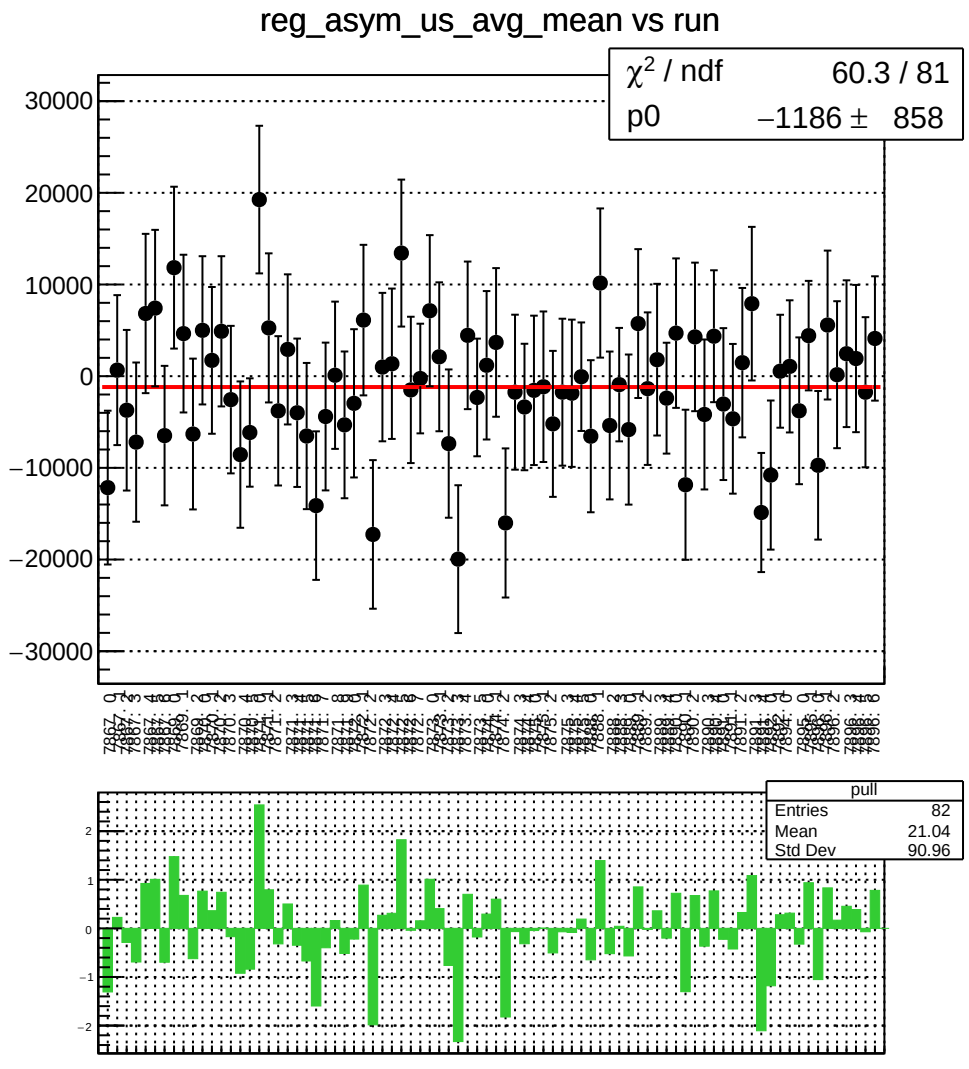
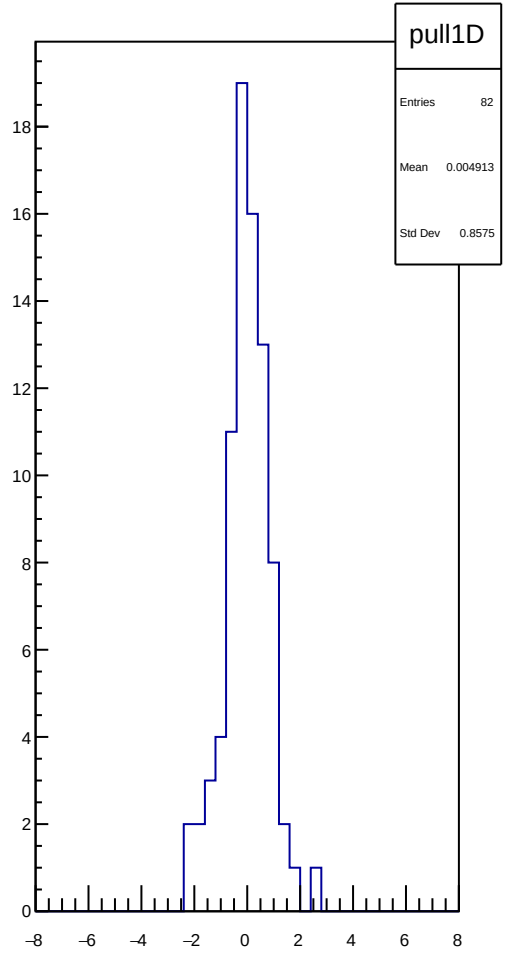
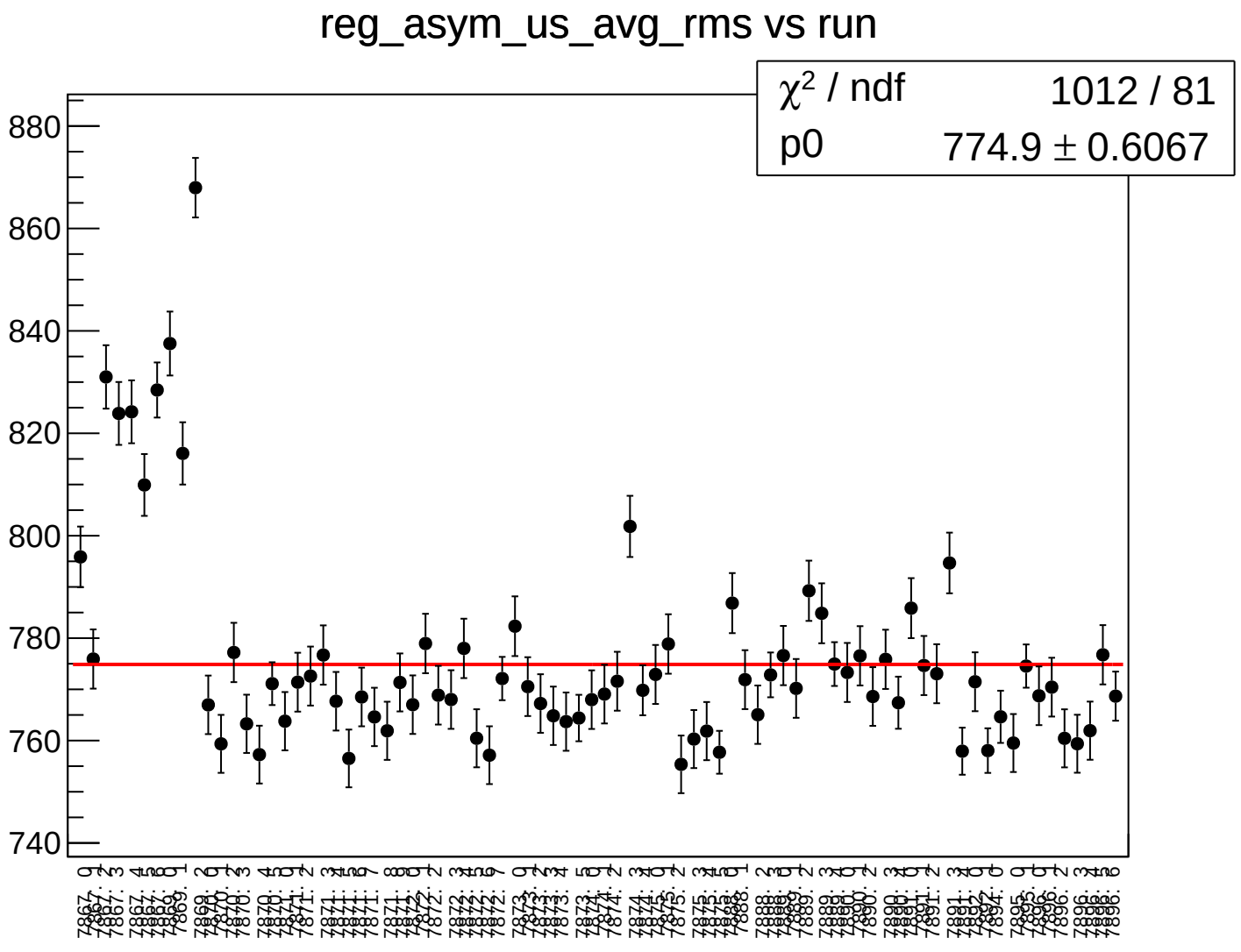
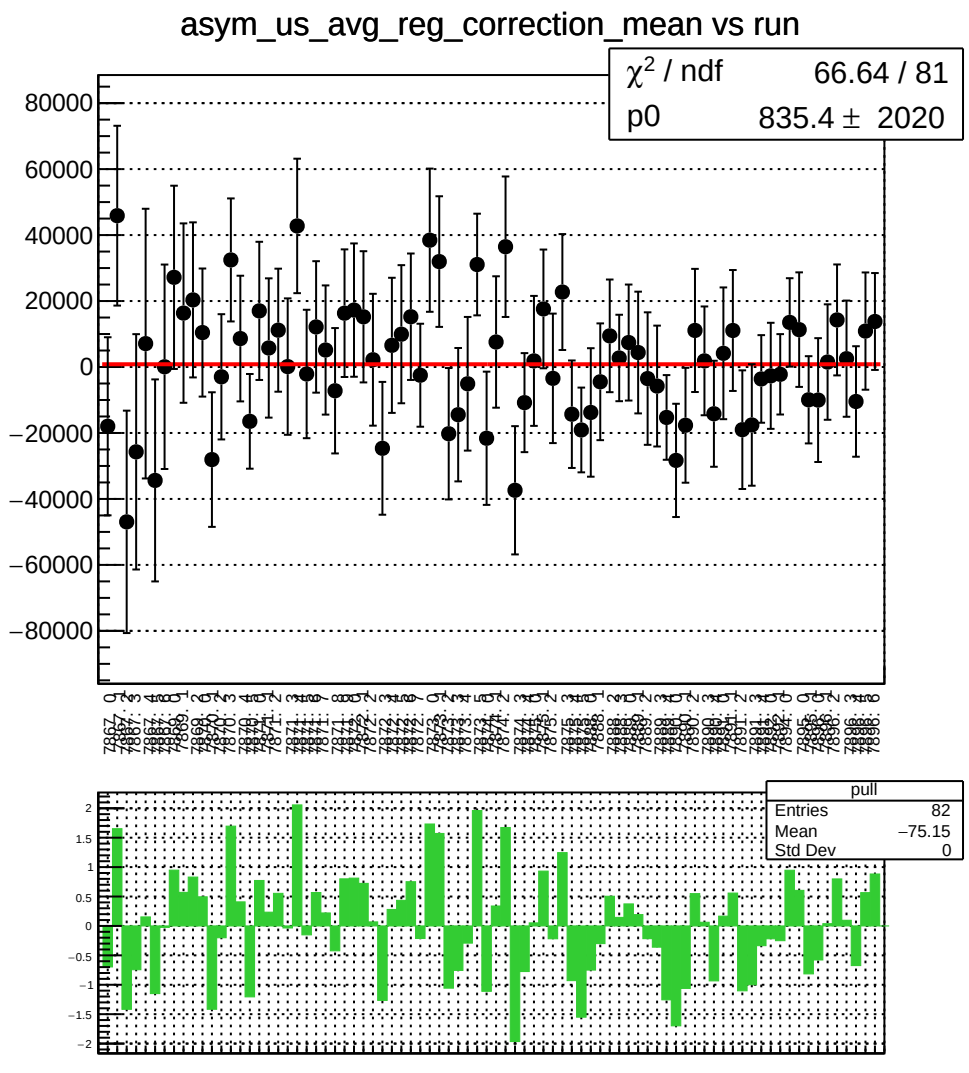
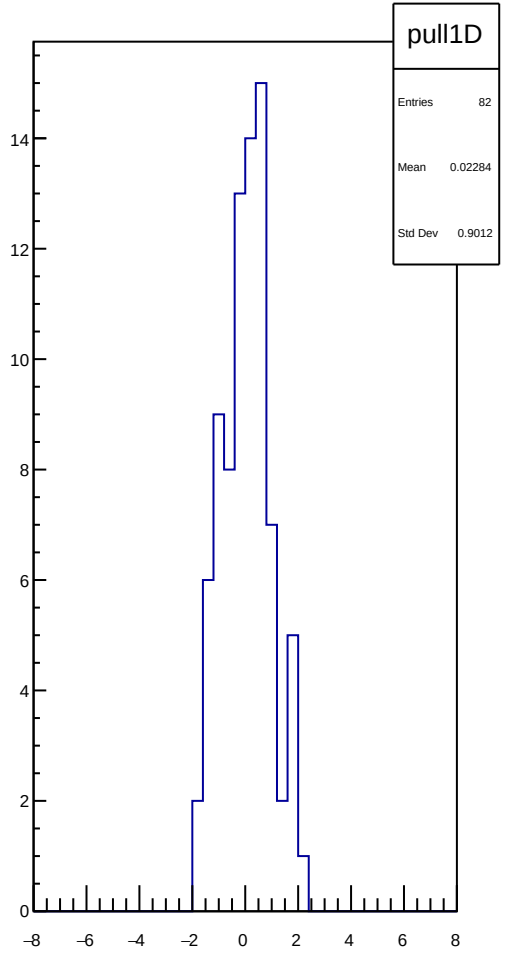
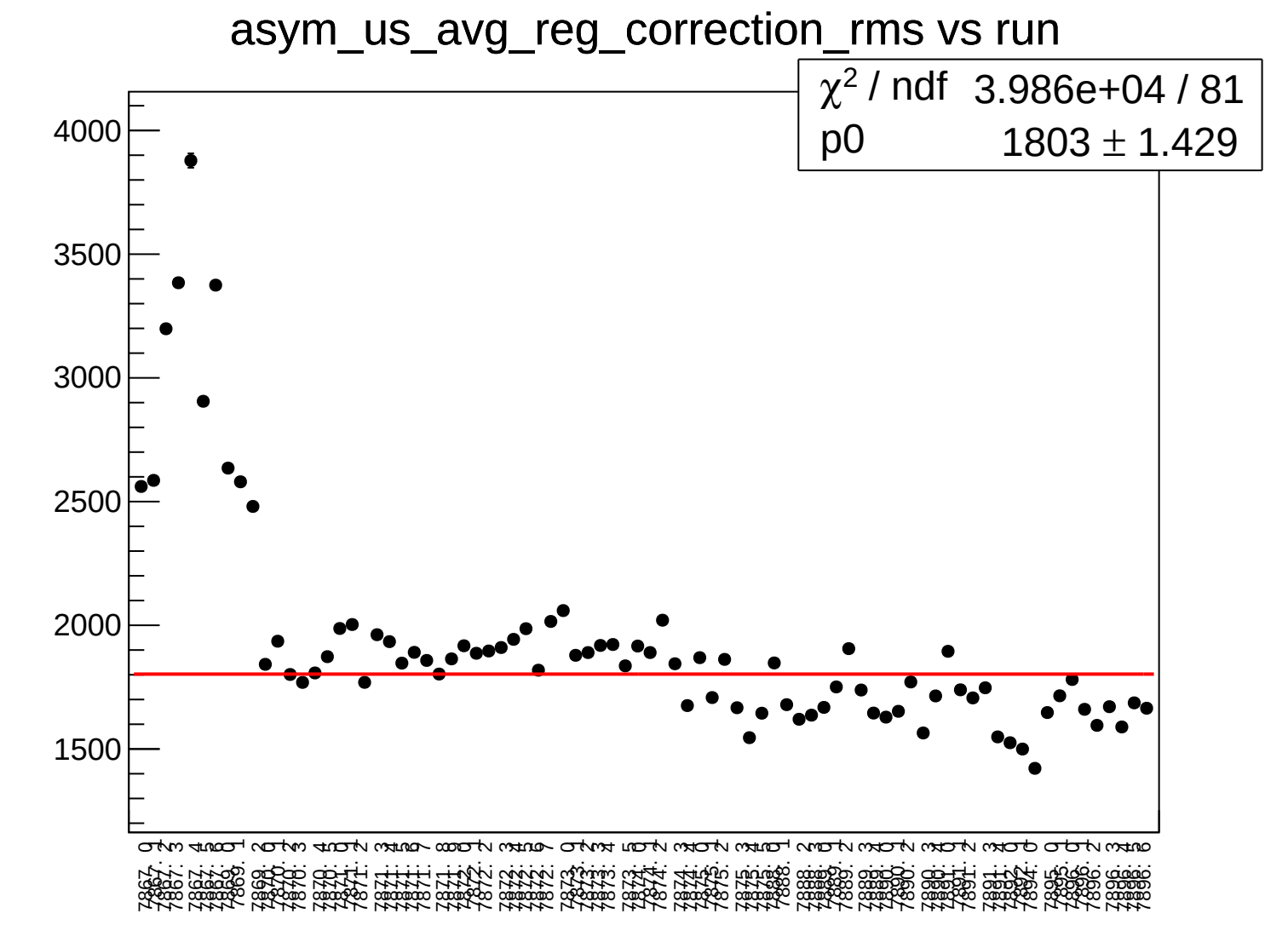

reg_asym_us_avg_mean vs run
χ² / ndf 60.3 / 81
p0 −1186 ± 858
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 21.04
Std Dev 90.96
2
1
0
−1
−2

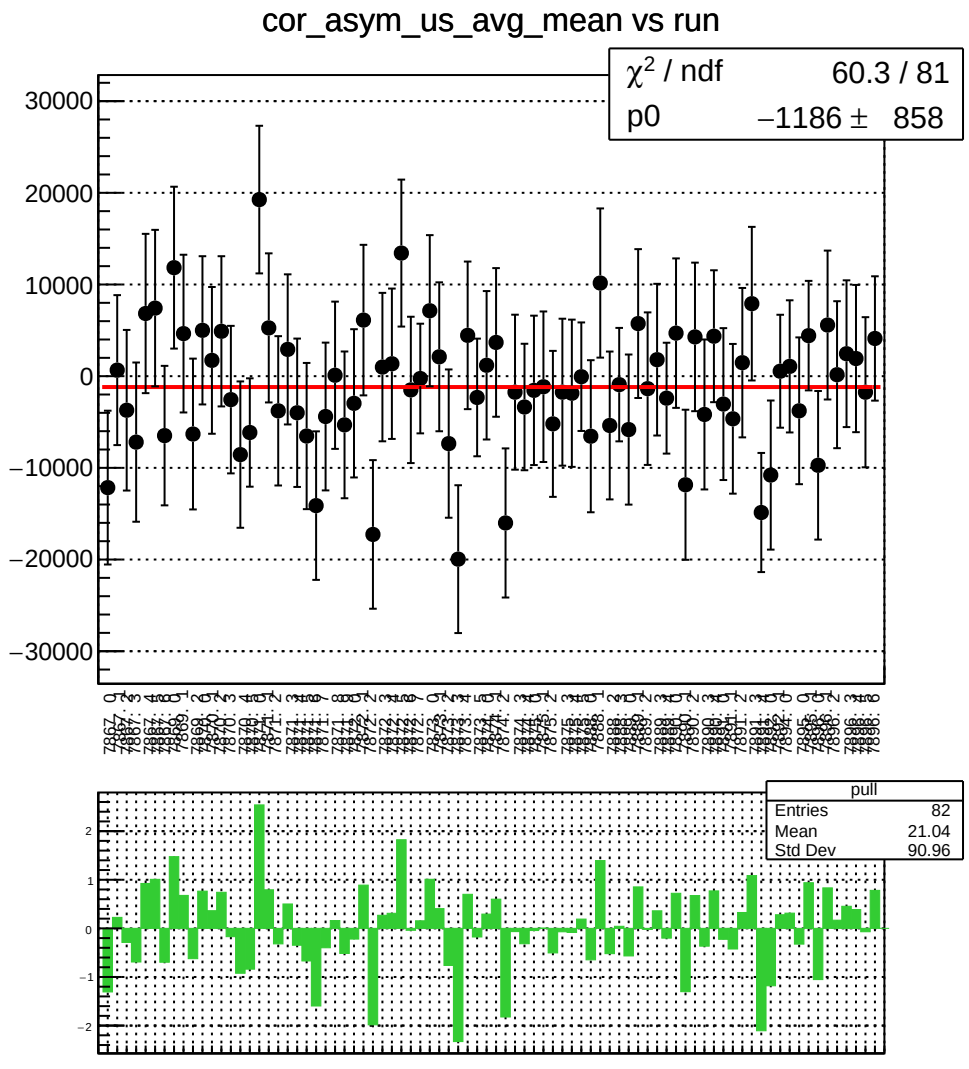

pull1D
Entries 82
Mean 0.004913
Std Dev 0.8575
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

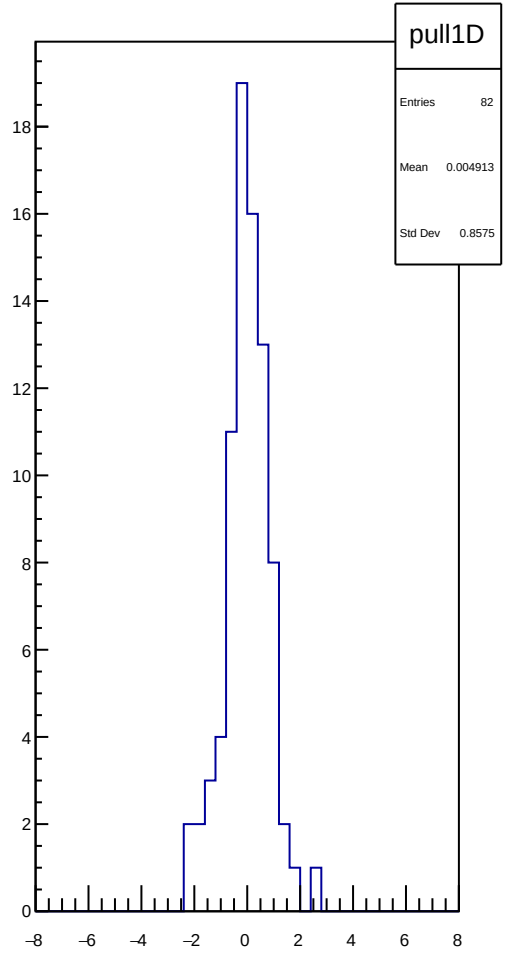

reg_asym_us_avg_rms vs run
χ² / ndf 1012 / 81
p0 774.9 ± 0.6067
880
860
840
820
800
780
760
740

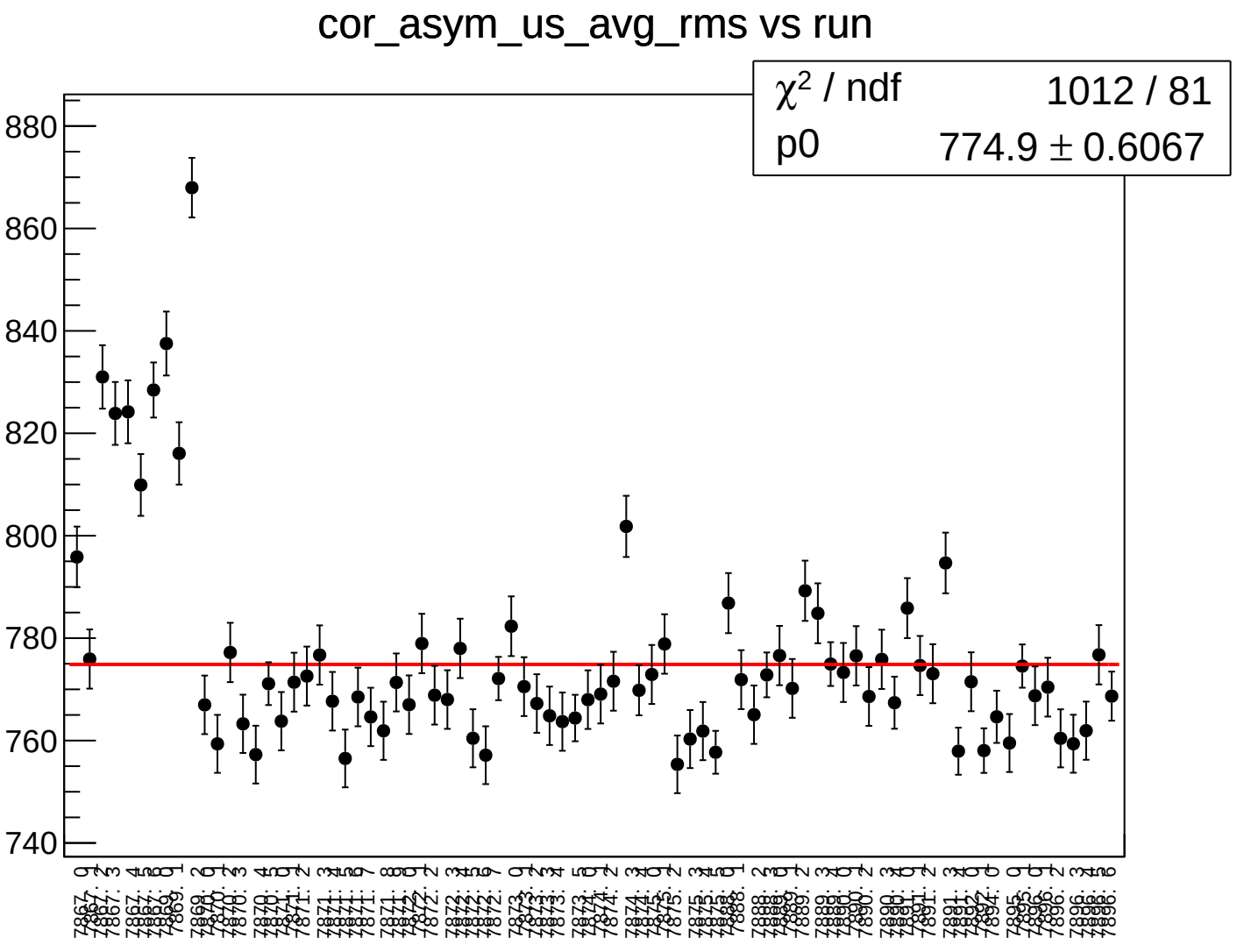

asym_us_avg_reg_correction_mean vs run
χ² / ndf 66.64 / 81
p0 835.4 ± 2020
pull
Entries 82
Mean −75.15
Std Dev 0

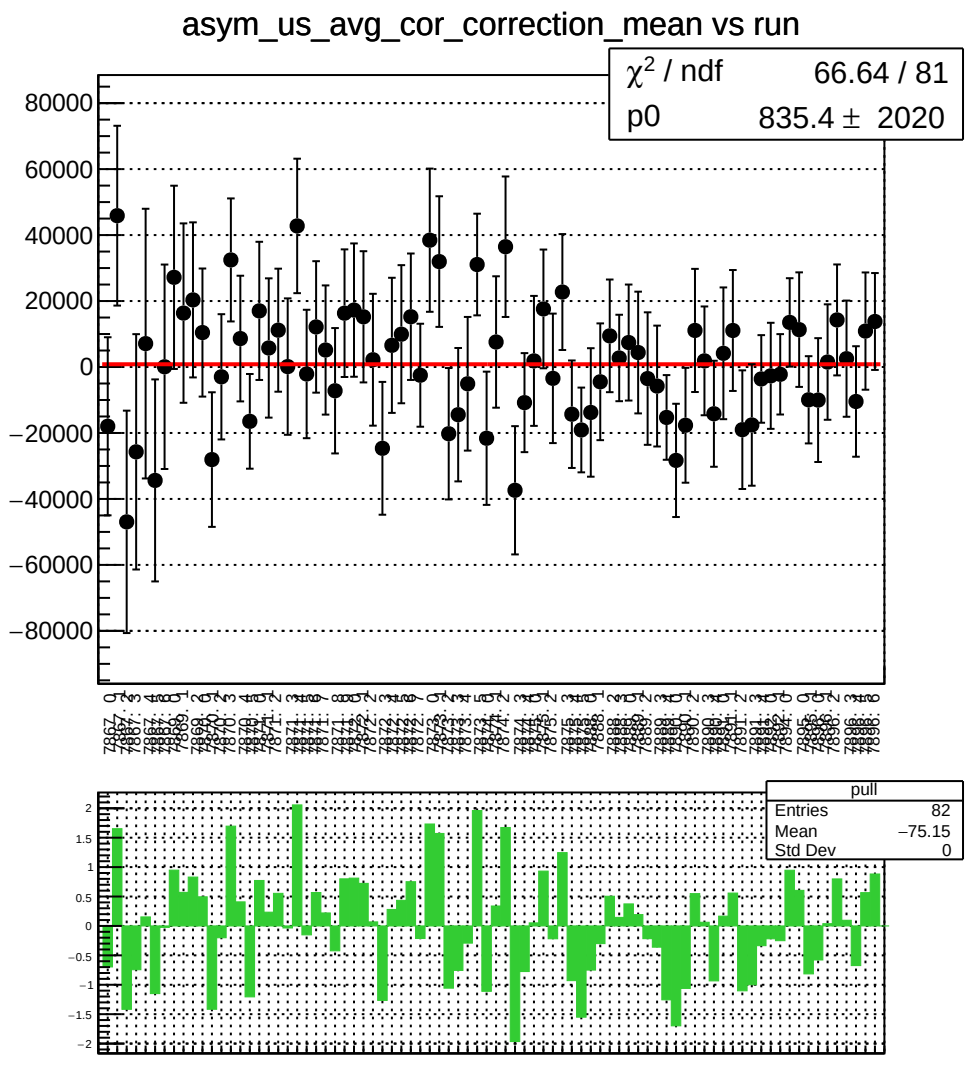

pull1D
Entries 82
Mean 0.02284
Std Dev 0.9012

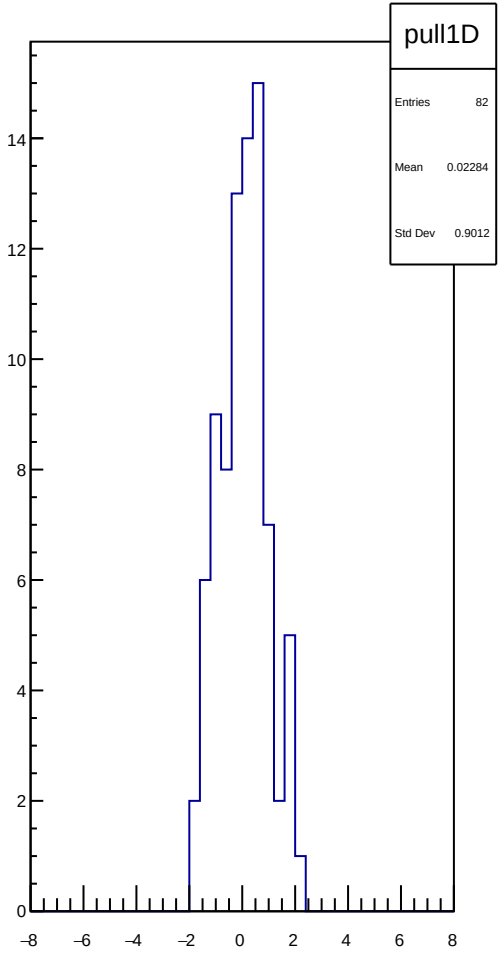

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3.986e+04 / 81
p0 1803 ± 1.429
4000
3500
3000
2500
2000
1500

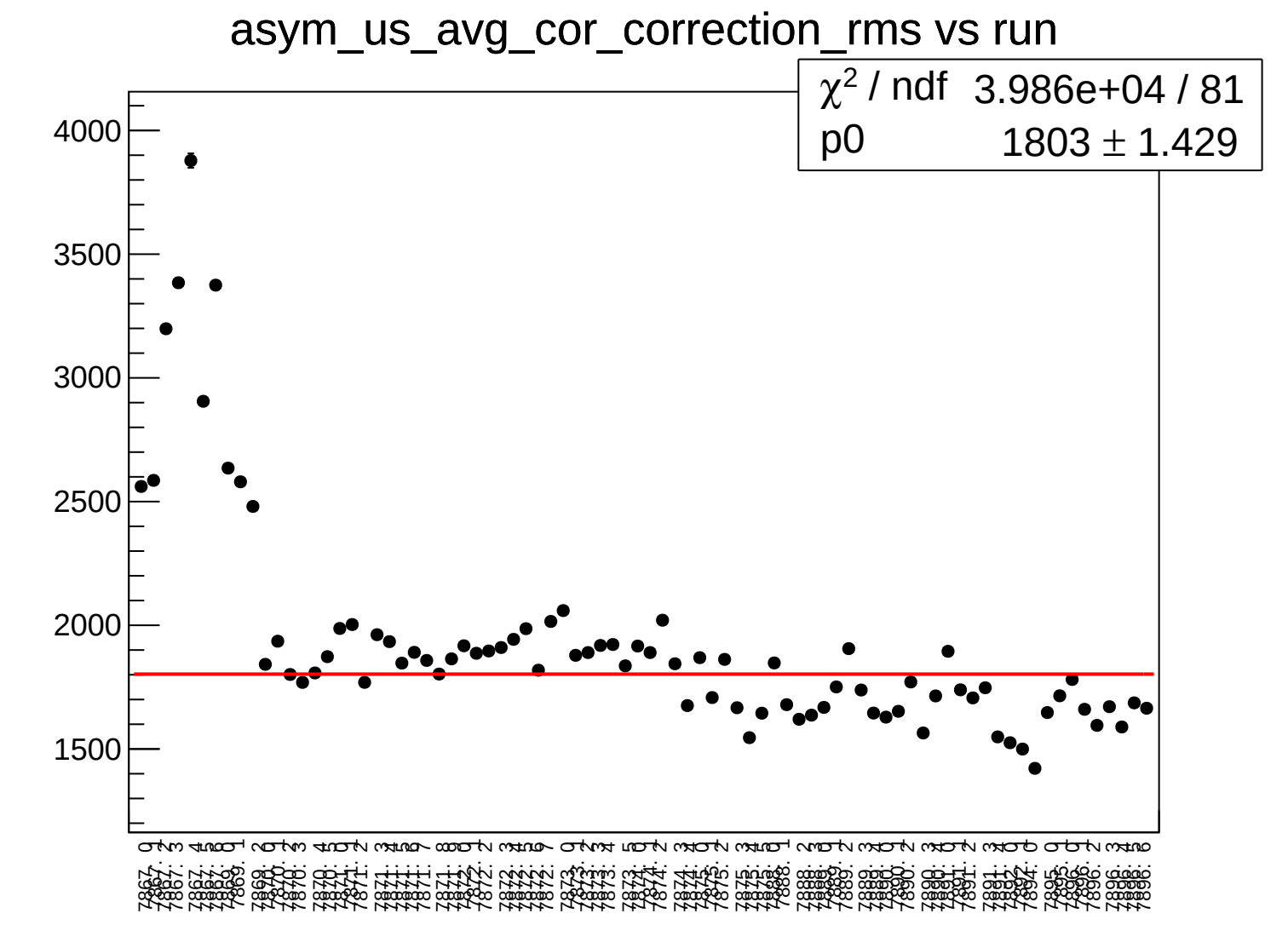

cor_asym_us_avg_mean vs run
χ² / ndf 60.3 / 81
p0 −1186 ± 858
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 21.04
Std Dev 90.96
2
1
0
−1
−2

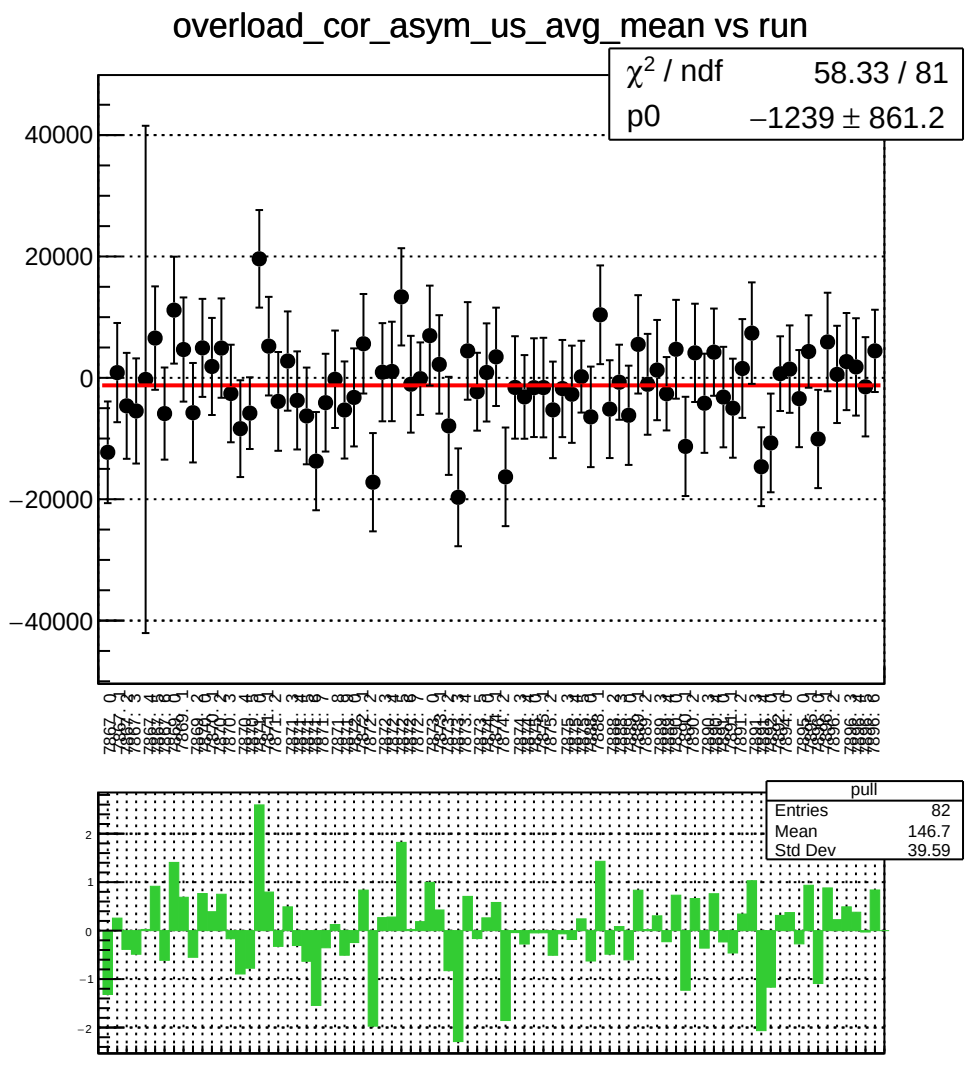

pull1D
Entries 82
Mean 0.004913
Std Dev 0.8575
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

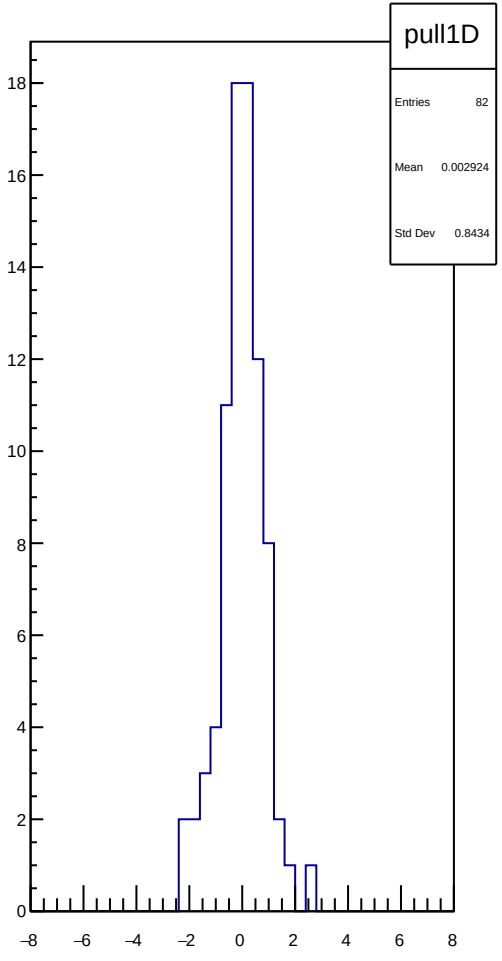

cor_asym_us_avg_rms vs run
χ^2 / ndf 1012 / 81
p0 774.9 ± 0.6067
880
860
840
820
800
780
760
740

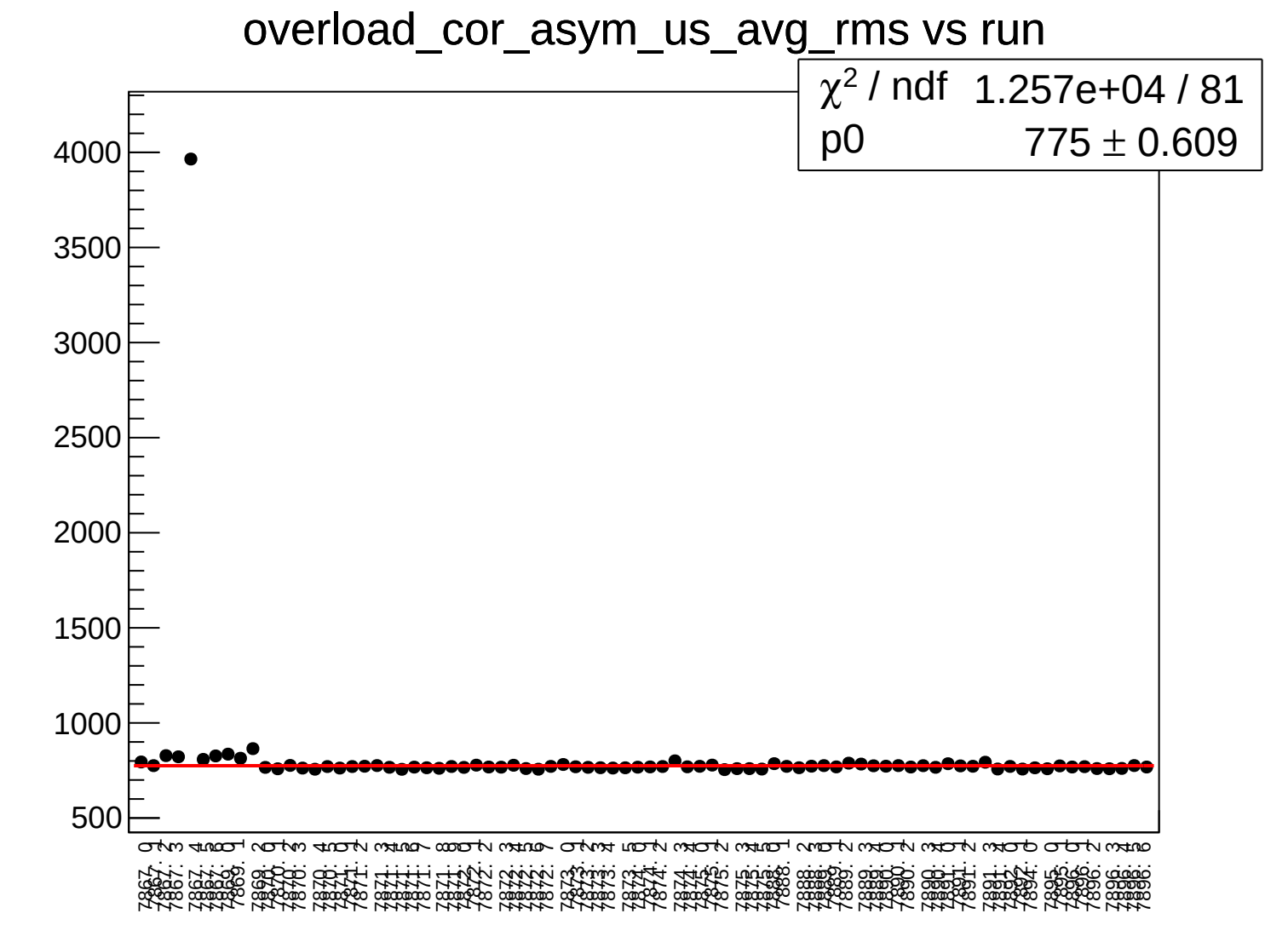

asym_us_avg_cor_correction_mean vs run
χ² / ndf 66.64 / 81
p0 835.4 ± 2020
pull
Entries 82
Mean −75.15
Std Dev 0

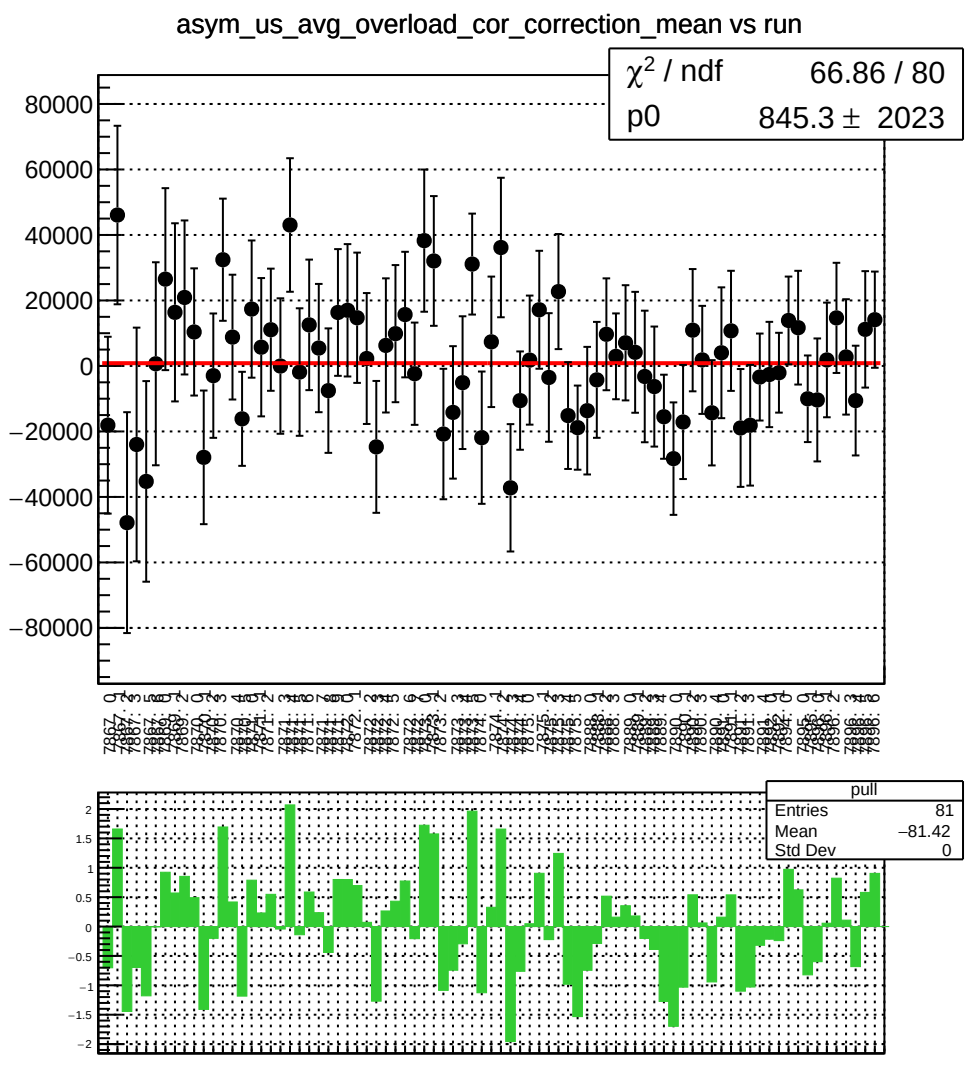

pull1D
Entries 82
Mean 0.02284
Std Dev 0.9012

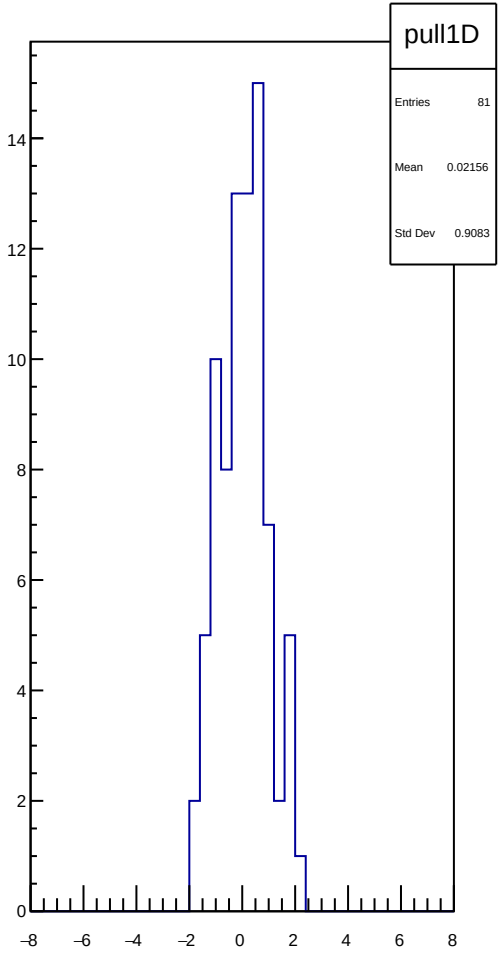

asym_us_avg_cor_correction_rms vs run
χ² / ndf 3.986e+04 / 81
p0 1803 ± 1.429
4000
3500
3000
2500
2000
1500

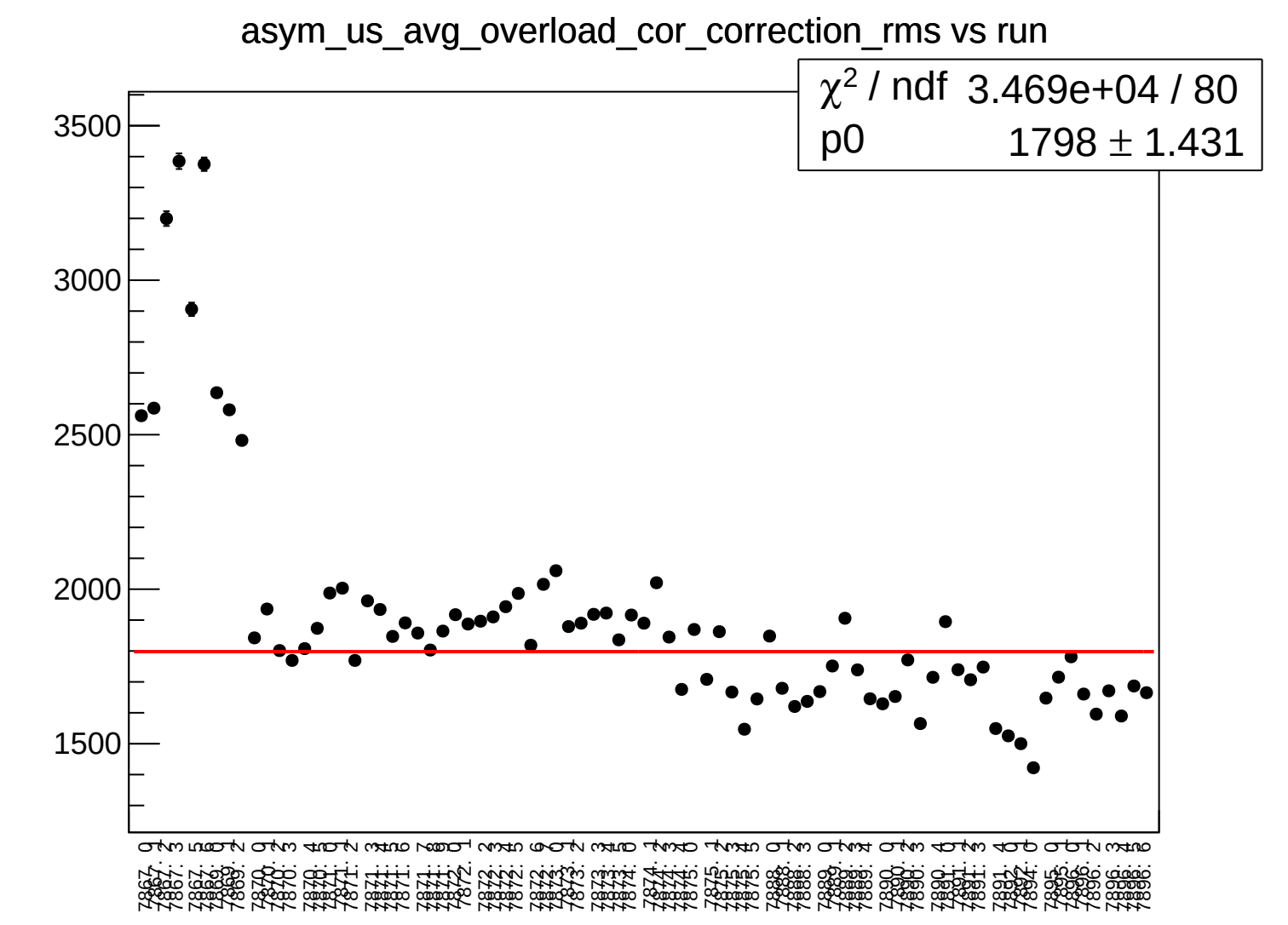

overload_cor_asym_us_avg_mean vs run
χ² / ndf 58.33 / 81
p0 −1239 ± 861.2
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 146.7
Std Dev 39.59
2
1
0
−1
−2

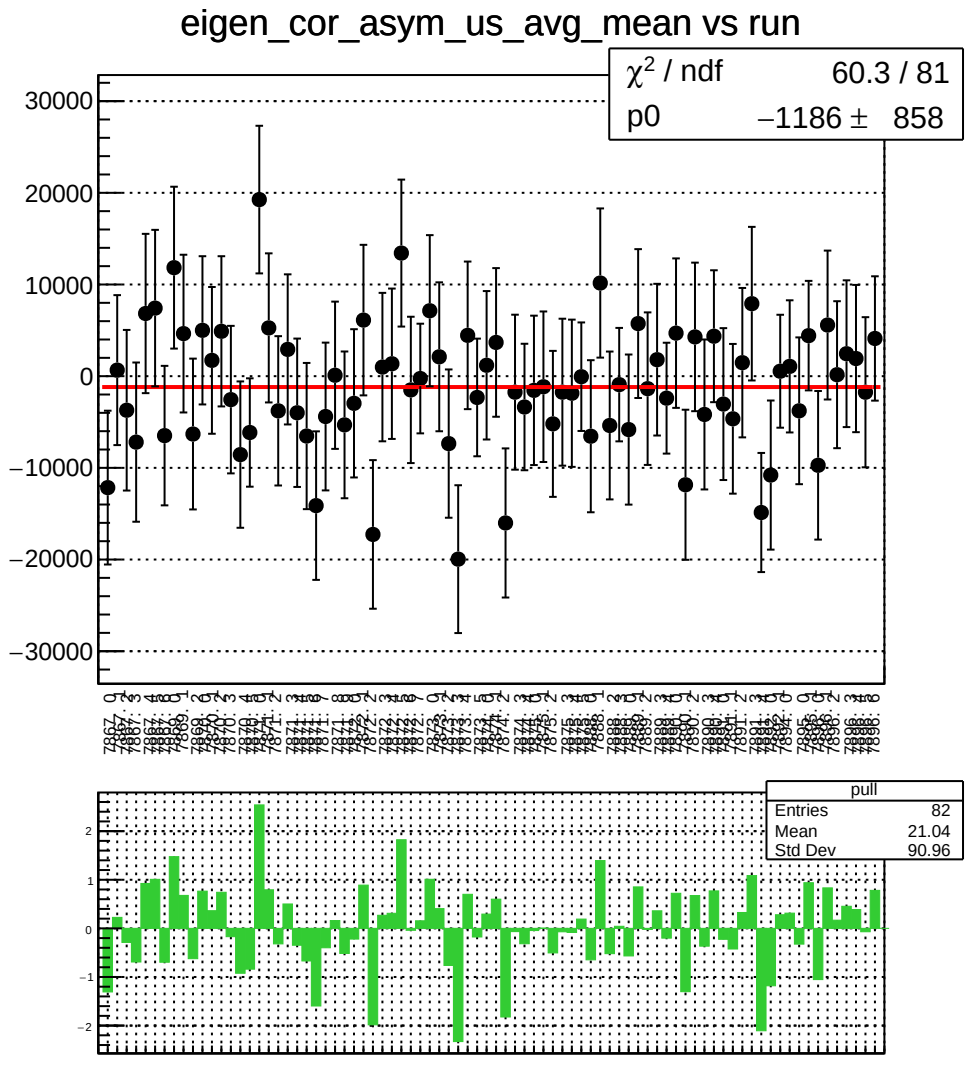

pull1D
Entries 82
Mean 0.002924
Std Dev 0.8434
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

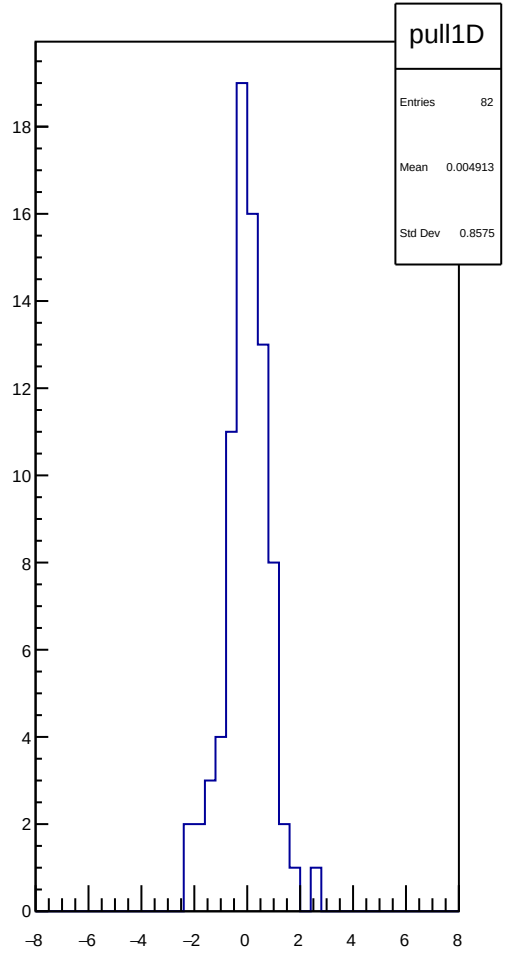

overload_cor_asym_us_avg_rms vs run
χ² / ndf 1.257e+04 / 81
p0 775 ± 0.609
4000
3500
3000
2500
2000
1500
1000
500

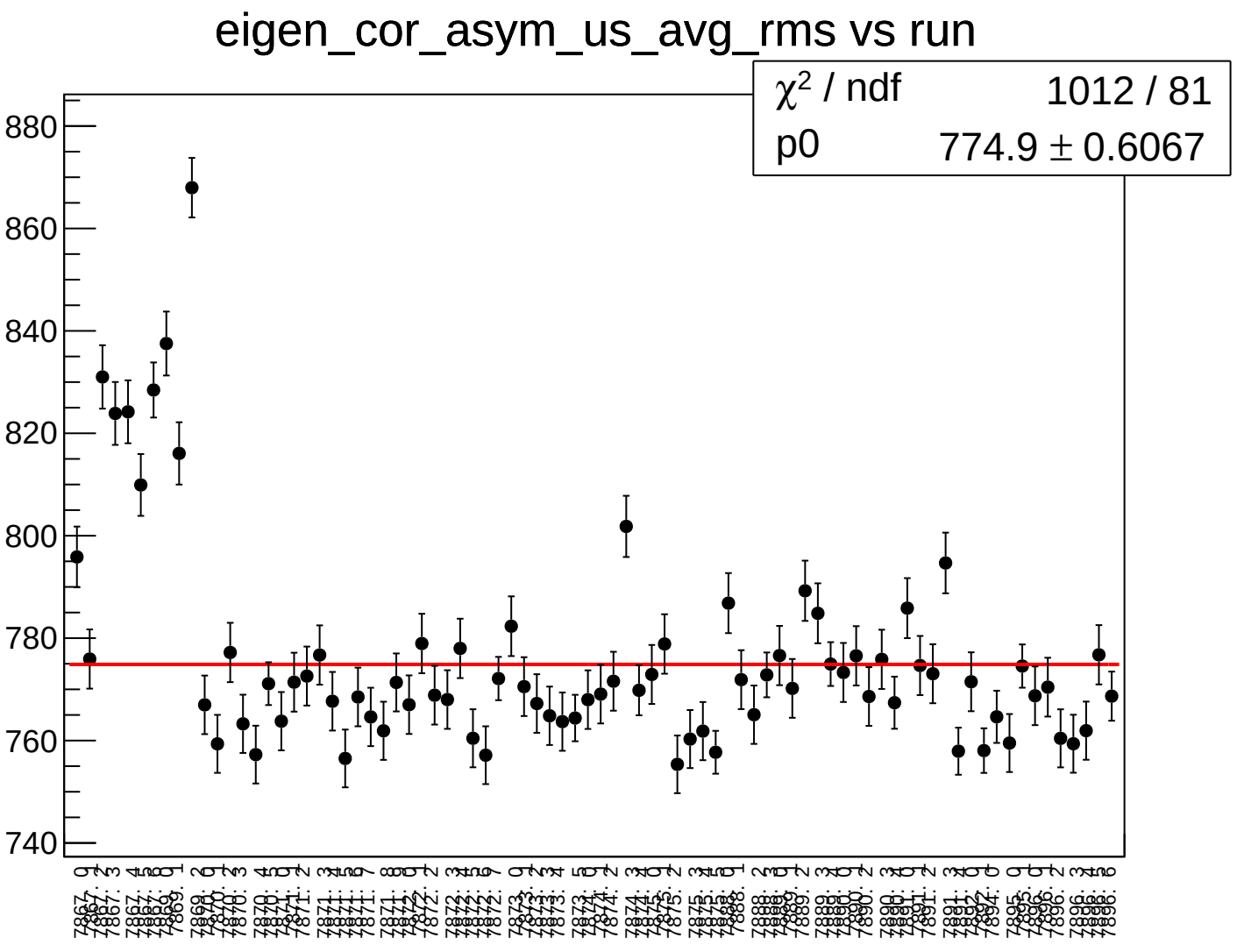

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 66.86 / 80
p0 845.3 ± 2023
pull
Entries 81
Mean −81.42
Std Dev 0

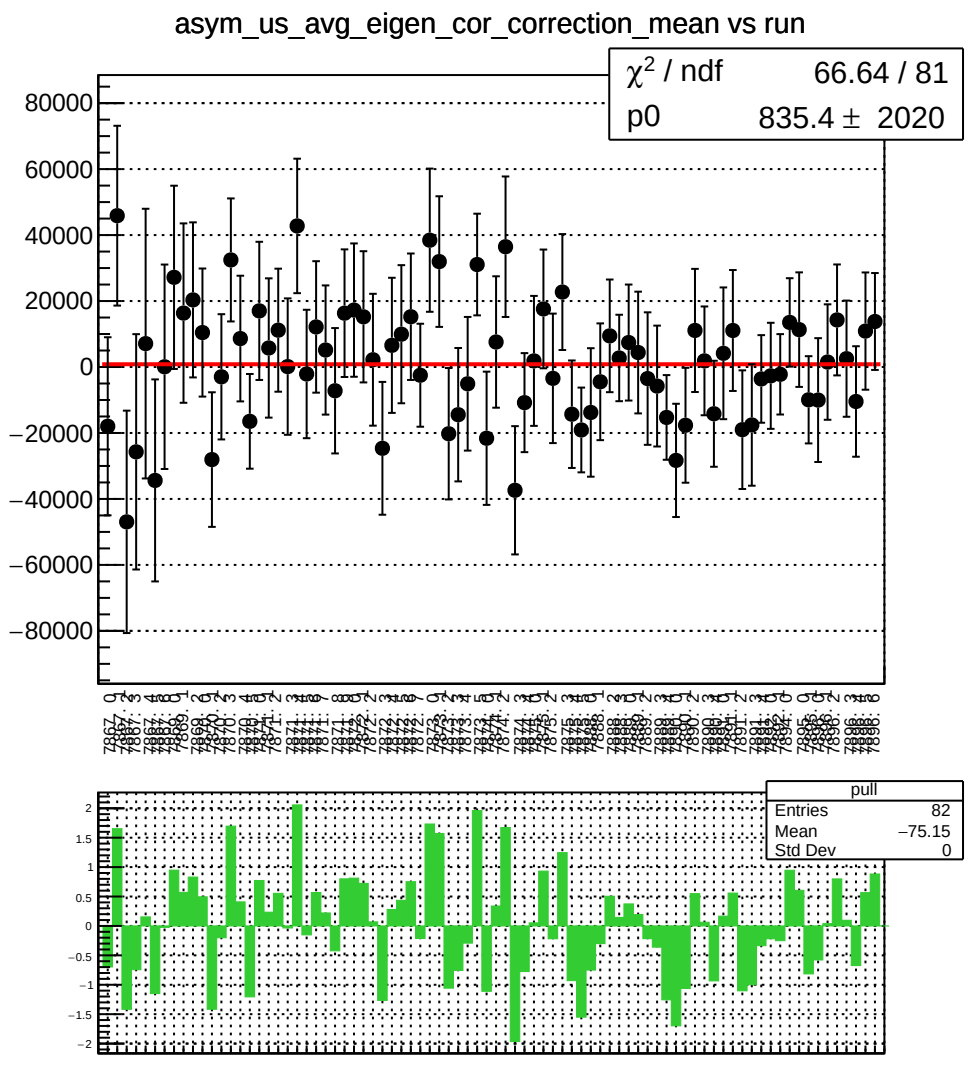

pull1D
Entries 81
Mean 0.02156
Std Dev 0.9083

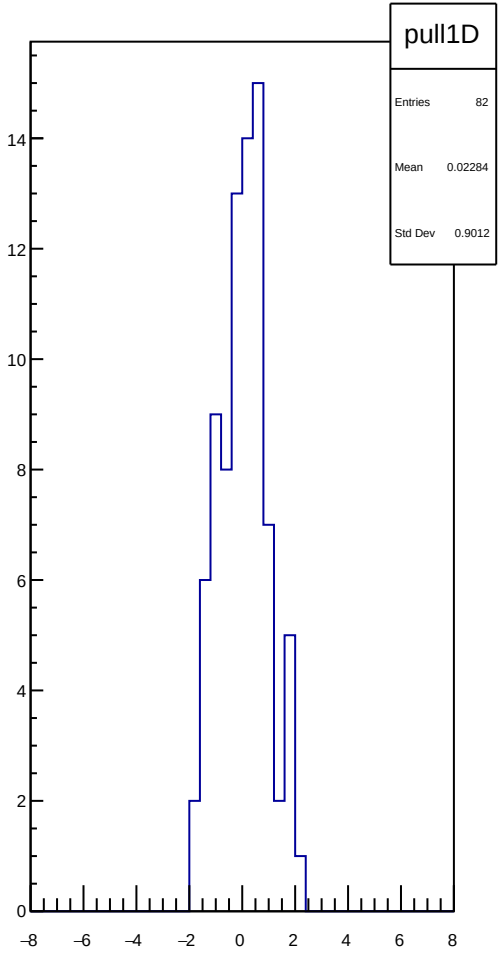

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3.469e+04 / 80
p0 1798 ± 1.431
3500
3000
2500
2000
1500

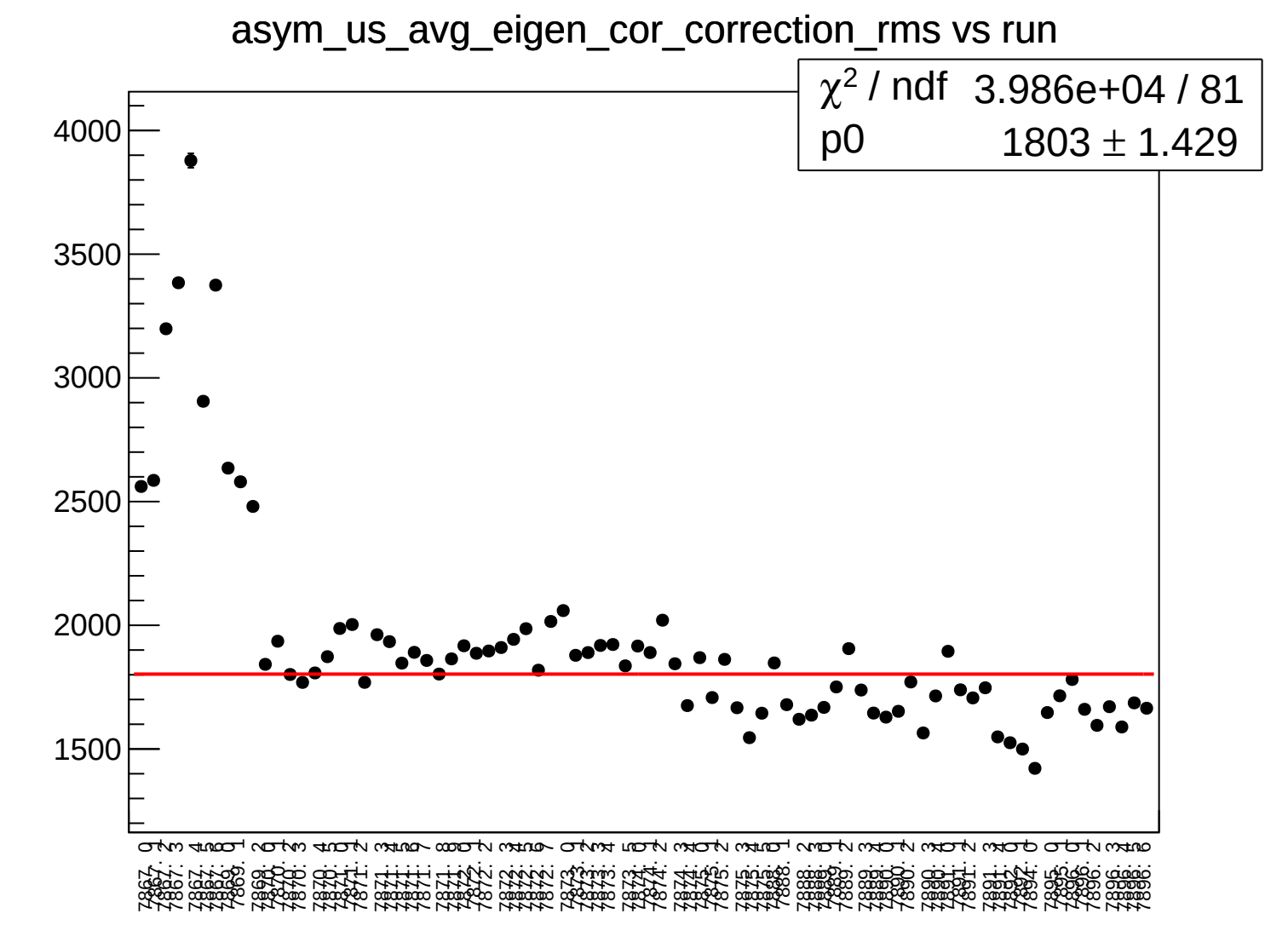

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 60.3 / 81
p0 −1186 ± 858
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 21.04
Std Dev 90.96
2
1
0
−1
−2

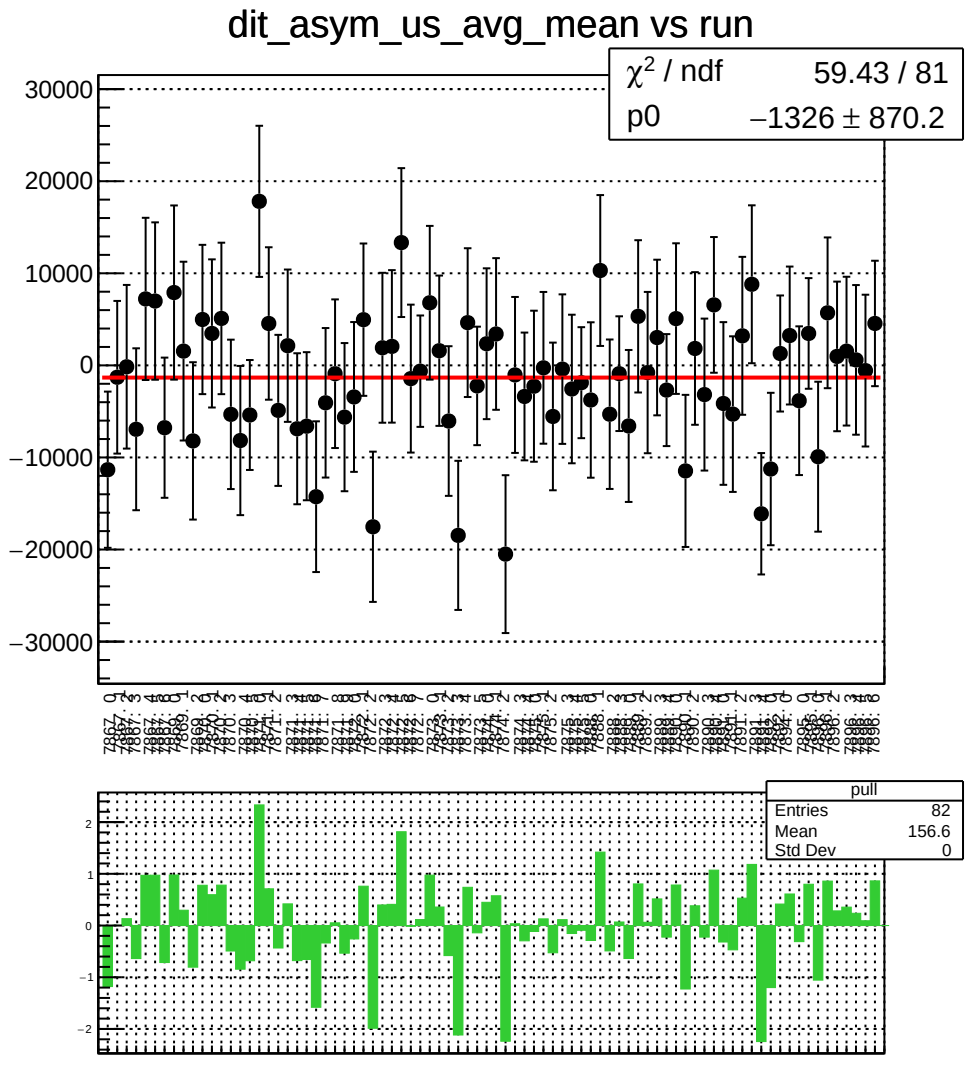

pull1D
Entries 82
Mean 0.004913
Std Dev 0.8575
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

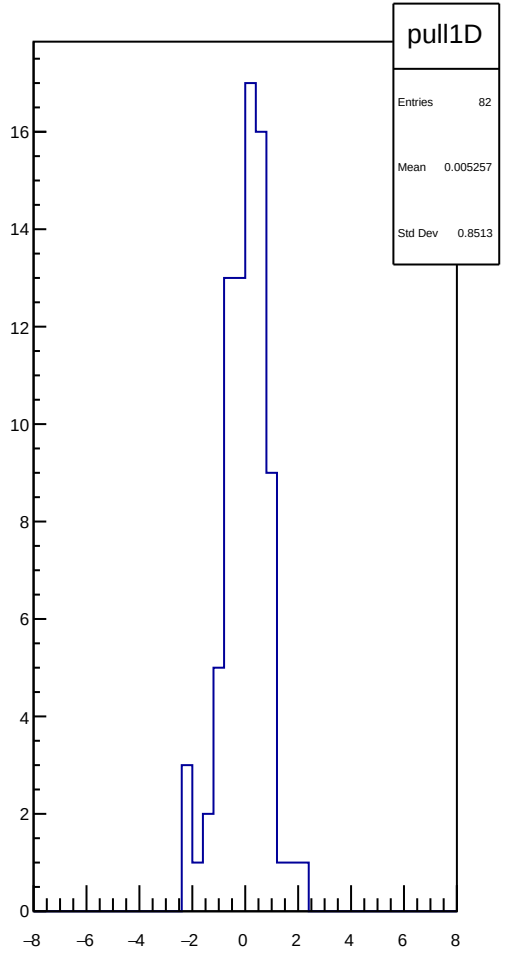

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 1012 / 81
p0 774.9 ± 0.6067
880
860
840
820
800
780
760
740

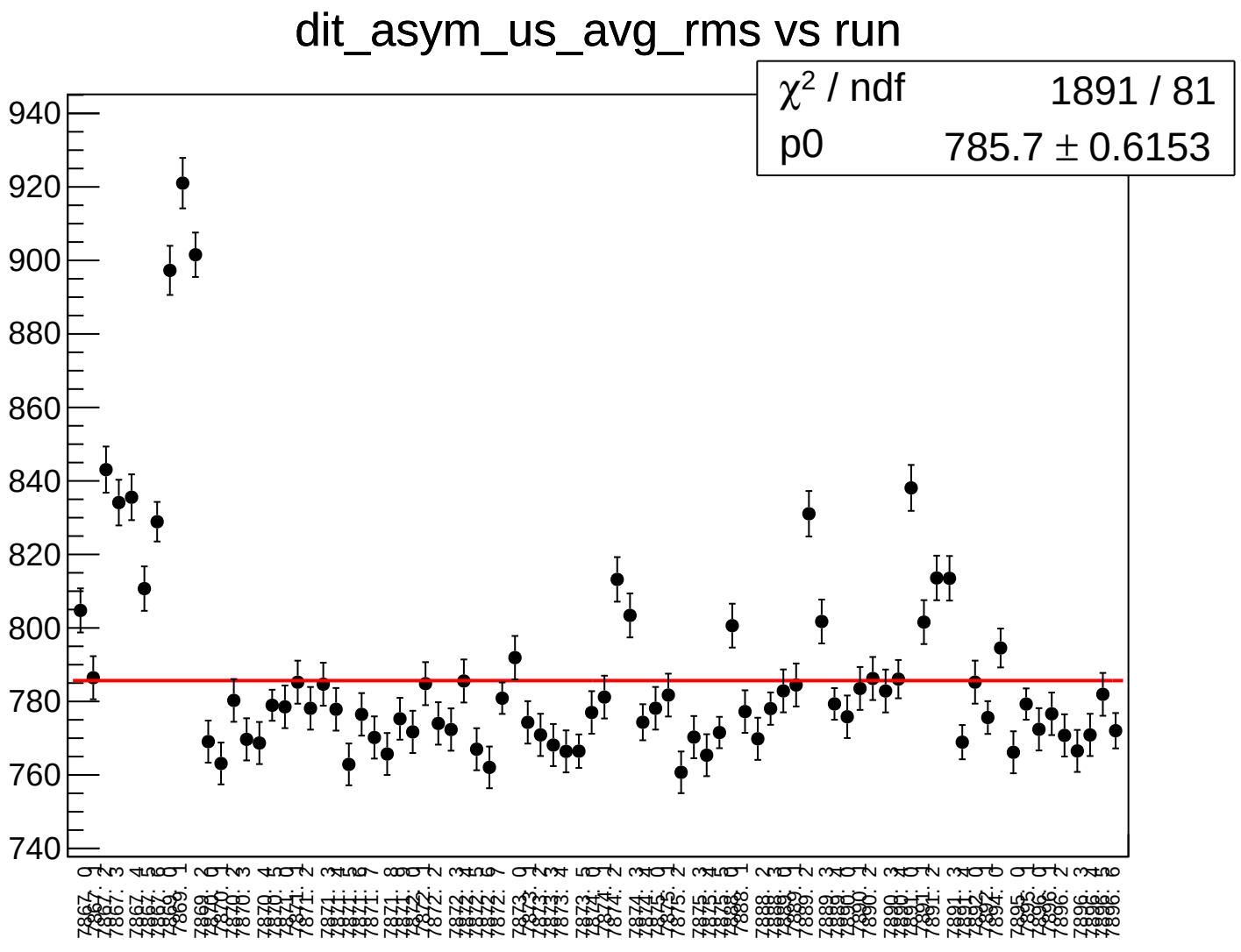

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.64 / 81
p0 835.4 ± 2020
pull
Entries 82
Mean −75.15
Std Dev 0

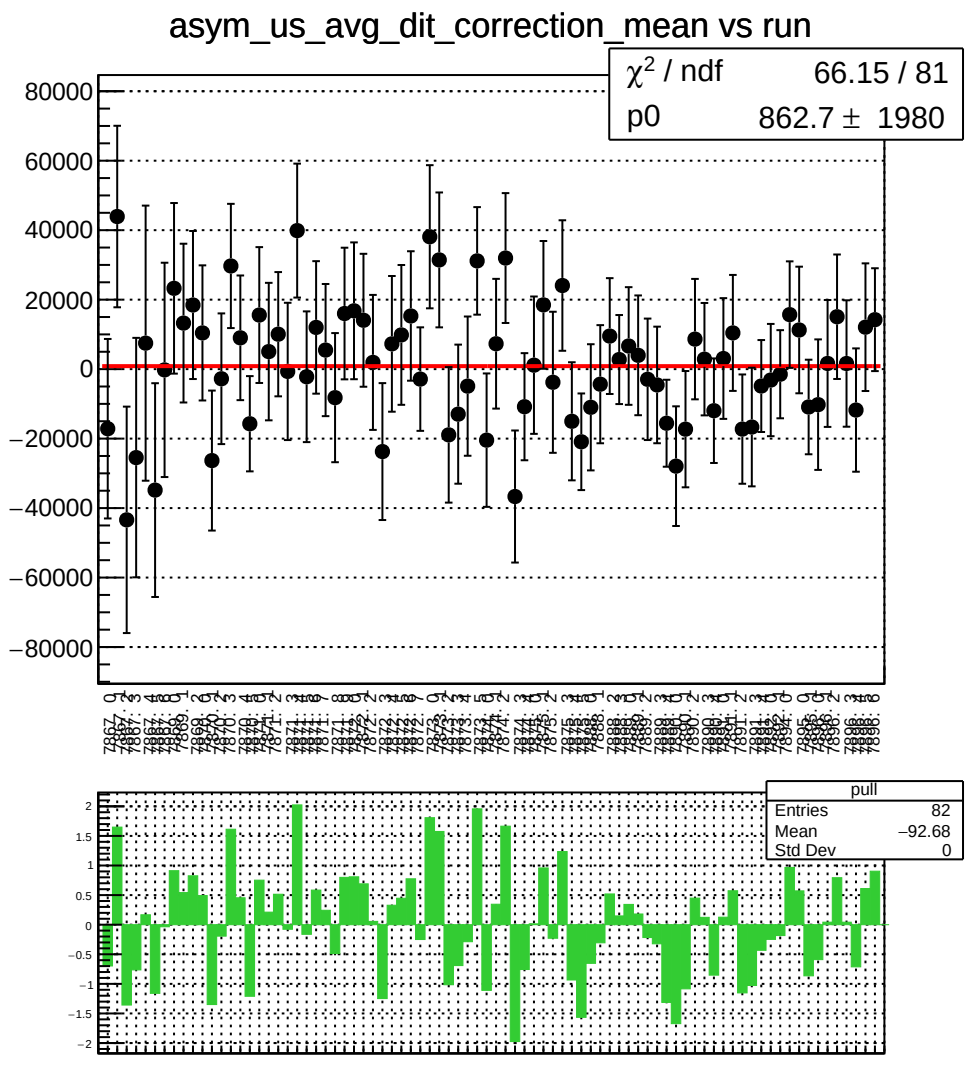

pull1D
Entries 82
Mean 0.02284
Std Dev 0.9012

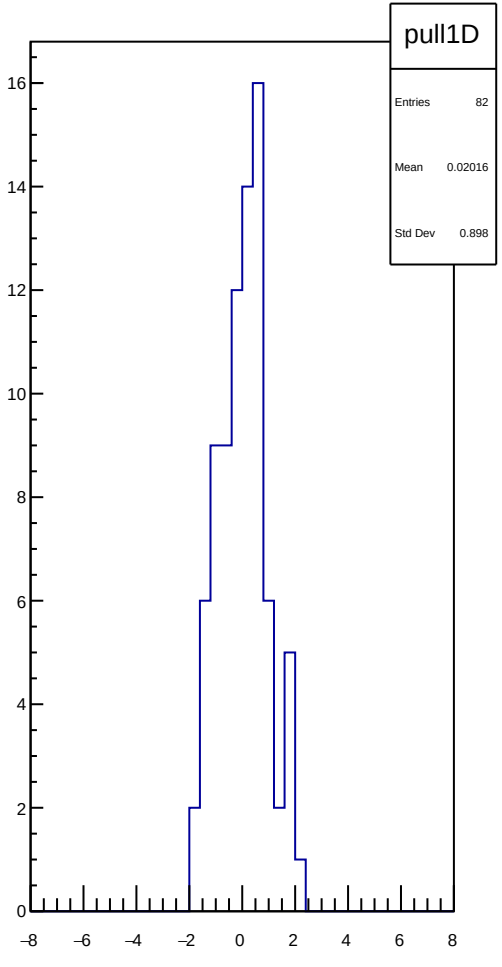

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.986e+04 / 81
p0 1803 ± 1.429
4000
3500
3000
2500
2000
1500

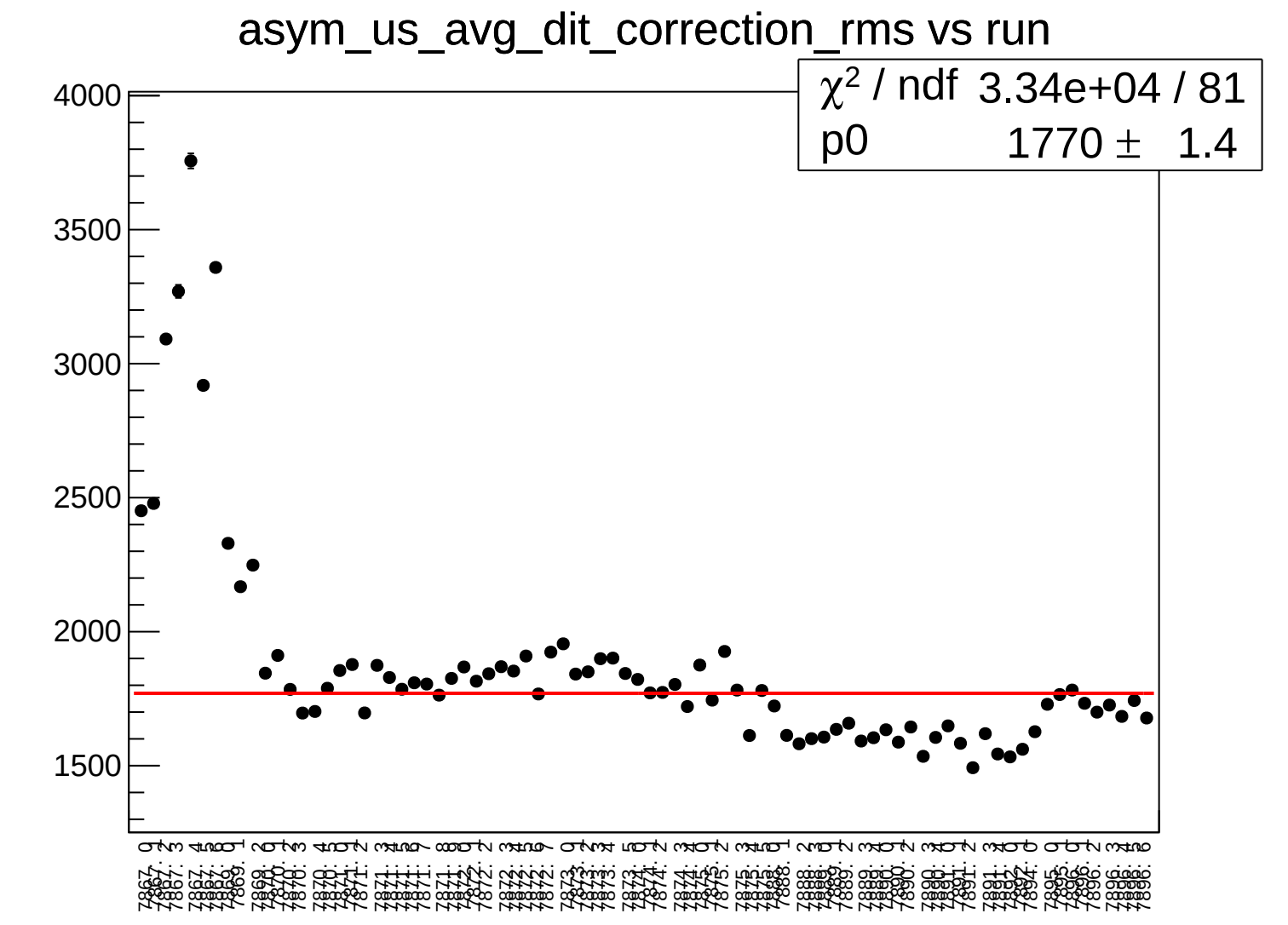

dit_asym_us_avg_mean vs run
χ² / ndf 59.43 / 81
p0 −1326 ± 870.2
pull
Entries 82
Mean 156.6
Std Dev 0

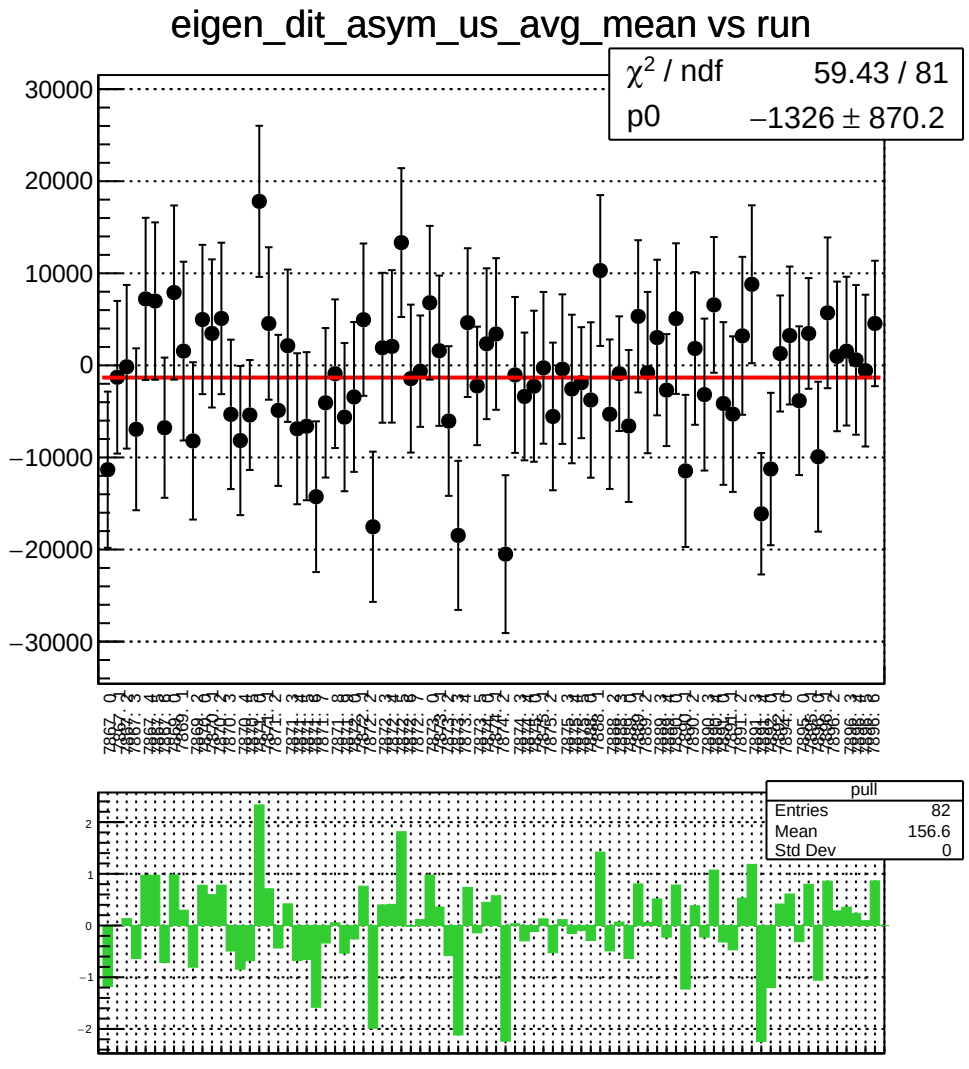

pull1D
Entries 82
Mean 0.005257
Std Dev 0.8513

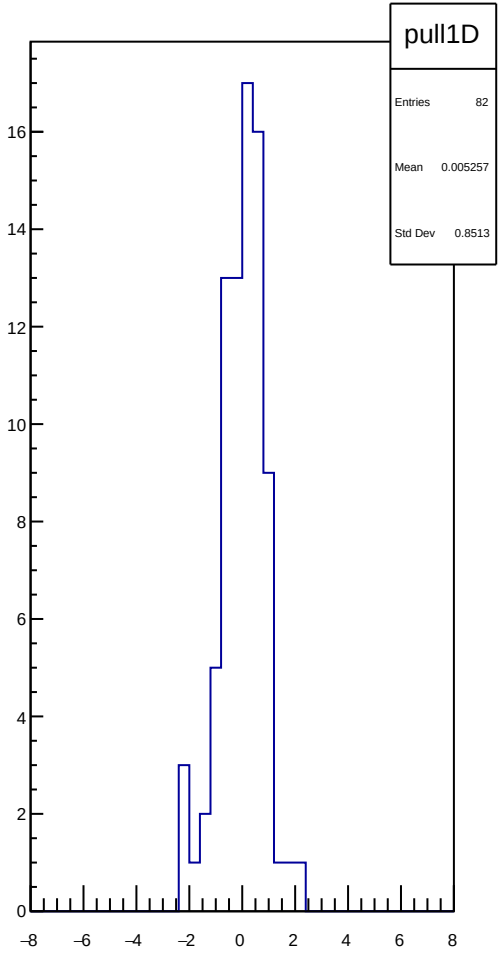

dit_asym_us_avg_rms vs run
χ² / ndf 1891 / 81
p0 785.7 ± 0.6153
940
920
900
880
860
840
820
800
780
760
740

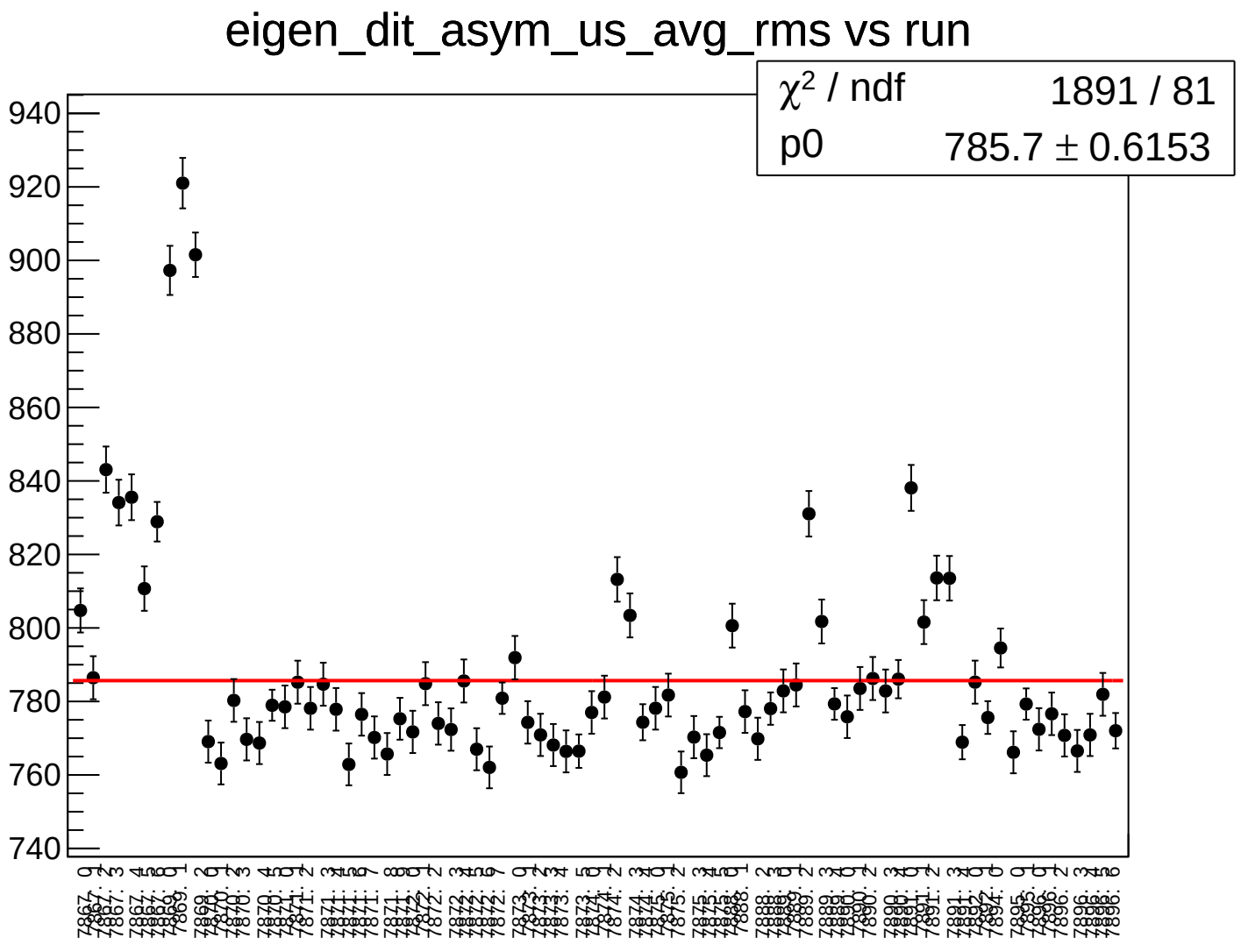

asym_us_avg_dit_correction_mean vs run
χ² / ndf 66.15 / 81
p0 862.7 ± 1980
pull
Entries 82
Mean −92.68
Std Dev 0

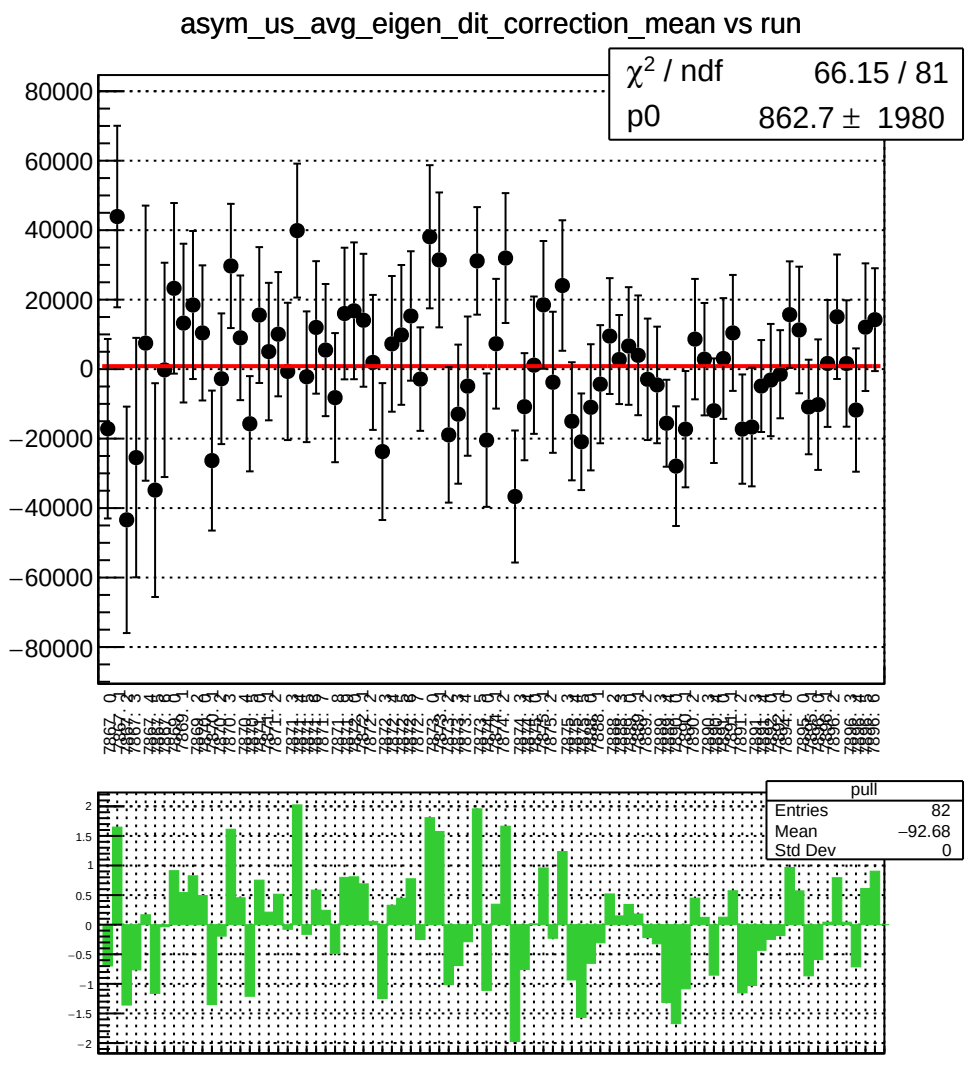

pull1D
Entries 82
Mean 0.02016
Std Dev 0.898

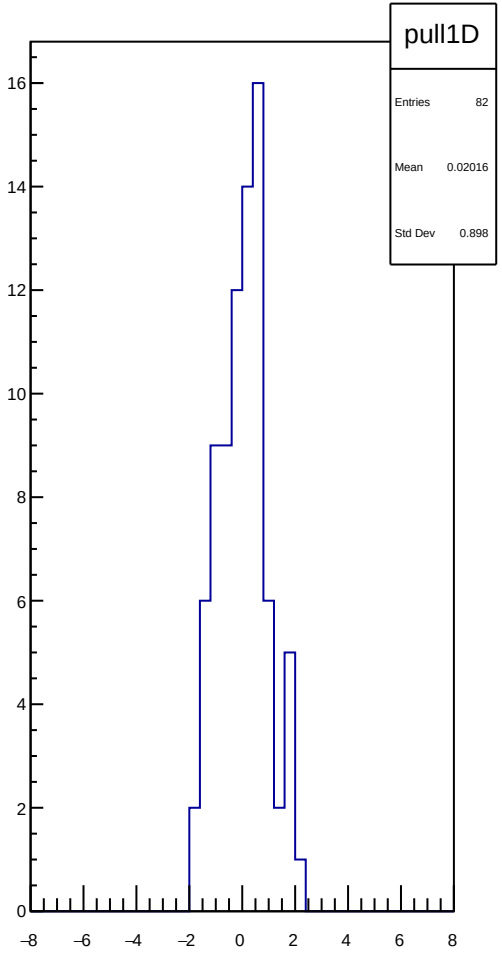

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3.34e+04 / 81
p0 1770 ± 1.4
4000
3500
3000
2500
2000
1500

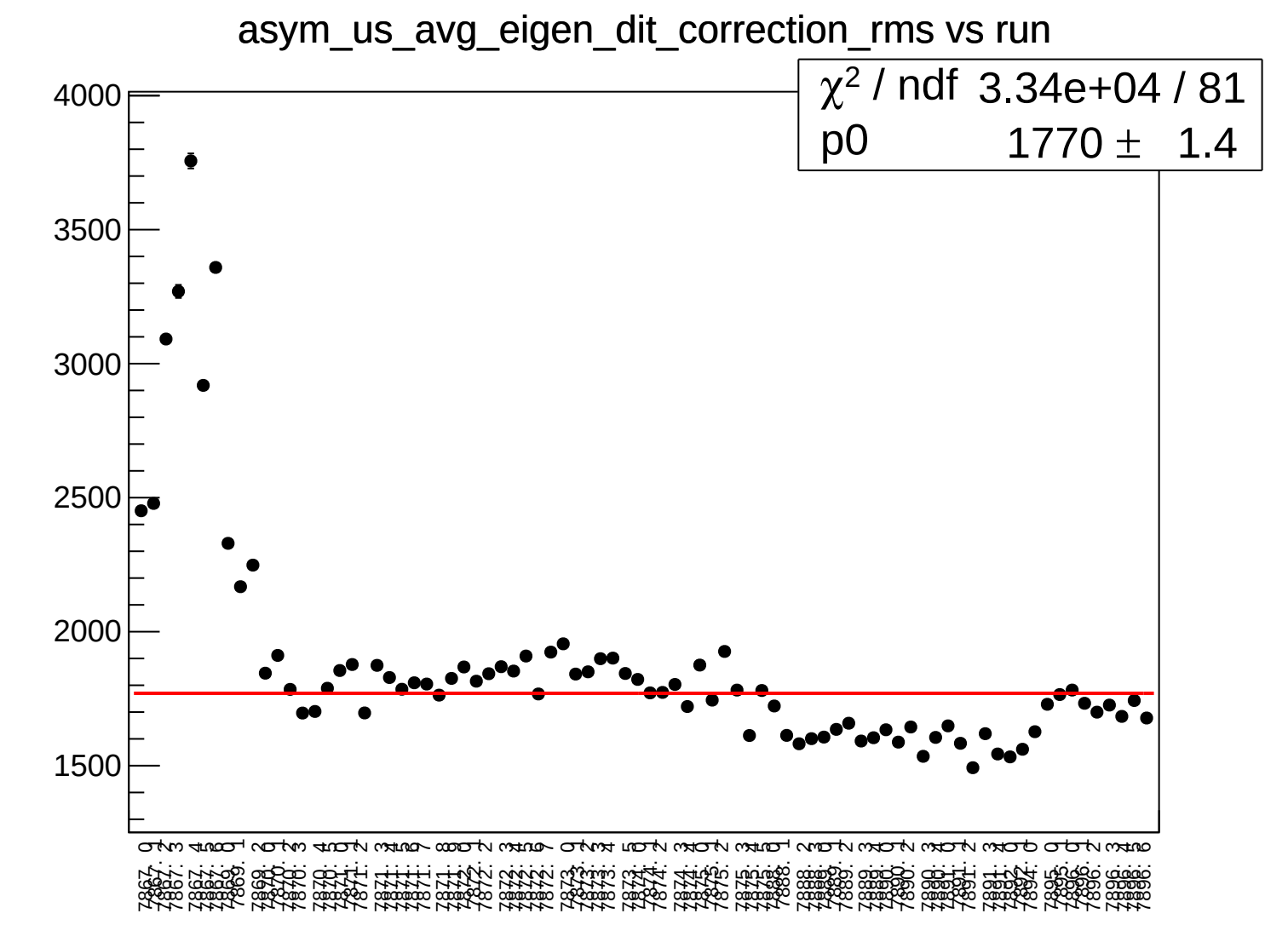

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 59.43 / 81
p0 −1326 ± 870.2
pull
Entries 82
Mean 156.6
Std Dev 0

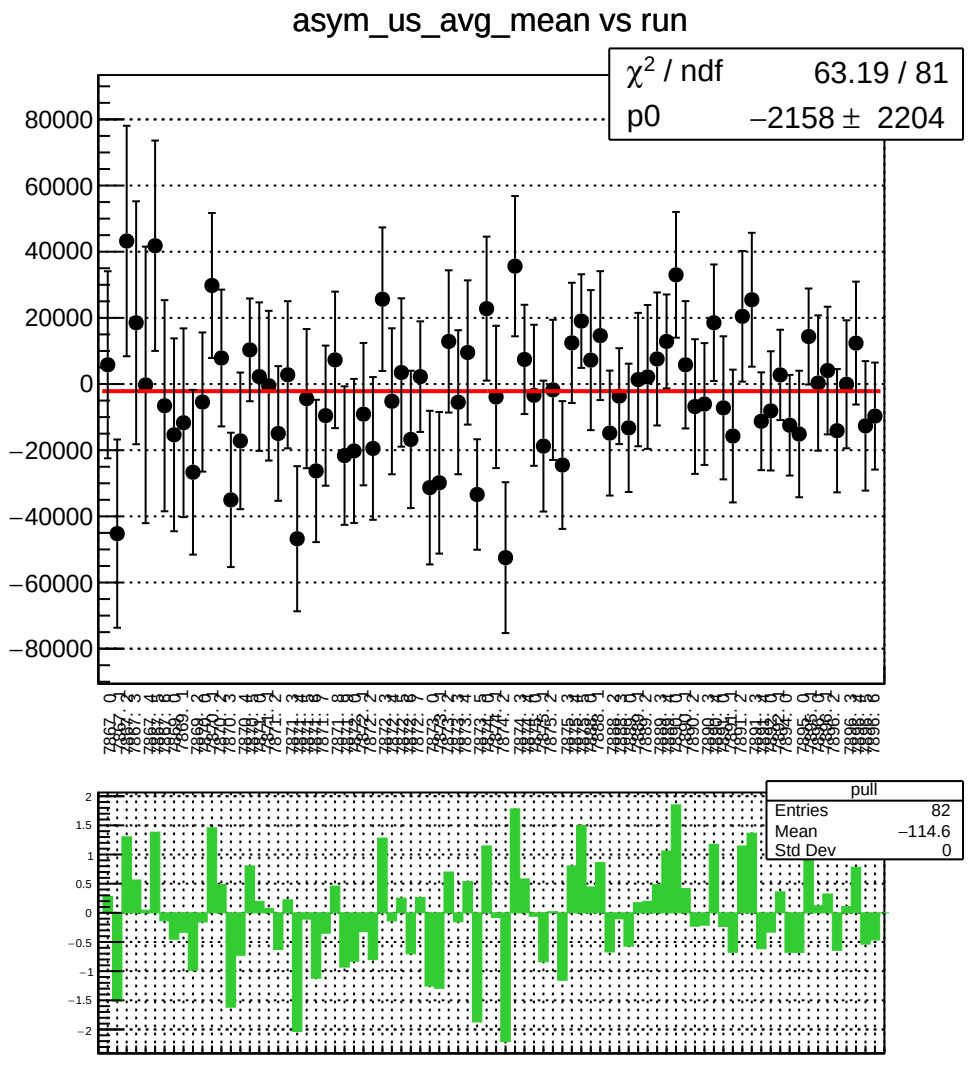

pull1D
Entries 82
Mean 0.005257
Std Dev 0.8513

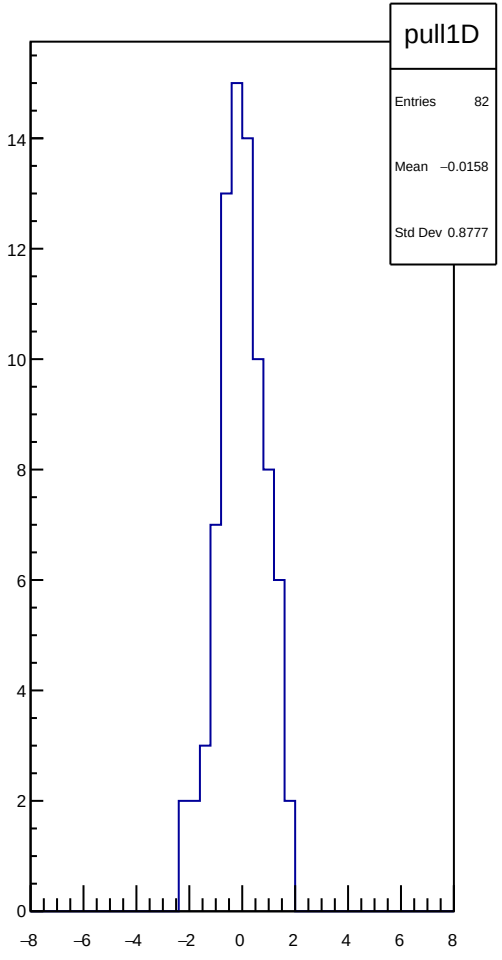

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 1891 / 81
p0 785.7 ± 0.6153
940
920
900
880
860
840
820
800
780
760
740

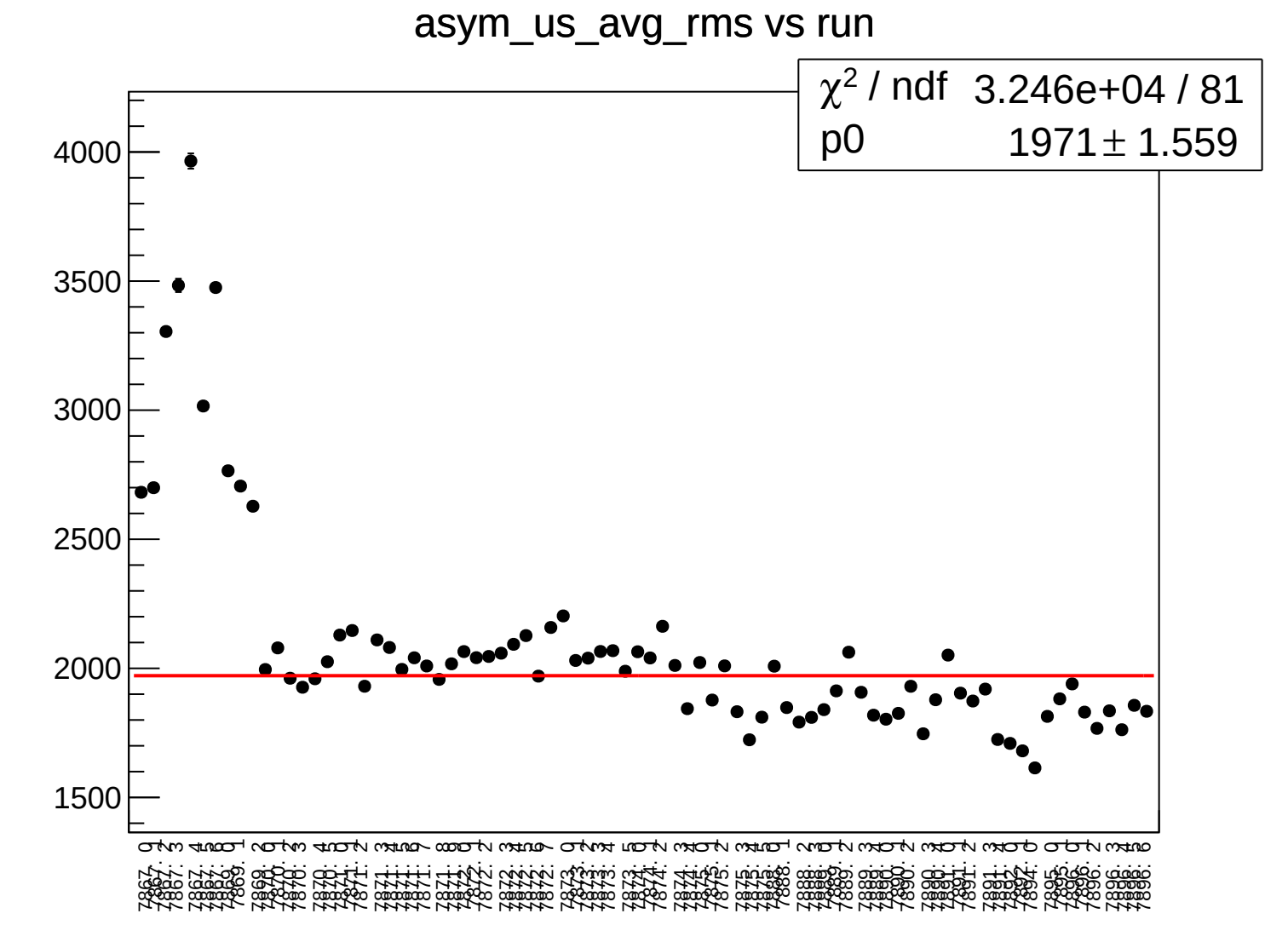

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.15 / 81
p0 862.7 ± 1980
pull
Entries 82
Mean −92.68
Std Dev 0

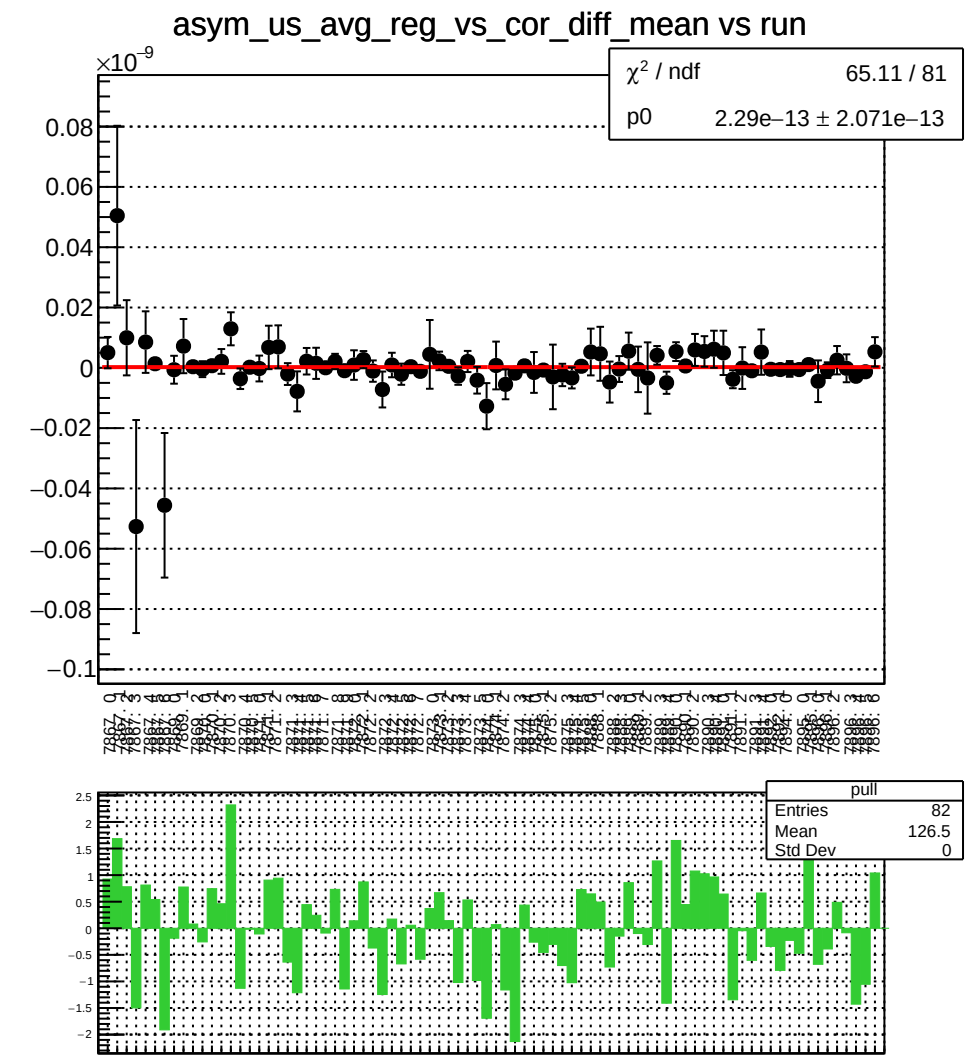

pull1D
Entries 82
Mean 0.02016
Std Dev 0.898

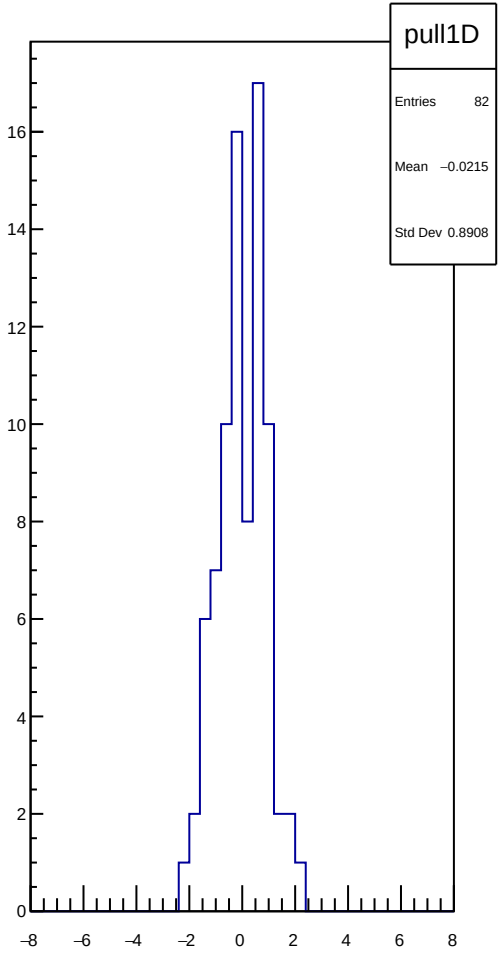

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.34e+04 / 81
p0 1770 ± 1.4
4000
3500
3000
2500
2000
1500

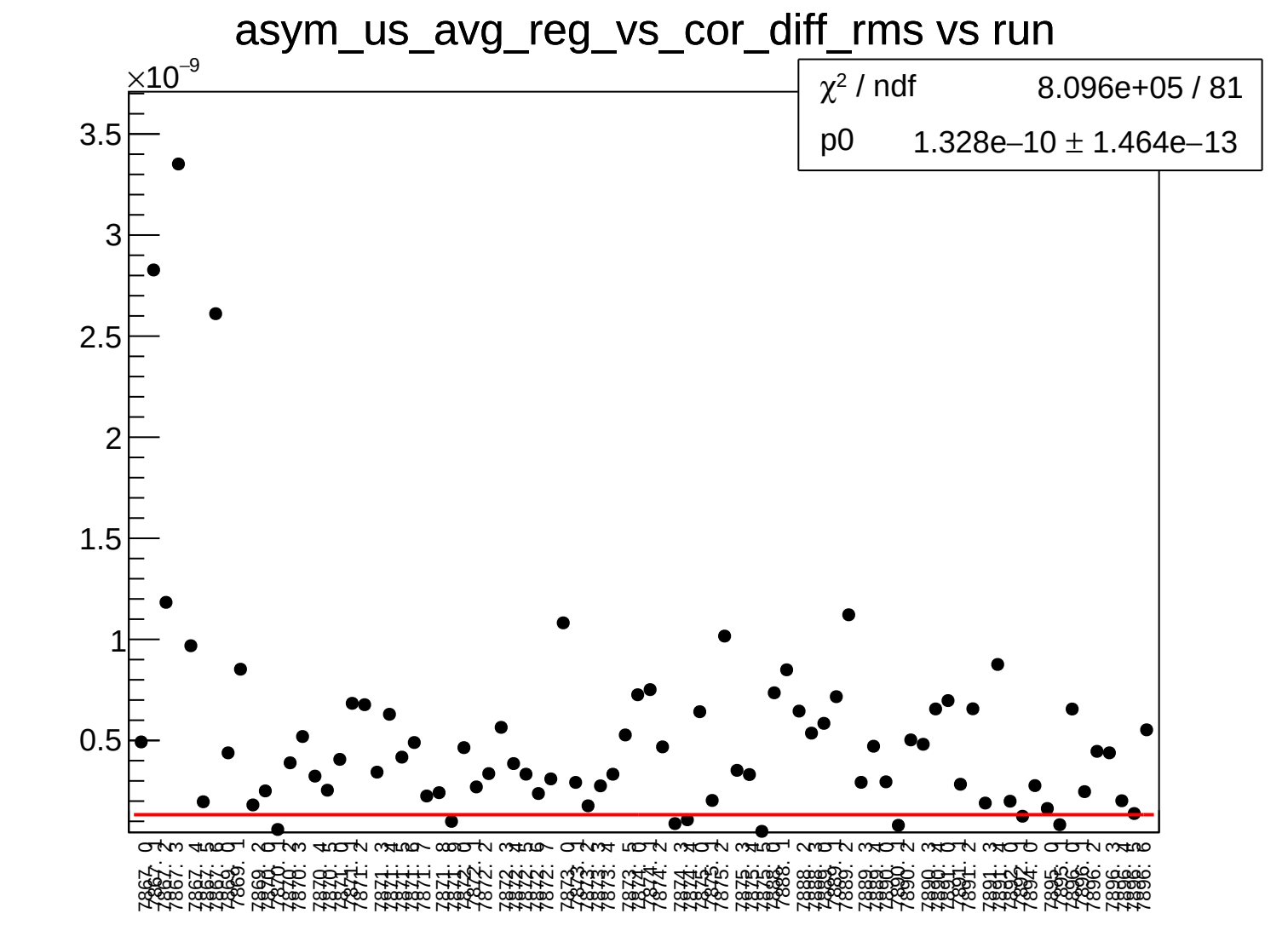

asym_us_avg_mean vs run
χ² / ndf 63.19 / 81
p0 −2158 ± 2204
pull
Entries 82
Mean −114.6
Std Dev 0

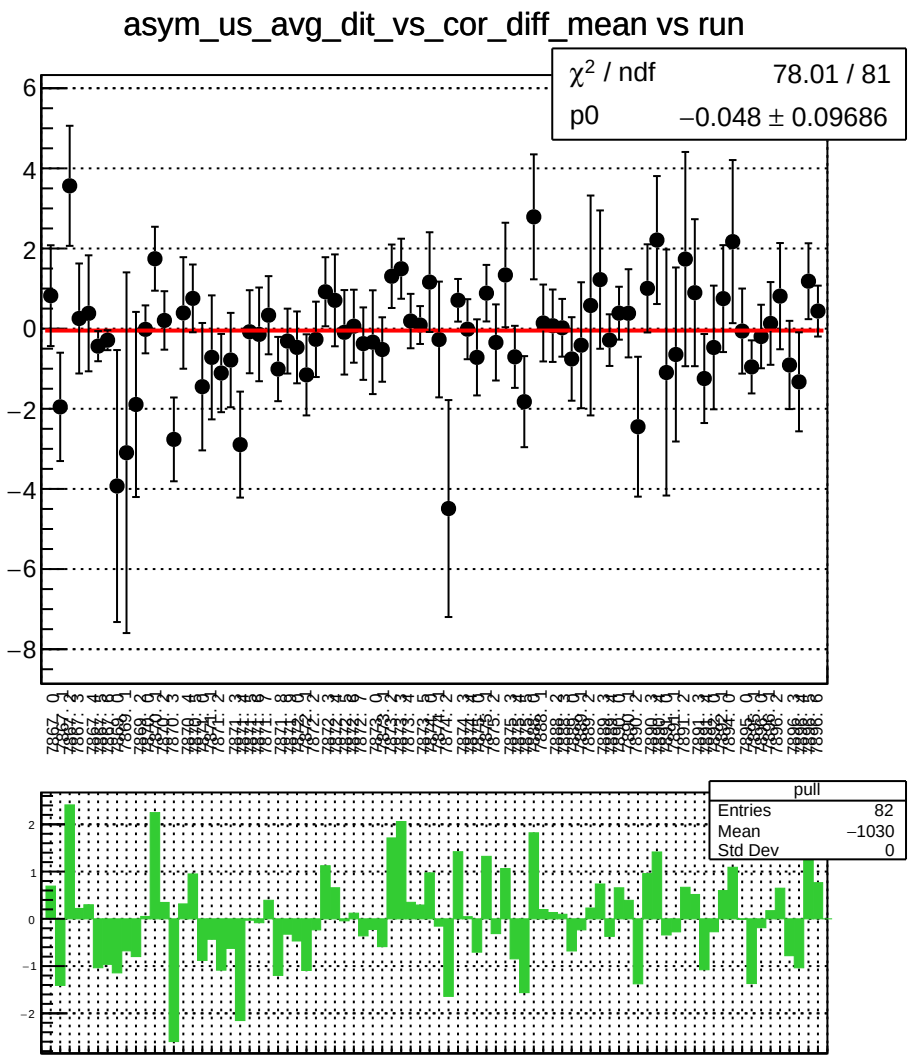

pull1D
Entries 82
Mean −0.0158
Std Dev 0.8777

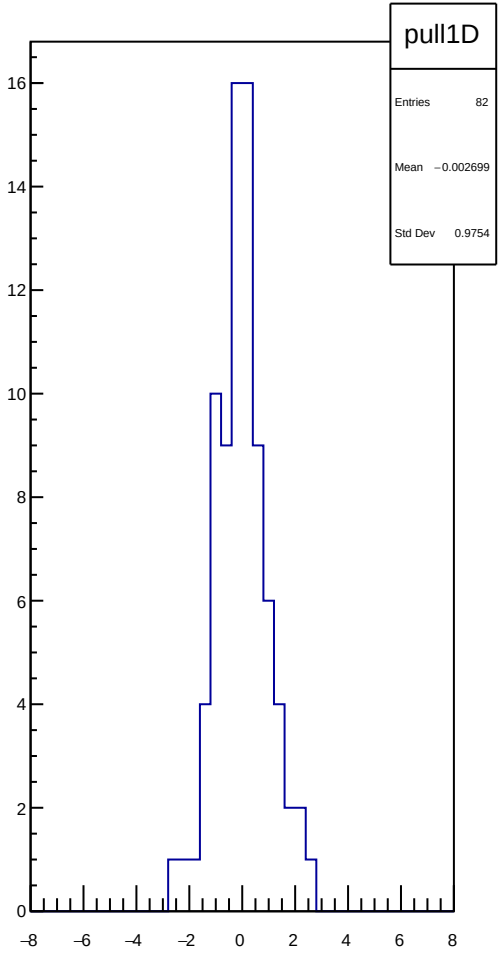

asym_us_avg_rms vs run
χ² / ndf 3.246e+04 / 81
p0 1971 ± 1.559
4000
3500
3000
2500
2000
1500

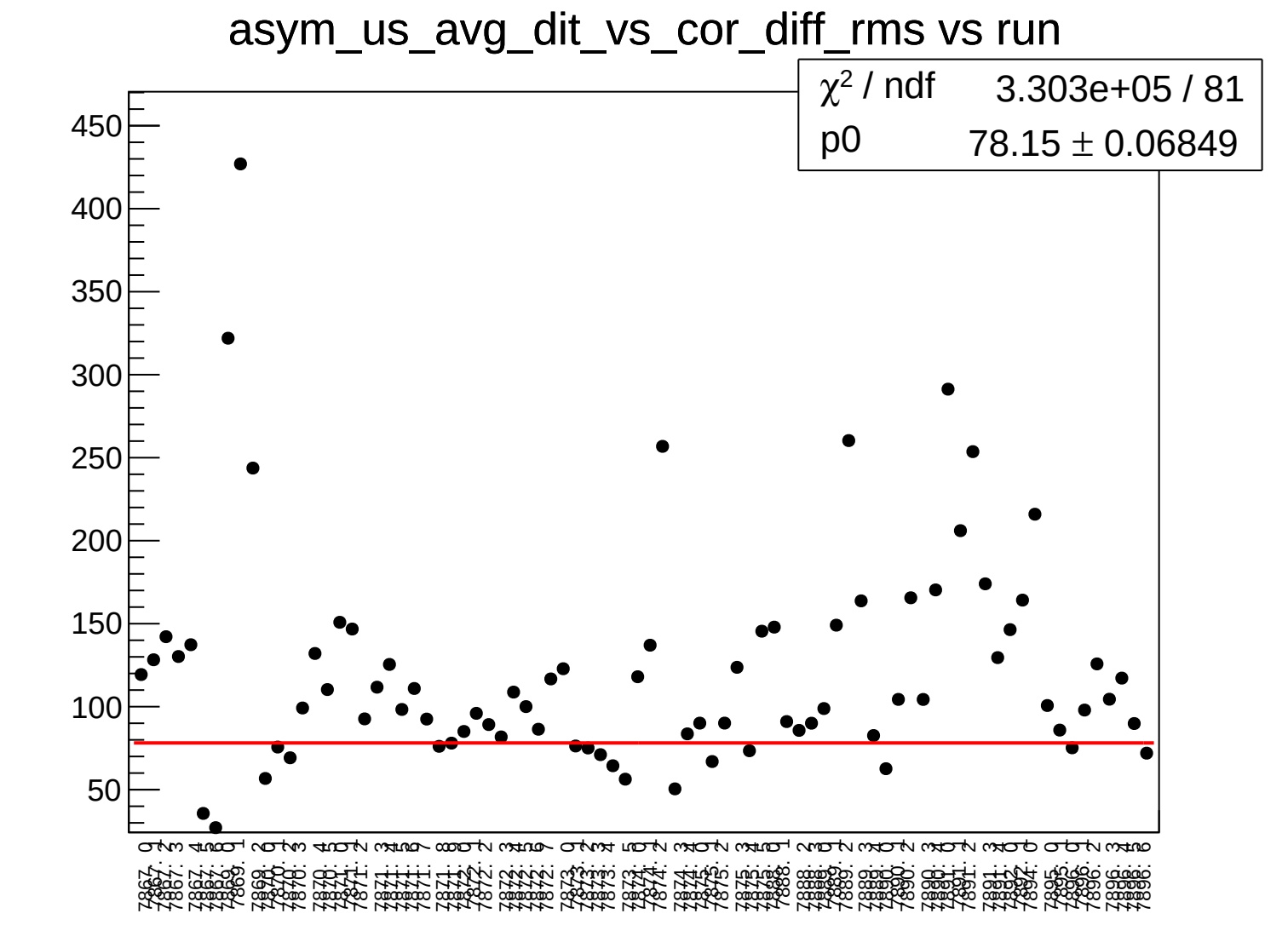

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 65.11 / 81
p0 2.29e−13 ± 2.071e−13
pull
Entries 82
Mean 126.5
Std Dev 0

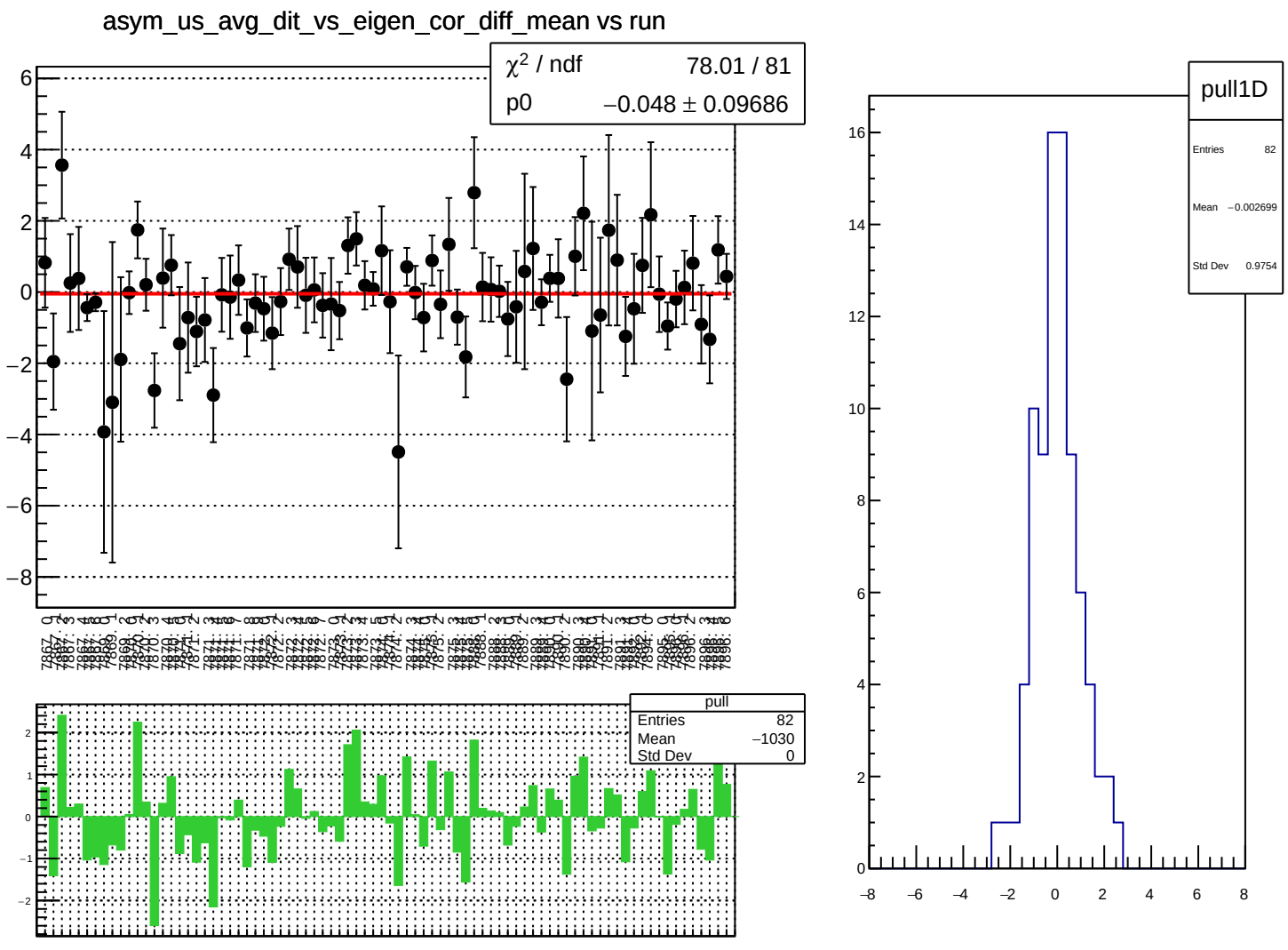

pull1D
Entries 82
Mean −0.0215
Std Dev 0.8908

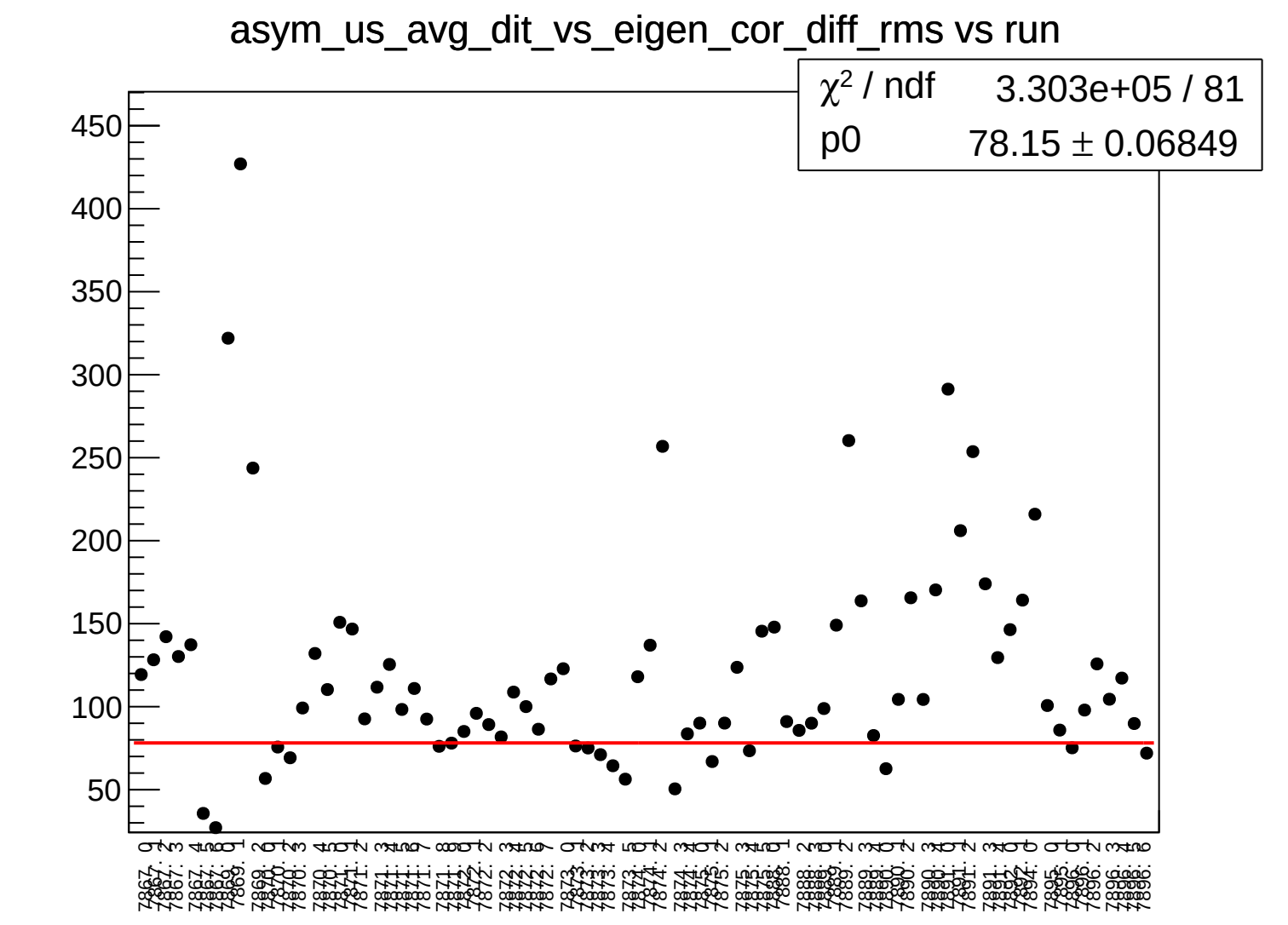

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.096e+05 / 81
p0 1.328e−10 ± 1.464e−13
3.5
3
2.5
2
1.5
1
0.5

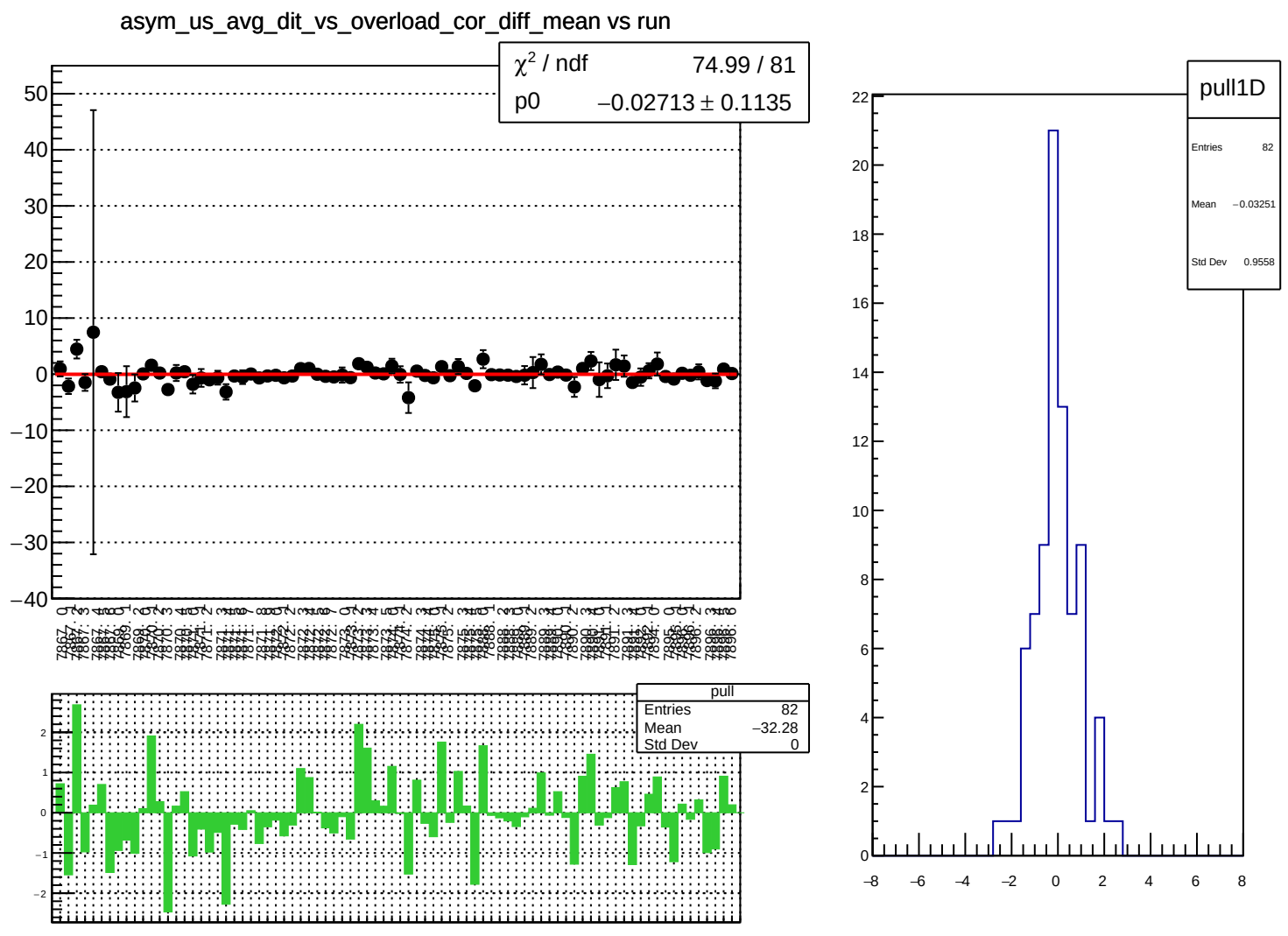

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.01 / 81
p0 −0.048 ± 0.09686
pull
Entries 82
Mean −1030
Std Dev 0

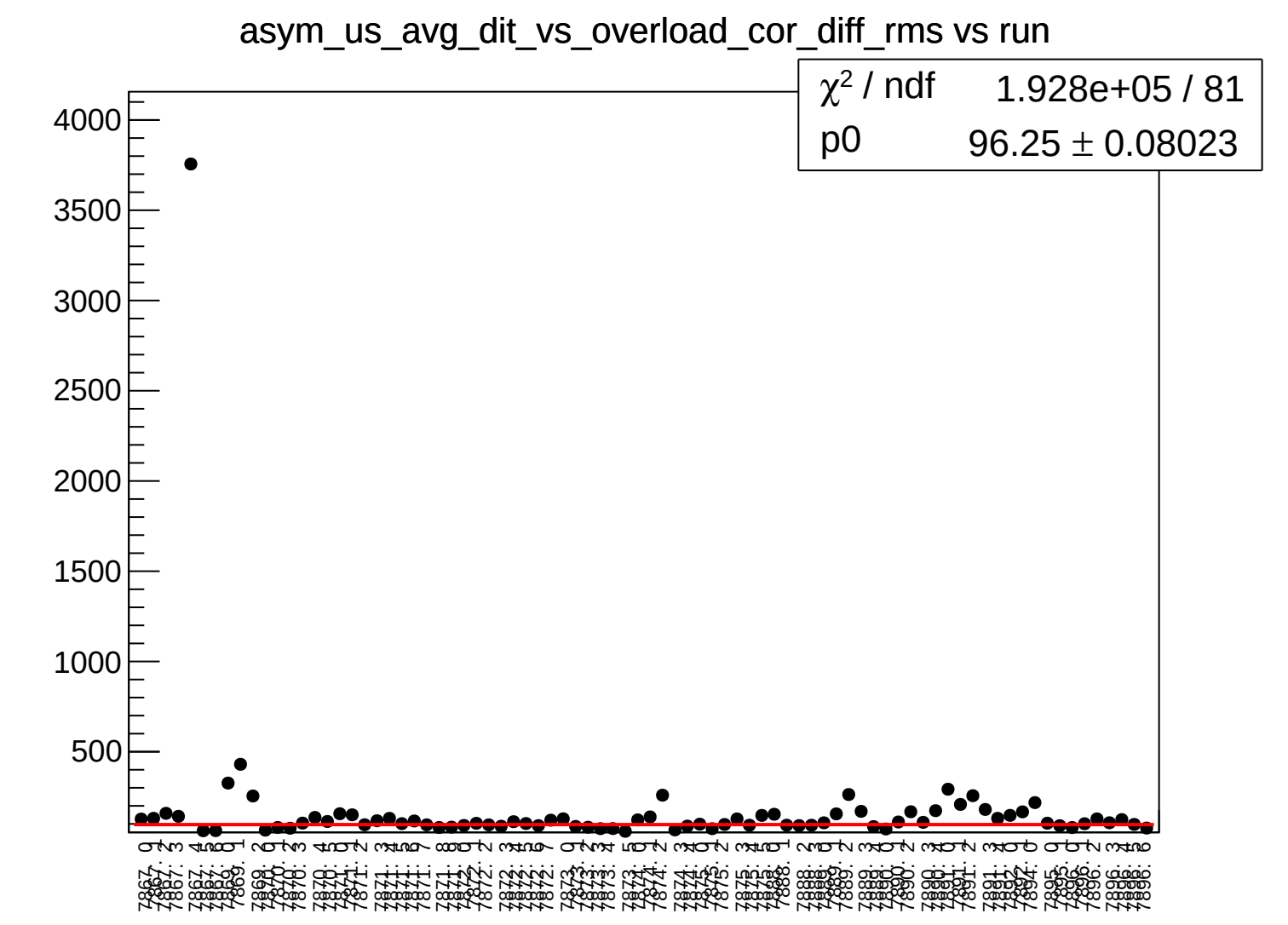

pull1D
Entries 82
Mean −0.002699
Std Dev 0.9754

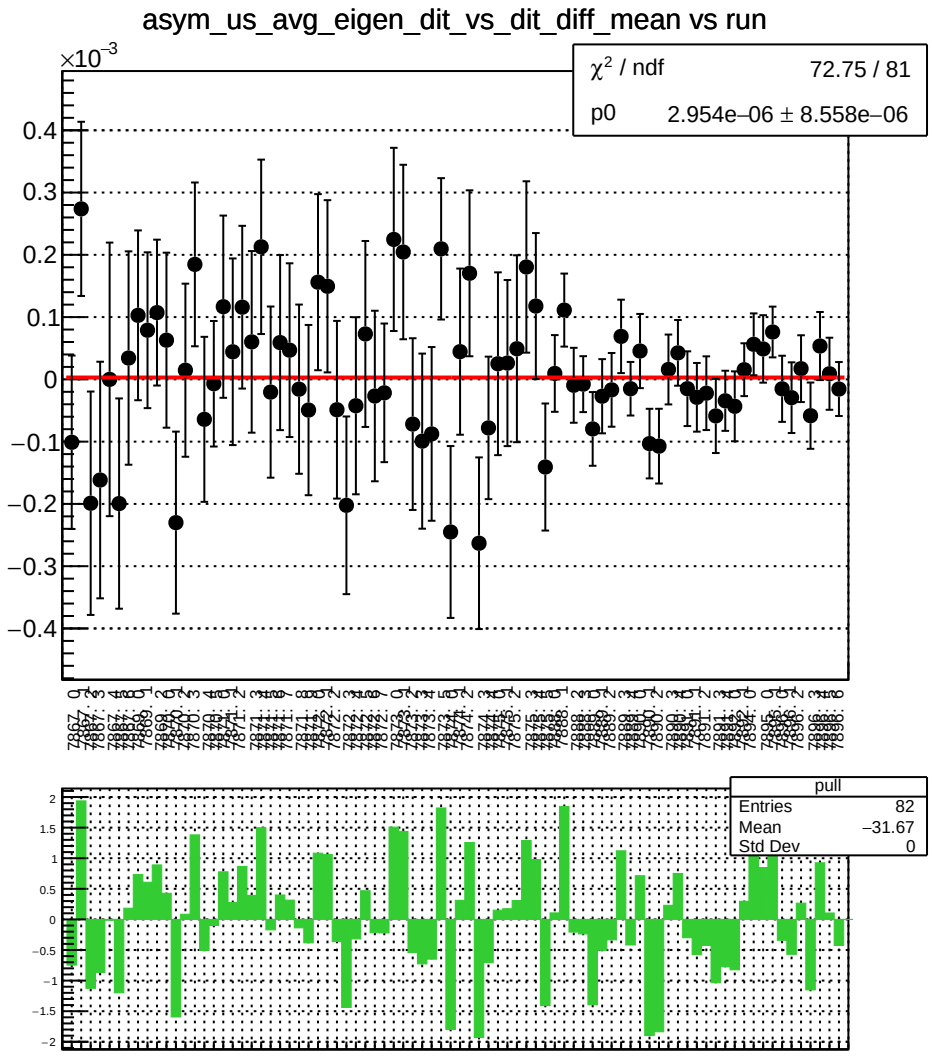

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.303e+05 / 81
p0 78.15 ± 0.06849
450
400
350
300
250
200
150
100
50

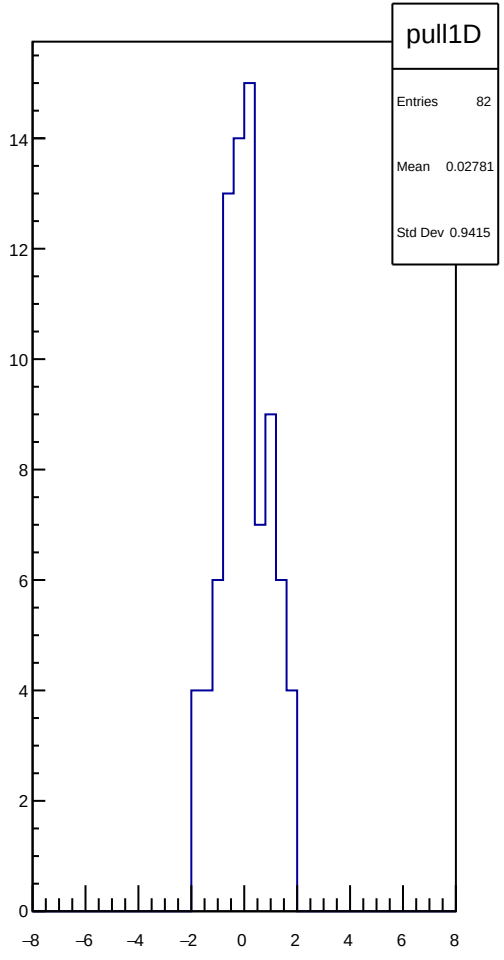

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.01 / 81
p0 −0.048 ± 0.09686
pull
Entries 82
Mean −1030
Std Dev 0
pull1D
Entries 82
Mean −0.002699
Std Dev 0.9754

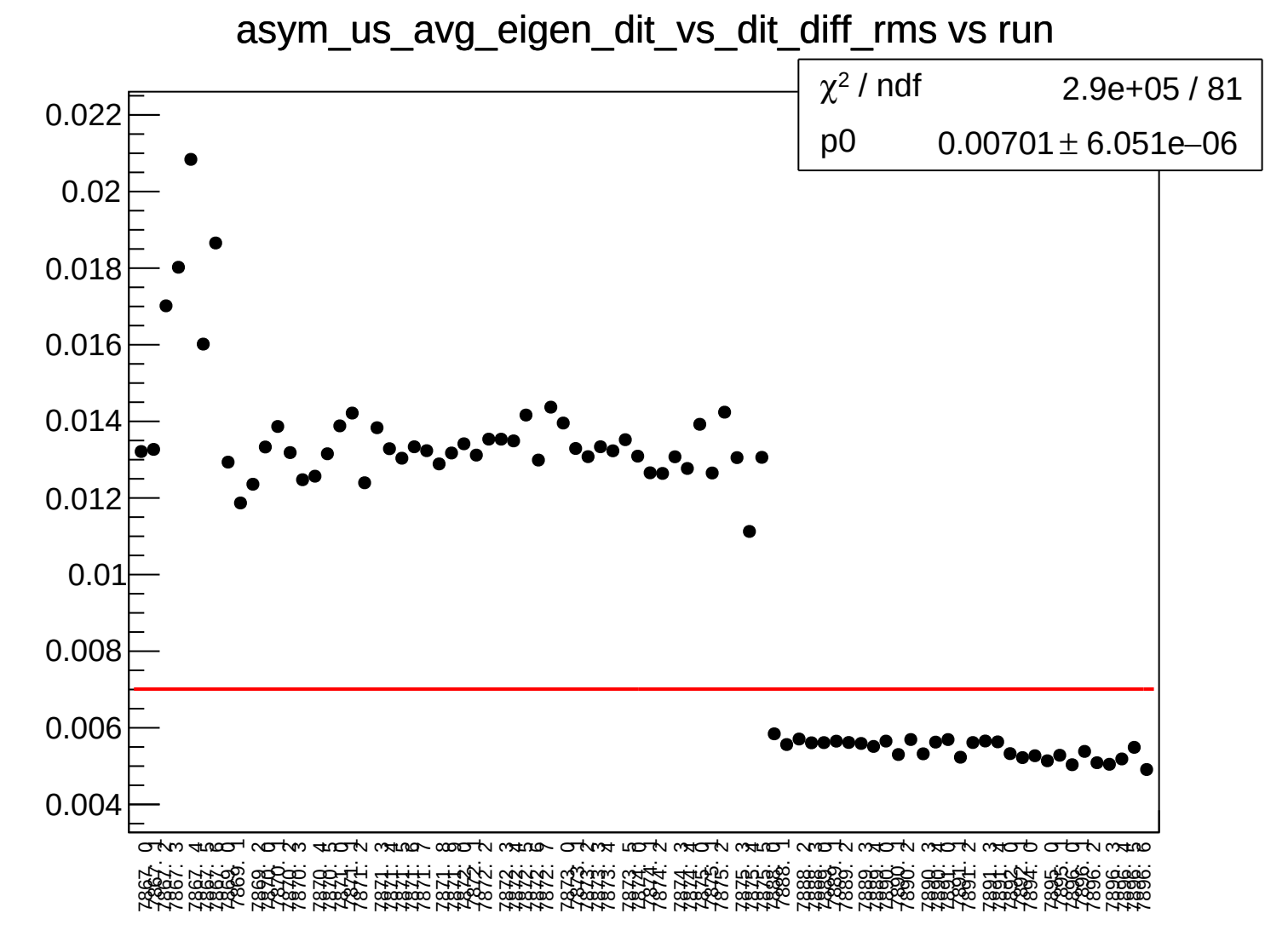

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.303e+05 / 81
p0 78.15 ± 0.06849
450
400
350
300
250
200
150
100
50

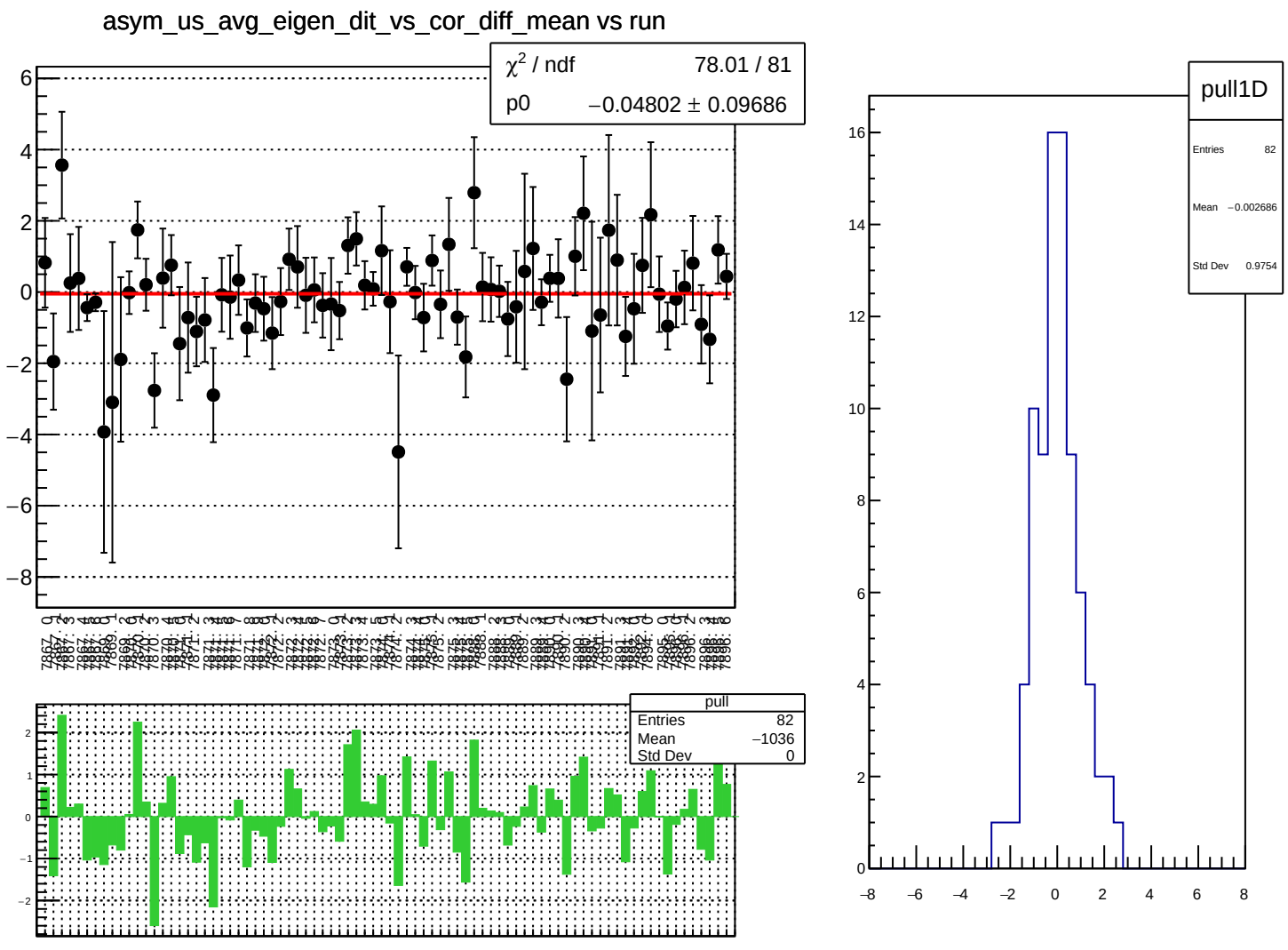

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.99 / 81
p0 −0.02713 ± 0.1135
pull
Entries 82
Mean −32.28
Std Dev 0
pull1D
Entries 82
Mean −0.03251
Std Dev 0.9558

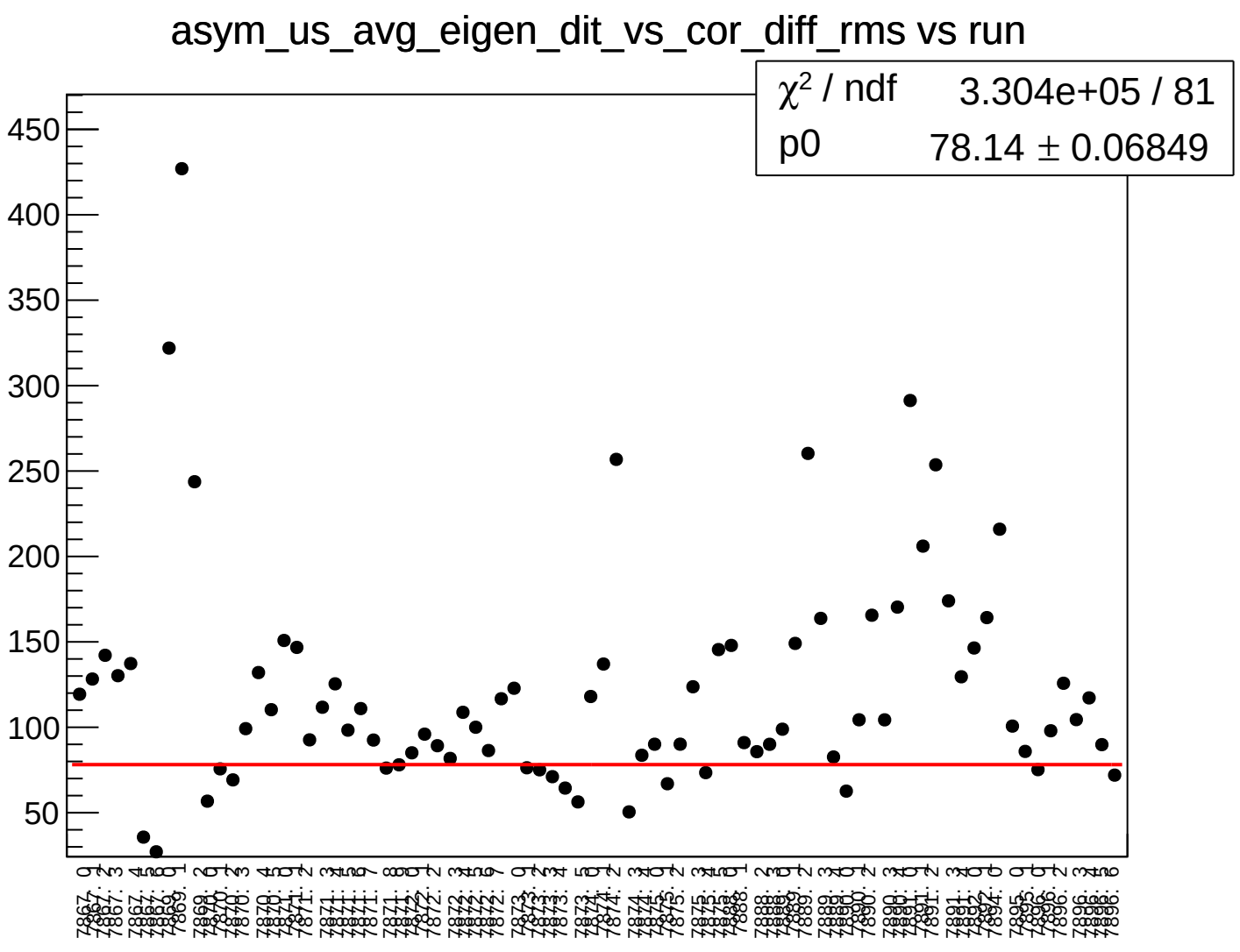

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.928e+05 / 81
p0 96.25 ± 0.08023
4000
3500
3000
2500
2000
1500
1000
500

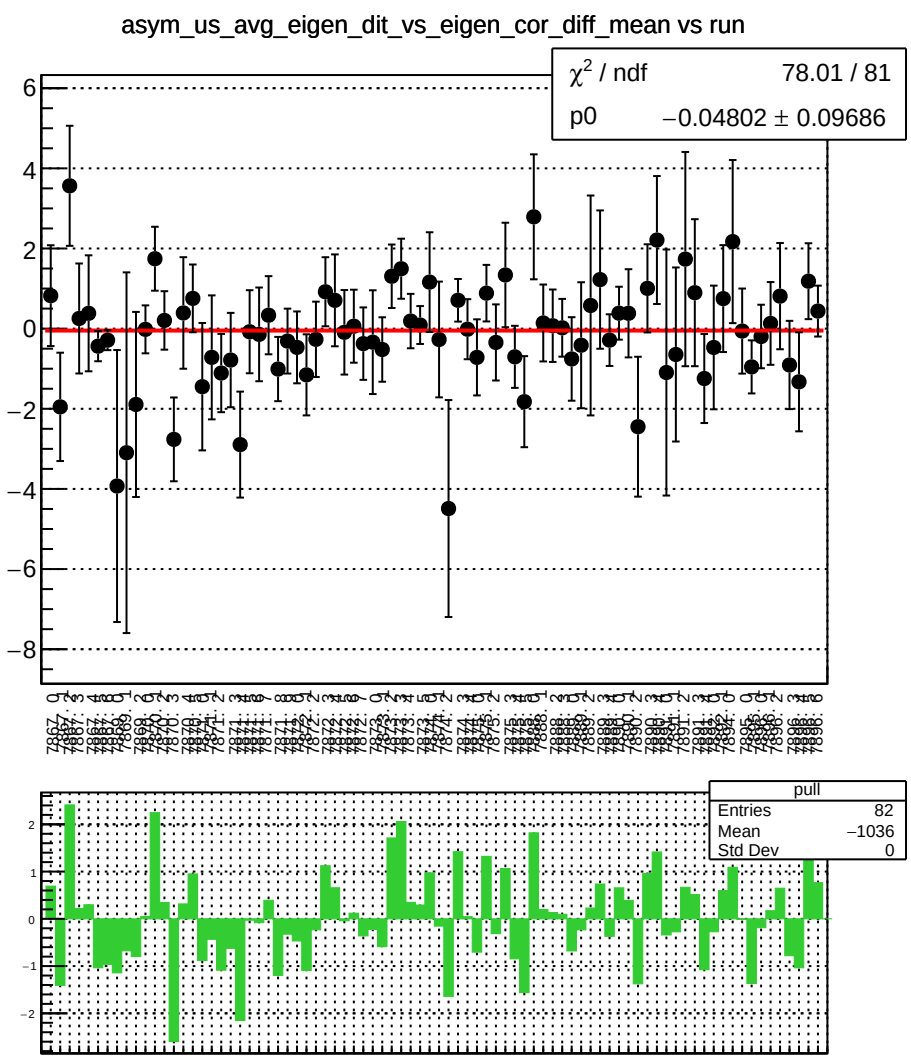

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.75 / 81
p0 2.954e−06 ± 8.558e−06
pull
Entries 82
Mean −31.67
Std Dev 0

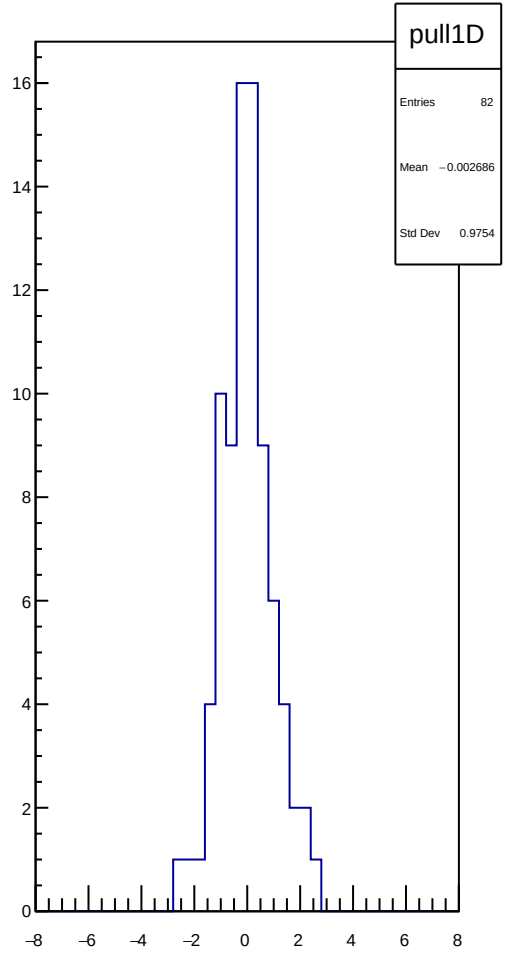

pull1D
Entries 82
Mean 0.02781
Std Dev 0.9415

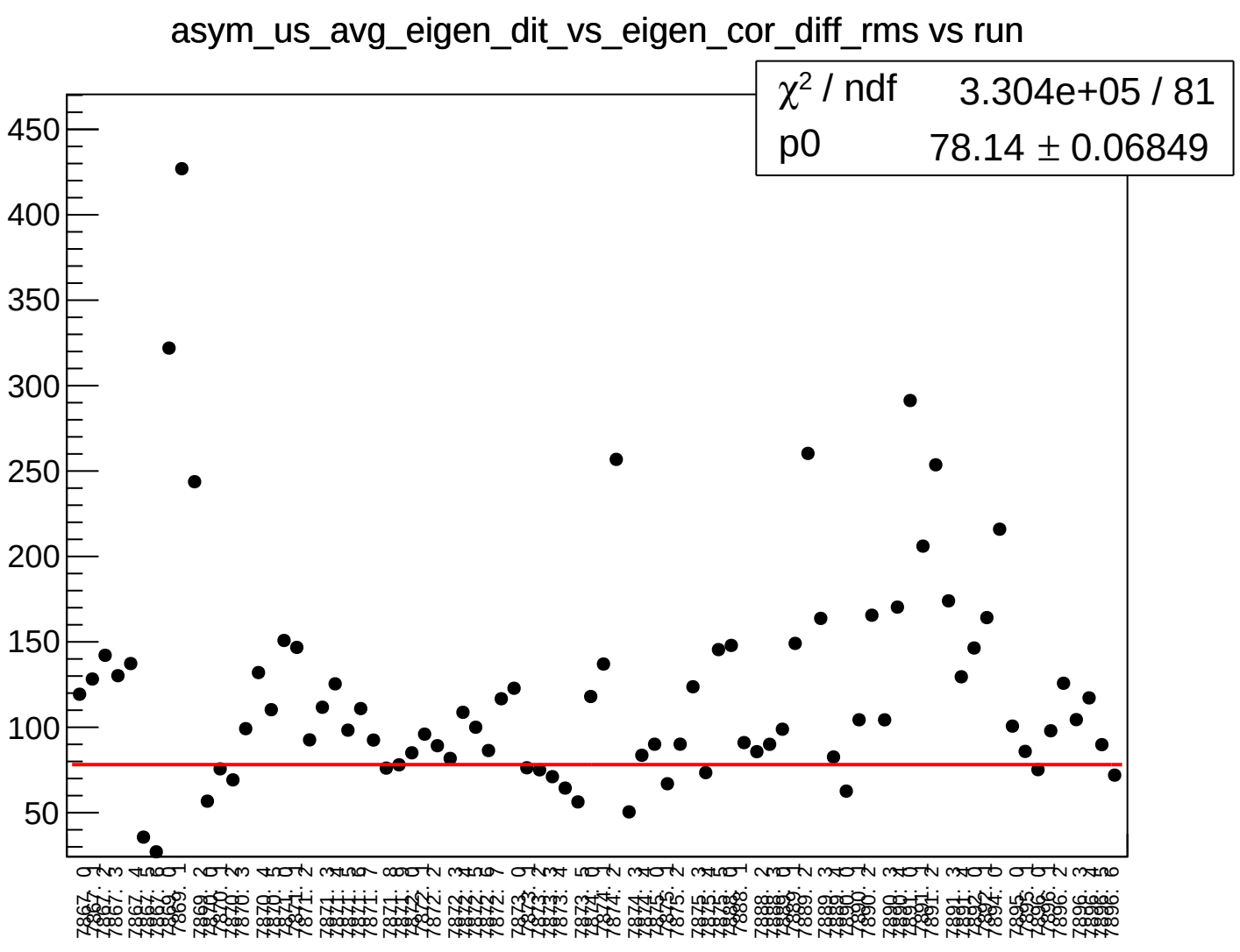

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.9e+05 / 81
p0 0.00701 ± 6.051e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

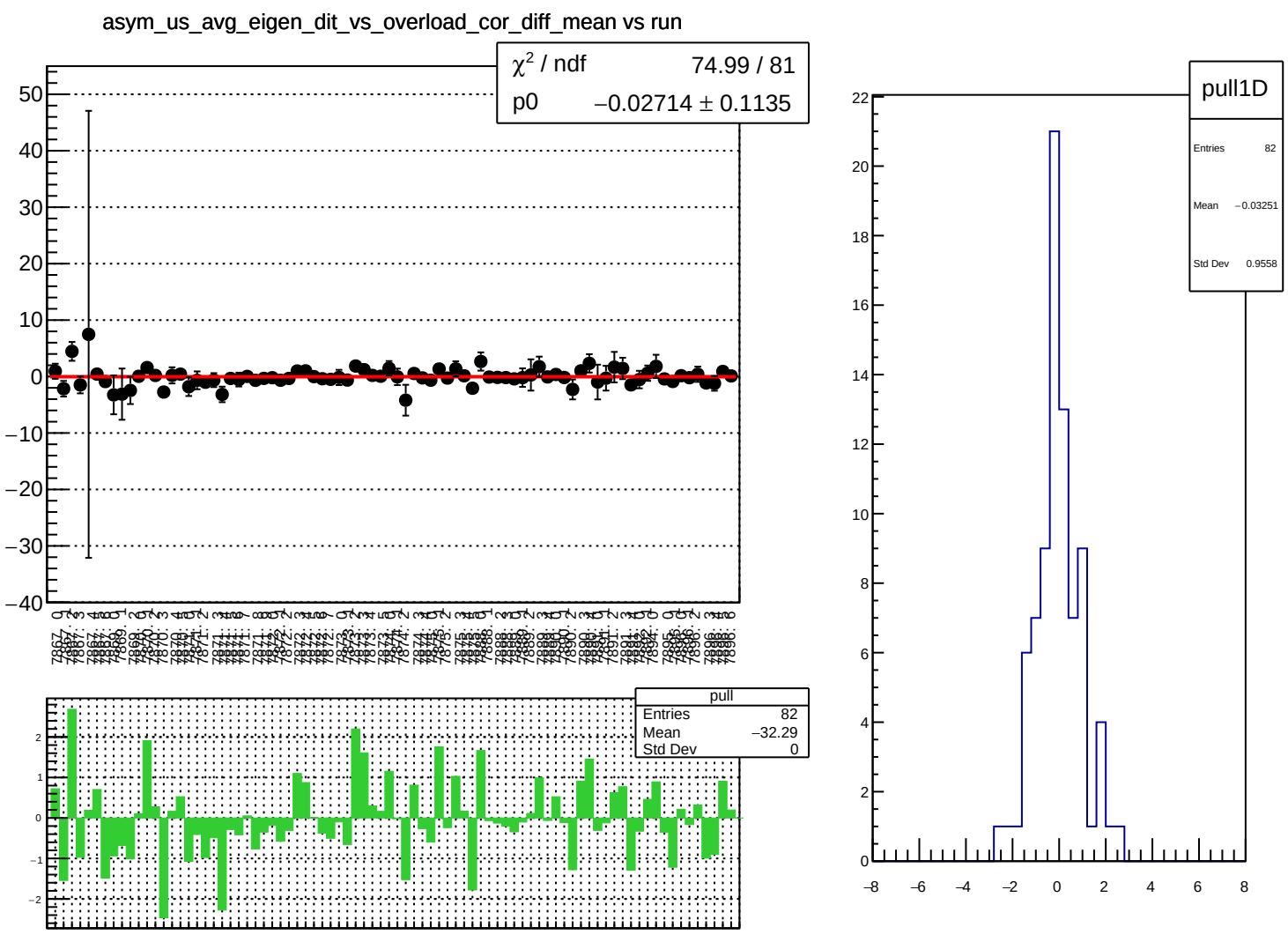

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.01 / 81
p0 −0.04802 ± 0.09686
pull
Entries 82
Mean −1036
Std Dev 0
pull1D
Entries 82
Mean −0.002686
Std Dev 0.9754

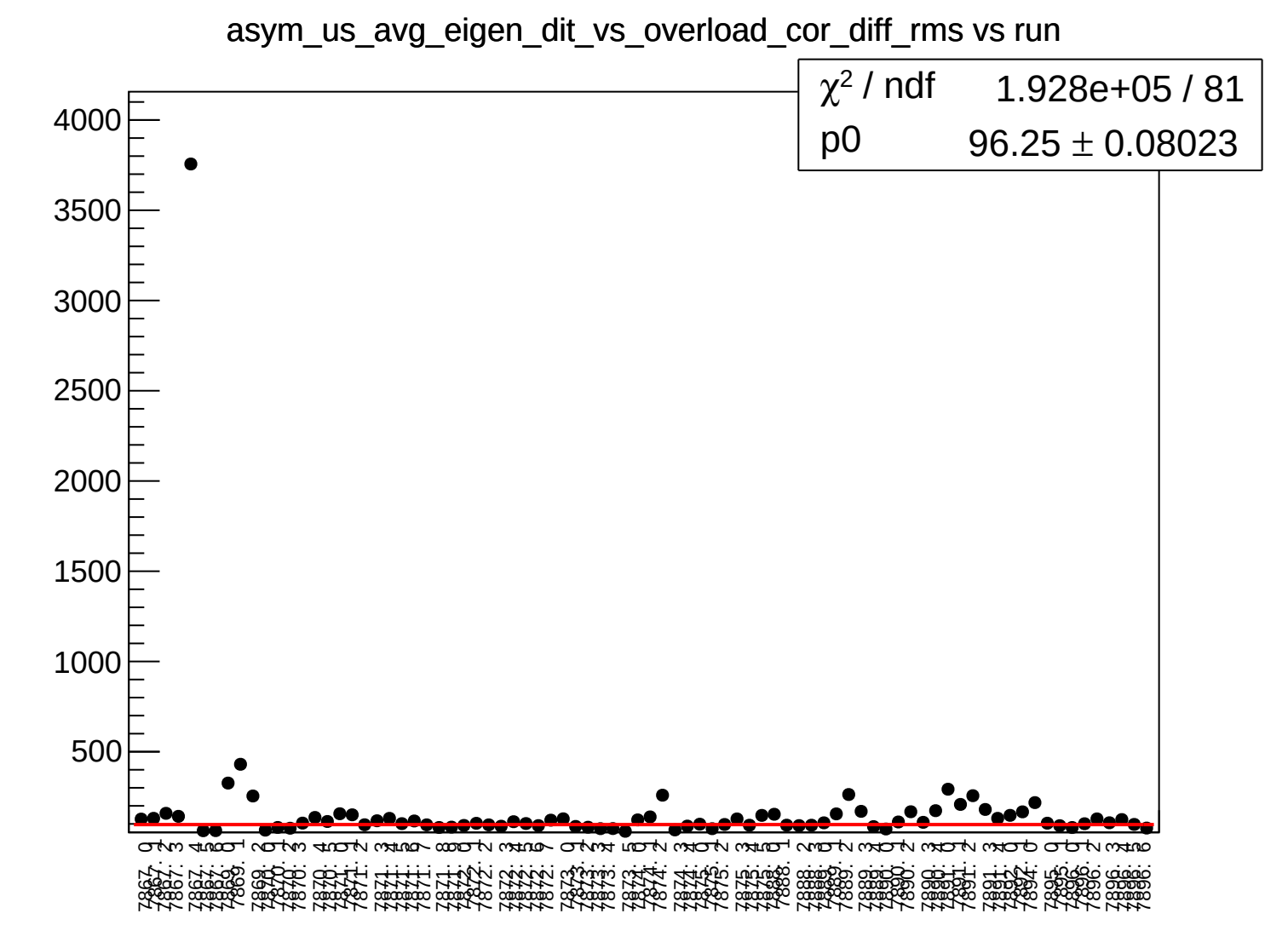

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.304e+05 / 81
p0 78.14 ± 0.06849
450
400
350
300
250
200
150
100
50

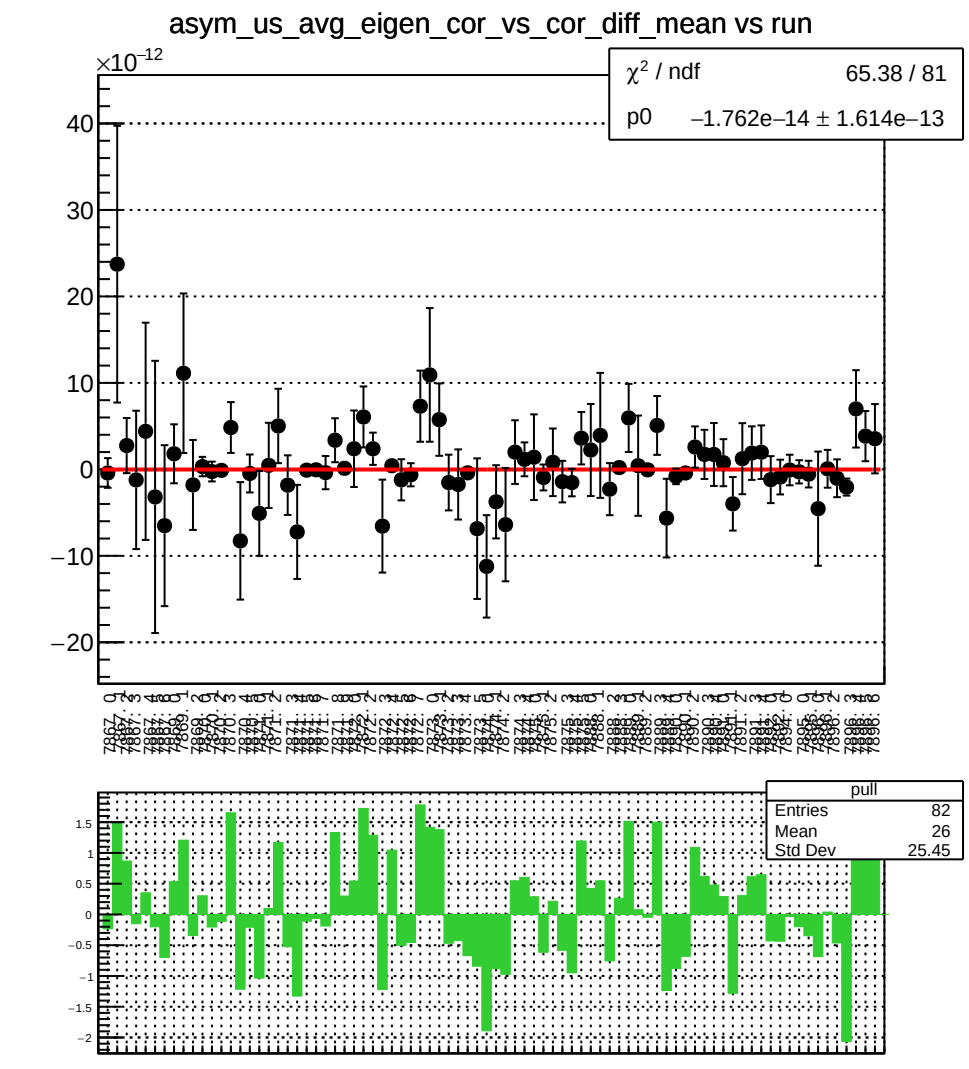

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.01 / 81
p0 −0.04802 ± 0.09686
pull
Entries 82
Mean −1036
Std Dev 0

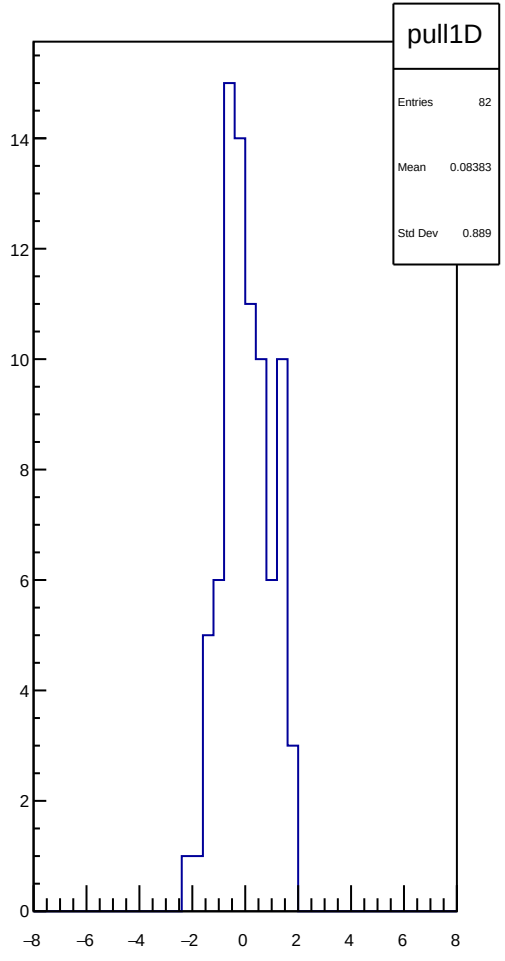

pull1D
Entries 82
Mean −0.002686
Std Dev 0.9754

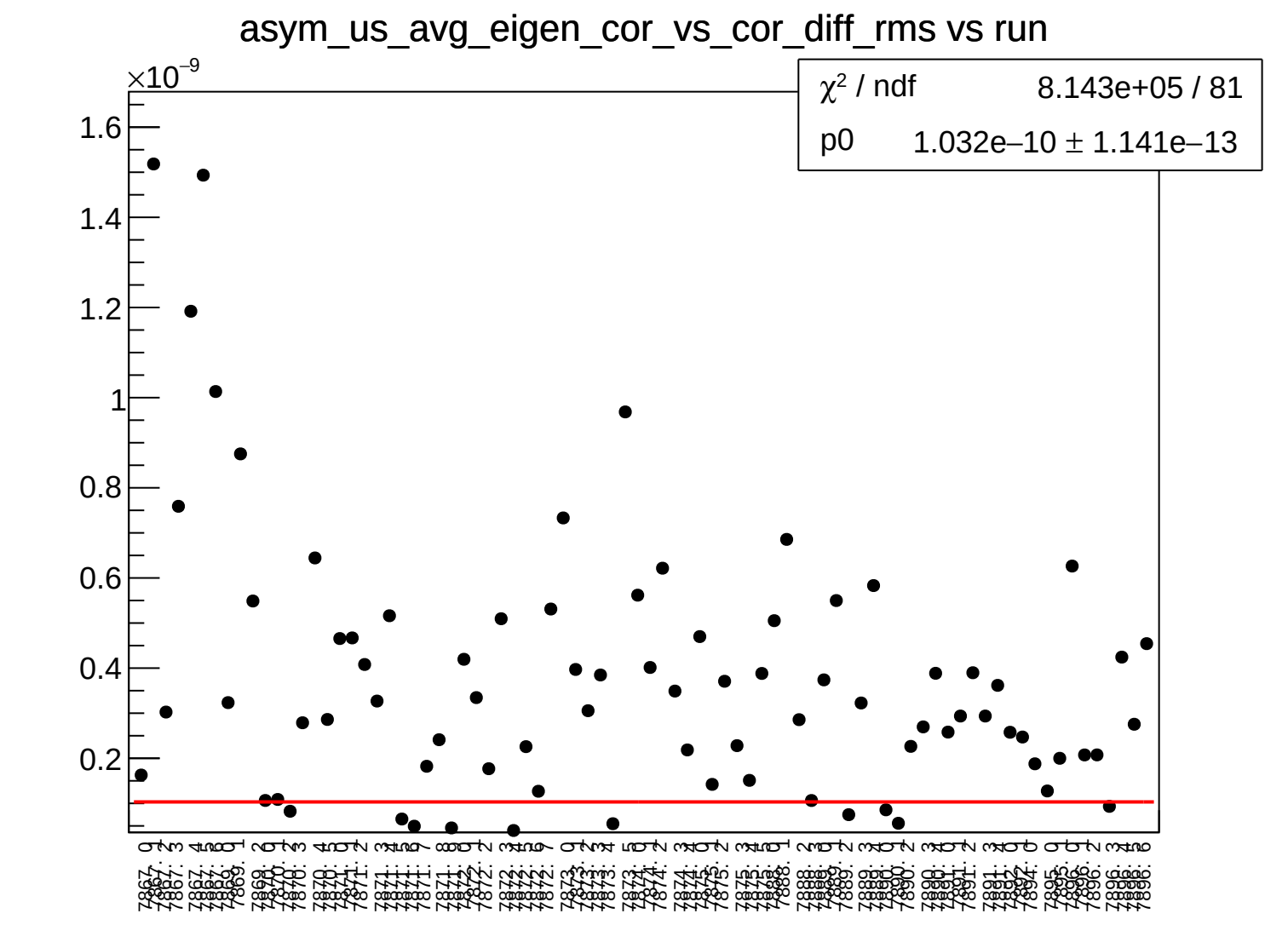

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.304e+05 / 81
p0 78.14 ± 0.06849
450
400
350
300
250
200
150
100
50

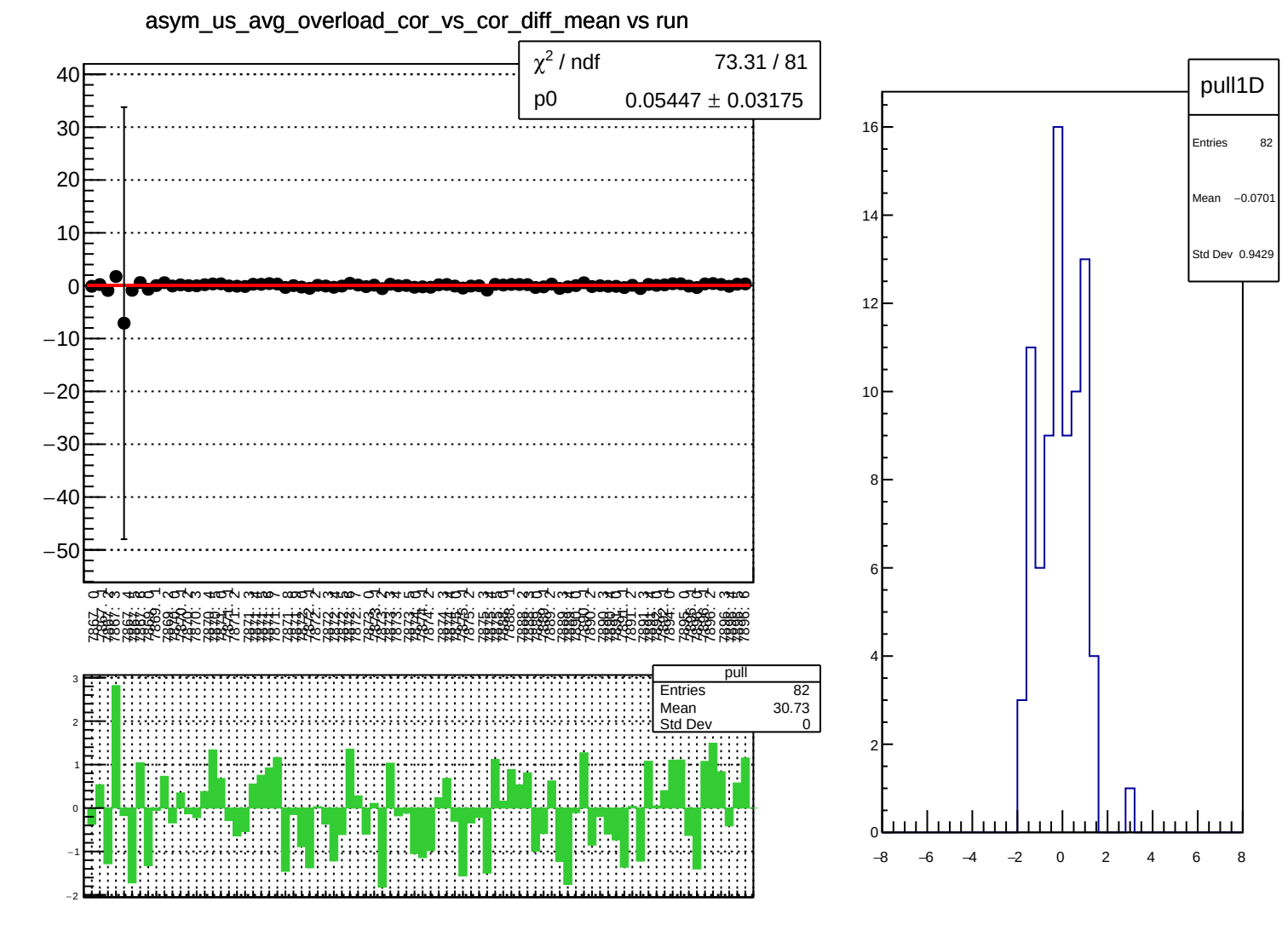

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.99 / 81
p0 −0.02714 ± 0.1135
pull
Entries 82
Mean −32.29
Std Dev 0
pull1D
Entries 82
Mean −0.03251
Std Dev 0.9558

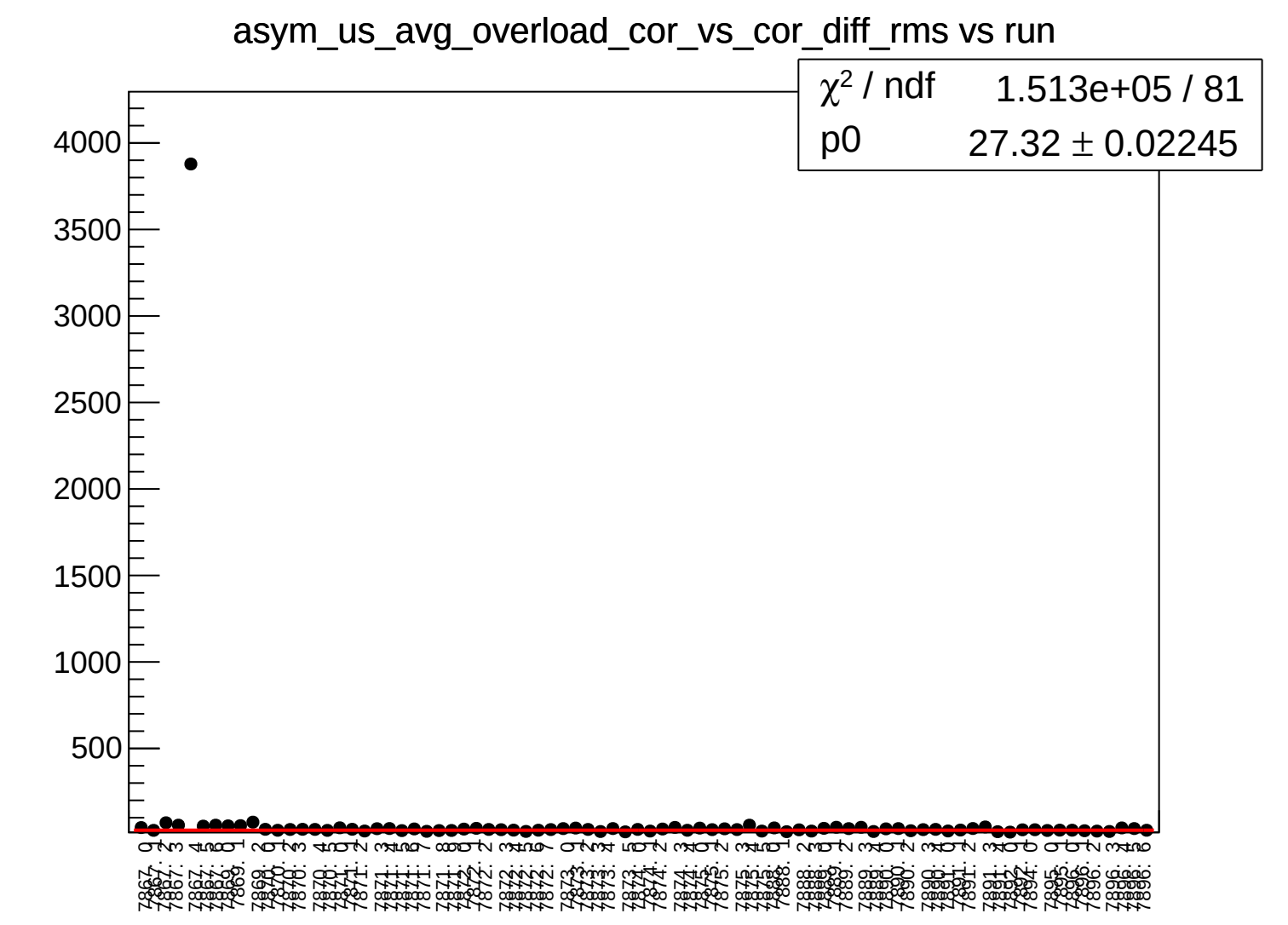

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.928e+05 / 81
p0 96.25 ± 0.08023
4000
3500
3000
2500
2000
1500
1000
500

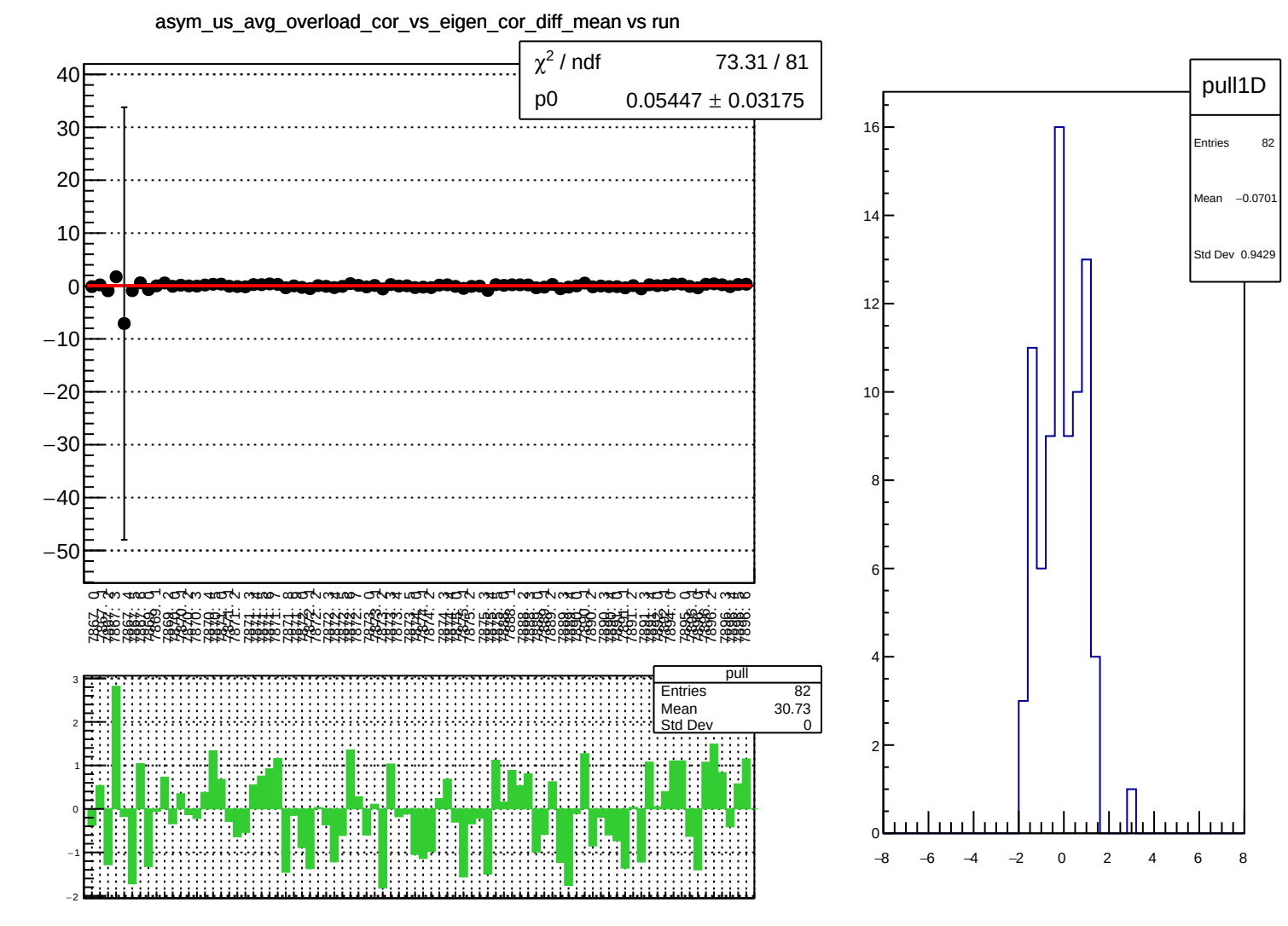

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.38 / 81
p0 −1.762e−14 ± 1.614e−13
pull
Entries 82
Mean 26
Std Dev 25.45

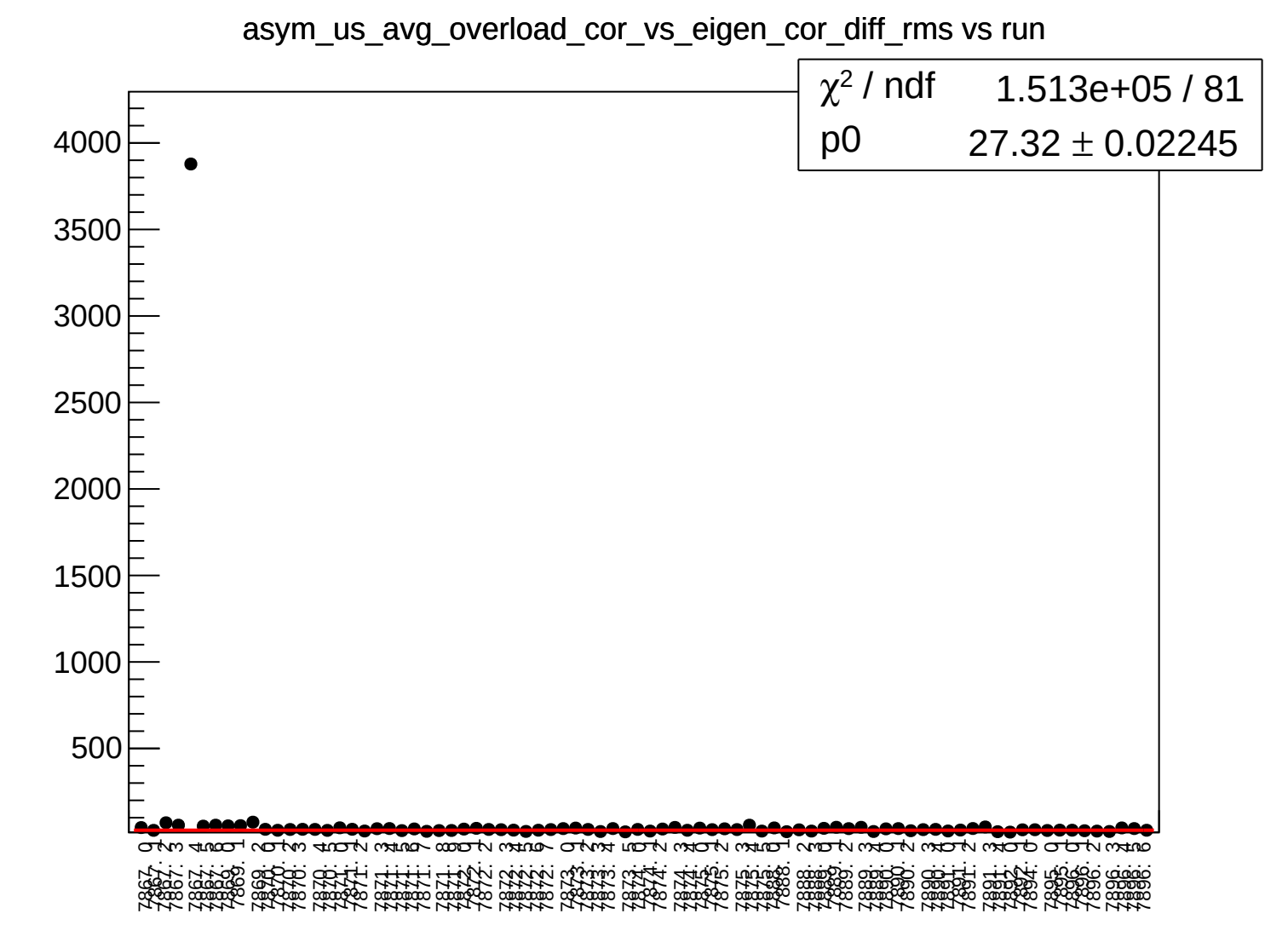

pull1D
Entries 82
Mean 0.08383
Std Dev 0.889

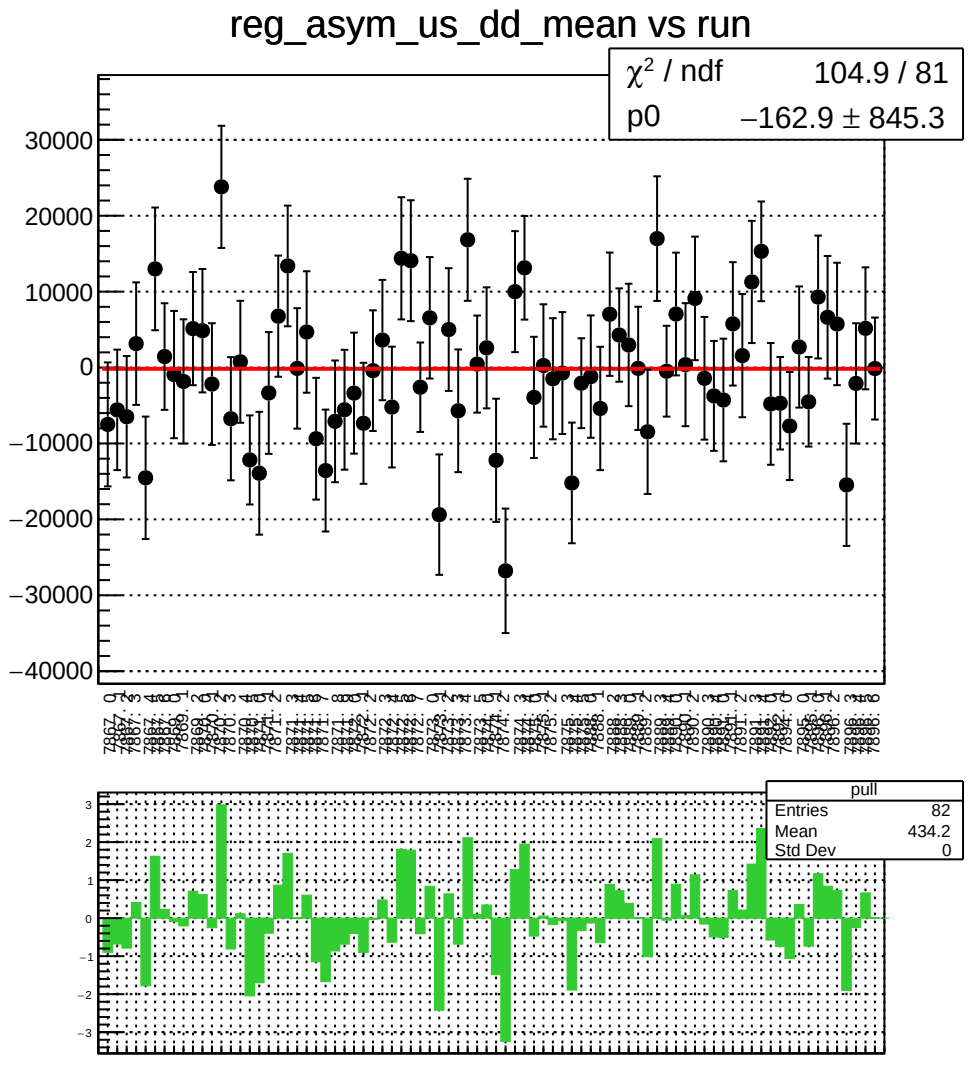

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.143e+05 / 81
p0 1.032e−10 ± 1.141e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

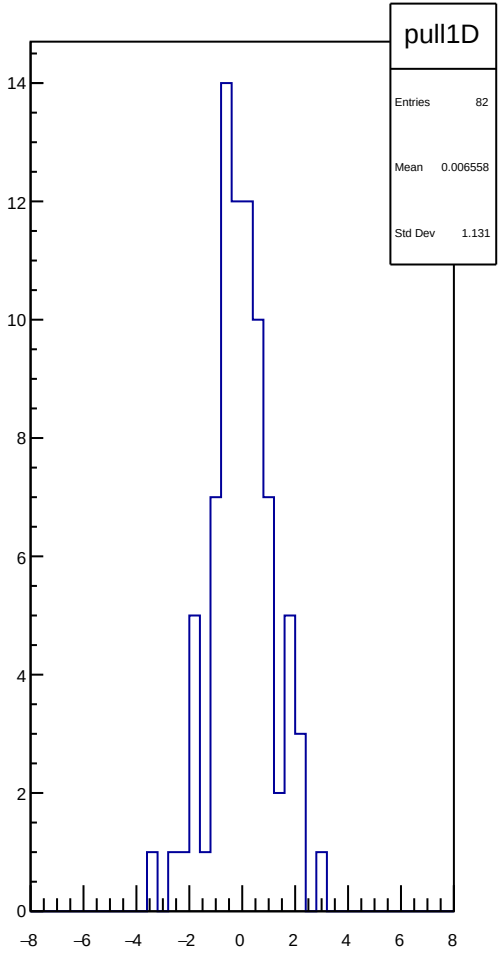

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 73.31 / 81
p0 0.05447 ± 0.03175
pull
Entries 82
Mean 30.73
Std Dev 0
pull1D
Entries 82
Mean −0.0701
Std Dev 0.9429

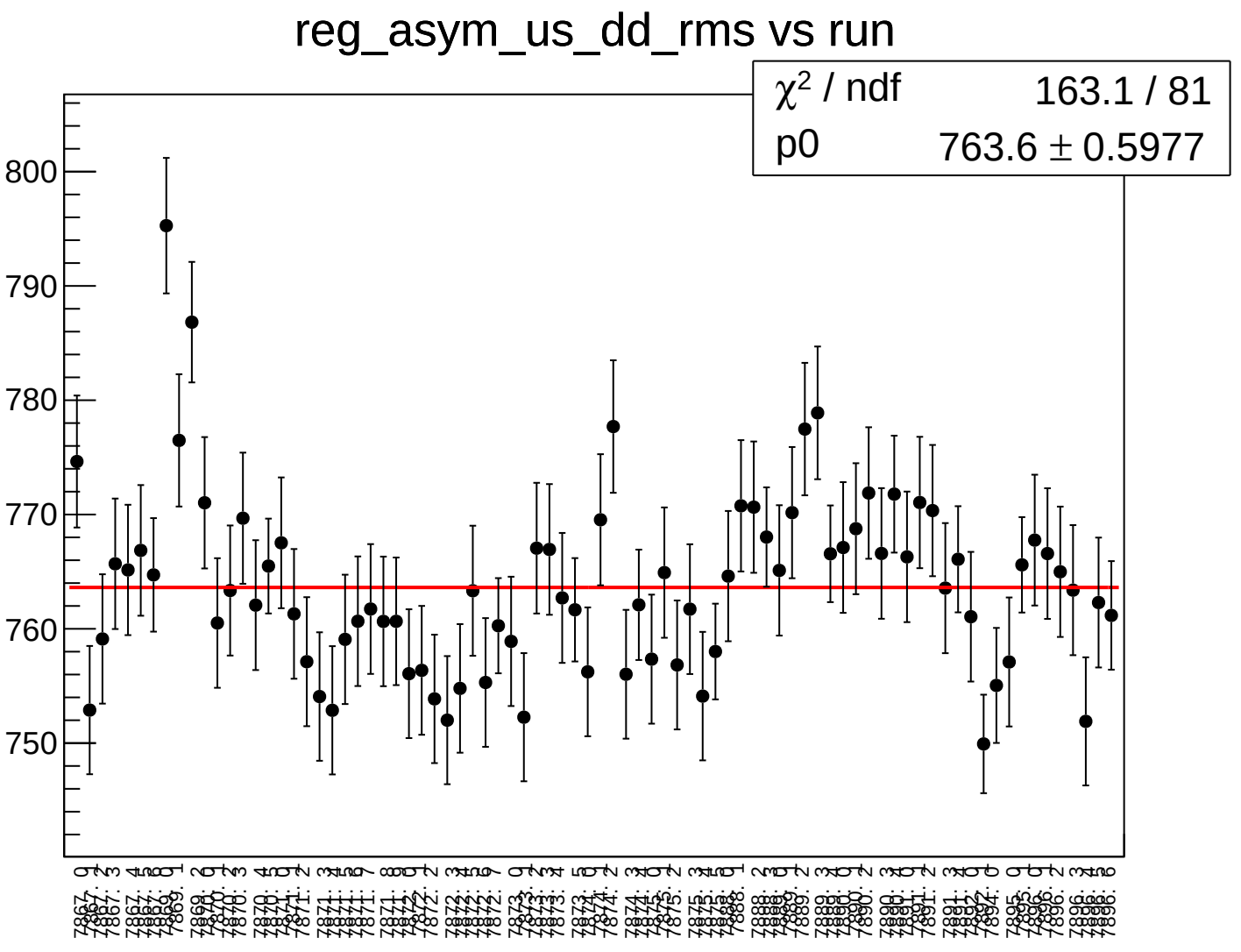

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.513e+05 / 81
p0 27.32 ± 0.02245
4000
3500
3000
2500
2000
1500
1000
500

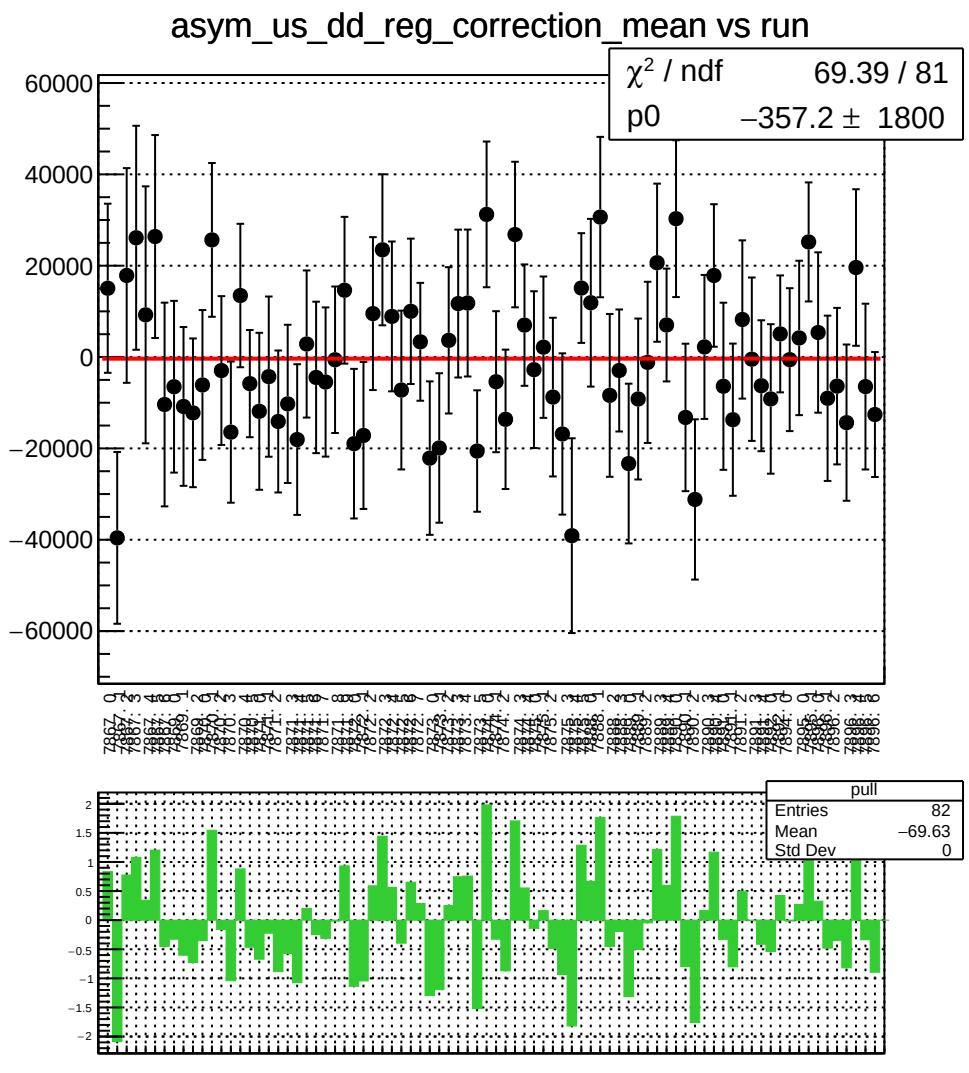

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.31 / 81
p0 0.05447 ± 0.03175
pull
Entries 82
Mean 30.73
Std Dev 0
pull1D
Entries 82
Mean −0.0701
Std Dev 0.9429

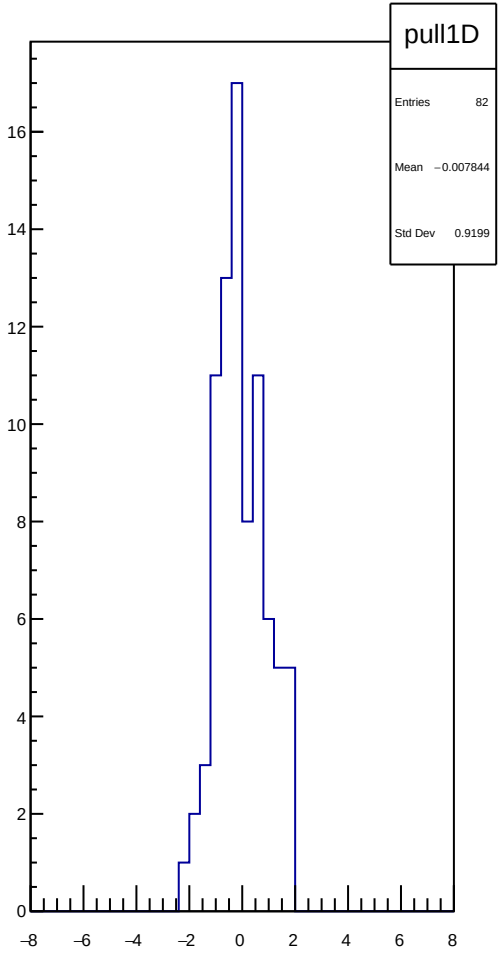

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.513e+05 / 81
p0 27.32 ± 0.02245
4000
3500
3000
2500
2000
1500
1000
500

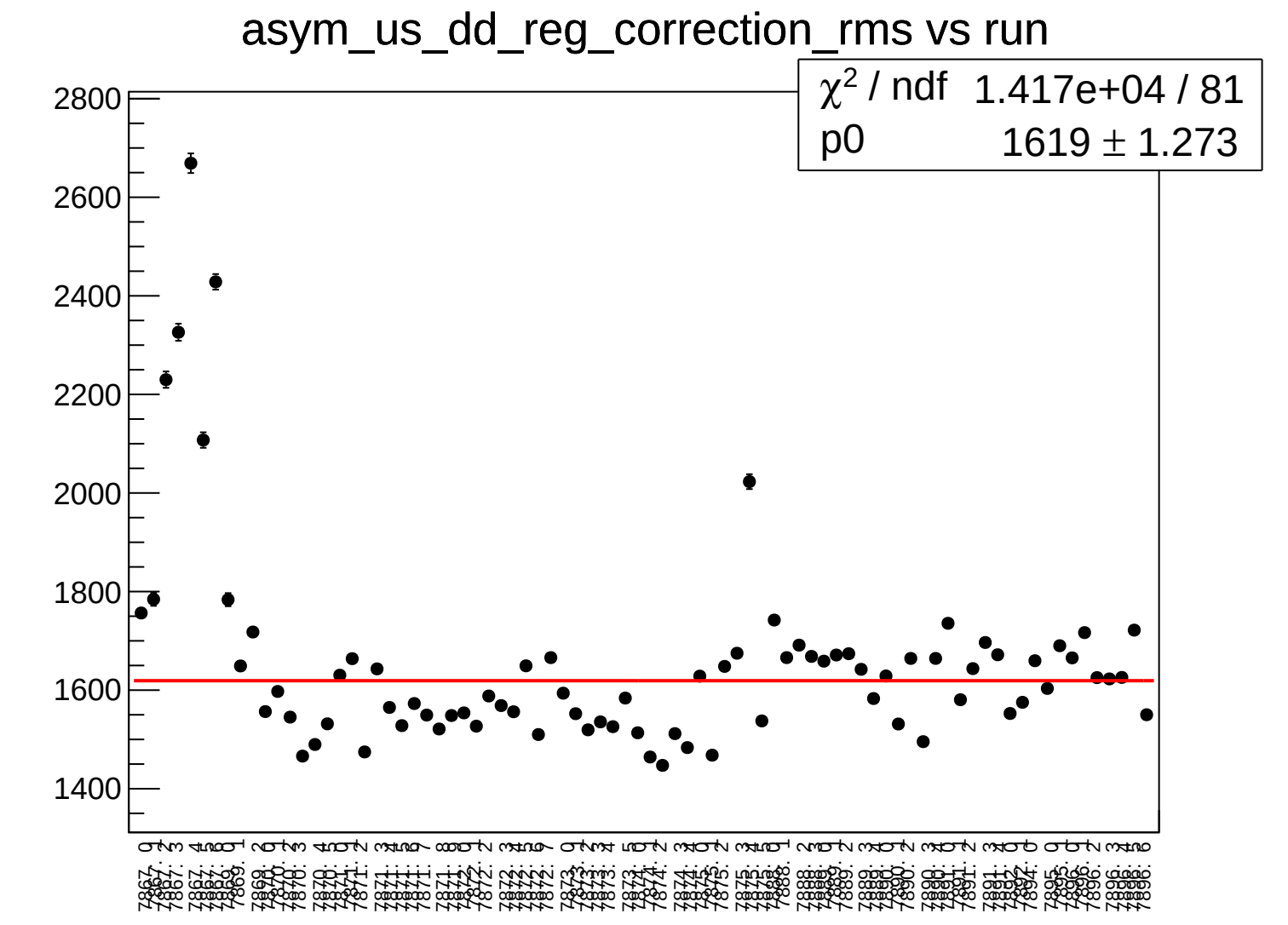

reg_asym_us_dd_mean vs run
χ² / ndf 104.9 / 81
p0 −162.9 ± 845.3
pull
Entries 82
Mean 434.2
Std Dev 0

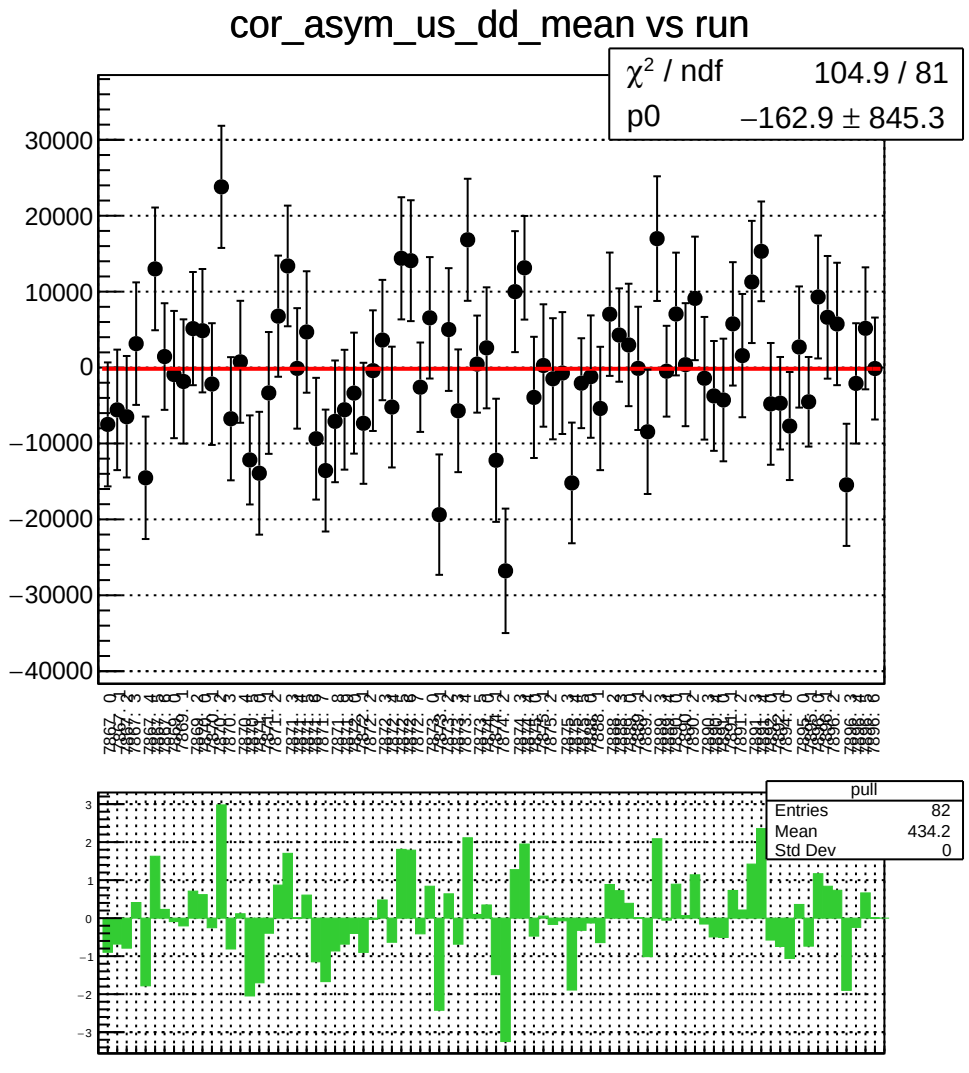

pull1D
Entries 82
Mean 0.006558
Std Dev 1.131

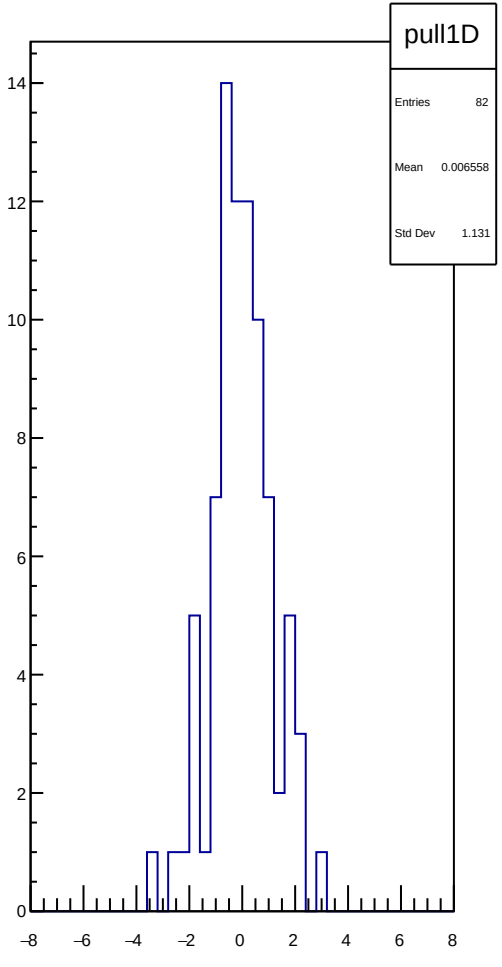

reg_asym_us_dd_rms vs run
χ² / ndf 163.1 / 81
p0 763.6 ± 0.5977
800
790
780
770
760
750

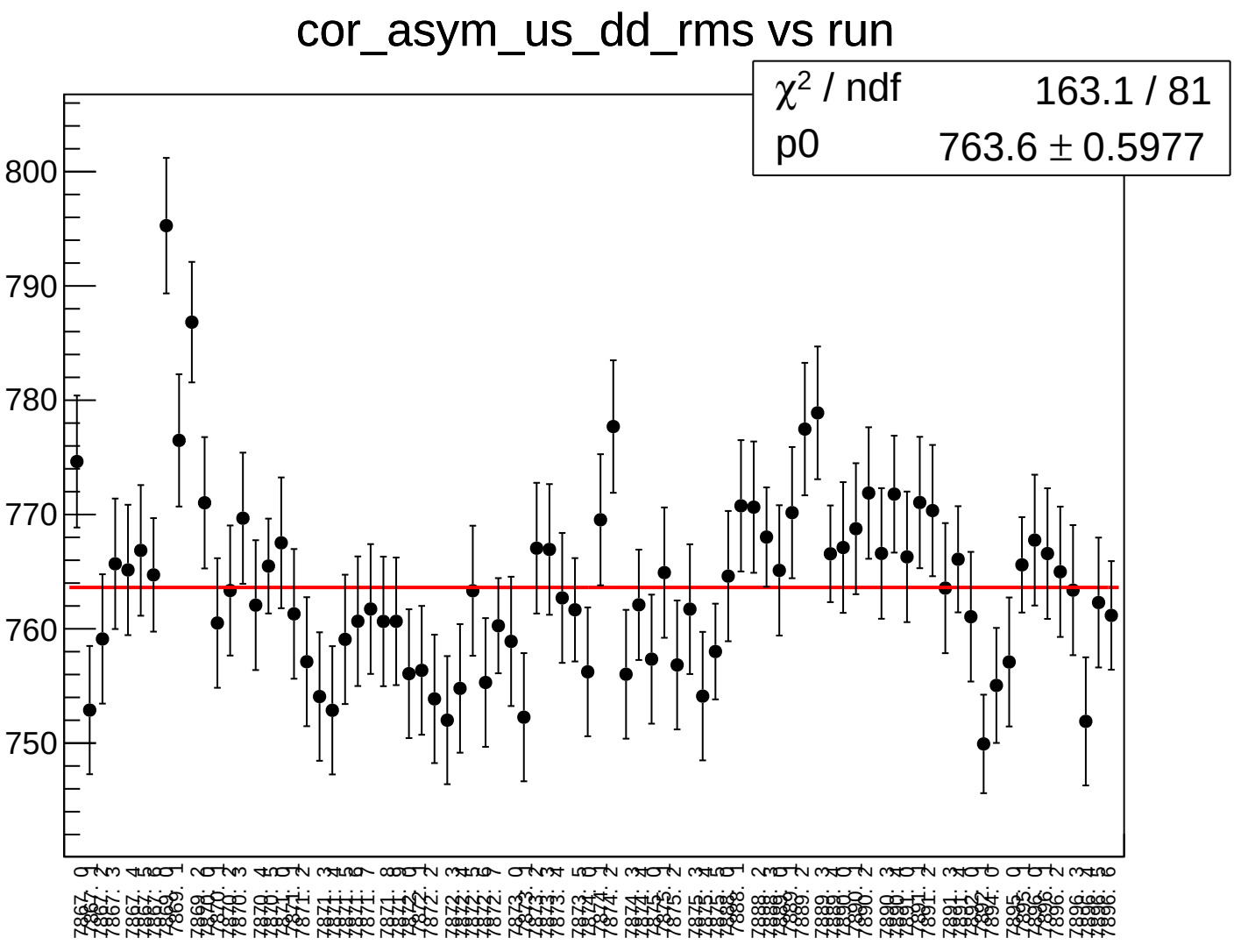

asym_us_dd_reg_correction_mean vs run
χ² / ndf 69.39 / 81
p0 −357.2 ± 1800
pull
Entries 82
Mean −69.63
Std Dev 0

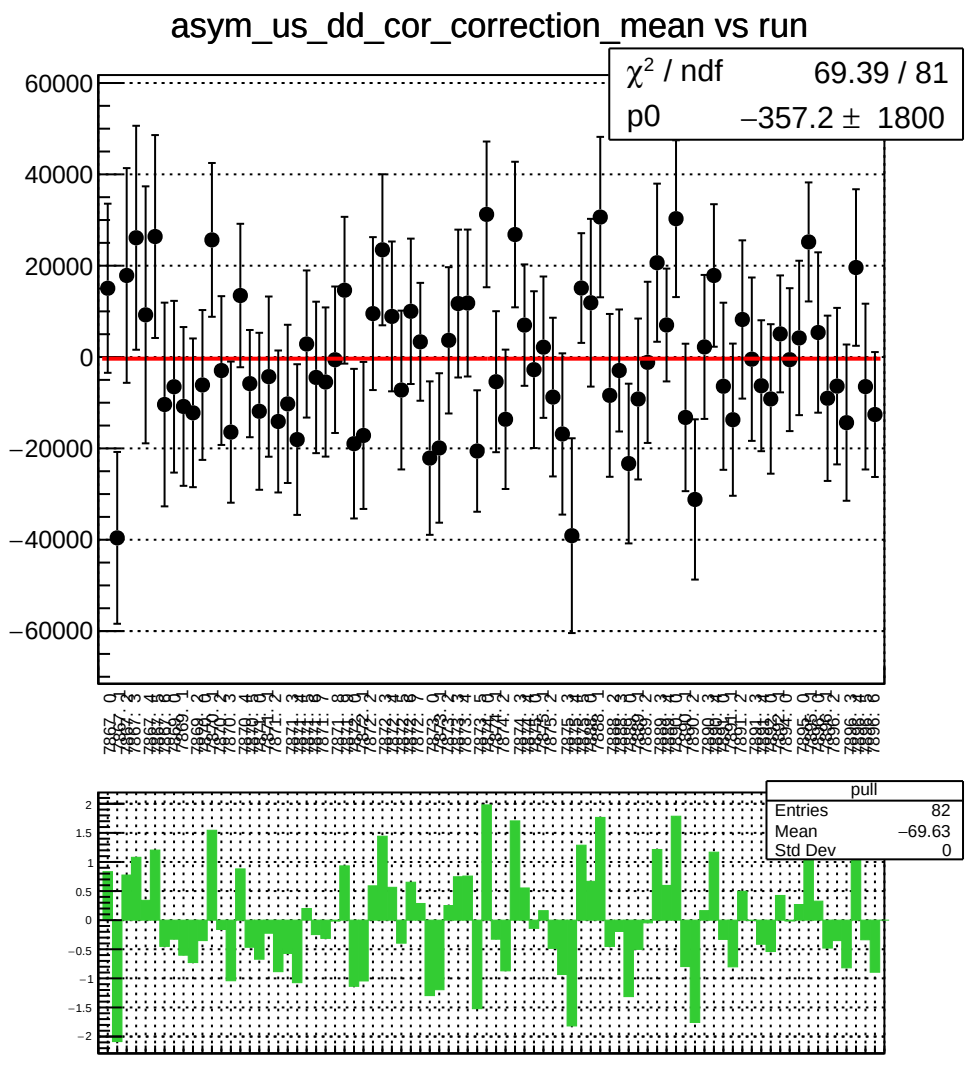

pull1D
Entries 82
Mean −0.007844
Std Dev 0.9199

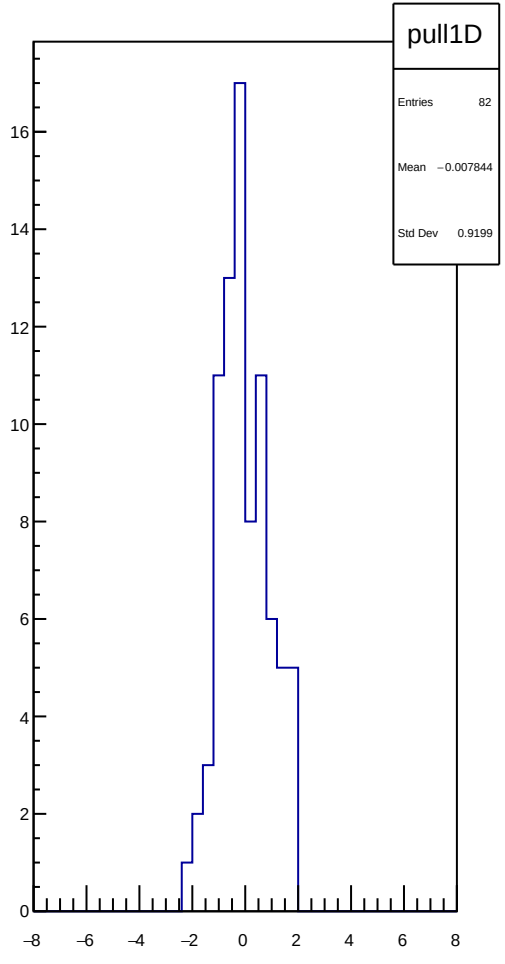

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.417e+04 / 81
p0 1619 ± 1.273
2800
2600
2400
2200
2000
1800
1600
1400

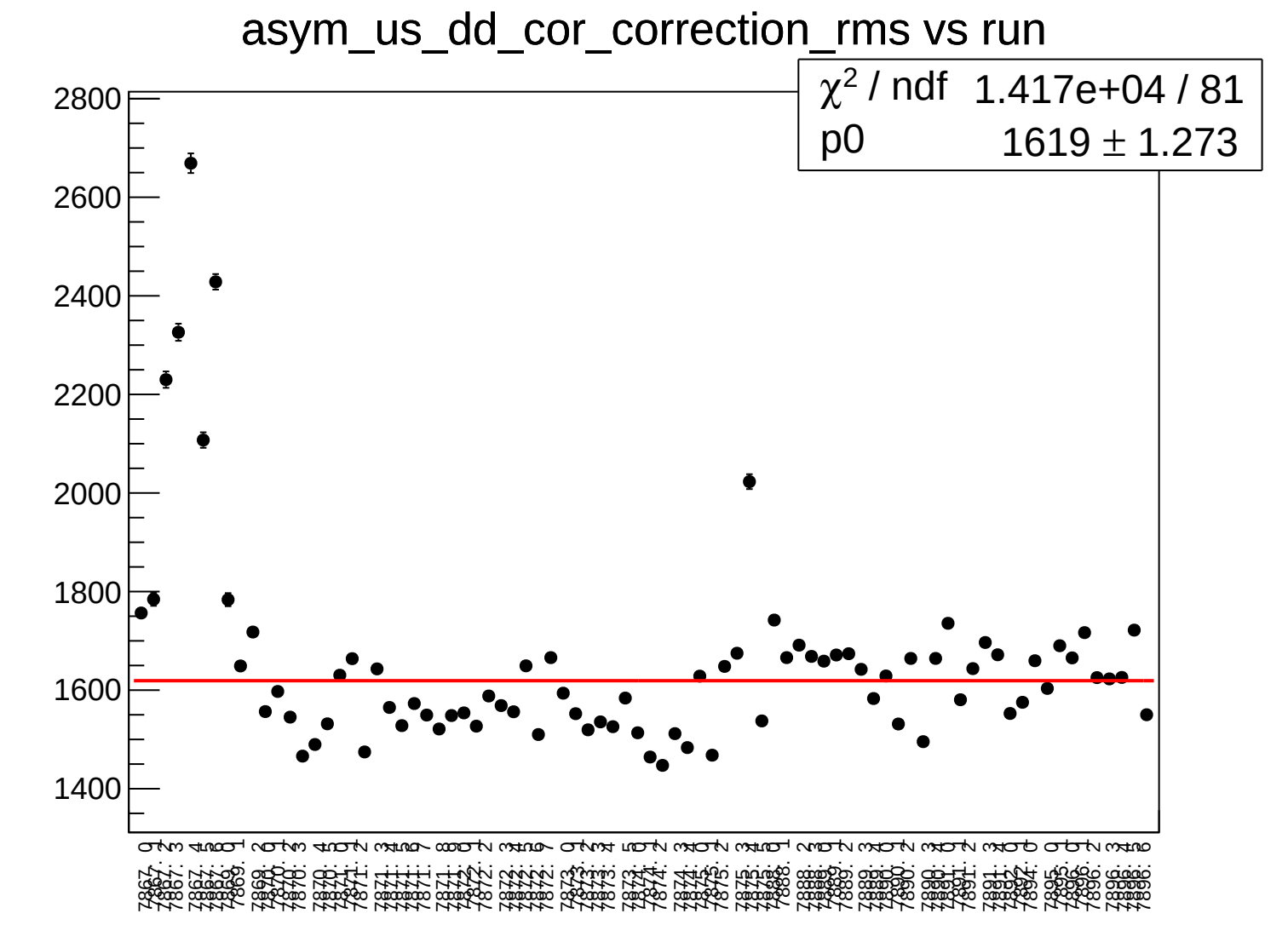

cor_asym_us_dd_mean vs run
χ² / ndf 104.9 / 81
p0 −162.9 ± 845.3
pull
Entries 82
Mean 434.2
Std Dev 0

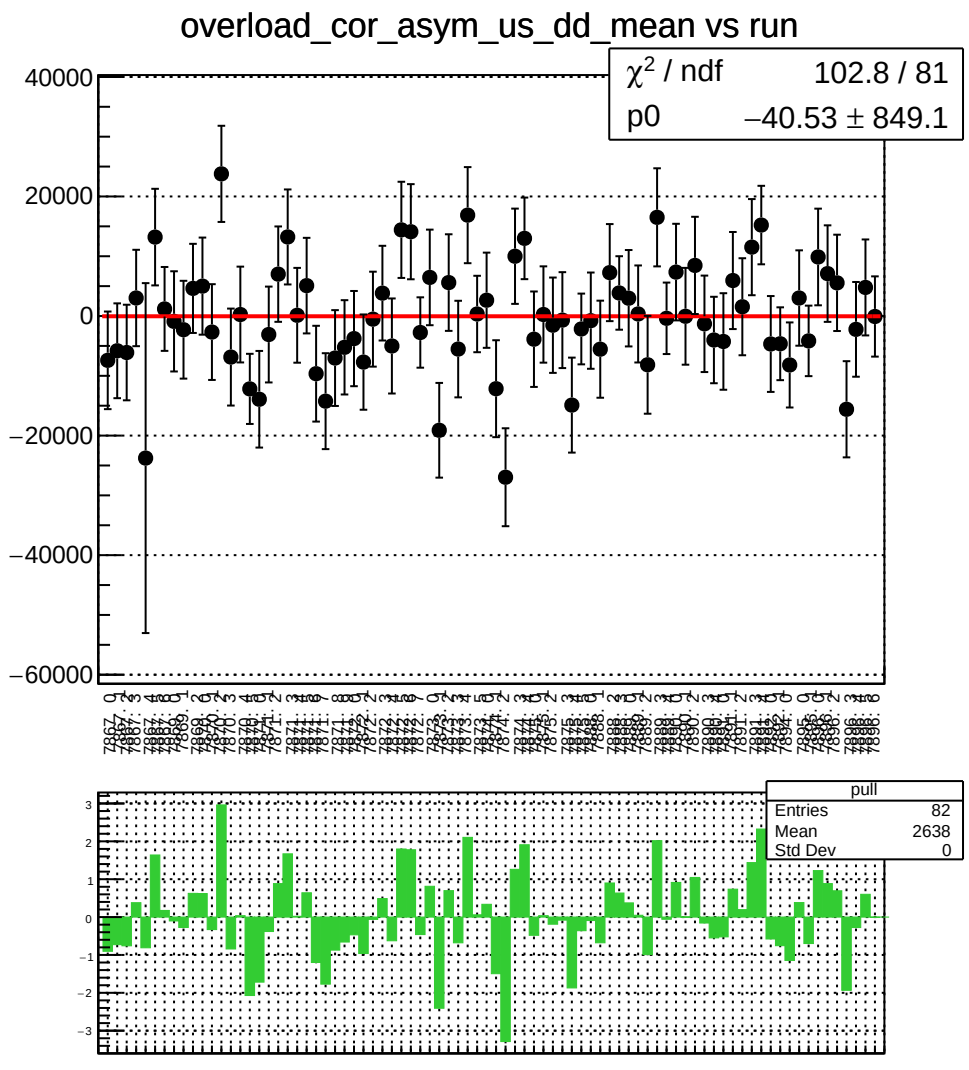

pull1D
Entries 82
Mean 0.006558
Std Dev 1.131

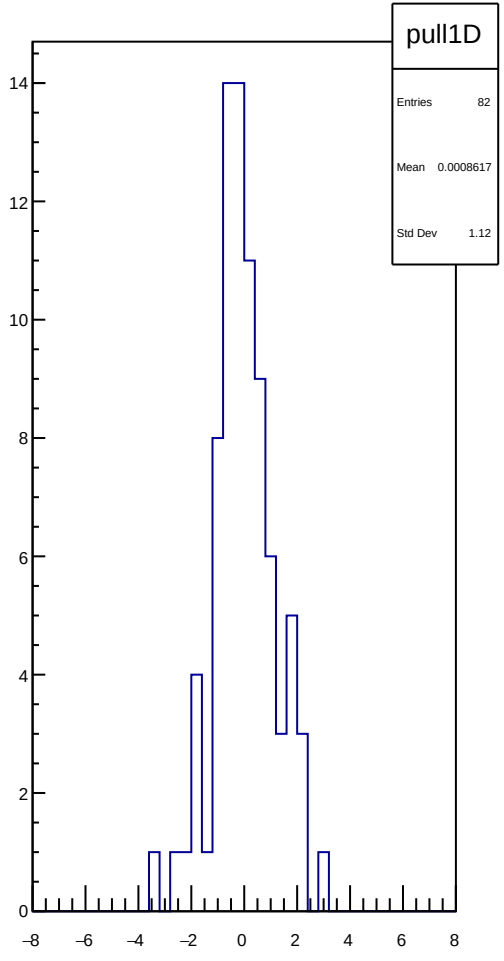

cor_asym_us_dd_rms vs run
χ² / ndf 163.1 / 81
p0 763.6 ± 0.5977
800
790
780
770
760
750

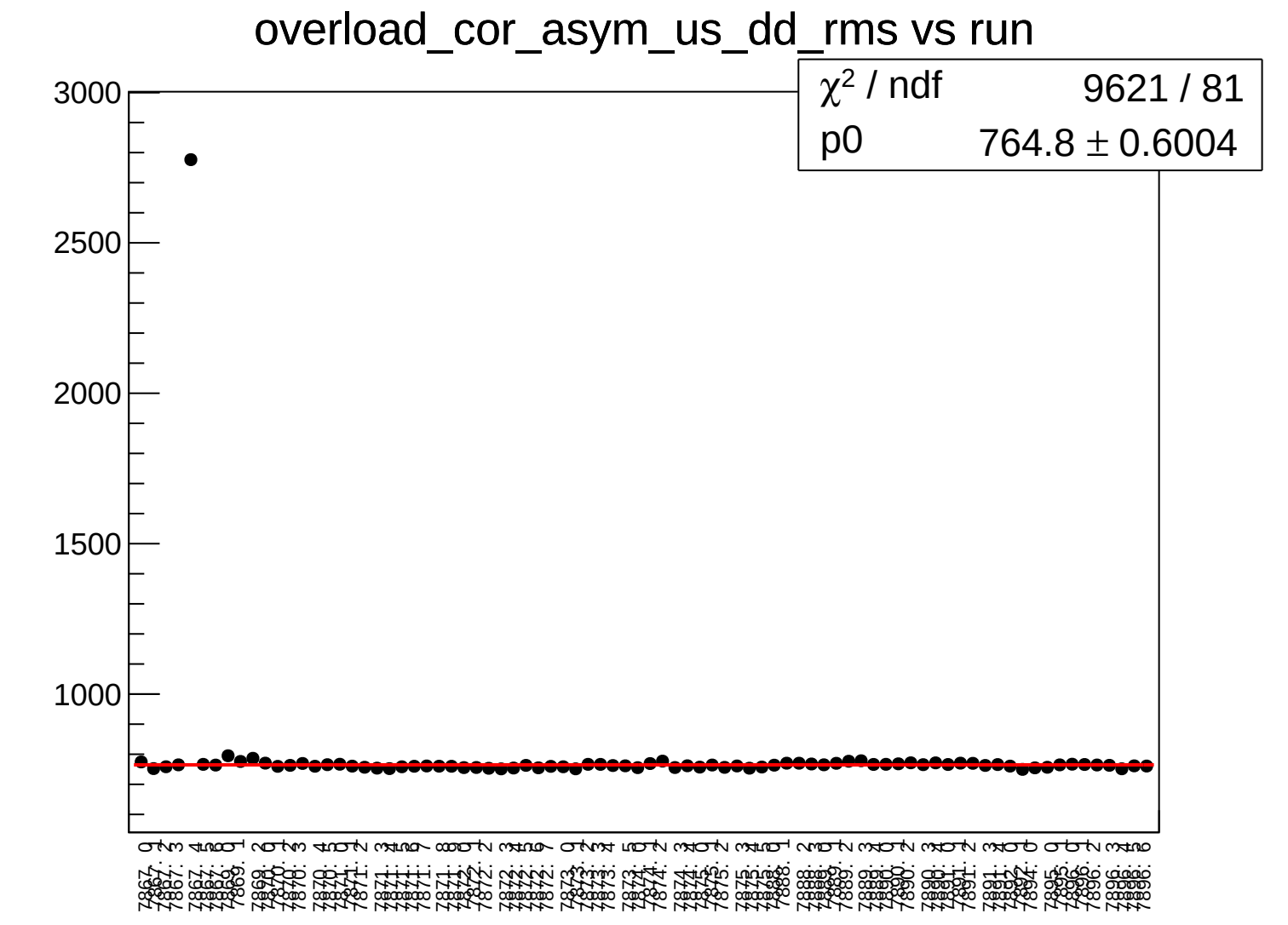

asym_us_dd_cor_correction_mean vs run
χ² / ndf 69.39 / 81
p0 −357.2 ± 1800
pull
Entries 82
Mean −69.63
Std Dev 0

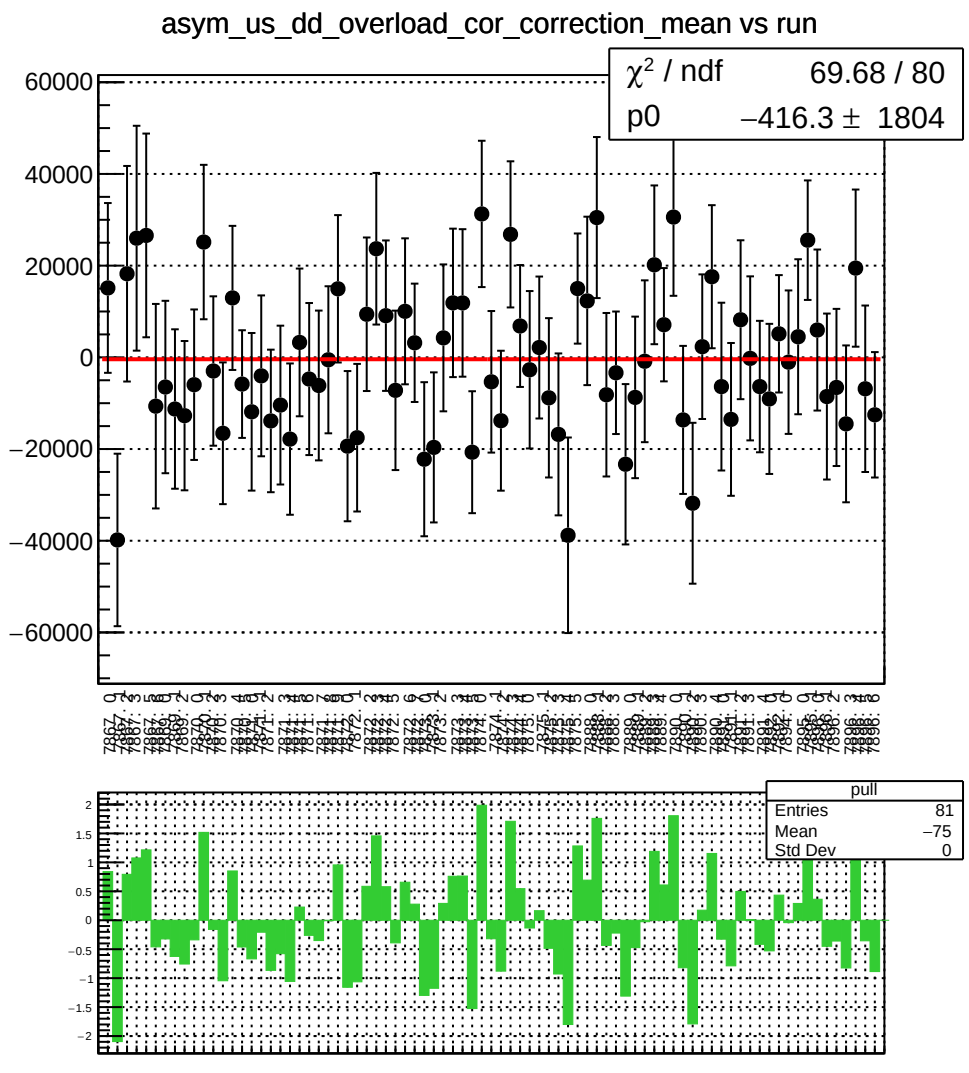

pull1D
Entries 82
Mean −0.007844
Std Dev 0.9199

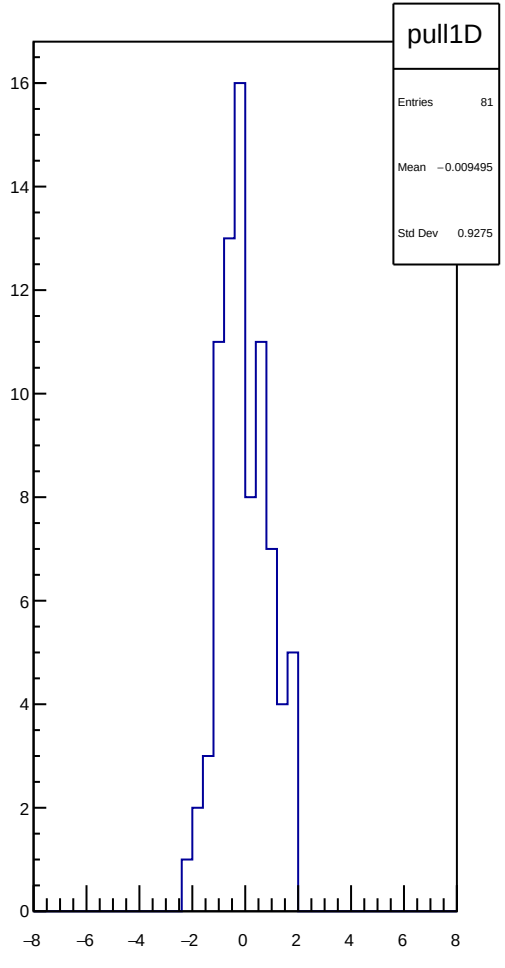

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 81
p0 1619 ± 1.273
2800
2600
2400
2200
2000
1800
1600
1400

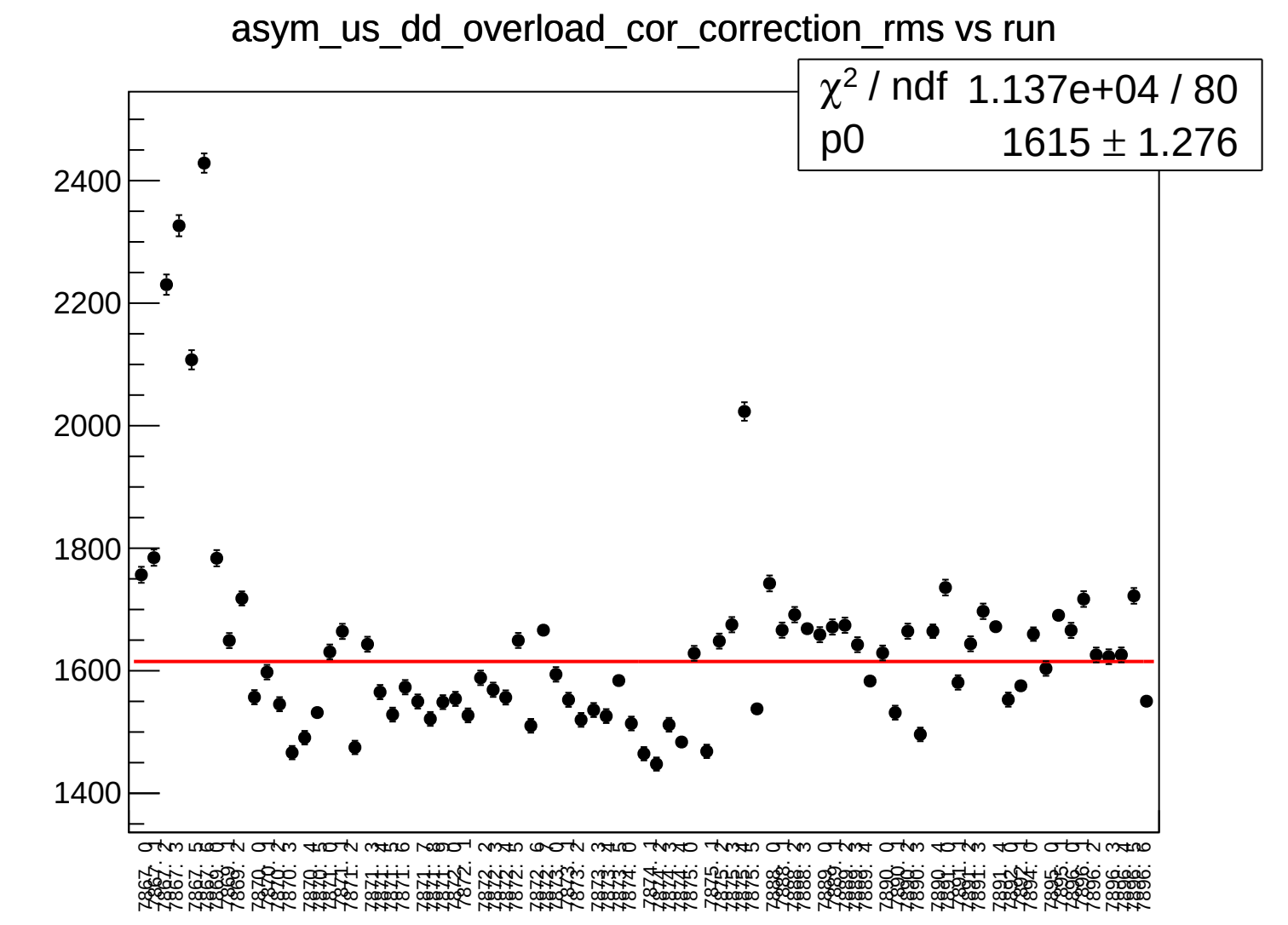

overload_cor_asym_us_dd_mean vs run
χ² / ndf 102.8 / 81
p0 −40.53 ± 849.1
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 2638
Std Dev 0
3
2
1
0
−1
−2
−3

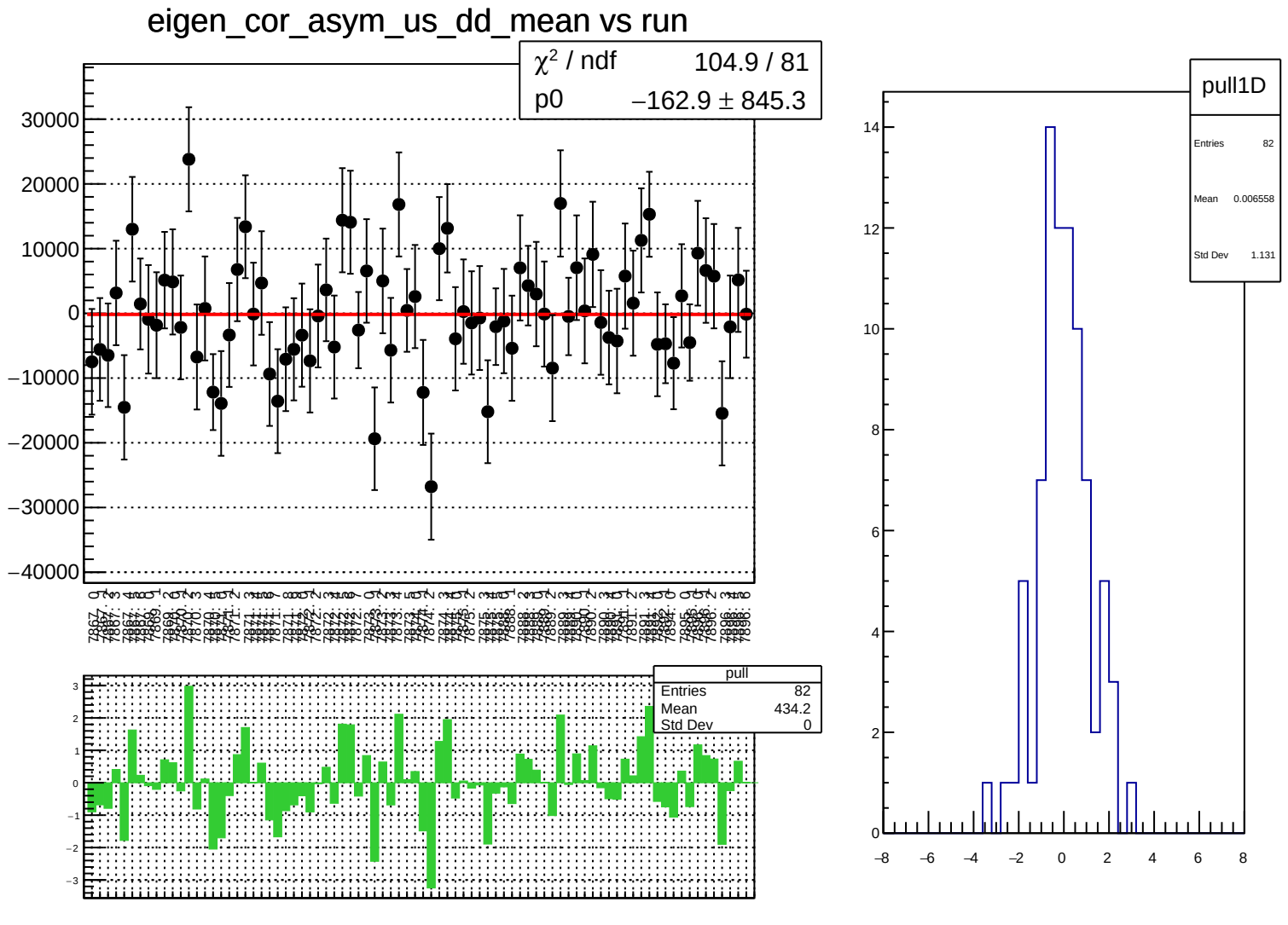

pull1D
Entries 82
Mean 0.0008617
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

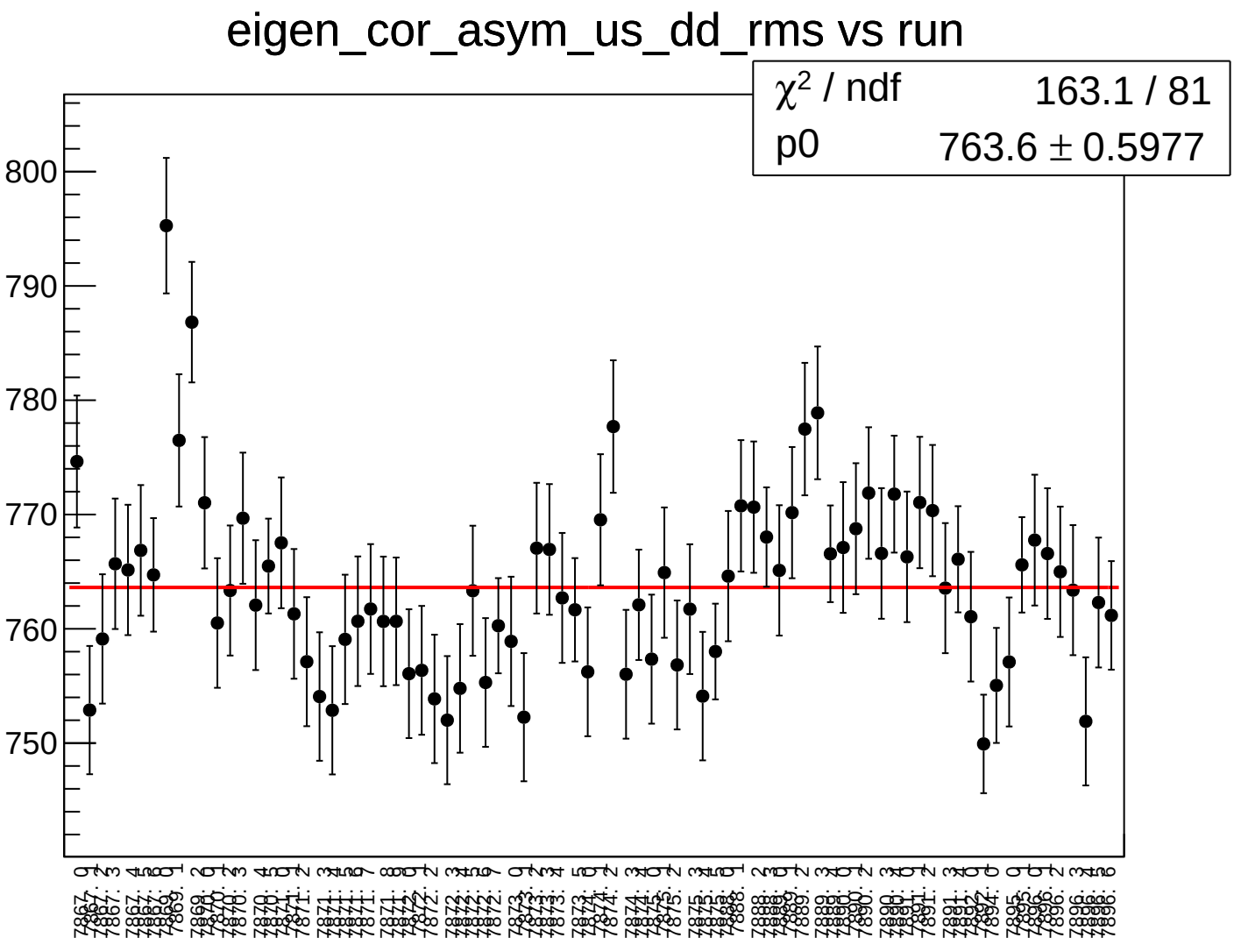

overload_cor_asym_us_dd_rms vs run
χ² / ndf 9621 / 81
p0 764.8 ± 0.6004
3000
2500
2000
1500
1000

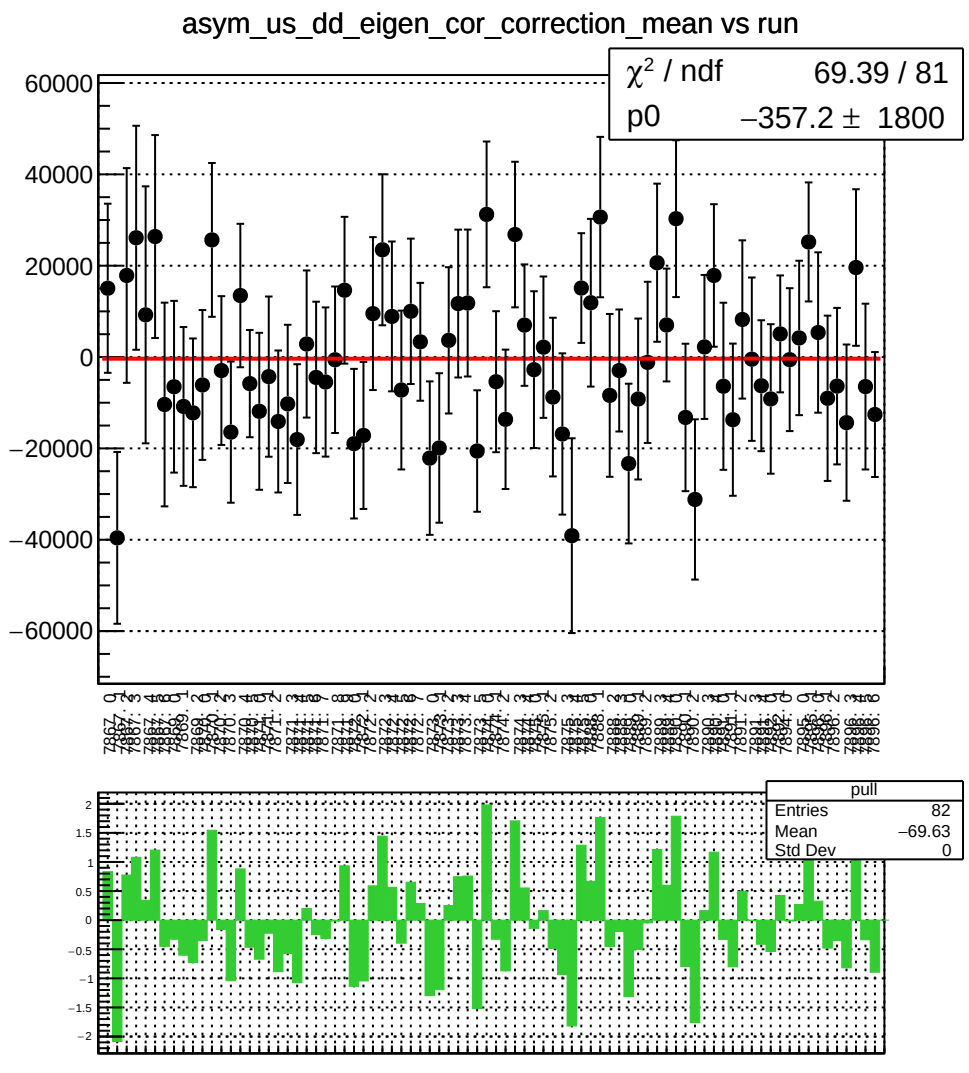

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 69.68 / 80
p0 −416.3 ± 1804
pull
Entries 81
Mean −75
Std Dev 0

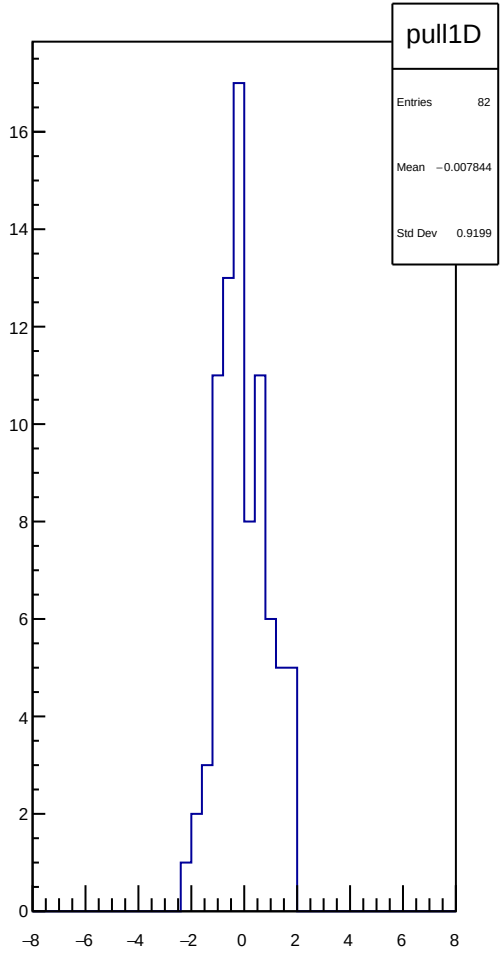

pull1D
Entries 81
Mean −0.009495
Std Dev 0.9275

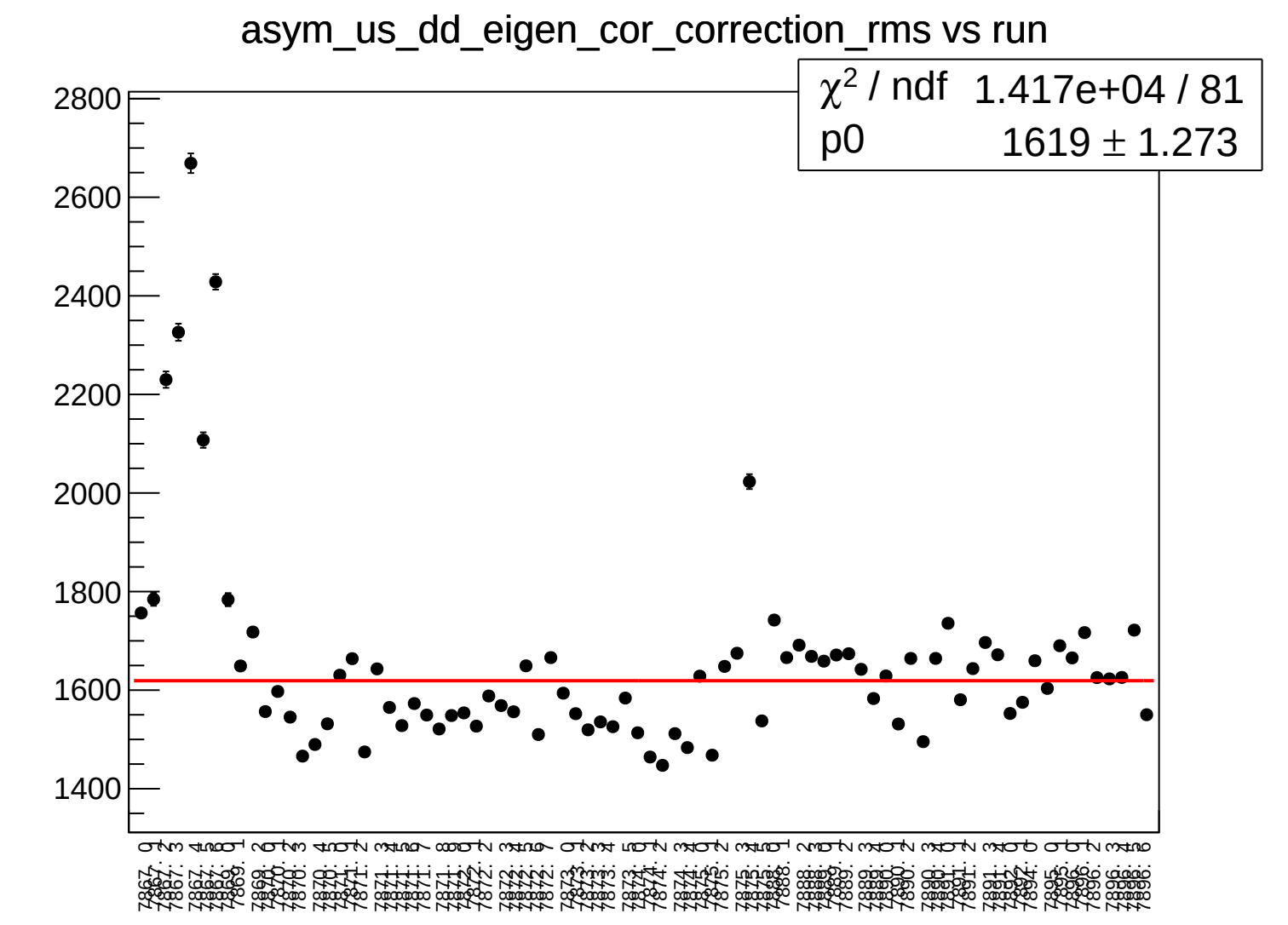

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.137e+04 / 80
p0 1615 ± 1.276
2400
2200
2000
1800
1600
1400

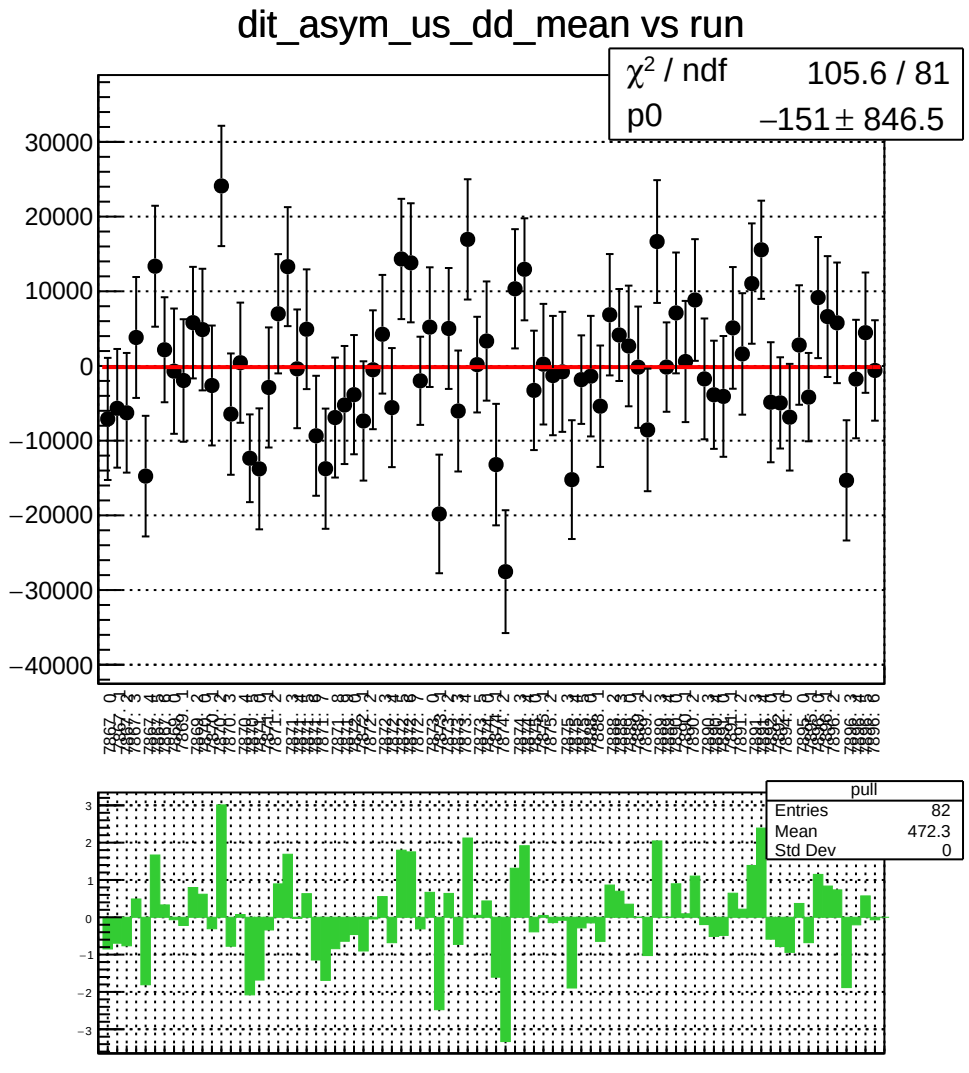

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 104.9 / 81
p0 −162.9 ± 845.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 434.2
Std Dev 0
pull1D
Entries 82
Mean 0.006558
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

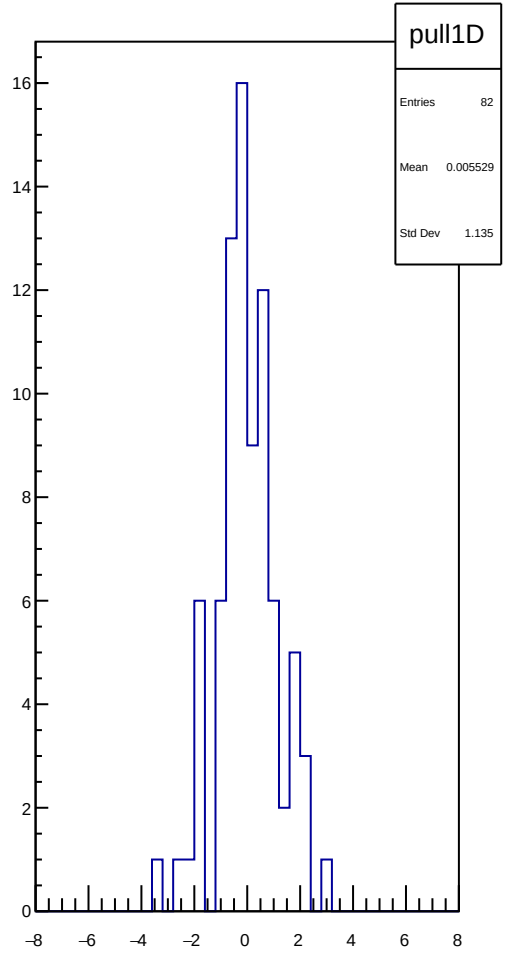

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 163.1 / 81
p0 763.6 ± 0.5977
800
790
780
770
760
750

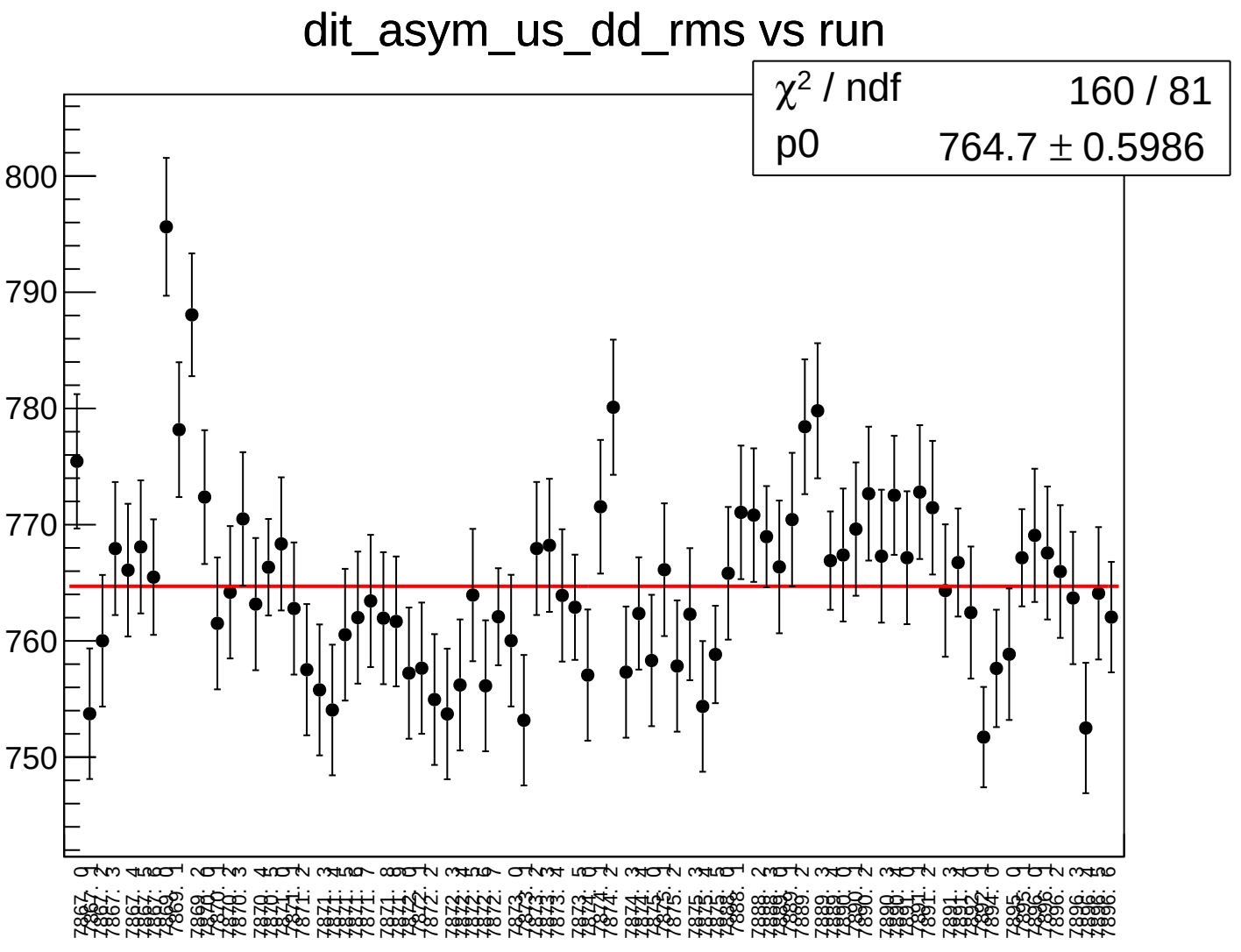

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.39 / 81
p0 −357.2 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −69.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

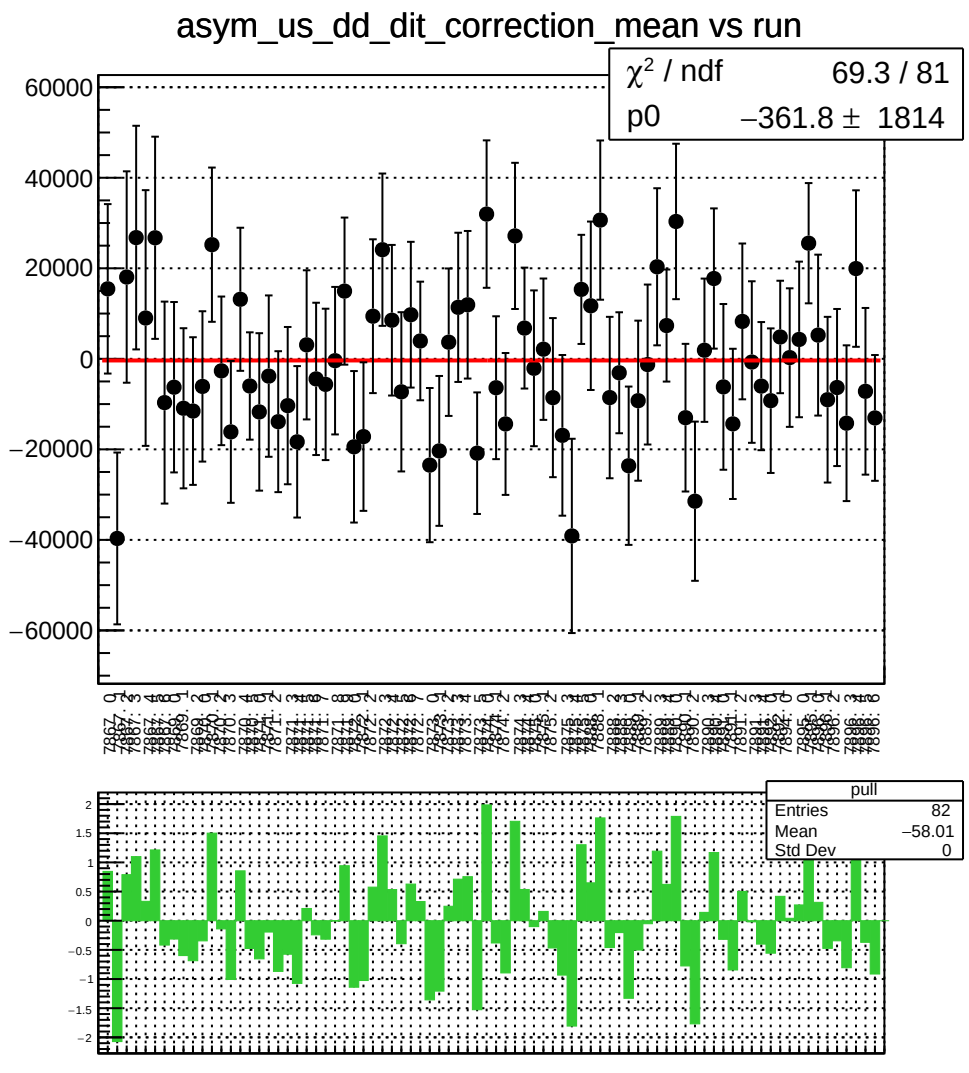

pull1D
Entries 82
Mean −0.007844
Std Dev 0.9199
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

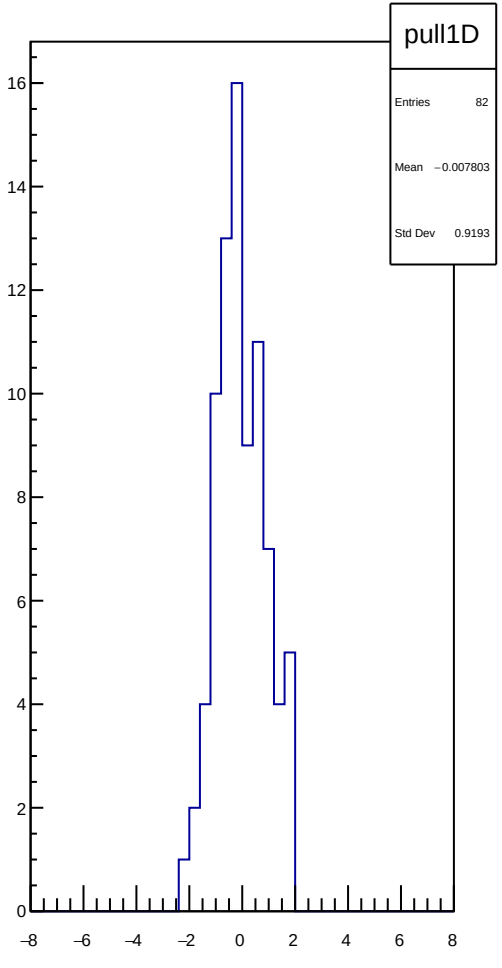

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 81
p0 1619 ± 1.273
2800
2600
2400
2200
2000
1800
1600
1400

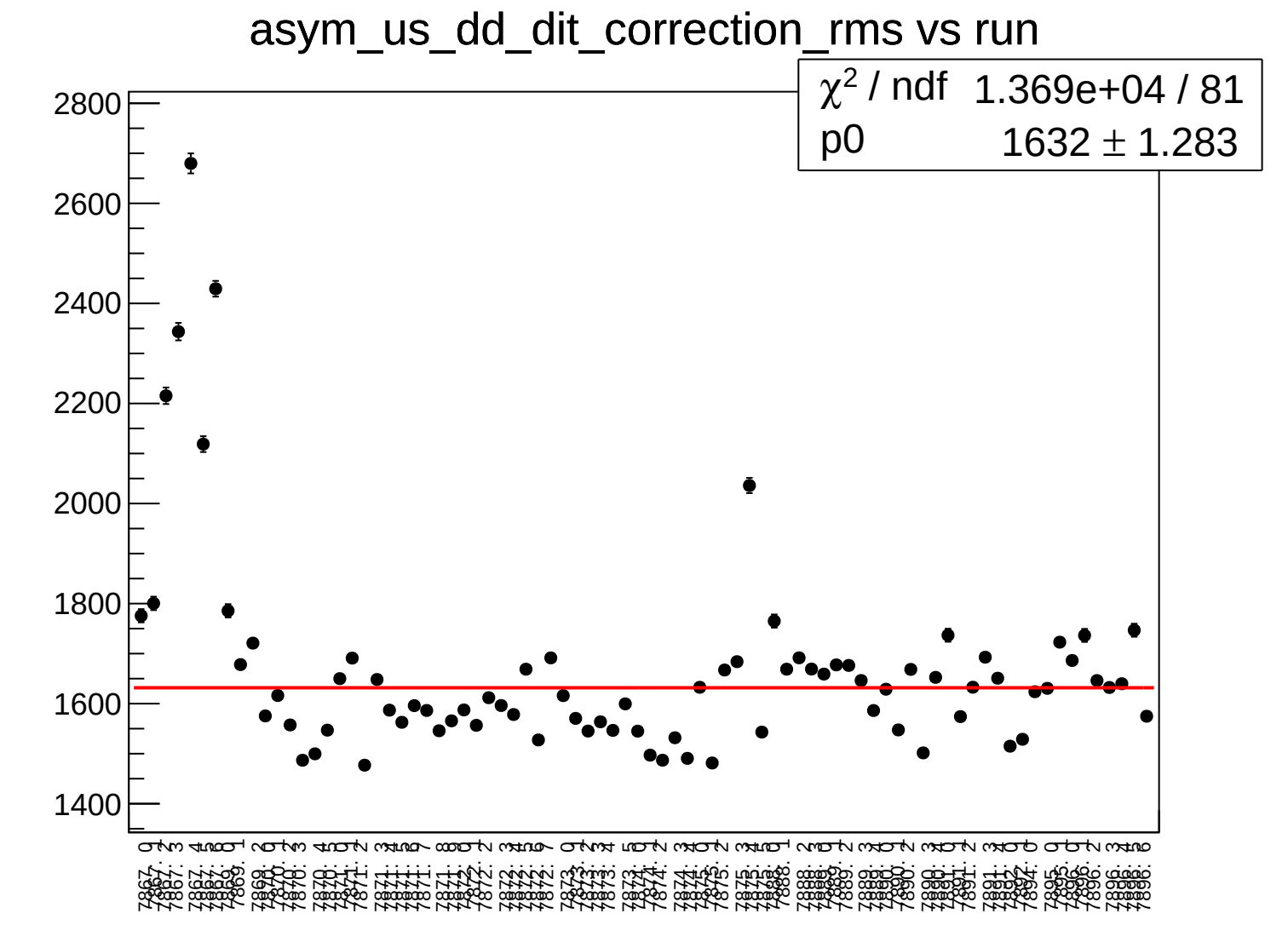

dit_asym_us_dd_mean vs run
χ² / ndf 105.6 / 81
p0 −151 ± 846.5
pull
Entries 82
Mean 472.3
Std Dev 0

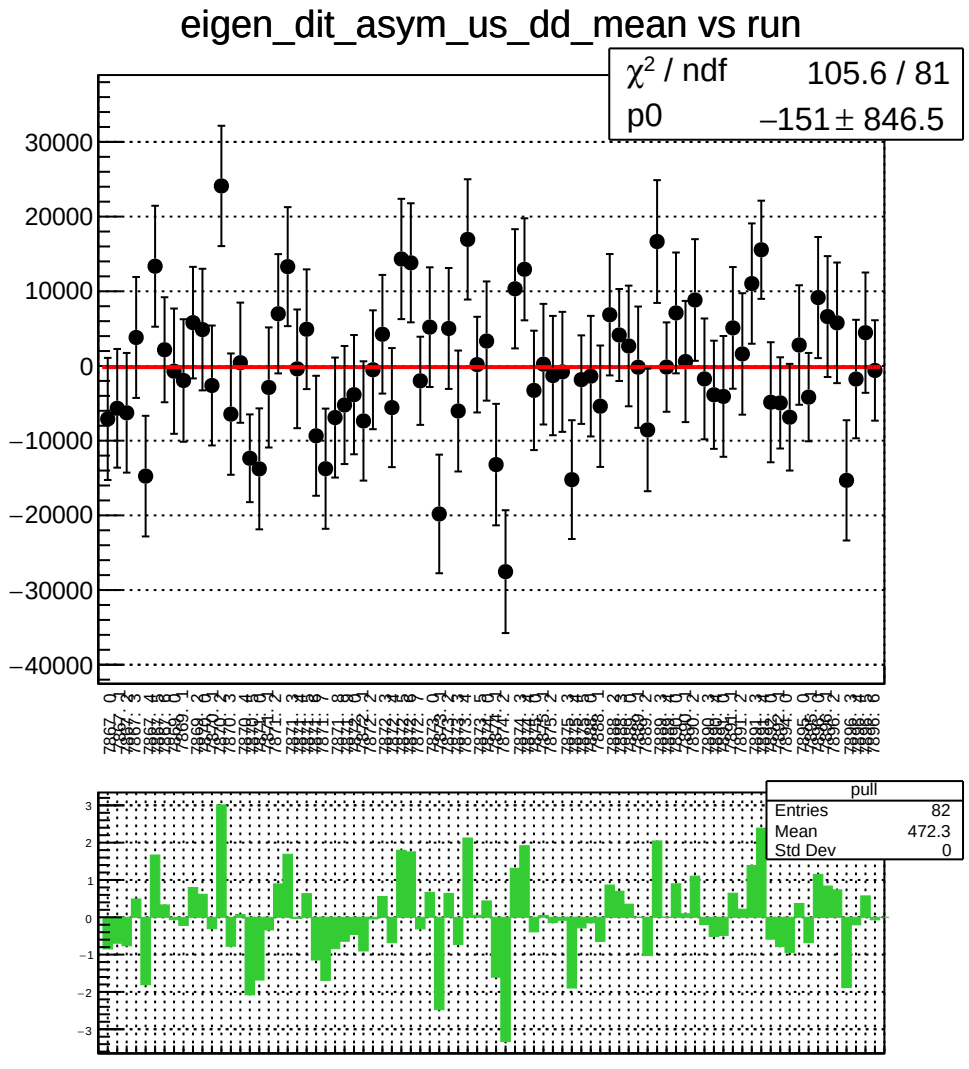

pull1D
Entries 82
Mean 0.005529
Std Dev 1.135

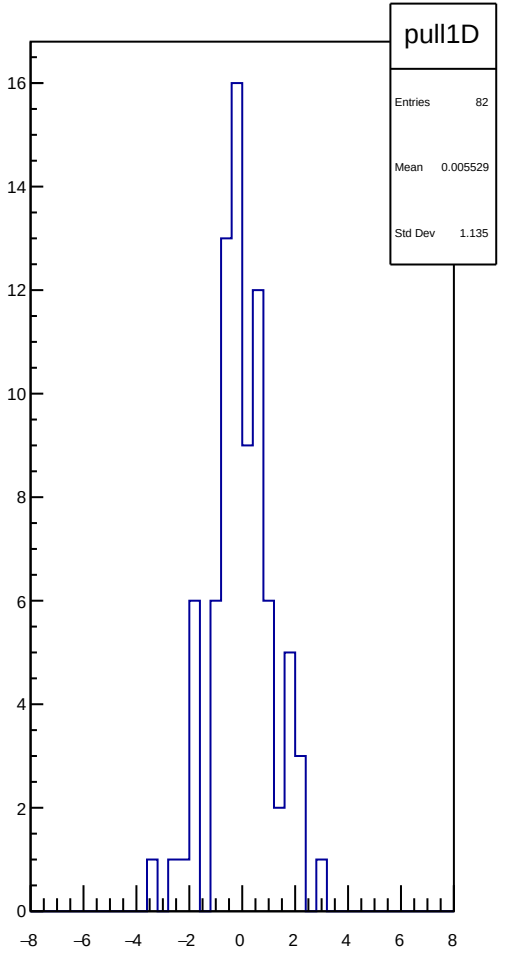

dit_asym_us_dd_rms vs run
χ² / ndf 160 / 81
p0 764.7 ± 0.5986
800
790
780
770
760
750

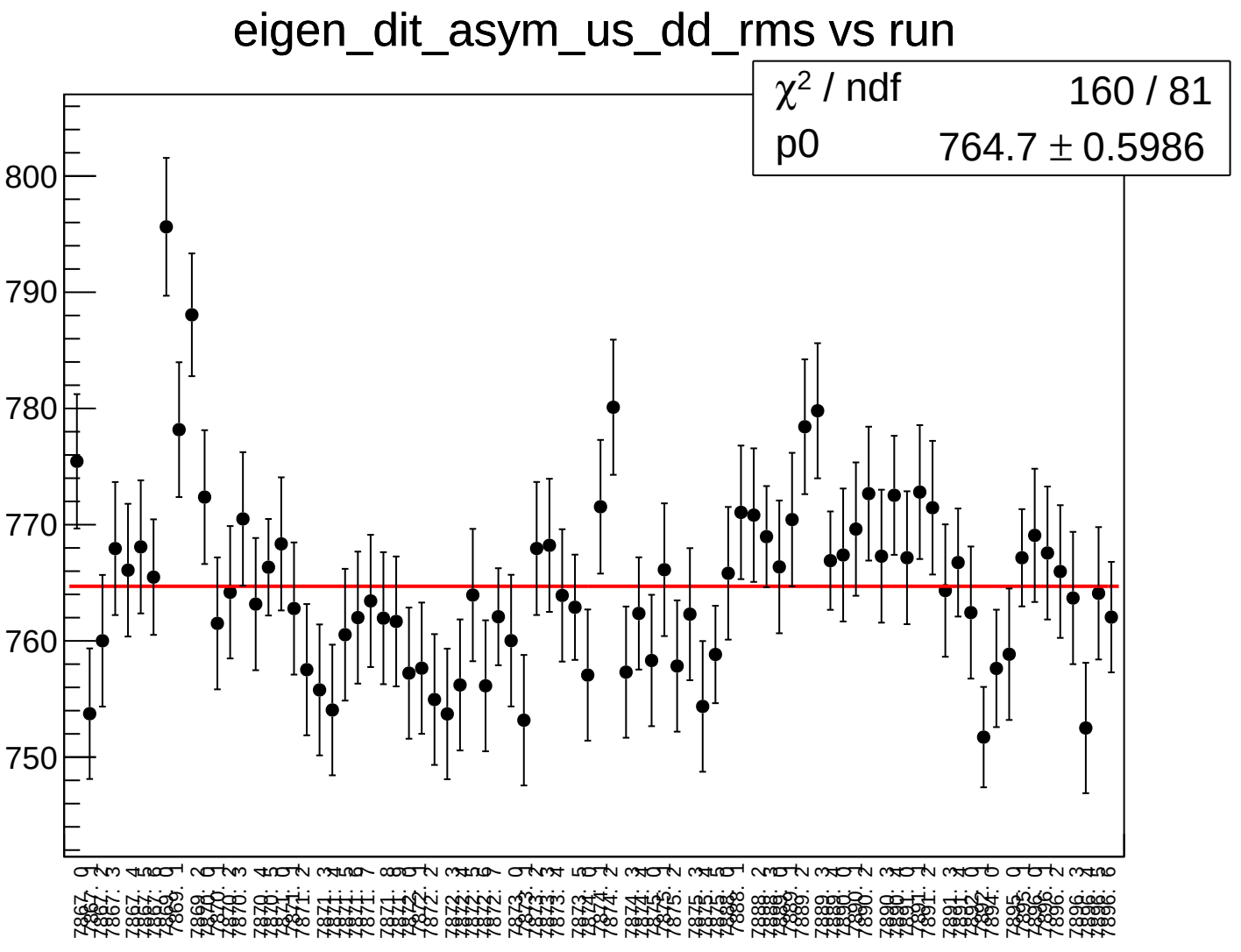

asym_us_dd_dit_correction_mean vs run
χ² / ndf 69.3 / 81
p0 −361.8 ± 1814
pull
Entries 82
Mean −58.01
Std Dev 0

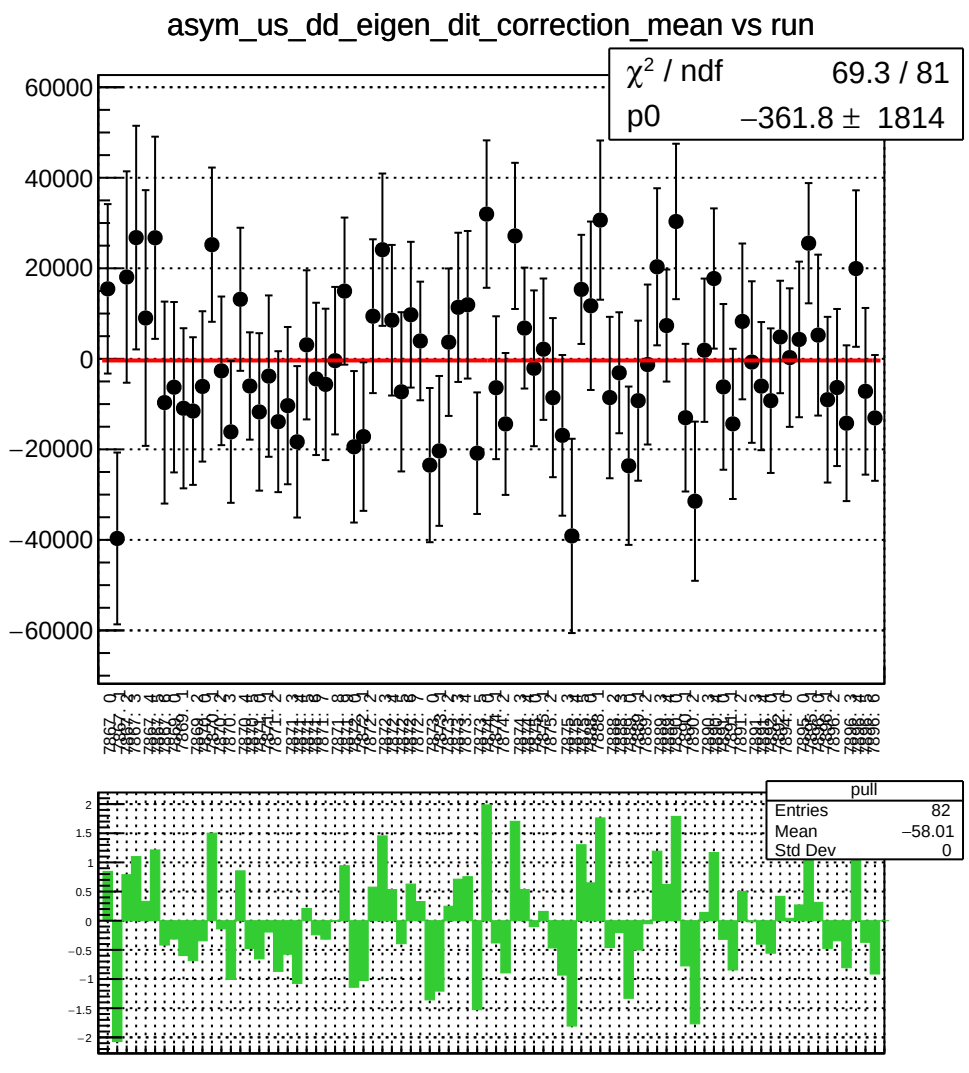

pull1D
Entries 82
Mean −0.007803
Std Dev 0.9193

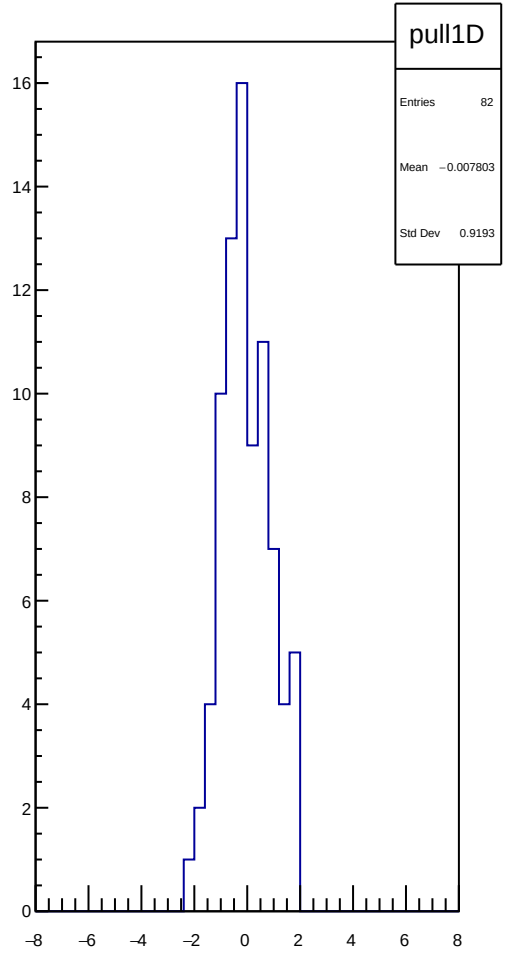

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.369e+04 / 81
p0 1632 ± 1.283
2800
2600
2400
2200
2000
1800
1600
1400

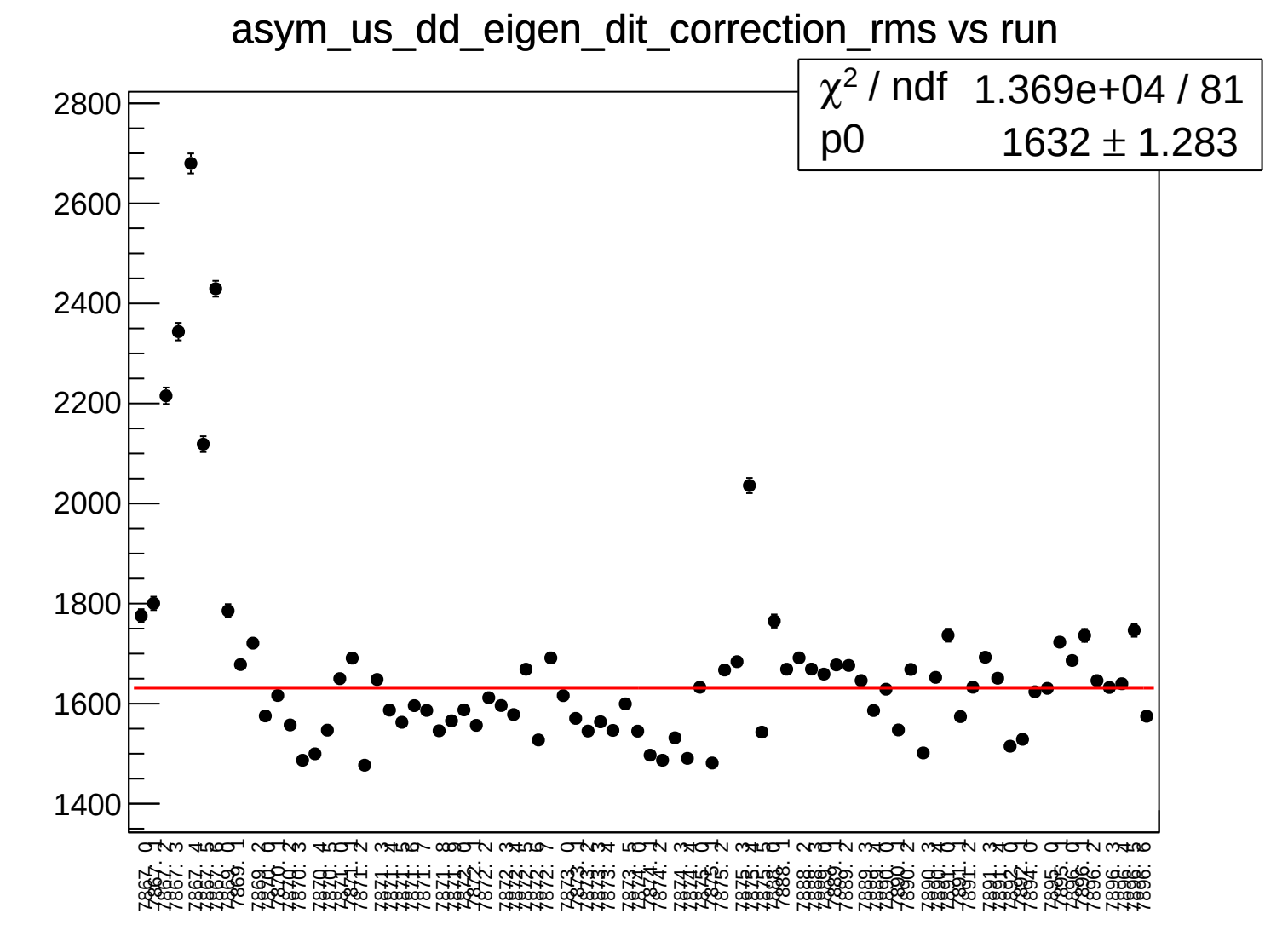

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 105.6 / 81
p0 −151 ± 846.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 472.3
Std Dev 0
3
2
1
0
−1
−2
−3

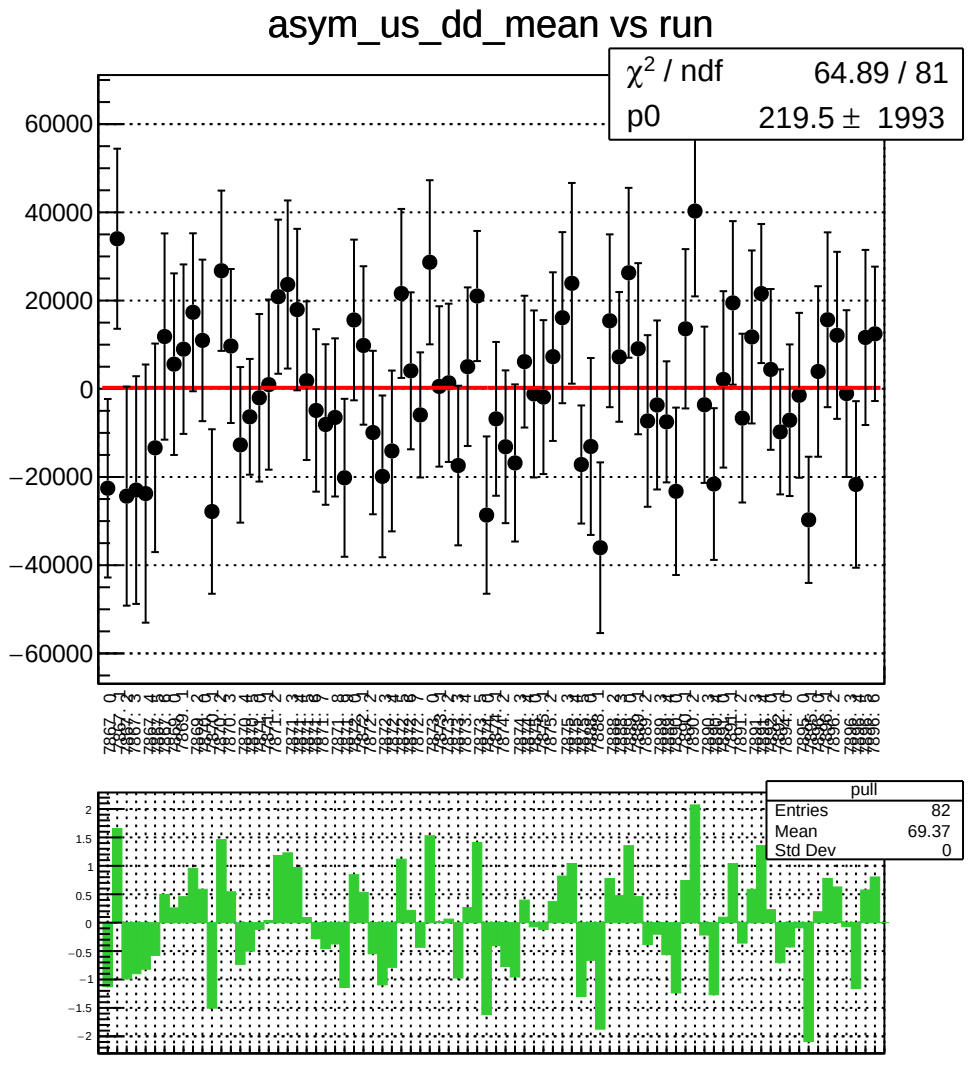

pull1D
Entries 82
Mean 0.005529
Std Dev 1.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

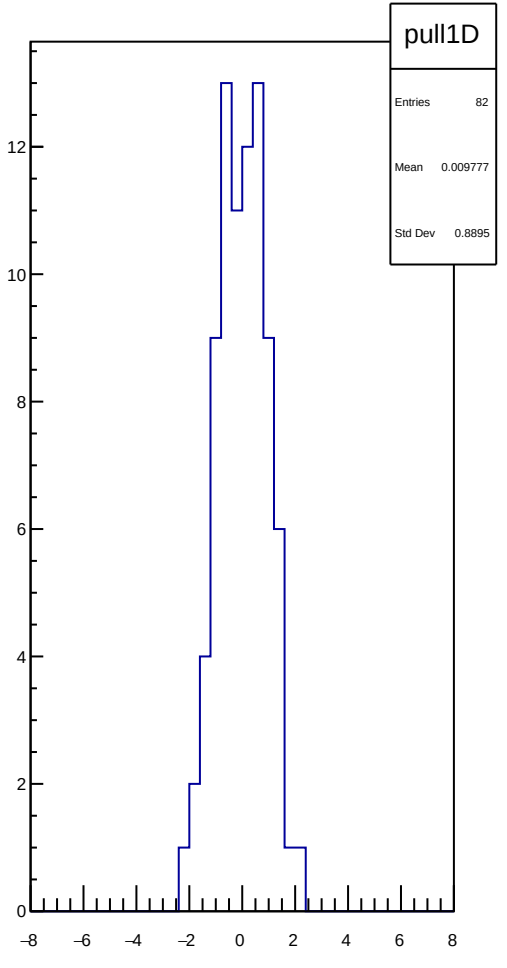

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 160 / 81
p0 764.7 ± 0.5986
800
790
780
770
760
750

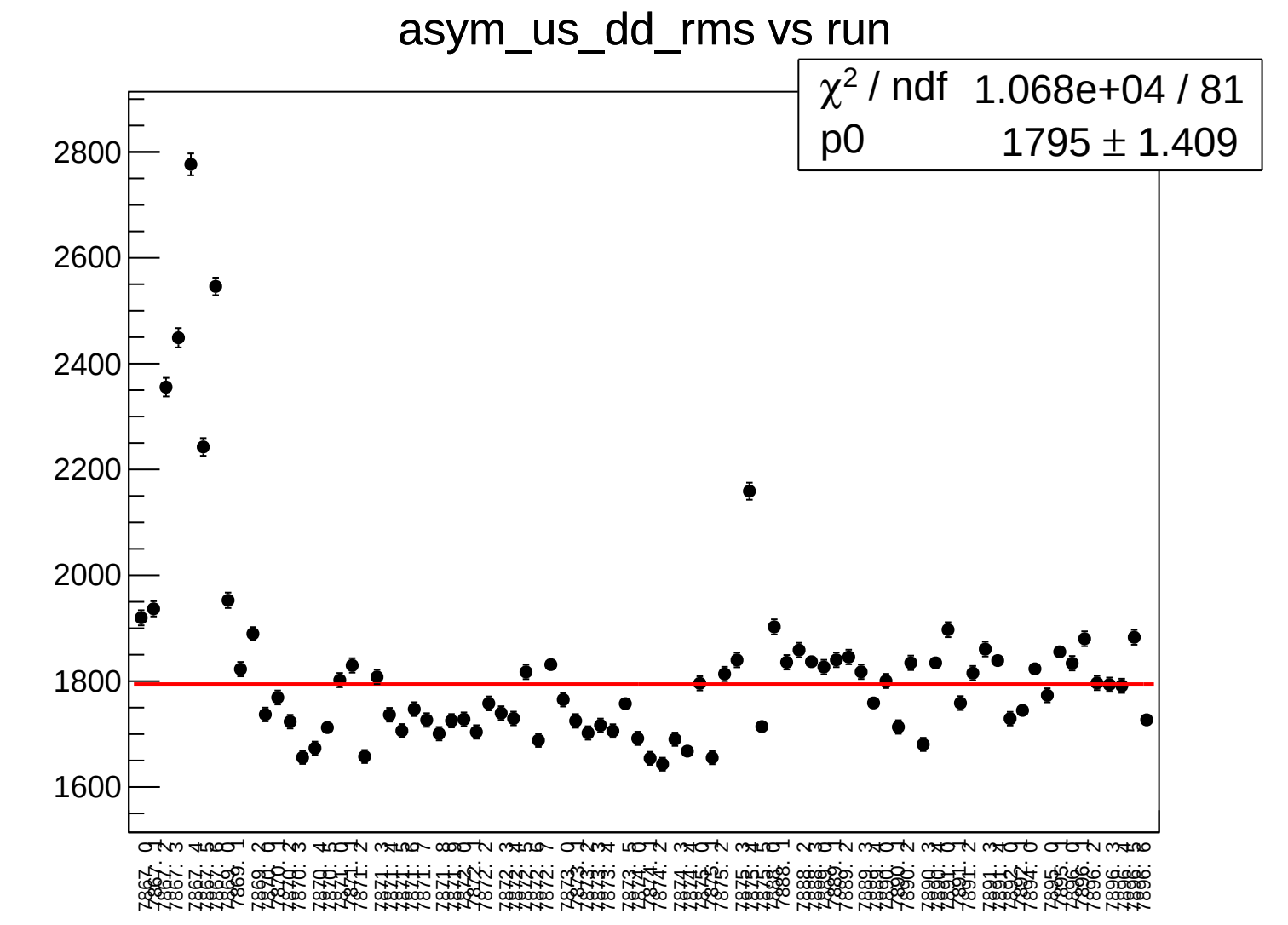

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.3 / 81
p0 −361.8 ± 1814
pull
Entries 82
Mean −58.01
Std Dev 0

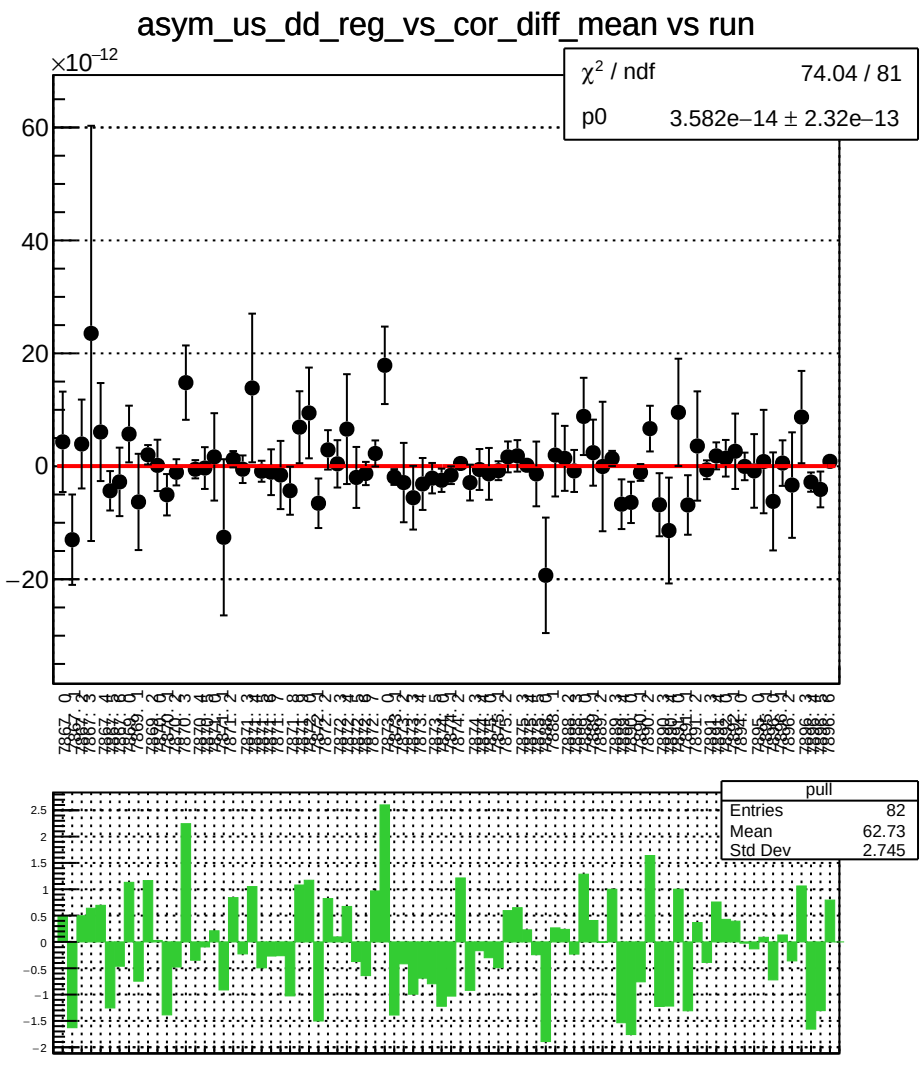

pull1D
Entries 82
Mean −0.007803
Std Dev 0.9193

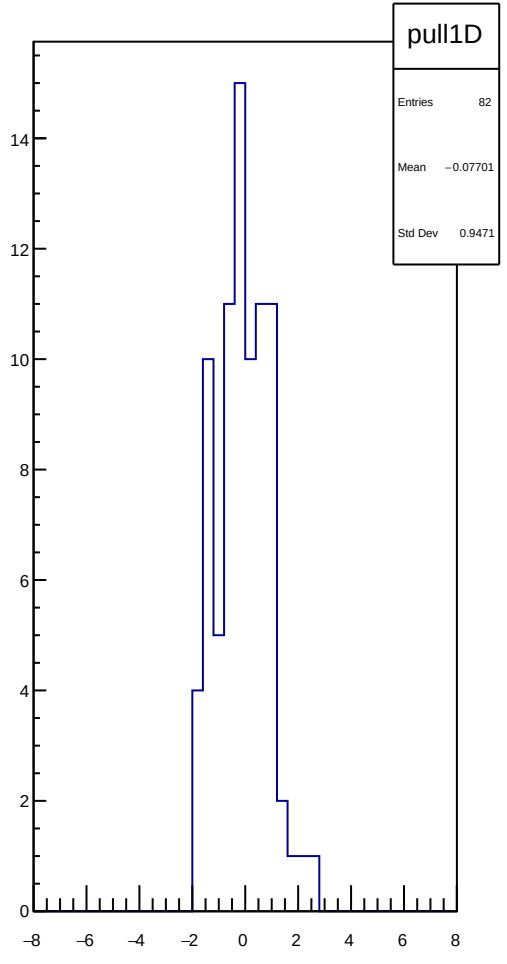

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.369e+04 / 81
p0 1632 ± 1.283
2800
2600
2400
2200
2000
1800
1600
1400

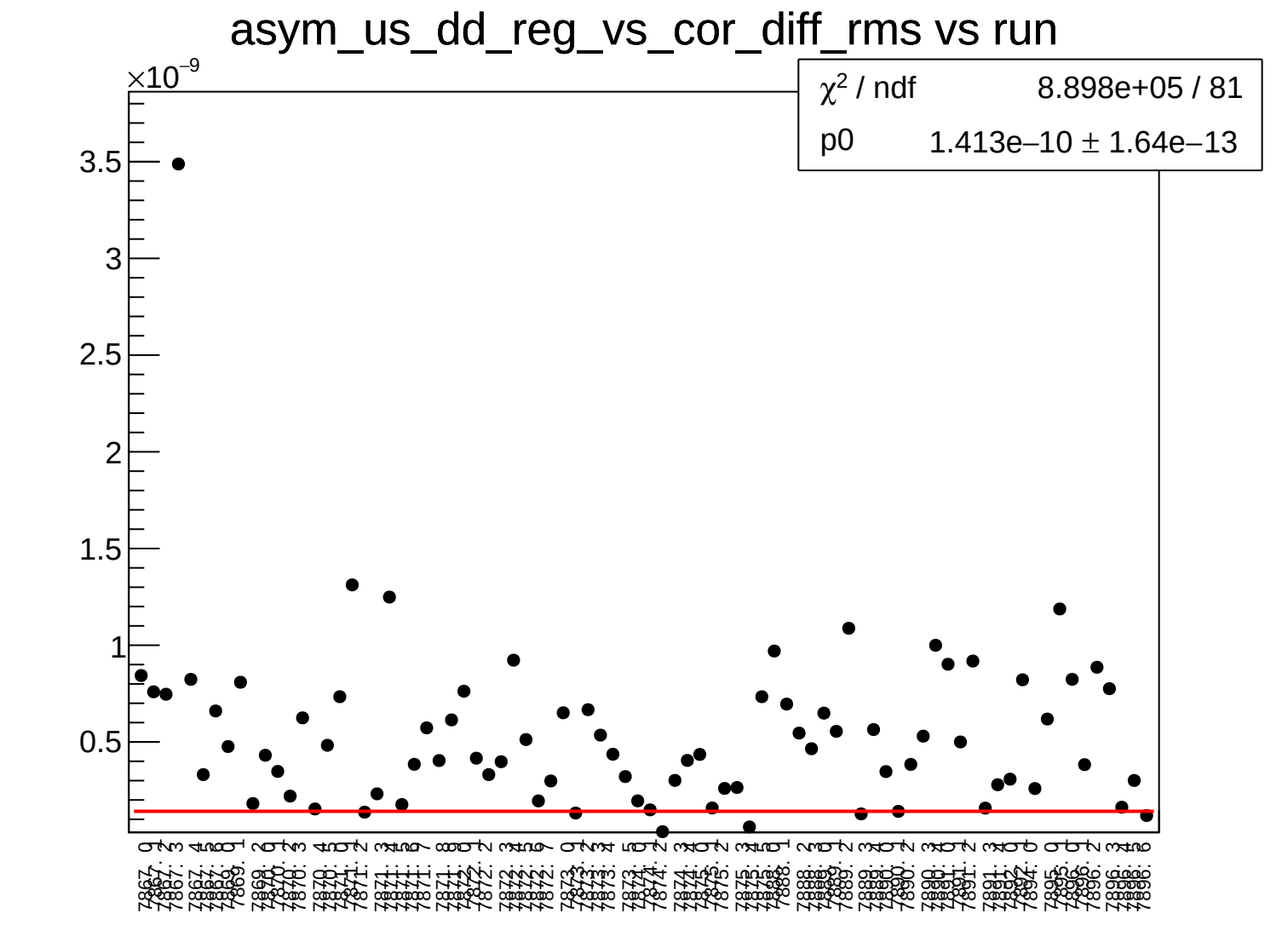

asym_us_dd_mean vs run
χ² / ndf 64.89 / 81
p0 219.5 ± 1993
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 69.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

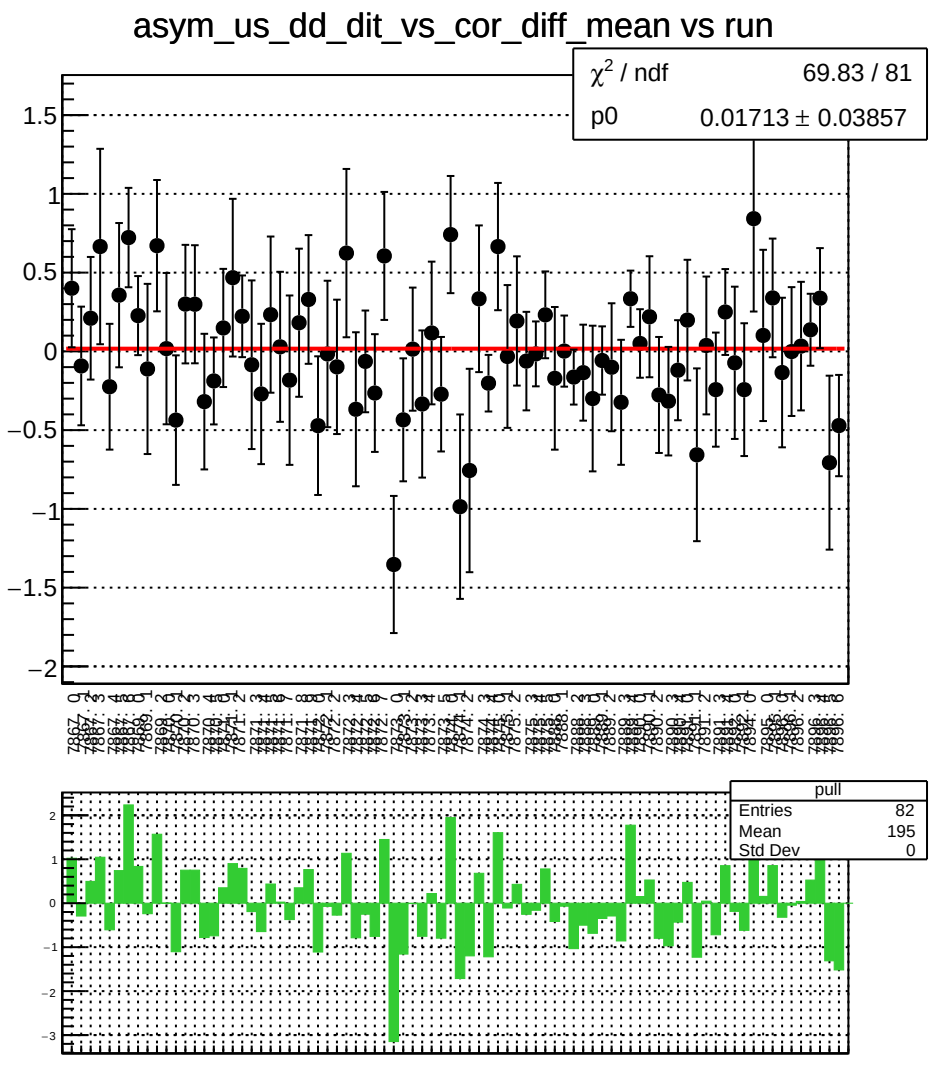

pull1D
Entries 82
Mean 0.009777
Std Dev 0.8895
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

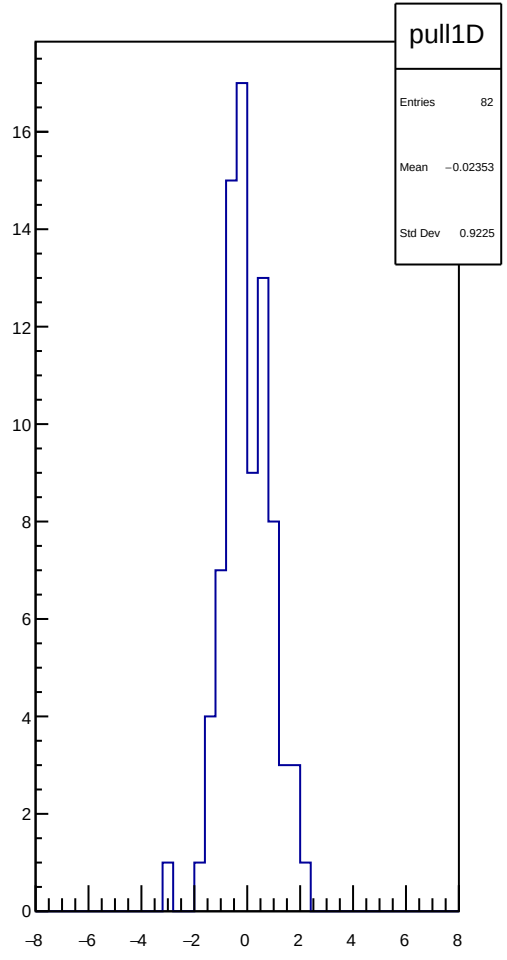

asym_us_dd_rms vs run
χ² / ndf 1.068e+04 / 81
p0 1795 ± 1.409
2800
2600
2400
2200
2000
1800
1600

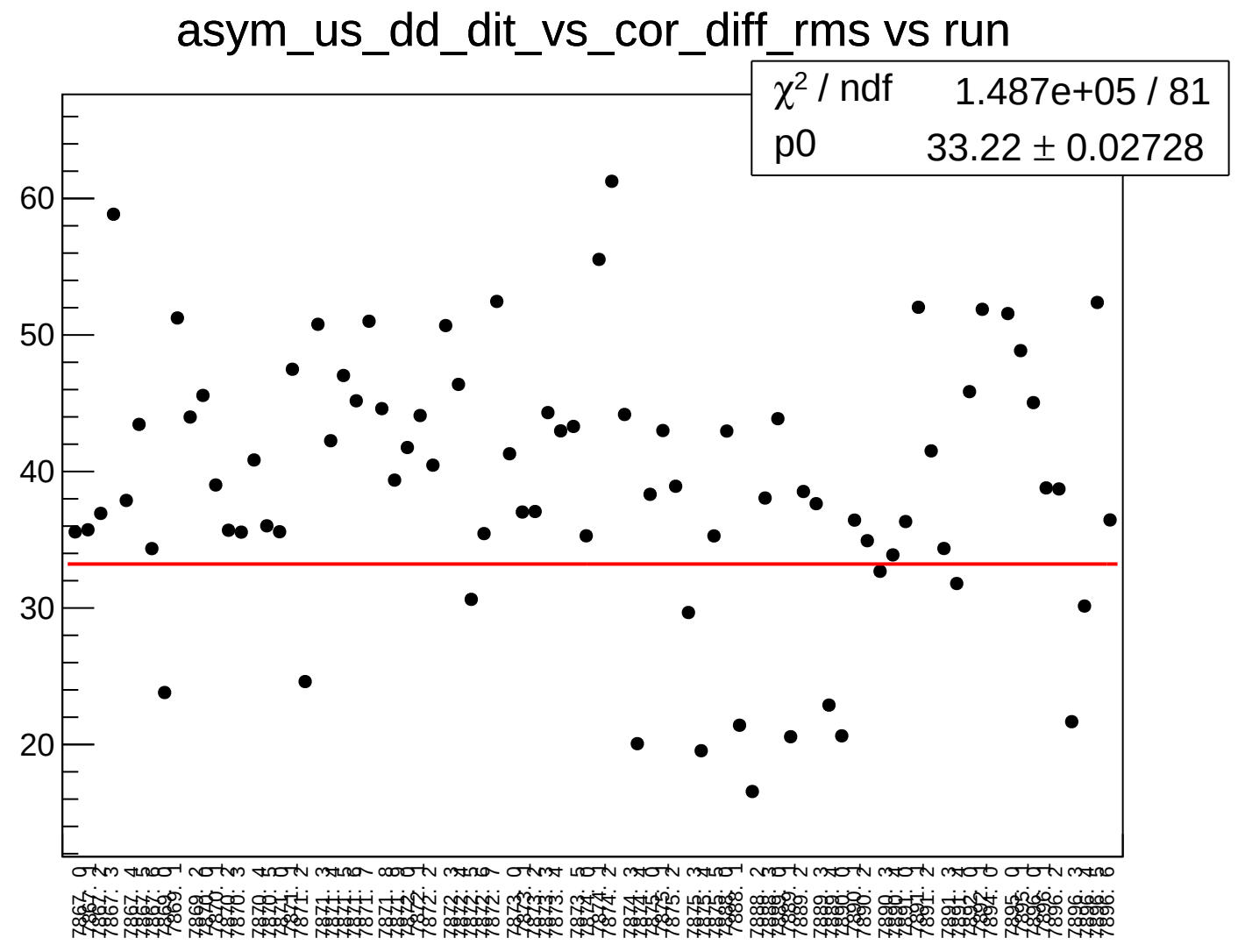

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.04 / 81
p0 3.582e−14 ± 2.32e−13
60
40
20
0
−20
pull
Entries 82
Mean 62.73
Std Dev 2.745
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

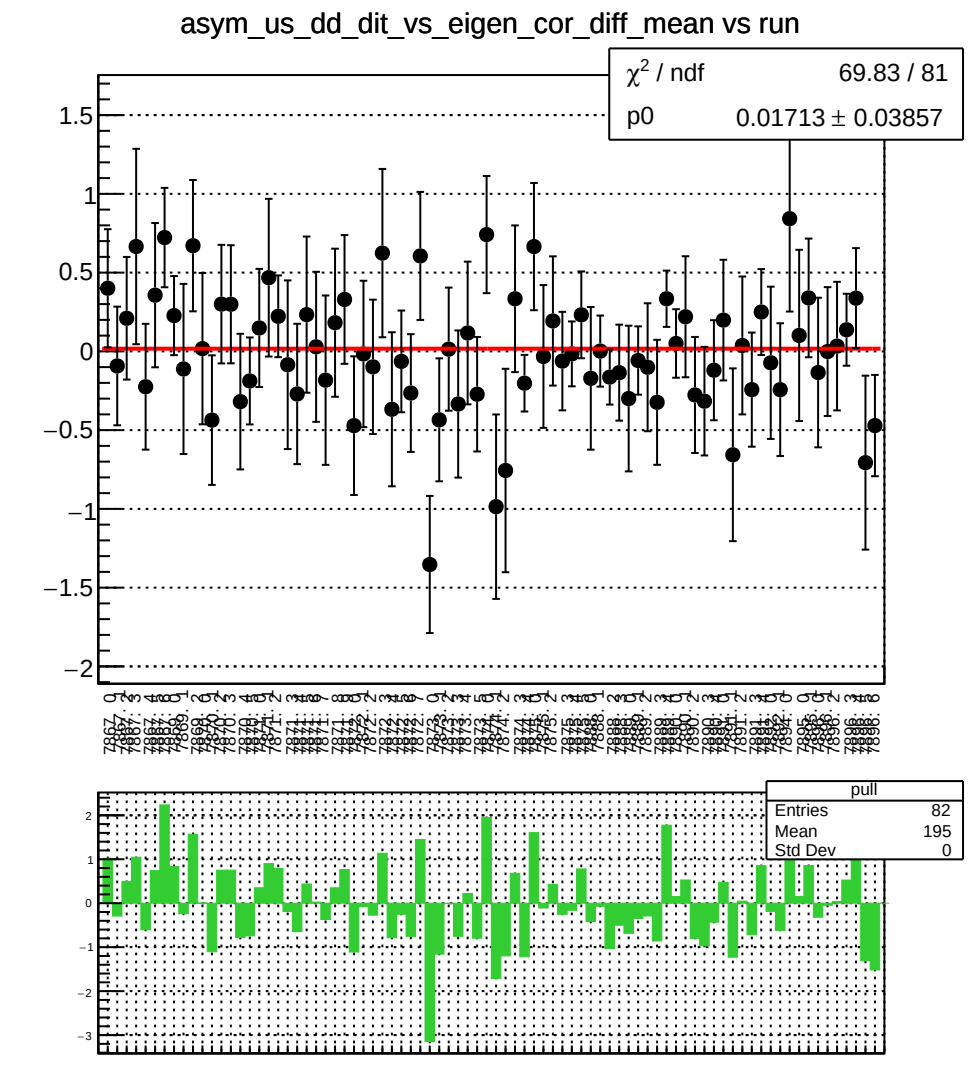

pull1D
Entries 82
Mean −0.07701
Std Dev 0.9471
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

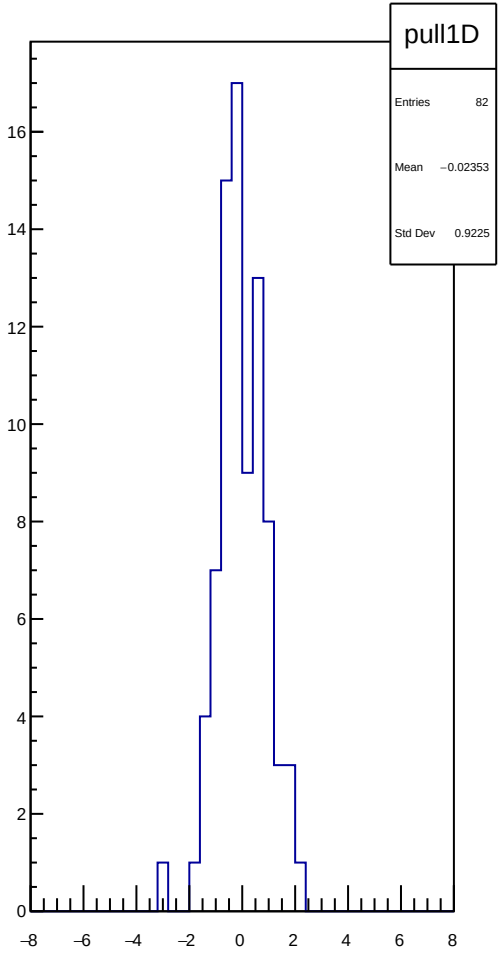

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.898e+05 / 81
p0 1.413e−10 ± 1.64e−13
3.5
3
2.5
2
1.5
1
0.5

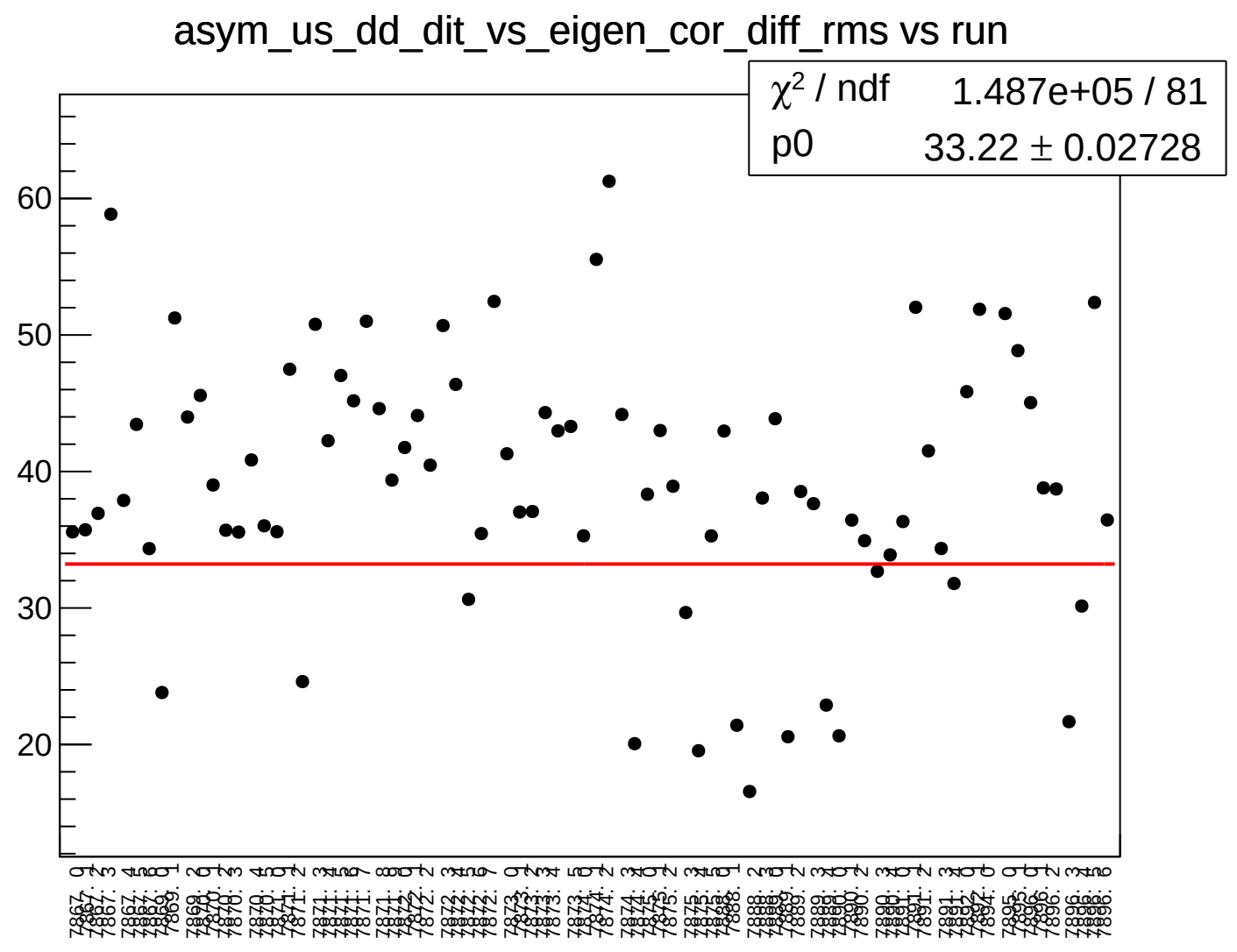

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.83 / 81
p0 0.01713 ± 0.03857
pull
Entries 82
Mean 195
Std Dev 0

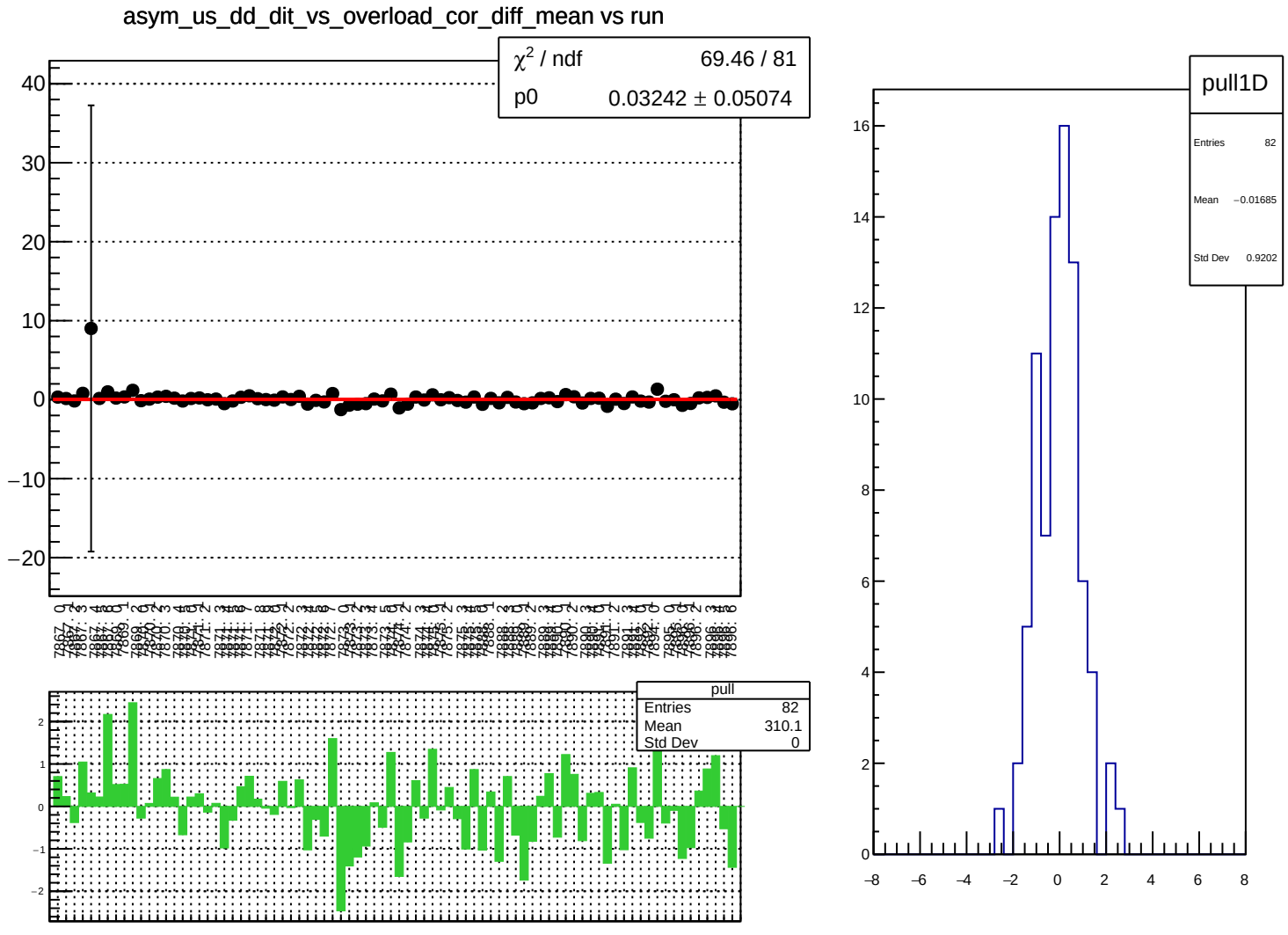

pull1D
Entries 82
Mean −0.02353
Std Dev 0.9225

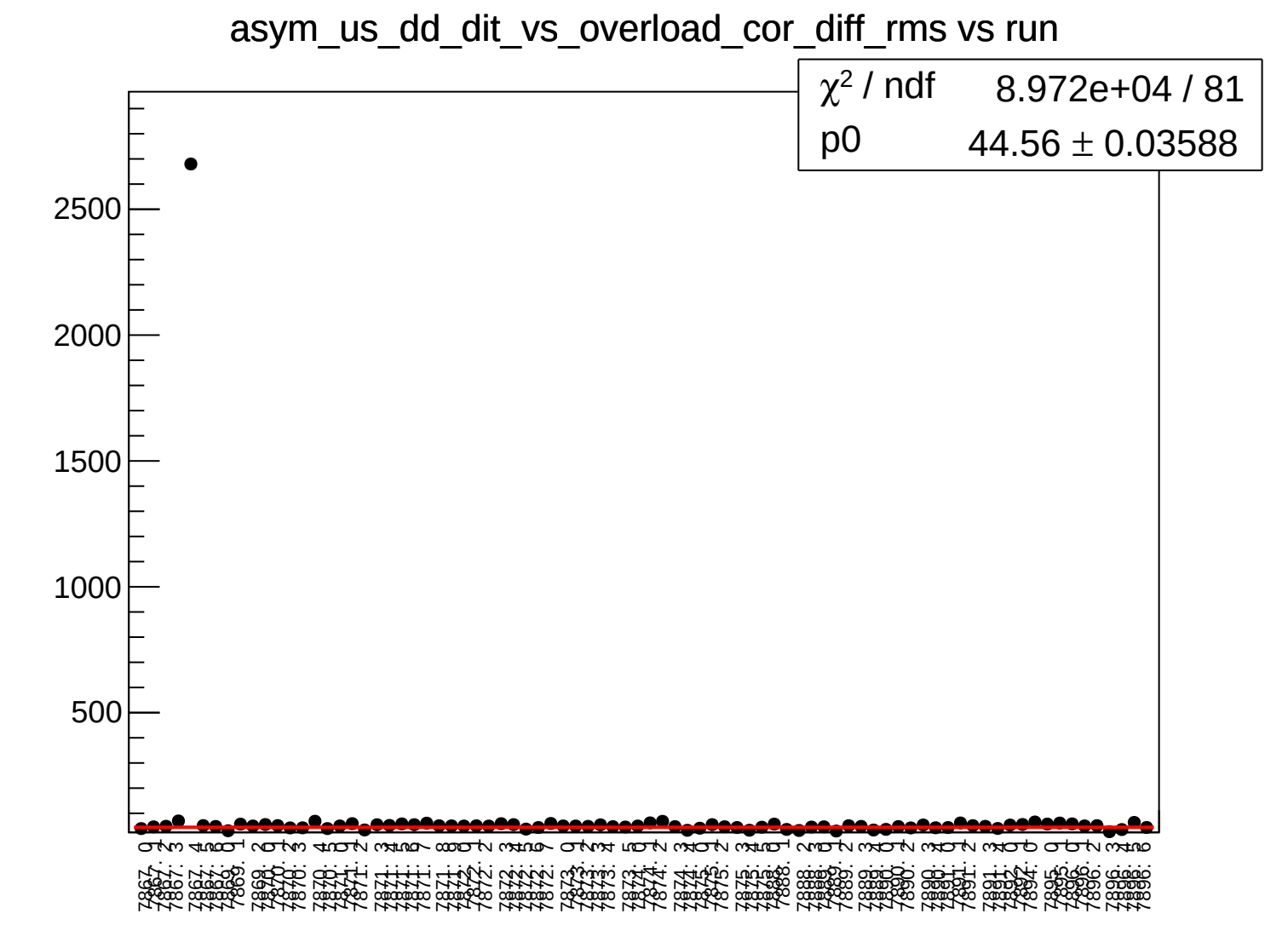

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 33.22 ± 0.02728
60
50
40
30
20

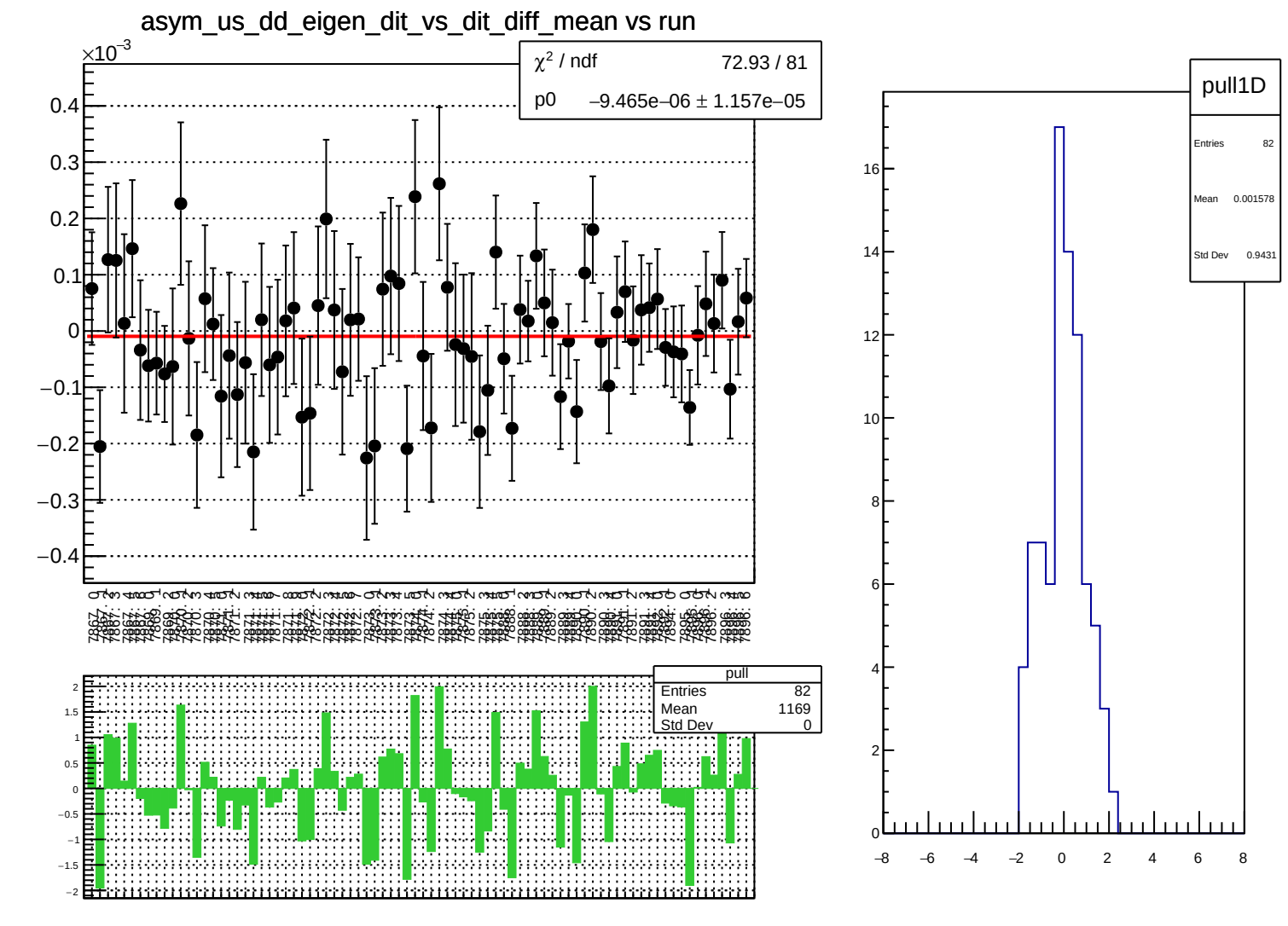

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.83 / 81
p0 0.01713 ± 0.03857
pull
Entries 82
Mean 195
Std Dev 0

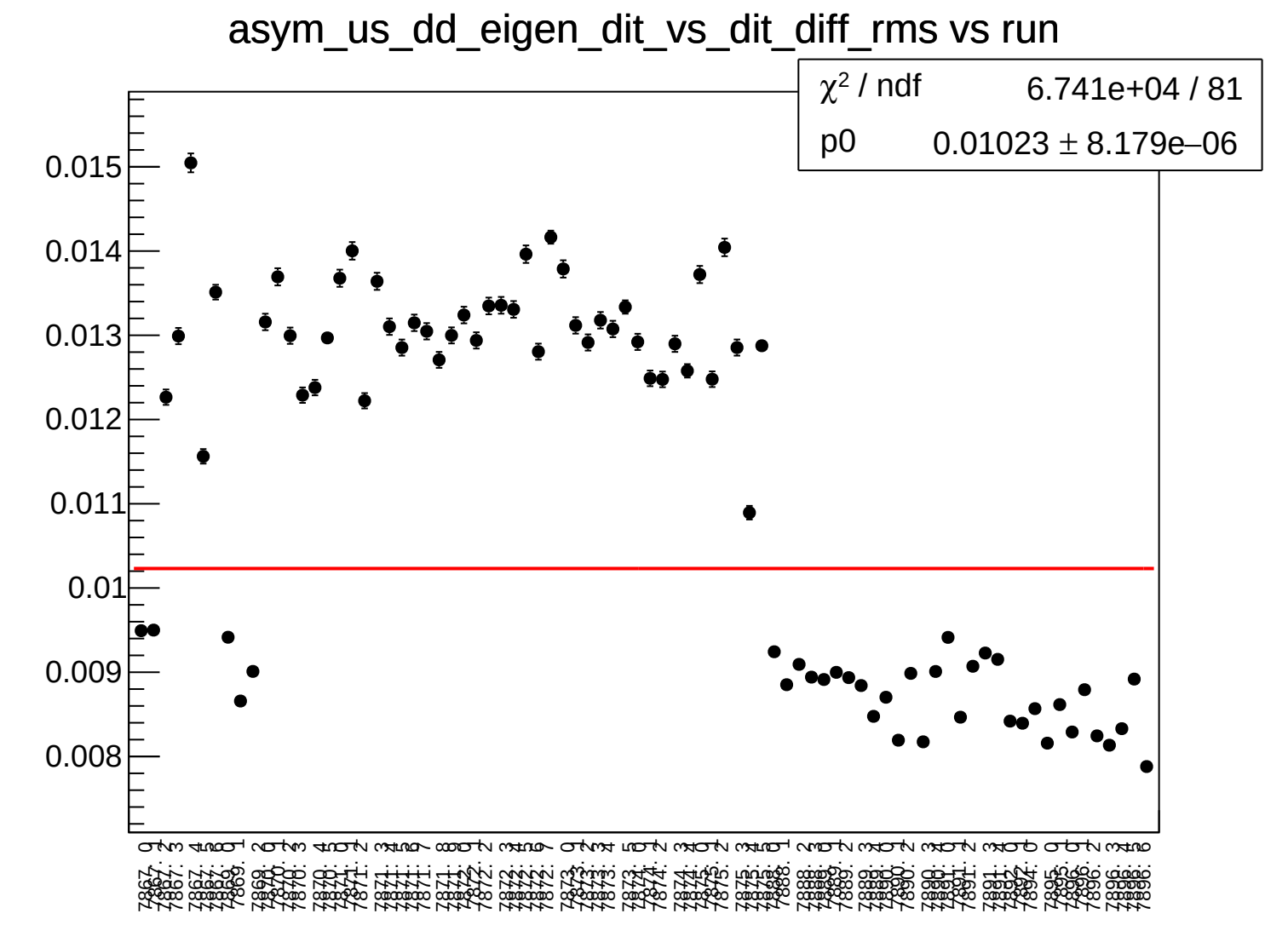

pull1D
Entries 82
Mean −0.02353
Std Dev 0.9225

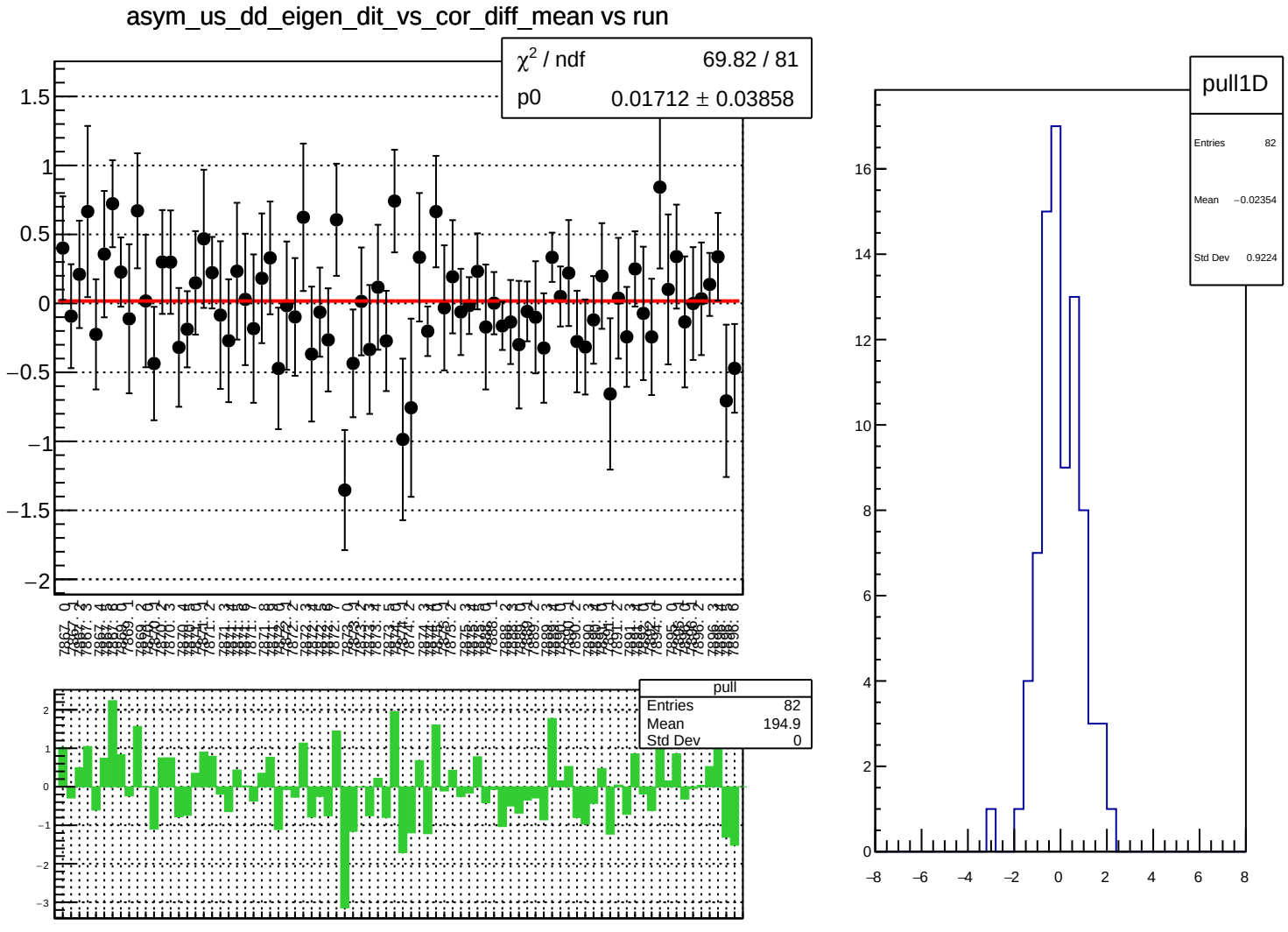

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 33.22 ± 0.02728
60
50
40
30
20

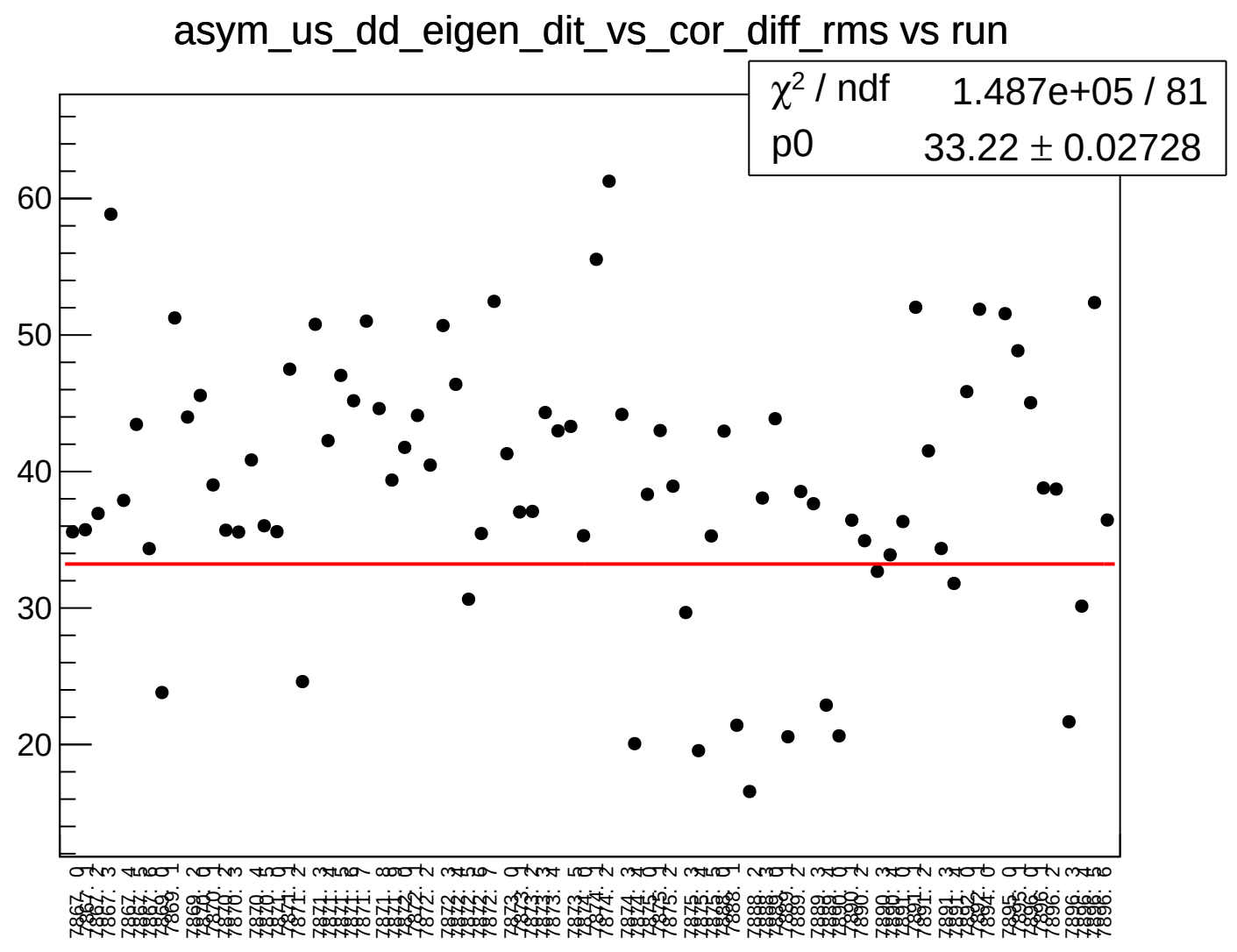

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.46 / 81
p0 0.03242 ± 0.05074
pull
Entries 82
Mean 310.1
Std Dev 0
pull1D
Entries 82
Mean −0.01685
Std Dev 0.9202

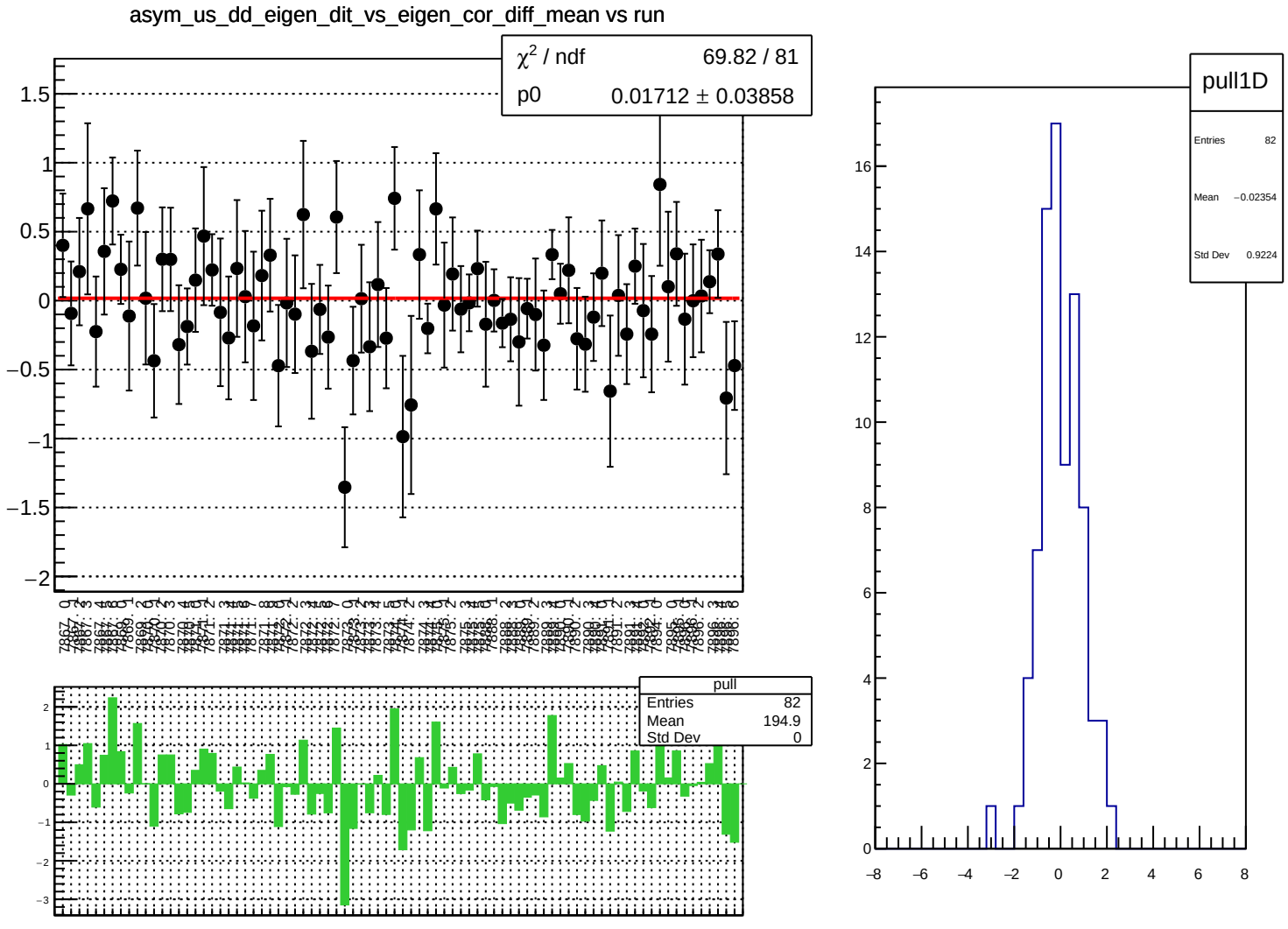

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.972e+04 / 81
p0 44.56 ± 0.03588
2500
2000
1500
1000
500

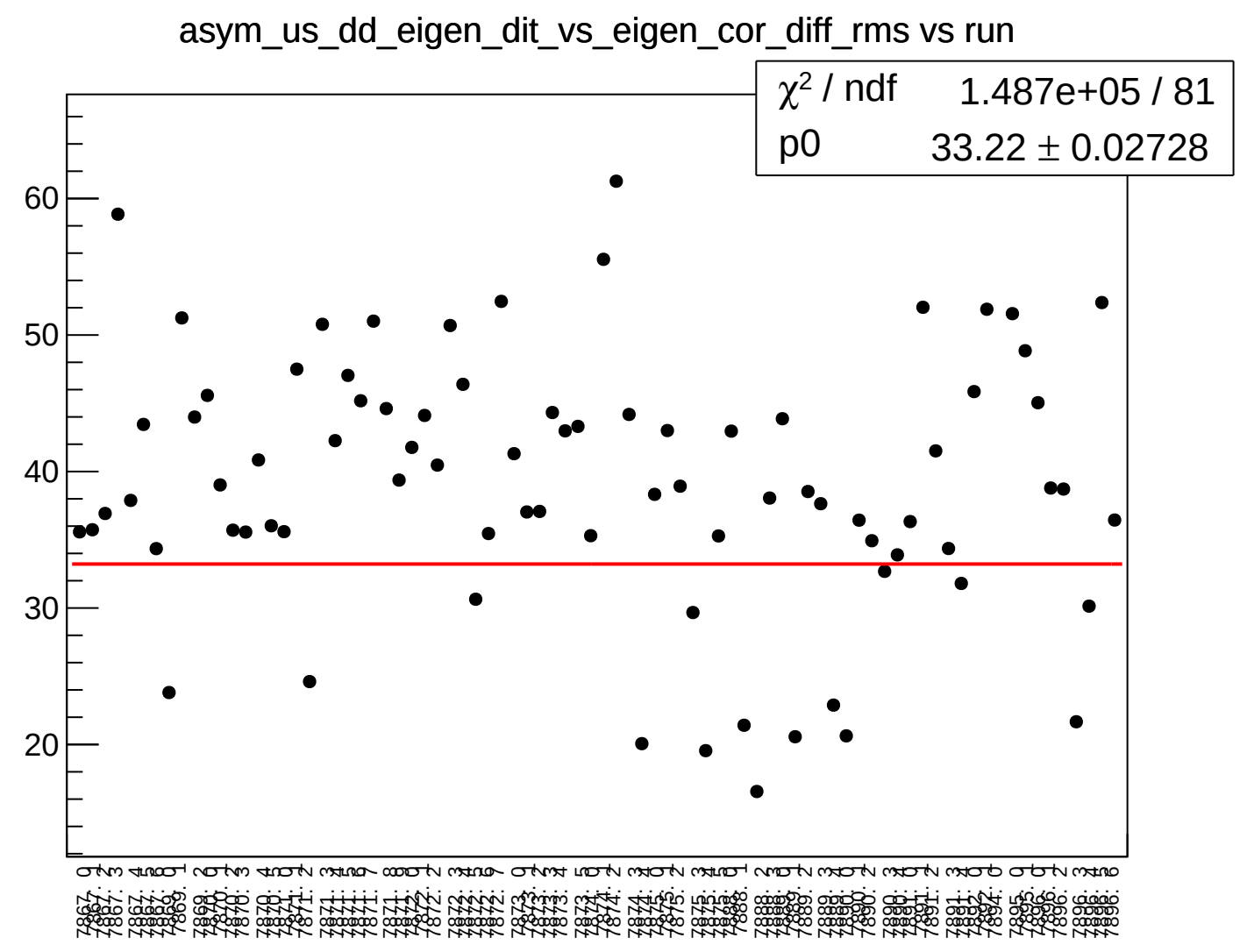

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.93 / 81
p0 −9.465e−06 ± 1.157e−05
pull
Entries 82
Mean 1169
Std Dev 0
pull1D
Entries 82
Mean 0.001578
Std Dev 0.9431

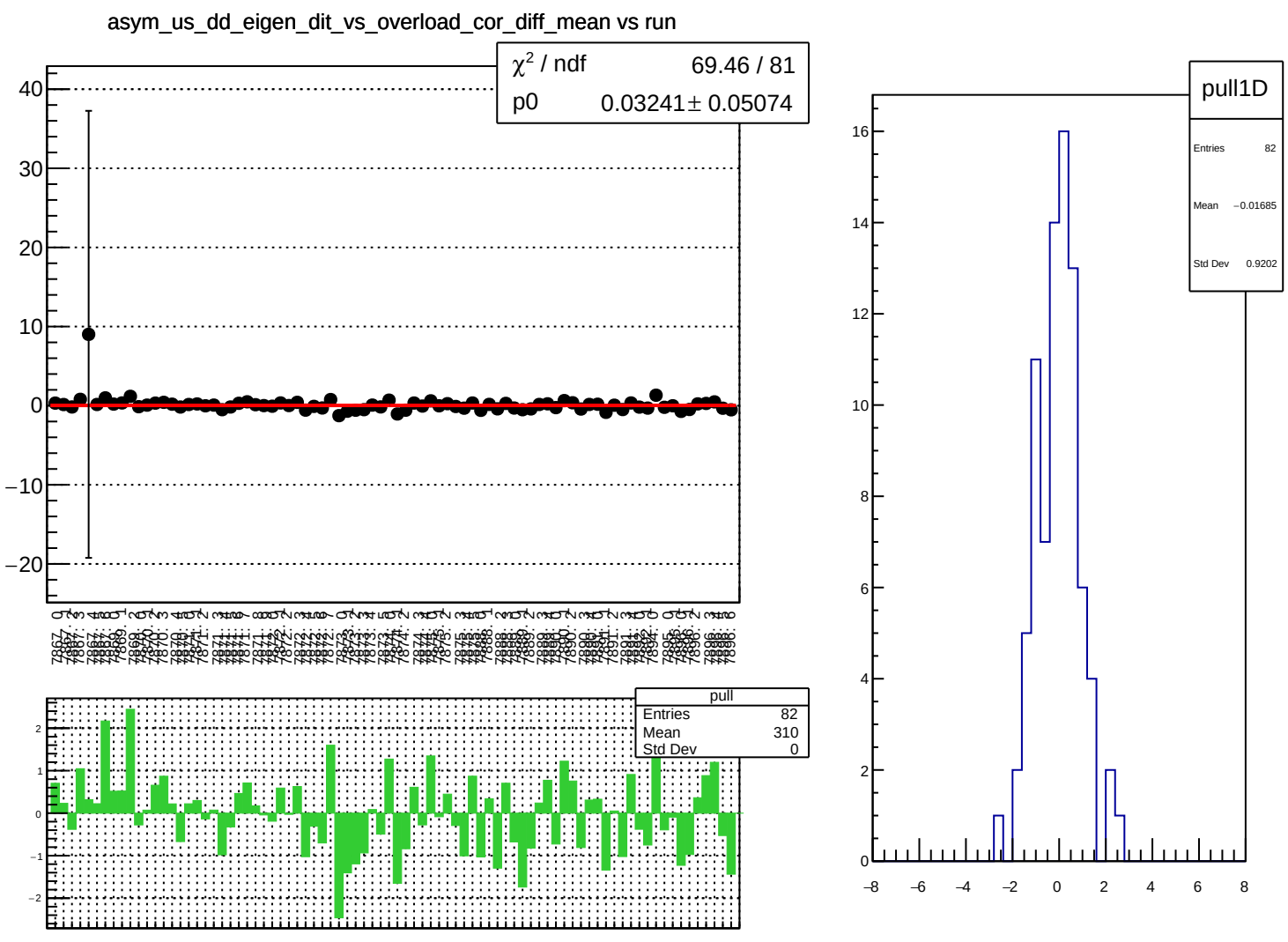

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.741e+04 / 81
p0 0.01023 ± 8.179e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

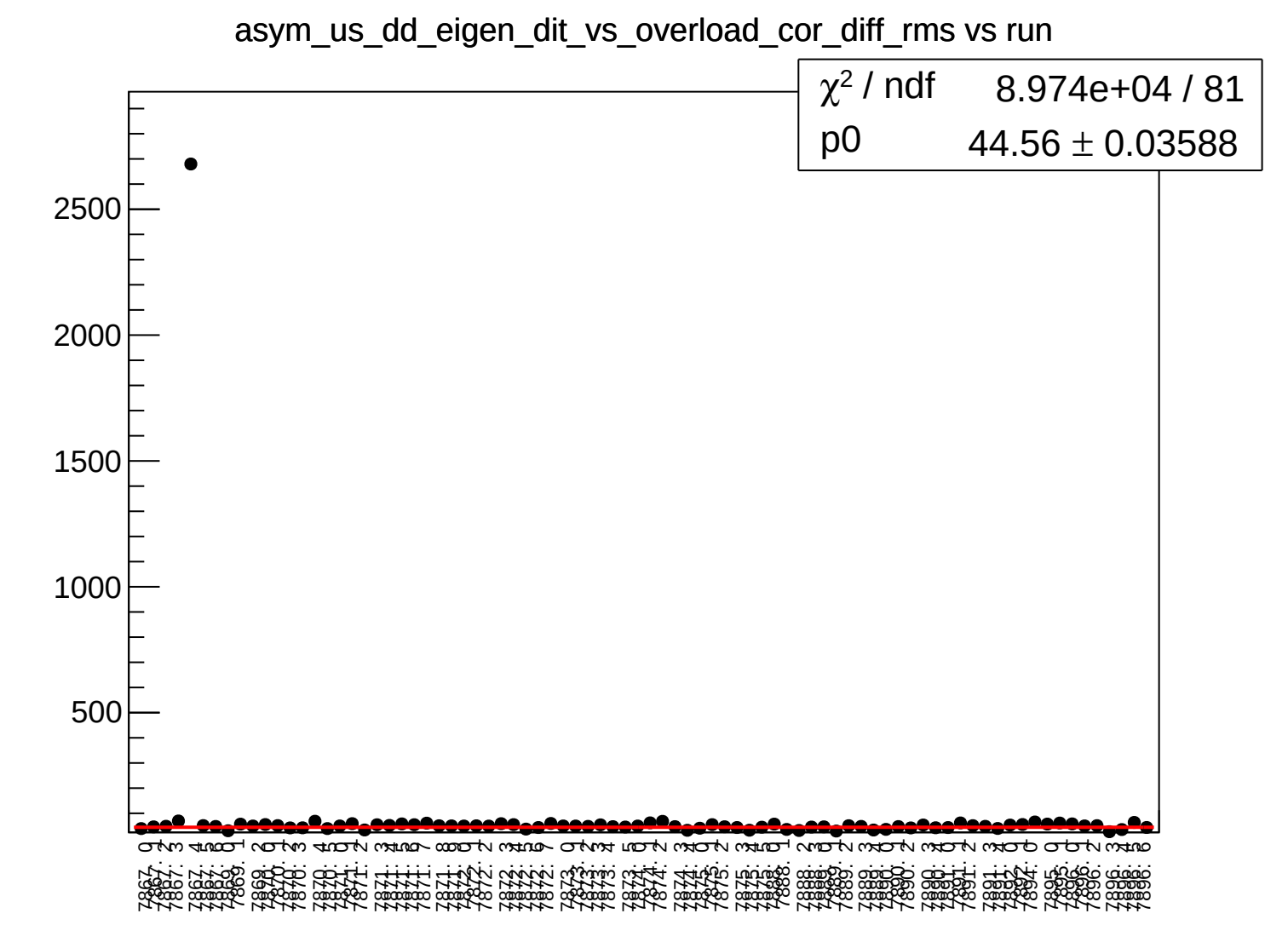

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.82 / 81
p0 0.01712 ± 0.03858
pull
Entries 82
Mean 194.9
Std Dev 0
pull1D
Entries 82
Mean −0.02354
Std Dev 0.9224

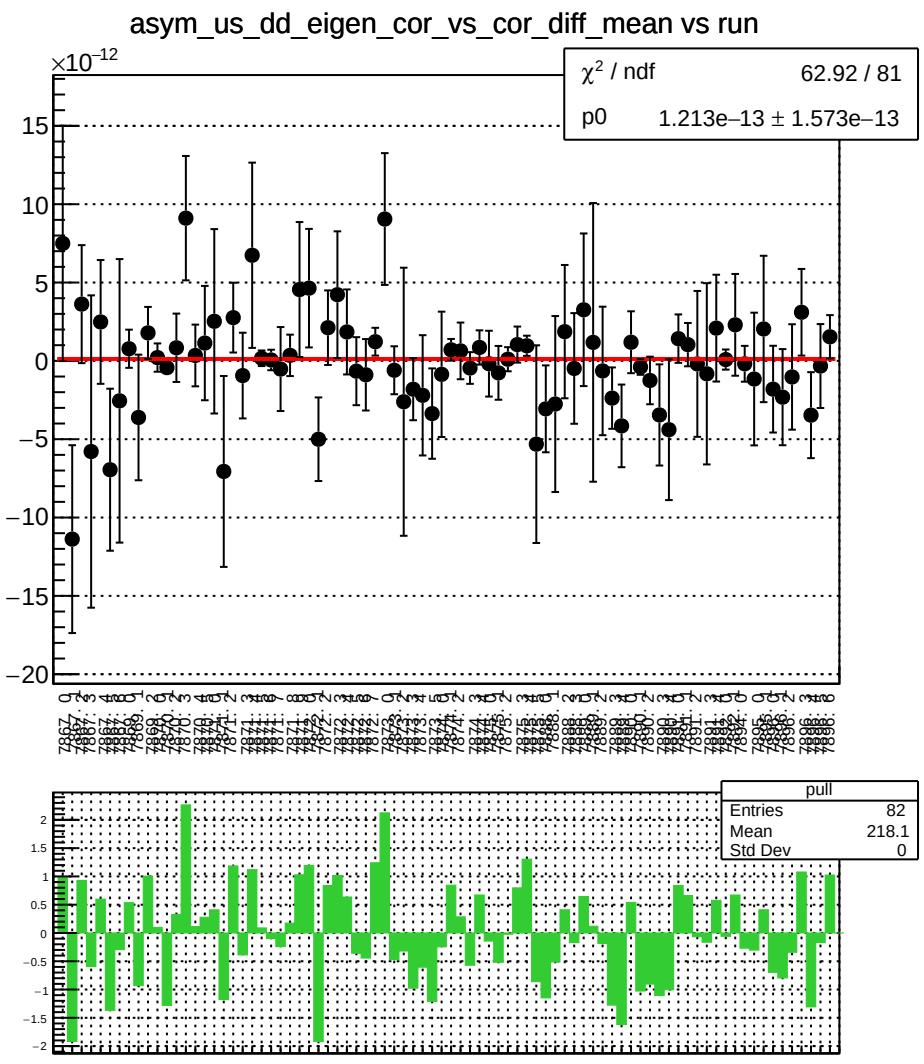

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 33.22 ± 0.02728
60
50
40
30
20

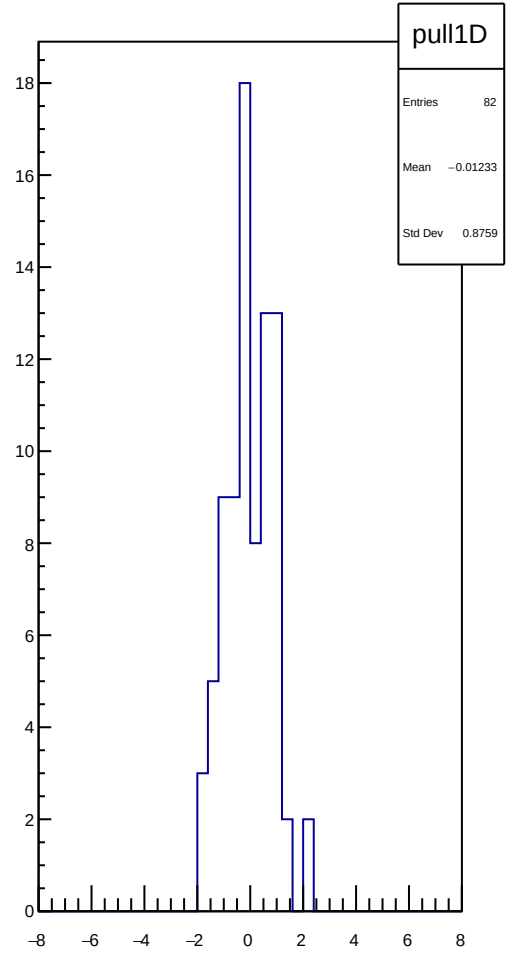

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.82 / 81
p0 0.01712 ± 0.03858
pull
Entries 82
Mean 194.9
Std Dev 0
pull1D
Entries 82
Mean −0.02354
Std Dev 0.9224

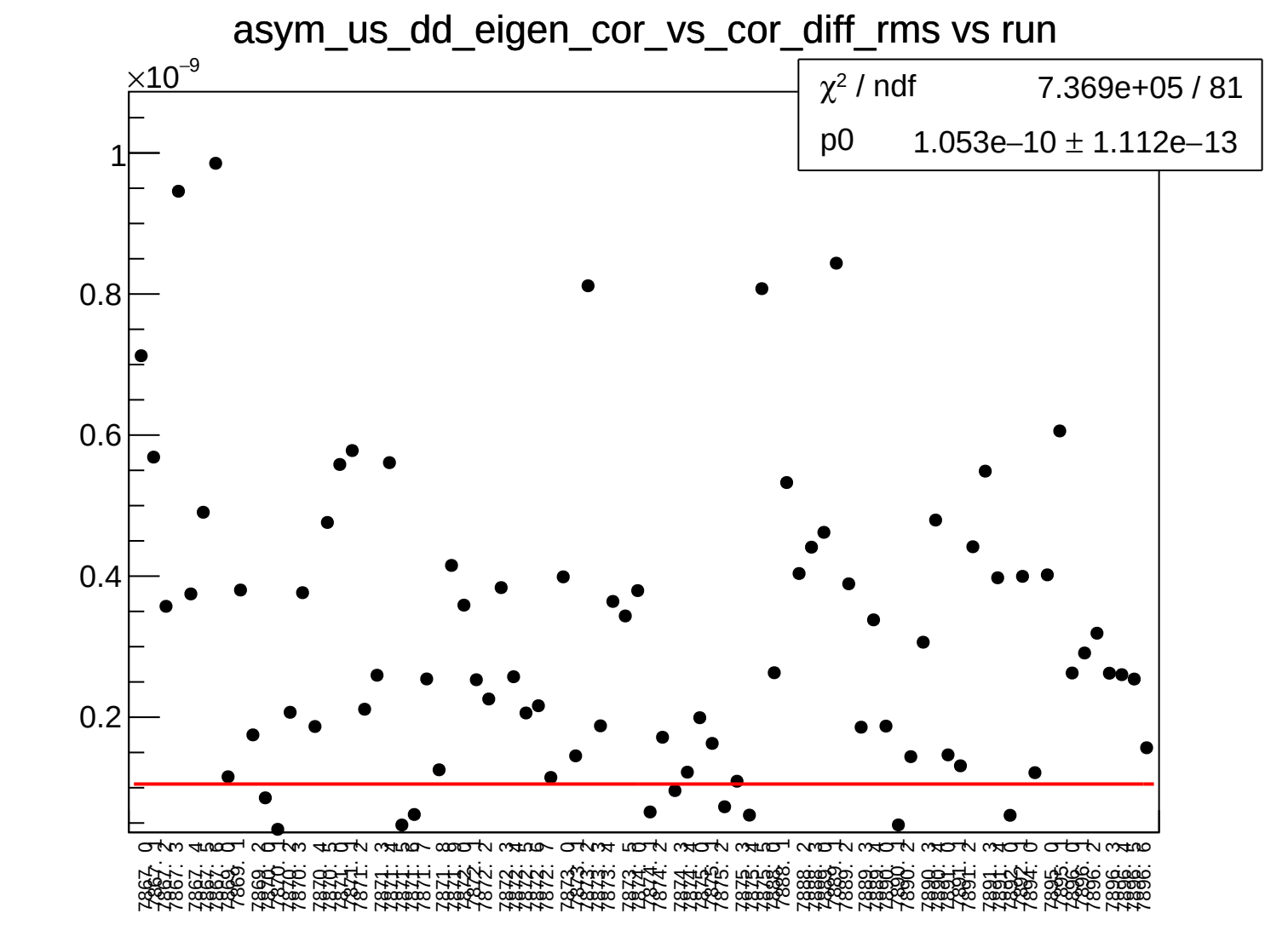

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 33.22 ± 0.02728
60
50
40
30
20

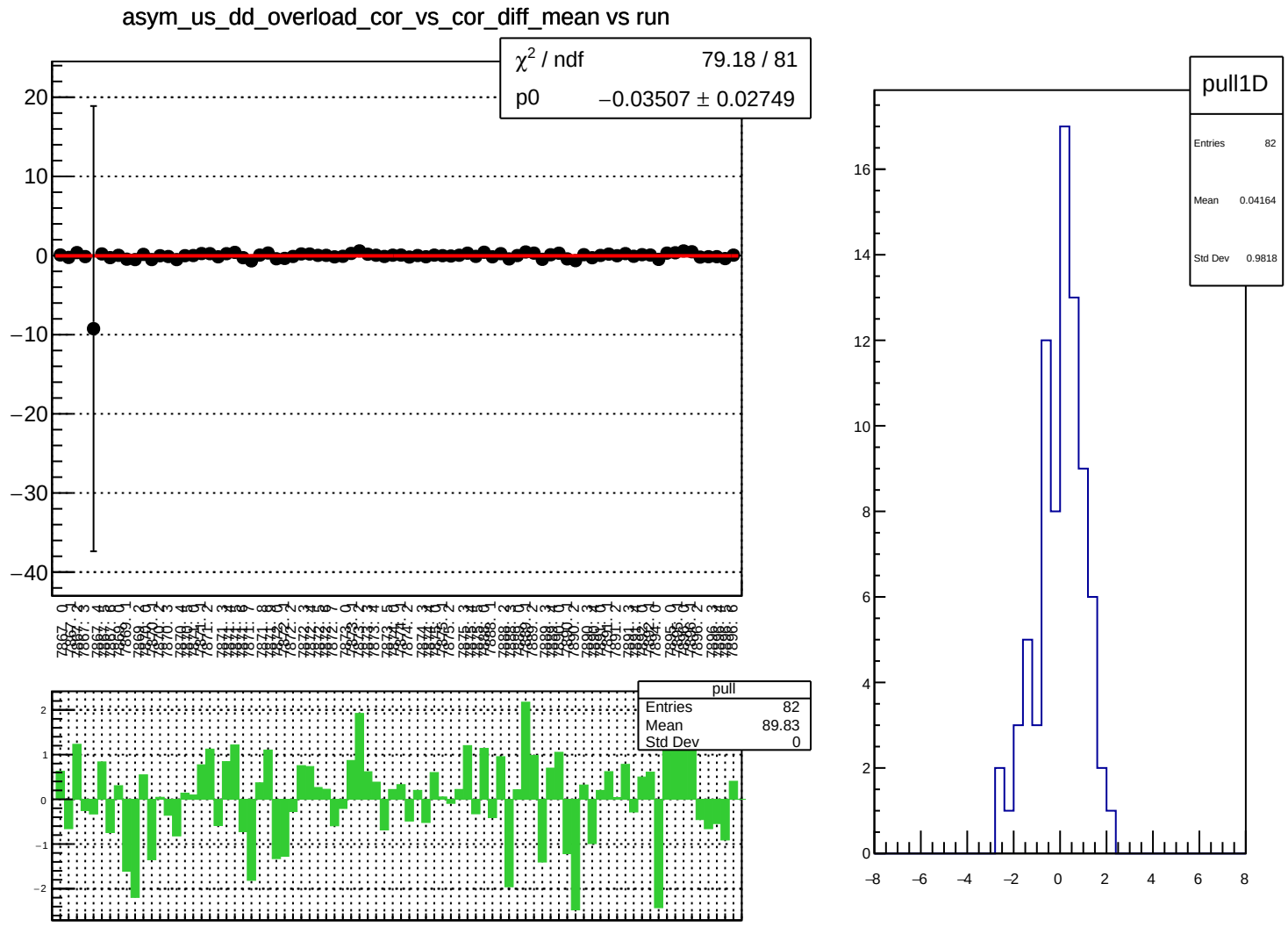

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.46 / 81
p0 0.03241 ± 0.05074
pull
Entries 82
Mean 310
Std Dev 0
pull1D
Entries 82
Mean −0.01685
Std Dev 0.9202

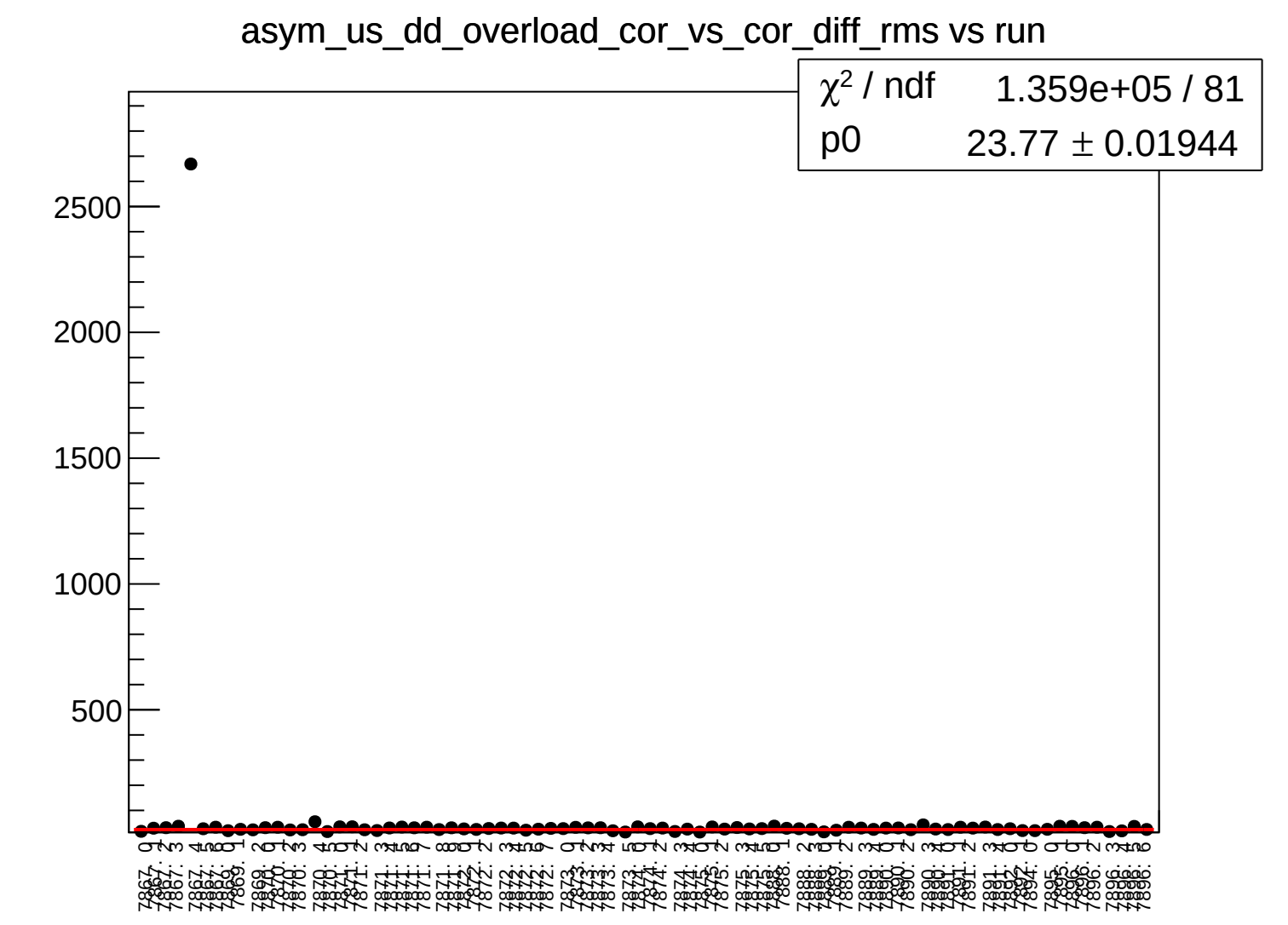

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.974e+04 / 81
p0 44.56 ± 0.03588
2500
2000
1500
1000
500

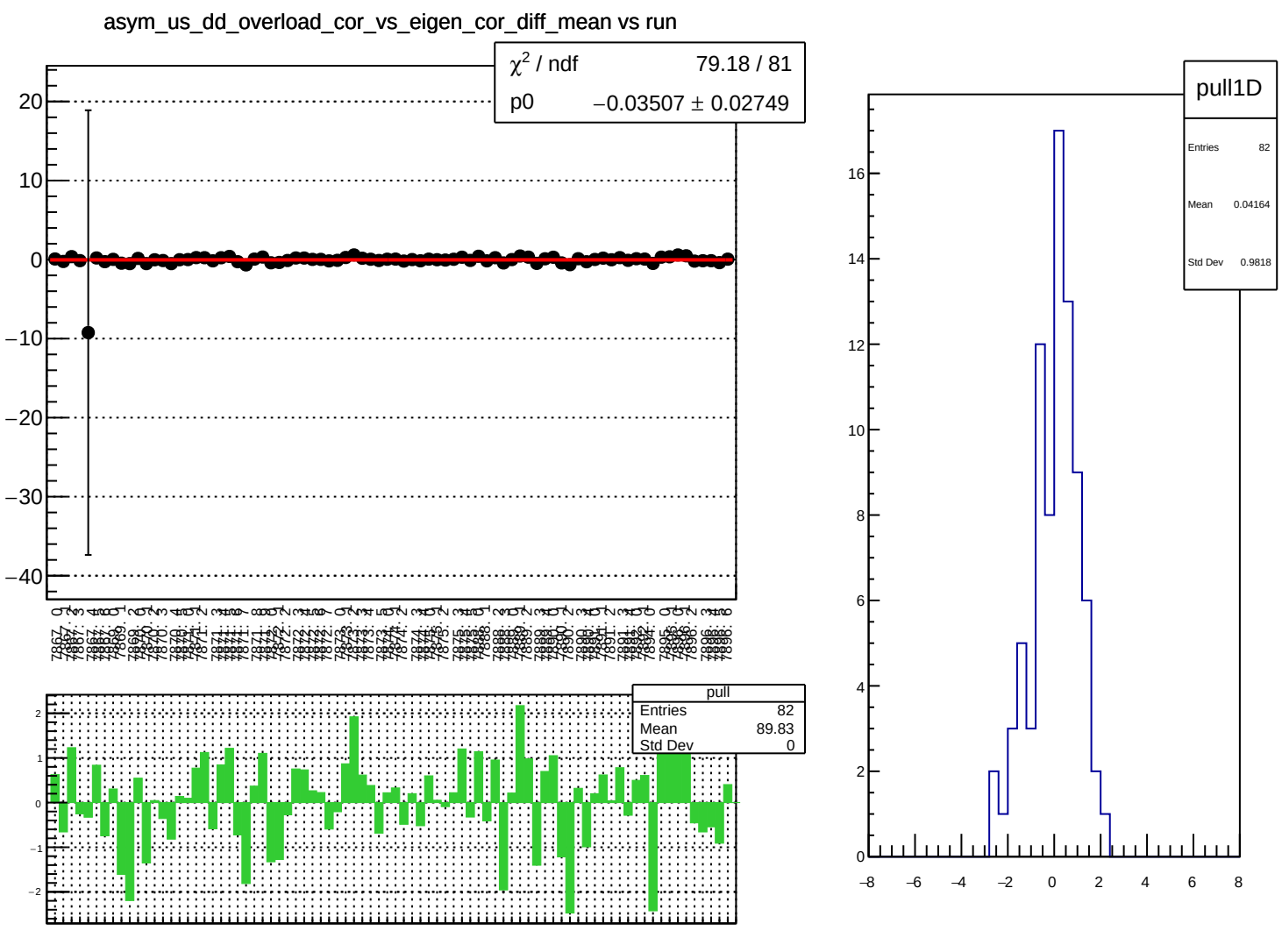

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.92 / 81
p0 1.213e−13 ± 1.573e−13
pull
Entries 82
Mean 218.1
Std Dev 0

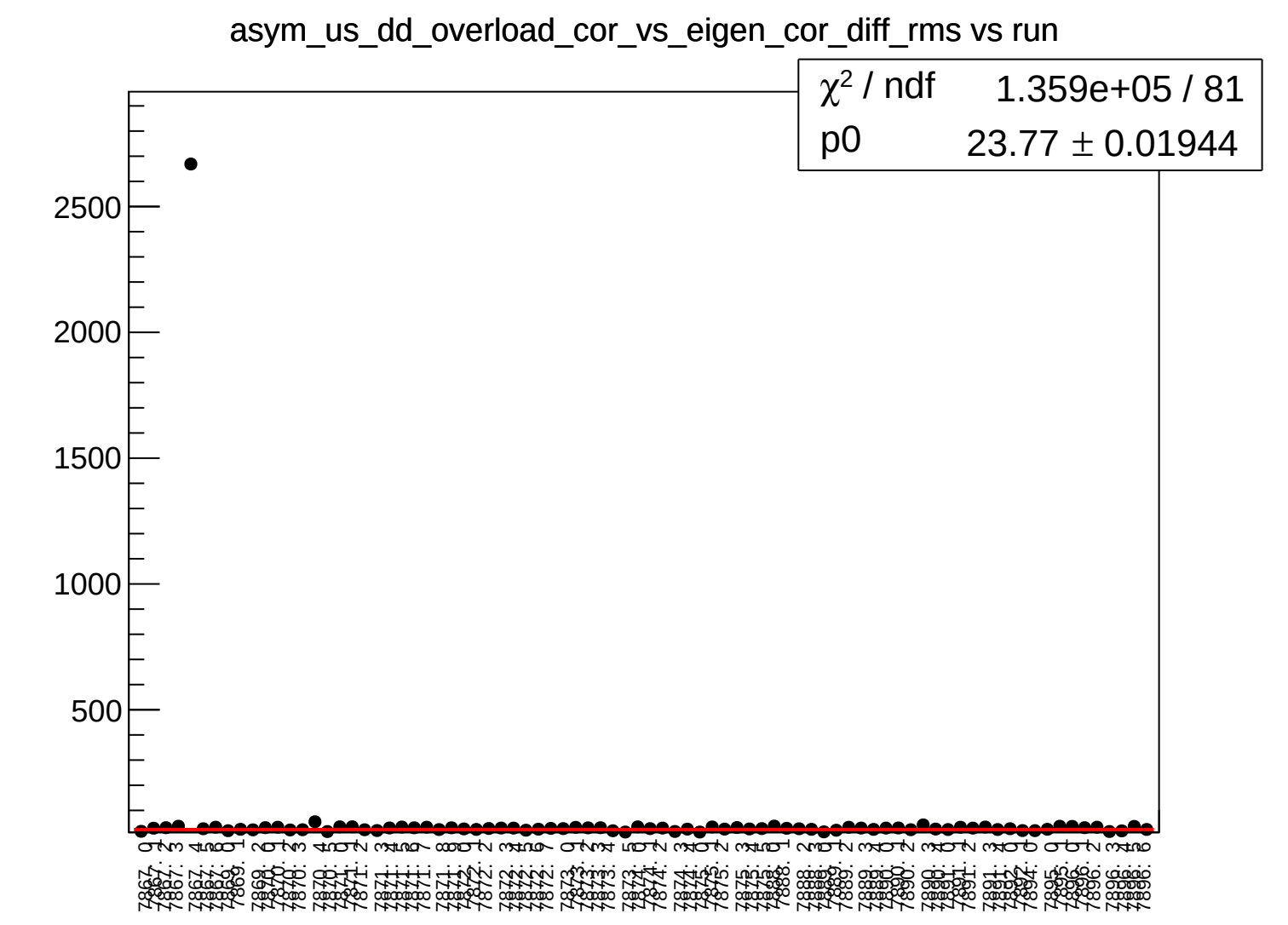

pull1D
Entries 82
Mean −0.01233
Std Dev 0.8759

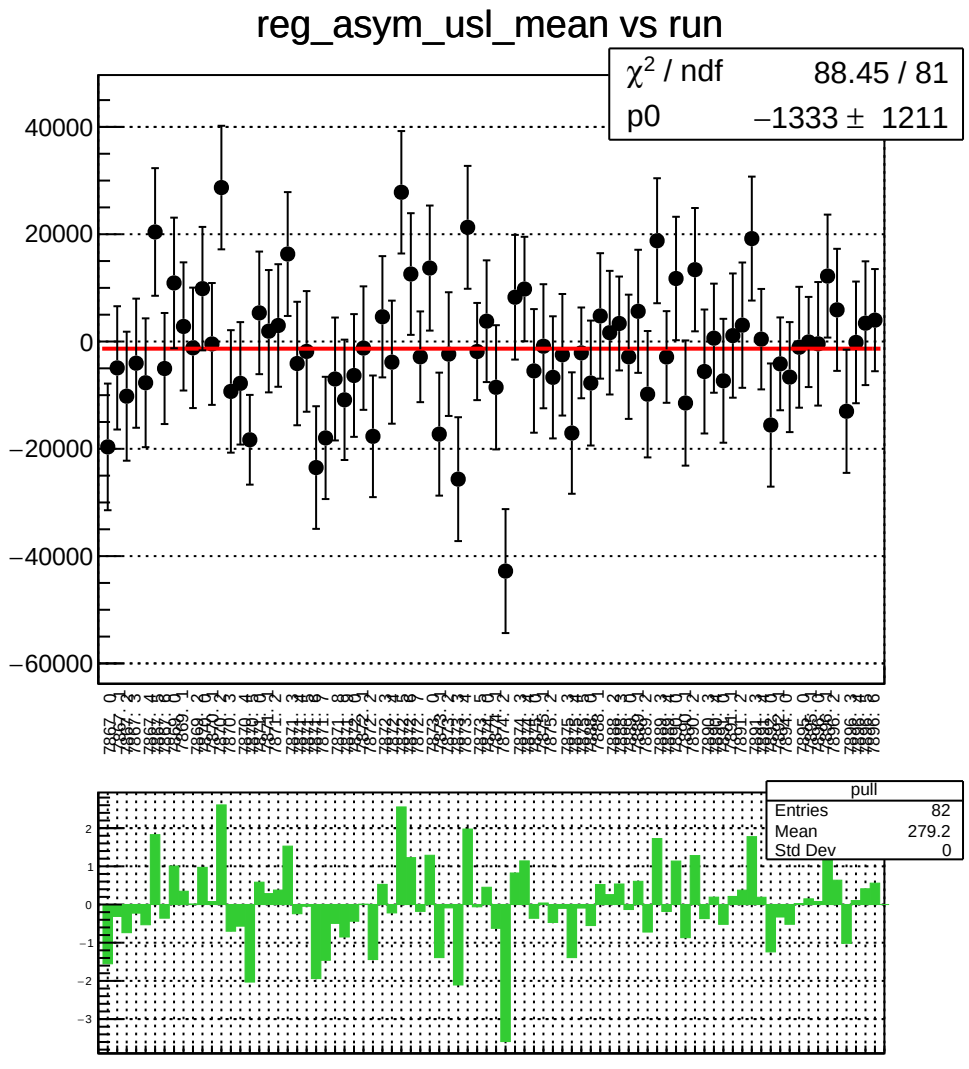

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.369e+05 / 81
p0 1.053e−10 ± 1.112e−13
1
0.8
0.6
0.4
0.2

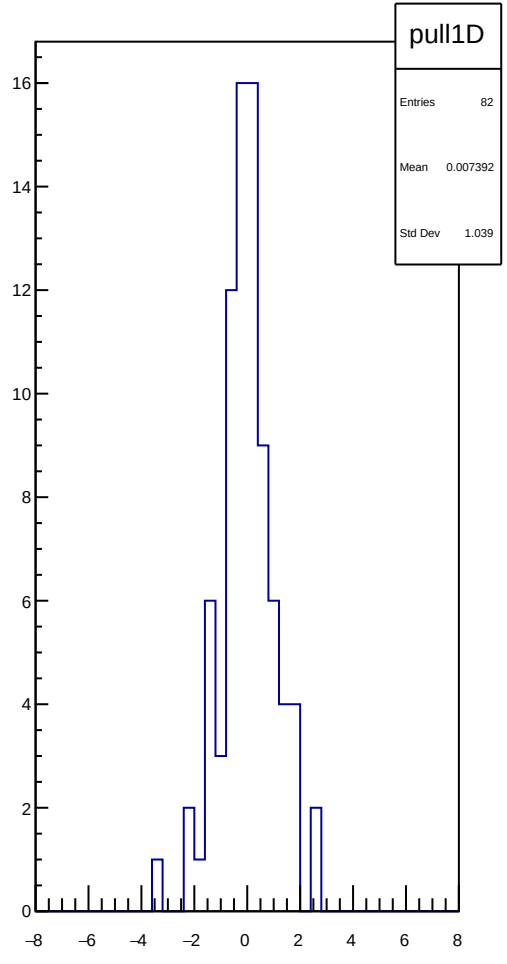

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 79.18 / 81
p0 −0.03507 ± 0.02749
pull
Entries 82
Mean 89.83
Std Dev 0
pull1D
Entries 82
Mean 0.04164
Std Dev 0.9818

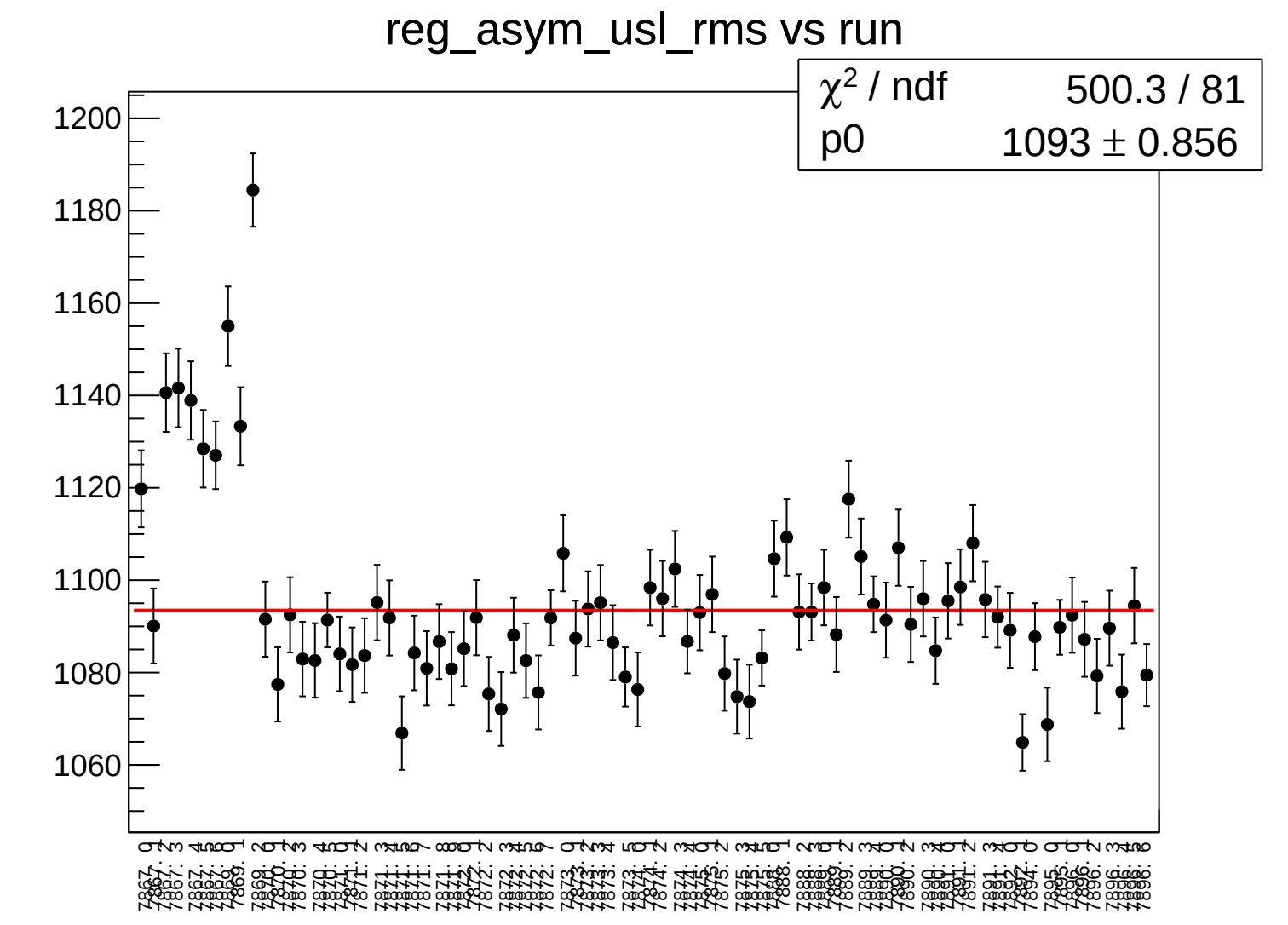

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.359e+05 / 81
p0 23.77 ± 0.01944
2500
2000
1500
1000
500

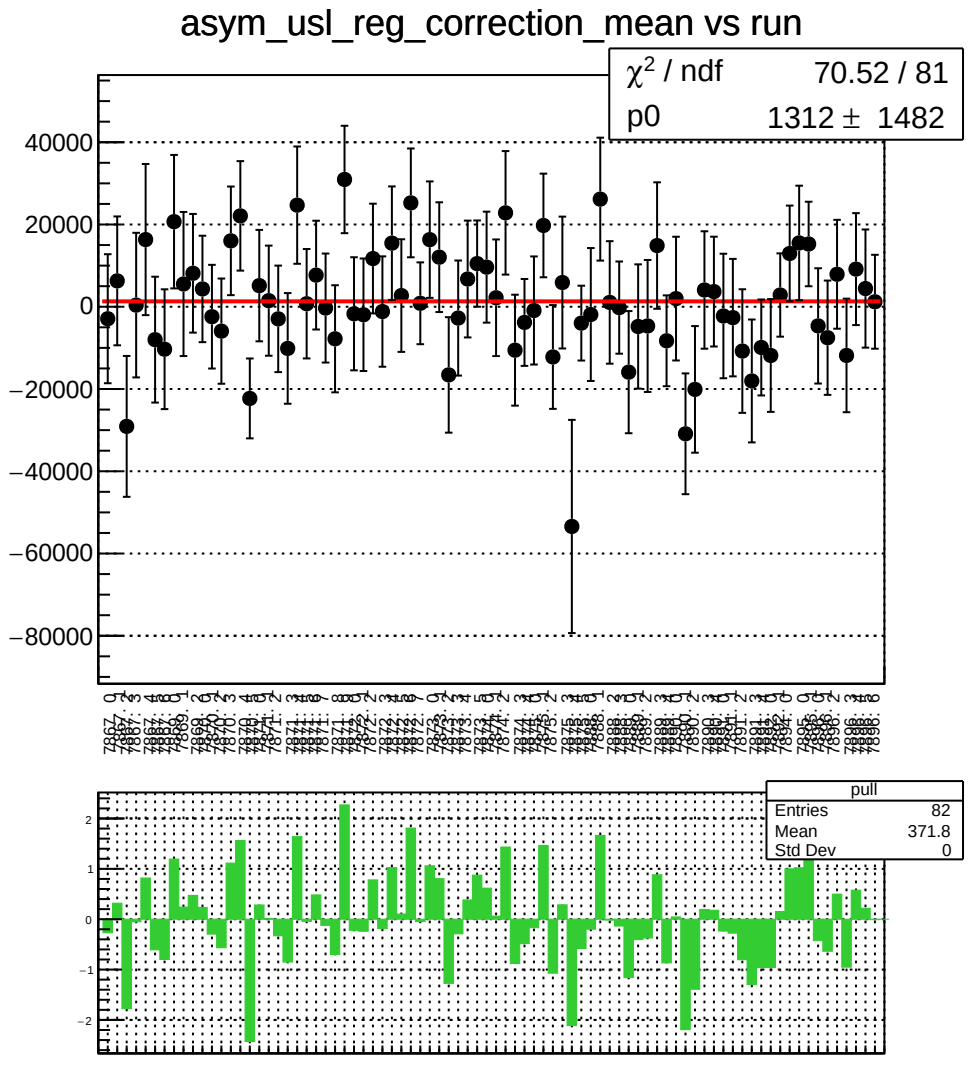

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.18 / 81
p0 −0.03507 ± 0.02749
pull
Entries 82
Mean 89.83
Std Dev 0
pull1D
Entries 82
Mean 0.04164
Std Dev 0.9818

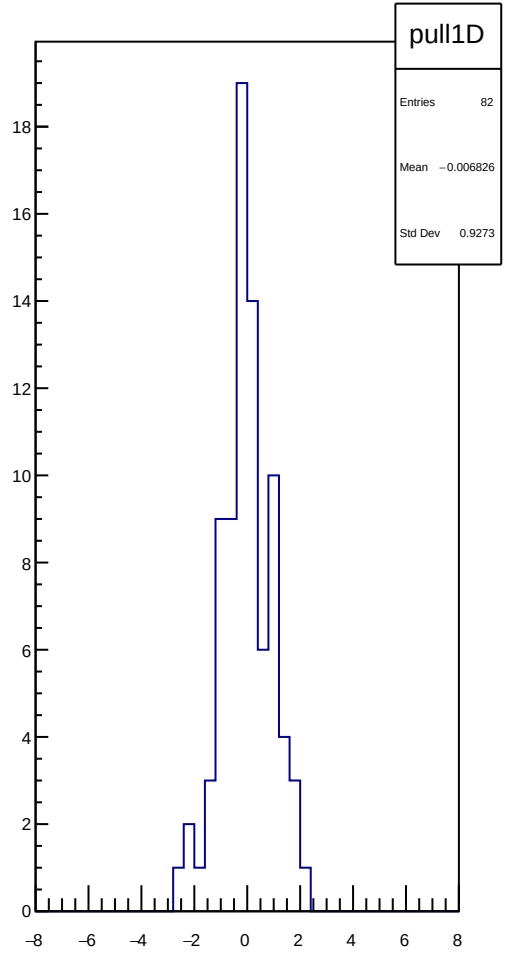

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.359e+05 / 81
p0 23.77 ± 0.01944
2500
2000
1500
1000
500

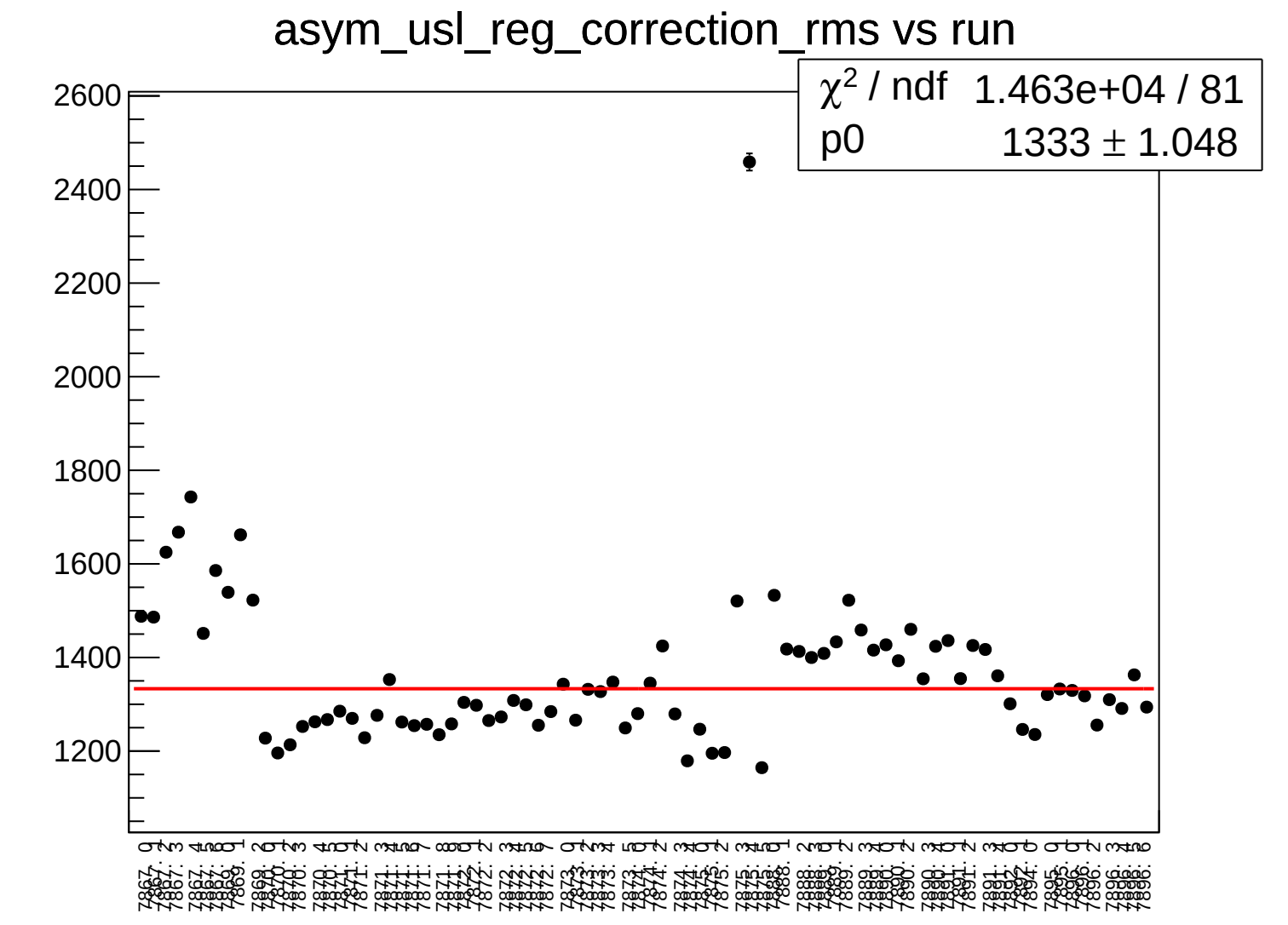

reg_asym_usl_mean vs run
χ² / ndf 88.45 / 81
p0 −1333 ± 1211
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 279.2
Std Dev 0
2
1
0
−1
−2
−3

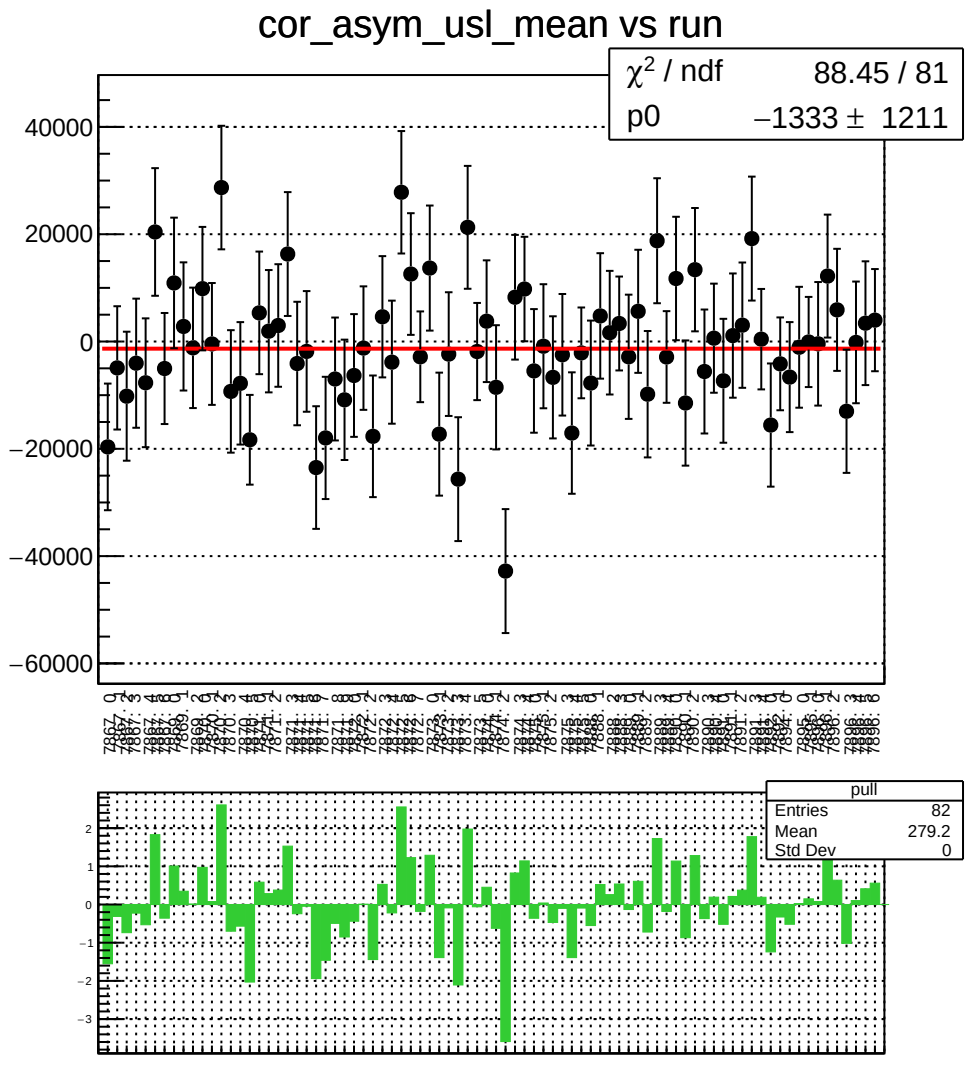

pull1D
Entries 82
Mean 0.007392
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

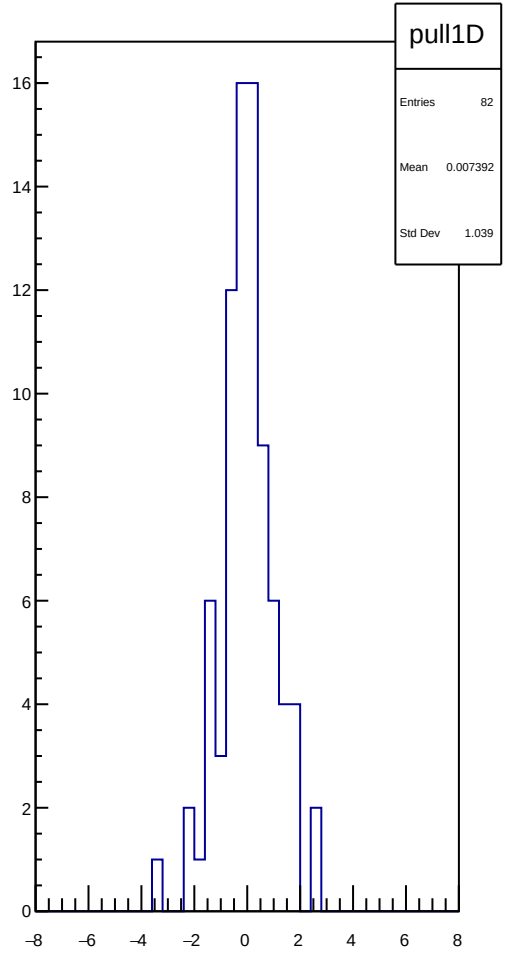

reg_asym_usl_rms vs run
χ² / ndf 500.3 / 81
p0 1093 ± 0.856
1200
1180
1160
1140
1120
1100
1080
1060

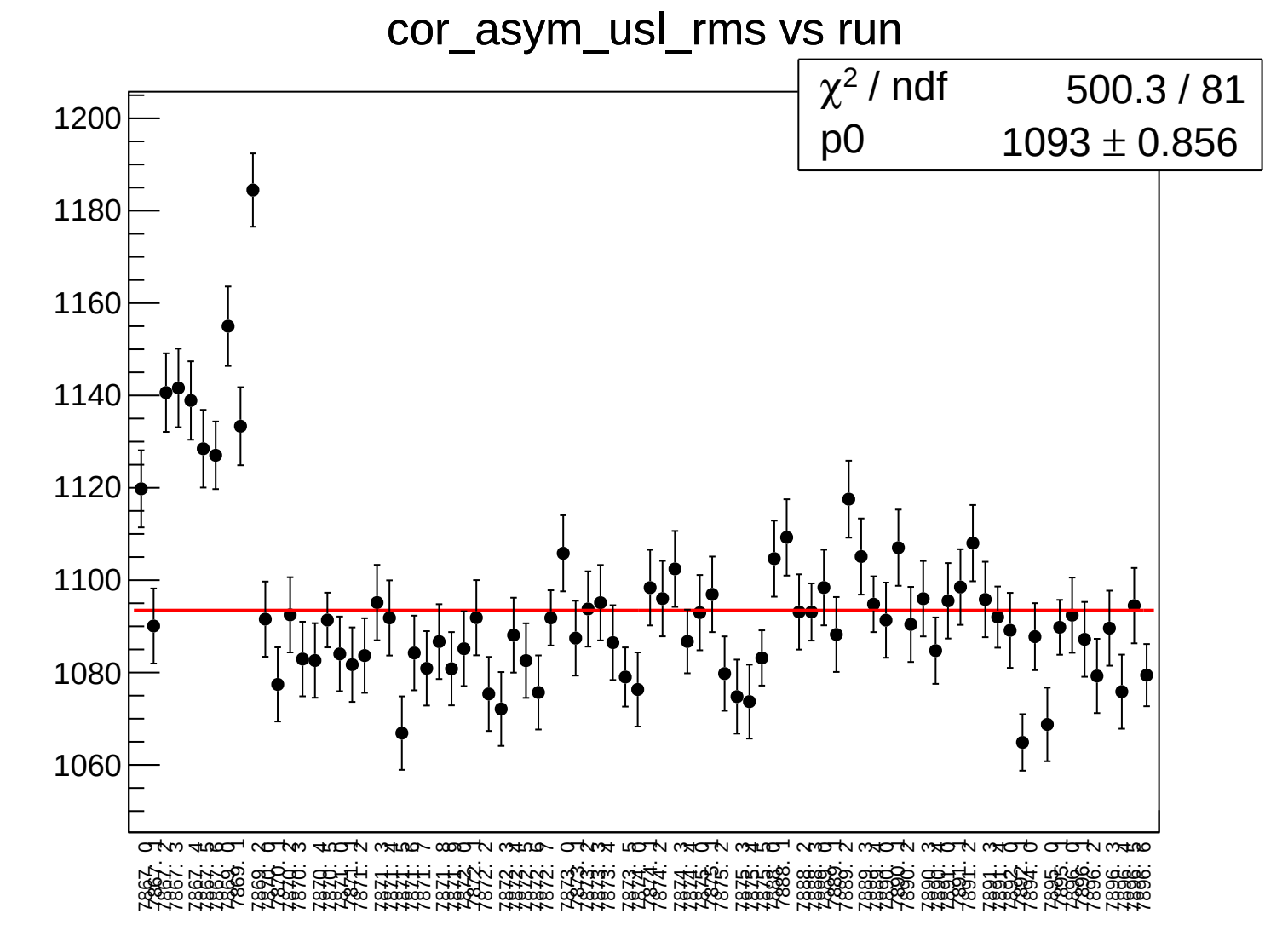

asym_usl_reg_correction_mean vs run
χ² / ndf 70.52 / 81
p0 1312 ± 1482
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 371.8
Std Dev 0
2
1
0
−1
−2

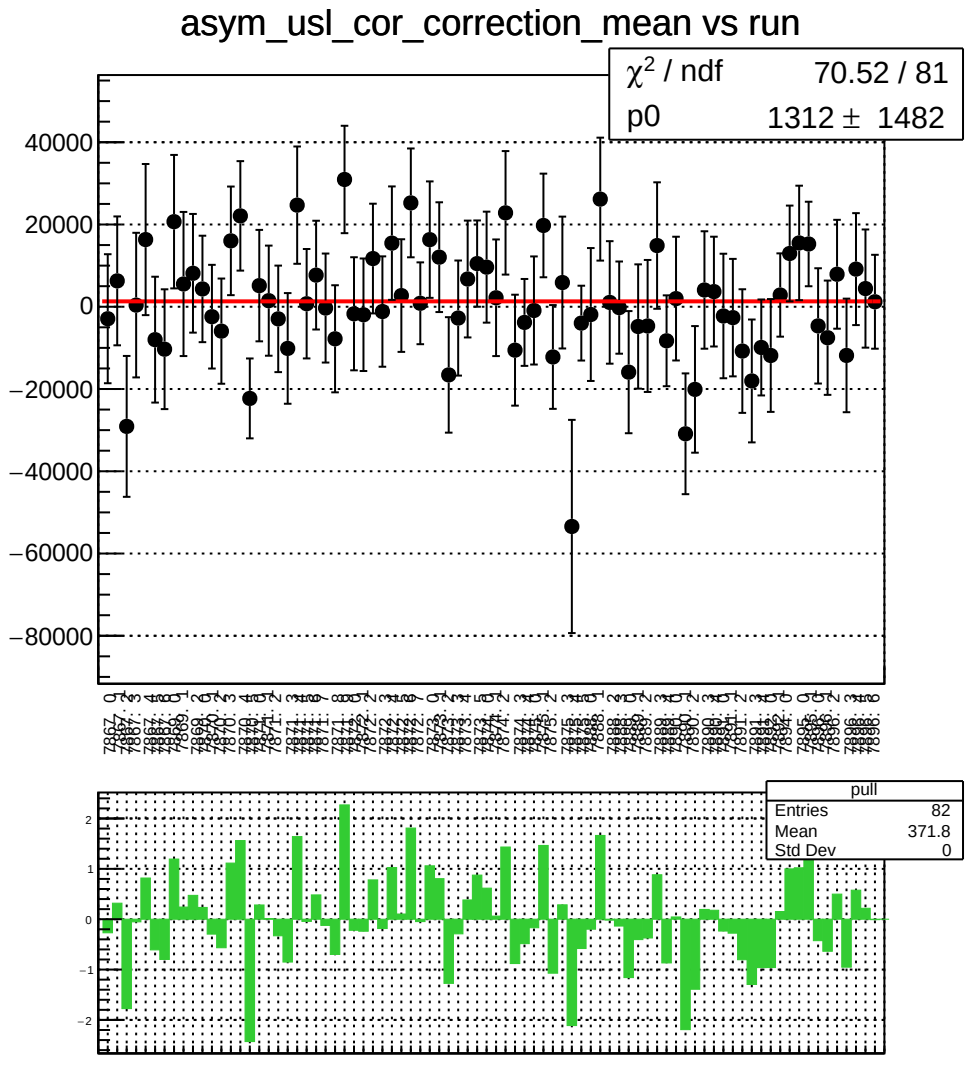

pull1D
Entries 82
Mean −0.006826
Std Dev 0.9273
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

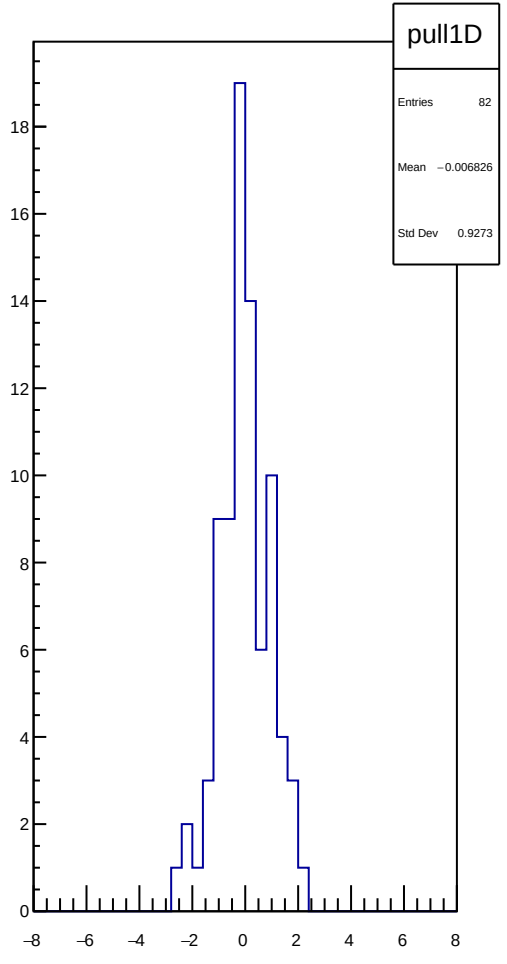

asym_usl_reg_correction_rms vs run
χ² / ndf 1.463e+04 / 81
p0 1333 ± 1.048
2600
2400
2200
2000
1800
1600
1400
1200


cor_asym_usl_mean vs run
χ² / ndf 88.45 / 81
p0 −1333 ± 1211
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 279.2
Std Dev 0
2
1
0
−1
−2
−3

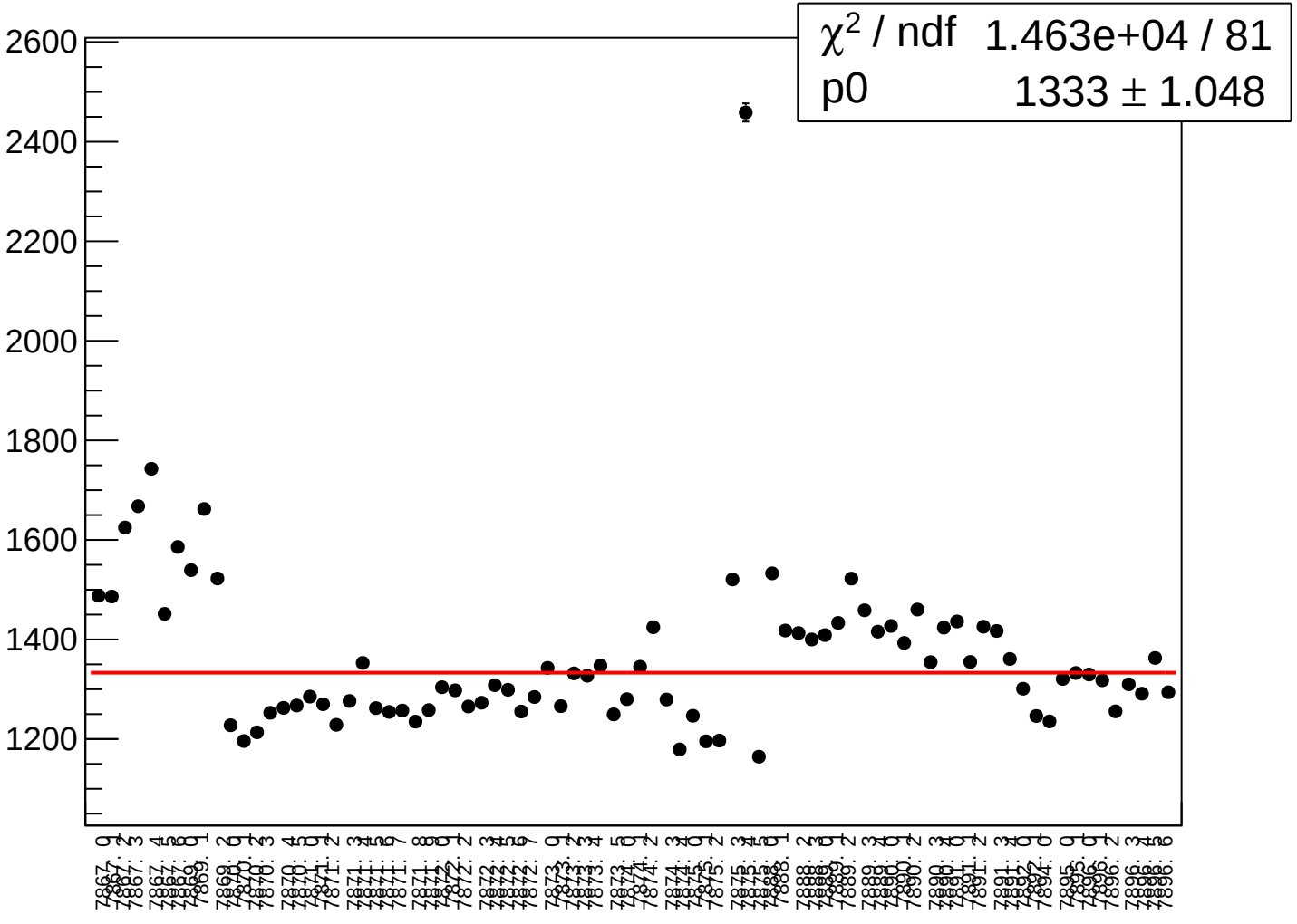

pull1D
Entries 82
Mean 0.007392
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

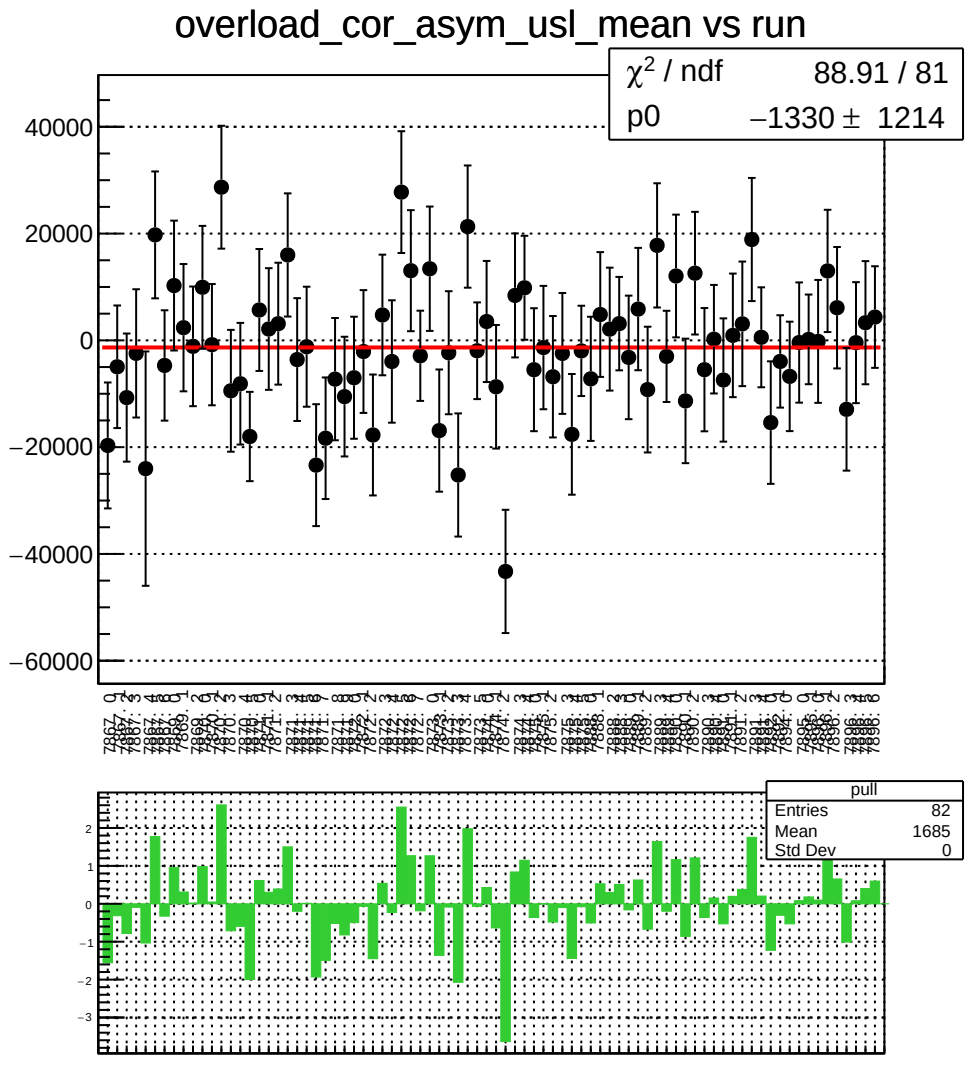

cor_asym_usl_rms vs run
χ² / ndf 500.3 / 81
p0 1093 ± 0.856
1200
1180
1160
1140
1120
1100
1080
1060

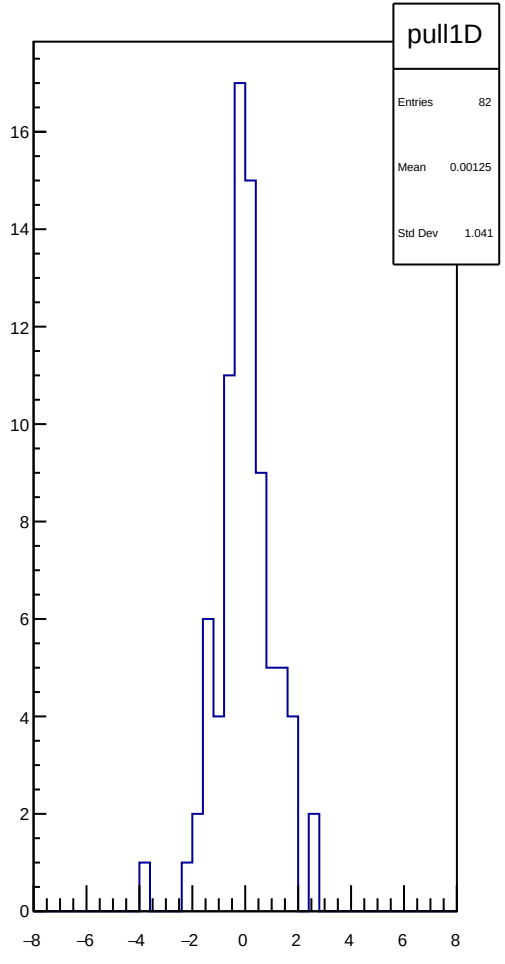

asym_usl_cor_correction_mean vs run
χ² / ndf 70.52 / 81
p0 1312 ± 1482
pull
Entries 82
Mean 371.8
Std Dev 0

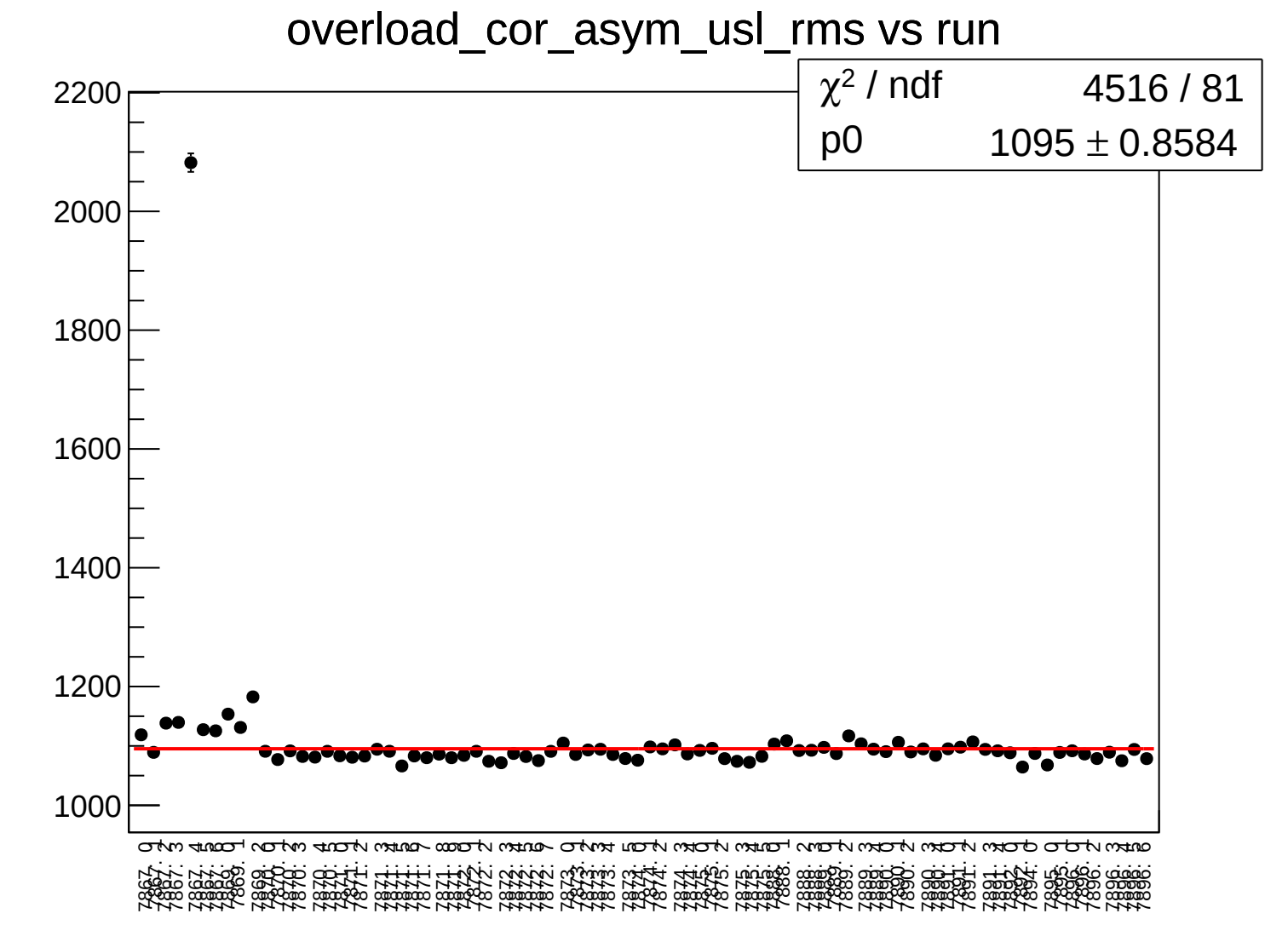

pull1D
Entries 82
Mean −0.006826
Std Dev 0.9273

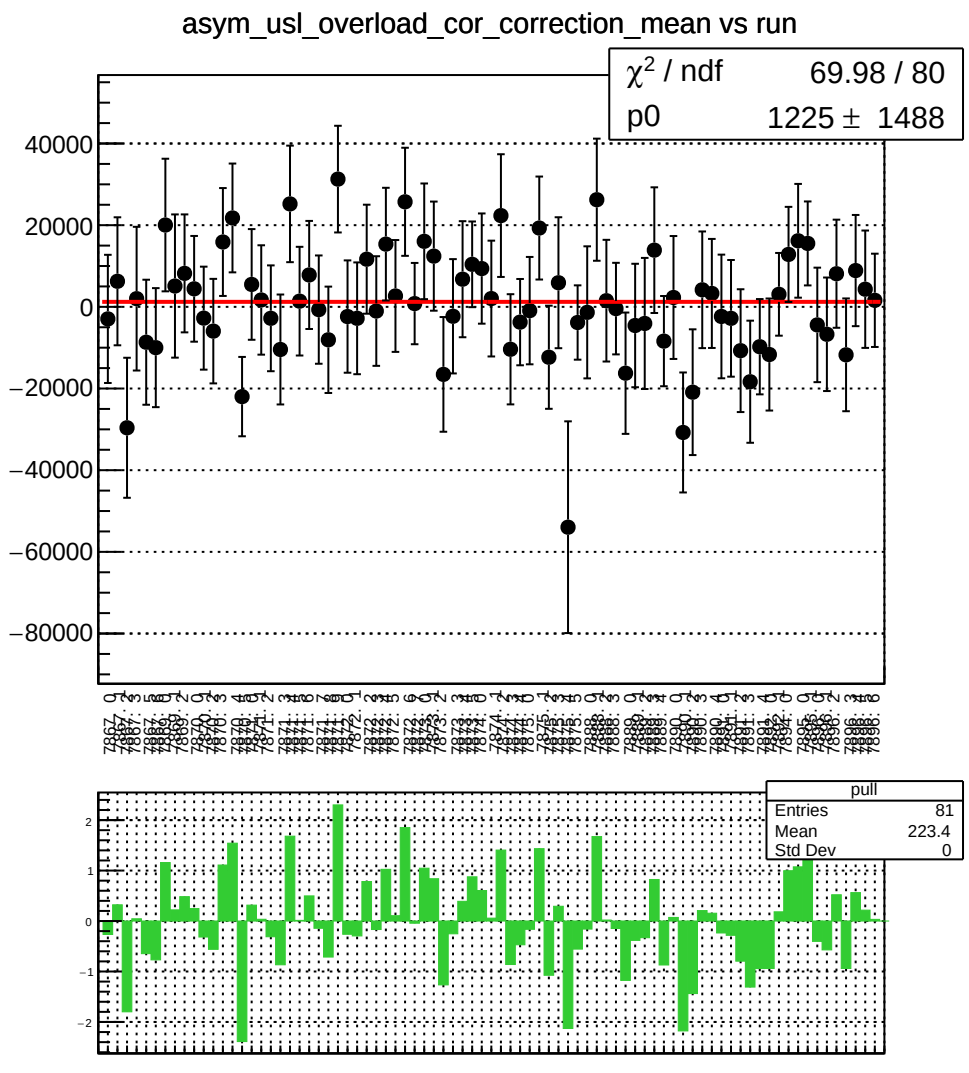
asym_usl_cor_correction_rms vs run

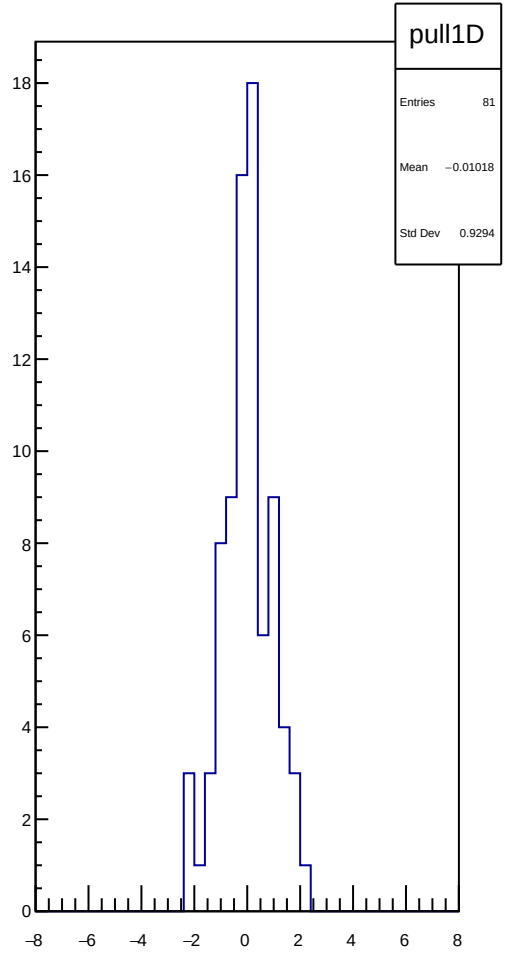


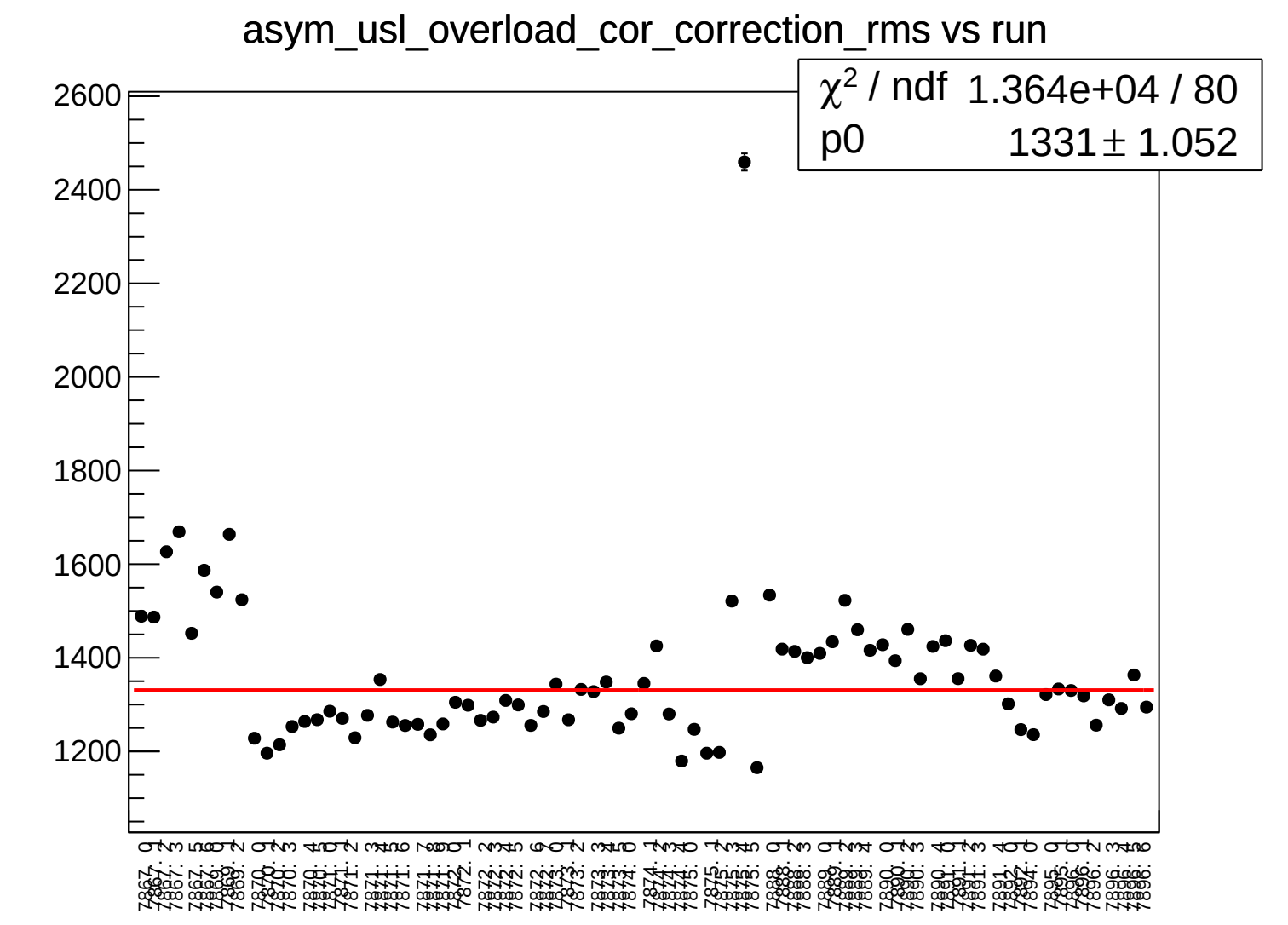

overload_cor_asym_usl_mean vs run
χ² / ndf 88.91 / 81
p0 −1330 ± 1214
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1685
Std Dev 0
2
1
0
−1
−2
−3

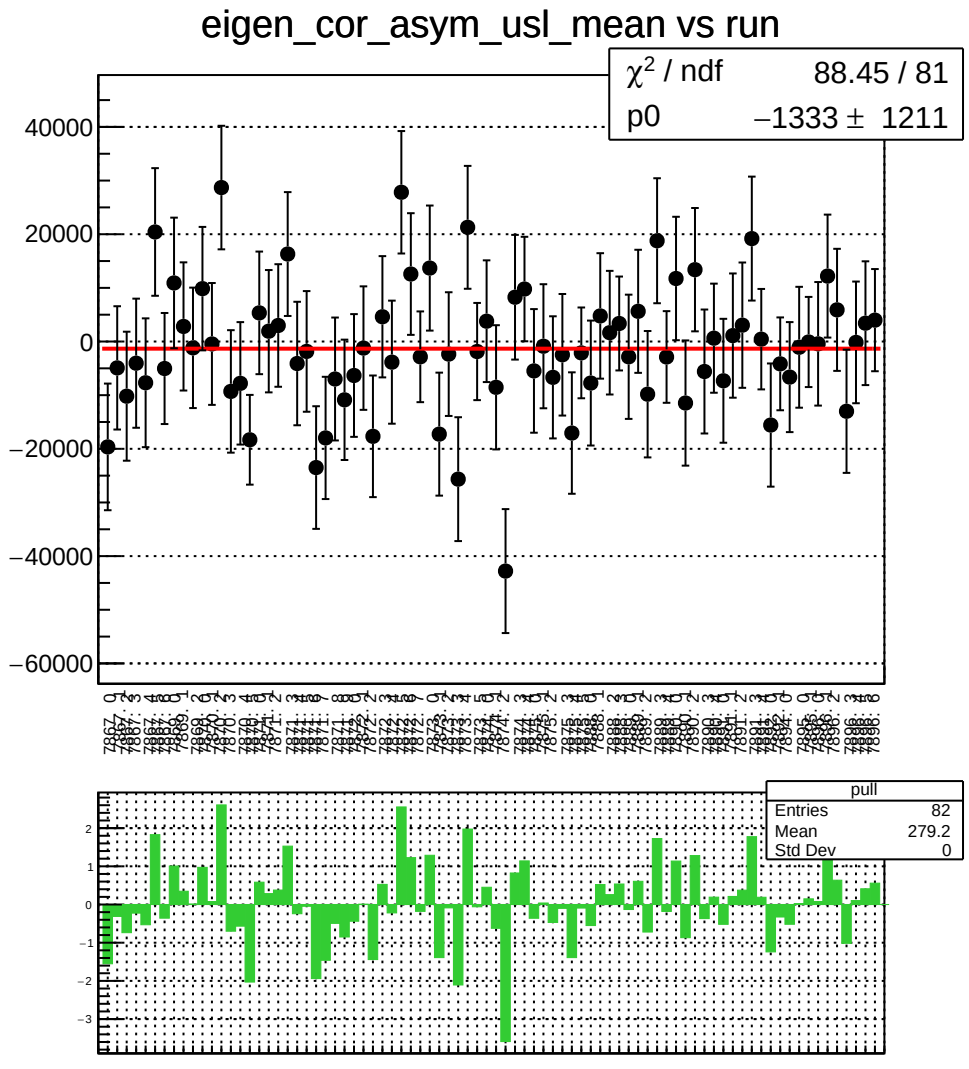

pull1D
Entries 82
Mean 0.00125
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

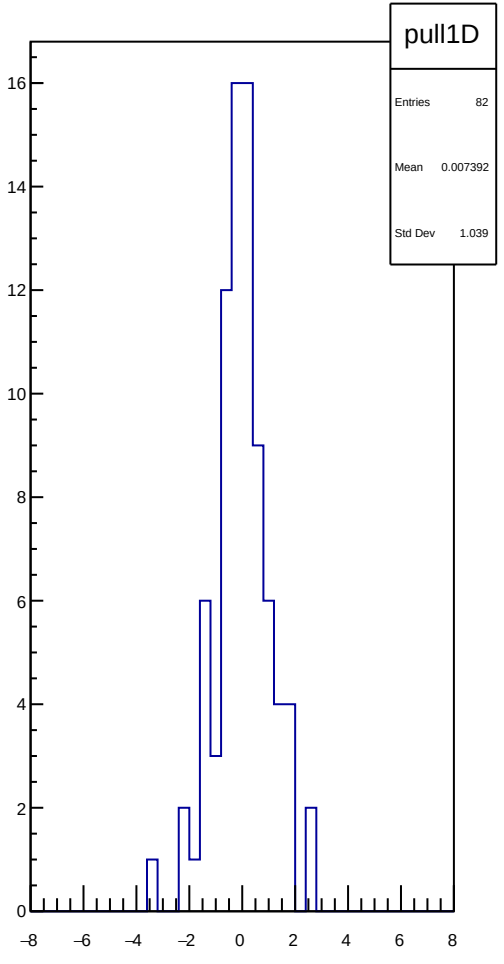

overload_cor_asym_usl_rms vs run
χ² / ndf 4516 / 81
p0 1095 ± 0.8584
2200
2000
1800
1600
1400
1200
1000

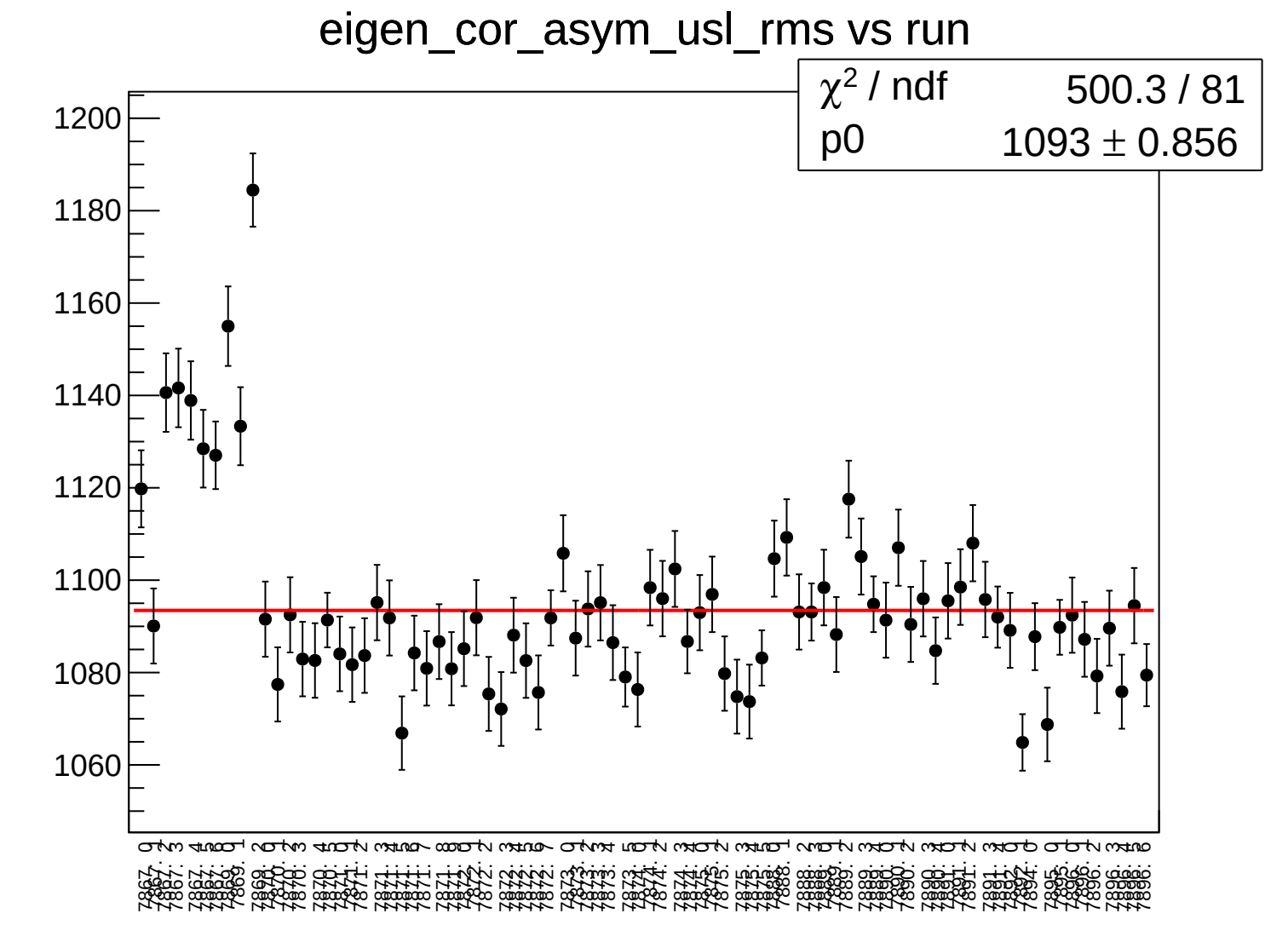

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 69.98 / 80
p0 1225 ± 1488
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean 223.4
Std Dev 0
2
1
0
−1
−2

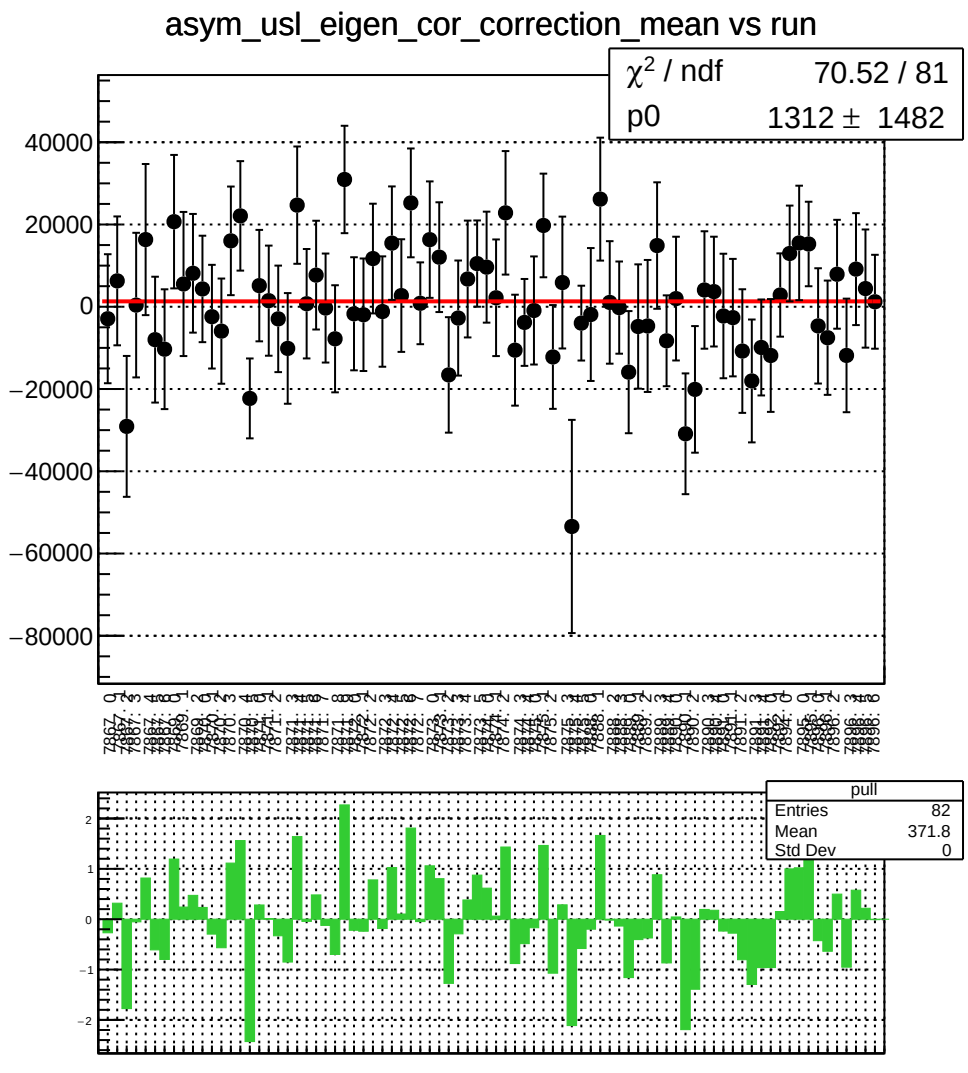

pull1D
Entries 81
Mean −0.01018
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

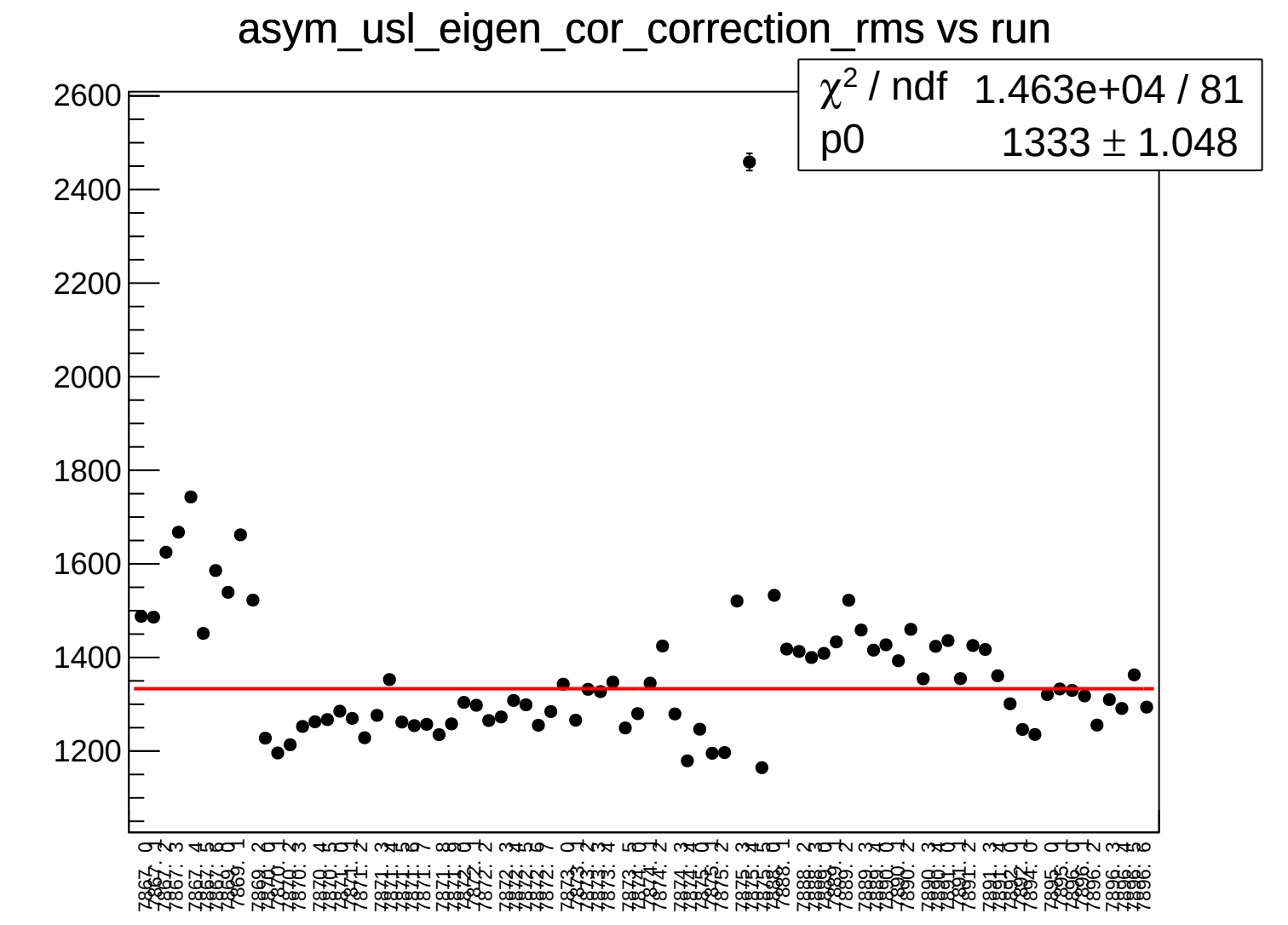

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.364e+04 / 80
p0 1331 ± 1.052
2600
2400
2200
2000
1800
1600
1400
1200

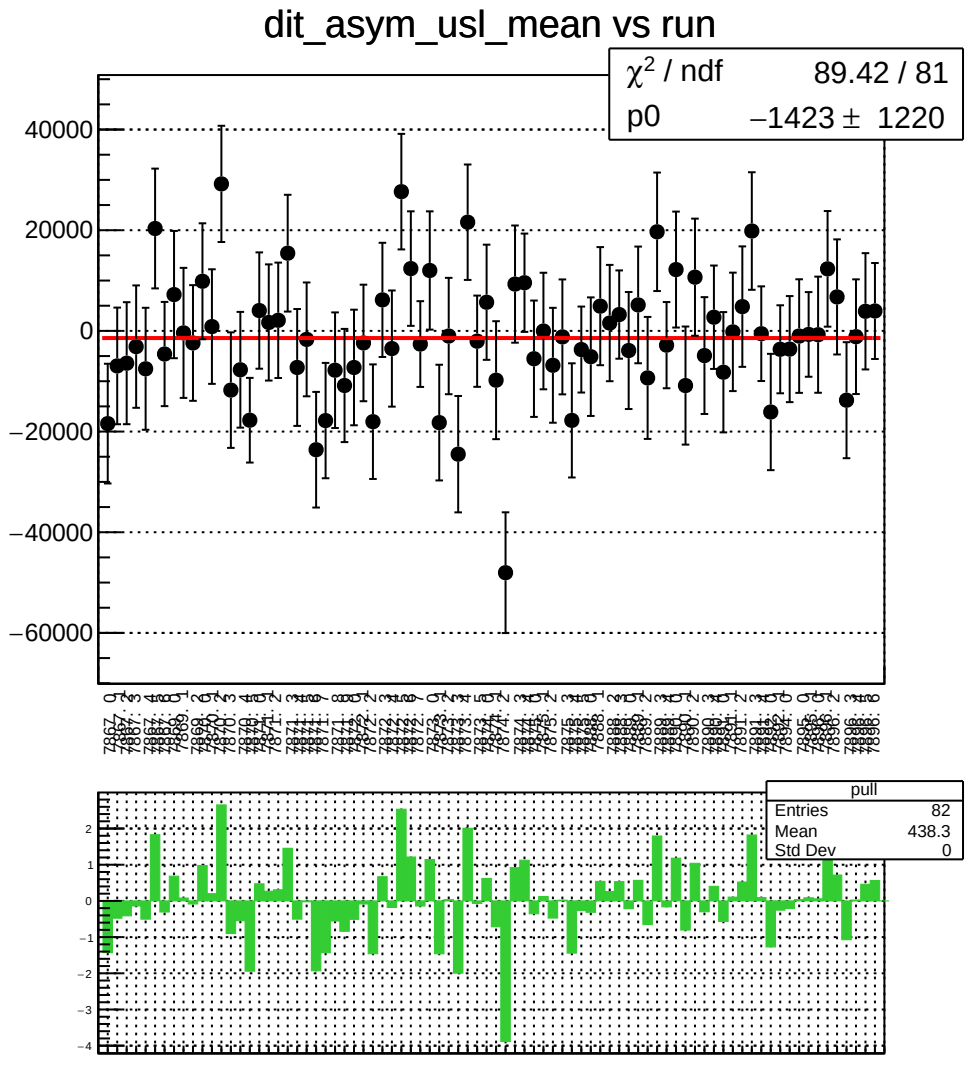

eigen_cor_asym_usl_mean vs run
χ² / ndf 88.45 / 81
p0 −1333 ± 1211
pull
Entries 82
Mean 279.2
Std Dev 0

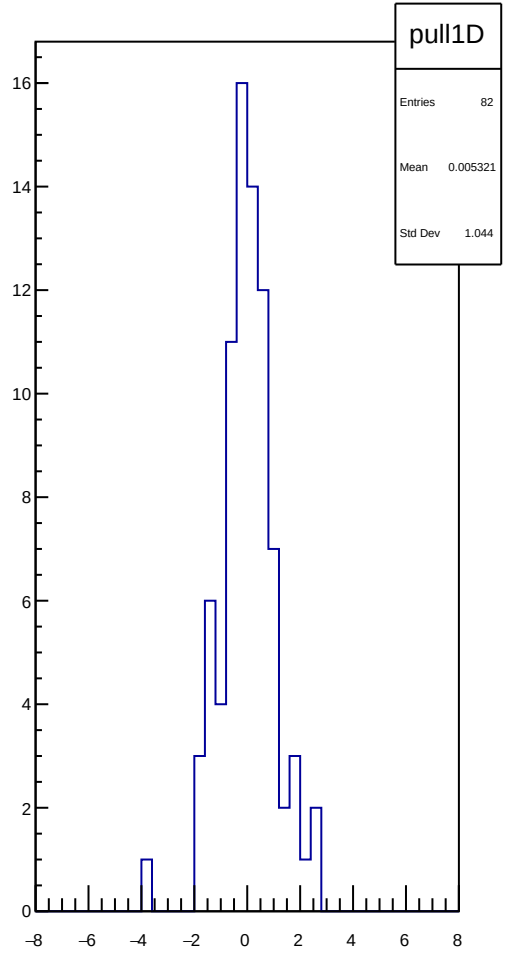

pull1D
Entries 82
Mean 0.007392
Std Dev 1.039

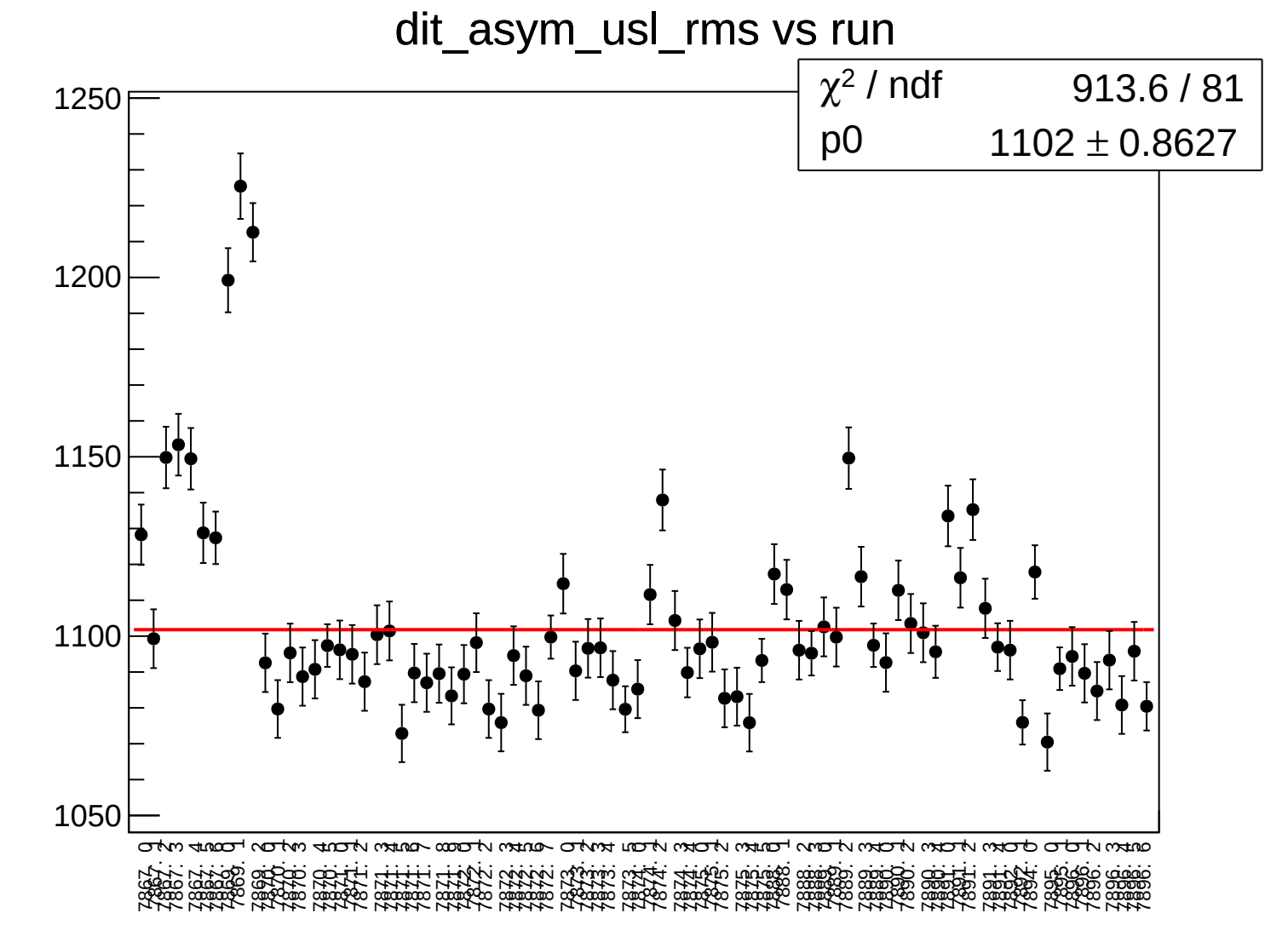

eigen_cor_asym_usl_rms vs run
χ² / ndf 500.3 / 81
p0 1093 ± 0.856
1200
1180
1160
1140
1120
1100
1080
1060

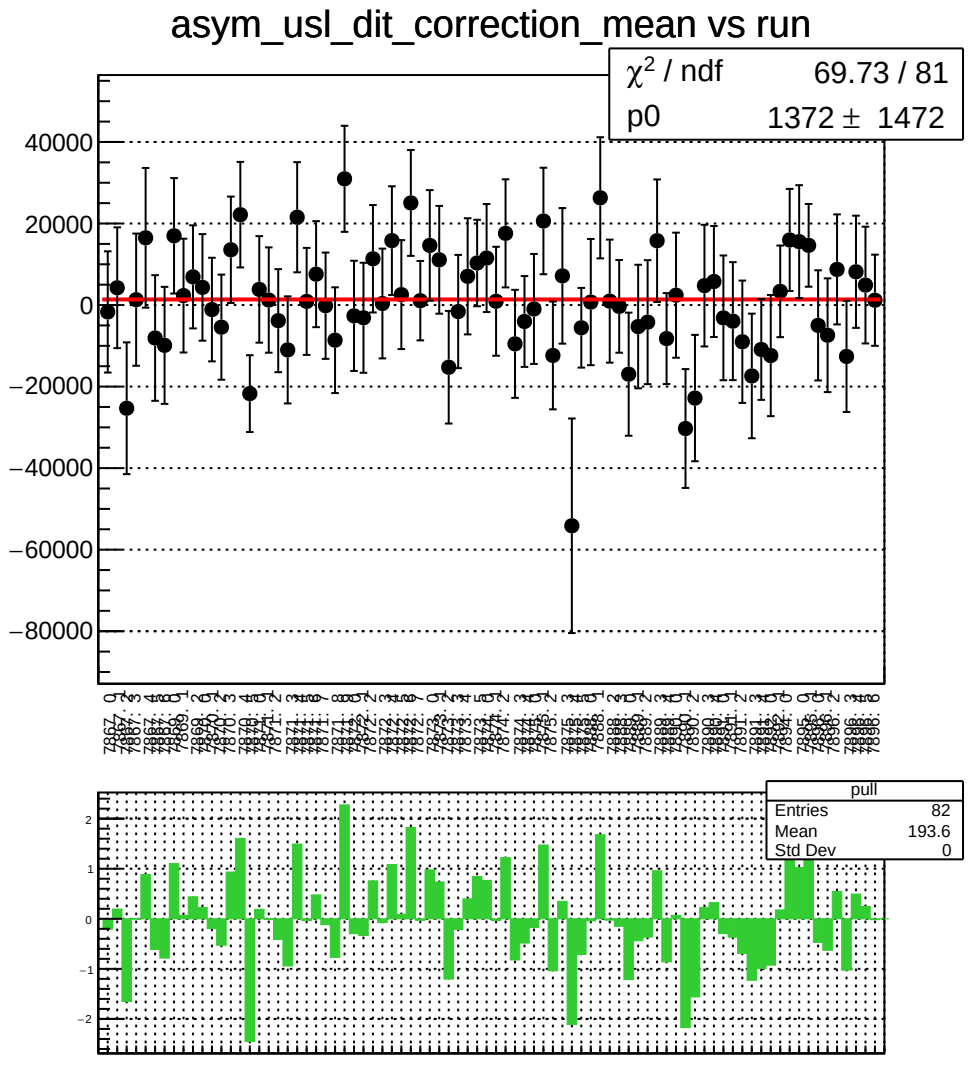

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 70.52 / 81
p0 1312 ± 1482
pull
Entries 82
Mean 371.8
Std Dev 0
pull1D
Entries 82
Mean −0.006826
Std Dev 0.9273

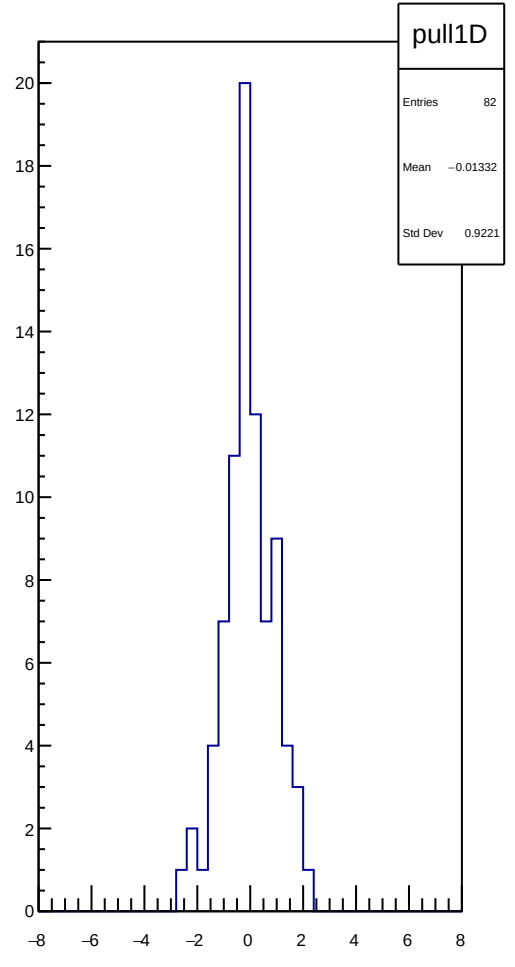

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.463e+04 / 81
p0 1333 ± 1.048
2600
2400
2200
2000
1800
1600
1400
1200

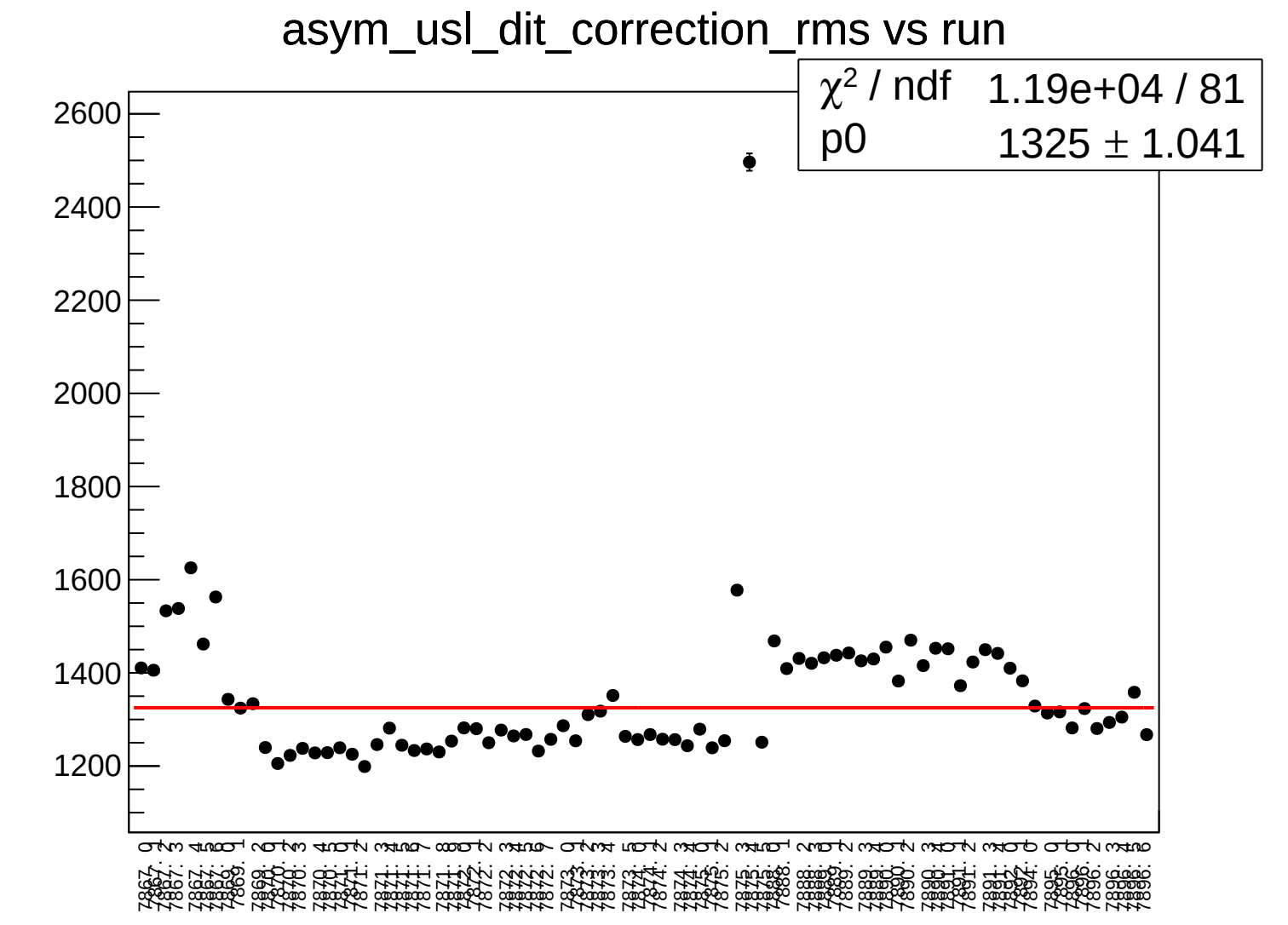

dit_asym_usl_mean vs run
χ² / ndf 89.42 / 81
p0 −1423 ± 1220
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 438.3
Std Dev 0
2
1
0
−1
−2
−3
−4

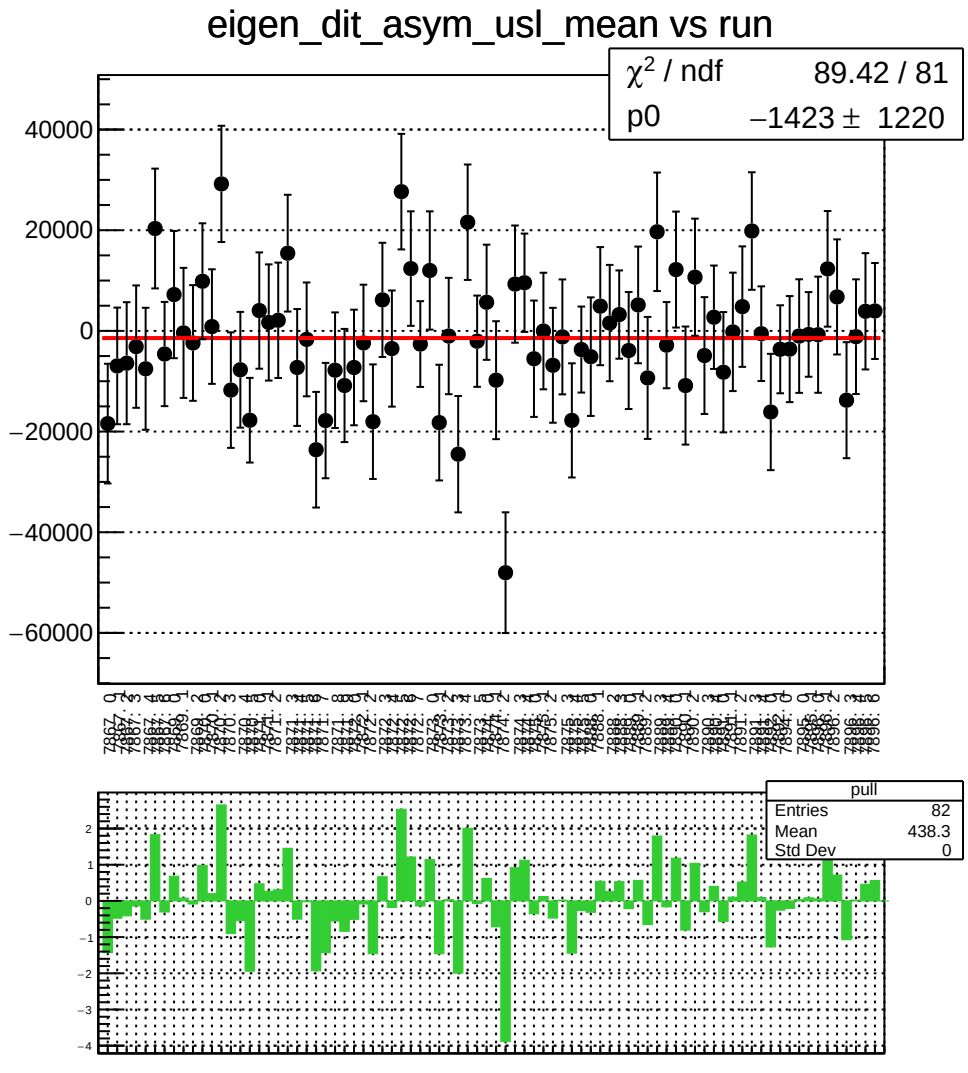

pull1D
Entries 82
Mean 0.005321
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

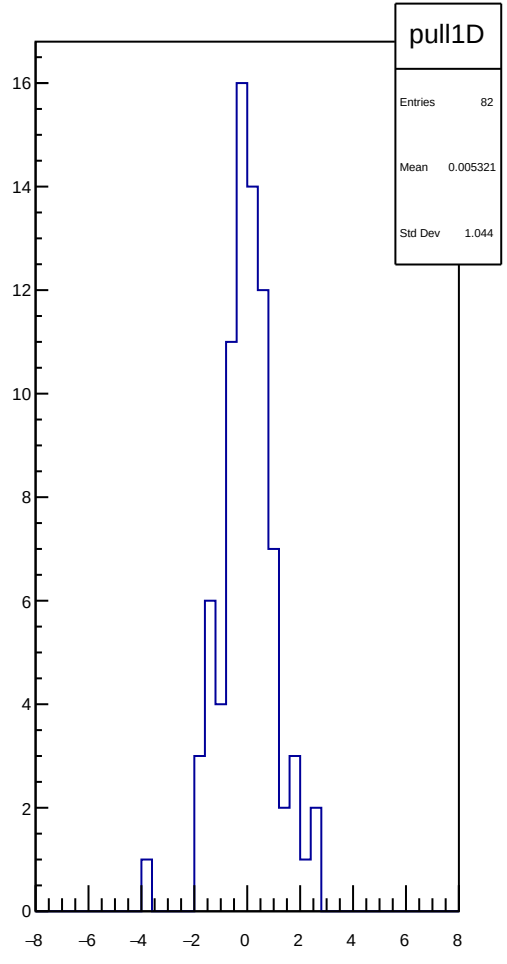

dit_asym_usl_rms vs run
χ² / ndf 913.6 / 81
p0 1102 ± 0.8627
1250
1200
1150
1100
1050

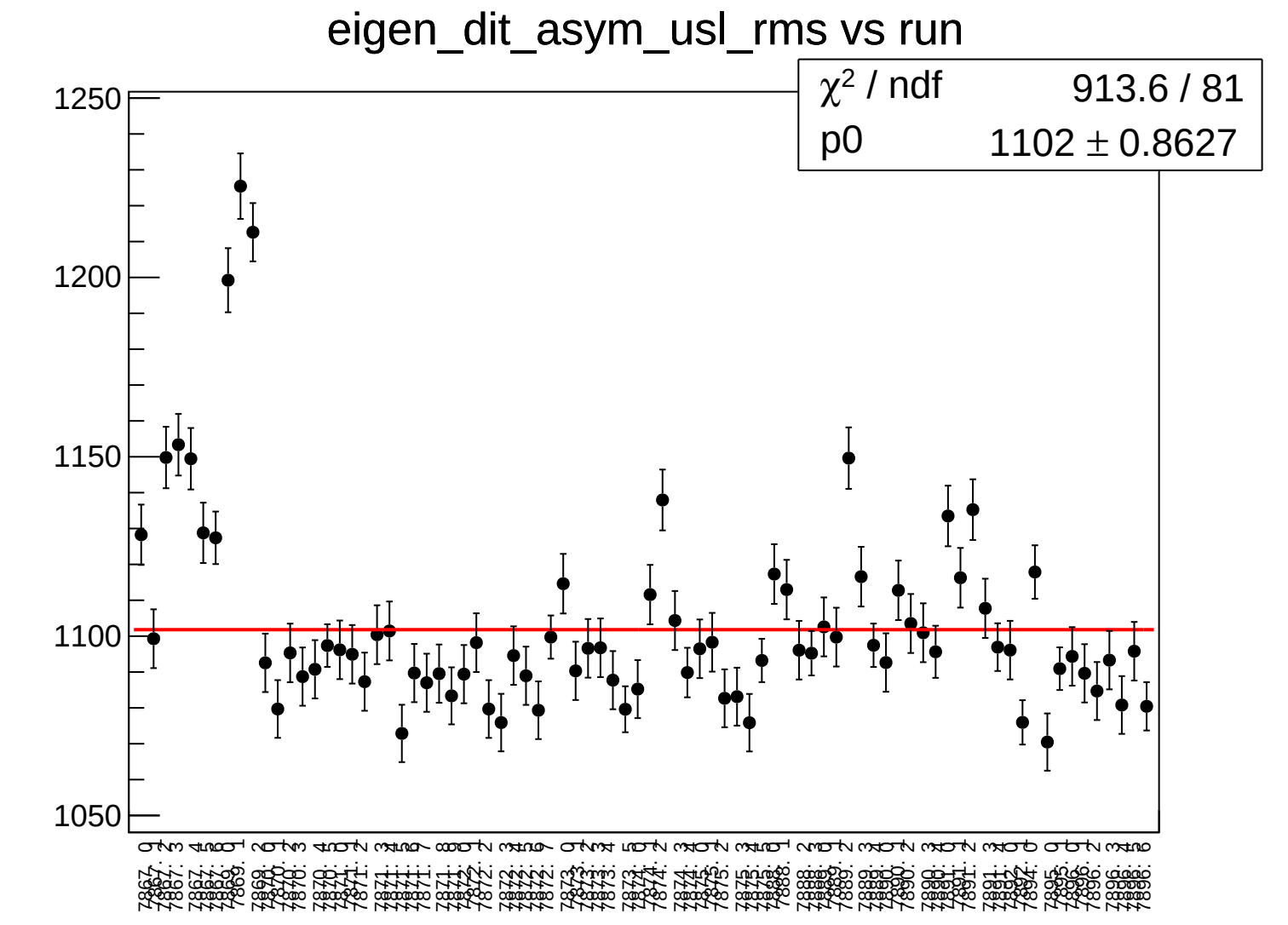

asym_usl_dit_correction_mean vs run
χ² / ndf 69.73 / 81
p0 1372 ± 1472
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 193.6
Std Dev 0
2
1
0
−1
−2

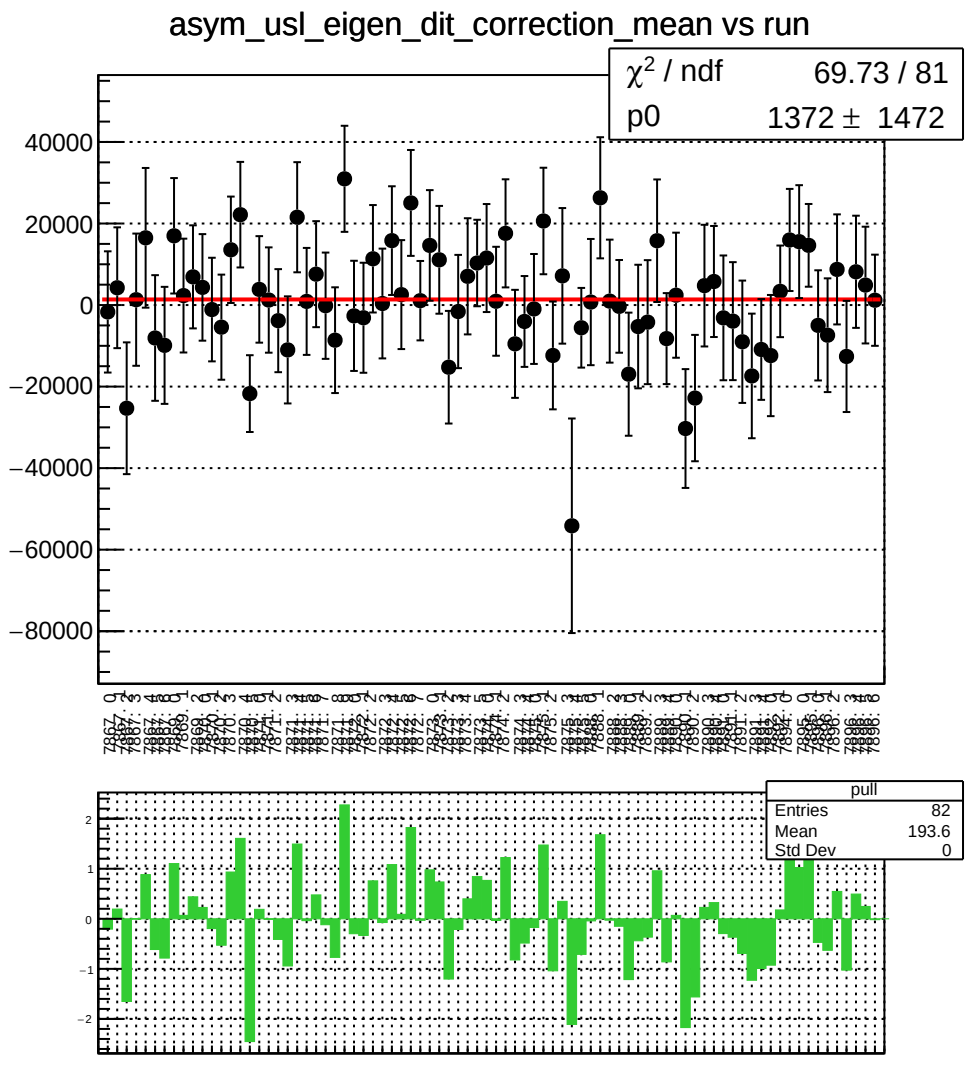

pull1D
Entries 82
Mean −0.01332
Std Dev 0.9221
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

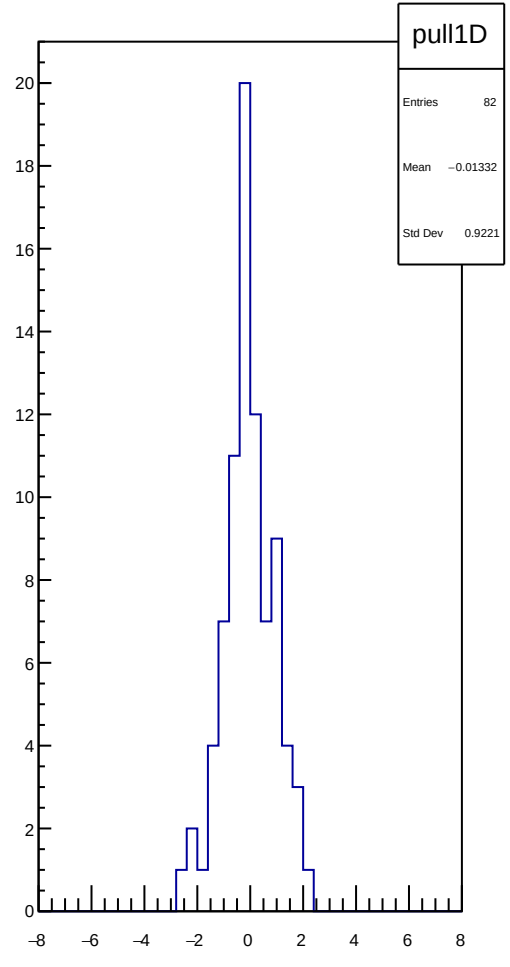

asym_usl_dit_correction_rms vs run
χ² / ndf 1.19e+04 / 81
p0 1325 ± 1.041
2600
2400
2200
2000
1800
1600
1400
1200

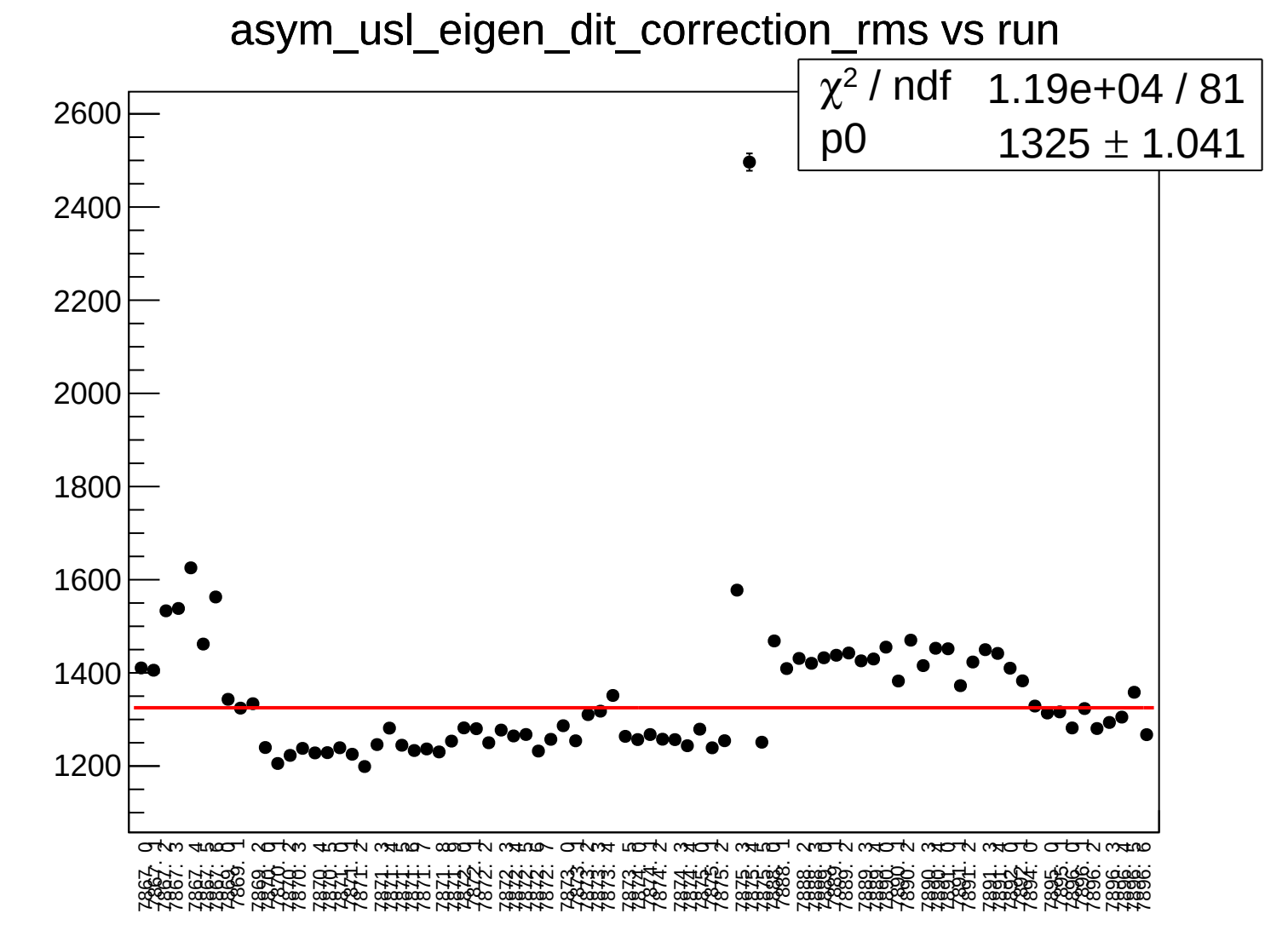

eigen_dit_asym_usl_mean vs run
χ² / ndf 89.42 / 81
p0 −1423 ± 1220
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 438.3
Std Dev 0
2
1
0
−1
−2
−3
−4

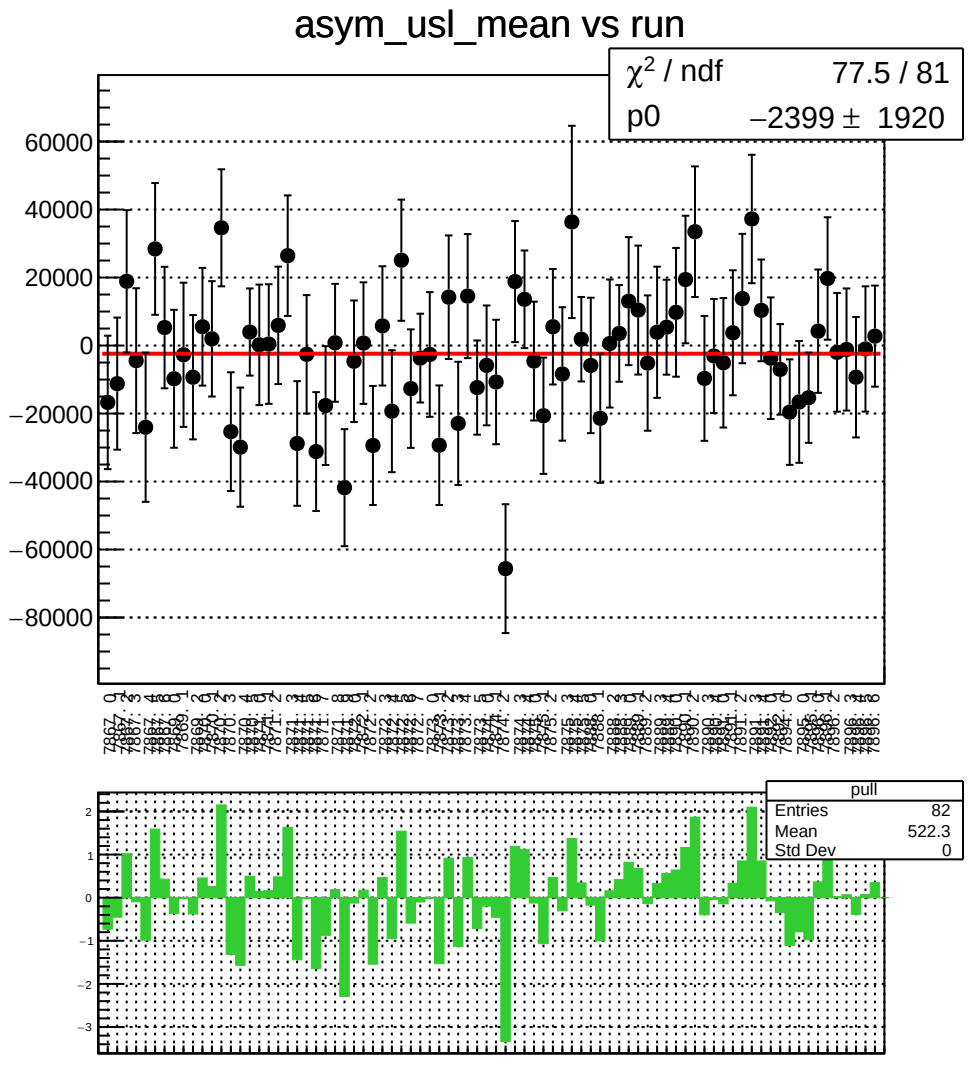

pull1D
Entries 82
Mean 0.005321
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

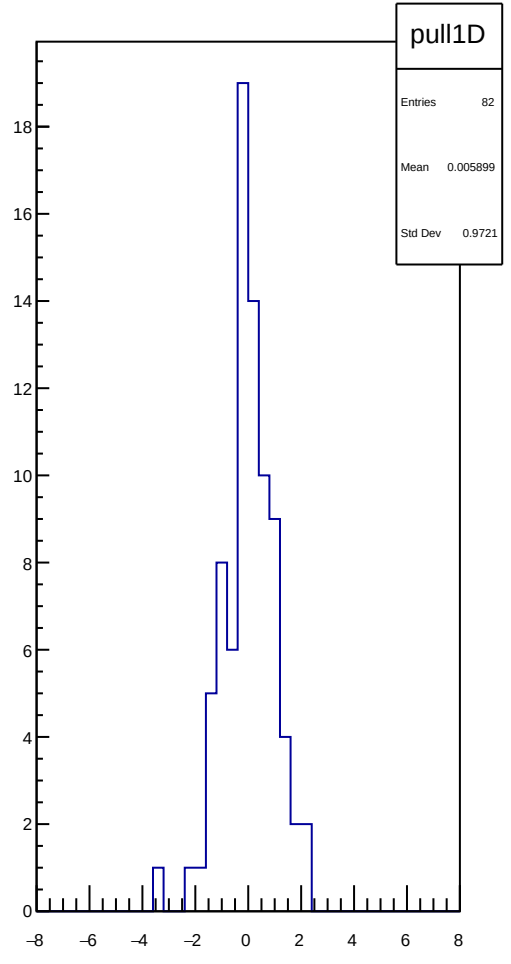

eigen_dit_asym_usl_rms vs run
χ² / ndf 913.6 / 81
p0 1102 ± 0.8627
1250
1200
1150
1100
1050

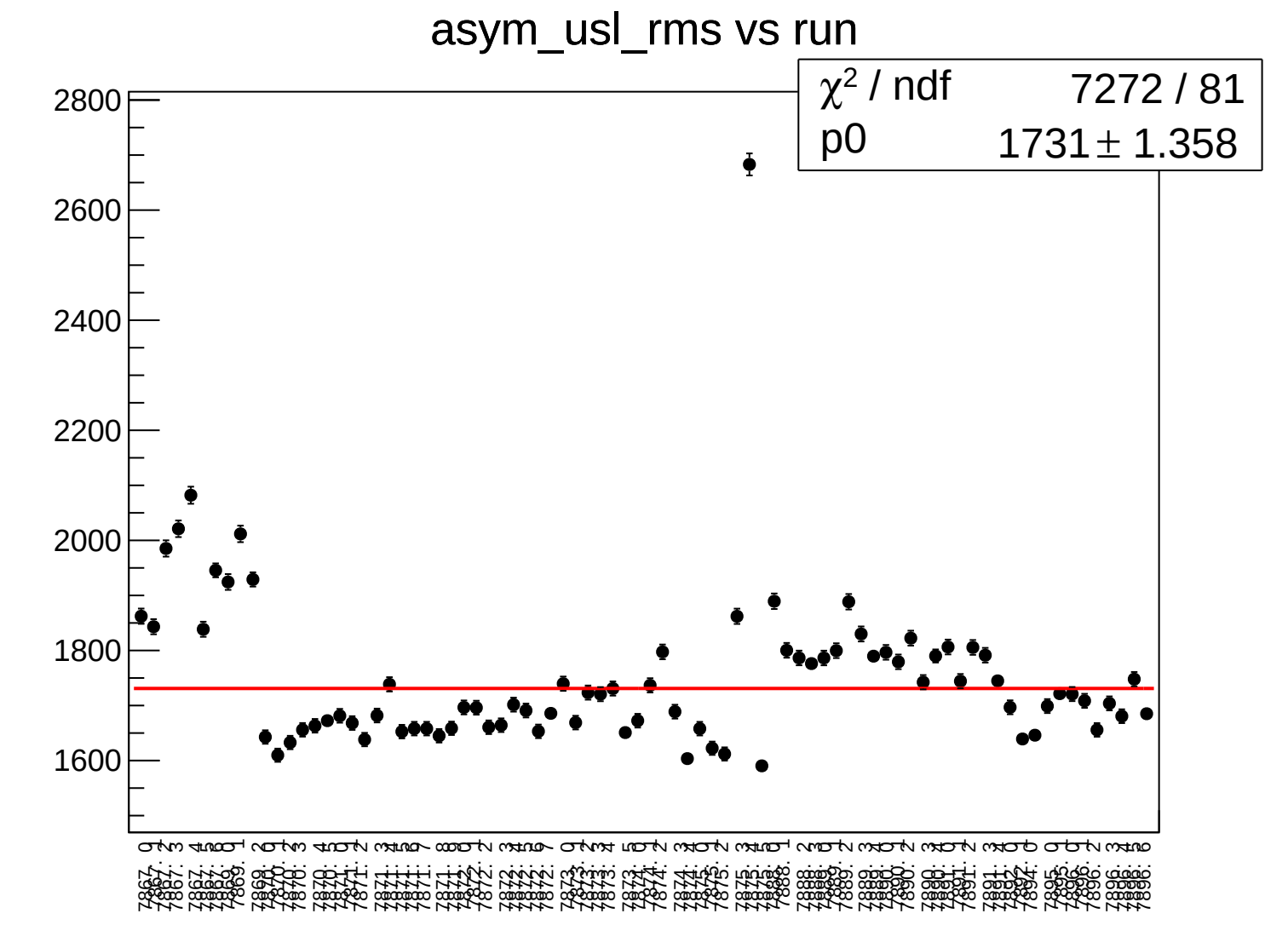

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 69.73 / 81
p0 1372 ± 1472
pull
Entries 82
Mean 193.6
Std Dev 0

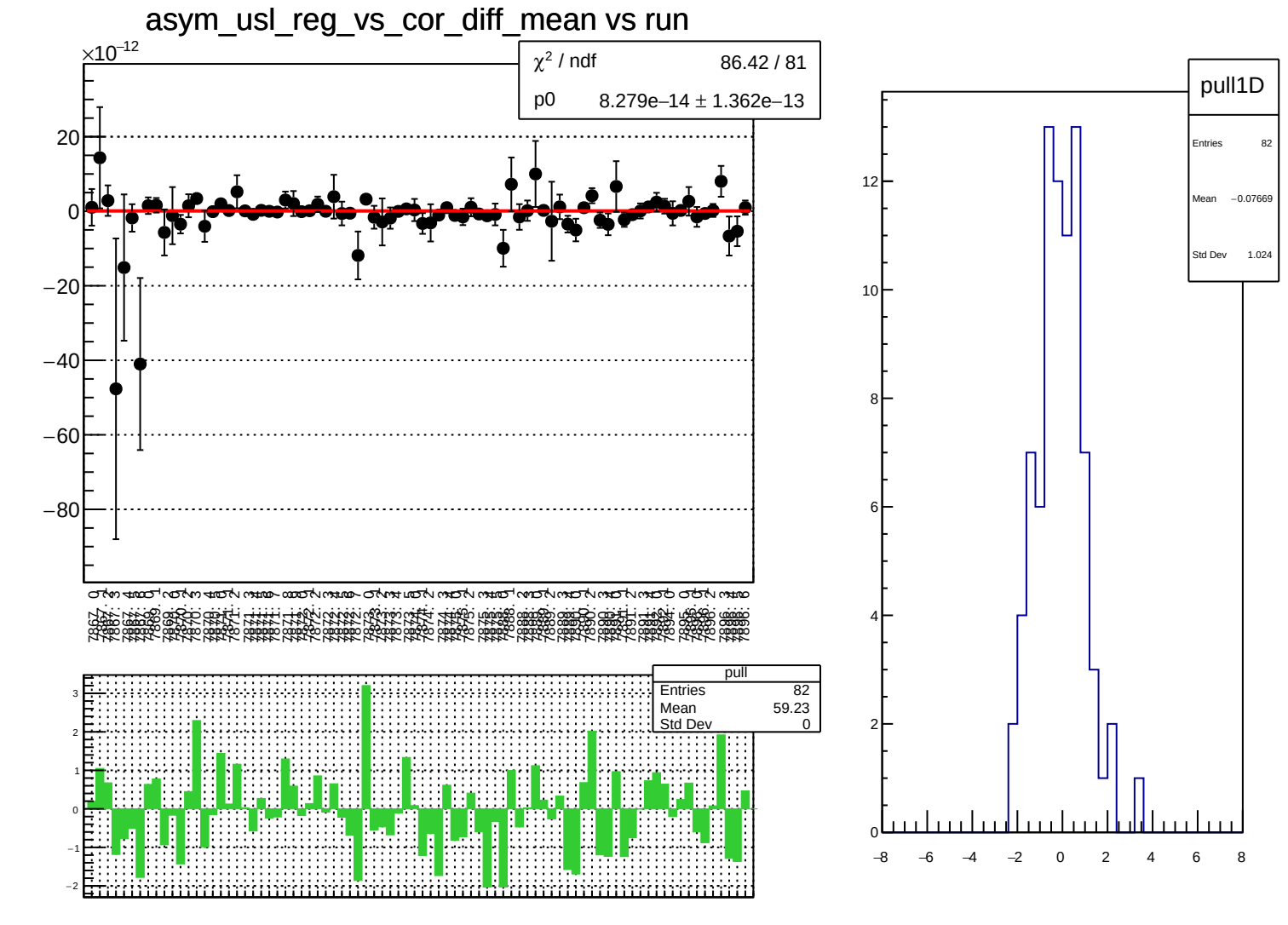

pull1D
Entries 82
Mean −0.01332
Std Dev 0.9221

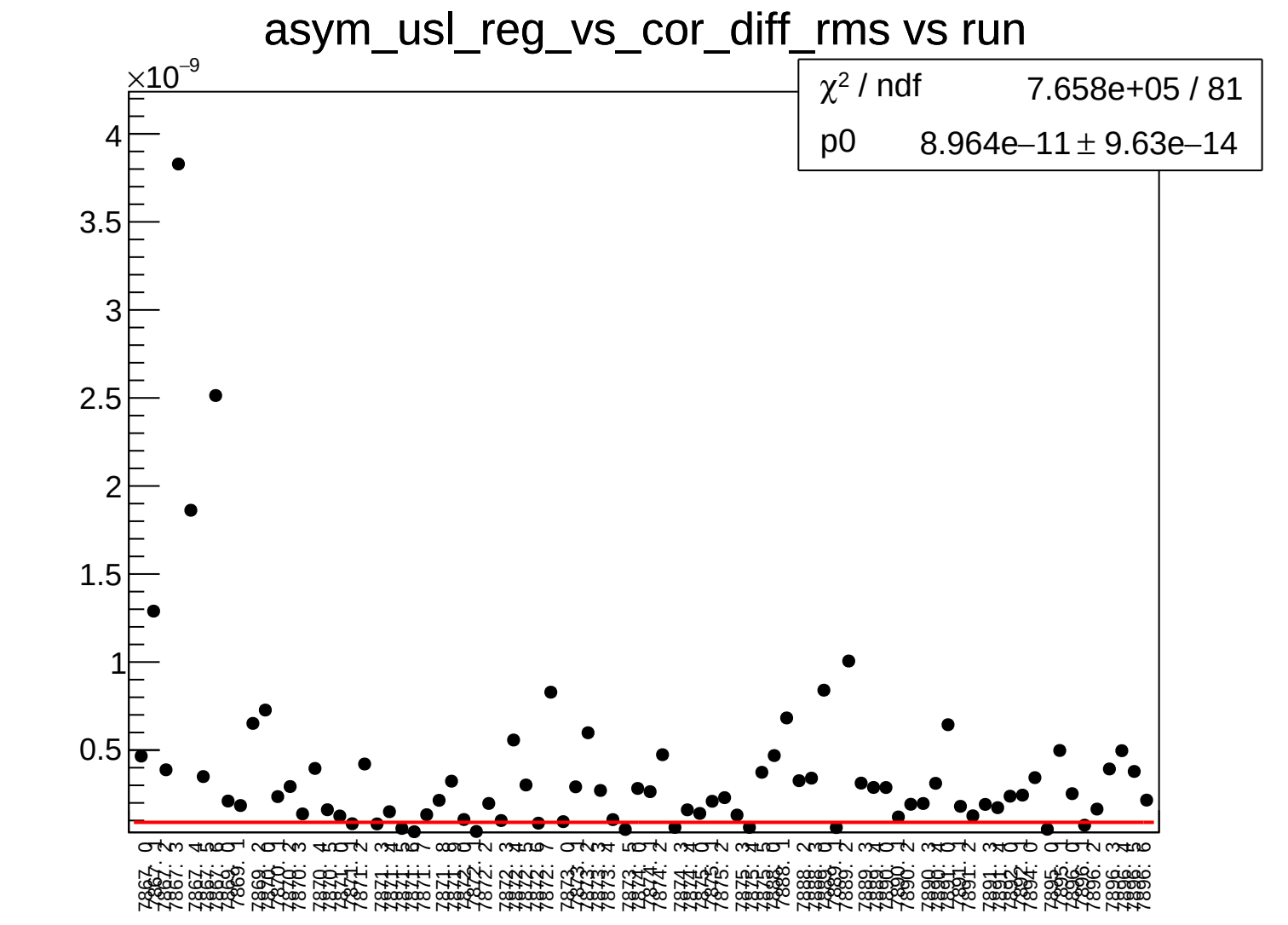

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.19e+04 / 81
p0 1325 ± 1.041
2600
2400
2200
2000
1800
1600
1400
1200

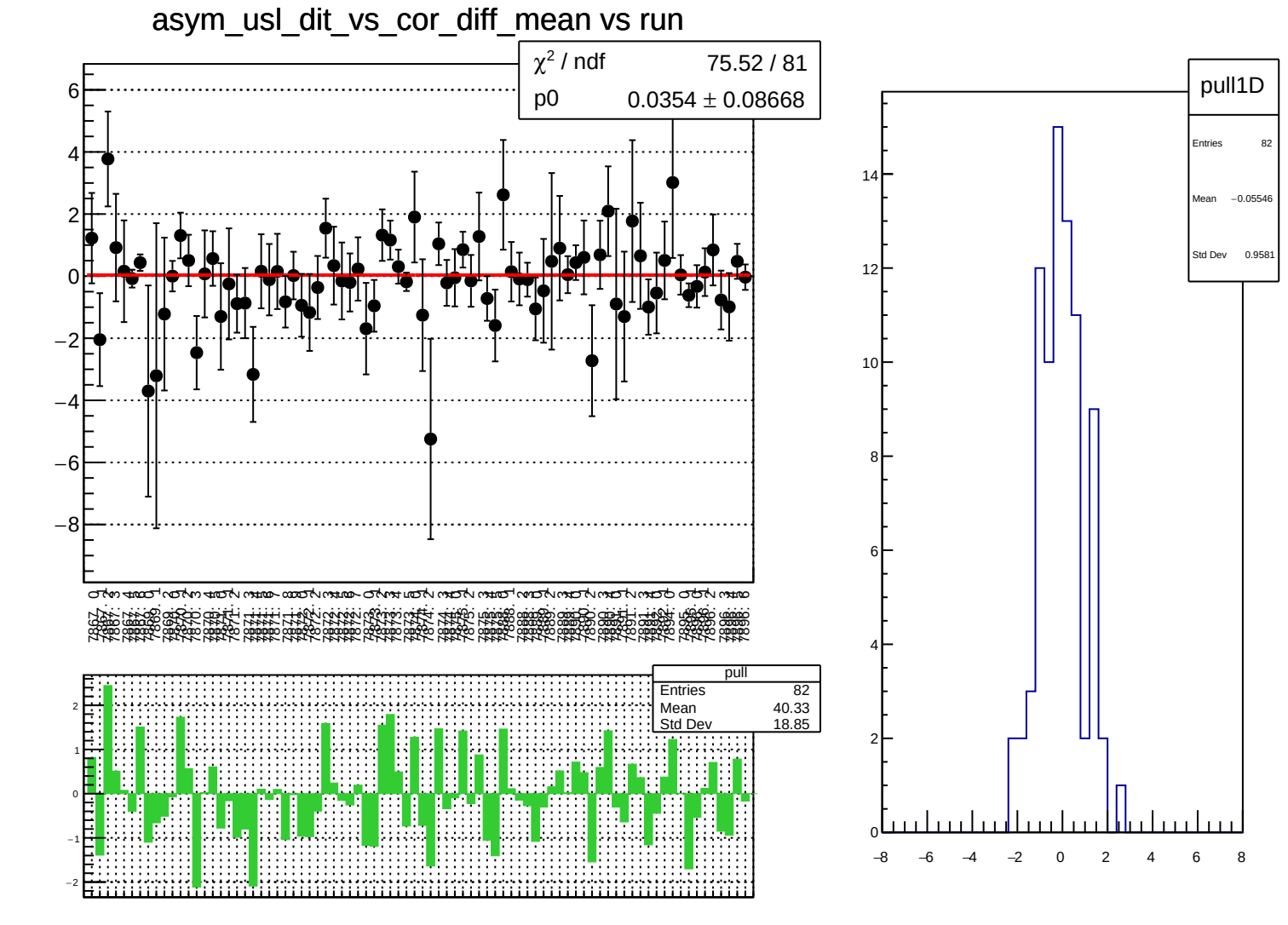

asym_usl_mean vs run
χ² / ndf 77.5 / 81
p0 −2399 ± 1920
pull
Entries 82
Mean 522.3
Std Dev 0

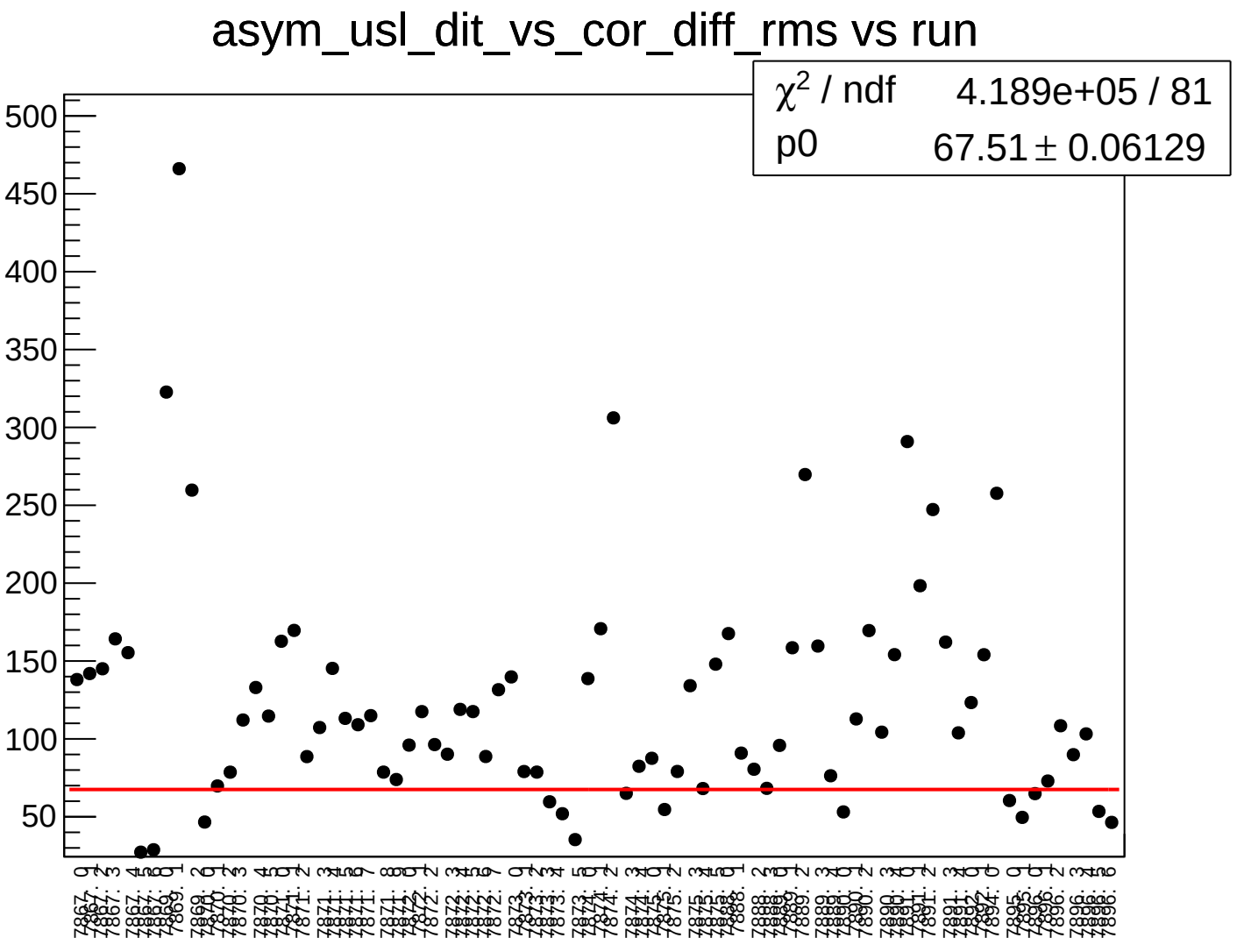

pull1D
Entries 82
Mean 0.005899
Std Dev 0.9721

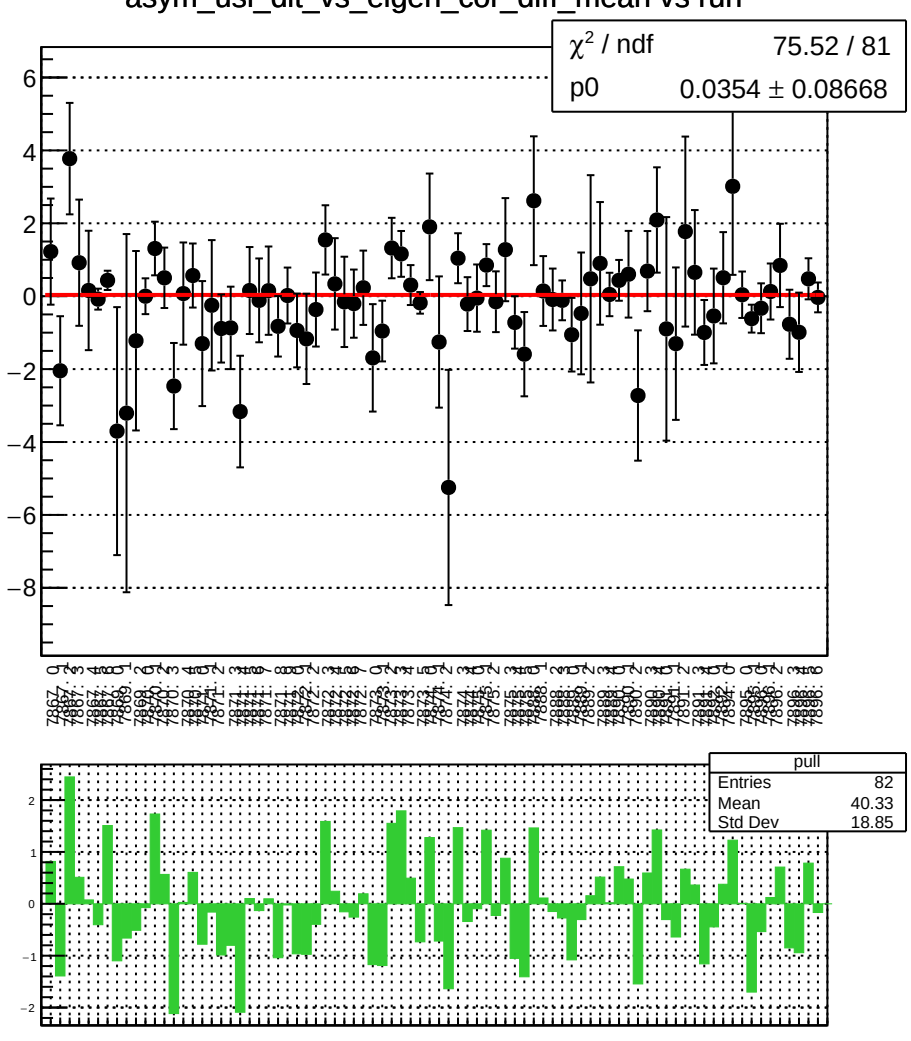

asym_usl_rms vs run
χ² / ndf 7272 / 81
p0 1731 ± 1.358
2800
2600
2400
2200
2000
1800
1600

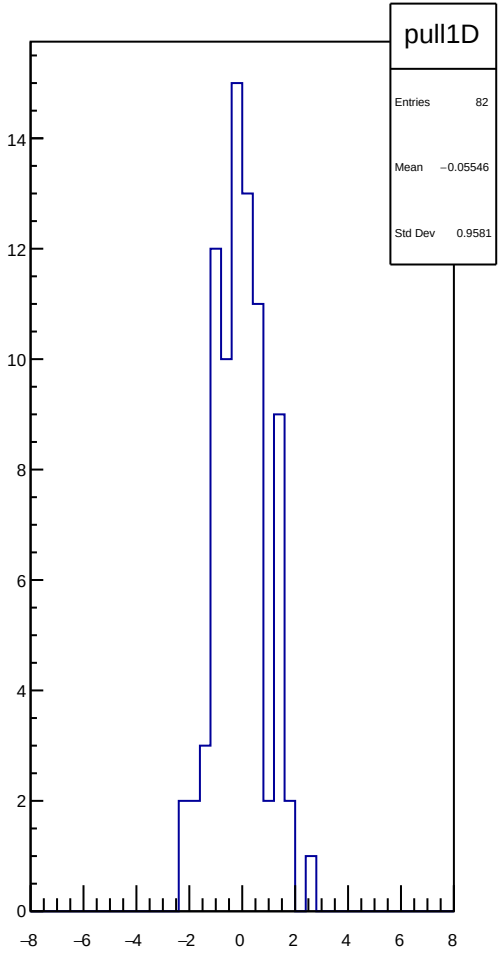

asym_usl_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 86.42 / 81
p0 8.279e−14 ± 1.362e−13
pull
Entries 82
Mean 59.23
Std Dev 0
pull1D
Entries 82
Mean −0.07669
Std Dev 1.024

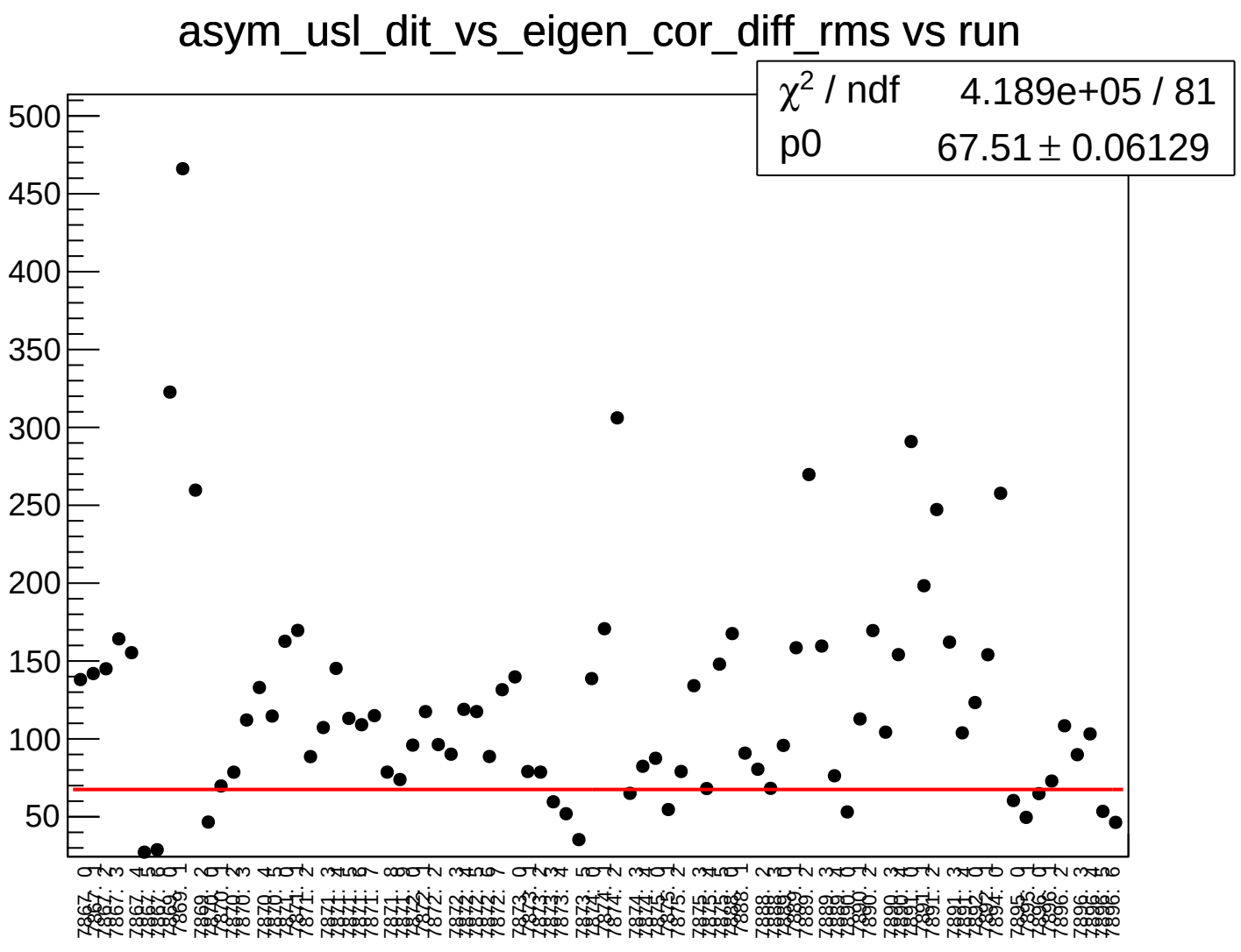

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.658e+05 / 81
p0 8.964e−11 ± 9.63e−14
4
3.5
3
2.5
2
1.5
1
0.5

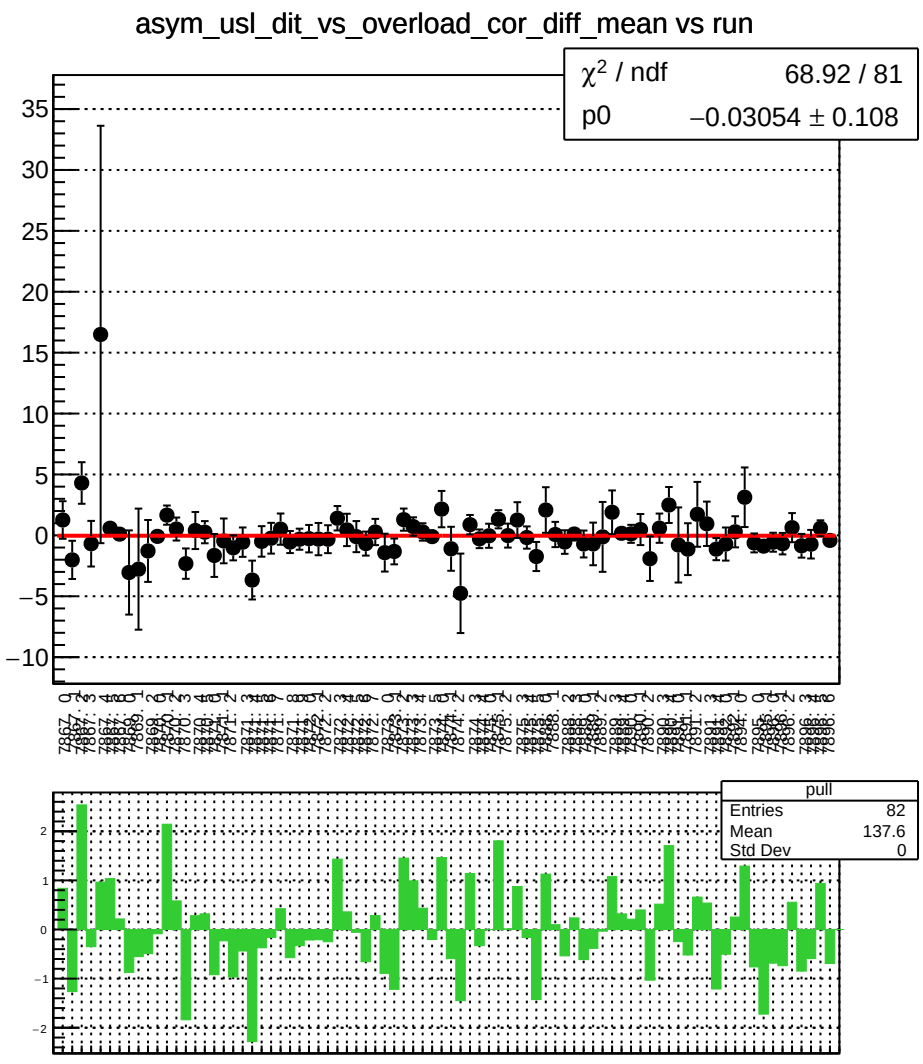

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 75.52 / 81
p0 0.0354 ± 0.08668
pull
Entries 82
Mean 40.33
Std Dev 18.85
pull1D
Entries 82
Mean −0.05546
Std Dev 0.9581

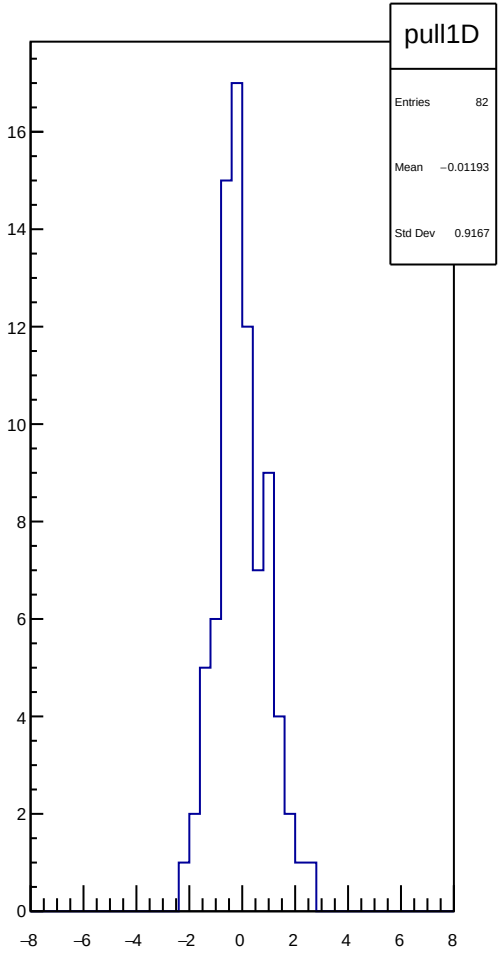

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.189e+05 / 81
p0 67.51 ± 0.06129
500
450
400
350
300
250
200
150
100
50

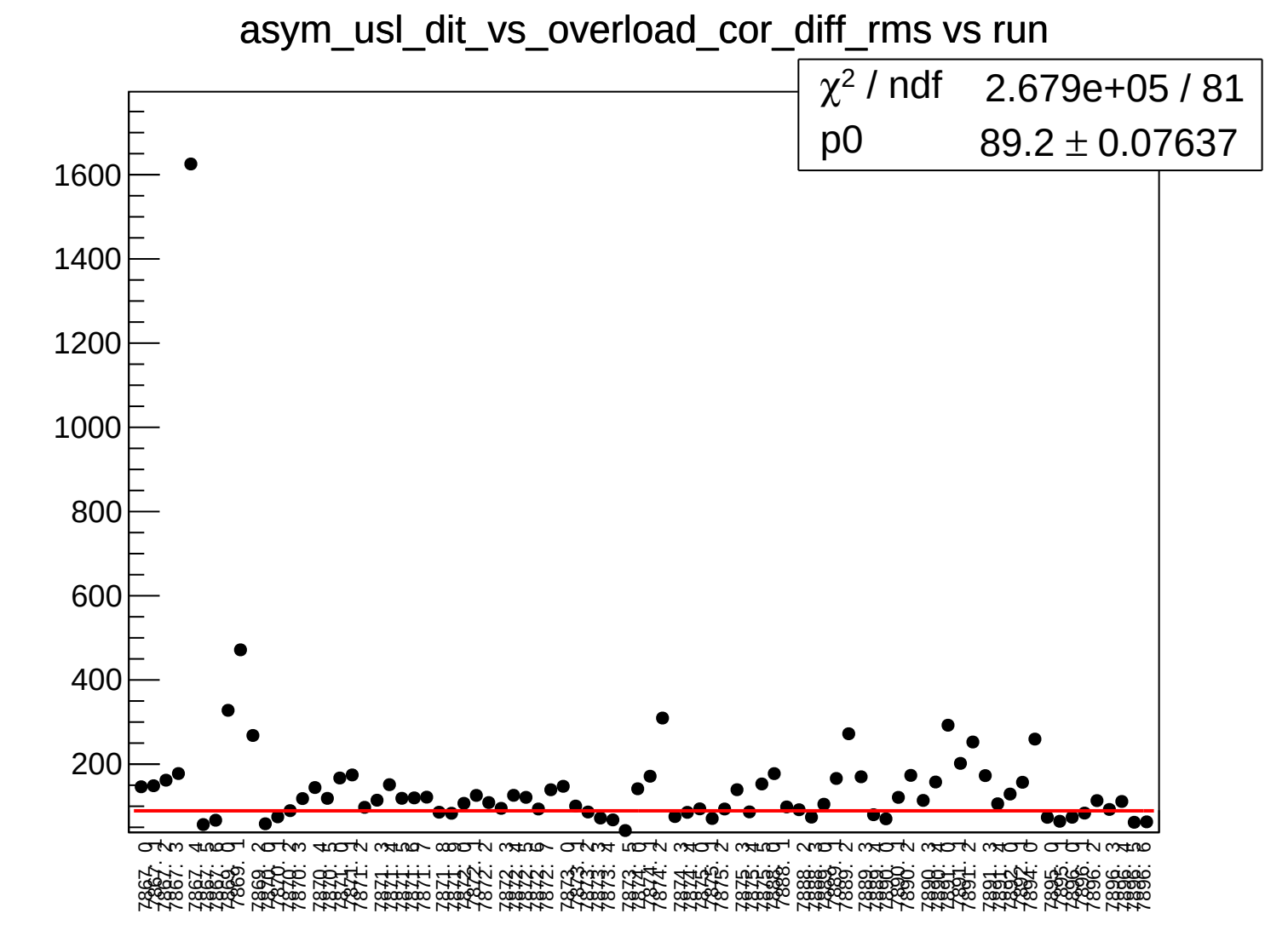

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.52 / 81
p0 0.0354 ± 0.08668
pull
Entries 82
Mean 40.33
Std Dev 18.85

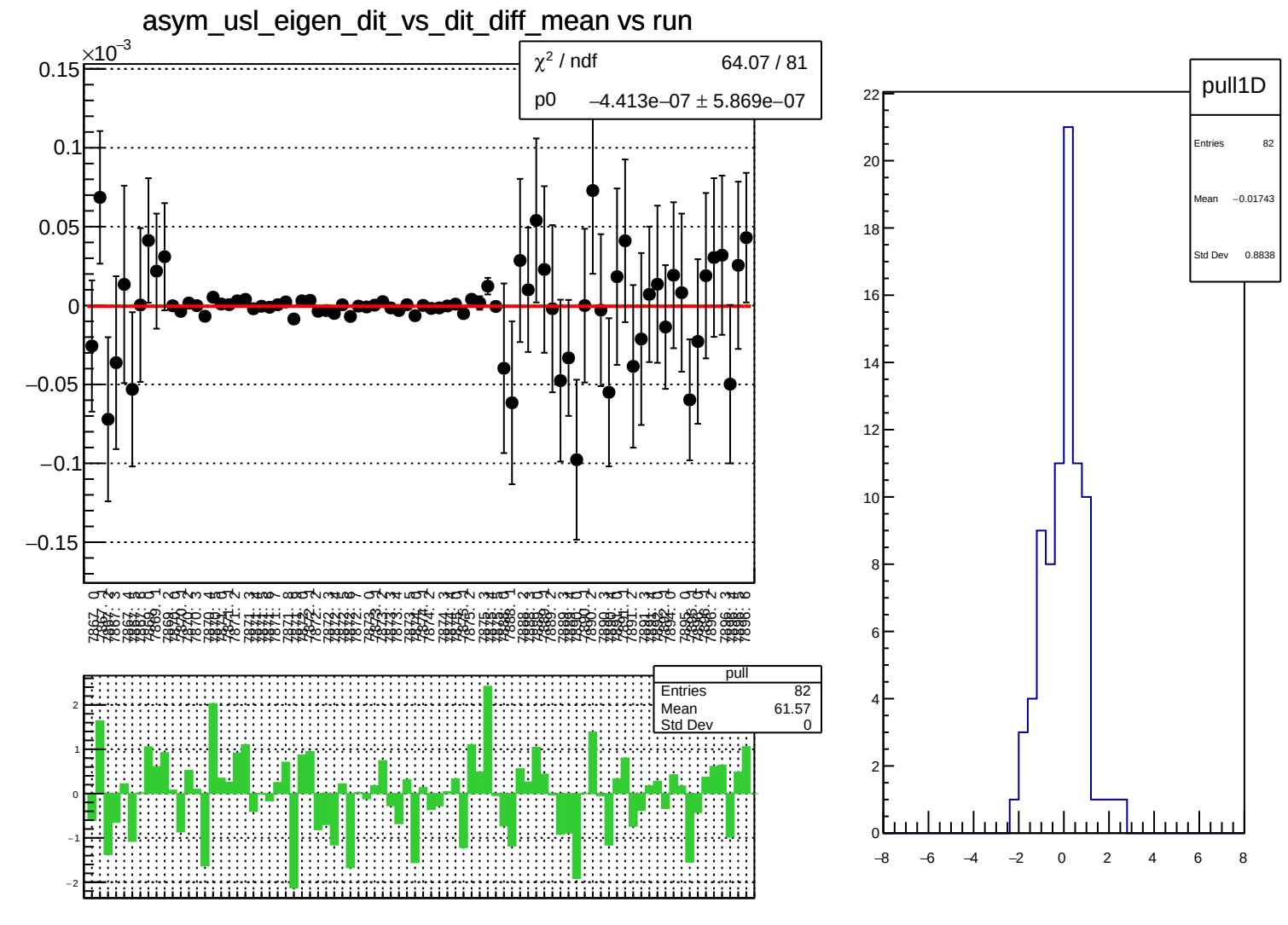

pull1D
Entries 82
Mean −0.05546
Std Dev 0.9581

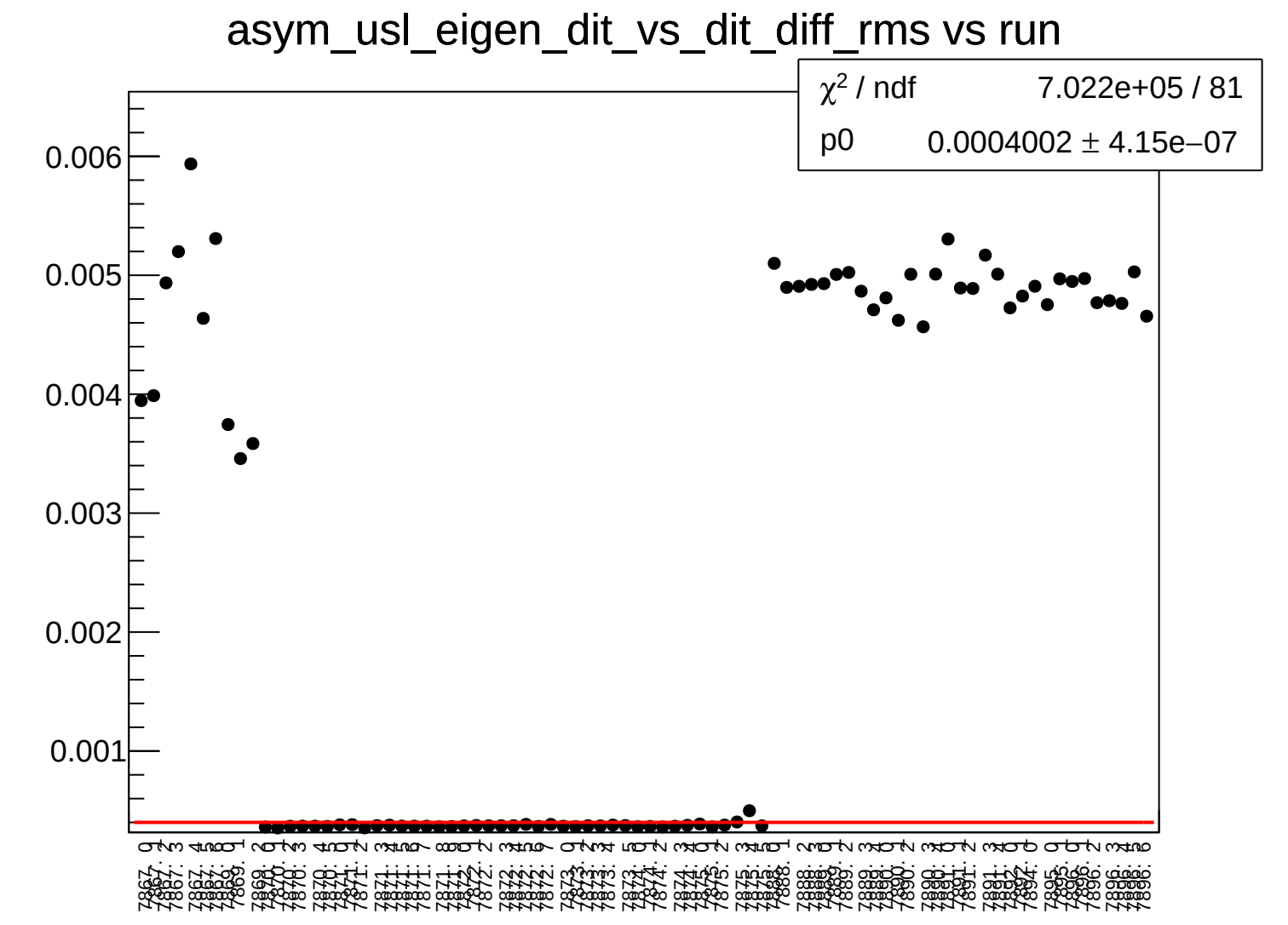

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+05 / 81
p0 67.51 ± 0.06129
500
450
400
350
300
250
200
150
100
50

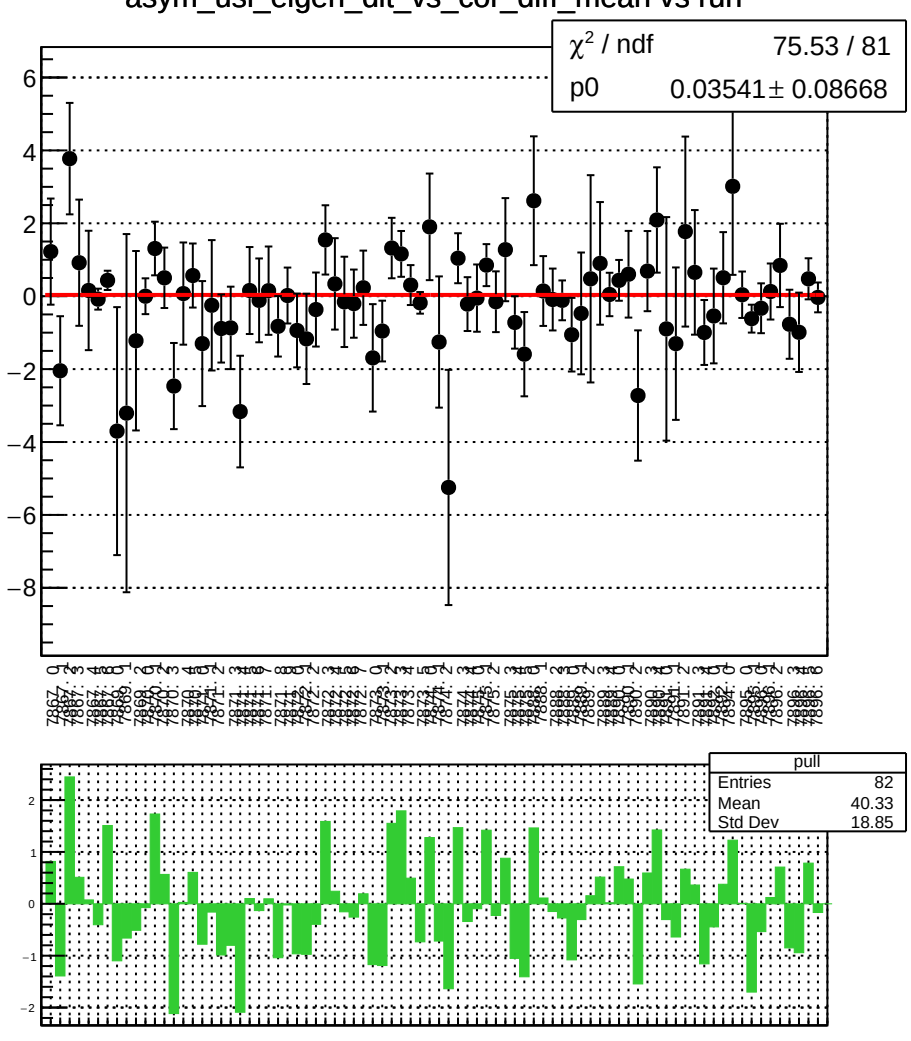

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 68.92 / 81
p0 −0.03054 ± 0.108
pull
Entries 82
Mean 137.6
Std Dev 0

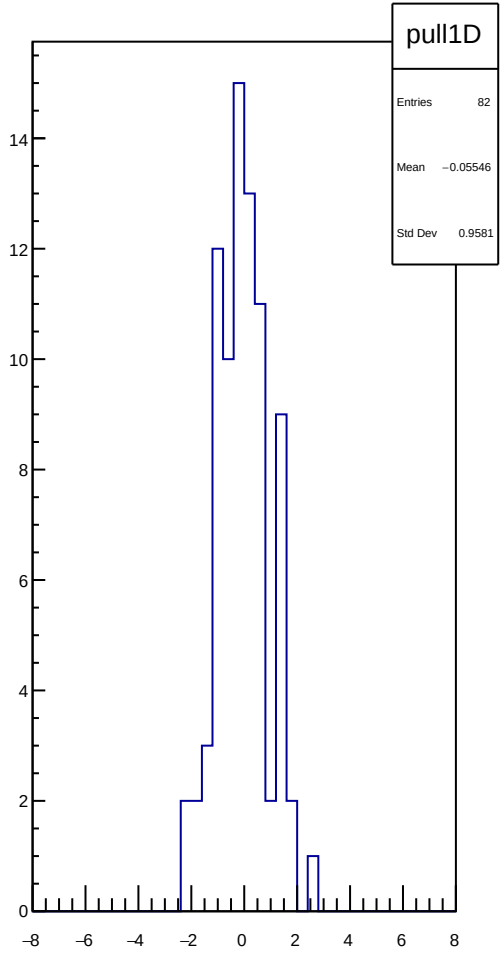

pull1D
Entries 82
Mean −0.01193
Std Dev 0.9167

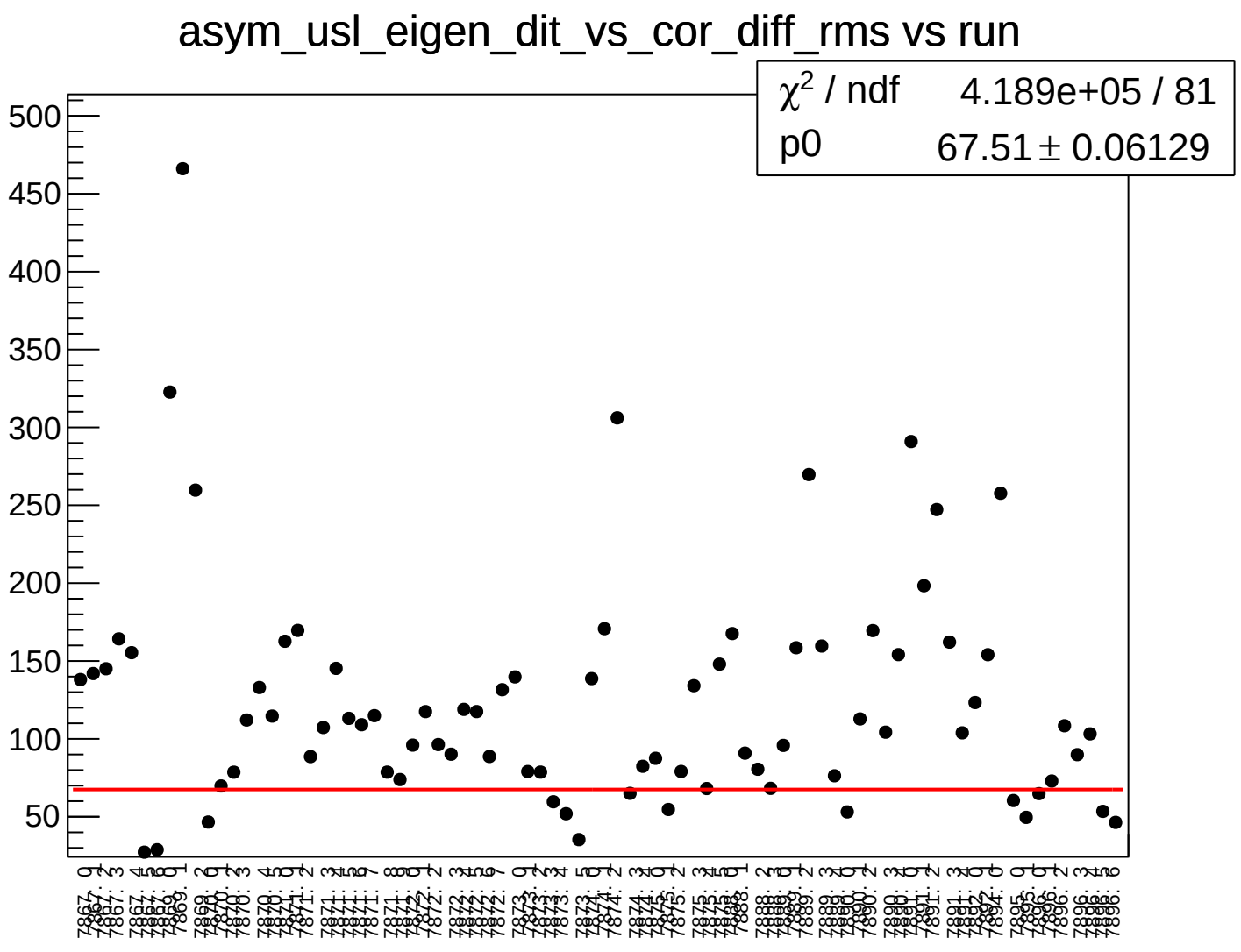

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.679e+05 / 81
p0 89.2 ± 0.07637
1600
1400
1200
1000
800
600
400
200

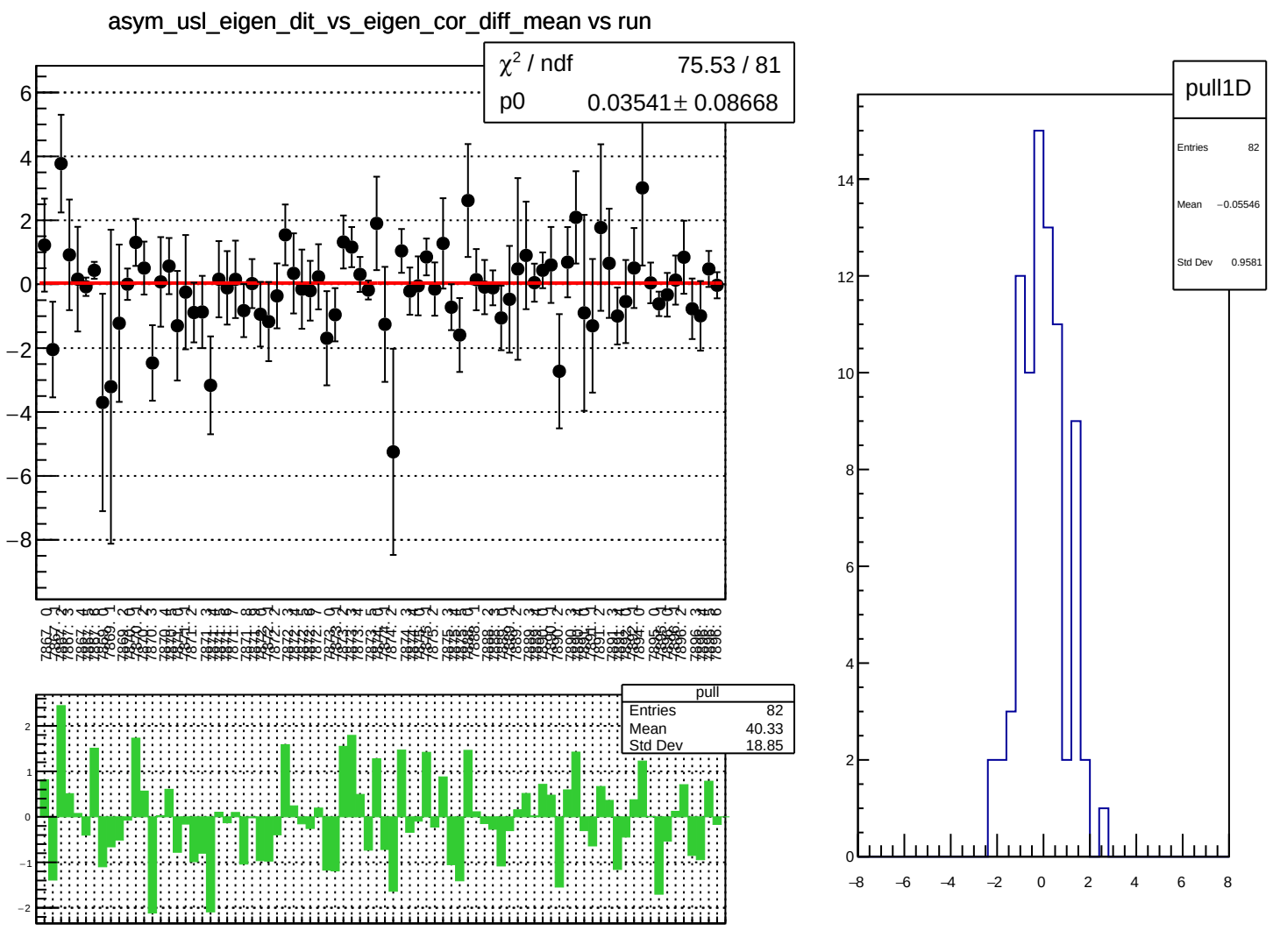

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.07 / 81
p0 −4.413e−07 ± 5.869e−07
pull
Entries 82
Mean 61.57
Std Dev 0
pull1D
Entries 82
Mean −0.01743
Std Dev 0.8838

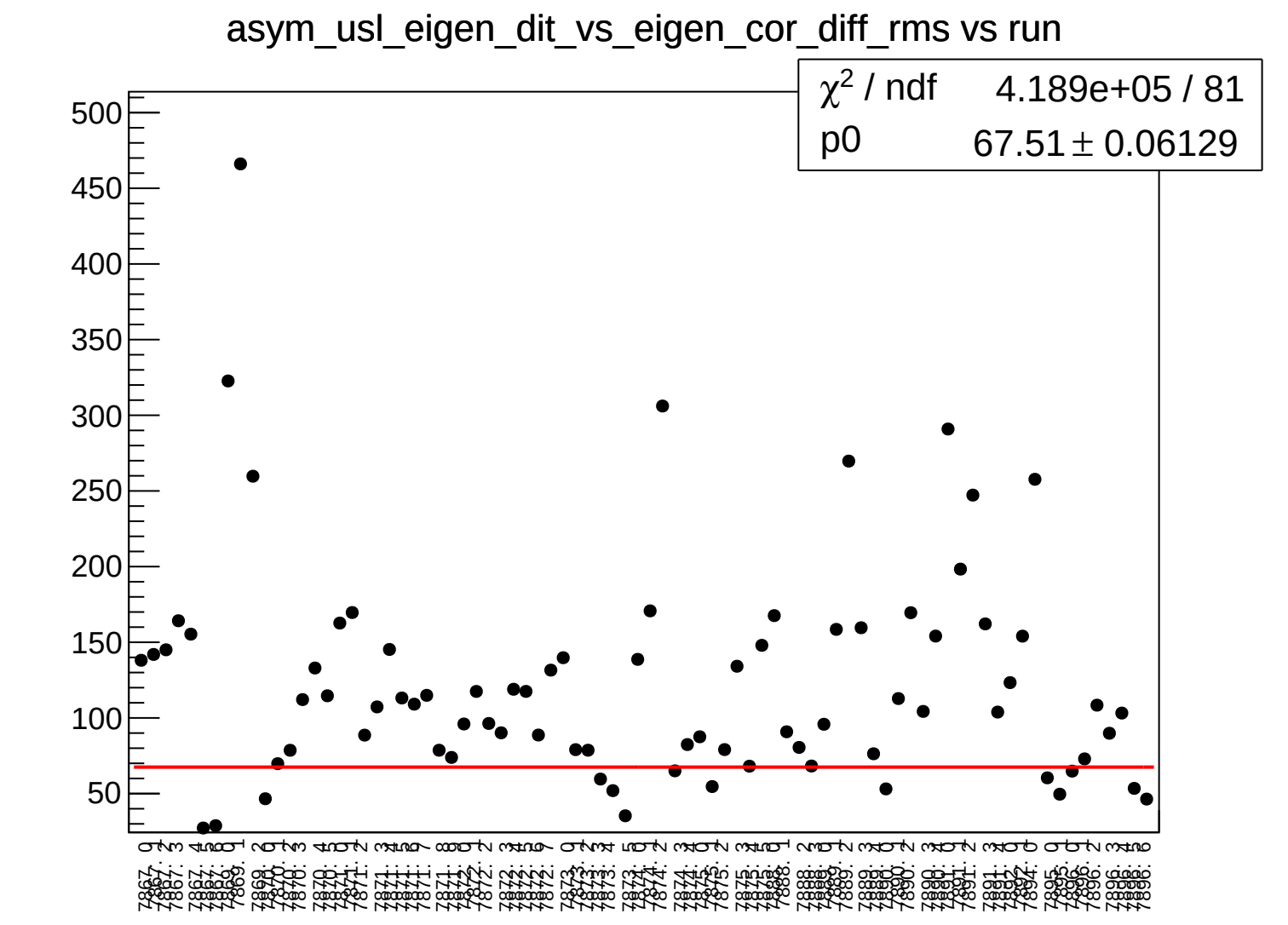

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.022e+05 / 81
p0 0.0004002 ± 4.15e−07
0.006
0.005
0.004
0.003
0.002
0.001

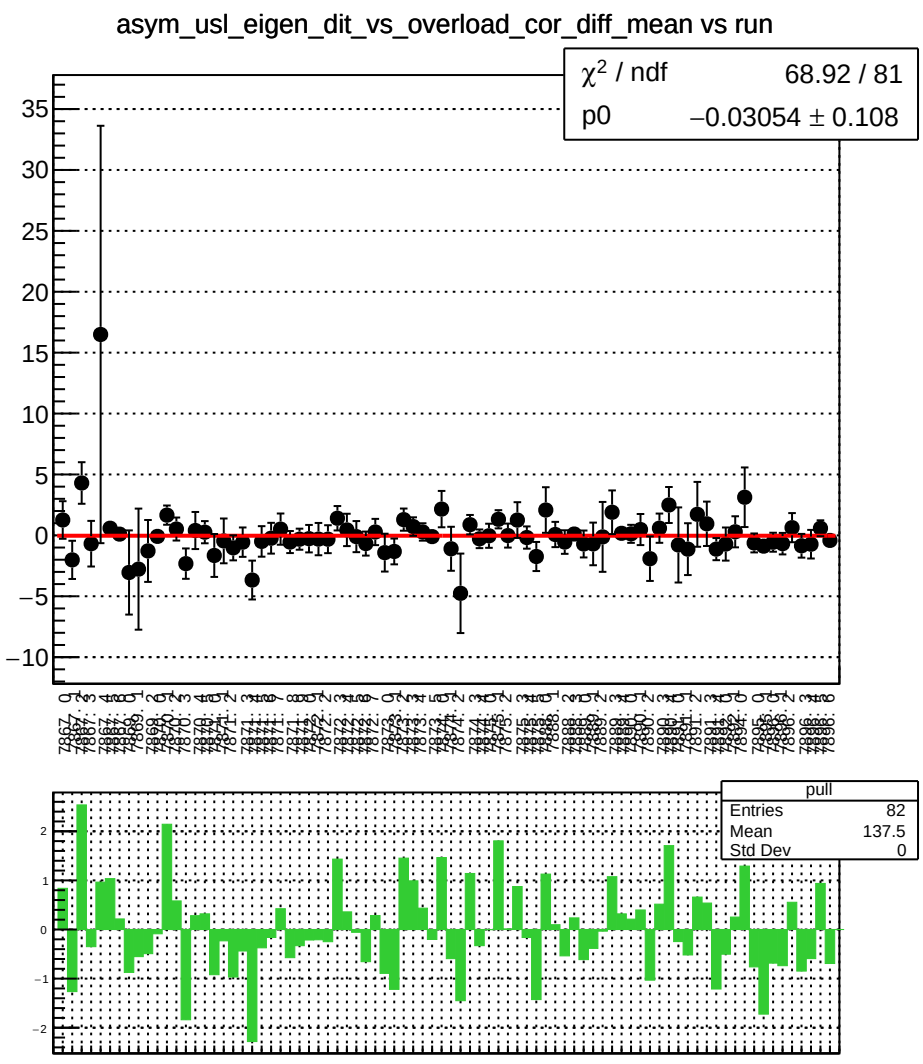

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.53 / 81
p0 0.03541 ± 0.08668
pull
Entries 82
Mean 40.33
Std Dev 18.85

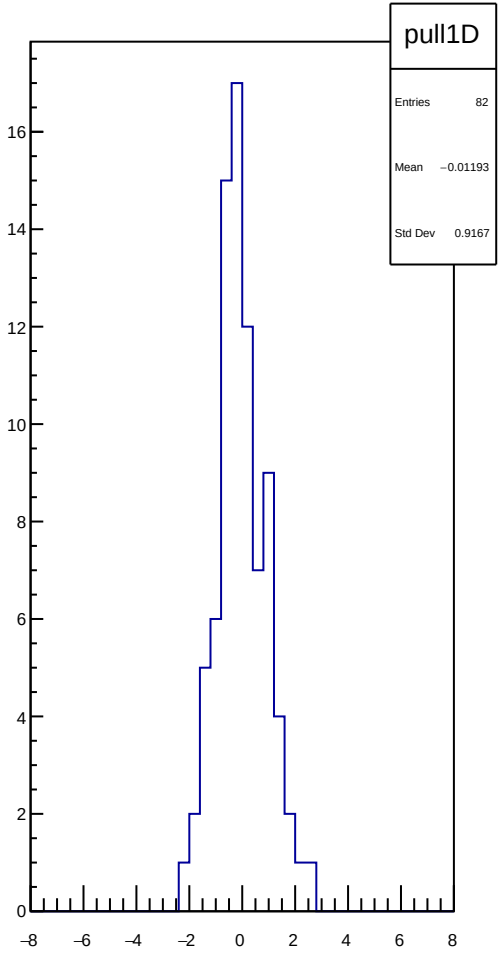

pull1D
Entries 82
Mean −0.05546
Std Dev 0.9581

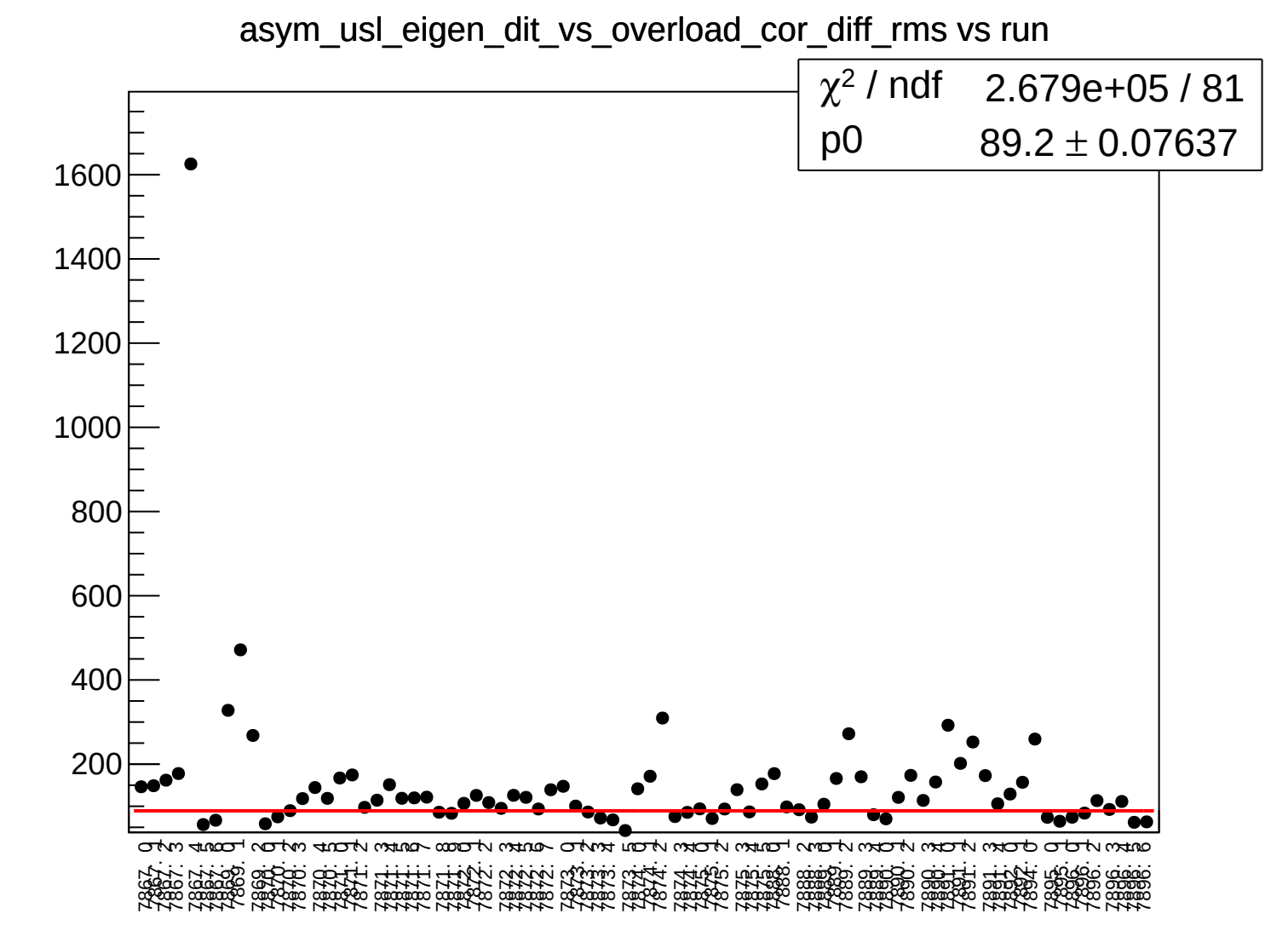

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.189e+05 / 81
p0 67.51 ± 0.06129
500
450
400
350
300
250
200
150
100
50

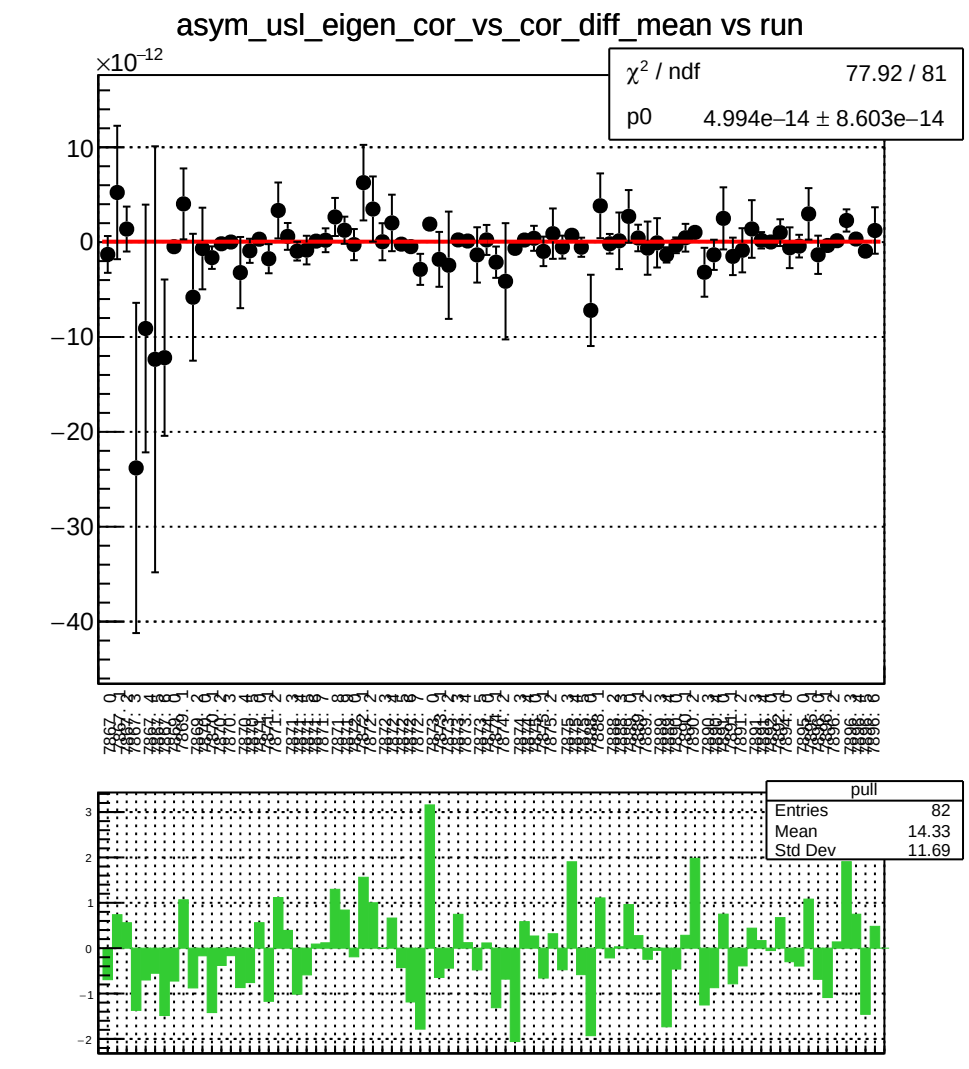

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.53 / 81
p0 0.03541 ± 0.08668
pull
Entries 82
Mean 40.33
Std Dev 18.85
pull1D
Entries 82
Mean −0.05546
Std Dev 0.9581

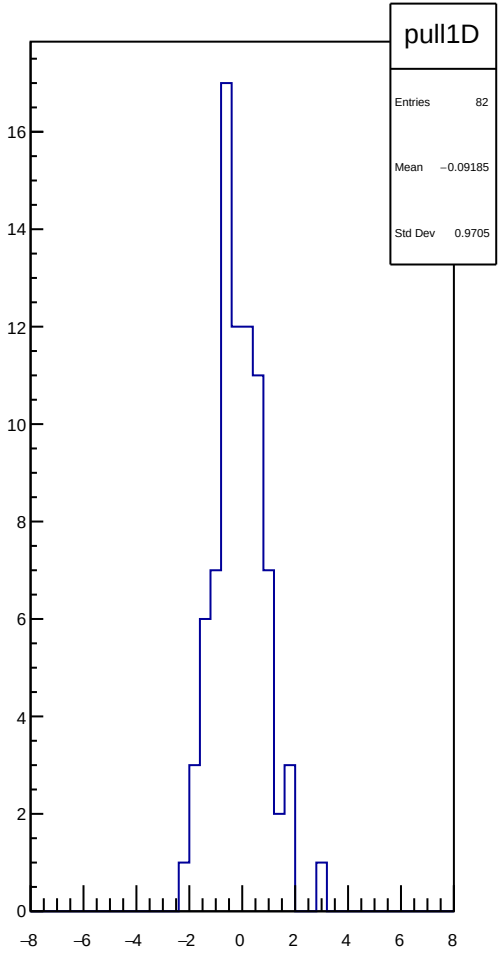

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+05 / 81
p0 67.51 ± 0.06129
500
450
400
350
300
250
200
150
100
50

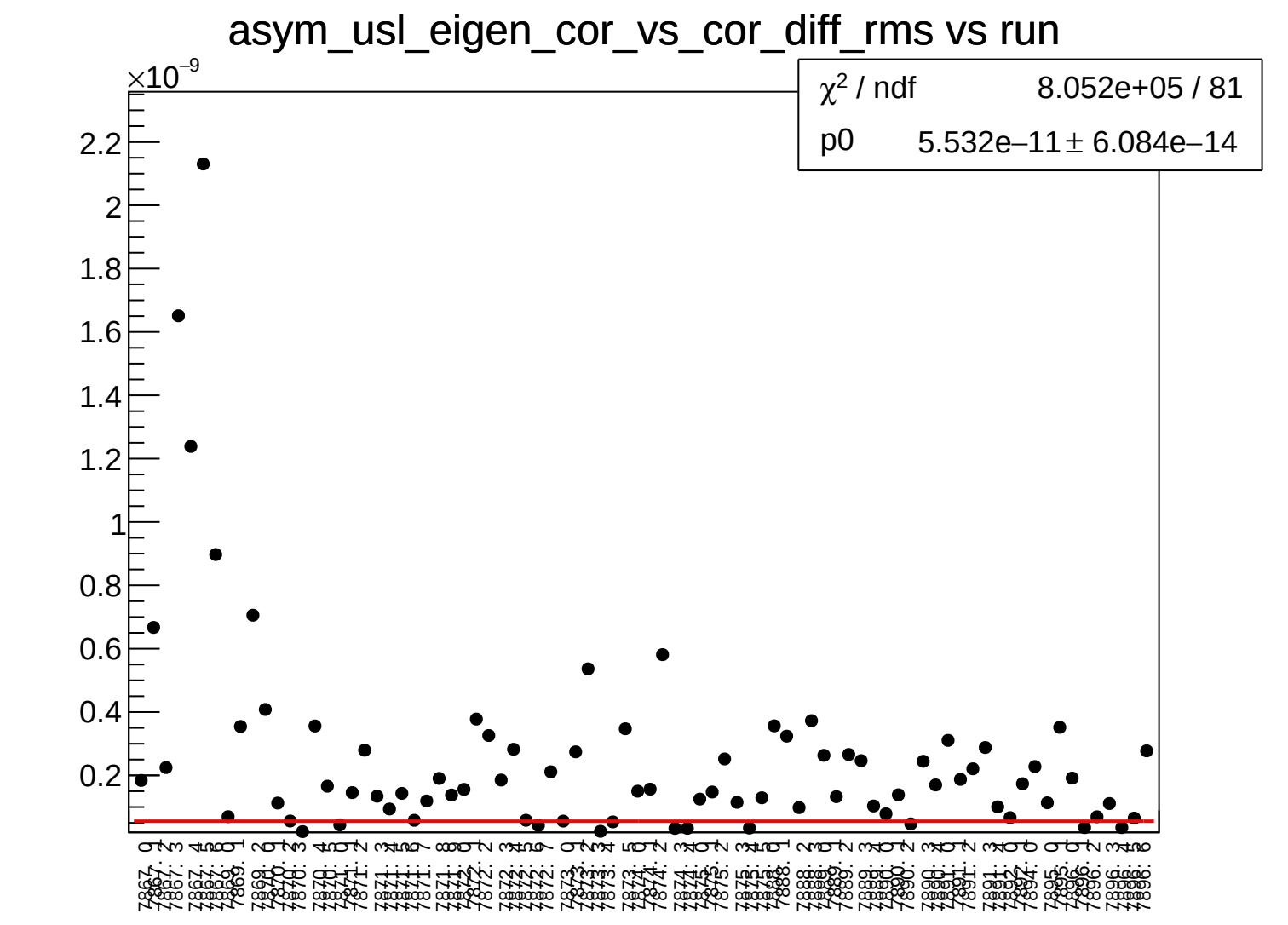

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 68.92 / 81
p0 −0.03054 ± 0.108
pull
Entries 82
Mean 137.5
Std Dev 0

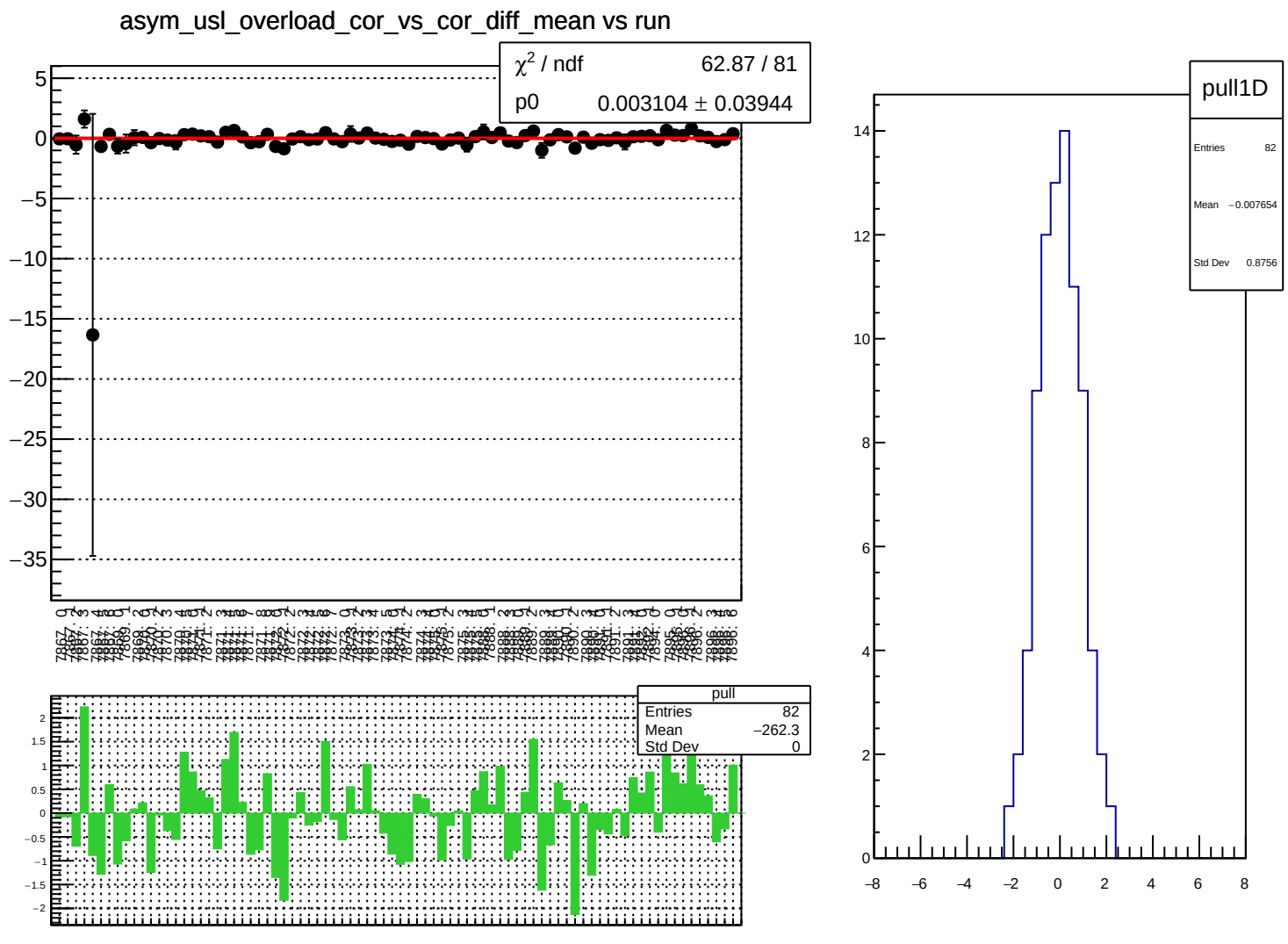

pull1D
Entries 82
Mean −0.01193
Std Dev 0.9167

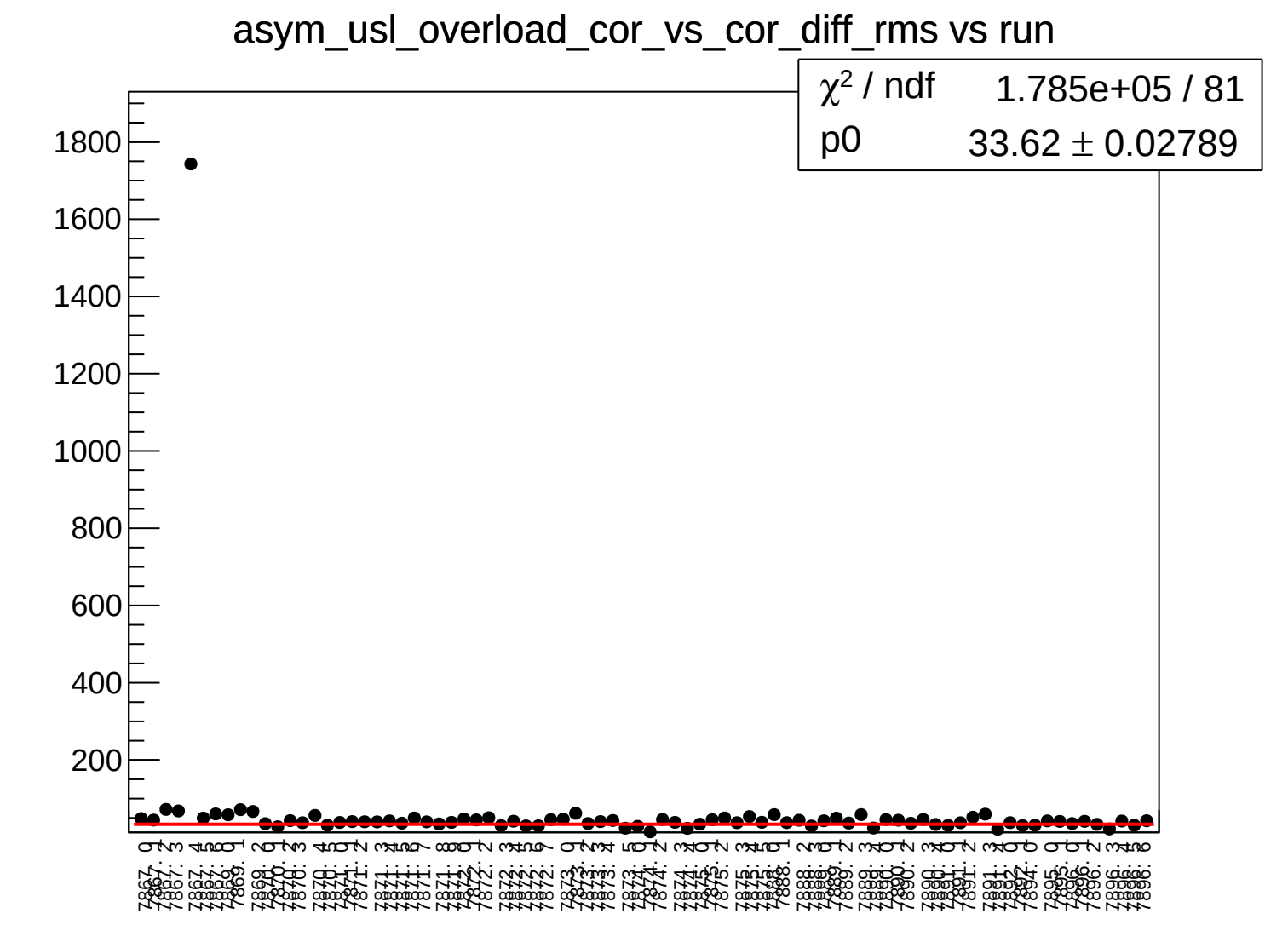

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.679e+05 / 81
p0 89.2 ± 0.07637
1600
1400
1200
1000
800
600
400
200

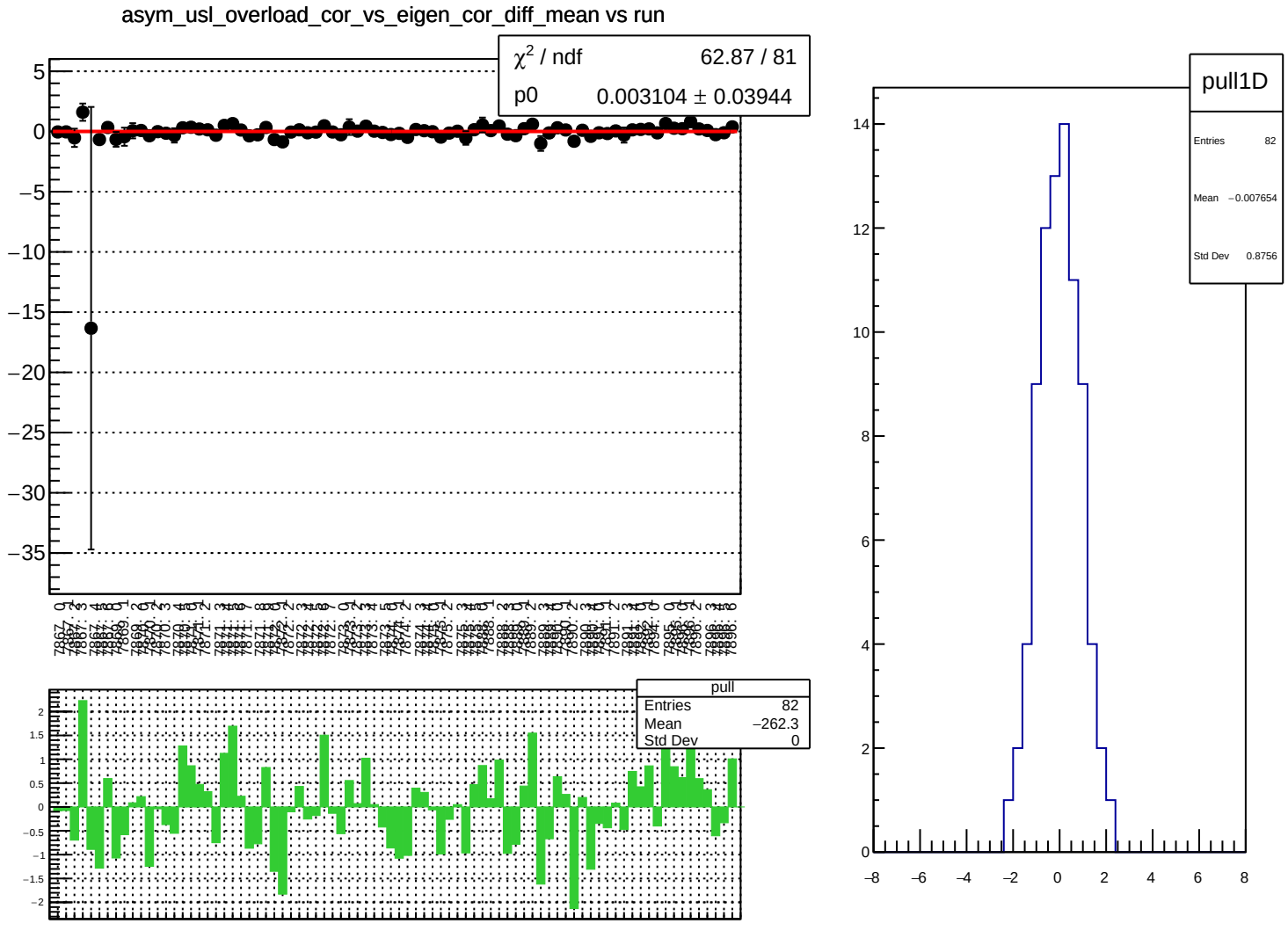

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.92 / 81
p0 4.994e−14 ± 8.603e−14
pull
Entries 82
Mean 14.33
Std Dev 11.69

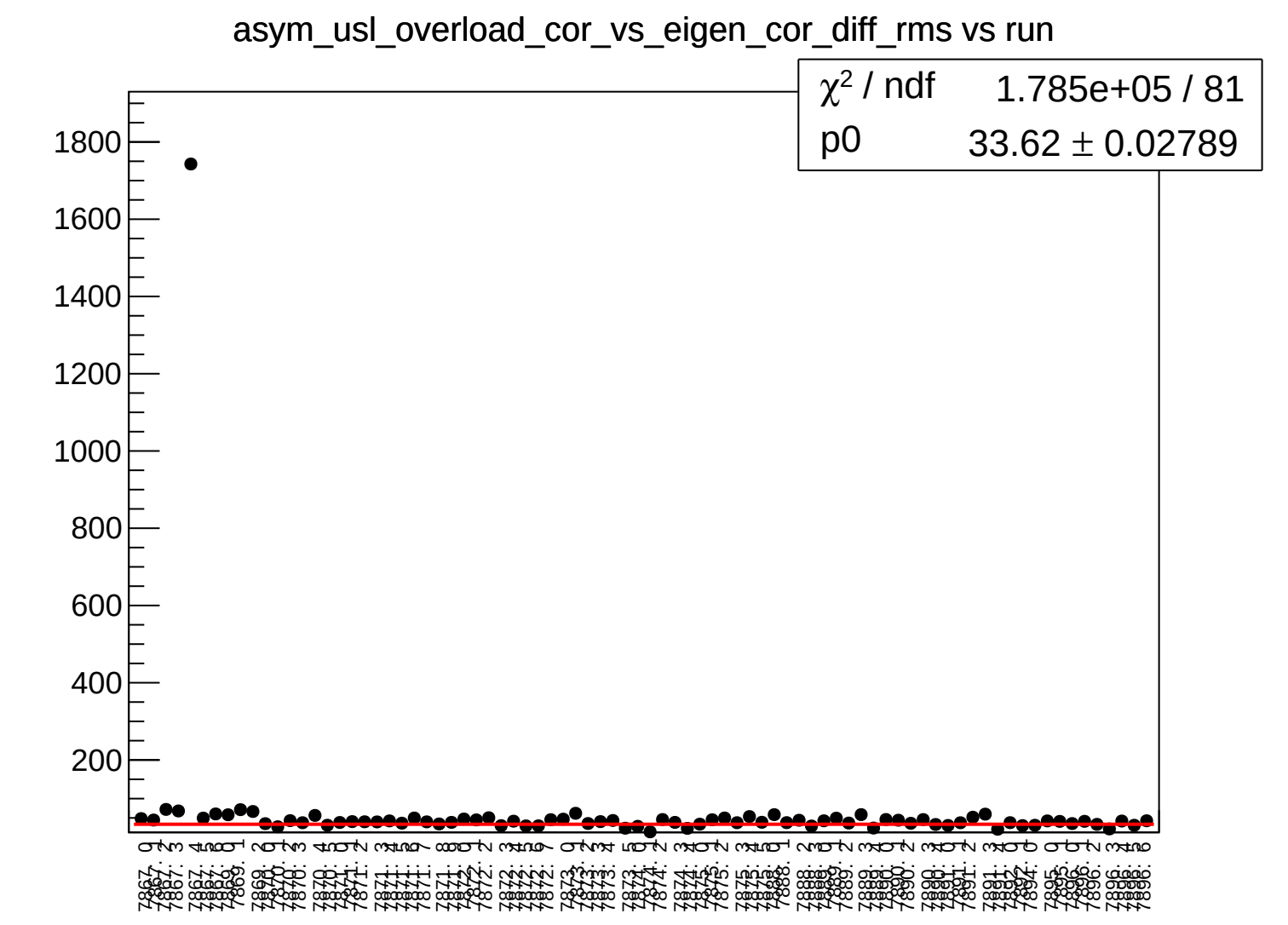

pull1D
Entries 82
Mean −0.09185
Std Dev 0.9705

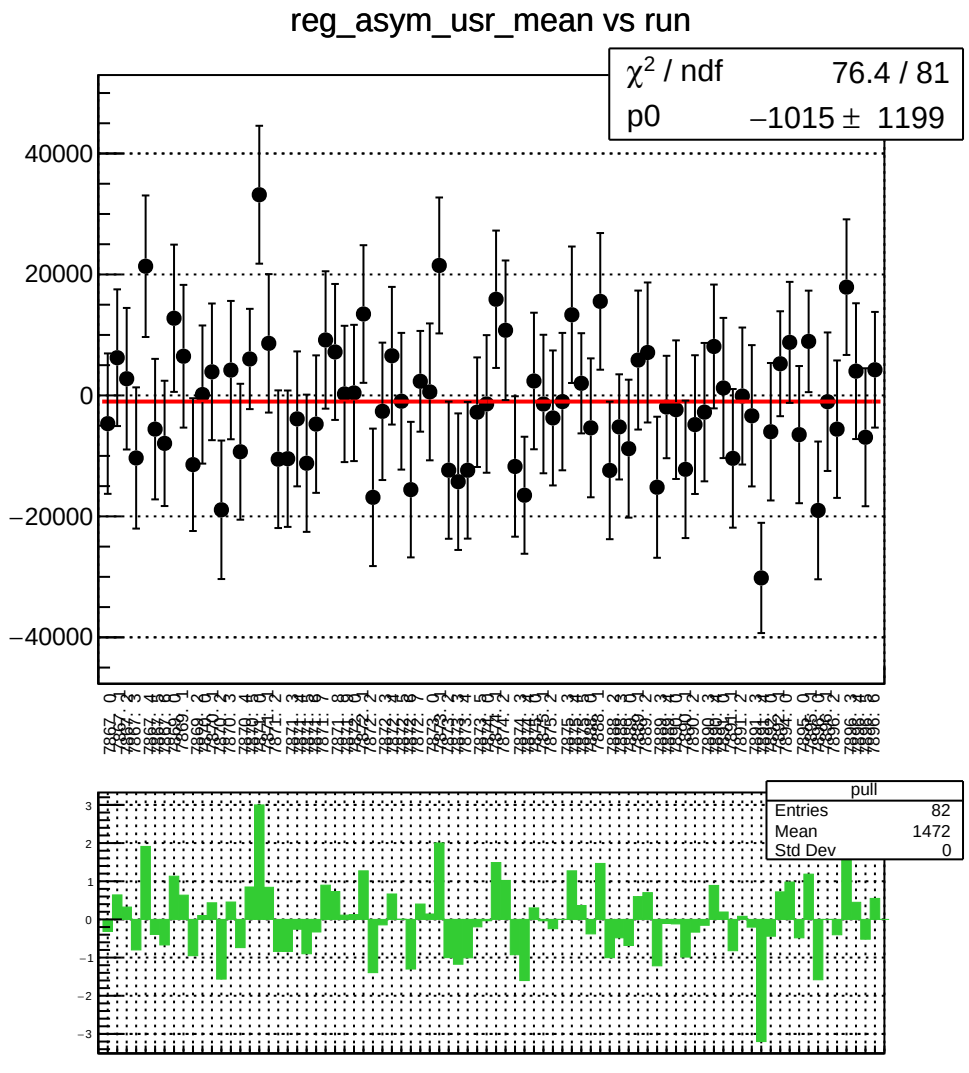

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.052e+05 / 81
p0 5.532e−11 ± 6.084e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

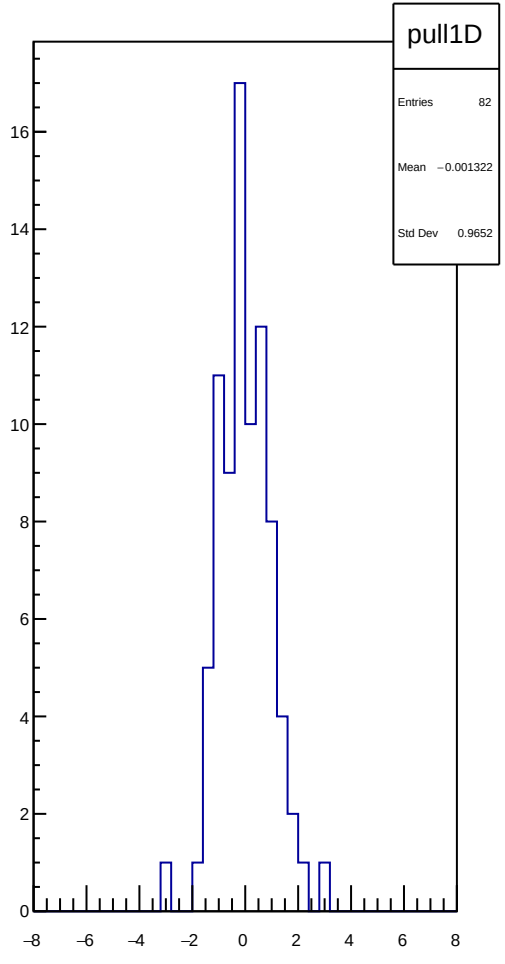

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 62.87 / 81
p0 0.003104 ± 0.03944
pull
Entries 82
Mean −262.3
Std Dev 0
pull1D
Entries 82
Mean −0.007654
Std Dev 0.8756

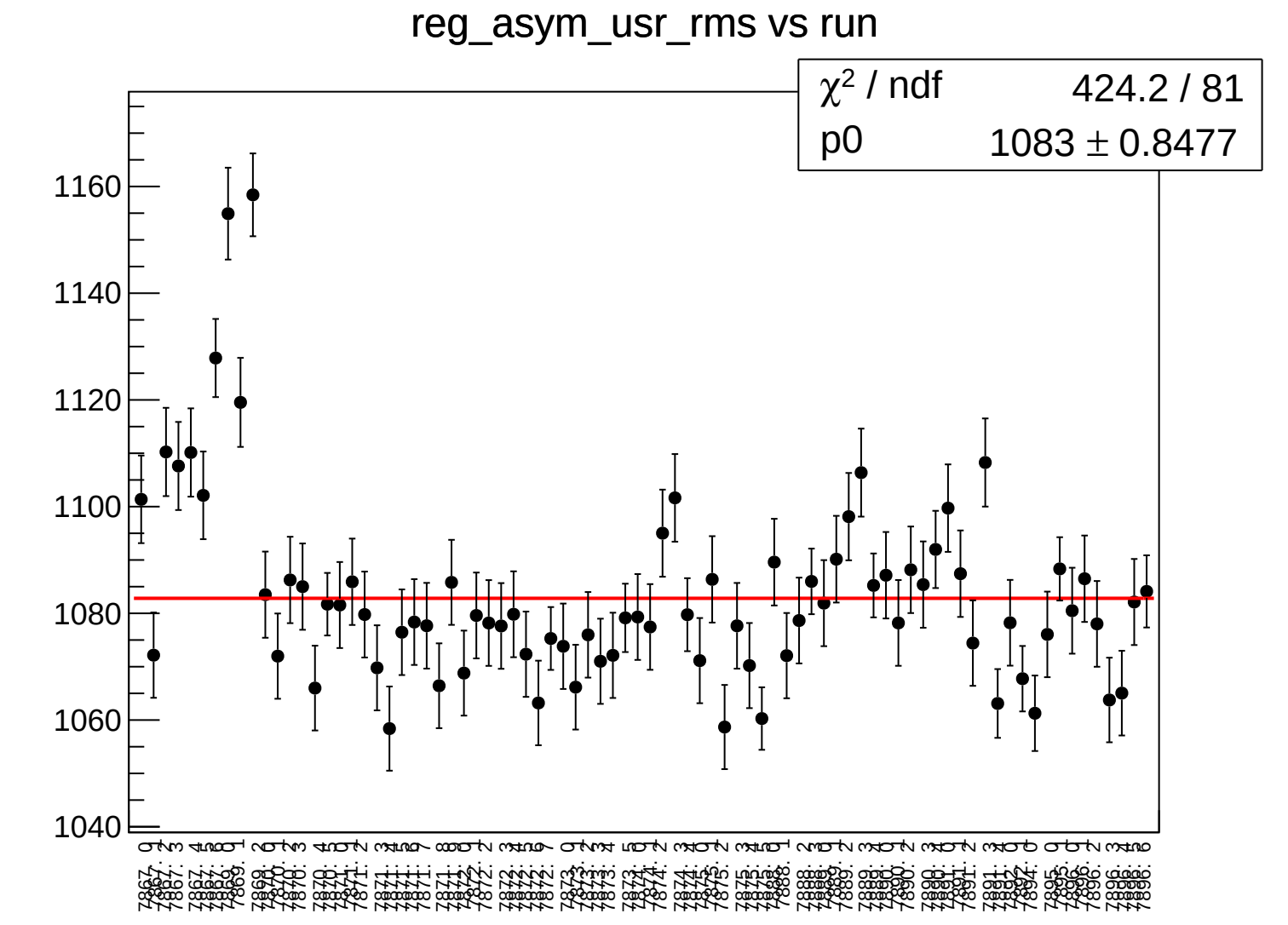

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.785e+05 / 81
p0 33.62 ± 0.02789
1800
1600
1400
1200
1000
800
600
400
200

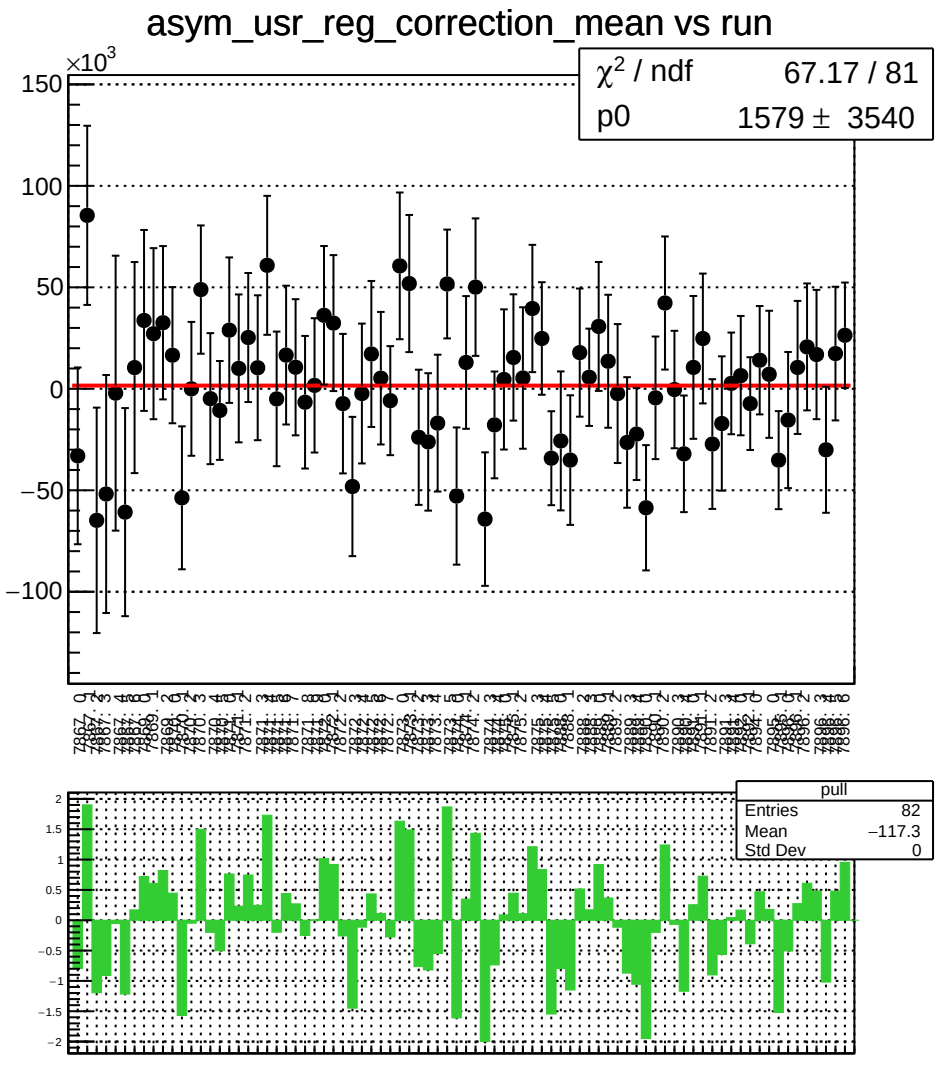

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.87 / 81
p0 0.003104 ± 0.03944
pull
Entries 82
Mean −262.3
Std Dev 0
pull1D
Entries 82
Mean −0.007654
Std Dev 0.8756

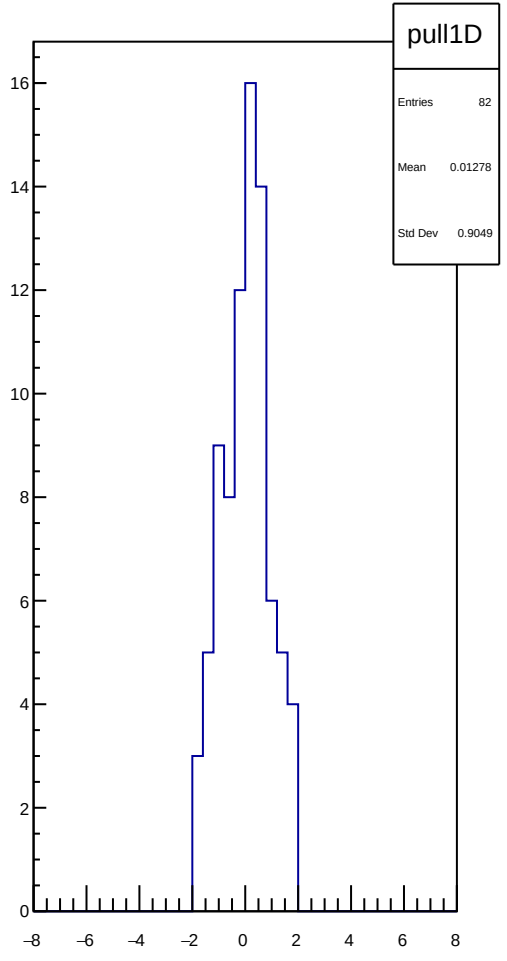

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.785e+05 / 81
p0 33.62 ± 0.02789
1800
1600
1400
1200
1000
800
600
400
200

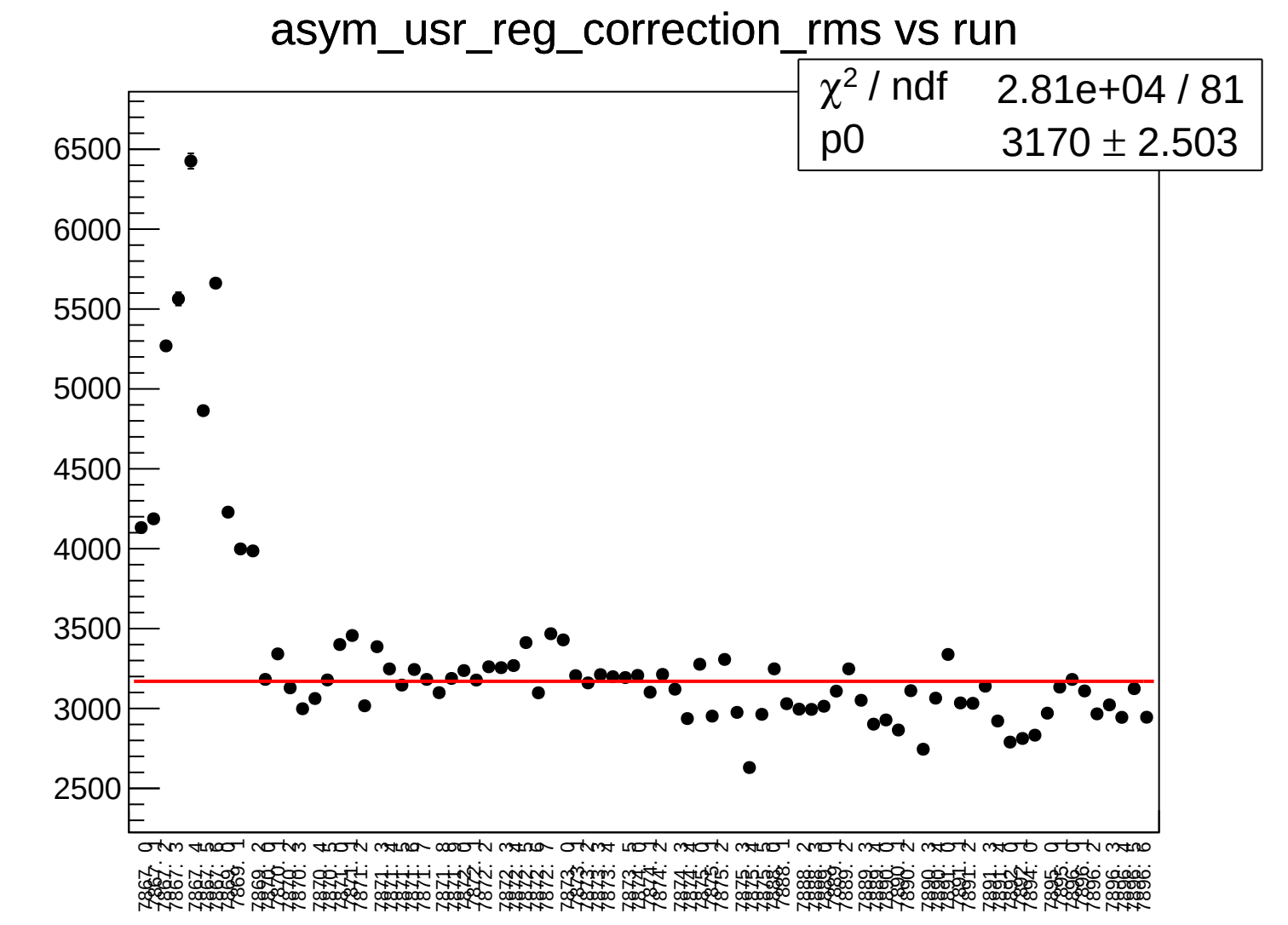

reg_asym_usr_mean vs run
χ² / ndf 76.4 / 81
p0 −1015 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1472
Std Dev 0
3
2
1
0
−1
−2
−3

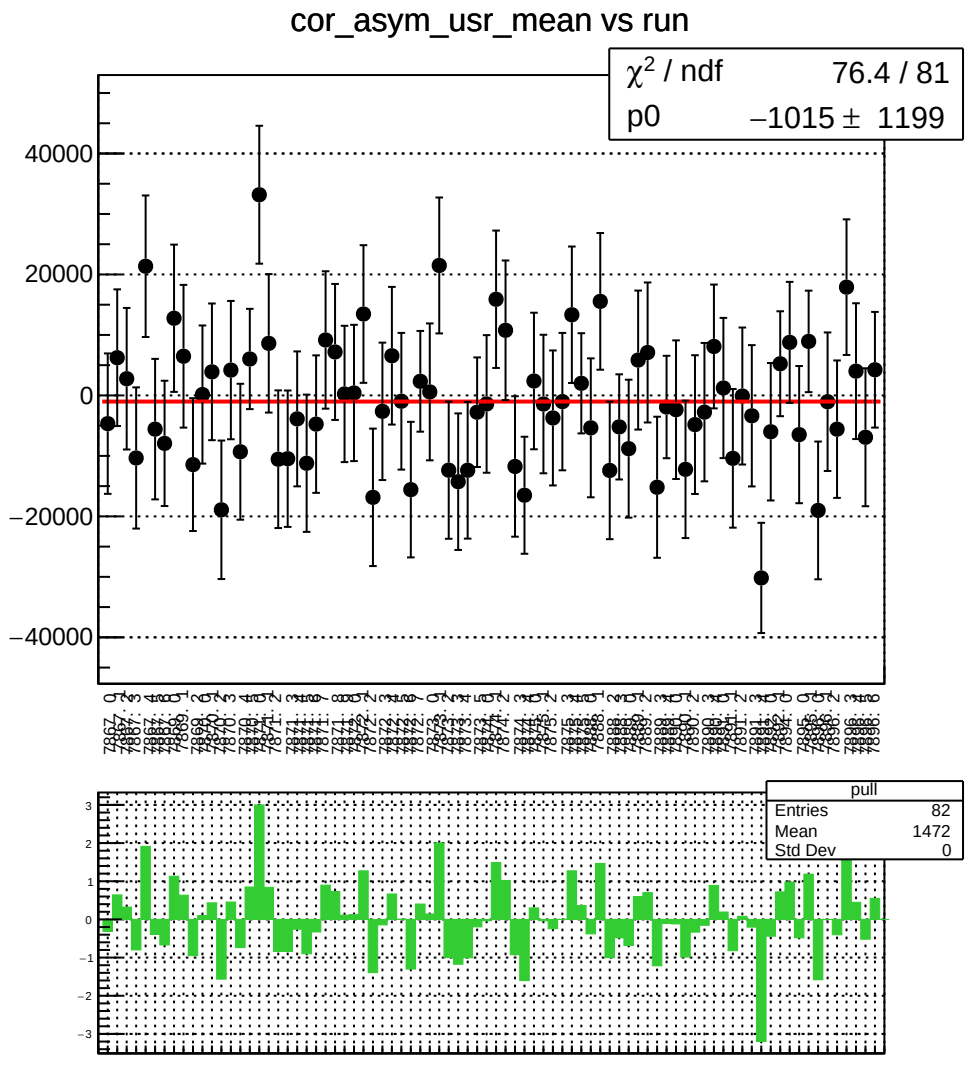

pull1D
Entries 82
Mean −0.001322
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

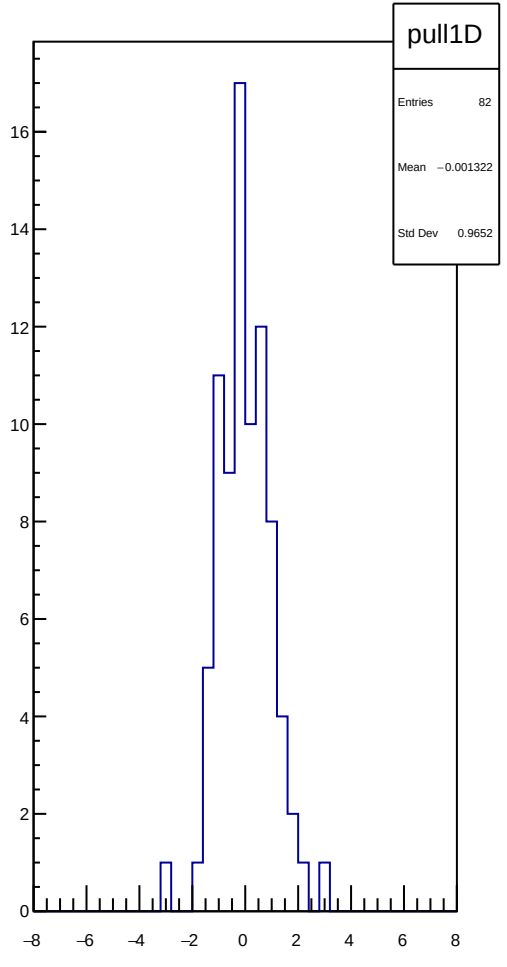

reg_asym_usr_rms vs run
χ^2 / ndf 424.2 / 81
p0 1083 ± 0.8477
1160
1140
1120
1100
1080
1060
1040


asym_usr_reg_correction_mean vs run
χ² / ndf 67.17 / 81
p0 1579 ± 3540
×10³
150
100
50
0
−50
−100
pull
Entries 82
Mean −117.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.01278
Std Dev 0.9049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_reg_correction_rms vs run
χ^2 / ndf 2.81e+04 / 81
p0 3170 ± 2.503
6500
6000
5500
5000
4500
4000
3500
3000
2500


cor_asym_usr_mean vs run
χ² / ndf 76.4 / 81
p0 −1015 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1472
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.001322
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
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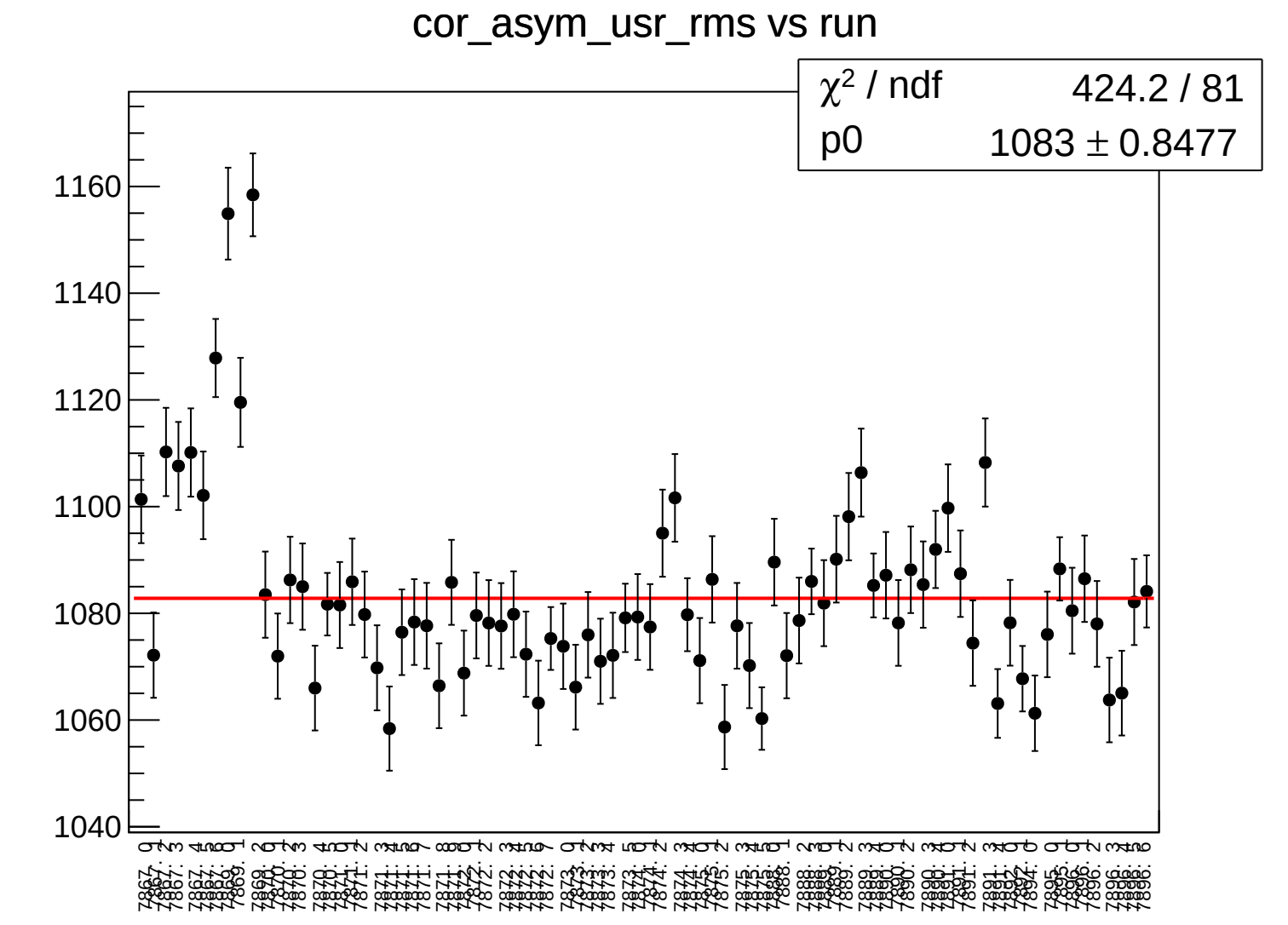
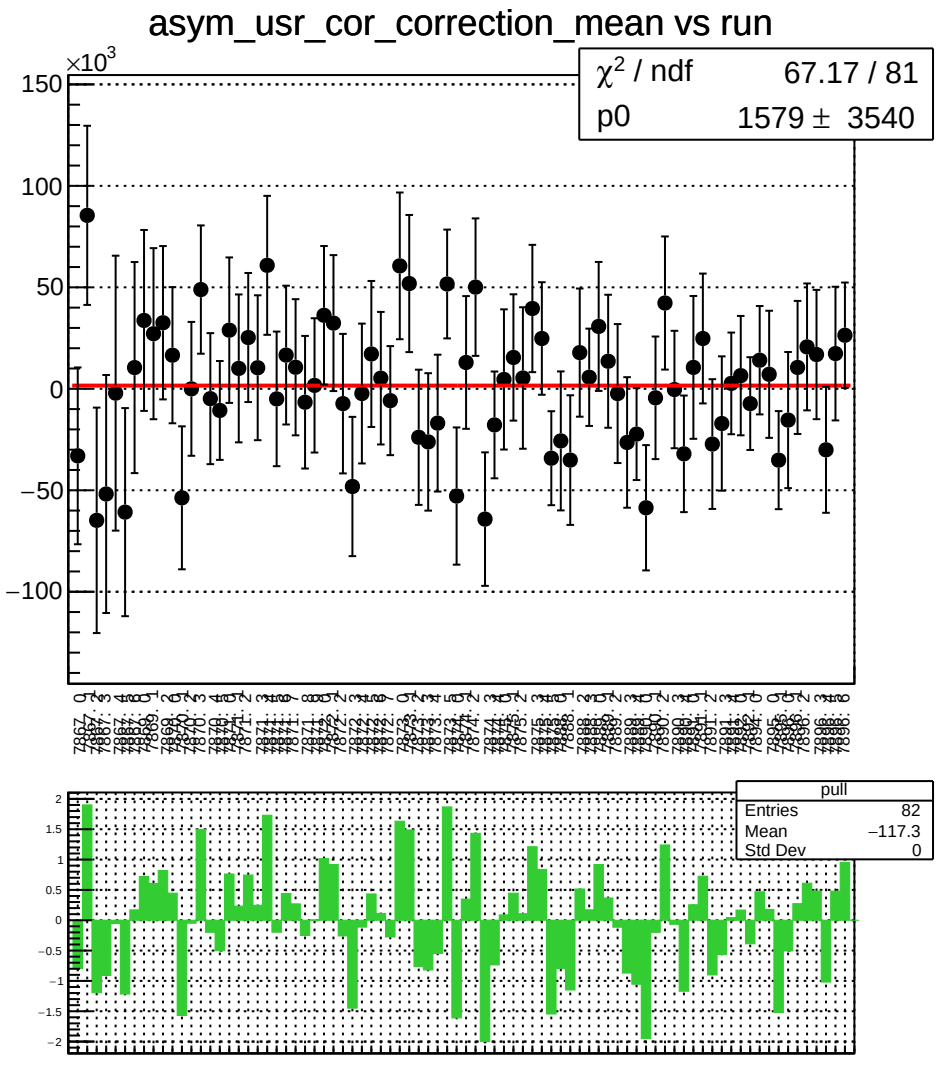
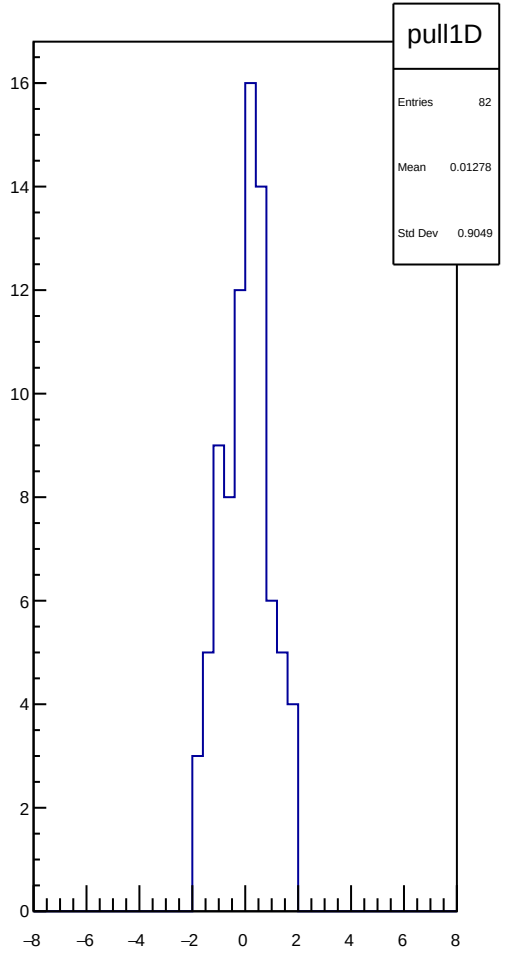
2
4
6
8


cor_asym_usr_rms vs run
χ^2 / ndf 424.2 / 81
p0 1083 ± 0.8477
1160
1140
1120
1100
1080
1060
1040


asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 67.17 / 81
p0 1579 ± 3540
150
100
50
0
−50
−100
pull
Entries 82
Mean −117.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.01278
Std Dev 0.9049
16
14
12
10
8
6
4
2
0
−8
−6
−4
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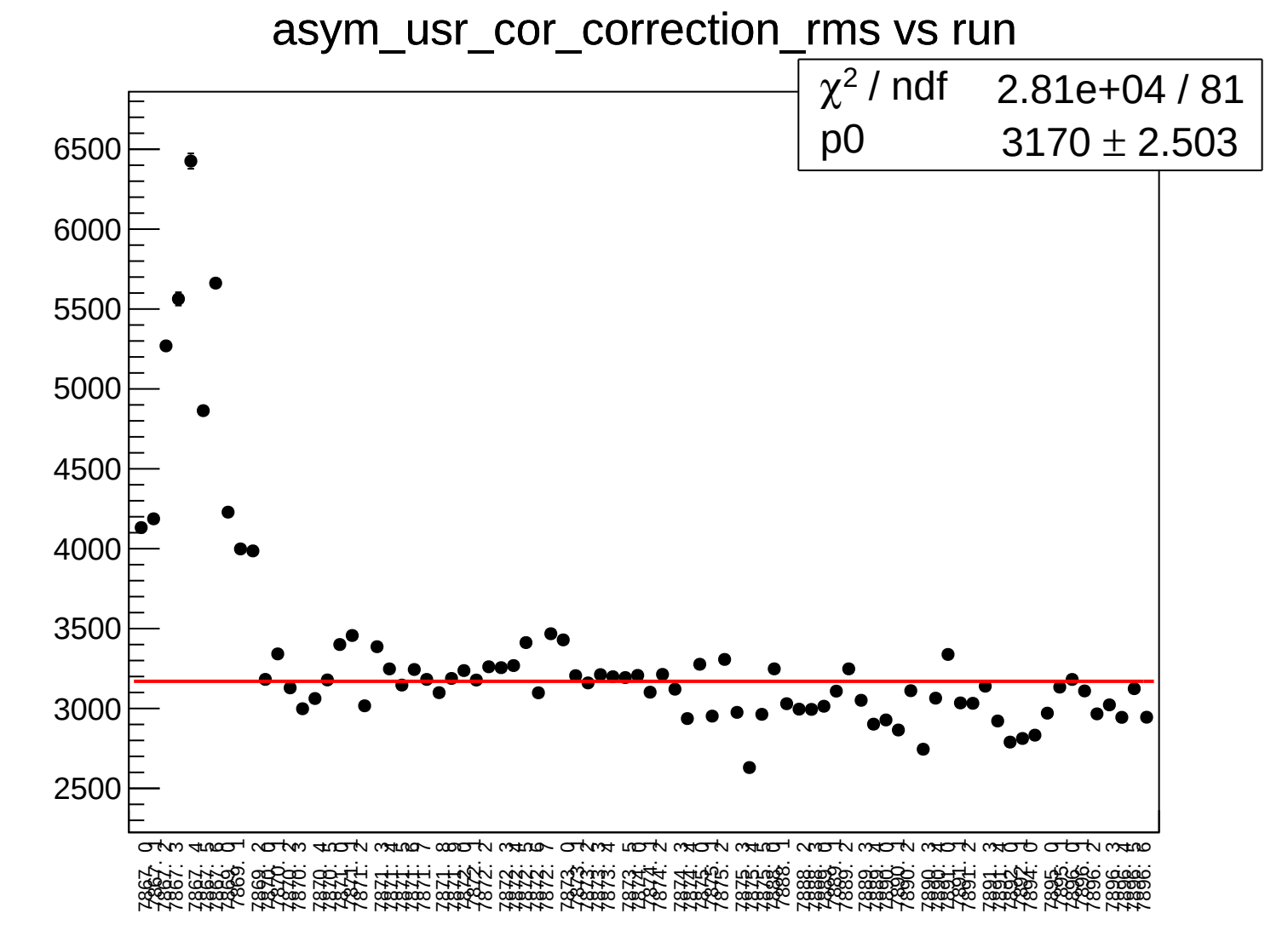
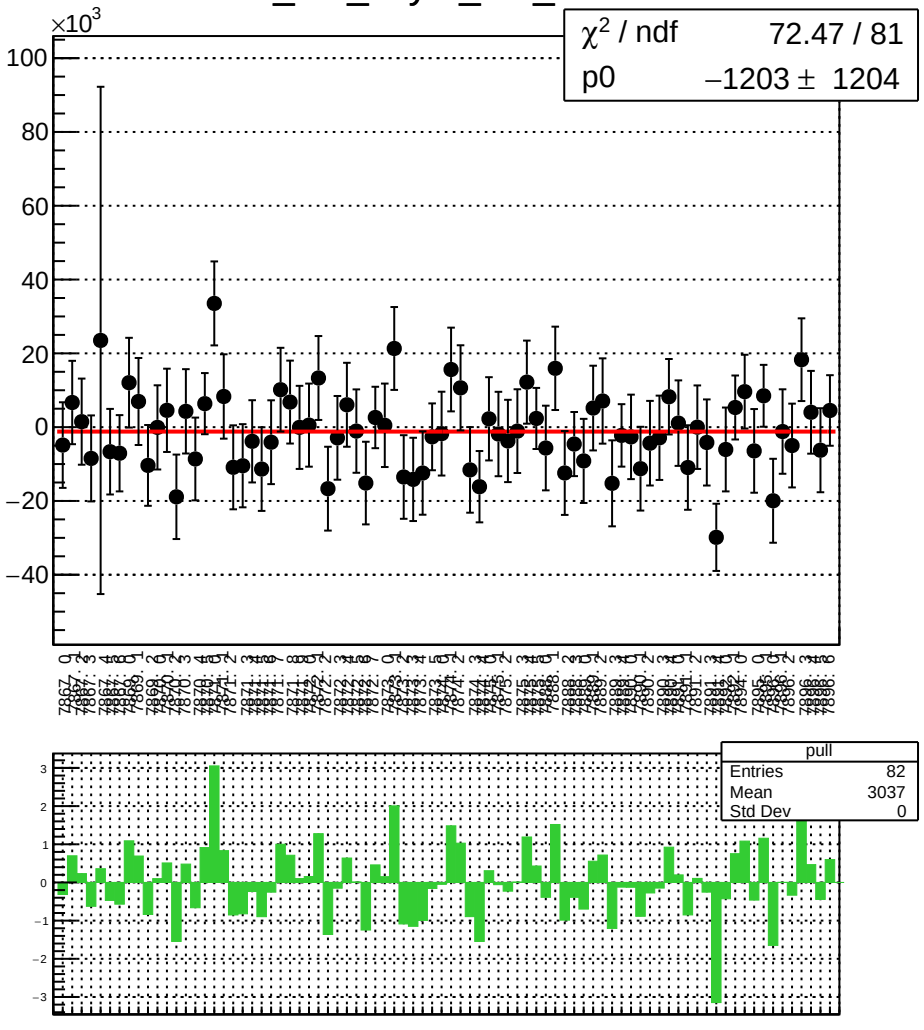
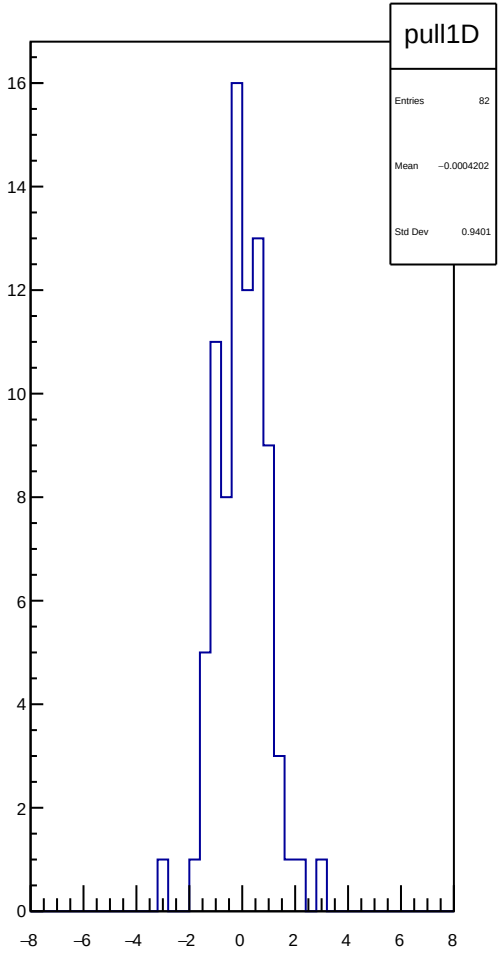
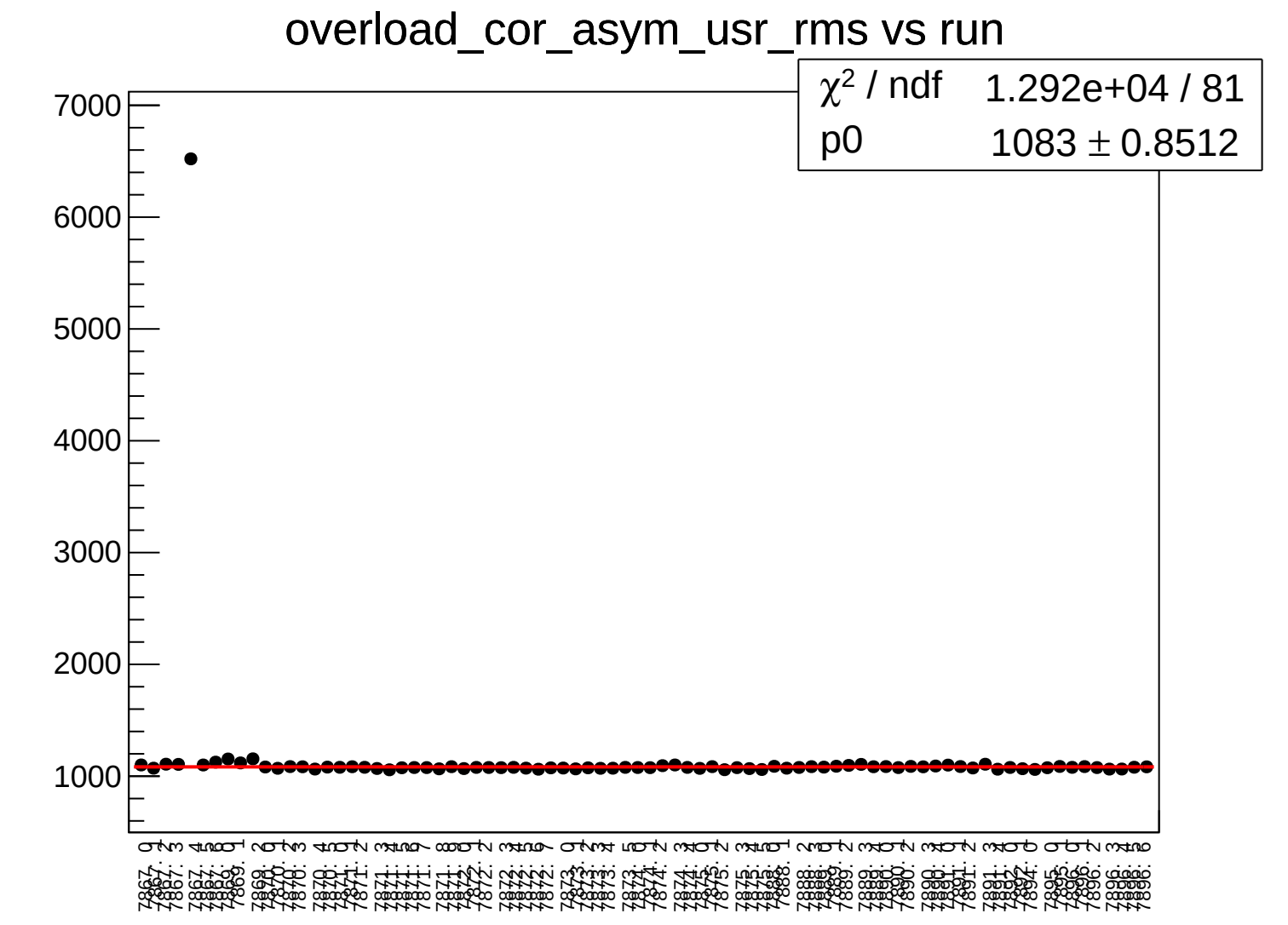
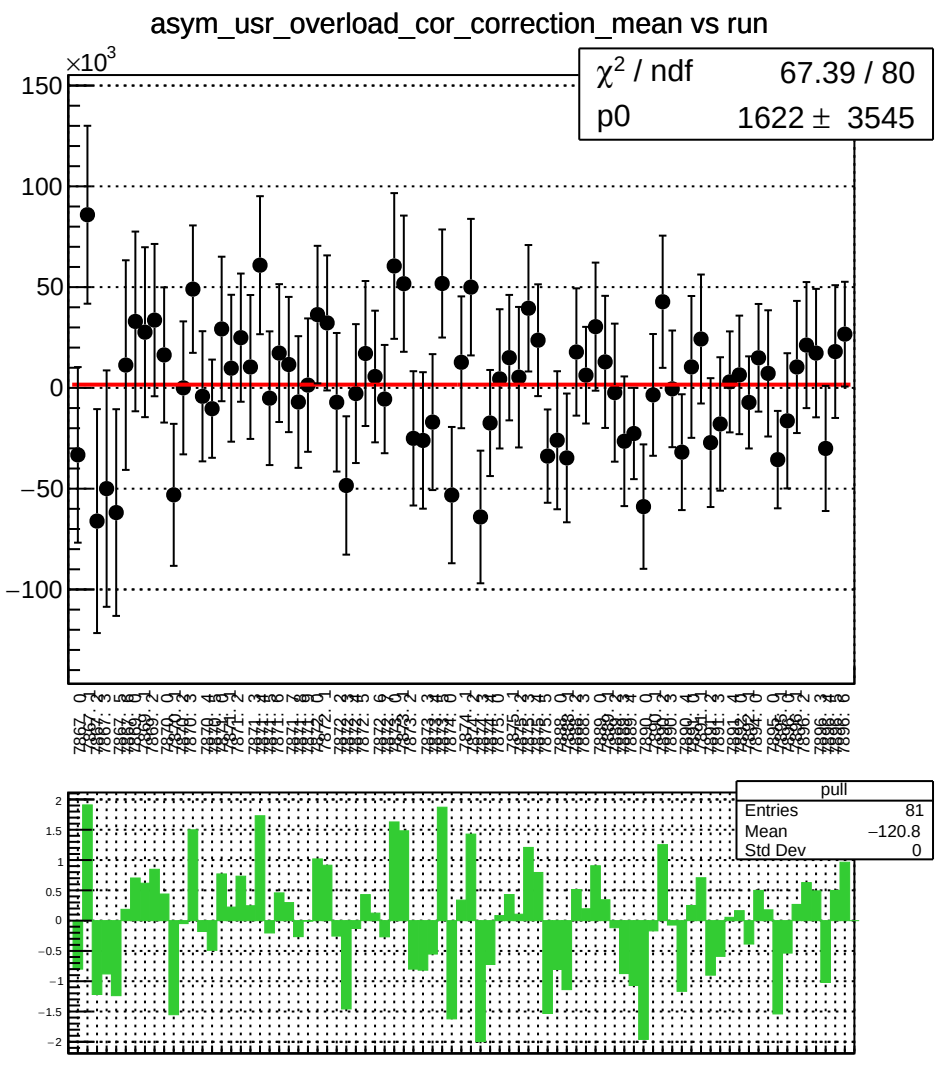
0
2
4
6
8

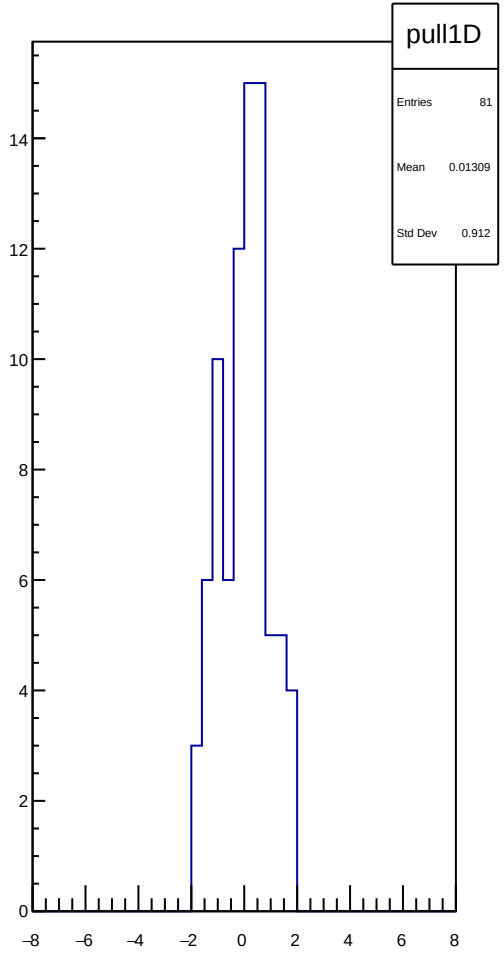

asym_usr_cor_correction_rms vs run
χ^2 / ndf 2.81e+04 / 81
p0 3170 ± 2.503
6500
6000
5500
5000
4500
4000
3500
3000
2500

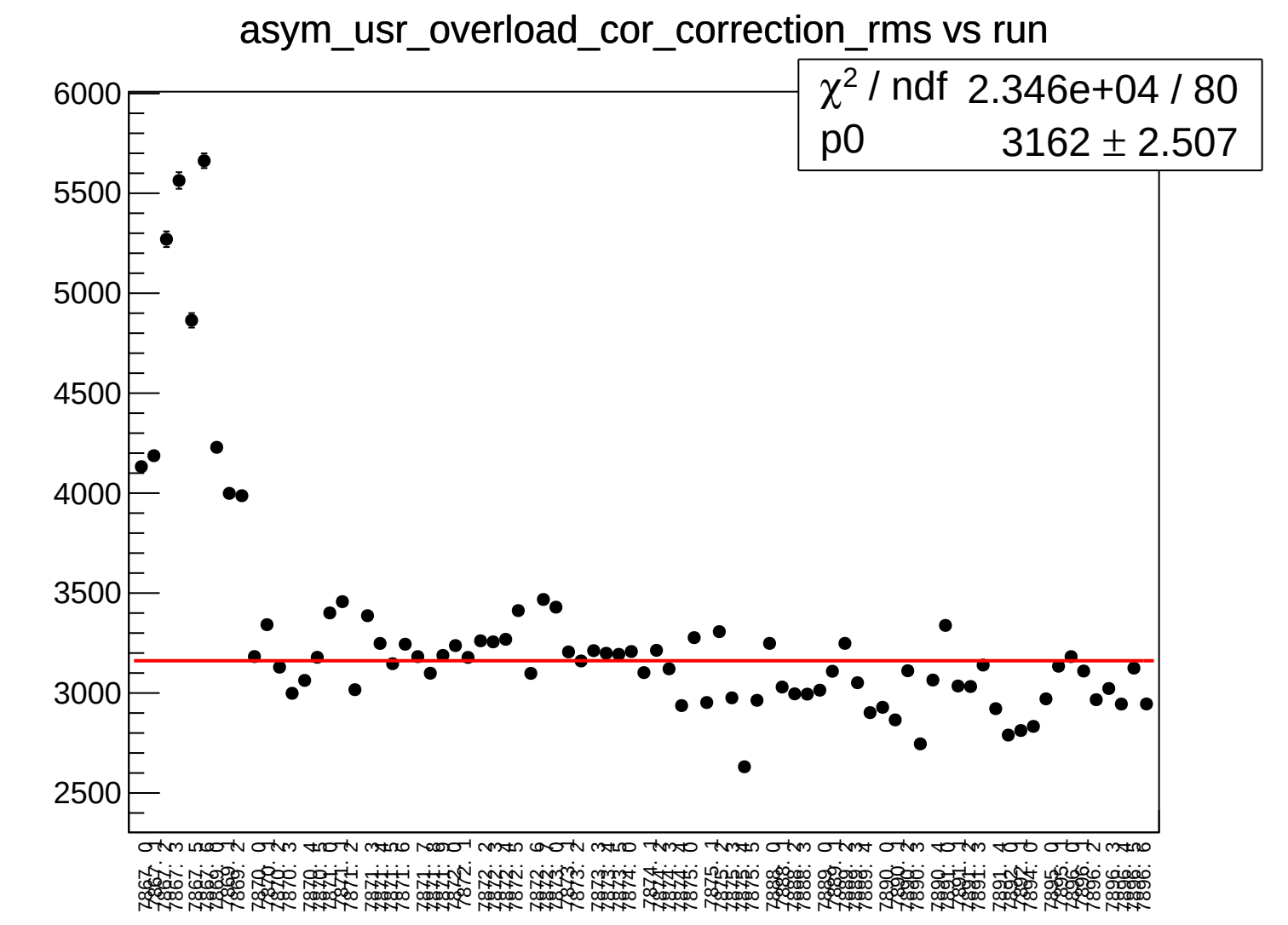

overload_cor_asym_usr_mean vs run
×10^3
χ² / ndf 72.47 / 81
p0 −1203 ± 1204
pull
Entries 82
Mean 3037
Std Dev 0

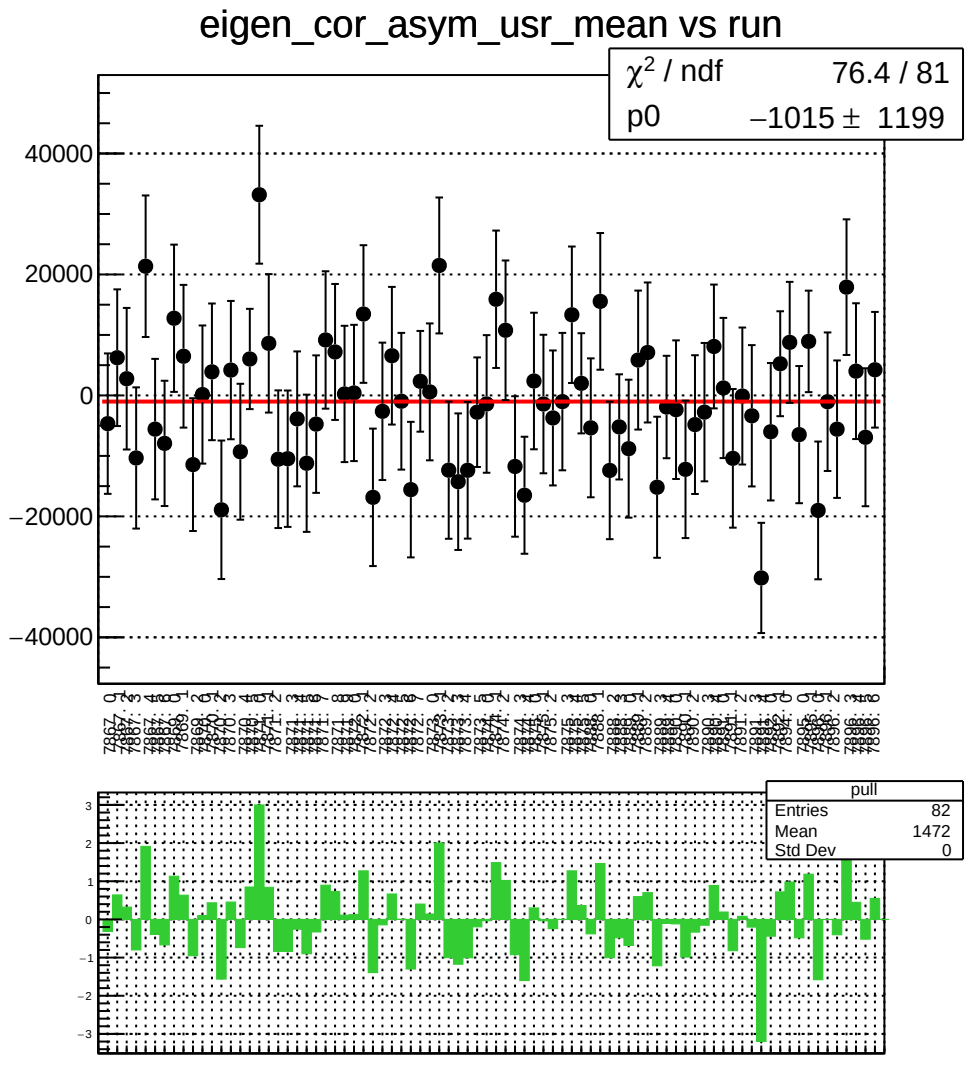

pull1D
Entries 82
Mean −0.0004202
Std Dev 0.9401

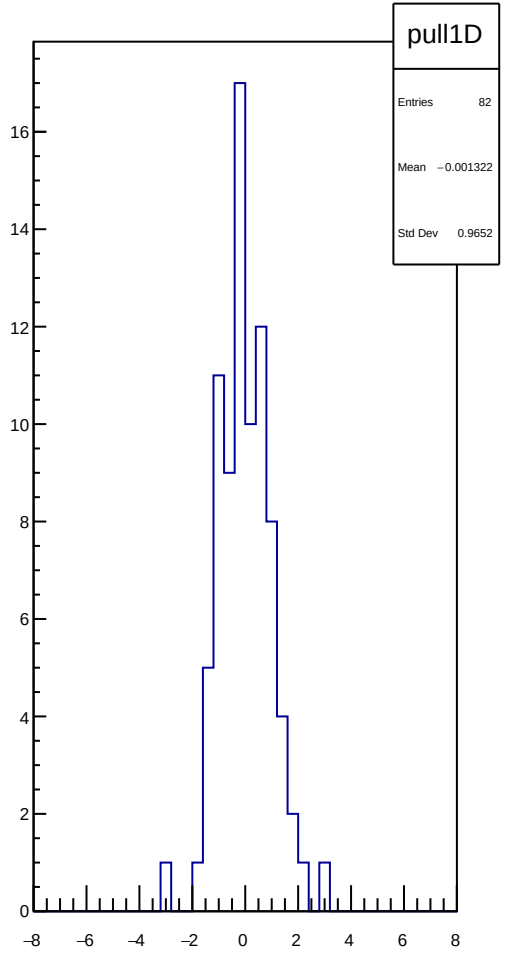

overload_cor_asym_usr_rms vs run
χ² / ndf 1.292e+04 / 81
p0 1083 ± 0.8512
7000
6000
5000
4000
3000
2000
1000

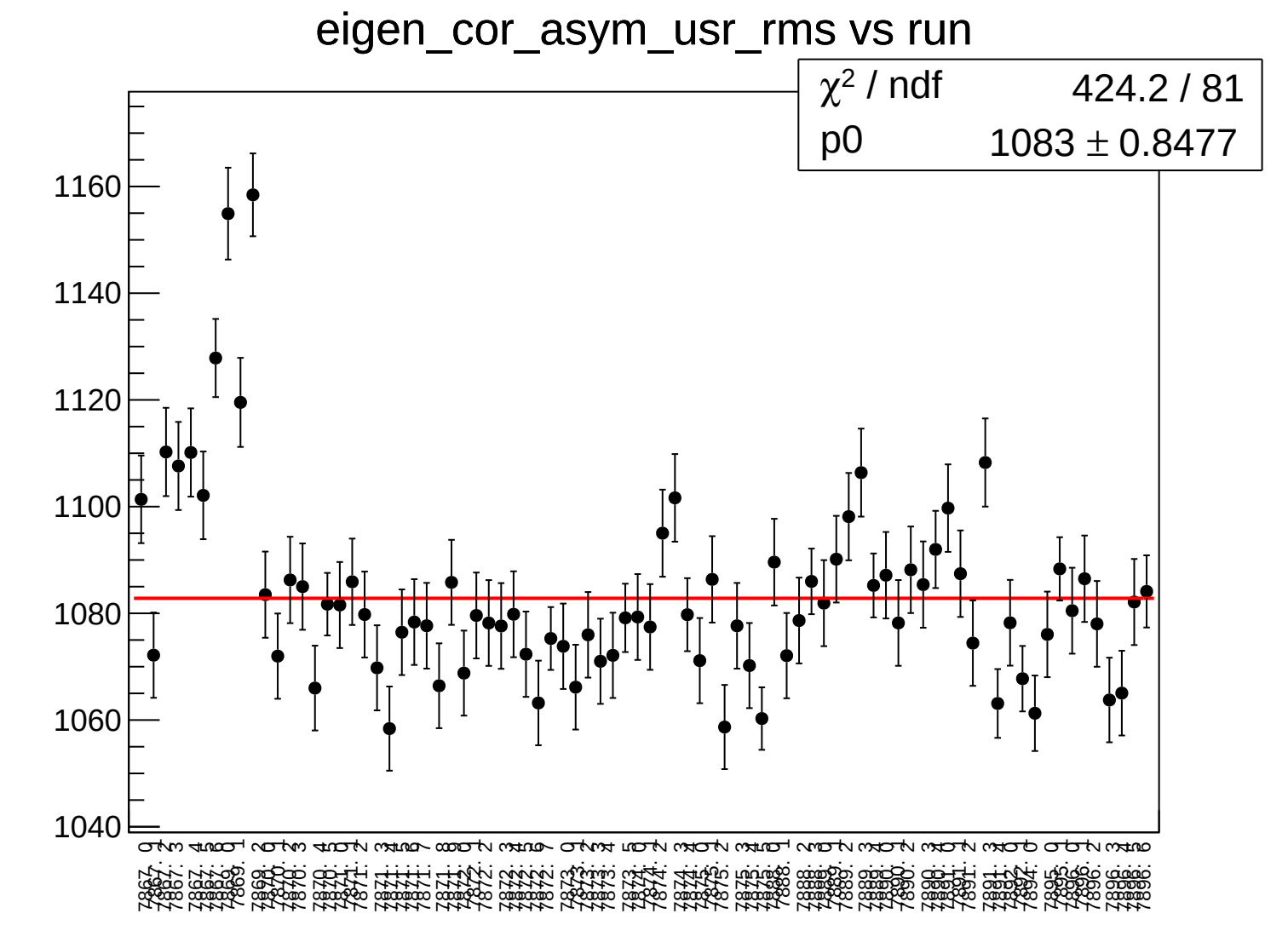

asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 67.39 / 80
p0 1622 ± 3545
150
100
50
0
−50
−100
pull
Entries 81
Mean −120.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

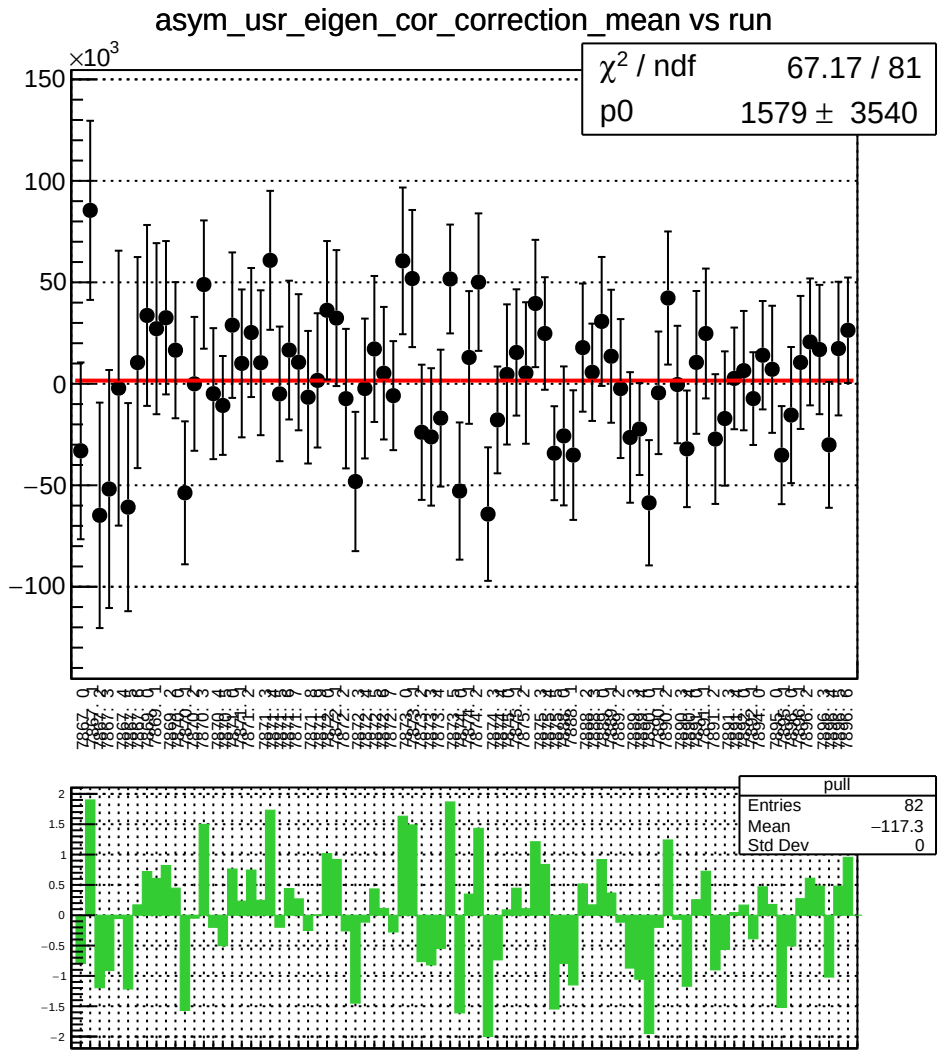

pull1D
Entries 81
Mean 0.01309
Std Dev 0.912
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

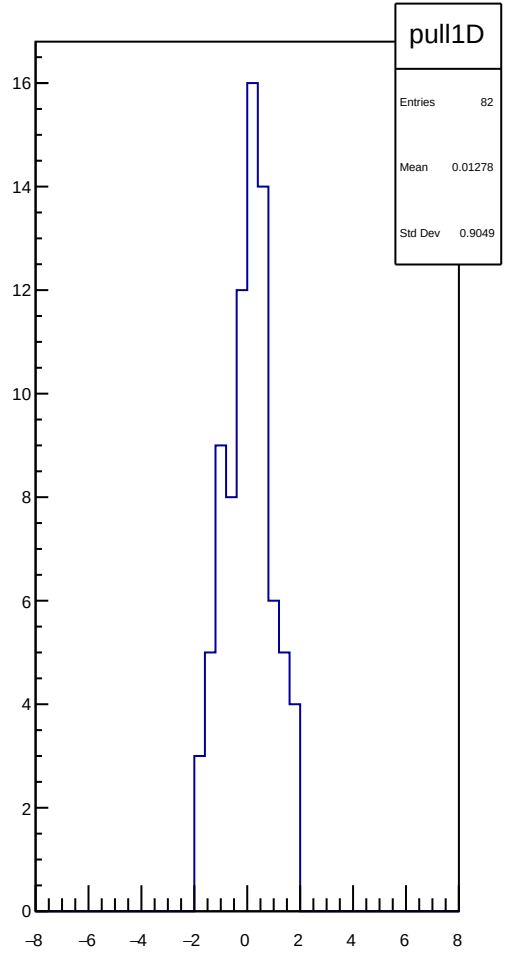

asym_usr_overload_cor_correction_rms vs run
χ^2 / ndf 2.346e+04 / 80
p0 3162 ± 2.507
6000
5500
5000
4500
4000
3500
3000
2500

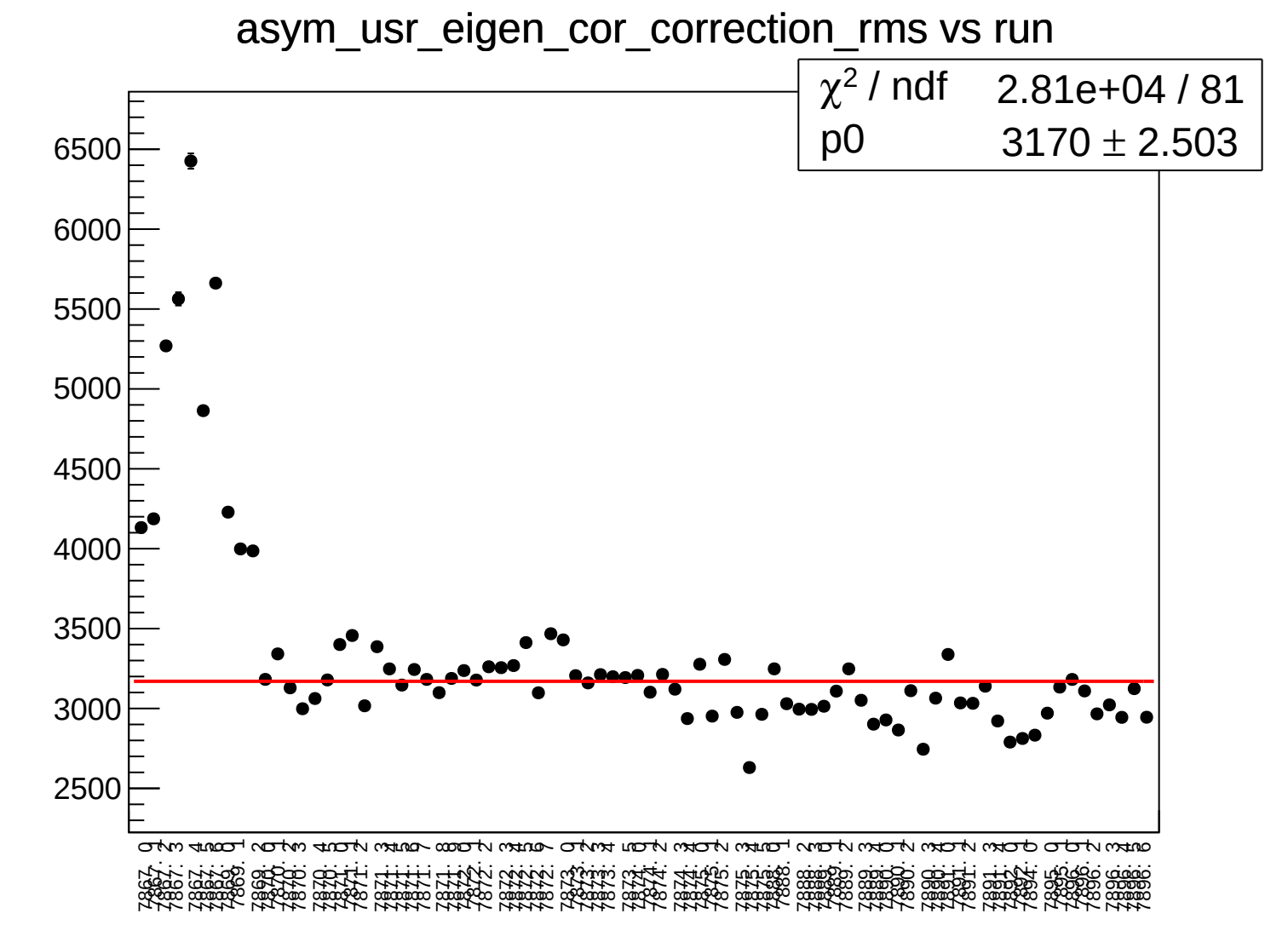

eigen_cor_asym_usr_mean vs run
χ² / ndf 76.4 / 81
p0 −1015 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1472
Std Dev 0
3
2
1
0
−1
−2
−3

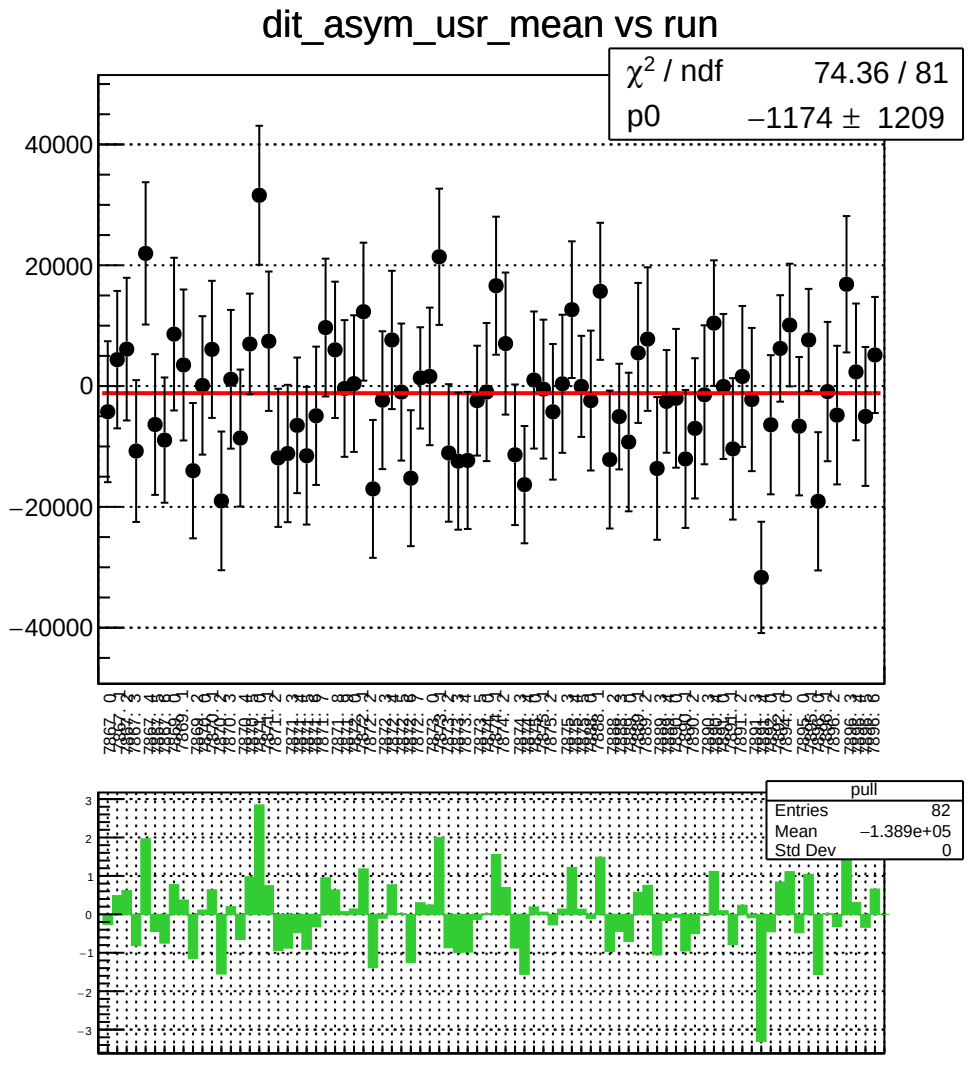

pull1D
Entries 82
Mean −0.001322
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

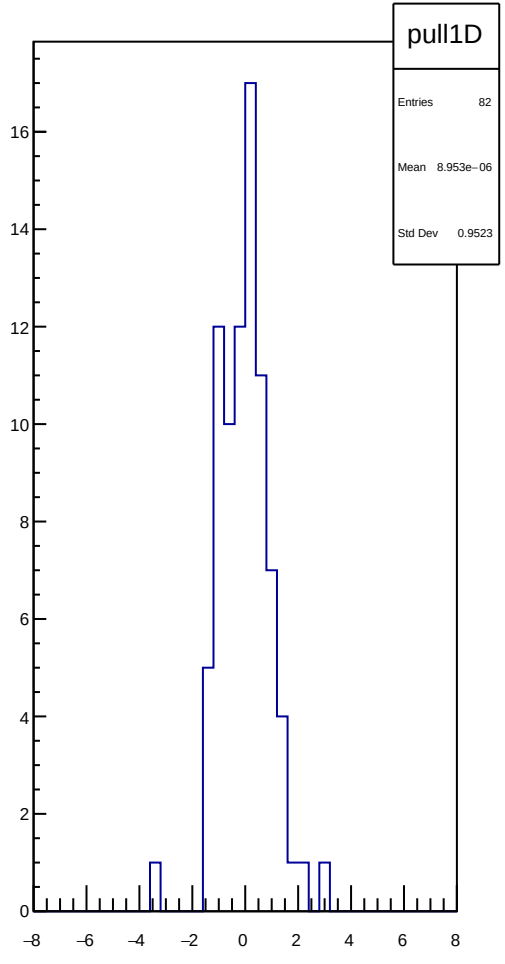

eigen_cor_asym_usr_rms vs run
χ² / ndf 424.2 / 81
p0 1083 ± 0.8477
1160
1140
1120
1100
1080
1060
1040

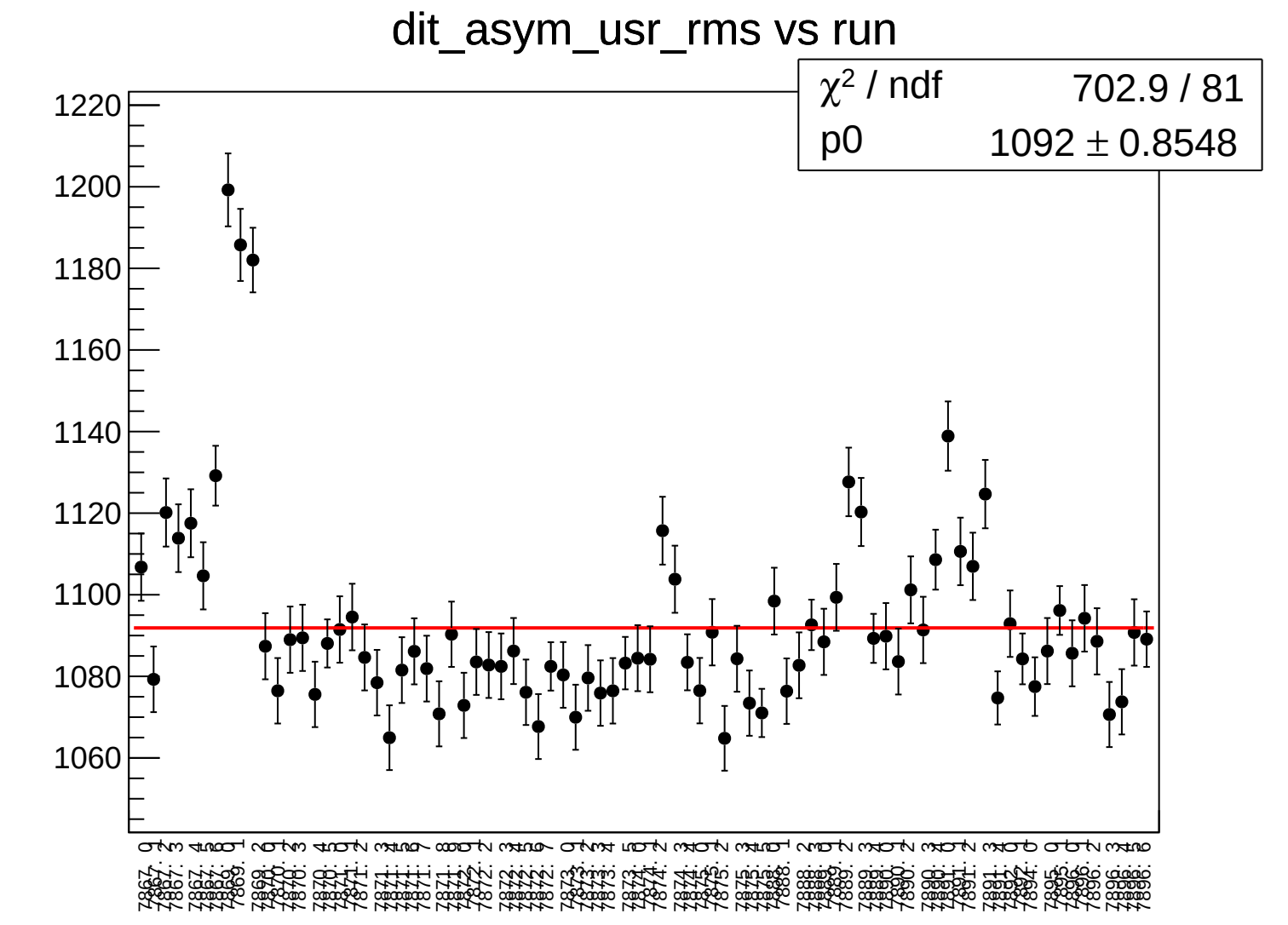

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.17 / 81
p0 1579 ± 3540
150
100
50
0
−50
−100
pull
Entries 82
Mean −117.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

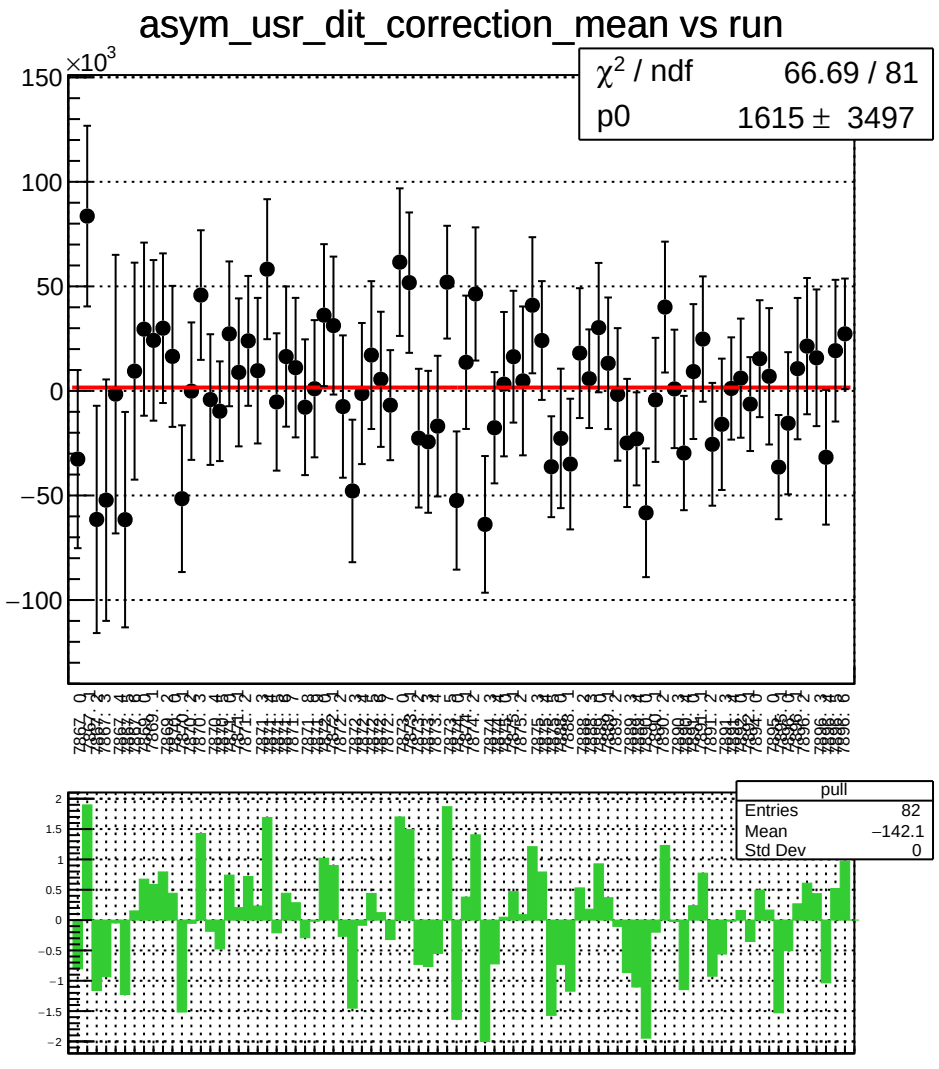

pull1D
Entries 82
Mean 0.01278
Std Dev 0.9049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

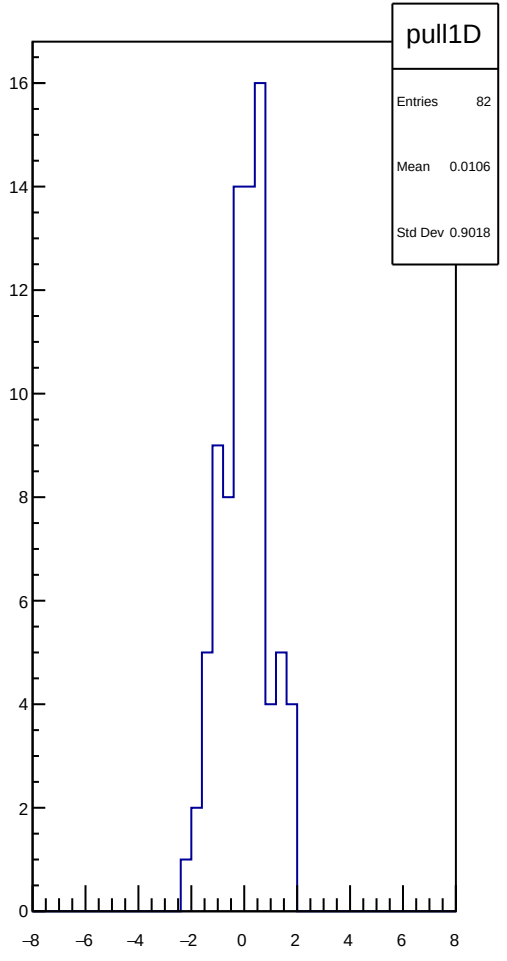

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 2.81e+04 / 81
p0 3170 ± 2.503
6500
6000
5500
5000
4500
4000
3500
3000
2500

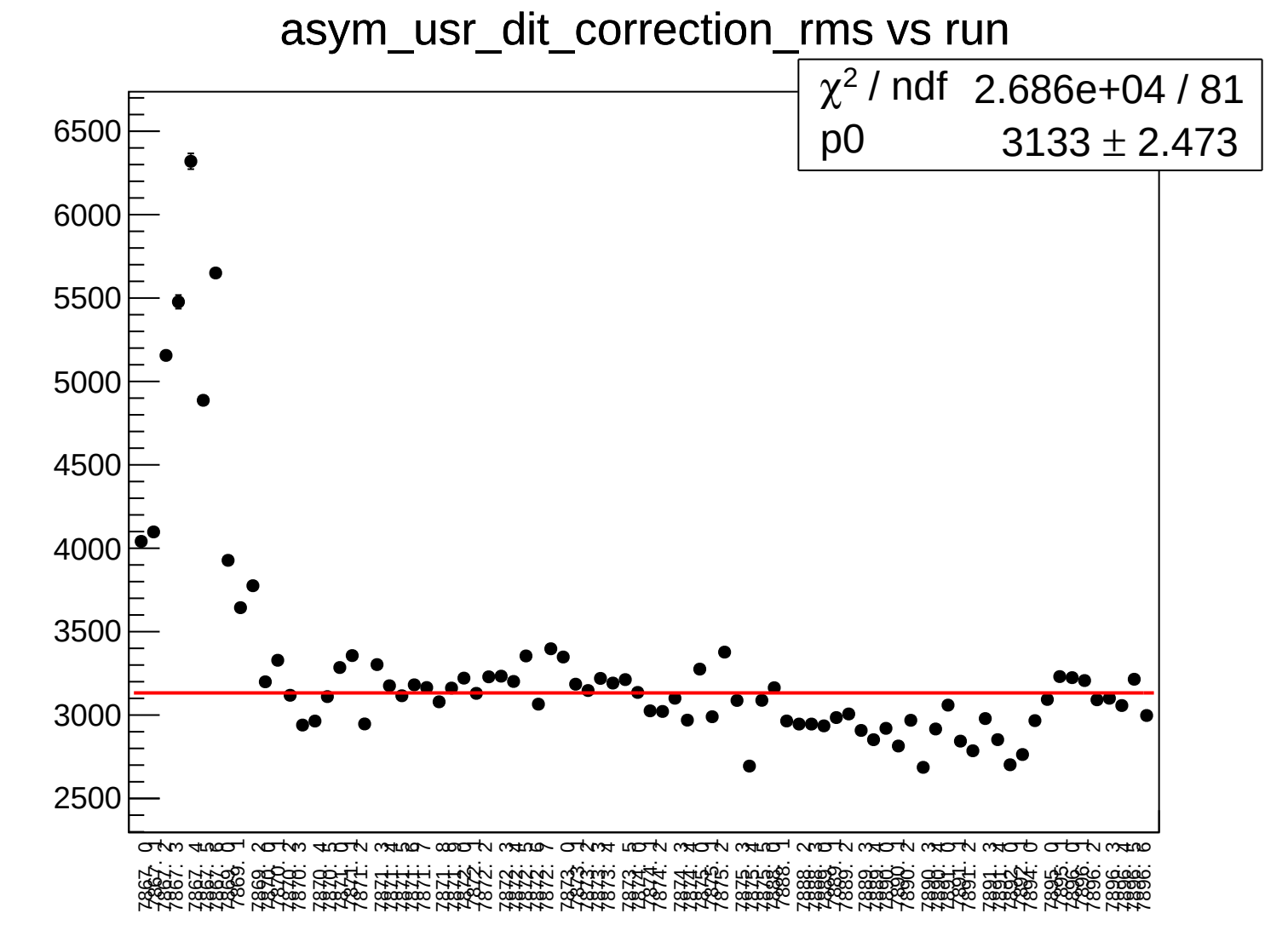

dit_asym_usr_mean vs run
χ² / ndf 74.36 / 81
p0 −1174 ± 1209
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −1.389e+05
Std Dev 0

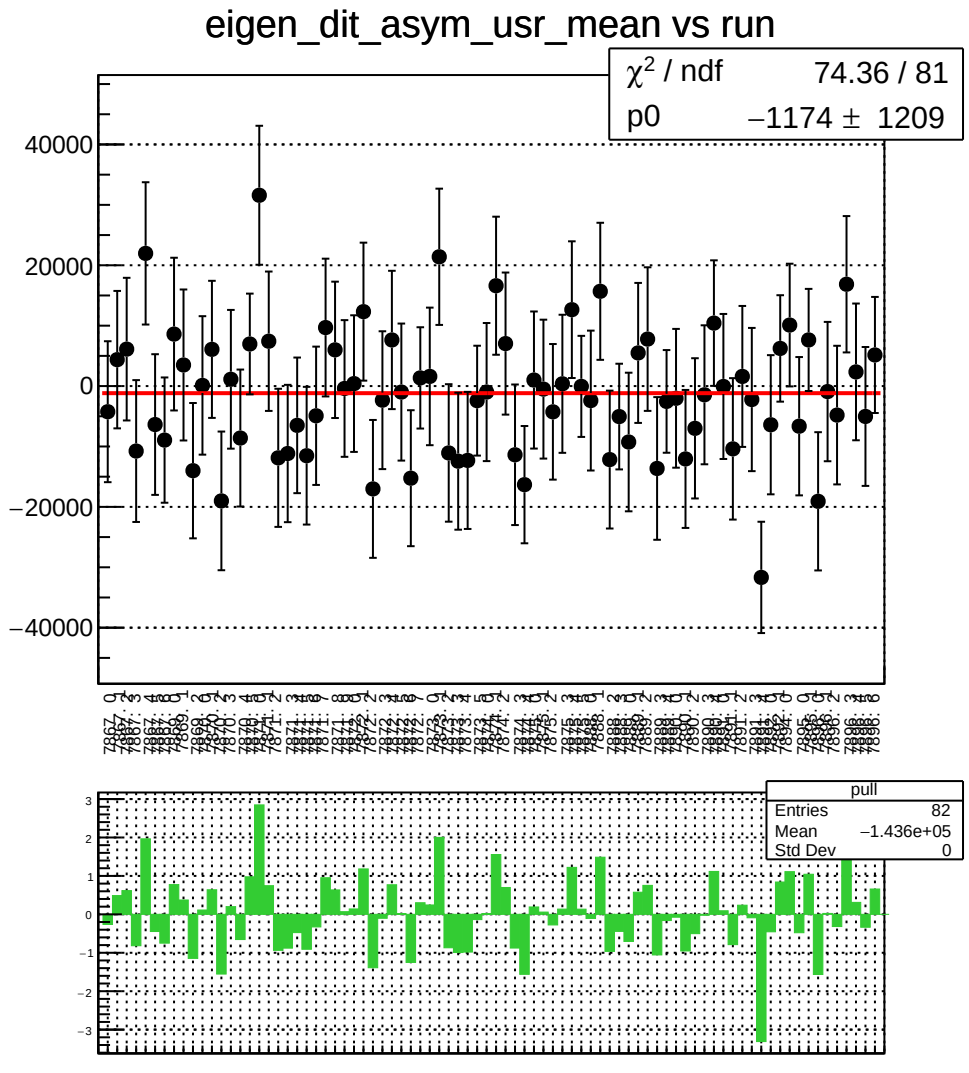

pull1D
Entries 82
Mean 8.953e−06
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

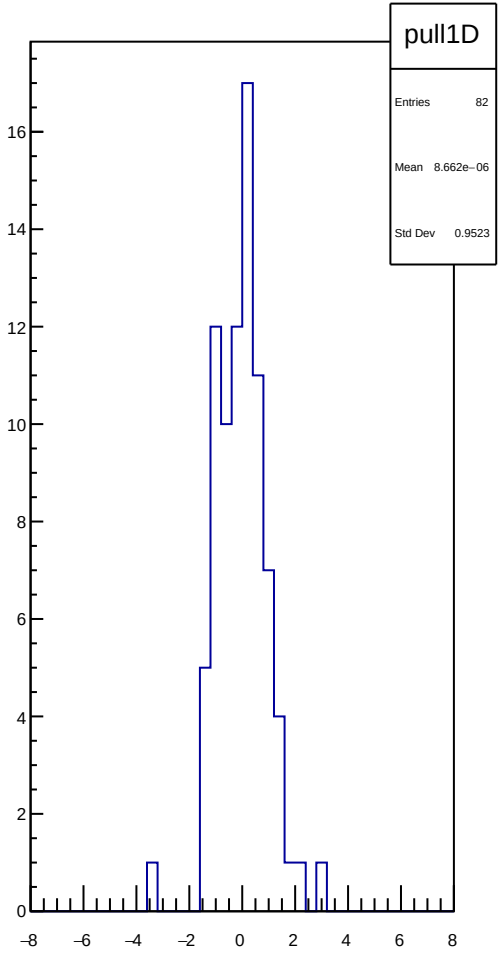

dit_asym_usr_rms vs run
χ² / ndf 702.9 / 81
p0 1092 ± 0.8548
1220
1200
1180
1160
1140
1120
1100
1080
1060


asym_usr_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.69 / 81
p0 1615 ± 3497
150
100
50
0
−50
−100
pull
Entries 82
Mean −142.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.0106
Std Dev 0.9018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_dit_correction_rms vs run
χ² / ndf 2.686e+04 / 81
p0 3133 ± 2.473
6500
6000
5500
5000
4500
4000
3500
3000
2500


eigen_dit_asym_usr_mean vs run
χ² / ndf 74.36 / 81
p0 −1174 ± 1209
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −1.436e+05
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 8.662e−06
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
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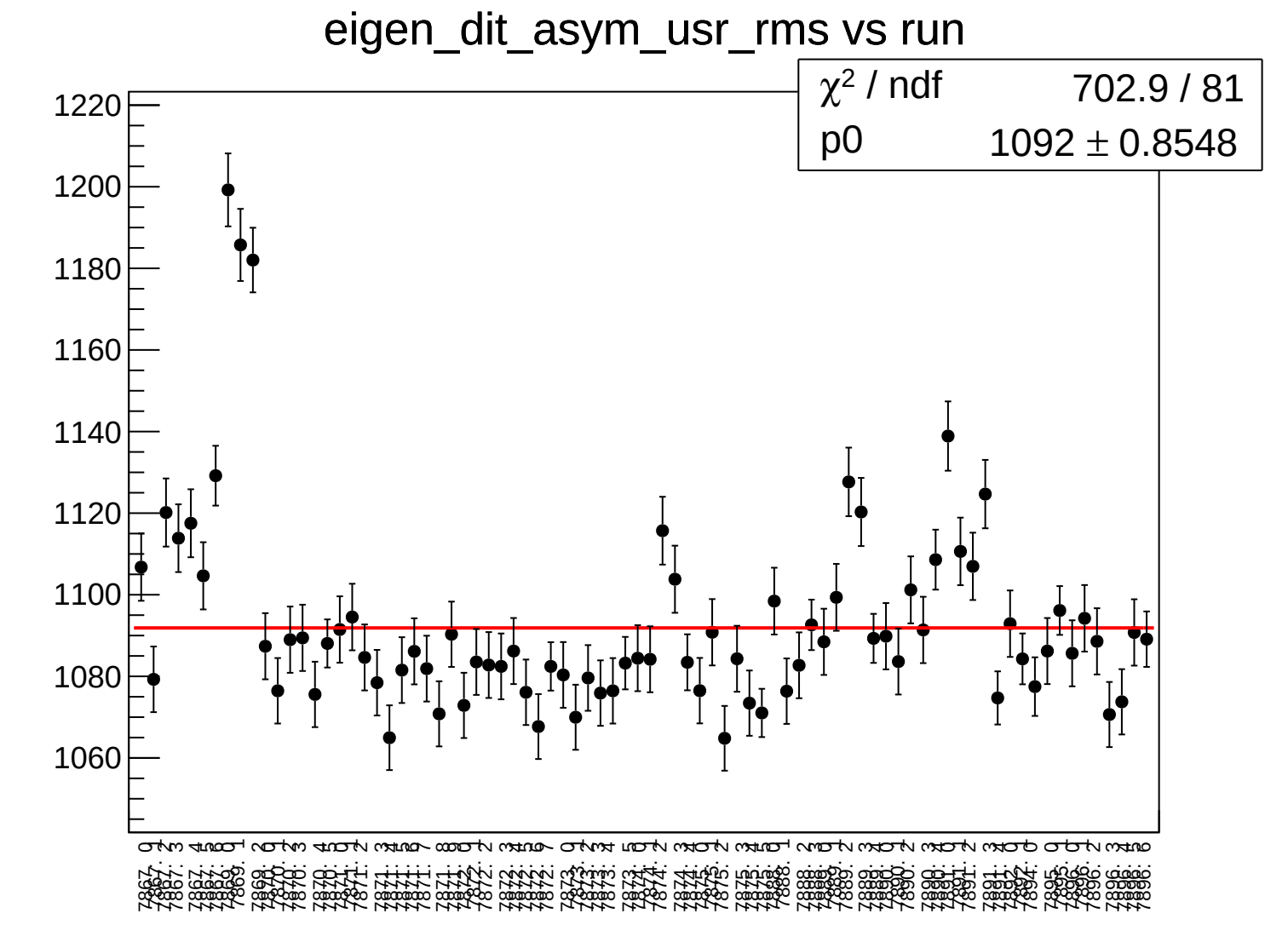
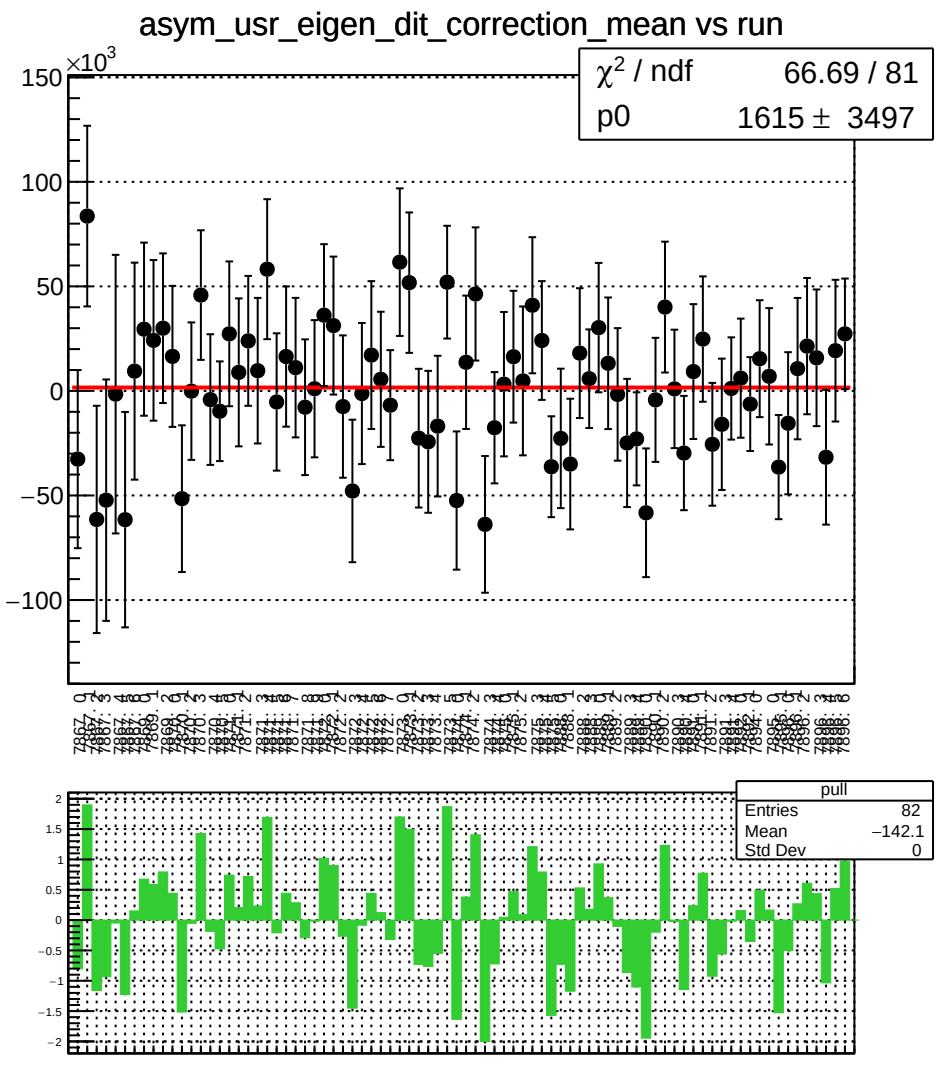
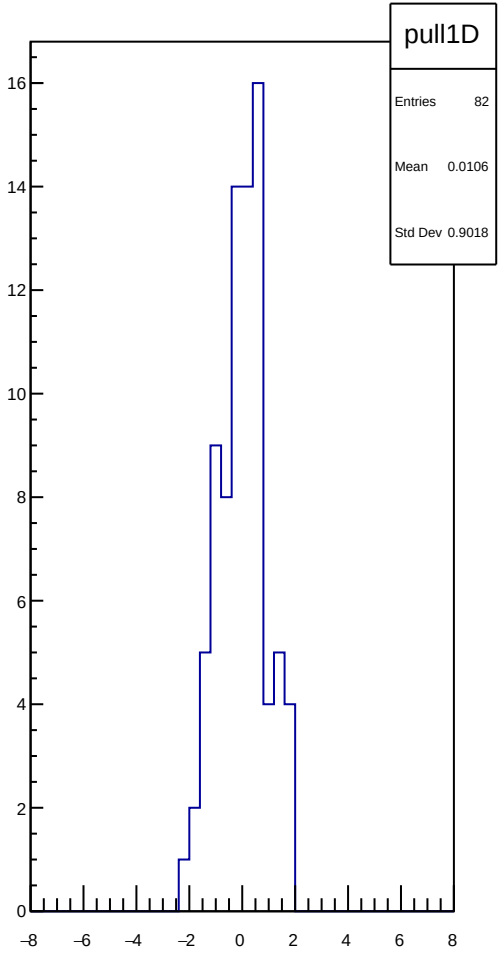
2
4
6
8


eigen_dit_asym_usr_rms vs run
χ² / ndf 702.9 / 81
p0 1092 ± 0.8548
1220
1200
1180
1160
1140
1120
1100
1080
1060


asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.69 / 81
p0 1615 ± 3497
150
100
50
0
−50
−100
pull
Entries 82
Mean −142.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.0106
Std Dev 0.9018
16
14
12
10
8
6
4
2
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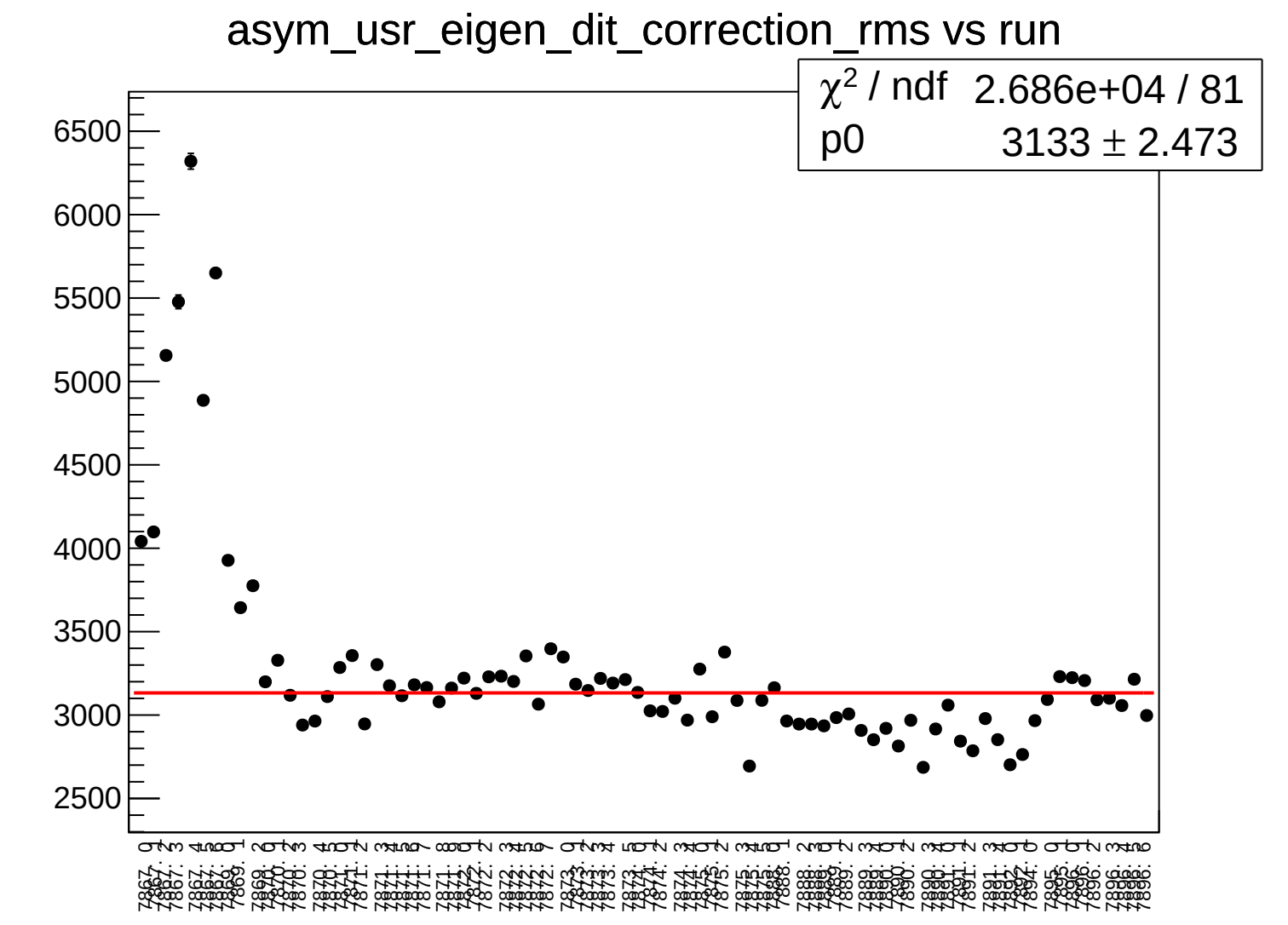
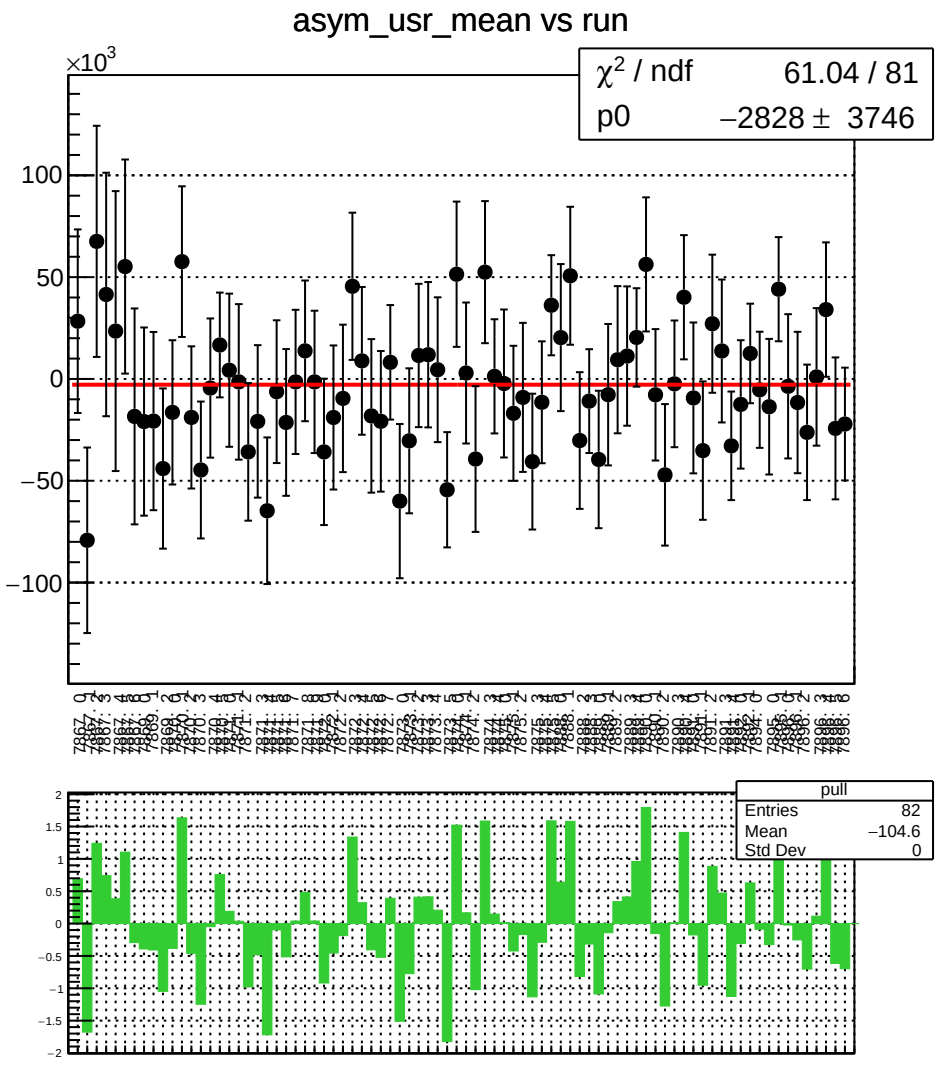
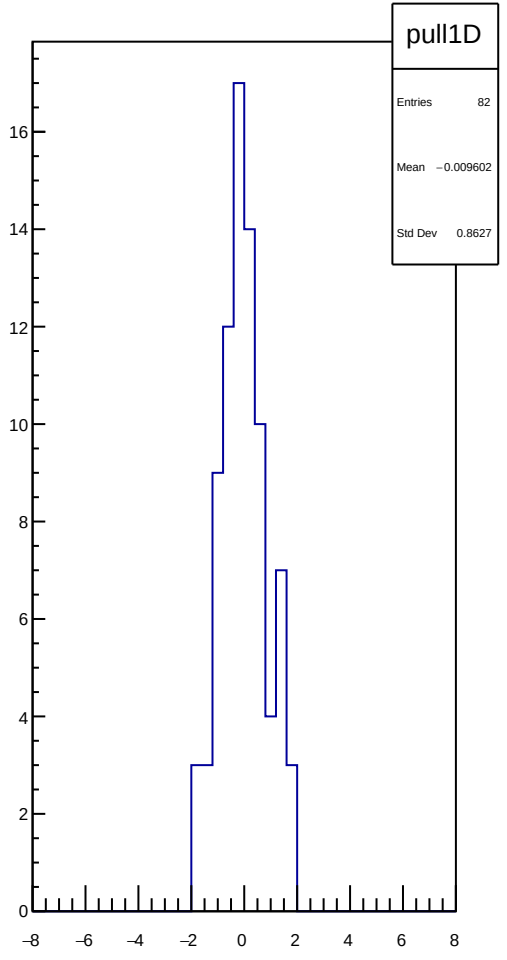
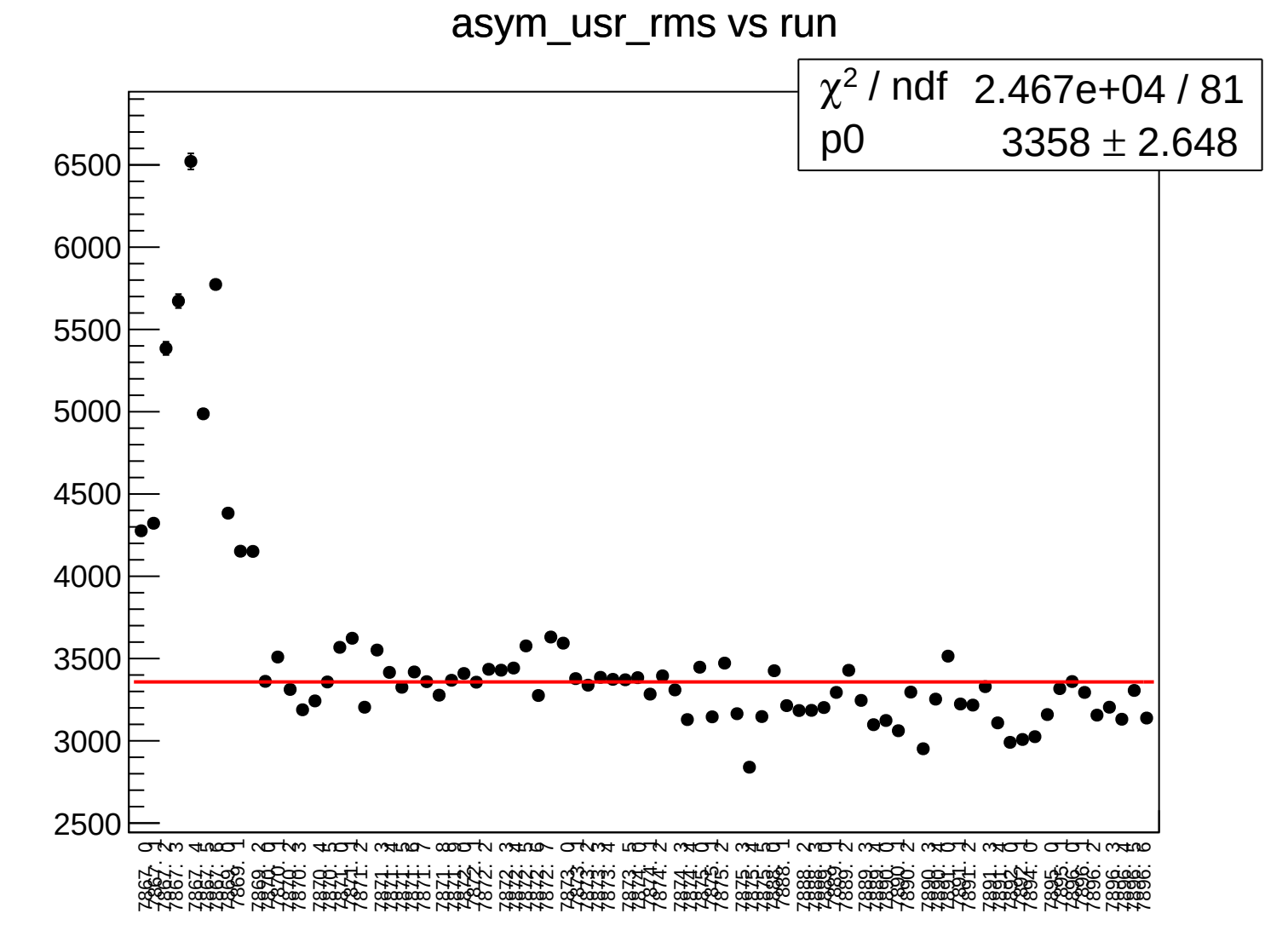
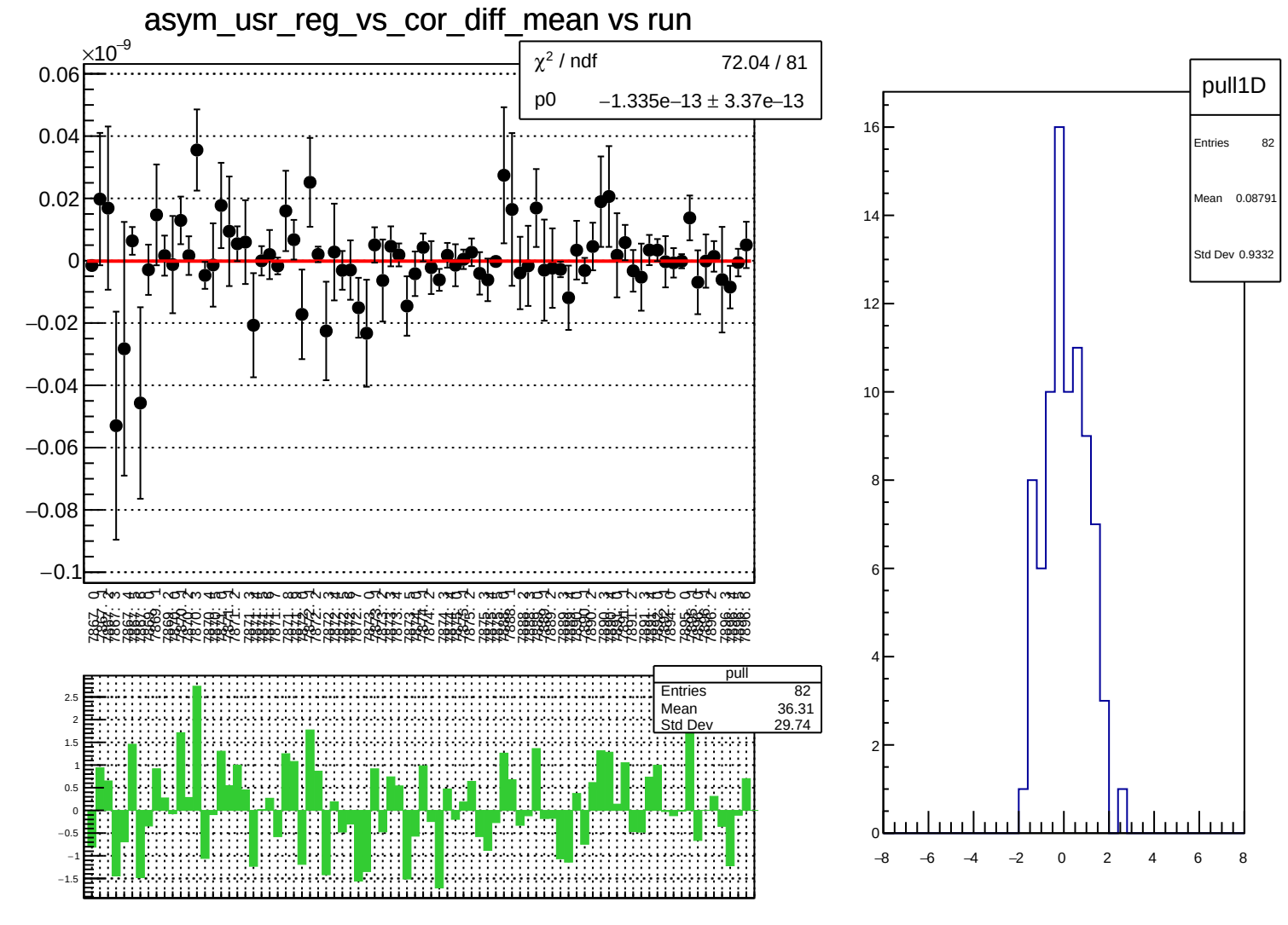
−8
−6
−4
−2
0
2
4
6
8

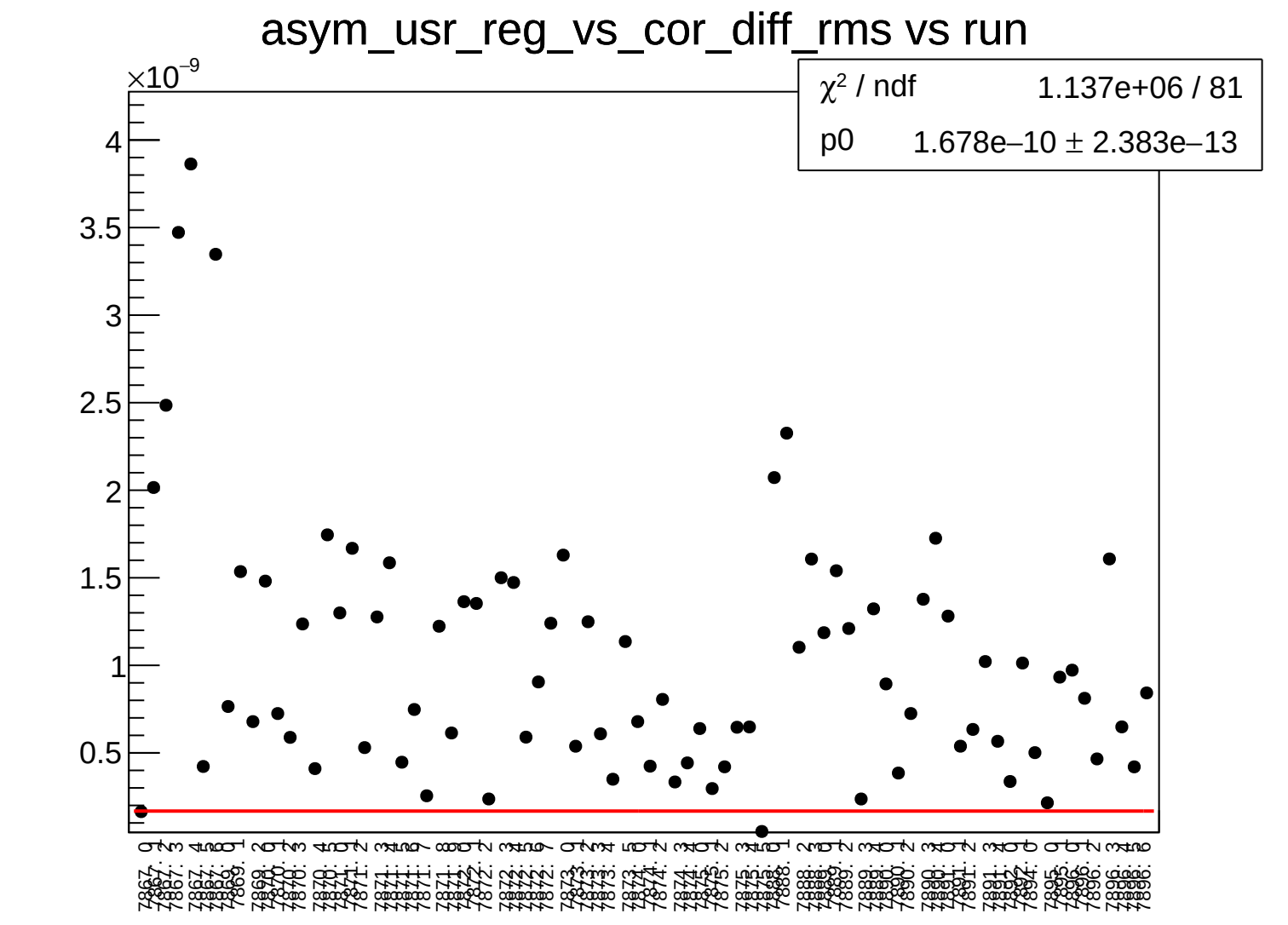

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2.686e+04 / 81
p0 3133 ± 2.473
6500
6000
5500
5000
4500
4000
3500
3000
2500

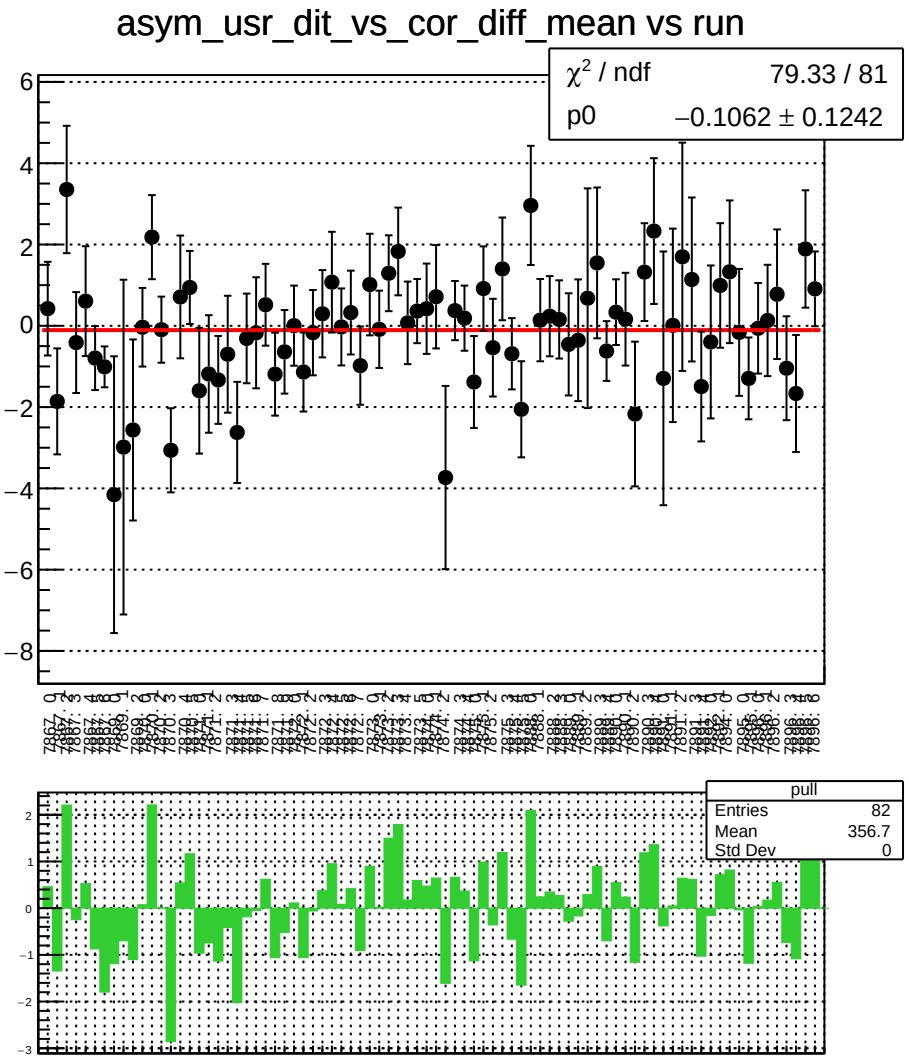

asym_usr_mean vs run
×10^3
χ² / ndf 61.04 / 81
p0 −2828 ± 3746
100
50
0
−50
−100
pull
Entries 82
Mean −104.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

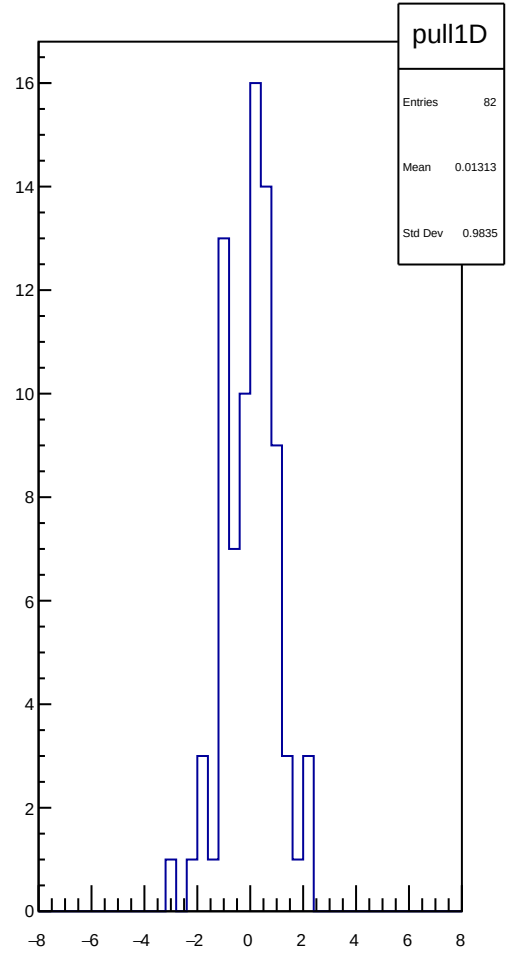

pull1D
Entries 82
Mean −0.009602
Std Dev 0.8627
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

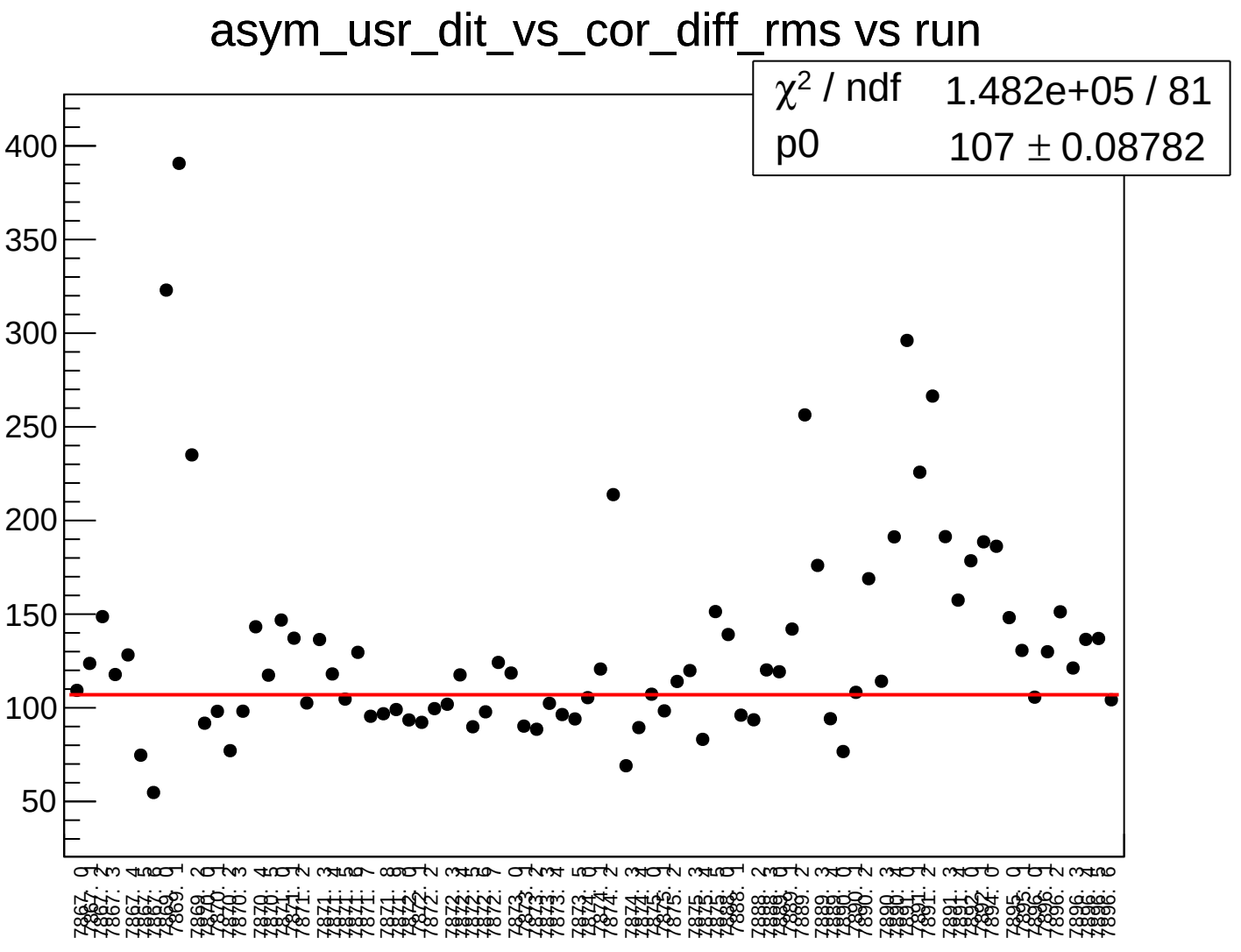

asym_usr_rms vs run
χ² / ndf 2.467e+04 / 81
p0 3358 ± 2.648
6500
6000
5500
5000
4500
4000
3500
3000
2500

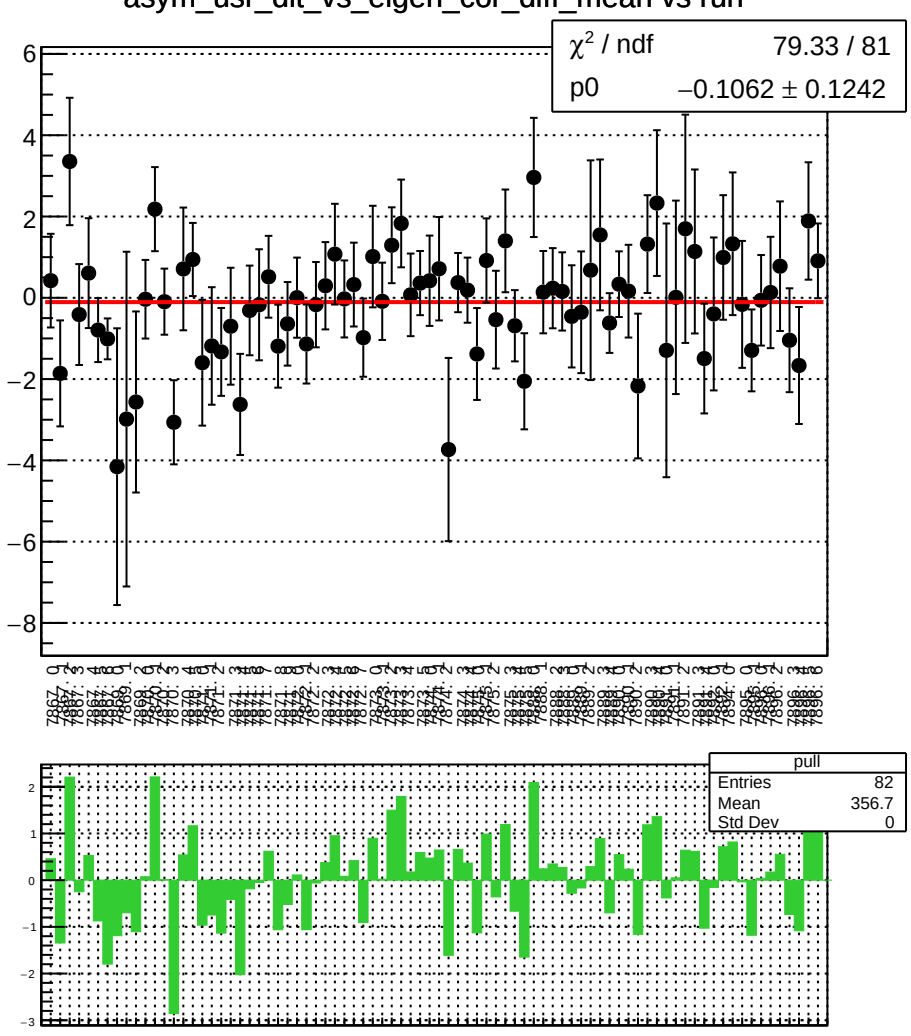

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 72.04 / 81
p0 −1.335e−13 ± 3.37e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 82
Mean 36.31
Std Dev 29.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.08791
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

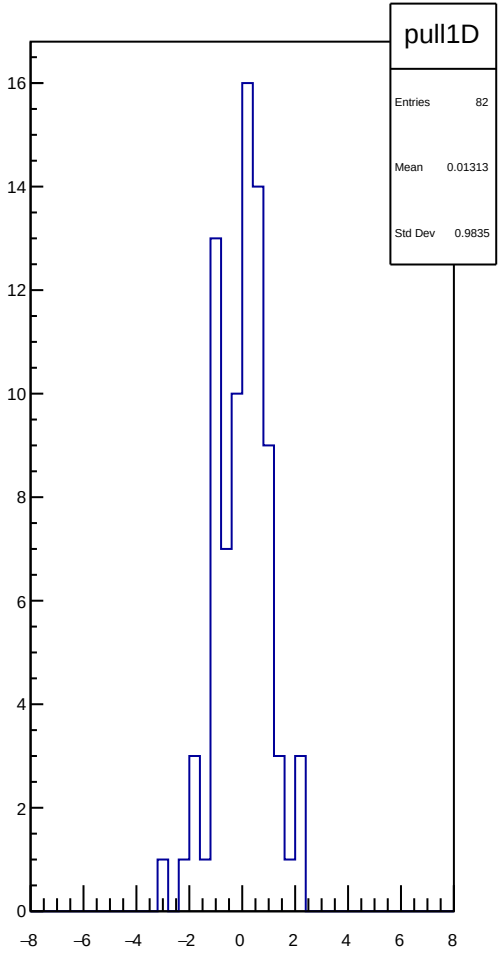

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.137e+06 / 81
p0 1.678e−10 ± 2.383e−13
4
3.5
3
2.5
2
1.5
1
0.5

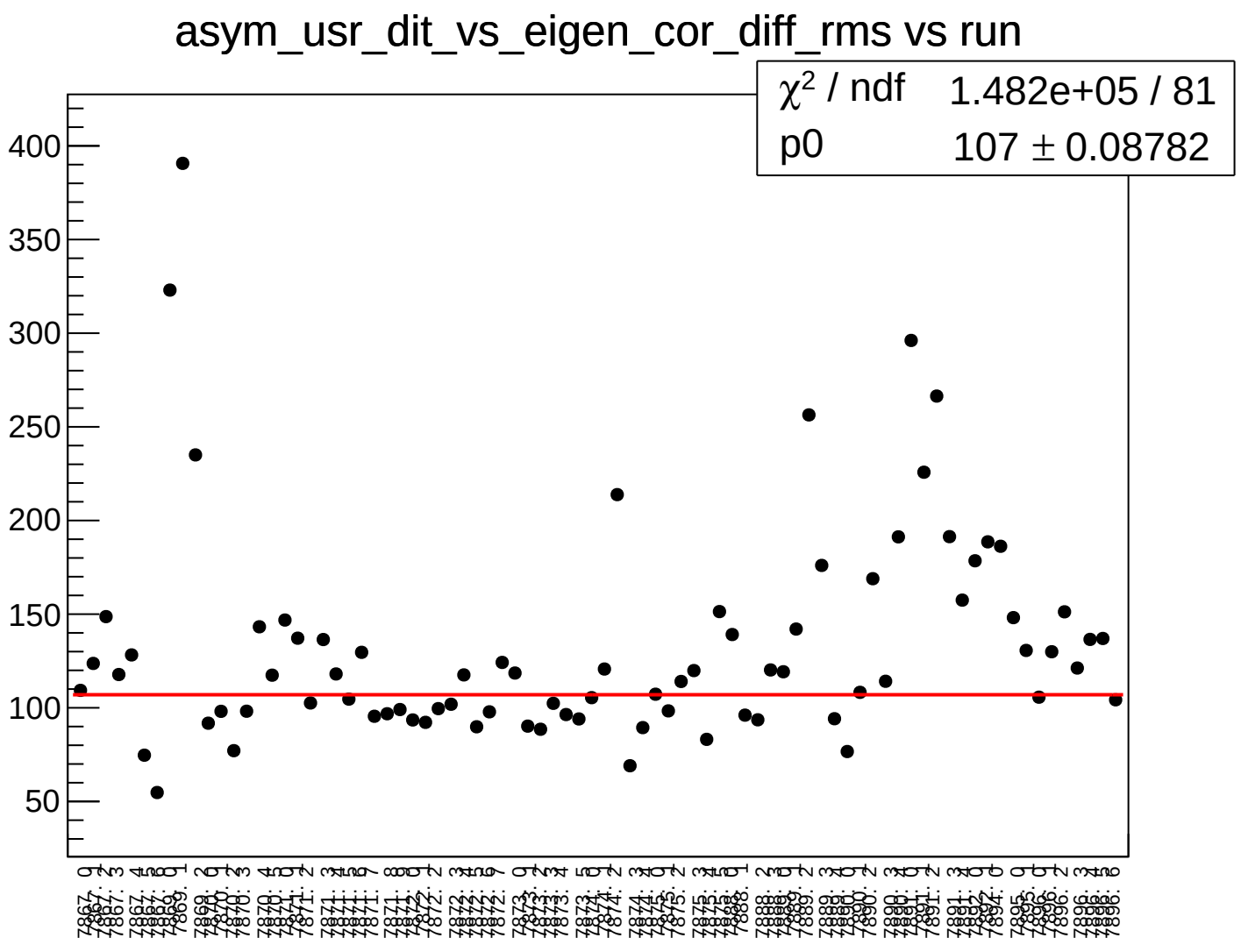

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 79.33 / 81
p0 −0.1062 ± 0.1242
pull
Entries 82
Mean 356.7
Std Dev 0

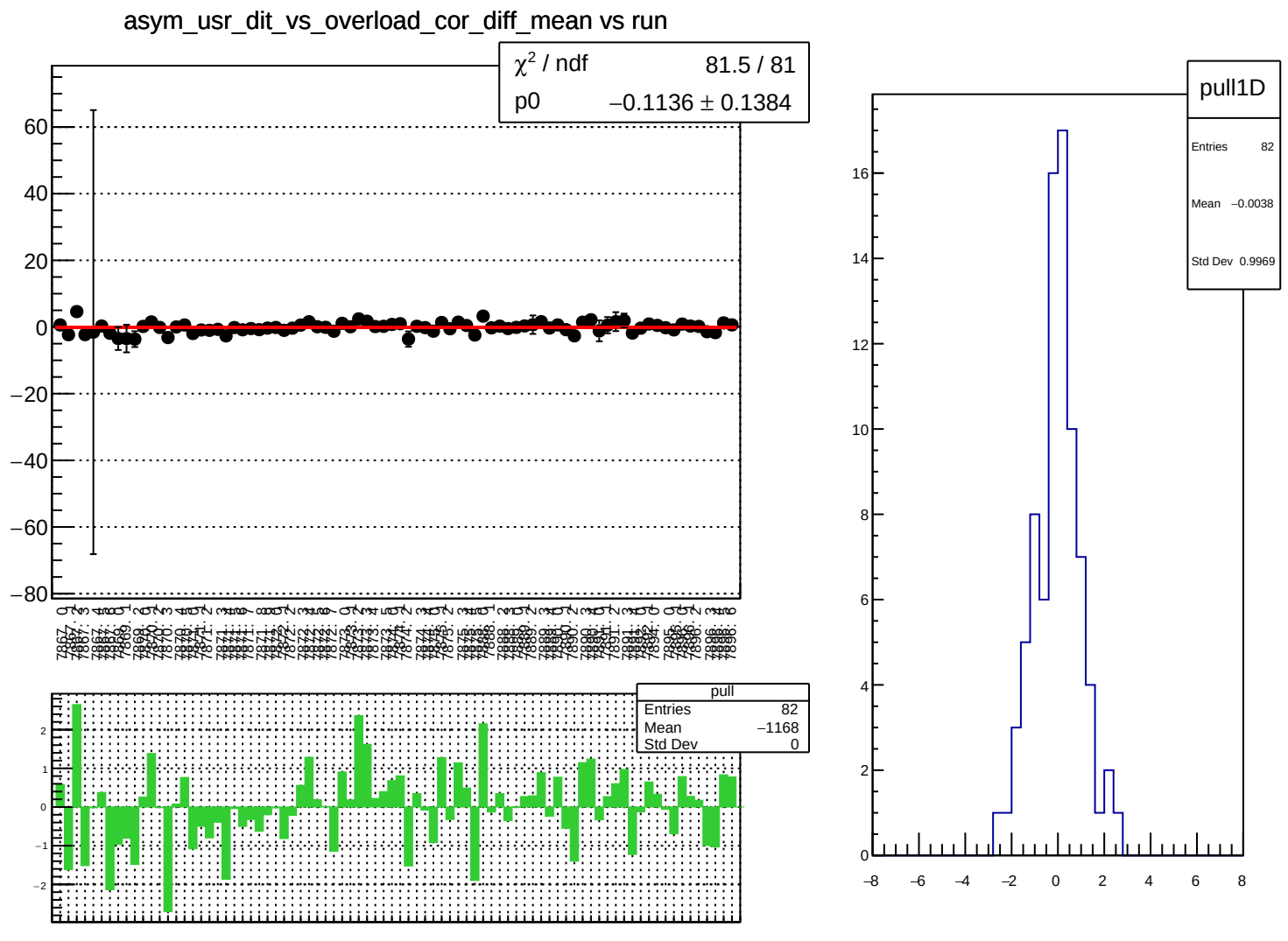

pull1D
Entries 82
Mean 0.01313
Std Dev 0.9835

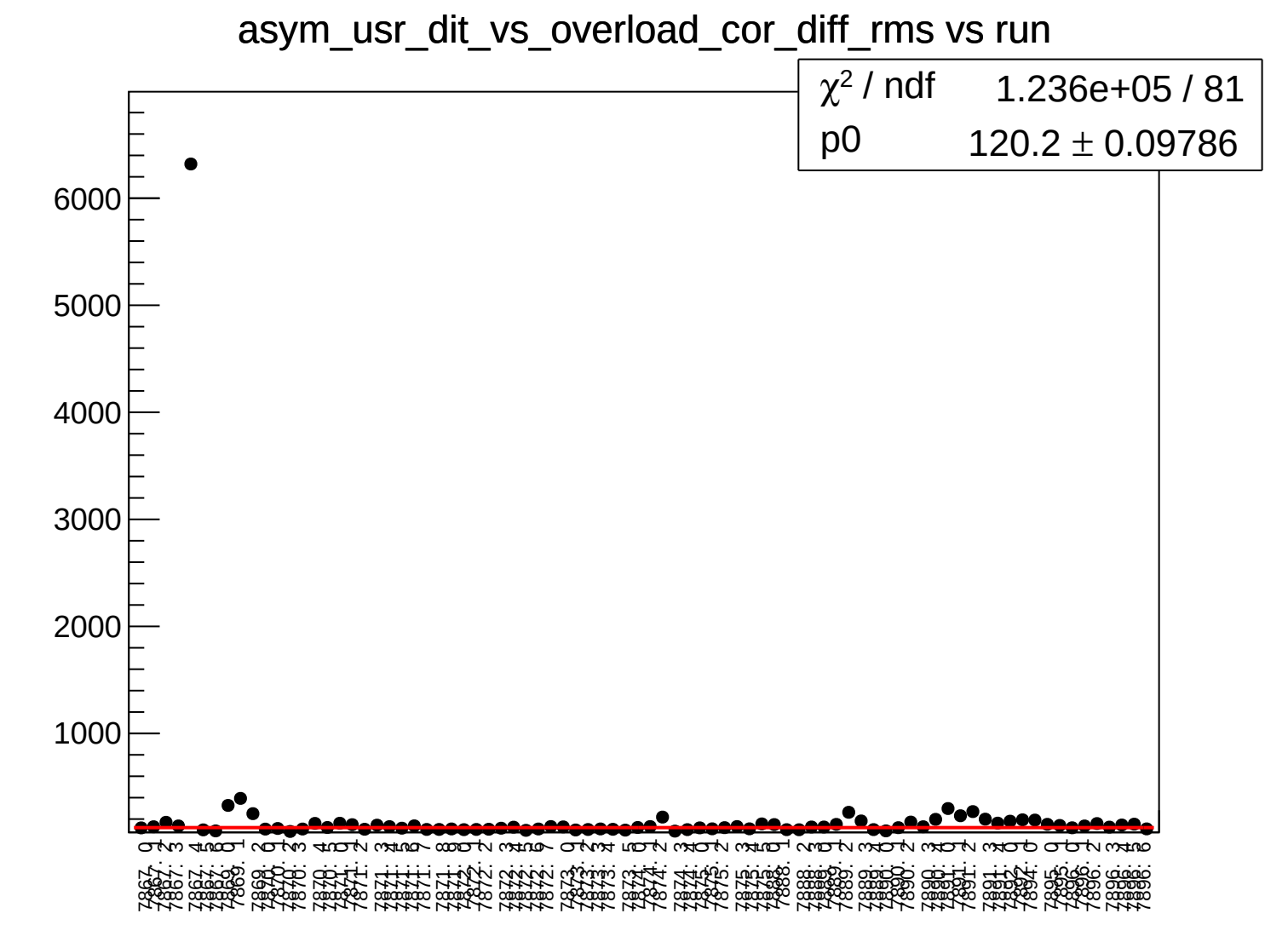

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.482e+05 / 81
p0 107 ± 0.08782
400
350
300
250
200
150
100
50

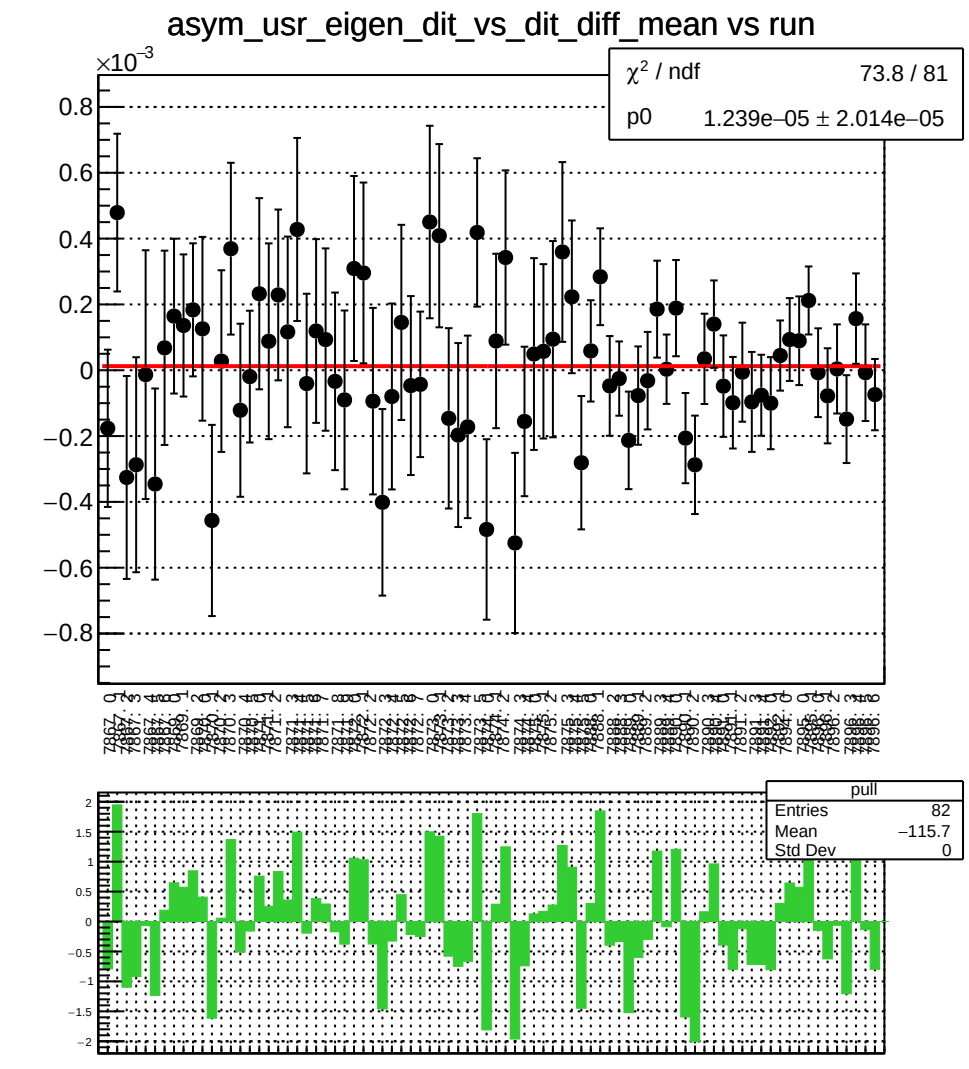

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.33 / 81
p0 −0.1062 ± 0.1242
pull
Entries 82
Mean 356.7
Std Dev 0

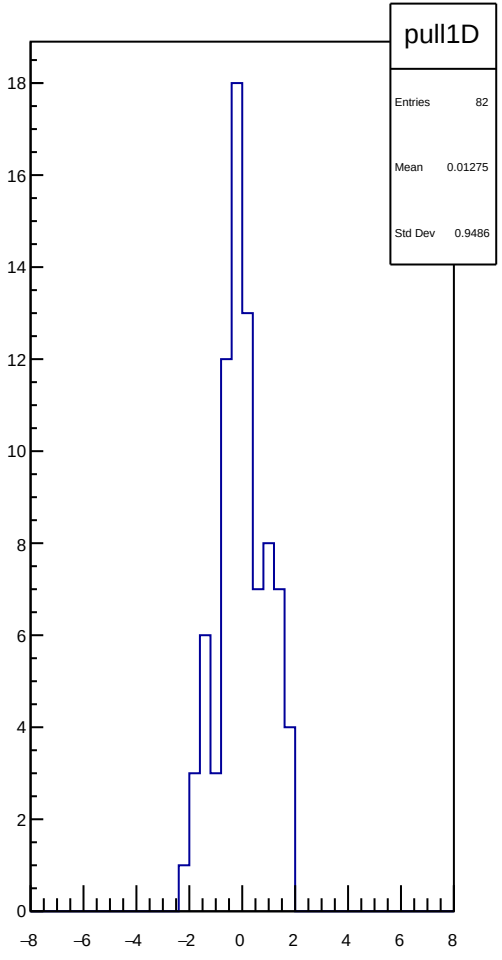

pull1D
Entries 82
Mean 0.01313
Std Dev 0.9835

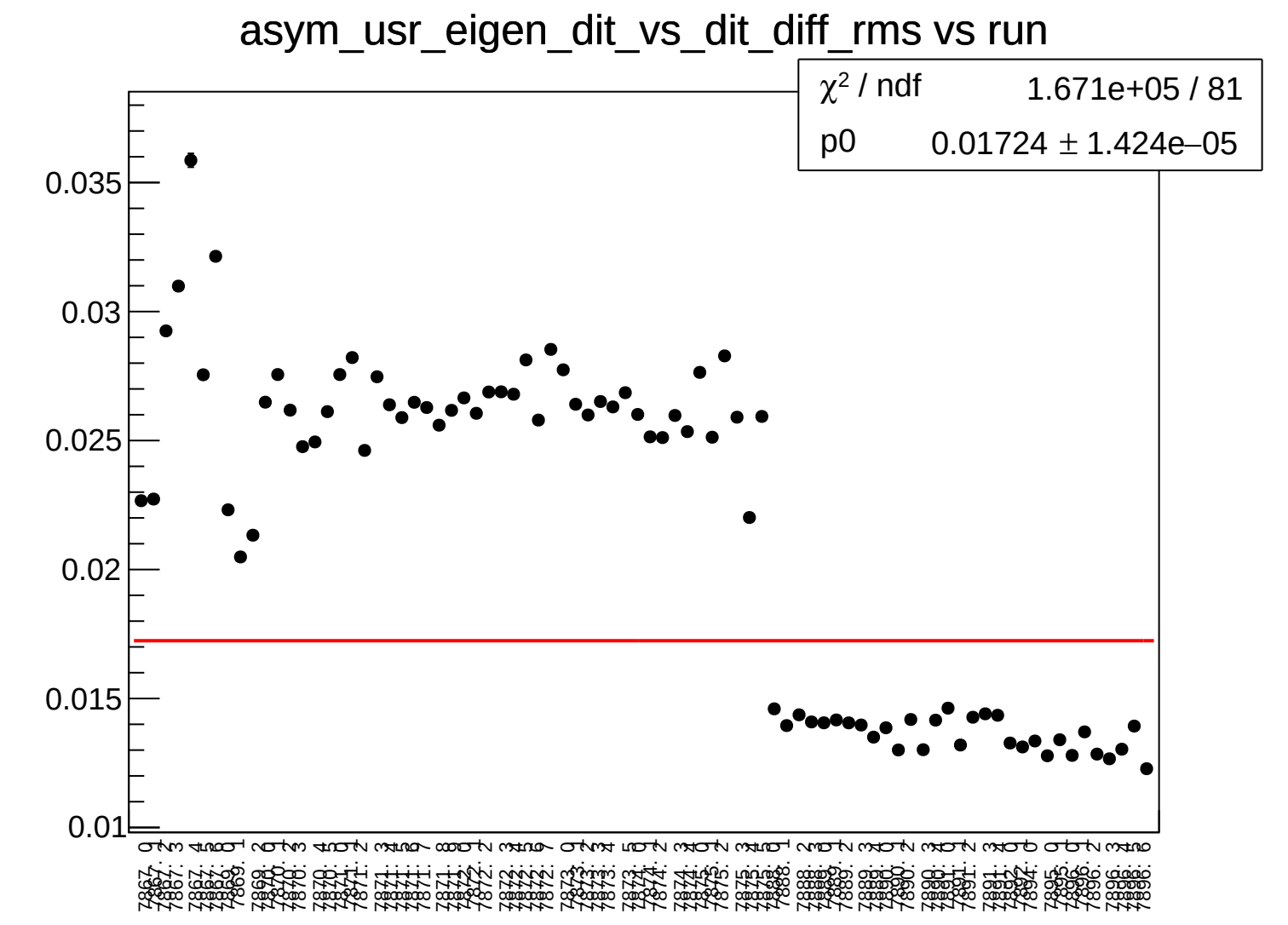

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.482e+05 / 81
p0 107 ± 0.08782
400
350
300
250
200
150
100
50

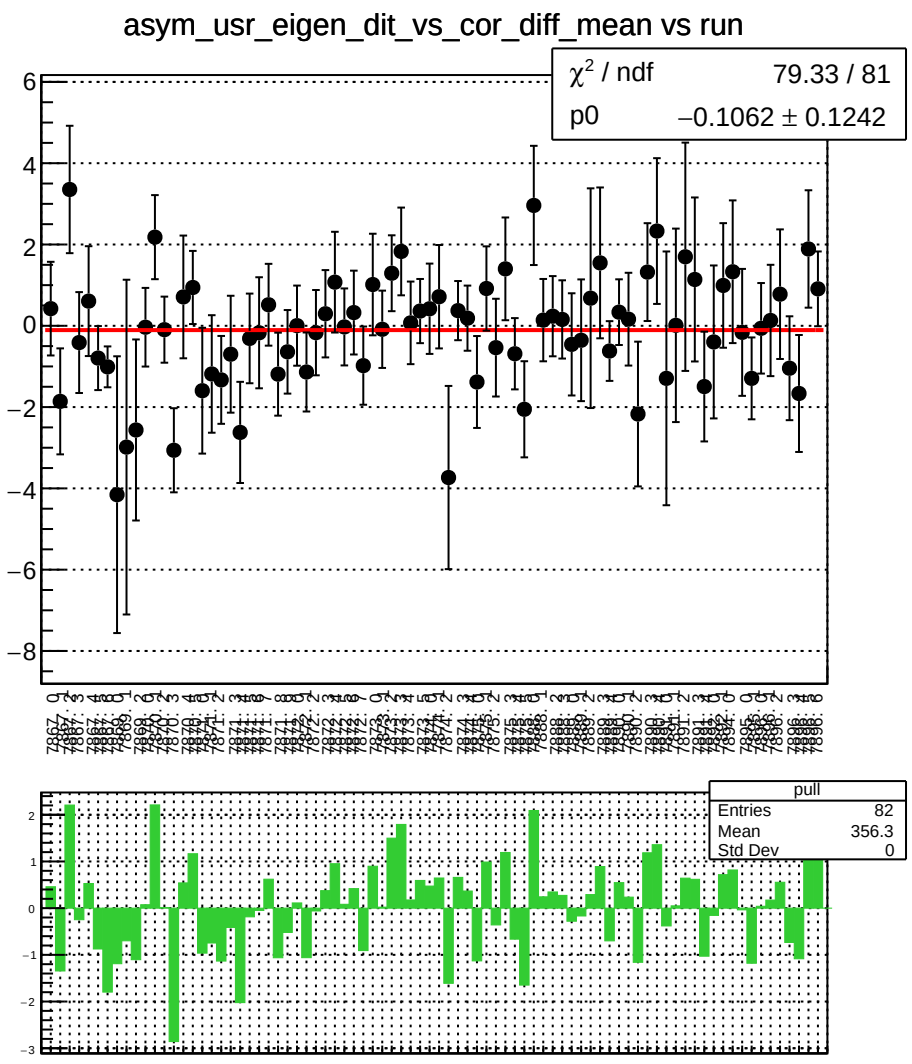

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 81.5 / 81
p0 −0.1136 ± 0.1384
pull
Entries 82
Mean −1168
Std Dev 0
pull1D
Entries 82
Mean −0.0038
Std Dev 0.9969

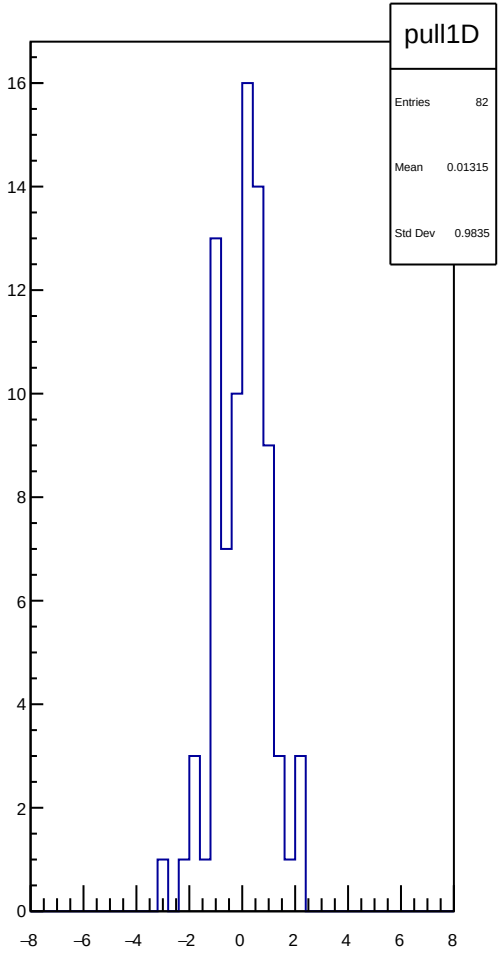

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.236e+05 / 81
p0 120.2 ± 0.09786
6000
5000
4000
3000
2000
1000

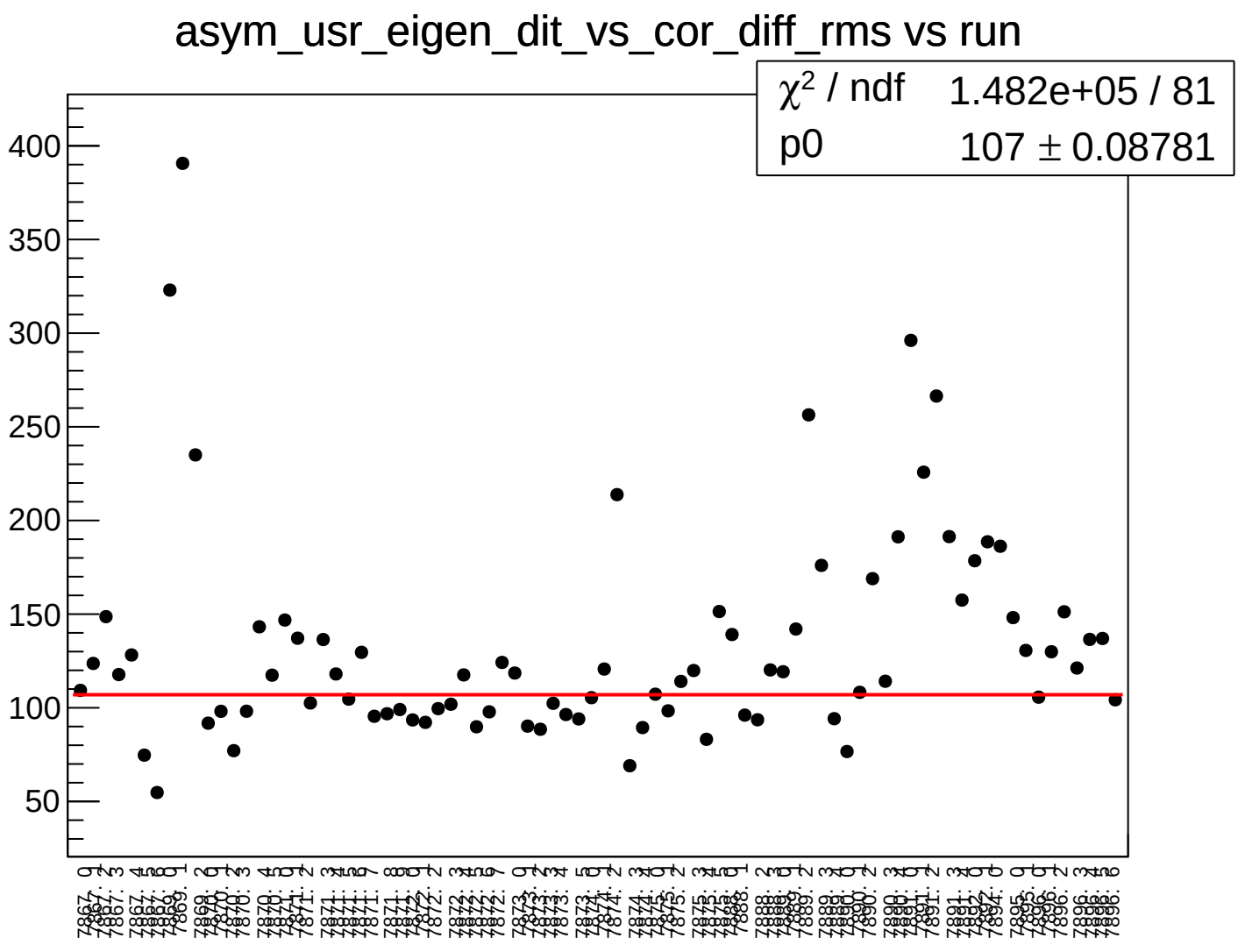

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.8 / 81
p0 1.239e−05 ± 2.014e−05
pull
Entries 82
Mean −115.7
Std Dev 0

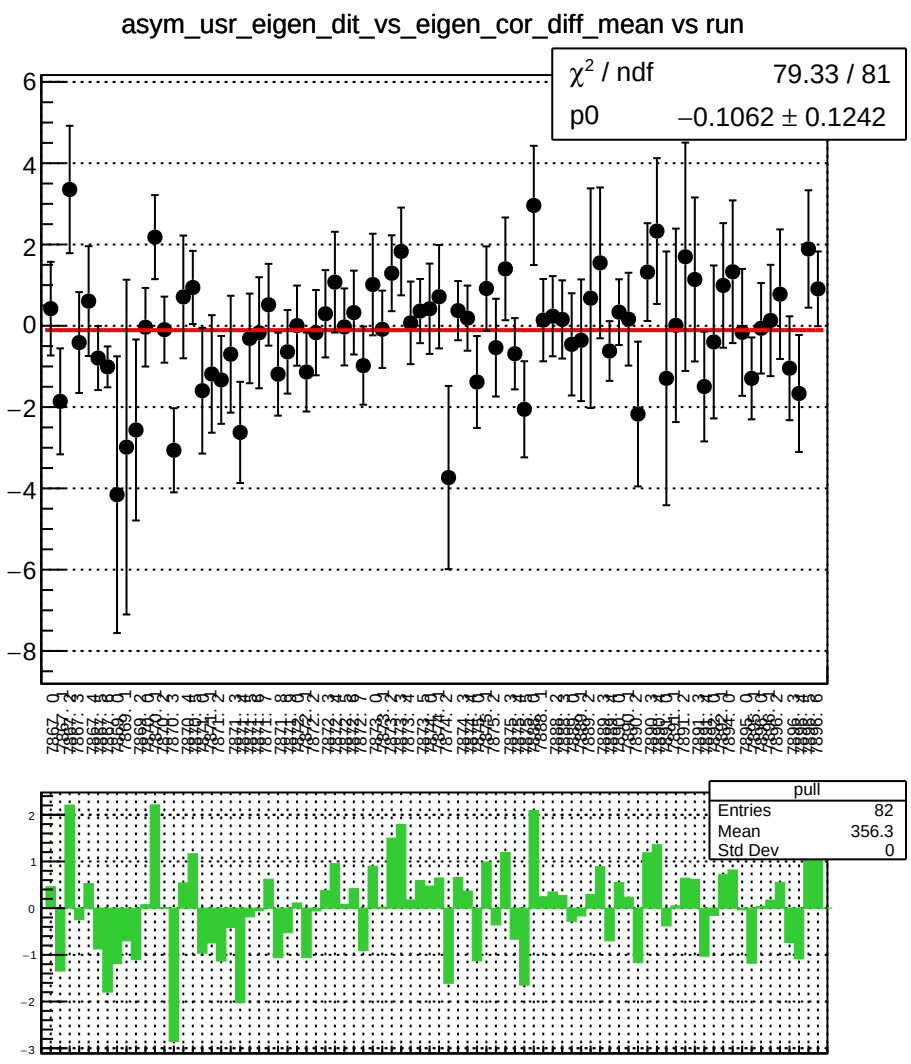

pull1D
Entries 82
Mean 0.01275
Std Dev 0.9486

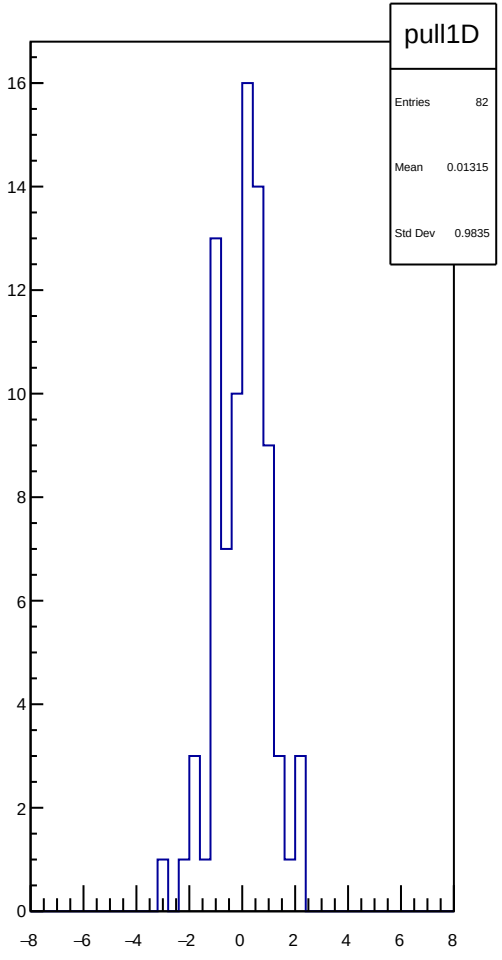

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.671e+05 / 81
p0 0.01724 ± 1.424e–05
0.035
0.03
0.025
0.02
0.015
0.01

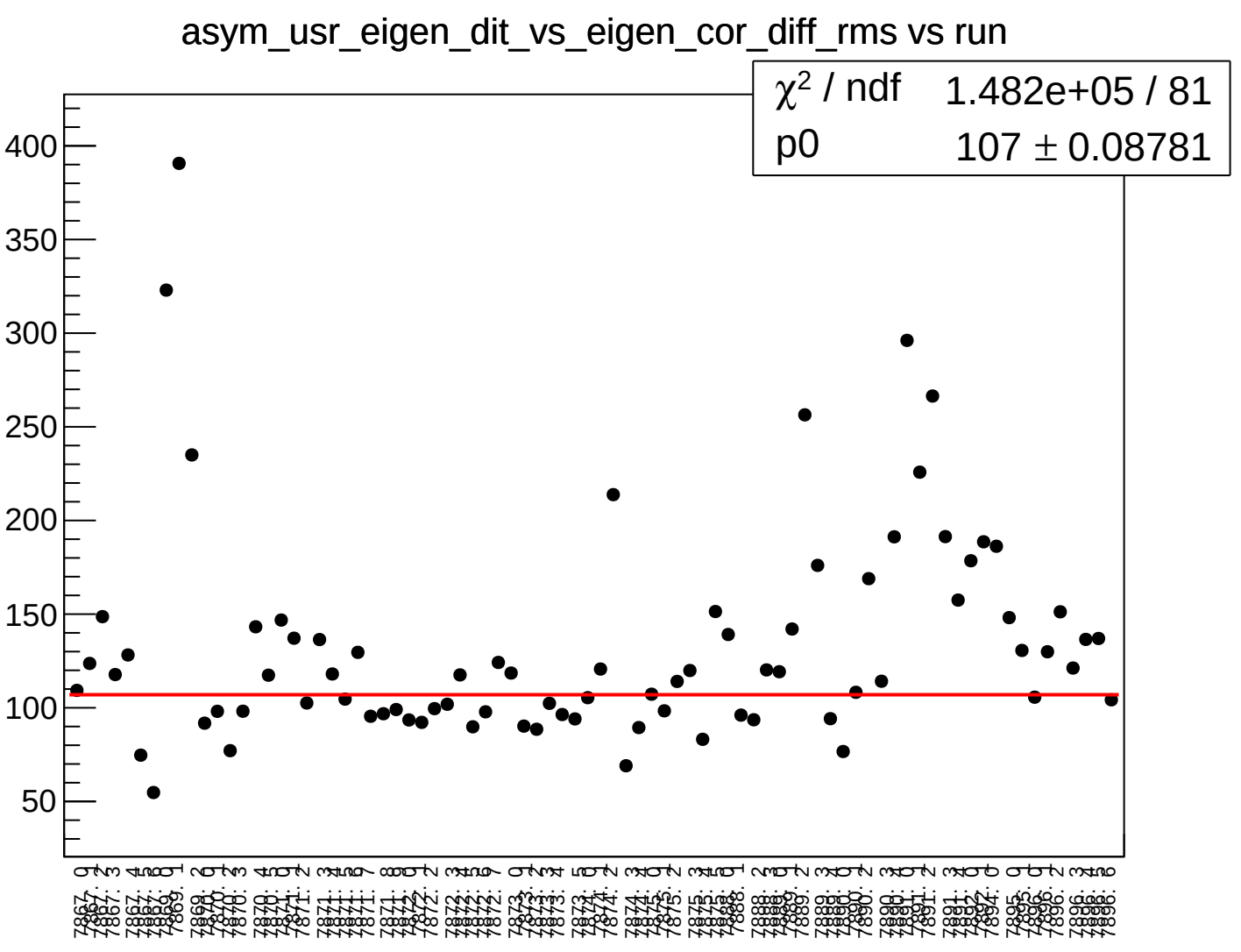

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.33 / 81
p0 −0.1062 ± 0.1242
pull
Entries 82
Mean 356.3
Std Dev 0

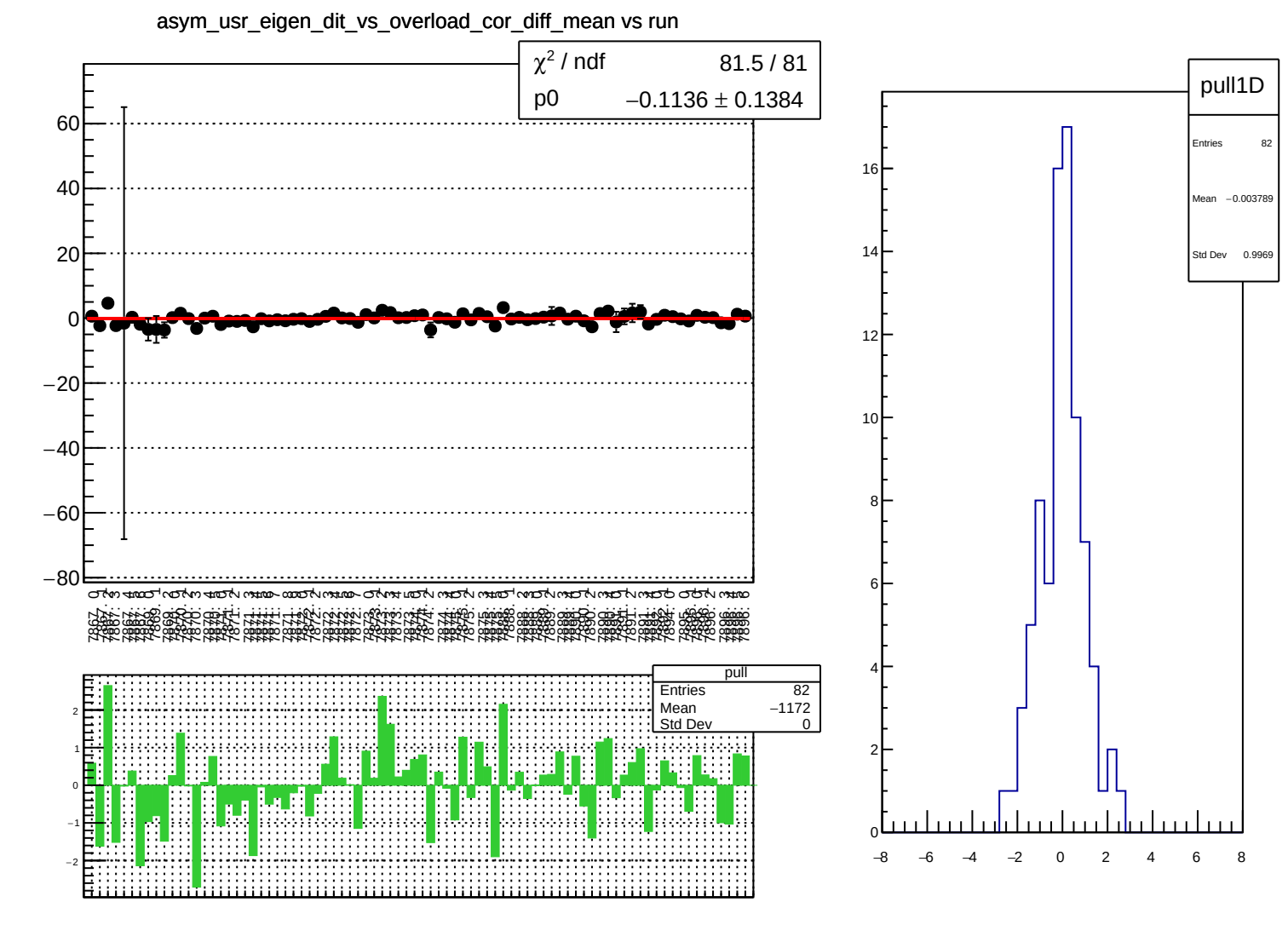

pull1D
Entries 82
Mean 0.01315
Std Dev 0.9835

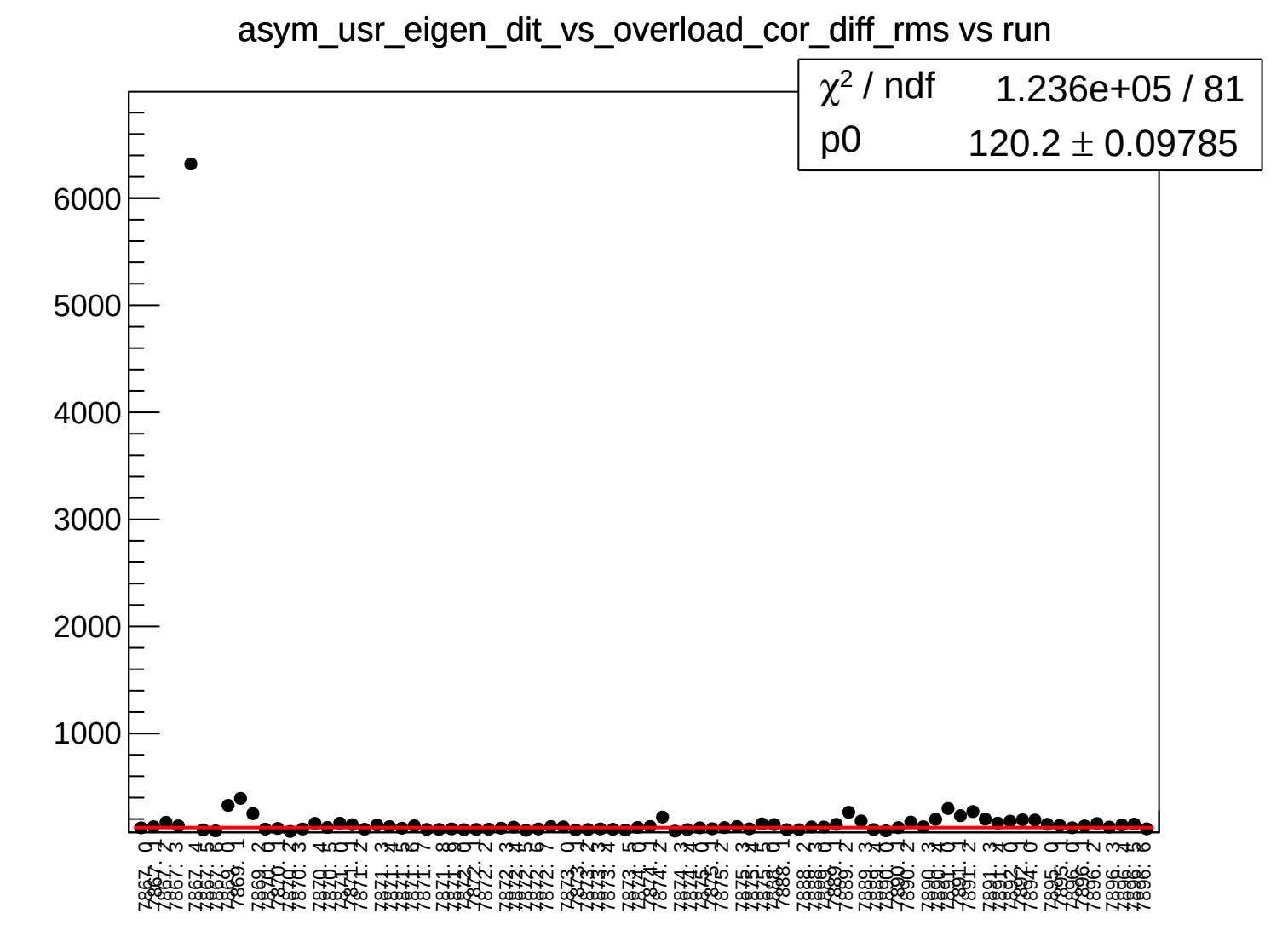

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.482e+05 / 81
p0 107 ± 0.08781
400
350
300
250
200
150
100
50

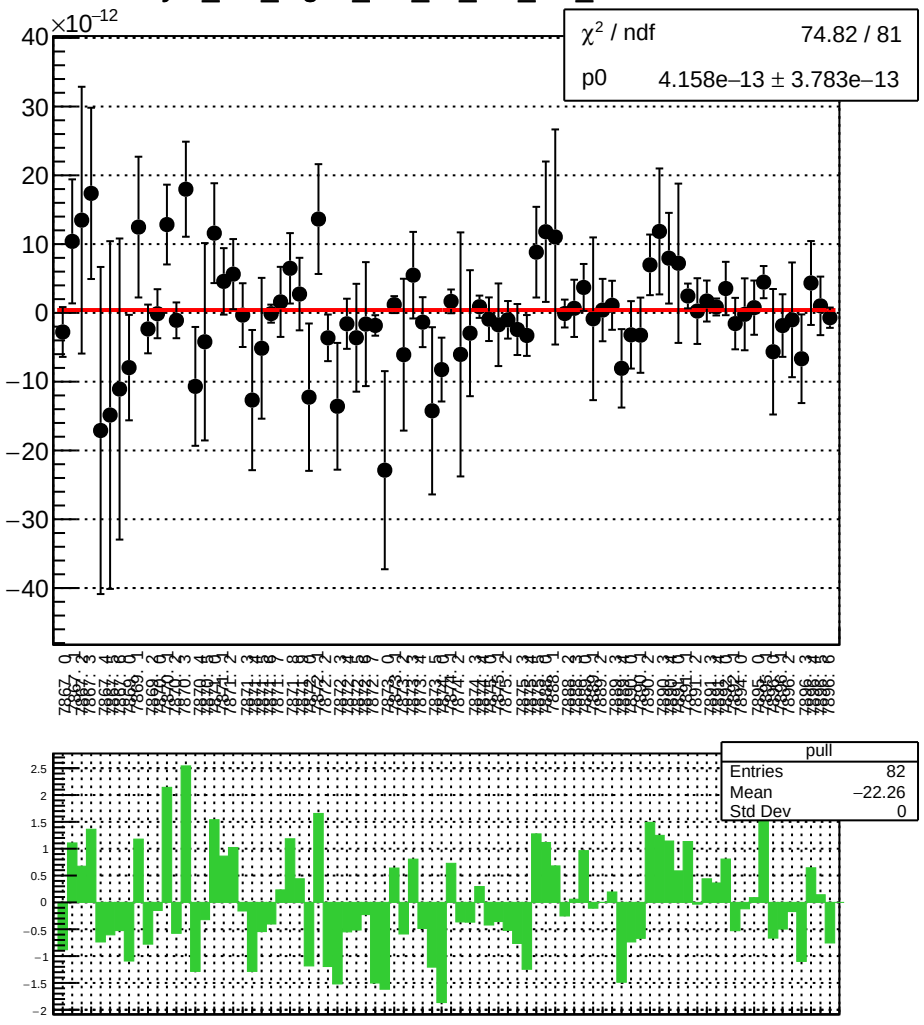

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.33 / 81
p0 −0.1062 ± 0.1242
pull
Entries 82
Mean 356.3
Std Dev 0

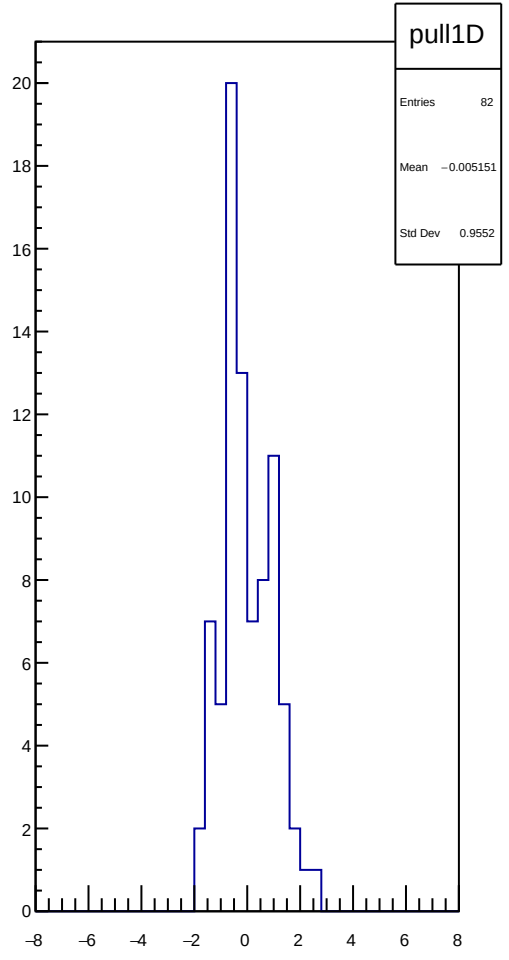

pull1D
Entries 82
Mean 0.01315
Std Dev 0.9835

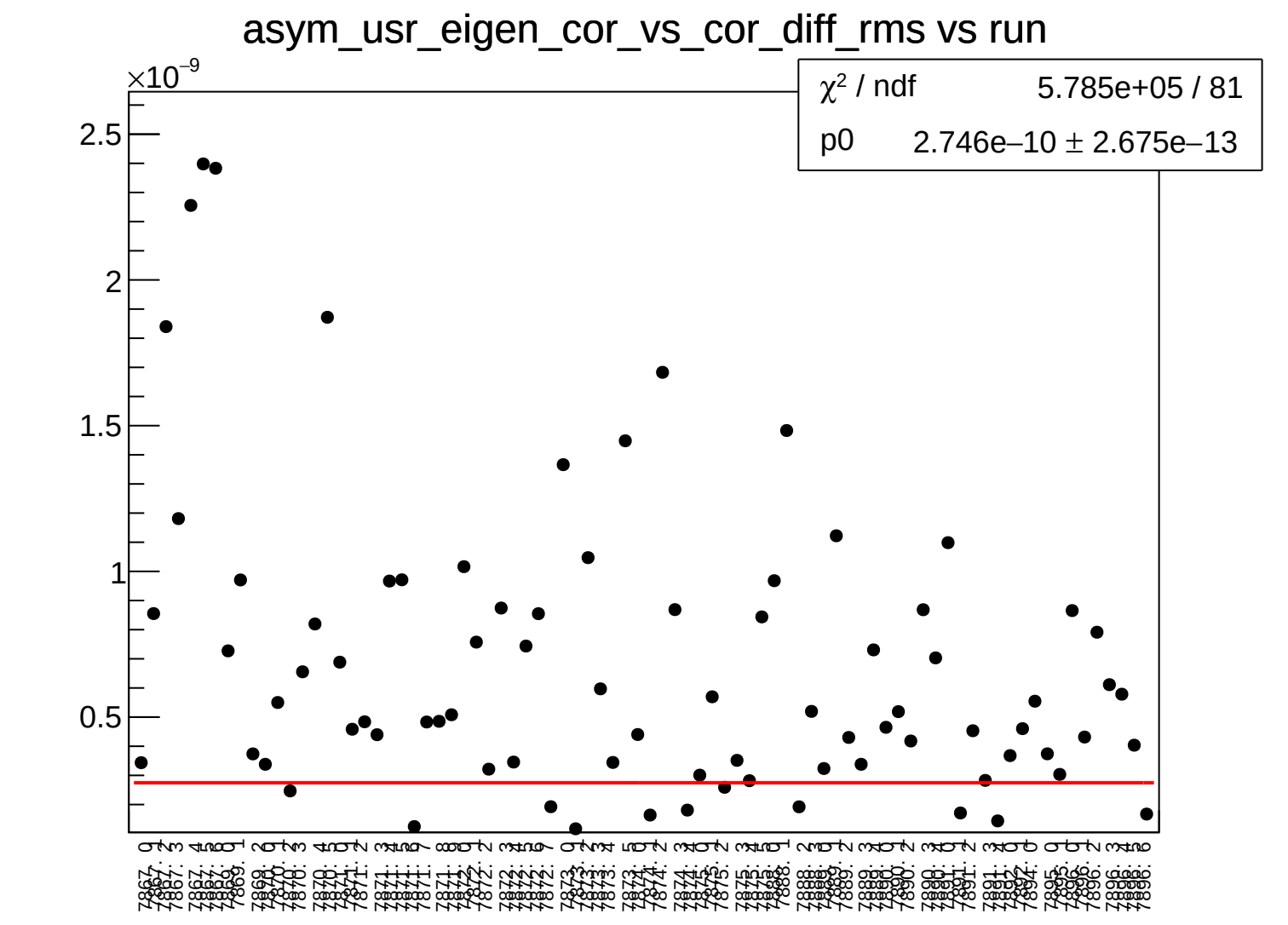

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.482e+05 / 81
p0 107 ± 0.08781
400
350
300
250
200
150
100
50

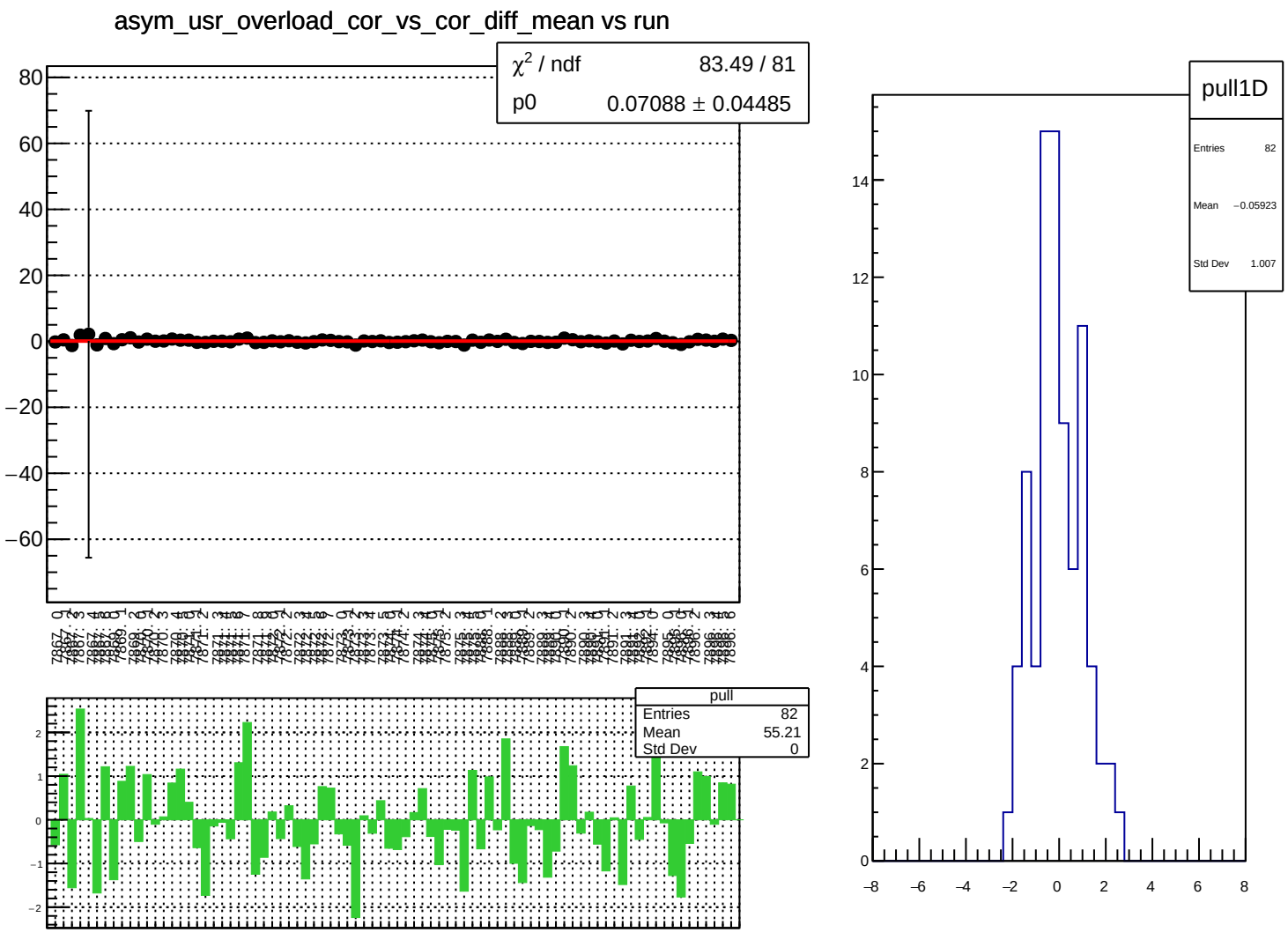

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 81.5 / 81
p0 −0.1136 ± 0.1384
pull
Entries 82
Mean −1172
Std Dev 0
pull1D
Entries 82
Mean −0.003789
Std Dev 0.9969

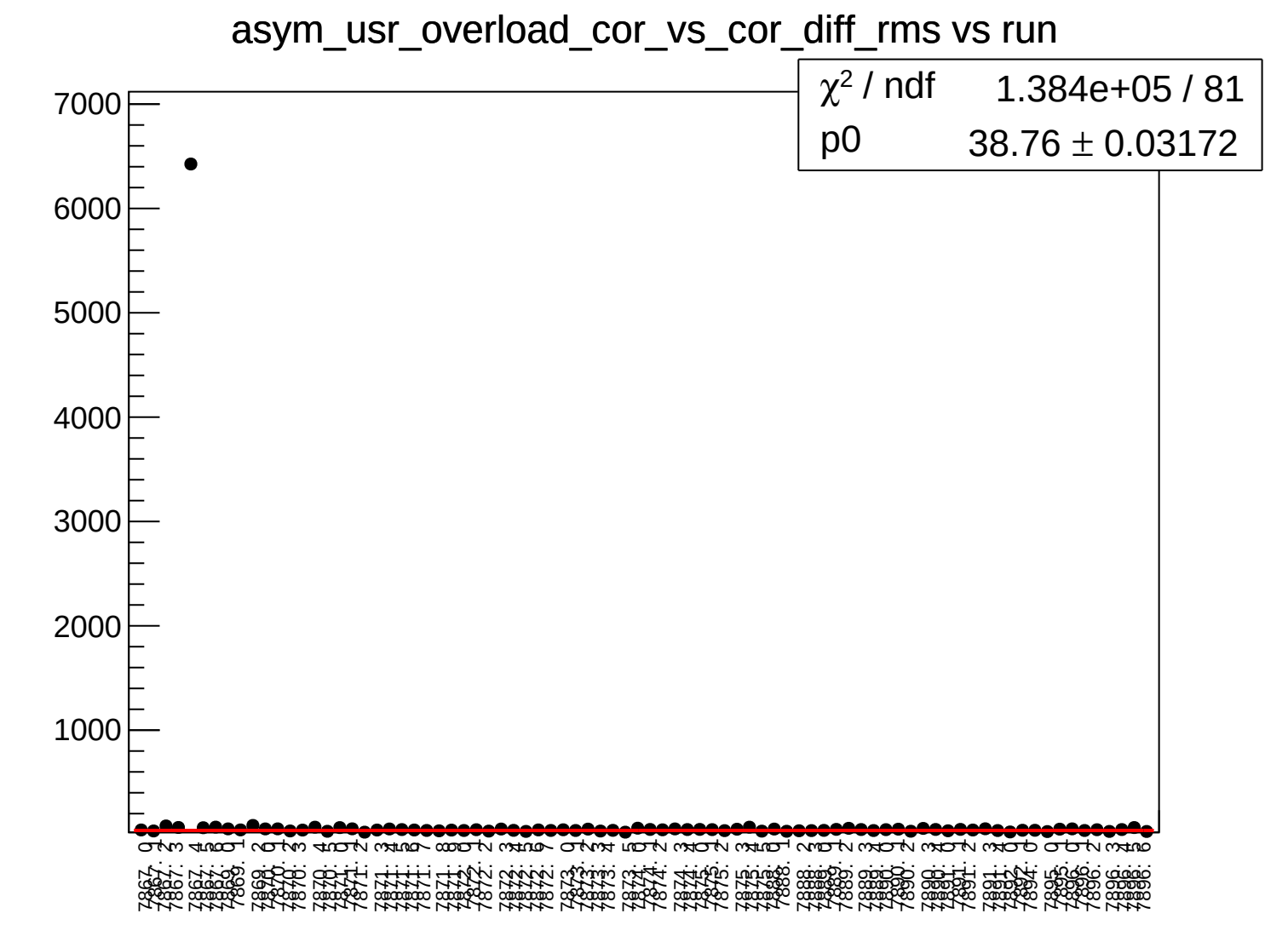

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.236e+05 / 81
p0 120.2 ± 0.09785
6000
5000
4000
3000
2000
1000

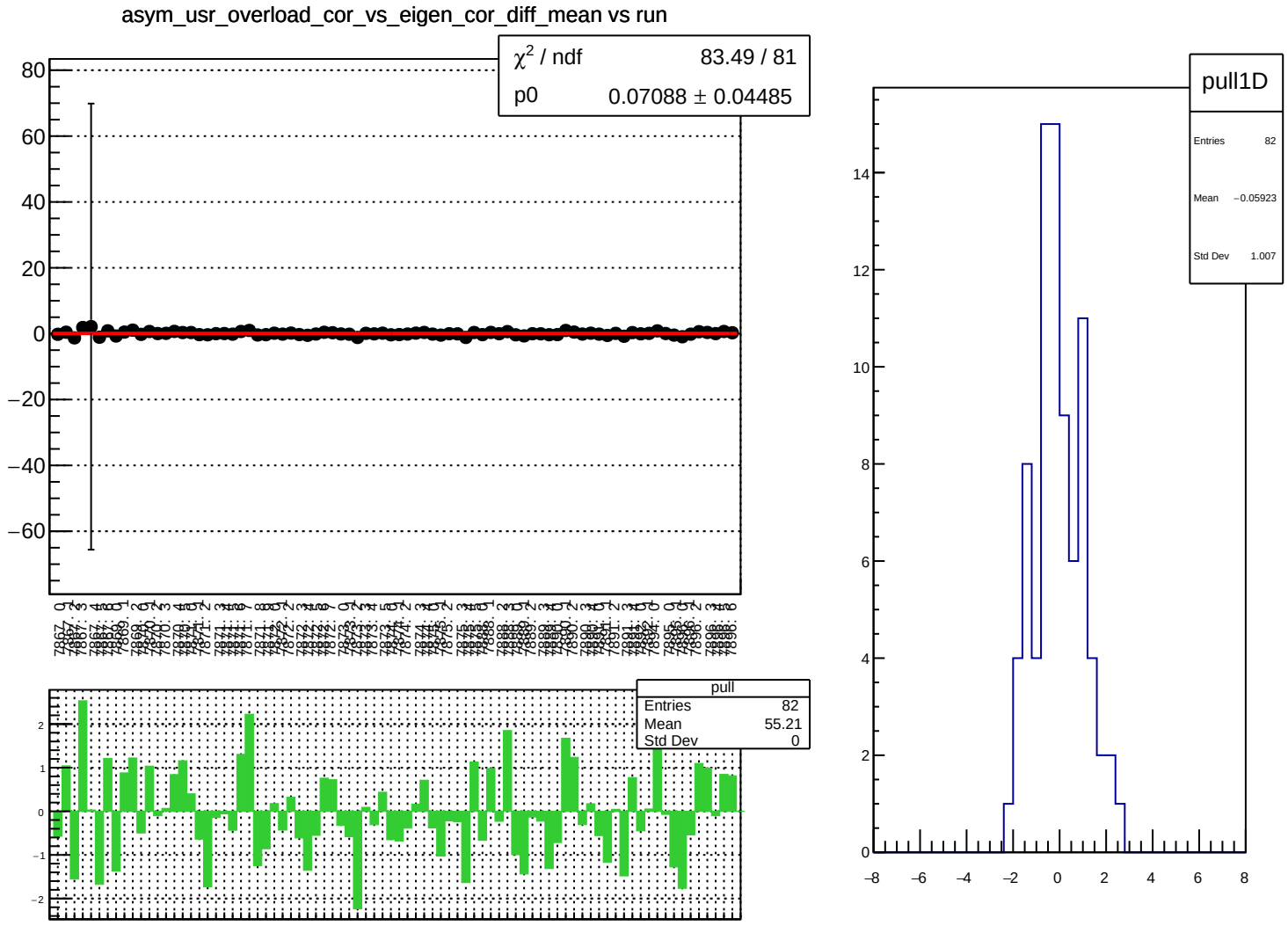

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.82 / 81
p0 4.158e−13 ± 3.783e−13
pull
Entries 82
Mean −22.26
Std Dev 0

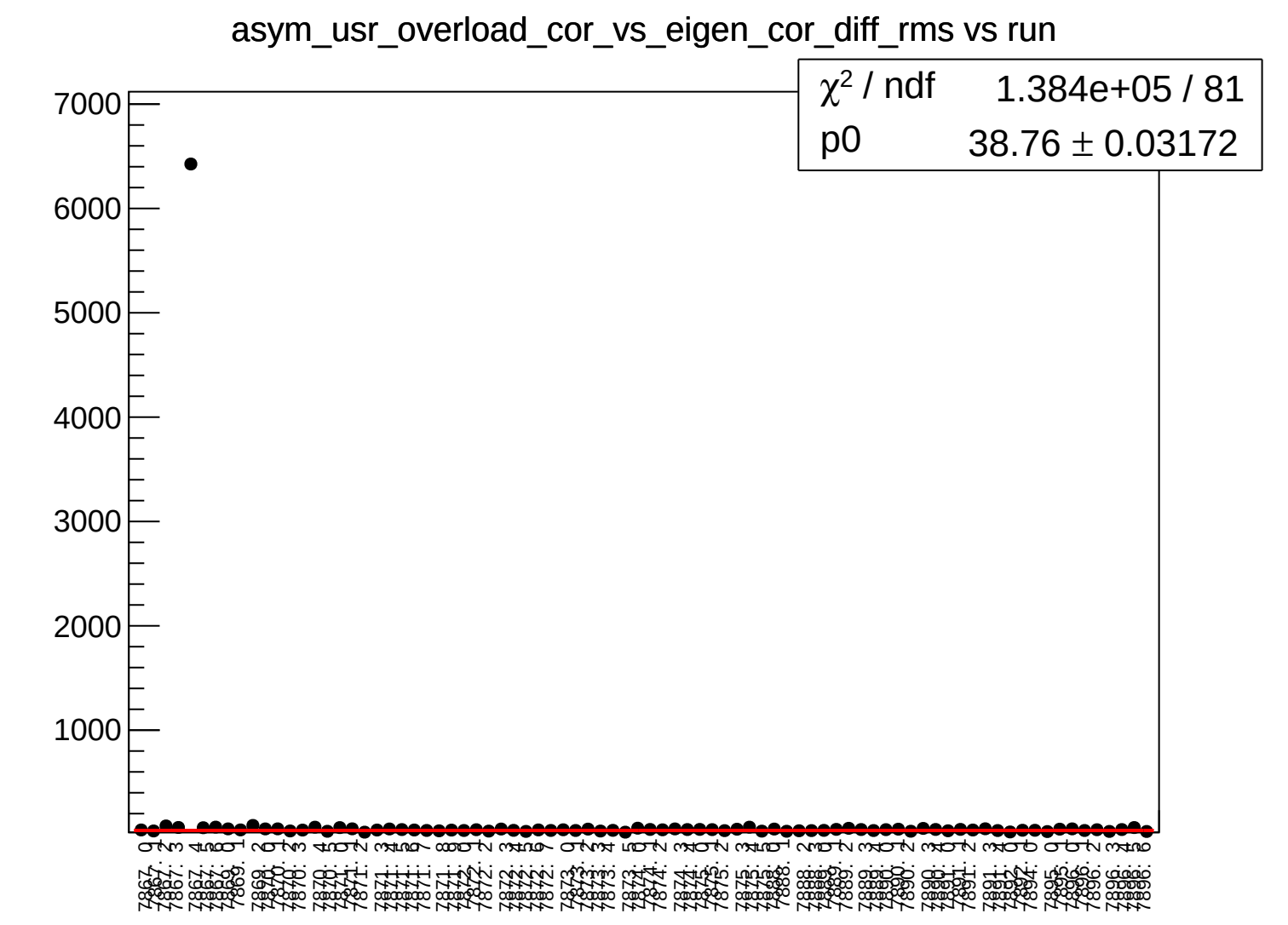

pull1D
Entries 82
Mean −0.005151
Std Dev 0.9552

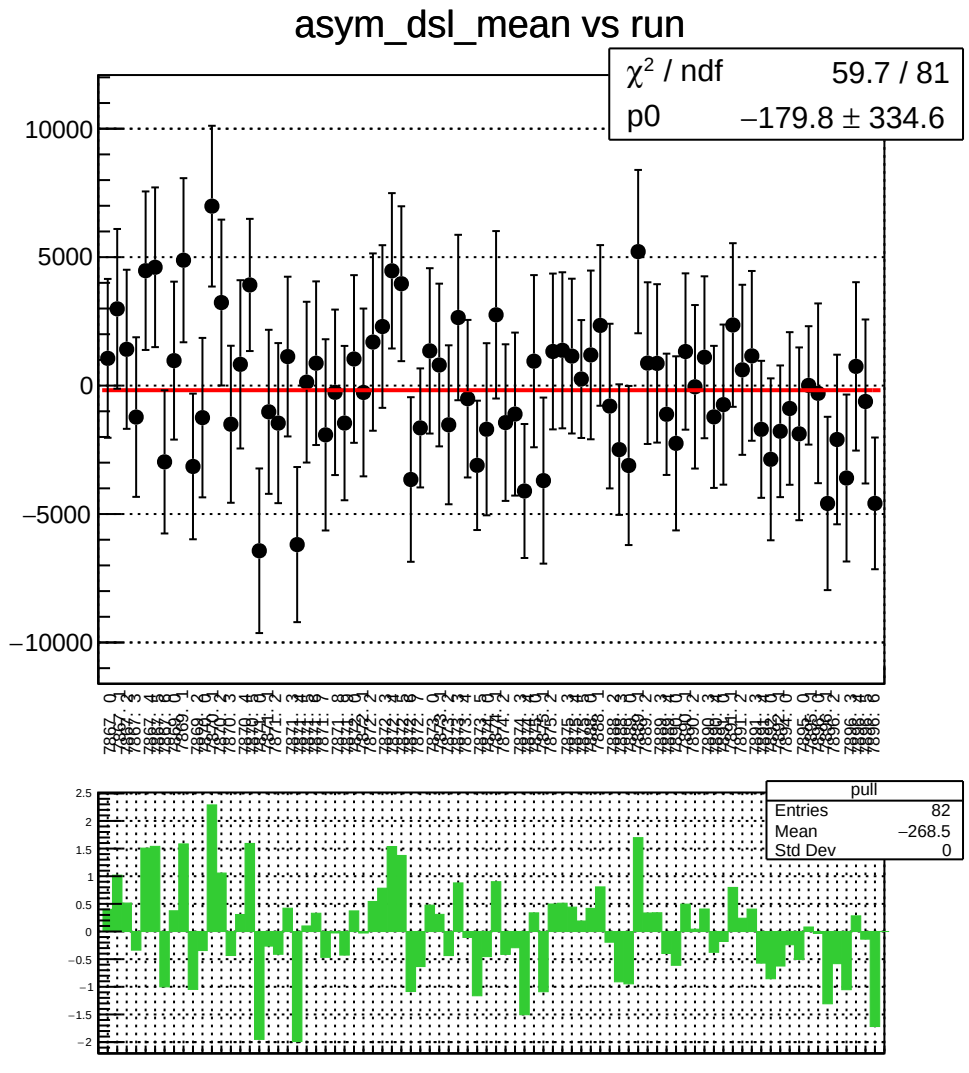

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.785e+05 / 81
p0 2.746e−10 ± 2.675e−13
2.5
2
1.5
1
0.5

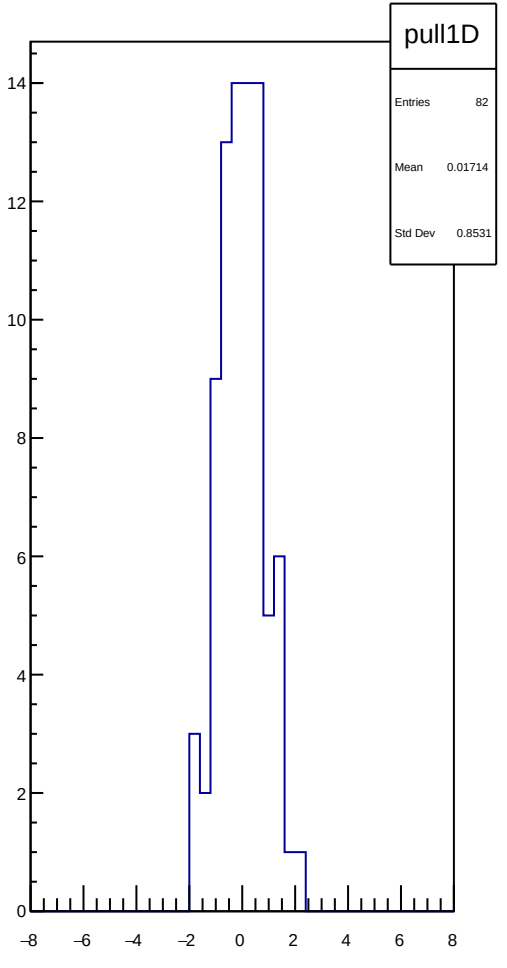

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 83.49 / 81
p0 0.07088 ± 0.04485
pull
Entries 82
Mean 55.21
Std Dev 0
pull1D
Entries 82
Mean −0.05923
Std Dev 1.007

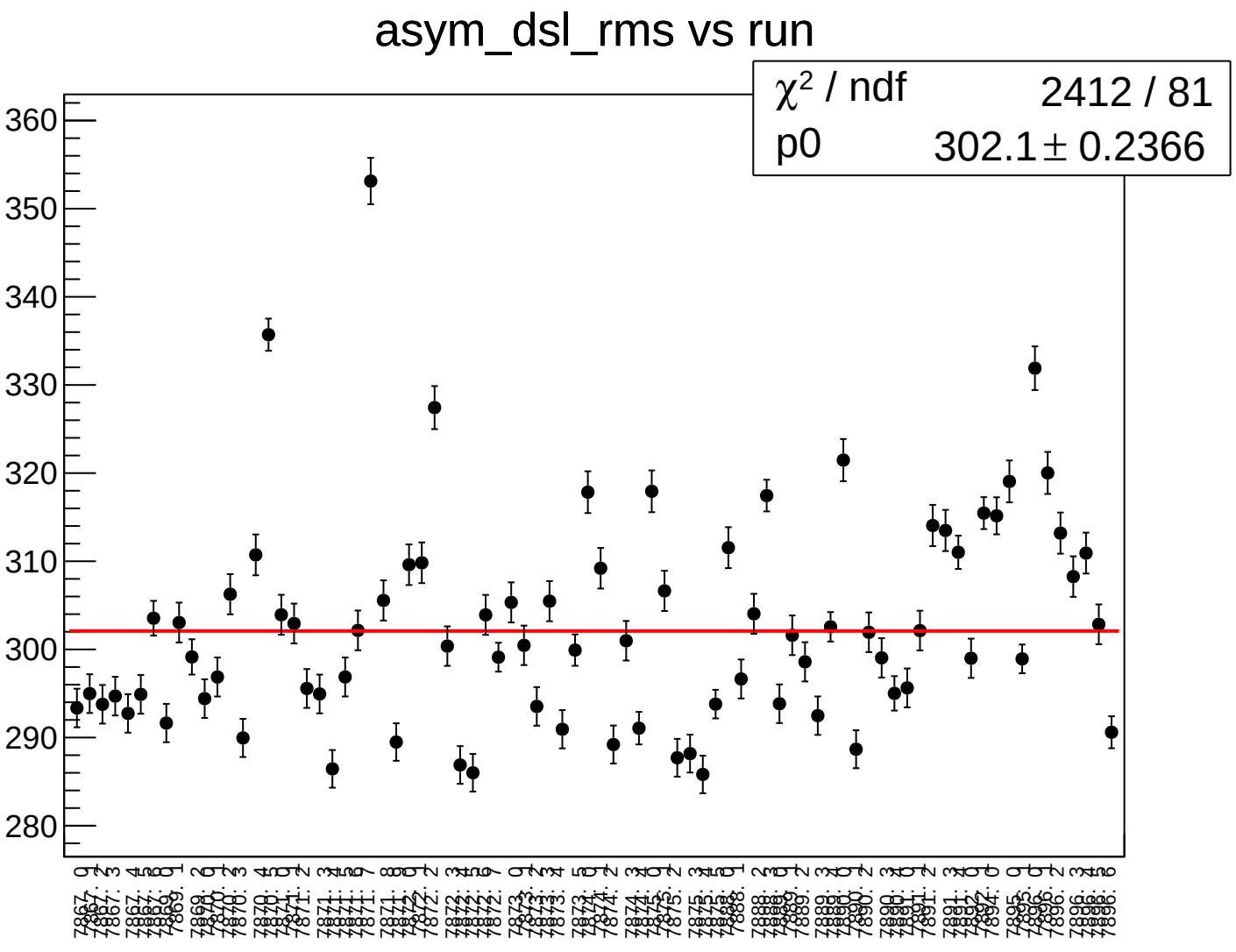

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.384e+05 / 81
p0 38.76 ± 0.03172
7000
6000
5000
4000
3000
2000
1000

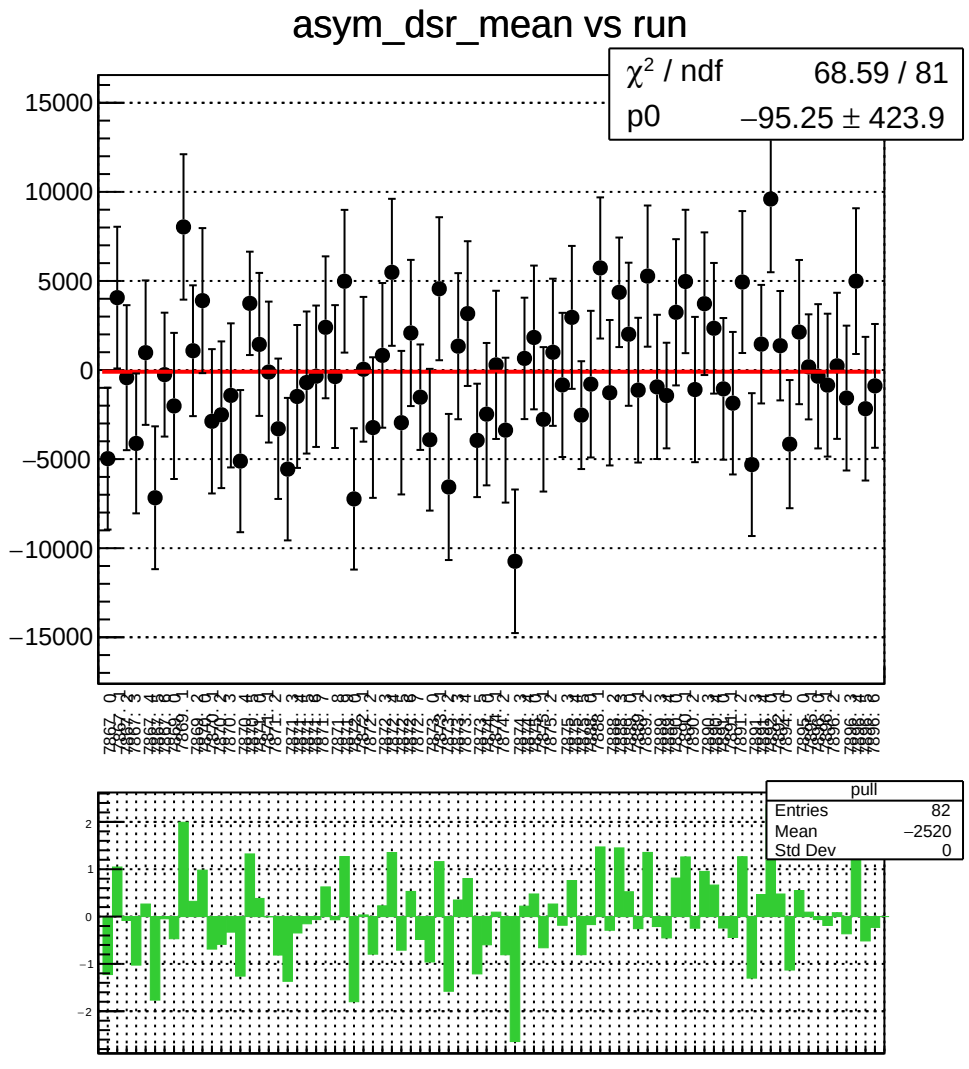

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.49 / 81
p0 0.07088 ± 0.04485
pull
Entries 82
Mean 55.21
Std Dev 0
pull1D
Entries 82
Mean −0.05923
Std Dev 1.007

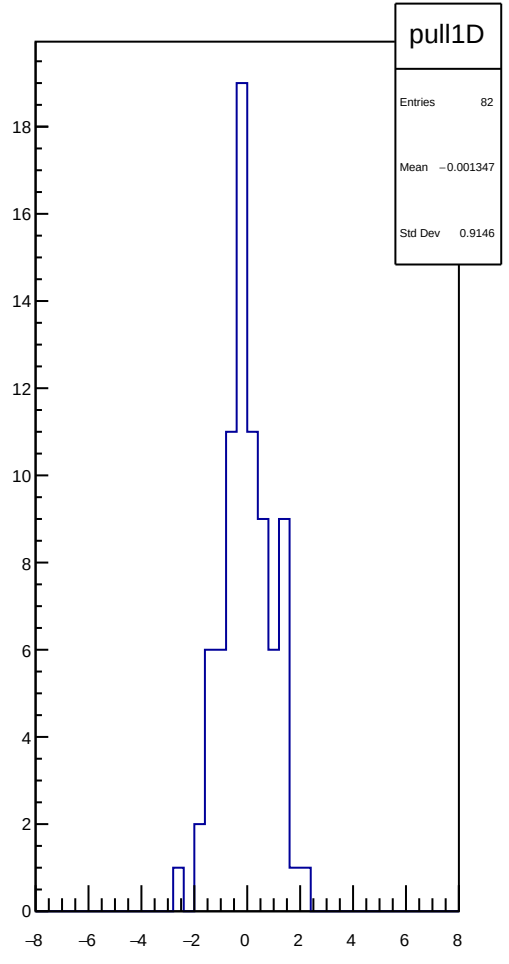

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.384e+05 / 81
p0 38.76 ± 0.03172
7000
6000
5000
4000
3000
2000
1000

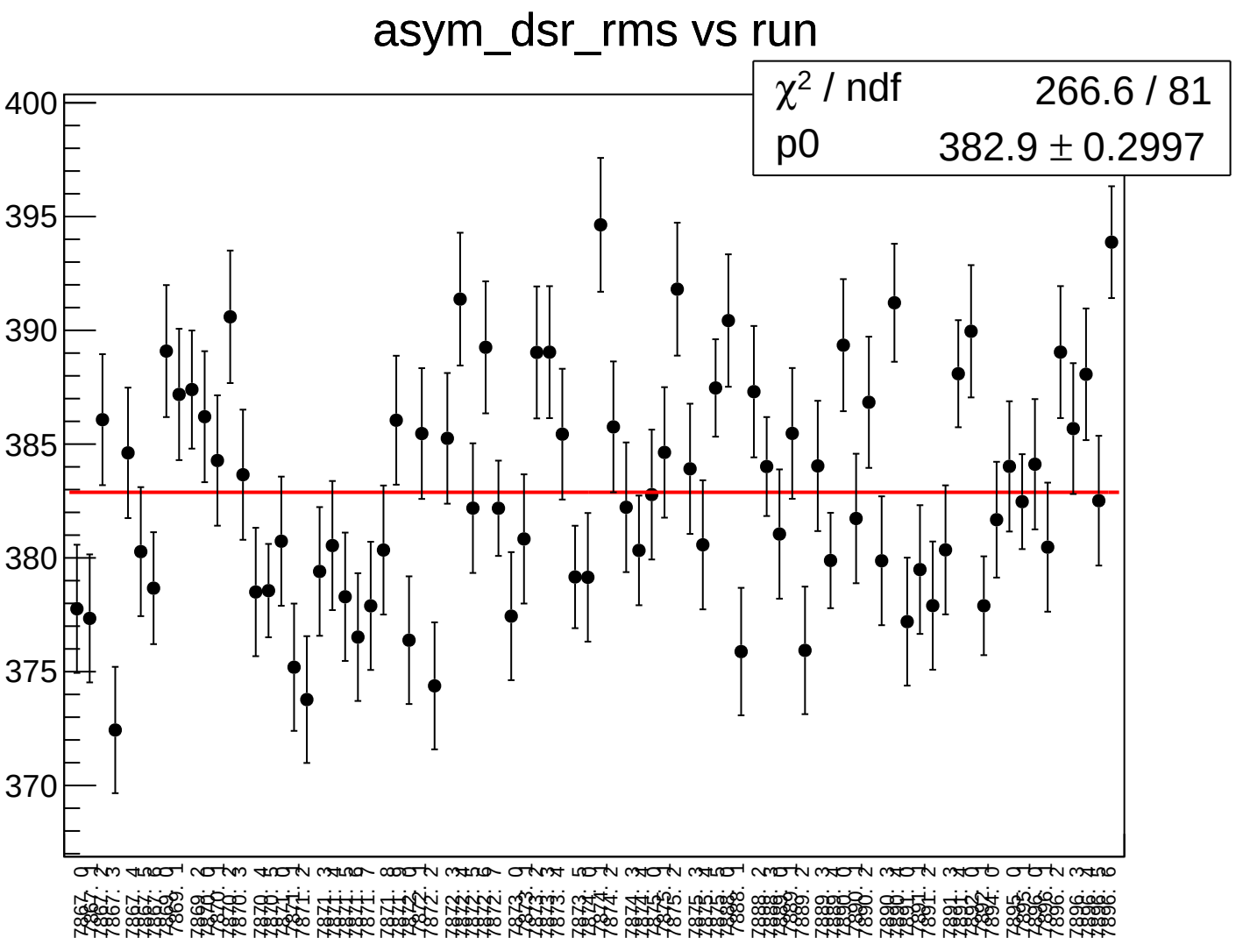

asym_dsl_mean vs run
χ² / ndf 59.7 / 81
p0 −179.8 ± 334.6
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −268.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

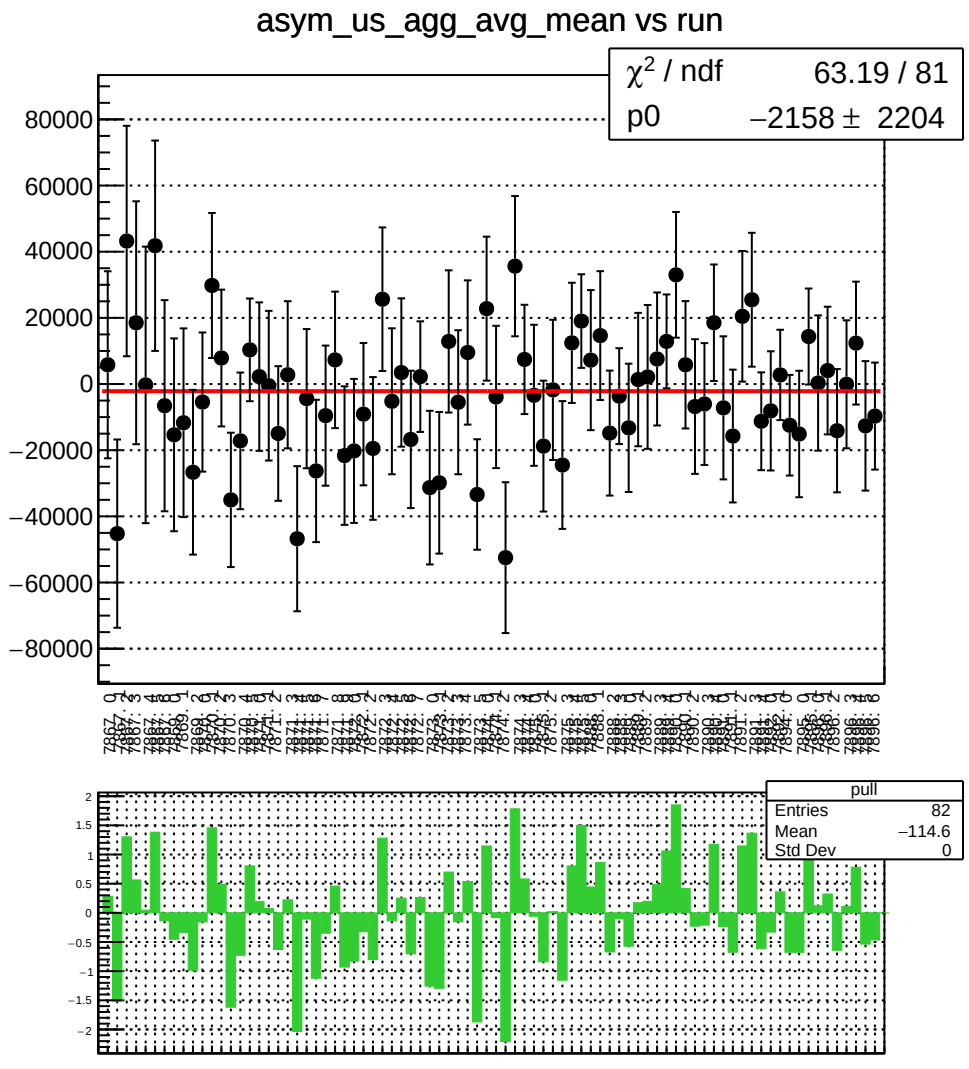

pull1D
Entries 82
Mean 0.01714
Std Dev 0.8531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

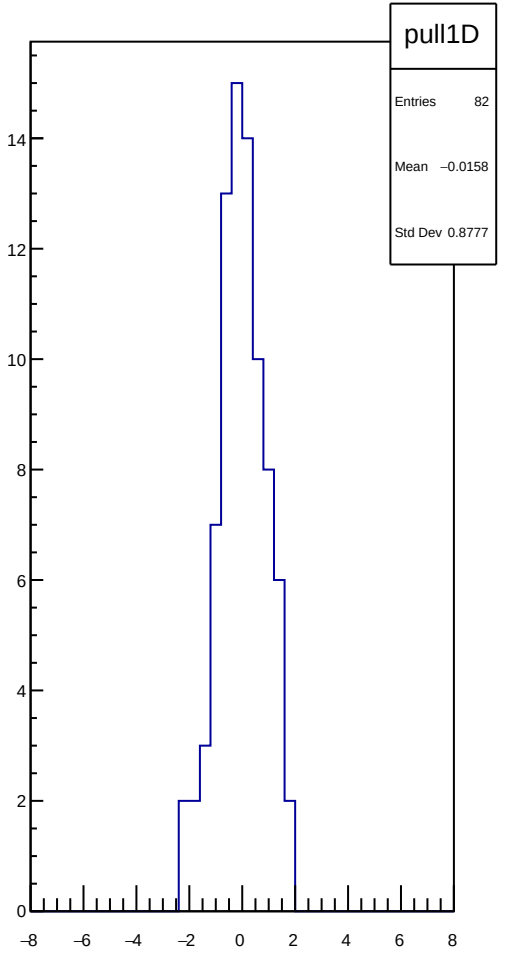

asym_dsl_rms vs run
χ² / ndf 2412 / 81
p0 302.1 ± 0.2366
360
350
340
330
320
310
300
290
280

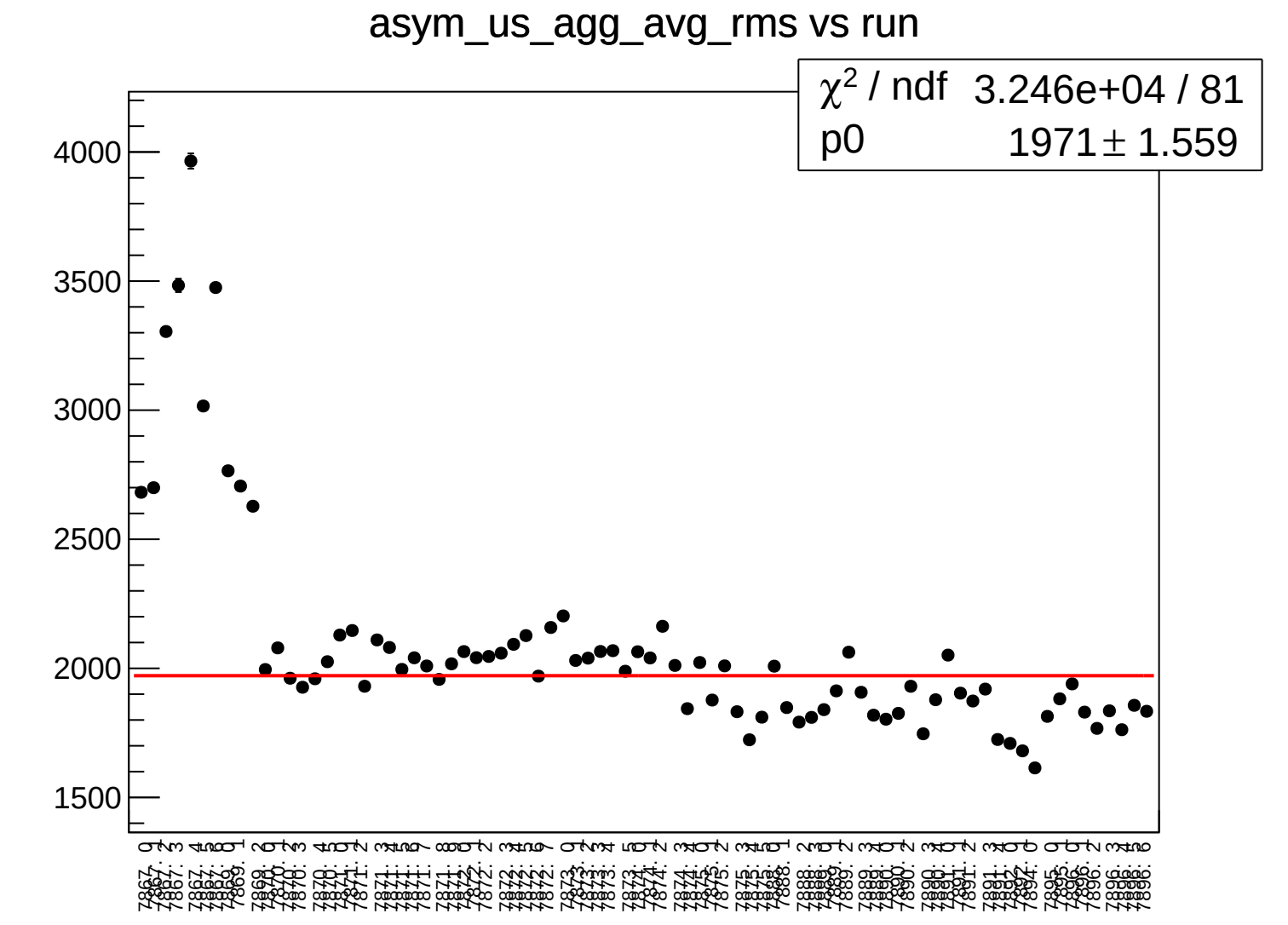

asym_dsr_mean vs run
χ² / ndf 68.59 / 81
p0 −95.25 ± 423.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −2520
Std Dev 0
2
1
0
−1
−2

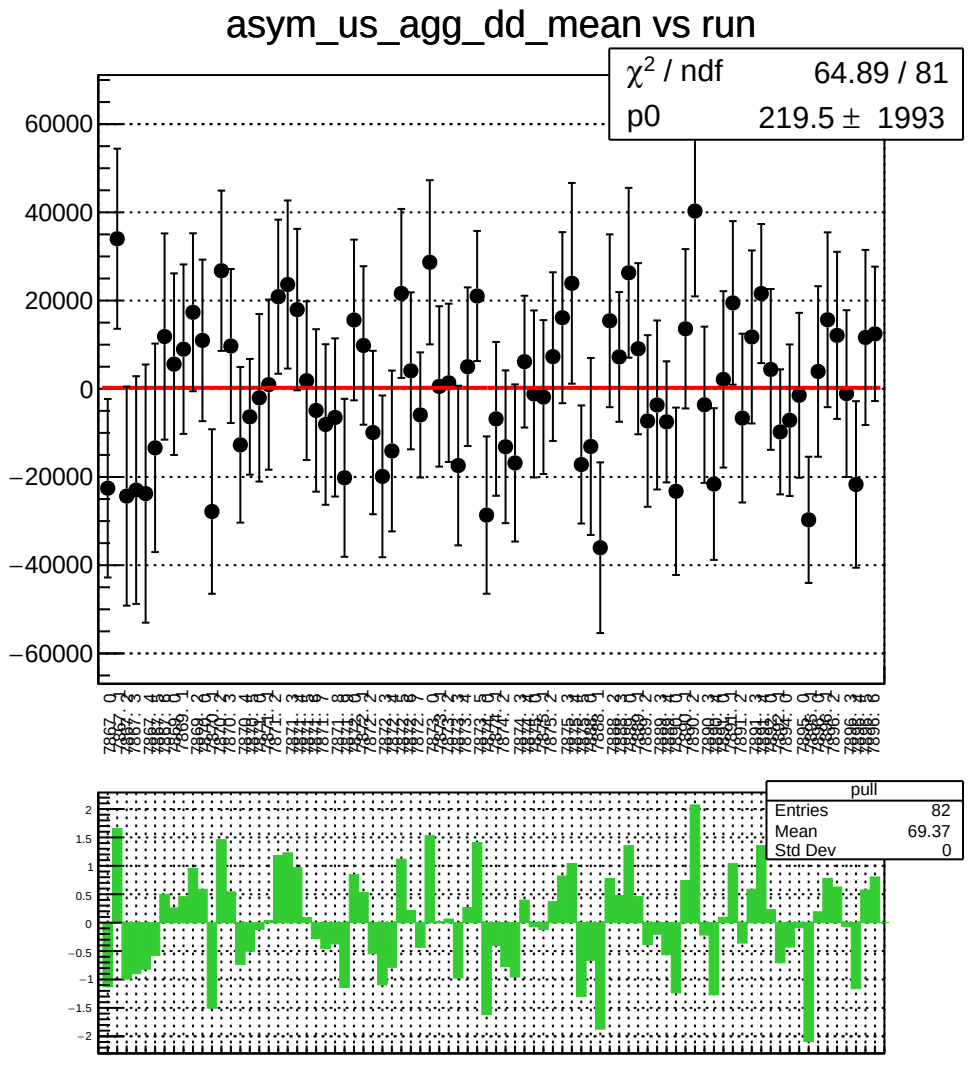

pull1D
Entries 82
Mean −0.001347
Std Dev 0.9146
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

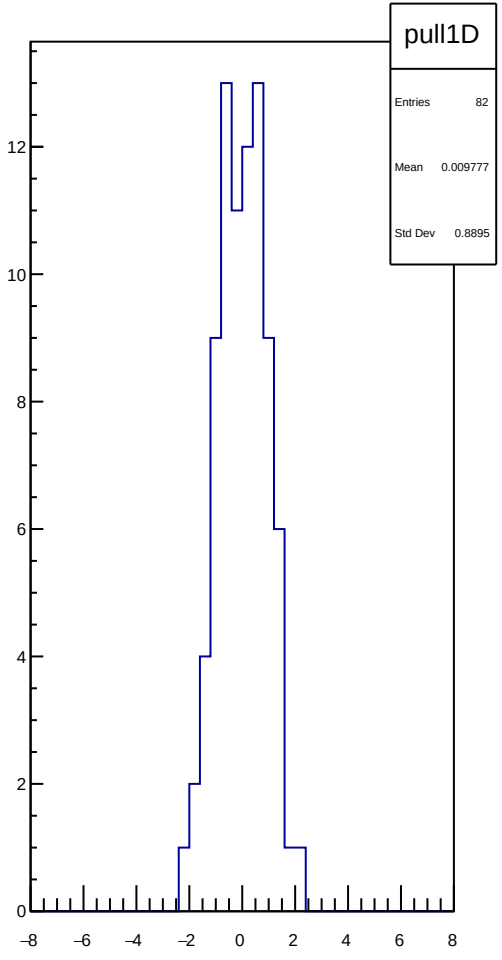

asym_dsr_rms vs run
χ² / ndf 266.6 / 81
p0 382.9 ± 0.2997
400
395
390
385
380
375
370

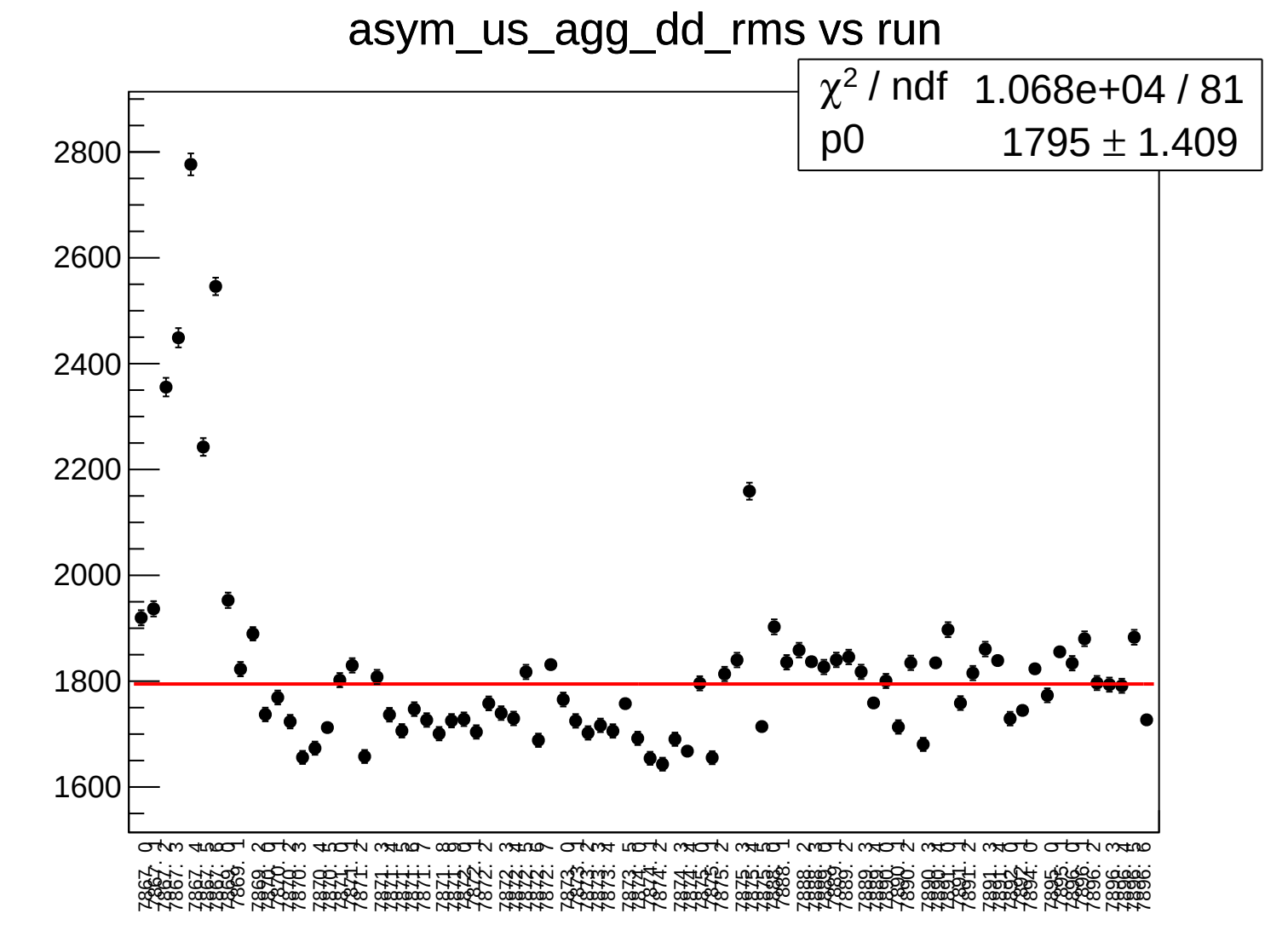

asym_us_agg_avg_mean vs run
χ² / ndf 63.19 / 81
p0 −2158 ± 2204
pull
Entries 82
Mean −114.6
Std Dev 0

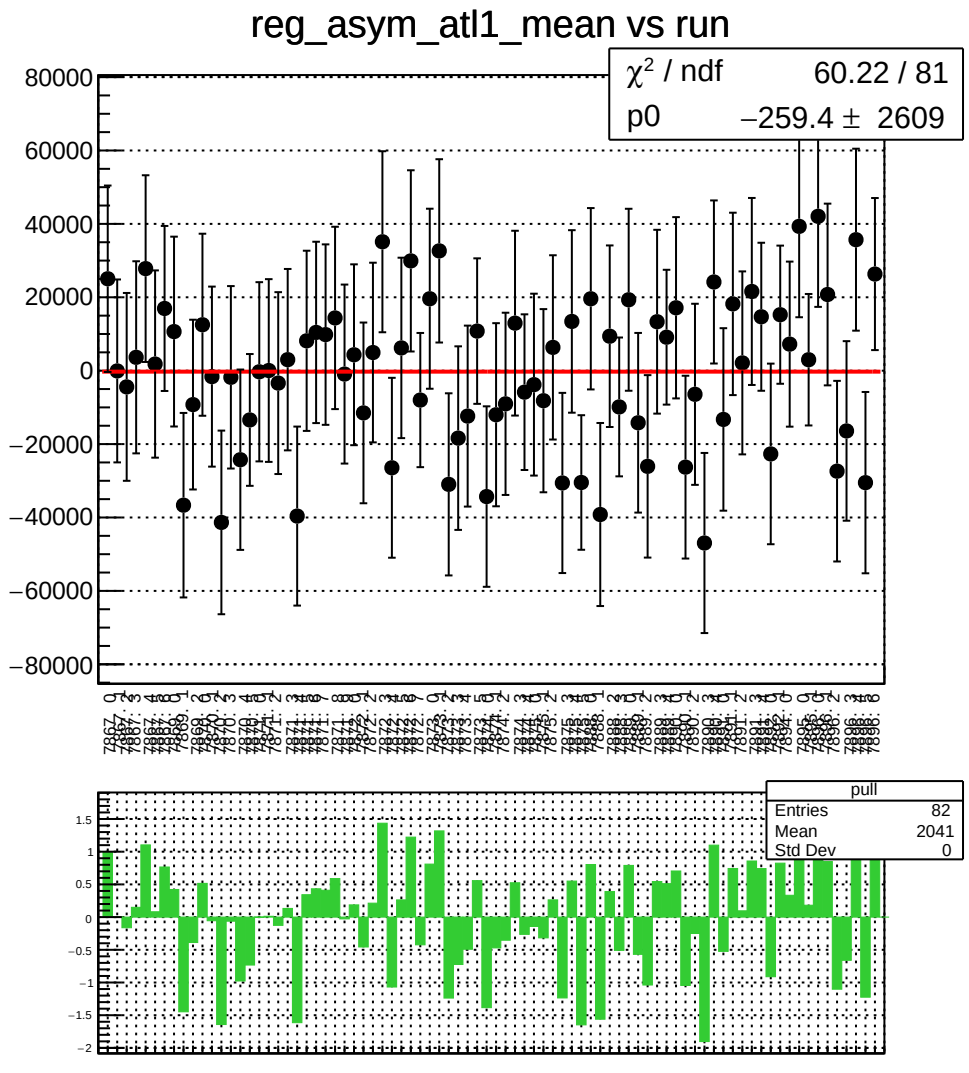

pull1D
Entries 82
Mean −0.0158
Std Dev 0.8777

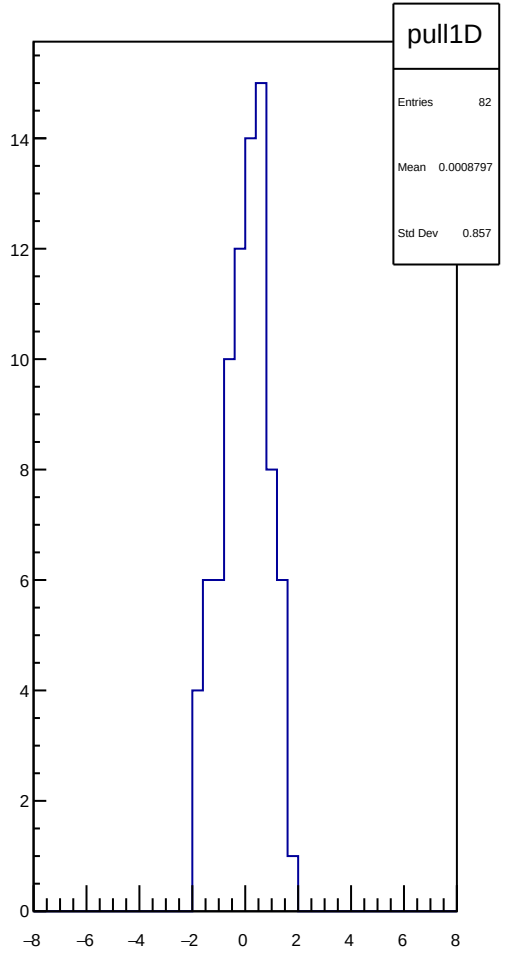

asym_us_agg_avg_rms vs run
χ² / ndf 3.246e+04 / 81
p0 1971 ± 1.559
4000
3500
3000
2500
2000
1500

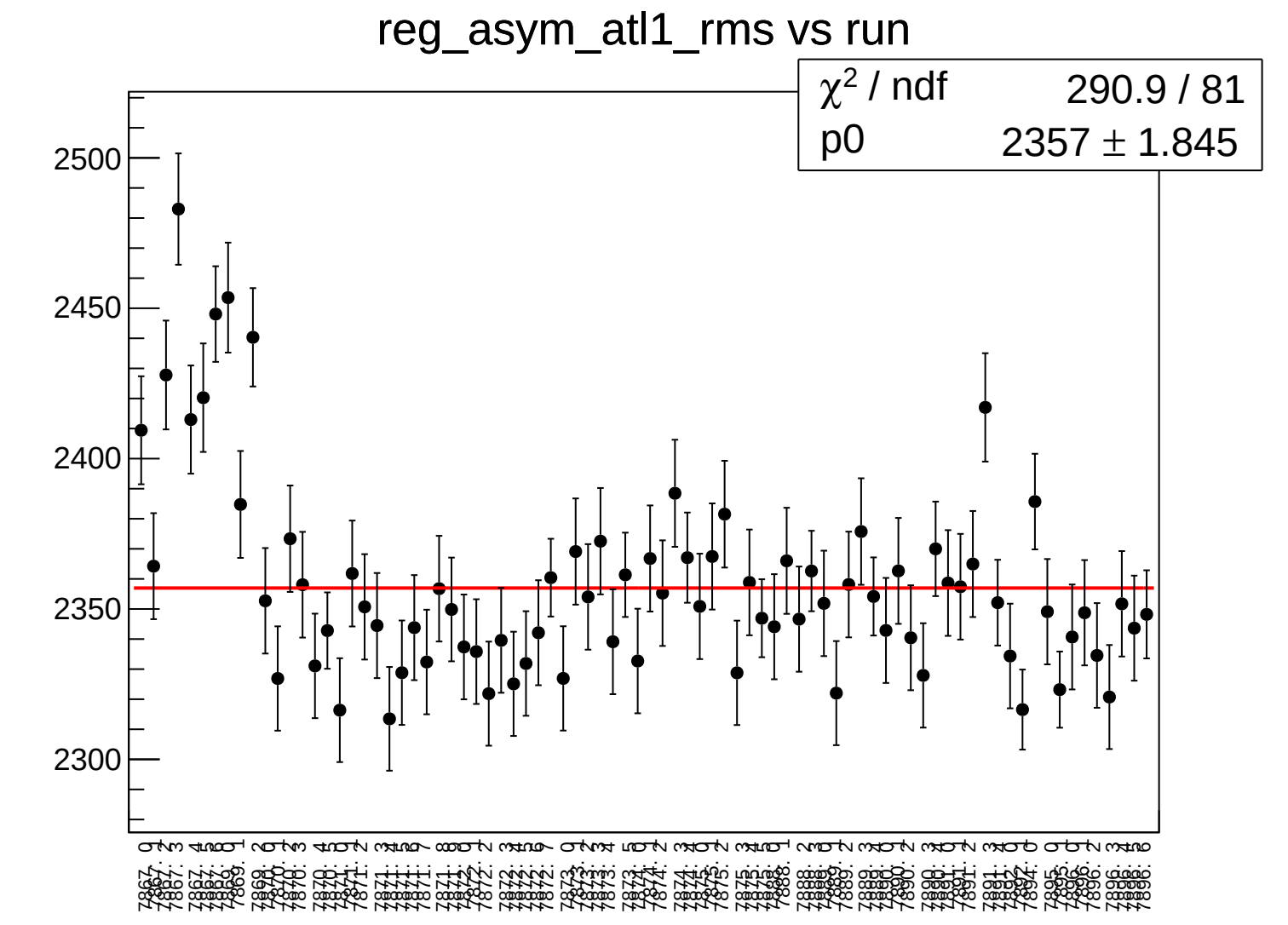

asym_us_agg_dd_mean vs run
χ² / ndf 64.89 / 81
p0 219.5 ± 1993
pull
Entries 82
Mean 69.37
Std Dev 0

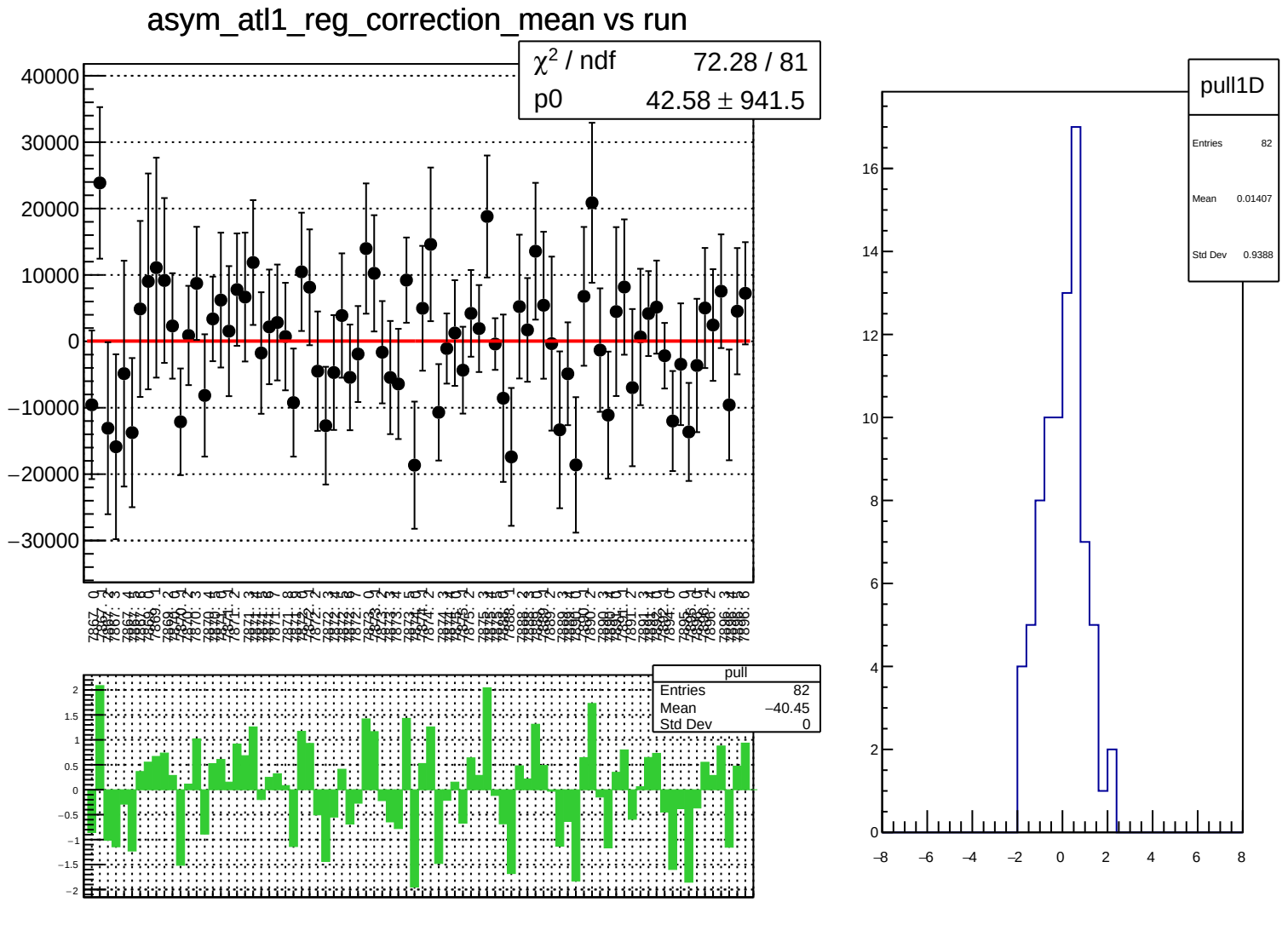

pull1D
Entries 82
Mean 0.009777
Std Dev 0.8895

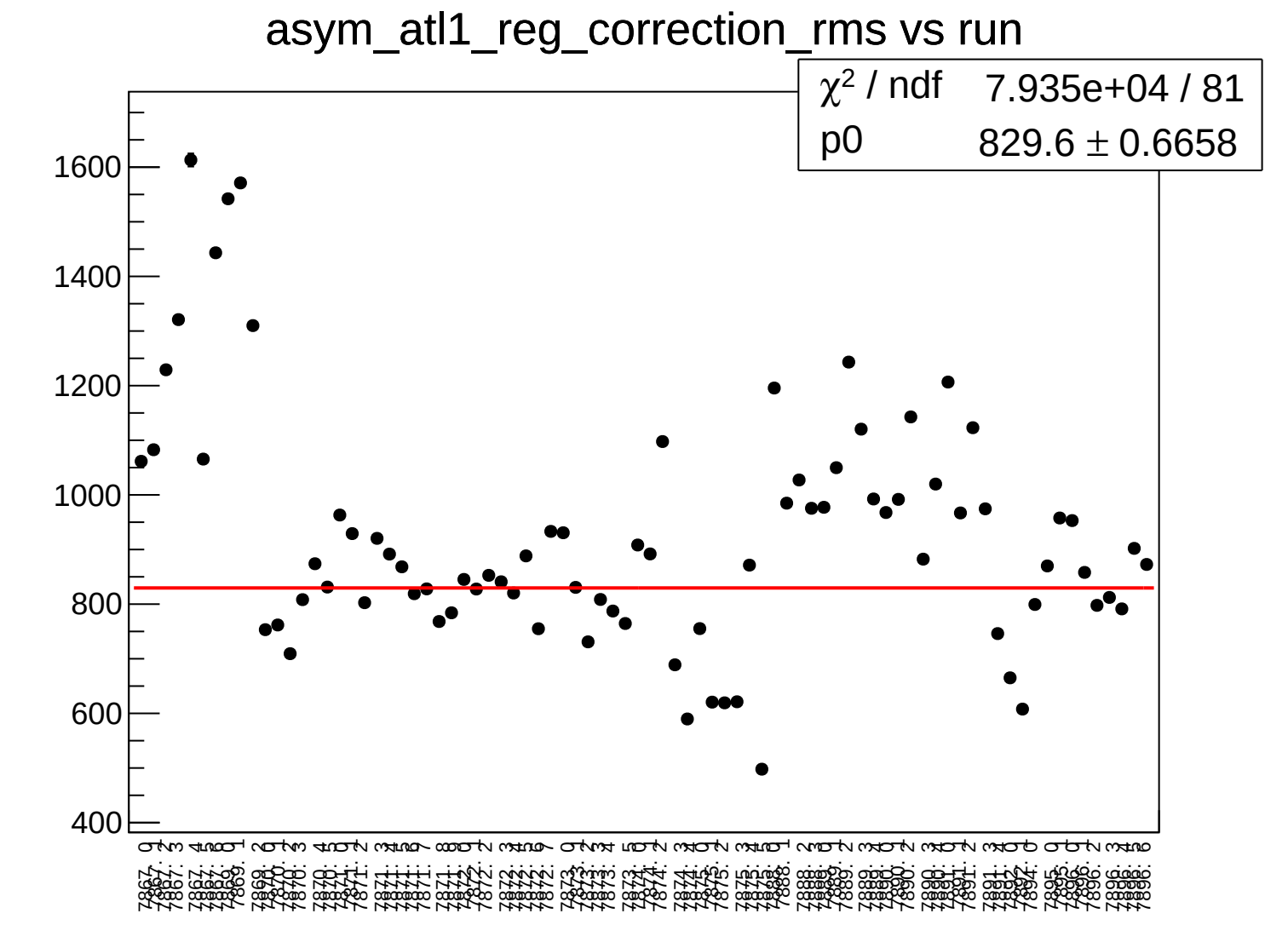

asym_us_agg_dd_rms vs run
χ^2 / ndf 1.068e+04 / 81
p0 1795 ± 1.409
2800
2600
2400
2200
2000
1800
1600

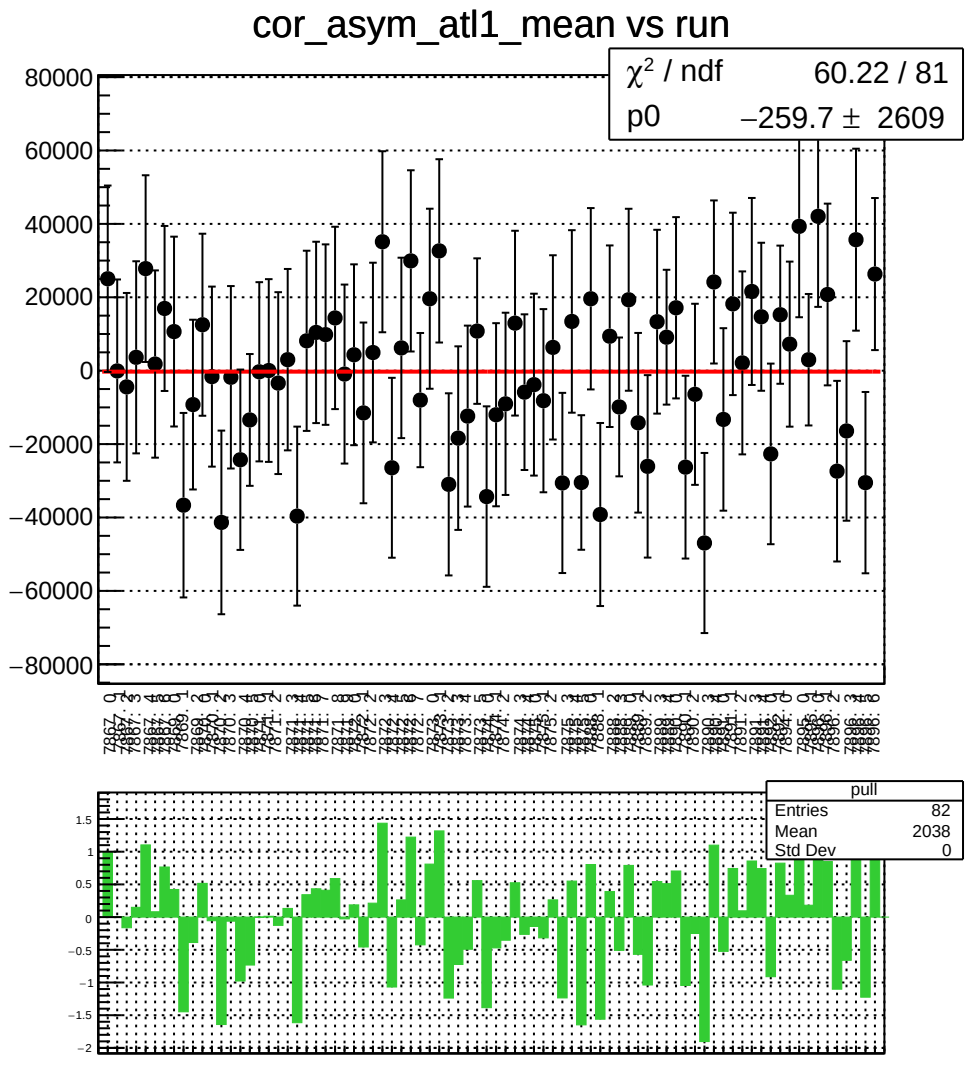

reg_asym_atl1_mean vs run
χ² / ndf 60.22 / 81
p0 −259.4 ± 2609
pull
Entries 82
Mean 2041
Std Dev 0

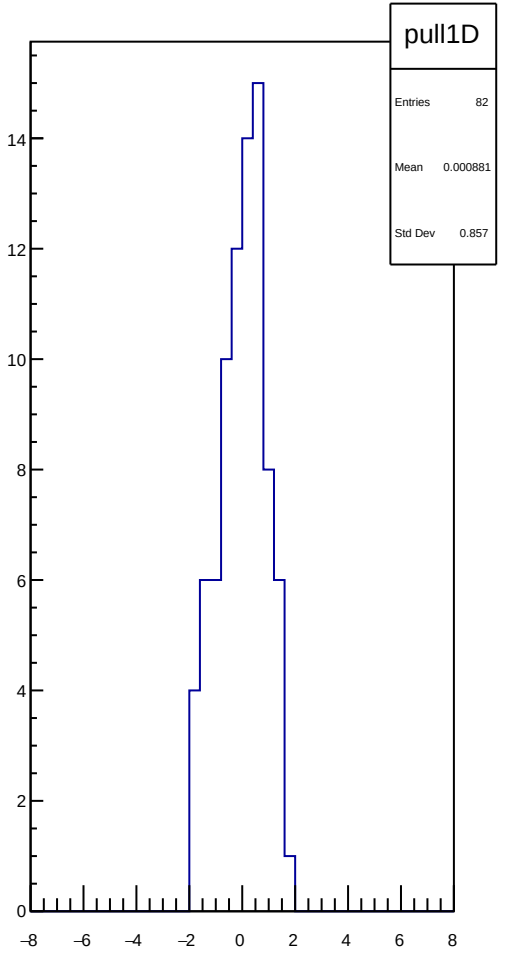

pull1D
Entries 82
Mean 0.0008797
Std Dev 0.857

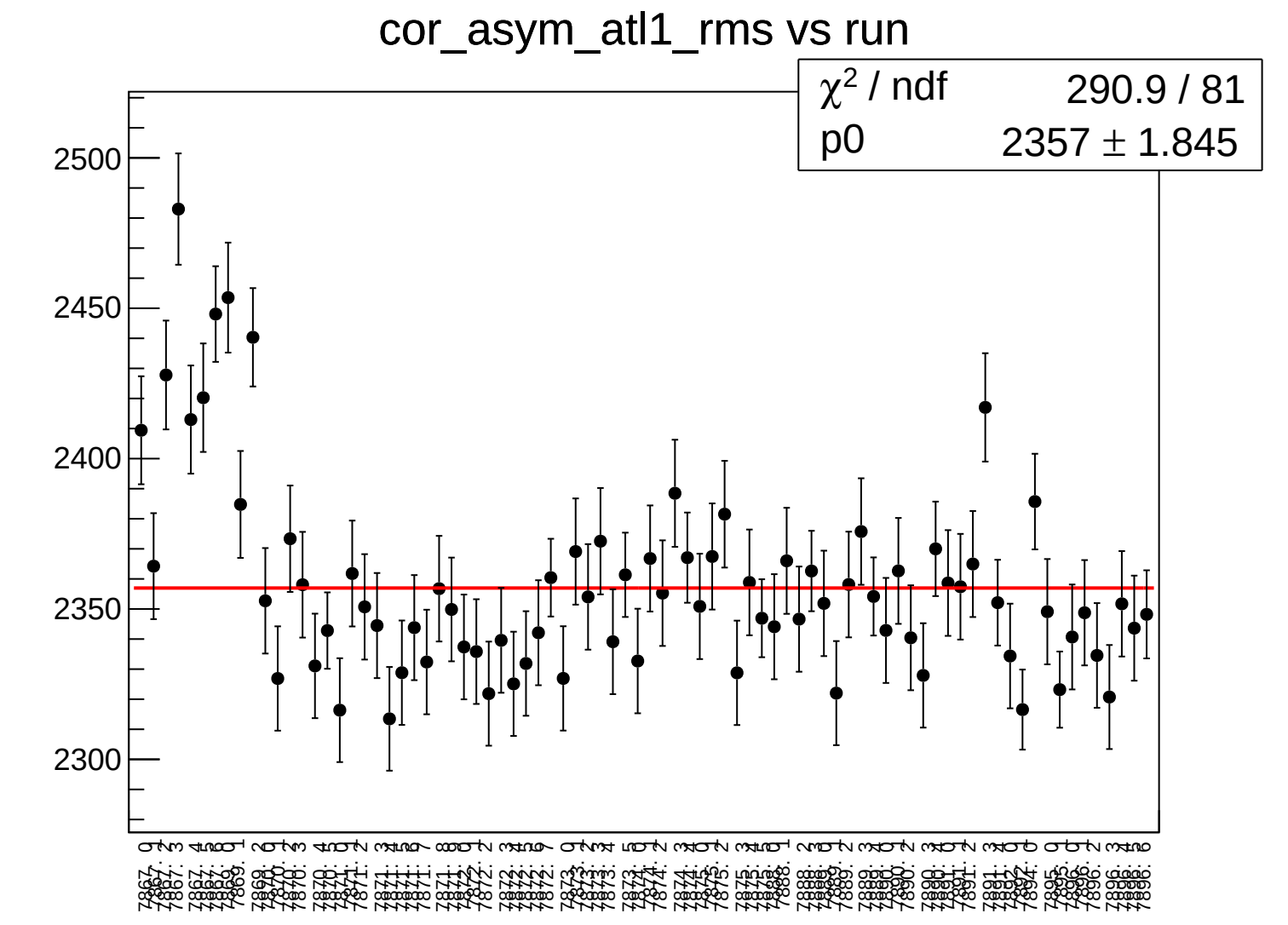

reg_asym_atl1_rms vs run
χ^2 / ndf 290.9 / 81
p0 2357 ± 1.845
2500
2450
2400
2350
2300

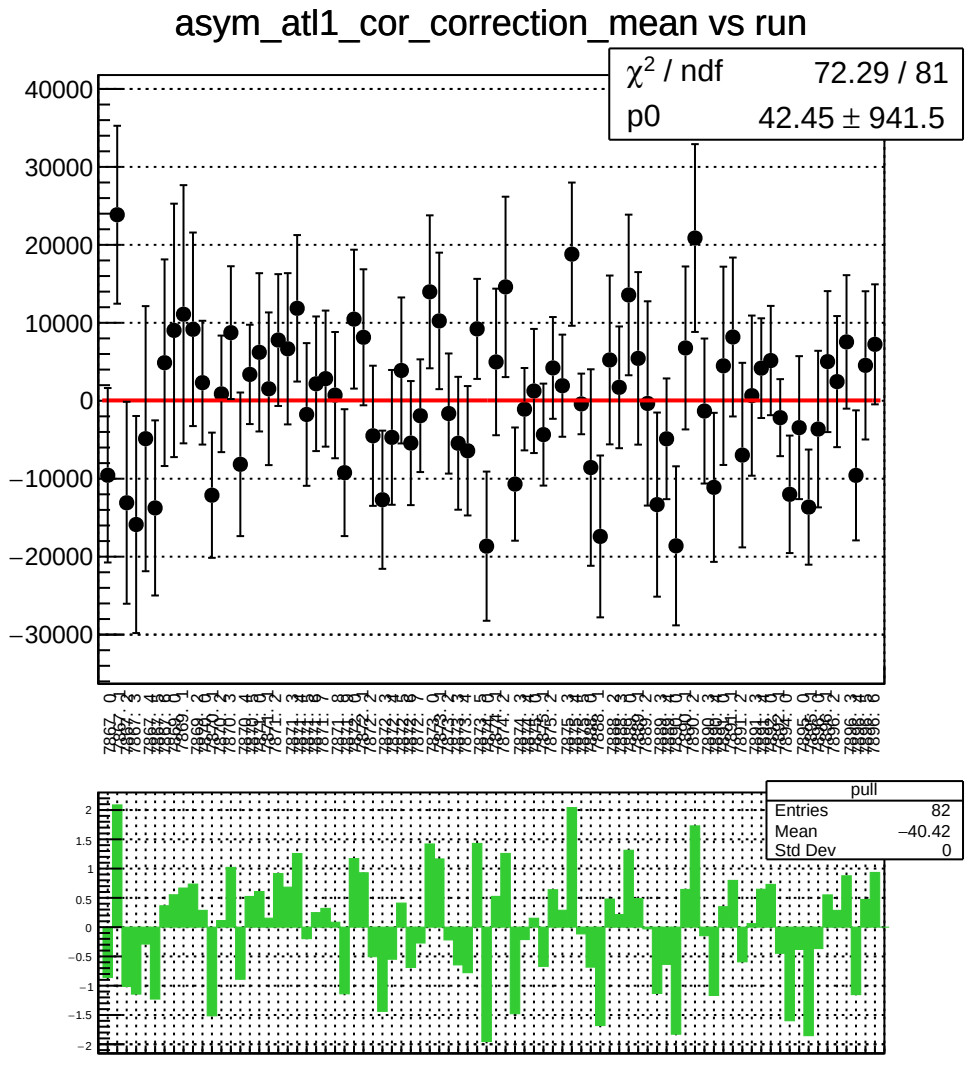

asym_atl1_reg_correction_mean vs run
χ² / ndf 72.28 / 81
p0 42.58 ± 941.5
pull
Entries 82
Mean −40.45
Std Dev 0
pull1D
Entries 82
Mean 0.01407
Std Dev 0.9388

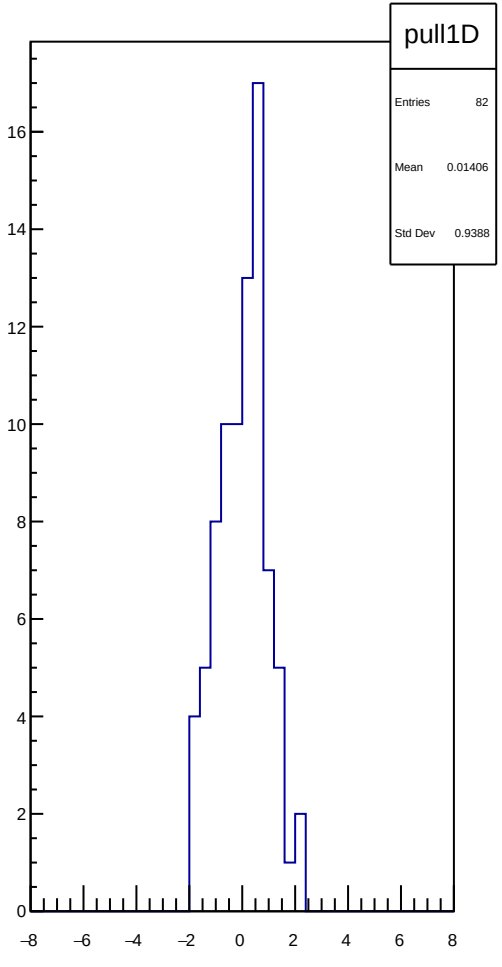

asym_atl1_reg_correction_rms vs run
χ² / ndf 7.935e+04 / 81
p0 829.6 ± 0.6658
1600
1400
1200
1000
800
600
400

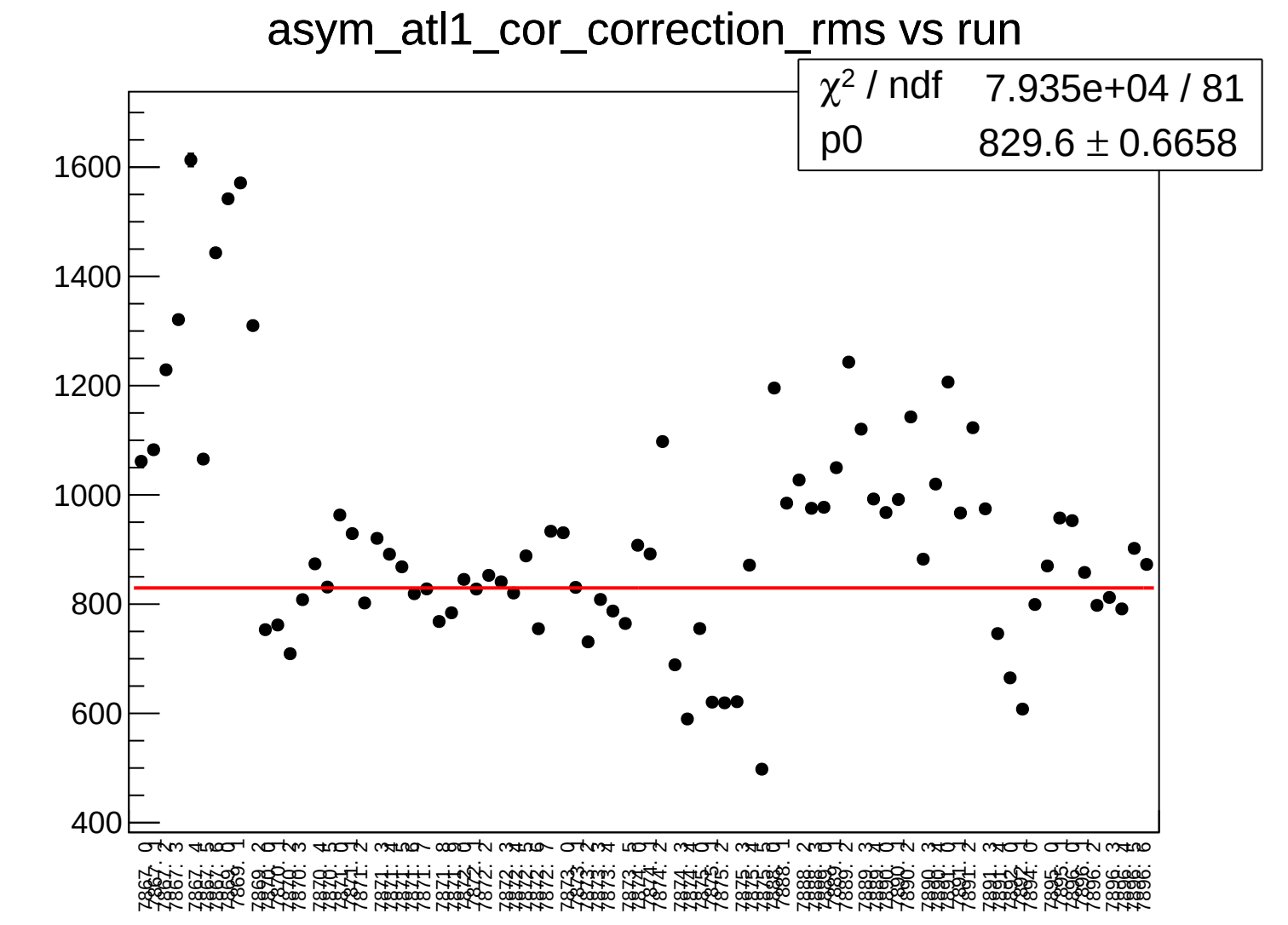

cor_asym_atl1_mean vs run
χ² / ndf 60.22 / 81
p0 −259.7 ± 2609
pull
Entries 82
Mean 2038
Std Dev 0

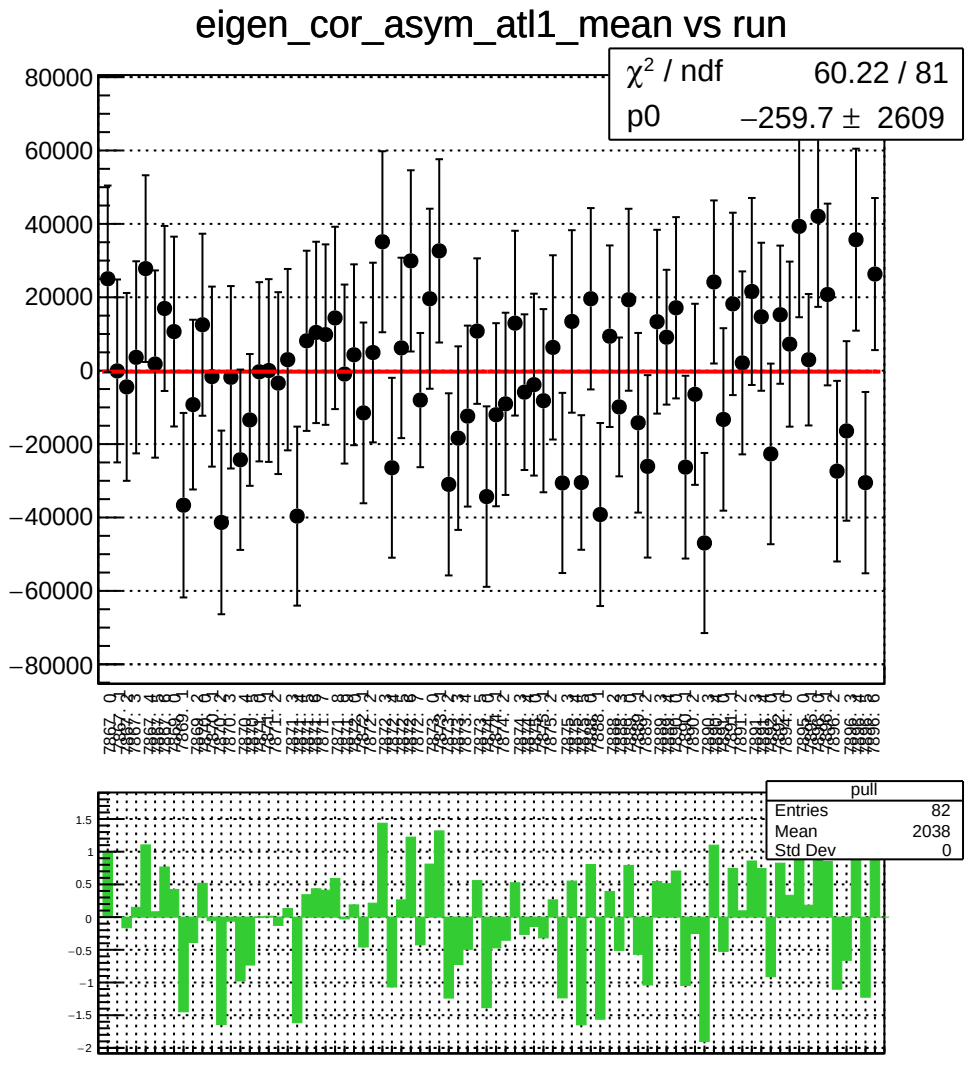

pull1D
Entries 82
Mean 0.000881
Std Dev 0.857

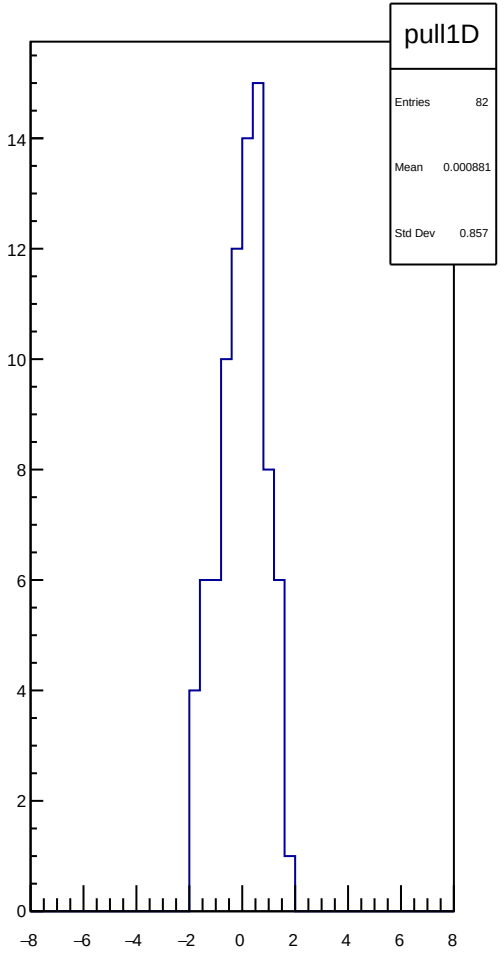

cor_asym_atl1_rms vs run
χ^2 / ndf 290.9 / 81
p0 2357 ± 1.845
2500
2450
2400
2350
2300

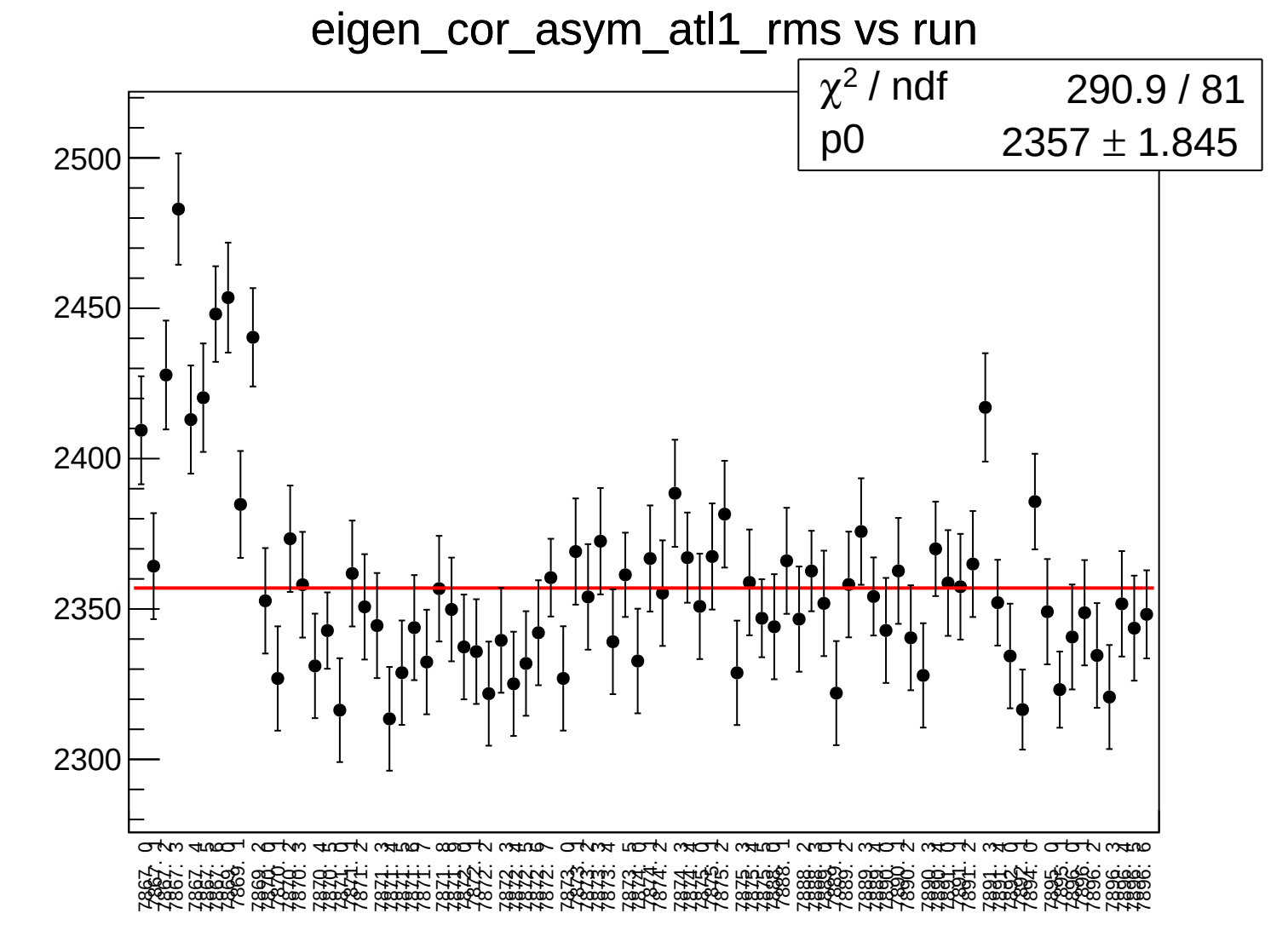

asym_atl1_cor_correction_mean vs run
χ² / ndf 72.29 / 81
p0 42.45 ± 941.5
pull
Entries 82
Mean −40.42
Std Dev 0

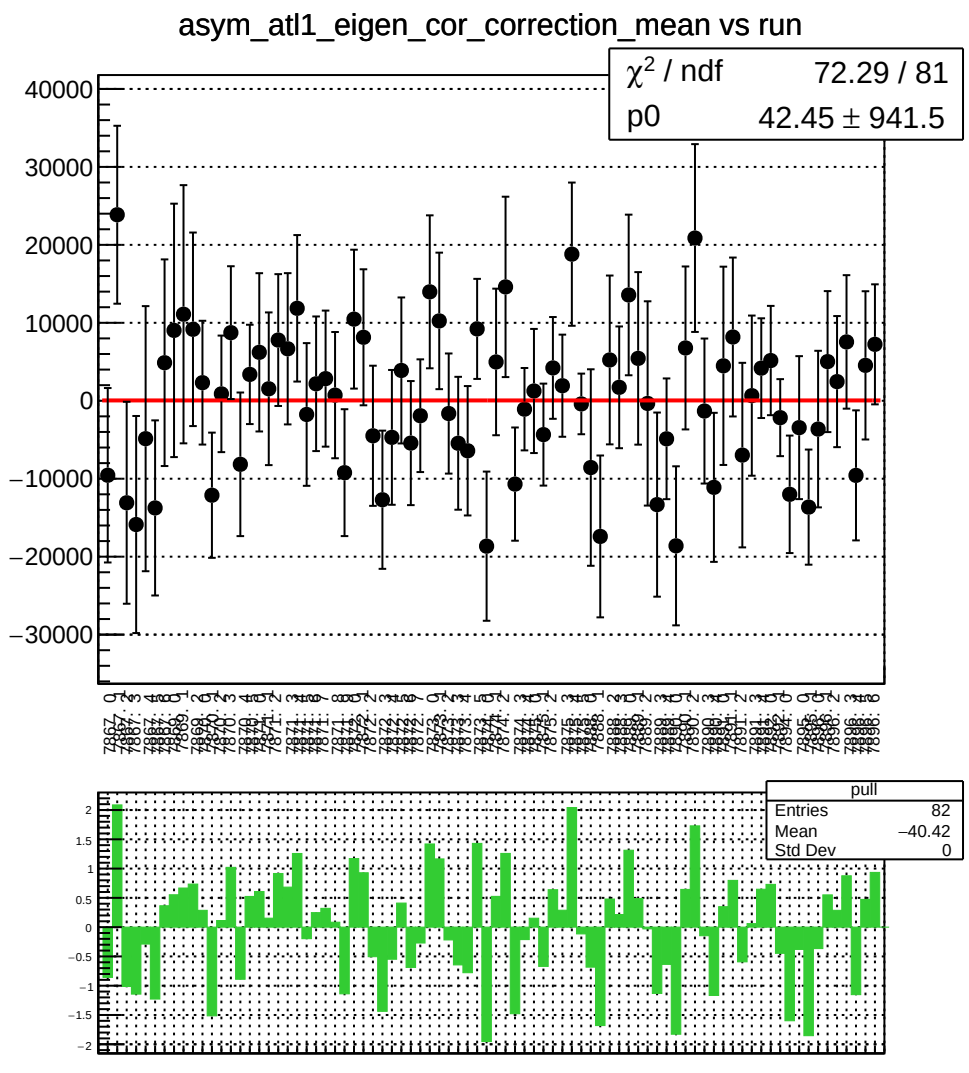

pull1D
Entries 82
Mean 0.01406
Std Dev 0.9388

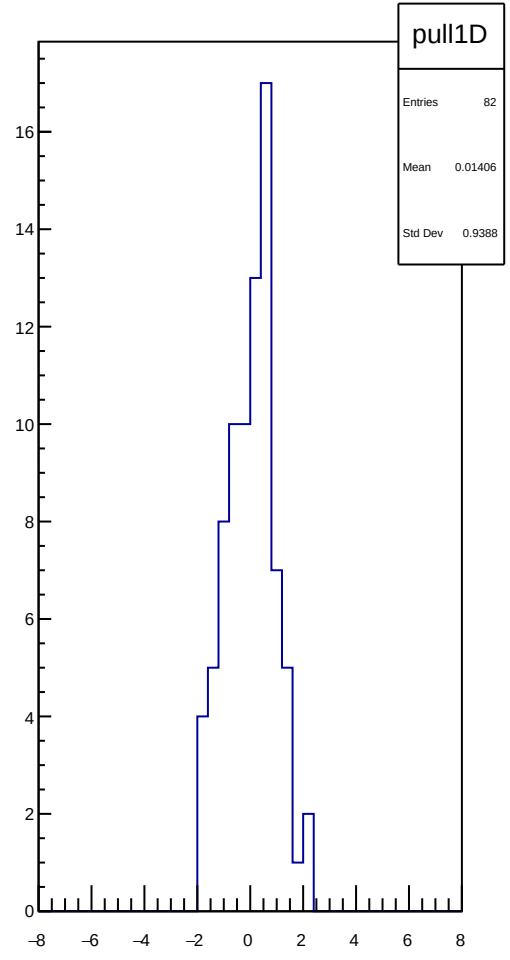

asym_atl1_cor_correction_rms vs run
χ² / ndf 7.935e+04 / 81
p0 829.6 ± 0.6658
1600
1400
1200
1000
800
600
400

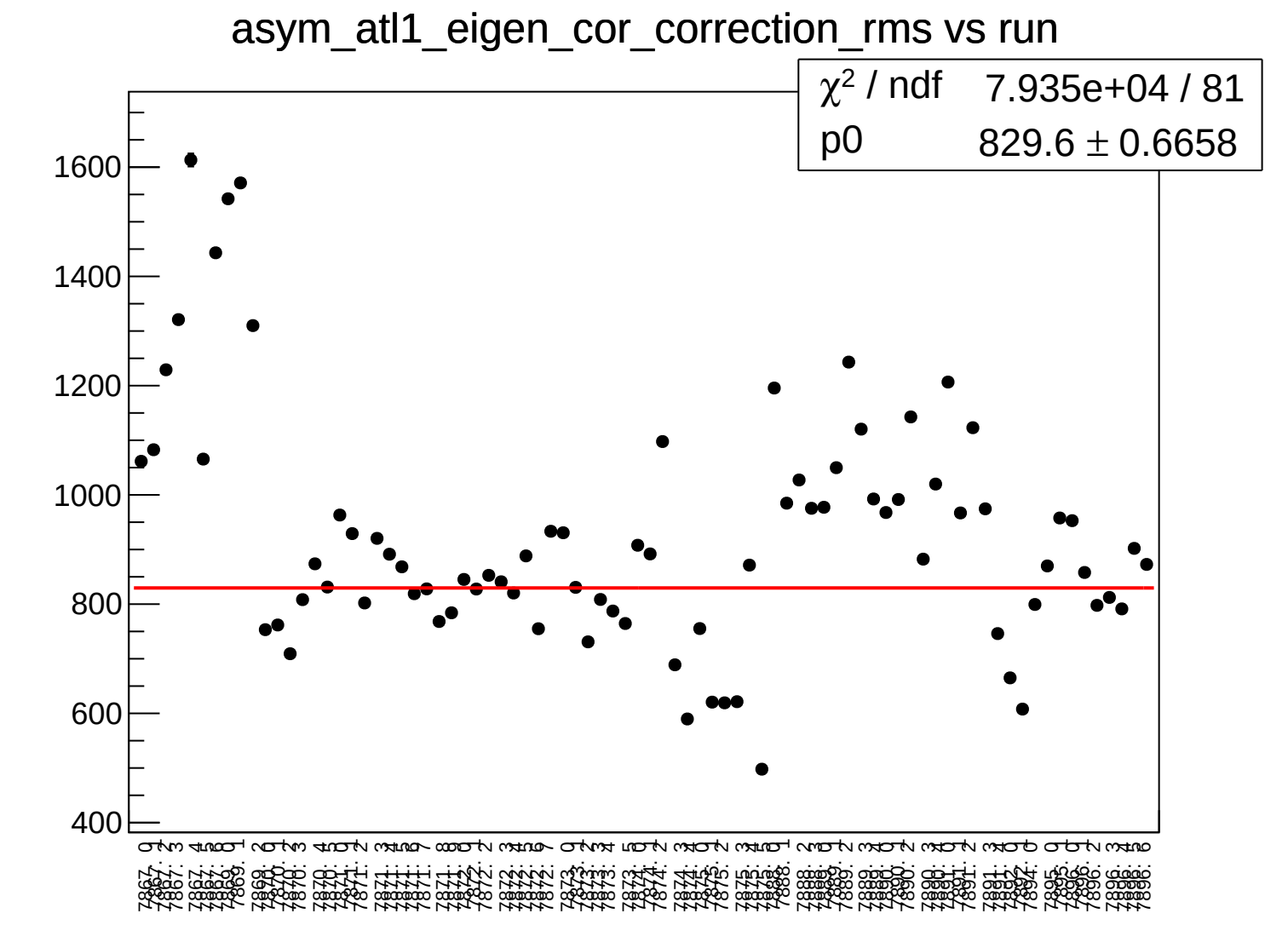

eigen_cor_asym_atl1_mean vs run
χ² / ndf 60.22 / 81
p0 −259.7 ± 2609
pull
Entries 82
Mean 2038
Std Dev 0

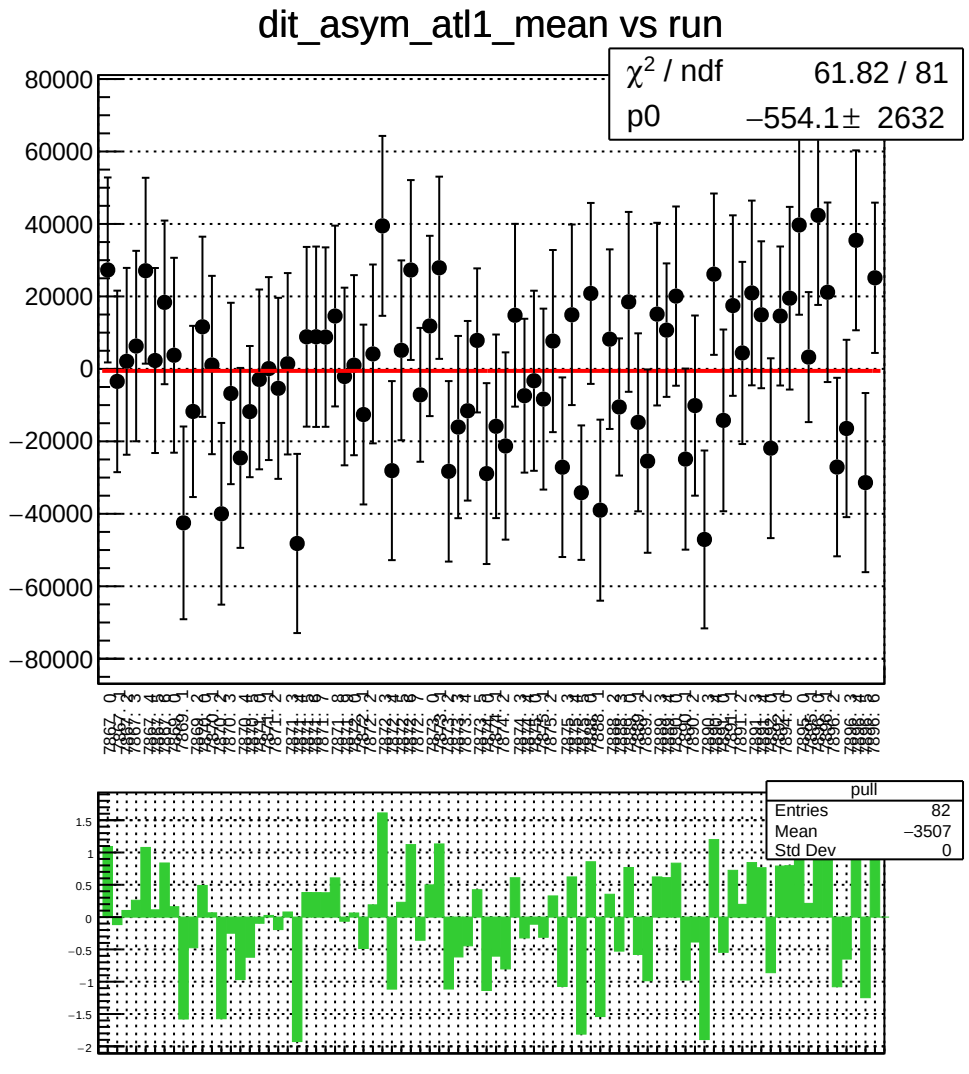

pull1D
Entries 82
Mean 0.000881
Std Dev 0.857

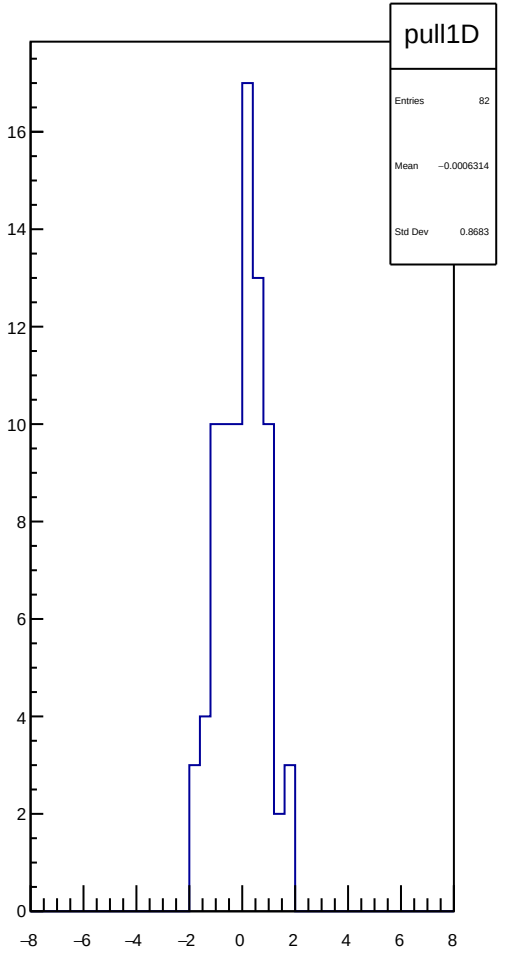

eigen_cor_asym_atl1_rms vs run
χ² / ndf 290.9 / 81
p0 2357 ± 1.845
2500
2450
2400
2350
2300

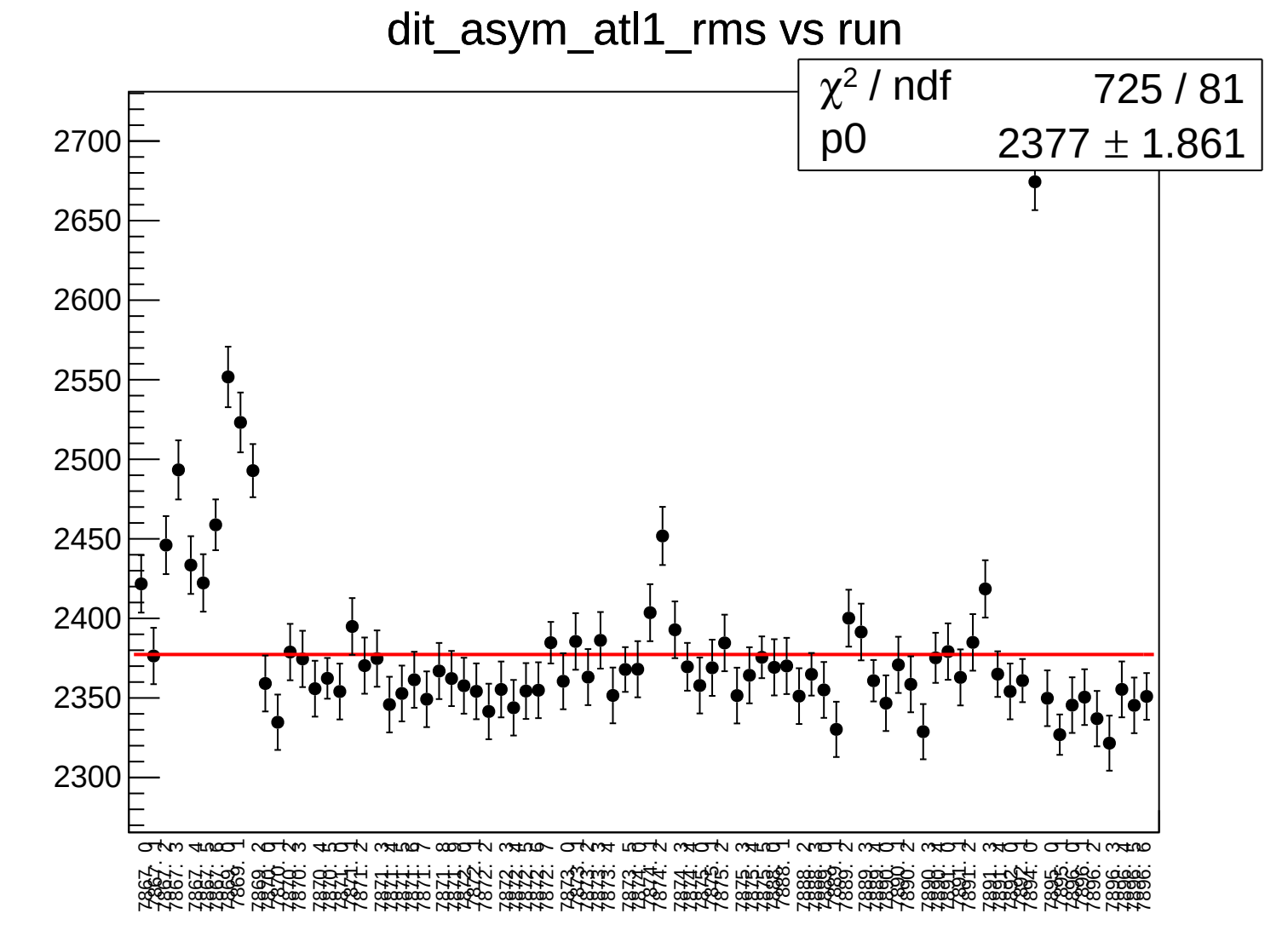

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 72.29 / 81
p0 42.45 ± 941.5
pull
Entries 82
Mean −40.42
Std Dev 0

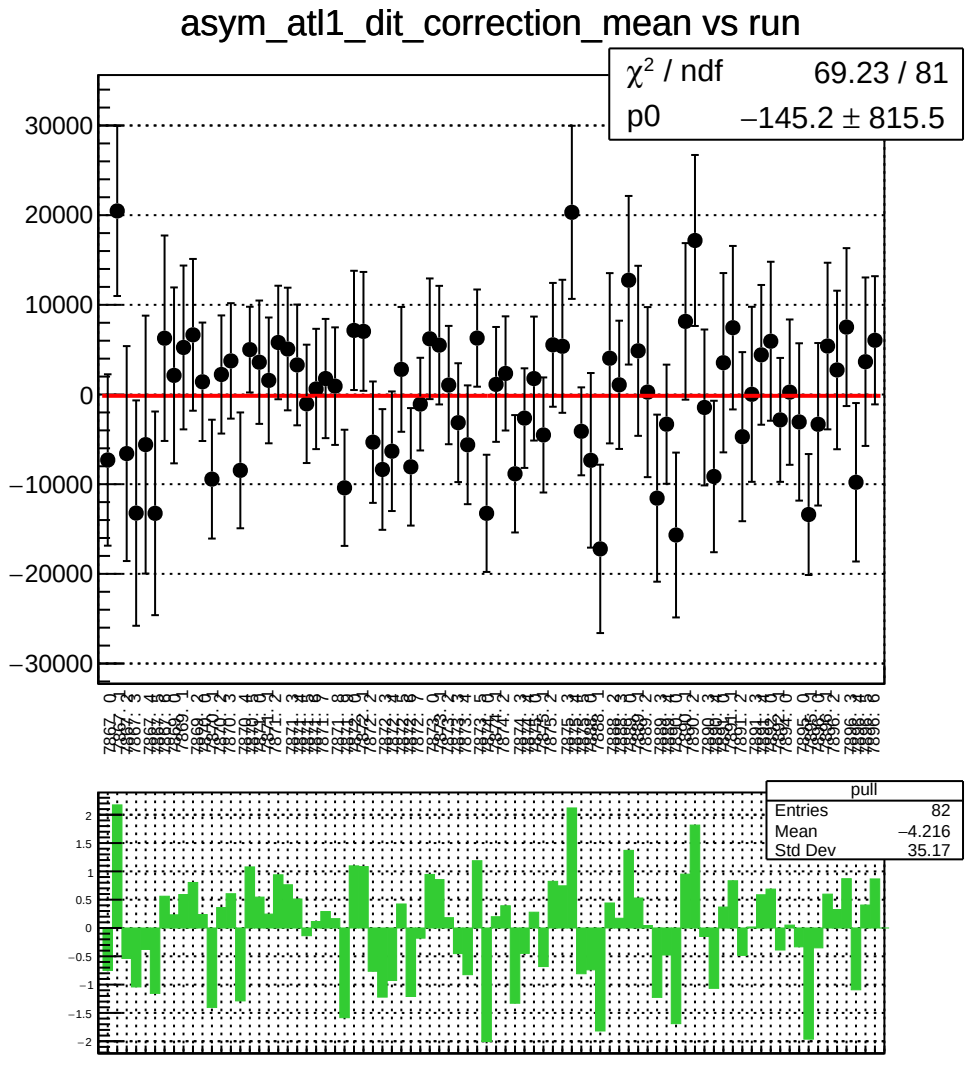

pull1D
Entries 82
Mean 0.01406
Std Dev 0.9388

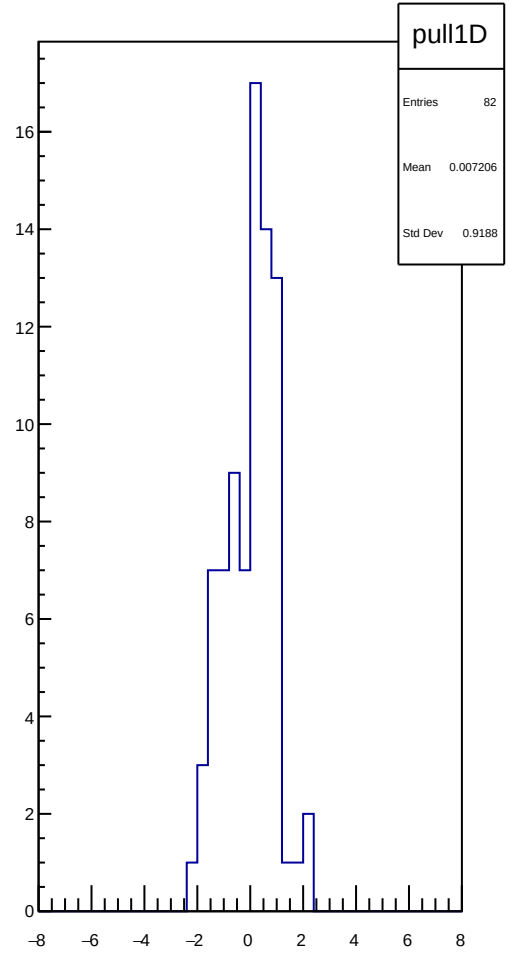

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 7.935e+04 / 81
p0 829.6 ± 0.6658
1600
1400
1200
1000
800
600
400

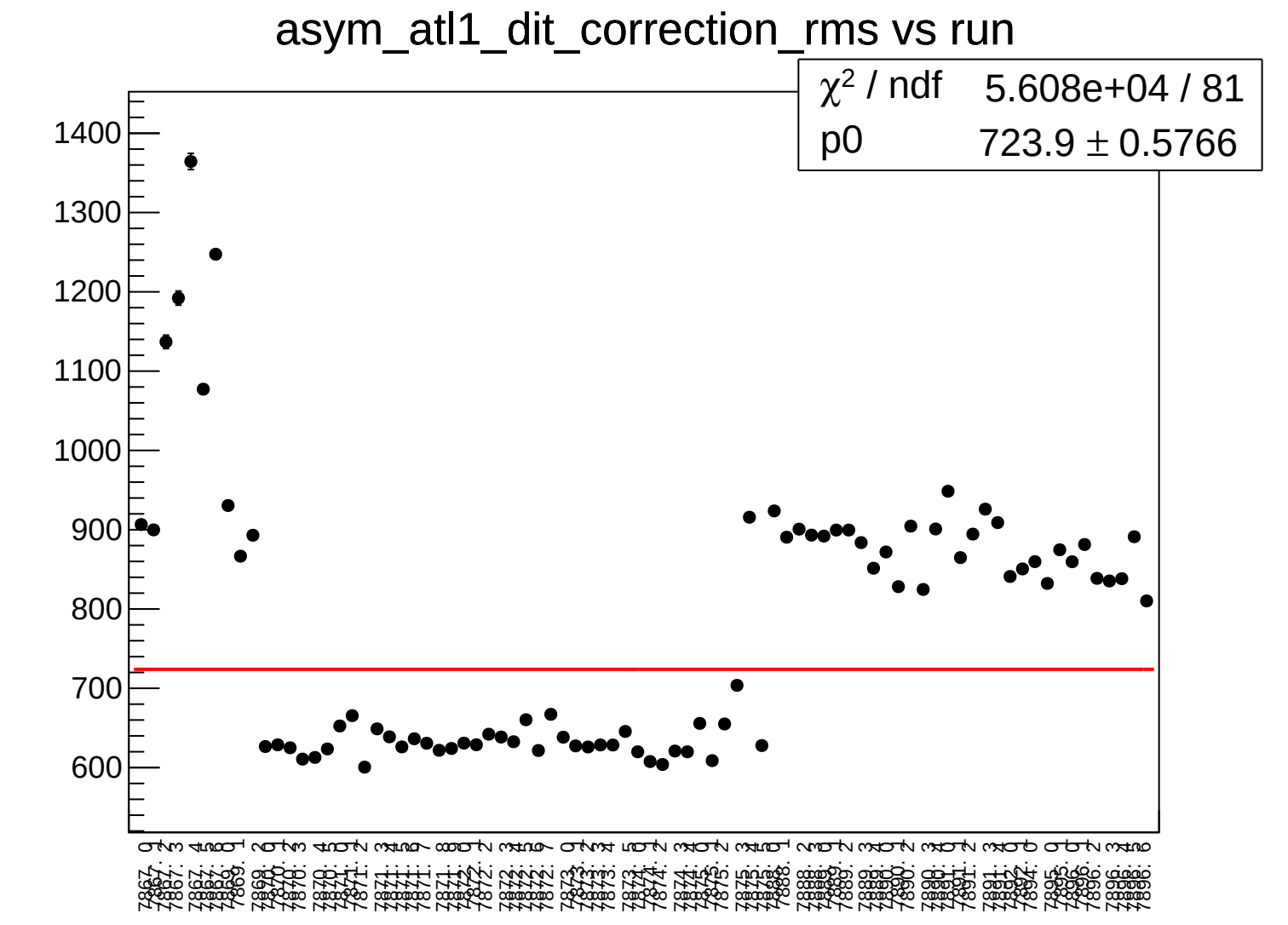

dit_asym_atl1_mean vs run
χ² / ndf 61.82 / 81
p0 −554.1± 2632
pull
Entries 82
Mean −3507
Std Dev 0

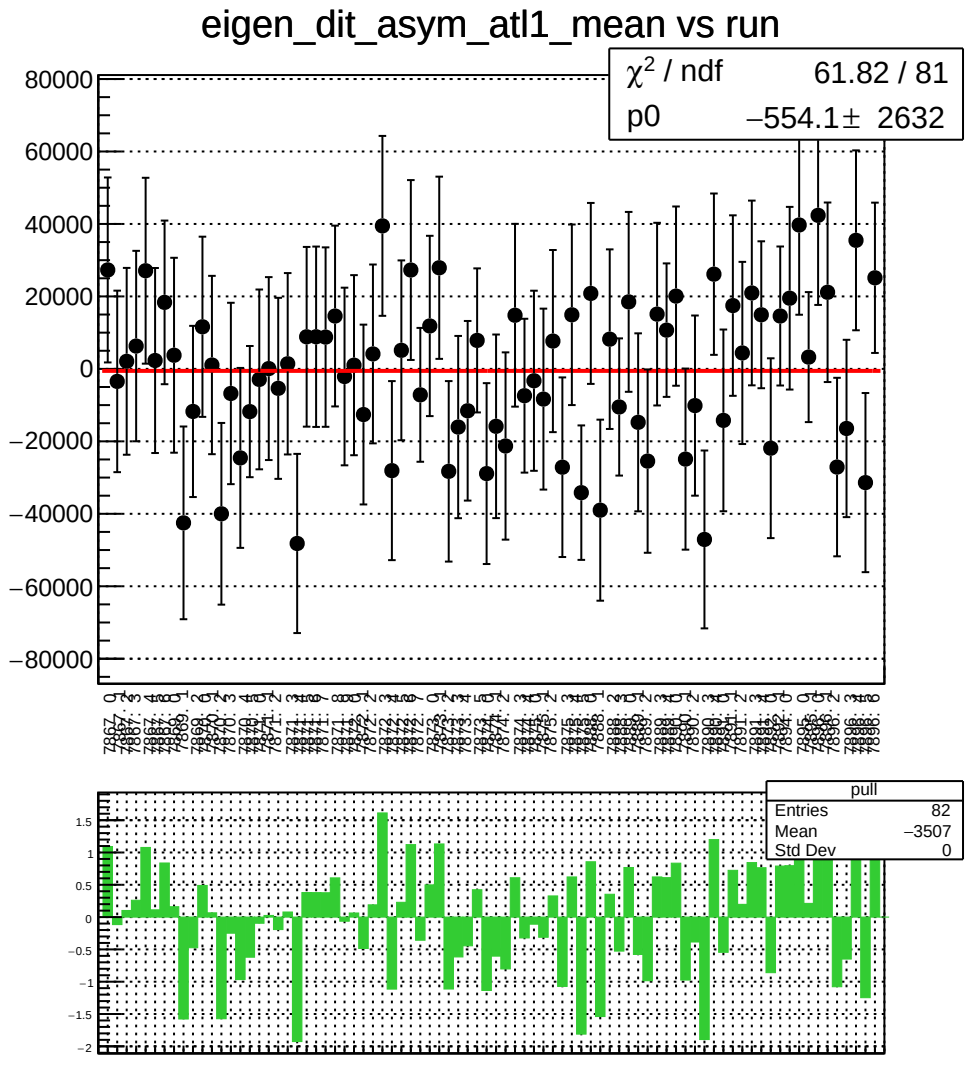

pull1D
Entries 82
Mean −0.0006314
Std Dev 0.8683

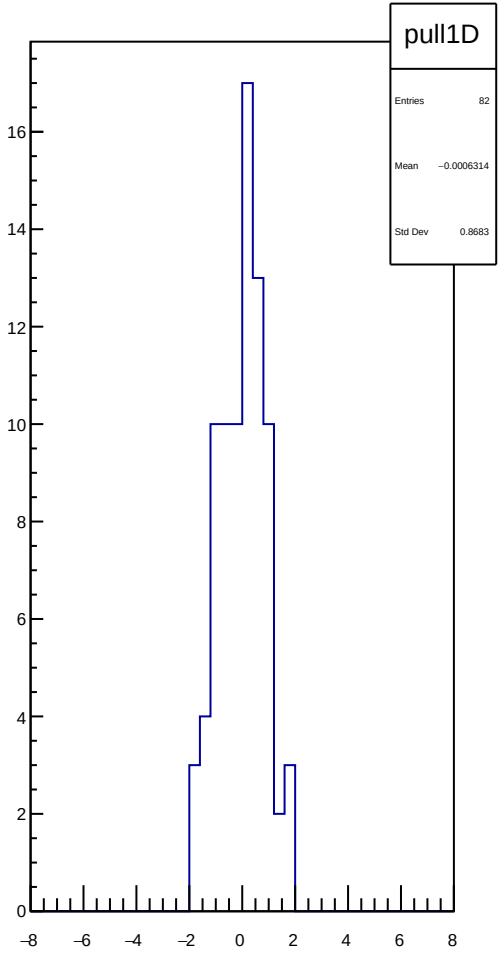

dit_asym_atl1_rms vs run
χ² / ndf 725 / 81
p0 2377 ± 1.861
2700
2650
2600
2550
2500
2450
2400
2350
2300

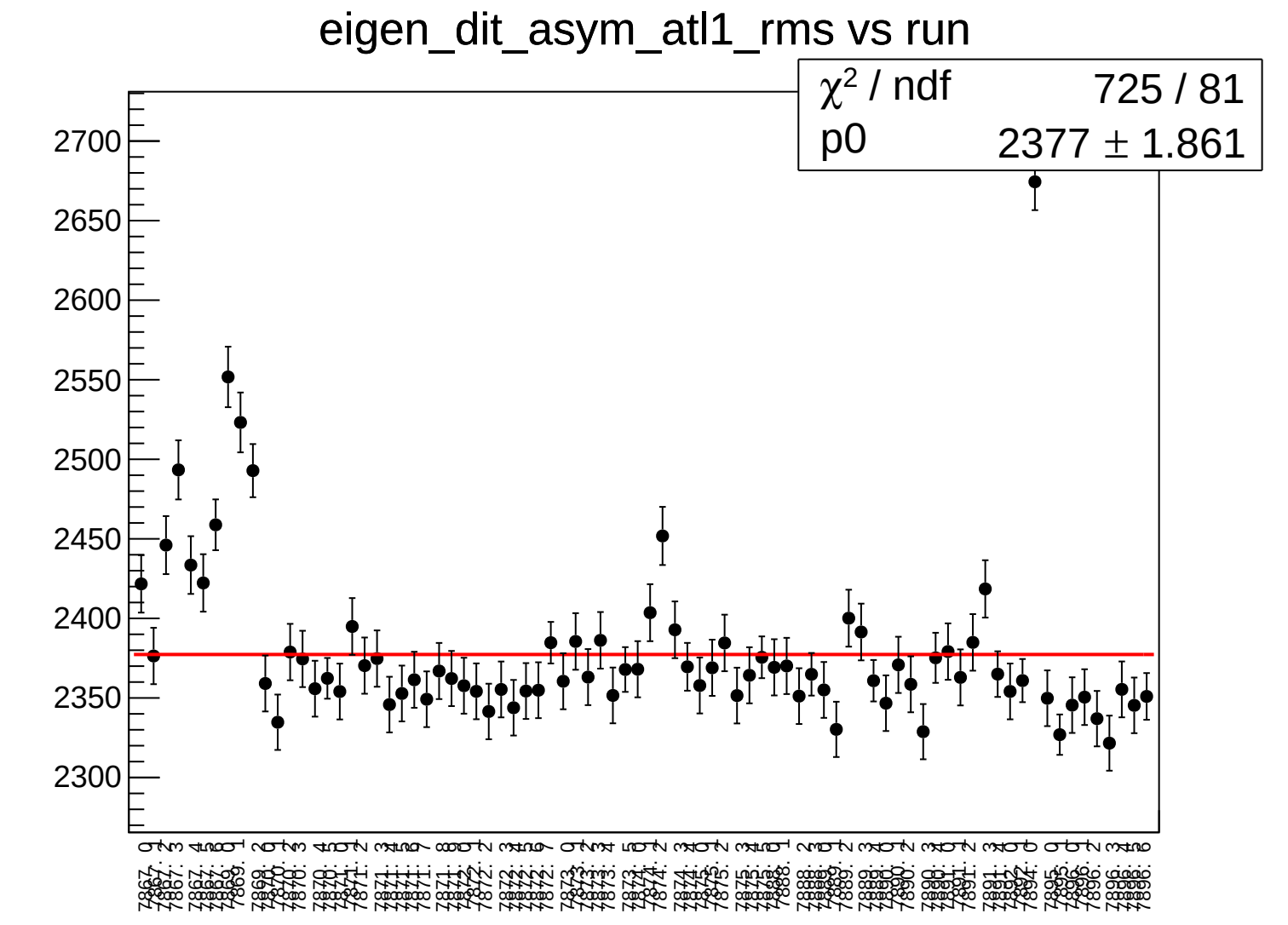

asym_atl1_dit_correction_mean vs run
χ² / ndf 69.23 / 81
p0 −145.2 ± 815.5
pull
Entries 82
Mean −4.216
Std Dev 35.17

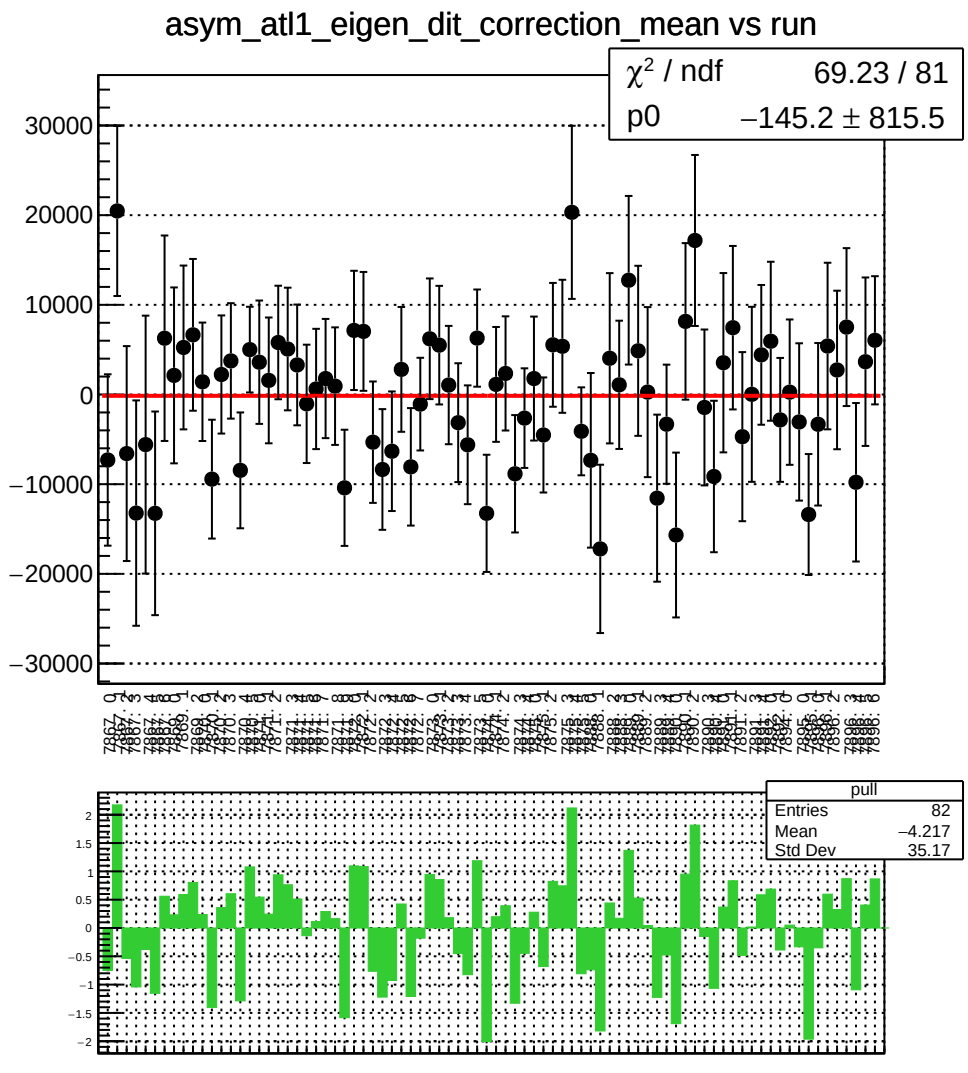

pull1D
Entries 82
Mean 0.007206
Std Dev 0.9188

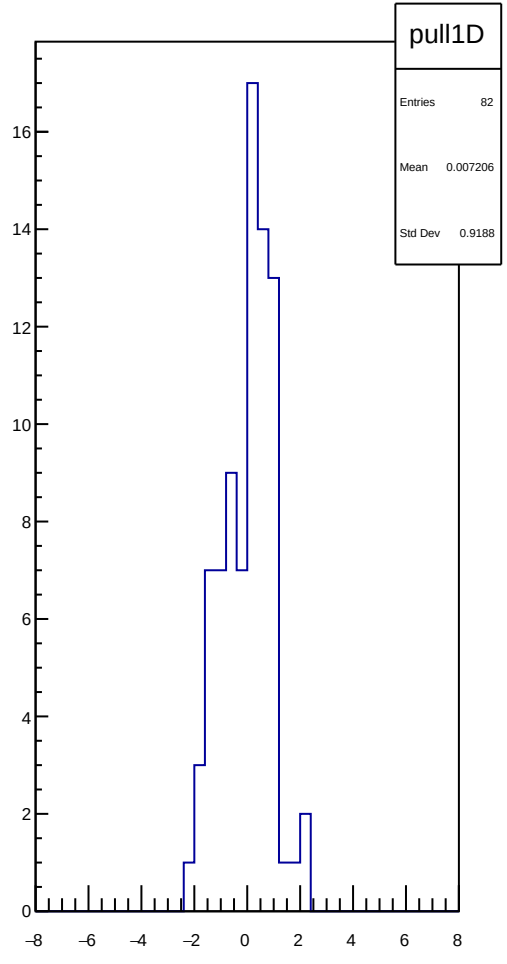

asym_atl1_dit_correction_rms vs run
χ² / ndf 5.608e+04 / 81
p0 723.9 ± 0.5766
1400
1300
1200
1100
1000
900
800
700
600

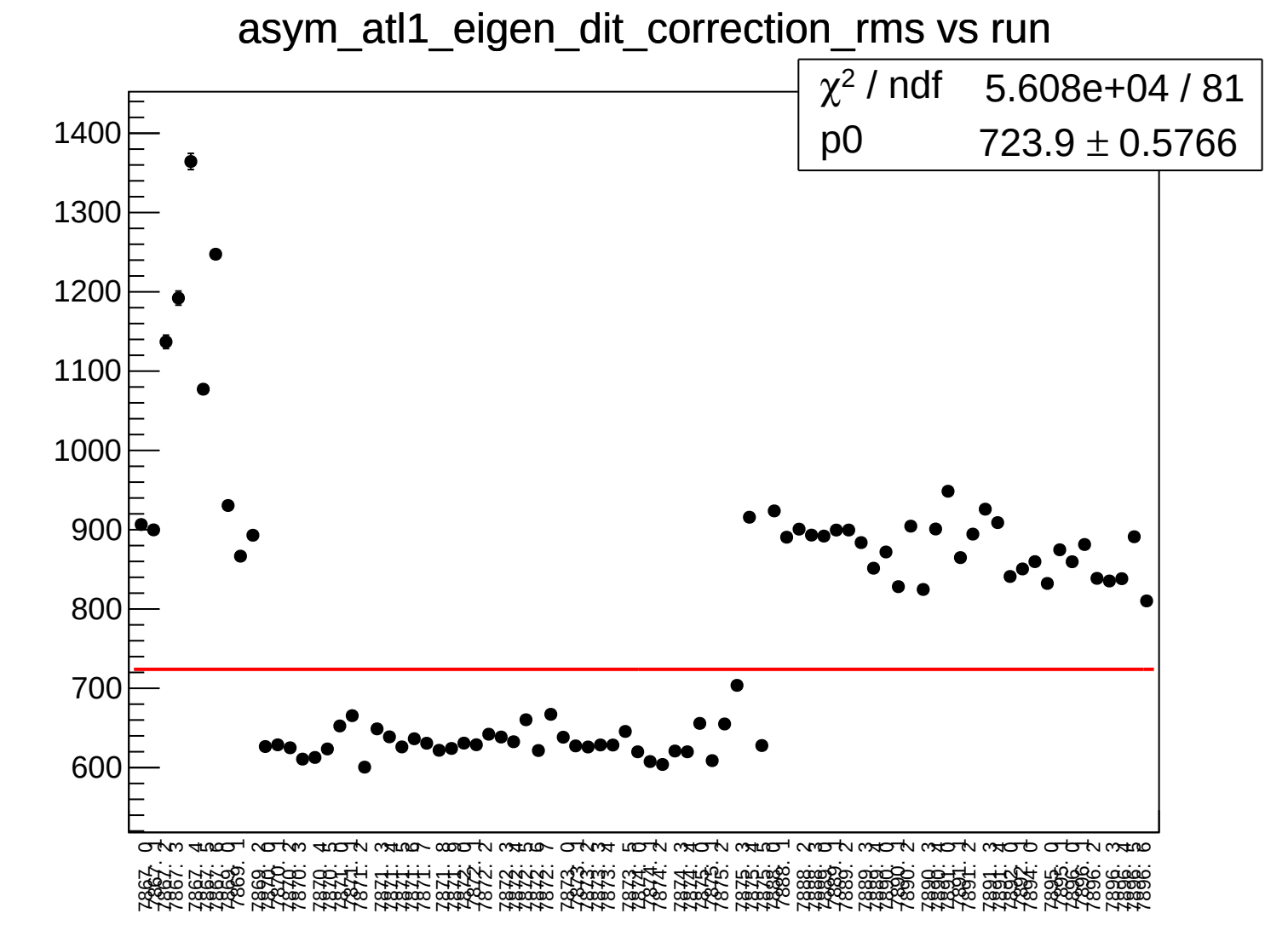

eigen_dit_asym_atl1_mean vs run
χ² / ndf 61.82 / 81
p0 −554.1± 2632
pull
Entries 82
Mean −3507
Std Dev 0

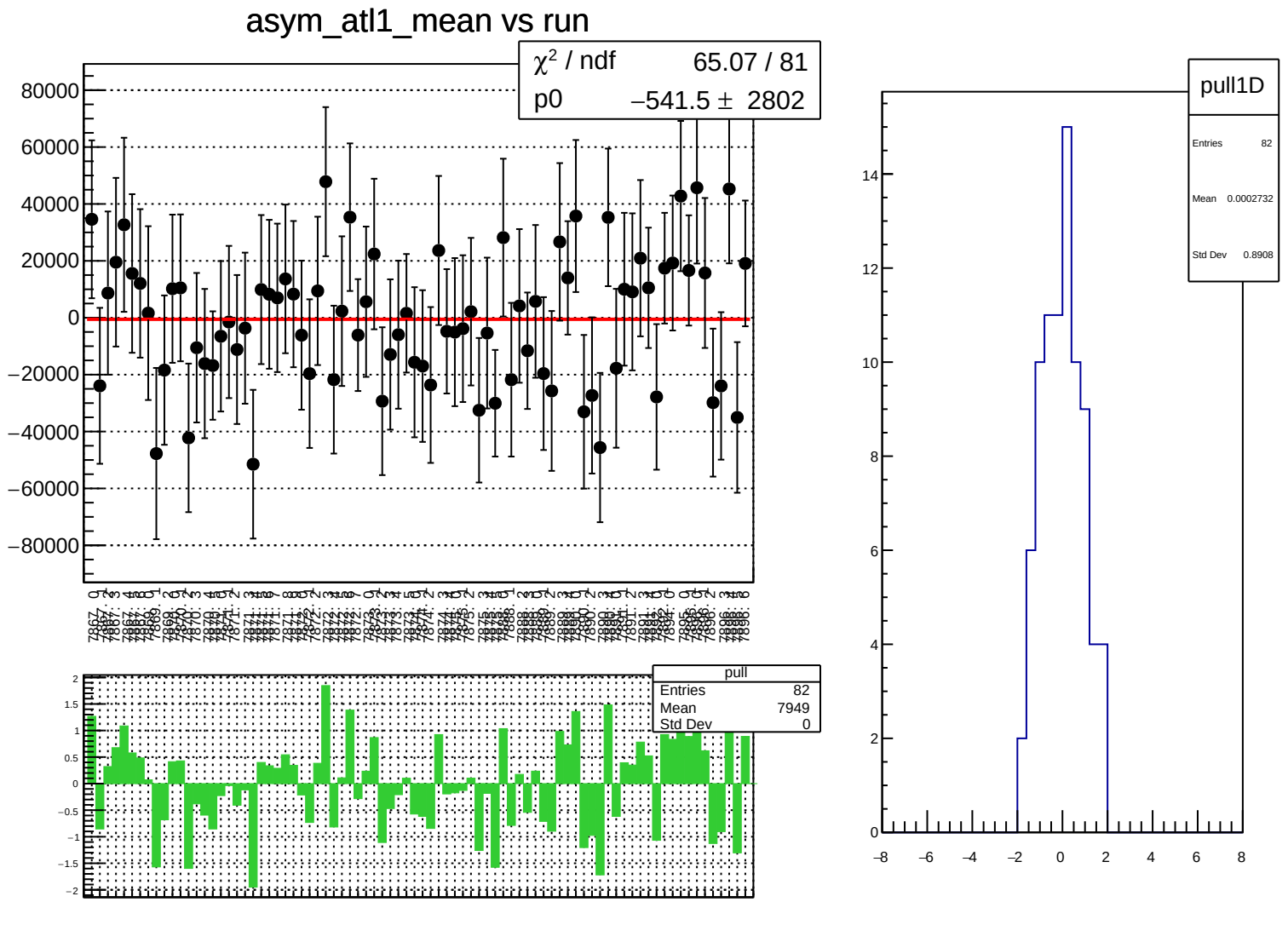

pull1D
Entries 82
Mean −0.0006314
Std Dev 0.8683

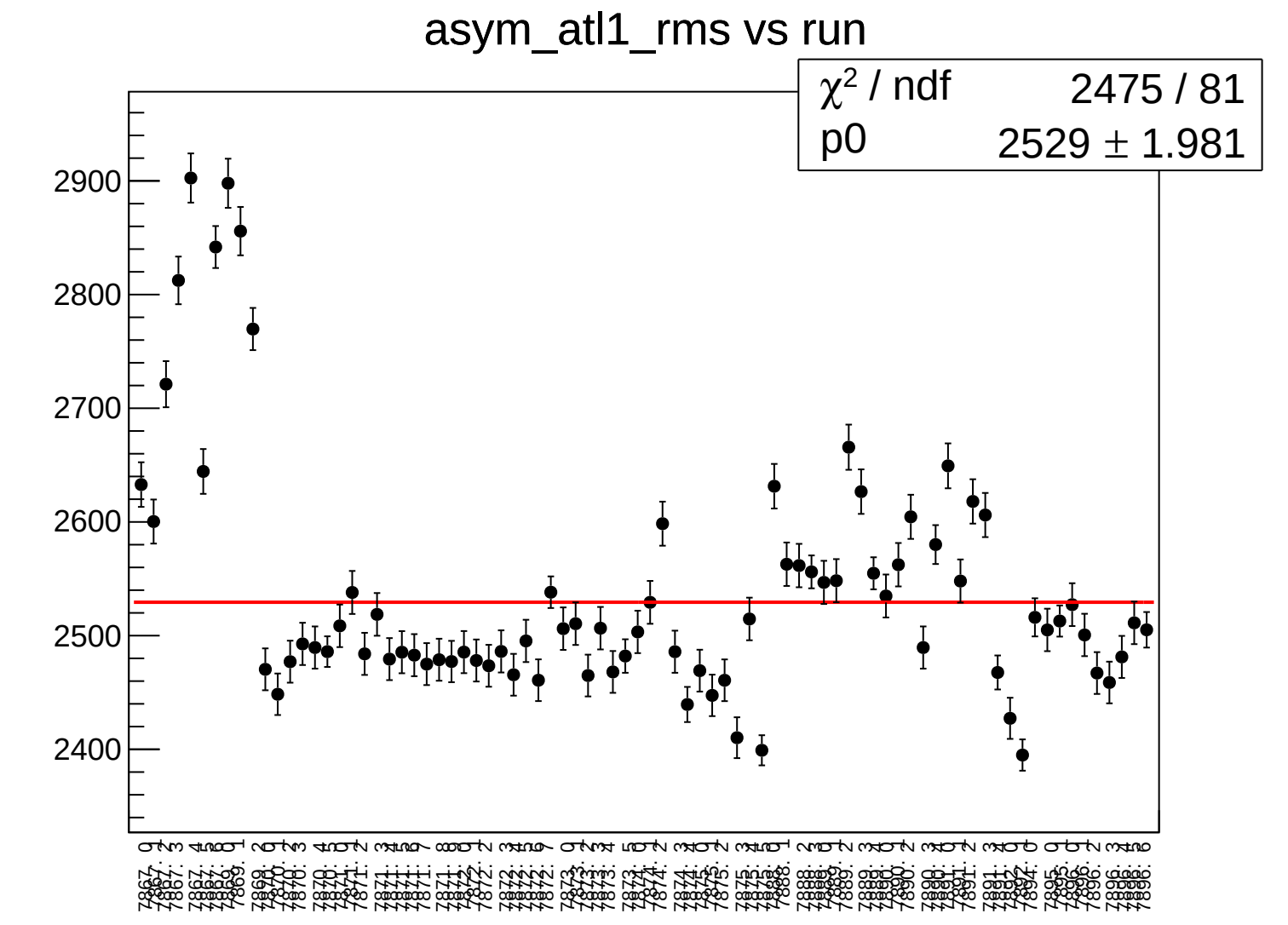

eigen_dit_asym_atl1_rms vs run
χ² / ndf 725 / 81
p0 2377 ± 1.861
2700
2650
2600
2550
2500
2450
2400
2350
2300

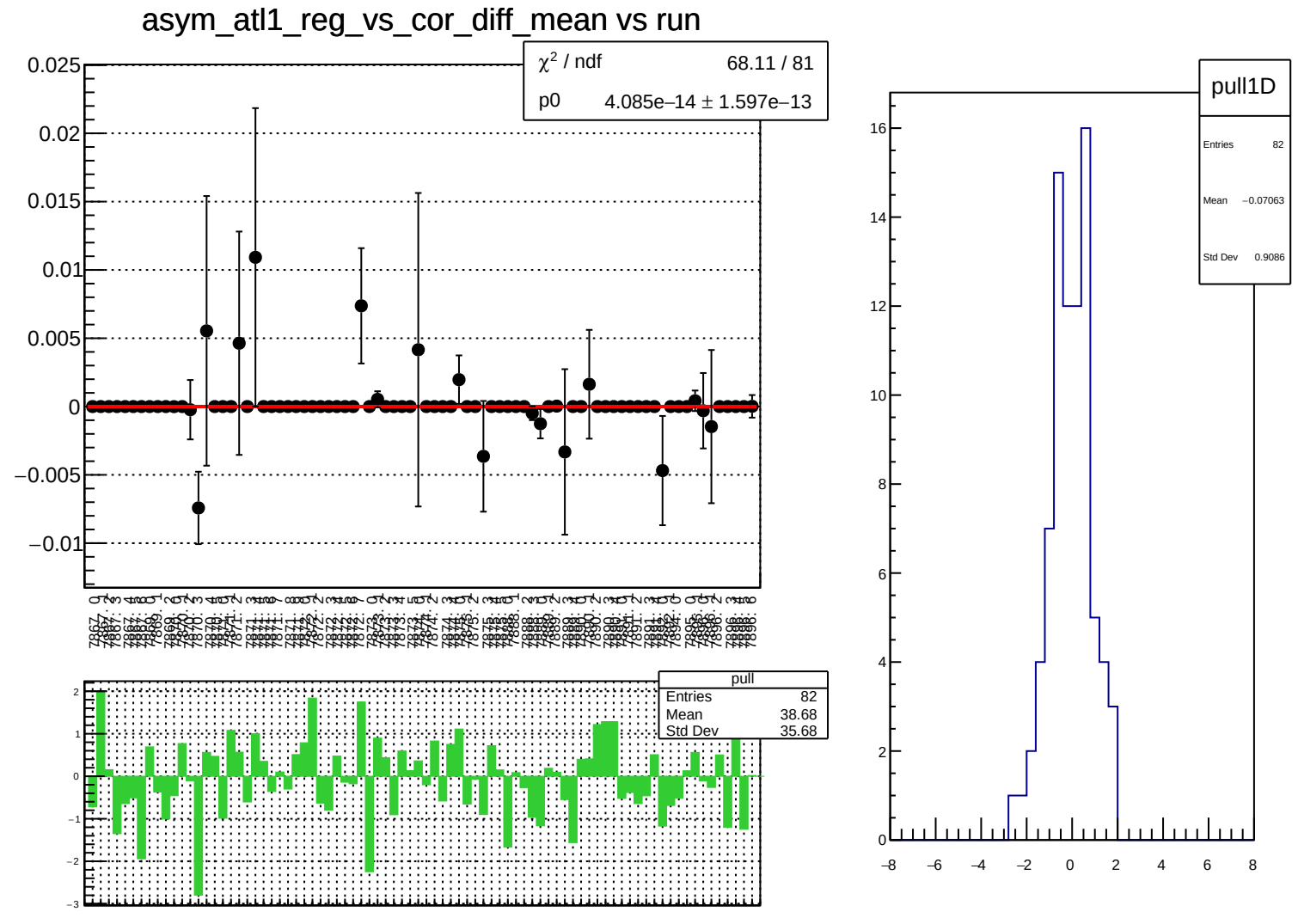

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 69.23 / 81
p0 −145.2 ± 815.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −4.217
Std Dev 35.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

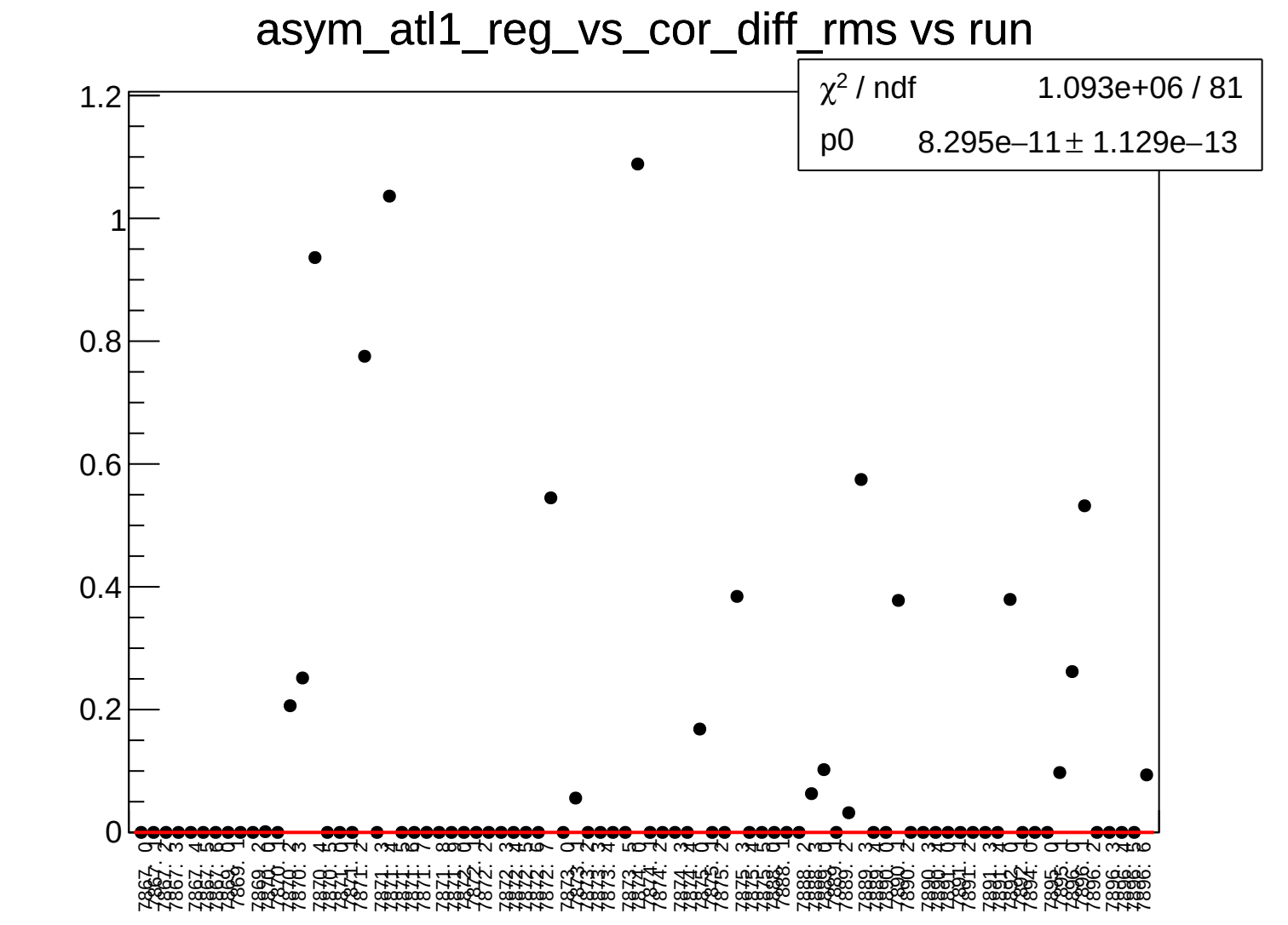

pull1D
Entries 82
Mean 0.007206
Std Dev 0.9188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

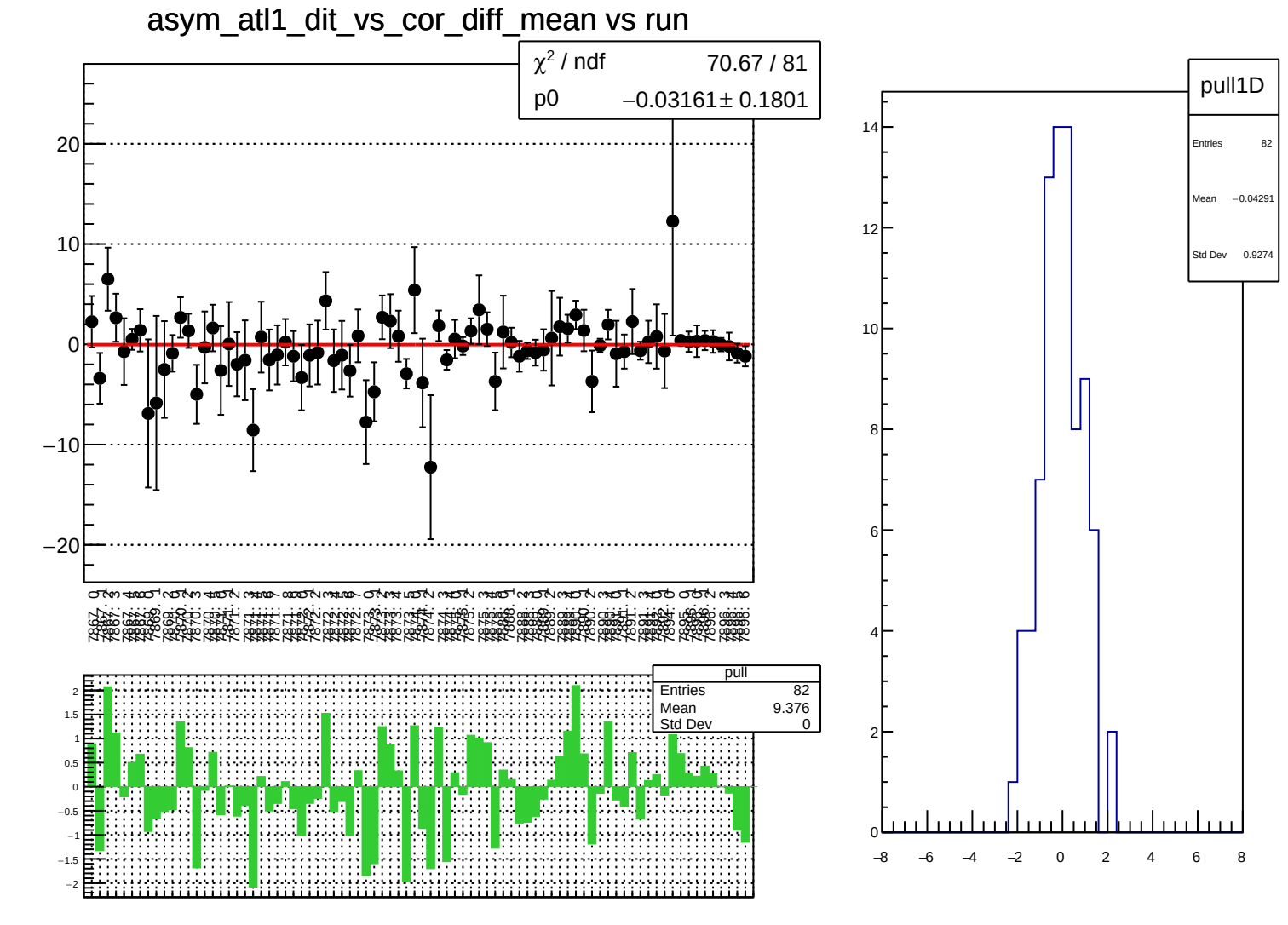

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 5.608e+04 / 81
p0 723.9 ± 0.5766
1400
1300
1200
1100
1000
900
800
700
600

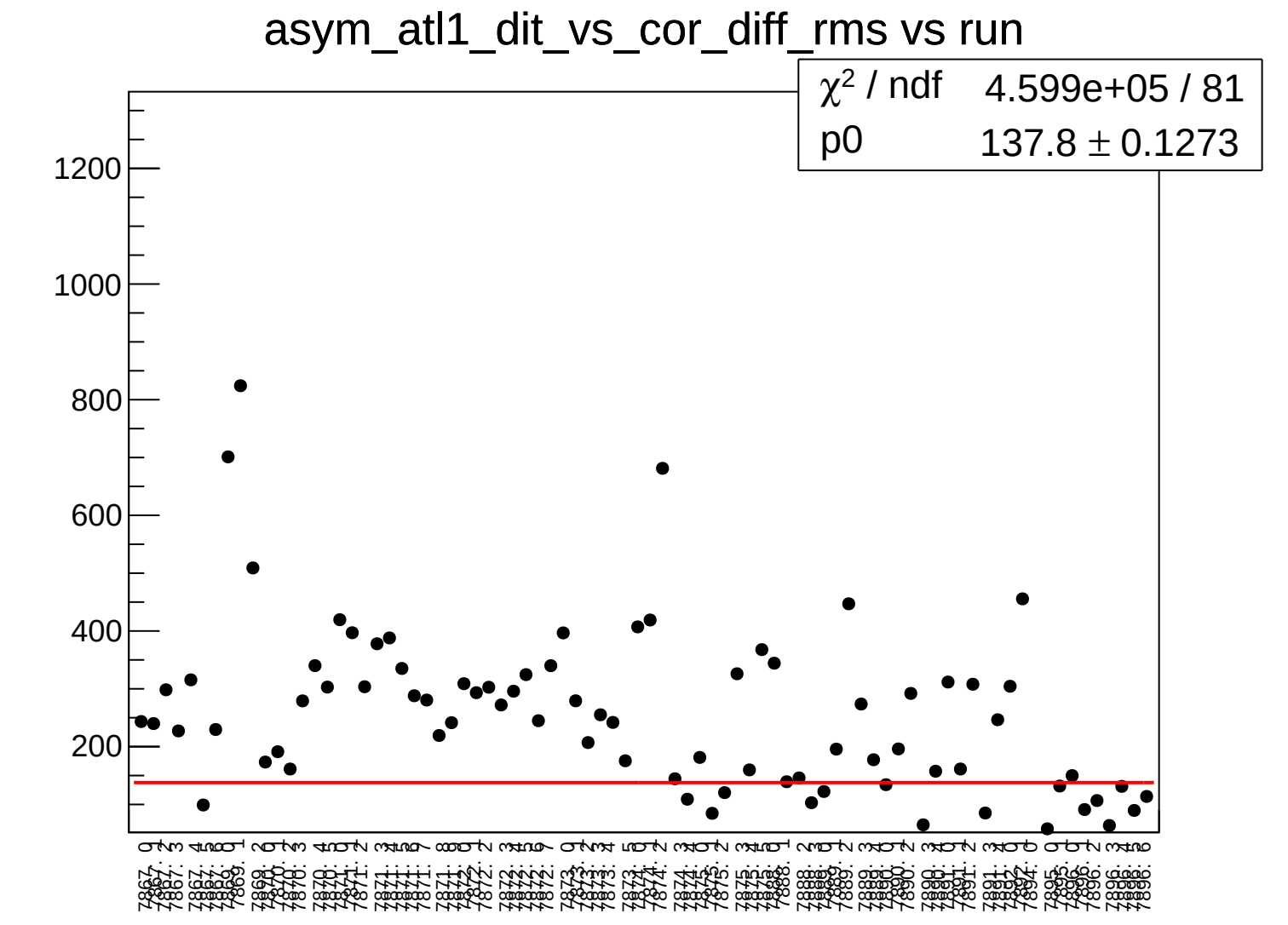

asym_atl1_mean vs run
χ² / ndf 65.07 / 81
p0 −541.5 ± 2802
pull
Entries 82
Mean 7949
Std Dev 0
pull1D
Entries 82
Mean 0.0002732
Std Dev 0.8908

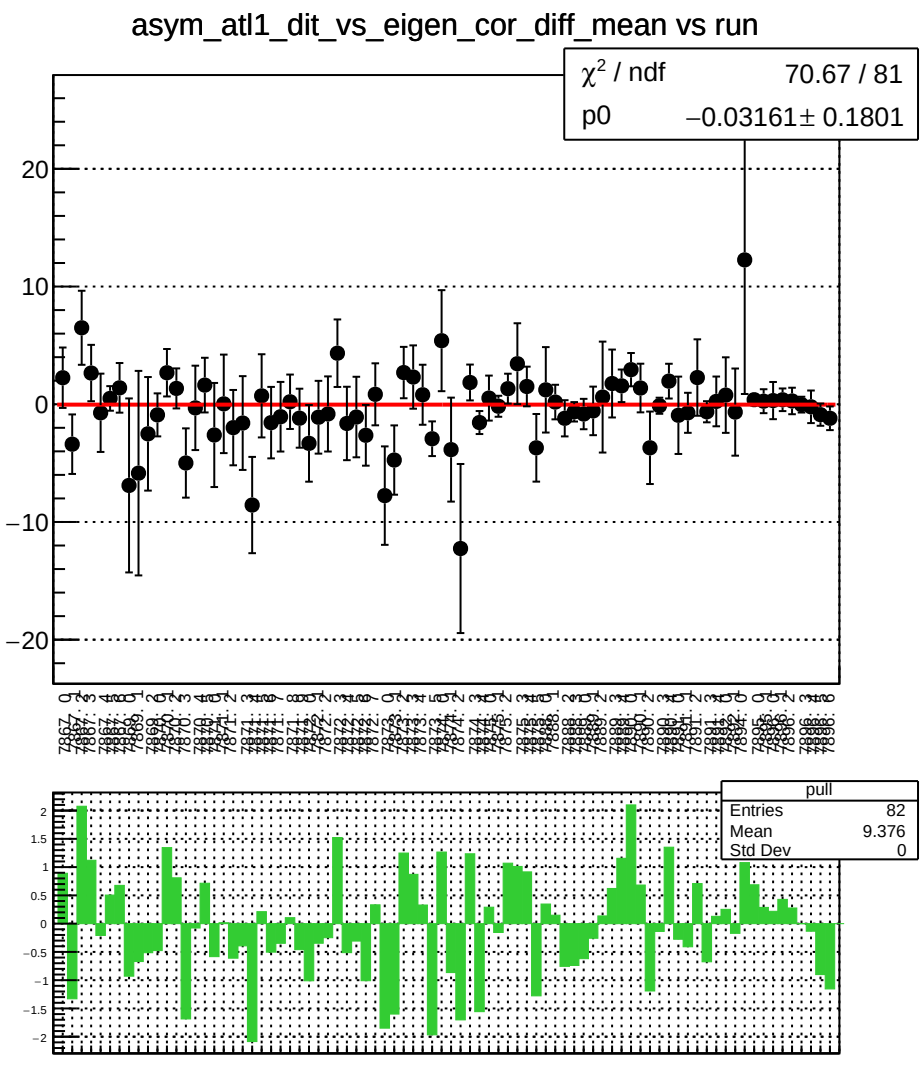

asym_atl1_rms vs run
χ^2 / ndf 2475 / 81
p0 2529 ± 1.981
2900
2800
2700
2600
2500
2400

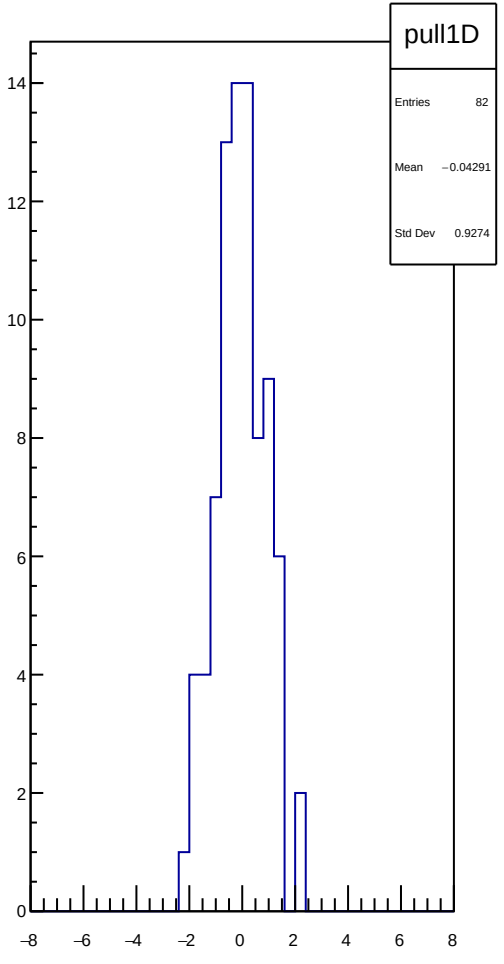

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 68.11 / 81
p0 4.085e−14 ± 1.597e−13
pull
Entries 82
Mean 38.68
Std Dev 35.68
pull1D
Entries 82
Mean −0.07063
Std Dev 0.9086

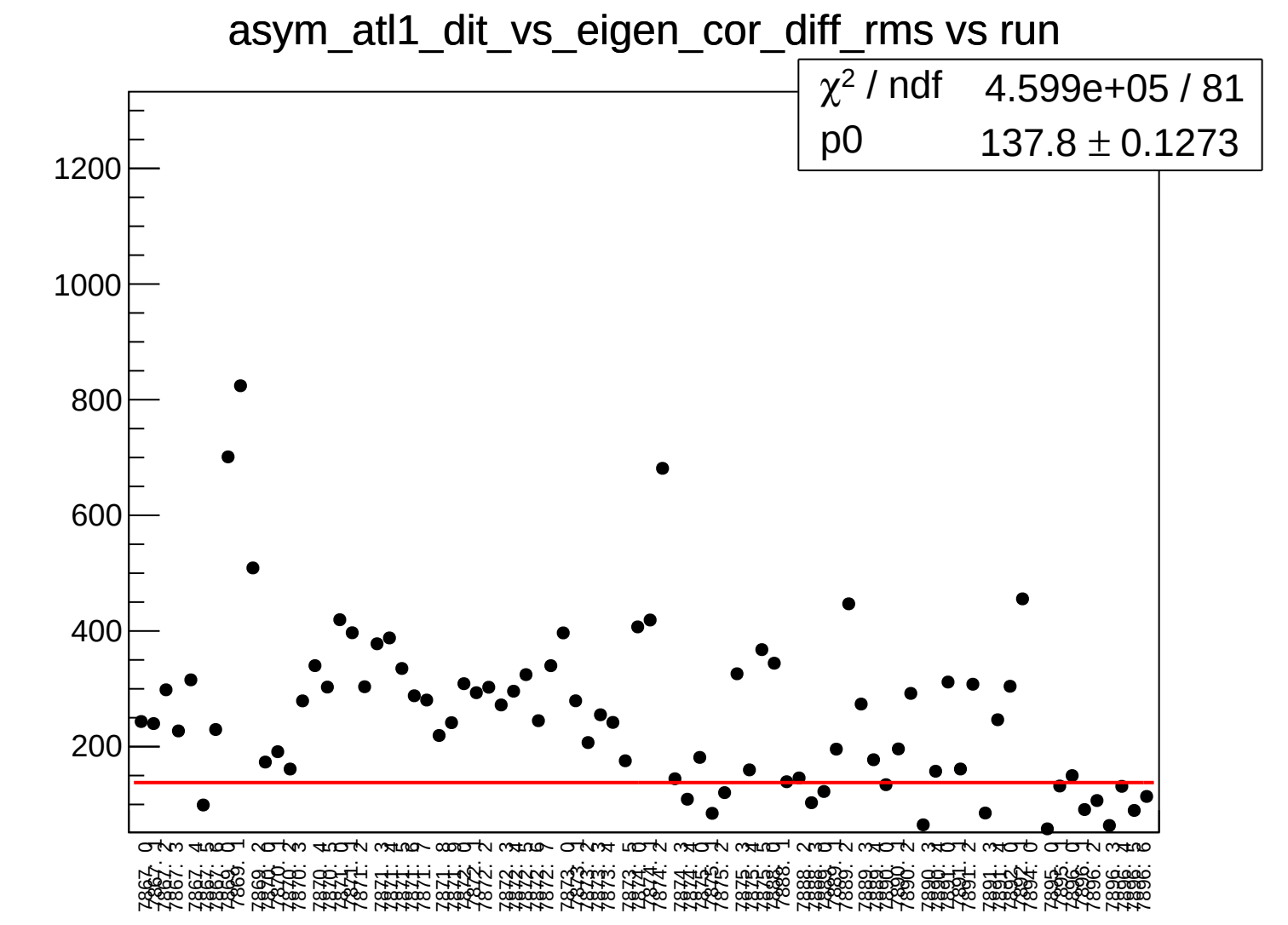

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 81
p0 8.295e−11 ± 1.129e−13
1.2
1
0.8
0.6
0.4
0.2
0

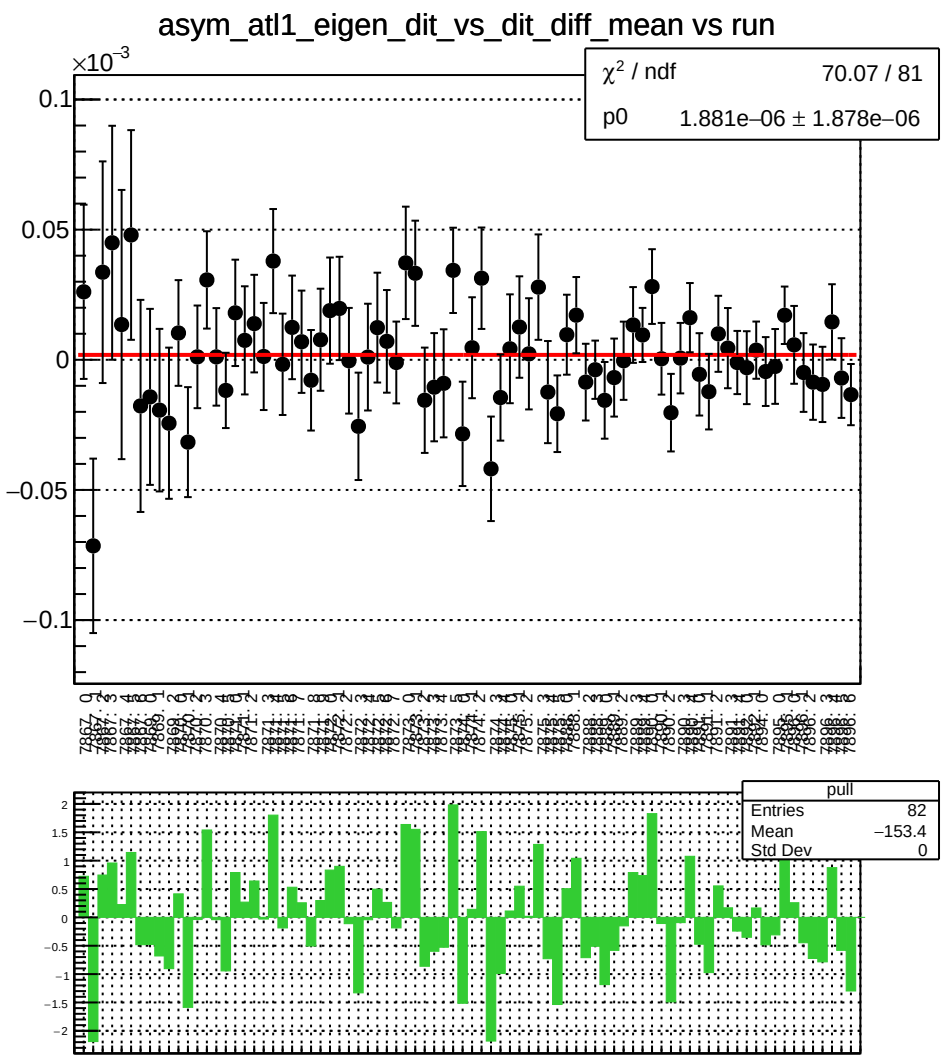

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 70.67 / 81
p0 −0.03161 ± 0.1801
pull
Entries 82
Mean 9.376
Std Dev 0
pull1D
Entries 82
Mean −0.04291
Std Dev 0.9274

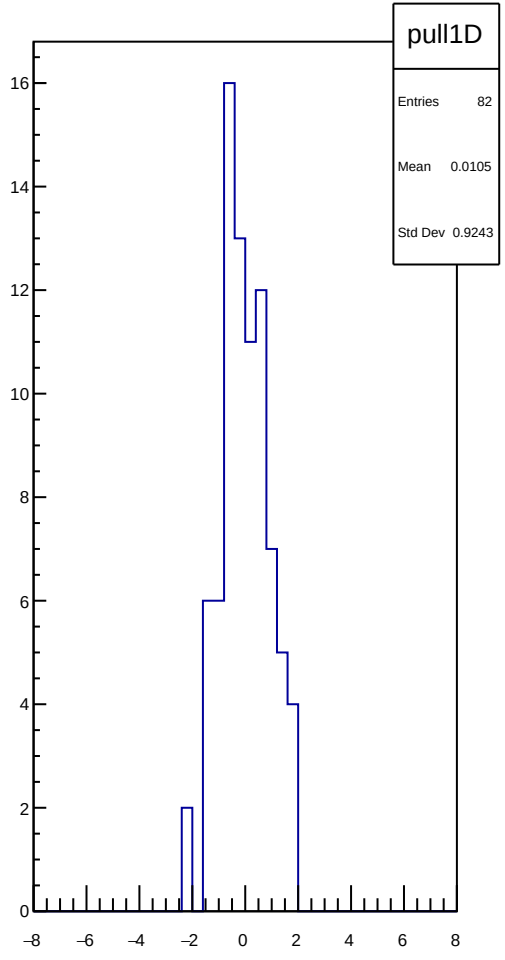

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.599e+05 / 81
p0 137.8 ± 0.1273
1200
1000
800
600
400
200

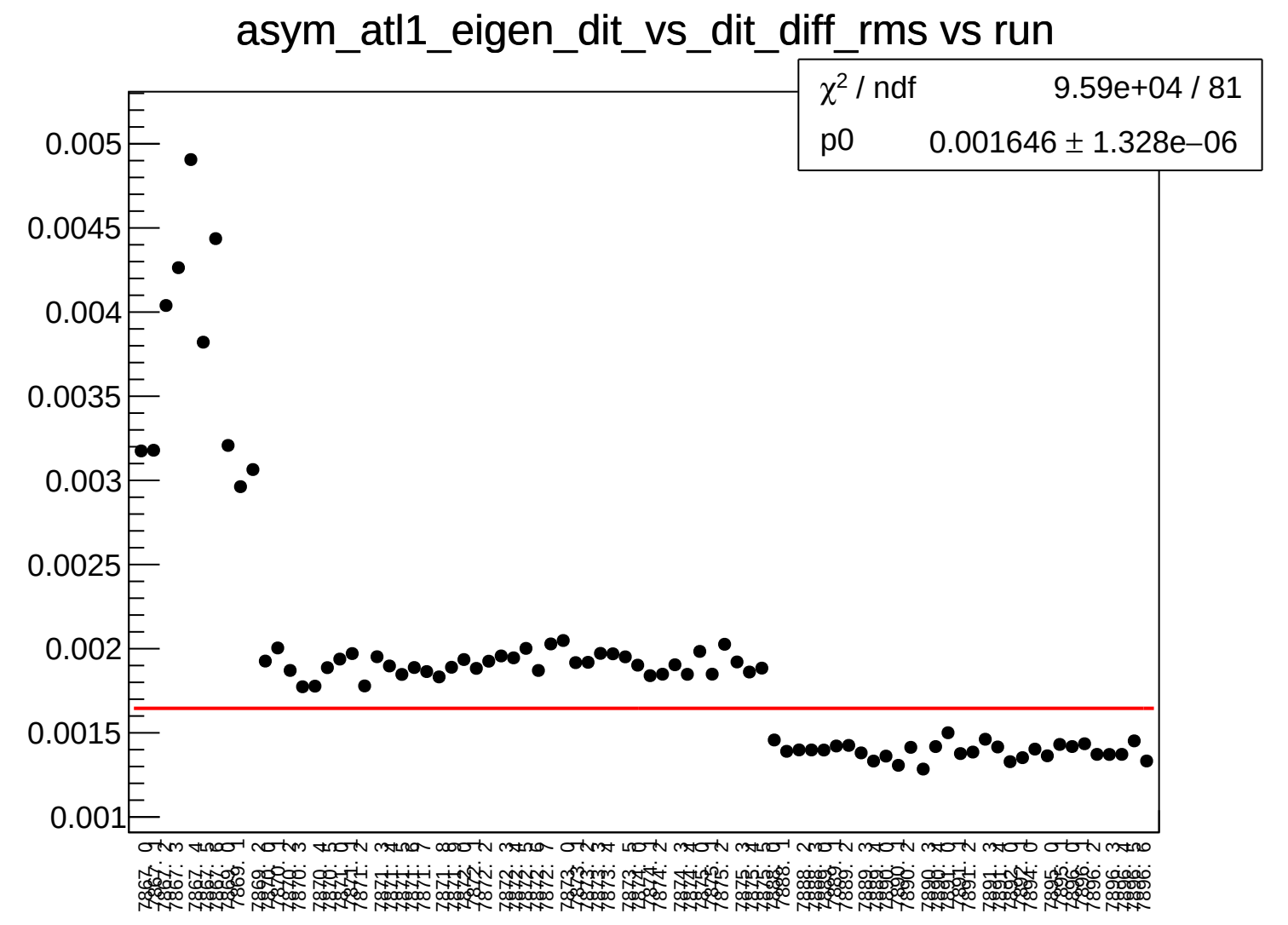

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.67 / 81
p0 −0.03161 ± 0.1801
pull
Entries 82
Mean 9.376
Std Dev 0

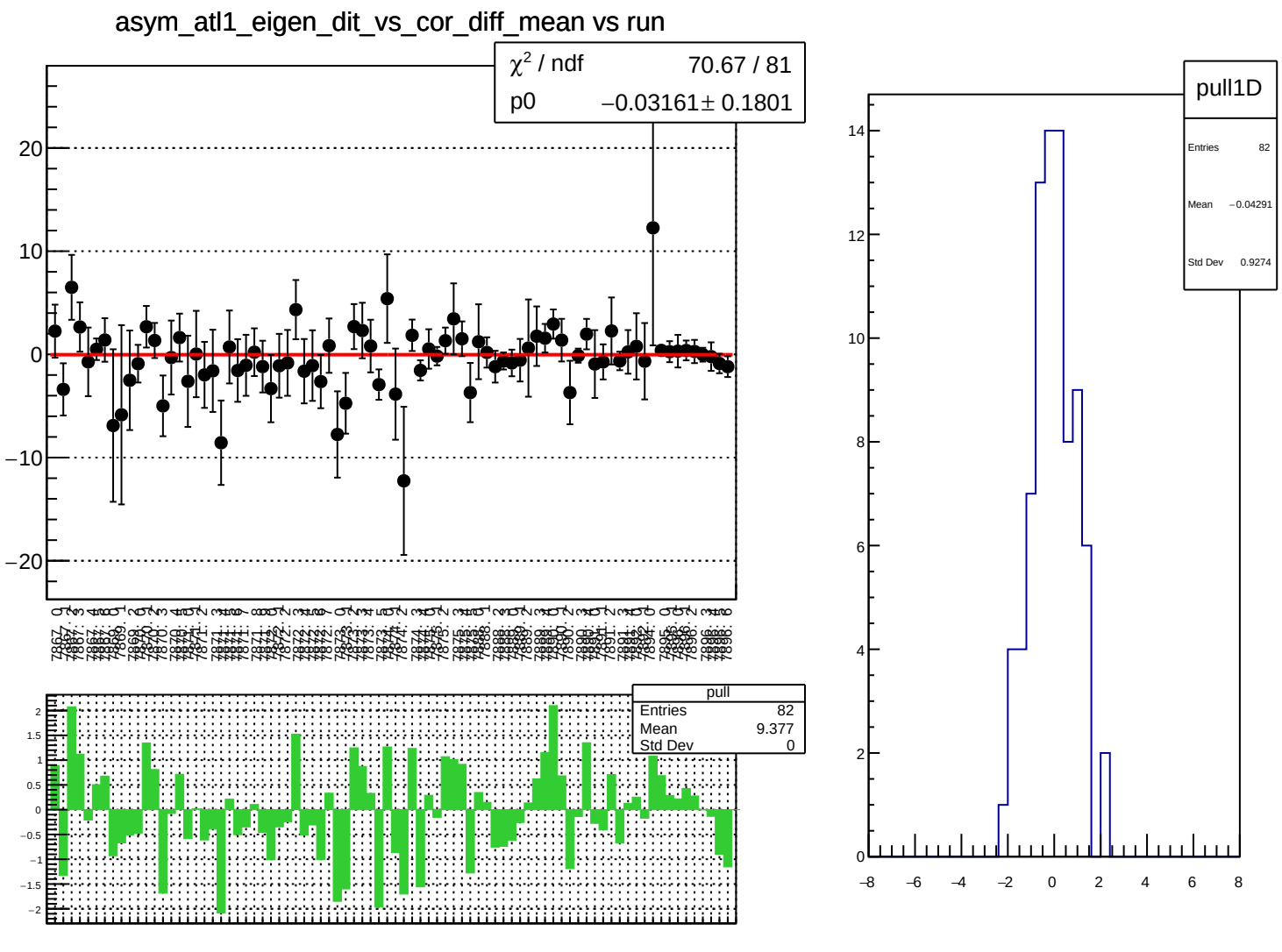

pull1D
Entries 82
Mean −0.04291
Std Dev 0.9274

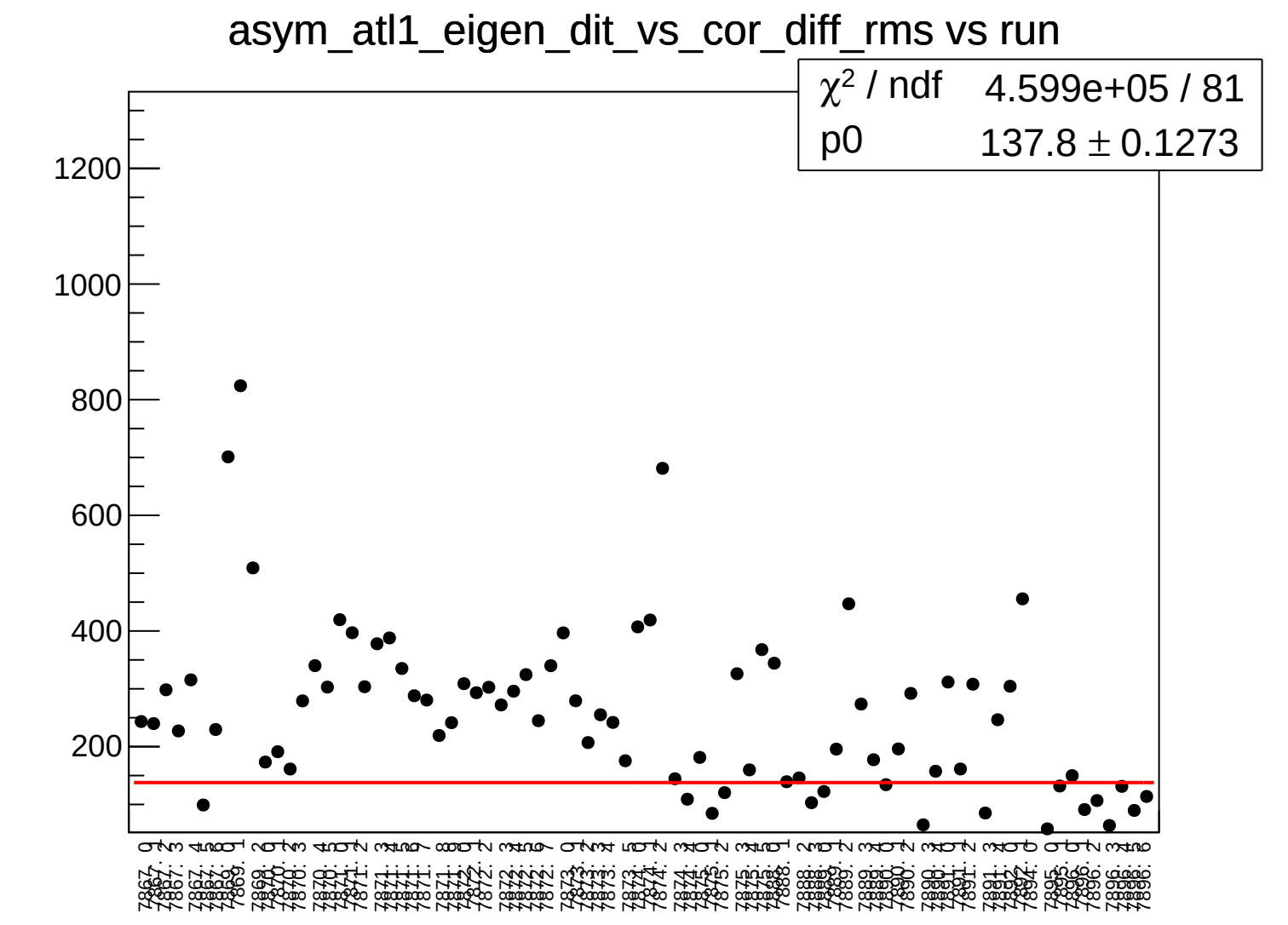

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.599e+05 / 81
p0 137.8 ± 0.1273
1200
1000
800
600
400
200

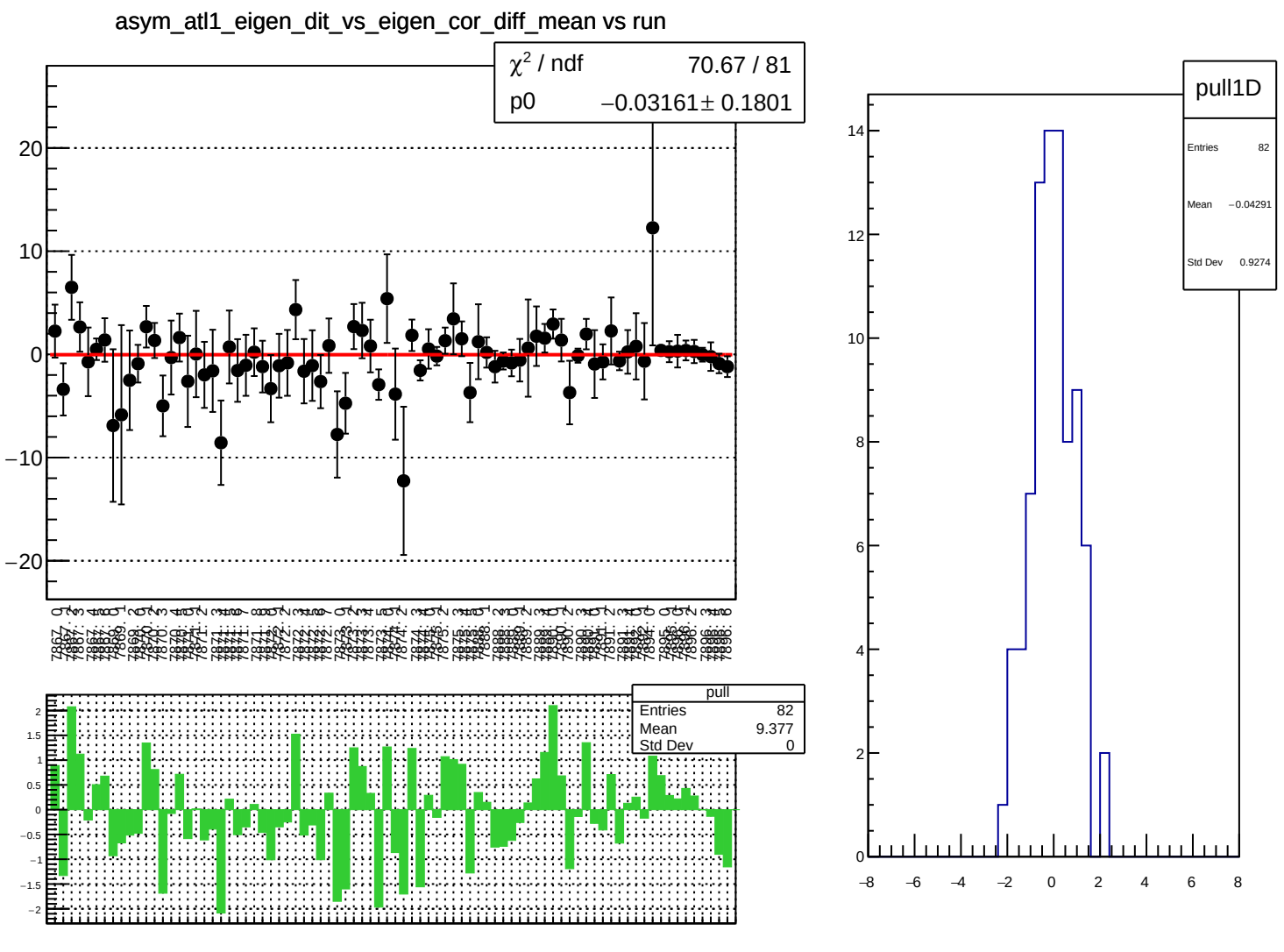

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.07 / 81
p0 1.881e−06 ± 1.878e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −153.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

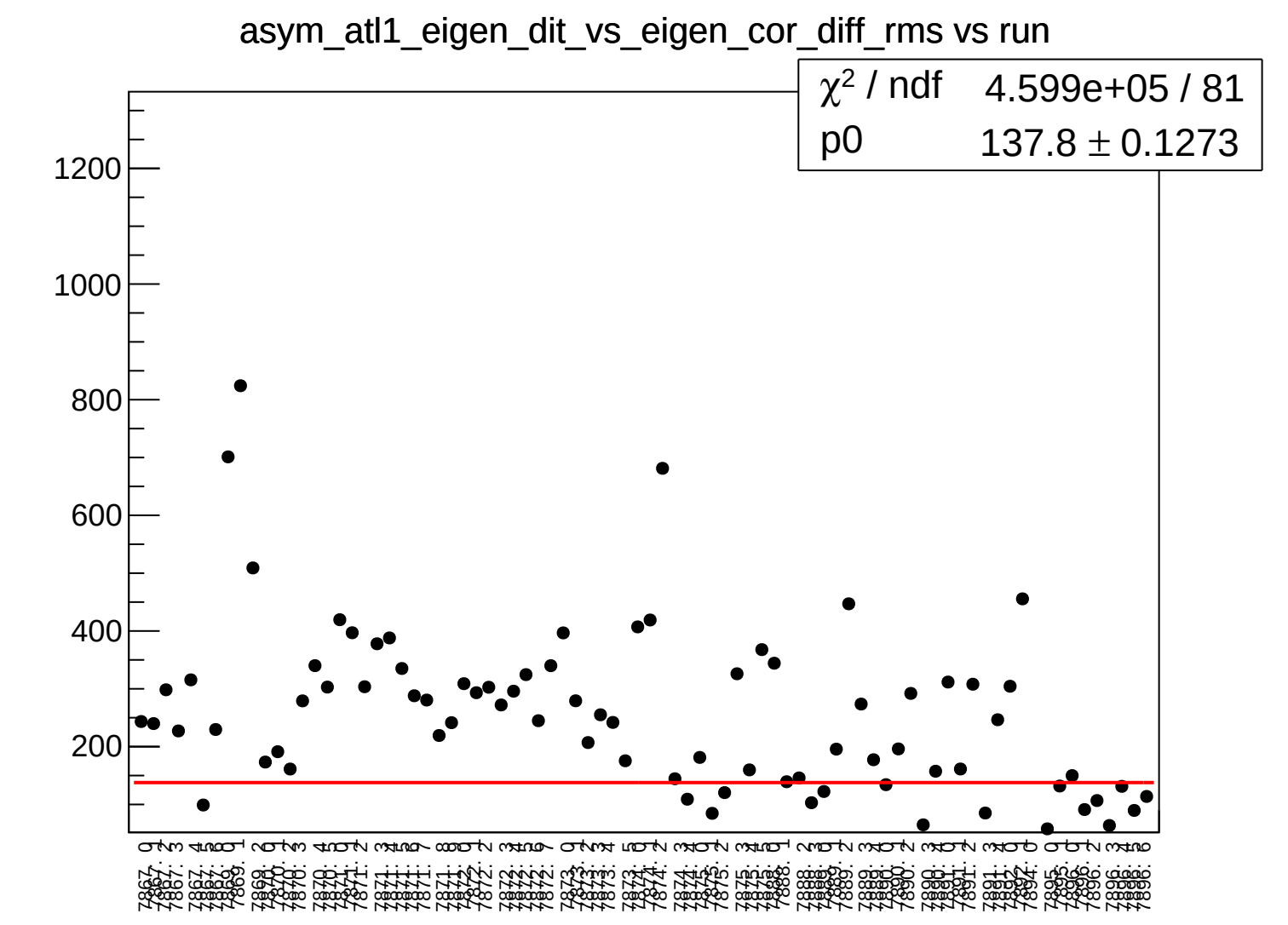

pull1D
Entries 82
Mean 0.0105
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

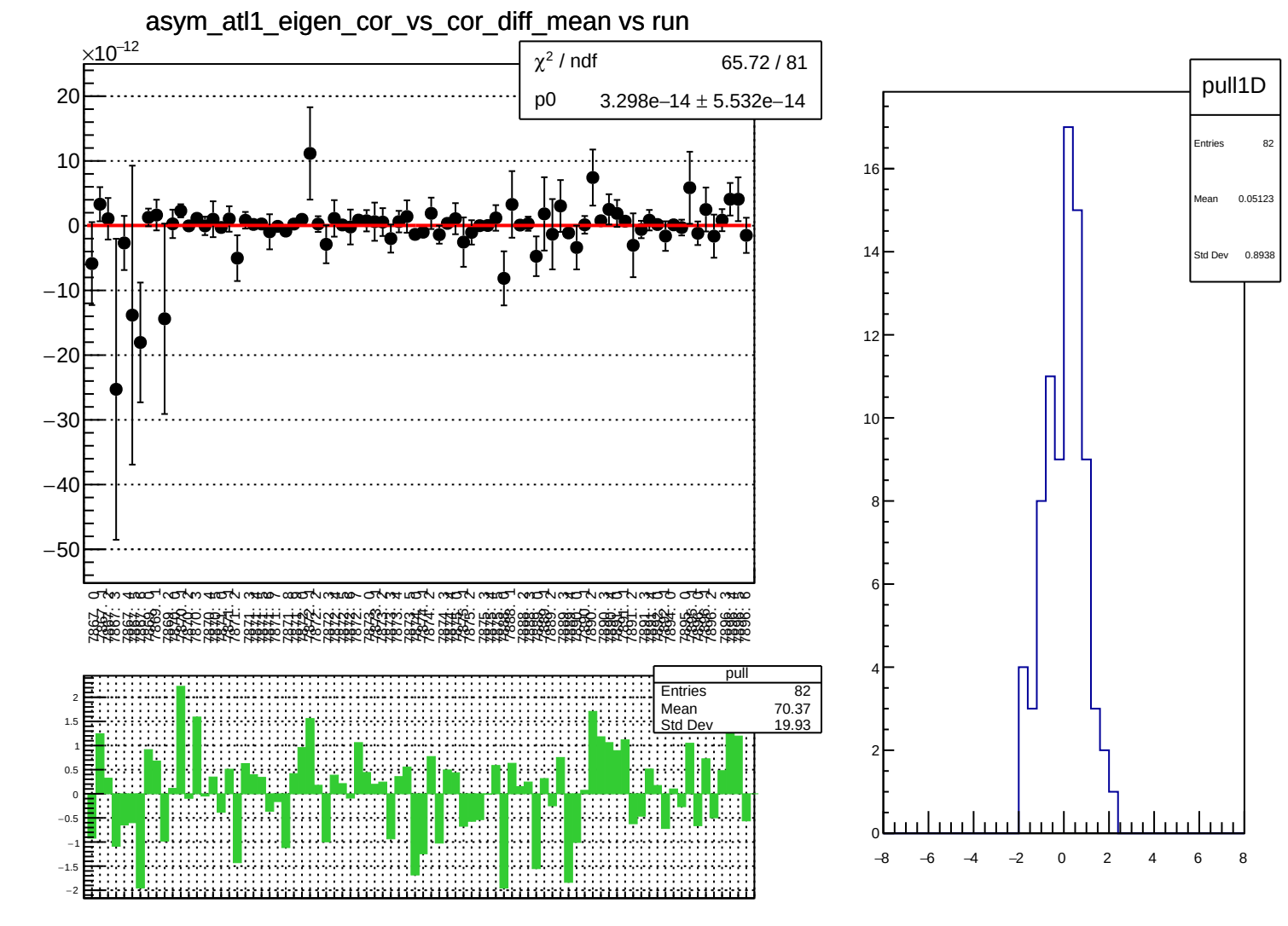

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.59e+04 / 81
p0 0.001646 ± 1.328e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

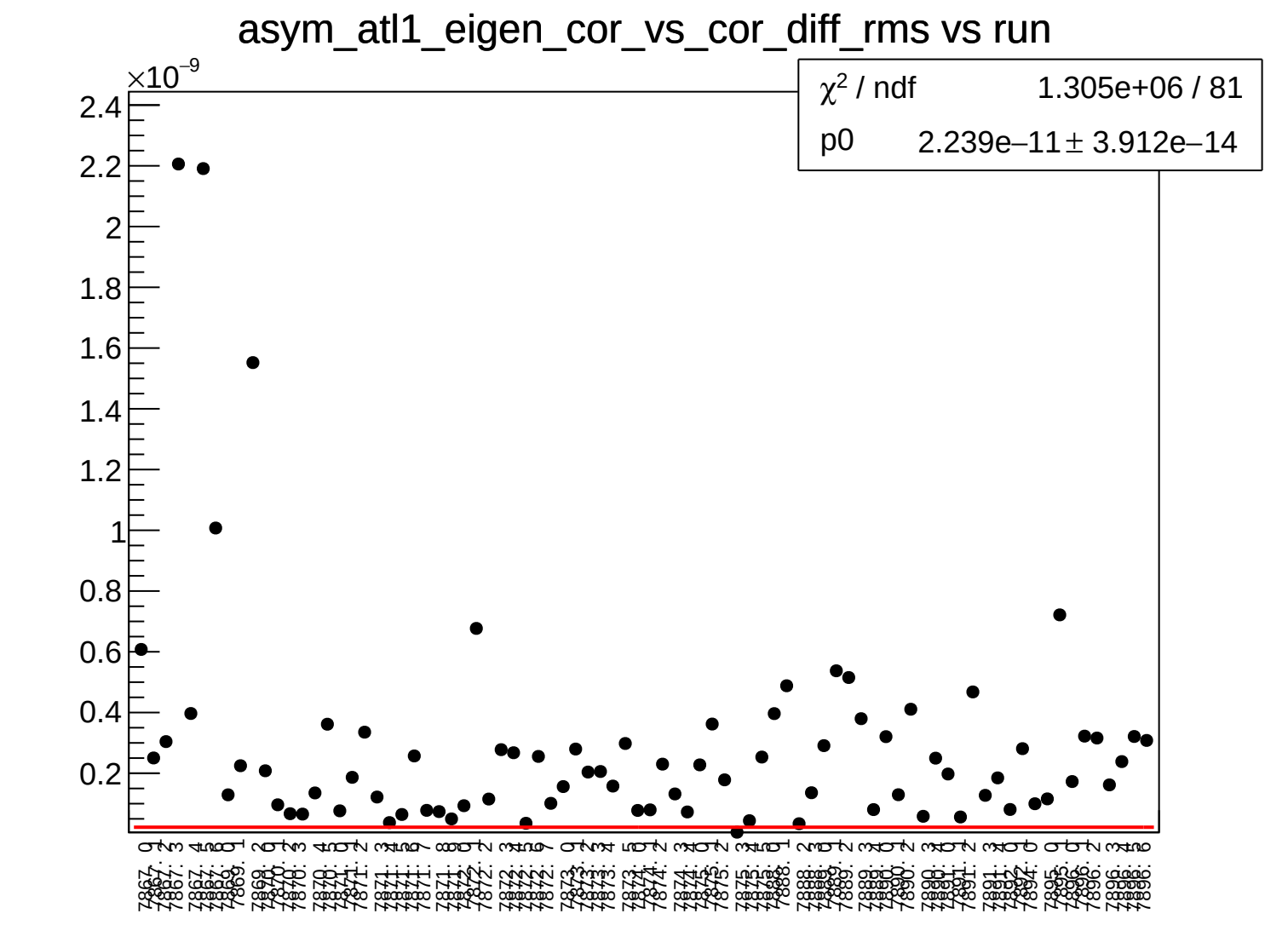

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.67 / 81
p0 −0.03161 ± 0.1801
pull
Entries 82
Mean 9.377
Std Dev 0
pull1D
Entries 82
Mean −0.04291
Std Dev 0.9274

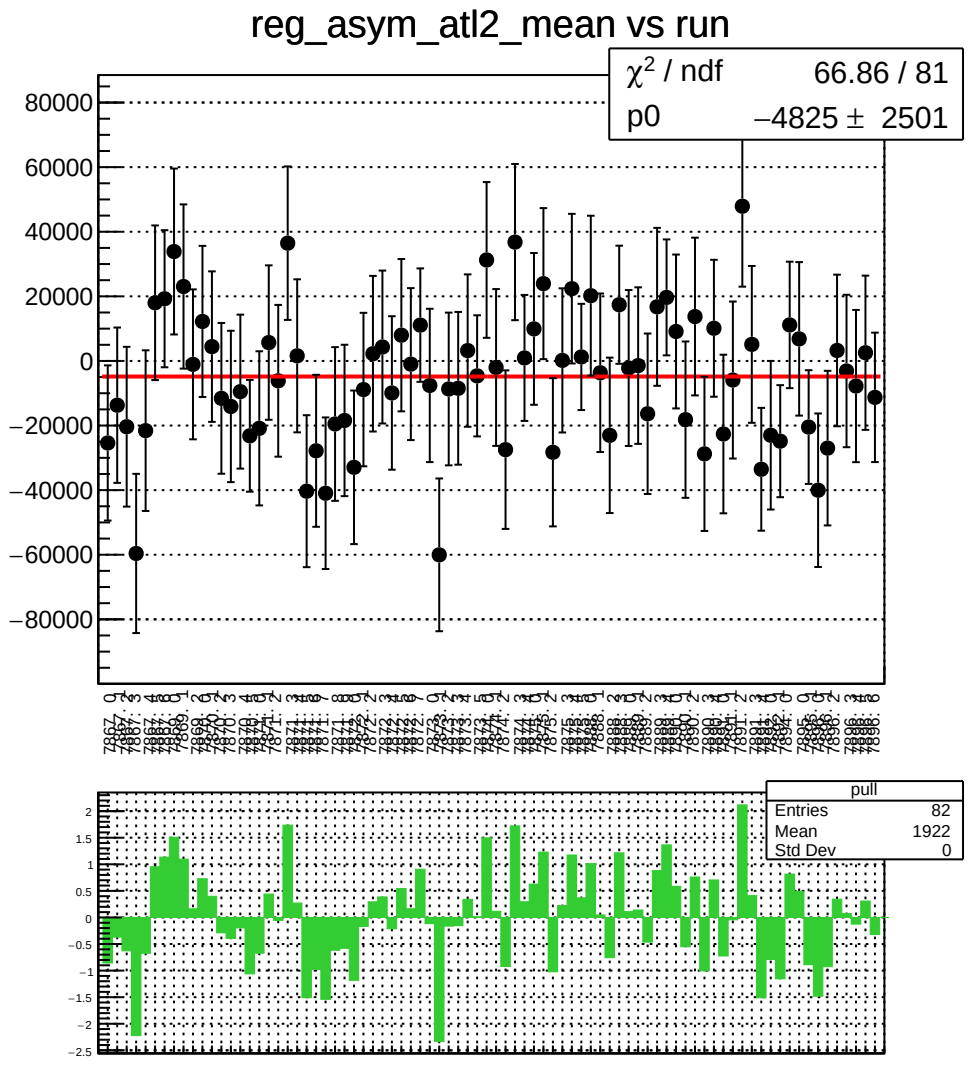

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.599e+05 / 81
p0 137.8 ± 0.1273
1200
1000
800
600
400
200

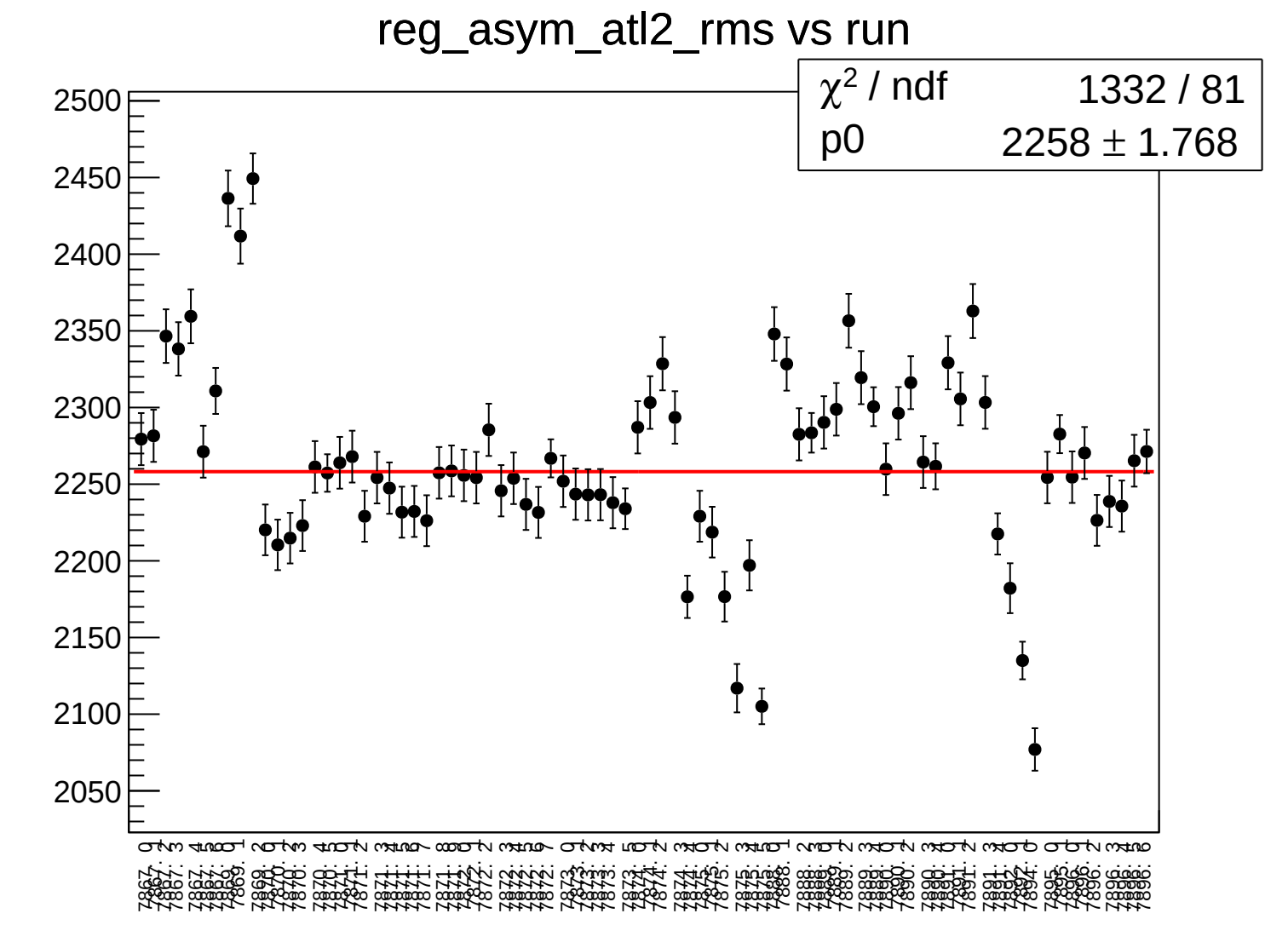

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.67 / 81
p0 −0.03161 ± 0.1801
pull
Entries 82
Mean 9.377
Std Dev 0
pull1D
Entries 82
Mean −0.04291
Std Dev 0.9274

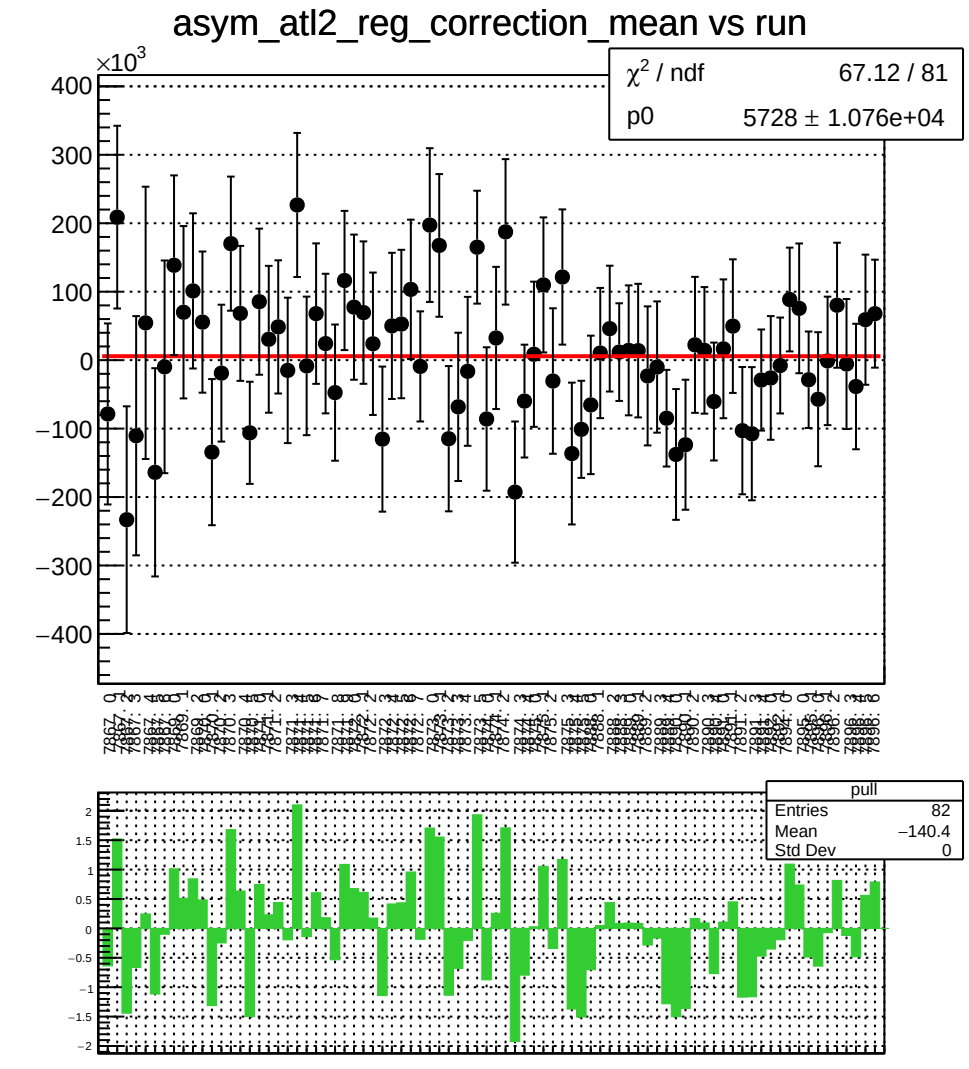

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.599e+05 / 81
p0 137.8 ± 0.1273
1200
1000
800
600
400
200

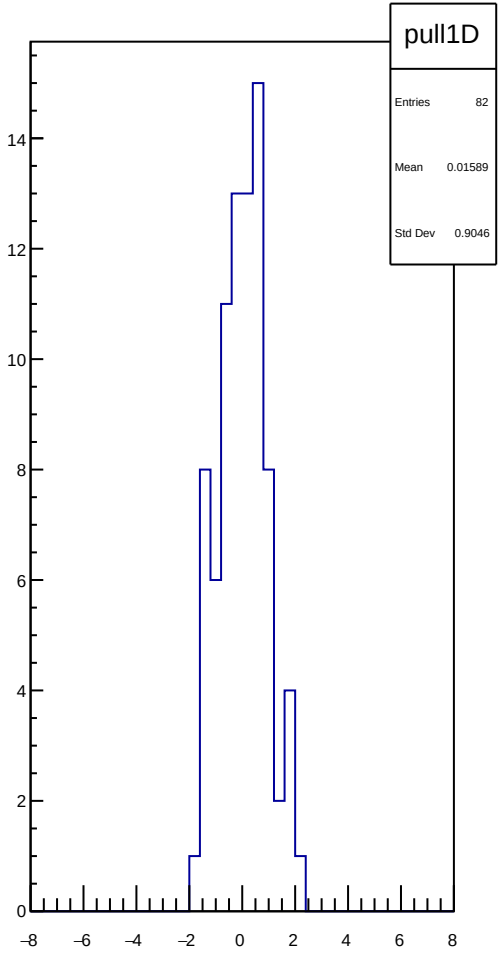

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.72 / 81
p0 3.298e−14 ± 5.532e−14
pull
Entries 82
Mean 70.37
Std Dev 19.93
pull1D
Entries 82
Mean 0.05123
Std Dev 0.8938

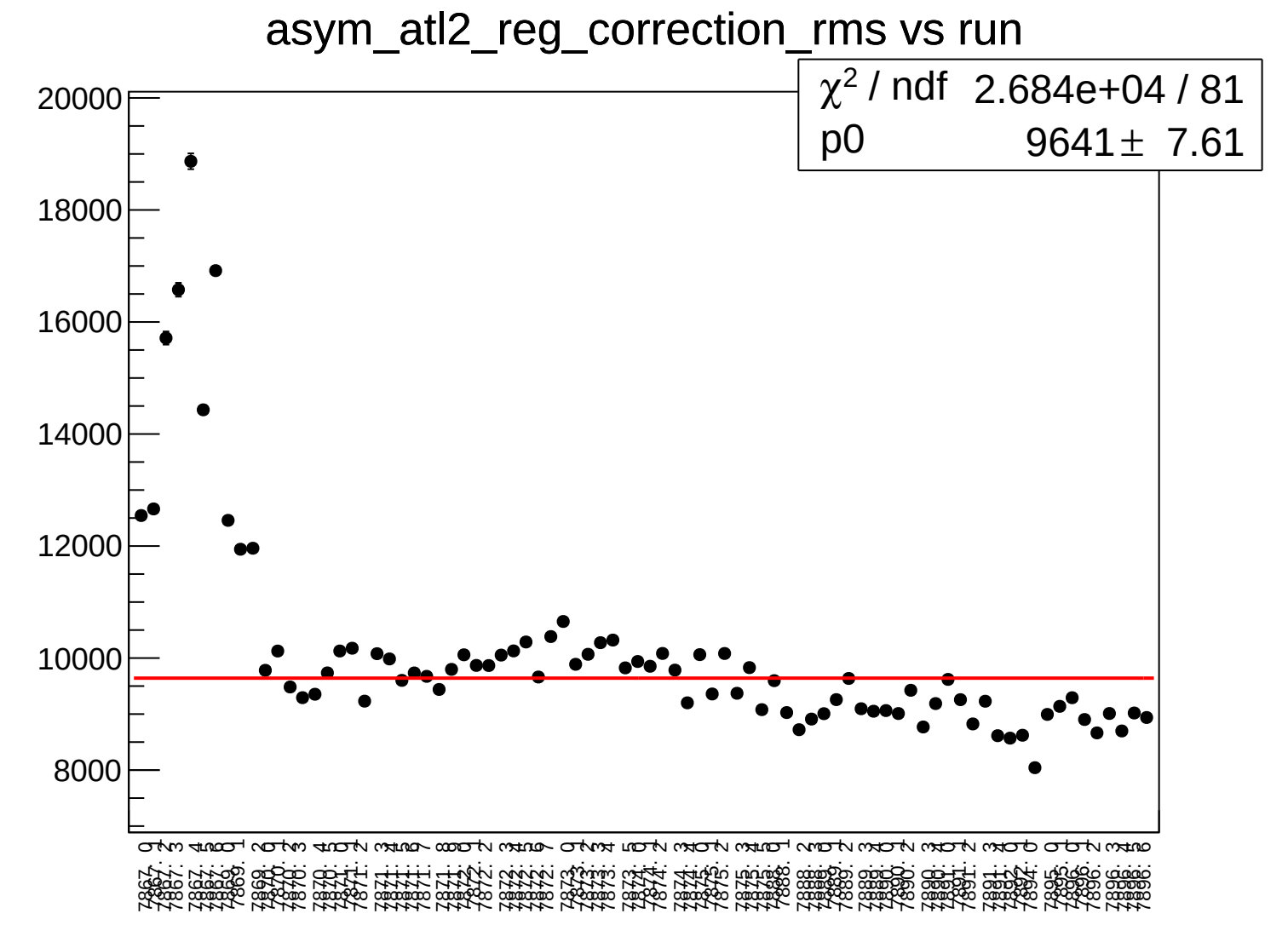

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.305e+06 / 81
p0 2.239e−11 ± 3.912e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

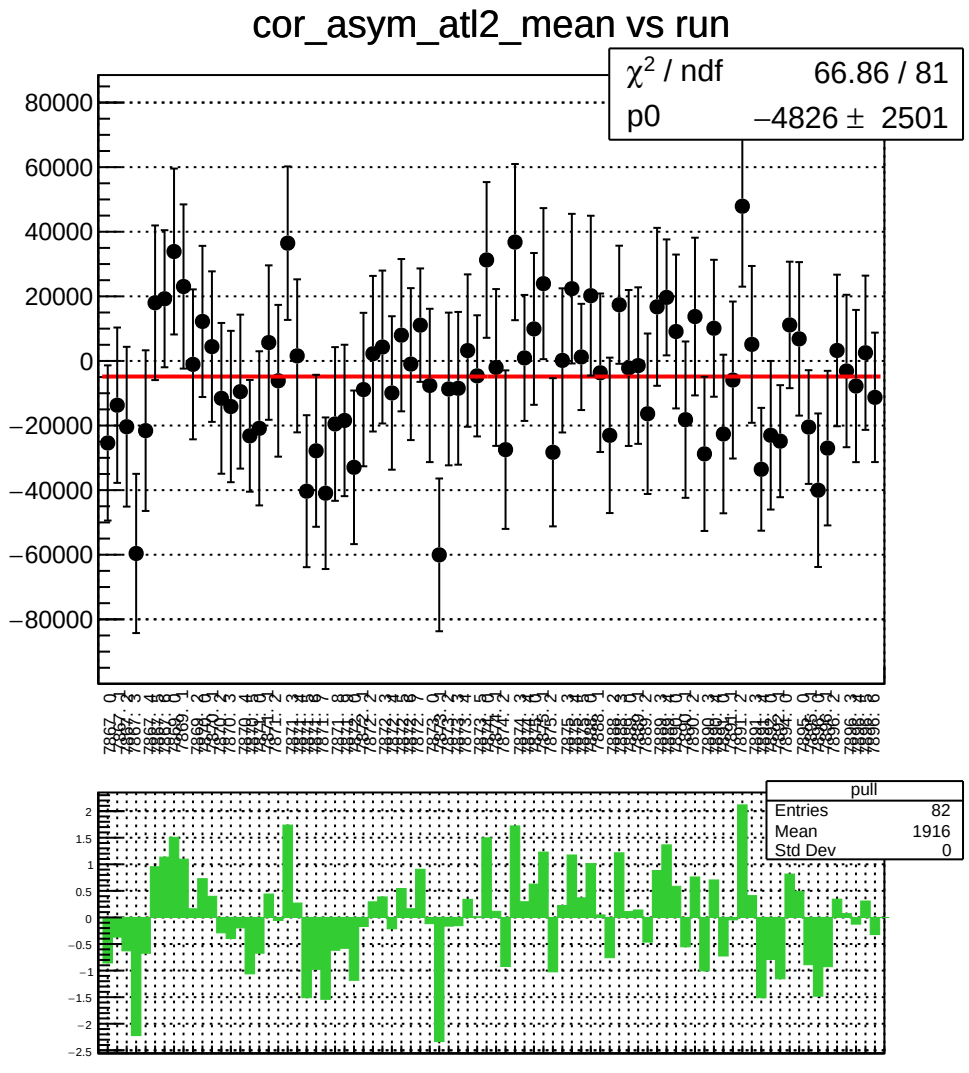

reg_asym_atl2_mean vs run
χ² / ndf 66.86 / 81
p0 −4825 ± 2501
pull
Entries 82
Mean 1922
Std Dev 0
pull1D
Entries 82
Mean 0.0005061
Std Dev 0.903

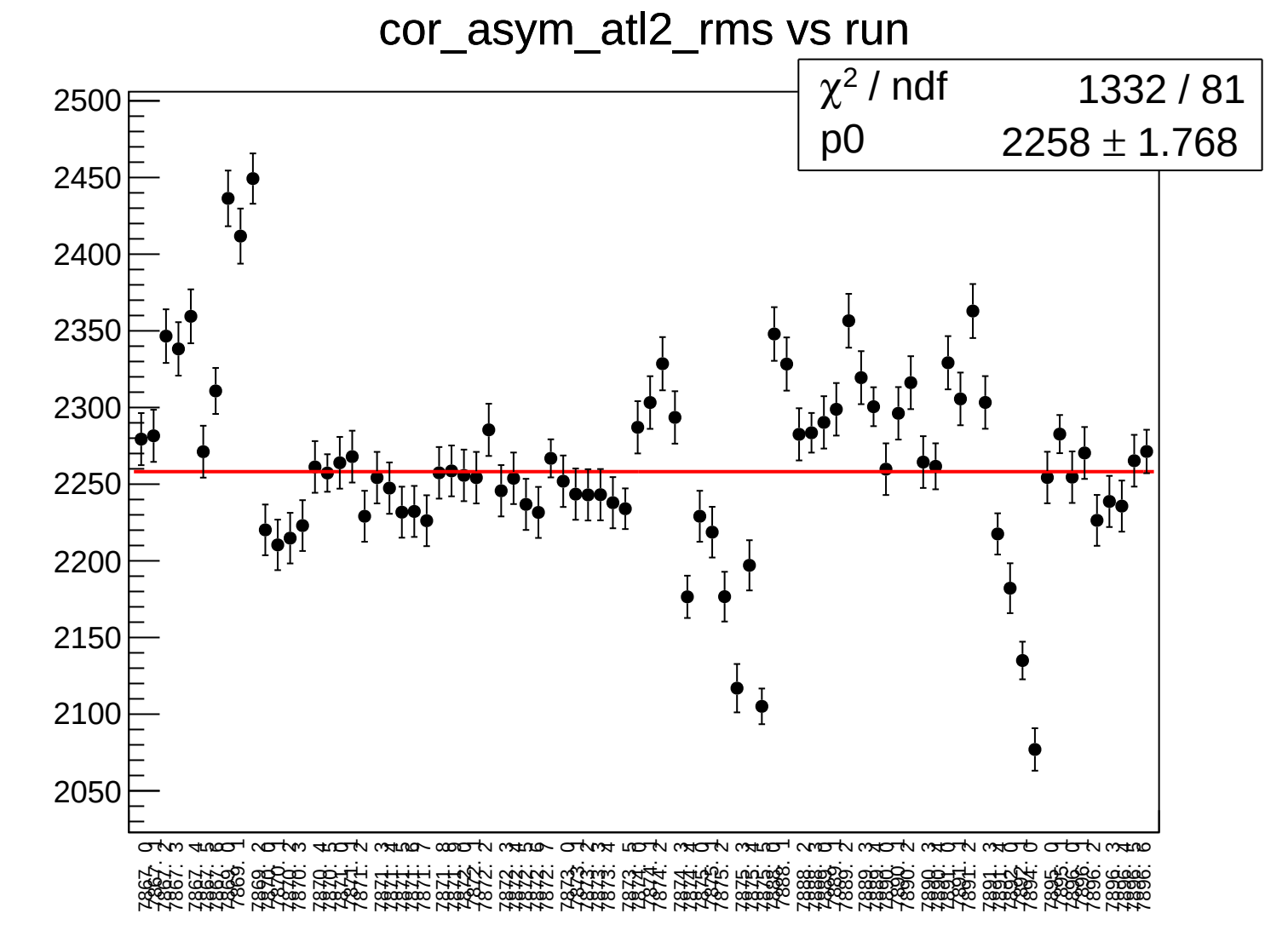

reg_asym_atl2_rms vs run
χ² / ndf 1332 / 81
p0 2258 ± 1.768
2500
2450
2400
2350
2300
2250
2200
2150
2100
2050

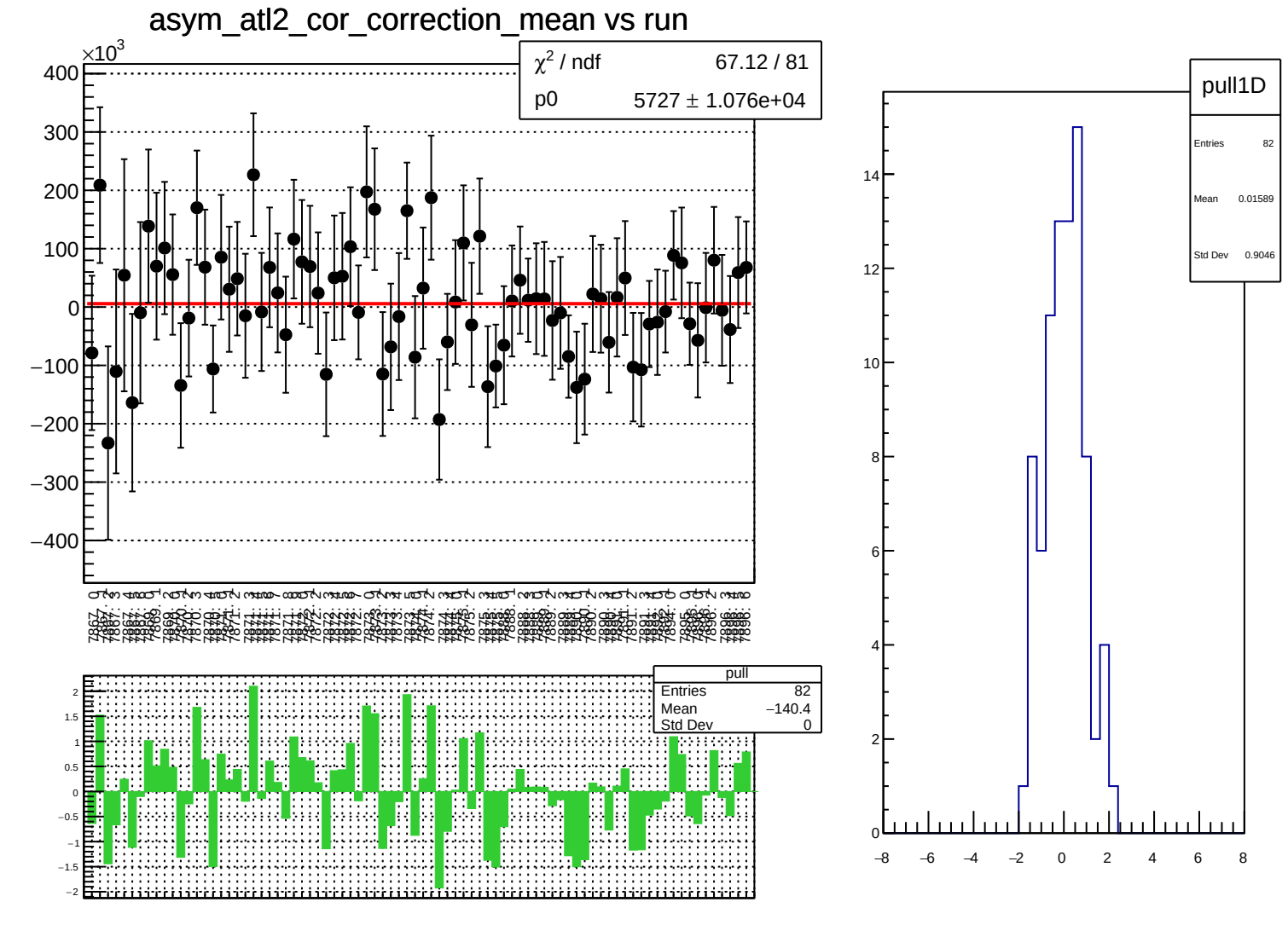

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 67.12 / 81
p0 5728 ± 1.076e+04
pull
Entries 82
Mean −140.4
Std Dev 0

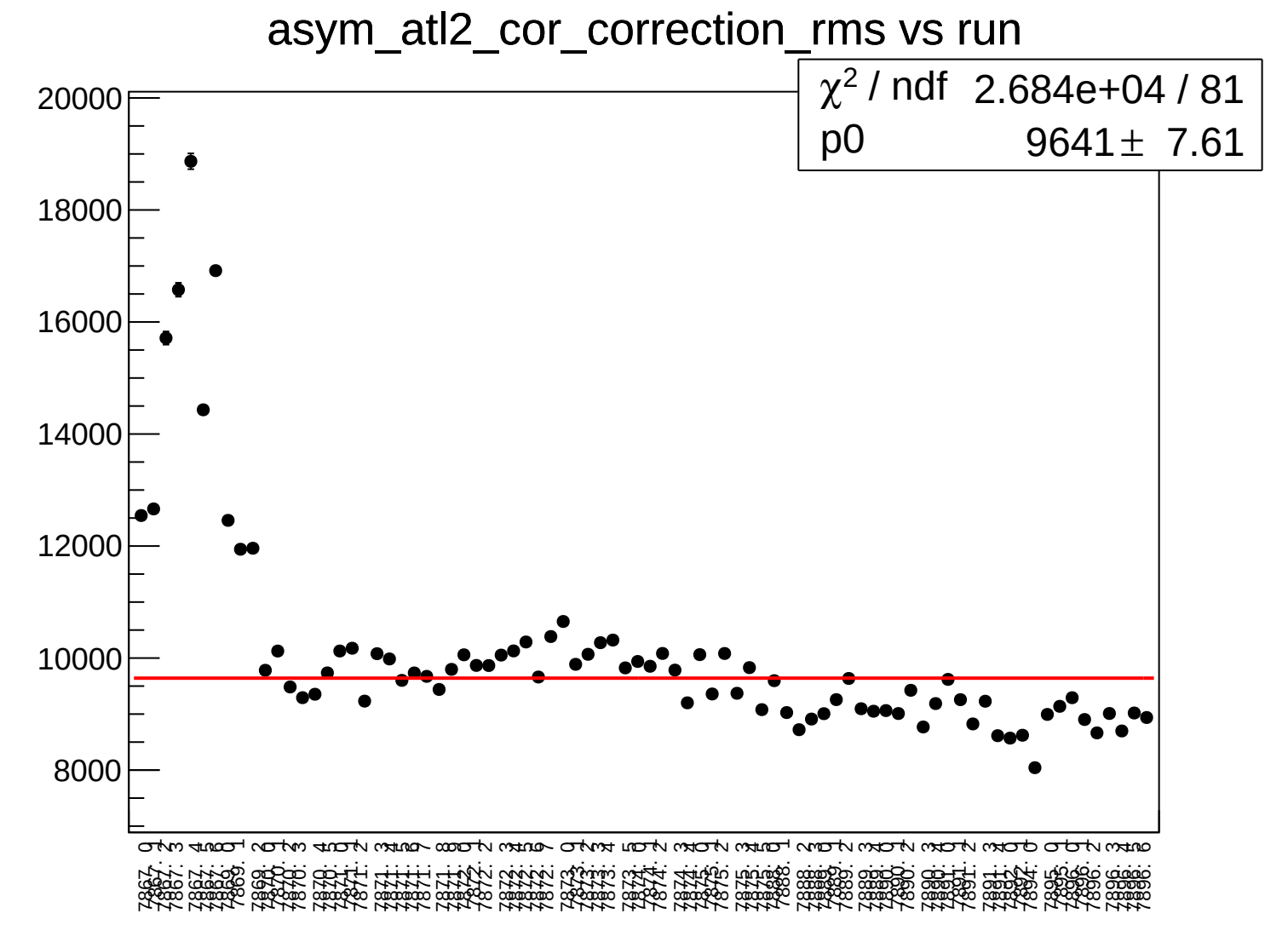

pull1D
Entries 82
Mean 0.01589
Std Dev 0.9046

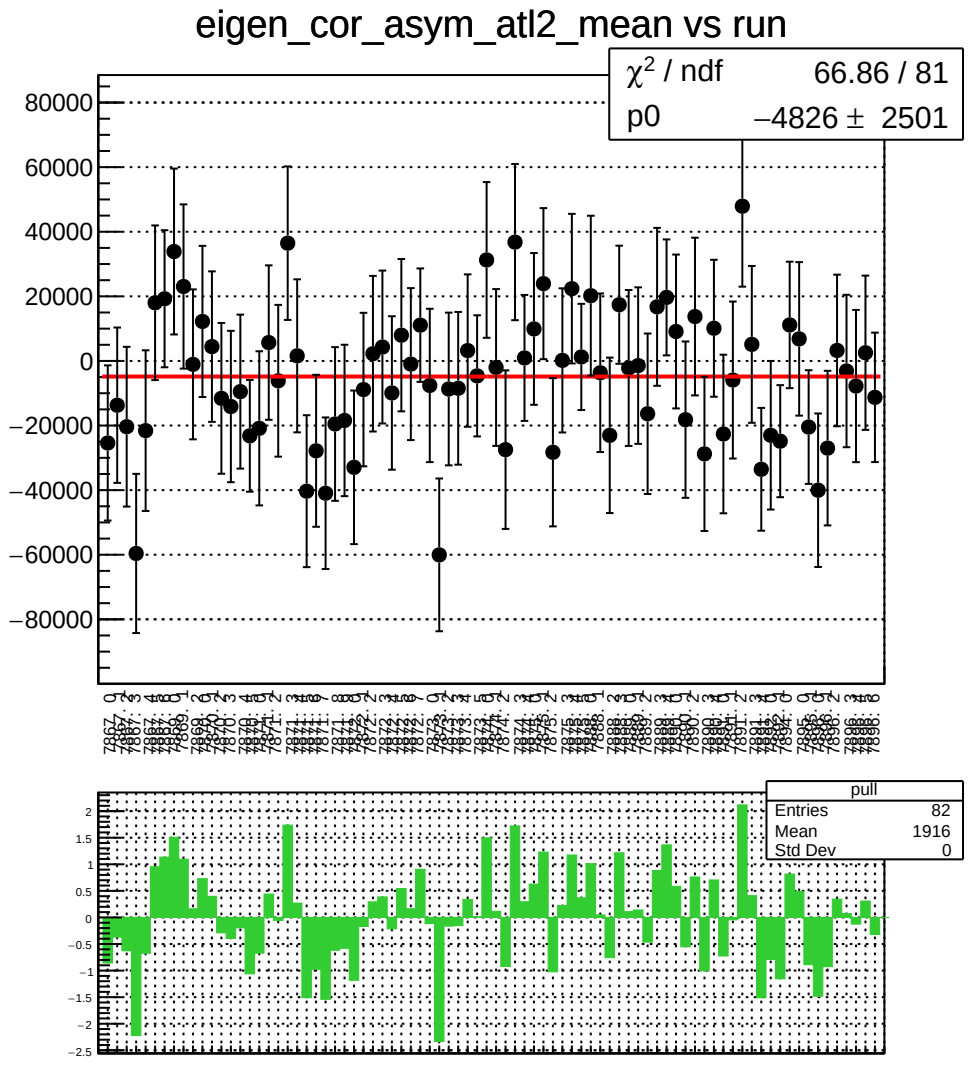

asym_atl2_reg_correction_rms vs run
χ² / ndf 2.684e+04 / 81
p0 9641 ± 7.61
20000
18000
16000
14000
12000
10000
8000

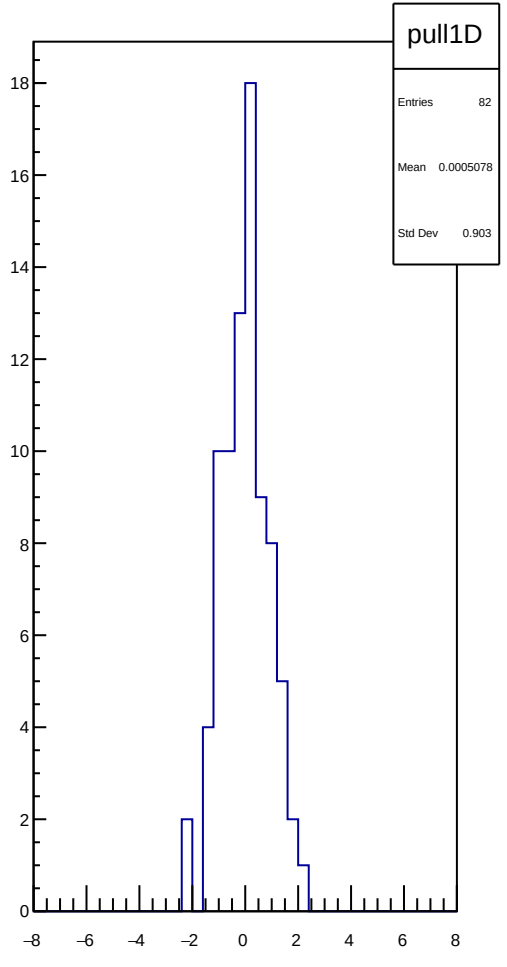

cor_asym_atl2_mean vs run
χ² / ndf 66.86 / 81
p0 −4826 ± 2501
pull
Entries 82
Mean 1916
Std Dev 0
pull1D
Entries 82
Mean 0.0005078
Std Dev 0.903

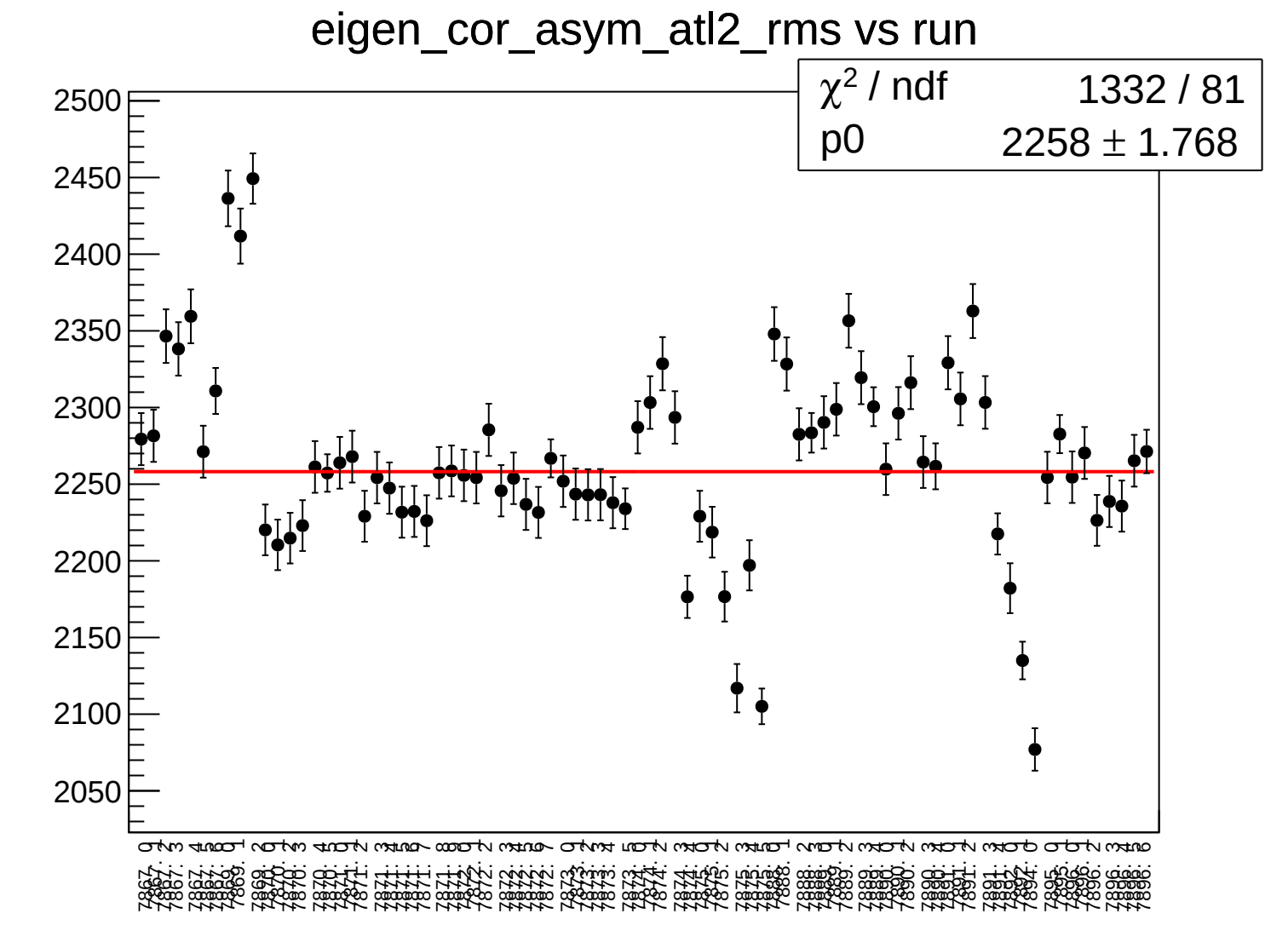

cor_asym_atl2_rms vs run
χ² / ndf 1332 / 81
p0 2258 ± 1.768
2500
2450
2400
2350
2300
2250
2200
2150
2100
2050

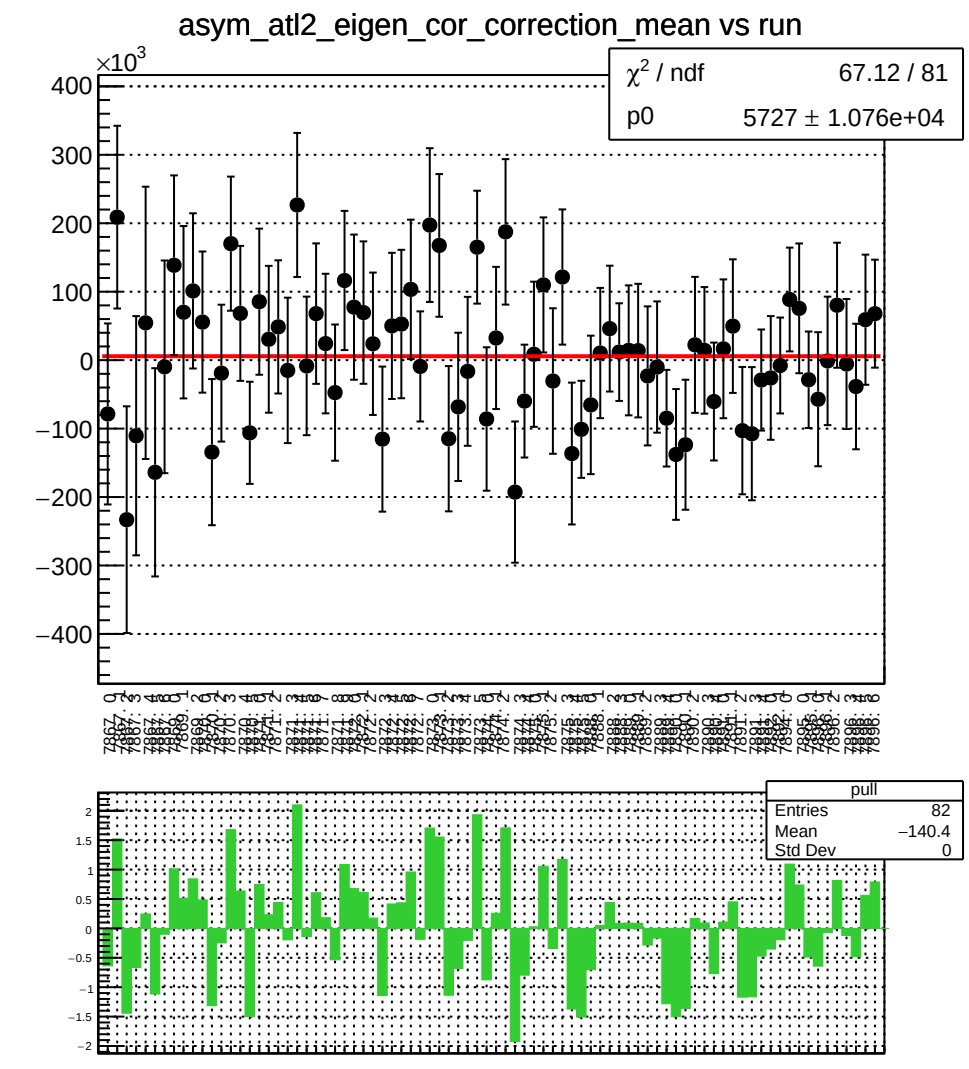

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 67.12 / 81
p0 5727 ± 1.076e+04
pull
Entries 82
Mean −140.4
Std Dev 0
pull1D
Entries 82
Mean 0.01589
Std Dev 0.9046

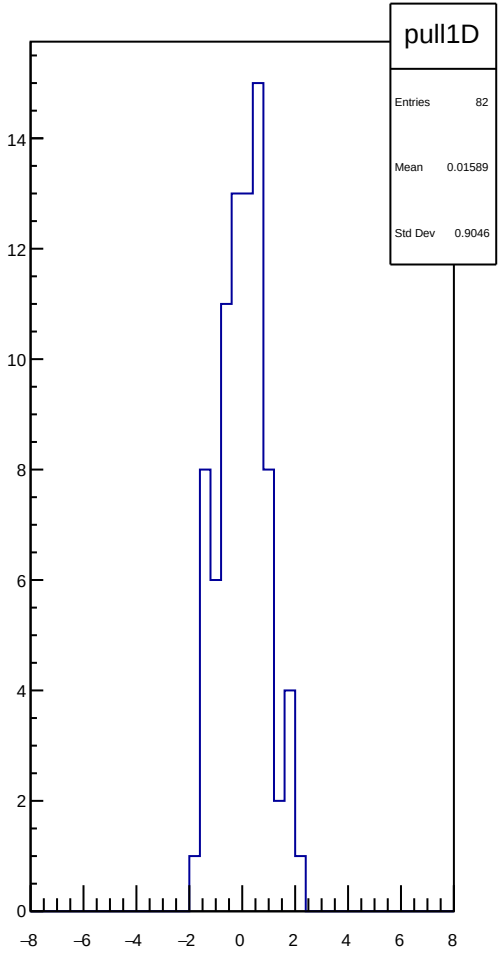

asym_atl2_cor_correction_rms vs run
χ² / ndf 2.684e+04 / 81
p0 9641 ± 7.61
20000
18000
16000
14000
12000
10000
8000

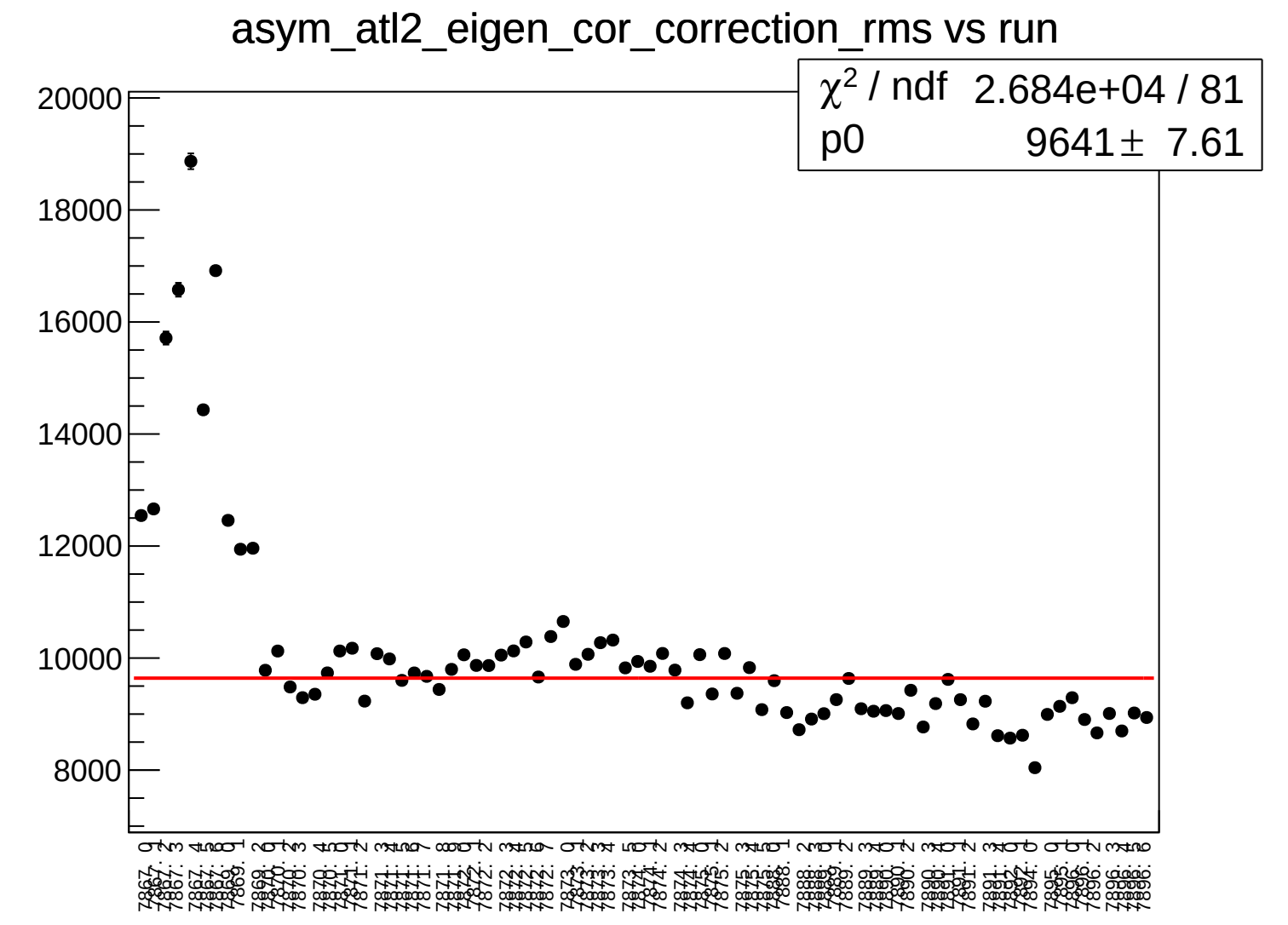

eigen_cor_asym_atl2_mean vs run
χ² / ndf 66.86 / 81
p0 −4826 ± 2501
pull
Entries 82
Mean 1916
Std Dev 0

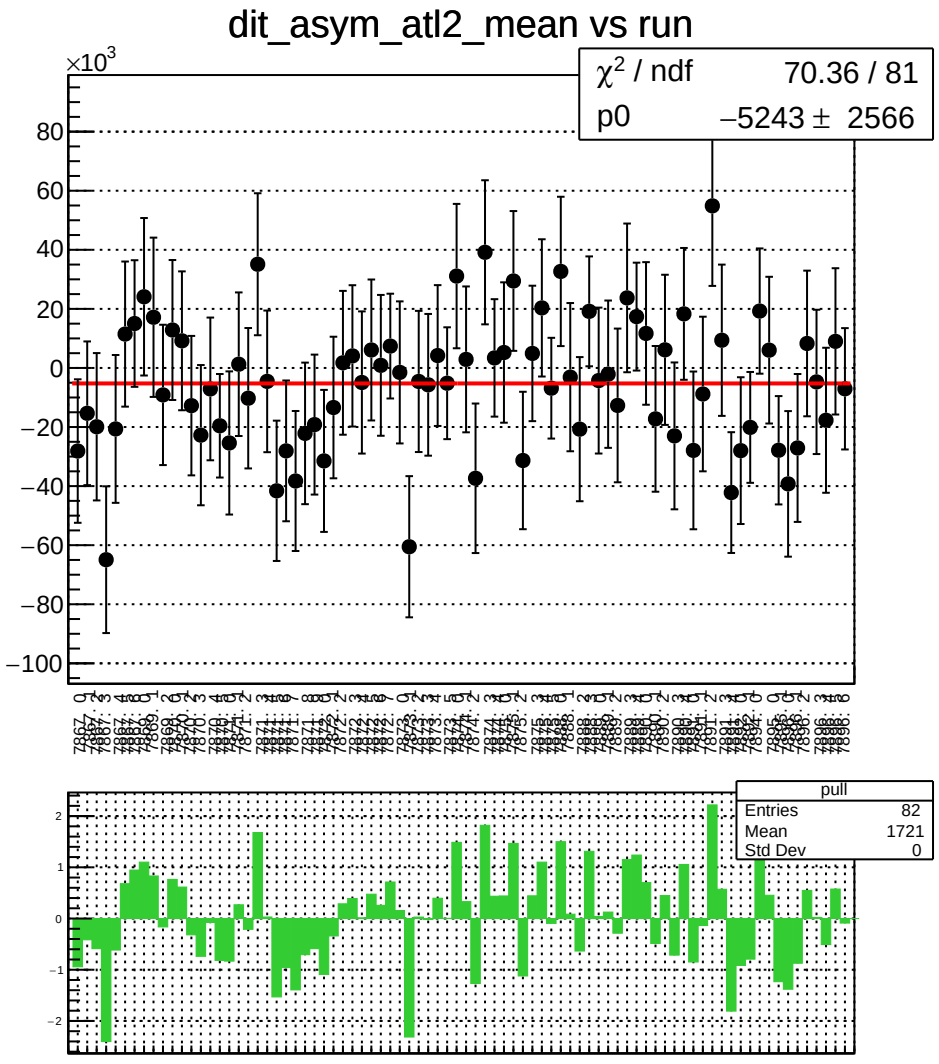

pull1D
Entries 82
Mean 0.0005078
Std Dev 0.903

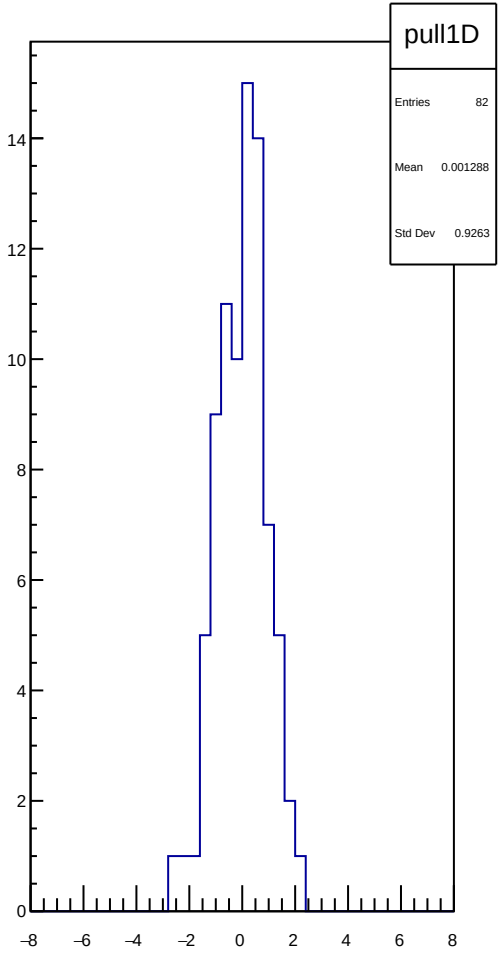

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1332 / 81
p0 2258 ± 1.768
2500
2450
2400
2350
2300
2250
2200
2150
2100
2050

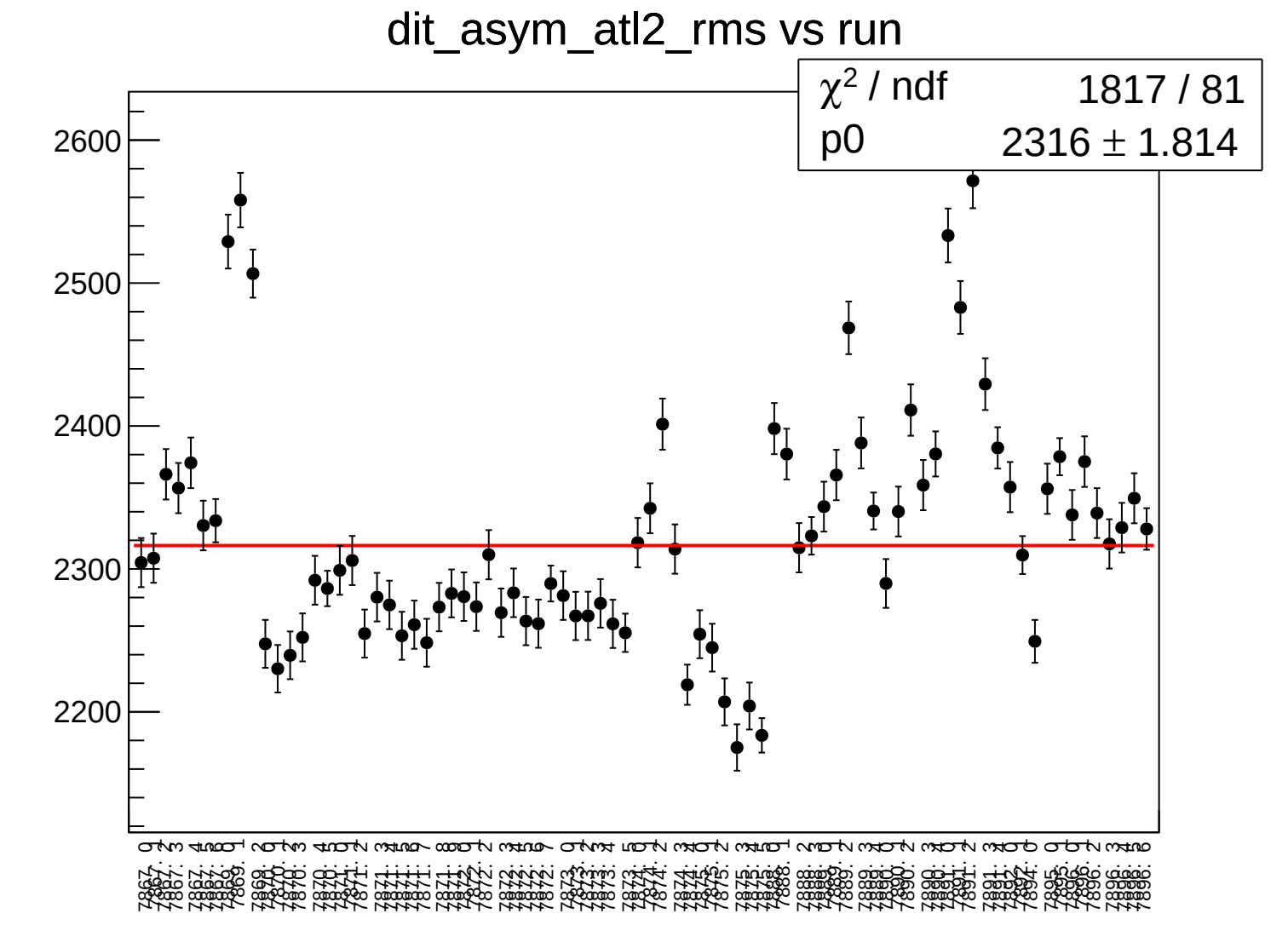

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.12 / 81
p0 5727 ± 1.076e+04
pull
Entries 82
Mean −140.4
Std Dev 0

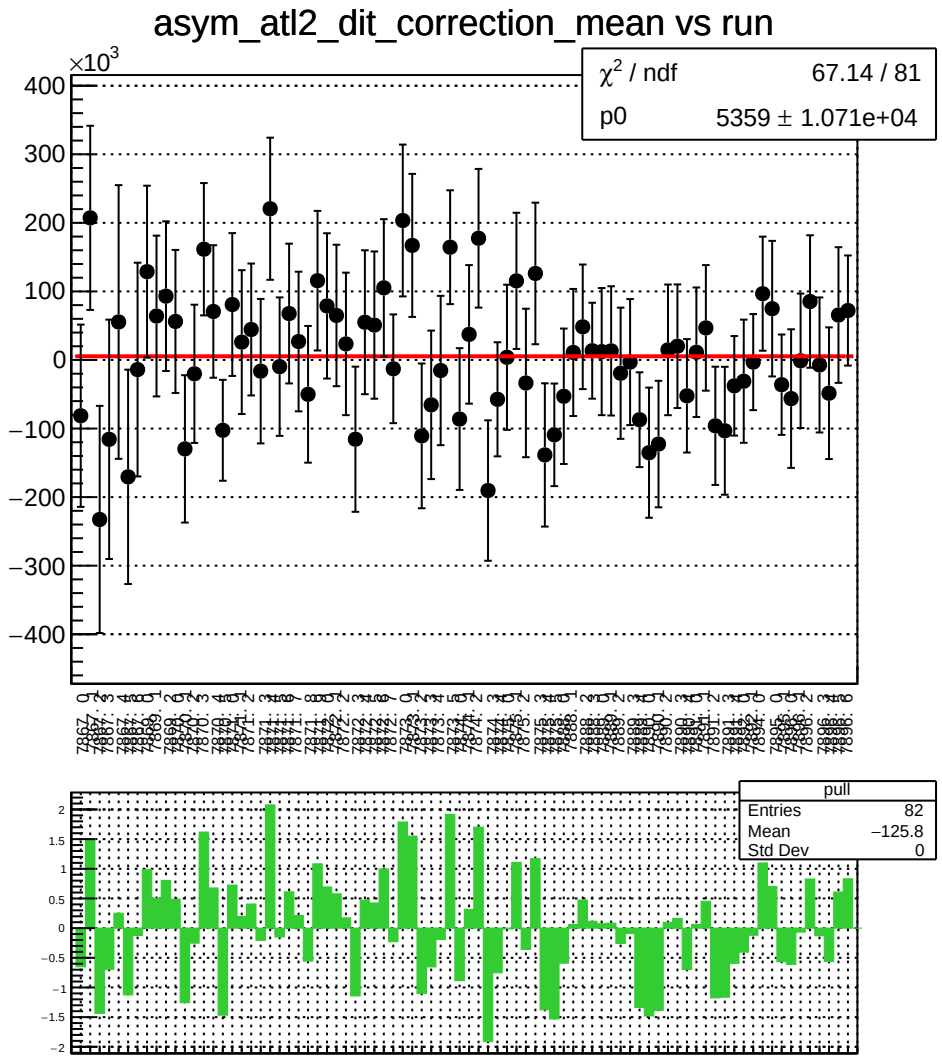

pull1D
Entries 82
Mean 0.01589
Std Dev 0.9046

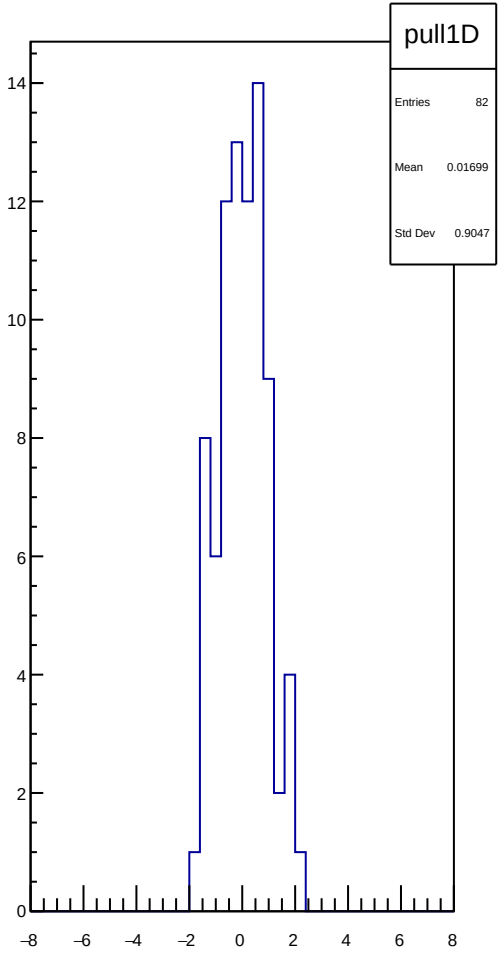

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2.684e+04 / 81
p0 9641 ± 7.61
20000
18000
16000
14000
12000
10000
8000

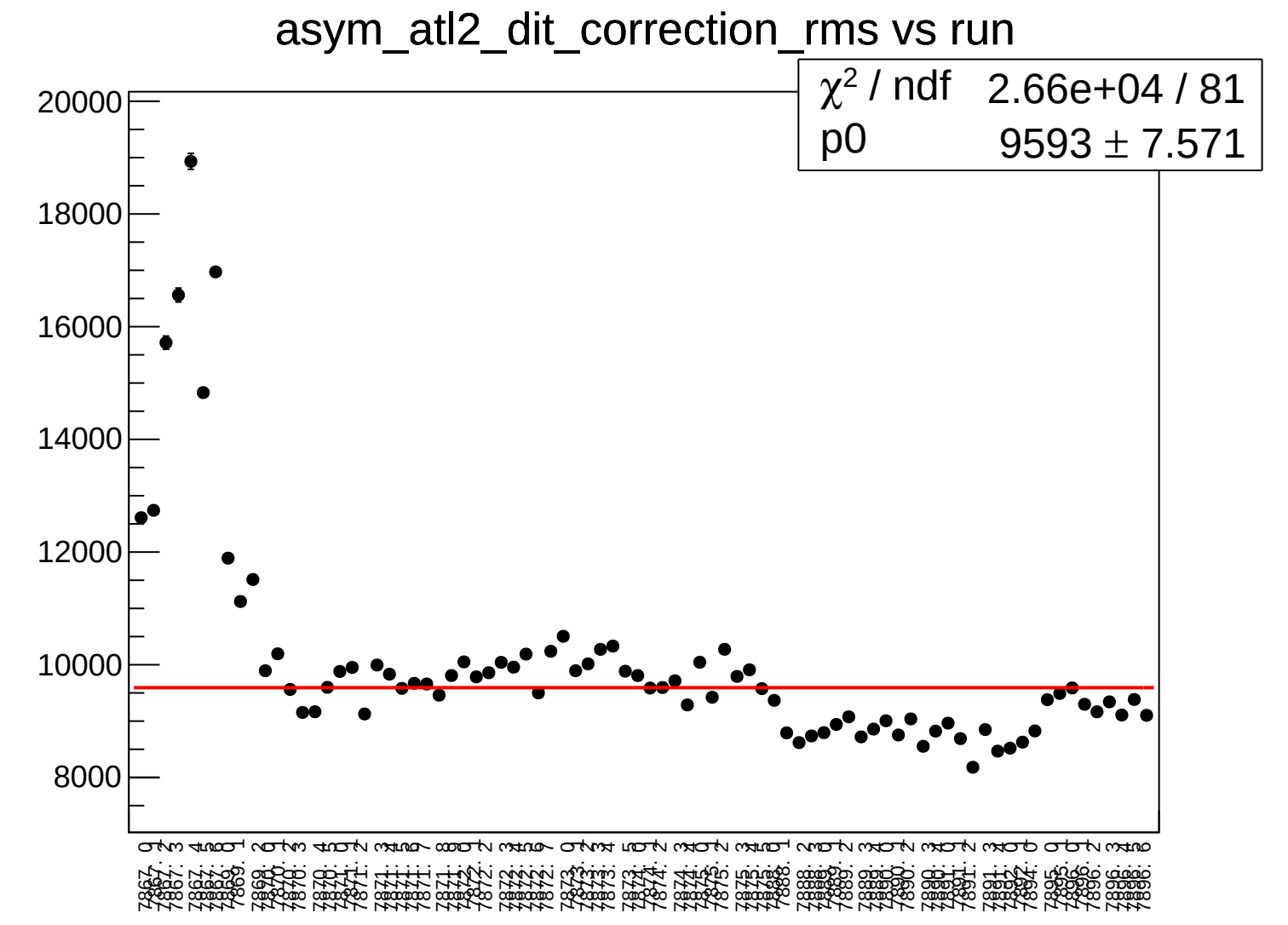

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 70.36 / 81
p0 −5243 ± 2566
pull
Entries 82
Mean 1721
Std Dev 0

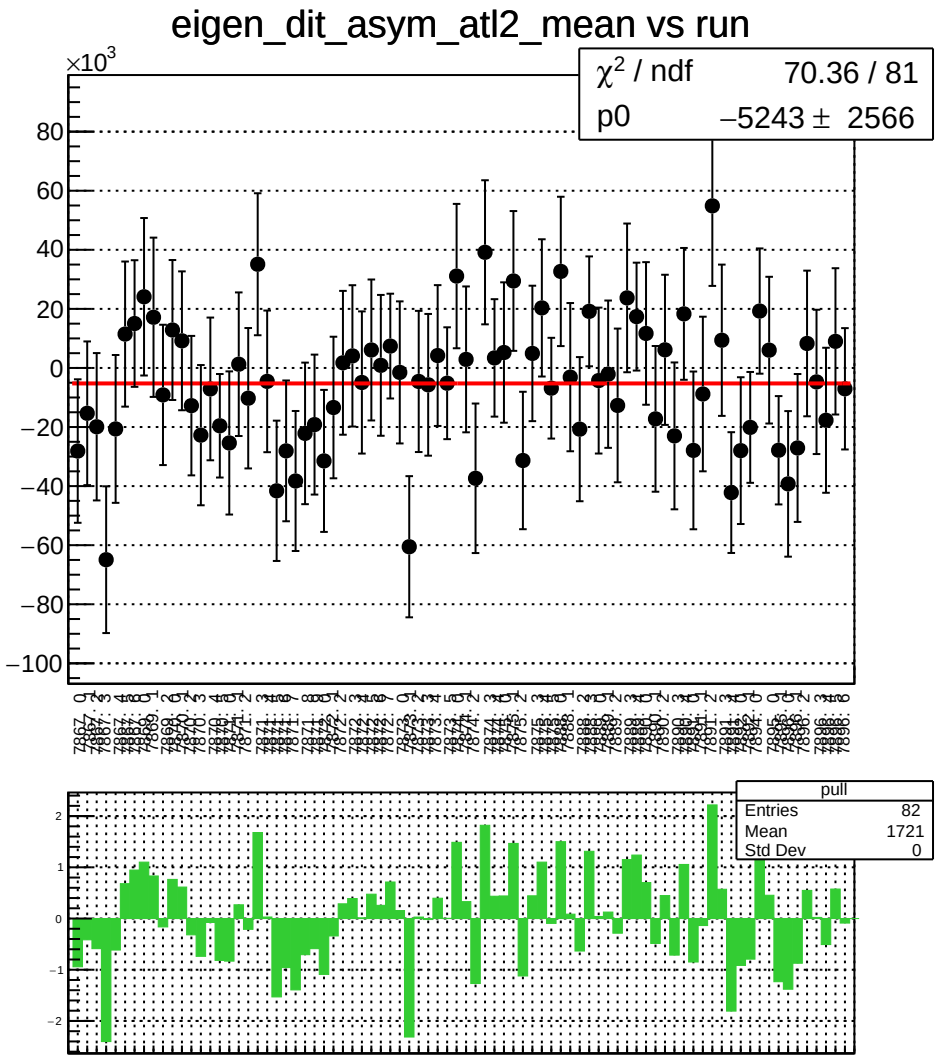

pull1D
Entries 82
Mean 0.001288
Std Dev 0.9263

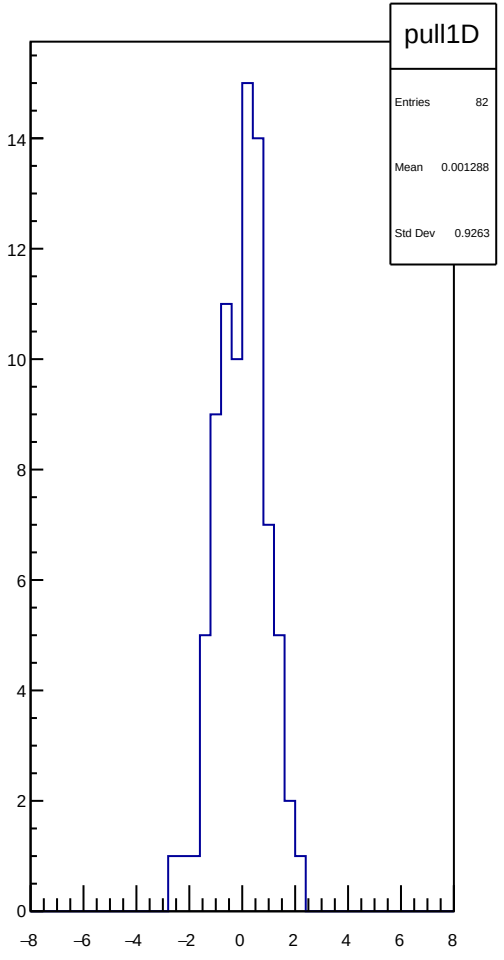

dit_asym_atl2_rms vs run
χ² / ndf 1817 / 81
p0 2316 ± 1.814
2600
2500
2400
2300
2200

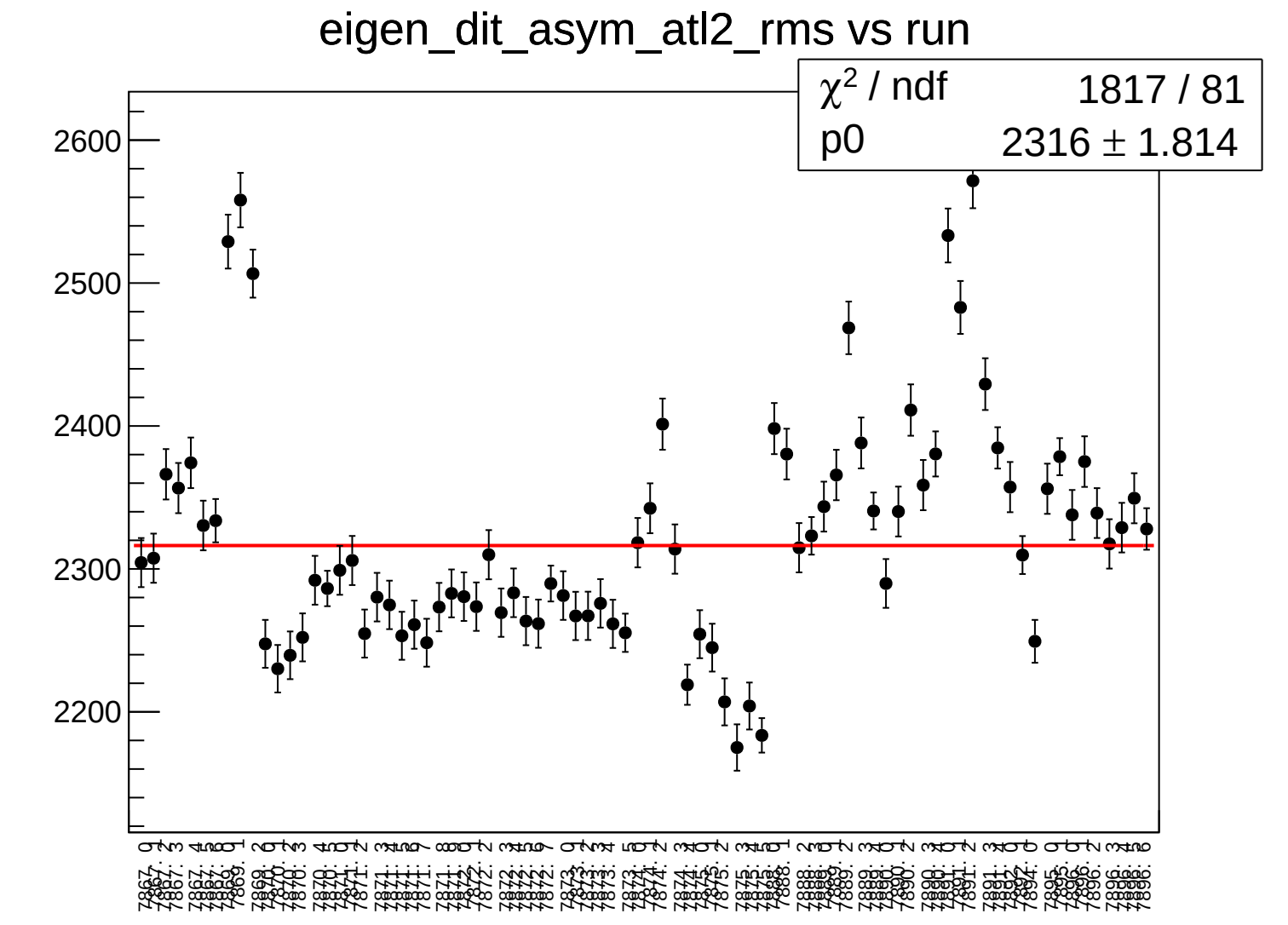

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 67.14 / 81
p0 5359 ± 1.071e+04
pull
Entries 82
Mean −125.8
Std Dev 0

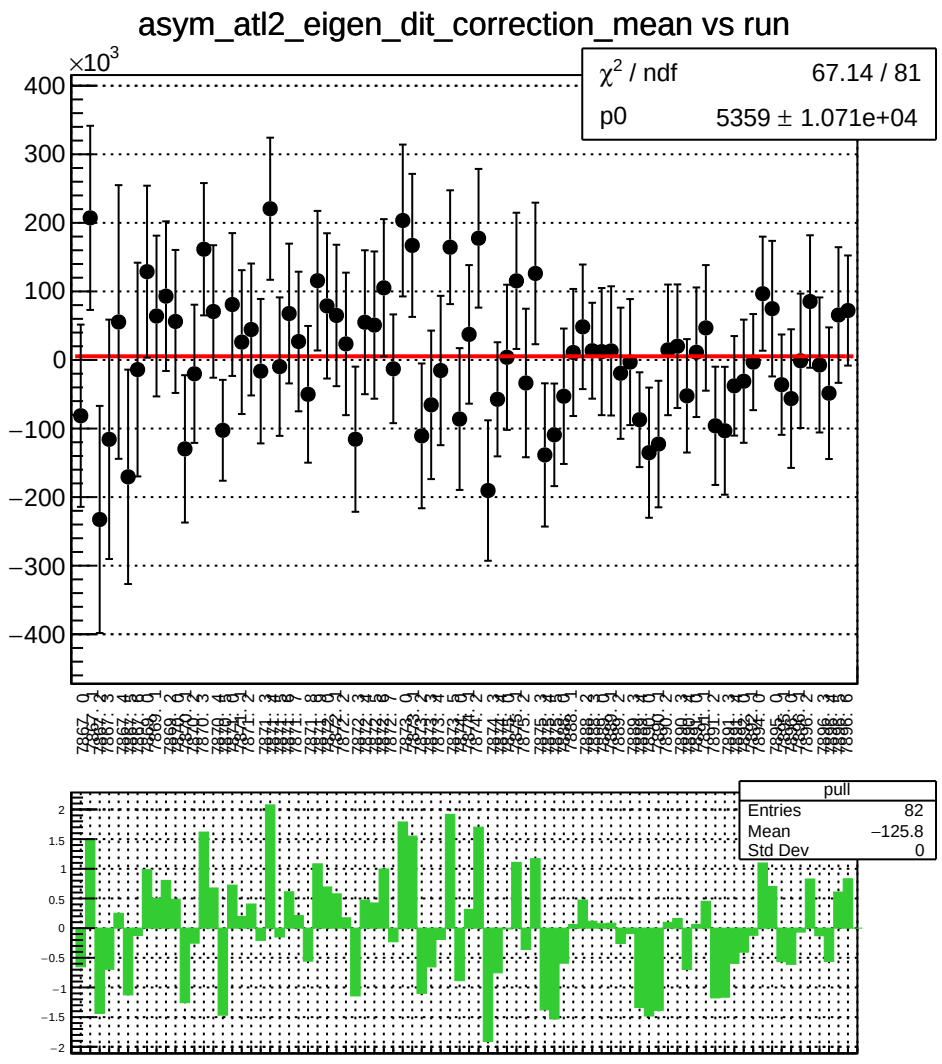

pull1D
Entries 82
Mean 0.01699
Std Dev 0.9047

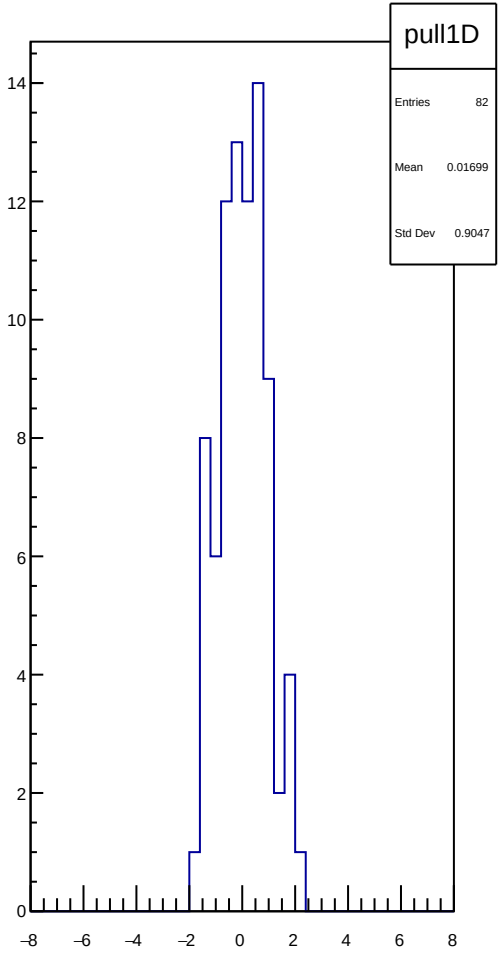

asym_atl2_dit_correction_rms vs run
χ² / ndf 2.66e+04 / 81
p0 9593 ± 7.571
20000
18000
16000
14000
12000
10000
8000

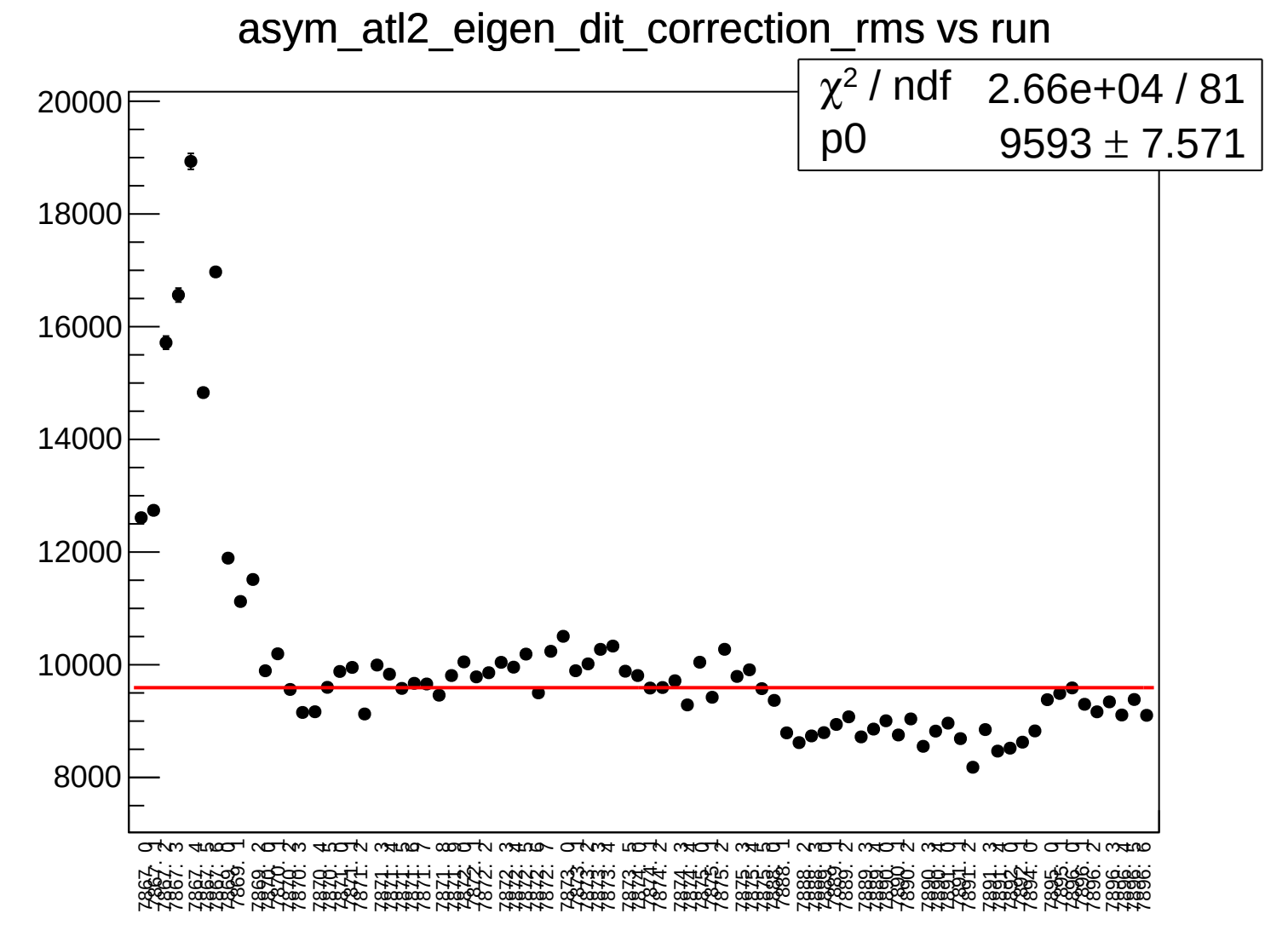

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 70.36 / 81
p0 −5243 ± 2566
pull
Entries 82
Mean 1721
Std Dev 0

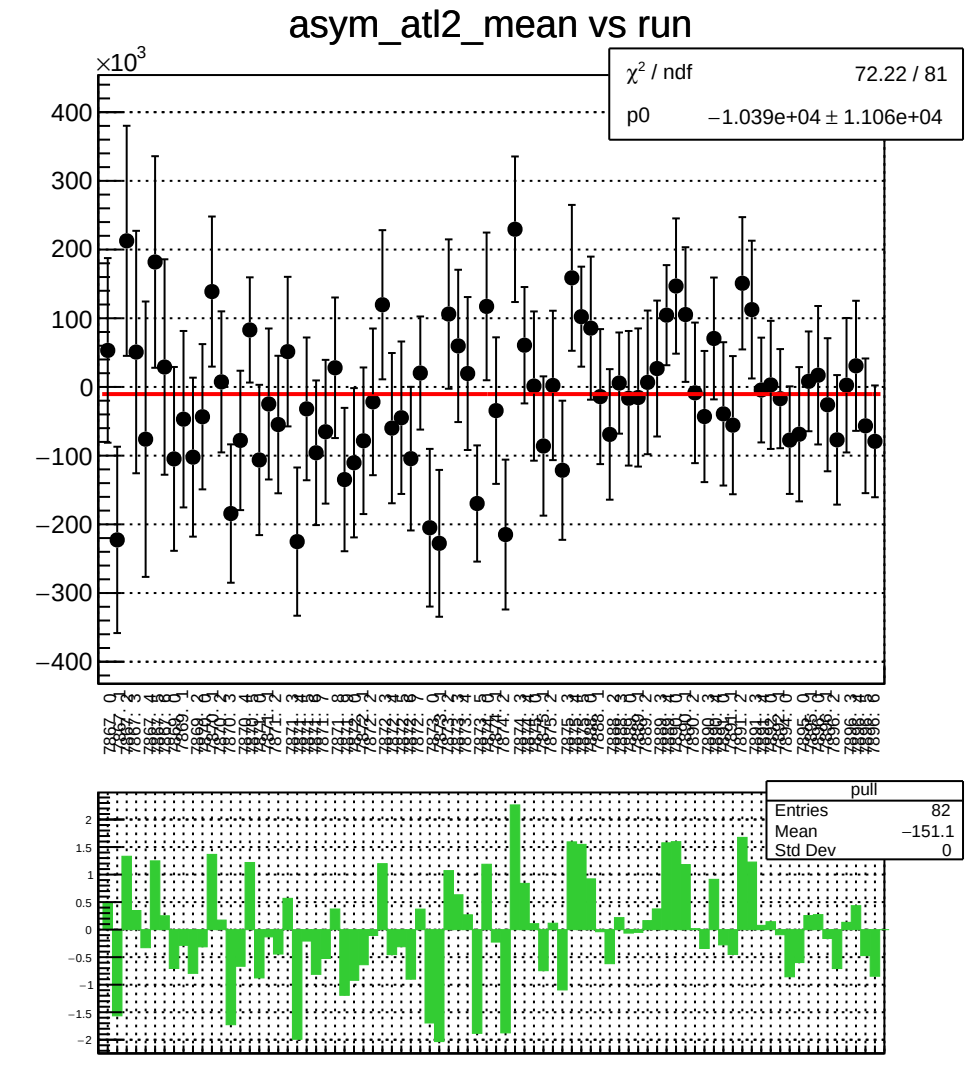

pull1D
Entries 82
Mean 0.001288
Std Dev 0.9263

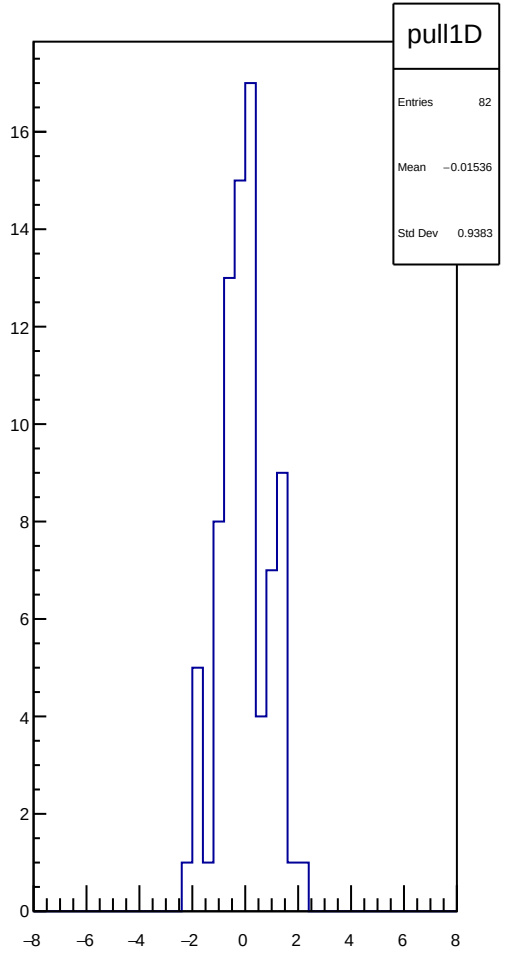

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 1817 / 81
p0 2316 ± 1.814
2600
2500
2400
2300
2200

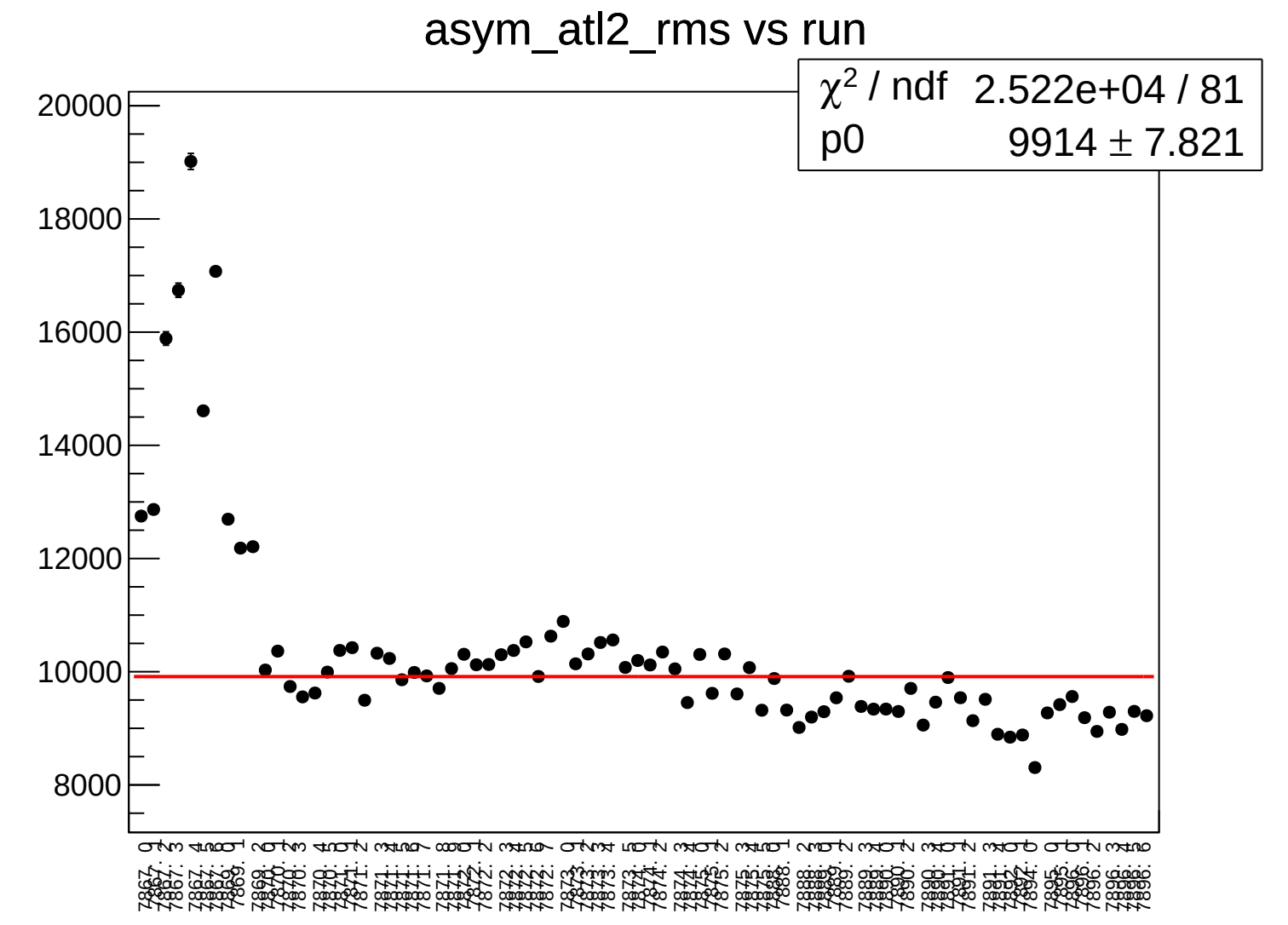

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.14 / 81
p0 5359 ± 1.071e+04
pull
Entries 82
Mean −125.8
Std Dev 0

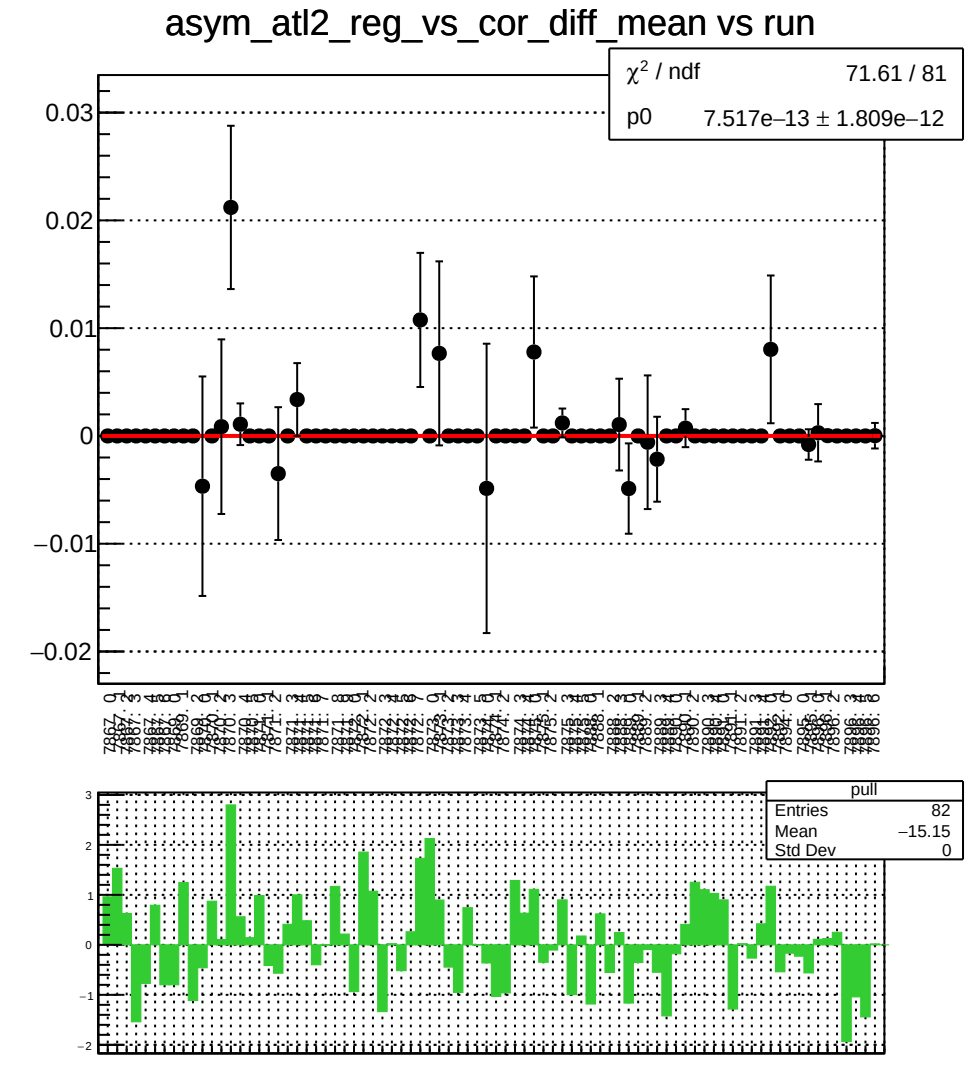

pull1D
Entries 82
Mean 0.01699
Std Dev 0.9047

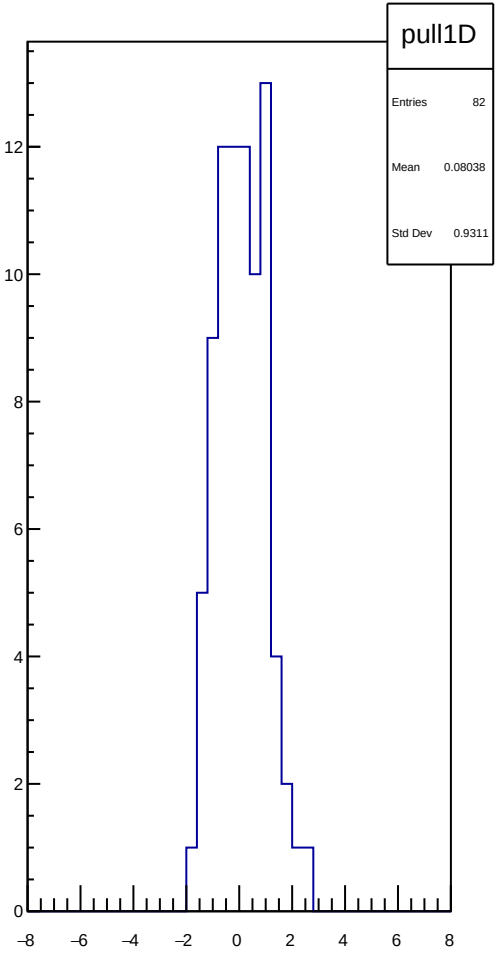

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2.66e+04 / 81
p0 9593 ± 7.571
20000
18000
16000
14000
12000
10000
8000

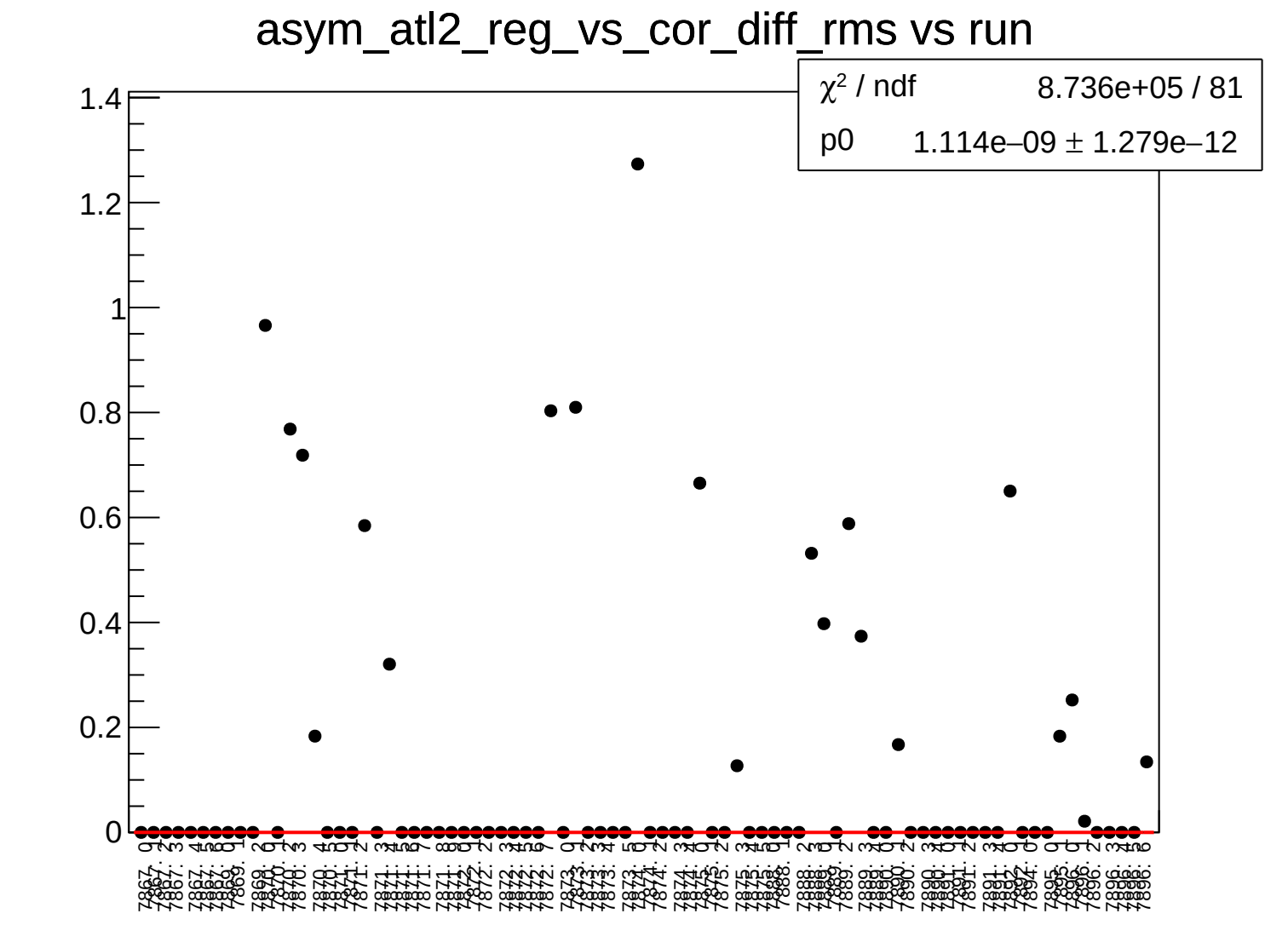

asym_atl2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 72.22 / 81
p0 −1.039e+04 ± 1.106e+04
pull
Entries 82
Mean −151.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

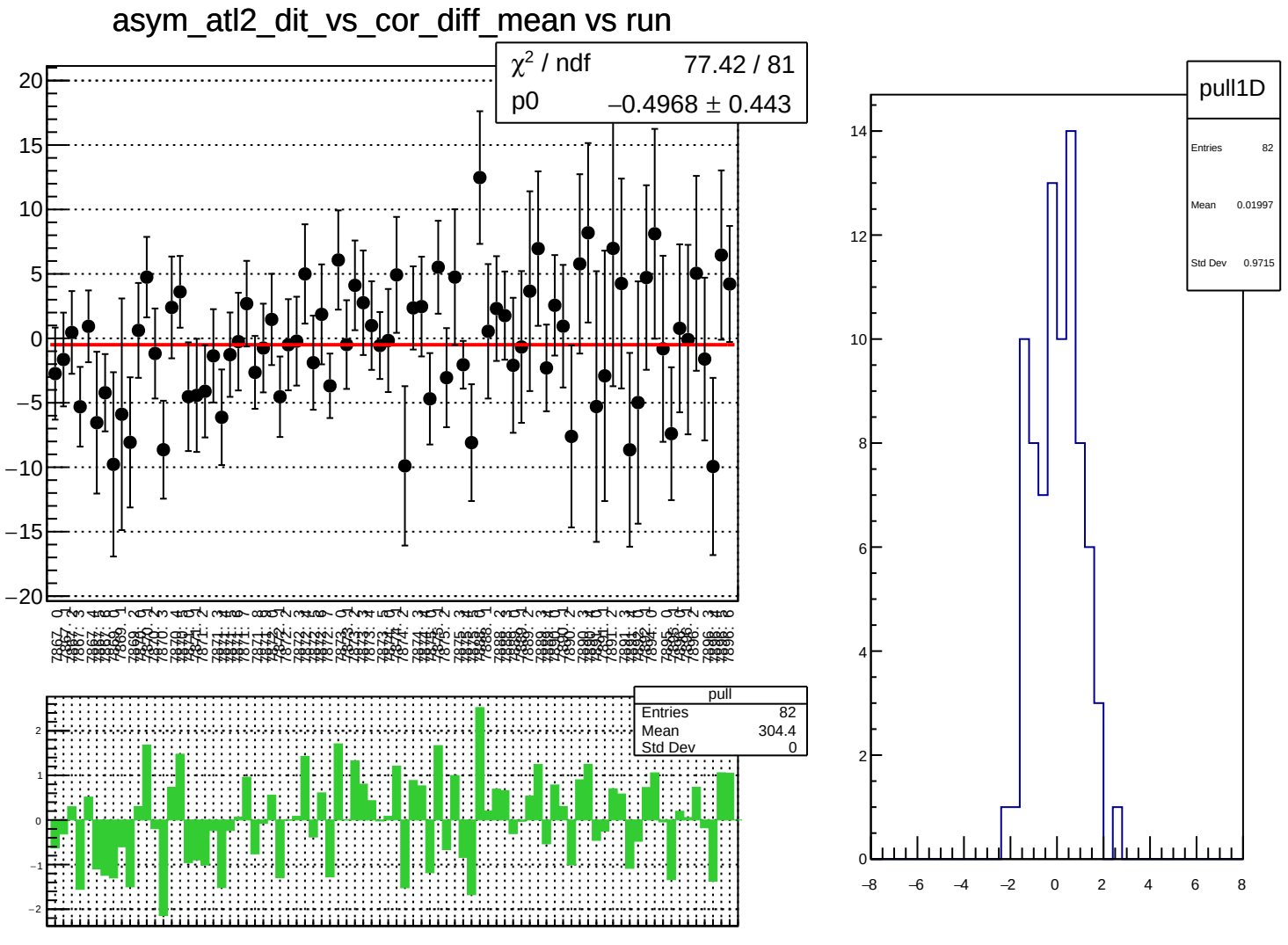

pull1D
Entries 82
Mean −0.01536
Std Dev 0.9383
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

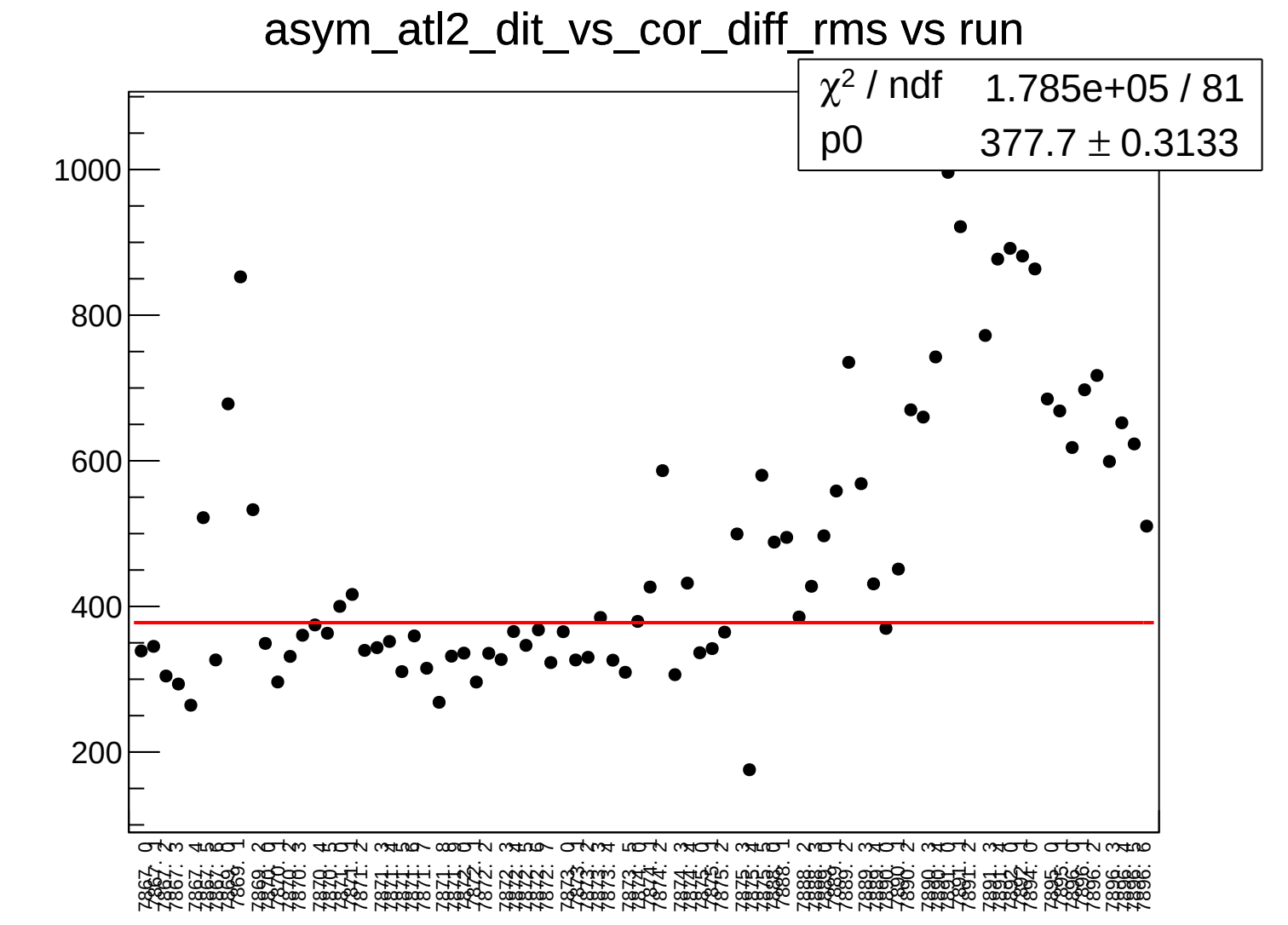

asym_atl2_rms vs run
χ² / ndf 2.522e+04 / 81
p0 9914 ± 7.821
20000
18000
16000
14000
12000
10000
8000

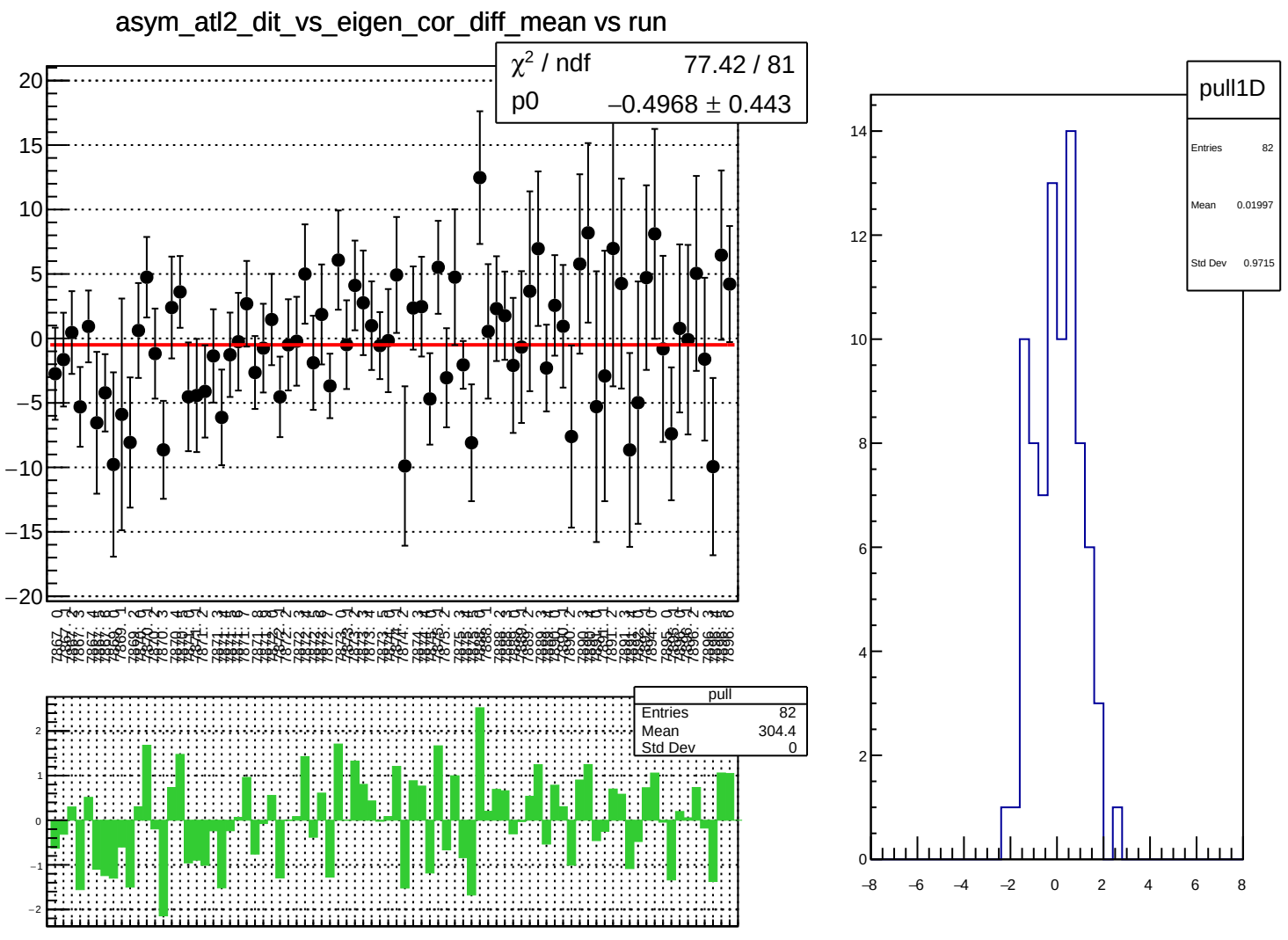

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 71.61 / 81
p0 7.517e−13 ± 1.809e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −15.15
Std Dev 0

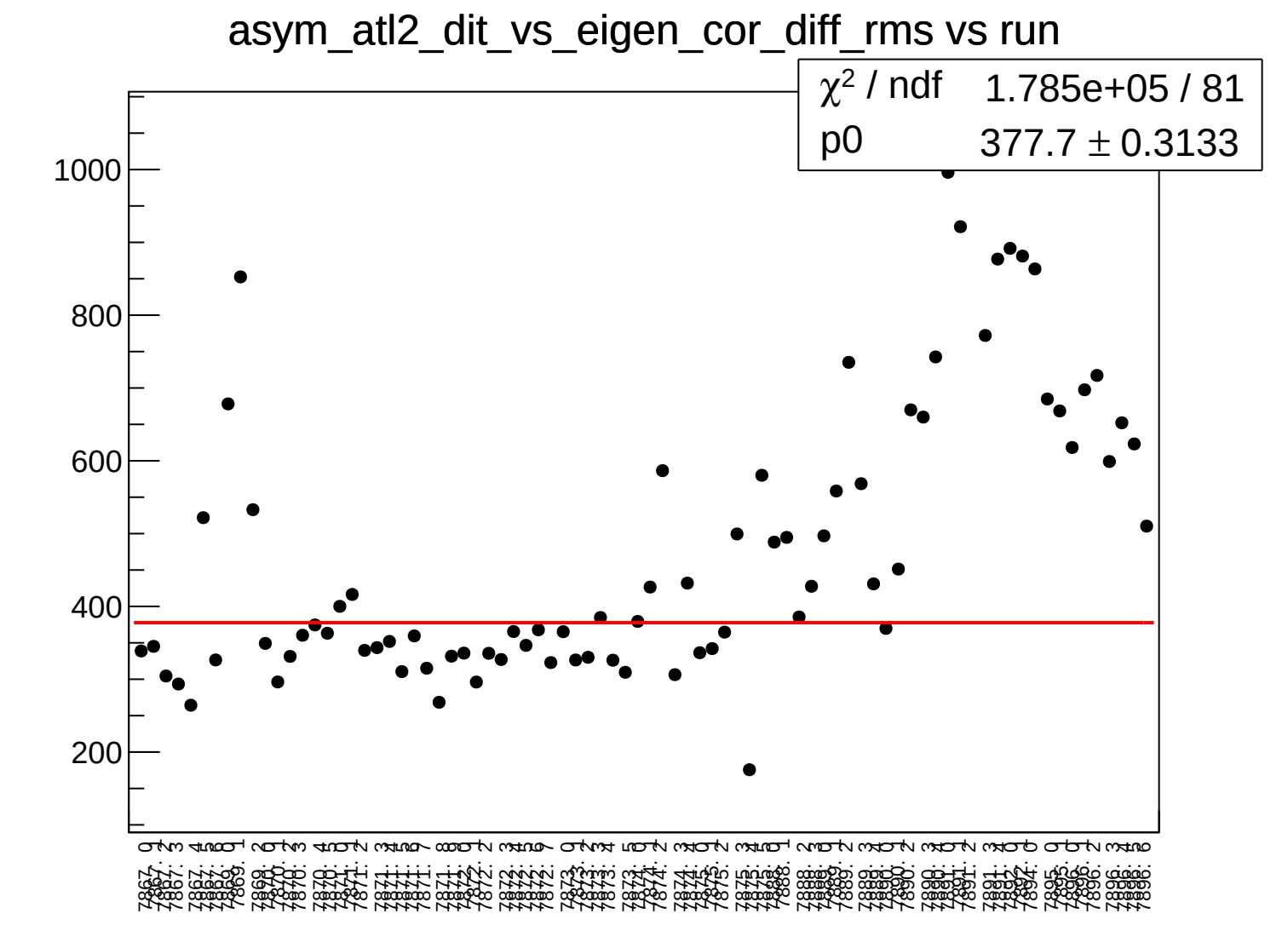

pull1D
Entries 82
Mean 0.08038
Std Dev 0.9311
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

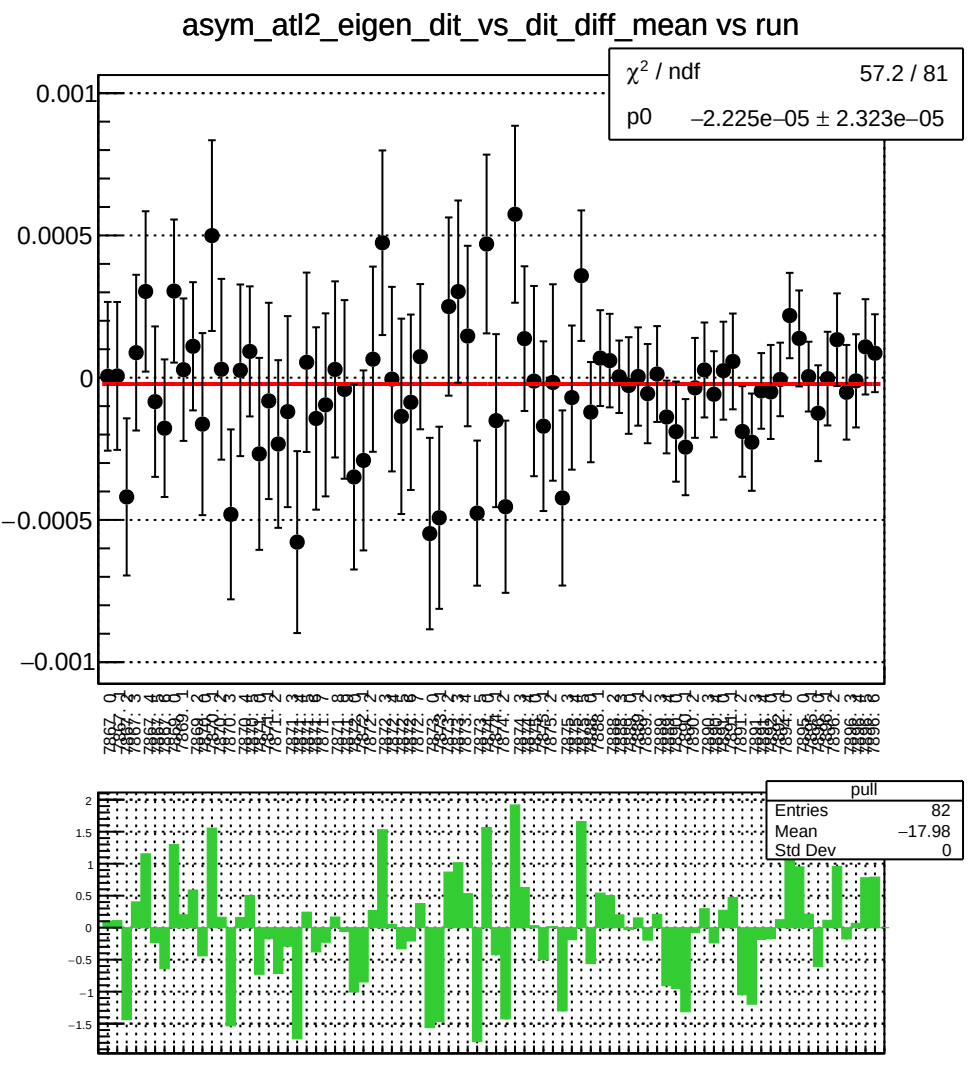

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.736e+05 / 81
p0 1.114e−09 ± 1.279e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

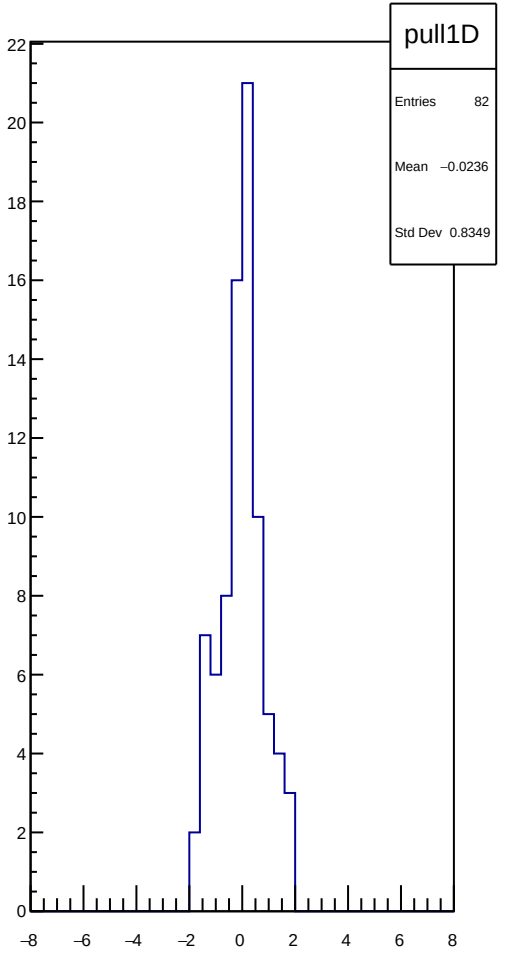

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 −0.4968 ± 0.443
pull
Entries 82
Mean 304.4
Std Dev 0
pull1D
Entries 82
Mean 0.01997
Std Dev 0.9715

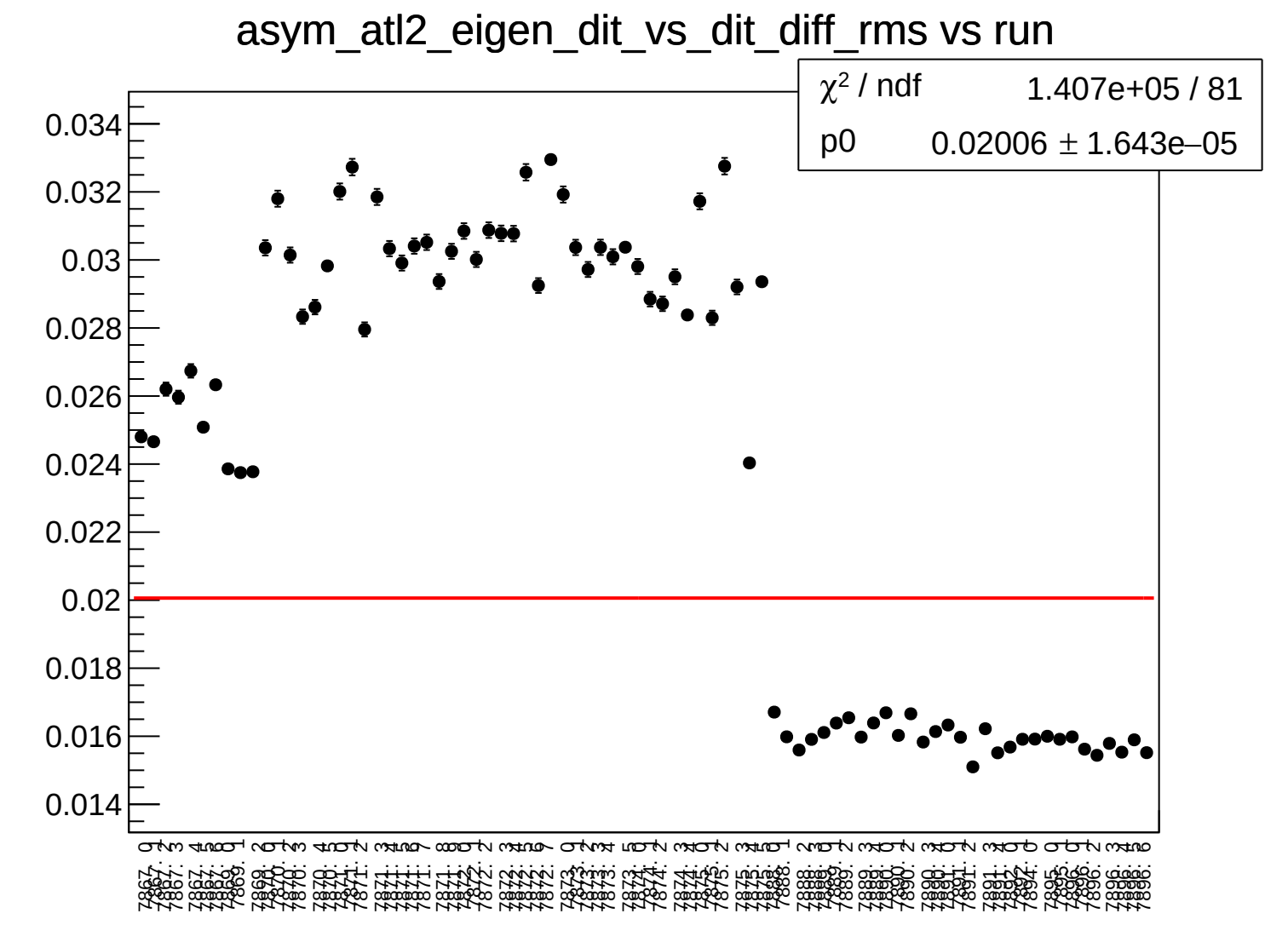

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.785e+05 / 81
p0 377.7 ± 0.3133
1000
800
600
400
200

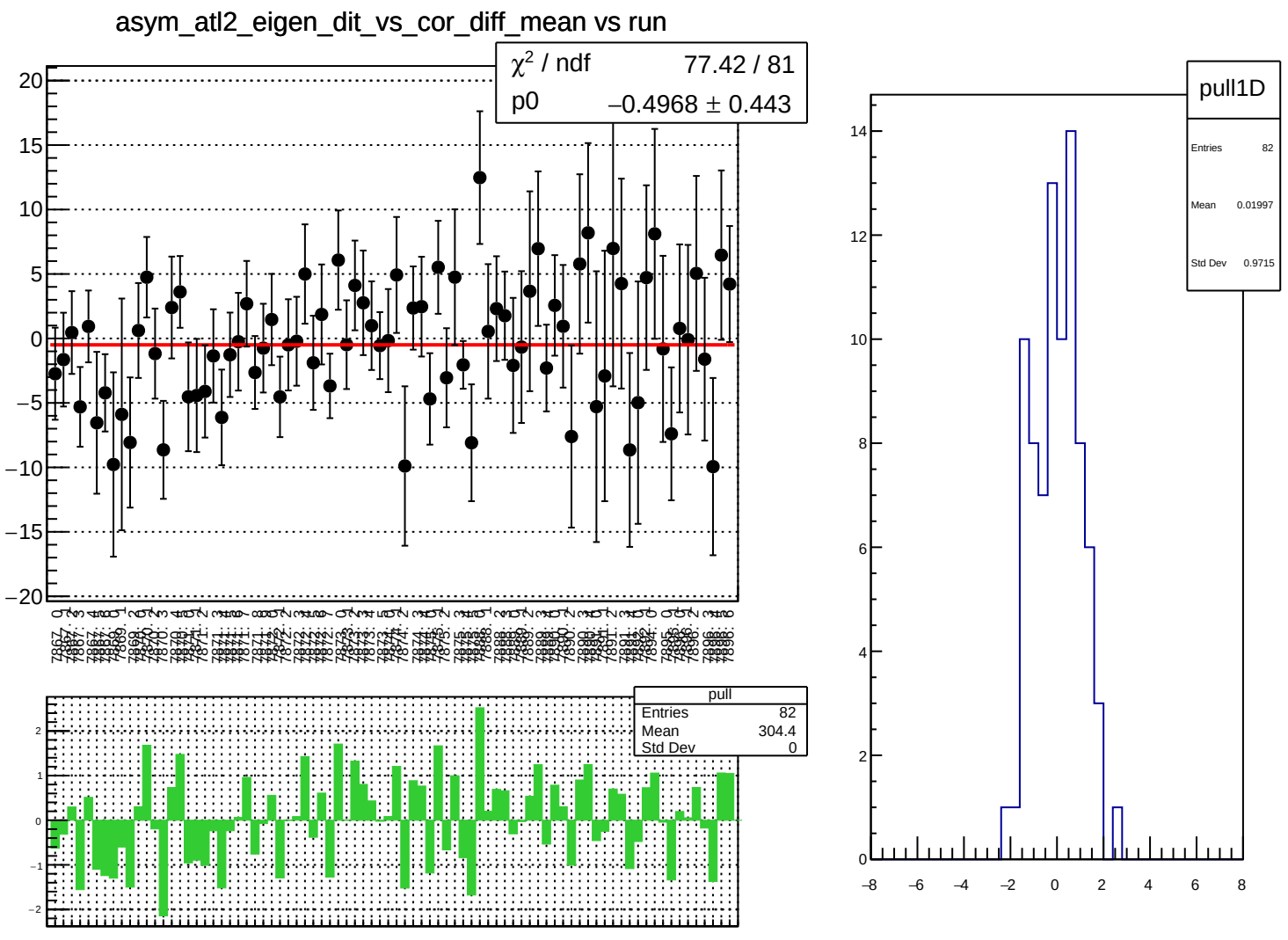

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 −0.4968 ± 0.443
pull
Entries 82
Mean 304.4
Std Dev 0
pull1D
Entries 82
Mean 0.01997
Std Dev 0.9715

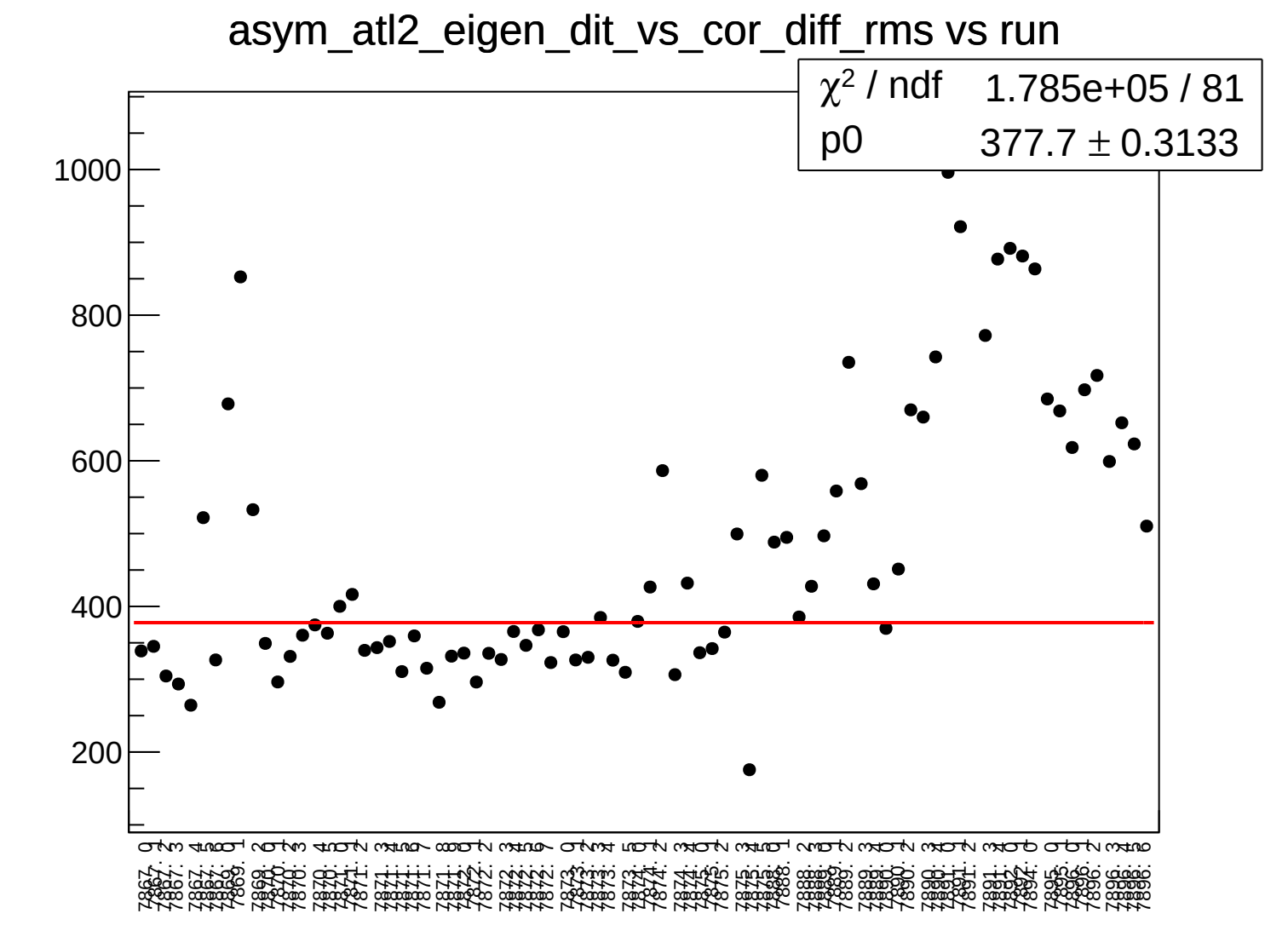

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.785e+05 / 81
p0 377.7 ± 0.3133
1000
800
600
400
200

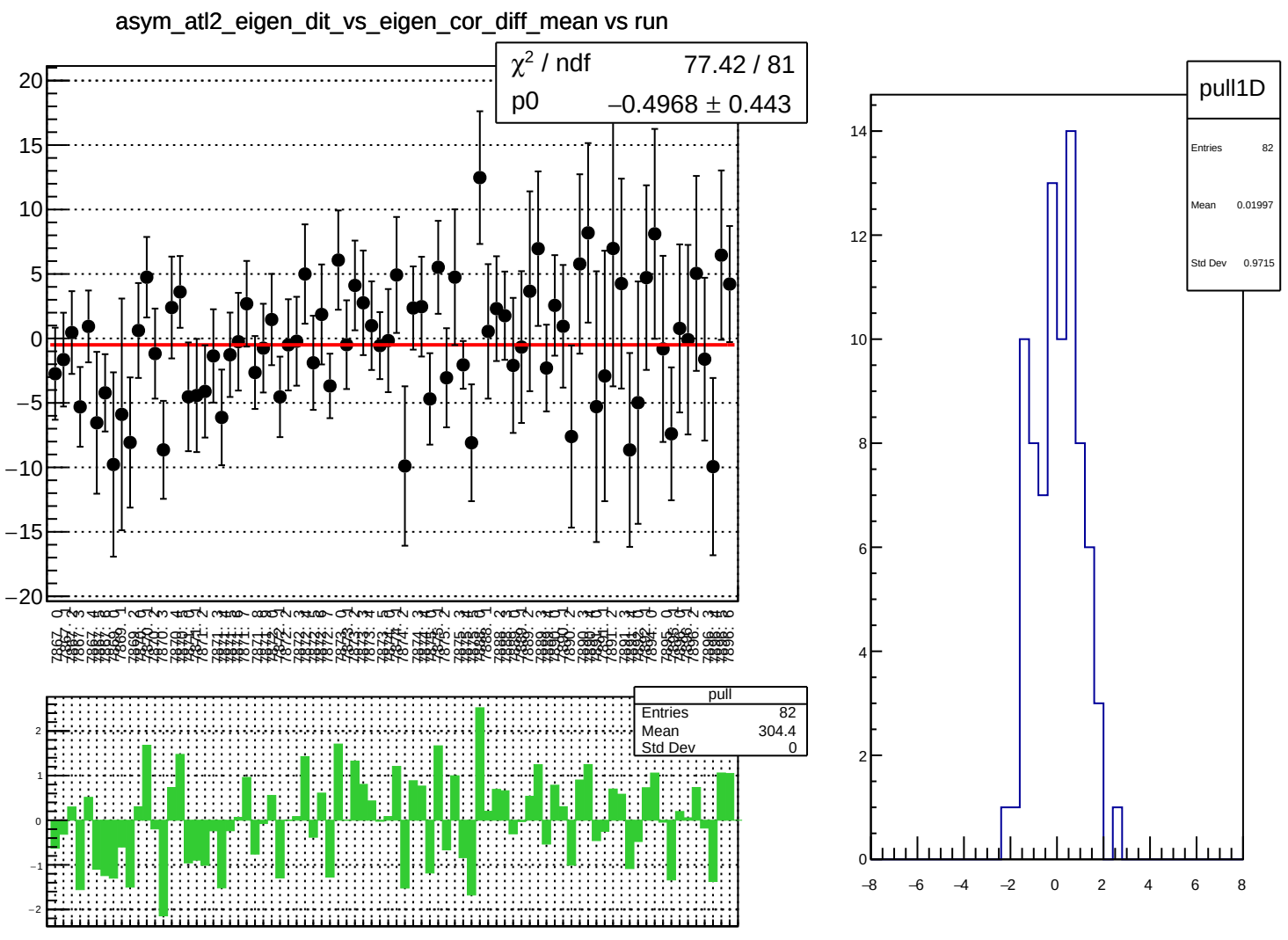

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 57.2 / 81
p0 −2.225e−05 ± 2.323e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean −17.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

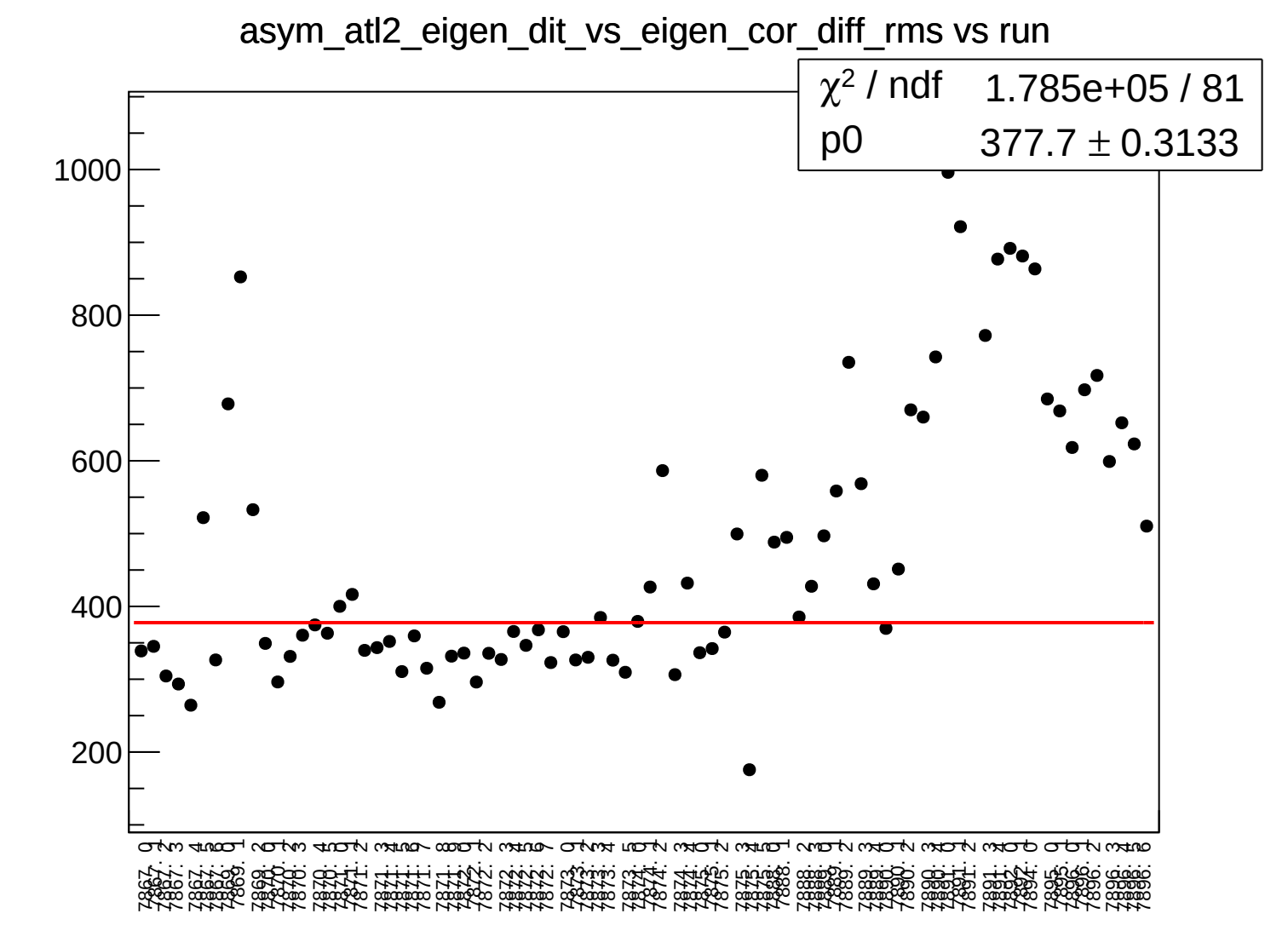

pull1D
Entries 82
Mean −0.0236
Std Dev 0.8349
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

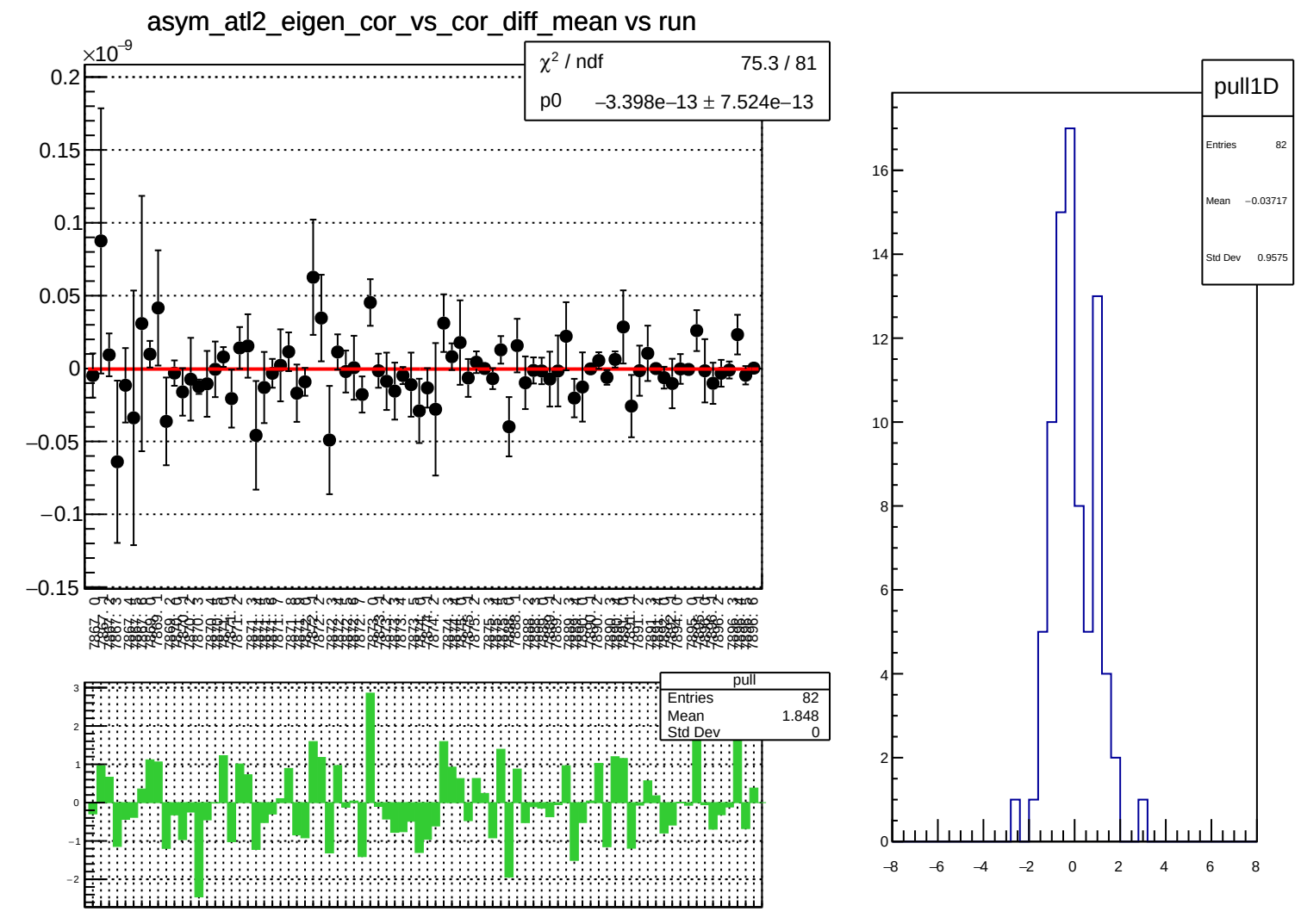

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.407e+05 / 81
p0 0.02006 ± 1.643e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

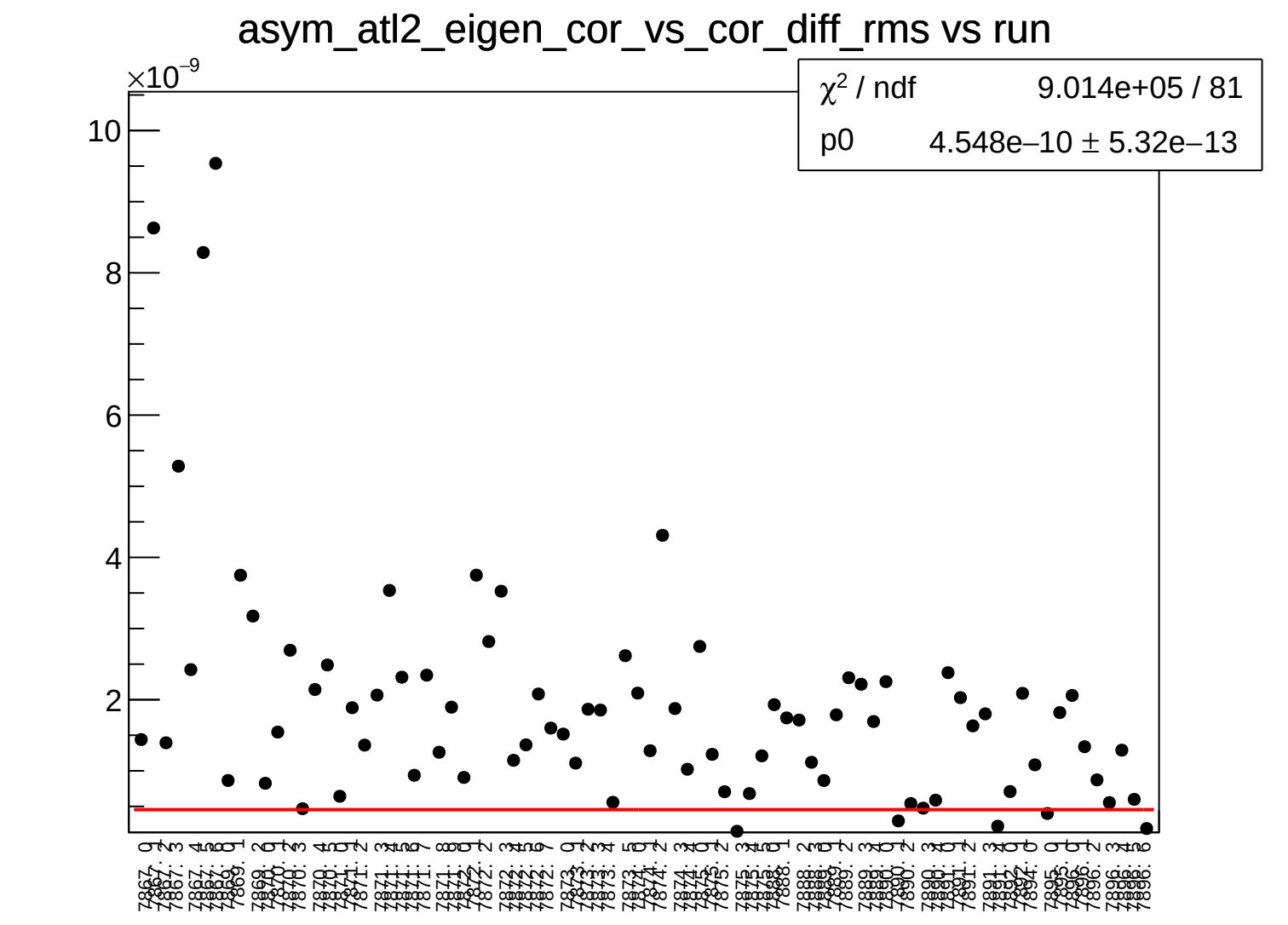

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 −0.4968 ± 0.443
pull
Entries 82
Mean 304.4
Std Dev 0
pull1D
Entries 82
Mean 0.01997
Std Dev 0.9715

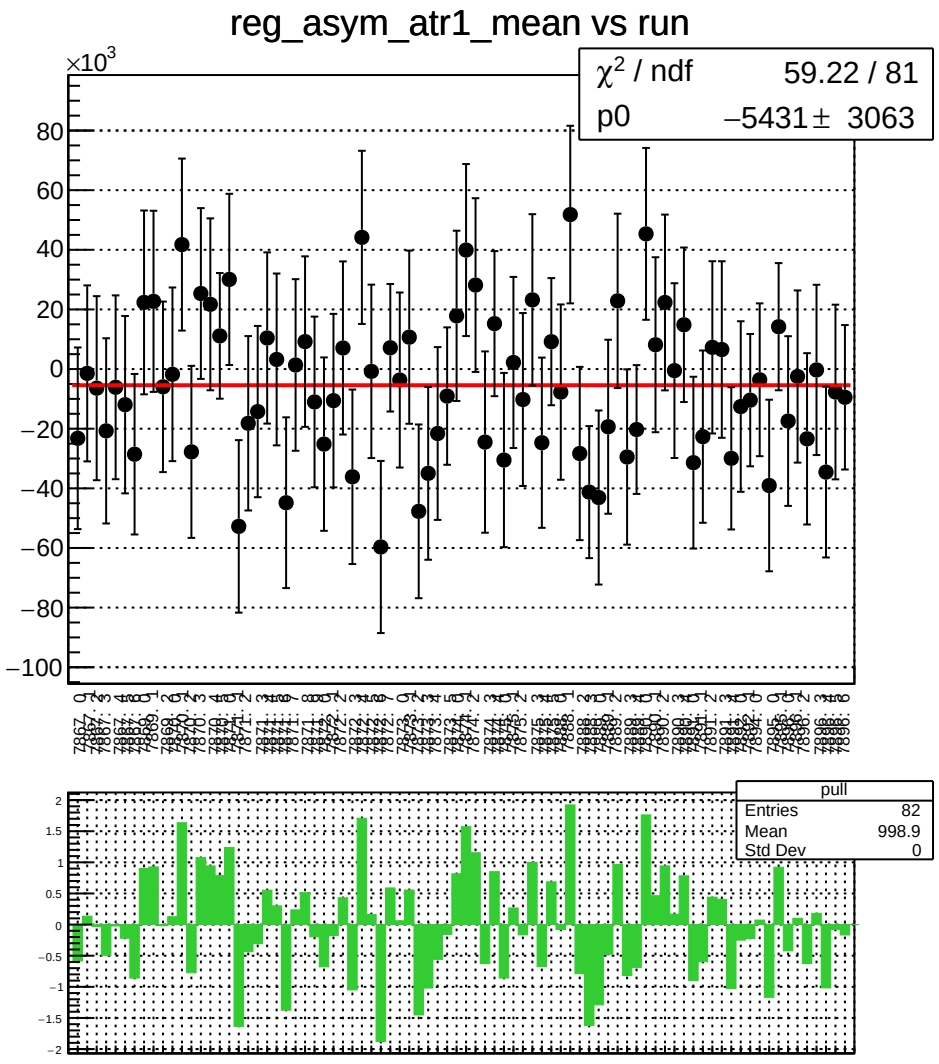

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.785e+05 / 81
p0 377.7 ± 0.3133
1000
800
600
400
200

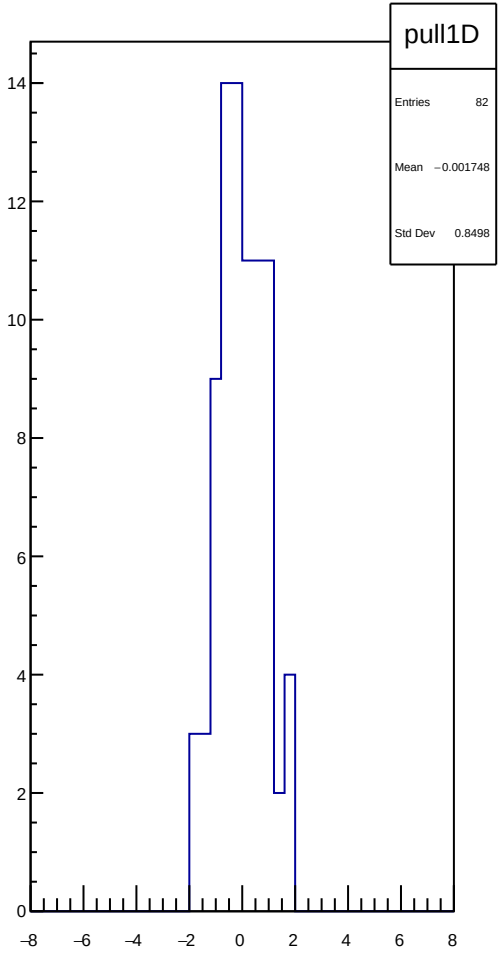

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 −0.4968 ± 0.443
pull
Entries 82
Mean 304.4
Std Dev 0
pull1D
Entries 82
Mean 0.01997
Std Dev 0.9715

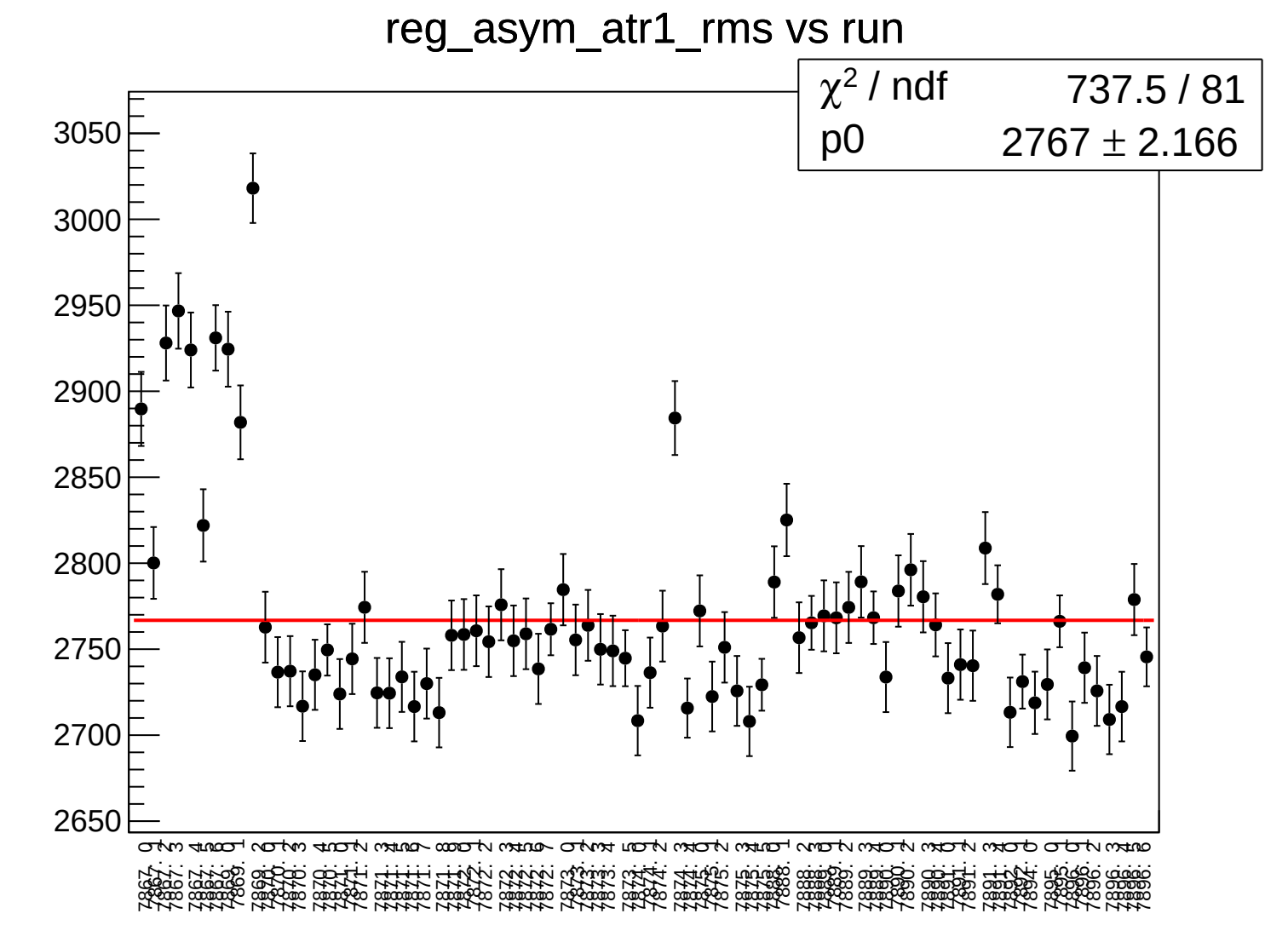

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.785e+05 / 81
p0 377.7 ± 0.3133
1000
800
600
400
200

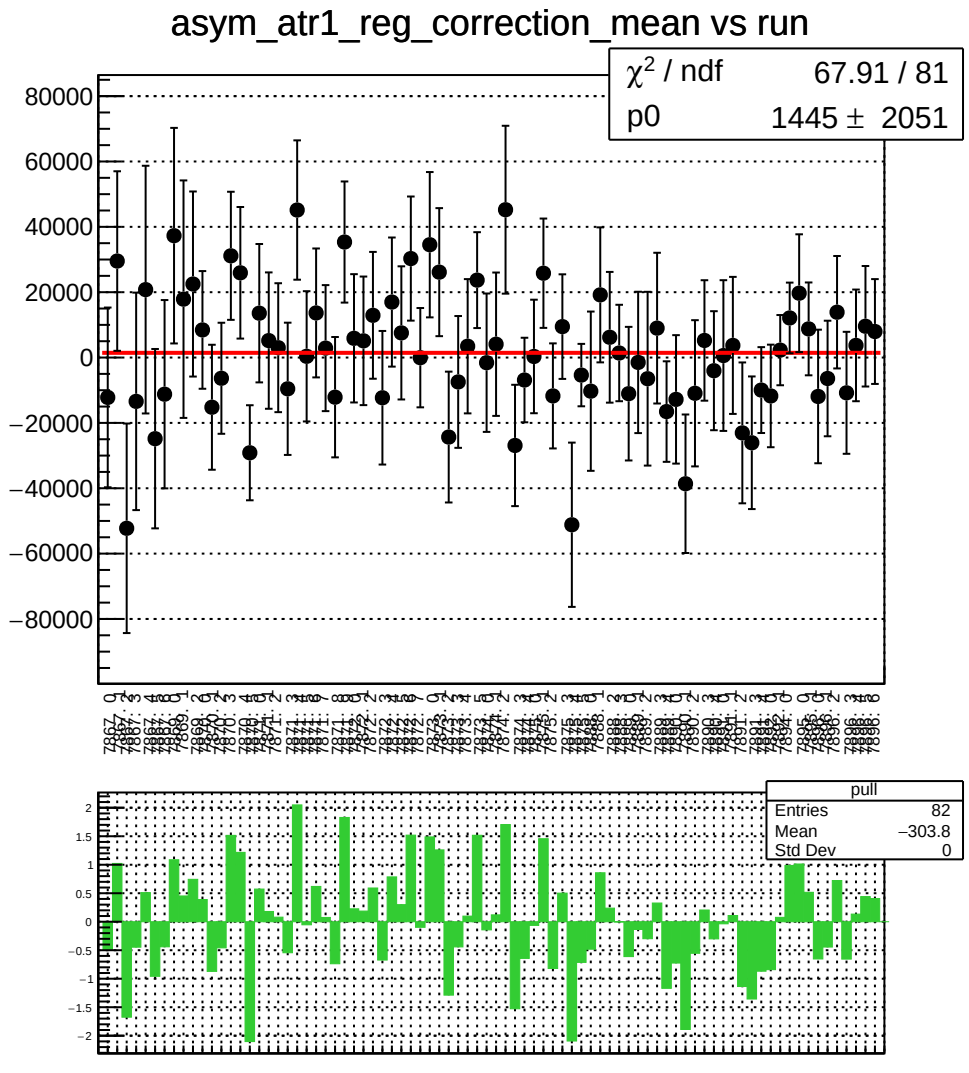

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 75.3 / 81
p0 −3.398e−13 ± 7.524e−13
pull
Entries 82
Mean 1.848
Std Dev 0
pull1D
Entries 82
Mean −0.03717
Std Dev 0.9575

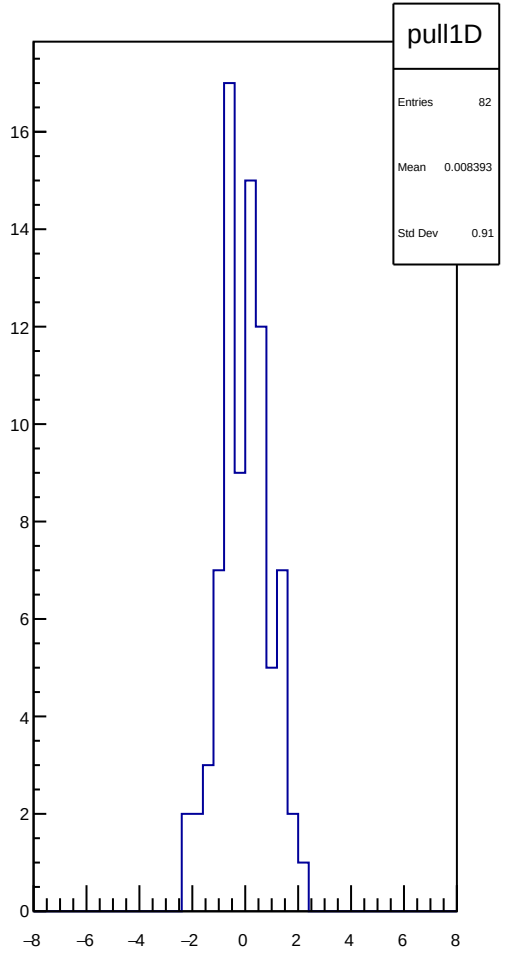

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
10
8
6
4
2
χ² / ndf 9.014e+05 / 81
p0 4.548e−10 ± 5.32e−13

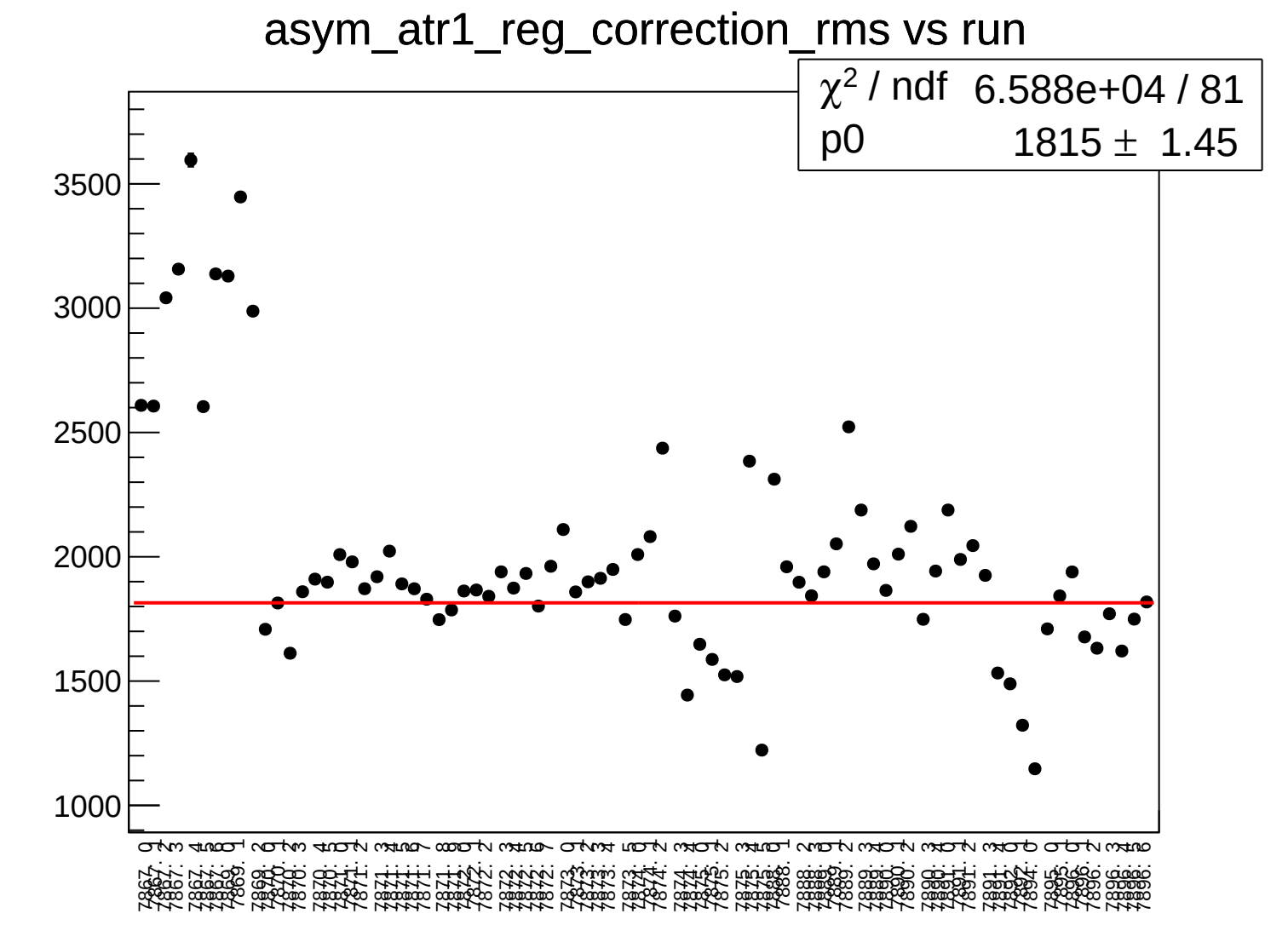

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 59.22 / 81
p0 −5431 ± 3063
pull
Entries 82
Mean 998.9
Std Dev 0

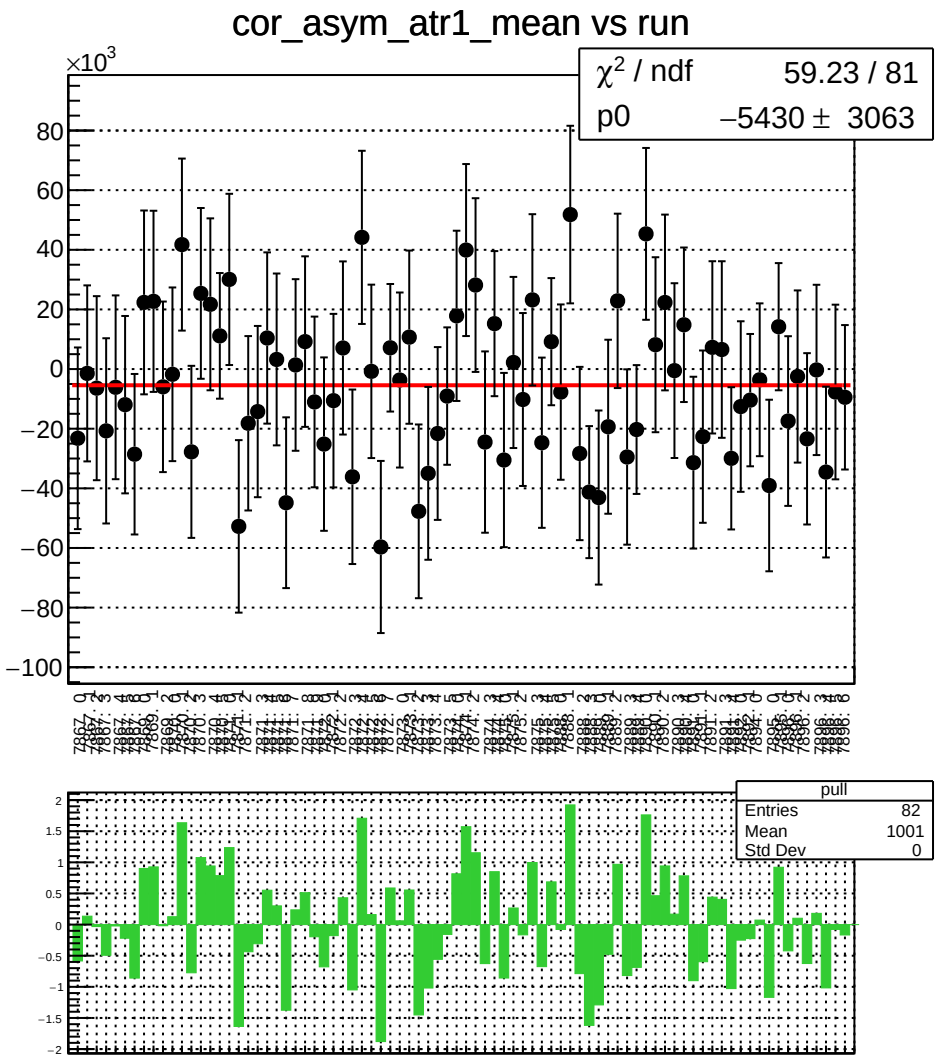

pull1D
Entries 82
Mean −0.001748
Std Dev 0.8498

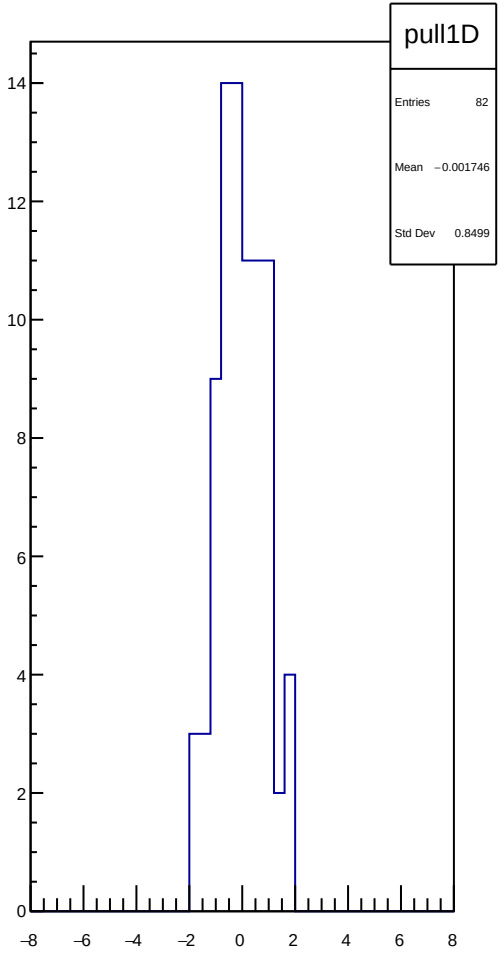

reg_asym_atr1_rms vs run
χ^2 / ndf 737.5 / 81
p0 2767 ± 2.166
3050
3000
2950
2900
2850
2800
2750
2700
2650

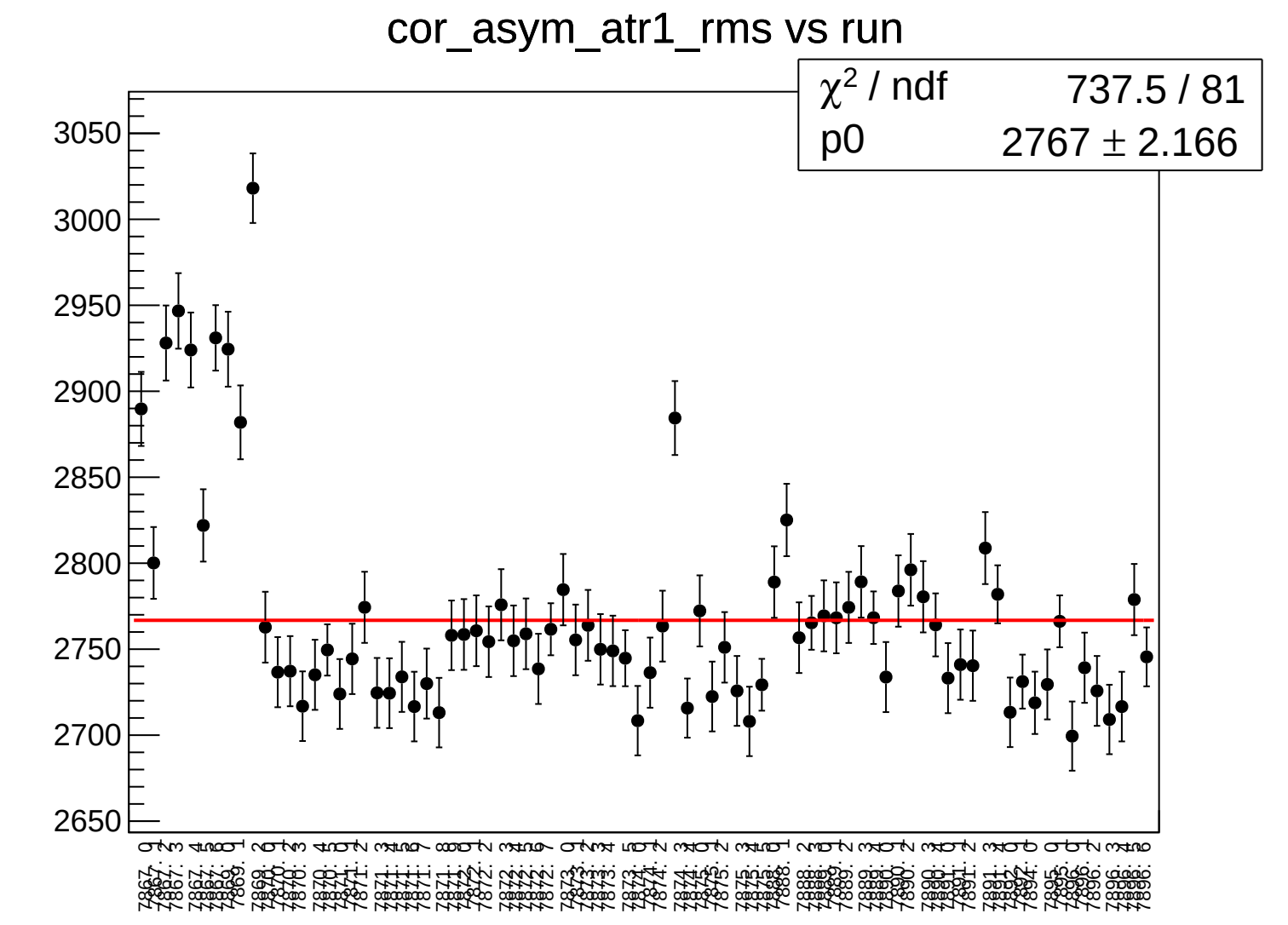

asym_atr1_reg_correction_mean vs run
χ² / ndf 67.91 / 81
p0 1445 ± 2051
pull
Entries 82
Mean −303.8
Std Dev 0

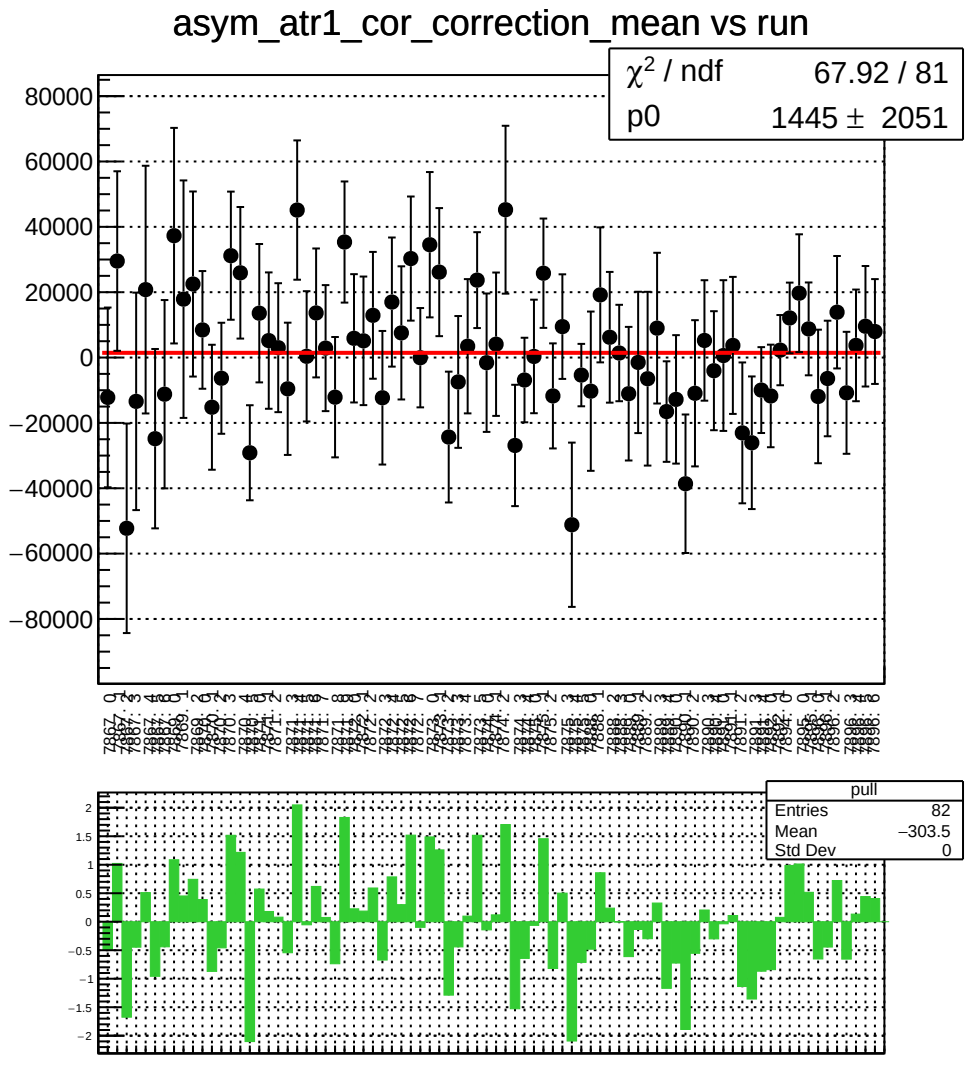

pull1D
Entries 82
Mean 0.008393
Std Dev 0.91

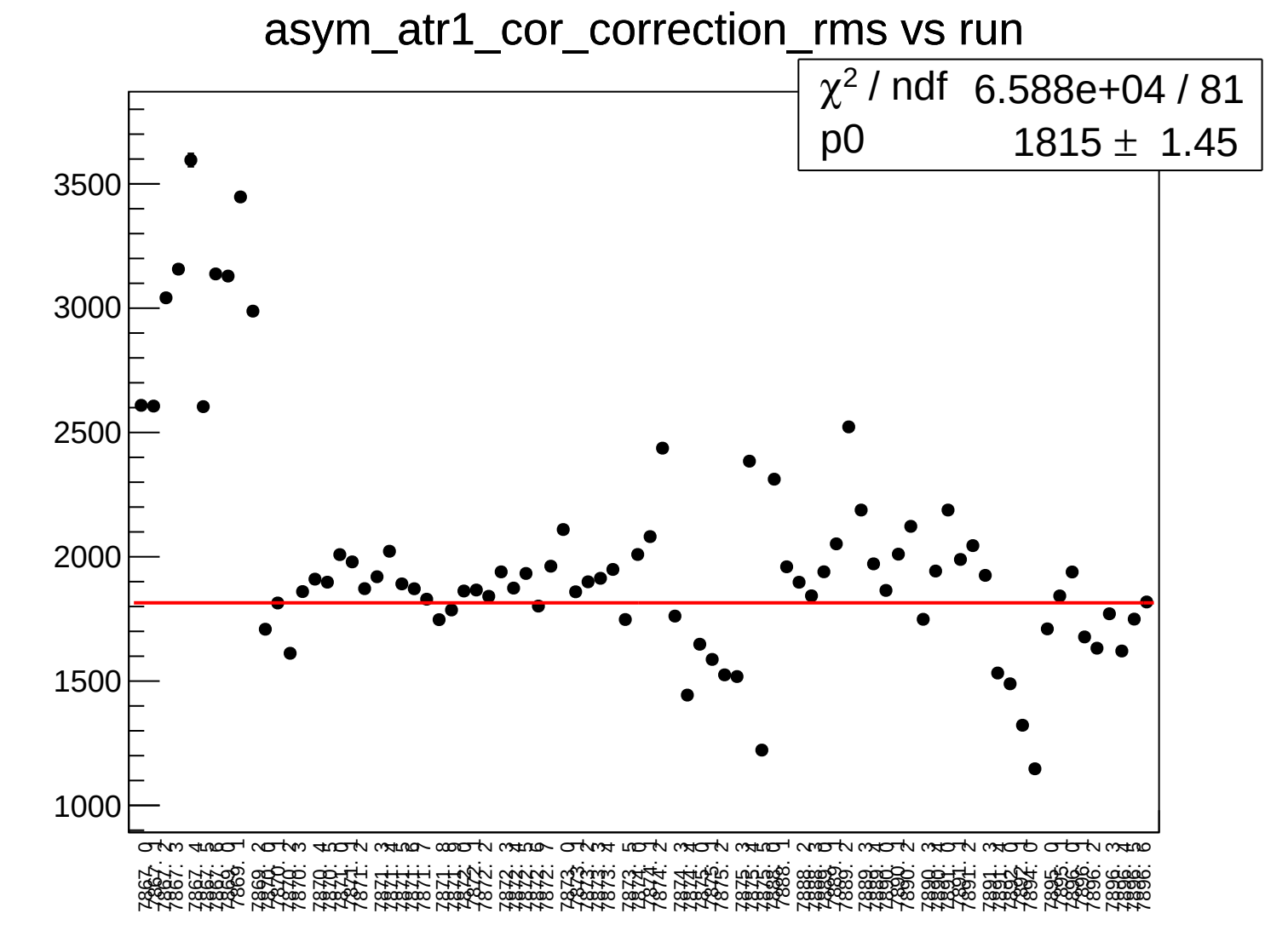

asym_atr1_reg_correction_rms vs run
χ² / ndf 6.588e+04 / 81
p0 1815 ± 1.45
3500
3000
2500
2000
1500
1000

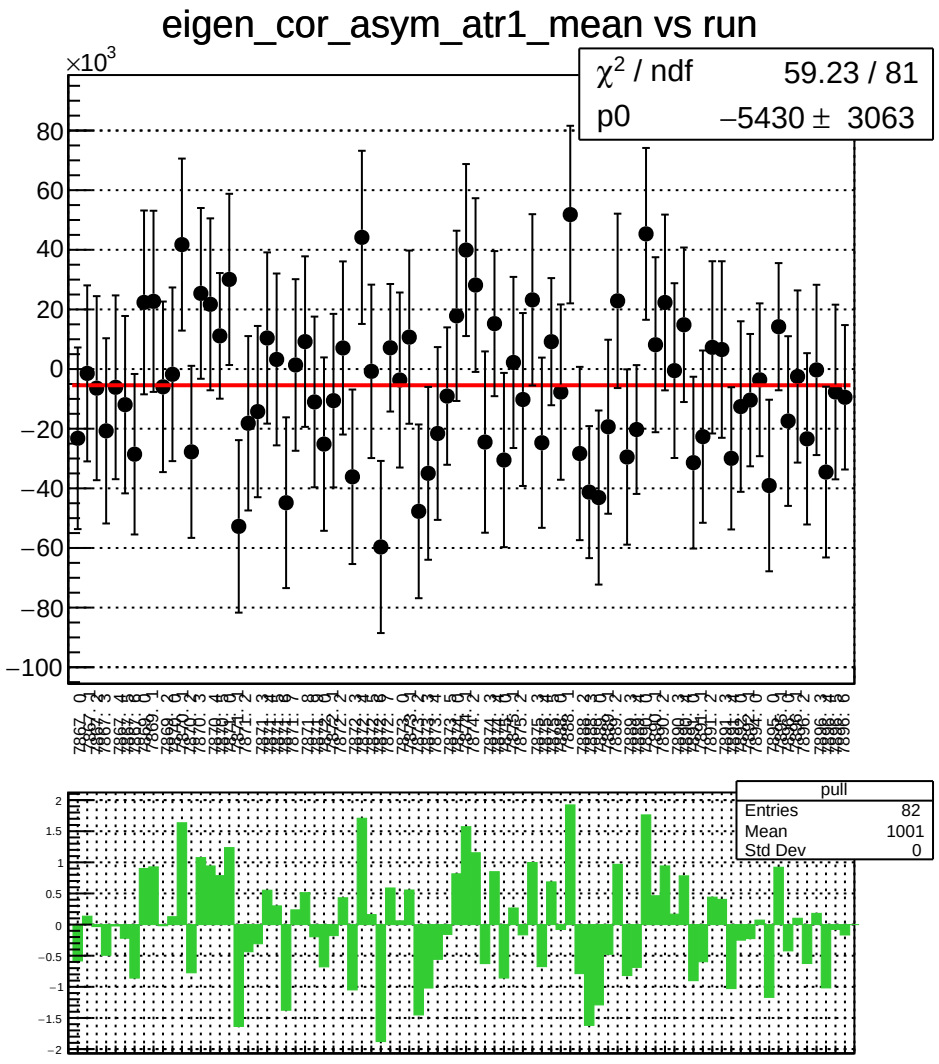

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 59.23 / 81
p0 −5430 ± 3063
pull
Entries 82
Mean 1001
Std Dev 0

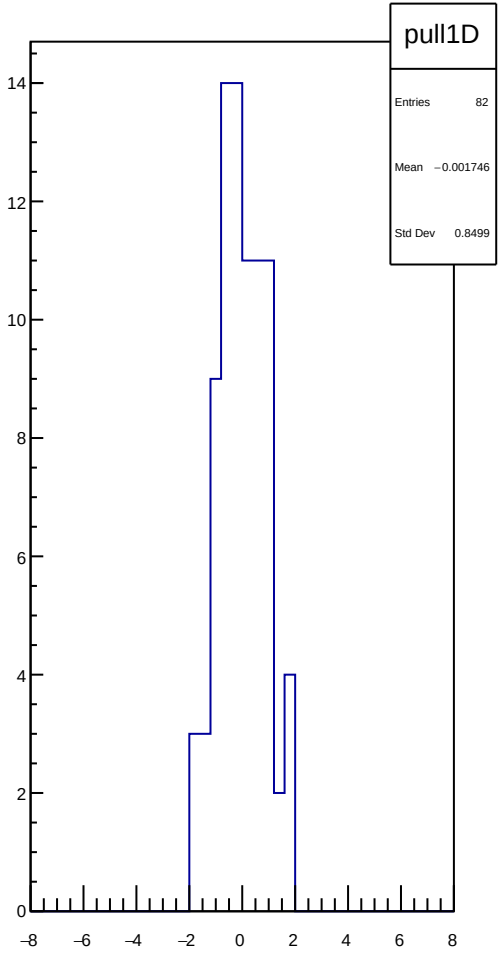

pull1D
Entries 82
Mean −0.001746
Std Dev 0.8499

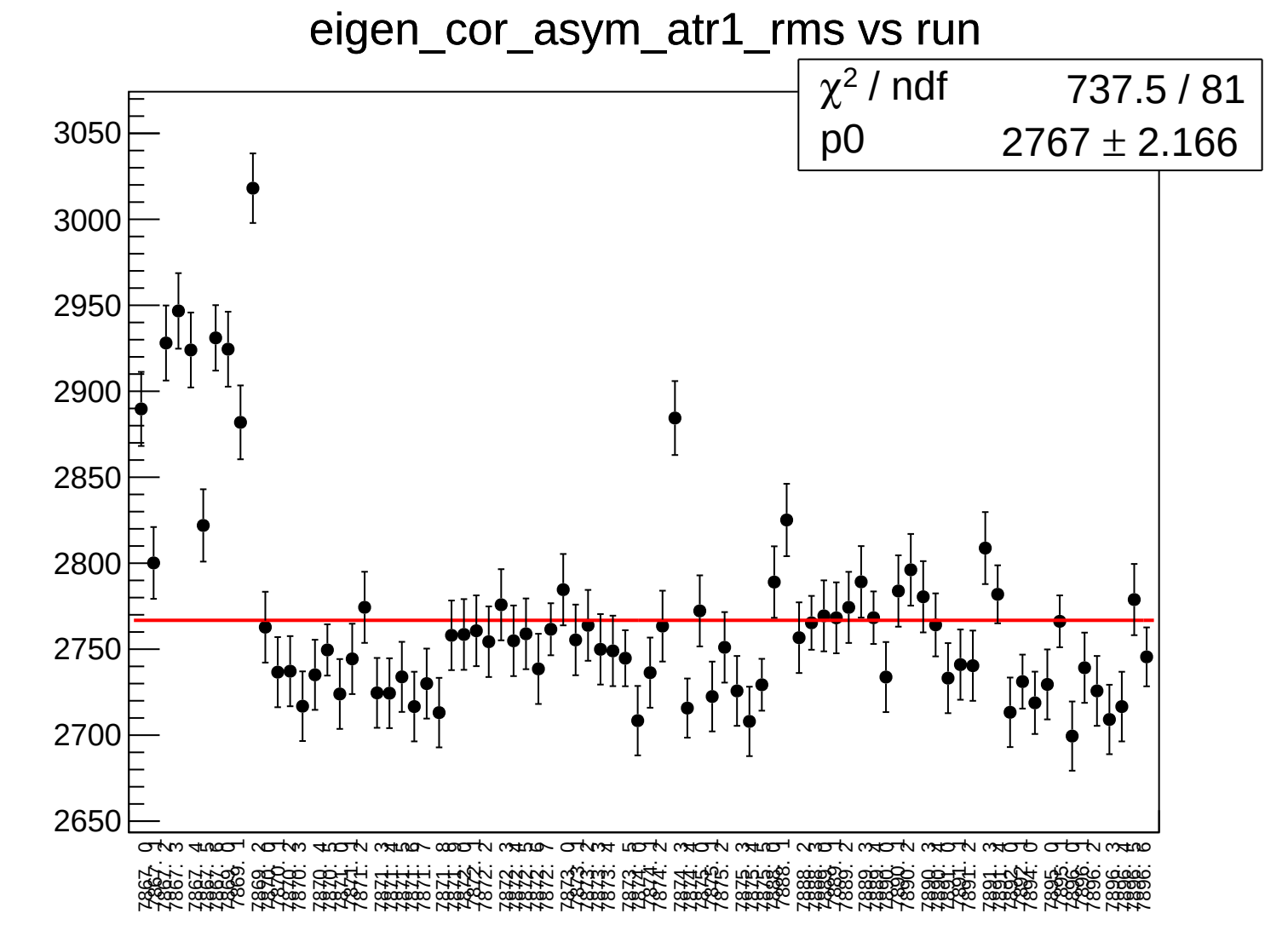

cor_asym_atr1_rms vs run
χ² / ndf 737.5 / 81
p0 2767 ± 2.166
3050
3000
2950
2900
2850
2800
2750
2700
2650

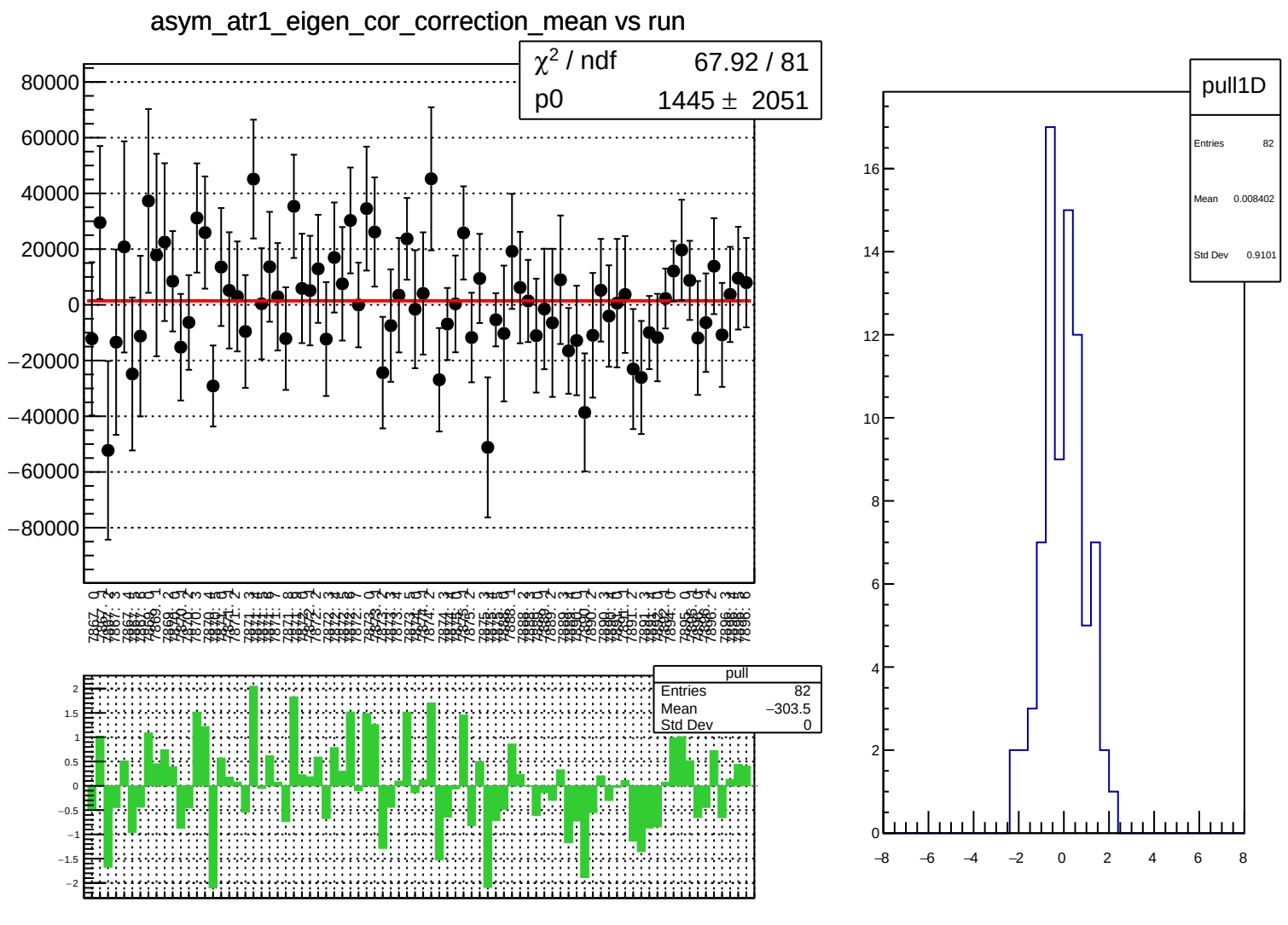

asym_atr1_cor_correction_mean vs run
χ² / ndf 67.92 / 81
p0 1445 ± 2051
pull
Entries 82
Mean −303.5
Std Dev 0
pull1D
Entries 82
Mean 0.008402
Std Dev 0.9101

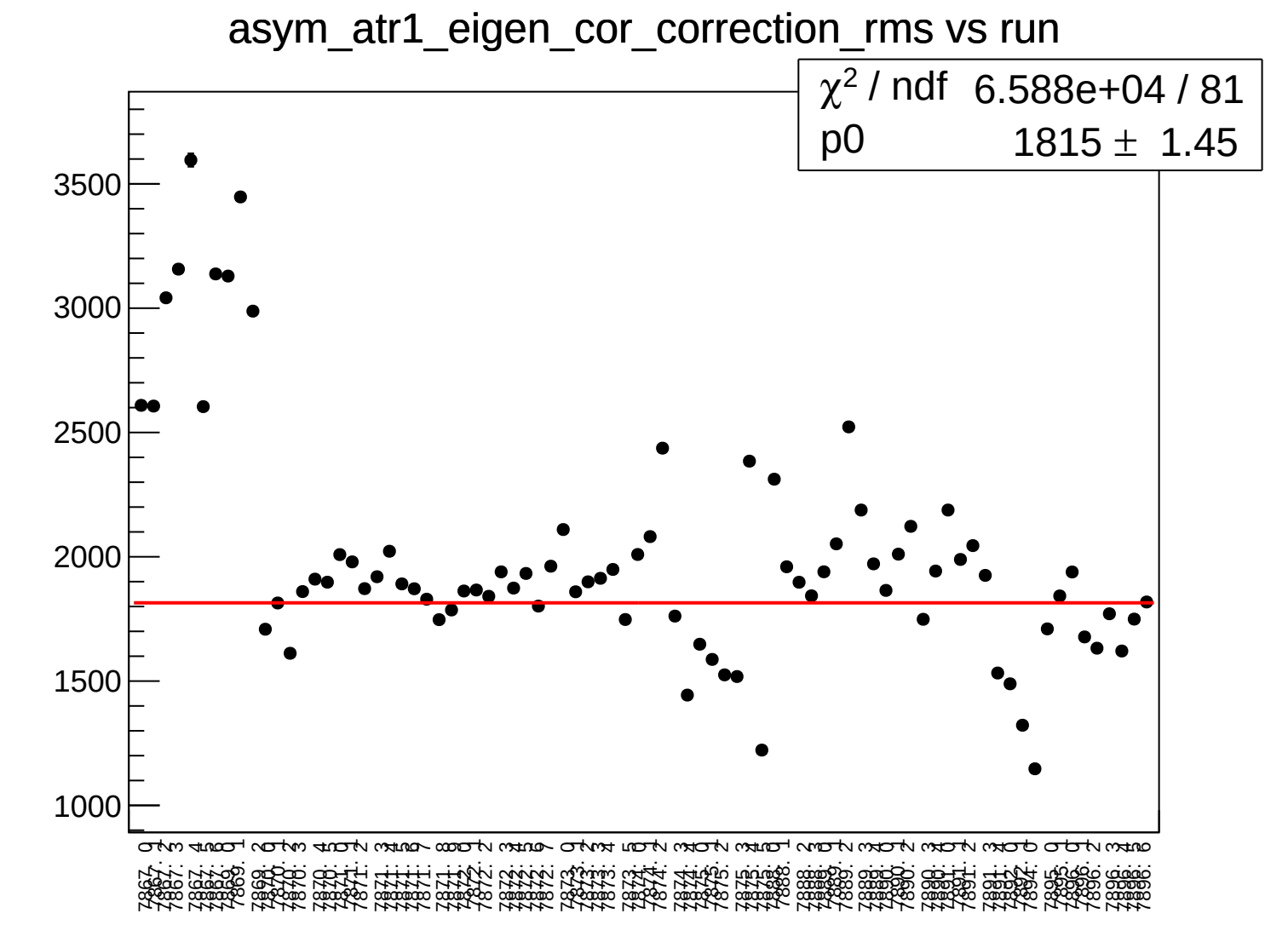

asym_atr1_cor_correction_rms vs run
χ² / ndf 6.588e+04 / 81
p0 1815 ± 1.45
3500
3000
2500
2000
1500
1000

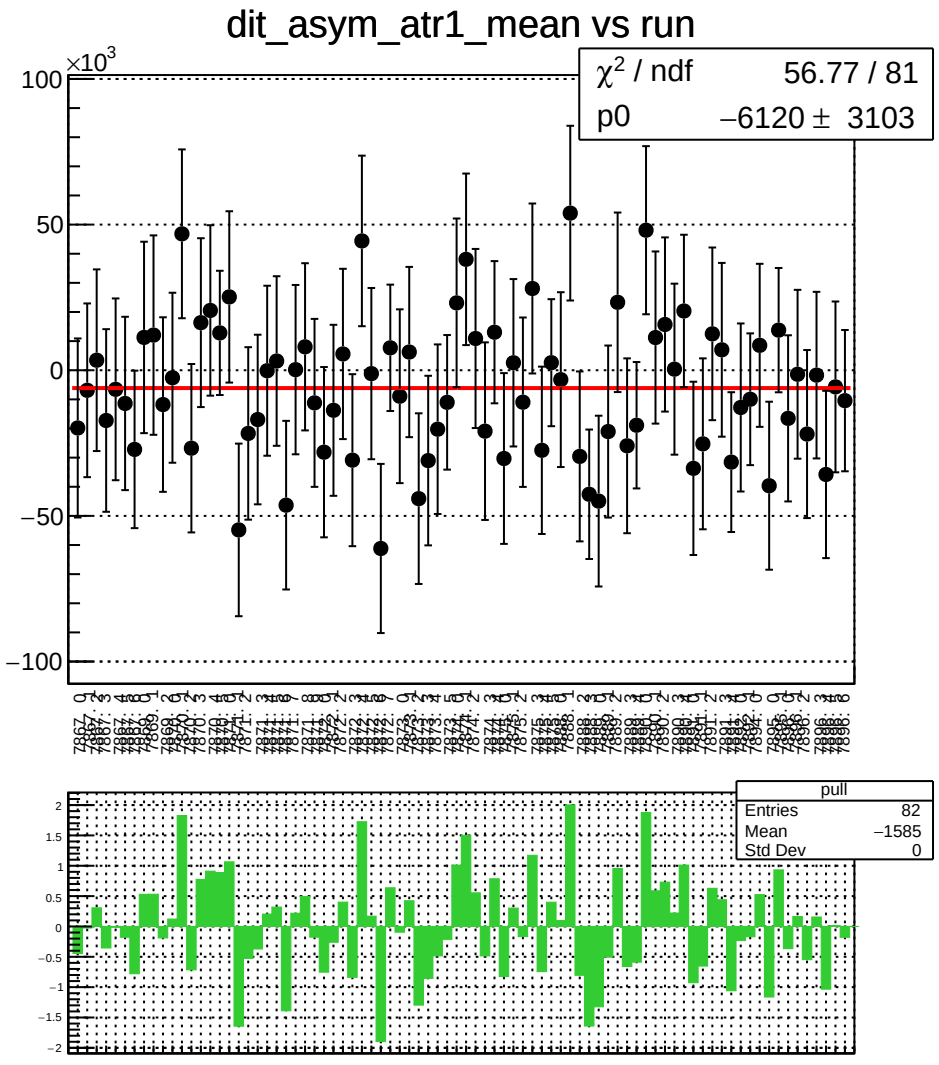

eigen_cor_asym_atr1_mean vs run
χ² / ndf 59.23 / 81
p0 −5430 ± 3063
pull
Entries 82
Mean 1001
Std Dev 0

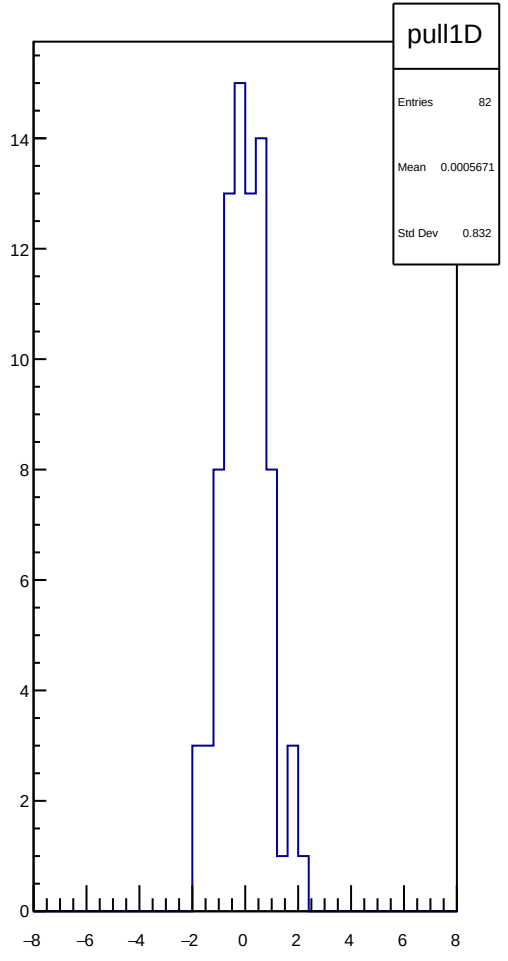

pull1D
Entries 82
Mean −0.001746
Std Dev 0.8499

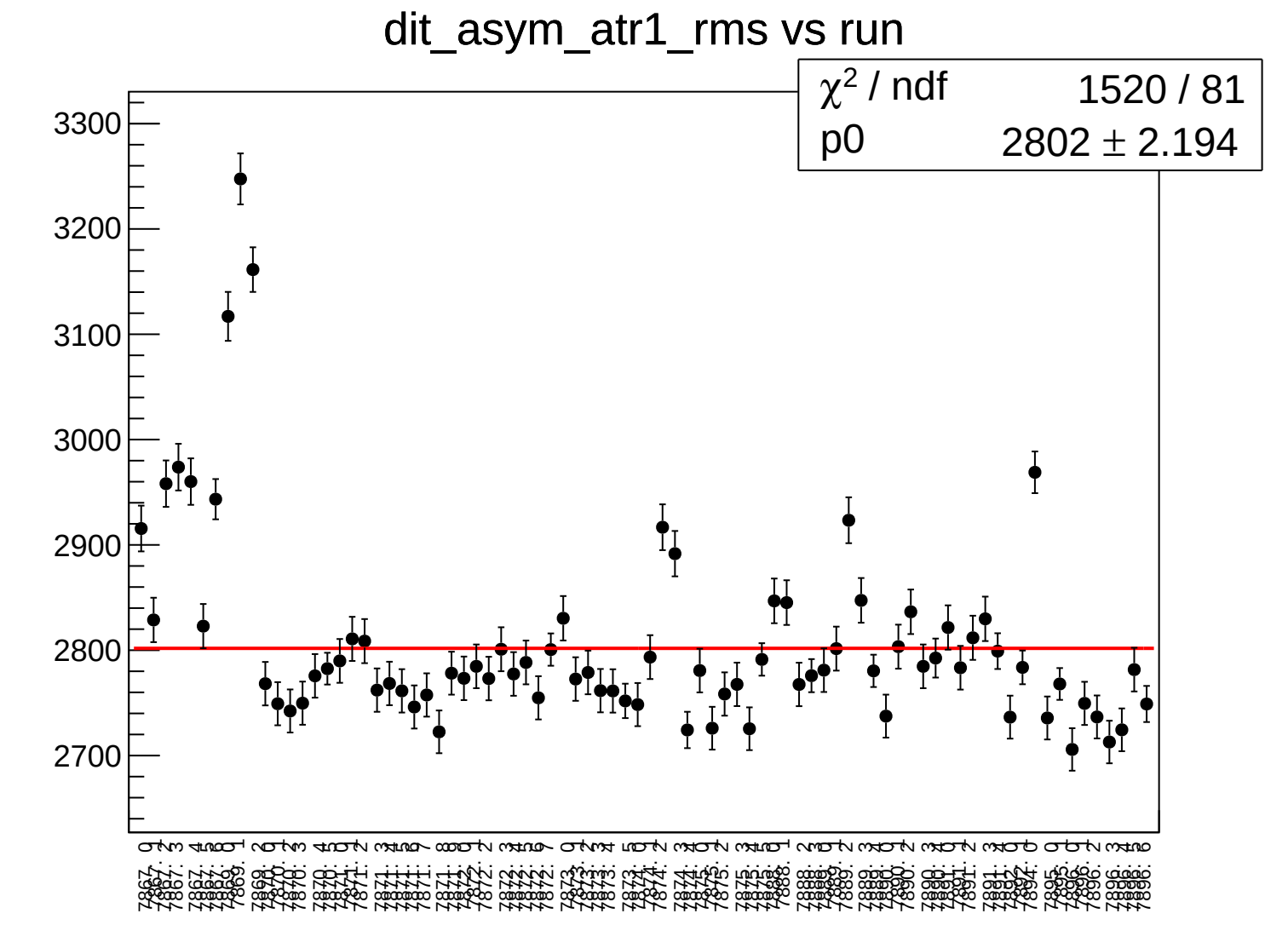

eigen_cor_asym_atr1_rms vs run
χ² / ndf 737.5 / 81
p0 2767 ± 2.166
3050
3000
2950
2900
2850
2800
2750
2700
2650

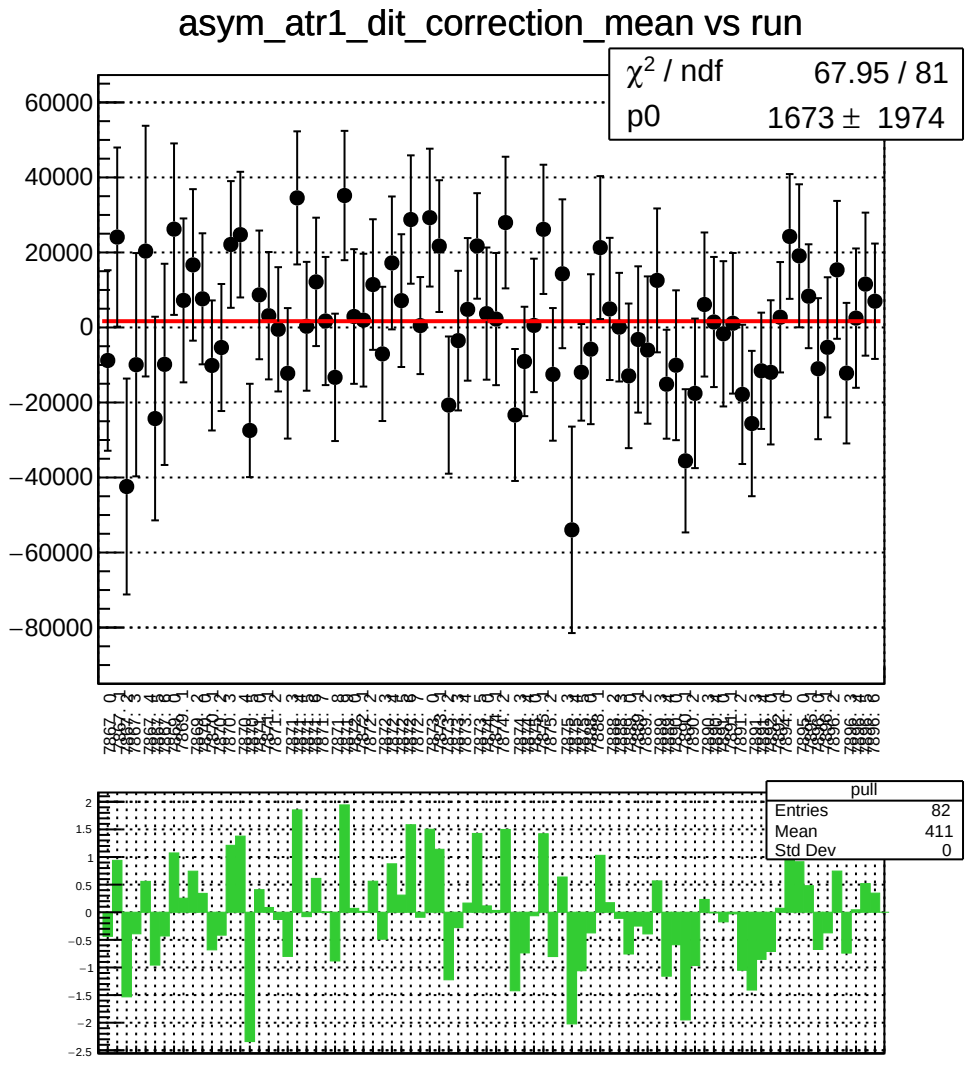

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 67.92 / 81
p0 1445 ± 2051
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −303.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.008402
Std Dev 0.9101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

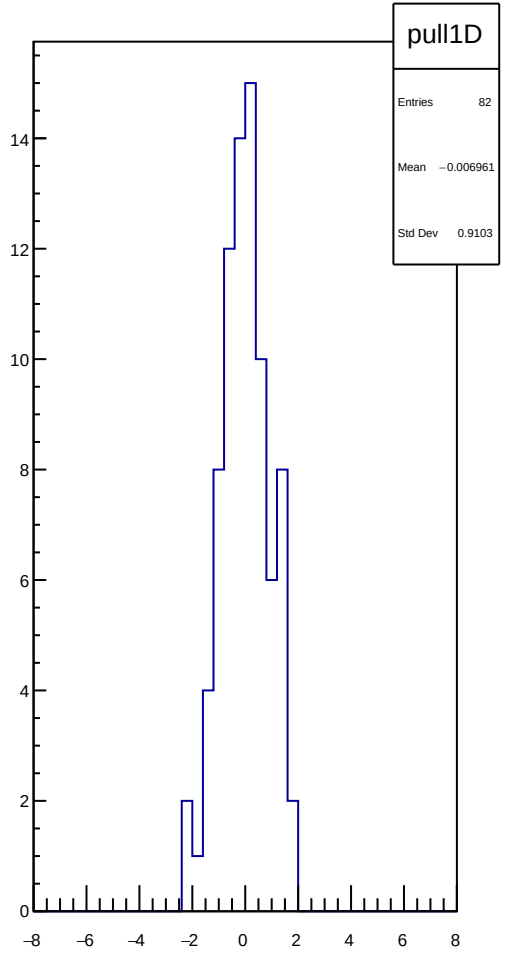

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 6.588e+04 / 81
p0 1815 ± 1.45
3500
3000
2500
2000
1500
1000

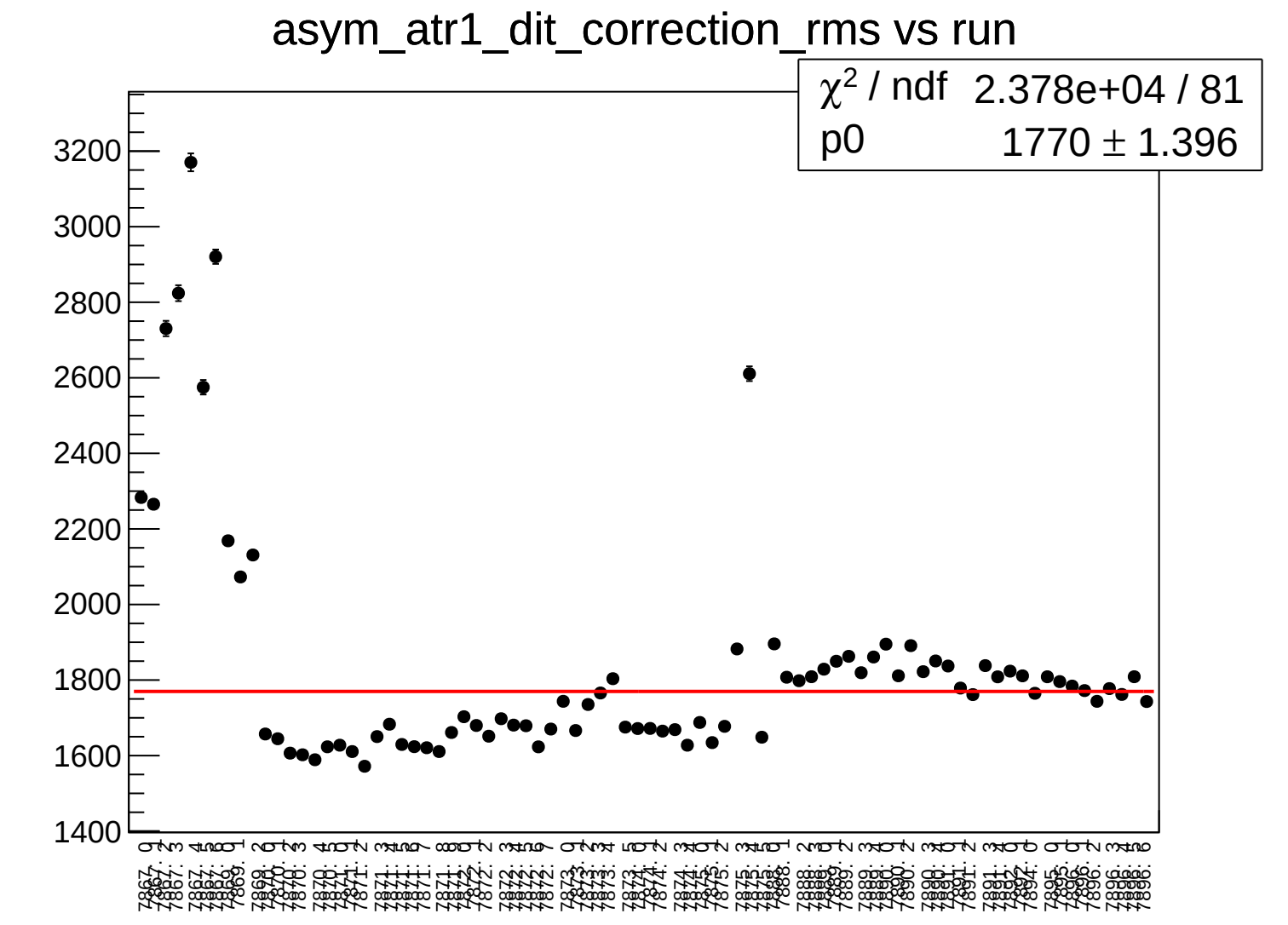

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 56.77 / 81
p0 −6120 ± 3103
pull
Entries 82
Mean −1585
Std Dev 0

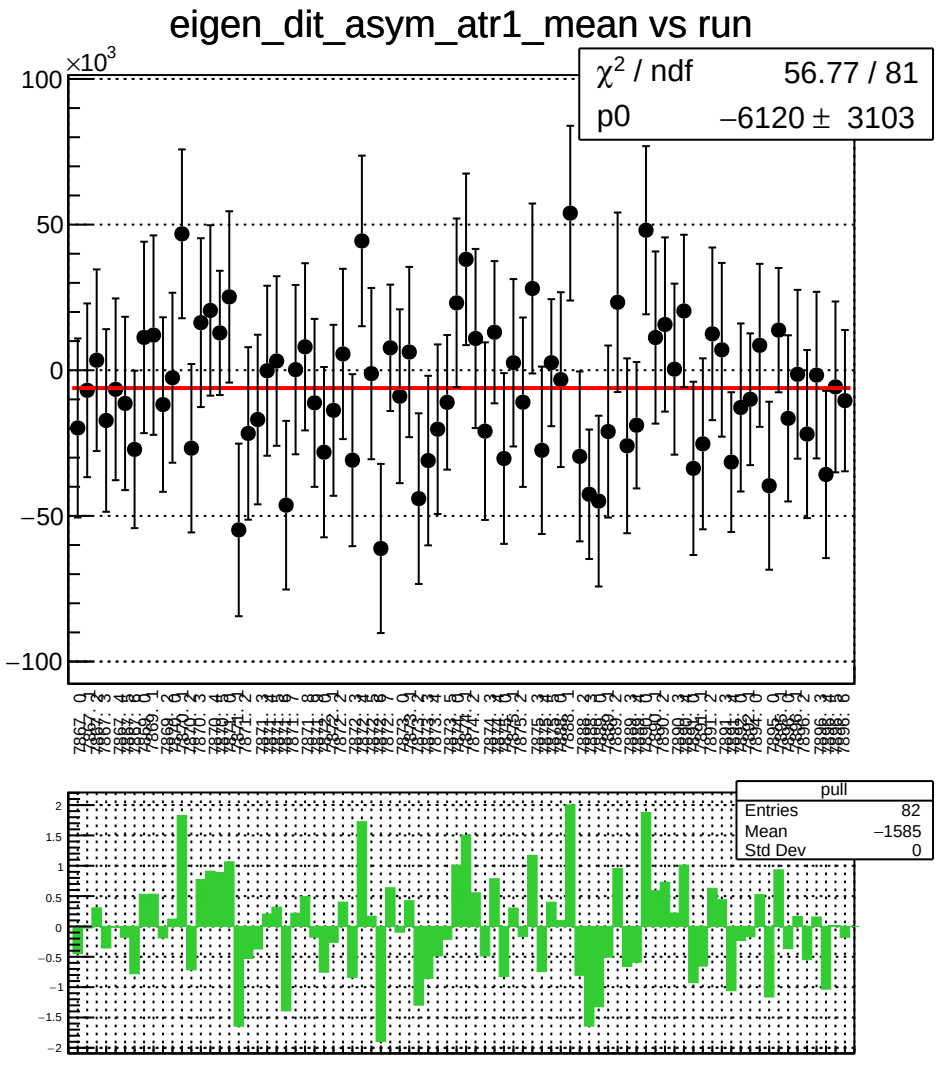

pull1D
Entries 82
Mean 0.0005671
Std Dev 0.832

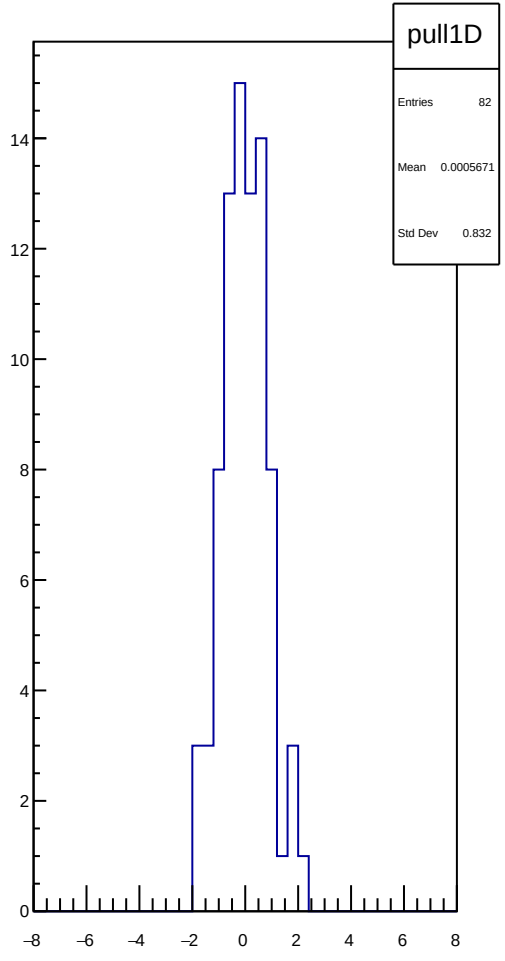

dit_asym_atr1_rms vs run
χ² / ndf 1520 / 81
p0 2802 ± 2.194
3300
3200
3100
3000
2900
2800
2700

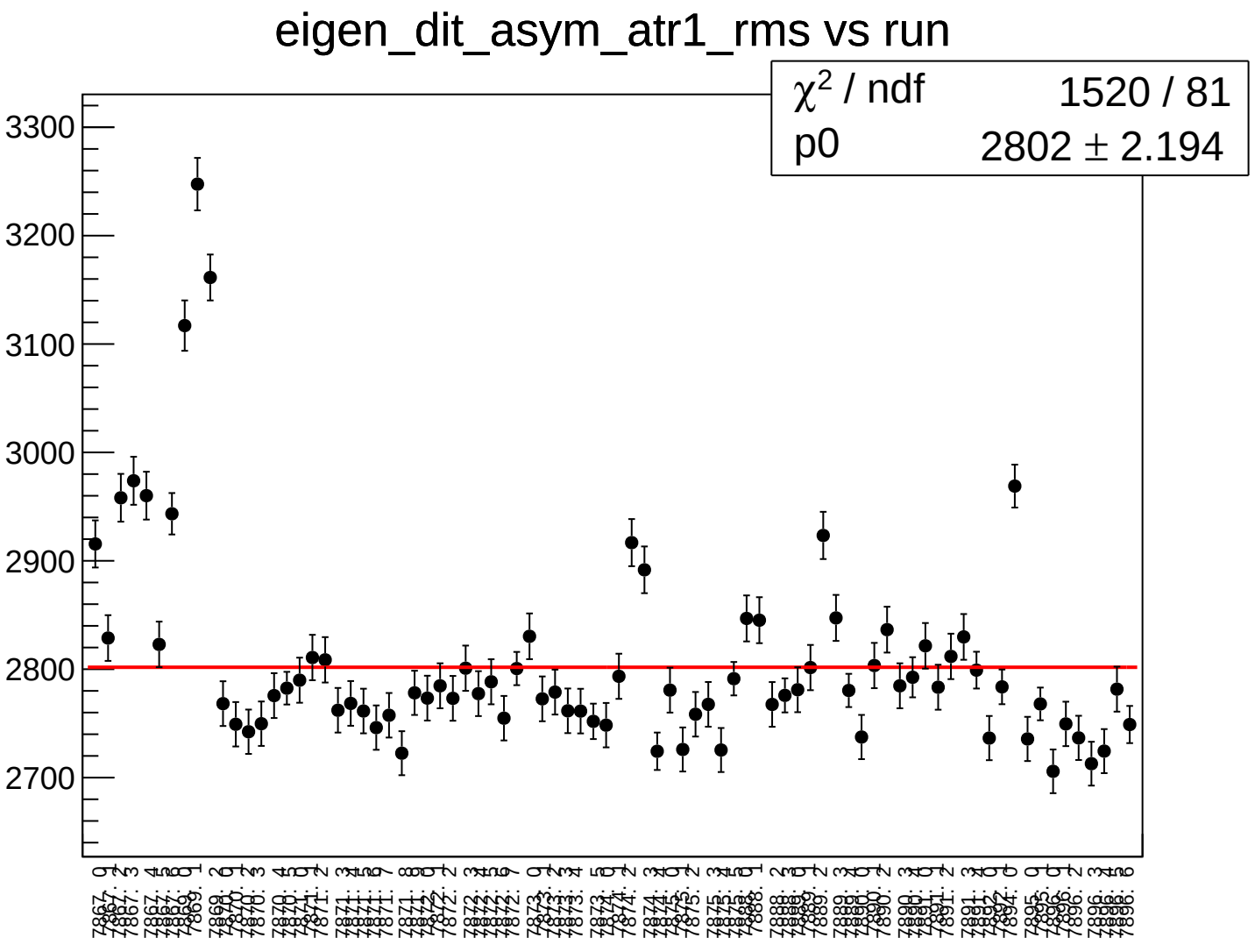

asym_atr1_dit_correction_mean vs run
χ² / ndf 67.95 / 81
p0 1673 ± 1974
pull
Entries 82
Mean 411
Std Dev 0

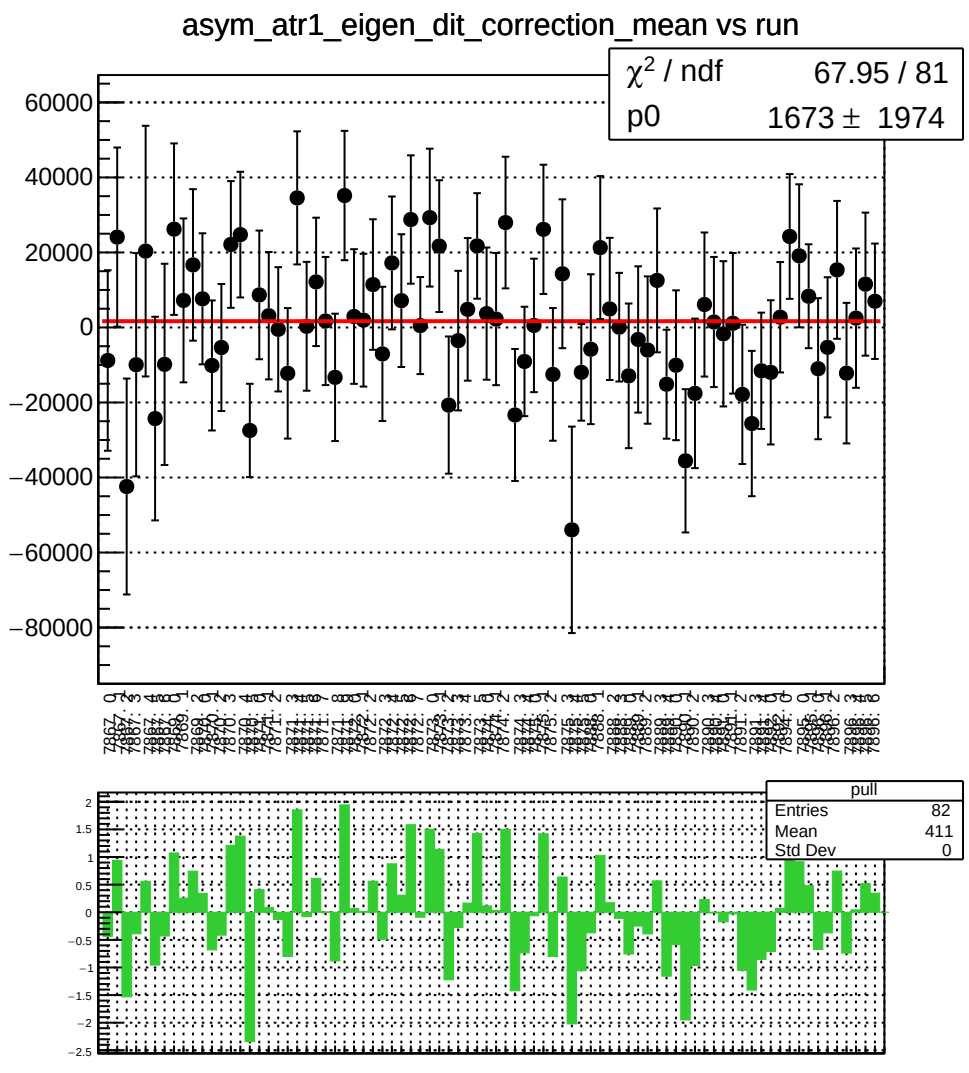

pull1D
Entries 82
Mean −0.006961
Std Dev 0.9103

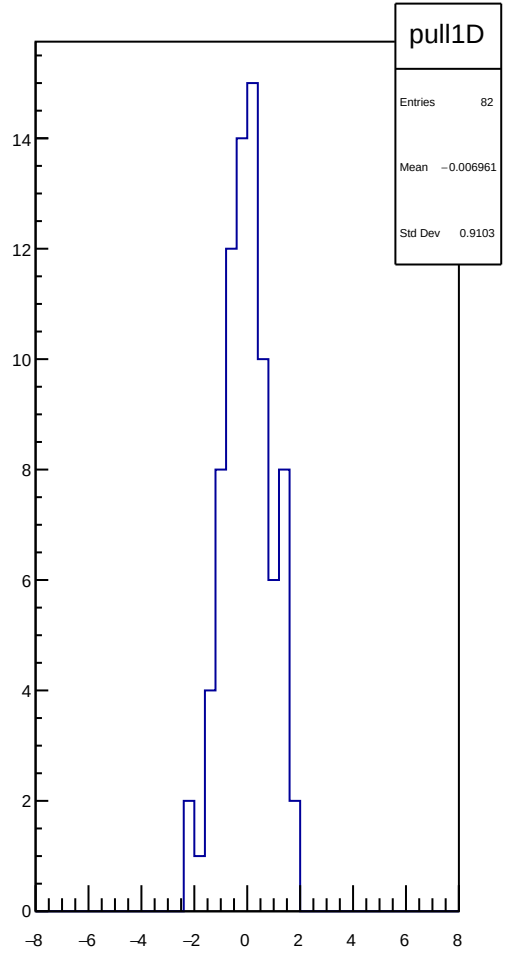

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.378e+04 / 81
p0 1770 ± 1.396
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

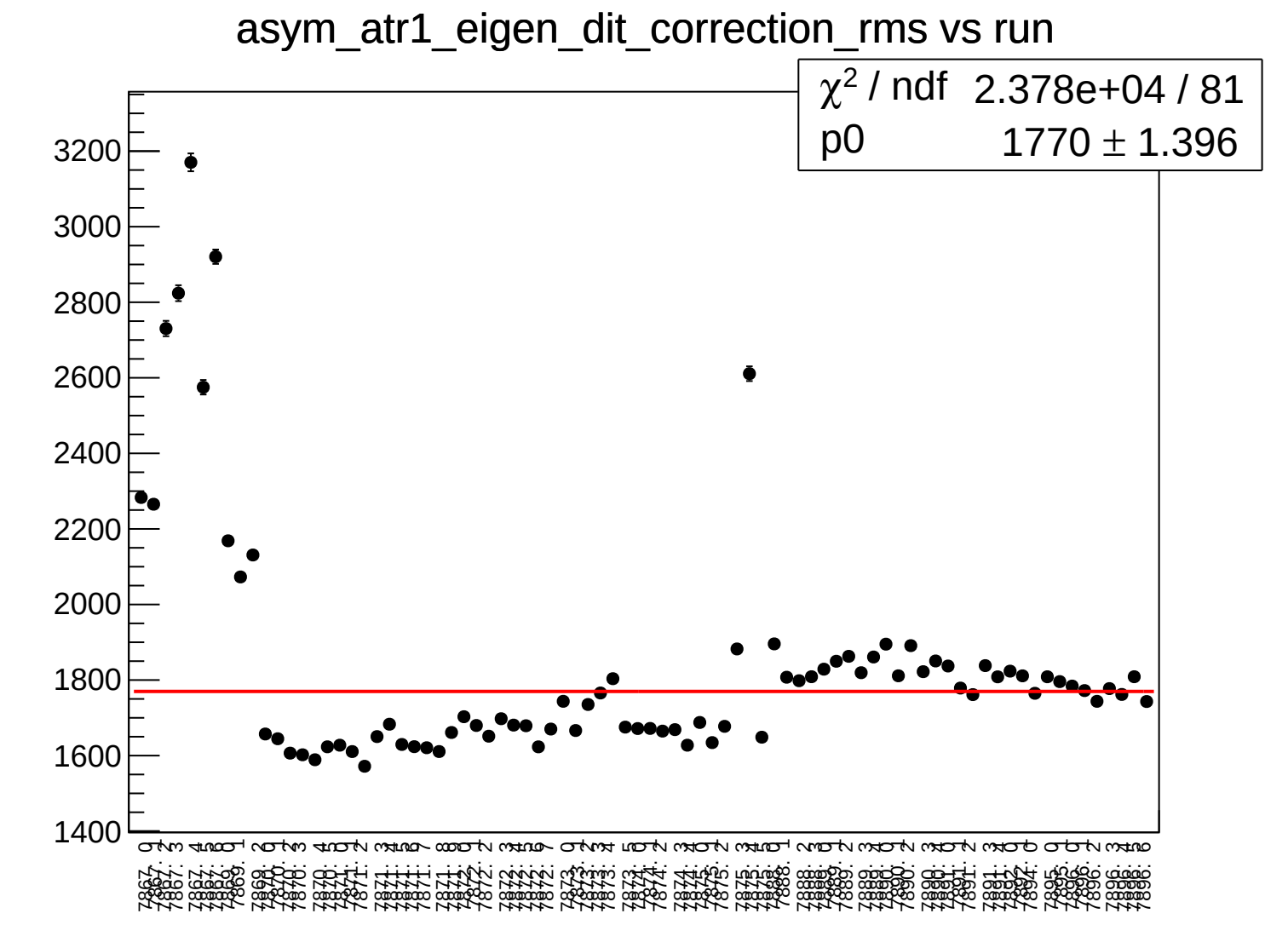

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 56.77 / 81
p0 −6120 ± 3103
pull
Entries 82
Mean −1585
Std Dev 0

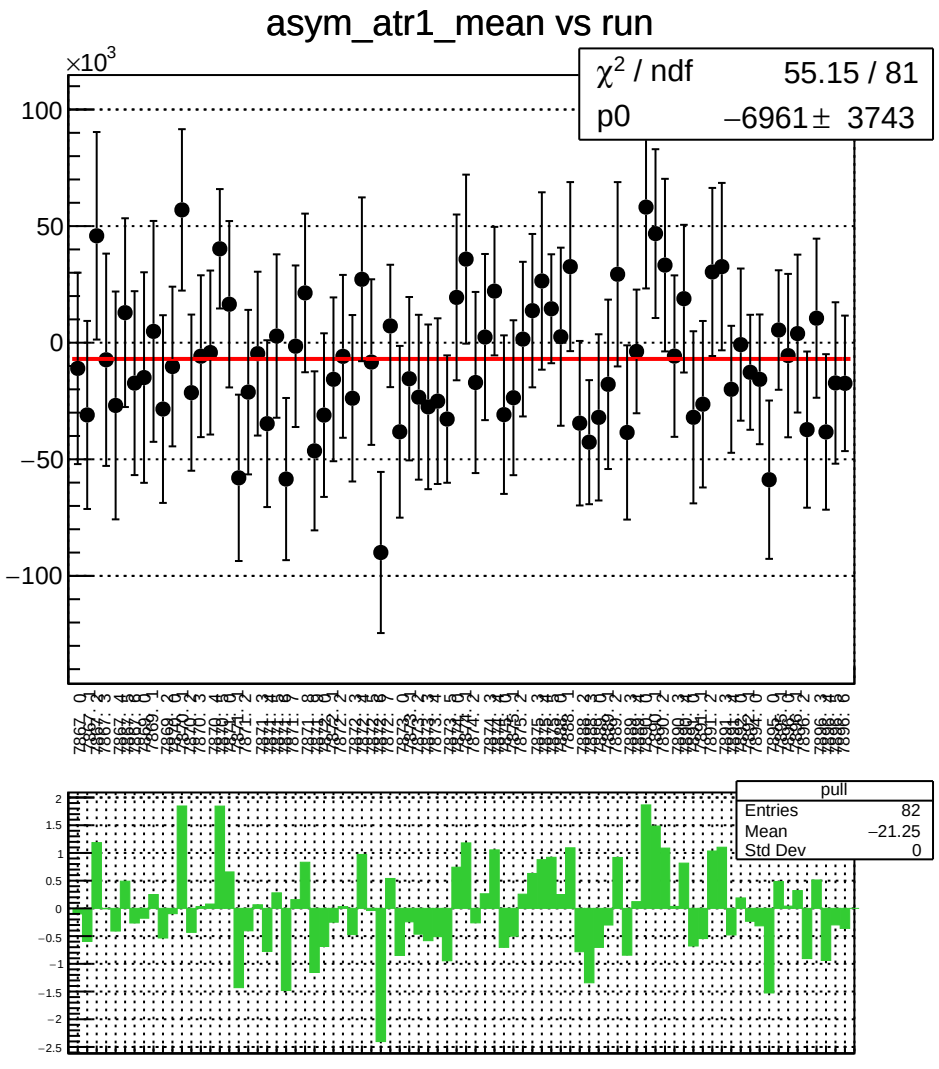

pull1D
Entries 82
Mean 0.0005671
Std Dev 0.832

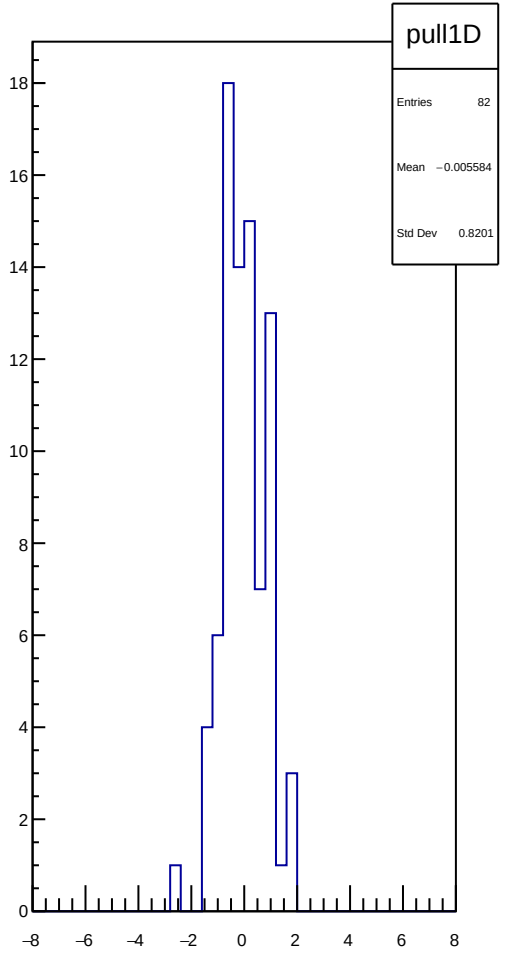

eigen_dit_asym_atr1_rms vs run
χ² / ndf 1520 / 81
p0 2802 ± 2.194
3300
3200
3100
3000
2900
2800
2700

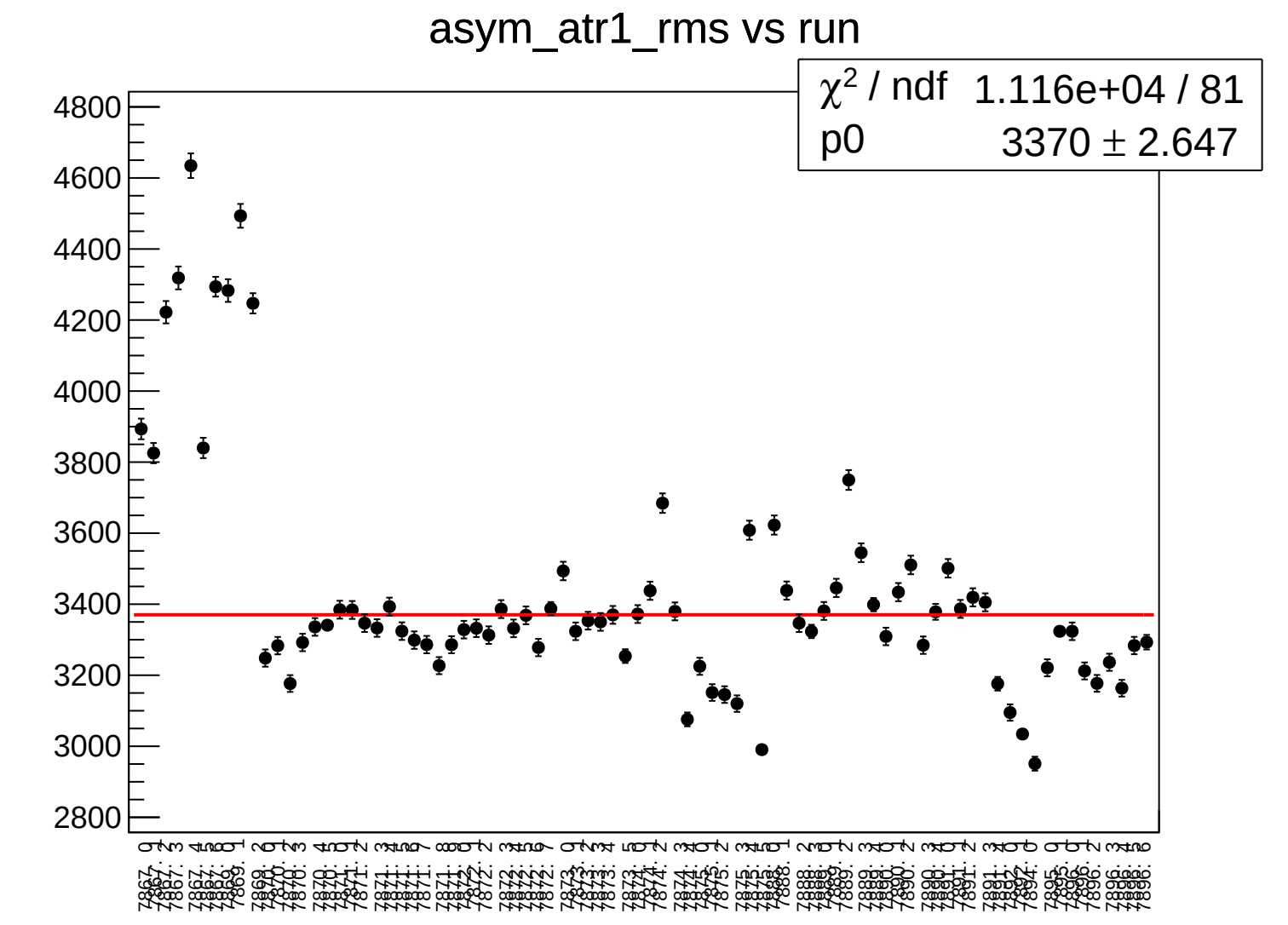

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 67.95 / 81
p0 1673 ± 1974
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 411
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

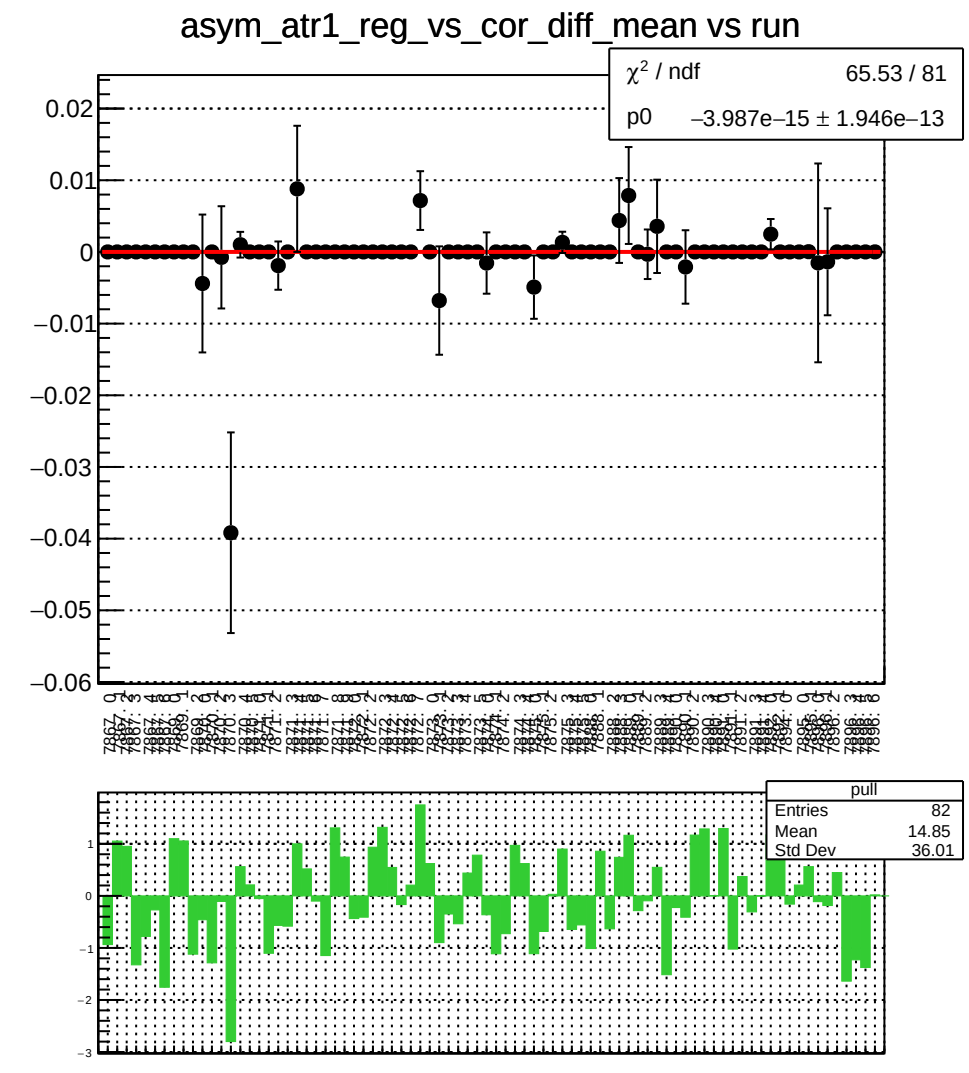

pull1D
Entries 82
Mean −0.006961
Std Dev 0.9103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

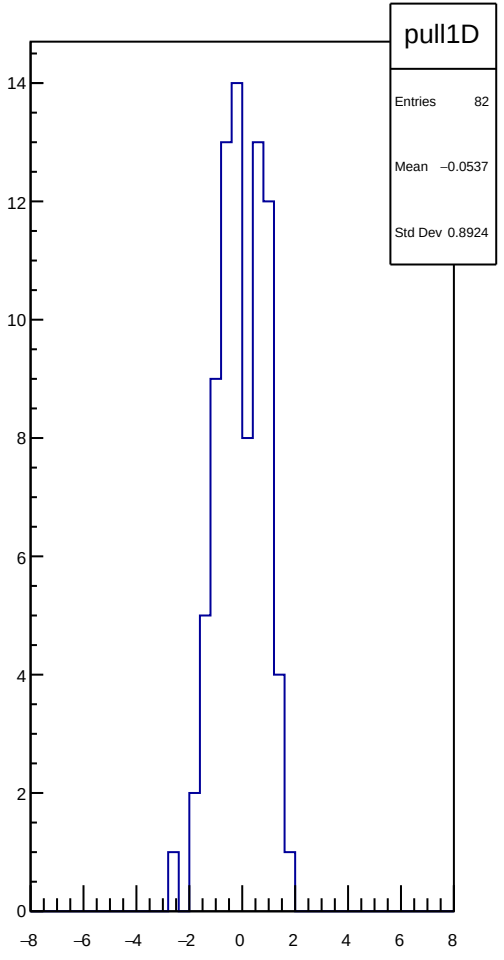

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.378e+04 / 81
p0 1770 ± 1.396
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

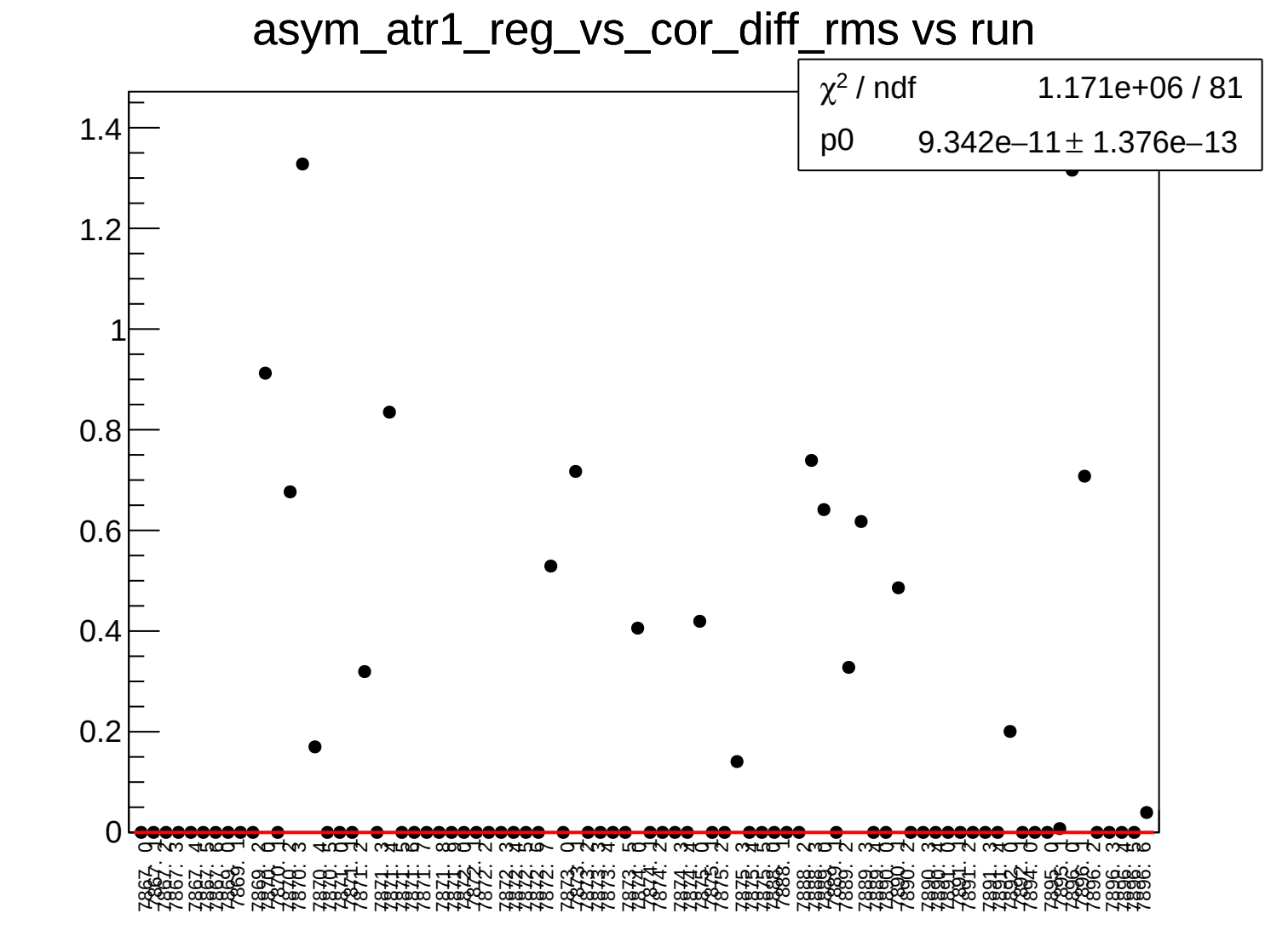

asym_atr1_mean vs run
×10^3
χ² / ndf 55.15 / 81
p0 −6961 ± 3743
pull
Entries 82
Mean −21.25
Std Dev 0

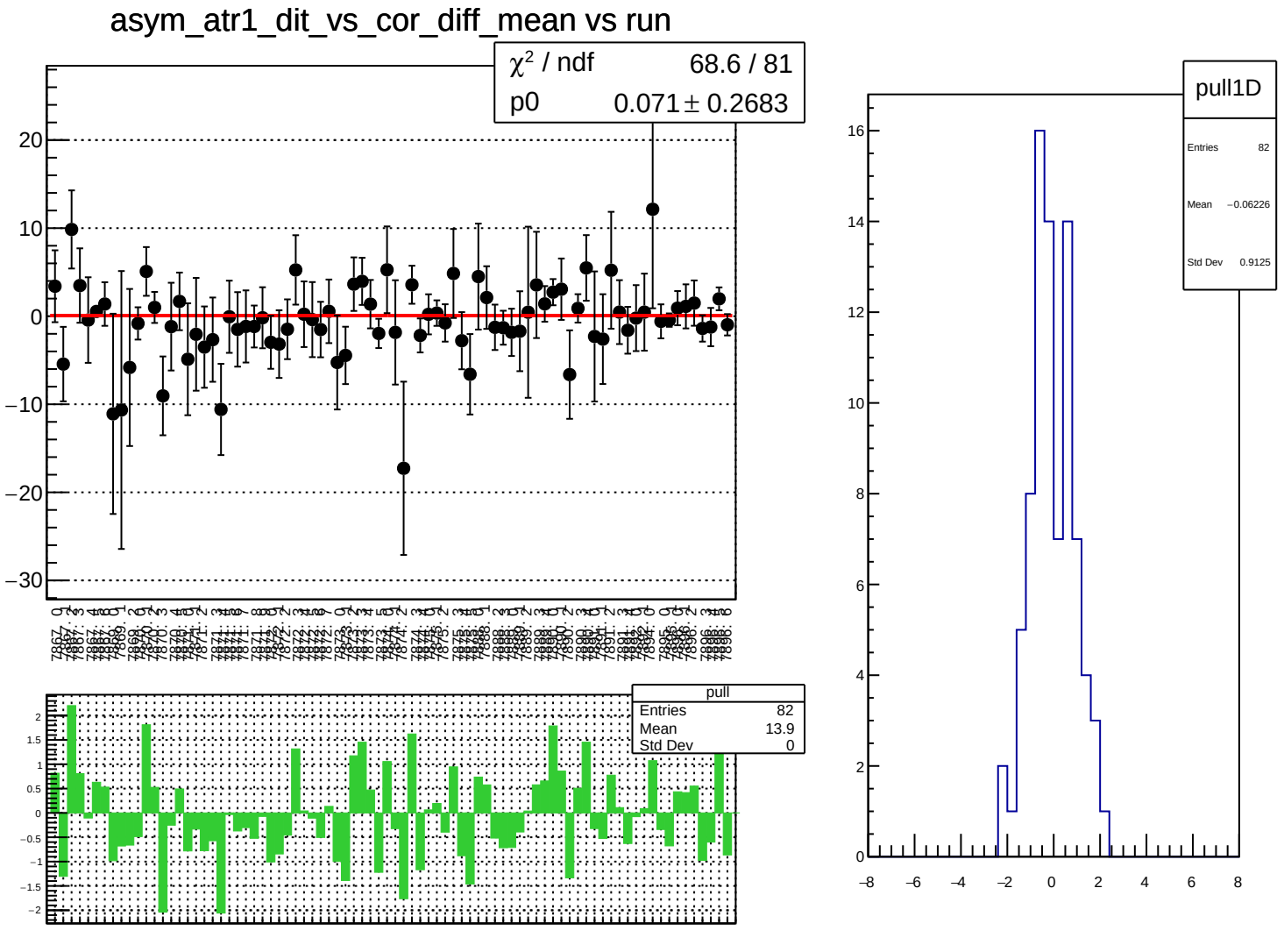

pull1D
Entries 82
Mean −0.005584
Std Dev 0.8201

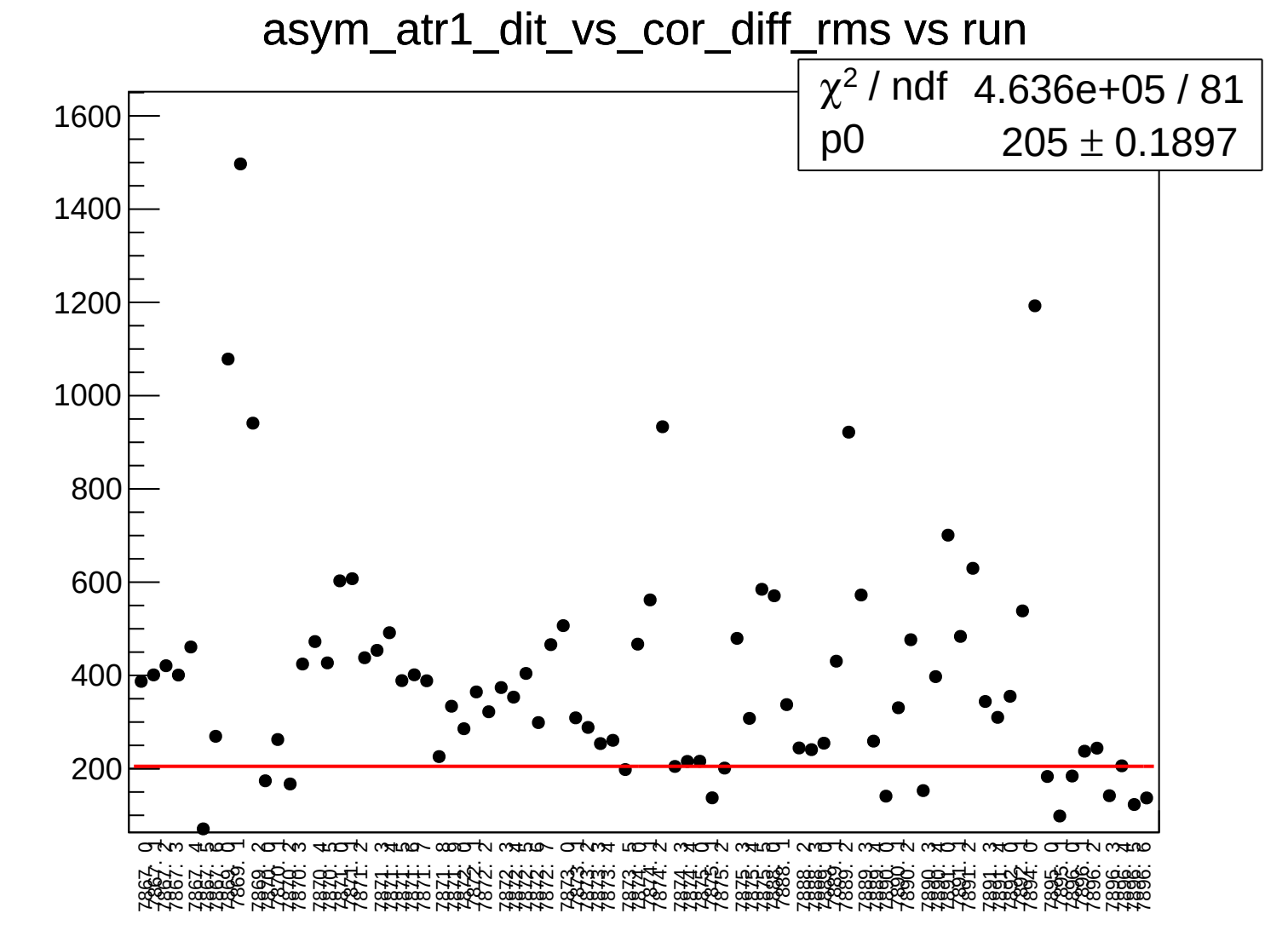

asym_atr1_rms vs run
χ^2 / ndf 1.116e+04 / 81
p0 3370 ± 2.647
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

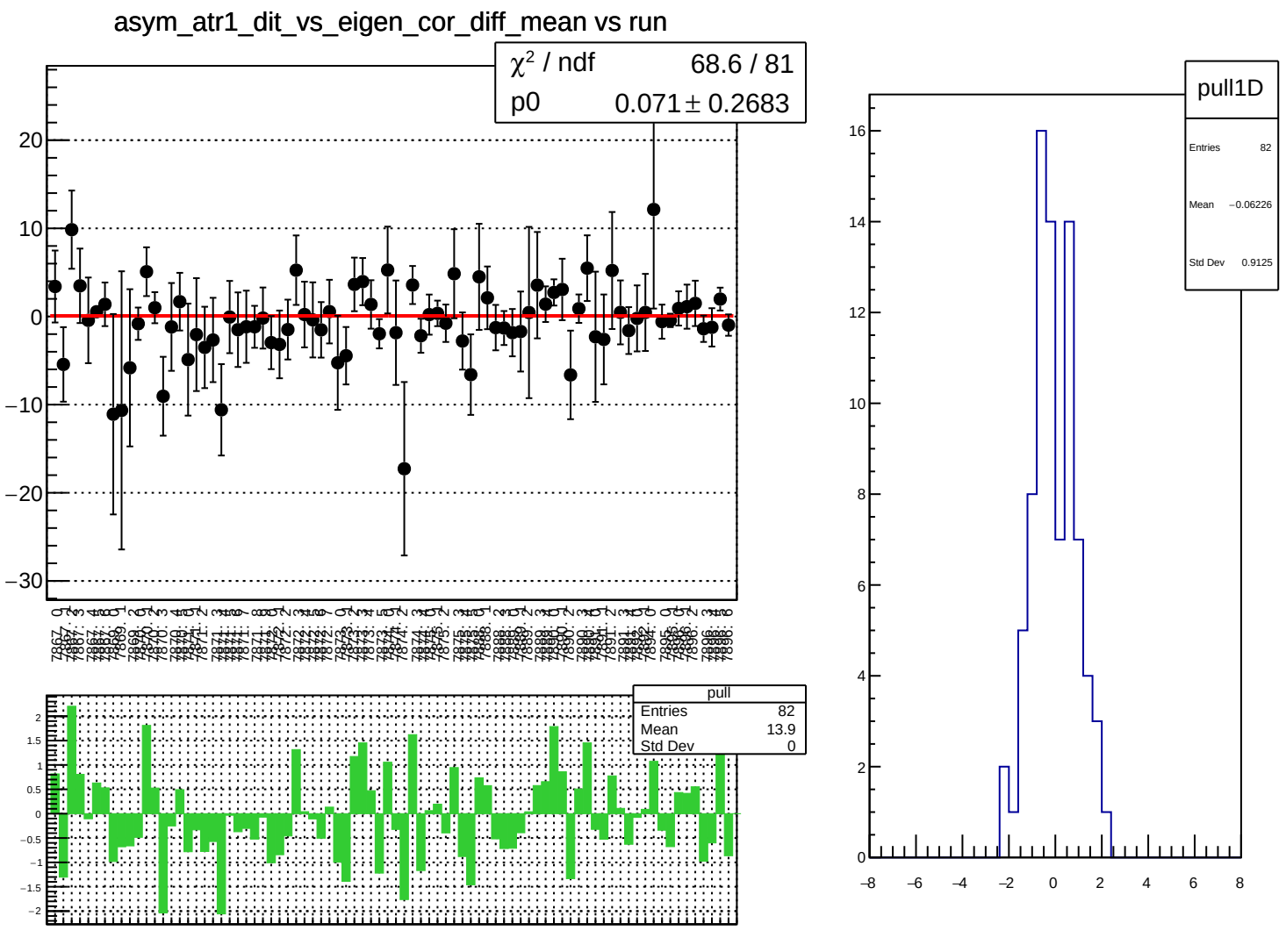

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 65.53 / 81
p0 −3.987e−15 ± 1.946e−13
pull
Entries 82
Mean 14.85
Std Dev 36.01

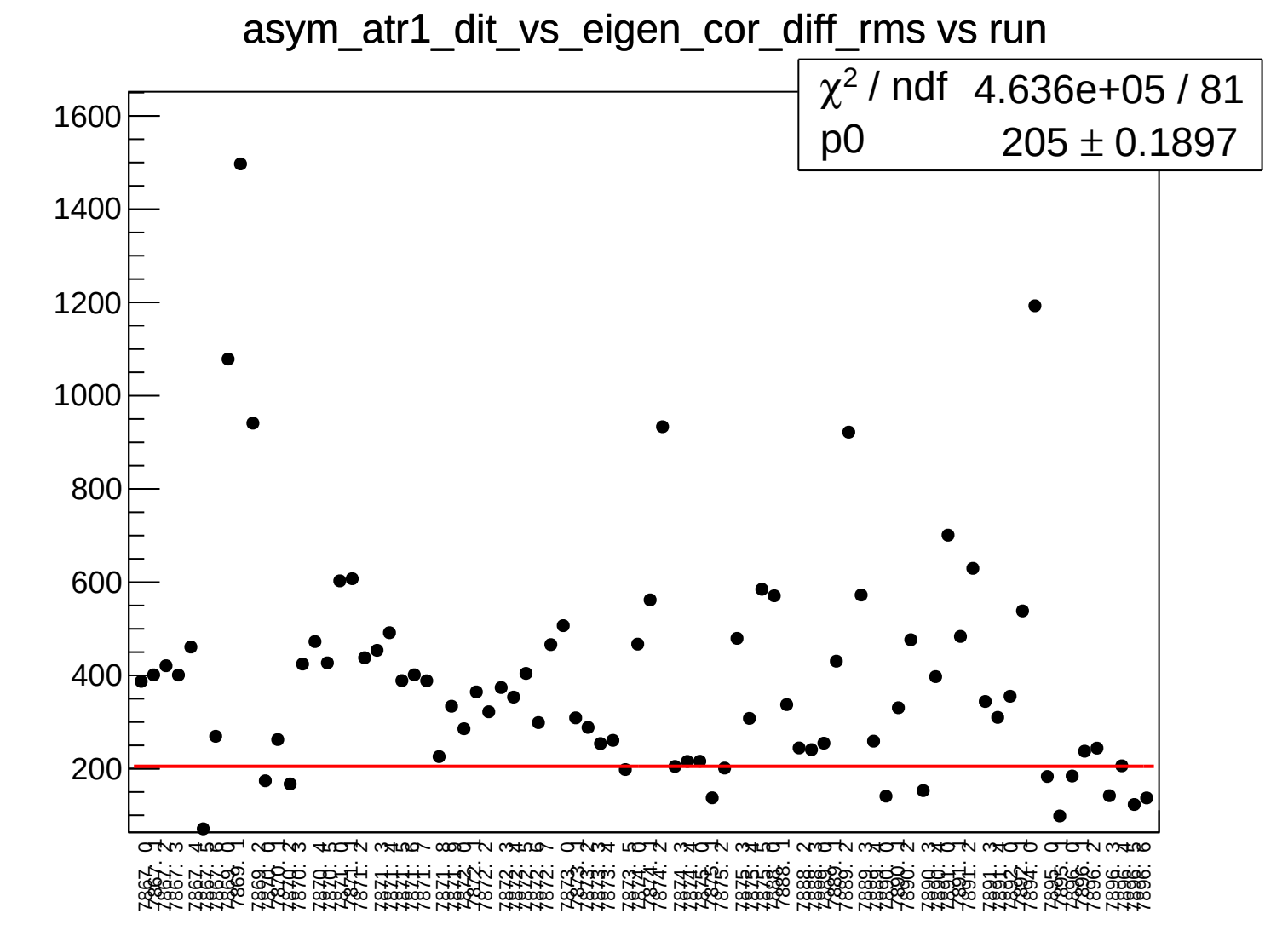

pull1D
Entries 82
Mean −0.0537
Std Dev 0.8924

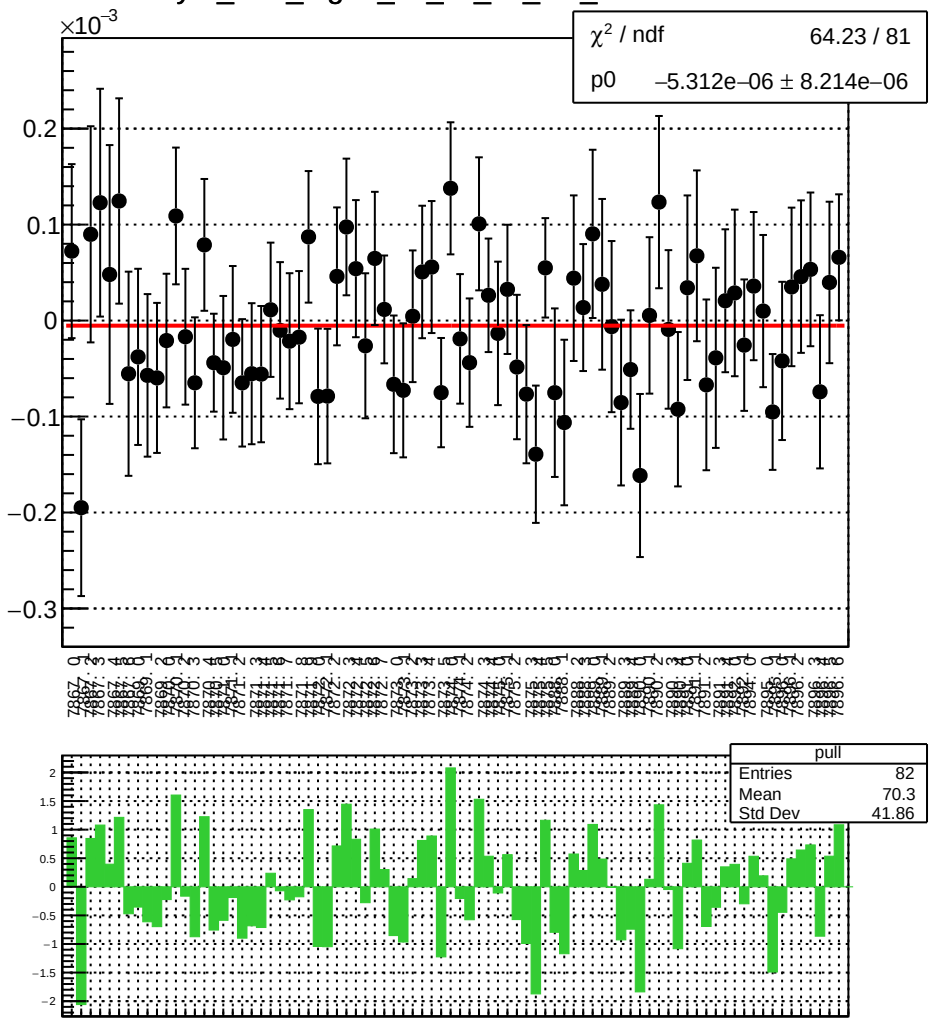

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.171e+06 / 81
p0 9.342e−11 ± 1.376e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

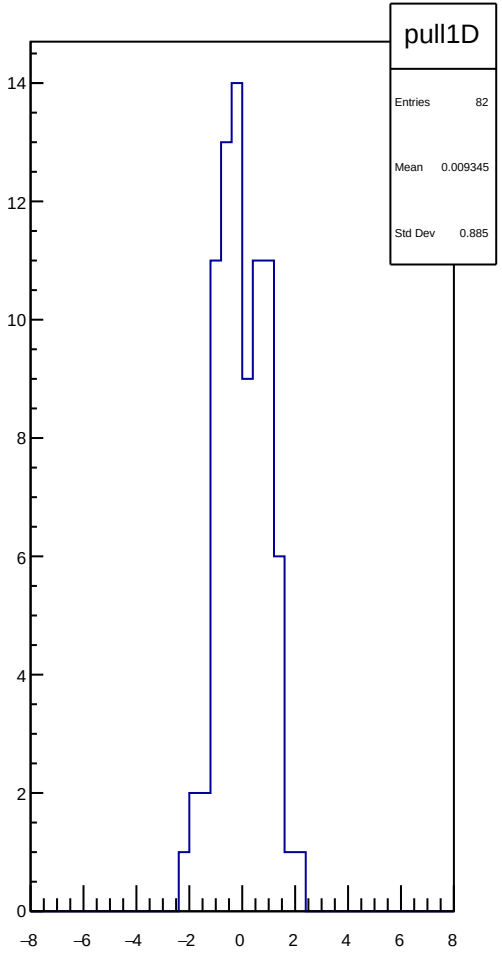

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 68.6 / 81
p0 0.071 ± 0.2683
pull
Entries 82
Mean 13.9
Std Dev 0
pull1D
Entries 82
Mean −0.06226
Std Dev 0.9125

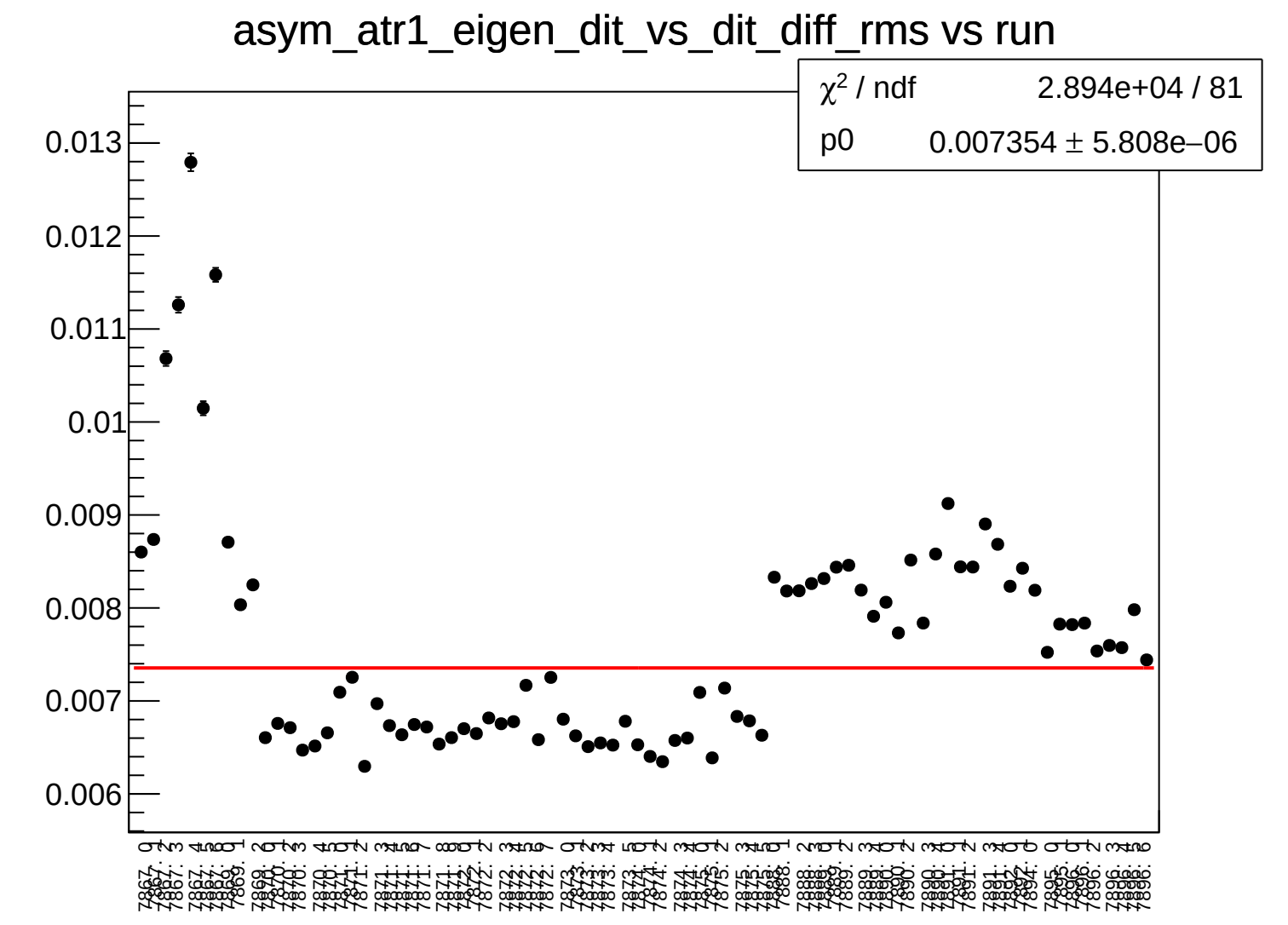

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.636e+05 / 81
p0 205 ± 0.1897
1600
1400
1200
1000
800
600
400
200

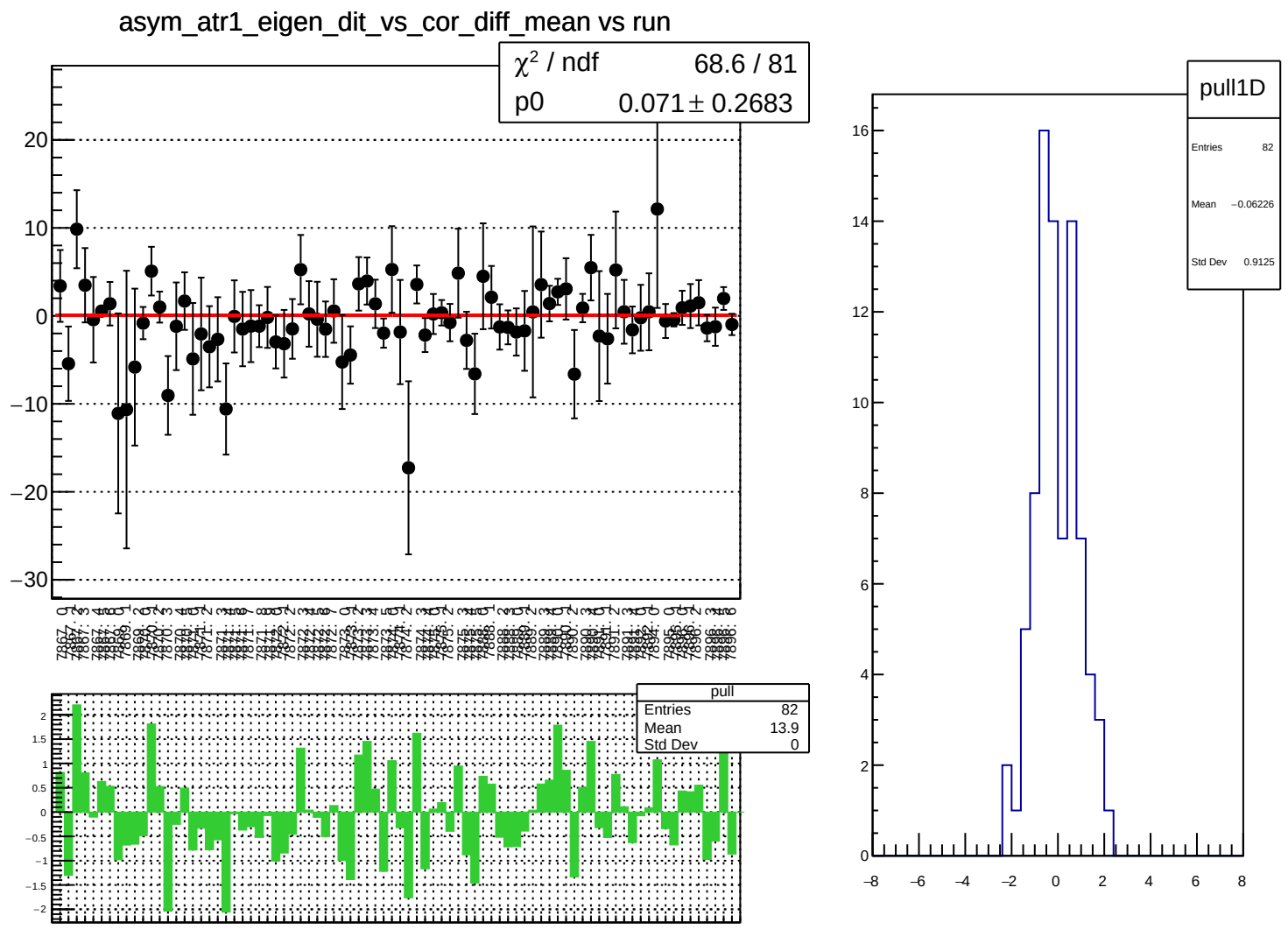

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.6 / 81
p0 0.071 ± 0.2683
pull
Entries 82
Mean 13.9
Std Dev 0
pull1D
Entries 82
Mean −0.06226
Std Dev 0.9125

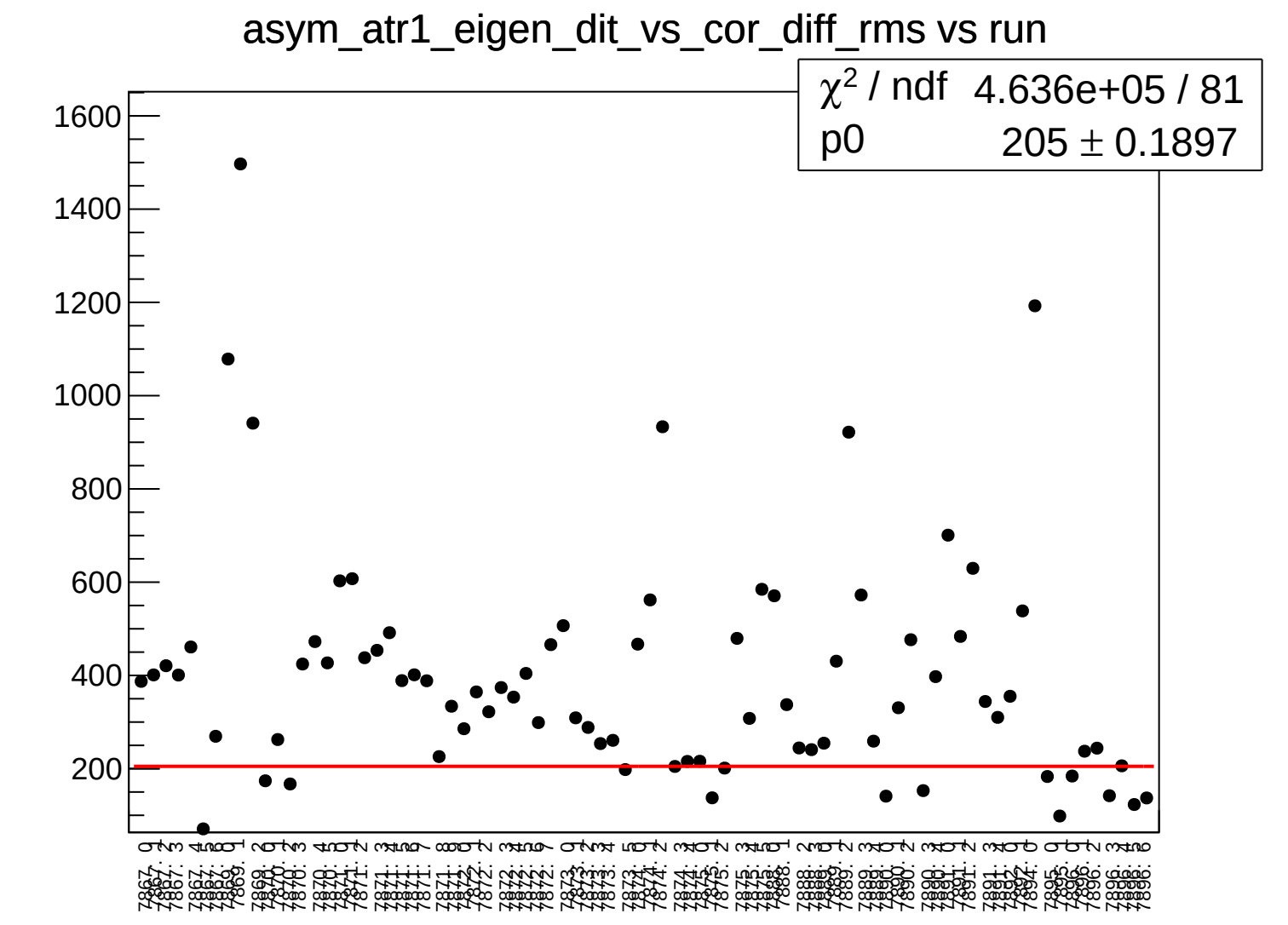

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.636e+05 / 81
p0 205 ± 0.1897
1600
1400
1200
1000
800
600
400
200

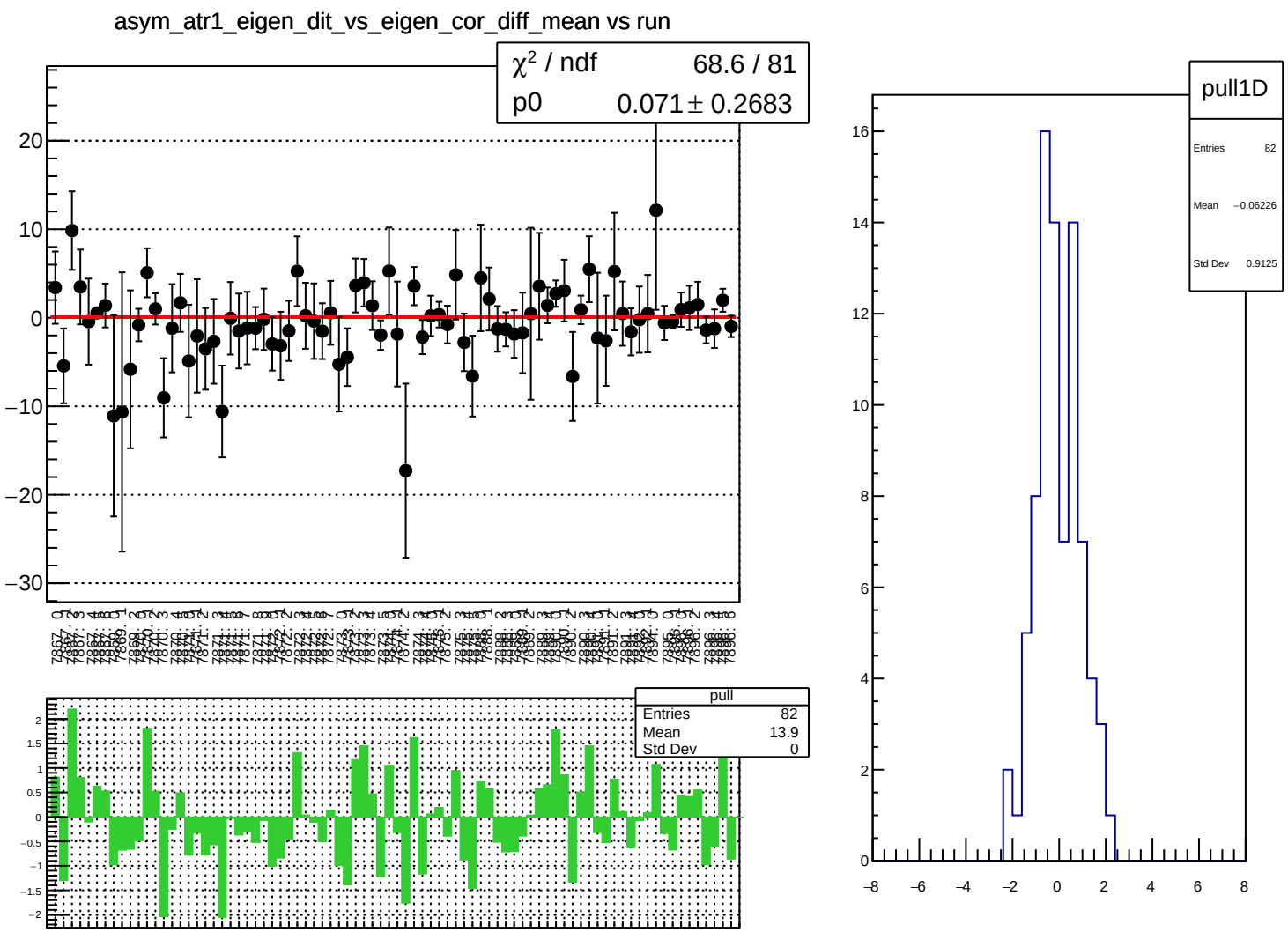

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.23 / 81
p0 −5.312e−06 ± 8.214e−06
pull
Entries 82
Mean 70.3
Std Dev 41.86

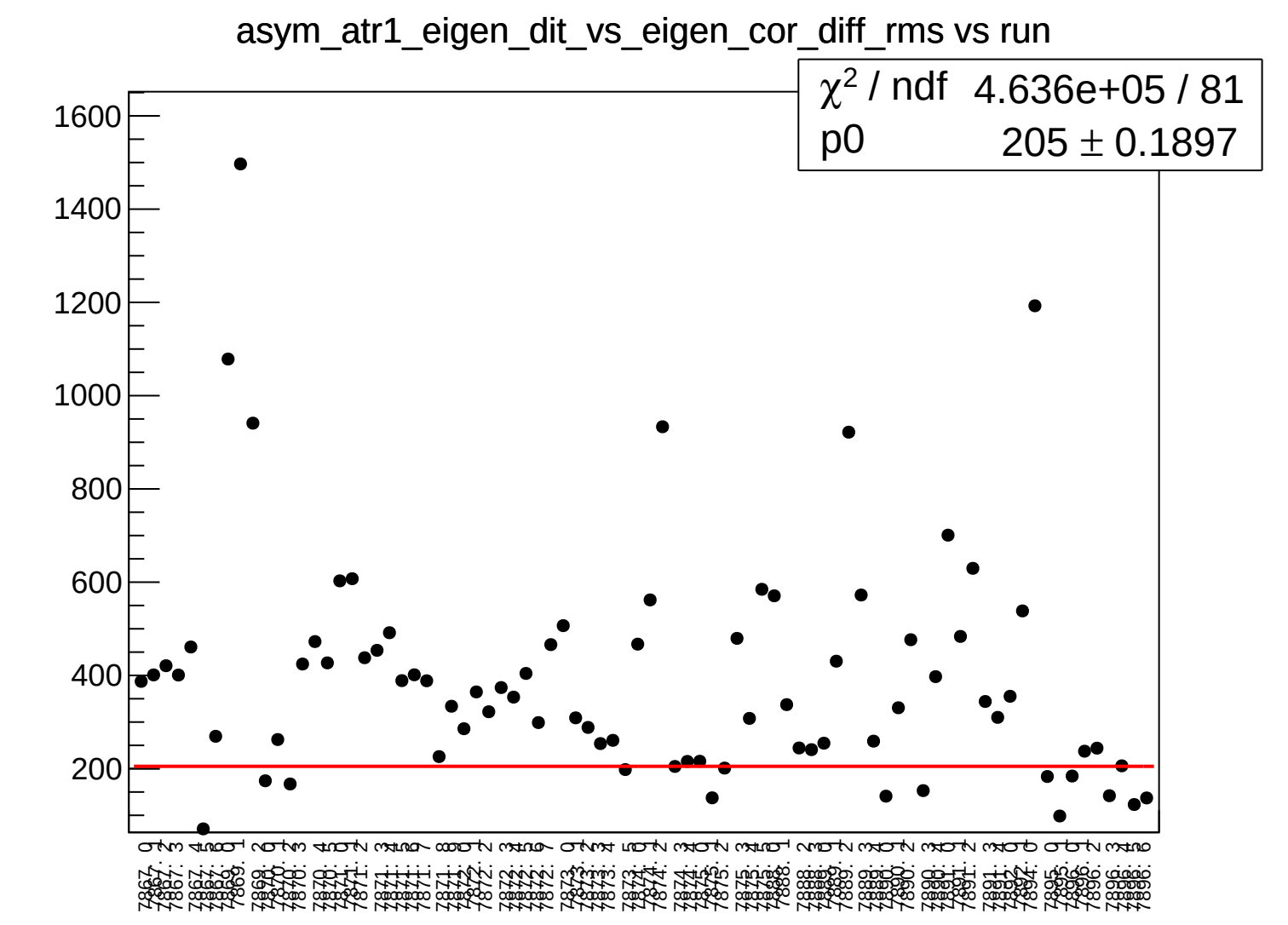

pull1D
Entries 82
Mean 0.009345
Std Dev 0.885

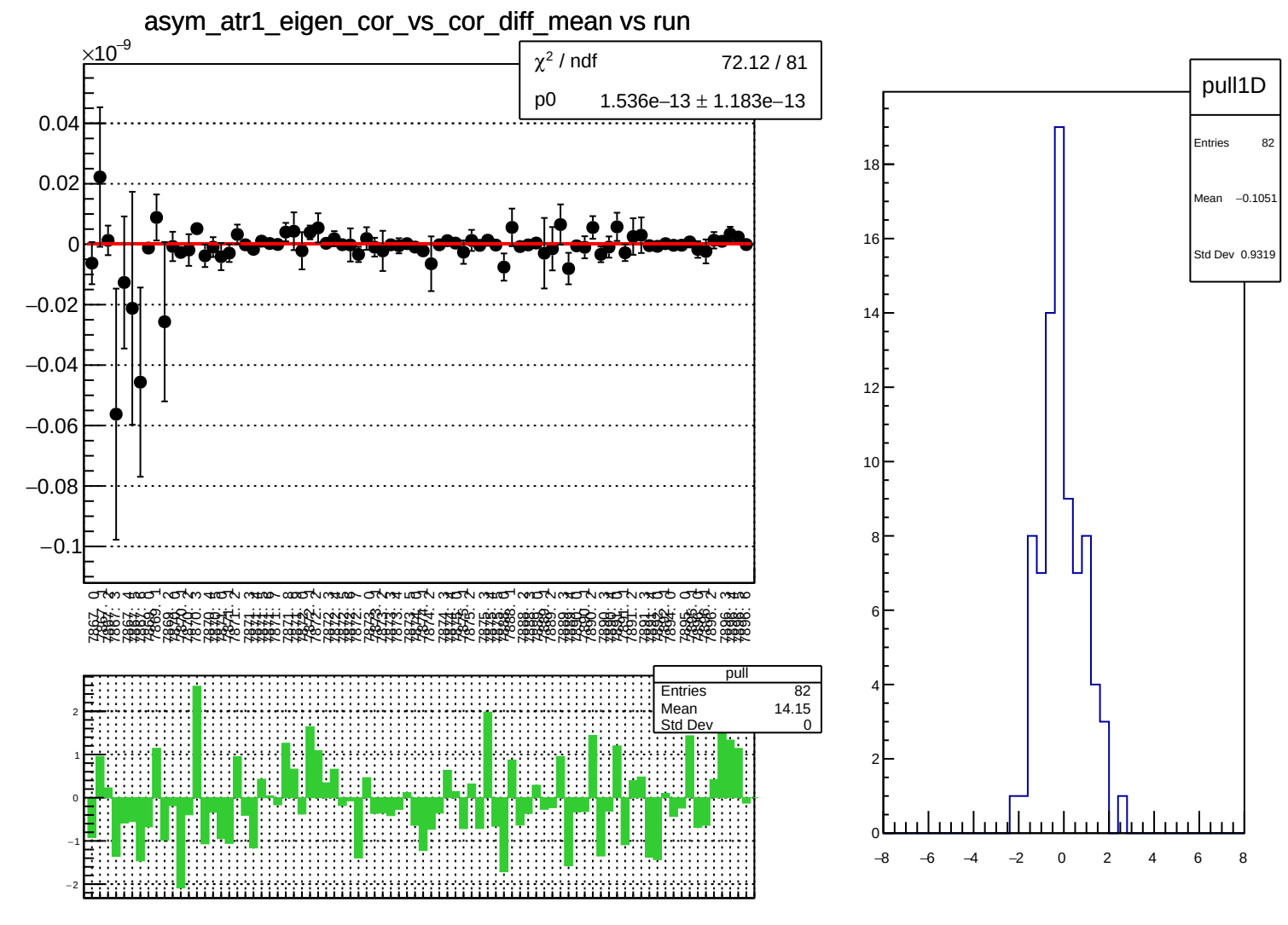

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.894e+04 / 81
p0 0.007354 ± 5.808e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

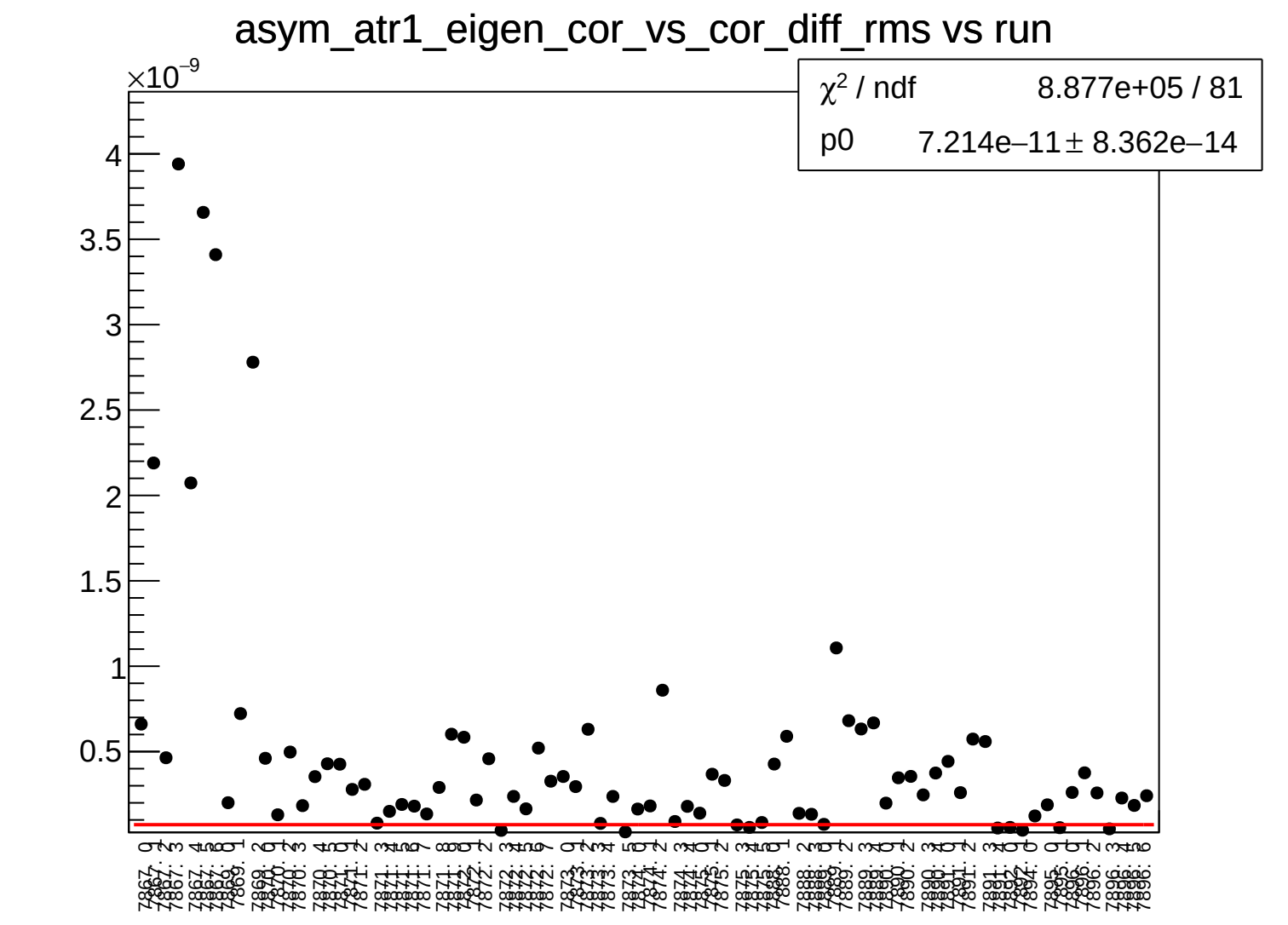

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.6 / 81
p0 0.071 ± 0.2683
pull
Entries 82
Mean 13.9
Std Dev 0
pull1D
Entries 82
Mean −0.06226
Std Dev 0.9125

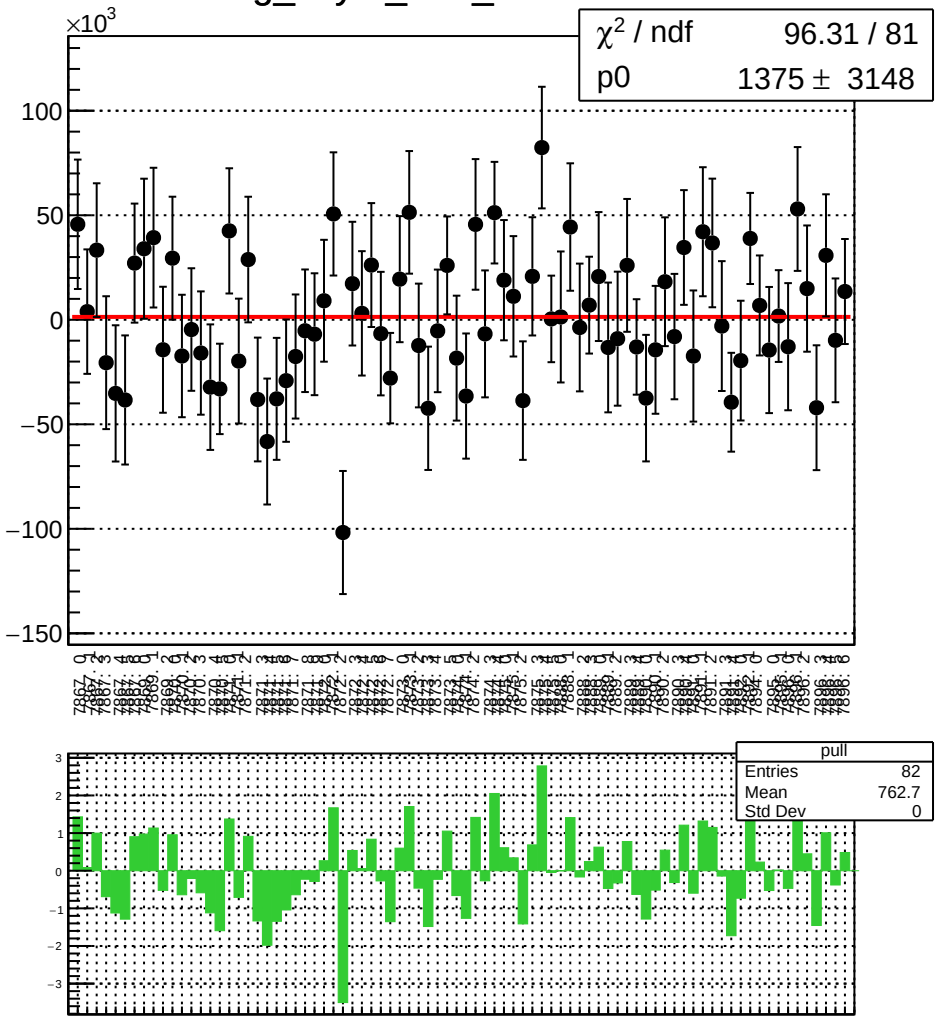

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.636e+05 / 81
p0 205 ± 0.1897
1600
1400
1200
1000
800
600
400
200

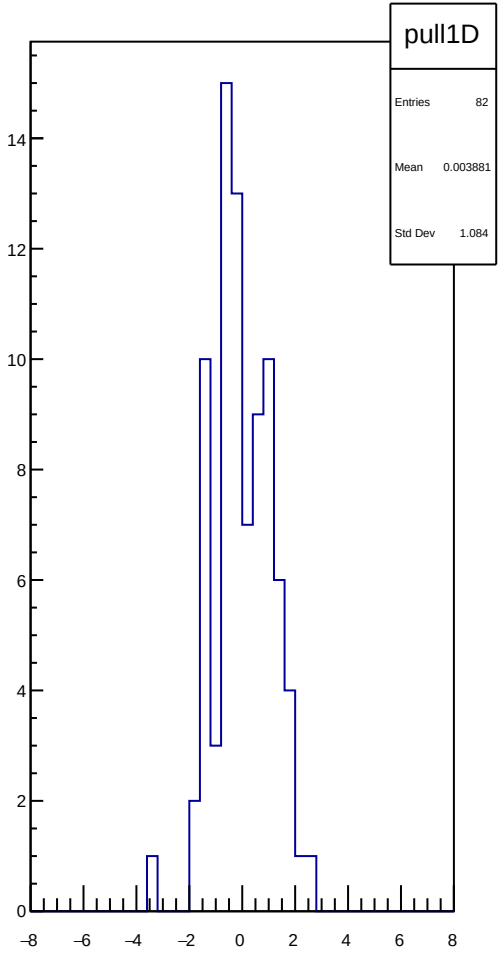

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.6 / 81
p0 0.071 ± 0.2683
pull
Entries 82
Mean 13.9
Std Dev 0
pull1D
Entries 82
Mean −0.06226
Std Dev 0.9125

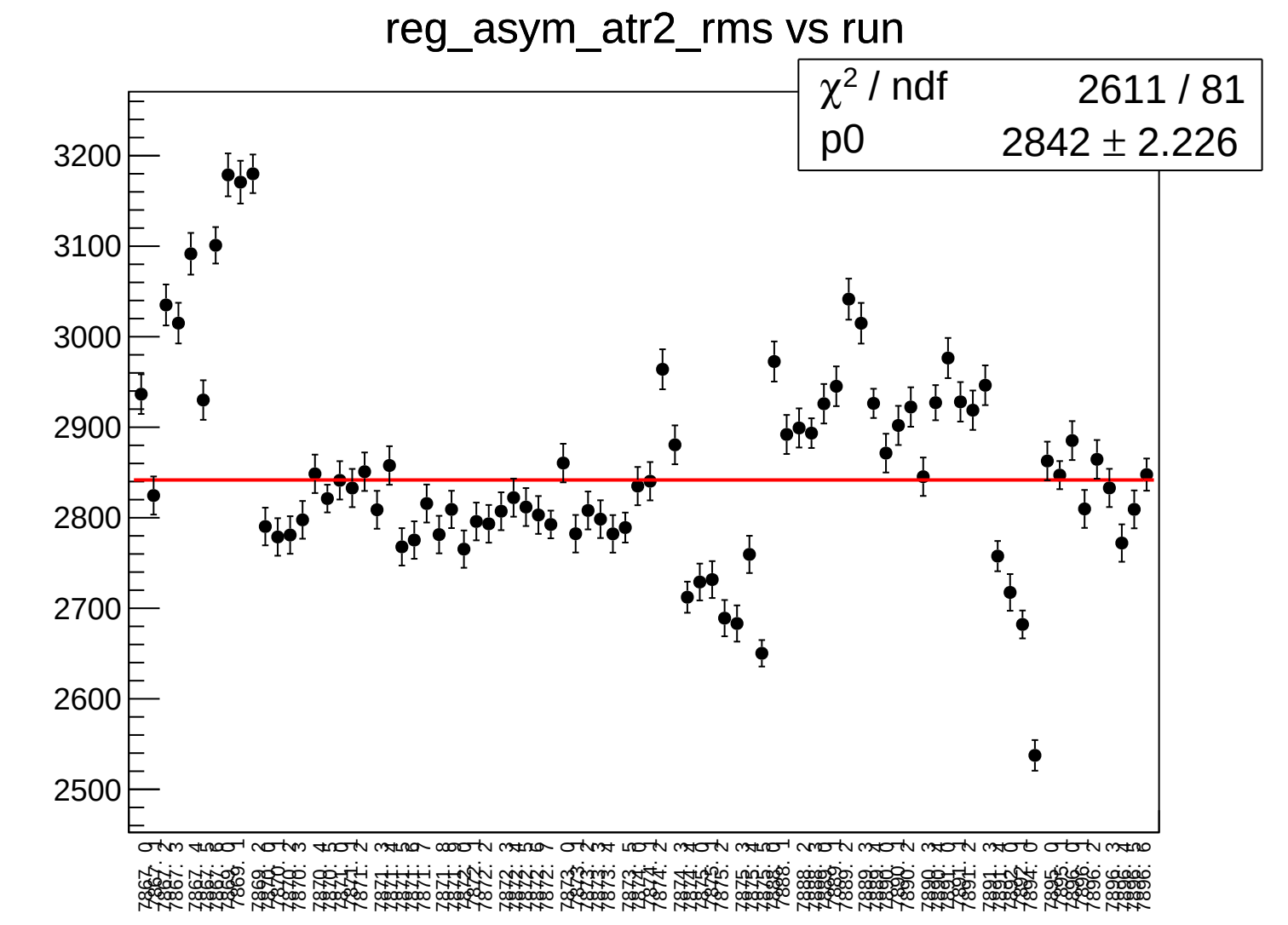

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.636e+05 / 81
p0 205 ± 0.1897
1600
1400
1200
1000
800
600
400
200

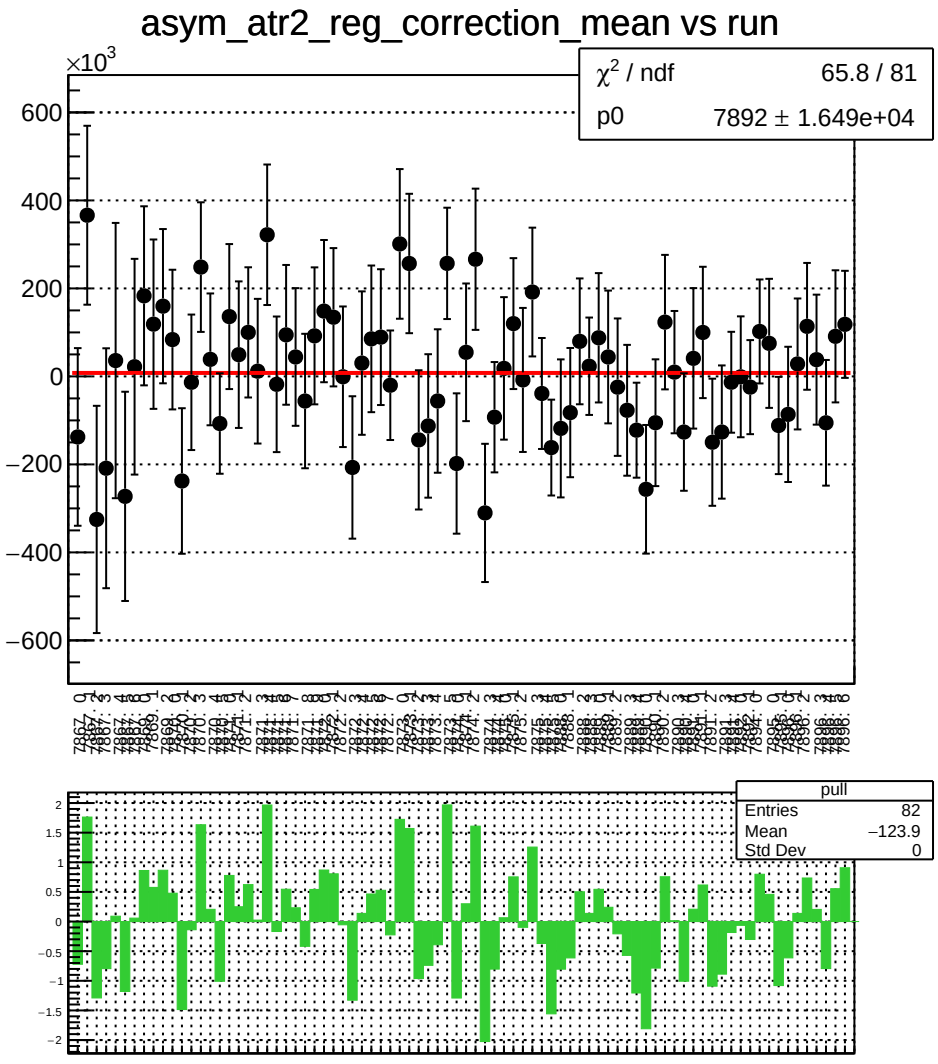

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 72.12 / 81
p0 1.536e−13 ± 1.183e−13
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 82
Mean 14.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1051
Std Dev 0.9319
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

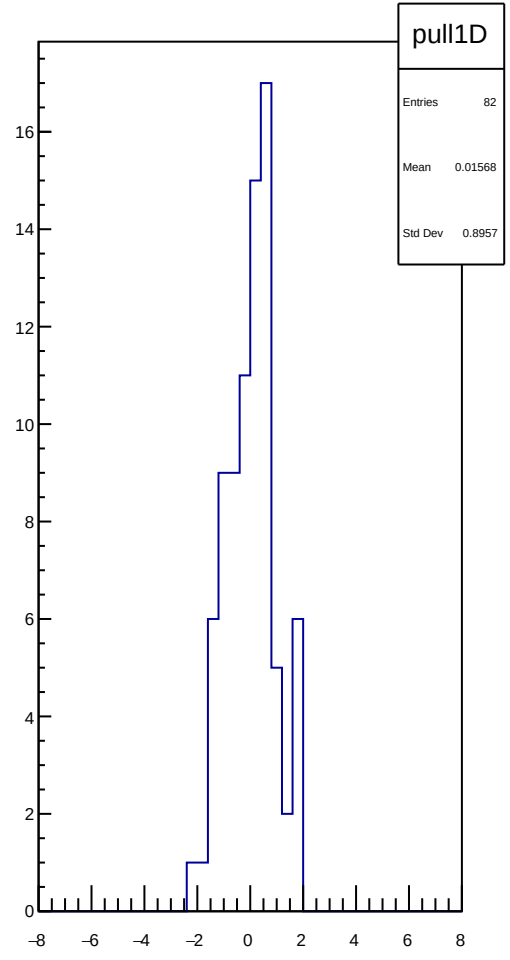

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.877e+05 / 81
p0 7.214e−11 ± 8.362e−14
4
3.5
3
2.5
2
1.5
1
0.5

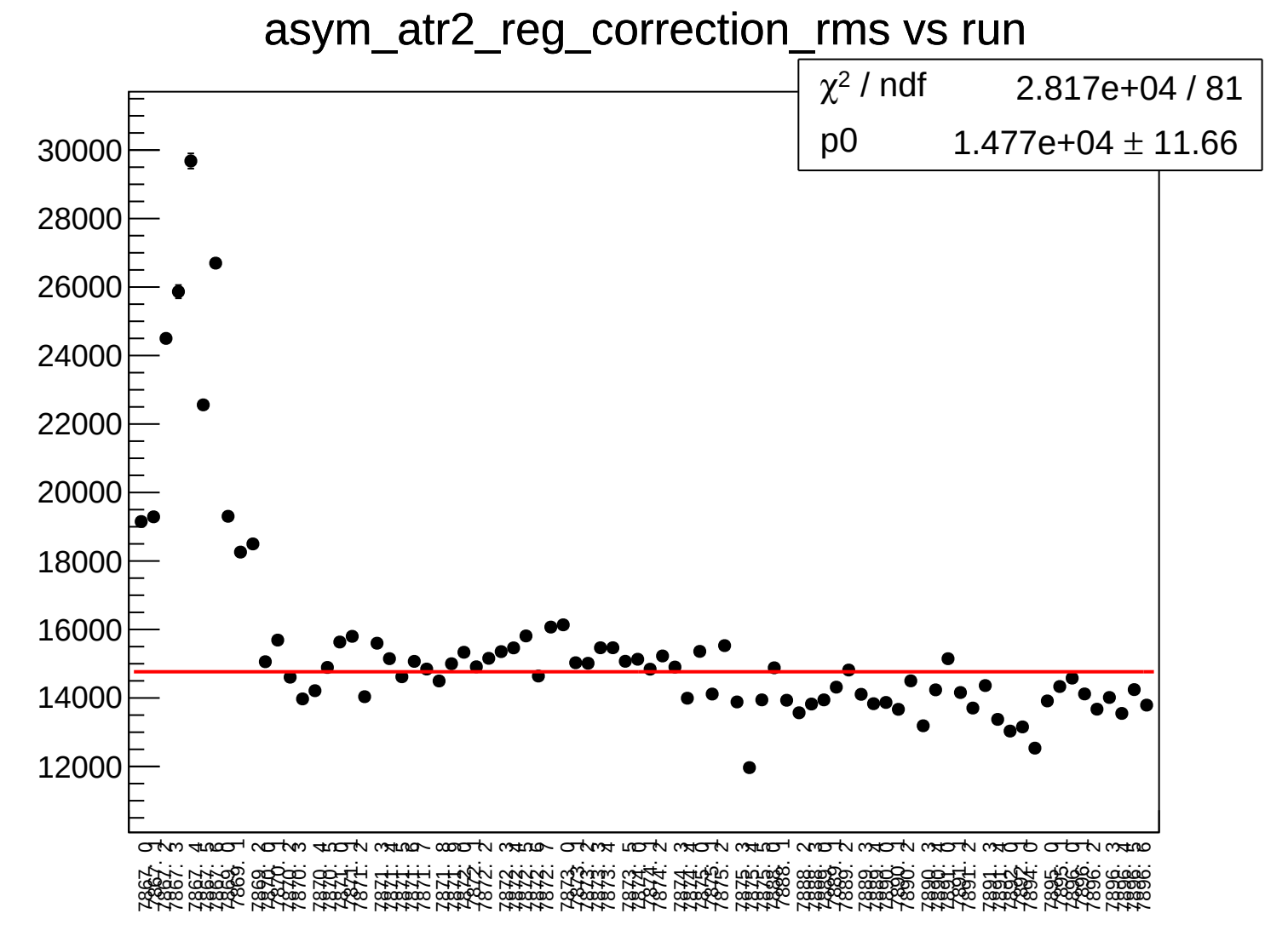

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 96.31 / 81
p0 1375 ± 3148
pull
Entries 82
Mean 762.7
Std Dev 0

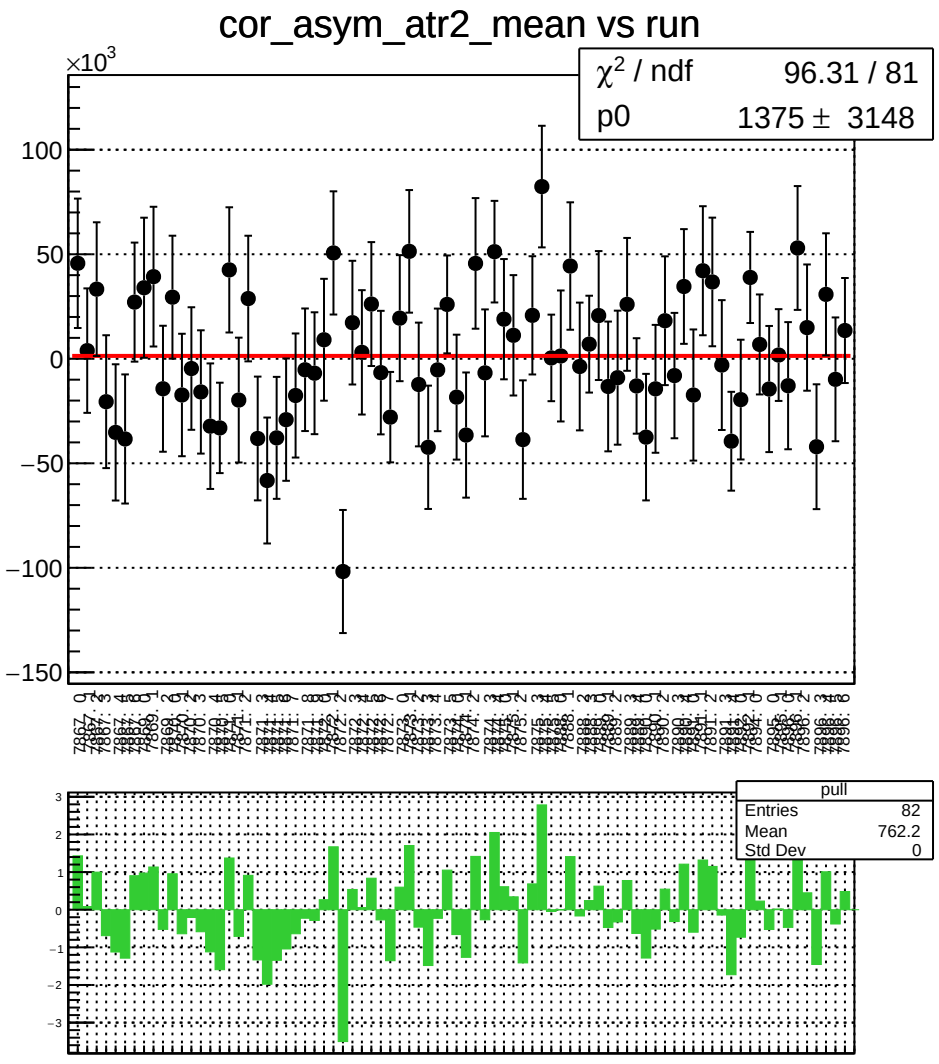

pull1D
Entries 82
Mean 0.003881
Std Dev 1.084

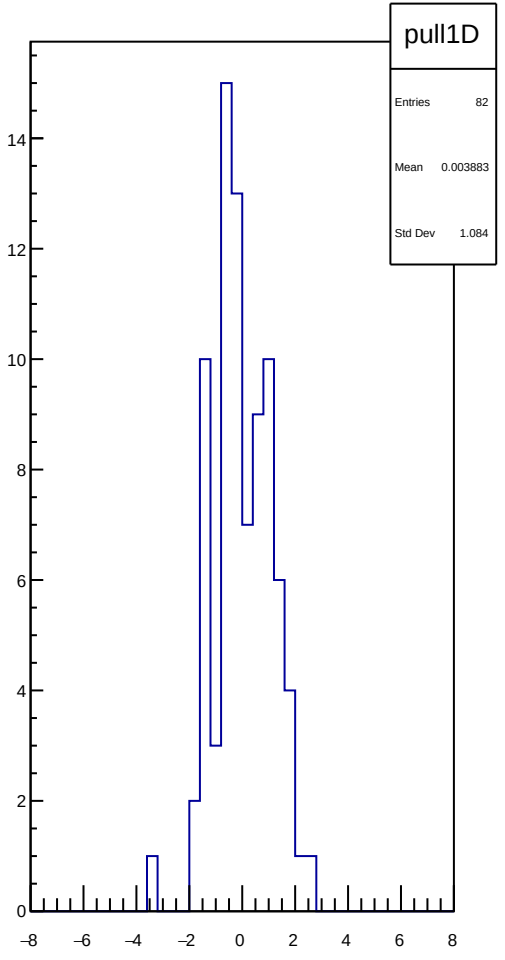

reg_asym_atr2_rms vs run
χ² / ndf 2611 / 81
p0 2842 ± 2.226
3200
3100
3000
2900
2800
2700
2600
2500

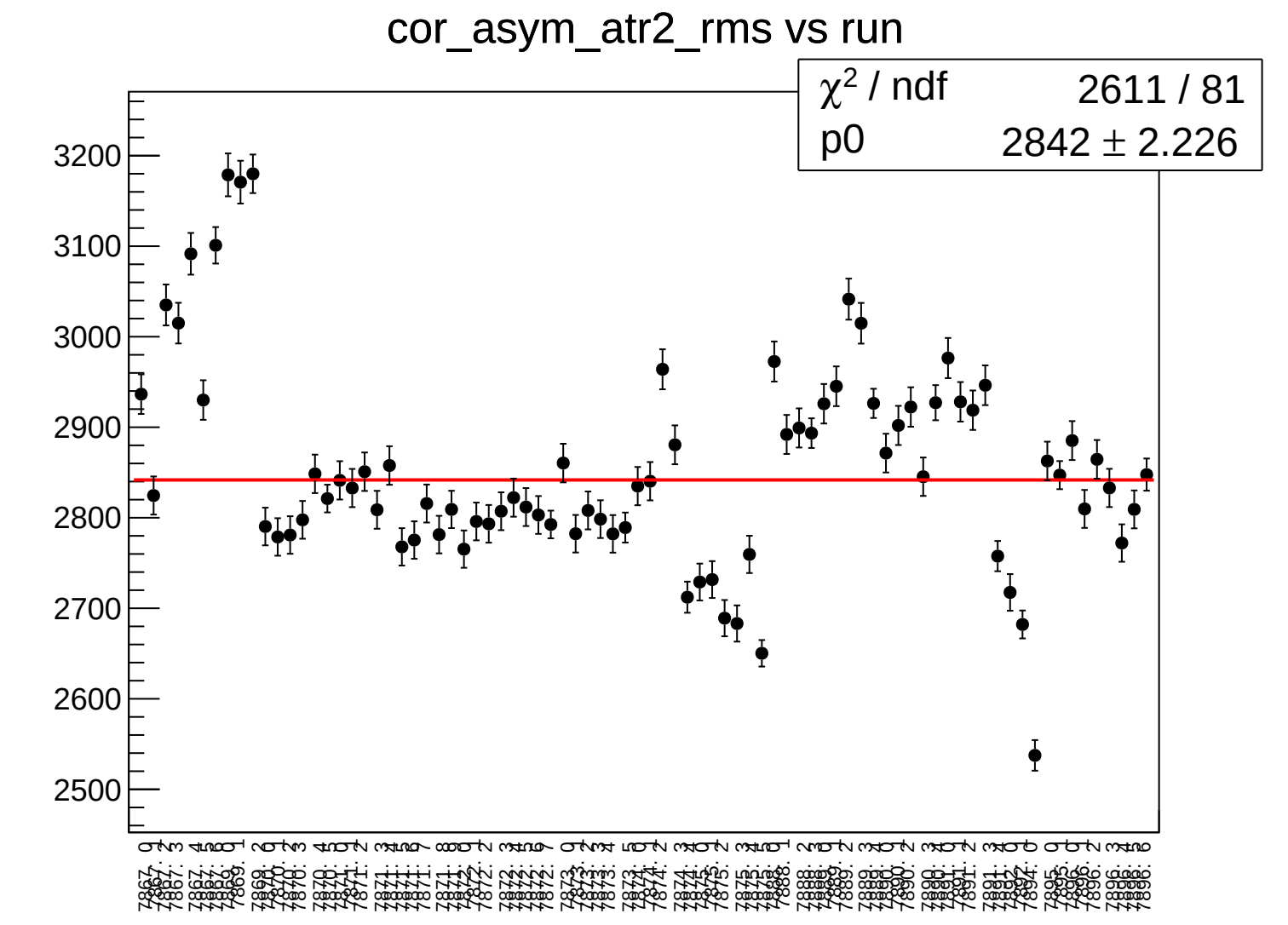

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 65.8 / 81
p0 7892 ± 1.649e+04
pull
Entries 82
Mean −123.9
Std Dev 0

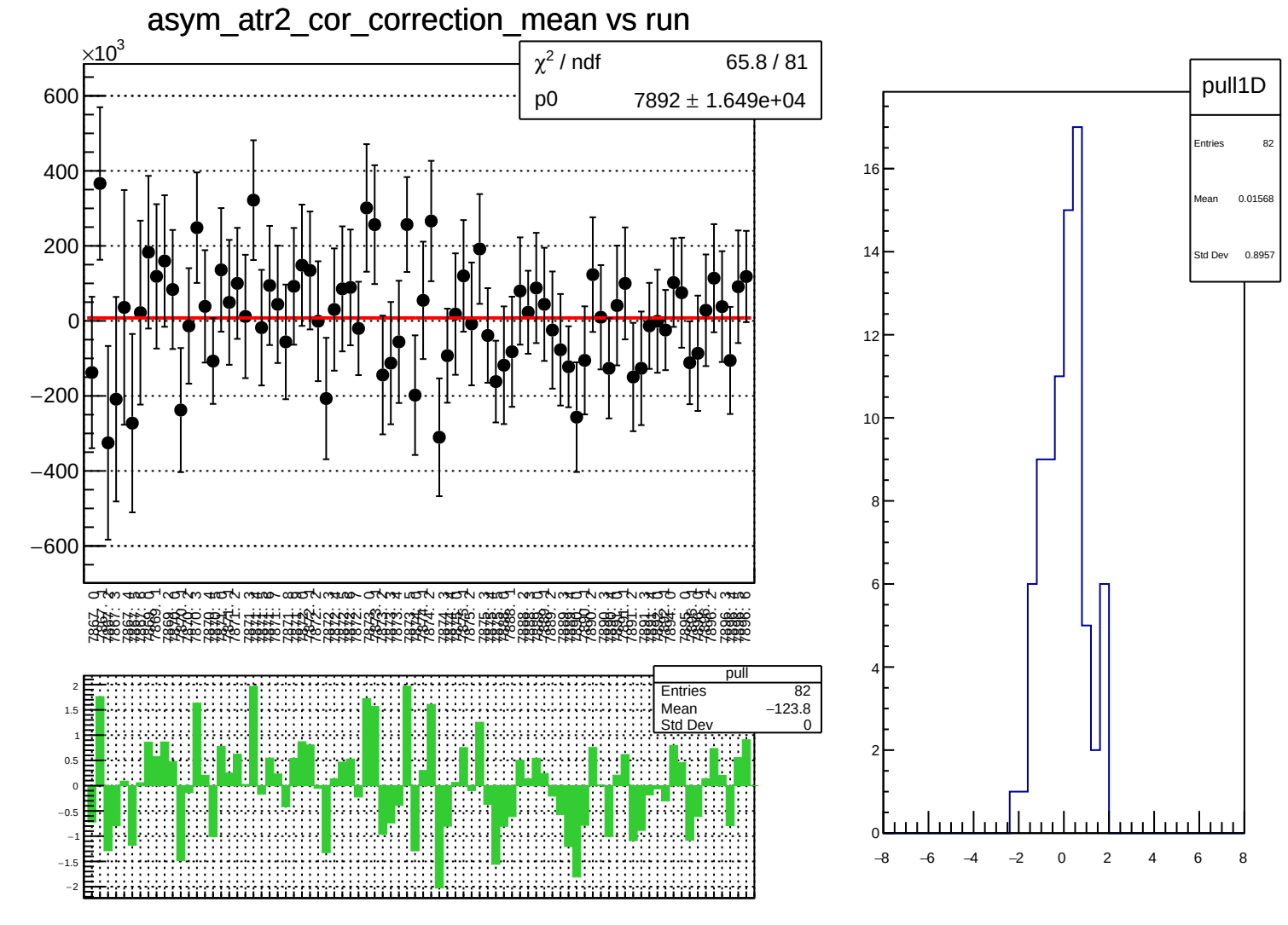

pull1D
Entries 82
Mean 0.01568
Std Dev 0.8957

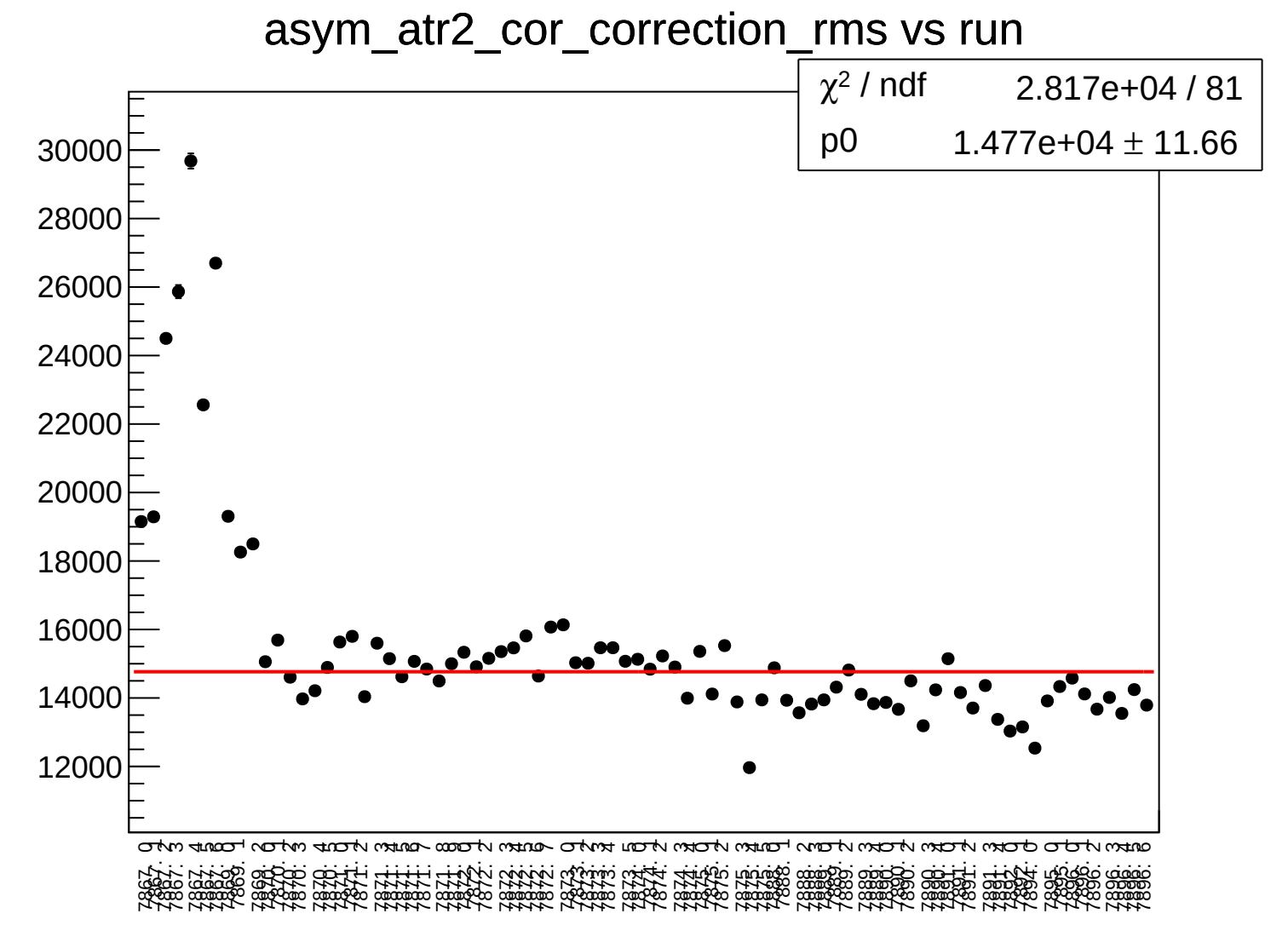

asym_atr2_reg_correction_rms vs run
χ² / ndf 2.817e+04 / 81
p0 1.477e+04 ± 11.66
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000

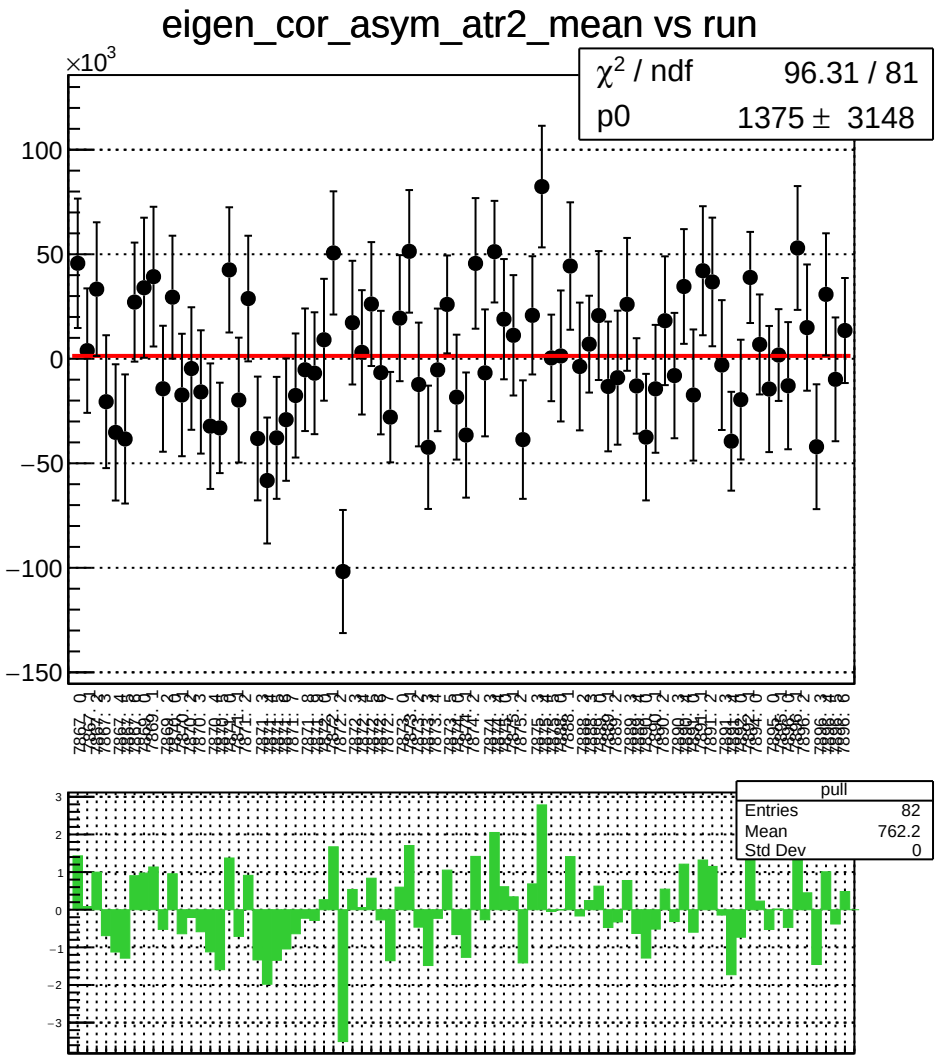

cor_asym_atr2_mean vs run
χ² / ndf 96.31 / 81
p0 1375 ± 3148
×10³
pull
Entries 82
Mean 762.2
Std Dev 0

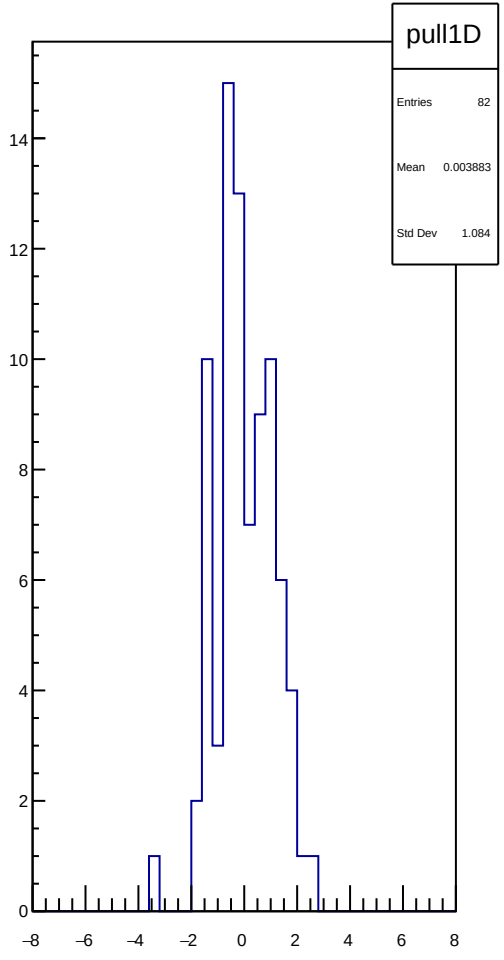

pull1D
Entries 82
Mean 0.003883
Std Dev 1.084

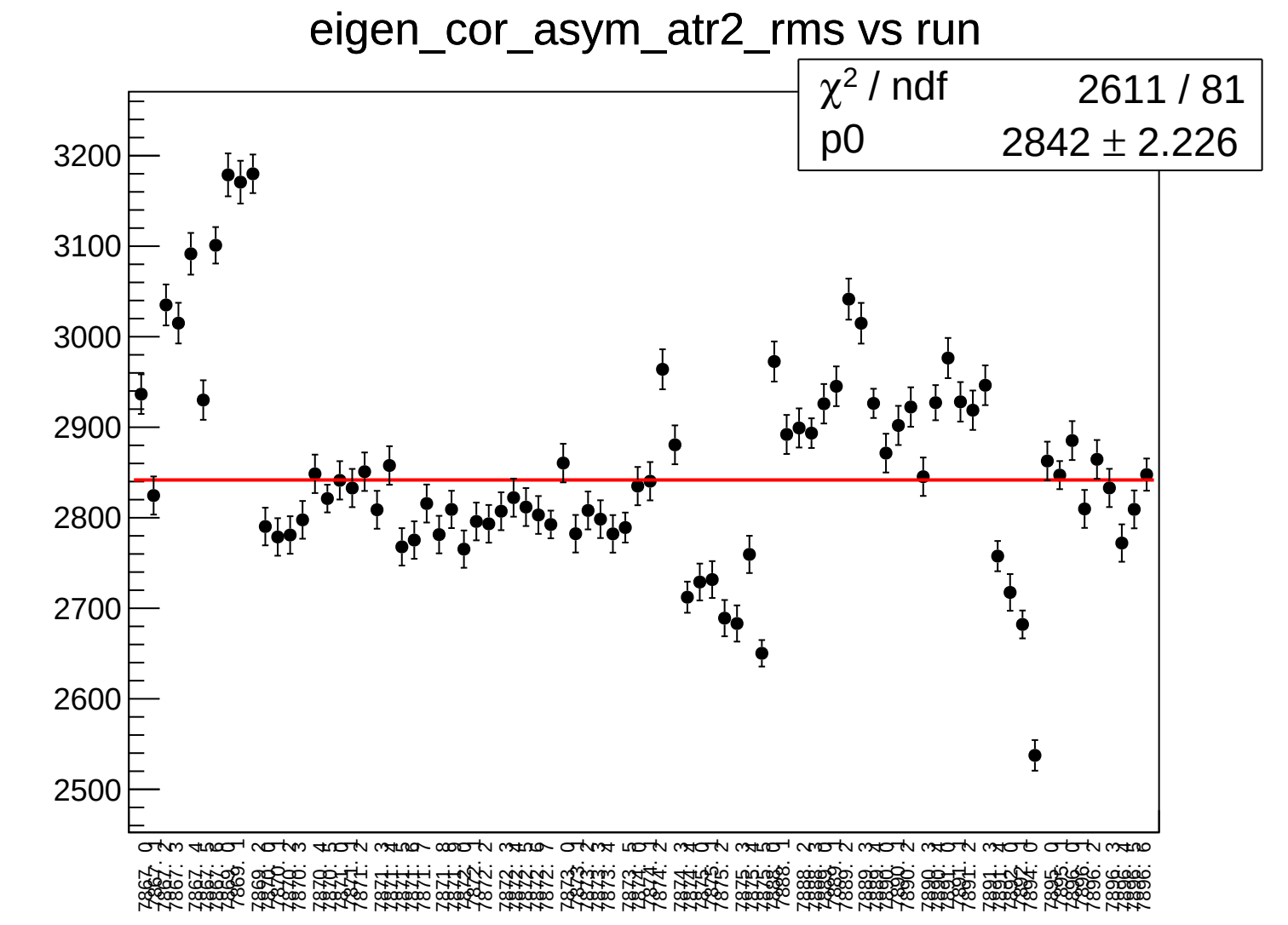

cor_asym_atr2_rms vs run
χ² / ndf 2611 / 81
p0 2842 ± 2.226
3200
3100
3000
2900
2800
2700
2600
2500

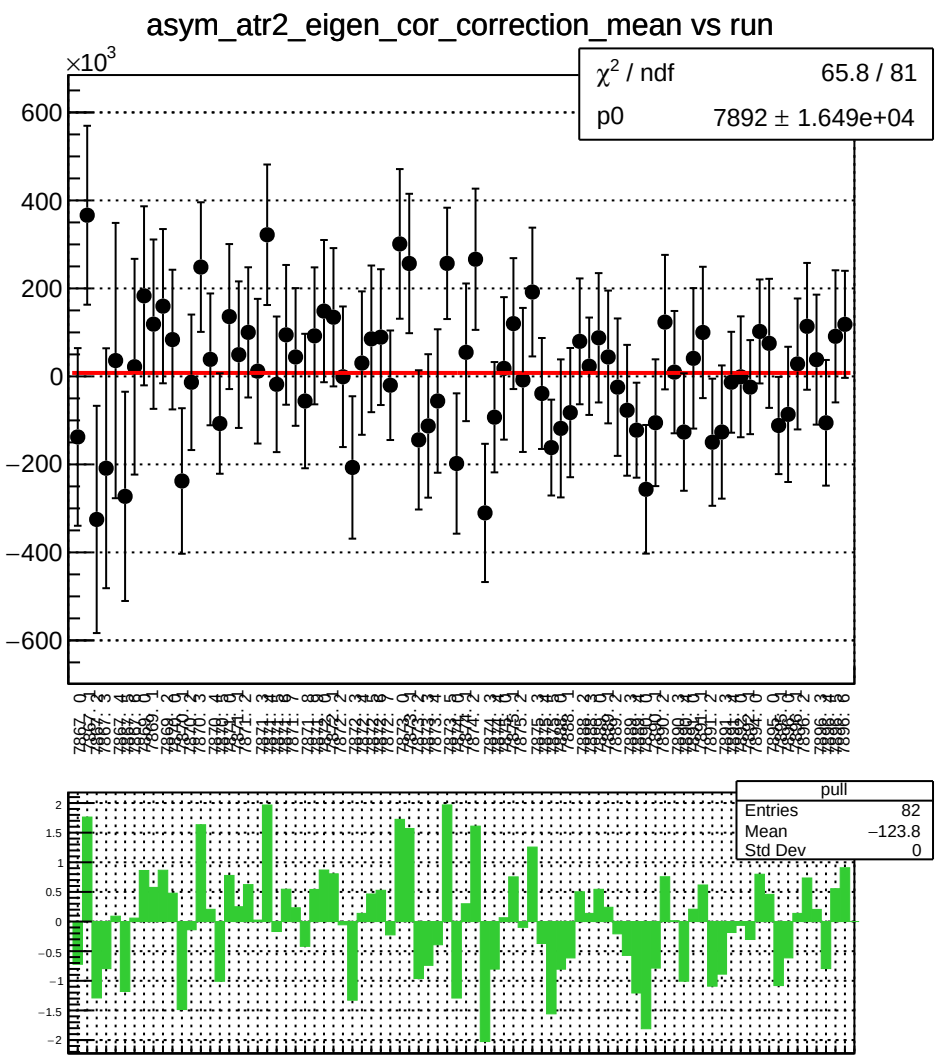

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 65.8 / 81
p0 7892 ± 1.649e+04
pull
Entries 82
Mean −123.8
Std Dev 0
pull1D
Entries 82
Mean 0.01568
Std Dev 0.8957

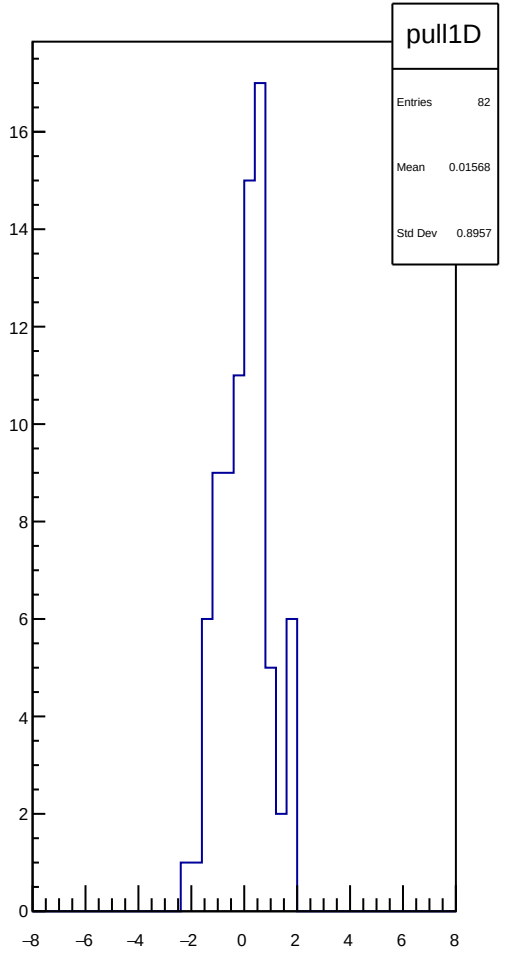

asym_atr2_cor_correction_rms vs run
χ² / ndf 2.817e+04 / 81
p0 1.477e+04 ± 11.66
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000

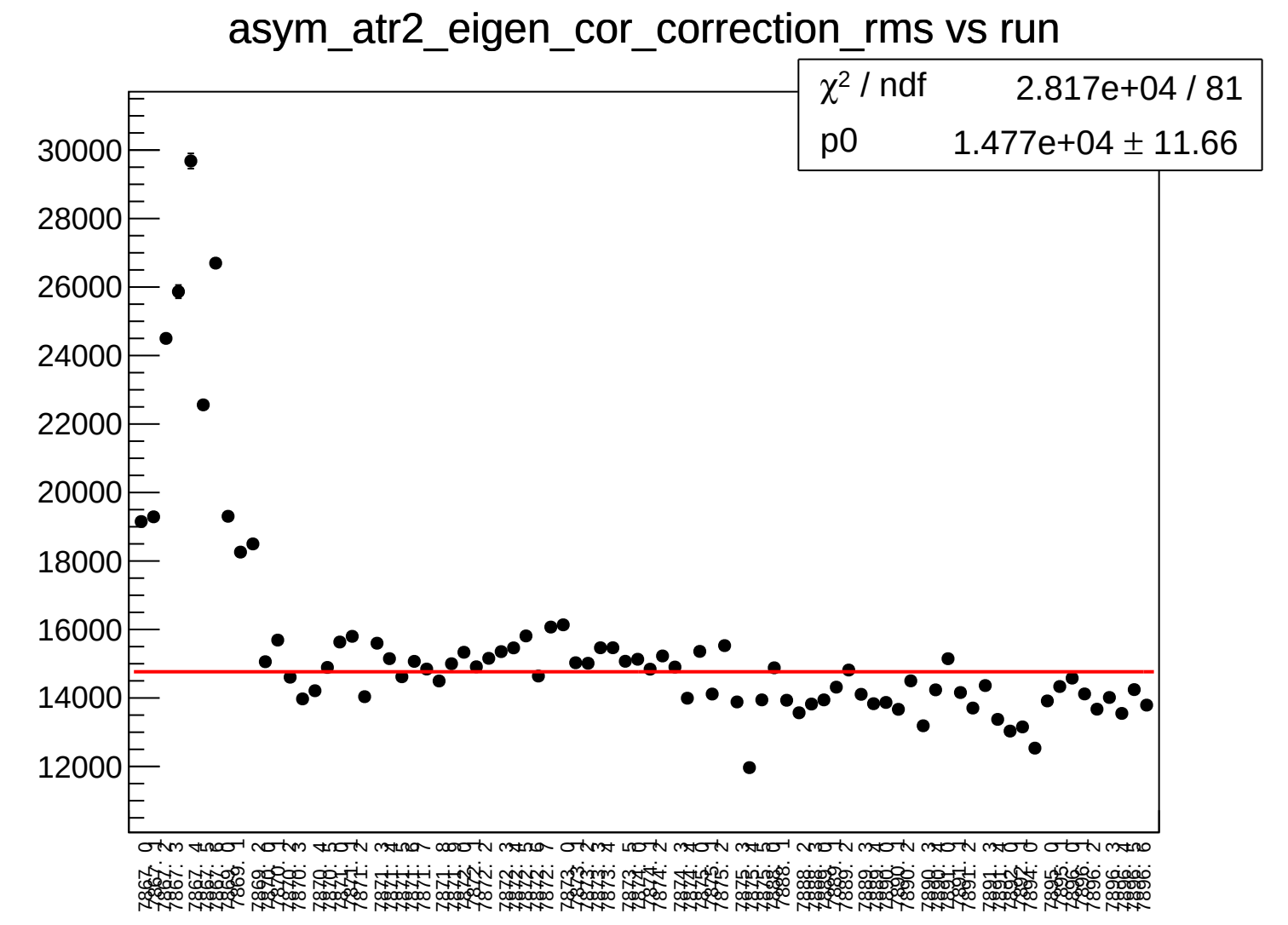

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 96.31 / 81
p0 1375 ± 3148
100
50
0
−50
−100
−150
pull
Entries 82
Mean 762.2
Std Dev 0
3
2
1
0
−1
−2
−3

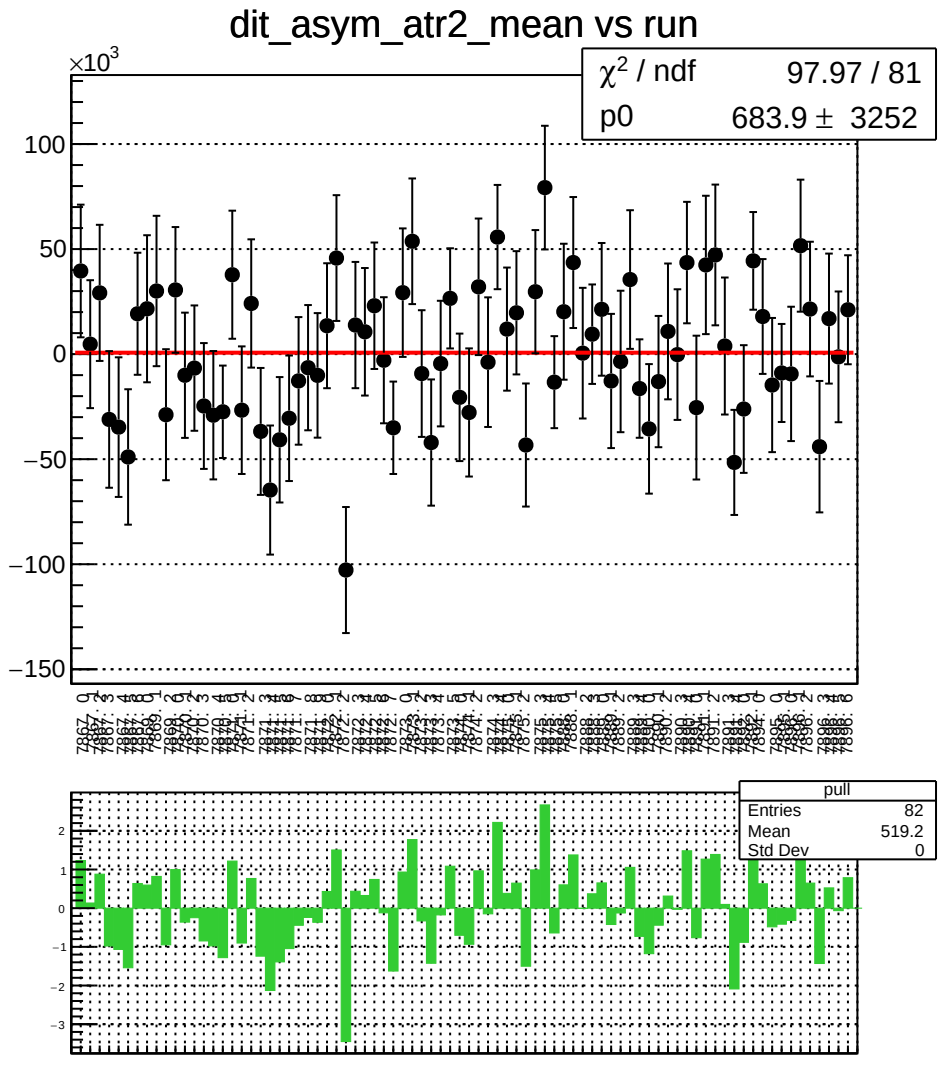

pull1D
Entries 82
Mean 0.003883
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

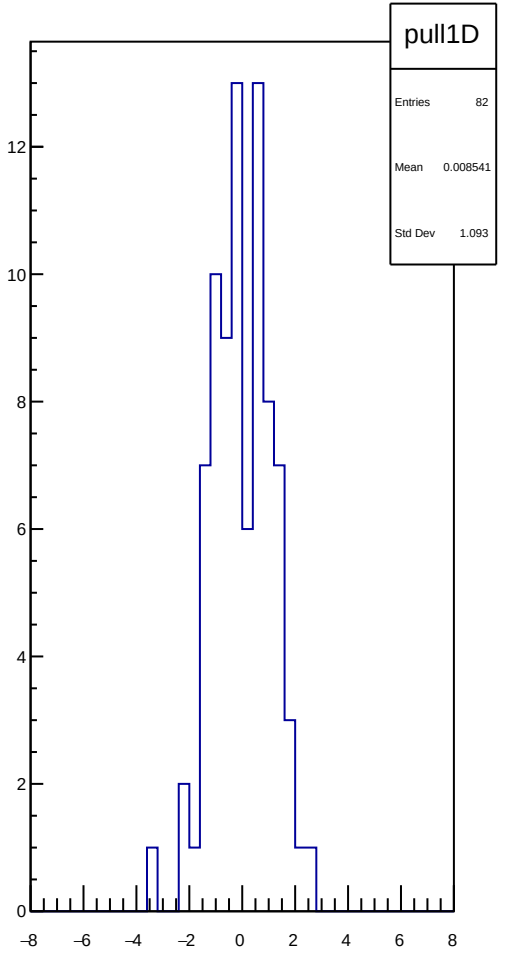

eigen_cor_asym_atr2_rms vs run
χ² / ndf 2611 / 81
p0 2842 ± 2.226
3200
3100
3000
2900
2800
2700
2600
2500

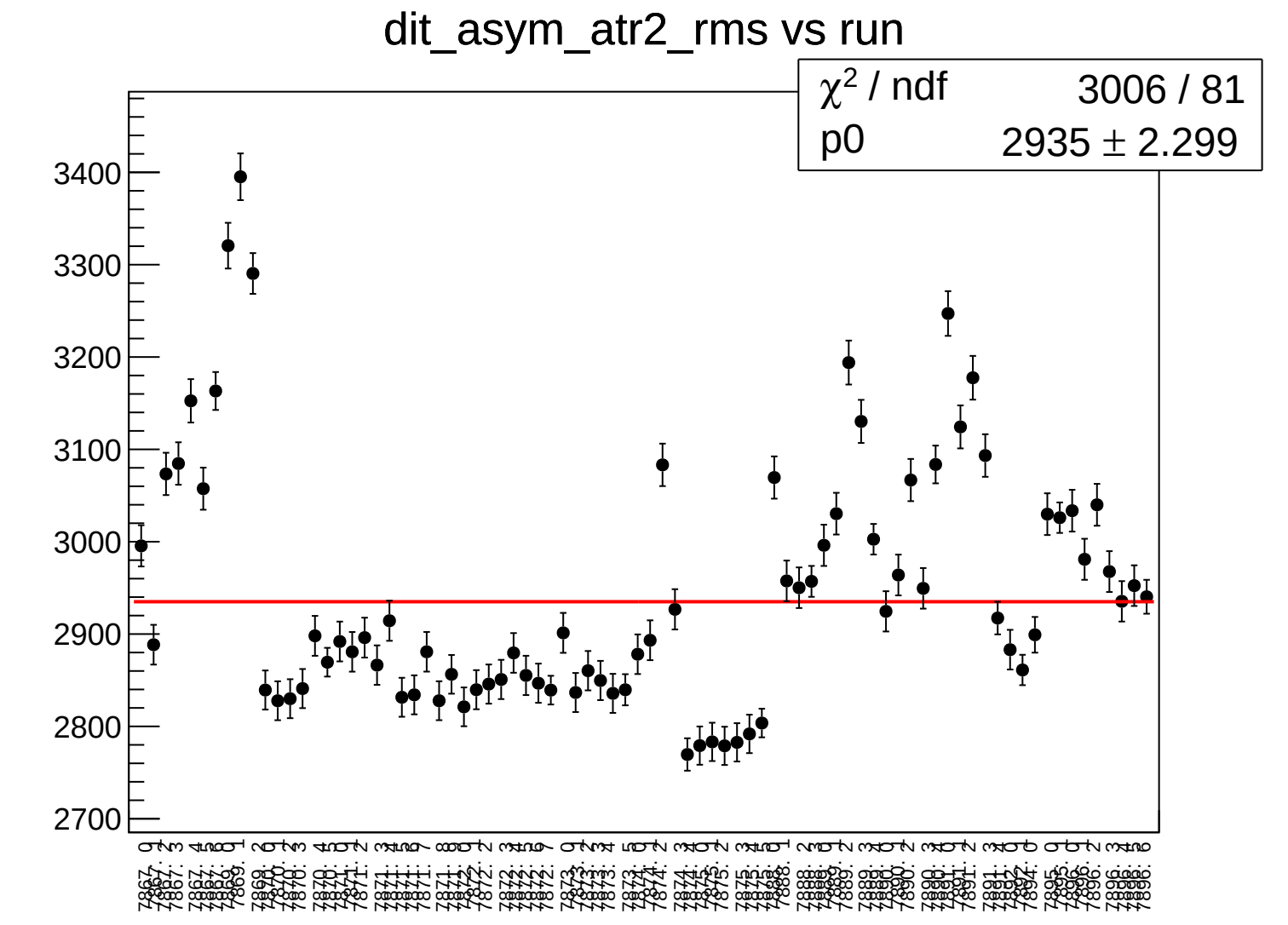

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.8 / 81
p0 7892 ± 1.649e+04
pull
Entries 82
Mean −123.8
Std Dev 0

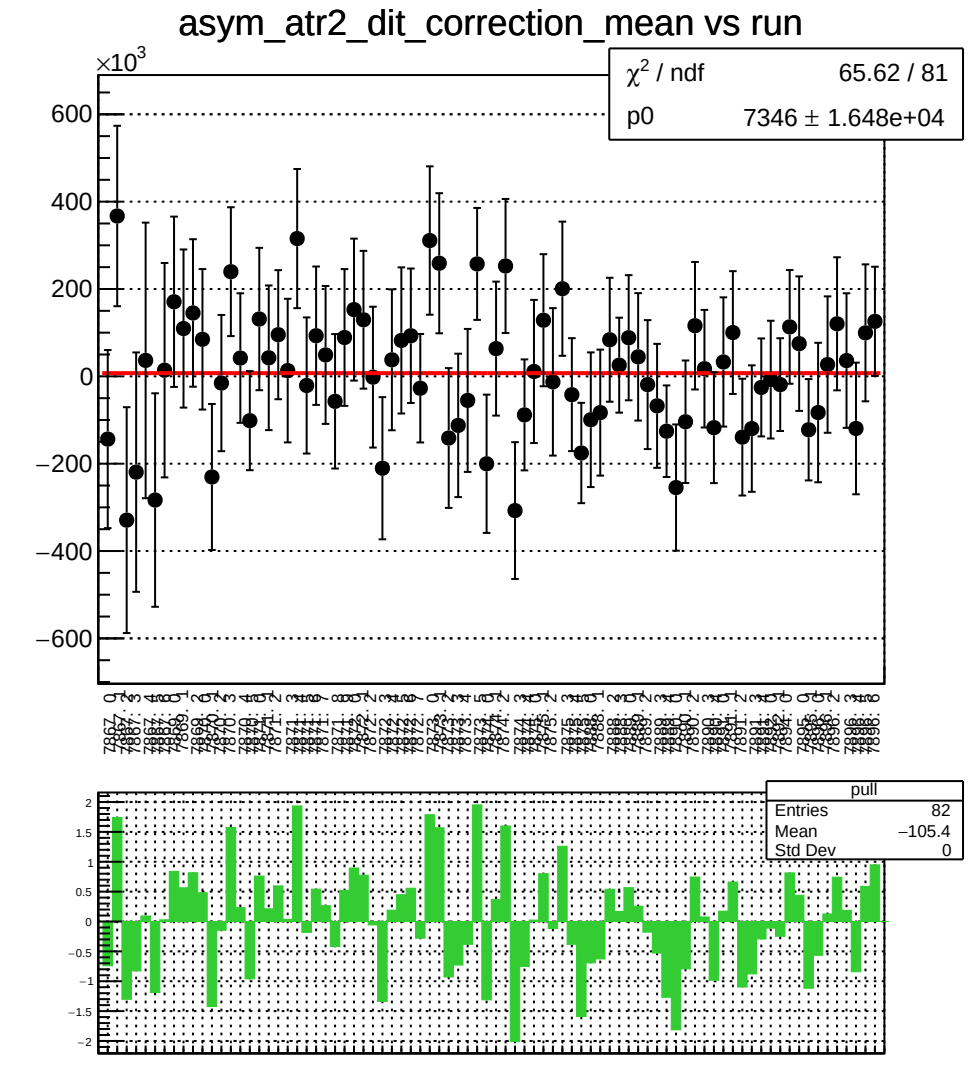

pull1D
Entries 82
Mean 0.01568
Std Dev 0.8957

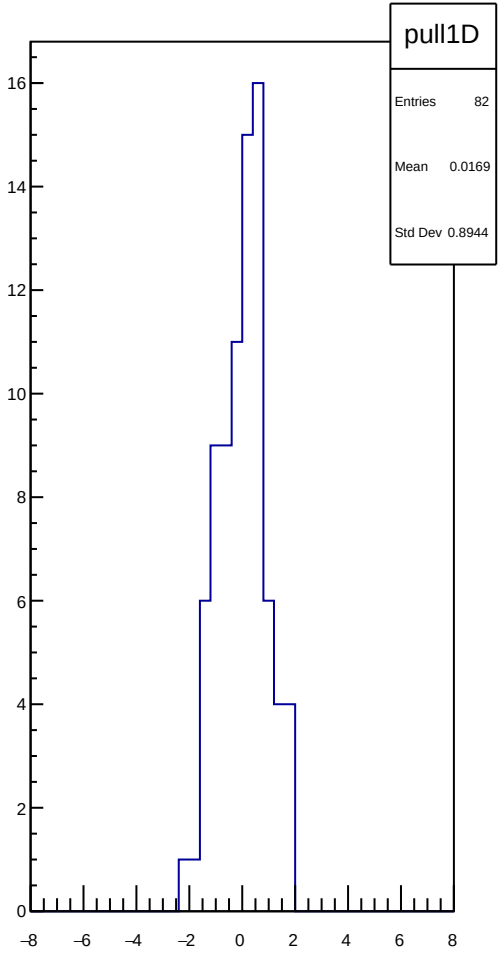

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2.817e+04 / 81
p0 1.477e+04 ± 11.66
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000

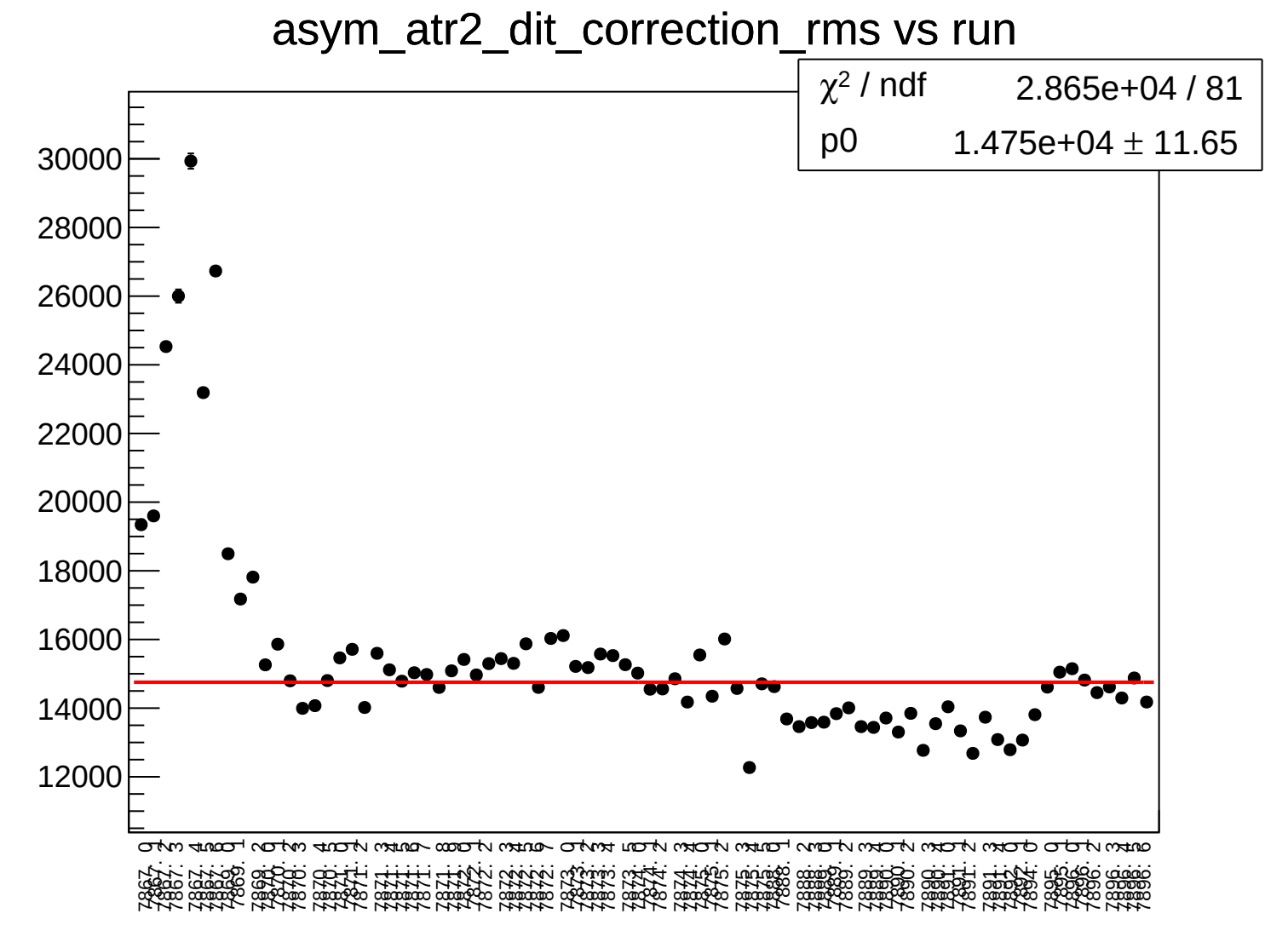

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 97.97 / 81
p0 683.9 ± 3252
100
50
0
−50
−100
−150
pull
Entries 82
Mean 519.2
Std Dev 0
2
1
0
−1
−2
−3

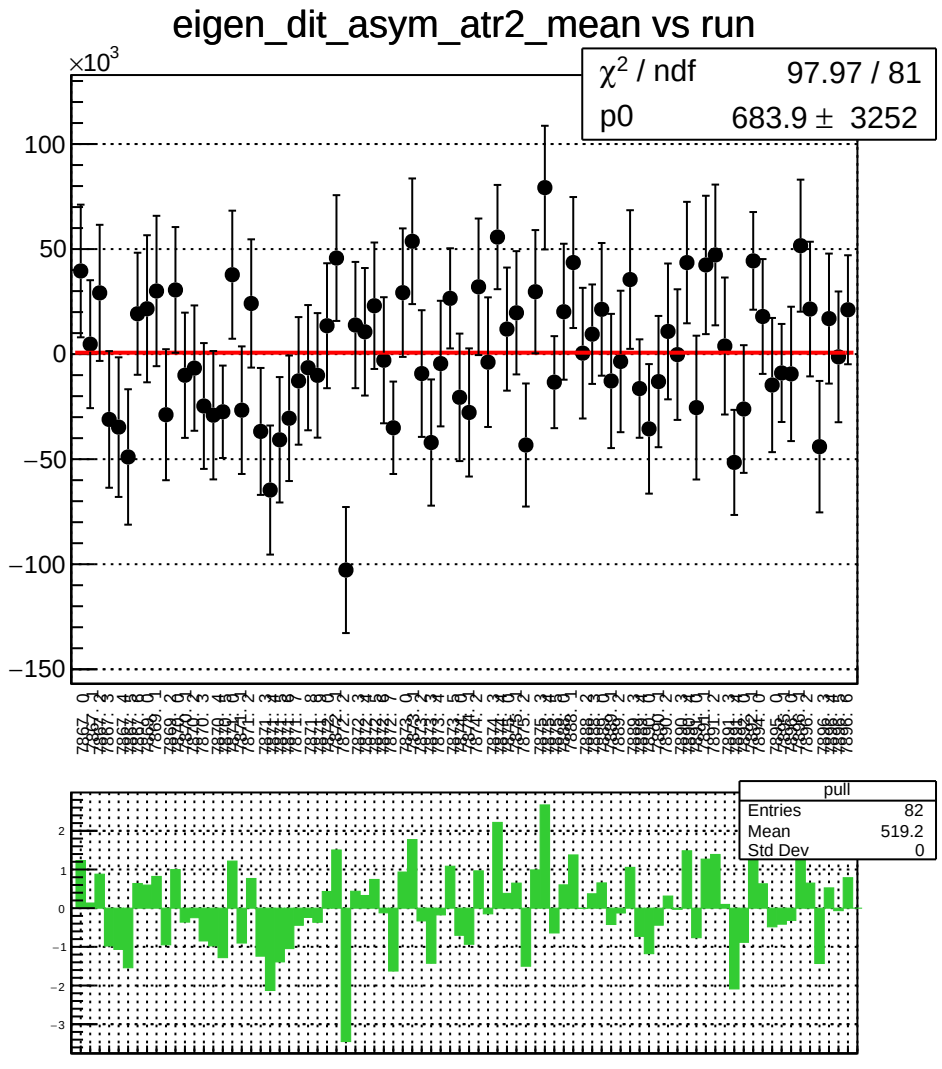

pull1D
Entries 82
Mean 0.008541
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

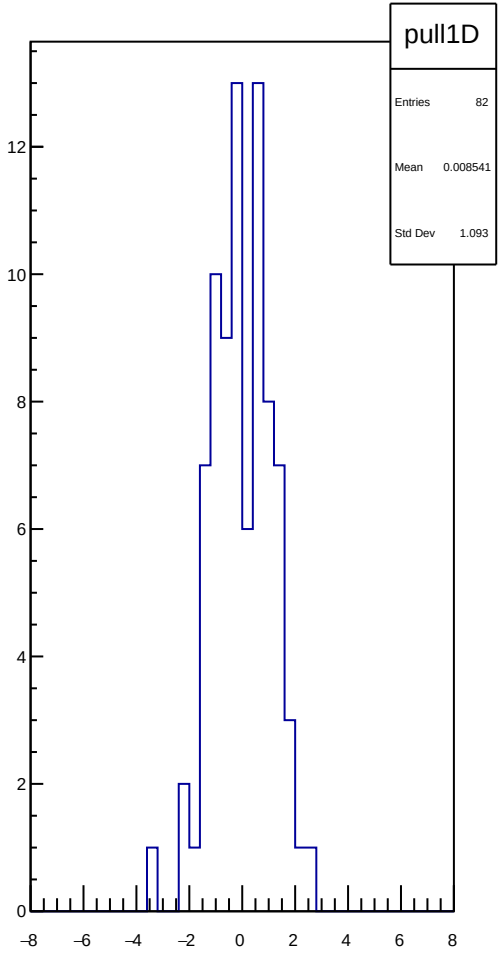

dit_asym_atr2_rms vs run
χ² / ndf 3006 / 81
p0 2935 ± 2.299
3400
3300
3200
3100
3000
2900
2800
2700

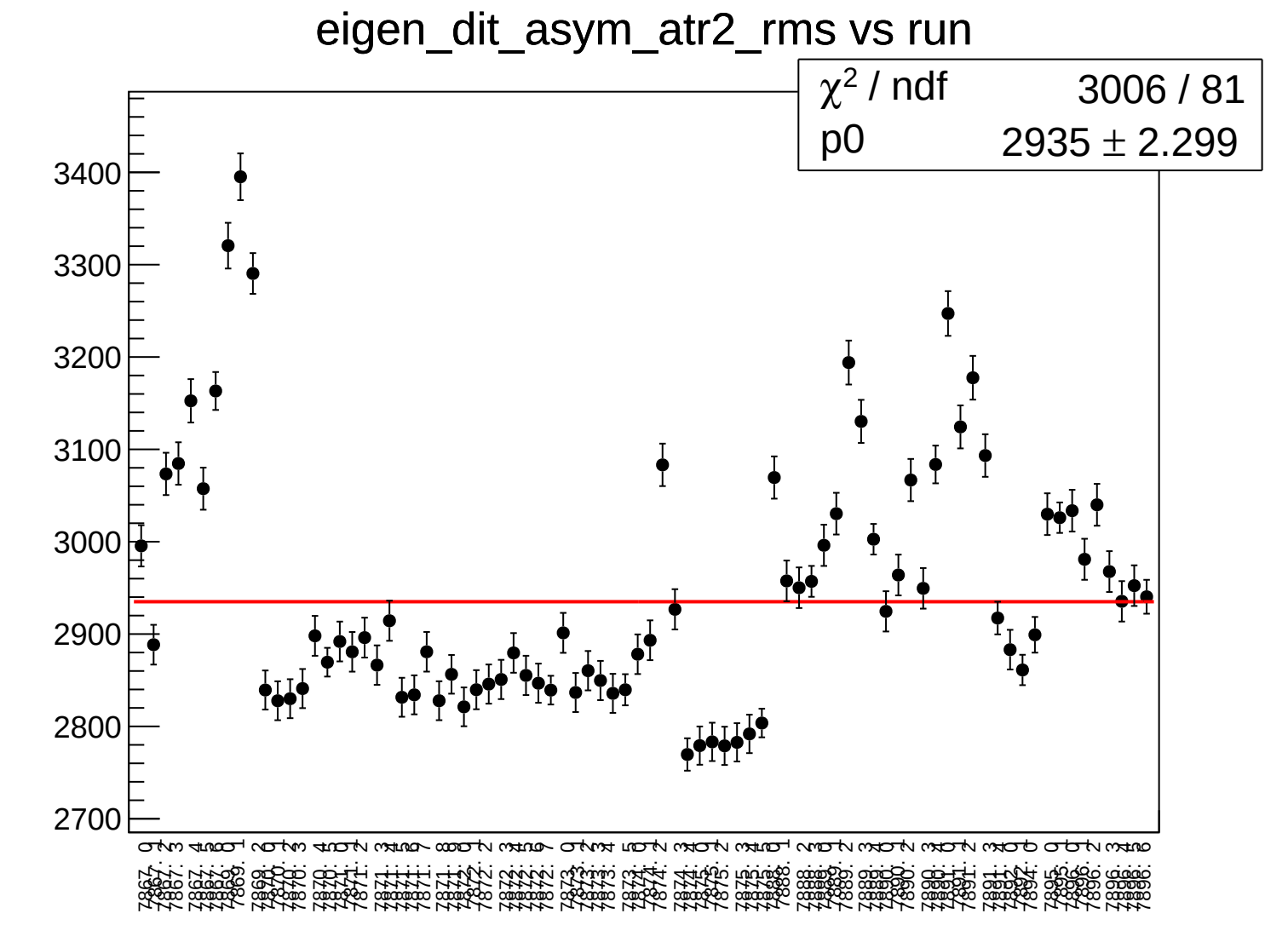

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 65.62 / 81
p0 7346 ± 1.648e+04
pull
Entries 82
Mean −105.4
Std Dev 0

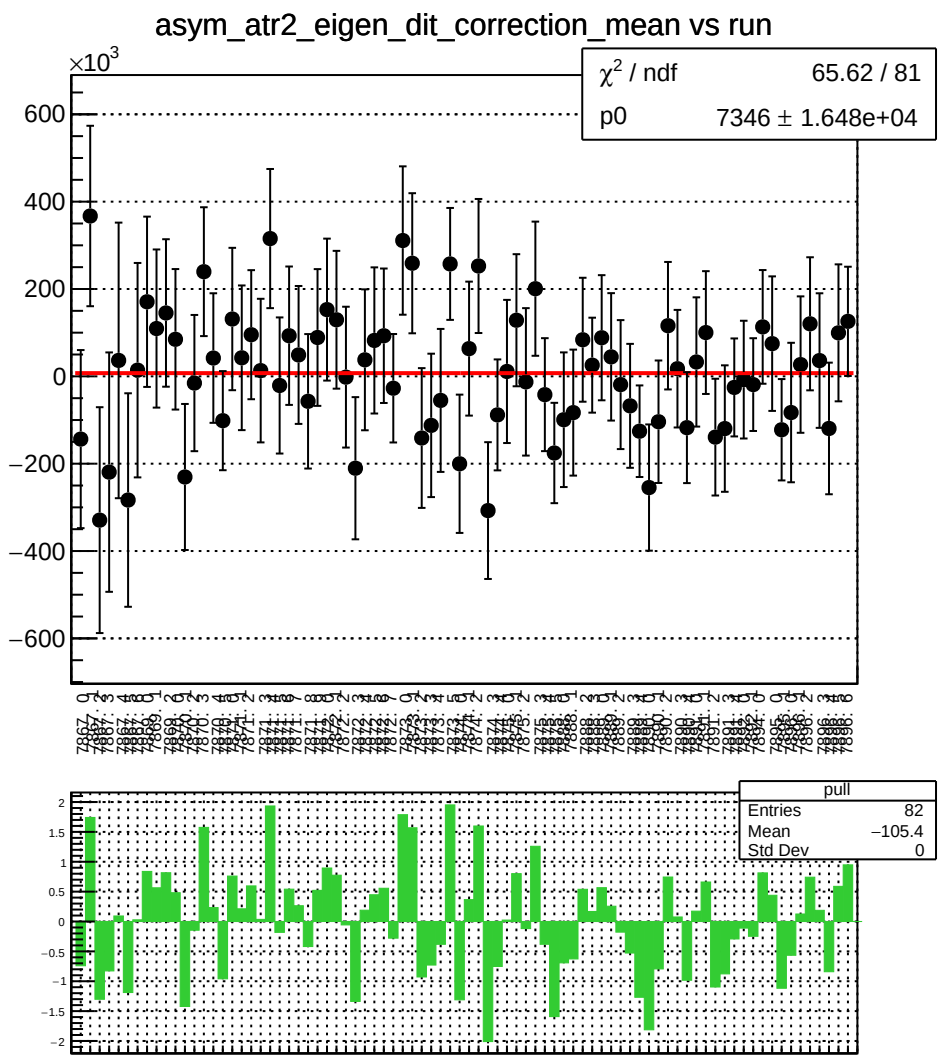

pull1D
Entries 82
Mean 0.0169
Std Dev 0.8944

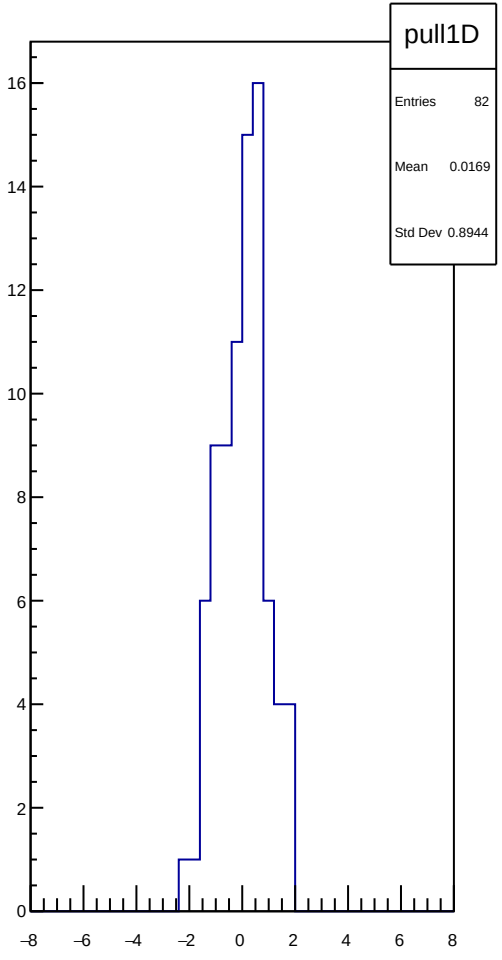

asym_atr2_dit_correction_rms vs run
χ² / ndf 2.865e+04 / 81
p0 1.475e+04 ± 11.65
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000

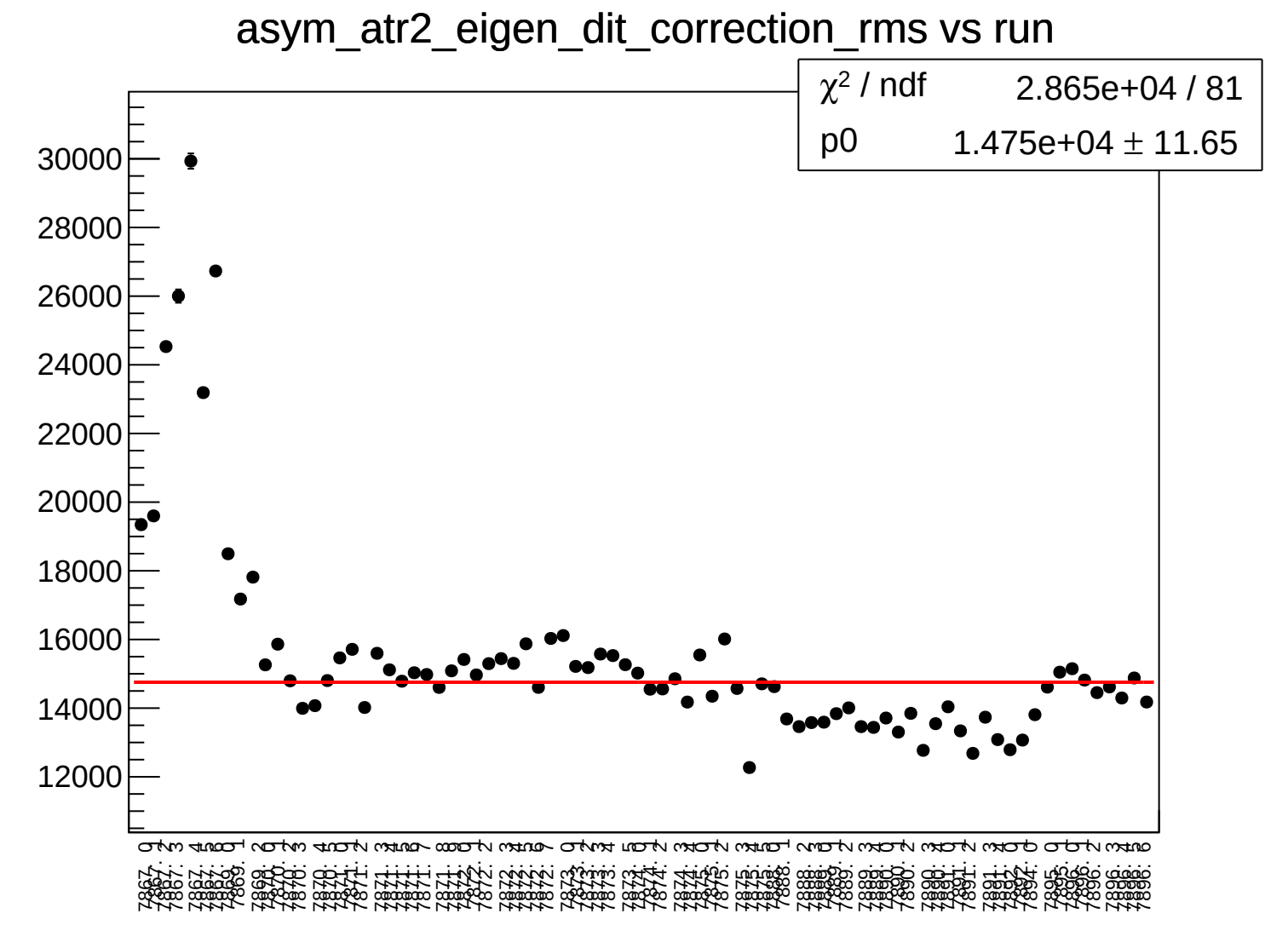

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 97.97 / 81
p0 683.9 ± 3252
100
50
0
−50
−100
−150
pull
Entries 82
Mean 519.2
Std Dev 0
2
1
0
−1
−2
−3

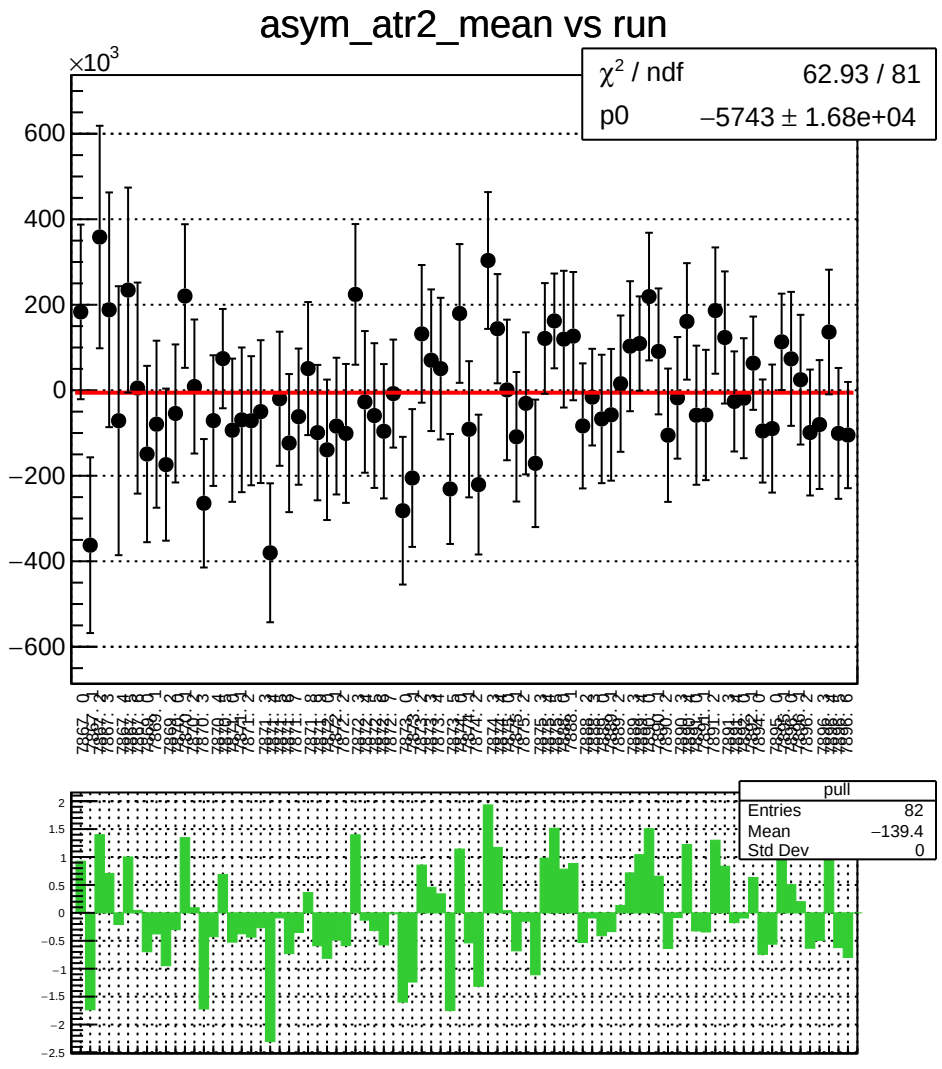

pull1D
Entries 82
Mean 0.008541
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

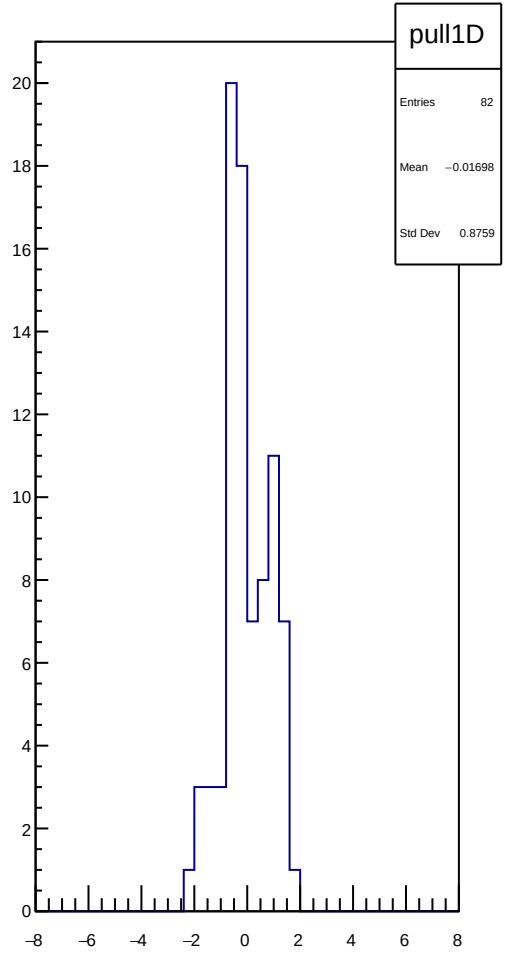

eigen_dit_asym_atr2_rms vs run
χ² / ndf 3006 / 81
p0 2935 ± 2.299
3400
3300
3200
3100
3000
2900
2800
2700

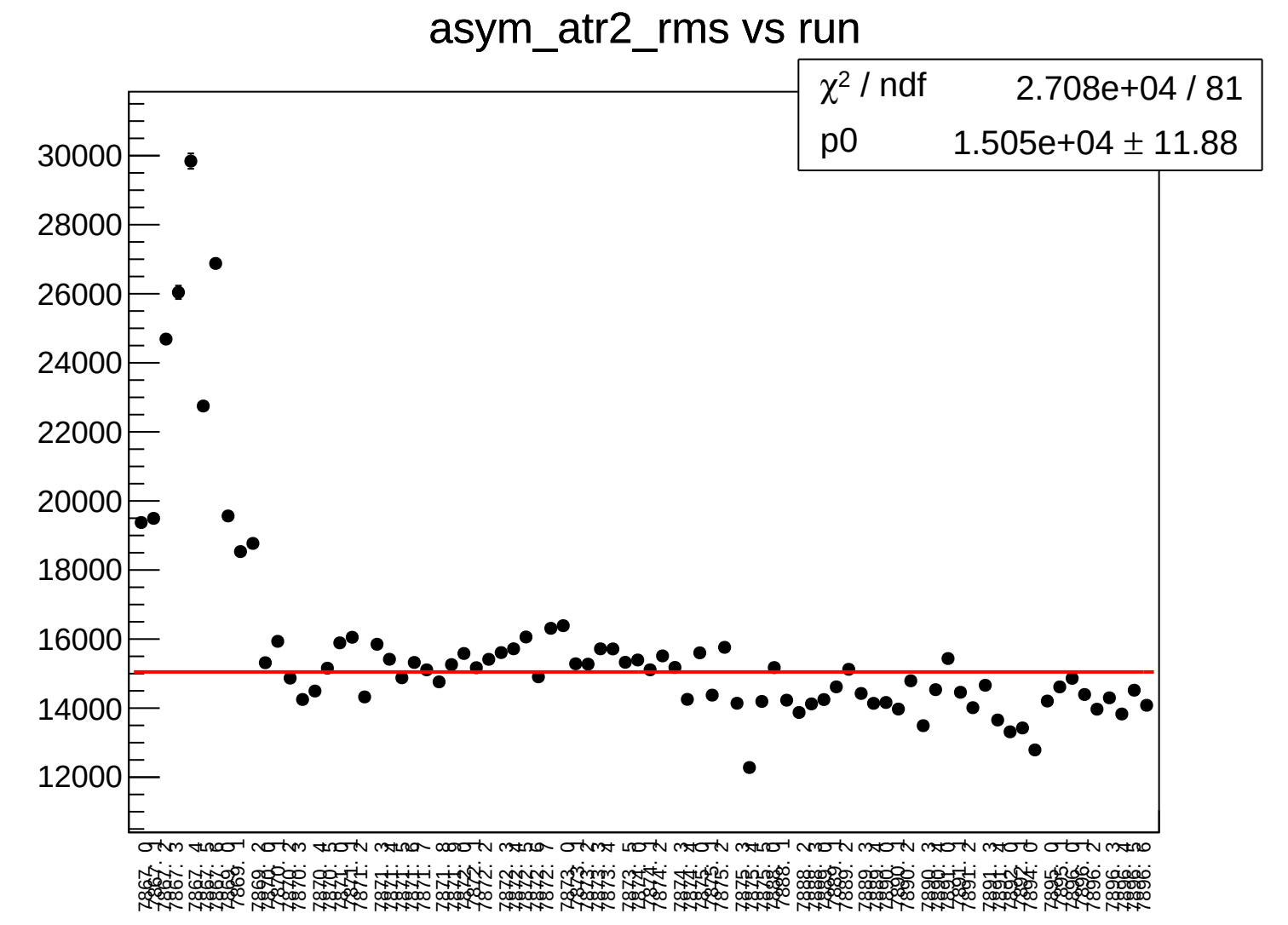

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.62 / 81
p0 7346 ± 1.648e+04
pull
Entries 82
Mean −105.4
Std Dev 0

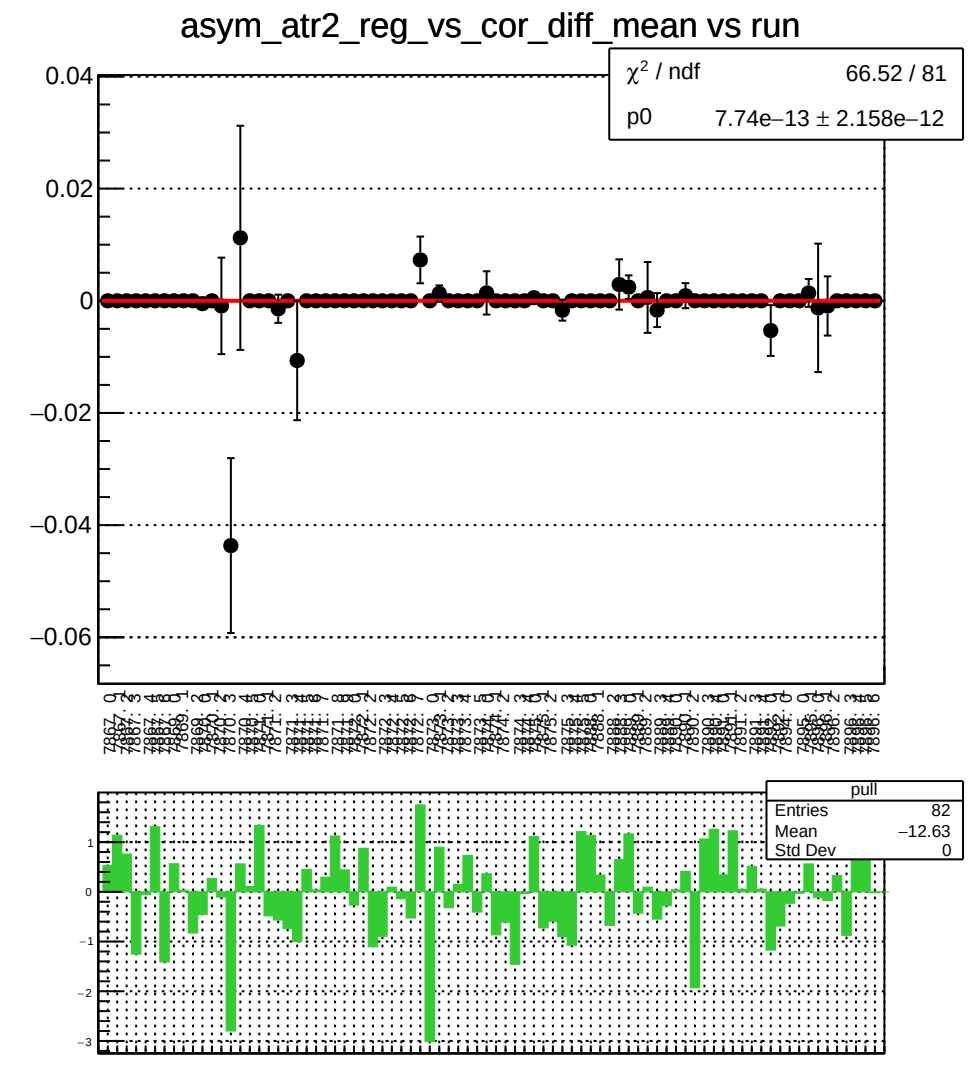

pull1D
Entries 82
Mean 0.0169
Std Dev 0.8944

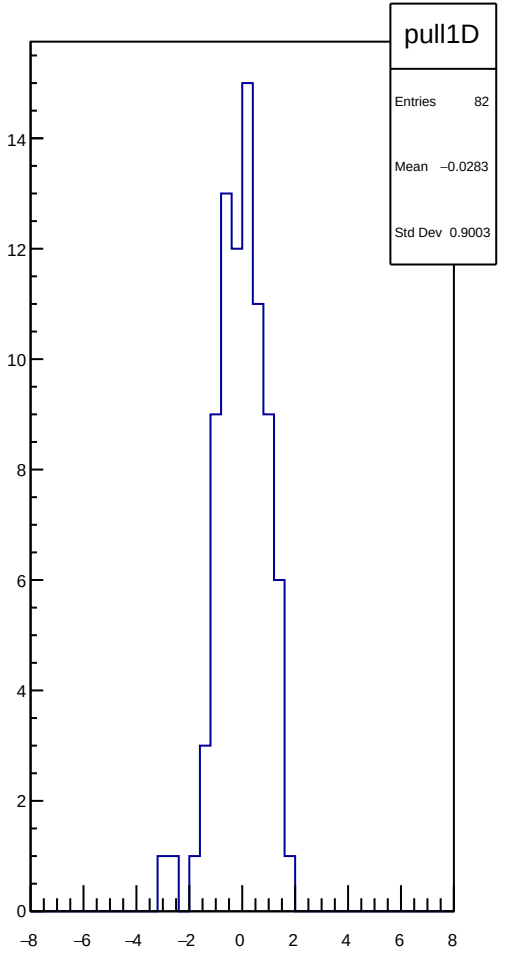

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2.865e+04 / 81
p0 1.475e+04 ± 11.65
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000

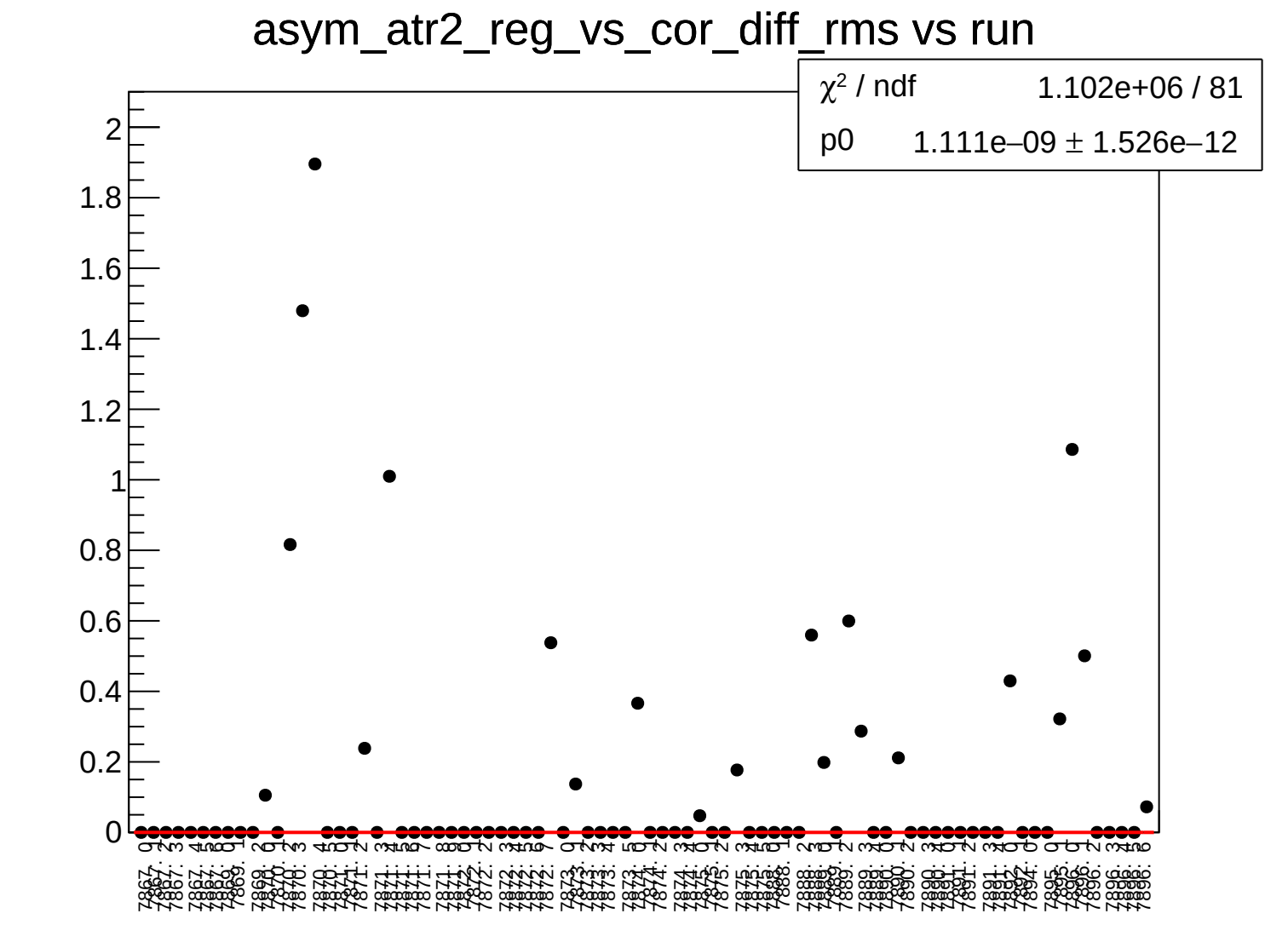

asym_atr2_mean vs run
×10^3
χ² / ndf 62.93 / 81
p0 −5743 ± 1.68e+04
pull
Entries 82
Mean −139.4
Std Dev 0

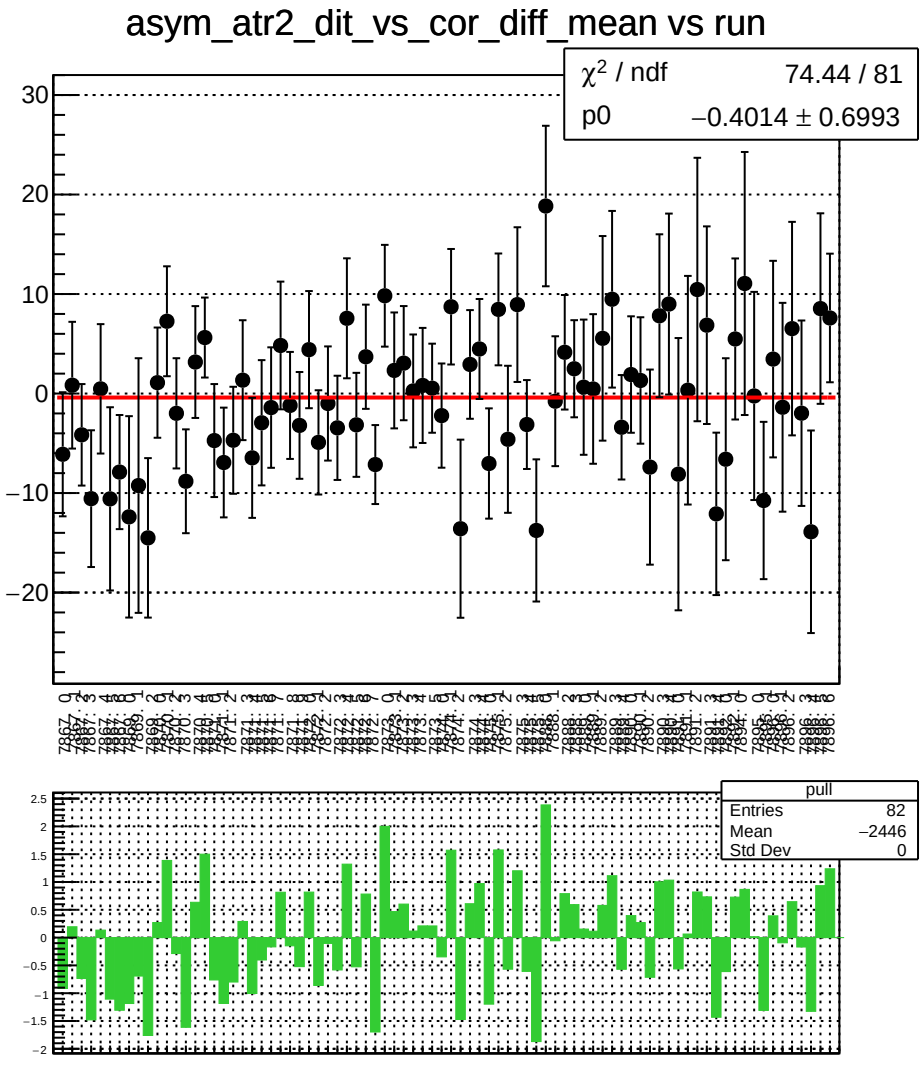

pull1D
Entries 82
Mean −0.01698
Std Dev 0.8759

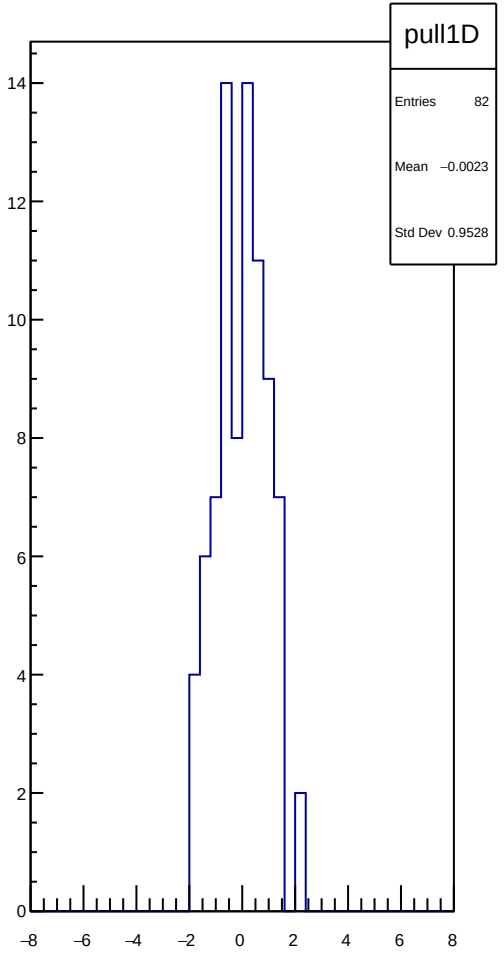

asym_atr2_rms vs run
χ² / ndf 2.708e+04 / 81
p0 1.505e+04 ± 11.88
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000

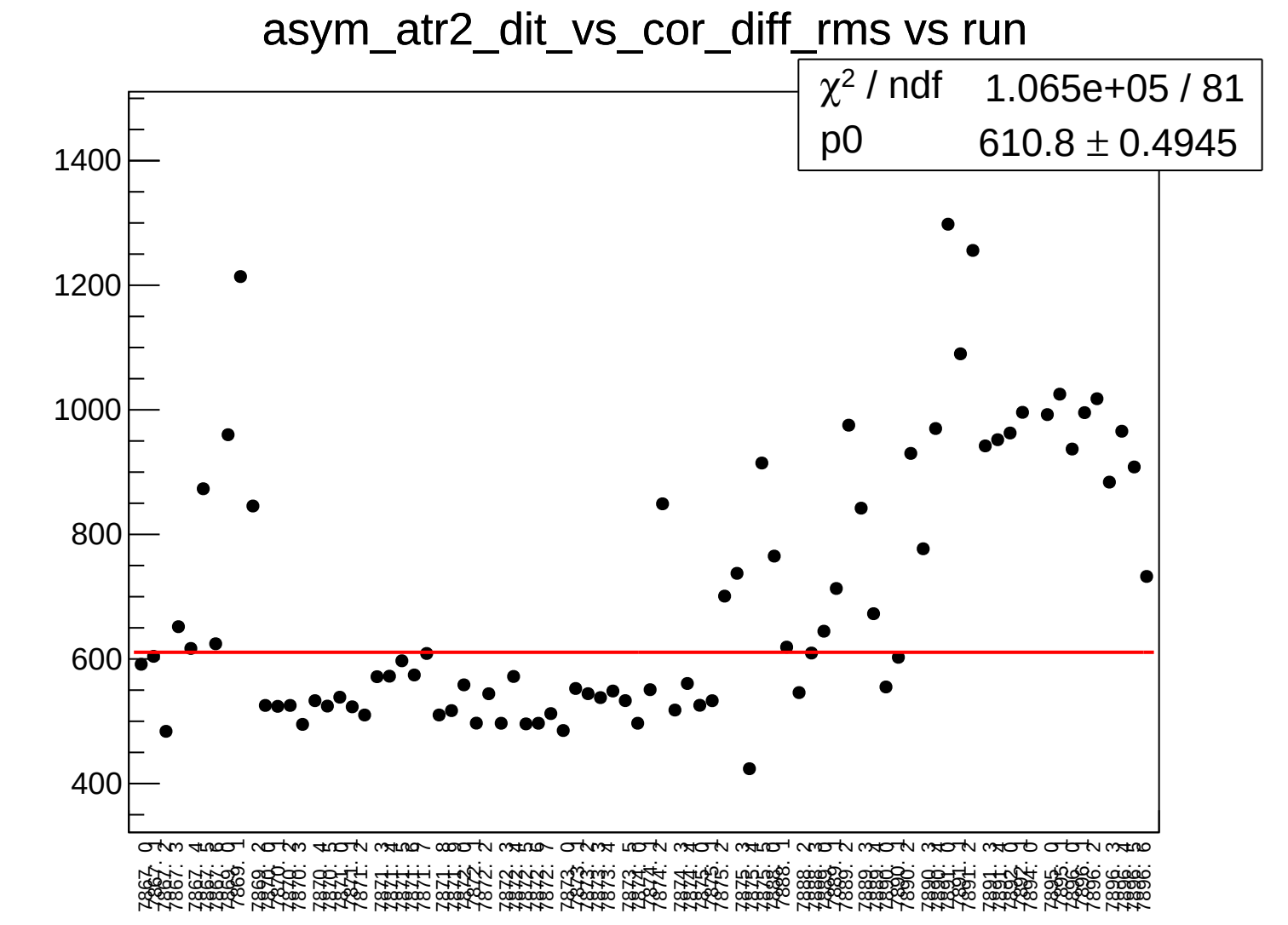

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 66.52 / 81
p0 7.74e−13 ± 2.158e−12
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 82
Mean −12.63
Std Dev 0

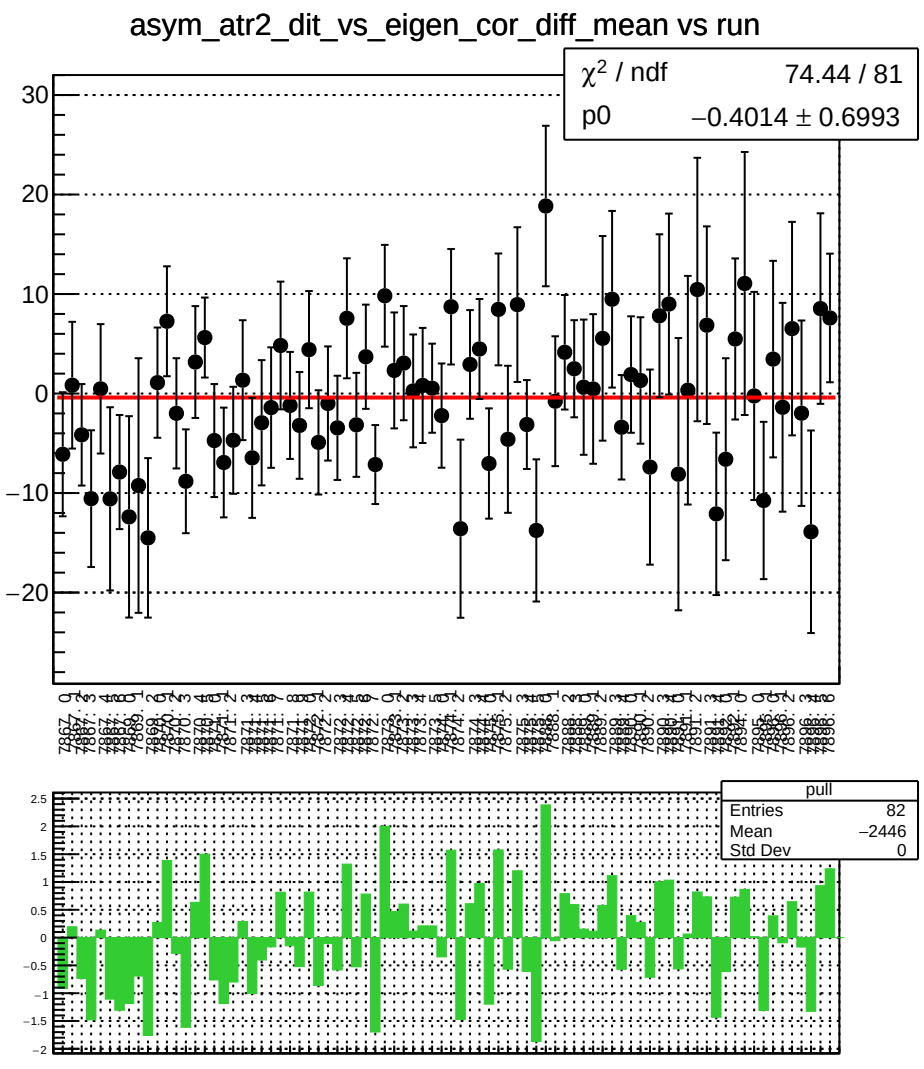

pull1D
Entries 82
Mean −0.0283
Std Dev 0.9003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

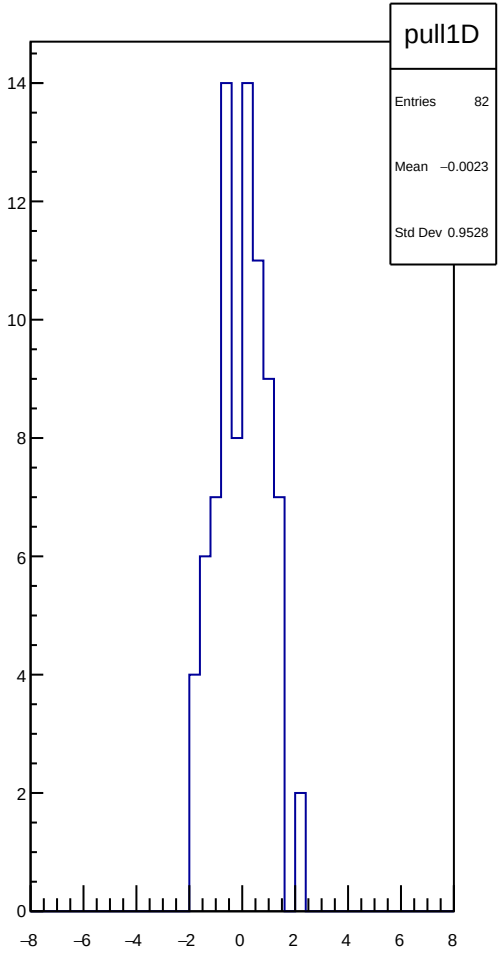

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 81
p0 1.111e−09 ± 1.526e−12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

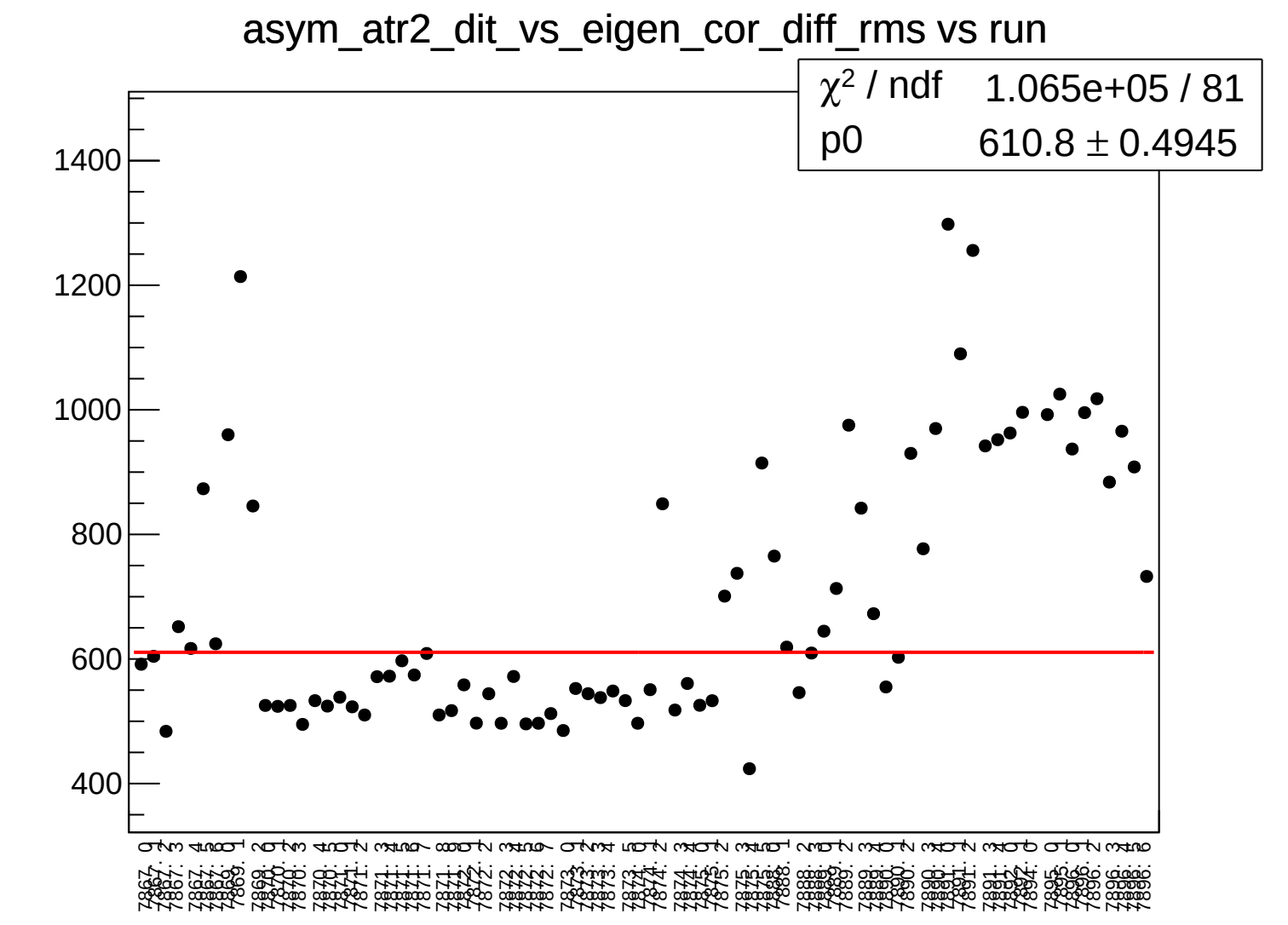

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 74.44 / 81
p0 −0.4014 ± 0.6993
pull
Entries 82
Mean −2446
Std Dev 0

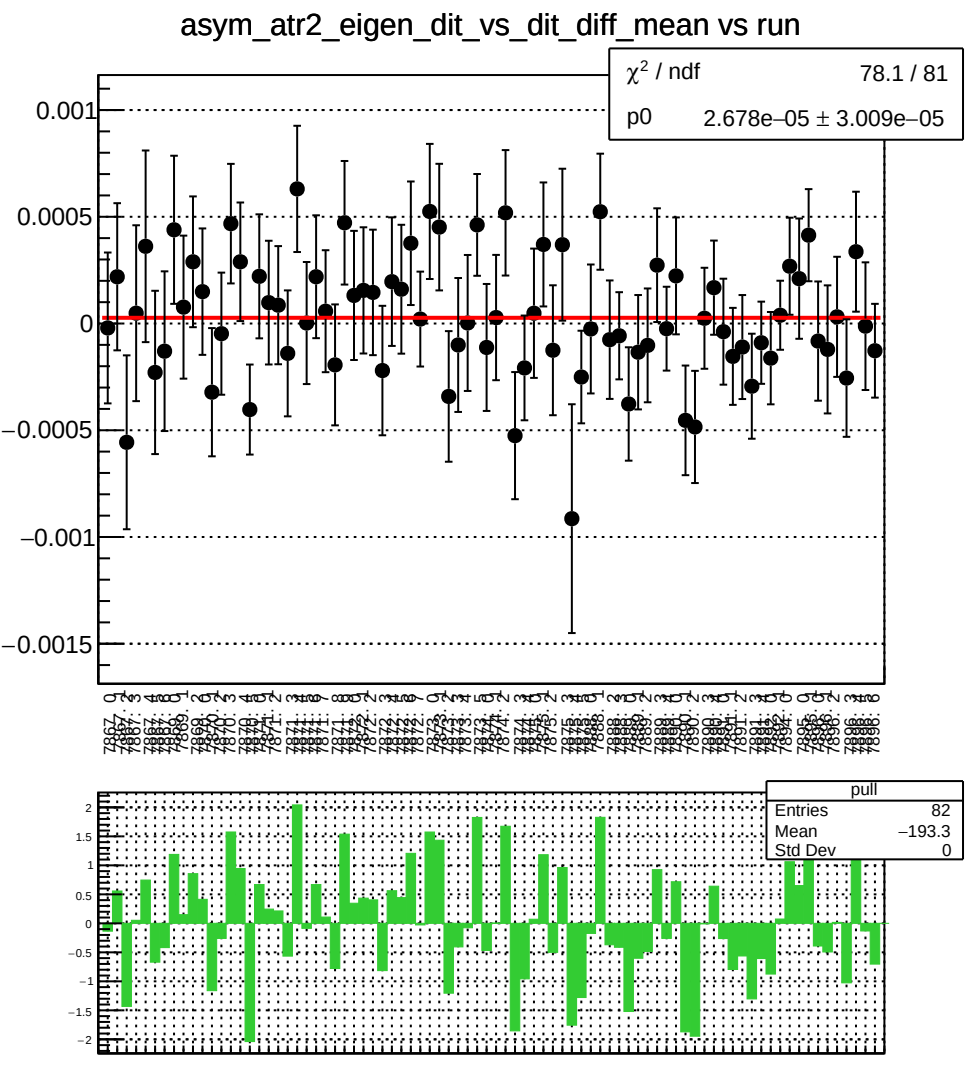

pull1D
Entries 82
Mean −0.0023
Std Dev 0.9528

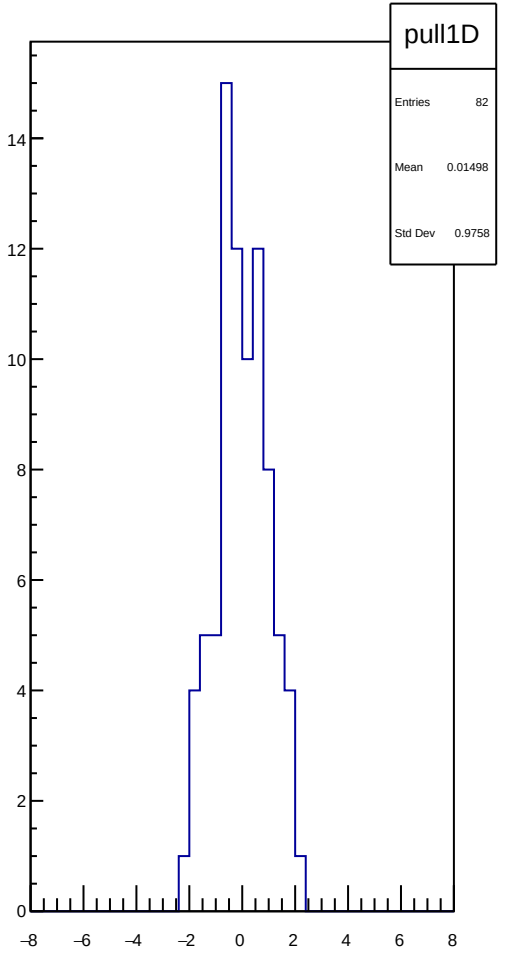

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.065e+05 / 81
p0 610.8 ± 0.4945
1400
1200
1000
800
600
400

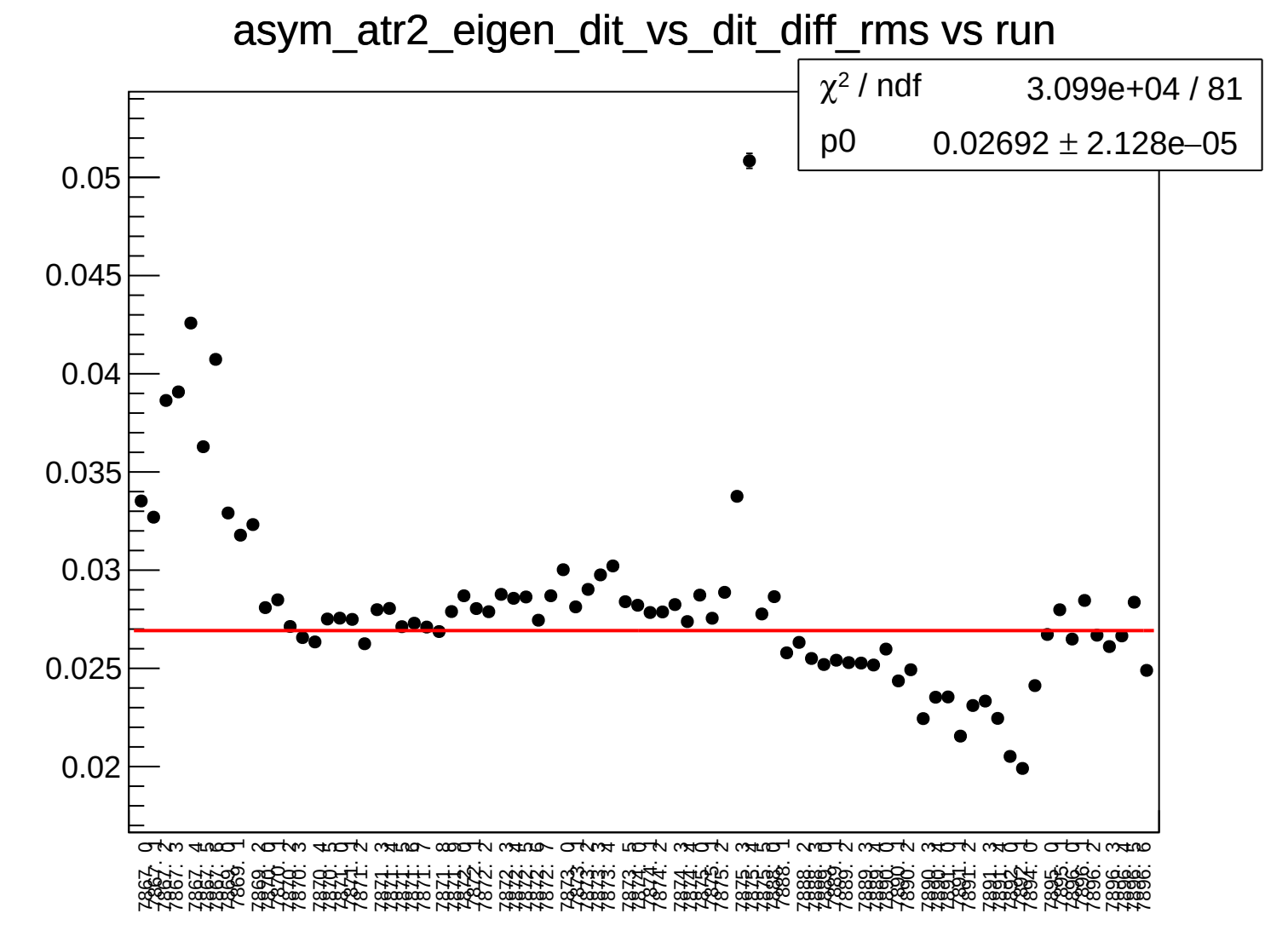

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.44 / 81
p0 −0.4014 ± 0.6993
pull
Entries 82
Mean −2446
Std Dev 0

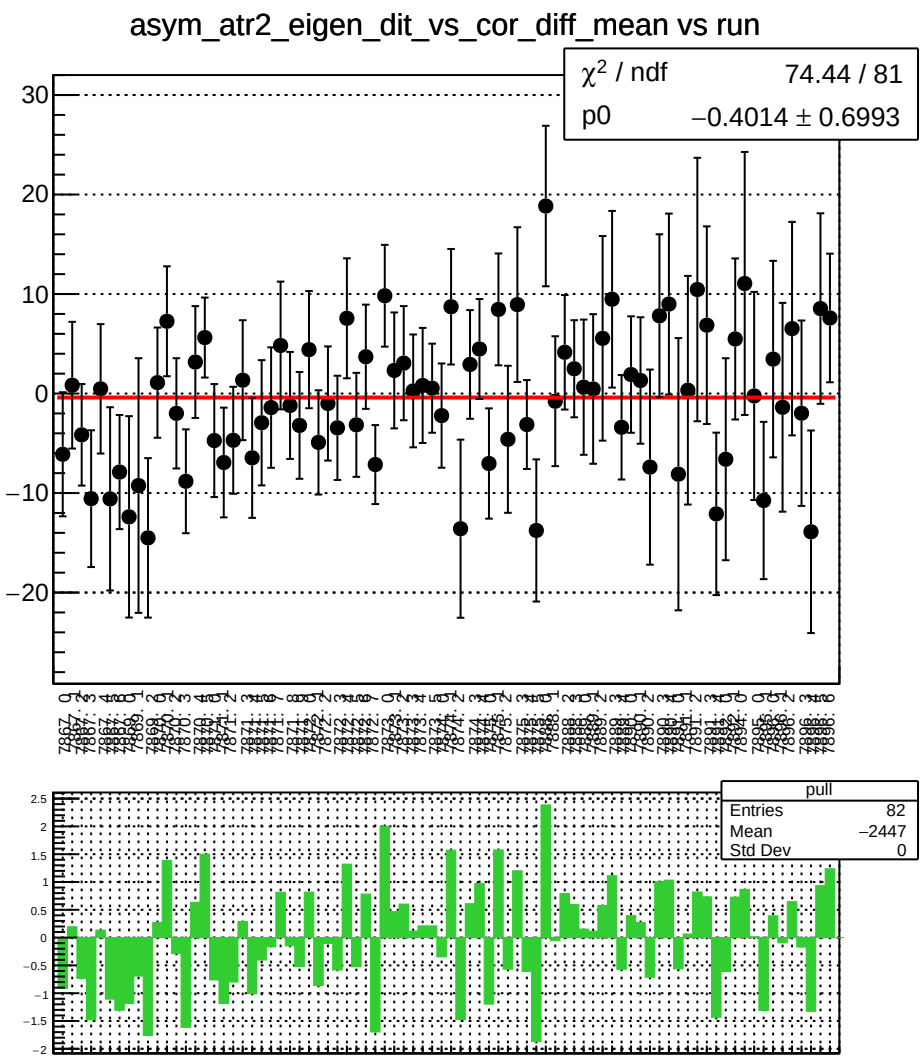

pull1D
Entries 82
Mean −0.0023
Std Dev 0.9528

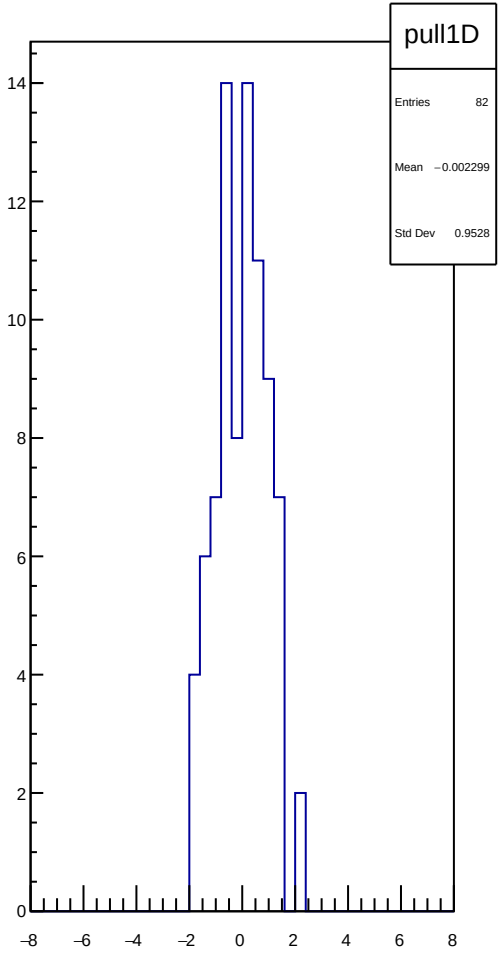

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.065e+05 / 81
p0 610.8 ± 0.4945
1400
1200
1000
800
600
400

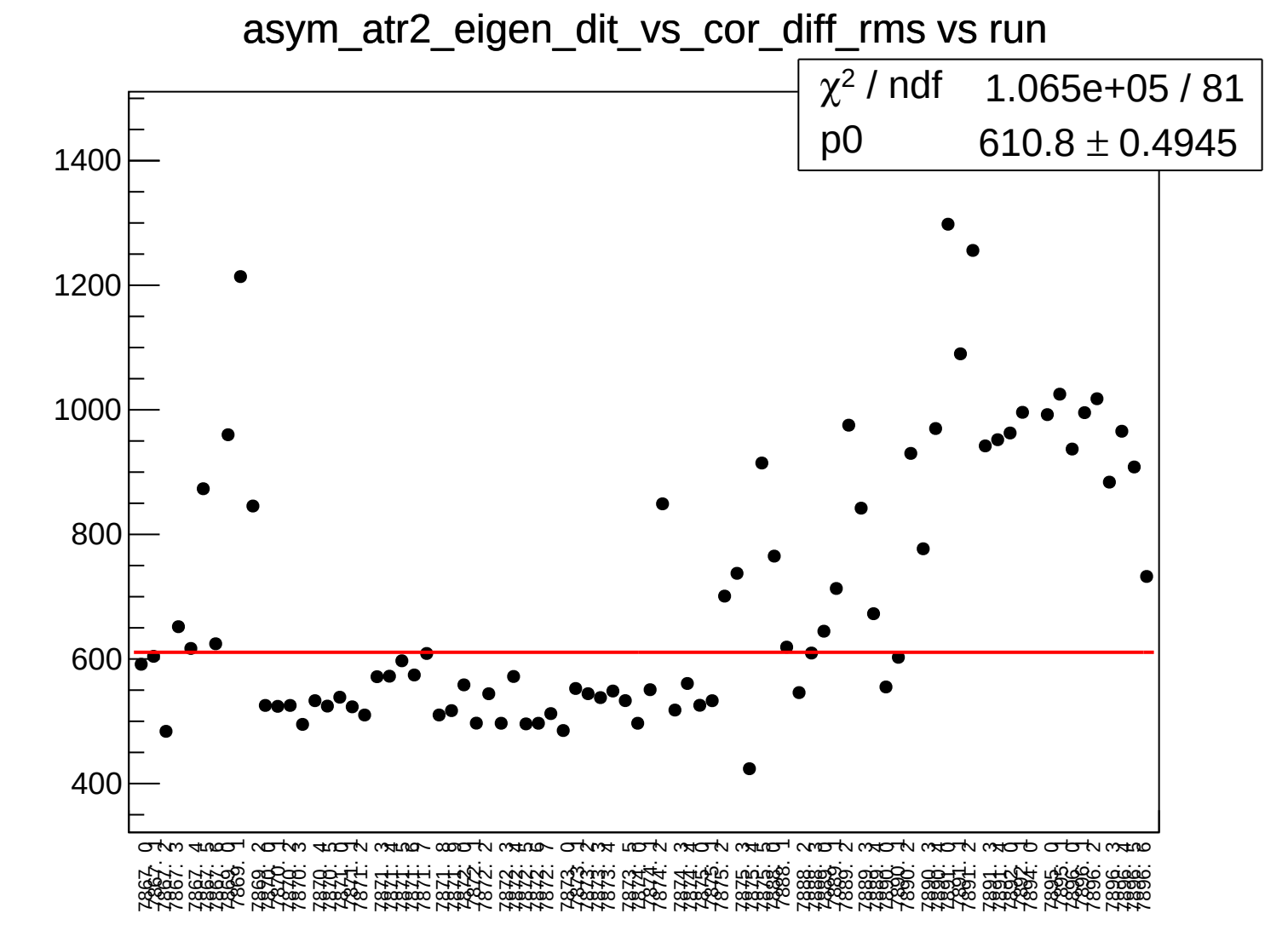

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 78.1 / 81
p0 2.678e−05 ± 3.009e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean −193.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

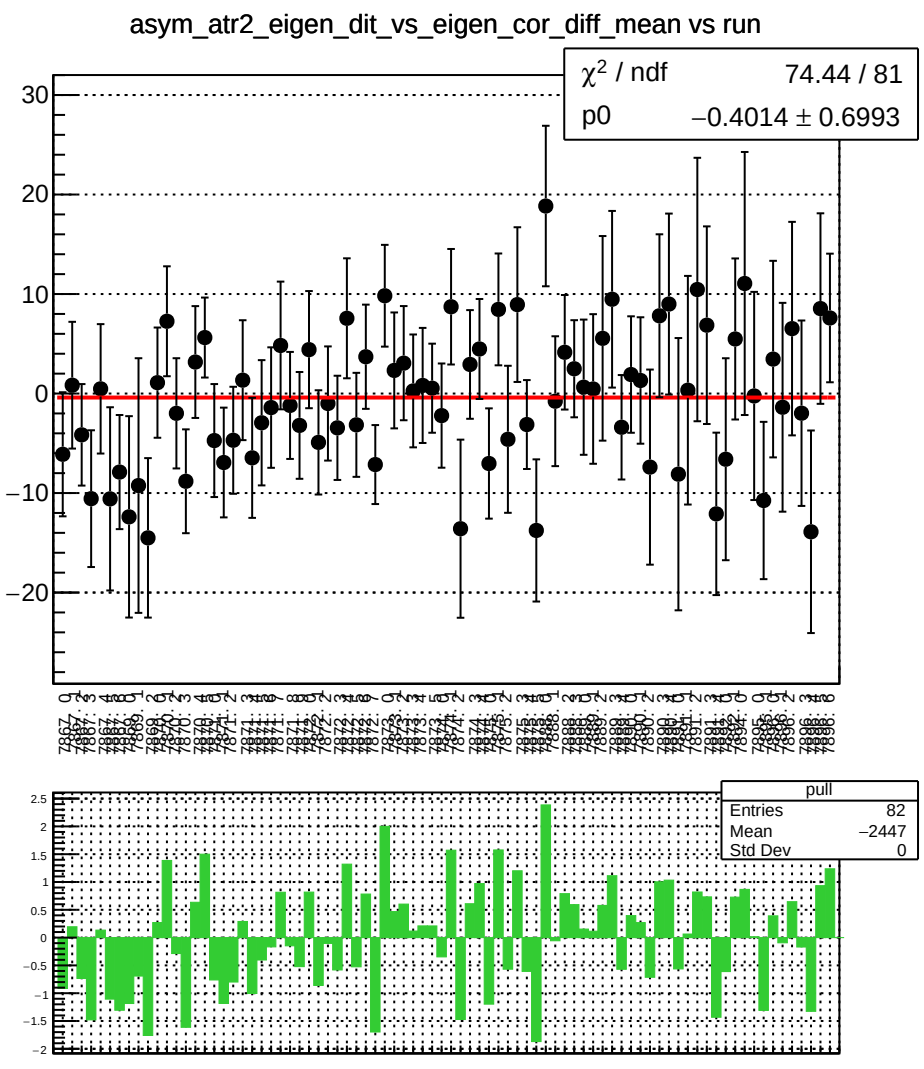

pull1D
Entries 82
Mean 0.01498
Std Dev 0.9758
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

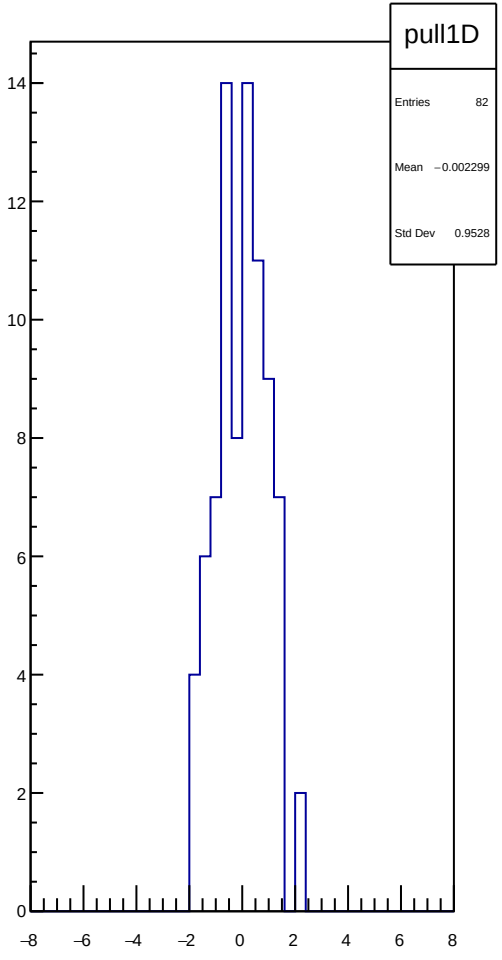

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.099e+04 / 81
p0 0.02692 ± 2.128e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02

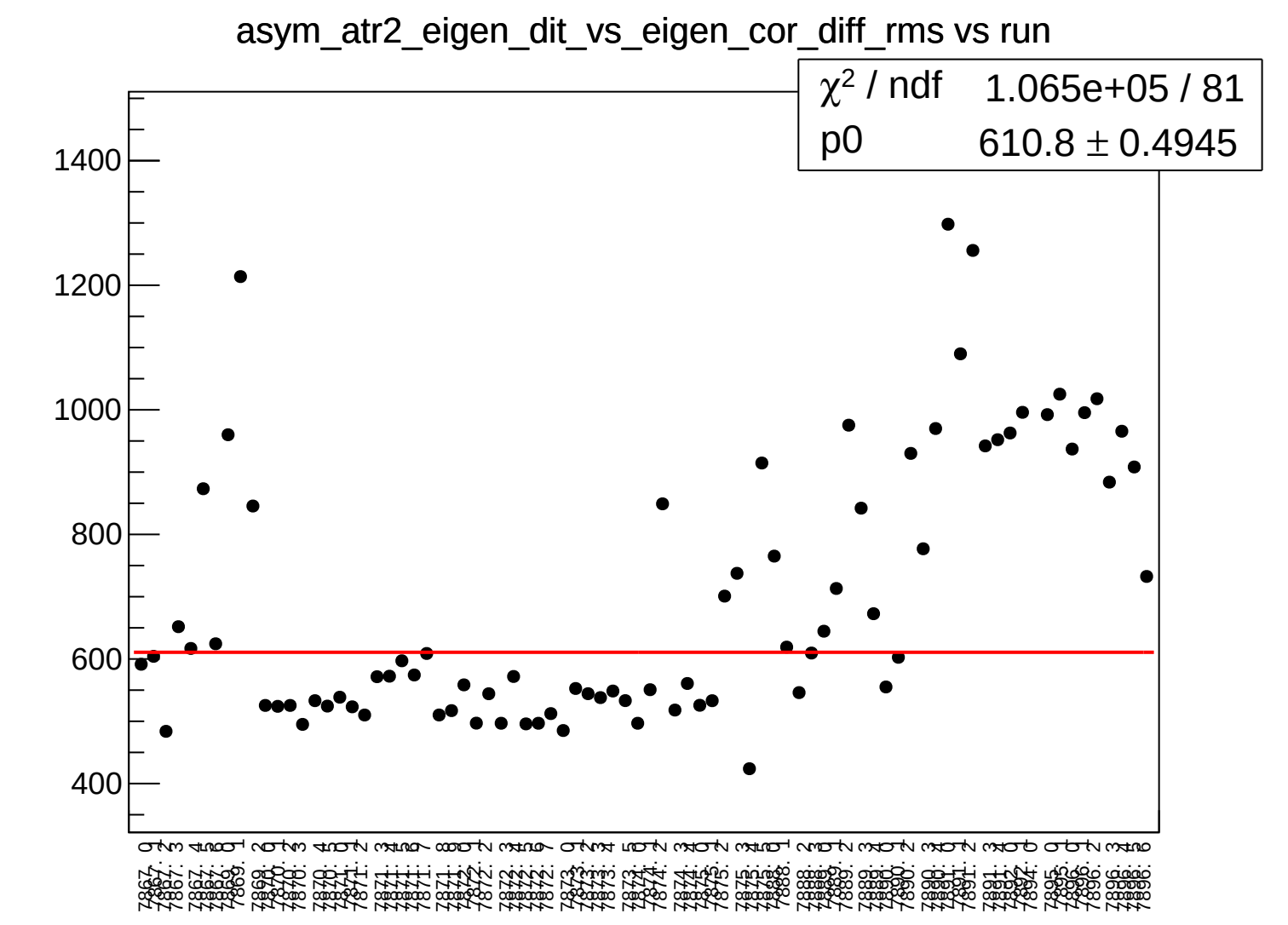

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.44 / 81
p0 −0.4014 ± 0.6993
pull
Entries 82
Mean −2447
Std Dev 0

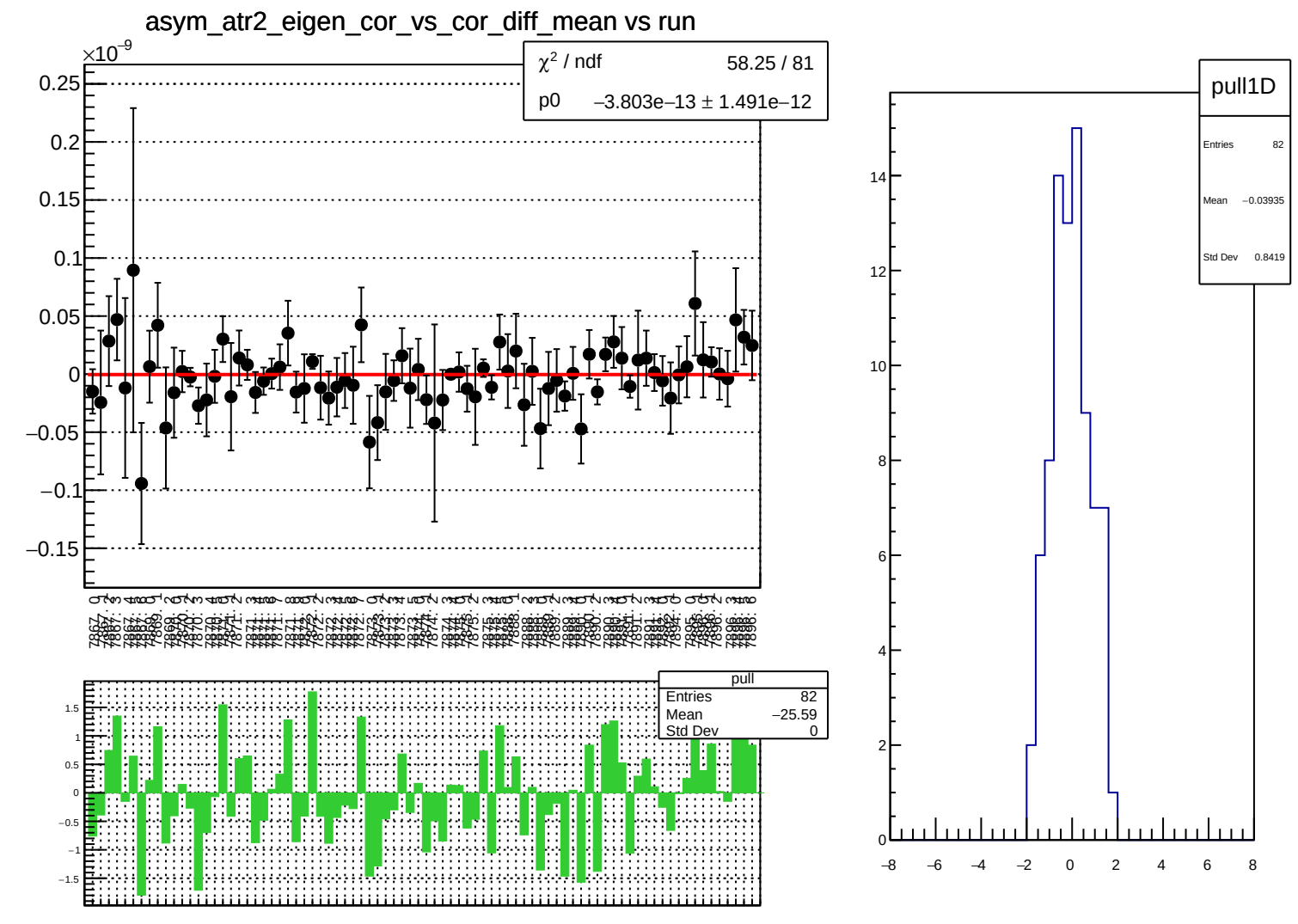

pull1D
Entries 82
Mean −0.002299
Std Dev 0.9528

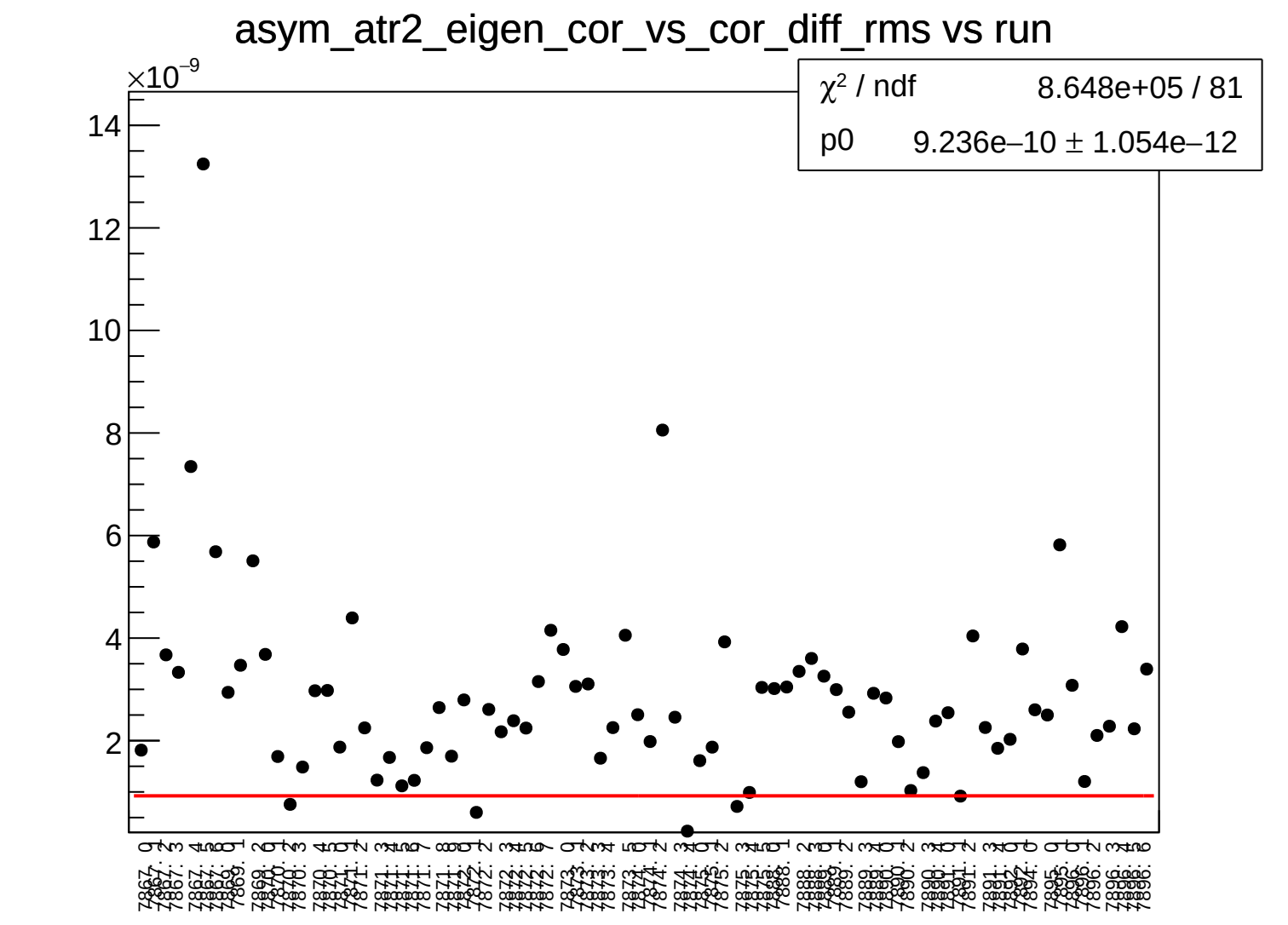

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.065e+05 / 81
p0 610.8 ± 0.4945
1400
1200
1000
800
600
400

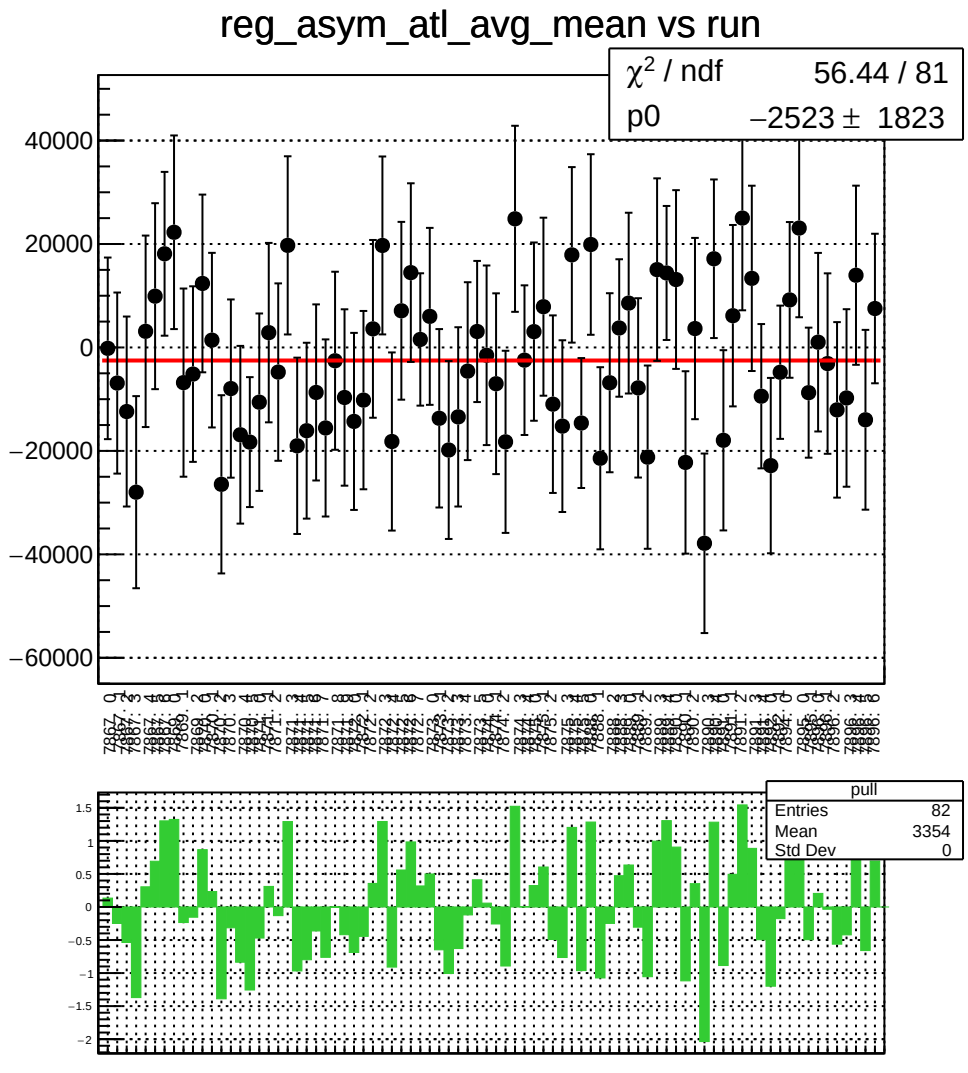

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.44 / 81
p0 −0.4014 ± 0.6993
pull
Entries 82
Mean −2447
Std Dev 0

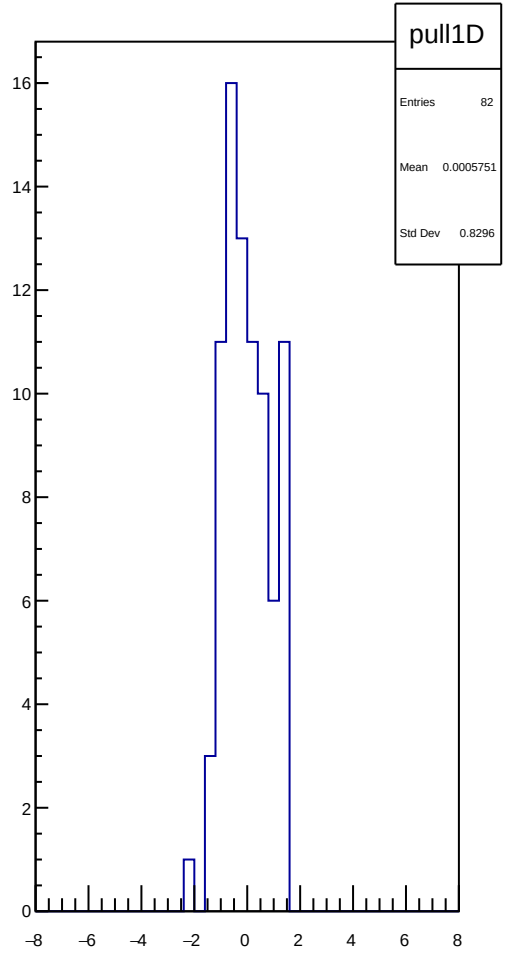

pull1D
Entries 82
Mean −0.002299
Std Dev 0.9528

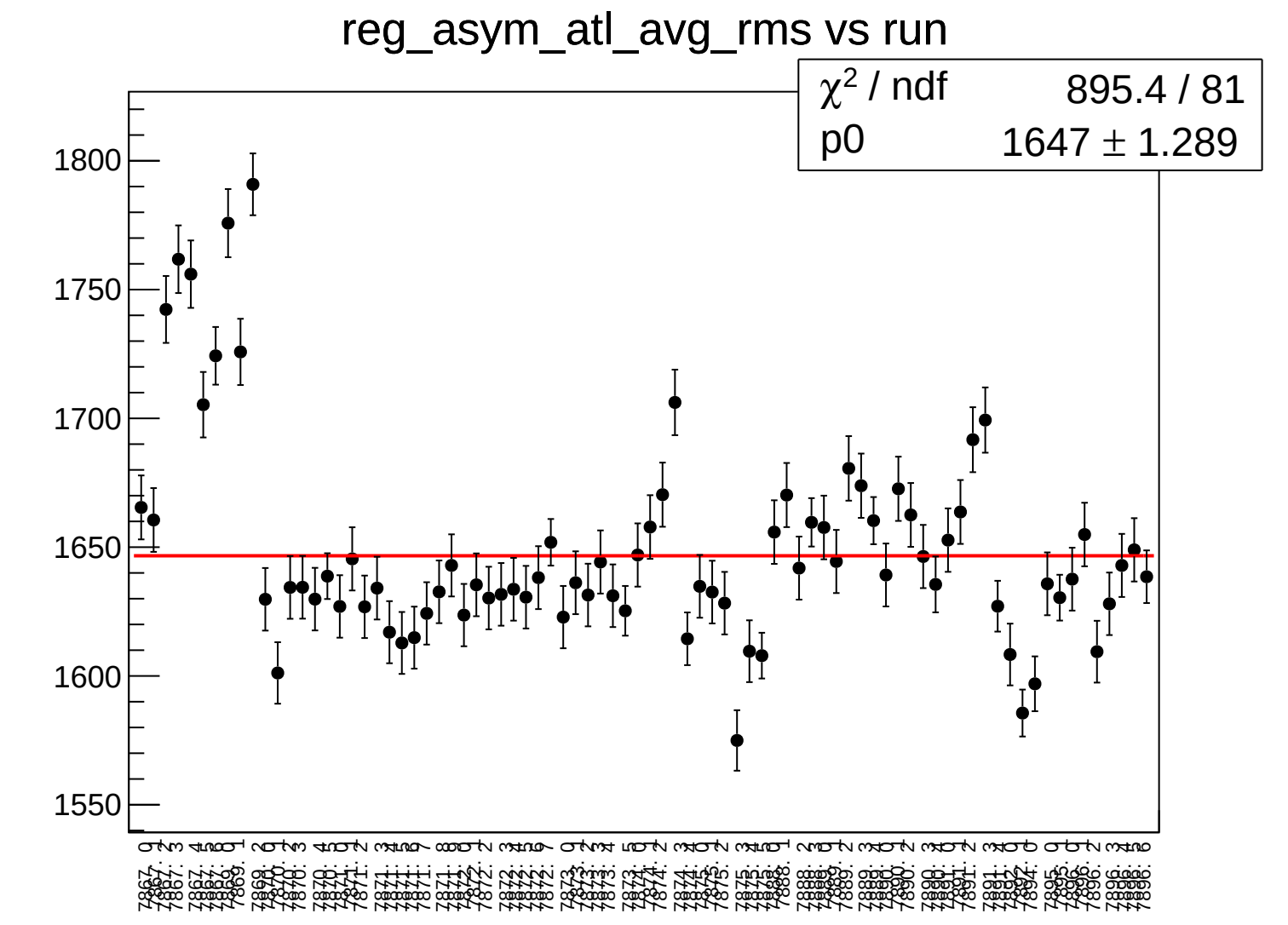

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.065e+05 / 81
p0 610.8 ± 0.4945
1400
1200
1000
800
600
400

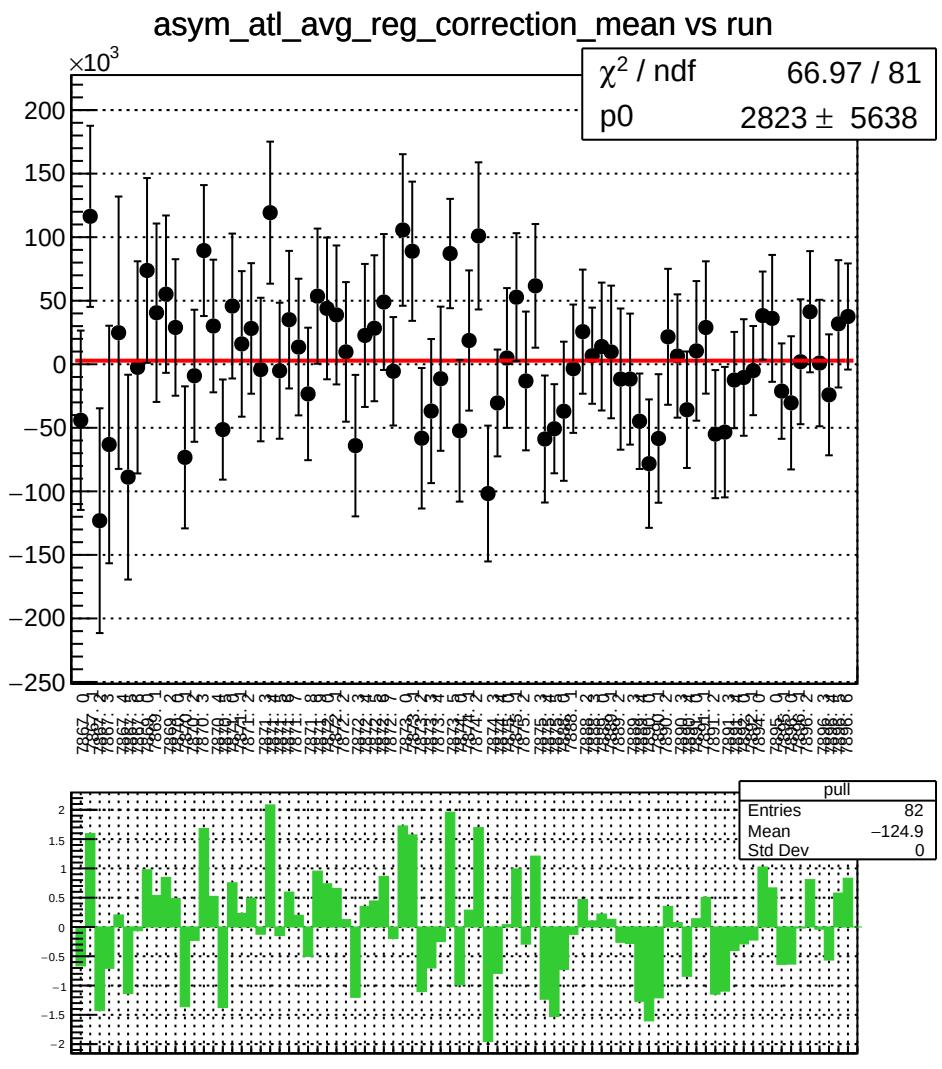

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 58.25 / 81
p0 −3.803e−13 ± 1.491e−12
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean −25.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.03935
Std Dev 0.8419
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

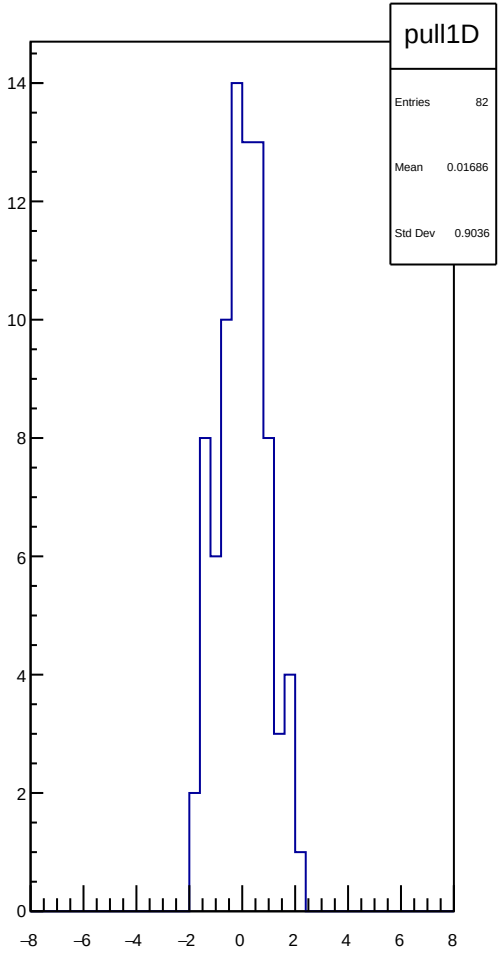

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.648e+05 / 81
p0 9.236e−10 ± 1.054e−12
14
12
10
8
6
4
2

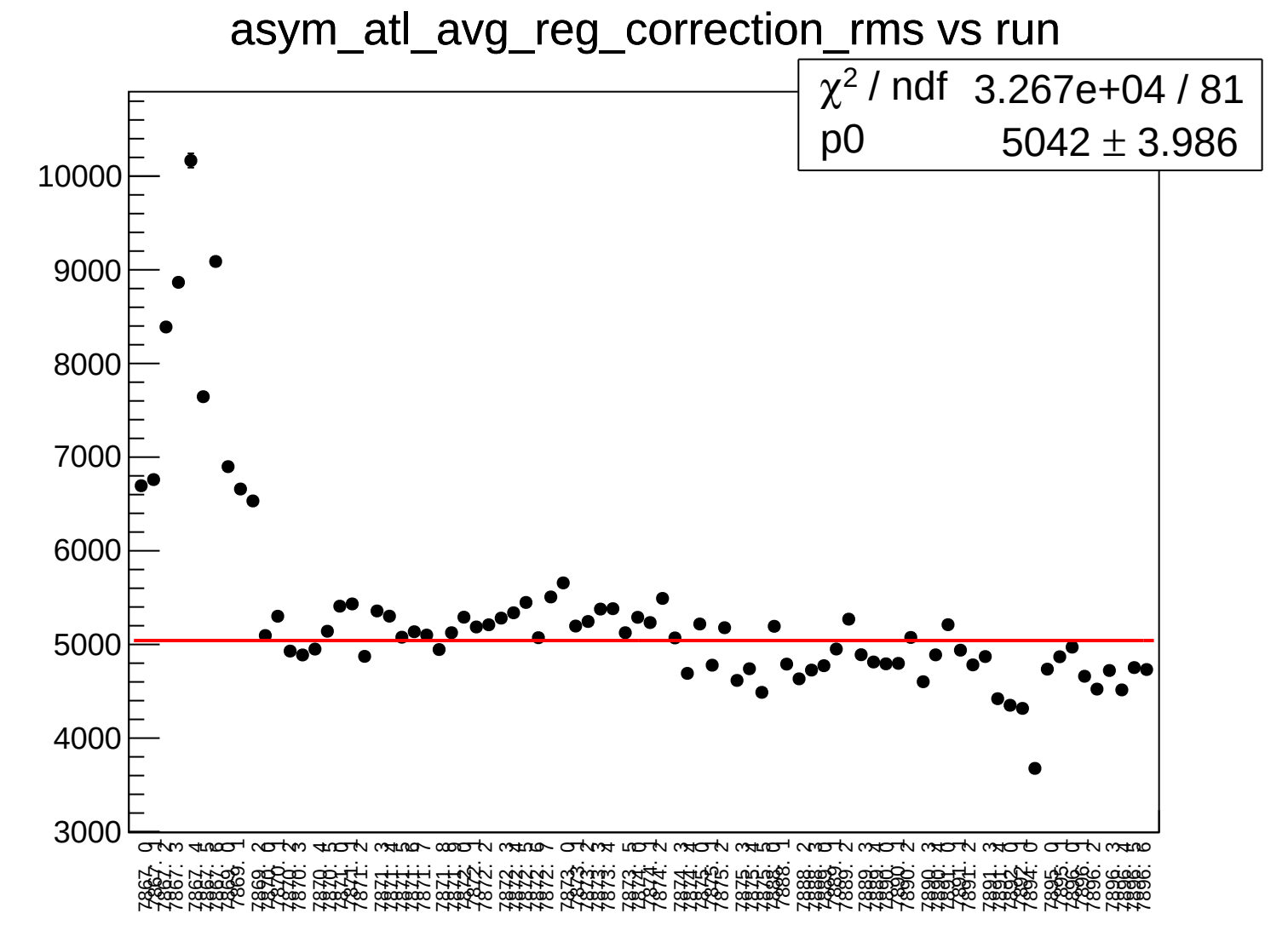

reg_asym_atl_avg_mean vs run
χ² / ndf 56.44 / 81
p0 −2523 ± 1823
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 3354
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

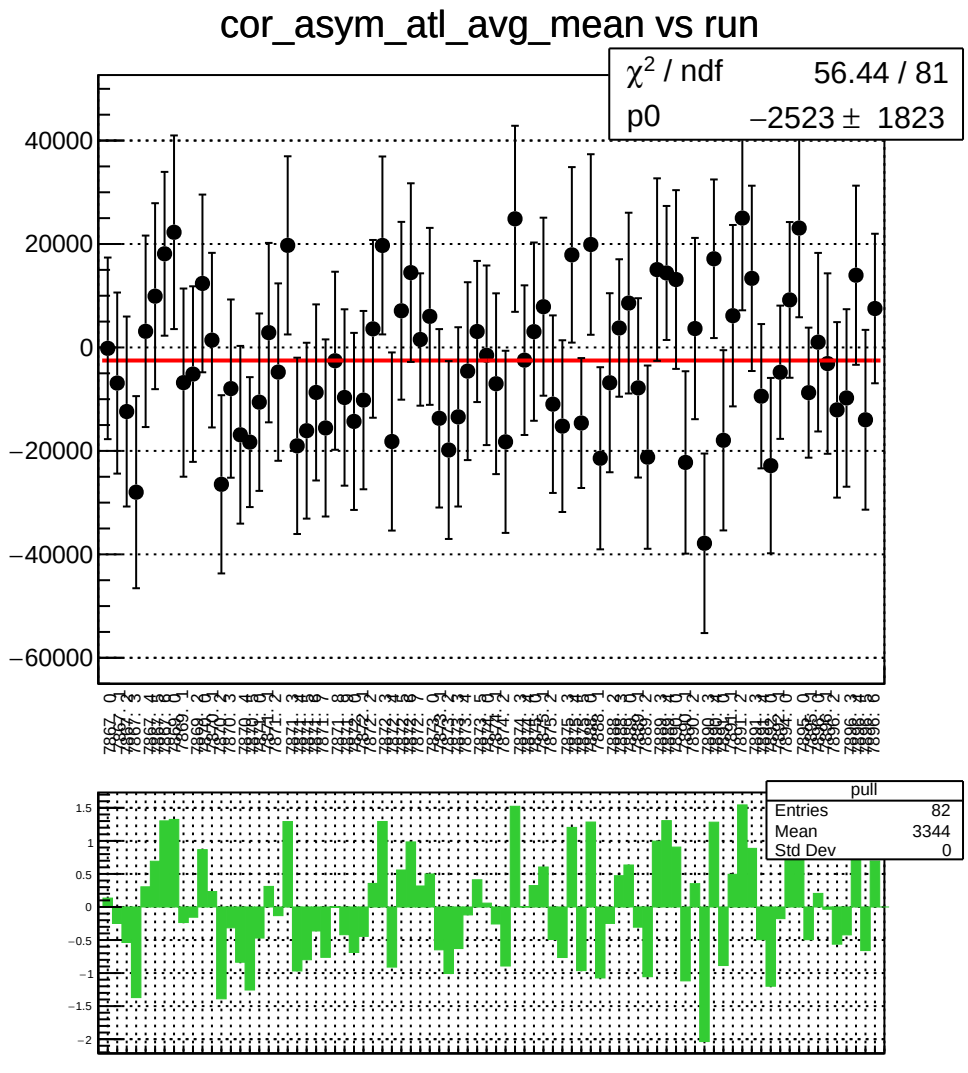

pull1D
Entries 82
Mean 0.0005751
Std Dev 0.8296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

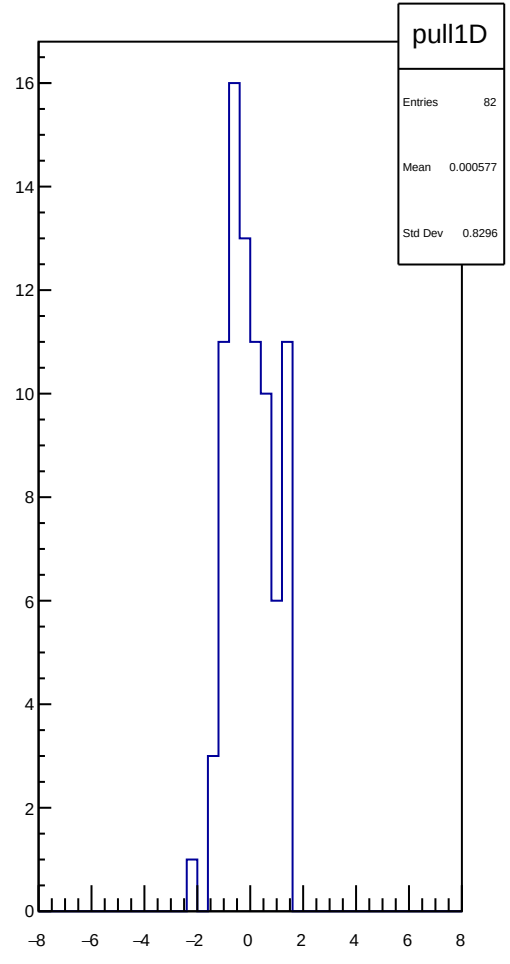

reg_asym_atl_avg_rms vs run
χ^2 / ndf 895.4 / 81
p0 1647 ± 1.289
1800
1750
1700
1650
1600
1550

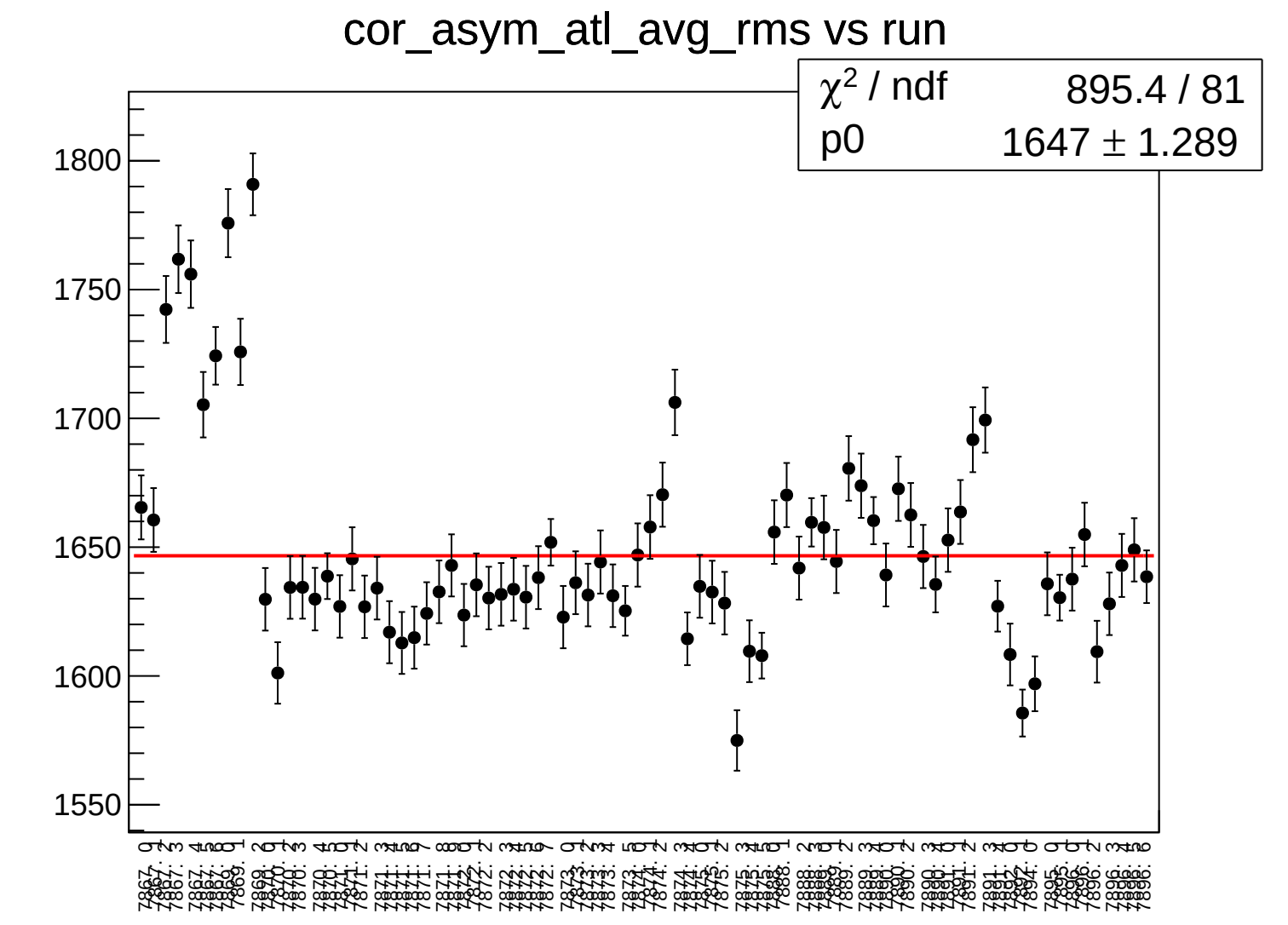

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 66.97 / 81
p0 2823 ± 5638
×10³
pull
Entries 82
Mean −124.9
Std Dev 0

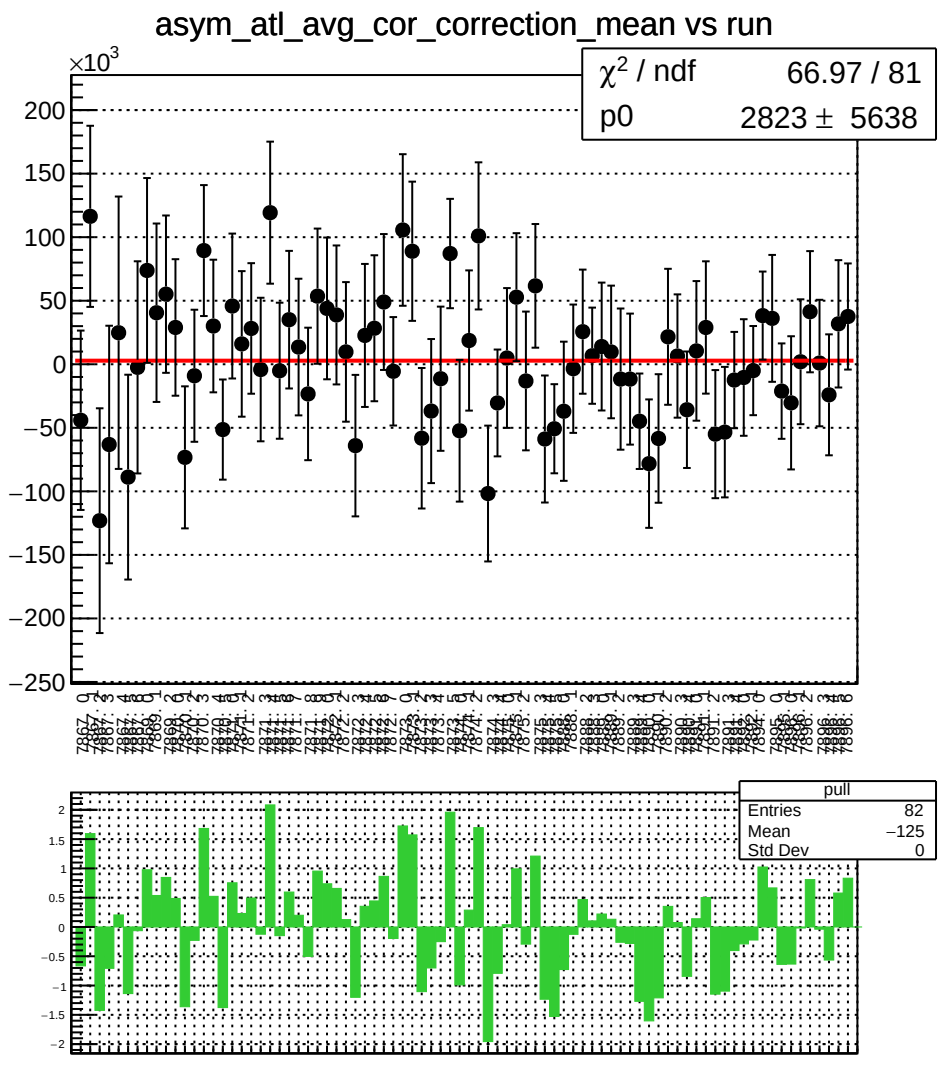

pull1D
Entries 82
Mean 0.01686
Std Dev 0.9036

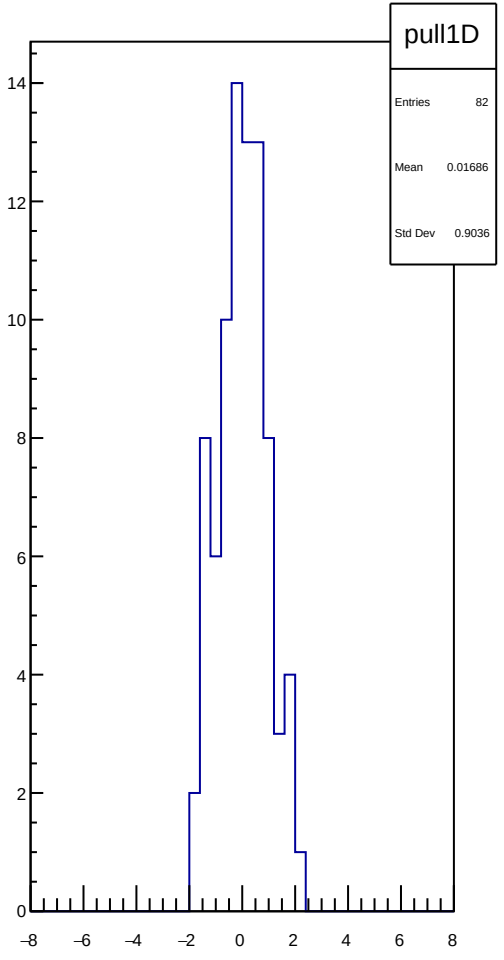

asym_atl_avg_reg_correction_rms vs run
χ^2 / ndf 3.267e+04 / 81
p0 5042 ± 3.986
10000
9000
8000
7000
6000
5000
4000
3000

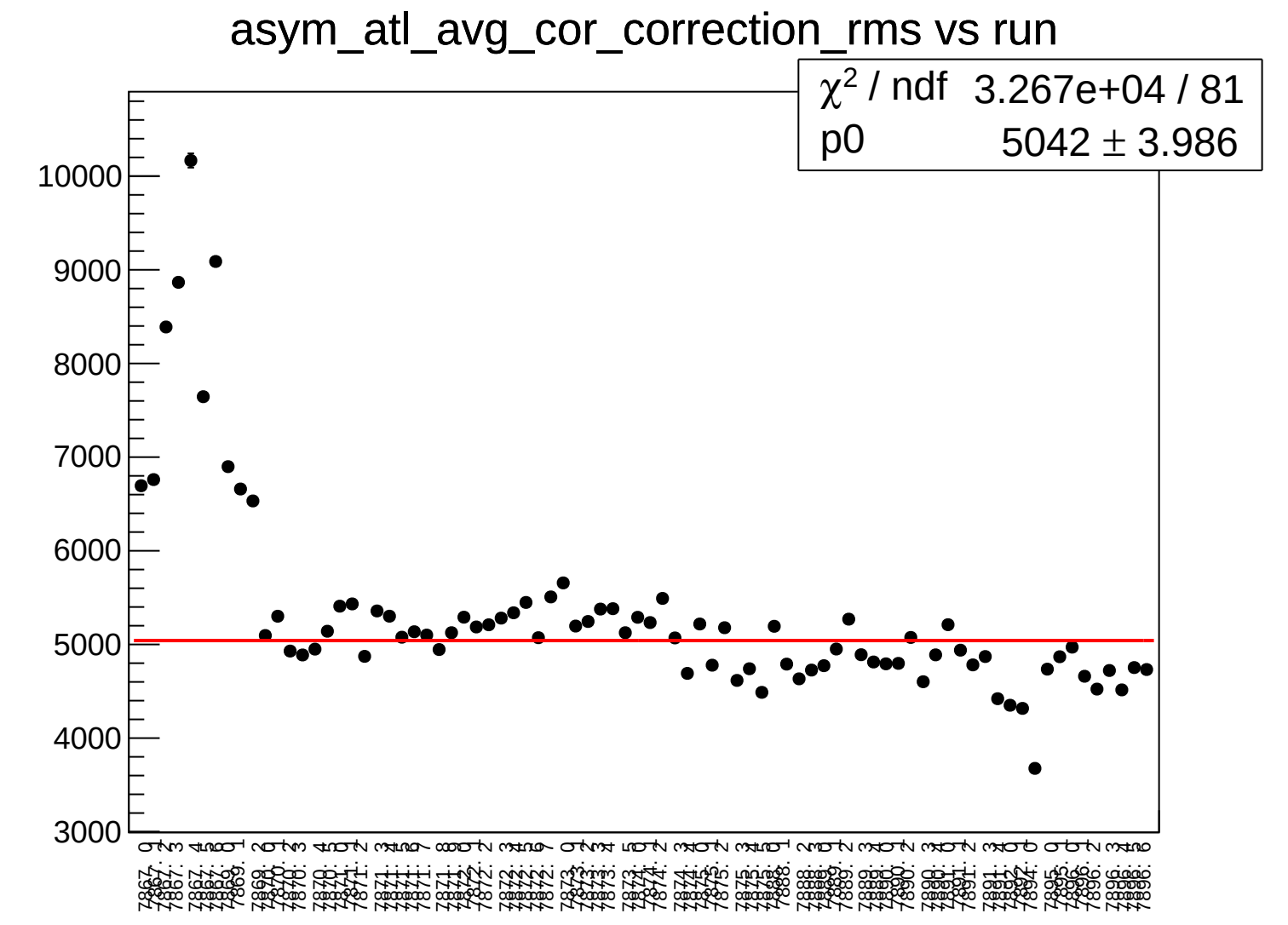

cor_asym_atl_avg_mean vs run
χ² / ndf 56.44 / 81
p0 −2523 ± 1823
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 3344
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

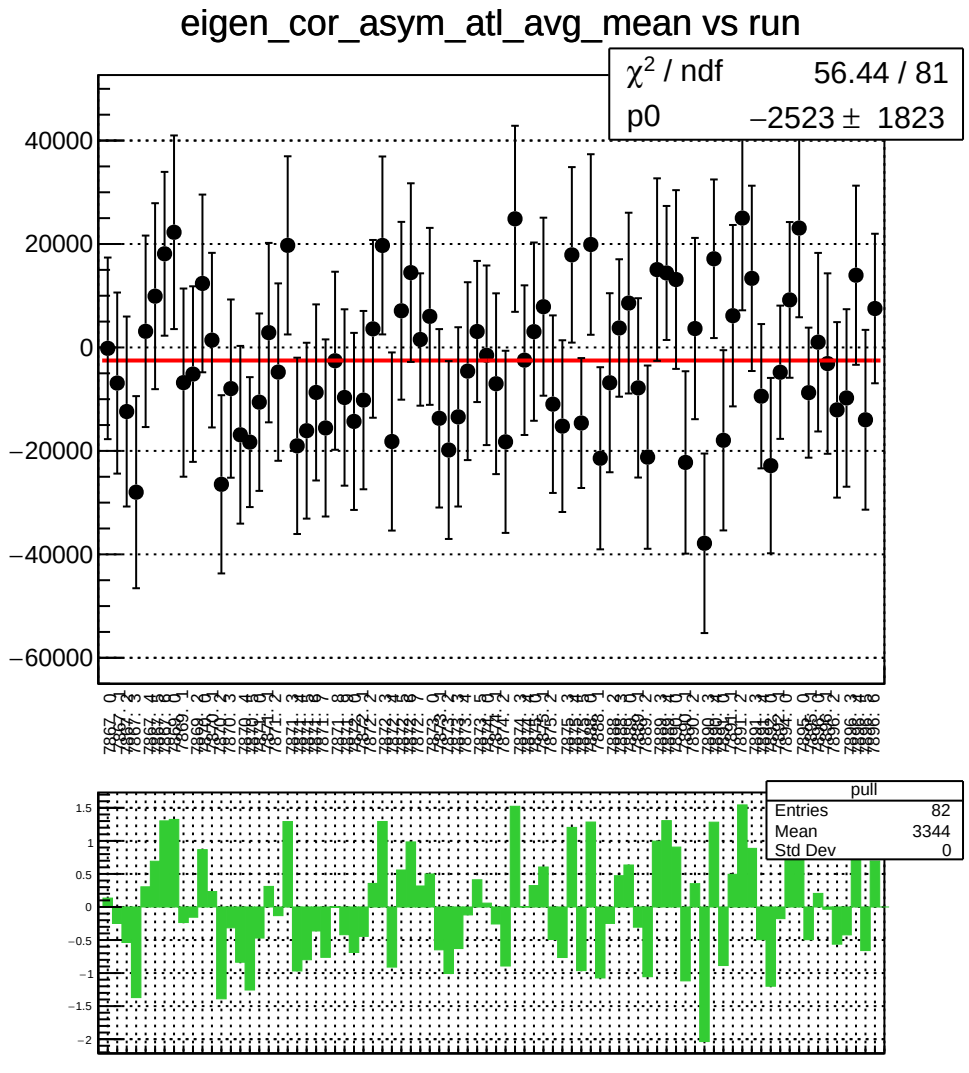

pull1D
Entries 82
Mean 0.000577
Std Dev 0.8296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

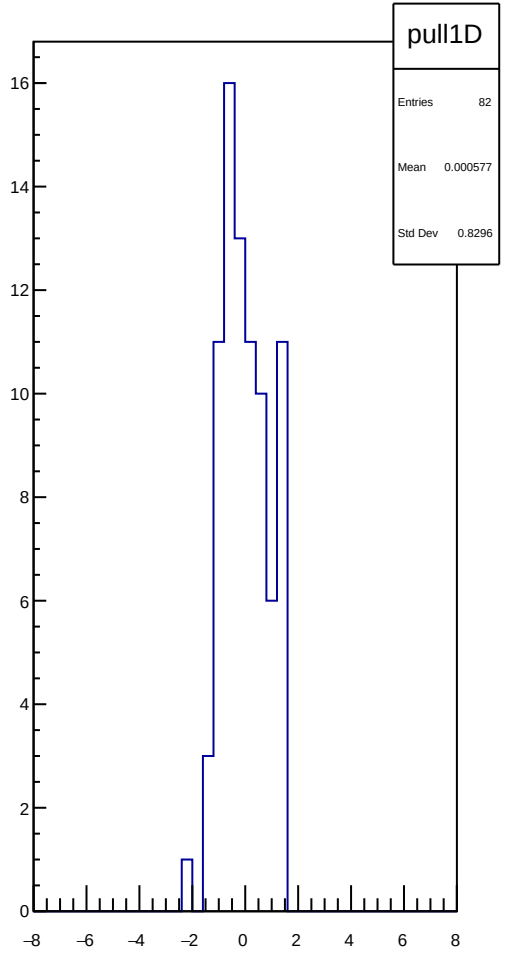

cor_asym_atl_avg_rms vs run
χ^2 / ndf 895.4 / 81
p0 1647 ± 1.289
1800
1750
1700
1650
1600
1550

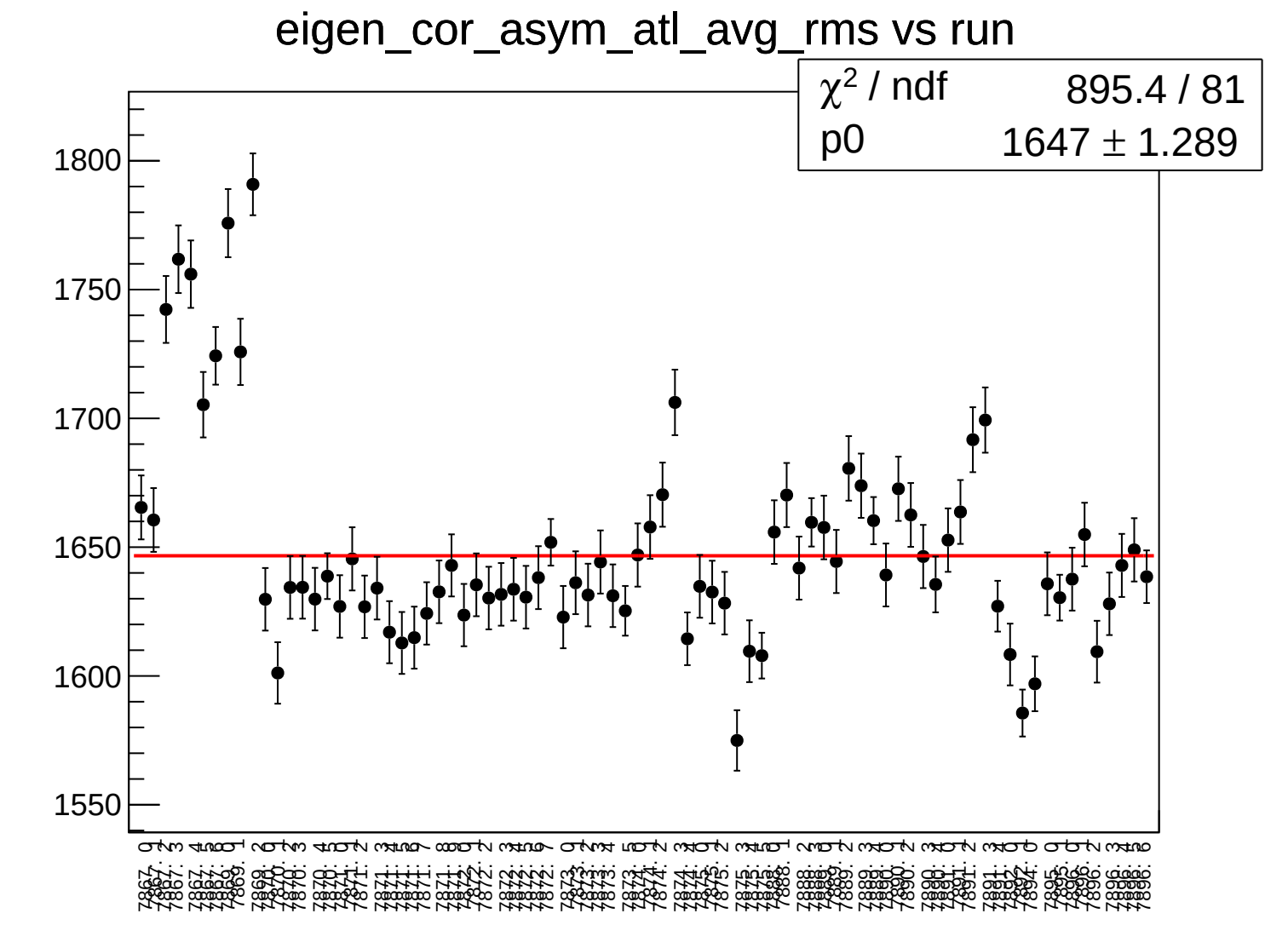

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.97 / 81
p0 2823 ± 5638
pull
Entries 82
Mean −125
Std Dev 0

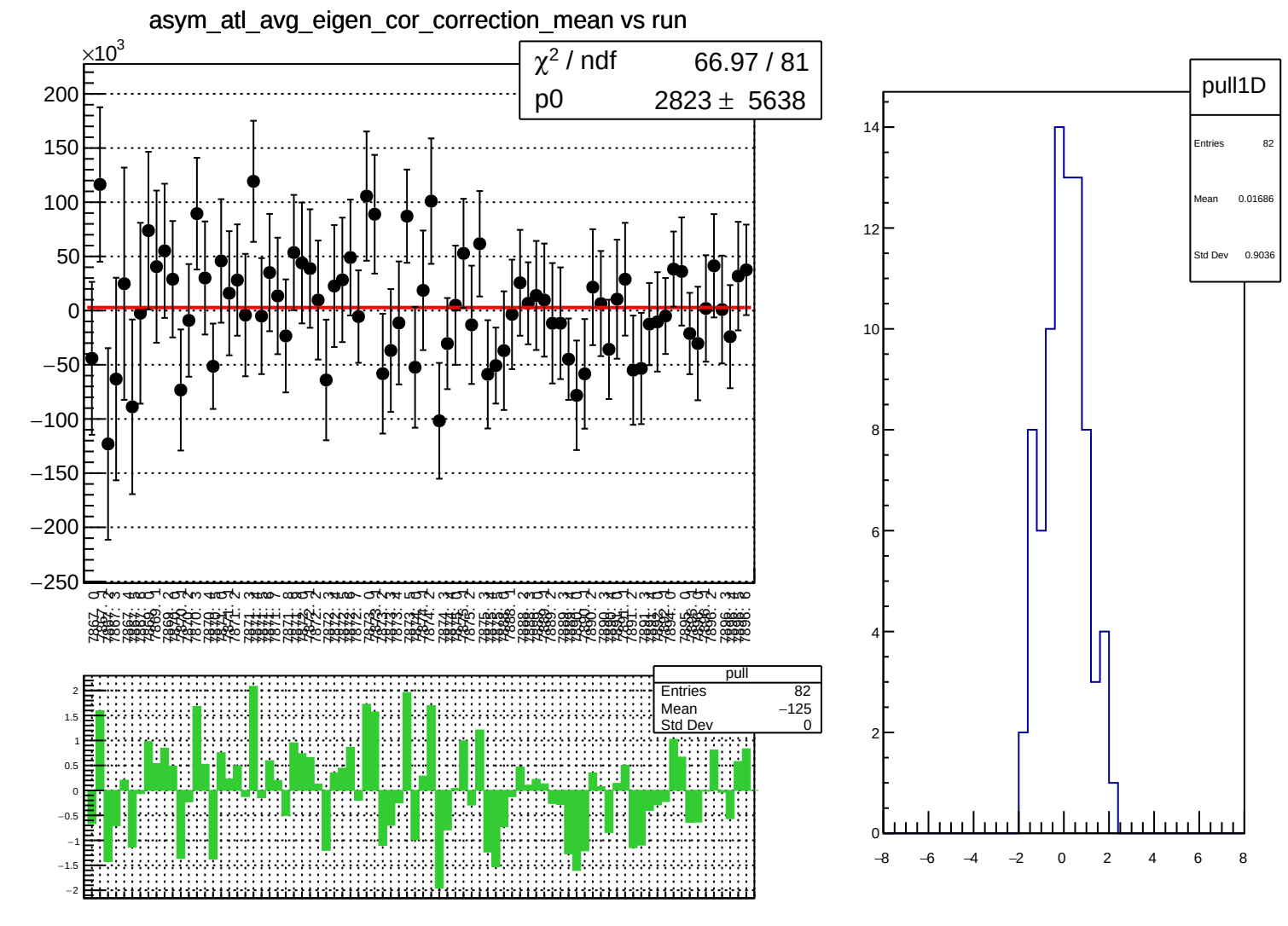

pull1D
Entries 82
Mean 0.01686
Std Dev 0.9036

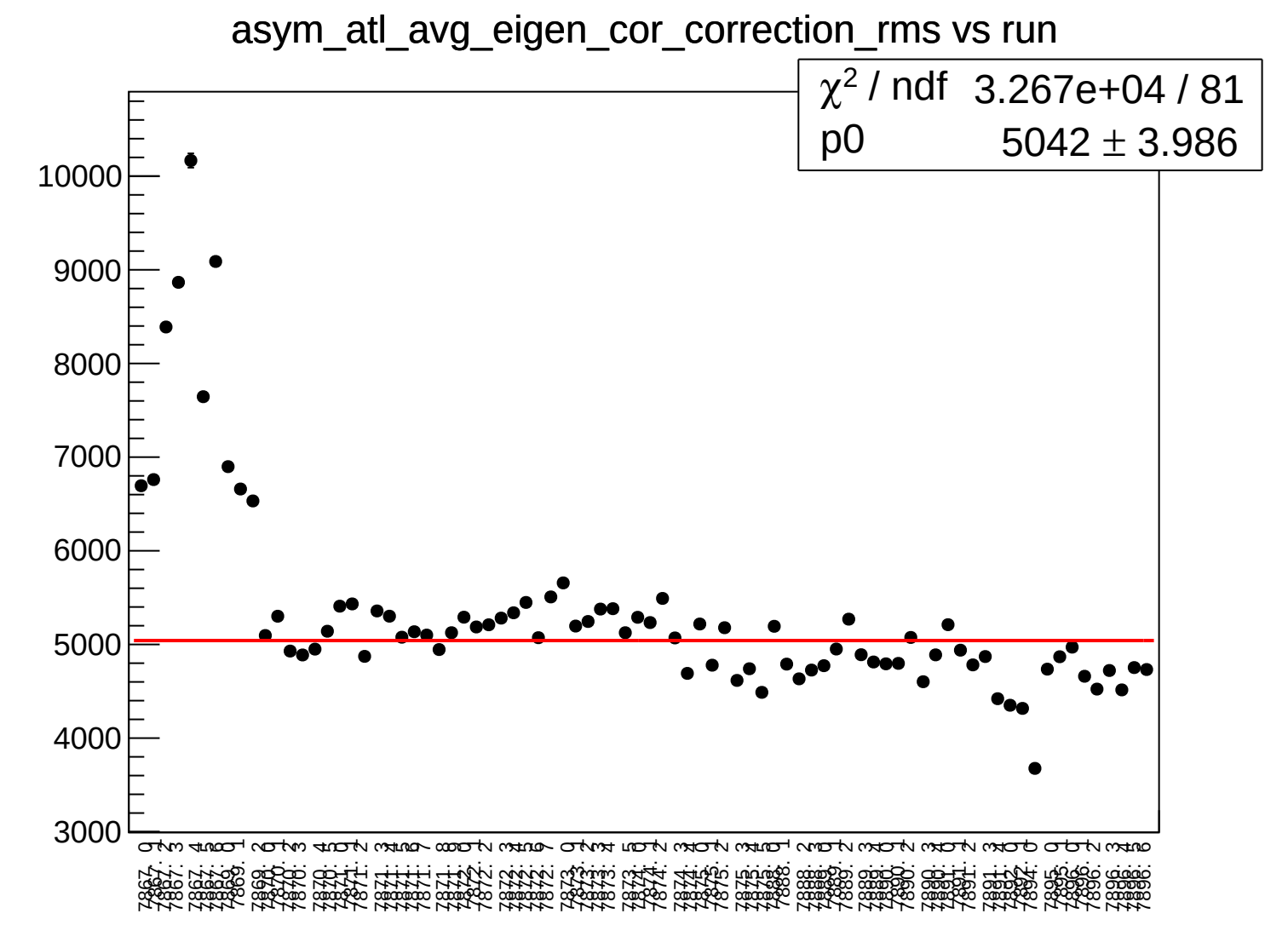

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 3.267e+04 / 81
p0 5042 ± 3.986
10000
9000
8000
7000
6000
5000
4000
3000

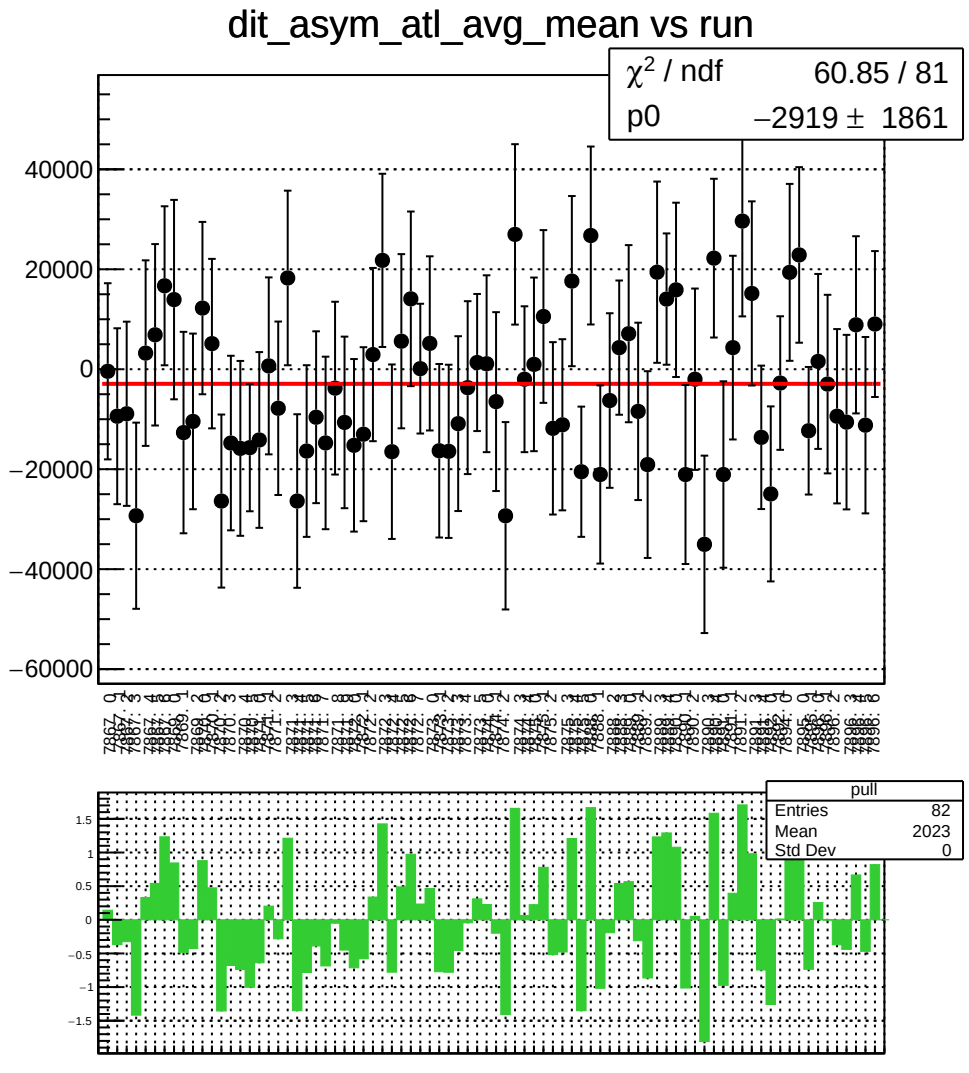

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 56.44 / 81
p0 −2523 ± 1823
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 3344
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

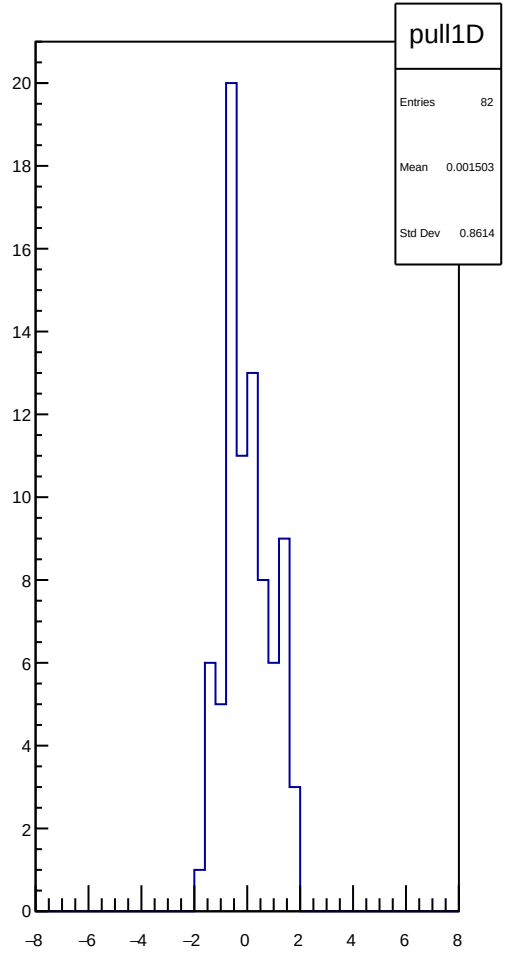

pull1D
Entries 82
Mean 0.000577
Std Dev 0.8296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

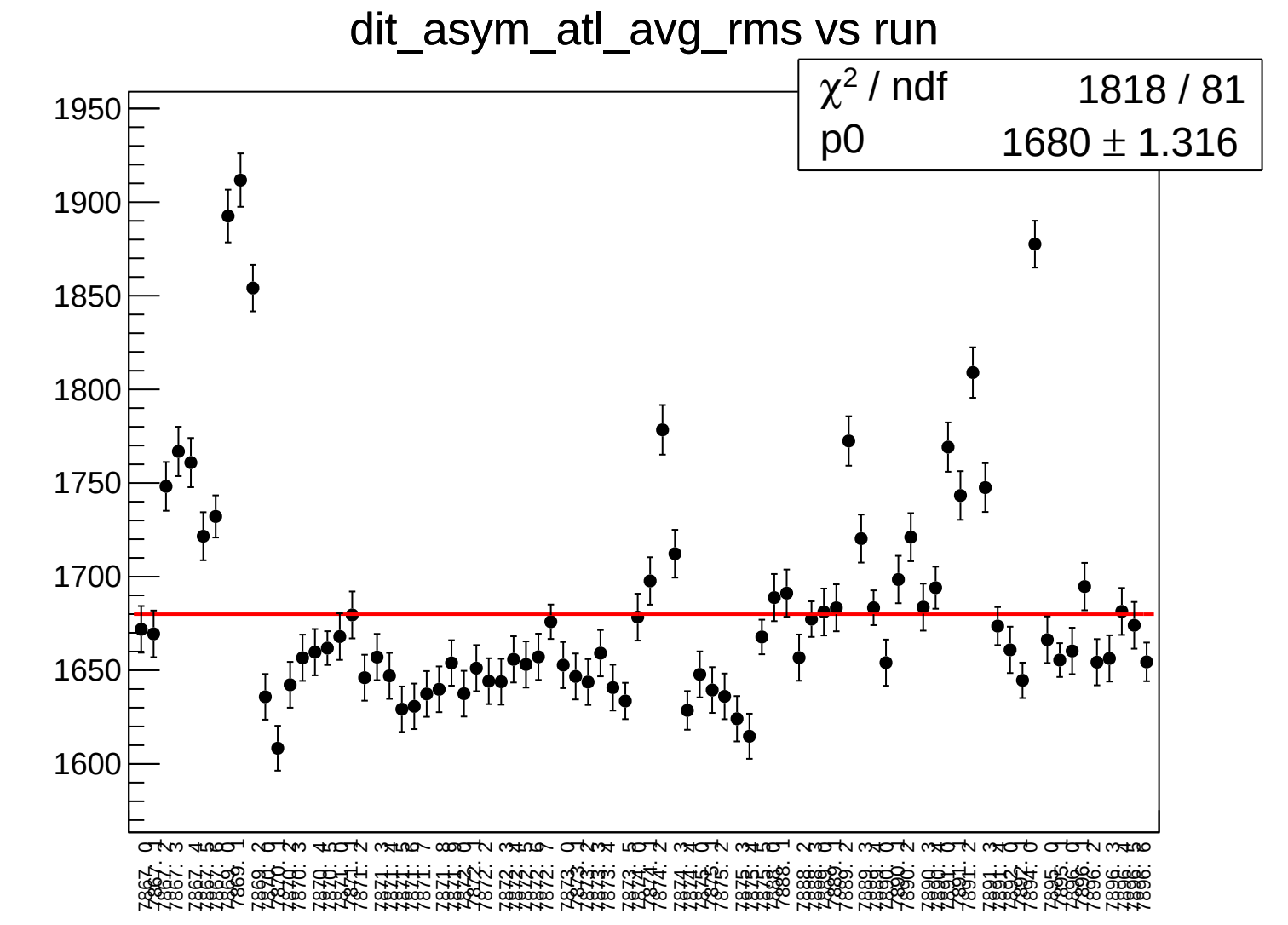

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 895.4 / 81
p0 1647 ± 1.289
1800
1750
1700
1650
1600
1550

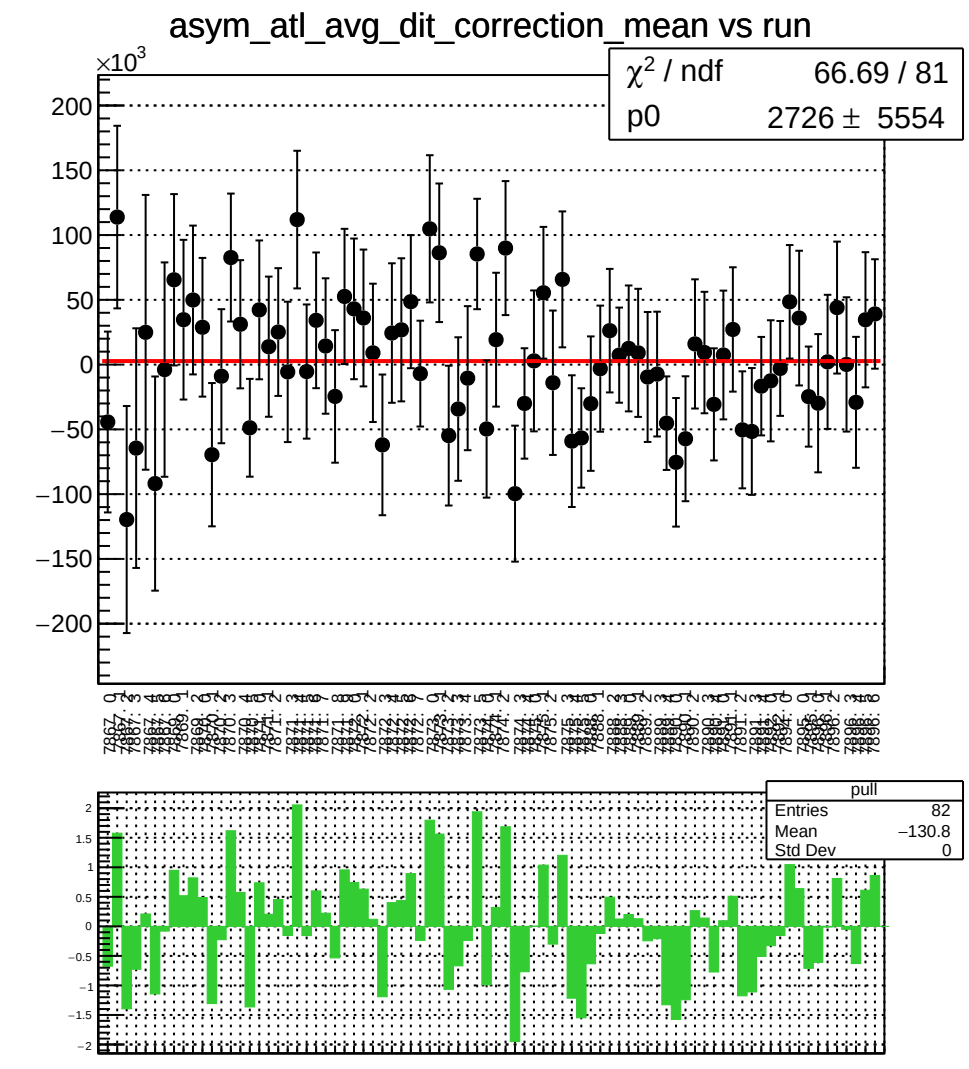

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.97 / 81
p0 2823 ± 5638
pull
Entries 82
Mean −125
Std Dev 0
pull1D
Entries 82
Mean 0.01686
Std Dev 0.9036

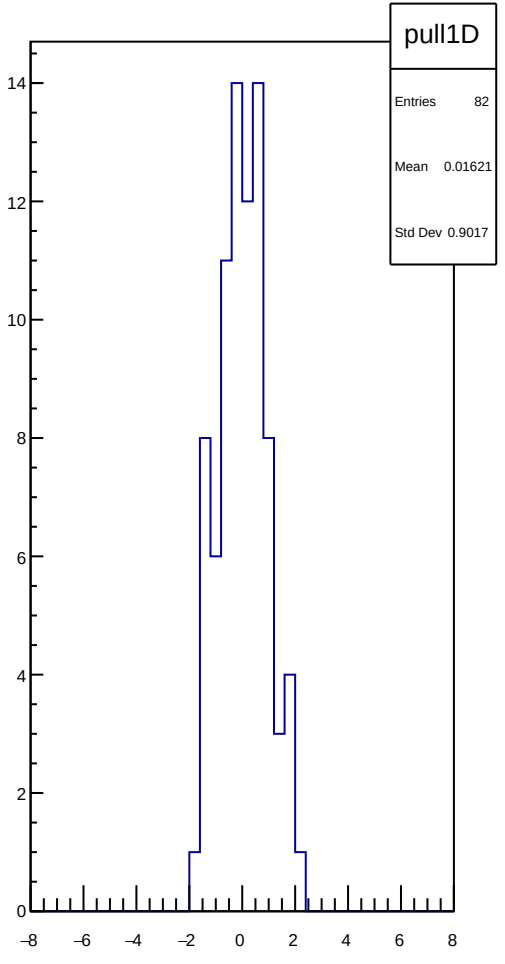

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3.267e+04 / 81
p0 5042 ± 3.986
10000
9000
8000
7000
6000
5000
4000
3000

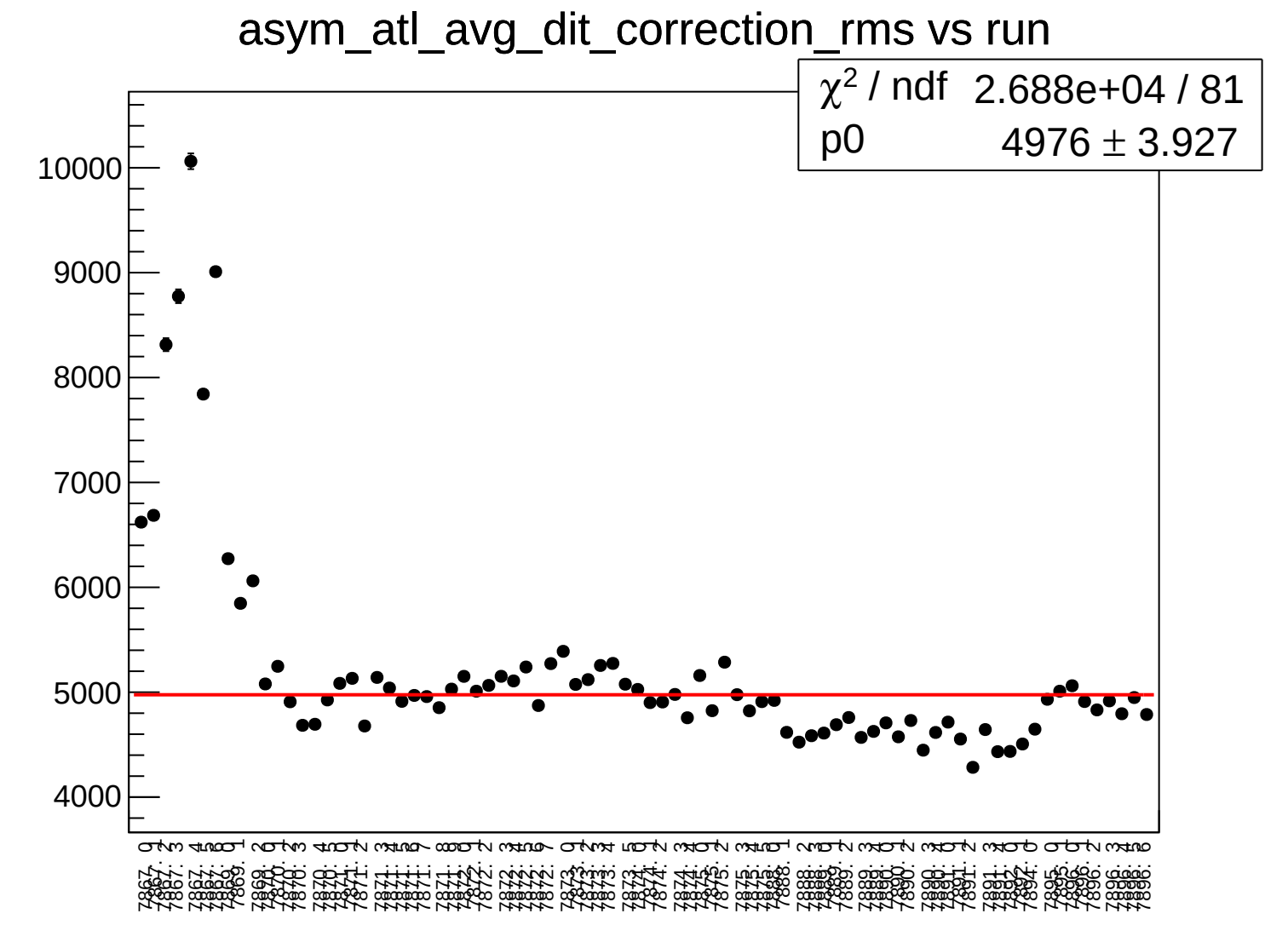

dit_asym_atl_avg_mean vs run
χ² / ndf 60.85 / 81
p0 −2919 ± 1861
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 2023
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

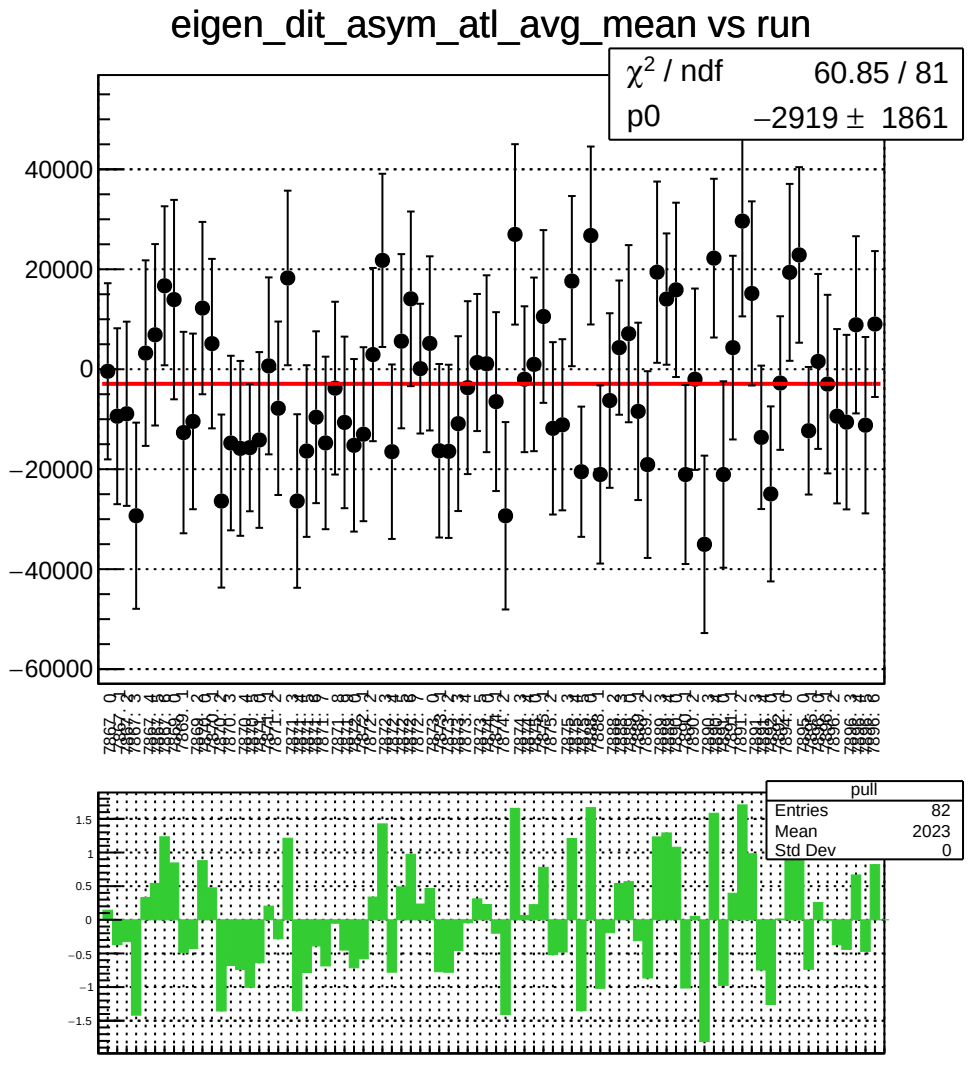

pull1D
Entries 82
Mean 0.001503
Std Dev 0.8614
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

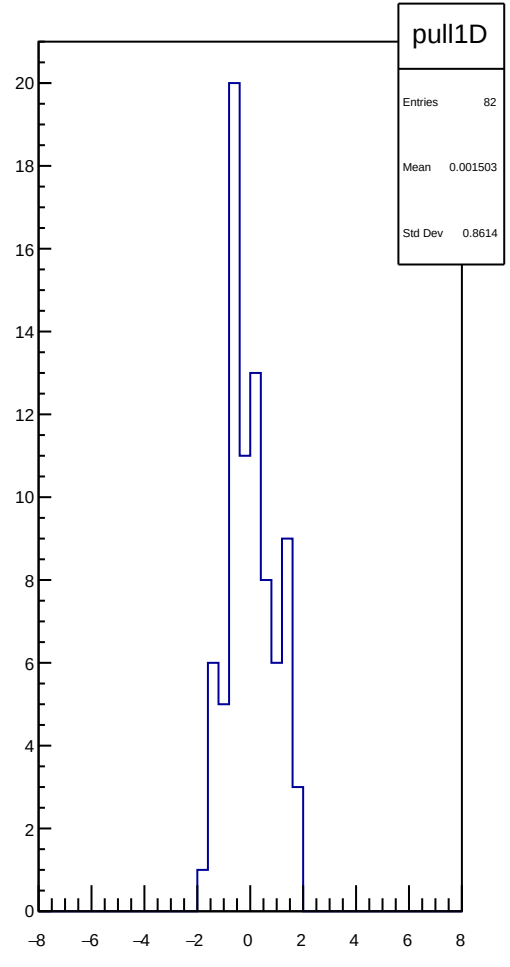

dit_asym_atl_avg_rms vs run
χ² / ndf 1818 / 81
p0 1680 ± 1.316
1950
1900
1850
1800
1750
1700
1650
1600

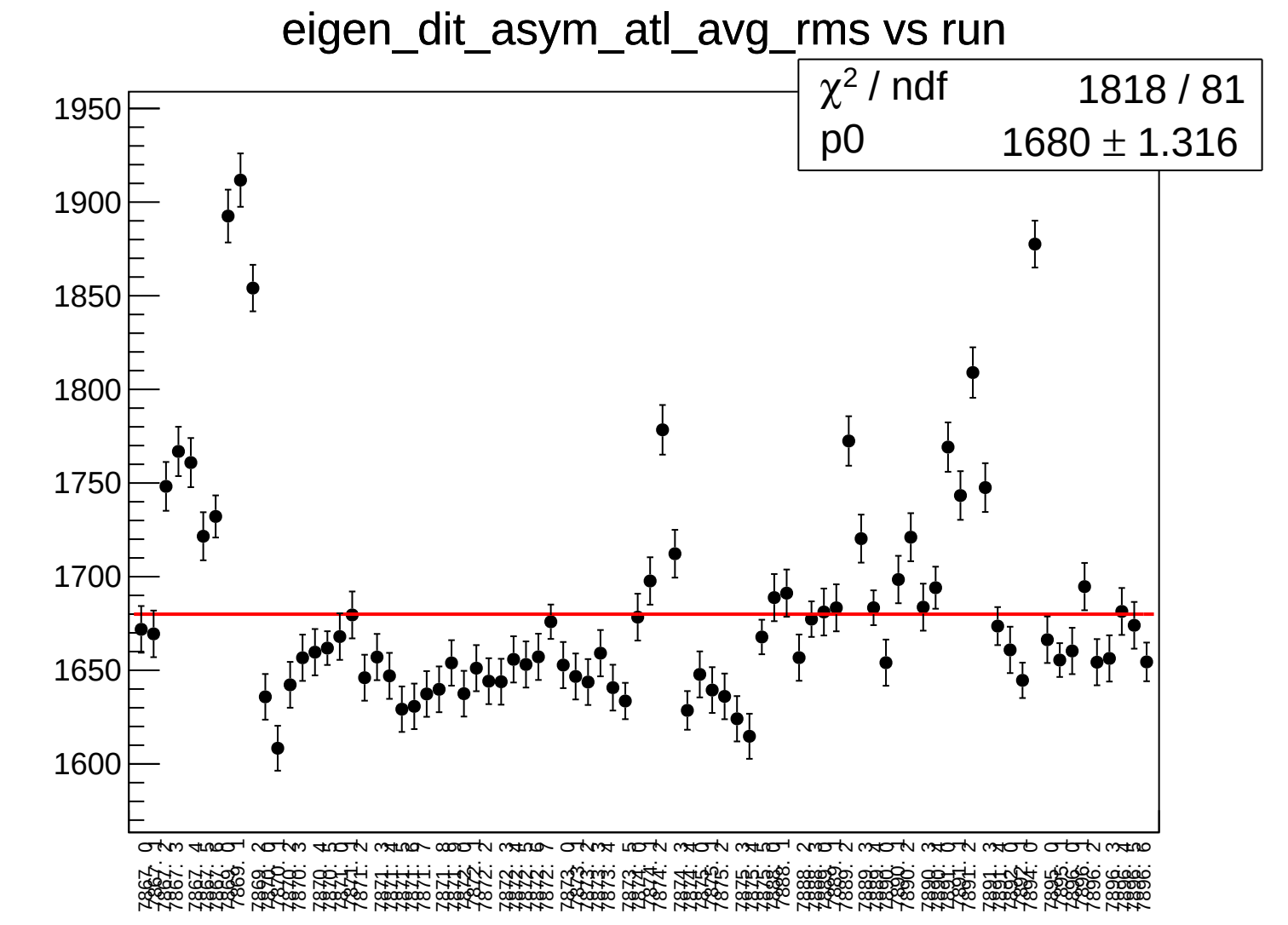

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.69 / 81
p0 2726 ± 5554
pull
Entries 82
Mean −130.8
Std Dev 0

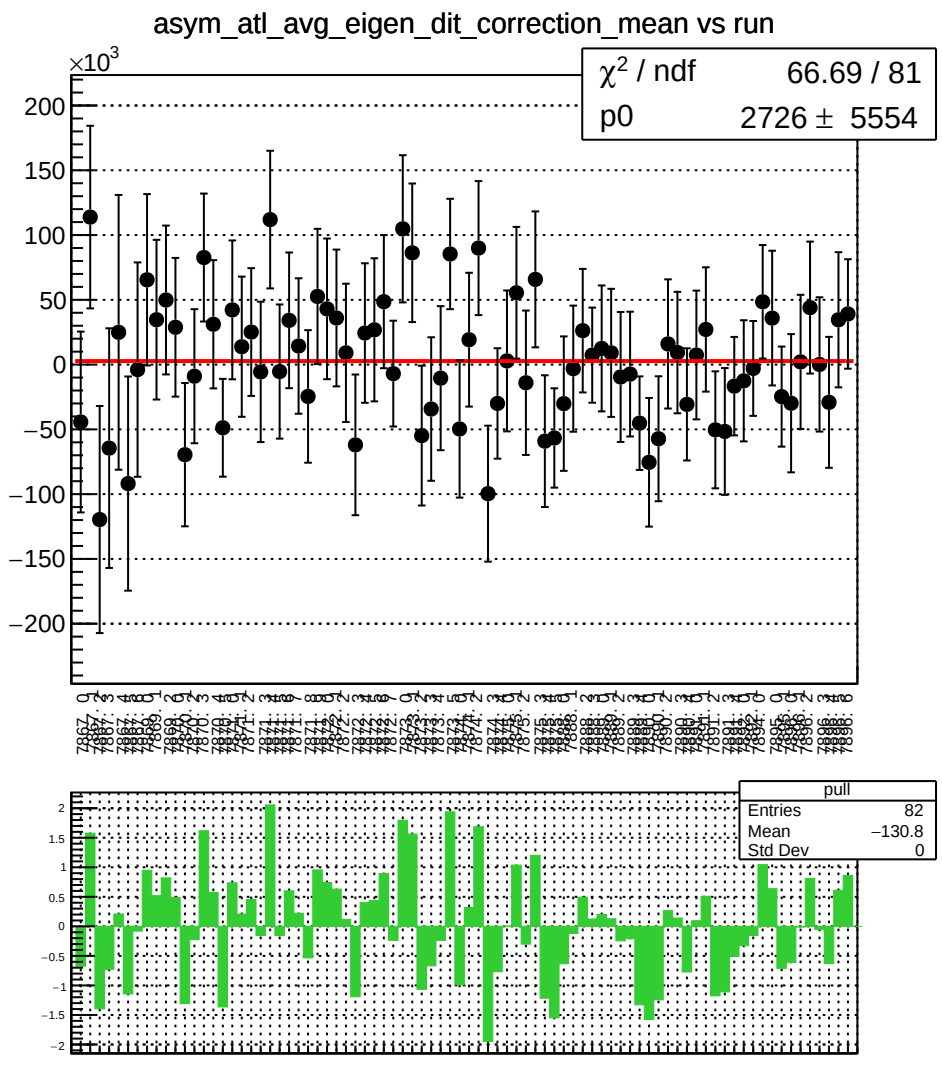

pull1D
Entries 82
Mean 0.01621
Std Dev 0.9017

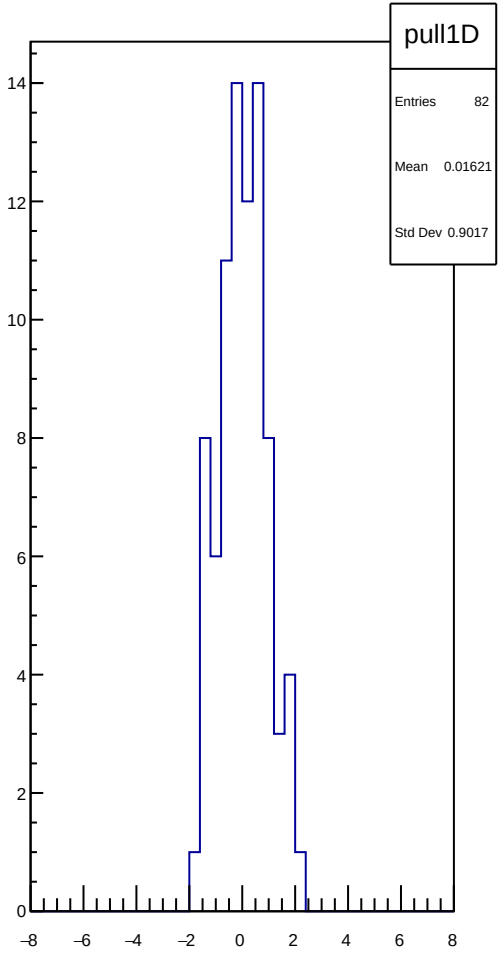

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2.688e+04 / 81
p0 4976 ± 3.927
10000
9000
8000
7000
6000
5000
4000

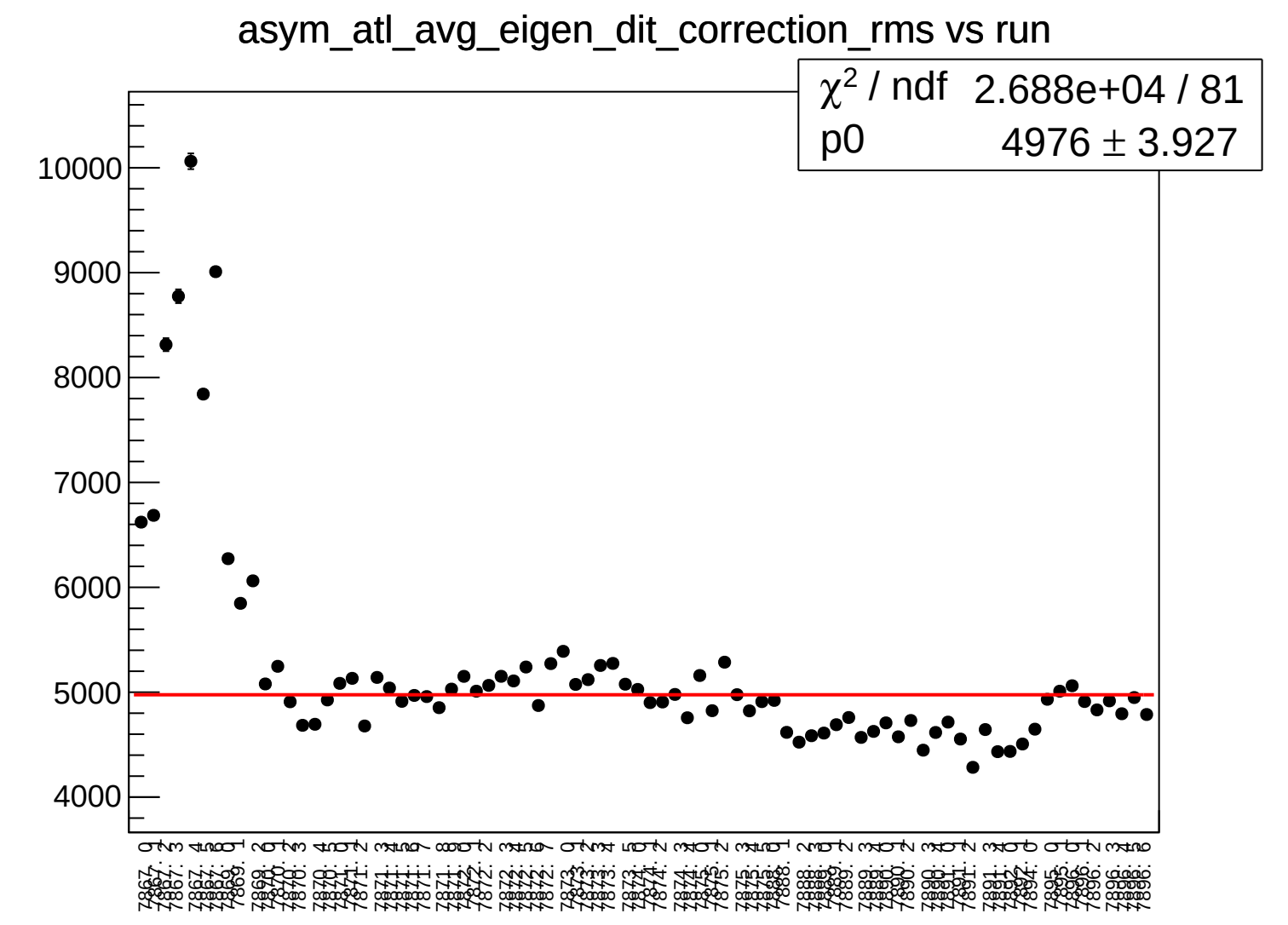

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 60.85 / 81
p0 −2919 ± 1861
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 2023
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

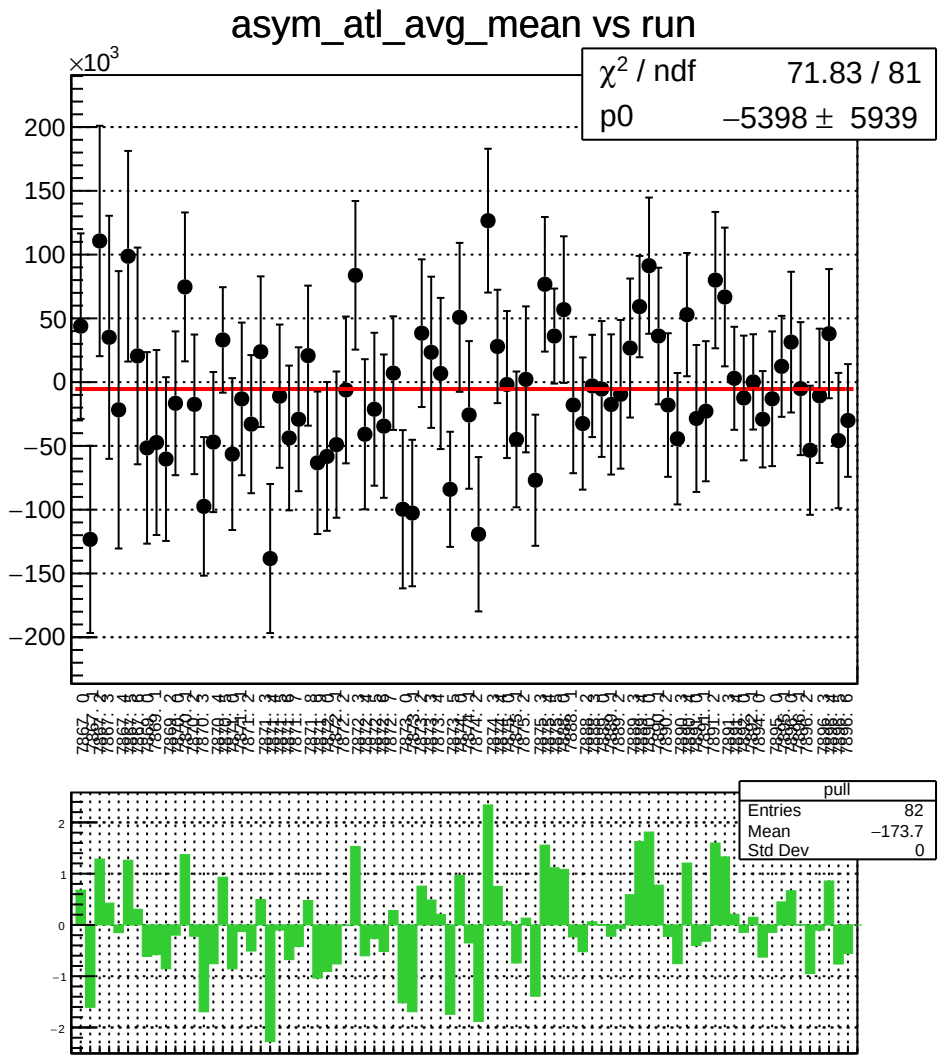

pull1D
Entries 82
Mean 0.001503
Std Dev 0.8614
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

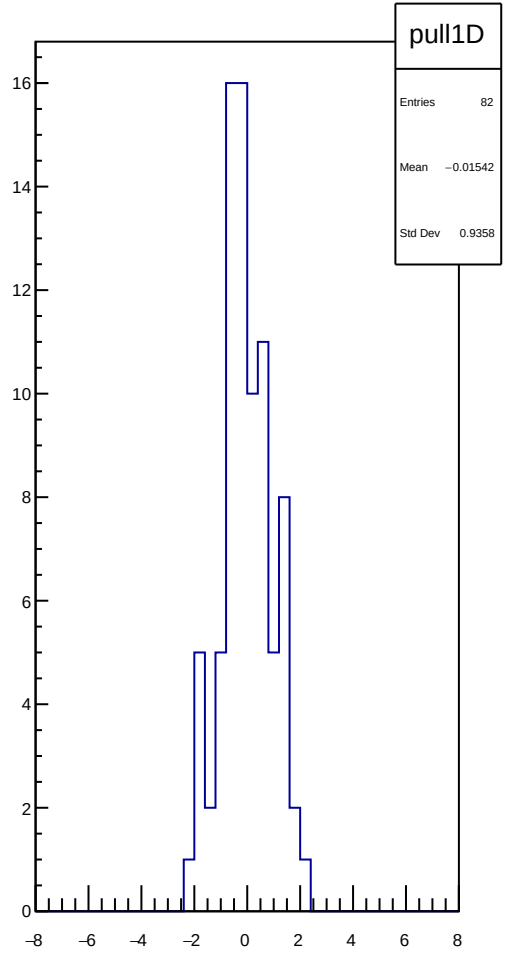

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 1818 / 81
p0 1680 ± 1.316
1950
1900
1850
1800
1750
1700
1650
1600

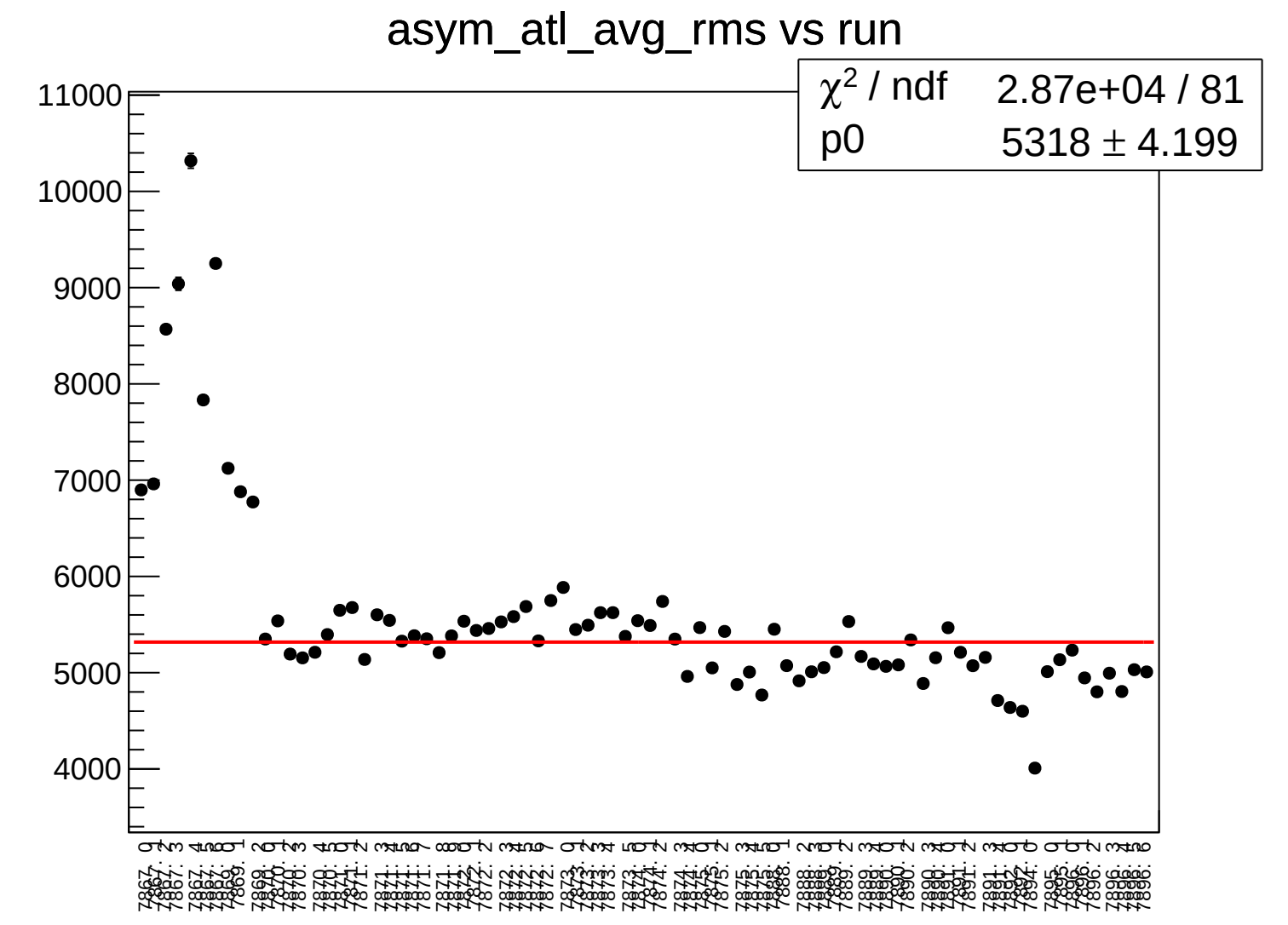

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.69 / 81
p0 2726 ± 5554
pull
Entries 82
Mean −130.8
Std Dev 0

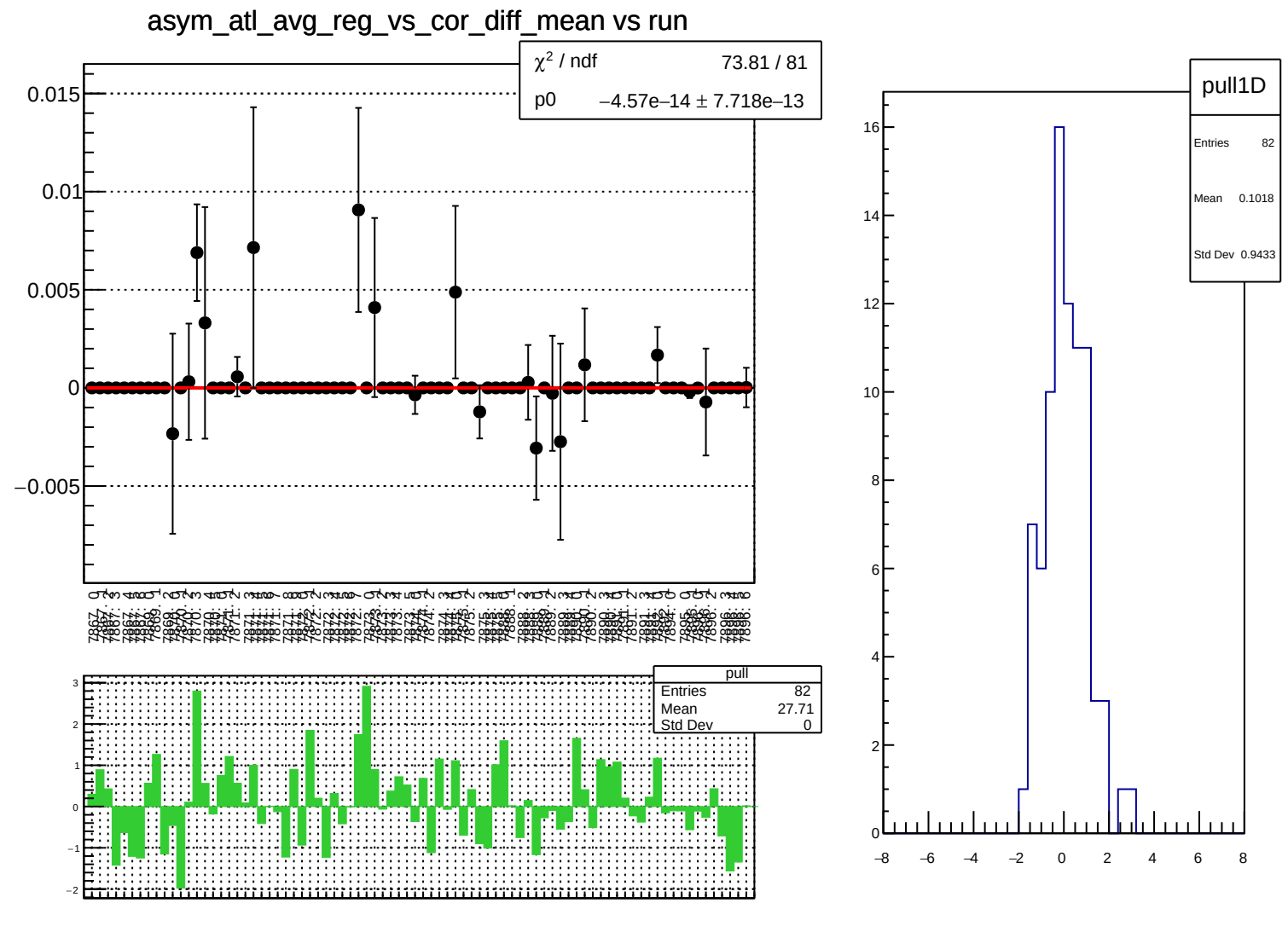

pull1D
Entries 82
Mean 0.01621
Std Dev 0.9017

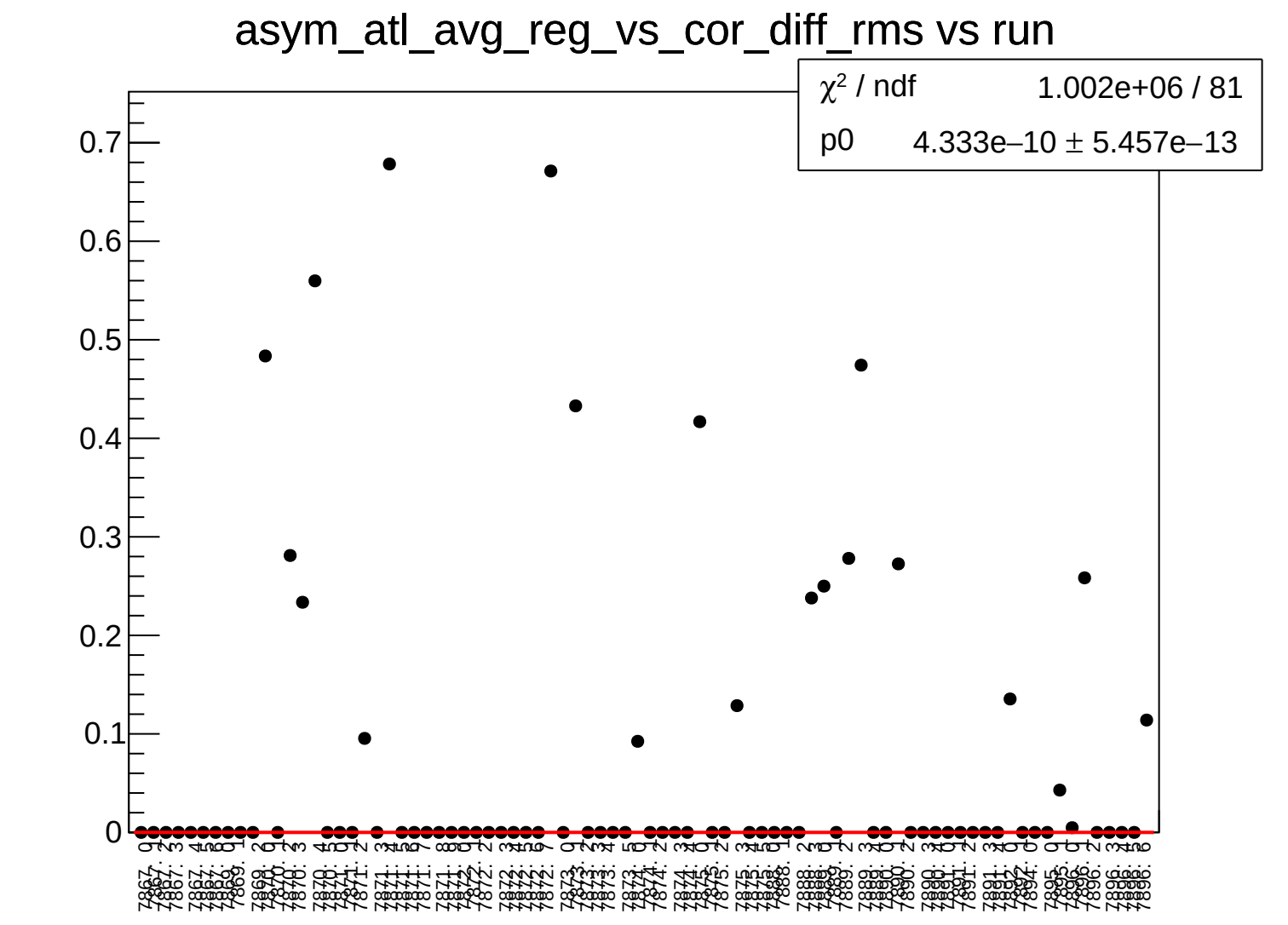

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.688e+04 / 81
p0 4976 ± 3.927
10000
9000
8000
7000
6000
5000
4000

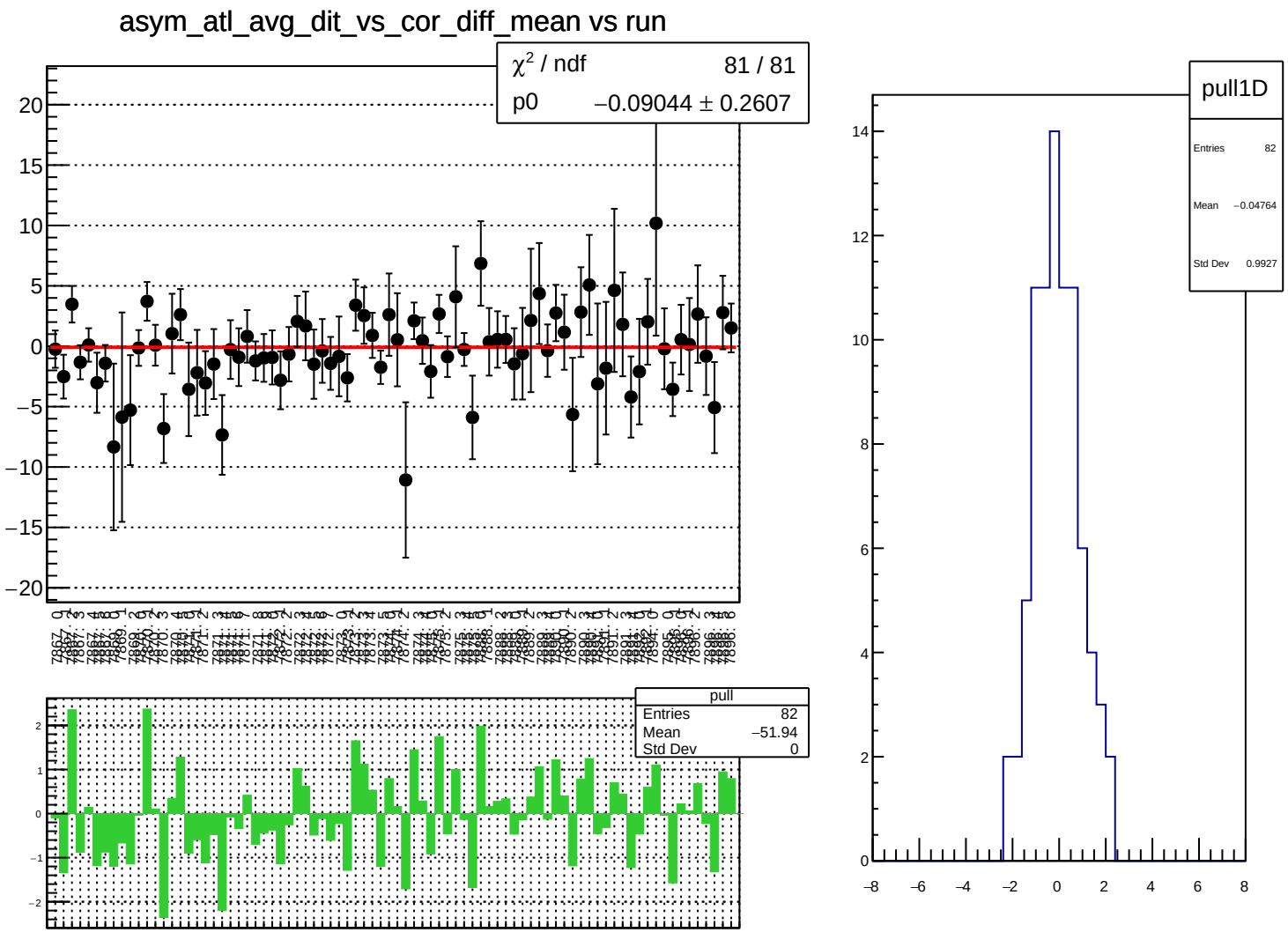

asym_atl_avg_mean vs run
×10^3
χ² / ndf 71.83 / 81
p0 −5398 ± 5939
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −173.7
Std Dev 0
2
1
0
−1
−2

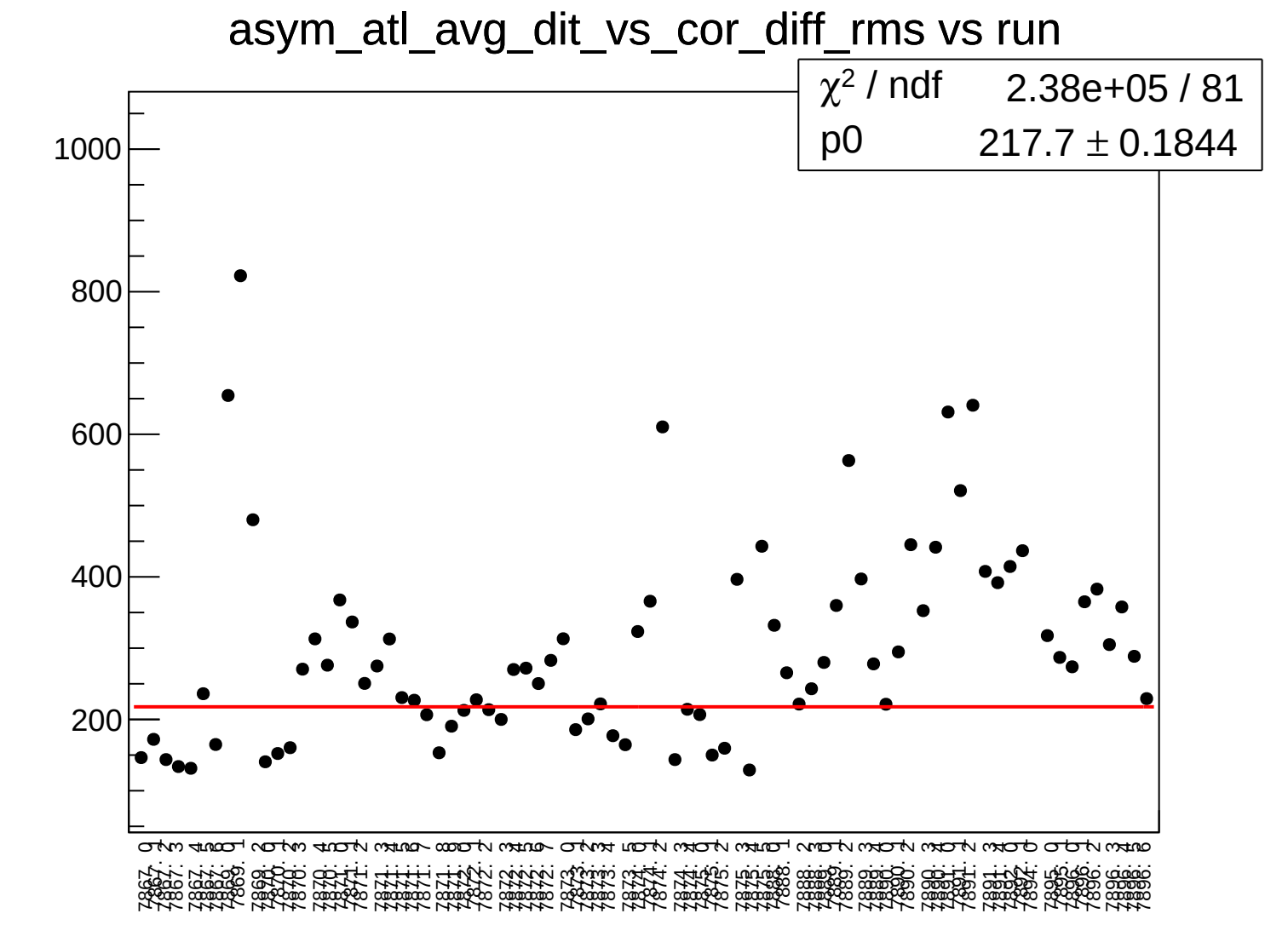

pull1D
Entries 82
Mean −0.01542
Std Dev 0.9358
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

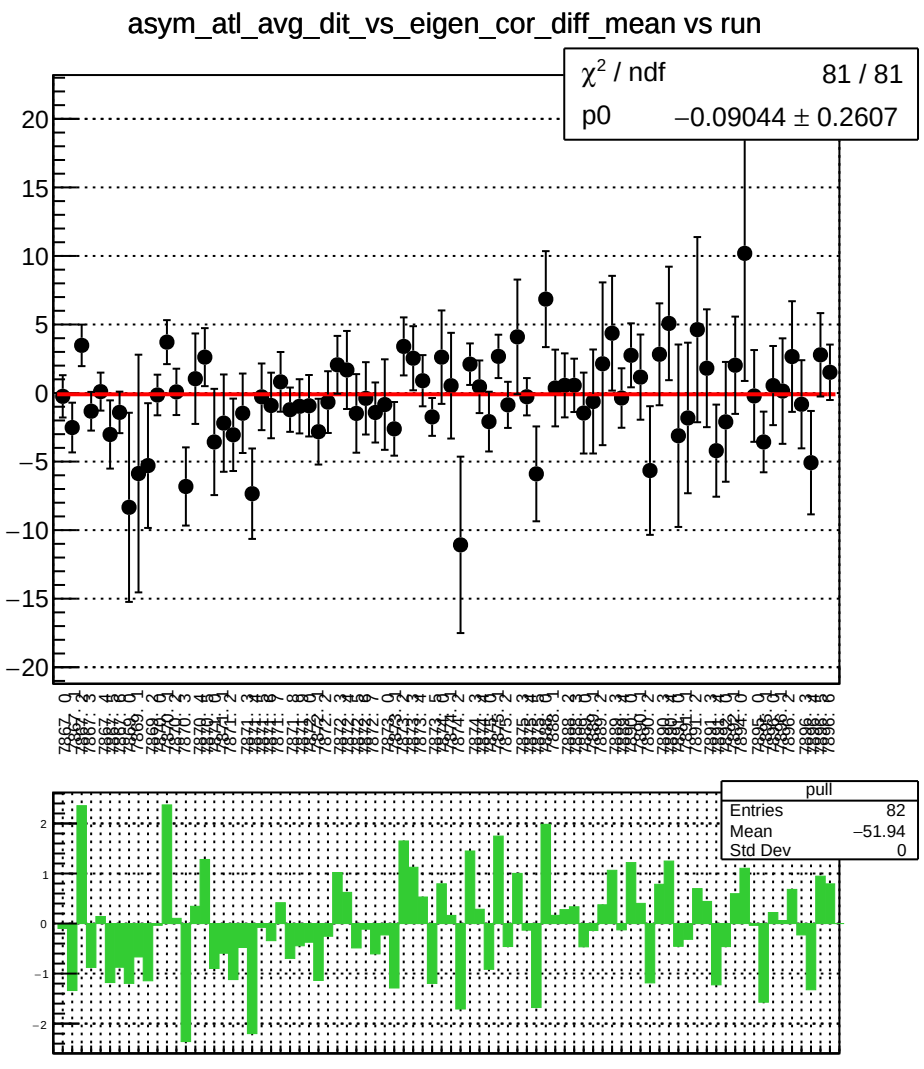

asym_atl_avg_rms vs run
χ^2 / ndf 2.87e+04 / 81
p0 5318 ± 4.199
11000
10000
9000
8000
7000
6000
5000
4000

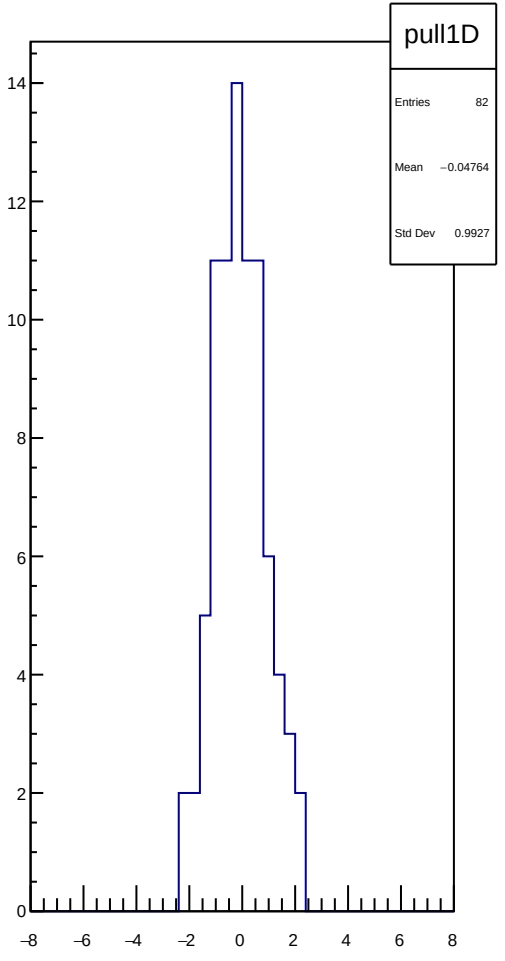

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.81 / 81
p0 −4.57e−14 ± 7.718e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 82
Mean 27.71
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.1018
Std Dev 0.9433
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

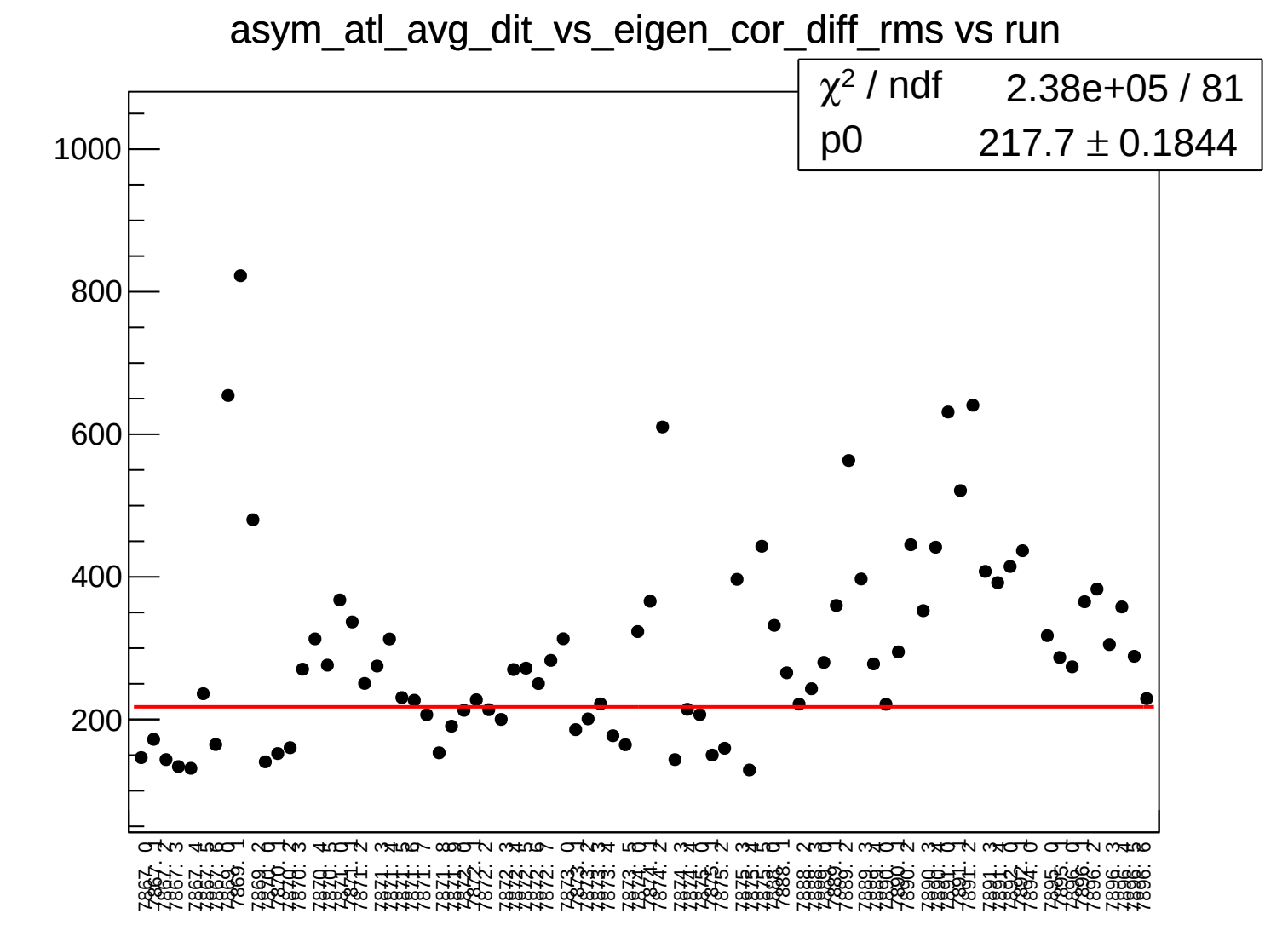

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 81
p0 4.333e−10 ± 5.457e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

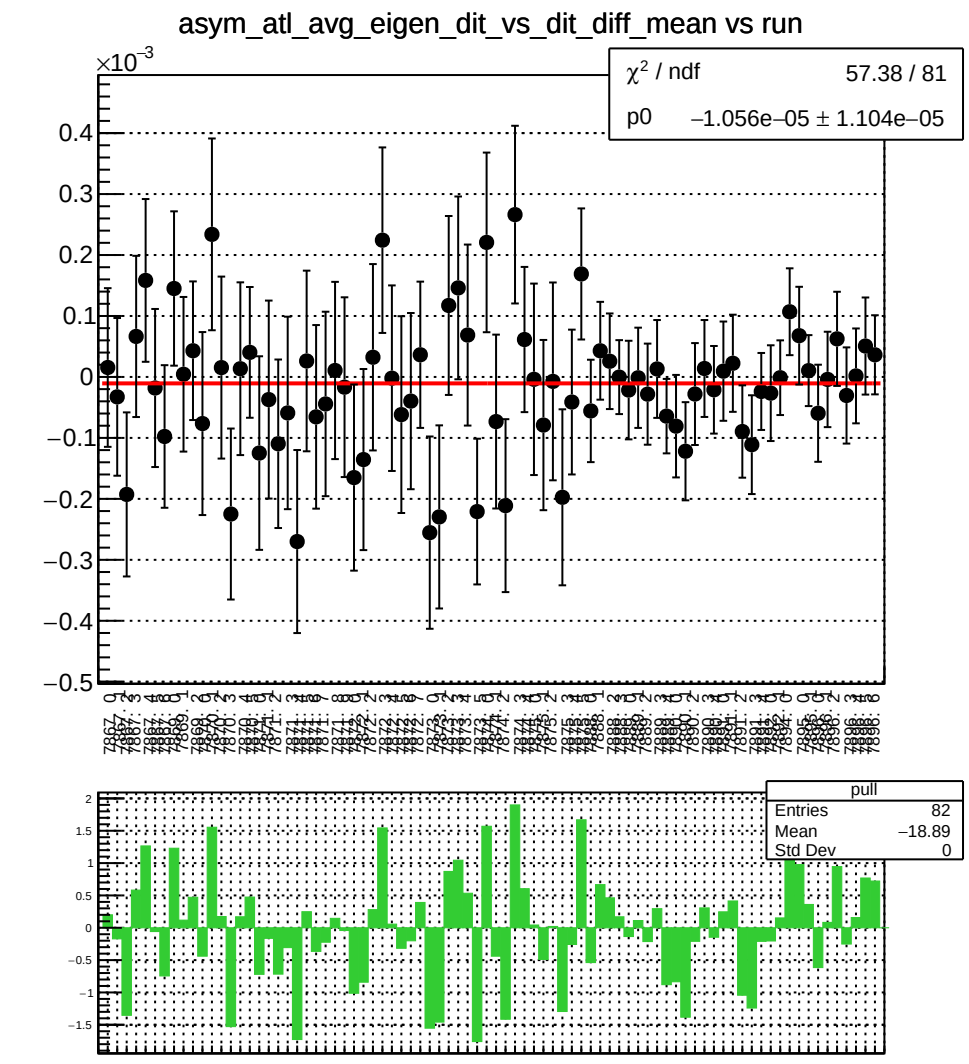

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81 / 81
p0 −0.09044 ± 0.2607
pull
Entries 82
Mean −51.94
Std Dev 0
pull1D
Entries 82
Mean −0.04764
Std Dev 0.9927

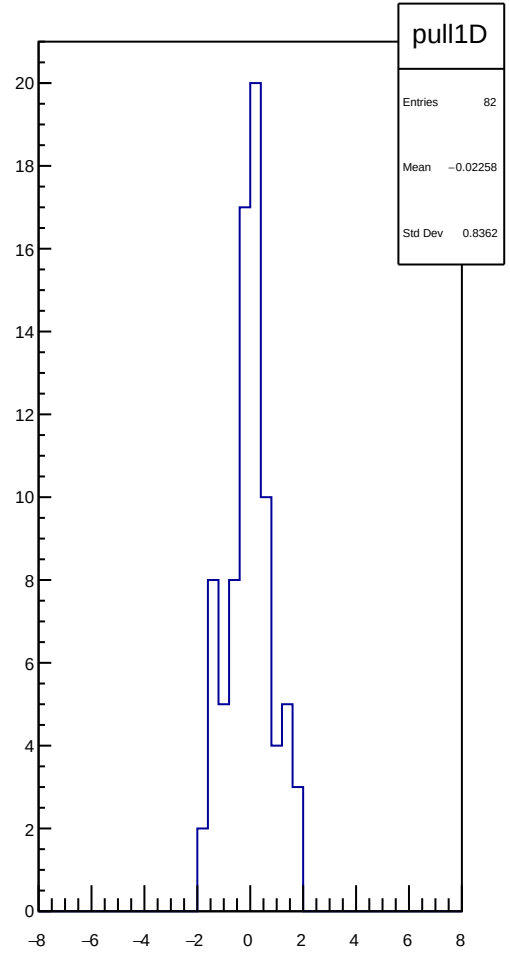

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.38e+05 / 81
p0 217.7 ± 0.1844
1000
800
600
400
200

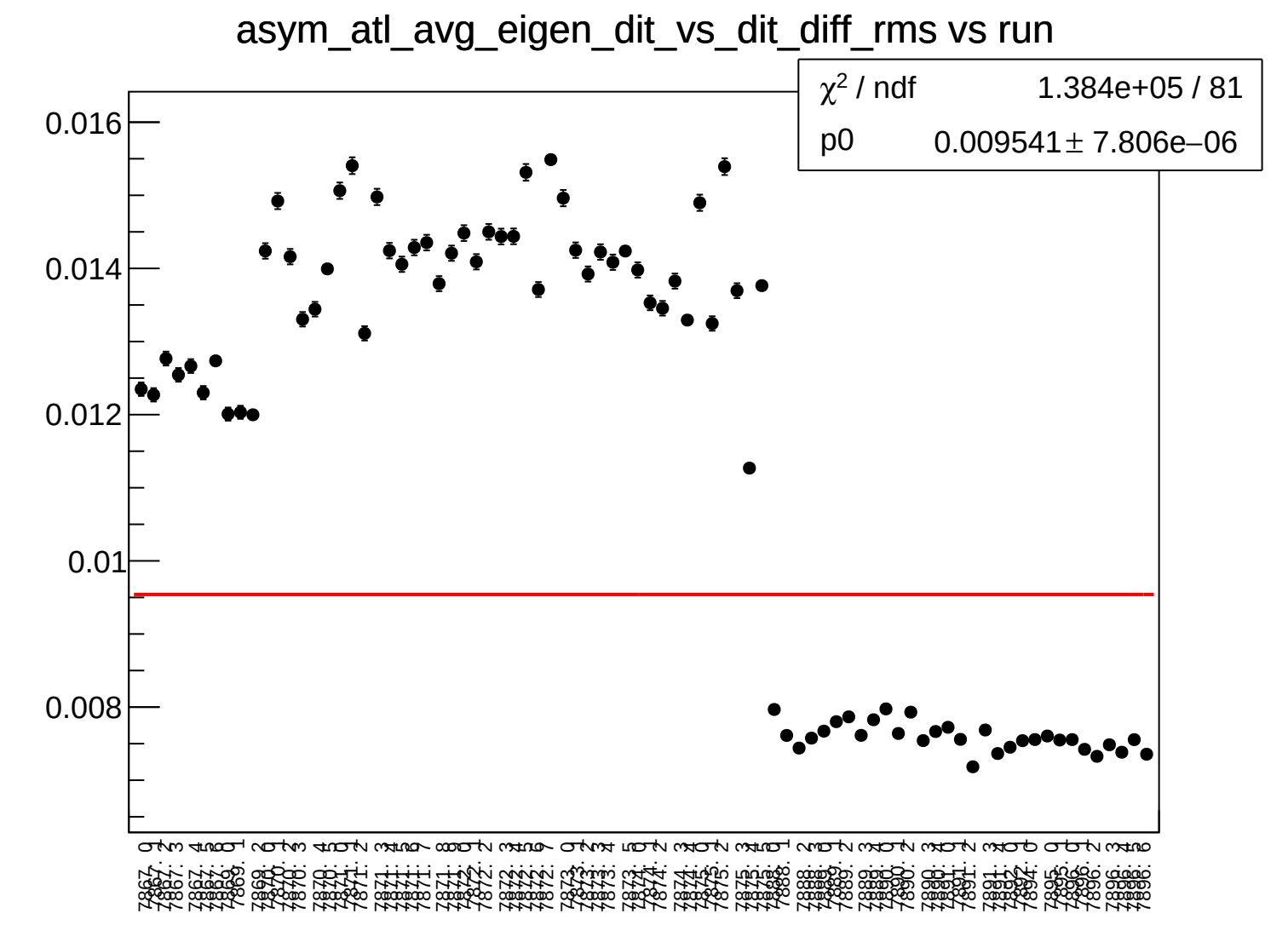

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81 / 81
p0 −0.09044 ± 0.2607
pull
Entries 82
Mean −51.94
Std Dev 0

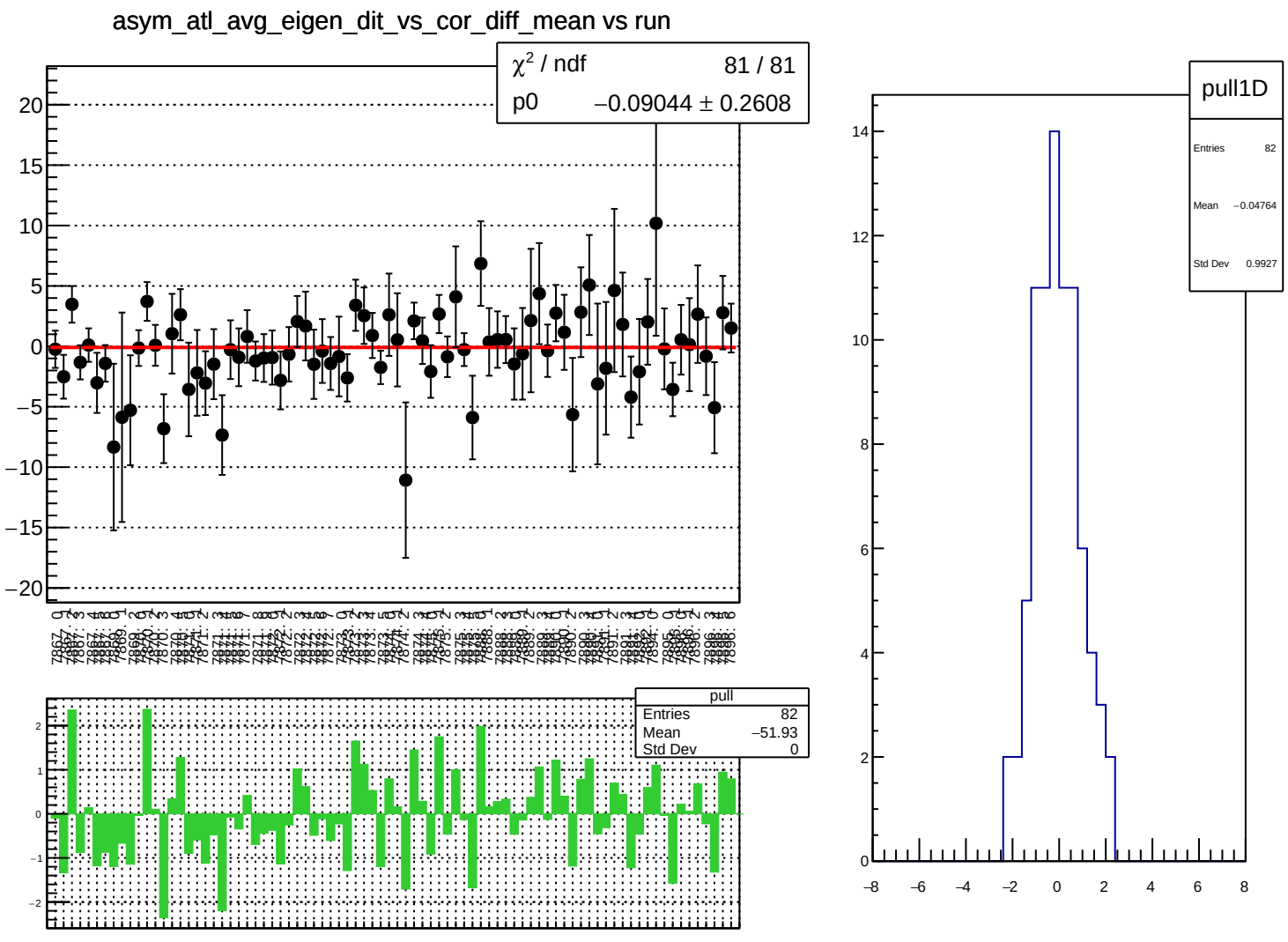

pull1D
Entries 82
Mean −0.04764
Std Dev 0.9927

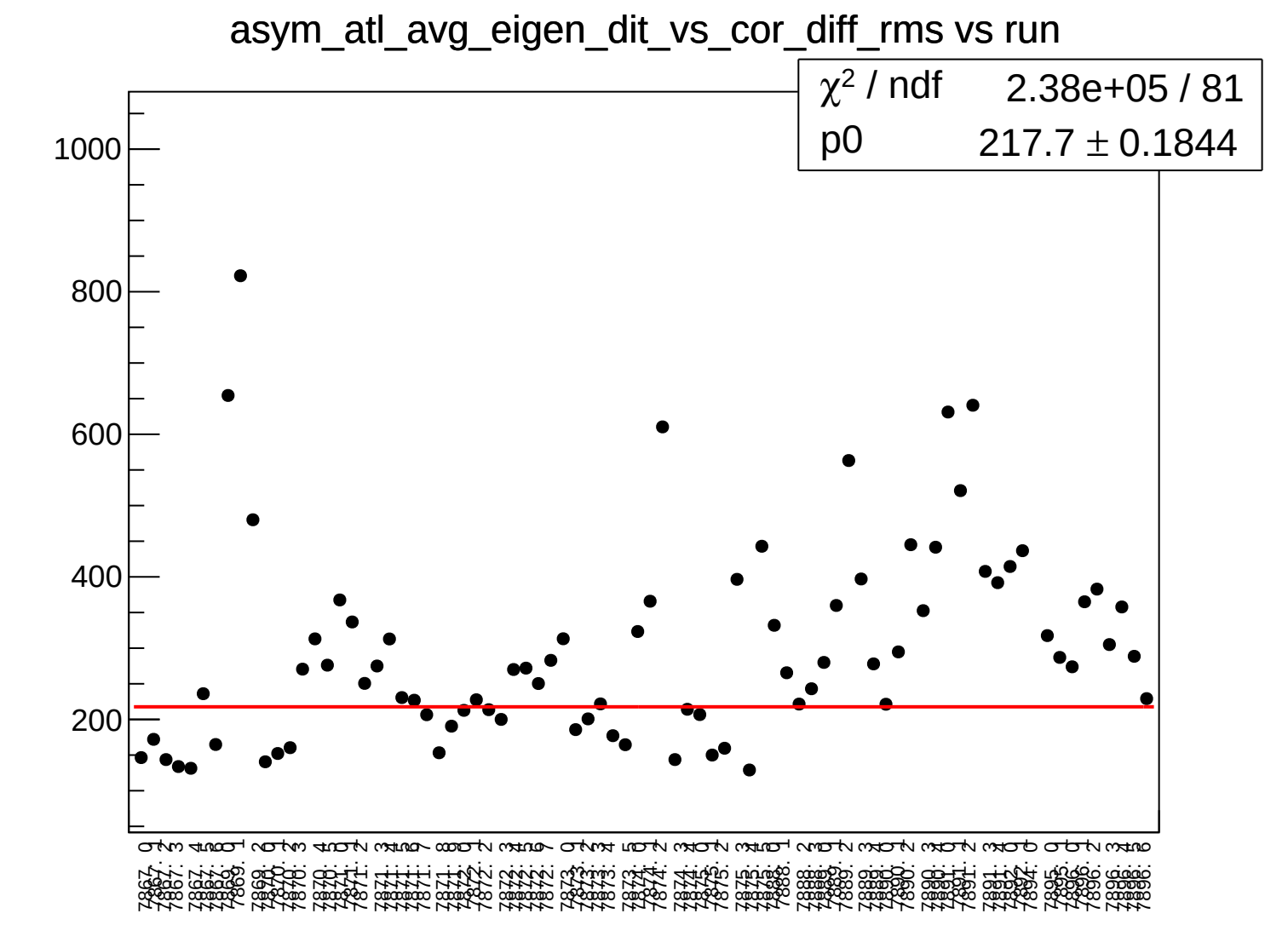

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.38e+05 / 81
p0 217.7 ± 0.1844
1000
800
600
400
200

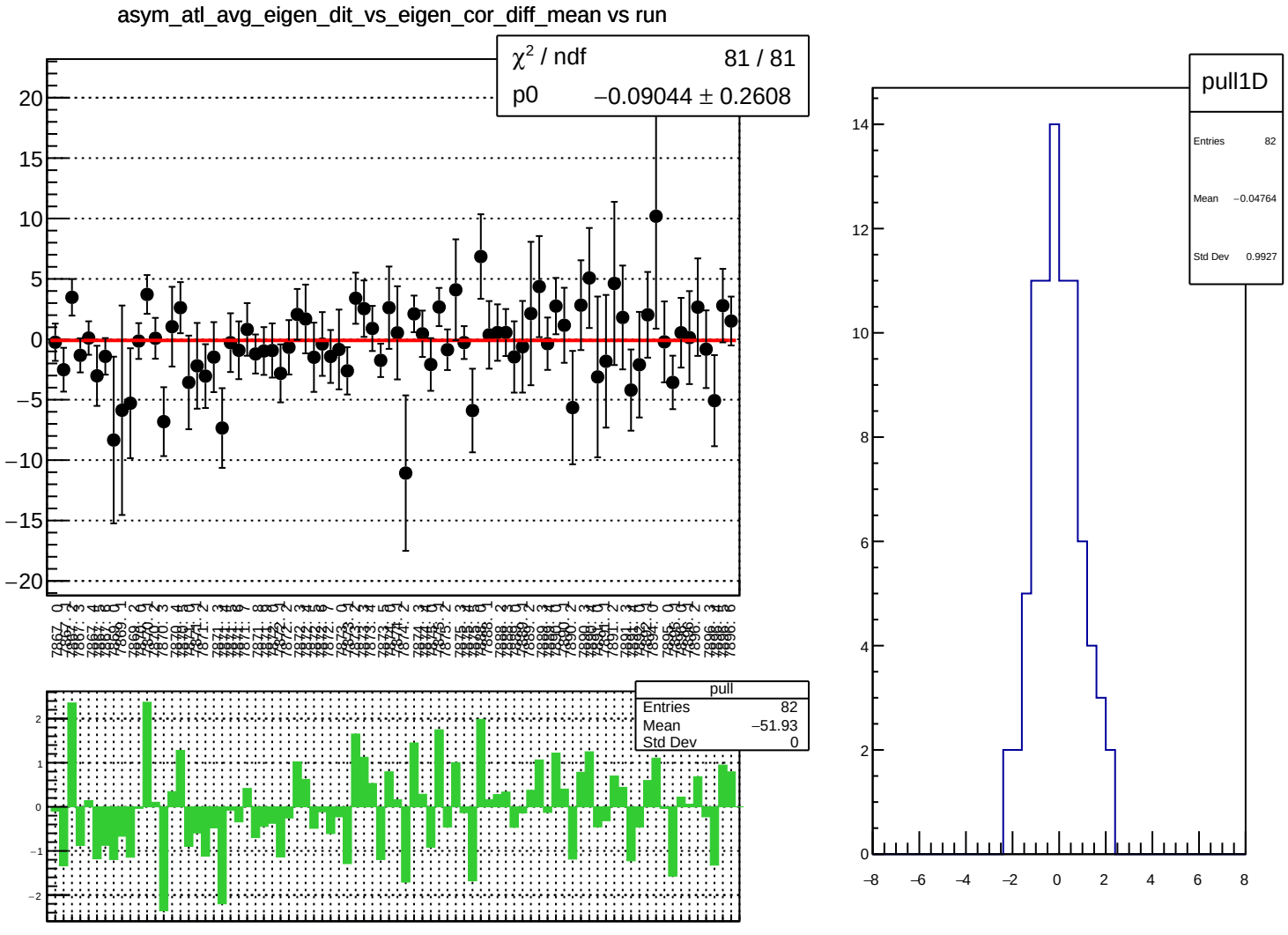

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 57.38 / 81
p0 −1.056e−05 ± 1.104e−05
pull
Entries 82
Mean −18.89
Std Dev 0

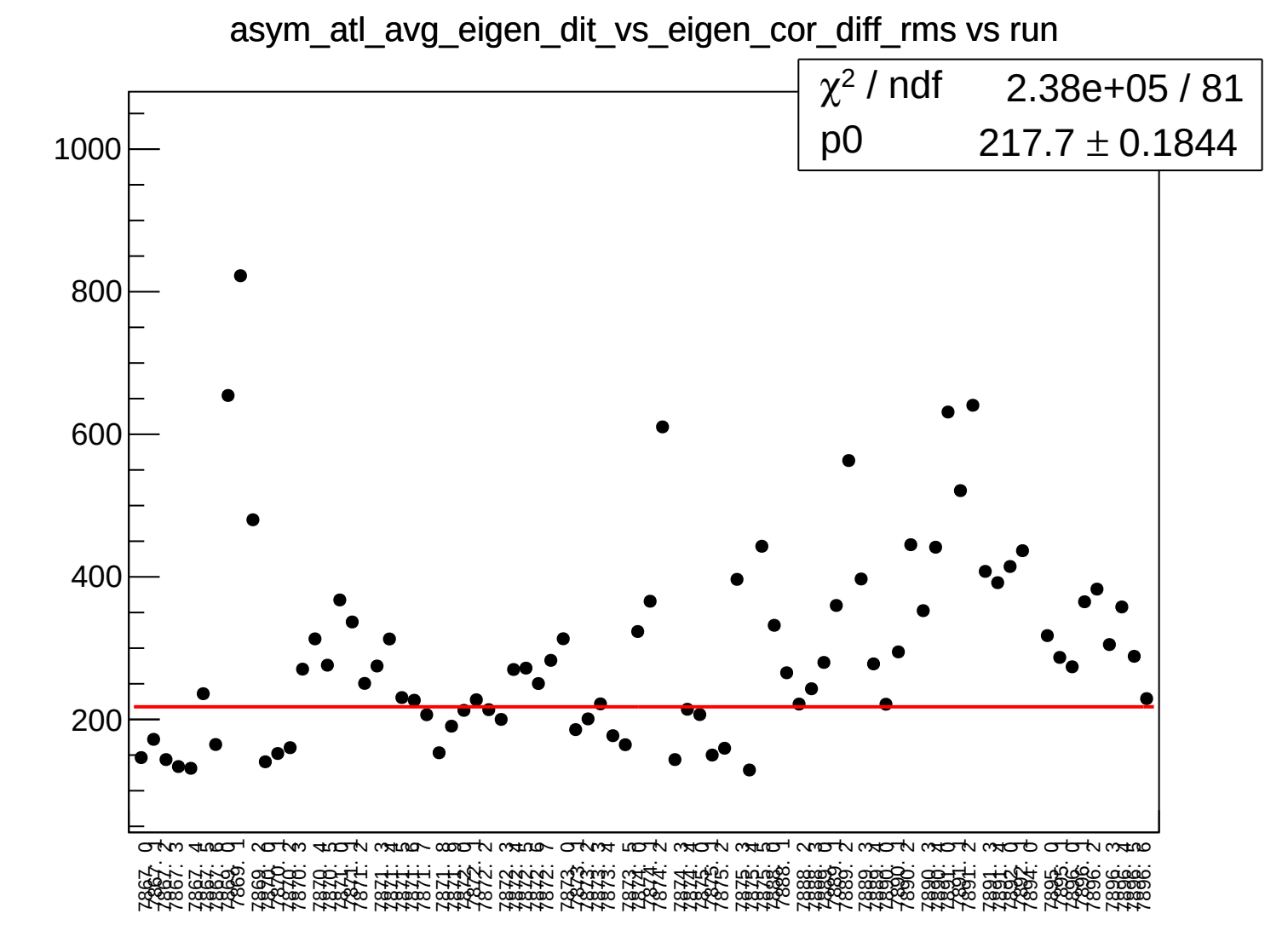

pull1D
Entries 82
Mean −0.02258
Std Dev 0.8362

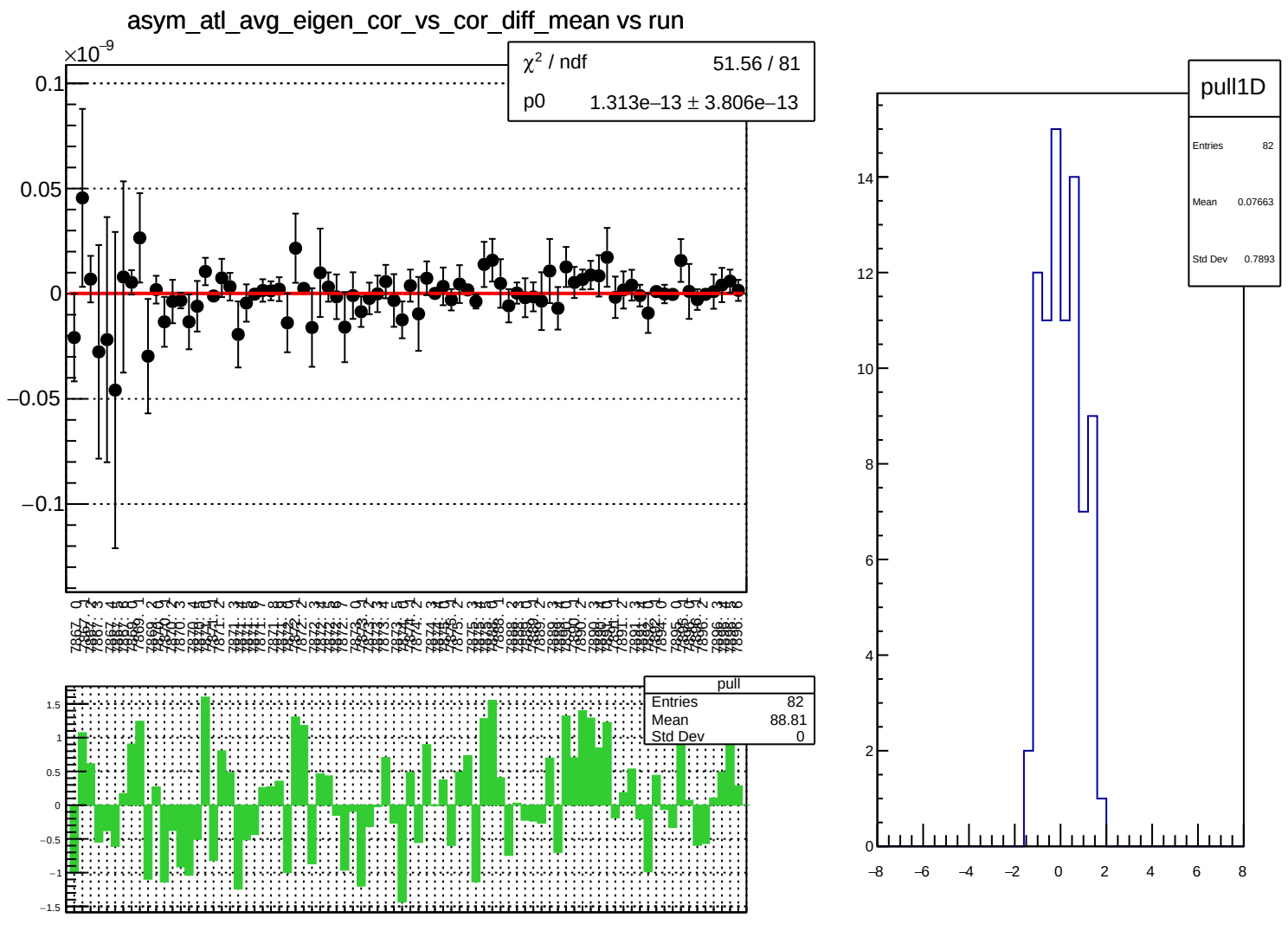

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.384e+05 / 81
p0 0.009541 ± 7.806e−06
0.016
0.014
0.012
0.01
0.008

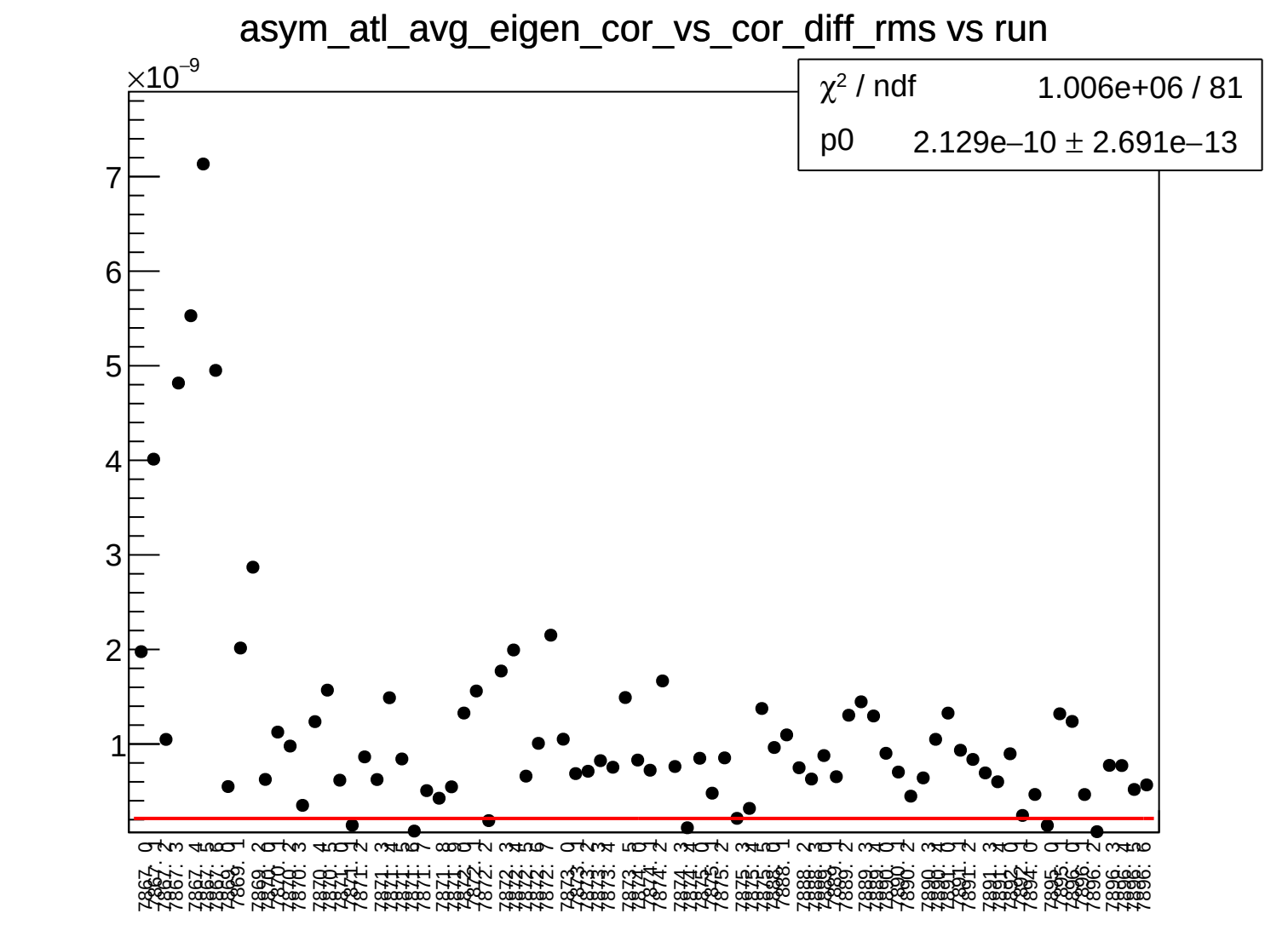

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81 / 81
p0 −0.09044 ± 0.2608
pull
Entries 82
Mean −51.93
Std Dev 0
pull1D
Entries 82
Mean −0.04764
Std Dev 0.9927

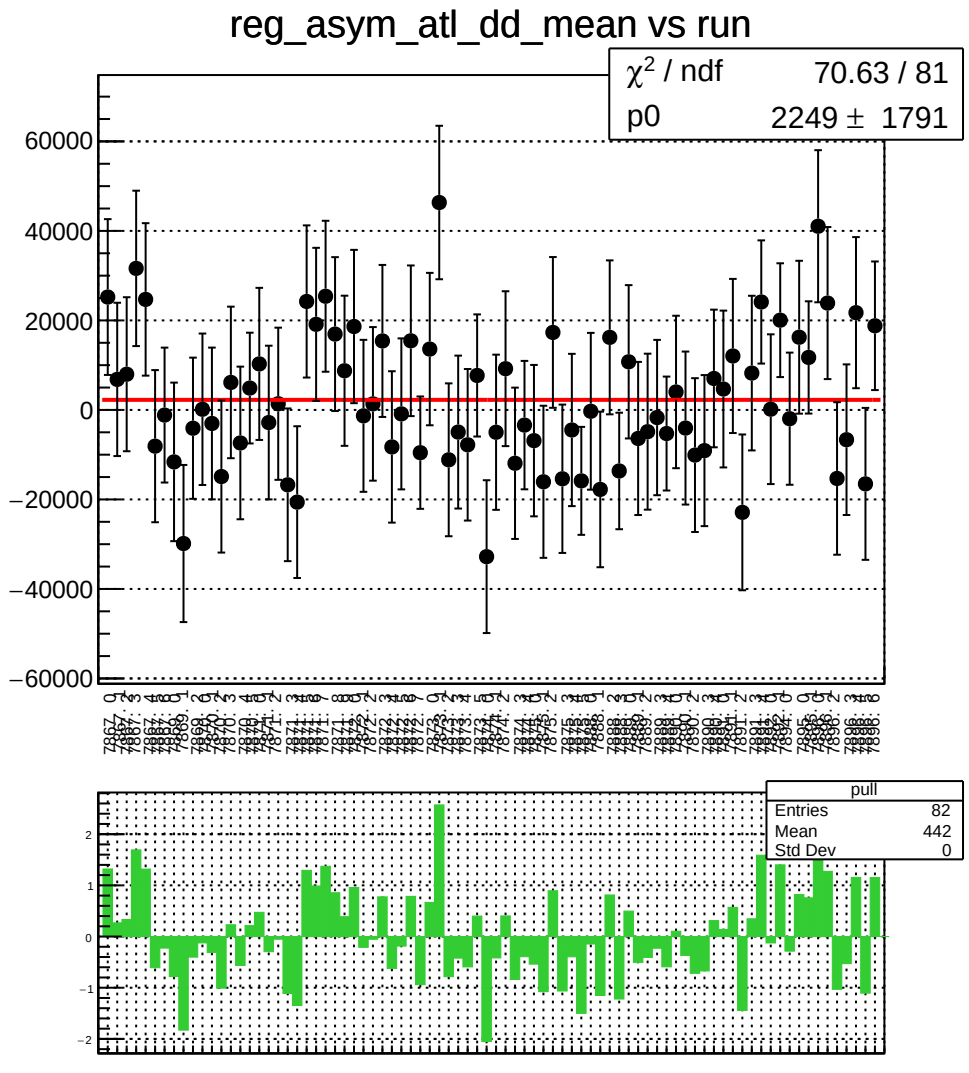

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.38e+05 / 81
p0 217.7 ± 0.1844
1000
800
600
400
200

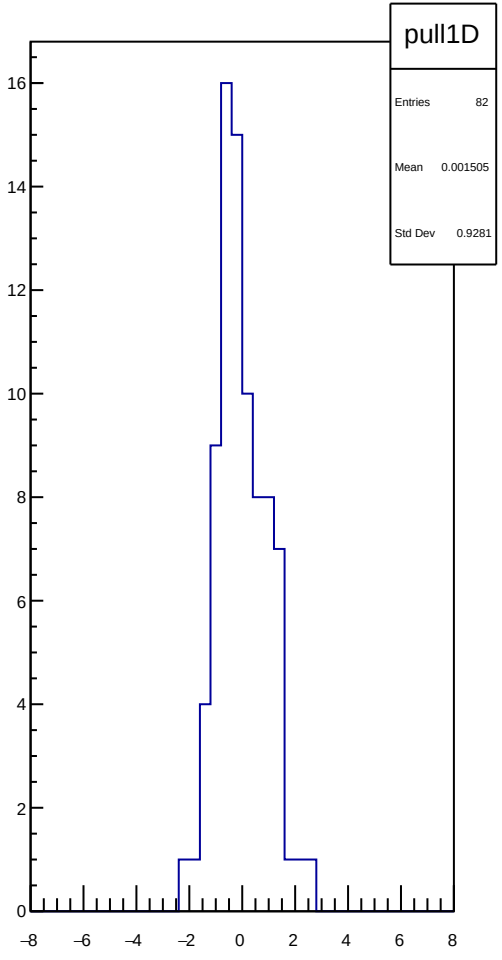

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81 / 81
p0 −0.09044 ± 0.2608
pull
Entries 82
Mean −51.93
Std Dev 0
pull1D
Entries 82
Mean −0.04764
Std Dev 0.9927

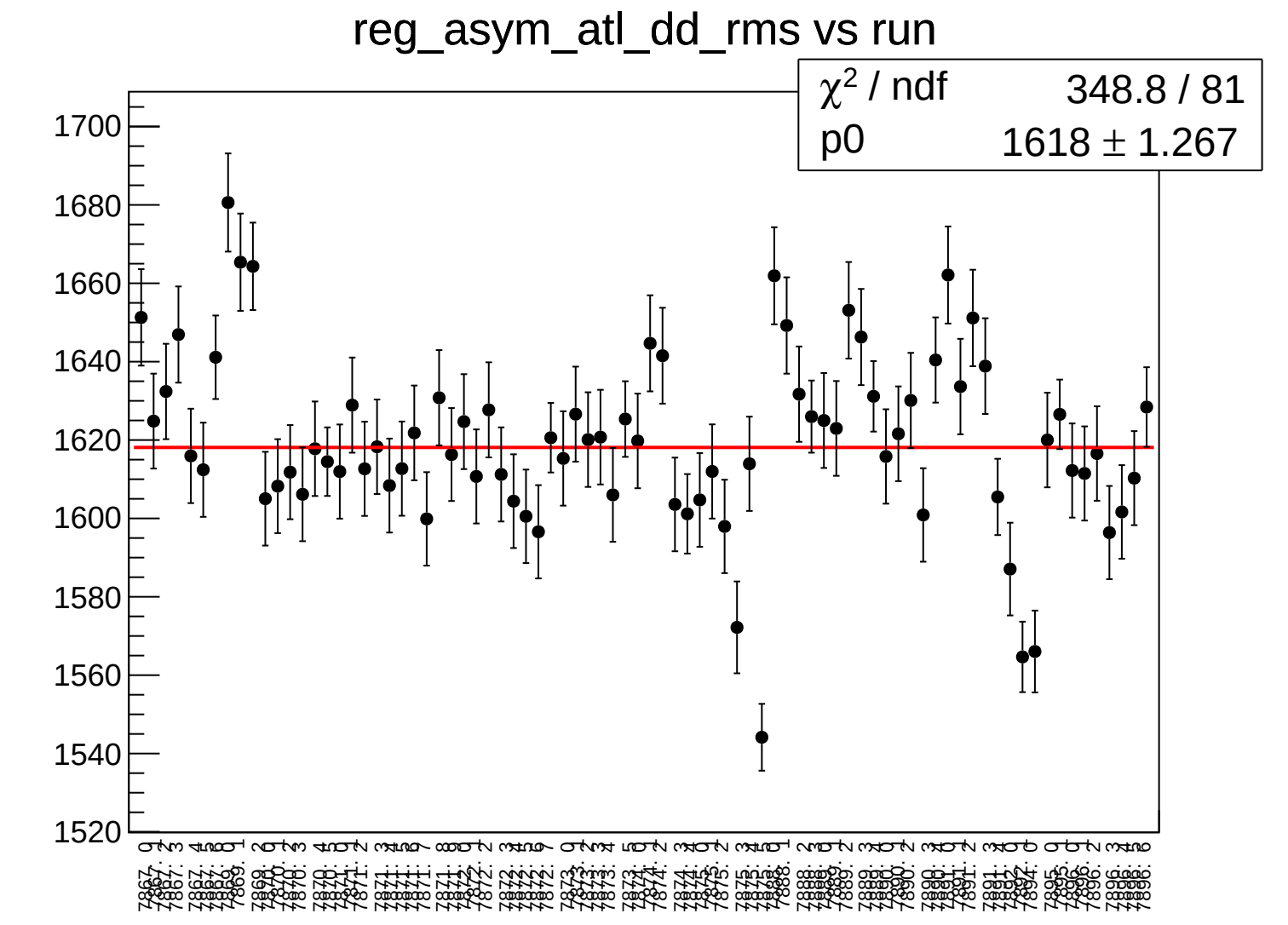

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.38e+05 / 81
p0 217.7 ± 0.1844
1000
800
600
400
200

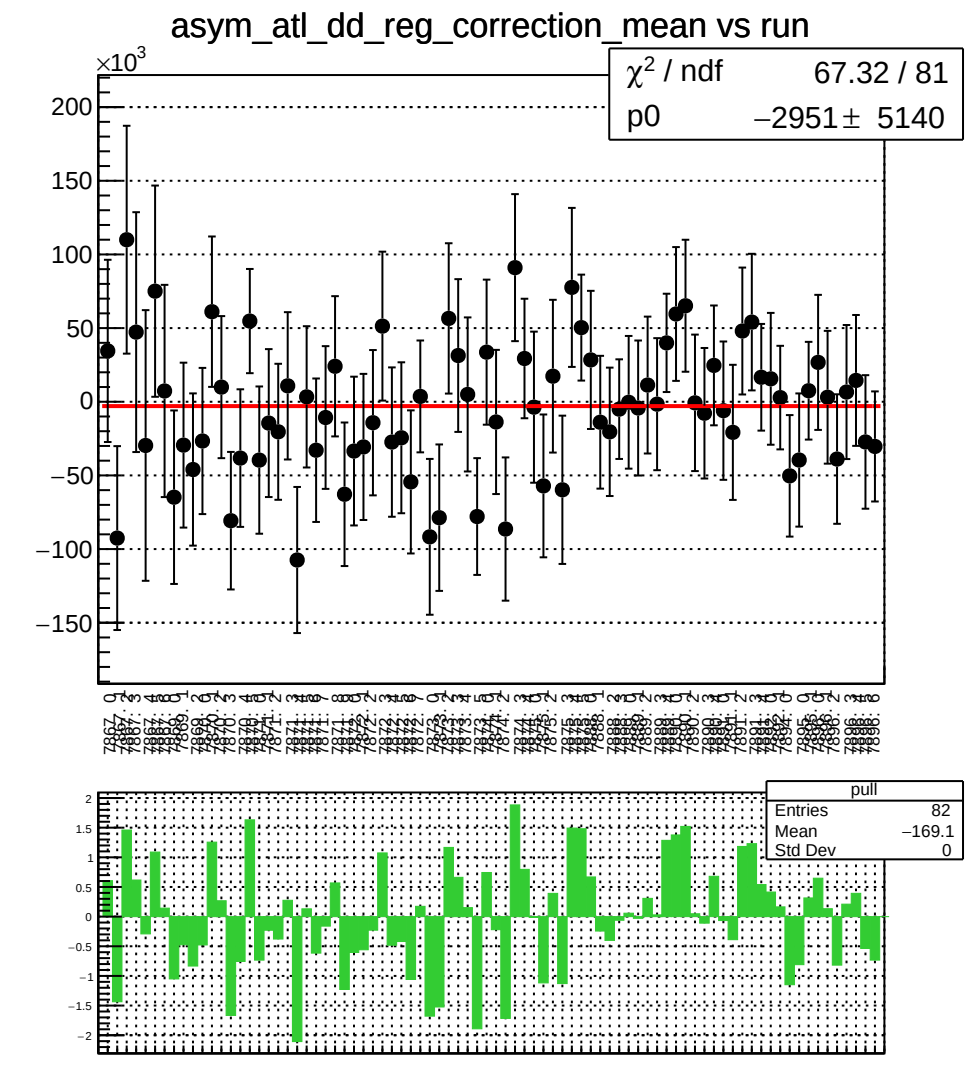

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 51.56 / 81
p0 1.313e−13 ± 3.806e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 88.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.07663
Std Dev 0.7893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

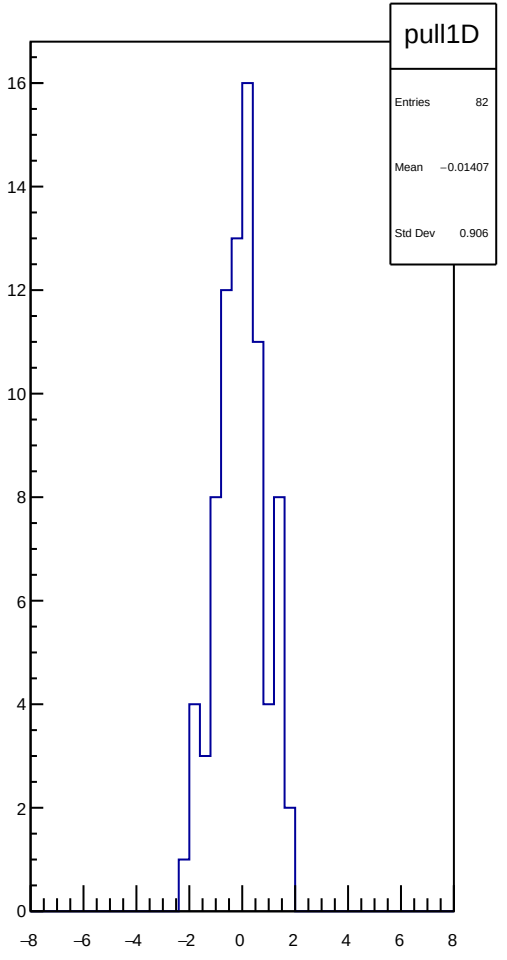

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.006e+06 / 81
p0 2.129e−10 ± 2.691e−13
7
6
5
4
3
2
1

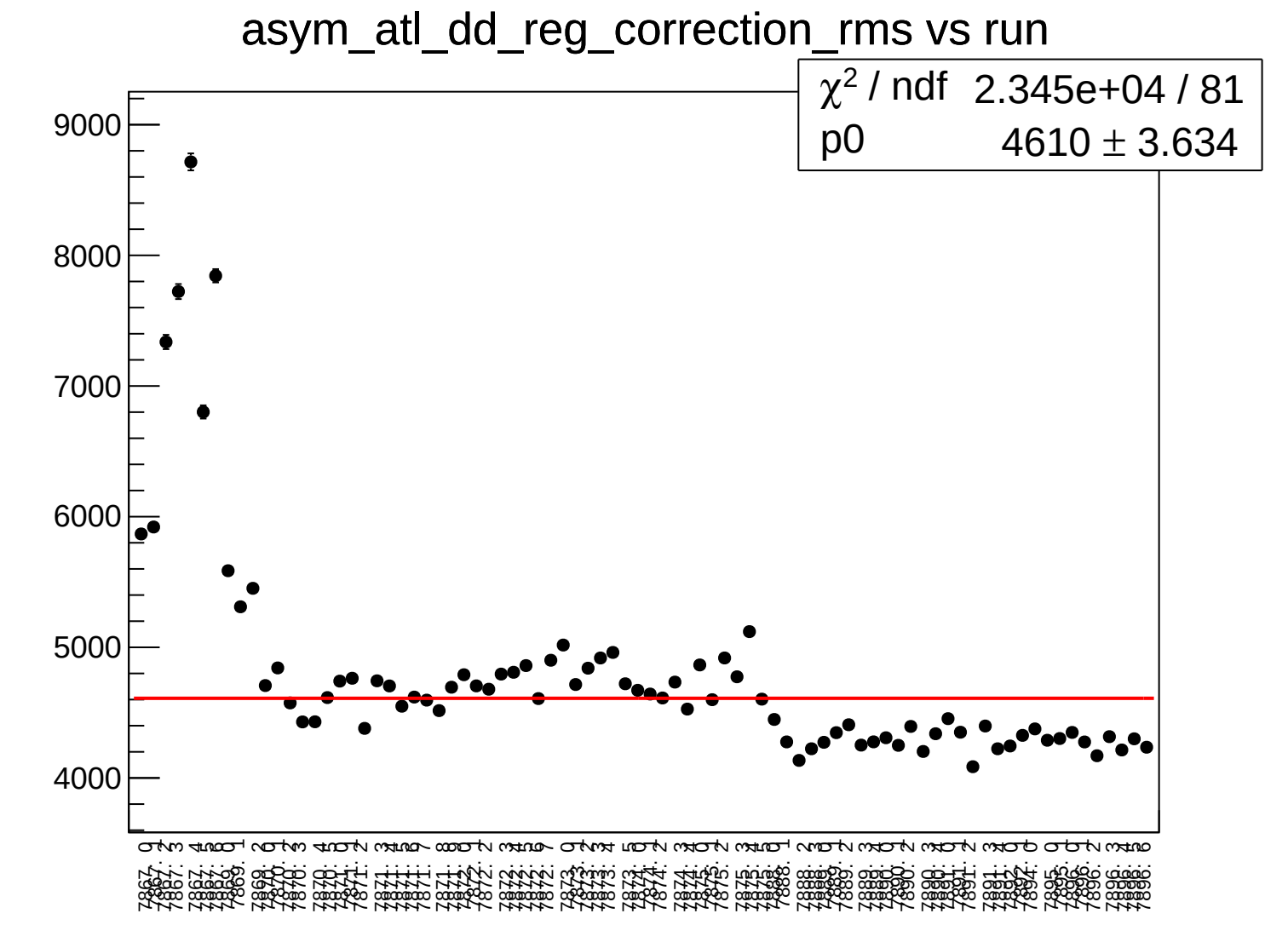

reg_asym_atl_dd_mean vs run
χ² / ndf 70.63 / 81
p0 2249 ± 1791
pull
Entries 82
Mean 442
Std Dev 0

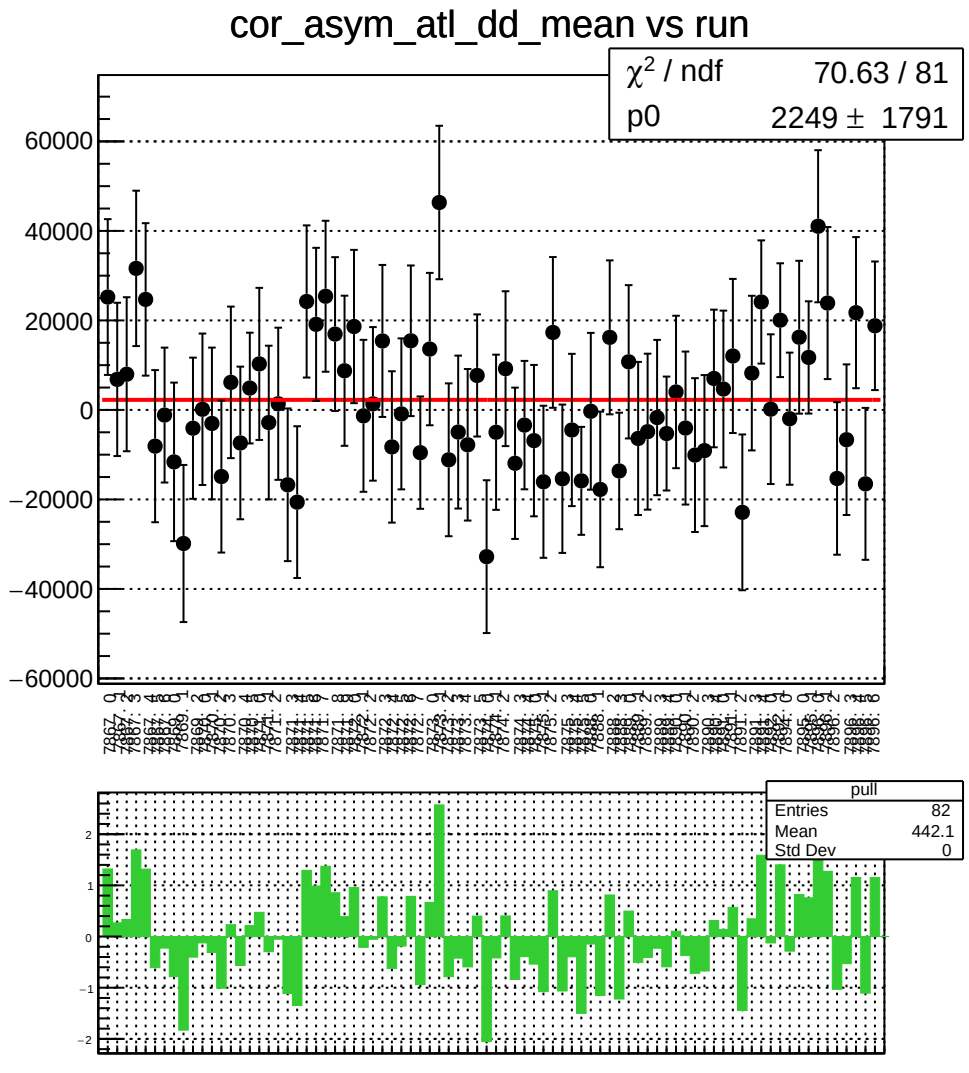

pull1D
Entries 82
Mean 0.001505
Std Dev 0.9281

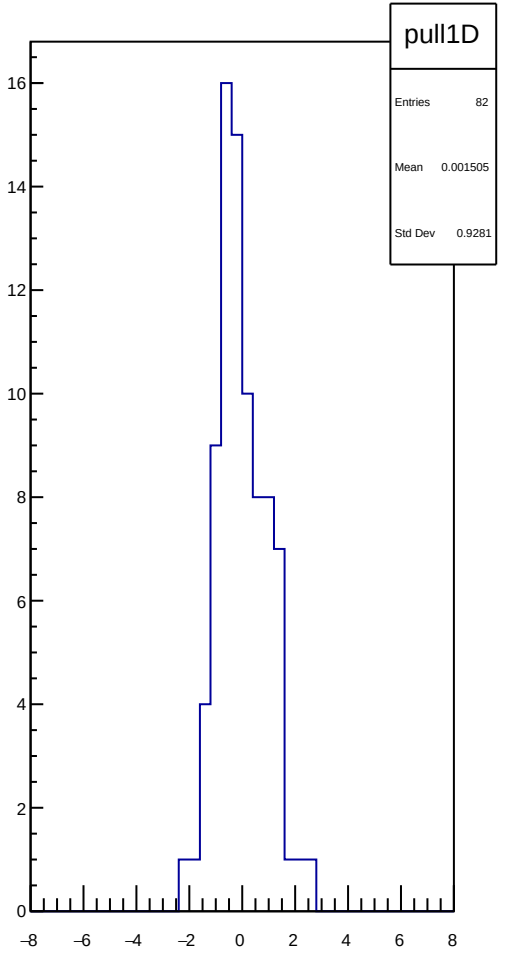

reg_asym_atl_dd_rms vs run
χ² / ndf 348.8 / 81
p0 1618 ± 1.267
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

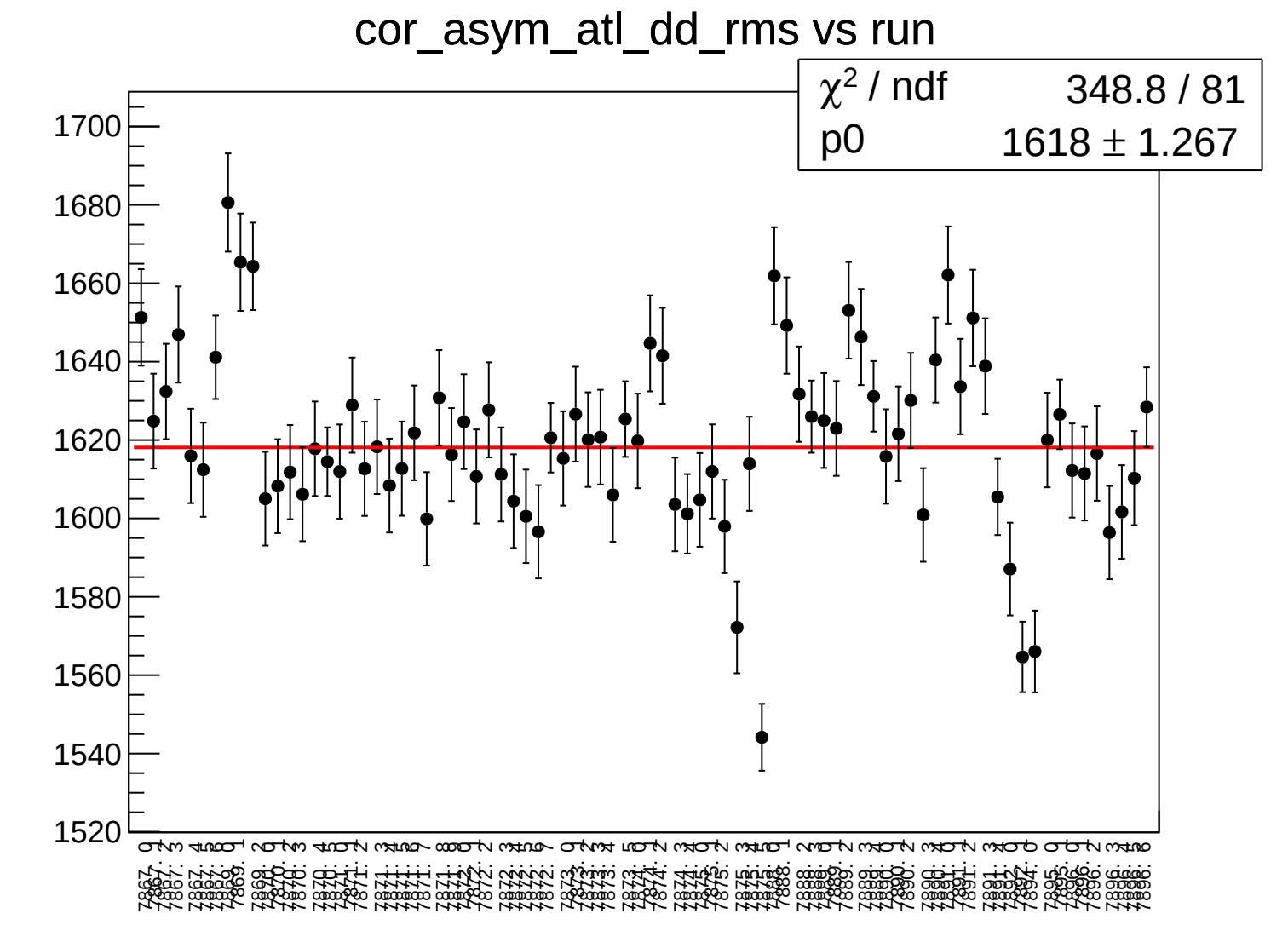

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.32 / 81
p0 −2951 ± 5140
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −169.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

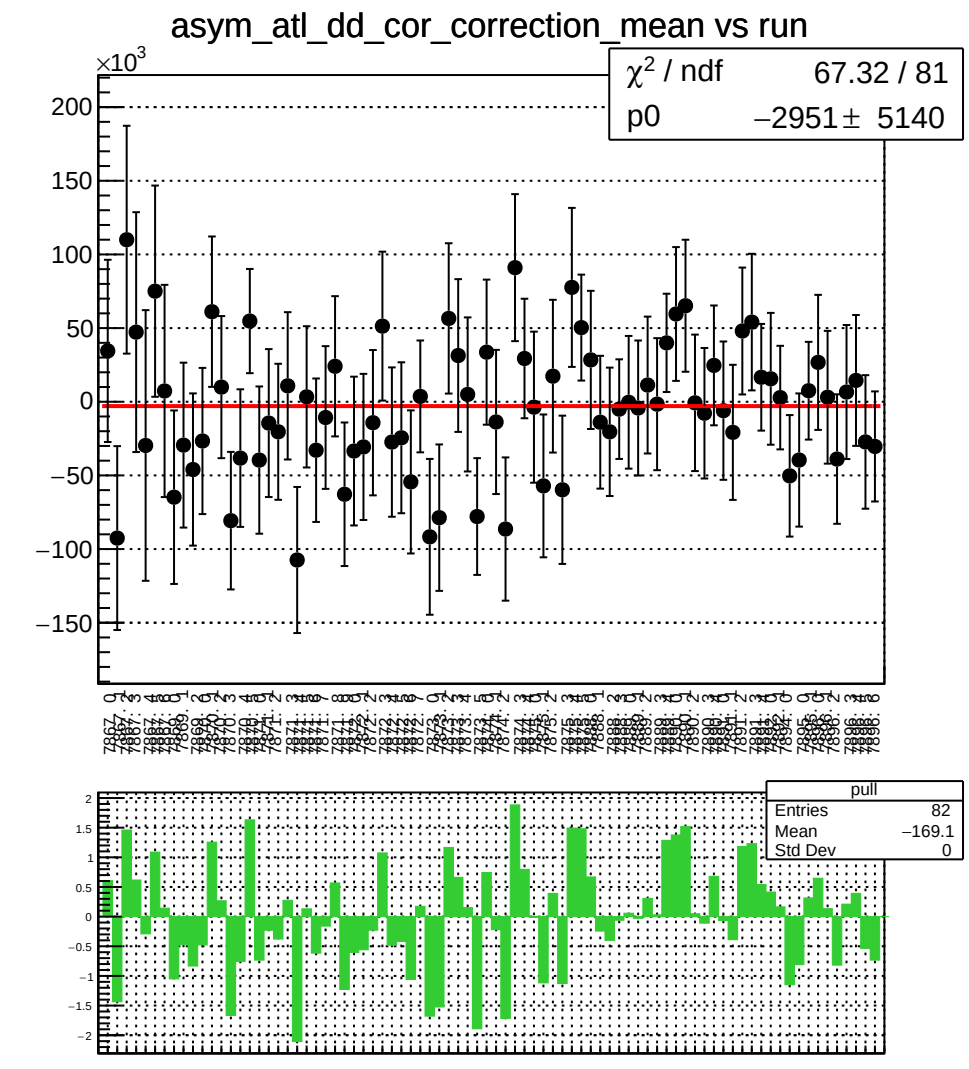

pull1D
Entries 82
Mean −0.01407
Std Dev 0.906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

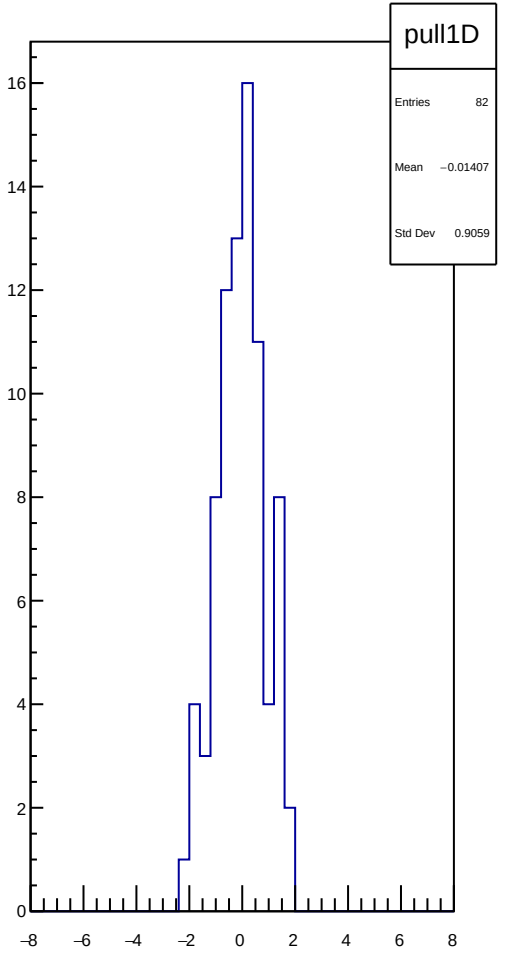

asym_atl_dd_reg_correction_rms vs run
χ^2 / ndf 2.345e+04 / 81
p0 4610 ± 3.634
9000
8000
7000
6000
5000
4000

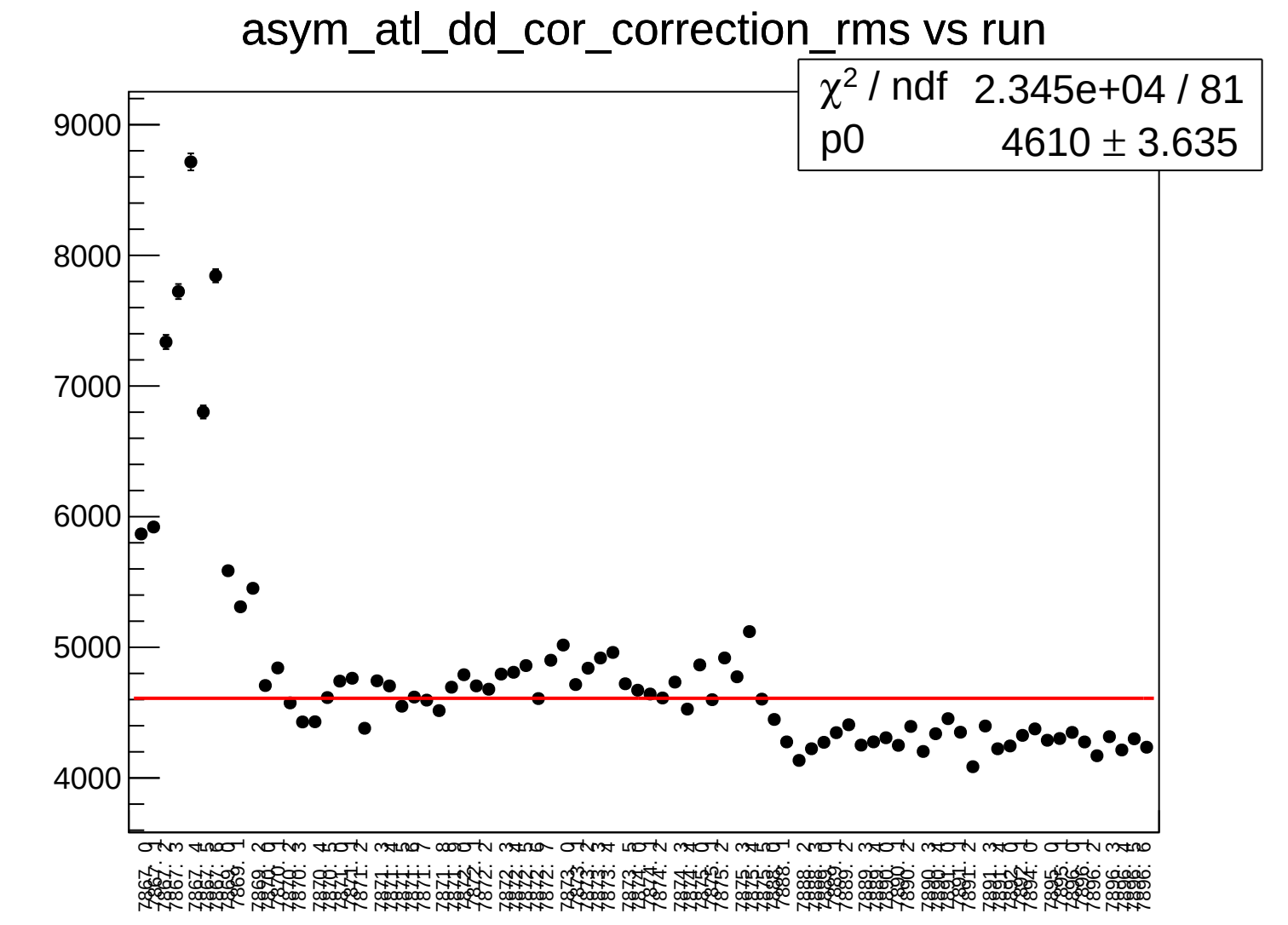

cor_asym_atl_dd_mean vs run
χ² / ndf 70.63 / 81
p0 2249 ± 1791
pull
Entries 82
Mean 442.1
Std Dev 0

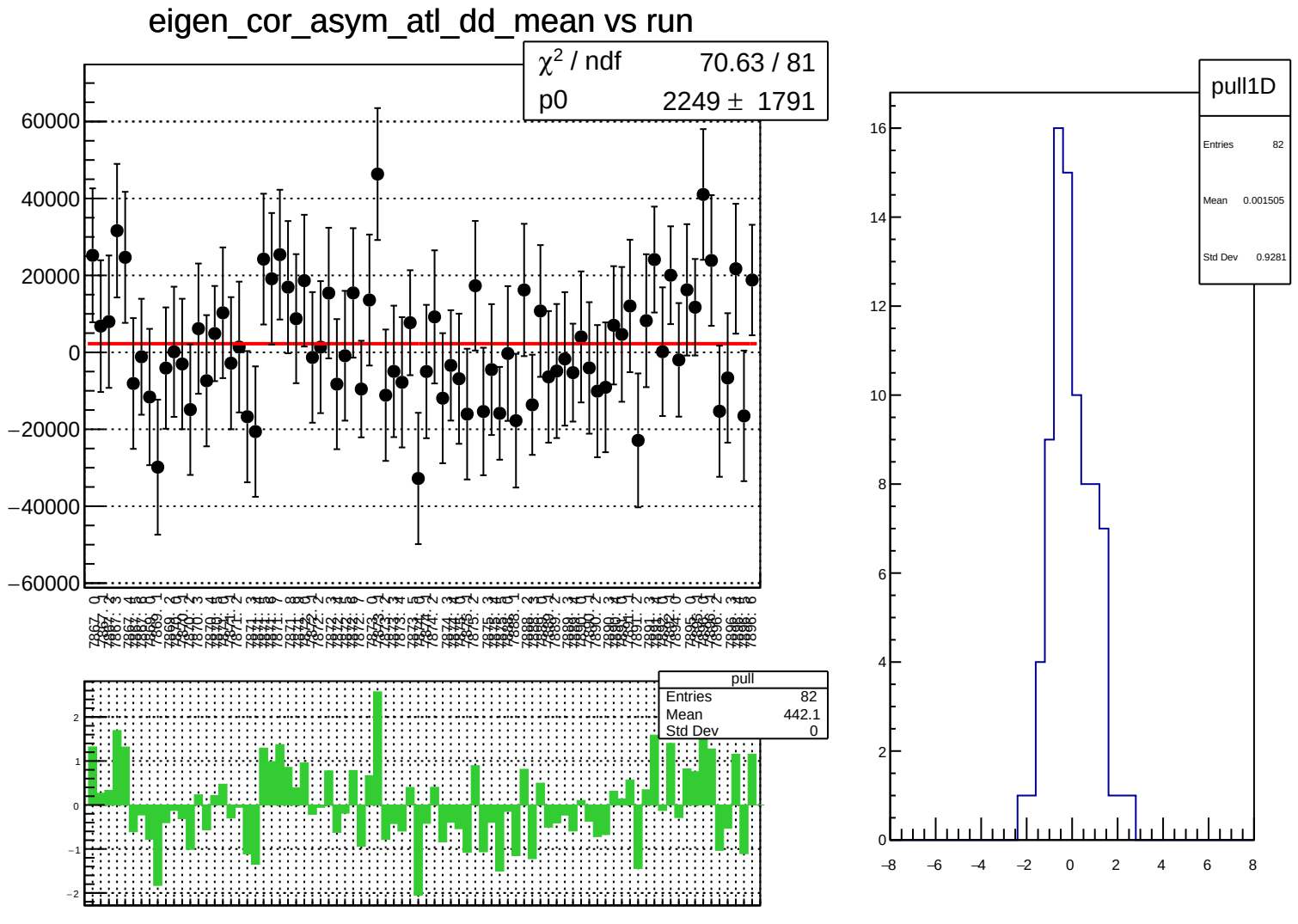

pull1D
Entries 82
Mean 0.001505
Std Dev 0.9281

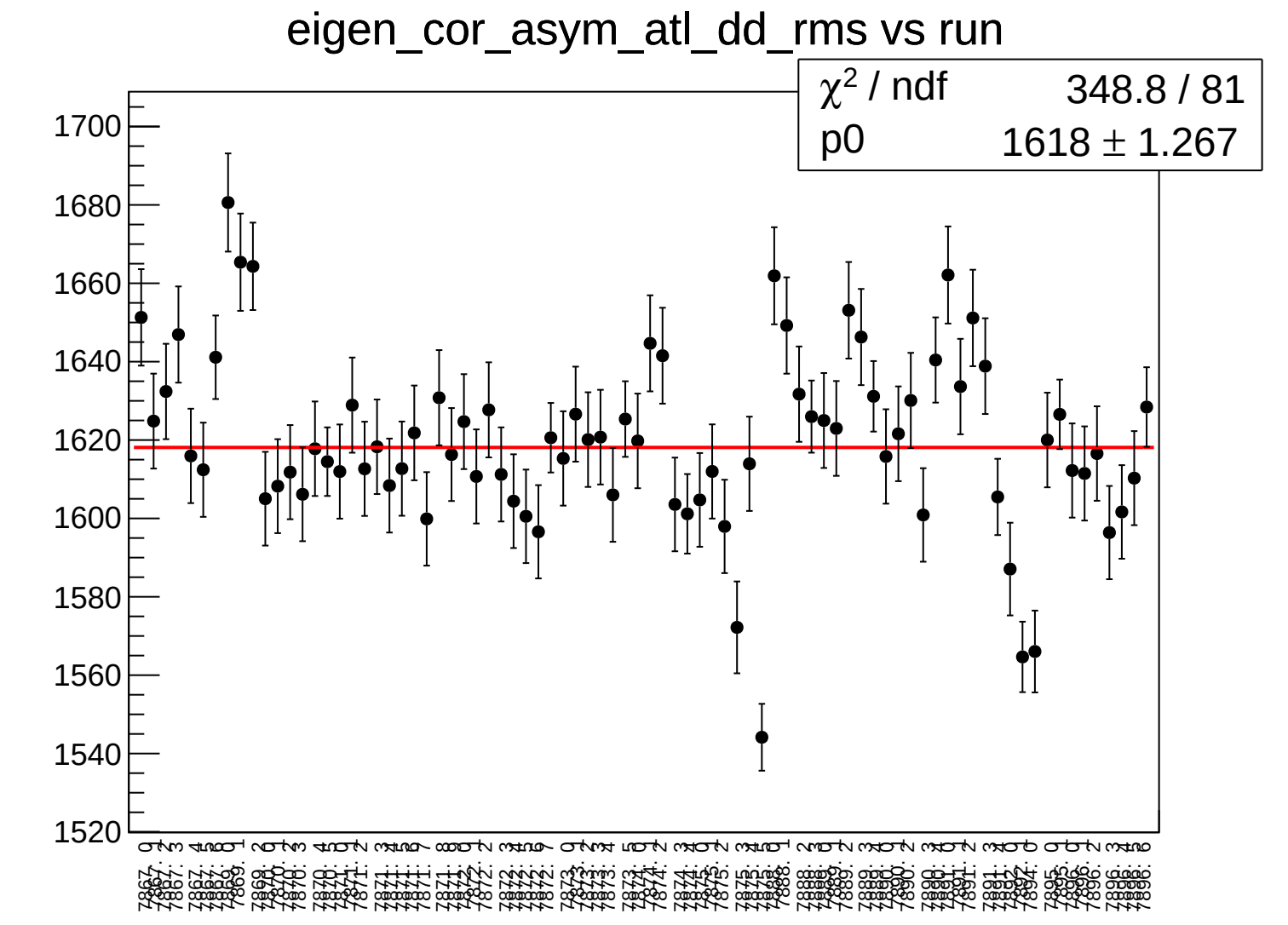

cor_asym_atl_dd_rms vs run
χ² / ndf 348.8 / 81
p0 1618 ± 1.267
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

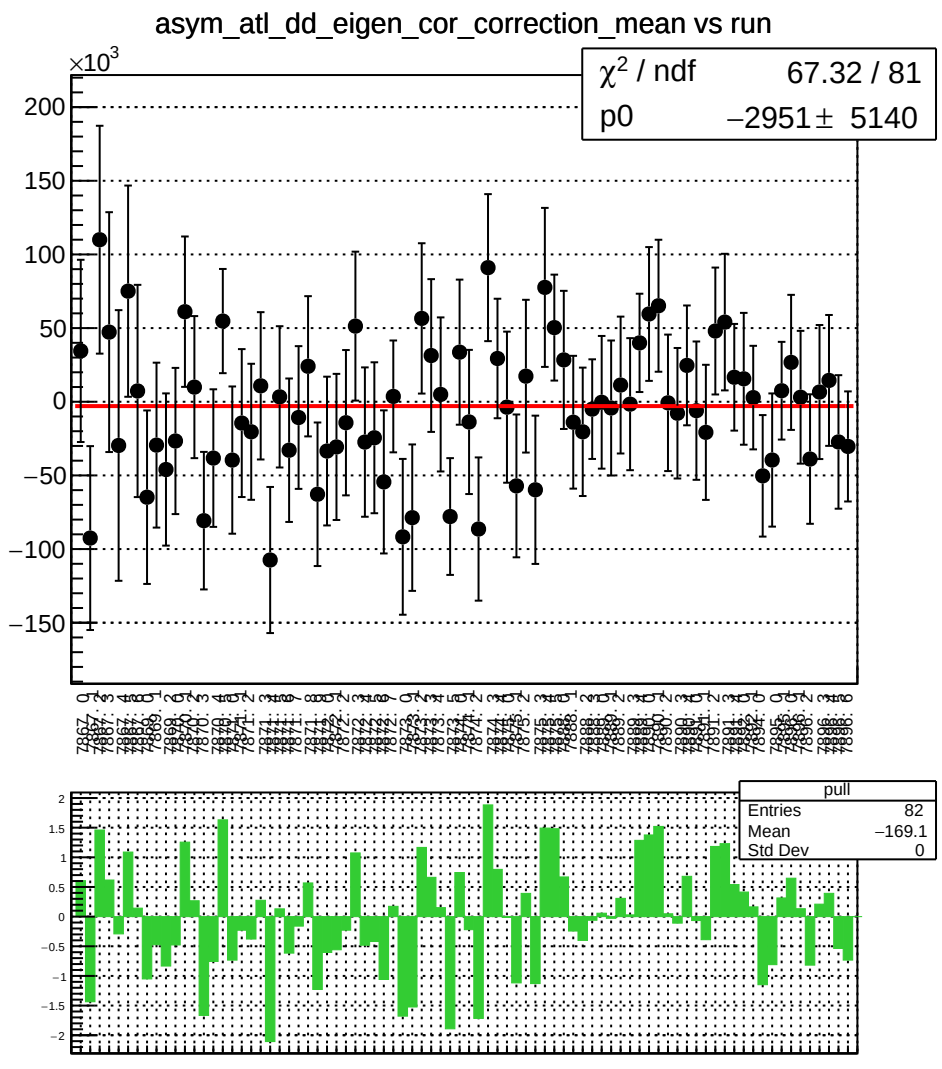

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 67.32 / 81
p0 −2951 ± 5140
×10³
pull
Entries 82
Mean −169.1
Std Dev 0

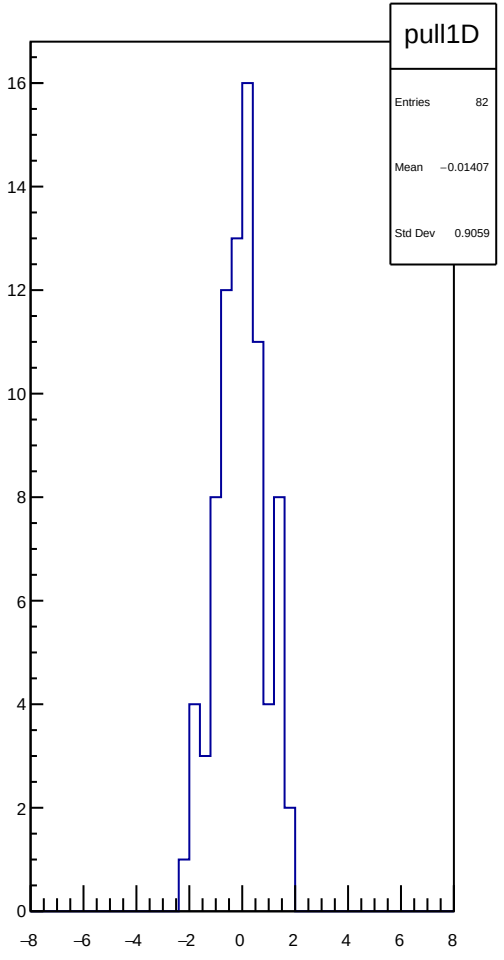

pull1D
Entries 82
Mean −0.01407
Std Dev 0.9059

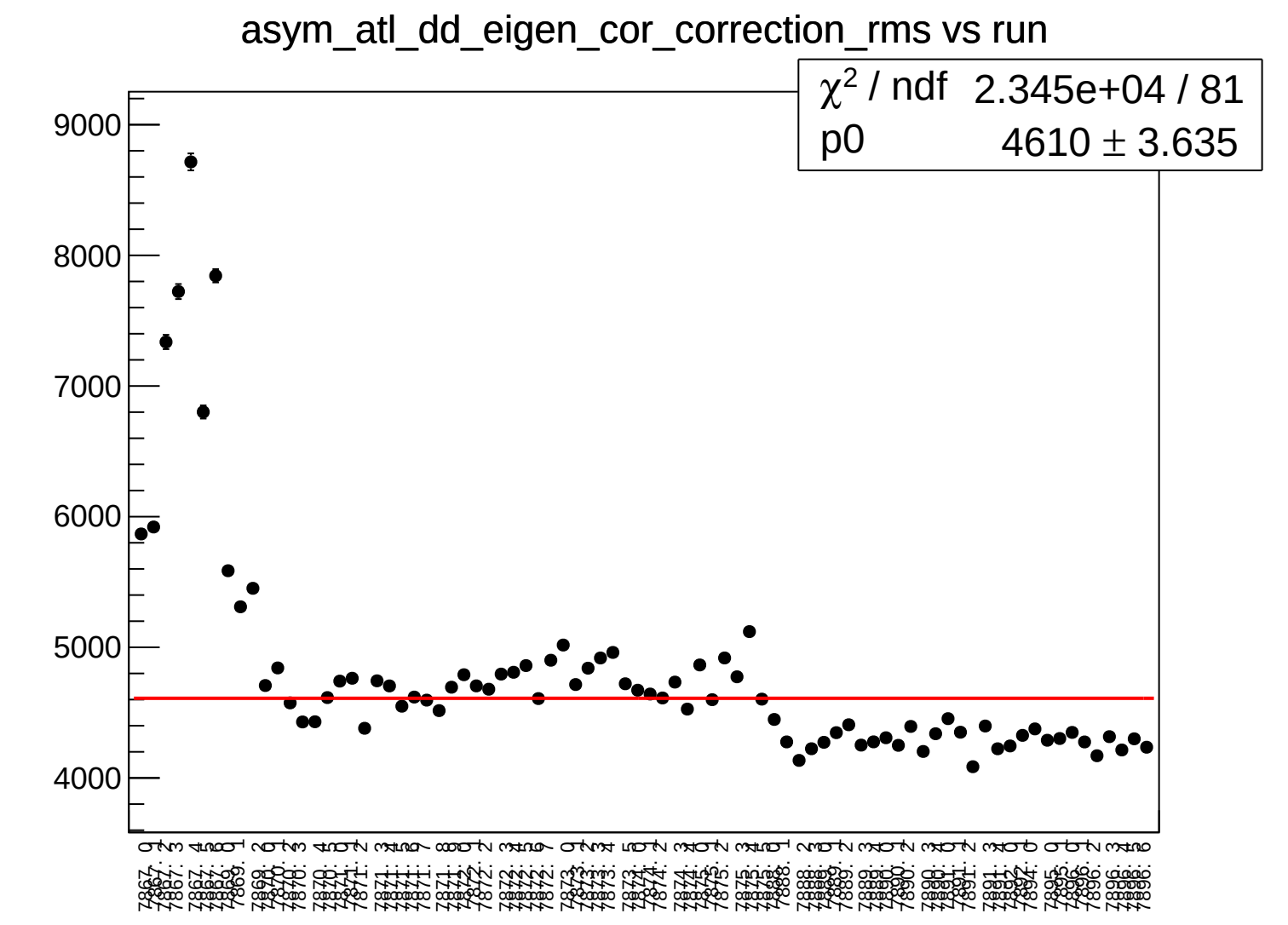

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 2.345e+04 / 81
p0 4610 ± 3.635
9000
8000
7000
6000
5000
4000

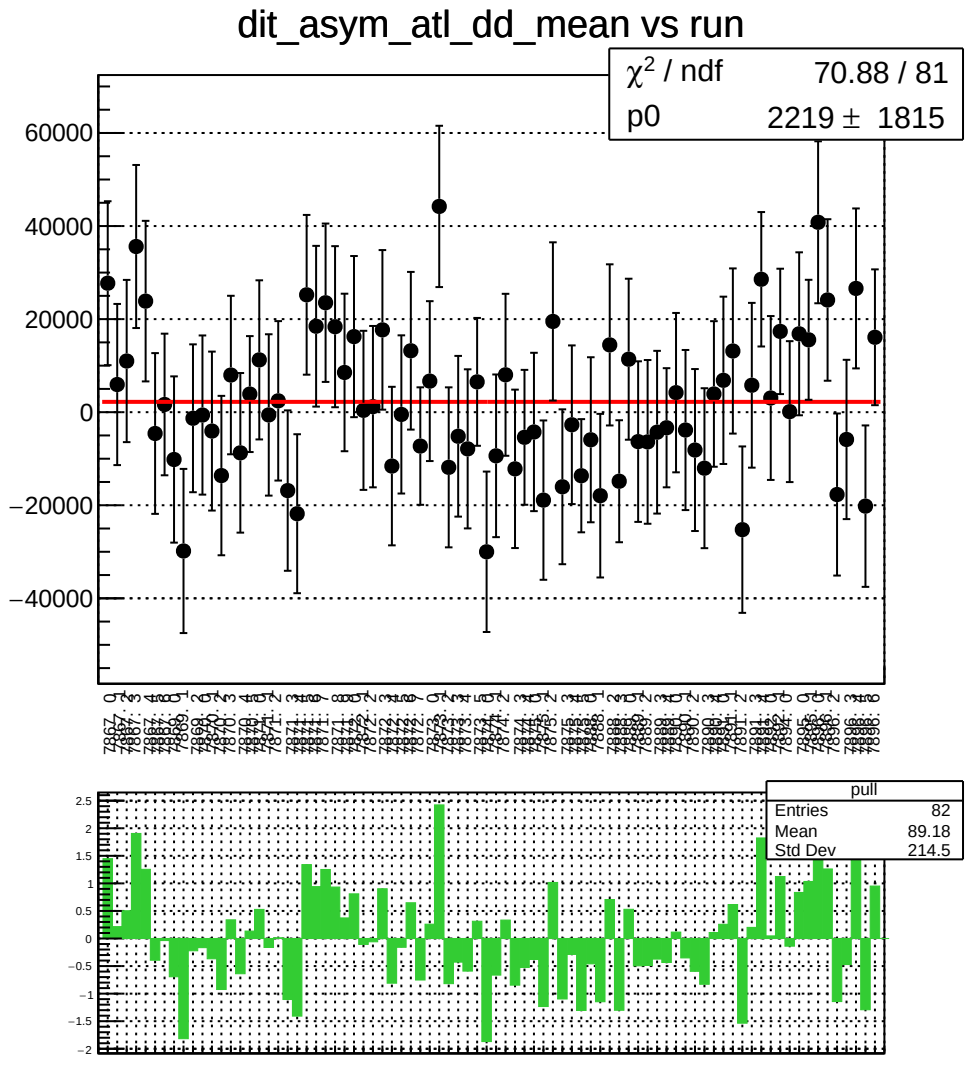

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 70.63 / 81
p0 2249 ± 1791
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 442.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.001505
Std Dev 0.9281
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

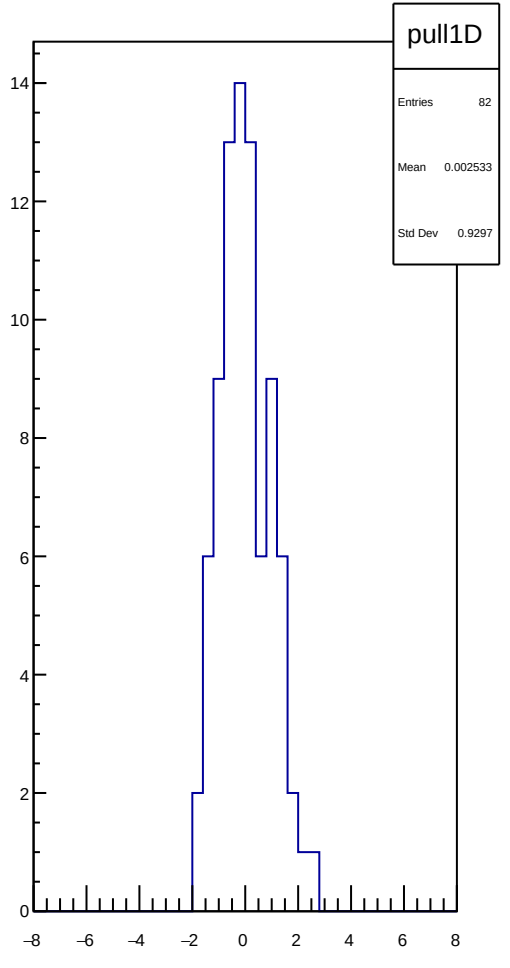

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 348.8 / 81
p0 1618 ± 1.267
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

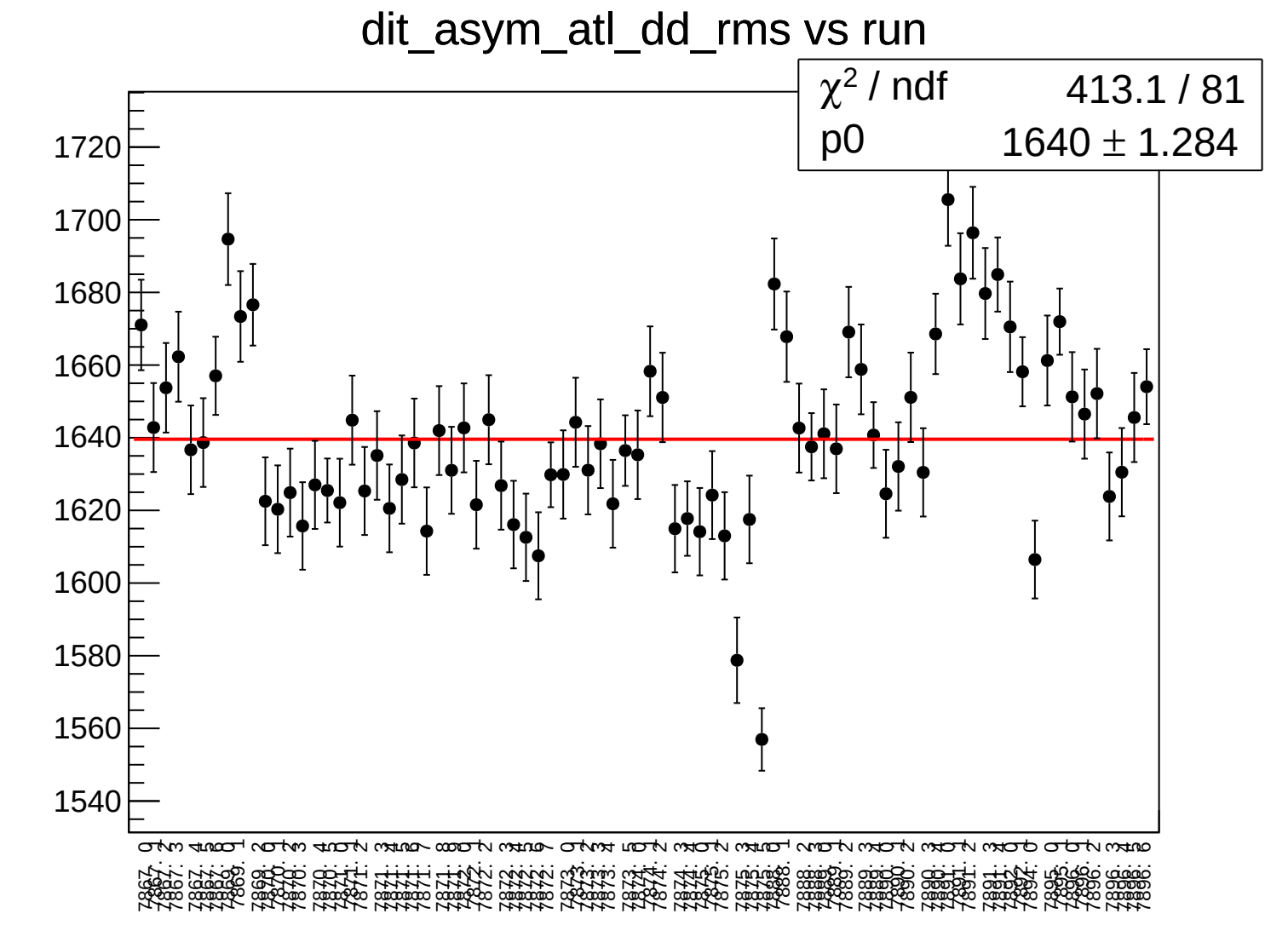

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.32 / 81
p0 −2951 ± 5140
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −169.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

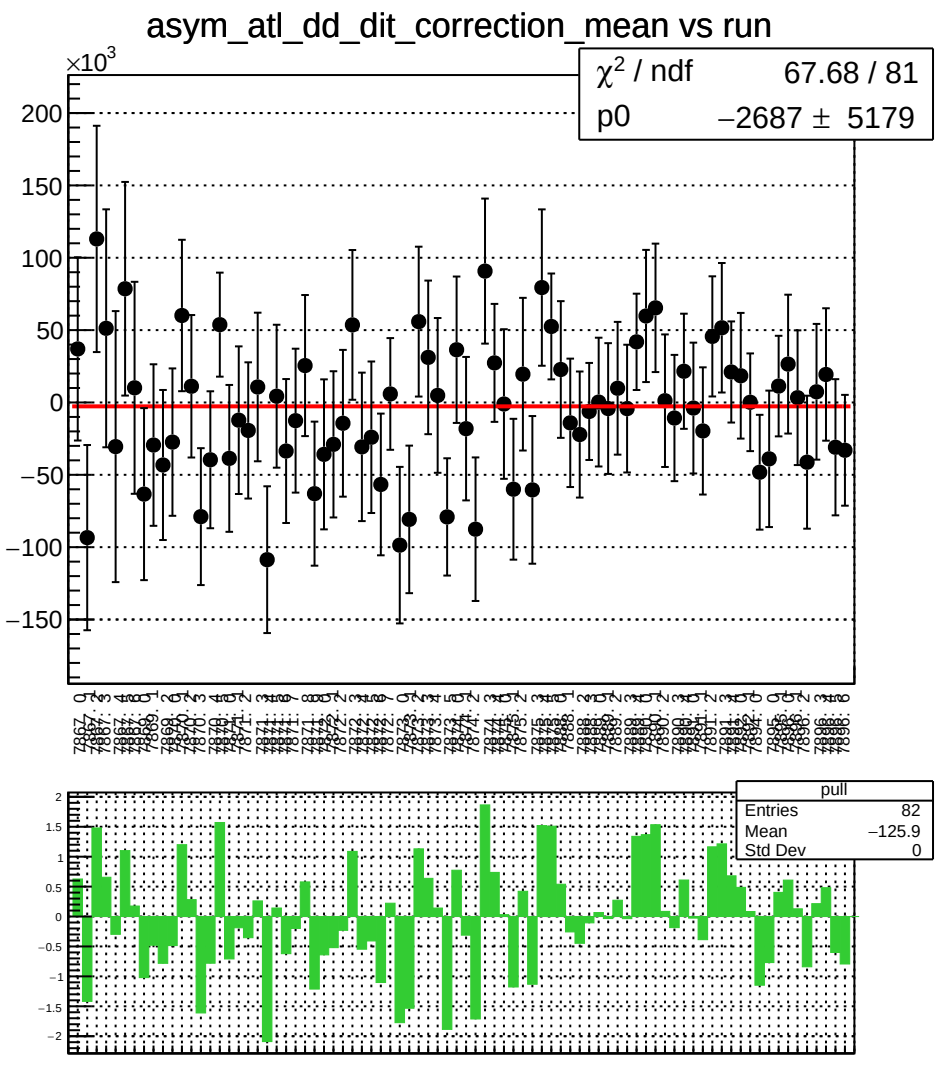

pull1D
Entries 82
Mean −0.01407
Std Dev 0.9059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

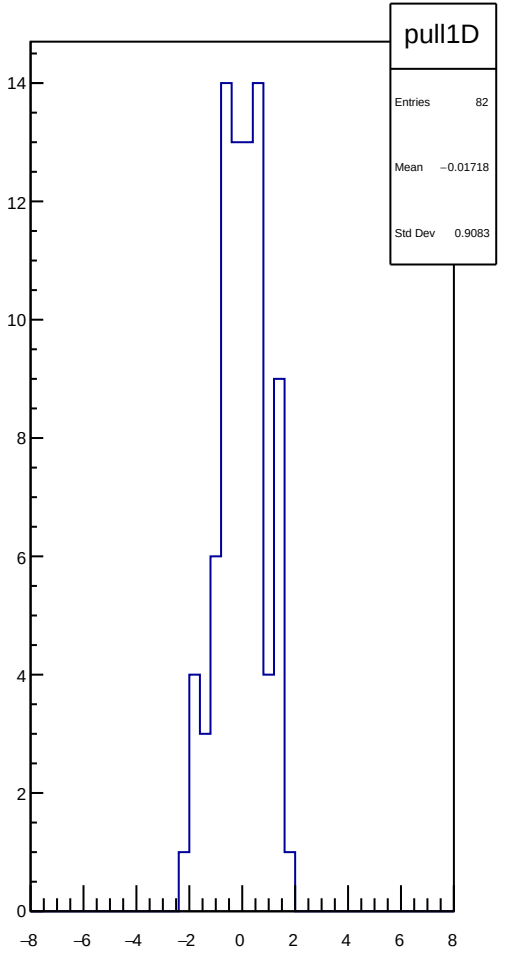

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.345e+04 / 81
p0 4610 ± 3.635
9000
8000
7000
6000
5000
4000

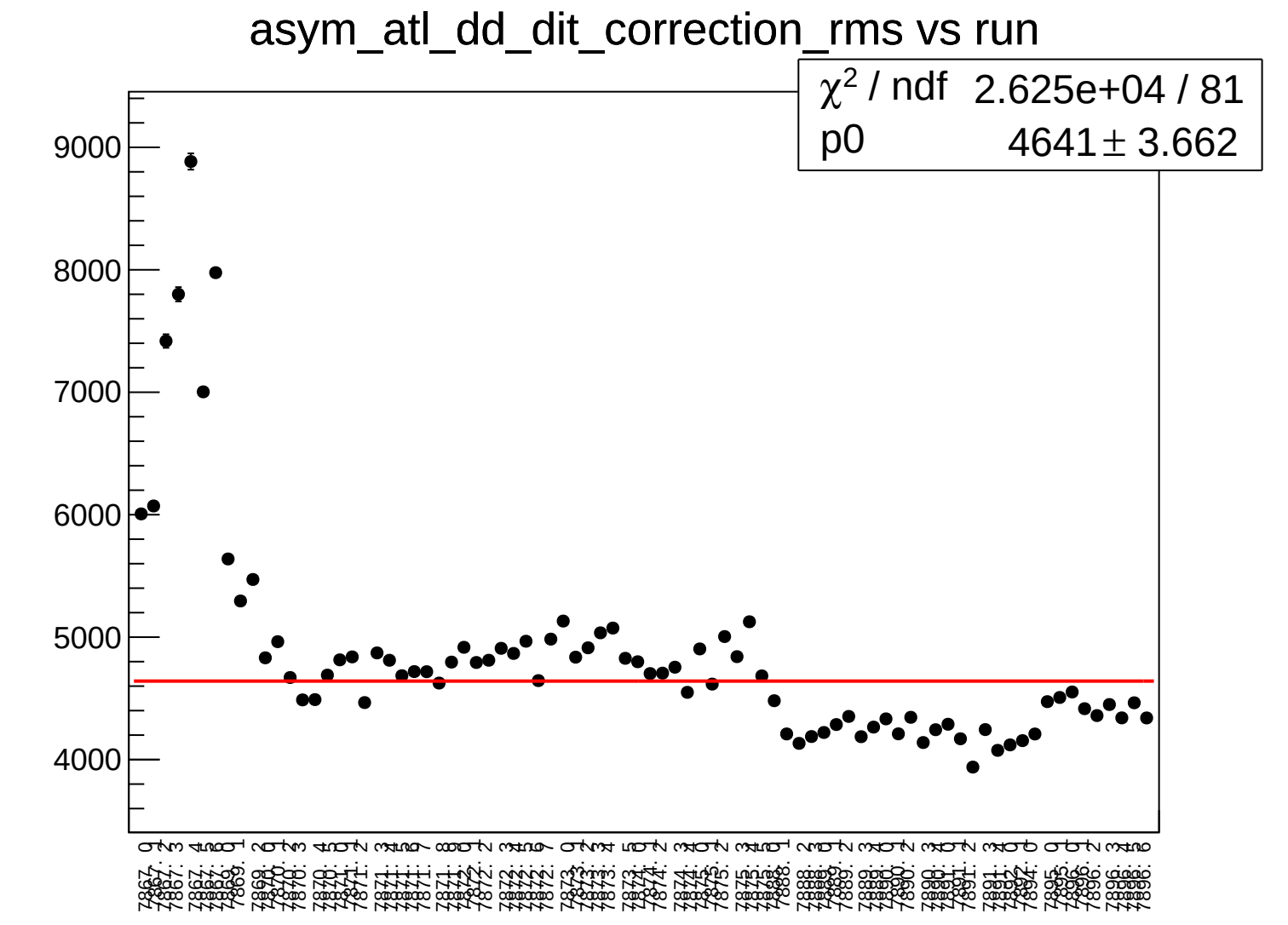

dit_asym_atl_dd_mean vs run
χ² / ndf 70.88 / 81
p0 2219 ± 1815
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 89.18
Std Dev 214.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

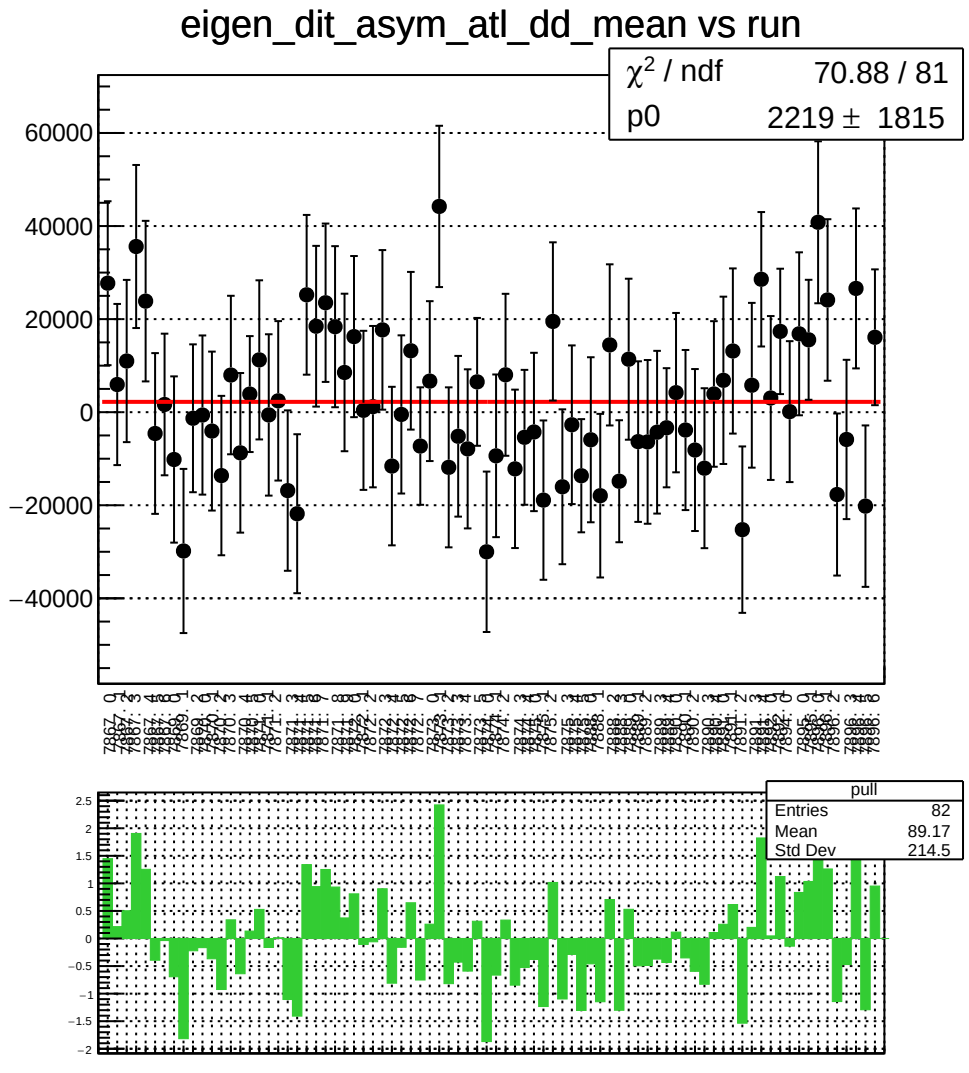

pull1D
Entries 82
Mean 0.002533
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

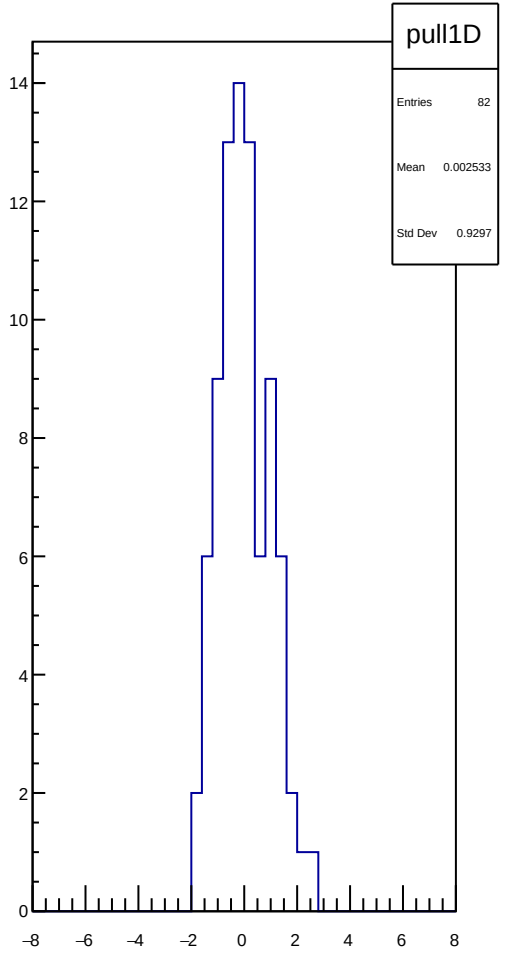

dit_asym_atl_dd_rms vs run
χ² / ndf 413.1 / 81
p0 1640 ± 1.284
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

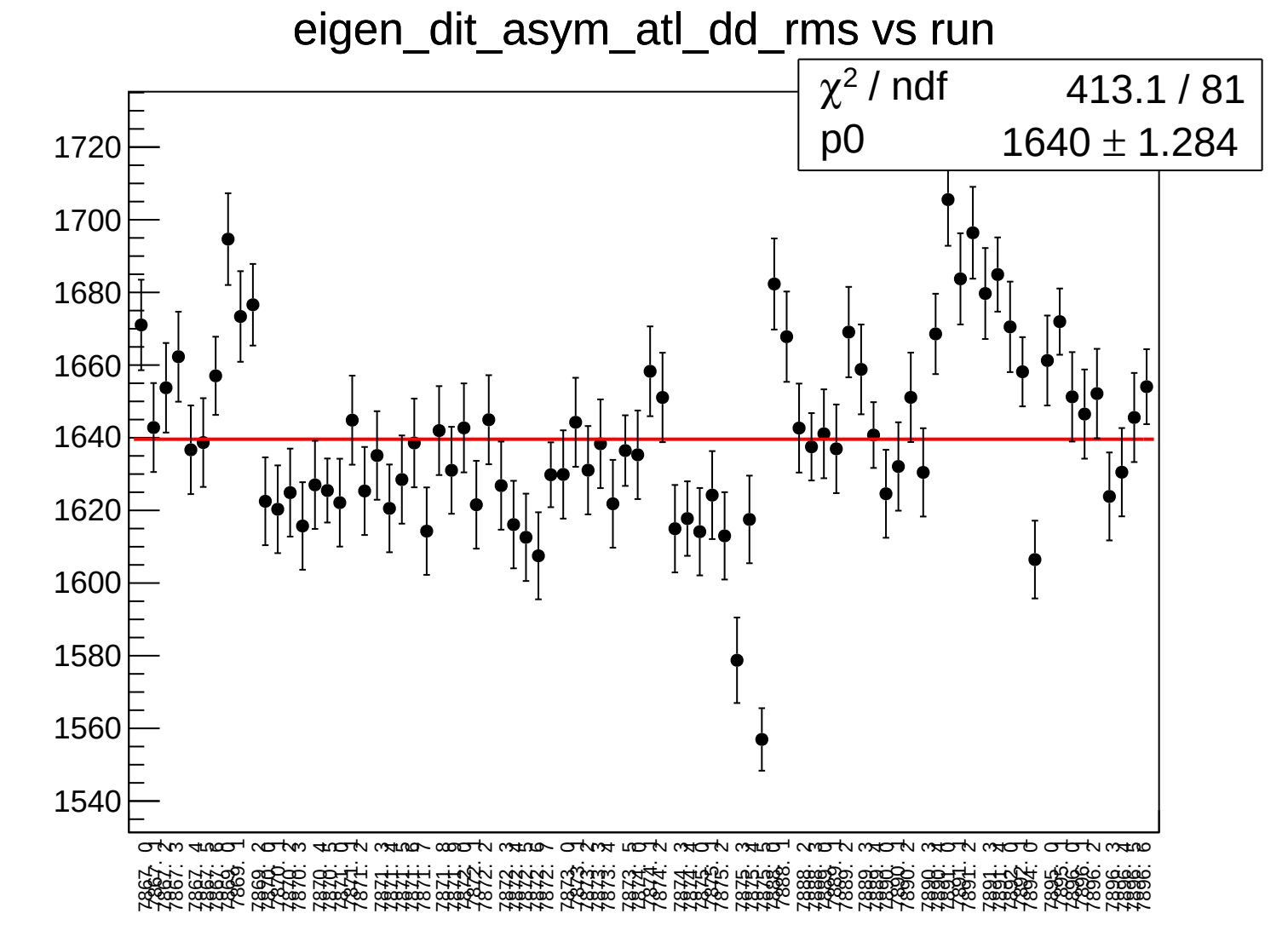

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.68 / 81
p0 −2687 ± 5179
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −125.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

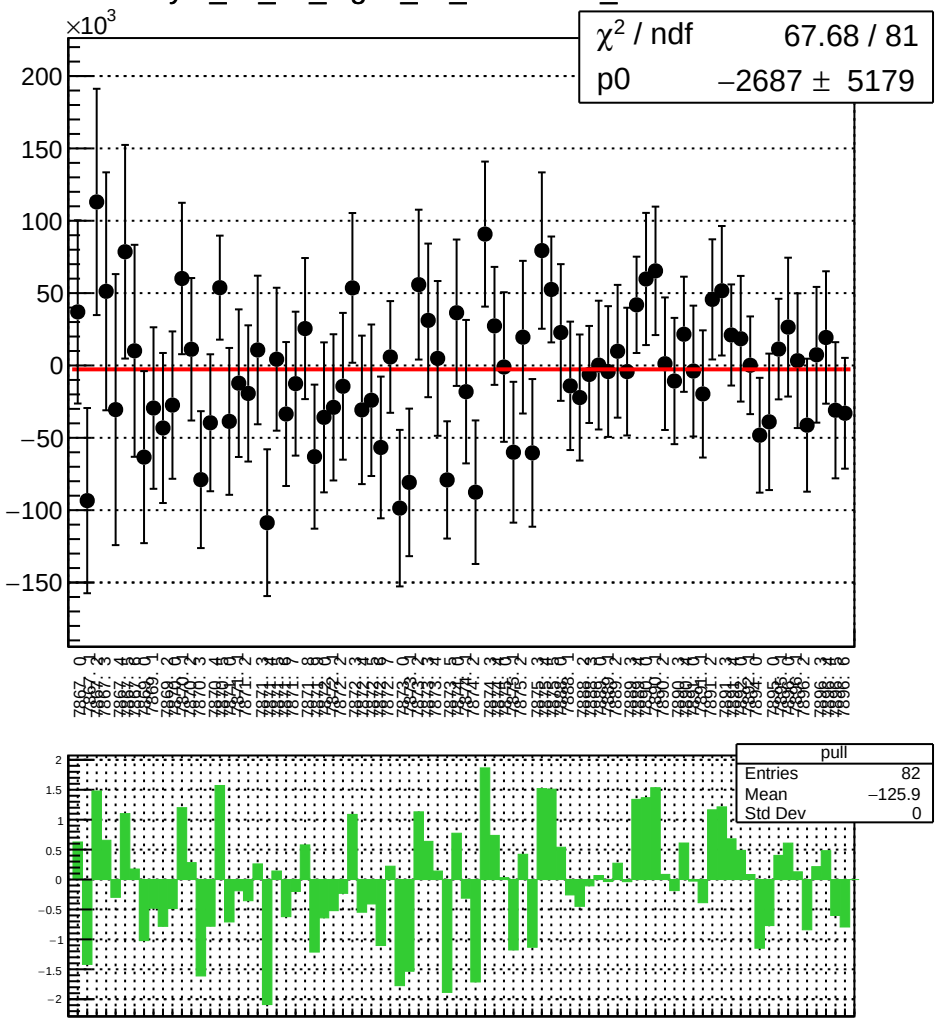

pull1D
Entries 82
Mean −0.01718
Std Dev 0.9083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

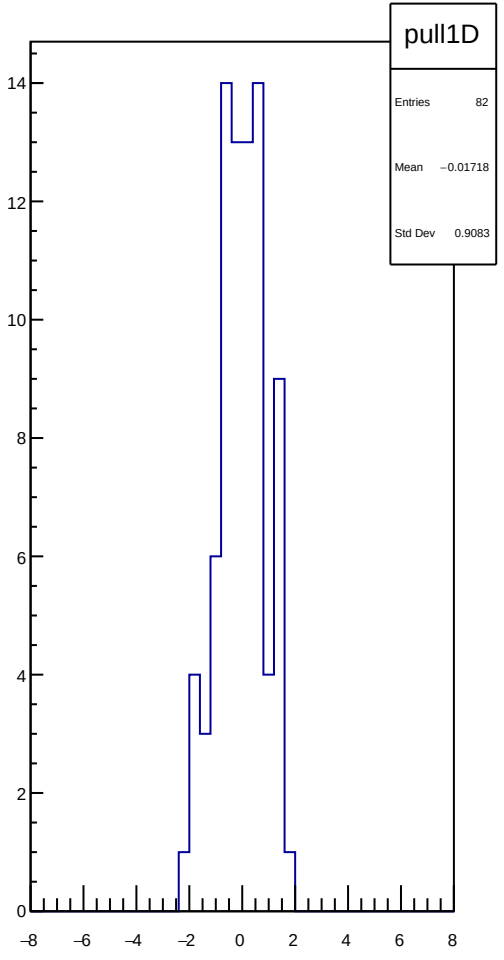

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 2.625e+04 / 81
p0 4641 ± 3.662
9000
8000
7000
6000
5000
4000

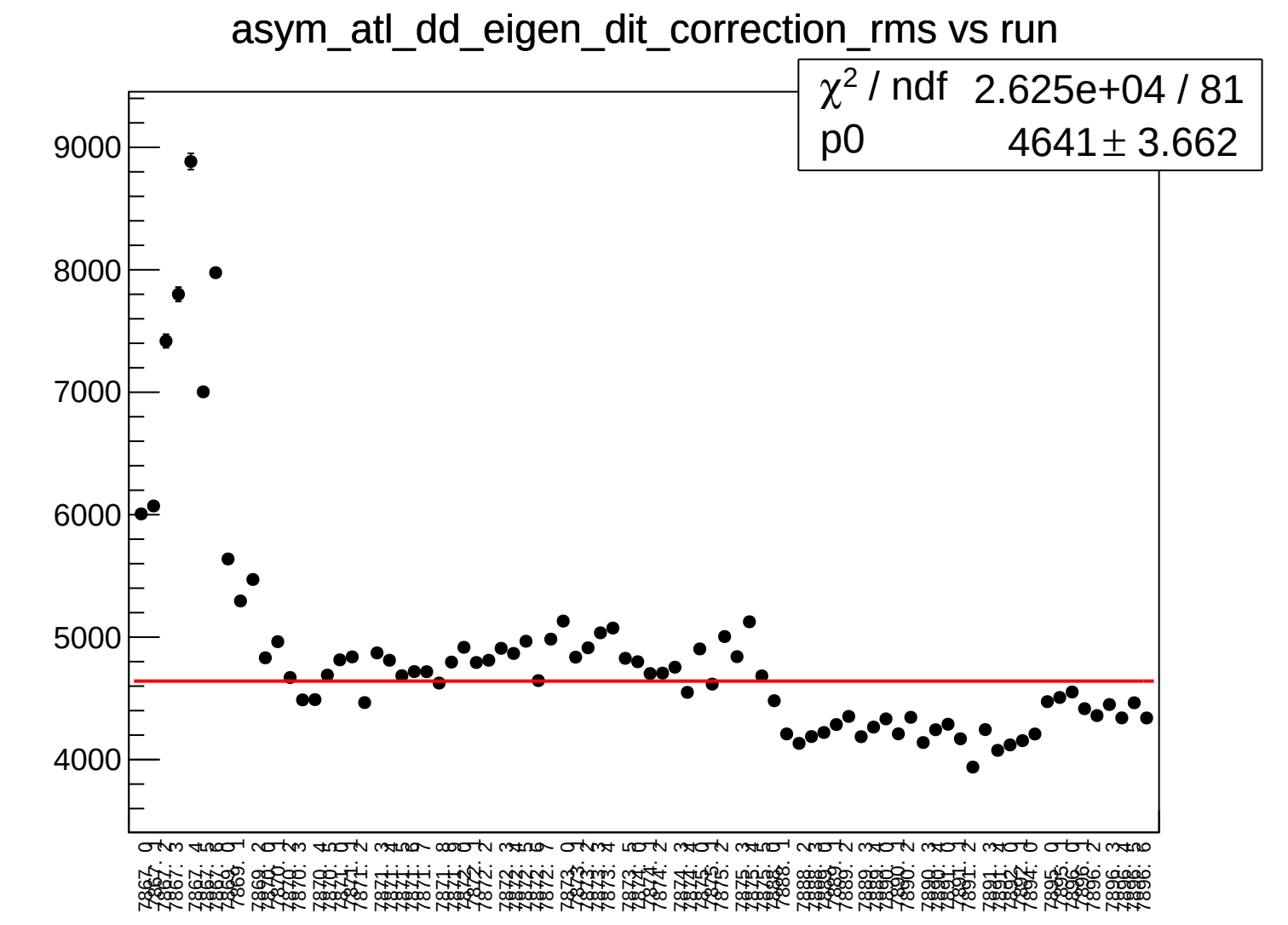

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 70.88 / 81
p0 2219 ± 1815
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 89.17
Std Dev 214.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

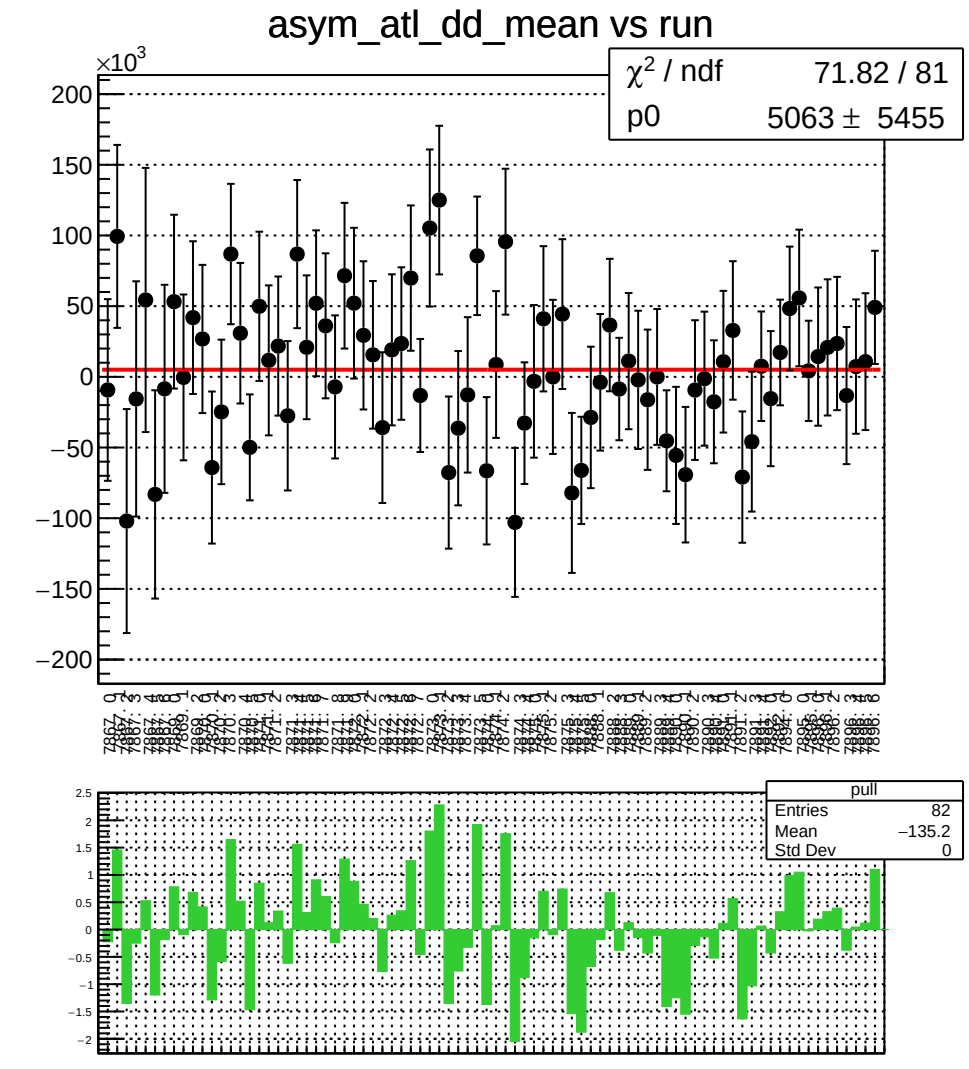

pull1D
Entries 82
Mean 0.002533
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

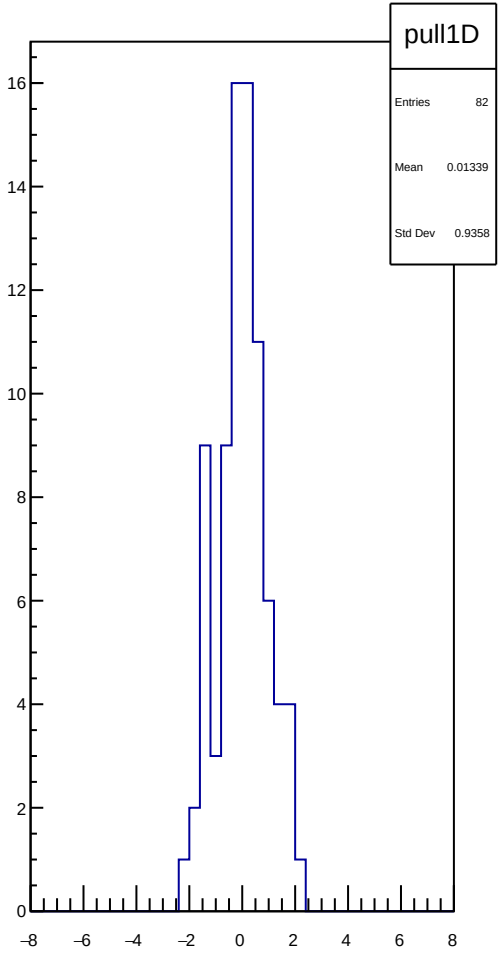

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 413.1 / 81
p0 1640 ± 1.284
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

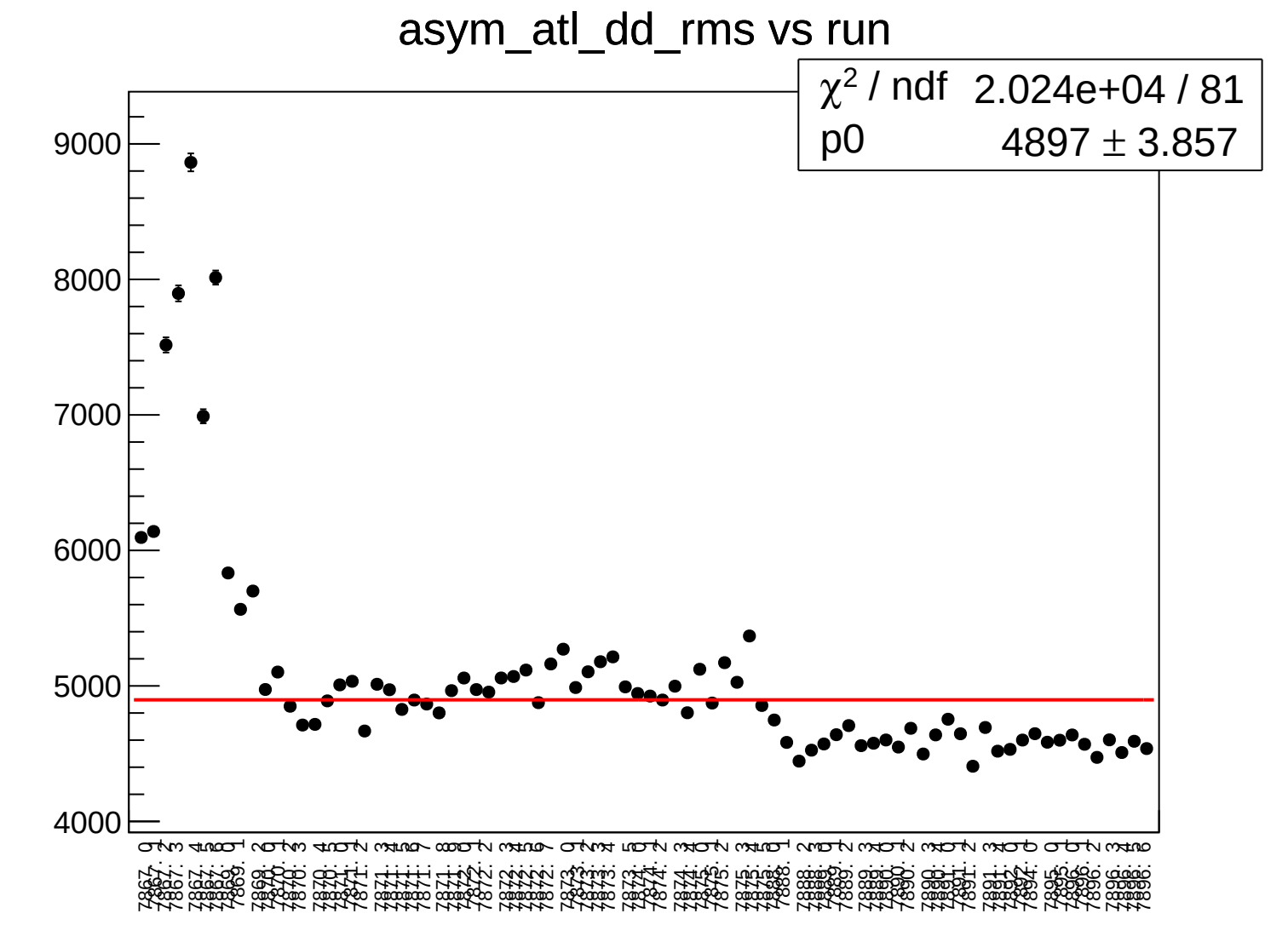

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.68 / 81
p0 −2687 ± 5179
pull
Entries 82
Mean −125.9
Std Dev 0

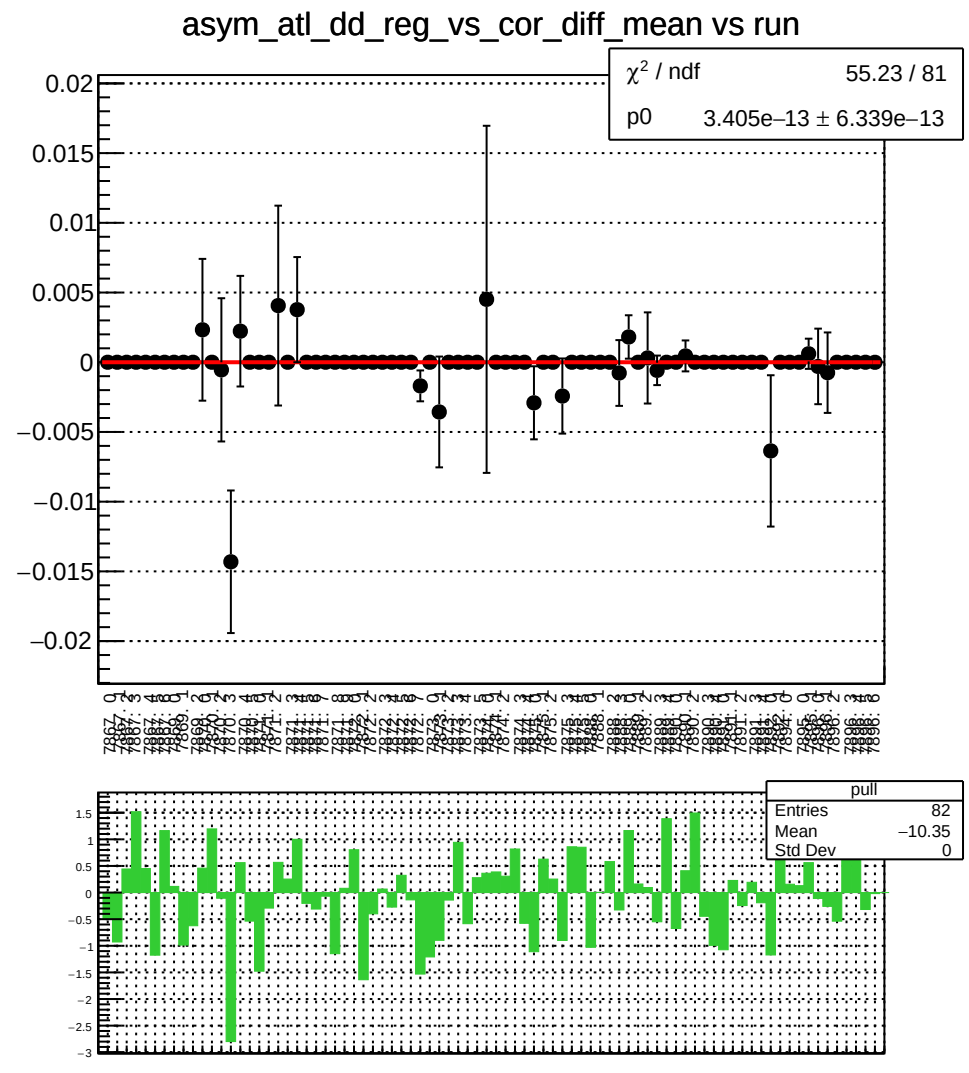

pull1D
Entries 82
Mean −0.01718
Std Dev 0.9083

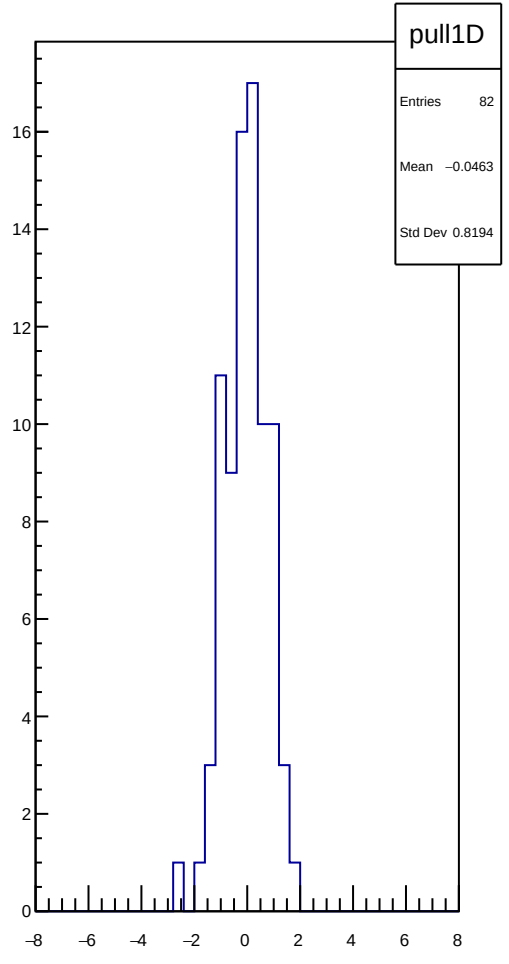

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.625e+04 / 81
p0 4641 ± 3.662
9000
8000
7000
6000
5000
4000

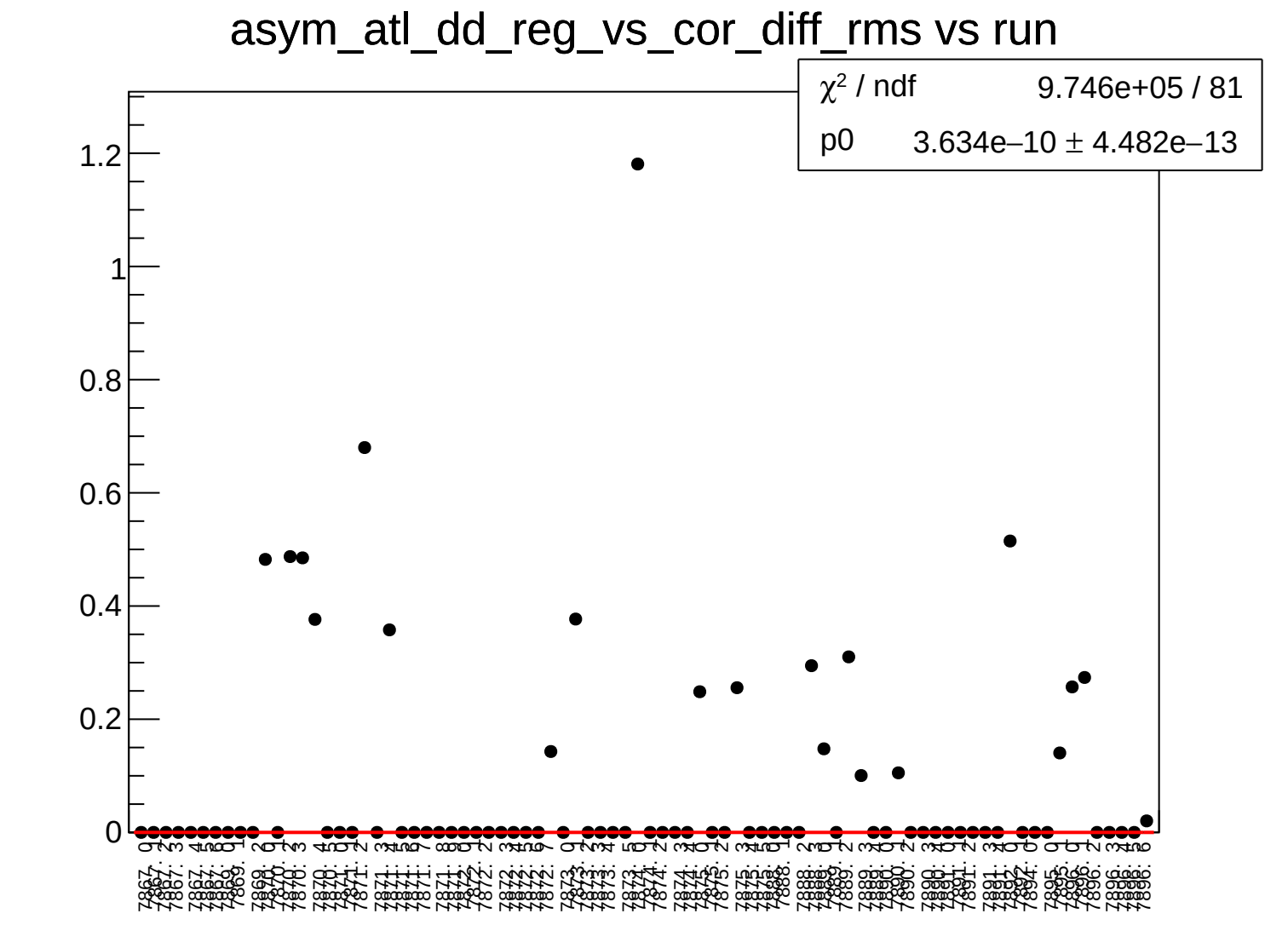

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 71.82 / 81
p0 5063 ± 5455
pull
Entries 82
Mean −135.2
Std Dev 0

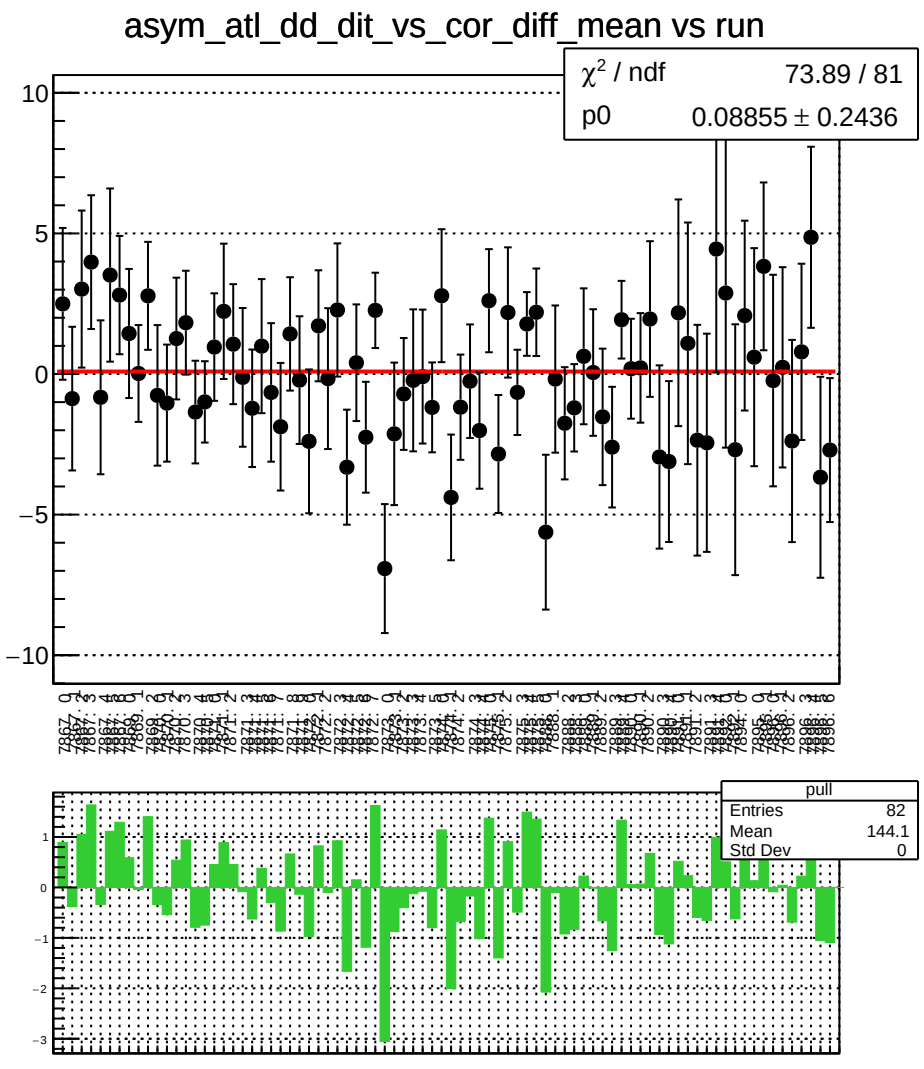

pull1D
Entries 82
Mean 0.01339
Std Dev 0.9358

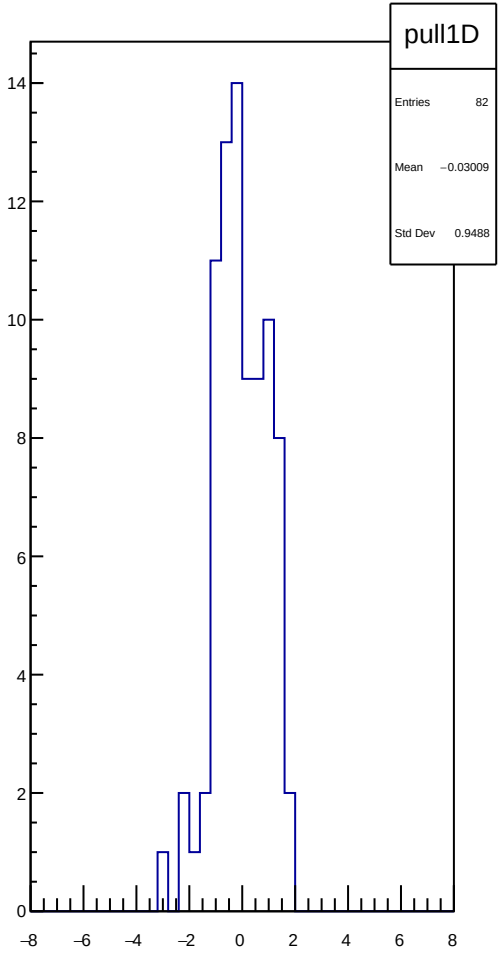

asym_atl_dd_rms vs run
χ² / ndf 2.024e+04 / 81
p0 4897 ± 3.857
9000
8000
7000
6000
5000
4000

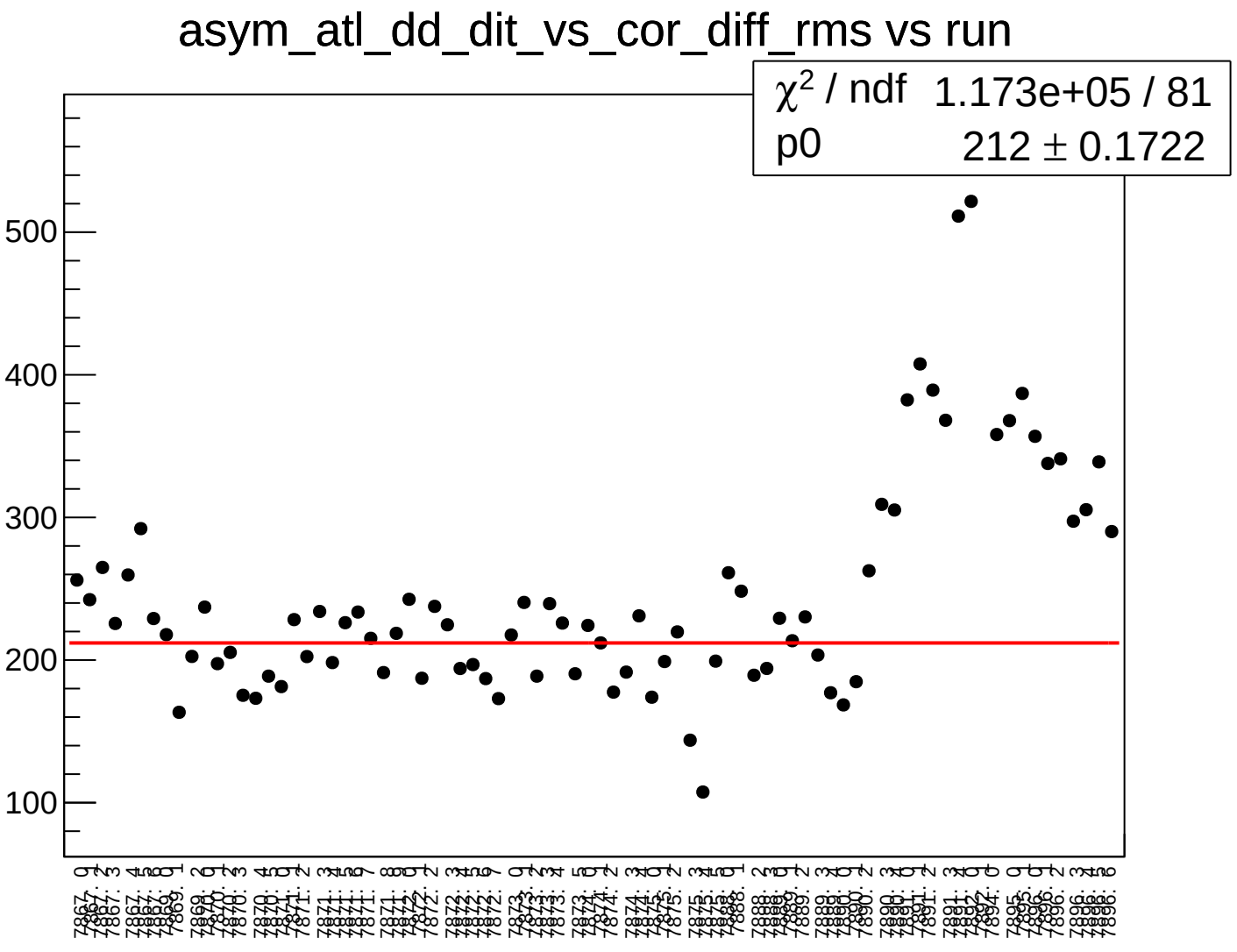

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 55.23 / 81
p0 3.405e−13 ± 6.339e−13
pull
Entries 82
Mean −10.35
Std Dev 0

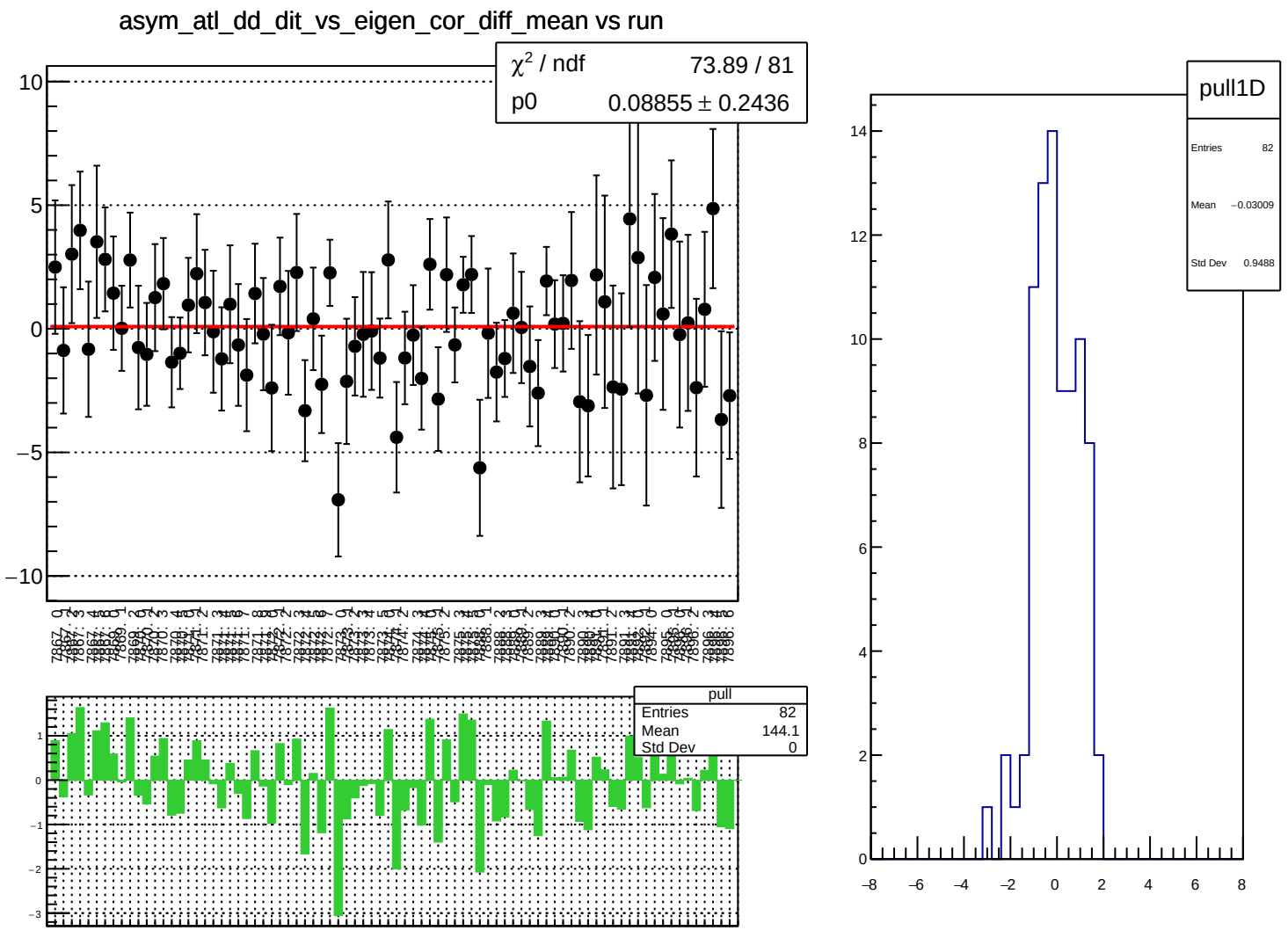

pull1D
Entries 82
Mean −0.0463
Std Dev 0.8194

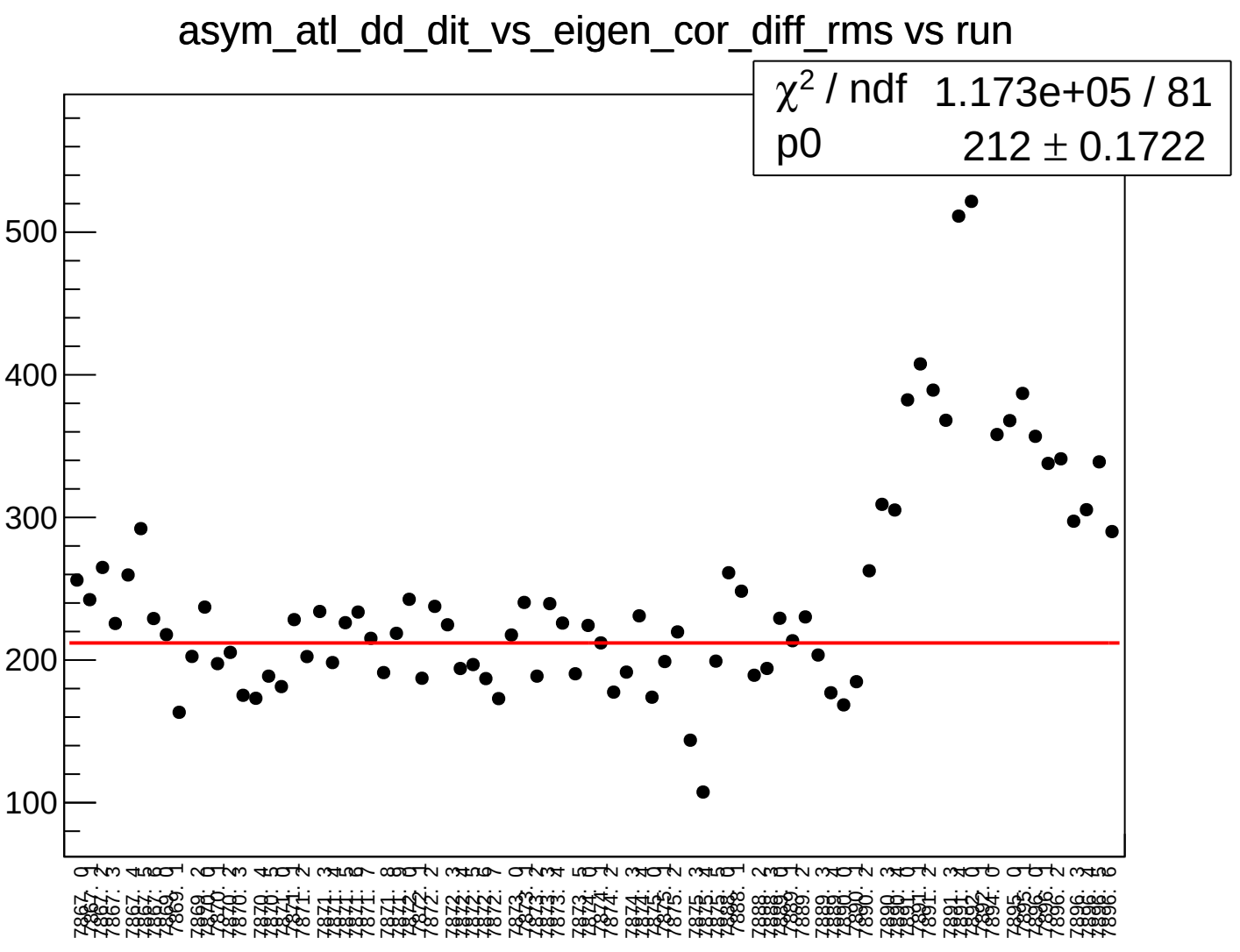

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.746e+05 / 81
p0 3.634e−10 ± 4.482e−13
1.2
1
0.8
0.6
0.4
0.2
0

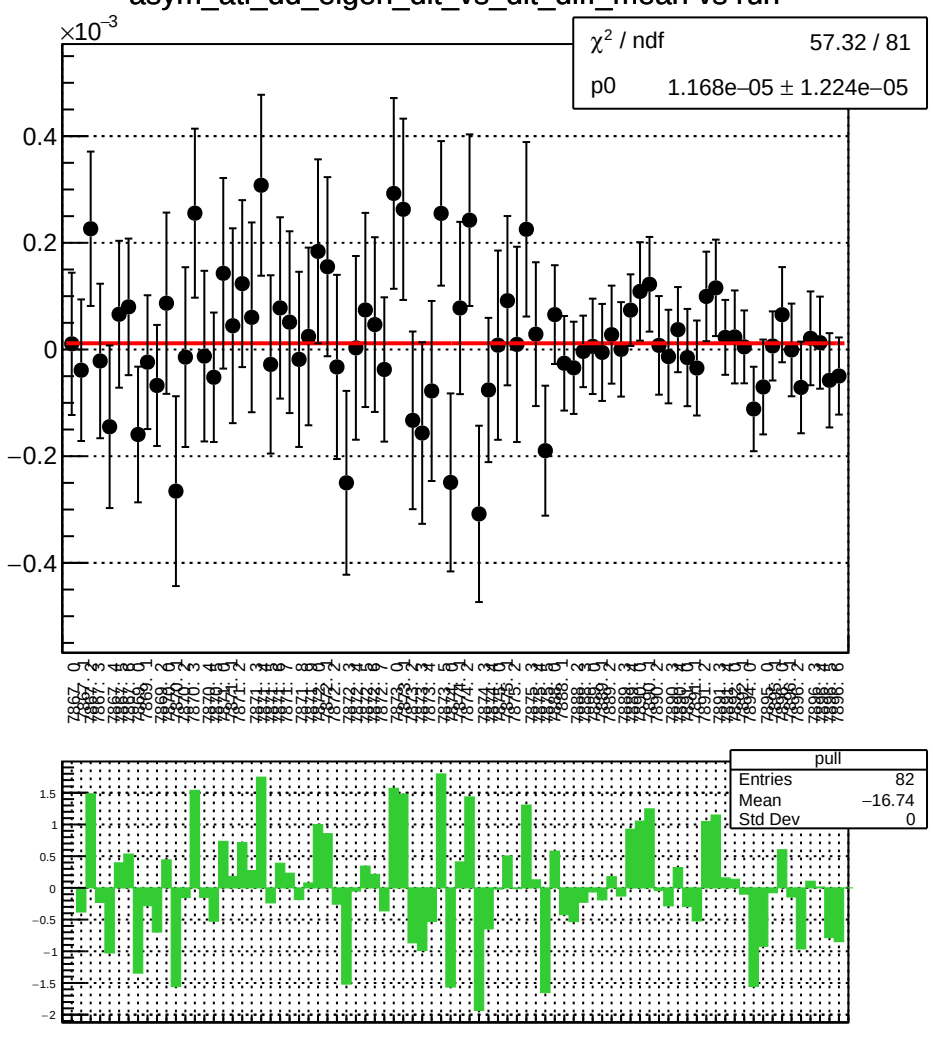

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.89 / 81
p0 0.08855 ± 0.2436
pull
Entries 82
Mean 144.1
Std Dev 0

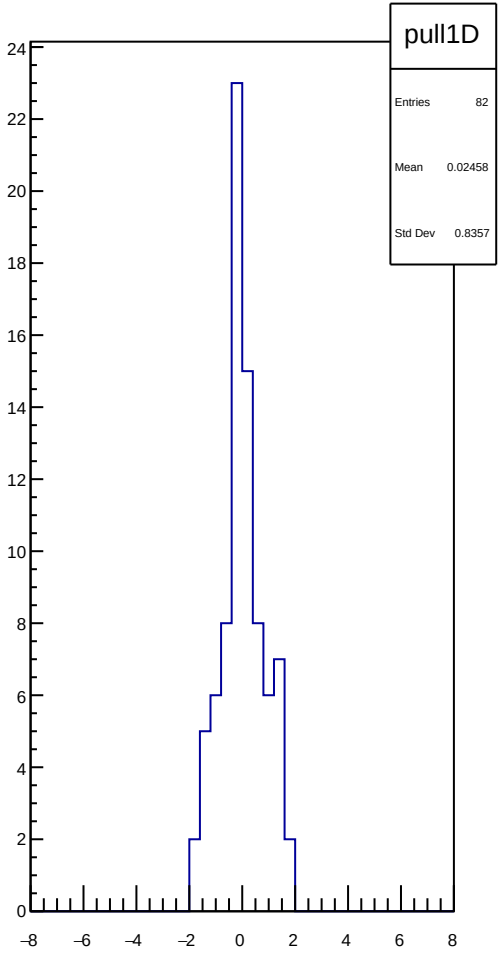

pull1D
Entries 82
Mean −0.03009
Std Dev 0.9488

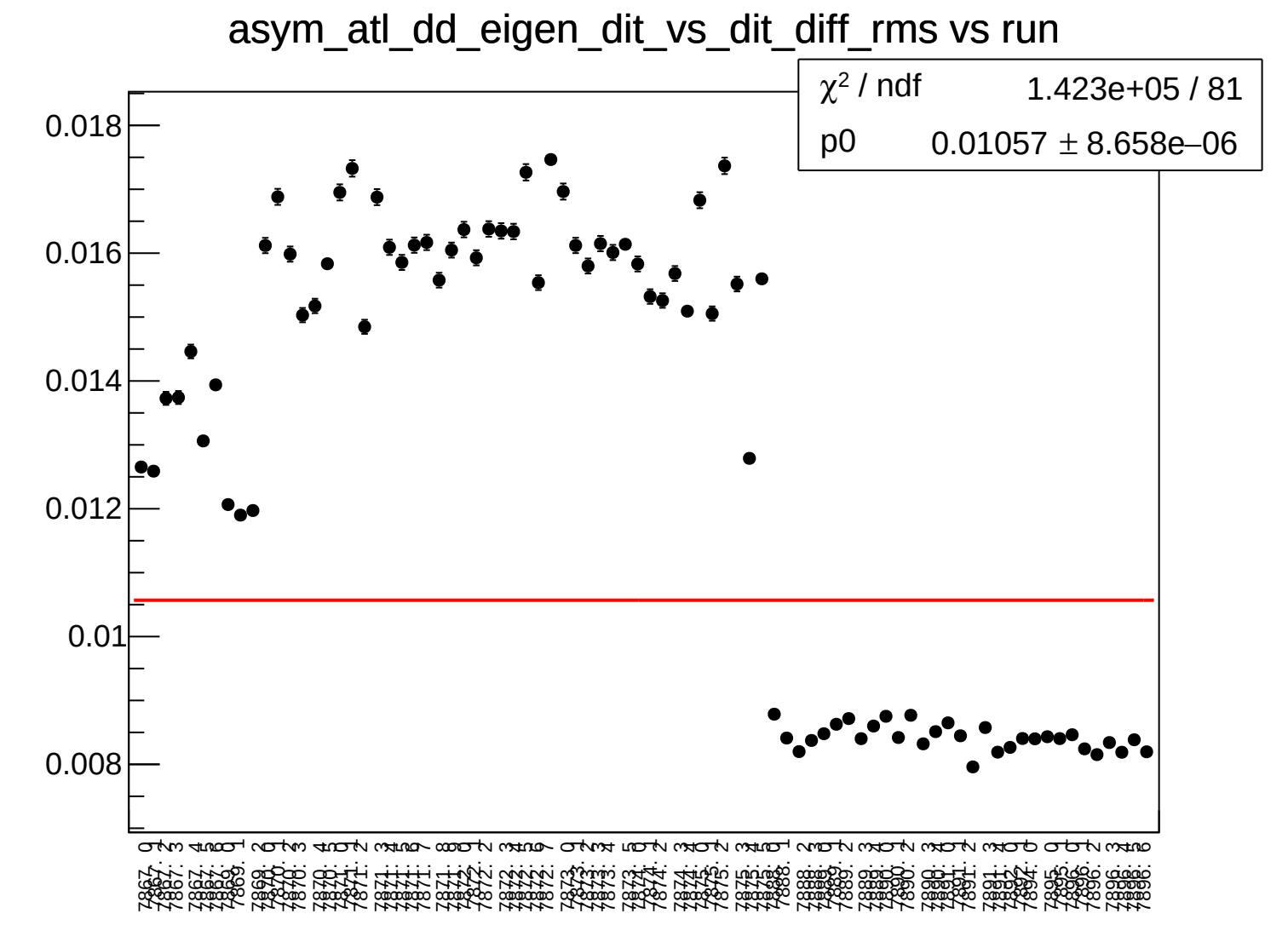

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 81
p0 212 ± 0.1722
500
400
300
200
100

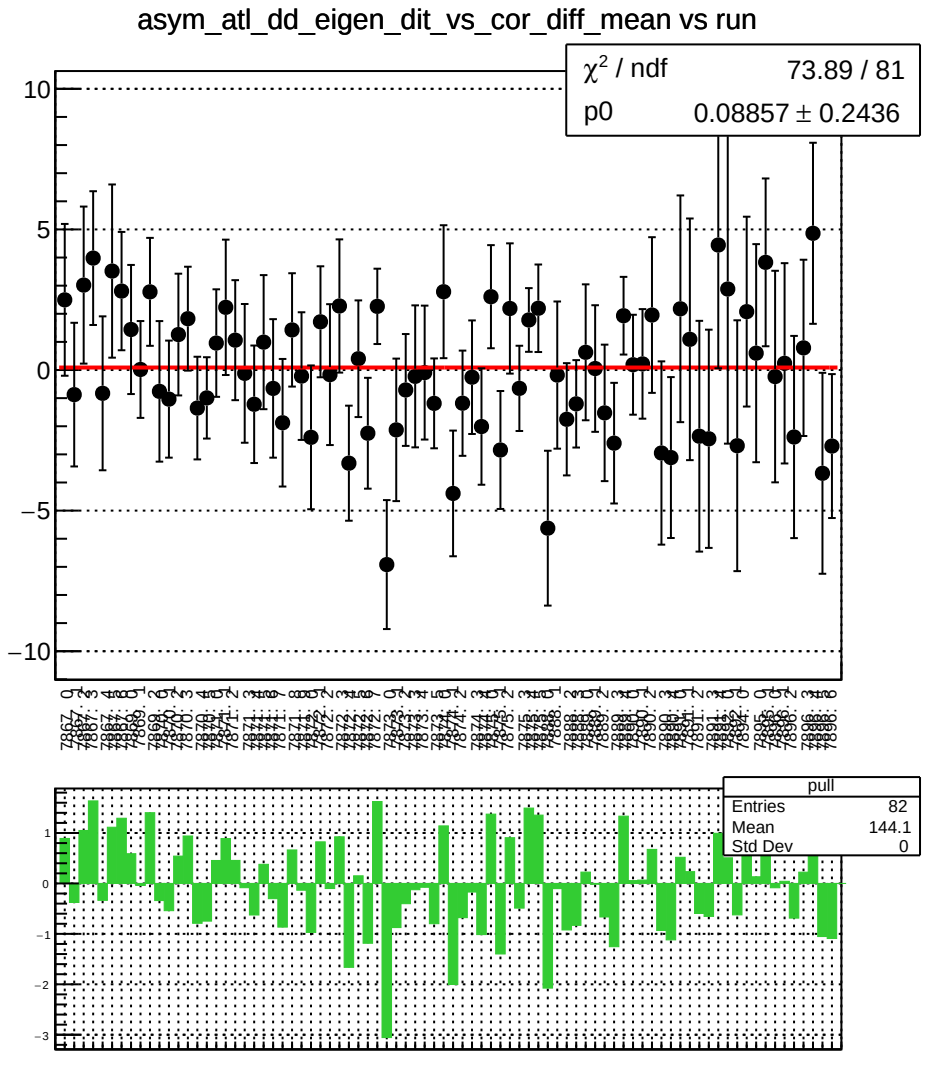

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.89 / 81
p0 0.08855 ± 0.2436
pull
Entries 82
Mean 144.1
Std Dev 0
pull1D
Entries 82
Mean −0.03009
Std Dev 0.9488

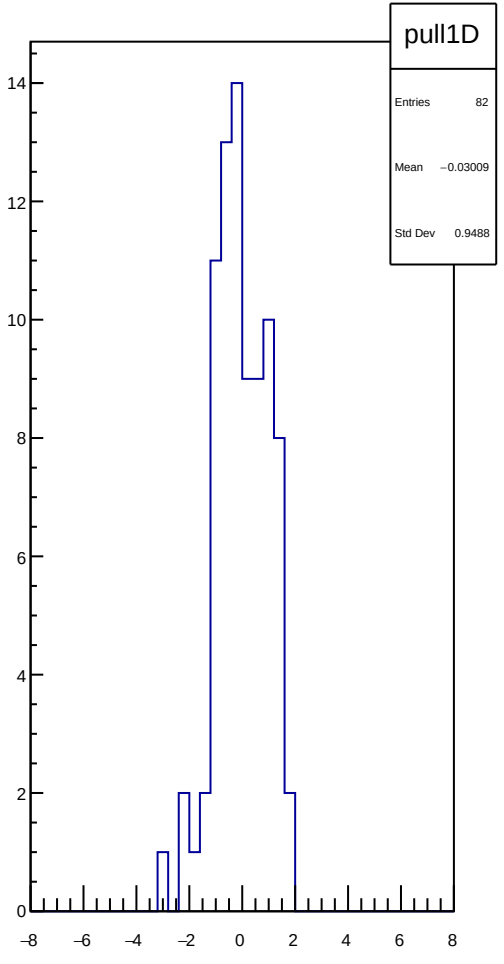

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 81
p0 212 ± 0.1722
500
400
300
200
100

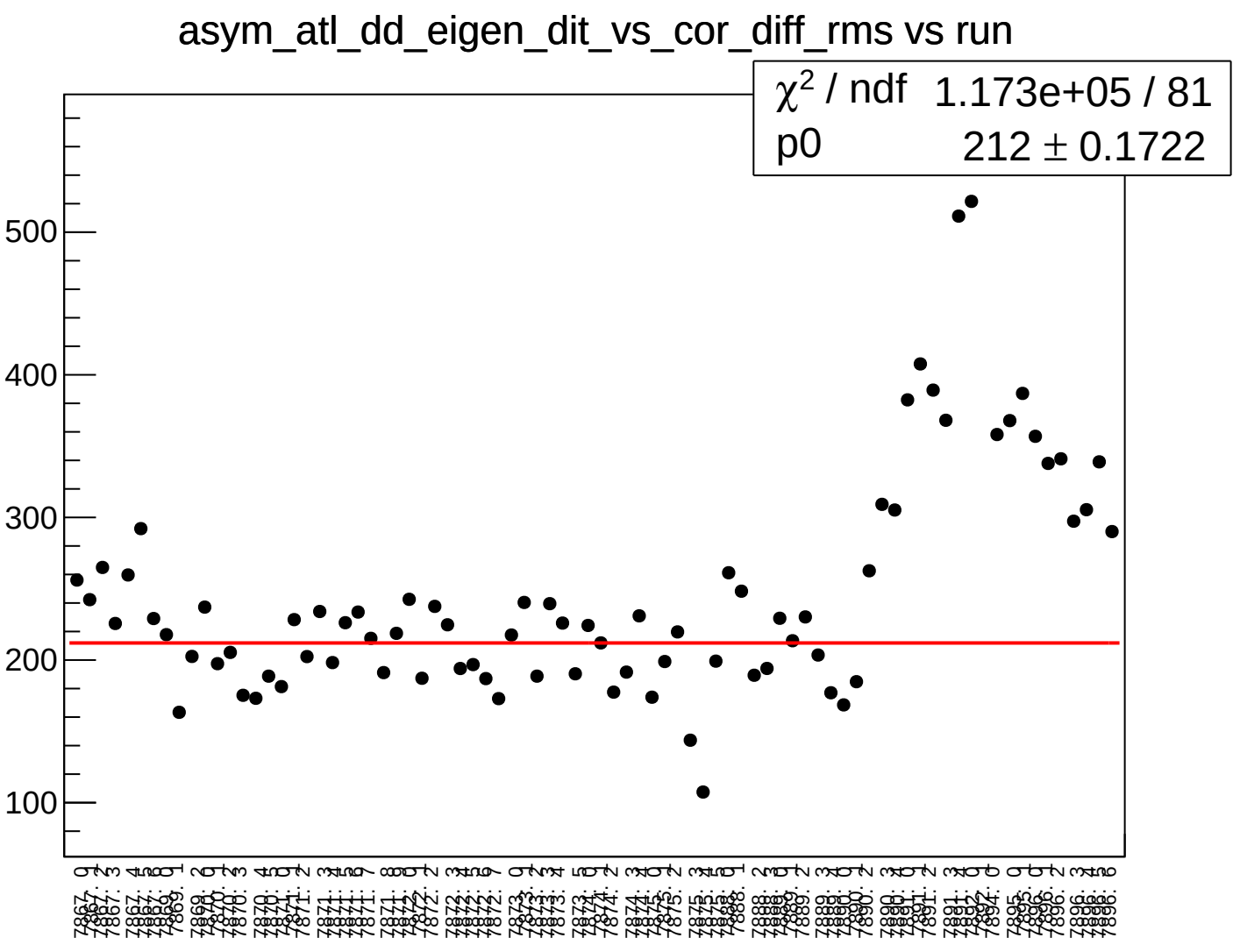

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.32 / 81
p0 1.168e−05 ± 1.224e−05
pull
Entries 82
Mean −16.74
Std Dev 0

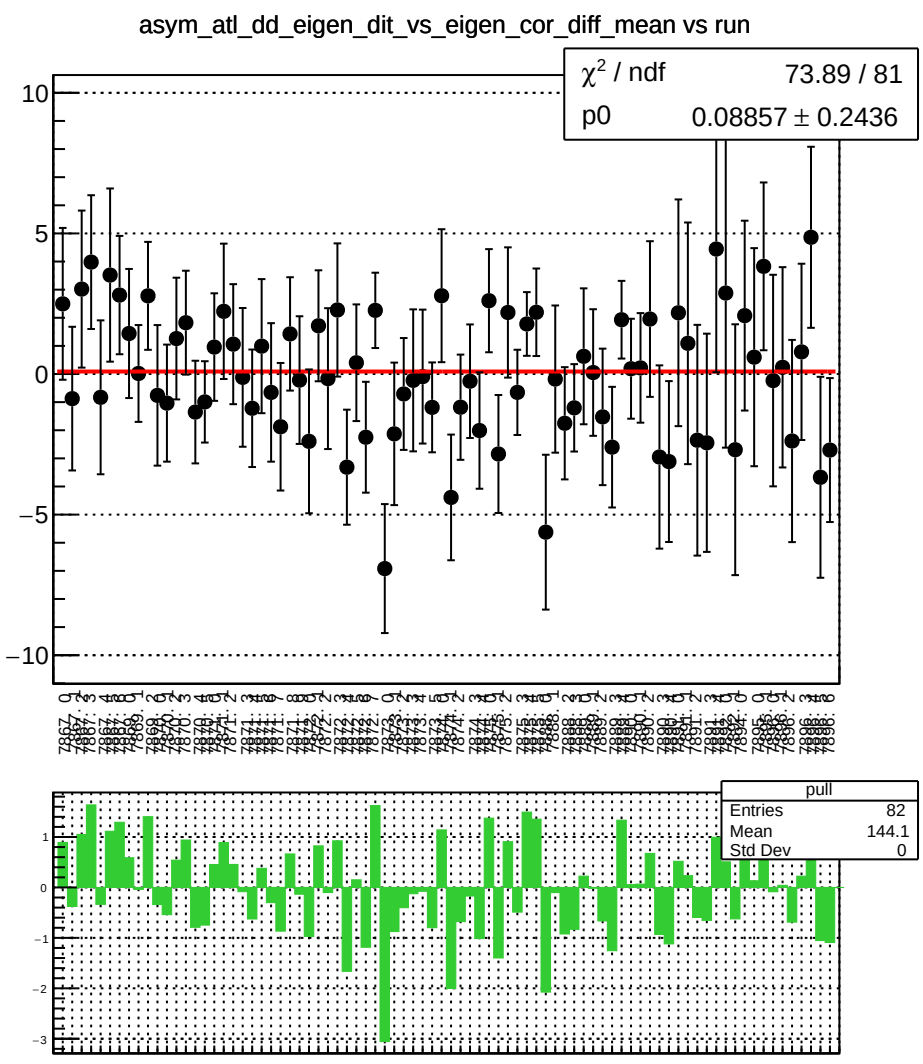

pull1D
Entries 82
Mean 0.02458
Std Dev 0.8357

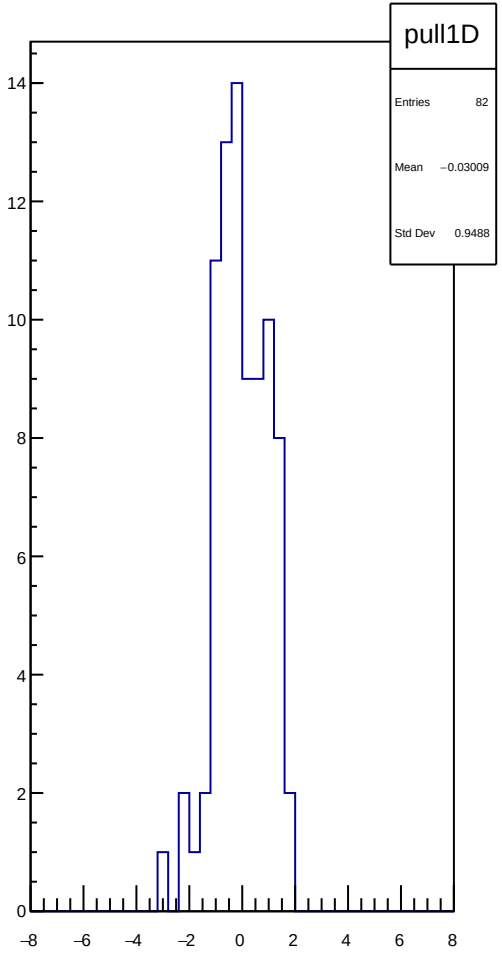

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.423e+05 / 81
p0 0.01057 ± 8.658e–06
0.018
0.016
0.014
0.012
0.01
0.008

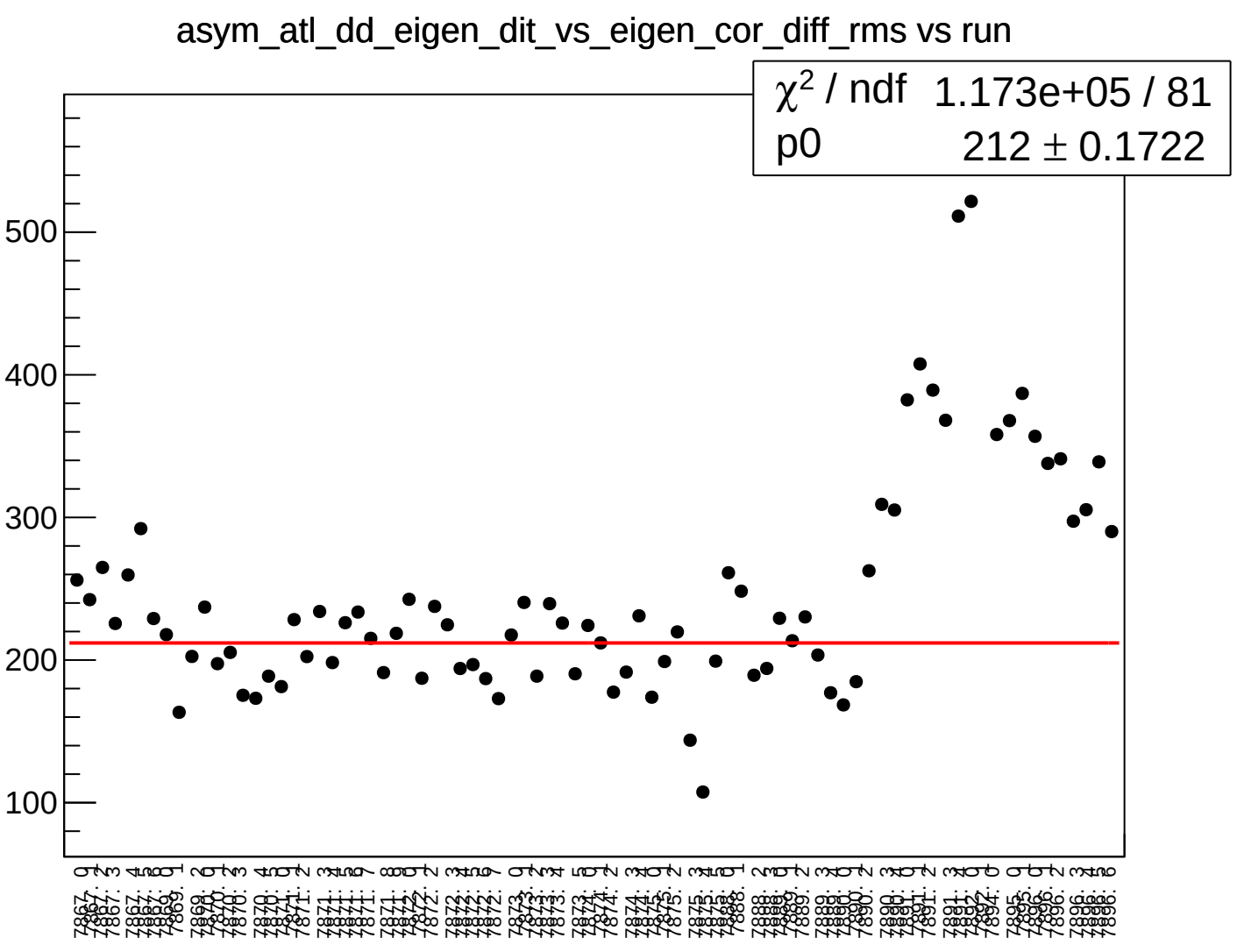

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.89 / 81
p0 0.08857 ± 0.2436
pull
Entries 82
Mean 144.1
Std Dev 0

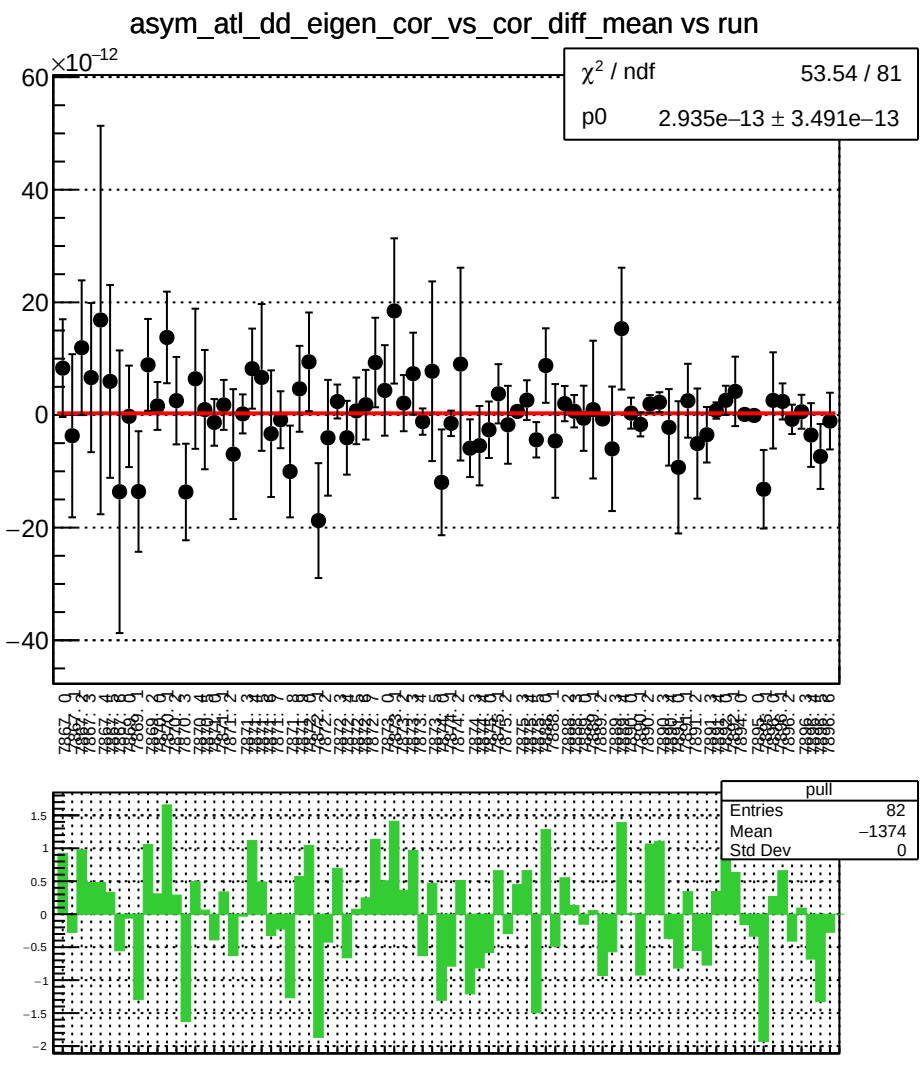

pull1D
Entries 82
Mean −0.03009
Std Dev 0.9488

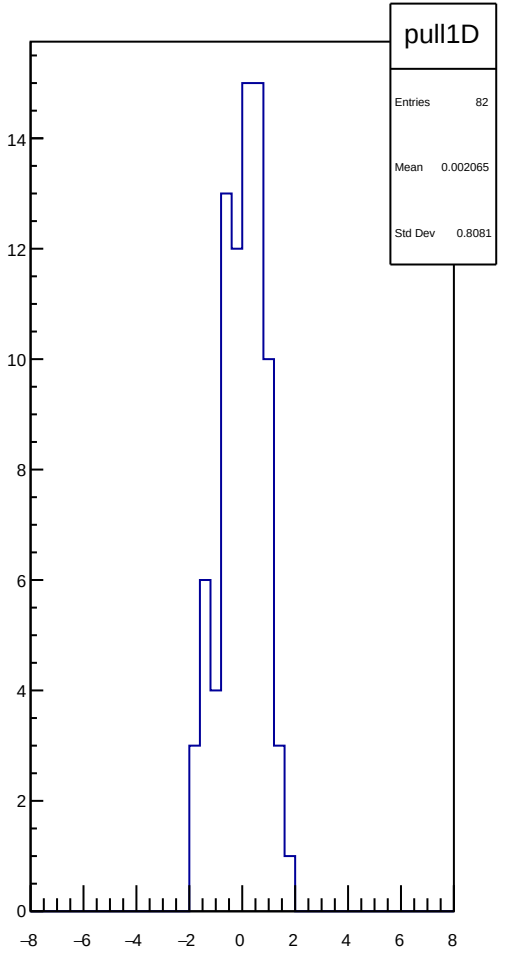

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 81
p0 212 ± 0.1722
500
400
300
200
100

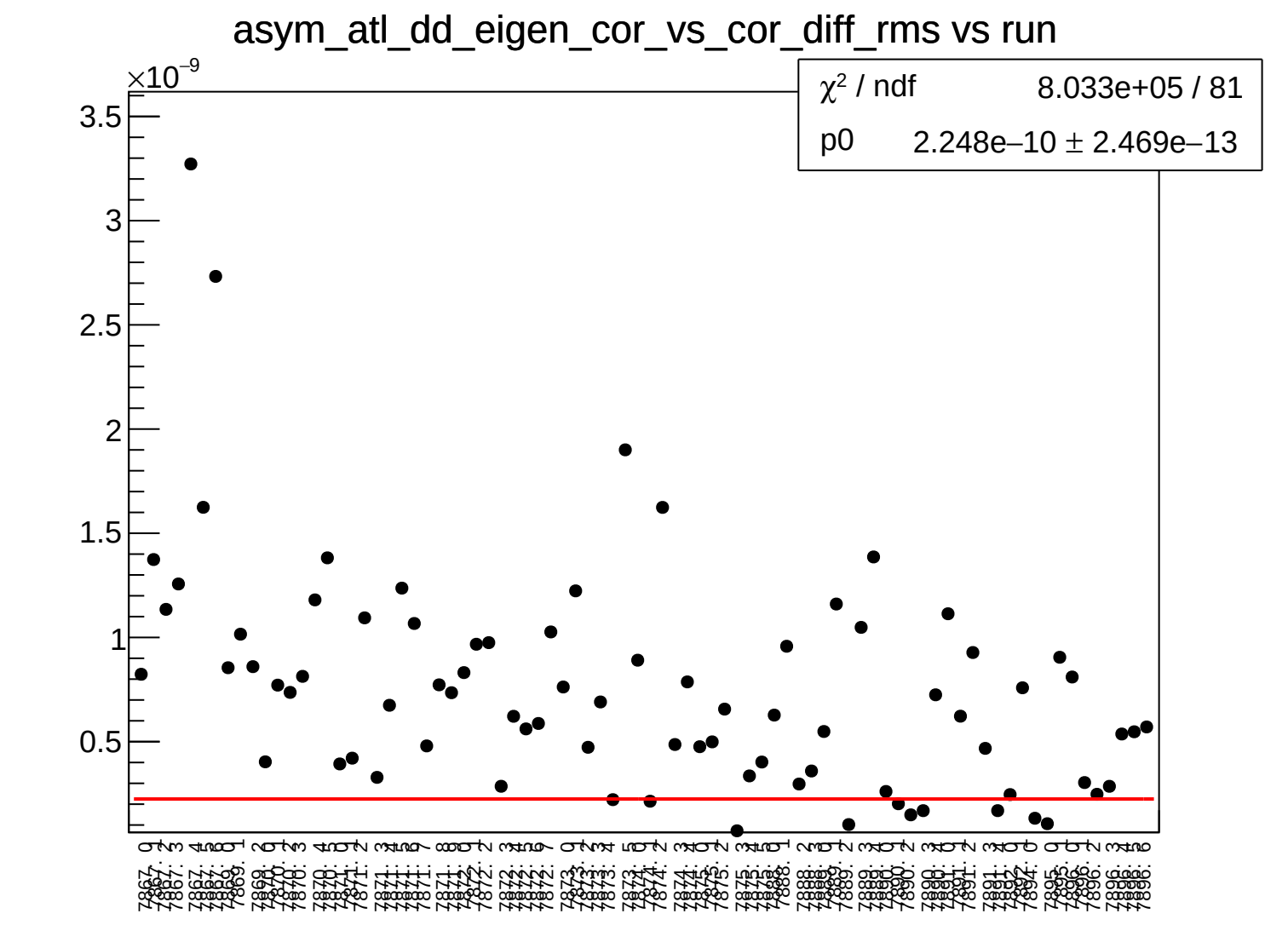

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.89 / 81
p0 0.08857 ± 0.2436
pull
Entries 82
Mean 144.1
Std Dev 0

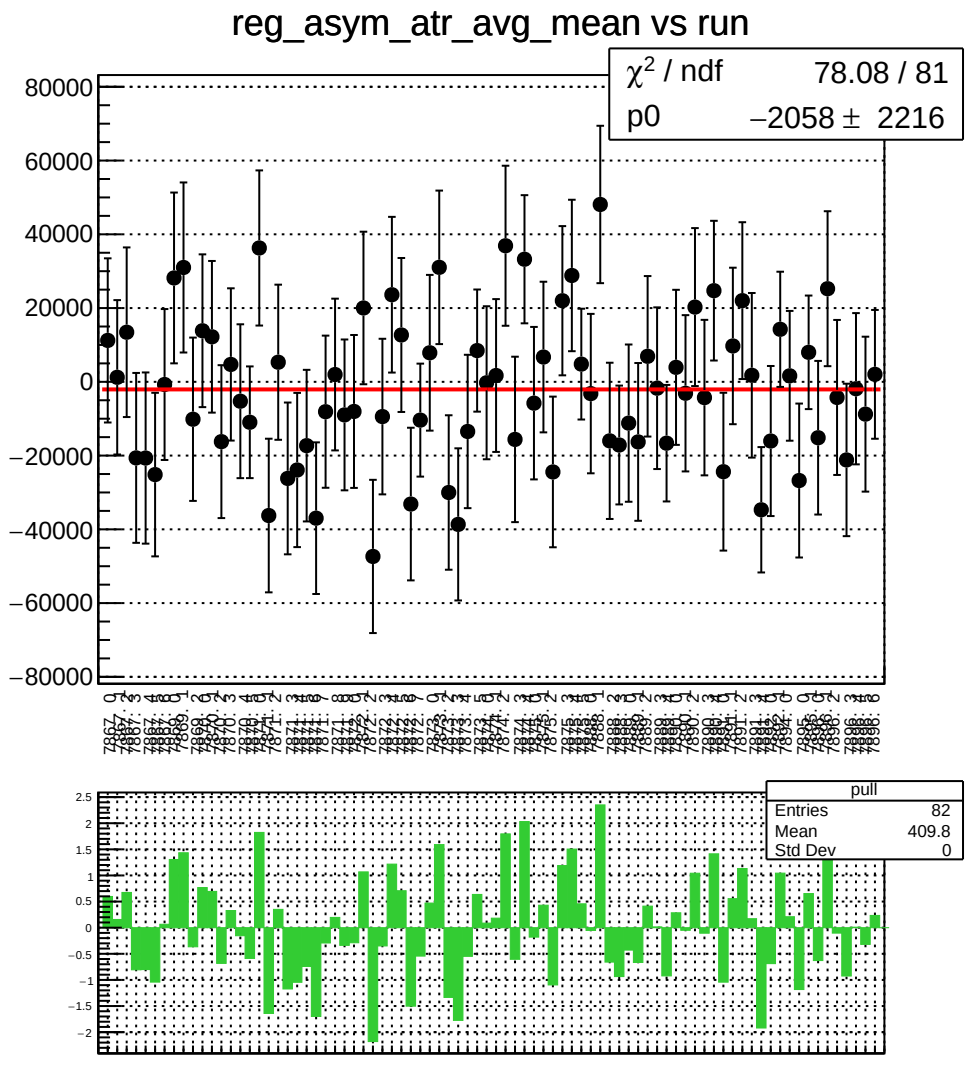

pull1D
Entries 82
Mean −0.03009
Std Dev 0.9488

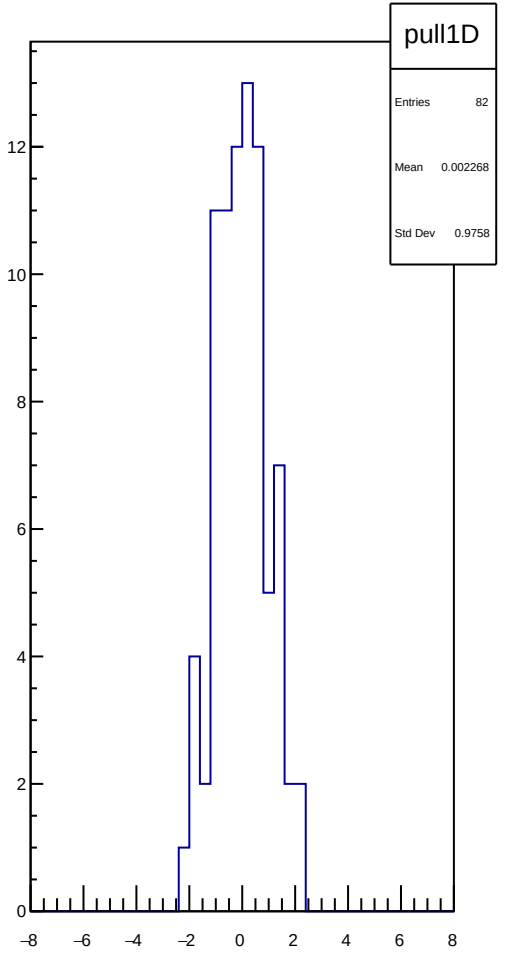

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 81
p0 212 ± 0.1722
500
400
300
200
100

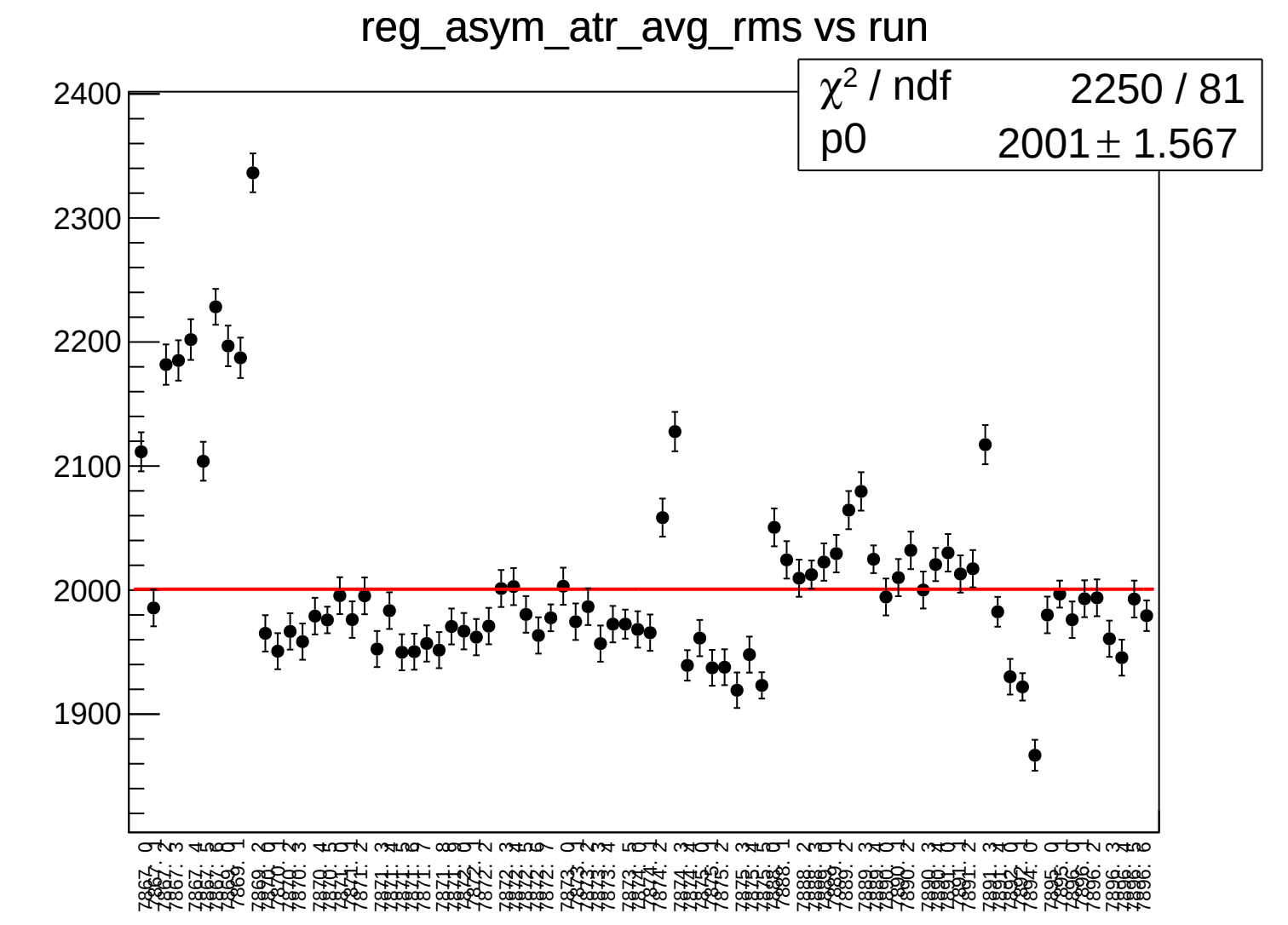

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.54 / 81
p0 2.935e−13 ± 3.491e−13
pull
Entries 82
Mean −1374
Std Dev 0

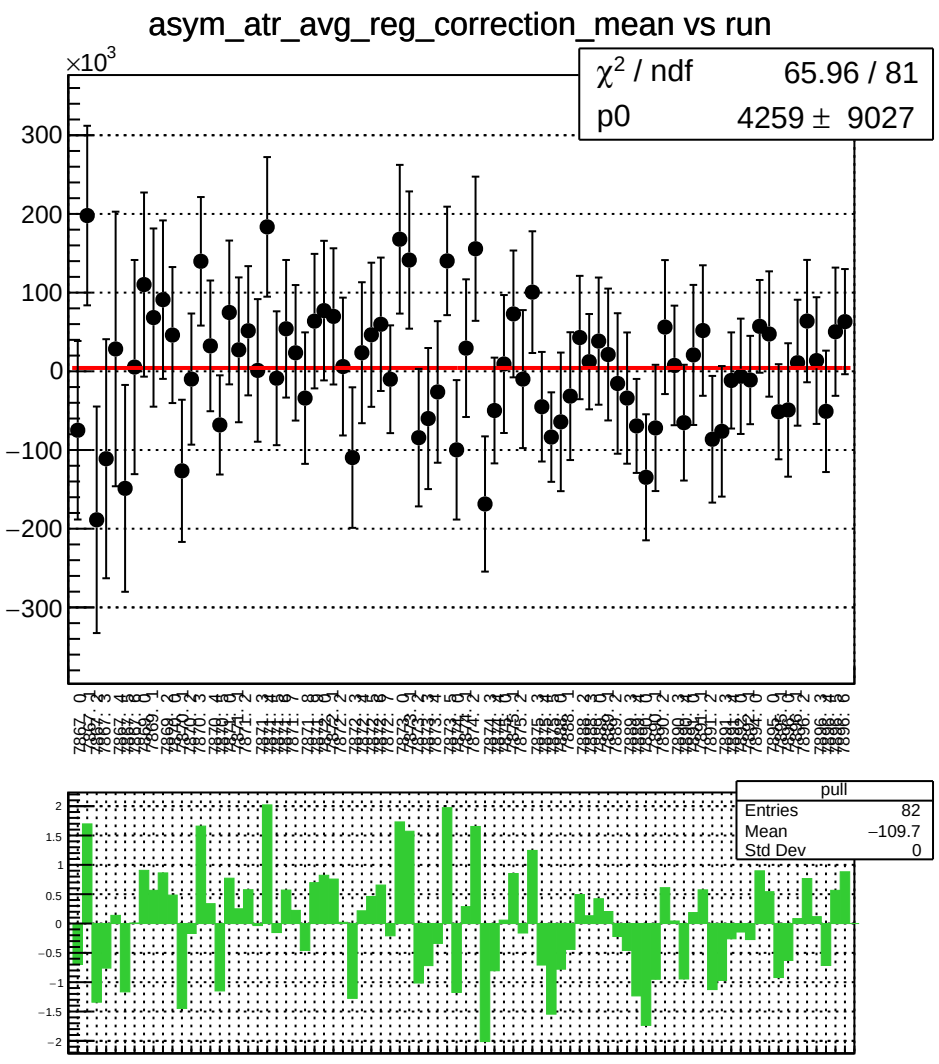

pull1D
Entries 82
Mean 0.002065
Std Dev 0.8081

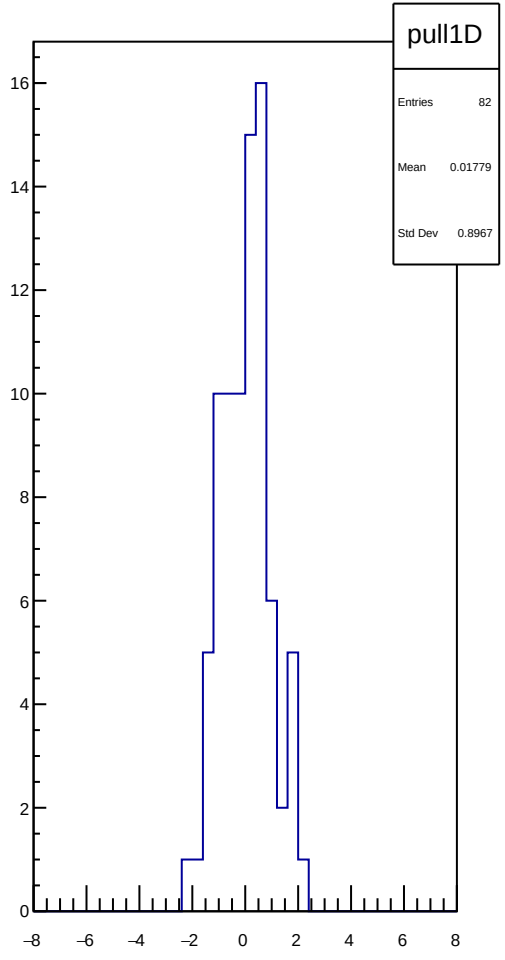

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.033e+05 / 81
p0 2.248e−10 ± 2.469e−13
3.5
3
2.5
2
1.5
1
0.5

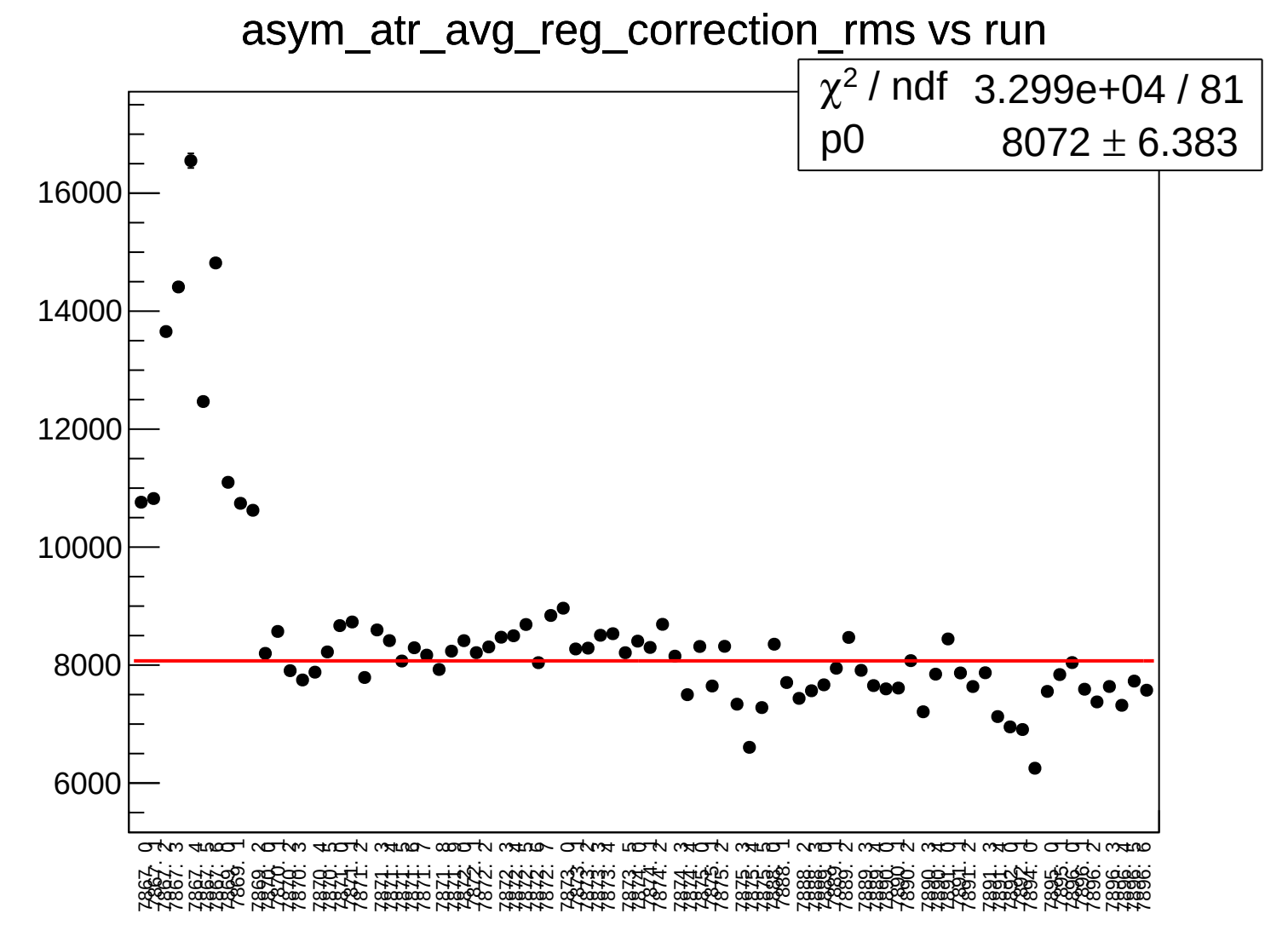

reg_asym_atr_avg_mean vs run
χ² / ndf 78.08 / 81
p0 −2058 ± 2216
pull
Entries 82
Mean 409.8
Std Dev 0

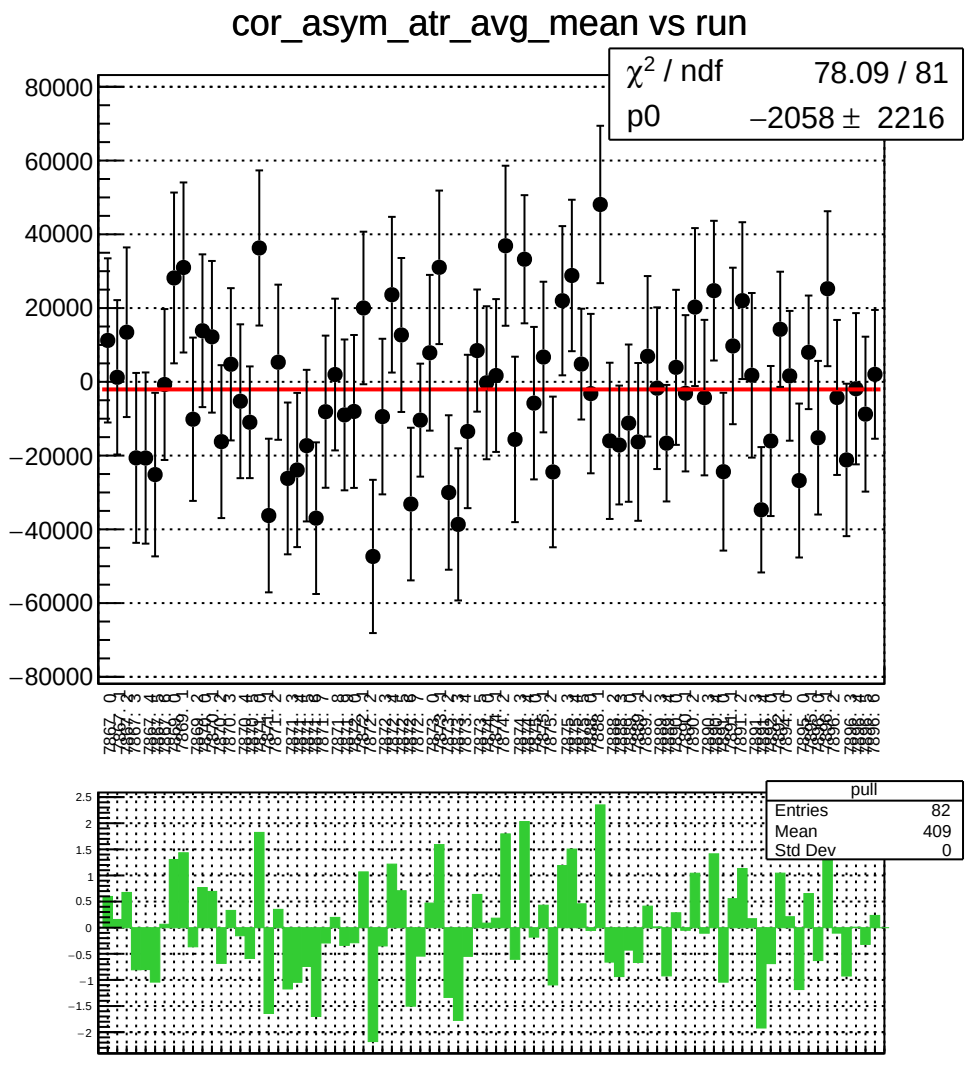

pull1D
Entries 82
Mean 0.002268
Std Dev 0.9758

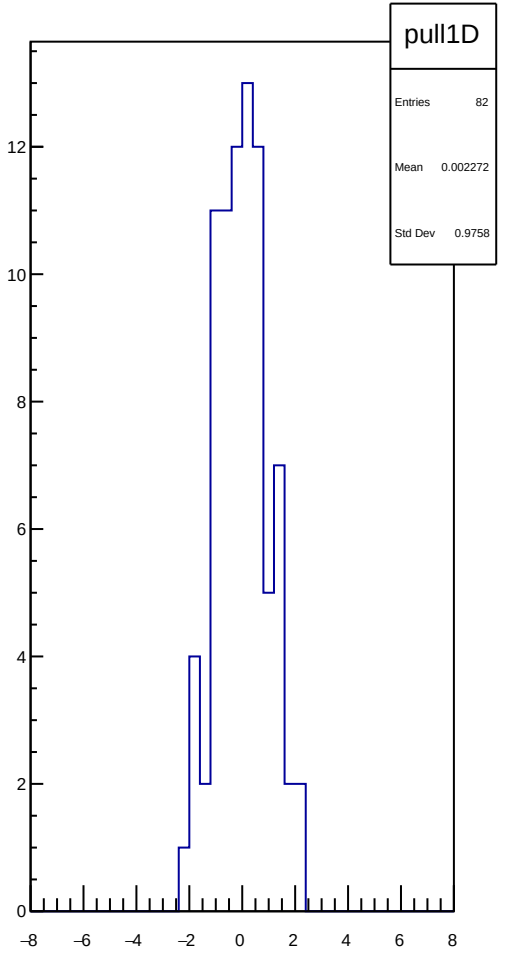

reg_asym_atr_avg_rms vs run
χ² / ndf 2250 / 81
p0 2001 ± 1.567
2400
2300
2200
2100
2000
1900

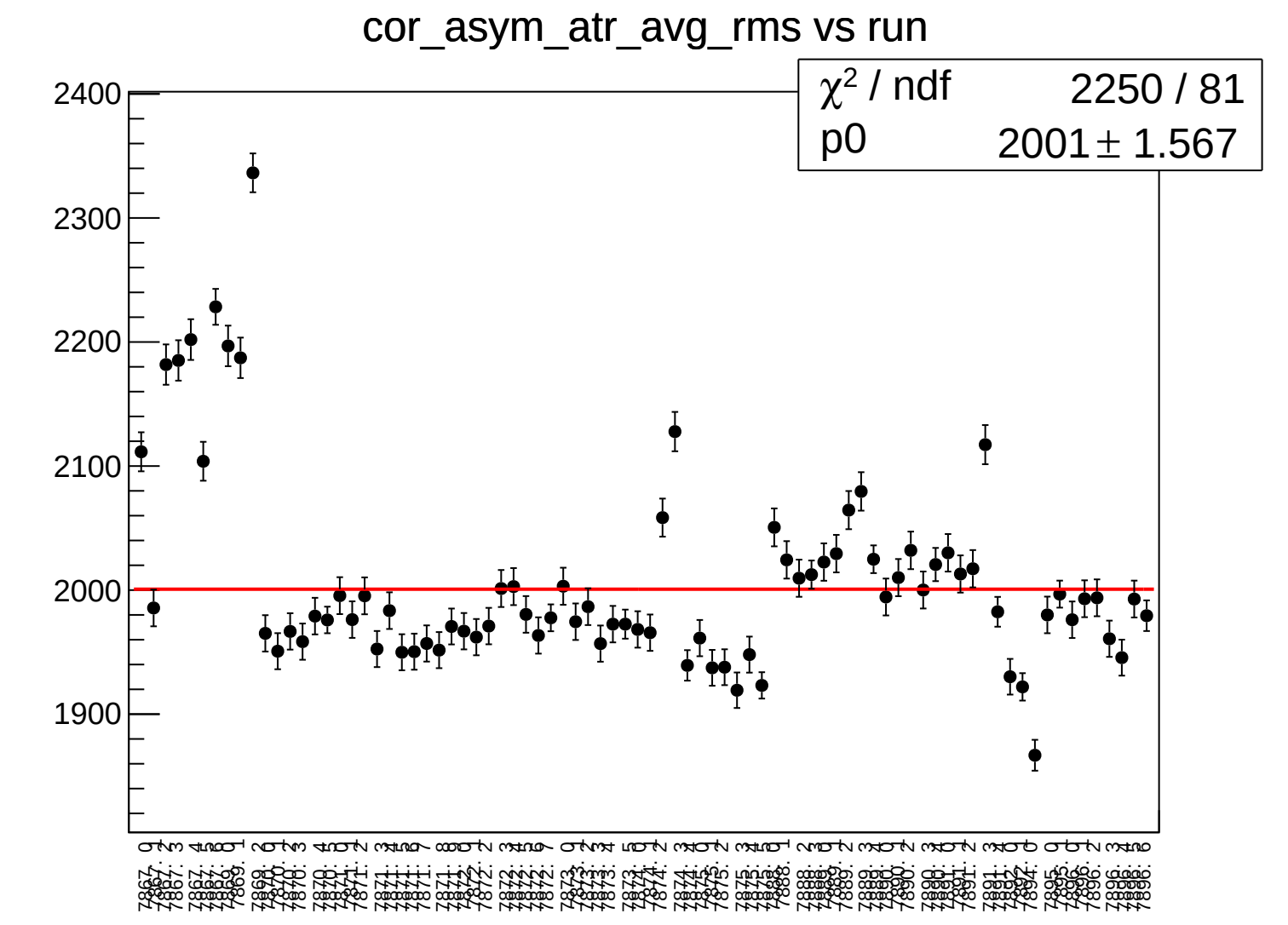

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 65.96 / 81
p0 4259 ± 9027
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −109.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

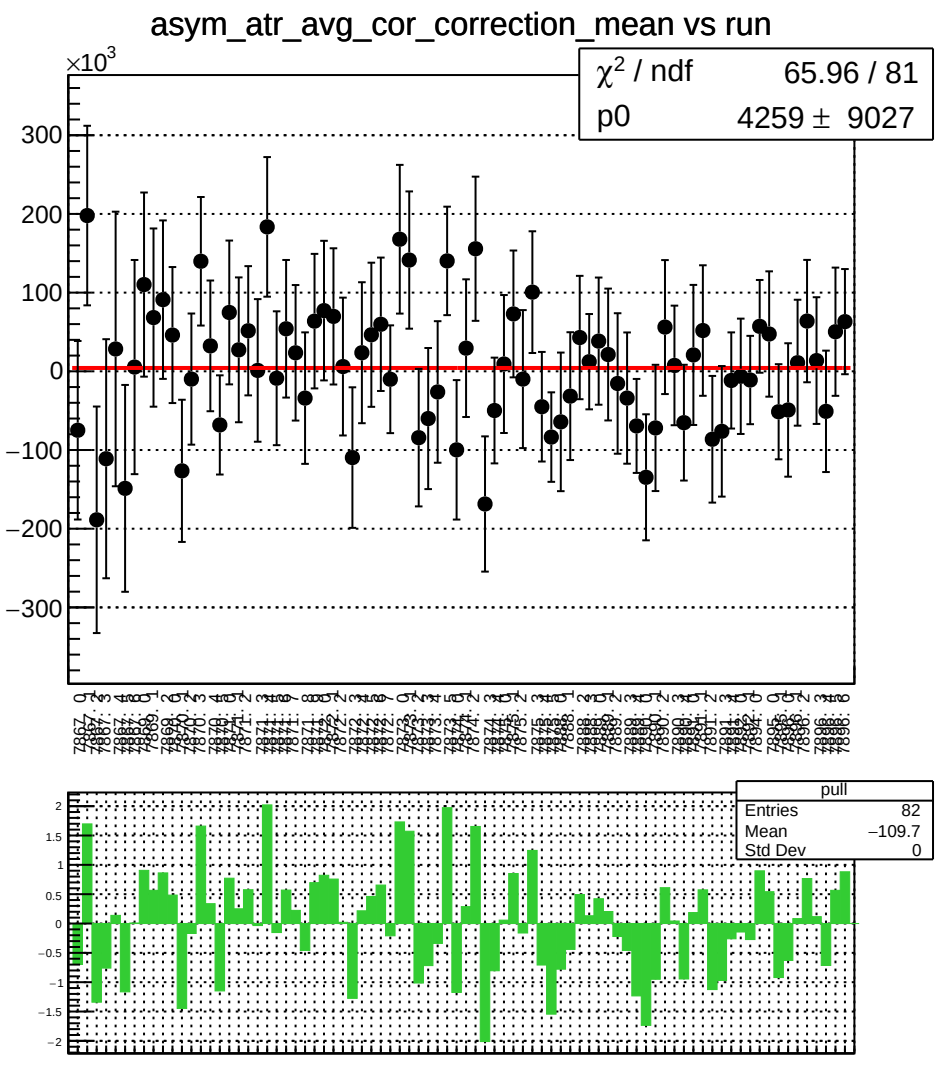

pull1D
Entries 82
Mean 0.01779
Std Dev 0.8967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

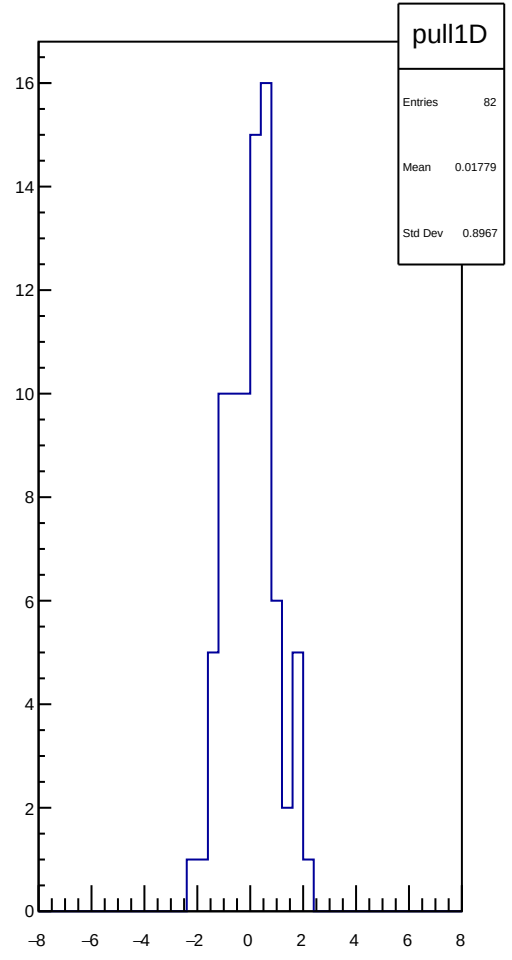

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 3.299e+04 / 81
p0 8072 ± 6.383
16000
14000
12000
10000
8000
6000

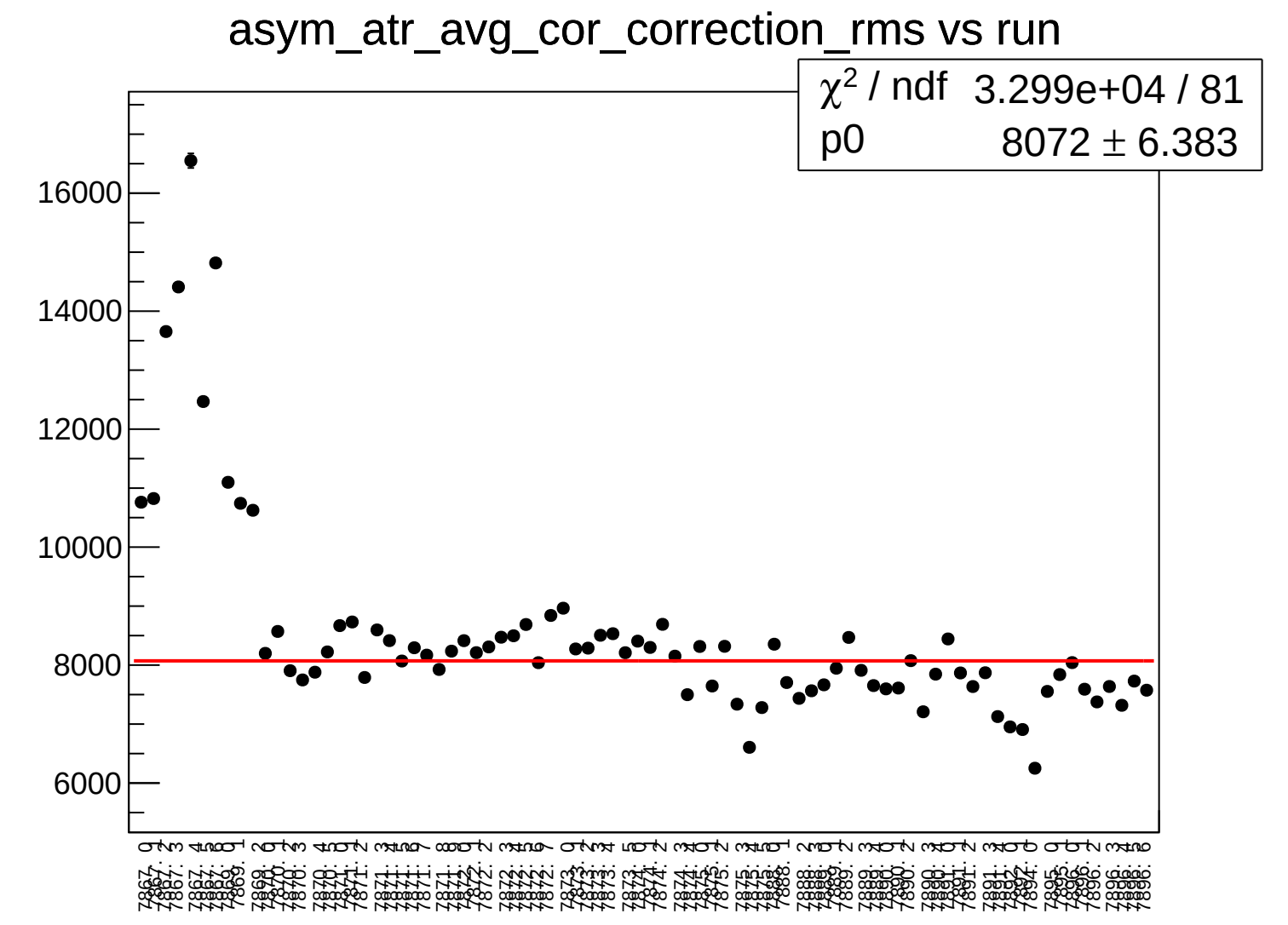

cor_asym_atr_avg_mean vs run
χ² / ndf 78.09 / 81
p0 −2058 ± 2216
pull
Entries 82
Mean 409
Std Dev 0

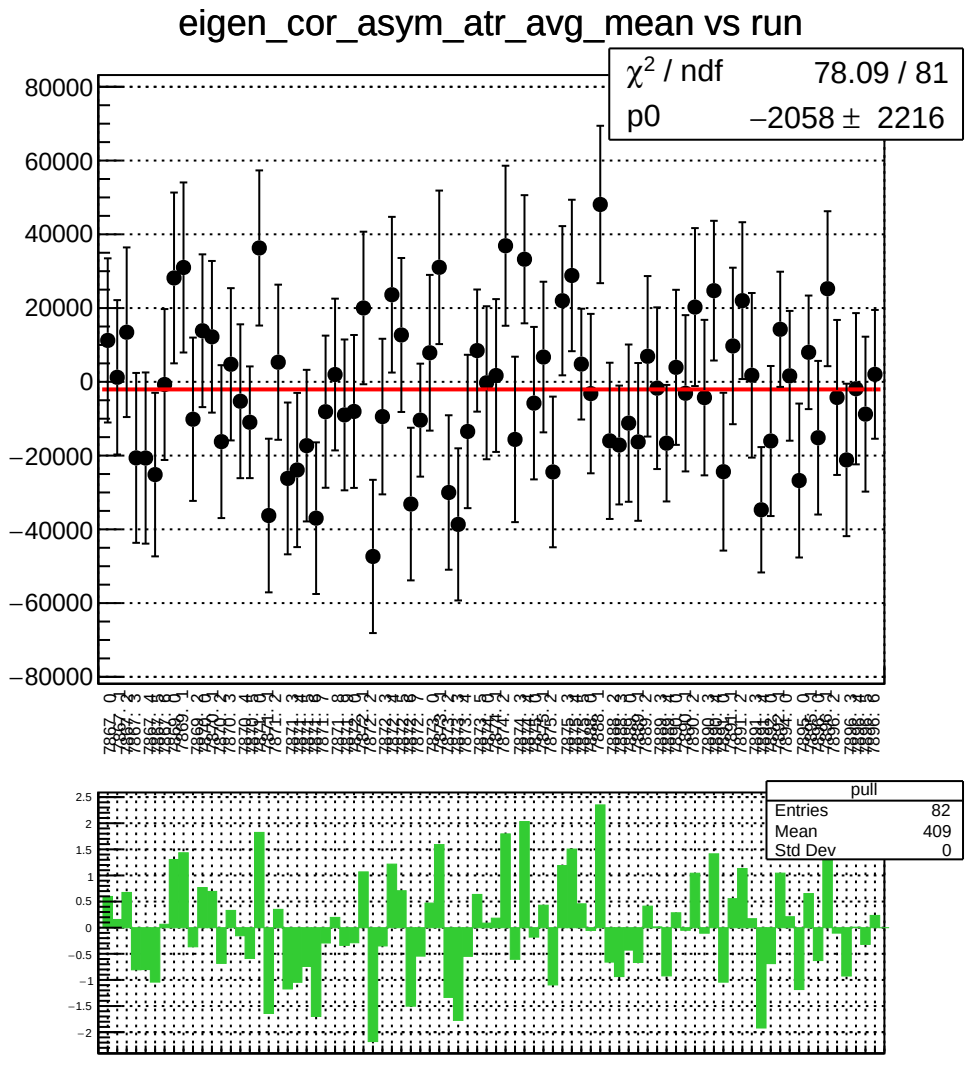

pull1D
Entries 82
Mean 0.002272
Std Dev 0.9758

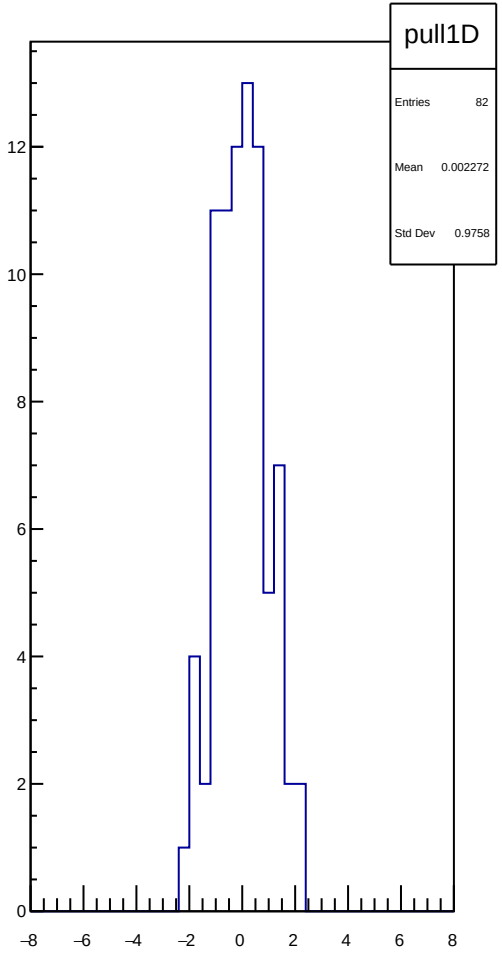

cor_asym_atr_avg_rms vs run
χ^2 / ndf 2250 / 81
p0 2001 ± 1.567
2400
2300
2200
2100
2000
1900

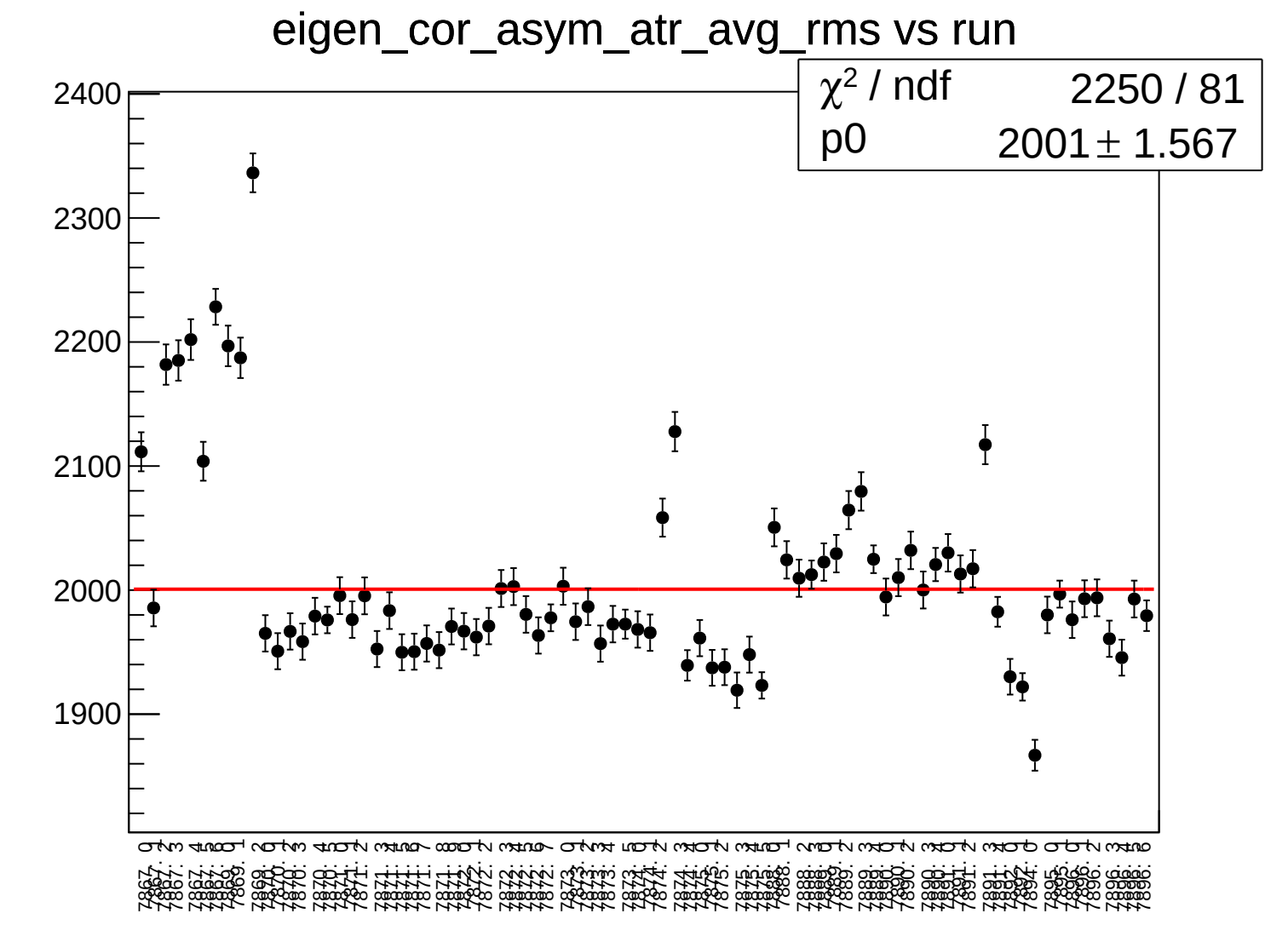

asym_atr_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.96 / 81
p0 4259 ± 9027
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −109.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

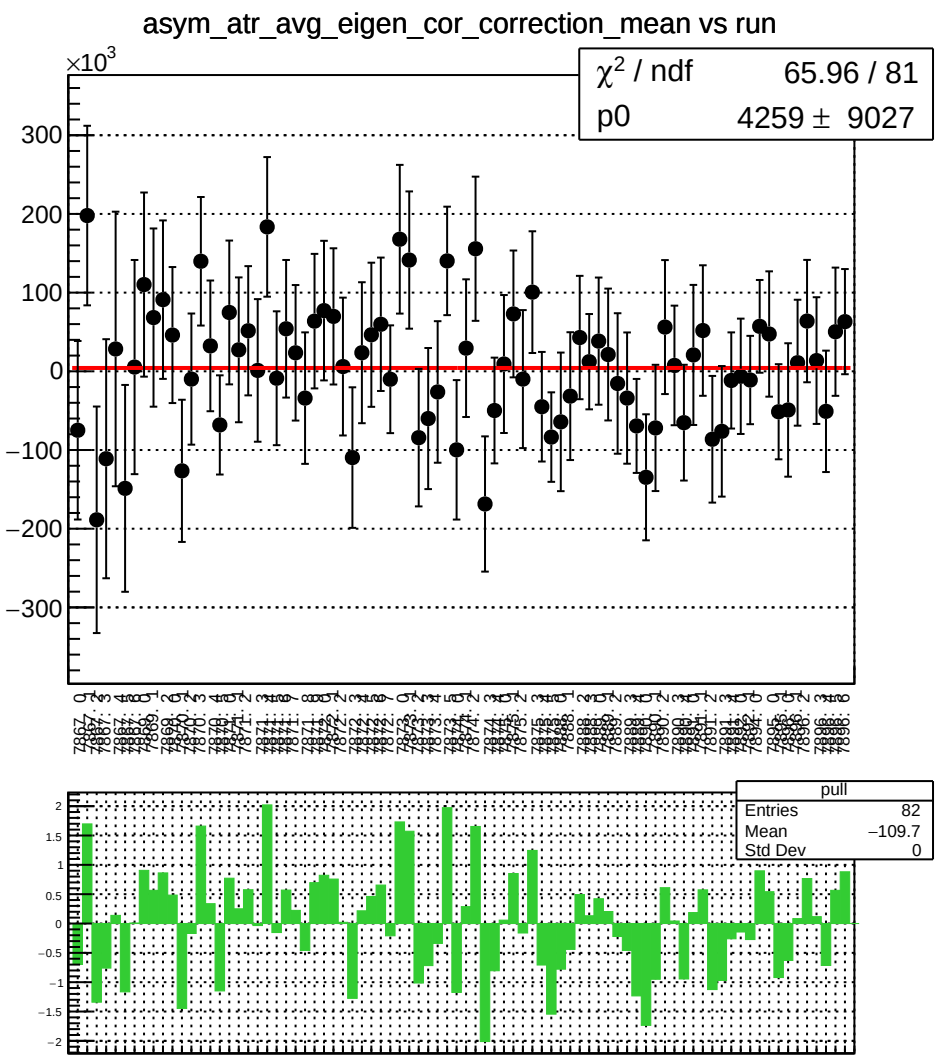

pull1D
Entries 82
Mean 0.01779
Std Dev 0.8967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

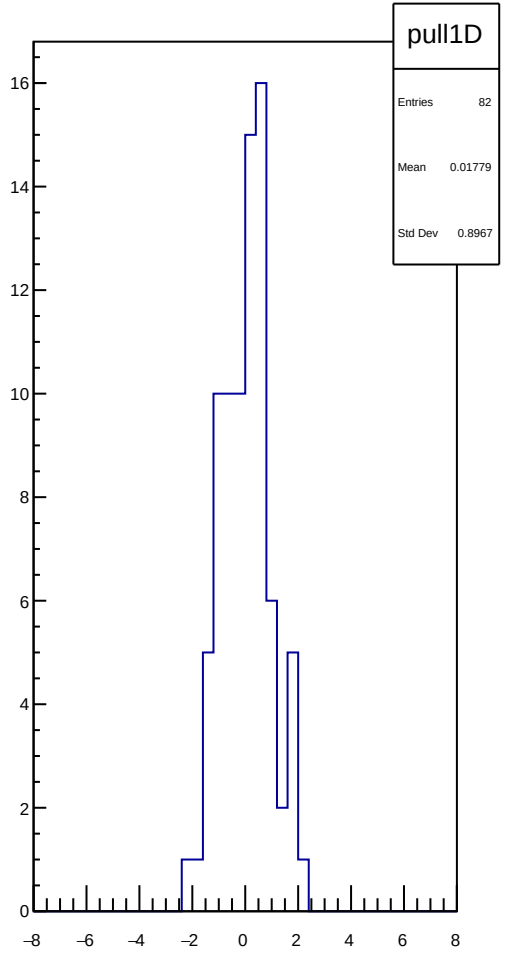

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3.299e+04 / 81
p0 8072 ± 6.383
16000
14000
12000
10000
8000
6000

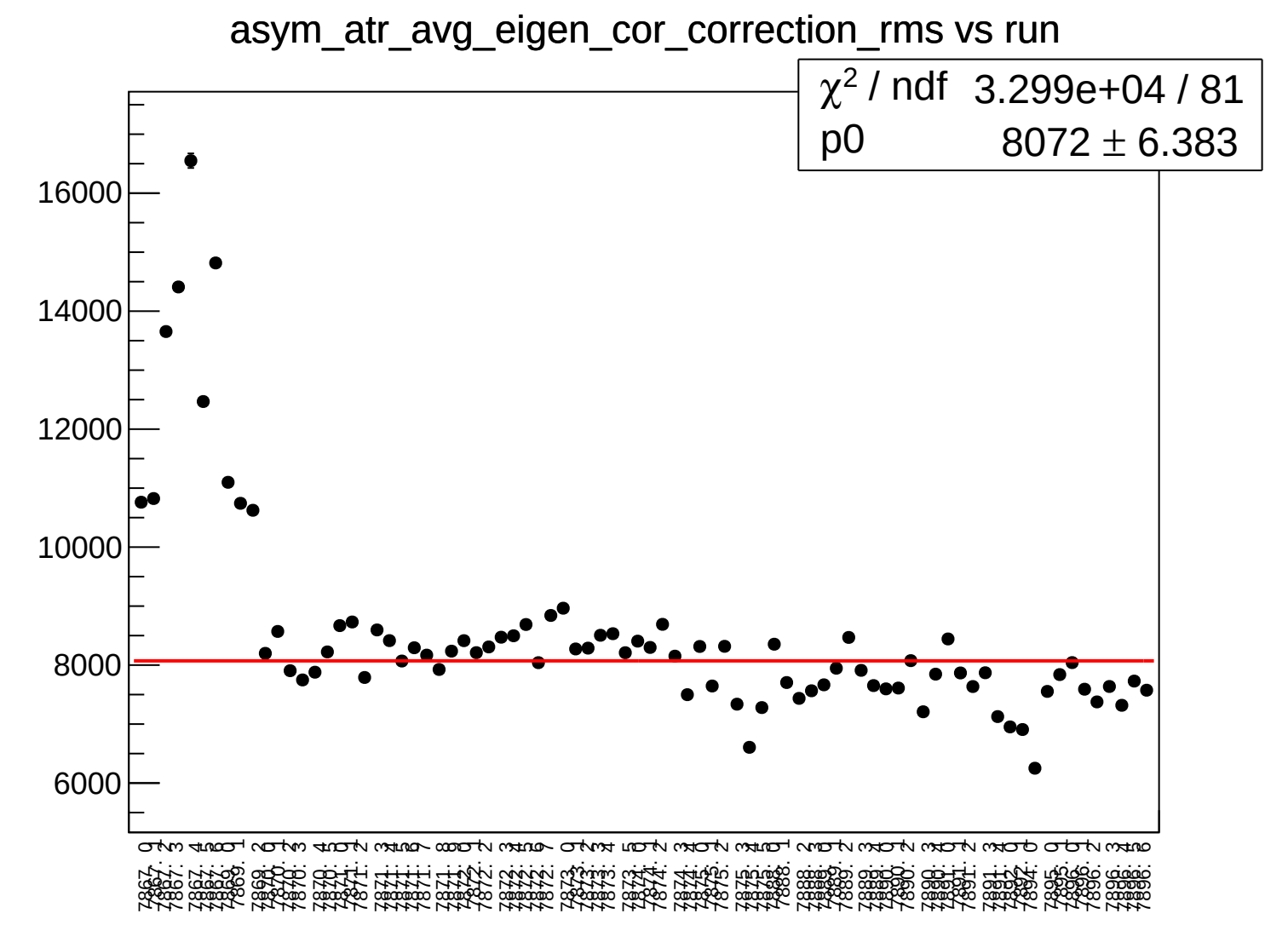

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 78.09 / 81
p0 −2058 ± 2216
pull
Entries 82
Mean 409
Std Dev 0

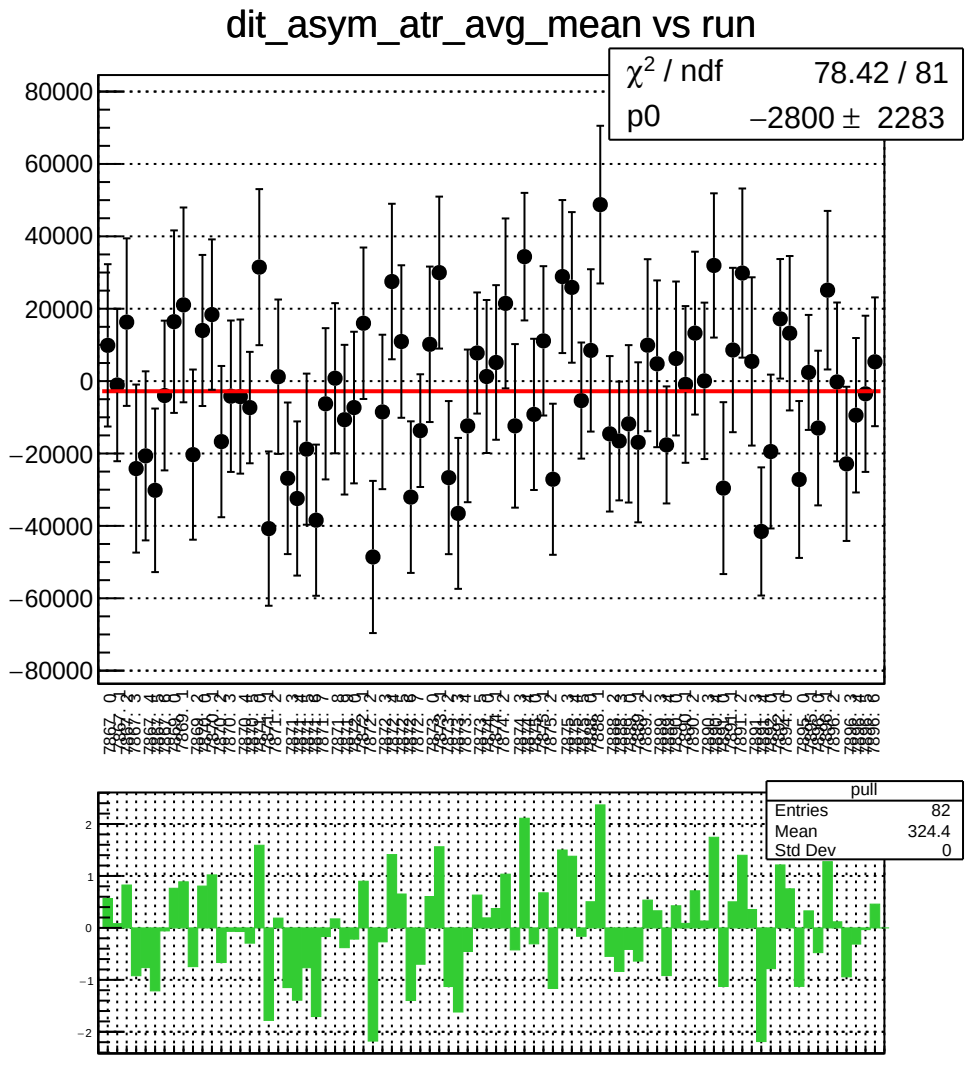

pull1D
Entries 82
Mean 0.002272
Std Dev 0.9758

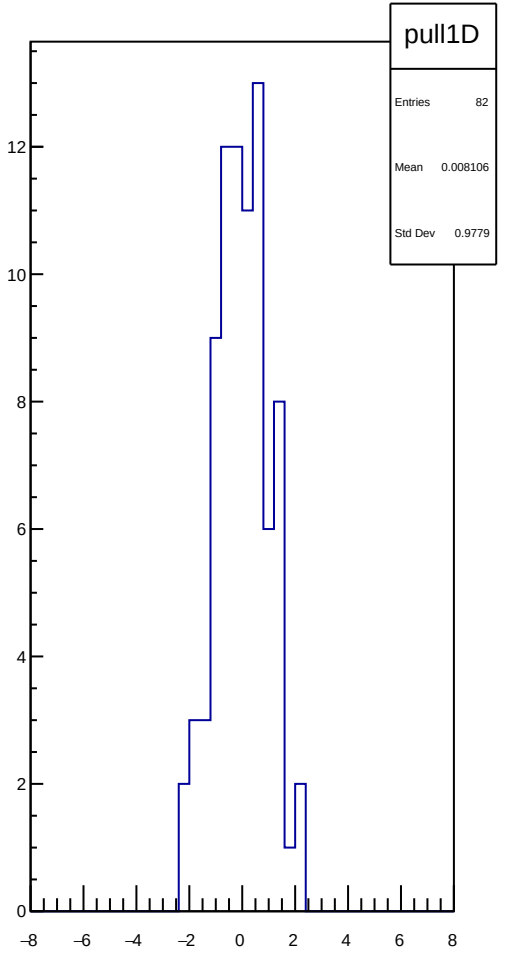

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 2250 / 81
p0 2001 ± 1.567
2400
2300
2200
2100
2000
1900

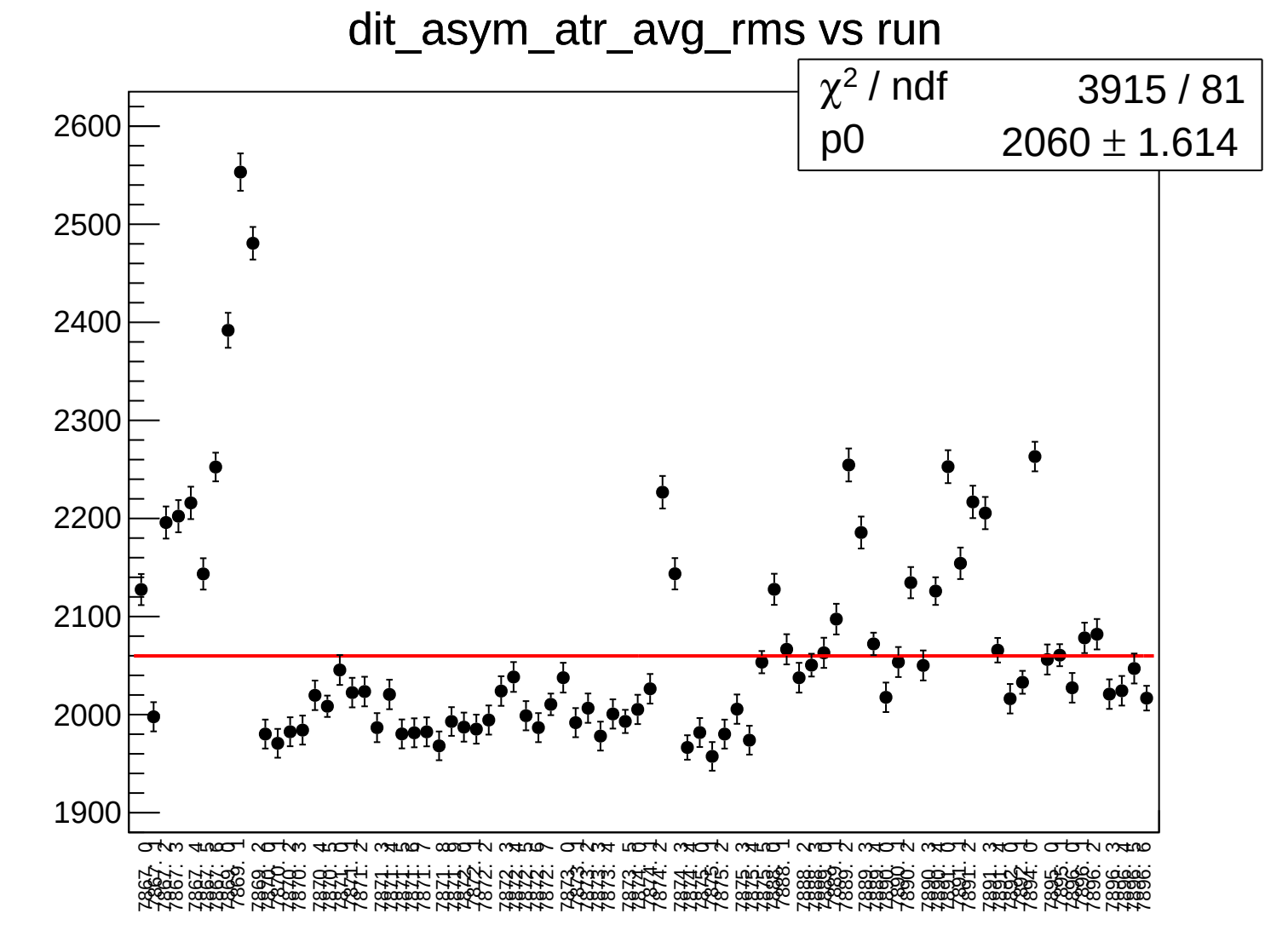

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.96 / 81
p0 4259 ± 9027
×10³
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −109.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

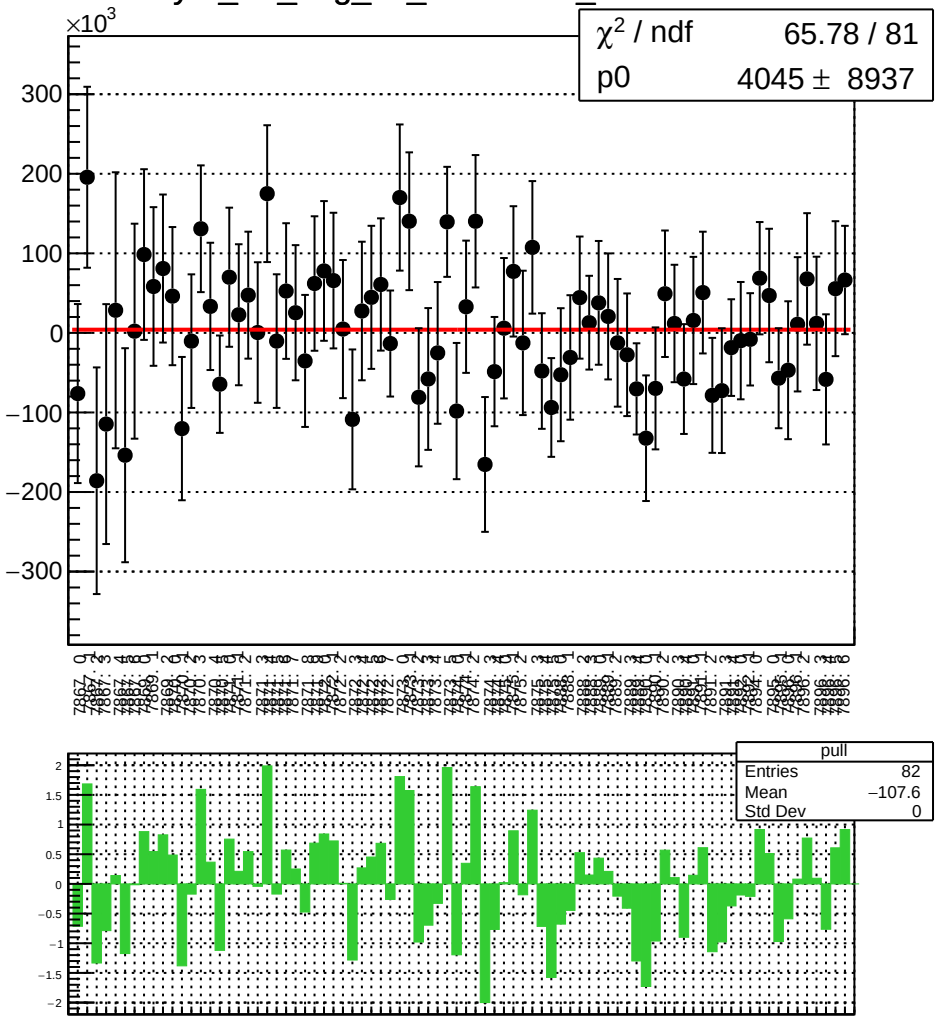

pull1D
Entries 82
Mean 0.01779
Std Dev 0.8967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

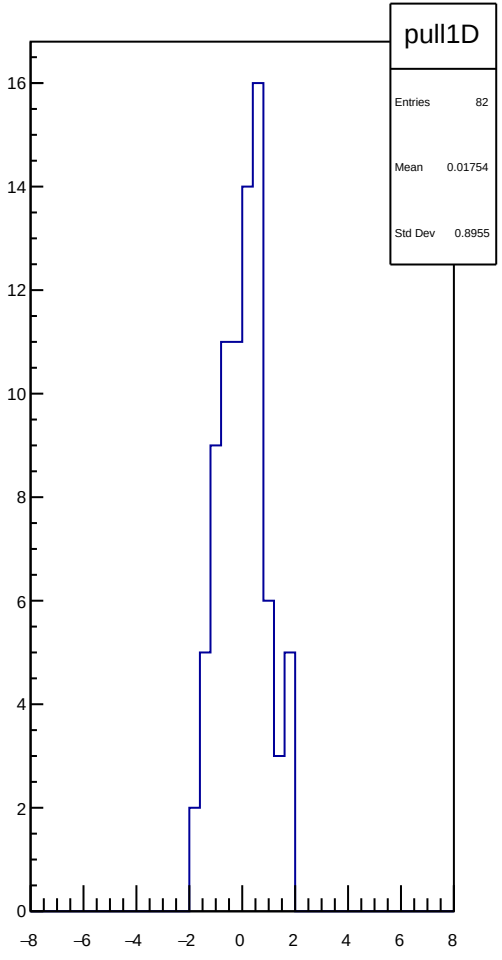

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.299e+04 / 81
p0 8072 ± 6.383
16000
14000
12000
10000
8000
6000

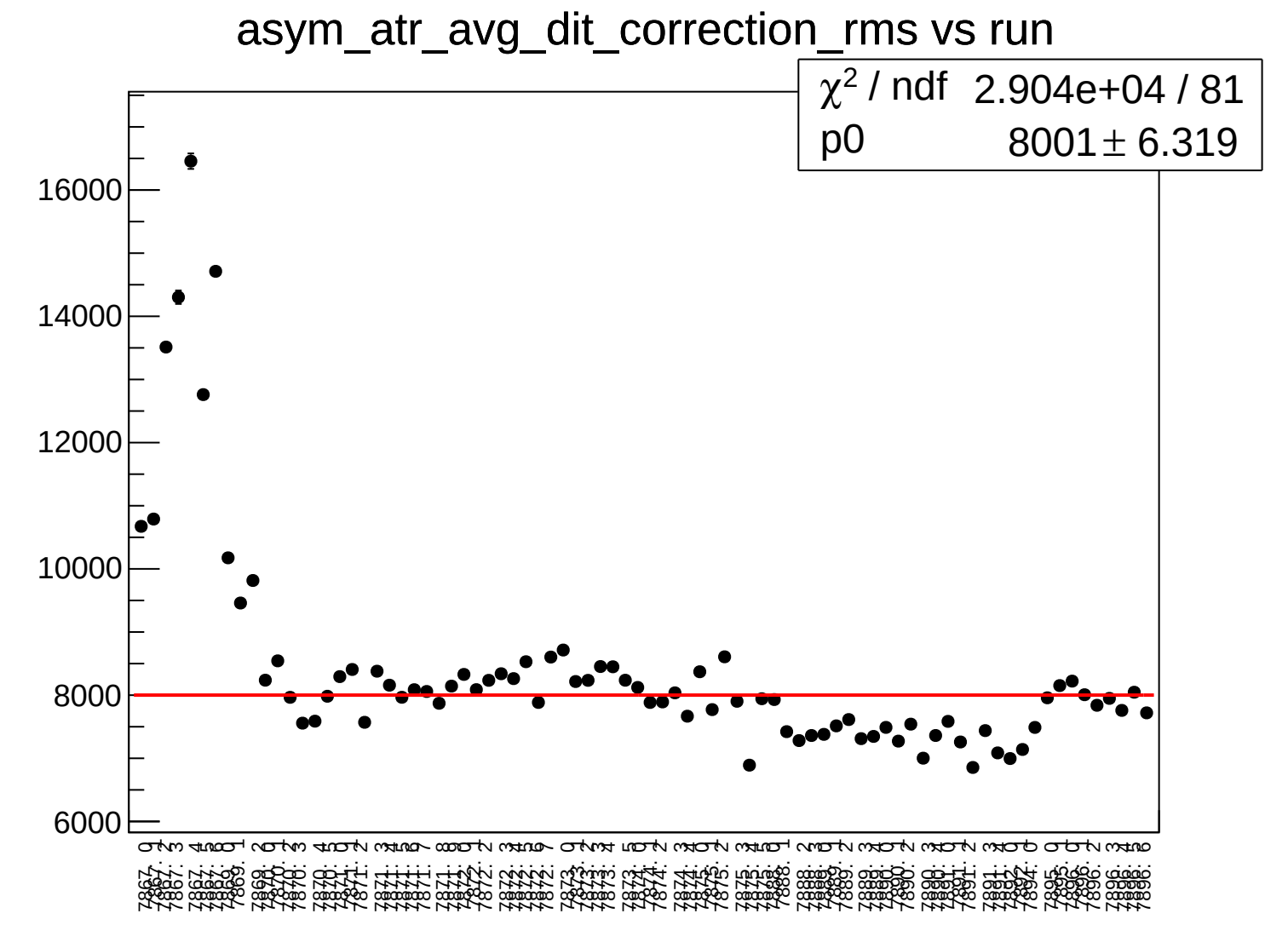

dit_asym_atr_avg_mean vs run
χ² / ndf 78.42 / 81
p0 −2800 ± 2283
pull
Entries 82
Mean 324.4
Std Dev 0

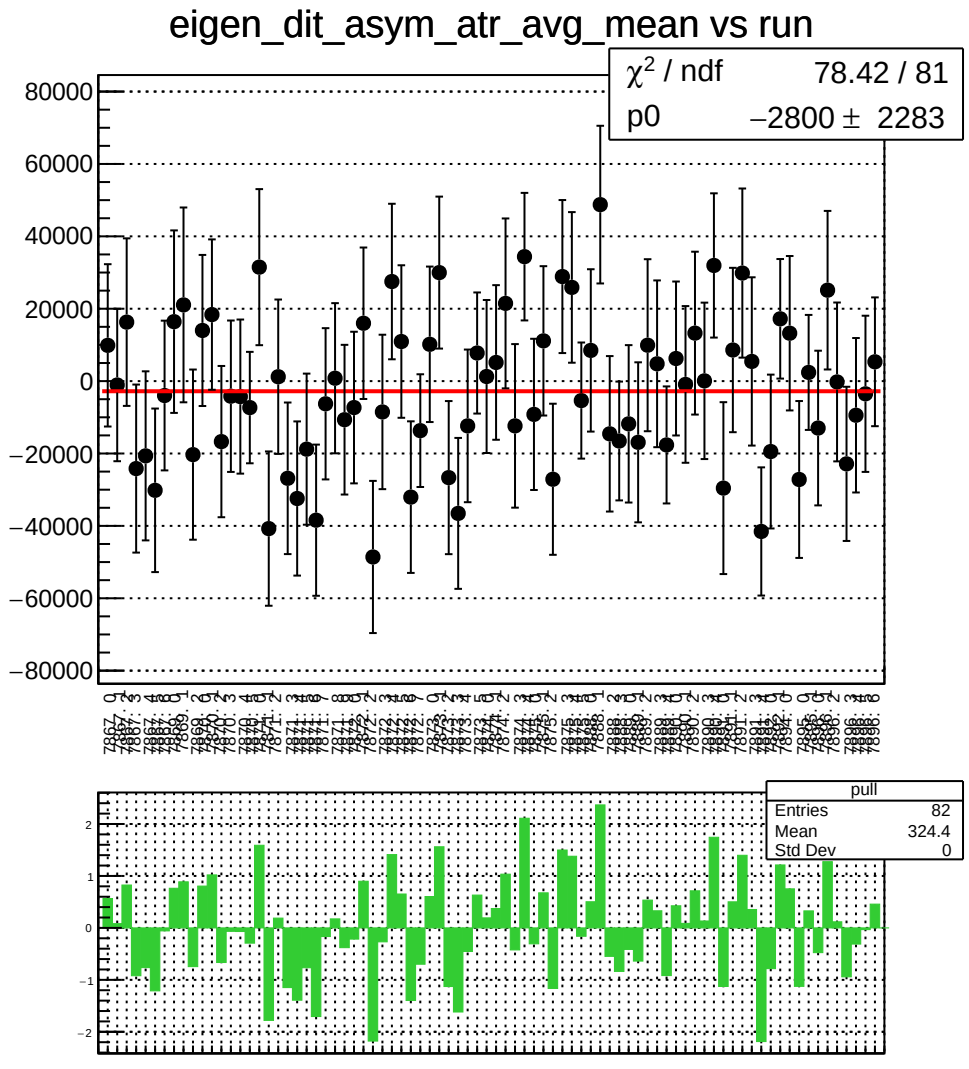

pull1D
Entries 82
Mean 0.008106
Std Dev 0.9779

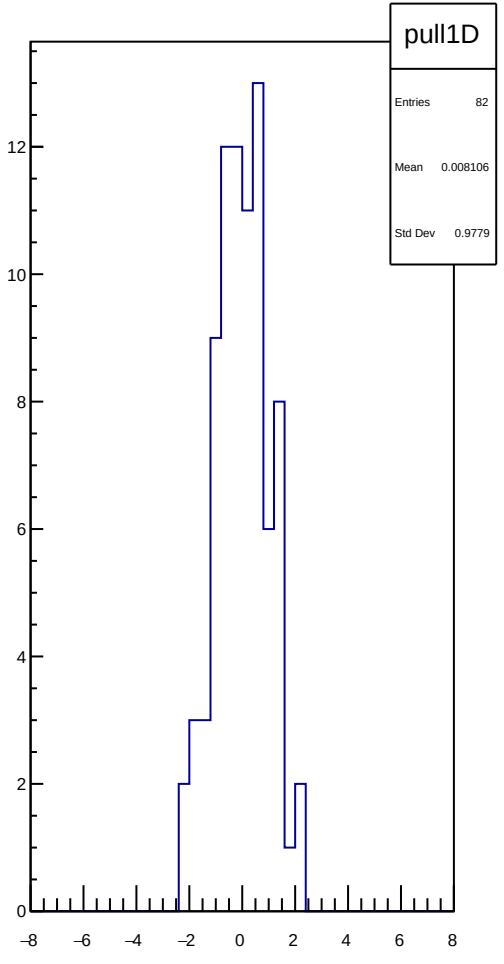

dit_asym_atr_avg_rms vs run
χ² / ndf 3915 / 81
p0 2060 ± 1.614
2600
2500
2400
2300
2200
2100
2000
1900

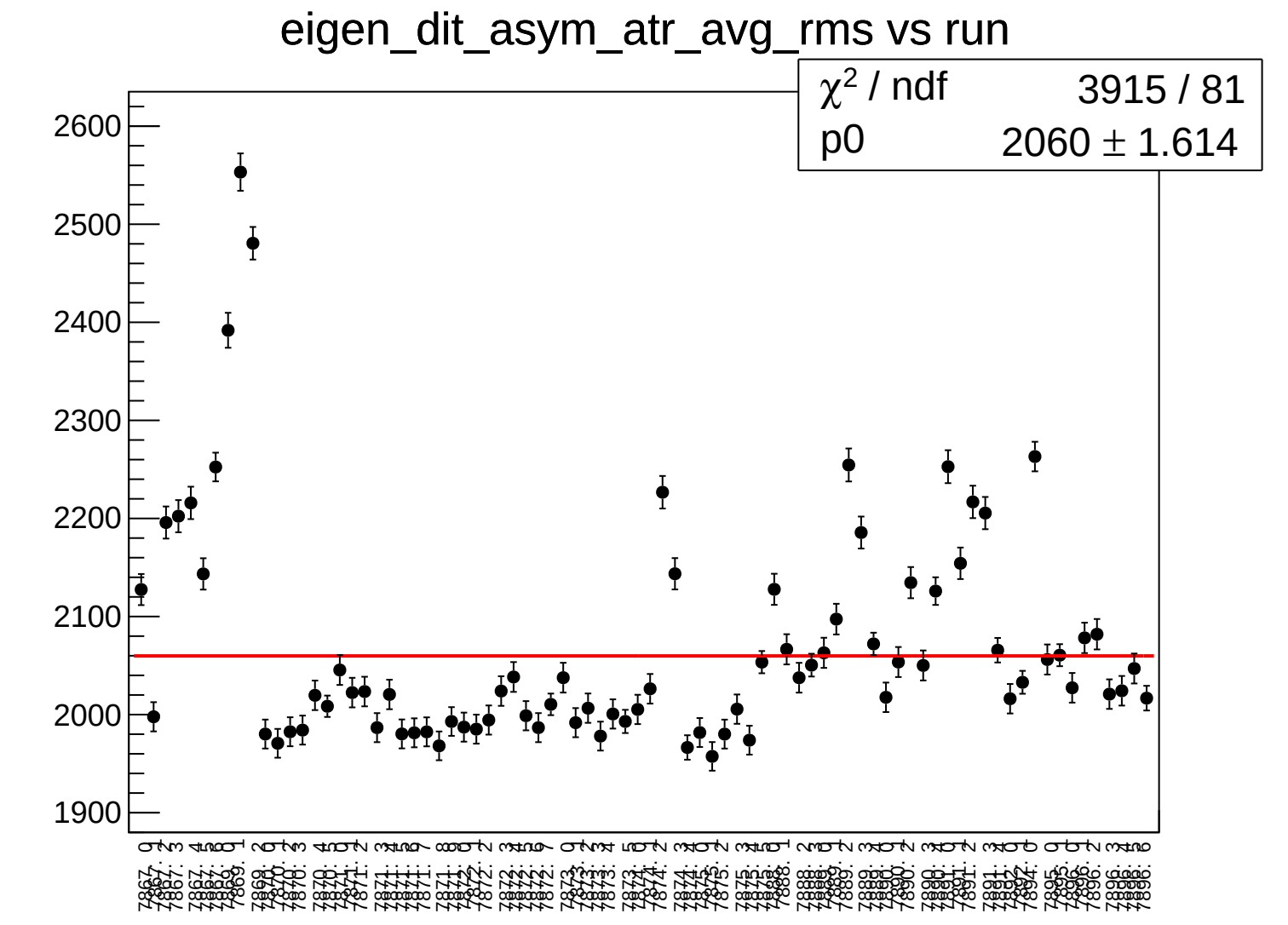

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.78 / 81
p0 4045 ± 8937
pull
Entries 82
Mean −107.6
Std Dev 0

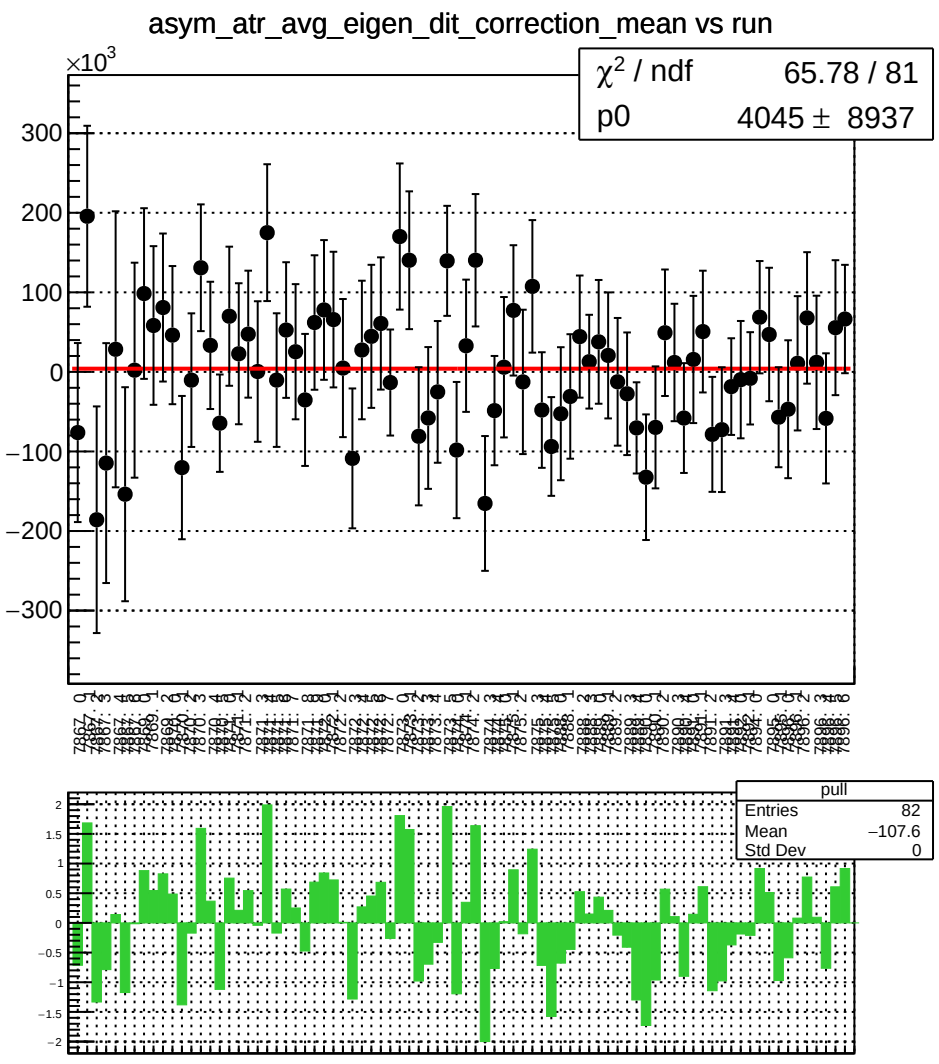

pull1D
Entries 82
Mean 0.01754
Std Dev 0.8955

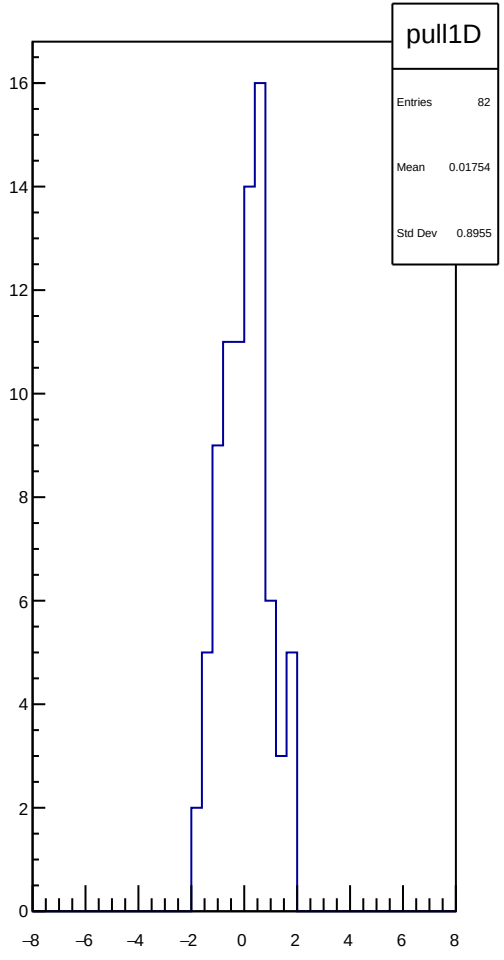

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2.904e+04 / 81
p0 8001 ± 6.319
16000
14000
12000
10000
8000
6000

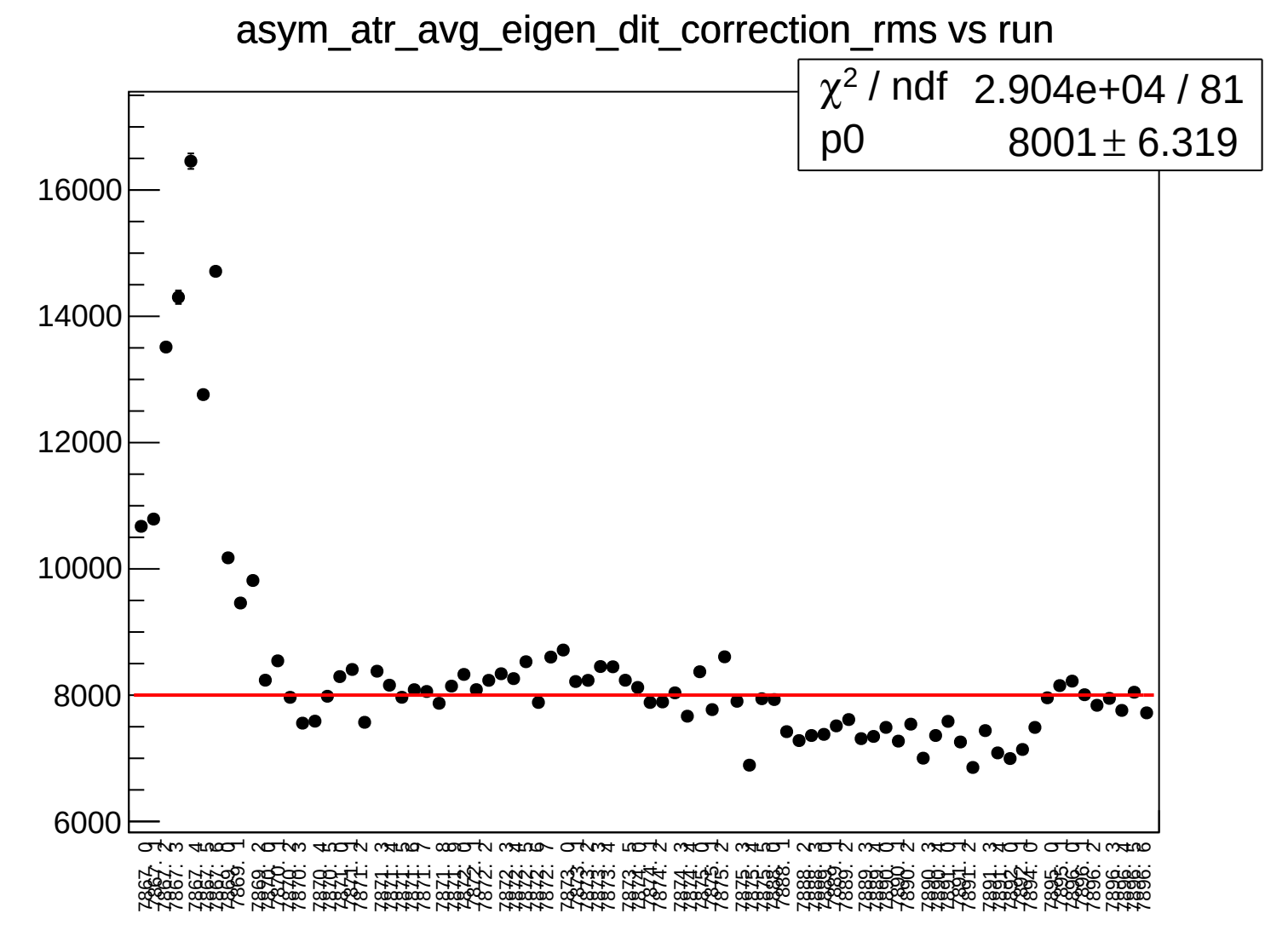

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 78.42 / 81
p0 −2800 ± 2283
pull
Entries 82
Mean 324.4
Std Dev 0

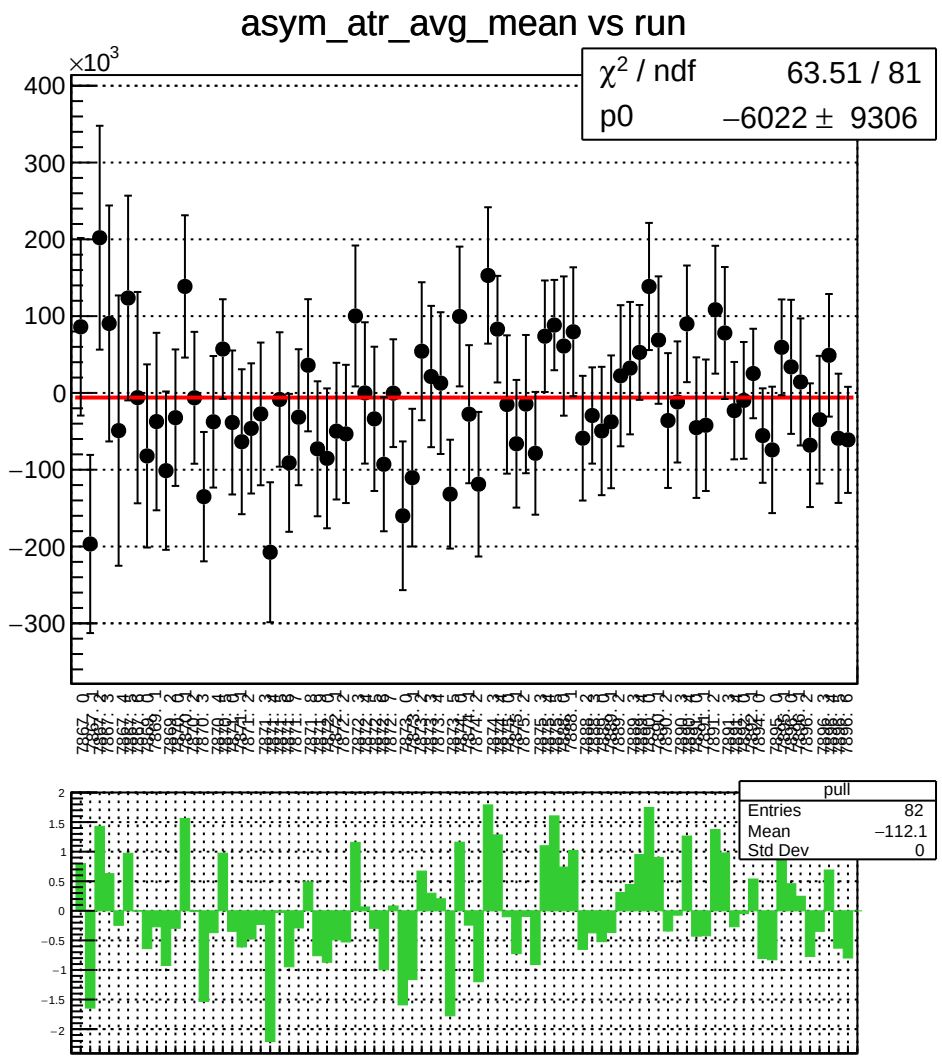

pull1D
Entries 82
Mean 0.008106
Std Dev 0.9779

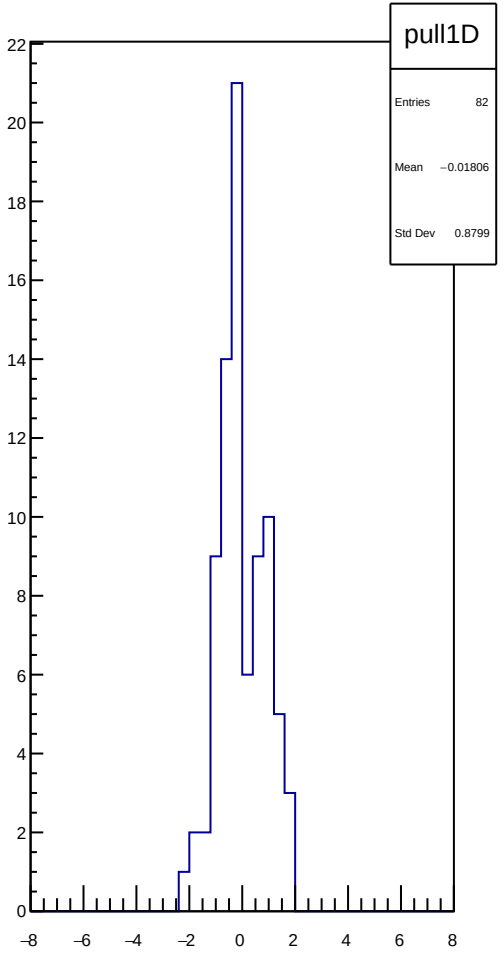

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 3915 / 81
p0 2060 ± 1.614
2600
2500
2400
2300
2200
2100
2000
1900

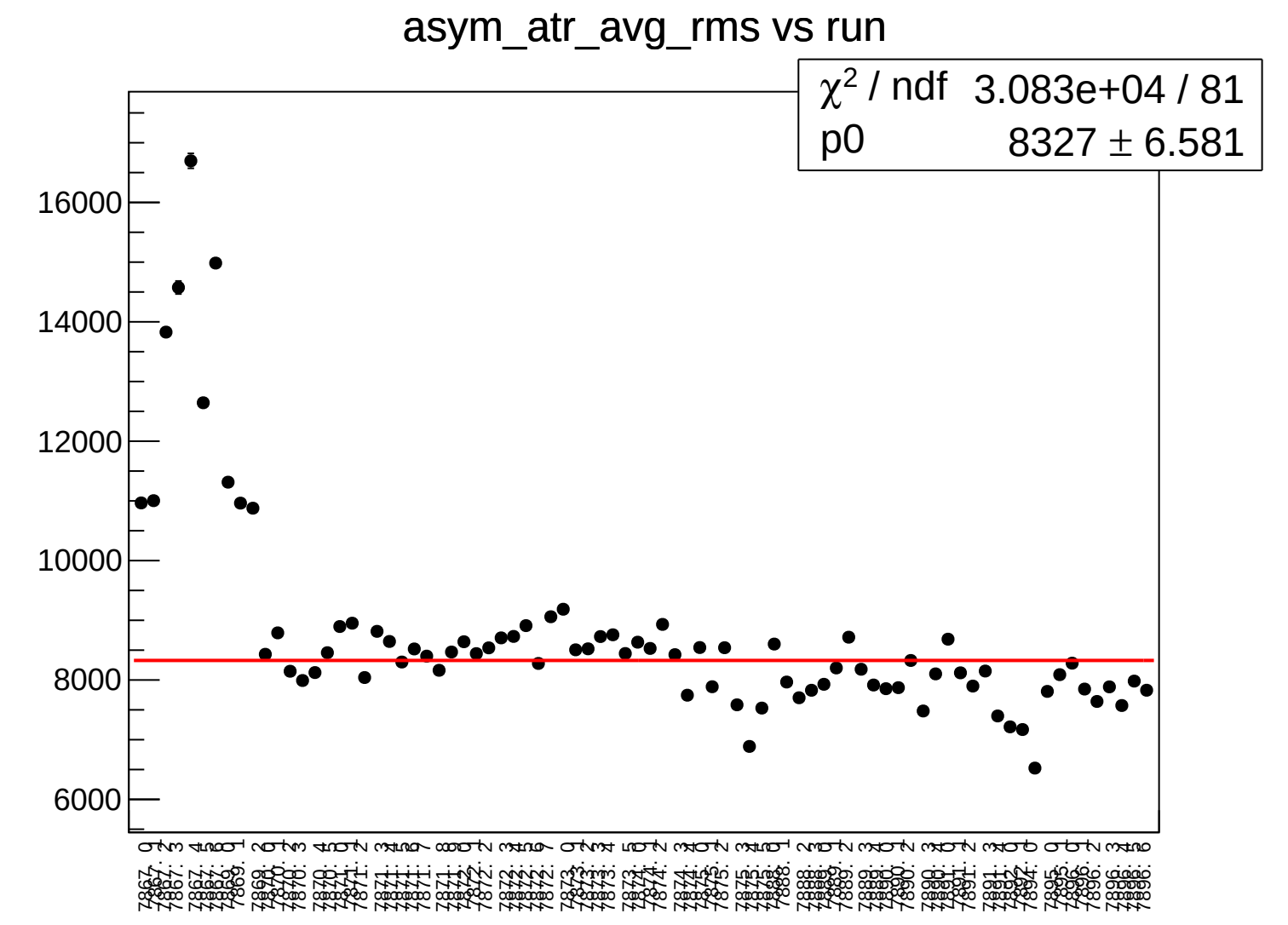

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.78 / 81
p0 4045 ± 8937
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −107.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

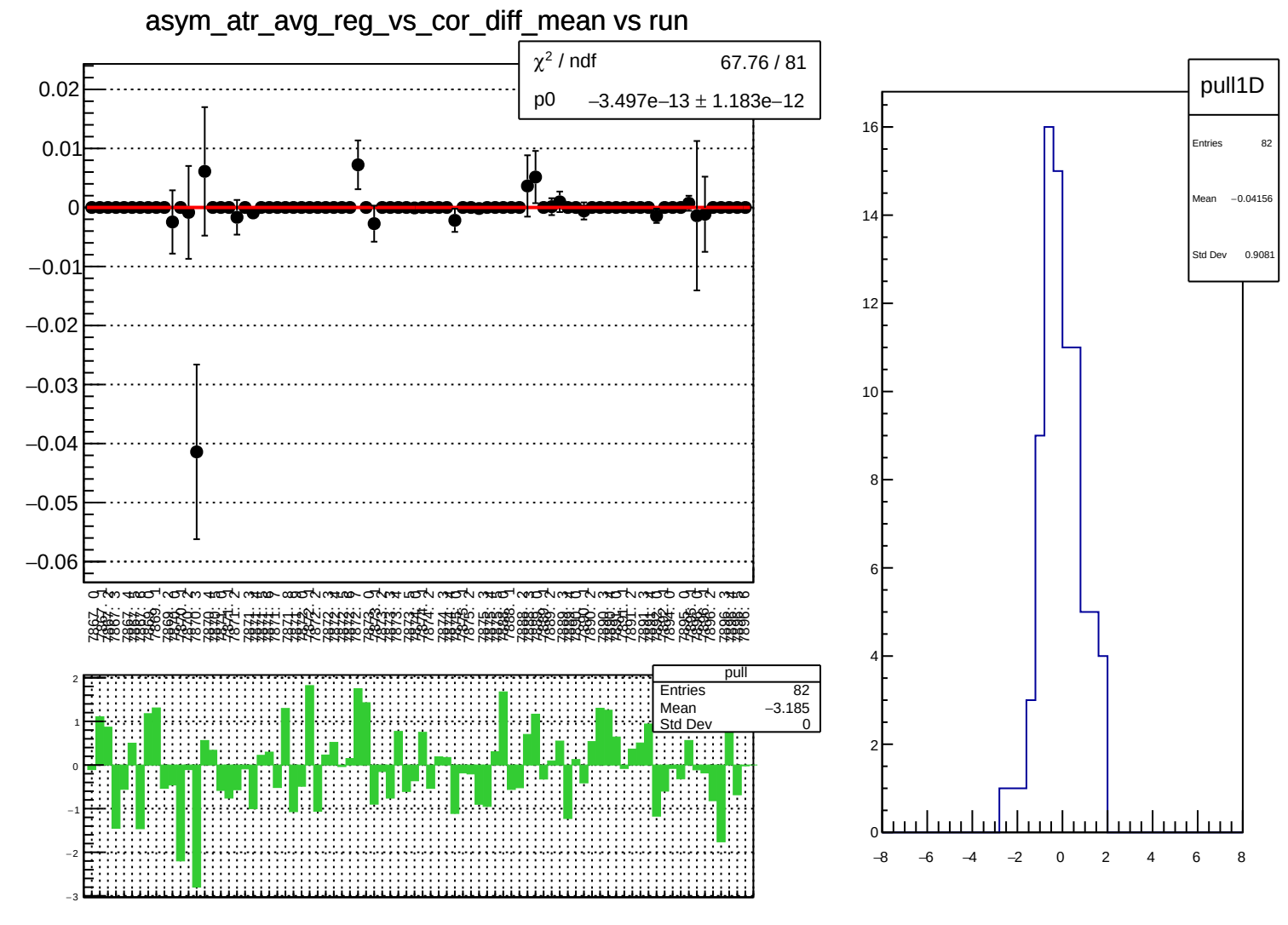

pull1D
Entries 82
Mean 0.01754
Std Dev 0.8955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

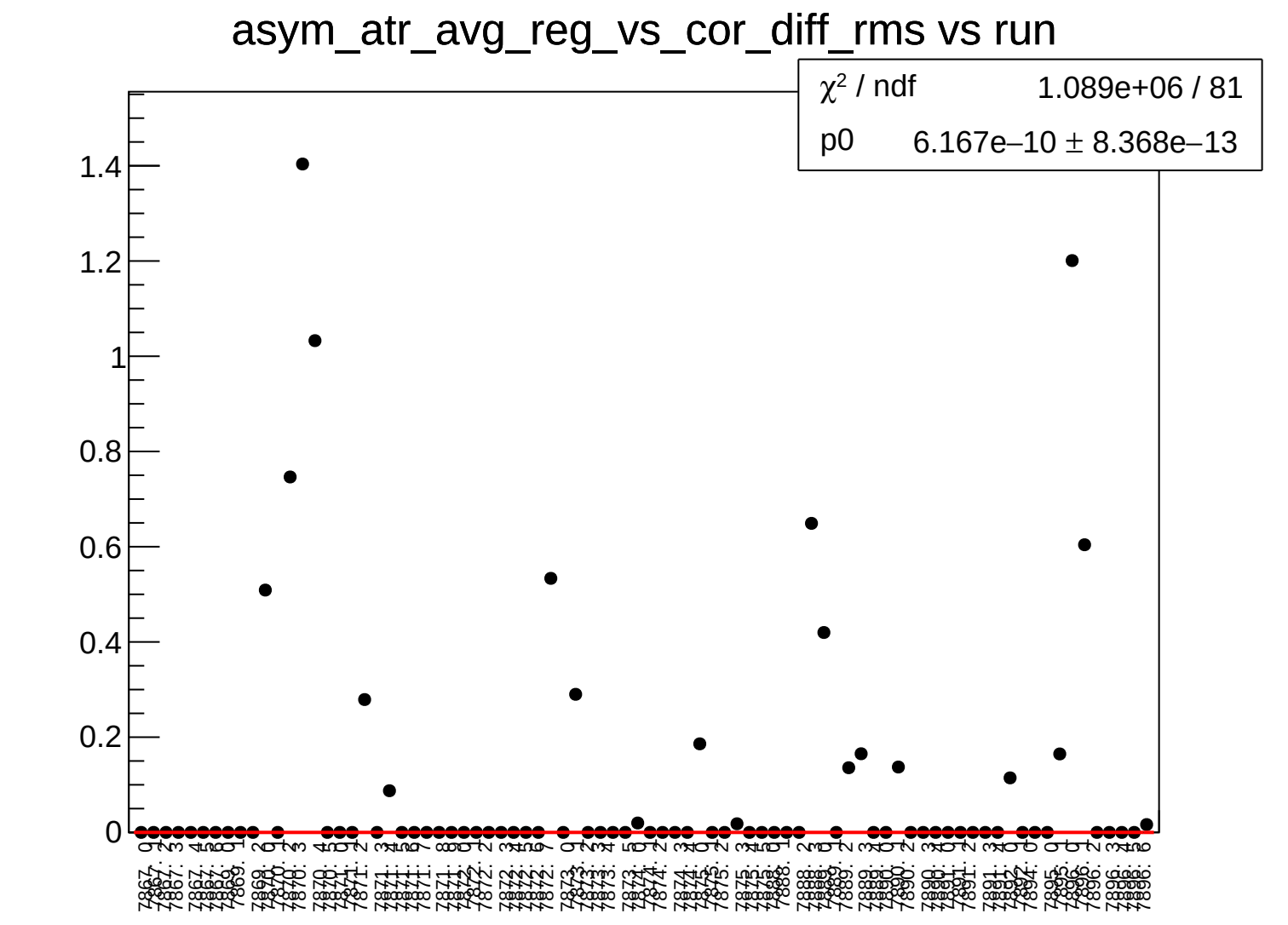

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.904e+04 / 81
p0 8001 ± 6.319
16000
14000
12000
10000
8000
6000

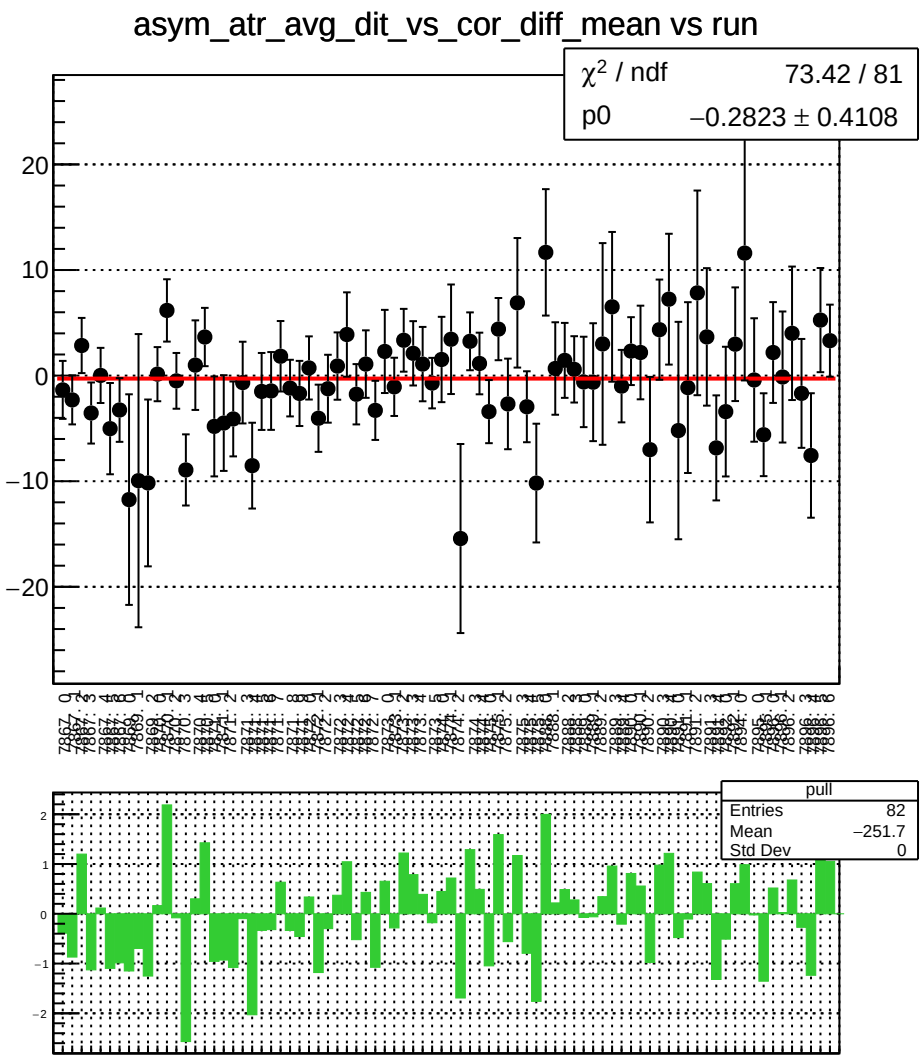

asym_atr_avg_mean vs run
×10^3
χ² / ndf 63.51 / 81
p0 −6022 ± 9306
pull
Entries 82
Mean −112.1
Std Dev 0

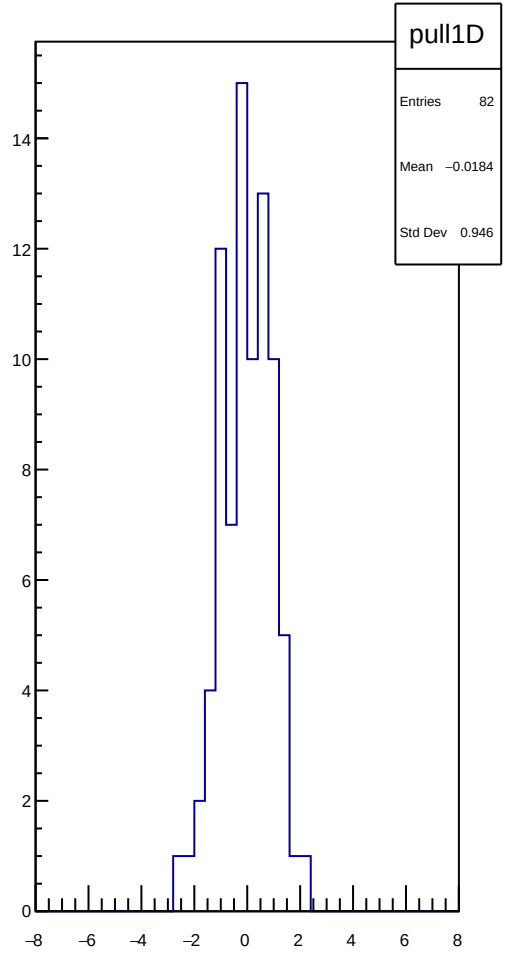

pull1D
Entries 82
Mean −0.01806
Std Dev 0.8799

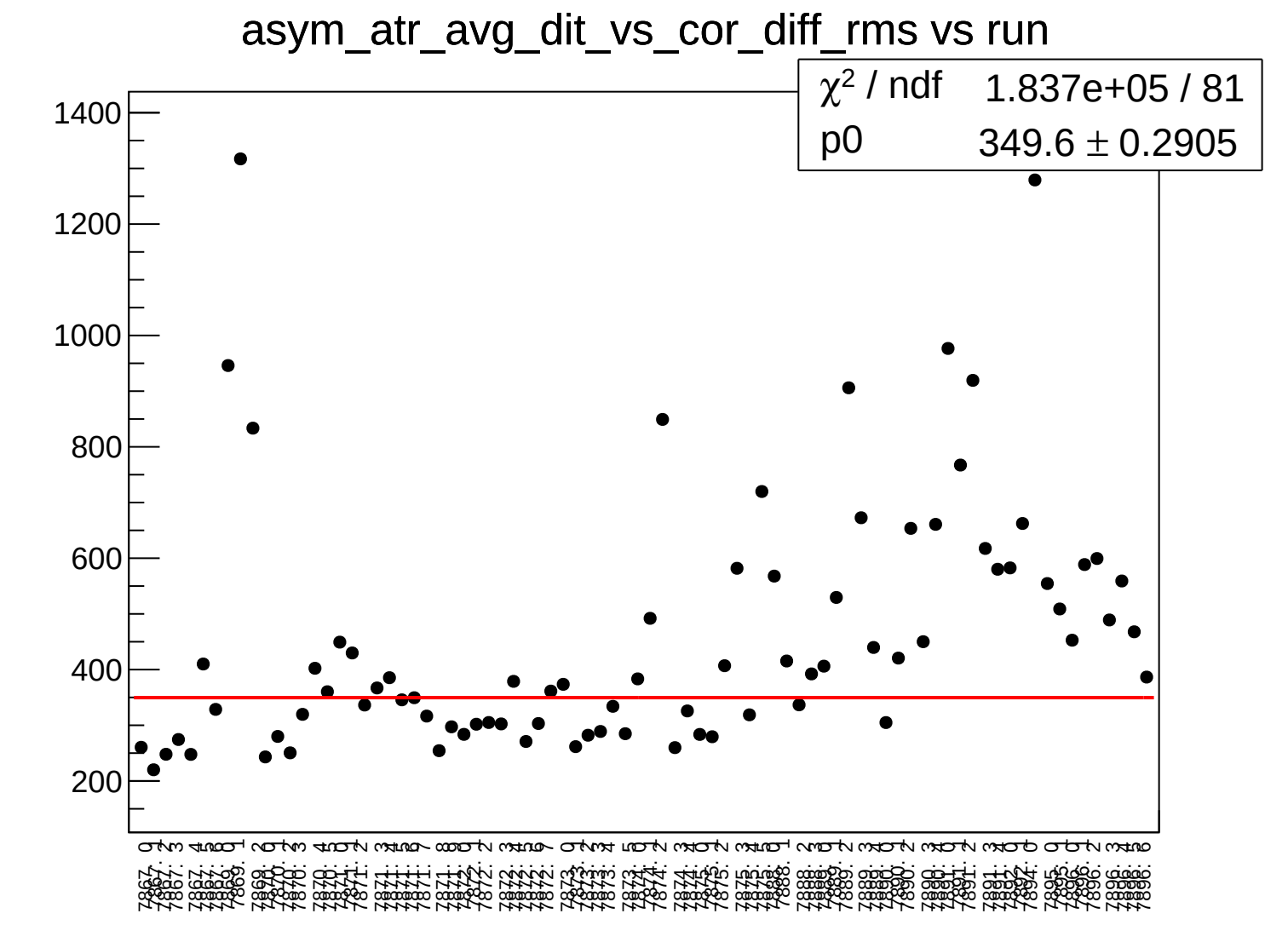

asym_atr_avg_rms vs run
χ^2 / ndf 3.083e+04 / 81
p0 8327 ± 6.581
16000
14000
12000
10000
8000
6000

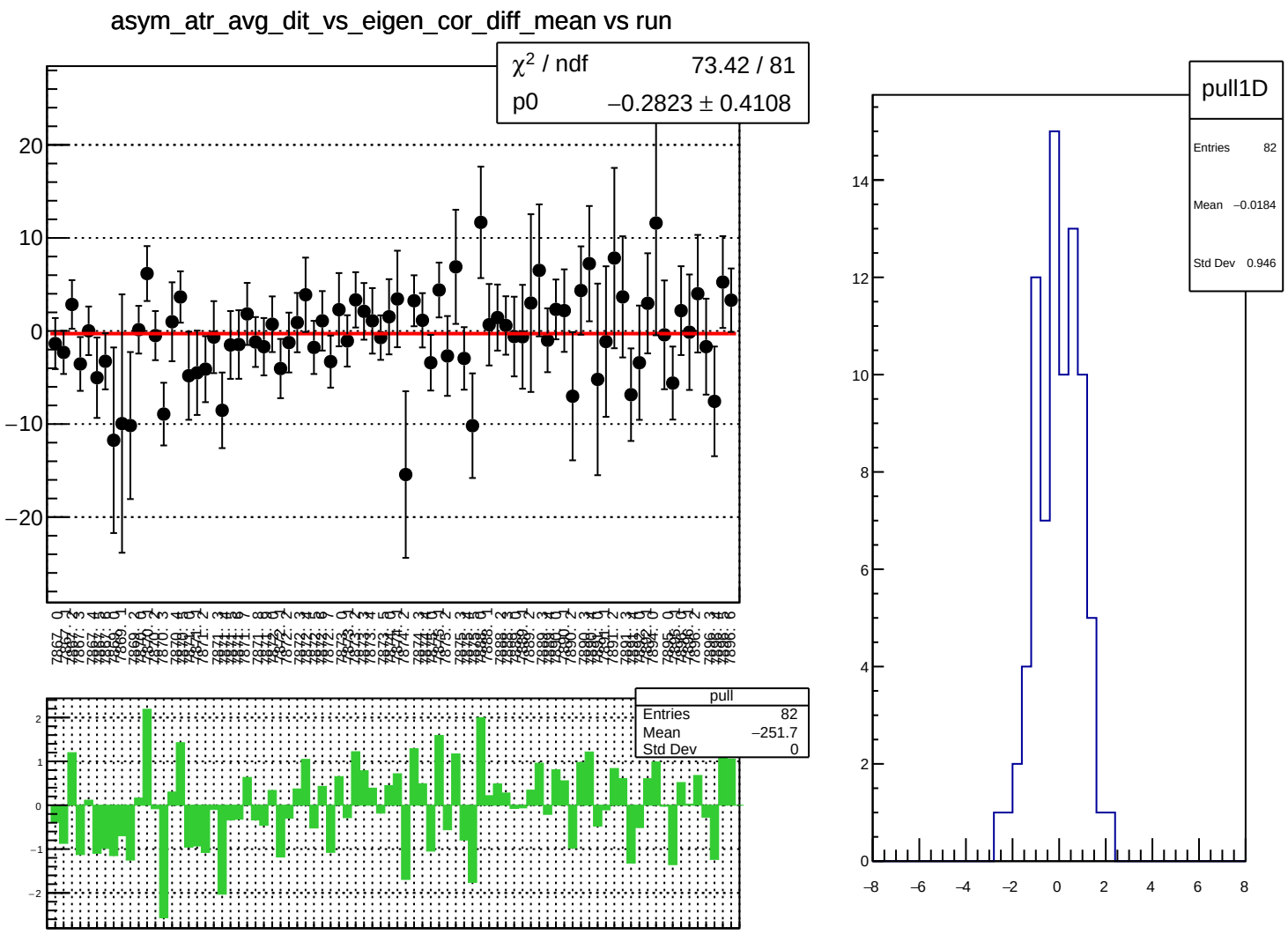

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.76 / 81
p0 −3.497e−13 ± 1.183e−12
pull
Entries 82
Mean −3.185
Std Dev 0
pull1D
Entries 82
Mean −0.04156
Std Dev 0.9081

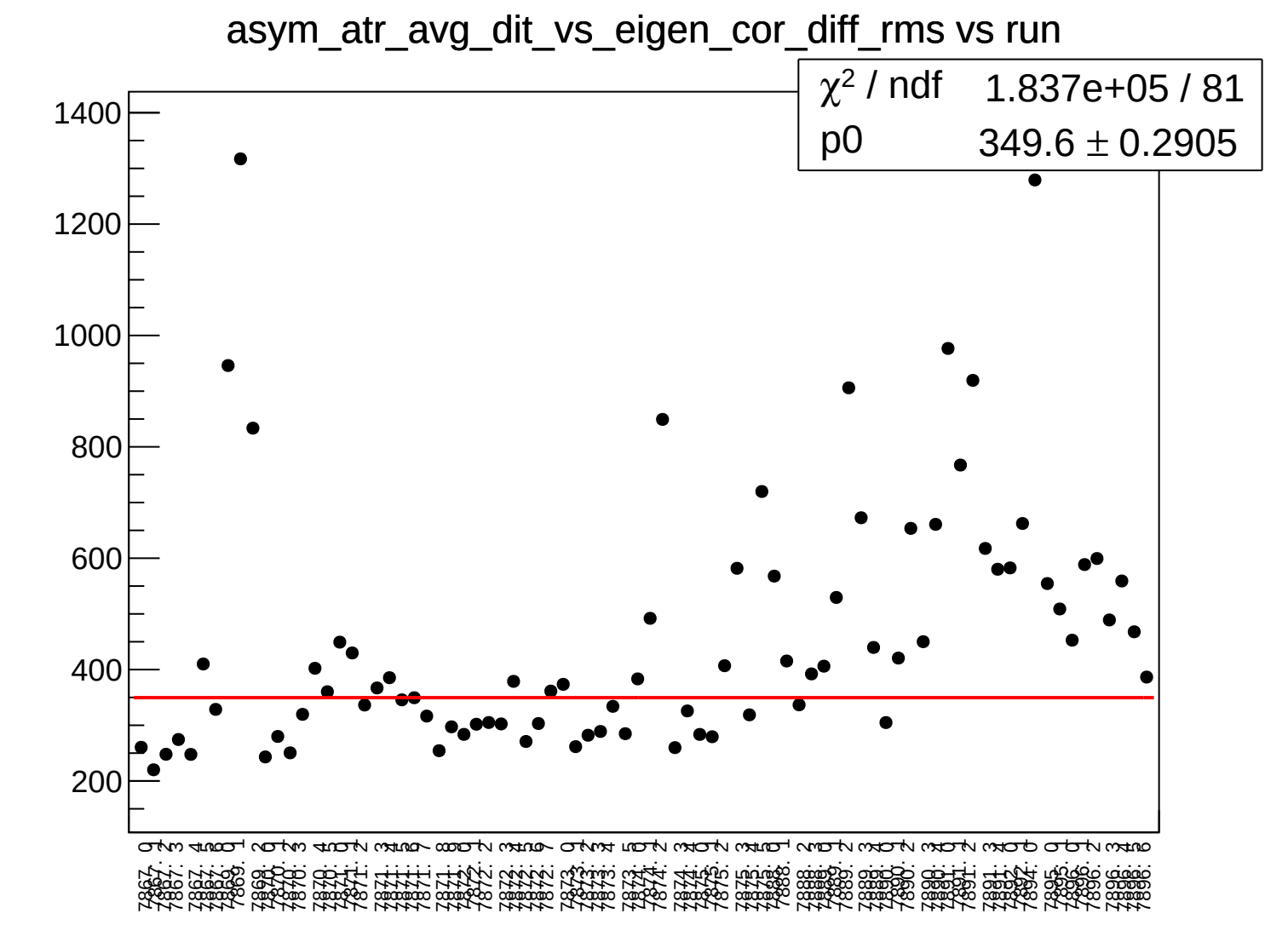

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 81
p0 6.167e−10 ± 8.368e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

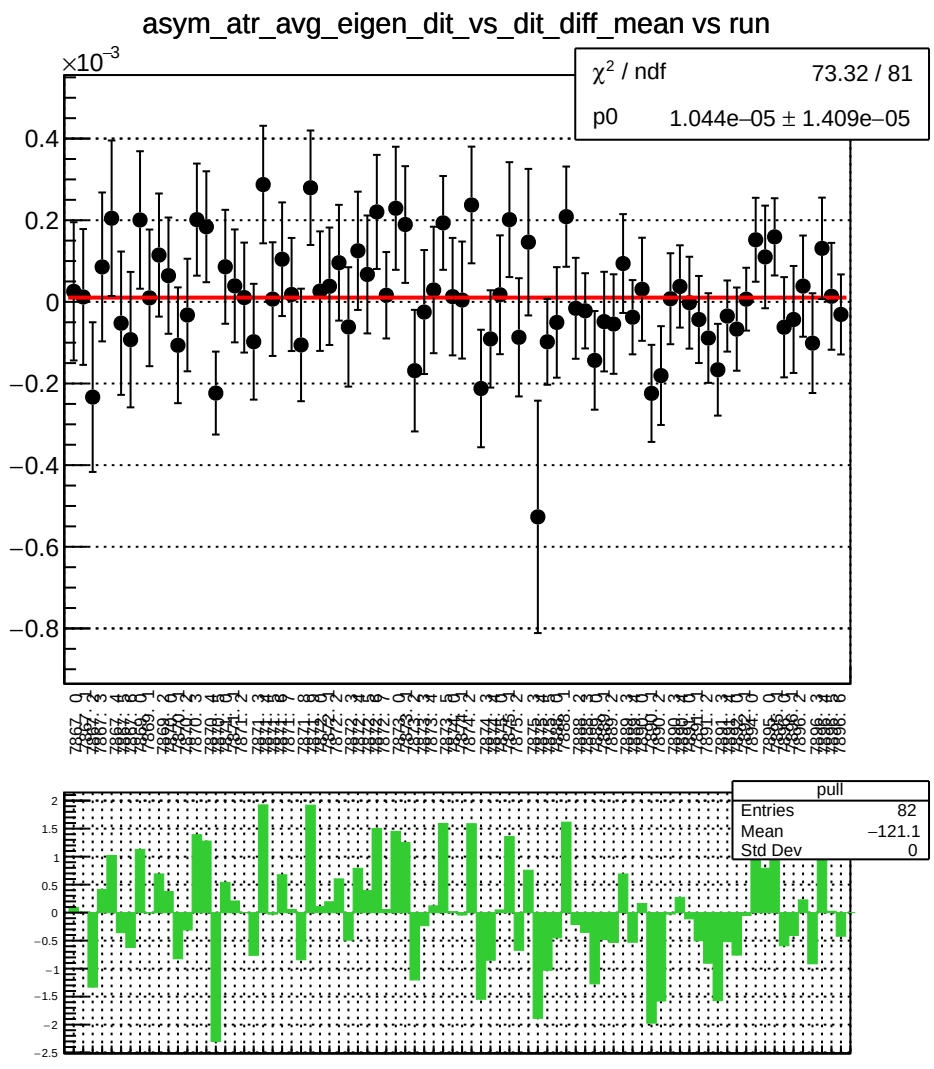

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.42 / 81
p0 −0.2823 ± 0.4108
pull
Entries 82
Mean −251.7
Std Dev 0

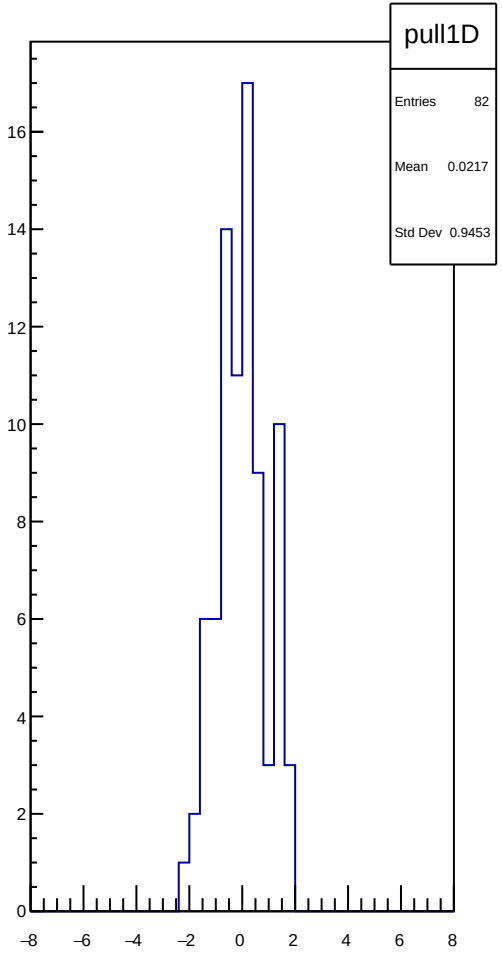

pull1D
Entries 82
Mean −0.0184
Std Dev 0.946

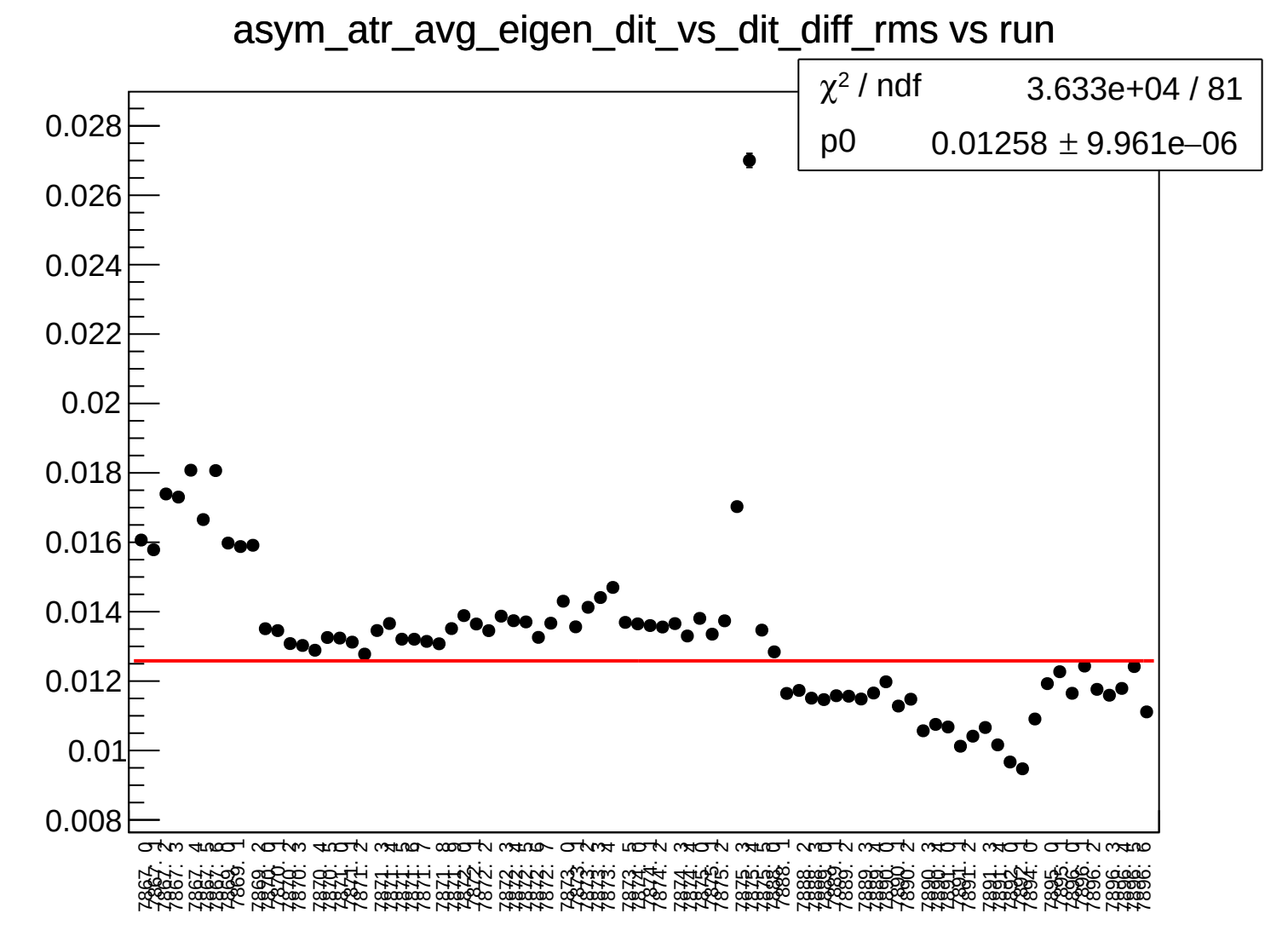

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.837e+05 / 81
p0 349.6 ± 0.2905
1400
1200
1000
800
600
400
200

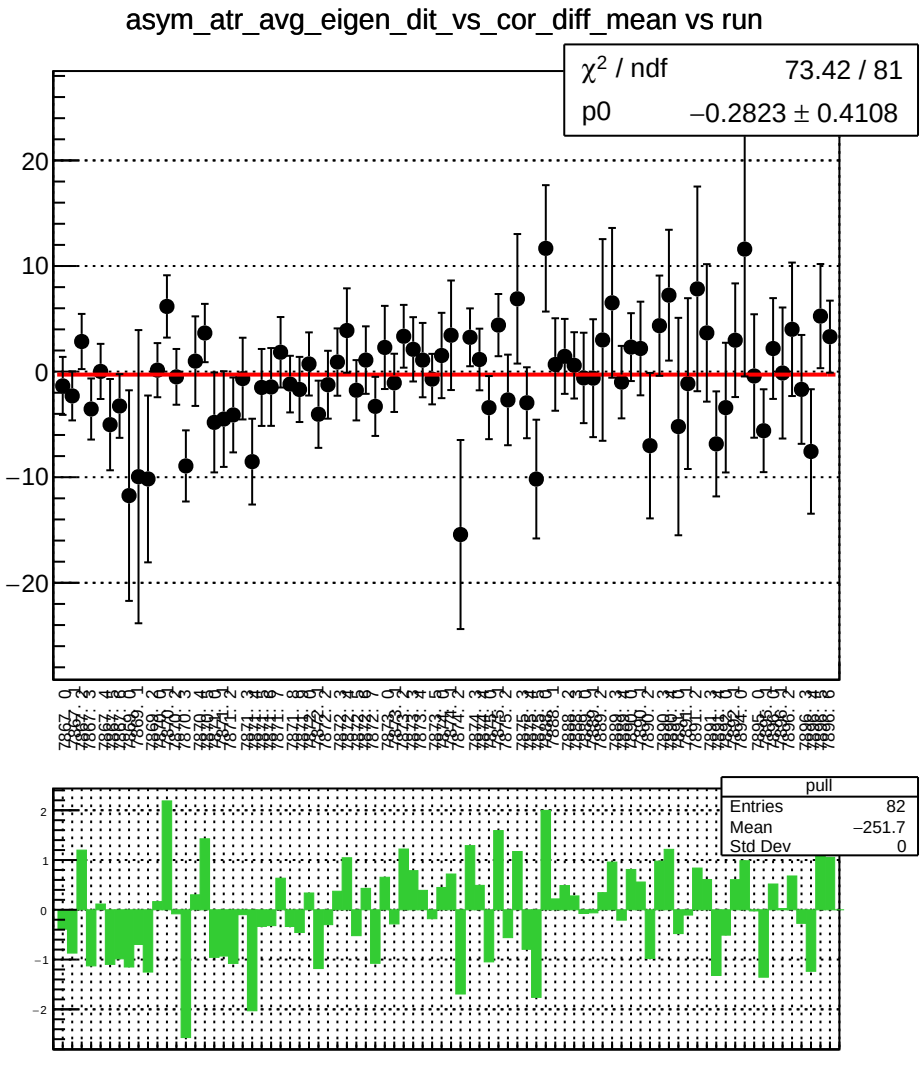

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.42 / 81
p0 −0.2823 ± 0.4108
pull
Entries 82
Mean −251.7
Std Dev 0
pull1D
Entries 82
Mean −0.0184
Std Dev 0.946

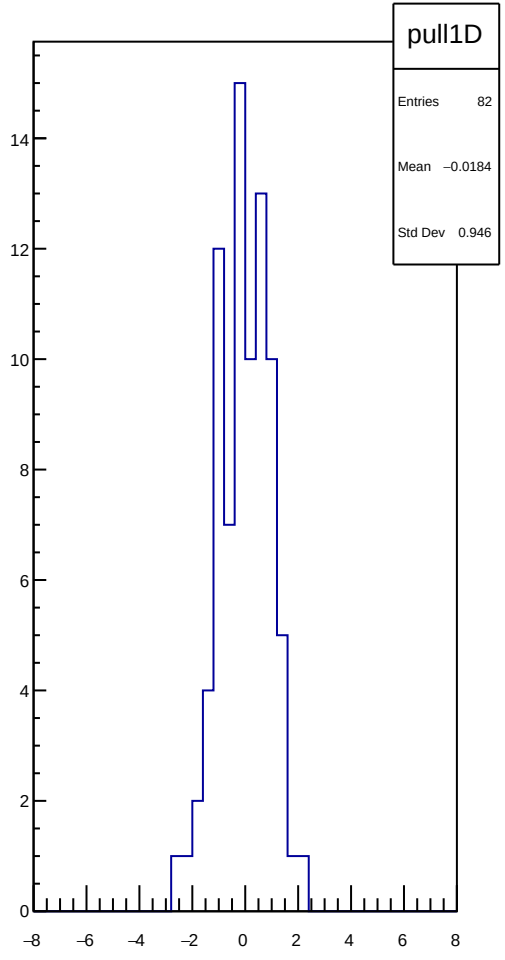

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.837e+05 / 81
p0 349.6 ± 0.2905
1400
1200
1000
800
600
400
200

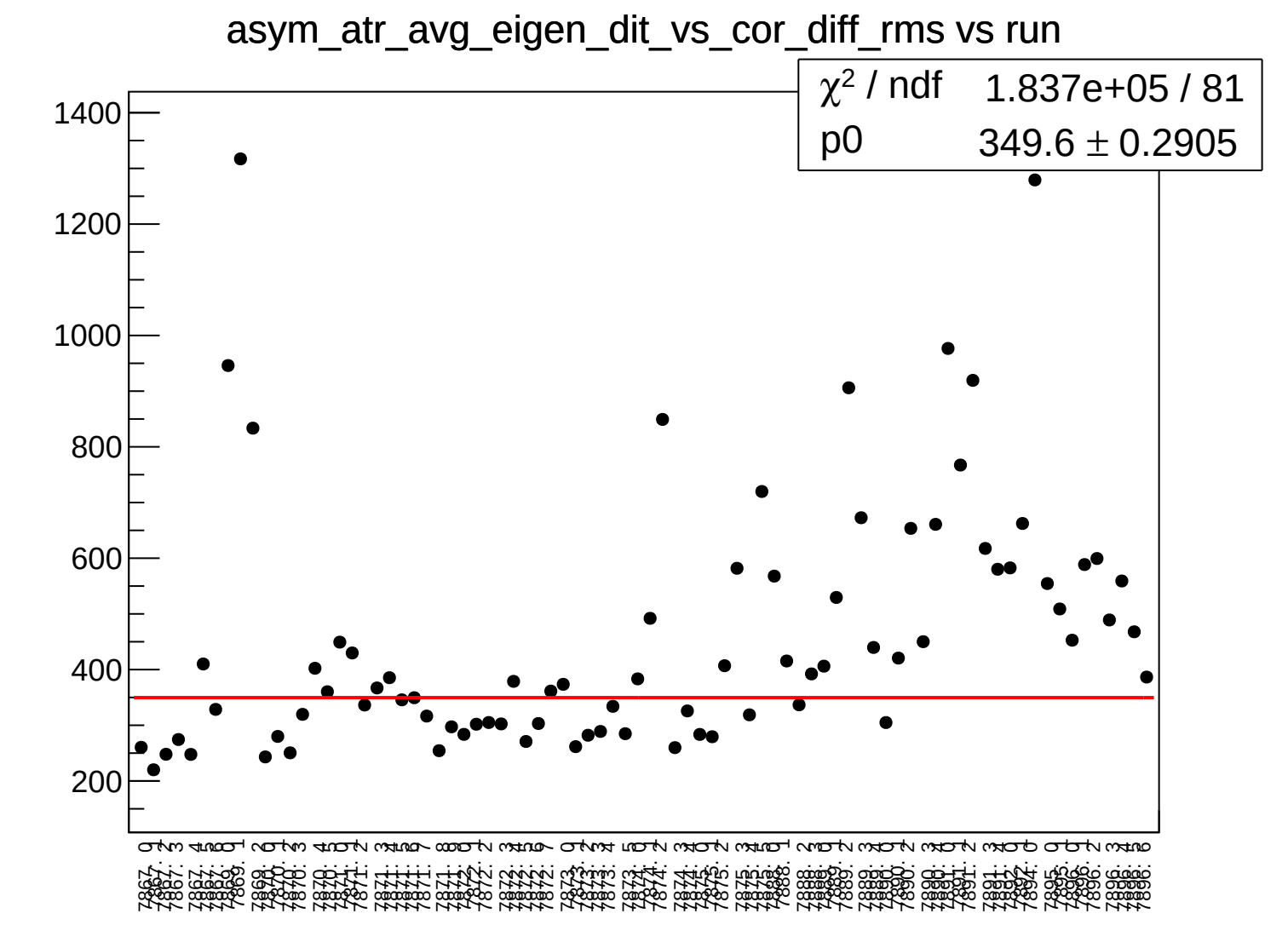

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.32 / 81
p0 1.044e−05 ± 1.409e−05
pull
Entries 82
Mean −121.1
Std Dev 0

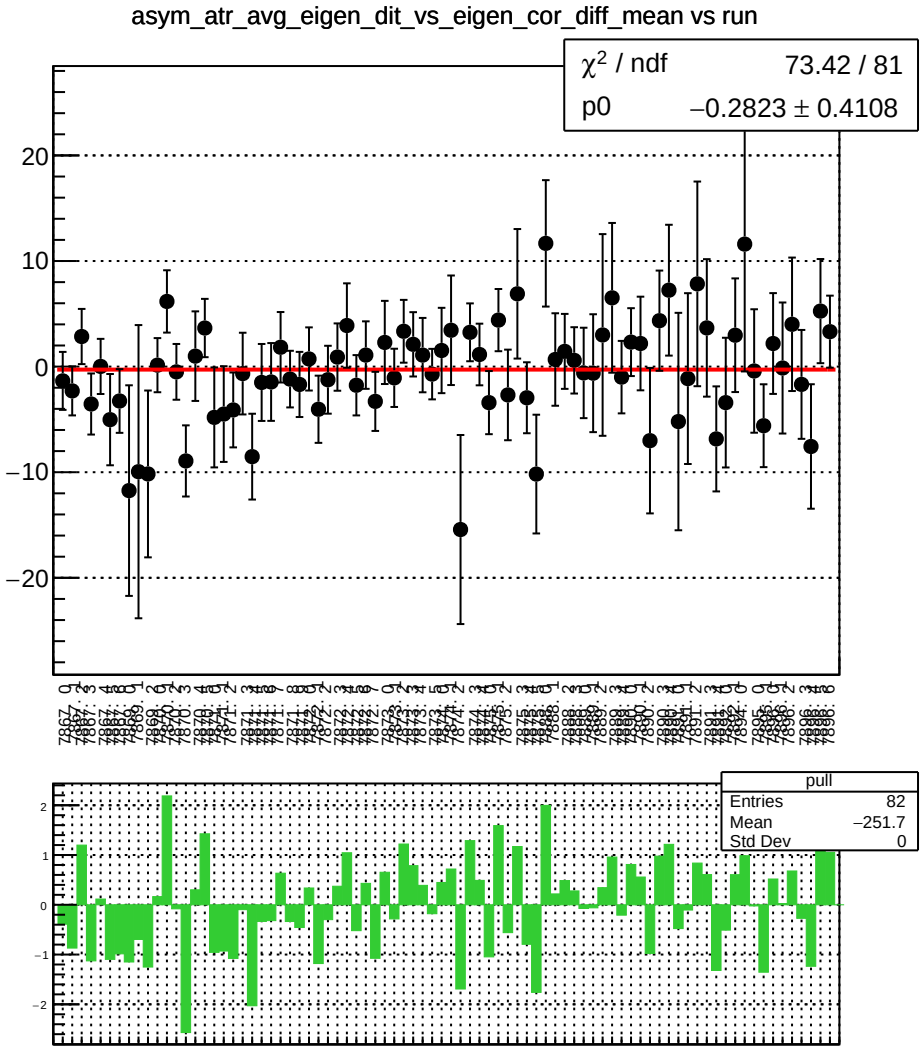

pull1D
Entries 82
Mean 0.0217
Std Dev 0.9453

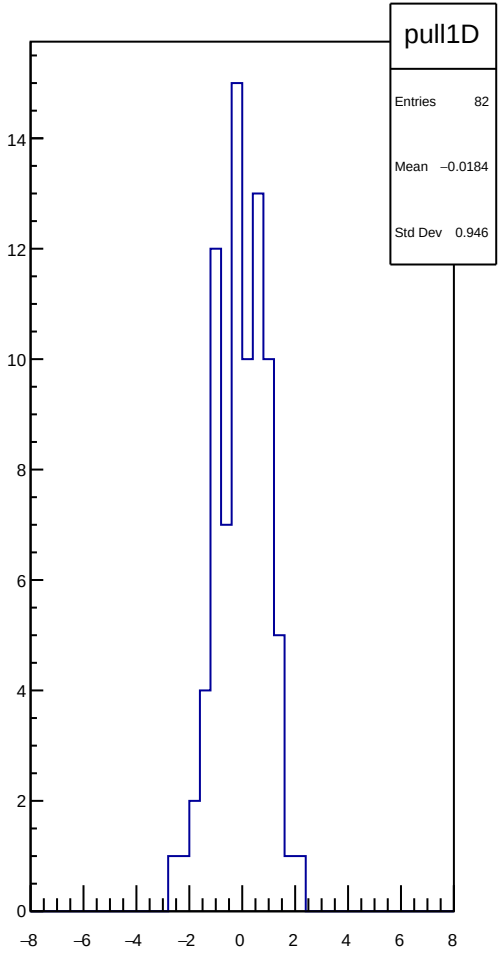

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.633e+04 / 81
p0 0.01258 ± 9.961e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

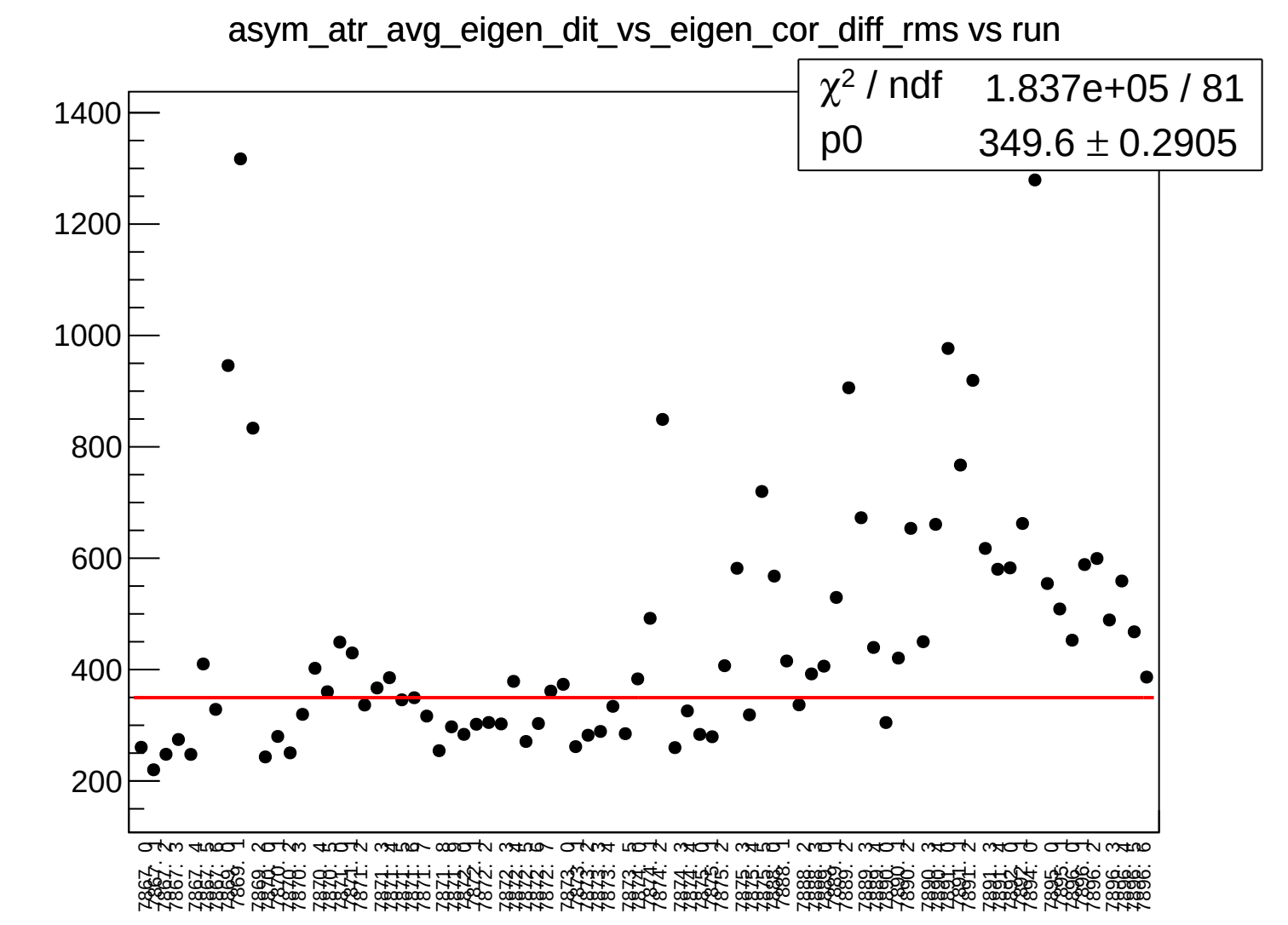

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.42 / 81
p0 −0.2823 ± 0.4108
pull
Entries 82
Mean −251.7
Std Dev 0

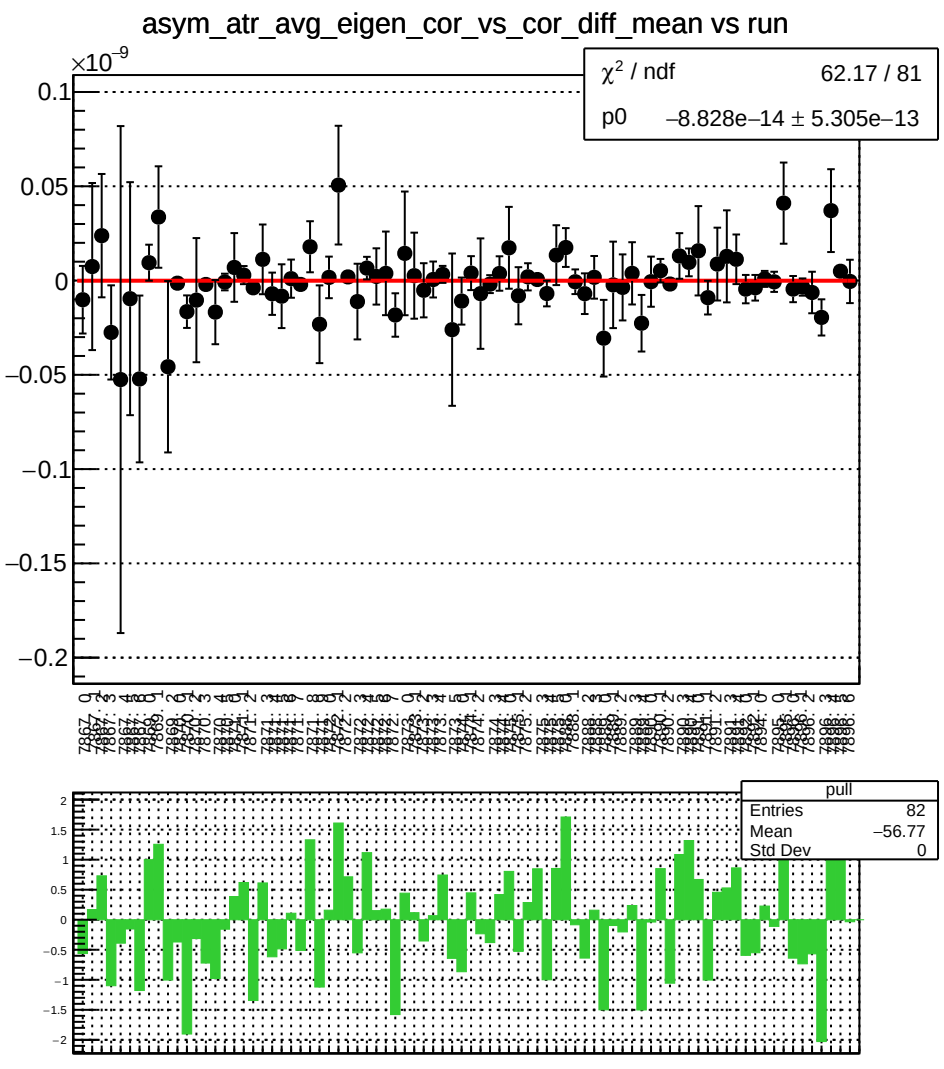

pull1D
Entries 82
Mean −0.0184
Std Dev 0.946

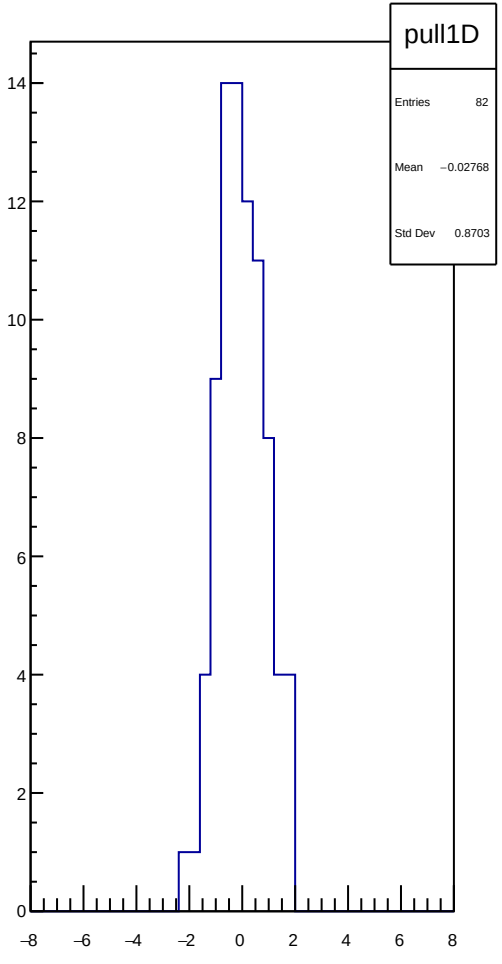

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.837e+05 / 81
p0 349.6 ± 0.2905
1400
1200
1000
800
600
400
200

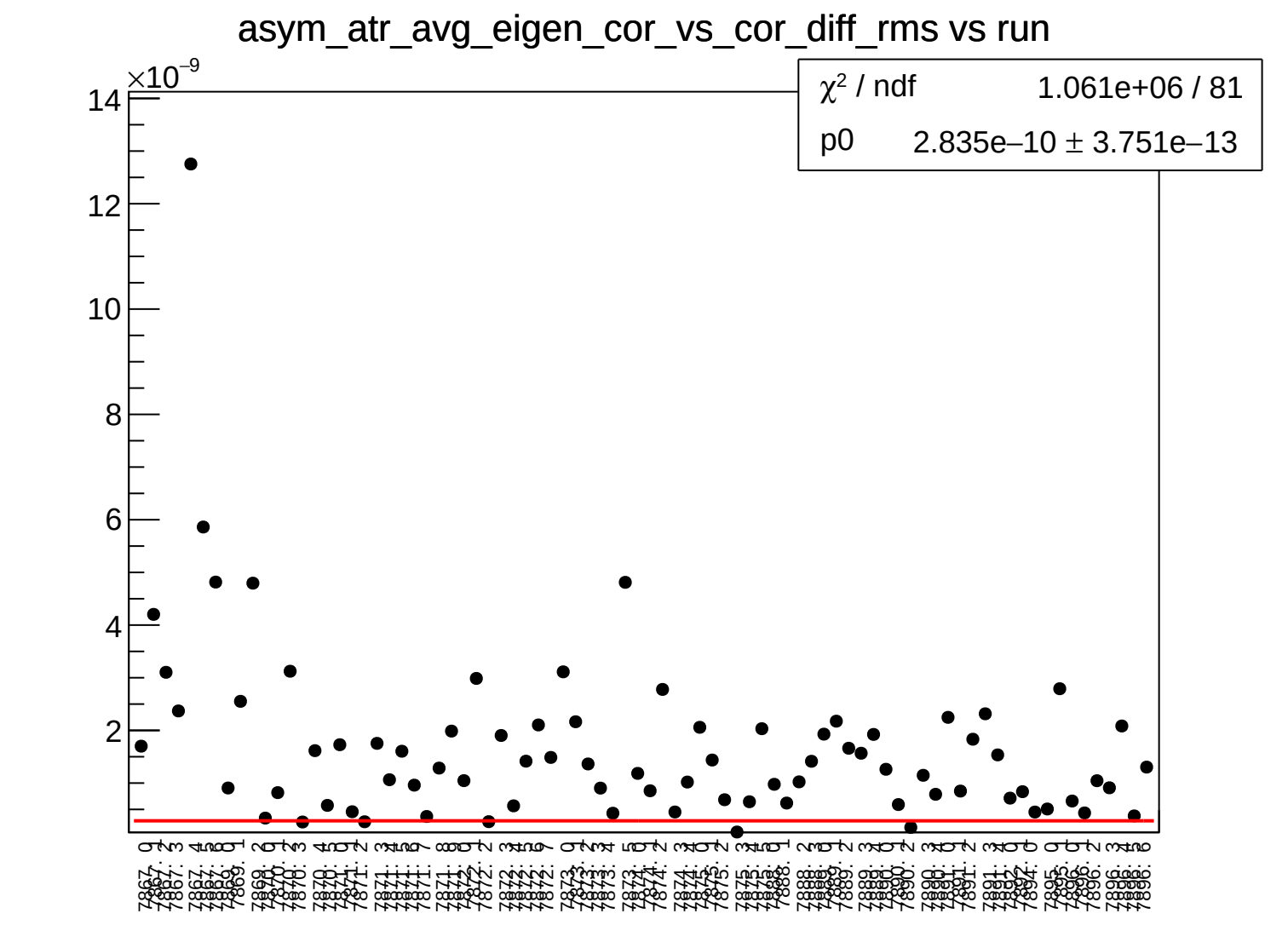

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.42 / 81
p0 −0.2823 ± 0.4108
pull
Entries 82
Mean −251.7
Std Dev 0

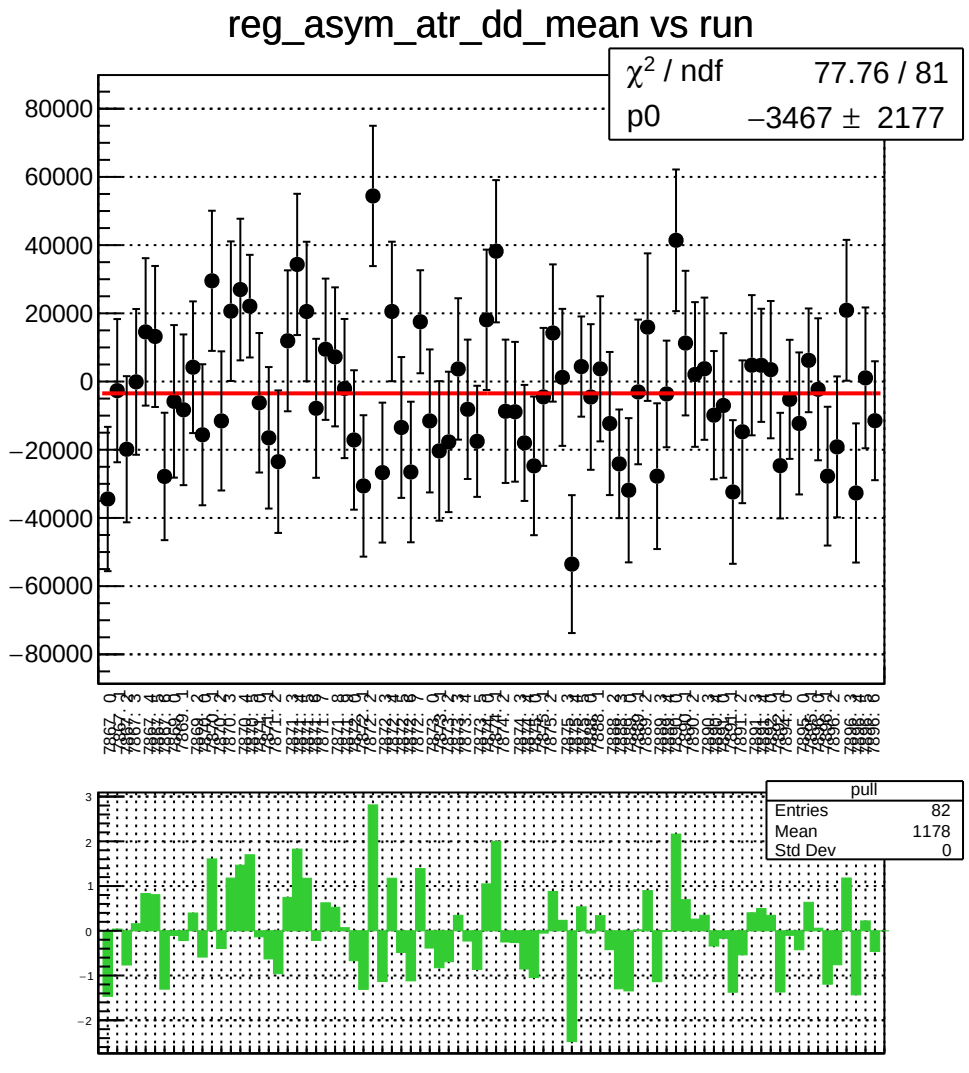

pull1D
Entries 82
Mean −0.0184
Std Dev 0.946

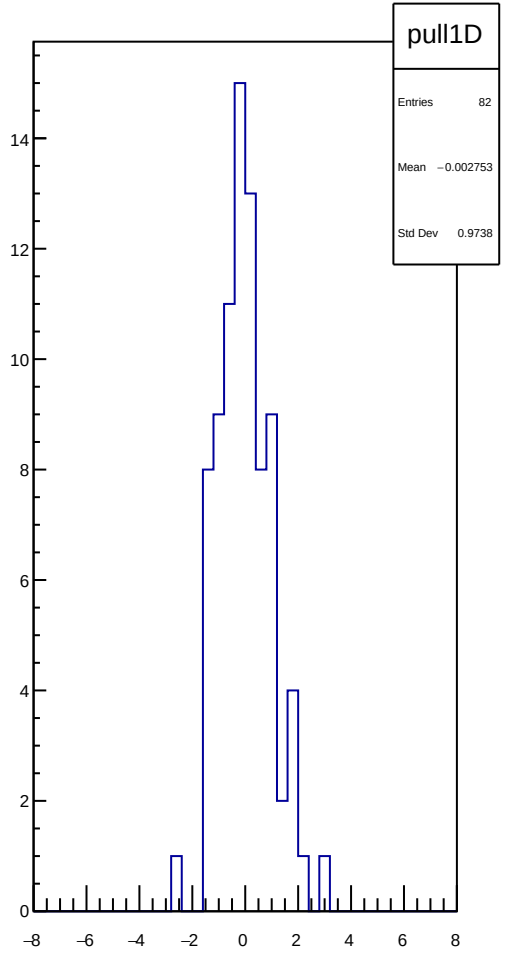

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.837e+05 / 81
p0 349.6 ± 0.2905
1400
1200
1000
800
600
400
200

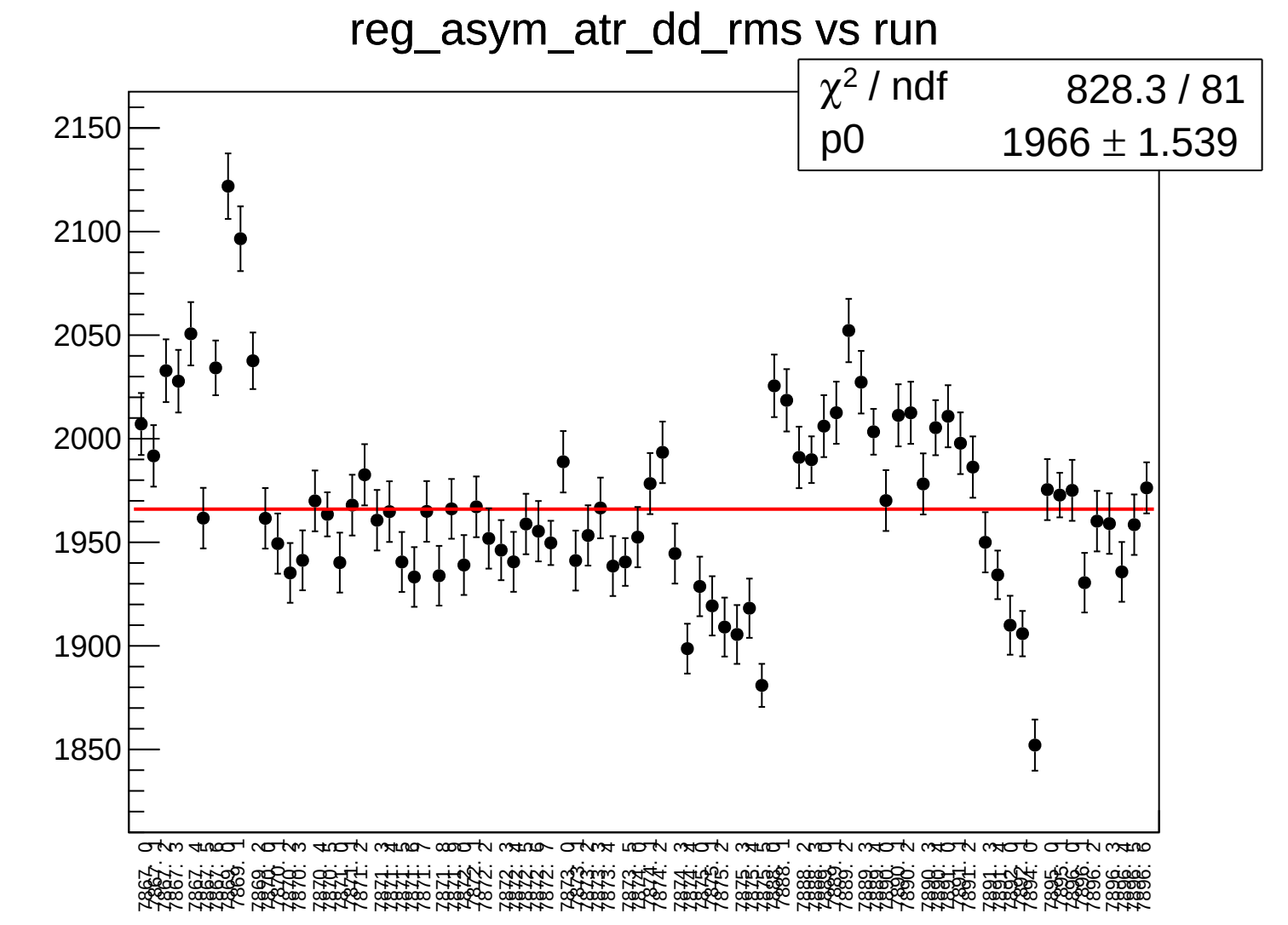

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 62.17 / 81
p0 −8.828e−14 ± 5.305e−13
pull
Entries 82
Mean −56.77
Std Dev 0

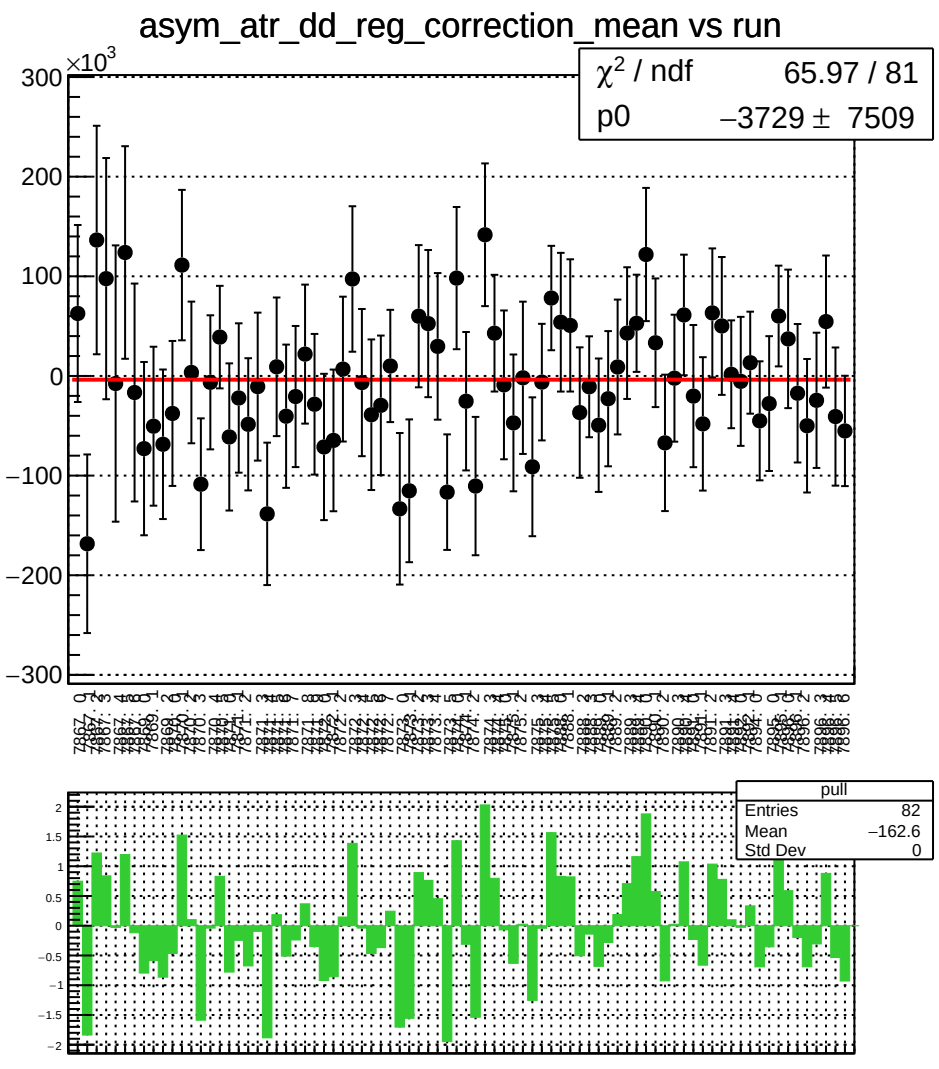

pull1D
Entries 82
Mean −0.02768
Std Dev 0.8703

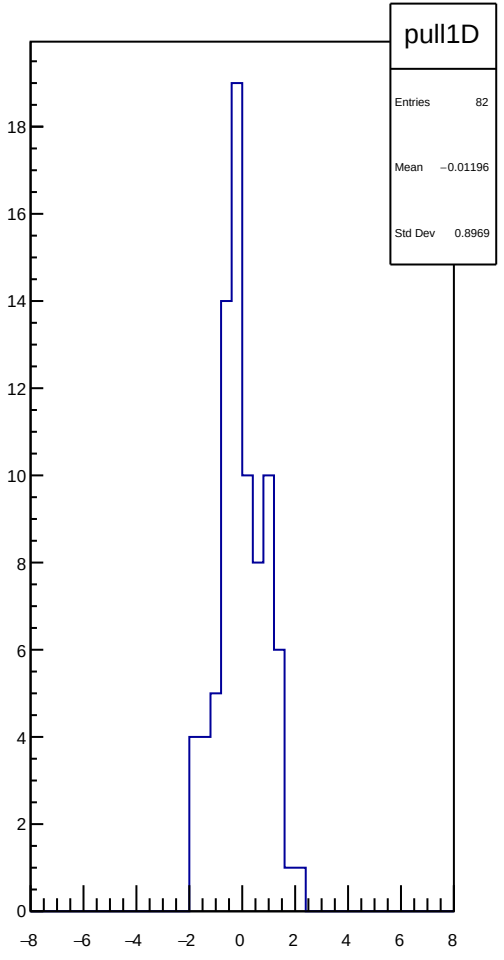

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.061e+06 / 81
p0 2.835e−10 ± 3.751e−13
14
12
10
8
6
4
2

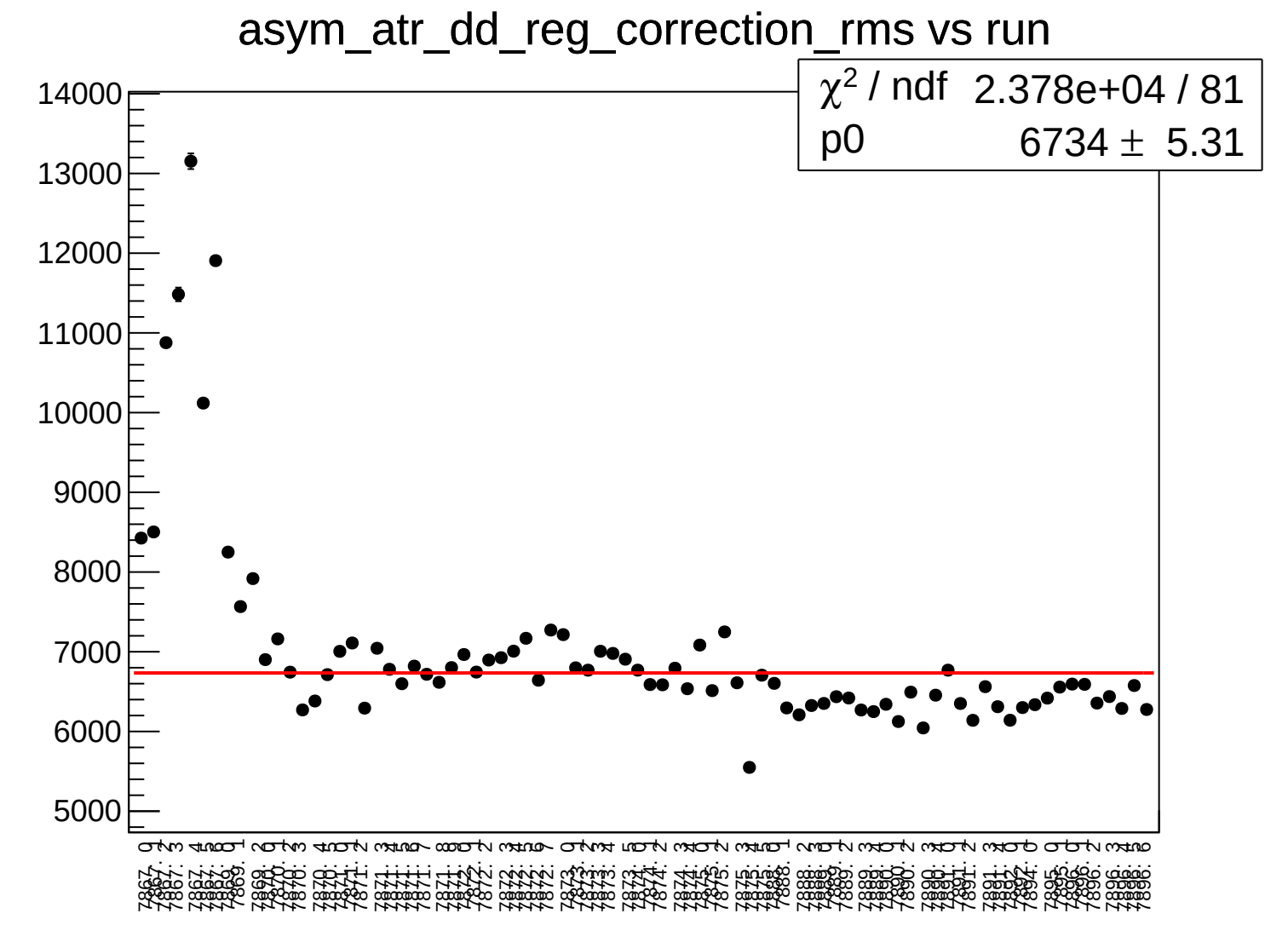

reg_asym_atr_dd_mean vs run
χ² / ndf 77.76 / 81
p0 −3467 ± 2177
pull
Entries 82
Mean 1178
Std Dev 0

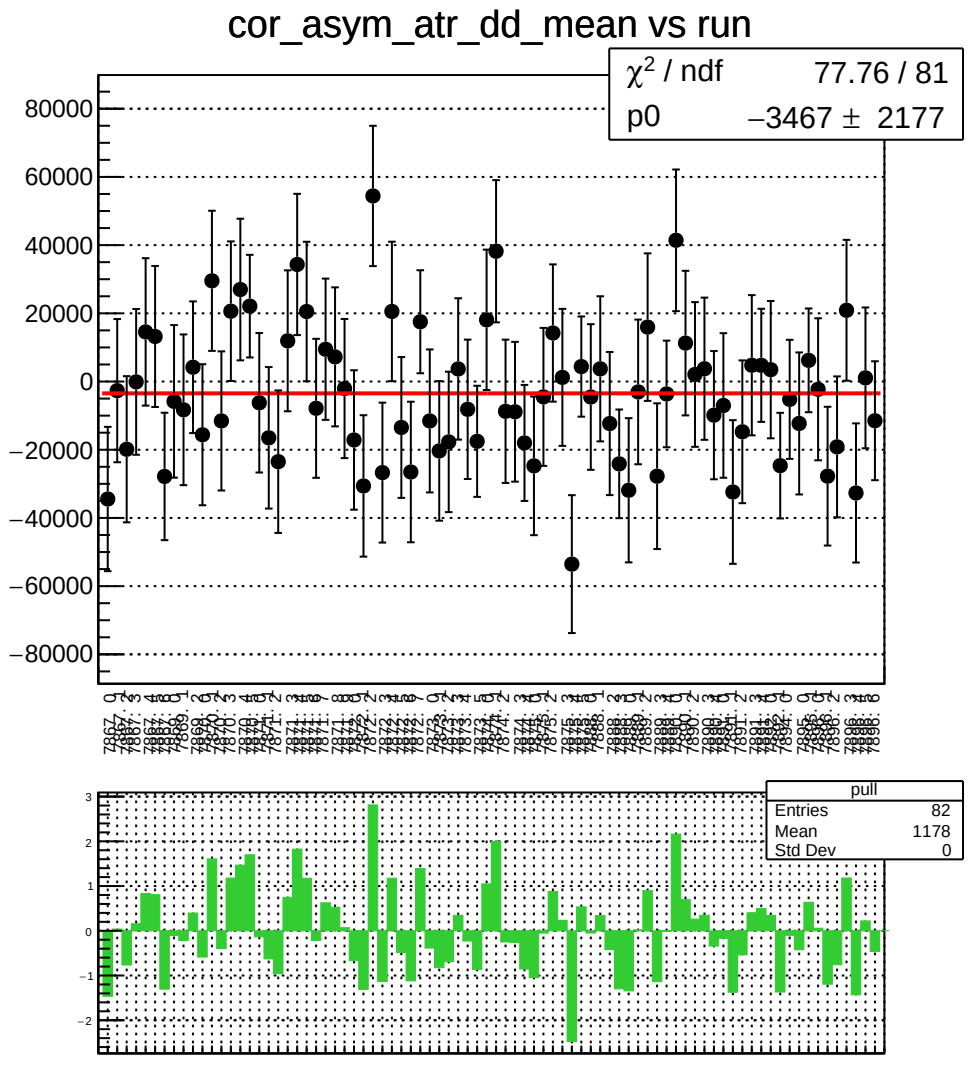

pull1D
Entries 82
Mean −0.002753
Std Dev 0.9738

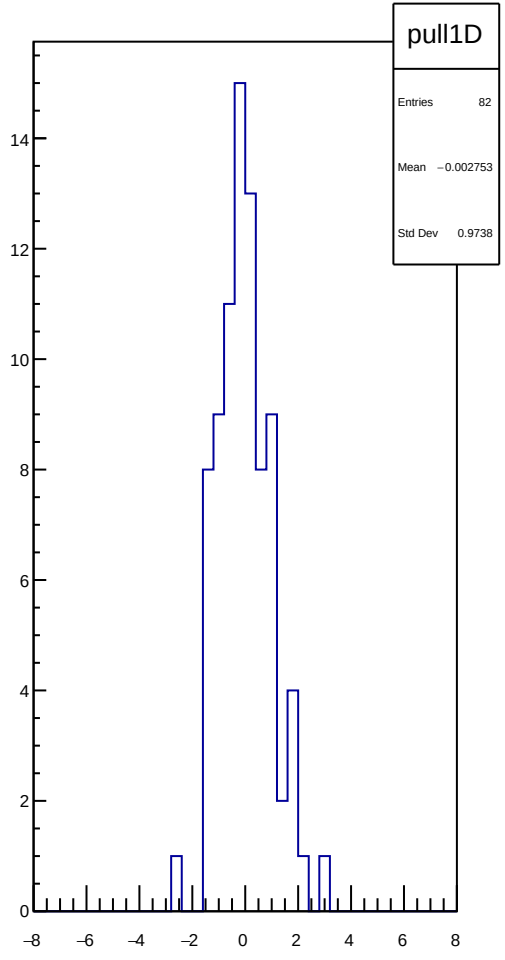

reg_asym_atr_dd_rms vs run
χ^2 / ndf 828.3 / 81
p0 1966 ± 1.539
2150
2100
2050
2000
1950
1900
1850

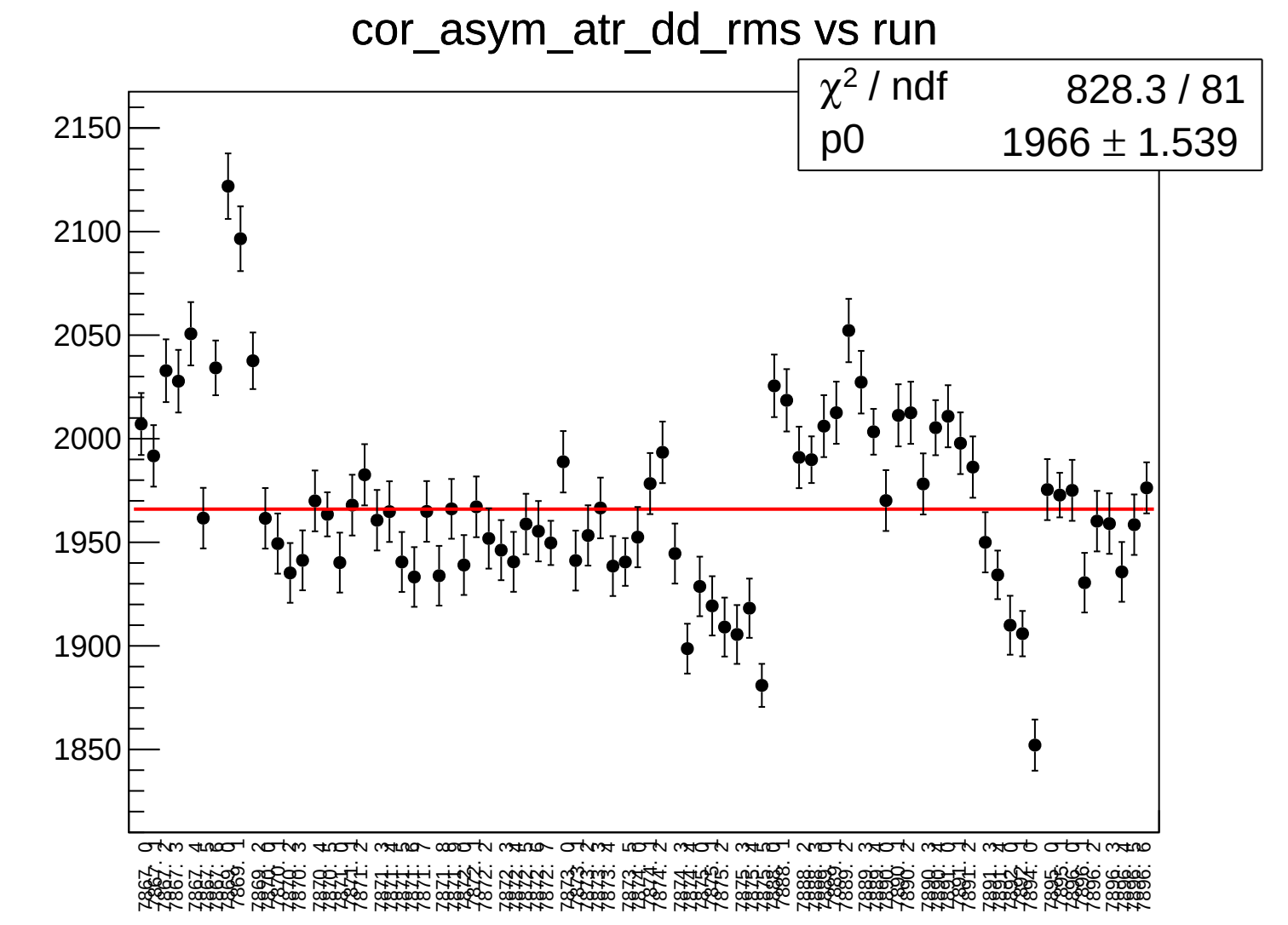

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.97 / 81
p0 −3729 ± 7509
pull
Entries 82
Mean −162.6
Std Dev 0

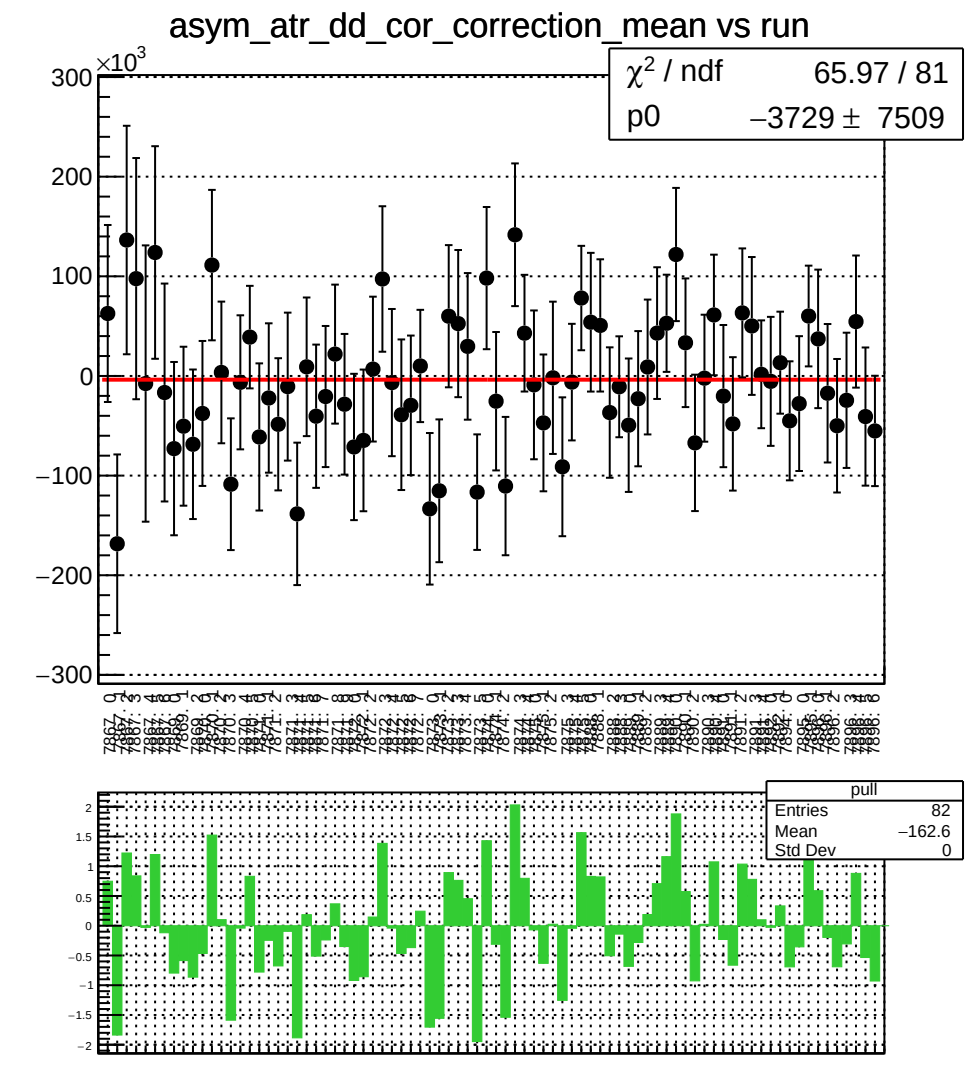

pull1D
Entries 82
Mean −0.01196
Std Dev 0.8969

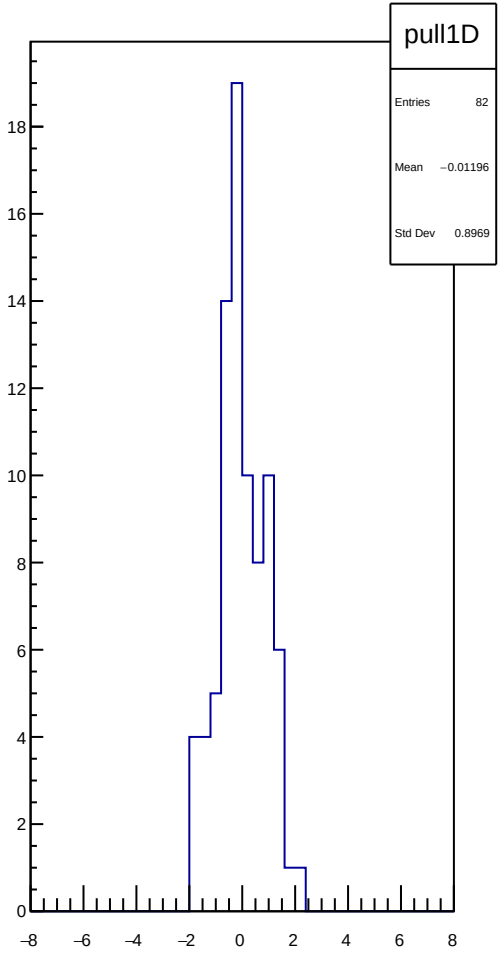

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 2.378e+04 / 81
p0 6734 ± 5.31
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

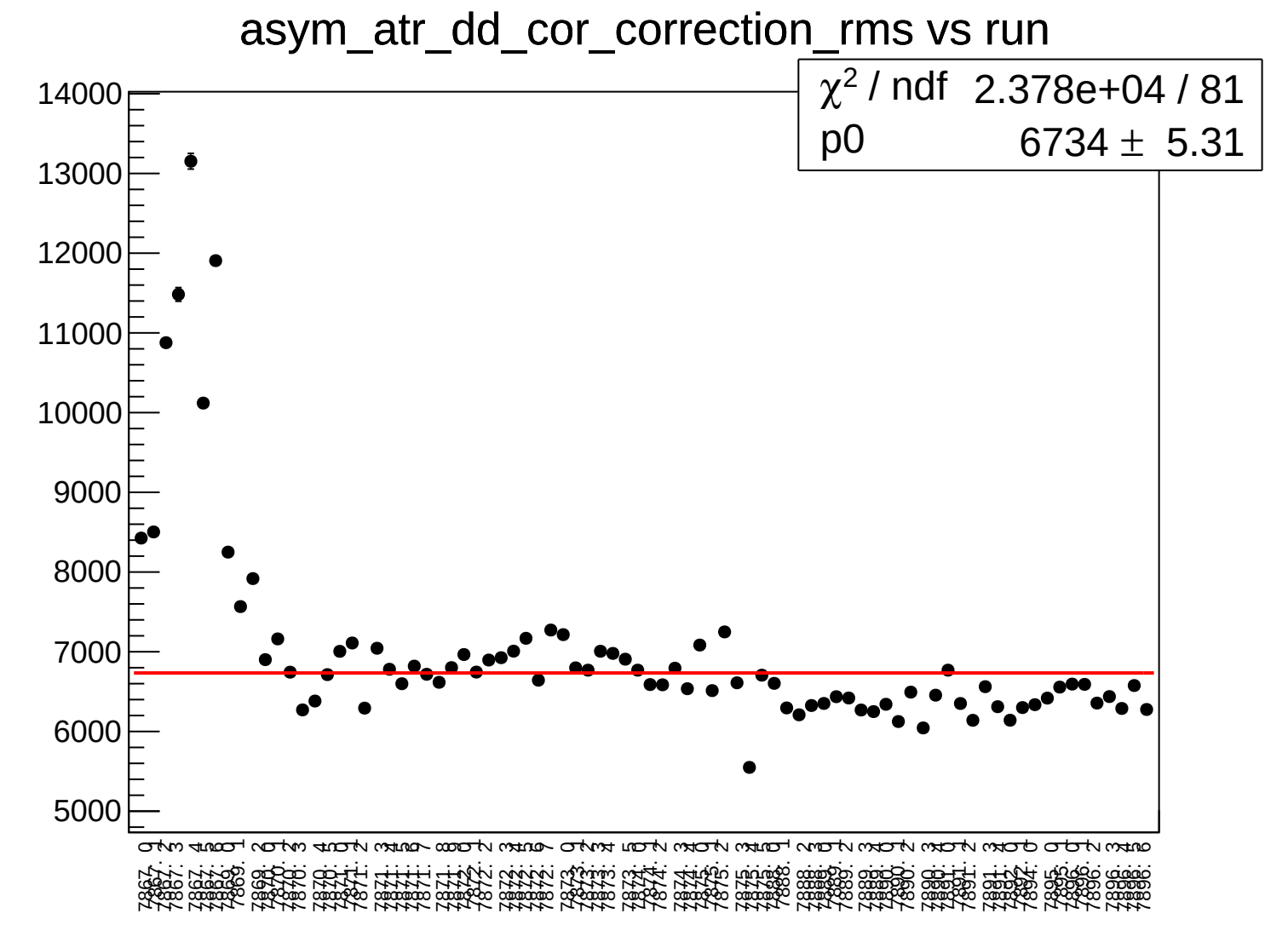

cor_asym_atr_dd_mean vs run
χ² / ndf 77.76 / 81
p0 −3467 ± 2177
pull
Entries 82
Mean 1178
Std Dev 0

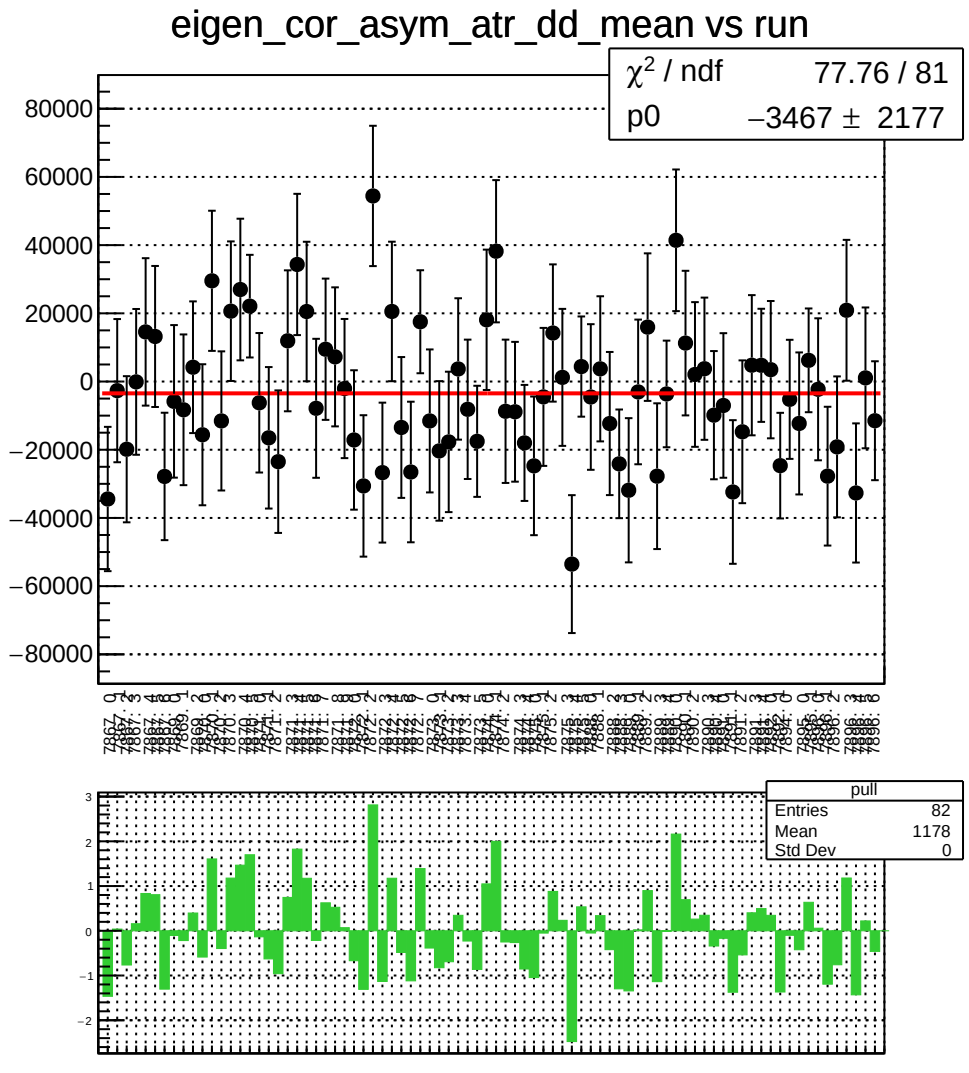

pull1D
Entries 82
Mean −0.002753
Std Dev 0.9738

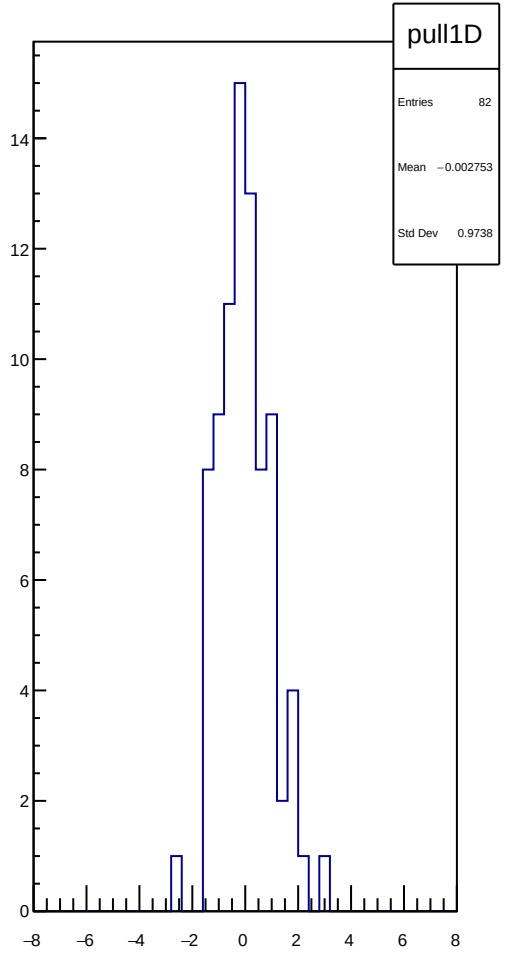

cor_asym_atr_dd_rms vs run
χ^2 / ndf 828.3 / 81
p0 1966 ± 1.539
2150
2100
2050
2000
1950
1900
1850

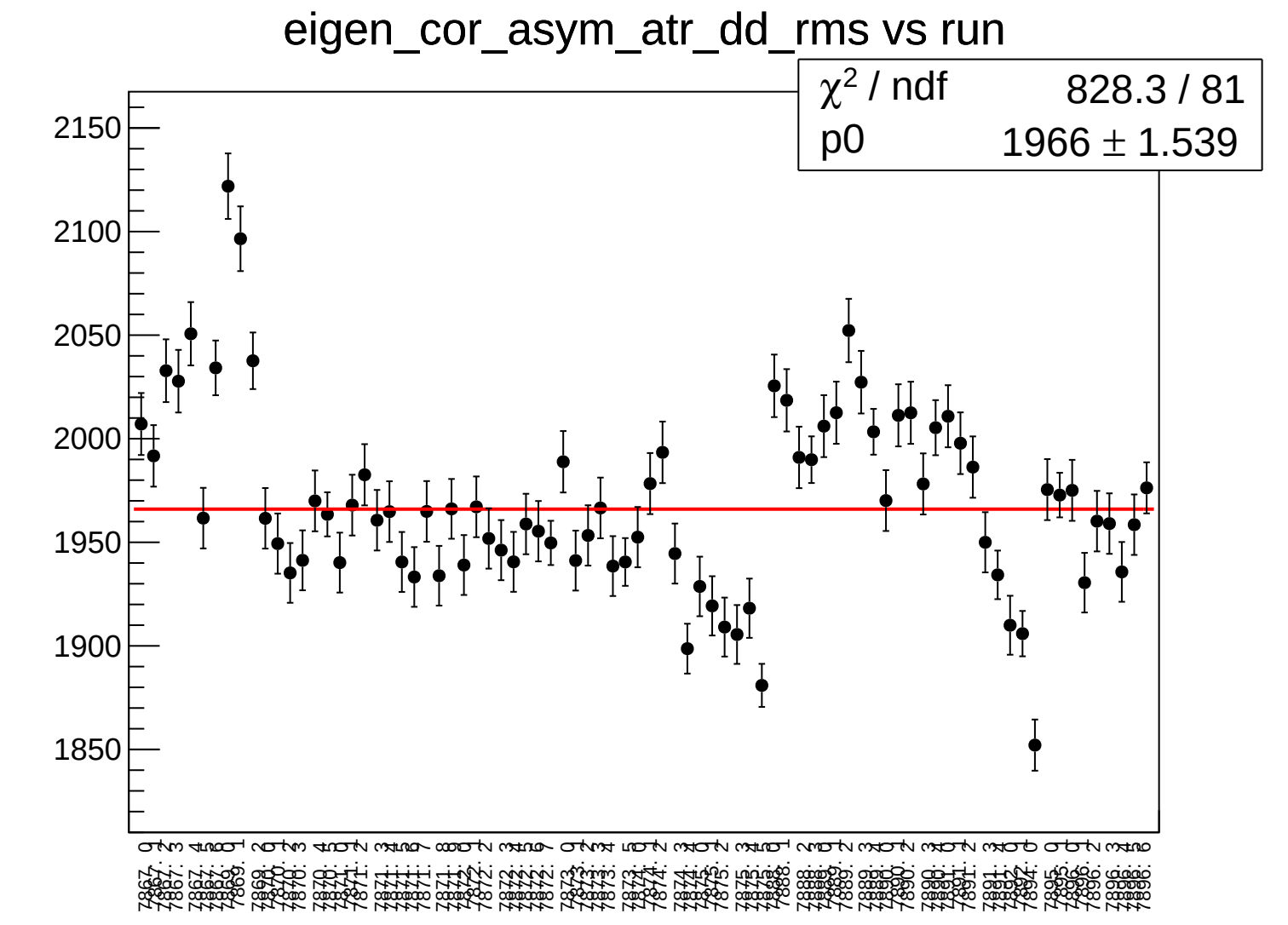

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 65.97 / 81
p0 −3729 ± 7509
×10³
pull
Entries 82
Mean −162.6
Std Dev 0

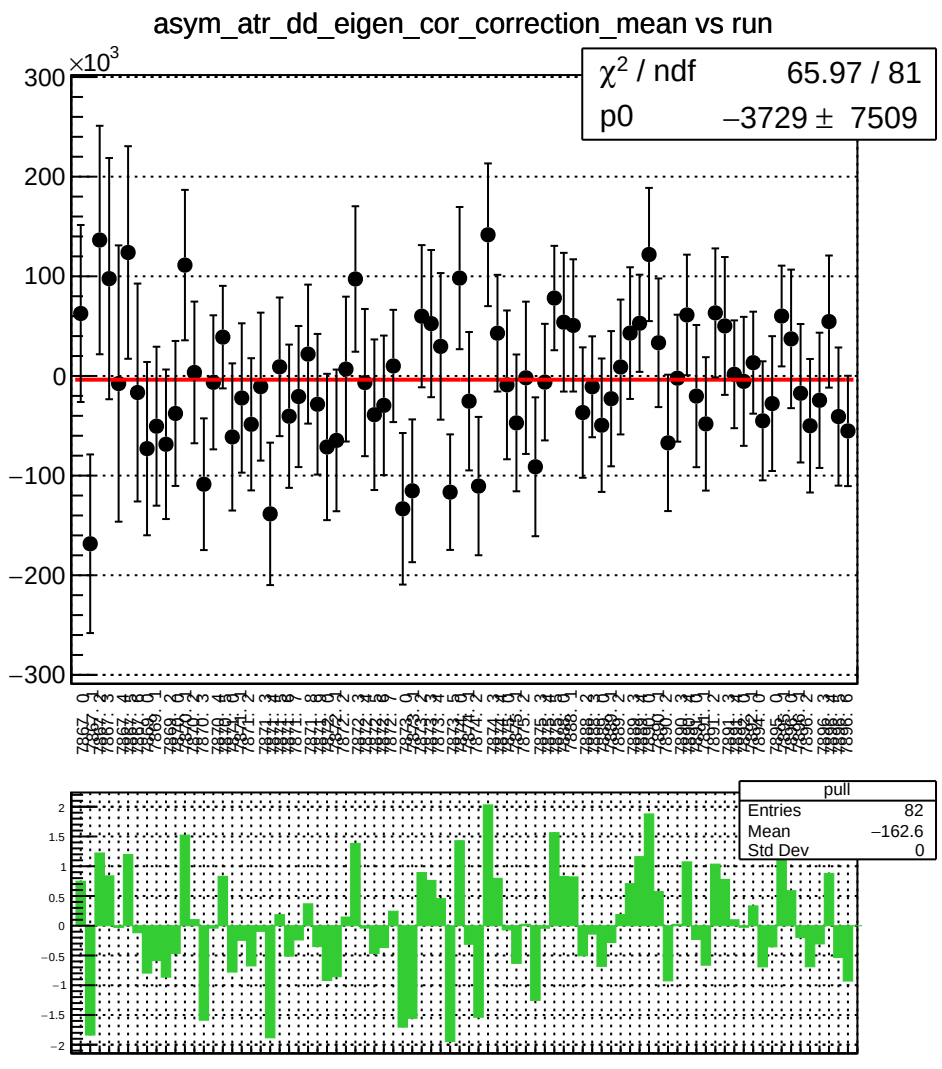

pull1D
Entries 82
Mean −0.01196
Std Dev 0.8969

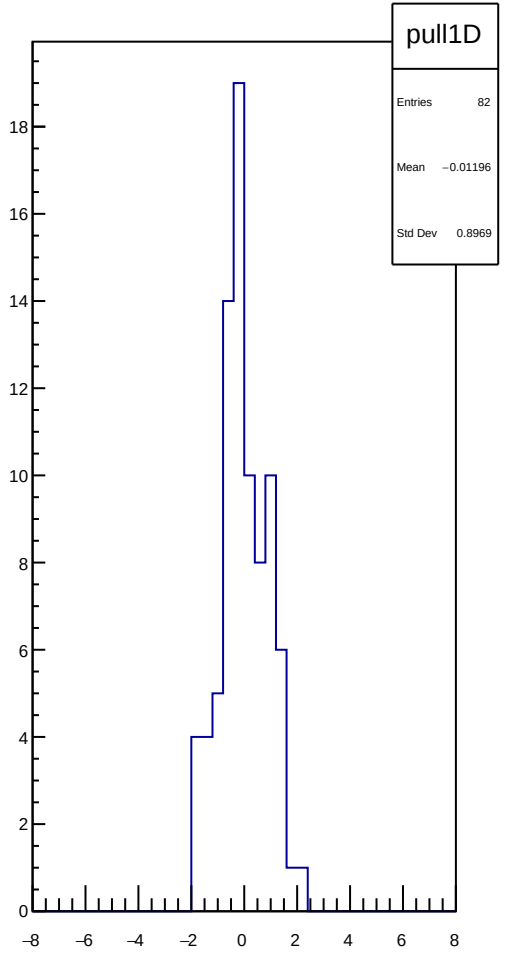

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2.378e+04 / 81
p0 6734 ± 5.31
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

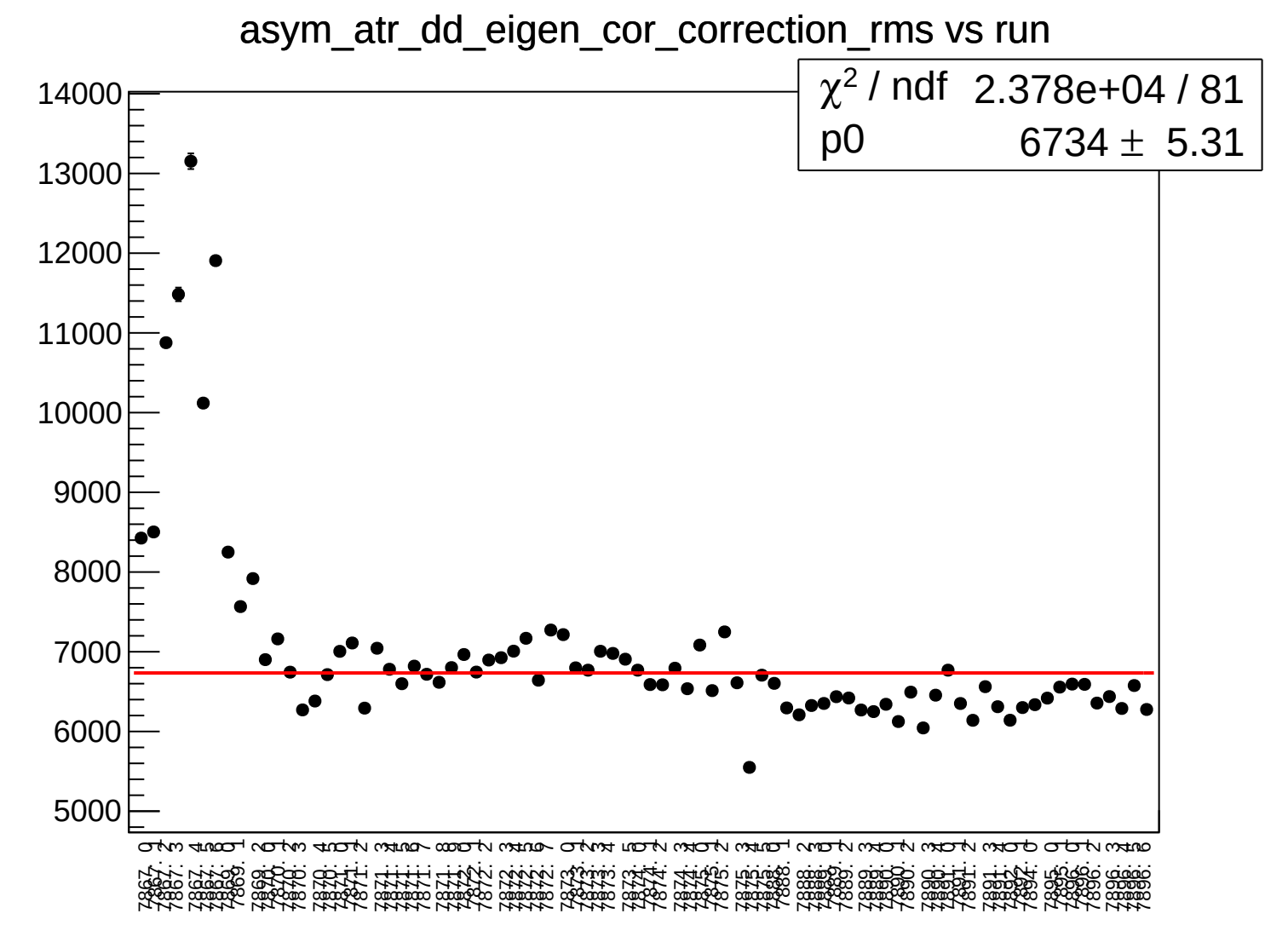

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 77.76 / 81
p0 −3467 ± 2177
pull
Entries 82
Mean 1178
Std Dev 0

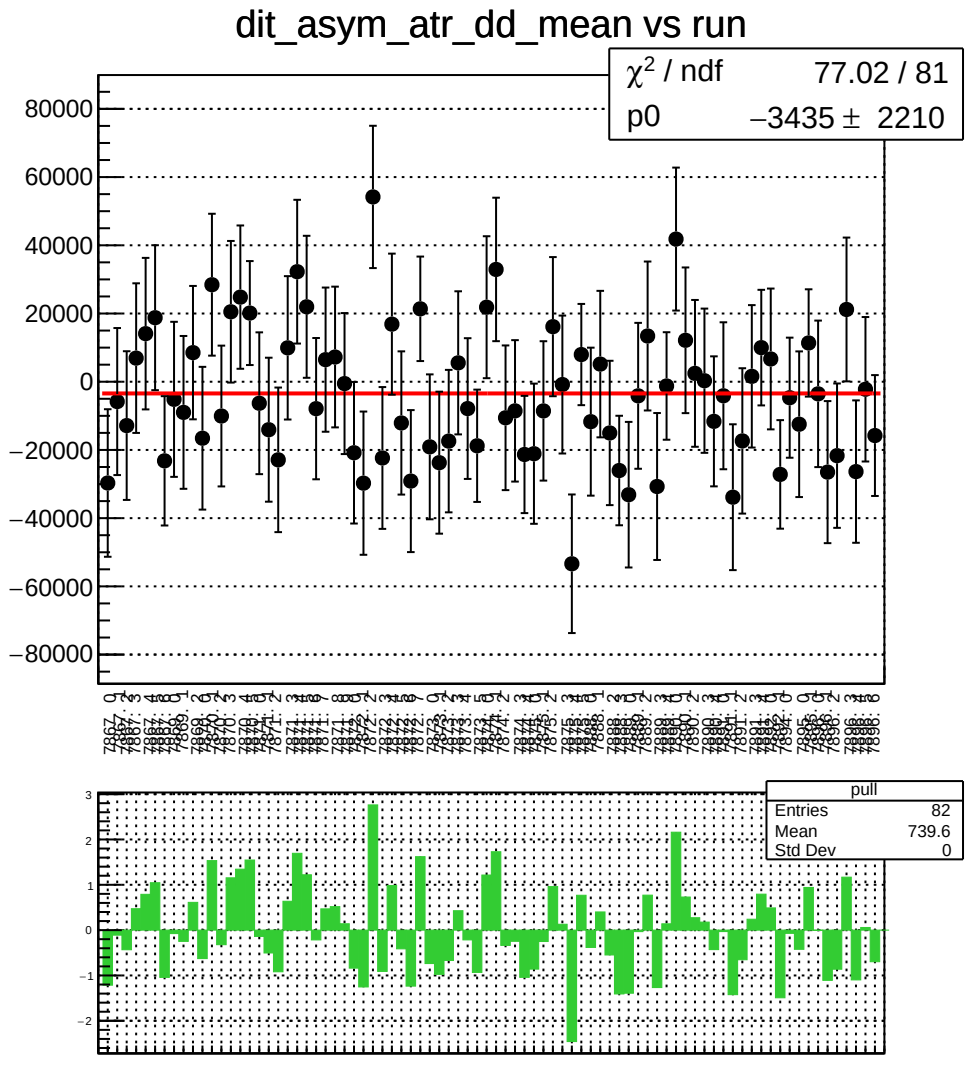

pull1D
Entries 82
Mean −0.002753
Std Dev 0.9738

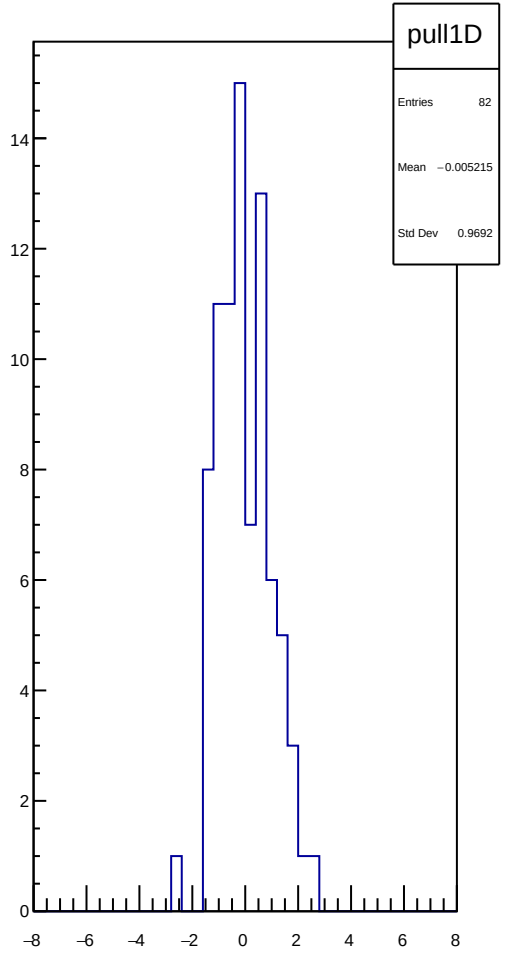

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 828.3 / 81
p0 1966 ± 1.539
2150
2100
2050
2000
1950
1900
1850

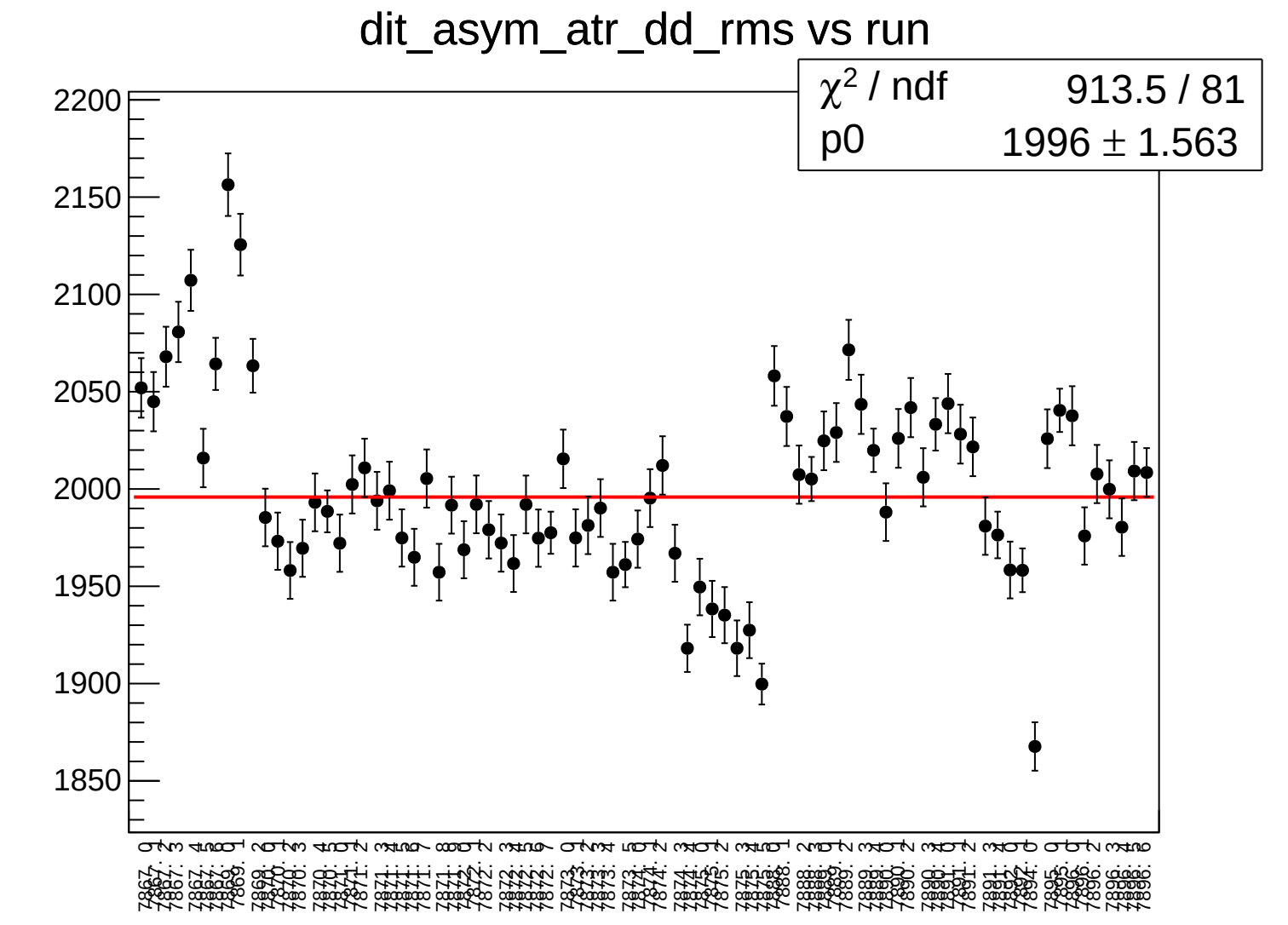

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.97 / 81
p0 −3729 ± 7509
×10³
pull
Entries 82
Mean −162.6
Std Dev 0

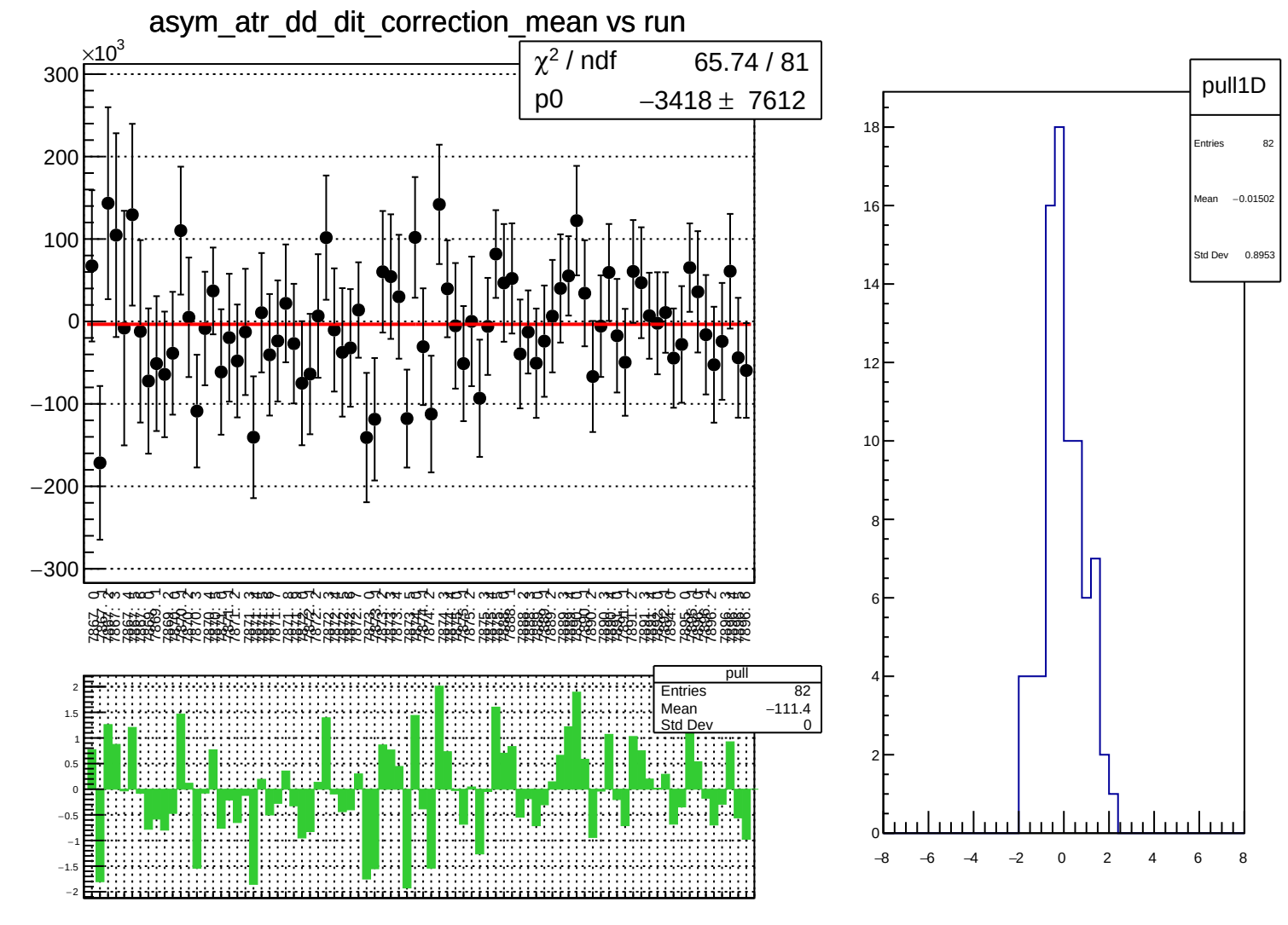

pull1D
Entries 82
Mean −0.01196
Std Dev 0.8969

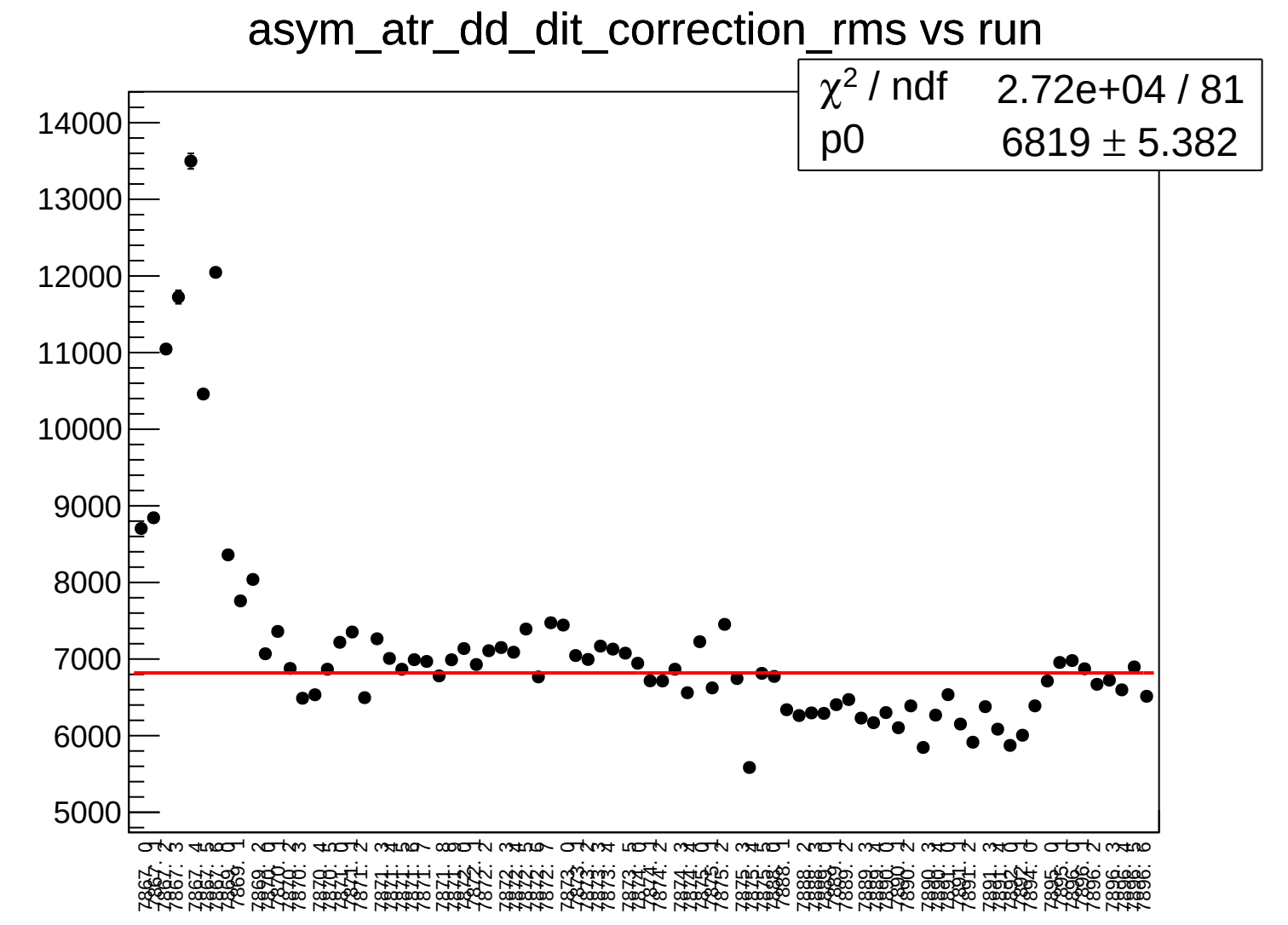

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.378e+04 / 81
p0 6734 ± 5.31
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

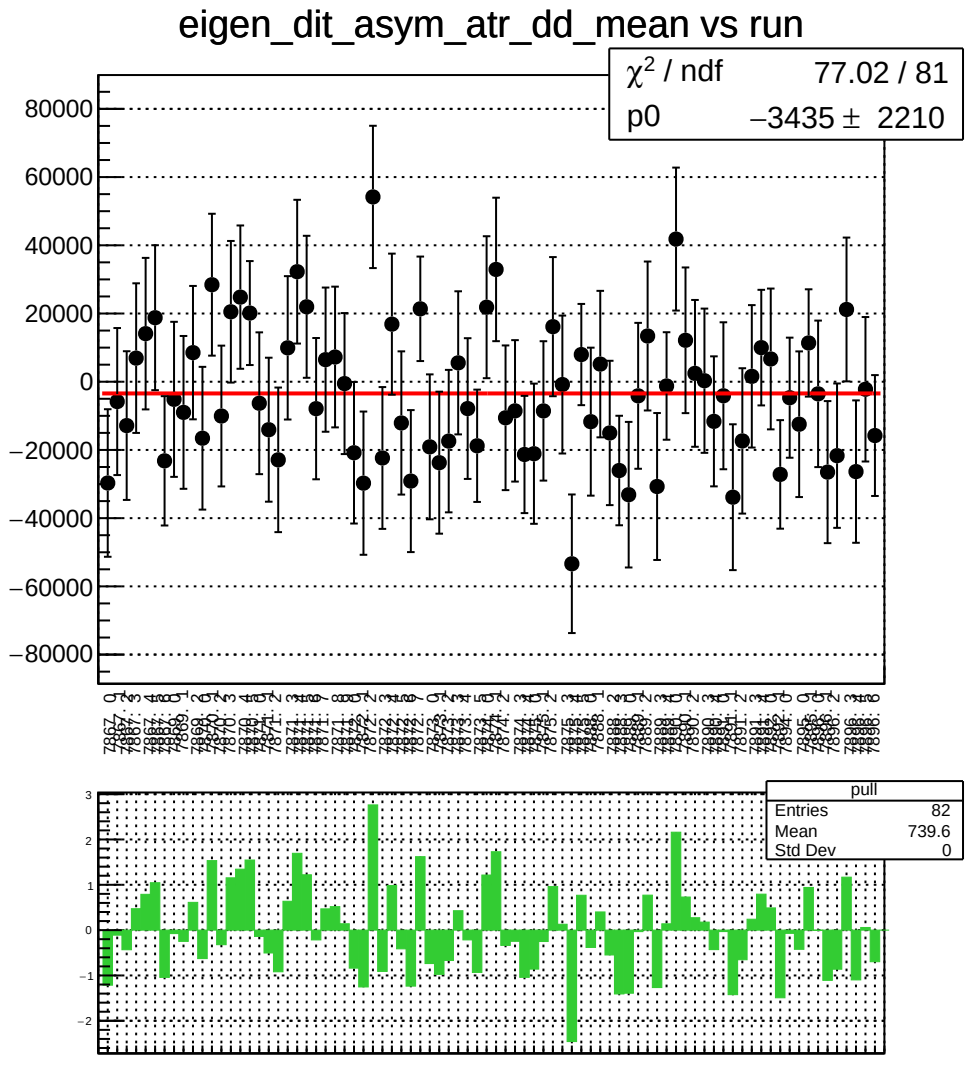

dit_asym_atr_dd_mean vs run
χ² / ndf 77.02 / 81
p0 −3435 ± 2210
pull
Entries 82
Mean 739.6
Std Dev 0

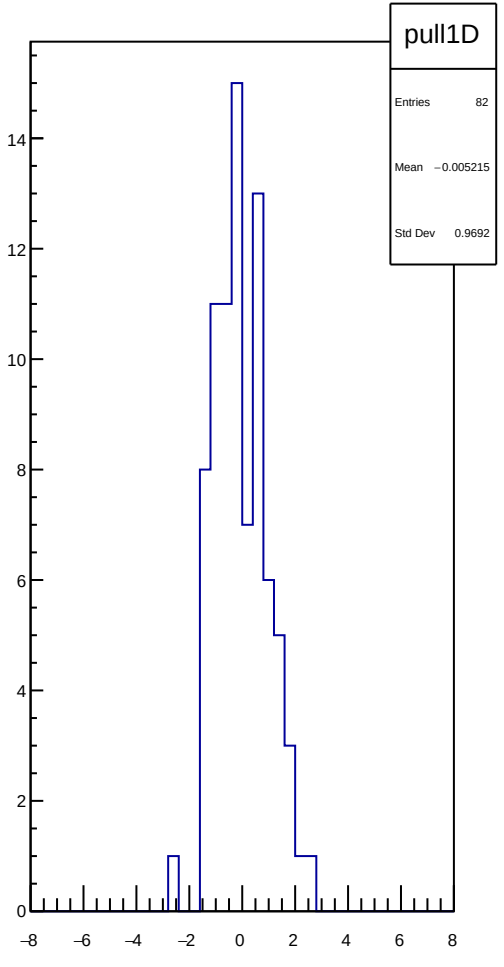

pull1D
Entries 82
Mean −0.005215
Std Dev 0.9692

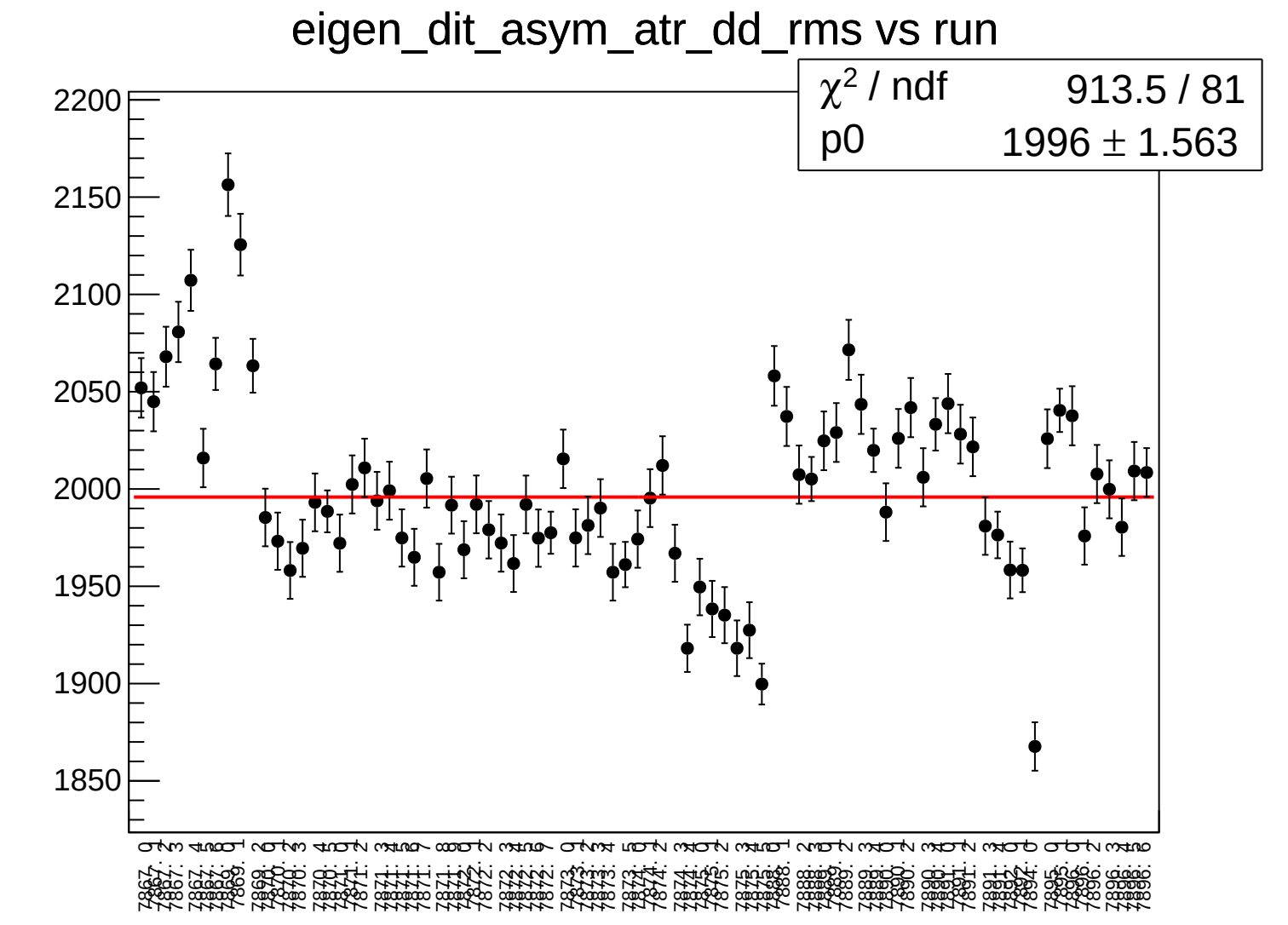

dit_asym_atr_dd_rms vs run
χ² / ndf 913.5 / 81
p0 1996 ± 1.563
2200
2150
2100
2050
2000
1950
1900
1850

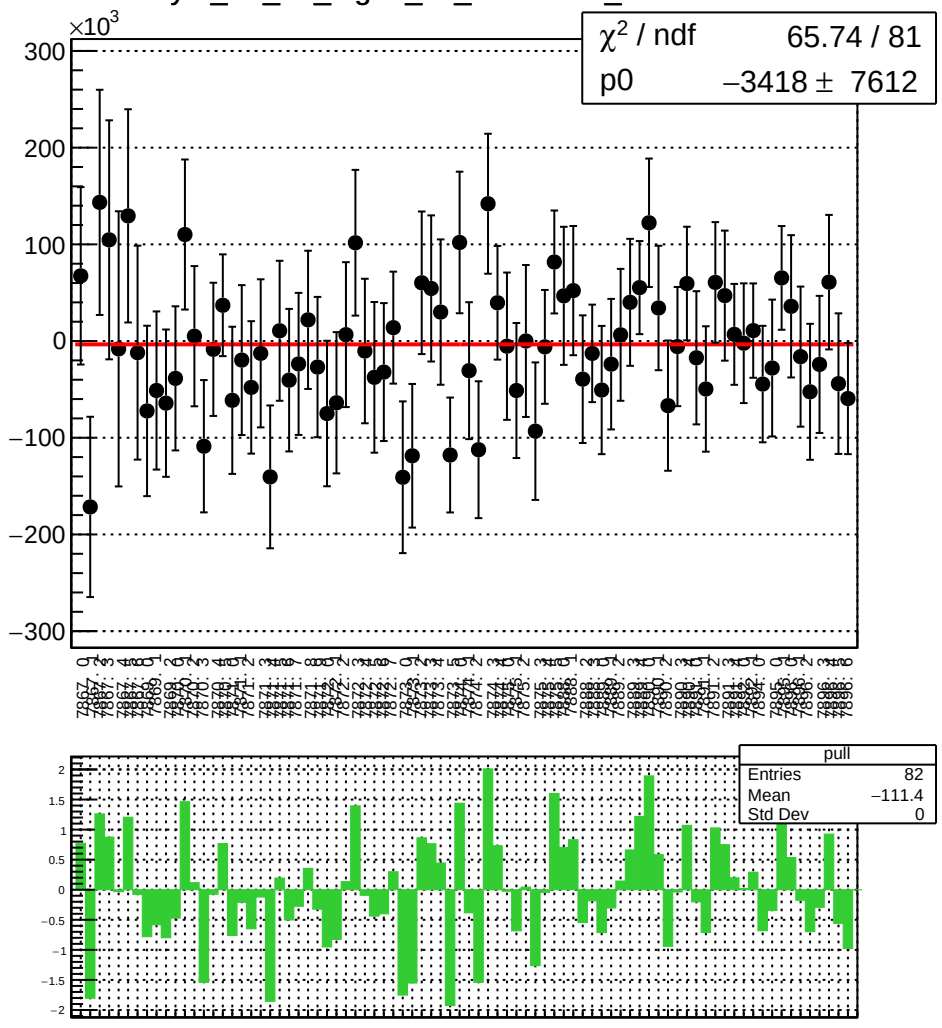

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.74 / 81
p0 −3418 ± 7612
pull
Entries 82
Mean −111.4
Std Dev 0
pull1D
Entries 82
Mean −0.01502
Std Dev 0.8953

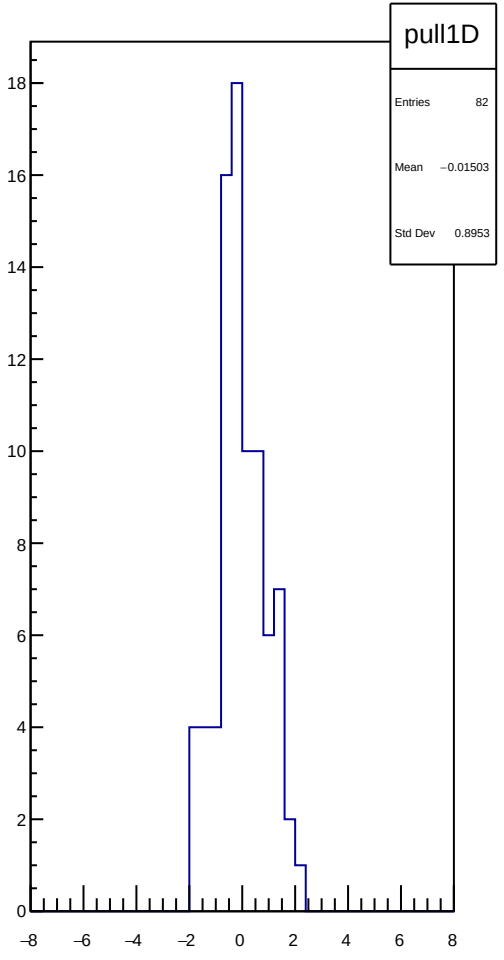

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 2.72e+04 / 81
p0 6819 ± 5.382
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

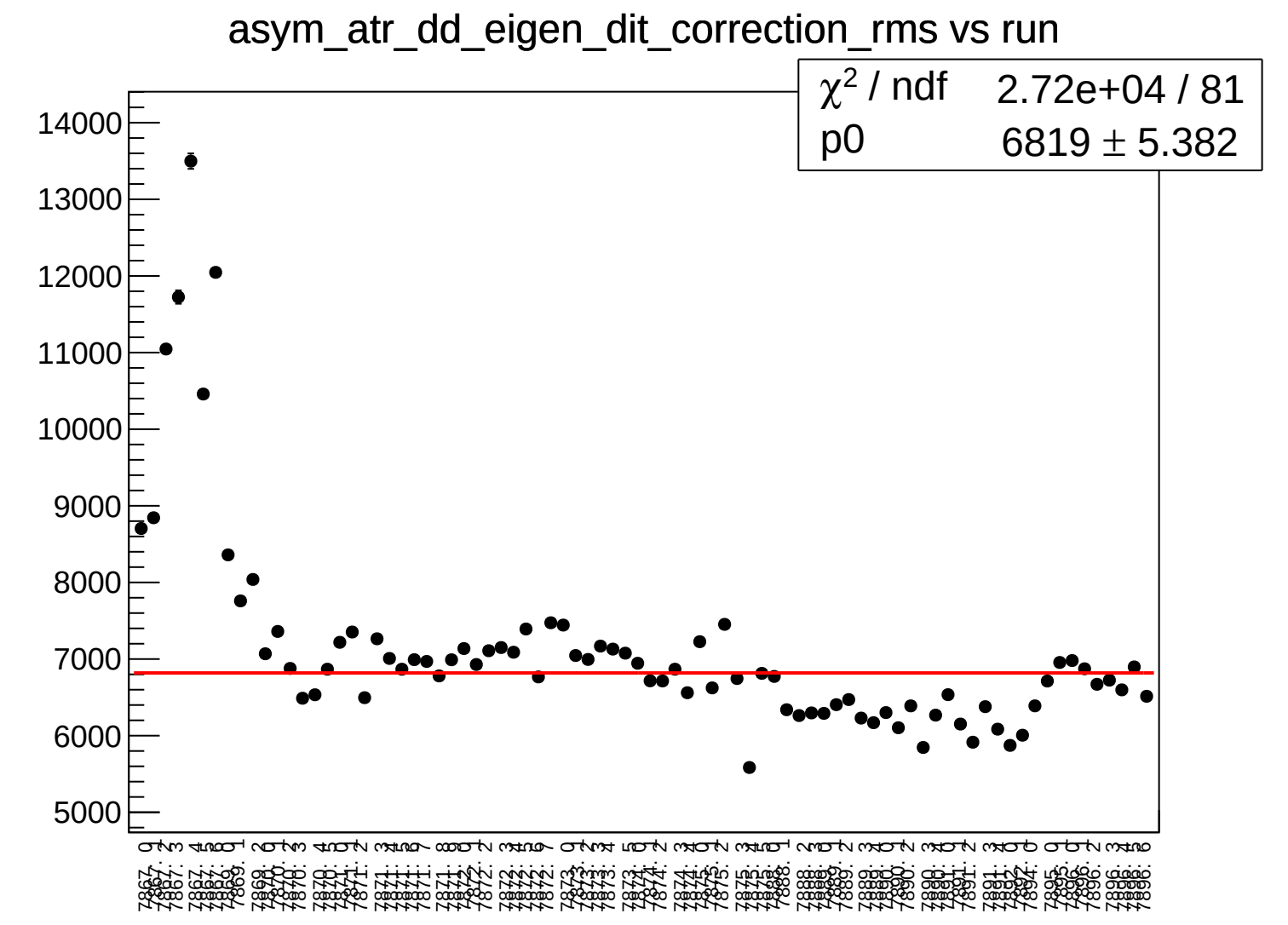

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 77.02 / 81
p0 −3435 ± 2210
pull
Entries 82
Mean 739.6
Std Dev 0

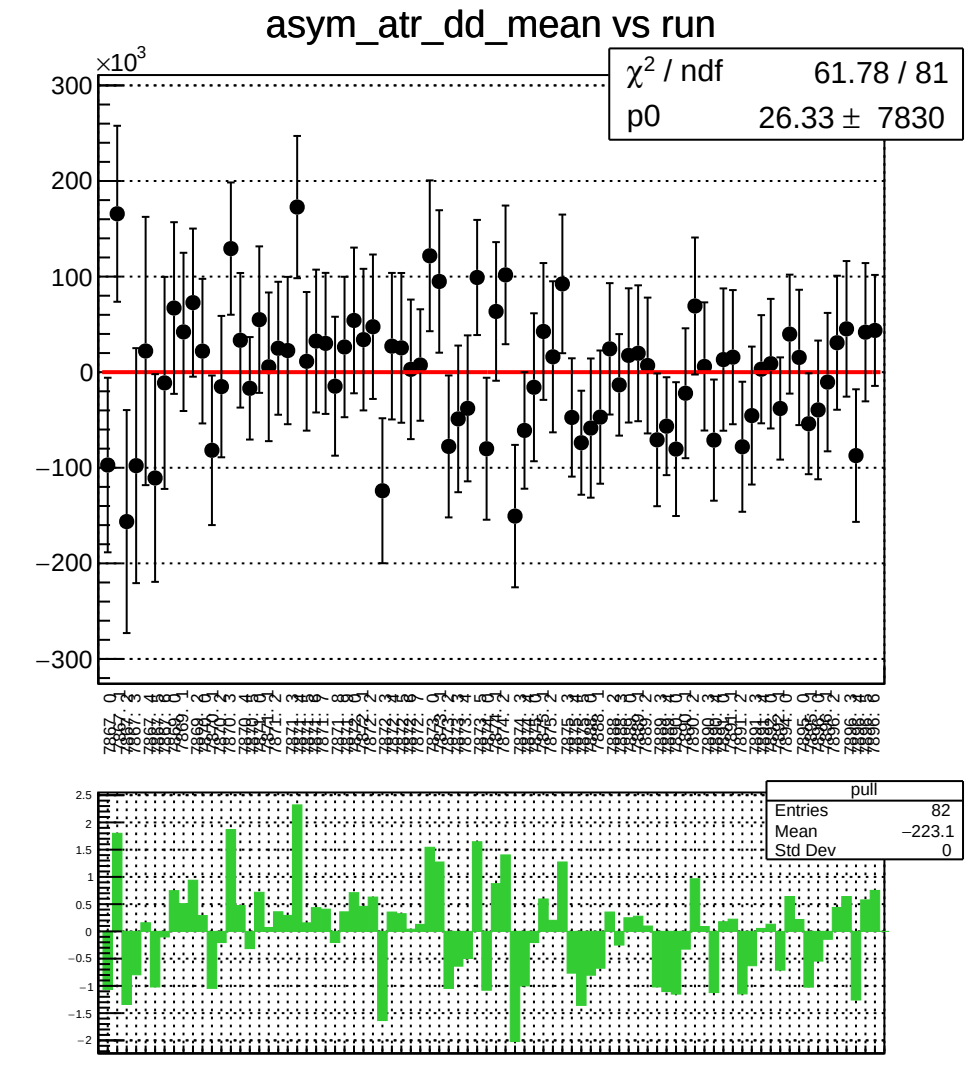

pull1D
Entries 82
Mean −0.005215
Std Dev 0.9692

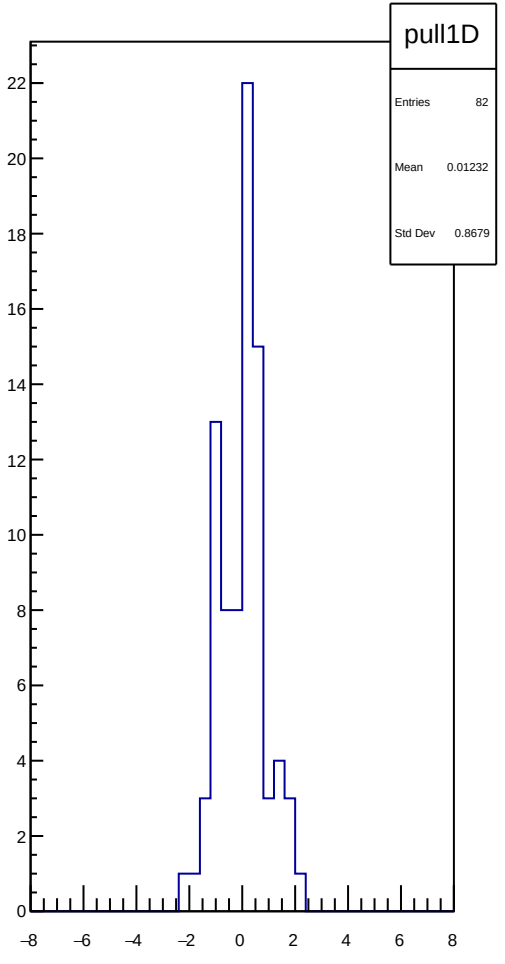

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 913.5 / 81
p0 1996 ± 1.563
2200
2150
2100
2050
2000
1950
1900
1850

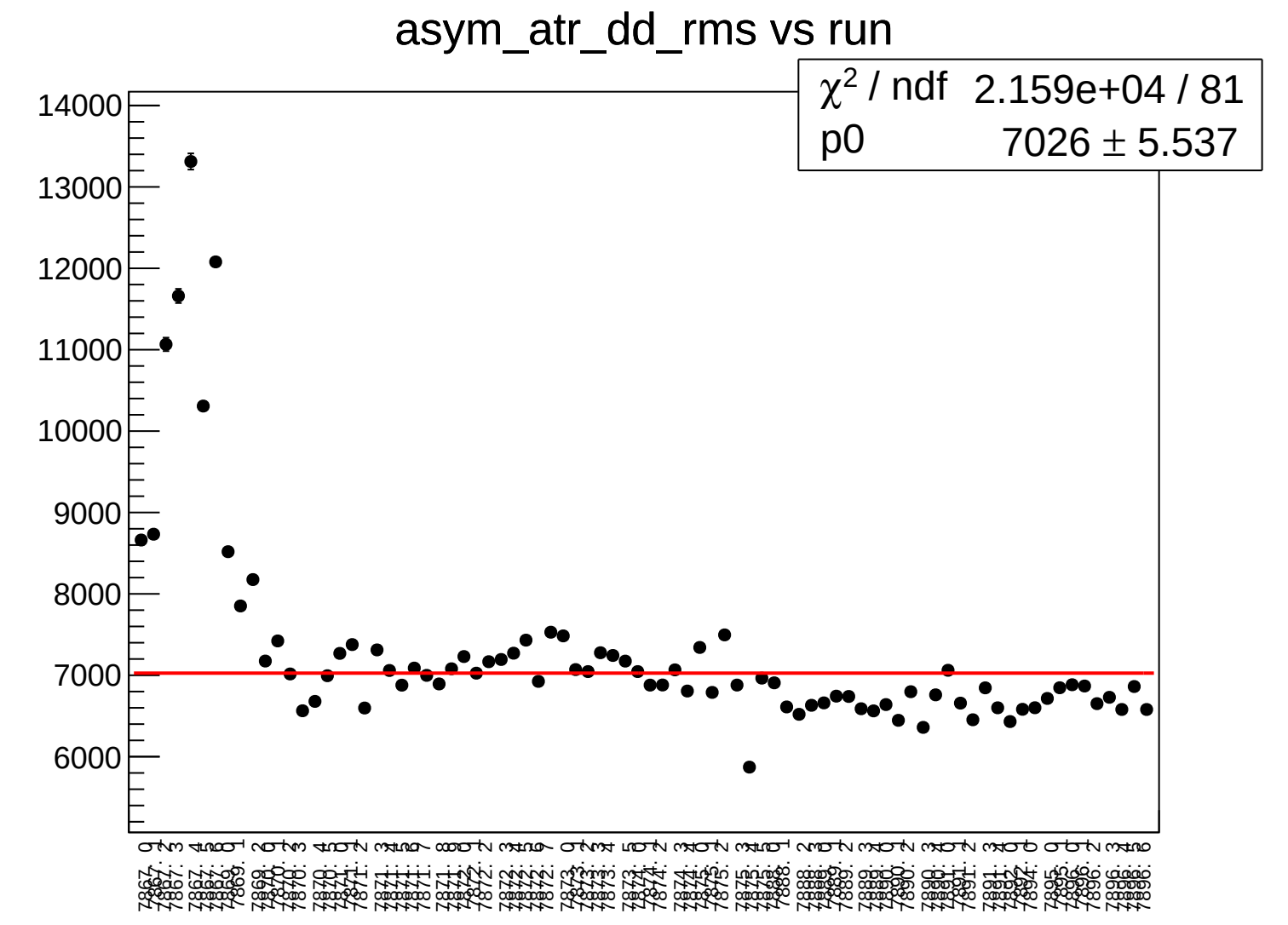

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.74 / 81
p0 −3418 ± 7612
pull
Entries 82
Mean −111.4
Std Dev 0

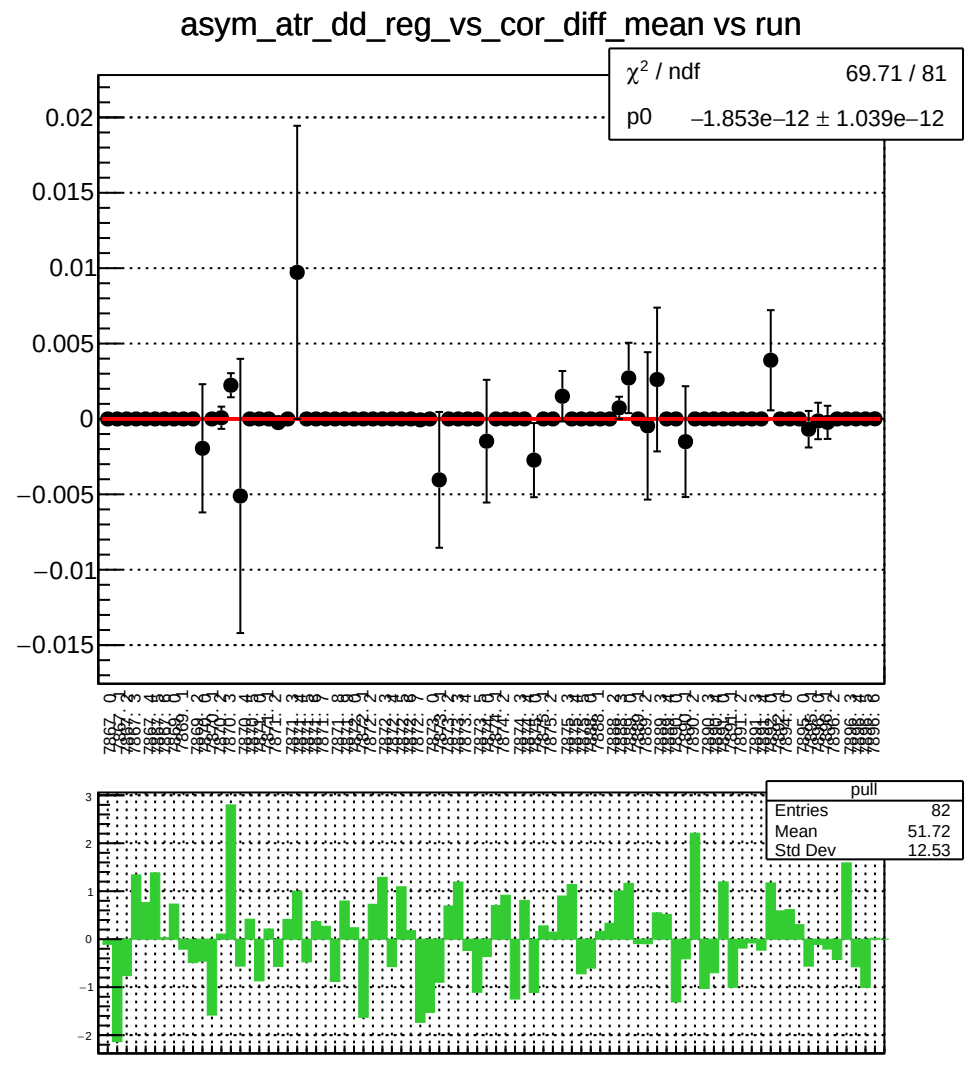

pull1D
Entries 82
Mean −0.01503
Std Dev 0.8953

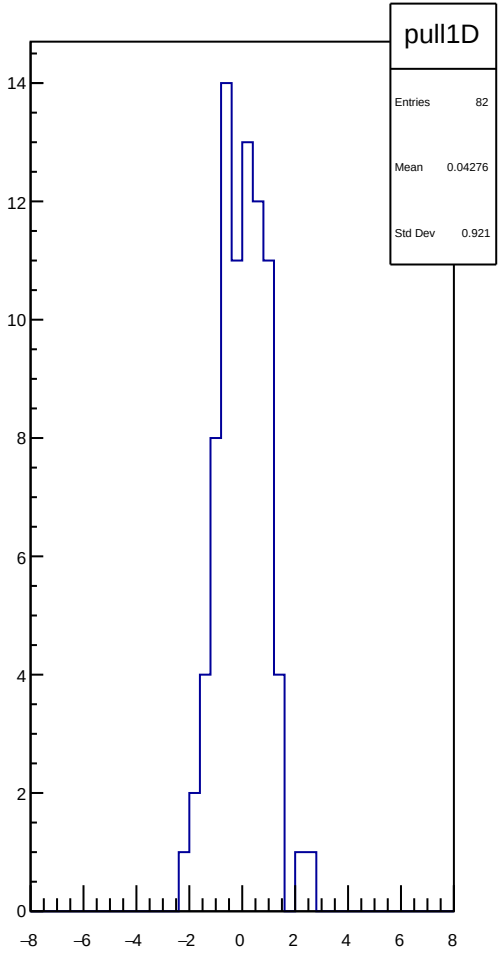

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2.72e+04 / 81
p0 6819 ± 5.382
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

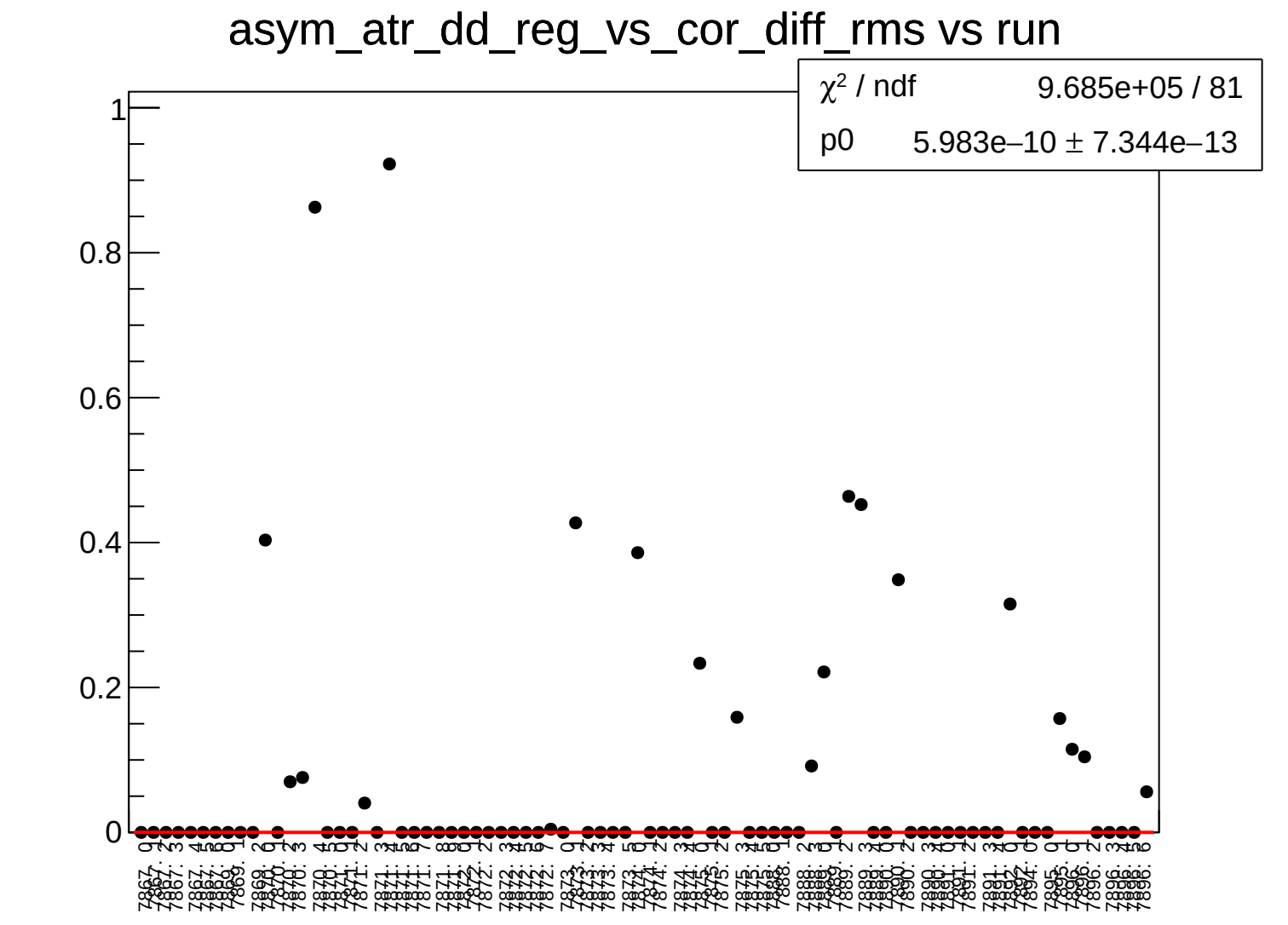

asym_atr_dd_mean vs run
×10^3
χ² / ndf 61.78 / 81
p0 26.33 ± 7830
pull
Entries 82
Mean −223.1
Std Dev 0

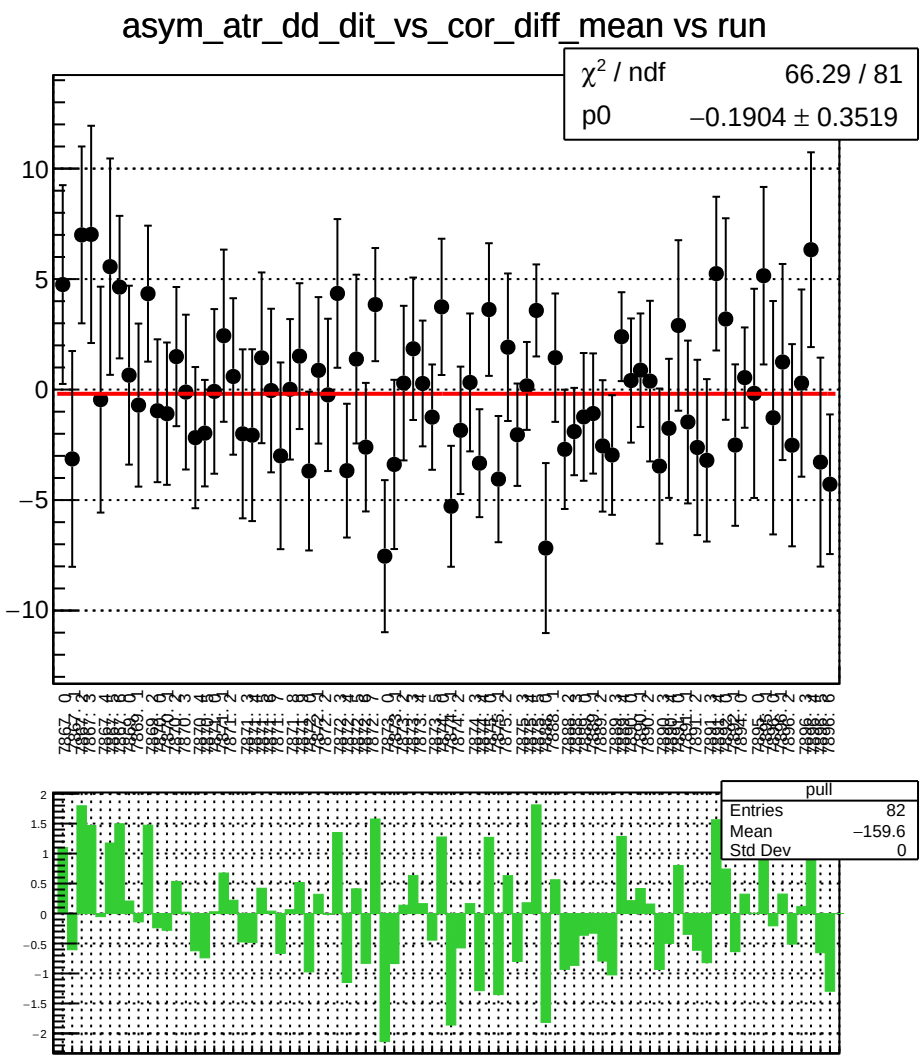

pull1D
Entries 82
Mean 0.01232
Std Dev 0.8679

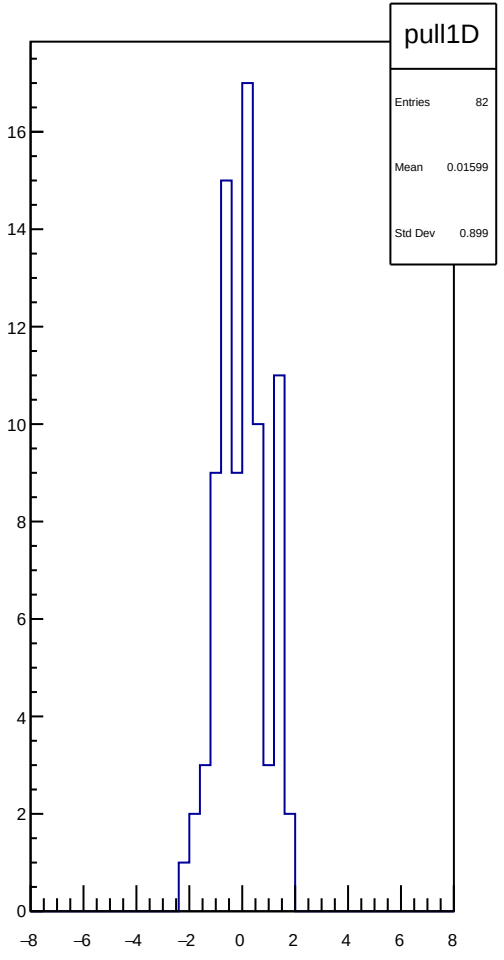

asym_atr_dd_rms vs run
χ^2 / ndf 2.159e+04 / 81
p0 7026 ± 5.537
14000
13000
12000
11000
10000
9000
8000
7000
6000

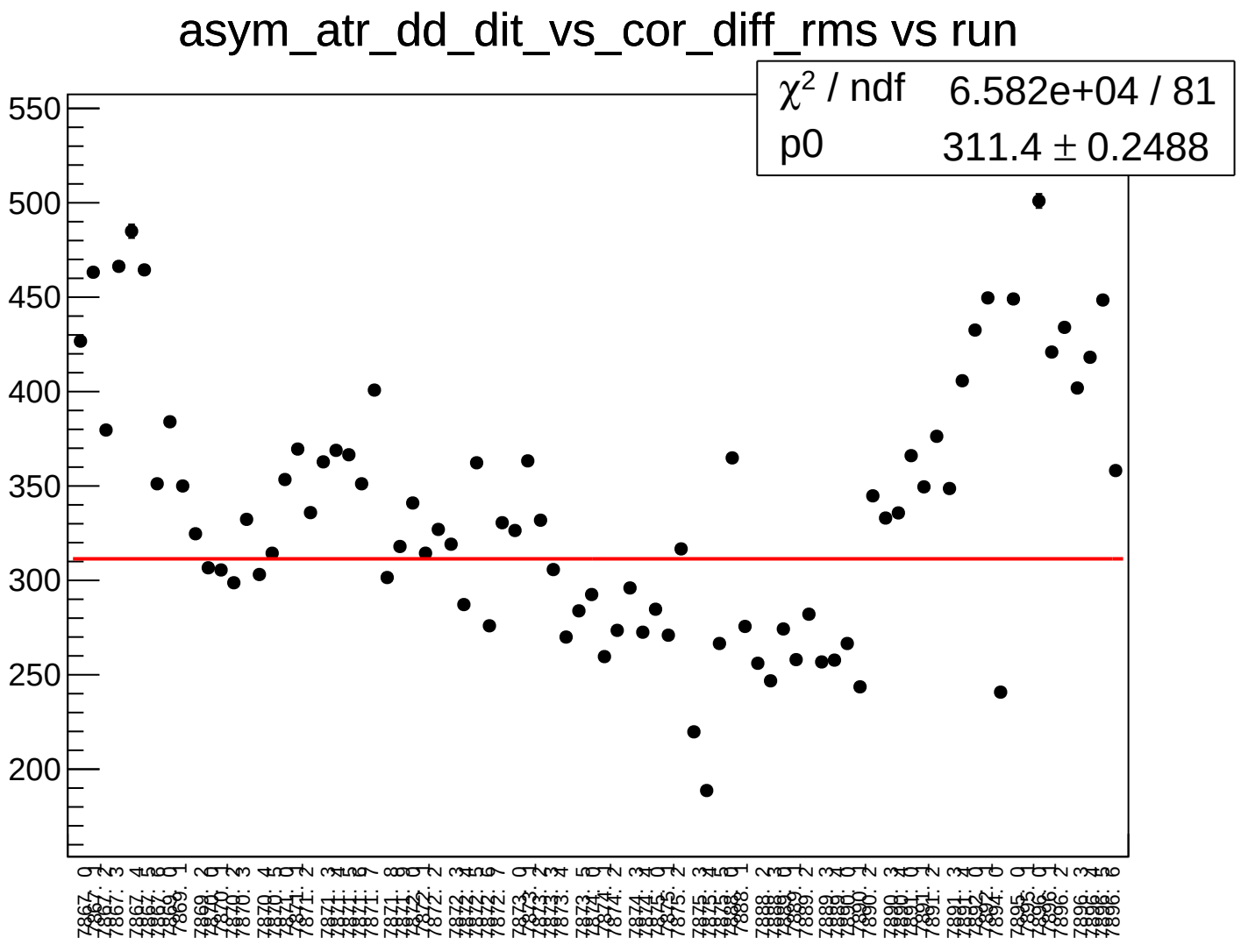

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.71 / 81
p0 −1.853e−12 ± 1.039e−12
pull
Entries 82
Mean 51.72
Std Dev 12.53

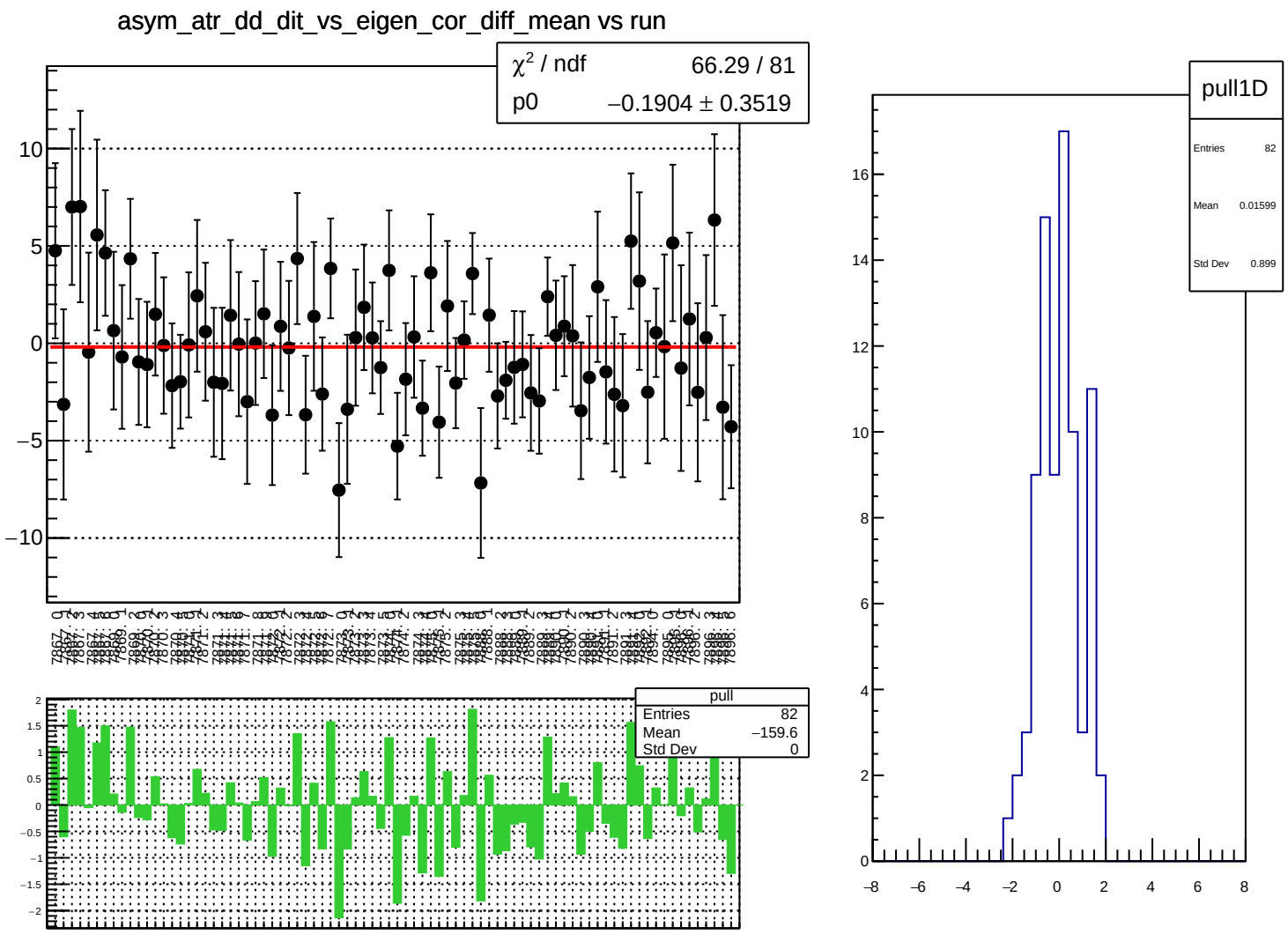

pull1D
Entries 82
Mean 0.04276
Std Dev 0.921

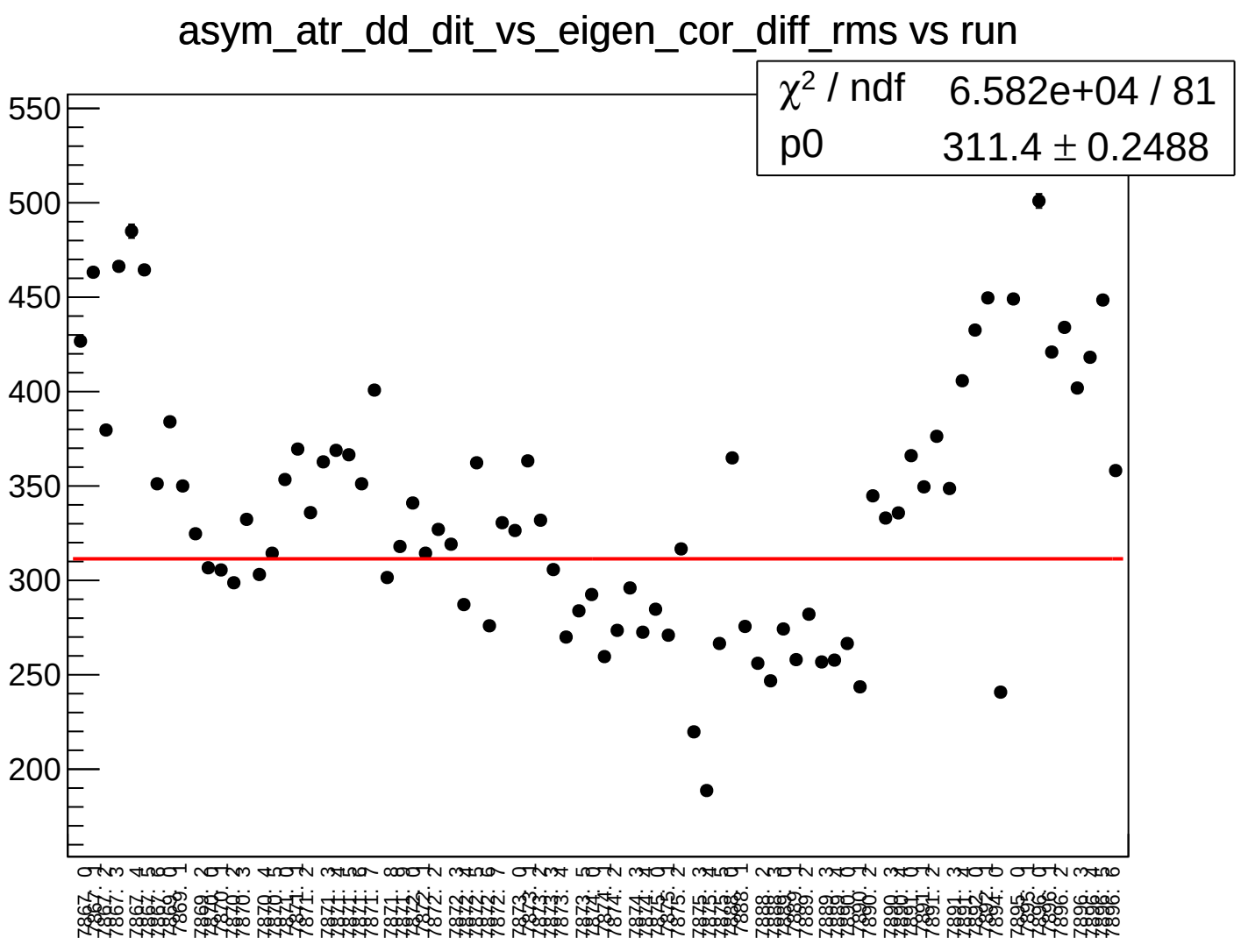

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.685e+05 / 81
p0 5.983e−10 ± 7.344e−13
1
0.8
0.6
0.4
0.2
0

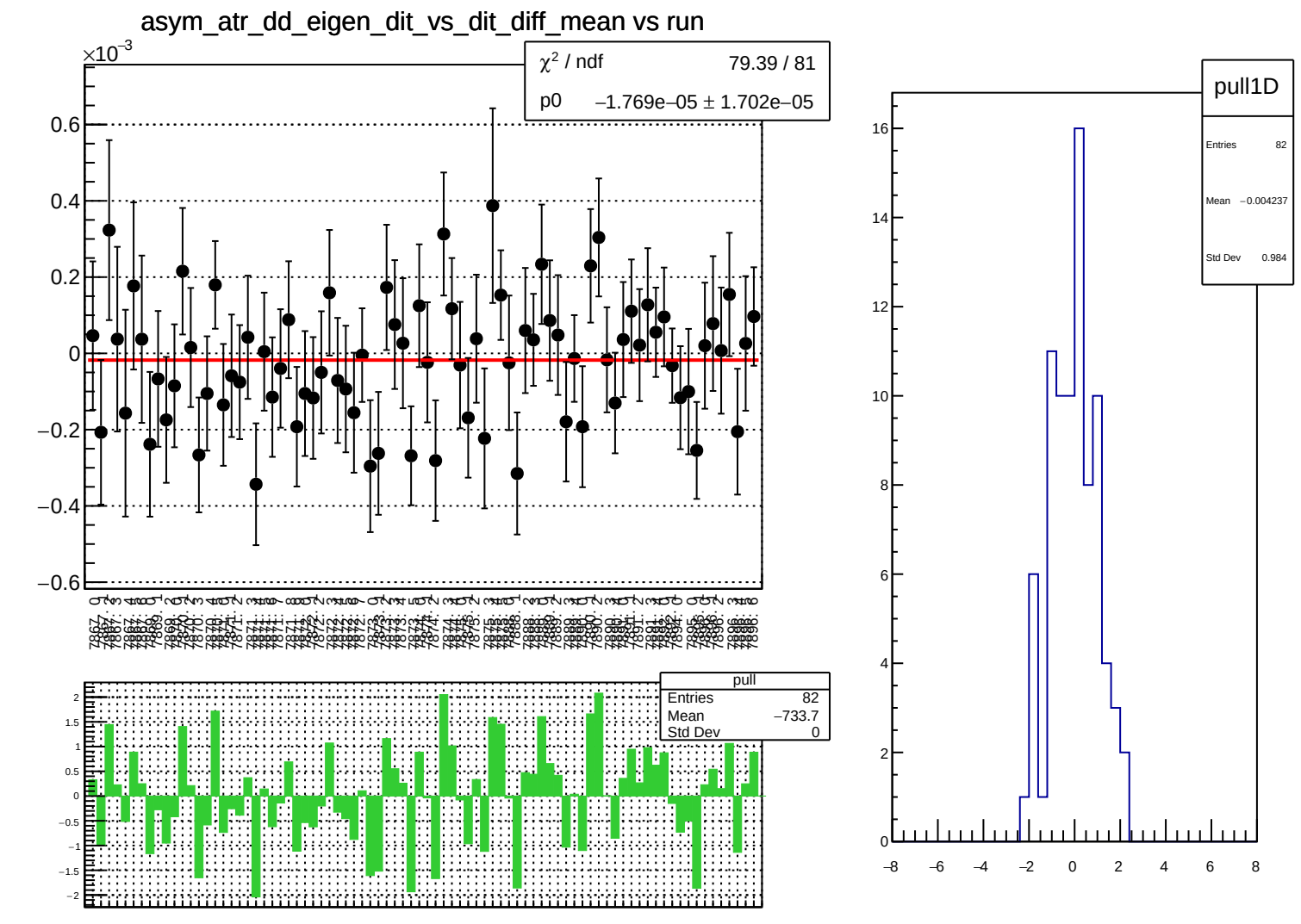

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.29 / 81
p0 −0.1904 ± 0.3519
pull
Entries 82
Mean −159.6
Std Dev 0

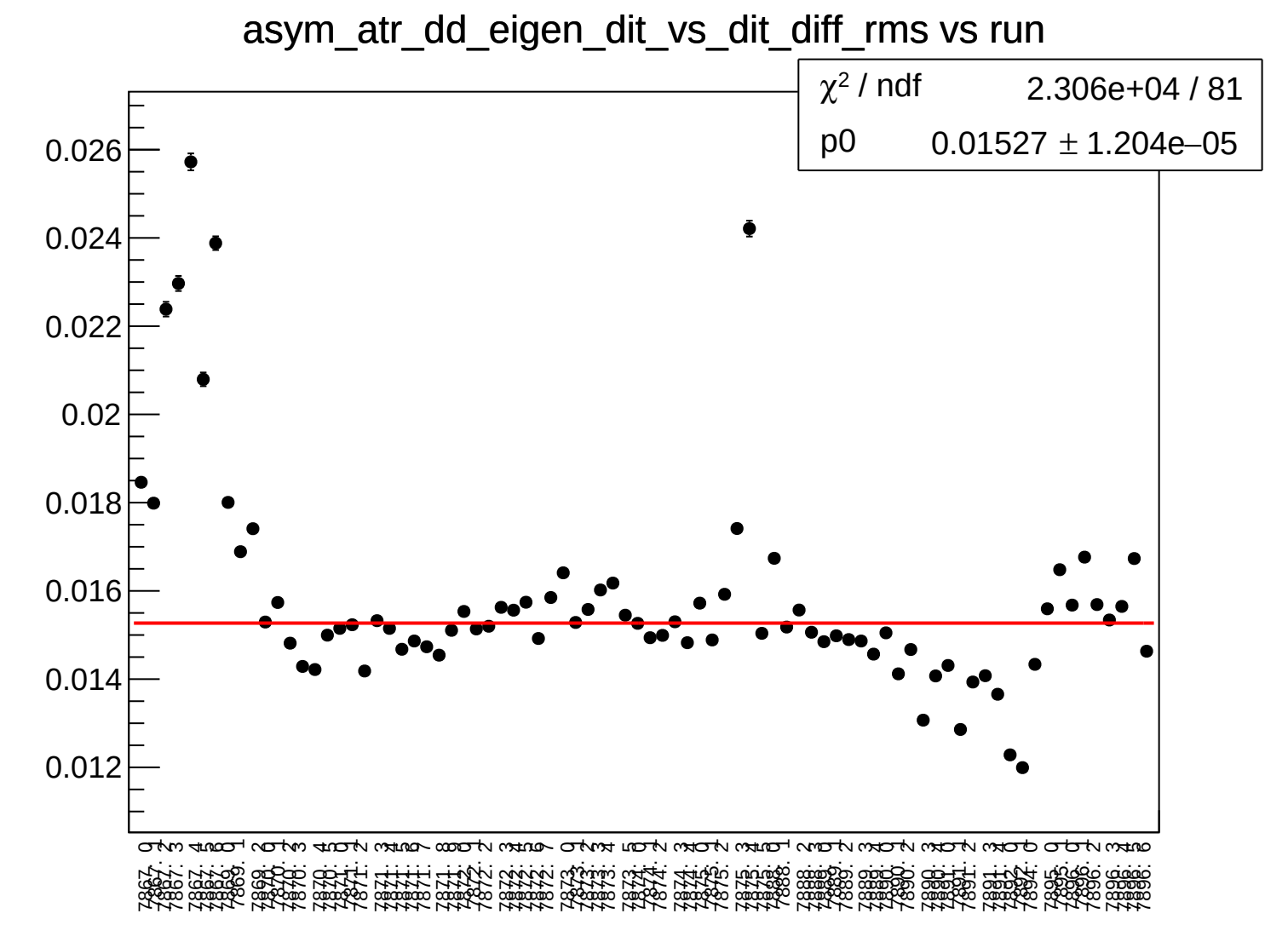

pull1D
Entries 82
Mean 0.01599
Std Dev 0.899

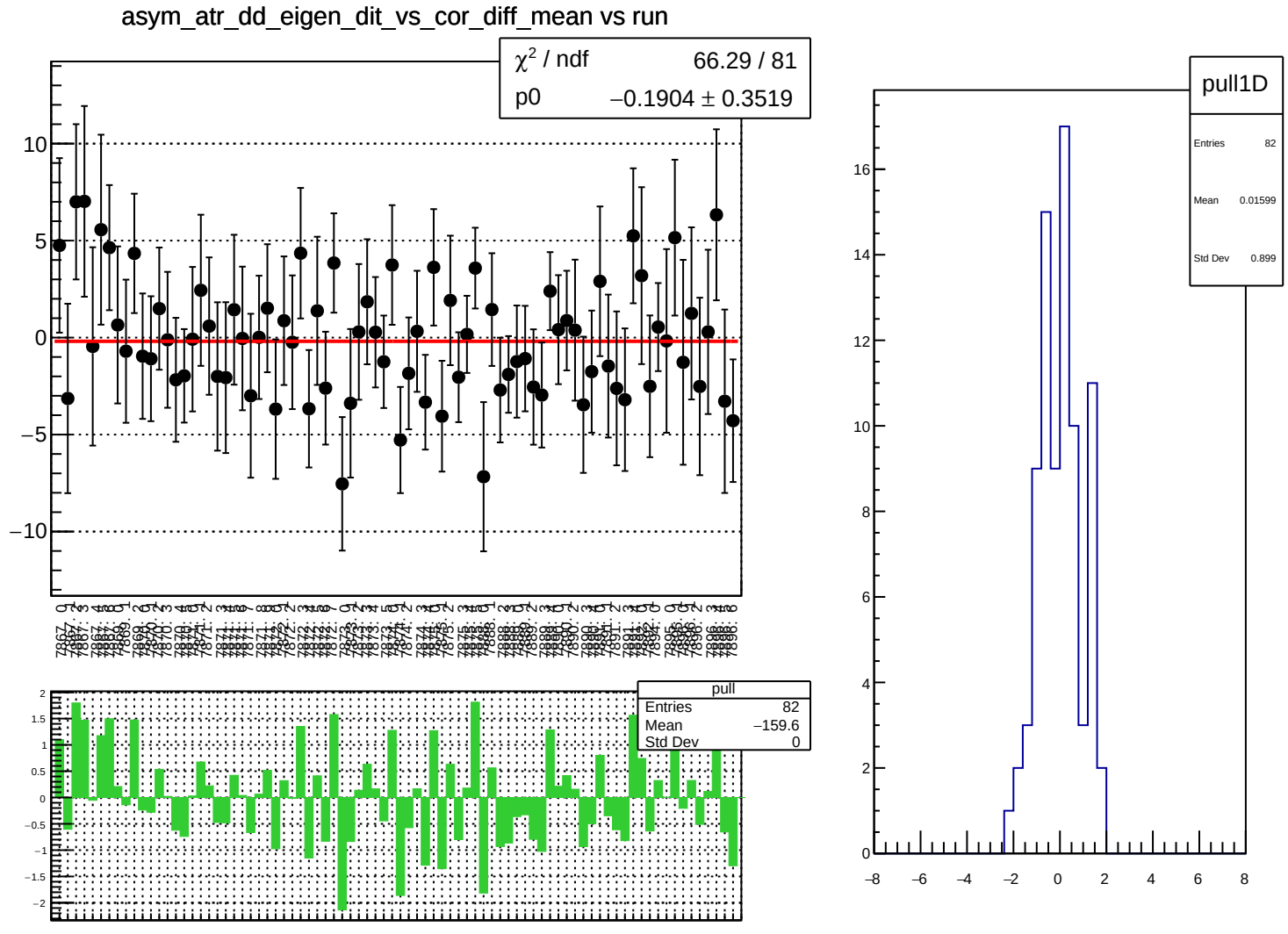

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.582e+04 / 81
p0 311.4 ± 0.2488
550
500
450
400
350
300
250
200

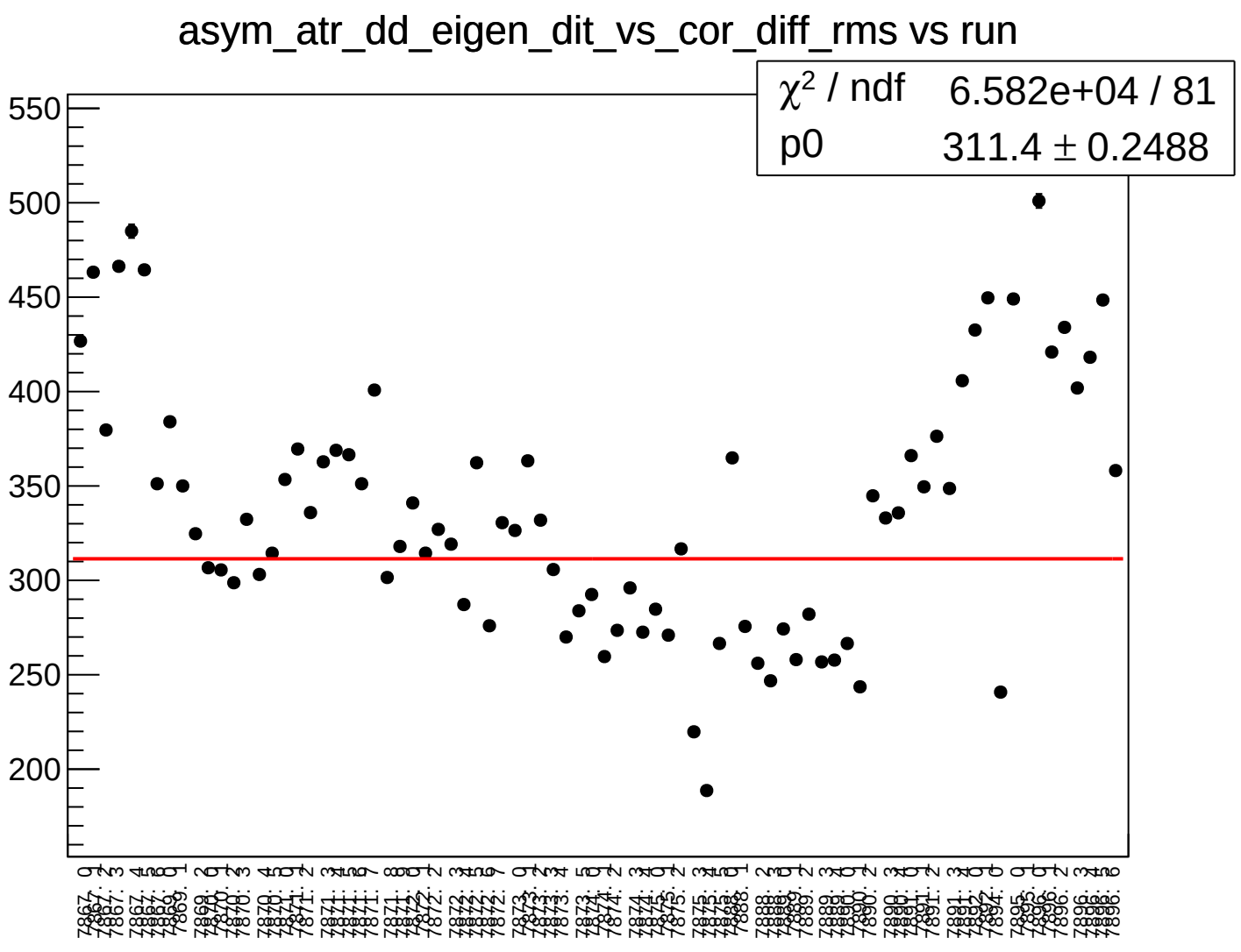

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.29 / 81
p0 −0.1904 ± 0.3519
pull
Entries 82
Mean −159.6
Std Dev 0
pull1D
Entries 82
Mean 0.01599
Std Dev 0.899

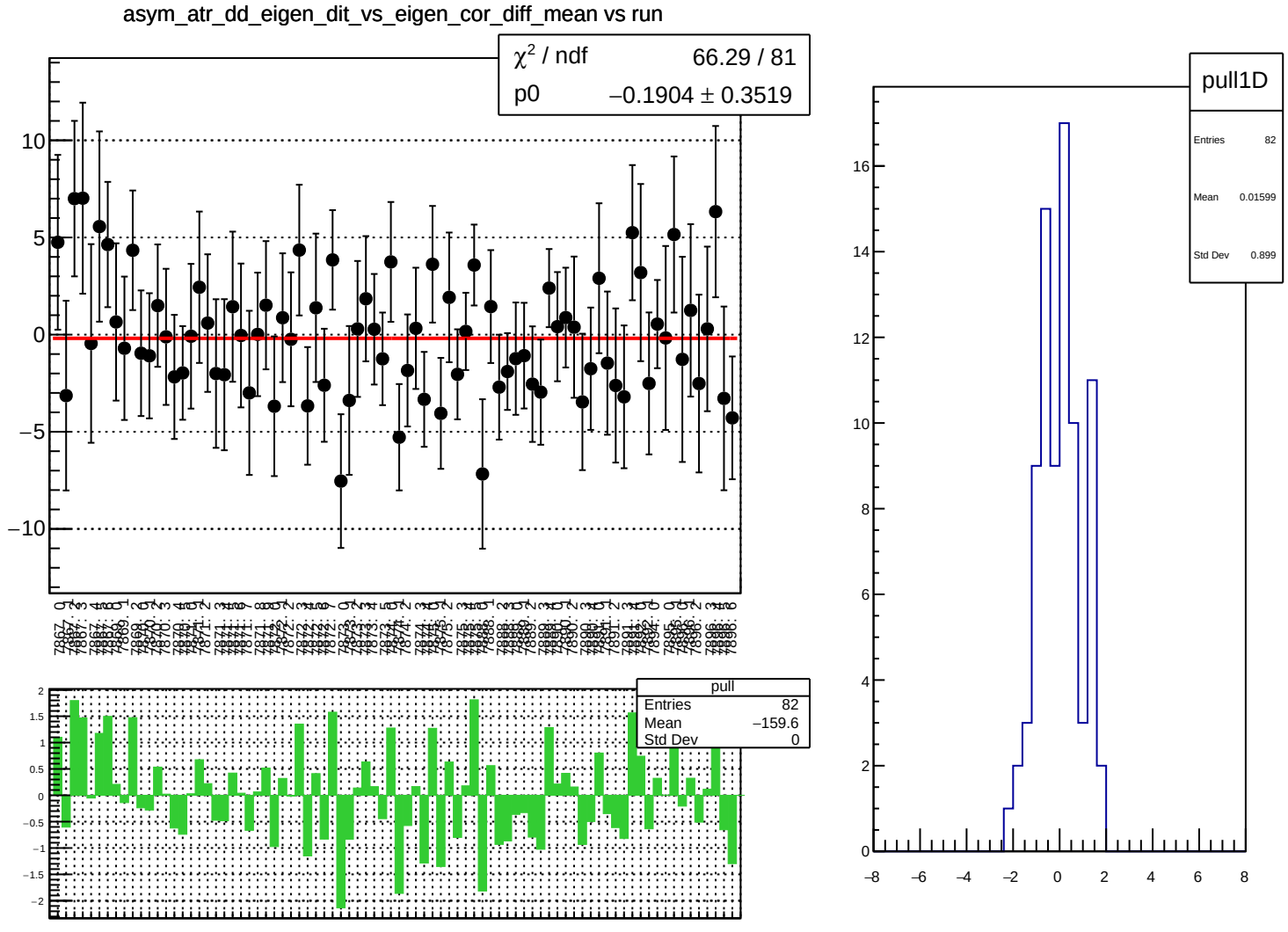

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.582e+04 / 81
p0 311.4 ± 0.2488
550
500
450
400
350
300
250
200

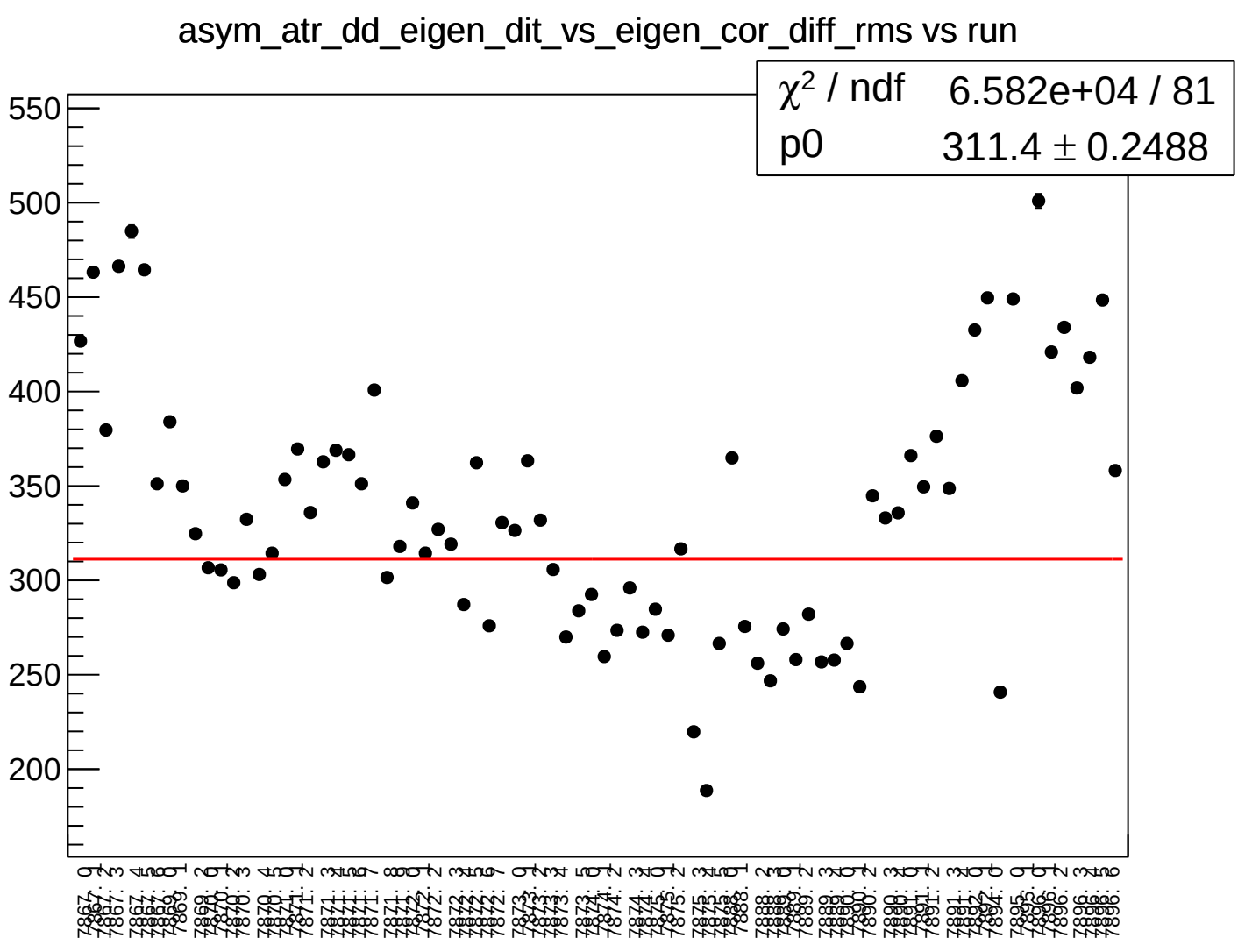

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.39 / 81
p0 −1.769e−05 ± 1.702e−05
pull
Entries 82
Mean −733.7
Std Dev 0
pull1D
Entries 82
Mean −0.004237
Std Dev 0.984

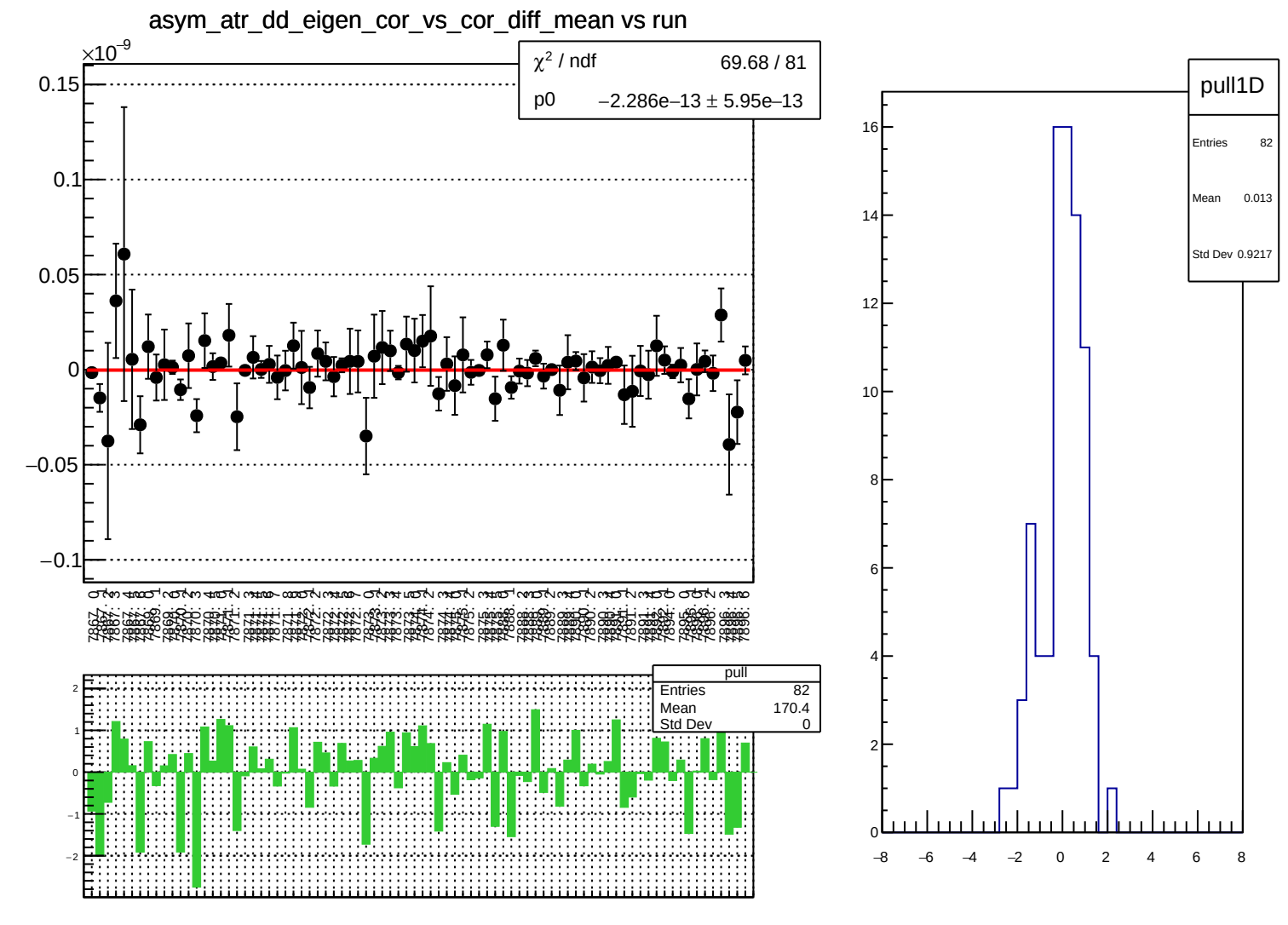

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.306e+04 / 81
p0 0.01527 ± 1.204e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

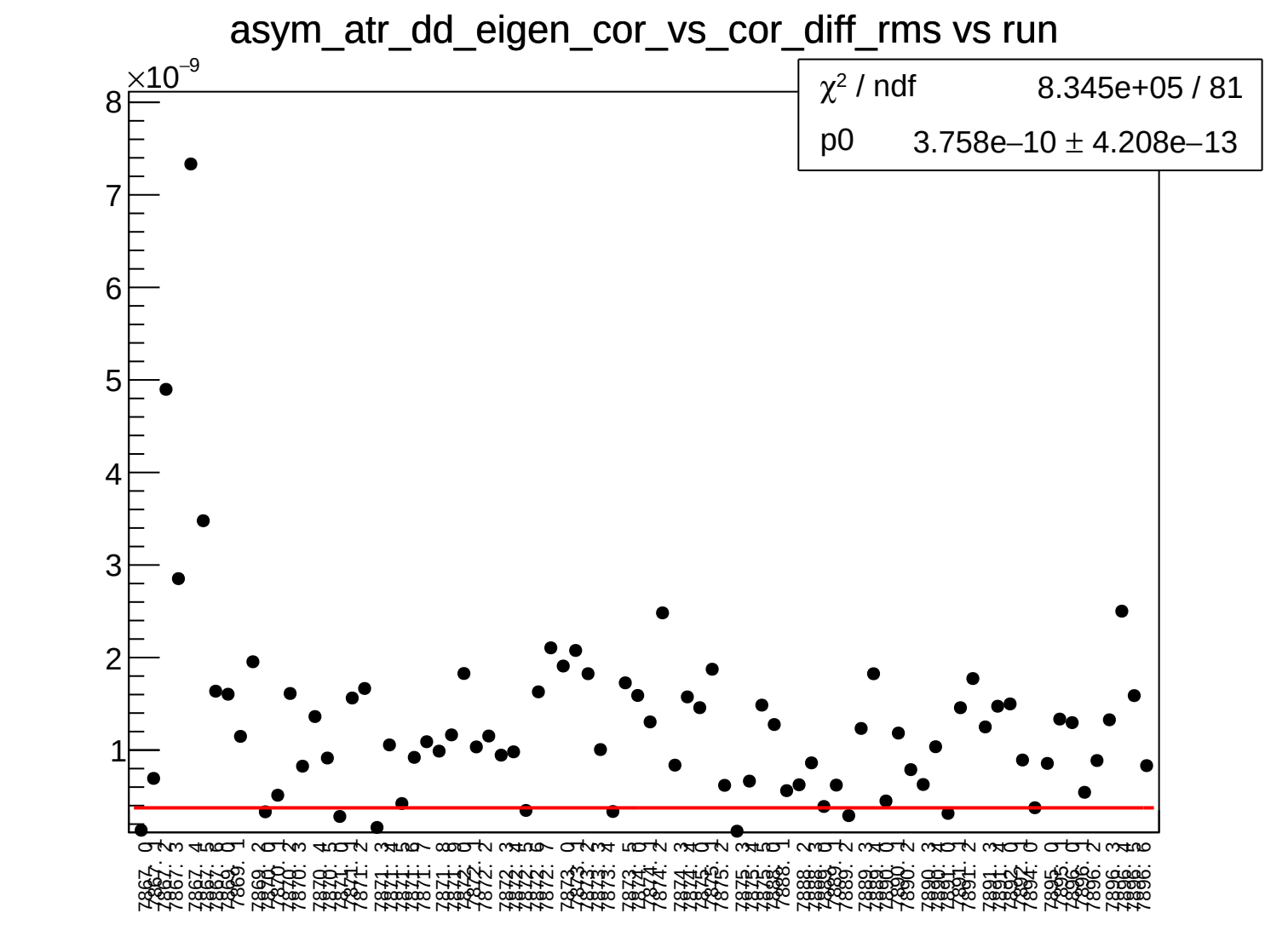

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.29 / 81
p0 −0.1904 ± 0.3519
pull
Entries 82
Mean −159.6
Std Dev 0
pull1D
Entries 82
Mean 0.01599
Std Dev 0.899

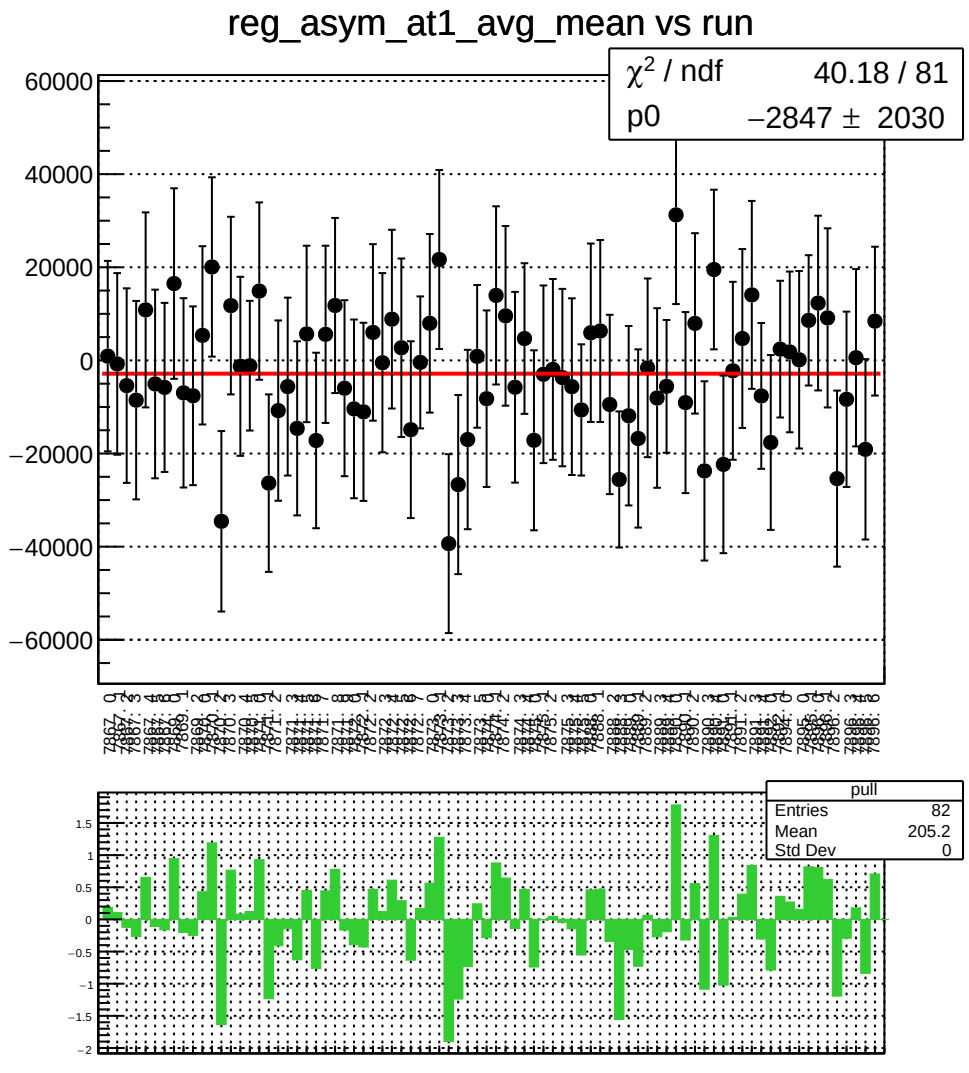

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.582e+04 / 81
p0 311.4 ± 0.2488
550
500
450
400
350
300
250
200

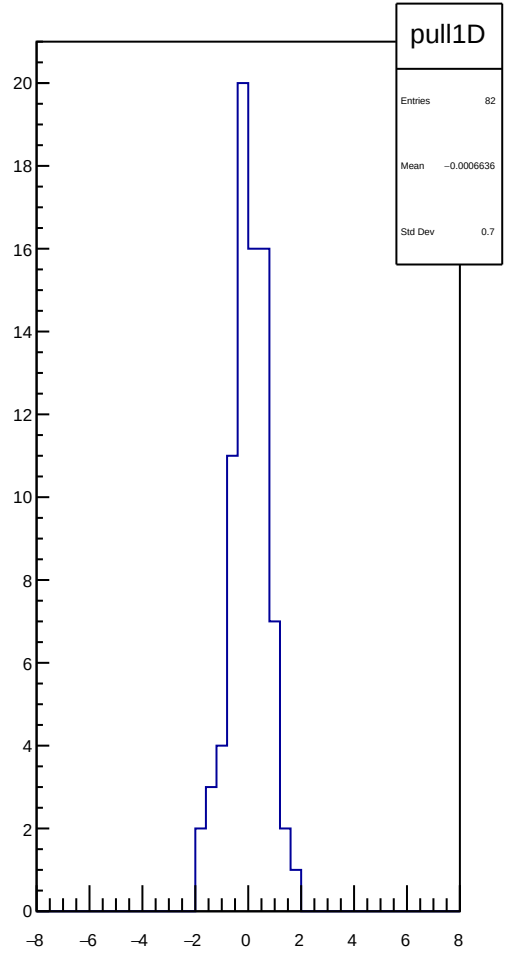

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.29 / 81
p0 −0.1904 ± 0.3519
pull
Entries 82
Mean −159.6
Std Dev 0
pull1D
Entries 82
Mean 0.01599
Std Dev 0.899

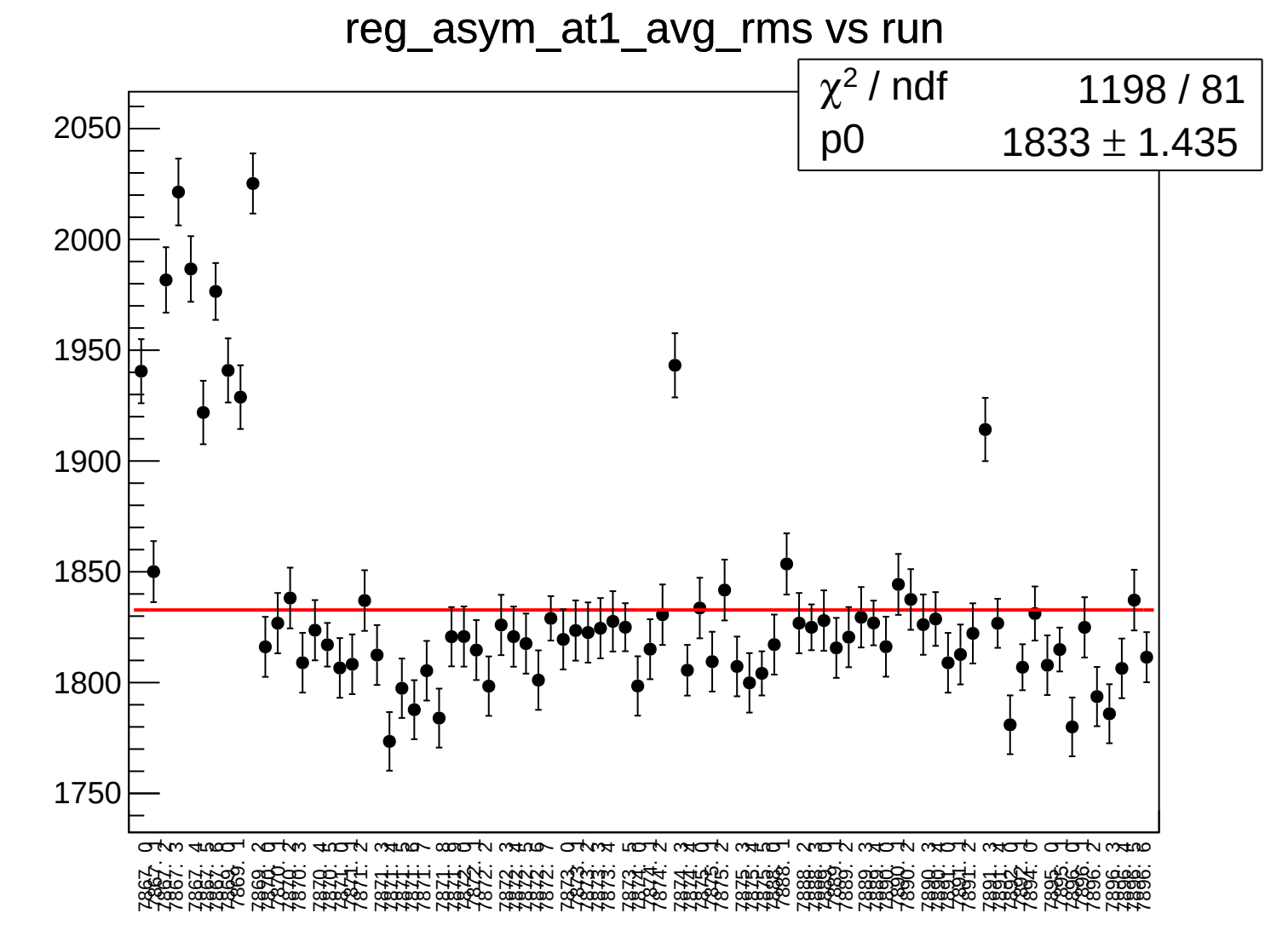

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.582e+04 / 81
p0 311.4 ± 0.2488
550
500
450
400
350
300
250
200

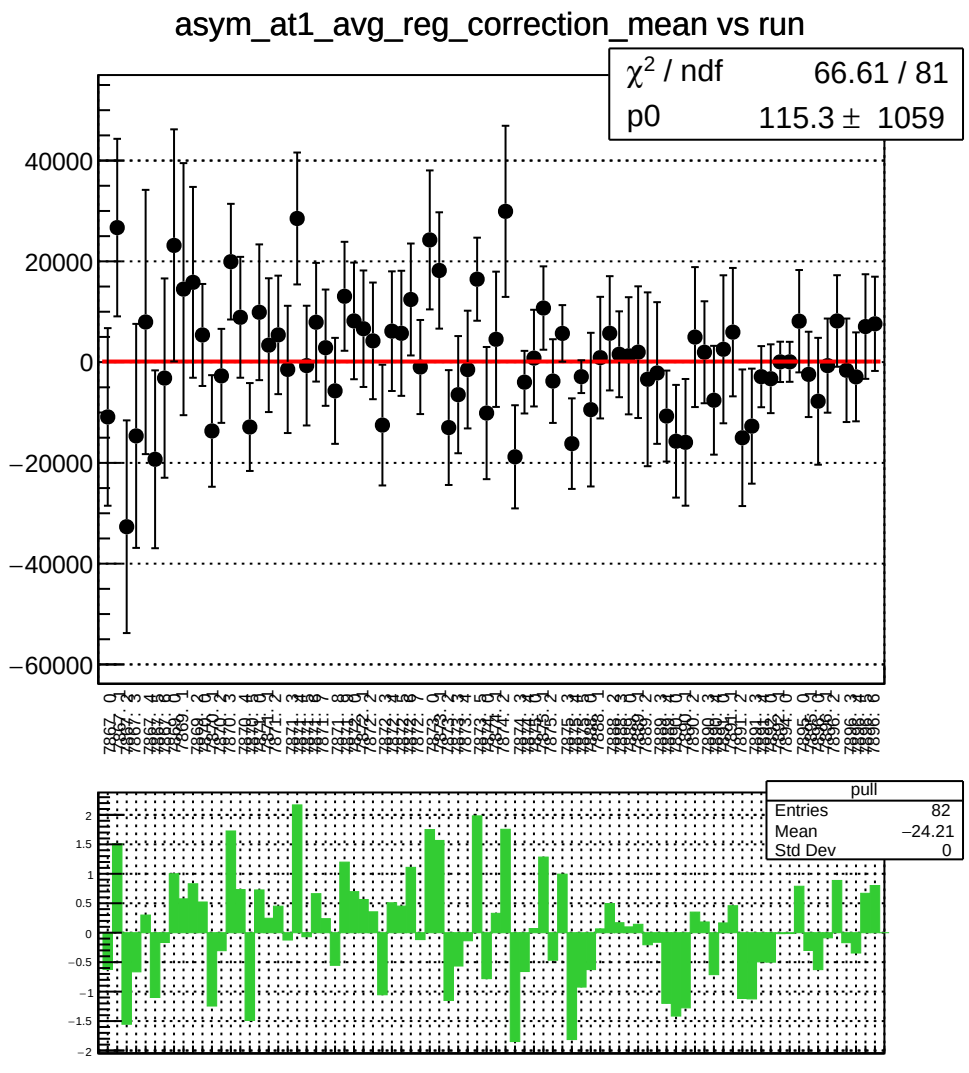

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 69.68 / 81
p0 −2.286e−13 ± 5.95e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 170.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.013
Std Dev 0.9217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

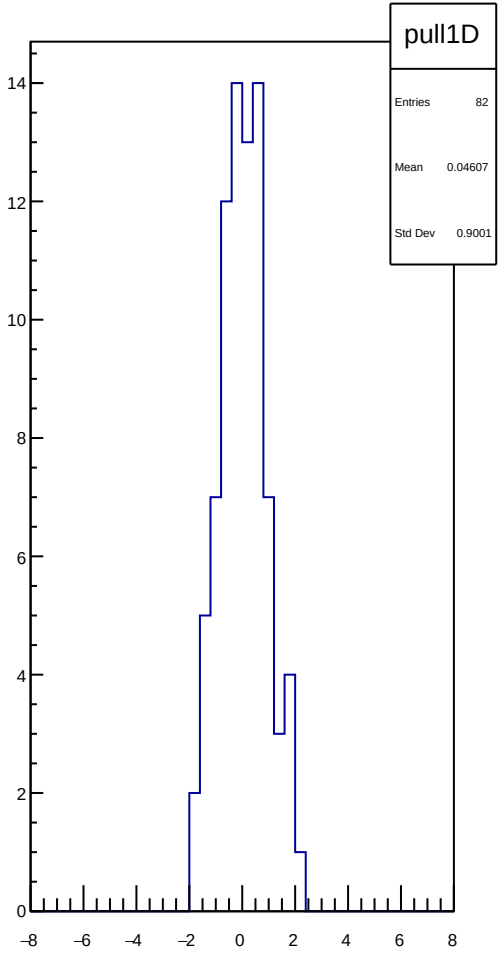

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.345e+05 / 81
p0 3.758e−10 ± 4.208e−13
8
7
6
5
4
3
2
1

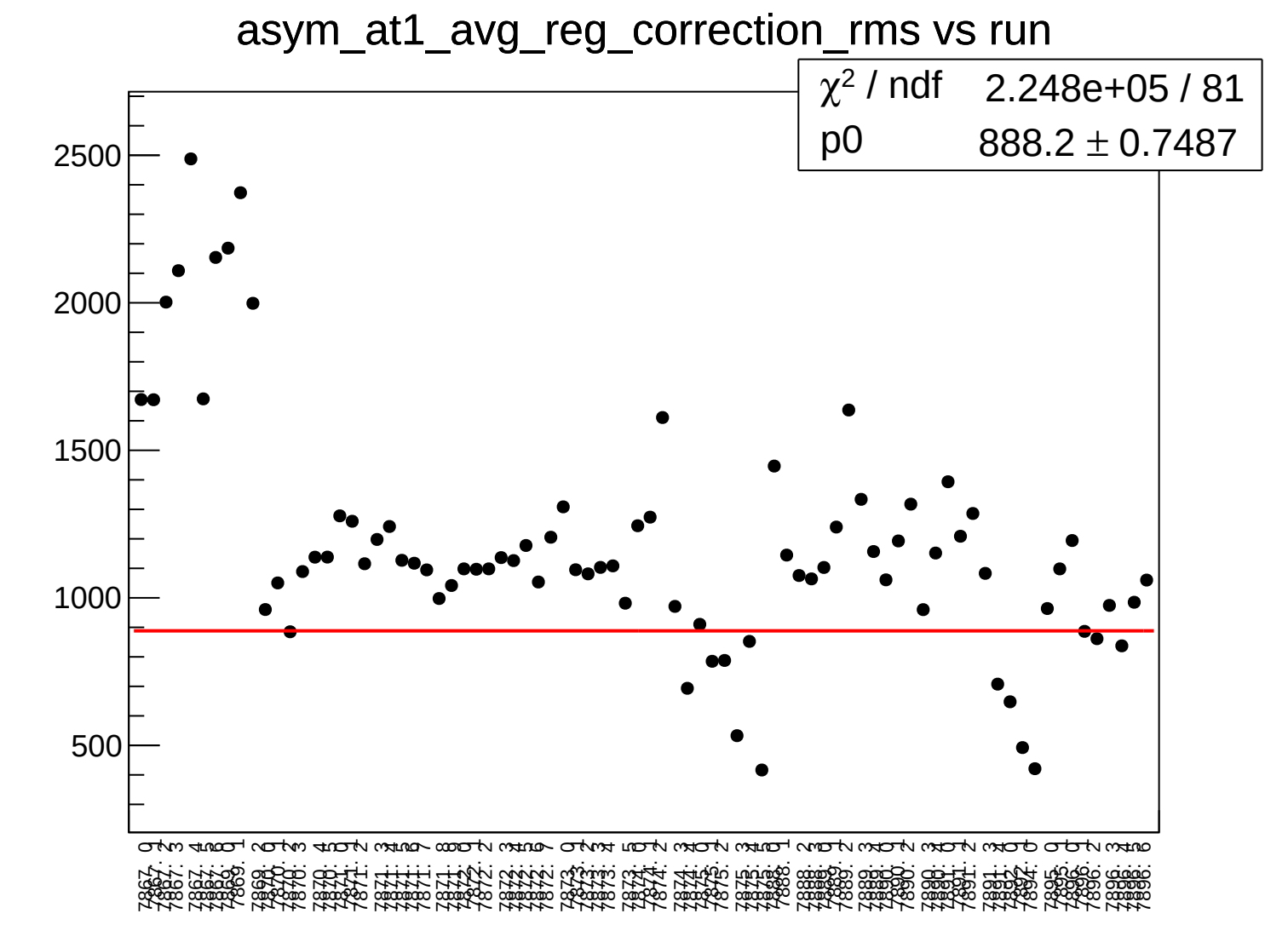

reg_asym_at1_avg_mean vs run
χ² / ndf 40.18 / 81
p0 −2847 ± 2030
pull
Entries 82
Mean 205.2
Std Dev 0

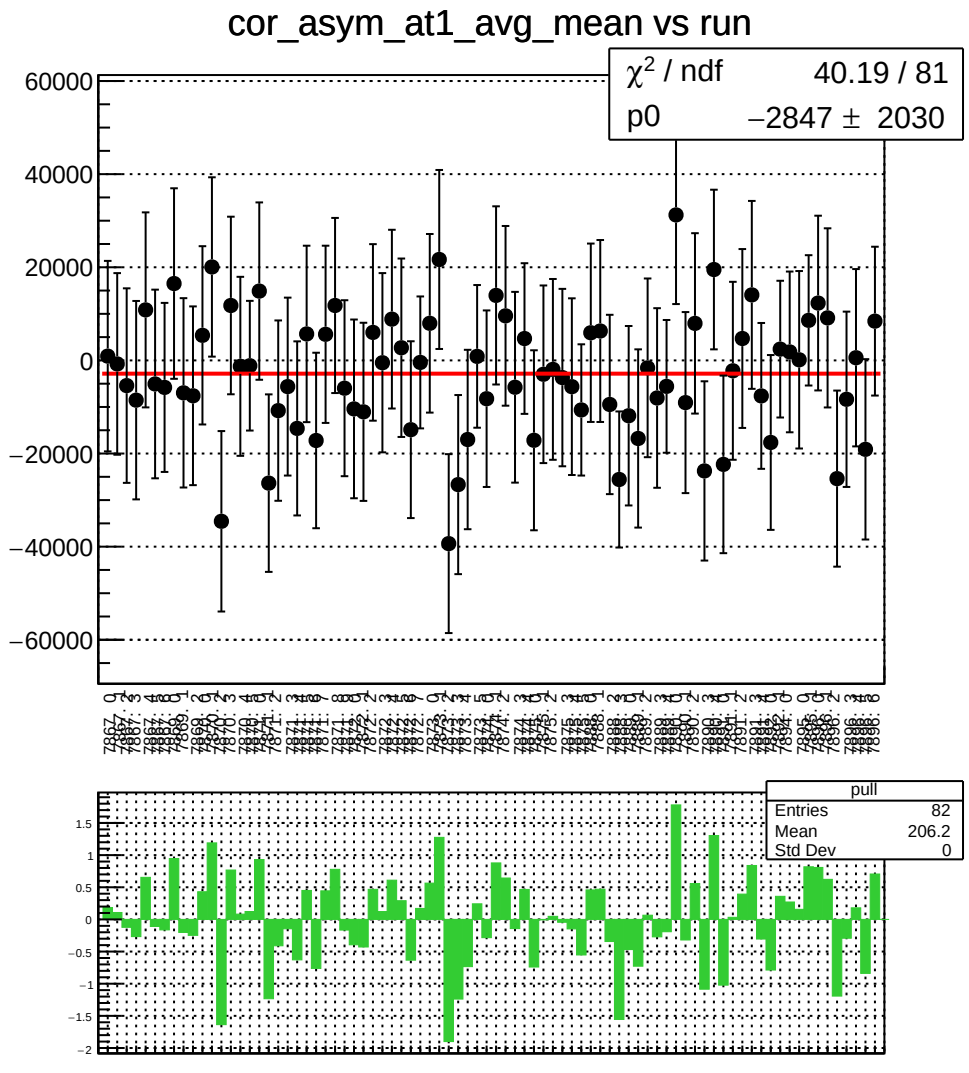

pull1D
Entries 82
Mean −0.0006636
Std Dev 0.7

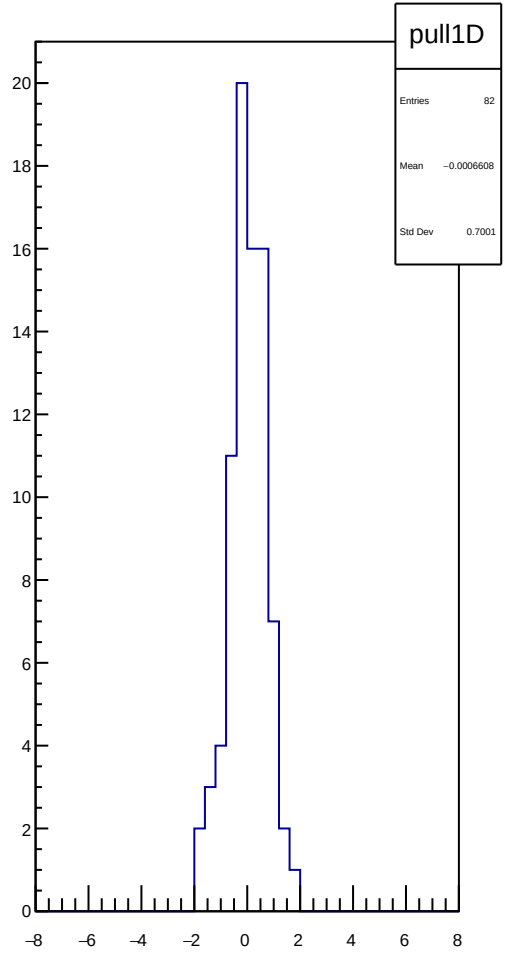

reg_asym_at1_avg_rms vs run
χ^2 / ndf 1198 / 81
p0 1833 ± 1.435
2050
2000
1950
1900
1850
1800
1750

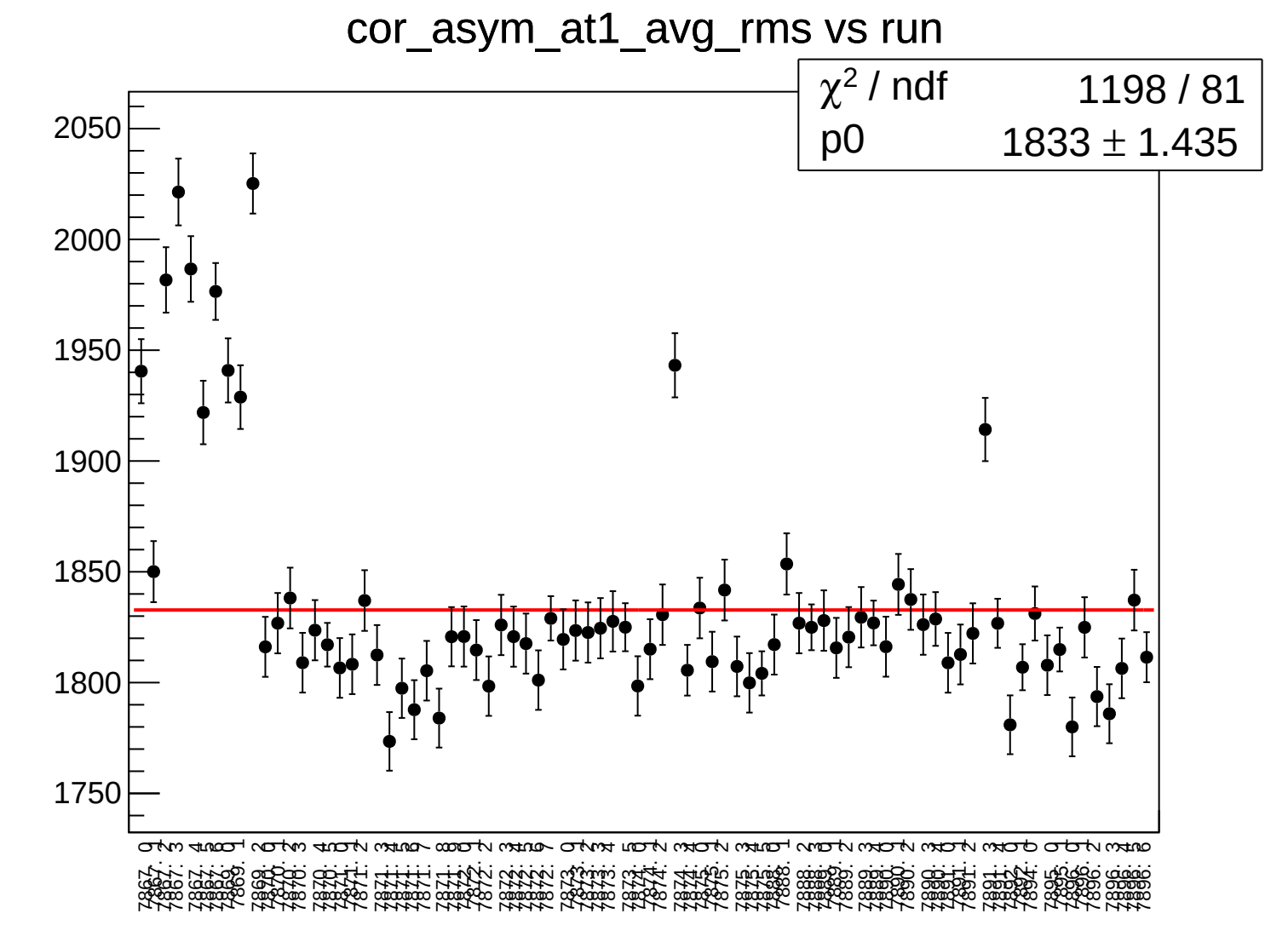

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 66.61 / 81
p0 115.3 ± 1059
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −24.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

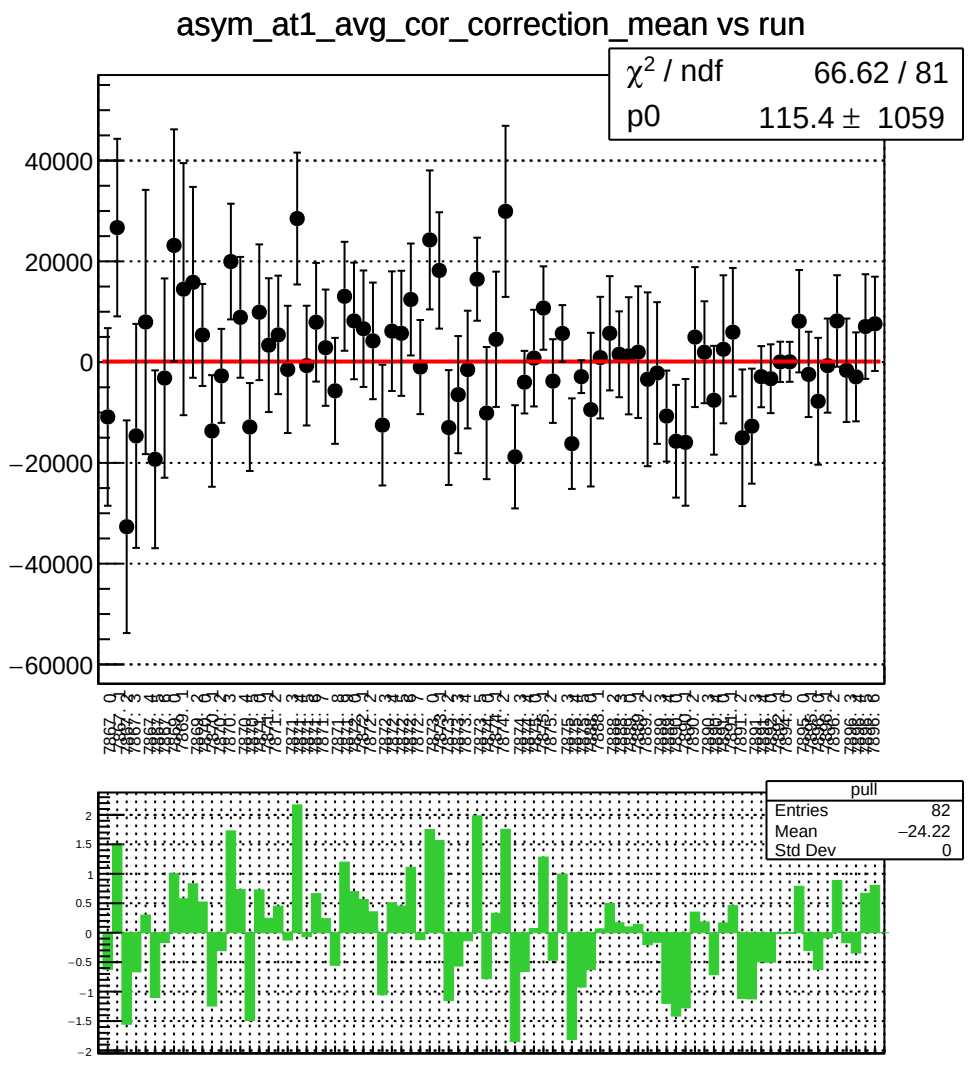

pull1D
Entries 82
Mean 0.04607
Std Dev 0.9001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

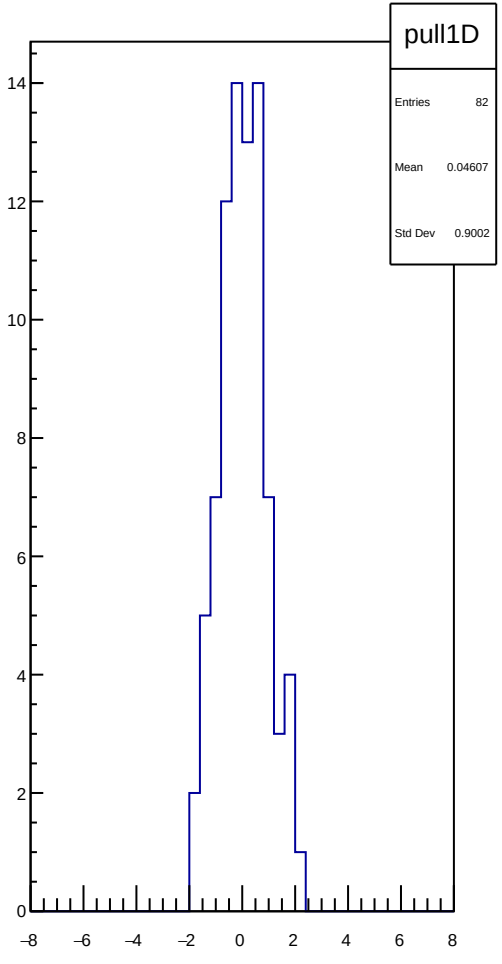

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.248e+05 / 81
p0 888.2 ± 0.7487
2500
2000
1500
1000
500

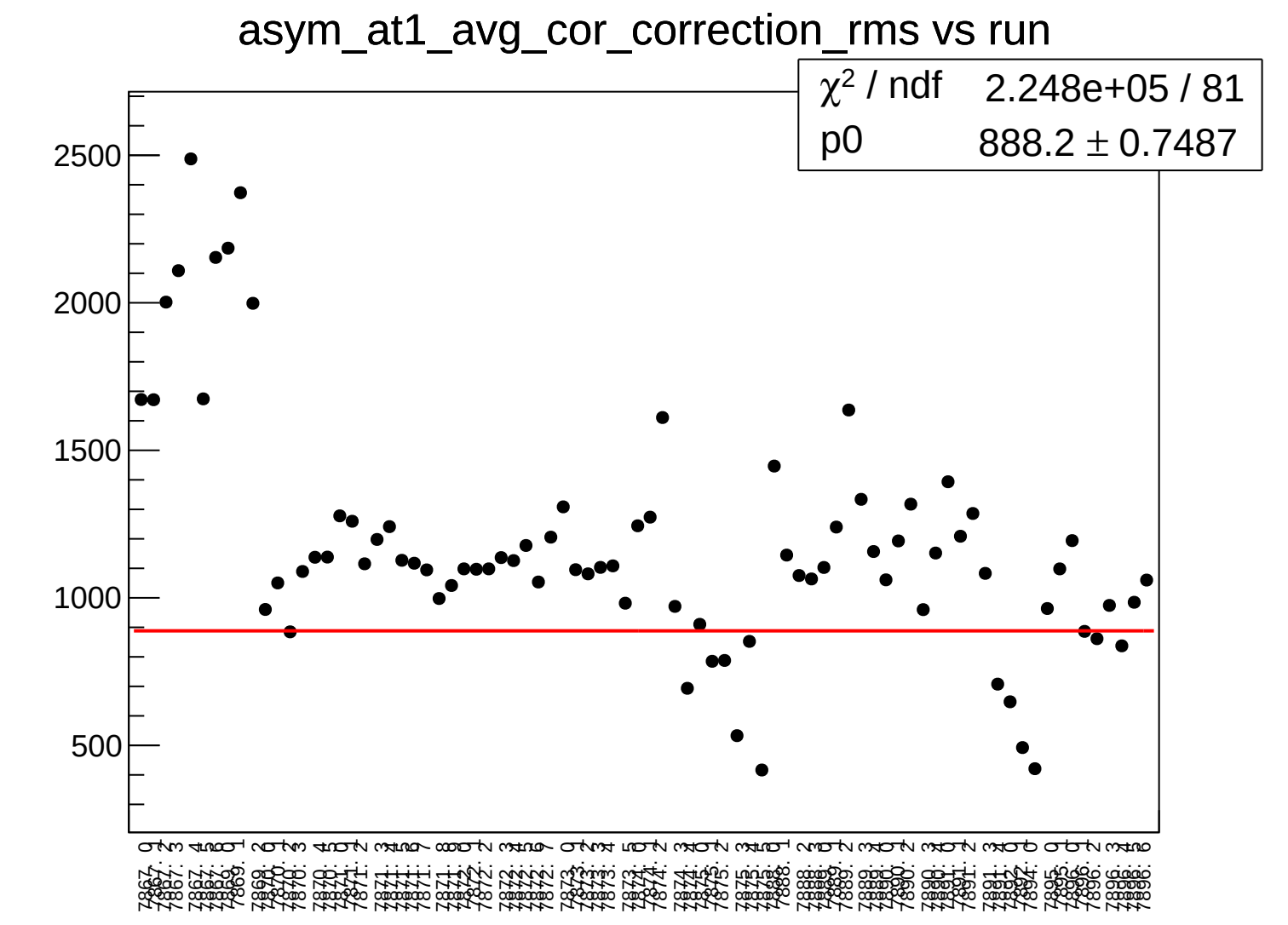

cor_asym_at1_avg_mean vs run
χ² / ndf 40.19 / 81
p0 −2847 ± 2030
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 206.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

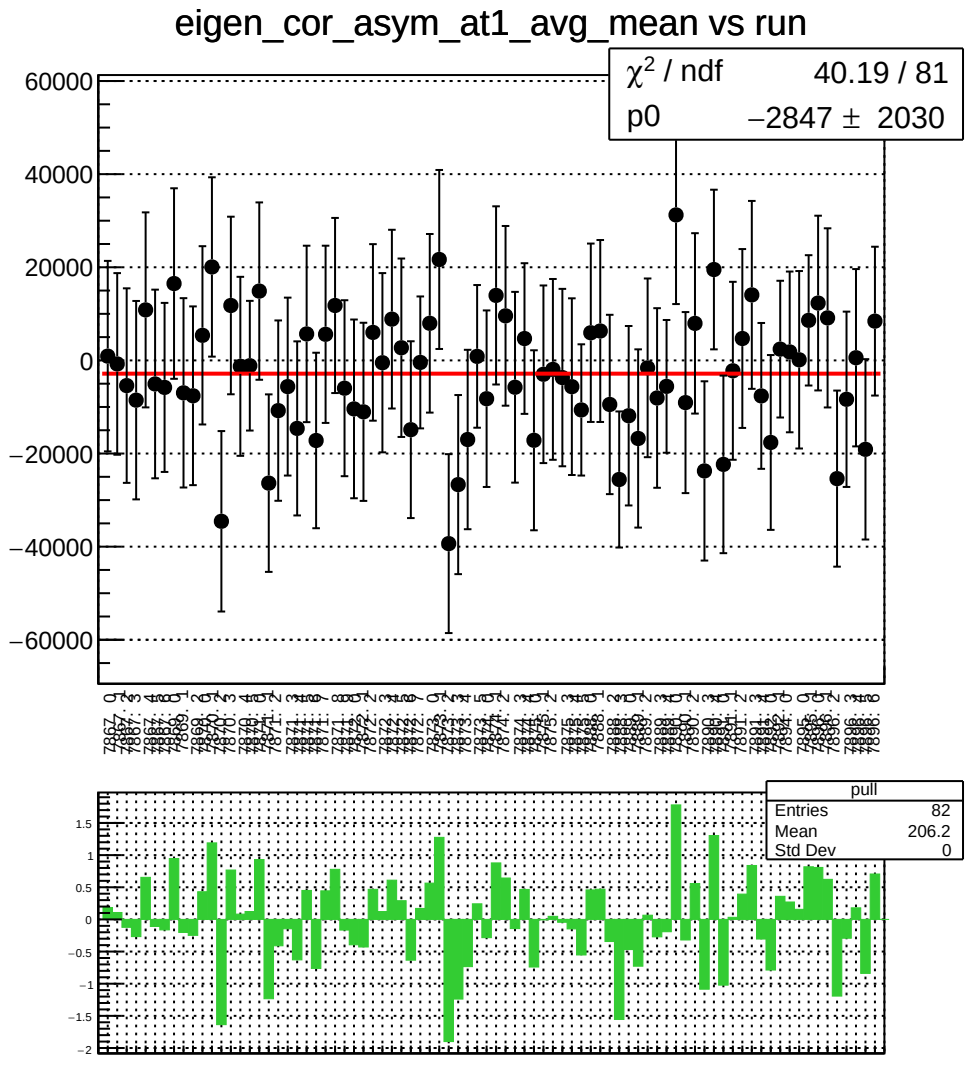

pull1D
Entries 82
Mean −0.0006608
Std Dev 0.7001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

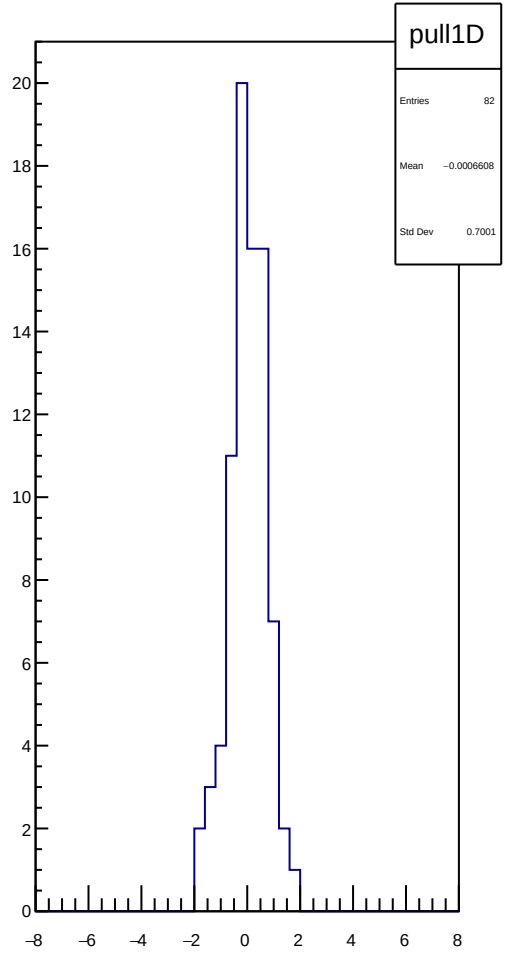

cor_asym_at1_avg_rms vs run
χ^2 / ndf 1198 / 81
p0 1833 ± 1.435
2050
2000
1950
1900
1850
1800
1750

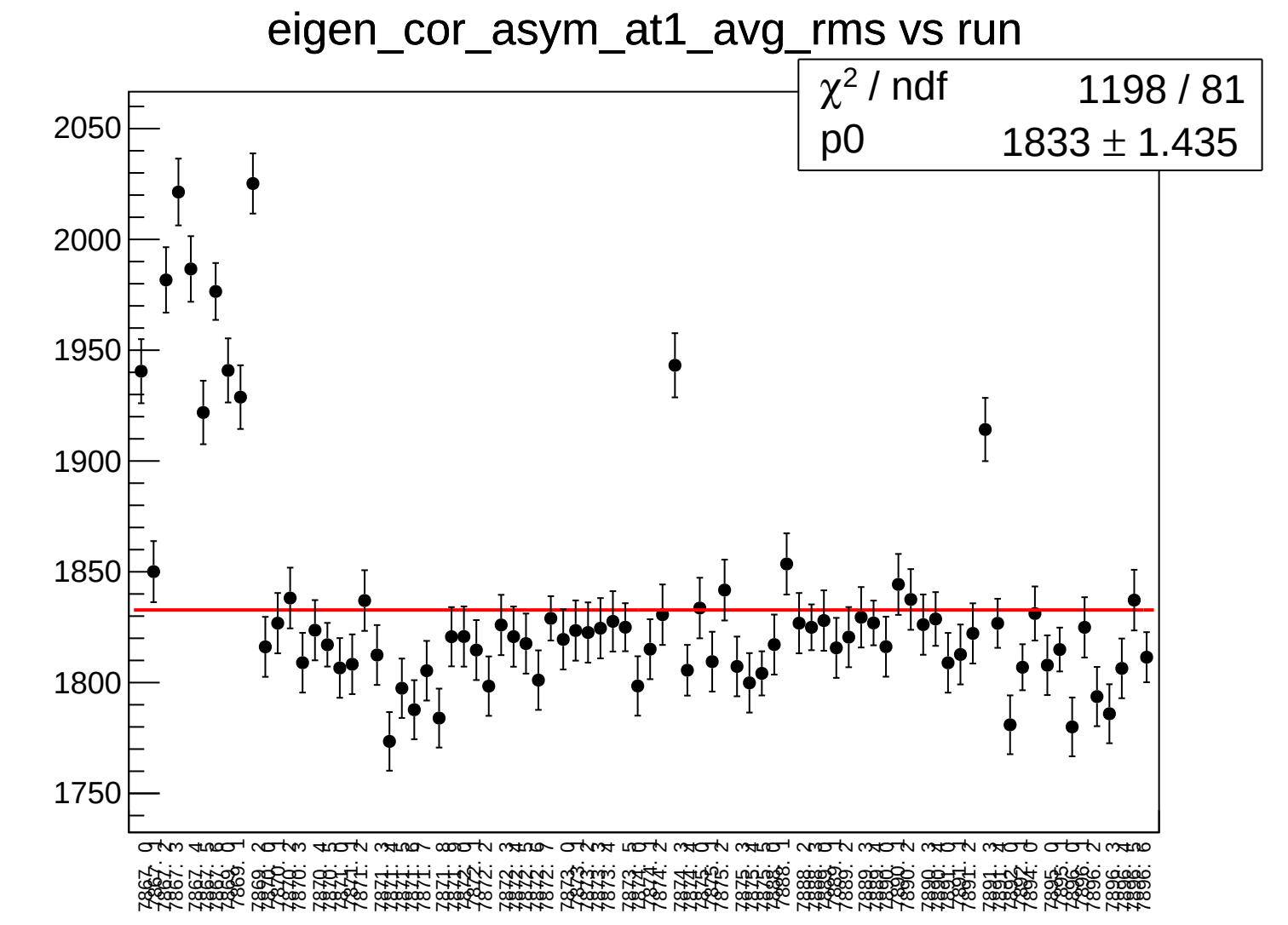

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 66.62 / 81
p0 115.4 ± 1059
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −24.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

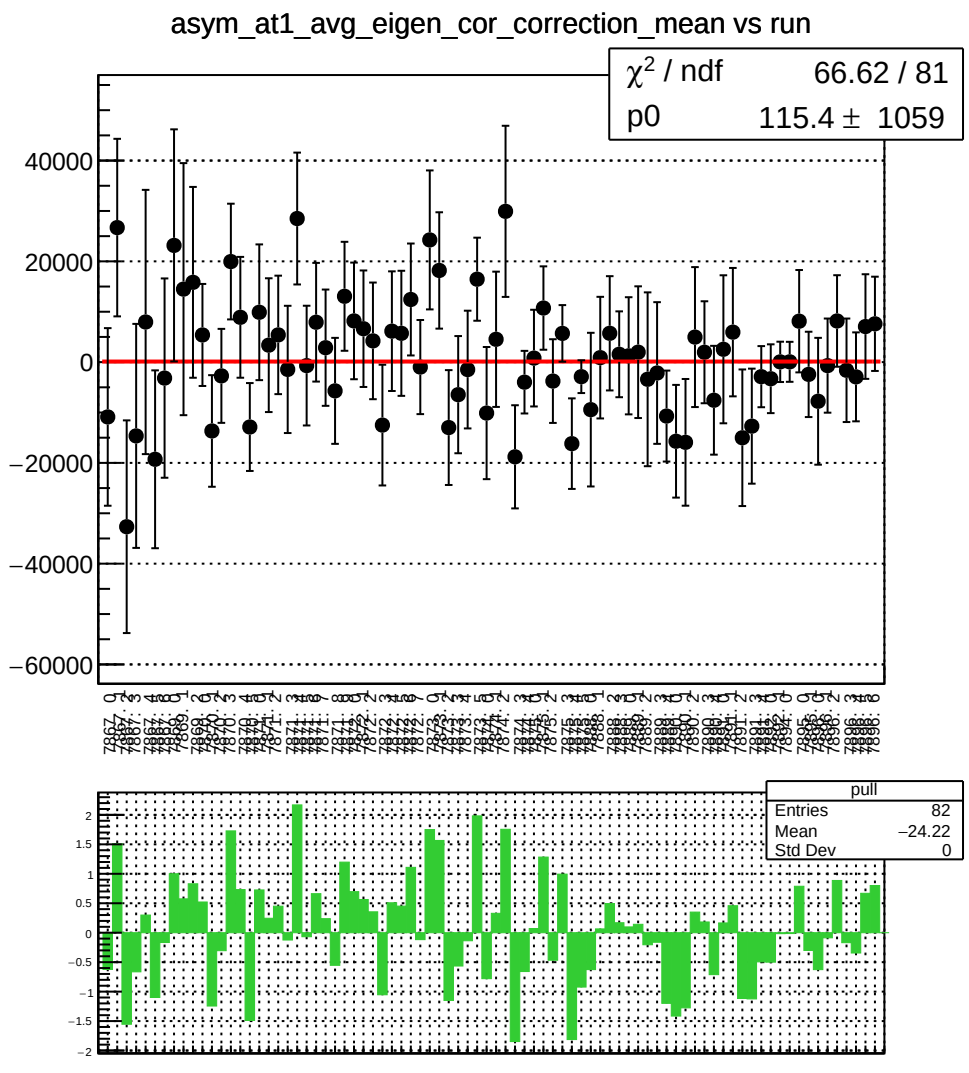

pull1D
Entries 82
Mean 0.04607
Std Dev 0.9002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

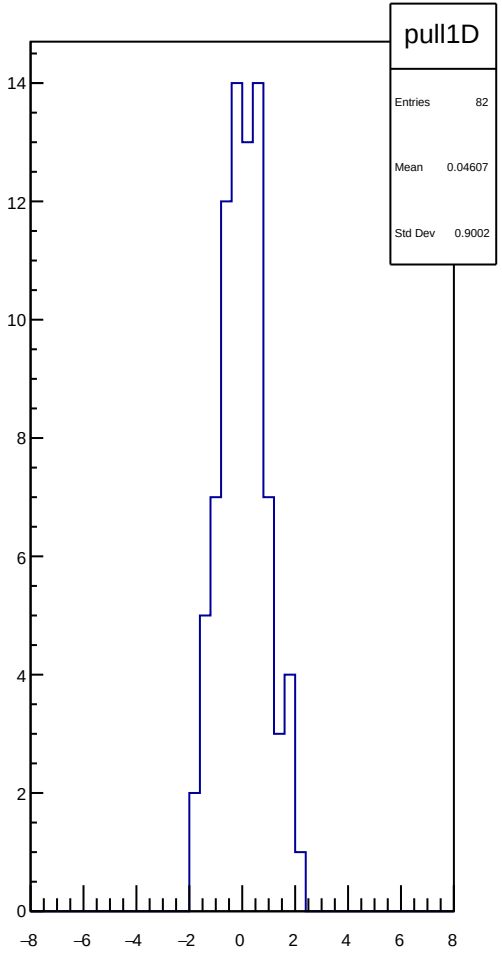

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.248e+05 / 81
p0 888.2 ± 0.7487
2500
2000
1500
1000
500

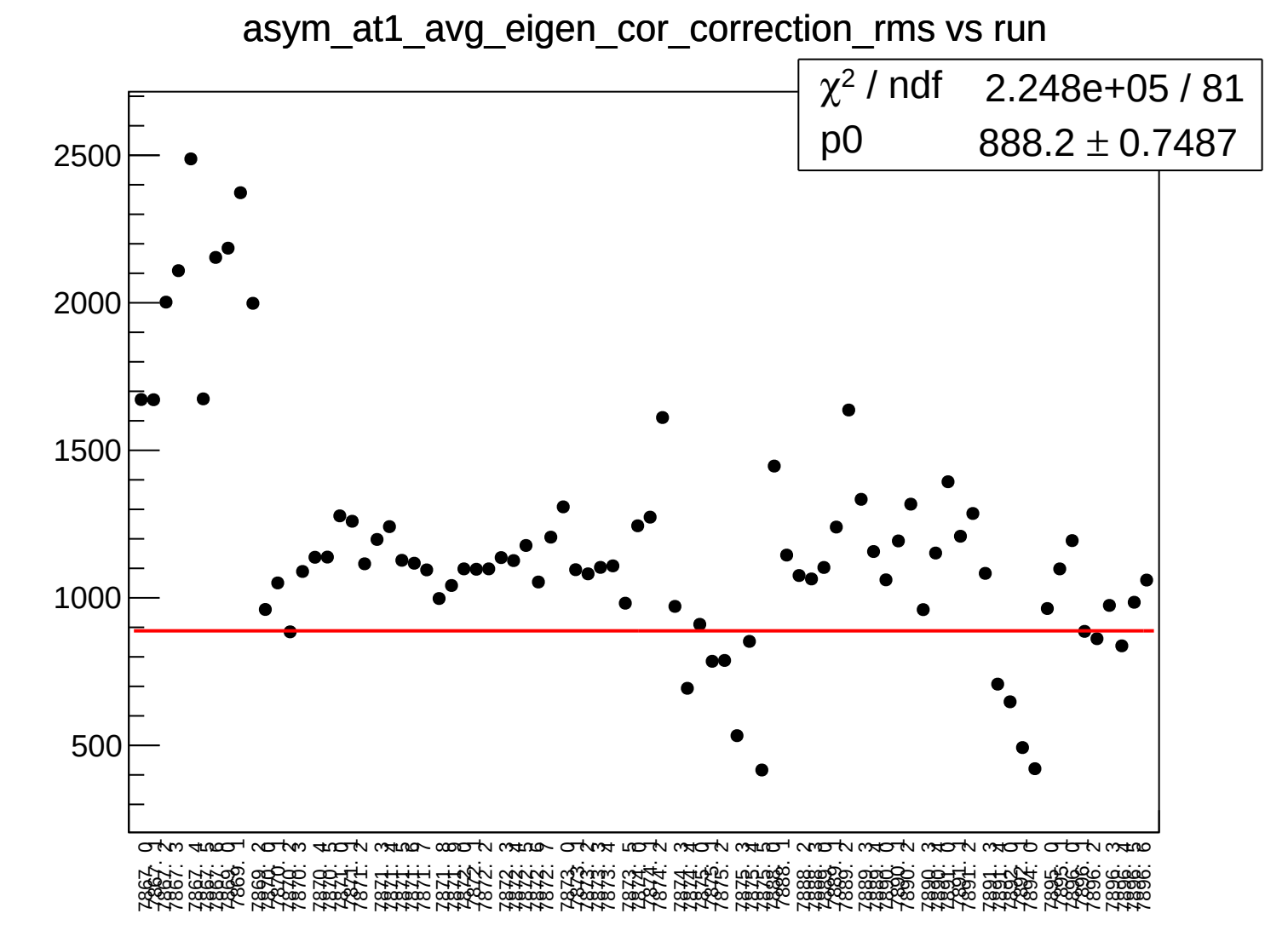

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 40.19 / 81
p0 −2847 ± 2030
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 206.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

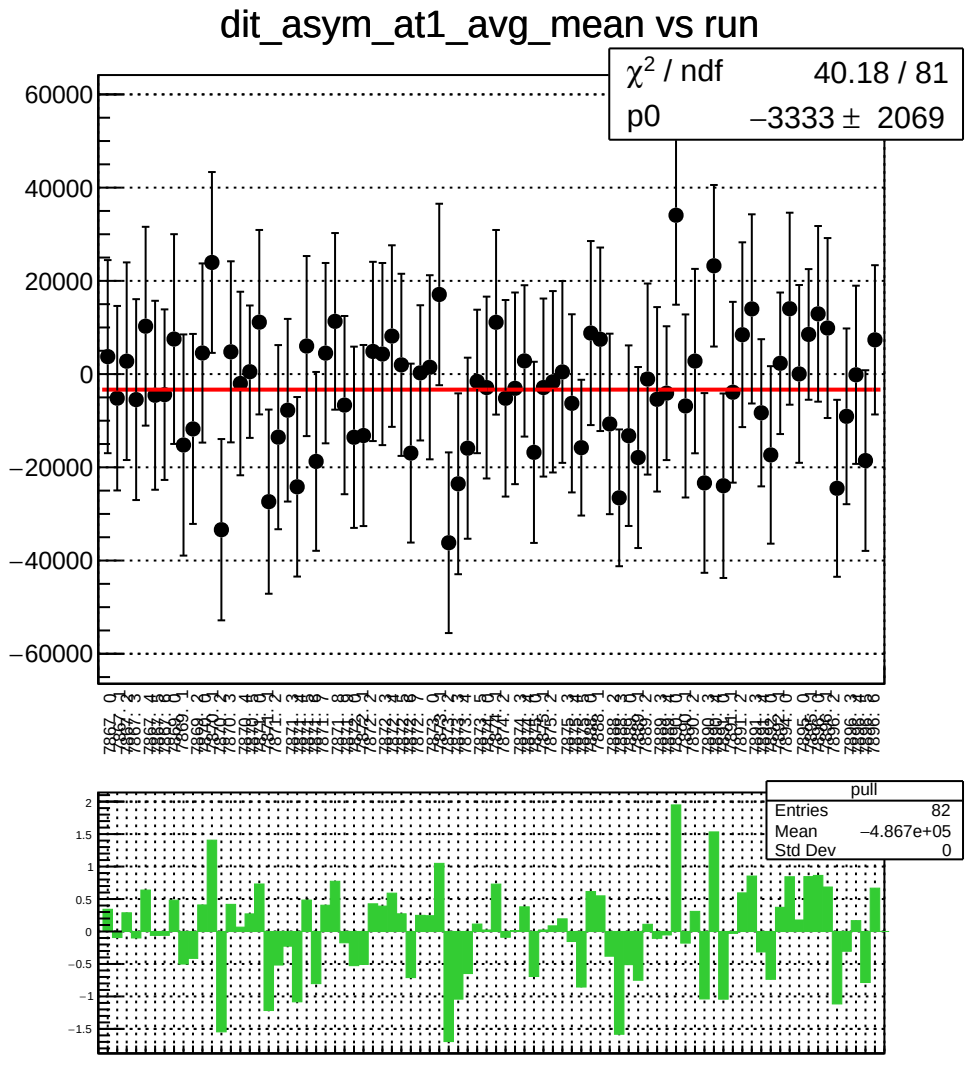

pull1D
Entries 82
Mean −0.0006608
Std Dev 0.7001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

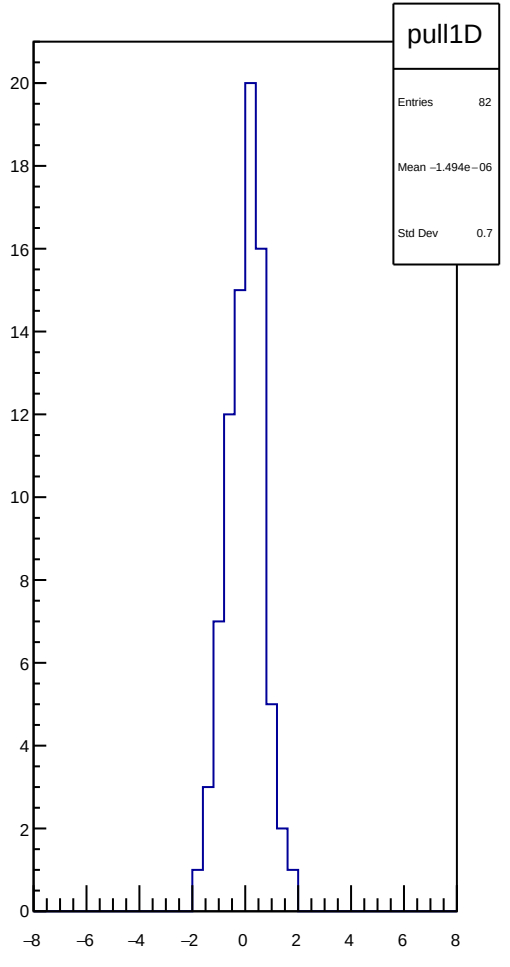

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 1198 / 81
p0 1833 ± 1.435
2050
2000
1950
1900
1850
1800
1750

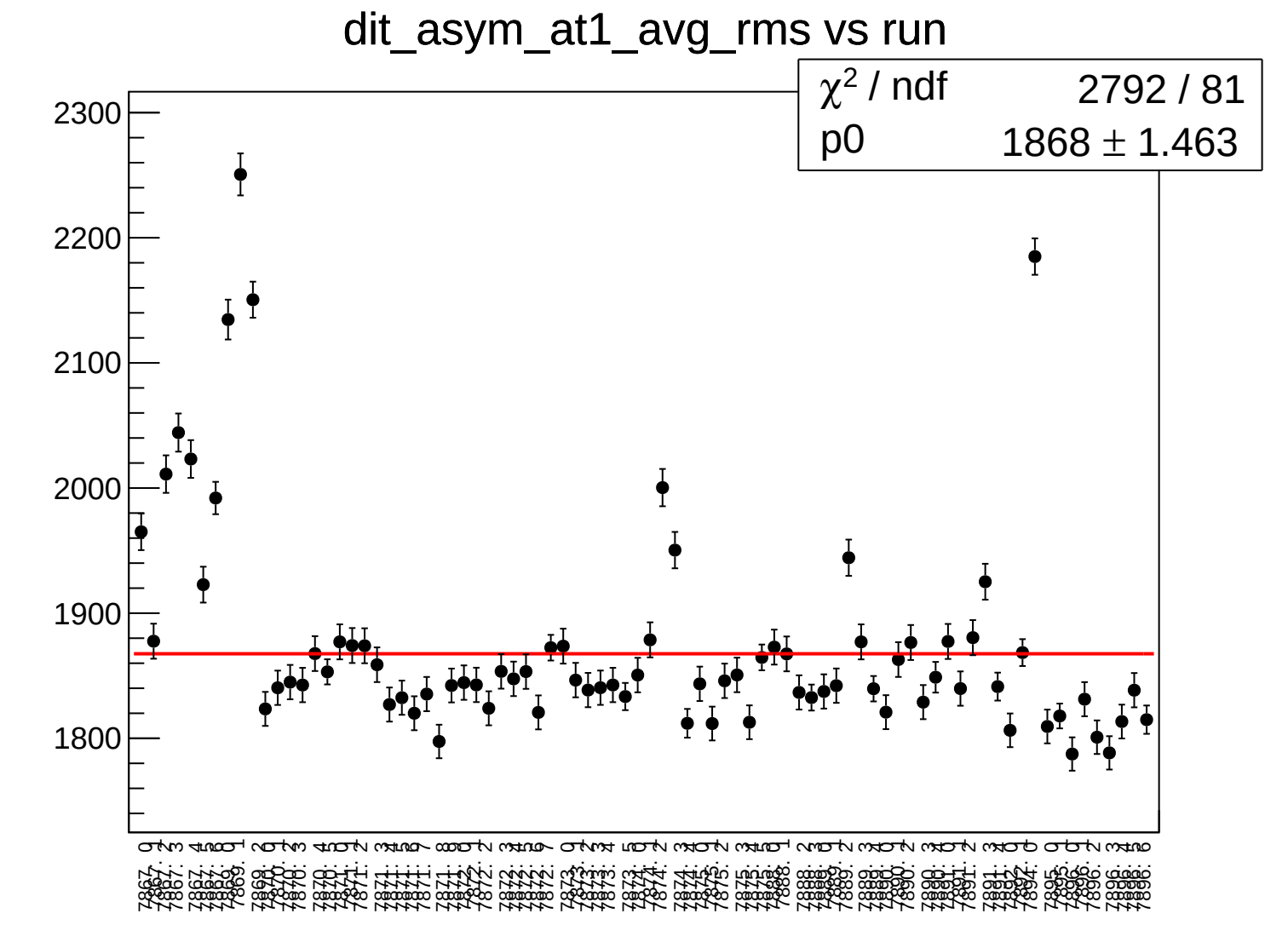

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.62 / 81
p0 115.4 ± 1059
pull
Entries 82
Mean −24.22
Std Dev 0

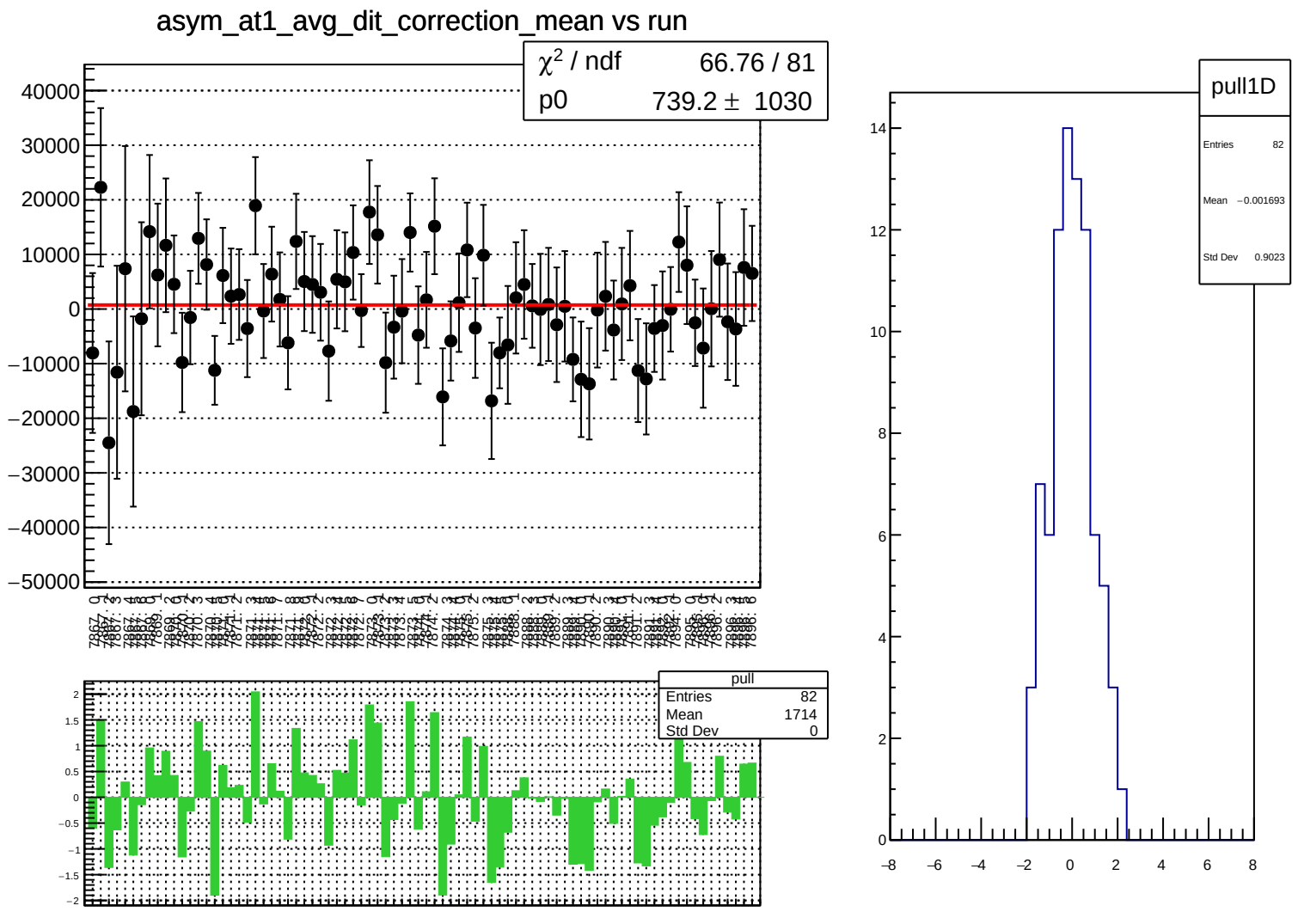

pull1D
Entries 82
Mean 0.04607
Std Dev 0.9002

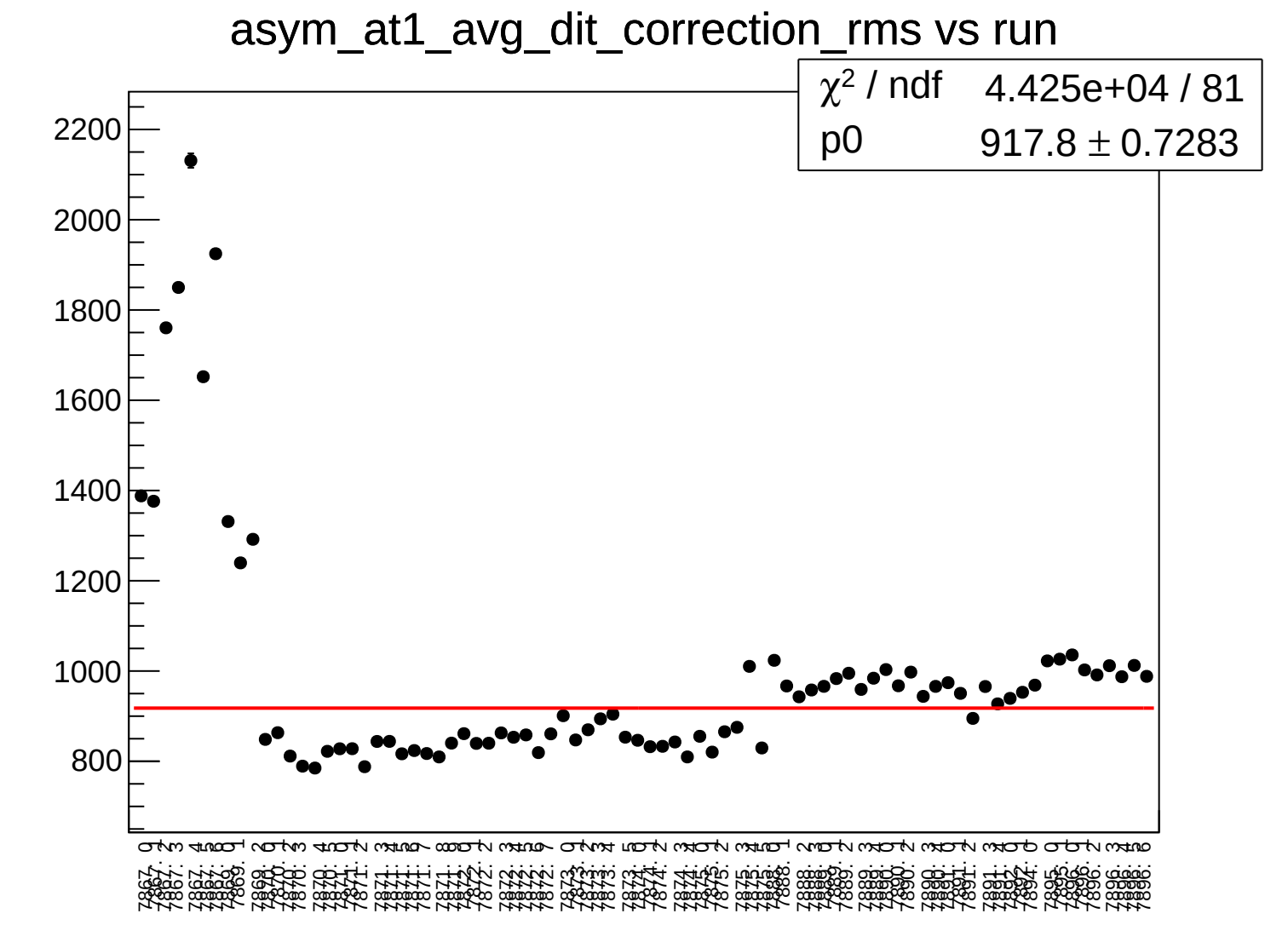

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.248e+05 / 81
p0 888.2 ± 0.7487
2500
2000
1500
1000
500

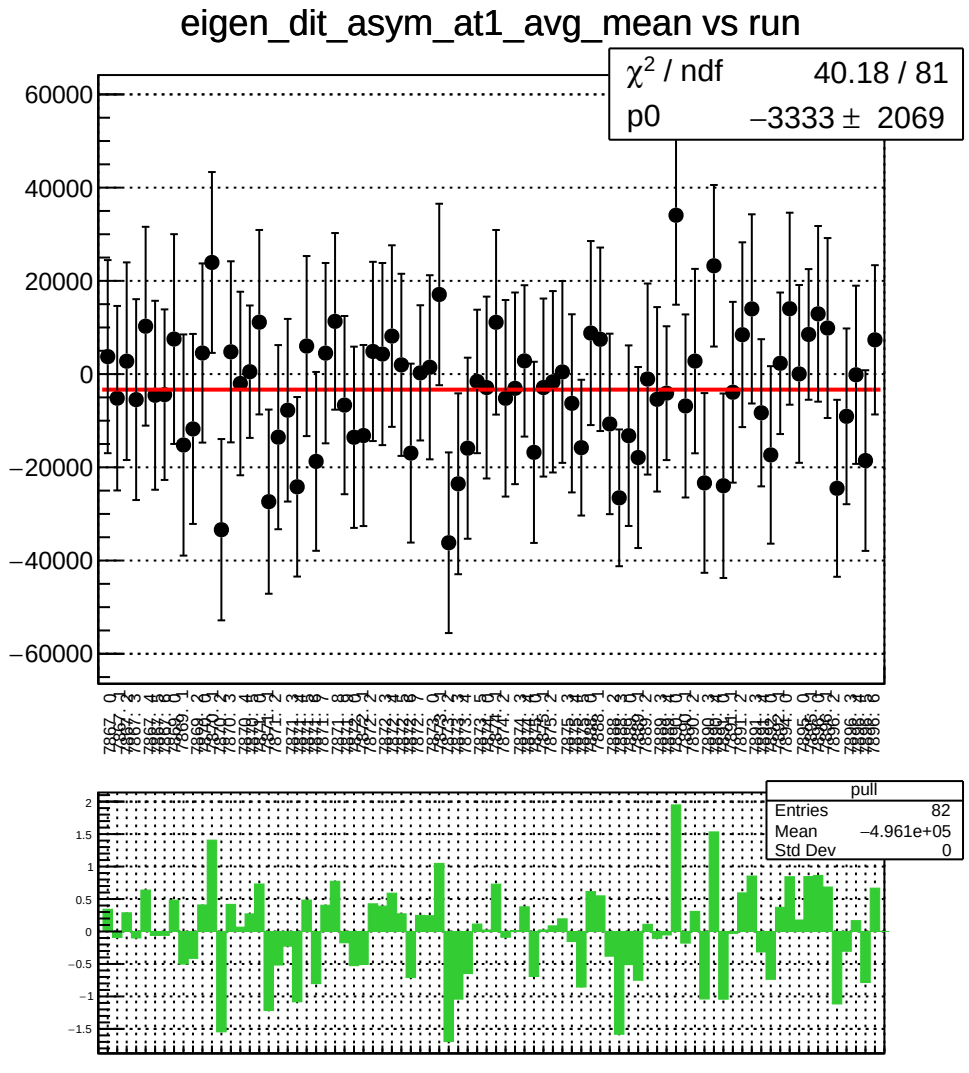

dit_asym_at1_avg_mean vs run
χ² / ndf 40.18 / 81
p0 −3333 ± 2069
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −4.867e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

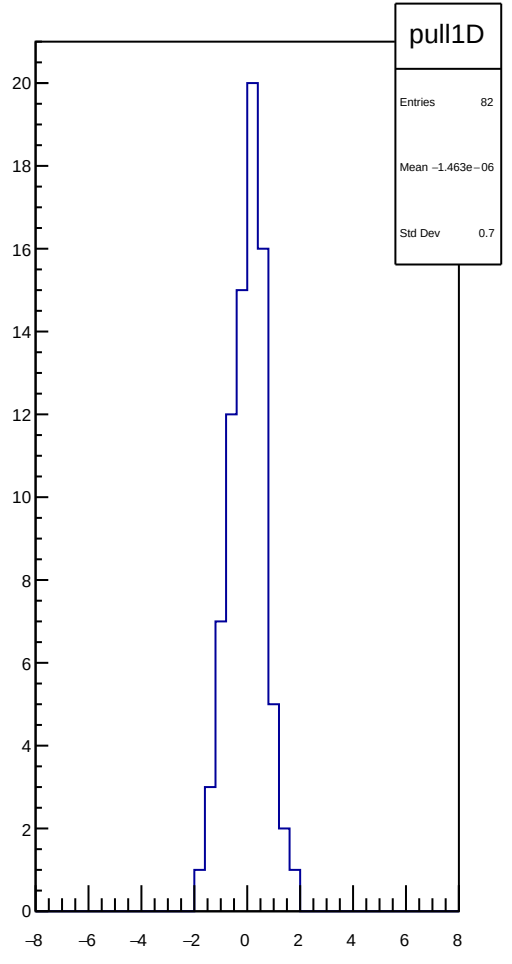

pull1D
Entries 82
Mean −1.494e−06
Std Dev 0.7
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

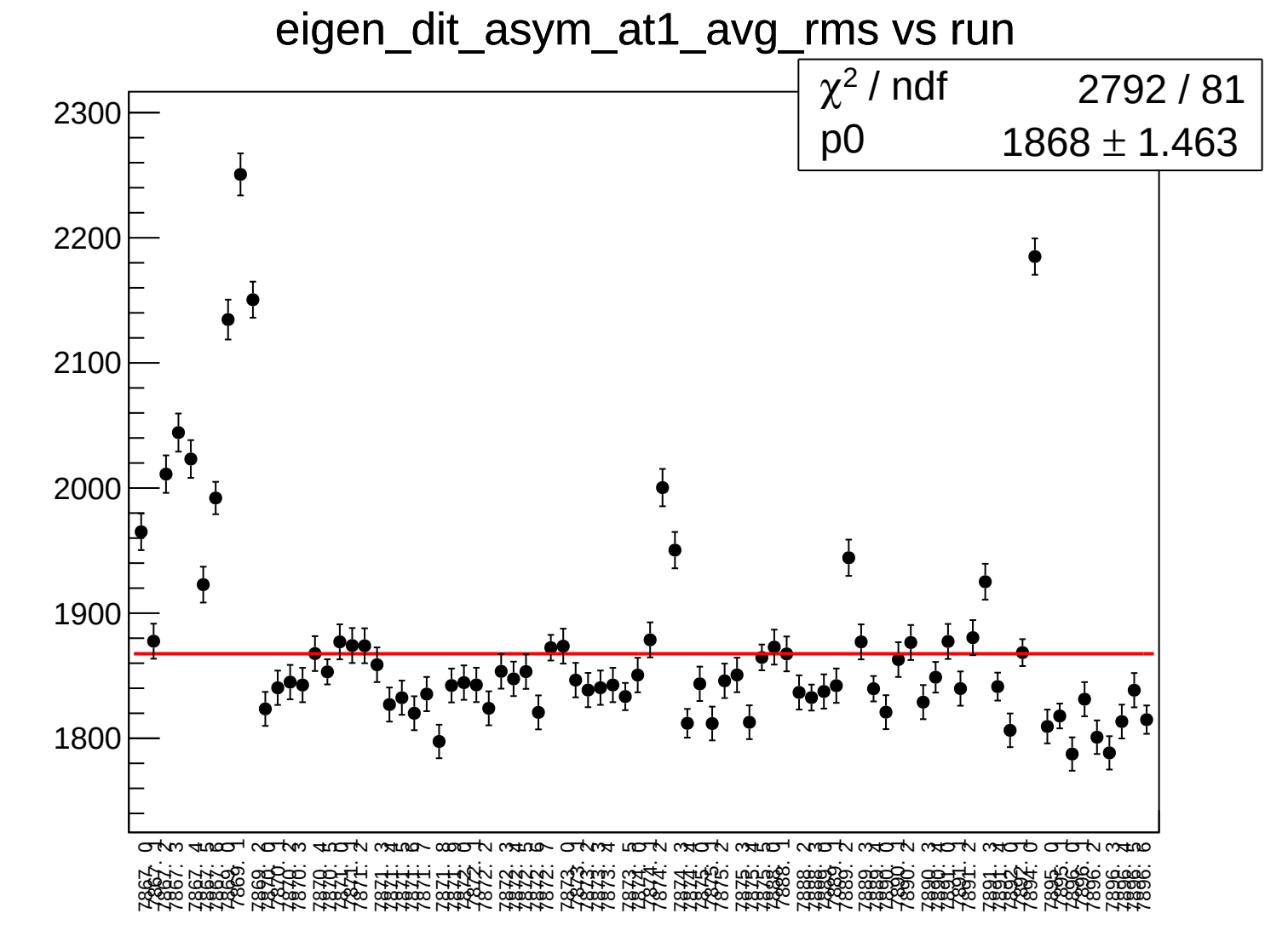

dit_asym_at1_avg_rms vs run
χ² / ndf 2792 / 81
p0 1868 ± 1.463
2300
2200
2100
2000
1900
1800

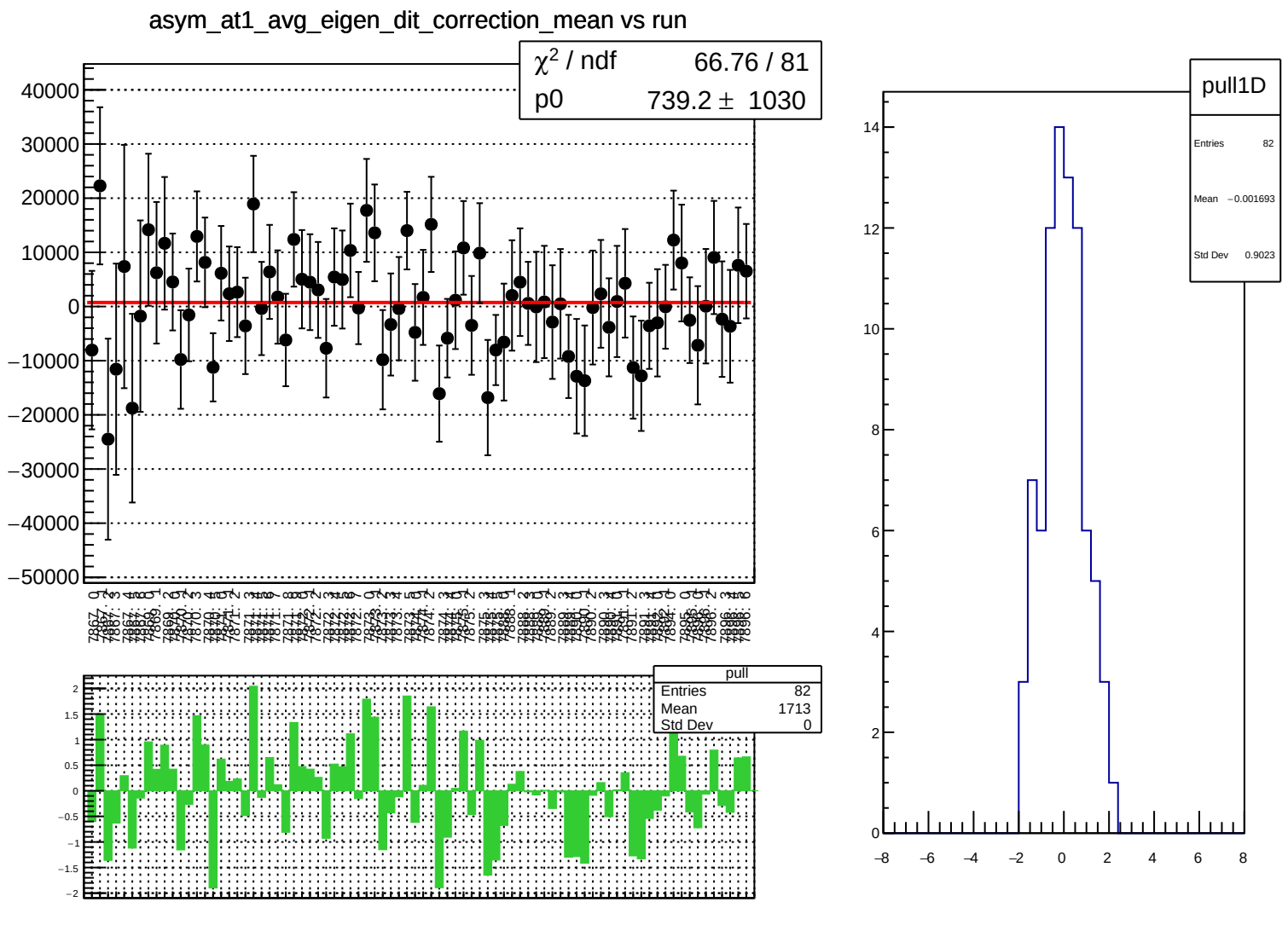

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 66.76 / 81
p0 739.2 ± 1030
pull
Entries 82
Mean 1714
Std Dev 0
pull1D
Entries 82
Mean −0.001693
Std Dev 0.9023

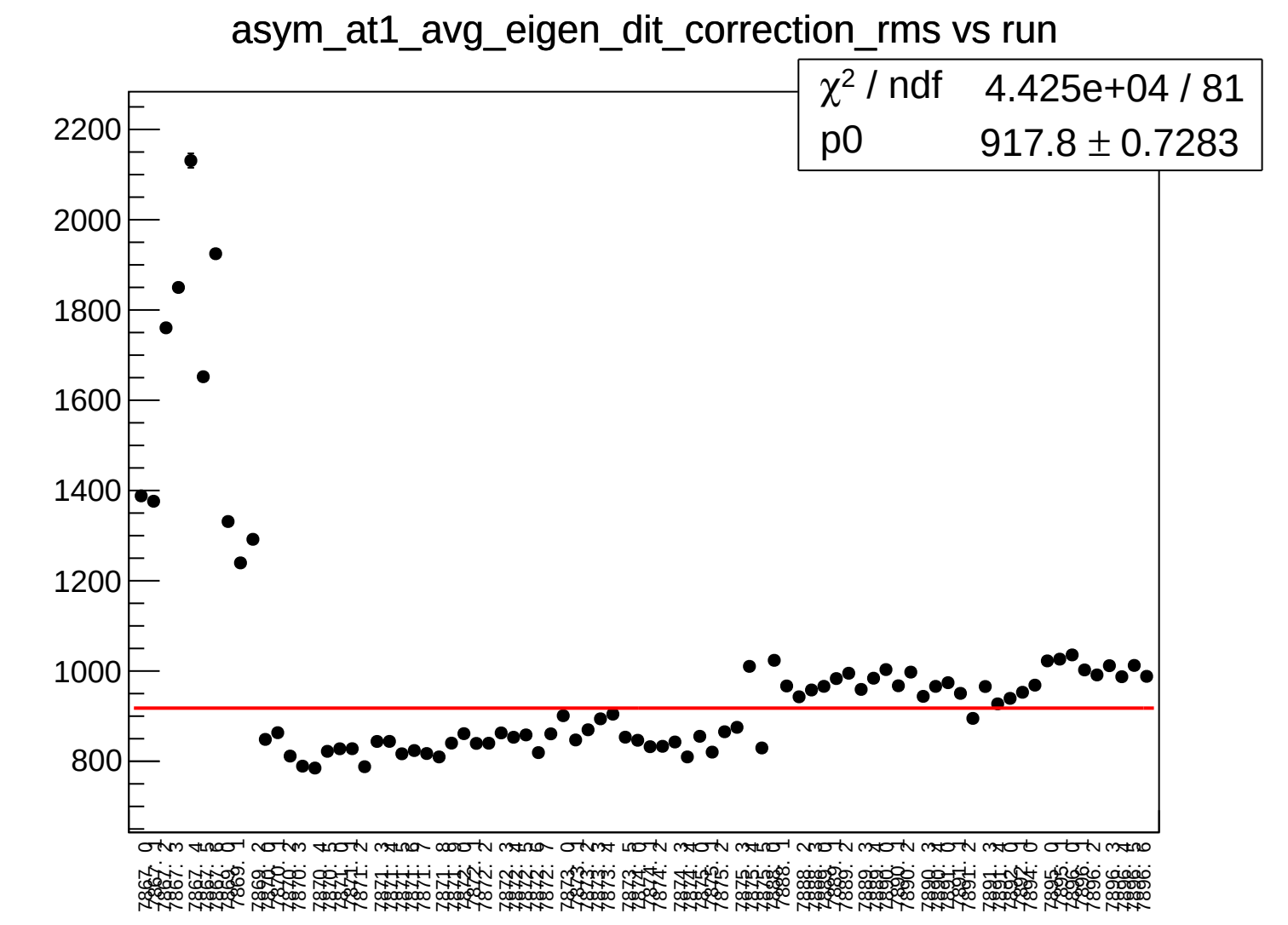

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 4.425e+04 / 81
p0 917.8 ± 0.7283
2200
2000
1800
1600
1400
1200
1000
800

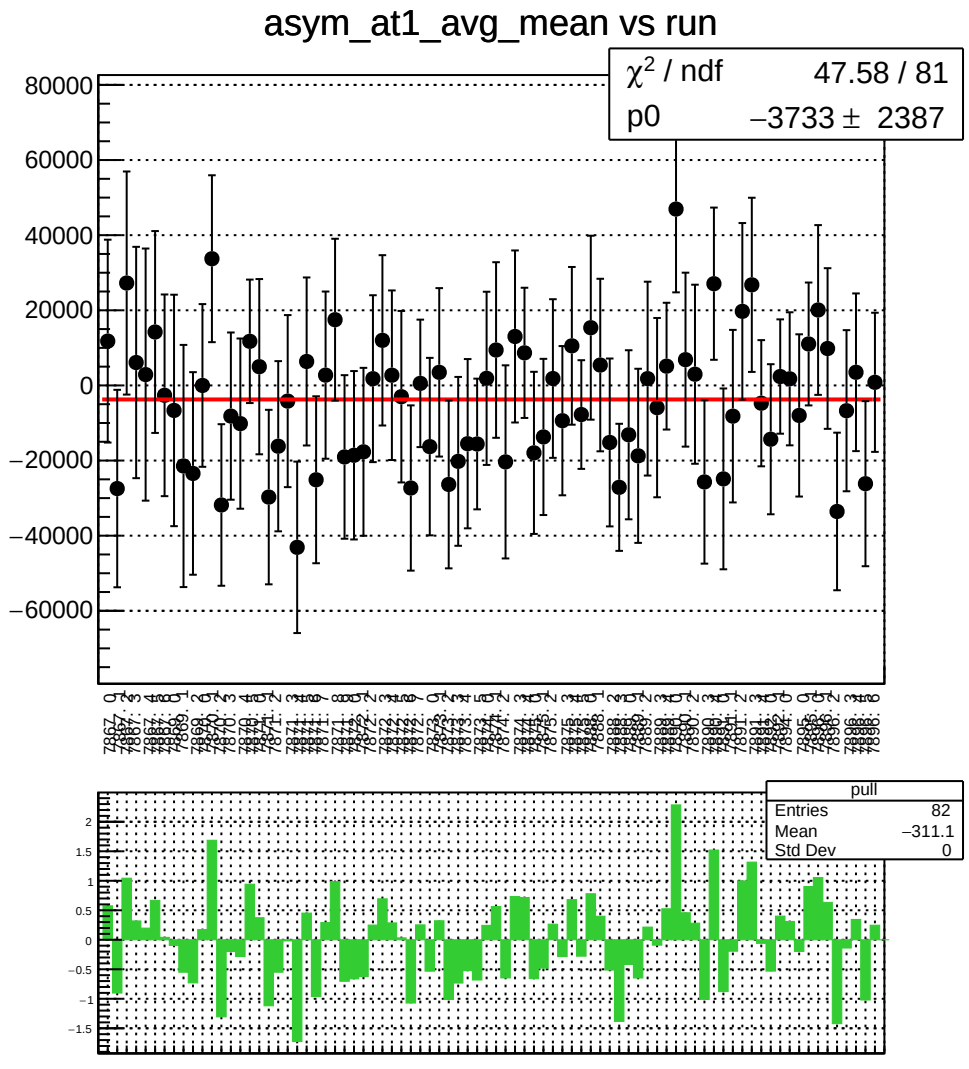

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 40.18 / 81
p0 −3333 ± 2069
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −4.961e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

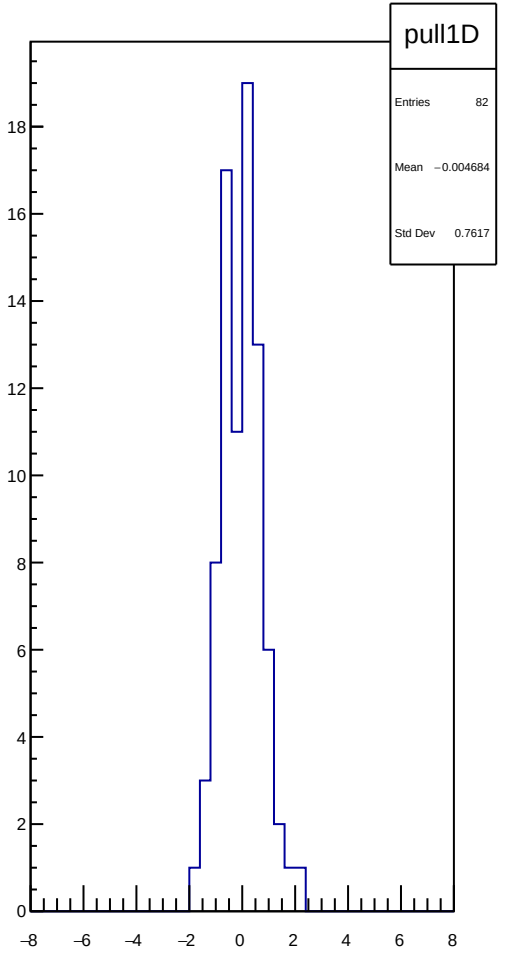

pull1D
Entries 82
Mean −1.463e−06
Std Dev 0.7
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

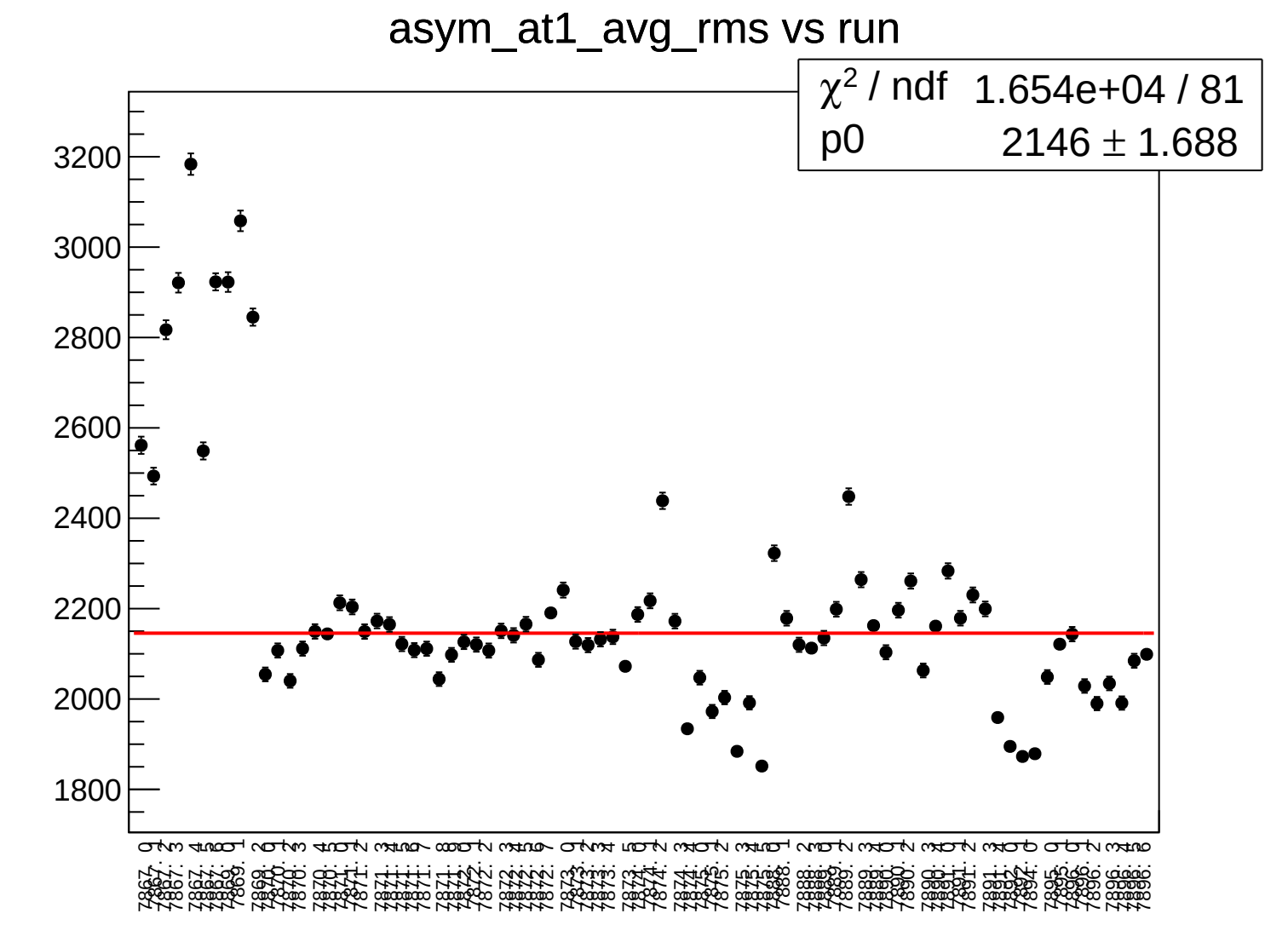

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 2792 / 81
p0 1868 ± 1.463
2300
2200
2100
2000
1900
1800

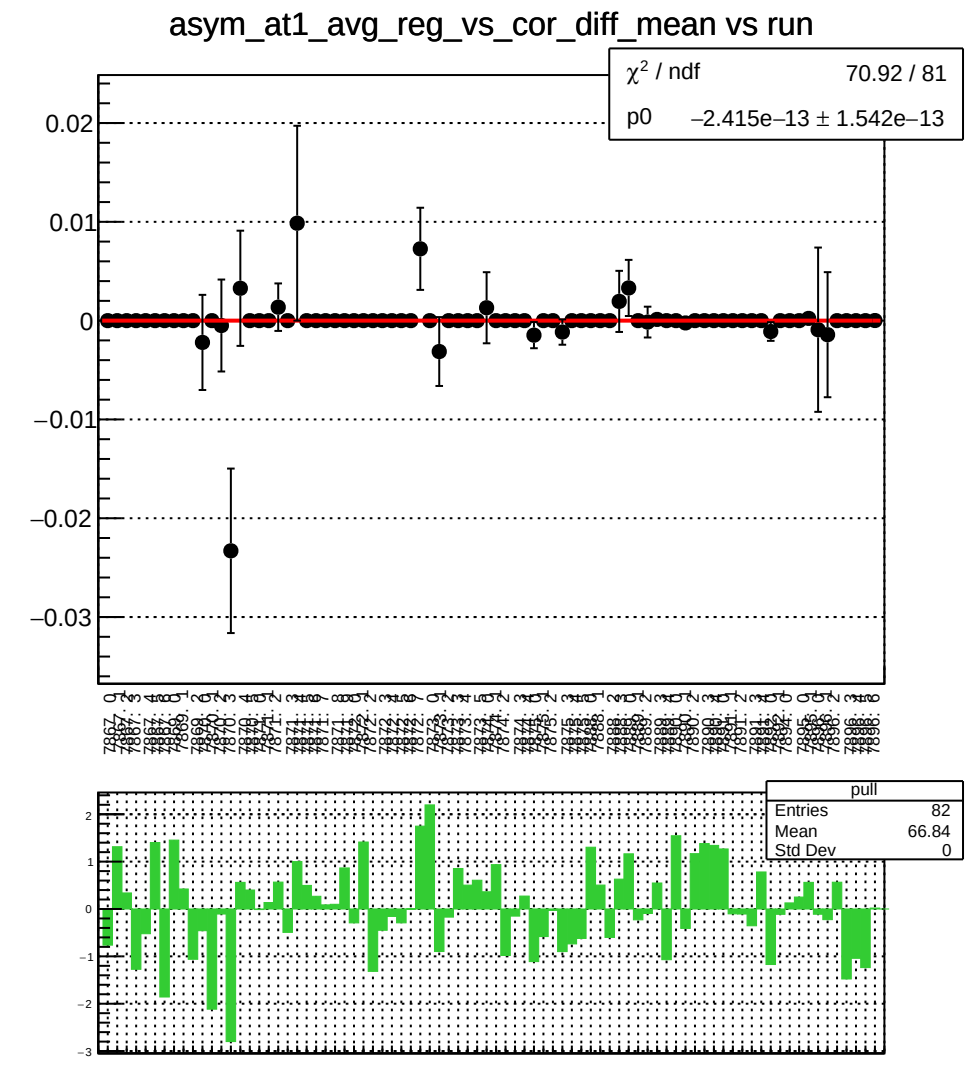

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.76 / 81
p0 739.2 ± 1030
pull
Entries 82
Mean 1713
Std Dev 0
pull1D
Entries 82
Mean −0.001693
Std Dev 0.9023

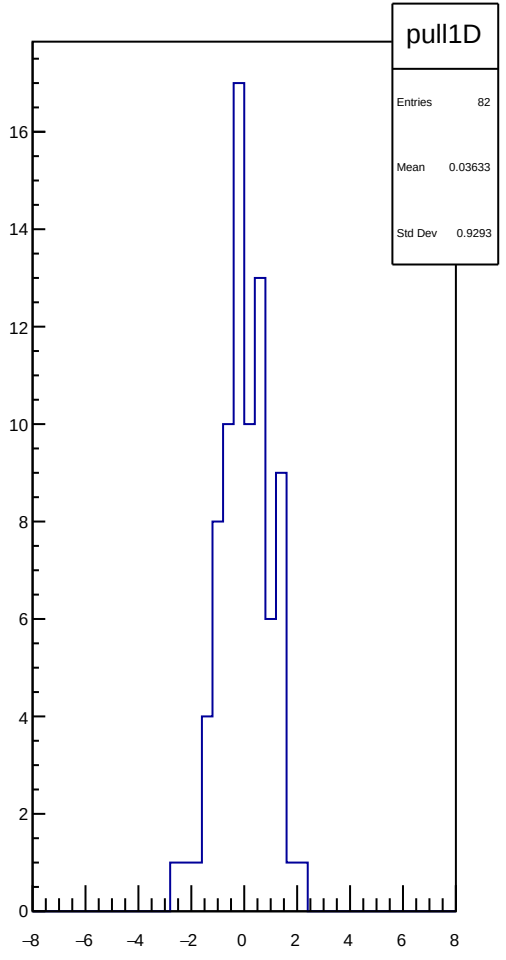

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.425e+04 / 81
p0 917.8 ± 0.7283
2200
2000
1800
1600
1400
1200
1000
800

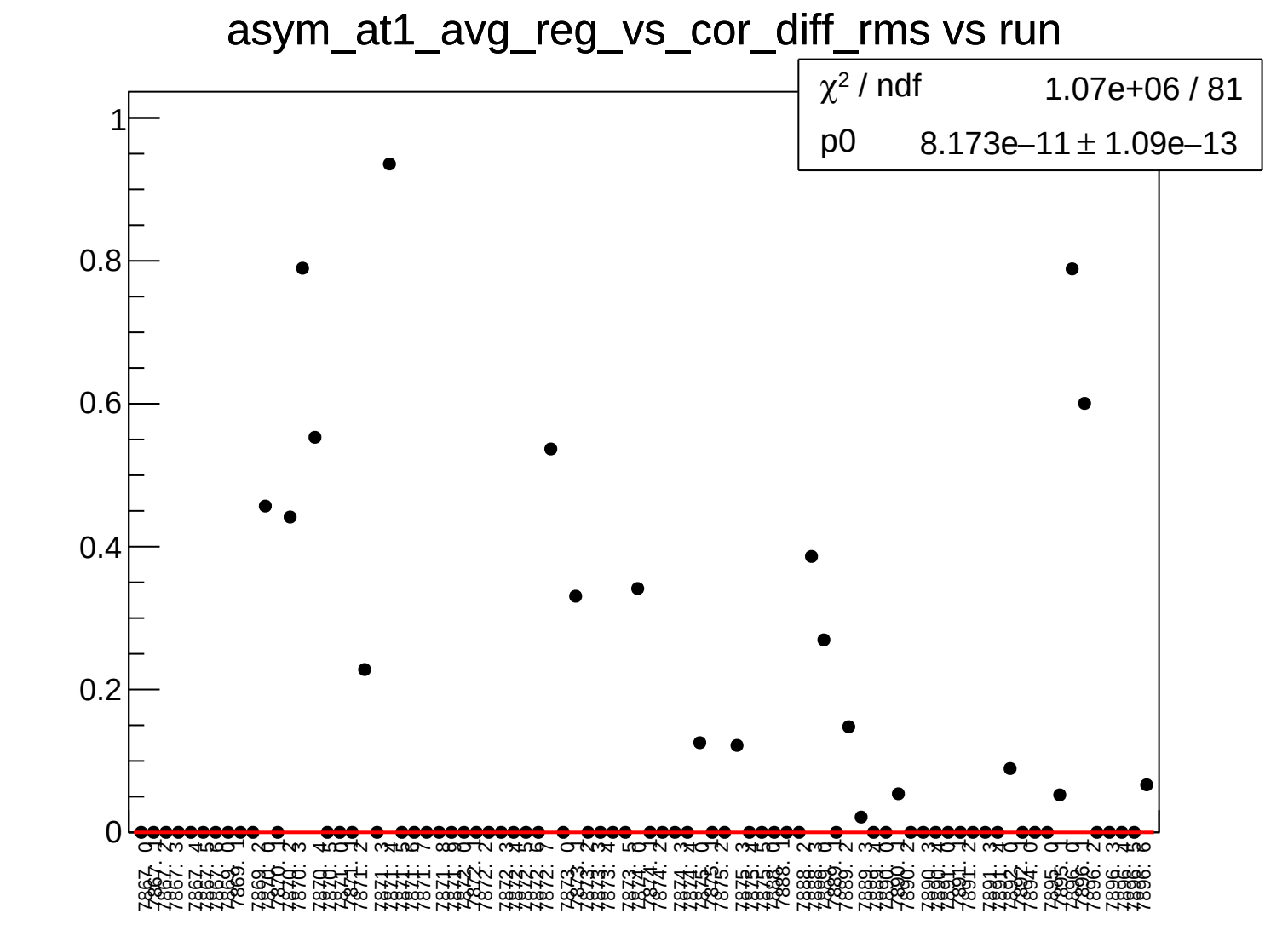

asym_at1_avg_mean vs run
χ² / ndf 47.58 / 81
p0 −3733 ± 2387
pull
Entries 82
Mean −311.1
Std Dev 0

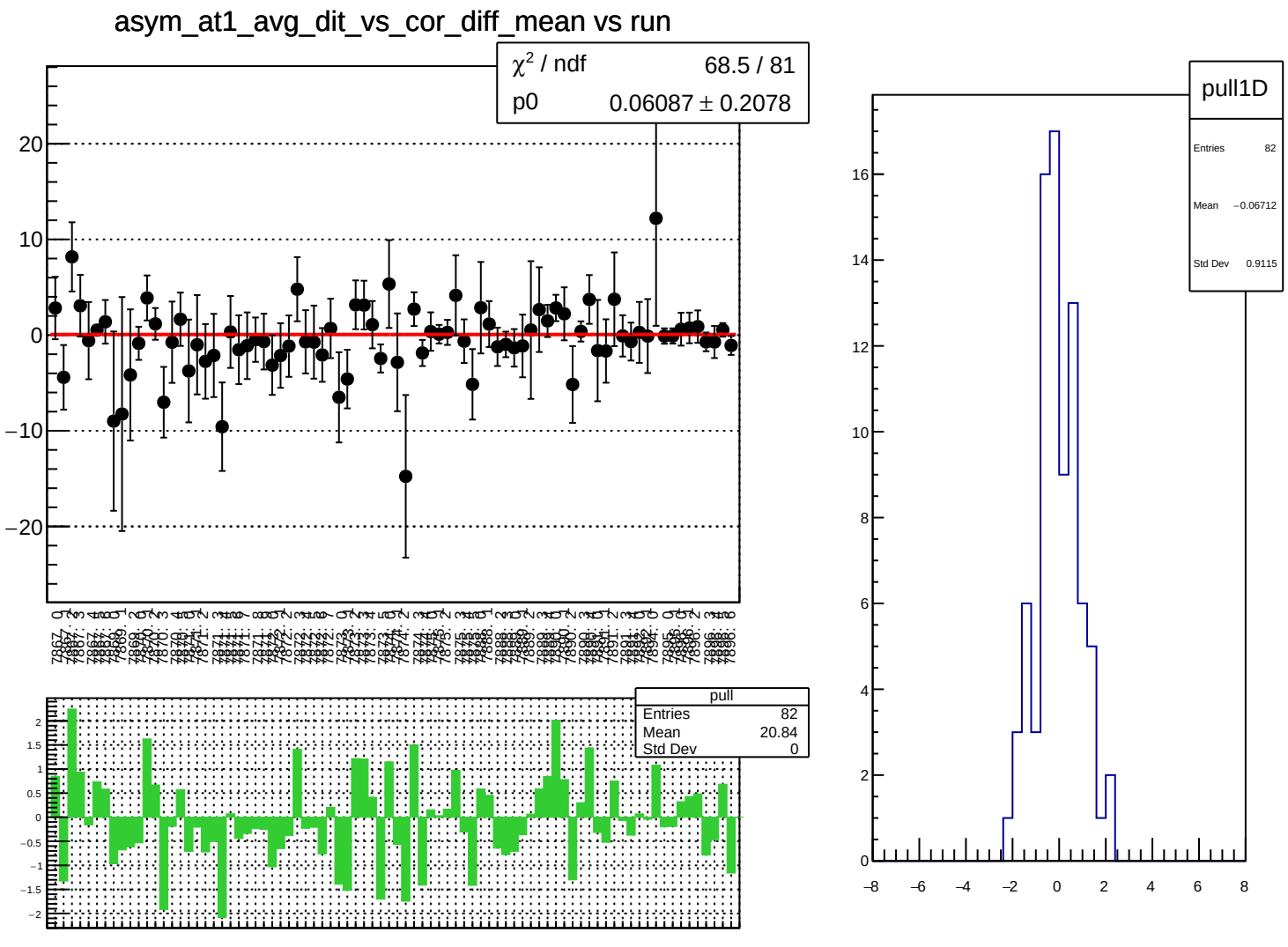

pull1D
Entries 82
Mean −0.004684
Std Dev 0.7617

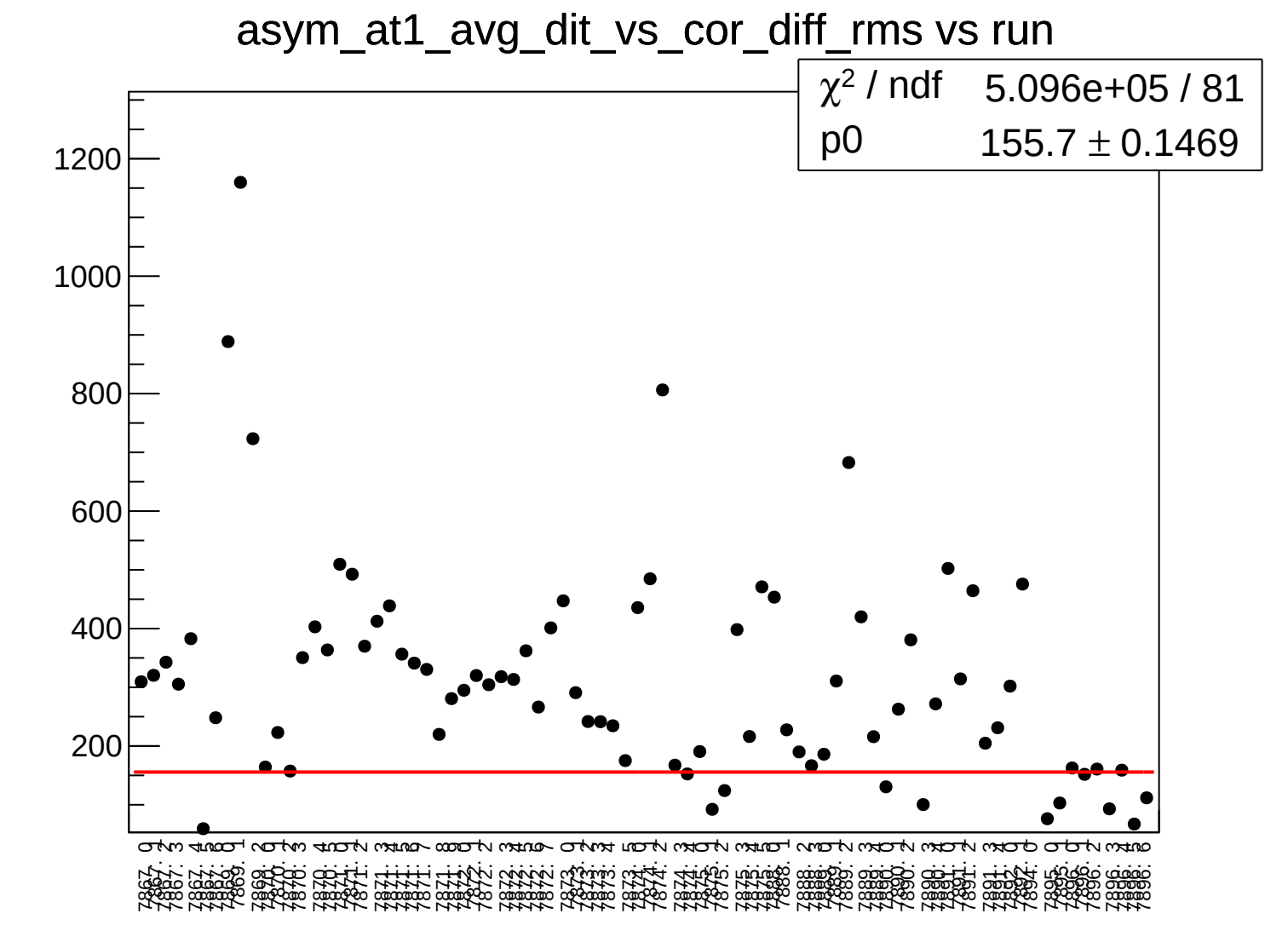

asym_at1_avg_rms vs run
χ^2 / ndf 1.654e+04 / 81
p0 2146 ± 1.688
3200
3000
2800
2600
2400
2200
2000
1800

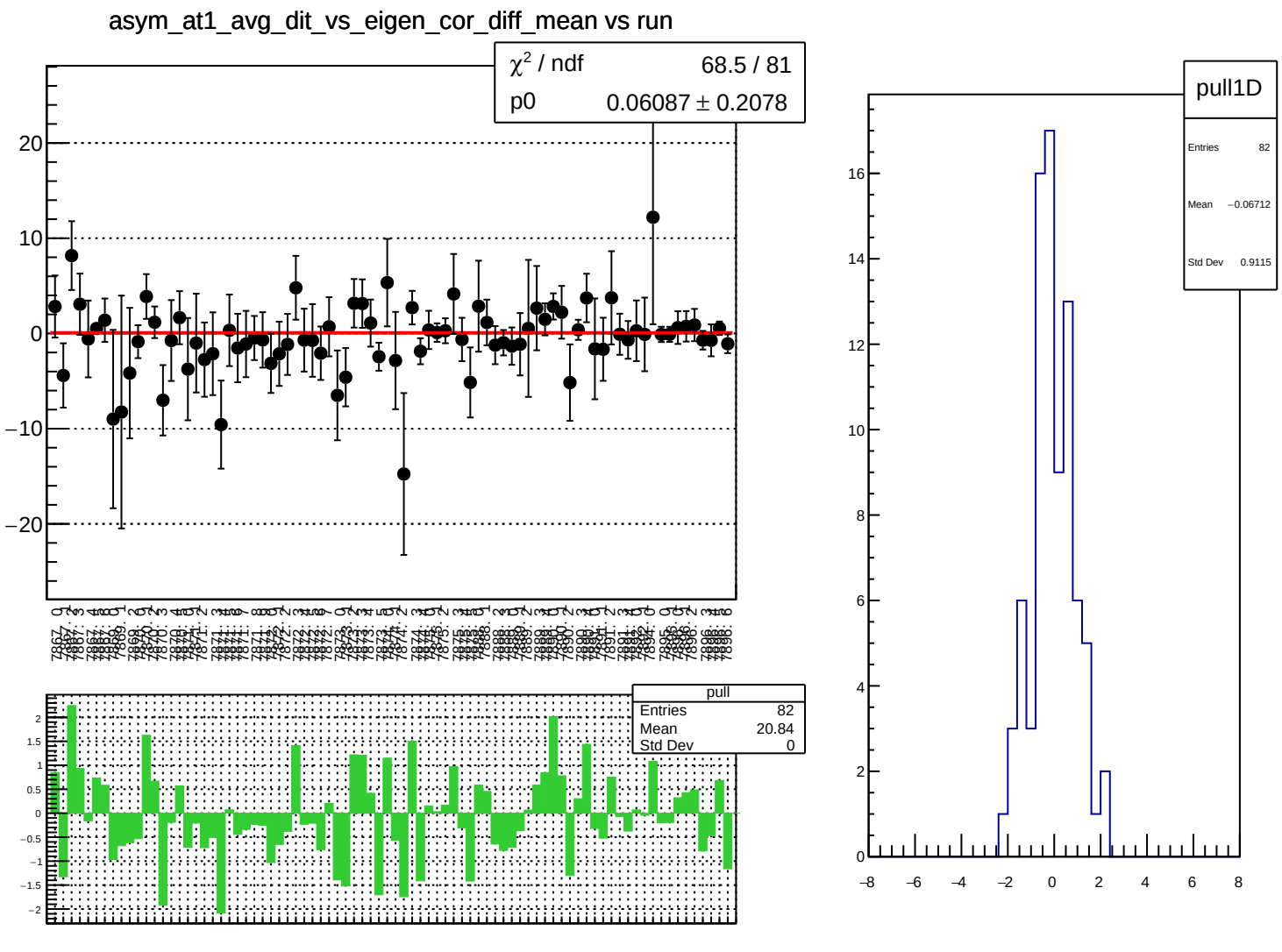

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.92 / 81
p0 −2.415e−13 ± 1.542e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 82
Mean 66.84
Std Dev 0
2
1
0
−1
−2
−3

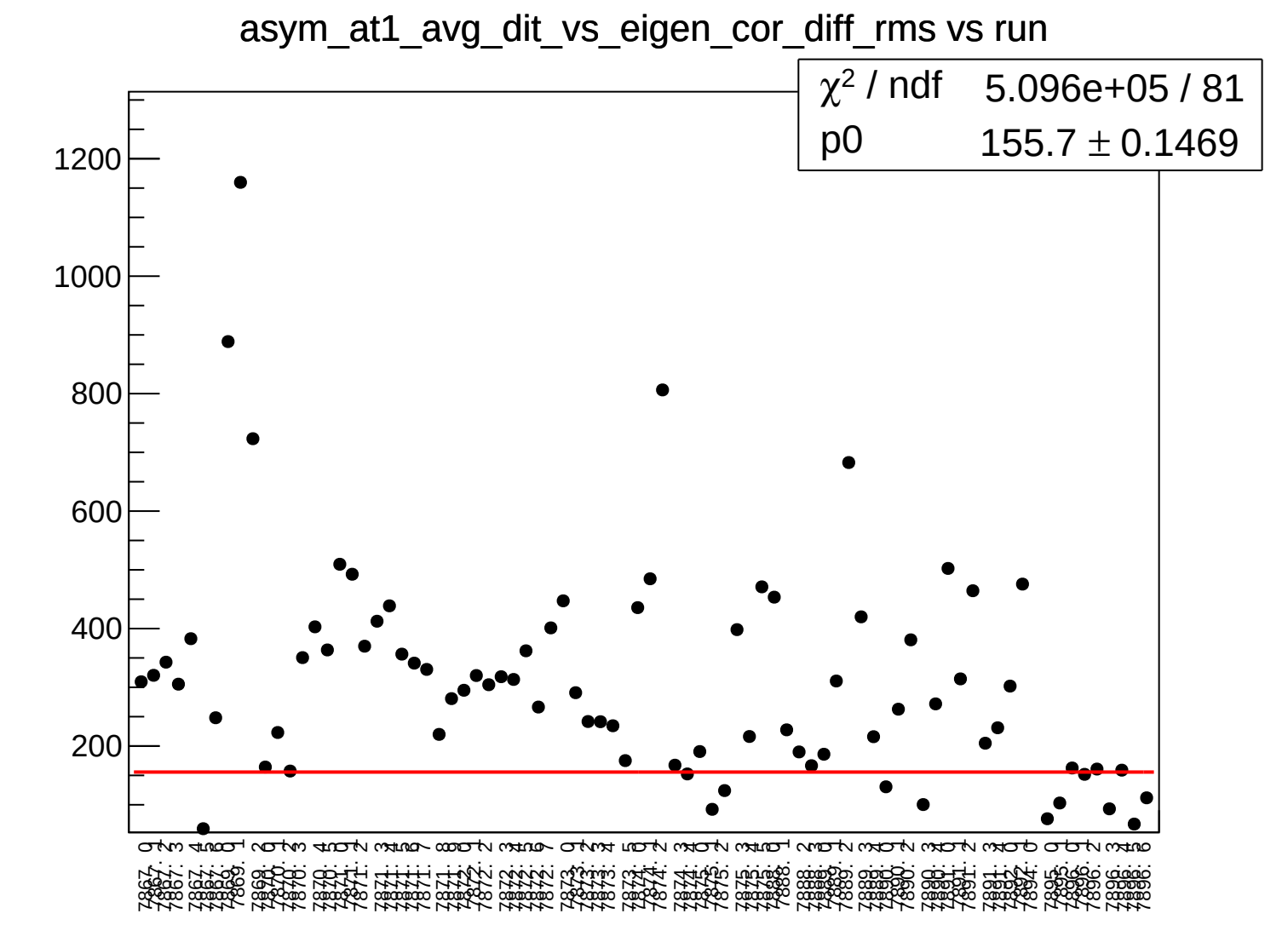

pull1D
Entries 82
Mean 0.03633
Std Dev 0.9293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

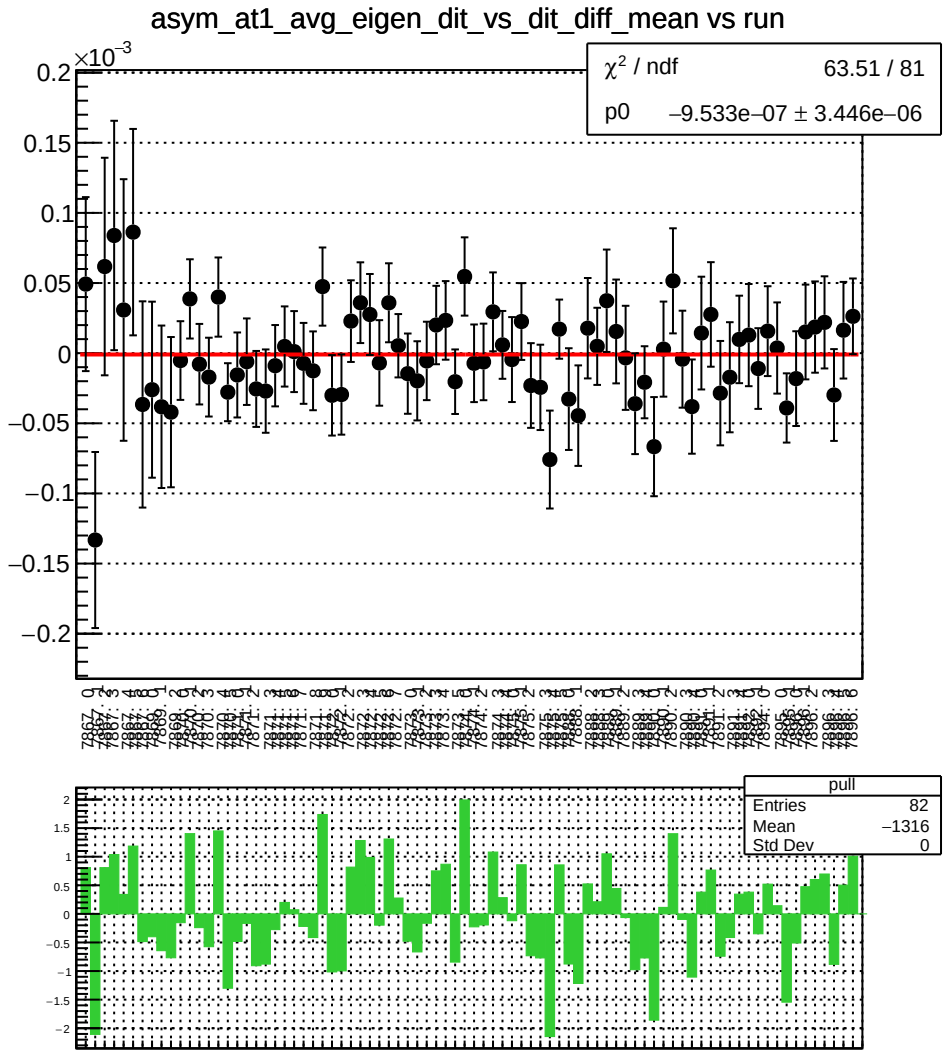

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.07e+06 / 81
p0 8.173e−11 ± 1.09e−13
1
0.8
0.6
0.4
0.2
0

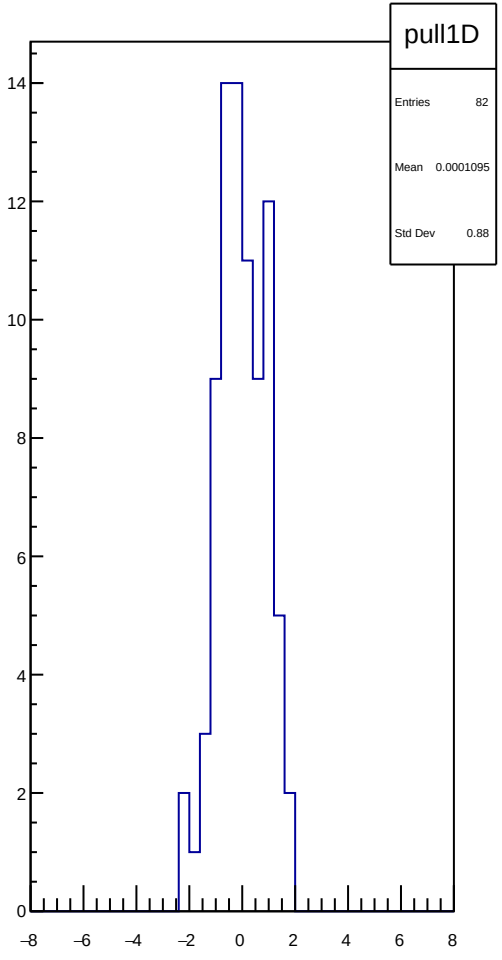

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.5 / 81
p0 0.06087 ± 0.2078
pull
Entries 82
Mean 20.84
Std Dev 0
pull1D
Entries 82
Mean −0.06712
Std Dev 0.9115

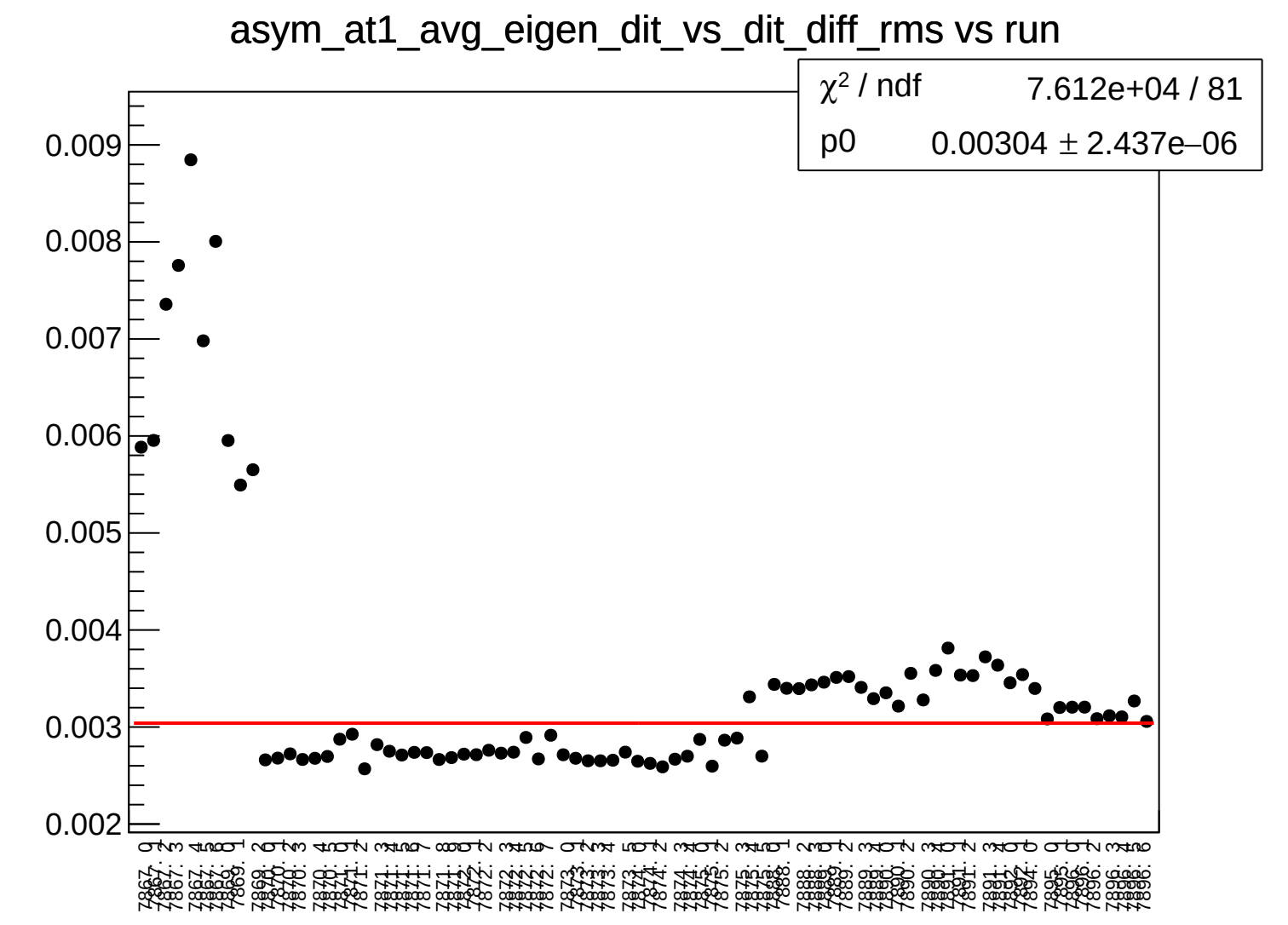

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.096e+05 / 81
p0 155.7 ± 0.1469
1200
1000
800
600
400
200

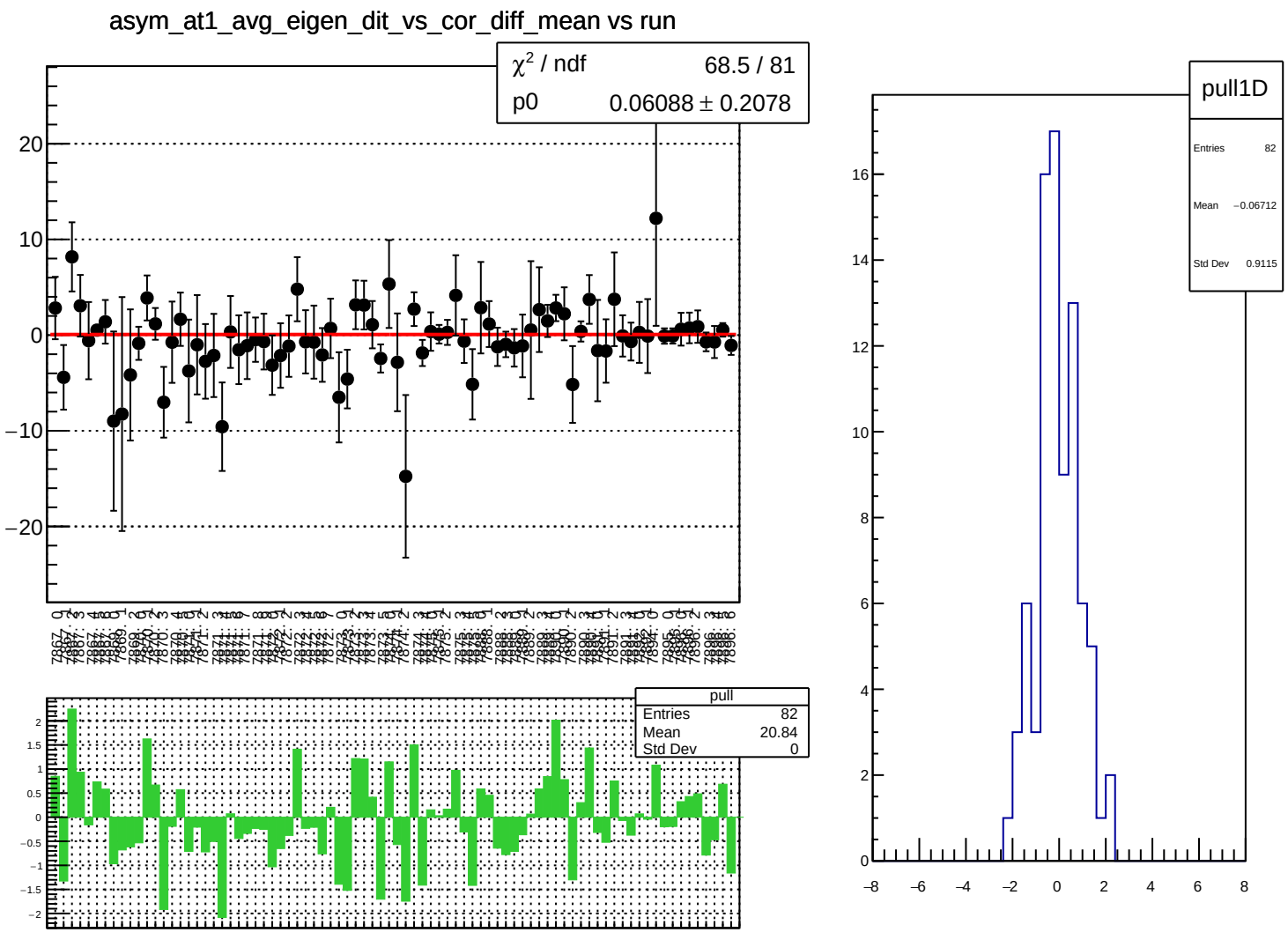

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.5 / 81
p0 0.06087 ± 0.2078
pull
Entries 82
Mean 20.84
Std Dev 0
pull1D
Entries 82
Mean −0.06712
Std Dev 0.9115

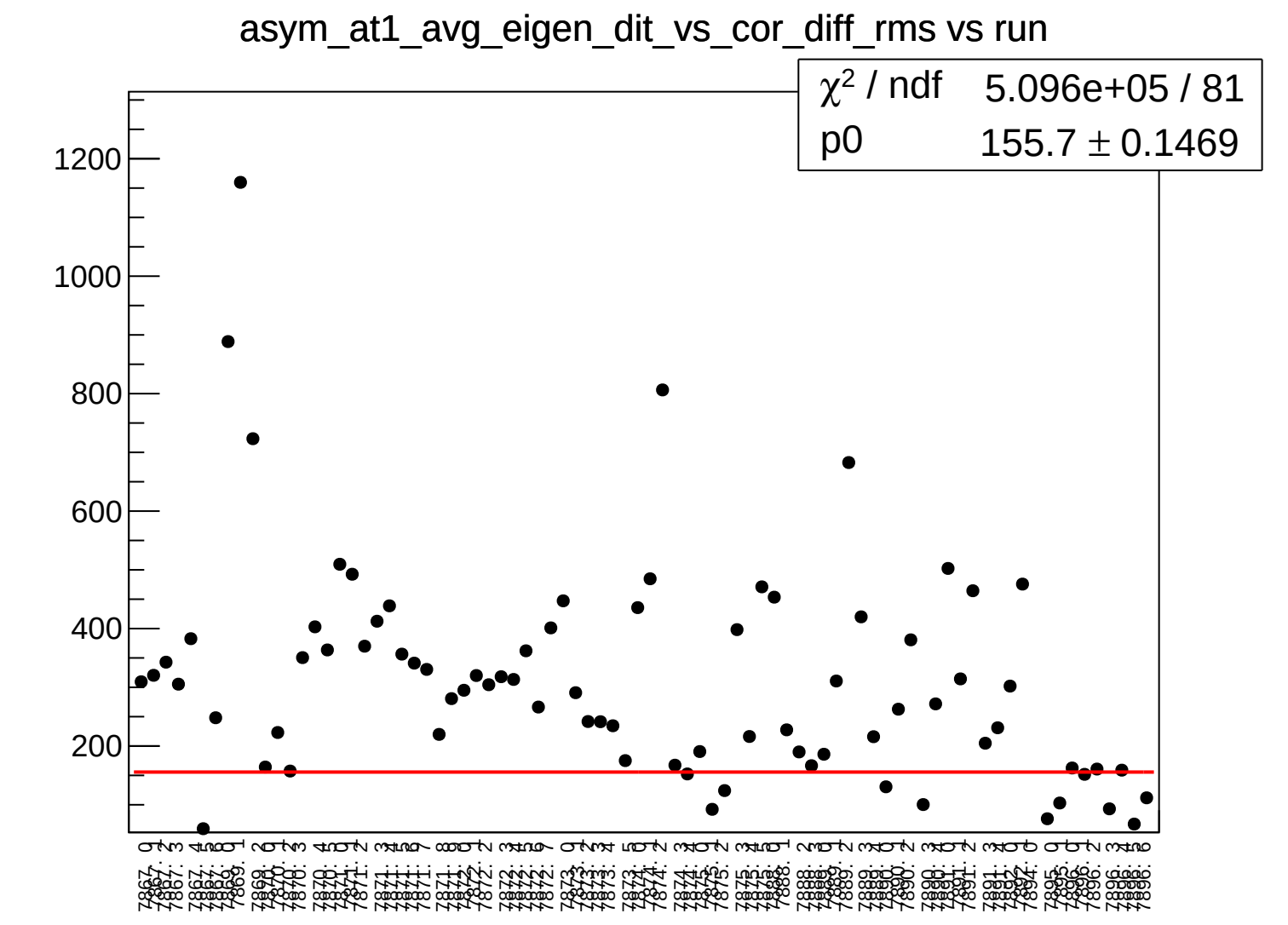

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.096e+05 / 81
p0 155.7 ± 0.1469
1200
1000
800
600
400
200

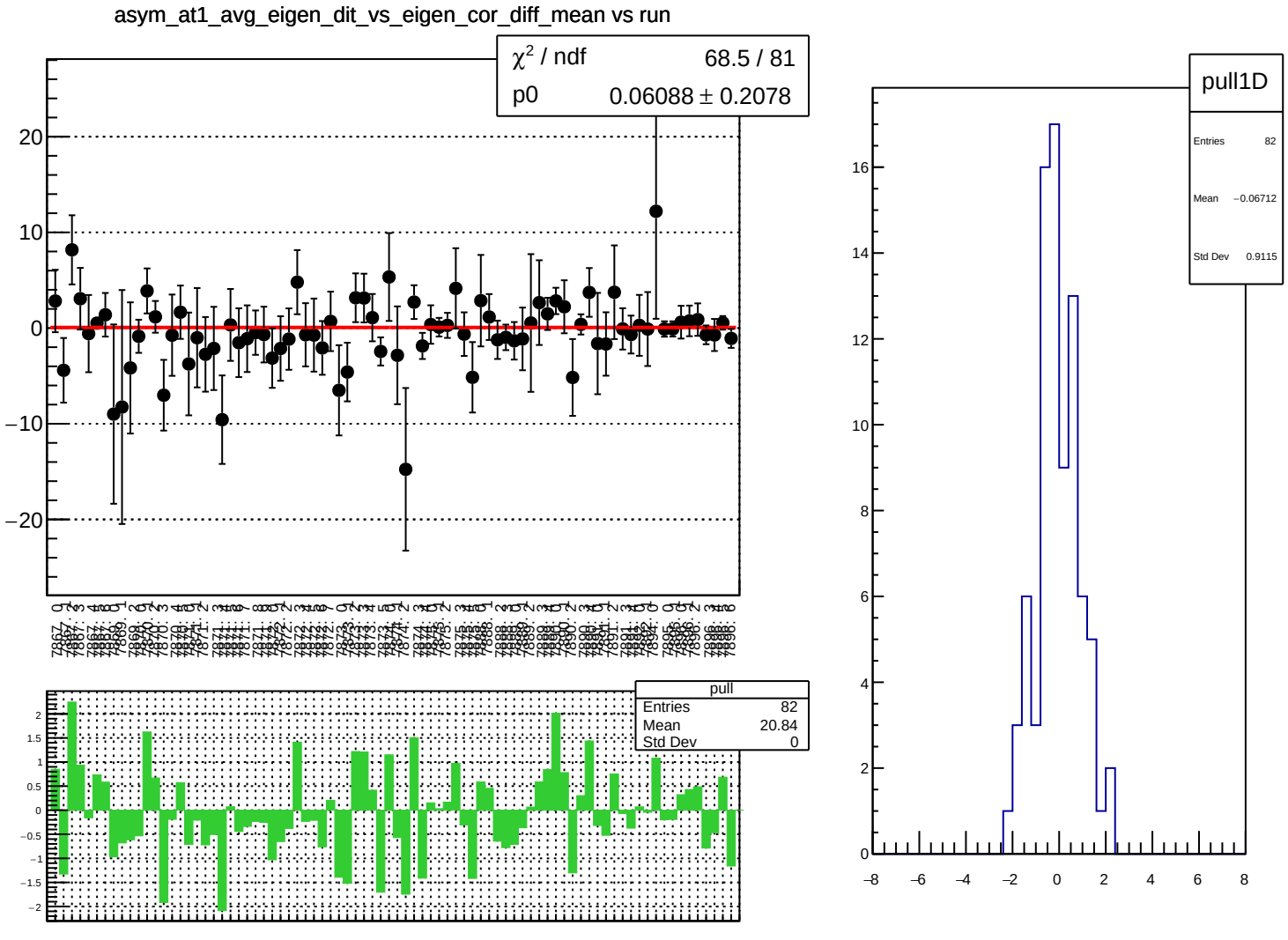

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.51 / 81
p0 −9.533e−07 ± 3.446e−06
pull
Entries 82
Mean −1316
Std Dev 0

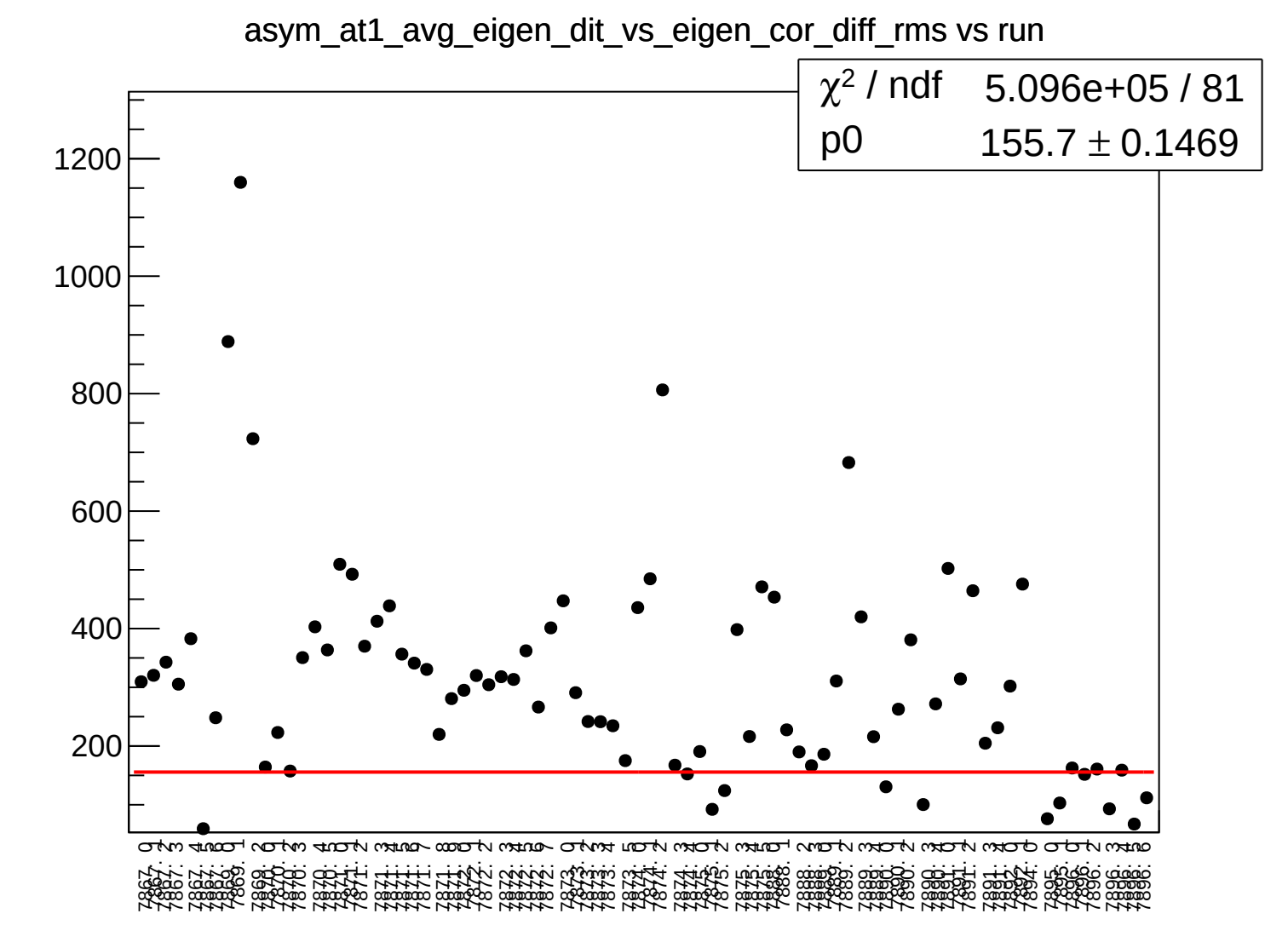

pull1D
Entries 82
Mean 0.0001095
Std Dev 0.88

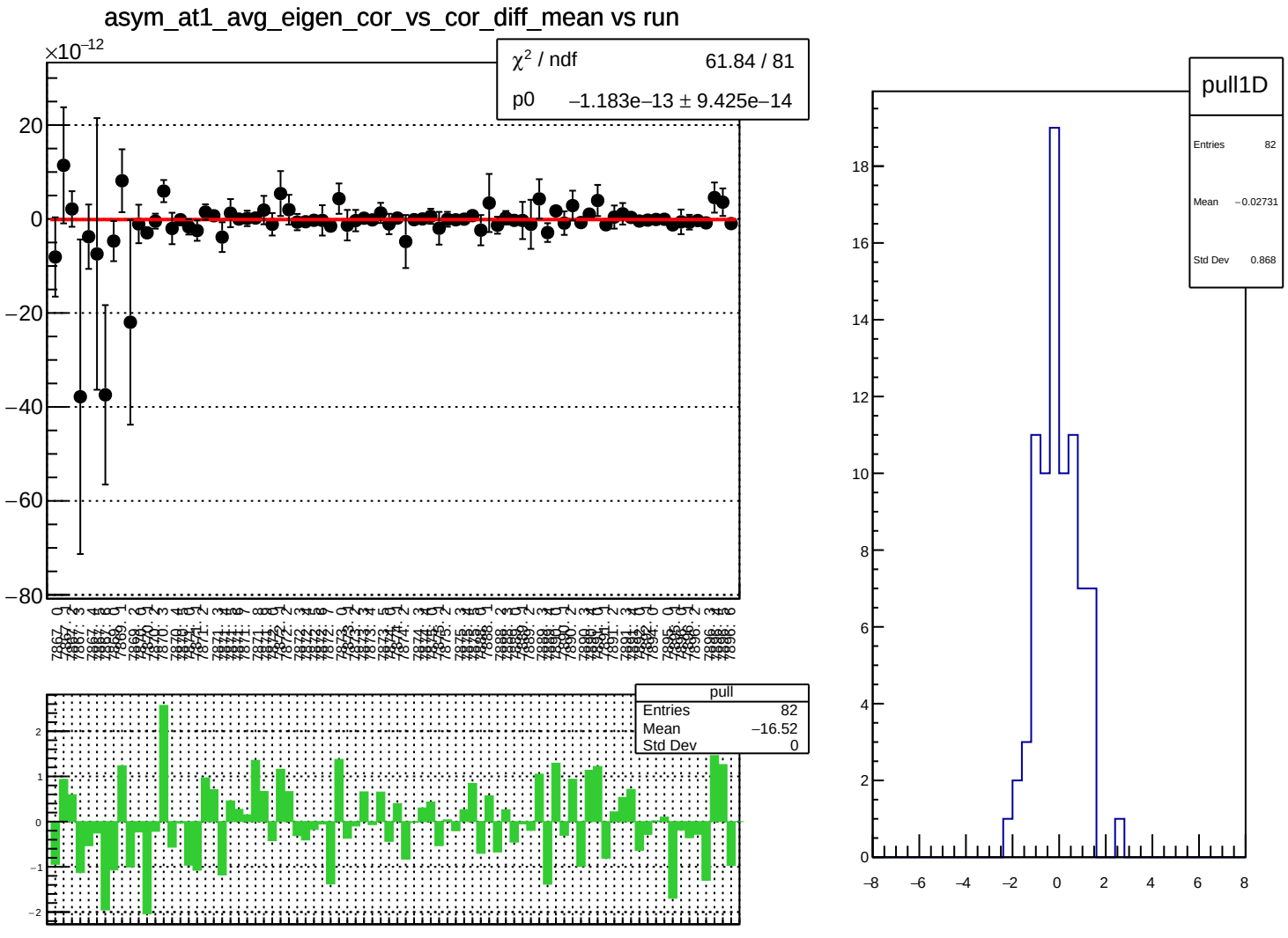

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.612e+04 / 81
p0 0.00304 ± 2.437e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

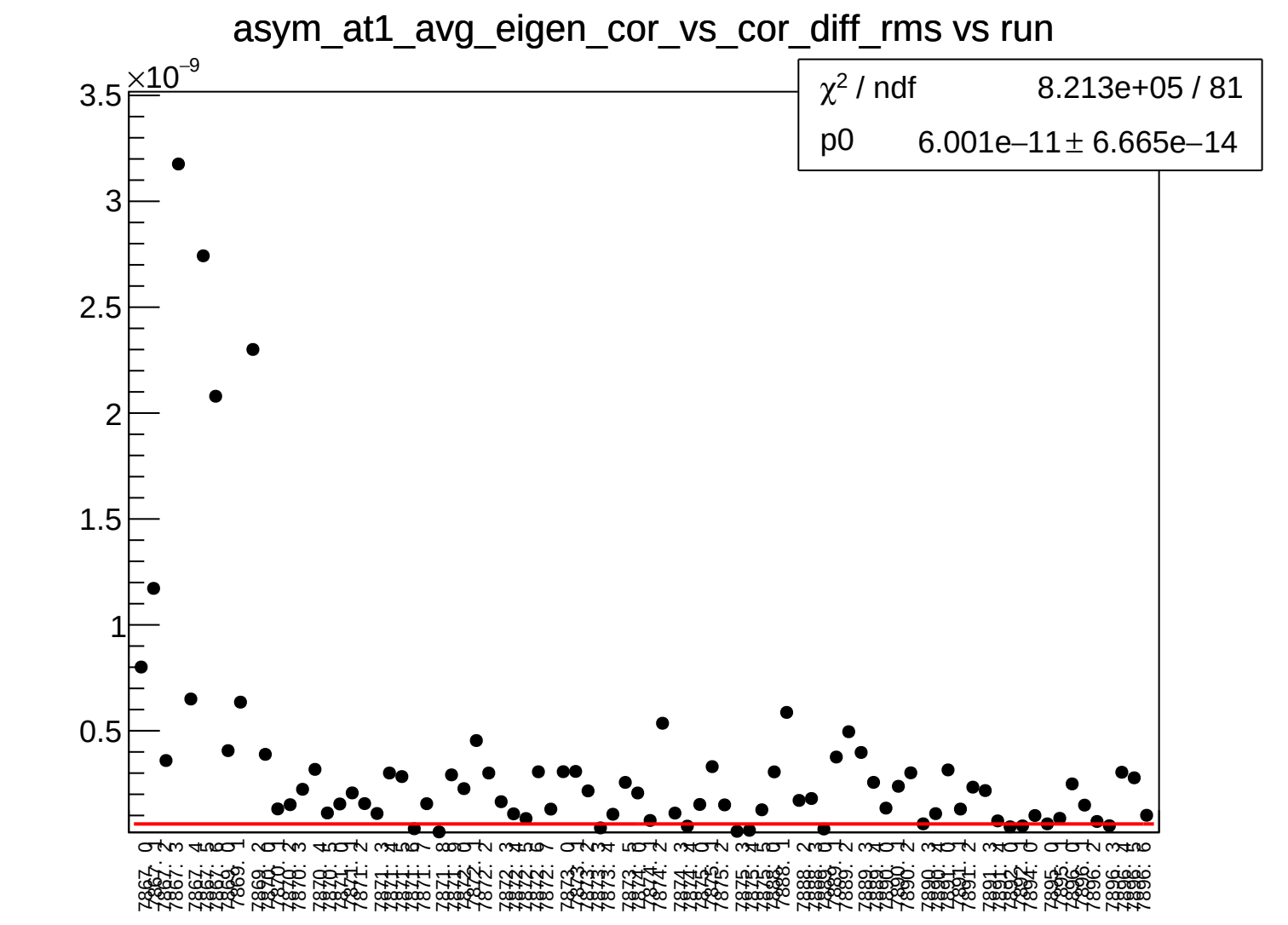

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.5 / 81
p0 0.06088 ± 0.2078
pull
Entries 82
Mean 20.84
Std Dev 0
pull1D
Entries 82
Mean −0.06712
Std Dev 0.9115

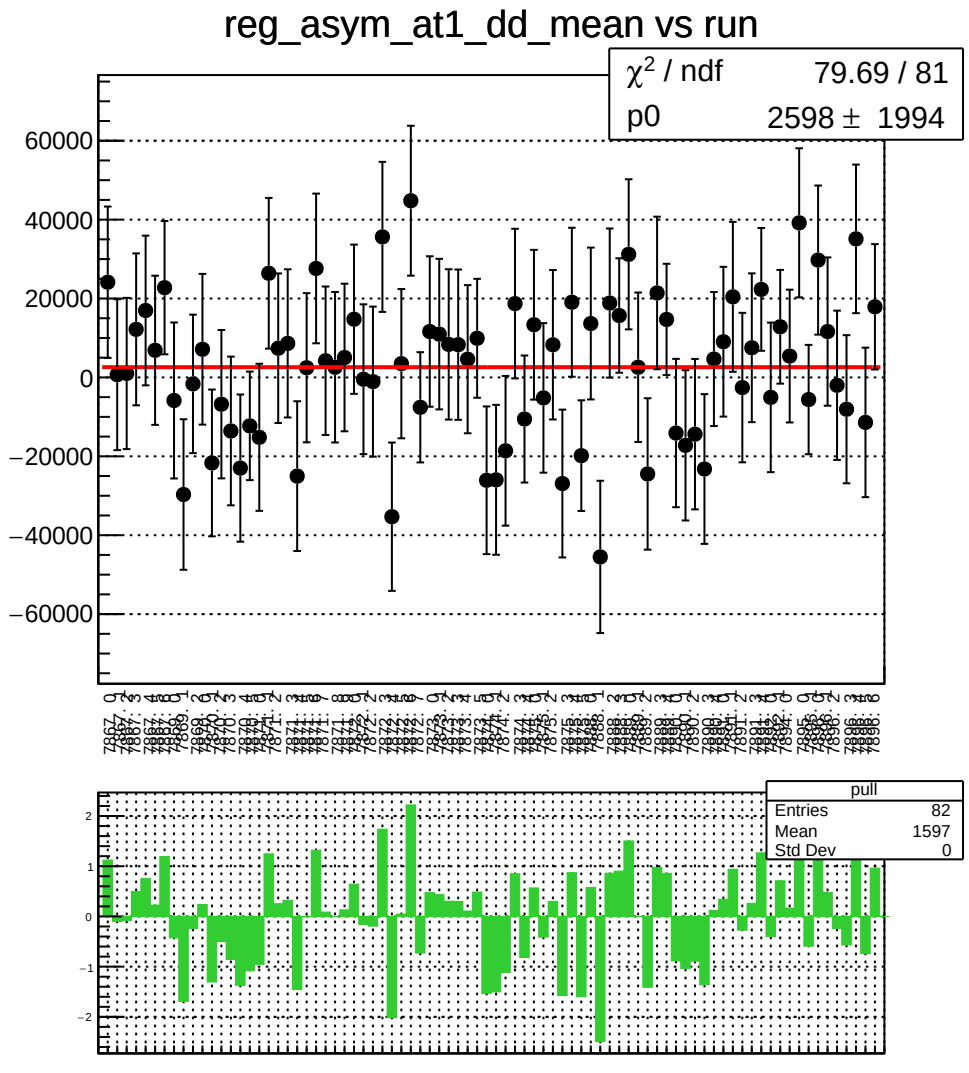

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.096e+05 / 81
p0 155.7 ± 0.1469
1200
1000
800
600
400
200

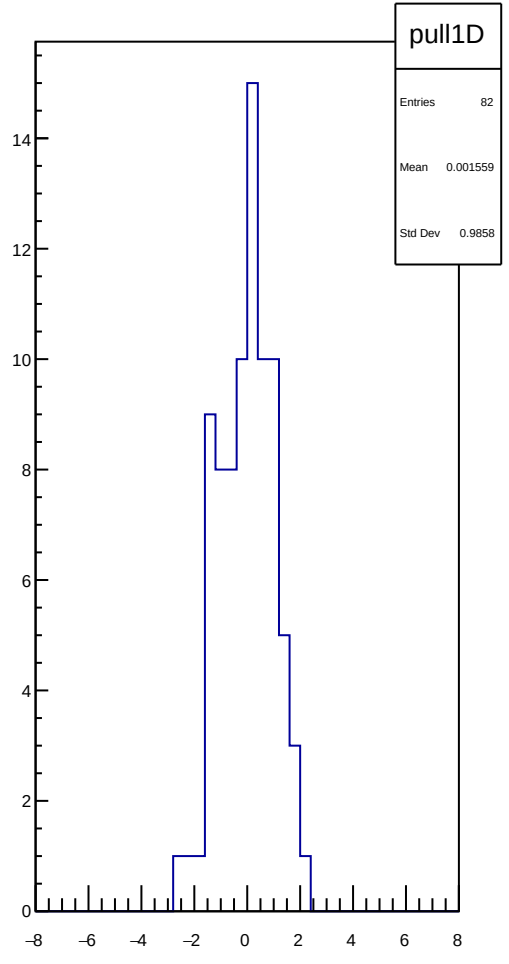

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.5 / 81
p0 0.06088 ± 0.2078
pull
Entries 82
Mean 20.84
Std Dev 0
pull1D
Entries 82
Mean −0.06712
Std Dev 0.9115

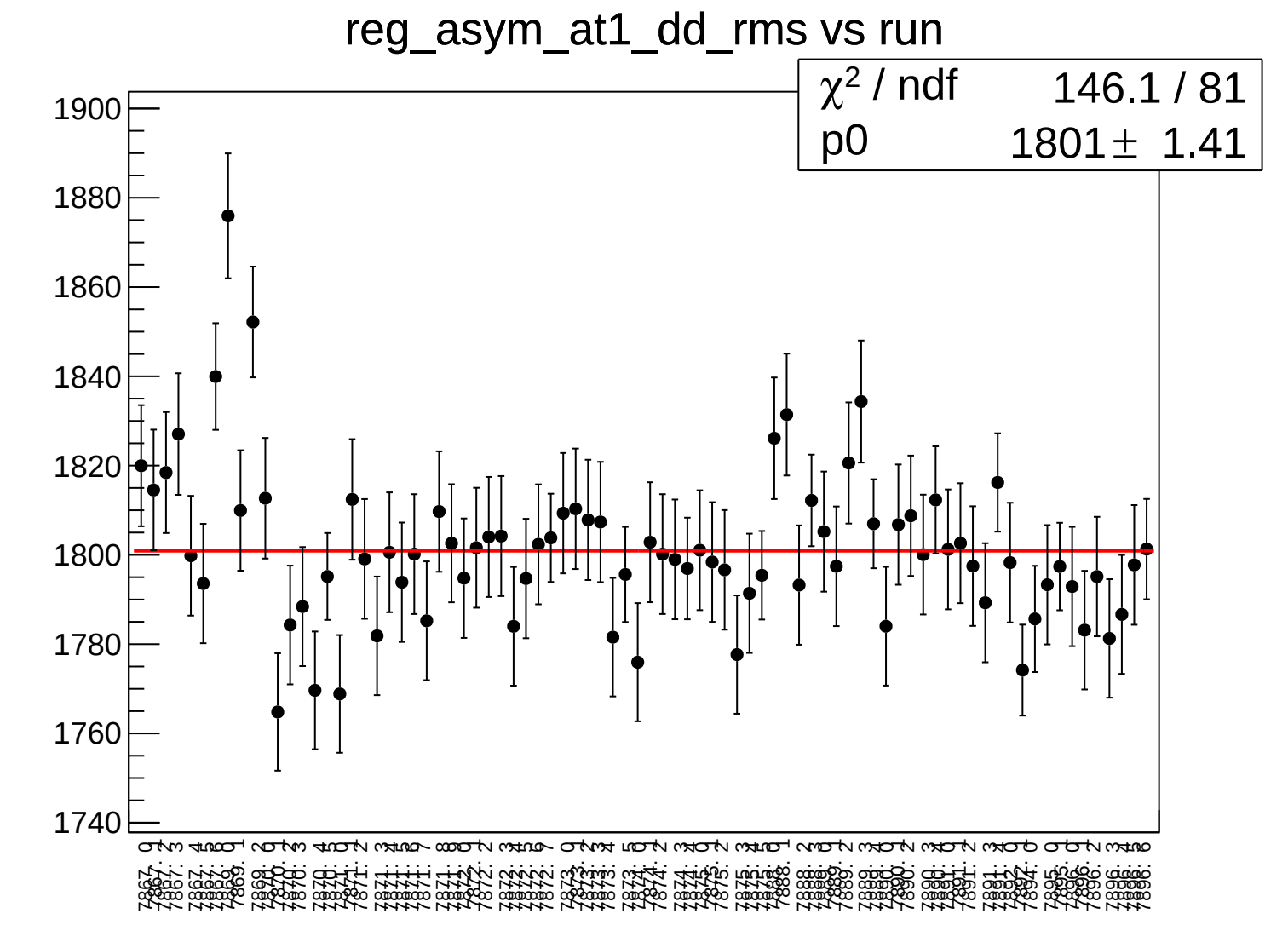

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.096e+05 / 81
p0 155.7 ± 0.1469
1200
1000
800
600
400
200

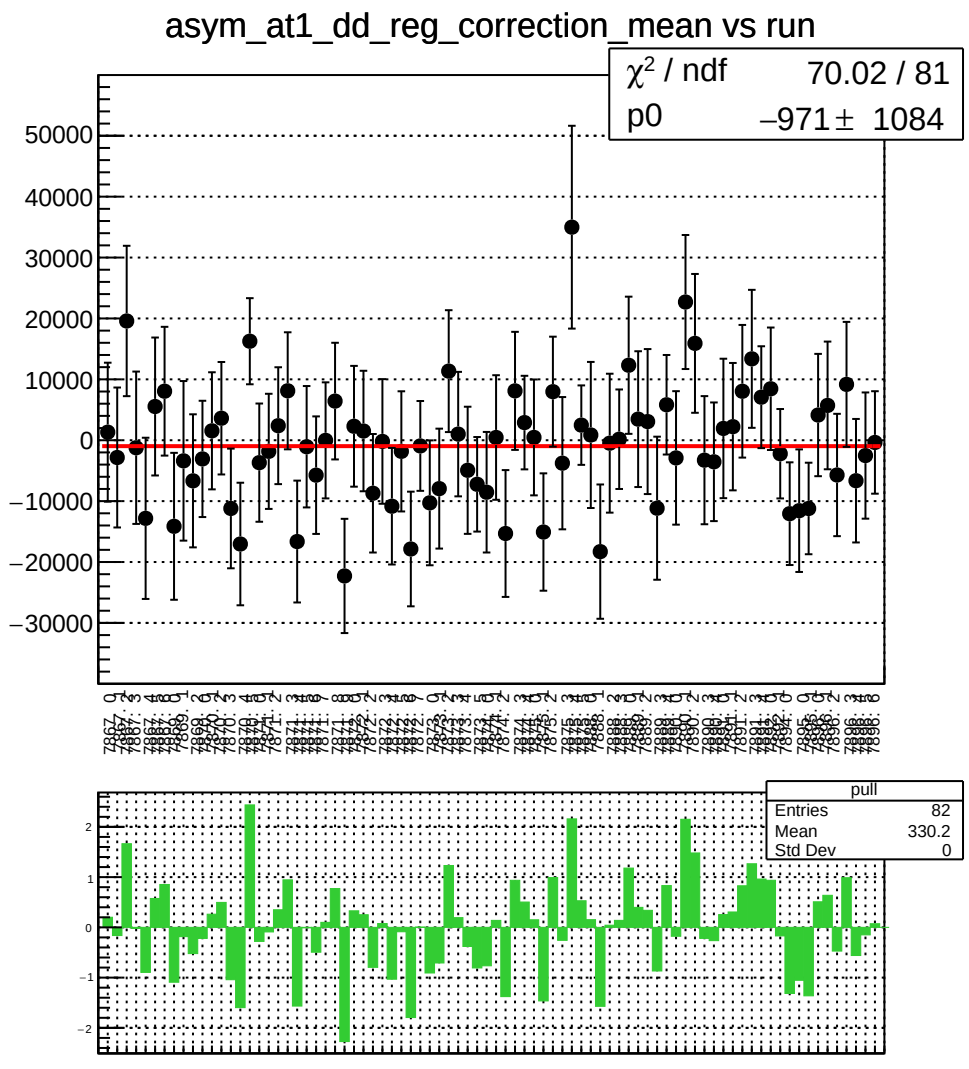

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.84 / 81
p0 −1.183e−13 ± 9.425e−14
20
0
−20
−40
−60
−80
pull
Entries 82
Mean −16.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.02731
Std Dev 0.868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

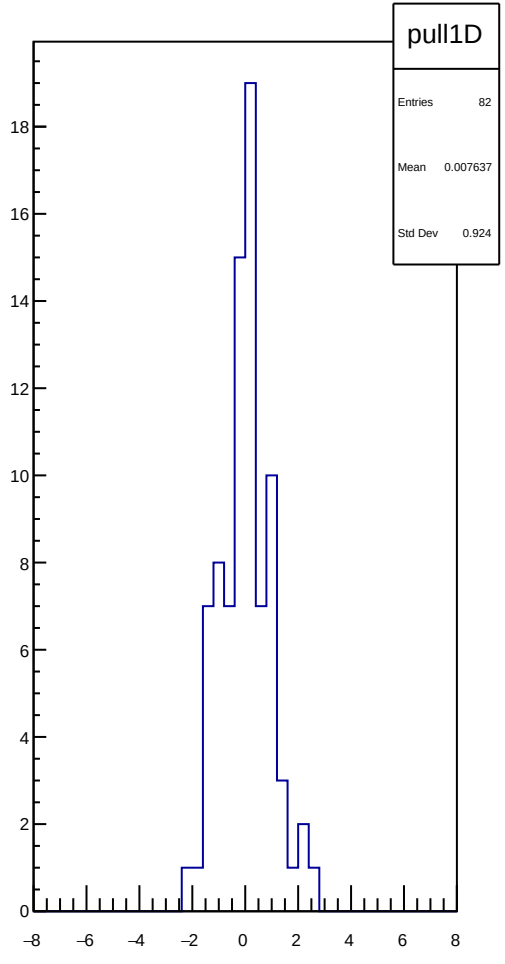

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 8.213e+05 / 81
p0 6.001e−11 ± 6.665e−14

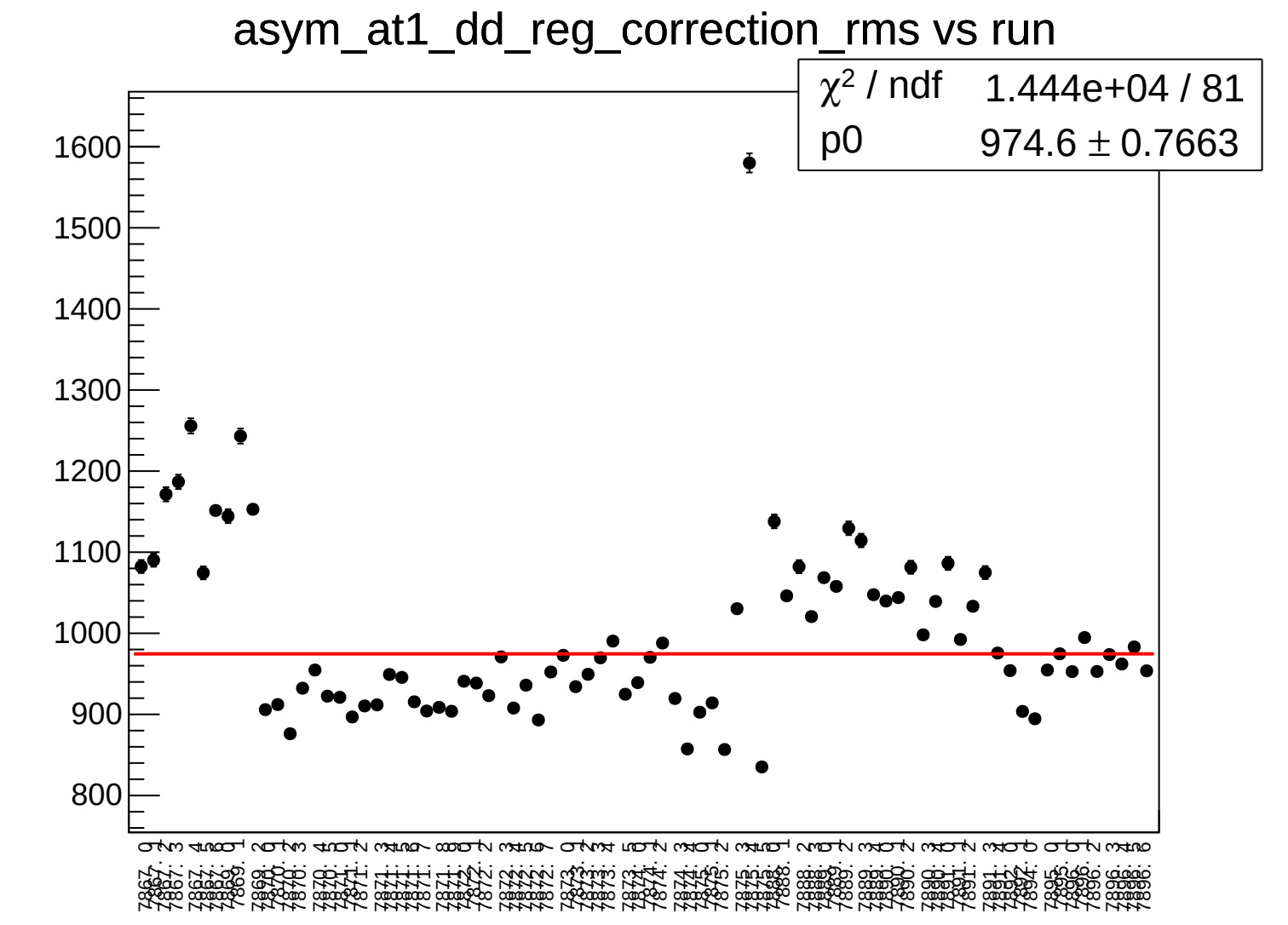

reg_asym_at1_dd_mean vs run
χ² / ndf 79.69 / 81
p0 2598 ± 1994
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1597
Std Dev 0
2
1
0
−1
−2

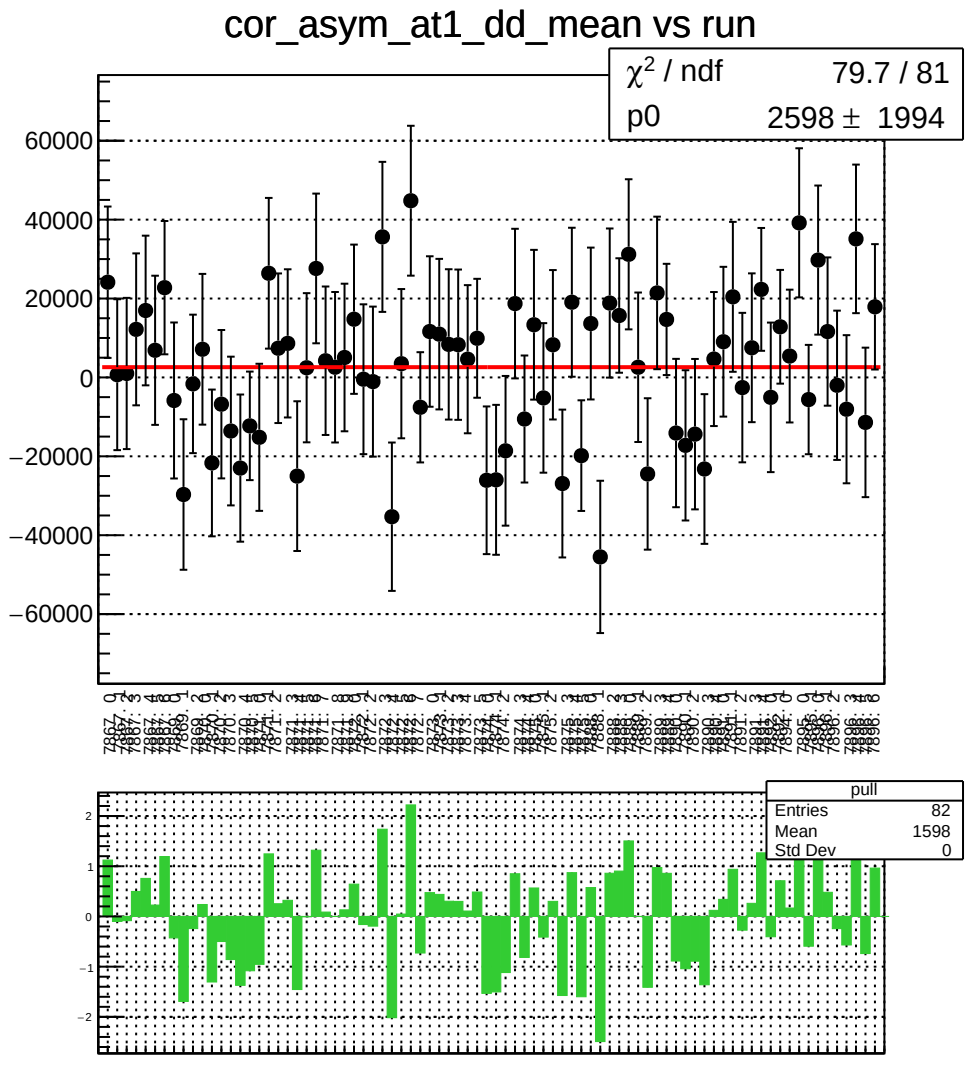

pull1D
Entries 82
Mean 0.001559
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

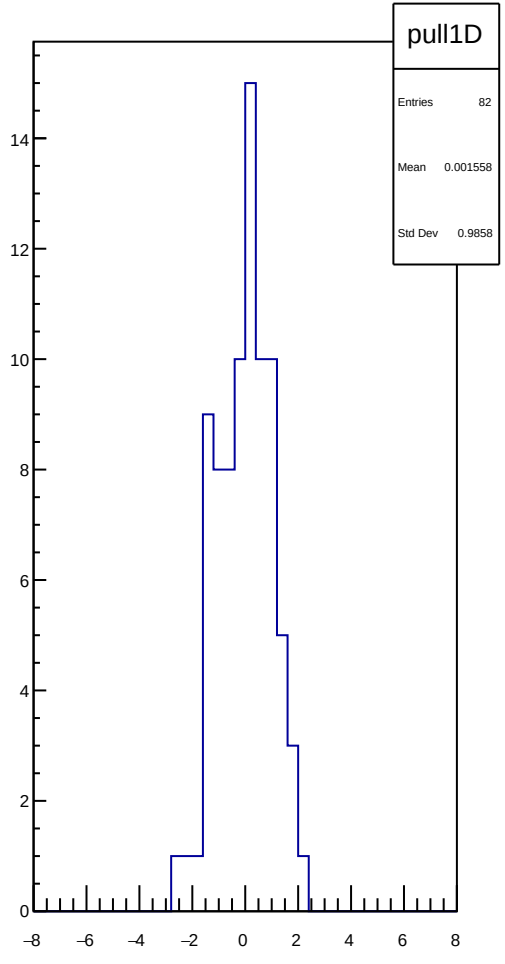

reg_asym_at1_dd_rms vs run
χ² / ndf 146.1 / 81
p0 1801 ± 1.41
1900
1880
1860
1840
1820
1800
1780
1760
1740

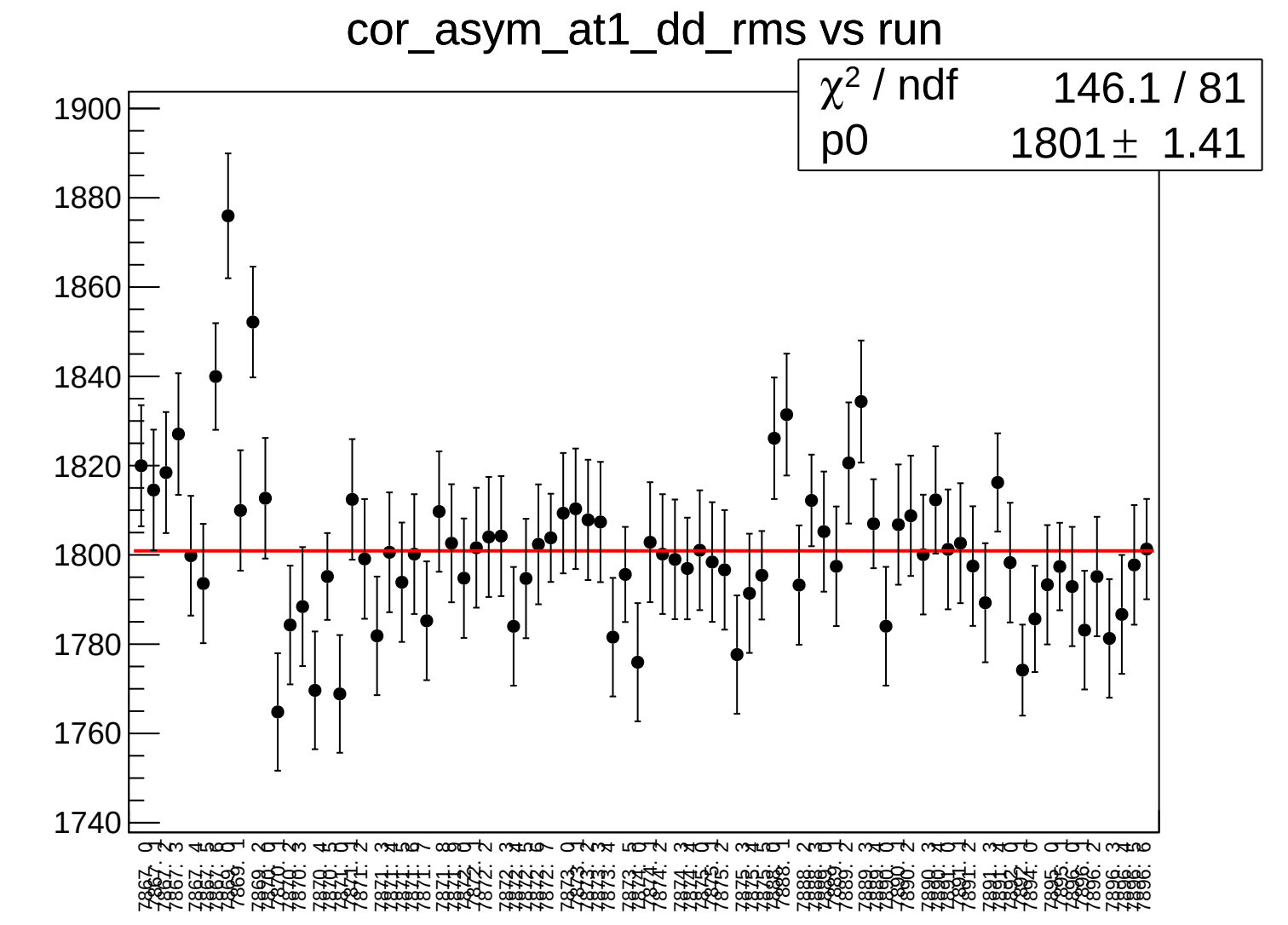

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 70.02 / 81
p0 −971 ± 1084
pull
Entries 82
Mean 330.2
Std Dev 0

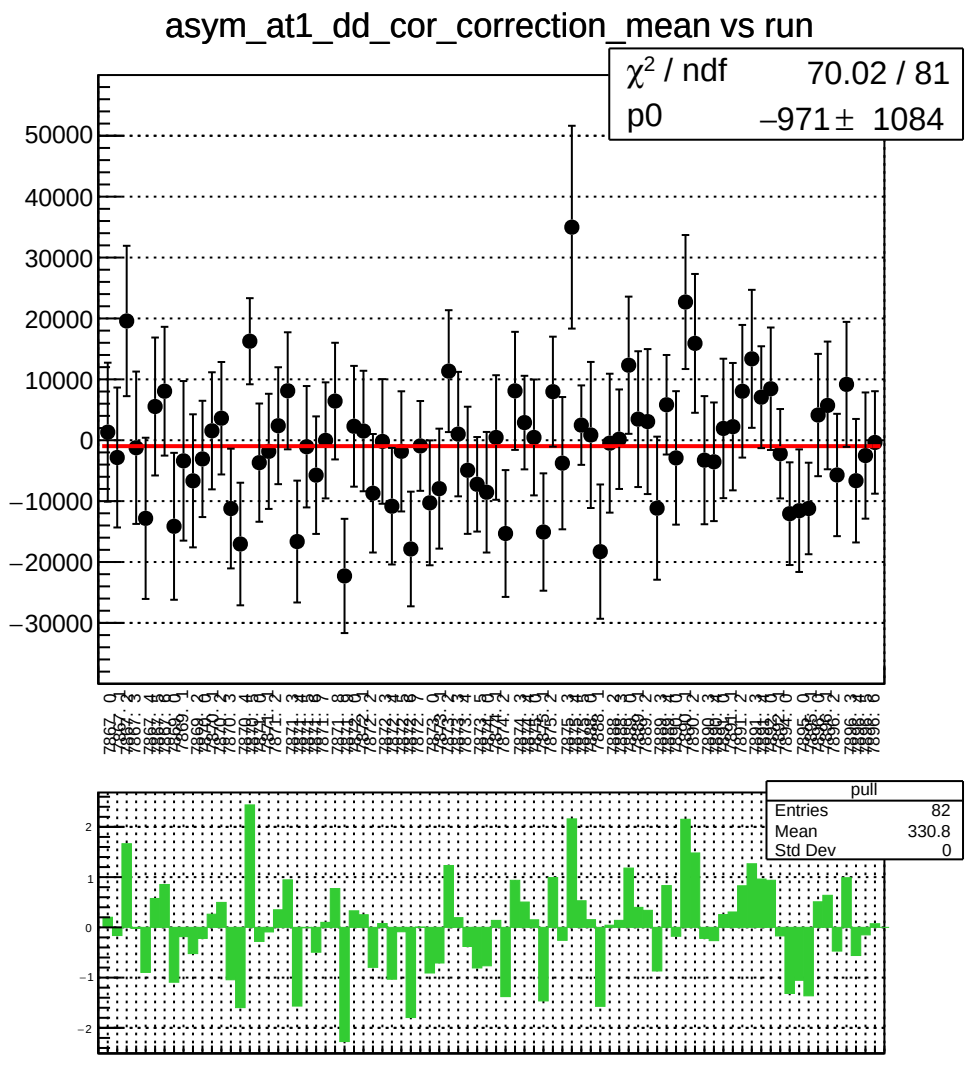

pull1D
Entries 82
Mean 0.007637
Std Dev 0.924

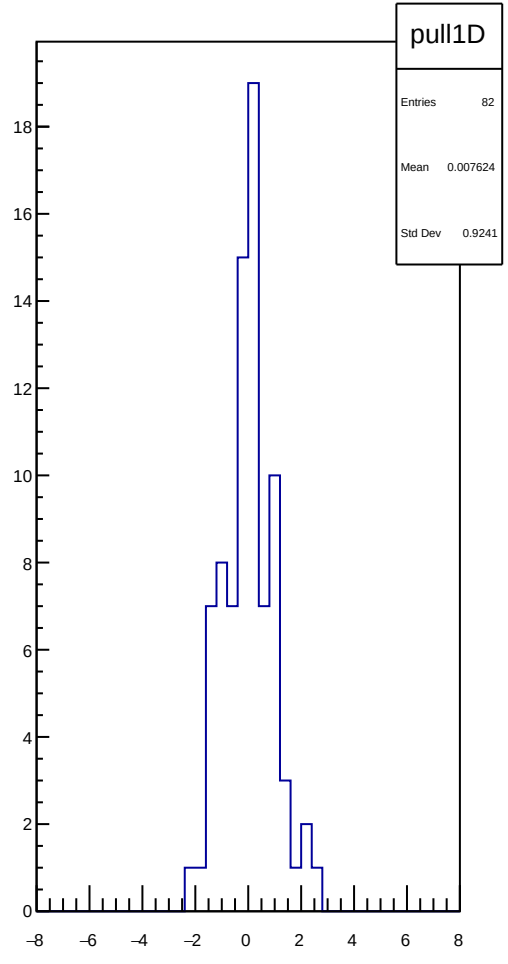

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.444e+04 / 81
p0 974.6 ± 0.7663
1600
1500
1400
1300
1200
1100
1000
900
800

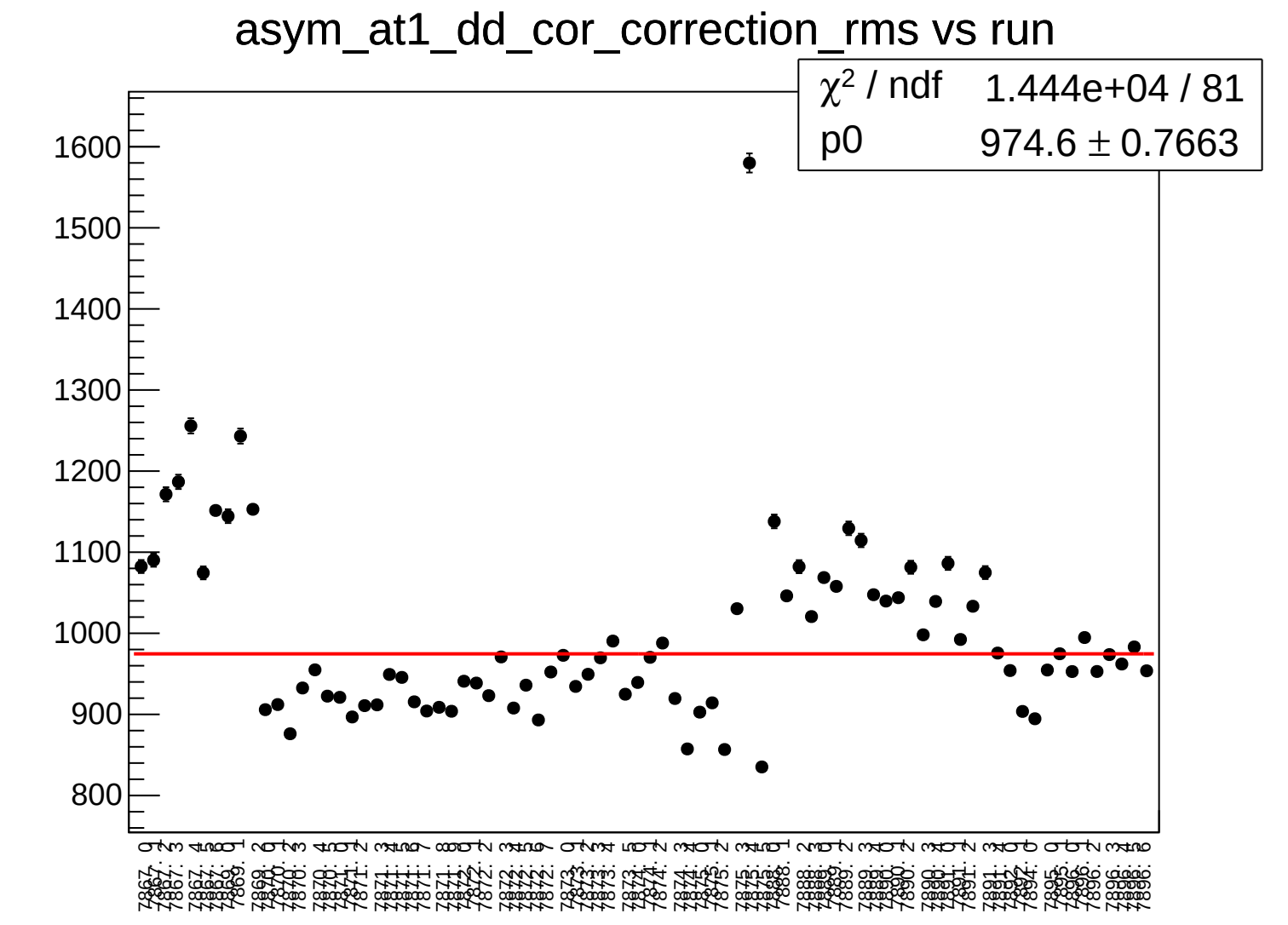

cor_asym_at1_dd_mean vs run
χ² / ndf 79.7 / 81
p0 2598 ± 1994
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1598
Std Dev 0
2
1
0
−1
−2

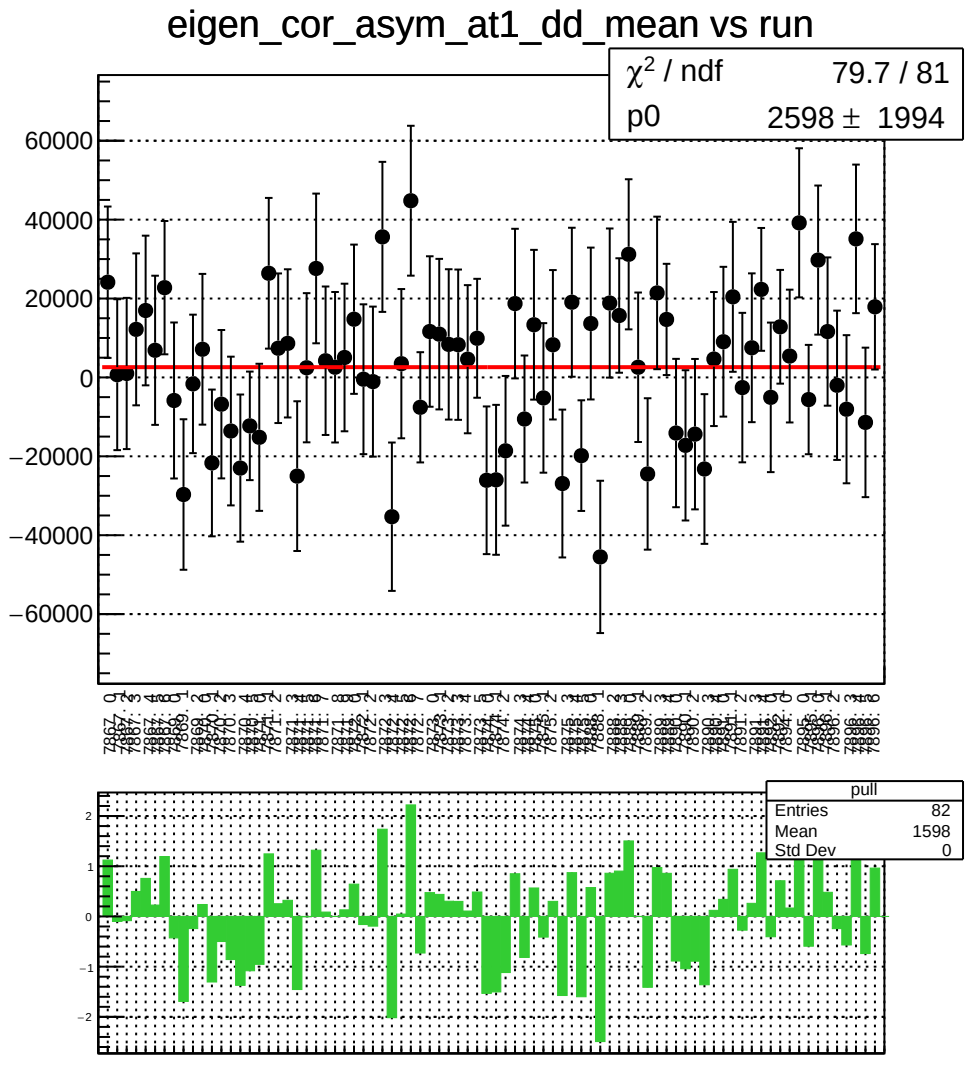

pull1D
Entries 82
Mean 0.001558
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

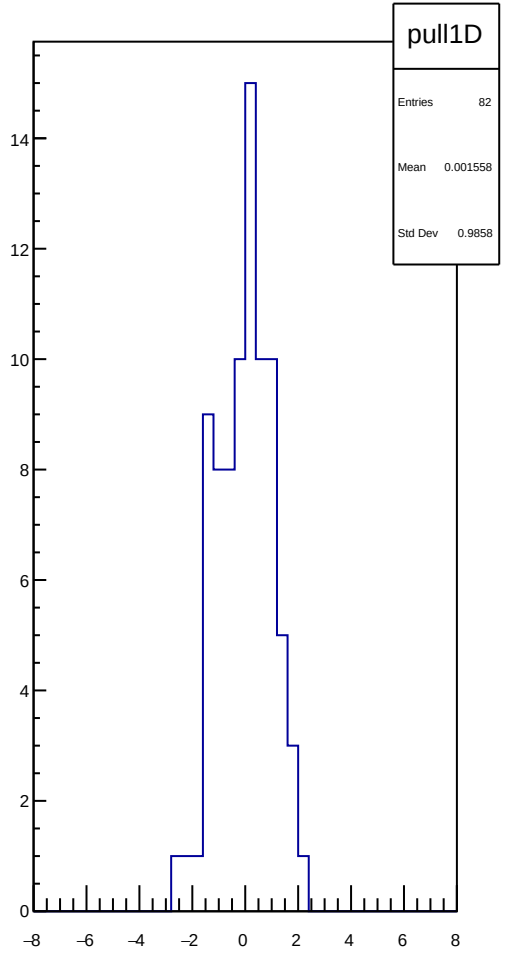

cor_asym_at1_dd_rms vs run
χ² / ndf 146.1 / 81
p0 1801 ± 1.41
1900
1880
1860
1840
1820
1800
1780
1760
1740

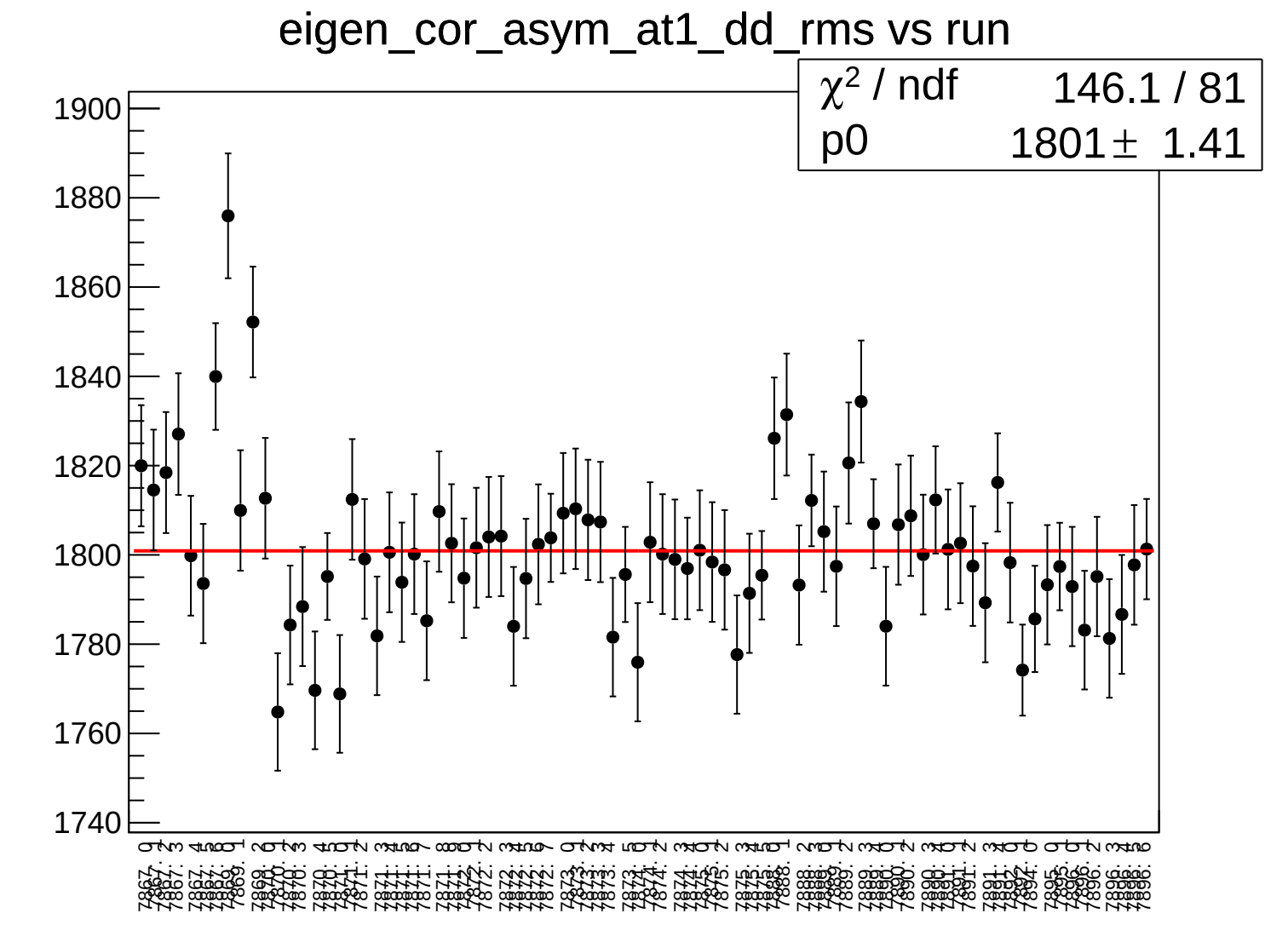

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 70.02 / 81
p0 −971 ± 1084
pull
Entries 82
Mean 330.8
Std Dev 0

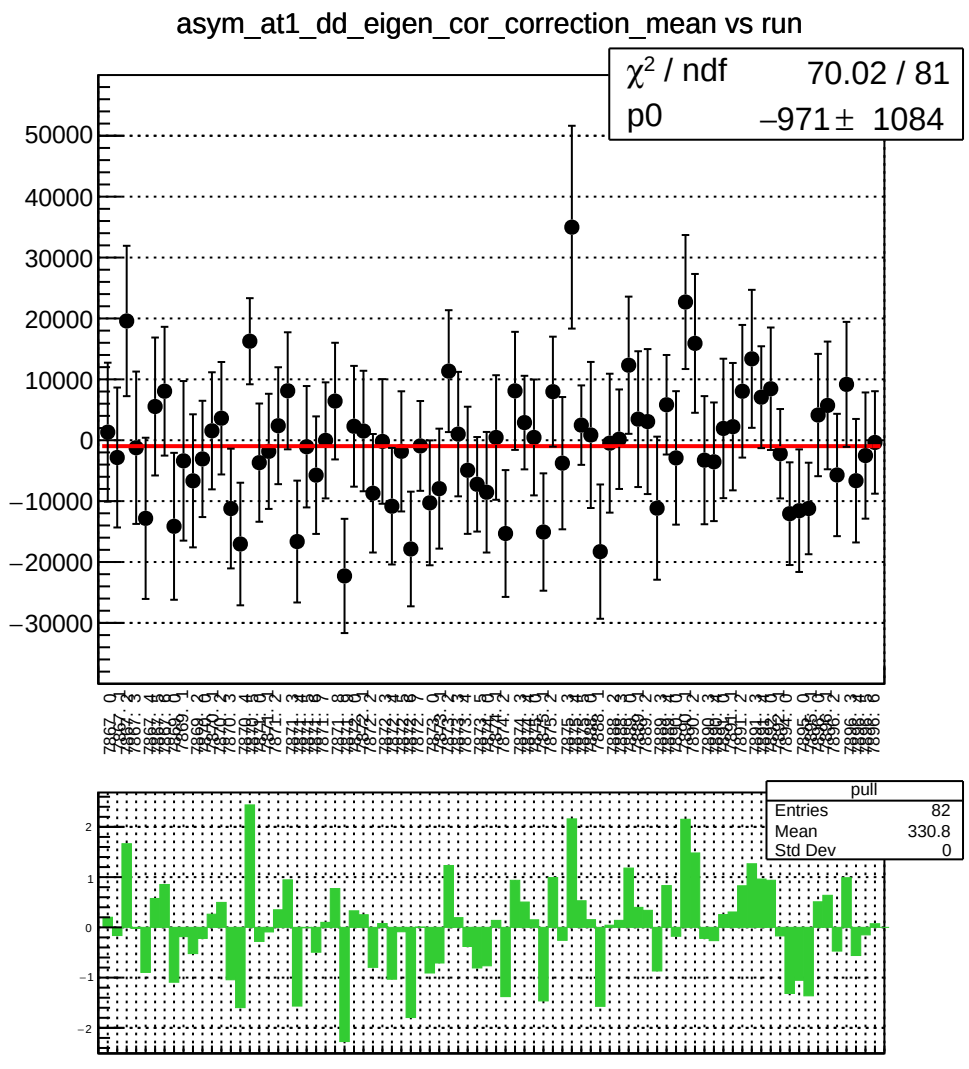

pull1D
Entries 82
Mean 0.007624
Std Dev 0.9241

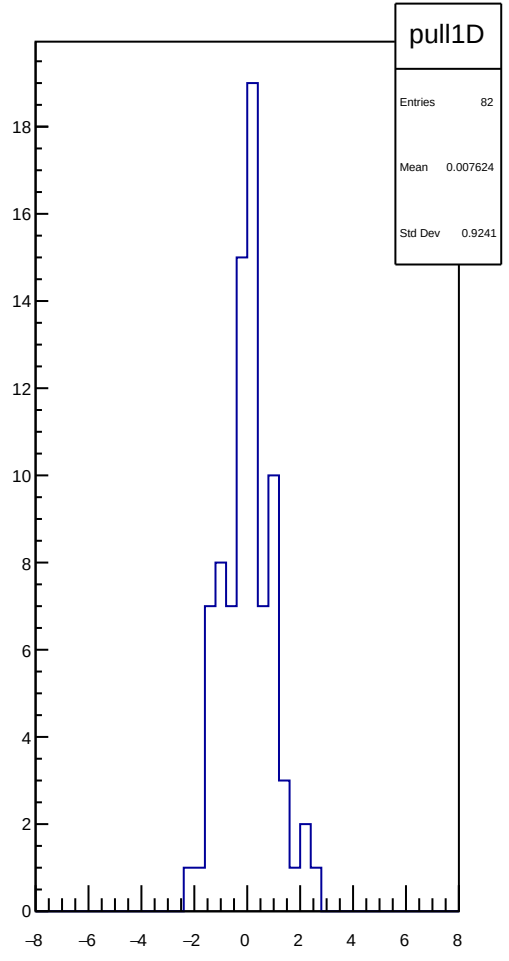

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.444e+04 / 81
p0 974.6 ± 0.7663
1600
1500
1400
1300
1200
1100
1000
900
800

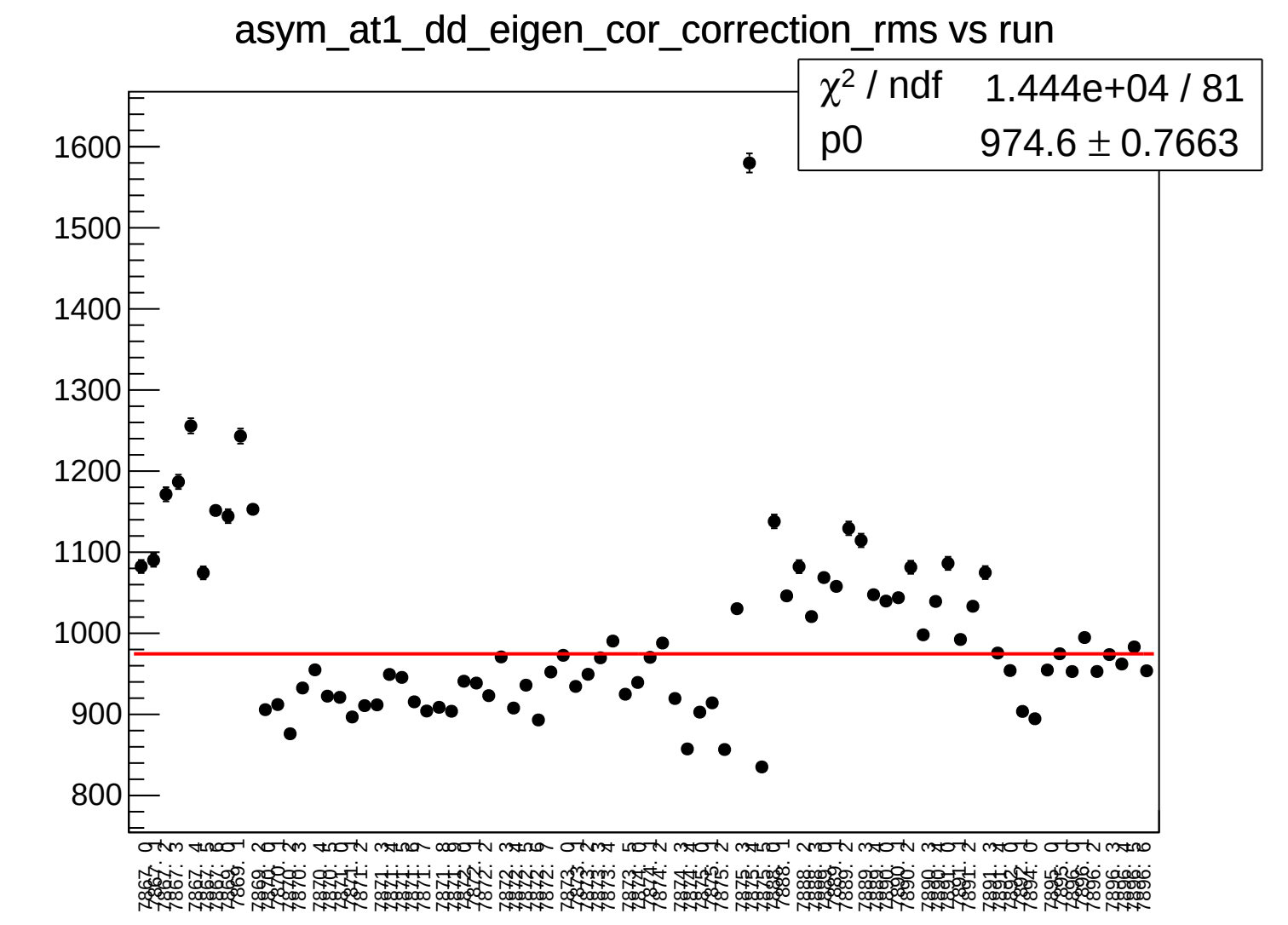

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 79.7 / 81
p0 2598 ± 1994
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1598
Std Dev 0
2
1
0
−1
−2

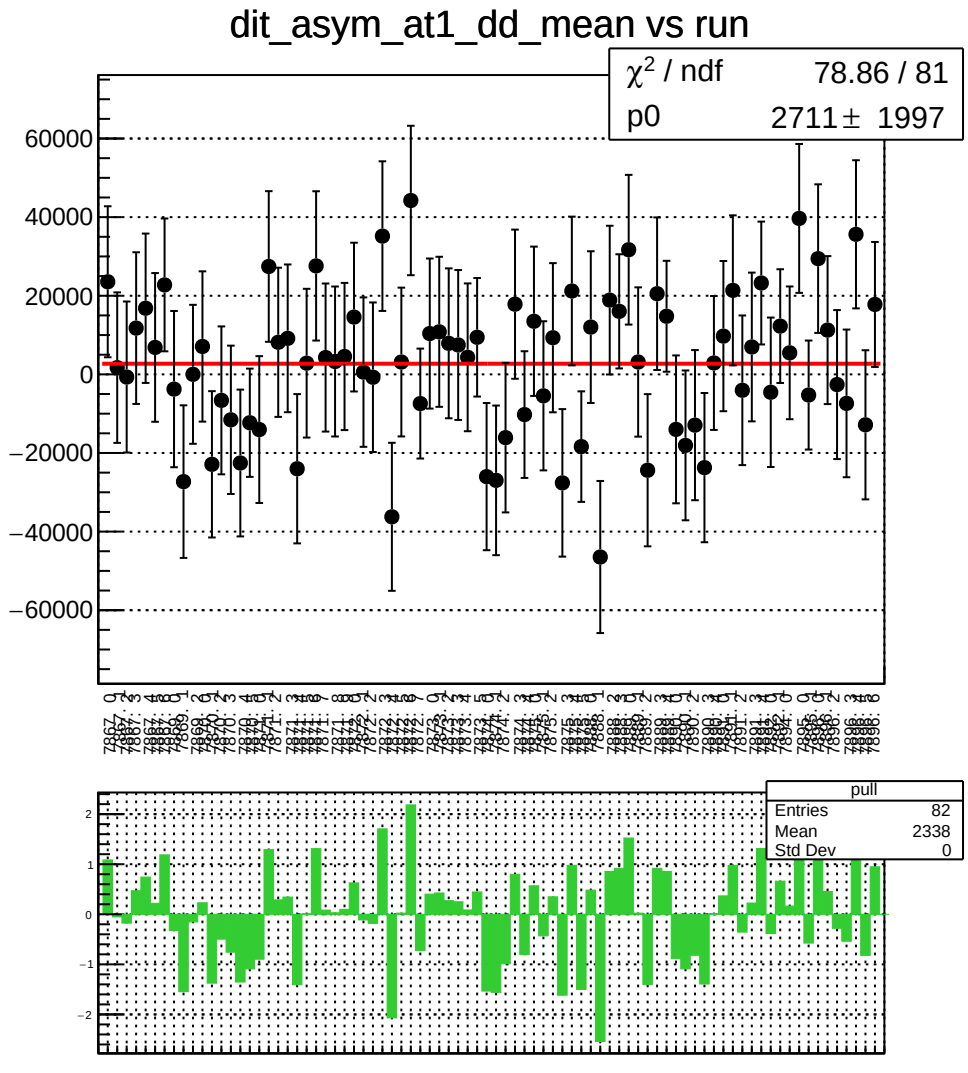

pull1D
Entries 82
Mean 0.001558
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

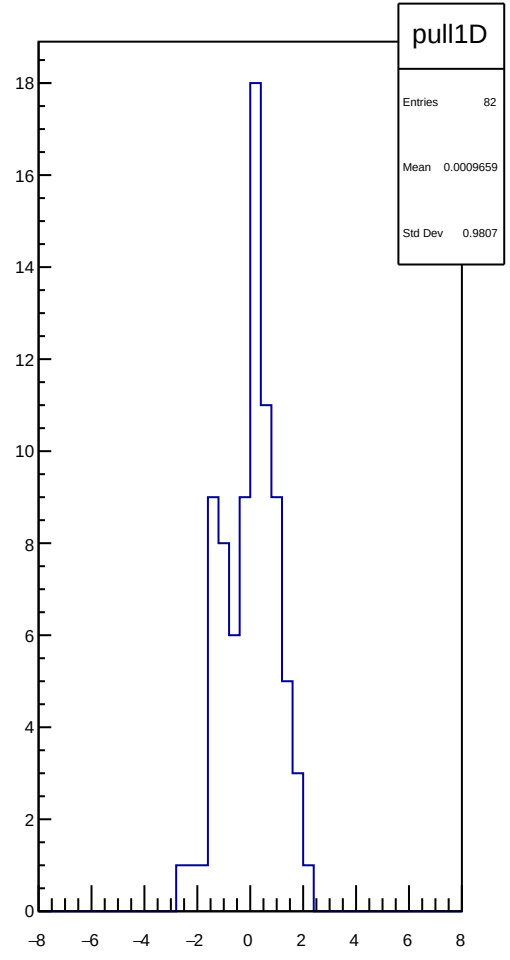

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 146.1 / 81
p0 1801 ± 1.41
1900
1880
1860
1840
1820
1800
1780
1760
1740

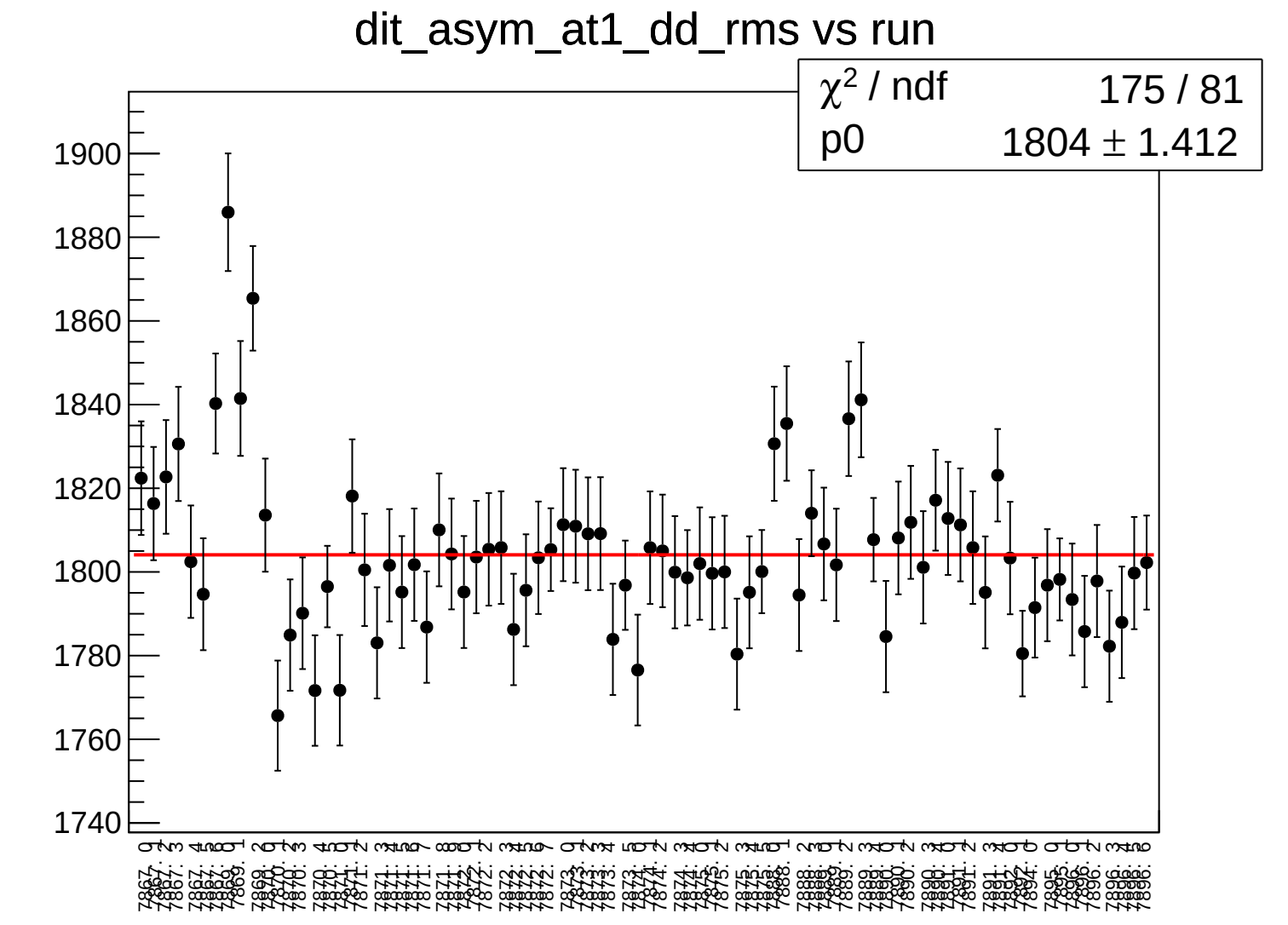

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.02 / 81
p0 −971 ± 1084
pull
Entries 82
Mean 330.8
Std Dev 0

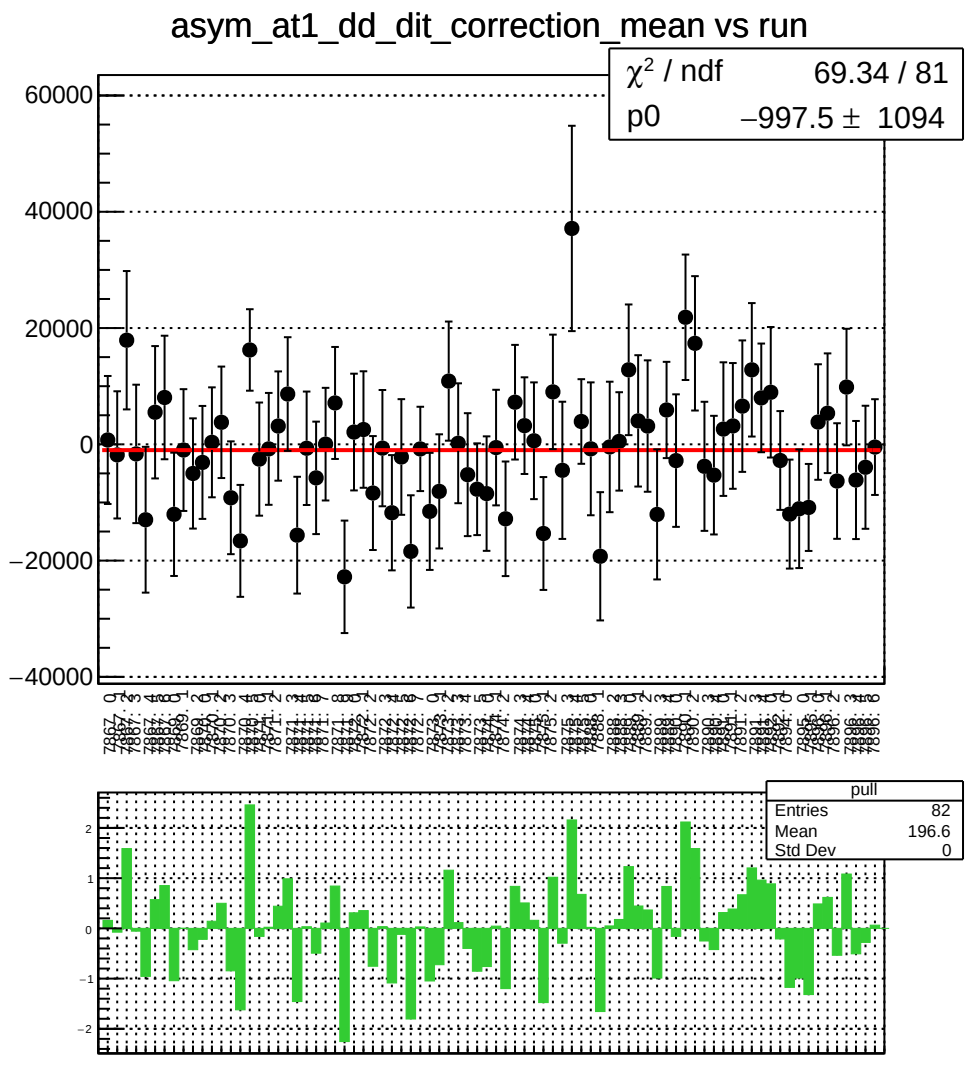

pull1D
Entries 82
Mean 0.007624
Std Dev 0.9241

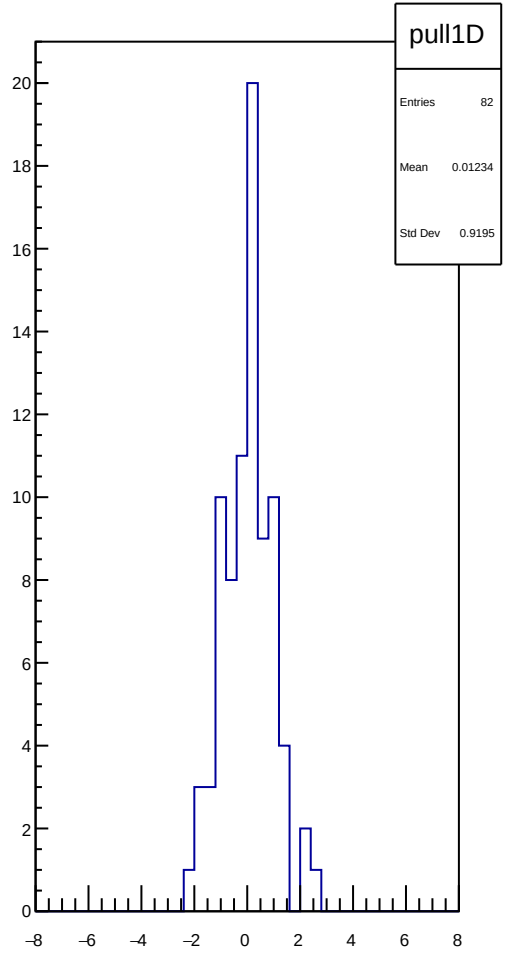

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.444e+04 / 81
p0 974.6 ± 0.7663
1600
1500
1400
1300
1200
1100
1000
900
800

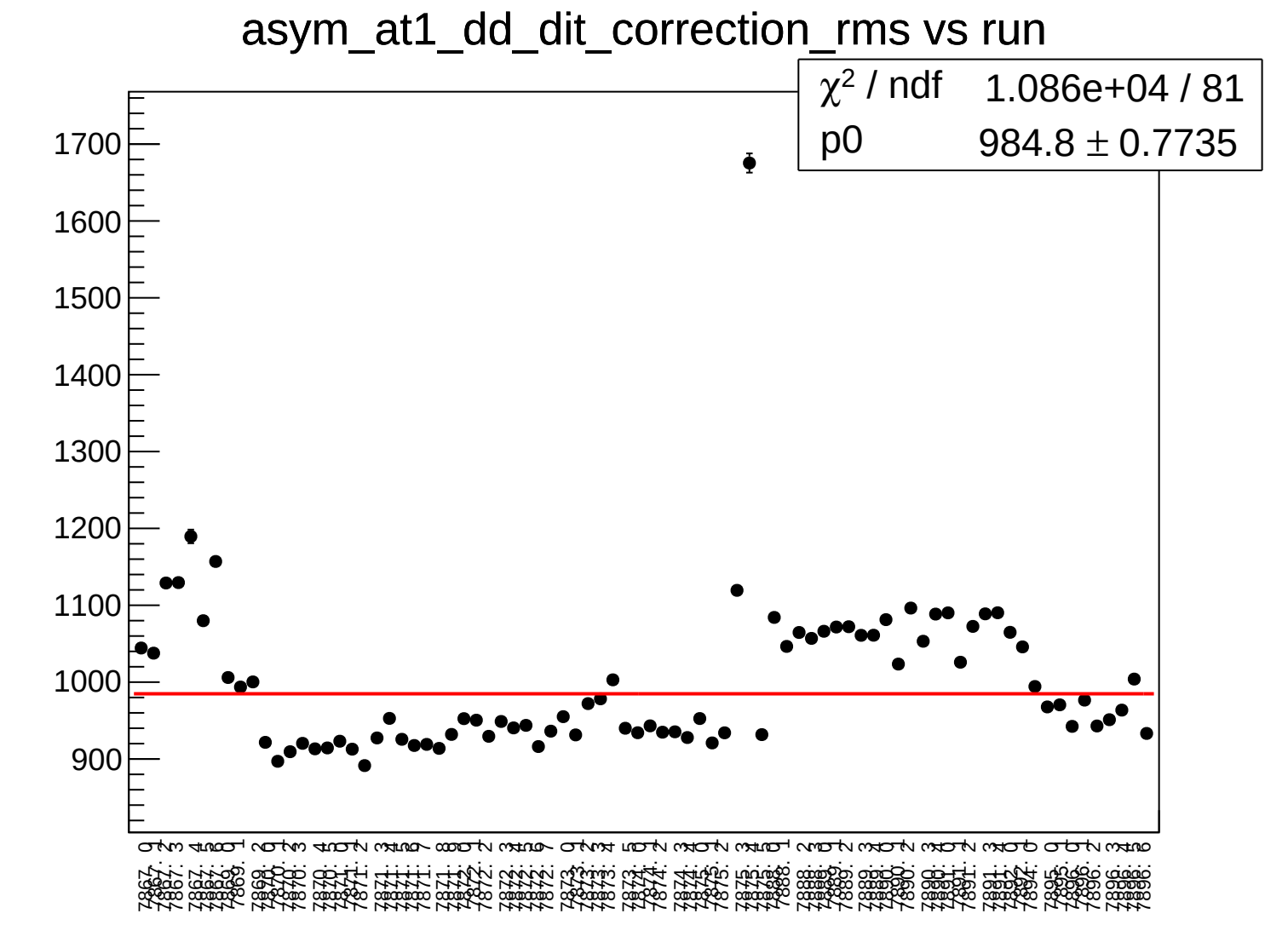

dit_asym_at1_dd_mean vs run
χ² / ndf 78.86 / 81
p0 2711 ± 1997
pull
Entries 82
Mean 2338
Std Dev 0

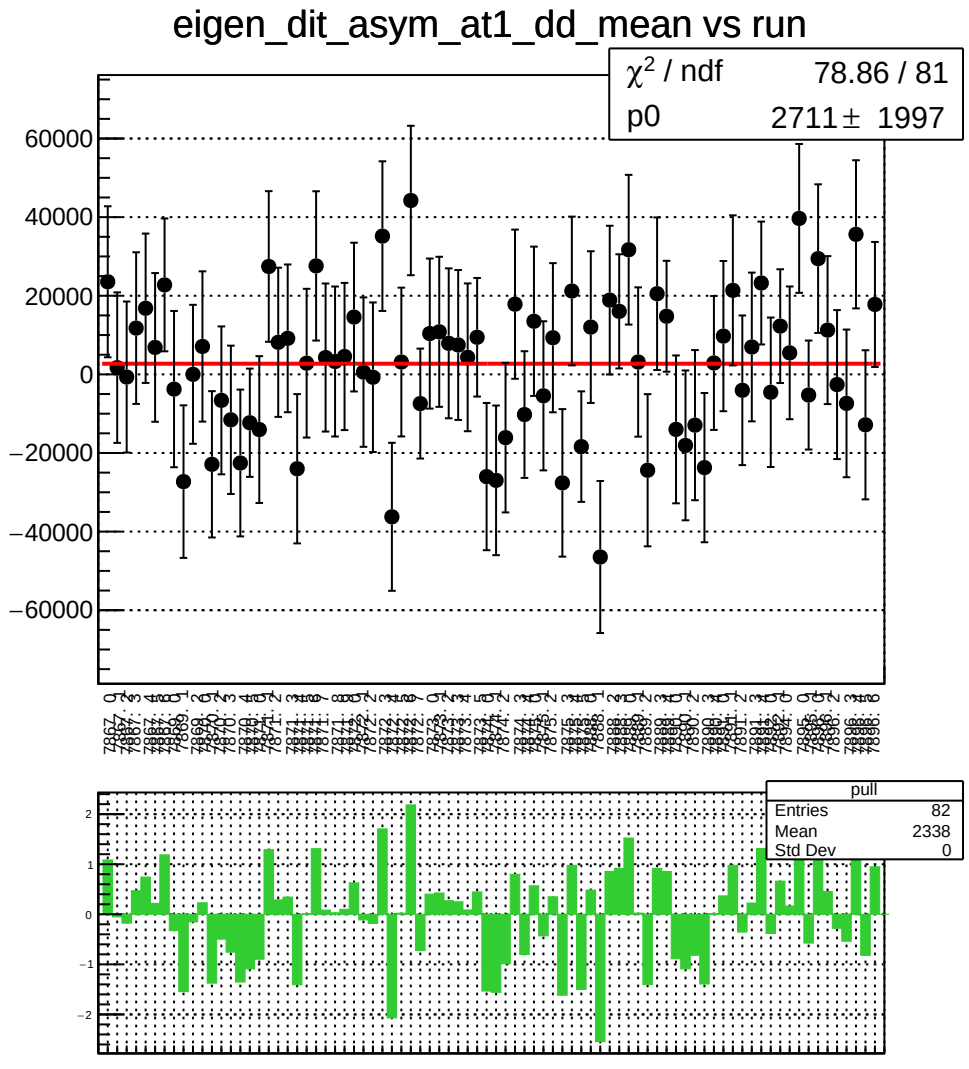

pull1D
Entries 82
Mean 0.0009659
Std Dev 0.9807

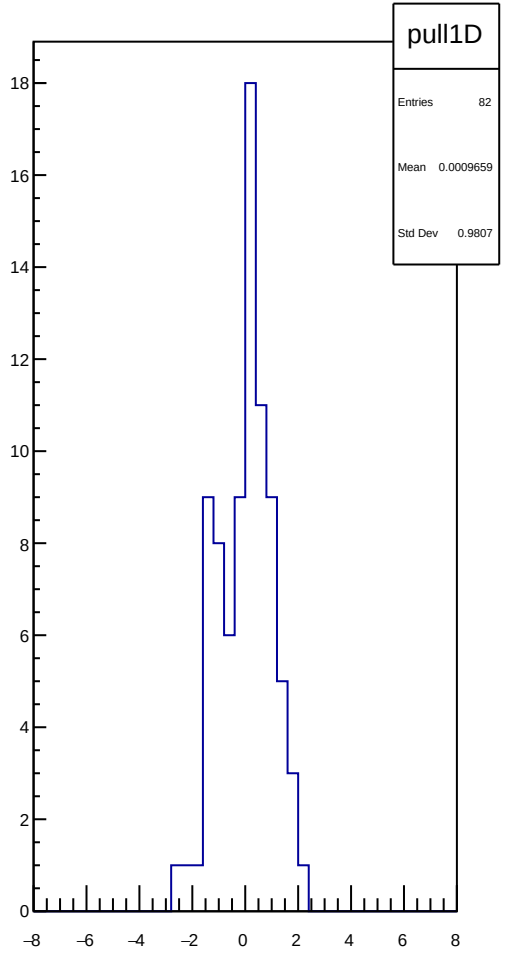

dit_asym_at1_dd_rms vs run
χ² / ndf 175 / 81
p0 1804 ± 1.412
1900
1880
1860
1840
1820
1800
1780
1760
1740

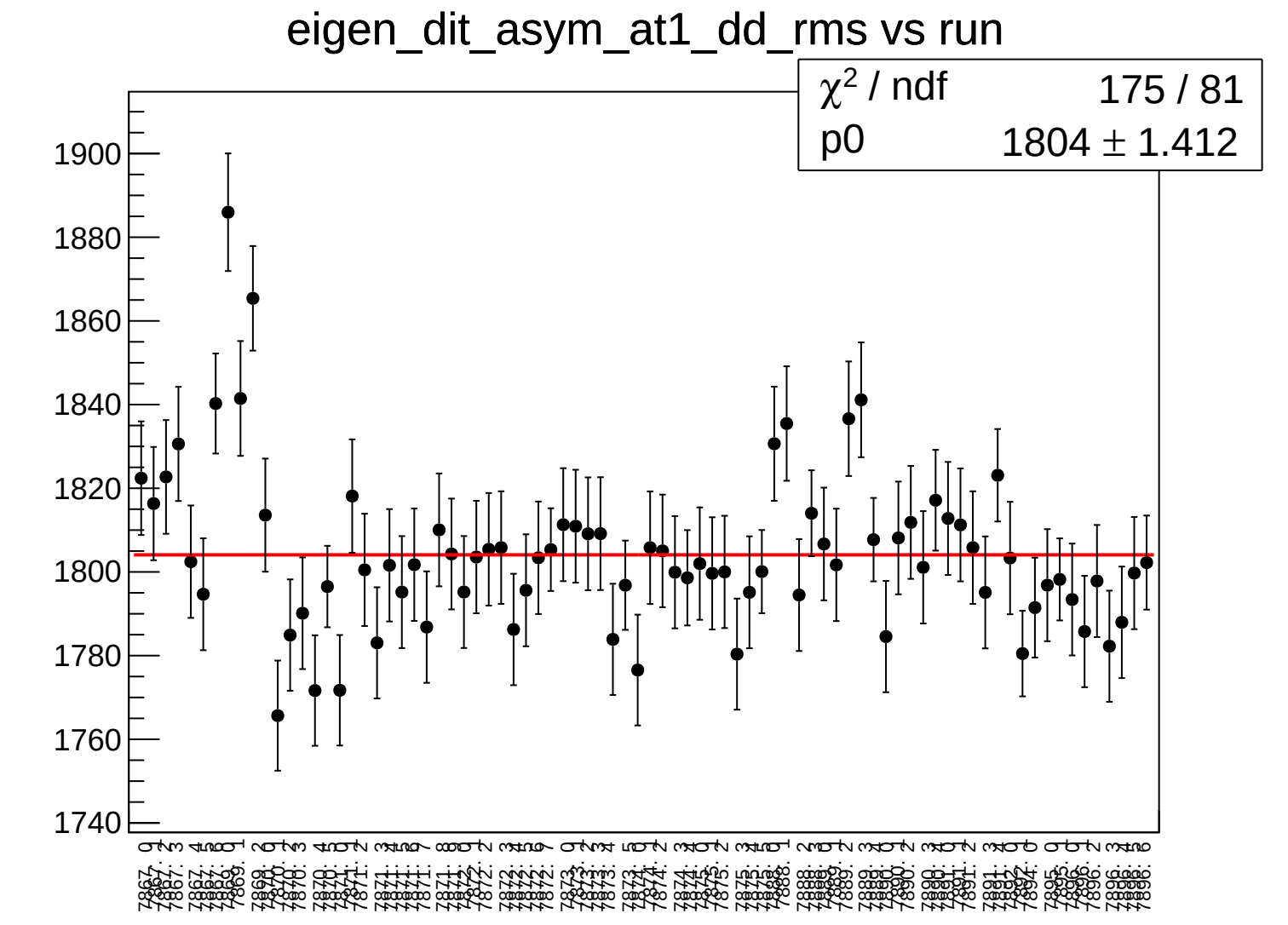

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 69.34 / 81
p0 −997.5 ± 1094
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 196.6
Std Dev 0
2
1
0
−1
−2

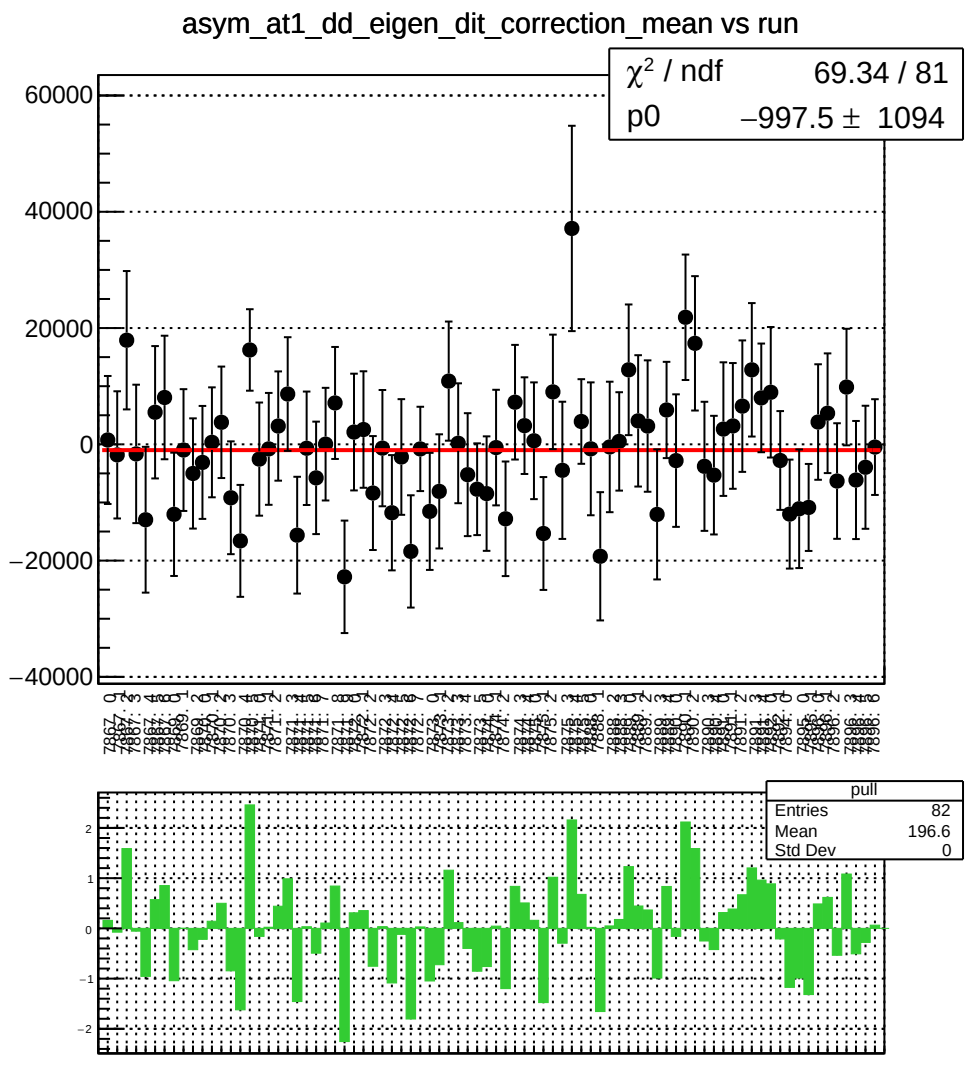

pull1D
Entries 82
Mean 0.01234
Std Dev 0.9195
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

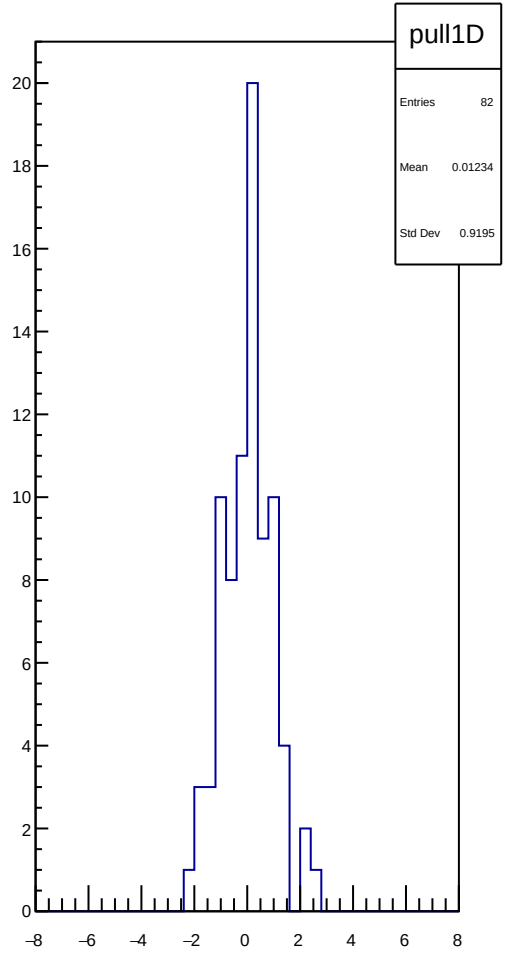

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.086e+04 / 81
p0 984.8 ± 0.7735
1700
1600
1500
1400
1300
1200
1100
1000
900

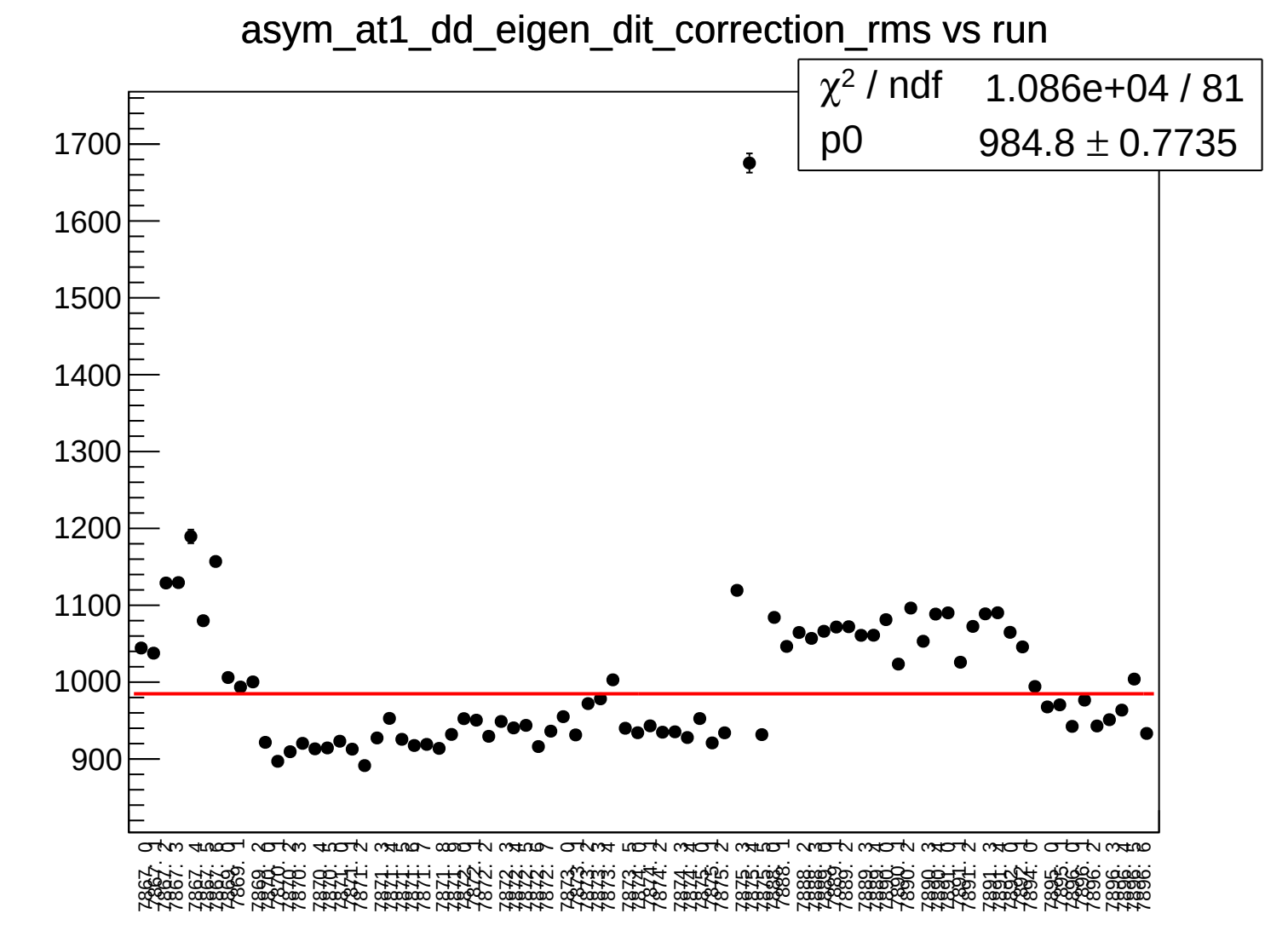

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 78.86 / 81
p0 2711 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 2338
Std Dev 0
2
1
0
−1
−2

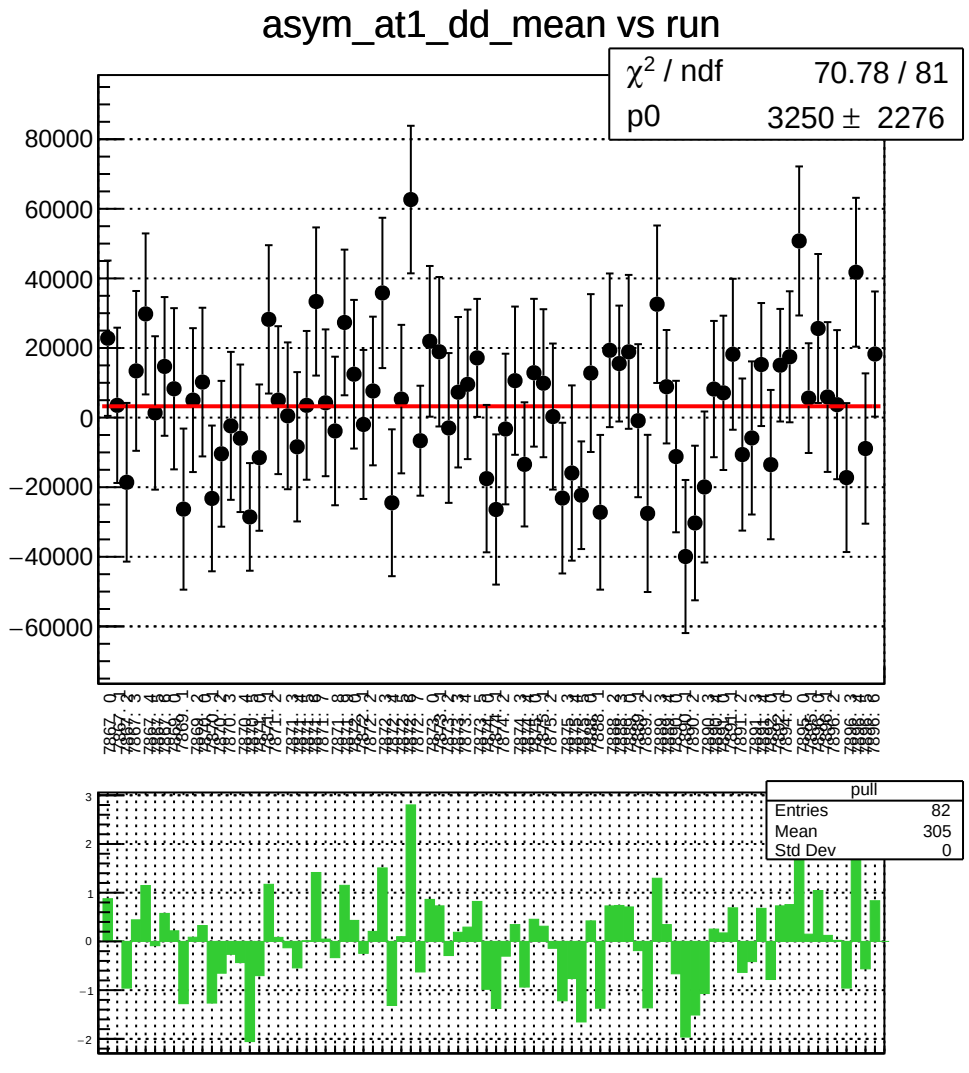

pull1D
Entries 82
Mean 0.0009659
Std Dev 0.9807
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

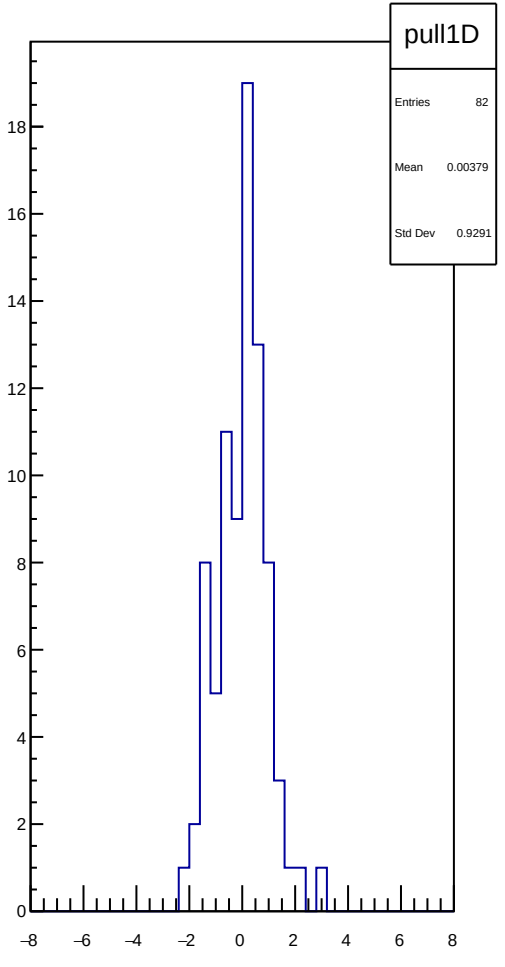

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 175 / 81
p0 1804 ± 1.412
1900
1880
1860
1840
1820
1800
1780
1760
1740

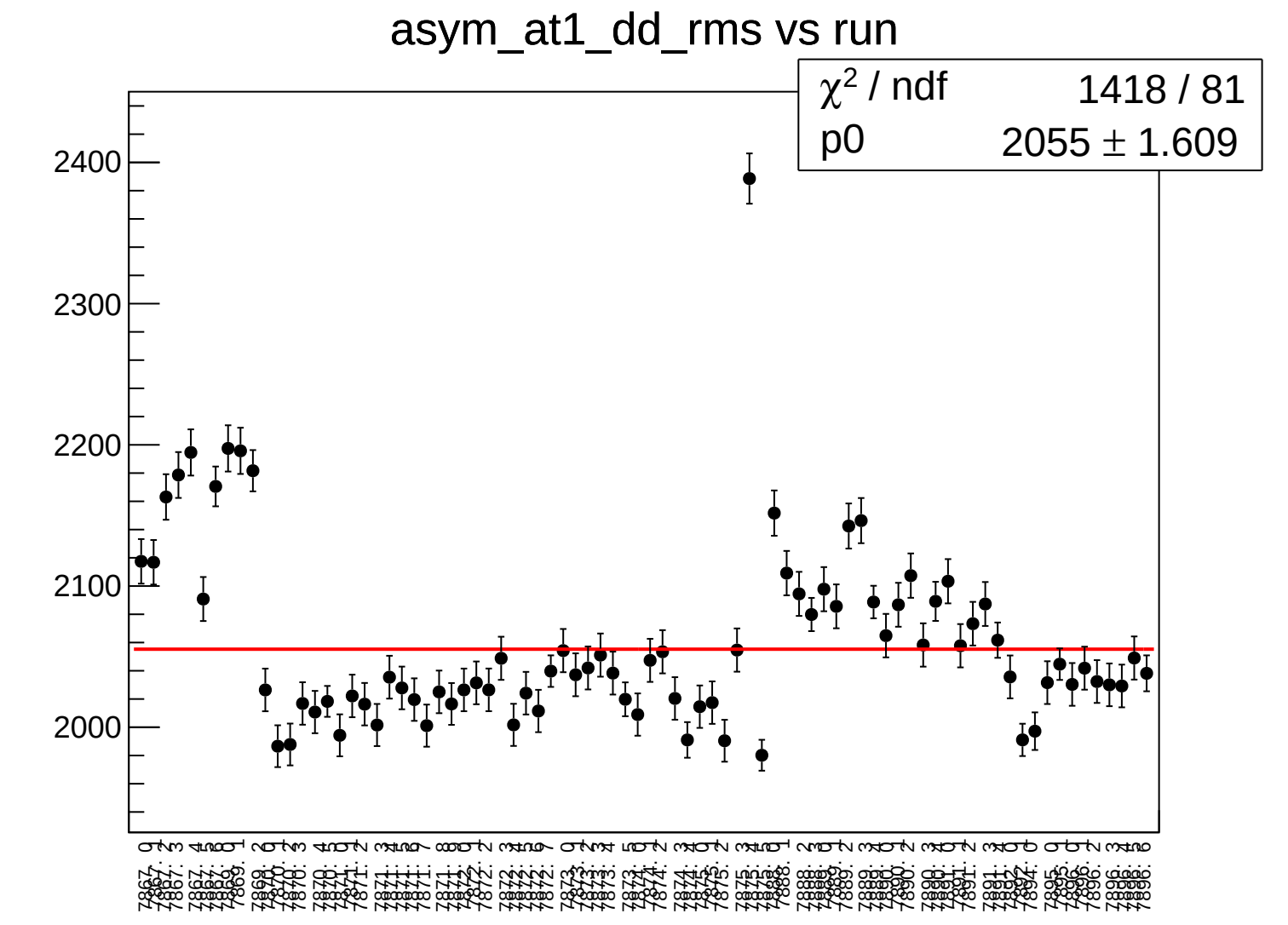

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.34 / 81
p0 −997.5 ± 1094
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 196.6
Std Dev 0
2
1
0
−1
−2

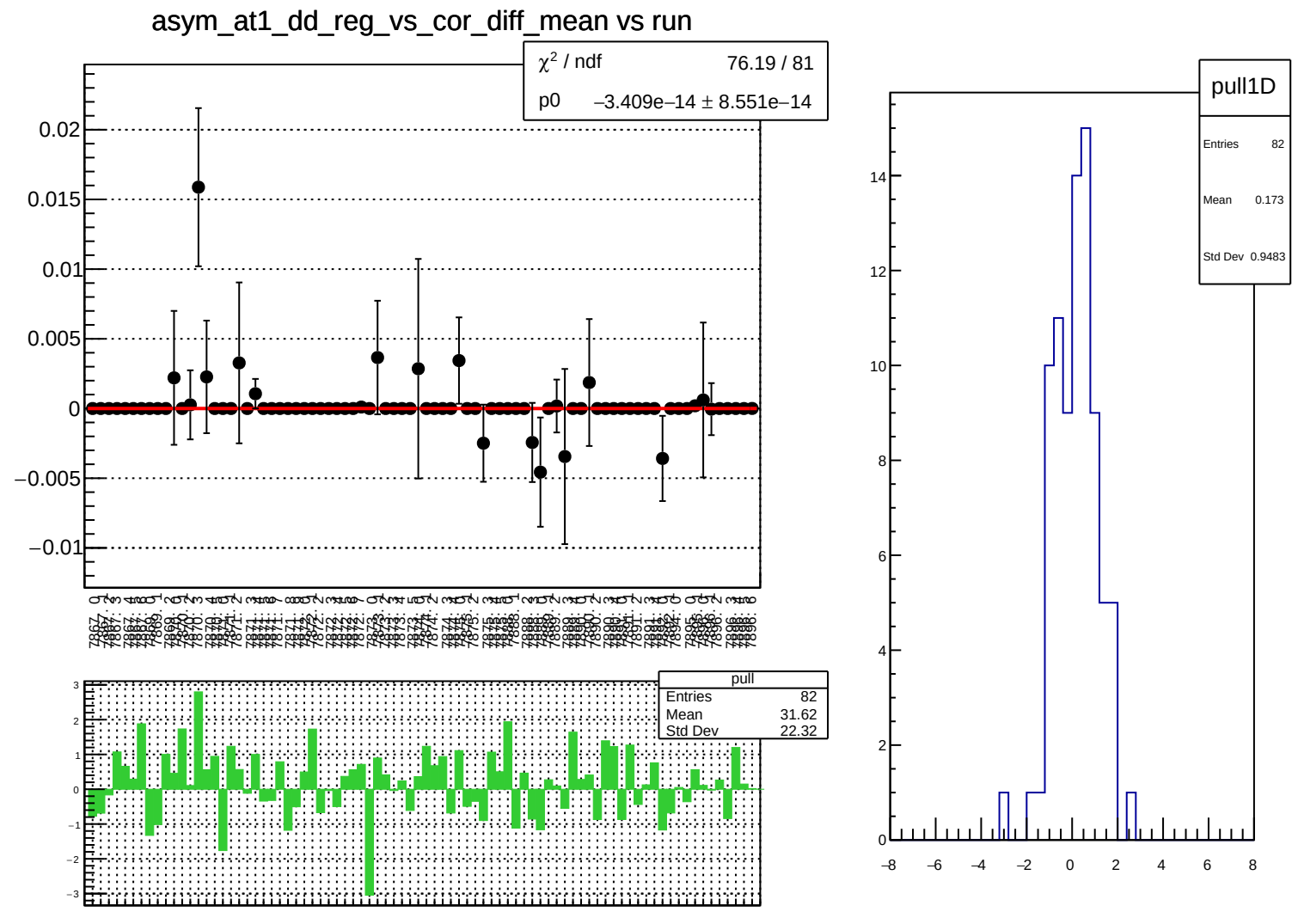

pull1D
Entries 82
Mean 0.01234
Std Dev 0.9195
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

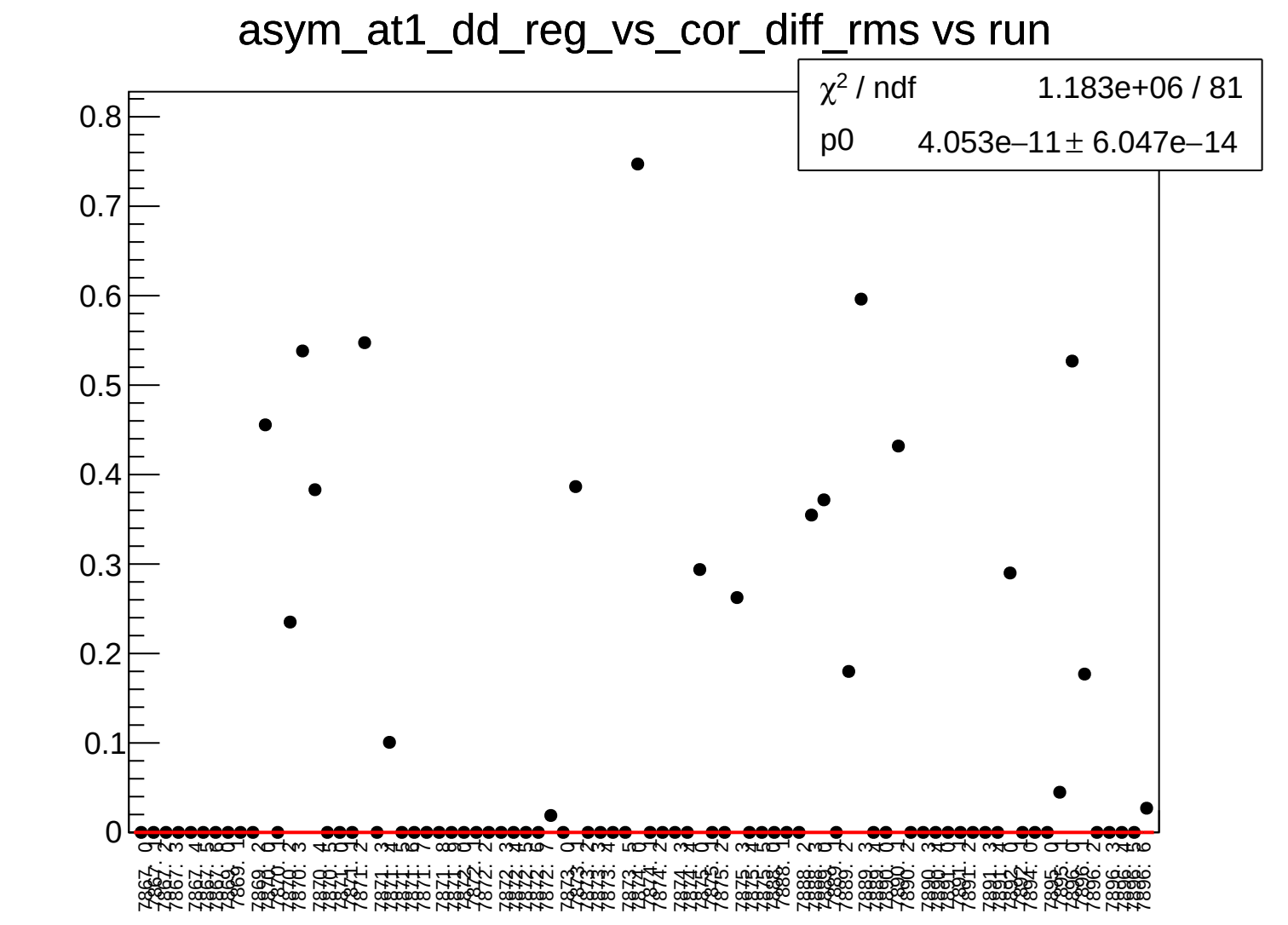

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.086e+04 / 81
p0 984.8 ± 0.7735
1700
1600
1500
1400
1300
1200
1100
1000
900

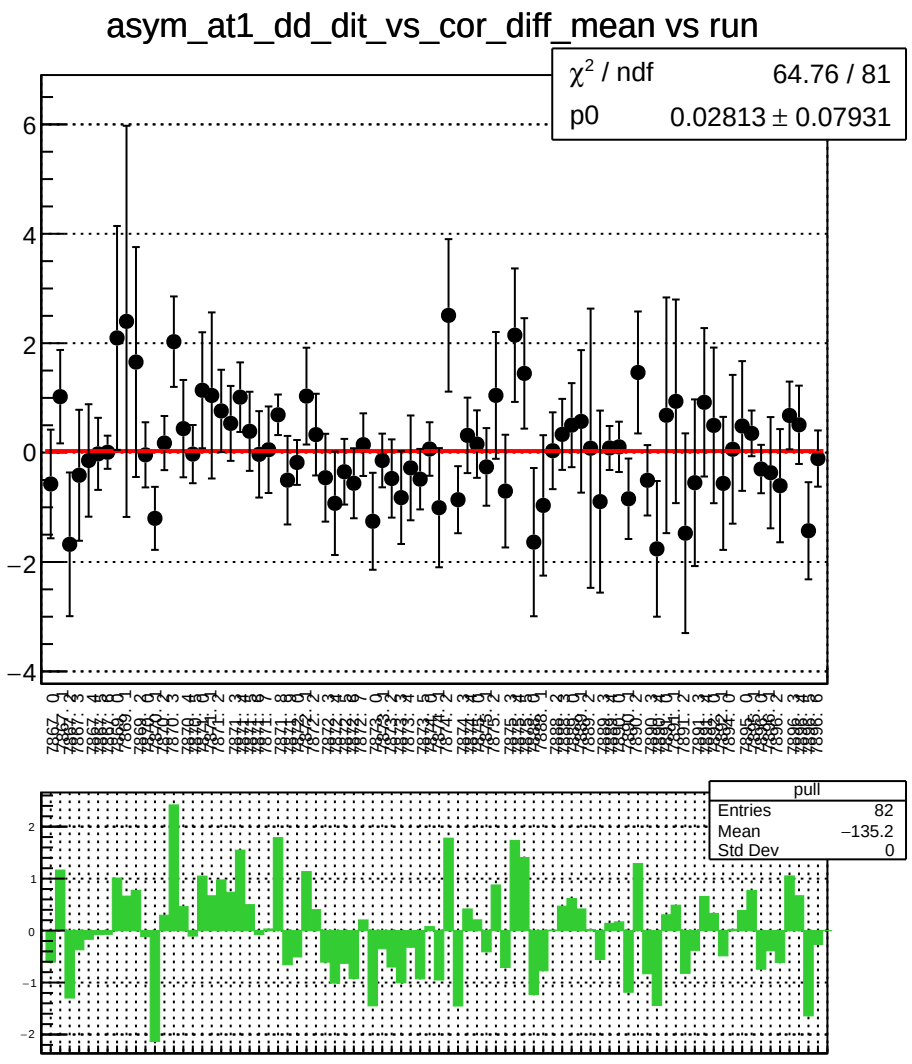

asym_at1_dd_mean vs run
χ² / ndf 70.78 / 81
p0 3250 ± 2276
pull
Entries 82
Mean 305
Std Dev 0

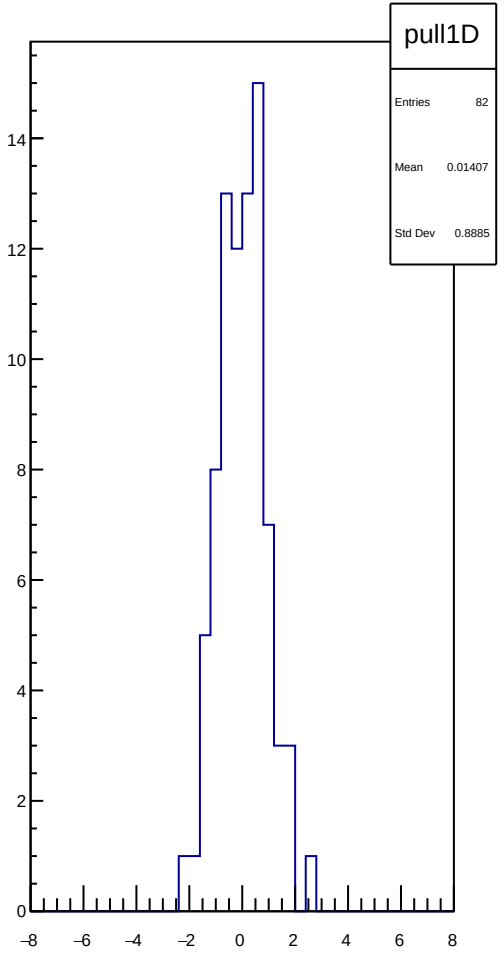

pull1D
Entries 82
Mean 0.00379
Std Dev 0.9291

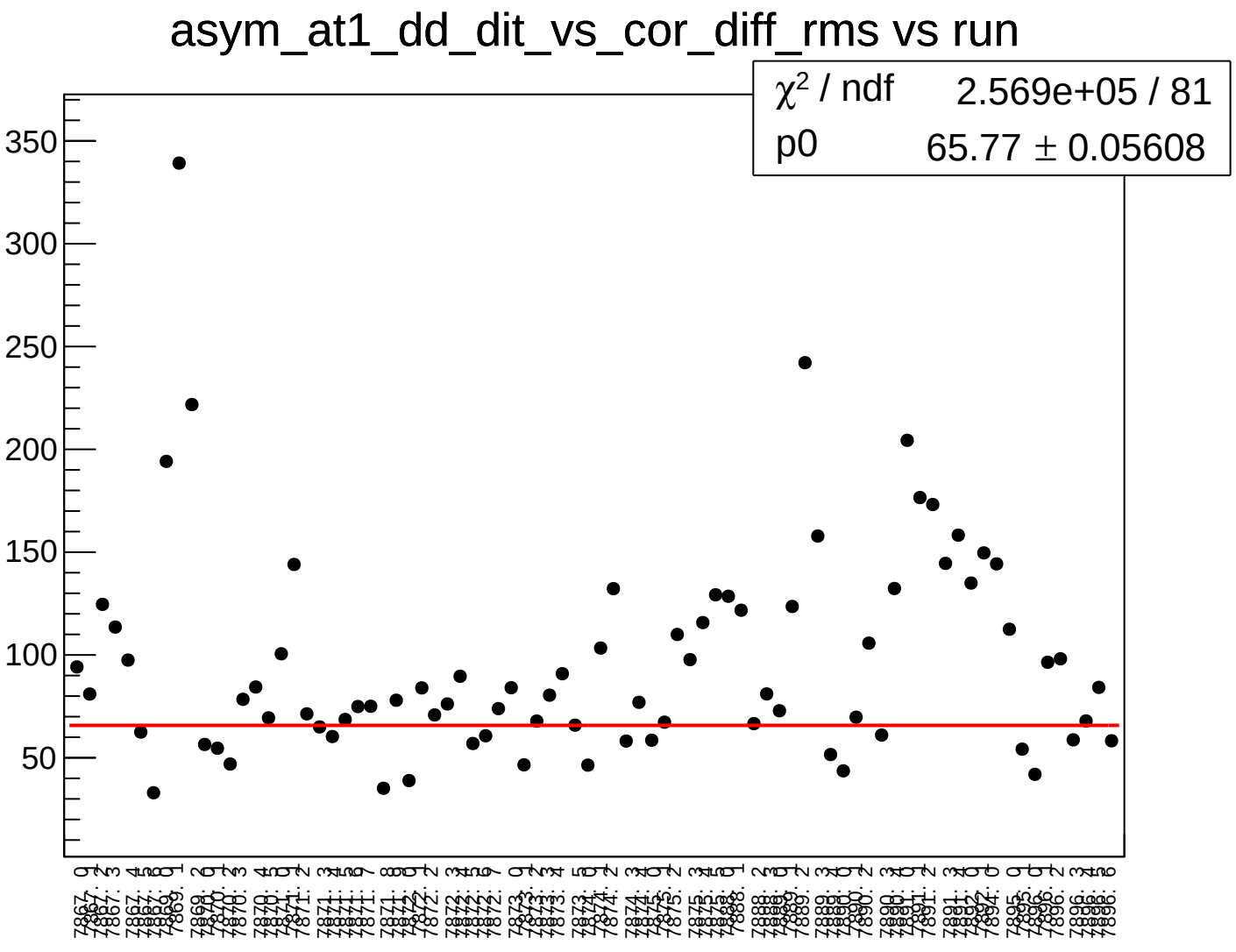

asym_at1_dd_rms vs run
χ² / ndf 1418 / 81
p0 2055 ± 1.609
2400
2300
2200
2100
2000

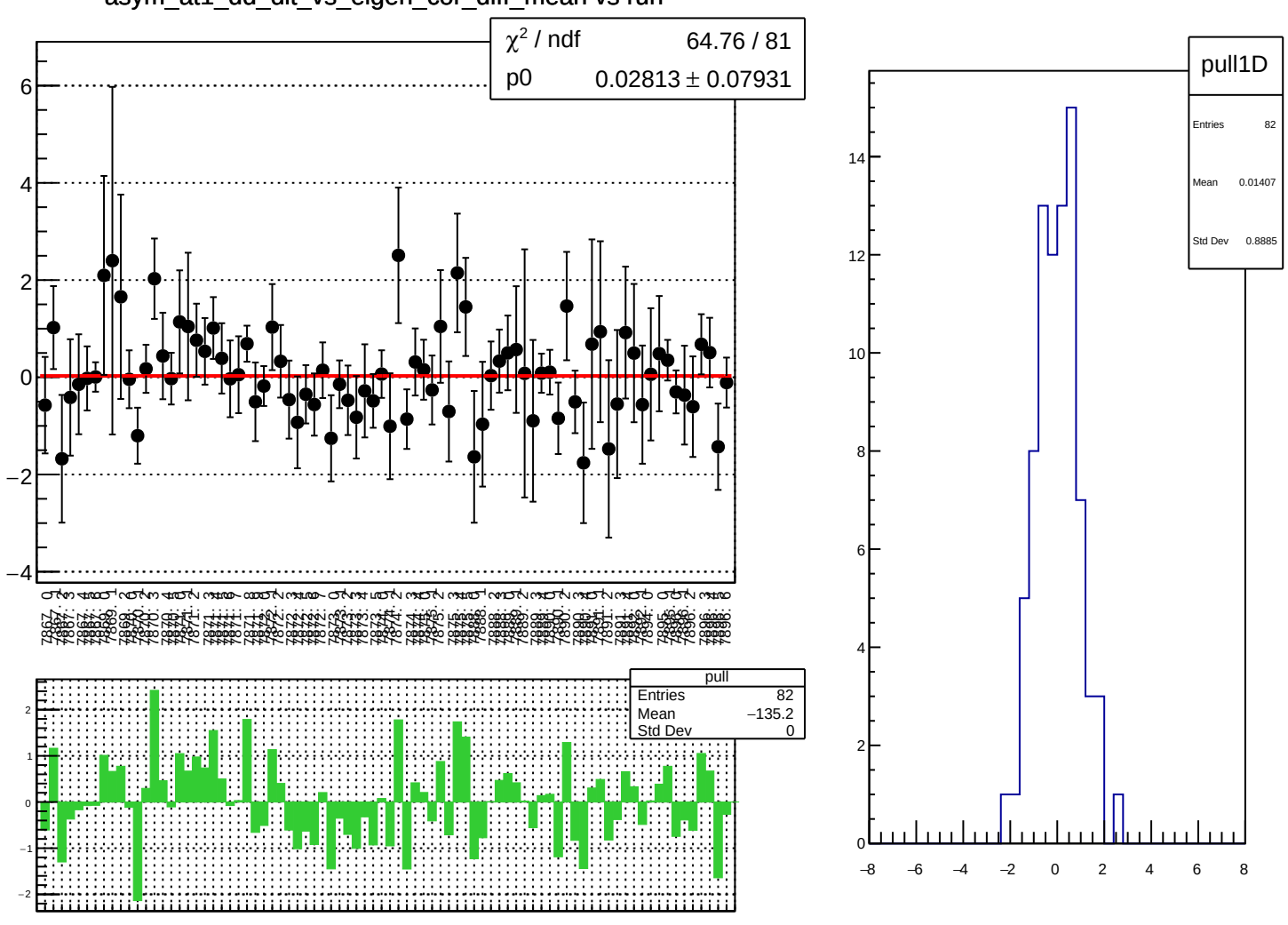

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.19 / 81
p0 −3.409e−14 ± 8.551e−14
pull
Entries 82
Mean 31.62
Std Dev 22.32
pull1D
Entries 82
Mean 0.173
Std Dev 0.9483

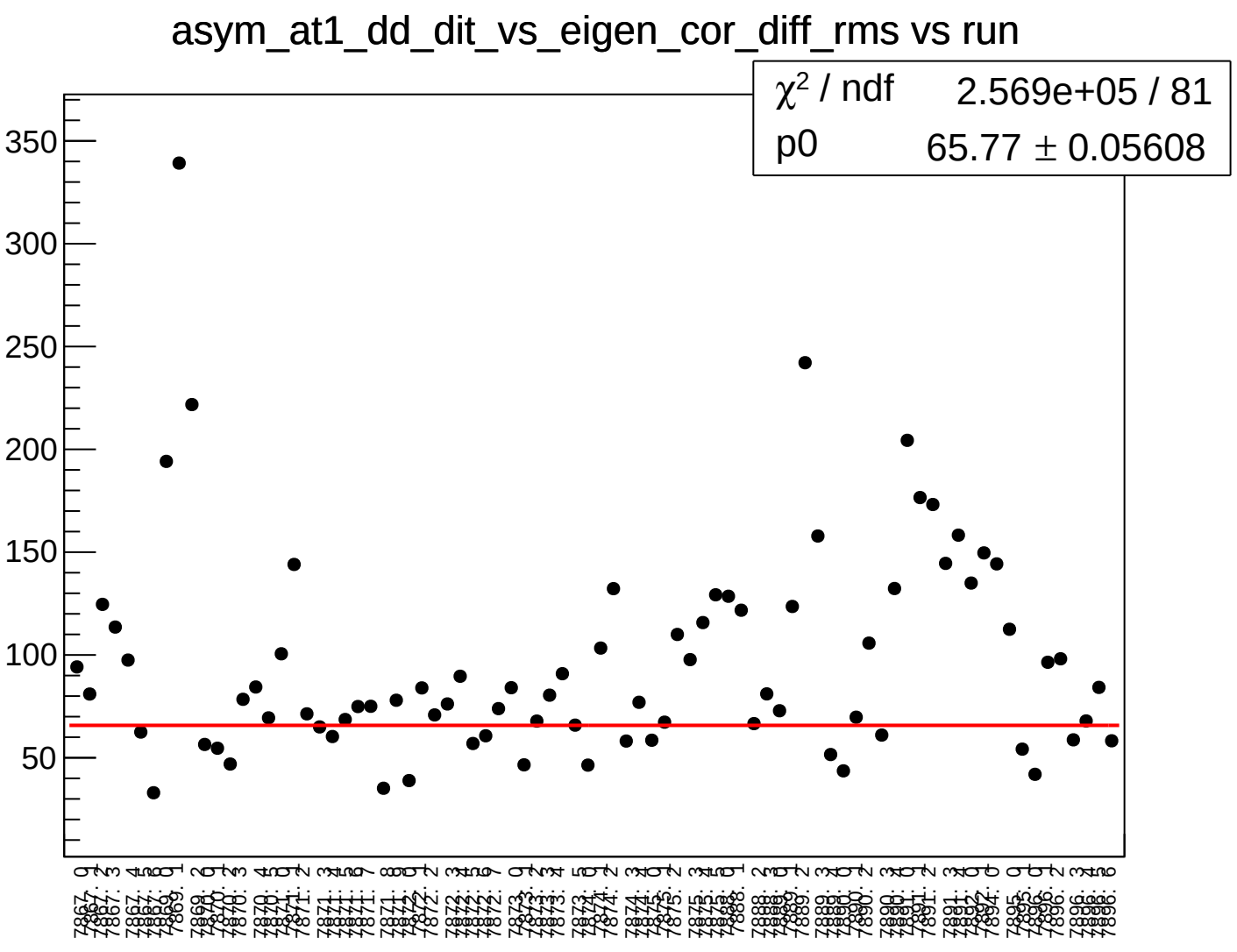

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.183e+06 / 81
p0 4.053e−11 ± 6.047e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

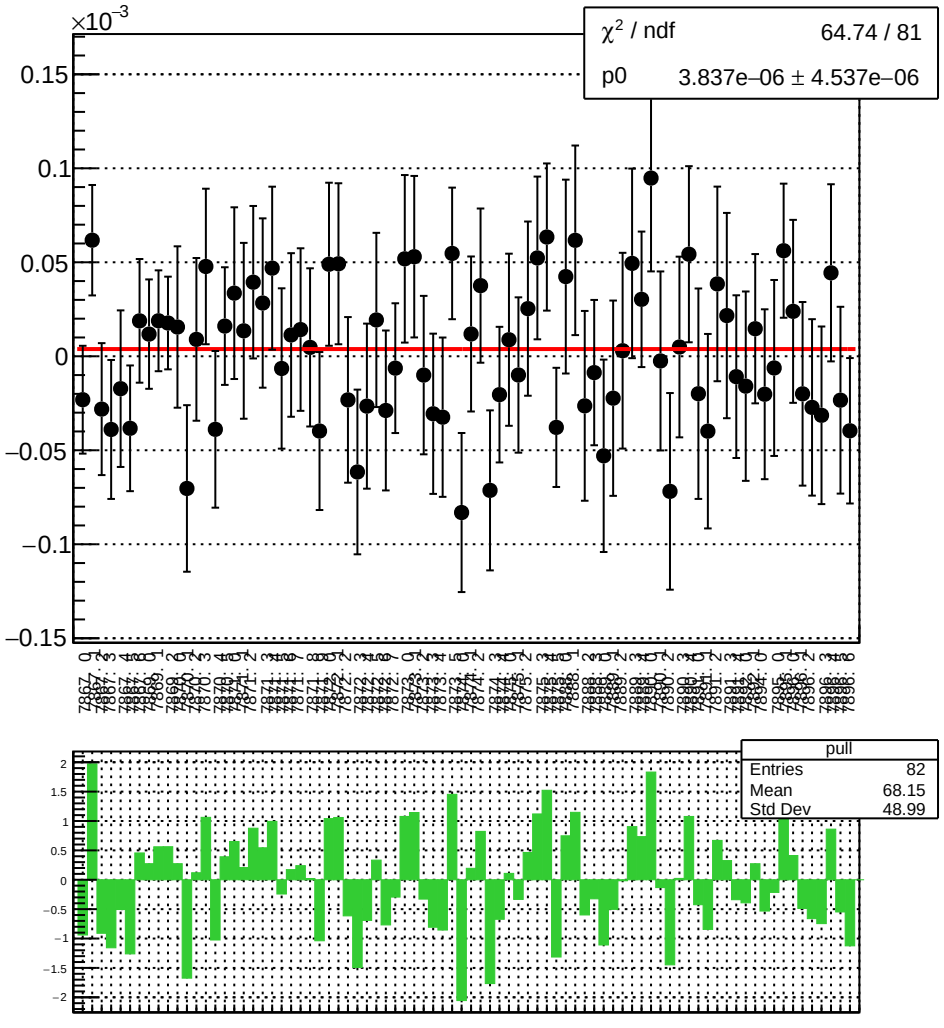

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.76 / 81
p0 0.02813 ± 0.07931
pull
Entries 82
Mean −135.2
Std Dev 0

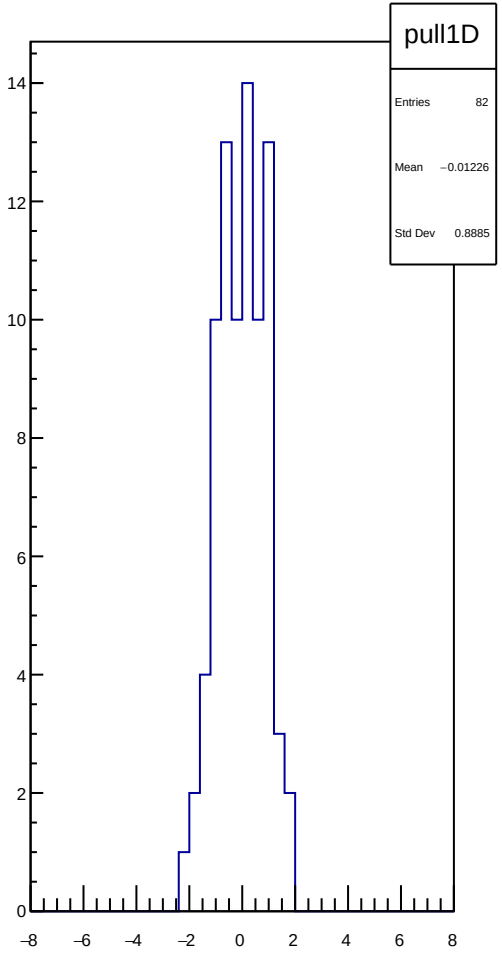

pull1D
Entries 82
Mean 0.01407
Std Dev 0.8885

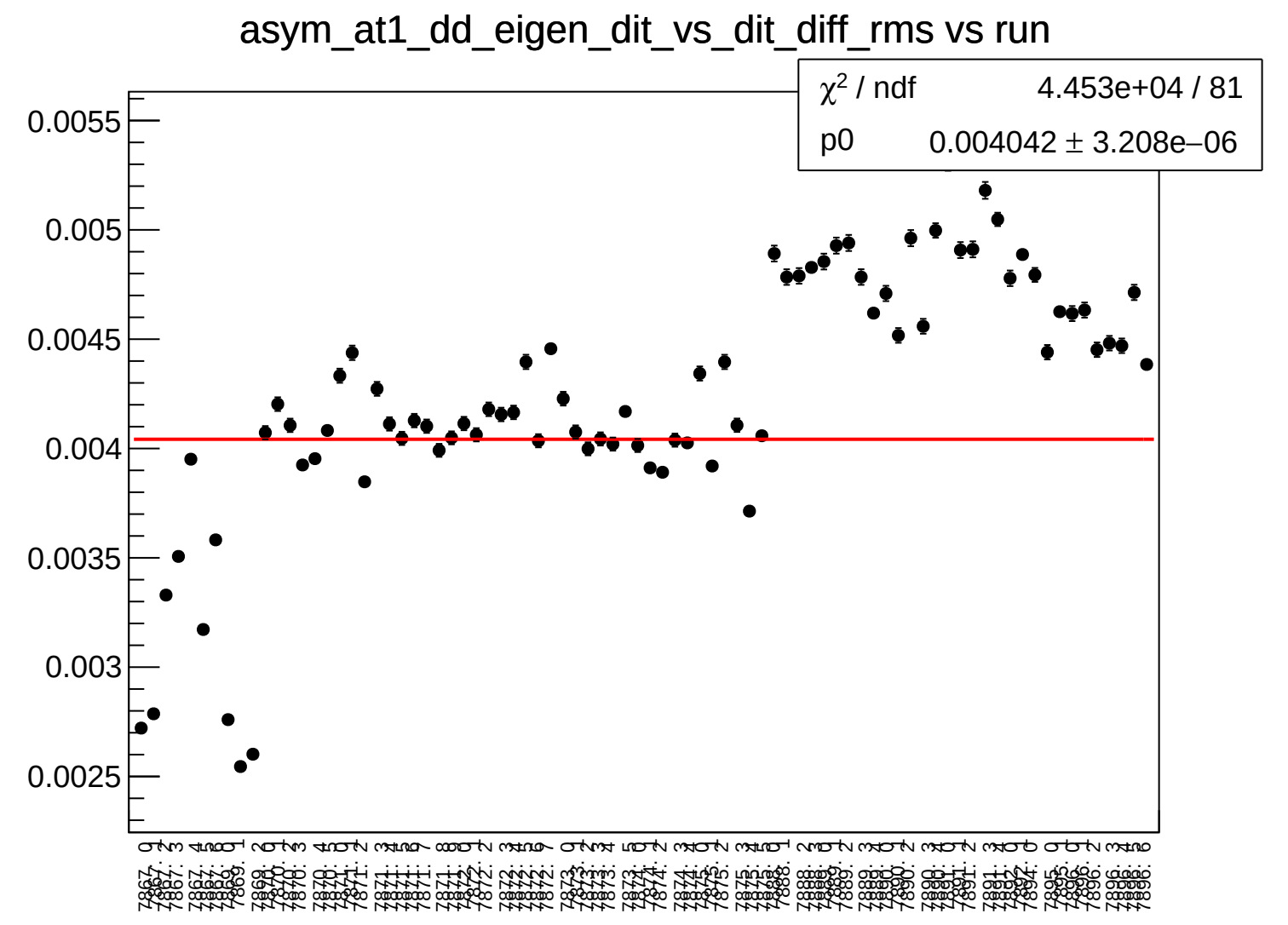

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.569e+05 / 81
p0 65.77 ± 0.05608
350
300
250
200
150
100
50

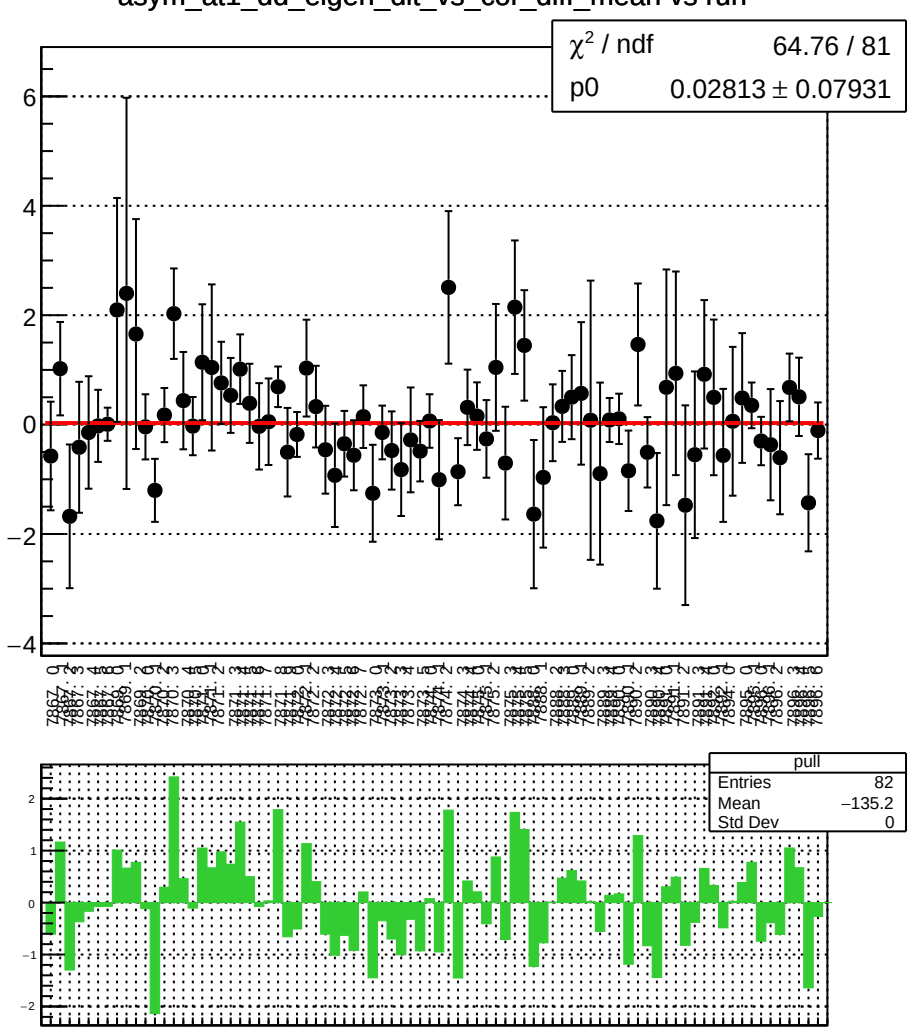

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.76 / 81
p0 0.02813 ± 0.07931
pull
Entries 82
Mean −135.2
Std Dev 0
pull1D
Entries 82
Mean 0.01407
Std Dev 0.8885

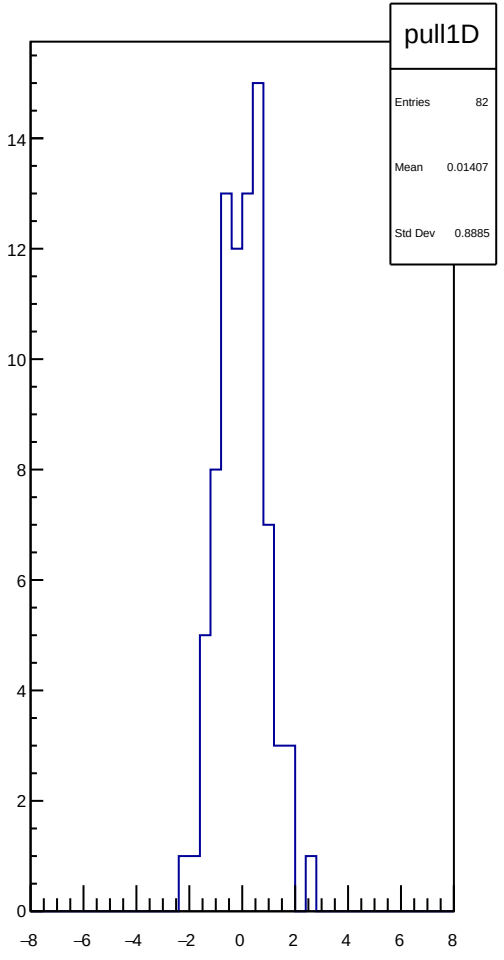

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.569e+05 / 81
p0 65.77 ± 0.05608
350
300
250
200
150
100
50

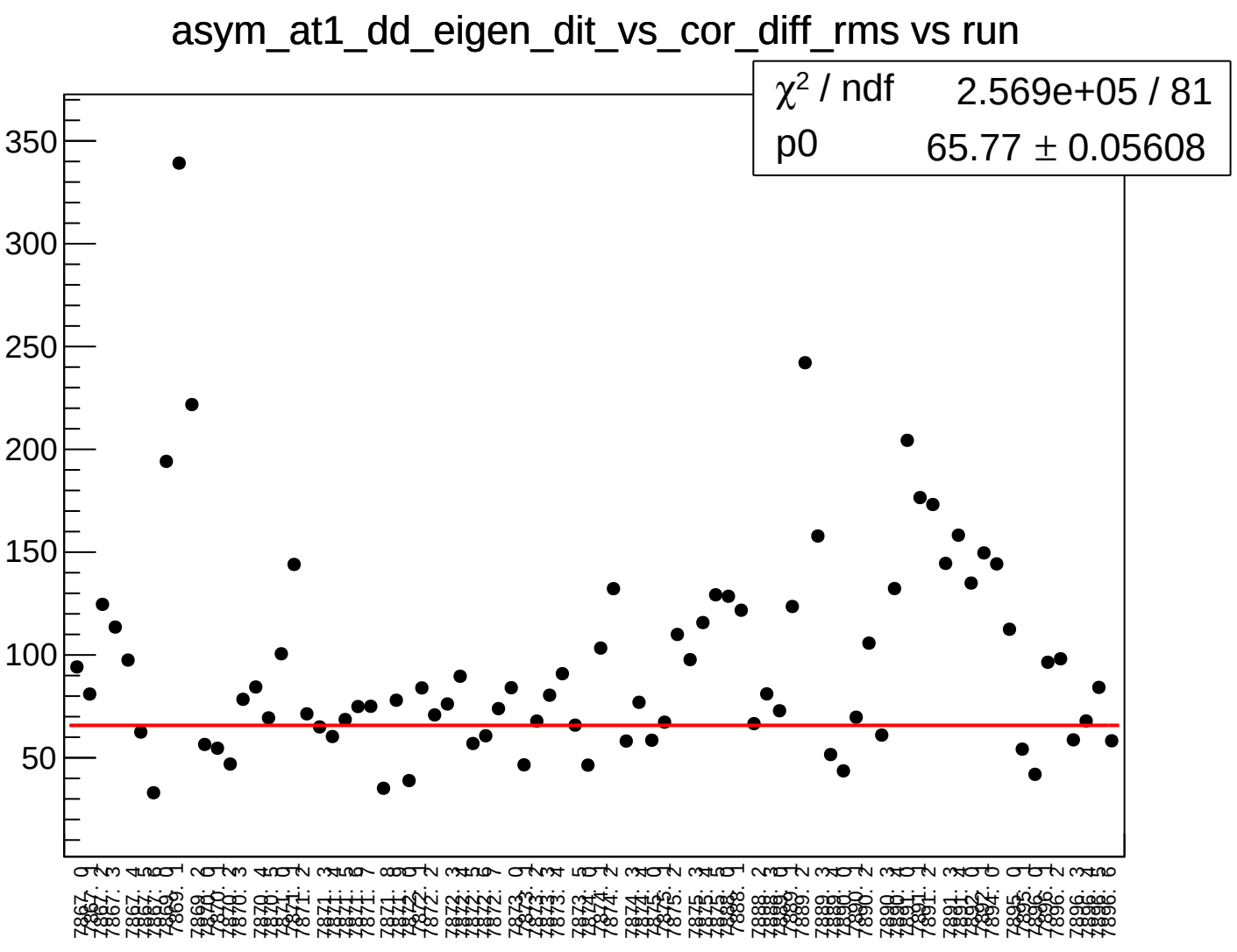

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.74 / 81
p0 3.837e−06 ± 4.537e−06
pull
Entries 82
Mean 68.15
Std Dev 48.99

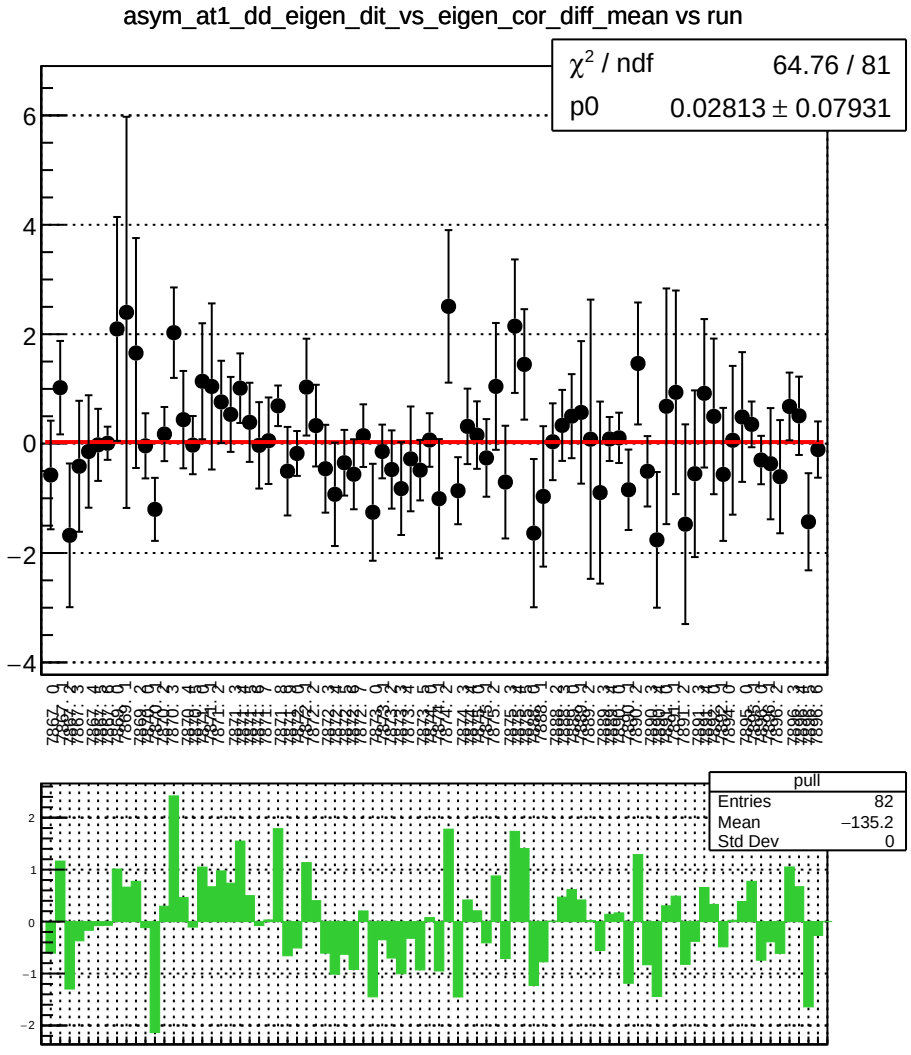

pull1D
Entries 82
Mean −0.01226
Std Dev 0.8885

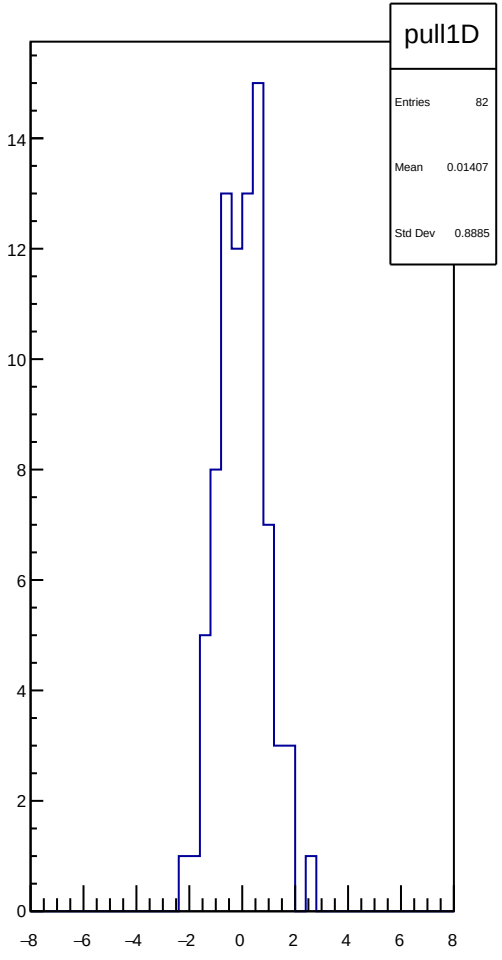

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.453e+04 / 81
p0 0.004042 ± 3.208e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

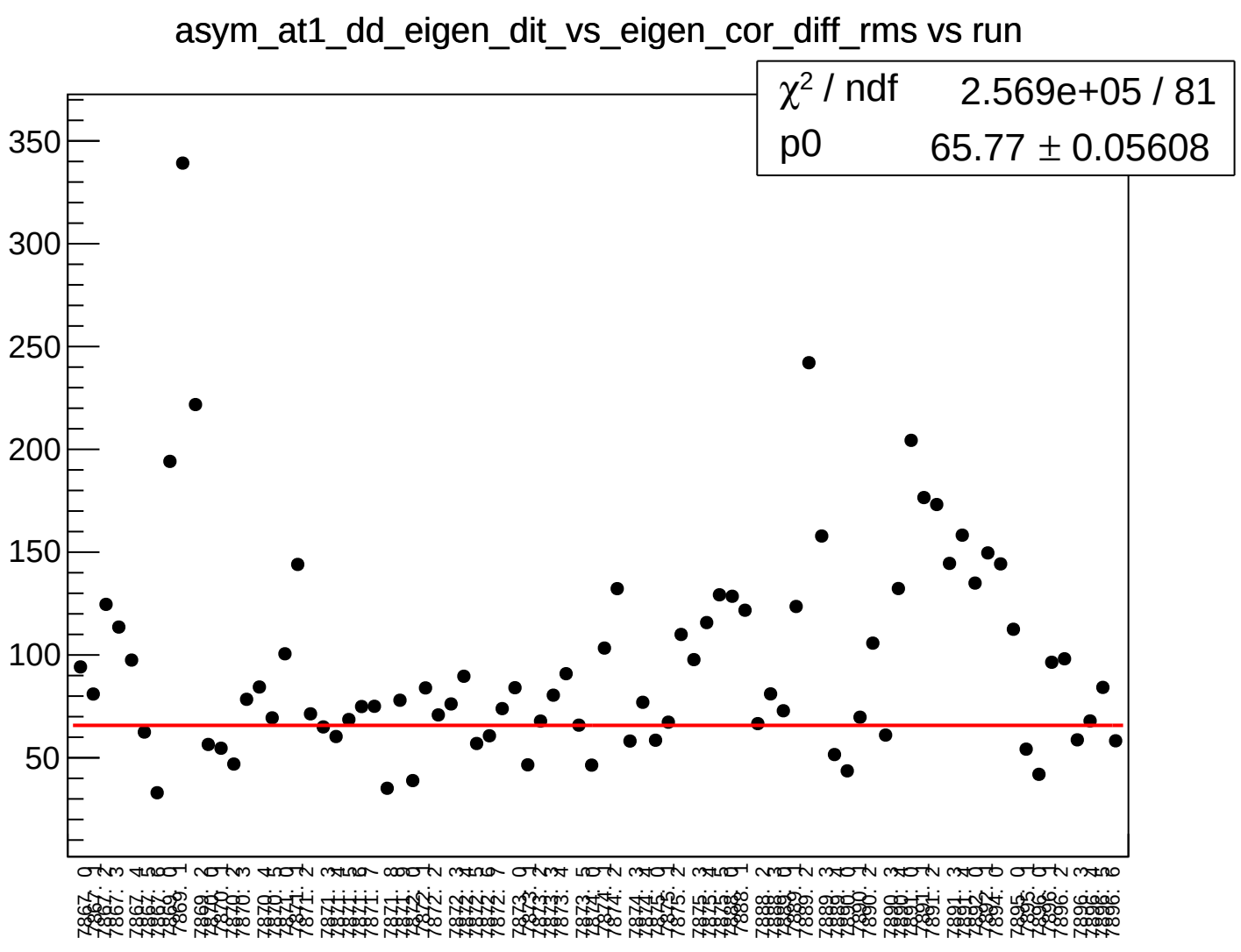

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.76 / 81
p0 0.02813 ± 0.07931
pull
Entries 82
Mean −135.2
Std Dev 0

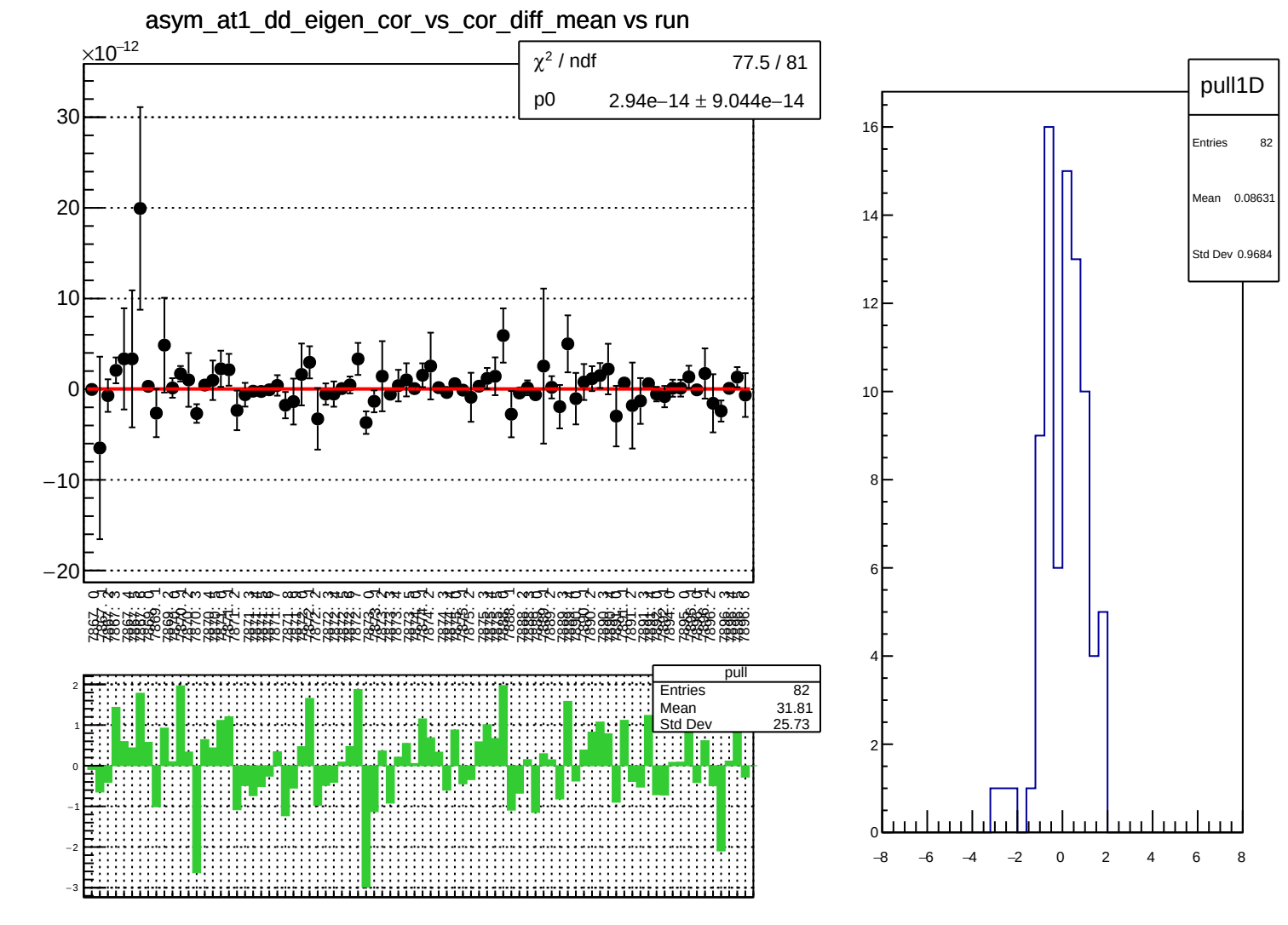

pull1D
Entries 82
Mean 0.01407
Std Dev 0.8885

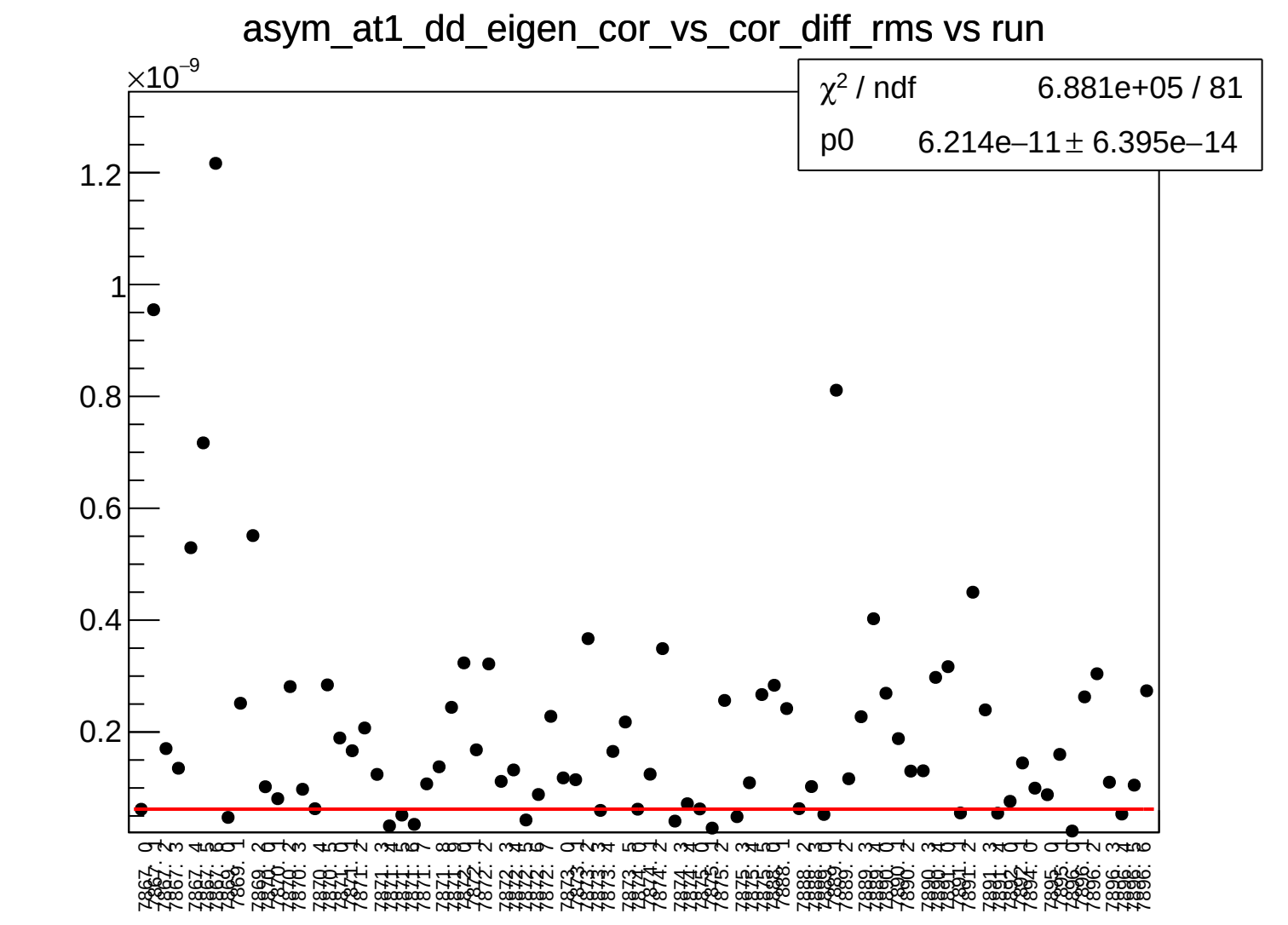

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.569e+05 / 81
p0 65.77 ± 0.05608
350
300
250
200
150
100
50

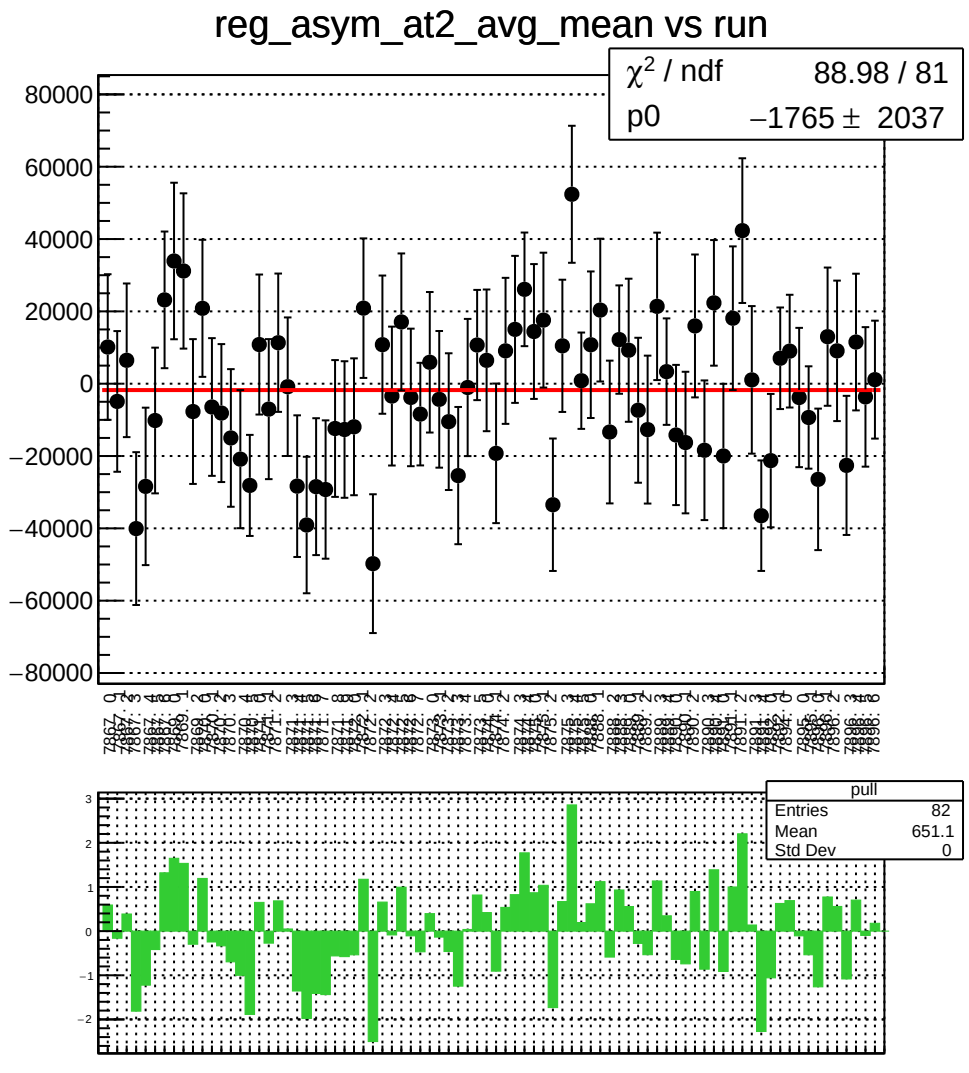

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.76 / 81
p0 0.02813 ± 0.07931
pull
Entries 82
Mean −135.2
Std Dev 0

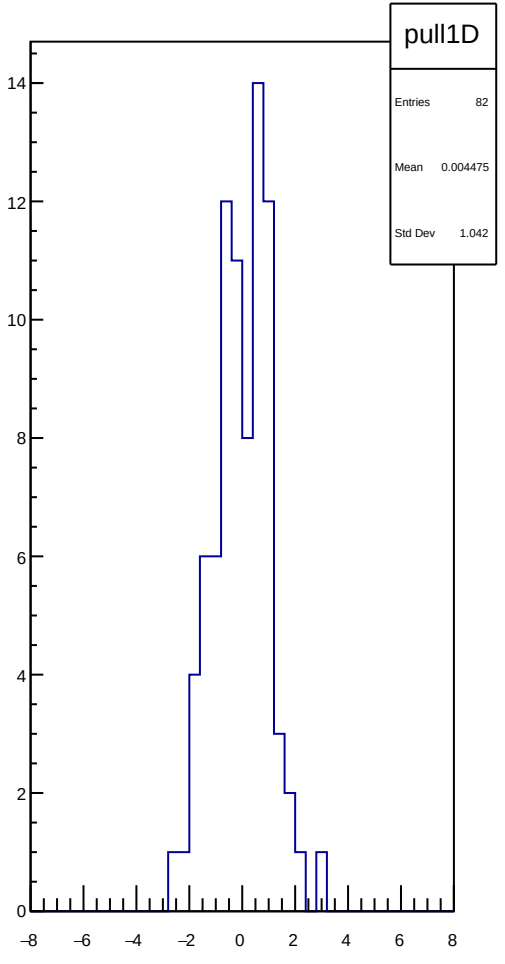

pull1D
Entries 82
Mean 0.01407
Std Dev 0.8885

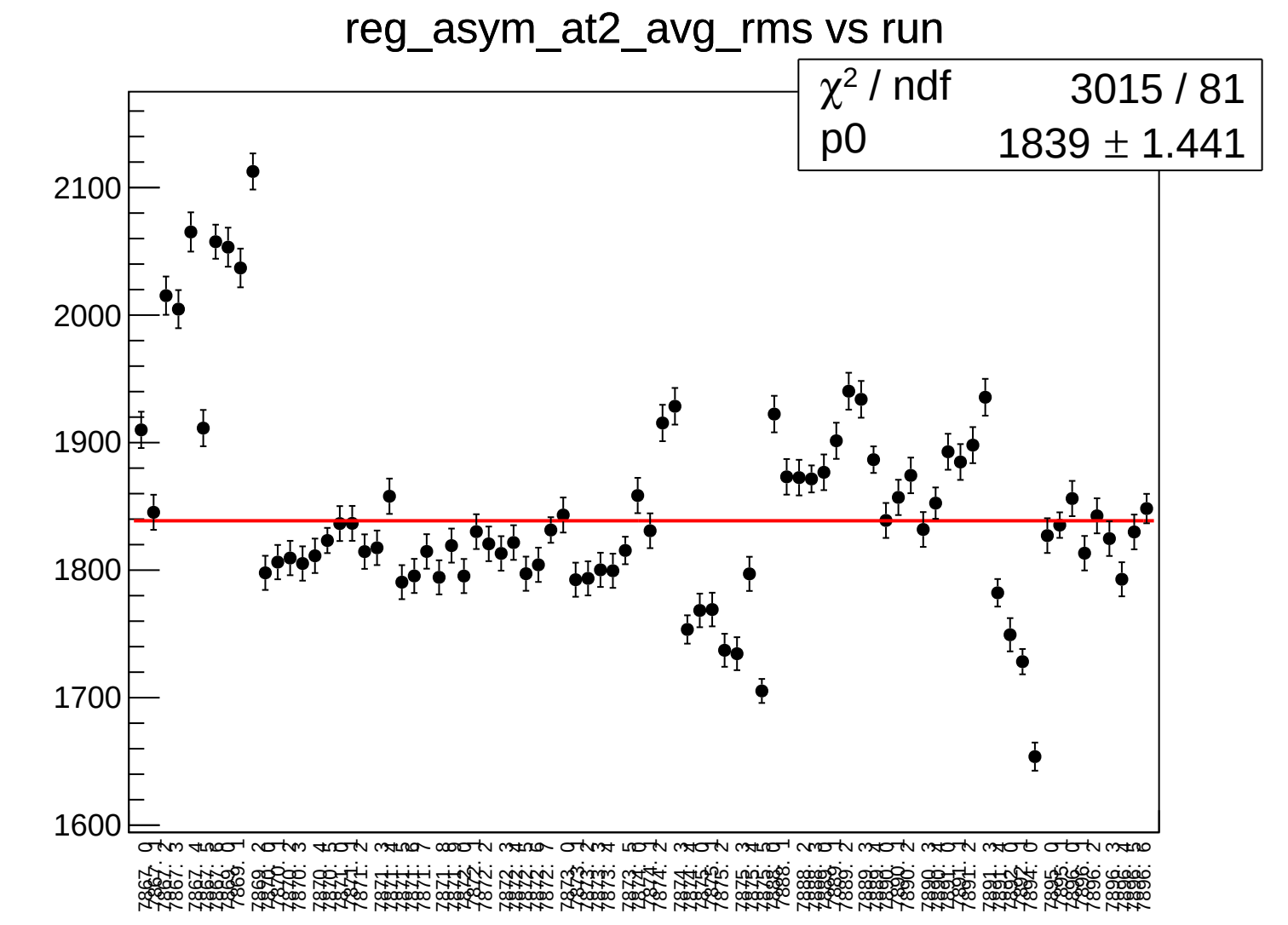

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.569e+05 / 81
p0 65.77 ± 0.05608
350
300
250
200
150
100
50

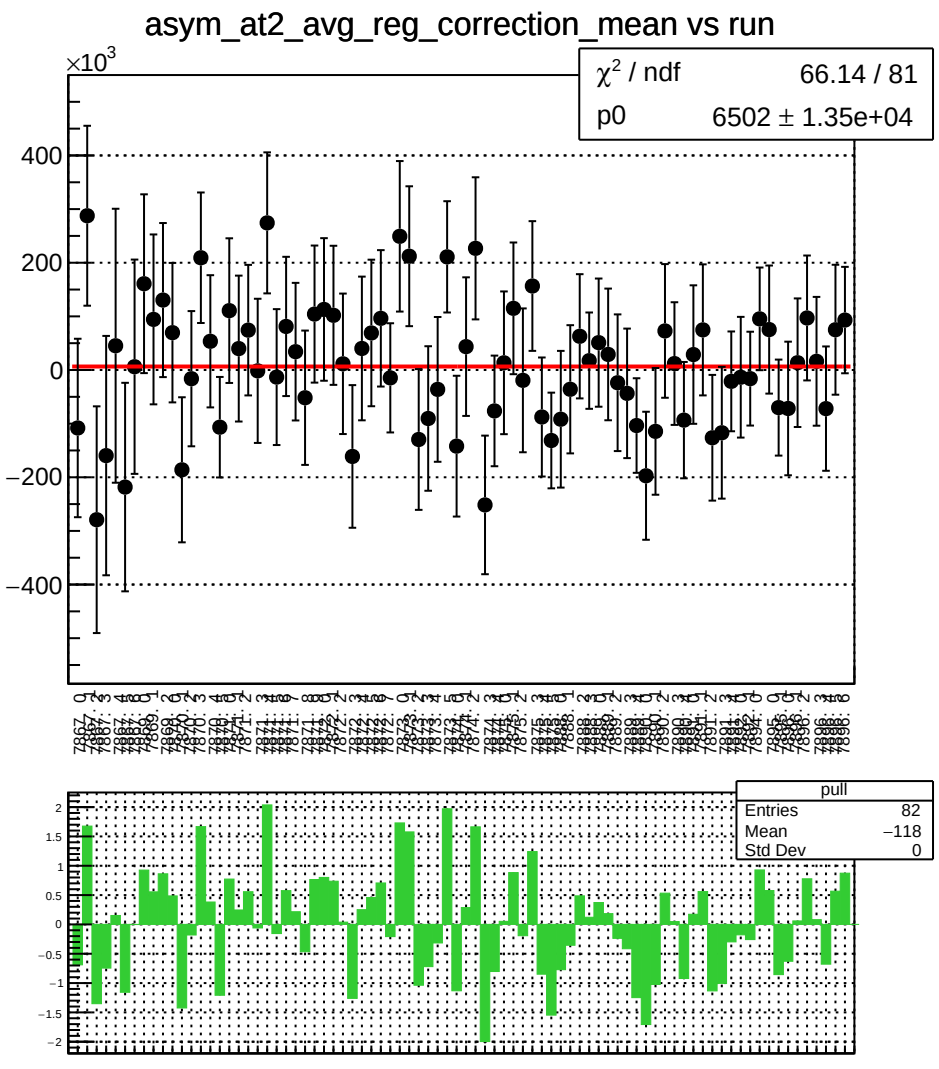

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.5 / 81
p0 2.94e−14 ± 9.044e−14
pull
Entries 82
Mean 31.81
Std Dev 25.73
pull1D
Entries 82
Mean 0.08631
Std Dev 0.9684

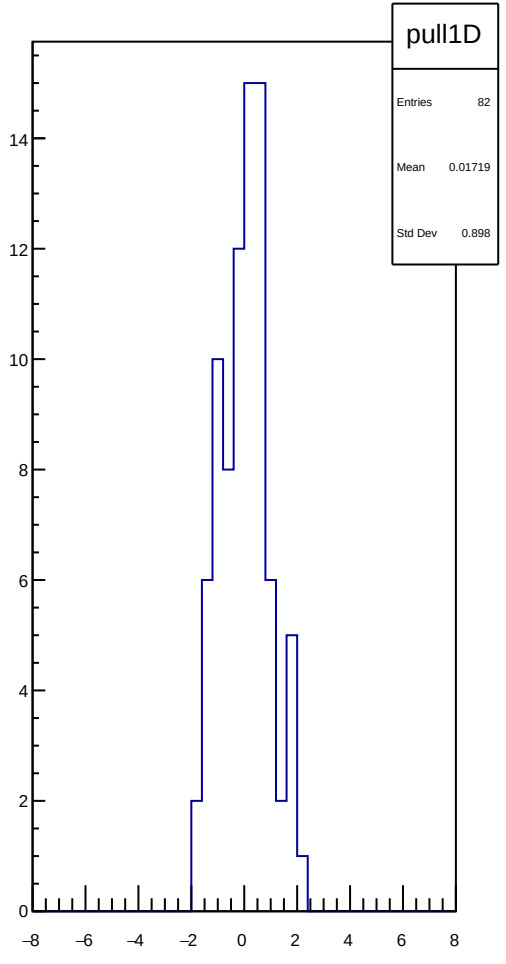

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.881e+05 / 81
p0 6.214e−11 ± 6.395e−14
1.2
1
0.8
0.6
0.4
0.2

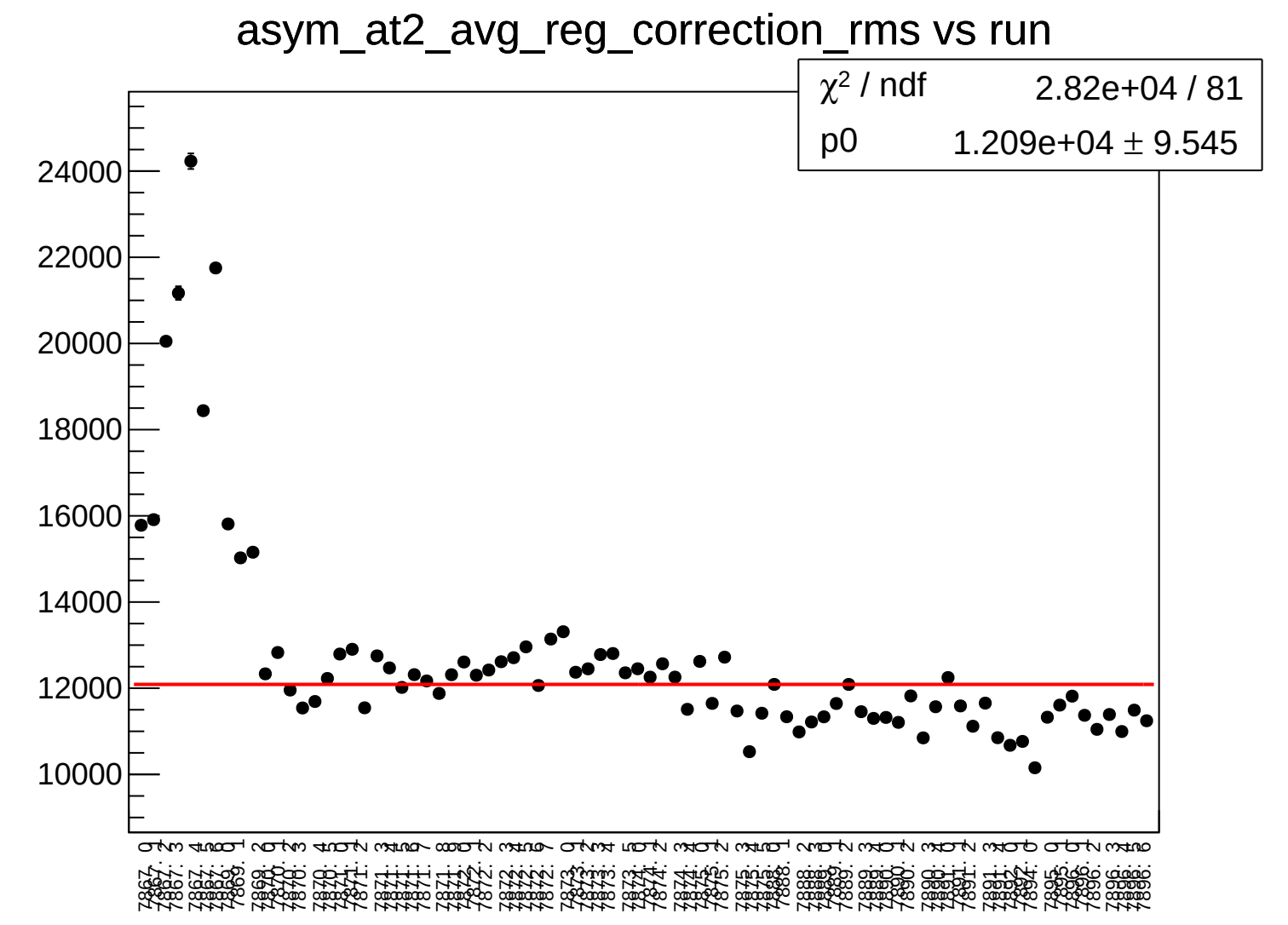

reg_asym_at2_avg_mean vs run
χ² / ndf 88.98 / 81
p0 −1765 ± 2037
pull
Entries 82
Mean 651.1
Std Dev 0

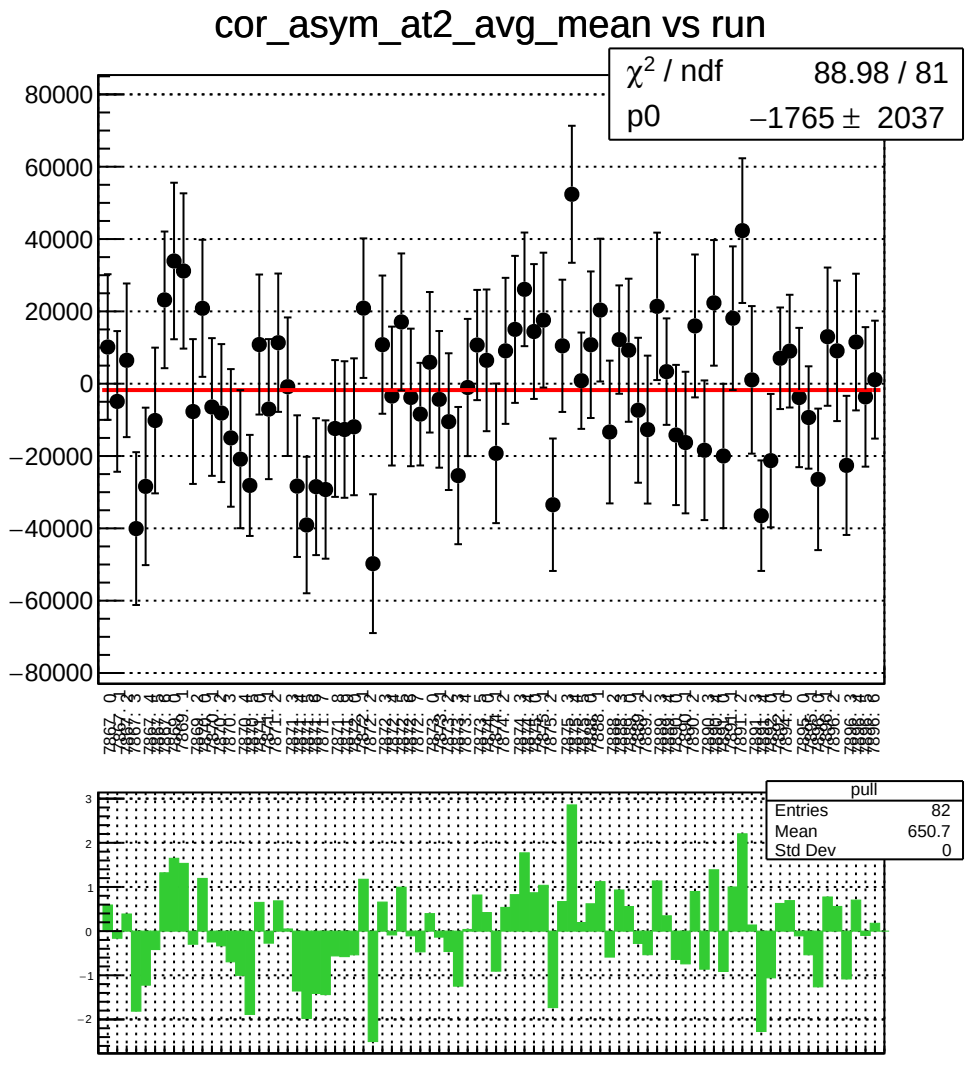

pull1D
Entries 82
Mean 0.004475
Std Dev 1.042

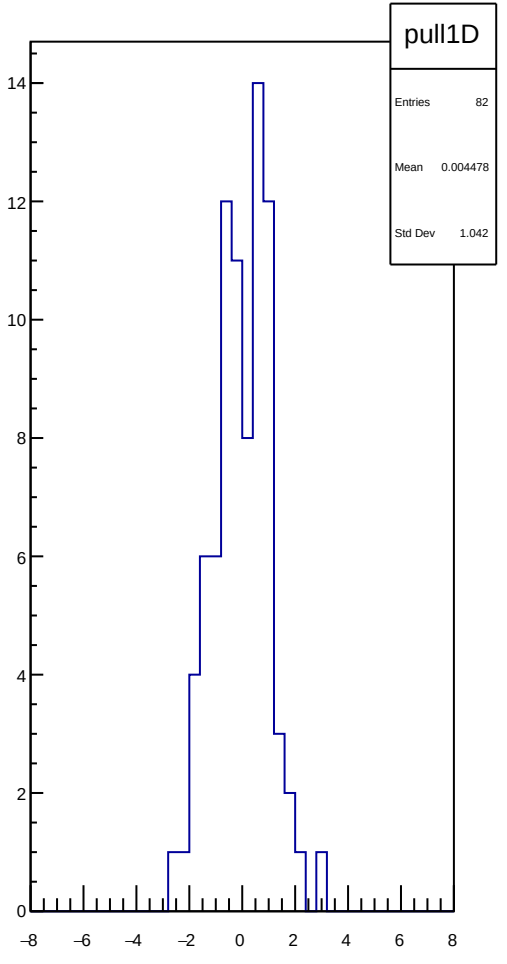

reg_asym_at2_avg_rms vs run
χ² / ndf 3015 / 81
p0 1839 ± 1.441
2100
2000
1900
1800
1700
1600

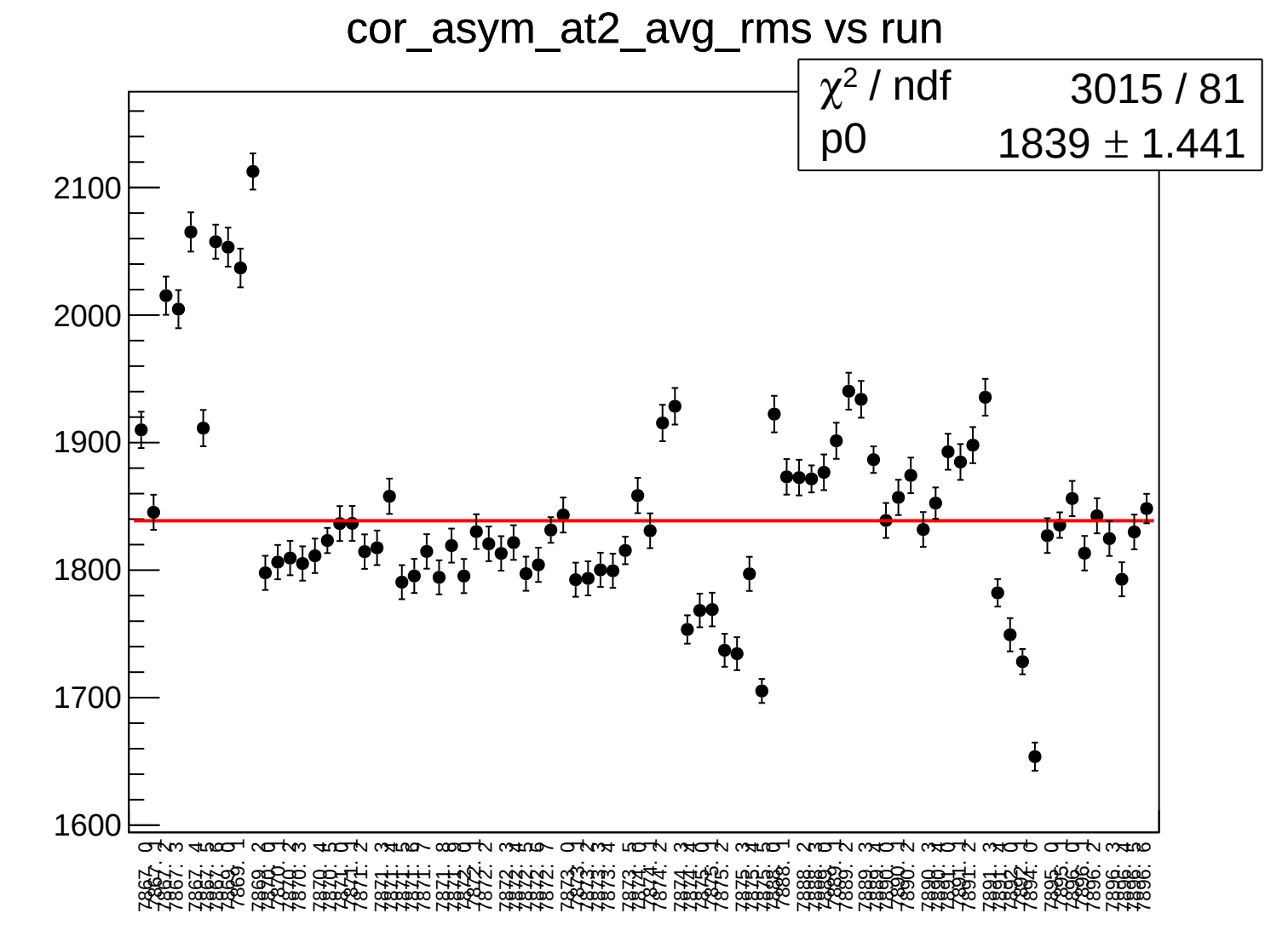

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.14 / 81
p0 6502 ± 1.35e+04
400
200
0
−200
−400
pull
Entries 82
Mean −118
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

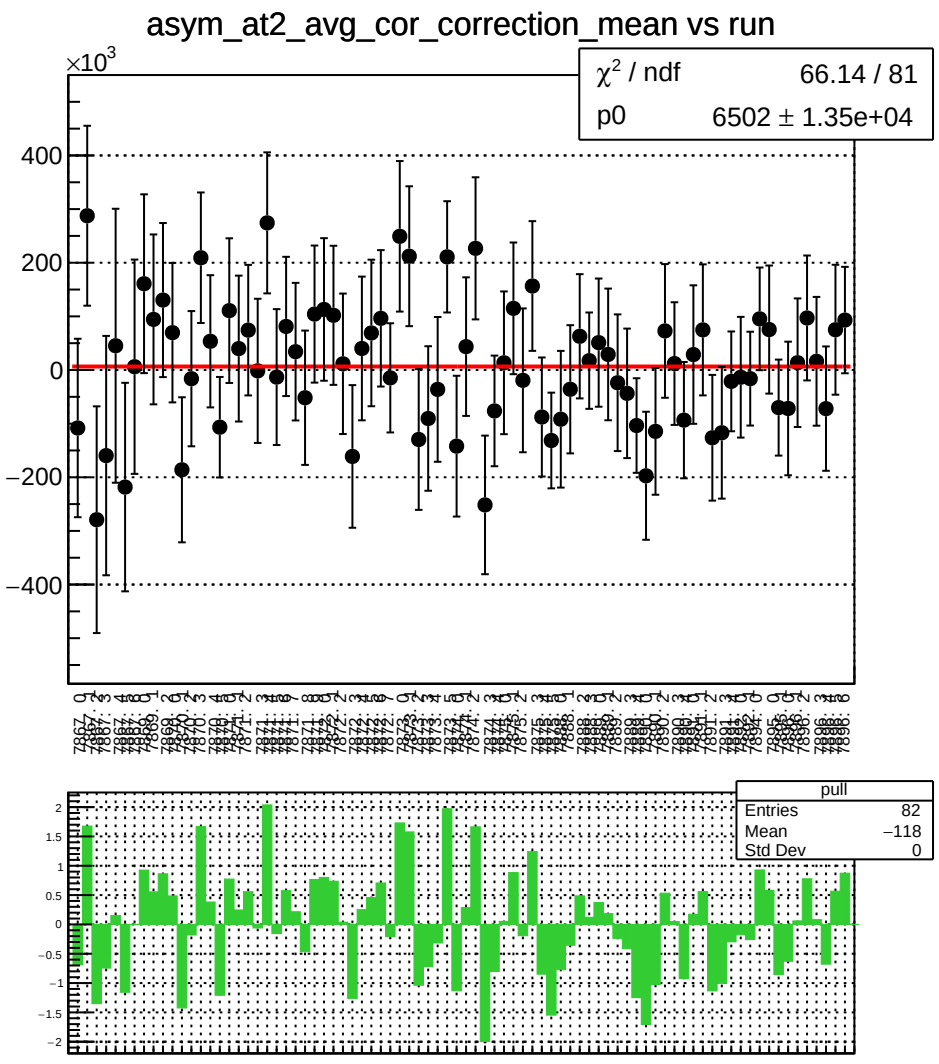

pull1D
Entries 82
Mean 0.01719
Std Dev 0.898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

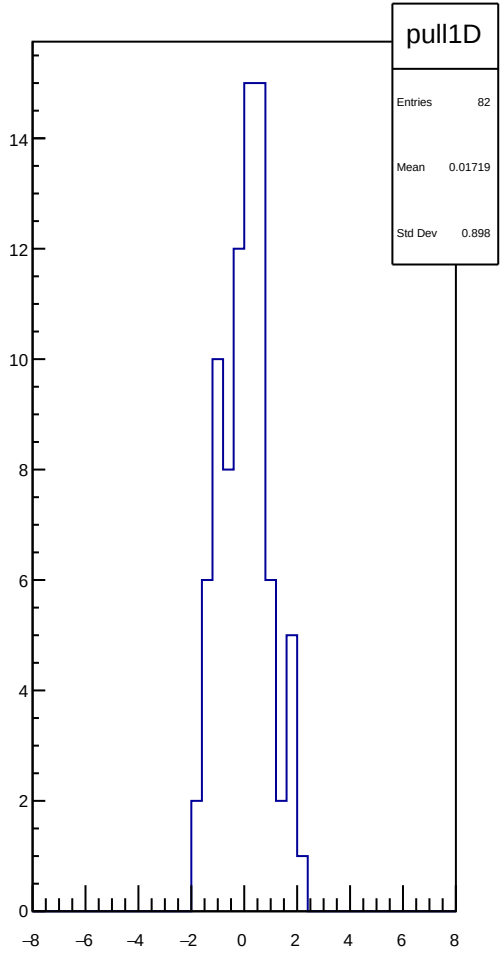

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2.82e+04 / 81
p0 1.209e+04 ± 9.545
24000
22000
20000
18000
16000
14000
12000
10000

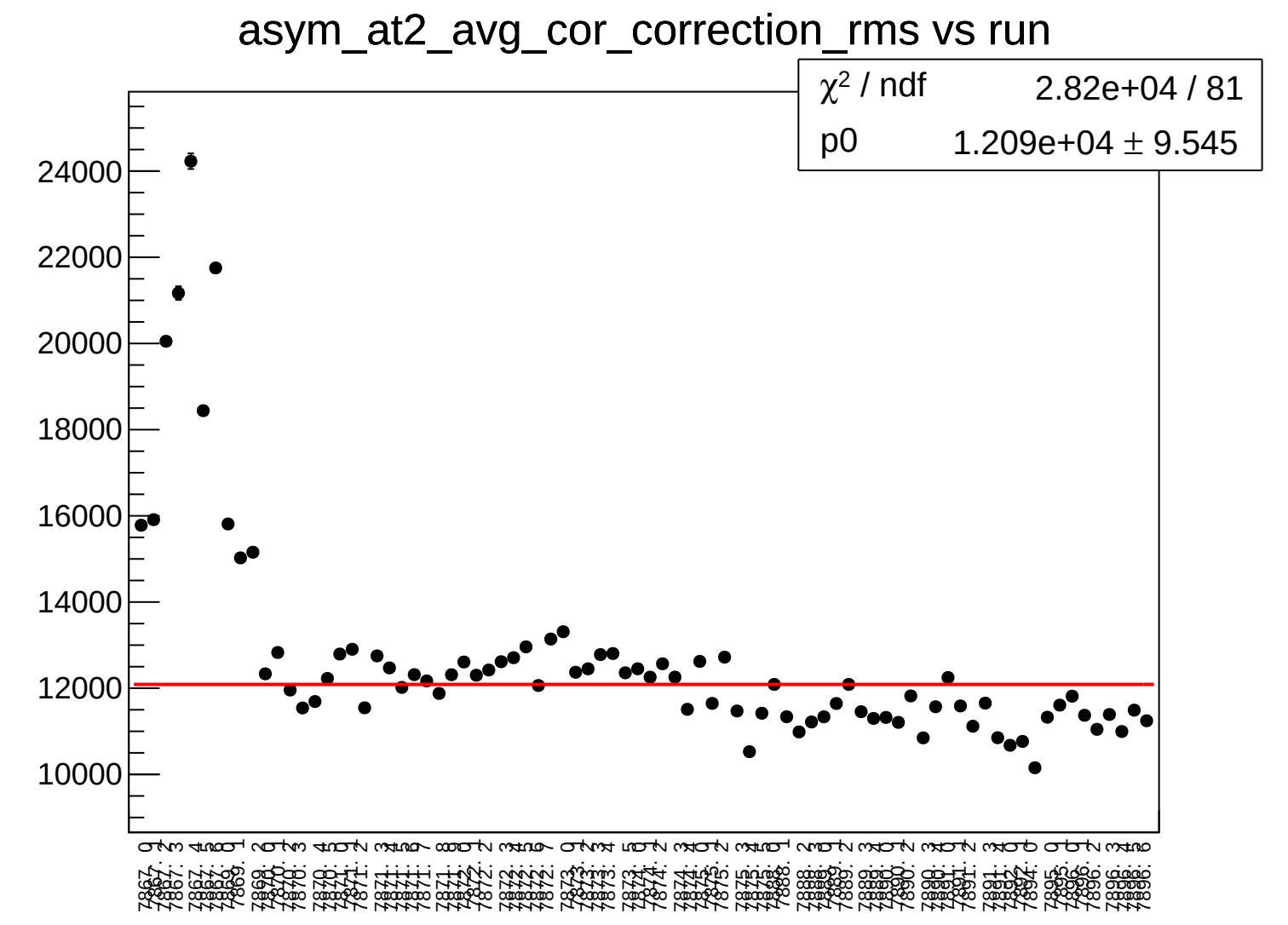

cor_asym_at2_avg_mean vs run
χ² / ndf 88.98 / 81
p0 −1765 ± 2037
pull
Entries 82
Mean 650.7
Std Dev 0

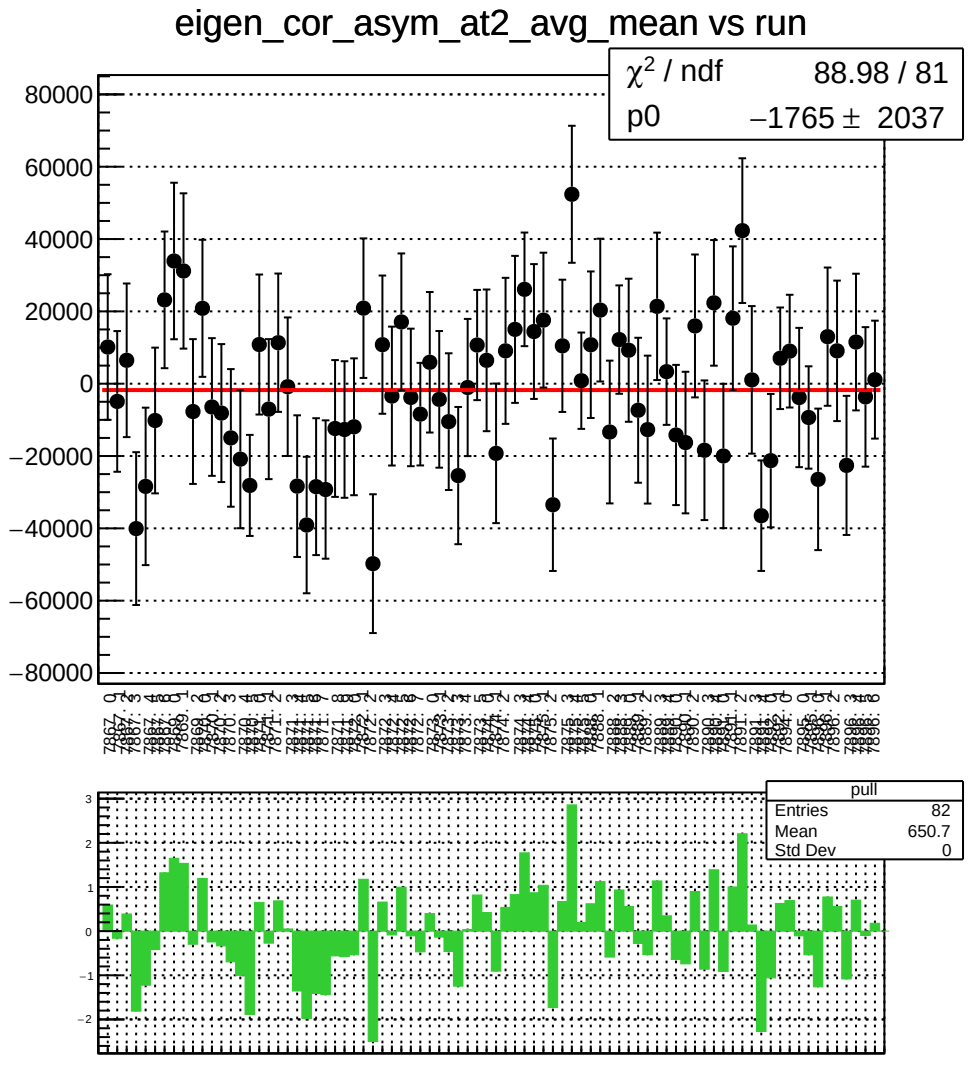

pull1D
Entries 82
Mean 0.004478
Std Dev 1.042

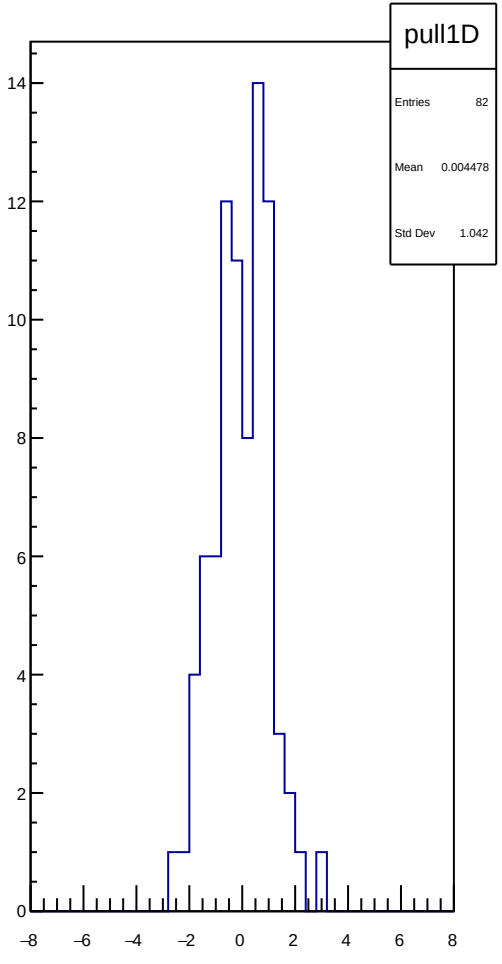

cor_asym_at2_avg_rms vs run
χ² / ndf 3015 / 81
p0 1839 ± 1.441
2100
2000
1900
1800
1700
1600

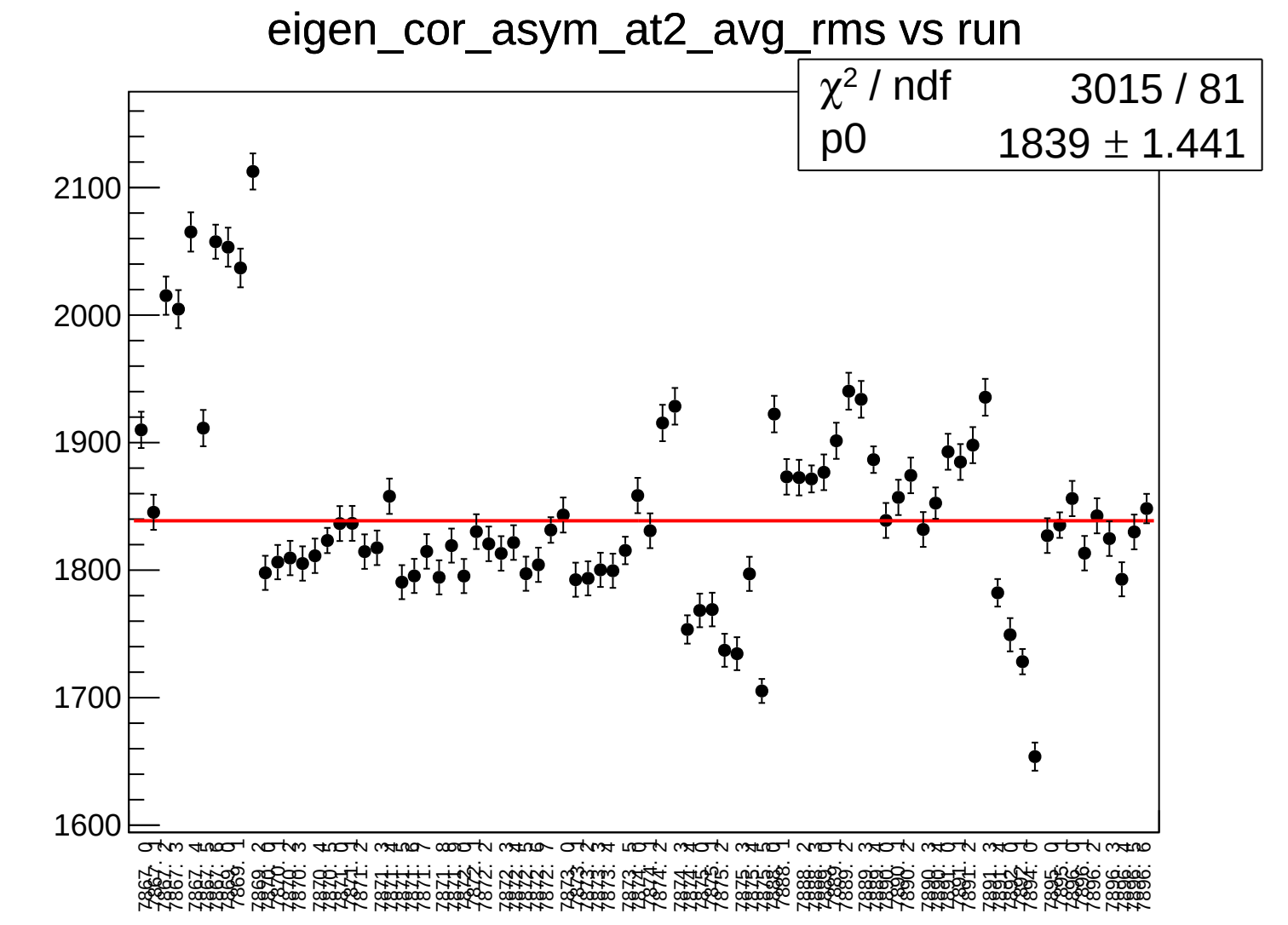

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.14 / 81
p0 6502 ± 1.35e+04
400
200
0
−200
−400
pull
Entries 82
Mean −118
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

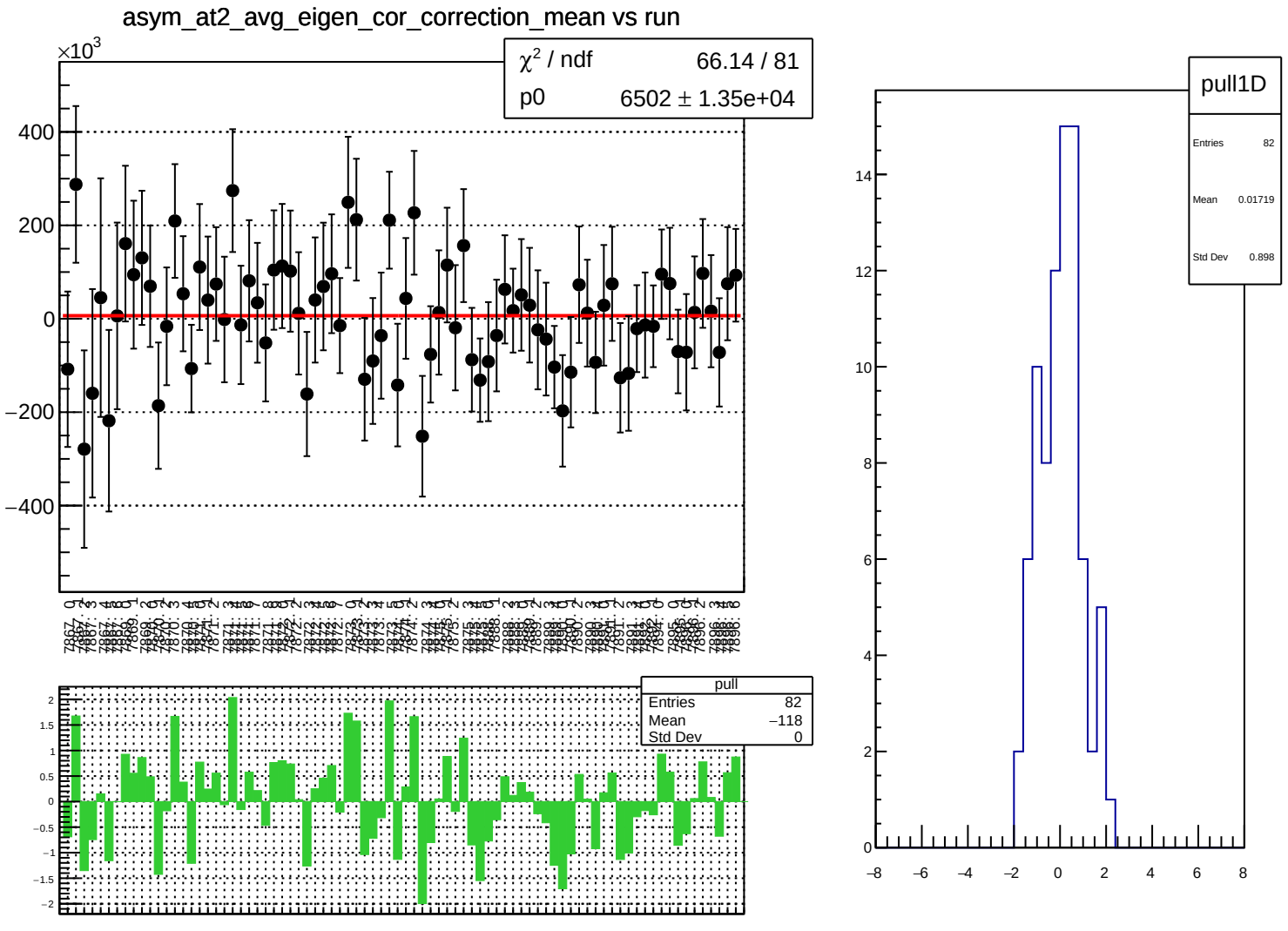

pull1D
Entries 82
Mean 0.01719
Std Dev 0.898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

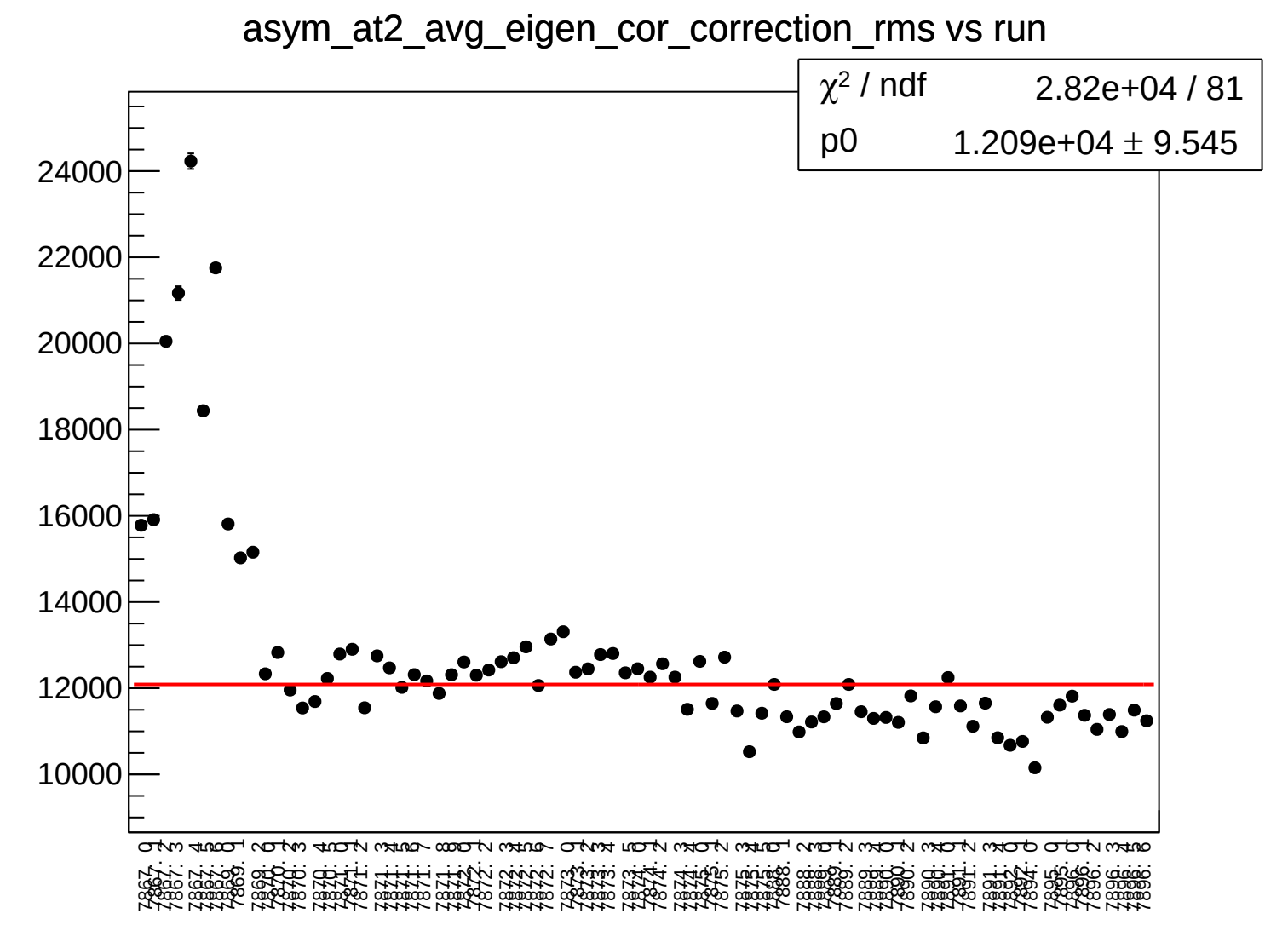

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2.82e+04 / 81
p0 1.209e+04 ± 9.545
24000
22000
20000
18000
16000
14000
12000
10000

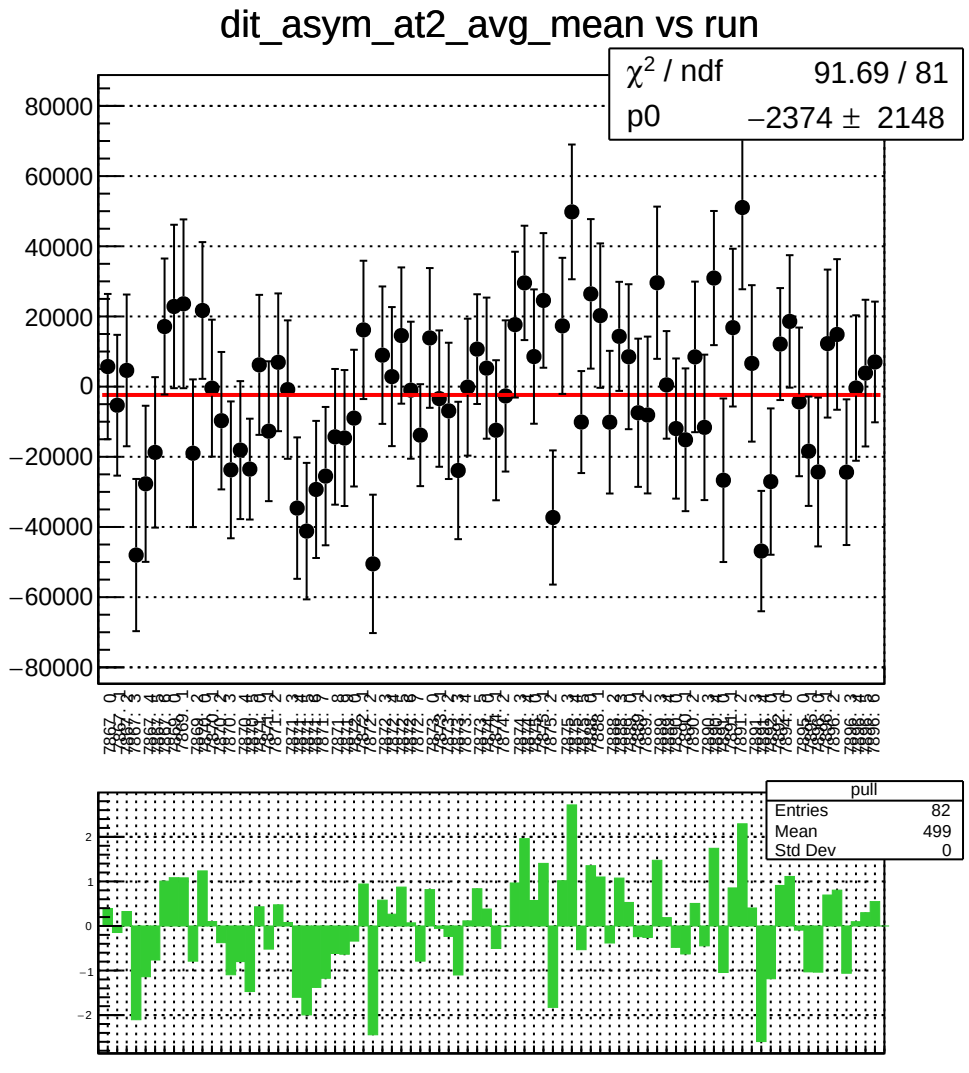

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 88.98 / 81
p0 −1765 ± 2037
pull
Entries 82
Mean 650.7
Std Dev 0

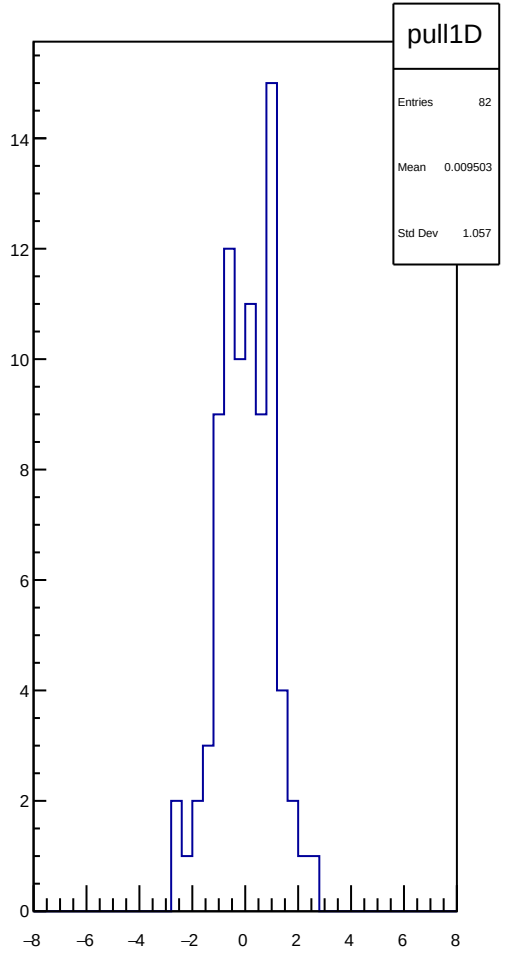

pull1D
Entries 82
Mean 0.004478
Std Dev 1.042

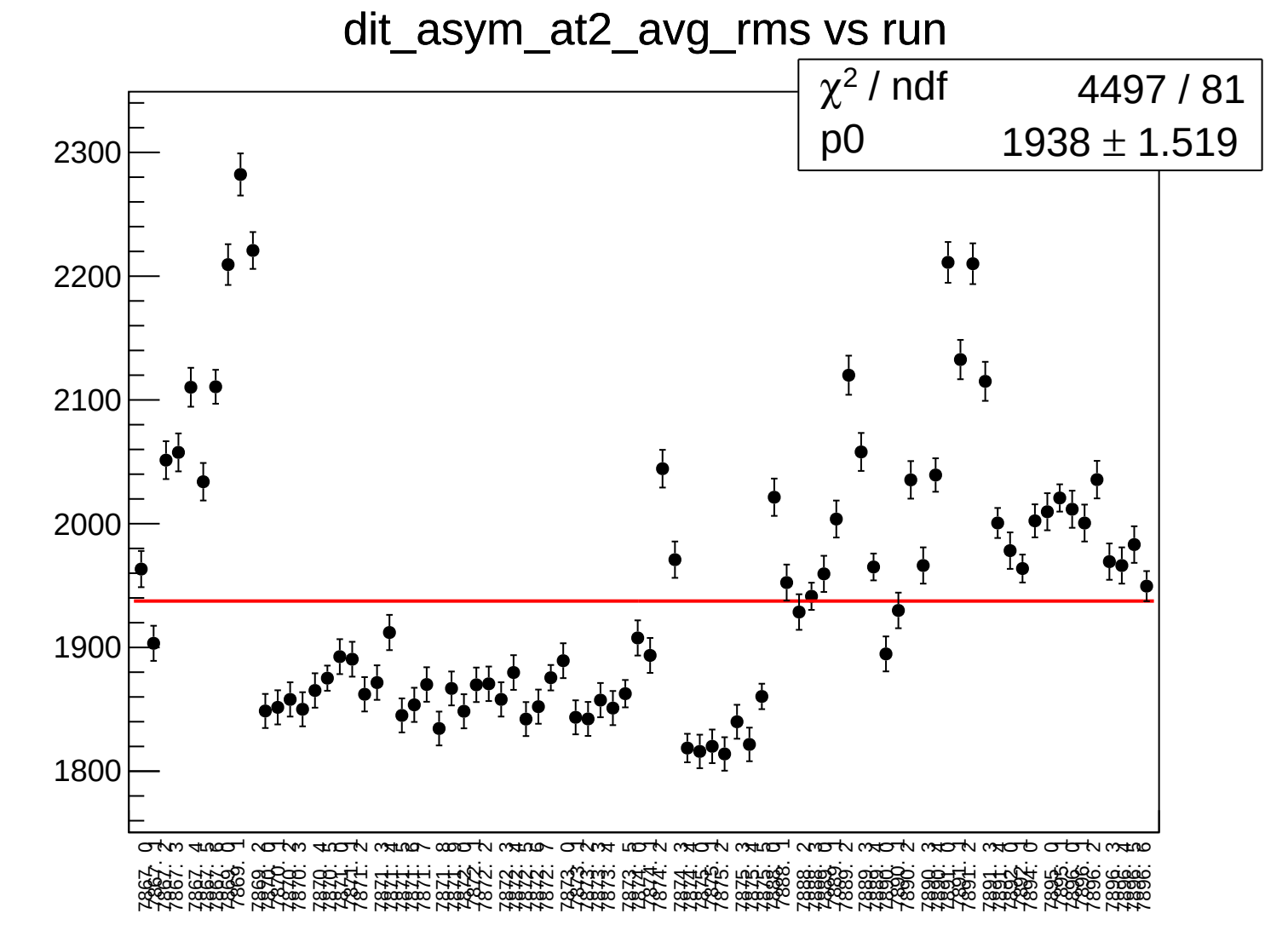

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 3015 / 81
p0 1839 ± 1.441
2100
2000
1900
1800
1700
1600

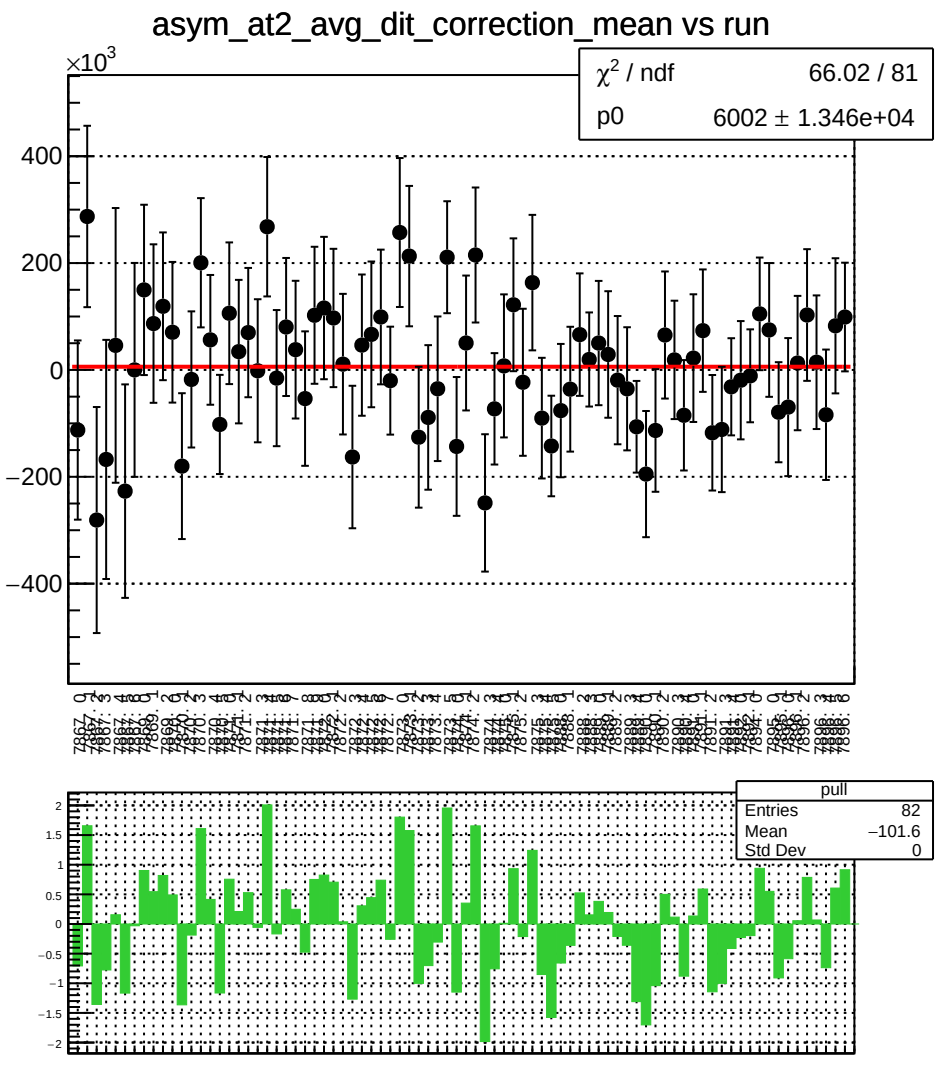

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.14 / 81
p0 6502 ± 1.35e+04
400
200
0
−200
−400
pull
Entries 82
Mean −118
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.01719
Std Dev 0.898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

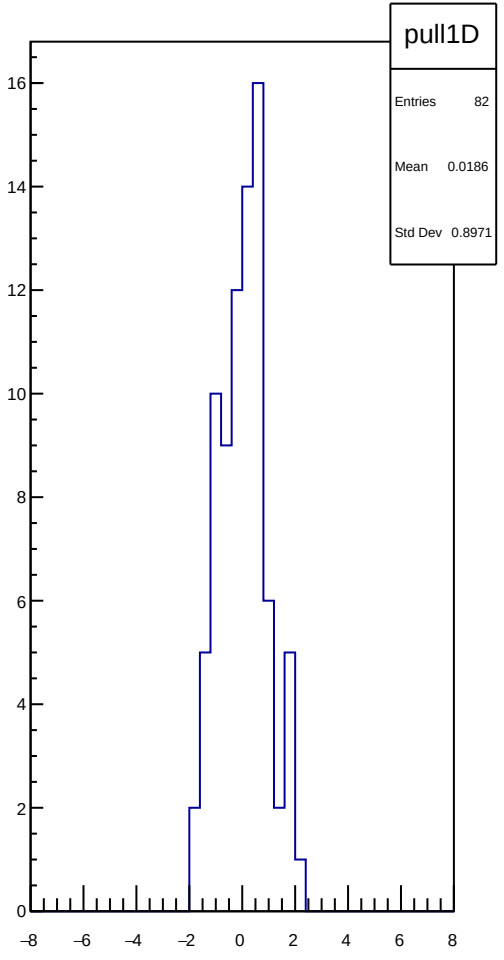

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.82e+04 / 81
p0 1.209e+04 ± 9.545
24000
22000
20000
18000
16000
14000
12000
10000

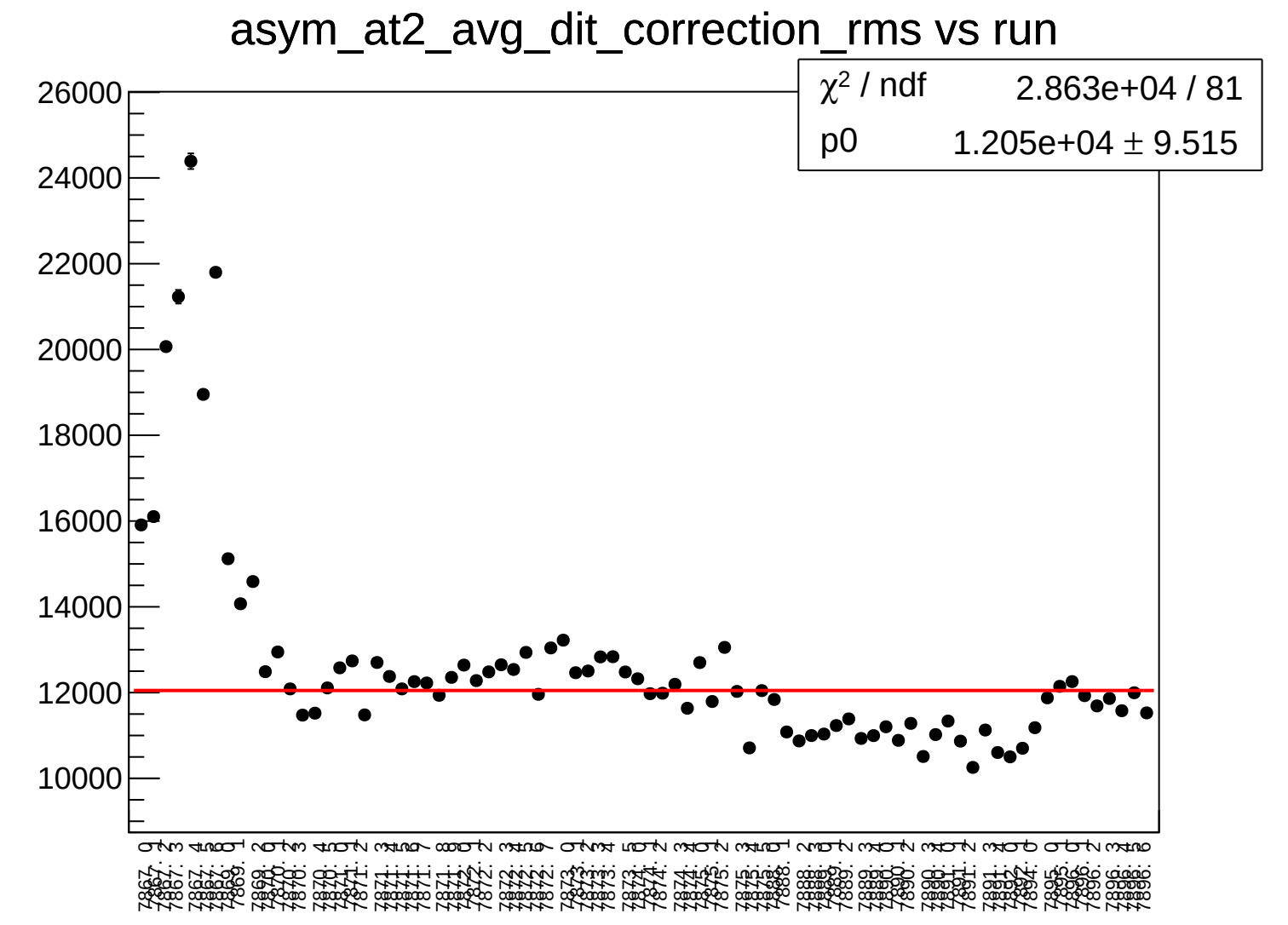

dit_asym_at2_avg_mean vs run
χ² / ndf 91.69 / 81
p0 −2374 ± 2148
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 499
Std Dev 0
2
1
0
−1
−2

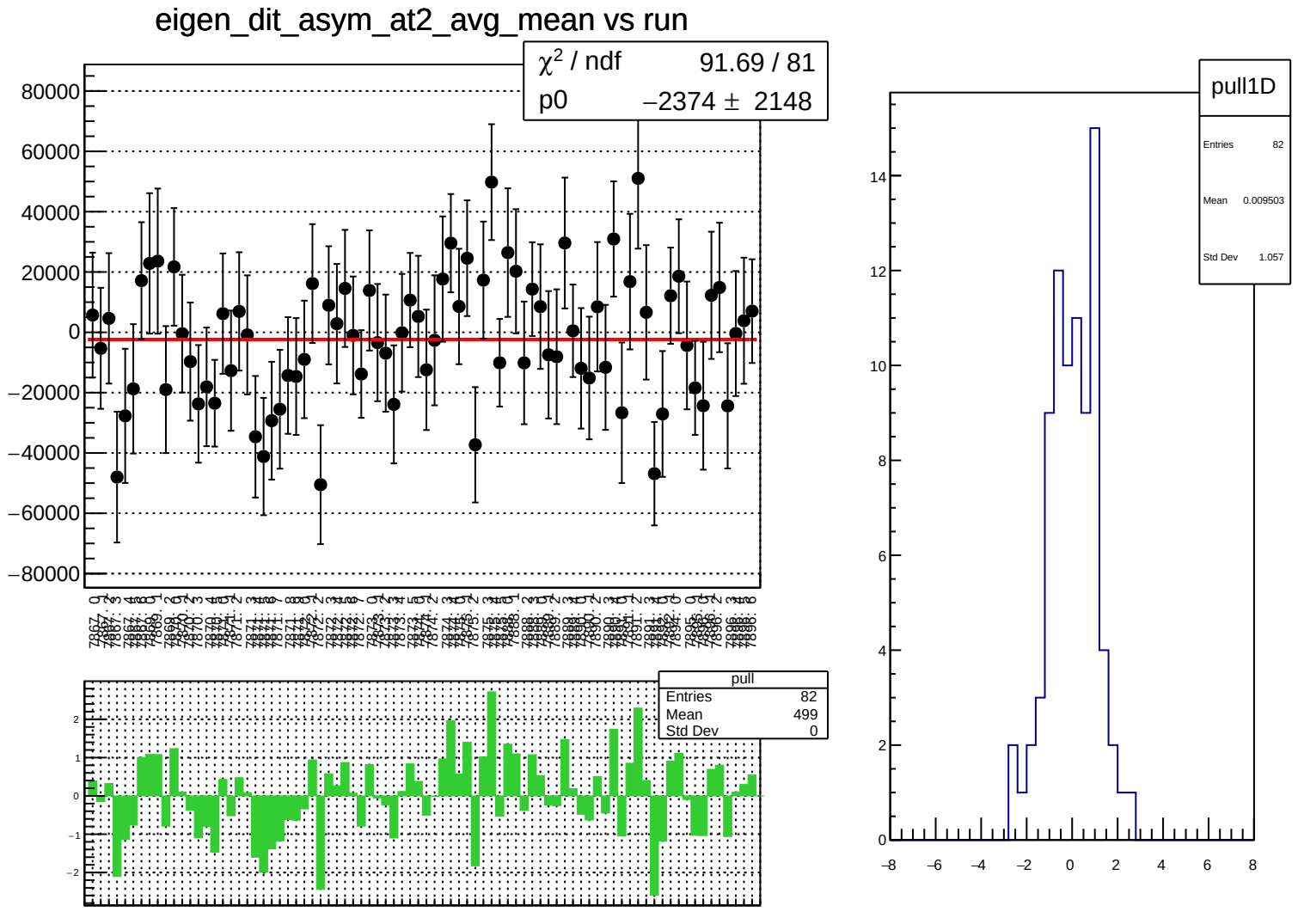

pull1D
Entries 82
Mean 0.009503
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

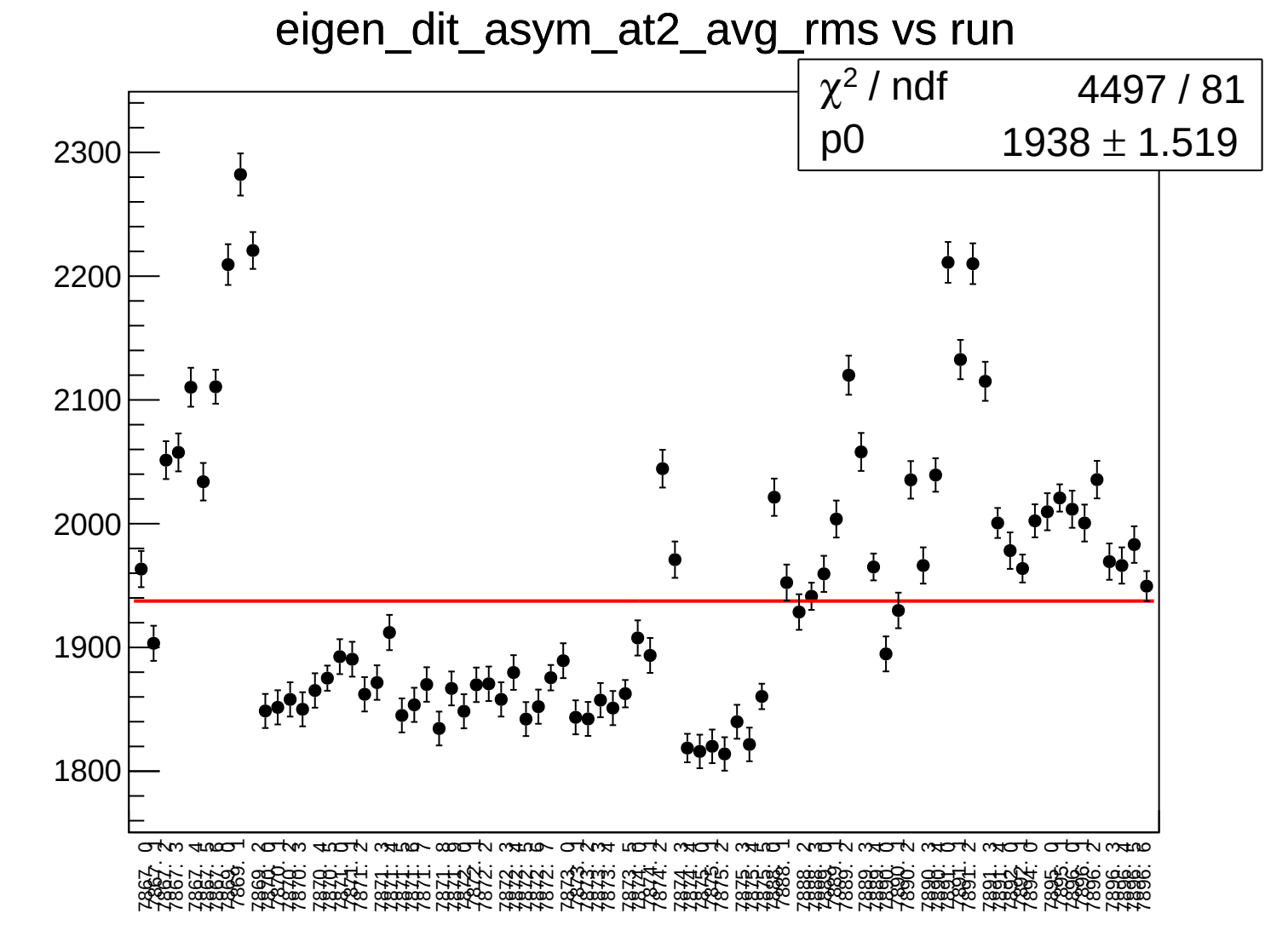

dit_asym_at2_avg_rms vs run
χ² / ndf 4497 / 81
p0 1938 ± 1.519
2300
2200
2100
2000
1900
1800

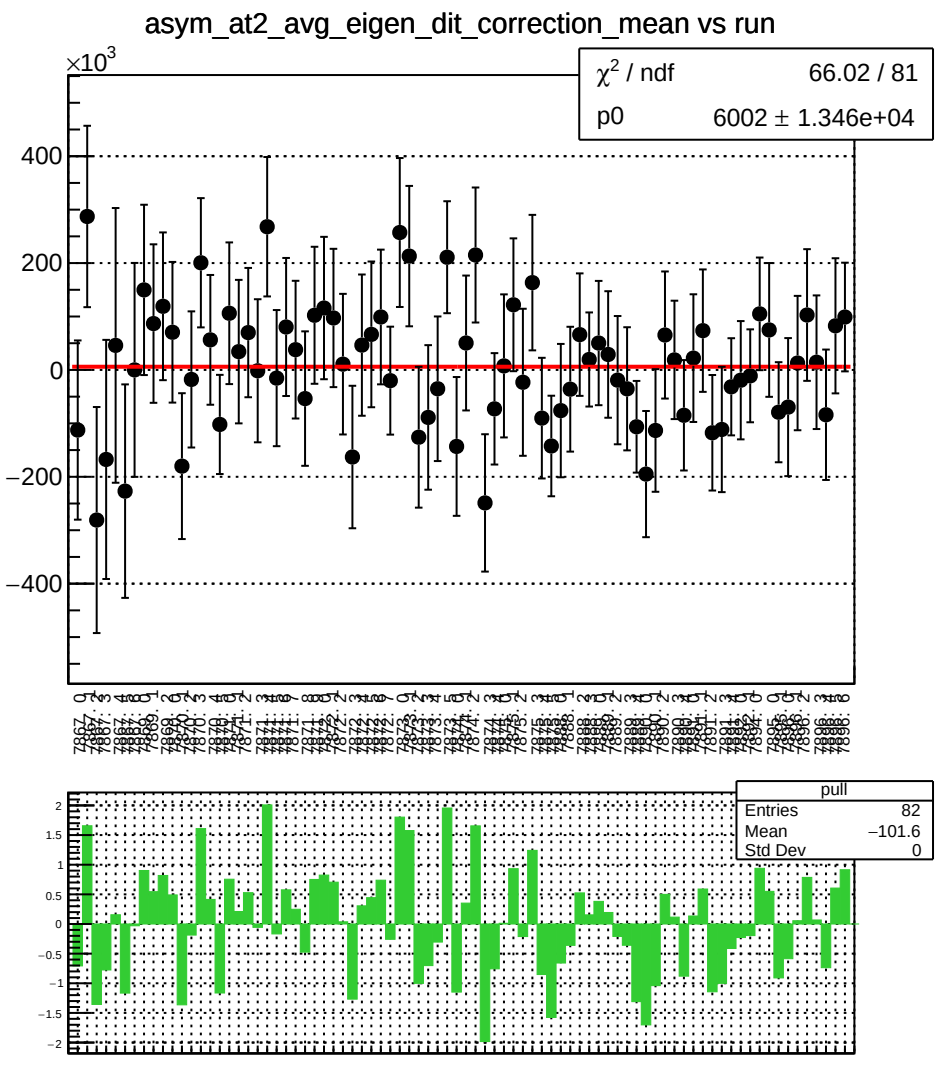

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.02 / 81
p0 6002 ± 1.346e+04
400
200
0
−200
−400
pull
Entries 82
Mean −101.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

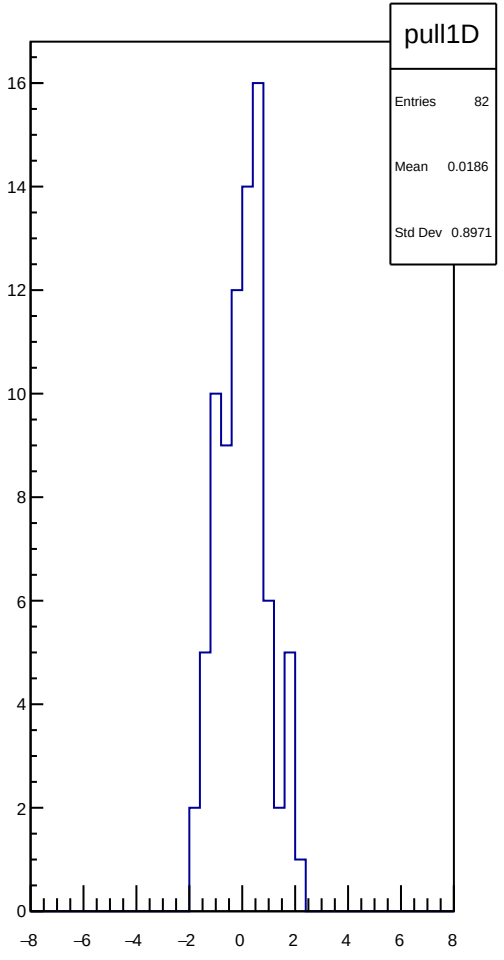

pull1D
Entries 82
Mean 0.0186
Std Dev 0.8971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

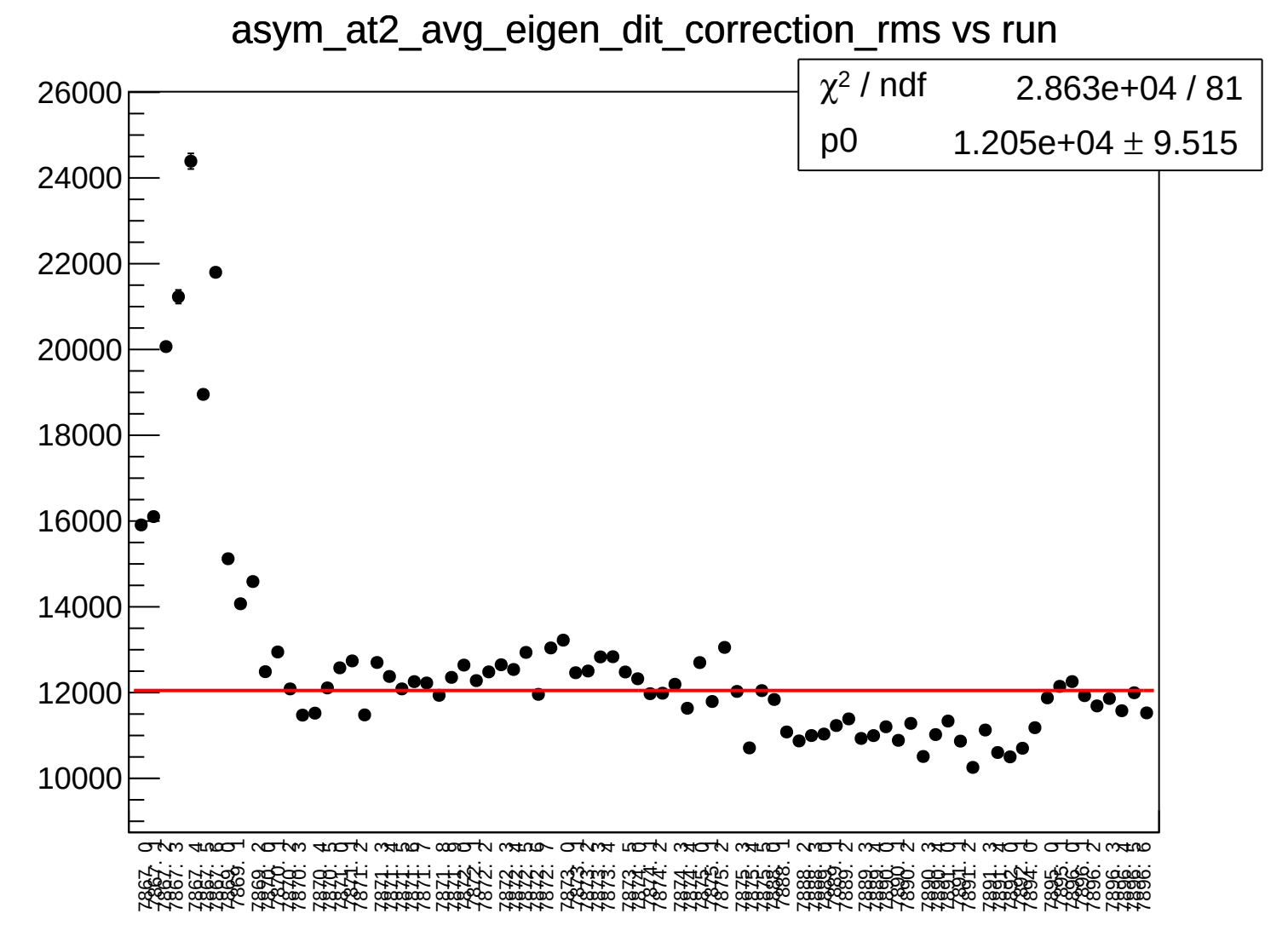

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2.863e+04 / 81
p0 1.205e+04 ± 9.515
26000
24000
22000
20000
18000
16000
14000
12000
10000

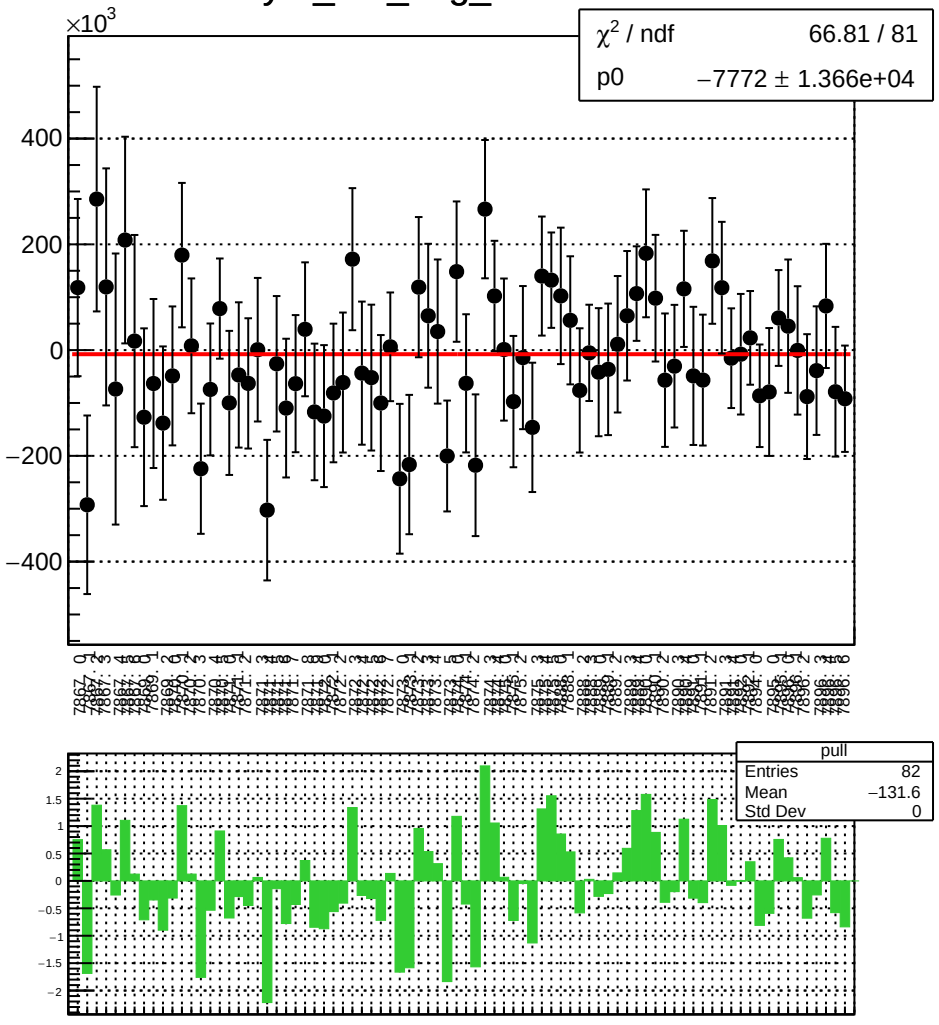

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 91.69 / 81
p0 −2374 ± 2148
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 499
Std Dev 0
pull1D
Entries 82
Mean 0.009503
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

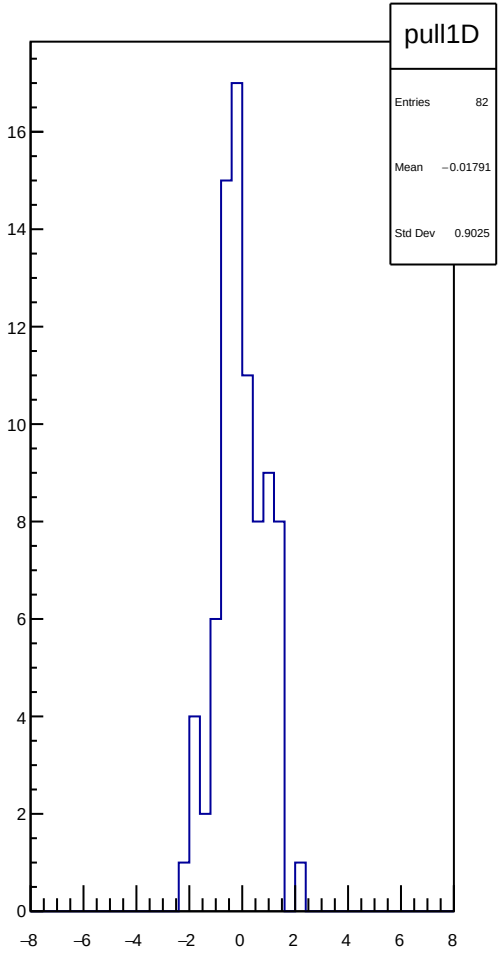

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 4497 / 81
p0 1938 ± 1.519
2300
2200
2100
2000
1900
1800

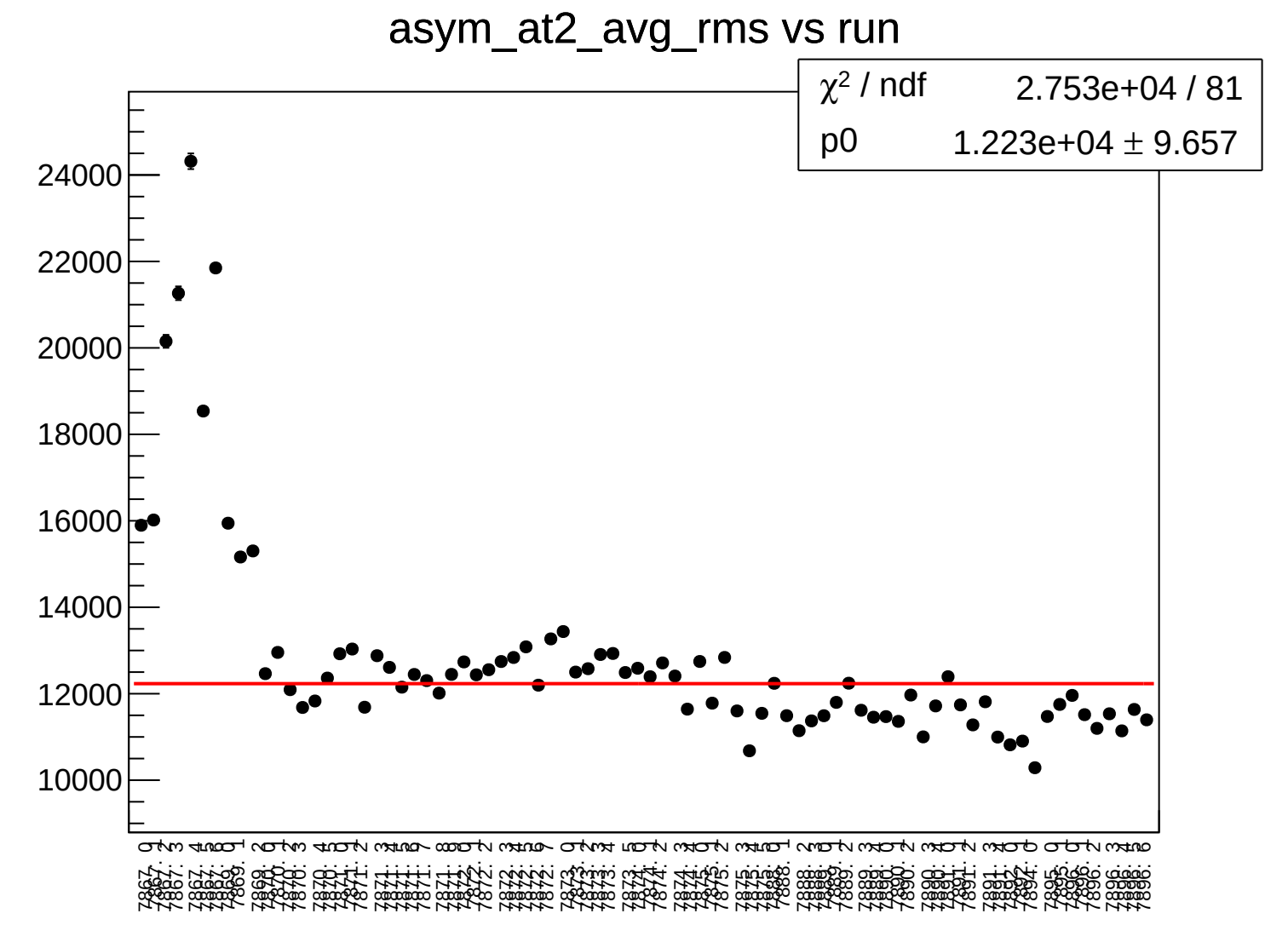

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.02 / 81
p0 6002 ± 1.346e+04
400
200
0
−200
−400
pull
Entries 82
Mean −101.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

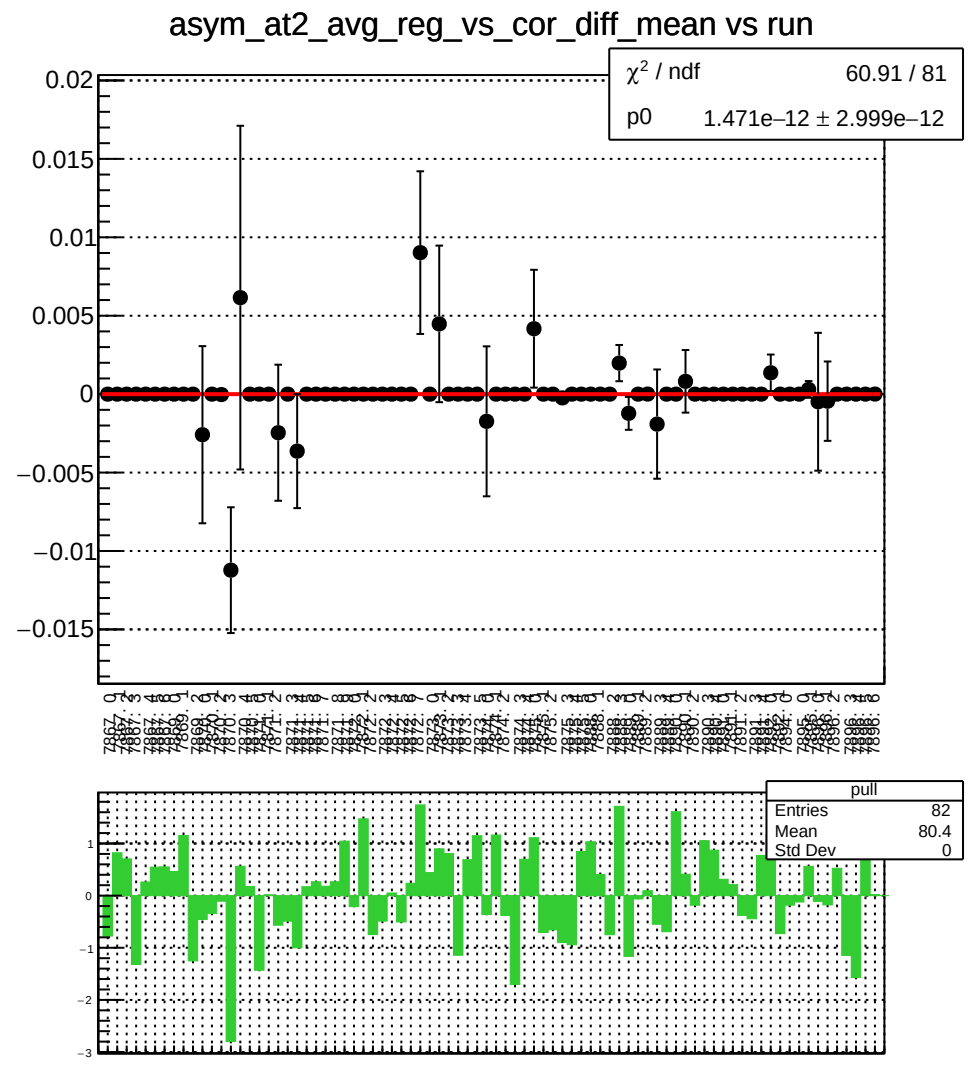

pull1D
Entries 82
Mean 0.0186
Std Dev 0.8971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

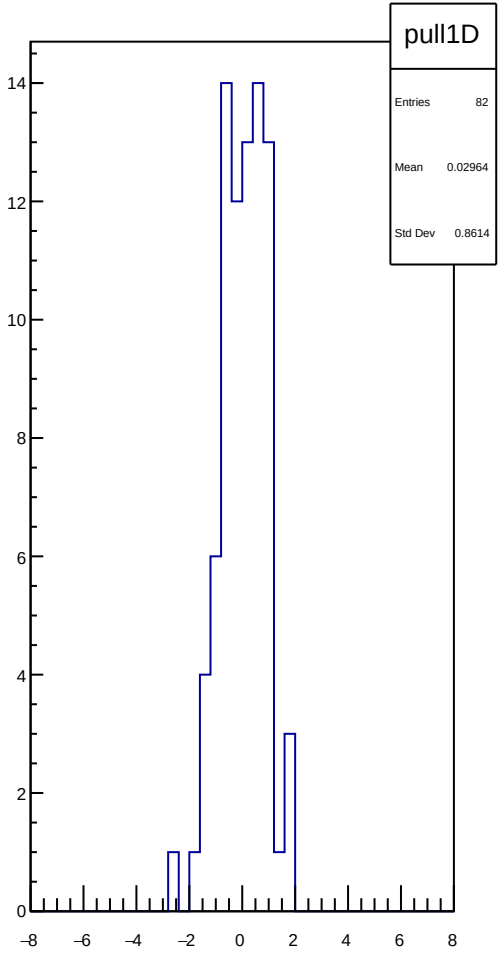

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.863e+04 / 81
p0 1.205e+04 ± 9.515
26000
24000
22000
20000
18000
16000
14000
12000
10000

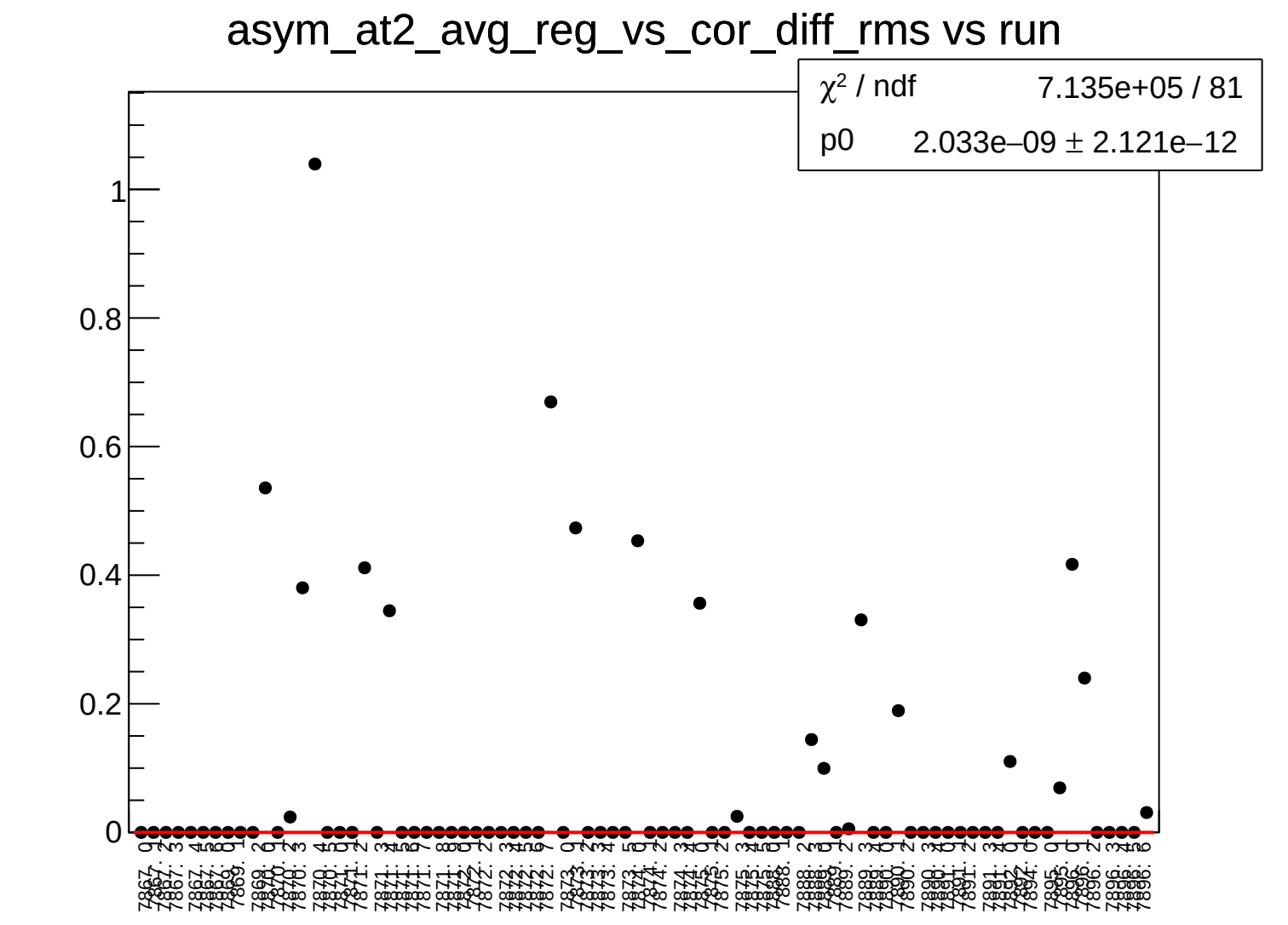

asym_at2_avg_mean vs run
×10^3
χ² / ndf 66.81 / 81
p0 −7772 ± 1.366e+04
400
200
0
−200
−400
pull
Entries 82
Mean −131.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

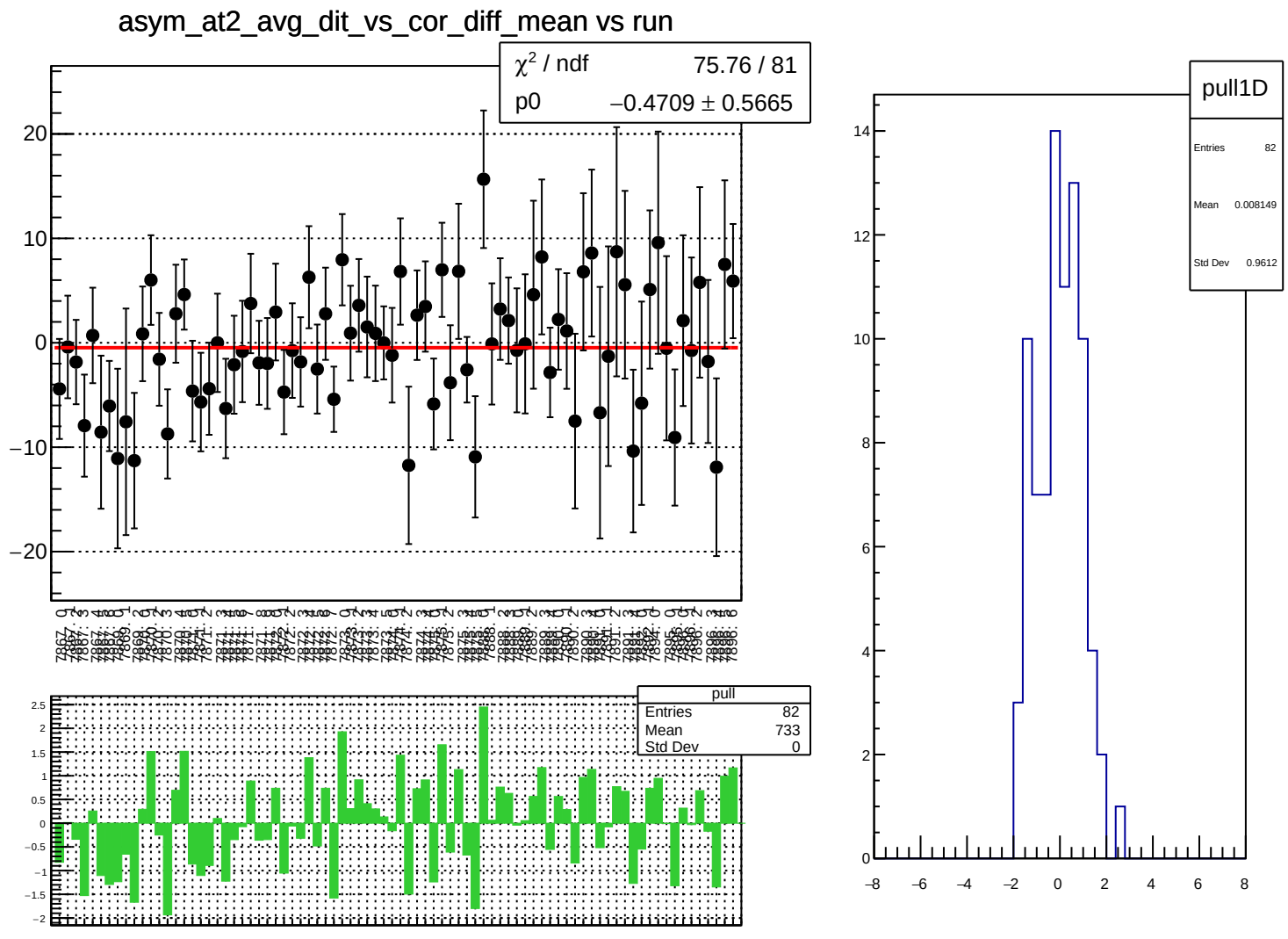

pull1D
Entries 82
Mean −0.01791
Std Dev 0.9025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

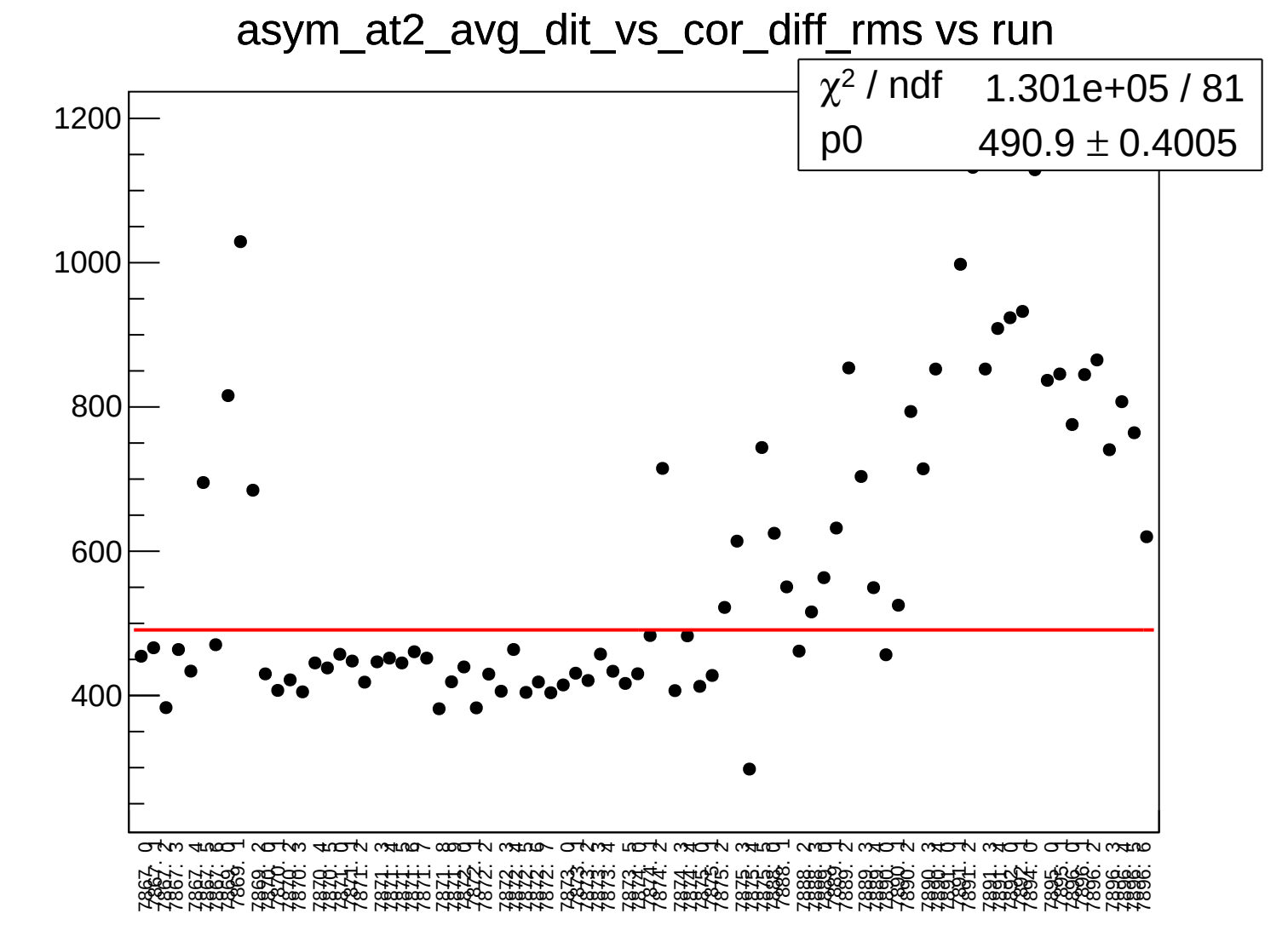

asym_at2_avg_rms vs run
χ^2 / ndf 2.753e+04 / 81
p0 1.223e+04 ± 9.657
24000
22000
20000
18000
16000
14000
12000
10000

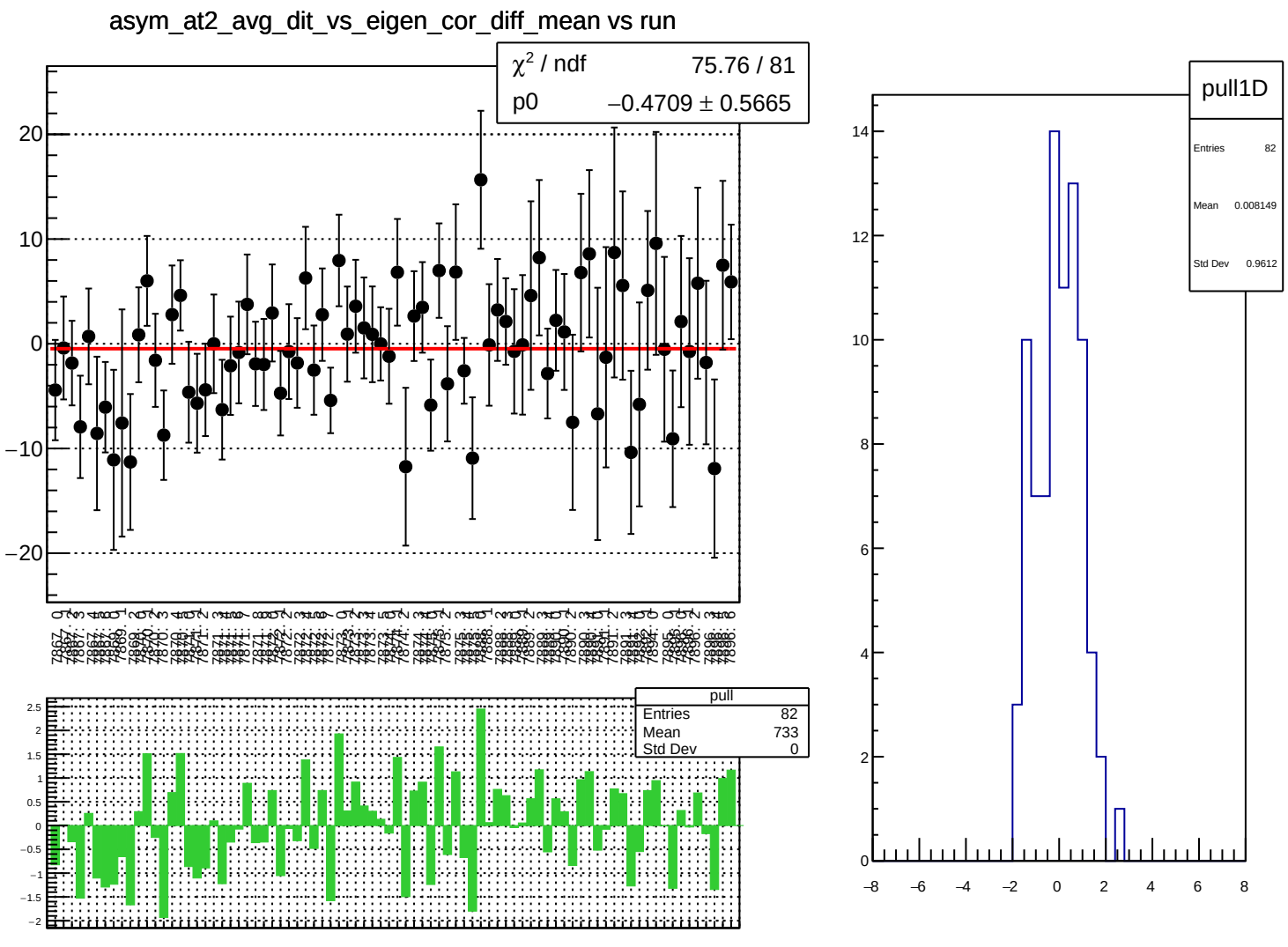

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 60.91 / 81
p0 1.471e−12 ± 2.999e−12
pull
Entries 82
Mean 80.4
Std Dev 0

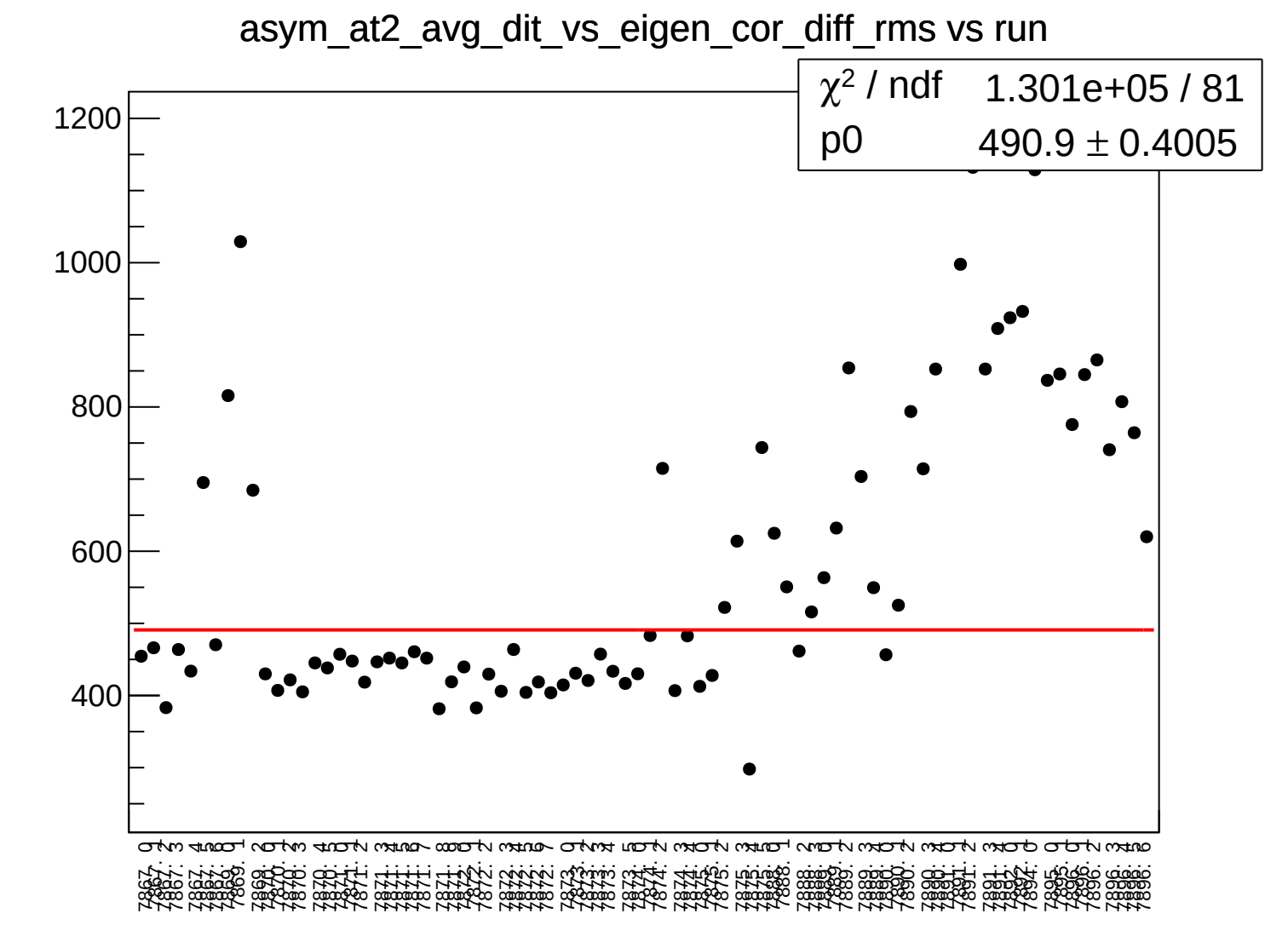

pull1D
Entries 82
Mean 0.02964
Std Dev 0.8614

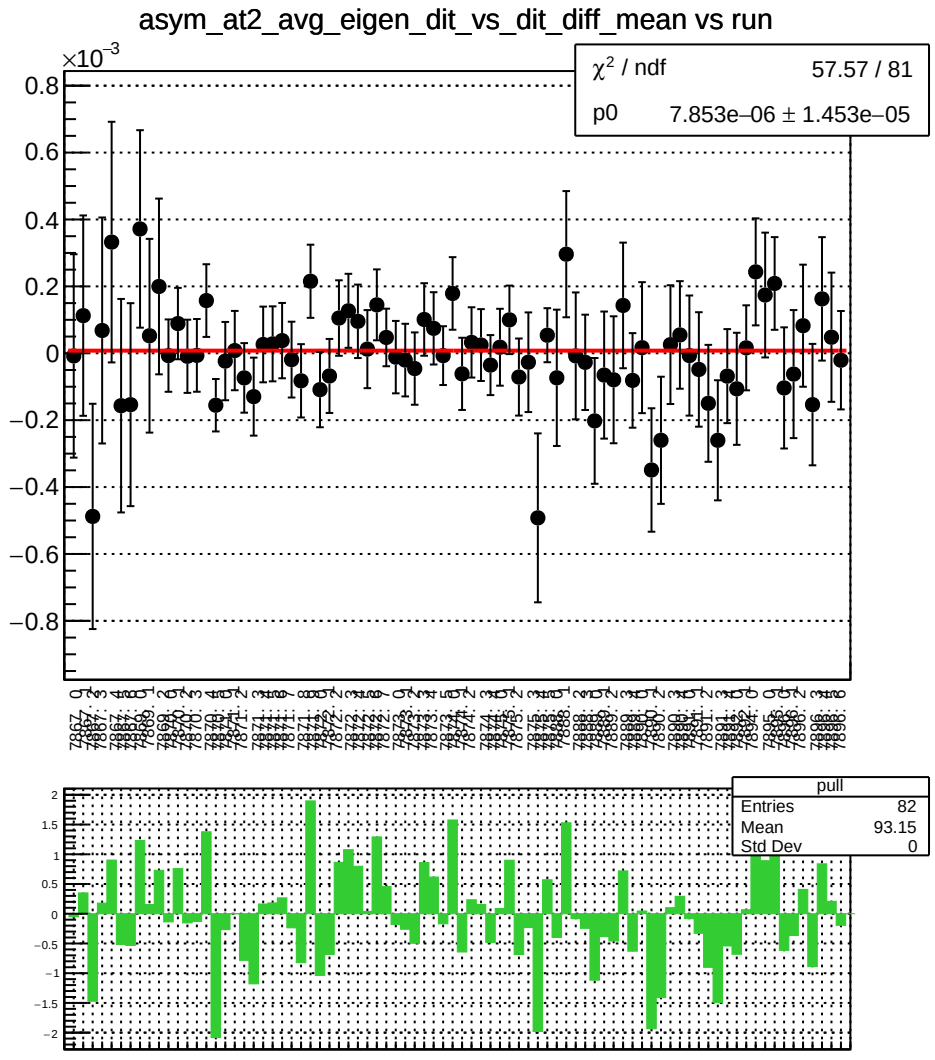

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.135e+05 / 81
p0 2.033e−09 ± 2.121e−12
1
0.8
0.6
0.4
0.2
0

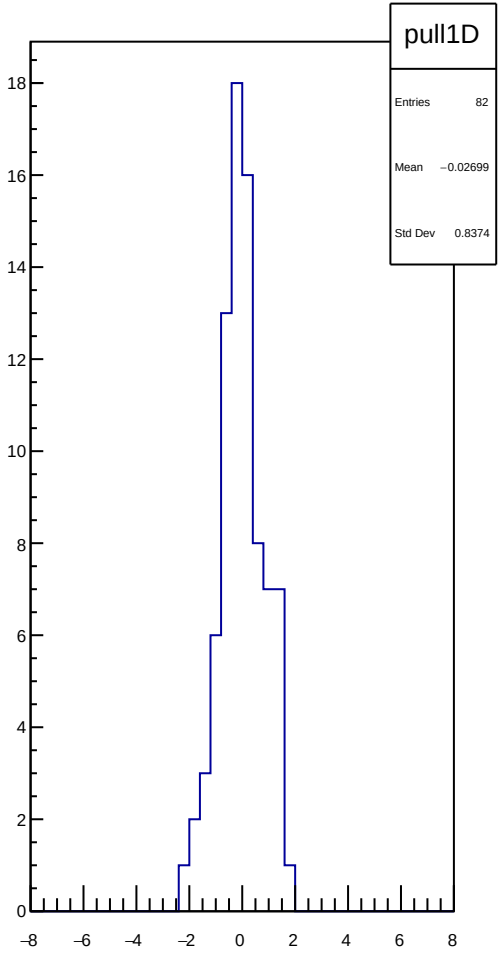

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.76 / 81
p0 −0.4709 ± 0.5665
pull
Entries 82
Mean 733
Std Dev 0
pull1D
Entries 82
Mean 0.008149
Std Dev 0.9612

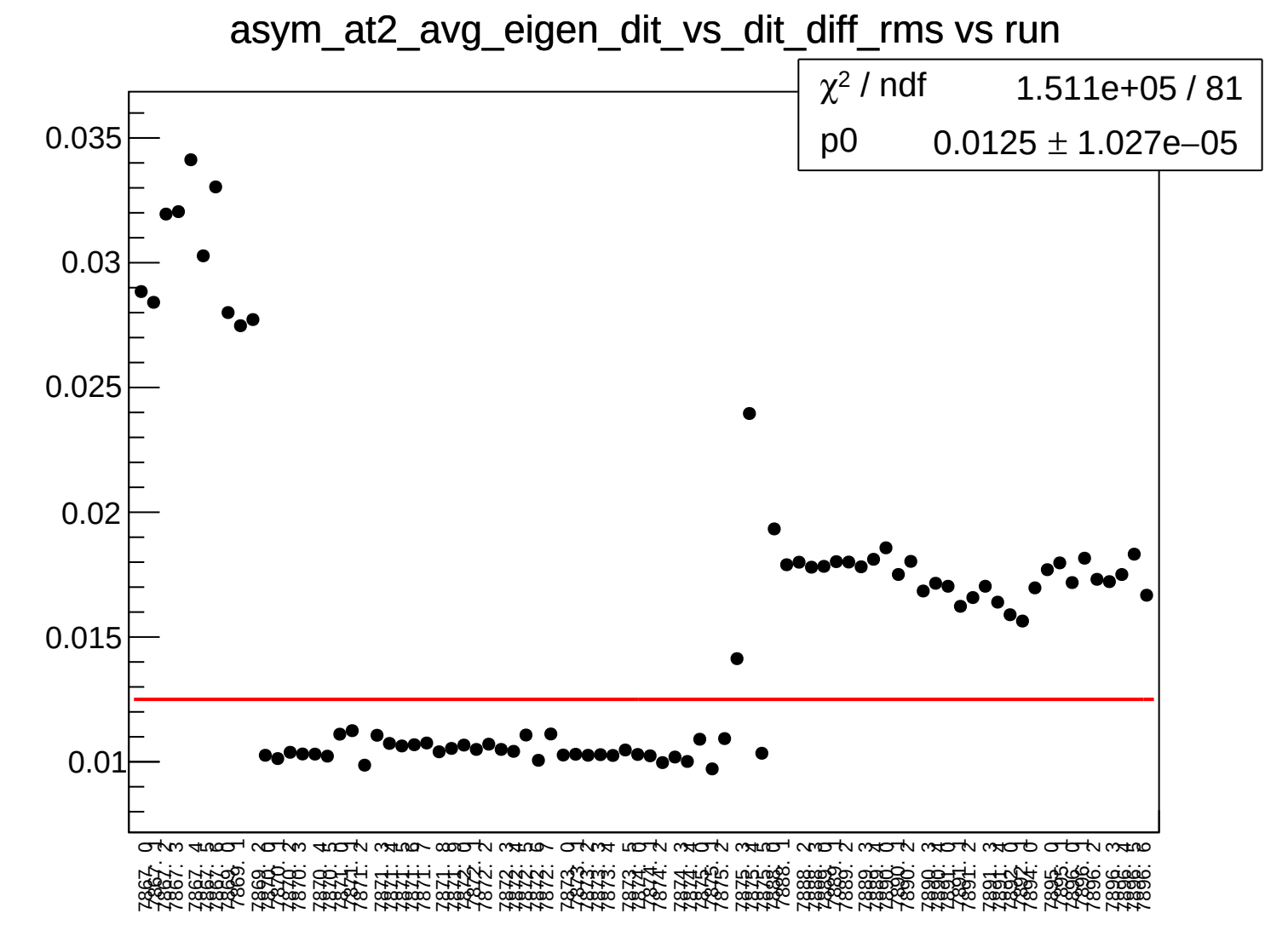

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.301e+05 / 81
p0 490.9 ± 0.4005
1200
1000
800
600
400

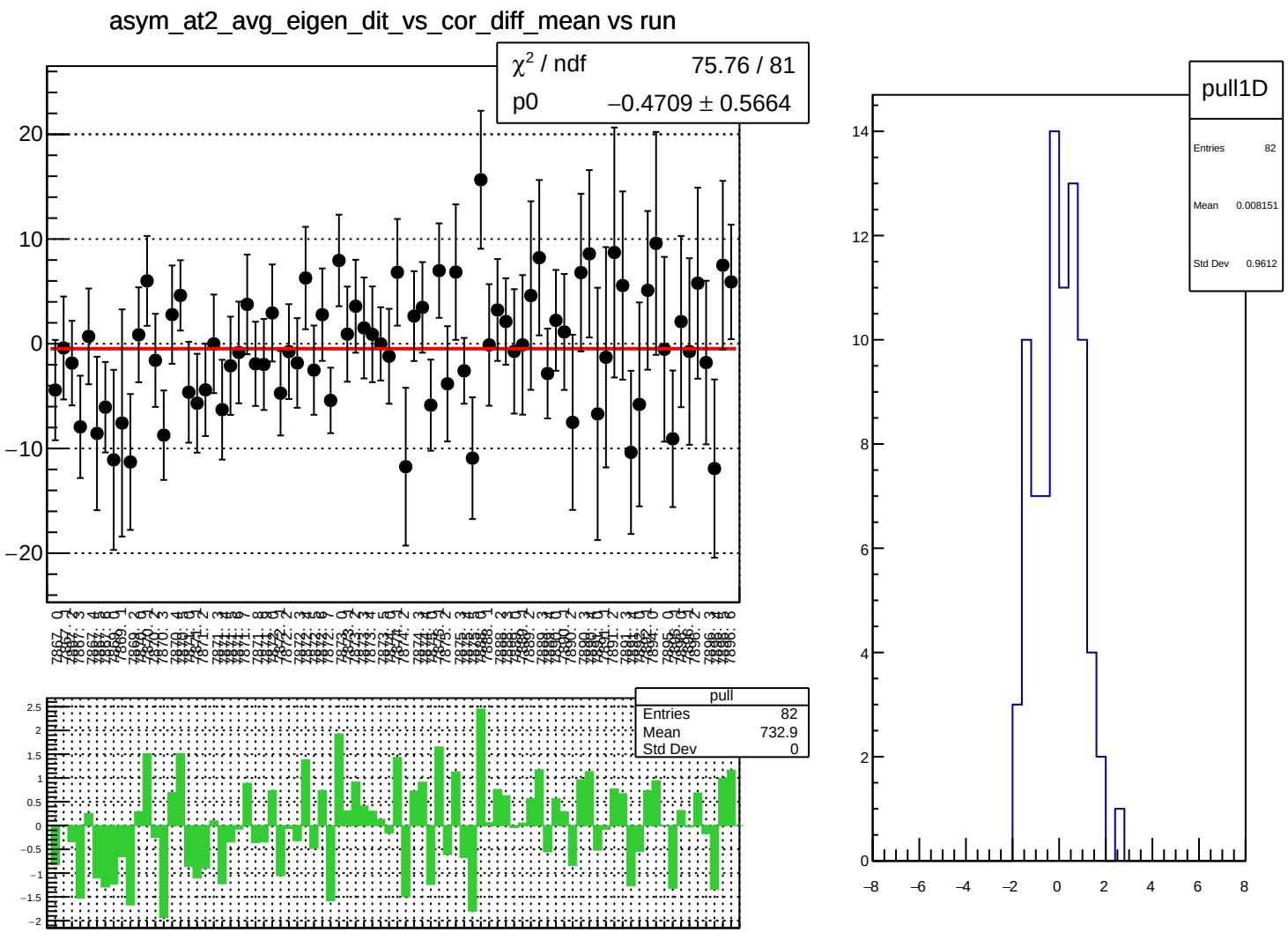

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.76 / 81
p0 −0.4709 ± 0.5665
pull
Entries 82
Mean 733
Std Dev 0
pull1D
Entries 82
Mean 0.008149
Std Dev 0.9612

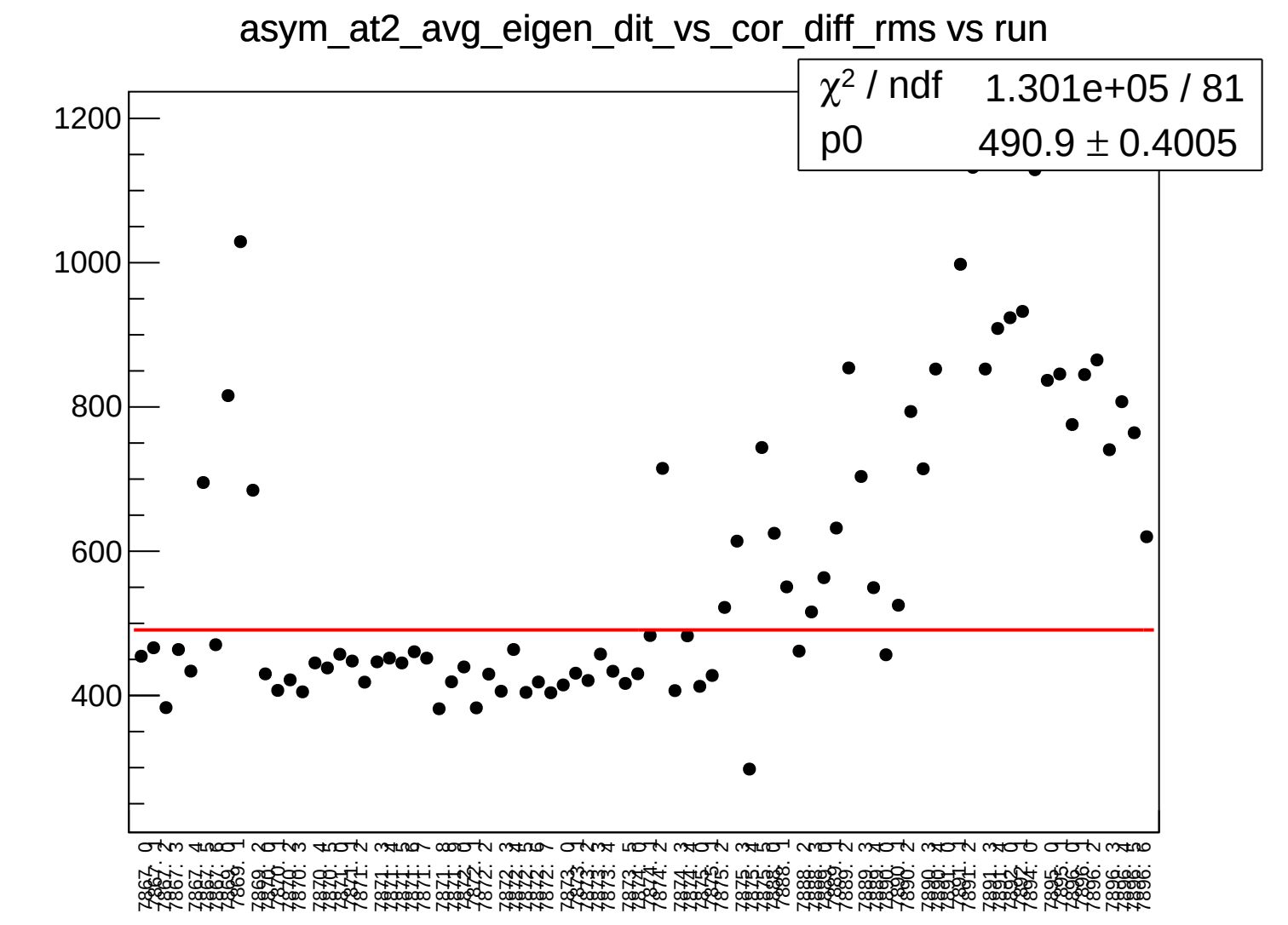

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.301e+05 / 81
p0 490.9 ± 0.4005
1200
1000
800
600
400

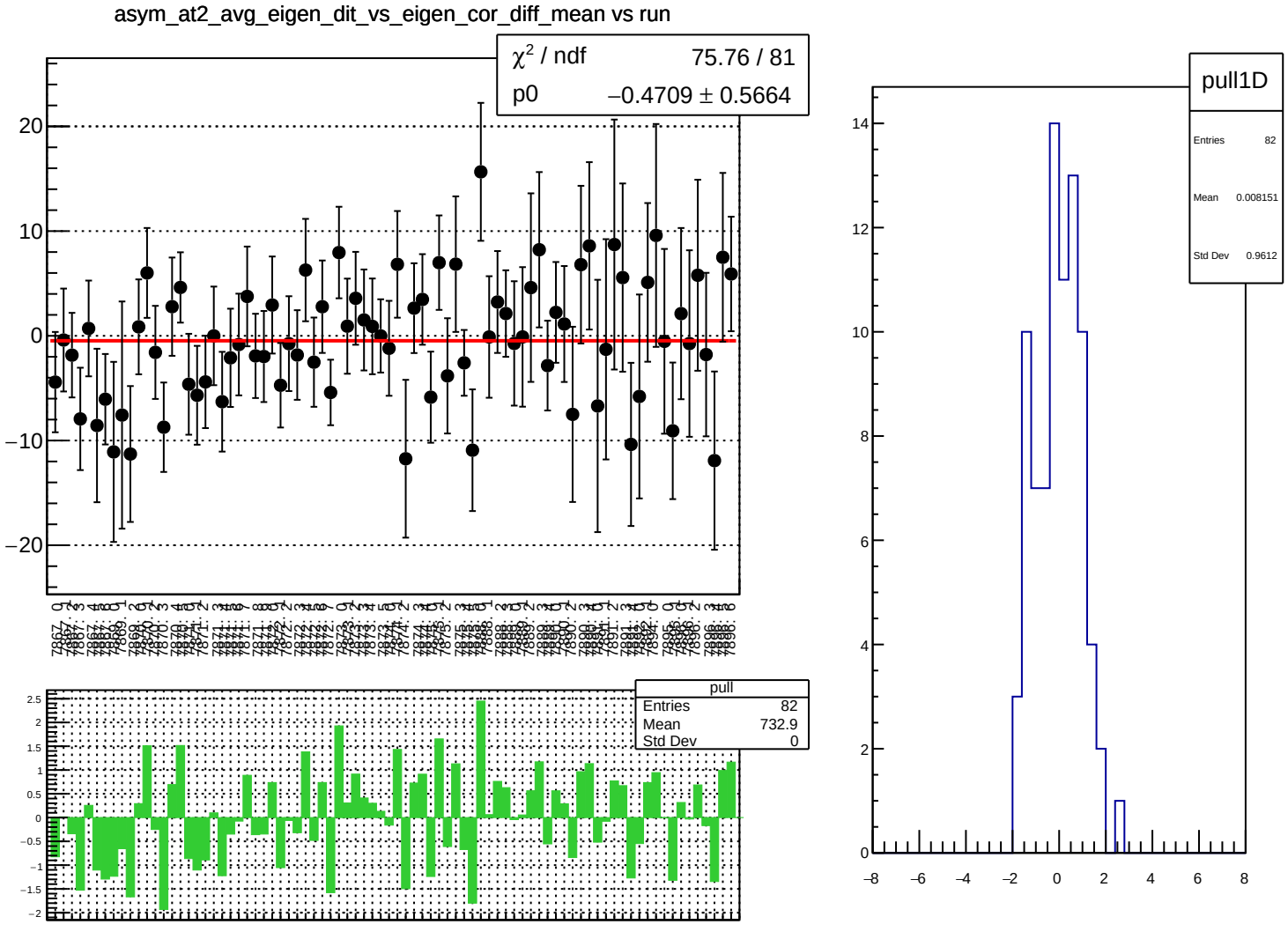

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.57 / 81
p0 7.853e−06 ± 1.453e−05
pull
Entries 82
Mean 93.15
Std Dev 0

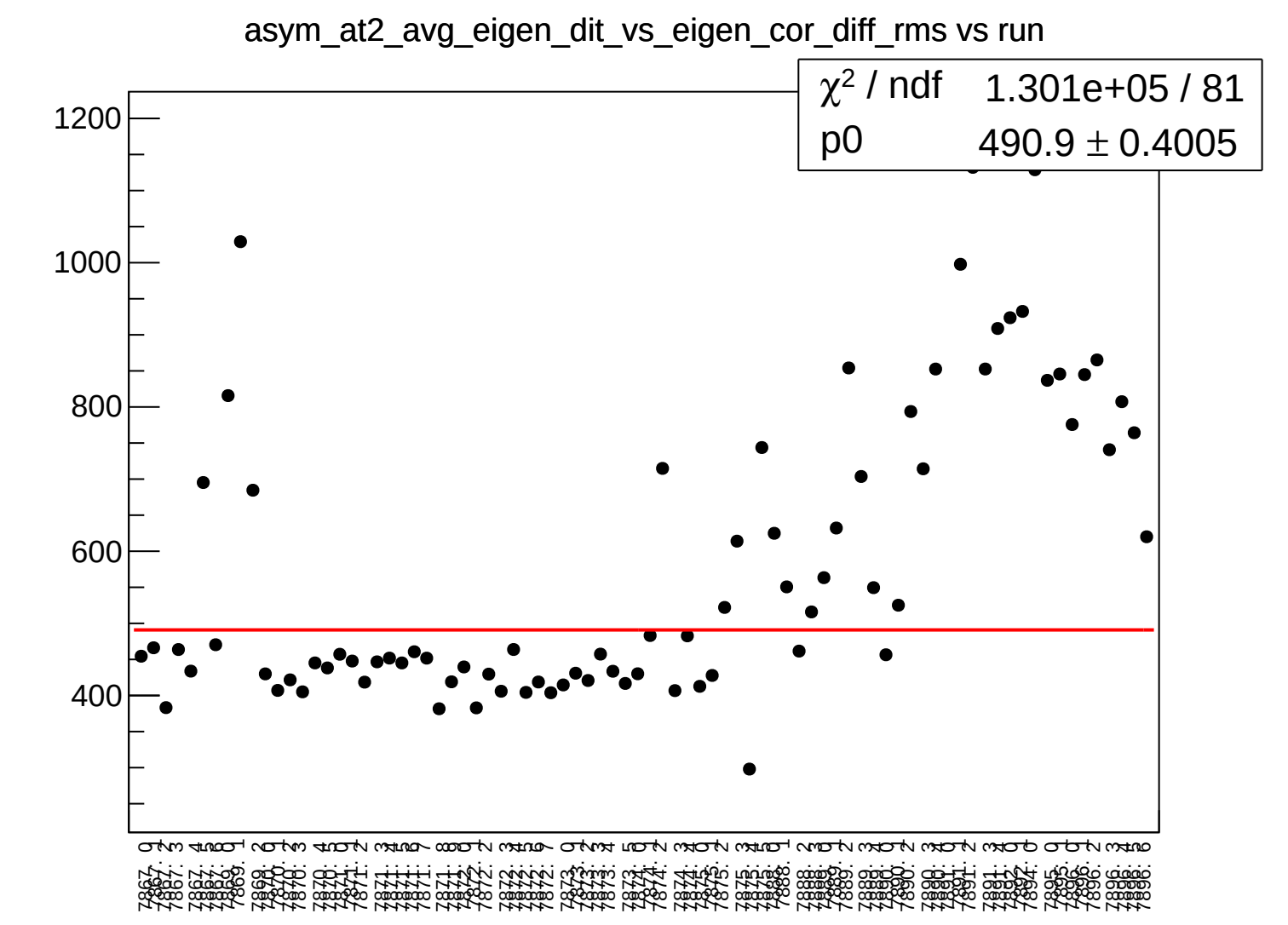

pull1D
Entries 82
Mean −0.02699
Std Dev 0.8374

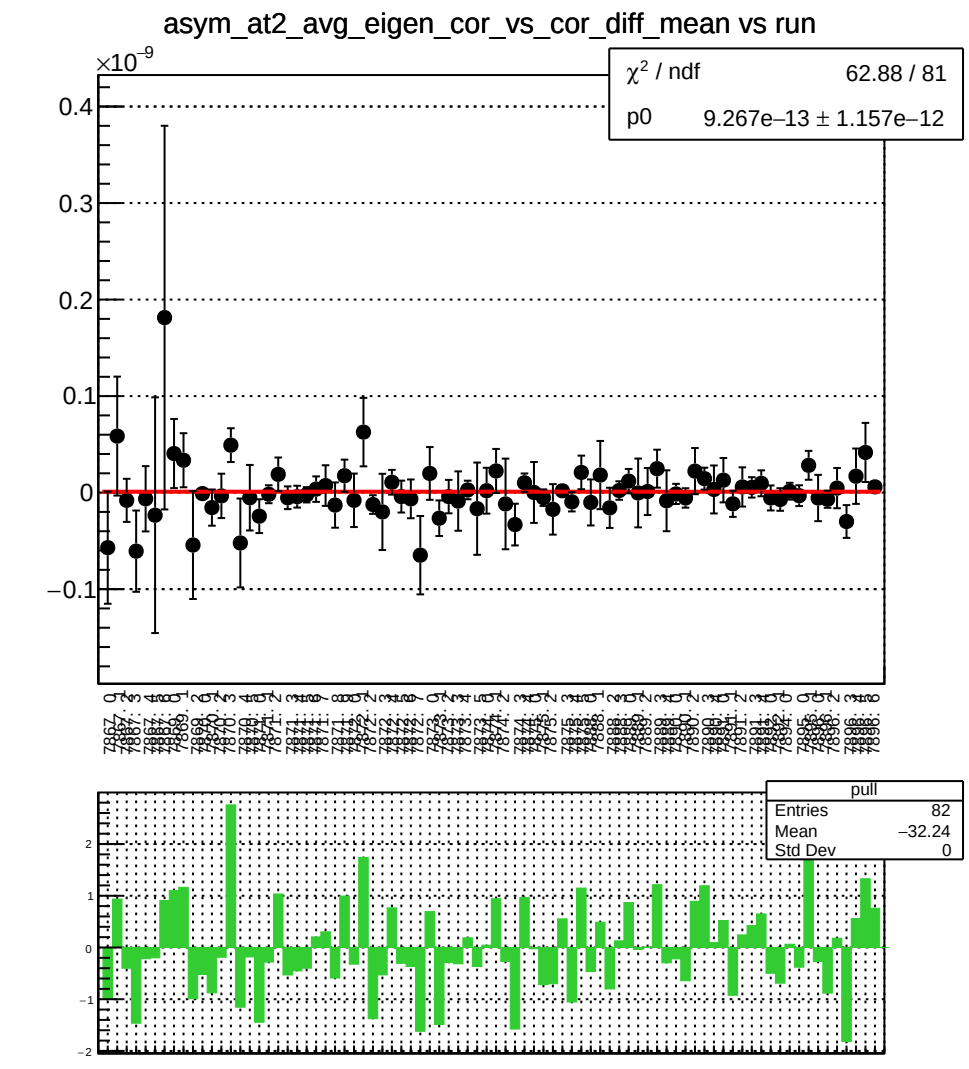

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.511e+05 / 81
p0 0.0125 ± 1.027e−05
0.035
0.03
0.025
0.02
0.015
0.01

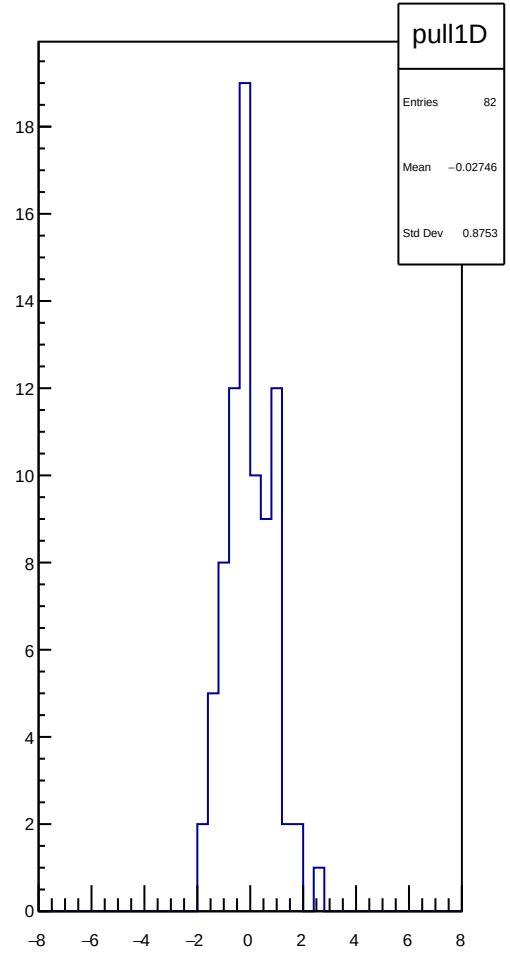

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.76 / 81
p0 −0.4709 ± 0.5664
pull
Entries 82
Mean 732.9
Std Dev 0
pull1D
Entries 82
Mean 0.008151
Std Dev 0.9612

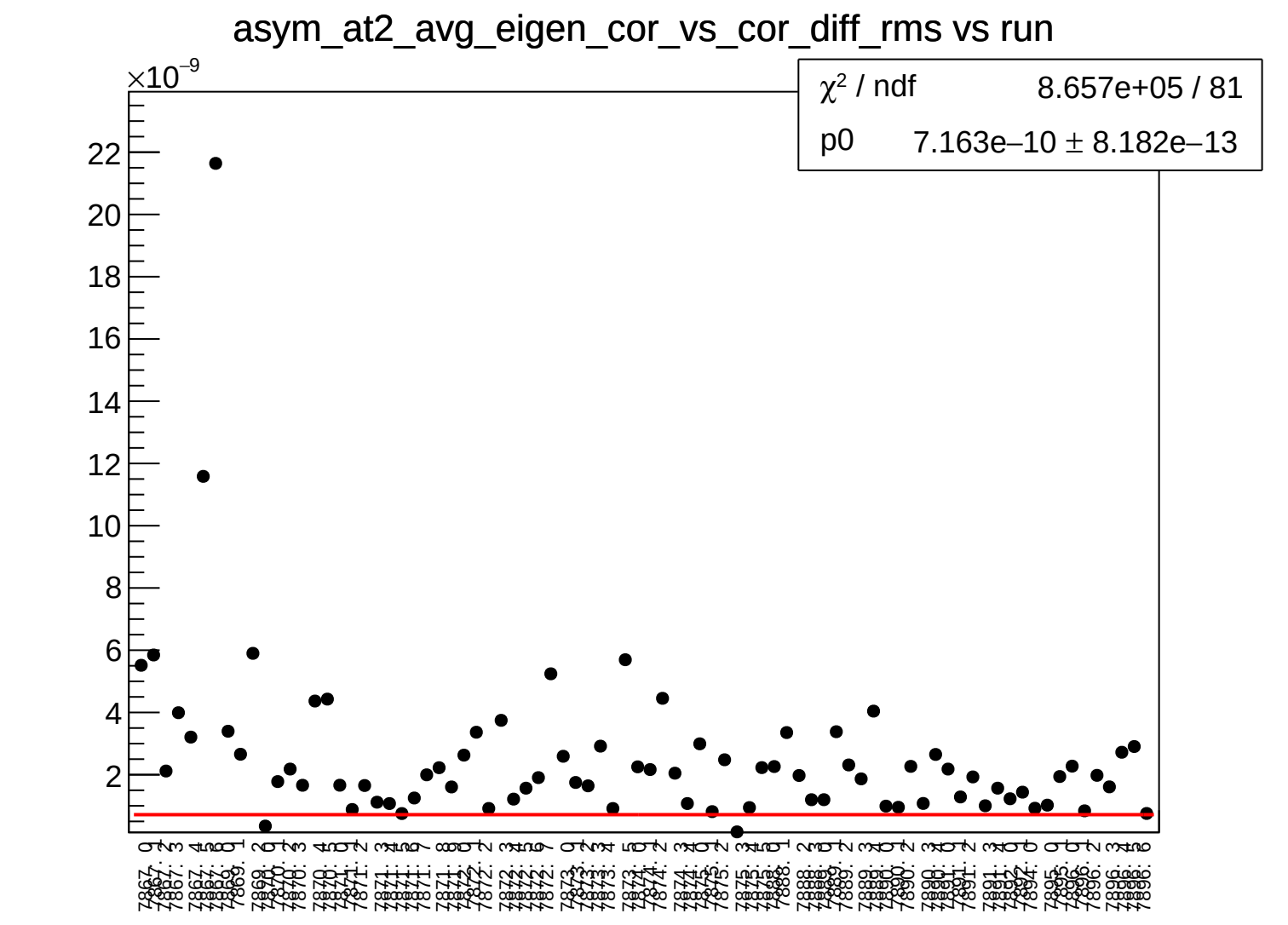

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.301e+05 / 81
p0 490.9 ± 0.4005
1200
1000
800
600
400

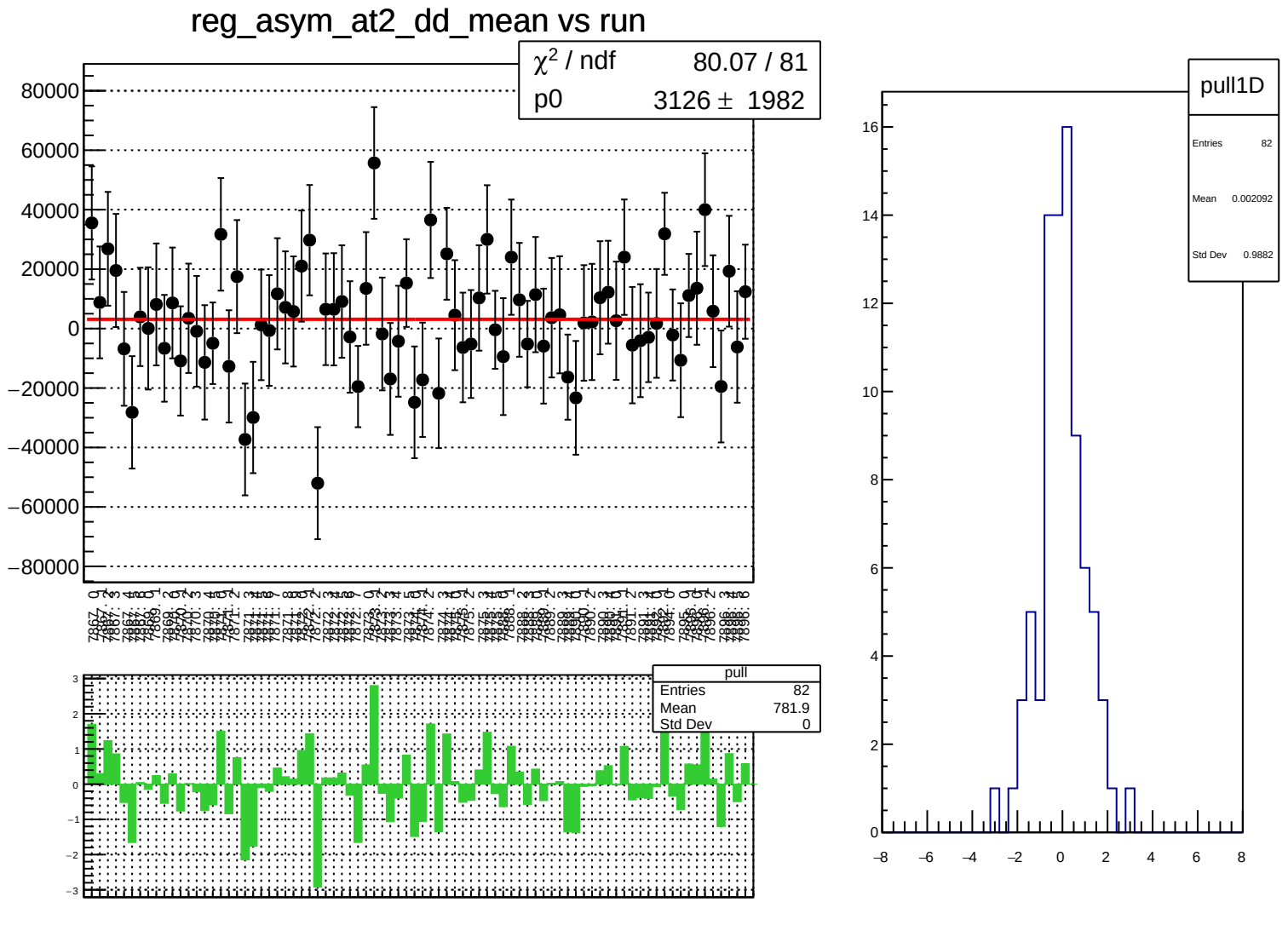

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.76 / 81
p0 −0.4709 ± 0.5664
pull
Entries 82
Mean 732.9
Std Dev 0
pull1D
Entries 82
Mean 0.008151
Std Dev 0.9612

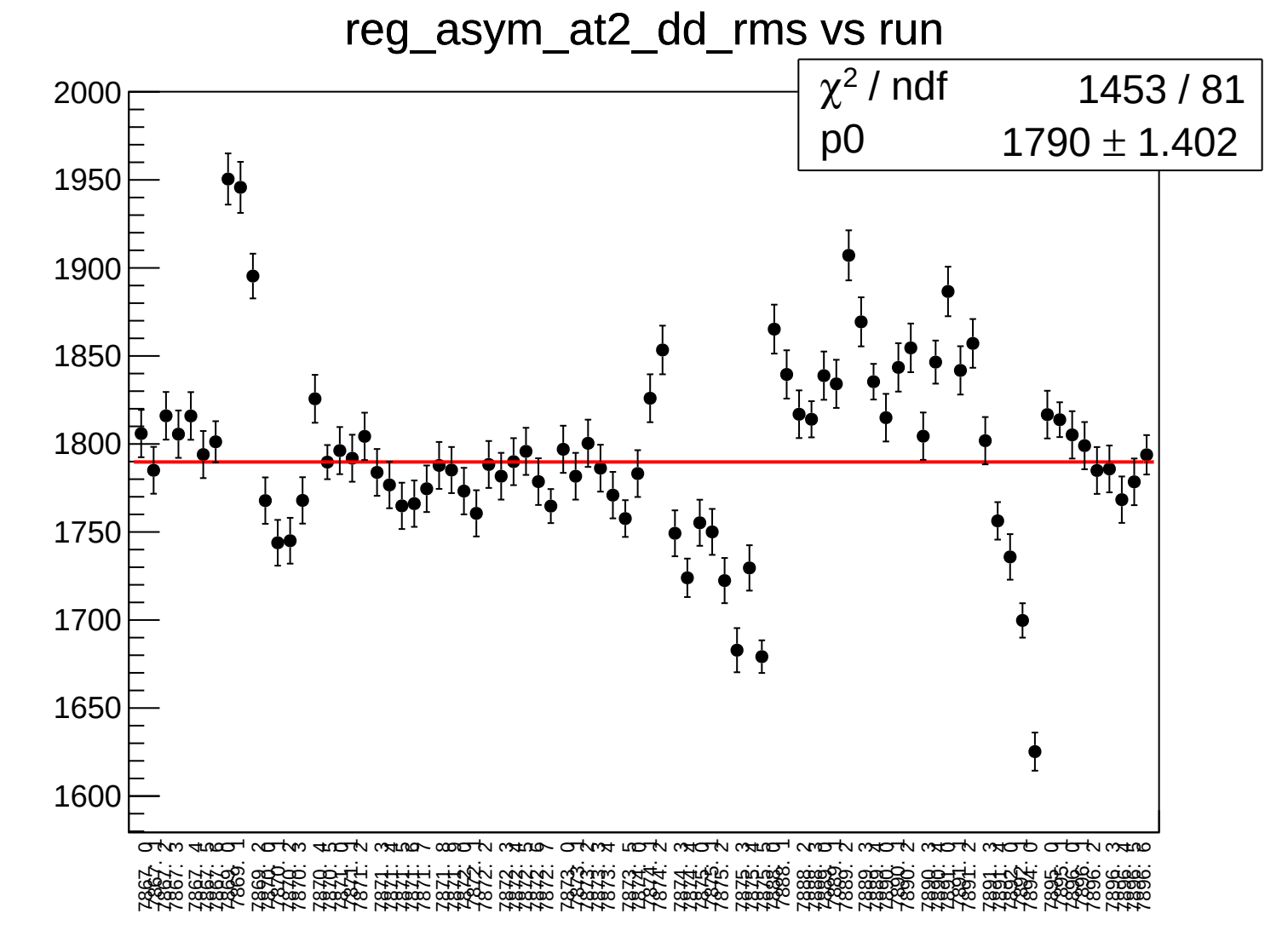

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.301e+05 / 81
p0 490.9 ± 0.4005
1200
1000
800
600
400

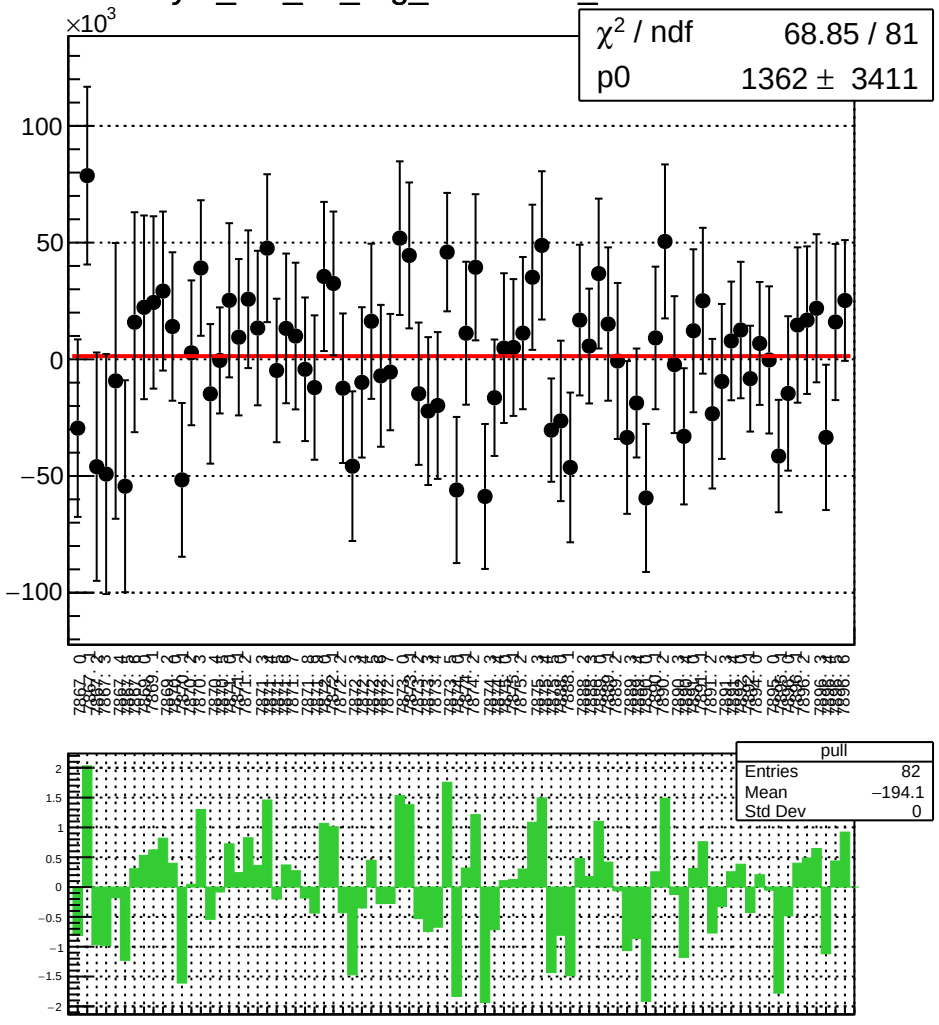

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 62.88 / 81
p0 9.267e−13 ± 1.157e−12
pull
Entries 82
Mean −32.24
Std Dev 0

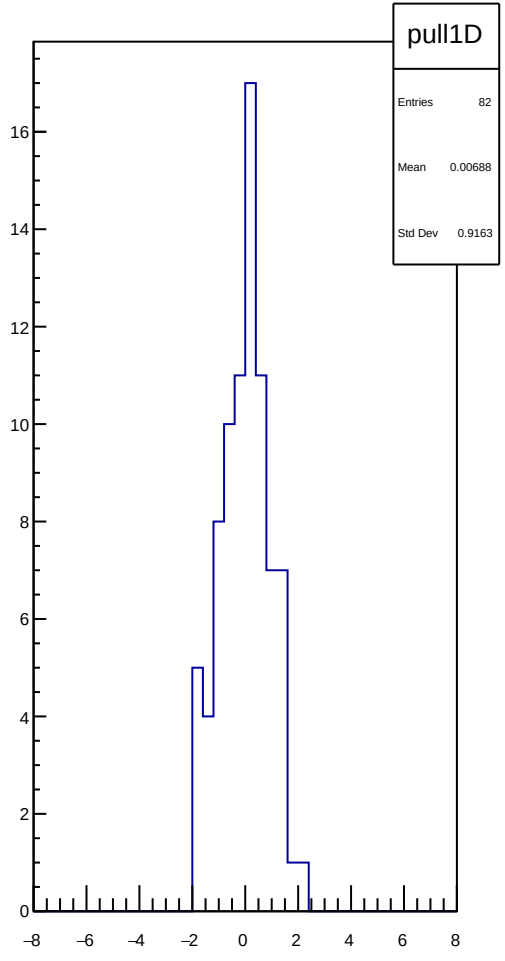

pull1D
Entries 82
Mean −0.02746
Std Dev 0.8753

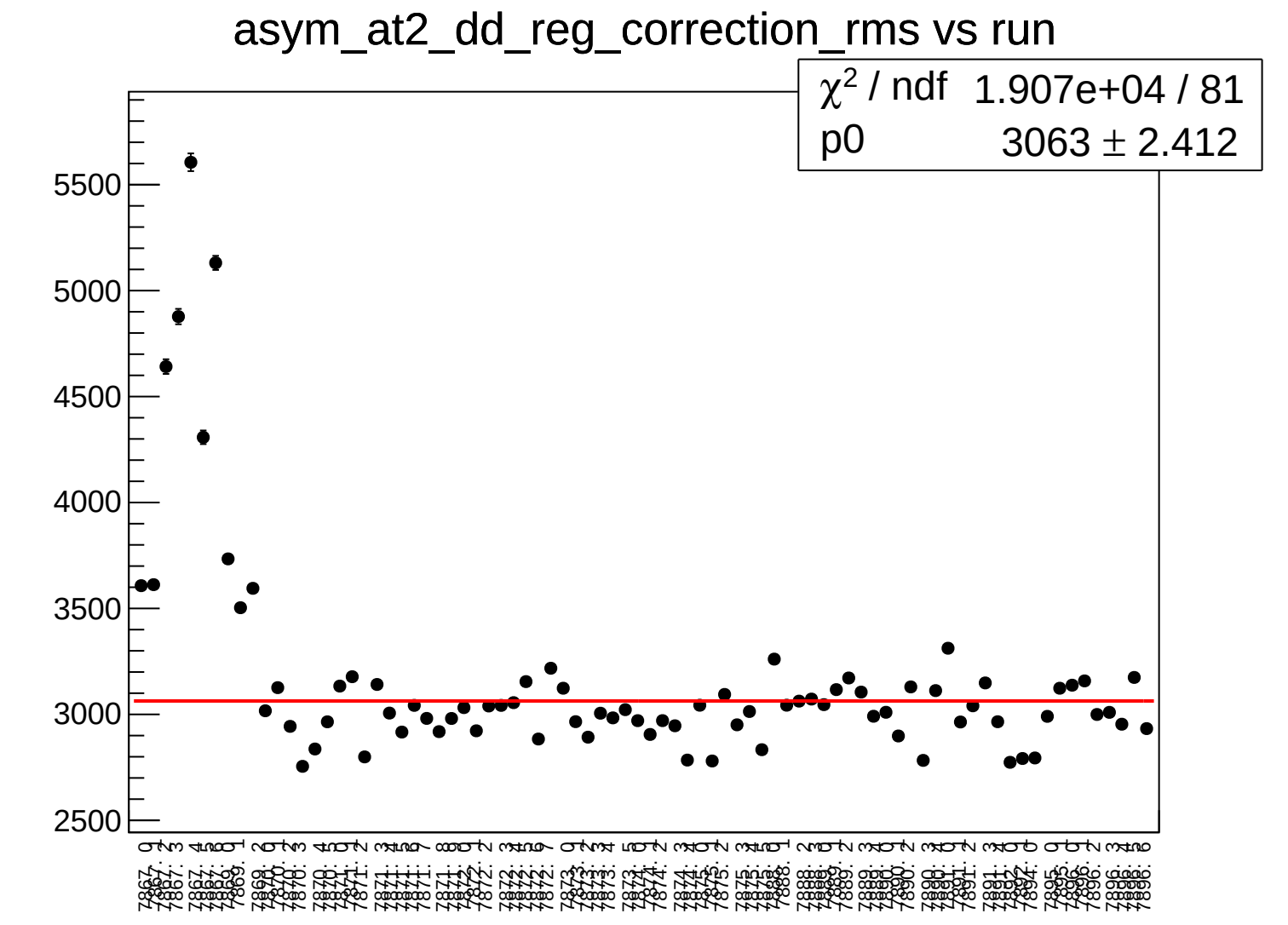

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.657e+05 / 81
p0 7.163e−10 ± 8.182e−13
22
20
18
16
14
12
10
8
6
4
2

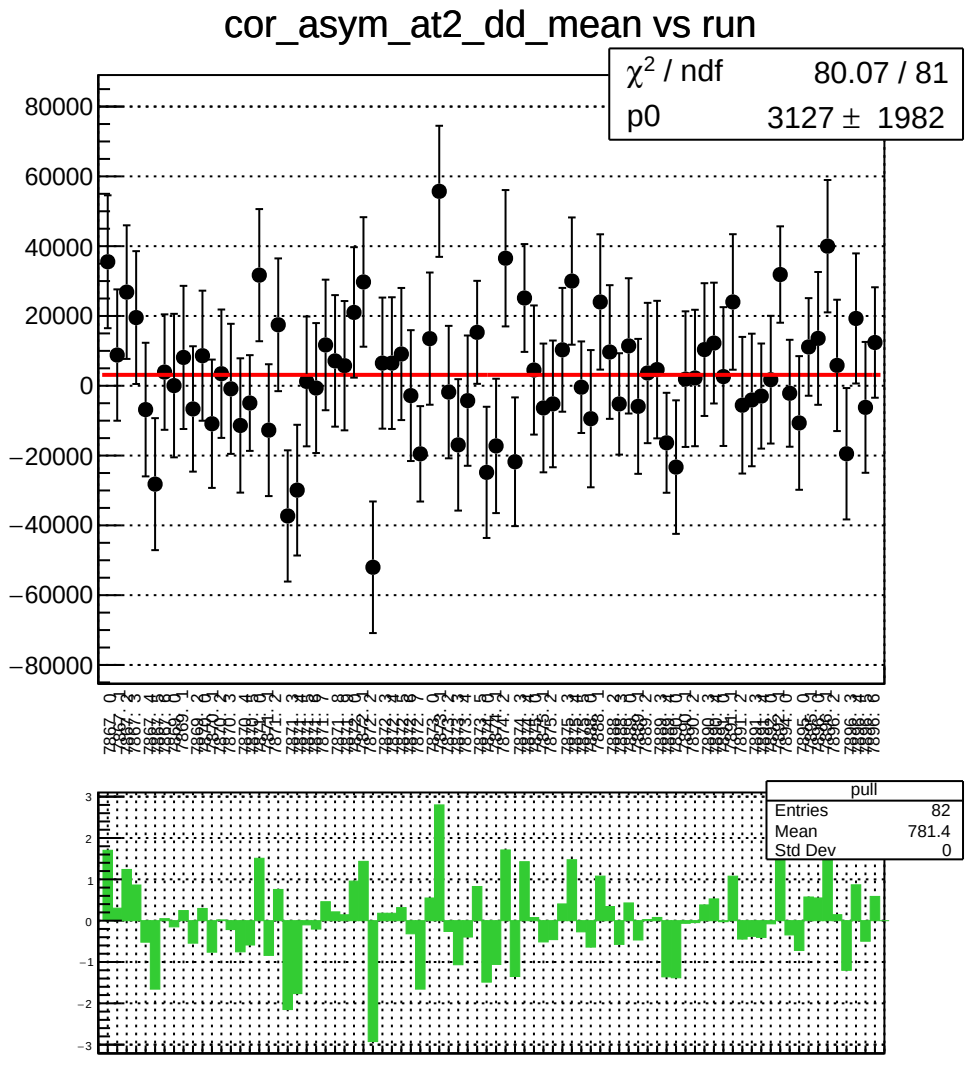

reg_asym_at2_dd_mean vs run
χ² / ndf 80.07 / 81
p0 3126 ± 1982
pull
Entries 82
Mean 781.9
Std Dev 0
pull1D
Entries 82
Mean 0.002092
Std Dev 0.9882

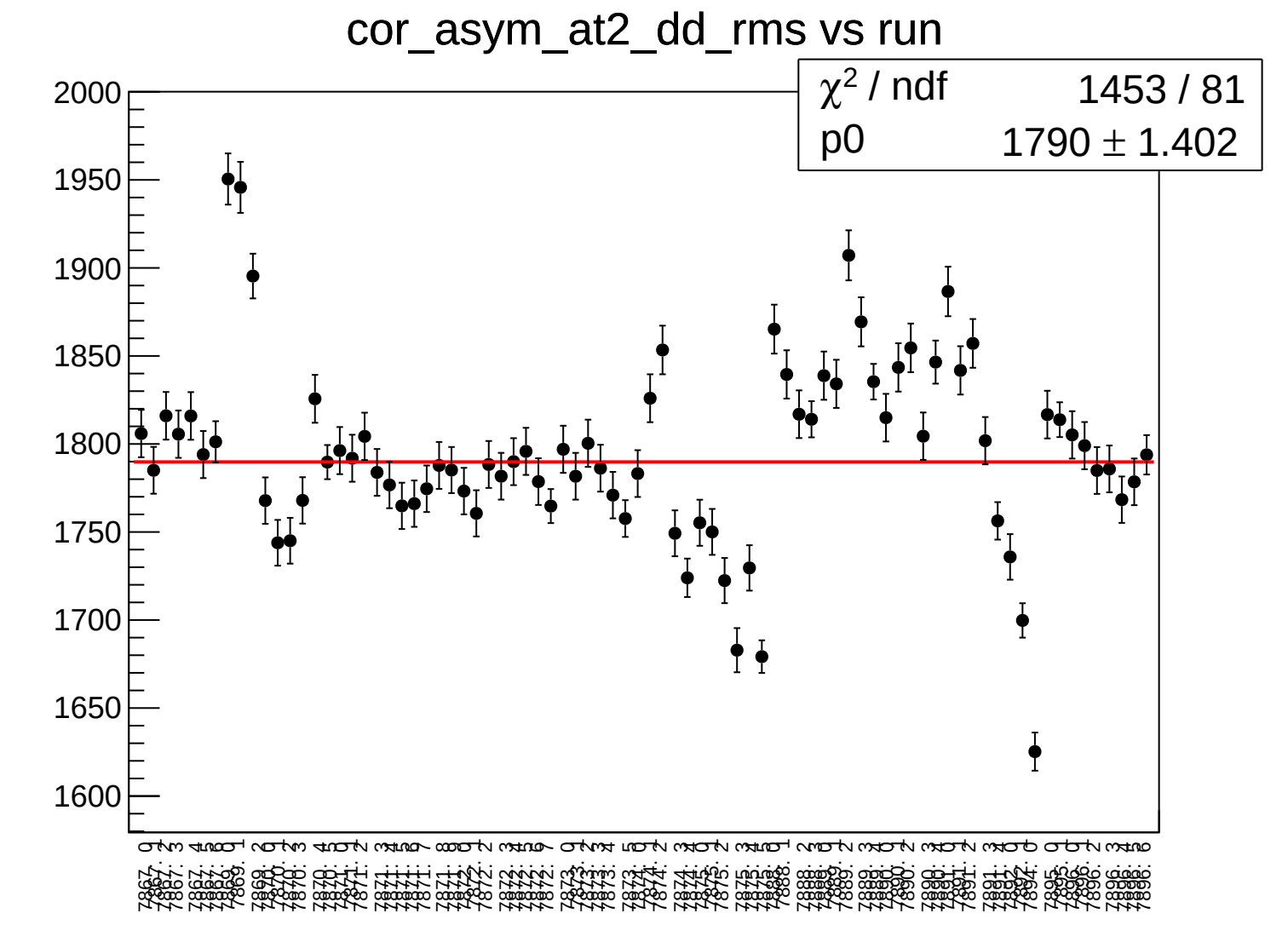

reg_asym_at2_dd_rms vs run
χ² / ndf 1453 / 81
p0 1790 ± 1.402
2000
1950
1900
1850
1800
1750
1700
1650
1600

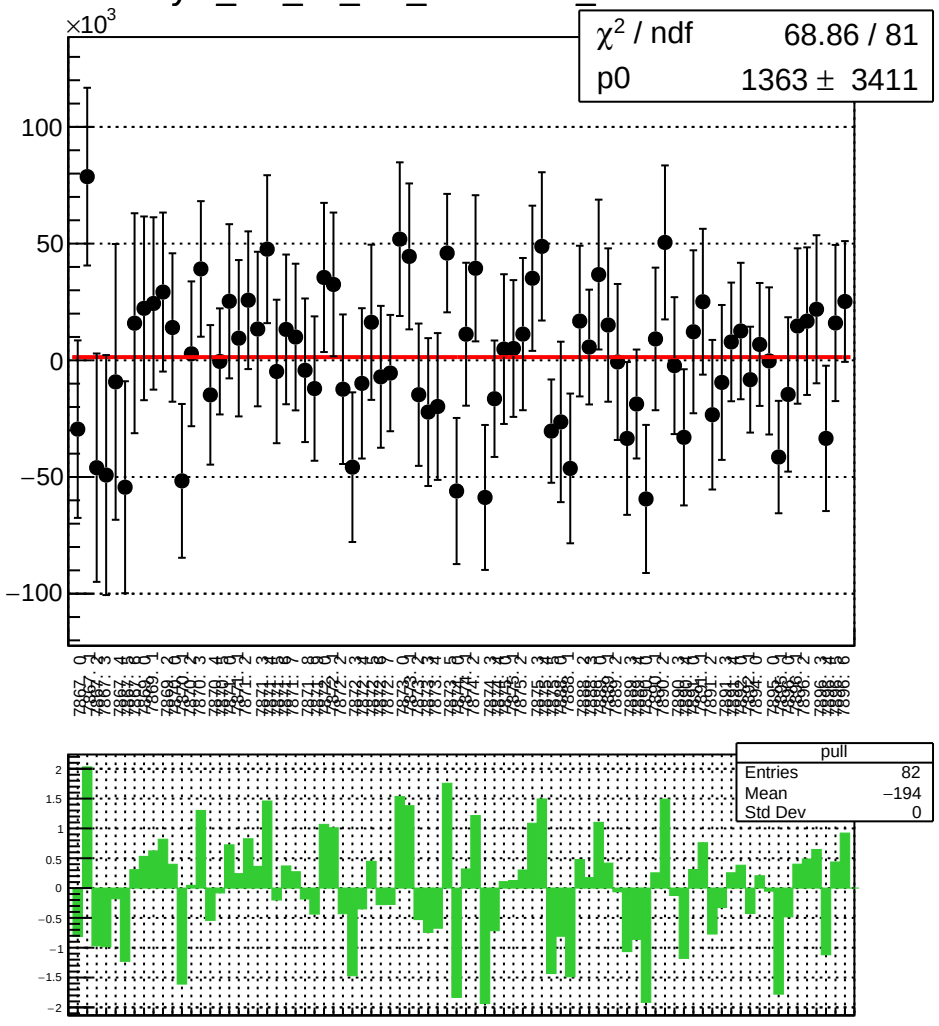

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 68.85 / 81
p0 1362 ± 3411
×10³
100
50
0
−50
−100
pull
Entries 82
Mean −194.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

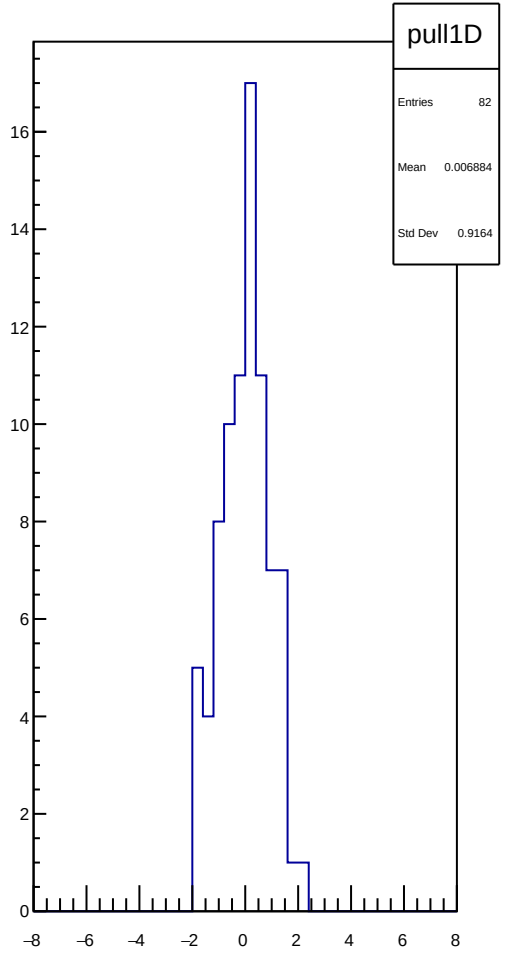

pull1D
Entries 82
Mean 0.00688
Std Dev 0.9163
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

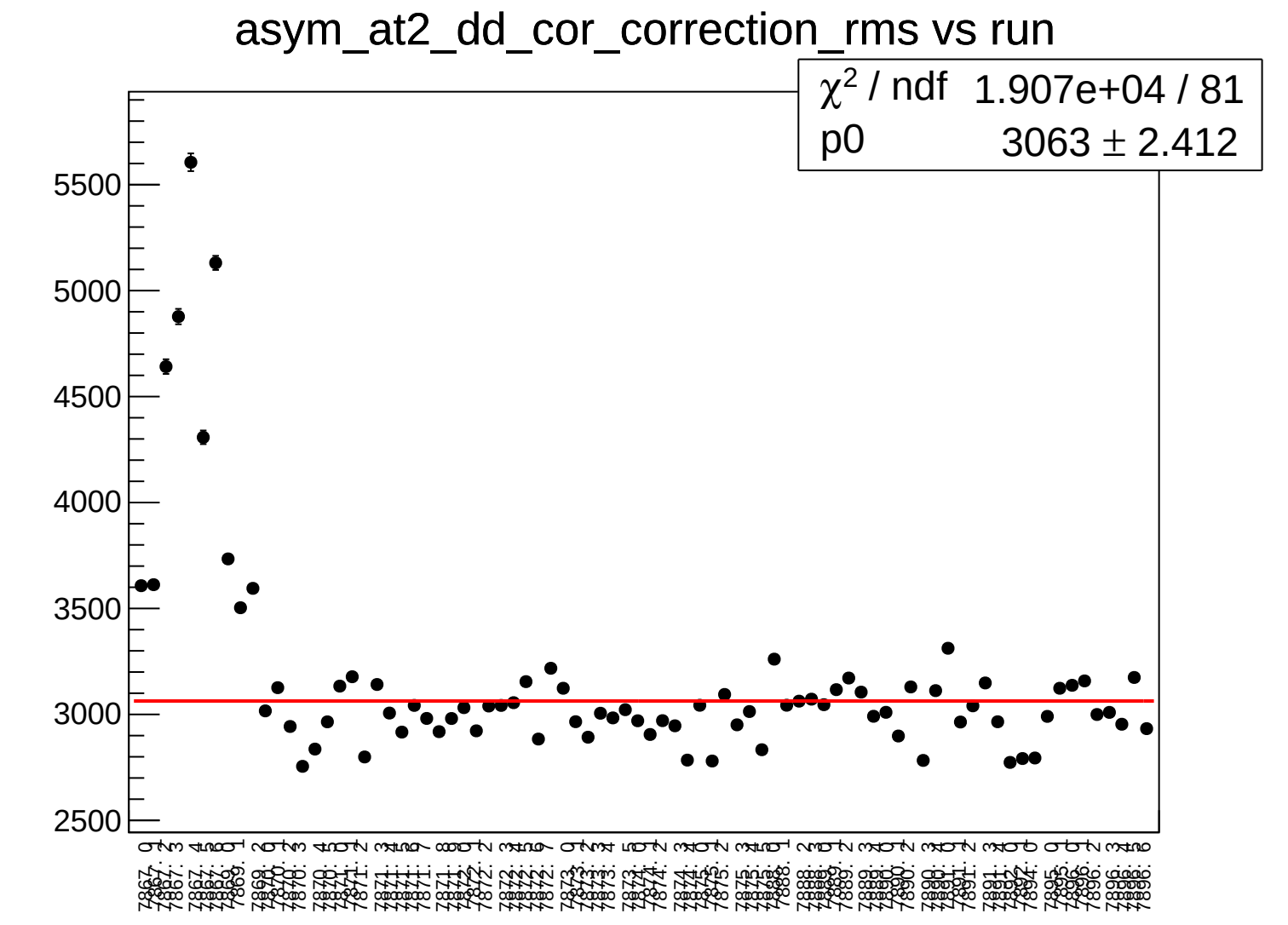

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.907e+04 / 81
p0 3063 ± 2.412
5500
5000
4500
4000
3500
3000
2500

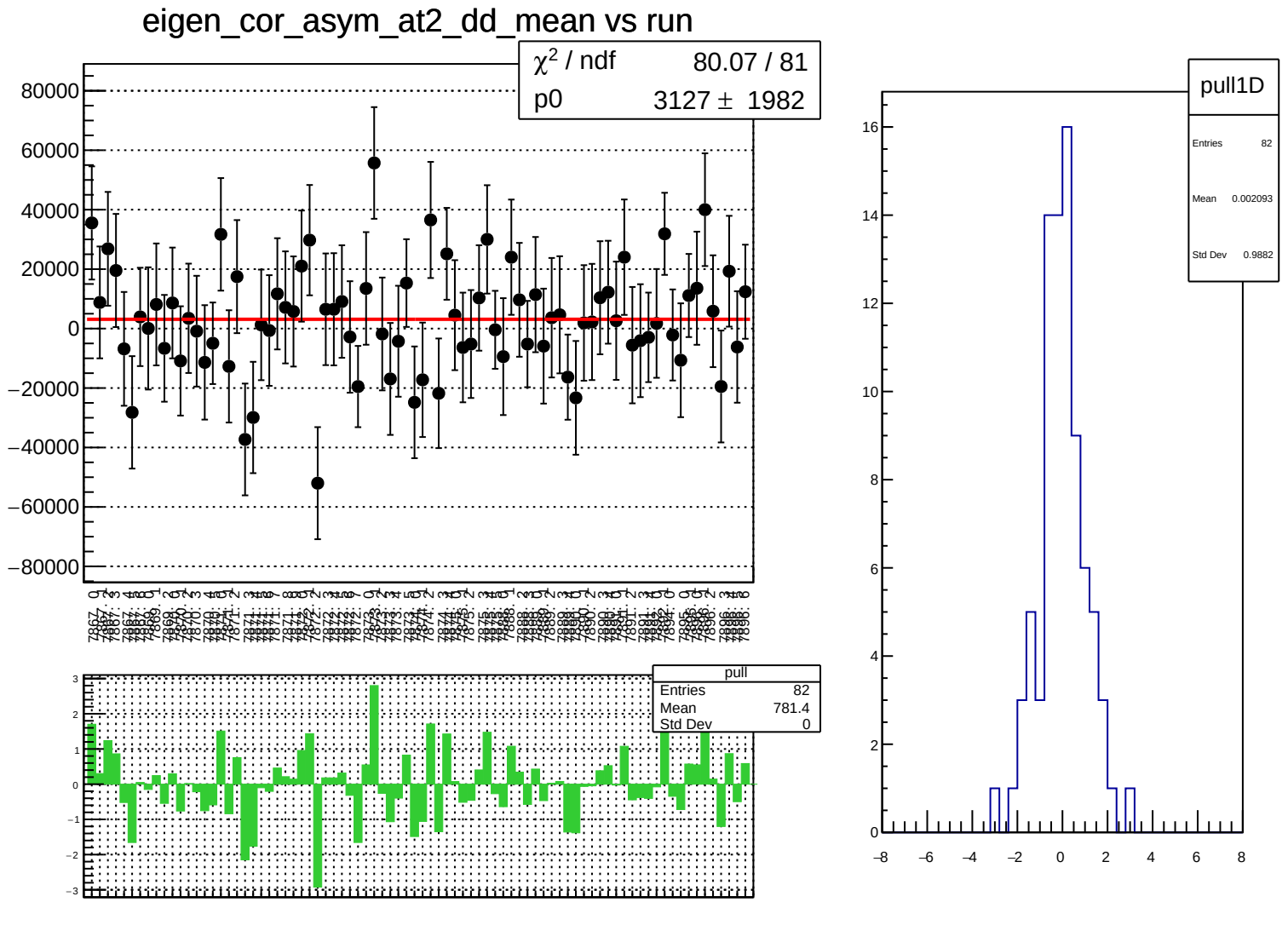

cor_asym_at2_dd_mean vs run
χ² / ndf 80.07 / 81
p0 3127 ± 1982
pull
Entries 82
Mean 781.4
Std Dev 0
pull1D
Entries 82
Mean 0.002093
Std Dev 0.9882

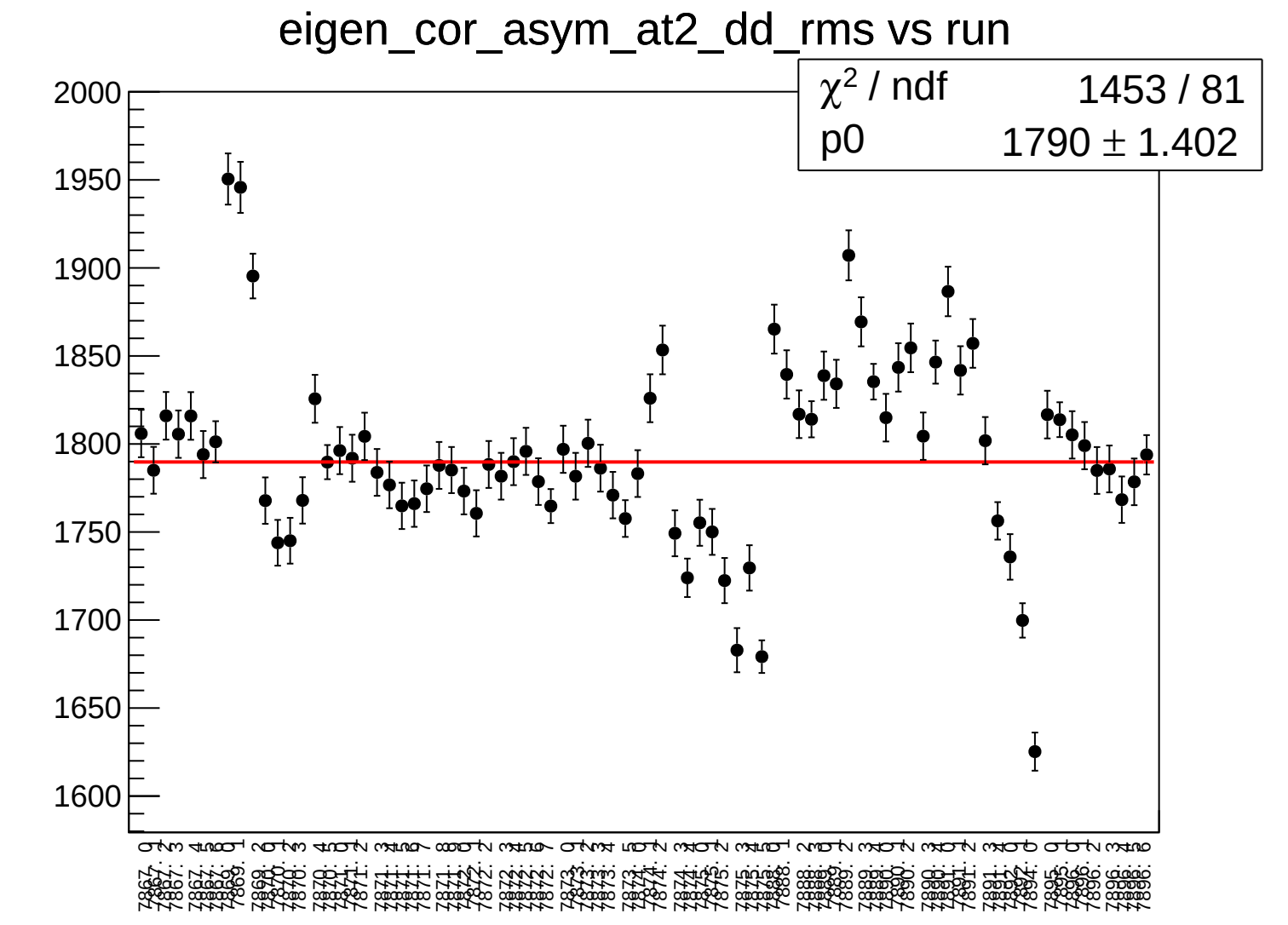

cor_asym_at2_dd_rms vs run
χ² / ndf 1453 / 81
p0 1790 ± 1.402
2000
1950
1900
1850
1800
1750
1700
1650
1600

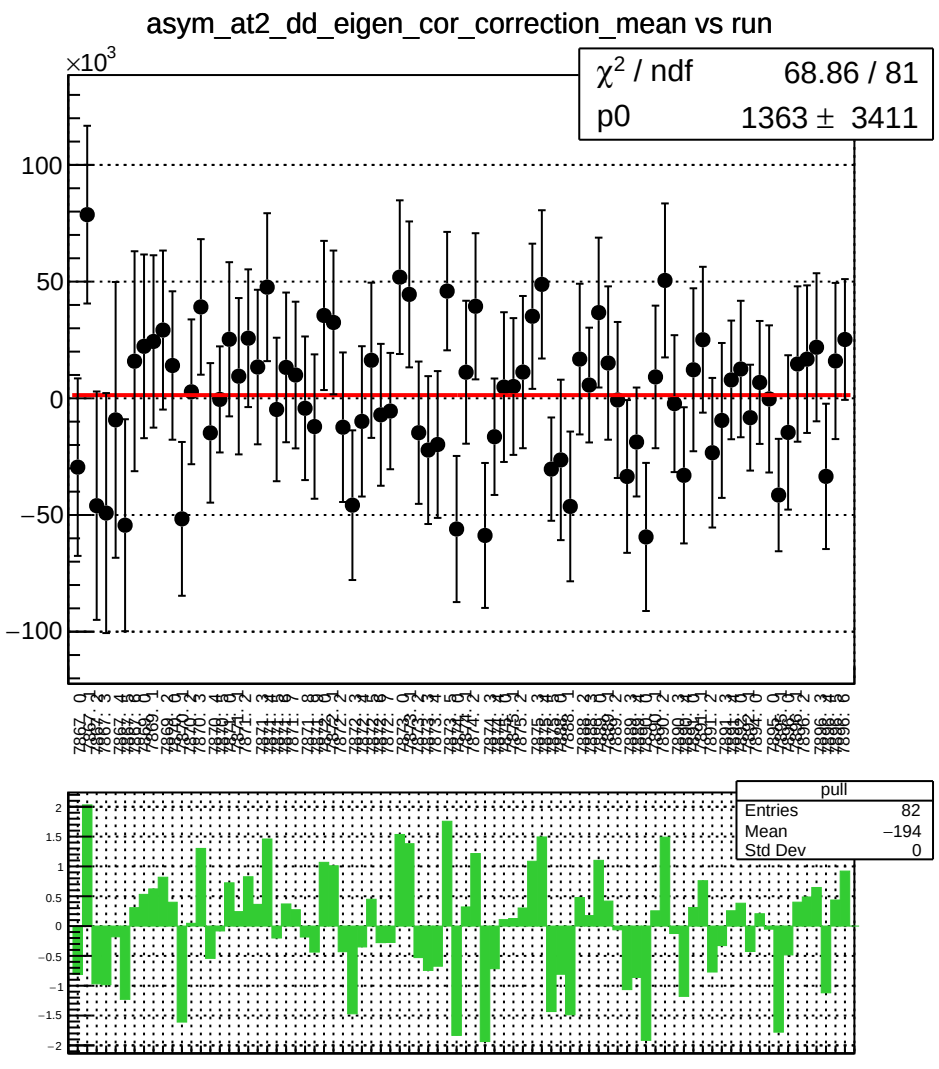

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.86 / 81
p0 1363 ± 3411
100
50
0
−50
−100
pull
Entries 82
Mean −194
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

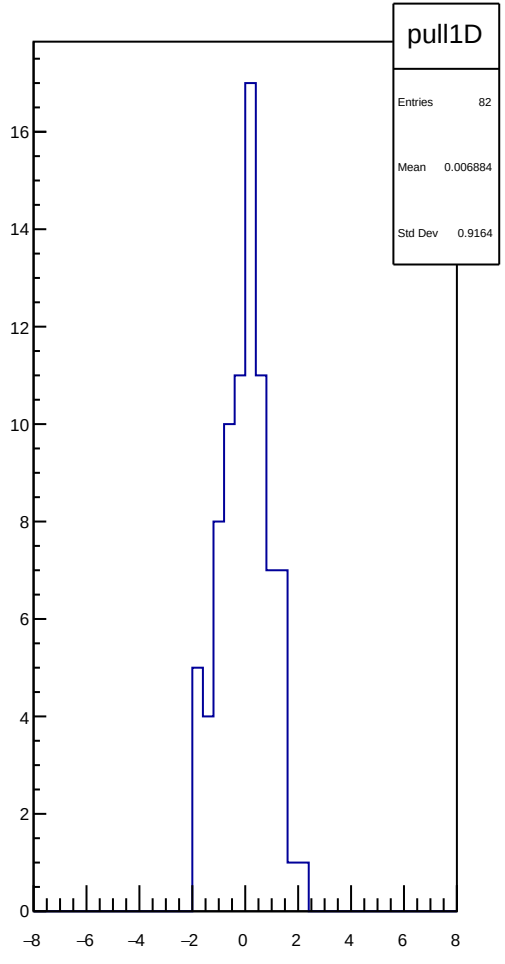

pull1D
Entries 82
Mean 0.006884
Std Dev 0.9164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

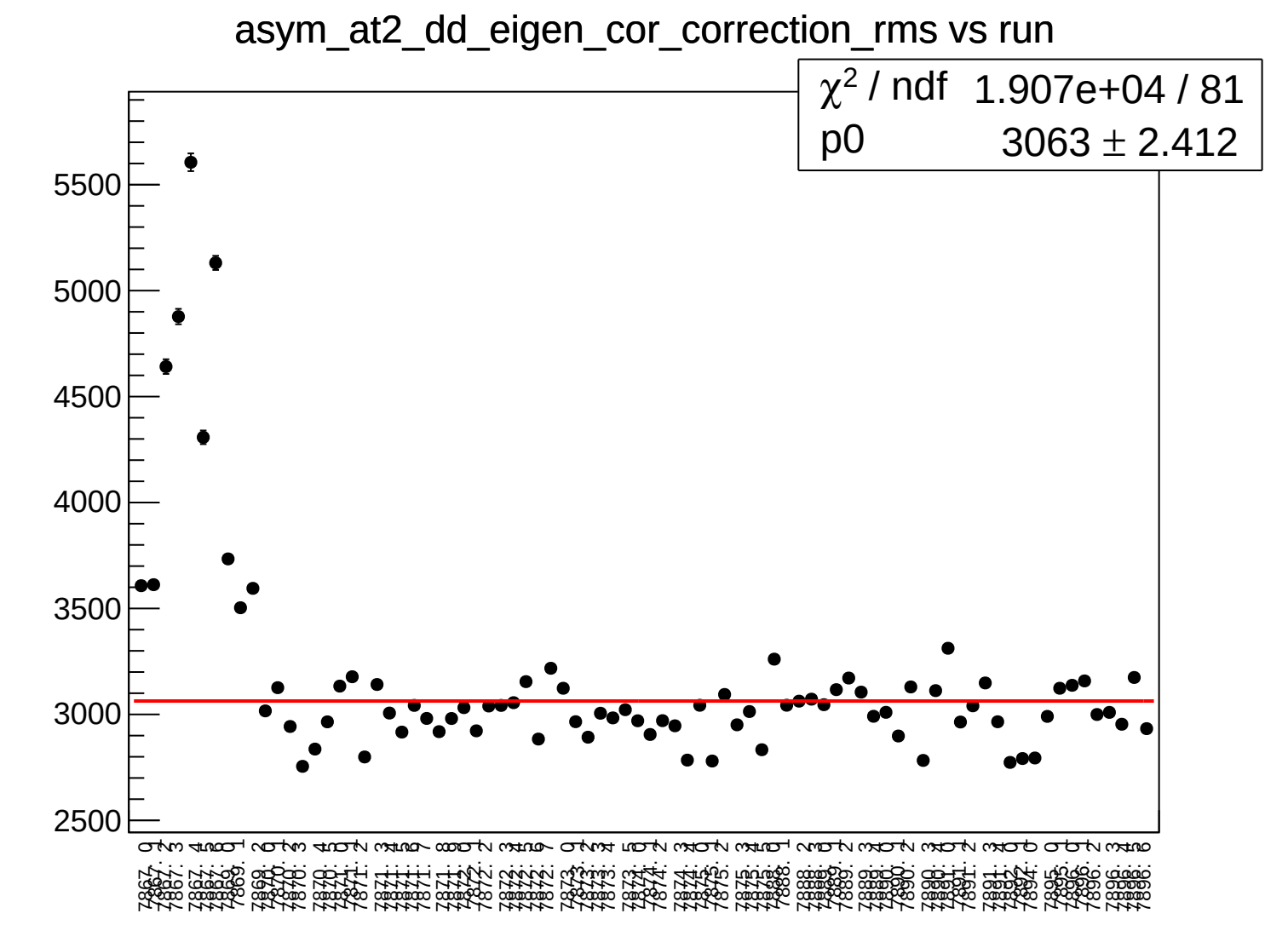

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.907e+04 / 81
p0 3063 ± 2.412
5500
5000
4500
4000
3500
3000
2500

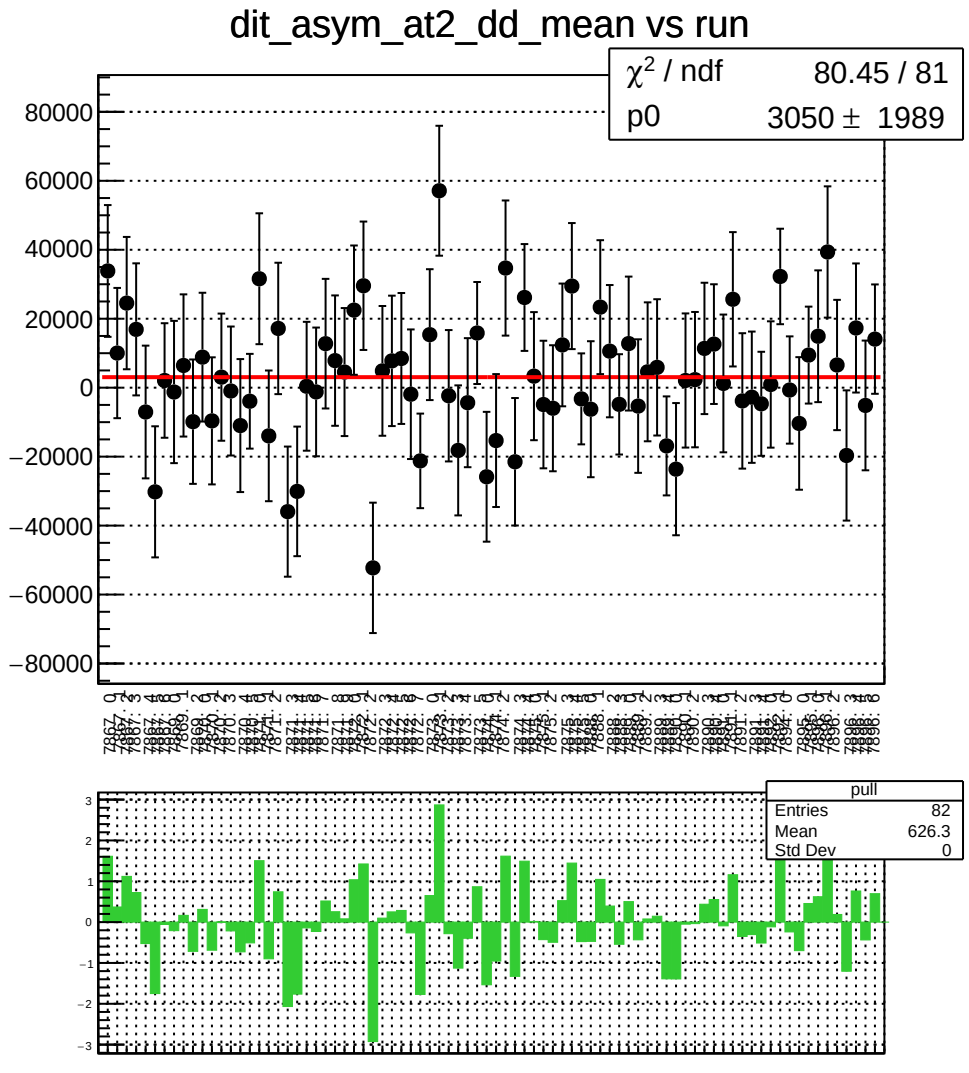

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 80.07 / 81
p0 3127 ± 1982
pull
Entries 82
Mean 781.4
Std Dev 0
pull1D
Entries 82
Mean 0.002093
Std Dev 0.9882

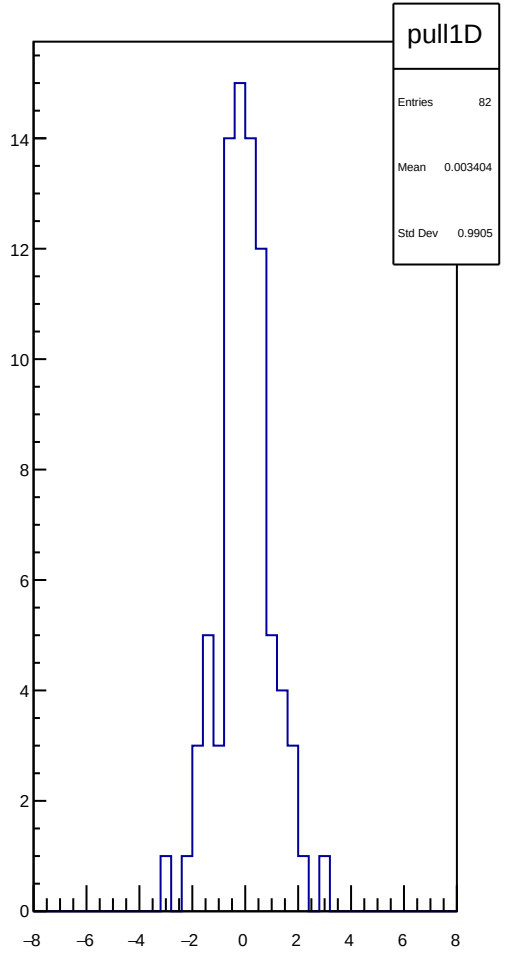

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1453 / 81
p0 1790 ± 1.402
2000
1950
1900
1850
1800
1750
1700
1650
1600

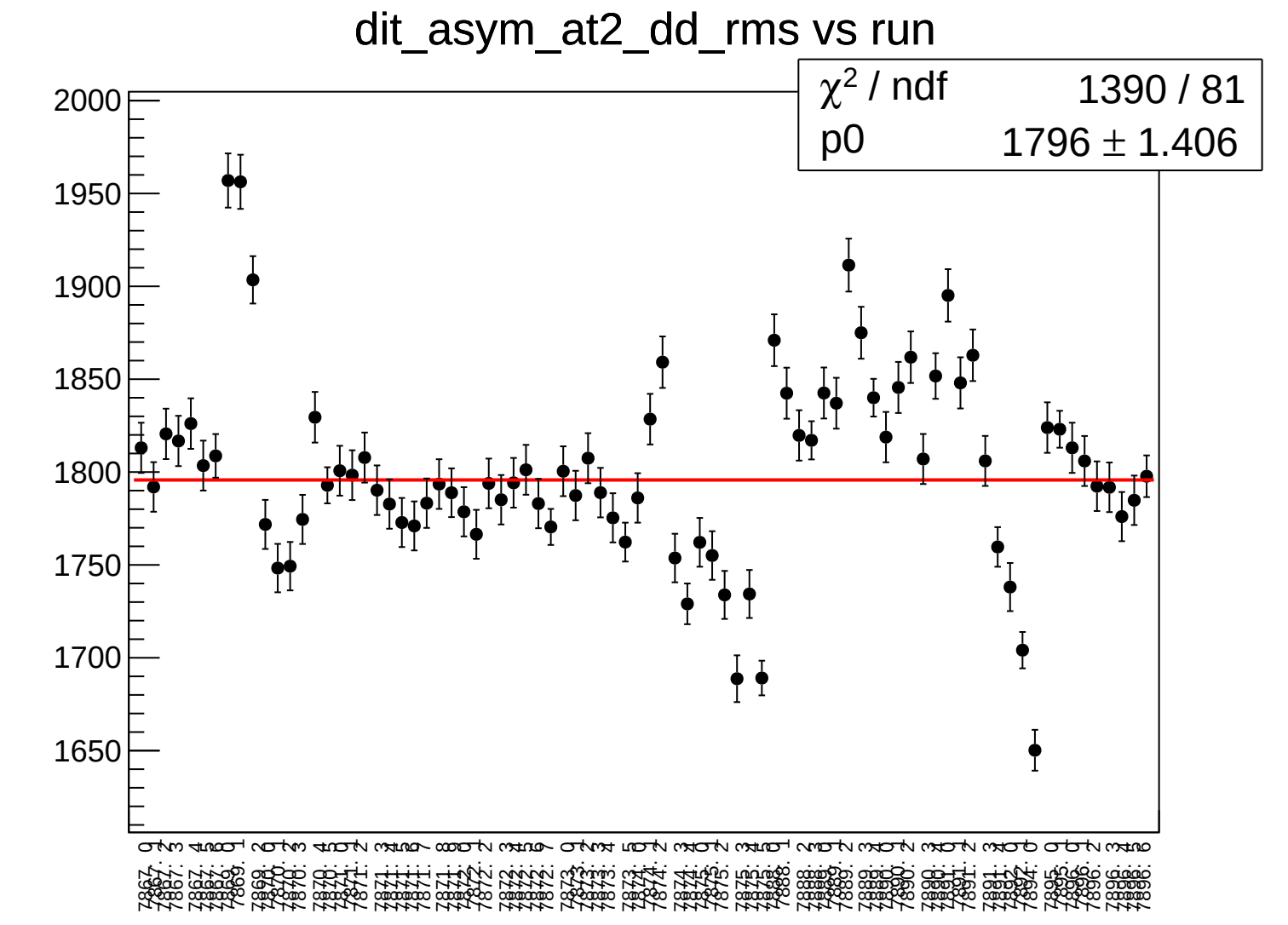

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 68.86 / 81
p0 1363 ± 3411
100
50
0
−50
−100
pull
Entries 82
Mean −194
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

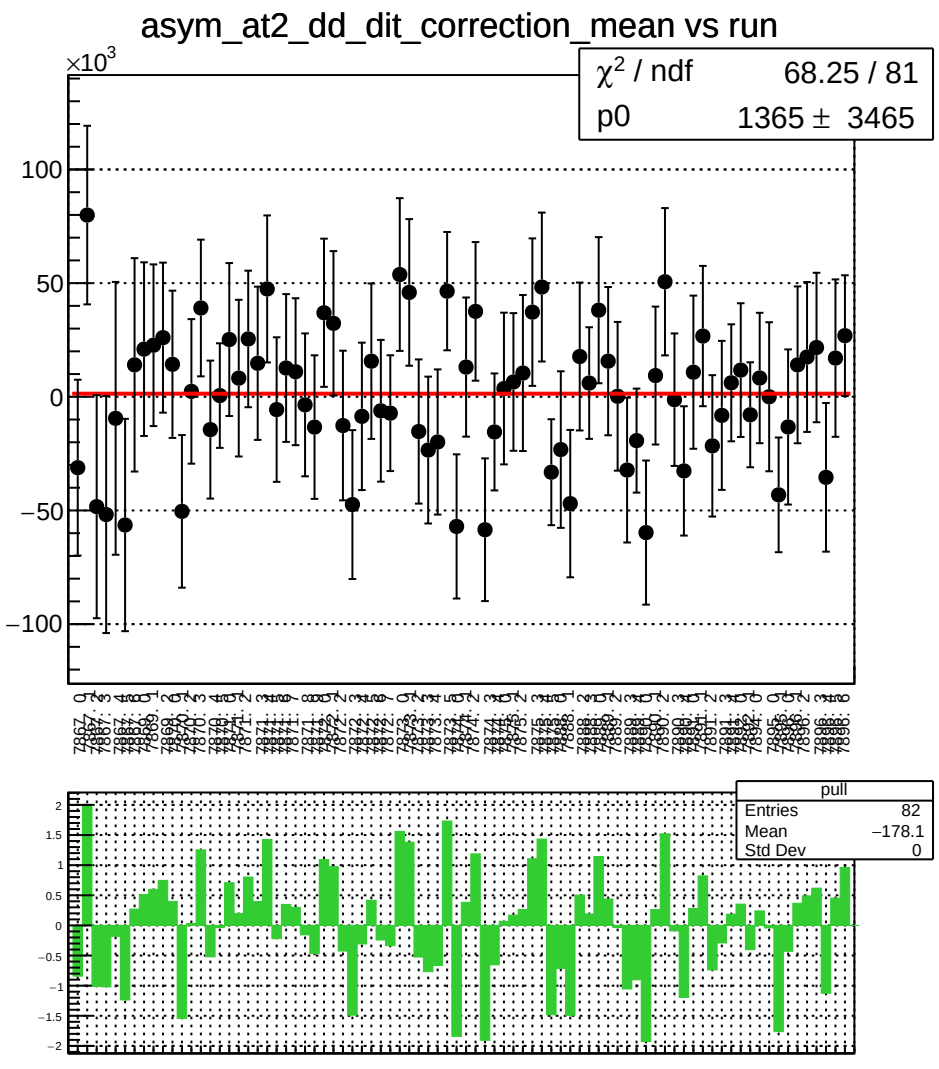

pull1D
Entries 82
Mean 0.006884
Std Dev 0.9164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

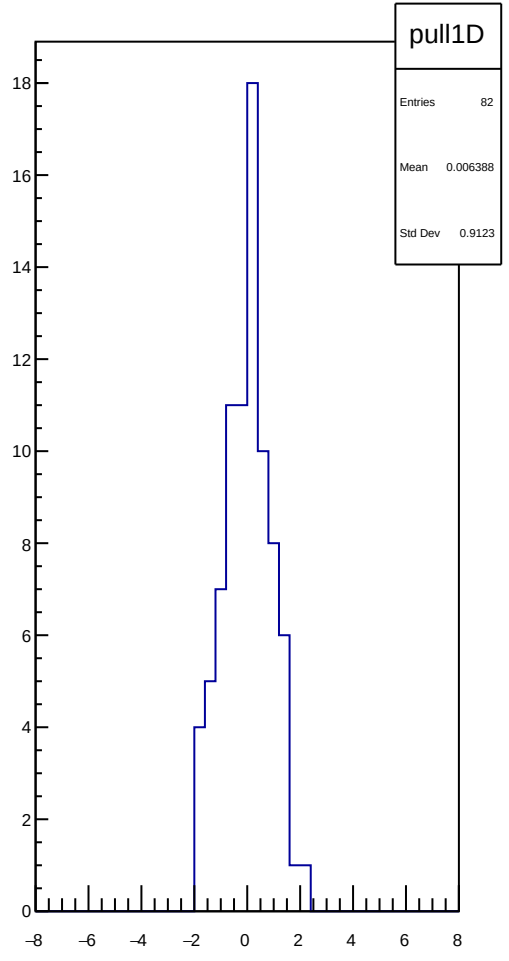

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.907e+04 / 81
p0 3063 ± 2.412
5500
5000
4500
4000
3500
3000
2500

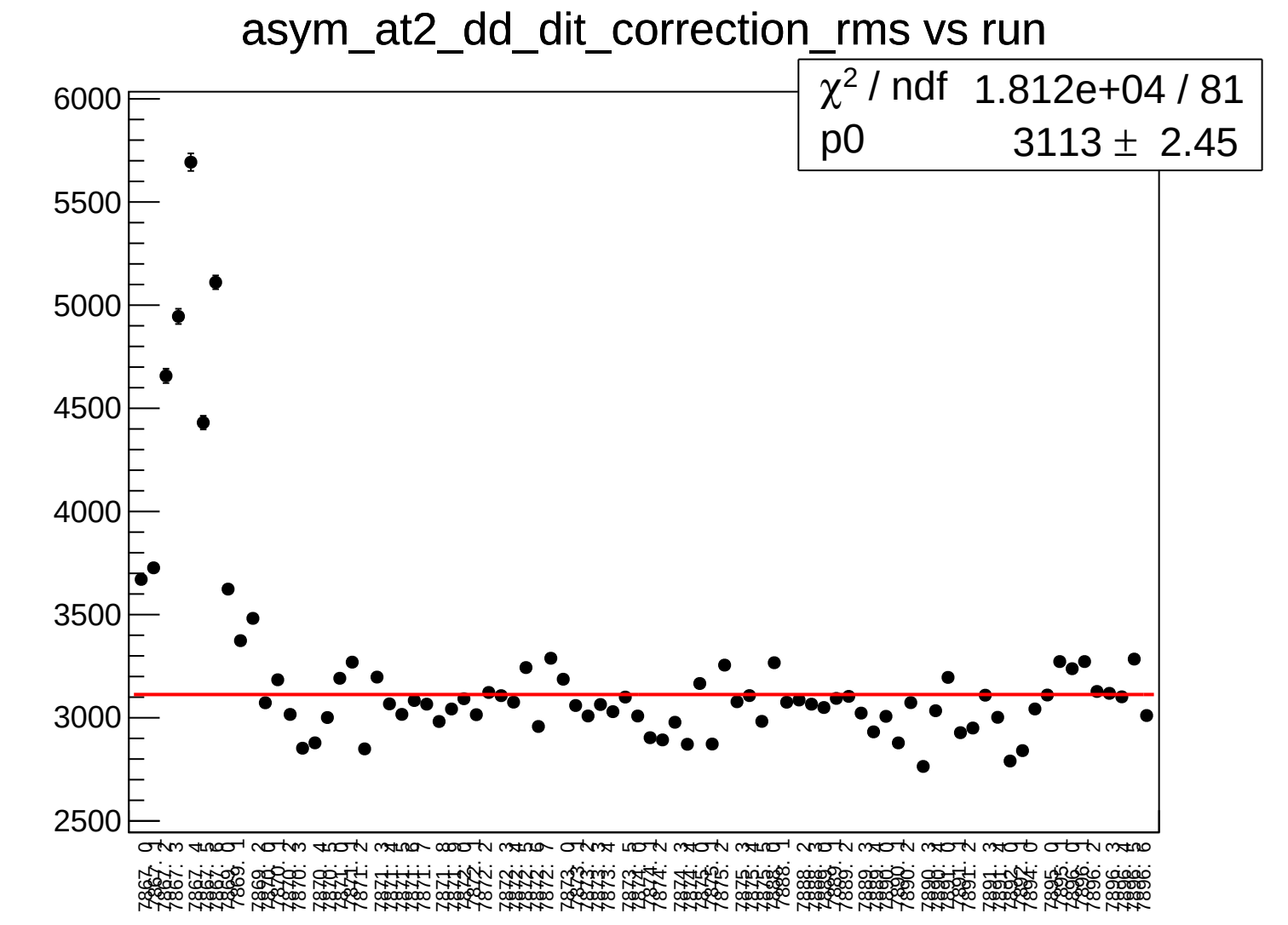

dit_asym_at2_dd_mean vs run
χ² / ndf 80.45 / 81
p0 3050 ± 1989
pull
Entries 82
Mean 626.3
Std Dev 0

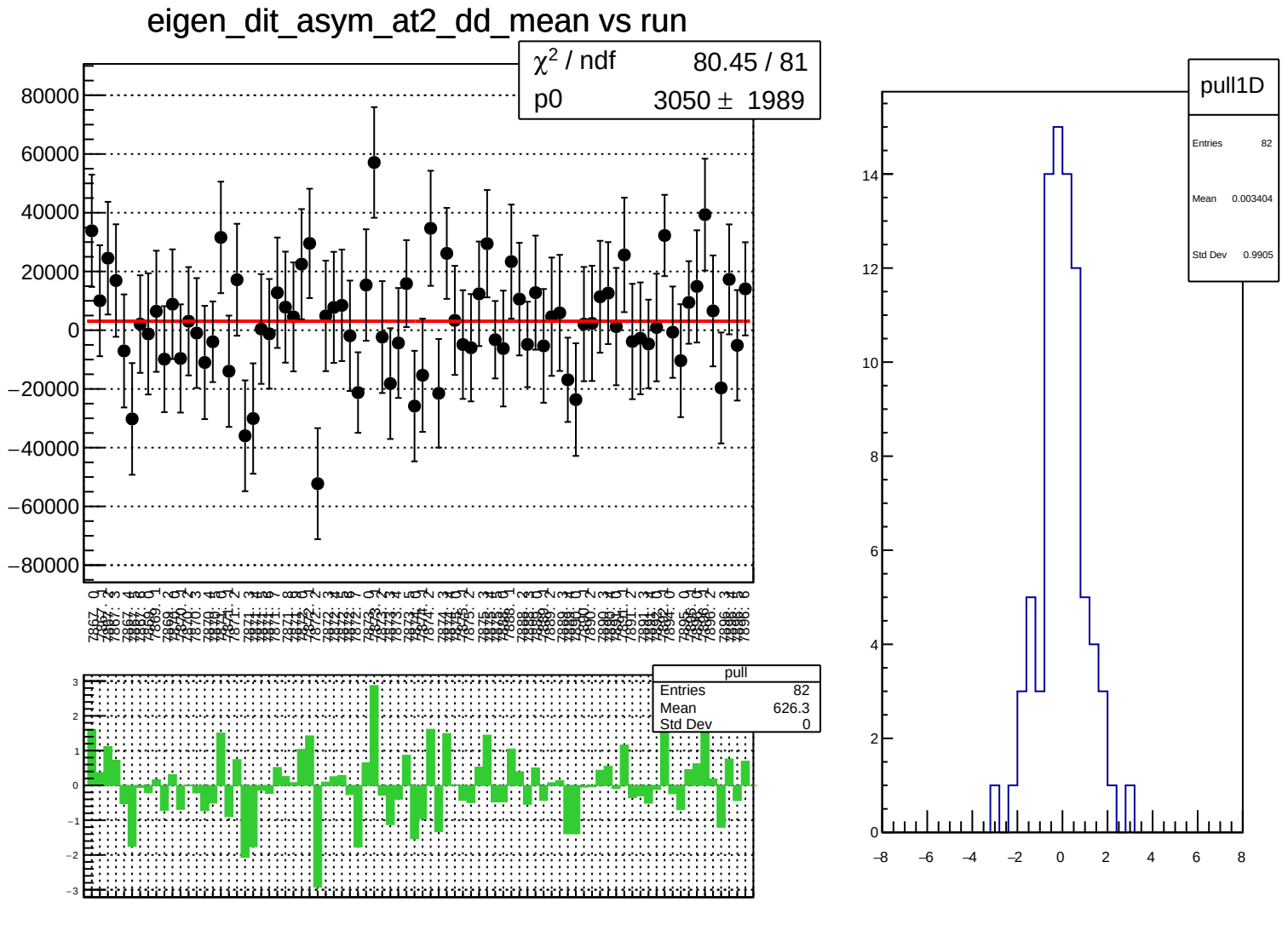

pull1D
Entries 82
Mean 0.003404
Std Dev 0.9905

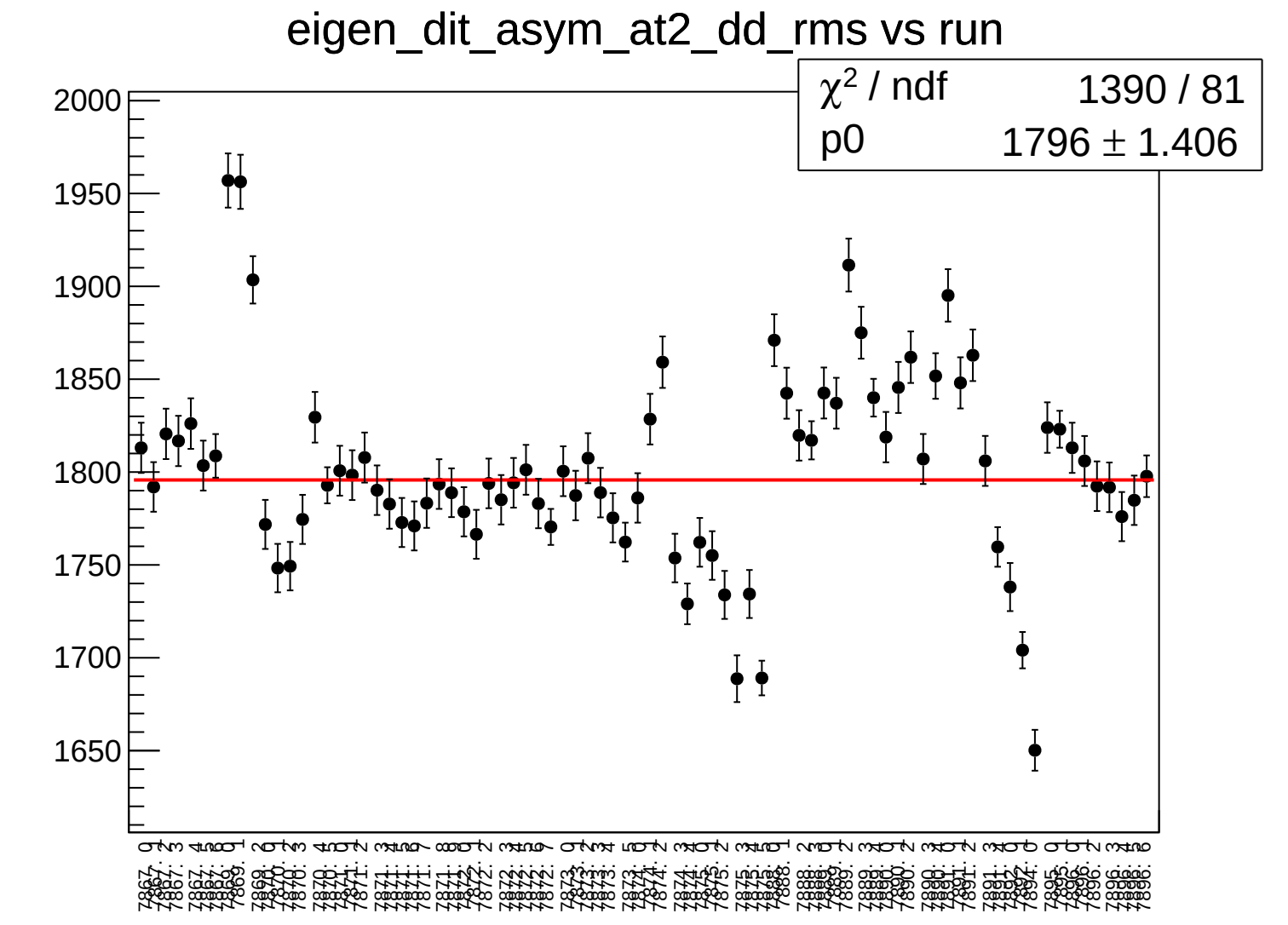

dit_asym_at2_dd_rms vs run
χ² / ndf 1390 / 81
p0 1796 ± 1.406
2000
1950
1900
1850
1800
1750
1700
1650

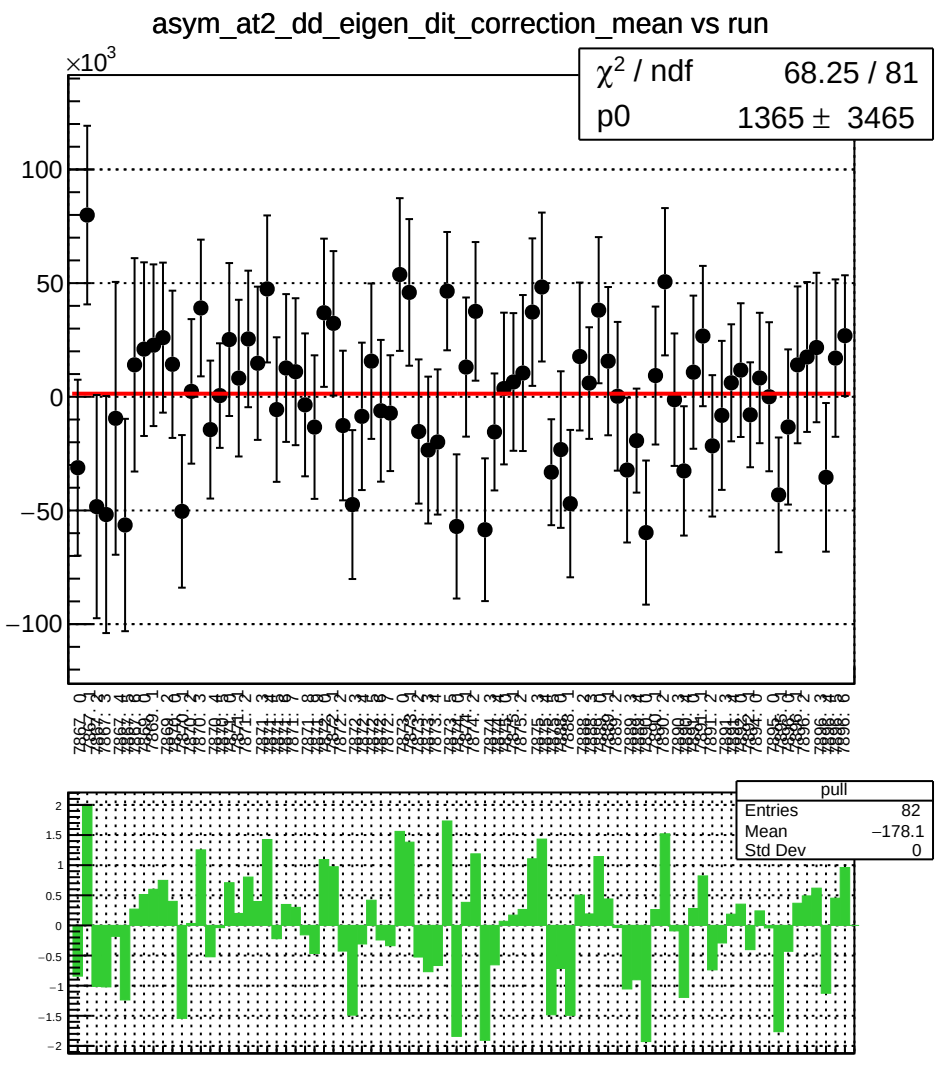

asym_at2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 68.25 / 81
p0 1365 ± 3465
100
50
0
−50
−100
pull
Entries 82
Mean −178.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

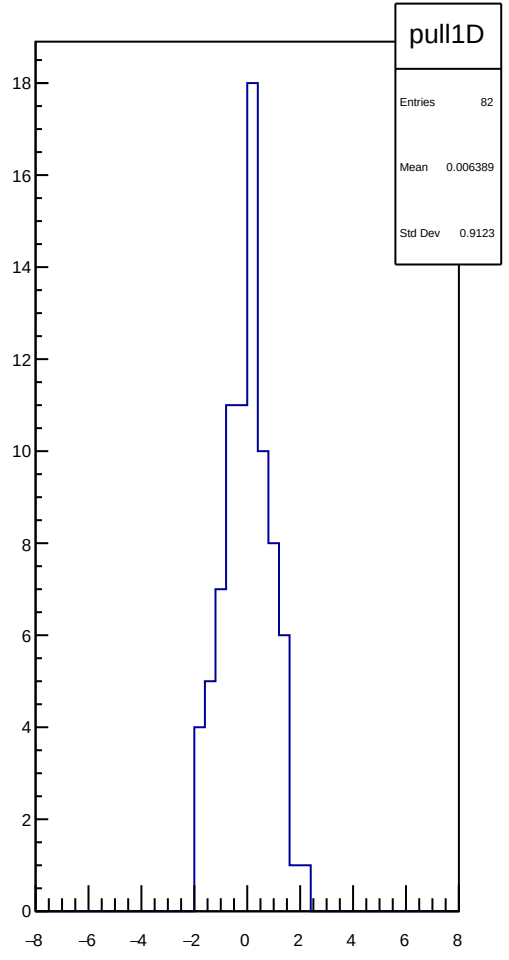

pull1D
Entries 82
Mean 0.006388
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

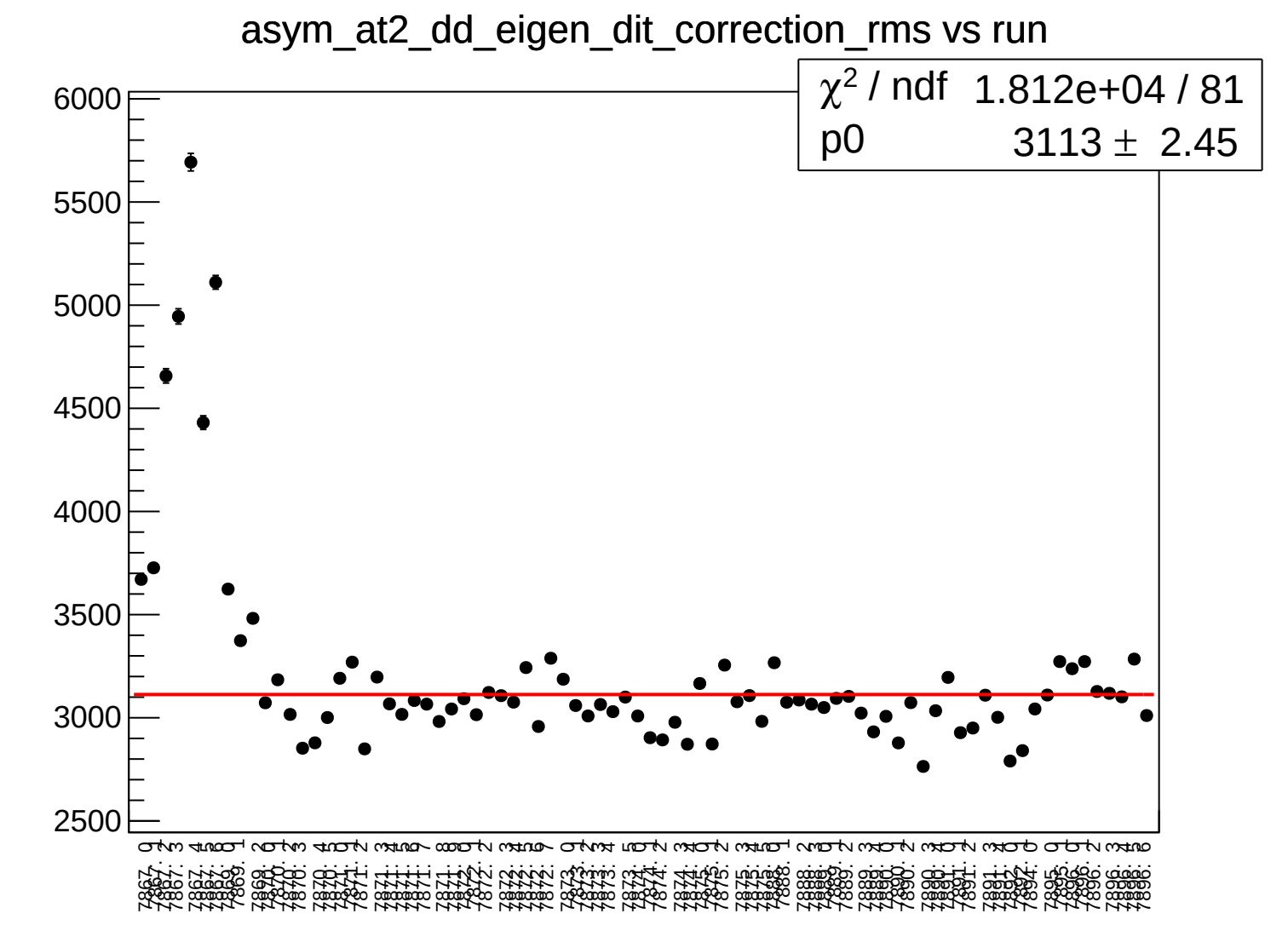

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.812e+04 / 81
p0 3113 ± 2.45
6000
5500
5000
4500
4000
3500
3000
2500

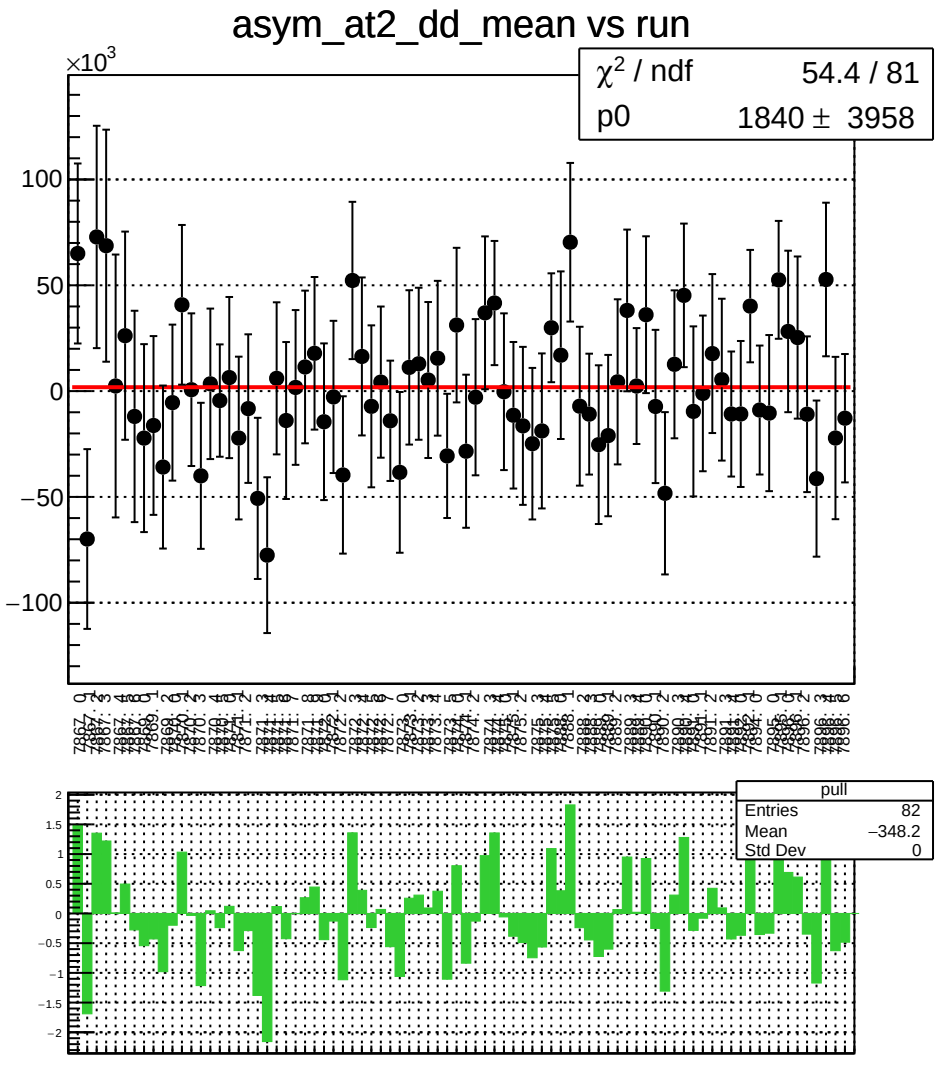

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 80.45 / 81
p0 3050 ± 1989
pull
Entries 82
Mean 626.3
Std Dev 0
pull1D
Entries 82
Mean 0.003404
Std Dev 0.9905

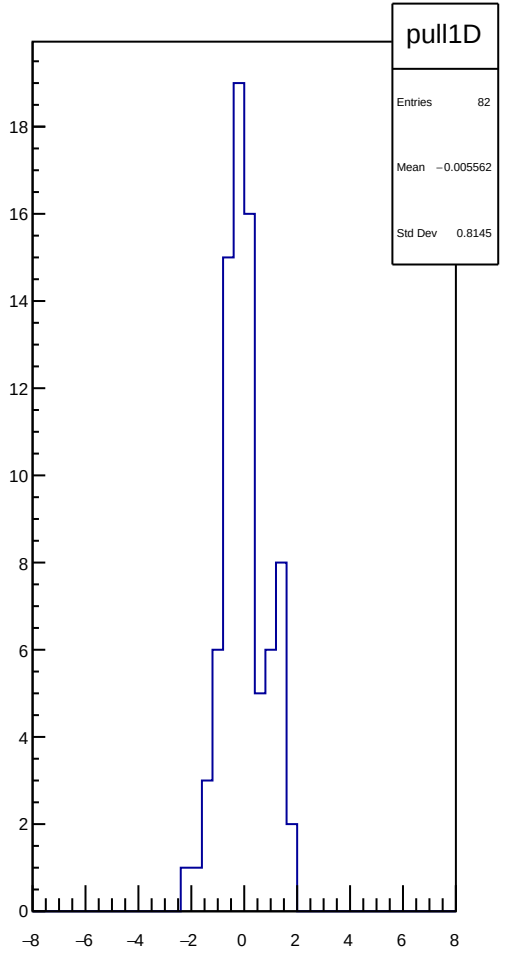

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1390 / 81
p0 1796 ± 1.406
2000
1950
1900
1850
1800
1750
1700
1650

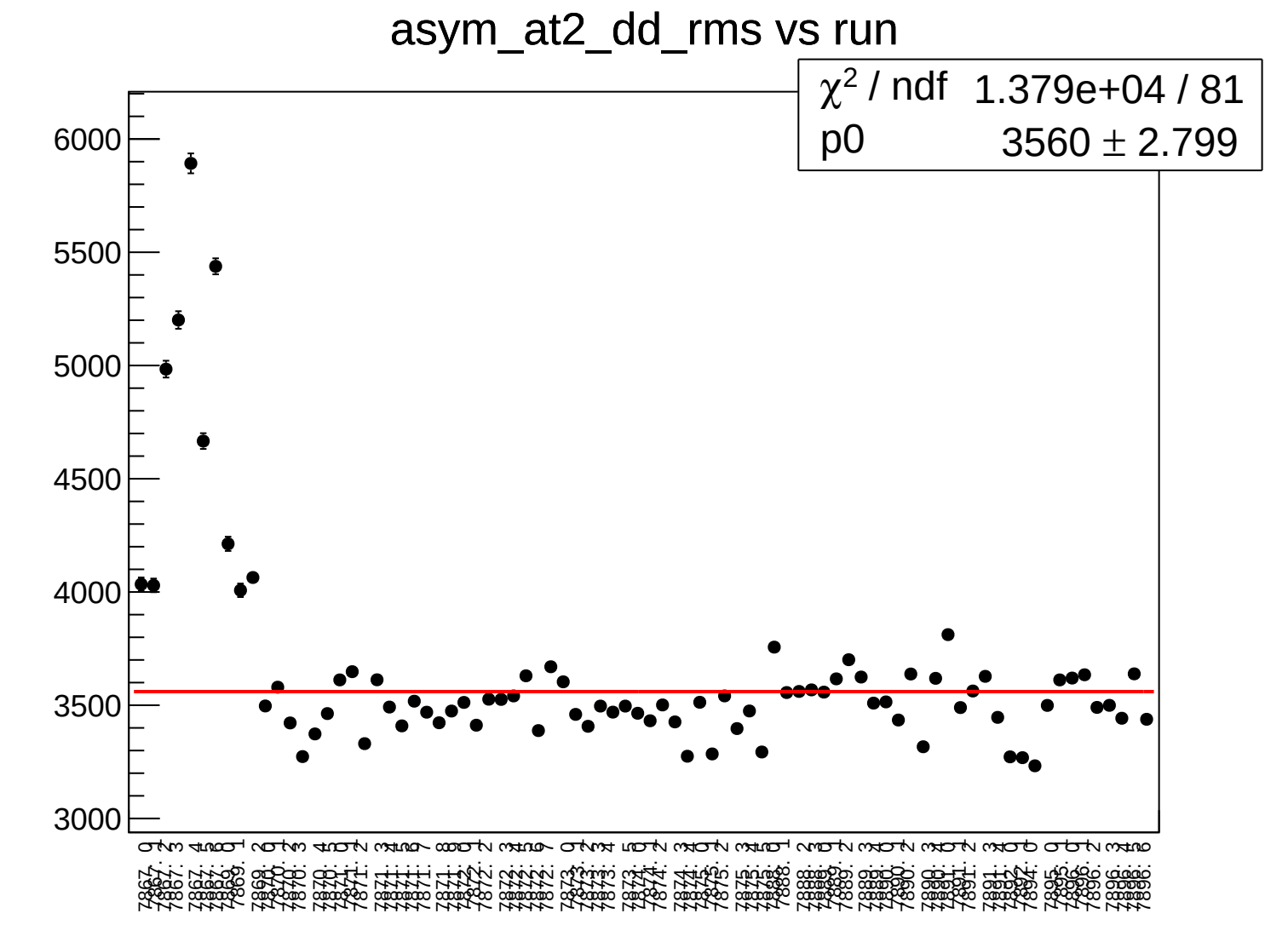

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.25 / 81
p0 1365 ± 3465
100
50
0
−50
−100
pull
Entries 82
Mean −178.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

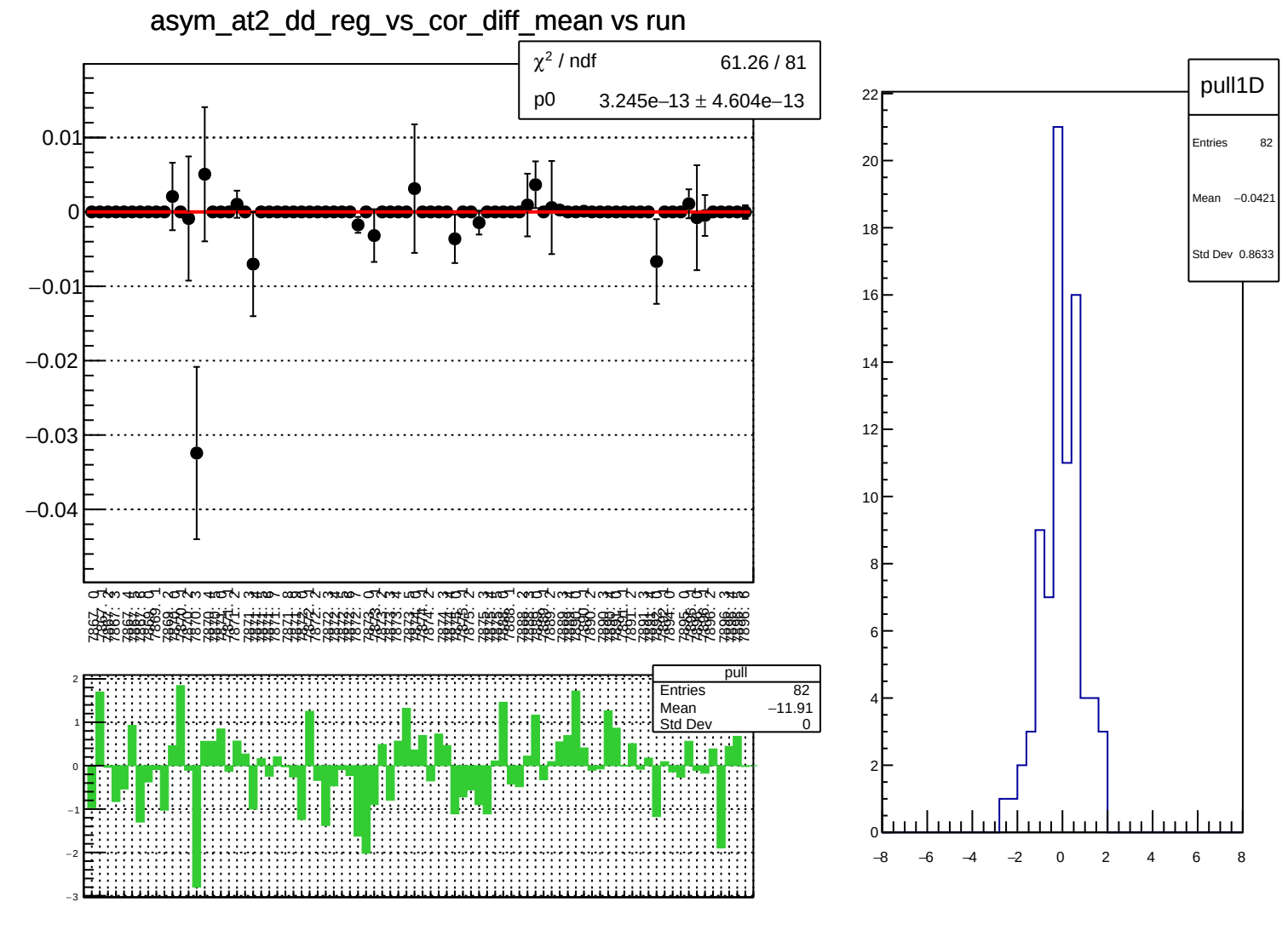

pull1D
Entries 82
Mean 0.006389
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

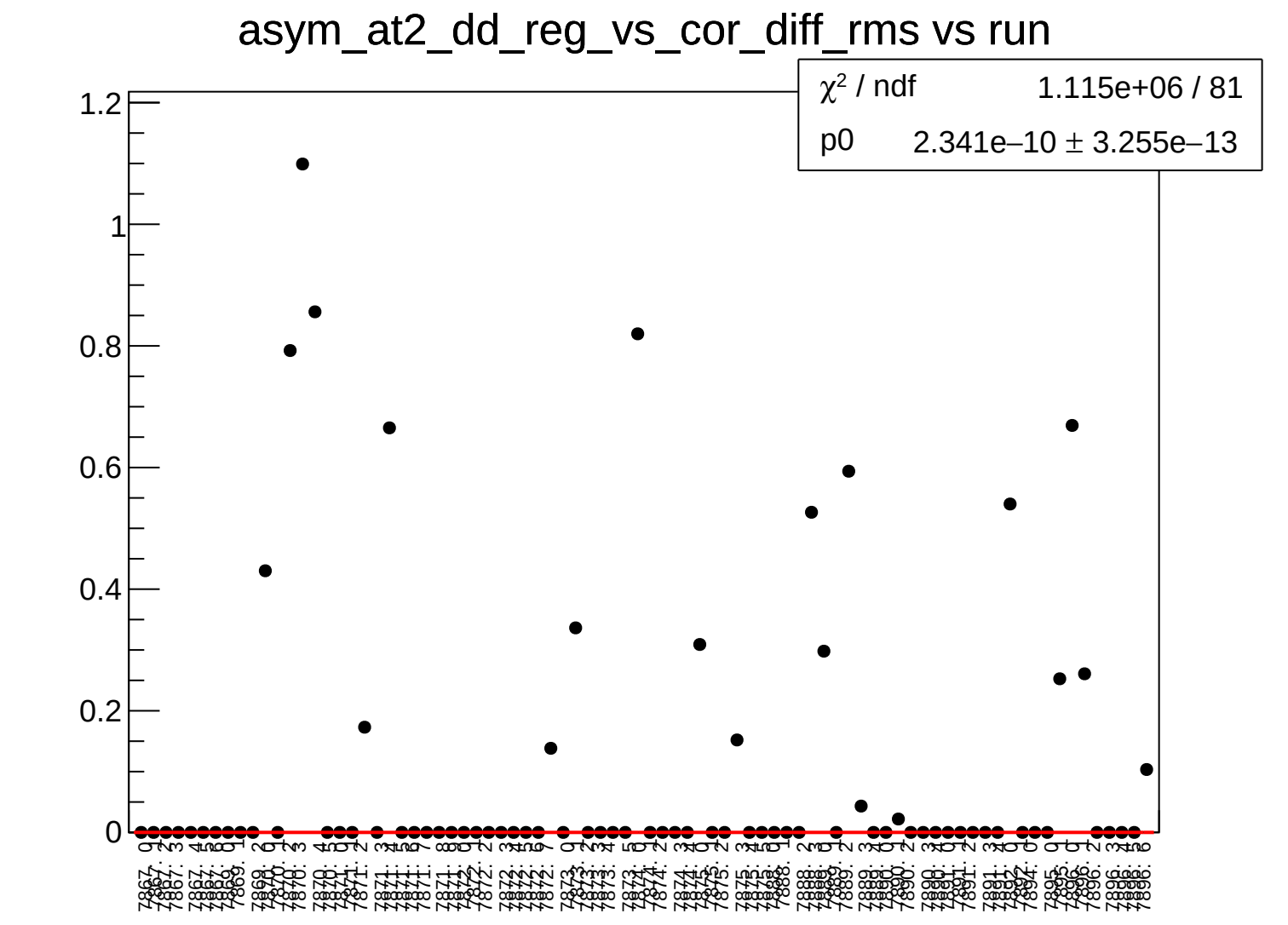

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.812e+04 / 81
p0 3113 ± 2.45
6000
5500
5000
4500
4000
3500
3000
2500

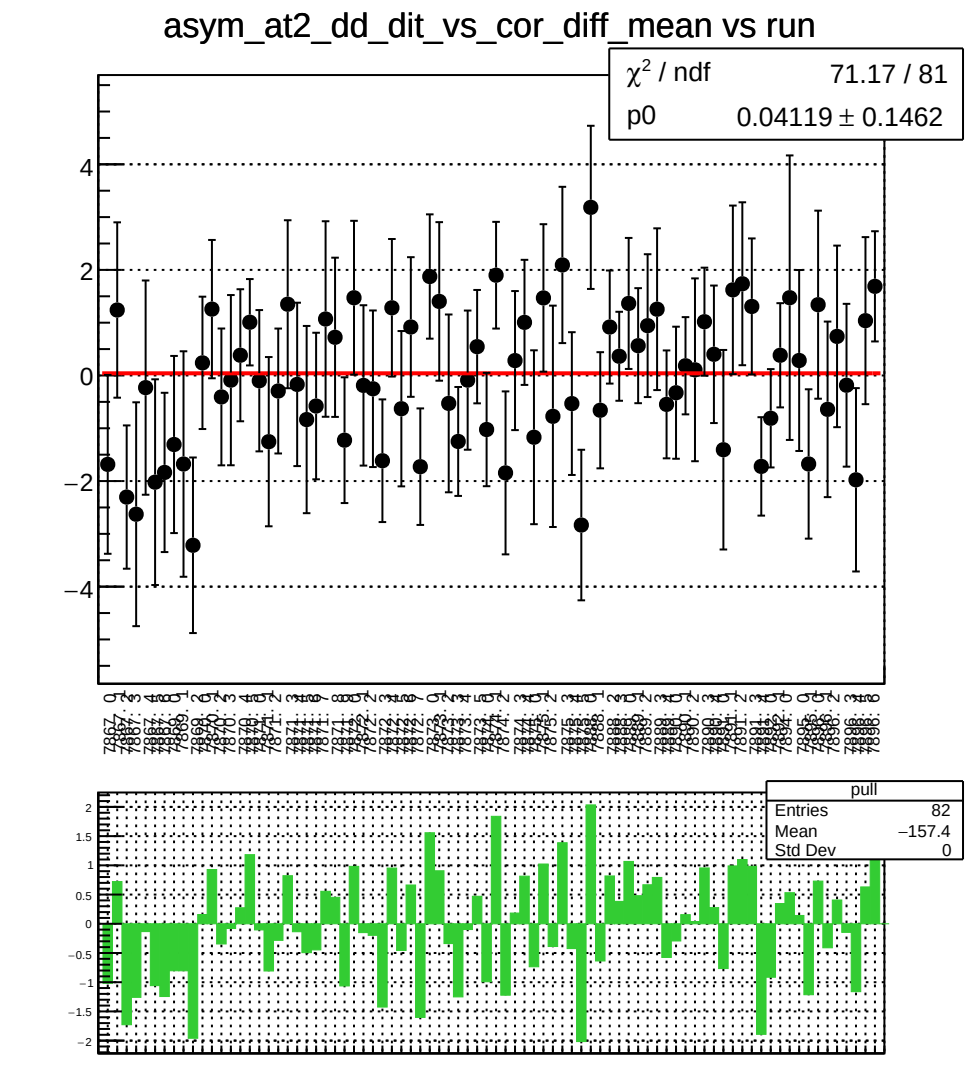

asym_at2_dd_mean vs run
×10^3
χ² / ndf 54.4 / 81
p0 1840 ± 3958
100
50
0
−50
−100
pull
Entries 82
Mean −348.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

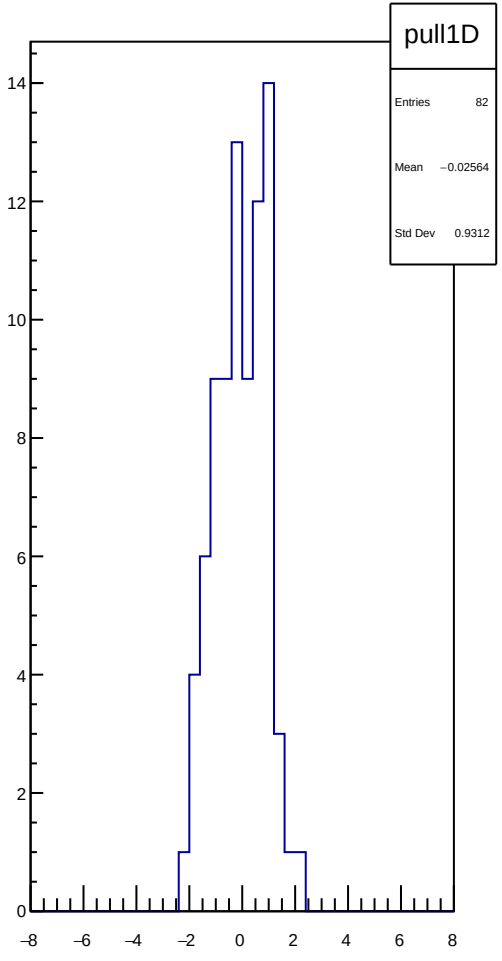

pull1D
Entries 82
Mean −0.005562
Std Dev 0.8145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

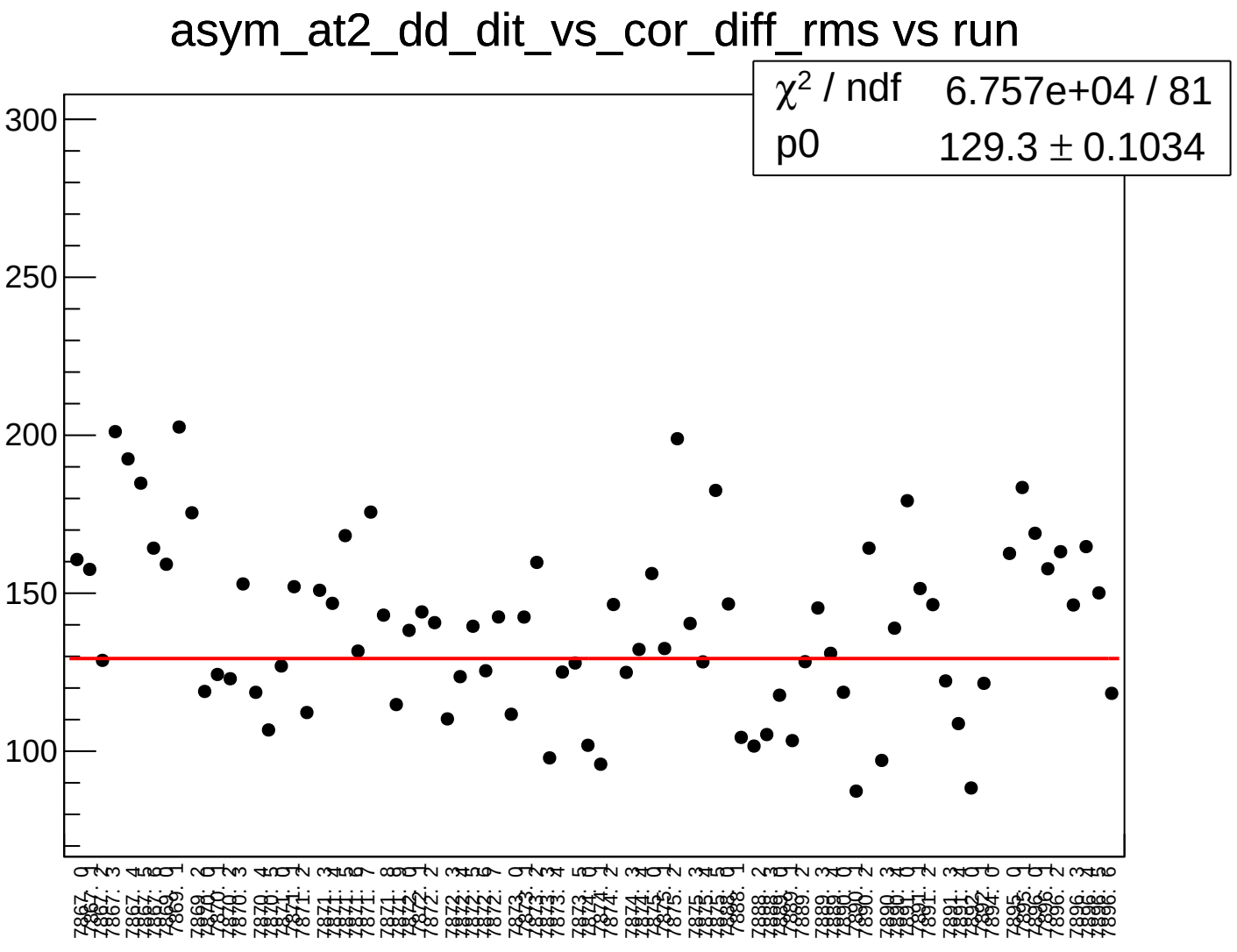

asym_at2_dd_rms vs run
χ^2 / ndf 1.379e+04 / 81
p0 3560 ± 2.799
6000
5500
5000
4500
4000
3500
3000

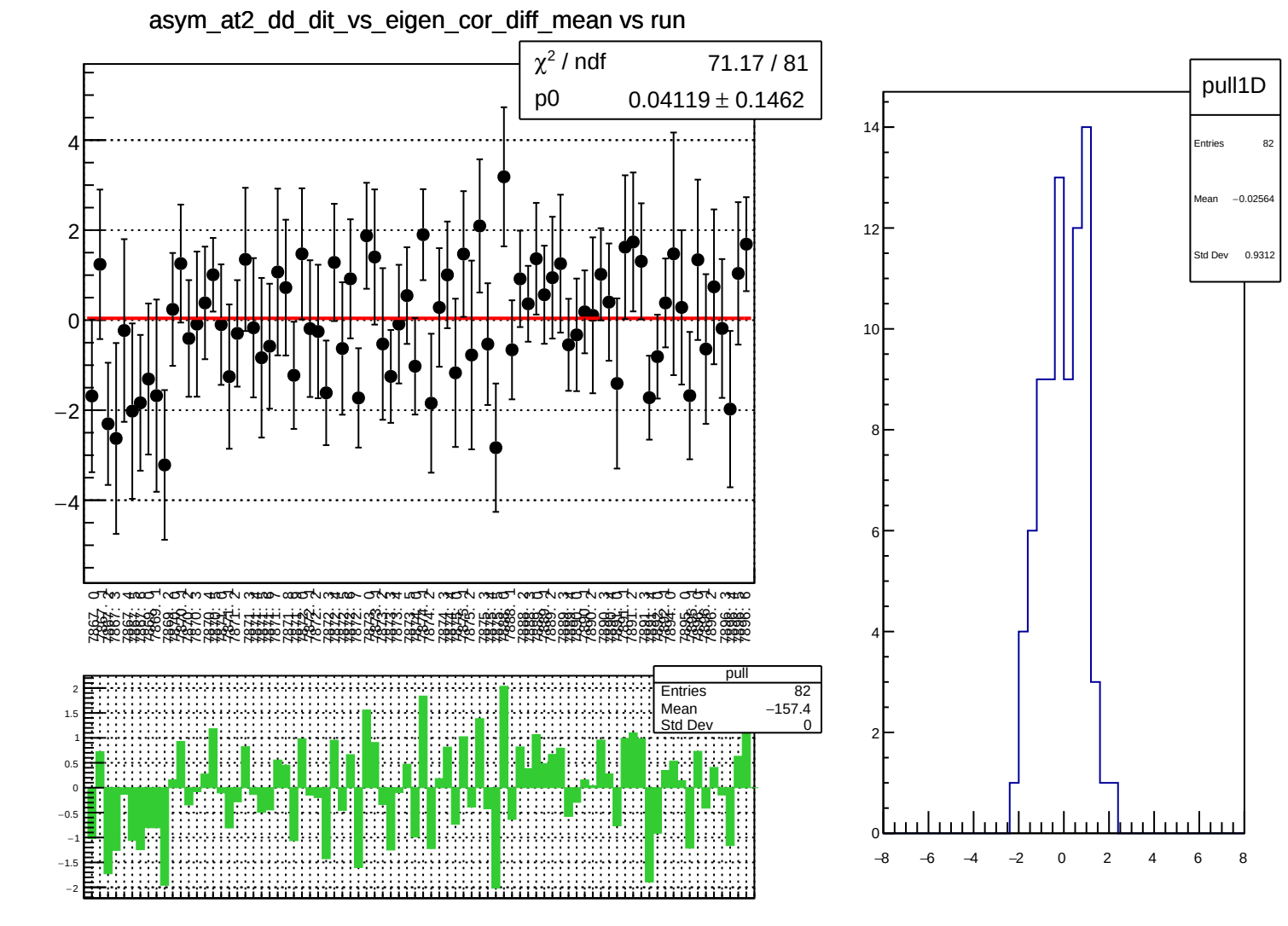

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 61.26 / 81
p0 3.245e−13 ± 4.604e−13
pull
Entries 82
Mean −11.91
Std Dev 0
pull1D
Entries 82
Mean −0.0421
Std Dev 0.8633

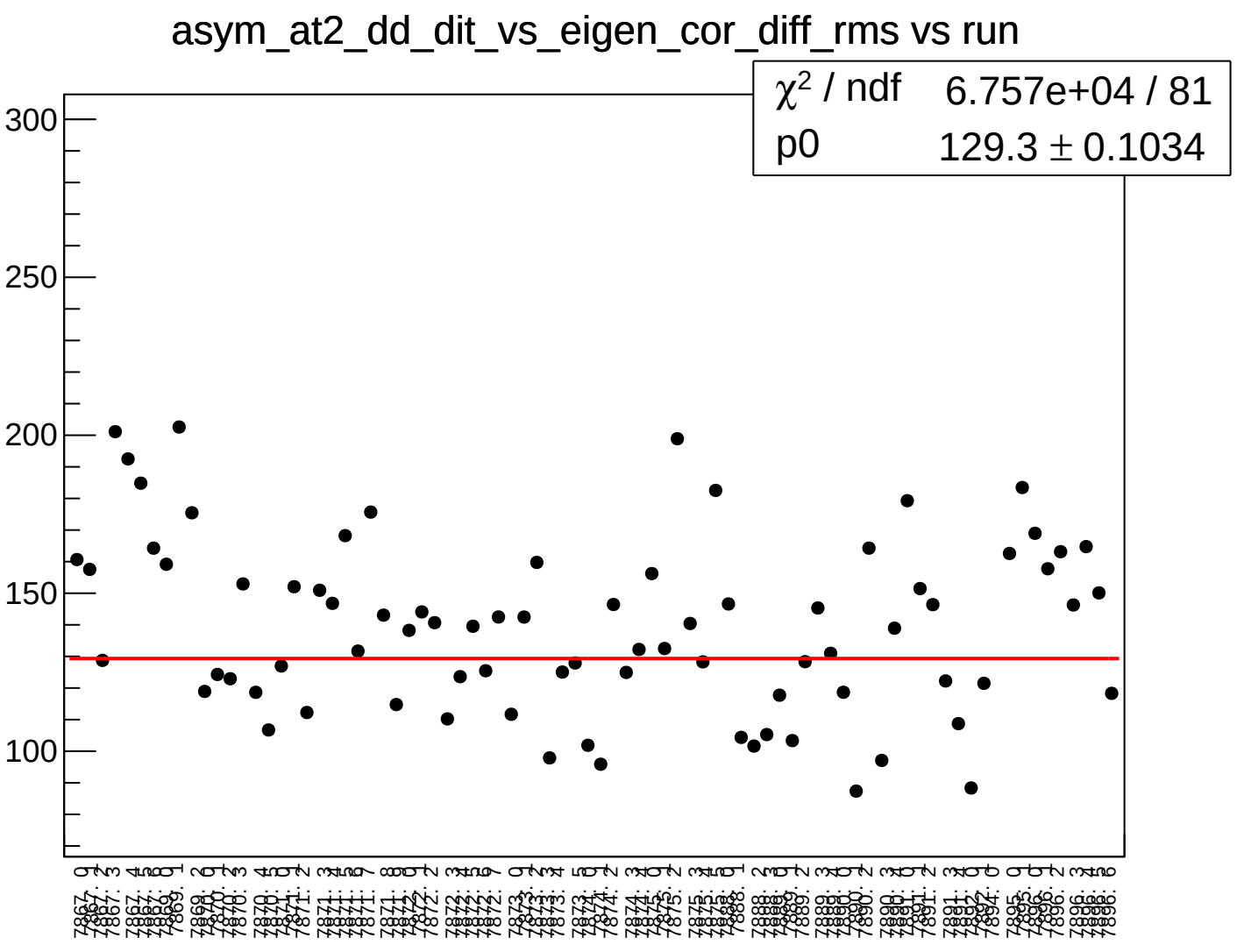

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.115e+06 / 81
p0 2.341e−10 ± 3.255e−13
1.2
1
0.8
0.6
0.4
0.2
0

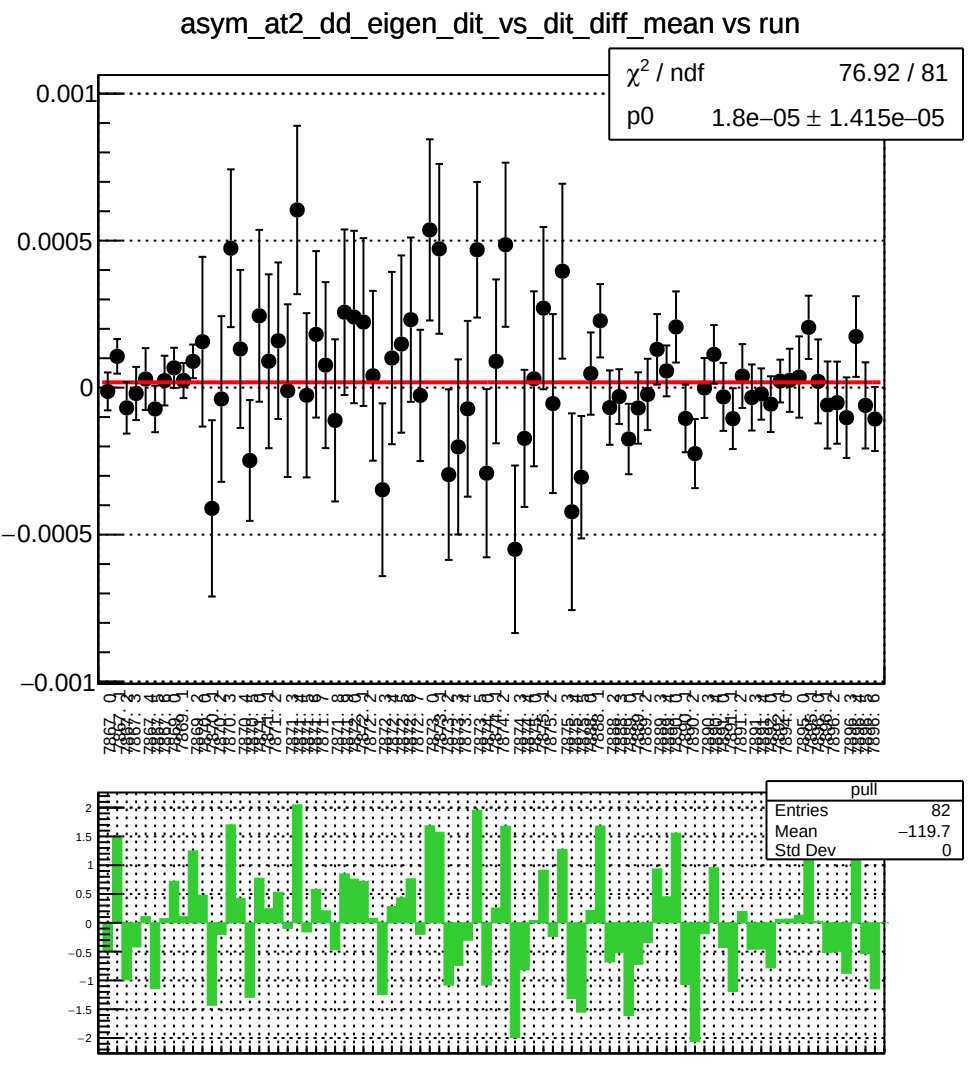

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.17 / 81
p0 0.04119 ± 0.1462
pull
Entries 82
Mean −157.4
Std Dev 0

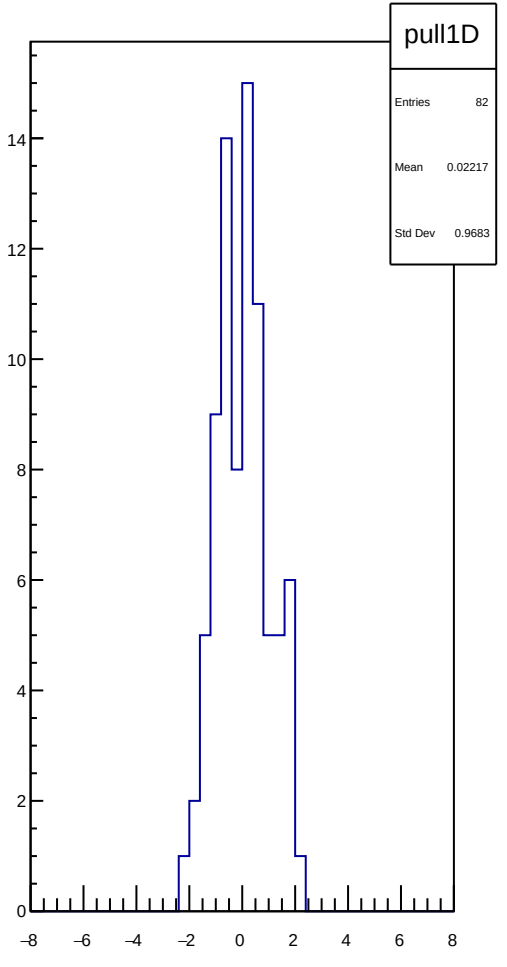

pull1D
Entries 82
Mean −0.02564
Std Dev 0.9312

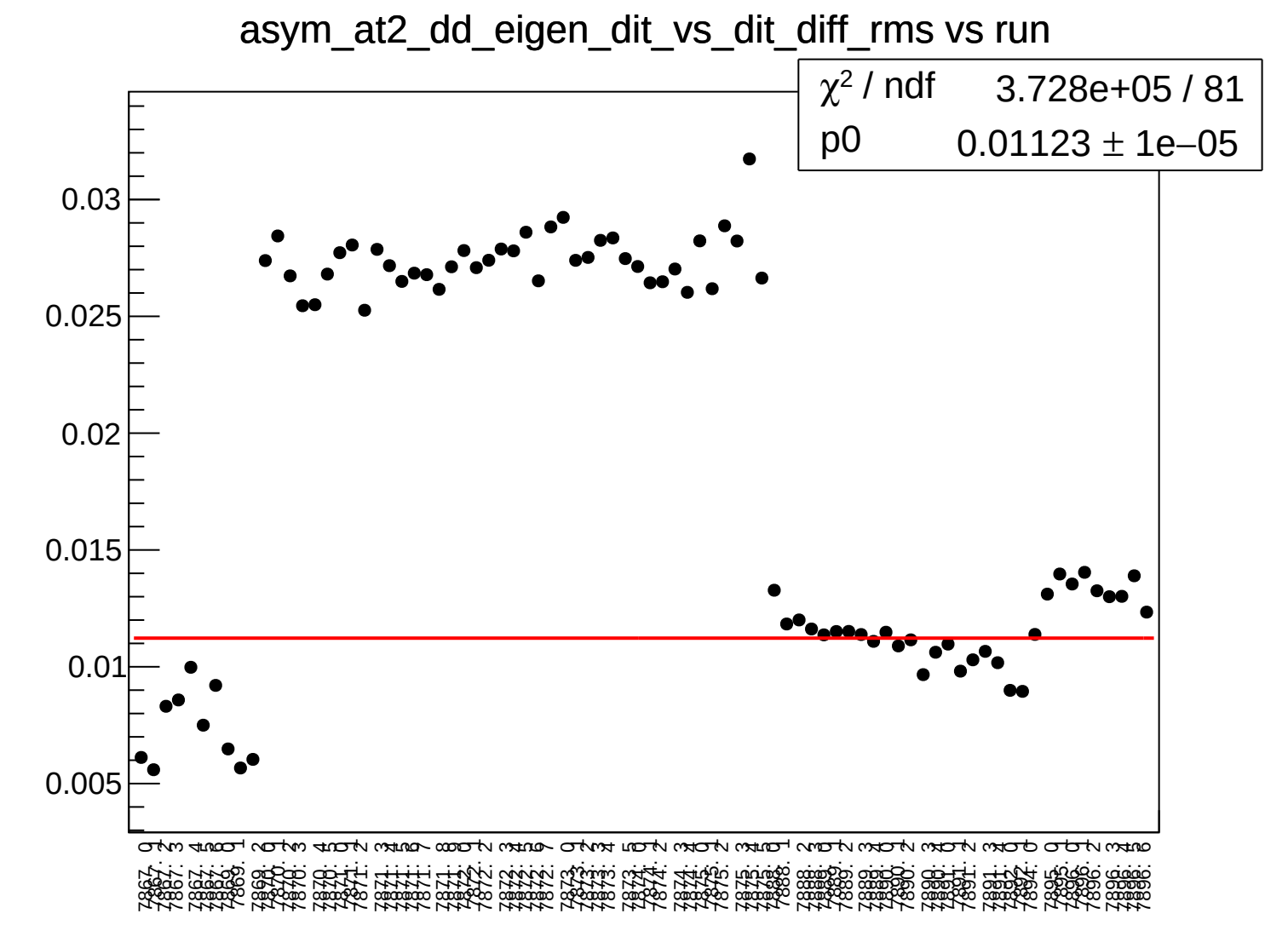

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 81
p0 129.3 ± 0.1034
300
250
200
150
100

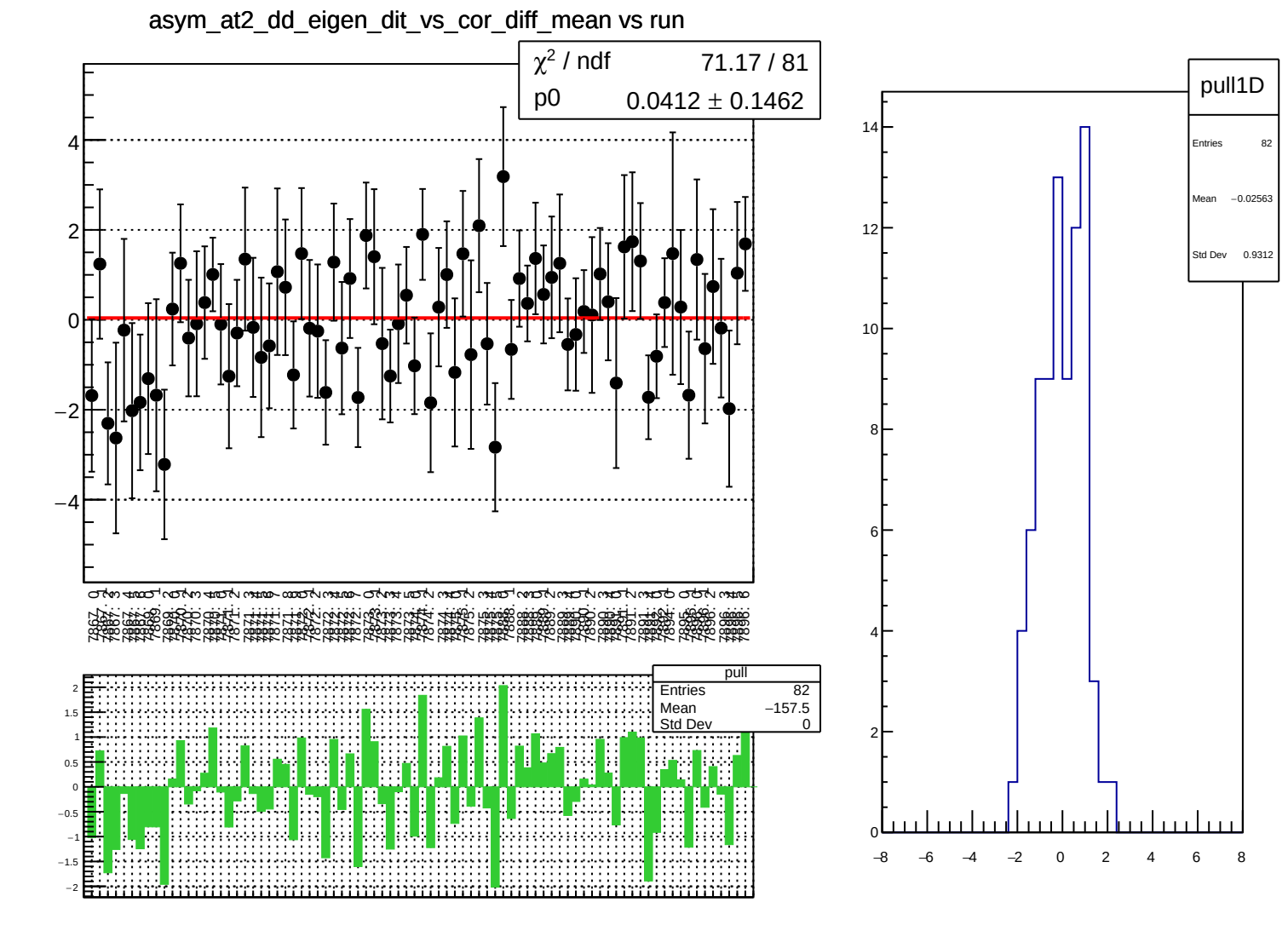

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.17 / 81
p0 0.04119 ± 0.1462
pull
Entries 82
Mean −157.4
Std Dev 0
pull1D
Entries 82
Mean −0.02564
Std Dev 0.9312

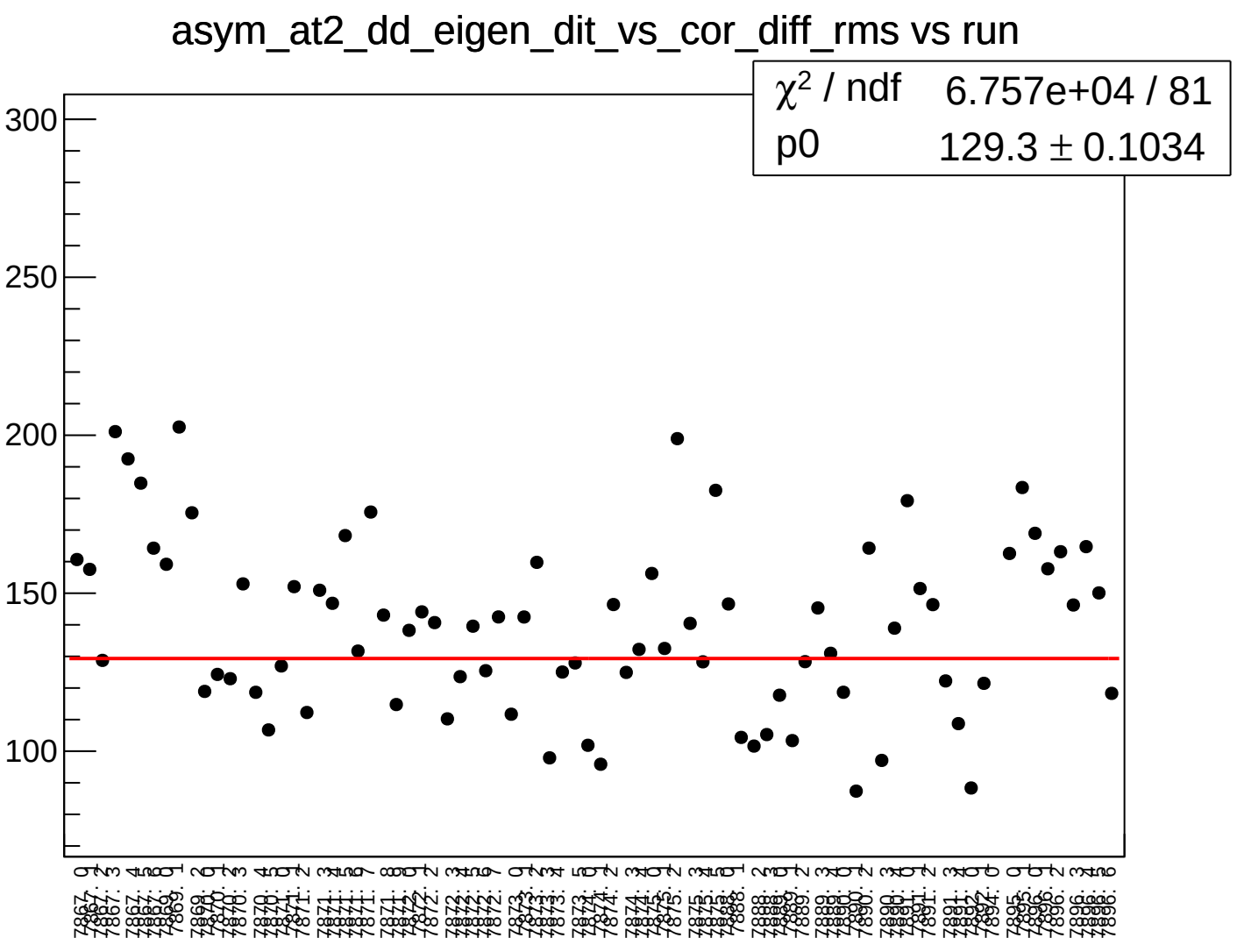

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 81
p0 129.3 ± 0.1034
300
250
200
150
100

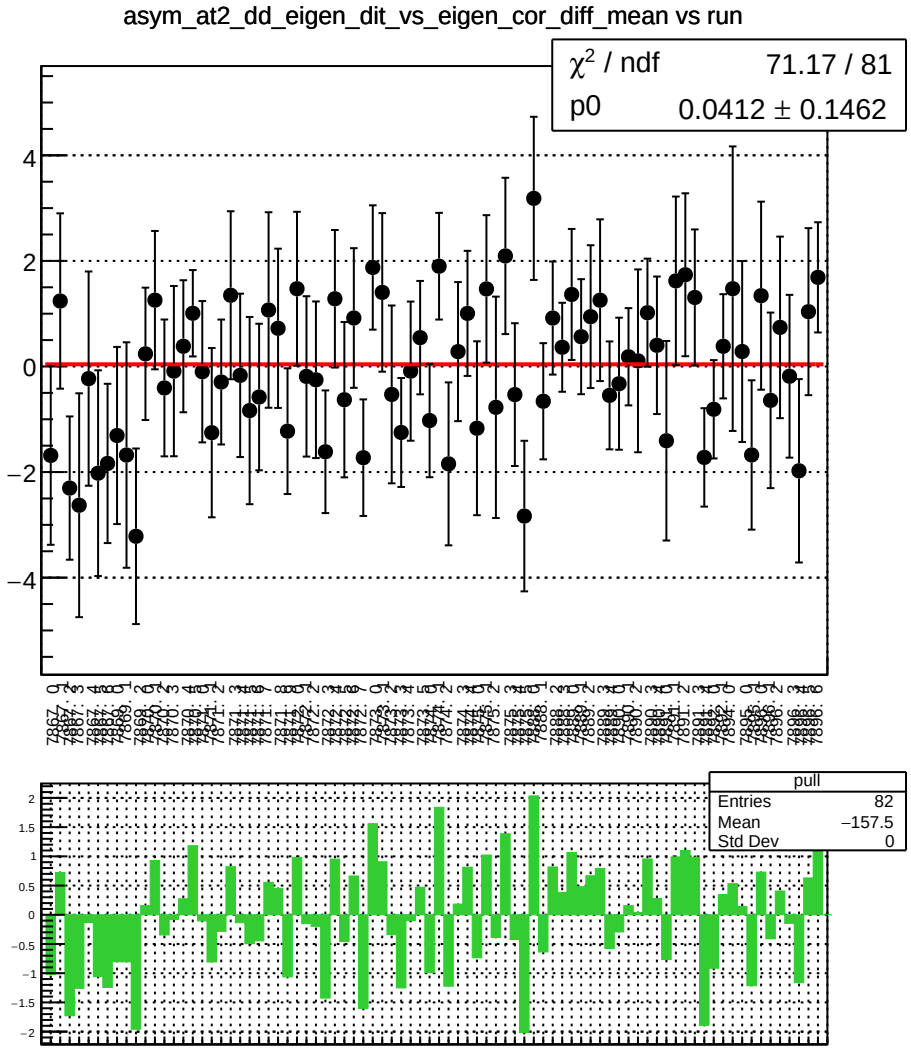

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.92 / 81
p0 1.8e−05 ± 1.415e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean −119.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

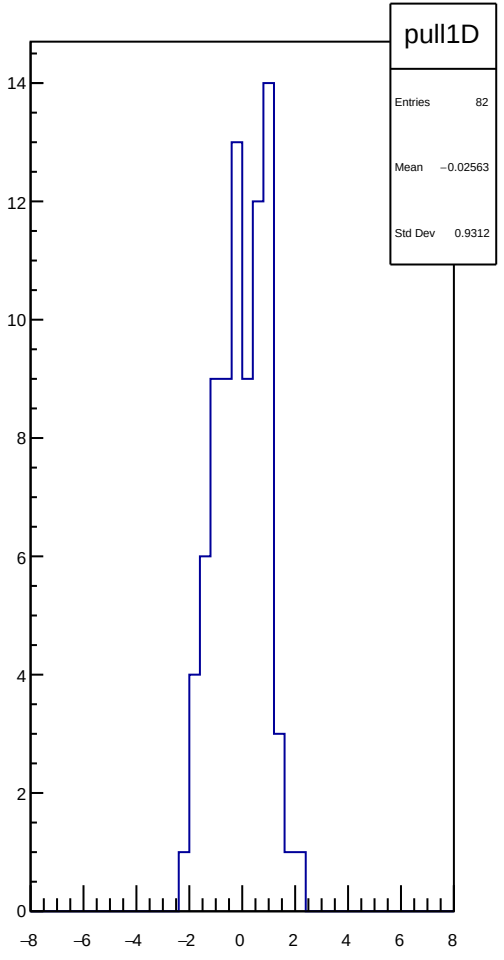

pull1D
Entries 82
Mean 0.02217
Std Dev 0.9683
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

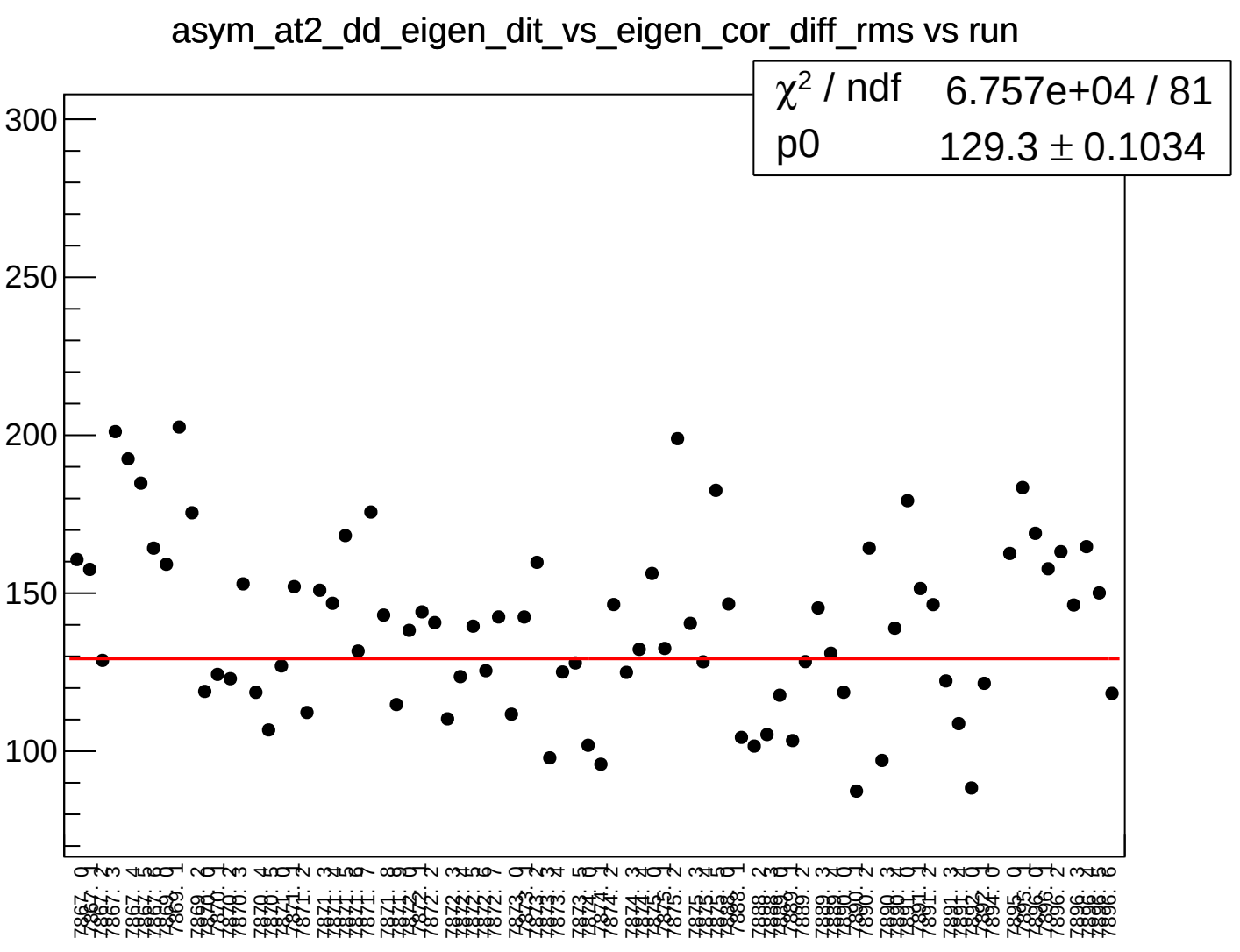

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.728e+05 / 81
p0 0.01123 ± 1e−05
0.03
0.025
0.02
0.015
0.01
0.005

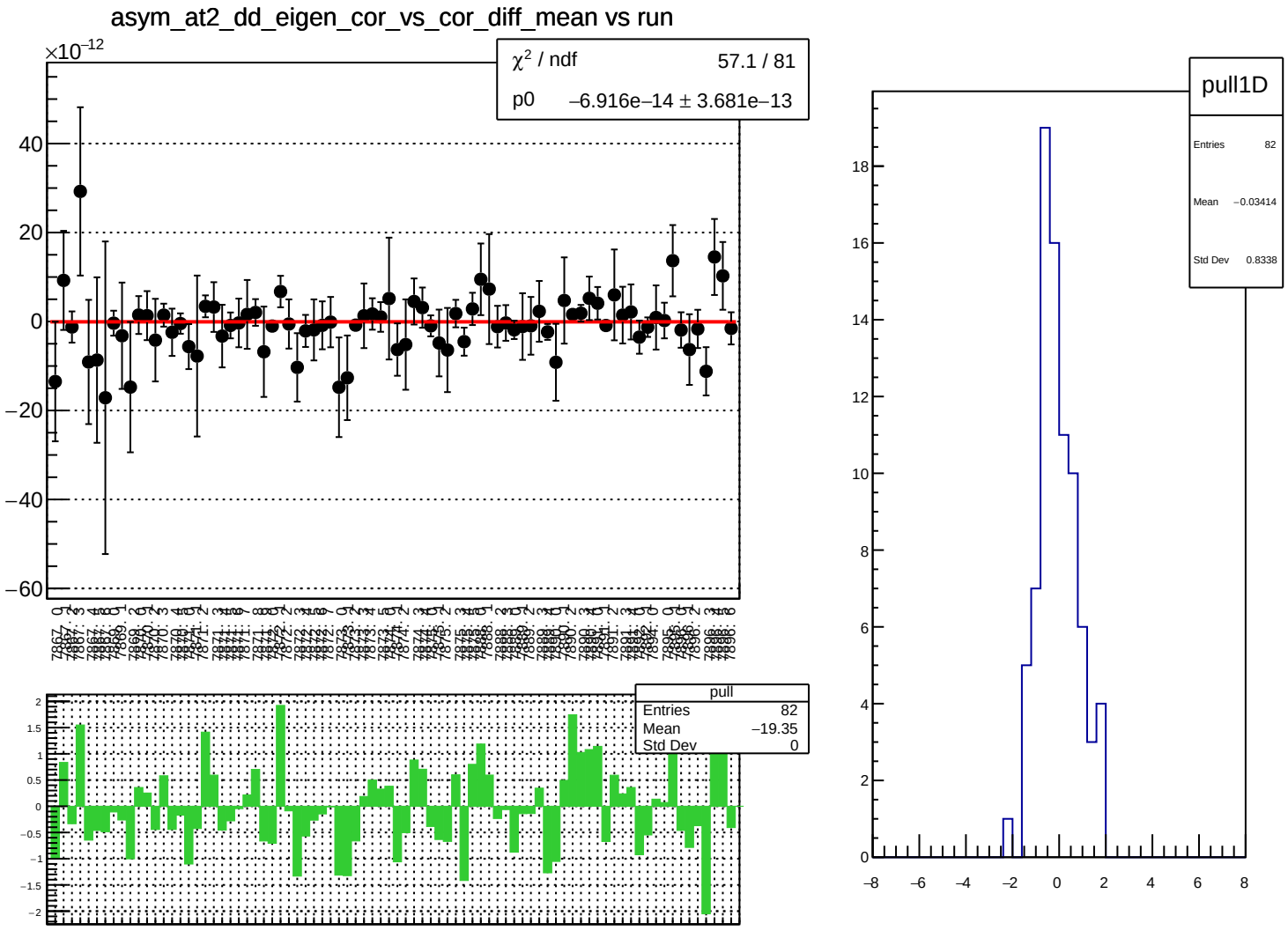

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.17 / 81
p0 0.0412 ± 0.1462
pull
Entries 82
Mean −157.5
Std Dev 0
pull1D
Entries 82
Mean −0.02563
Std Dev 0.9312

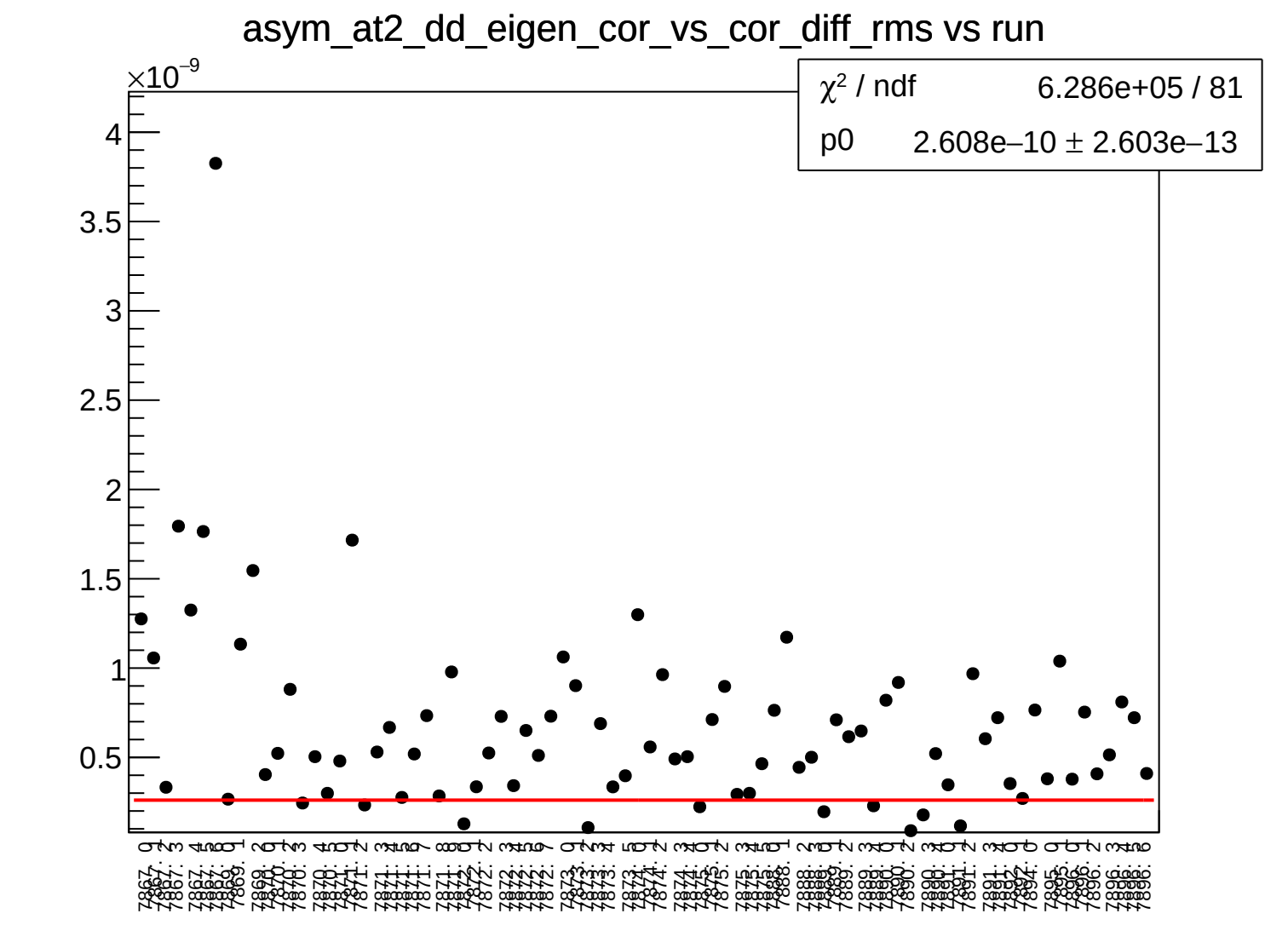

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 81
p0 129.3 ± 0.1034
300
250
200
150
100

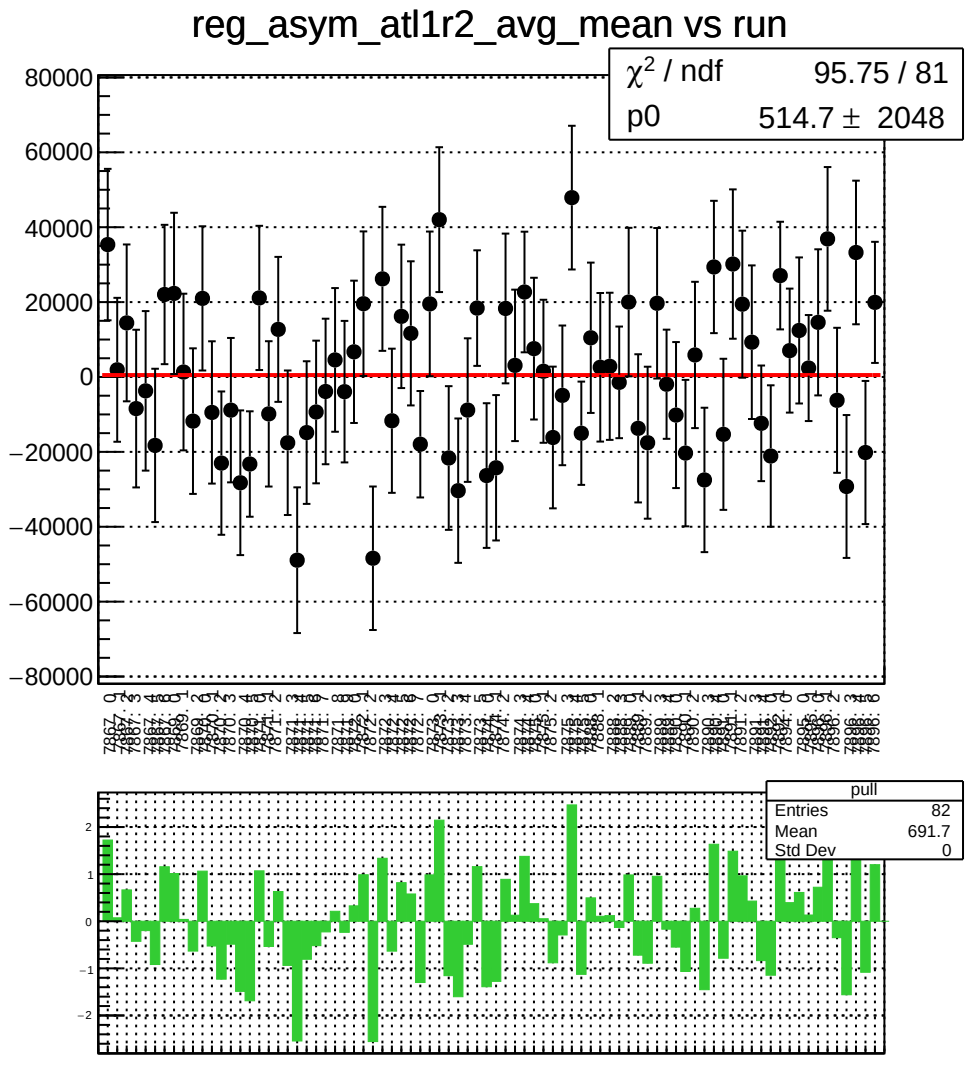

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.17 / 81
p0 0.0412 ± 0.1462
pull
Entries 82
Mean −157.5
Std Dev 0

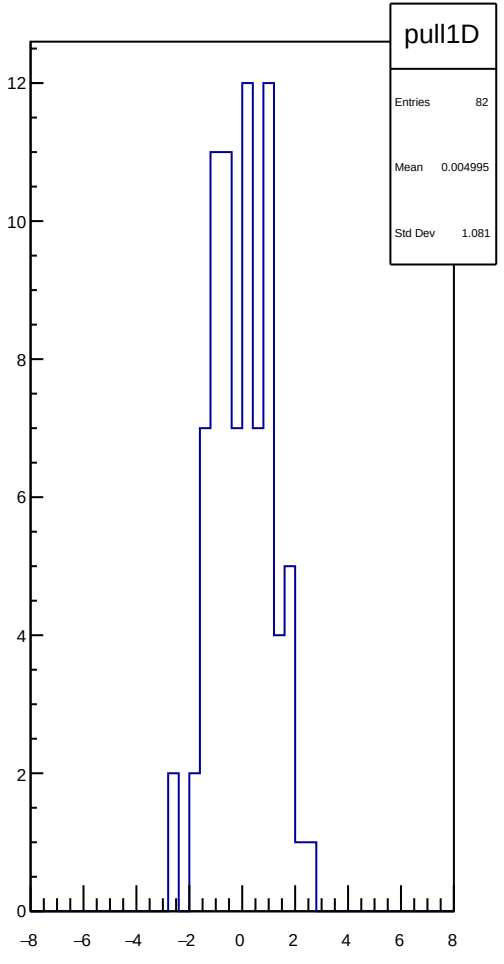

pull1D
Entries 82
Mean −0.02563
Std Dev 0.9312

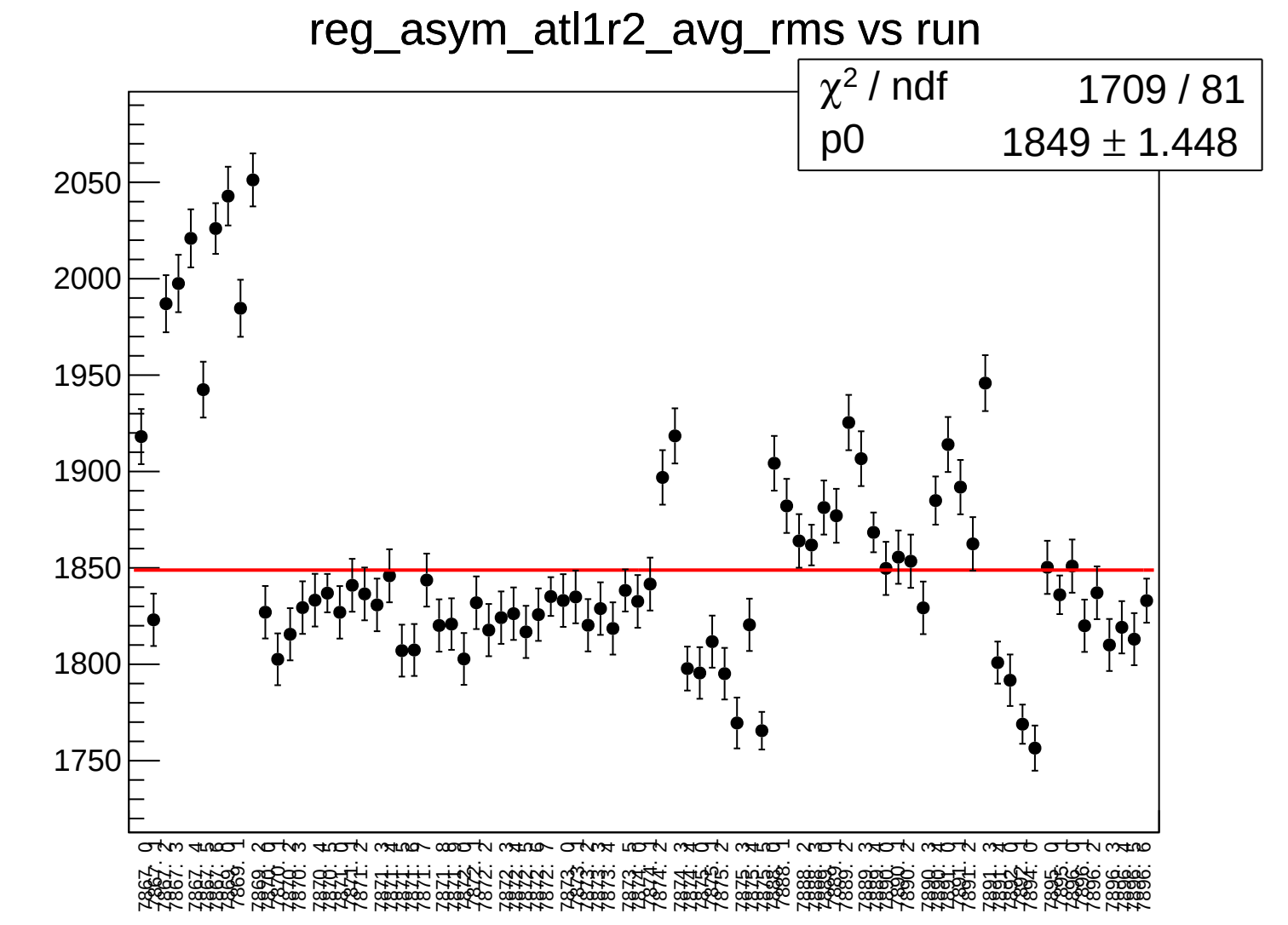

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 81
p0 129.3 ± 0.1034
300
250
200
150
100

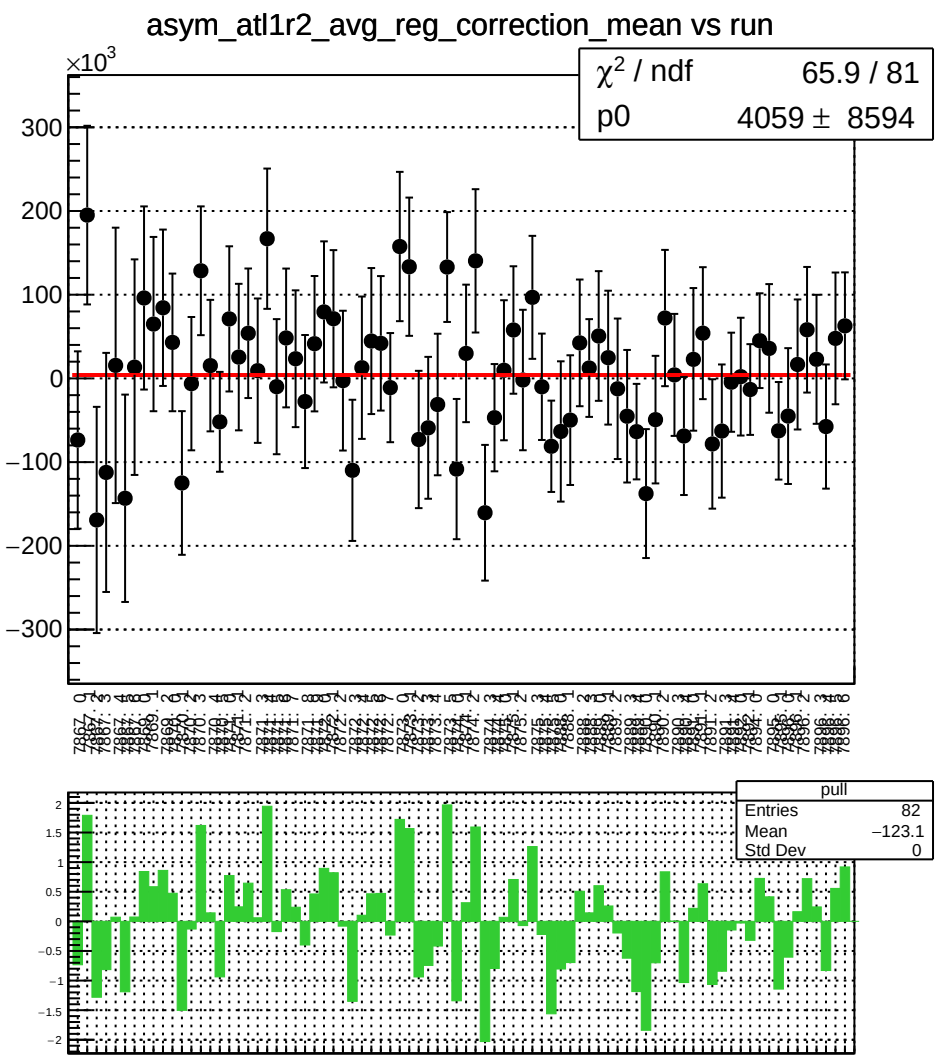

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.1 / 81
p0 −6.916e−14 ± 3.681e−13
pull
Entries 82
Mean −19.35
Std Dev 0
pull1D
Entries 82
Mean −0.03414
Std Dev 0.8338

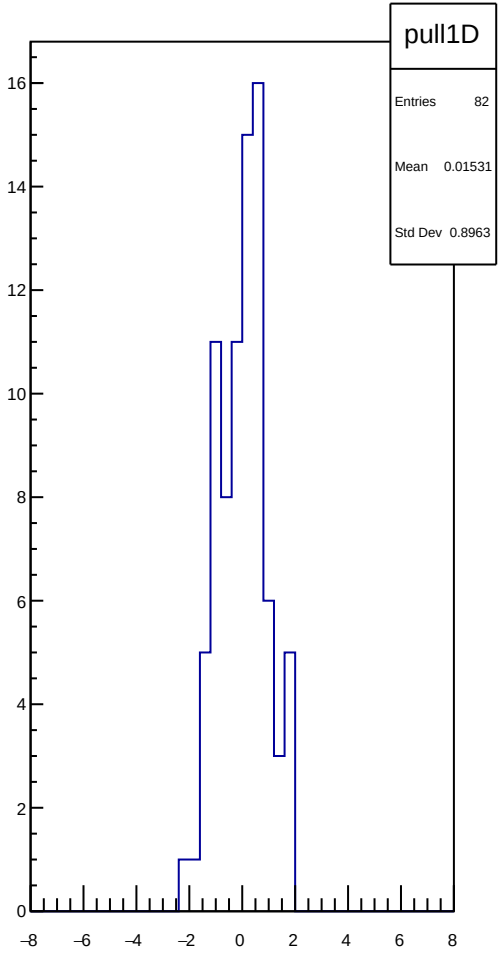

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.286e+05 / 81
p0 2.608e−10 ± 2.603e−13
4
3.5
3
2.5
2
1.5
1
0.5

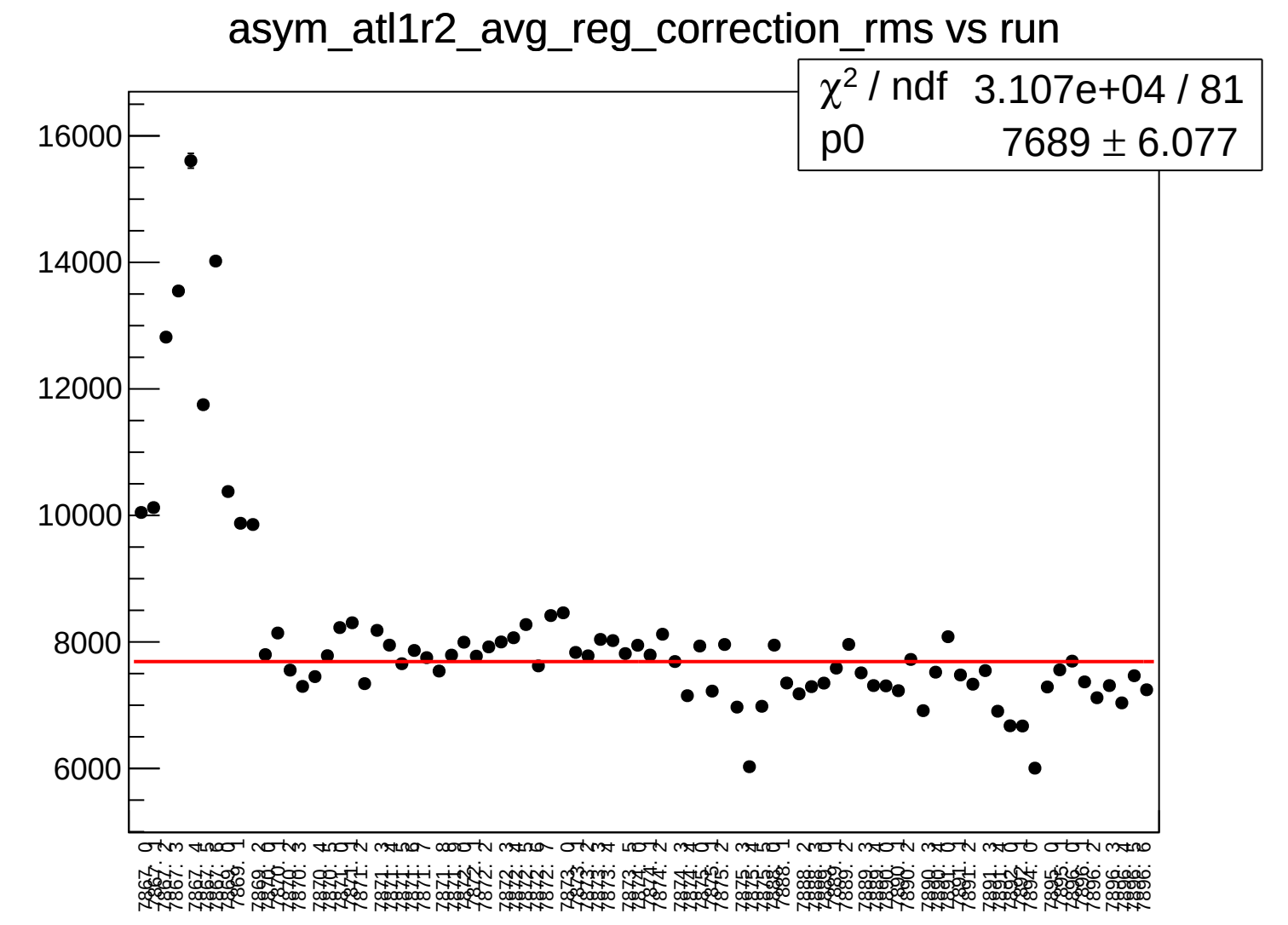

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 95.75 / 81
p0 514.7 ± 2048
pull
Entries 82
Mean 691.7
Std Dev 0

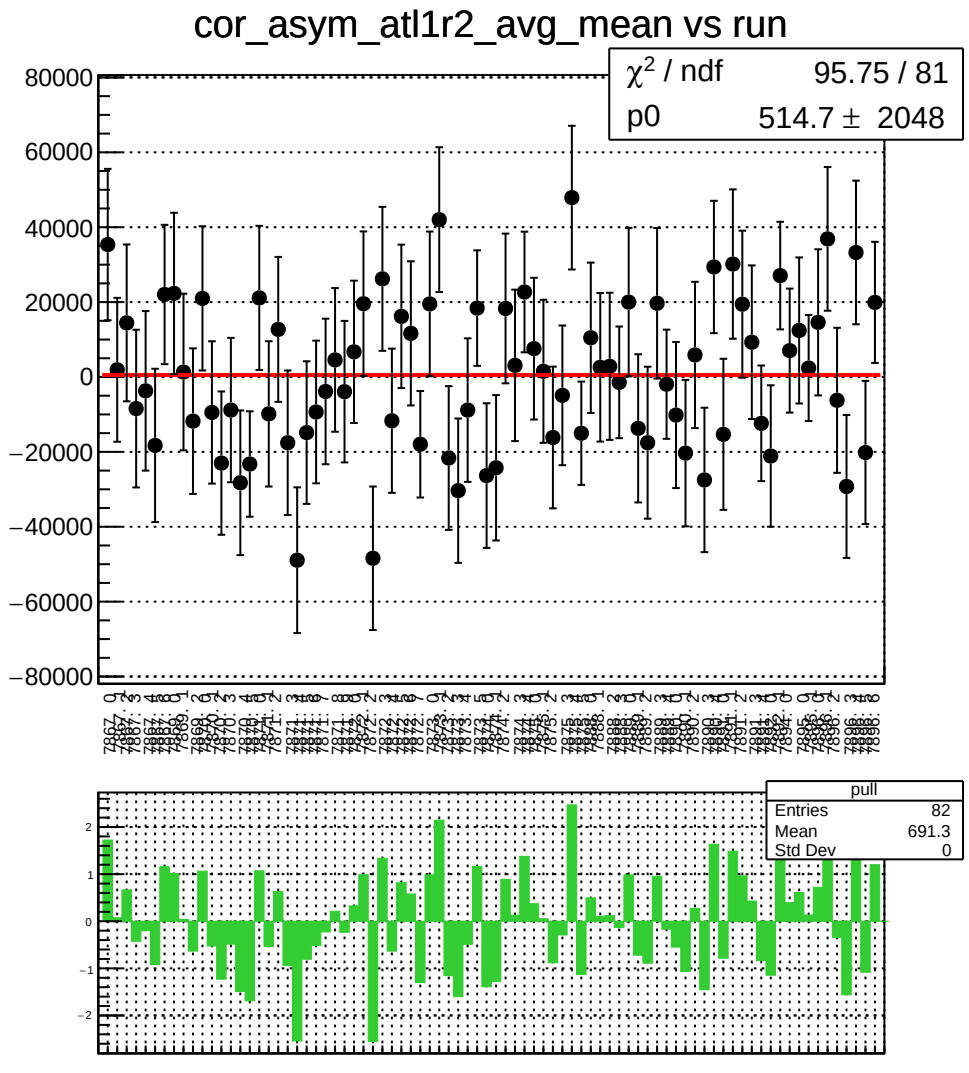

pull1D
Entries 82
Mean 0.004995
Std Dev 1.081

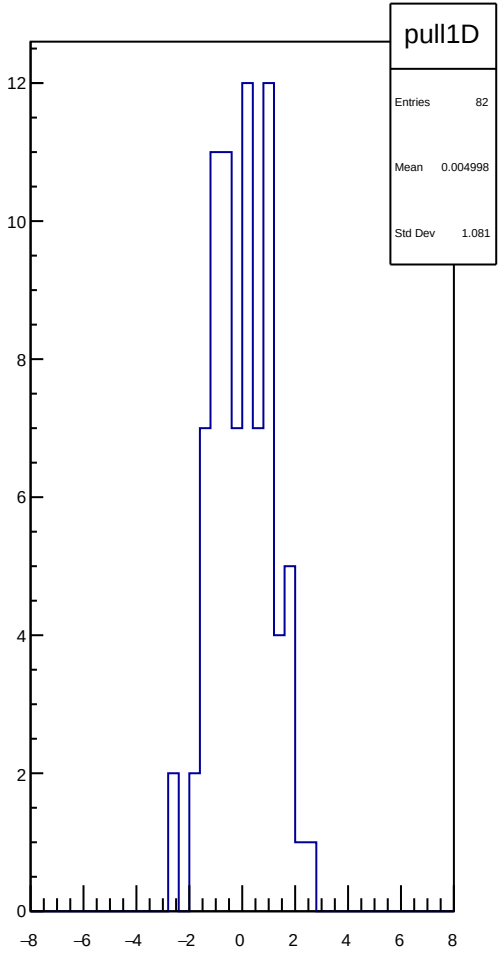

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1709 / 81
p0 1849 ± 1.448
2050
2000
1950
1900
1850
1800
1750

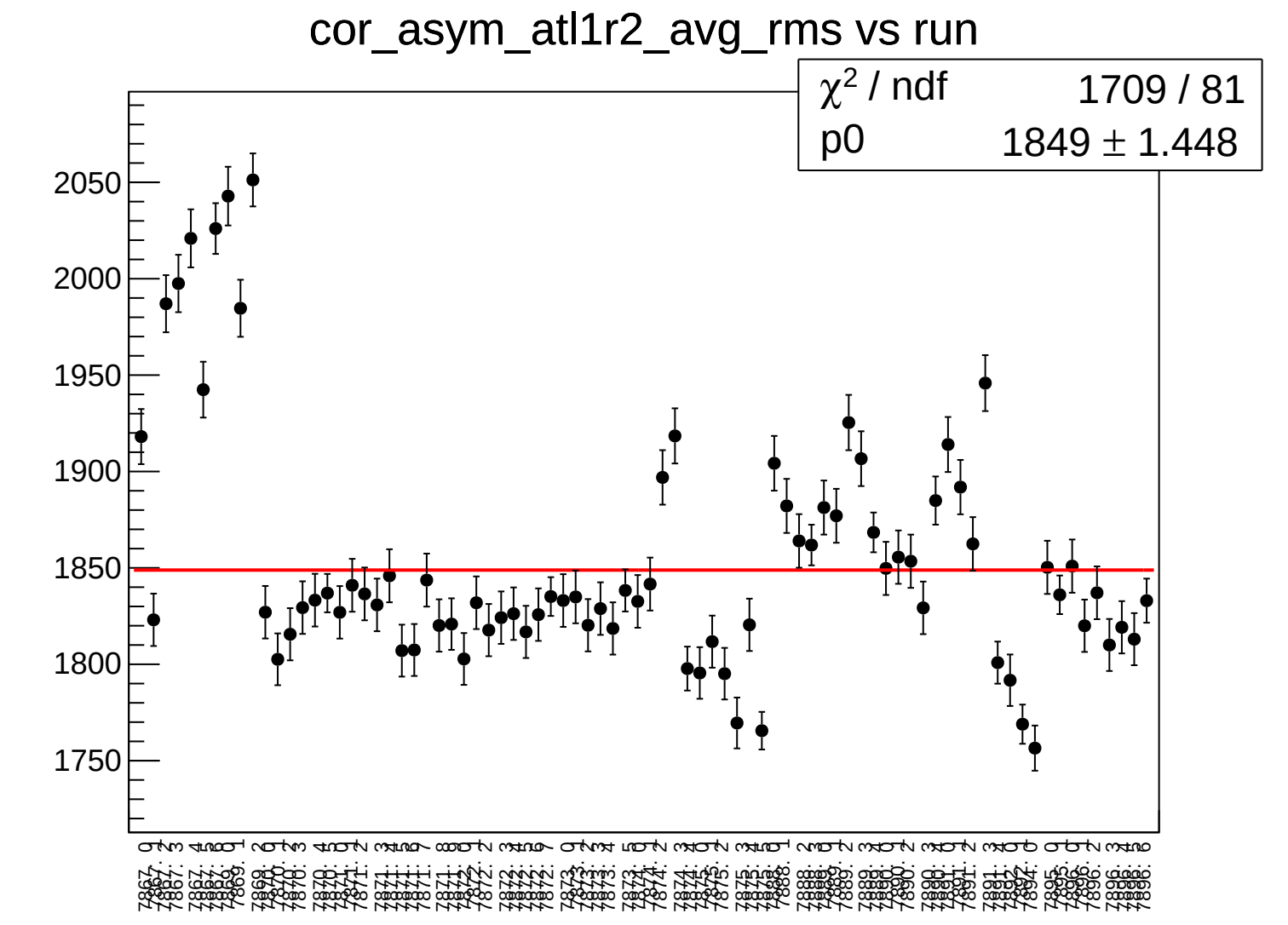

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.9 / 81
p0 4059 ± 8594
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −123.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

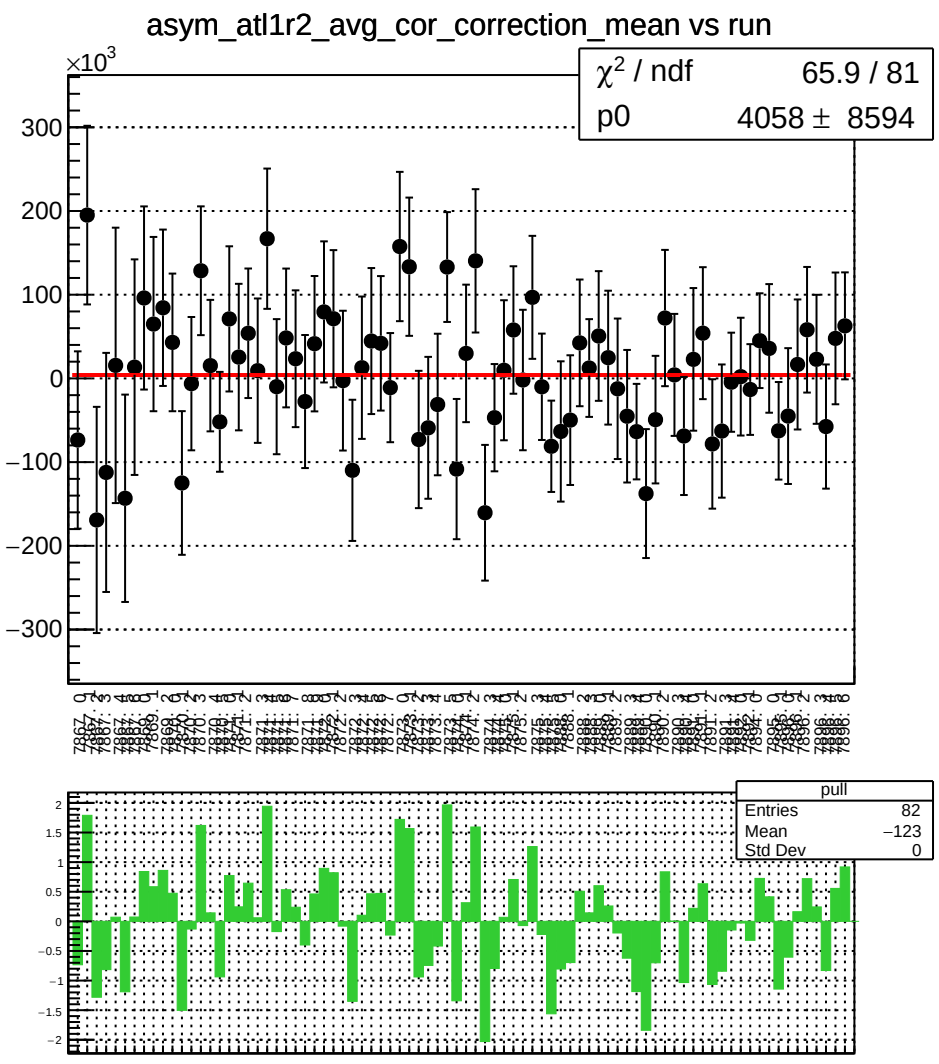

pull1D
Entries 82
Mean 0.01531
Std Dev 0.8963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

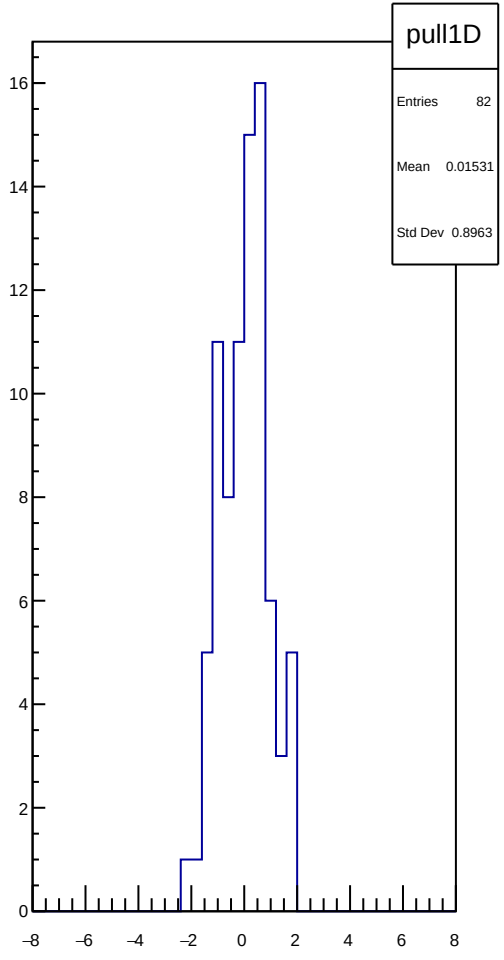

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3.107e+04 / 81
p0 7689 ± 6.077
16000
14000
12000
10000
8000
6000

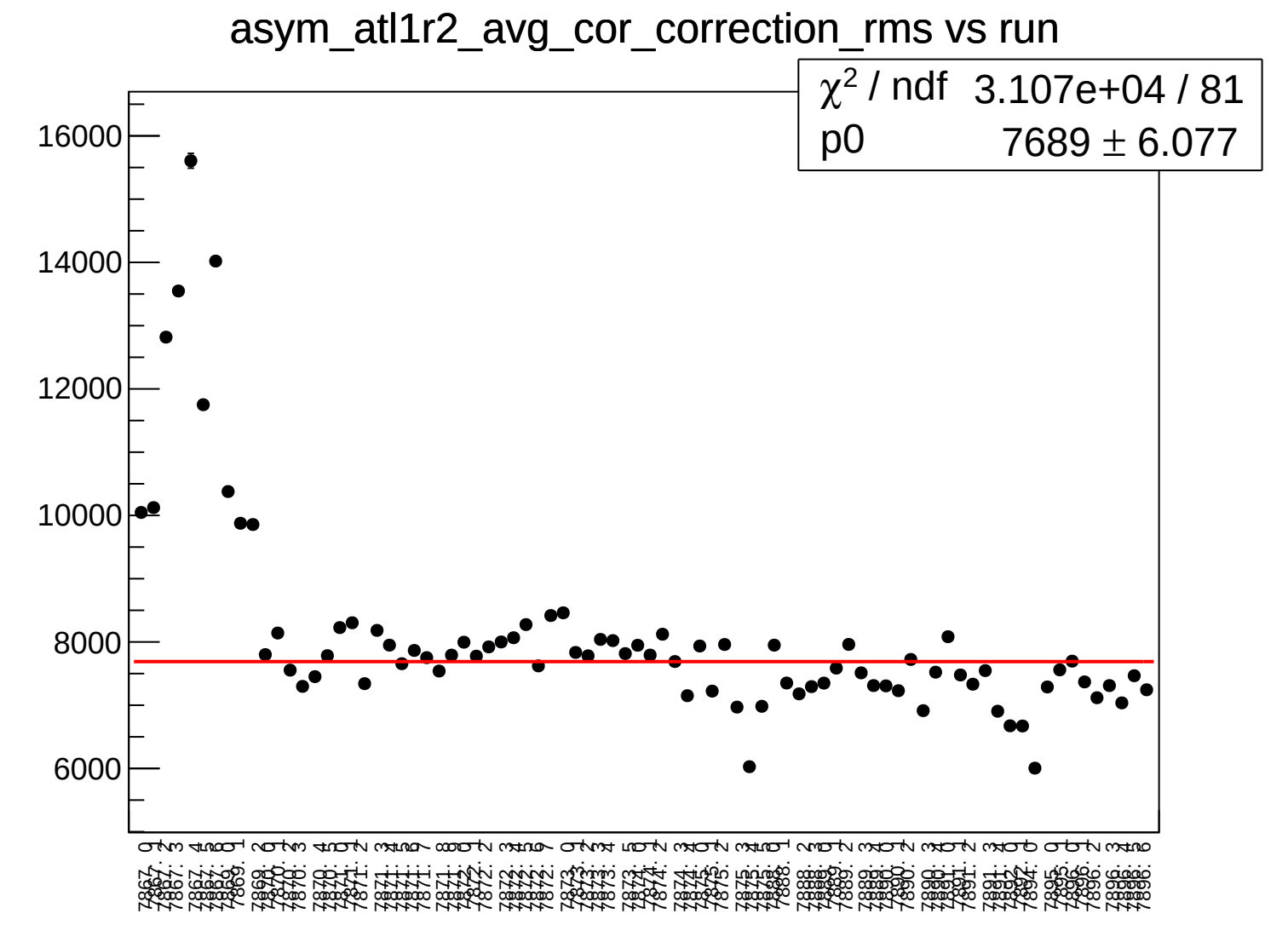

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 95.75 / 81
p0 514.7 ± 2048
pull
Entries 82
Mean 691.3
Std Dev 0

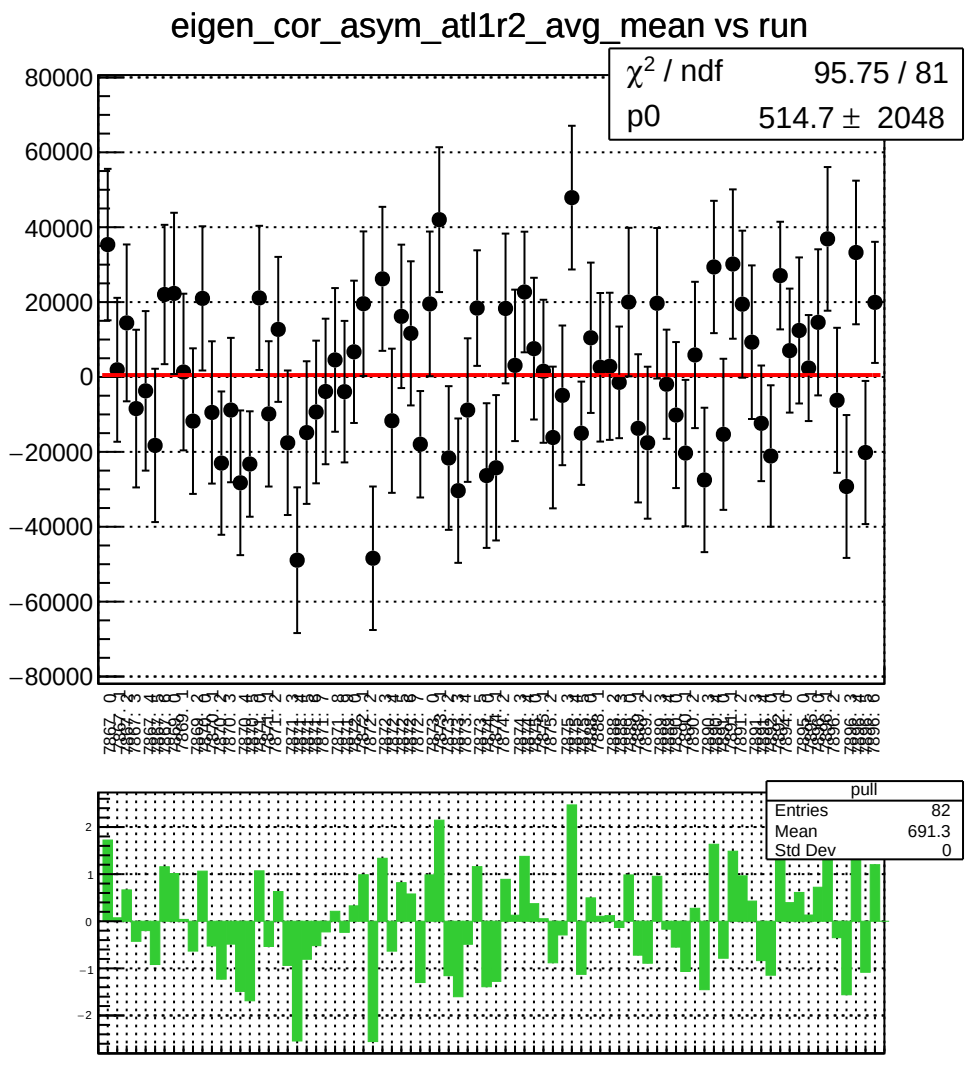

pull1D
Entries 82
Mean 0.004998
Std Dev 1.081

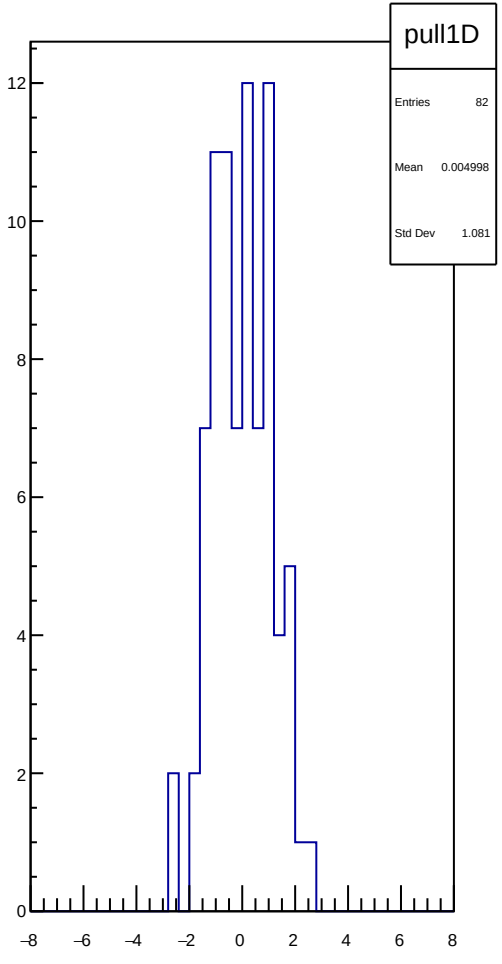

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1709 / 81
p0 1849 ± 1.448
2050
2000
1950
1900
1850
1800
1750

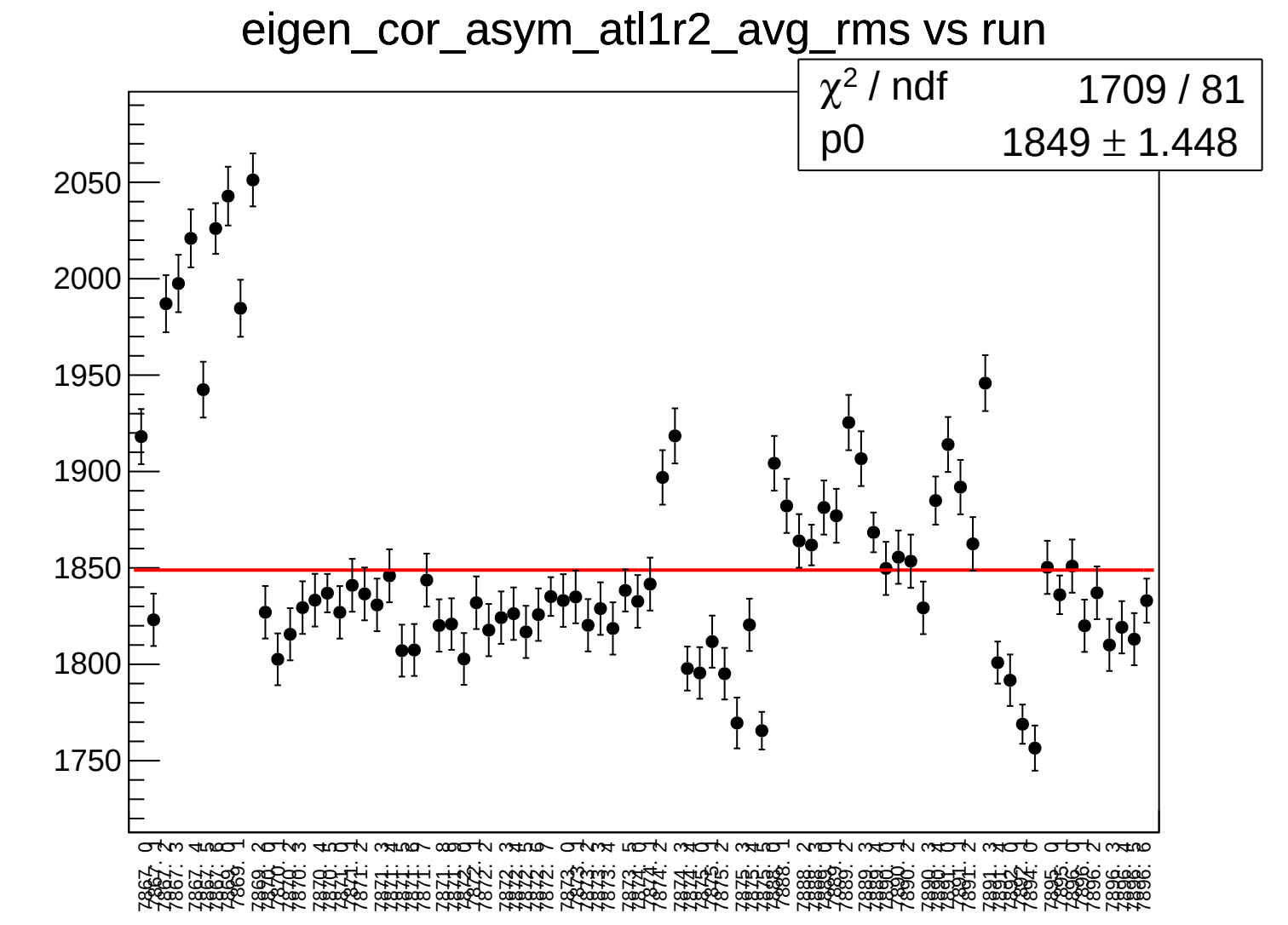

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.9 / 81
p0 4058 ± 8594
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −123
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

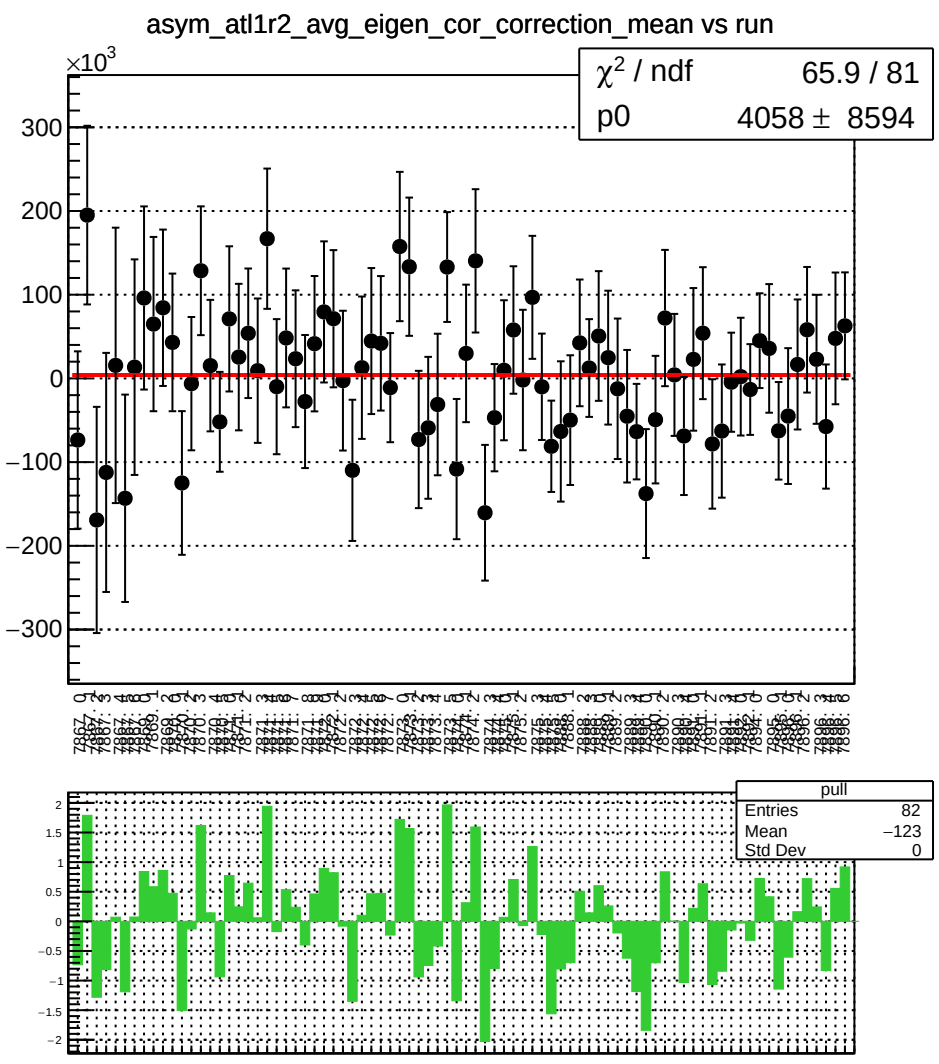

pull1D
Entries 82
Mean 0.01531
Std Dev 0.8963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

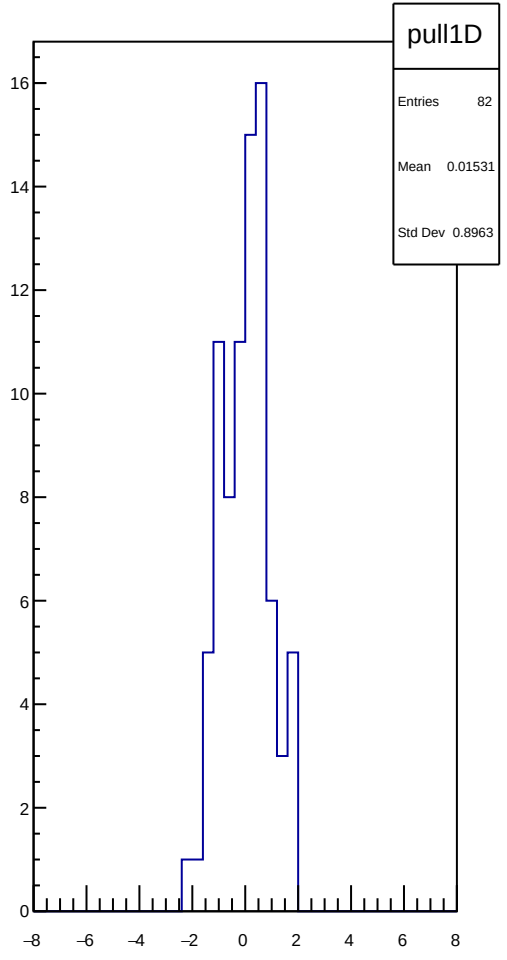

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3.107e+04 / 81
p0 7689 ± 6.077
16000
14000
12000
10000
8000
6000

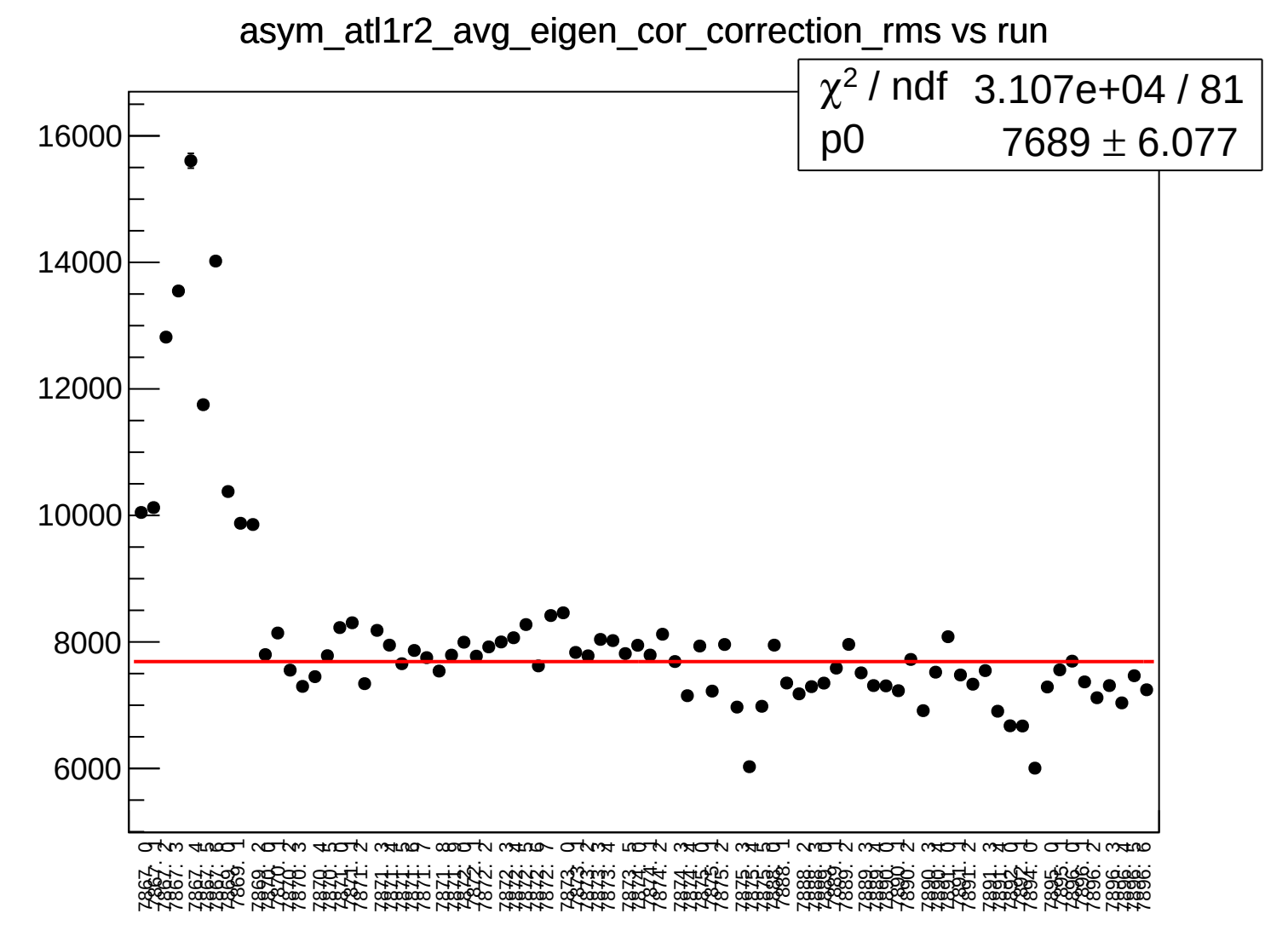

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 95.75 / 81
p0 514.7 ± 2048
pull
Entries 82
Mean 691.3
Std Dev 0

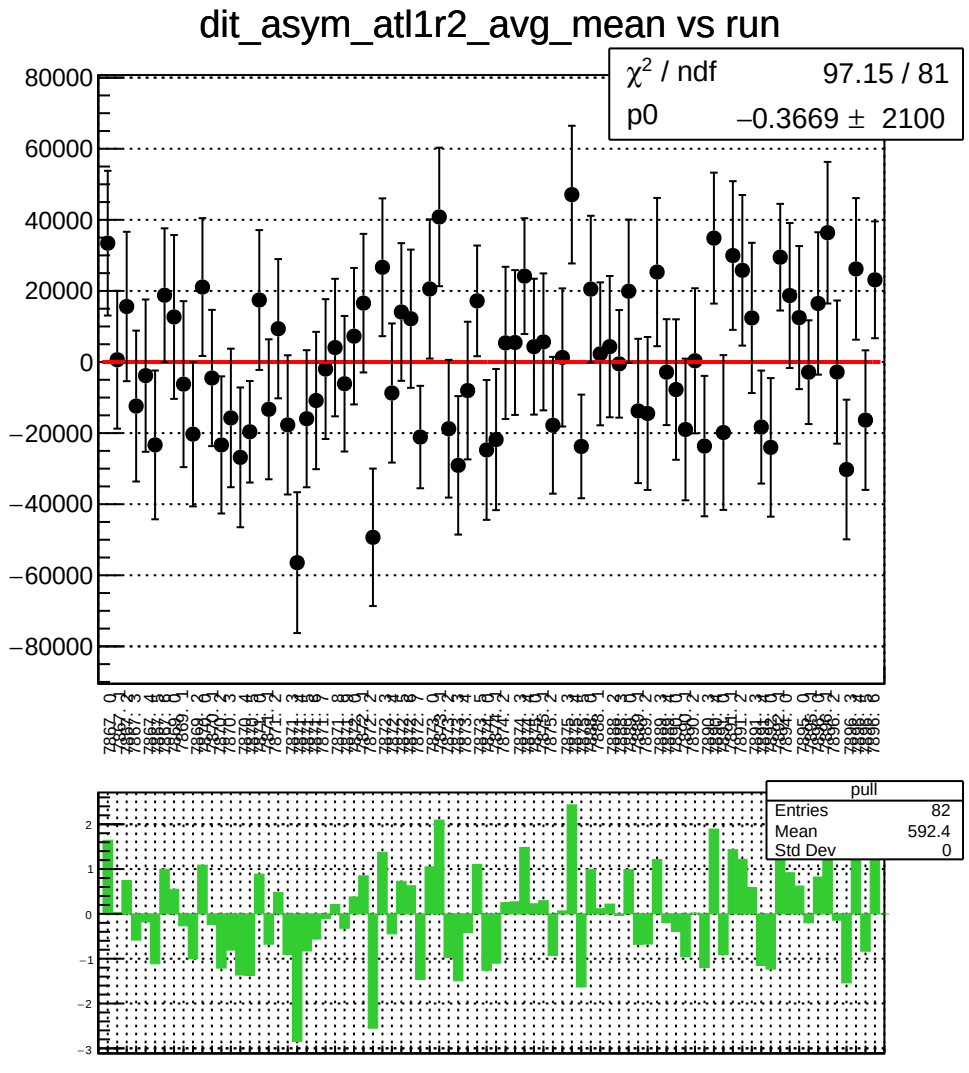

pull1D
Entries 82
Mean 0.004998
Std Dev 1.081

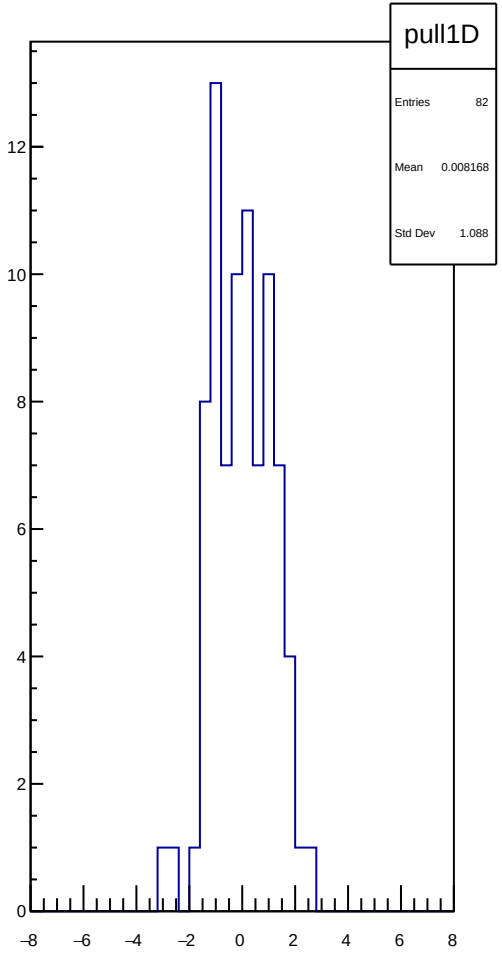

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1709 / 81
p0 1849 ± 1.448
2050
2000
1950
1900
1850
1800
1750

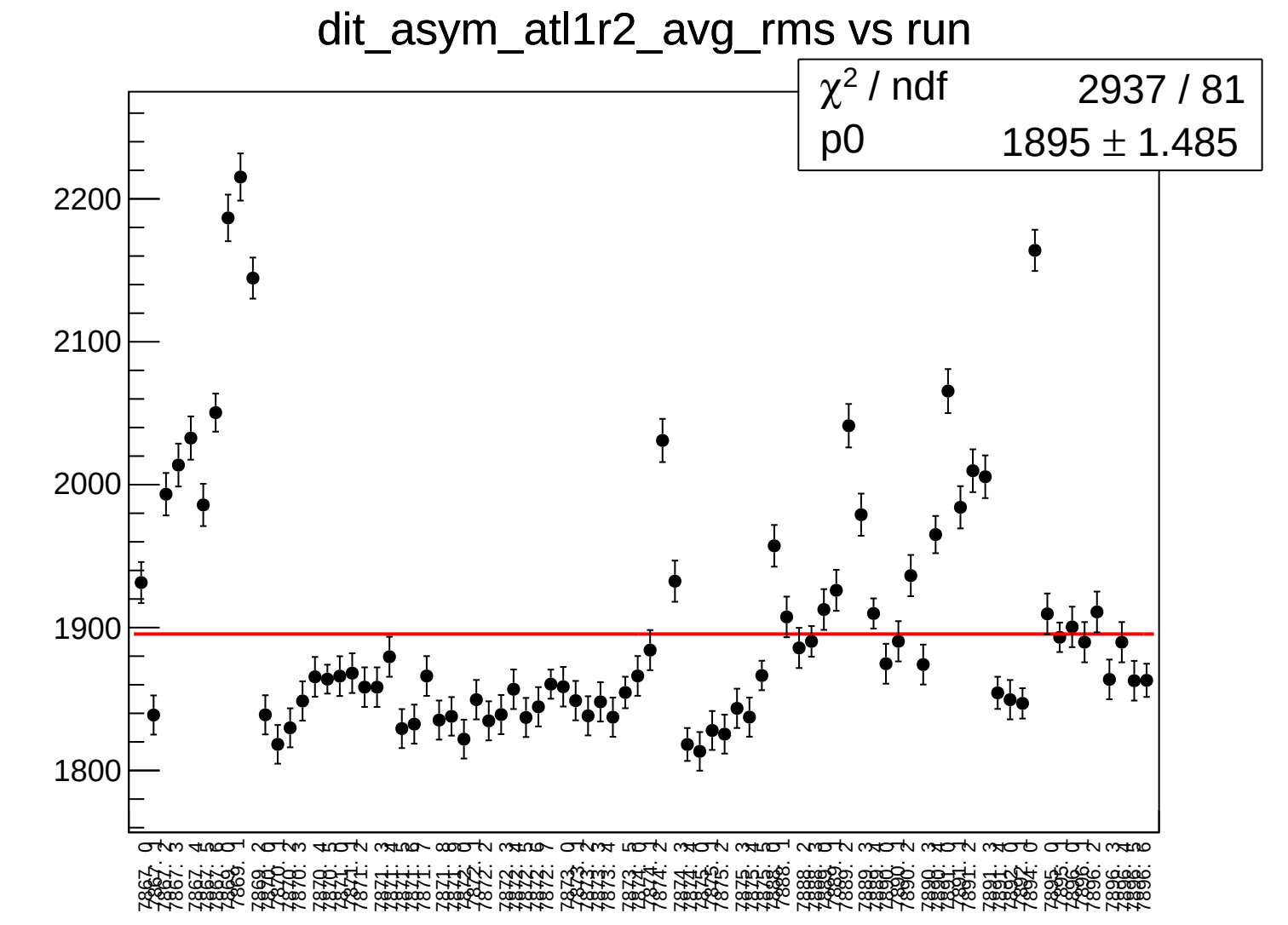

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.9 / 81
p0 4058 ± 8594
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −123
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

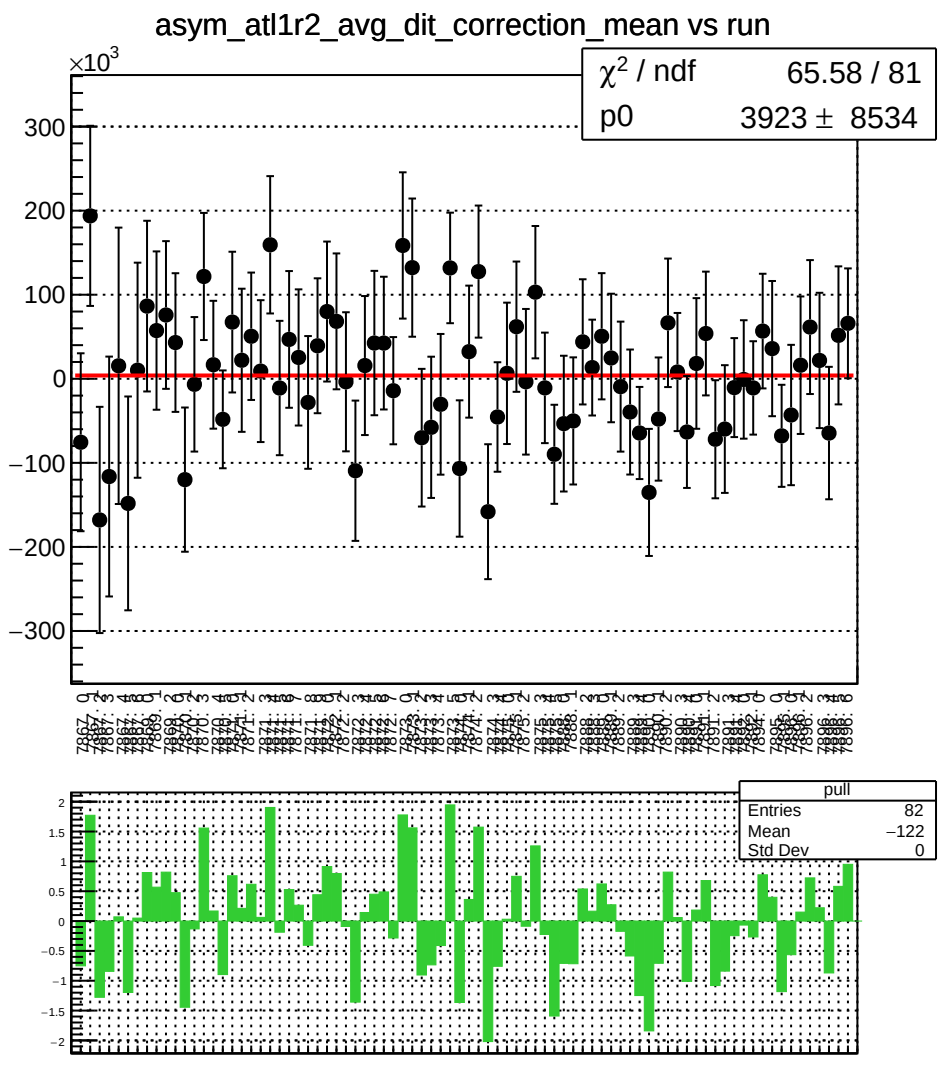

pull1D
Entries 82
Mean 0.01531
Std Dev 0.8963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

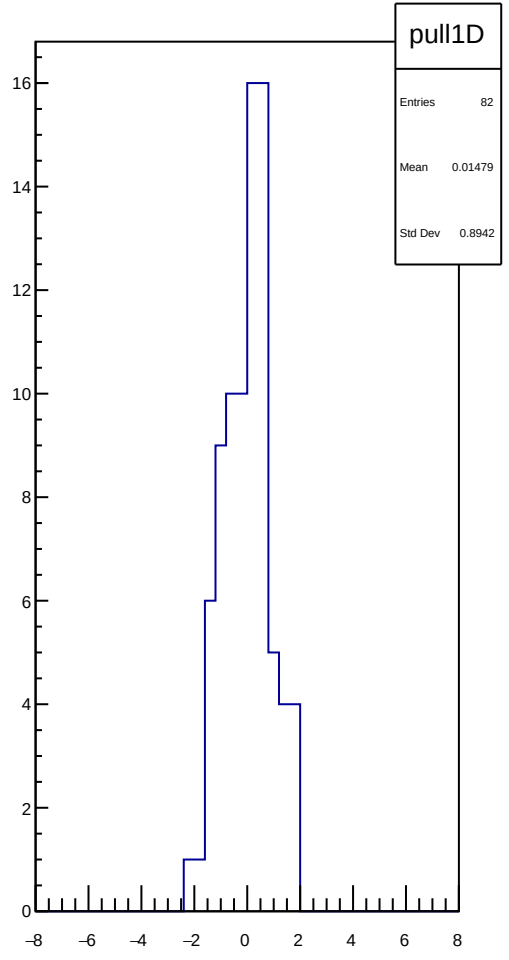

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.107e+04 / 81
p0 7689 ± 6.077
16000
14000
12000
10000
8000
6000

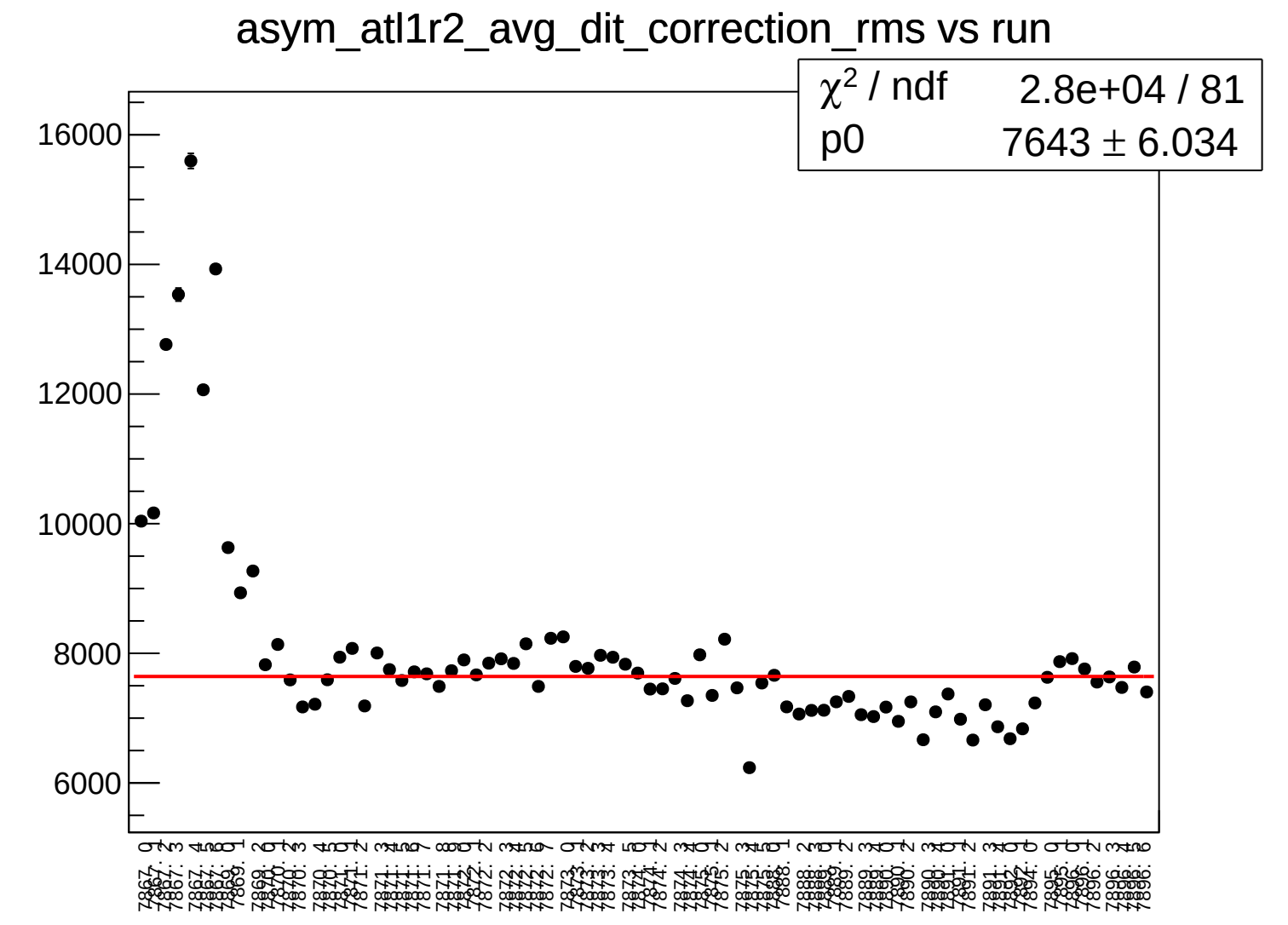

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 97.15 / 81
p0 −0.3669 ± 2100
pull
Entries 82
Mean 592.4
Std Dev 0

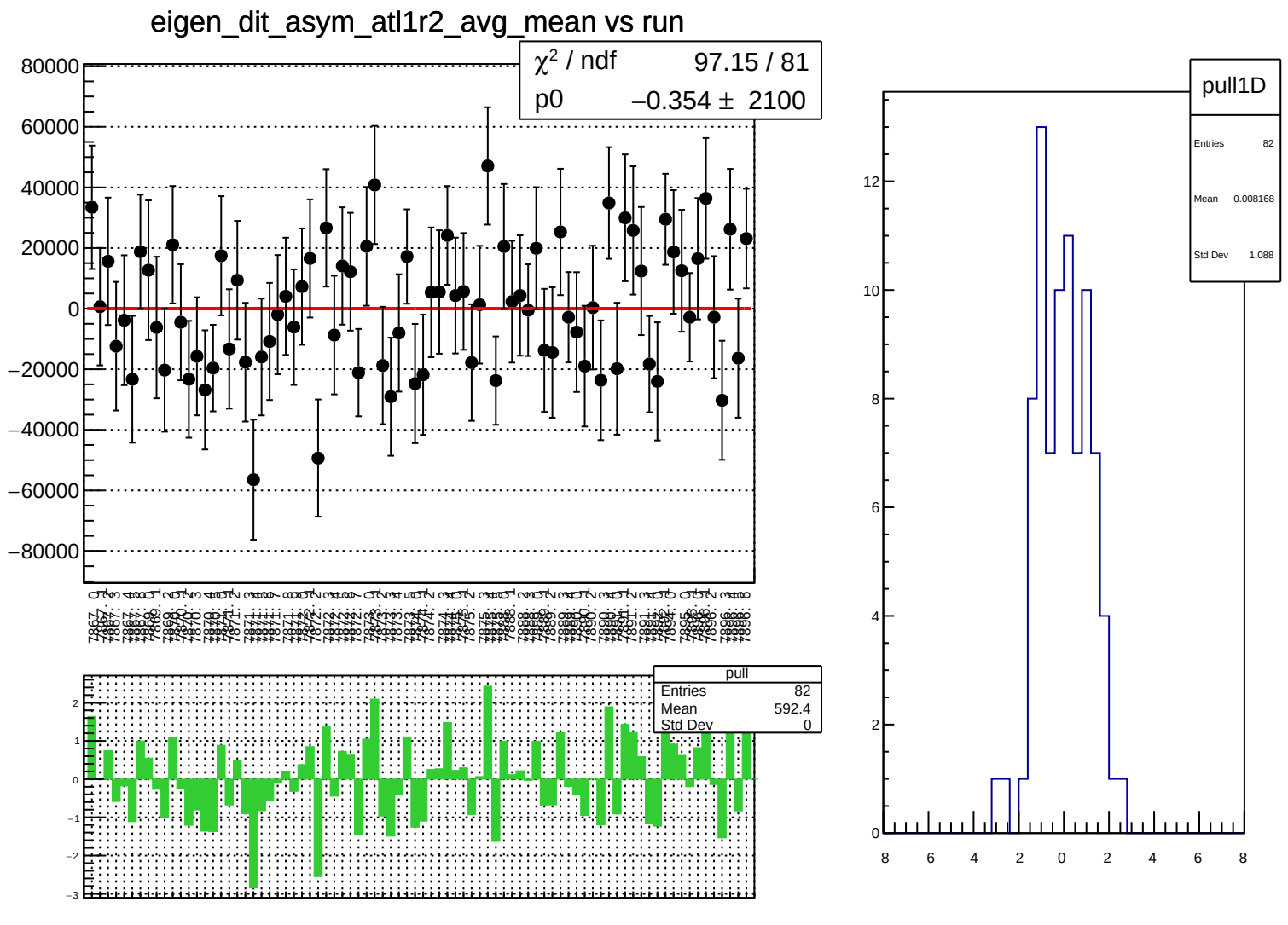

pull1D
Entries 82
Mean 0.008168
Std Dev 1.088

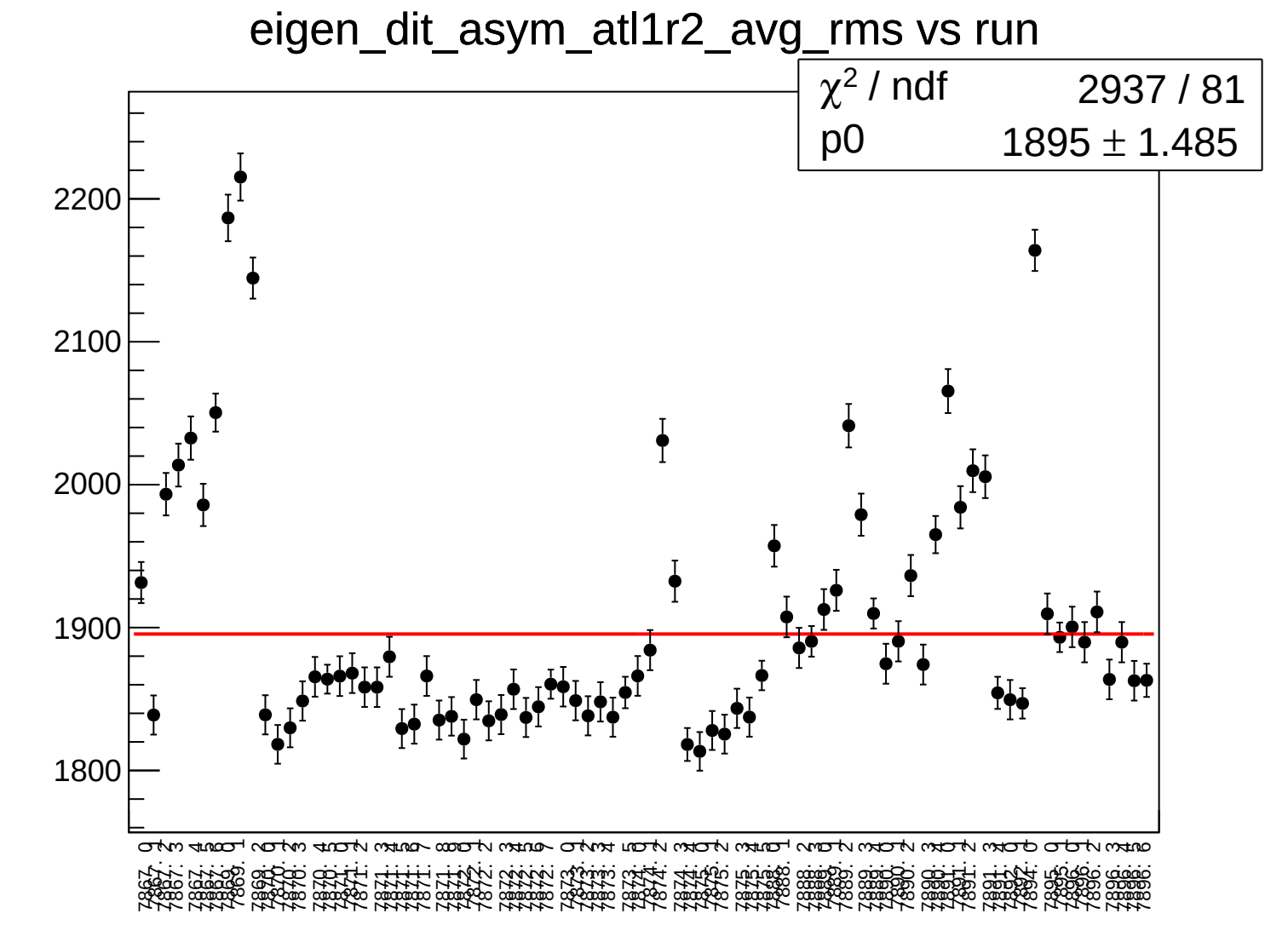

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 2937 / 81
p0 1895 ± 1.485
2200
2100
2000
1900
1800

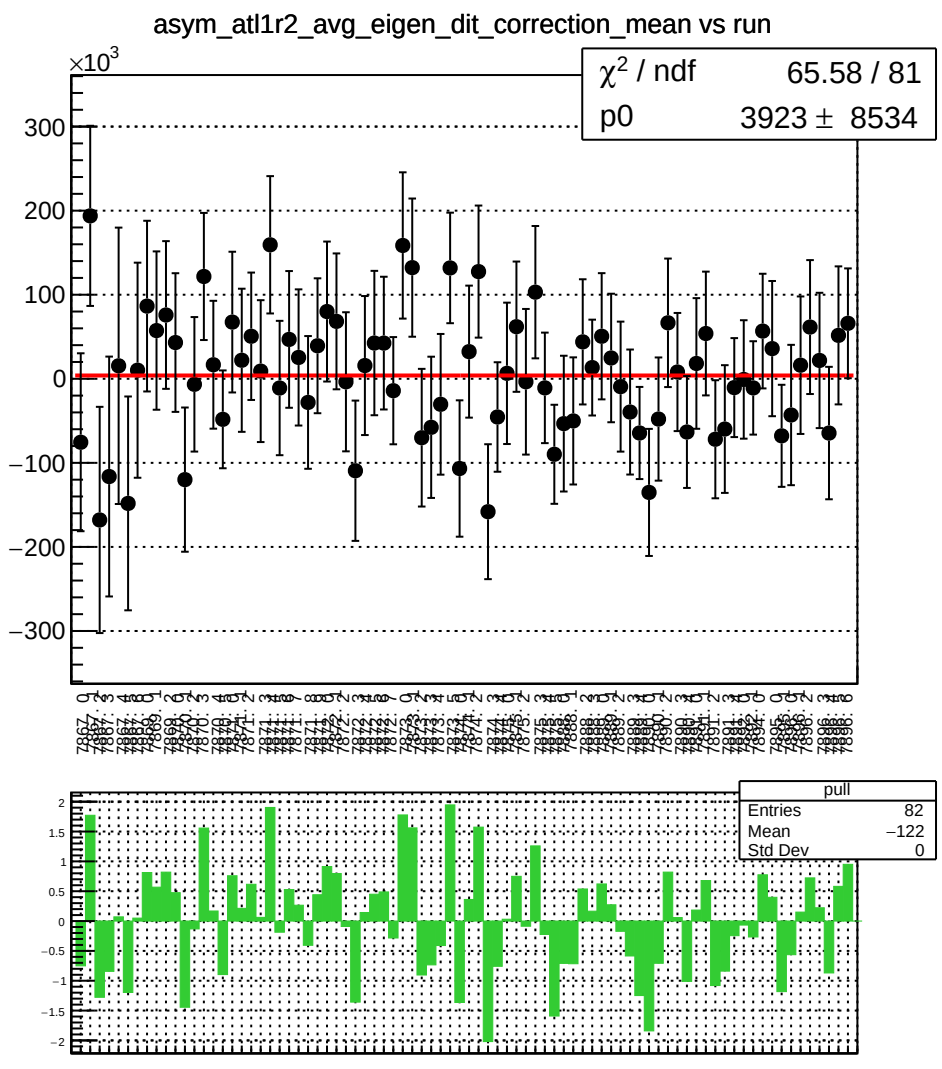

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 65.58 / 81
p0 3923 ± 8534
×10³
pull
Entries 82
Mean −122
Std Dev 0

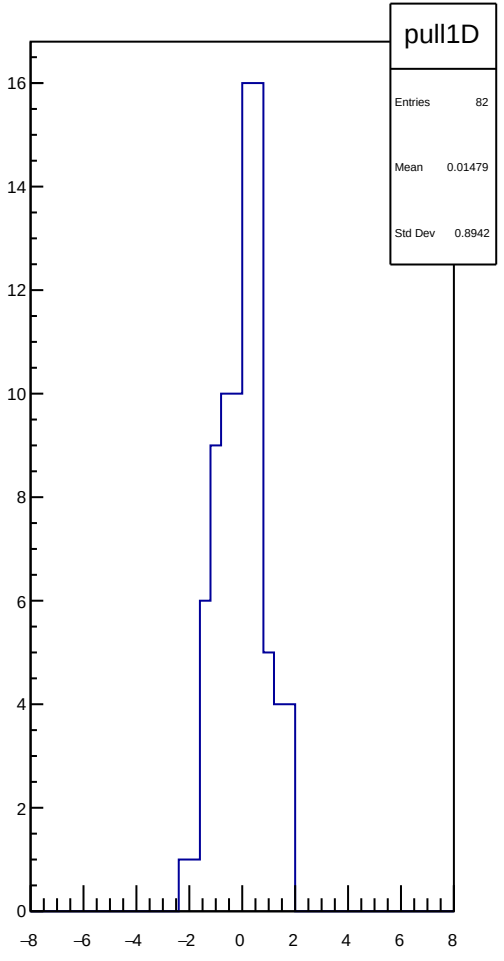

pull1D
Entries 82
Mean 0.01479
Std Dev 0.8942

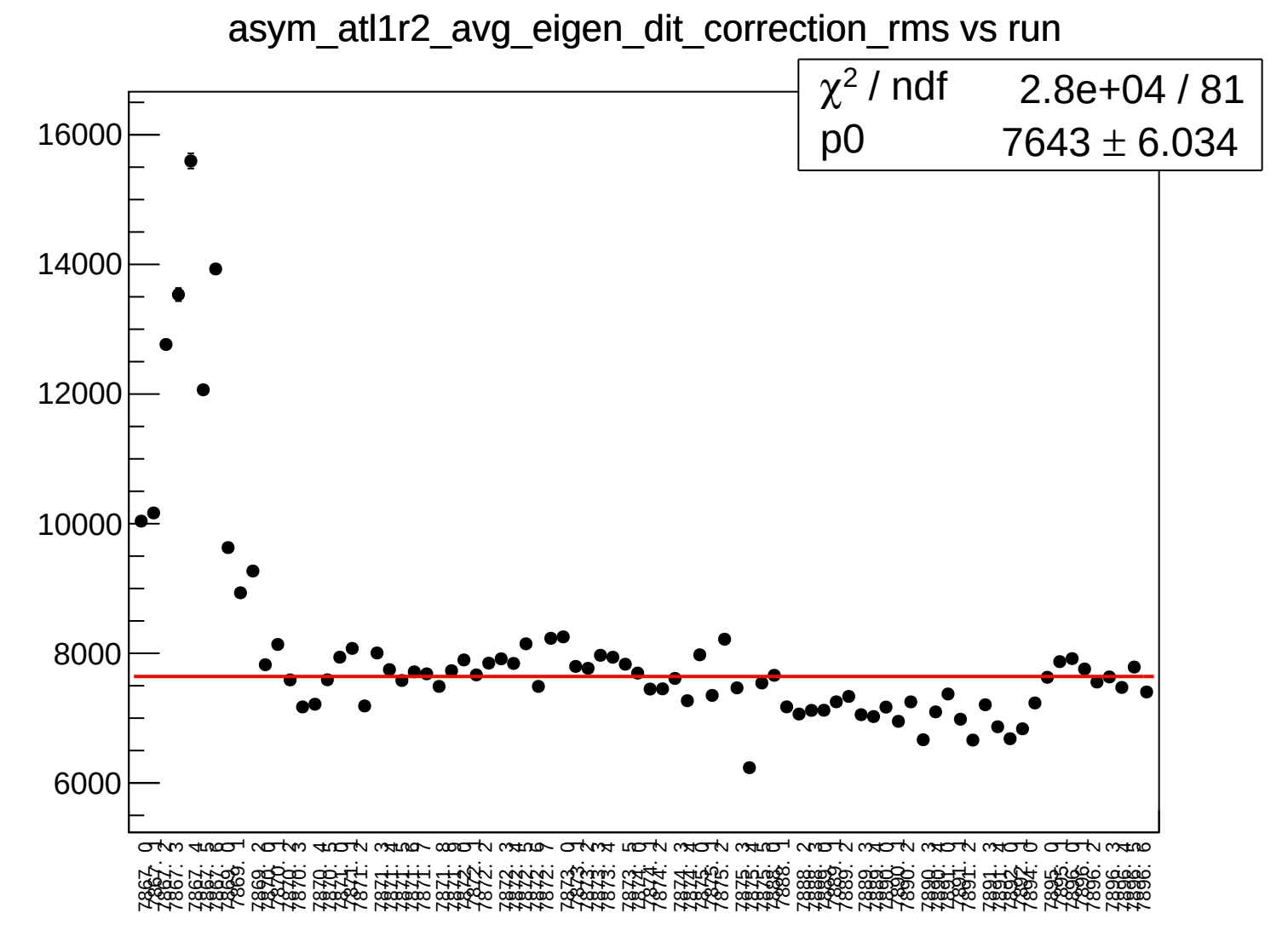

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 81
p0 7643 ± 6.034
16000
14000
12000
10000
8000
6000

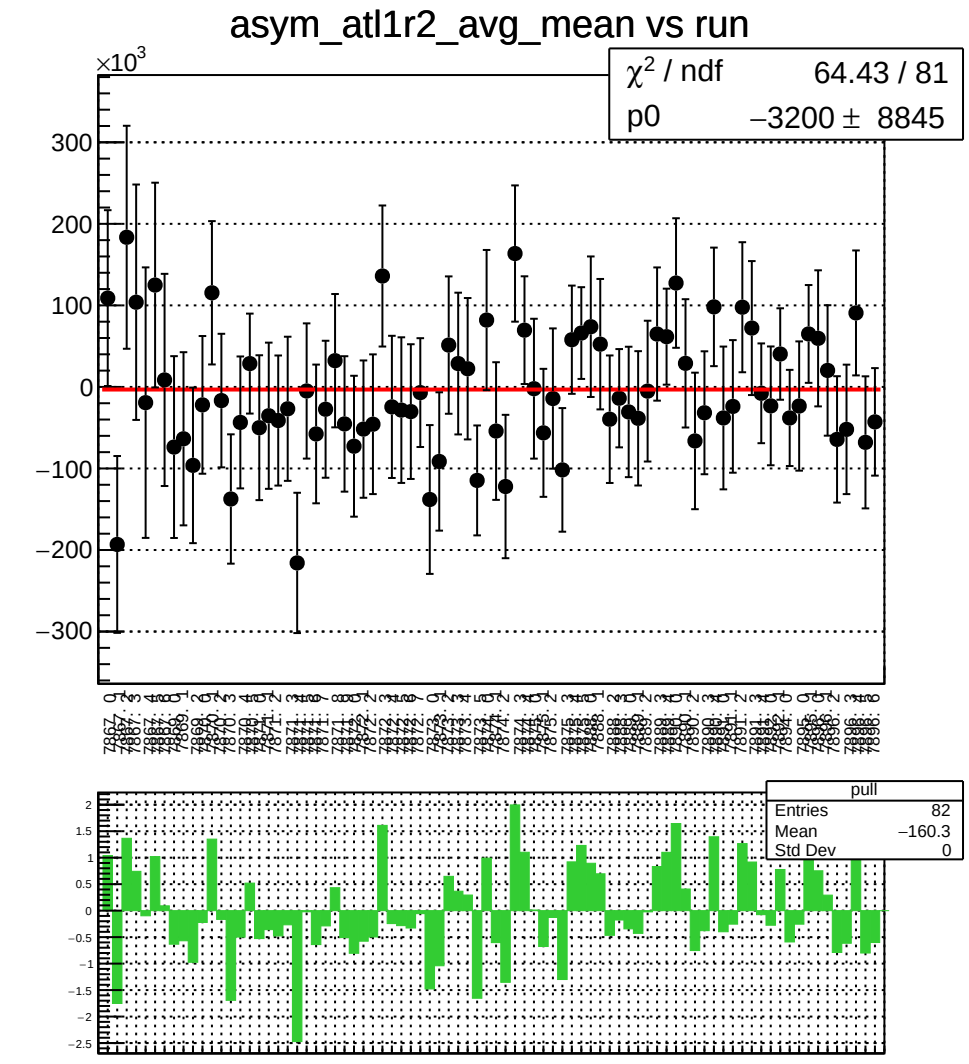

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 97.15 / 81
p0 −0.354 ± 2100
pull
Entries 82
Mean 592.4
Std Dev 0
pull1D
Entries 82
Mean 0.008168
Std Dev 1.088

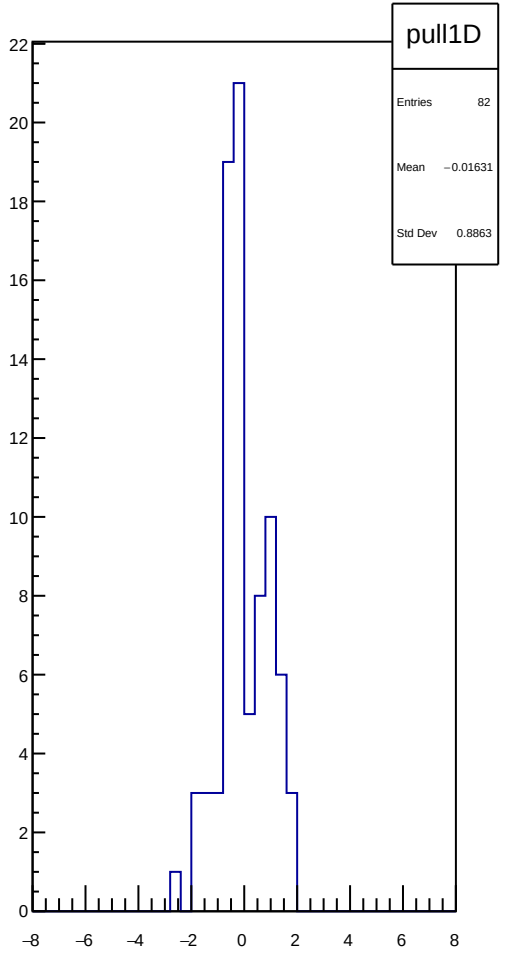

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 2937 / 81
p0 1895 ± 1.485
2200
2100
2000
1900
1800

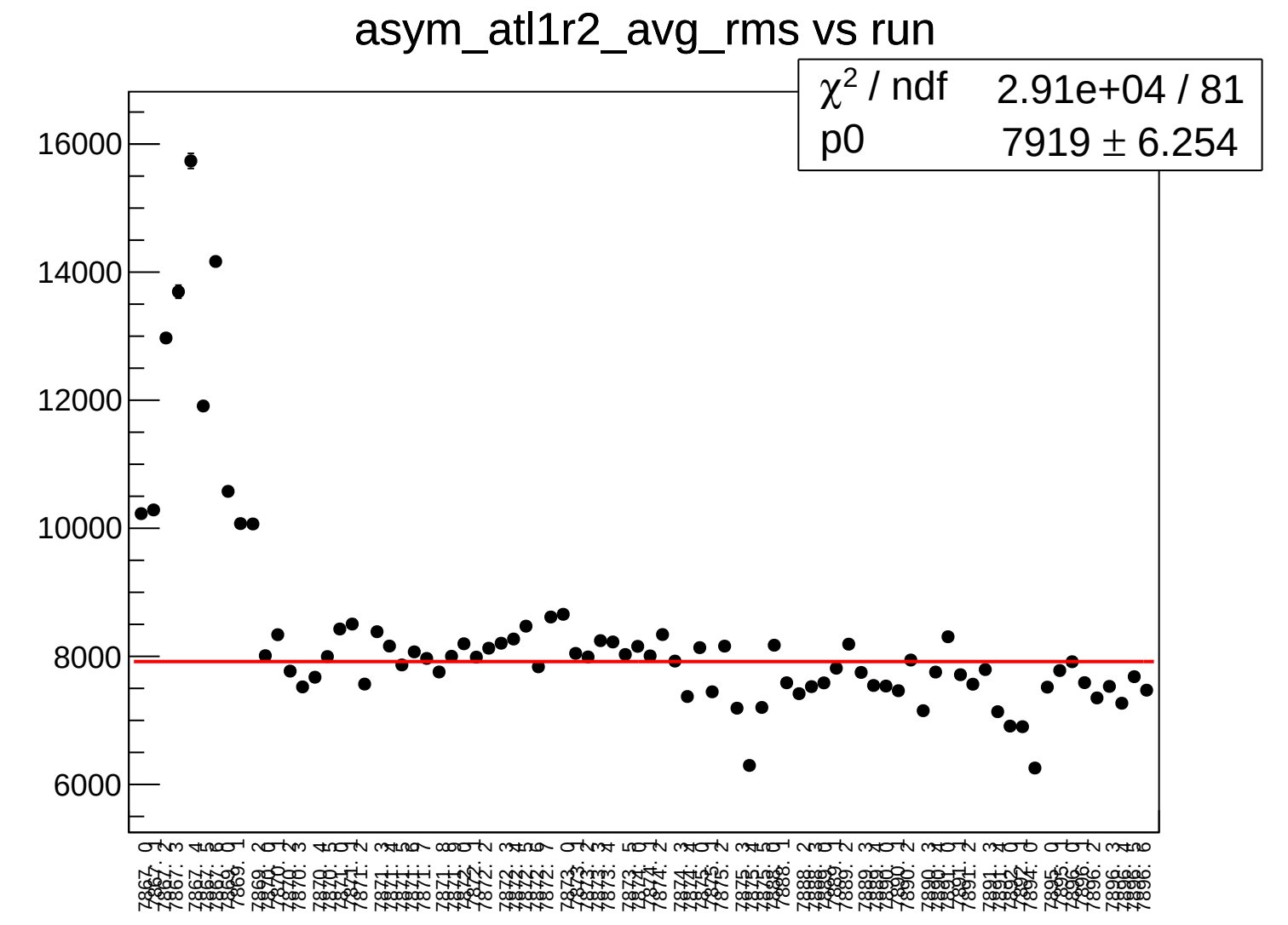

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 65.58 / 81
p0 3923 ± 8534
pull
Entries 82
Mean −122
Std Dev 0

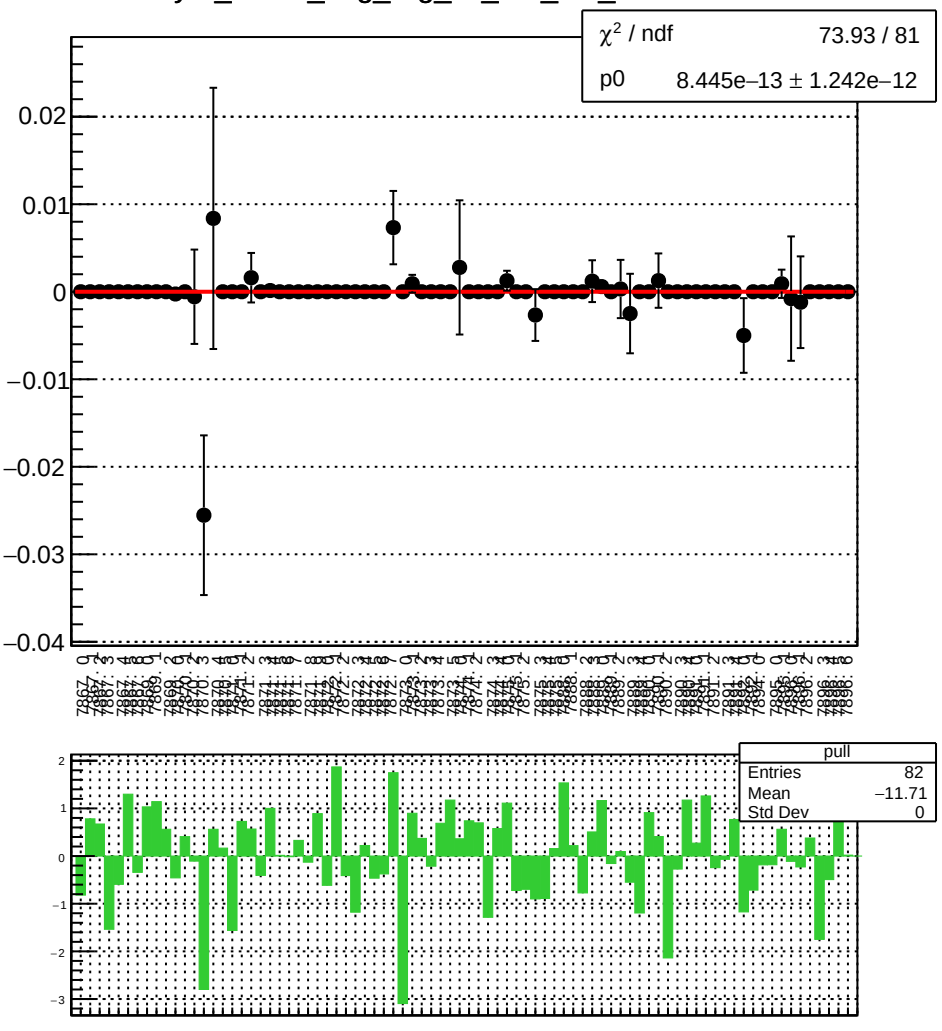

pull1D
Entries 82
Mean 0.01479
Std Dev 0.8942

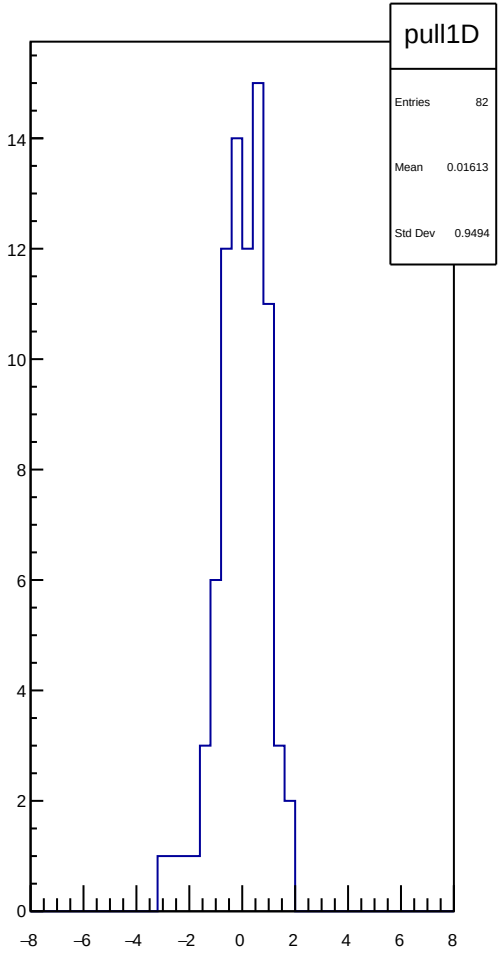

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 81
p0 7643 ± 6.034
16000
14000
12000
10000
8000
6000

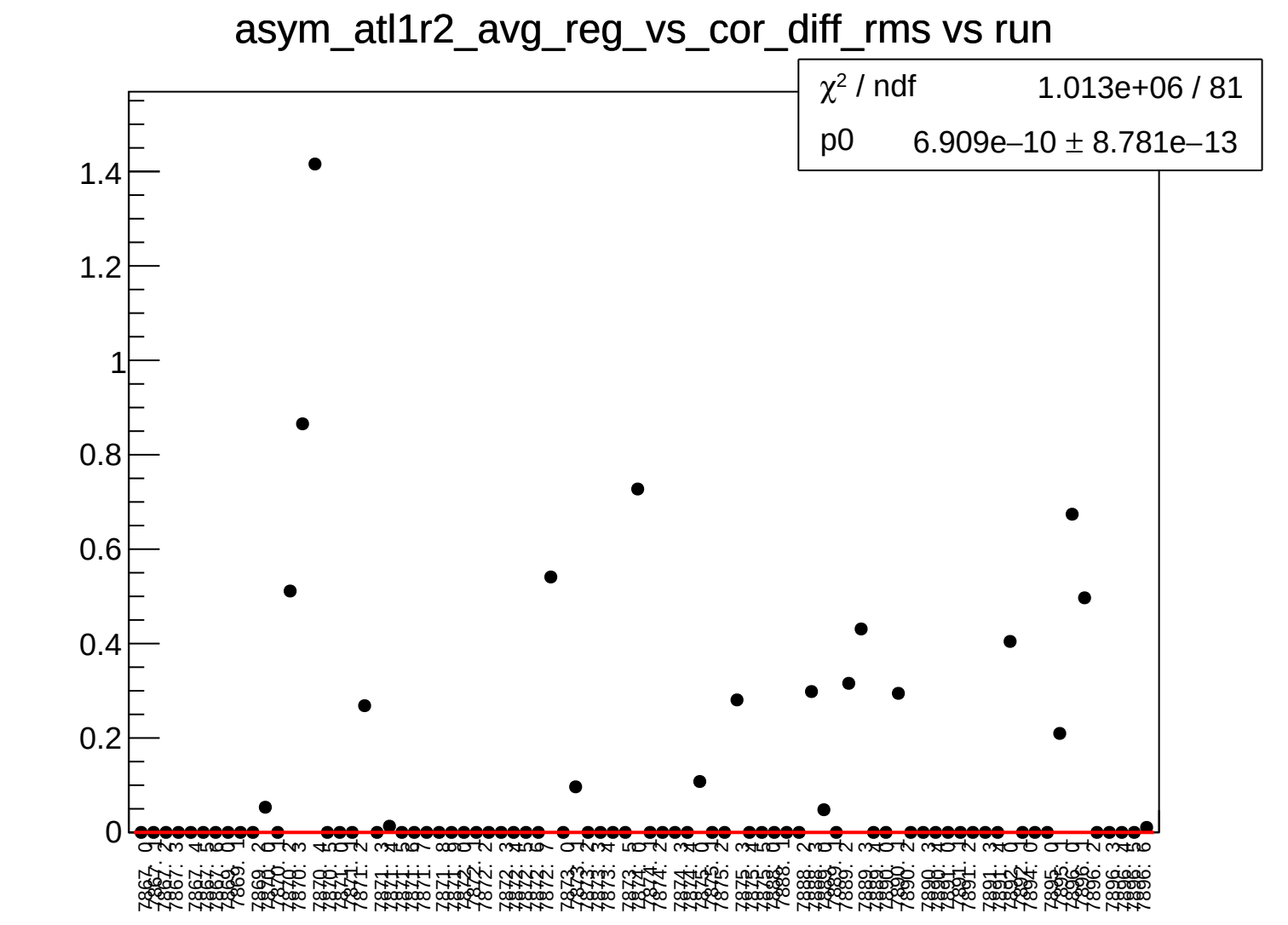

asym_atl1r2_avg_mean vs run
χ² / ndf 64.43 / 81
p0 −3200 ± 8845
×10³
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −160.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

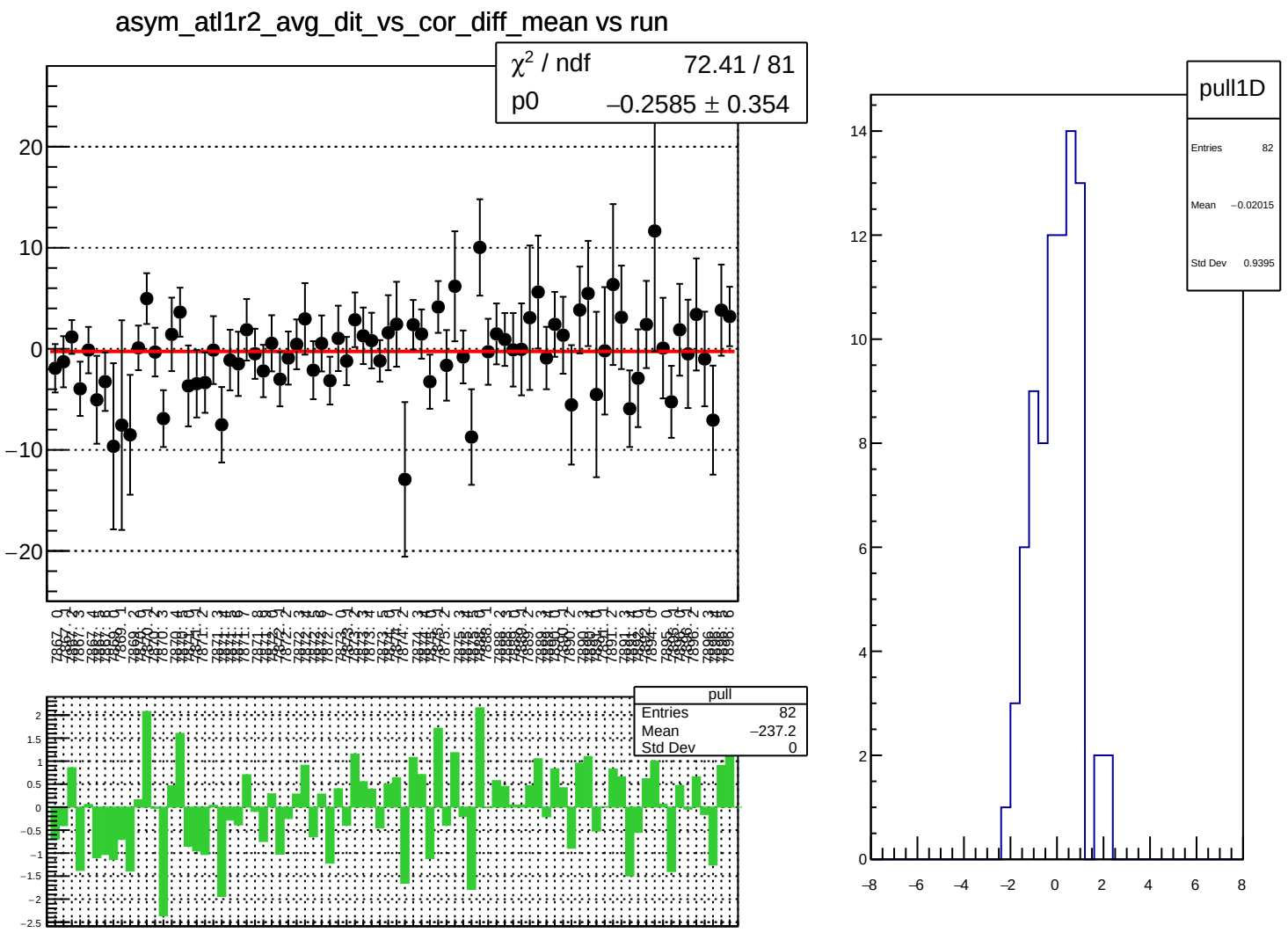

pull1D
Entries 82
Mean −0.01631
Std Dev 0.8863
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

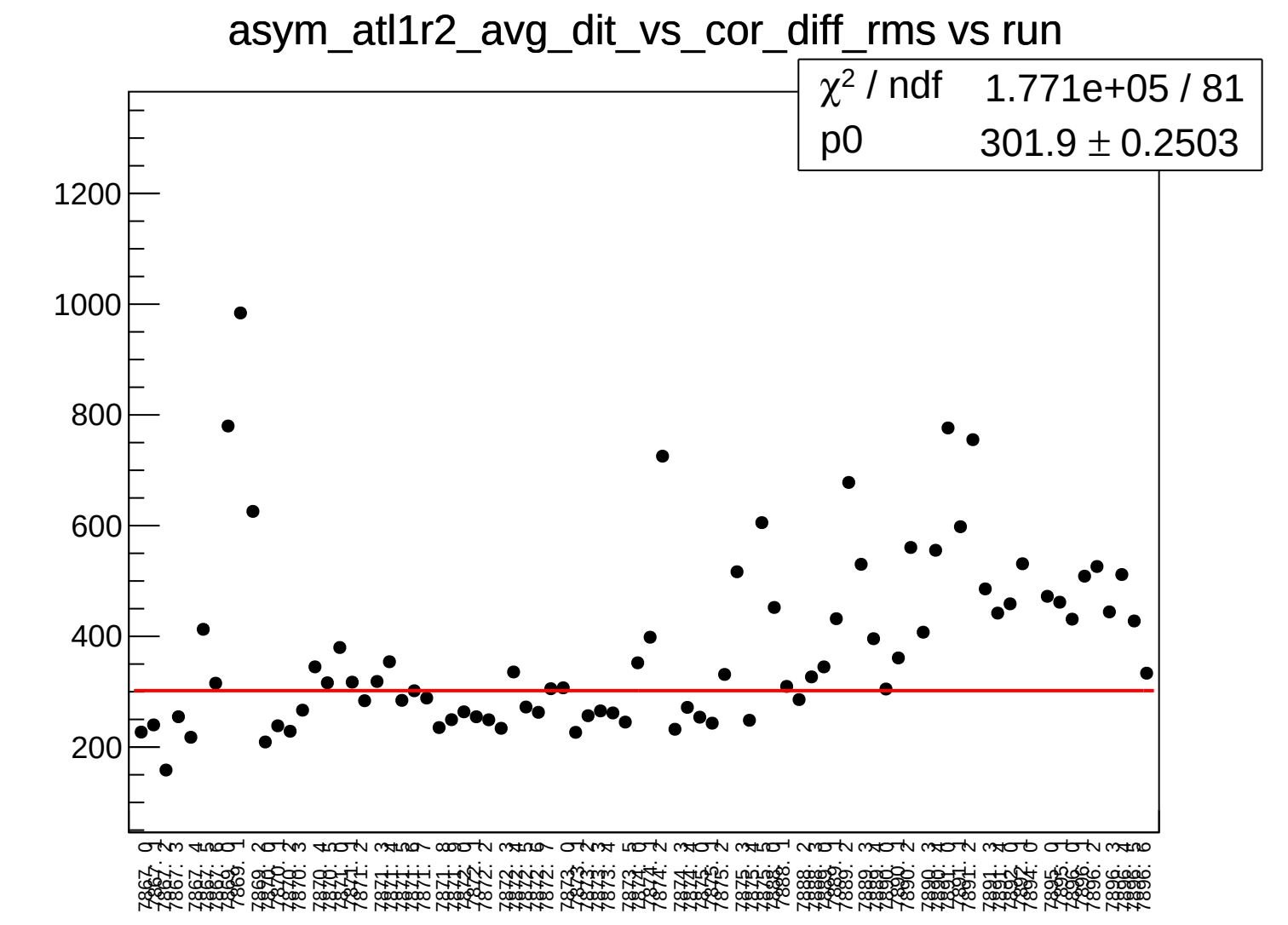

asym_atl1r2_avg_rms vs run
χ² / ndf 2.91e+04 / 81
p0 7919 ± 6.254
16000
14000
12000
10000
8000
6000

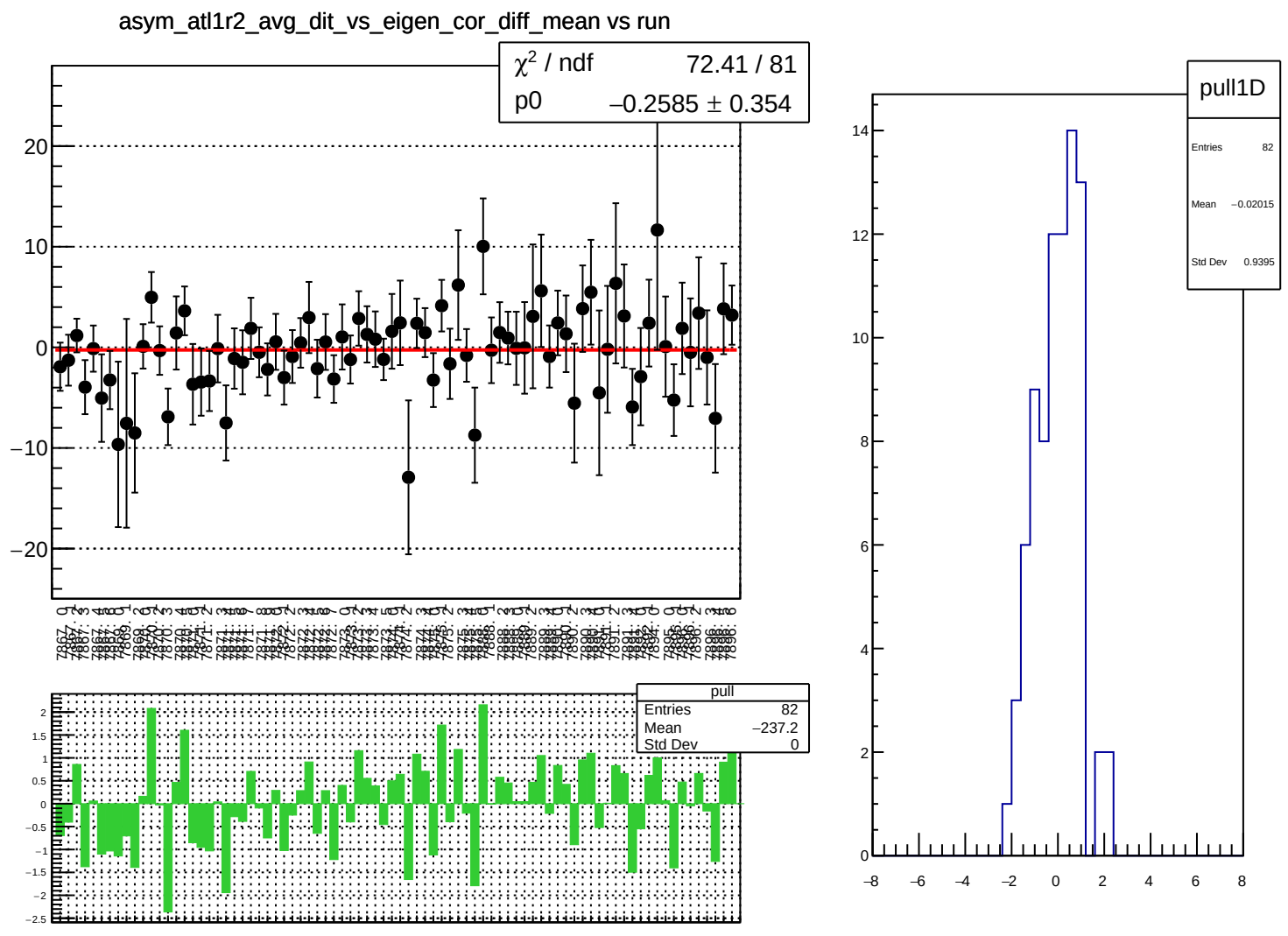

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.93 / 81
p0 8.445e−13 ± 1.242e−12
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 82
Mean −11.71
Std Dev 0
2
1
0
−1
−2
−3

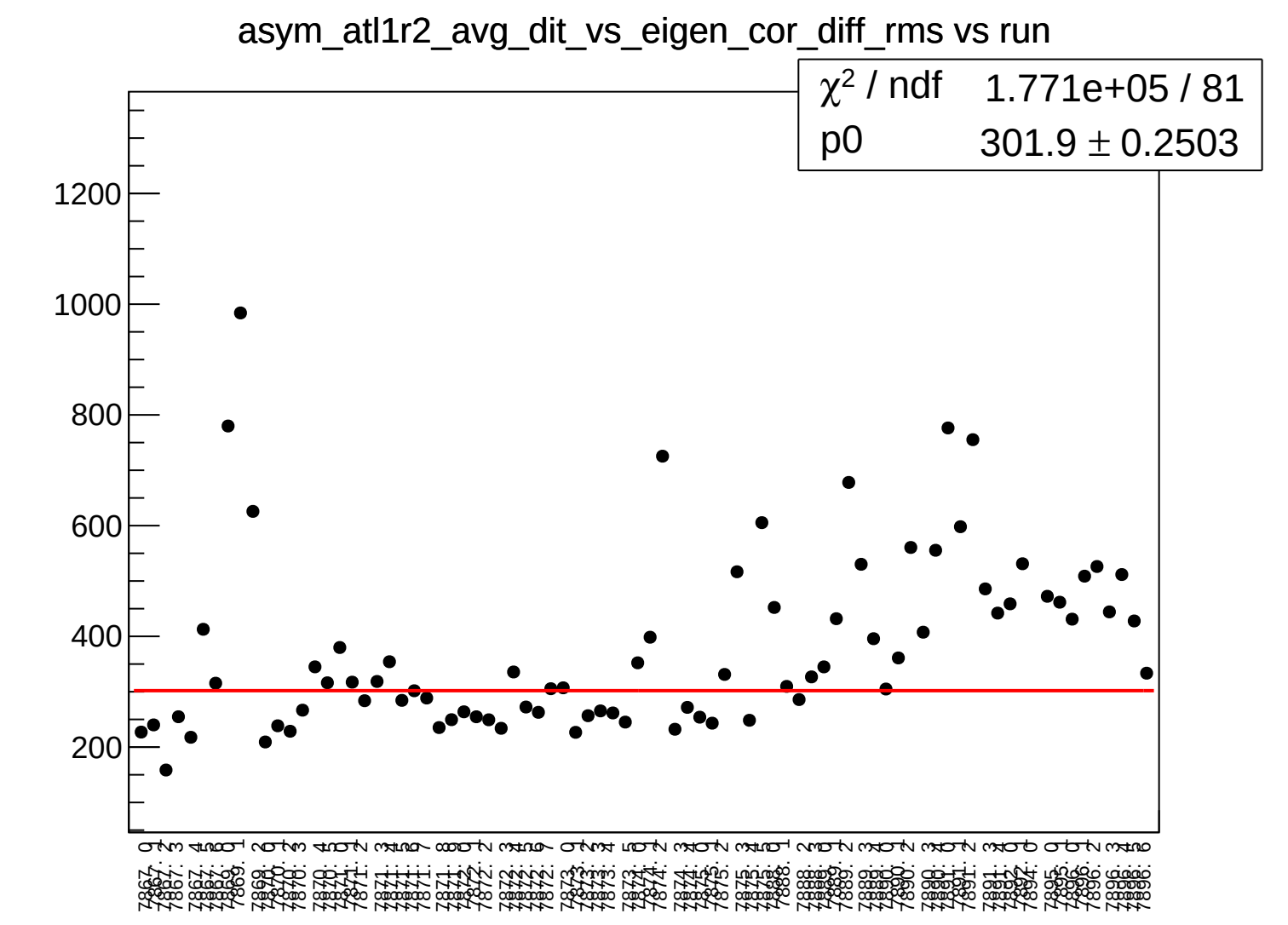

pull1D
Entries 82
Mean 0.01613
Std Dev 0.9494
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

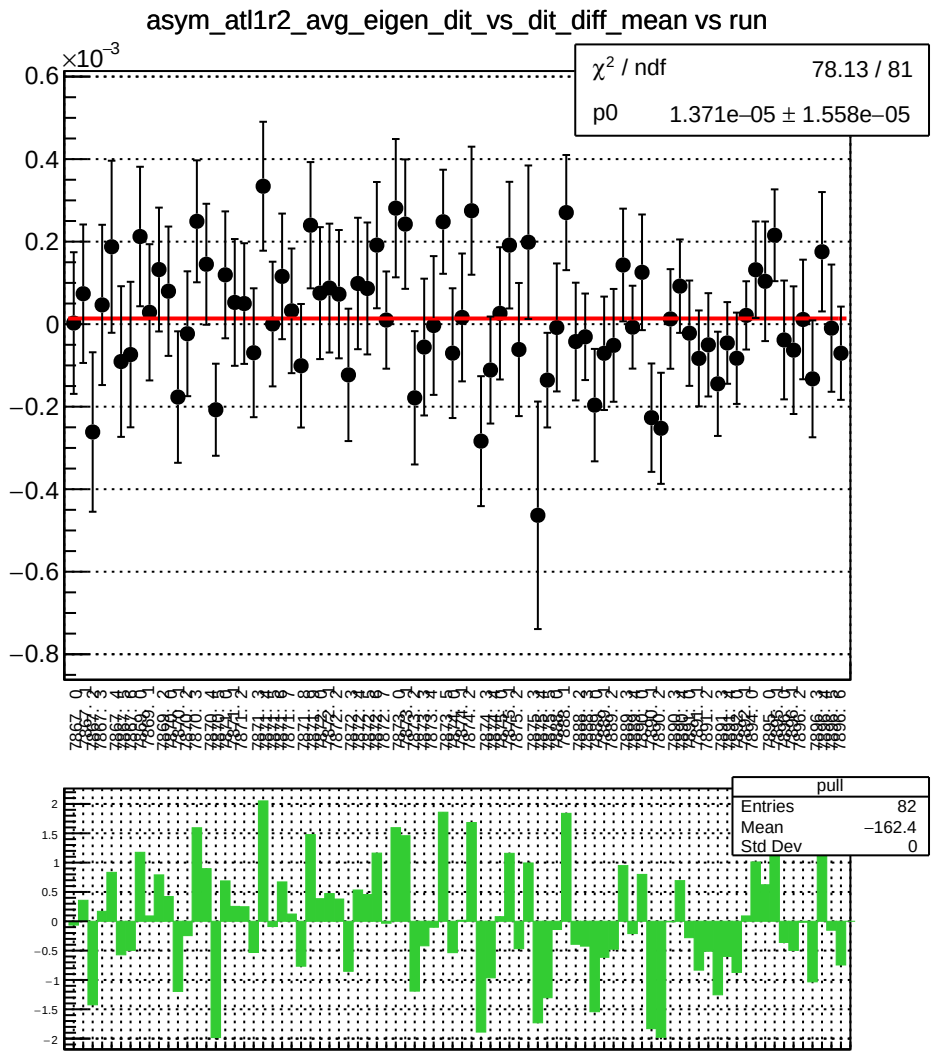

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.013e+06 / 81
p0 6.909e−10 ± 8.781e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

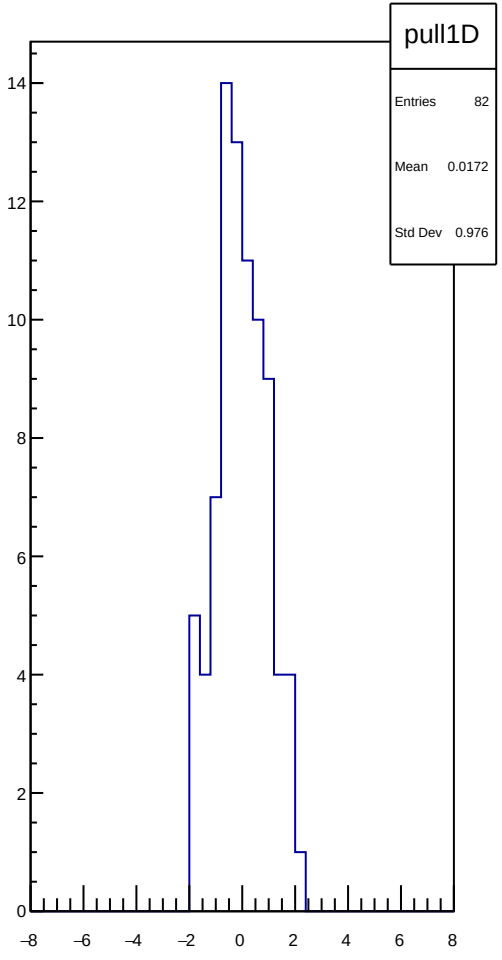

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.41 / 81
p0 −0.2585 ± 0.354
pull
Entries 82
Mean −237.2
Std Dev 0
pull1D
Entries 82
Mean −0.02015
Std Dev 0.9395

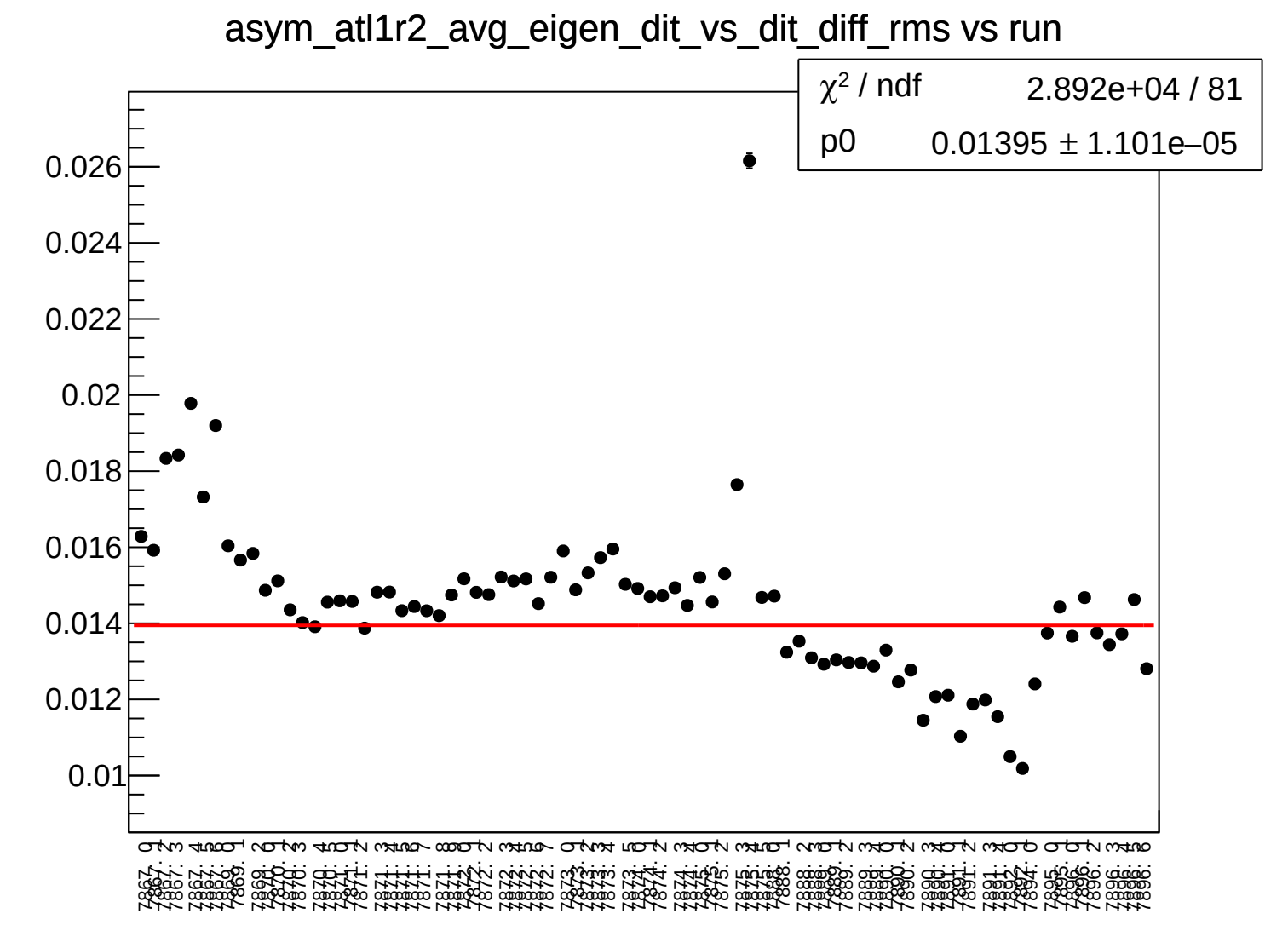

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.771e+05 / 81
p0 301.9 ± 0.2503
1200
1000
800
600
400
200

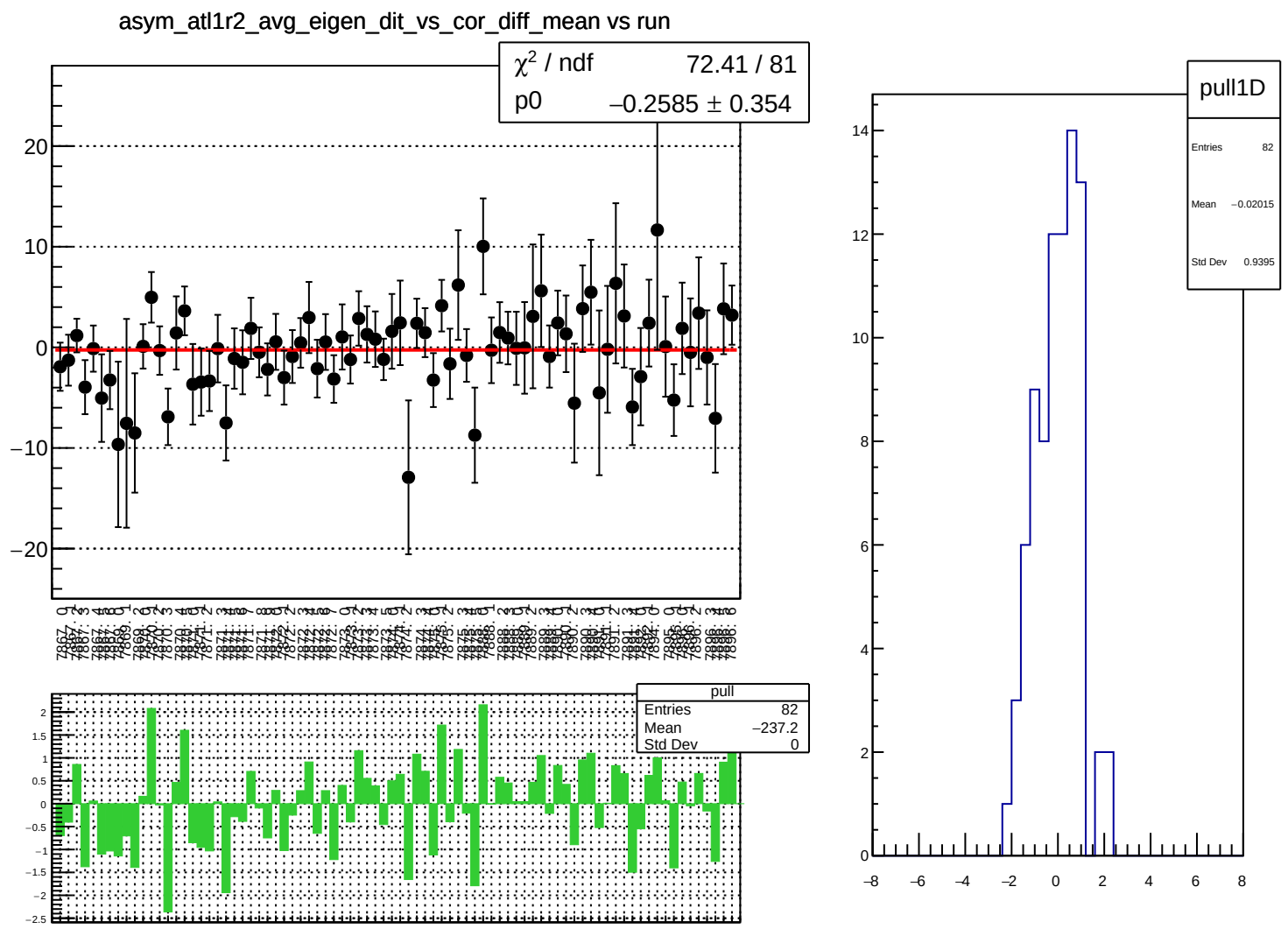

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.41 / 81
p0 −0.2585 ± 0.354
pull
Entries 82
Mean −237.2
Std Dev 0
pull1D
Entries 82
Mean −0.02015
Std Dev 0.9395

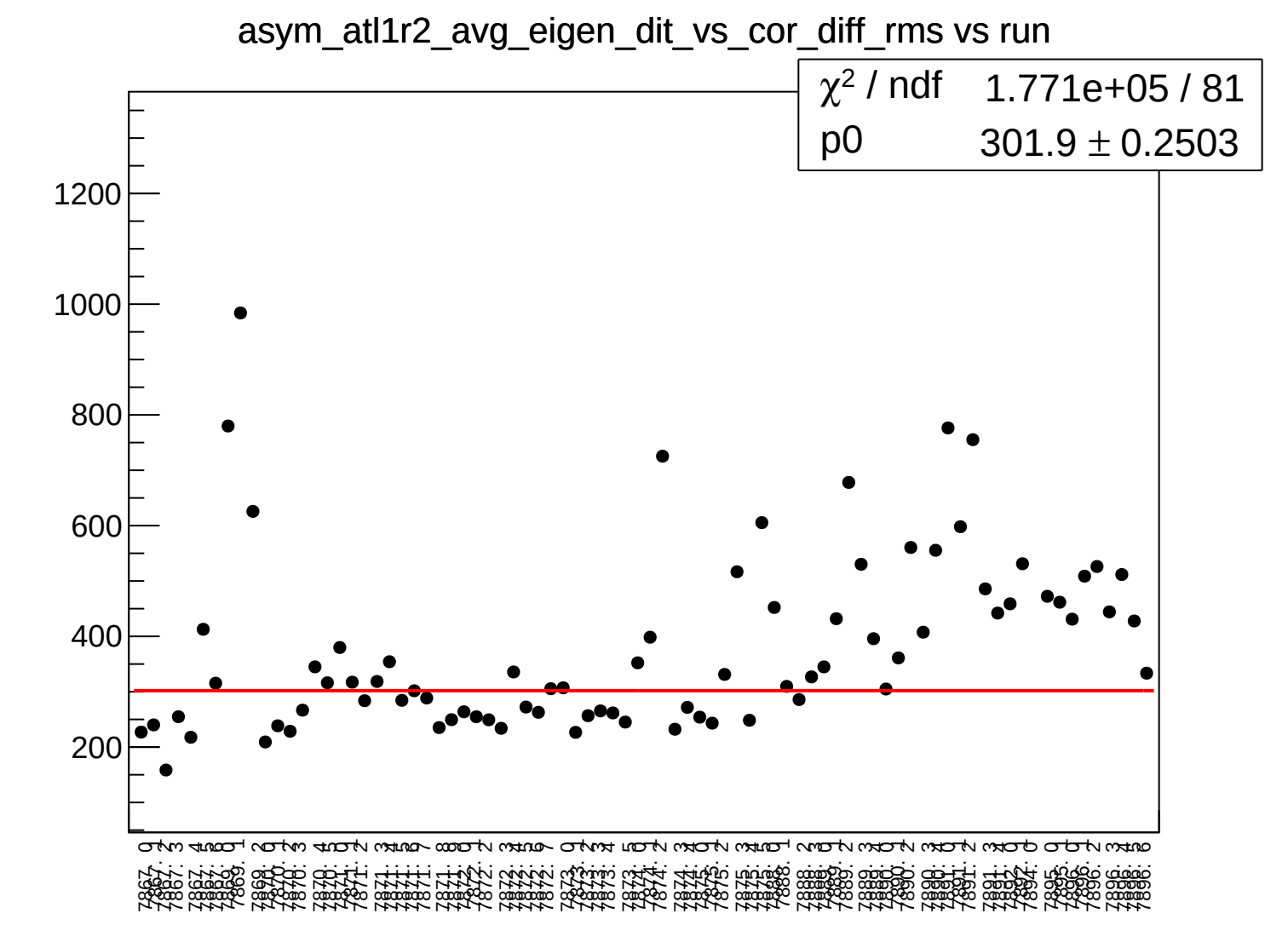

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.771e+05 / 81
p0 301.9 ± 0.2503
1200
1000
800
600
400
200

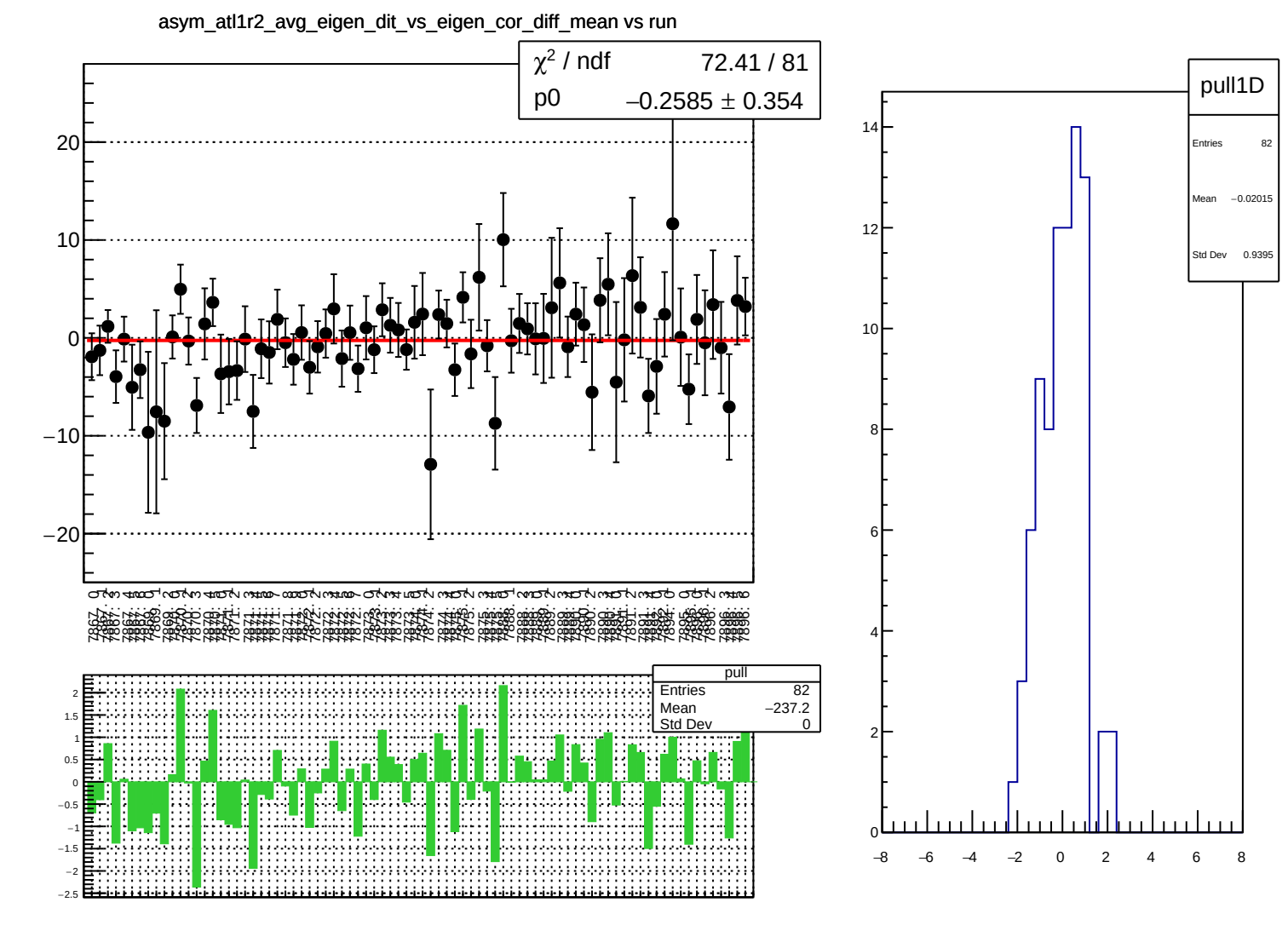

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.13 / 81
p0 1.371e−05 ± 1.558e−05
pull
Entries 82
Mean −162.4
Std Dev 0

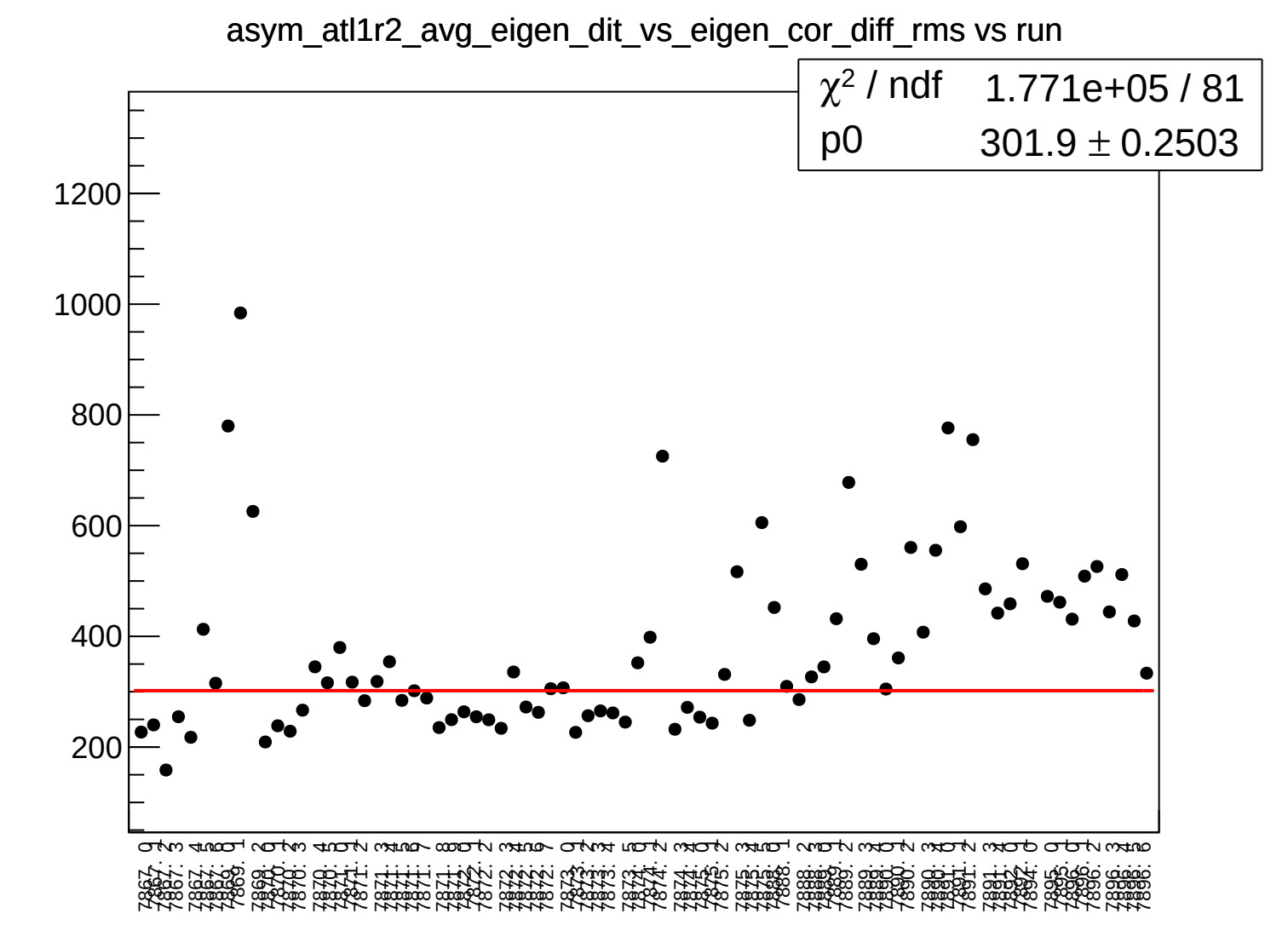

pull1D
Entries 82
Mean 0.0172
Std Dev 0.976

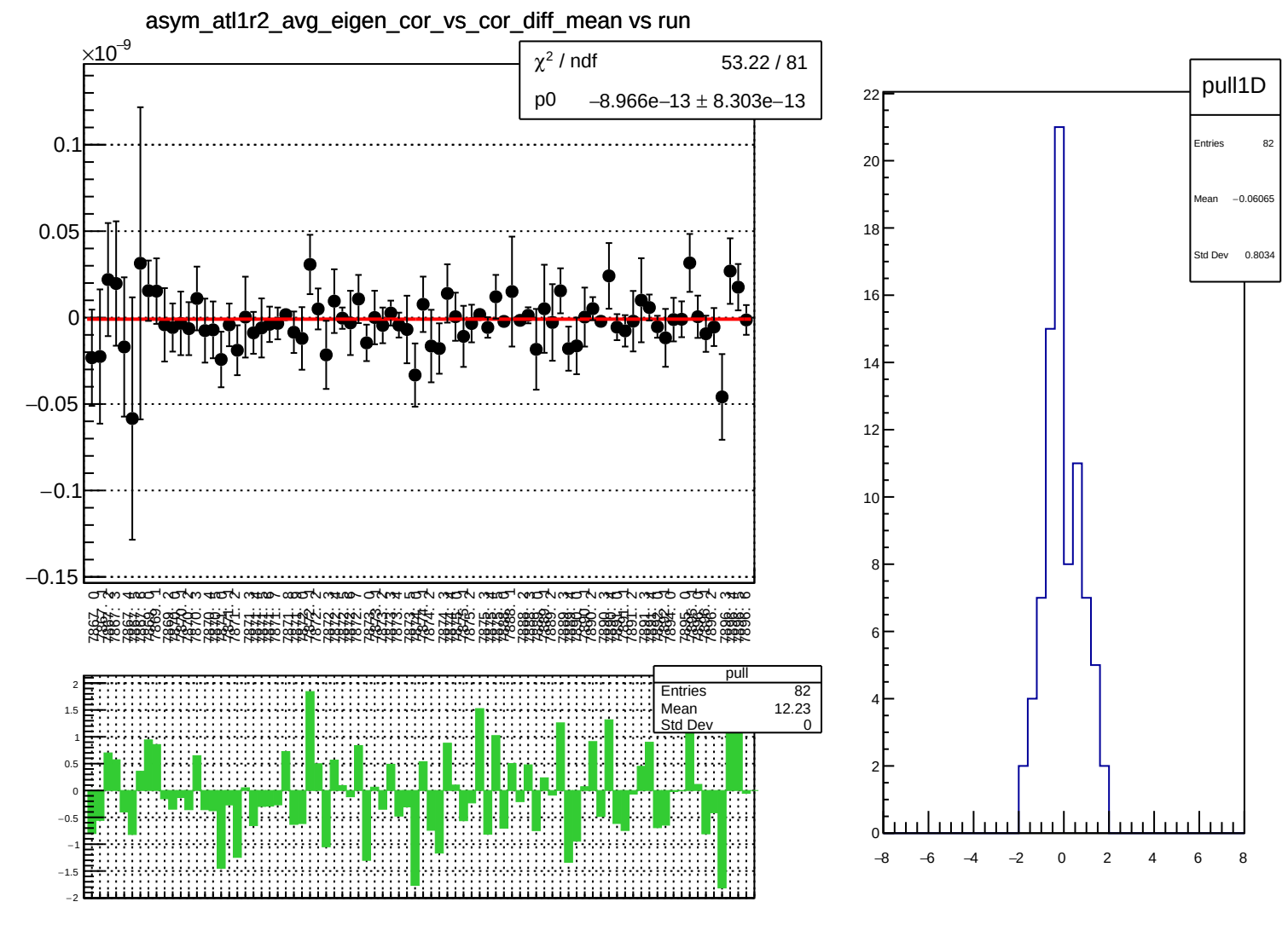

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.892e+04 / 81
p0 0.01395 ± 1.101e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

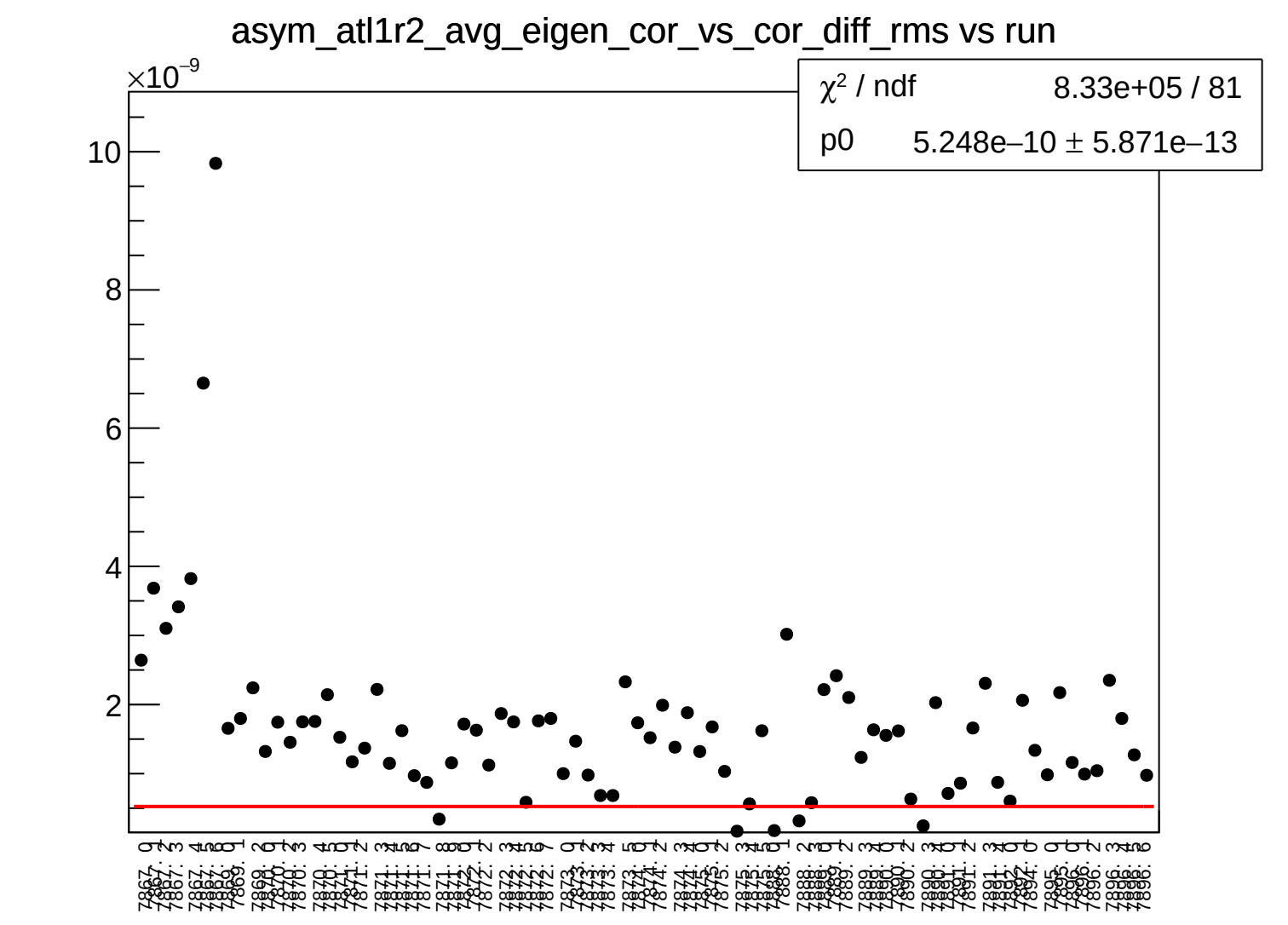

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.41 / 81
p0 −0.2585 ± 0.354
pull
Entries 82
Mean −237.2
Std Dev 0
pull1D
Entries 82
Mean −0.02015
Std Dev 0.9395

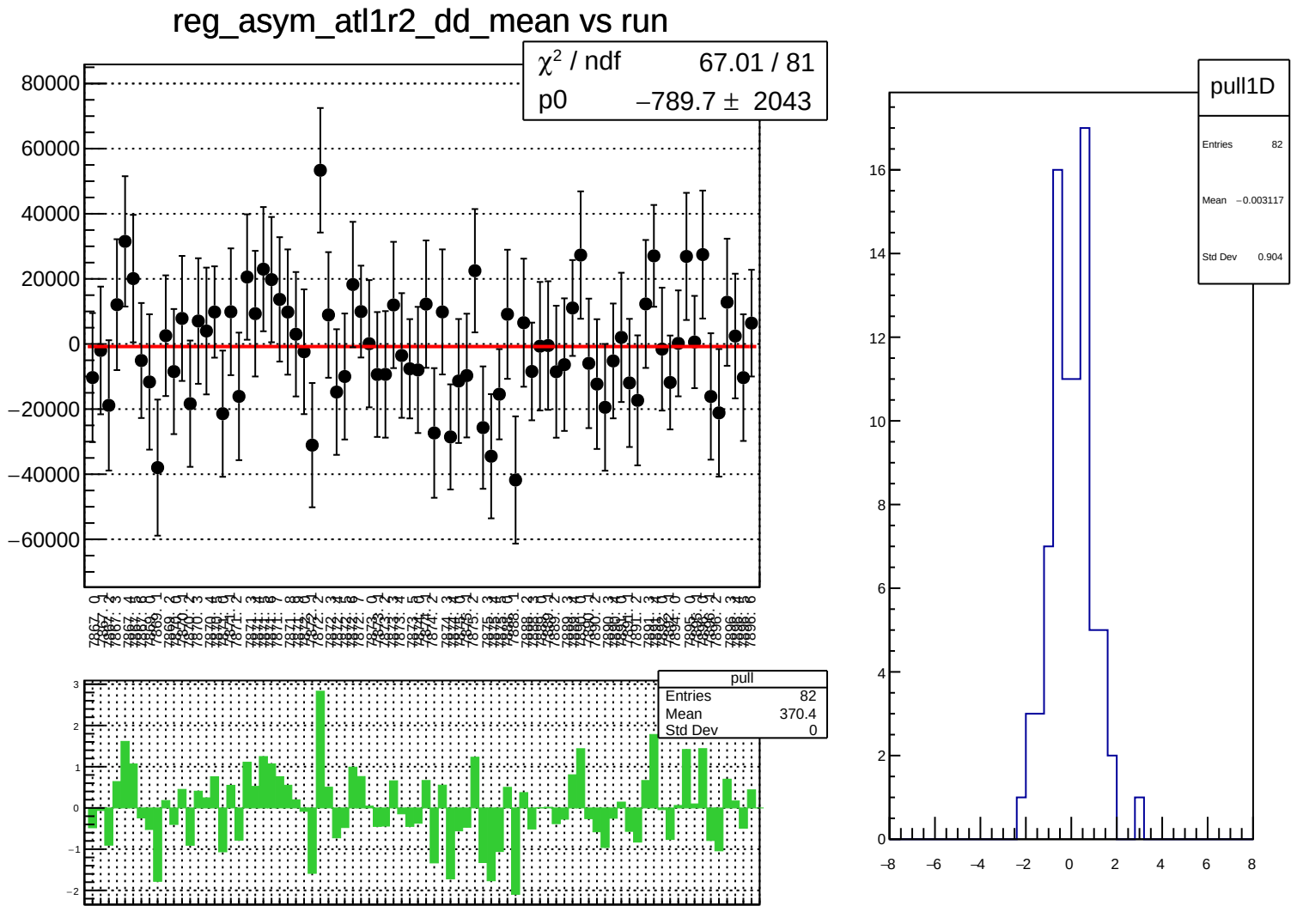

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.771e+05 / 81
p0 301.9 ± 0.2503
1200
1000
800
600
400
200

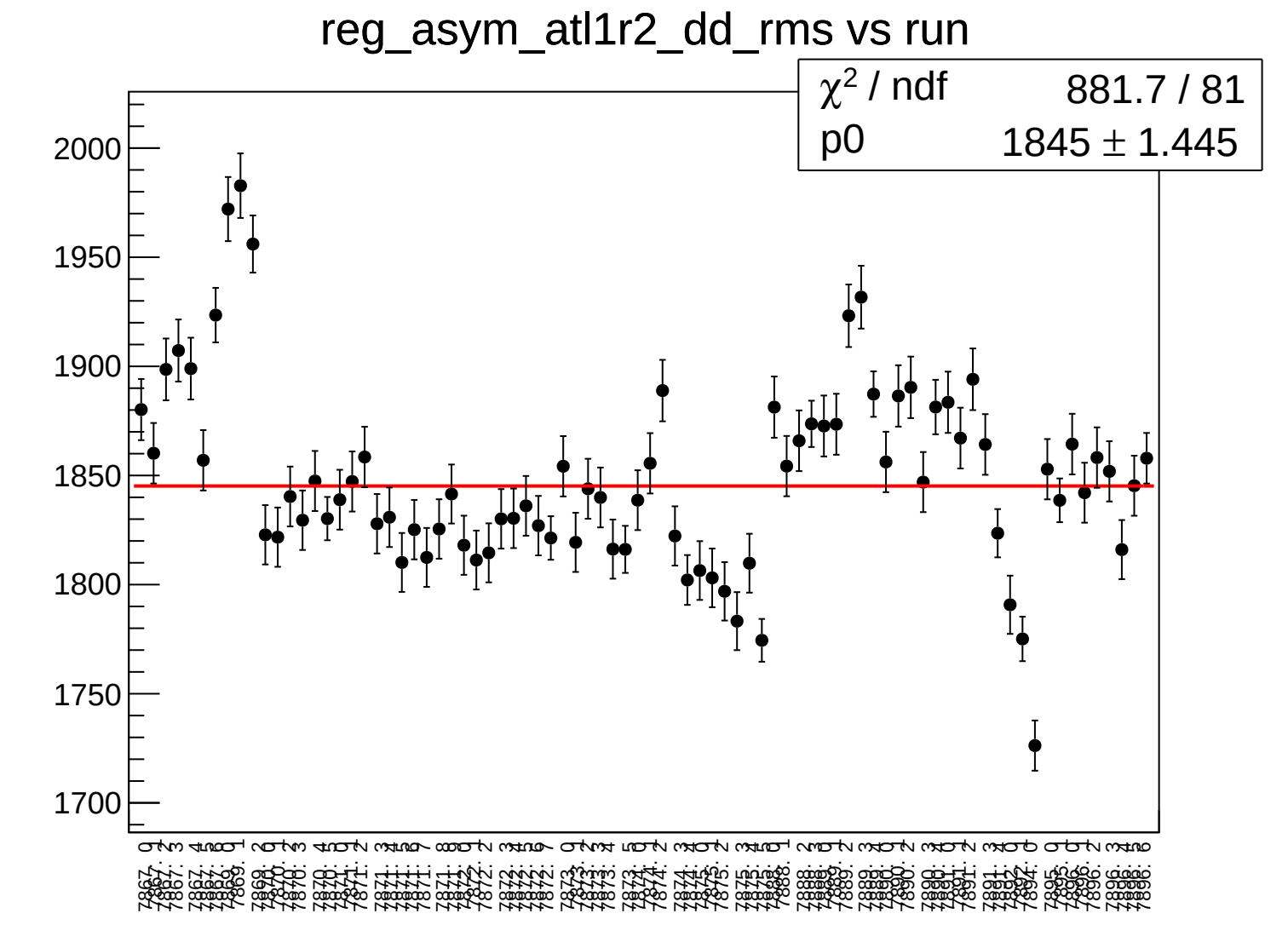

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.41 / 81
p0 −0.2585 ± 0.354
pull
Entries 82
Mean −237.2
Std Dev 0
pull1D
Entries 82
Mean −0.02015
Std Dev 0.9395

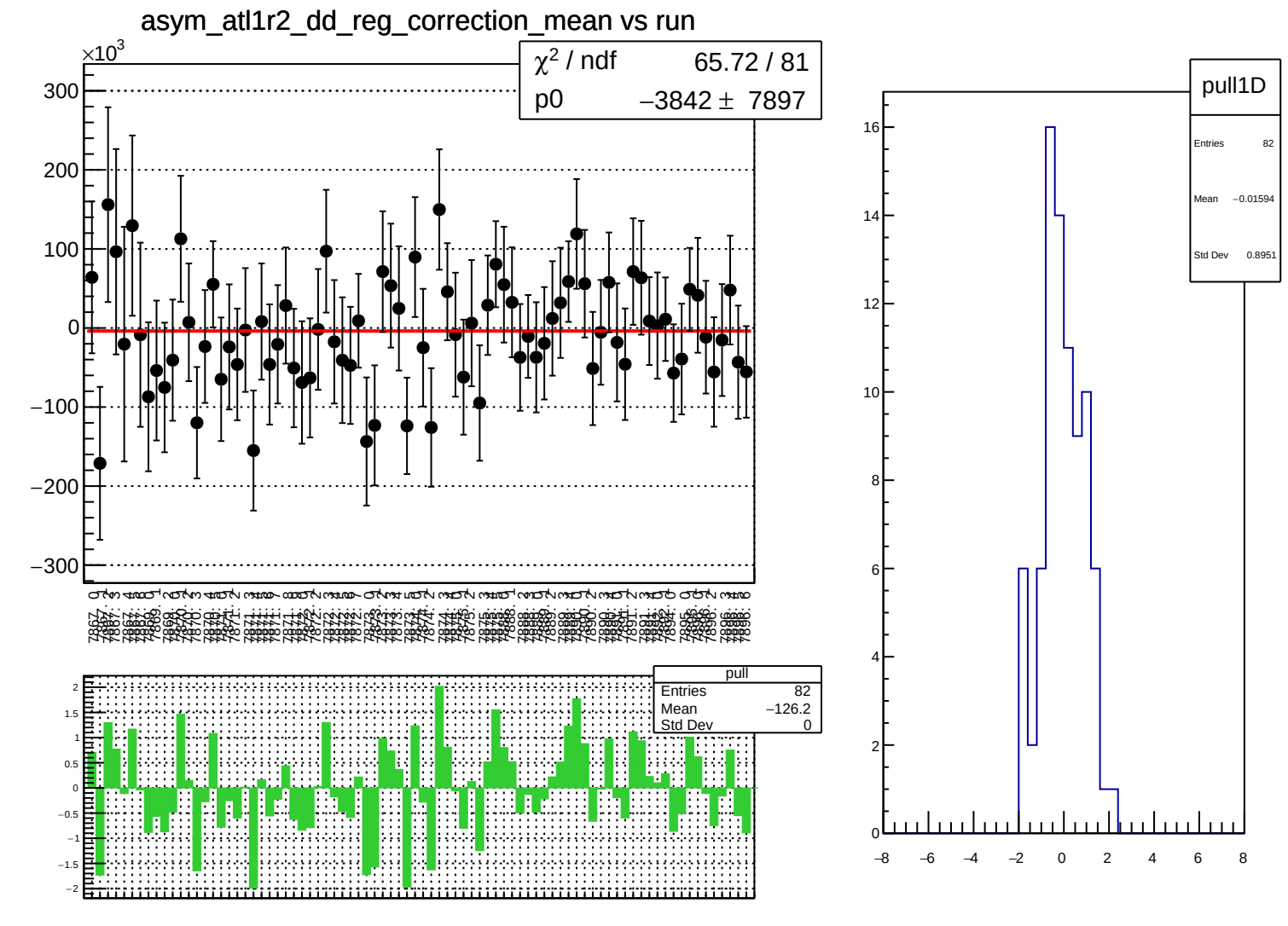

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.771e+05 / 81
p0 301.9 ± 0.2503
1200
1000
800
600
400
200

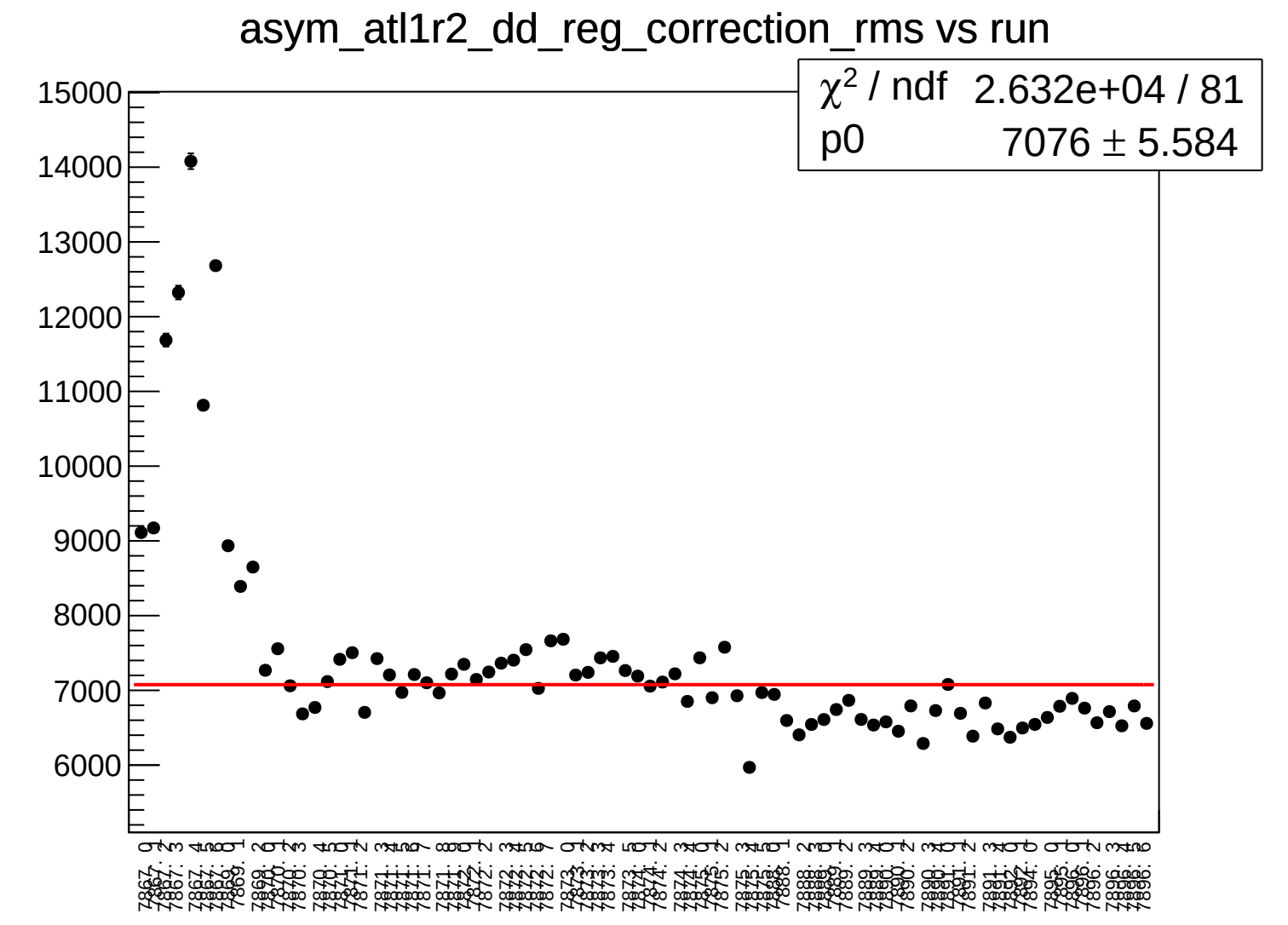

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 53.22 / 81
p0 −8.966e−13 ± 8.303e−13
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean 12.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.06065
Std Dev 0.8034
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

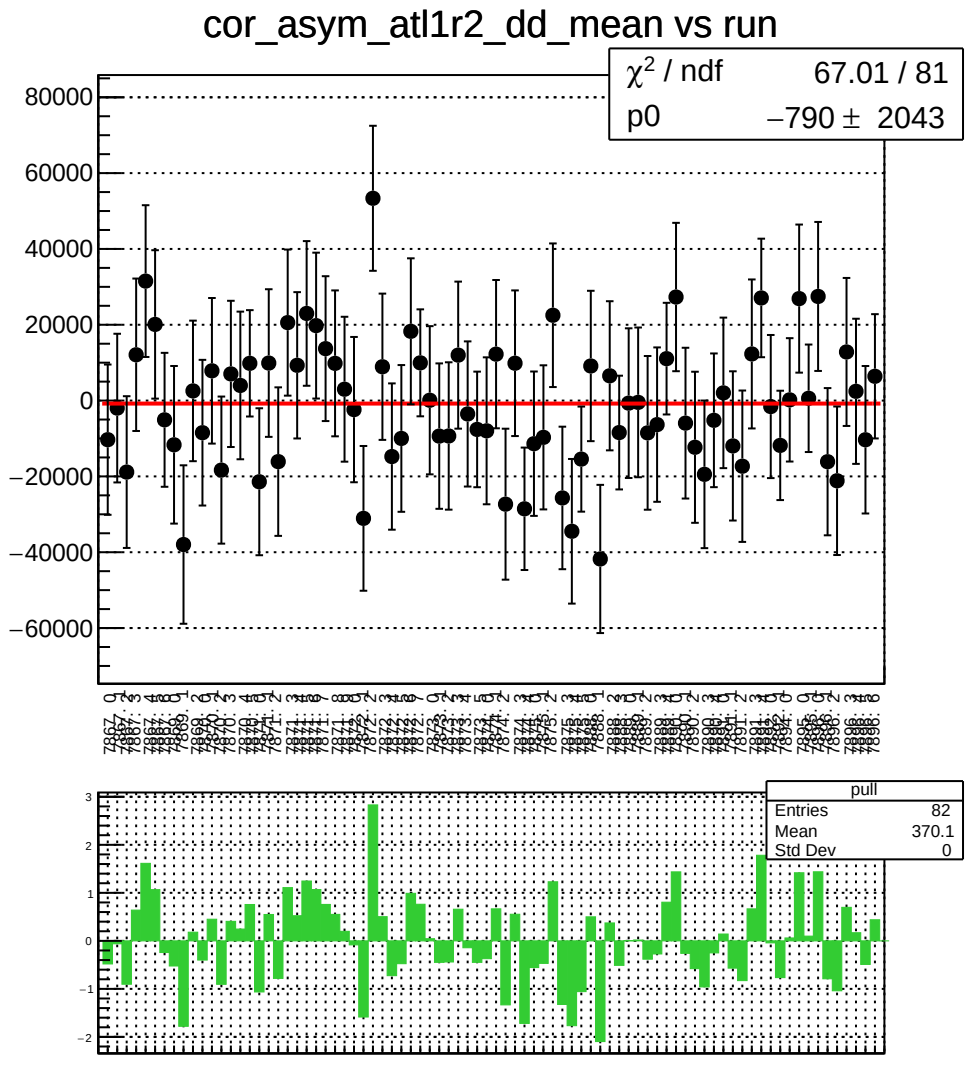

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.33e+05 / 81
p0 5.248e−10 ± 5.871e−13
10
8
6
4
2

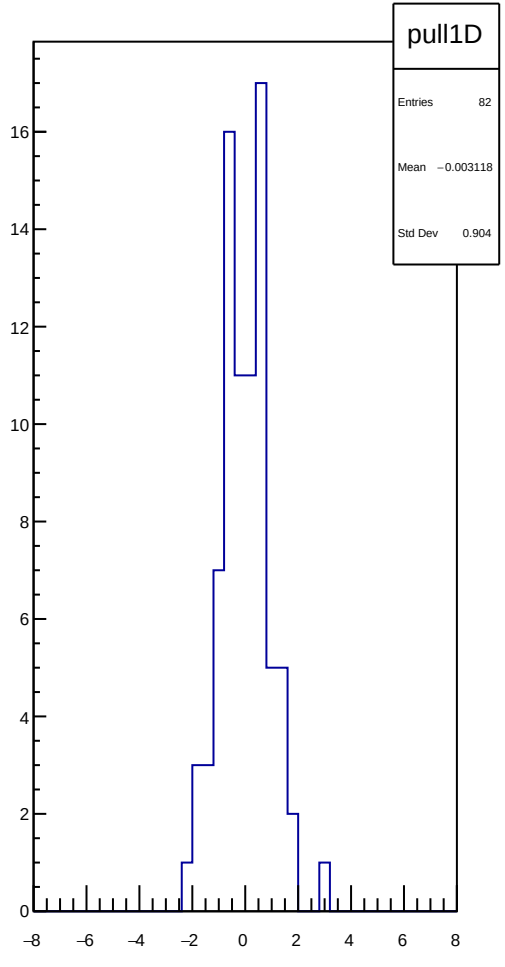

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 67.01 / 81
p0 −789.7 ± 2043
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 370.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.003117
Std Dev 0.904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

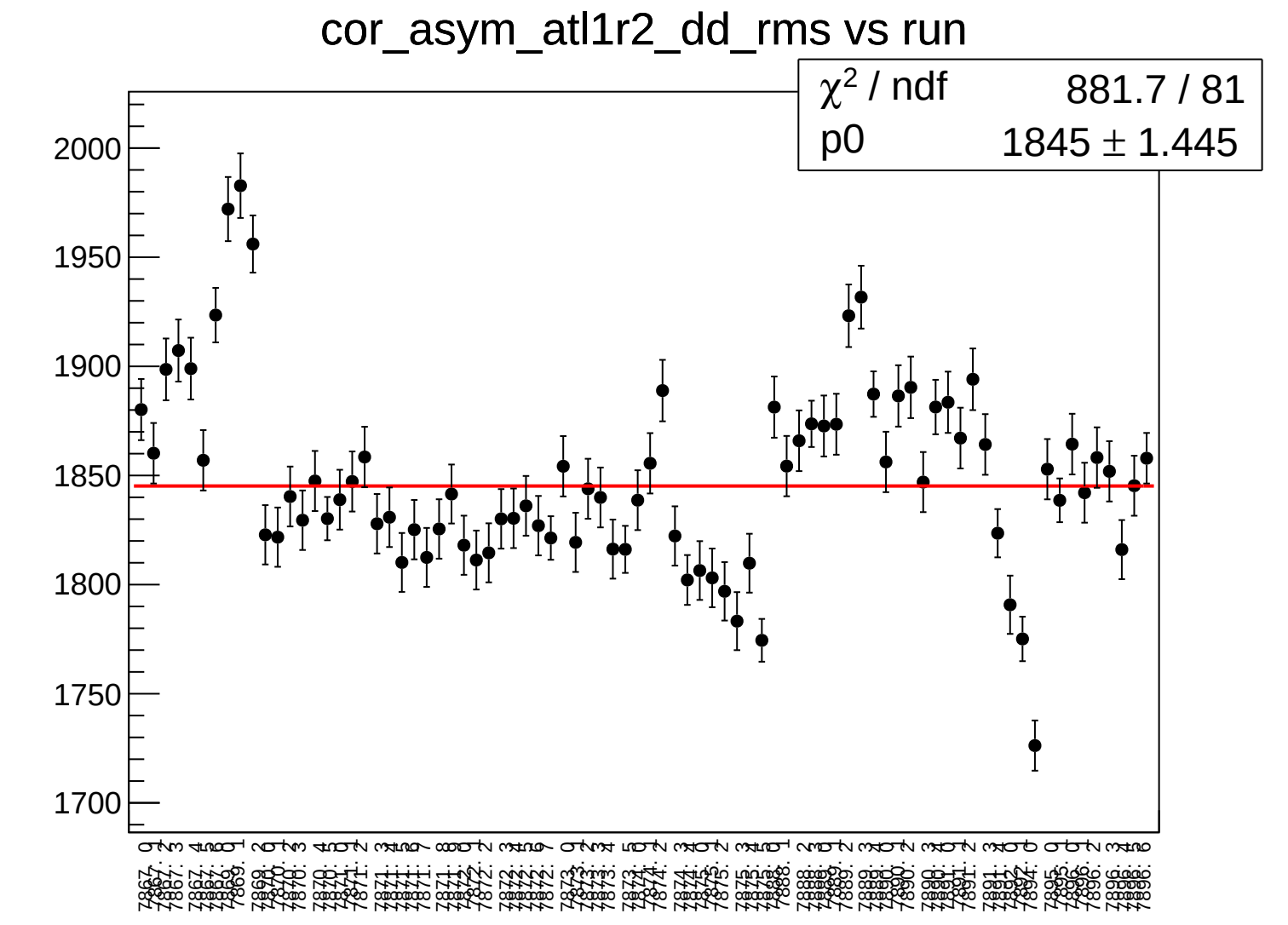

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 881.7 / 81
p0 1845 ± 1.445
2000
1950
1900
1850
1800
1750
1700

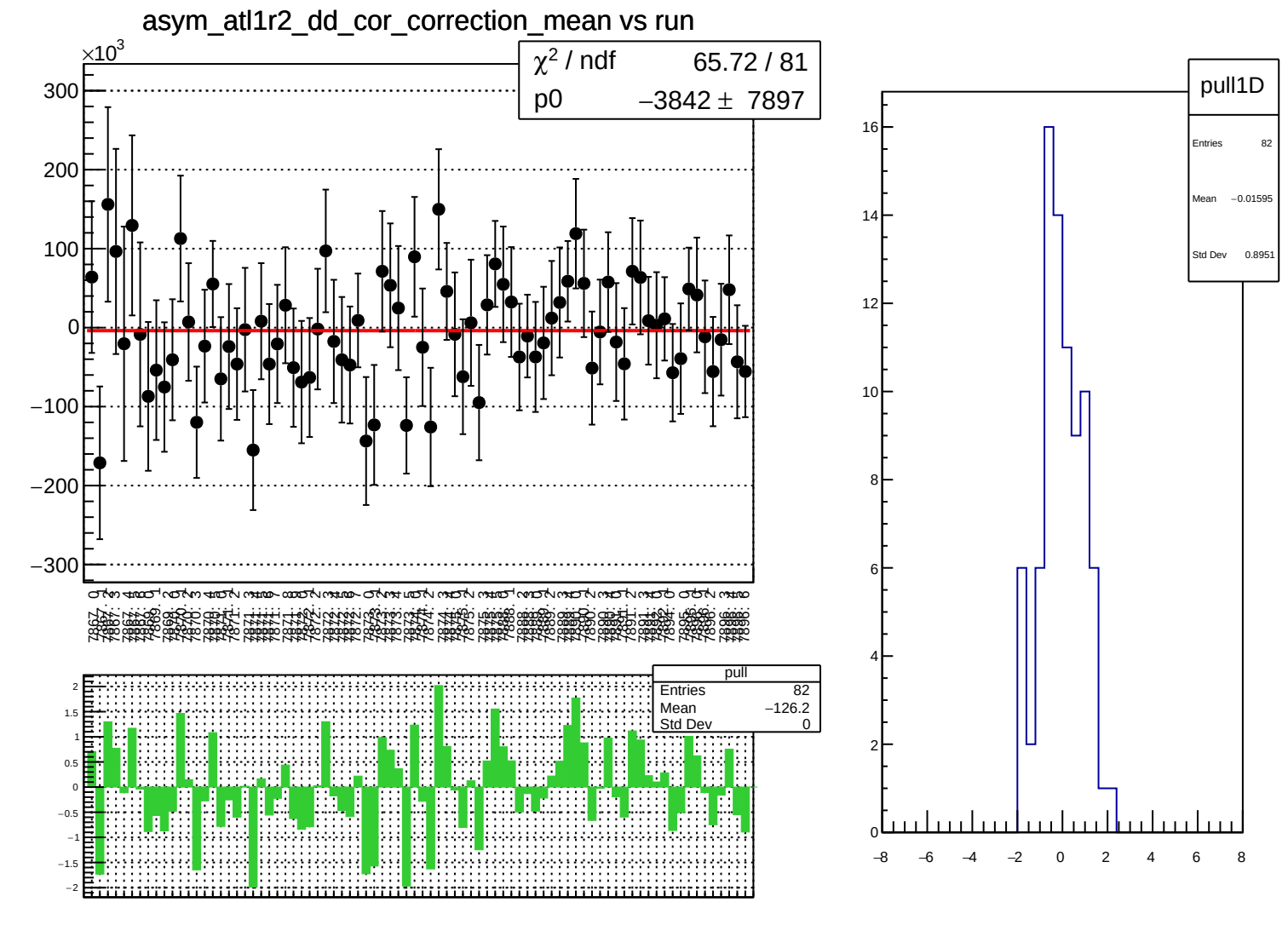

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.72 / 81
p0 −3842 ± 7897
pull
Entries 82
Mean −126.2
Std Dev 0
pull1D
Entries 82
Mean −0.01594
Std Dev 0.8951

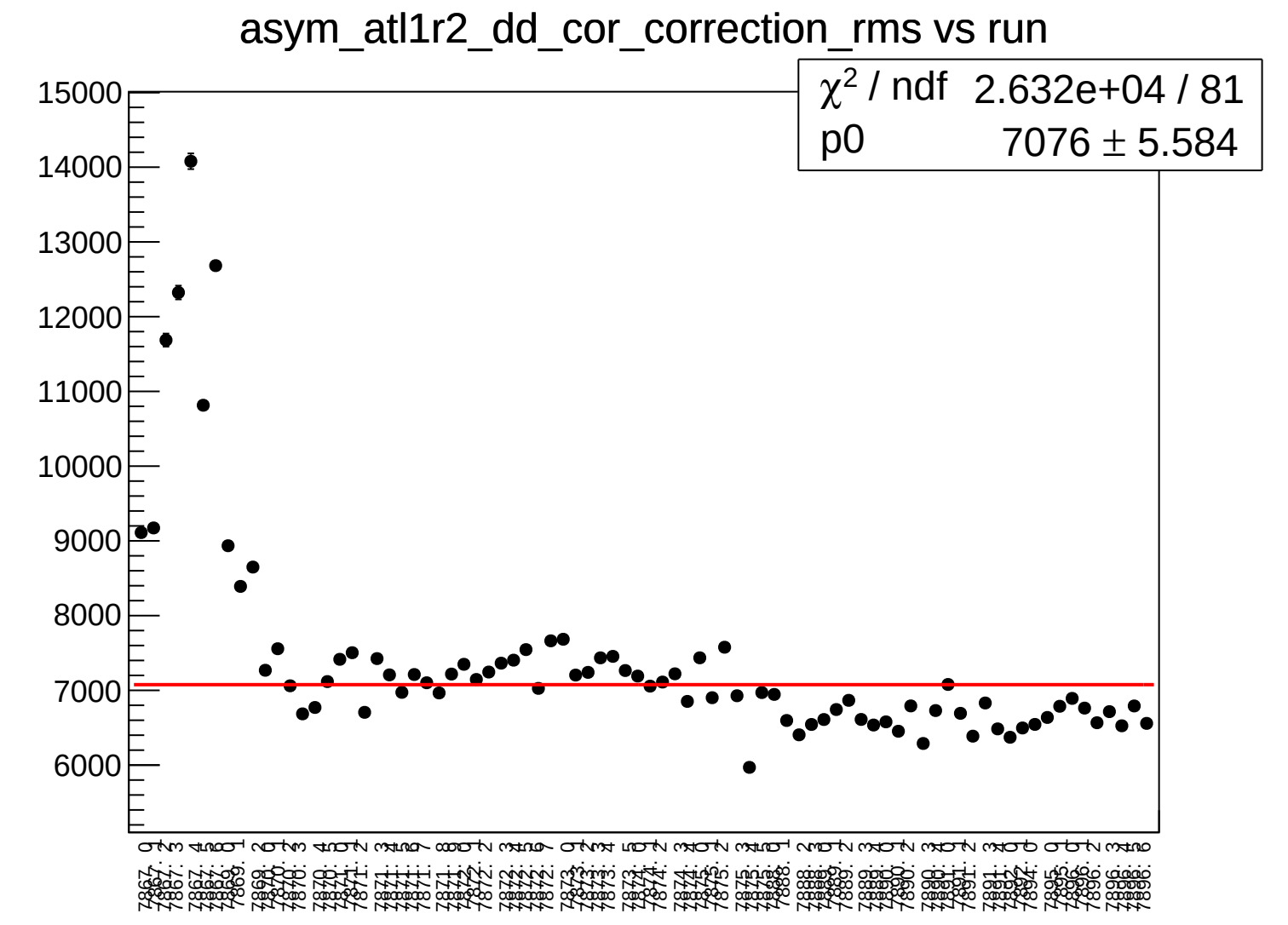

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2.632e+04 / 81
p0 7076 ± 5.584
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000

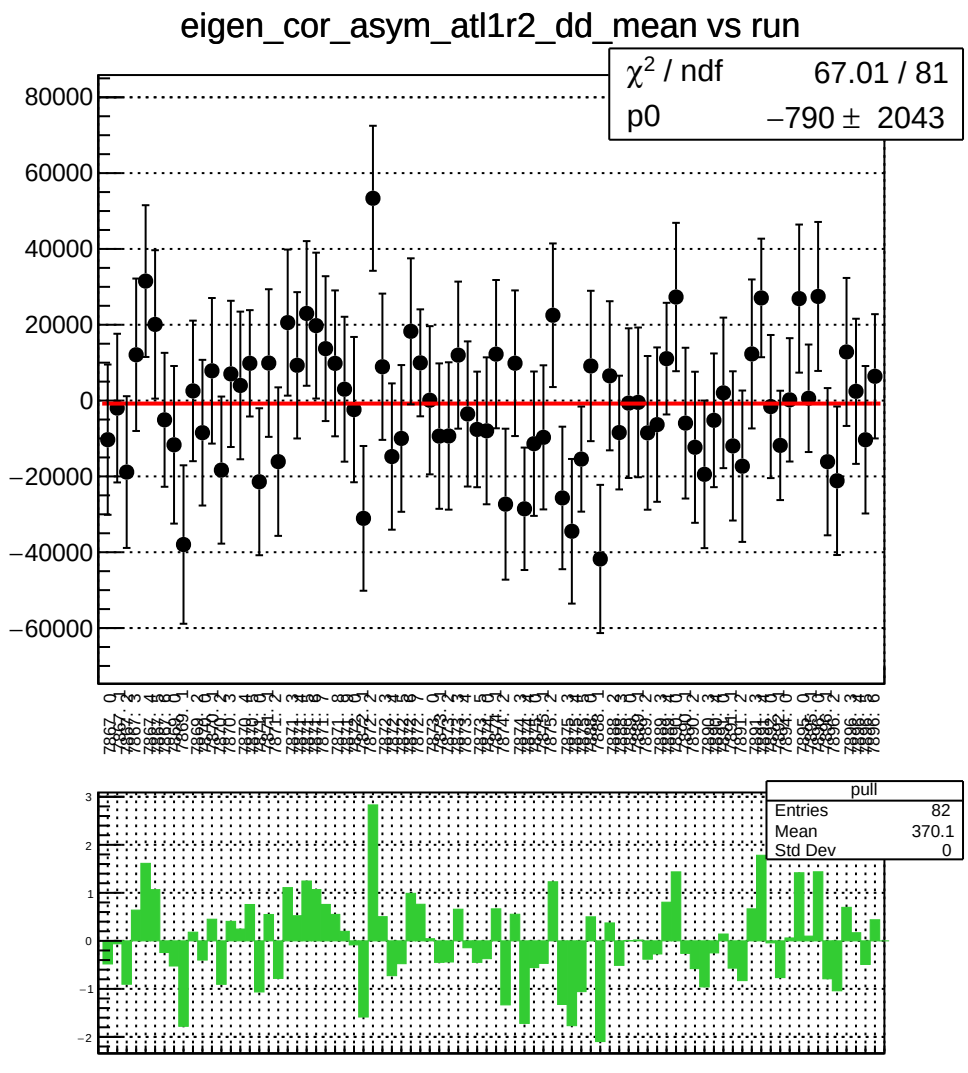

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 67.01 / 81
p0 −790 ± 2043
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 370.1
Std Dev 0
3
2
1
0
−1
−2

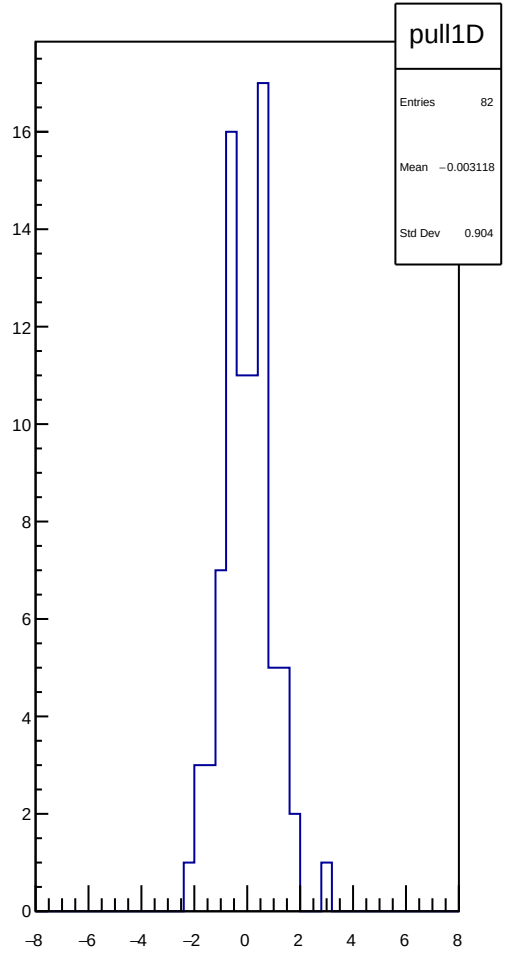

pull1D
Entries 82
Mean −0.003118
Std Dev 0.904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

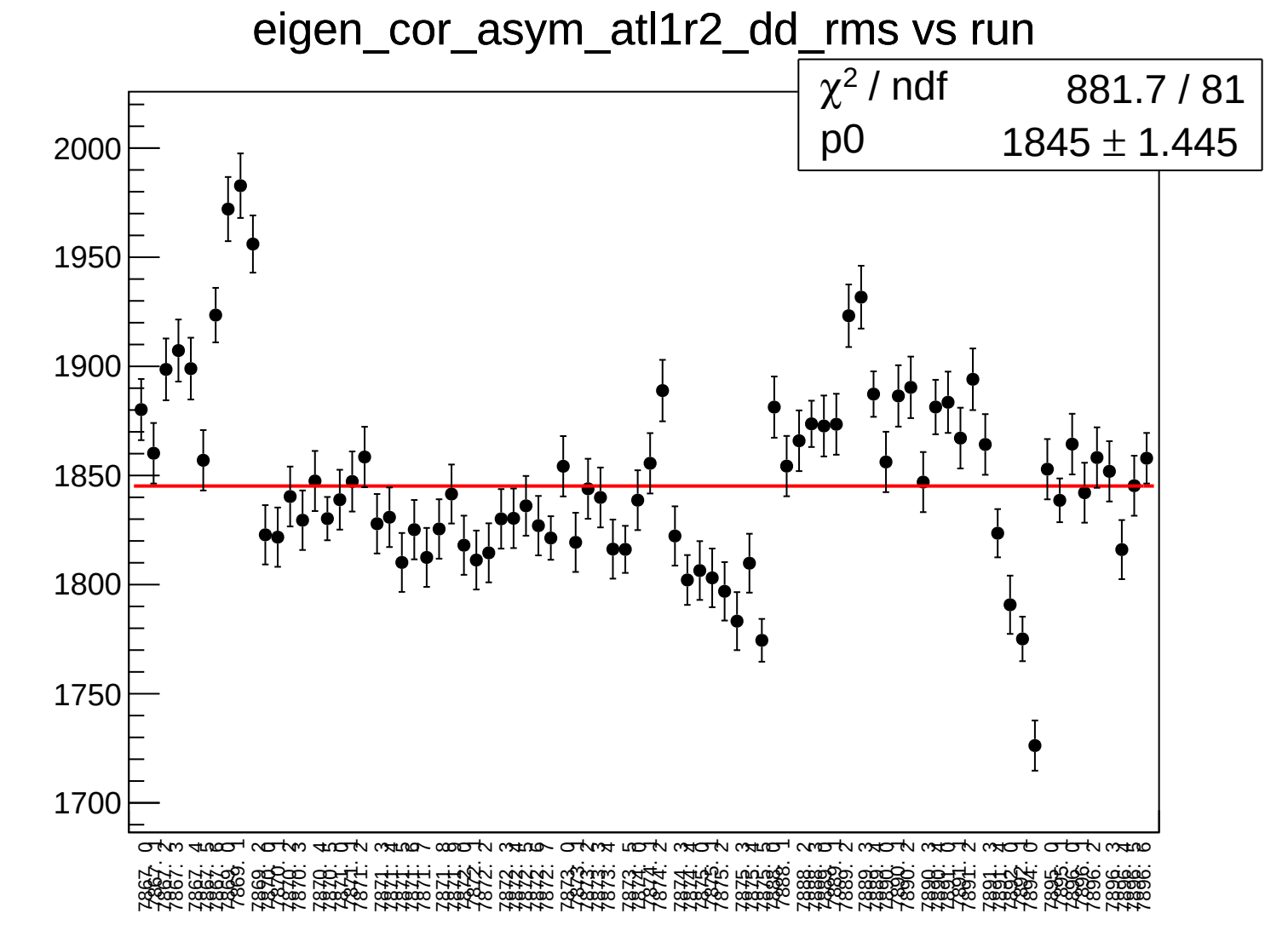

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 881.7 / 81
p0 1845 ± 1.445
2000
1950
1900
1850
1800
1750
1700

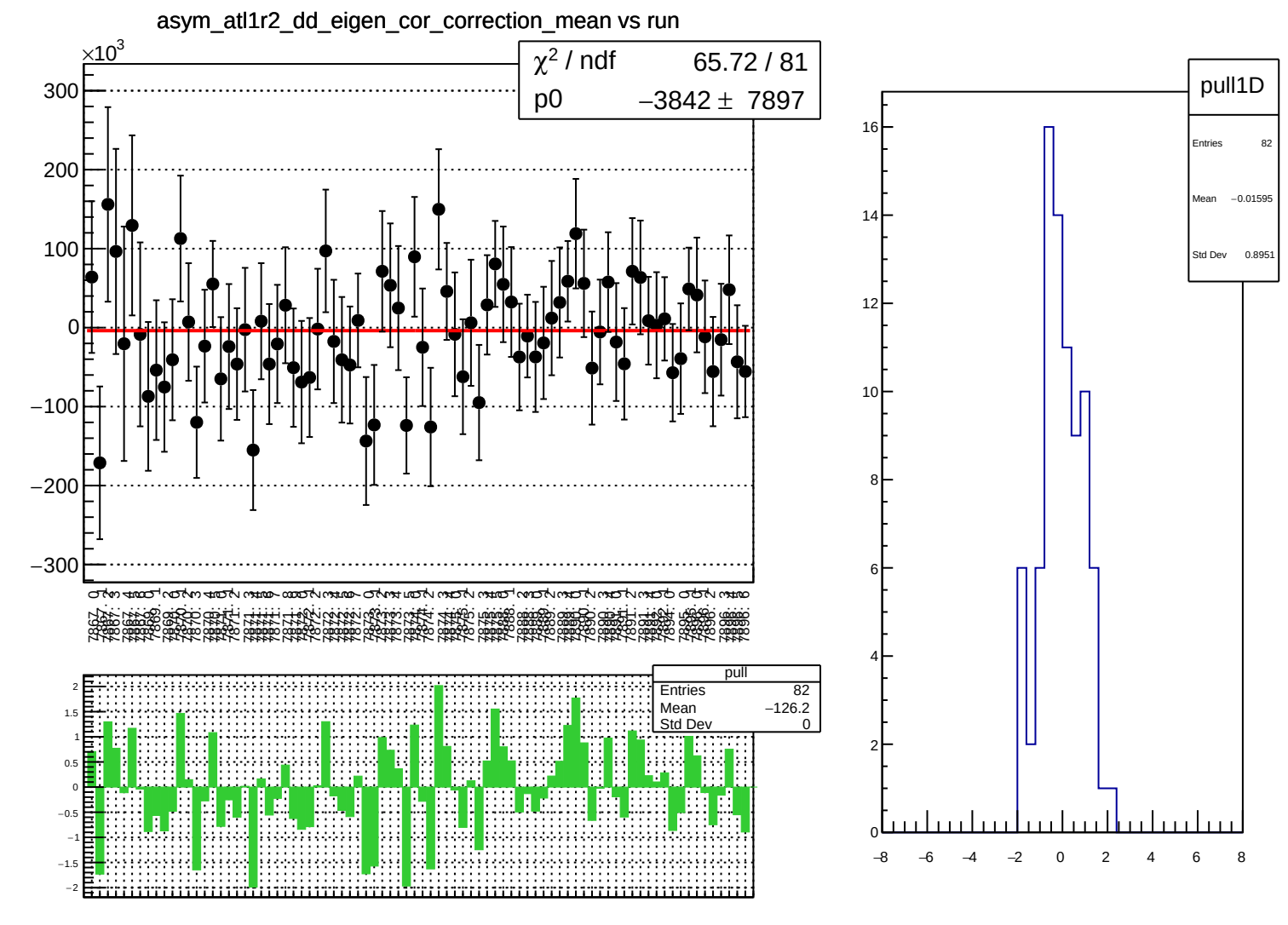

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.72 / 81
p0 −3842 ± 7897
pull
Entries 82
Mean −126.2
Std Dev 0
pull1D
Entries 82
Mean −0.01595
Std Dev 0.8951

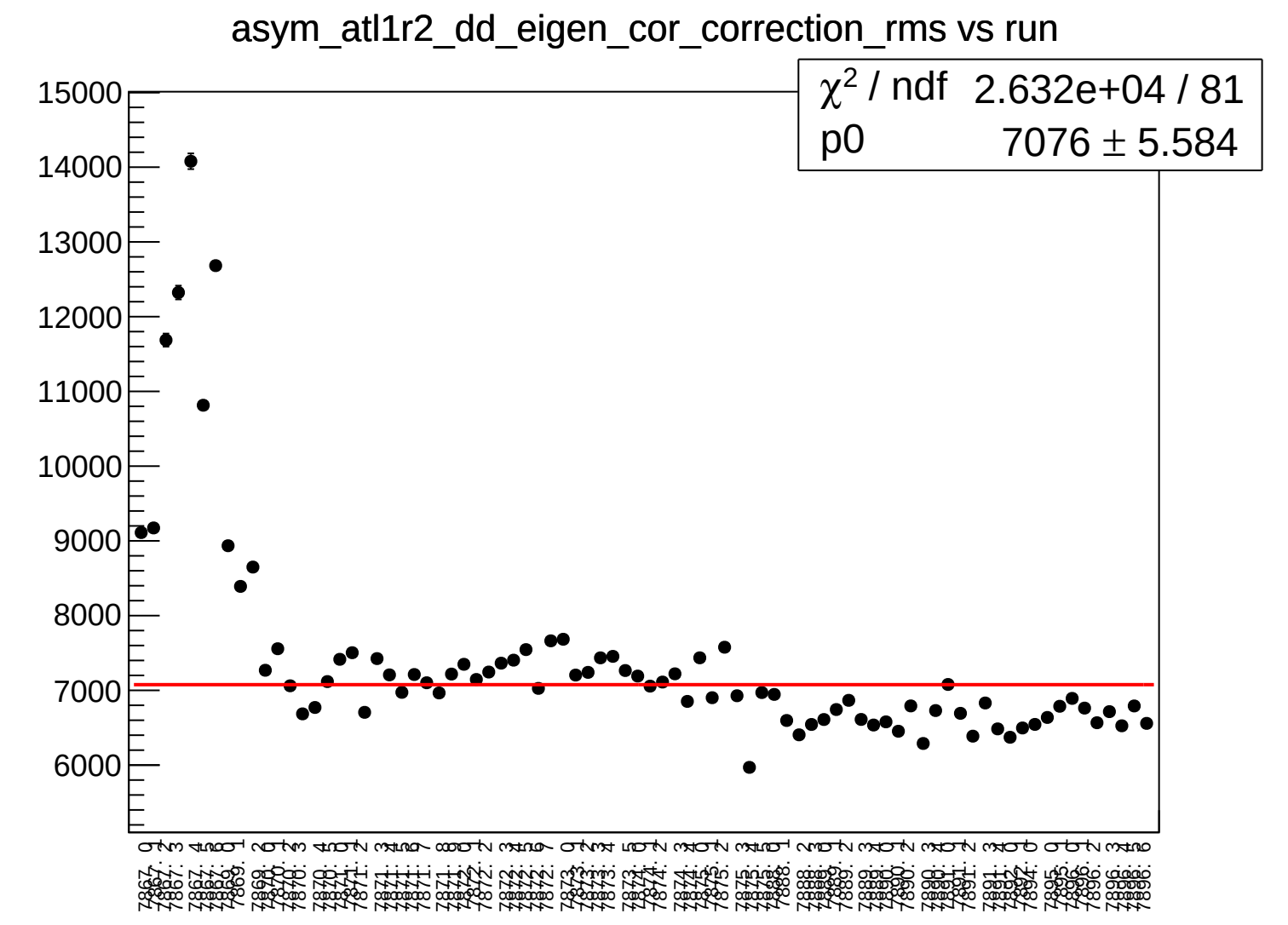

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2.632e+04 / 81
p0 7076 ± 5.584
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000

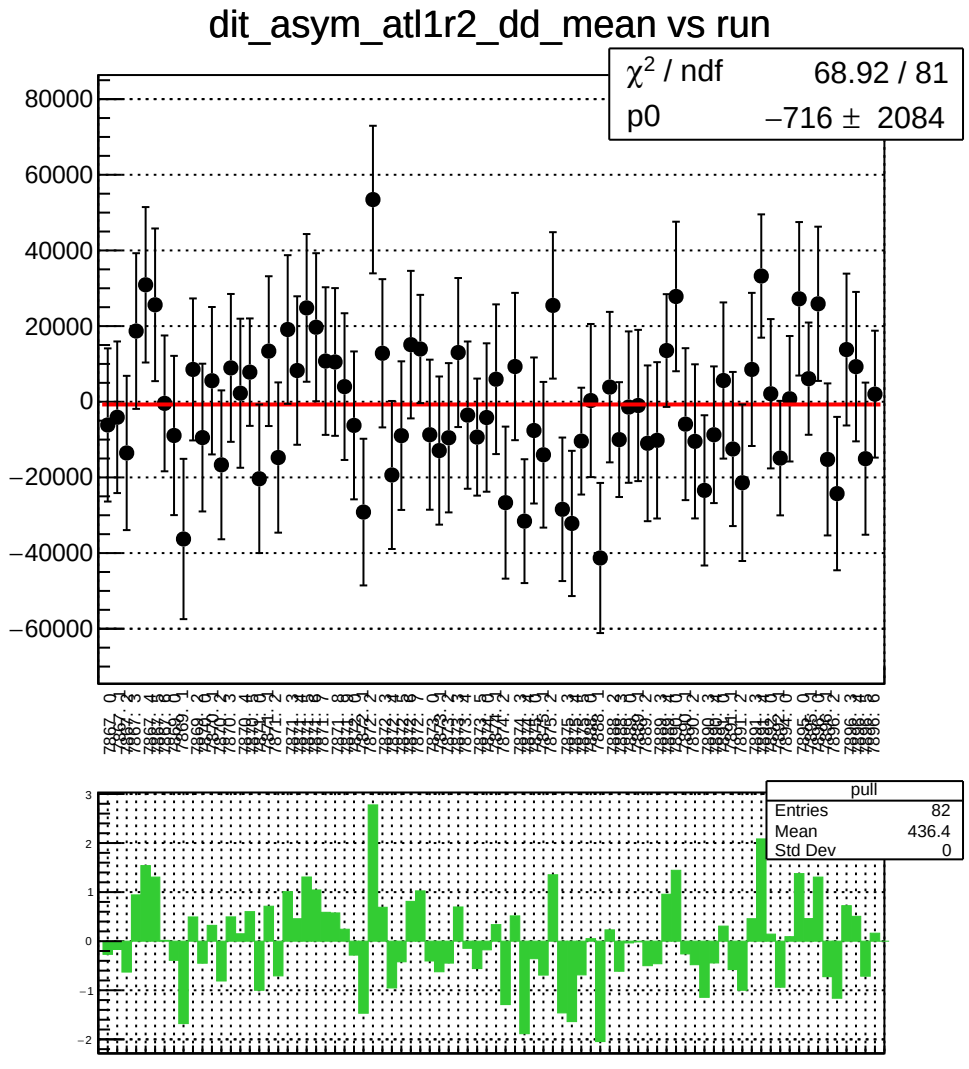

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 67.01 / 81
p0 −790 ± 2043
pull
Entries 82
Mean 370.1
Std Dev 0

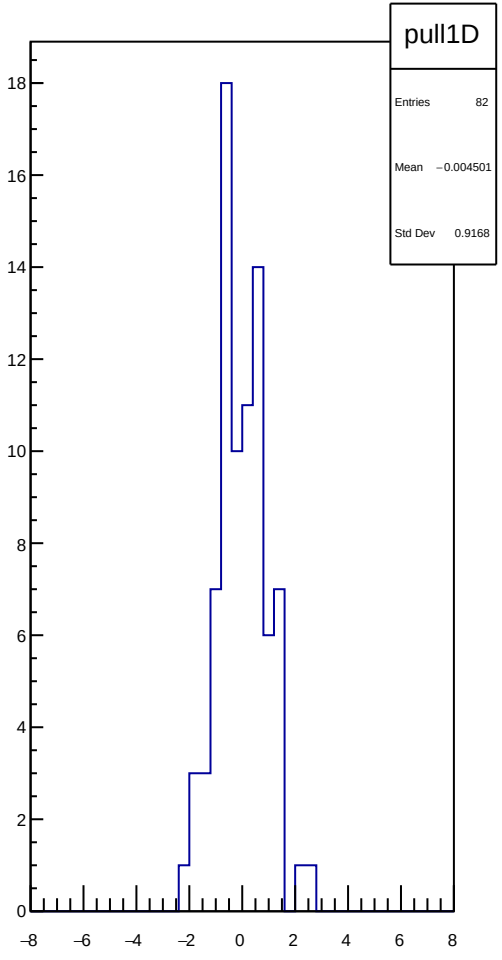

pull1D
Entries 82
Mean −0.003118
Std Dev 0.904

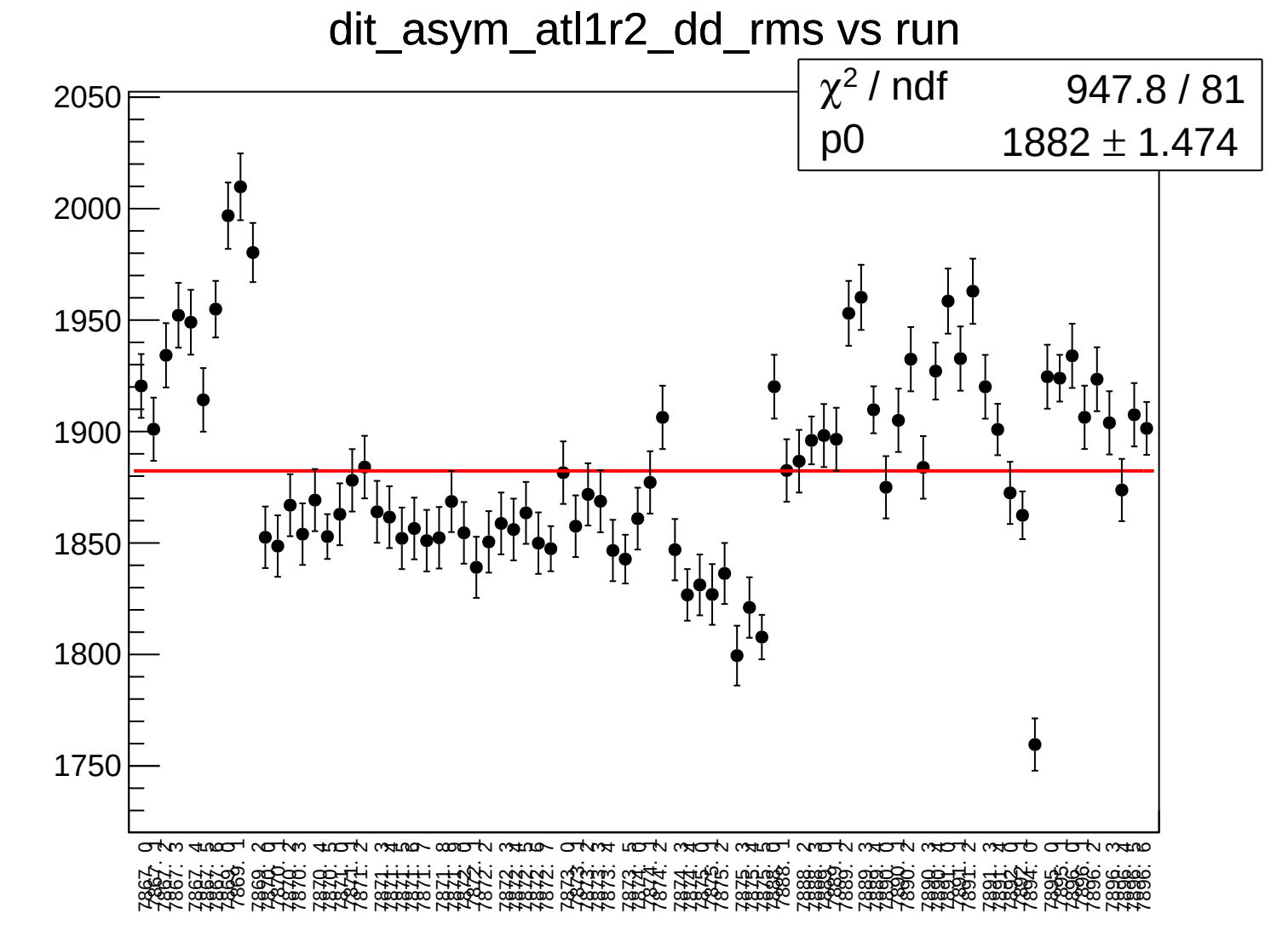

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 881.7 / 81
p0 1845 ± 1.445
2000
1950
1900
1850
1800
1750
1700

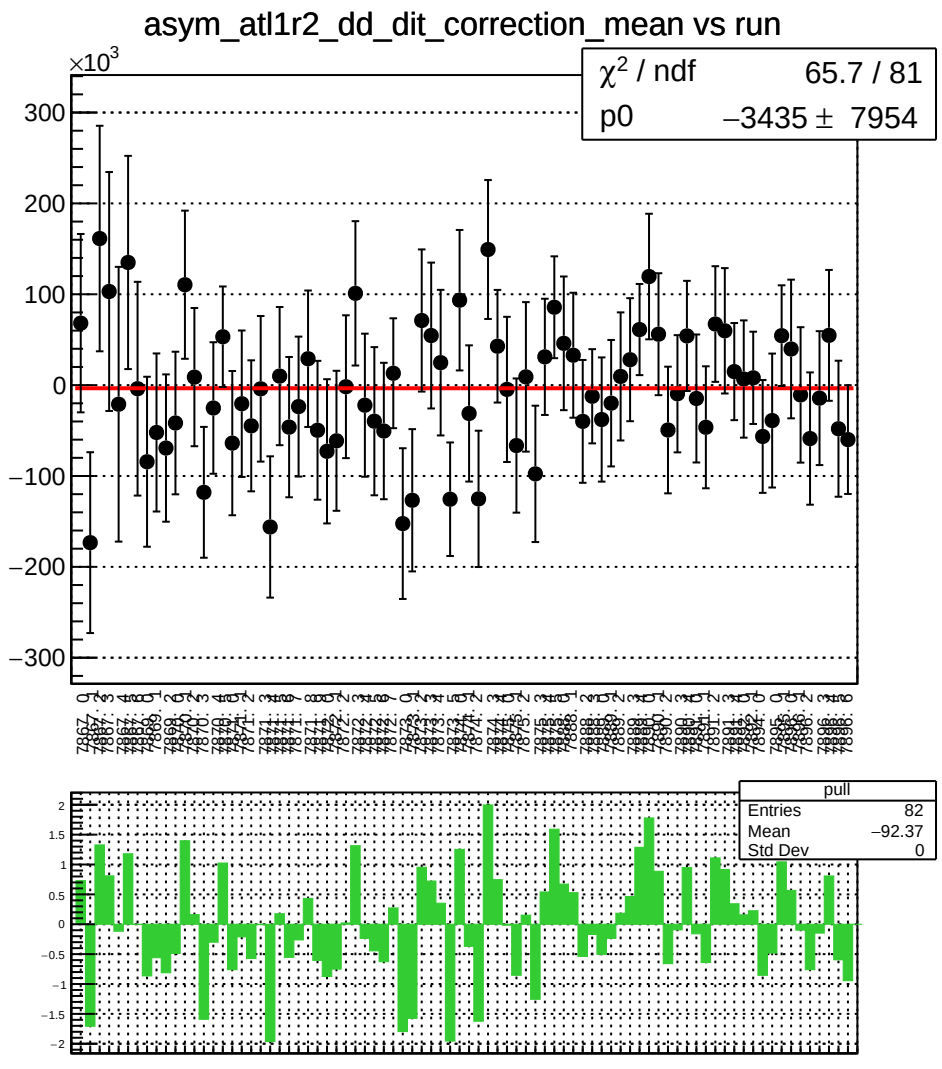

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.72 / 81
p0 −3842 ± 7897
pull
Entries 82
Mean −126.2
Std Dev 0
pull1D
Entries 82
Mean −0.01595
Std Dev 0.8951

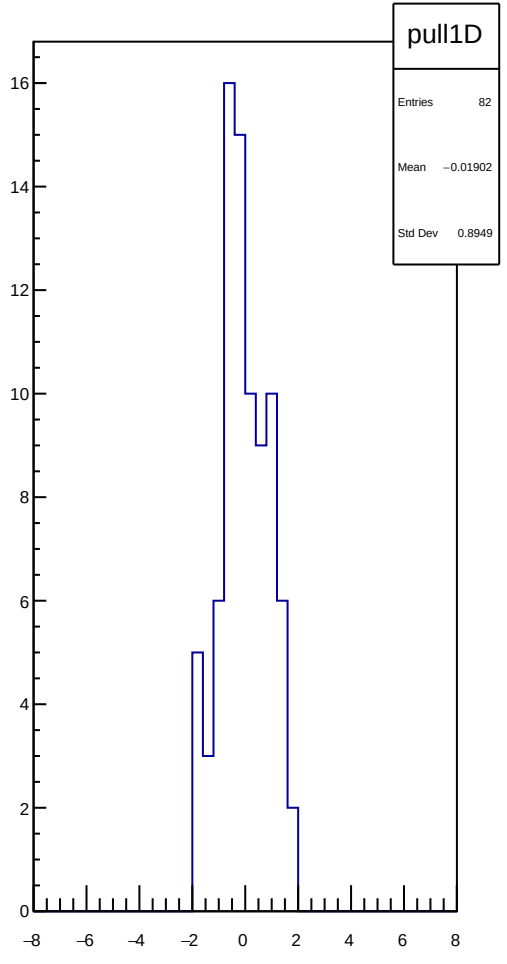

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.632e+04 / 81
p0 7076 ± 5.584
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000

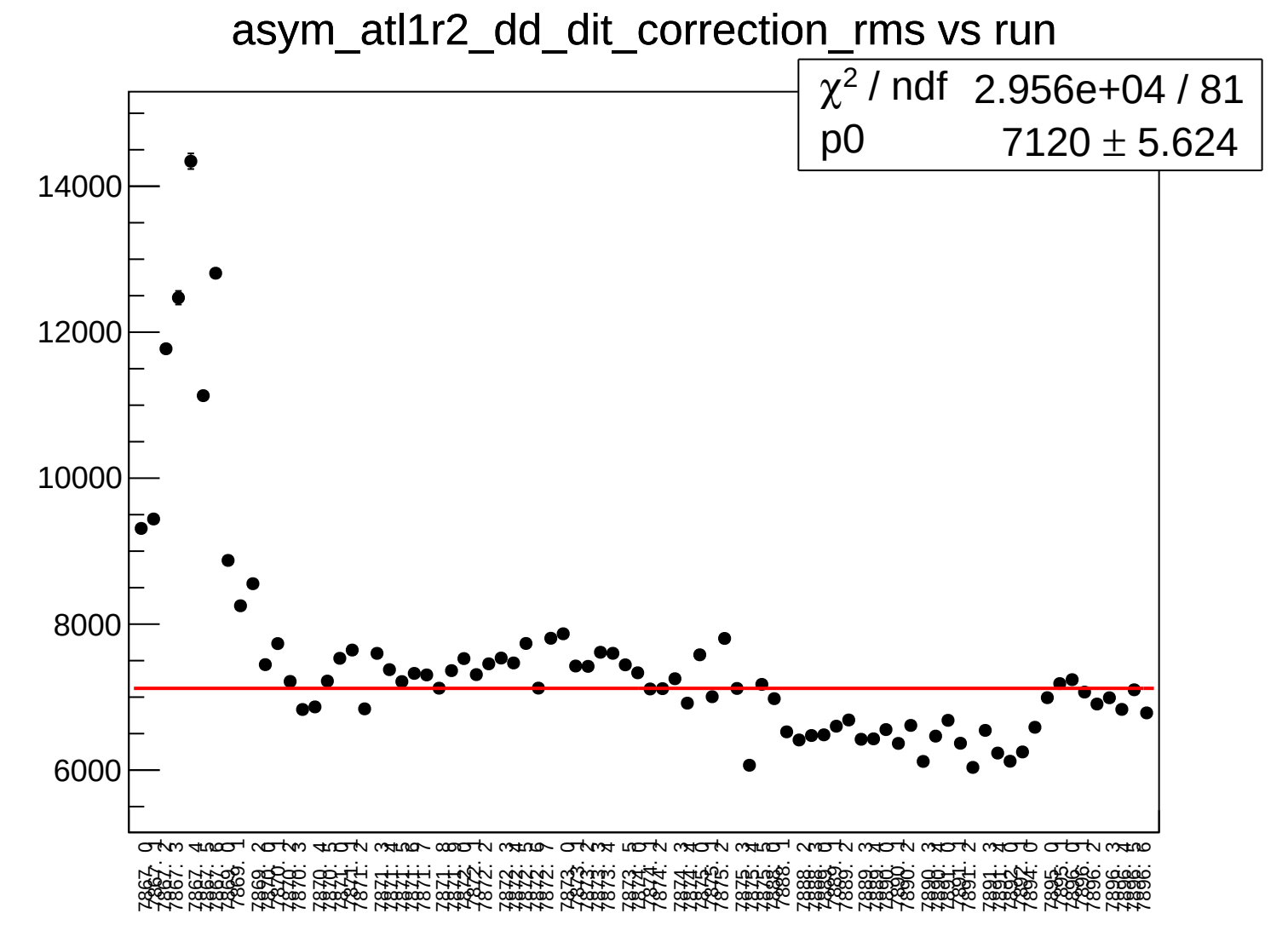

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 68.92 / 81
p0 −716 ± 2084
pull
Entries 82
Mean 436.4
Std Dev 0

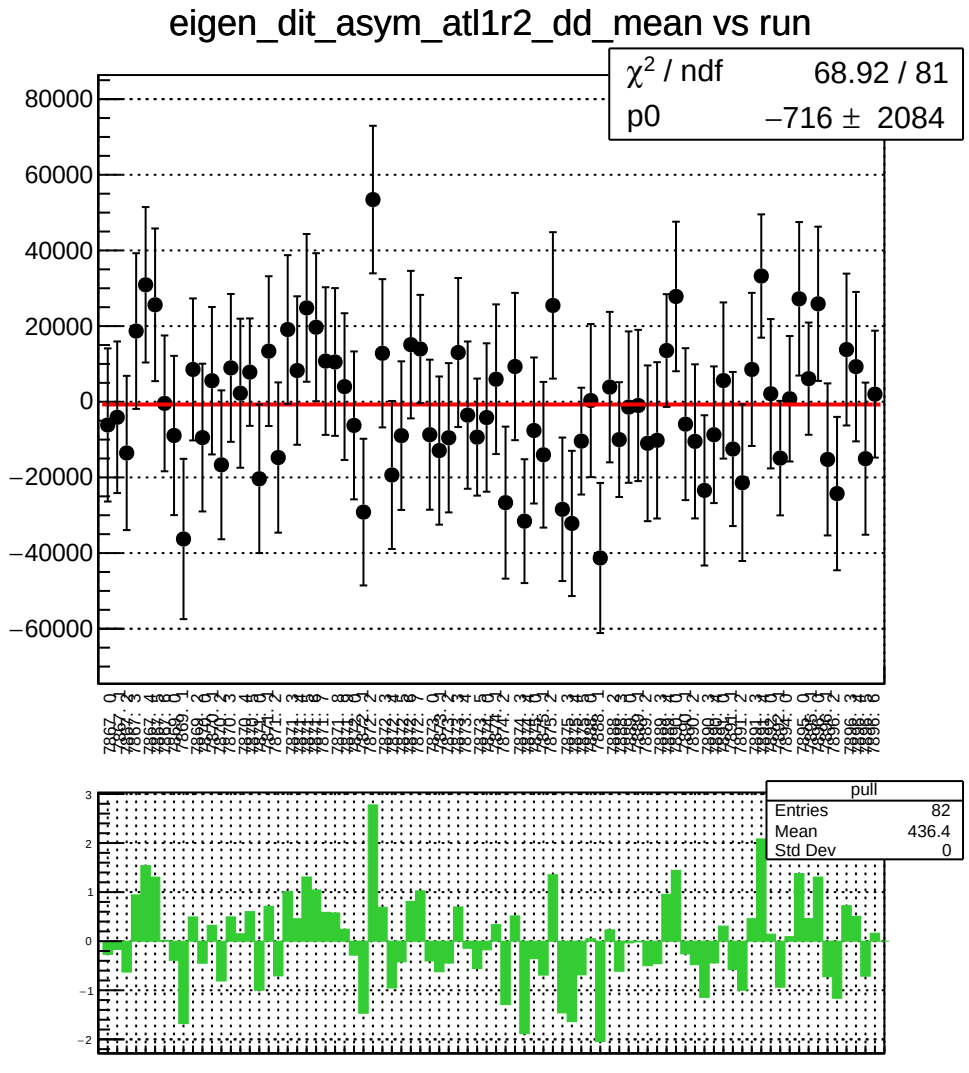

pull1D
Entries 82
Mean −0.004501
Std Dev 0.9168

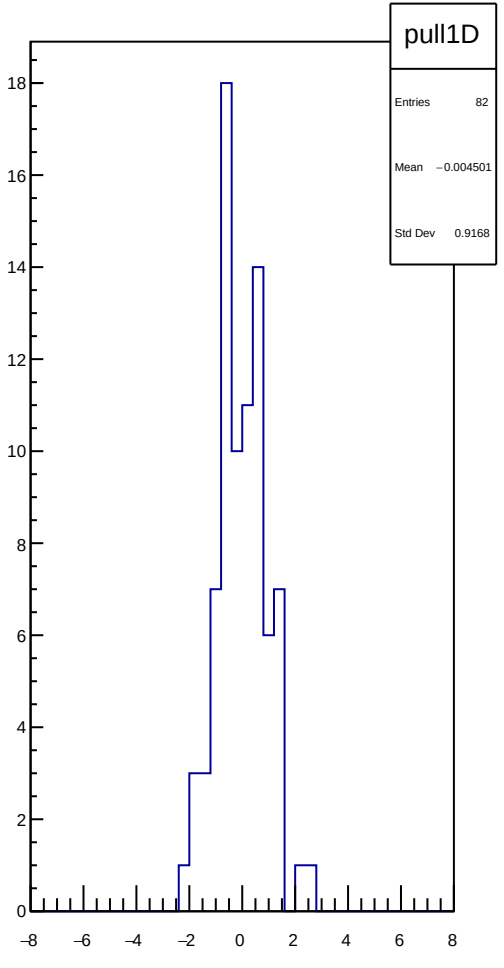

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 947.8 / 81
p0 1882 ± 1.474
2050
2000
1950
1900
1850
1800
1750

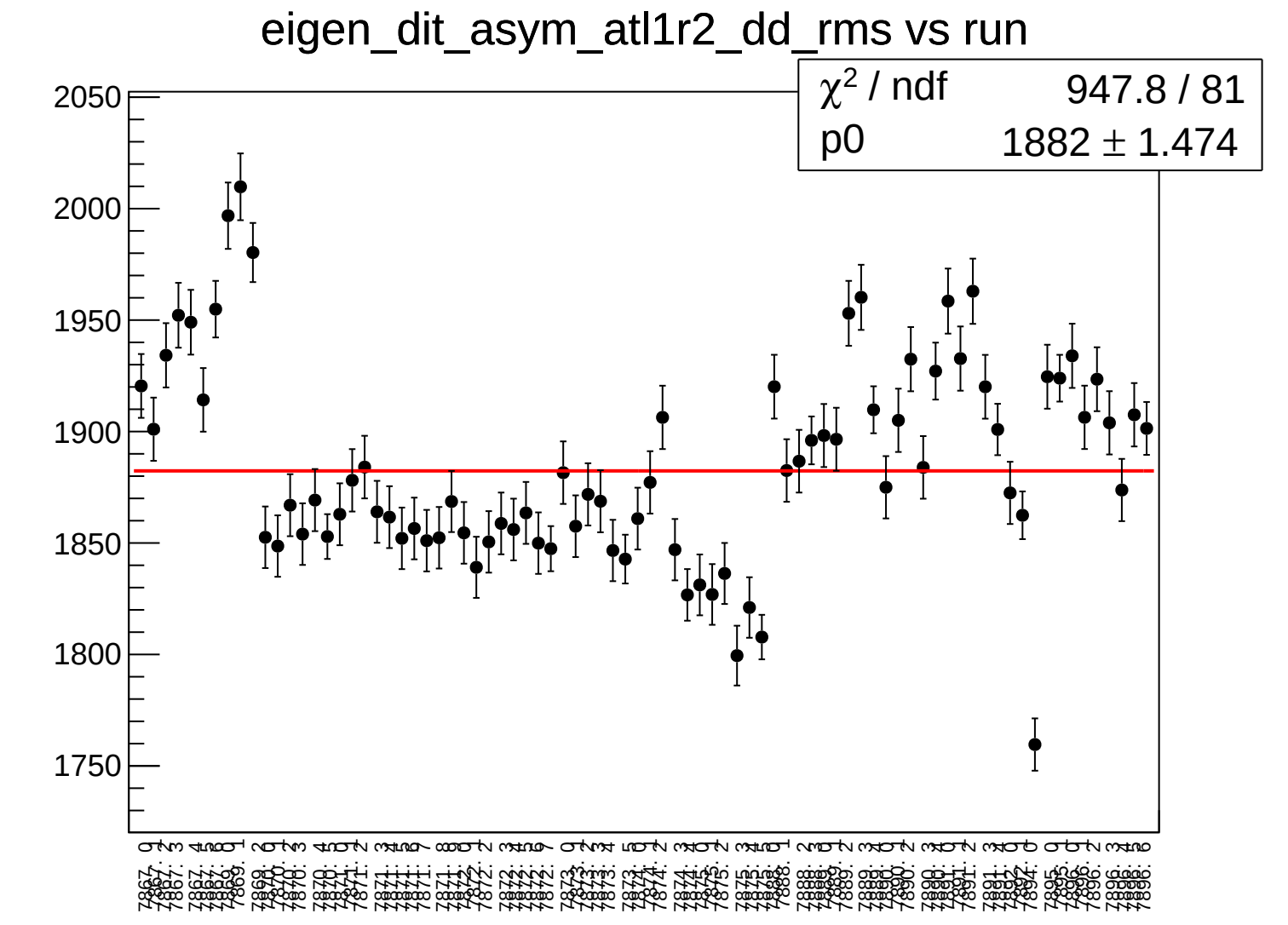

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.7 / 81
p0 −3435 ± 7954
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −92.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

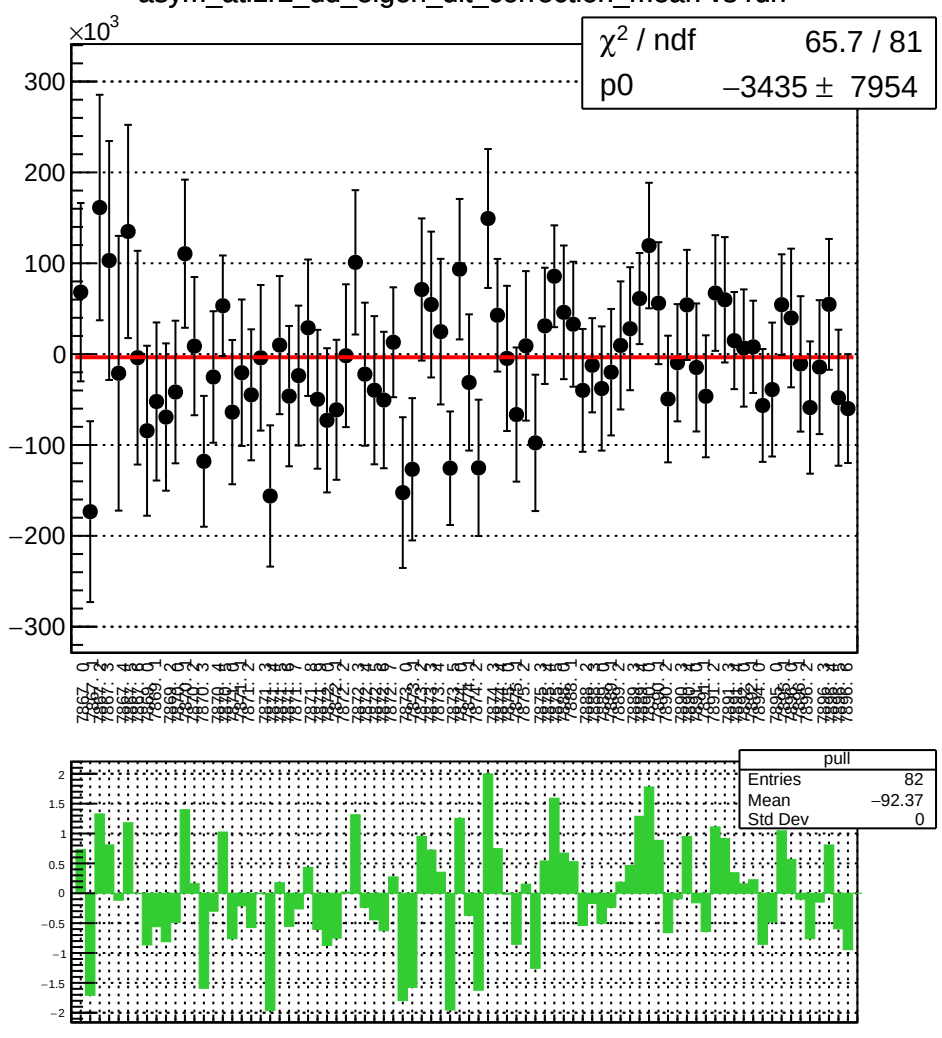

pull1D
Entries 82
Mean −0.01902
Std Dev 0.8949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

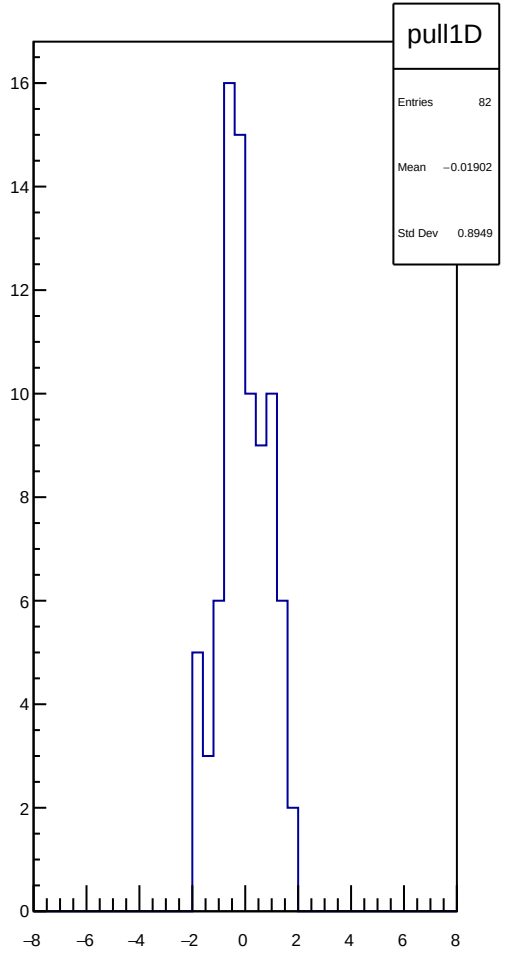

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2.956e+04 / 81
p0 7120 ± 5.624
14000
12000
10000
8000
6000

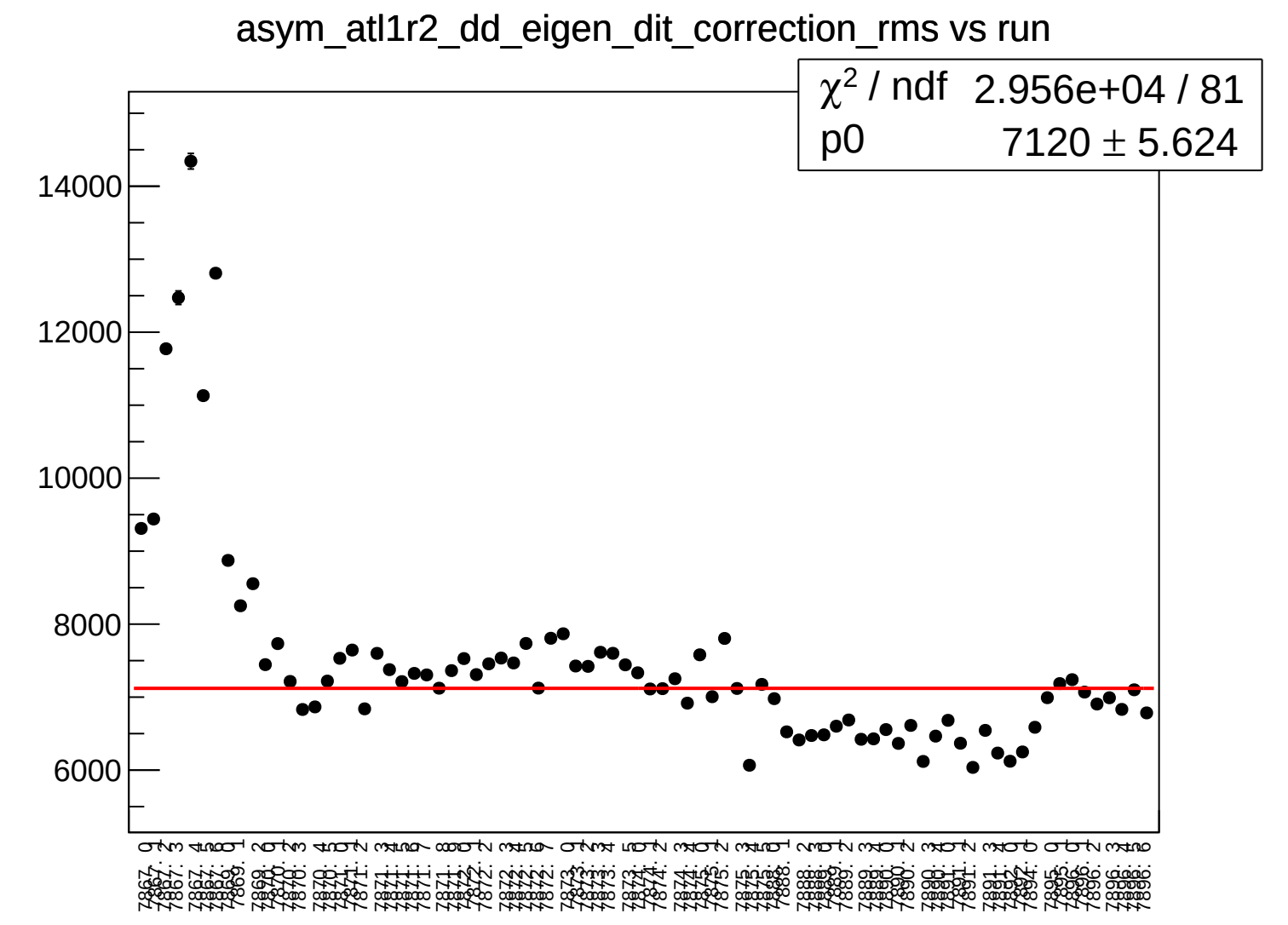

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 68.92 / 81
p0 −716 ± 2084
pull
Entries 82
Mean 436.4
Std Dev 0

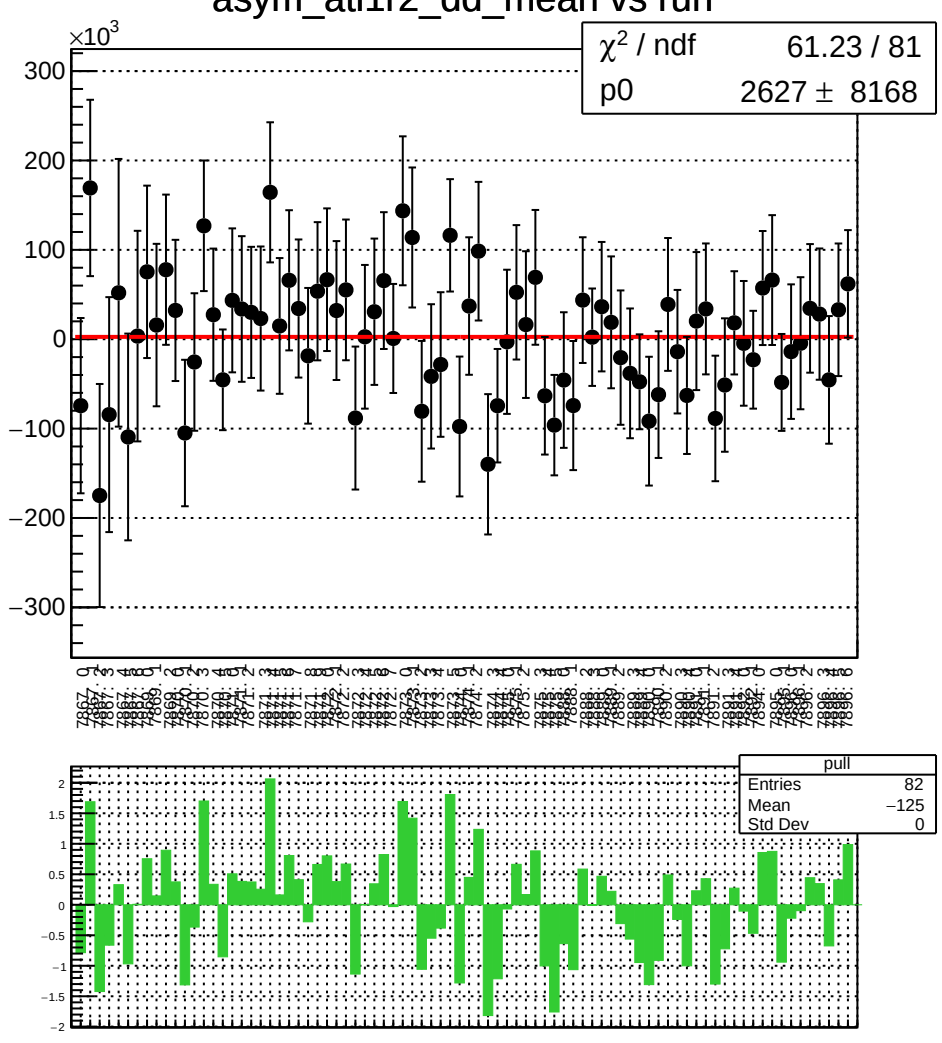

pull1D
Entries 82
Mean −0.004501
Std Dev 0.9168

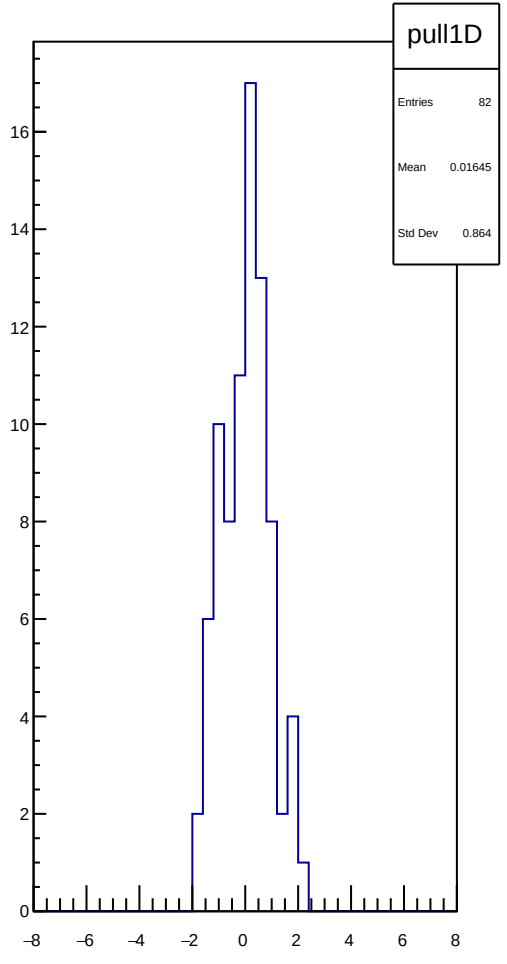

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 947.8 / 81
p0 1882 ± 1.474
2050
2000
1950
1900
1850
1800
1750

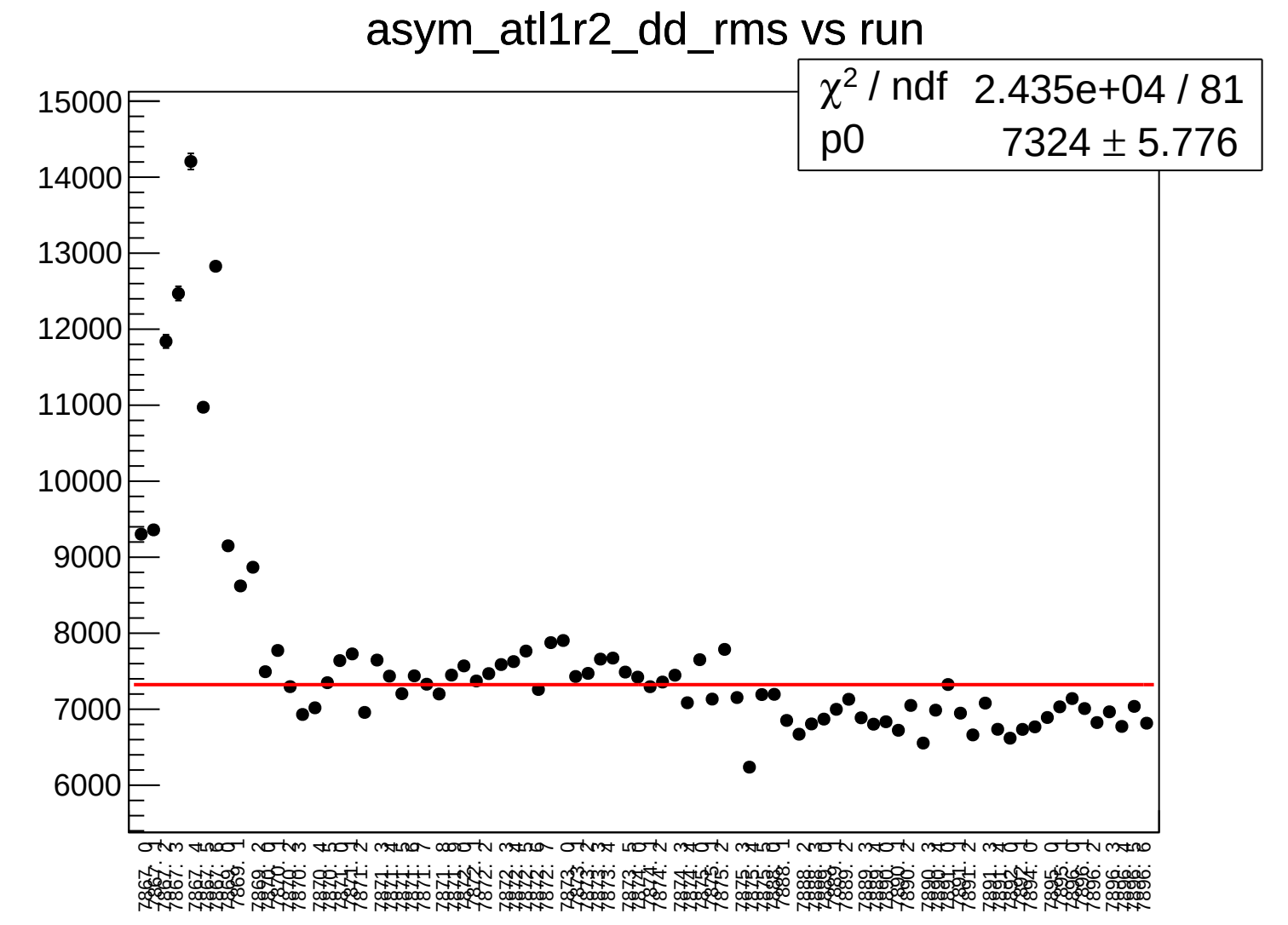

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.7 / 81
p0 −3435 ± 7954
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −92.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

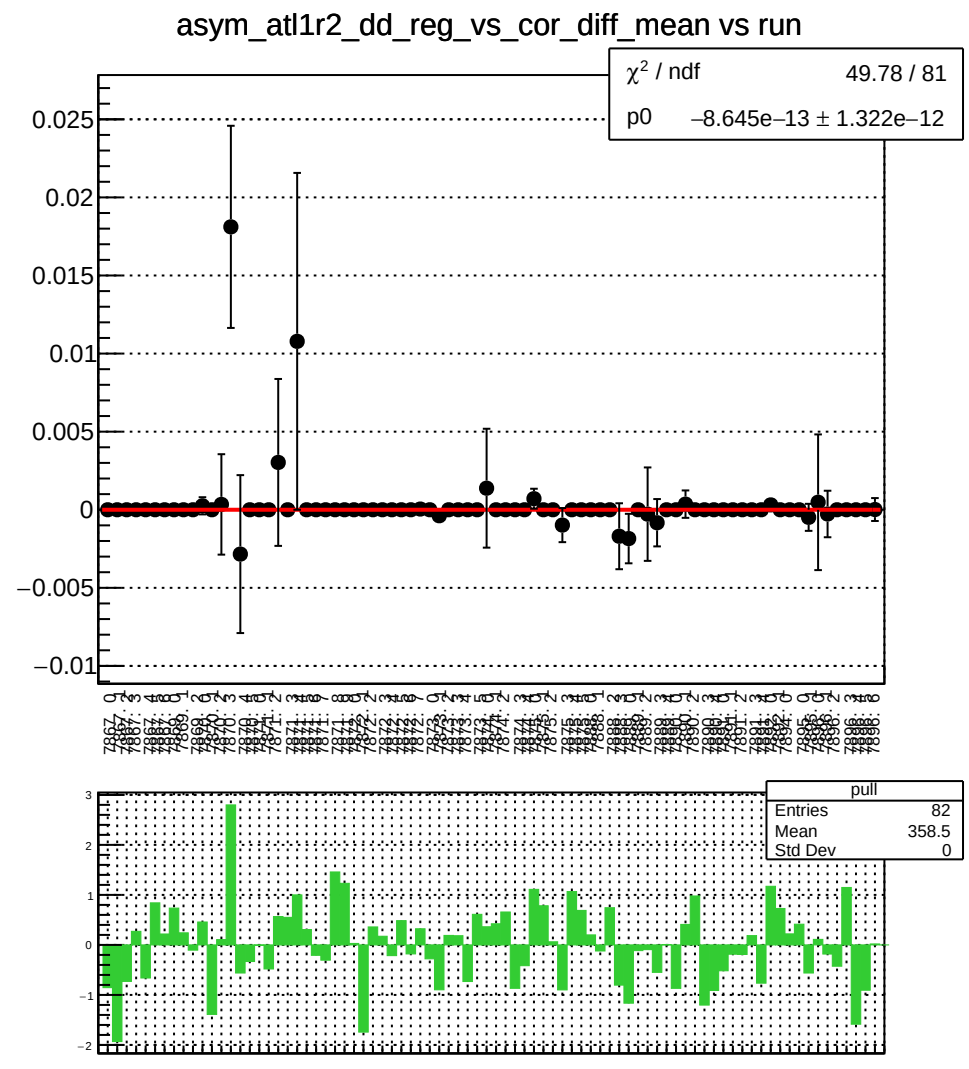

pull1D
Entries 82
Mean −0.01902
Std Dev 0.8949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

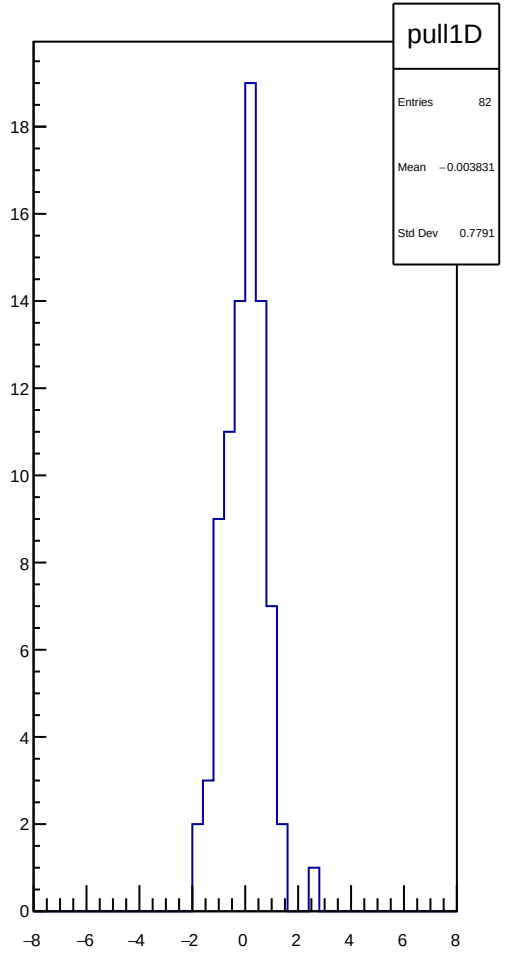

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.956e+04 / 81
p0 7120 ± 5.624
14000
12000
10000
8000
6000

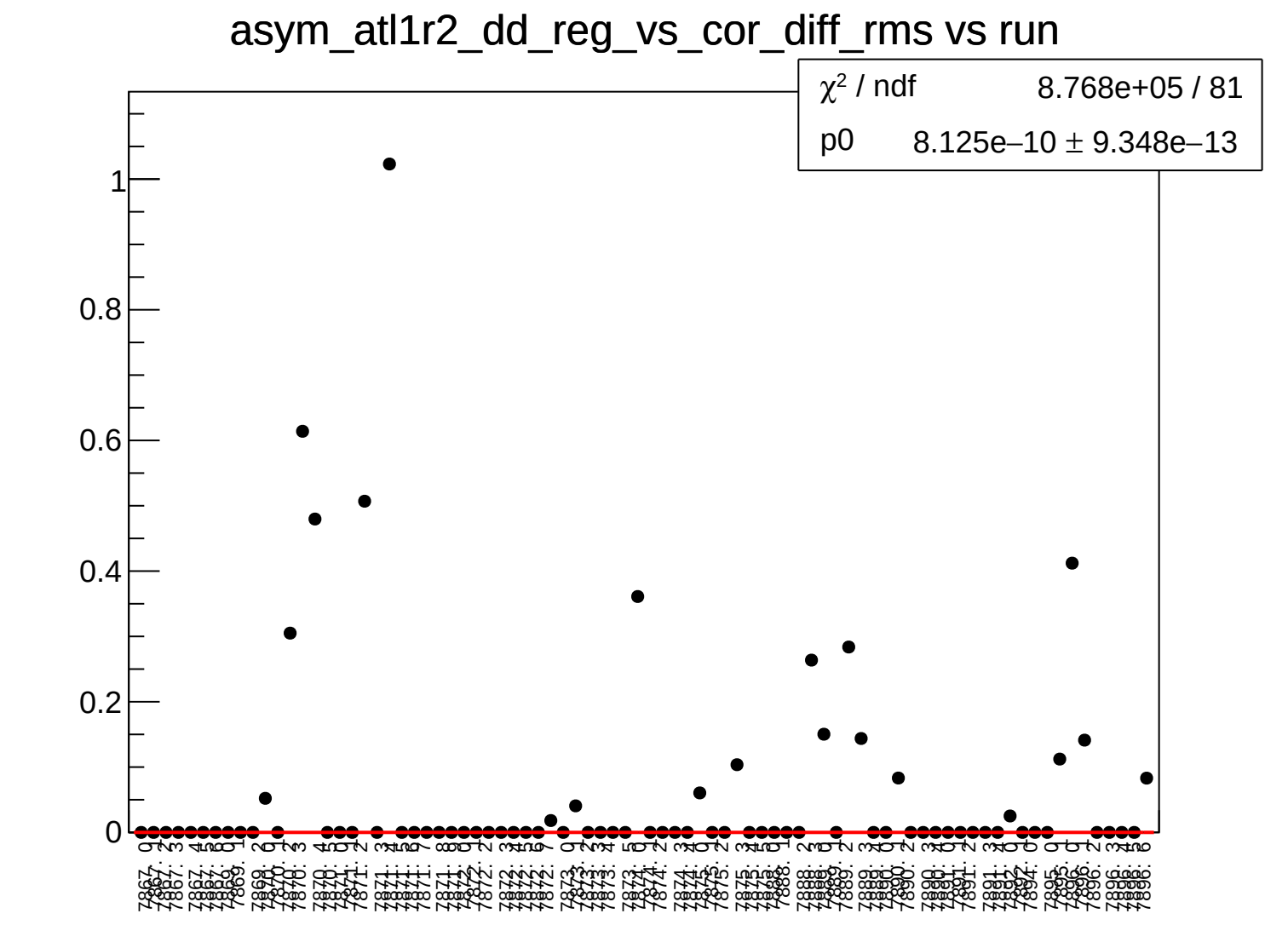

asym_atl1r2_dd_mean vs run
χ² / ndf 61.23 / 81
p0 2627 ± 8168
×10³
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

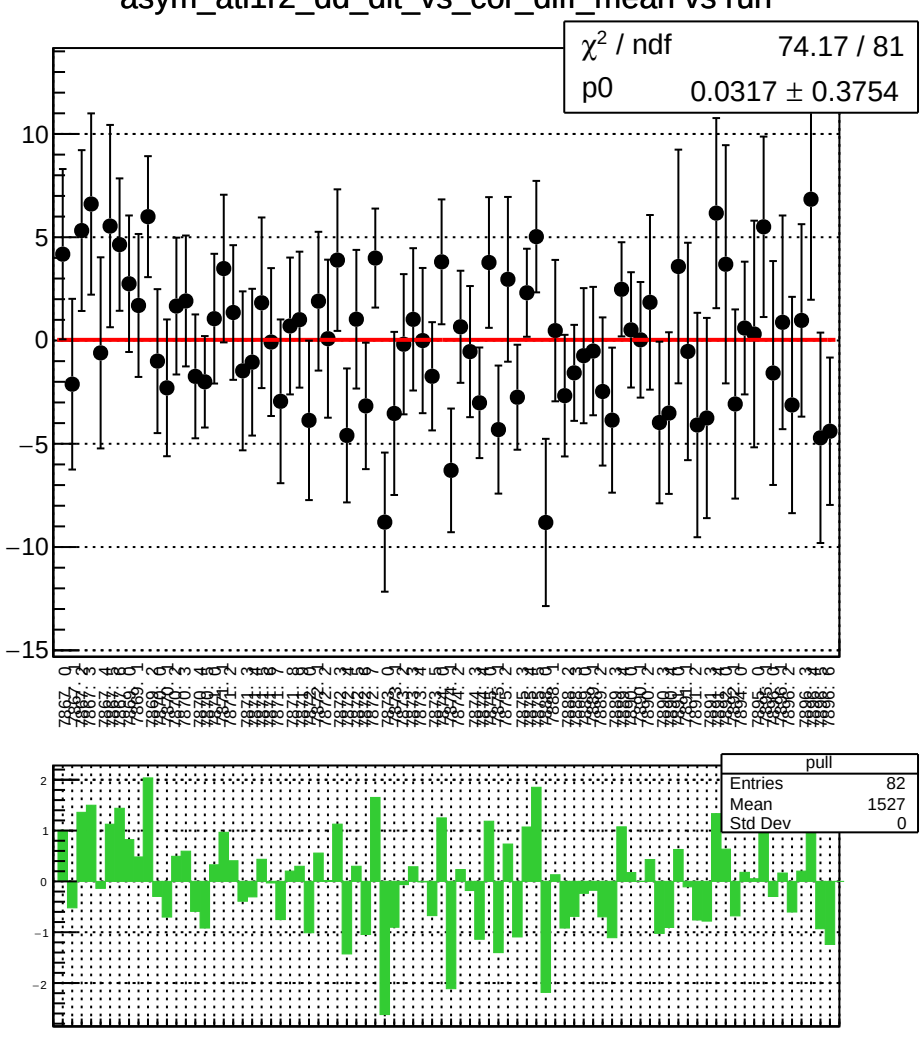

pull1D
Entries 82
Mean 0.01645
Std Dev 0.864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

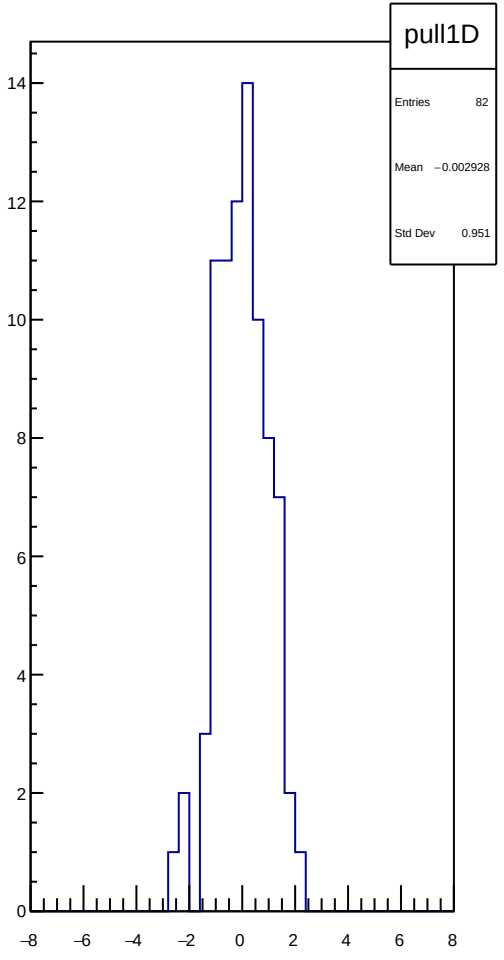

asym_atl1r2_dd_rms vs run
χ^2 / ndf 2.435e+04 / 81
p0 7324 ± 5.776
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000

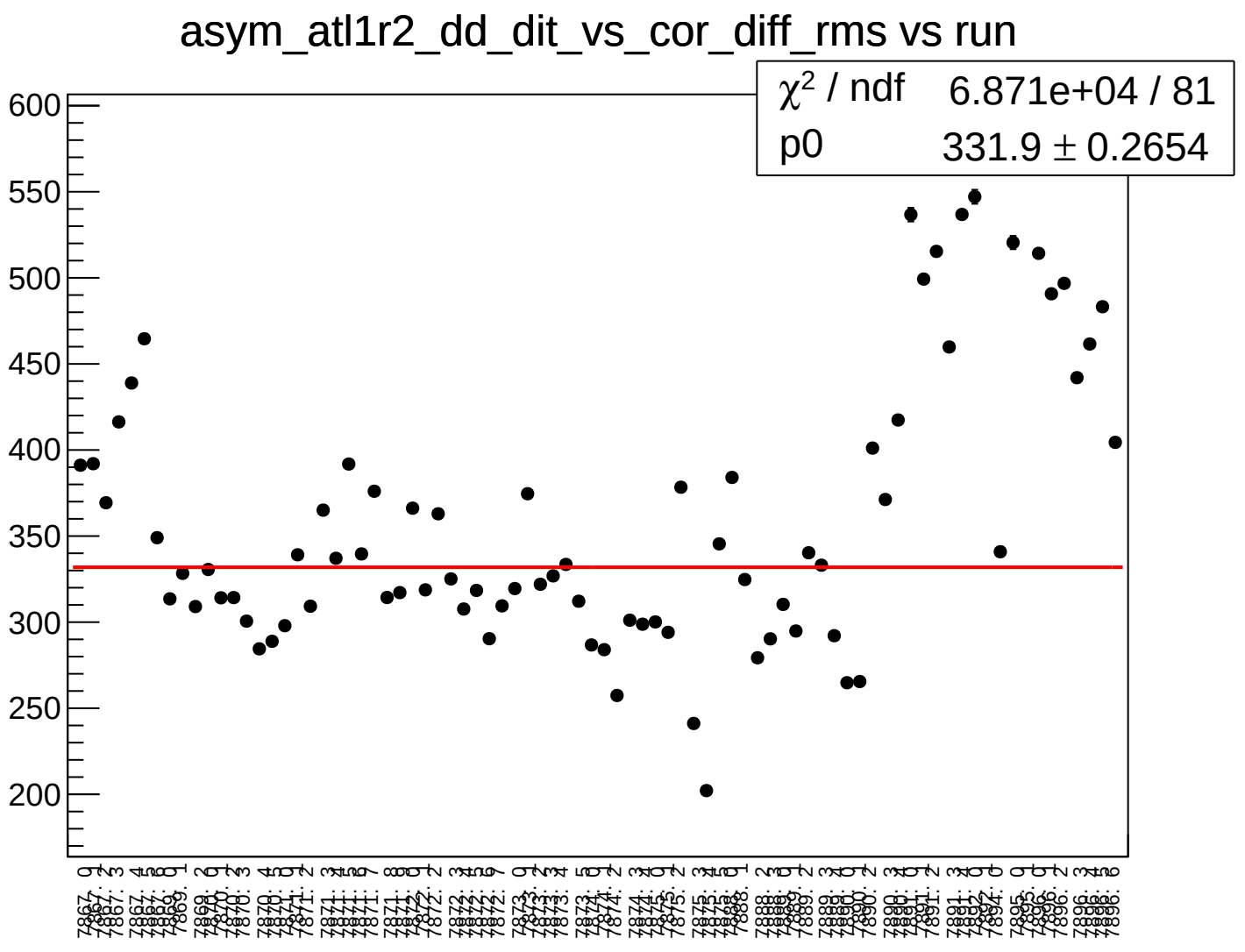

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 49.78 / 81
p0 −8.645e−13 ± 1.322e−12
pull
Entries 82
Mean 358.5
Std Dev 0

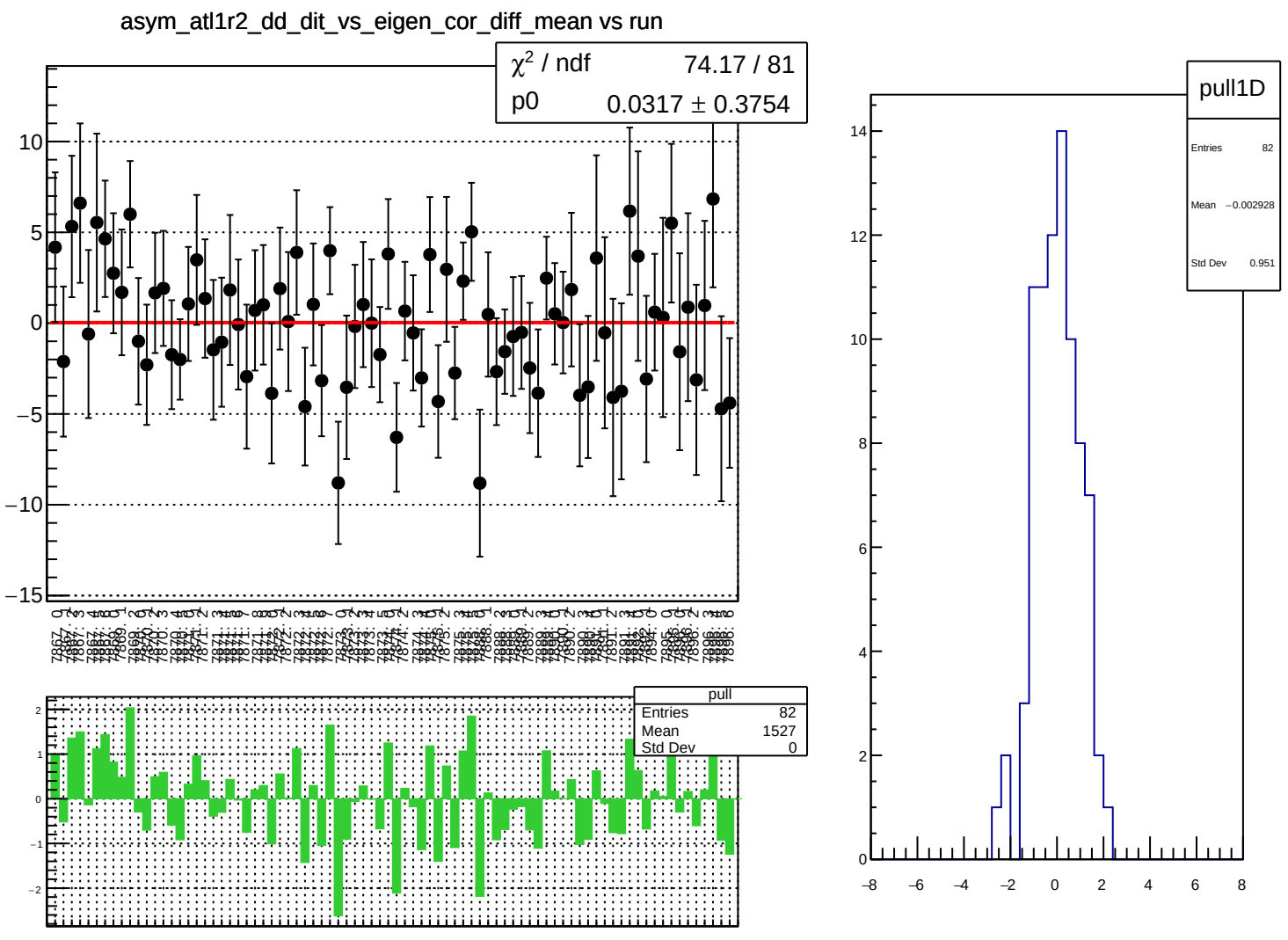

pull1D
Entries 82
Mean −0.003831
Std Dev 0.7791

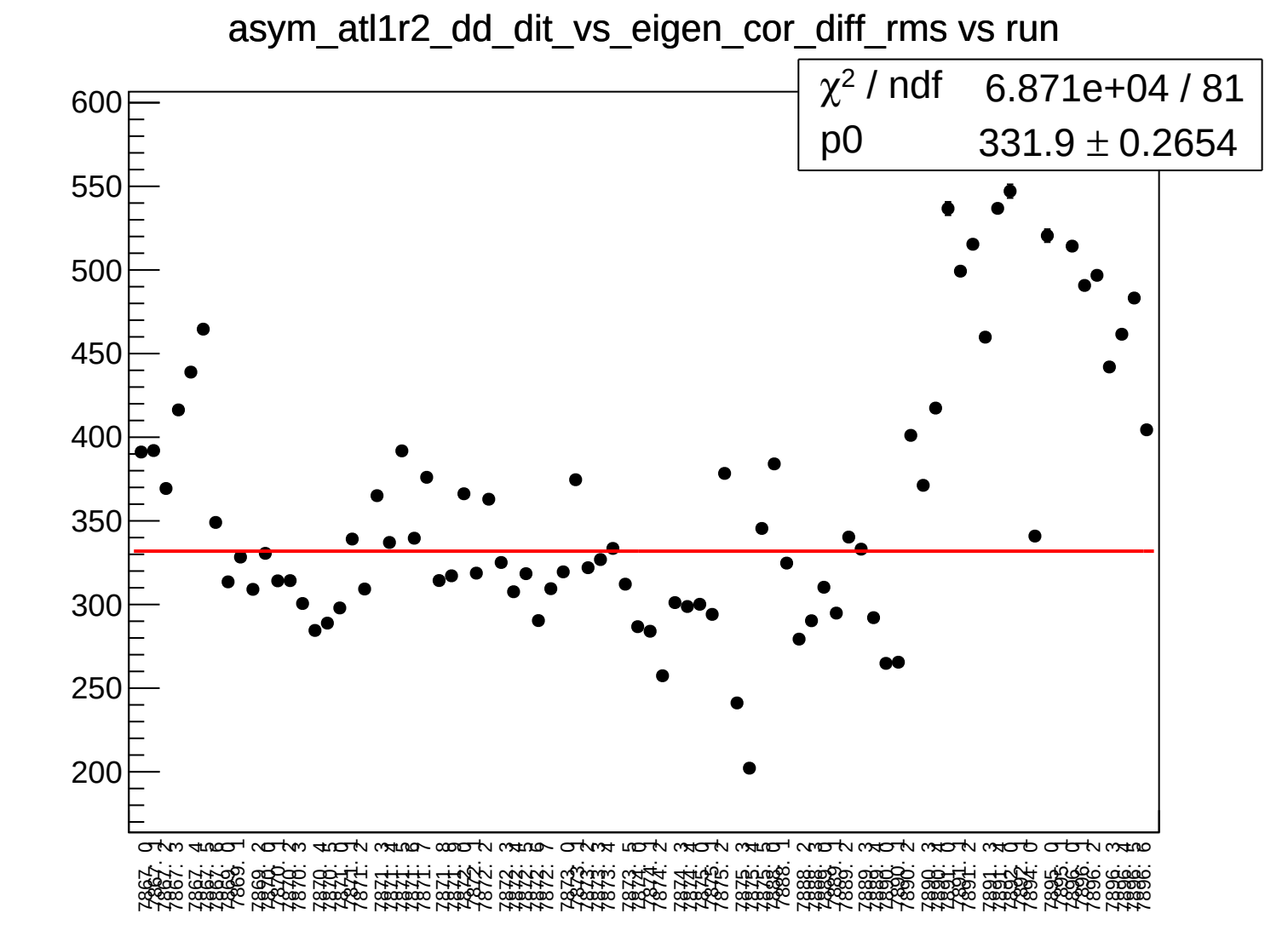

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.768e+05 / 81
p0 8.125e−10 ± 9.348e−13
1
0.8
0.6
0.4
0.2
0

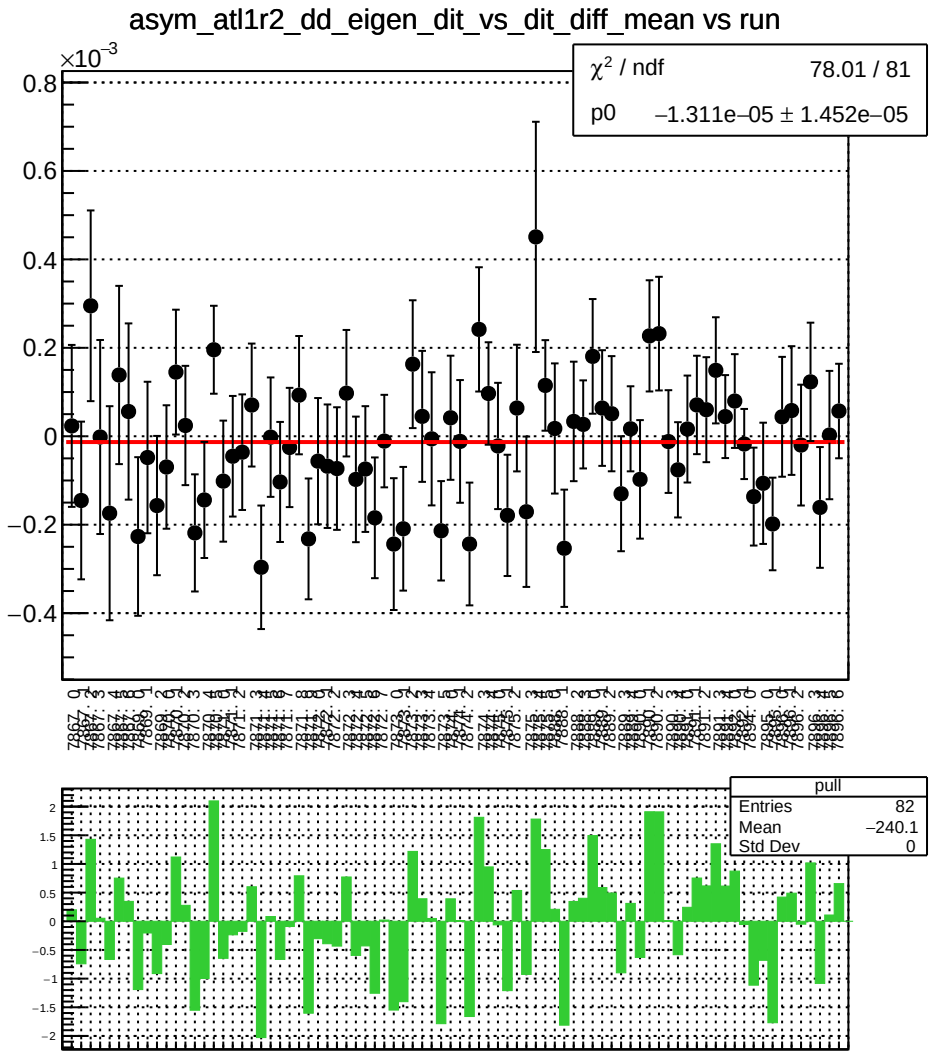

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.17 / 81
p0 0.0317 ± 0.3754
pull
Entries 82
Mean 1527
Std Dev 0

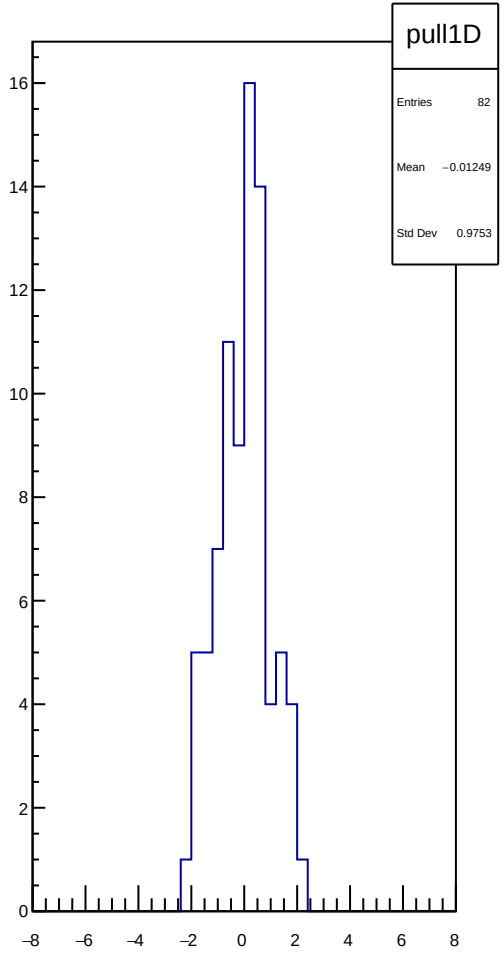

pull1D
Entries 82
Mean −0.002928
Std Dev 0.951

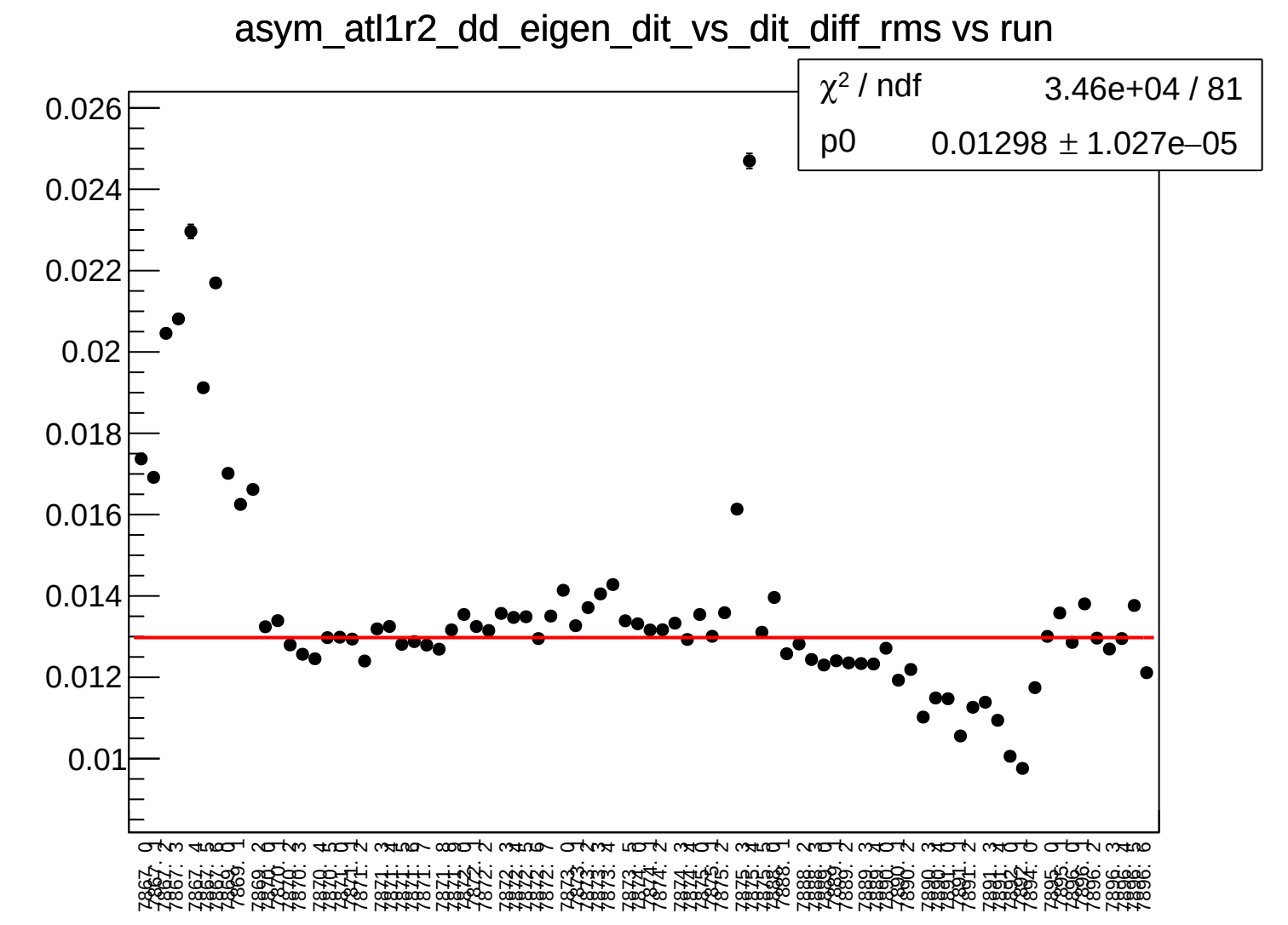

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.871e+04 / 81
p0 331.9 ± 0.2654
600
550
500
450
400
350
300
250
200

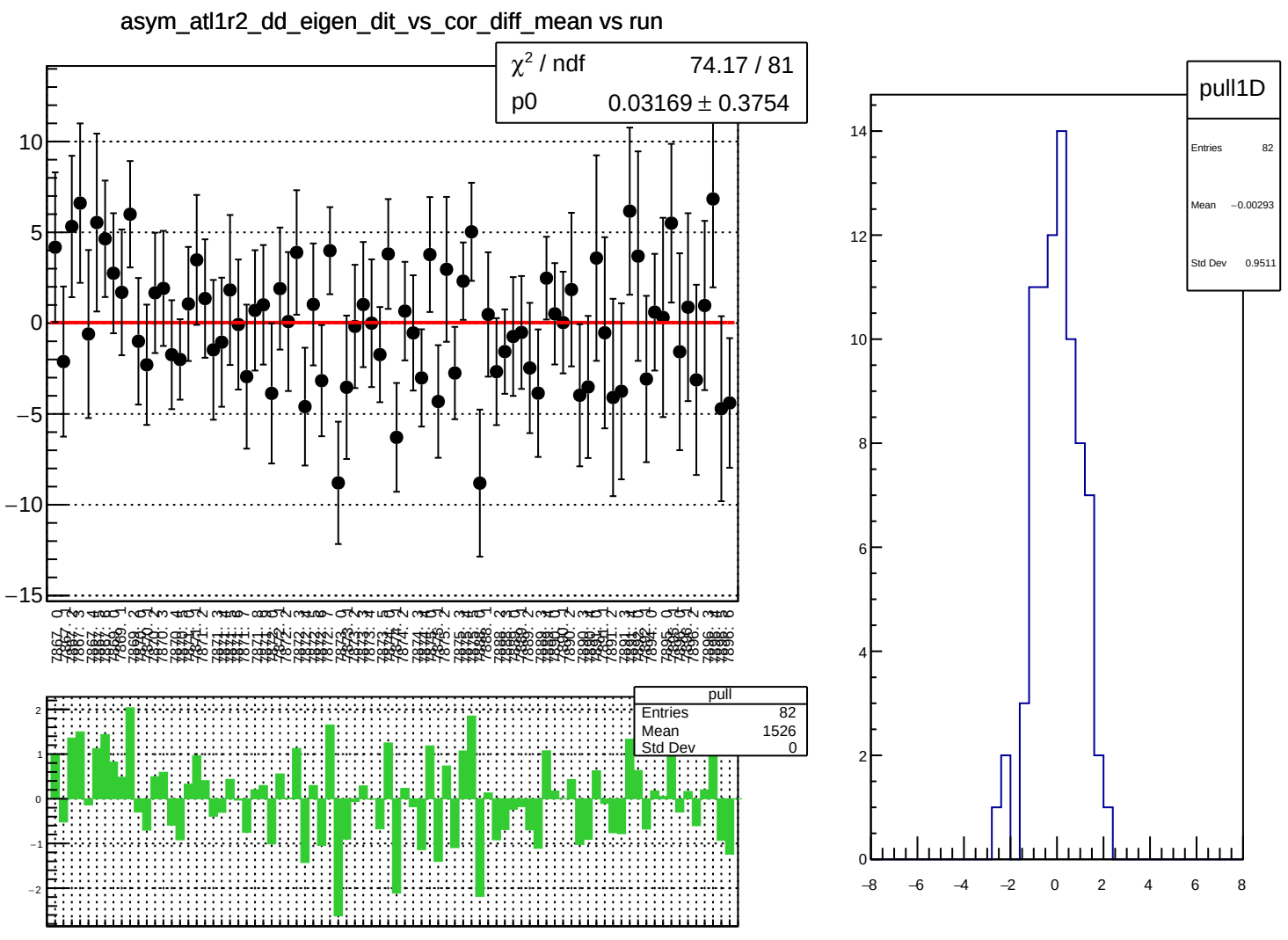

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.17 / 81
p0 0.0317 ± 0.3754
pull
Entries 82
Mean 1527
Std Dev 0
pull1D
Entries 82
Mean −0.002928
Std Dev 0.951

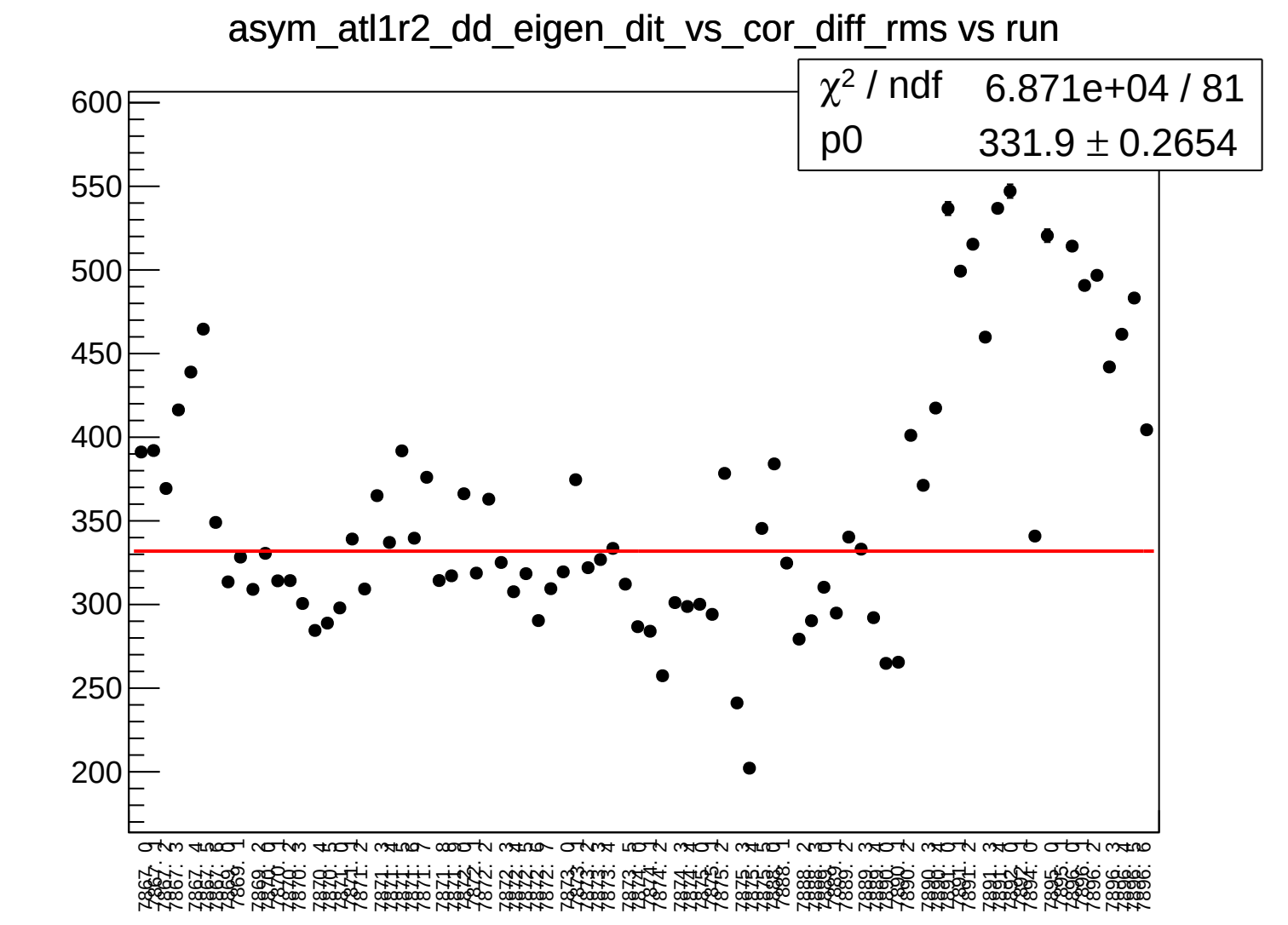

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.871e+04 / 81
p0 331.9 ± 0.2654
600
550
500
450
400
350
300
250
200

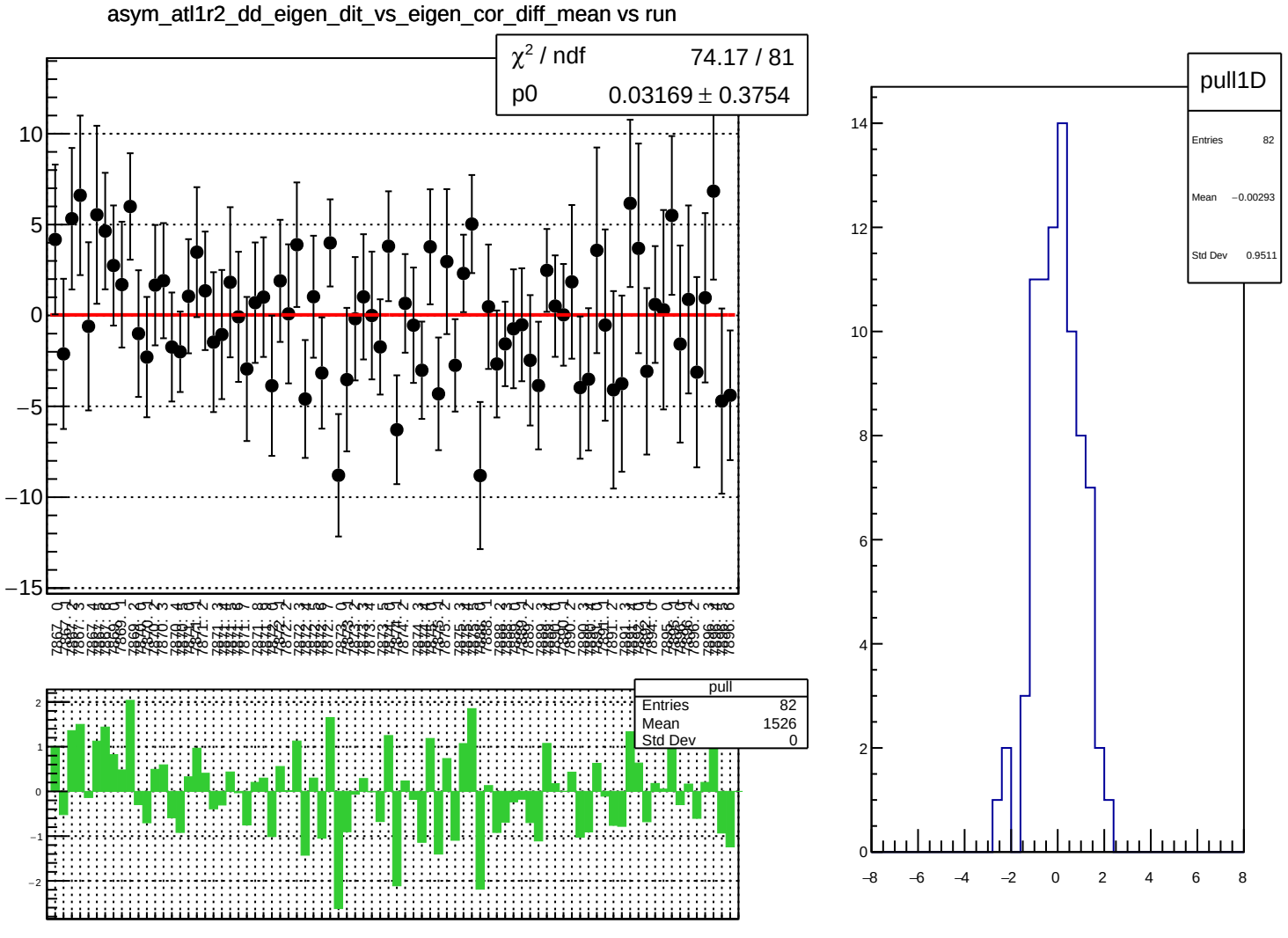

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.01 / 81
p0 −1.311e−05 ± 1.452e−05
pull
Entries 82
Mean −240.1
Std Dev 0

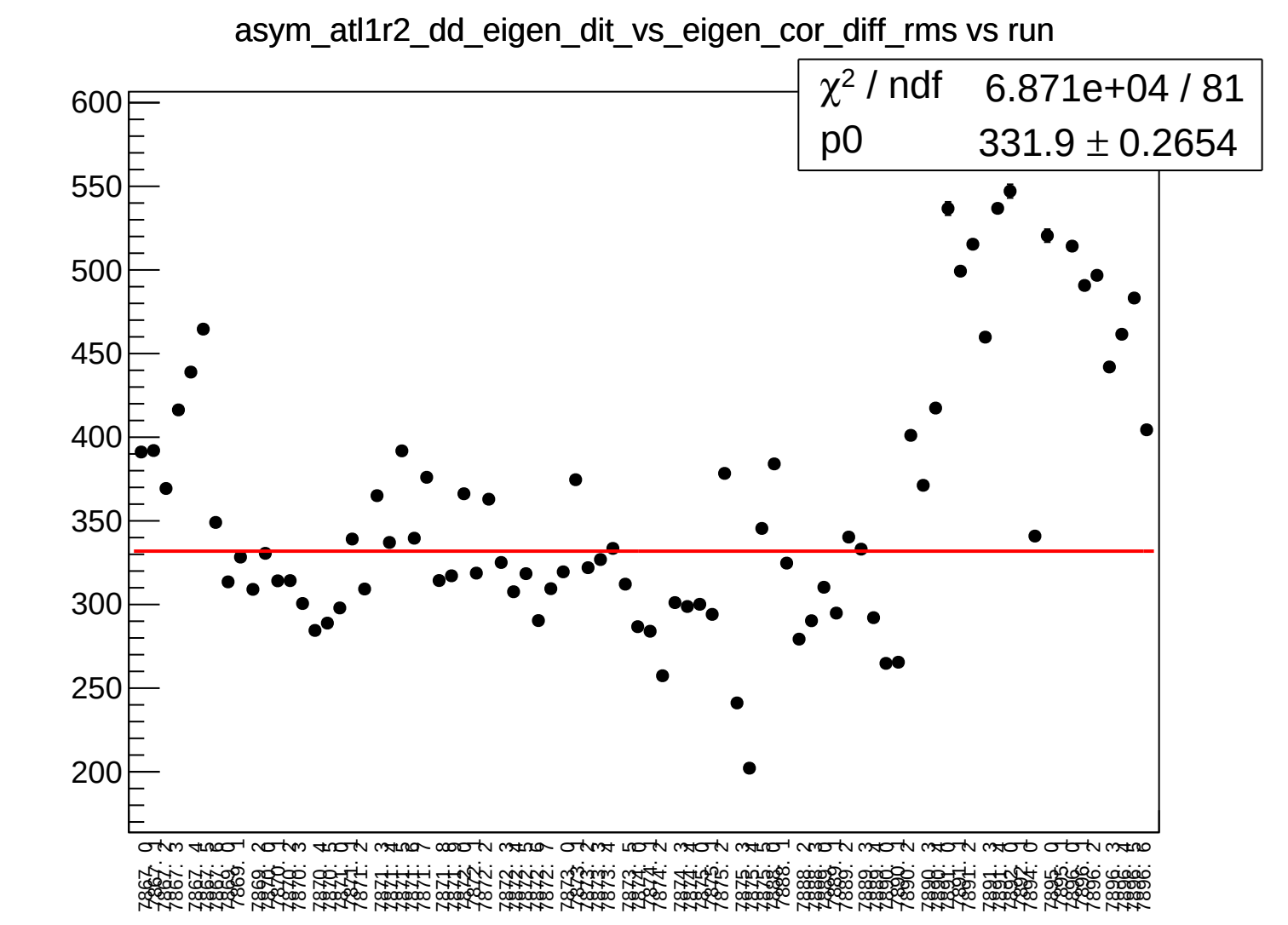

pull1D
Entries 82
Mean −0.01249
Std Dev 0.9753

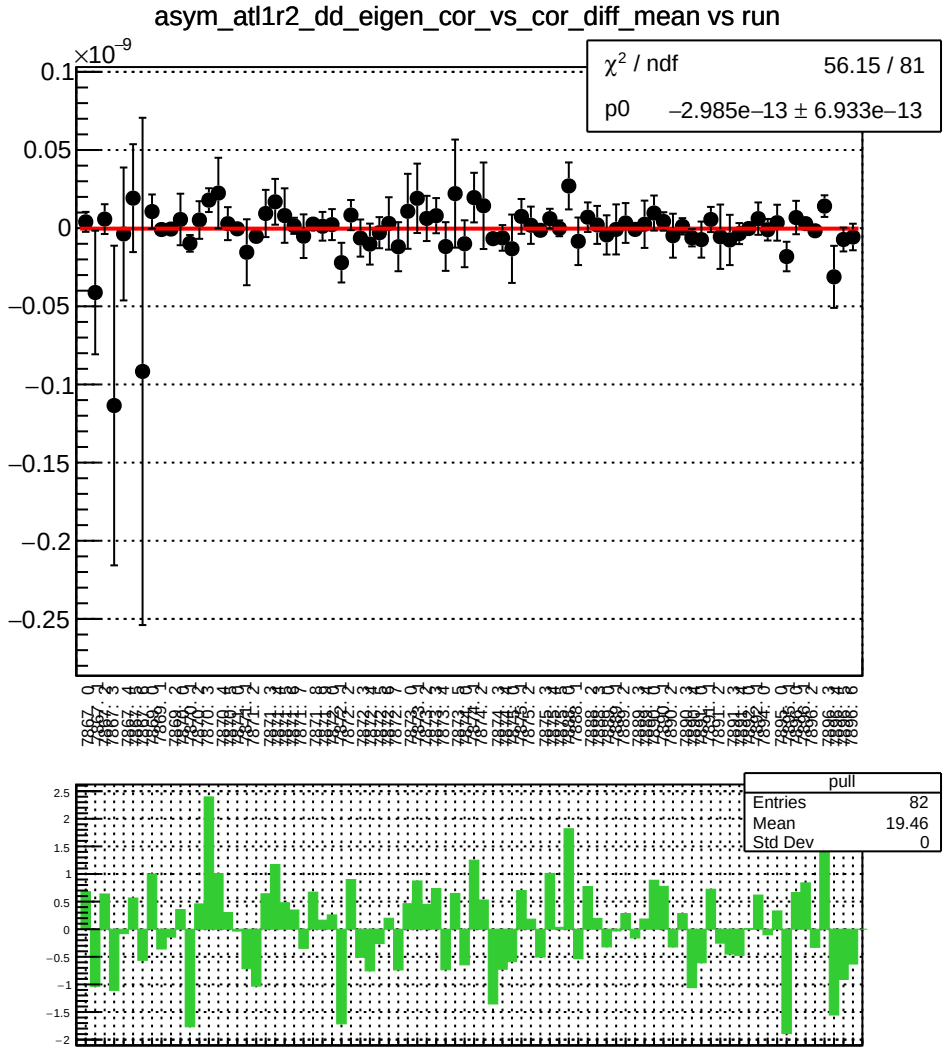

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.46e+04 / 81
p0 0.01298 ± 1.027e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

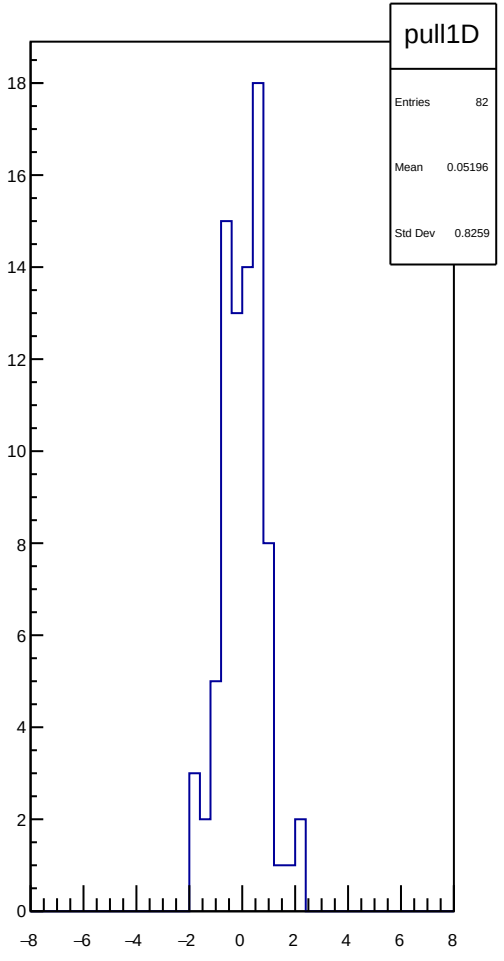

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.17 / 81
p0 0.03169 ± 0.3754
pull
Entries 82
Mean 1526
Std Dev 0
pull1D
Entries 82
Mean −0.00293
Std Dev 0.9511

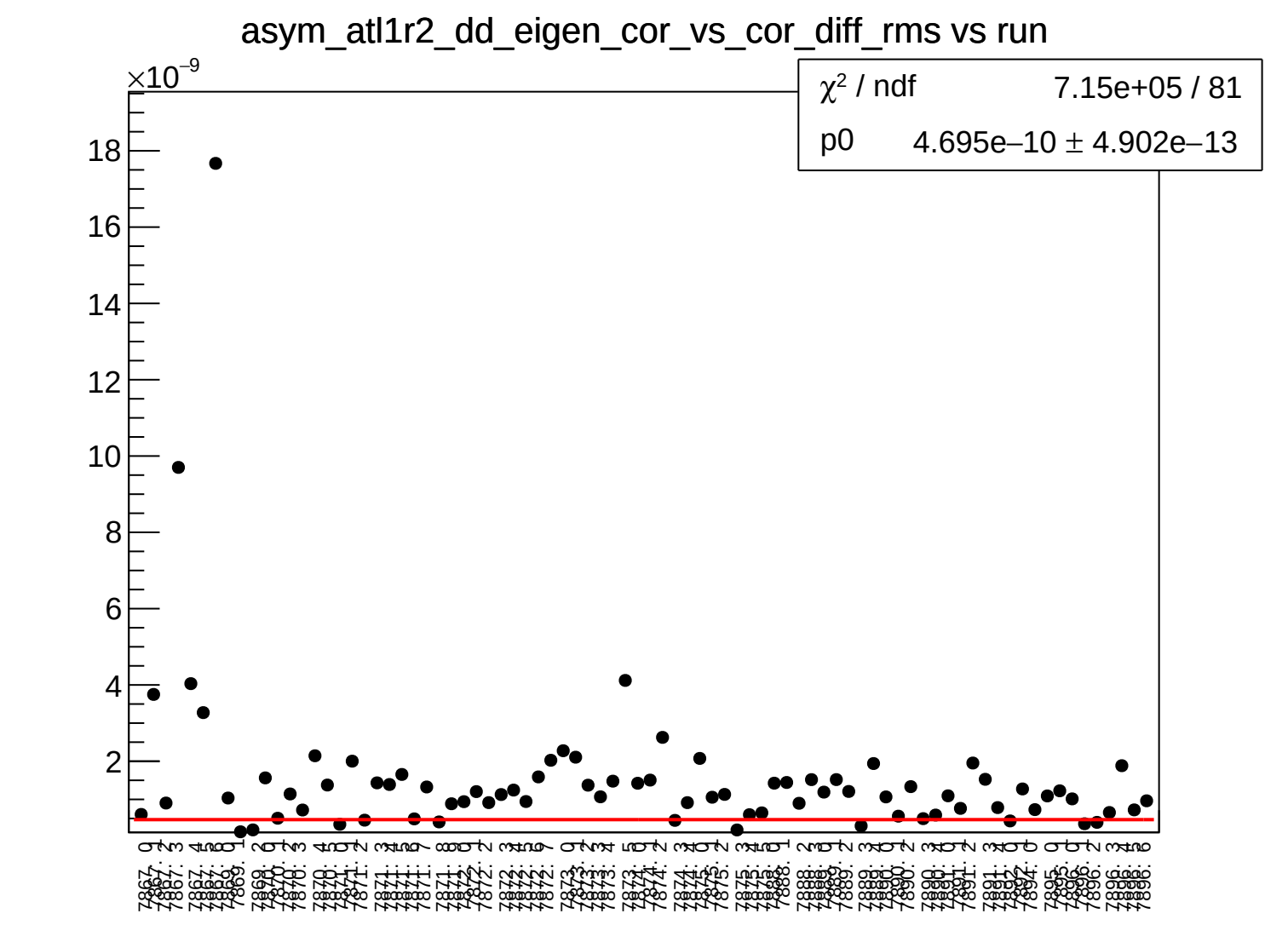

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.871e+04 / 81
p0 331.9 ± 0.2654
600
550
500
450
400
350
300
250
200

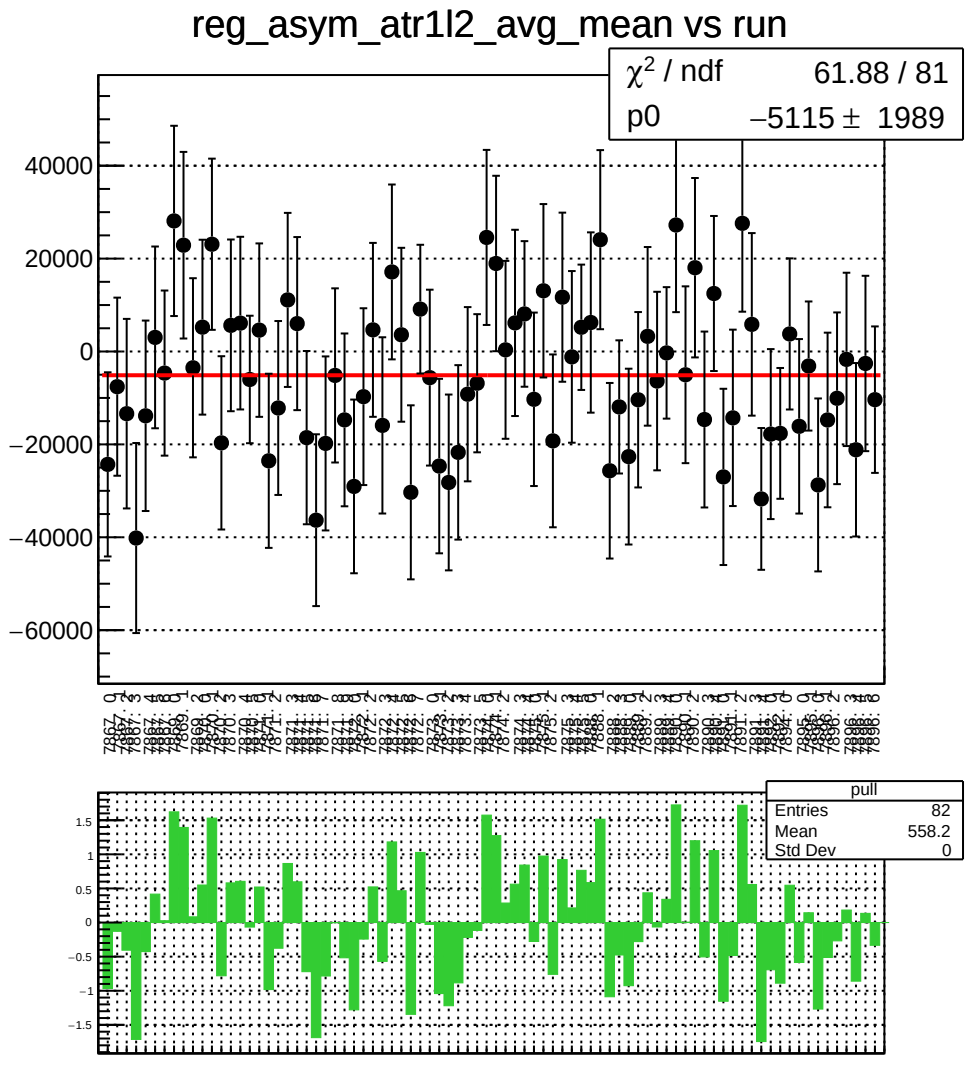

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.17 / 81
p0 0.03169 ± 0.3754
pull
Entries 82
Mean 1526
Std Dev 0
pull1D
Entries 82
Mean −0.00293
Std Dev 0.9511

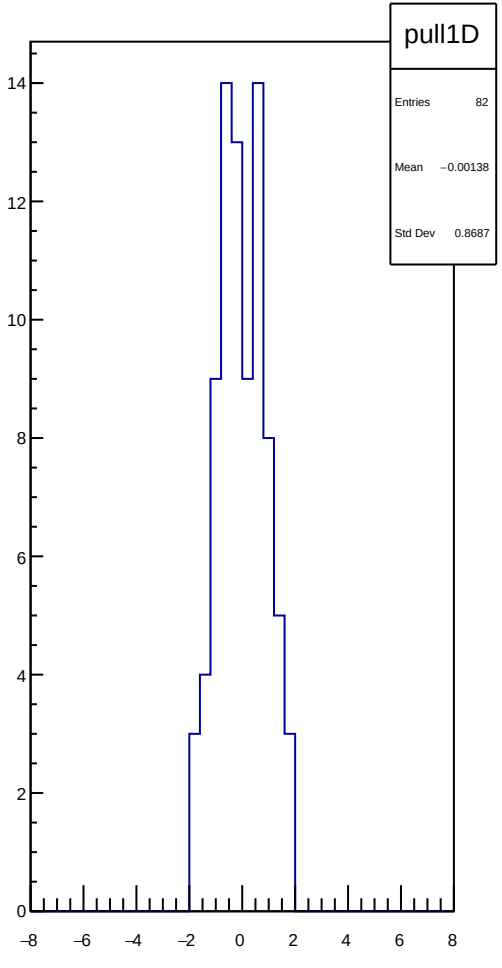

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.871e+04 / 81
p0 331.9 ± 0.2654
600
550
500
450
400
350
300
250
200

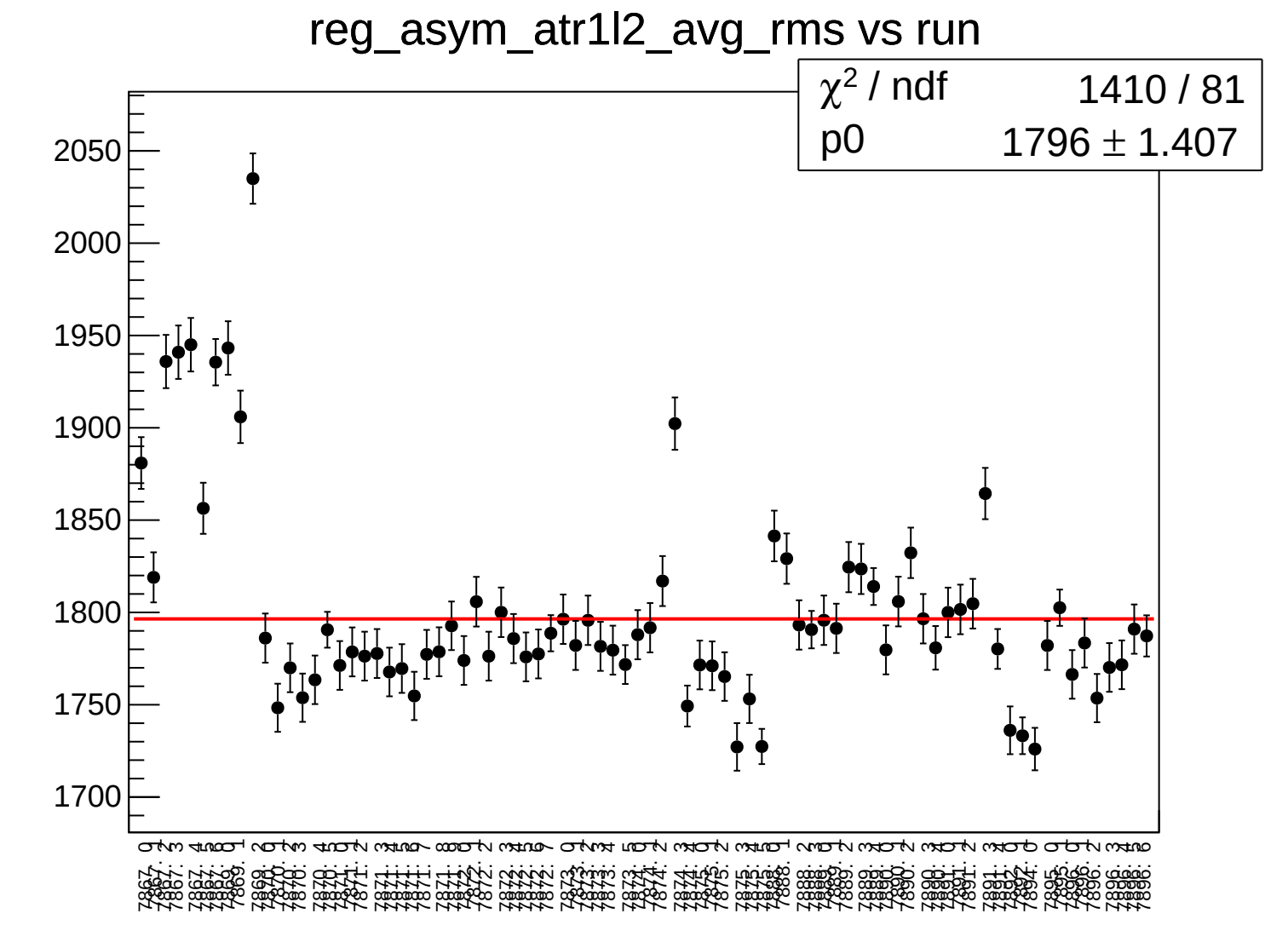

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 56.15 / 81
p0 −2.985e−13 ± 6.933e−13
pull
Entries 82
Mean 19.46
Std Dev 0

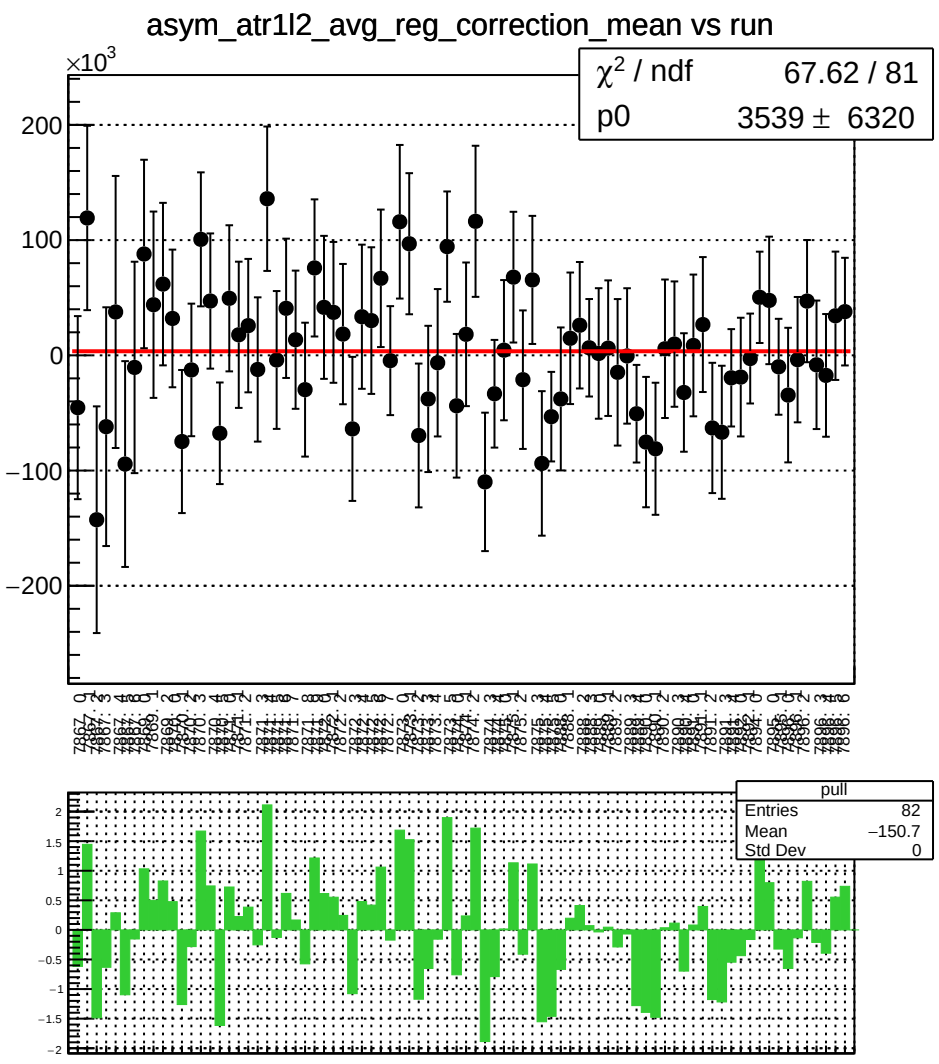

pull1D
Entries 82
Mean 0.05196
Std Dev 0.8259

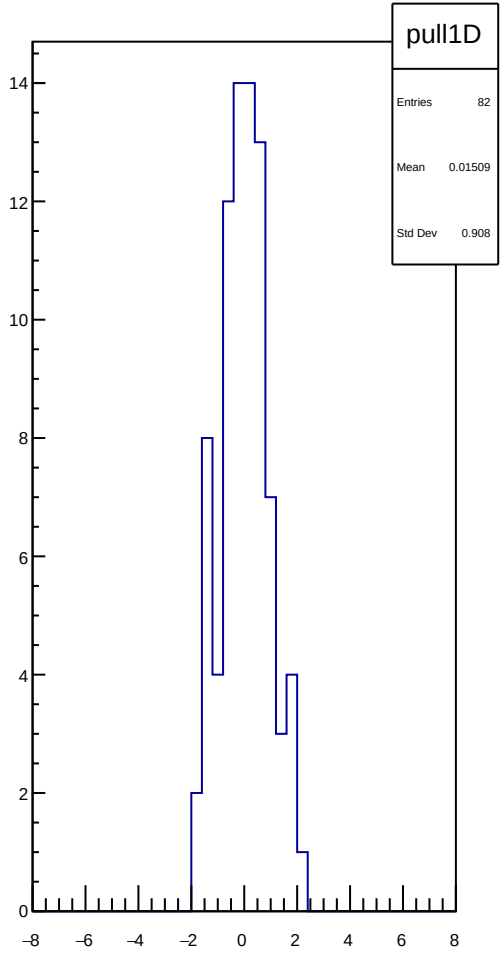

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.15e+05 / 81
p0 4.695e−10 ± 4.902e−13
18
16
14
12
10
8
6
4
2

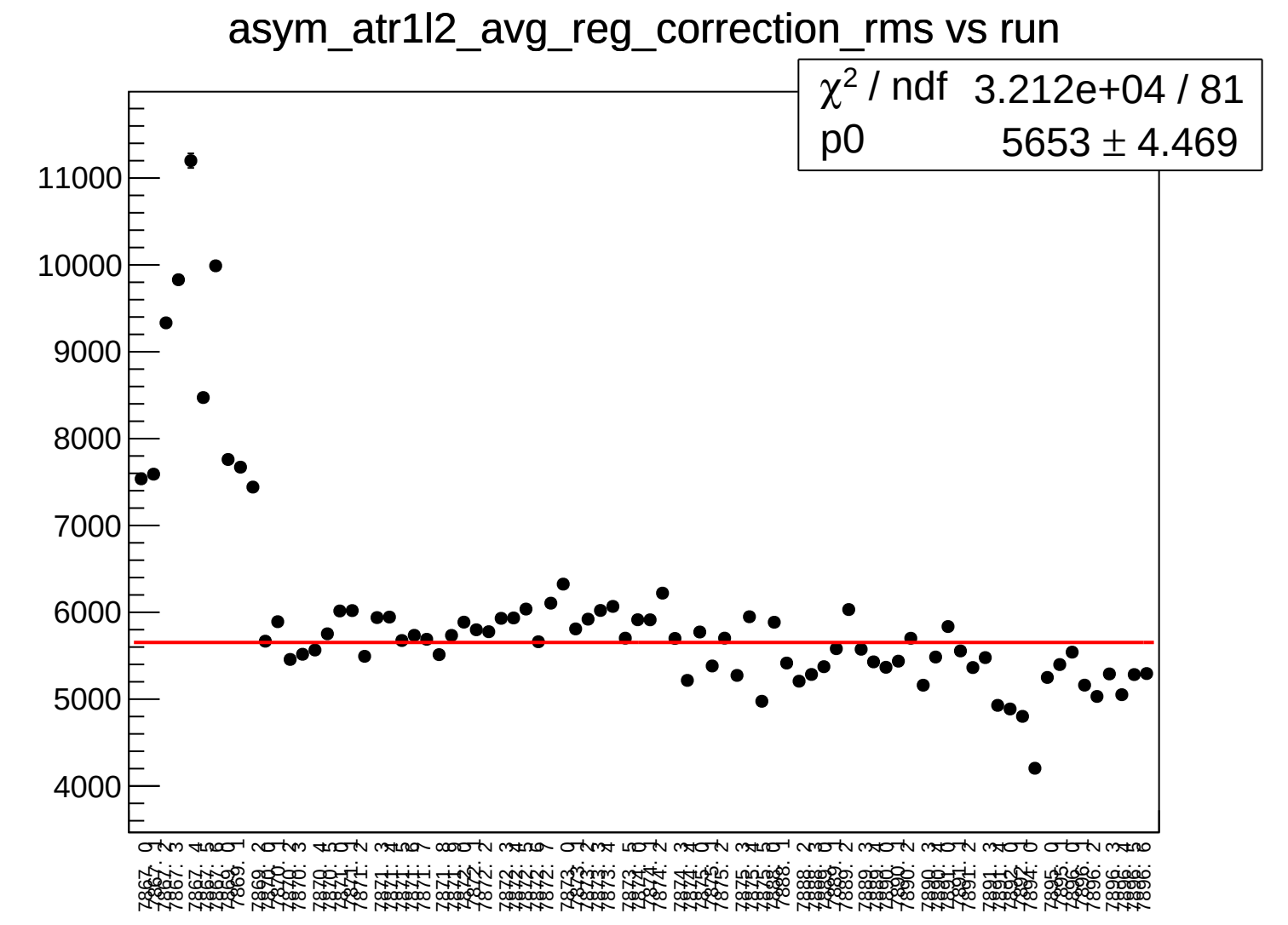

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 61.88 / 81
p0 −5115 ± 1989
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 558.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

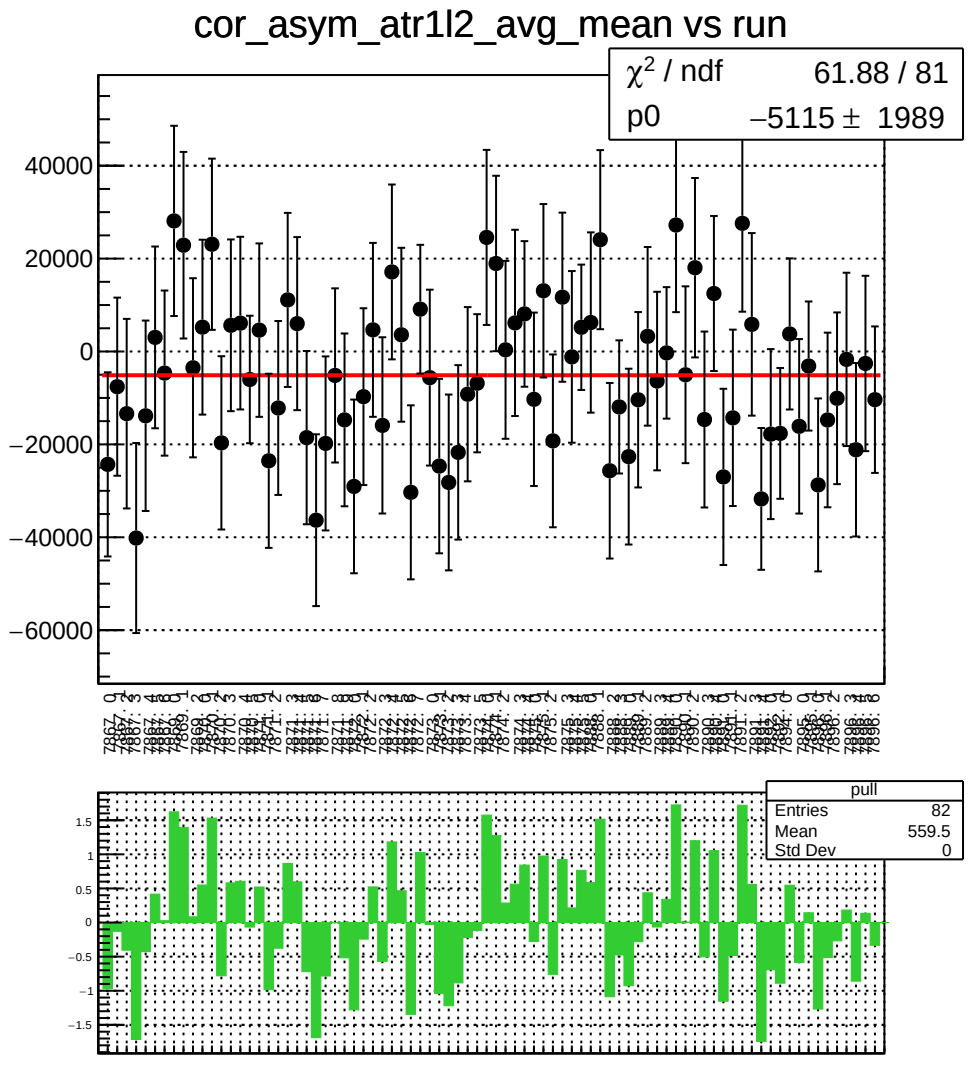

pull1D
Entries 82
Mean −0.00138
Std Dev 0.8687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

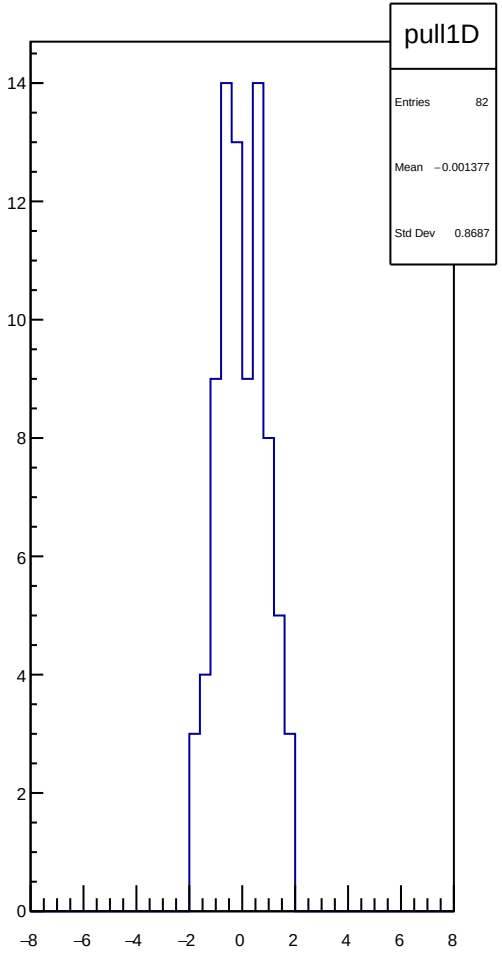

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 1410 / 81
p0 1796 ± 1.407
2050
2000
1950
1900
1850
1800
1750
1700

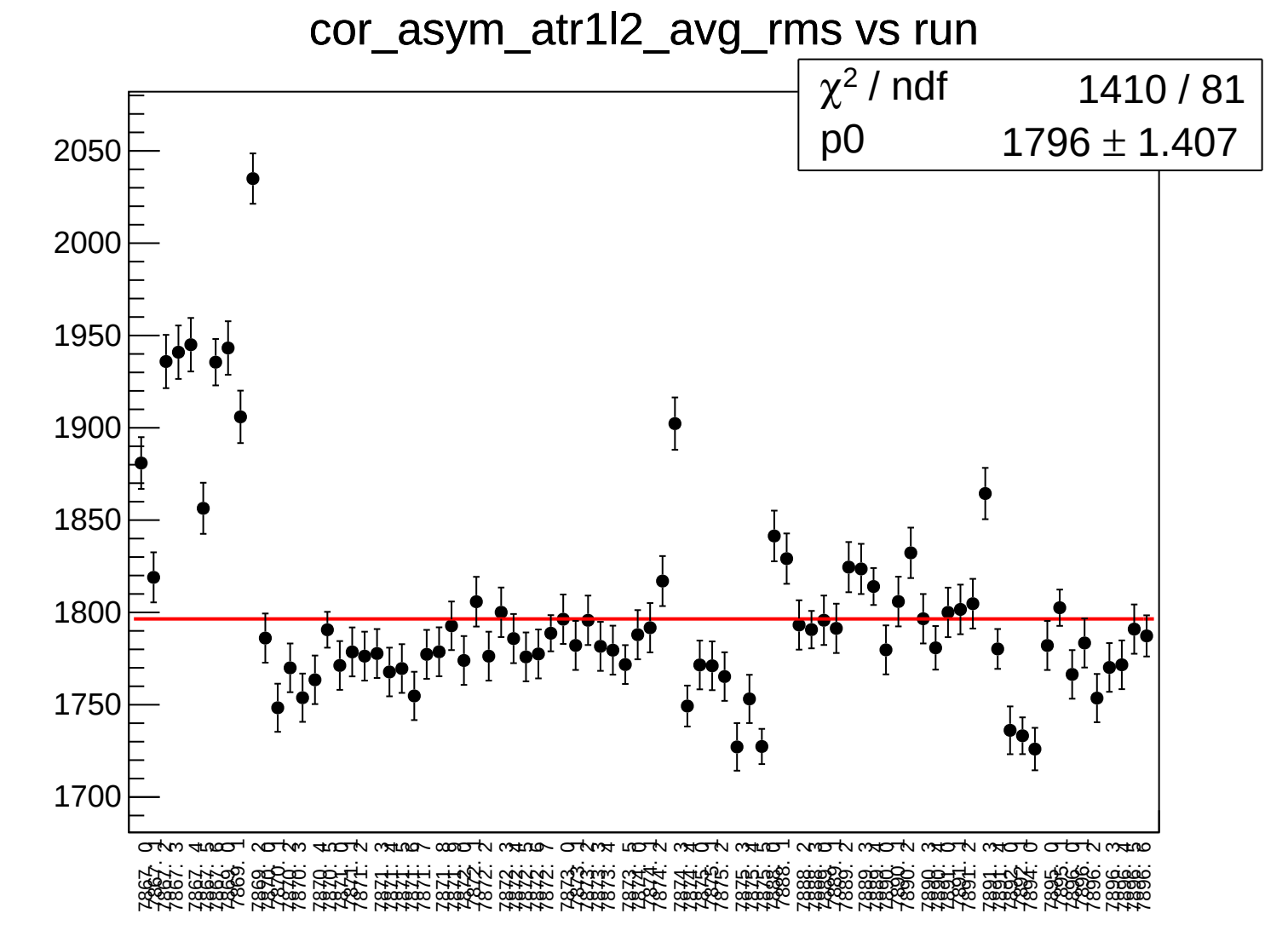

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 67.62 / 81
p0 3539 ± 6320
200
100
0
−100
−200
pull
Entries 82
Mean −150.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

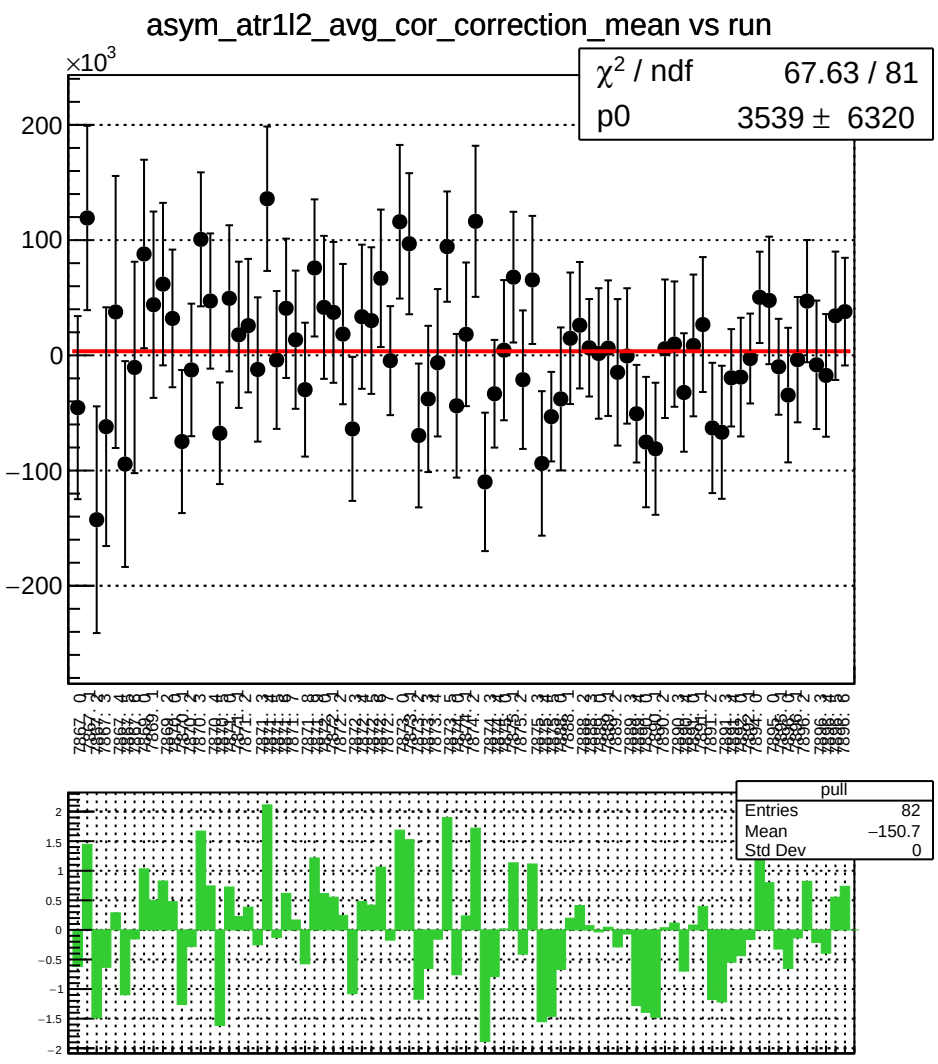

pull1D
Entries 82
Mean 0.01509
Std Dev 0.908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

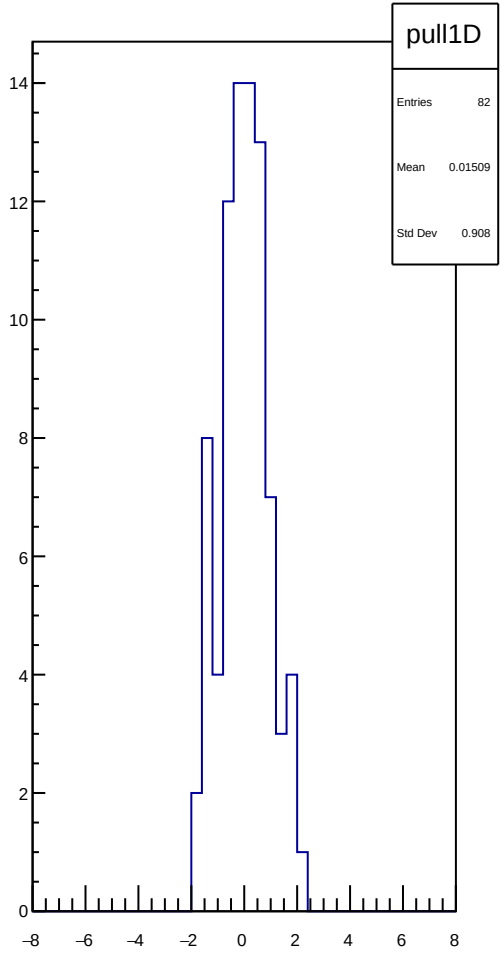

asym_atr1l2_avg_reg_correction_rms vs run
χ^2 / ndf 3.212e+04 / 81
p0 5653 ± 4.469
11000
10000
9000
8000
7000
6000
5000
4000

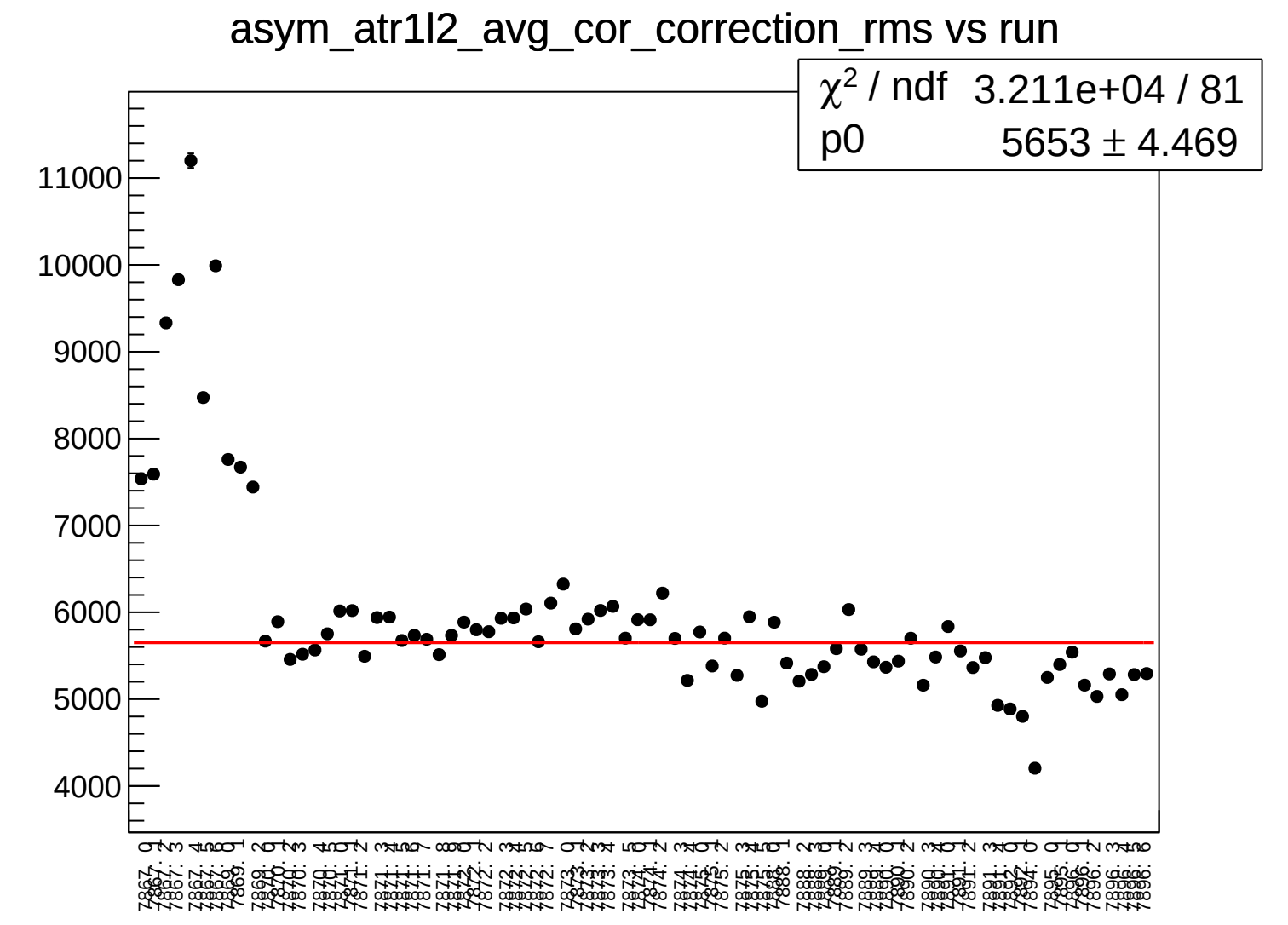

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 61.88 / 81
p0 −5115 ± 1989
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 559.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

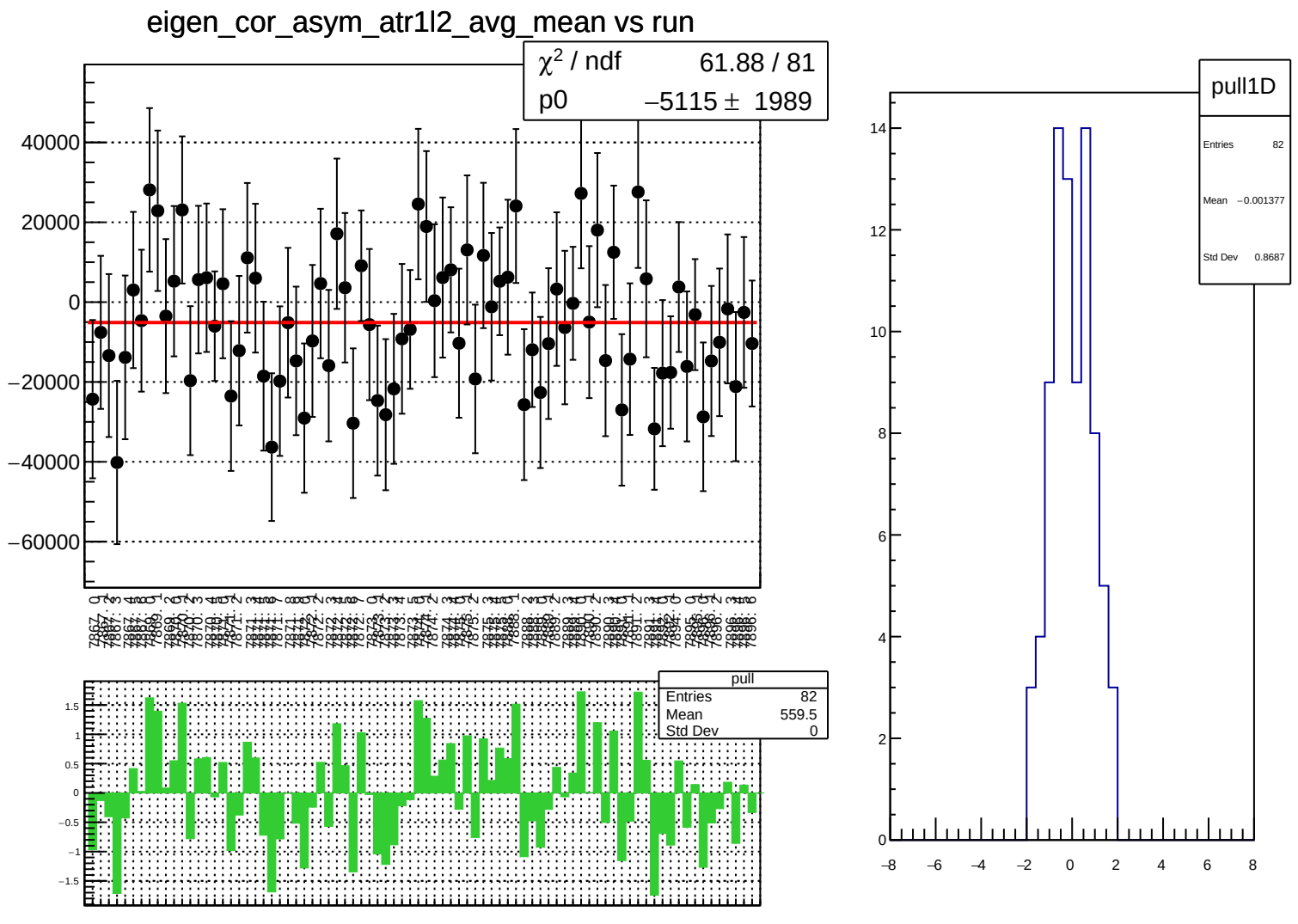

pull1D
Entries 82
Mean −0.001377
Std Dev 0.8687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

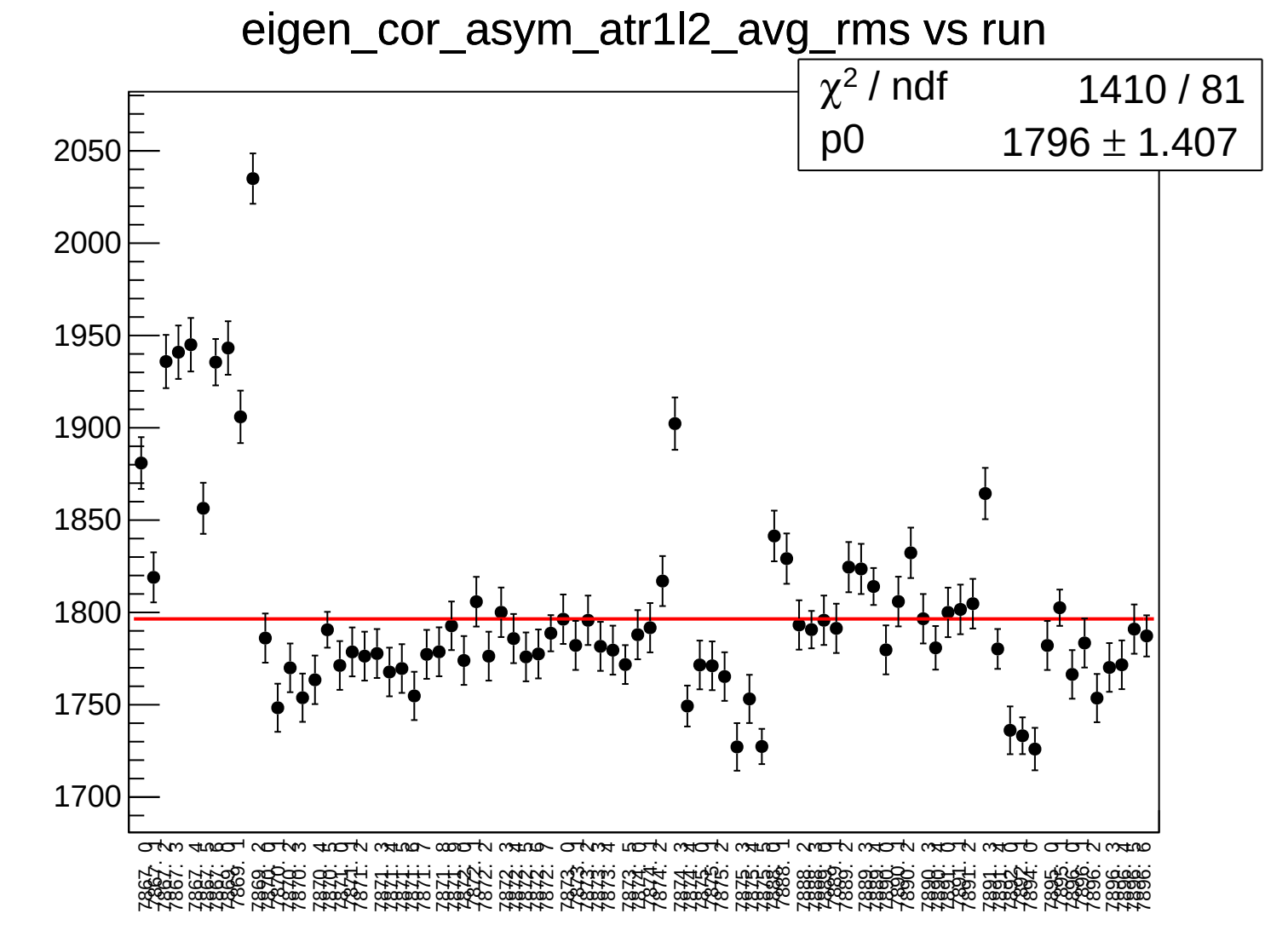

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1410 / 81
p0 1796 ± 1.407
2050
2000
1950
1900
1850
1800
1750
1700

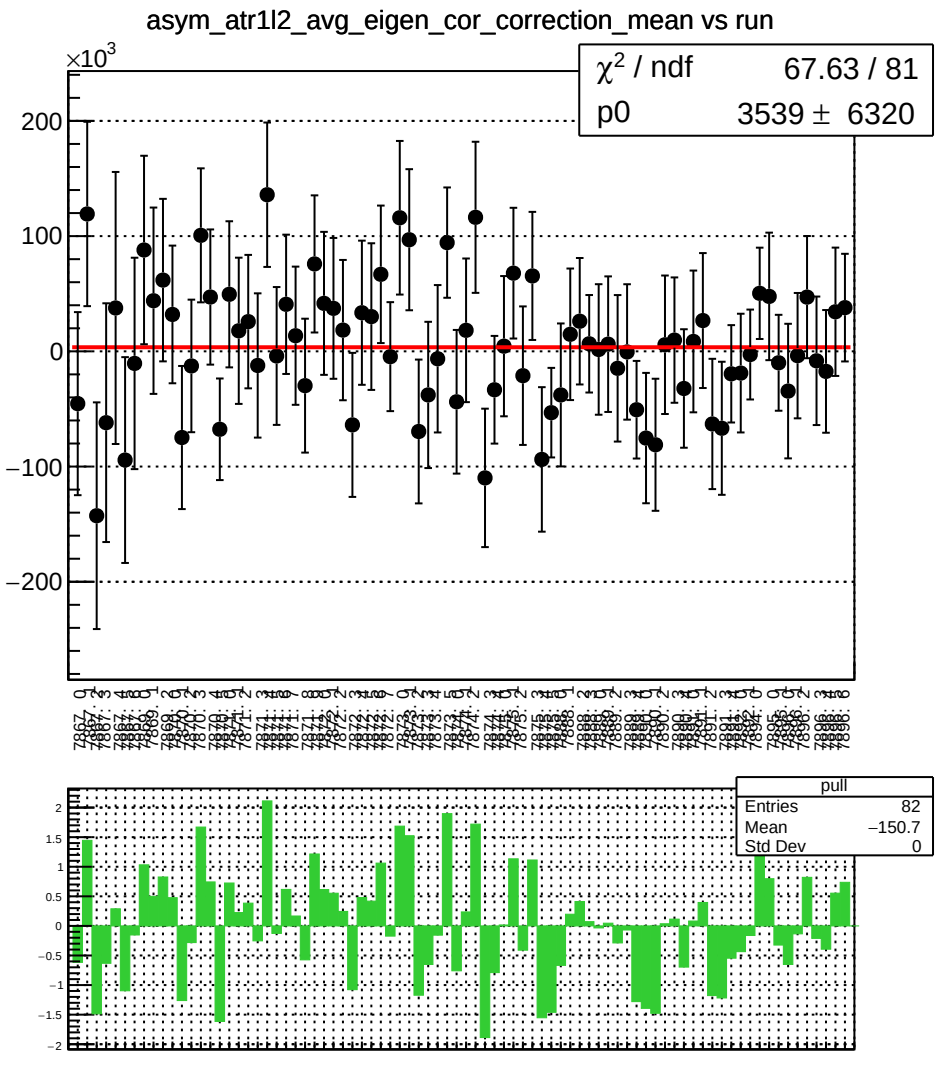

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.63 / 81
p0 3539 ± 6320
200
100
0
−100
−200
pull
Entries 82
Mean −150.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

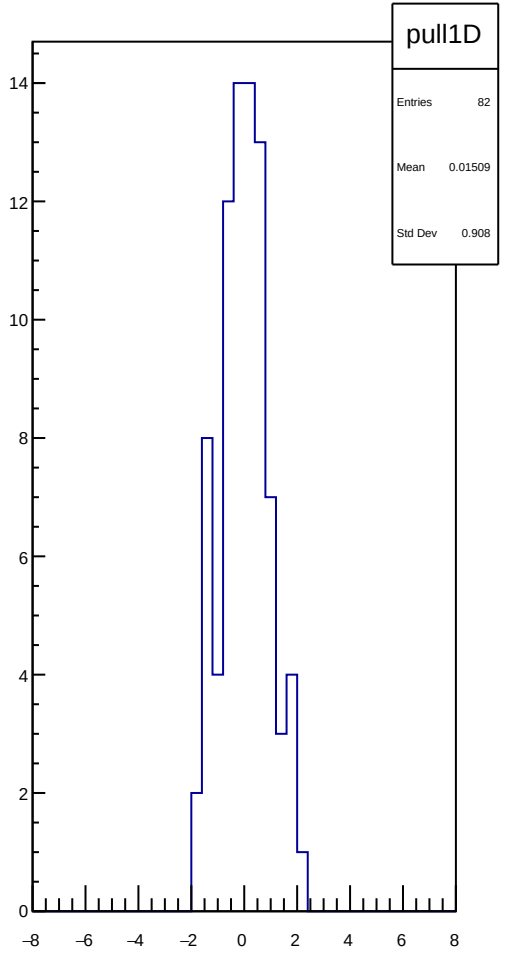

pull1D
Entries 82
Mean 0.01509
Std Dev 0.908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

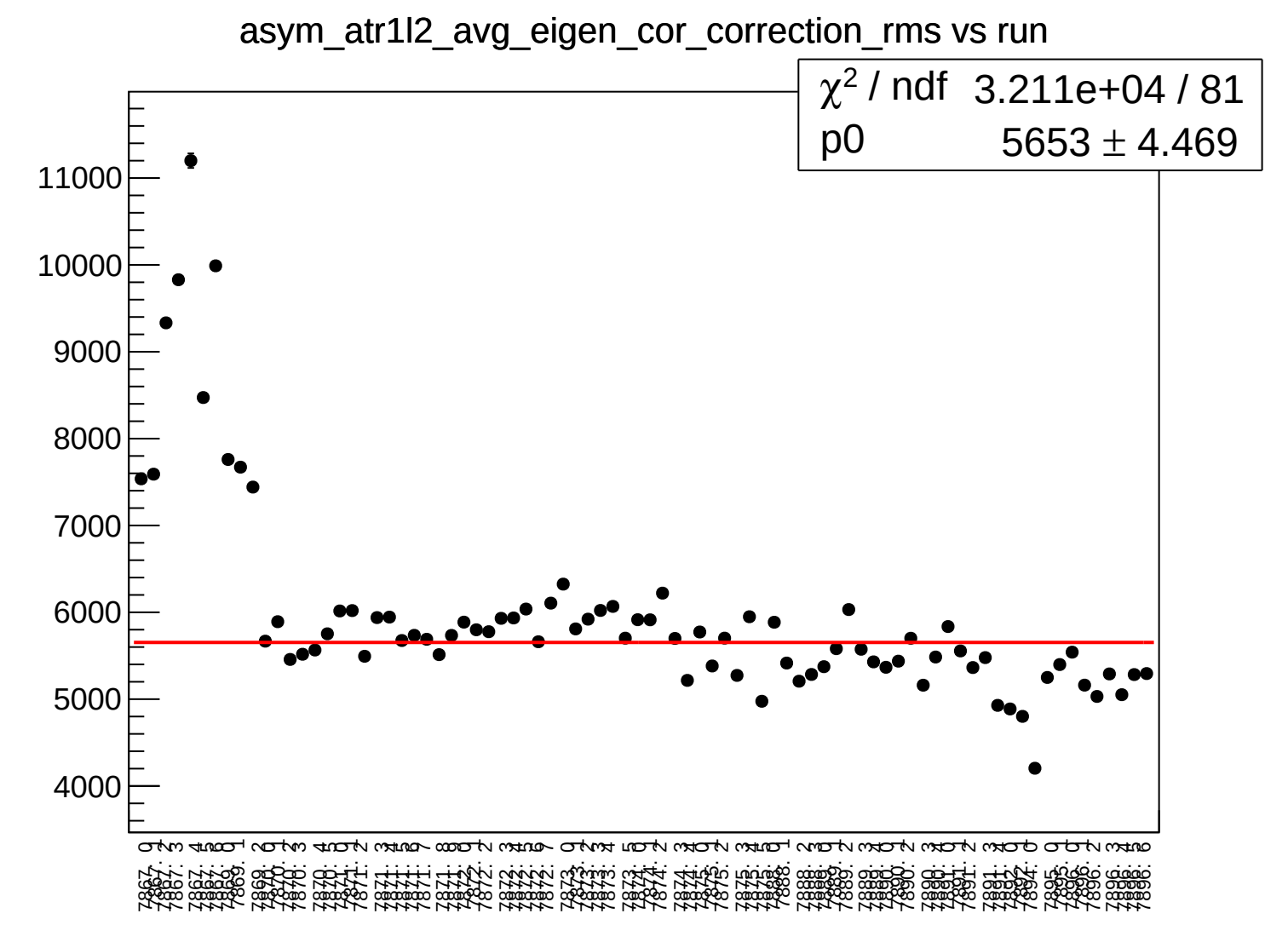

asym_atr1l2_avg_cor_correction_rms vs run
χ^2 / ndf 3.211e+04 / 81
p0 5653 ± 4.469
11000
10000
9000
8000
7000
6000
5000
4000

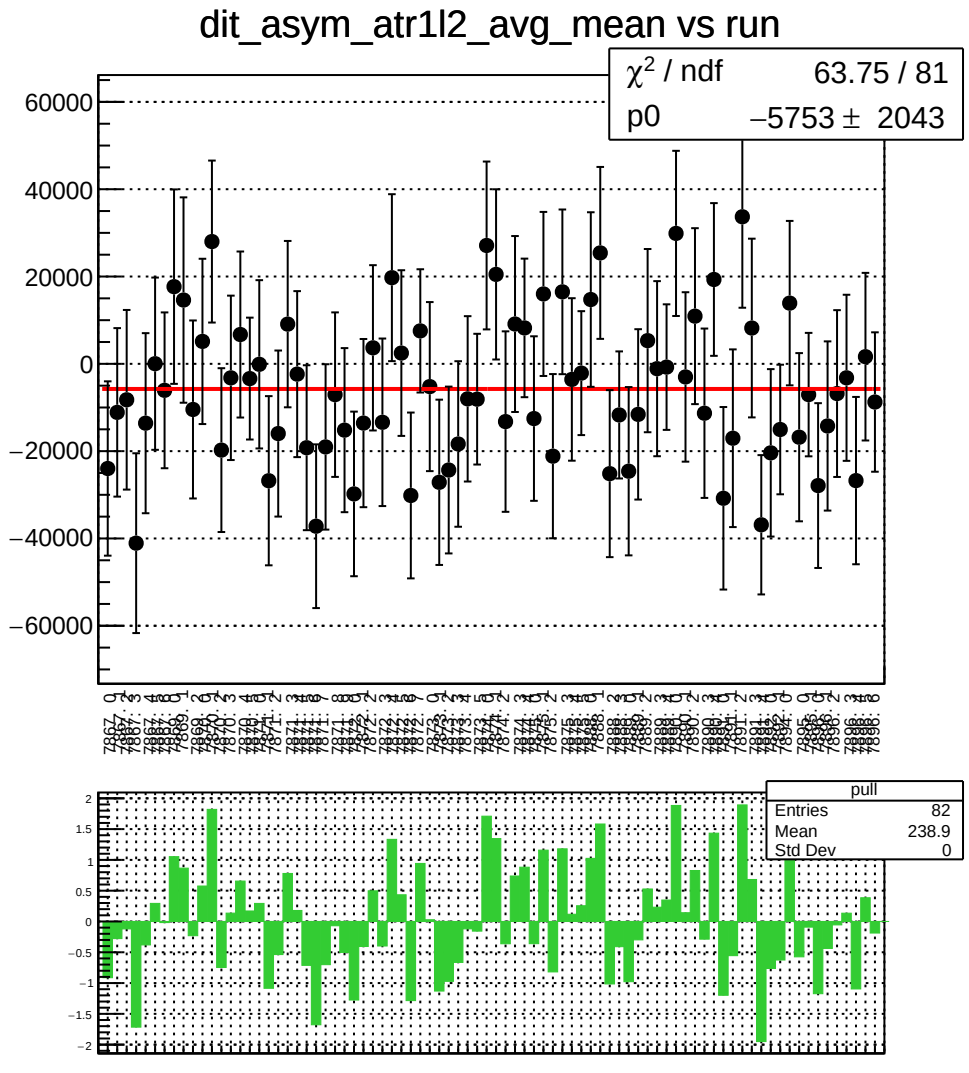

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 61.88 / 81
p0 −5115 ± 1989
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 559.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.001377
Std Dev 0.8687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

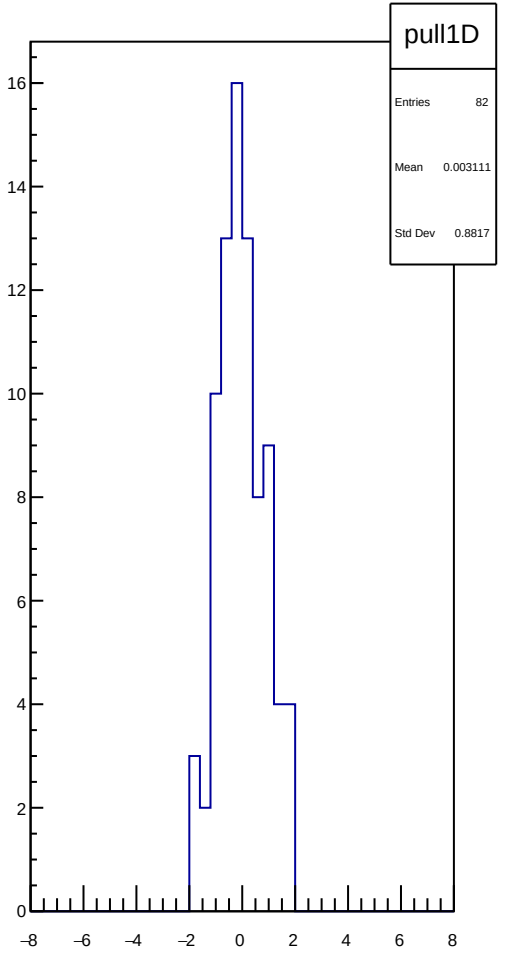

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1410 / 81
p0 1796 ± 1.407
2050
2000
1950
1900
1850
1800
1750
1700

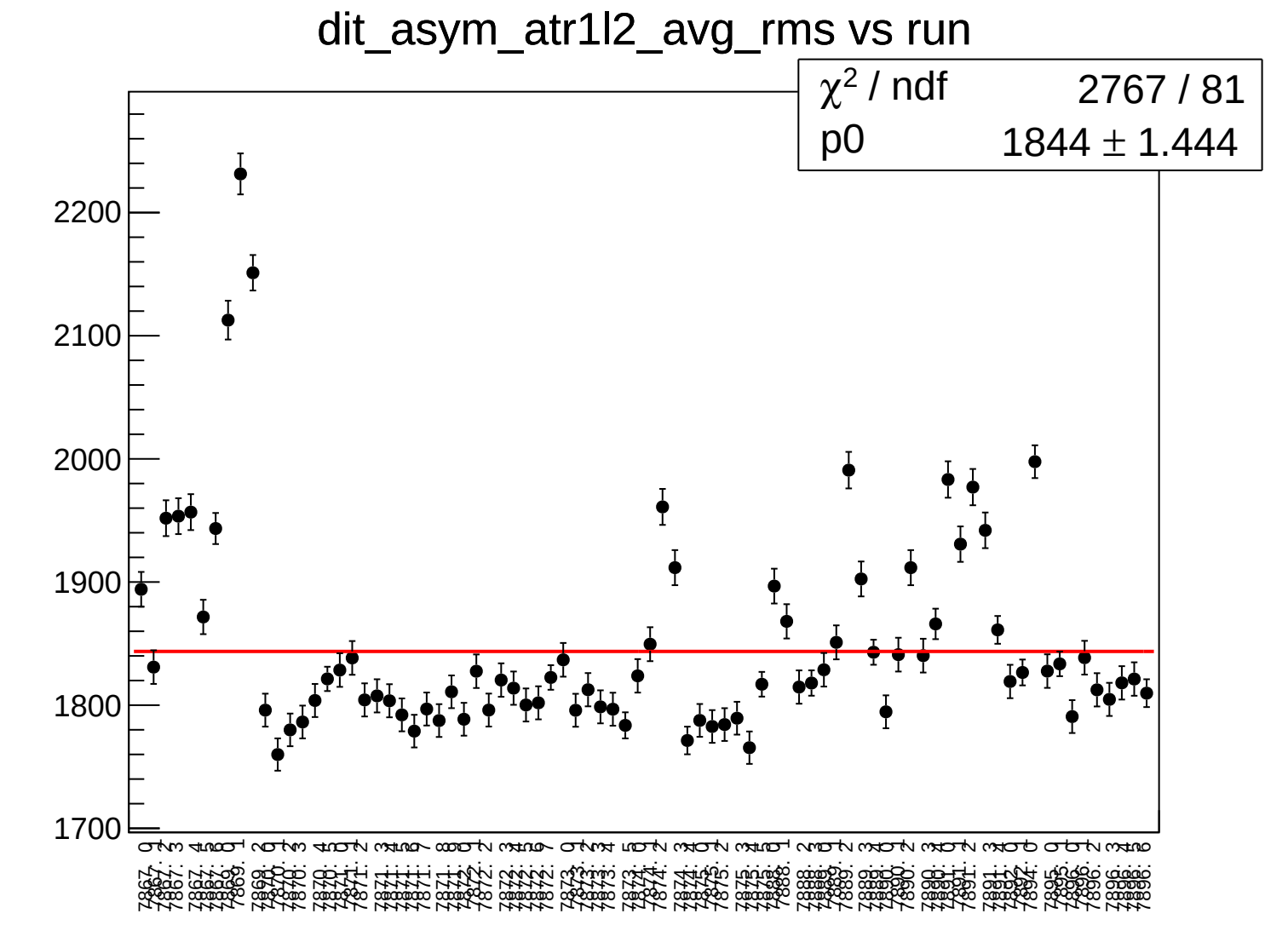

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.63 / 81
p0 3539 ± 6320
200
100
0
−100
−200
pull
Entries 82
Mean −150.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

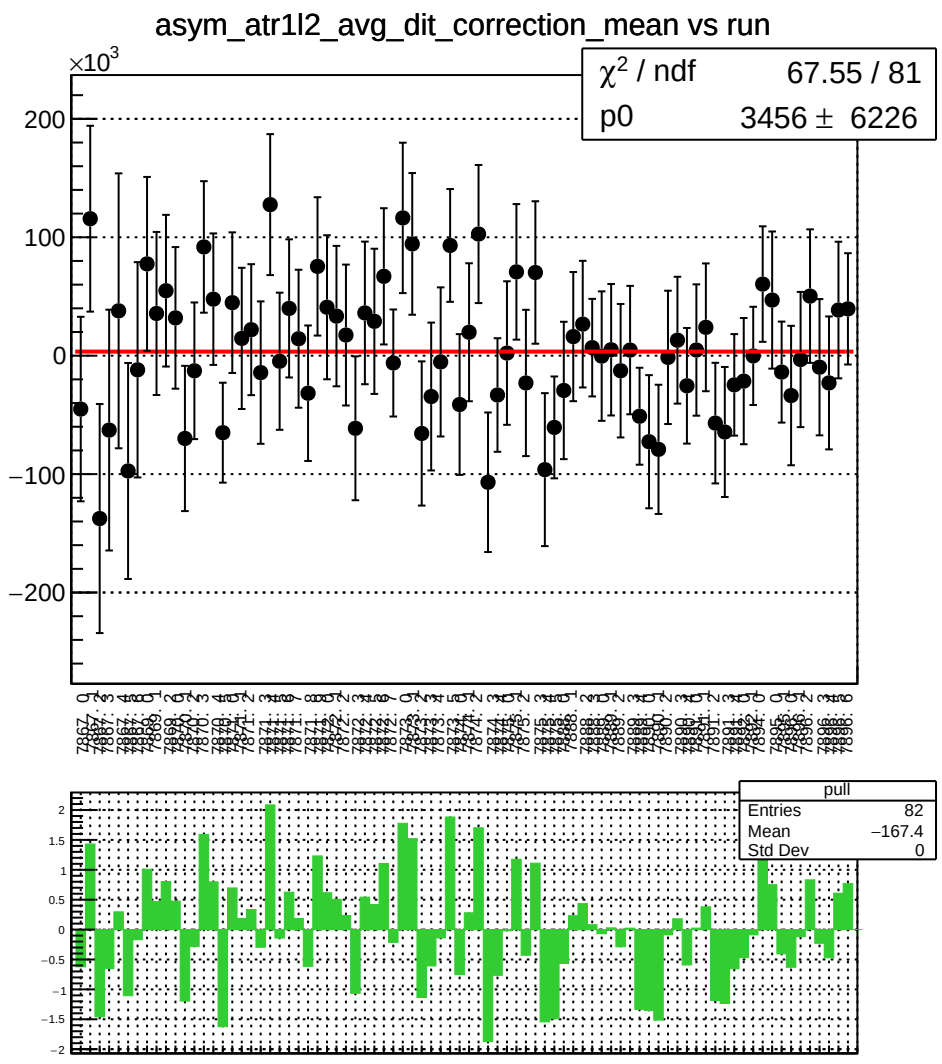

pull1D
Entries 82
Mean 0.01509
Std Dev 0.908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

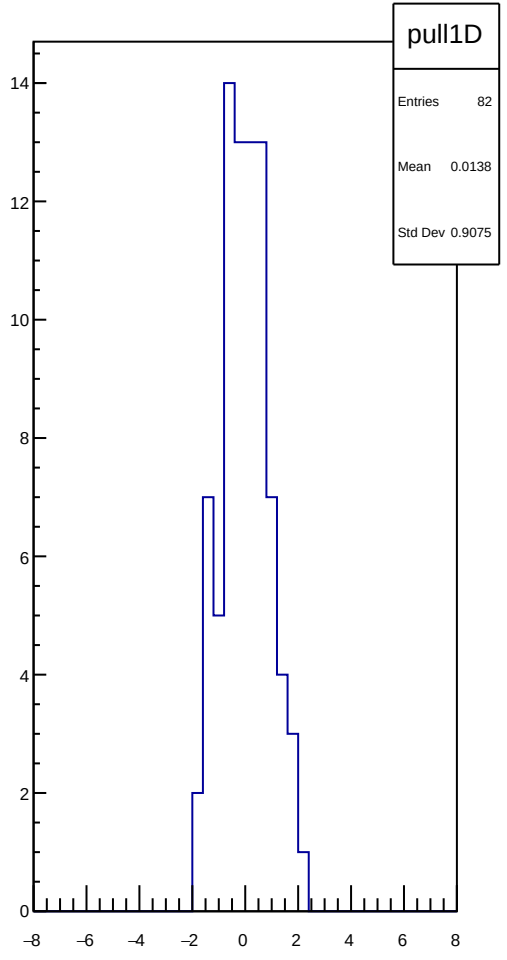

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.211e+04 / 81
p0 5653 ± 4.469
11000
10000
9000
8000
7000
6000
5000
4000

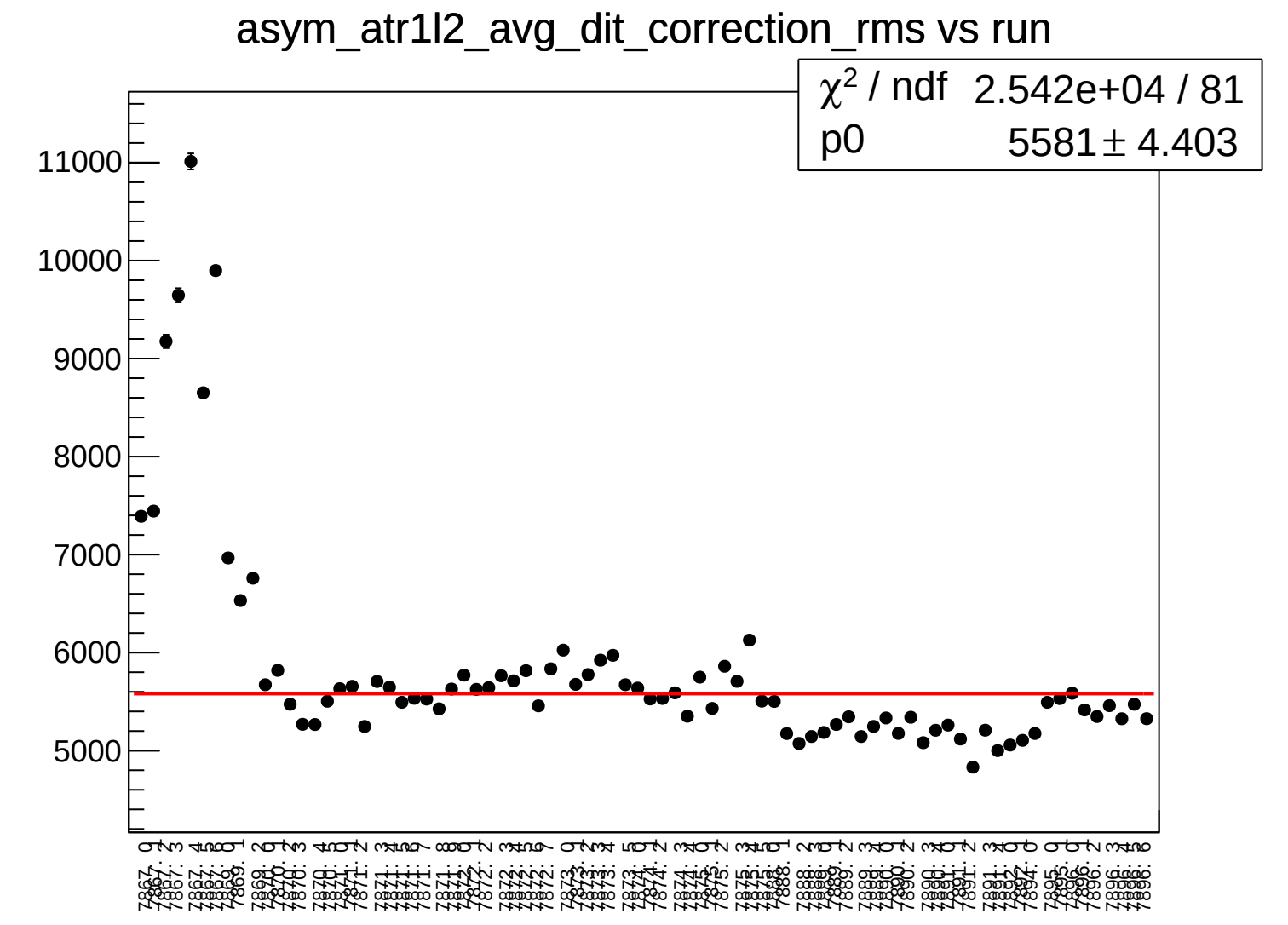

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 63.75 / 81
p0 −5753 ± 2043
pull
Entries 82
Mean 238.9
Std Dev 0

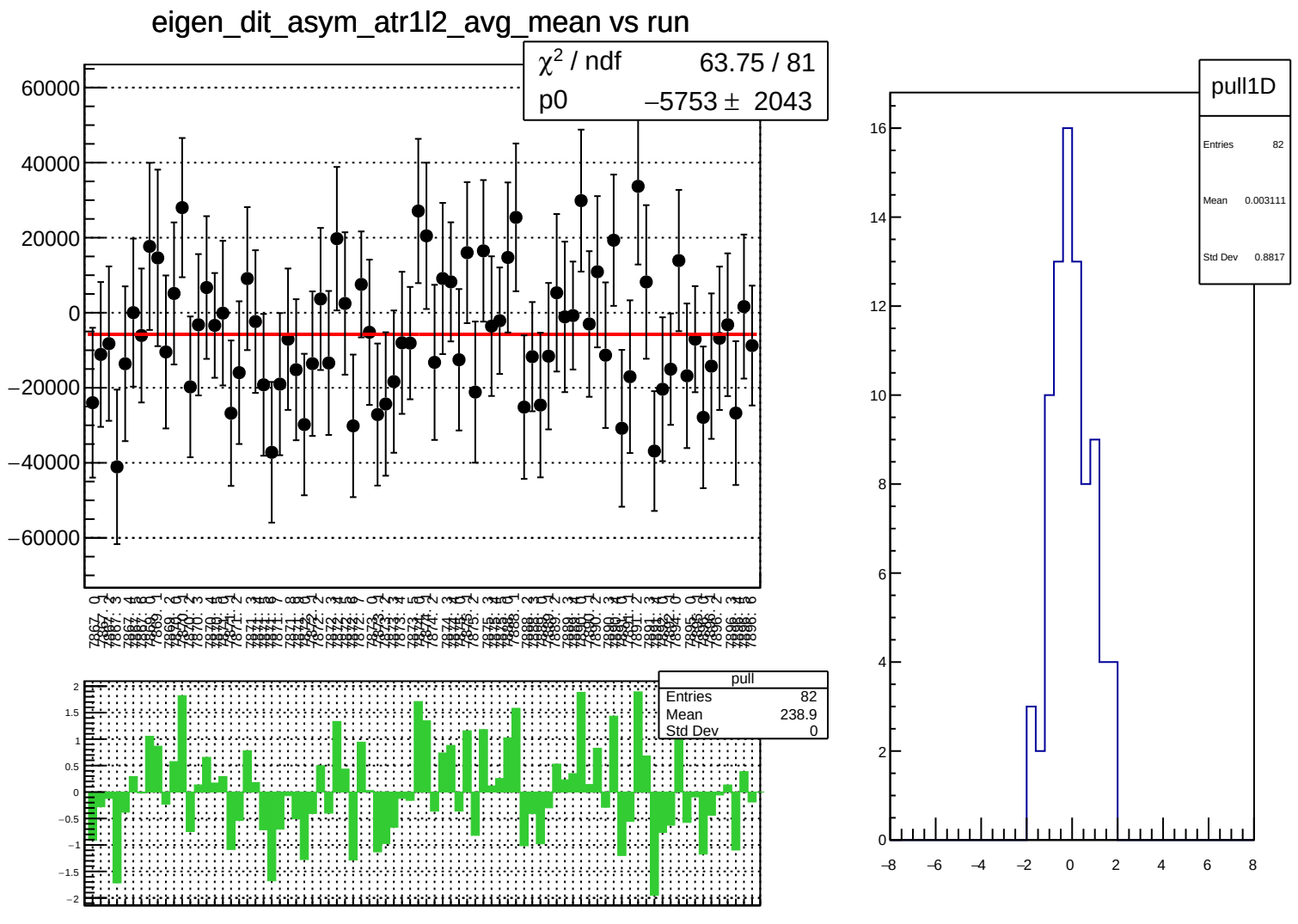

pull1D
Entries 82
Mean 0.003111
Std Dev 0.8817

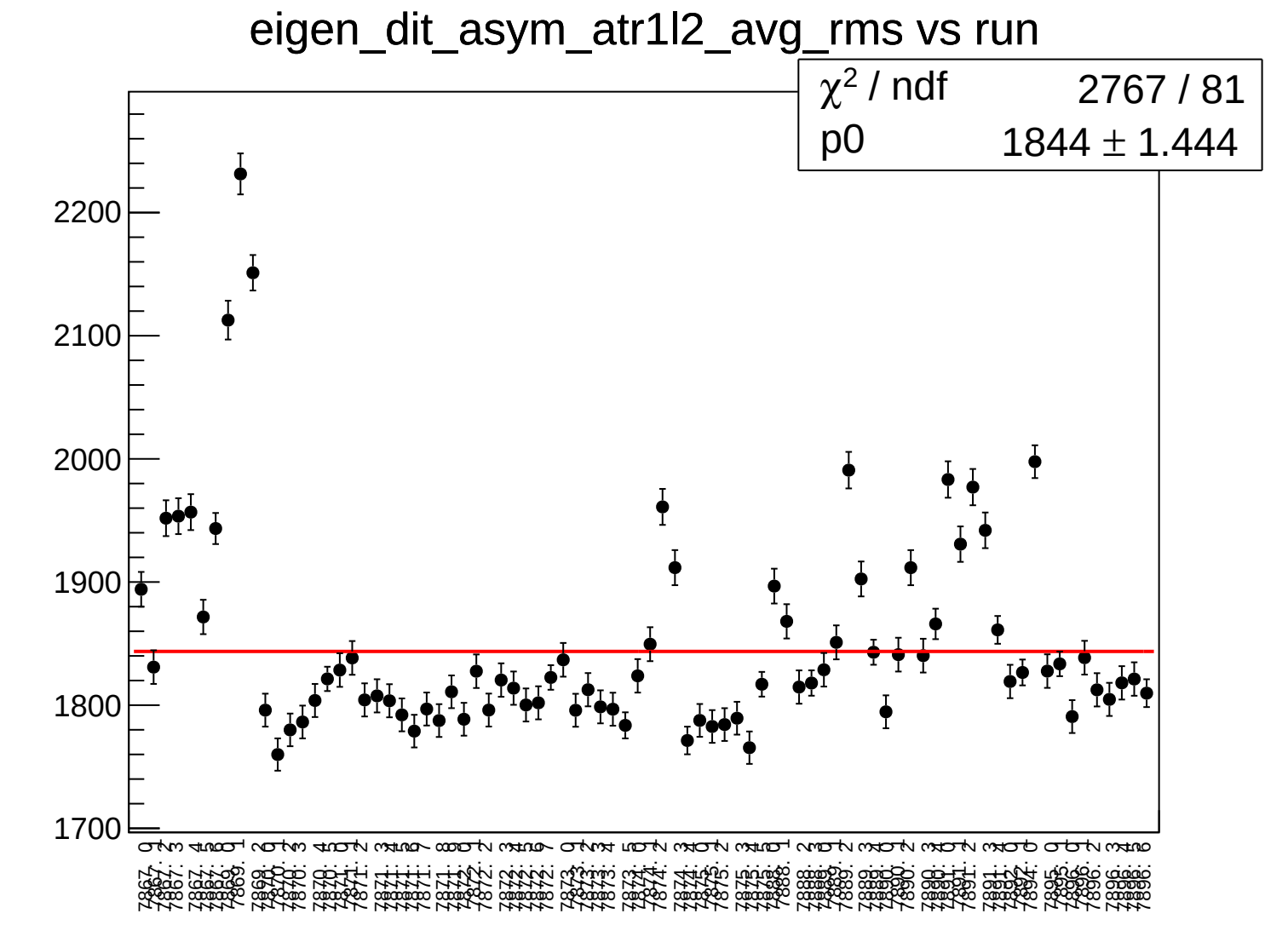

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2767 / 81
p0 1844 ± 1.444
2200
2100
2000
1900
1800
1700

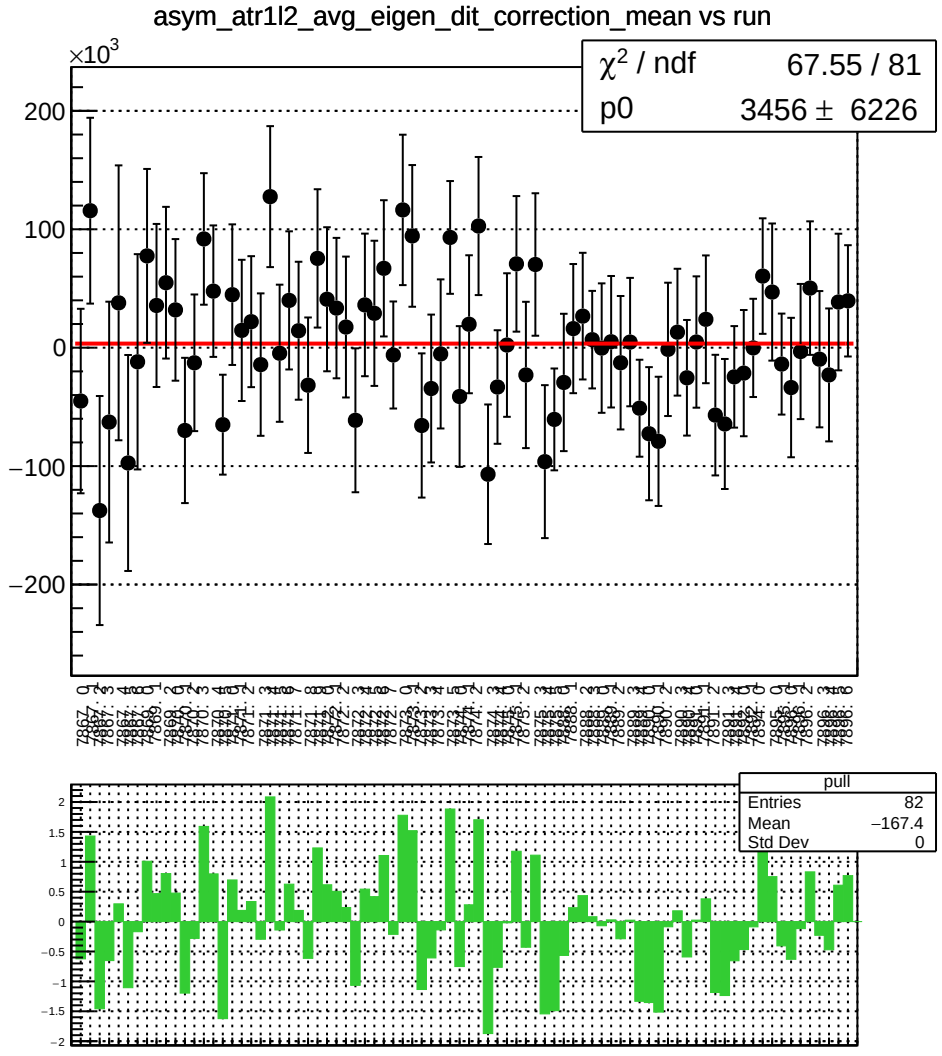

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.55 / 81
p0 3456 ± 6226
200
100
0
−100
−200
pull
Entries 82
Mean −167.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

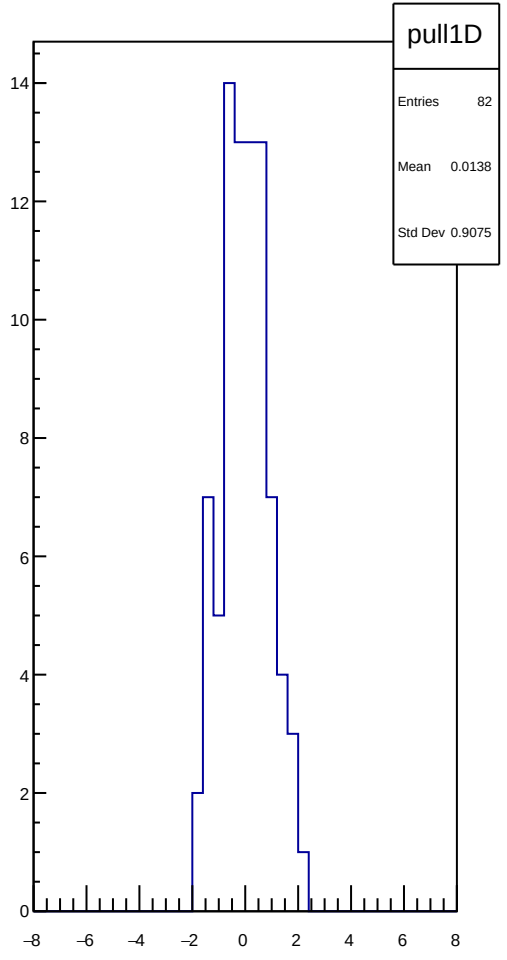

pull1D
Entries 82
Mean 0.0138
Std Dev 0.9075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

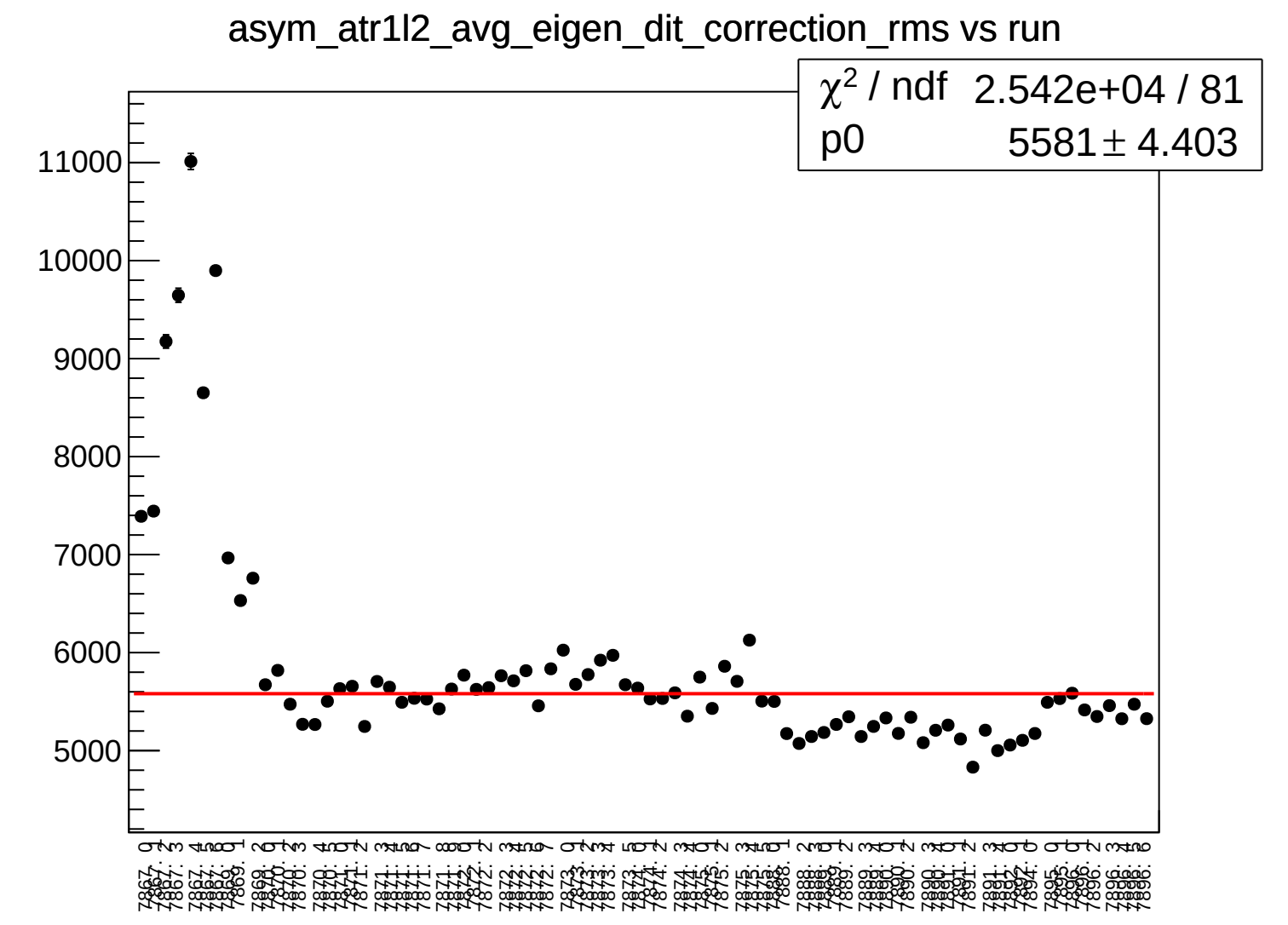

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2.542e+04 / 81
p0 5581 ± 4.403
11000
10000
9000
8000
7000
6000
5000

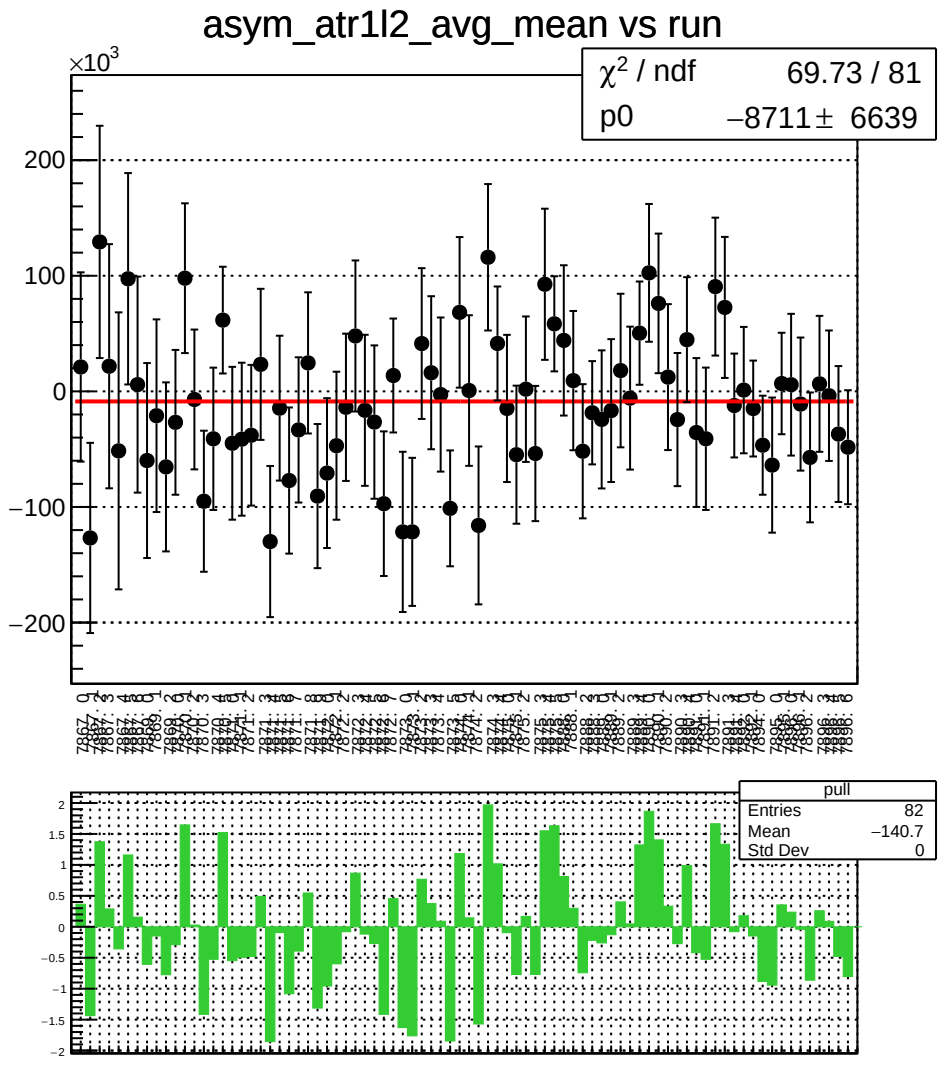

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 63.75 / 81
p0 −5753 ± 2043
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 238.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.003111
Std Dev 0.8817
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

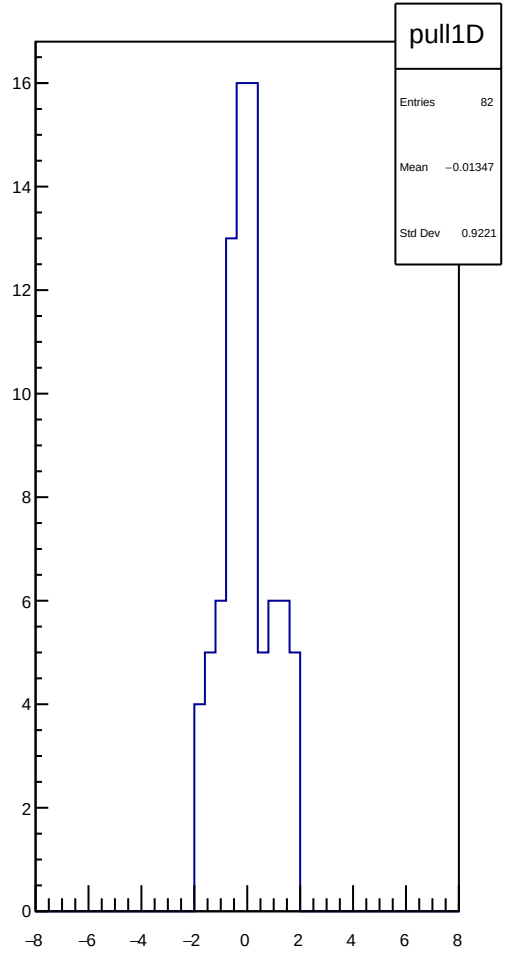

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2767 / 81
p0 1844 ± 1.444
2200
2100
2000
1900
1800
1700

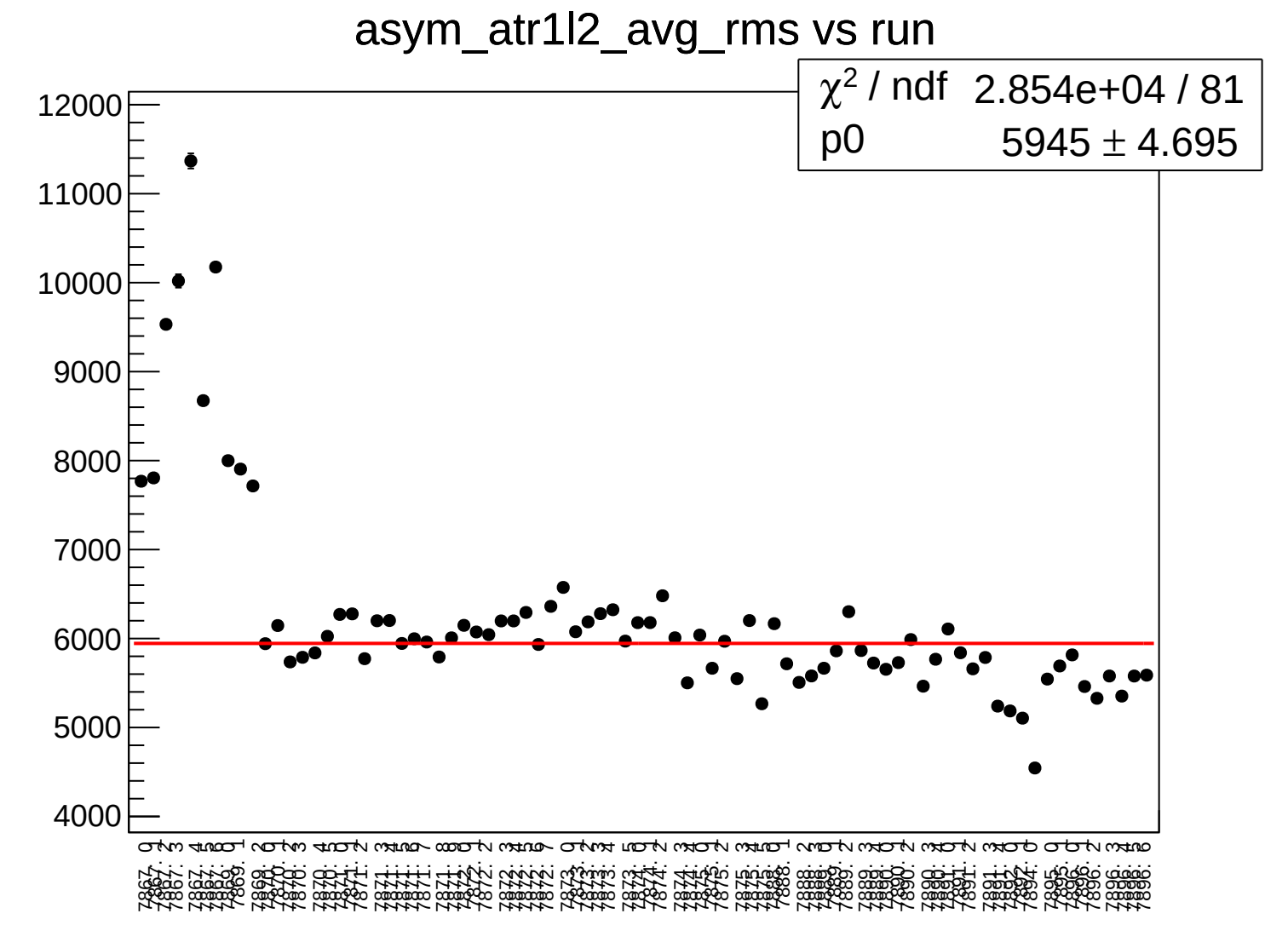

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 67.55 / 81
p0 3456 ± 6226
200
100
0
−100
−200
pull
Entries 82
Mean −167.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

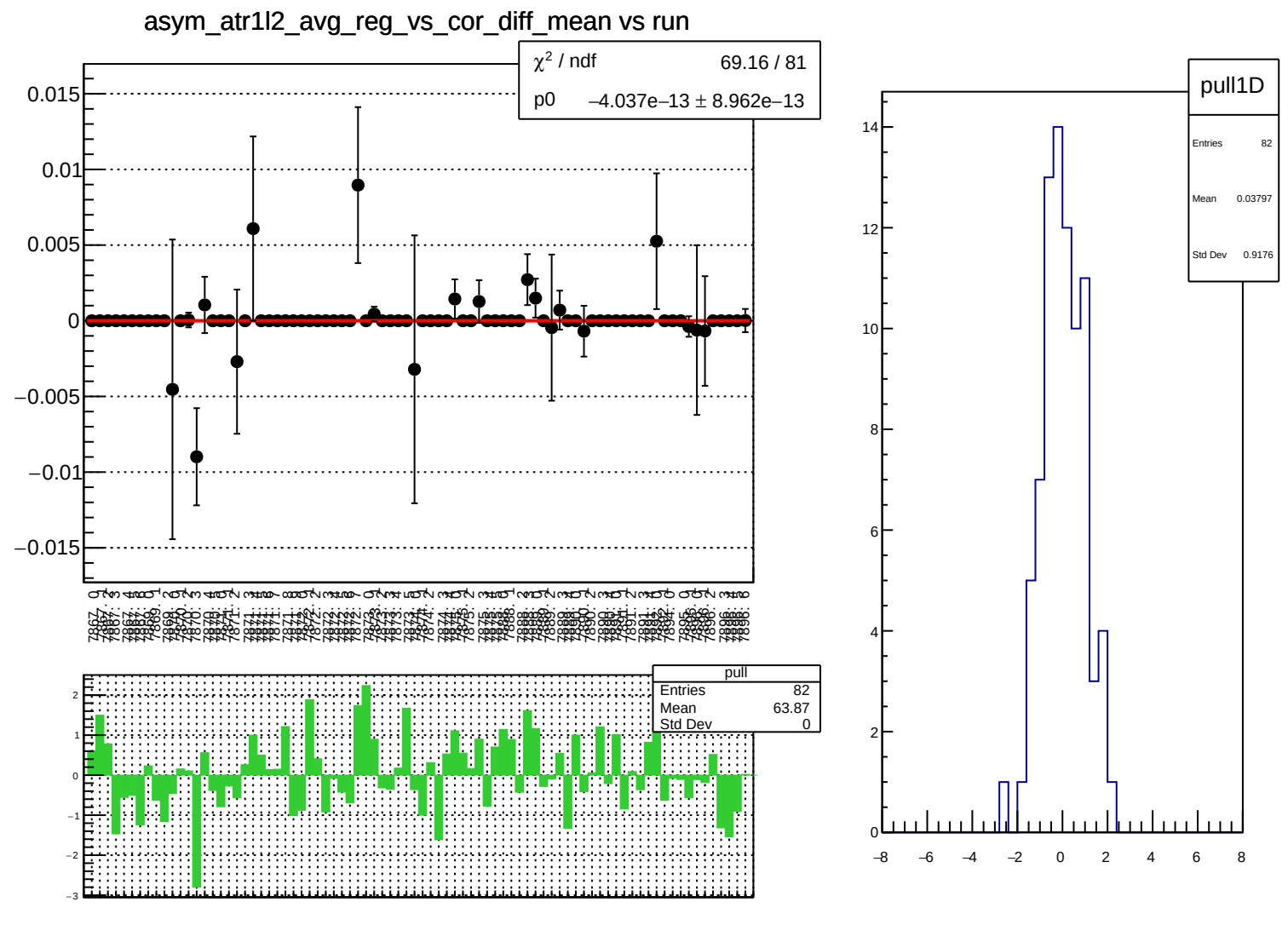

pull1D
Entries 82
Mean 0.0138
Std Dev 0.9075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

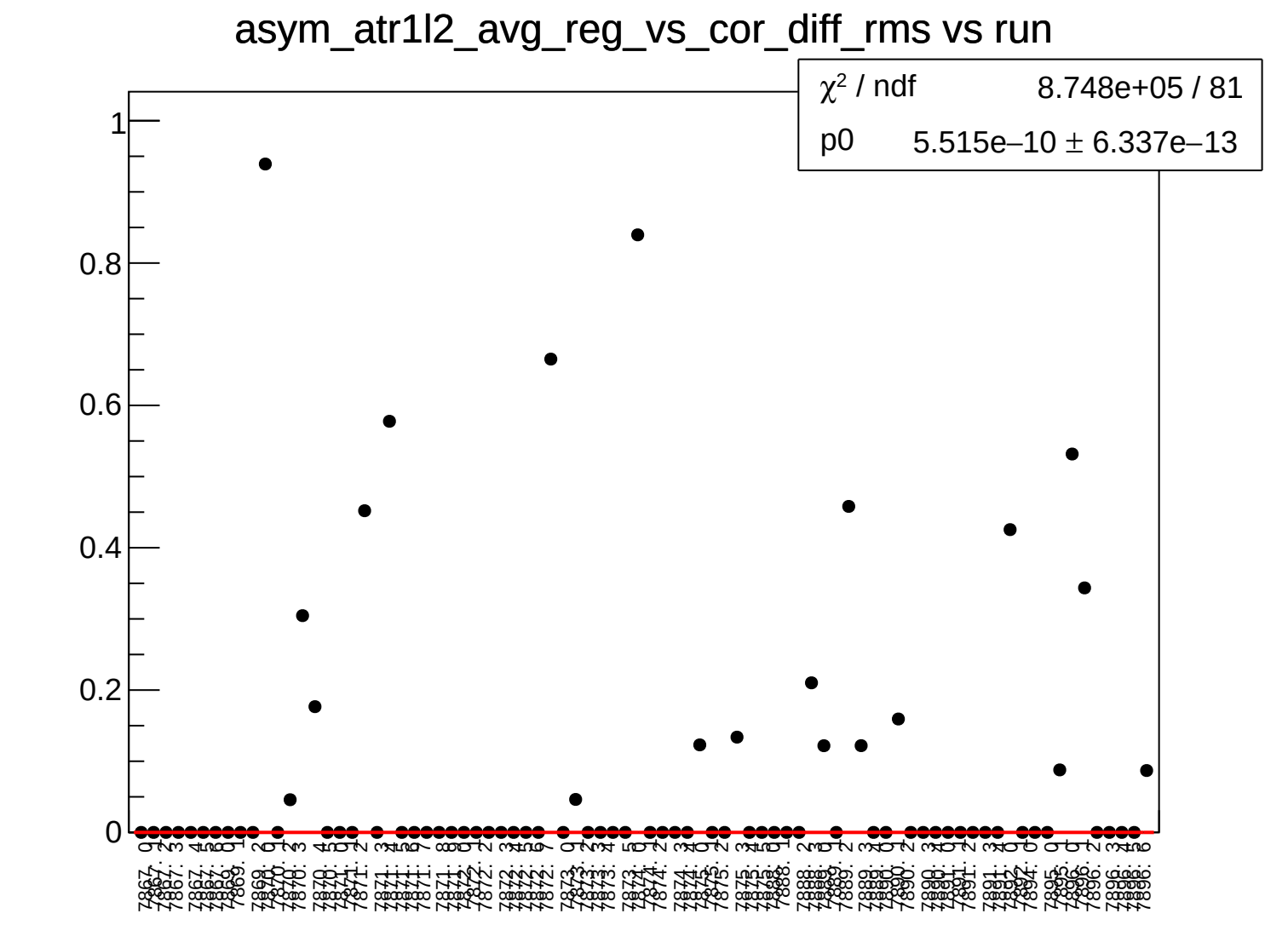

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.542e+04 / 81
p0 5581 ± 4.403
11000
10000
9000
8000
7000
6000
5000

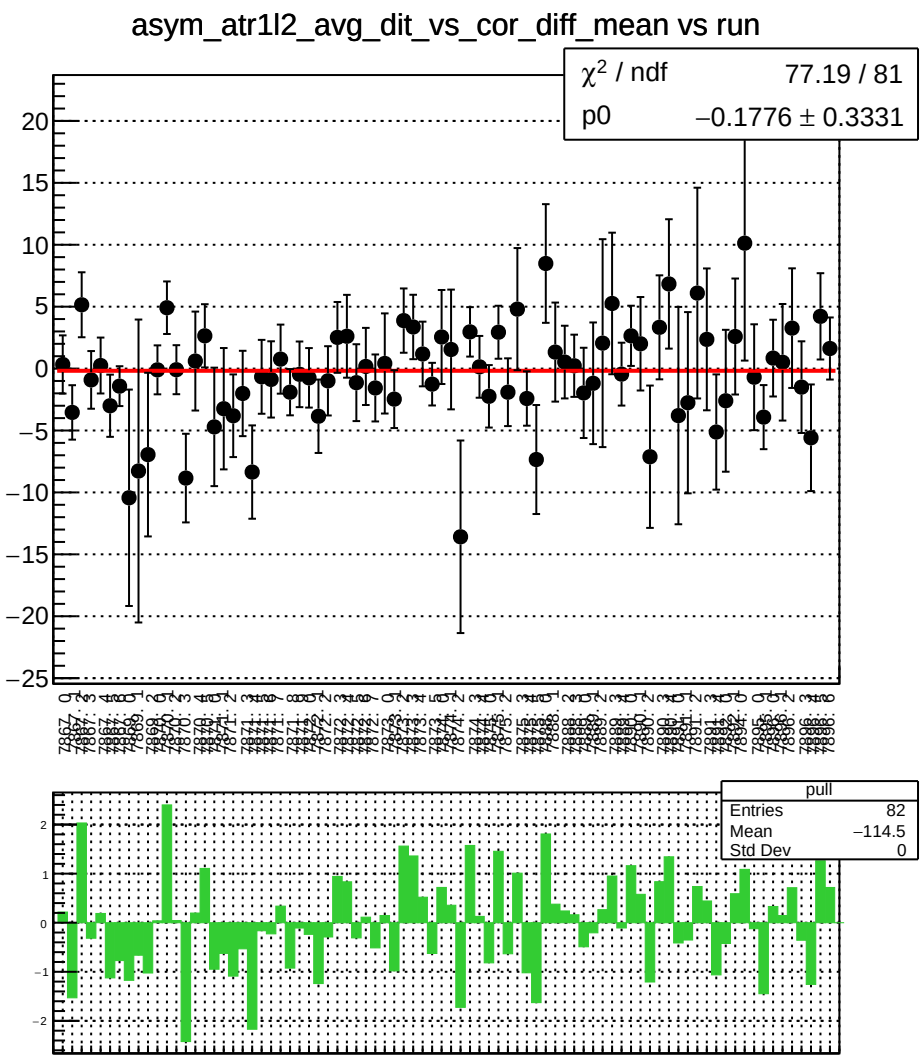

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 69.73 / 81
p0 −8711 ± 6639
200
100
0
−100
−200
pull
Entries 82
Mean −140.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

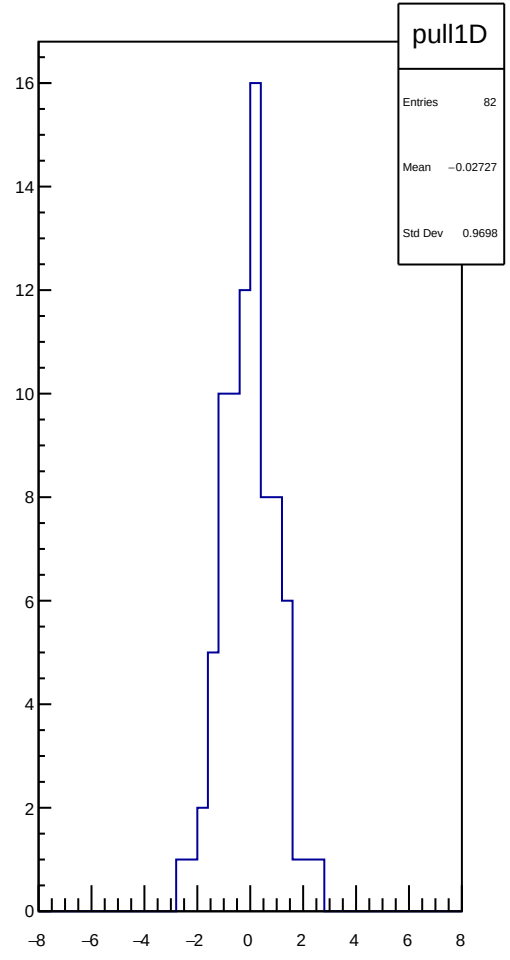

pull1D
Entries 82
Mean −0.01347
Std Dev 0.9221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

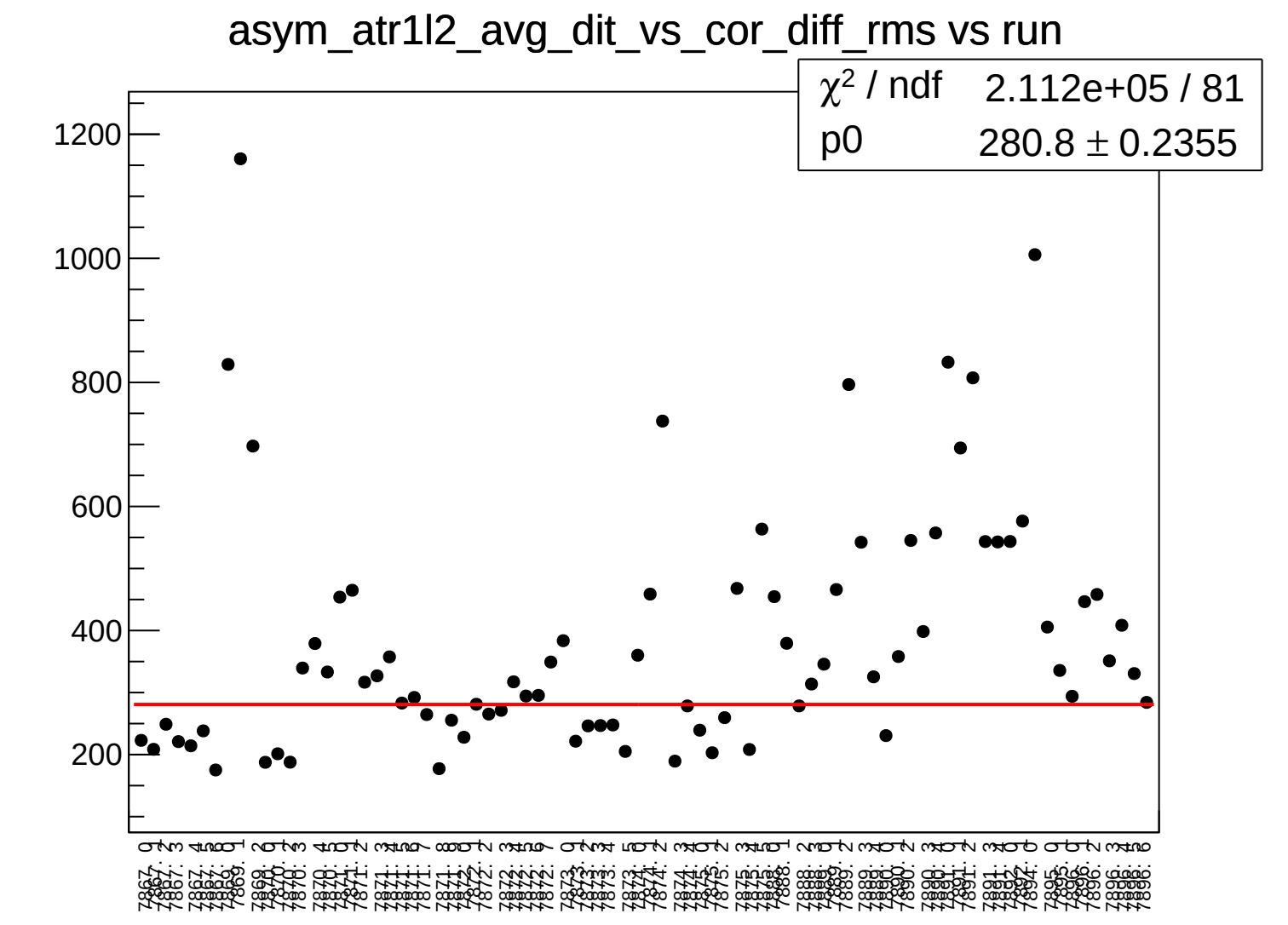

asym_atr1l2_avg_rms vs run
χ² / ndf 2.854e+04 / 81
p0 5945 ± 4.695
12000
11000
10000
9000
8000
7000
6000
5000
4000

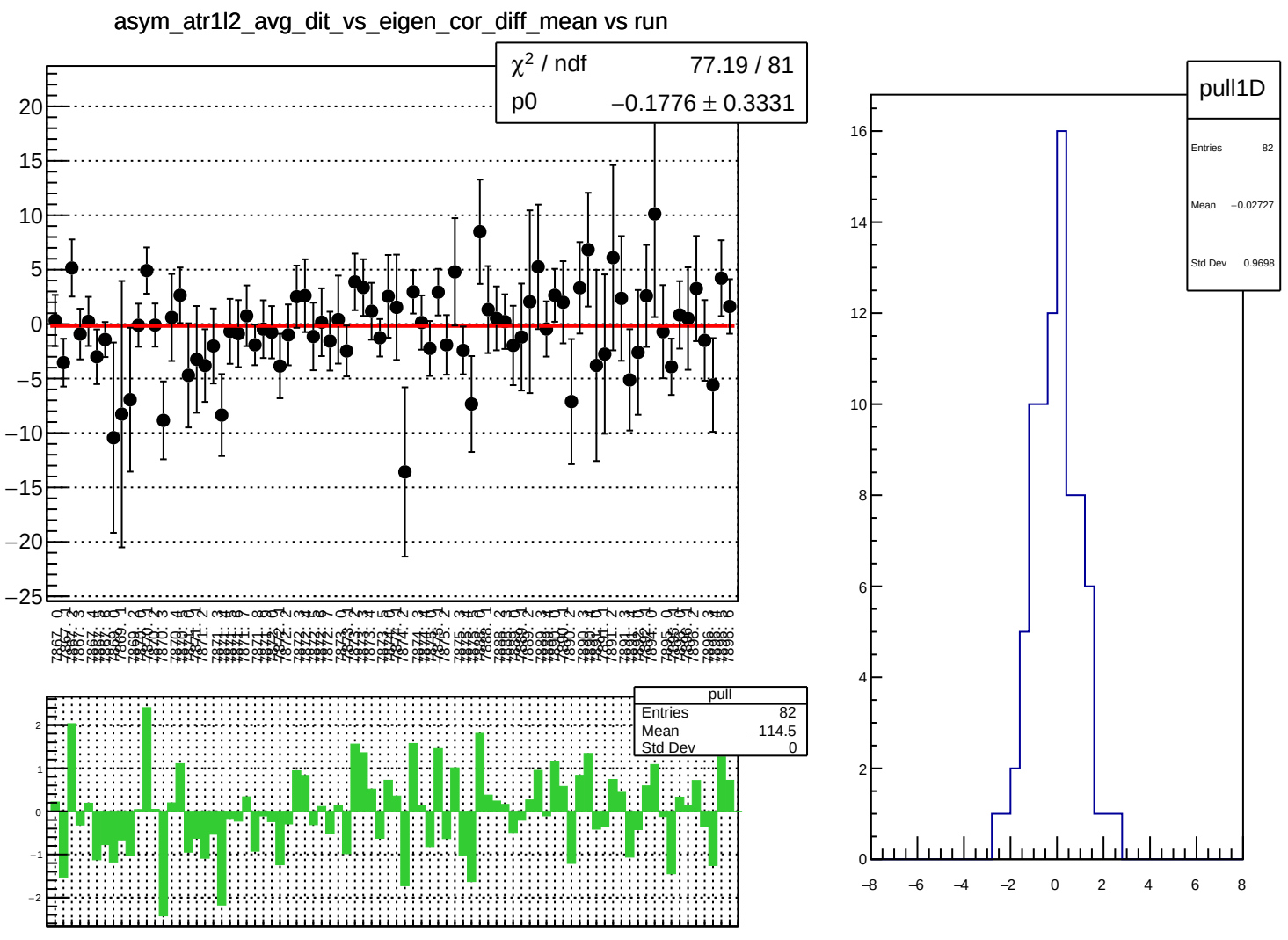

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.16 / 81
p0 −4.037e−13 ± 8.962e−13
pull
Entries 82
Mean 63.87
Std Dev 0
pull1D
Entries 82
Mean 0.03797
Std Dev 0.9176

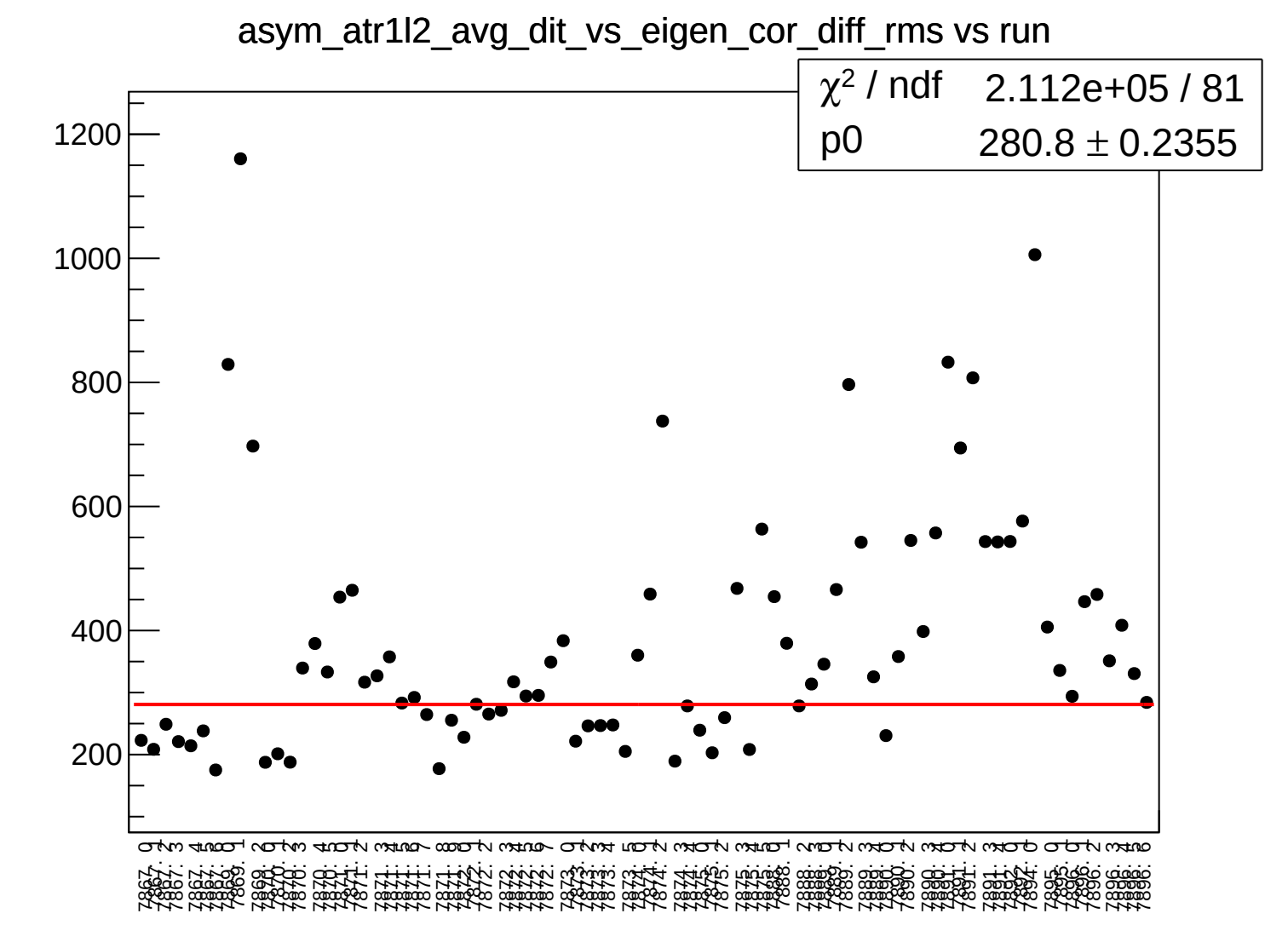

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.748e+05 / 81
p0 5.515e−10 ± 6.337e−13
1
0.8
0.6
0.4
0.2
0

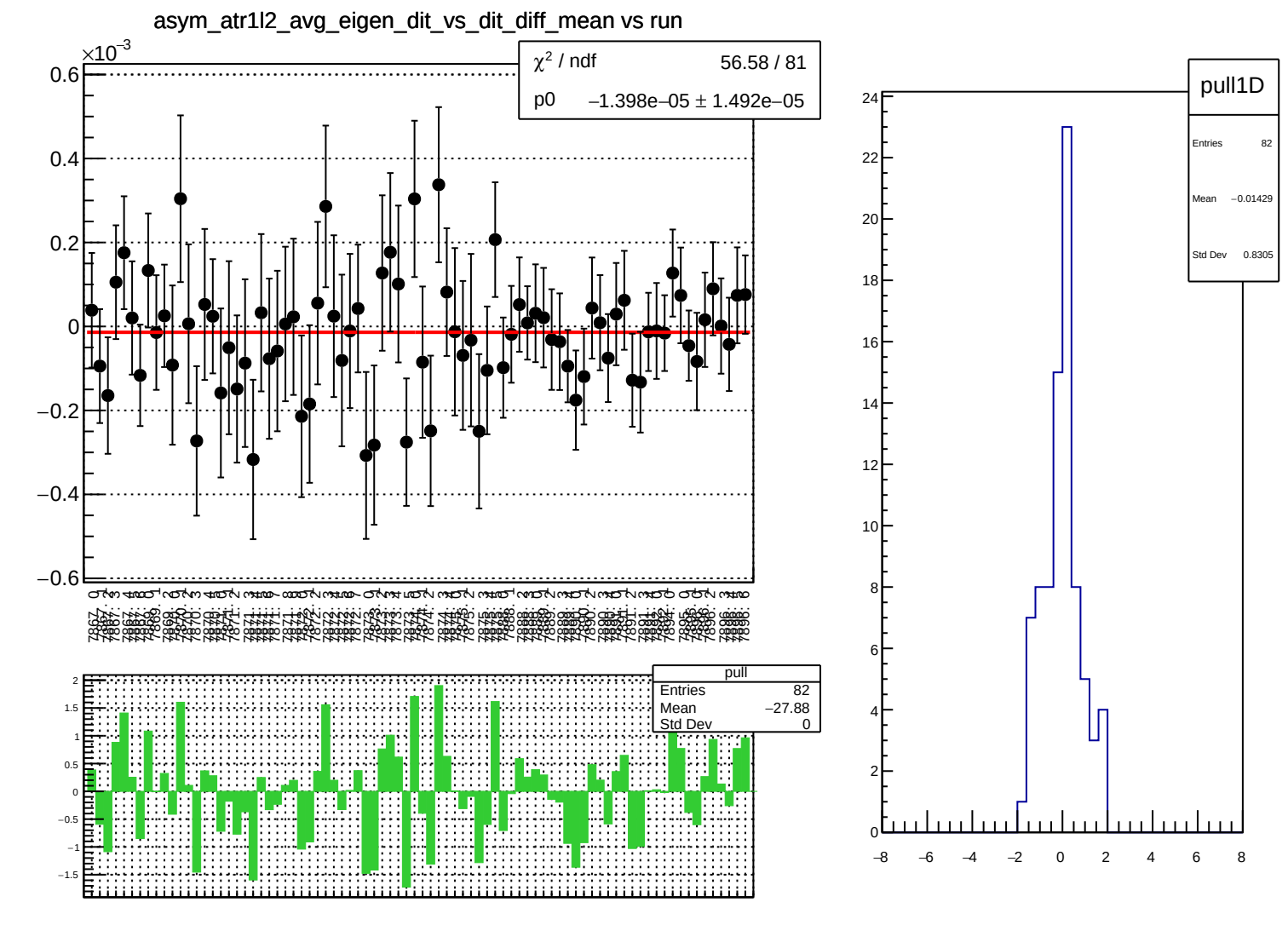

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 81
p0 −0.1776 ± 0.3331
pull
Entries 82
Mean −114.5
Std Dev 0

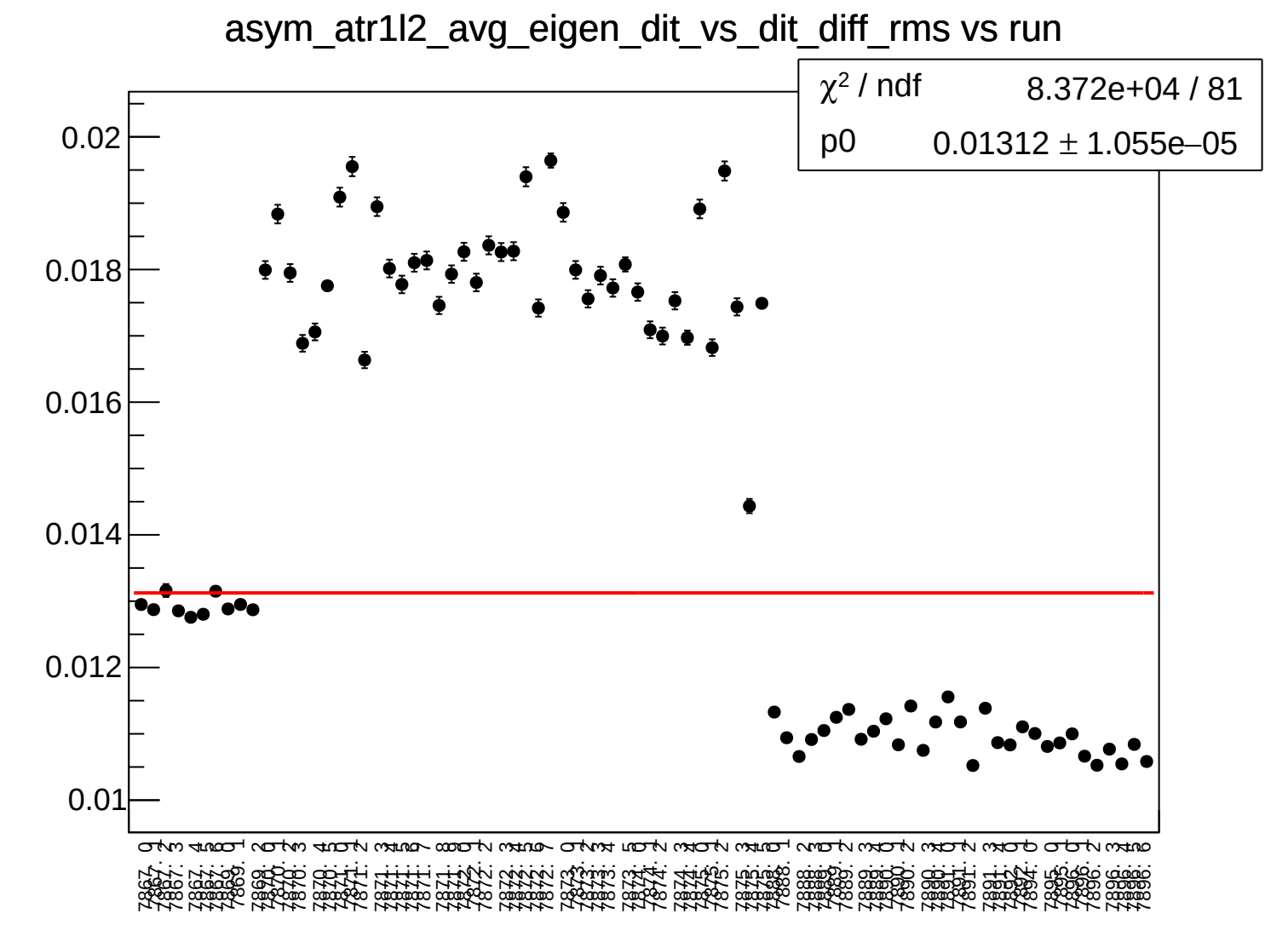

pull1D
Entries 82
Mean −0.02727
Std Dev 0.9698

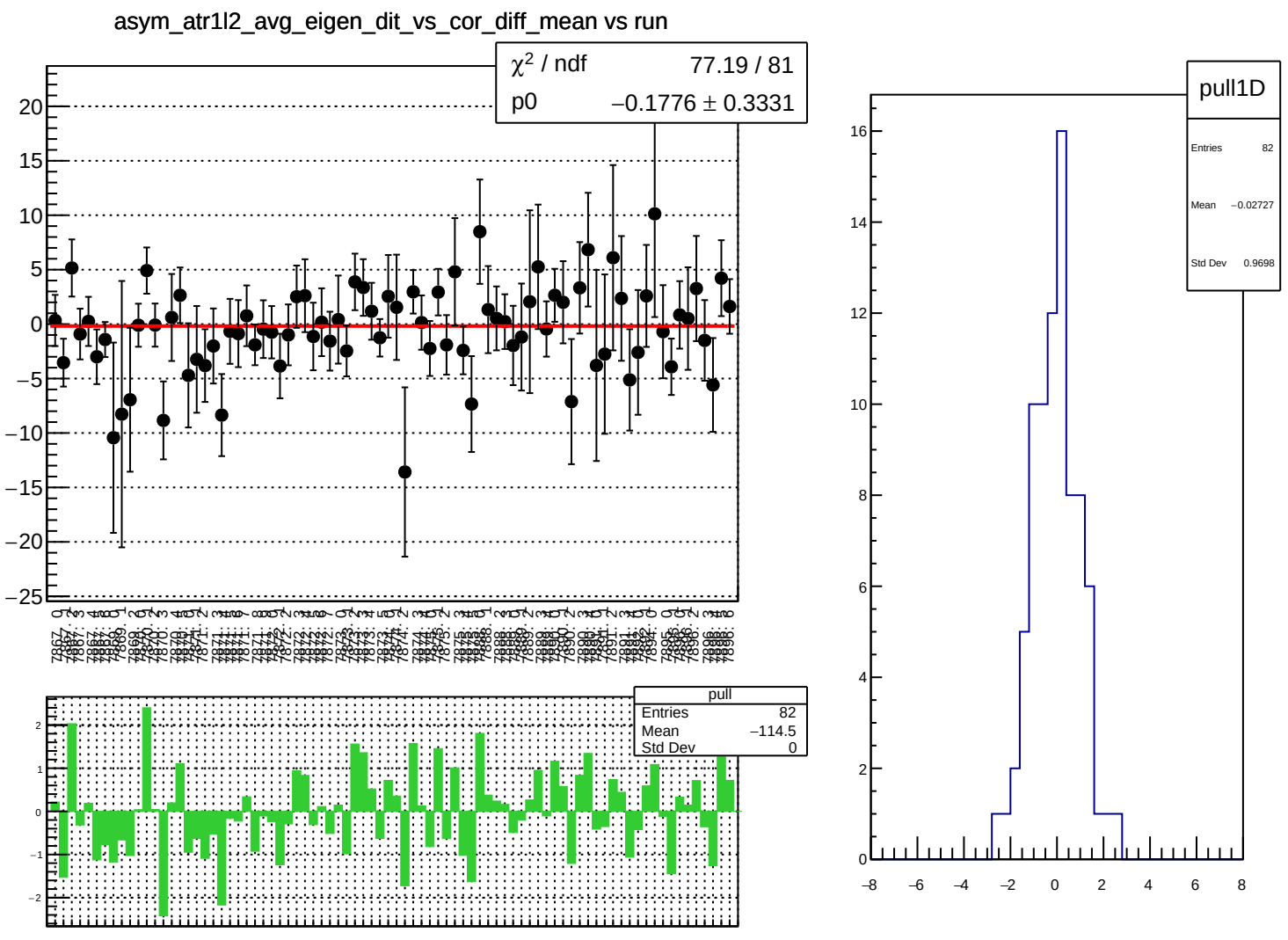

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.112e+05 / 81
p0 280.8 ± 0.2355
1200
1000
800
600
400
200

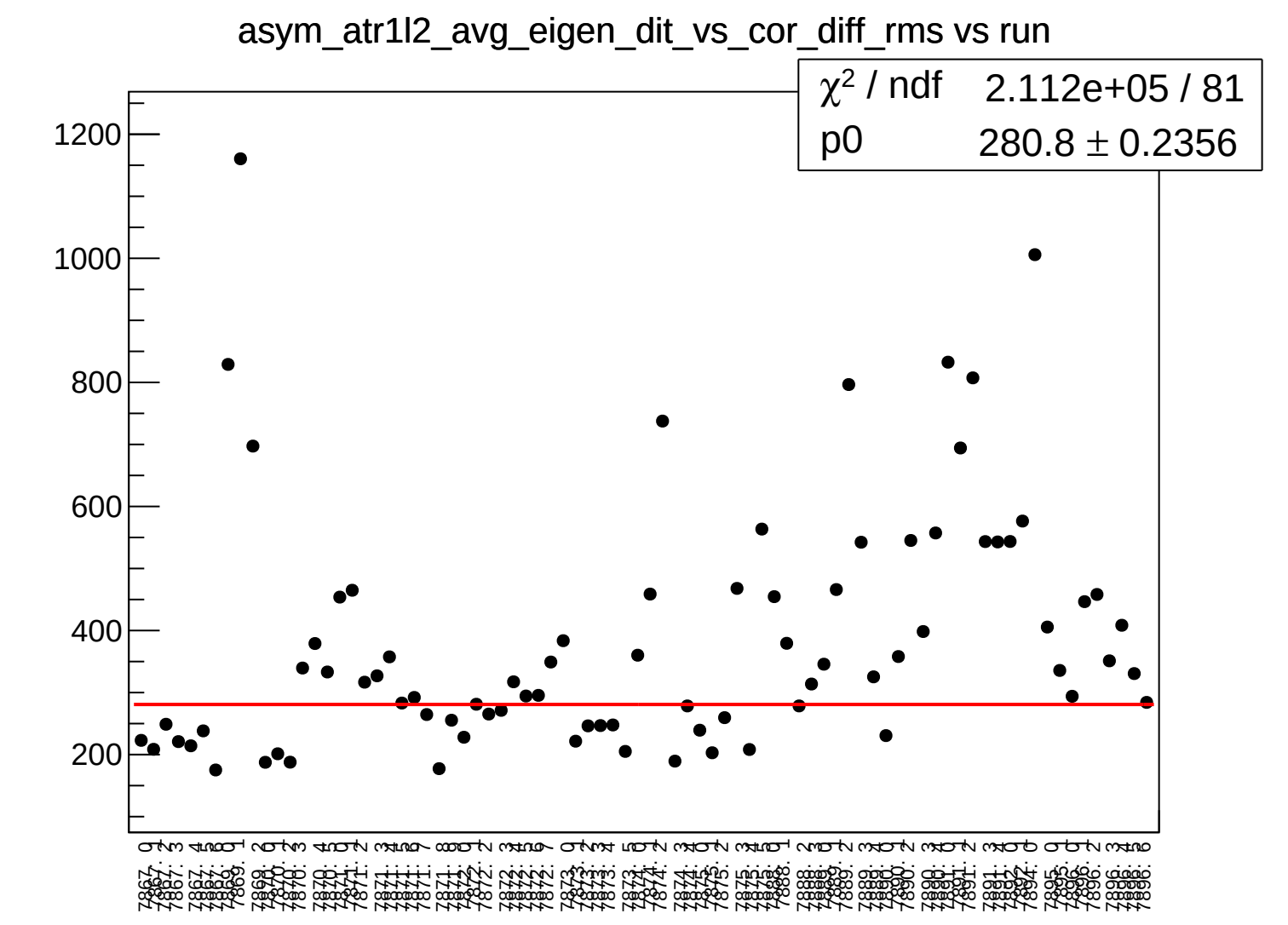

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 81
p0 −0.1776 ± 0.3331
pull
Entries 82
Mean −114.5
Std Dev 0
pull1D
Entries 82
Mean −0.02727
Std Dev 0.9698

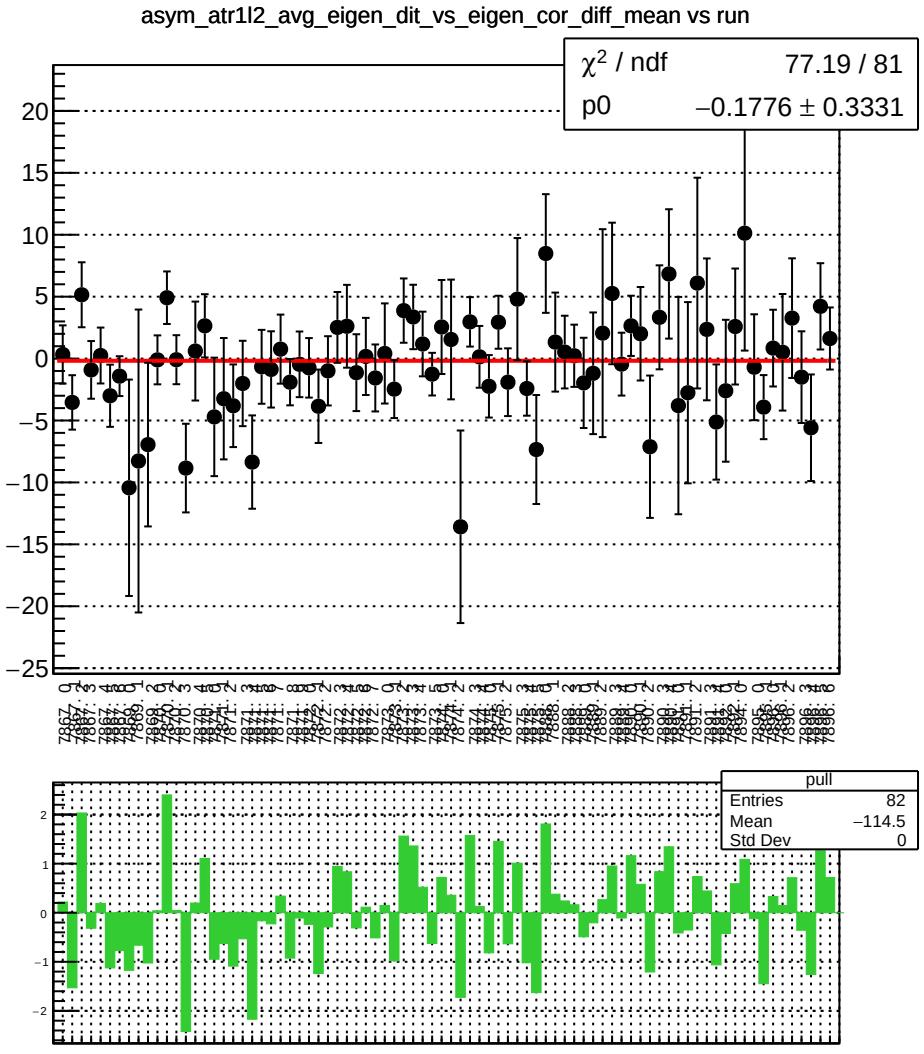

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.112e+05 / 81
p0 280.8 ± 0.2355
1200
1000
800
600
400
200

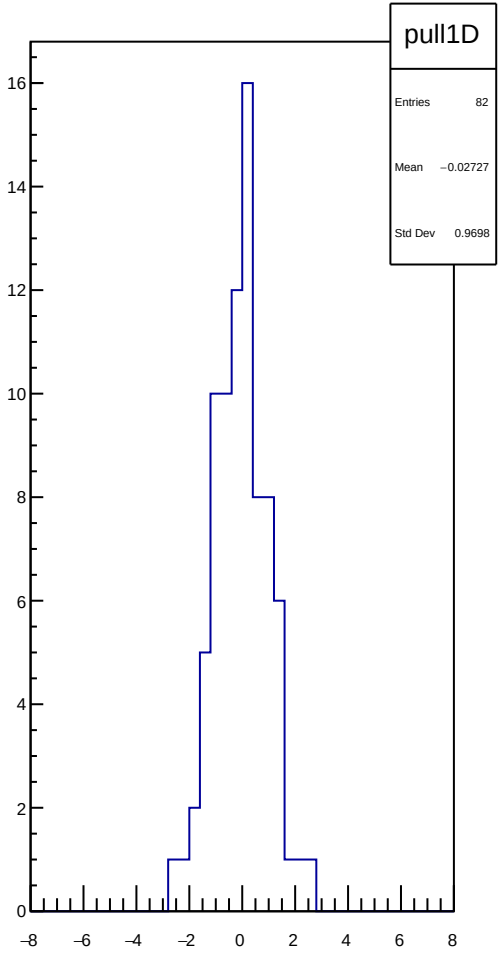

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 56.58 / 81
p0 −1.398e−05 ± 1.492e−05
pull
Entries 82
Mean −27.88
Std Dev 0
pull1D
Entries 82
Mean −0.01429
Std Dev 0.8305

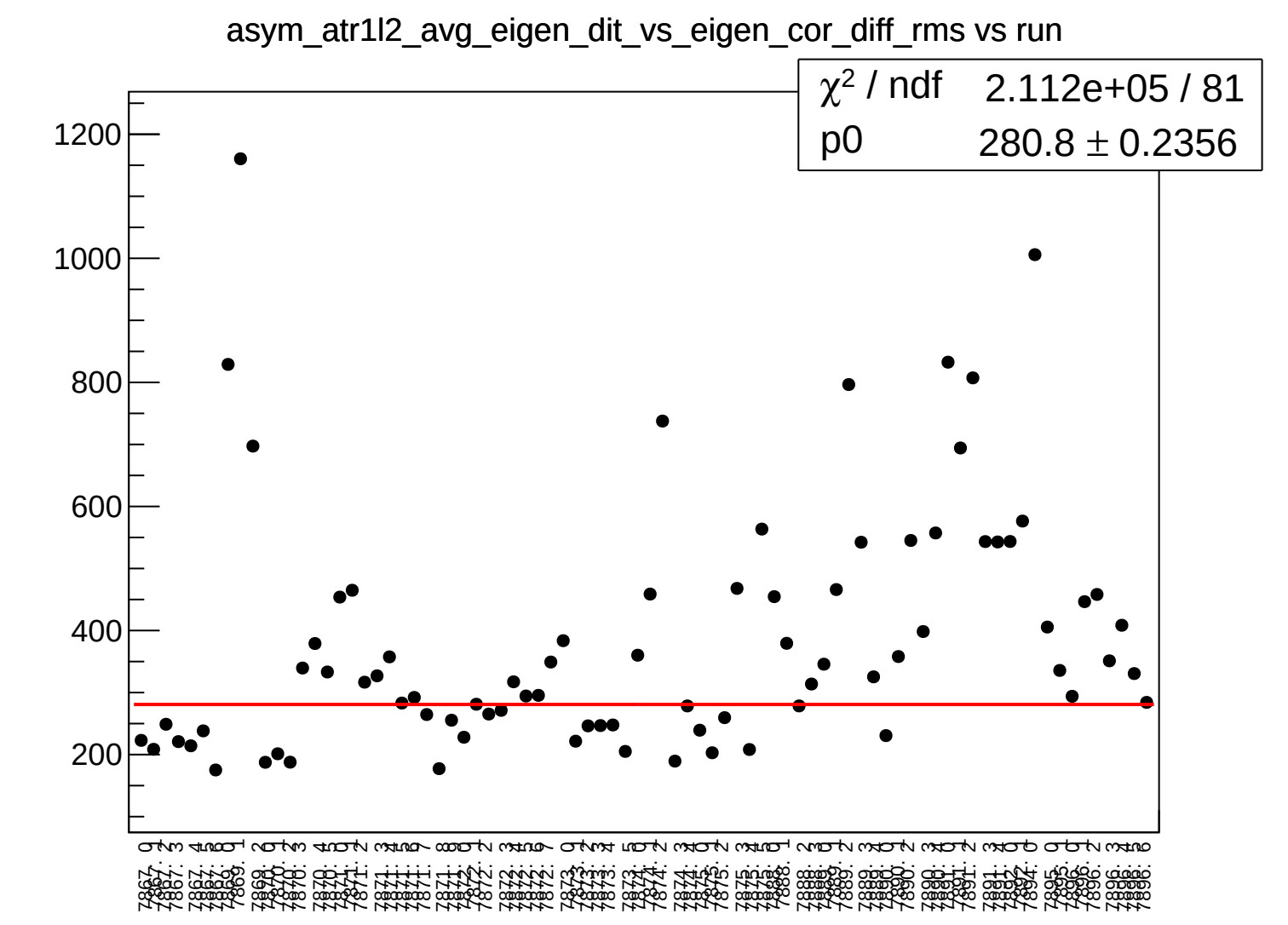

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.372e+04 / 81
p0 0.01312 ± 1.055e−05
0.02
0.018
0.016
0.014
0.012
0.01

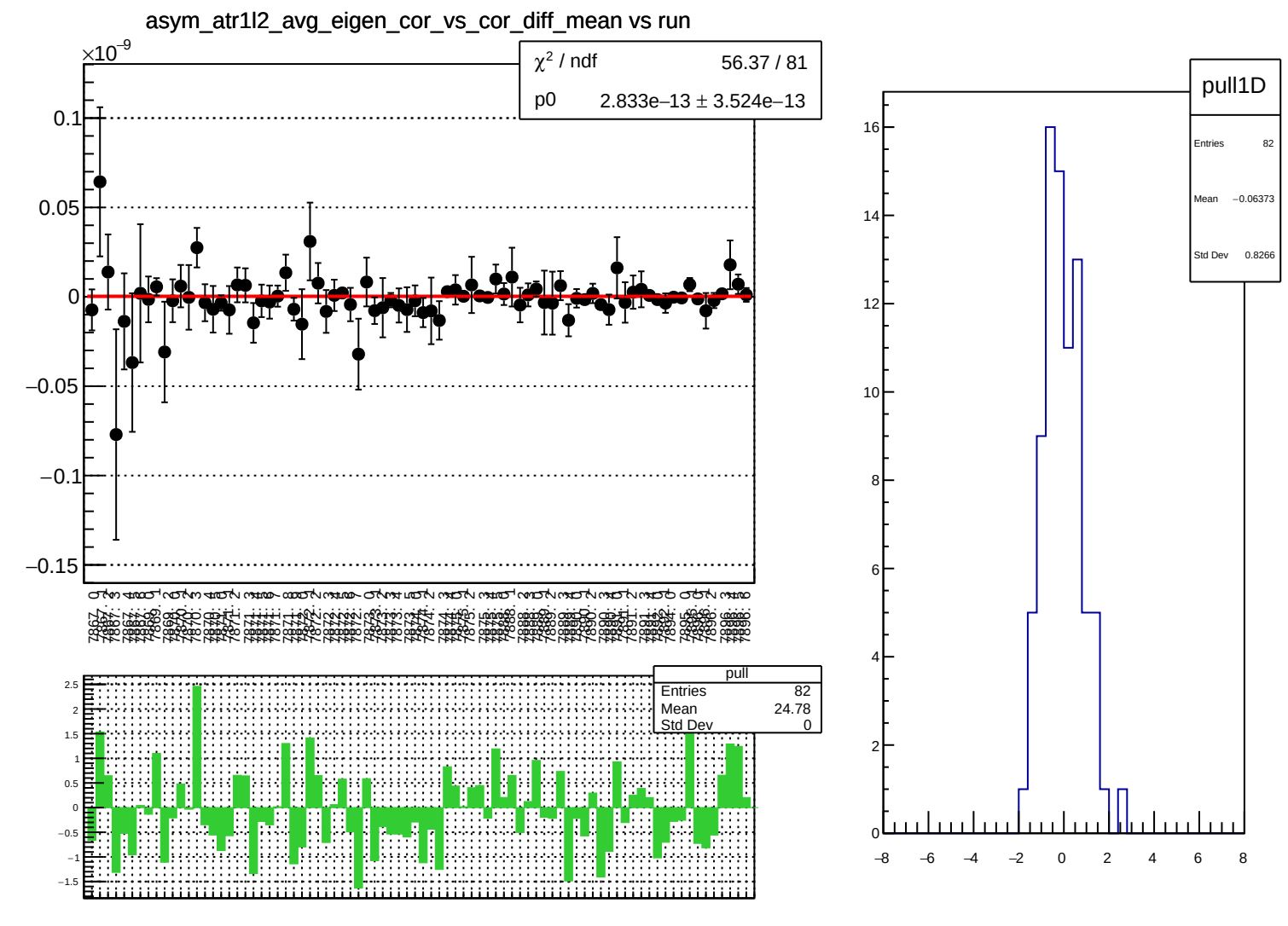

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 81
p0 −0.1776 ± 0.3331
pull
Entries 82
Mean −114.5
Std Dev 0
pull1D
Entries 82
Mean −0.02727
Std Dev 0.9698

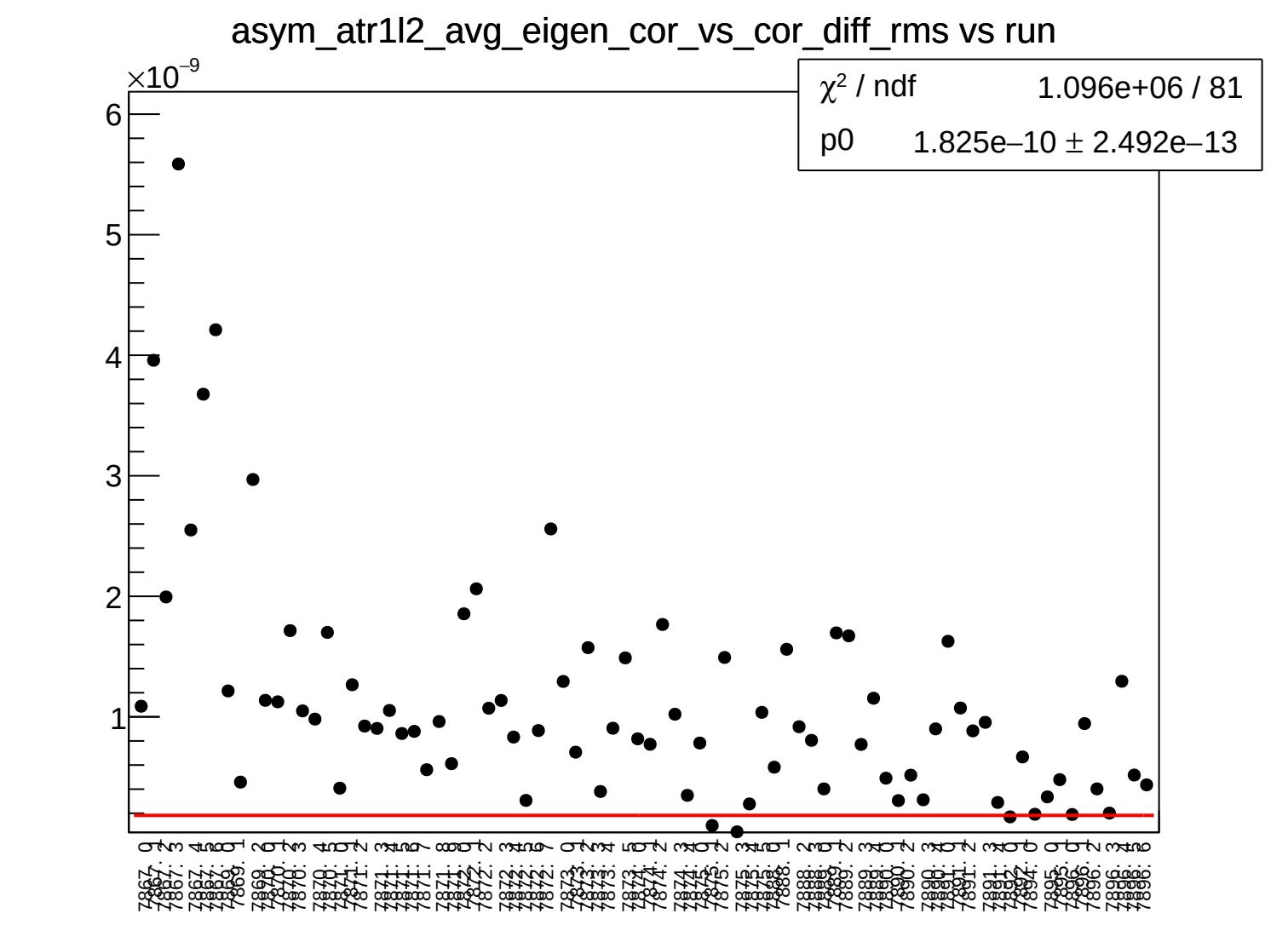

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.112e+05 / 81
p0 280.8 ± 0.2356
1200
1000
800
600
400
200

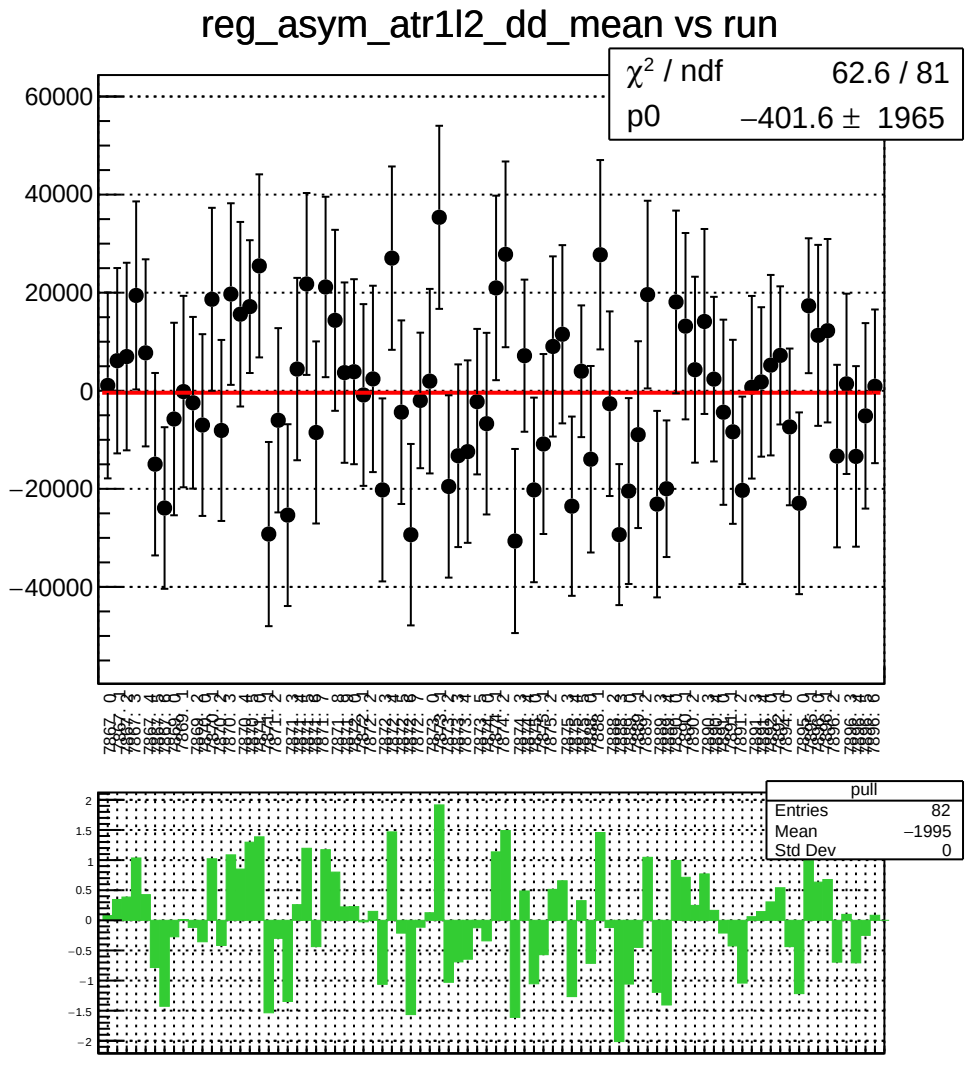

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 81
p0 −0.1776 ± 0.3331
pull
Entries 82
Mean −114.5
Std Dev 0

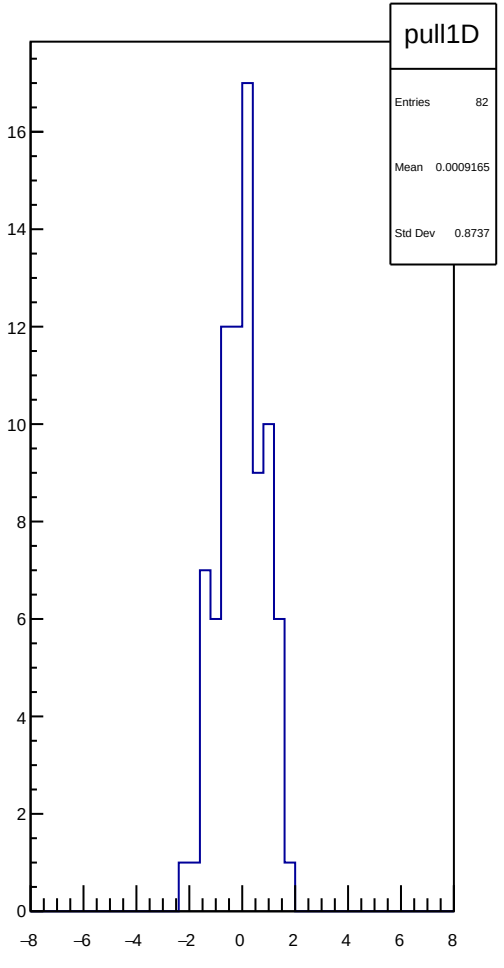

pull1D
Entries 82
Mean −0.02727
Std Dev 0.9698

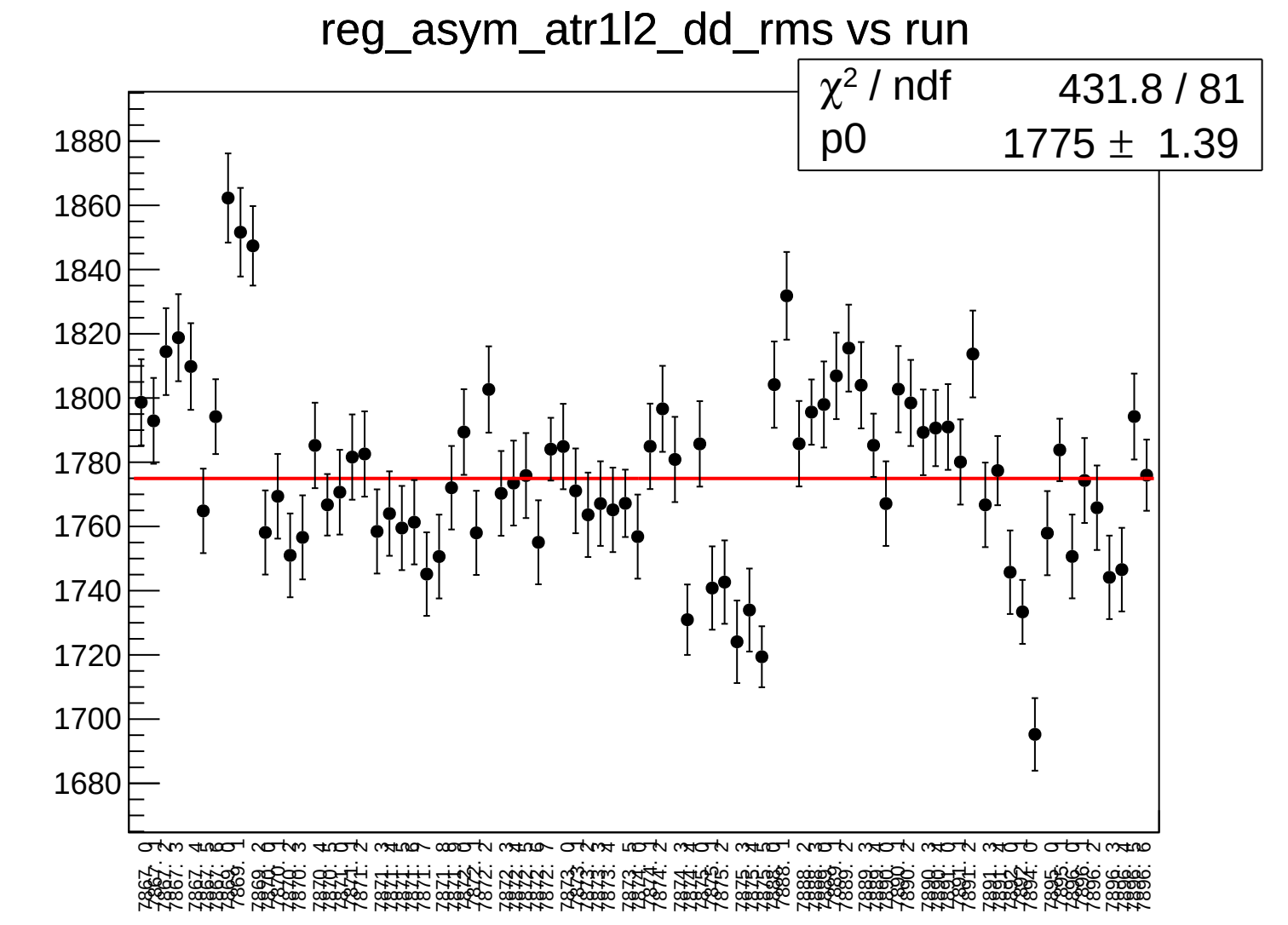

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.112e+05 / 81
p0 280.8 ± 0.2356
1200
1000
800
600
400
200

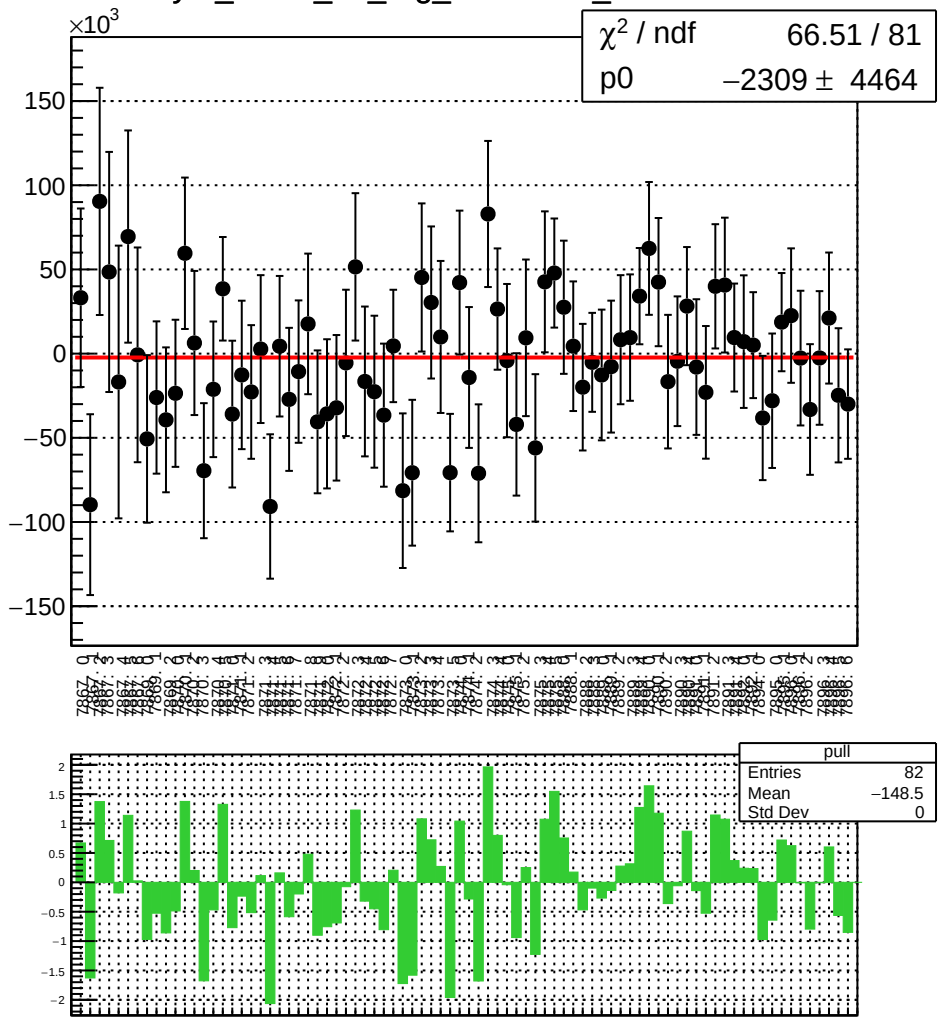

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 56.37 / 81
p0 2.833e−13 ± 3.524e−13
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean 24.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.06373
Std Dev 0.8266
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

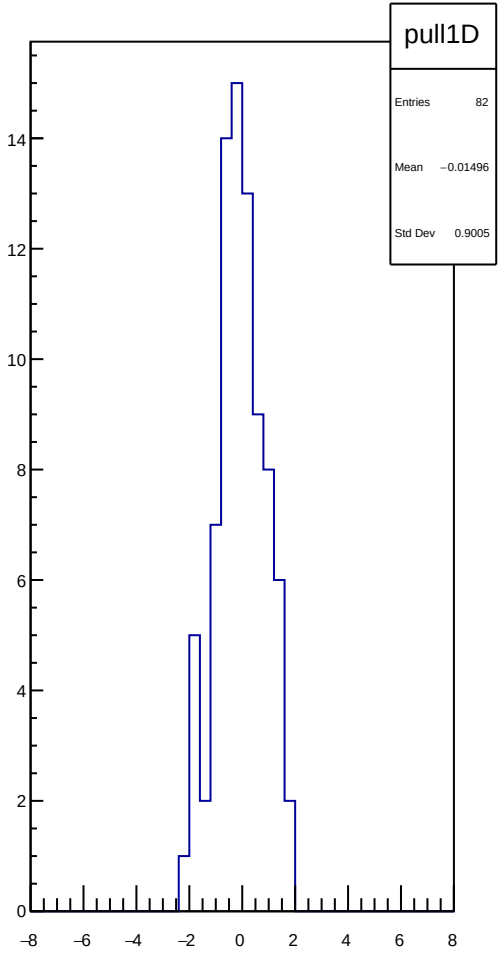

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.096e+06 / 81
p0 1.825e−10 ± 2.492e−13
6
5
4
3
2
1

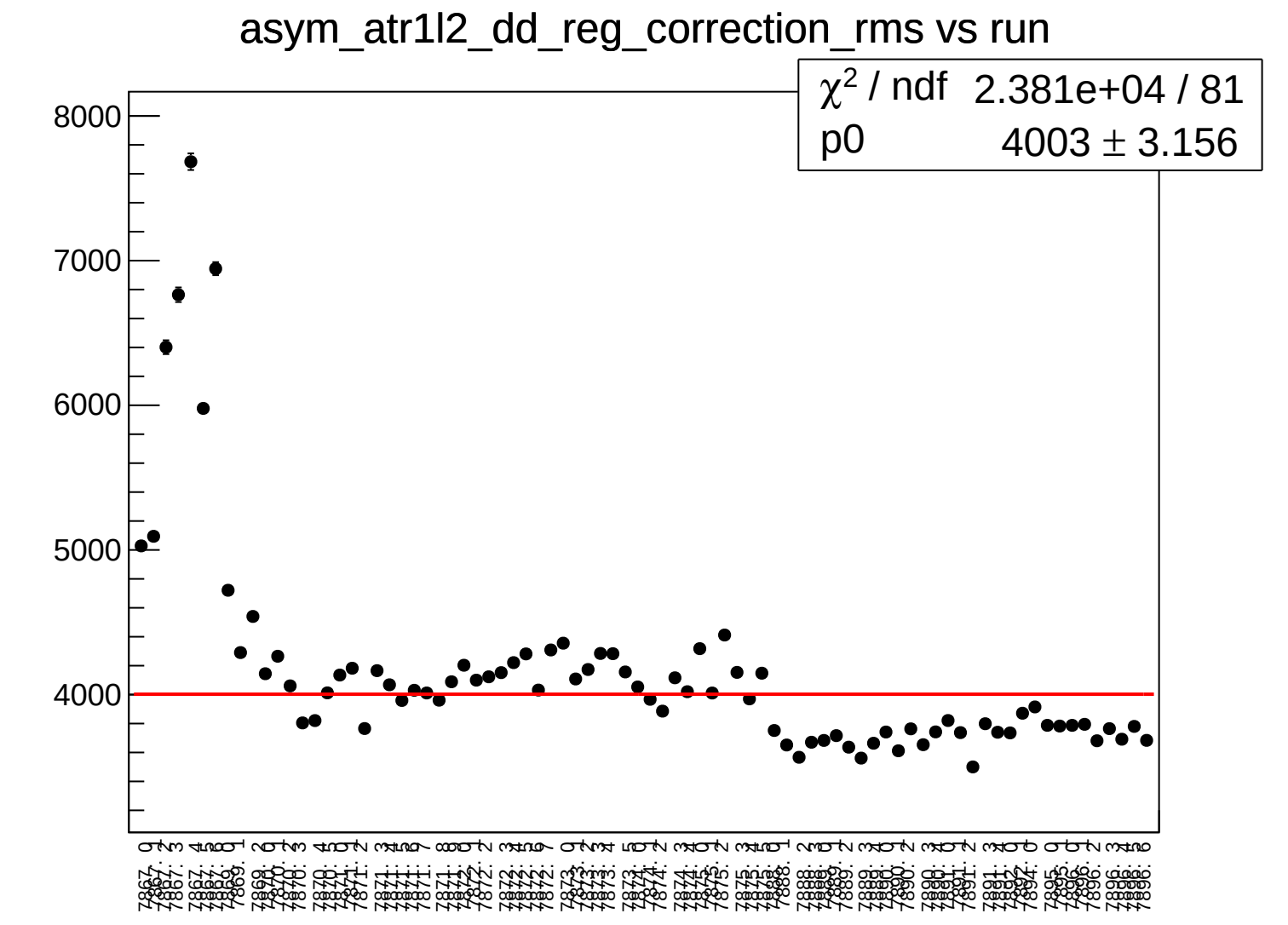

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 62.6 / 81
p0 −401.6 ± 1965
pull
Entries 82
Mean −1995
Std Dev 0

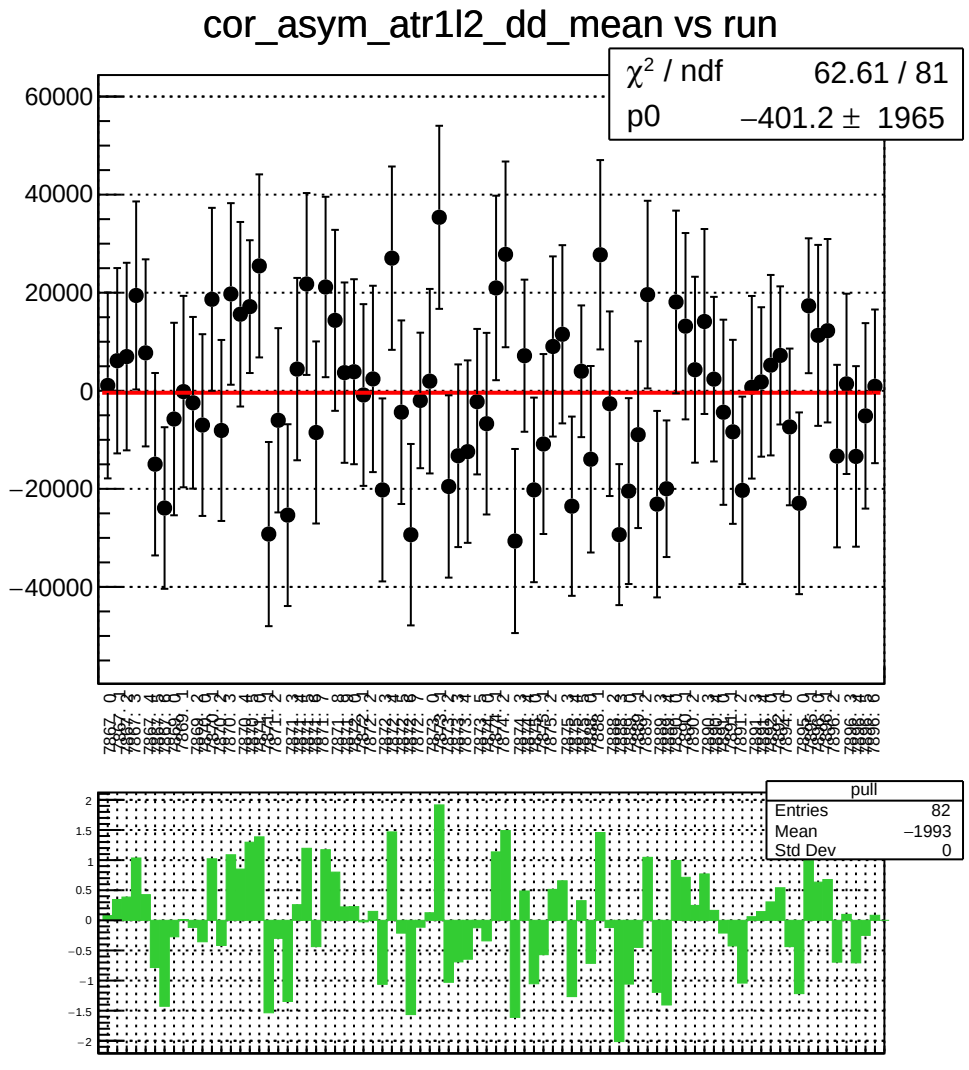

pull1D
Entries 82
Mean 0.0009165
Std Dev 0.8737

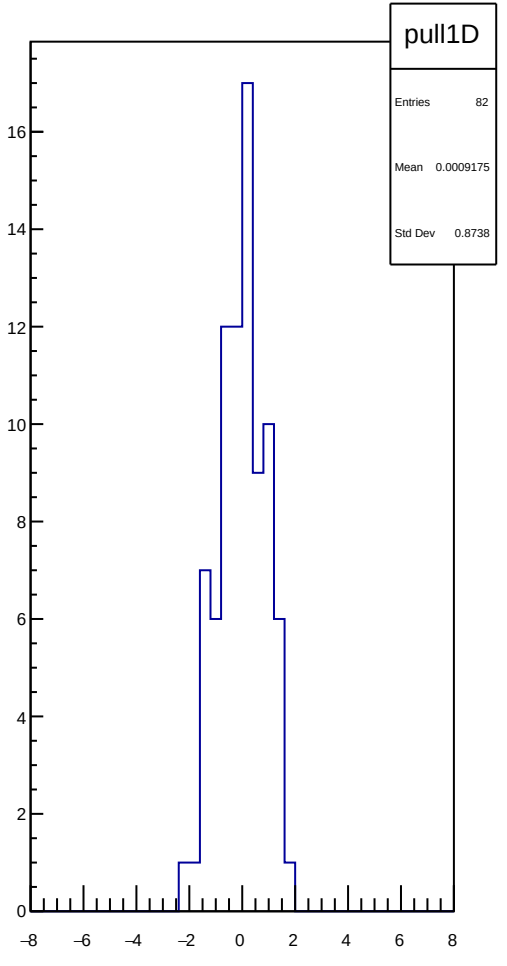

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 431.8 / 81
p0 1775 ± 1.39
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

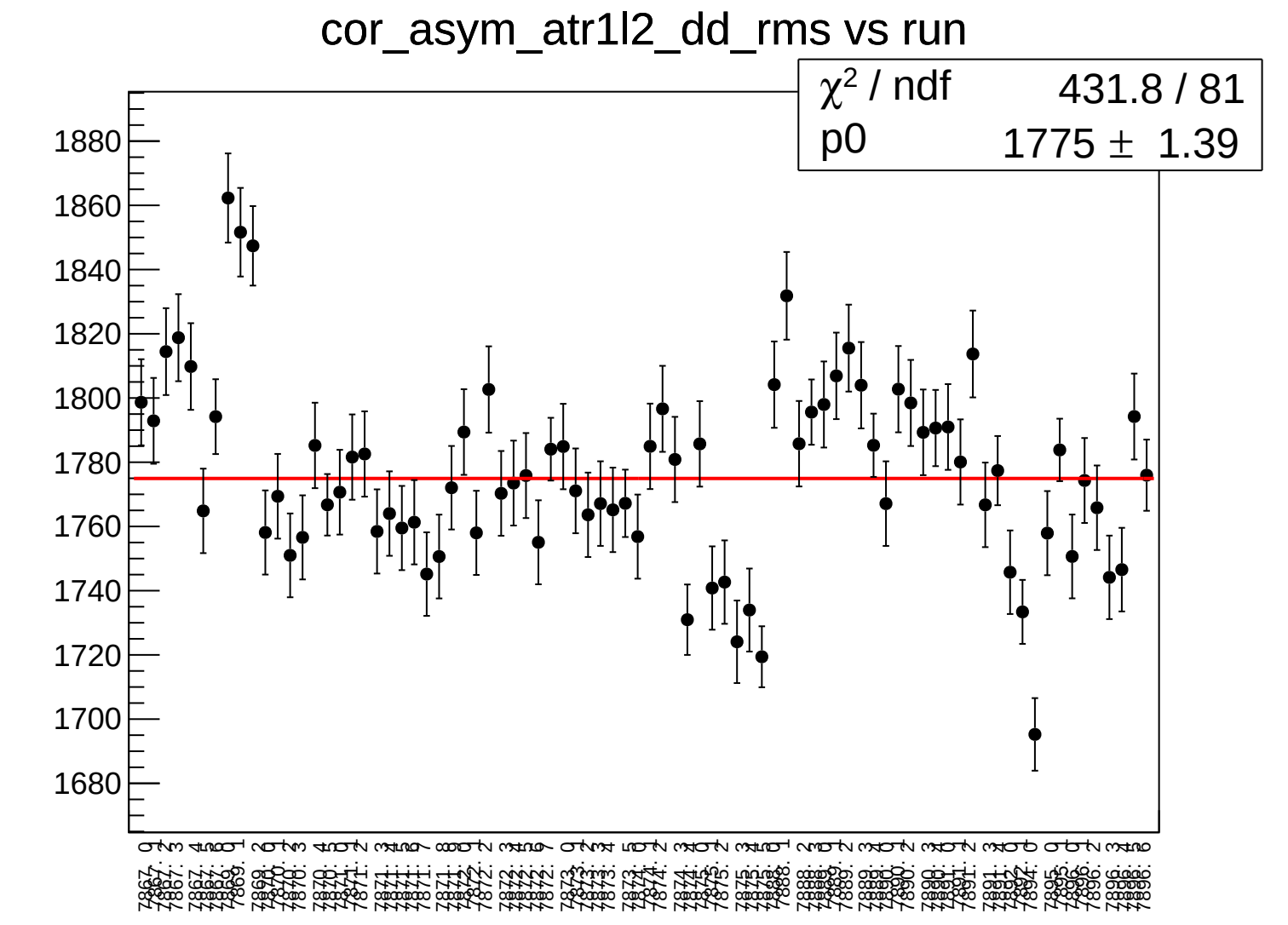

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 66.51 / 81
p0 −2309 ± 4464
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −148.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

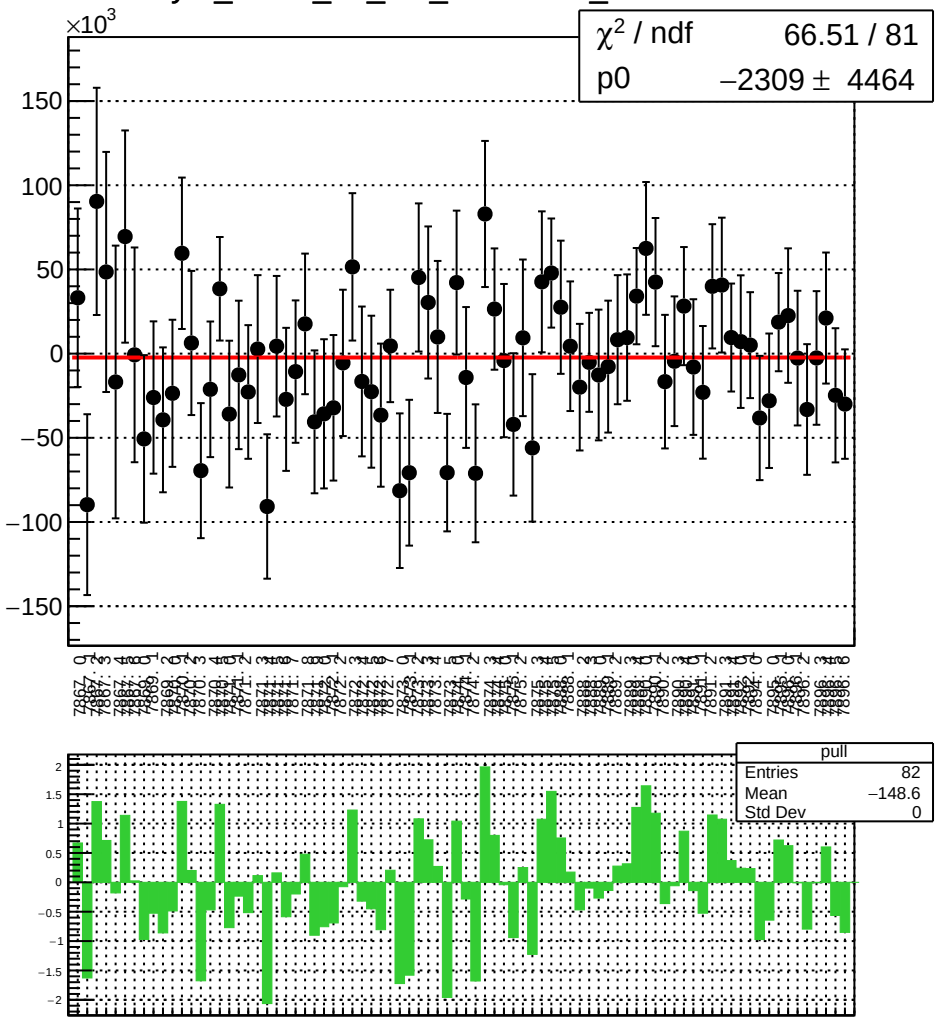

pull1D
Entries 82
Mean −0.01496
Std Dev 0.9005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

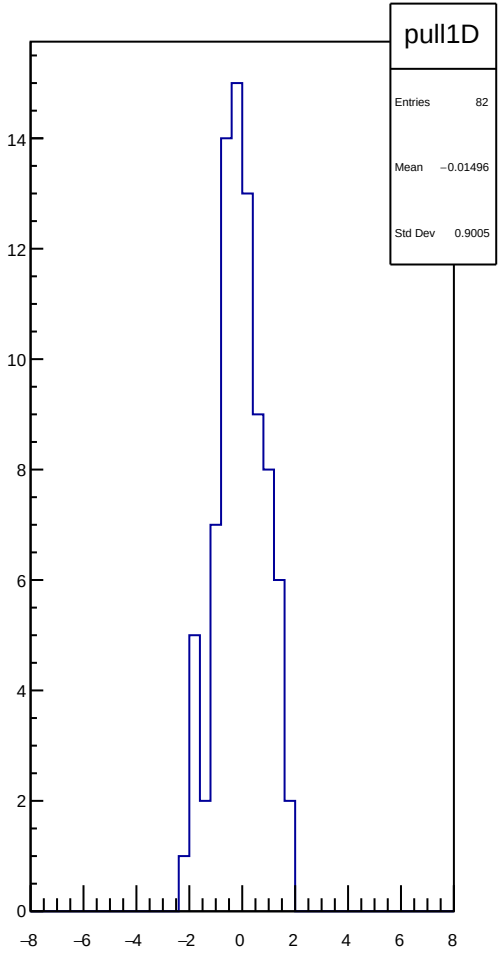

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2.381e+04 / 81
p0 4003 ± 3.156
8000
7000
6000
5000
4000

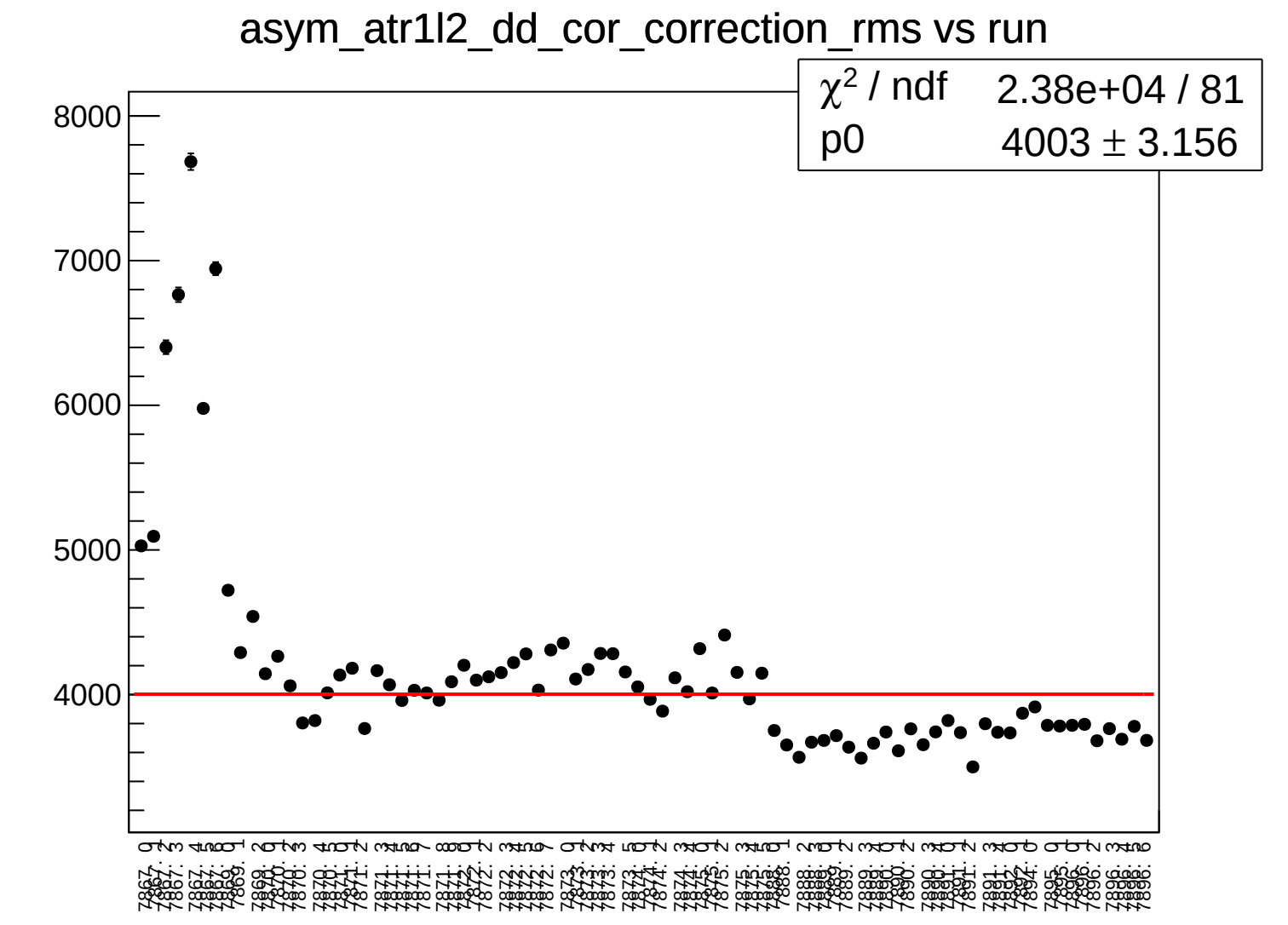

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 62.61 / 81
p0 −401.2 ± 1965
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −1993
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

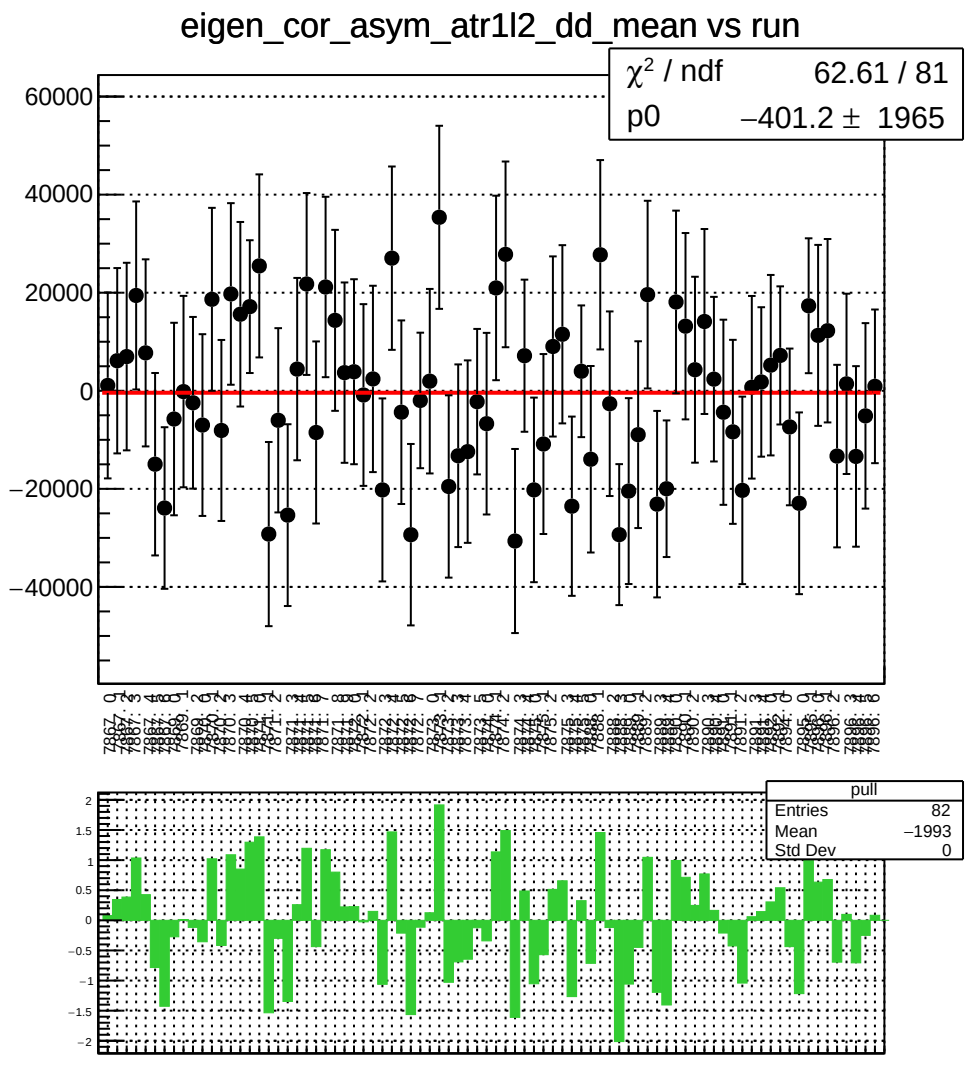

pull1D
Entries 82
Mean 0.0009175
Std Dev 0.8738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

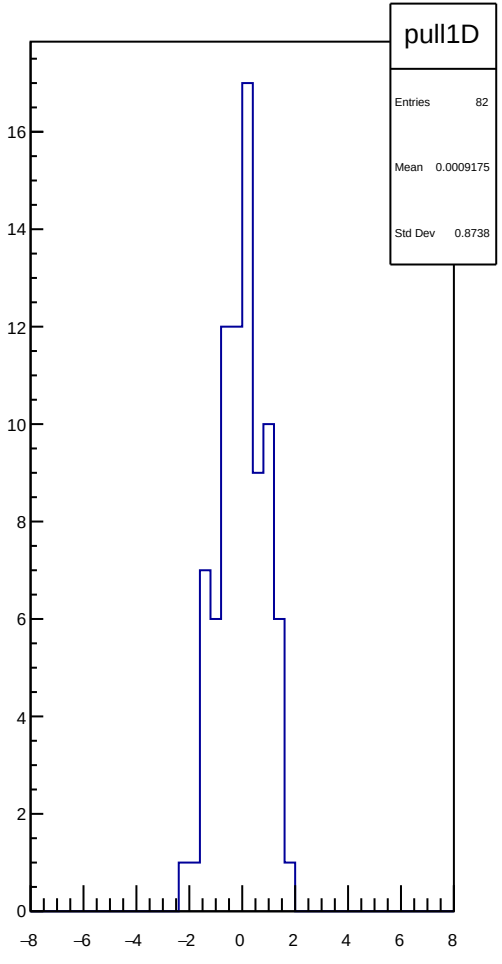

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 431.8 / 81
p0 1775 ± 1.39
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

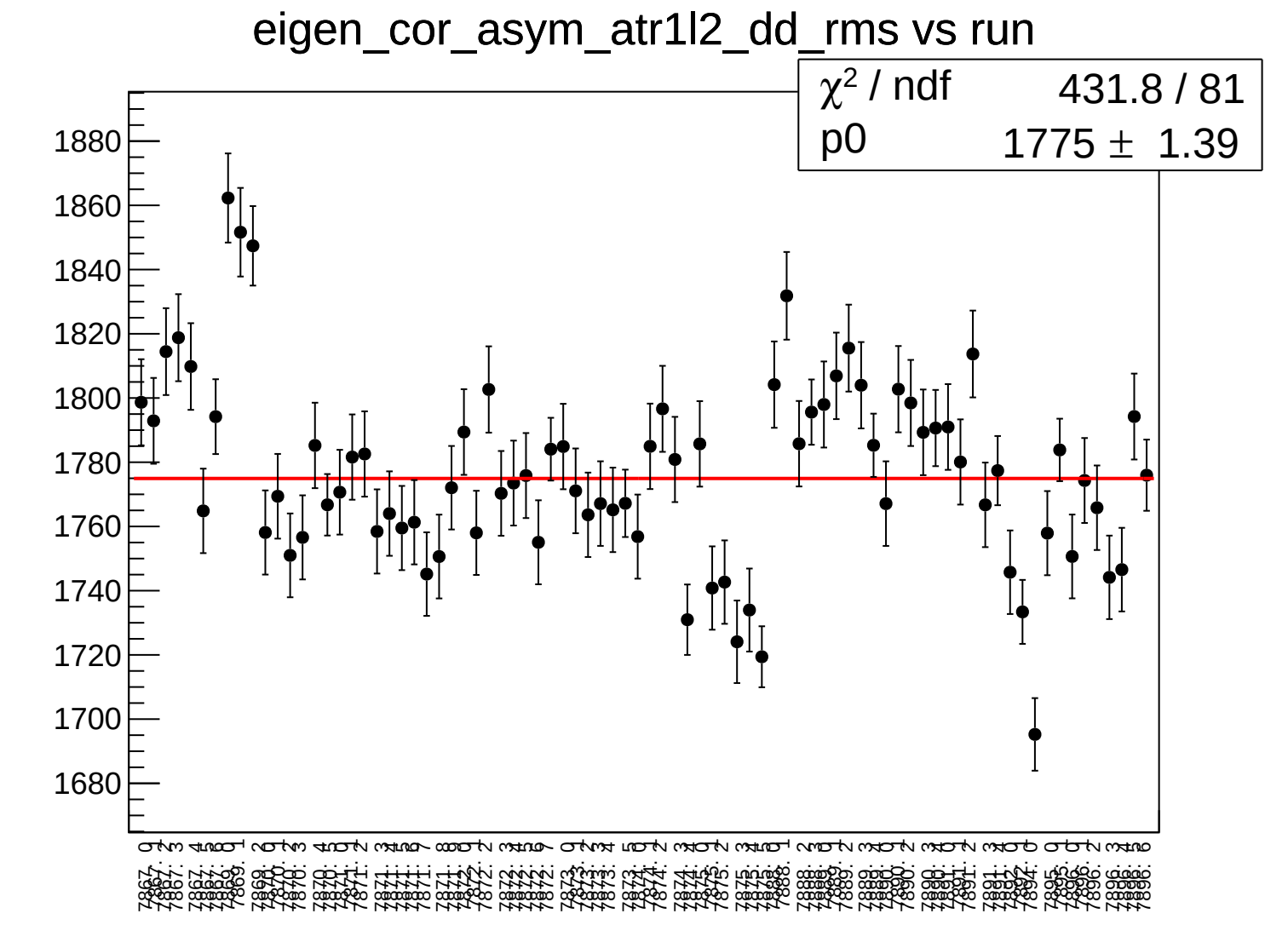

asym_atr1l2_dd_cor_correction_mean vs run
χ² / ndf 66.51 / 81
p0 −2309 ± 4464
×10³
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −148.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

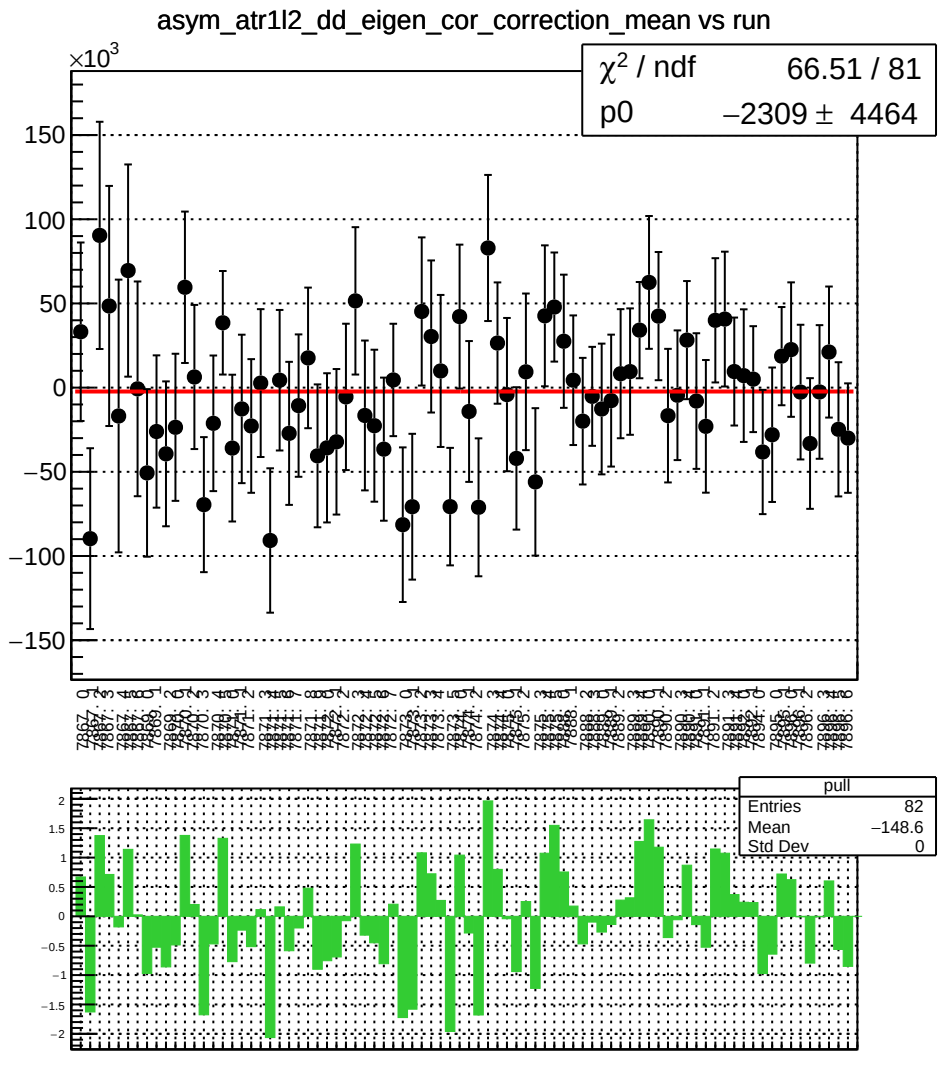

pull1D
Entries 82
Mean −0.01496
Std Dev 0.9005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

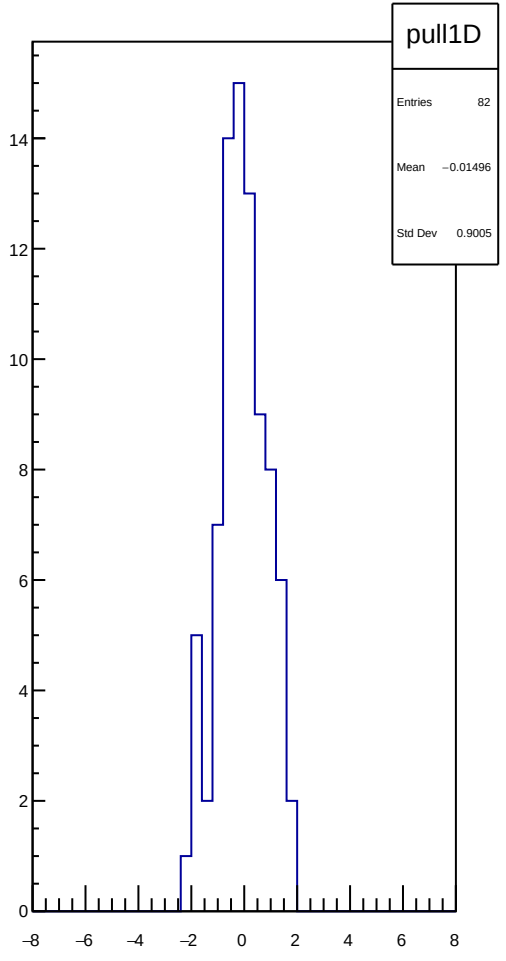

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2.38e+04 / 81
p0 4003 ± 3.156
8000
7000
6000
5000
4000

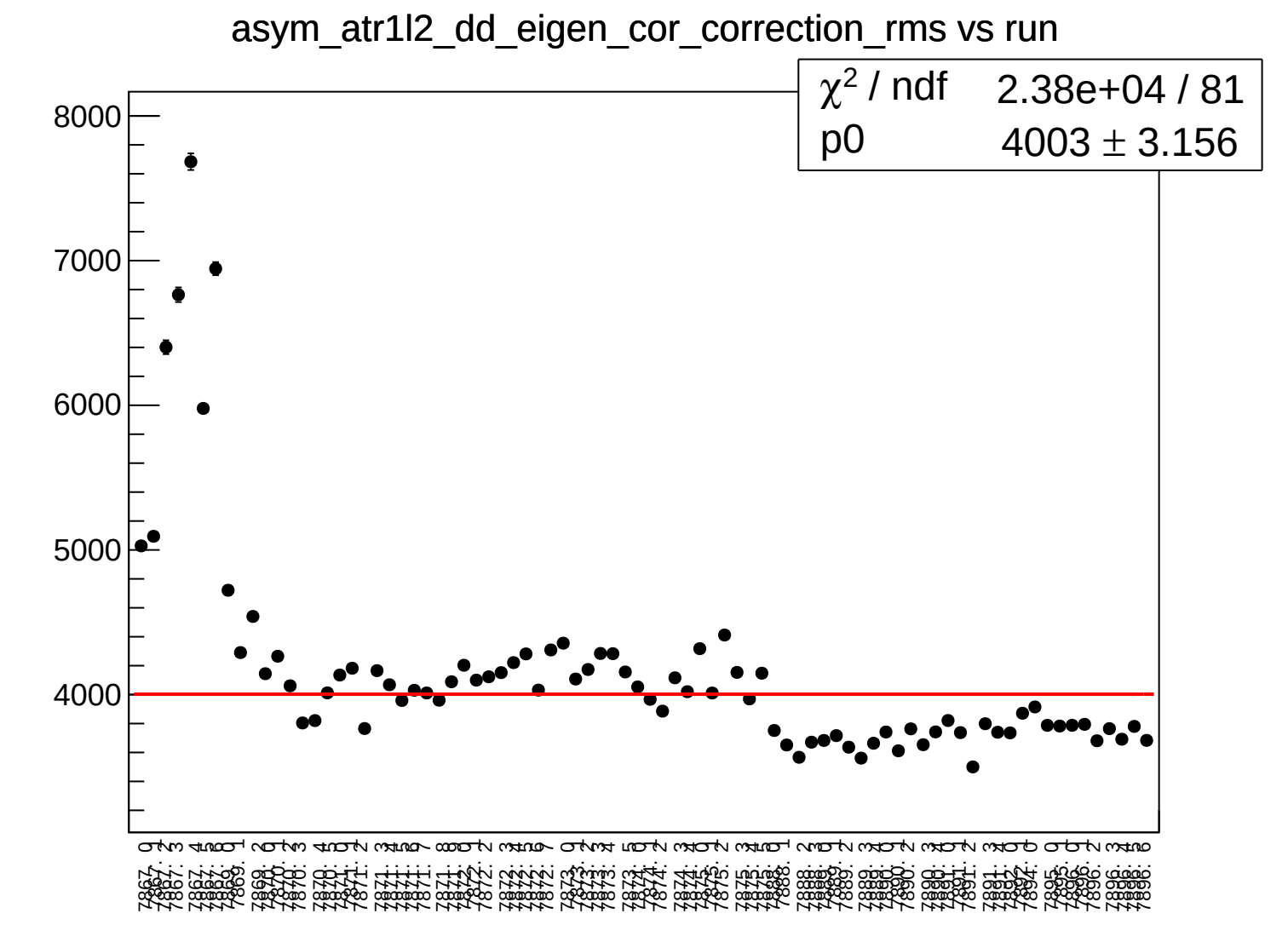

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 62.61 / 81
p0 −401.2 ± 1965
pull
Entries 82
Mean −1993
Std Dev 0

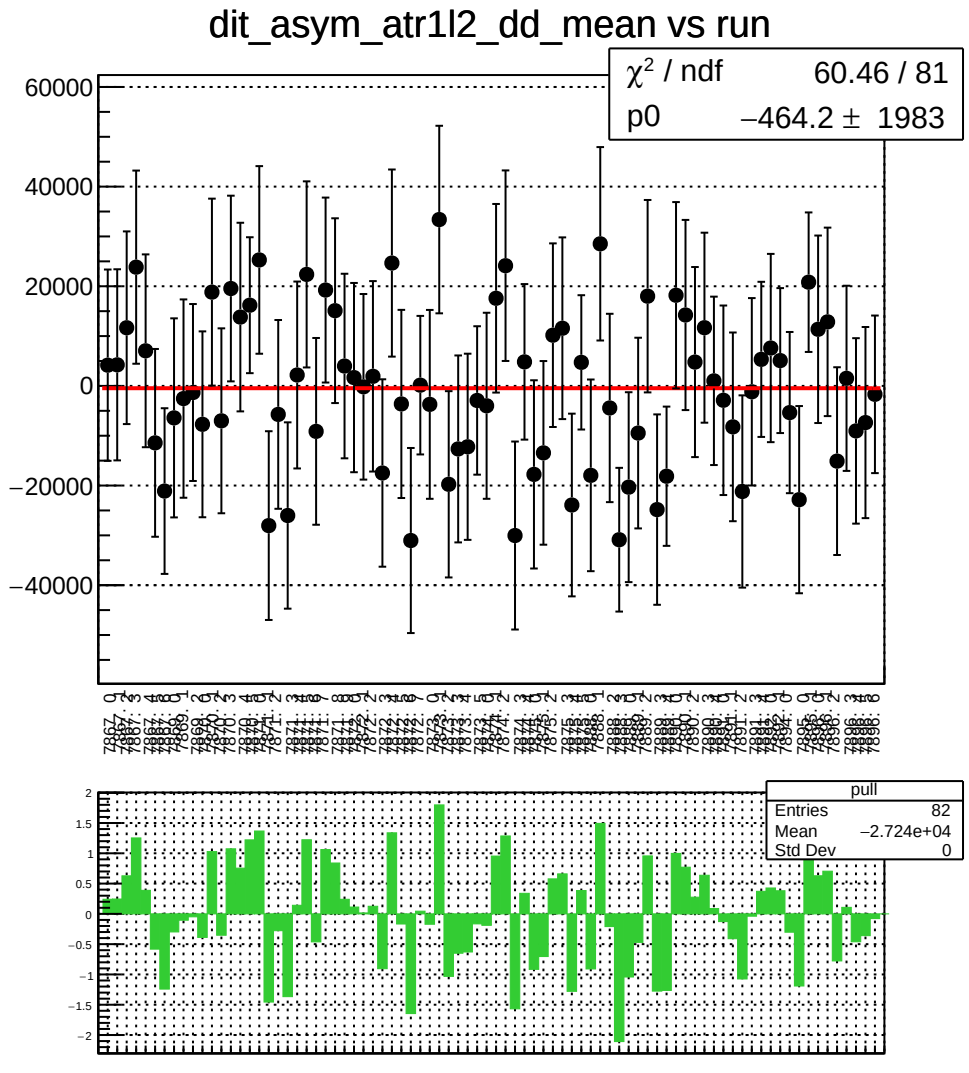

pull1D
Entries 82
Mean 0.0009175
Std Dev 0.8738

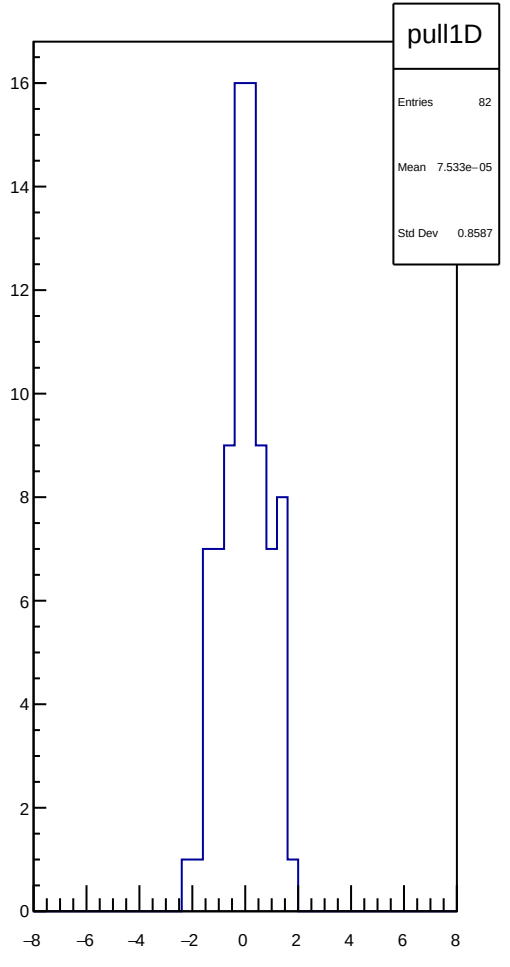

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 431.8 / 81
p0 1775 ± 1.39
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

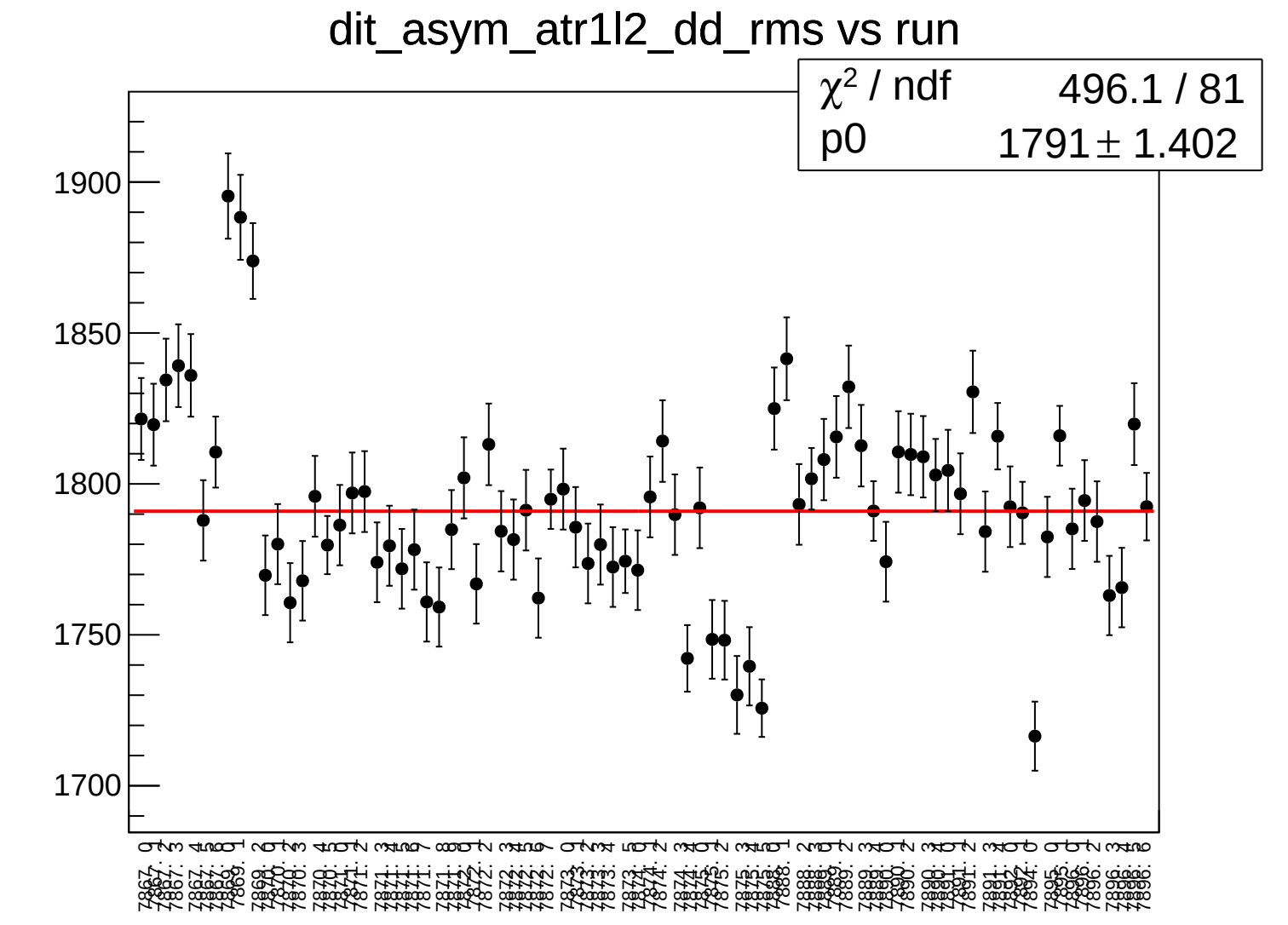

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.51 / 81
p0 −2309 ± 4464
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −148.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

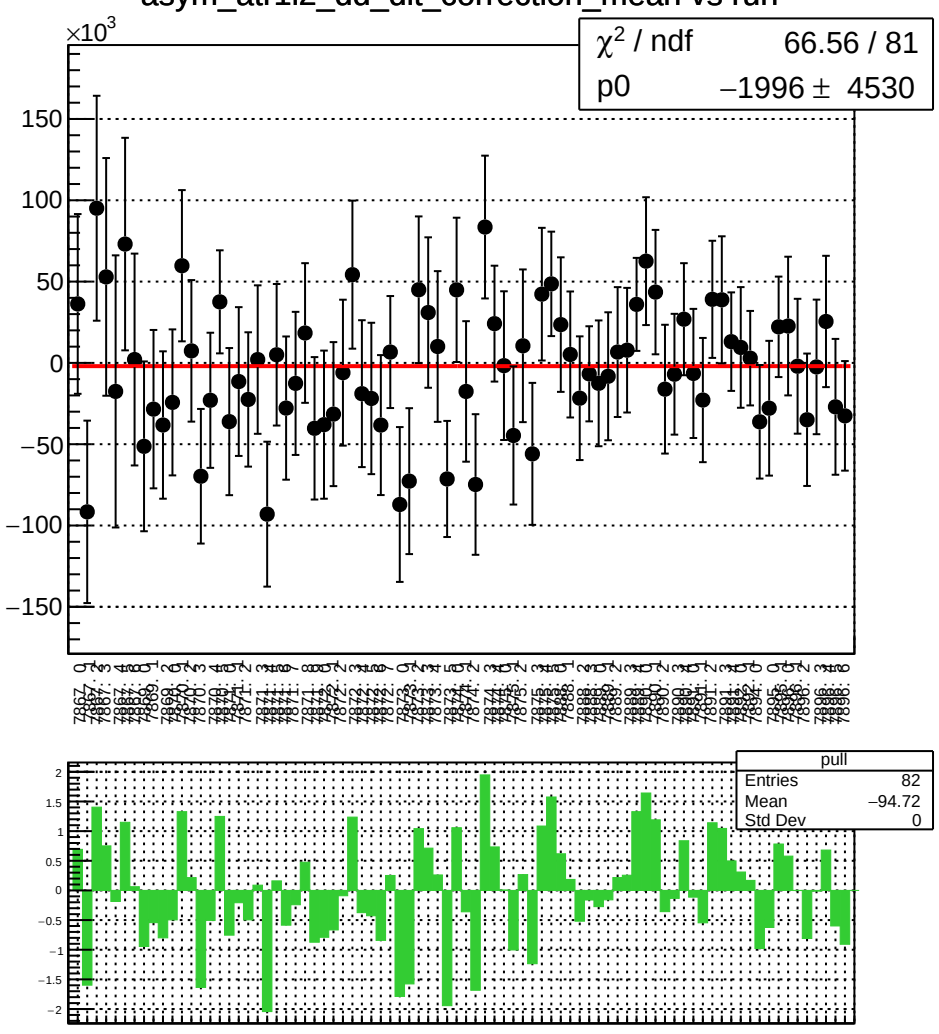

pull1D
Entries 82
Mean −0.01496
Std Dev 0.9005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

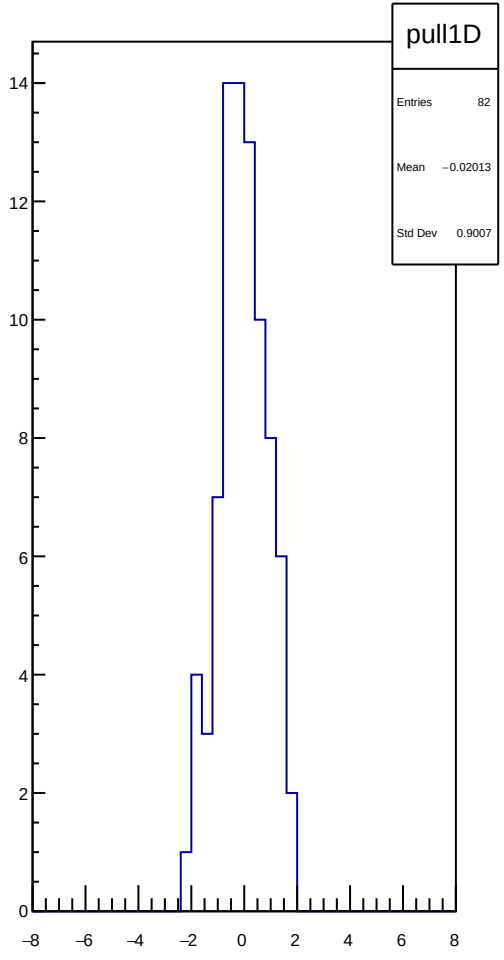

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.38e+04 / 81
p0 4003 ± 3.156
8000
7000
6000
5000
4000

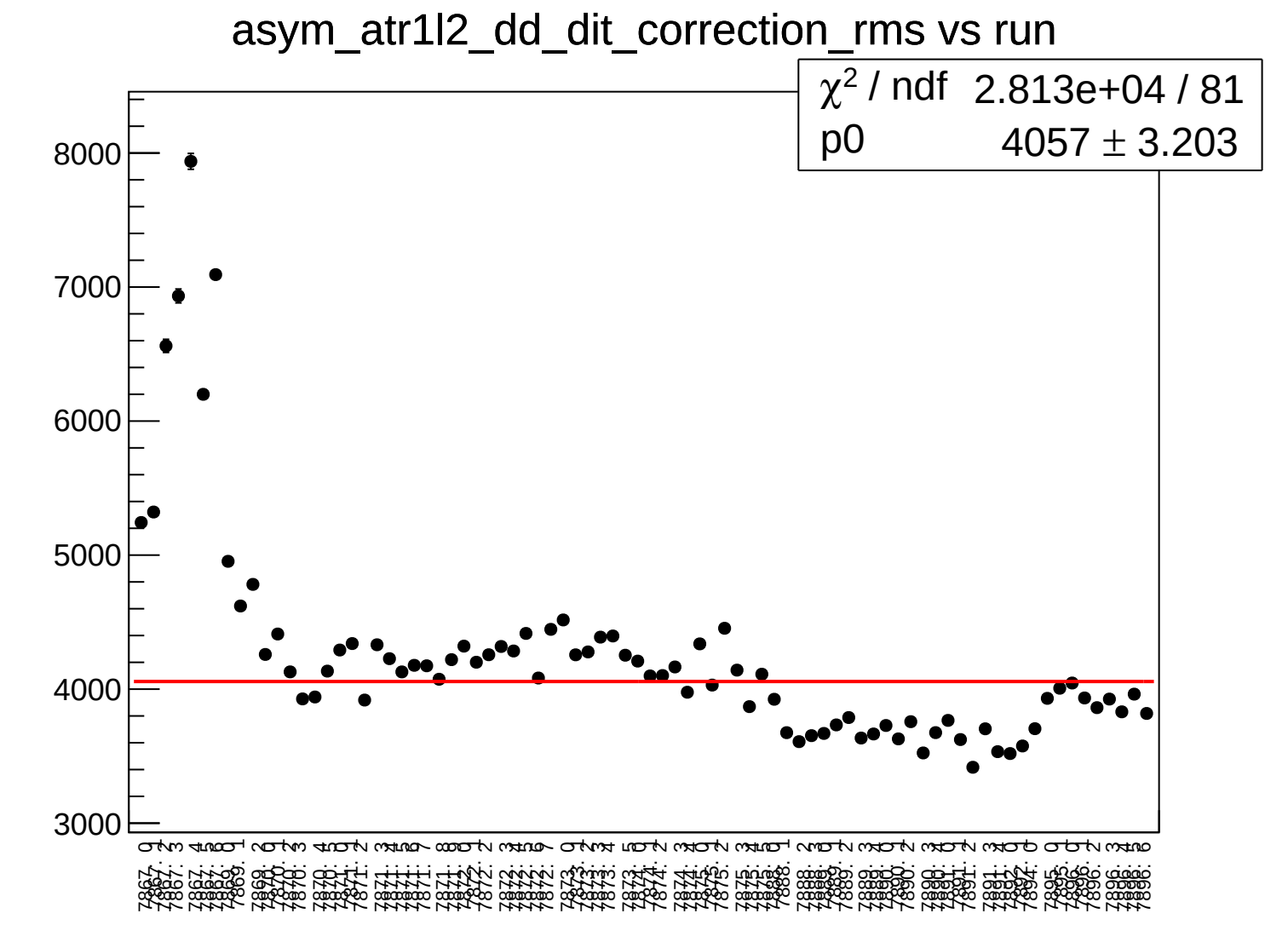

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 60.46 / 81
p0 −464.2 ± 1983
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −2.724e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

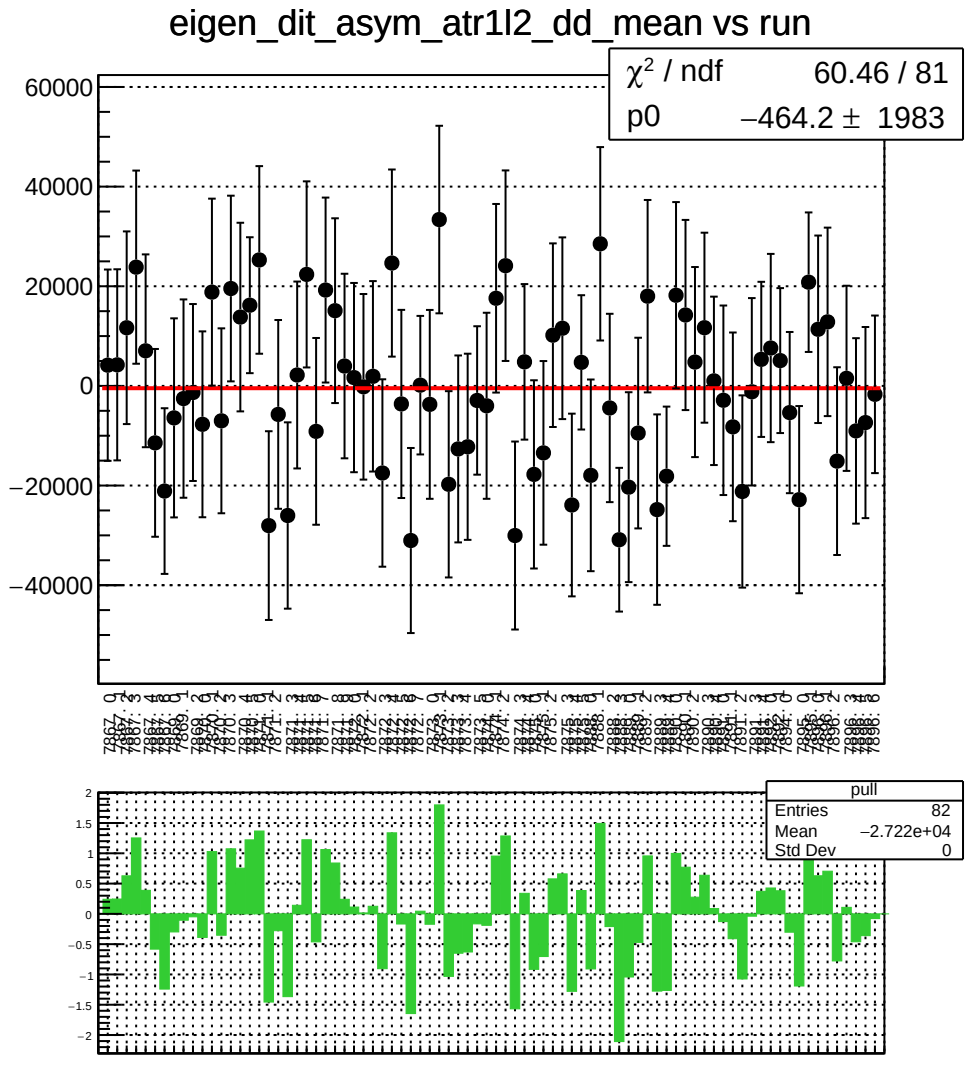

pull1D
Entries 82
Mean 7.533e−05
Std Dev 0.8587
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

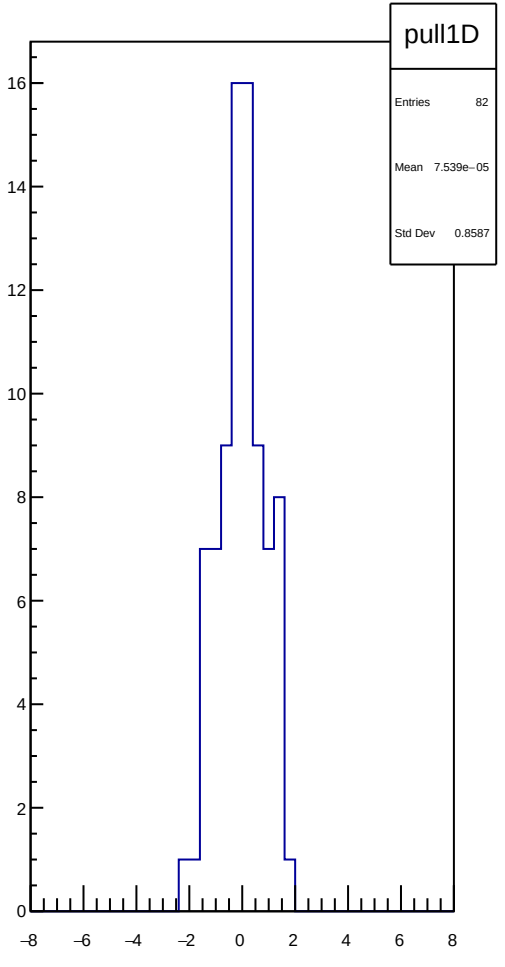

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 496.1 / 81
p0 1791 ± 1.402
1900
1850
1800
1750
1700

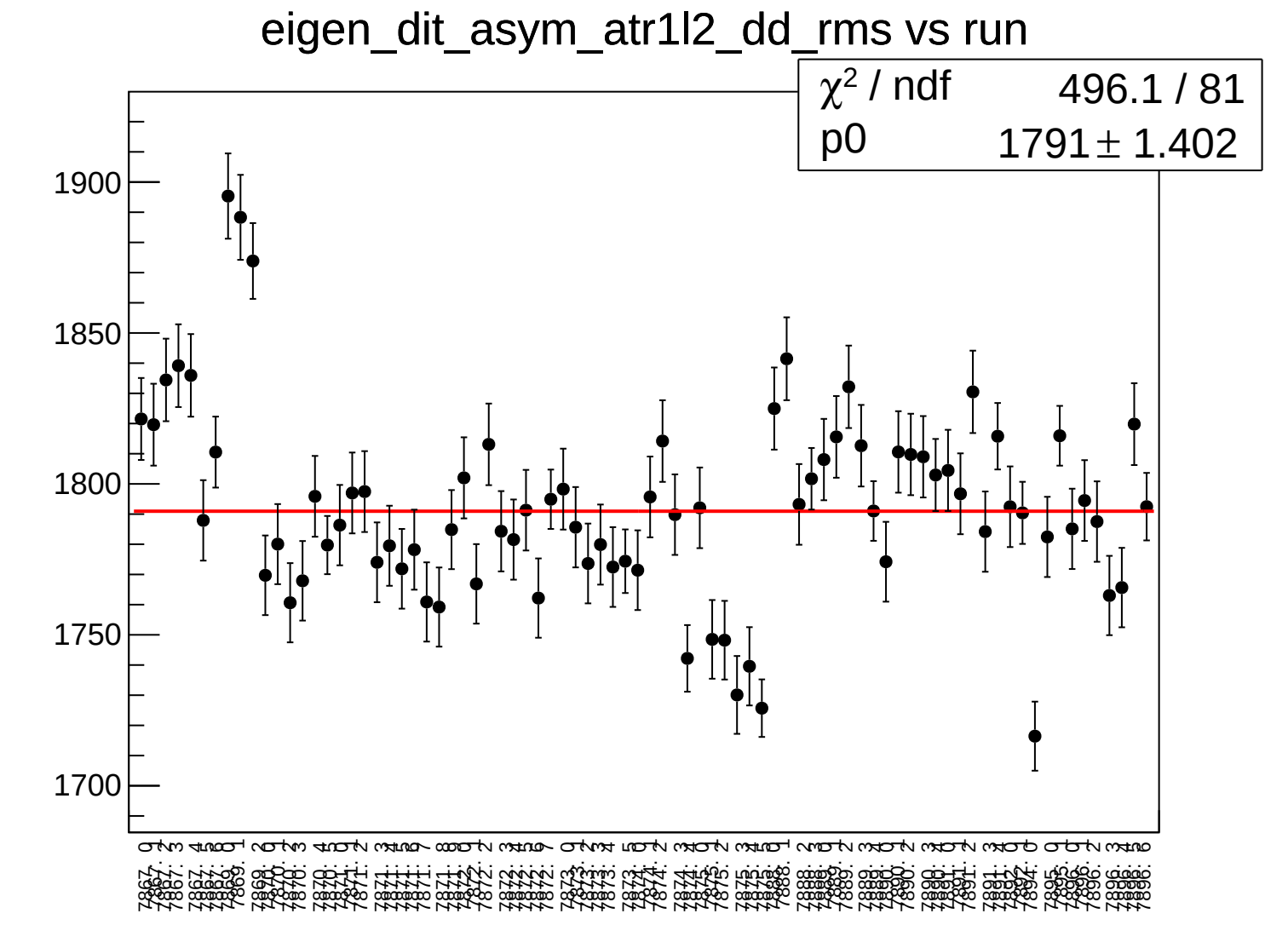

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.56 / 81
p0 −1996 ± 4530
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −94.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

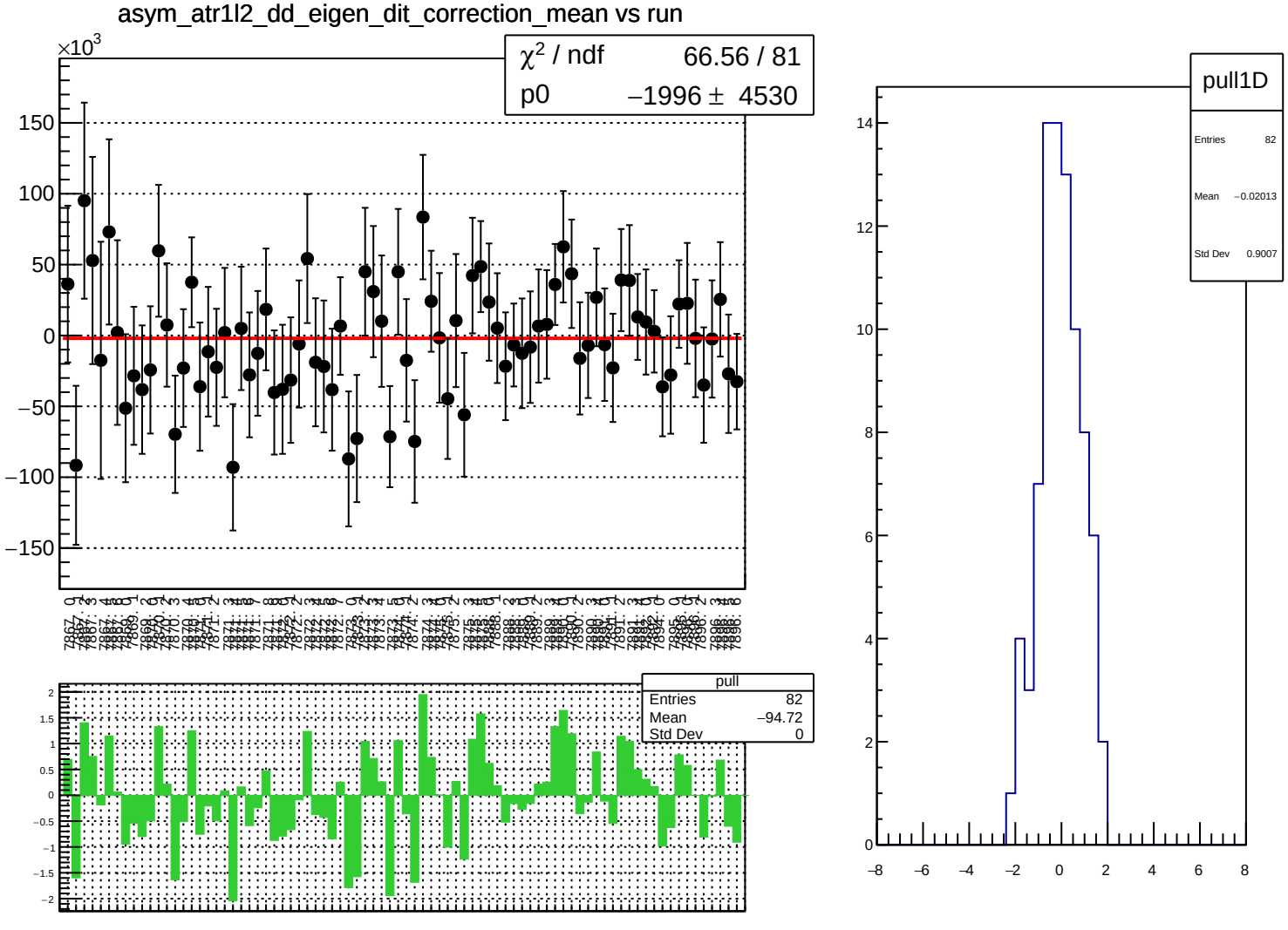

pull1D
Entries 82
Mean −0.02013
Std Dev 0.9007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

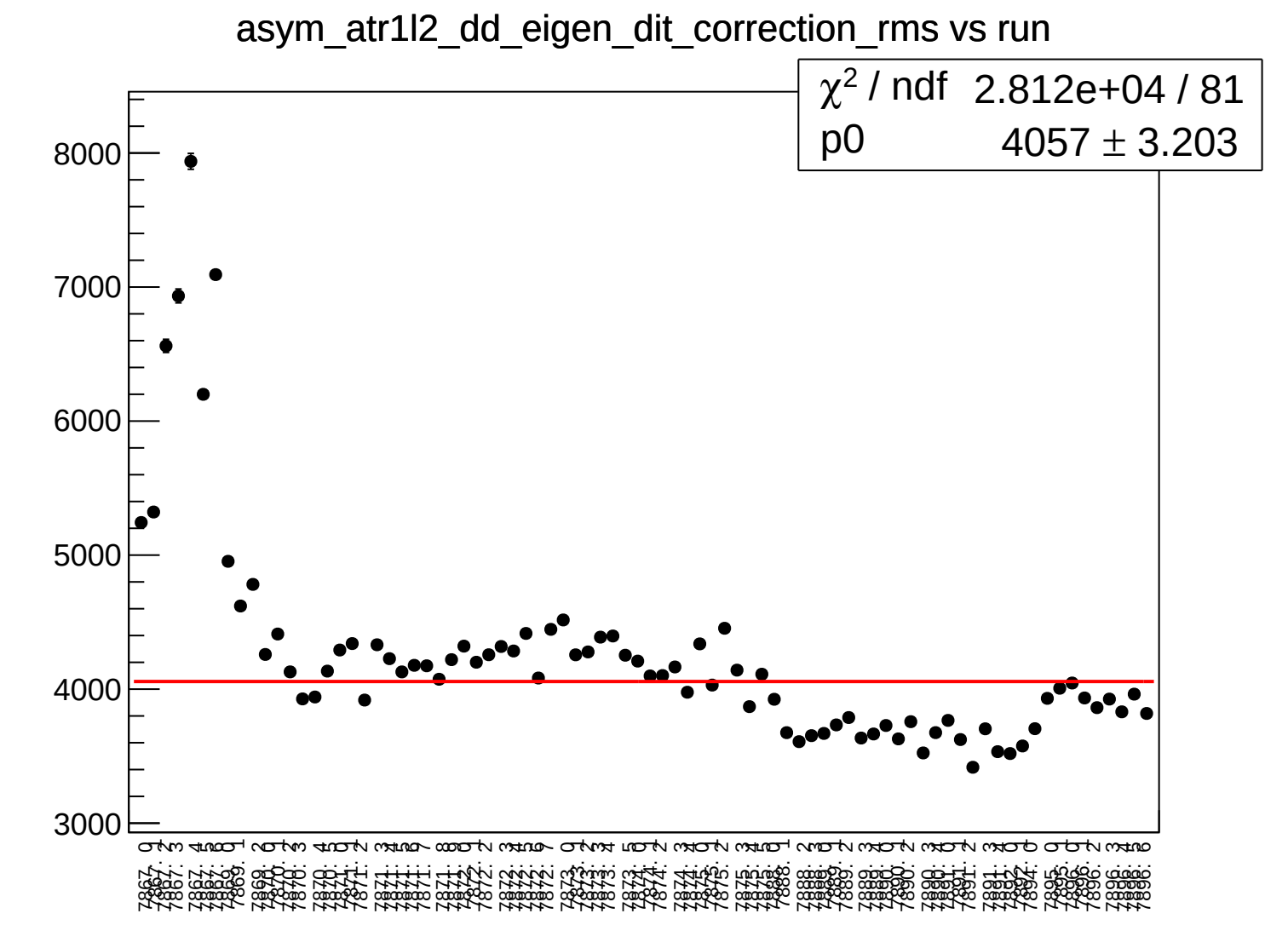

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2.813e+04 / 81
p0 4057 ± 3.203
8000
7000
6000
5000
4000
3000

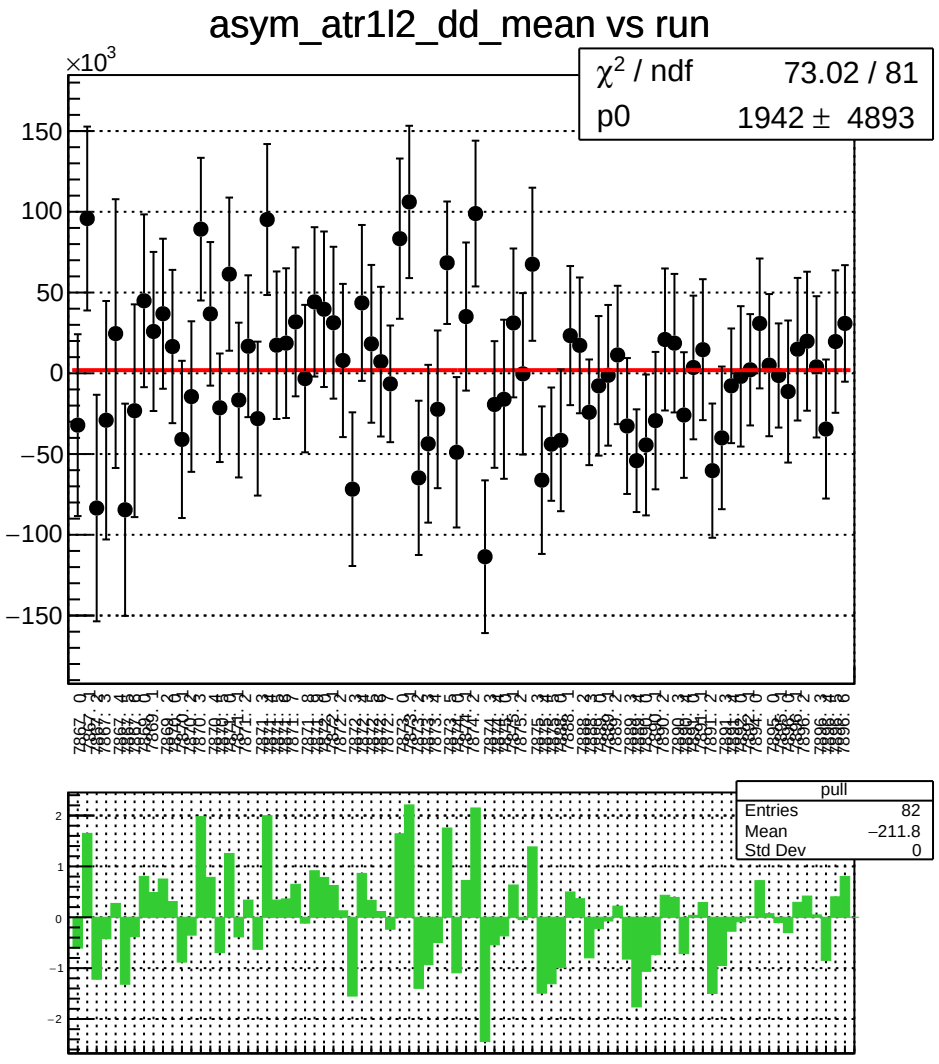

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 60.46 / 81
p0 −464.2 ± 1983
pull
Entries 82
Mean −2.722e+04
Std Dev 0

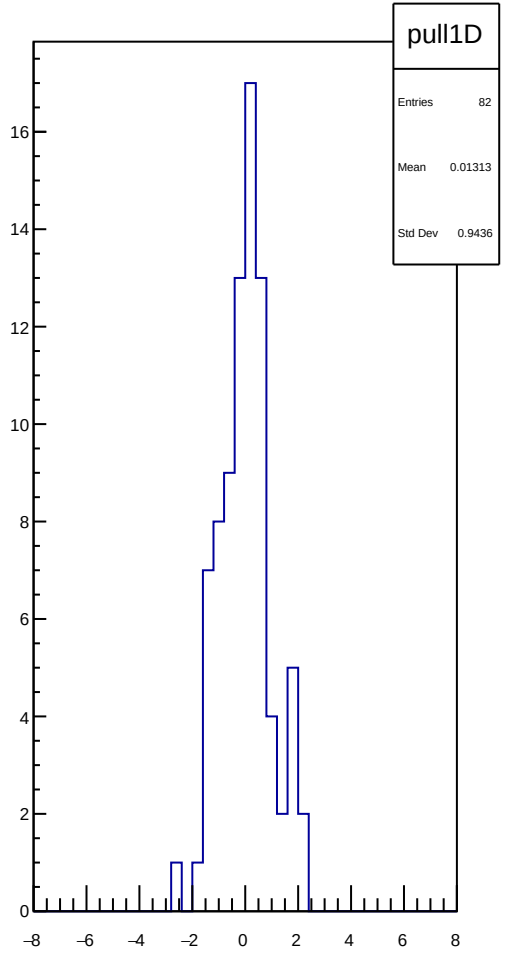

pull1D
Entries 82
Mean 7.539e−05
Std Dev 0.8587

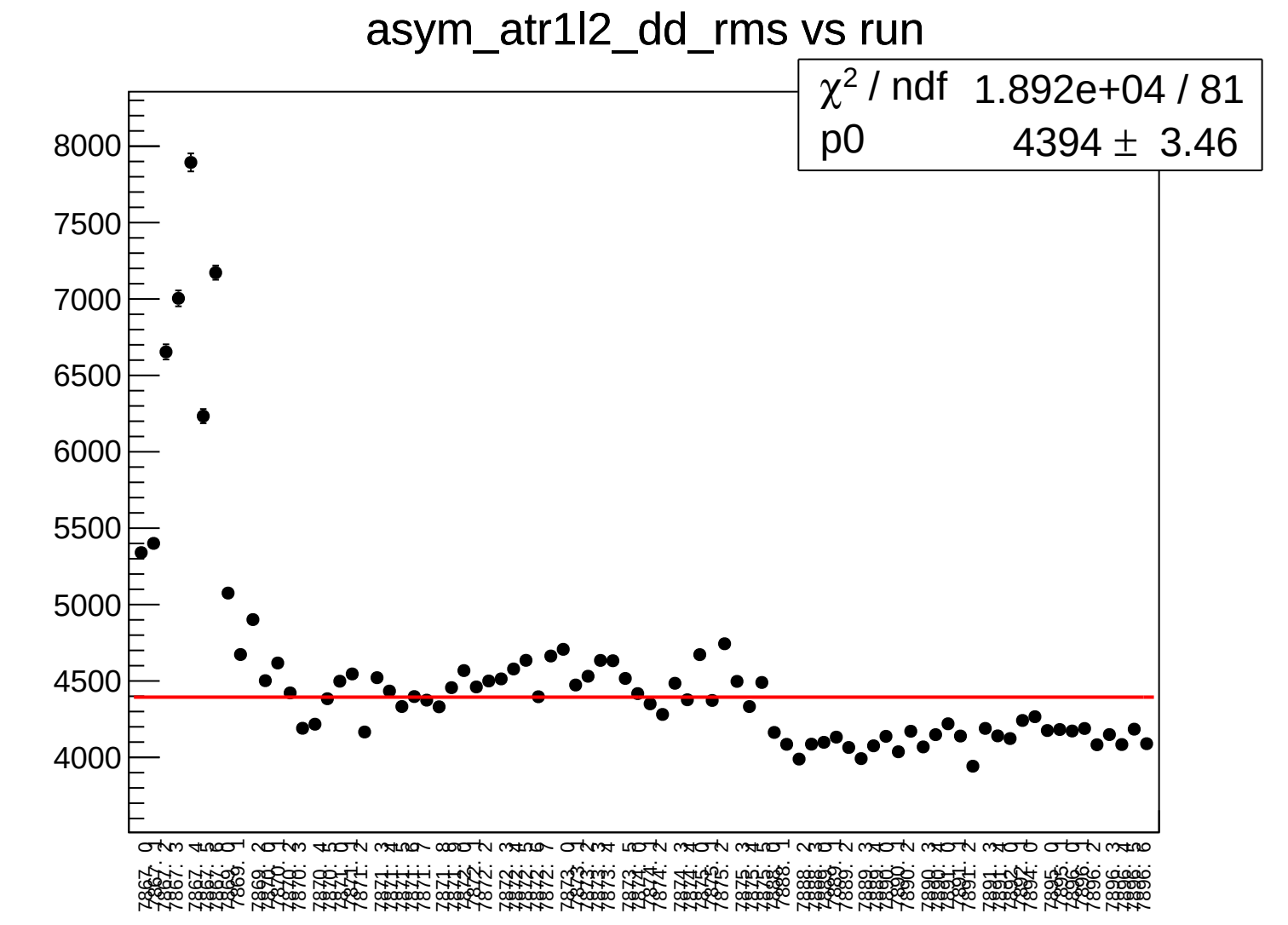

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 496.1 / 81
p0 1791 ± 1.402
1900
1850
1800
1750
1700

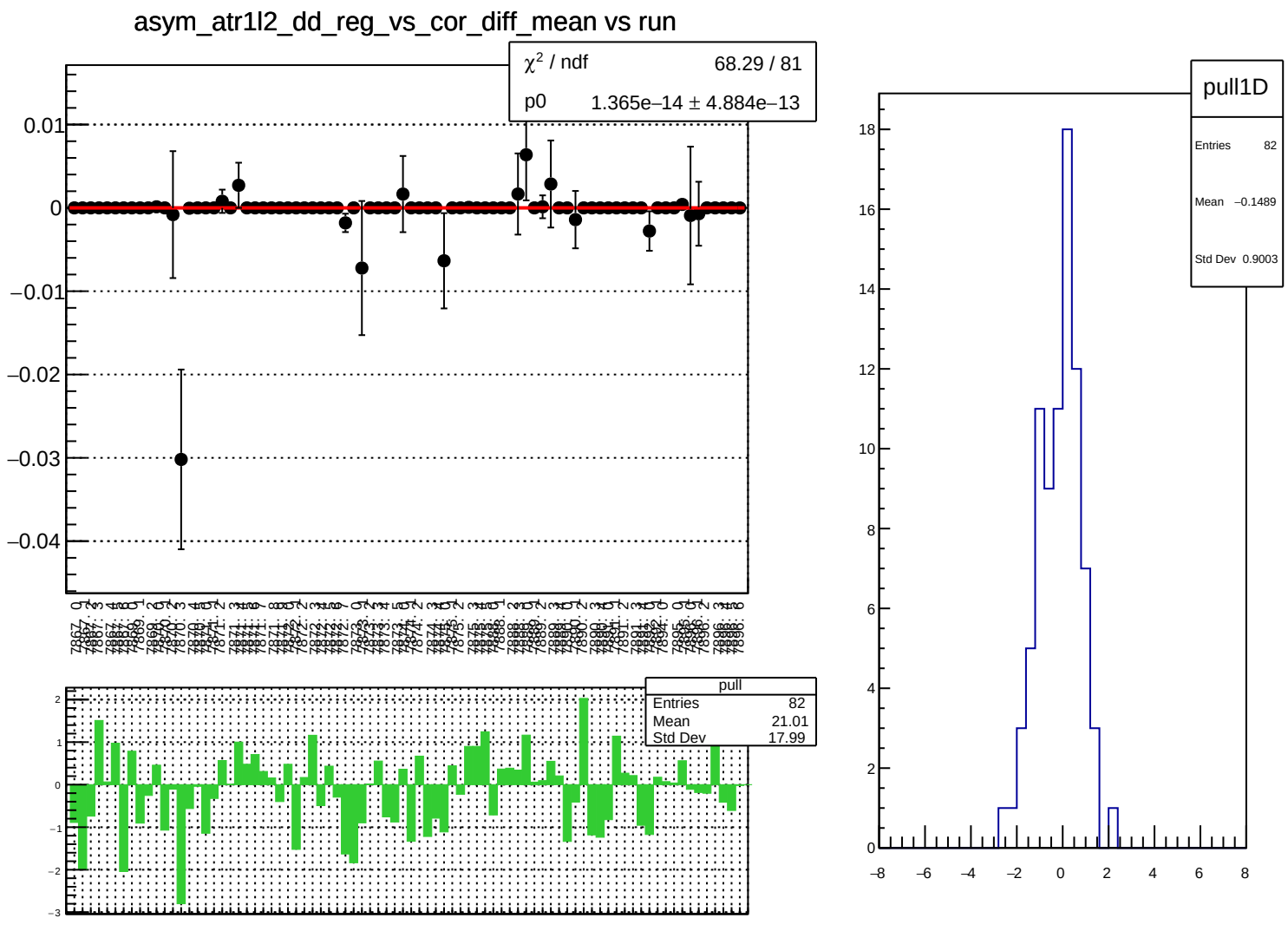

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.56 / 81
p0 −1996 ± 4530
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −94.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.02013
Std Dev 0.9007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

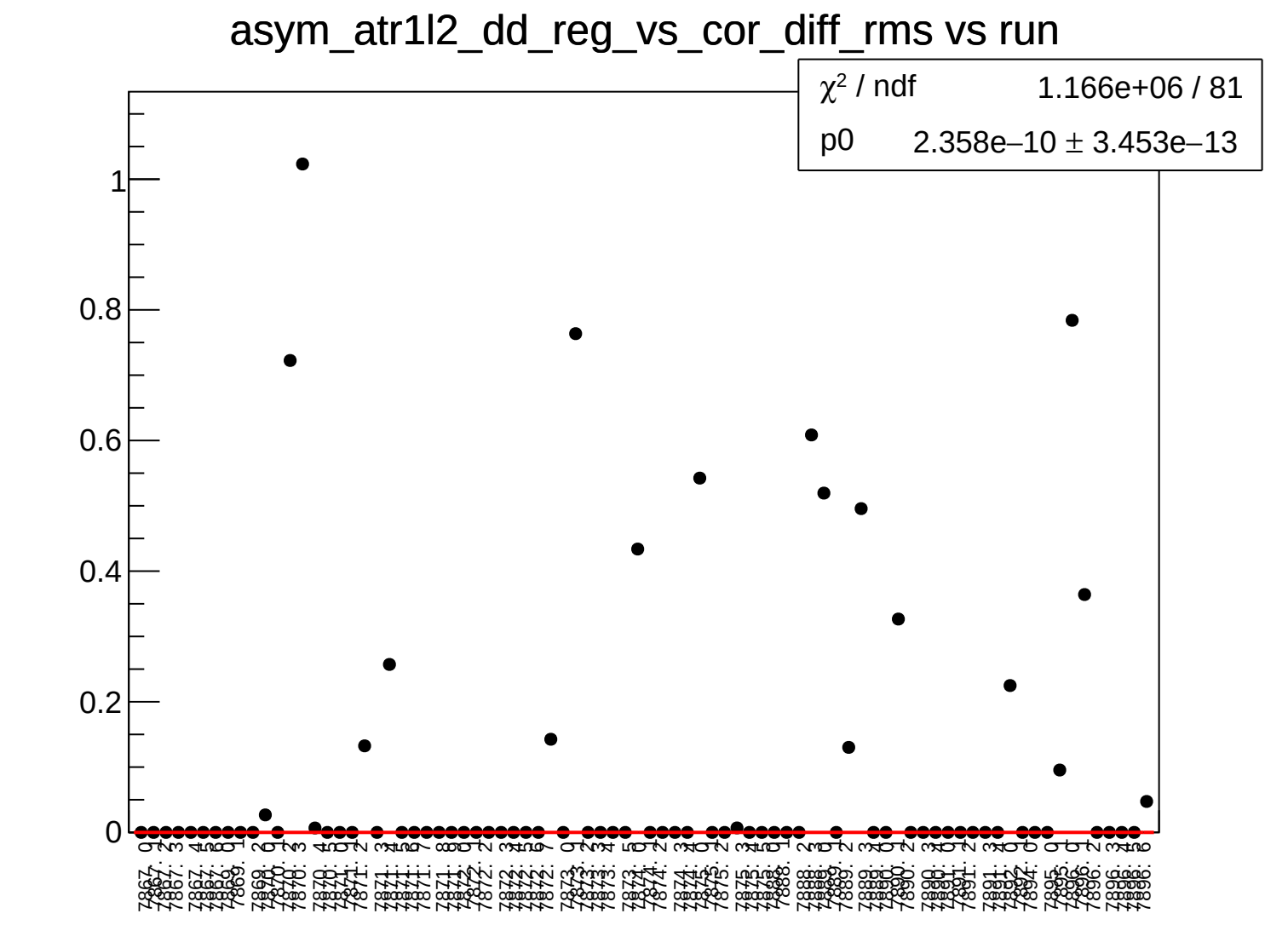

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.812e+04 / 81
p0 4057 ± 3.203
8000
7000
6000
5000
4000
3000

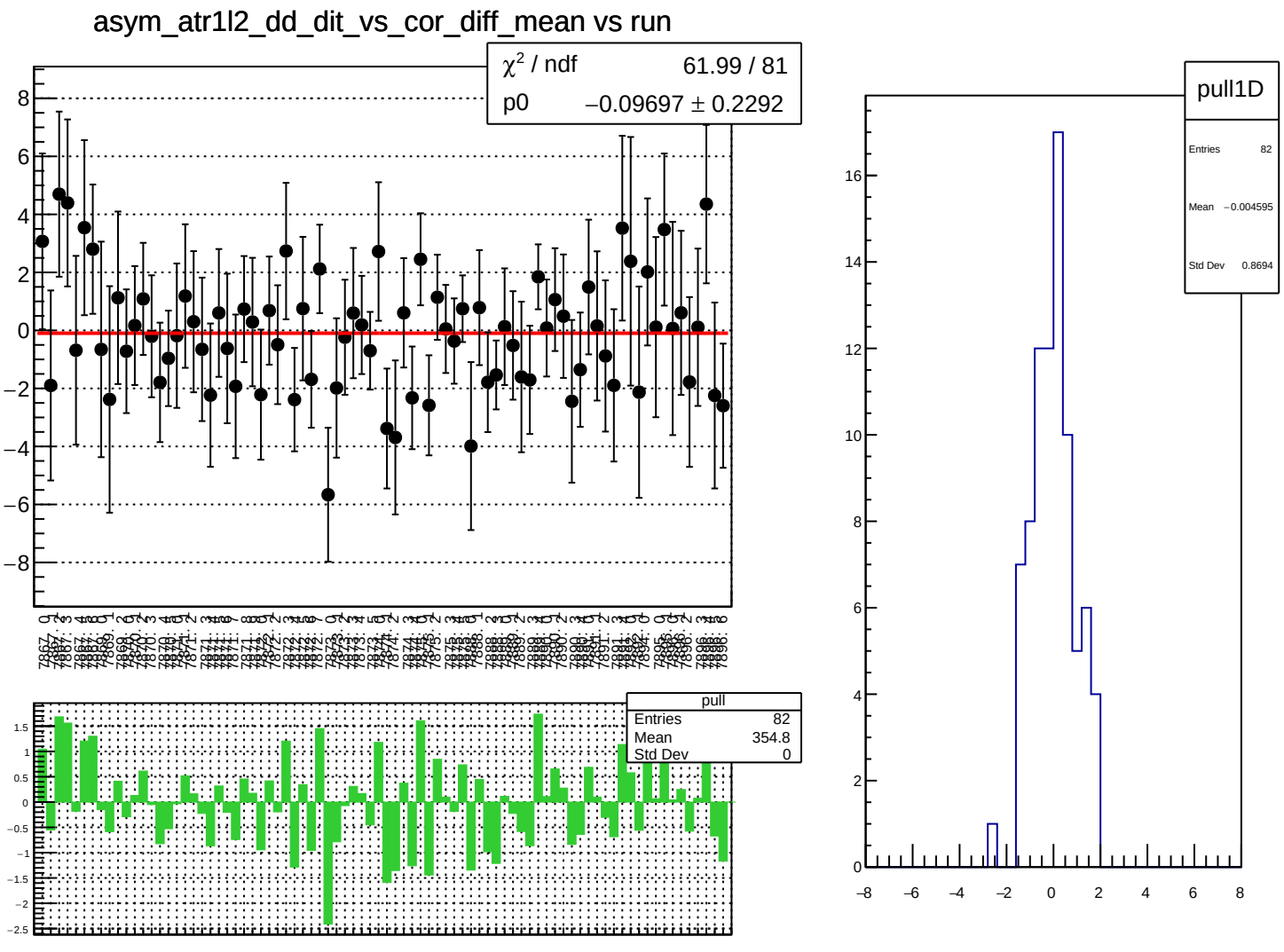

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 73.02 / 81
p0 1942 ± 4893
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −211.8
Std Dev 0
2
1
0
−1
−2

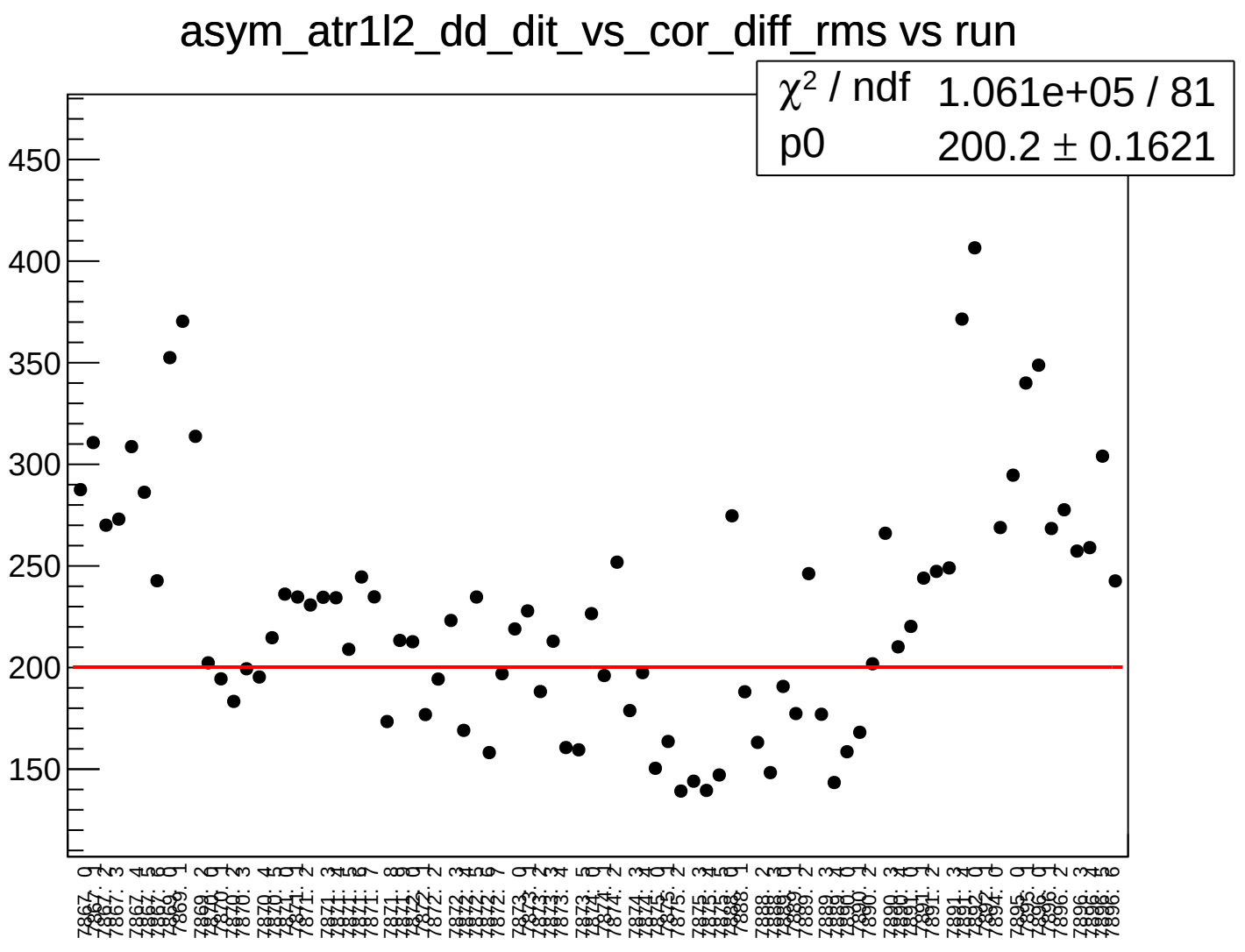

pull1D
Entries 82
Mean 0.01313
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

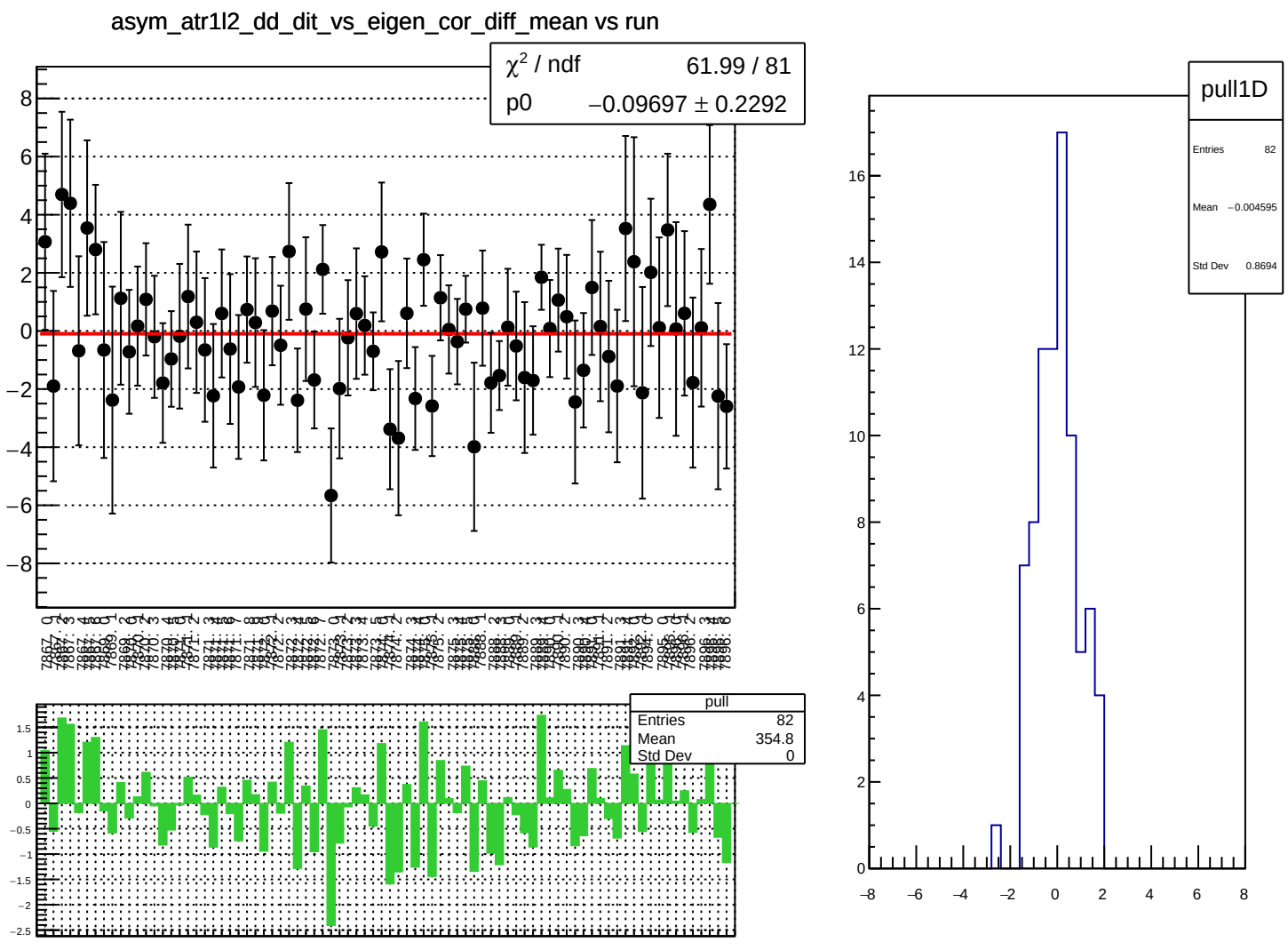

asym_atr1l2_dd_rms vs run
χ² / ndf 1.892e+04 / 81
p0 4394 ± 3.46
8000
7500
7000
6500
6000
5500
5000
4500
4000

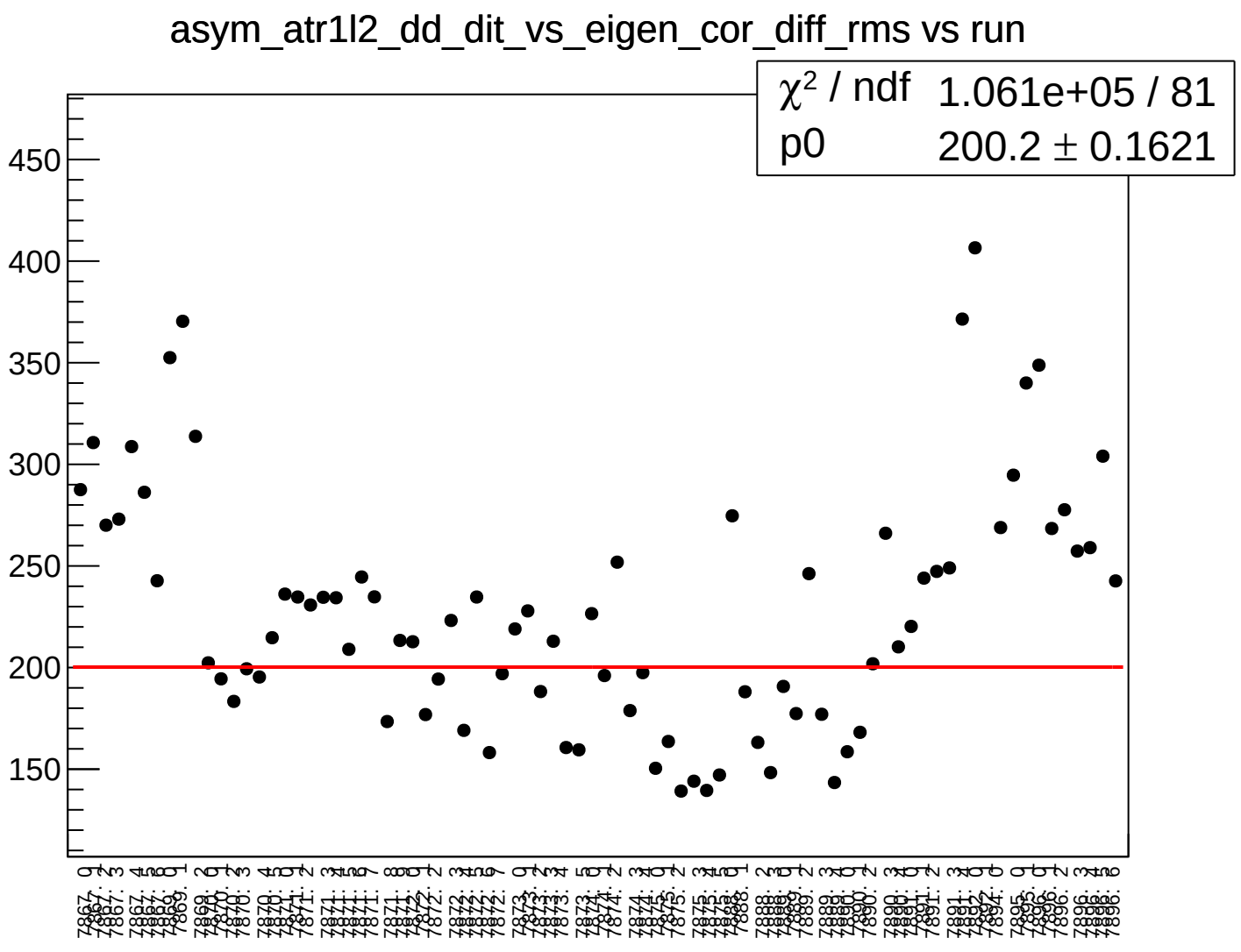

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.29 / 81
p0 1.365e−14 ± 4.884e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 82
Mean 21.01
Std Dev 17.99
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.1489
Std Dev 0.9003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

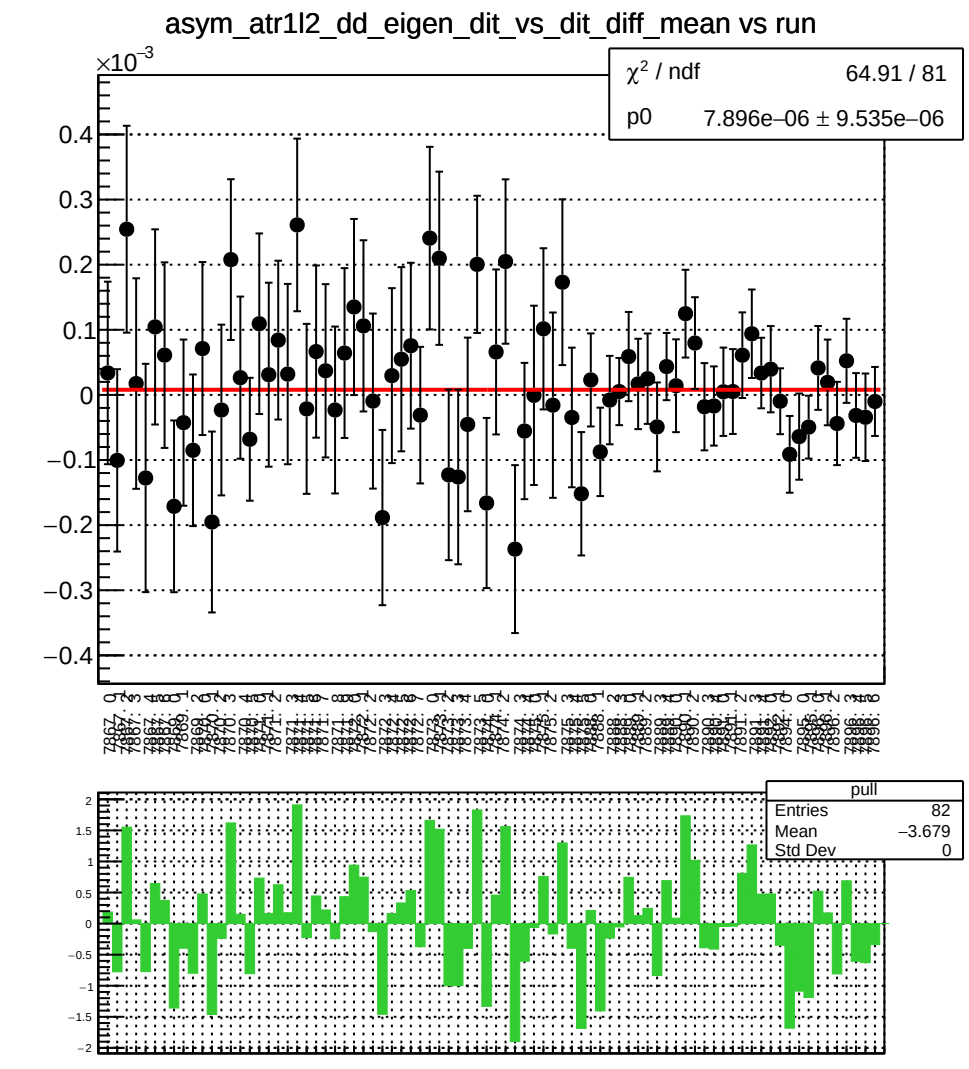

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 81
p0 2.358e−10 ± 3.453e−13
1
0.8
0.6
0.4
0.2
0

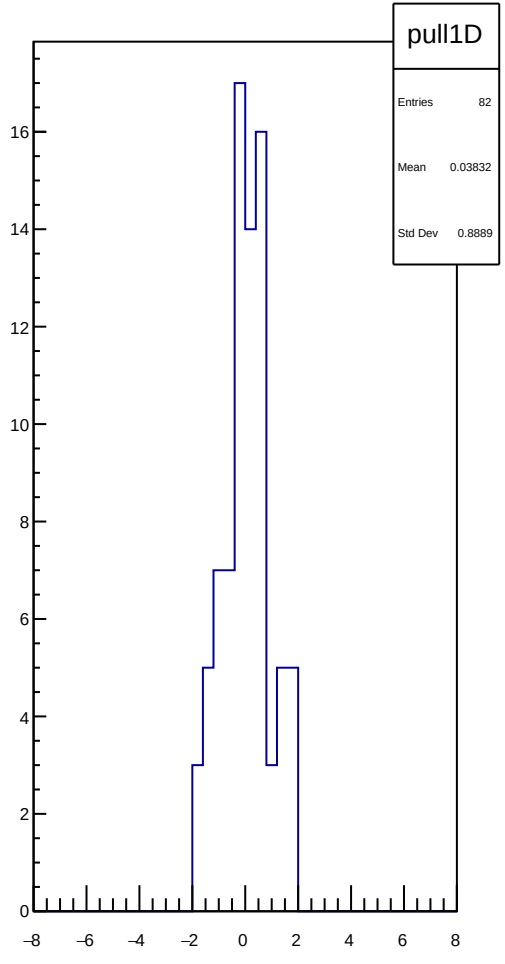

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.99 / 81
p0 −0.09697 ± 0.2292
pull
Entries 82
Mean 354.8
Std Dev 0
pull1D
Entries 82
Mean −0.004595
Std Dev 0.8694

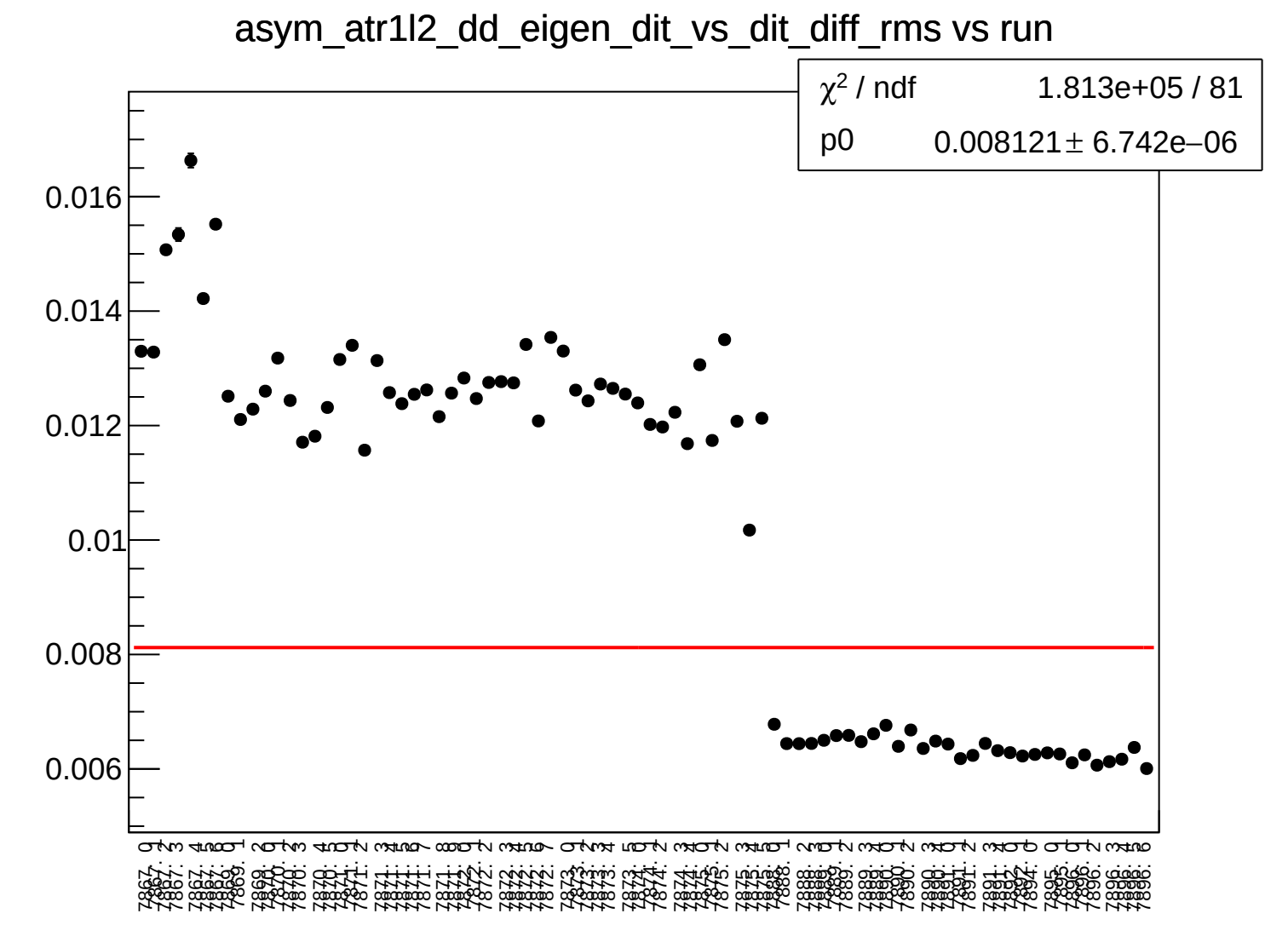

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 81
p0 200.2 ± 0.1621
450
400
350
300
250
200
150

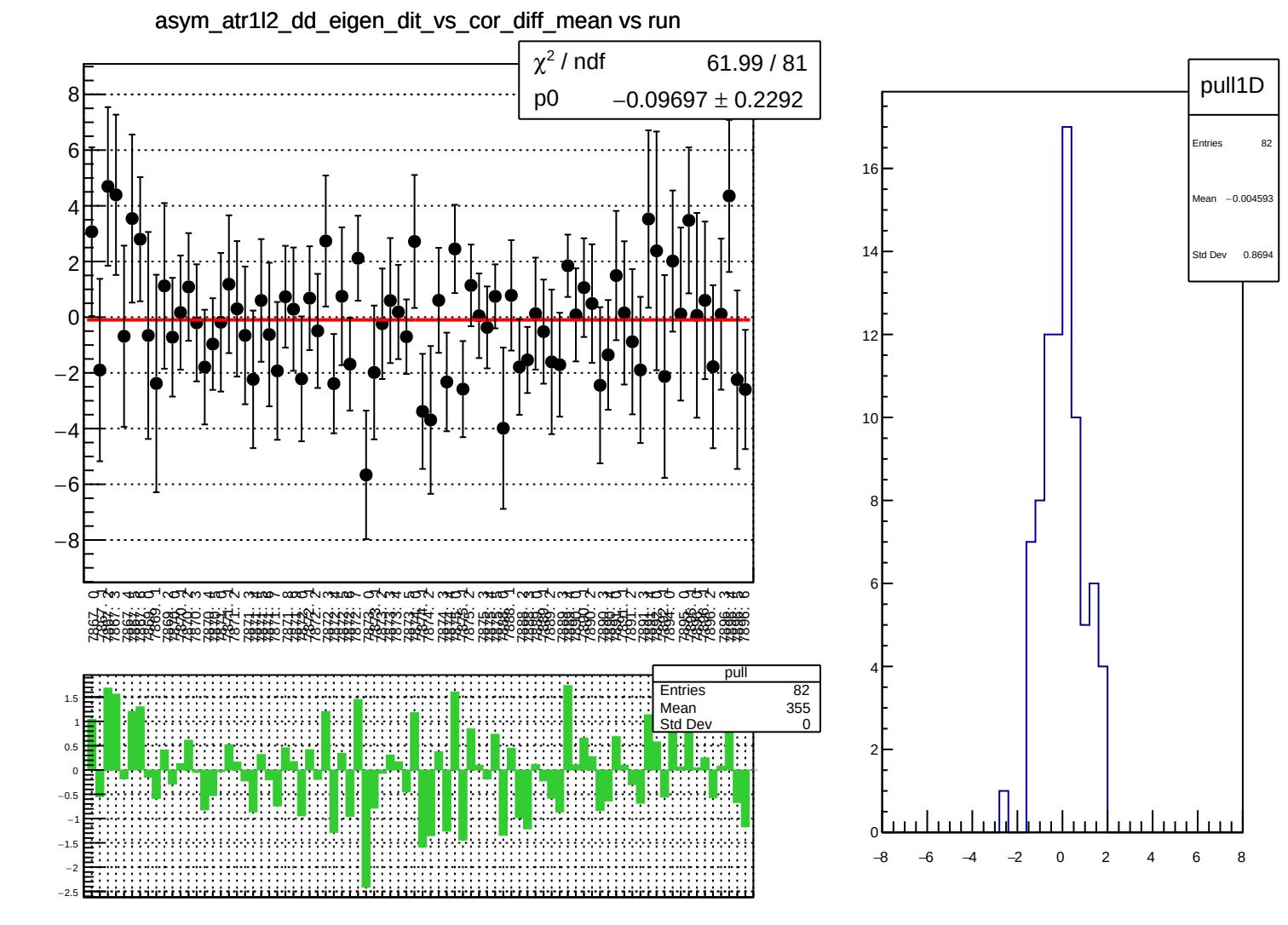

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.99 / 81
p0 −0.09697 ± 0.2292
pull
Entries 82
Mean 354.8
Std Dev 0
pull1D
Entries 82
Mean −0.004595
Std Dev 0.8694

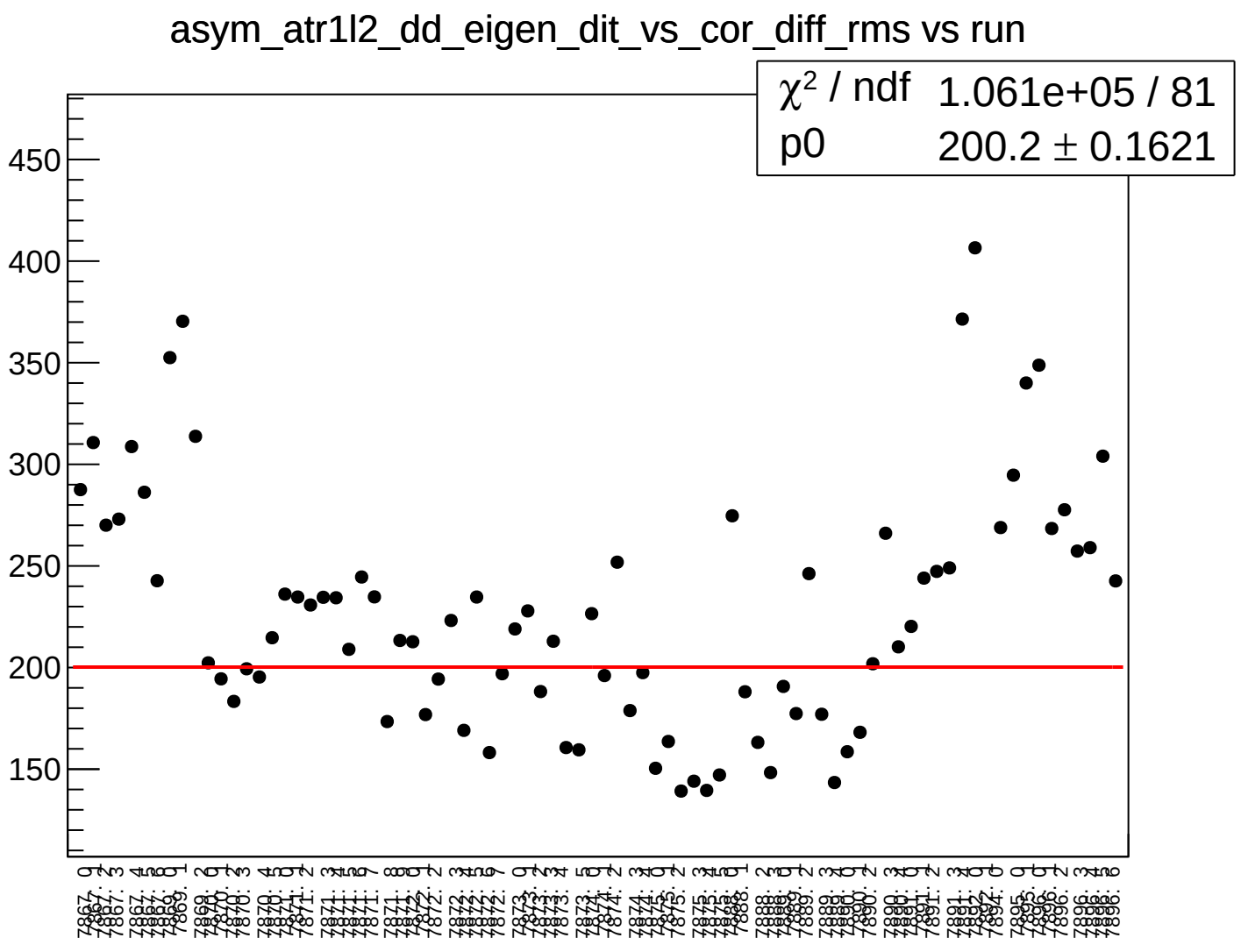

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 81
p0 200.2 ± 0.1621
450
400
350
300
250
200
150

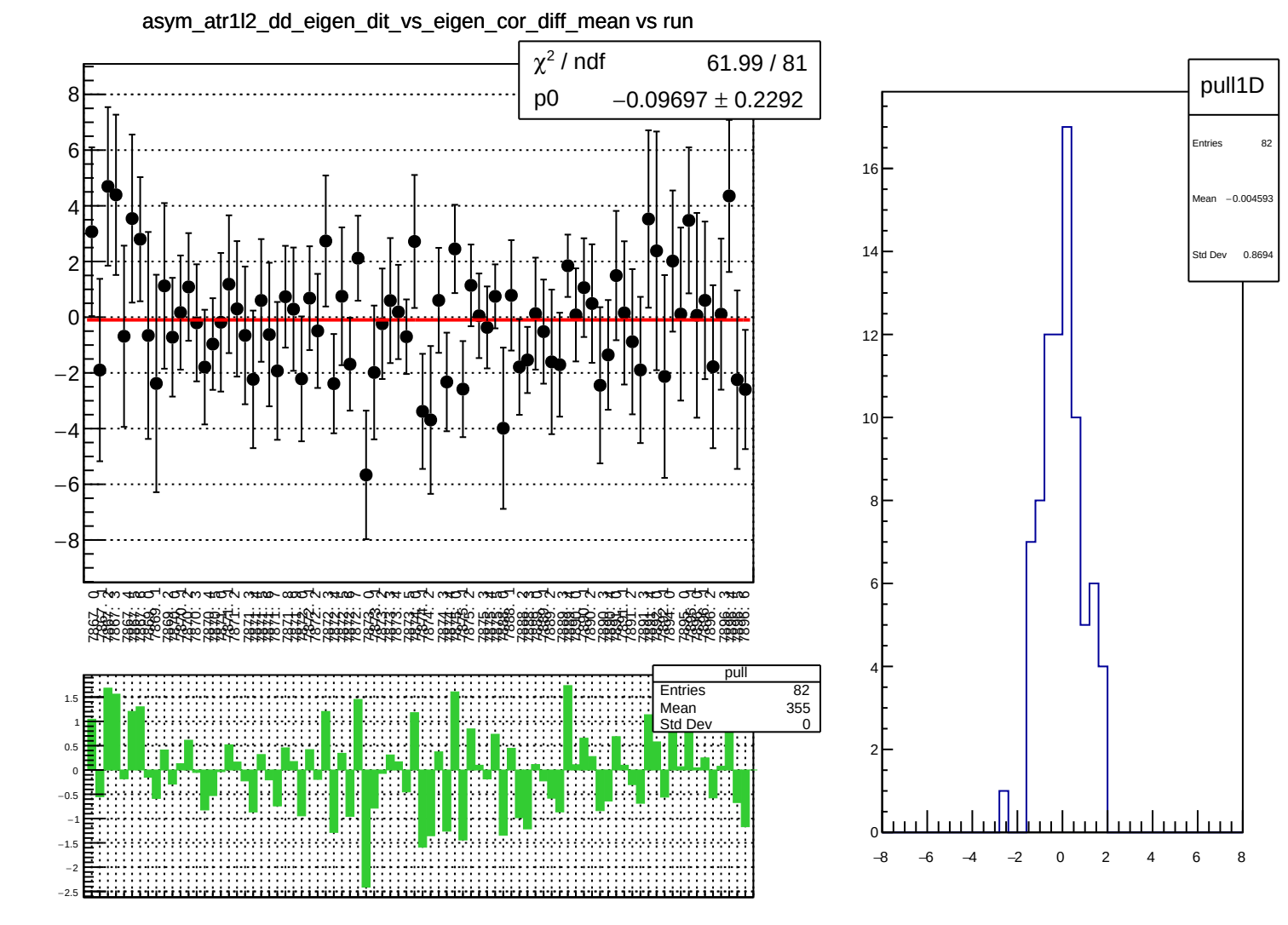

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.91 / 81
p0 7.896e−06 ± 9.535e−06
pull
Entries 82
Mean −3.679
Std Dev 0

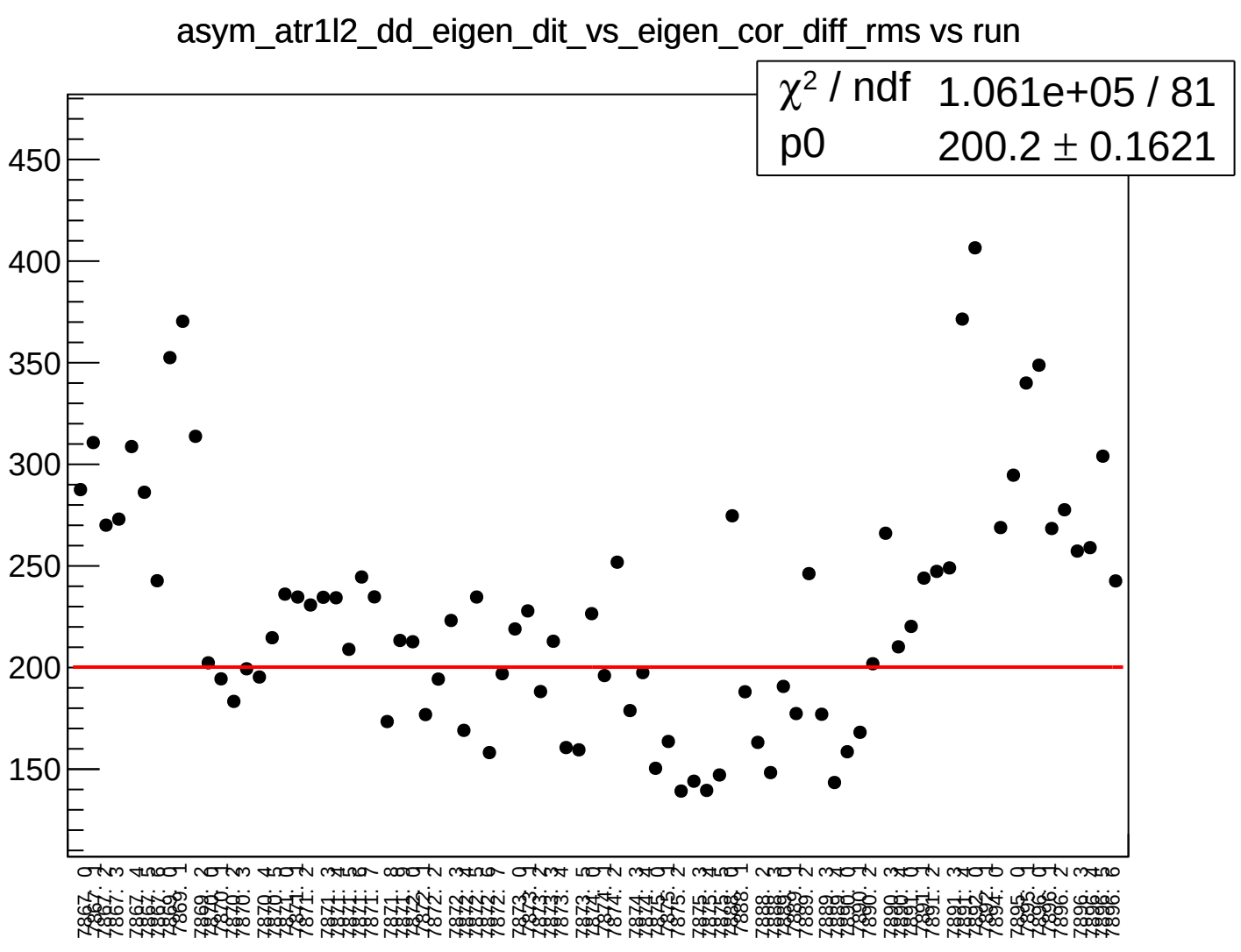

pull1D
Entries 82
Mean 0.03832
Std Dev 0.8889

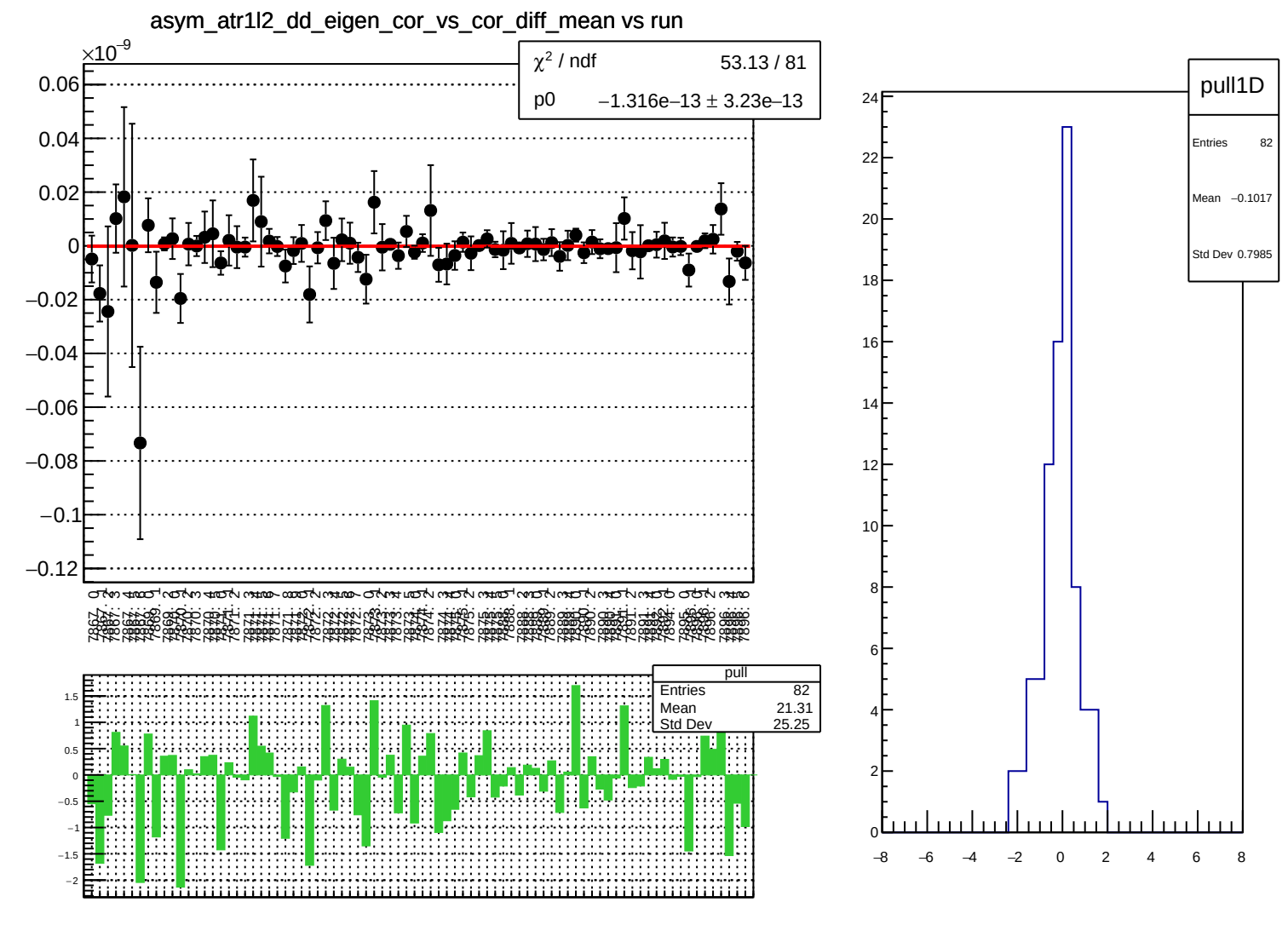

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.813e+05 / 81
p0 0.008121 ± 6.742e−06
0.016
0.014
0.012
0.01
0.008
0.006

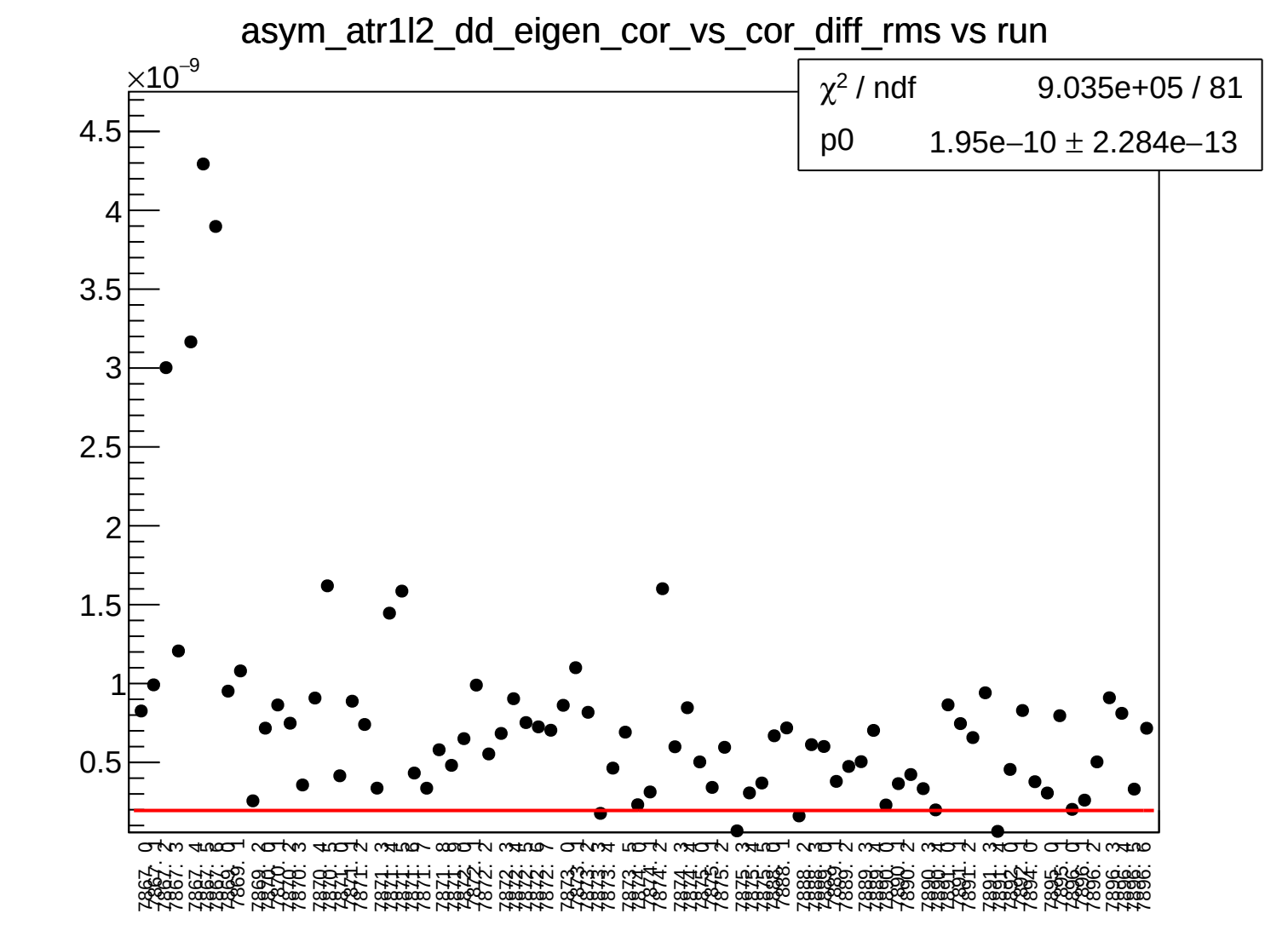

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.99 / 81
p0 −0.09697 ± 0.2292
pull
Entries 82
Mean 355
Std Dev 0
pull1D
Entries 82
Mean −0.004593
Std Dev 0.8694

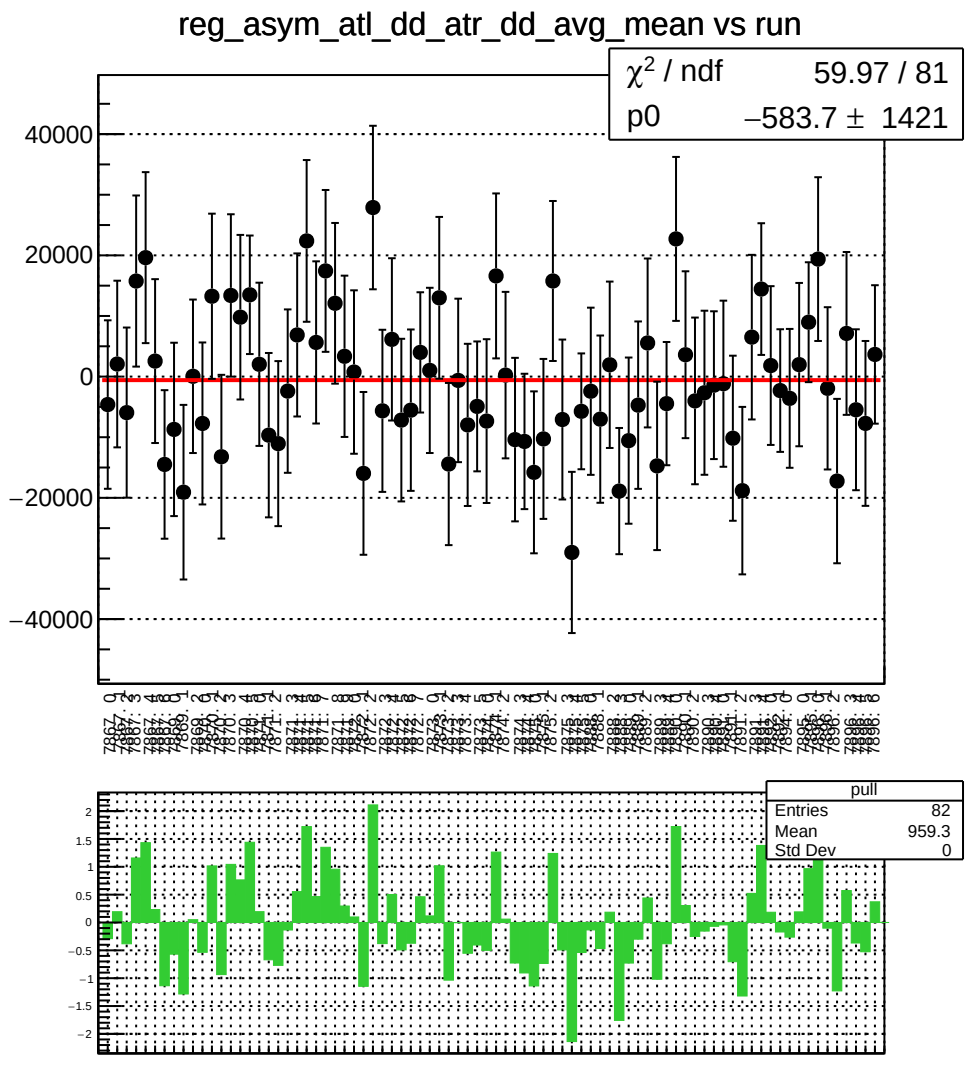

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 81
p0 200.2 ± 0.1621
450
400
350
300
250
200
150

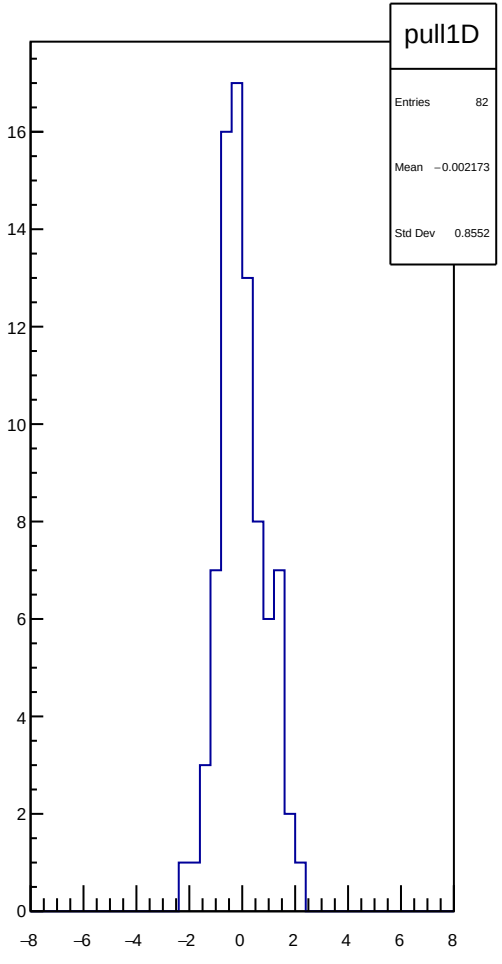

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.99 / 81
p0 −0.09697 ± 0.2292
pull
Entries 82
Mean 355
Std Dev 0
pull1D
Entries 82
Mean −0.004593
Std Dev 0.8694

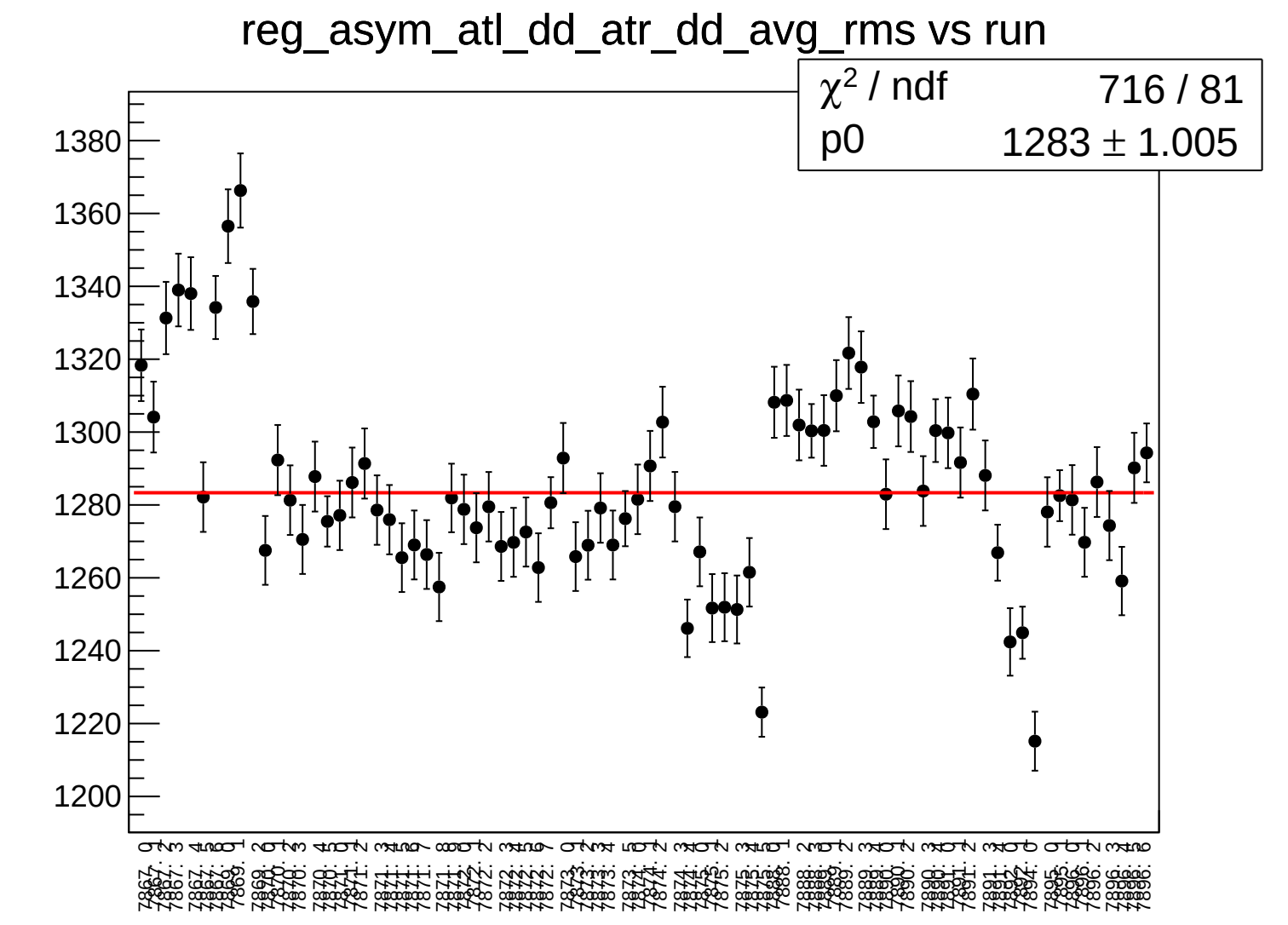

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 81
p0 200.2 ± 0.1621
450
400
350
300
250
200
150

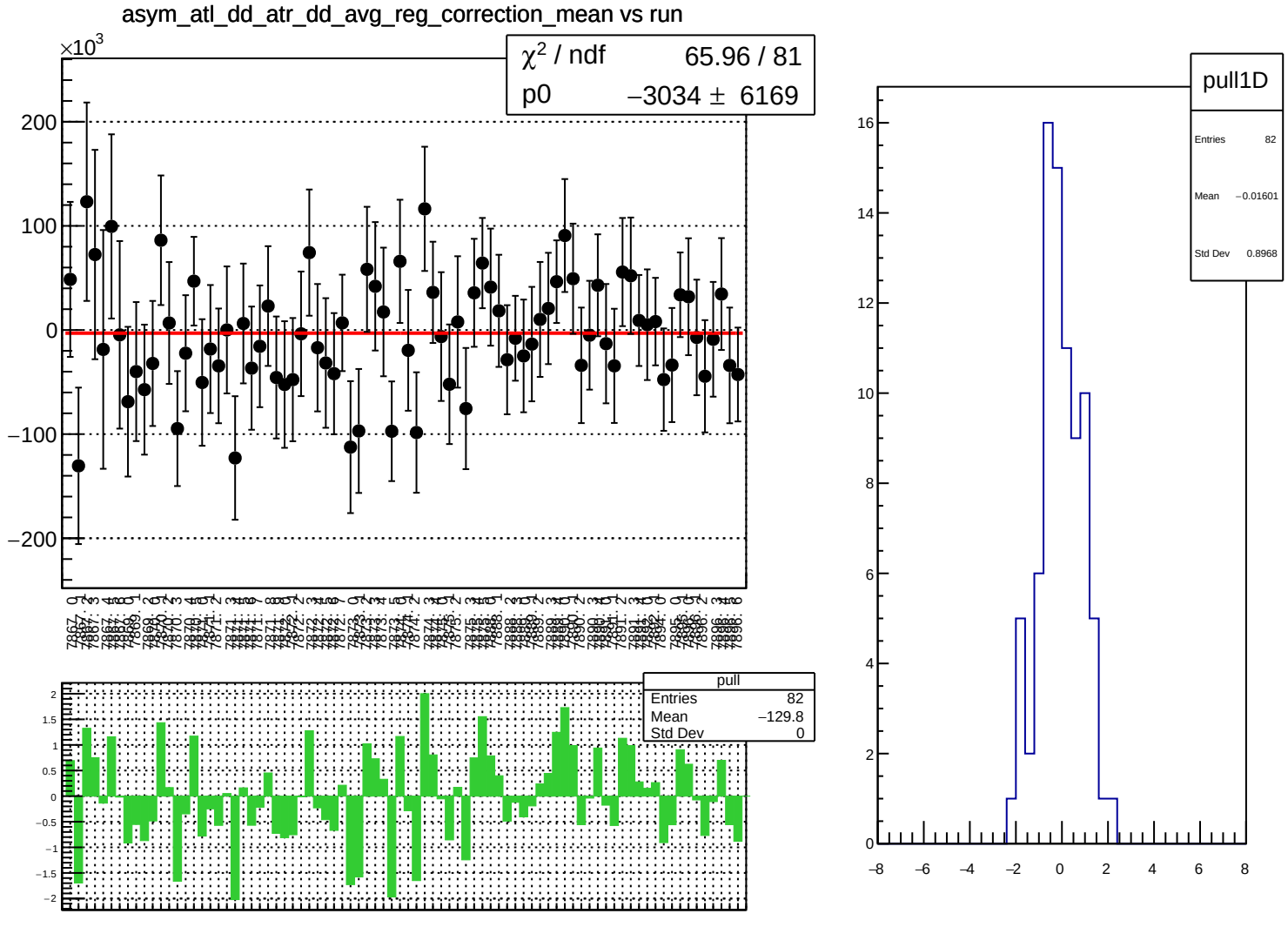

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 53.13 / 81
p0 −1.316e−13 ± 3.23e−13
pull
Entries 82
Mean 21.31
Std Dev 25.25
pull1D
Entries 82
Mean −0.1017
Std Dev 0.7985

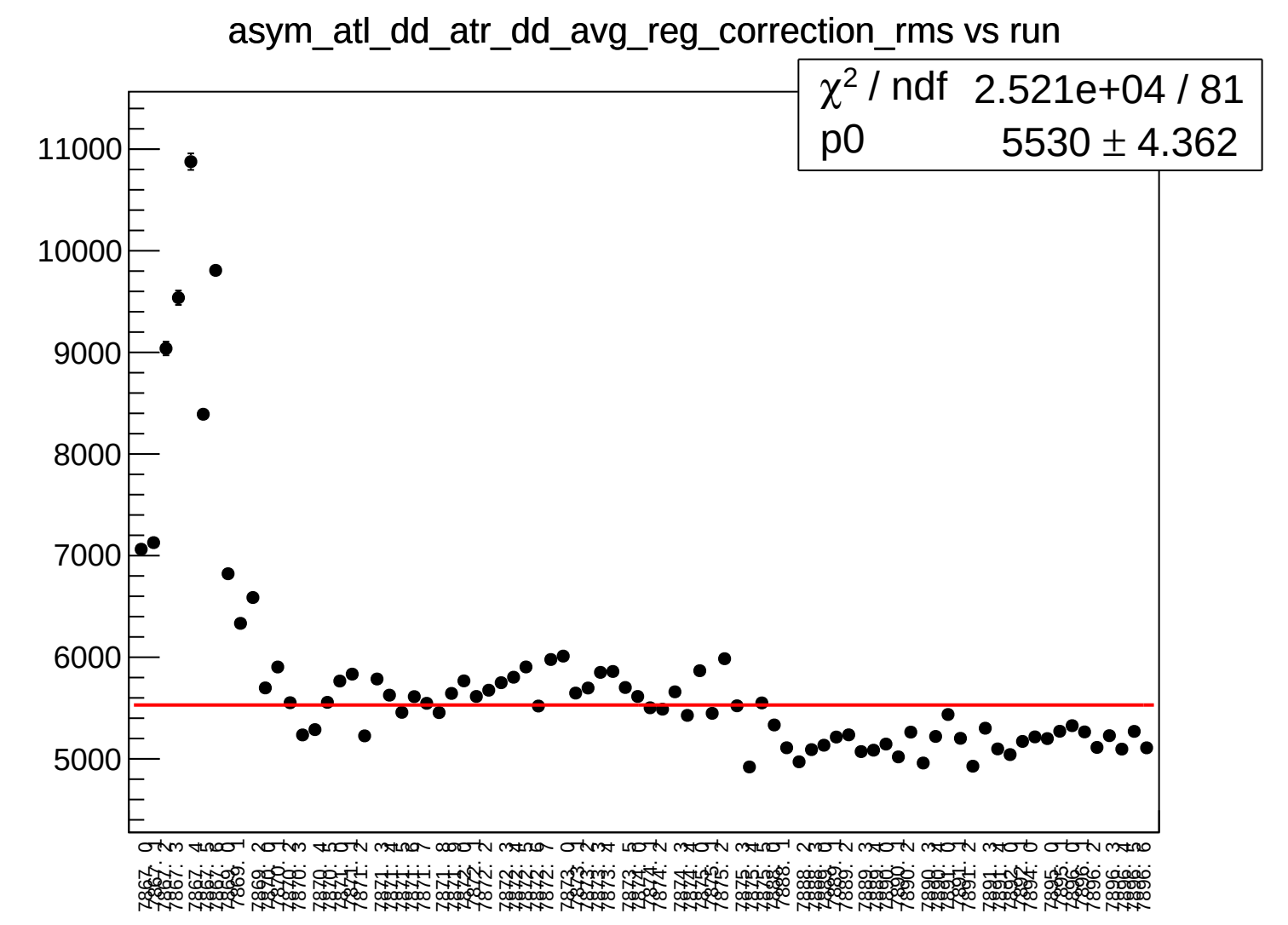

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.035e+05 / 81
p0 1.95e−10 ± 2.284e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

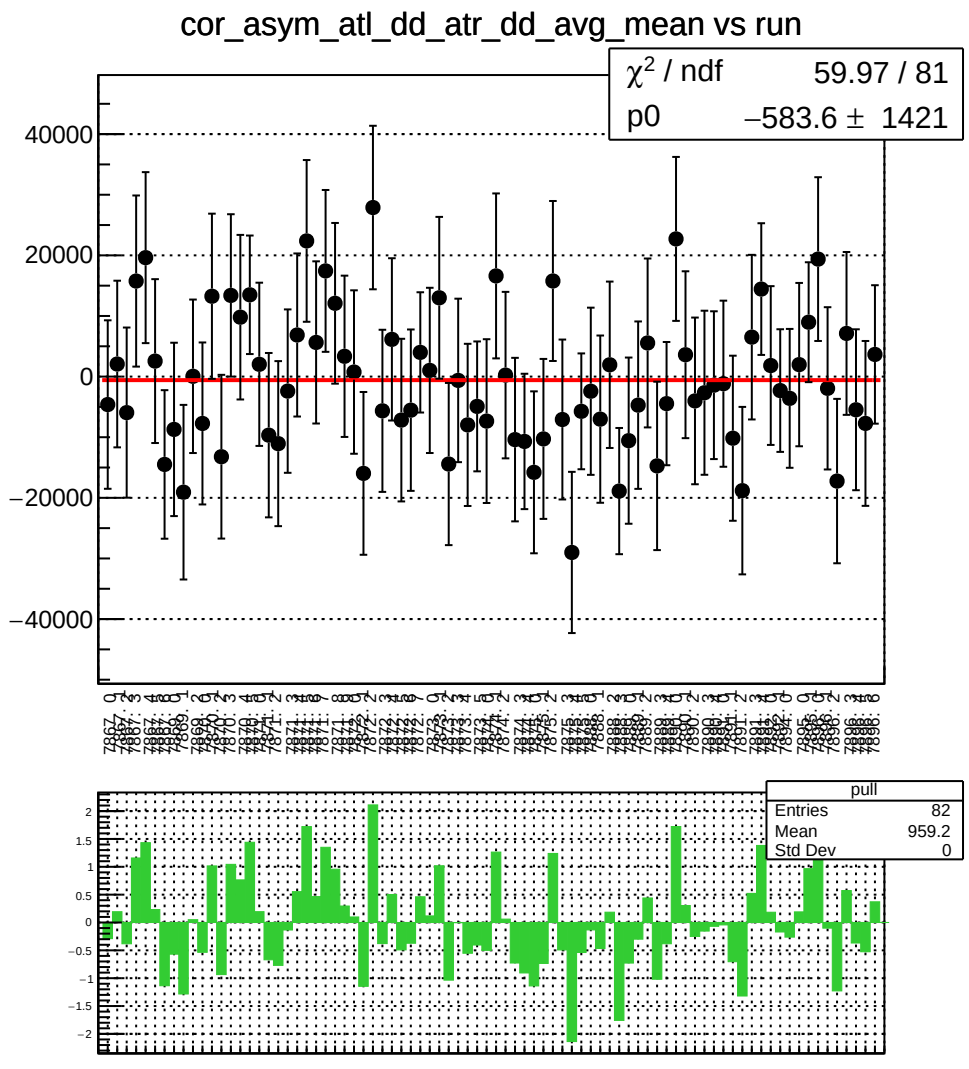

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 59.97 / 81
p0 −583.7 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

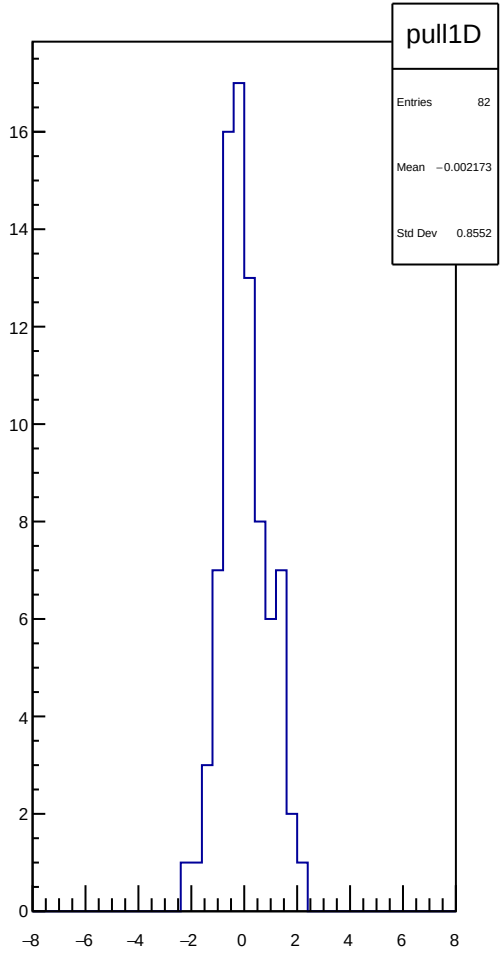

pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

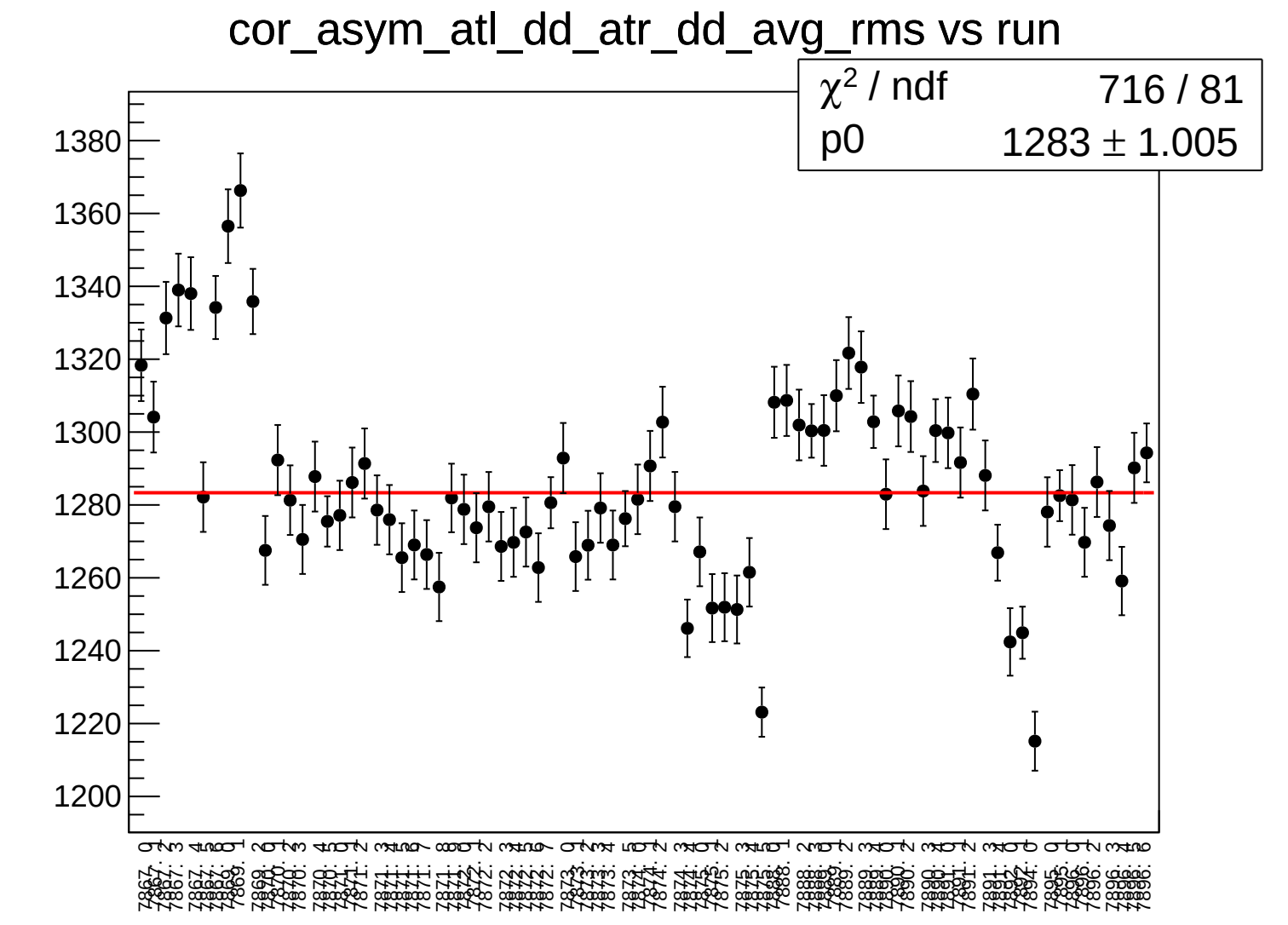

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

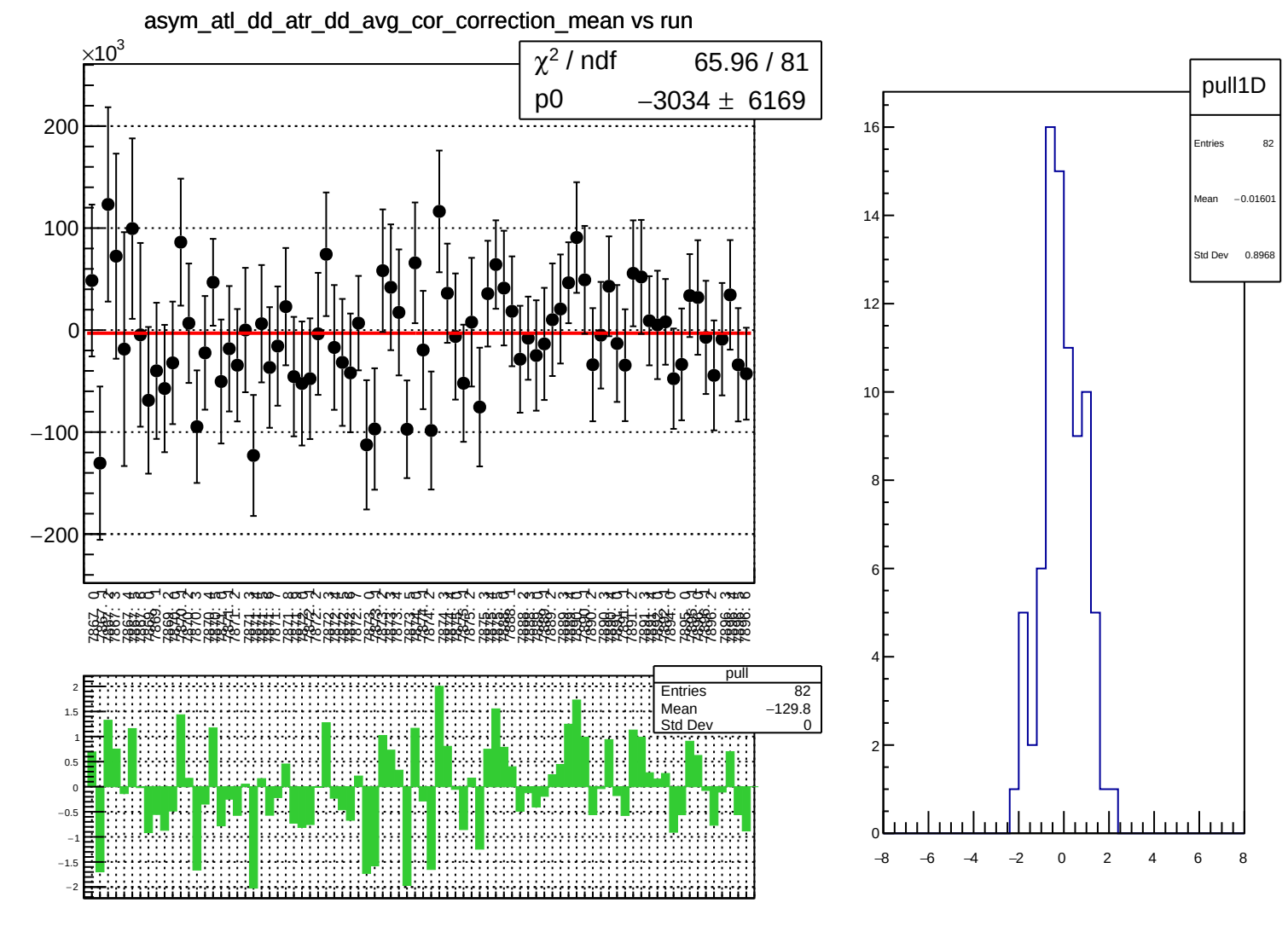

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

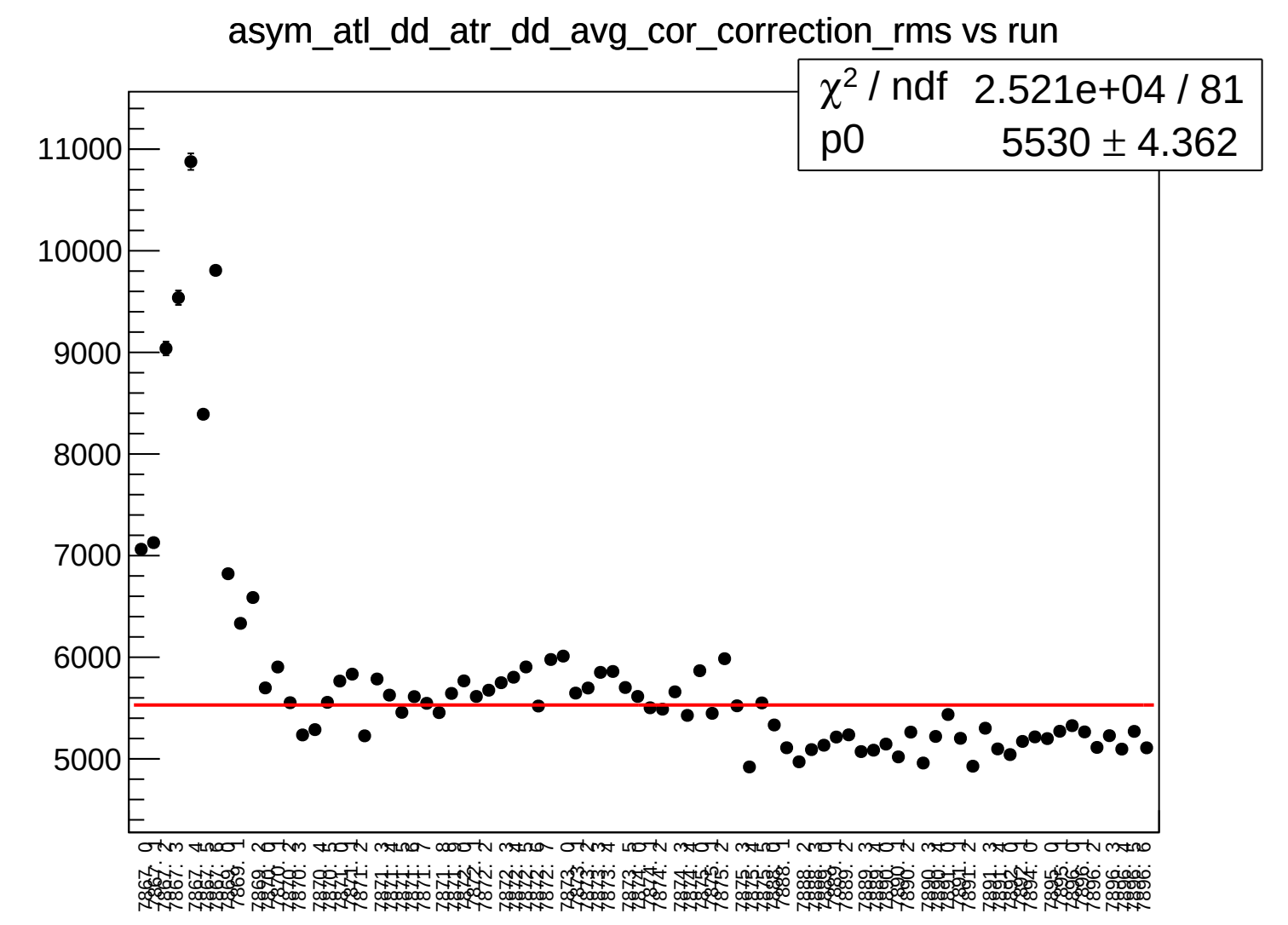

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000

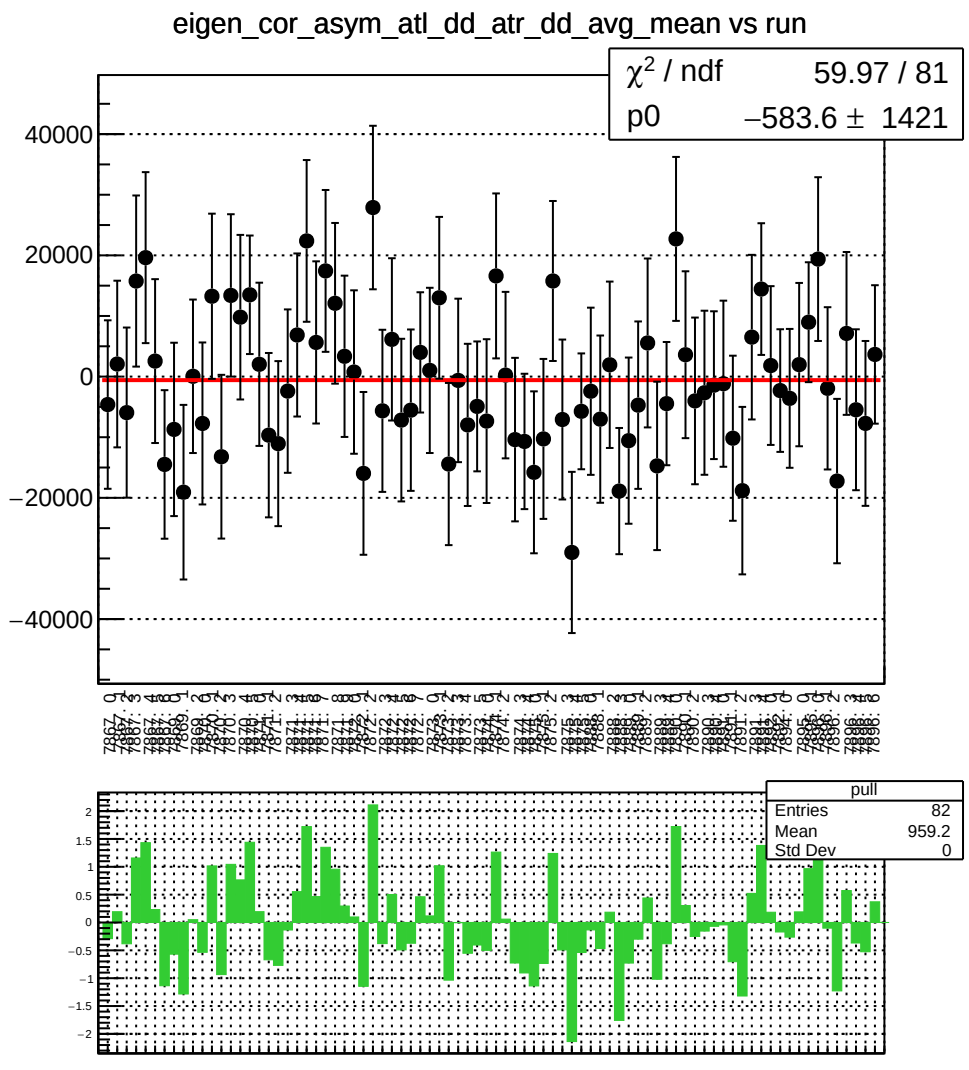

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 59.97 / 81
p0 −583.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

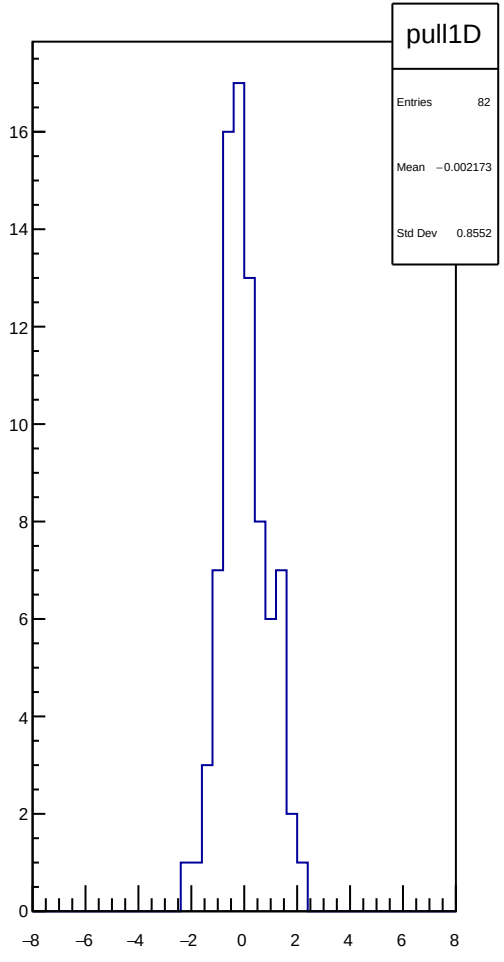

pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

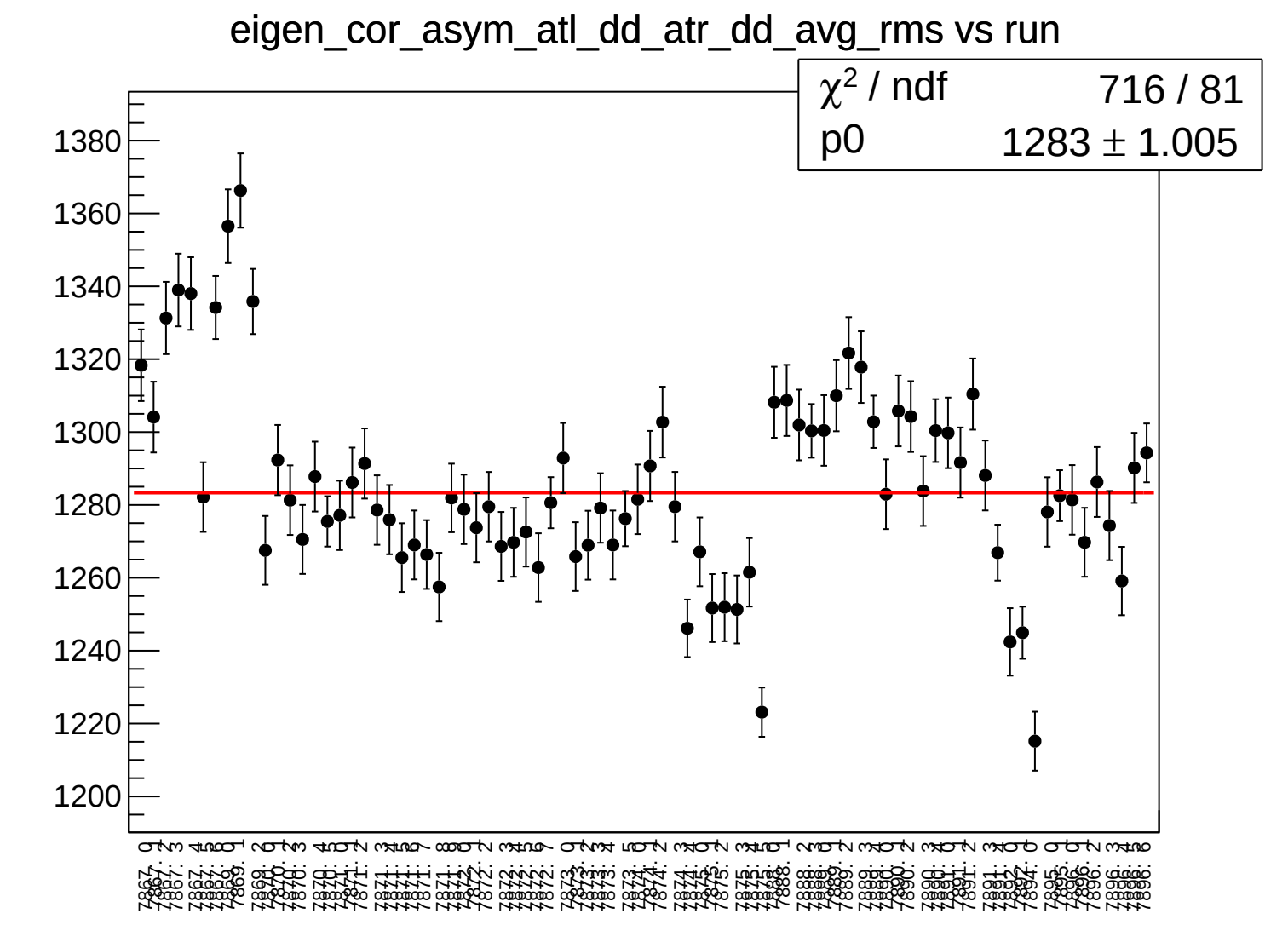

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

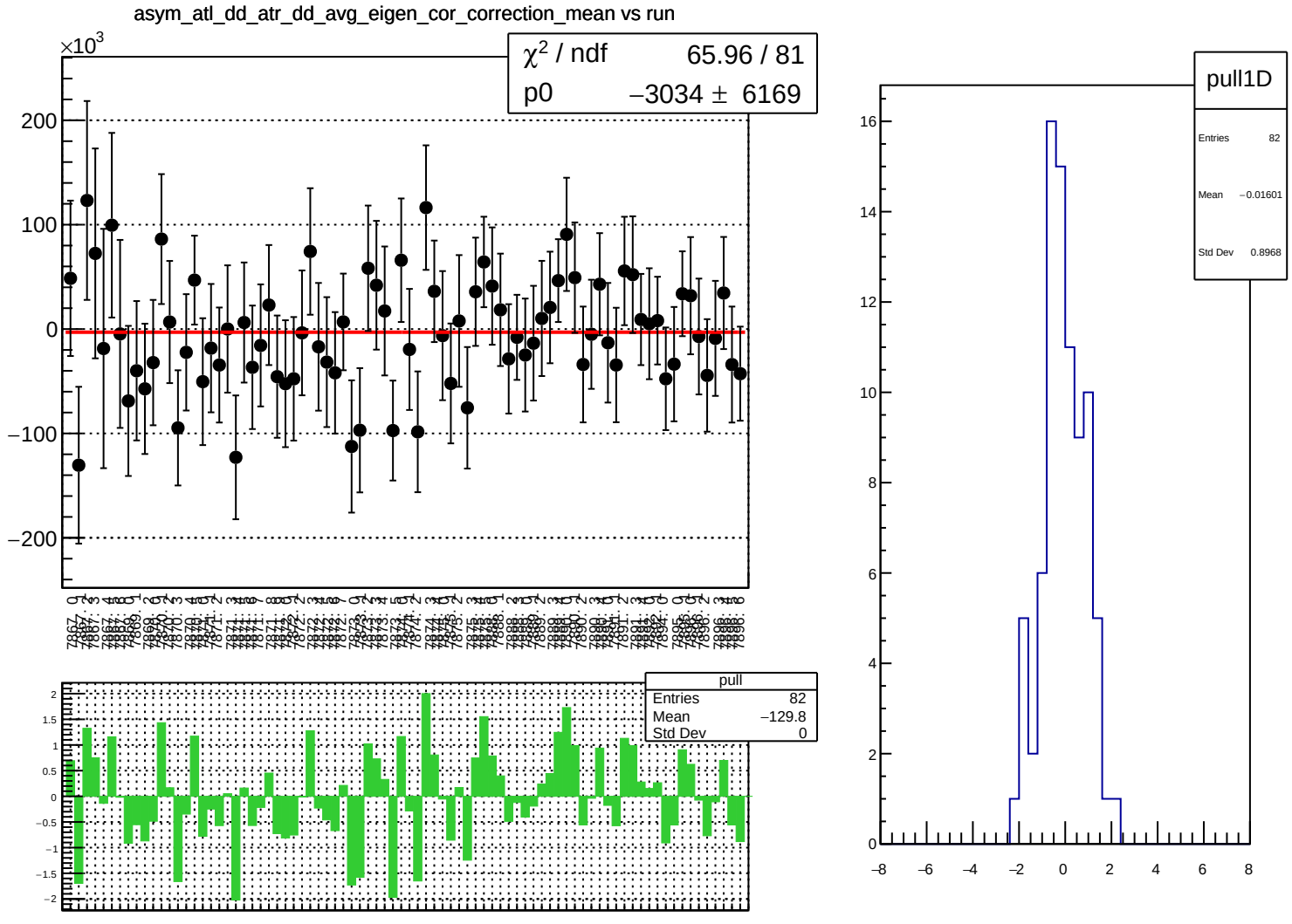

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

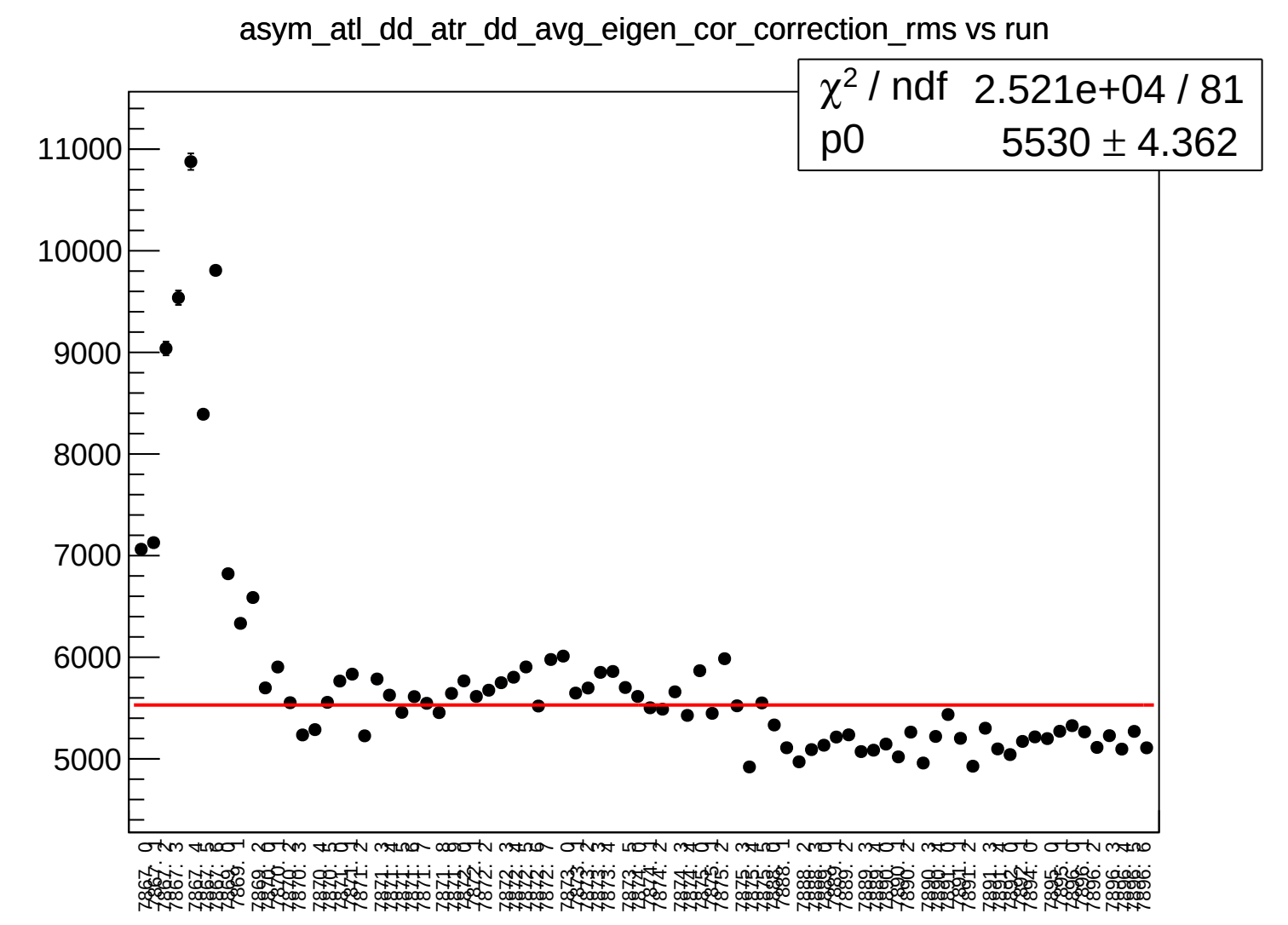

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000

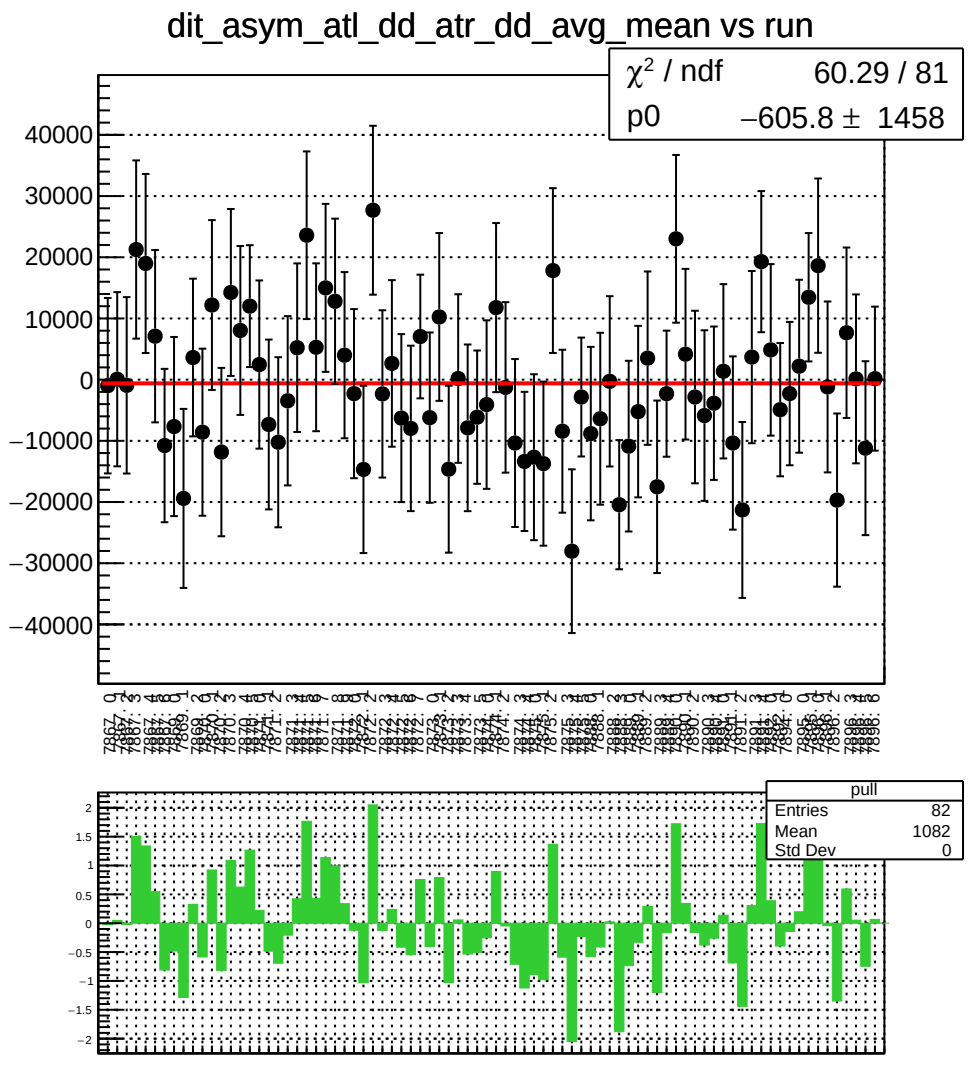

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 59.97 / 81
p0 −583.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

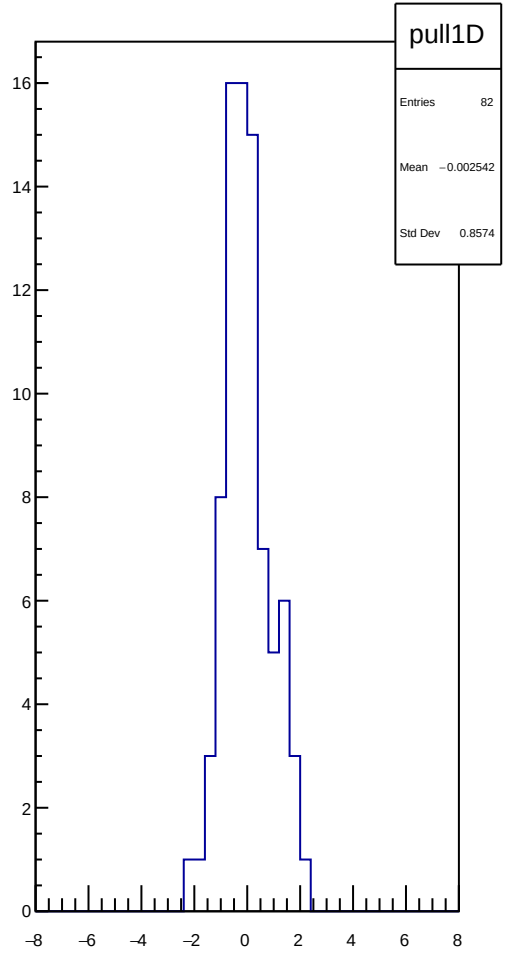

pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

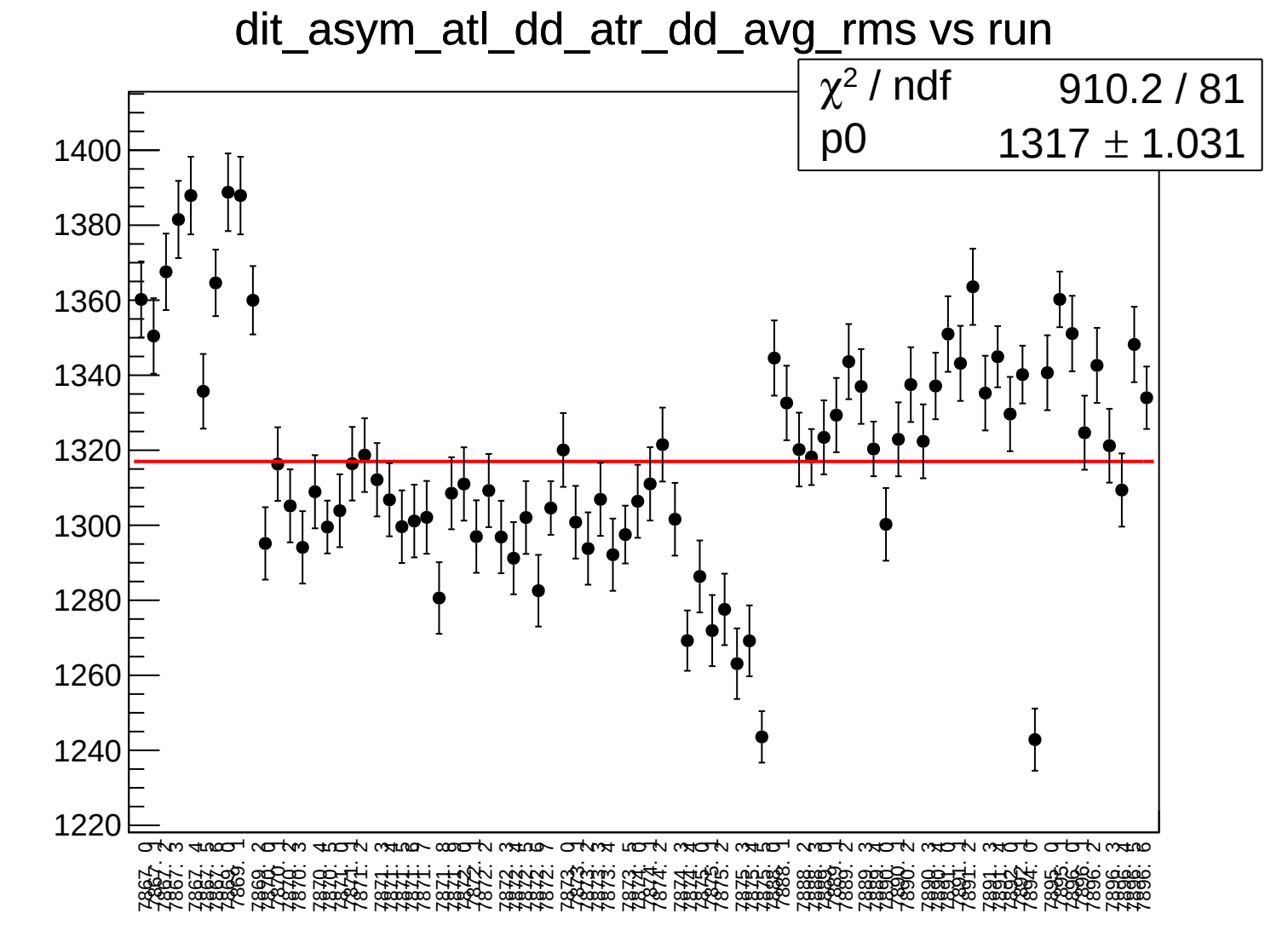

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

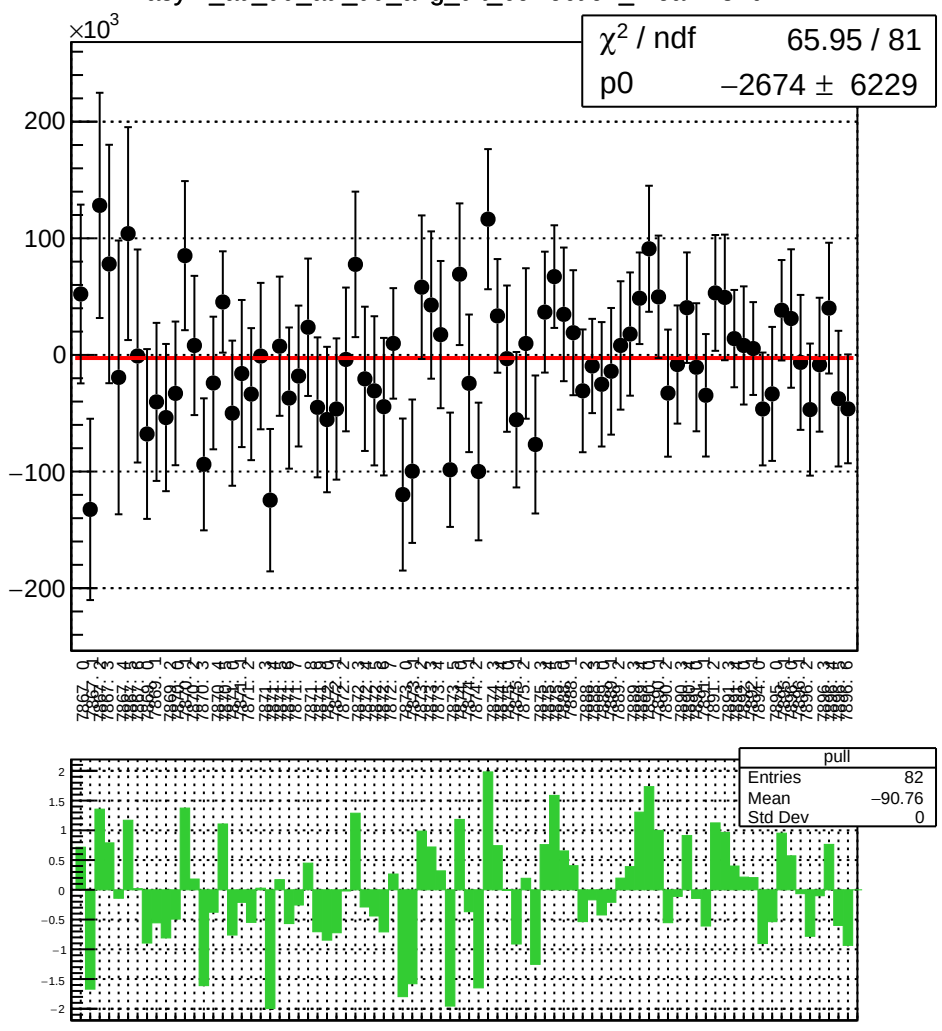

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

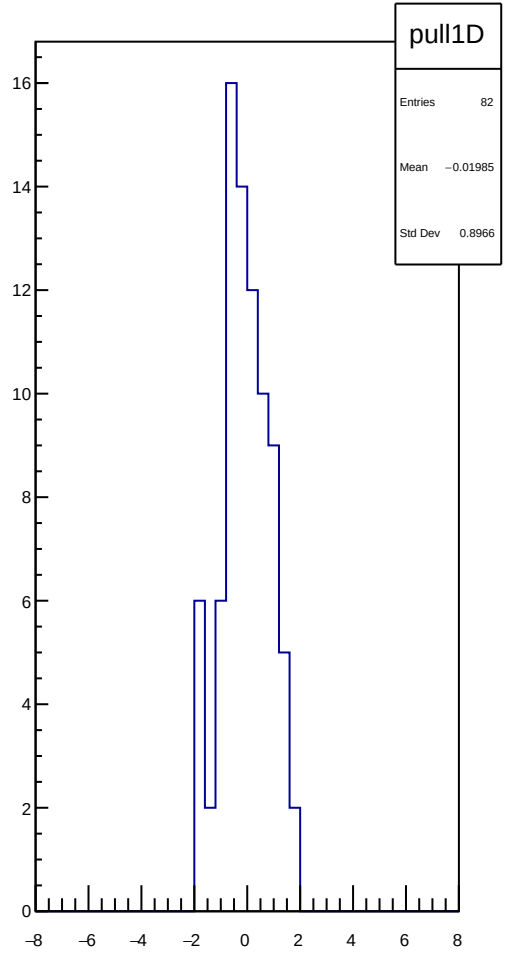

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000


dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 60.29 / 81
p0 −605.8 ± 1458
pull
Entries 82
Mean 1082
Std Dev 0


pull1D
Entries 82
Mean −0.002542
Std Dev 0.8574


dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 910.2 / 81
p0 1317 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220


asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.95 / 81
p0 −2674 ± 6229
200
100
0
−100
−200
pull
Entries 82
Mean −90.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.01985
Std Dev 0.8966
16
14
12
10
8
6
4
2
0
−8
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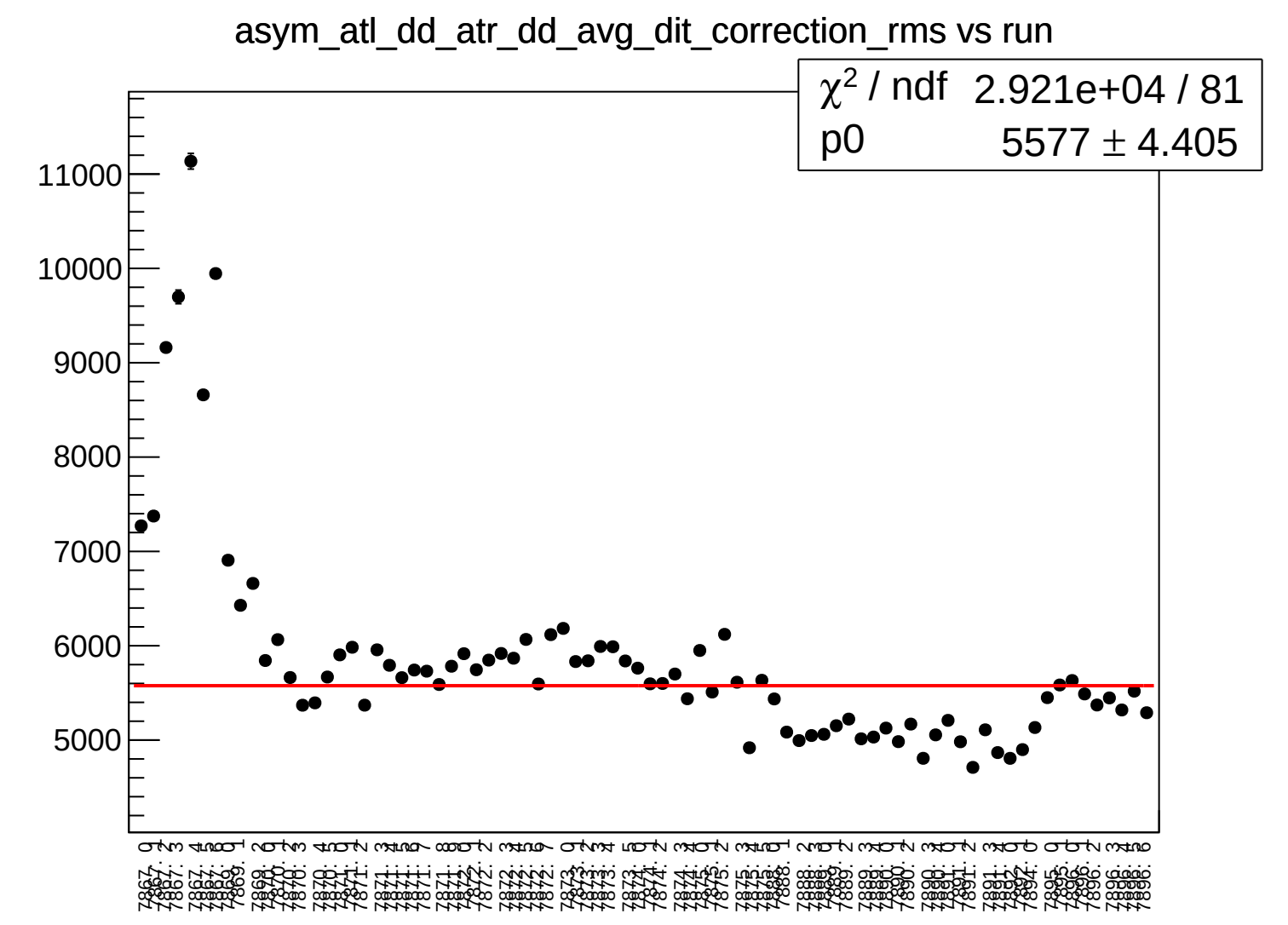
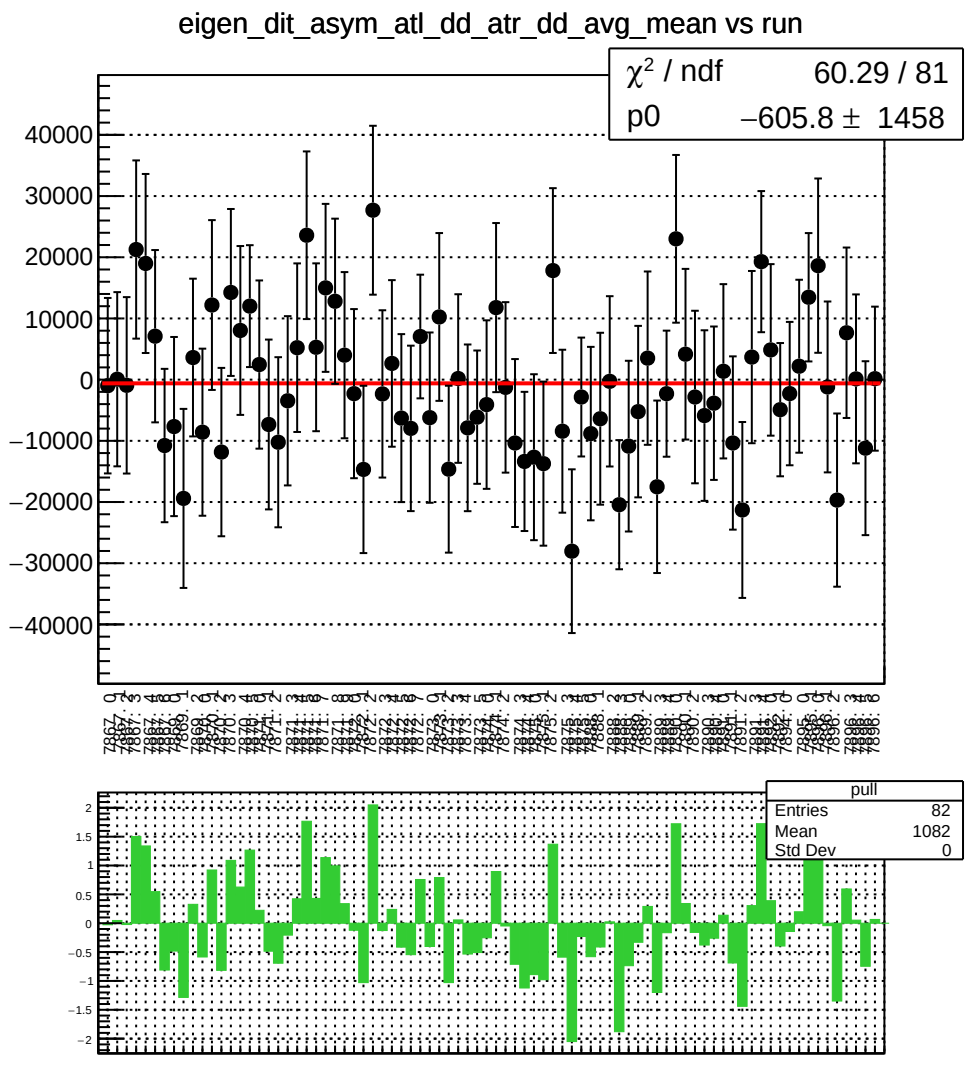
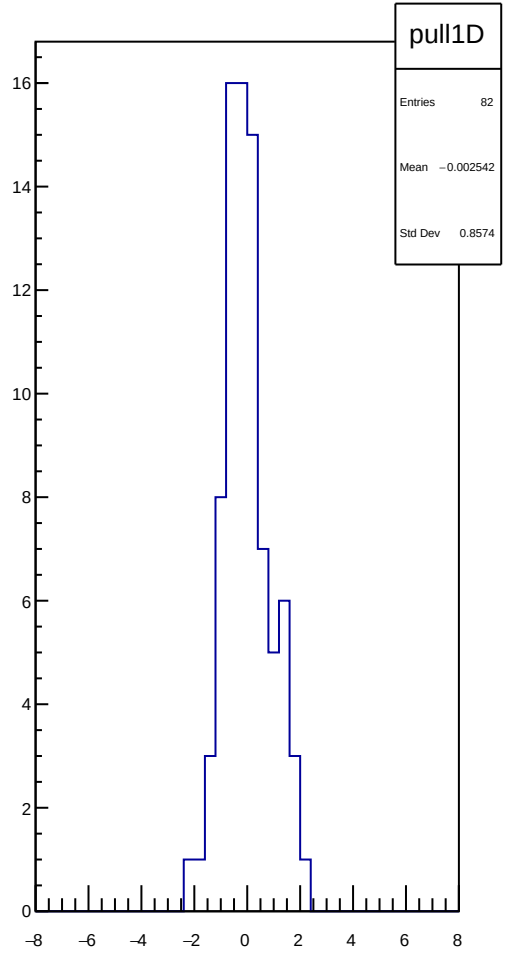
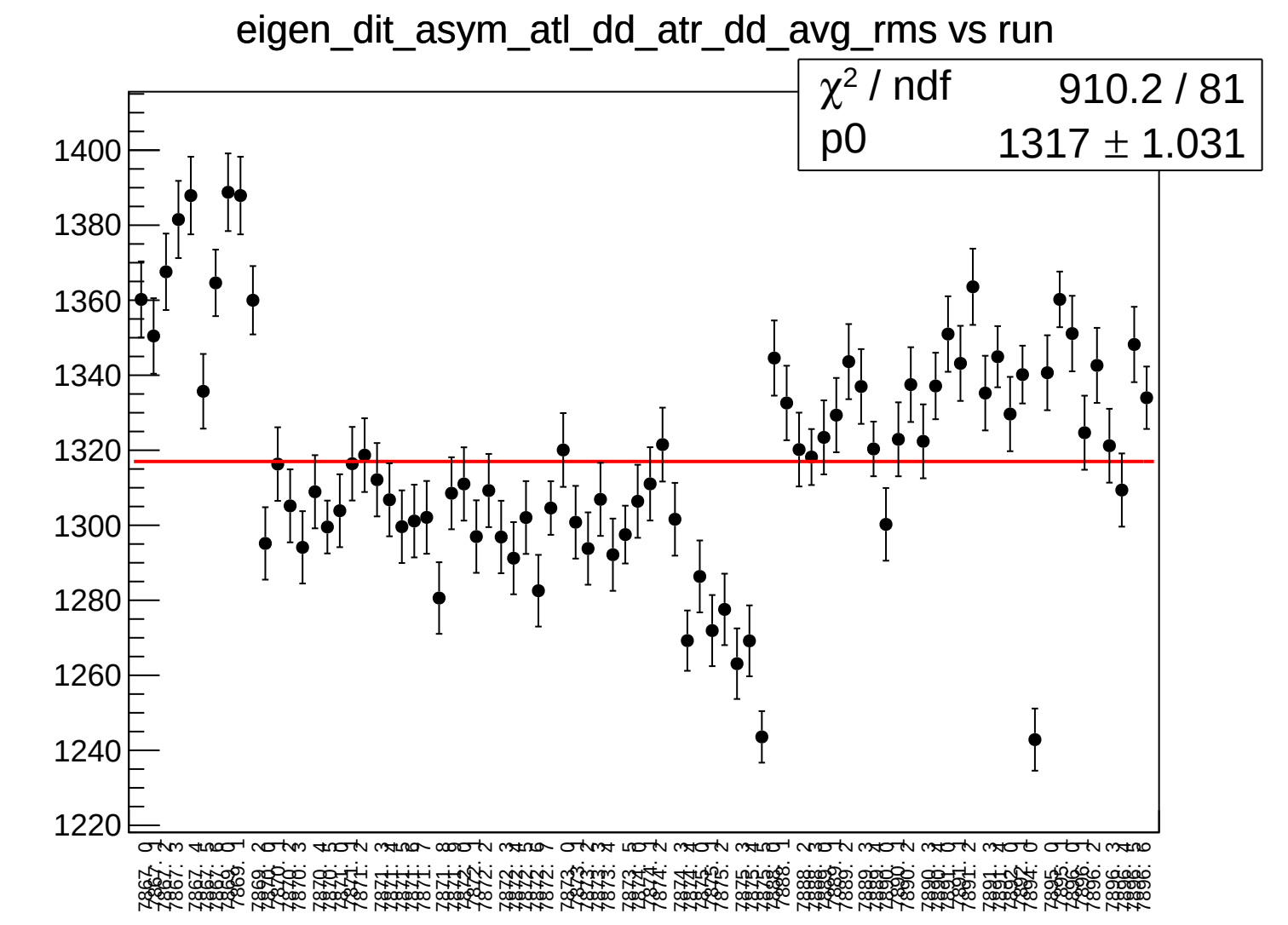
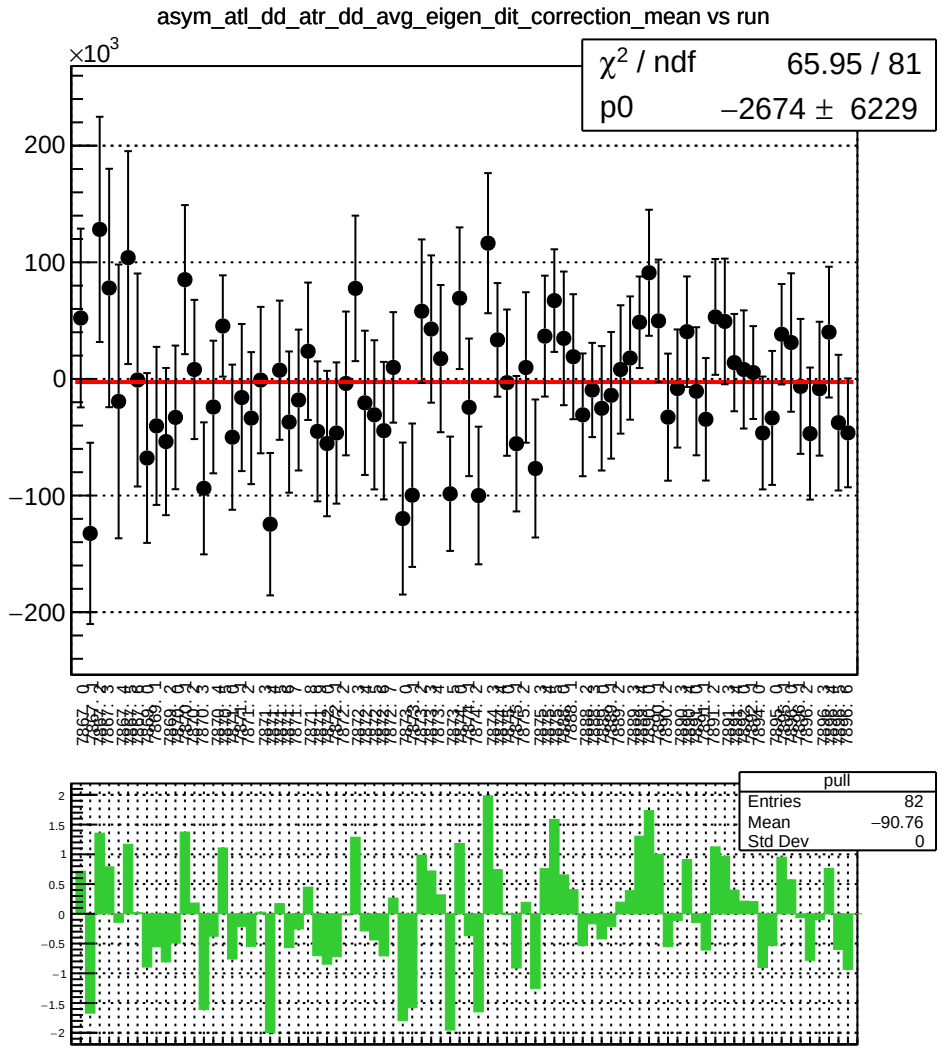
0
2
4
6
8

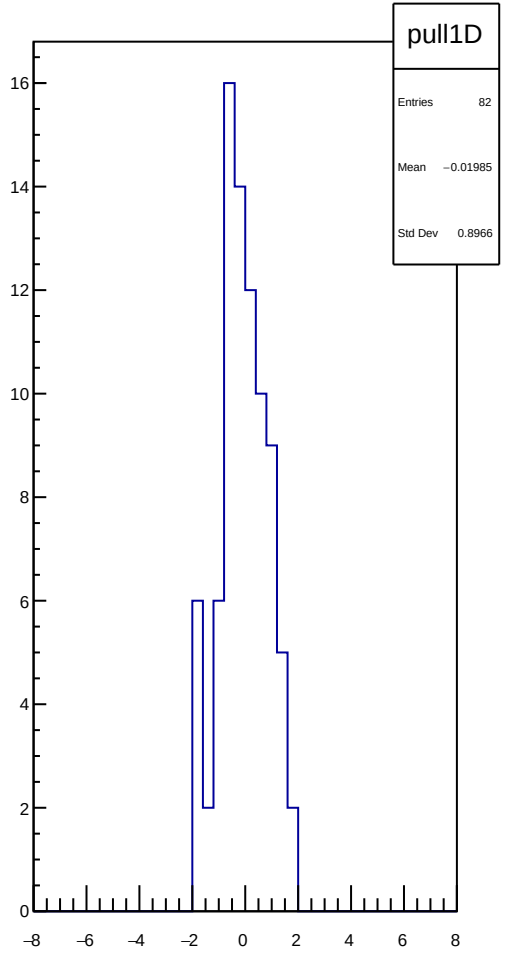

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.921e+04 / 81
p0 5577 ± 4.405
11000
10000
9000
8000
7000
6000
5000

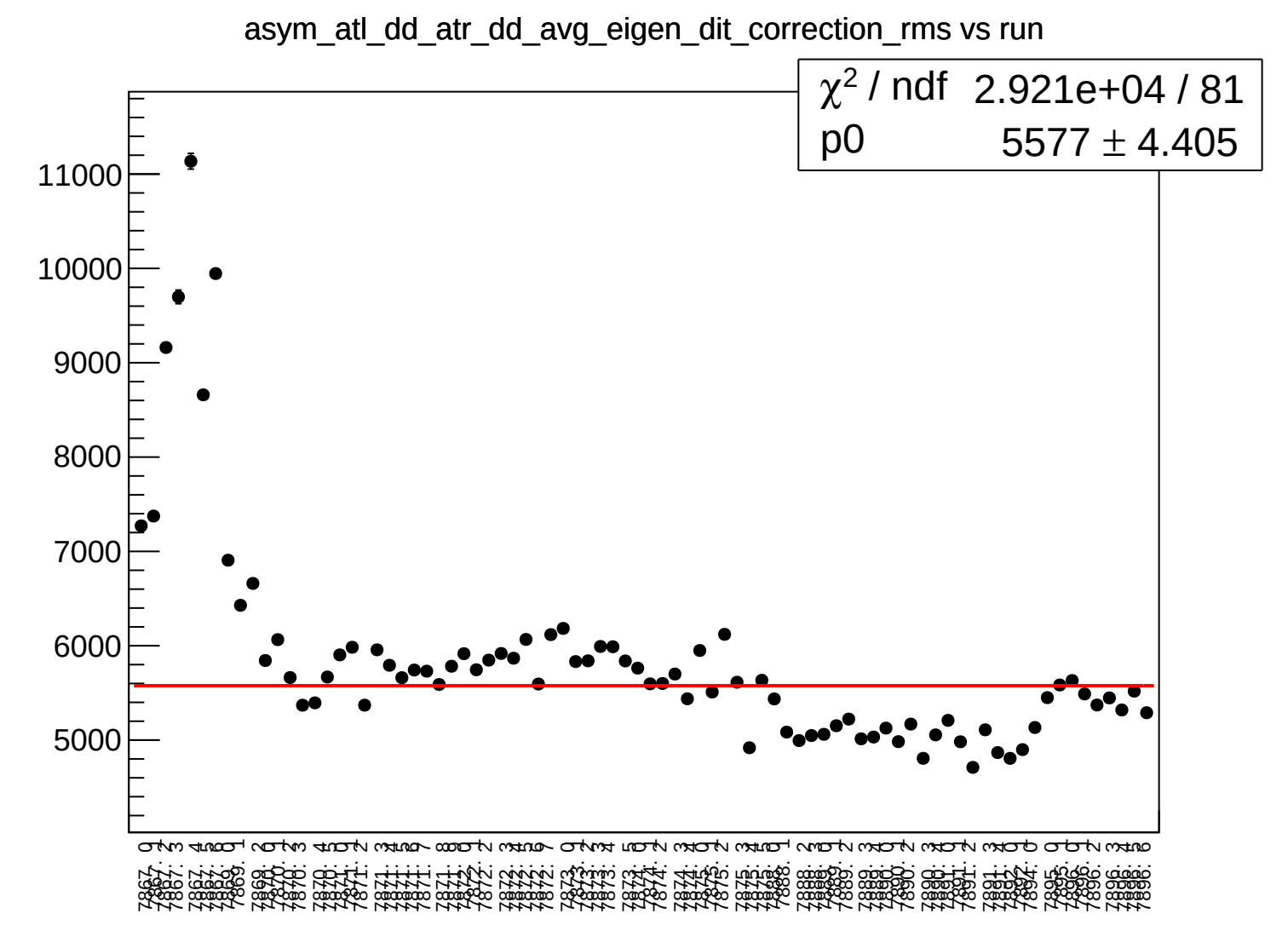

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 60.29 / 81
p0 −605.8 ± 1458
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 1082
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

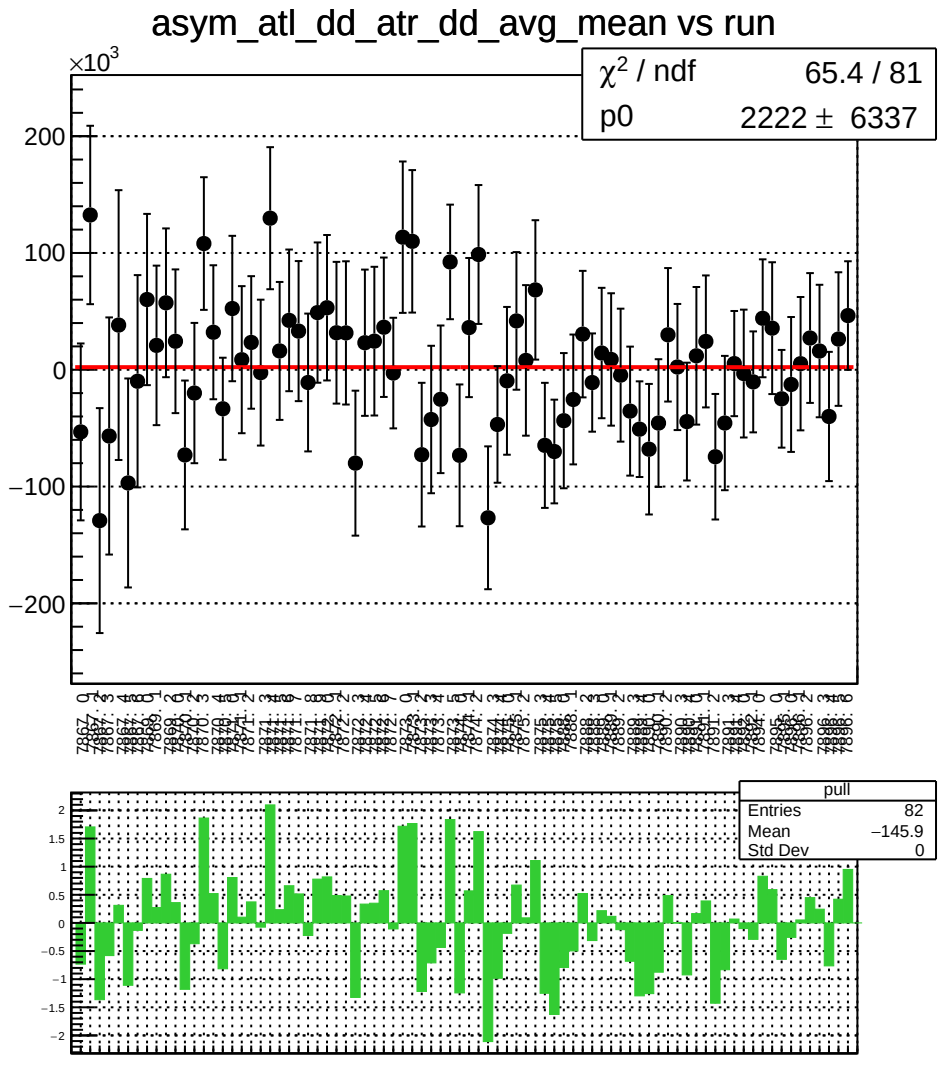

pull1D
Entries 82
Mean −0.002542
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

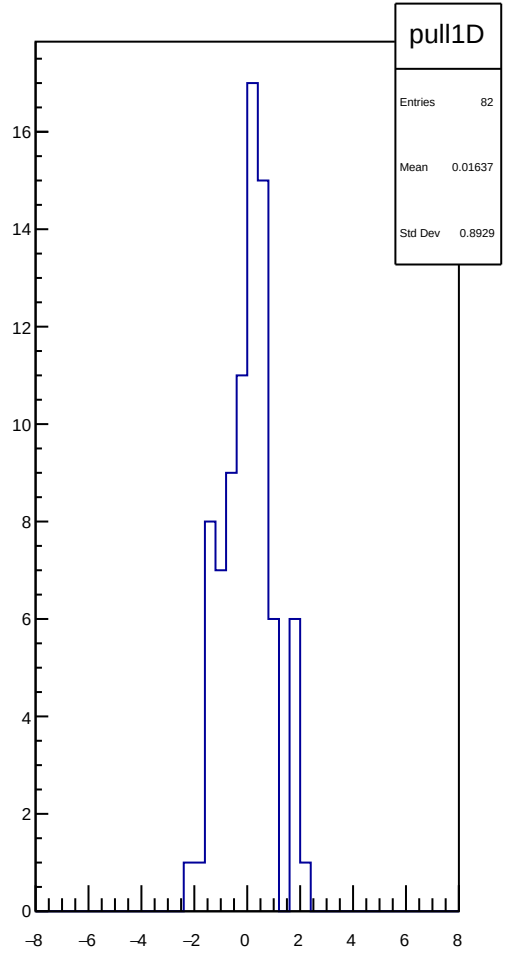

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 910.2 / 81
p0 1317 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

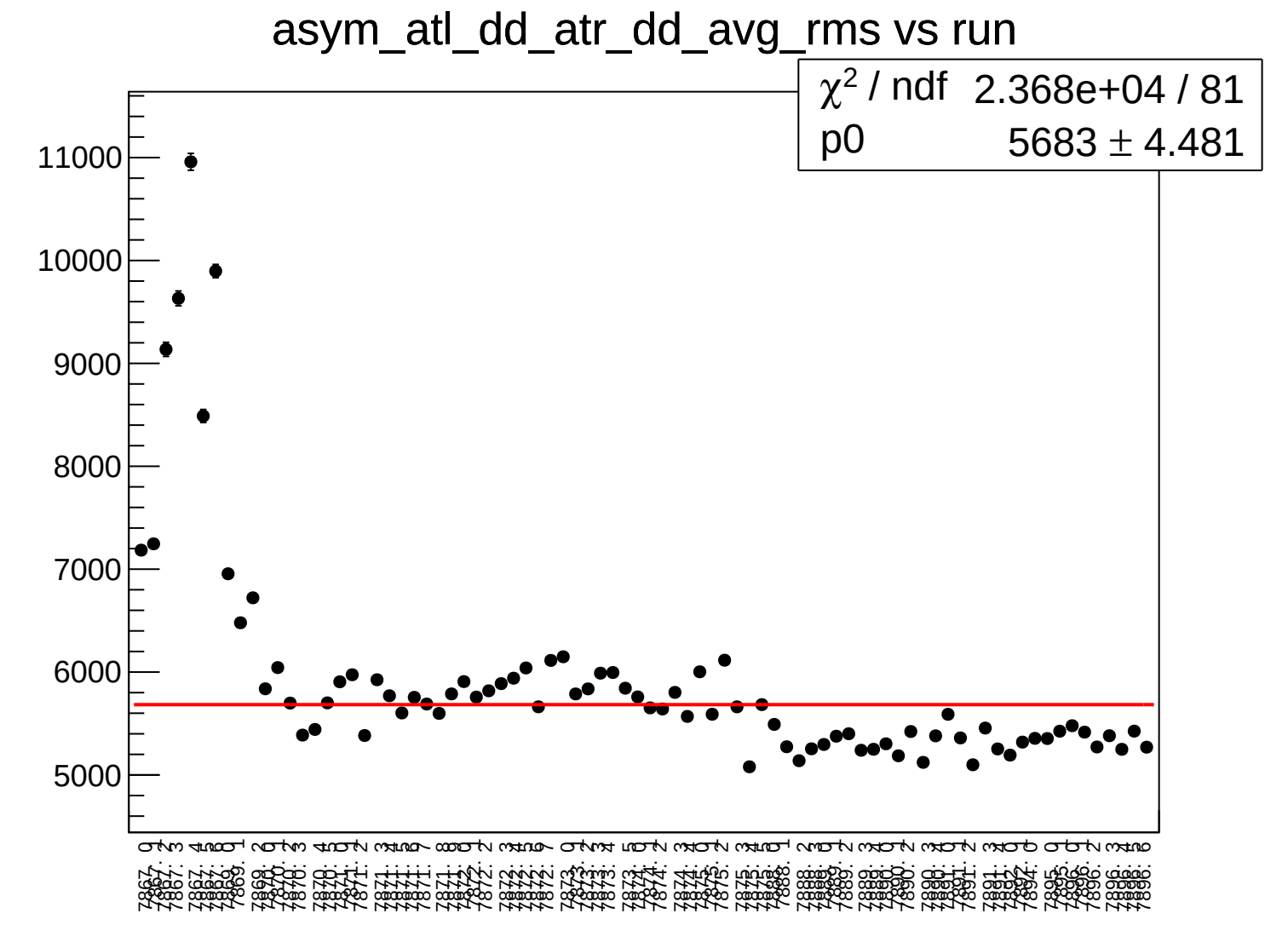

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.95 / 81
p0 −2674 ± 6229
200
100
0
−100
−200
pull
Entries 82
Mean −90.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

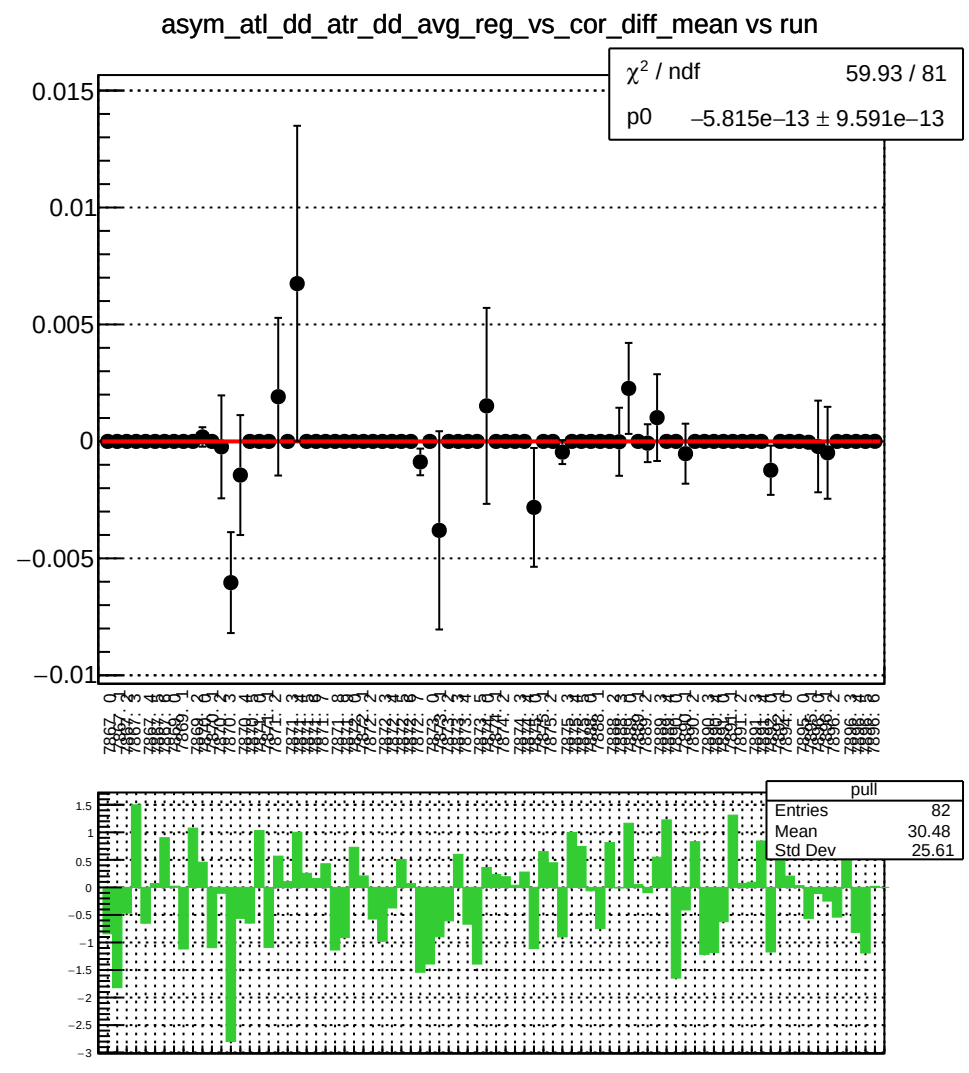

pull1D
Entries 82
Mean −0.01985
Std Dev 0.8966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

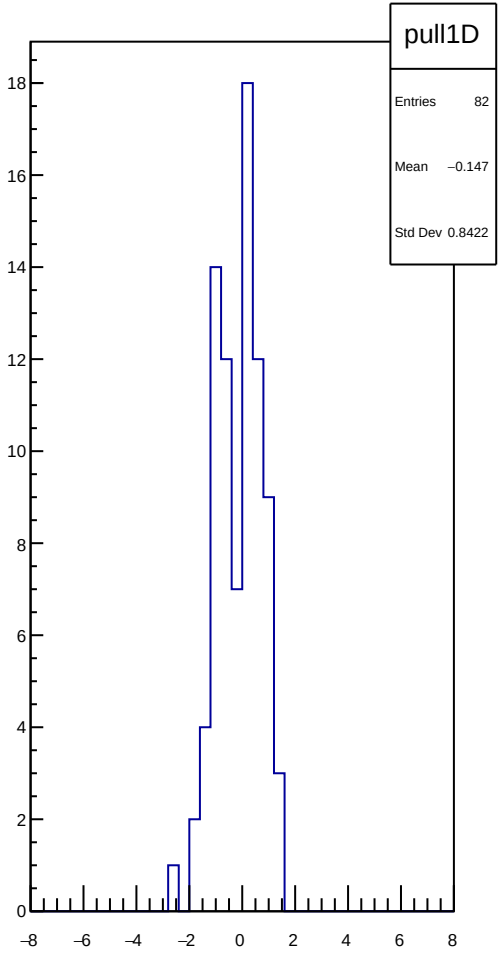

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.921e+04 / 81
p0 5577 ± 4.405
11000
10000
9000
8000
7000
6000
5000

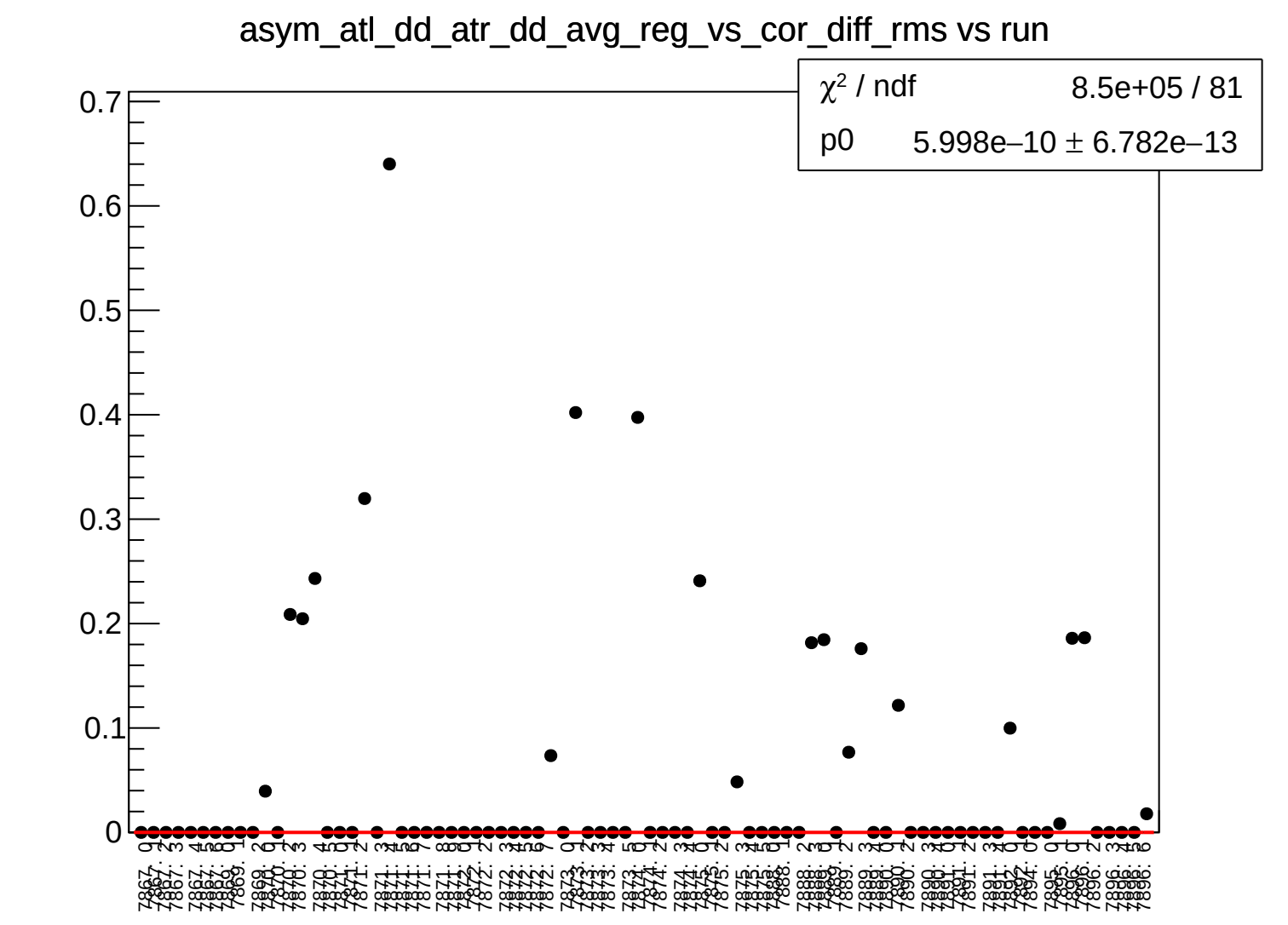

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 65.4 / 81
p0 2222 ± 6337
200
100
0
−100
−200
pull
Entries 82
Mean −145.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

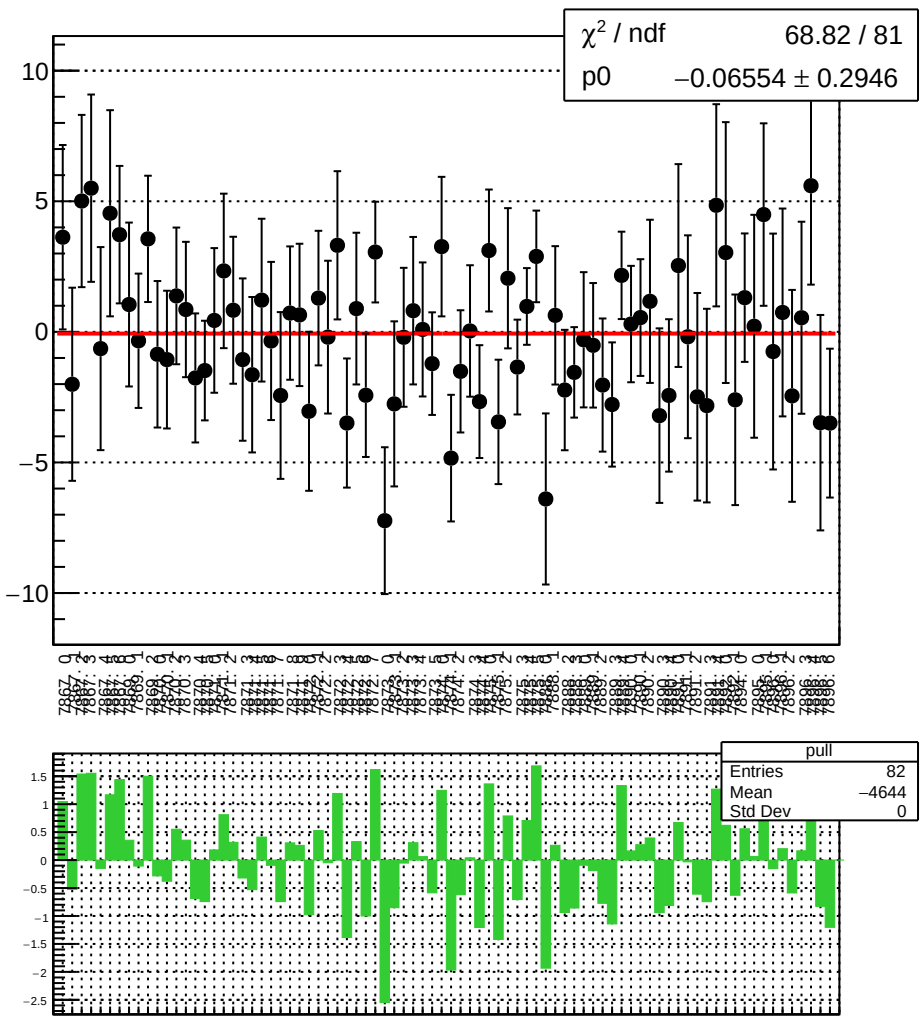

pull1D
Entries 82
Mean 0.01637
Std Dev 0.8929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

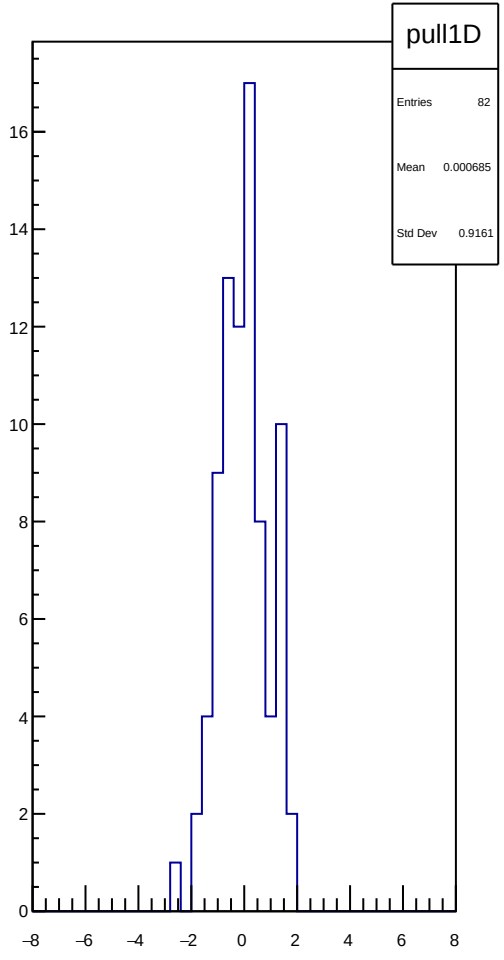

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.368e+04 / 81
p0 5683 ± 4.481
11000
10000
9000
8000
7000
6000
5000

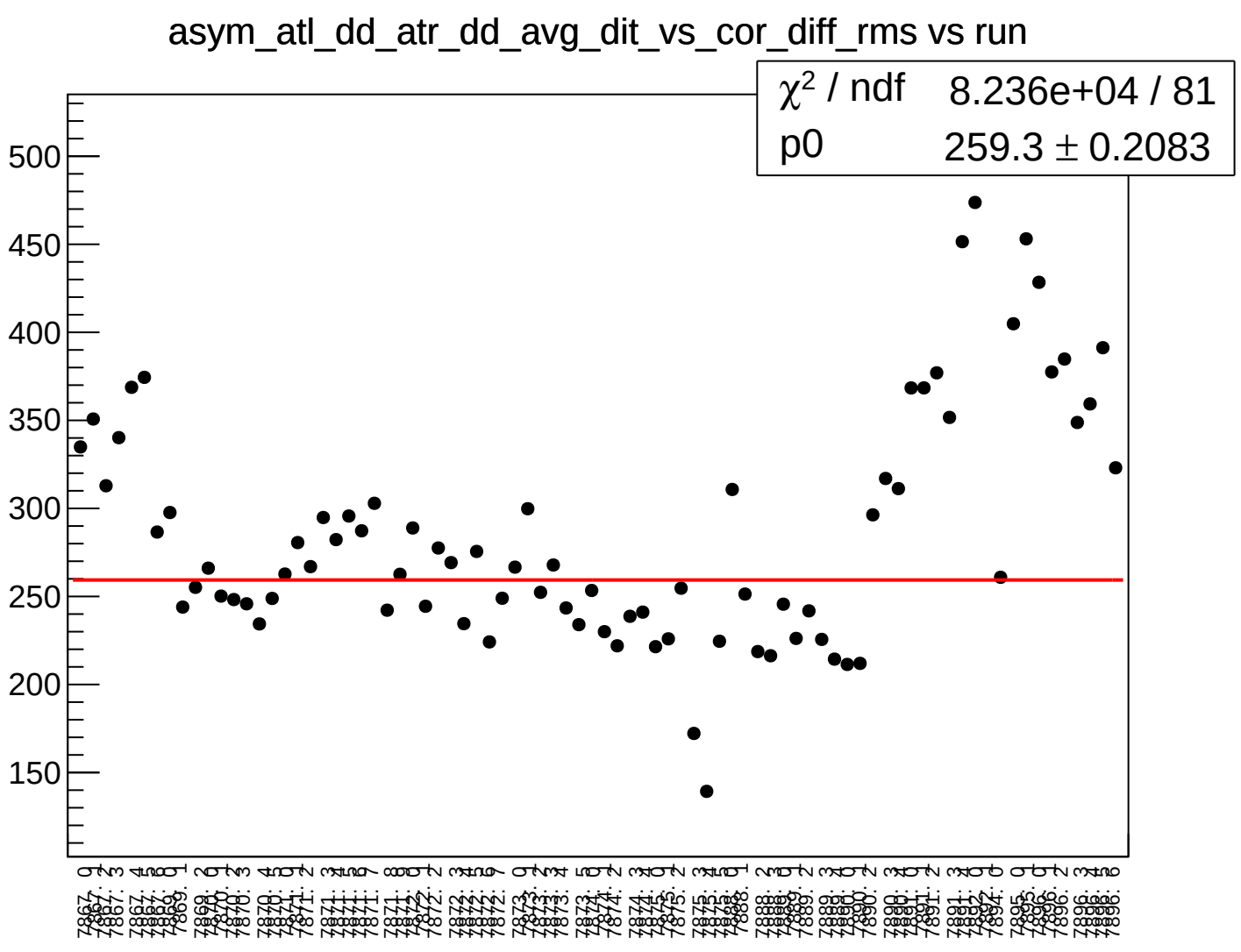

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 59.93 / 81
p0 −5.815e−13 ± 9.591e−13
pull
Entries 82
Mean 30.48
Std Dev 25.61

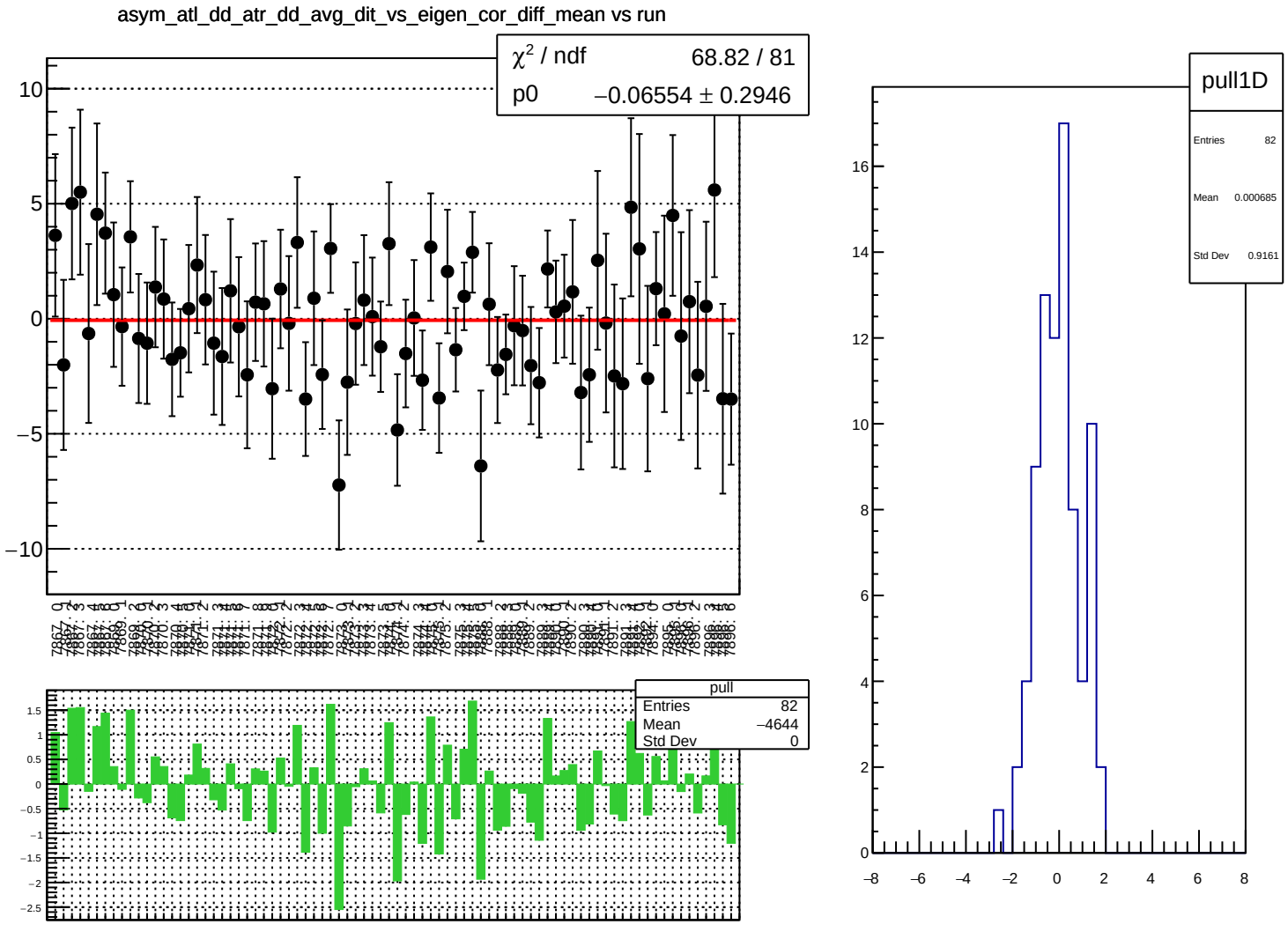

pull1D
Entries 82
Mean −0.147
Std Dev 0.8422

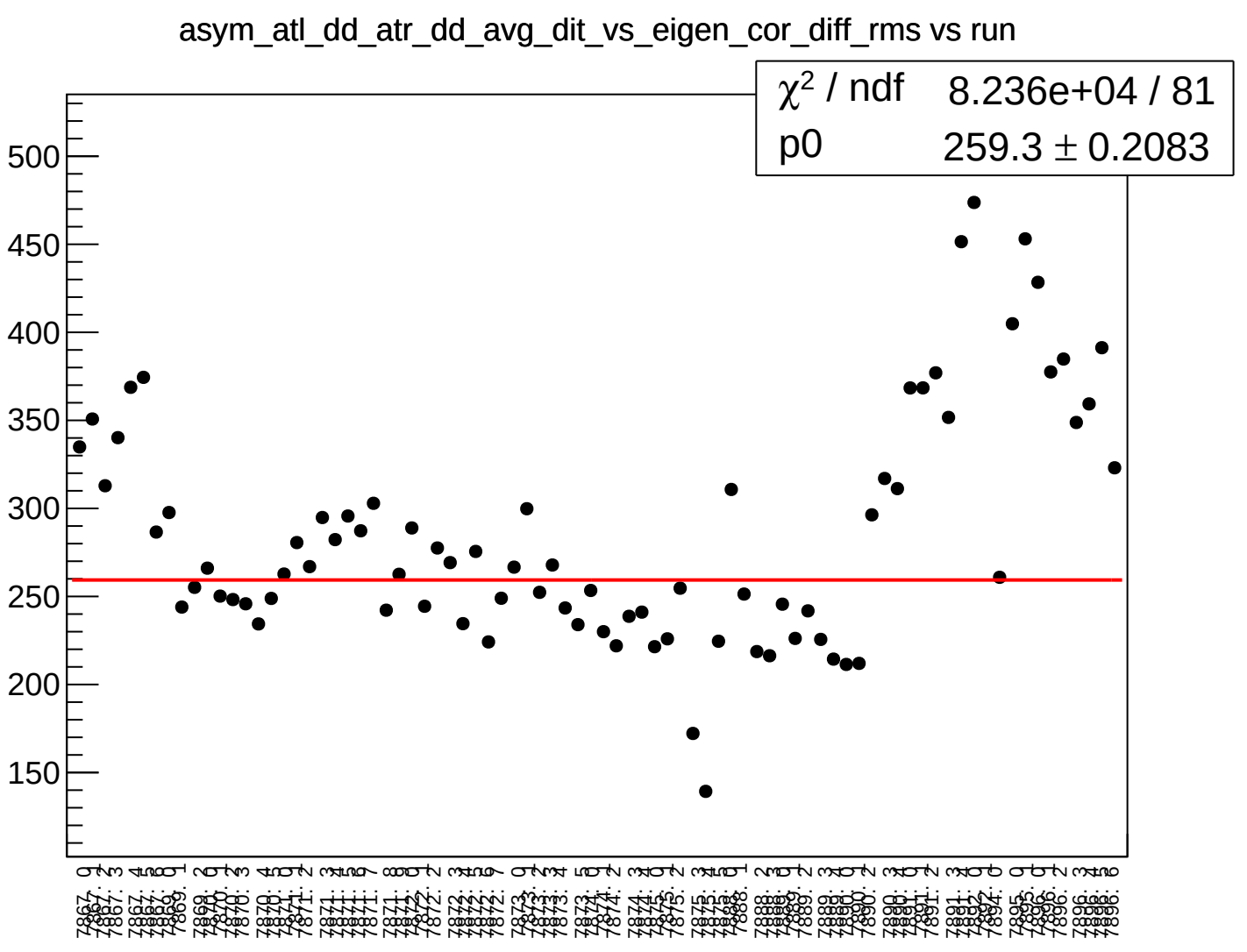

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.5e+05 / 81
p0 5.998e−10 ± 6.782e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

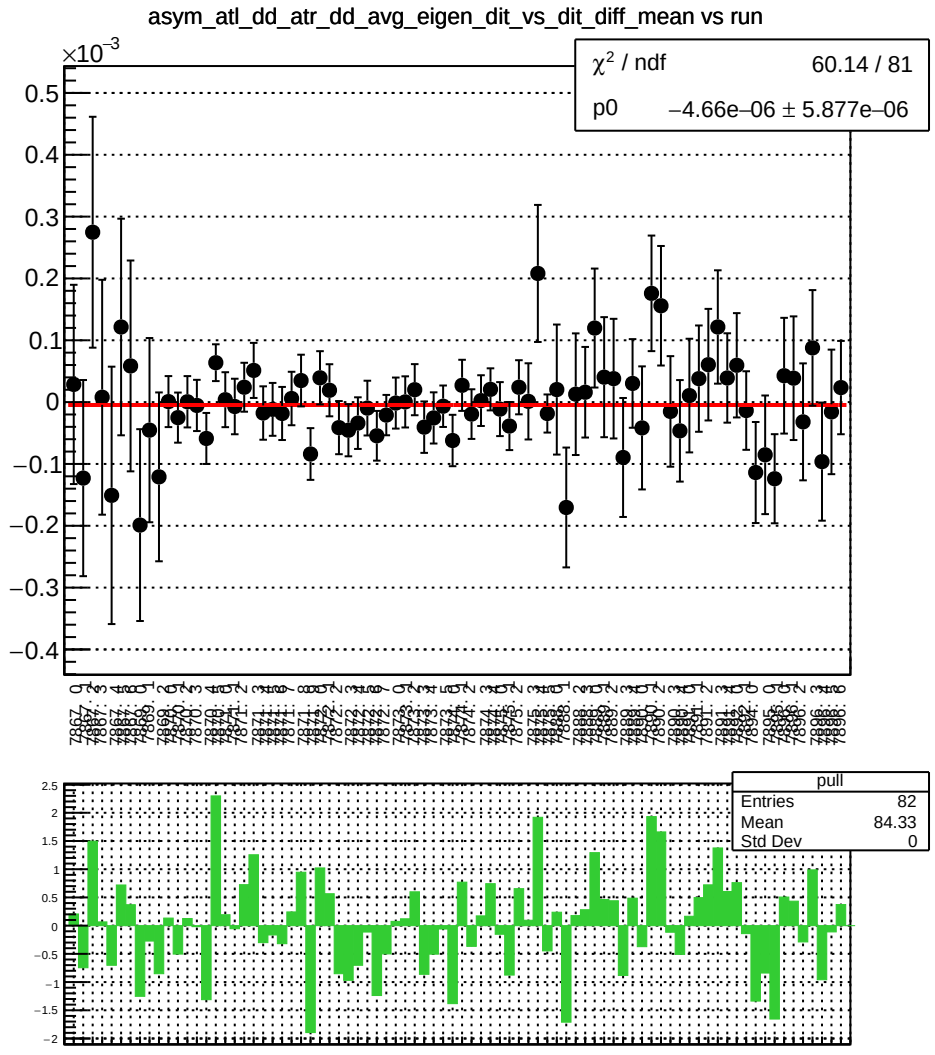

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4644
Std Dev 0

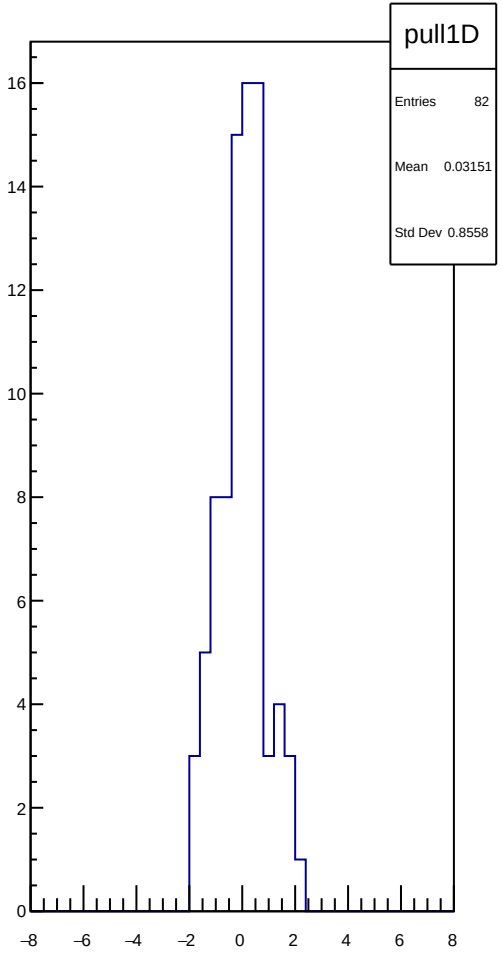

pull1D
Entries 82
Mean 0.000685
Std Dev 0.9161

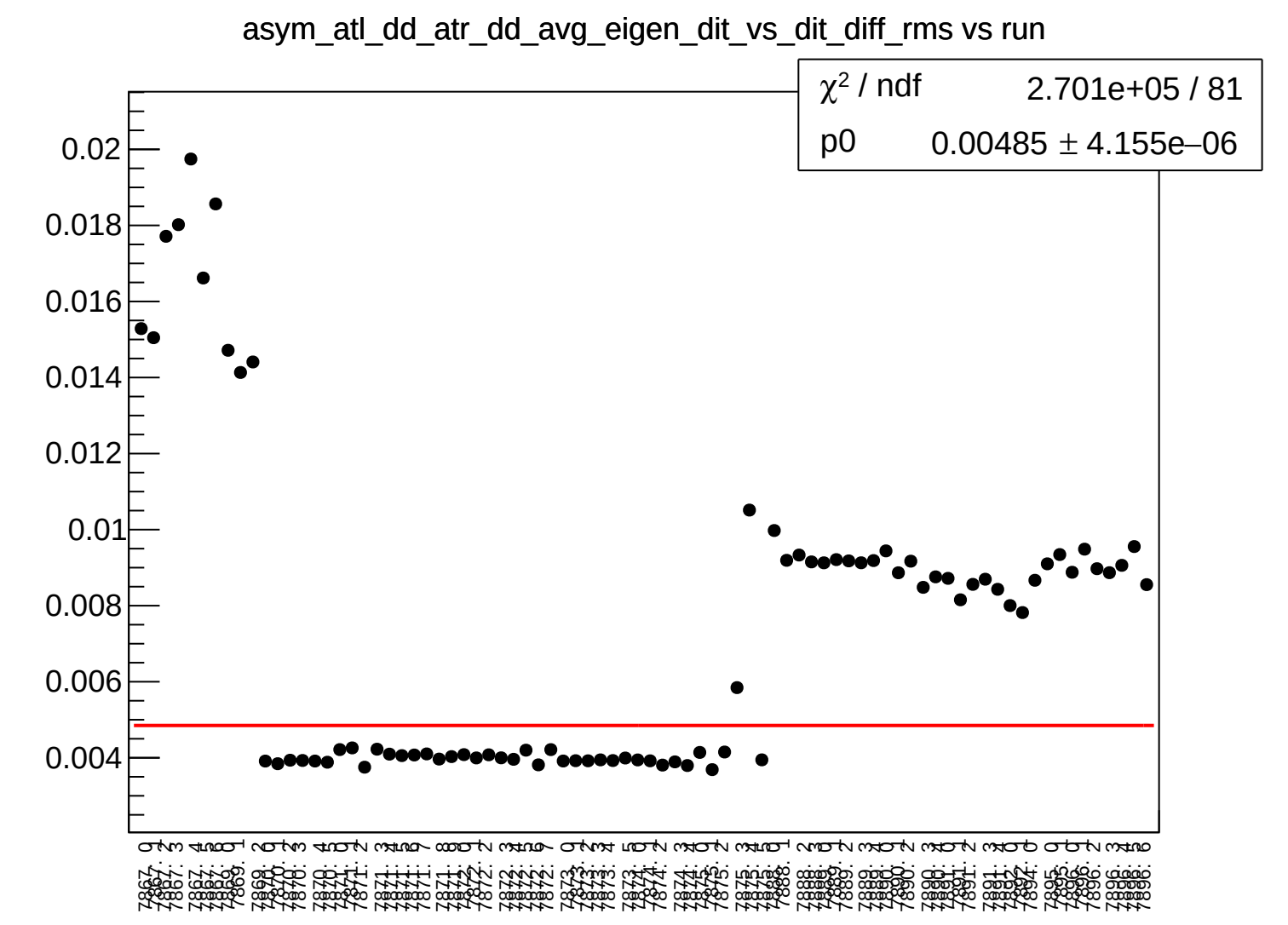

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

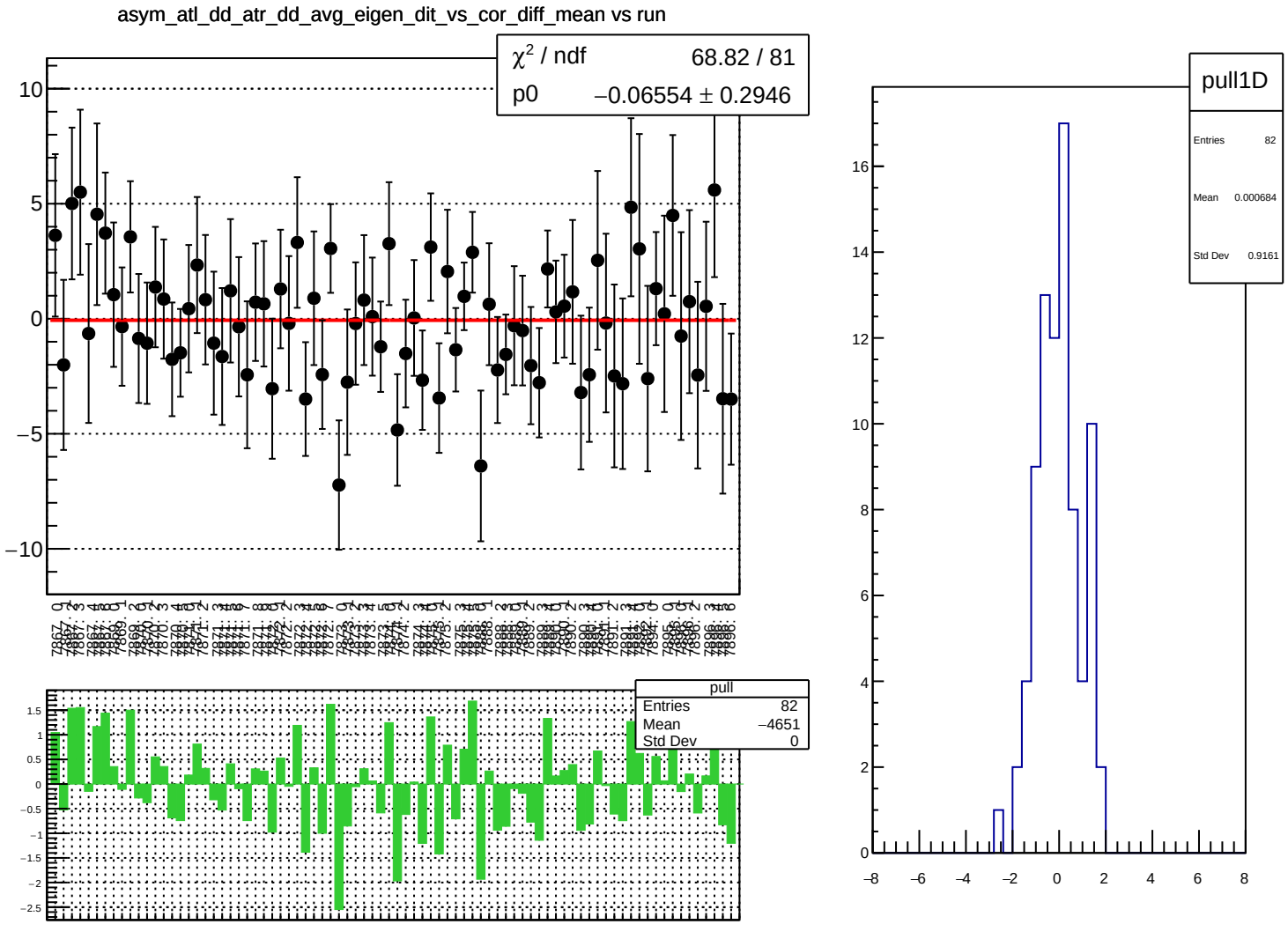

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4644
Std Dev 0
pull1D
Entries 82
Mean 0.000685
Std Dev 0.9161

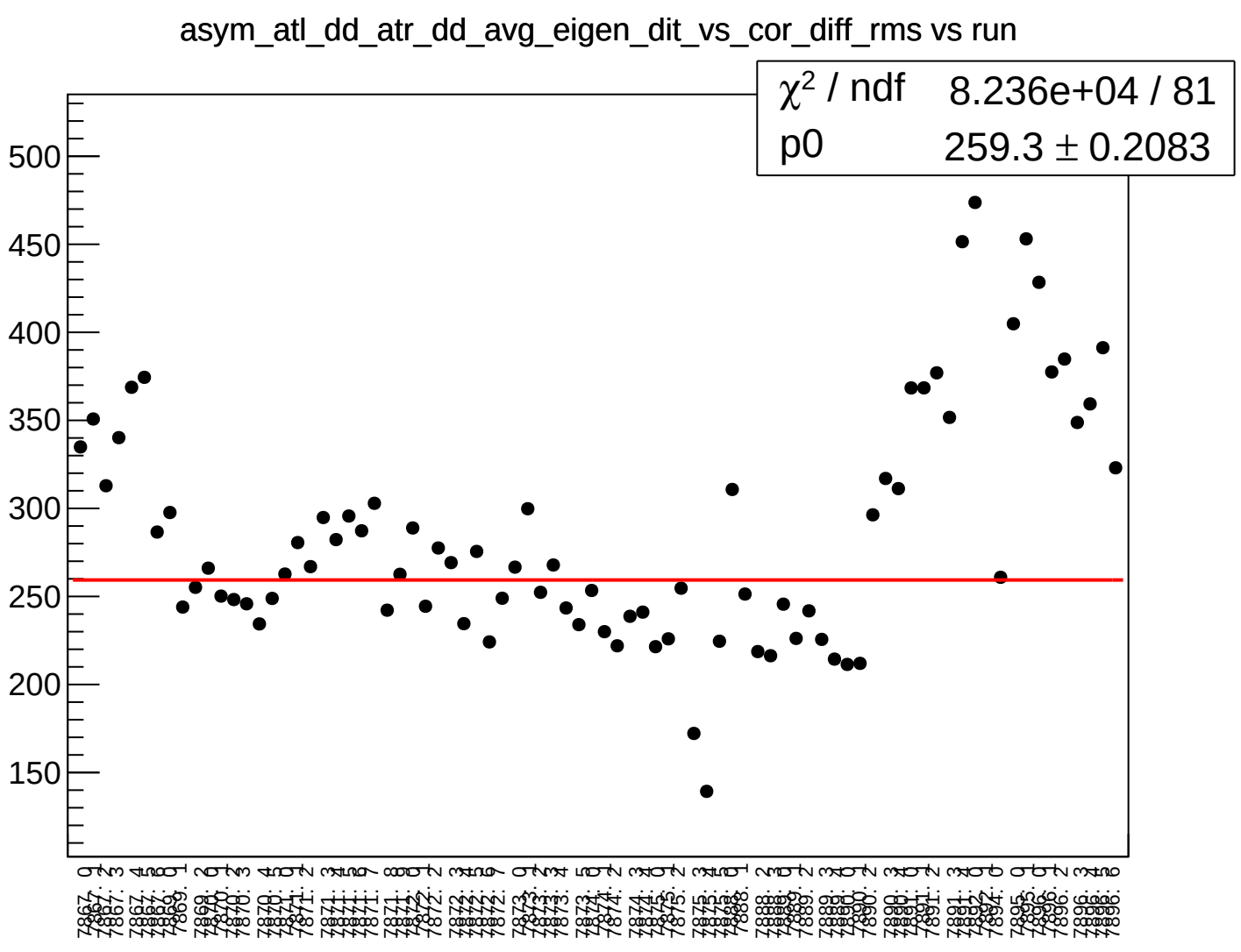

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

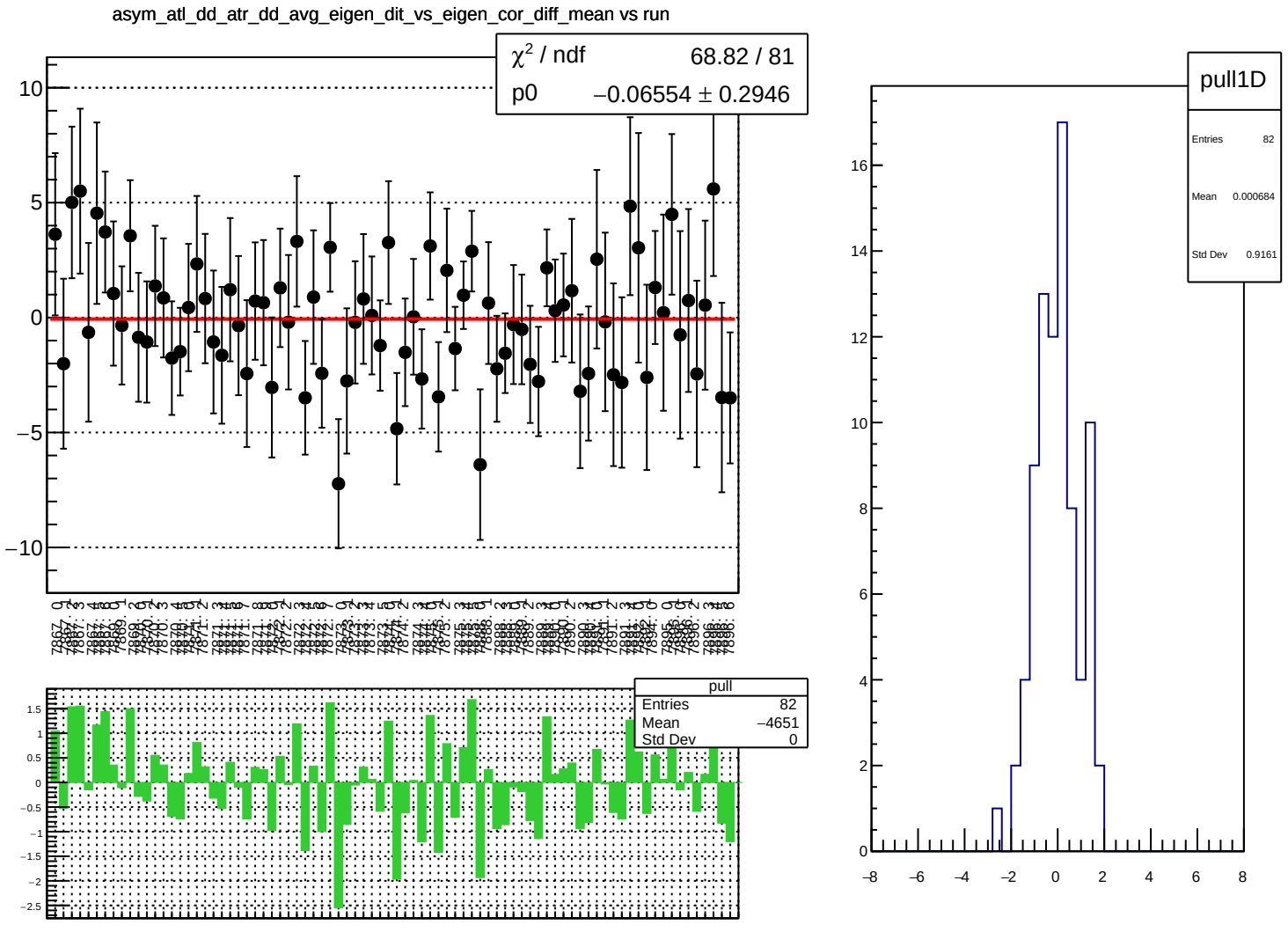

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.14 / 81
p0 −4.66e−06 ± 5.877e−06
pull
Entries 82
Mean 84.33
Std Dev 0

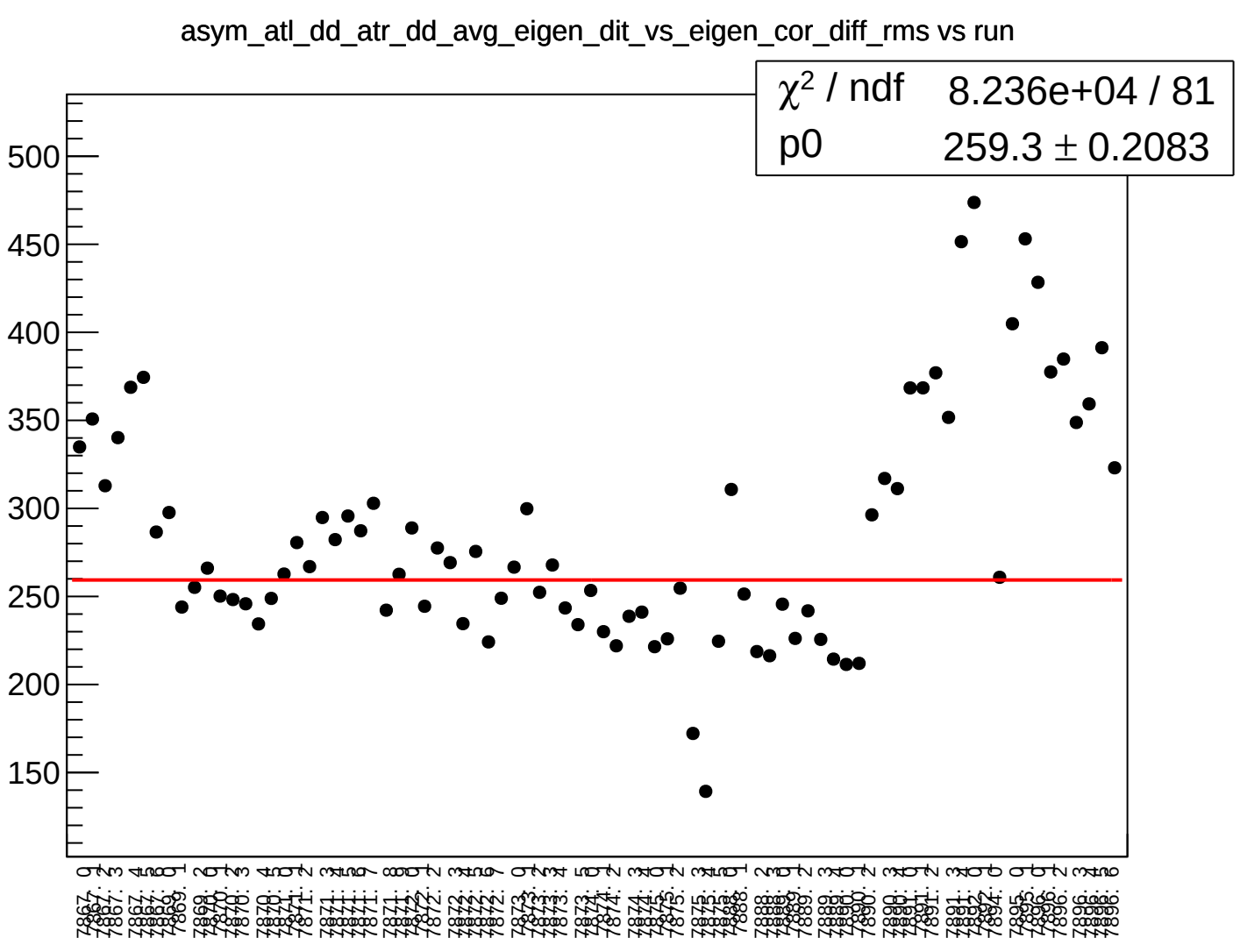

pull1D
Entries 82
Mean 0.03151
Std Dev 0.8558

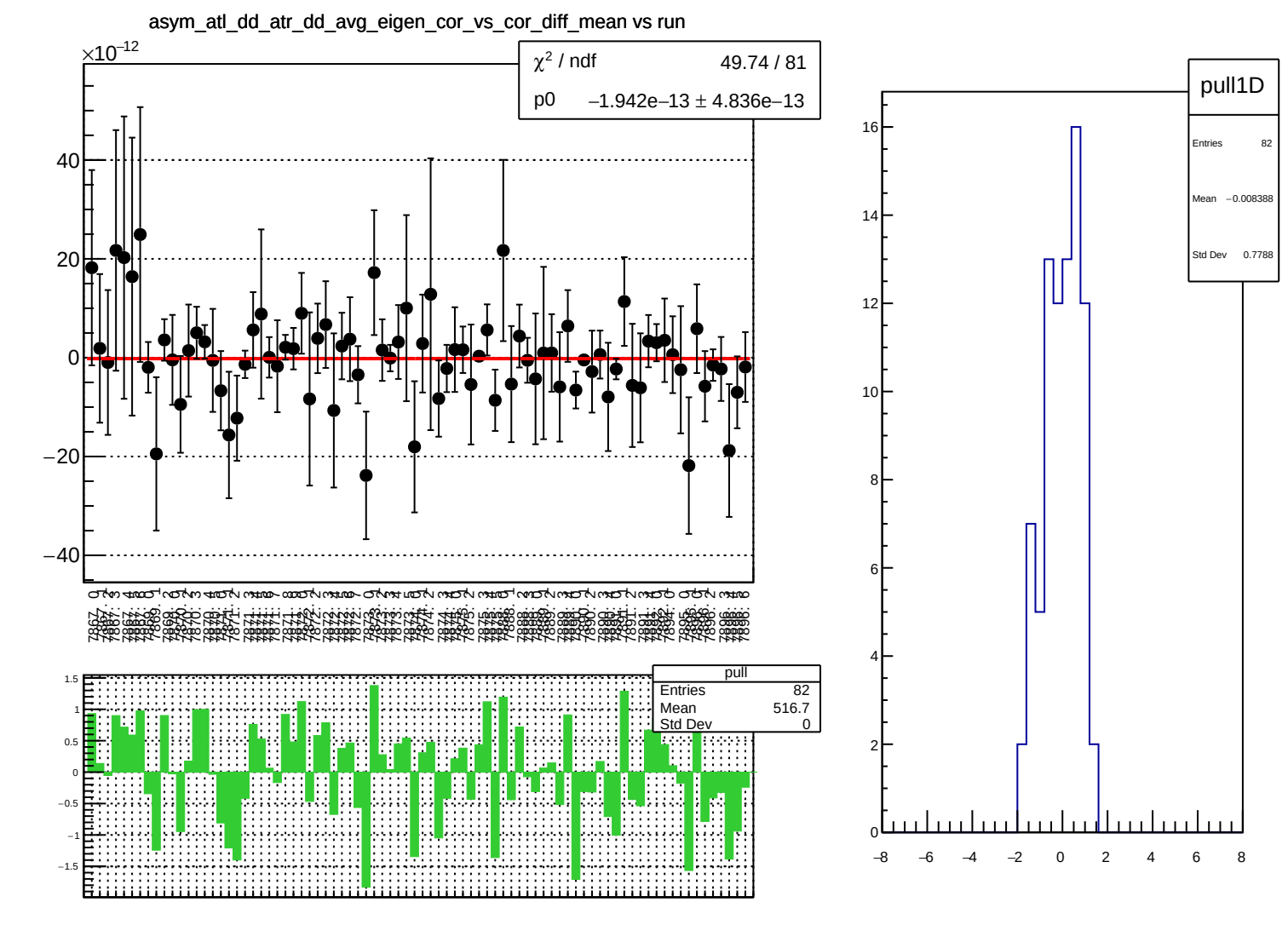

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.701e+05 / 81
p0 0.00485 ± 4.155e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

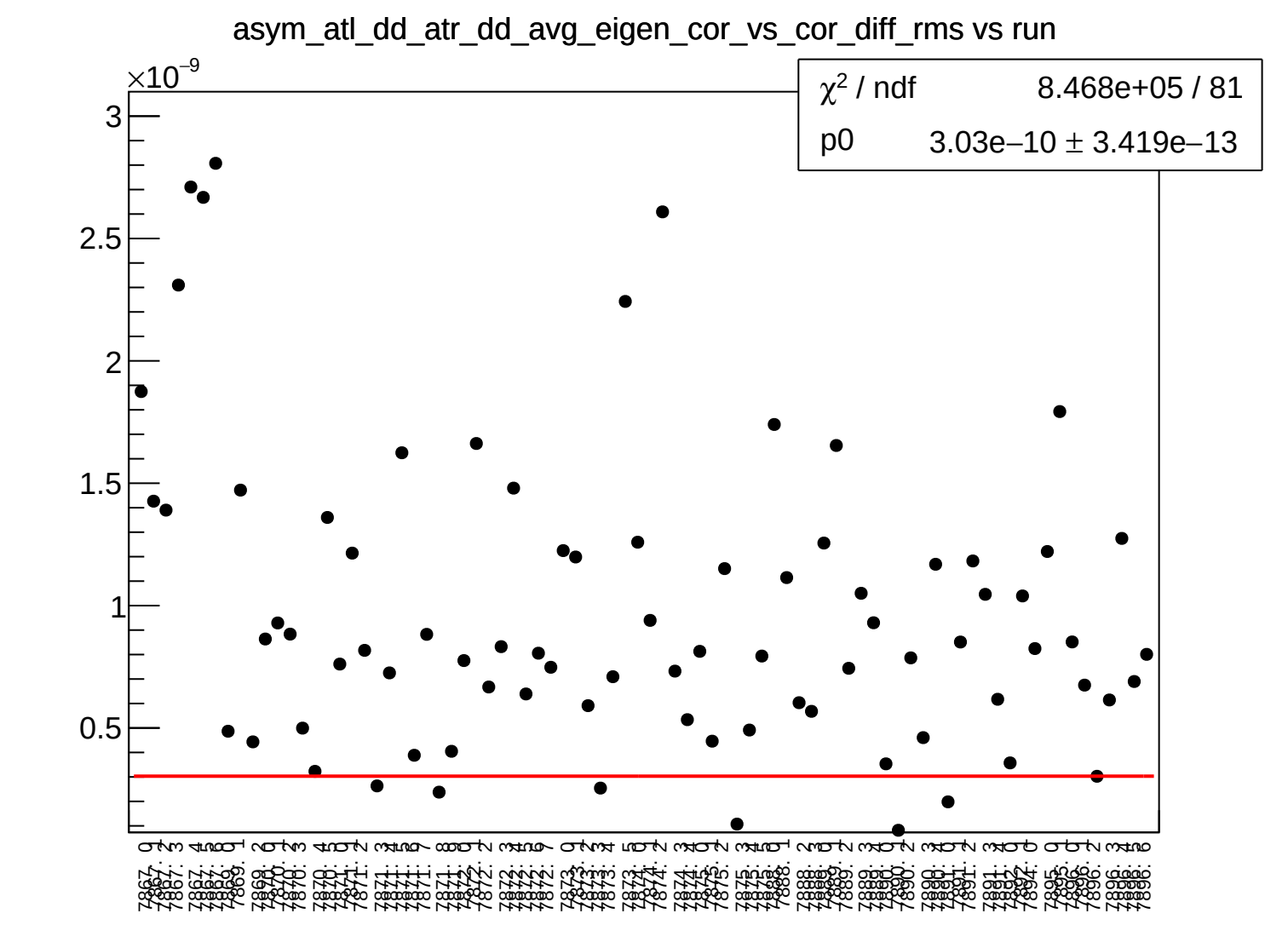

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4651
Std Dev 0
pull1D
Entries 82
Mean 0.000684
Std Dev 0.9161

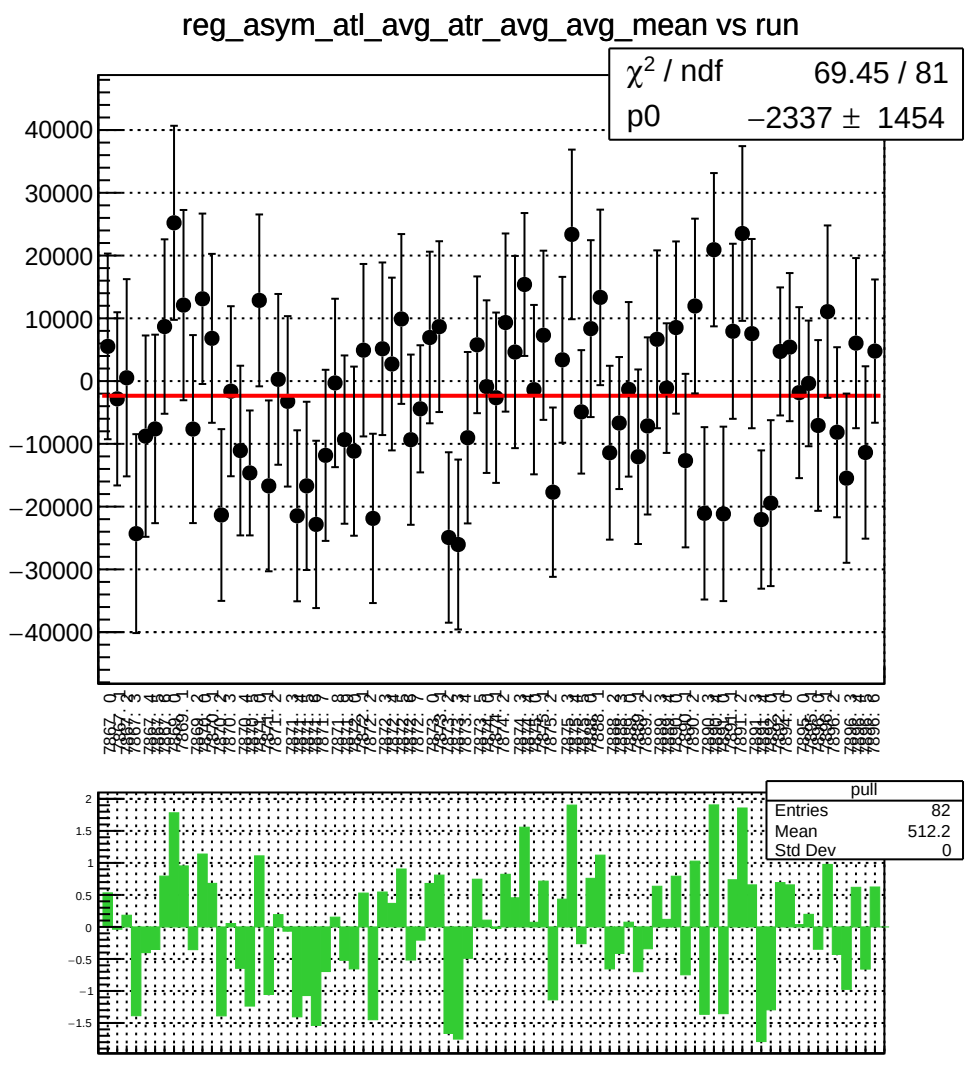

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

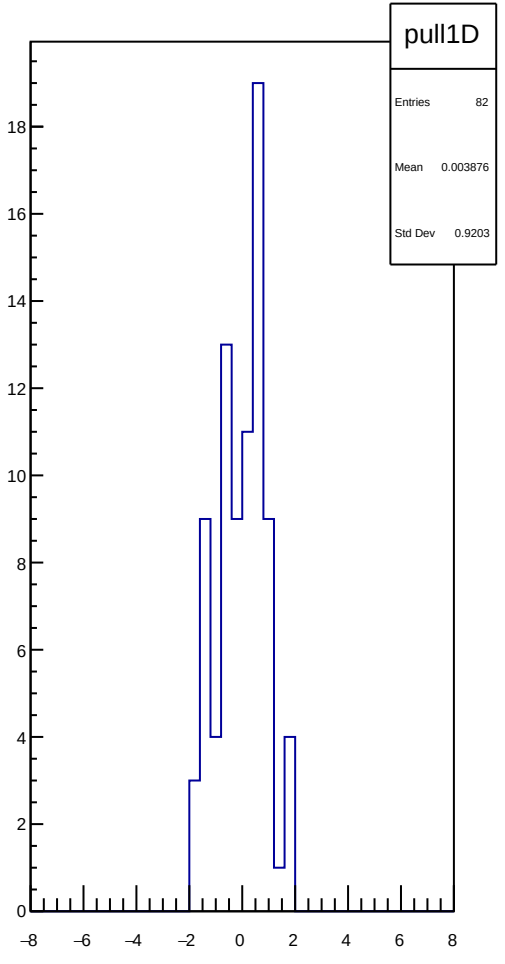

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4651
Std Dev 0
pull1D
Entries 82
Mean 0.000684
Std Dev 0.9161

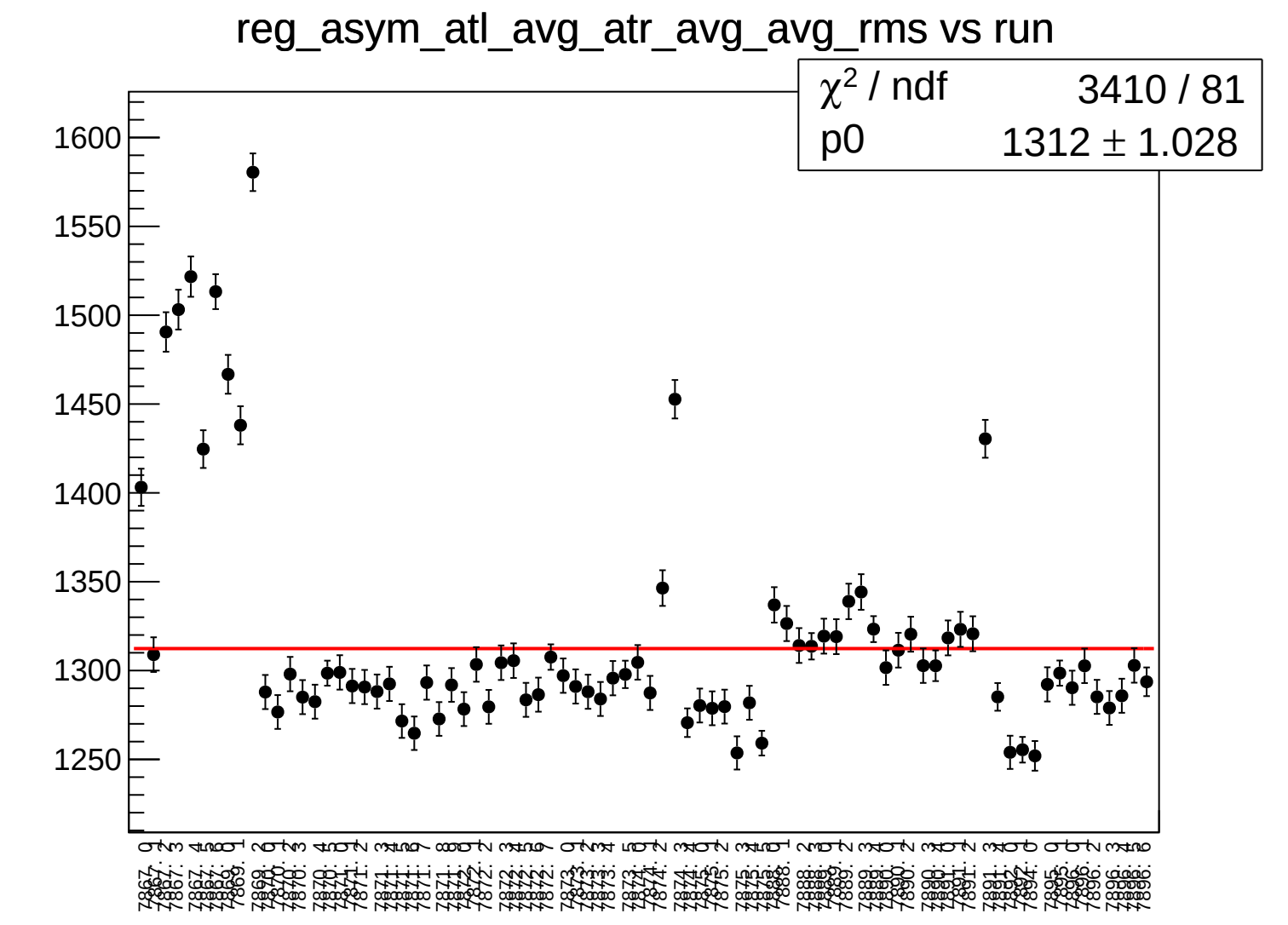

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

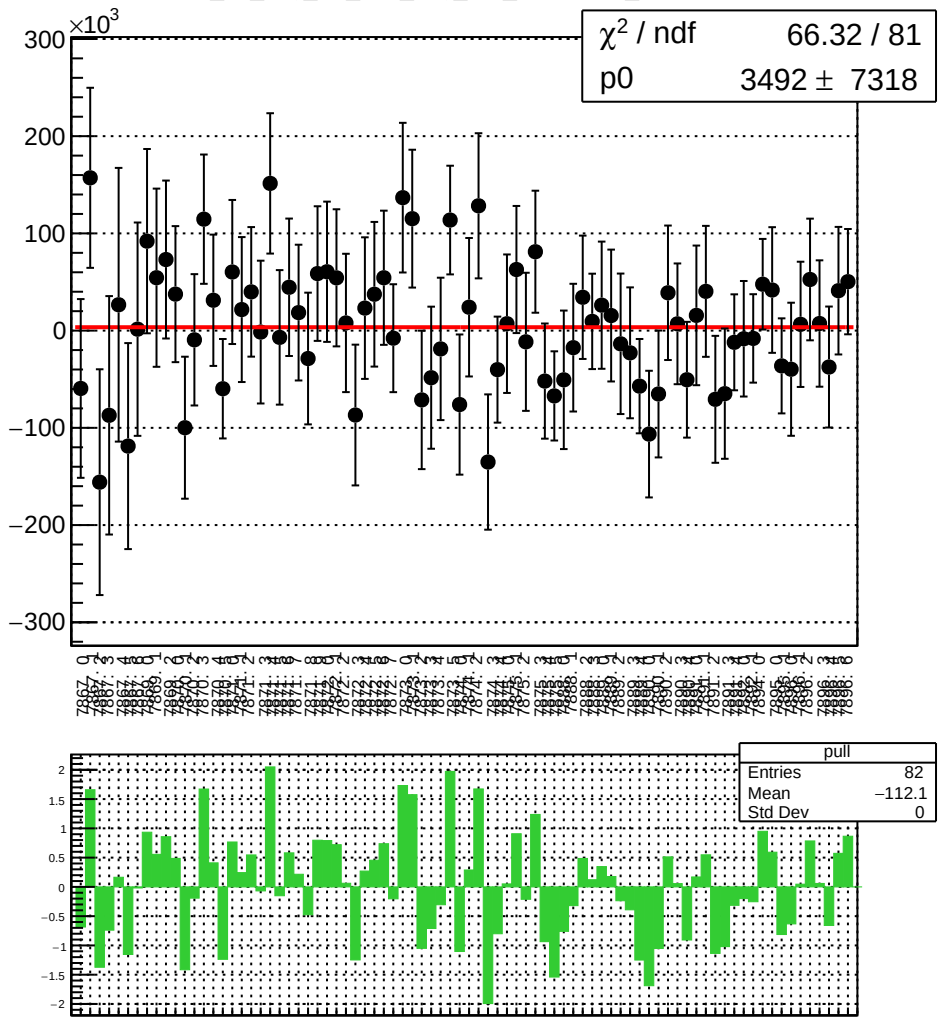

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 49.74 / 81
p0 −1.942e−13 ± 4.836e−13
pull
Entries 82
Mean 516.7
Std Dev 0
pull1D
Entries 82
Mean −0.008388
Std Dev 0.7788

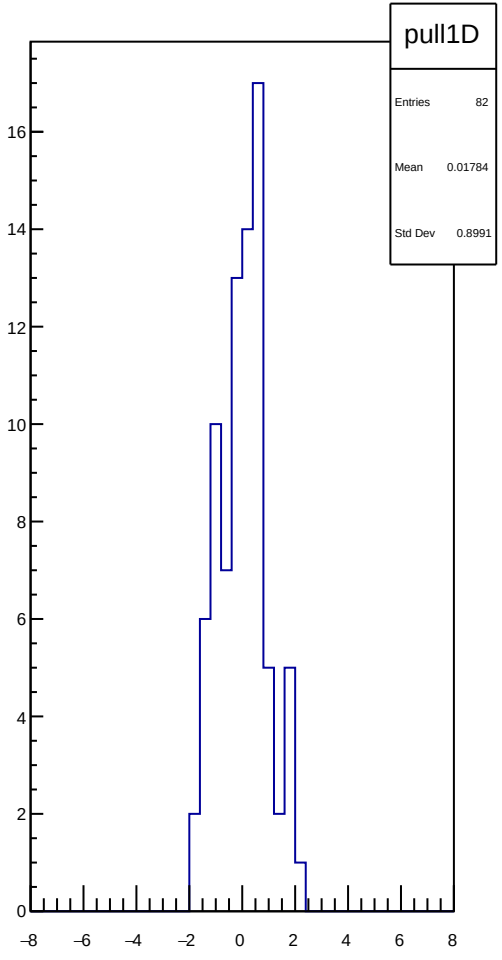

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.468e+05 / 81
p0 3.03e−10 ± 3.419e−13
3
2.5
2
1.5
1
0.5

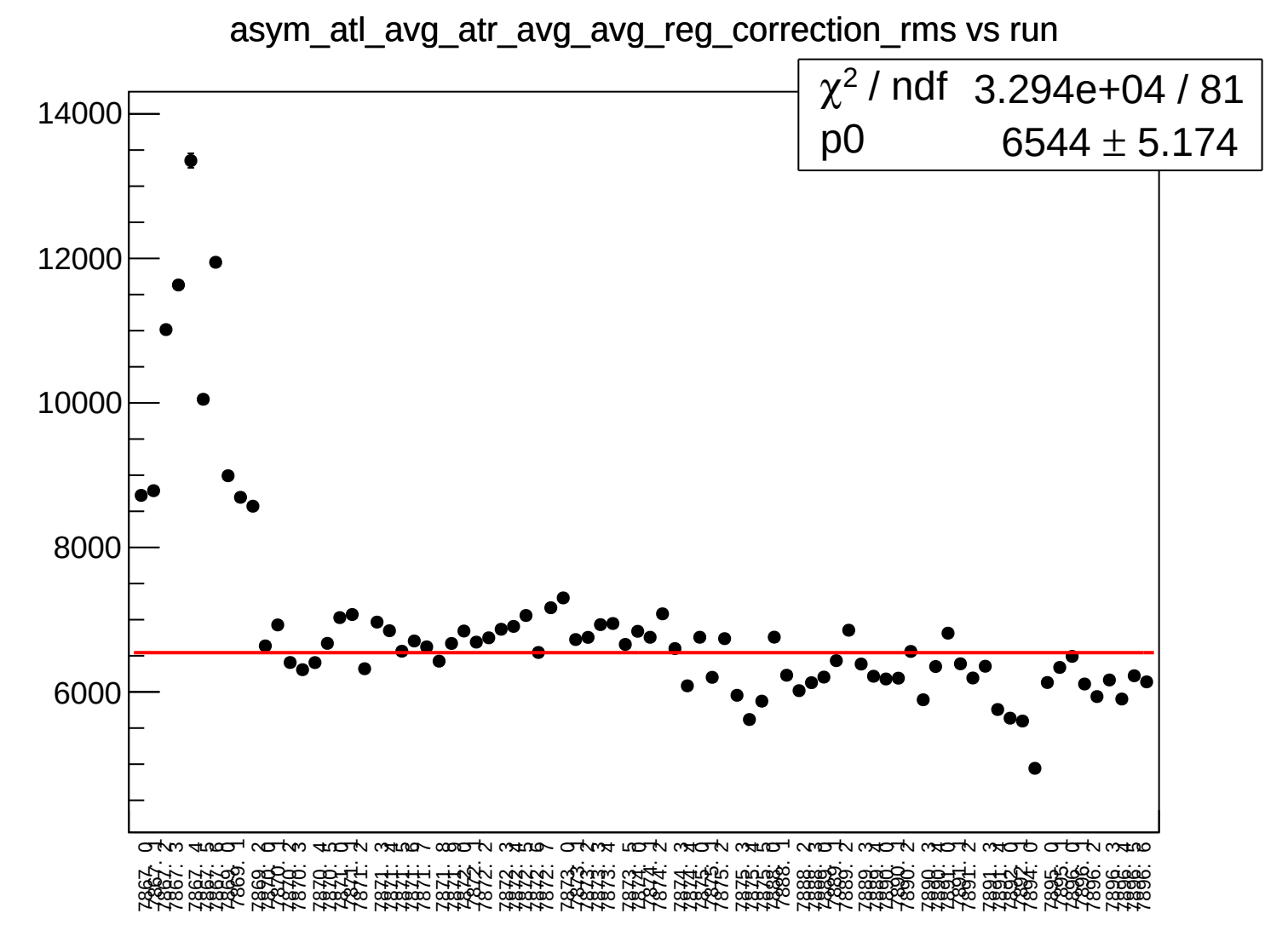

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 69.45 / 81
p0 −2337 ± 1454
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 512.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

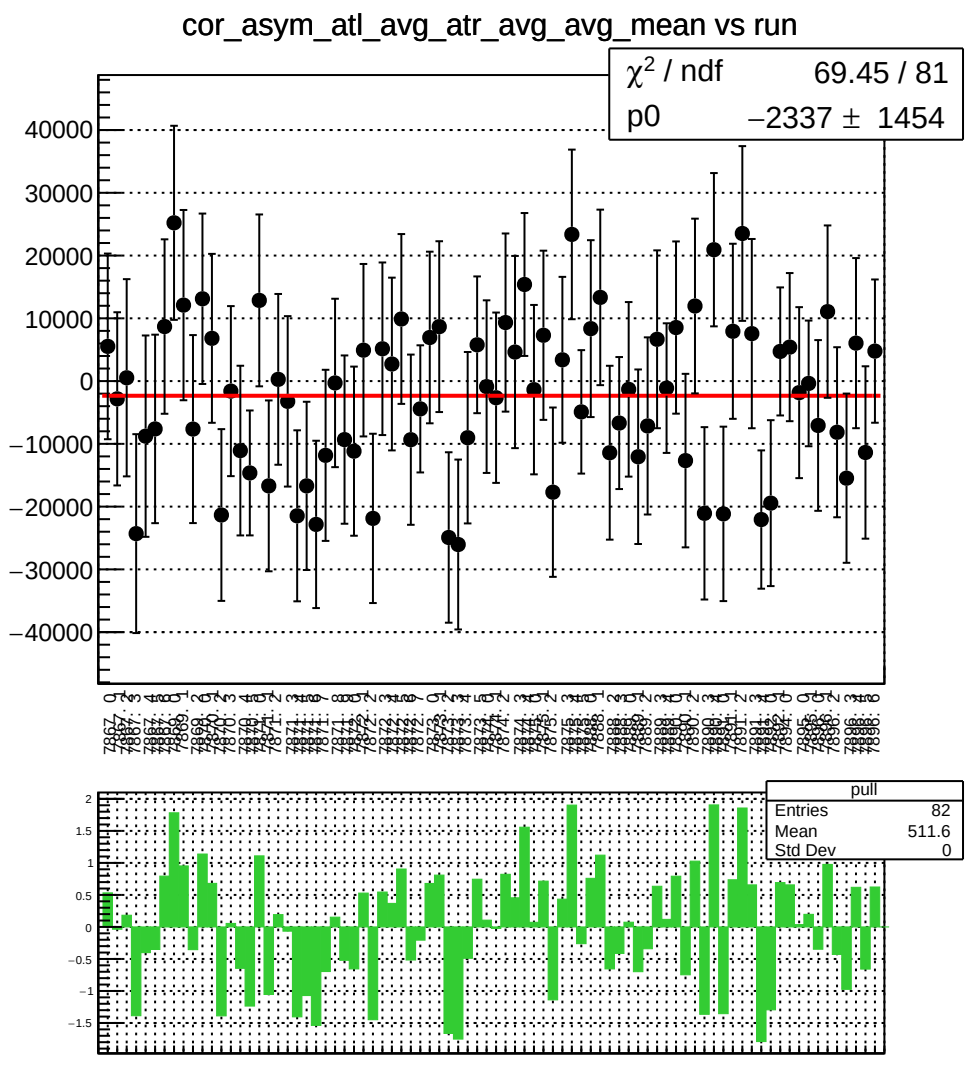

pull1D
Entries 82
Mean 0.003876
Std Dev 0.9203
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

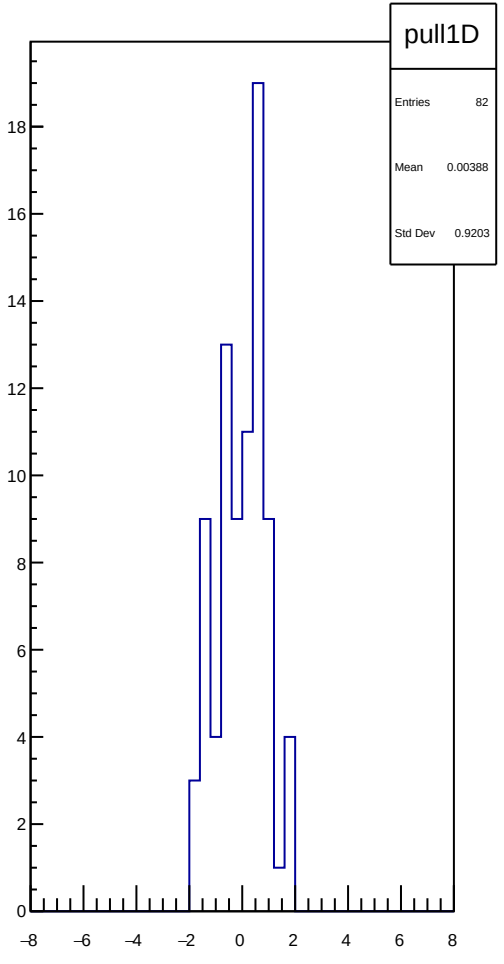

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3410 / 81
p0 1312 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

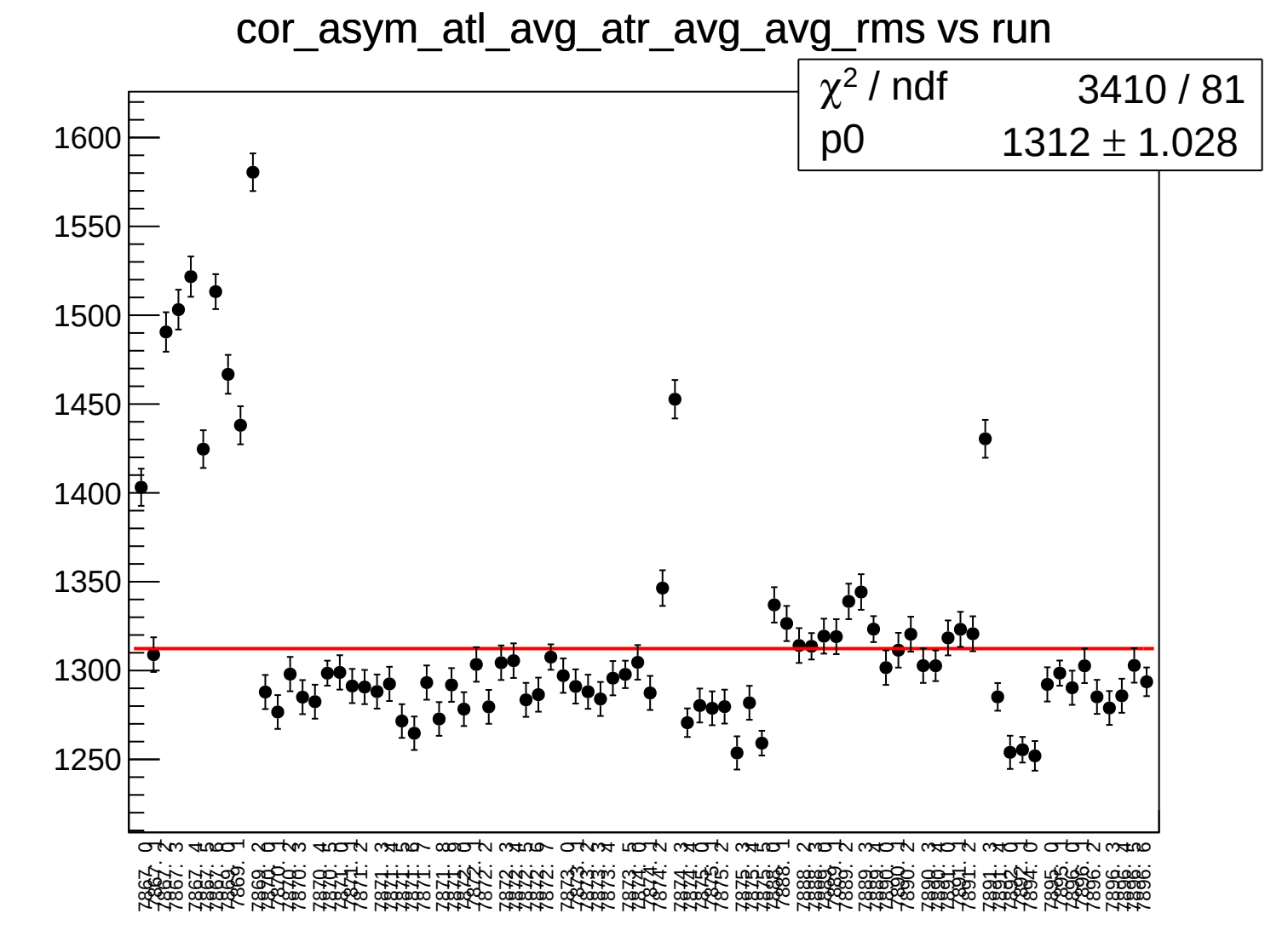

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.32 / 81
p0 3492 ± 7318
pull
Entries 82
Mean −112.1
Std Dev 0

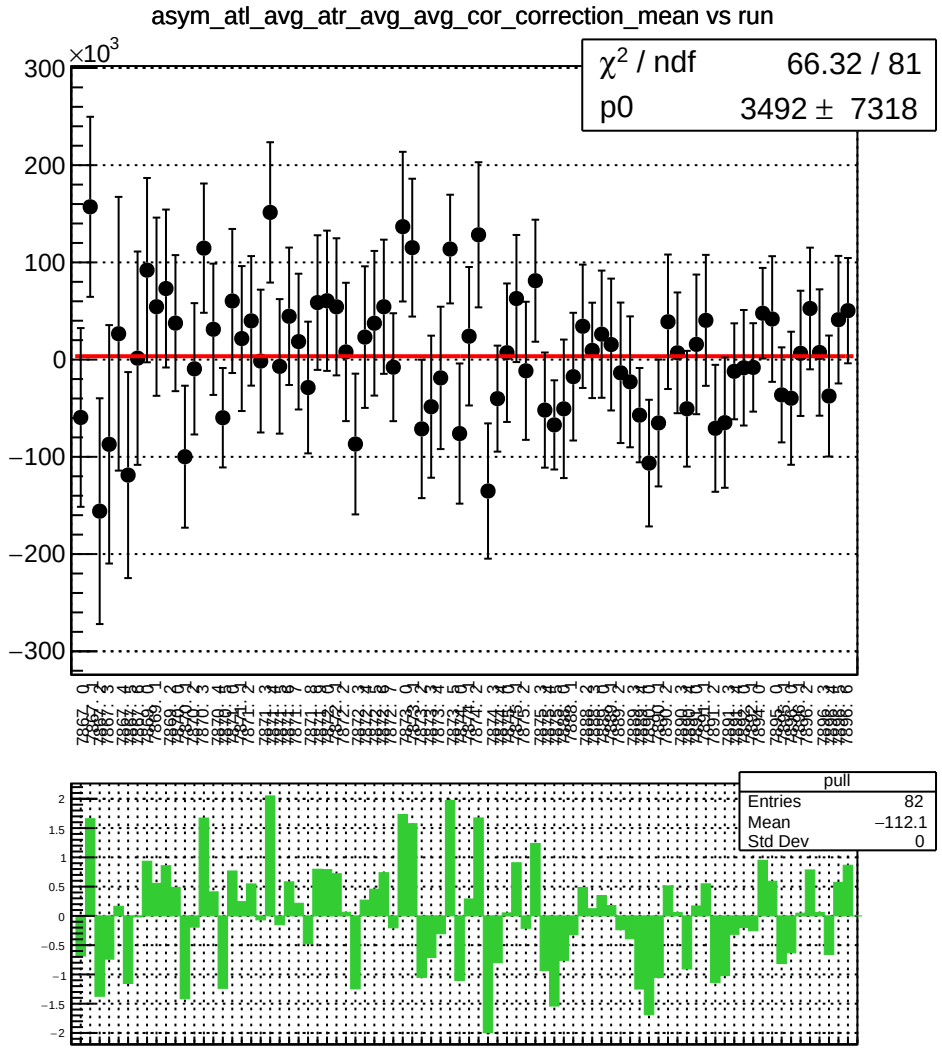

pull1D
Entries 82
Mean 0.01784
Std Dev 0.8991

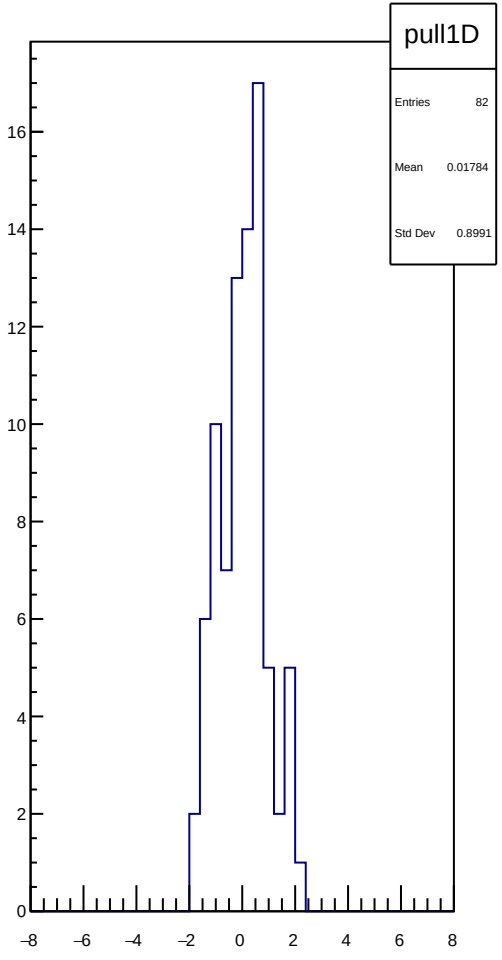

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.294e+04 / 81
p0 6544 ± 5.174
14000
12000
10000
8000
6000

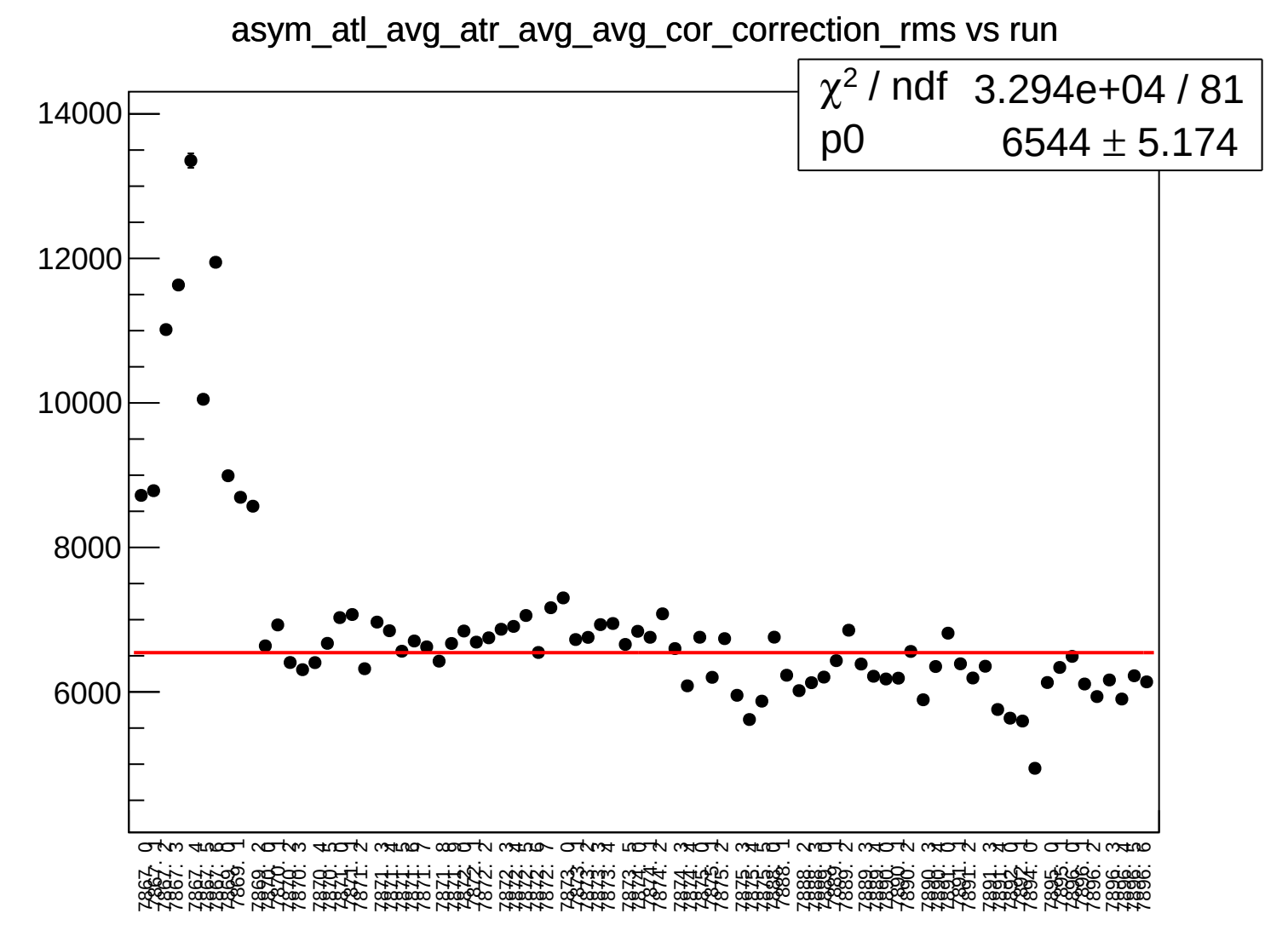

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 69.45 / 81
p0 −2337 ± 1454
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 511.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

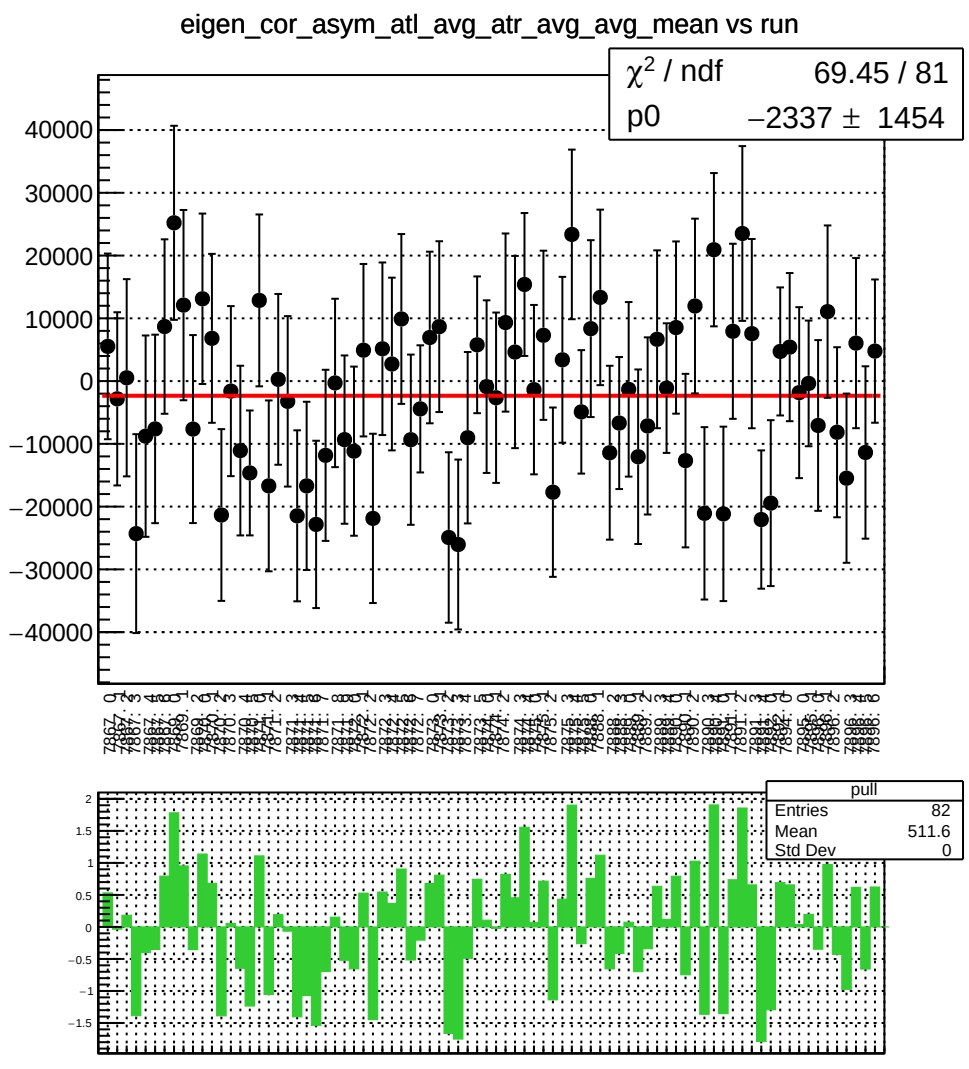

pull1D
Entries 82
Mean 0.00388
Std Dev 0.9203
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

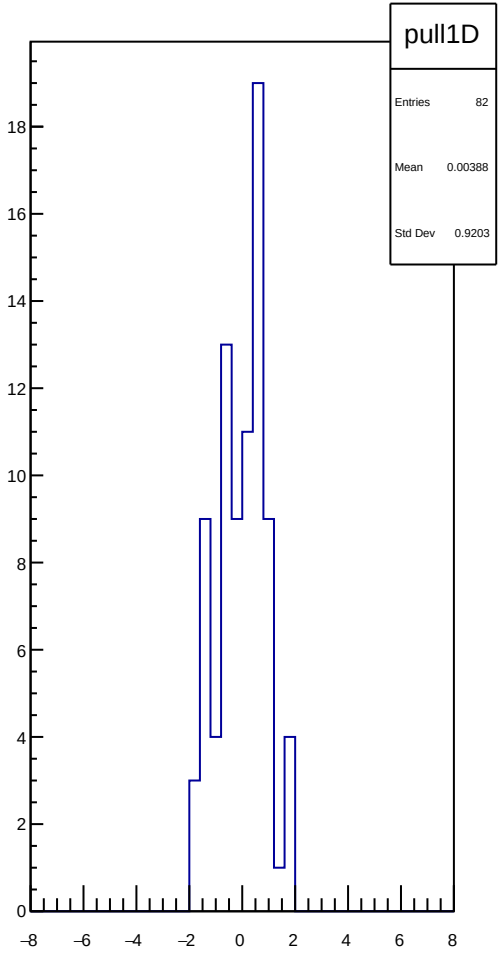

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3410 / 81
p0 1312 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

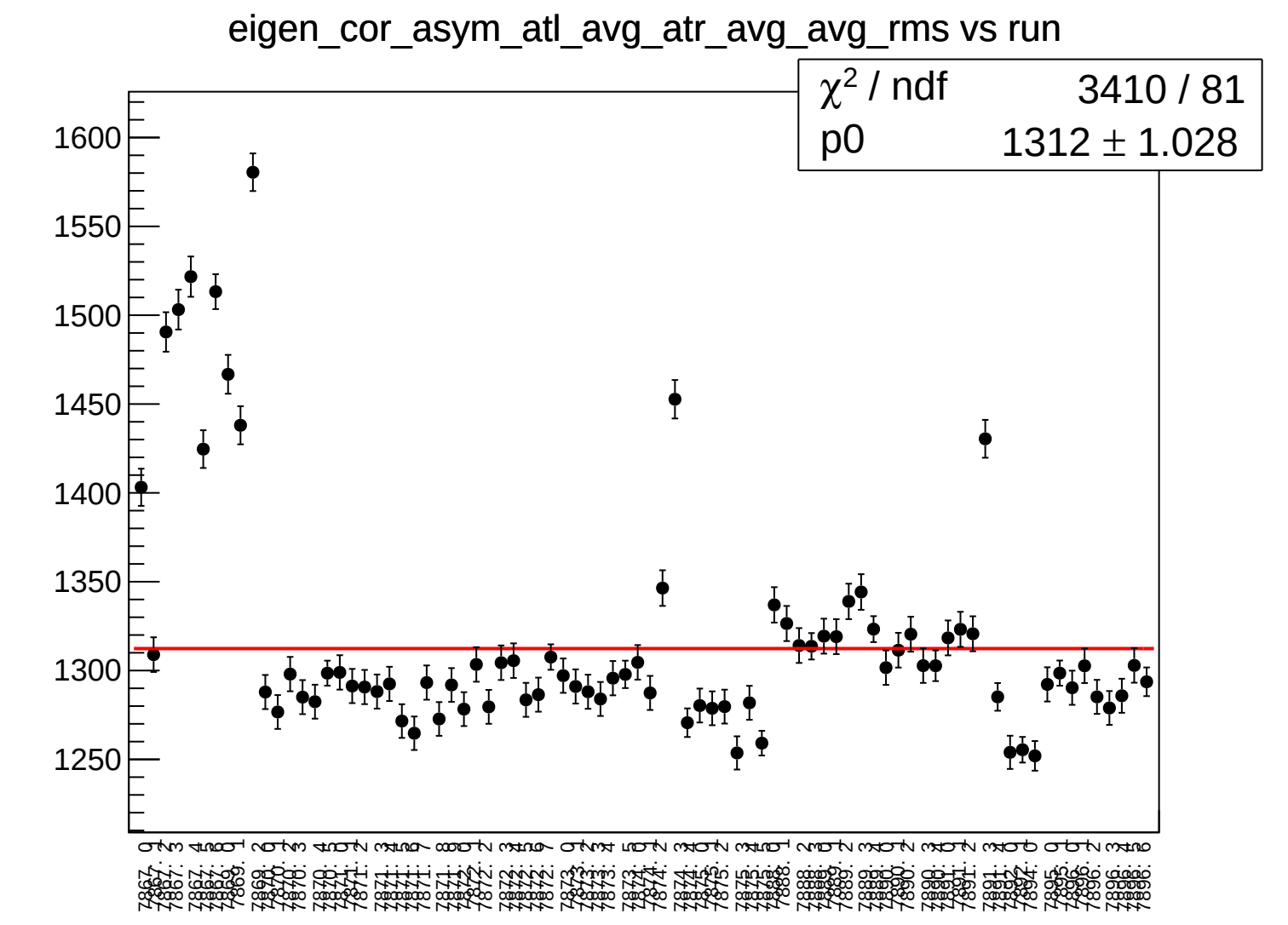

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.32 / 81
p0 3492 ± 7318
pull
Entries 82
Mean −112.1
Std Dev 0

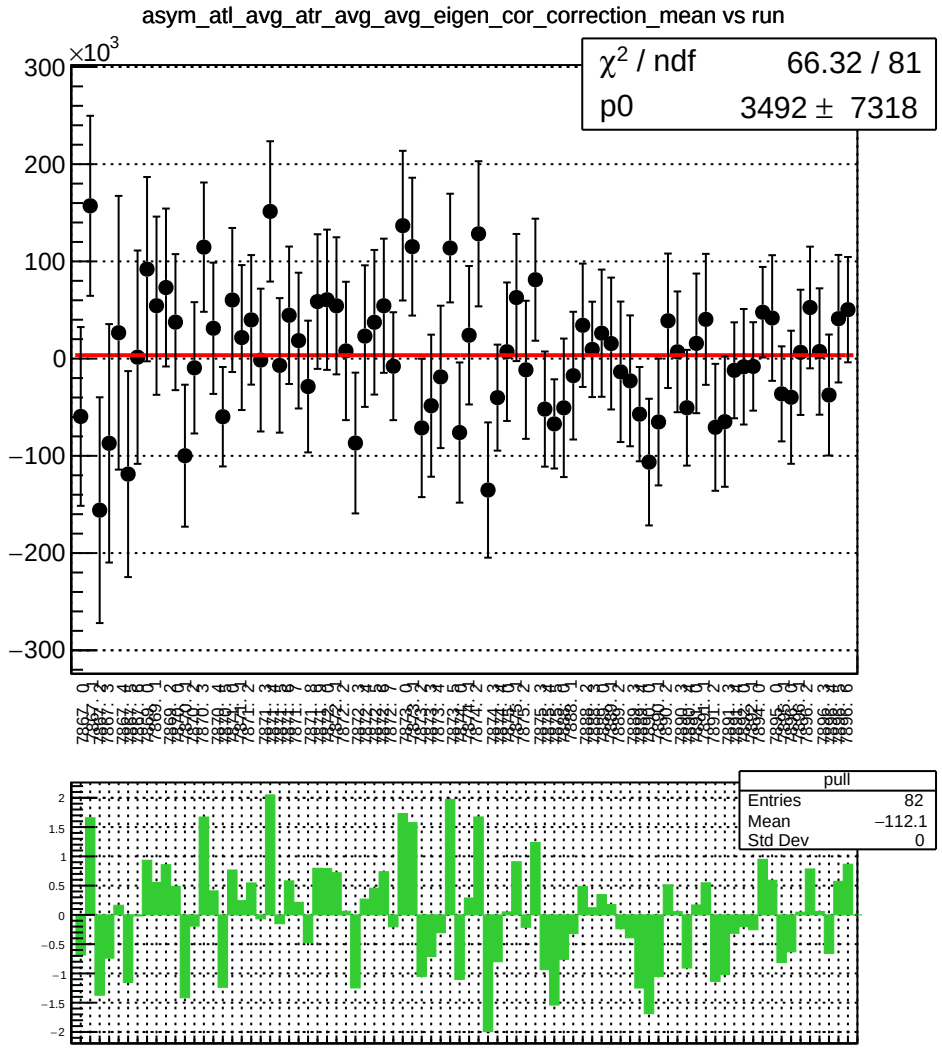

pull1D
Entries 82
Mean 0.01784
Std Dev 0.8991

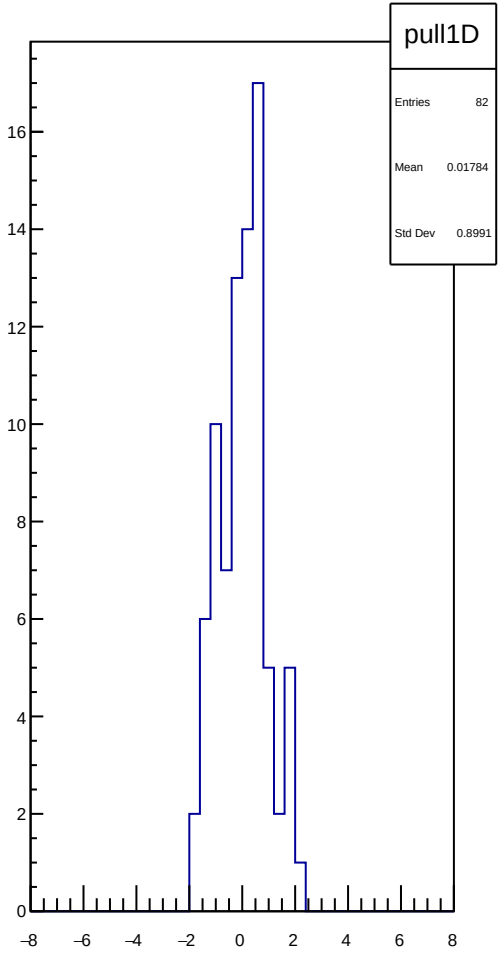

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.294e+04 / 81
p0 6544 ± 5.174
14000
12000
10000
8000
6000

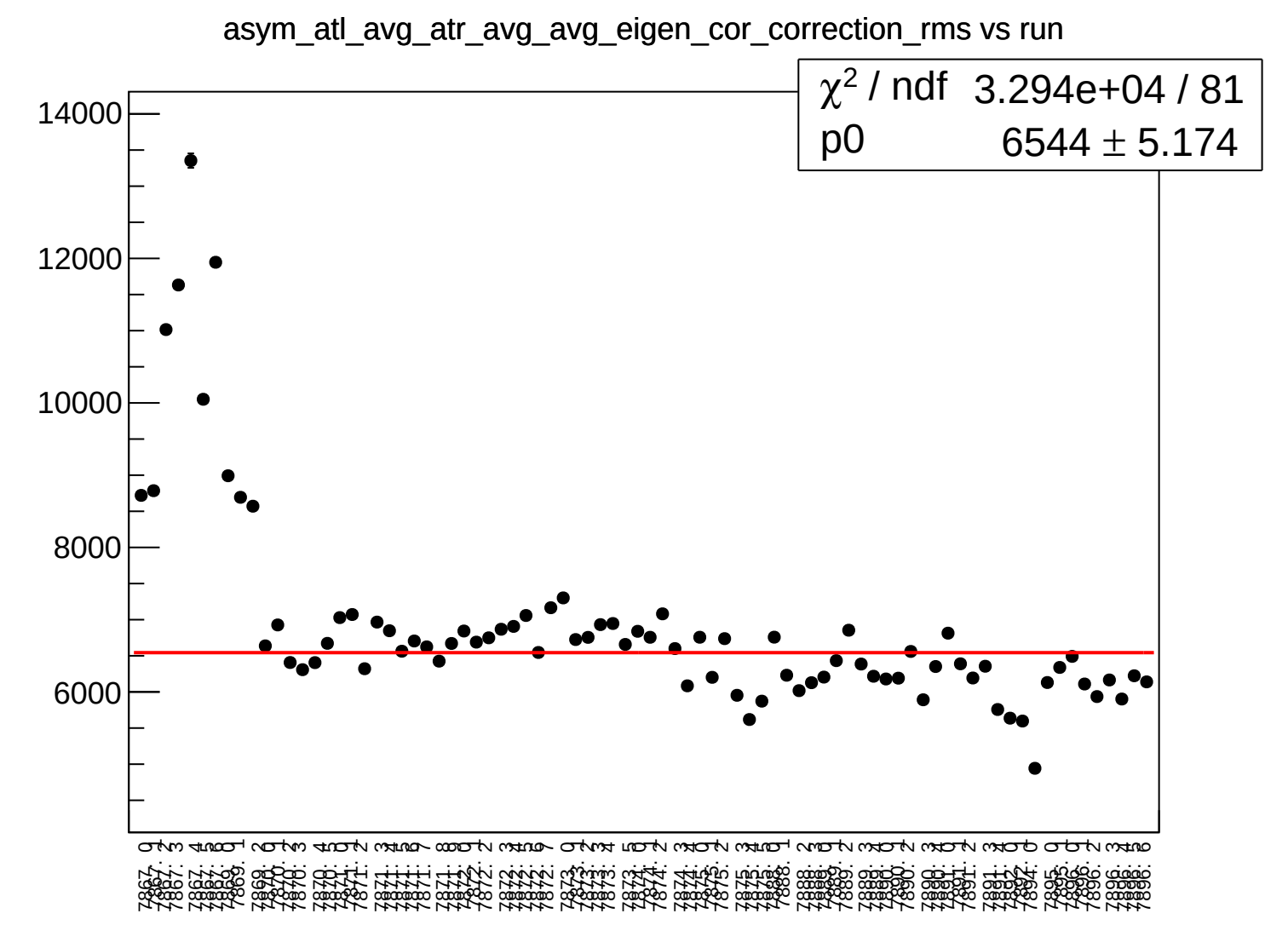

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 69.45 / 81
p0 −2337 ± 1454
pull
Entries 82
Mean 511.6
Std Dev 0

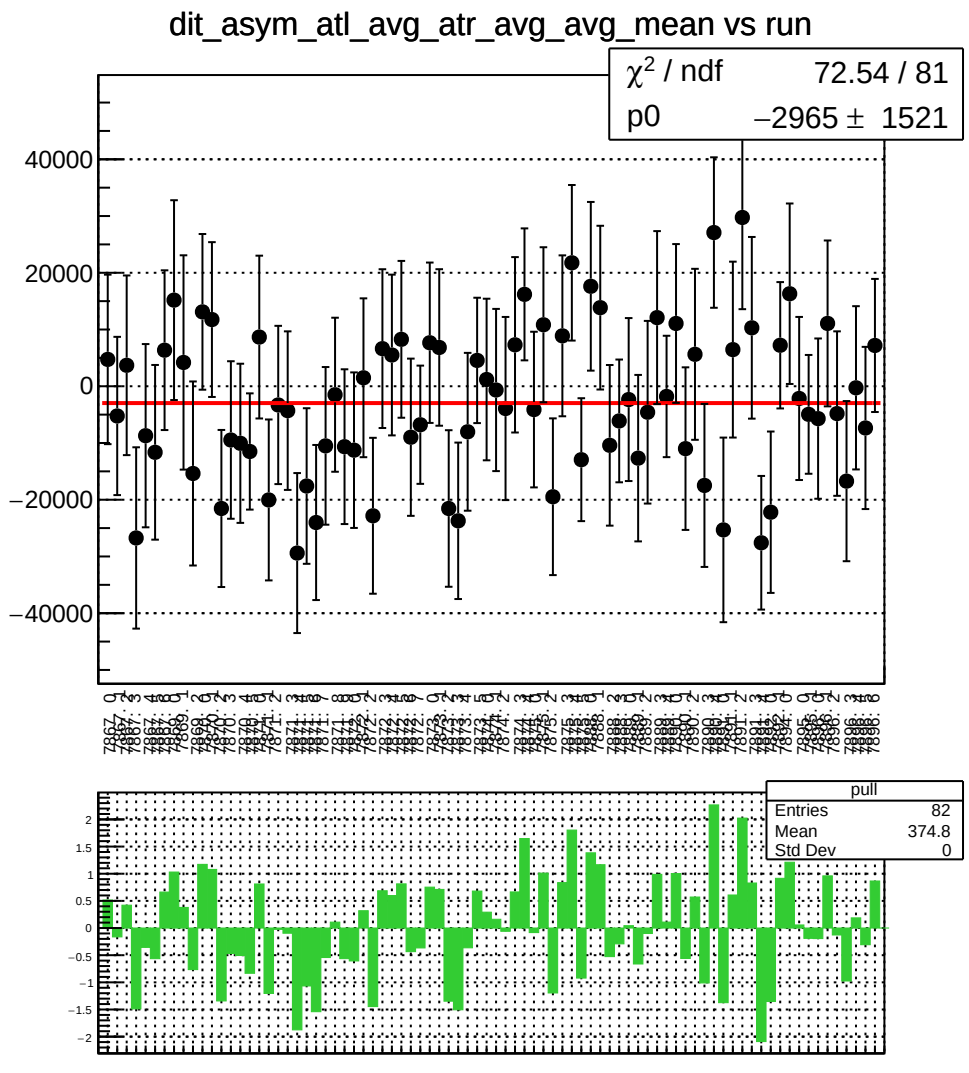

pull1D
Entries 82
Mean 0.00388
Std Dev 0.9203

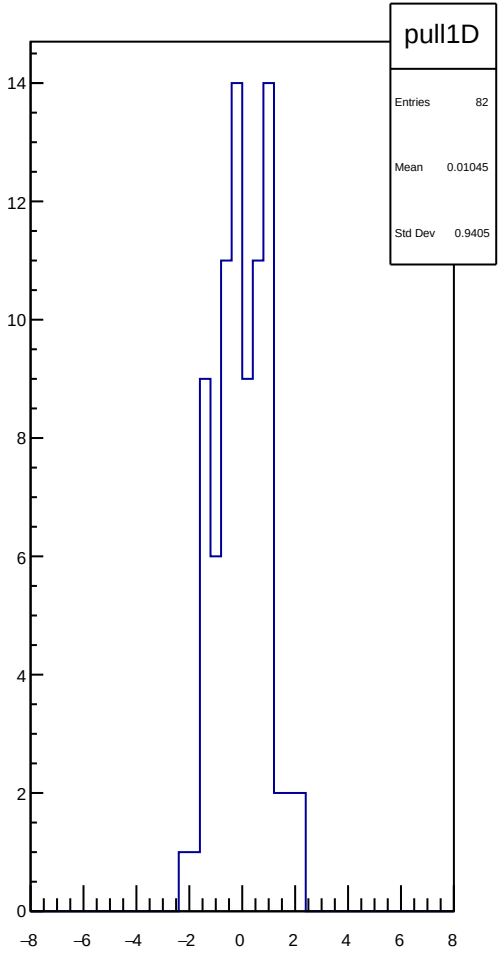

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3410 / 81
p0 1312 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

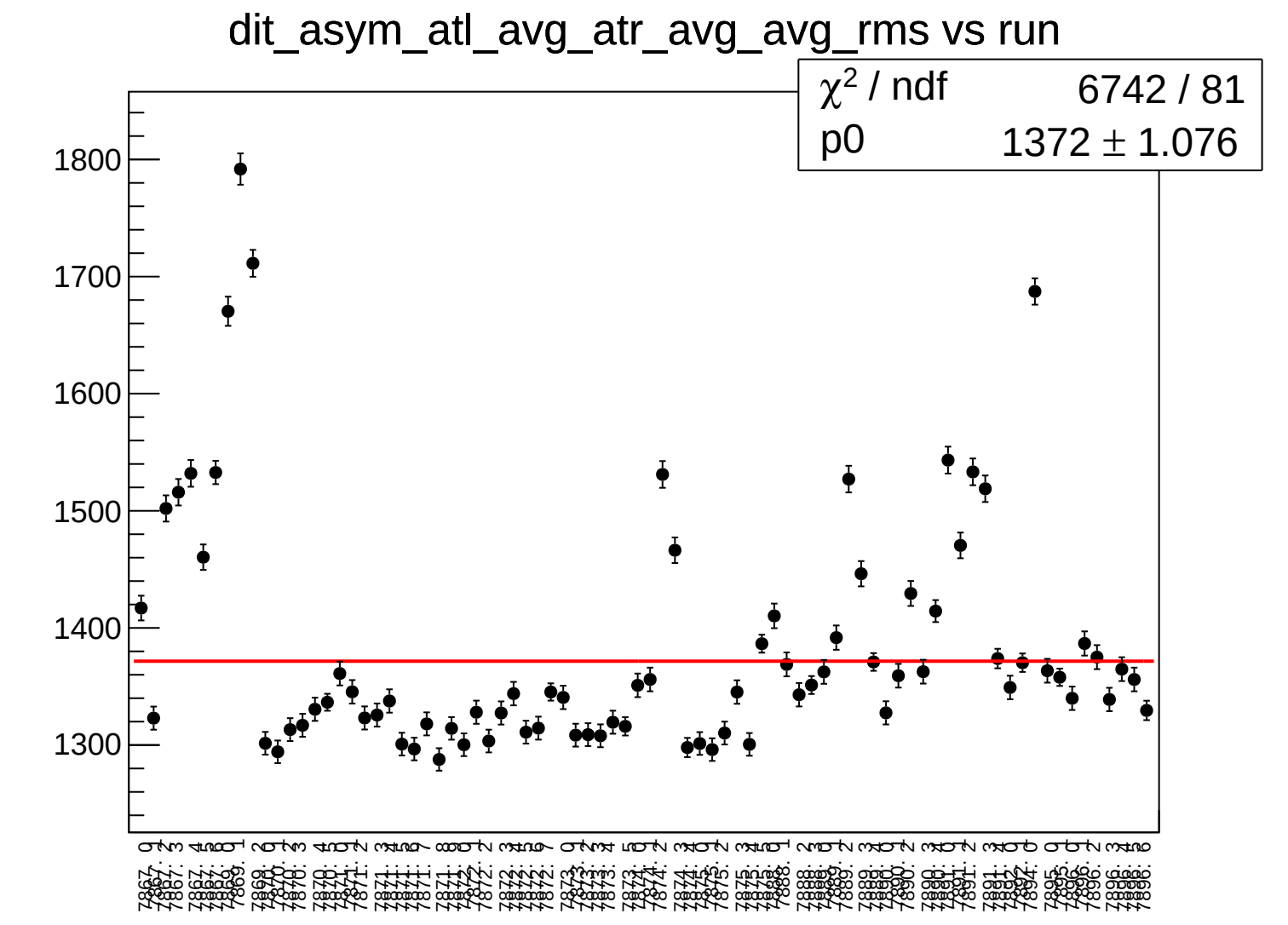

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.32 / 81
p0 3492 ± 7318
pull
Entries 82
Mean −112.1
Std Dev 0

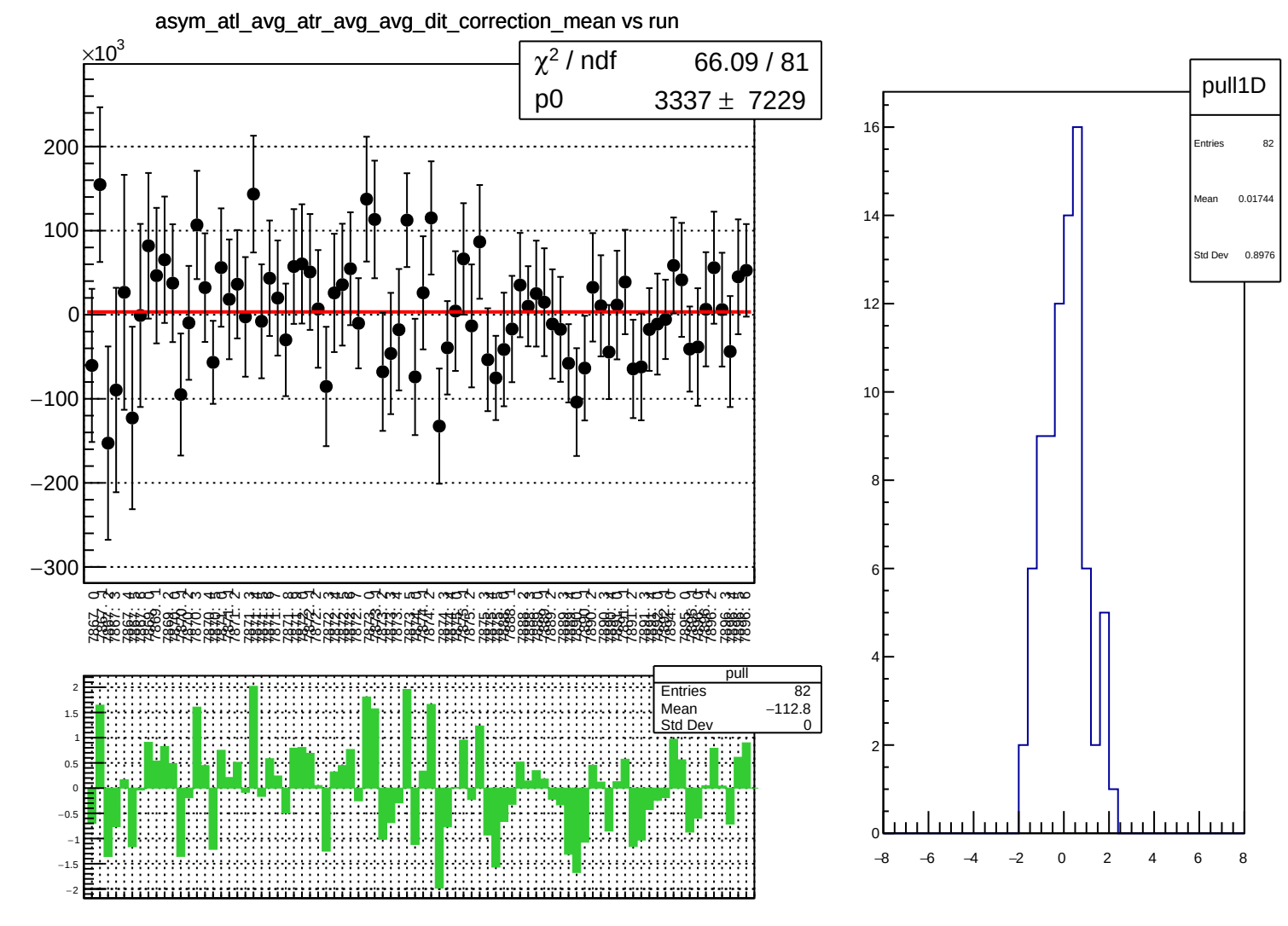

pull1D
Entries 82
Mean 0.01784
Std Dev 0.8991

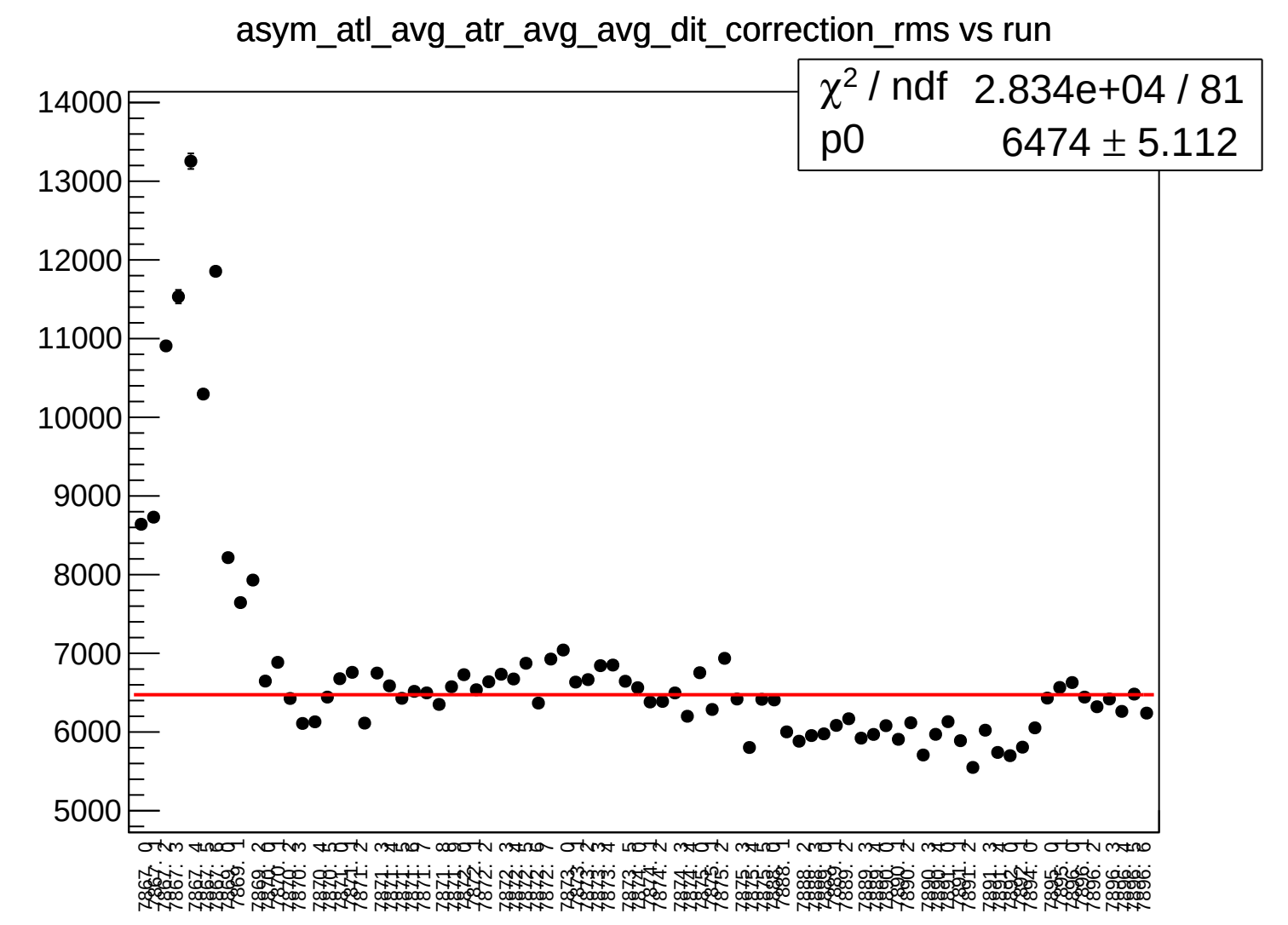

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.294e+04 / 81
p0 6544 ± 5.174
14000
12000
10000
8000
6000

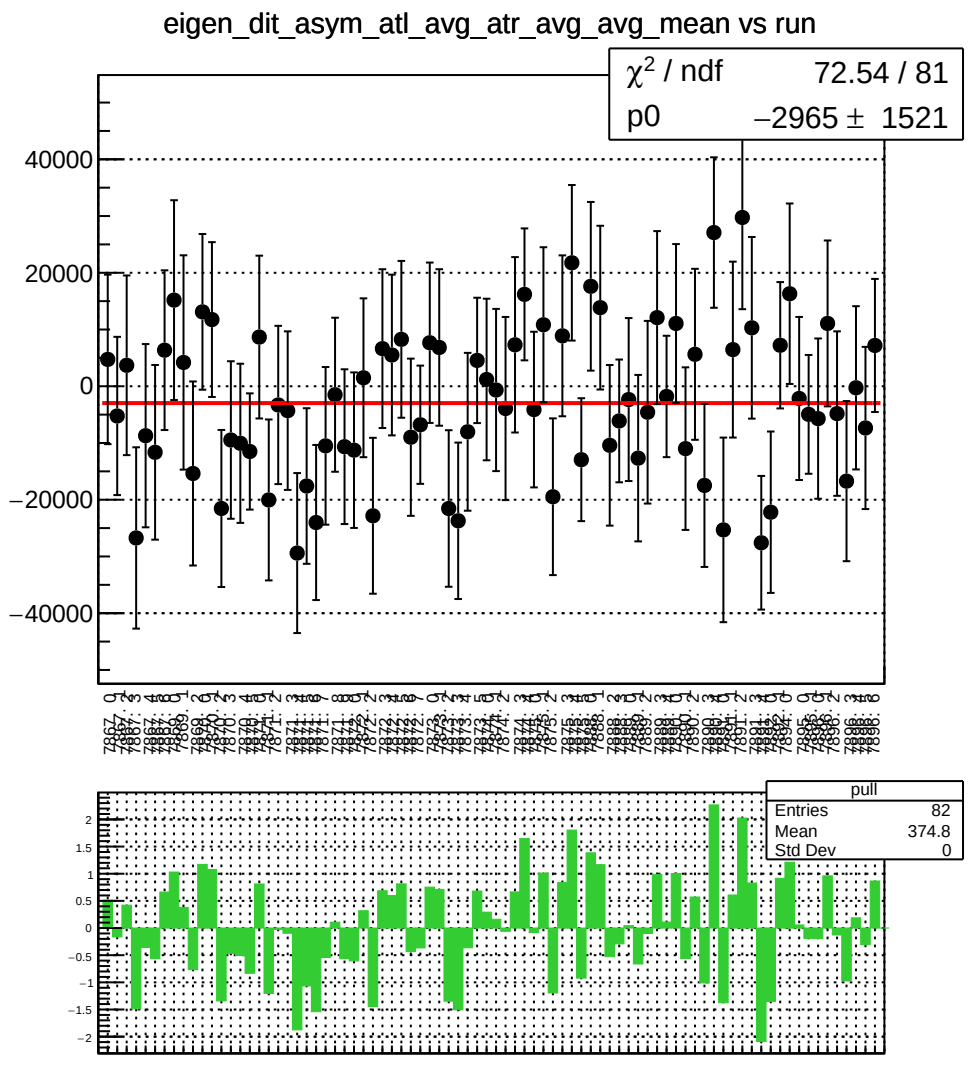

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 72.54 / 81
p0 −2965 ± 1521
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 374.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

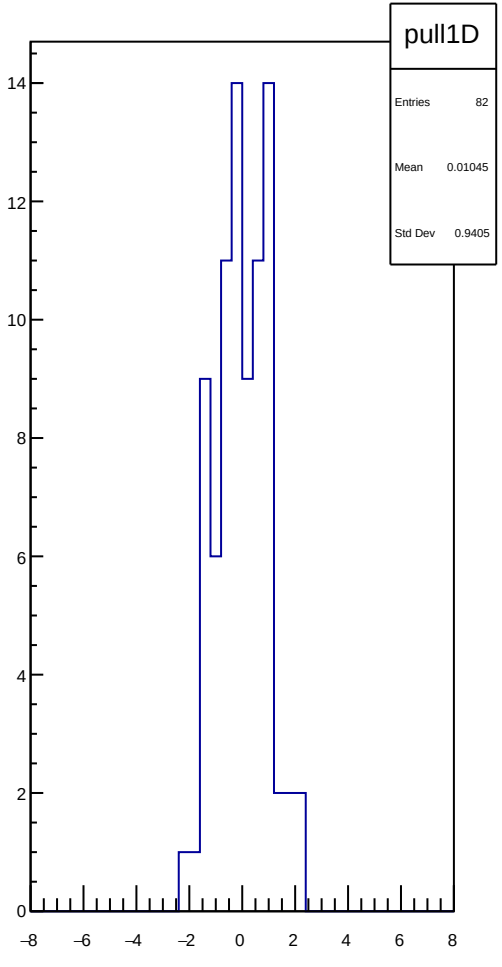

pull1D
Entries 82
Mean 0.01045
Std Dev 0.9405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

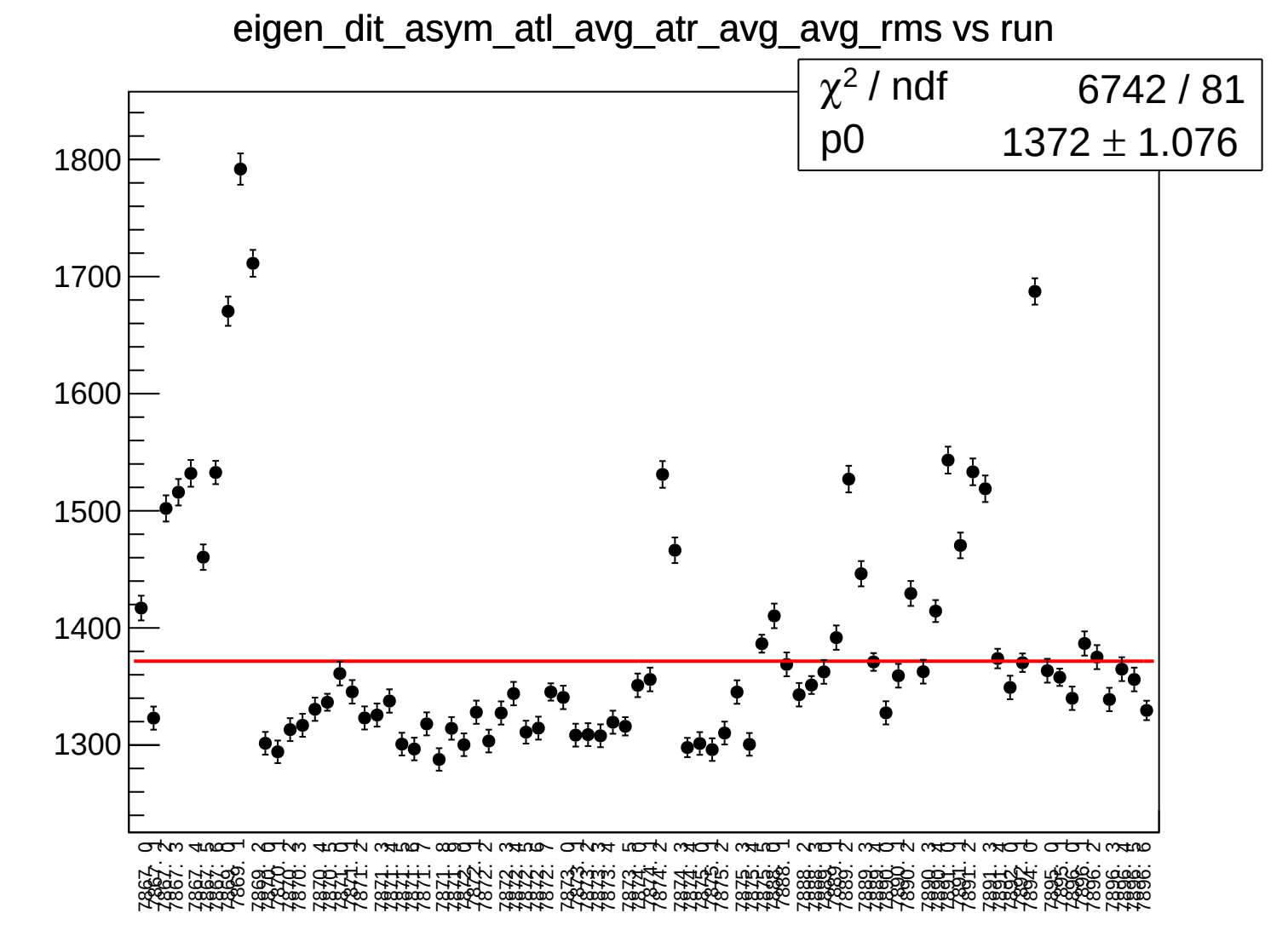

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6742 / 81
p0 1372 ± 1.076
1800
1700
1600
1500
1400
1300

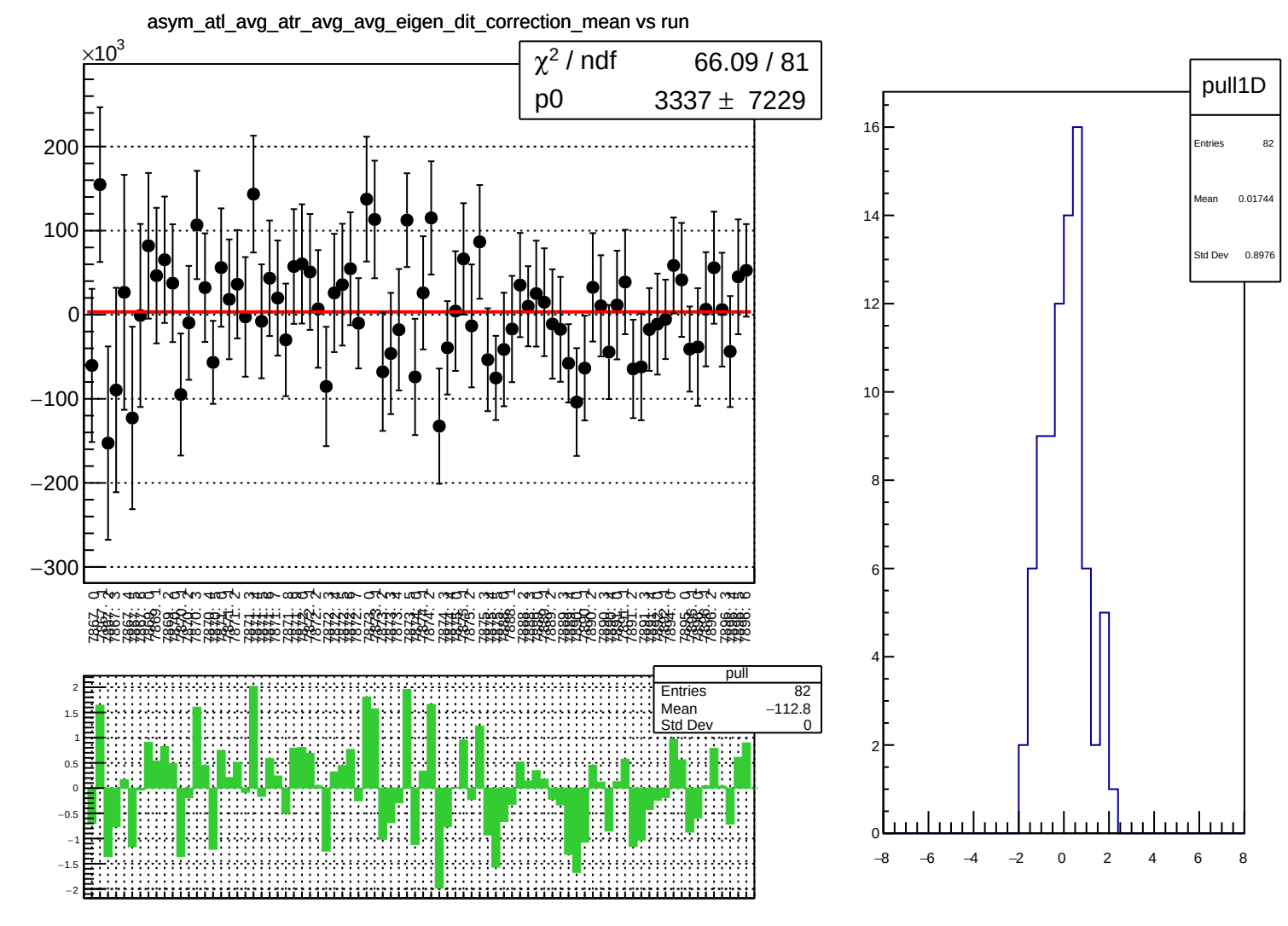

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.09 / 81
p0 3337 ± 7229
200
100
0
−100
−200
−300
pull
Entries 82
Mean −112.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.01744
Std Dev 0.8976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

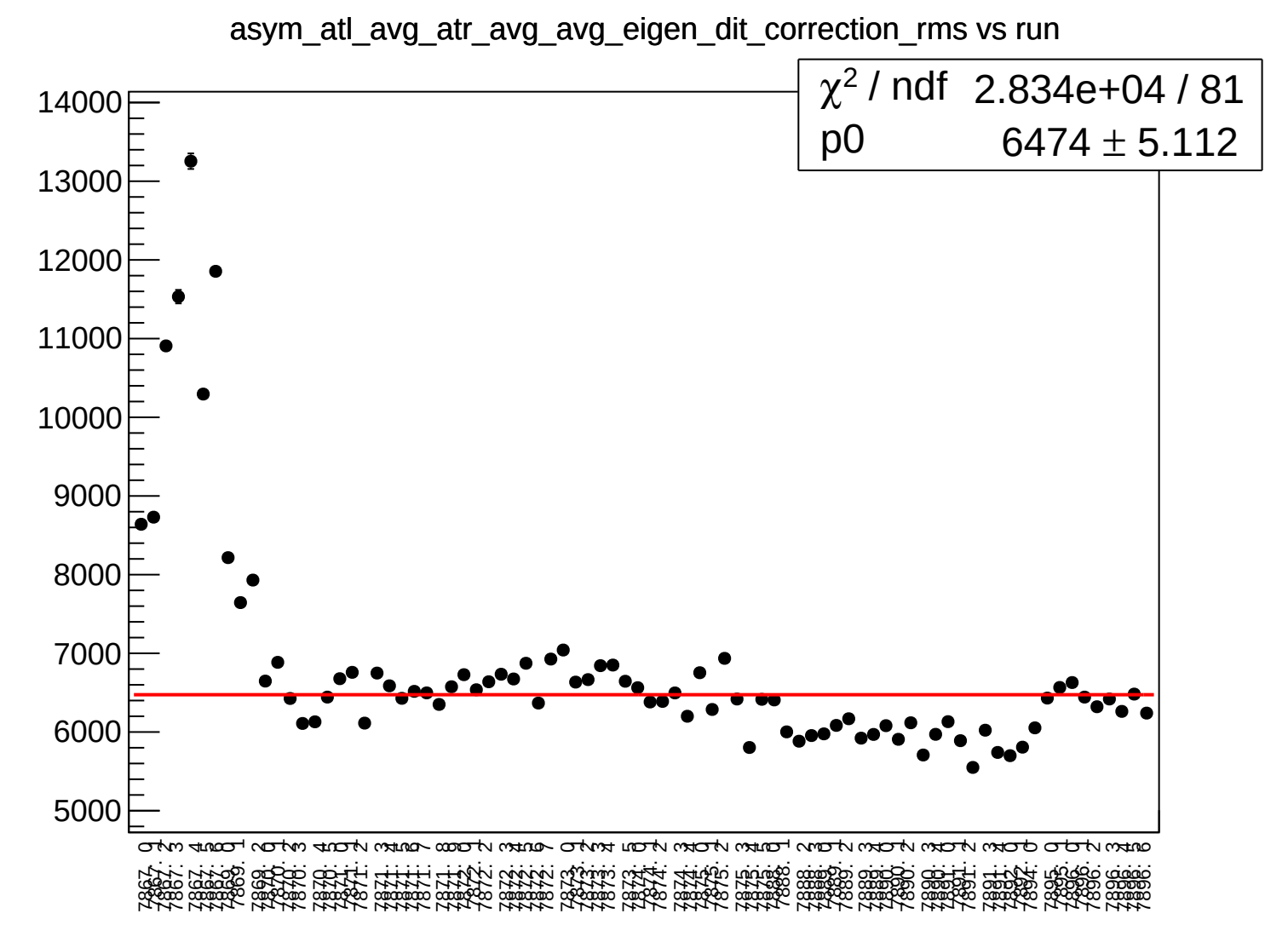

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.834e+04 / 81
p0 6474 ± 5.112
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

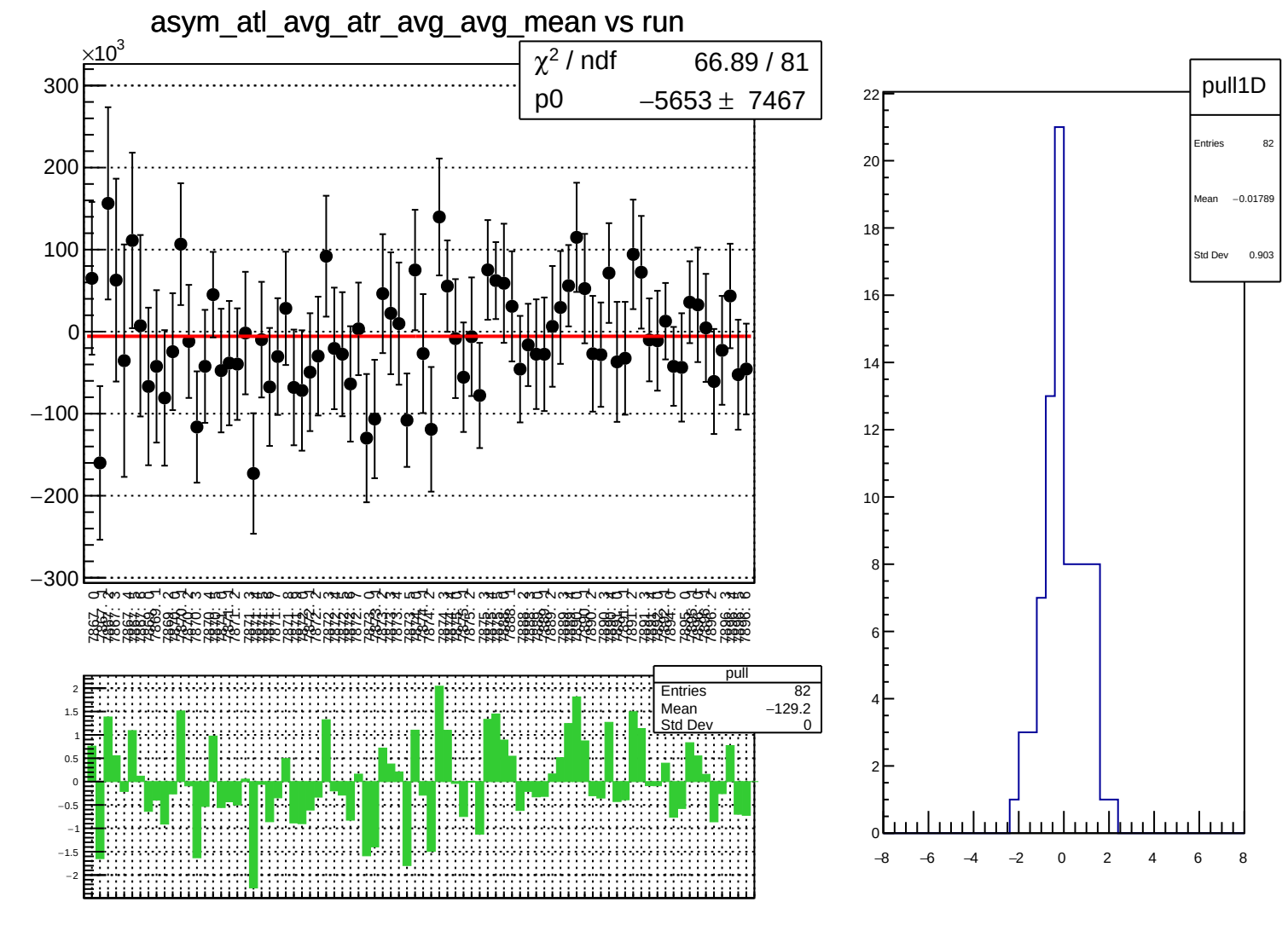

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 72.54 / 81
p0 −2965 ± 1521
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 374.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

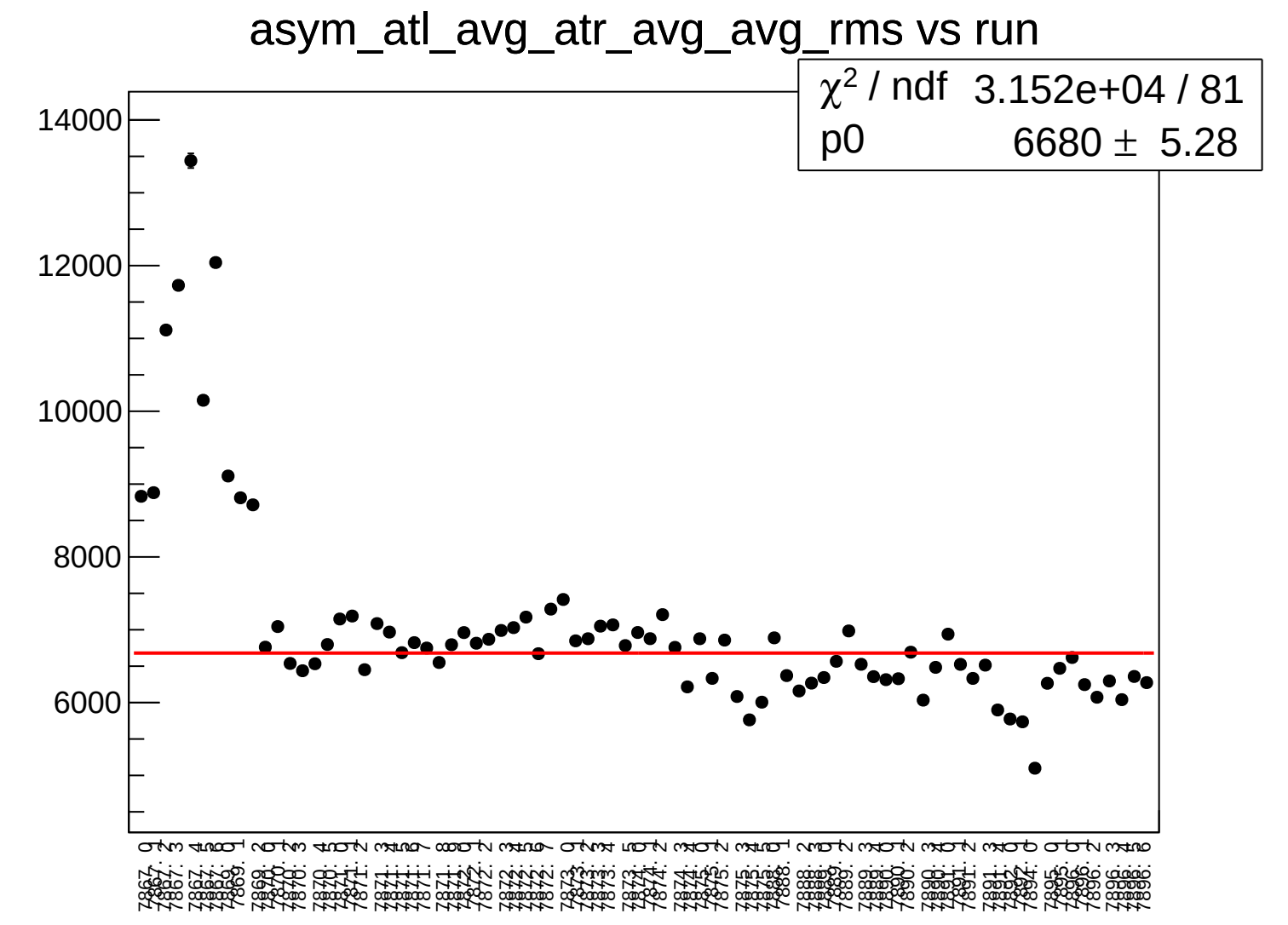

pull1D
Entries 82
Mean 0.01045
Std Dev 0.9405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

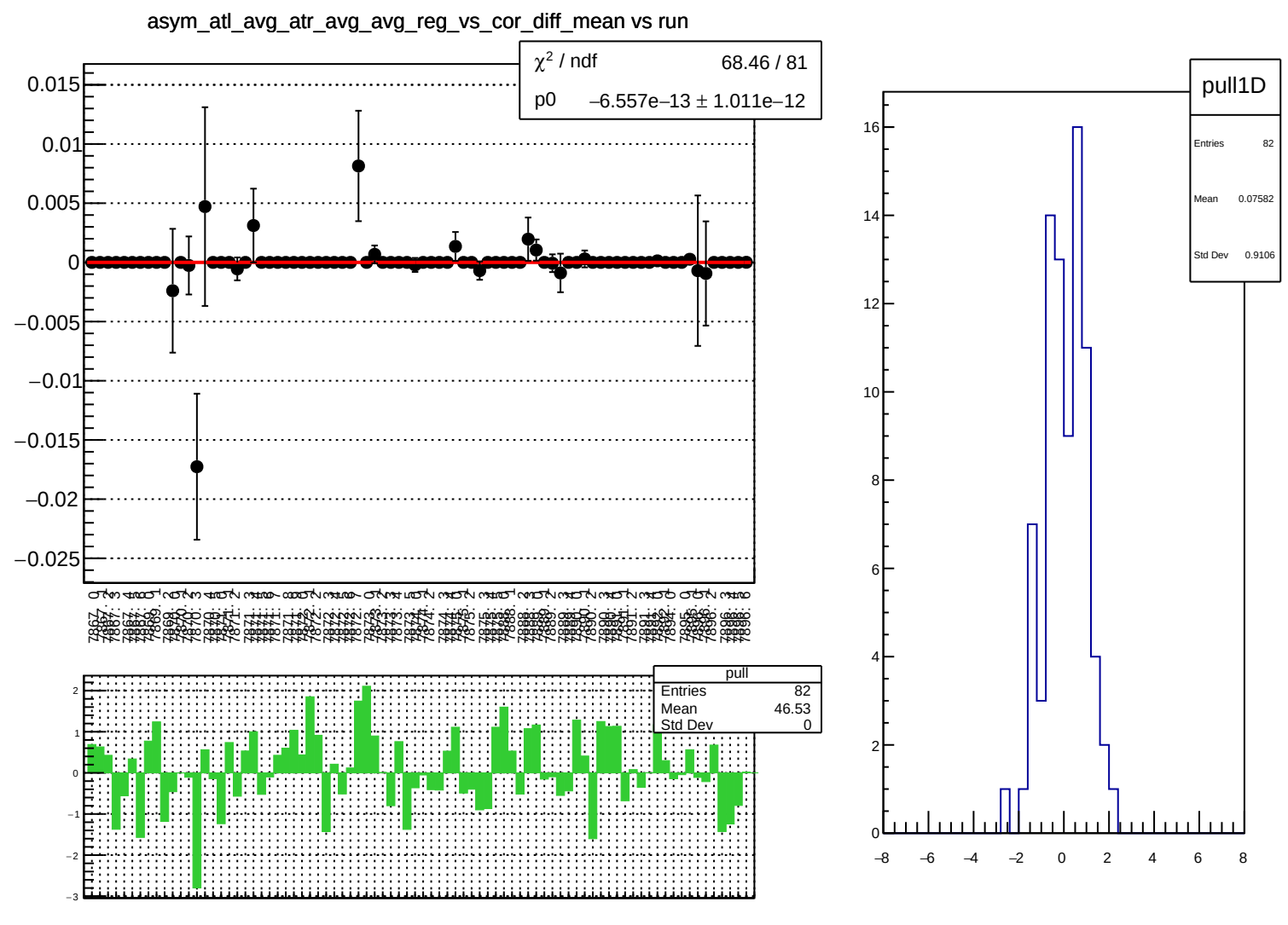

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6742 / 81
p0 1372 ± 1.076
1800
1700
1600
1500
1400
1300

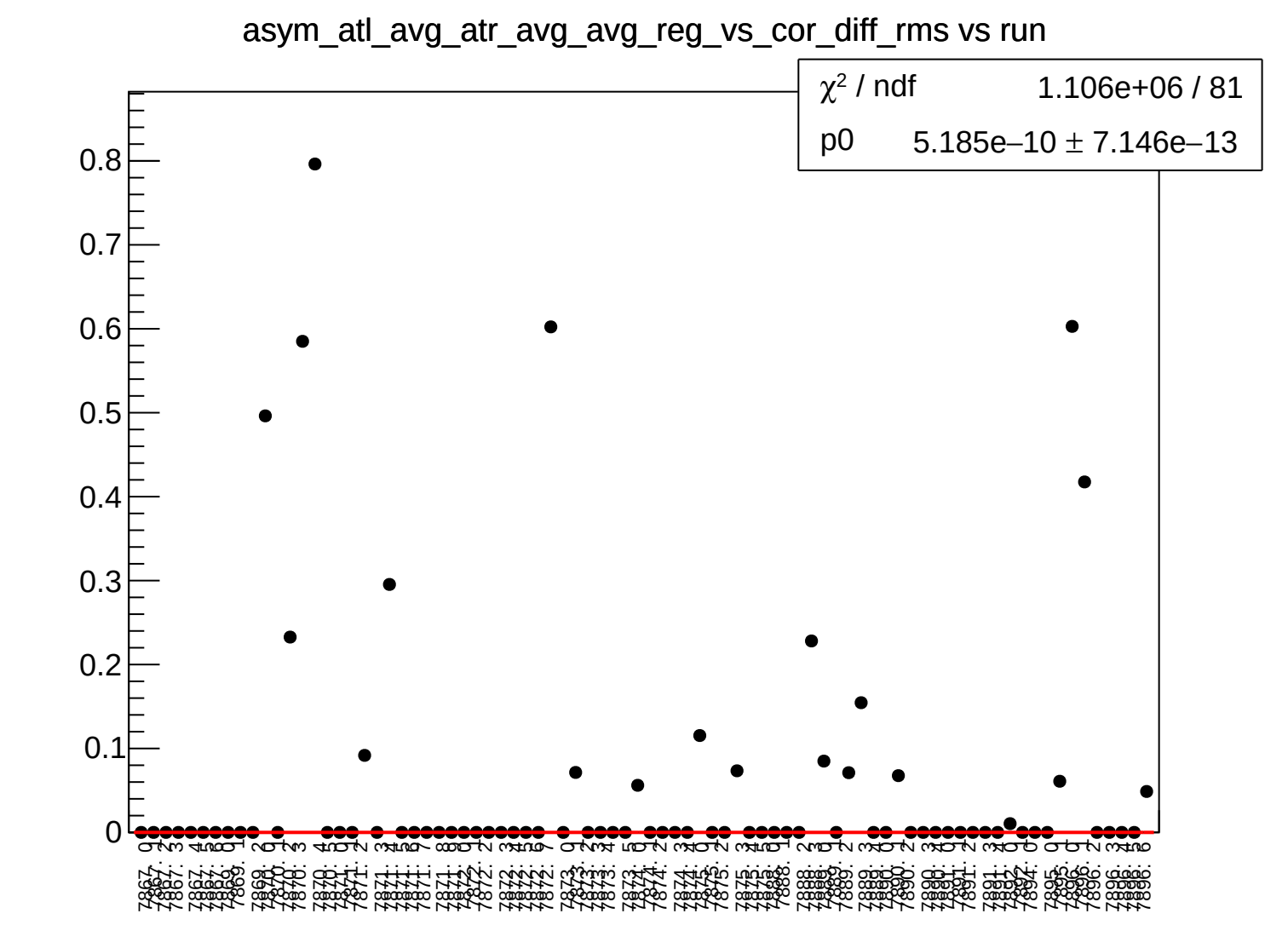

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.09 / 81
p0 3337 ± 7229
200
100
0
−100
−200
−300
pull
Entries 82
Mean −112.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.01744
Std Dev 0.8976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

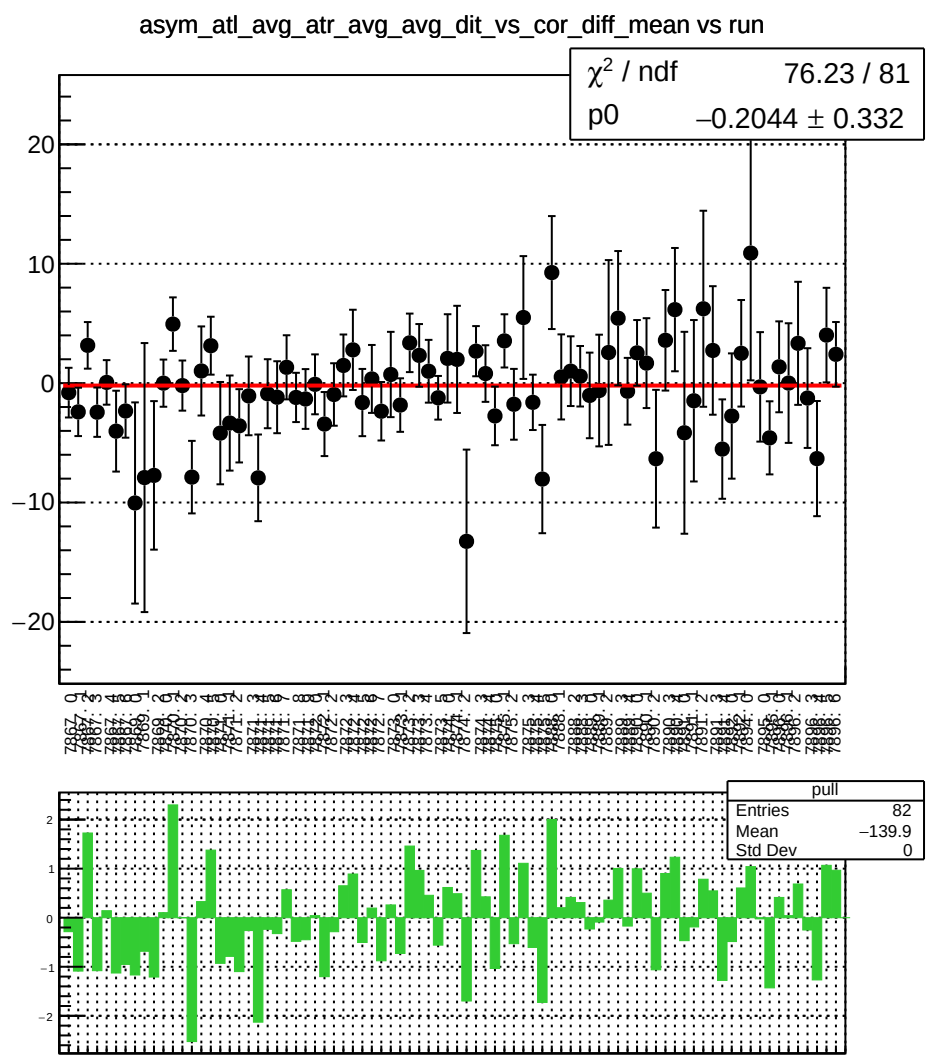

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.834e+04 / 81
p0 6474 ± 5.112
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

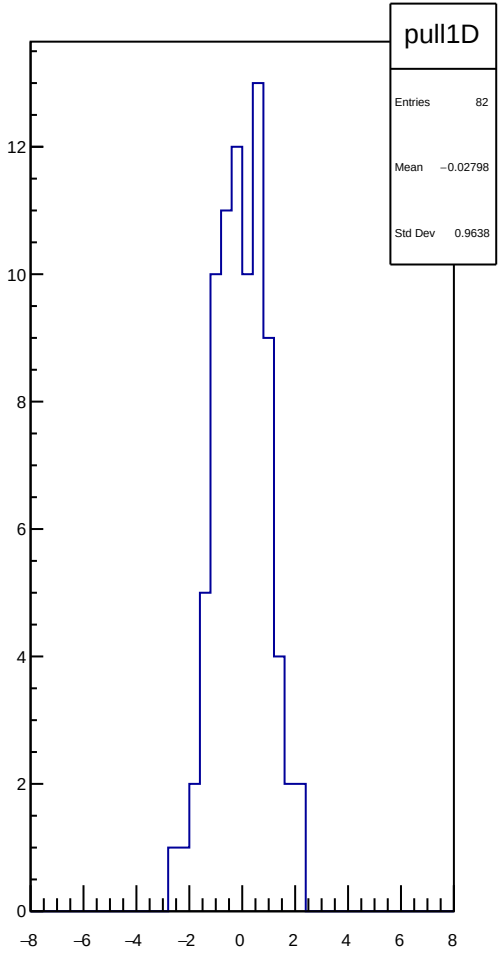

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 66.89 / 81
p0 −5653 ± 7467
×10³
pull
Entries 82
Mean −129.2
Std Dev 0
pull1D
Entries 82
Mean −0.01789
Std Dev 0.903

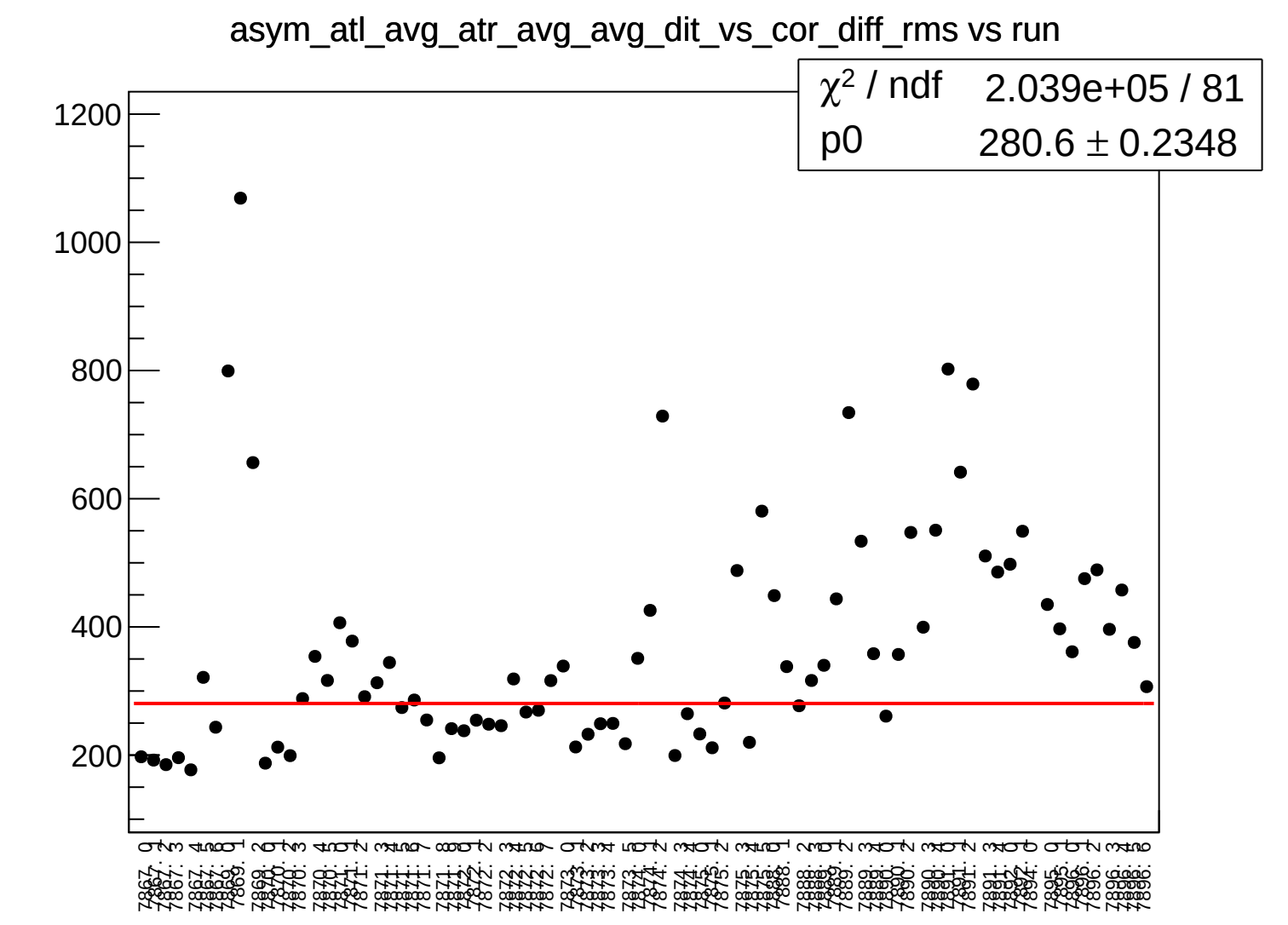

asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 3.152e+04 / 81
p0 6680 ± 5.28
14000
12000
10000
8000
6000

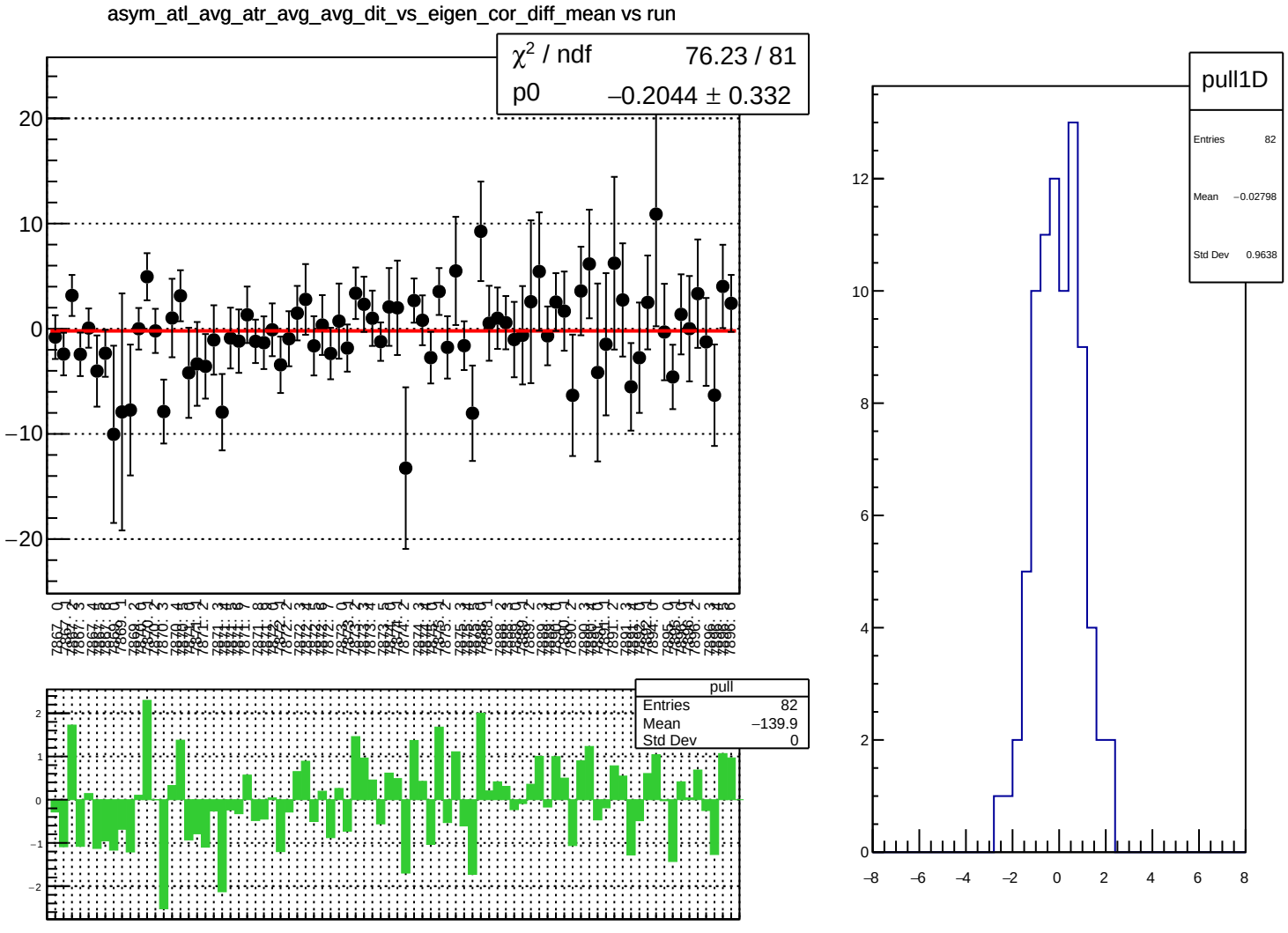

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.46 / 81
p0 −6.557e−13 ± 1.011e−12
pull
Entries 82
Mean 46.53
Std Dev 0
pull1D
Entries 82
Mean 0.07582
Std Dev 0.9106

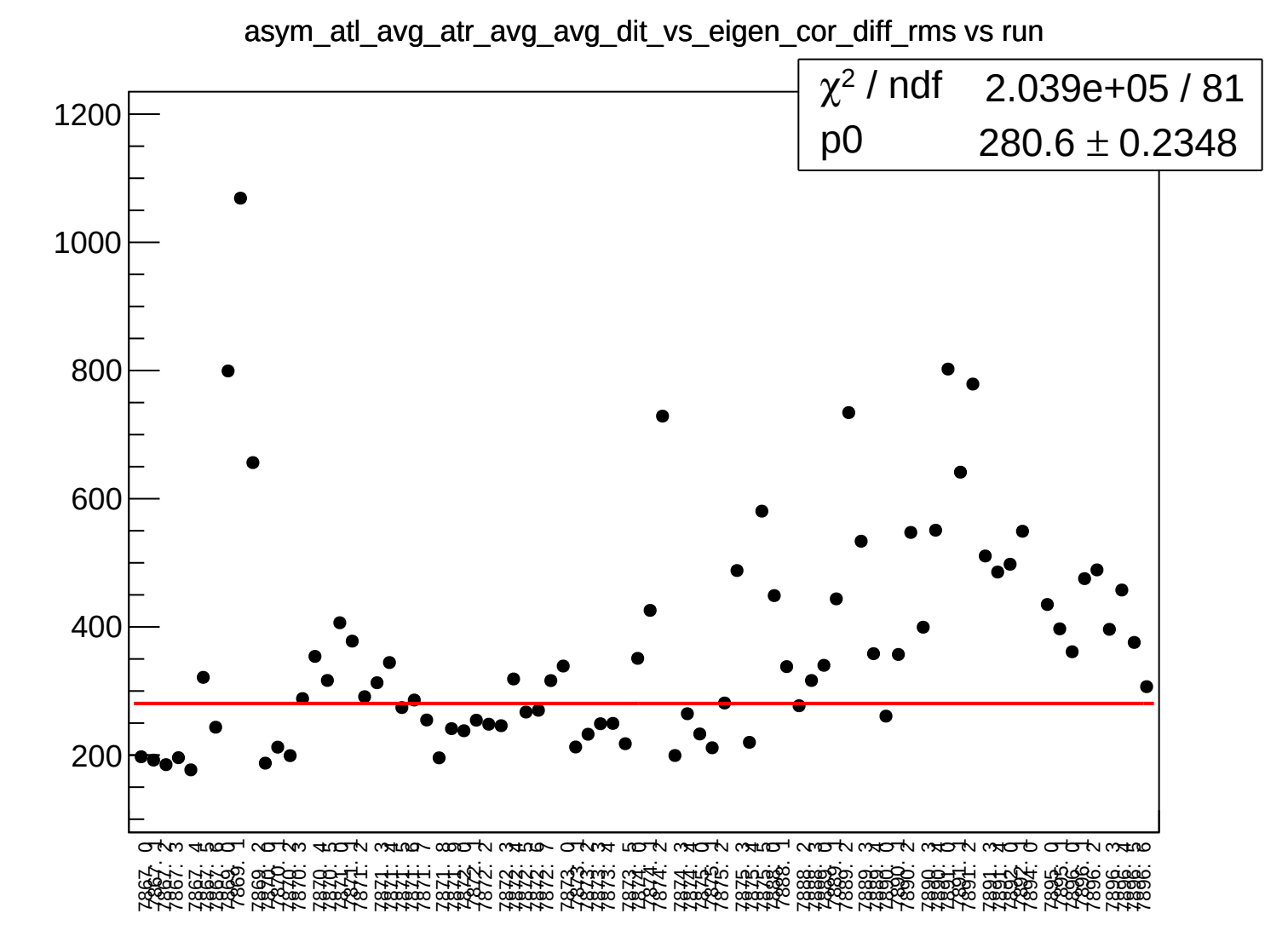

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 81
p0 5.185e−10 ± 7.146e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

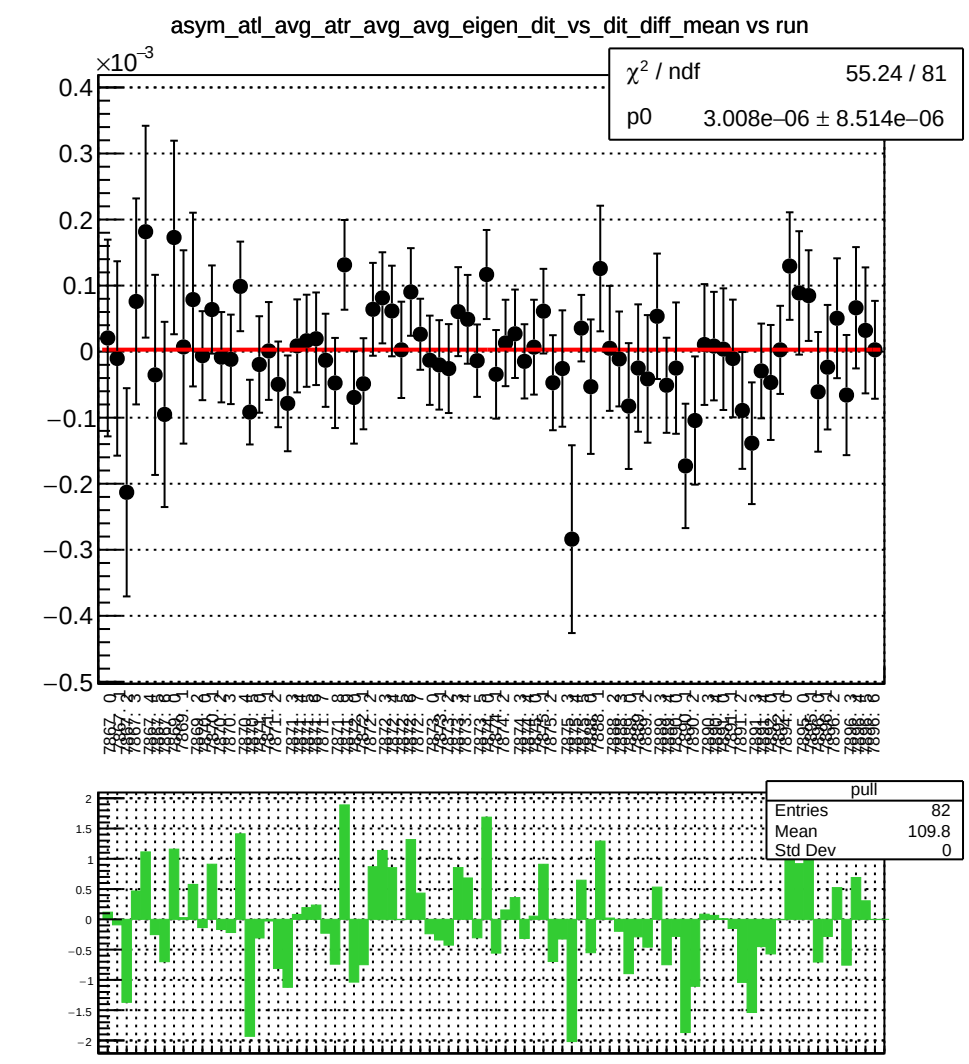

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.23 / 81
p0 −0.2044 ± 0.332
pull
Entries 82
Mean −139.9
Std Dev 0

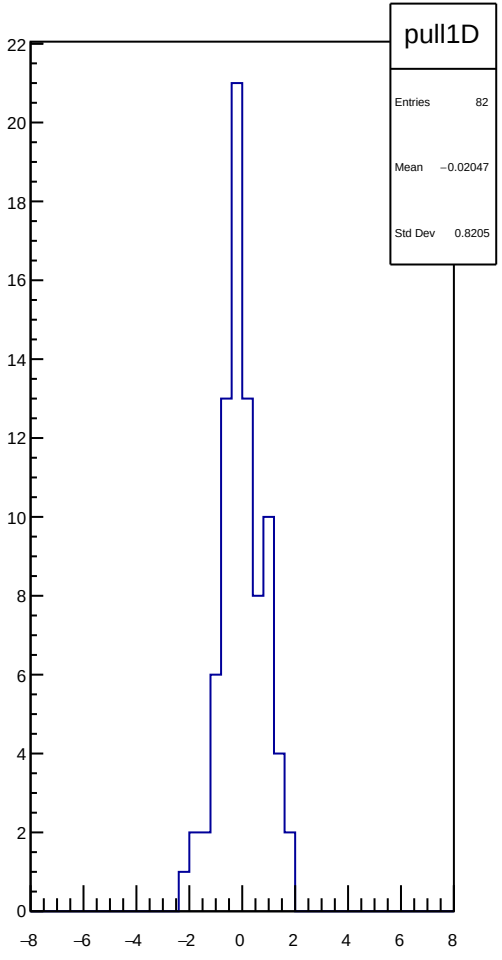

pull1D
Entries 82
Mean −0.02798
Std Dev 0.9638

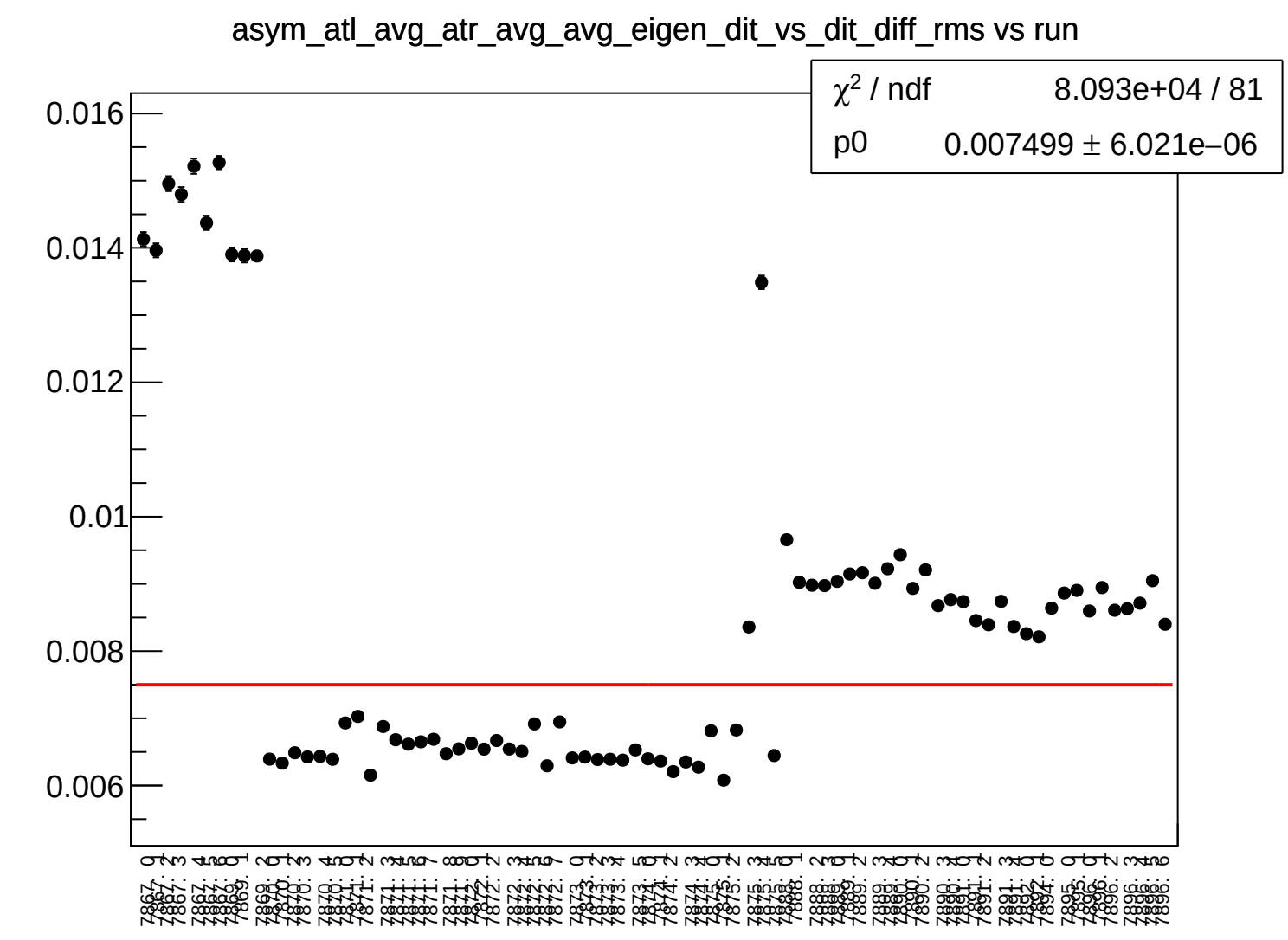

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.039e+05 / 81
p0 280.6 ± 0.2348
1200
1000
800
600
400
200

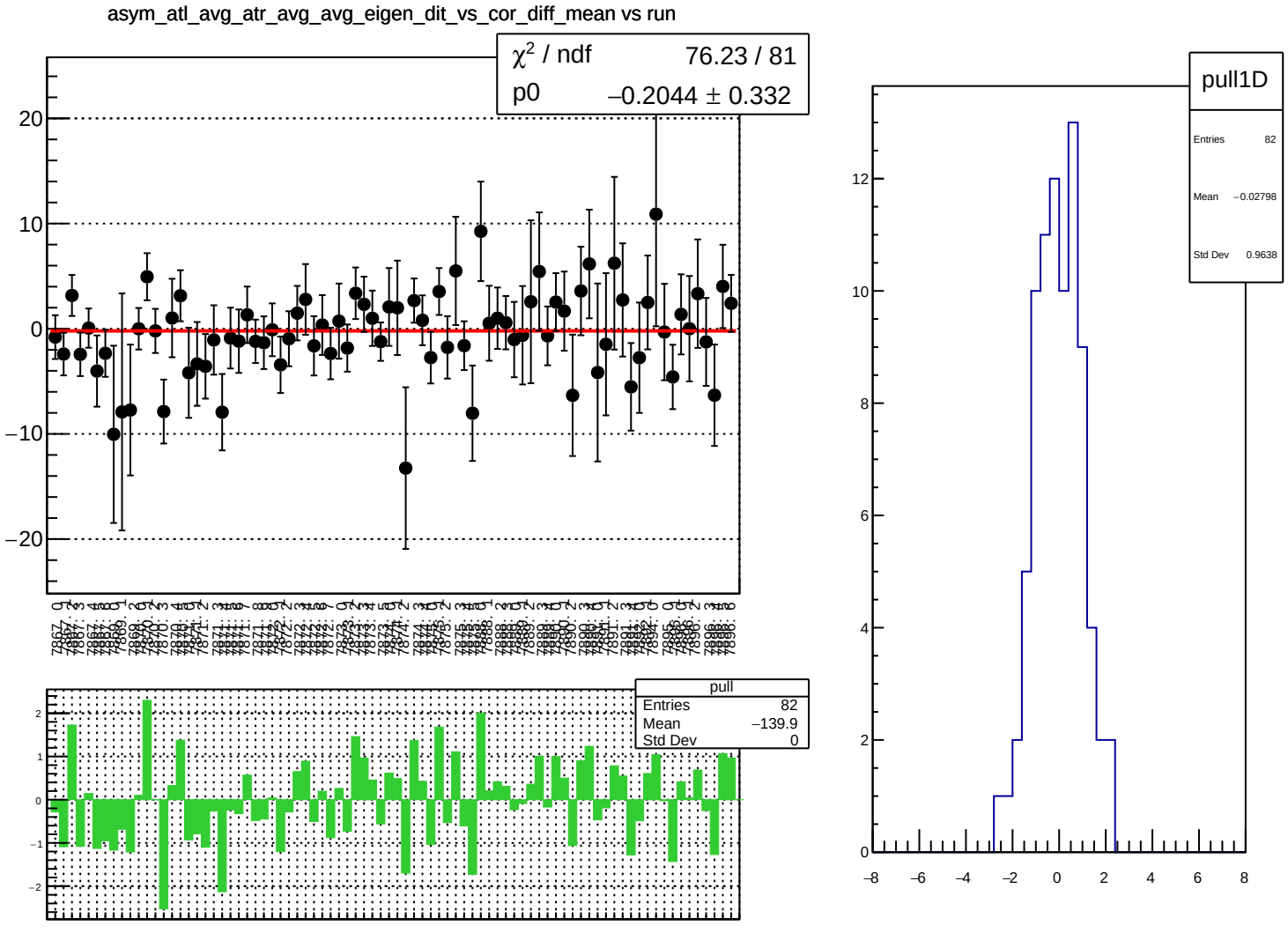

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.23 / 81
p0 −0.2044 ± 0.332
pull
Entries 82
Mean −139.9
Std Dev 0
pull1D
Entries 82
Mean −0.02798
Std Dev 0.9638

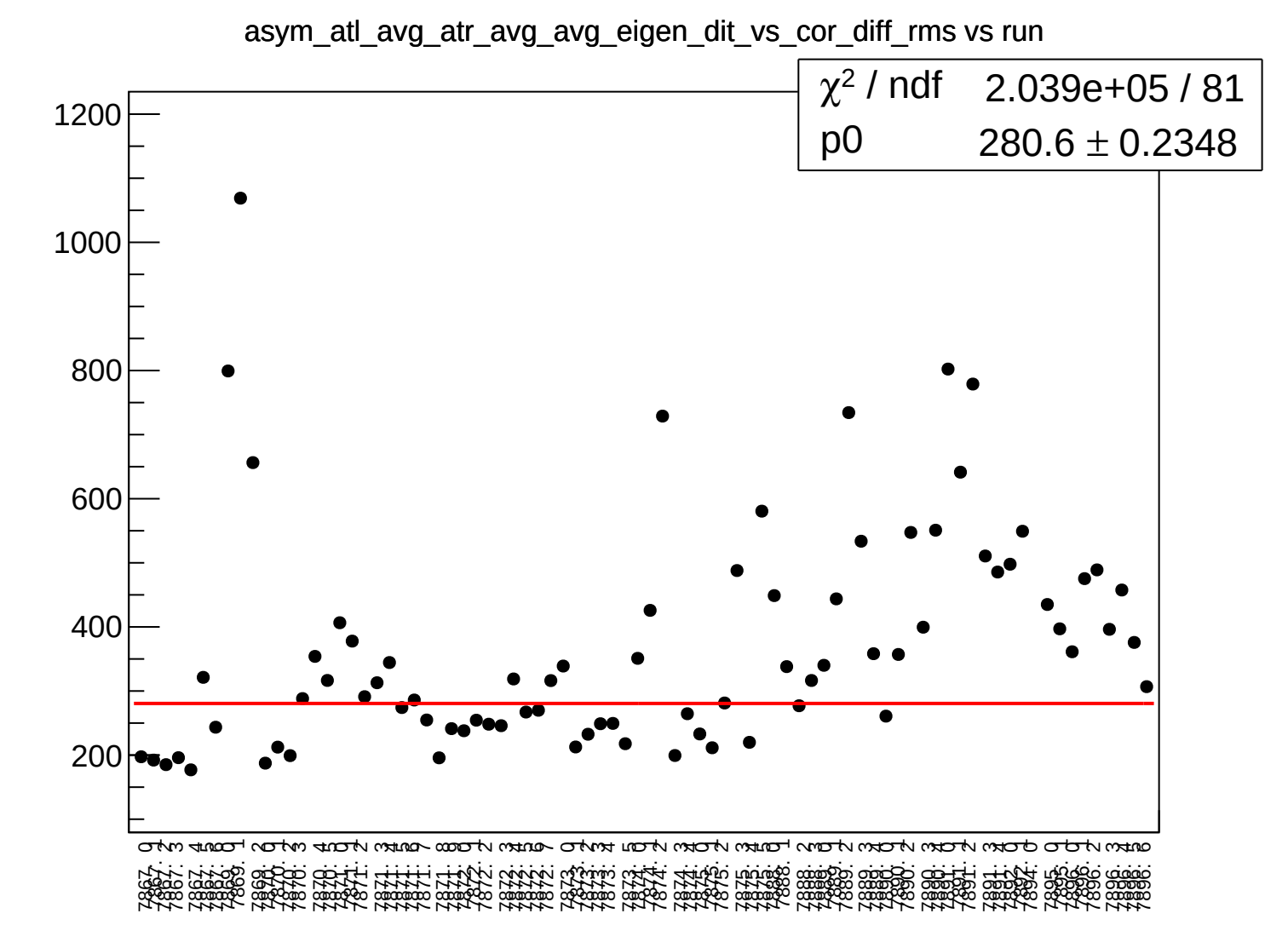

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.039e+05 / 81
p0 280.6 ± 0.2348
1200
1000
800
600
400
200

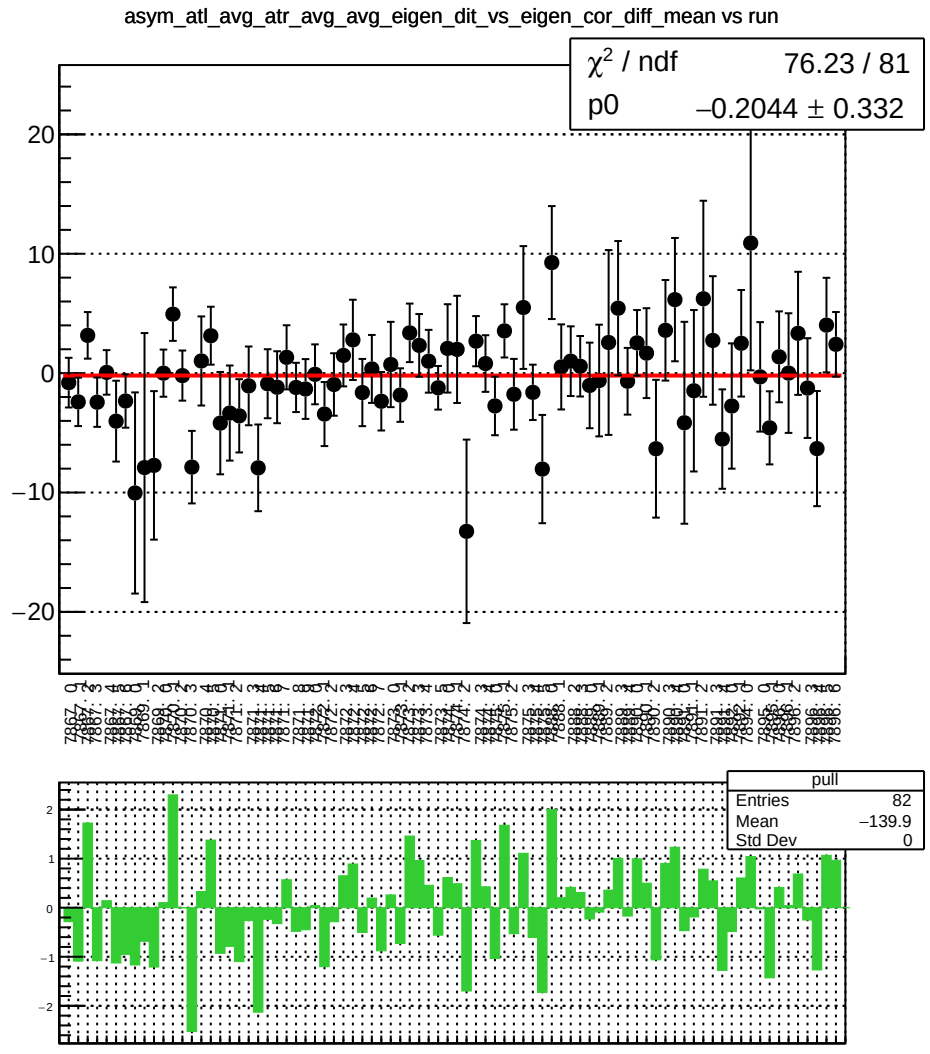

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.24 / 81
p0 3.008e−06 ± 8.514e−06
pull
Entries 82
Mean 109.8
Std Dev 0

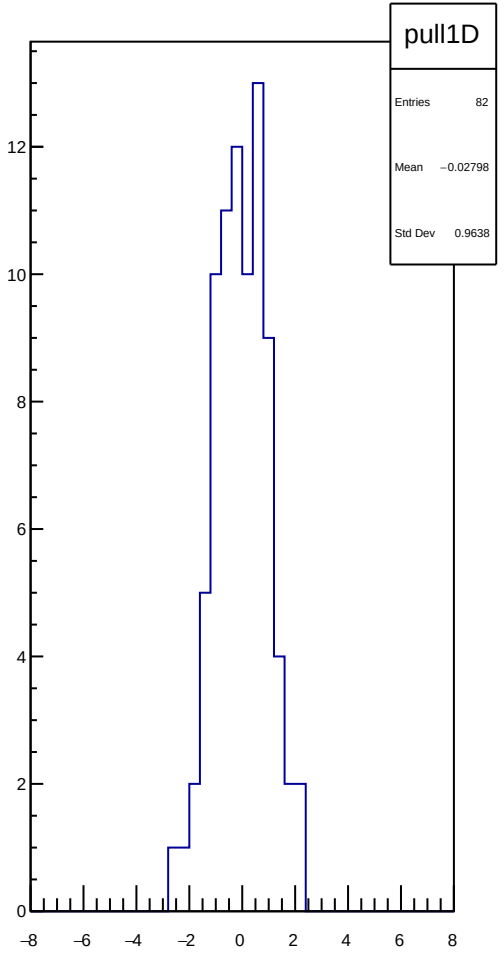

pull1D
Entries 82
Mean −0.02047
Std Dev 0.8205

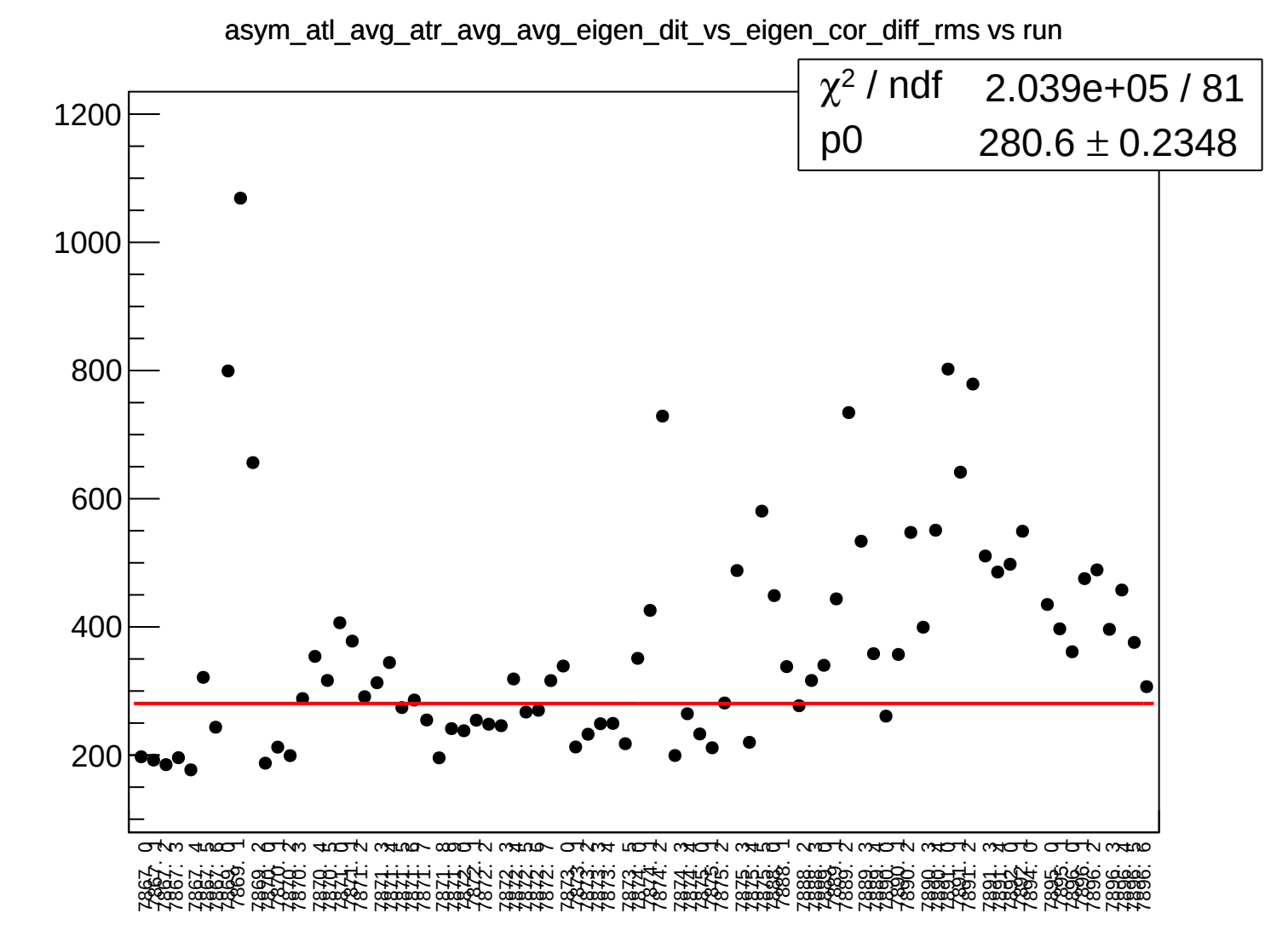

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.093e+04 / 81
p0 0.007499 ± 6.021e−06
0.016
0.014
0.012
0.01
0.008
0.006

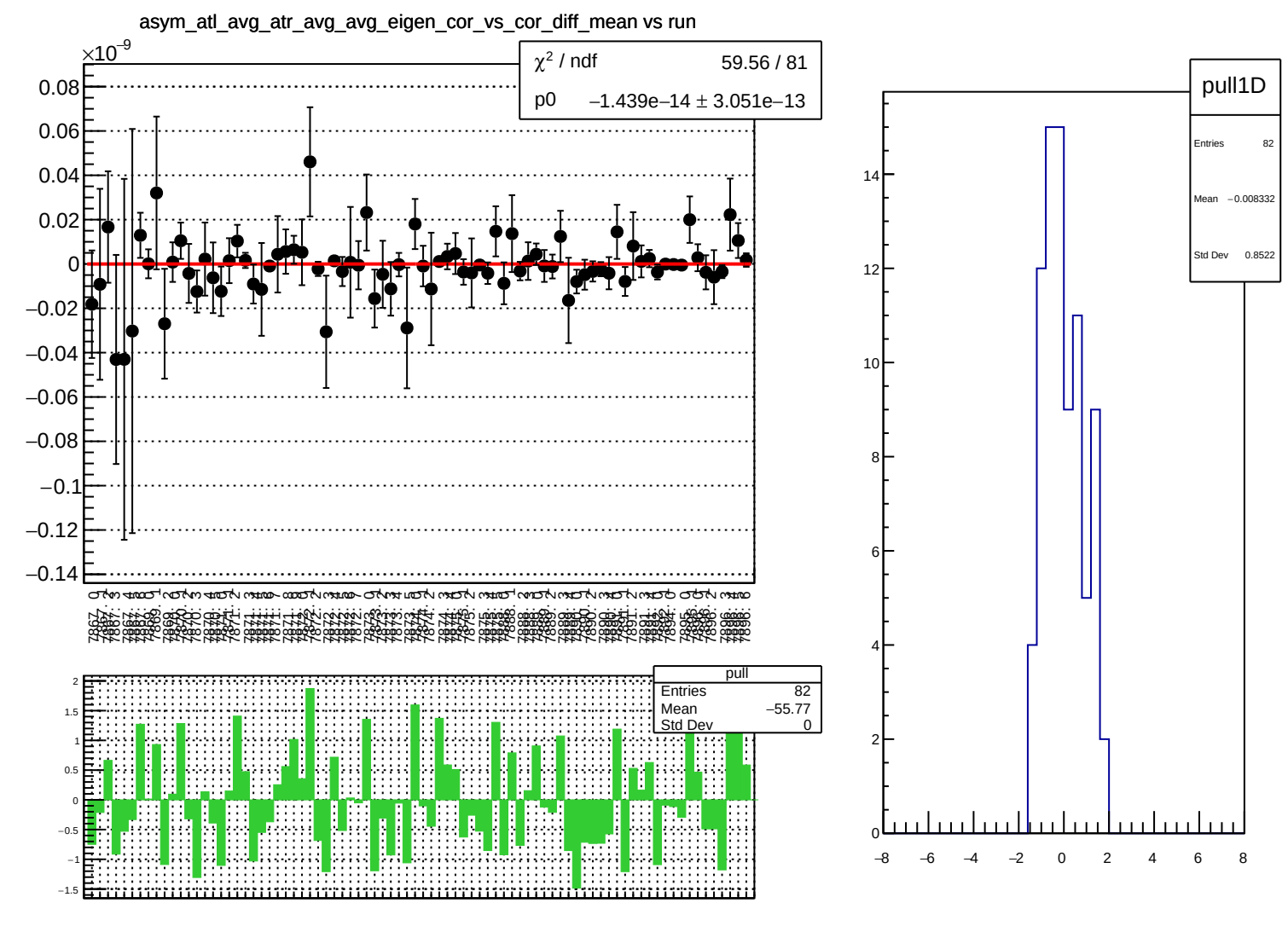

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.23 / 81
p0 −0.2044 ± 0.332
pull
Entries 82
Mean −139.9
Std Dev 0
pull1D
Entries 82
Mean −0.02798
Std Dev 0.9638

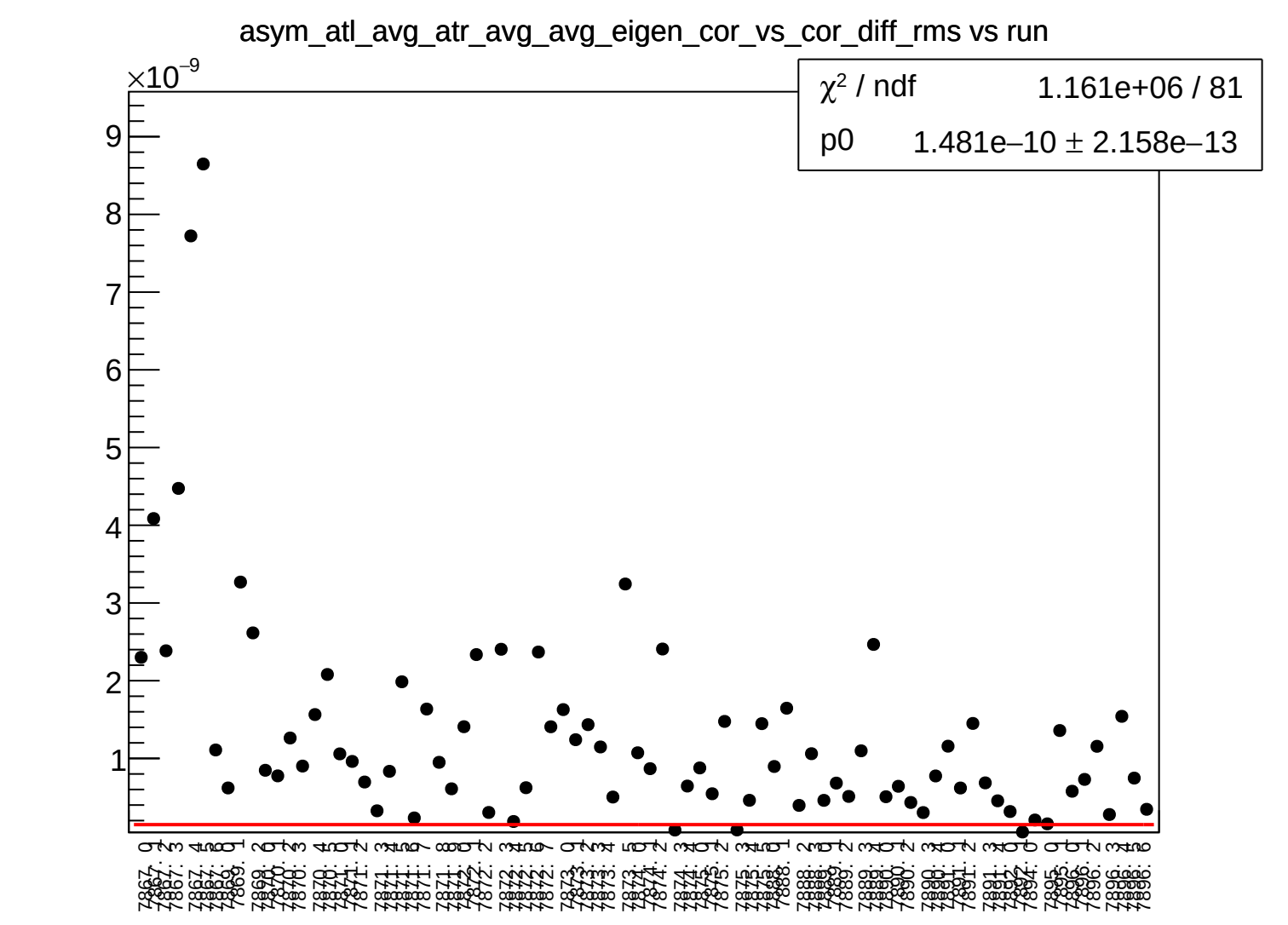

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.039e+05 / 81
p0 280.6 ± 0.2348
1200
1000
800
600
400
200

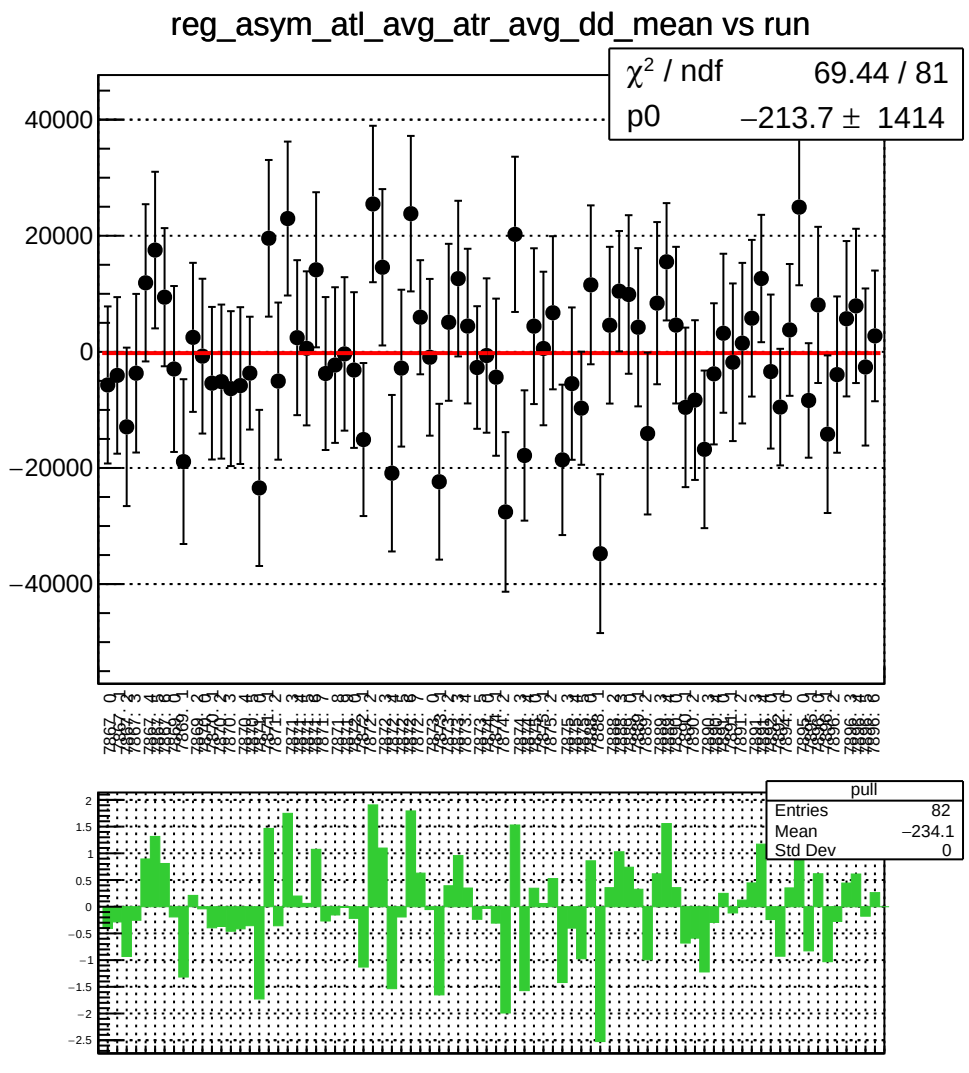

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.23 / 81
p0 −0.2044 ± 0.332
pull
Entries 82
Mean −139.9
Std Dev 0

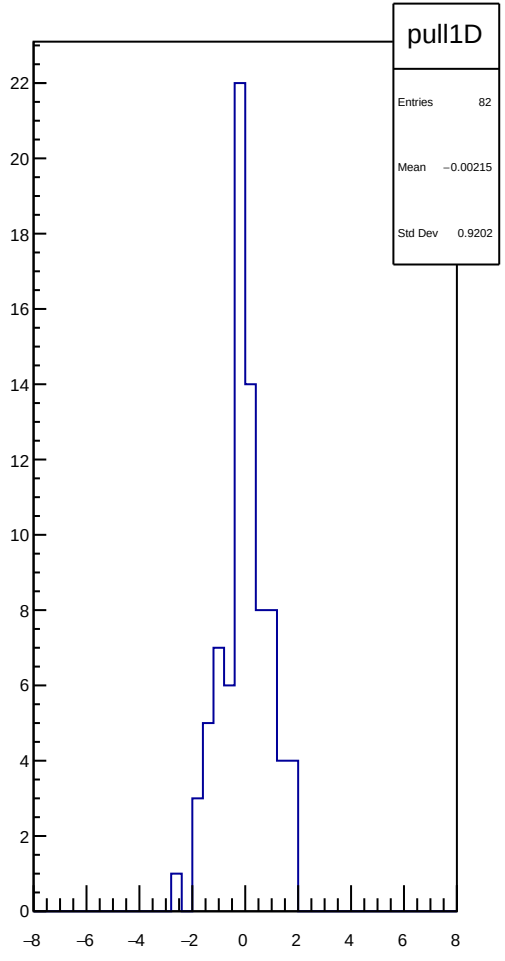

pull1D
Entries 82
Mean −0.02798
Std Dev 0.9638

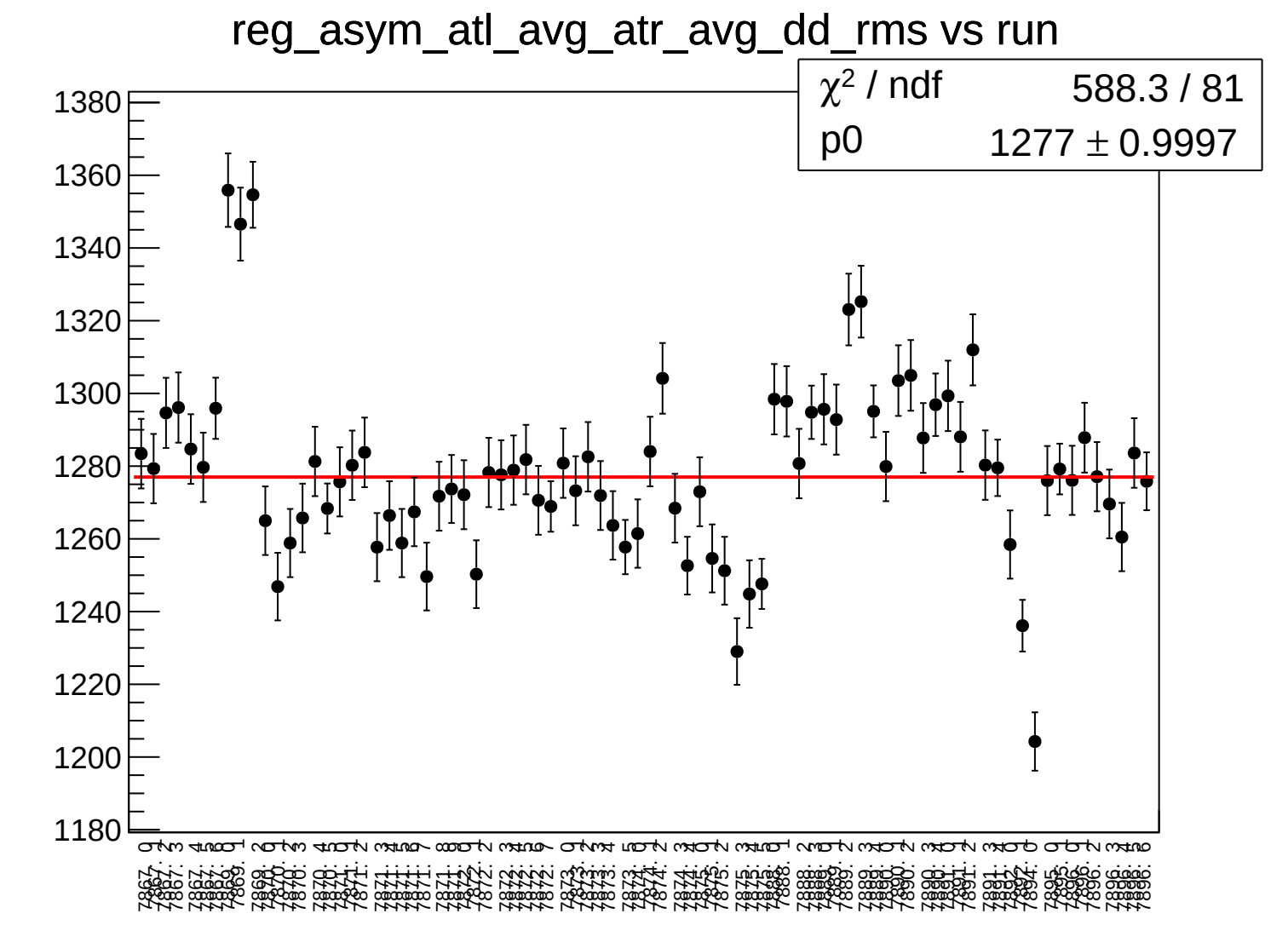

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.039e+05 / 81
p0 280.6 ± 0.2348
1200
1000
800
600
400
200

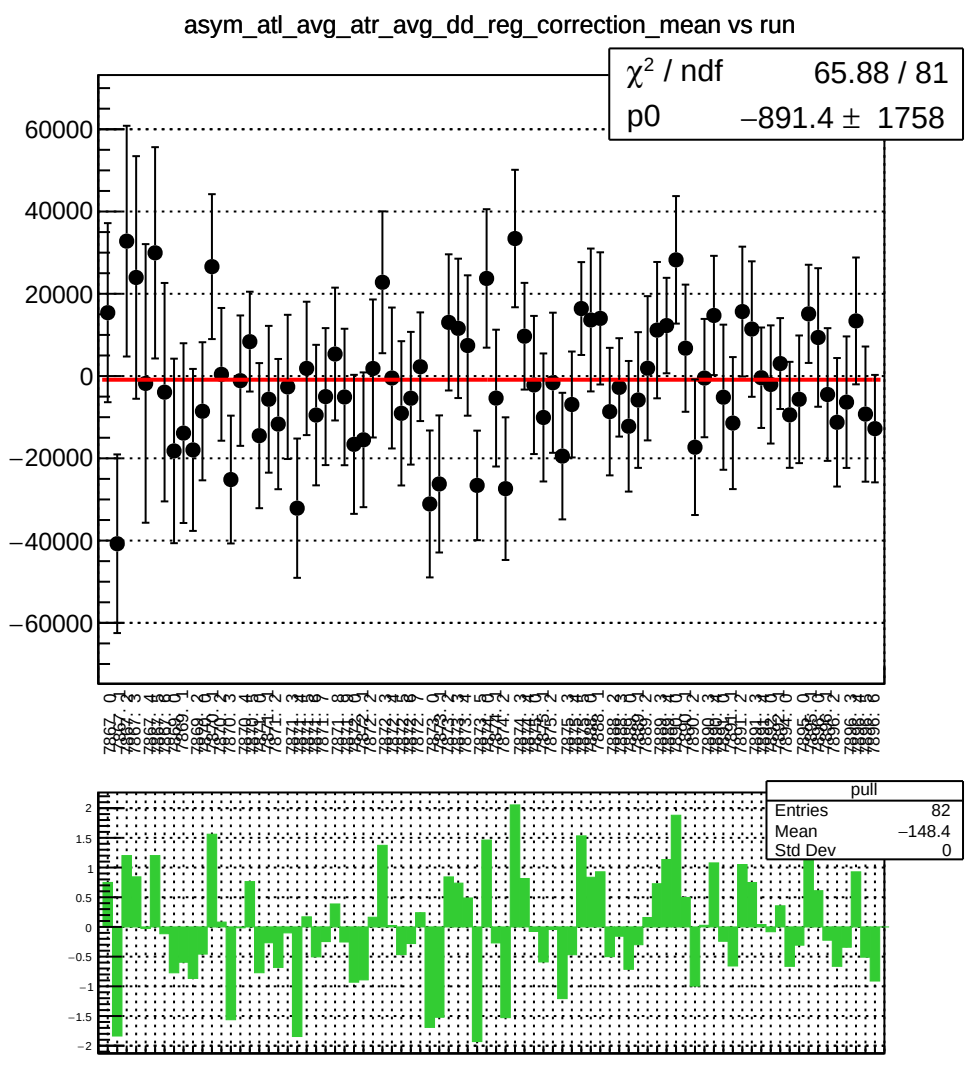

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 59.56 / 81
p0 −1.439e−14 ± 3.051e−13
pull
Entries 82
Mean −55.77
Std Dev 0
pull1D
Entries 82
Mean −0.008332
Std Dev 0.8522

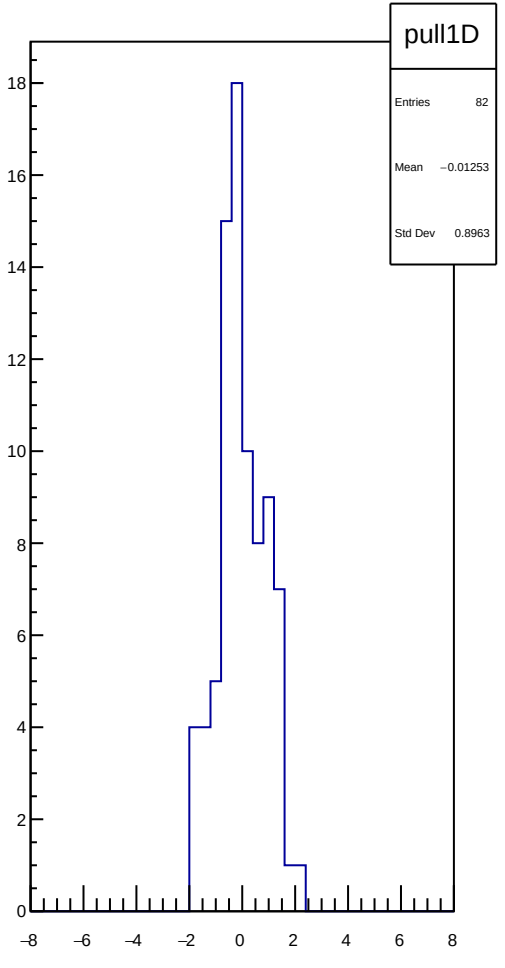

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.161e+06 / 81
p0 1.481e−10 ± 2.158e−13

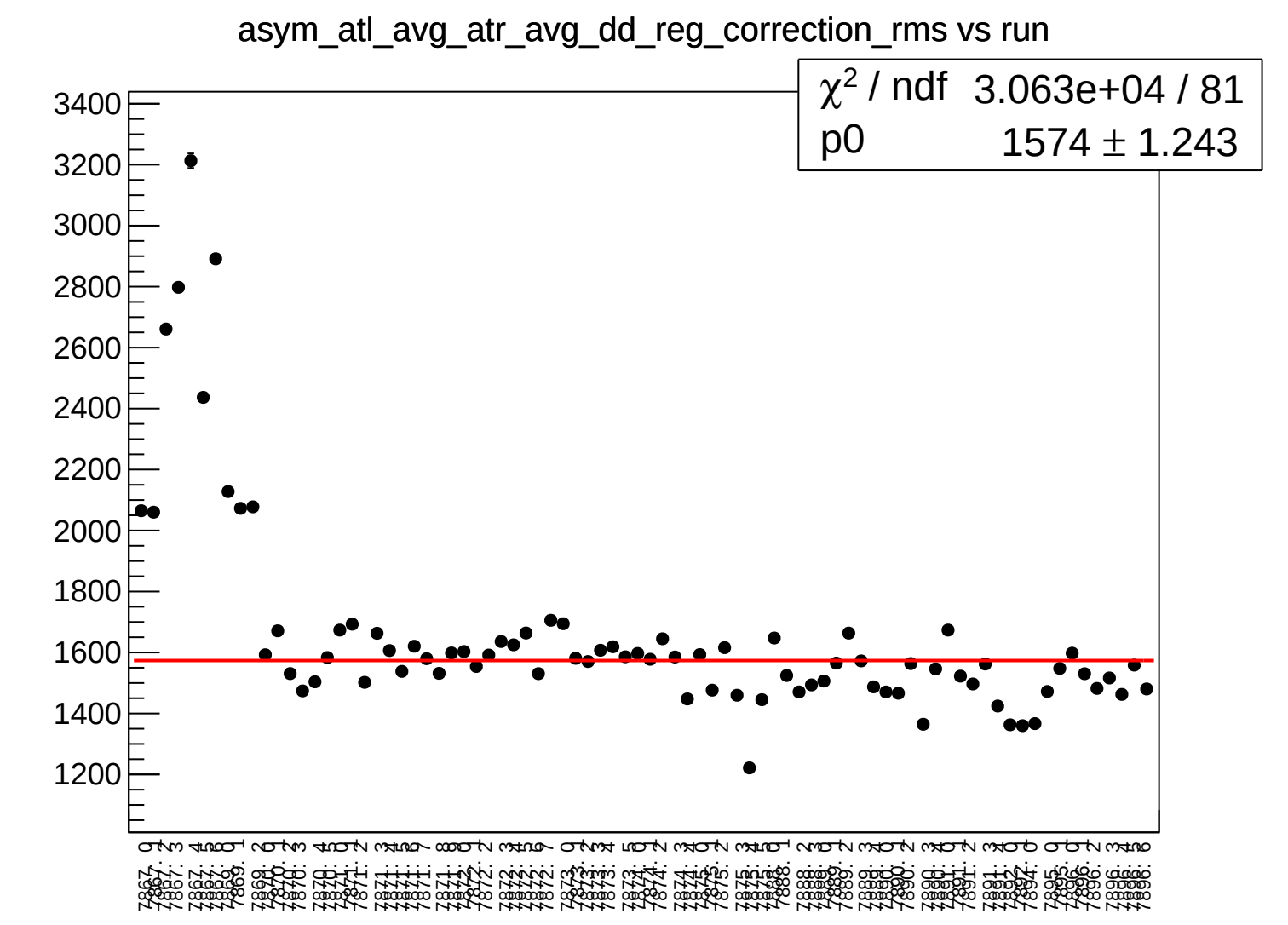

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.44 / 81
p0 −213.7 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −234.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

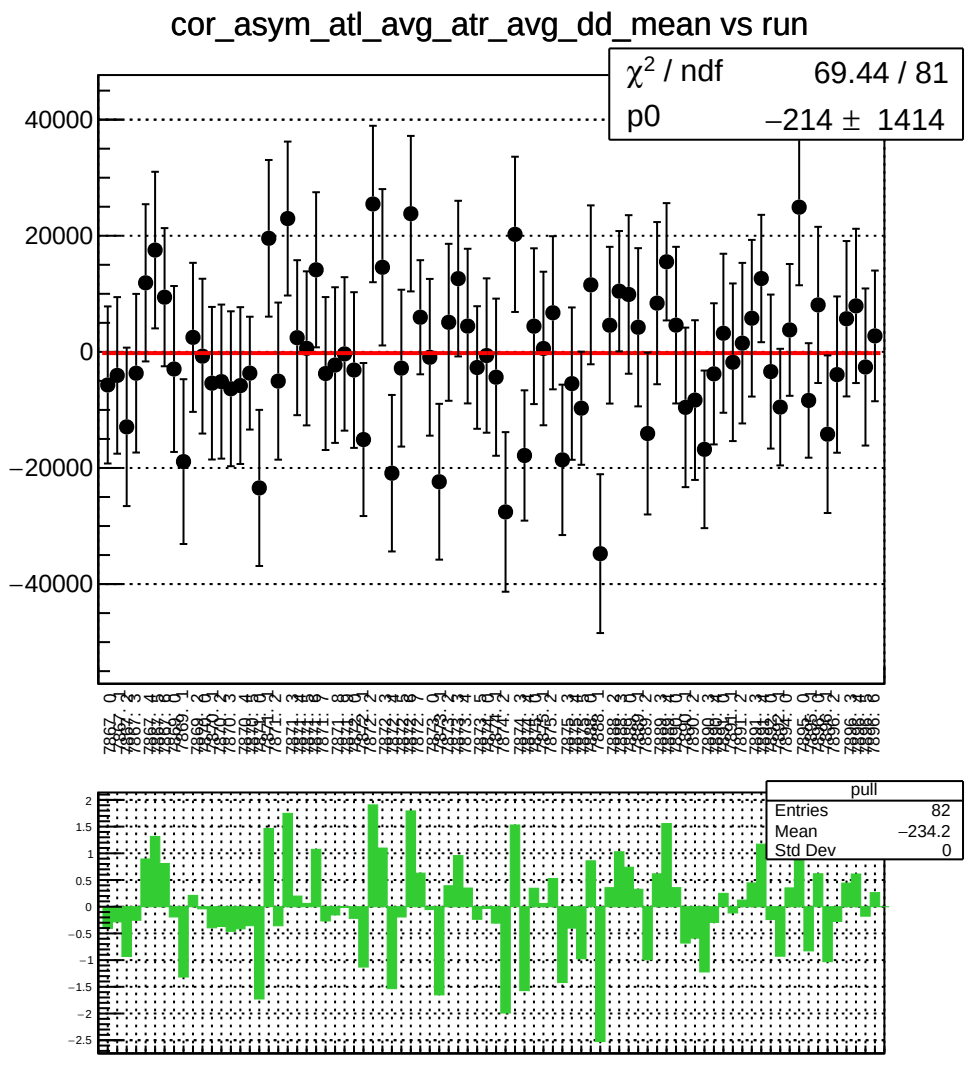

pull1D
Entries 82
Mean −0.00215
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

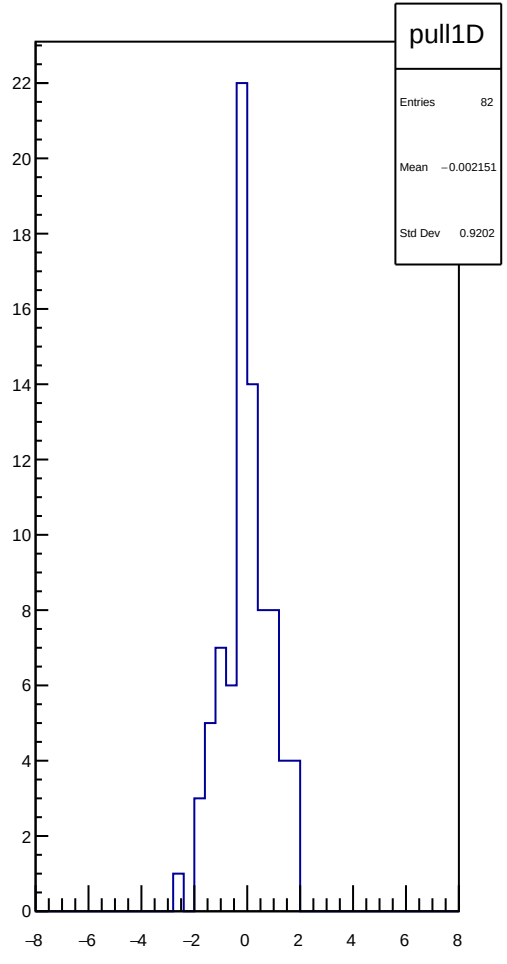

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 588.3 / 81
p0 1277 ± 0.9997
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

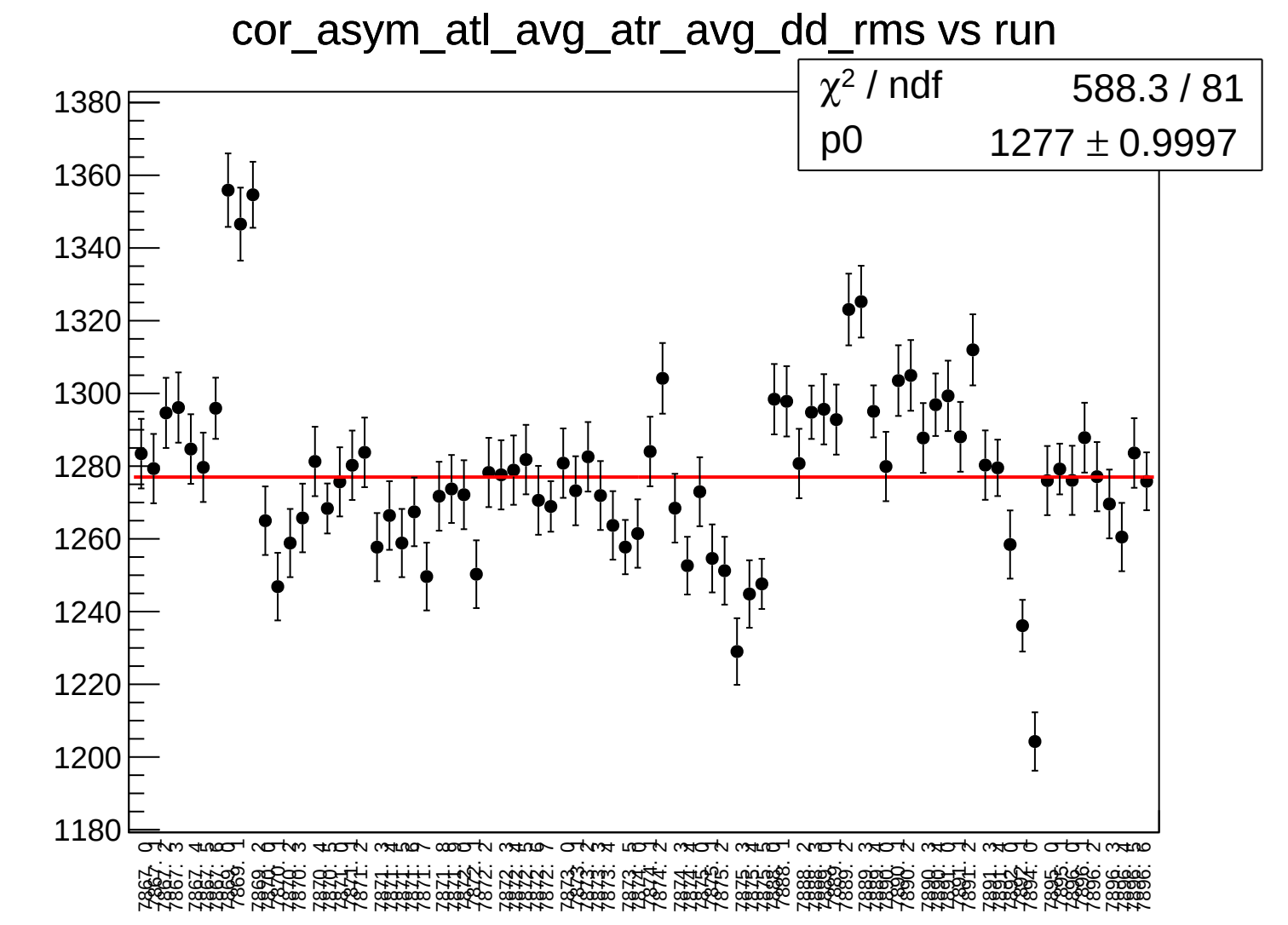

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 65.88 / 81
p0 −891.4 ± 1758
pull
Entries 82
Mean −148.4
Std Dev 0

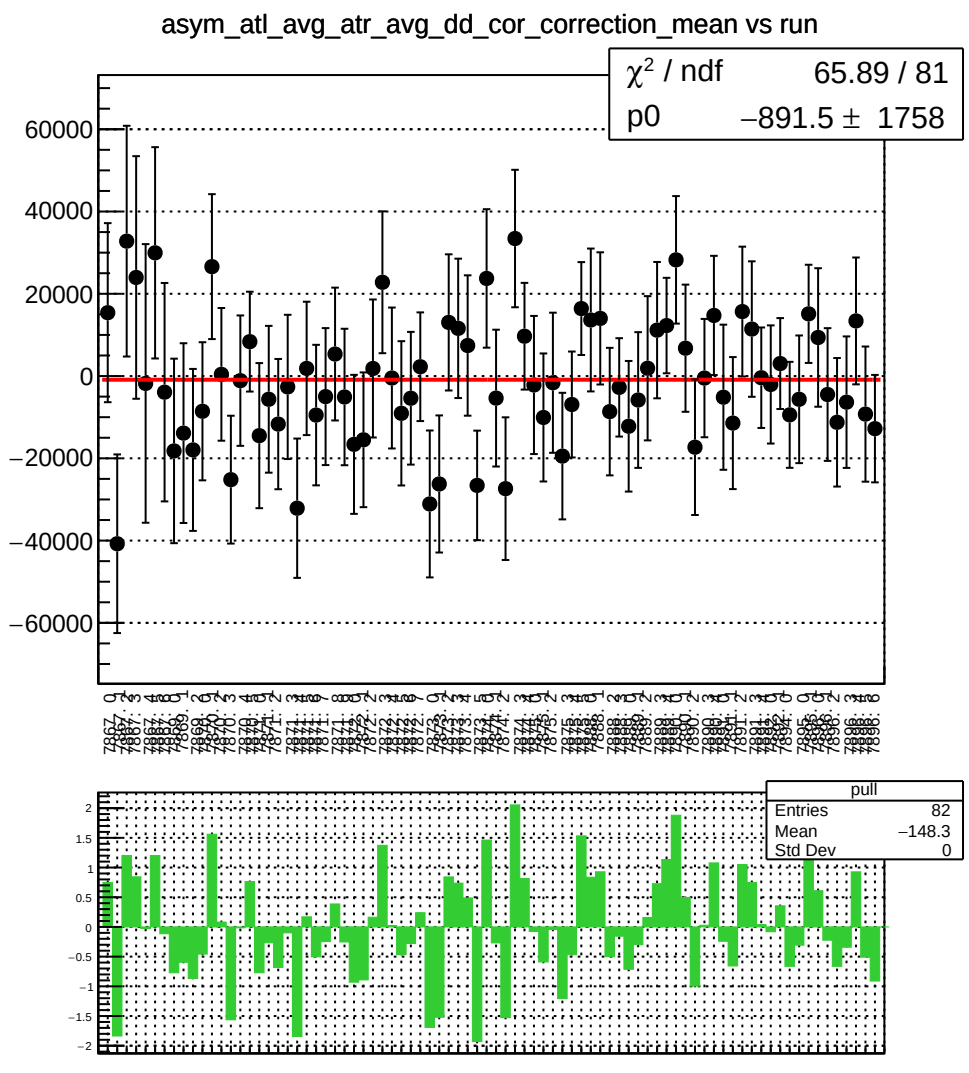

pull1D
Entries 82
Mean −0.01253
Std Dev 0.8963

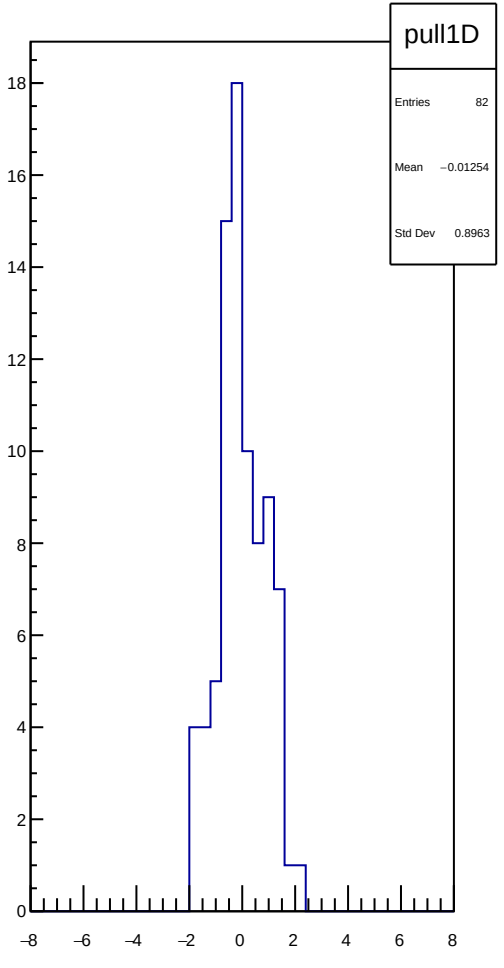

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.063e+04 / 81
p0 1574 ± 1.243
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

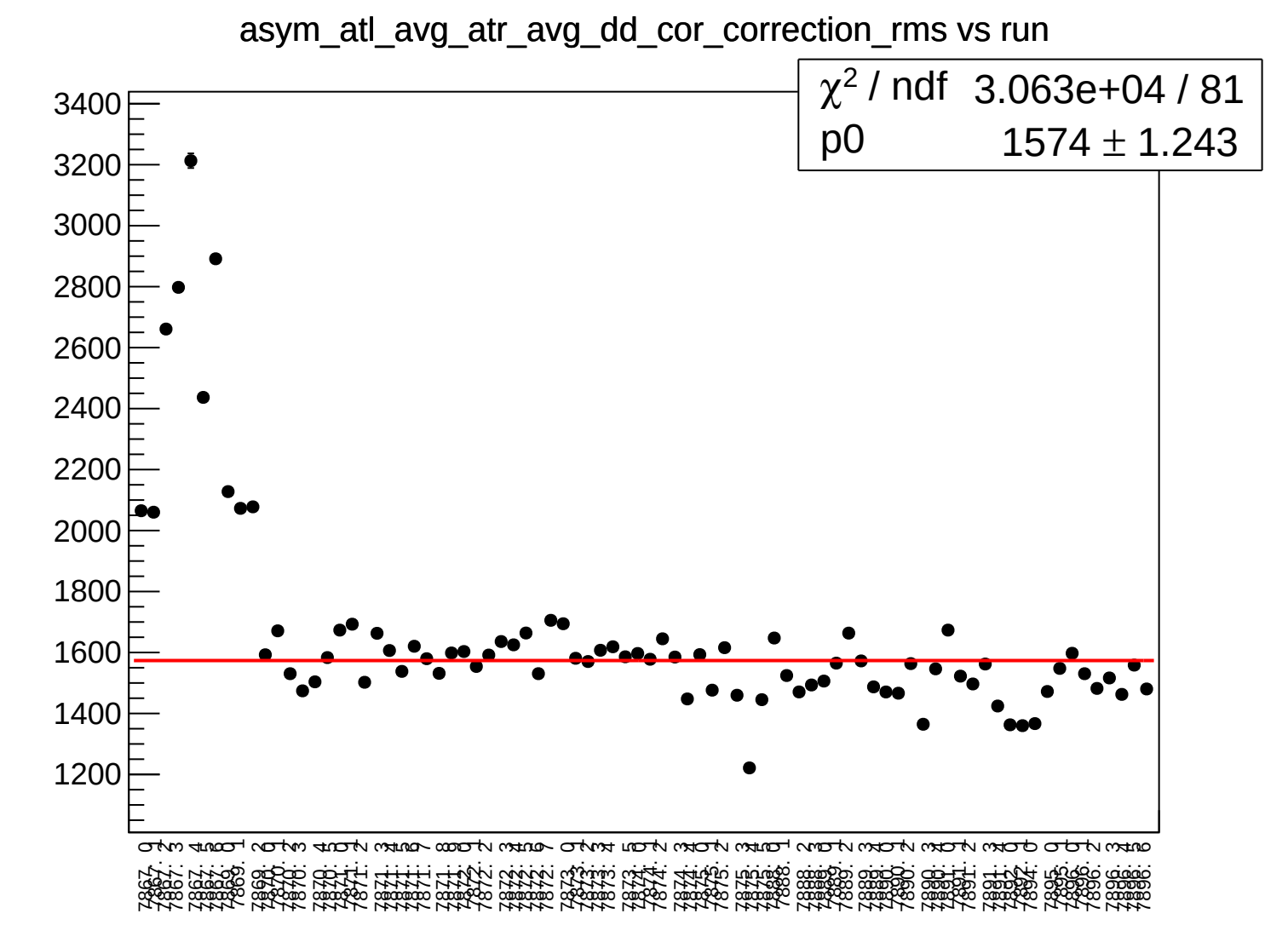

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.44 / 81
p0 −214 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −234.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

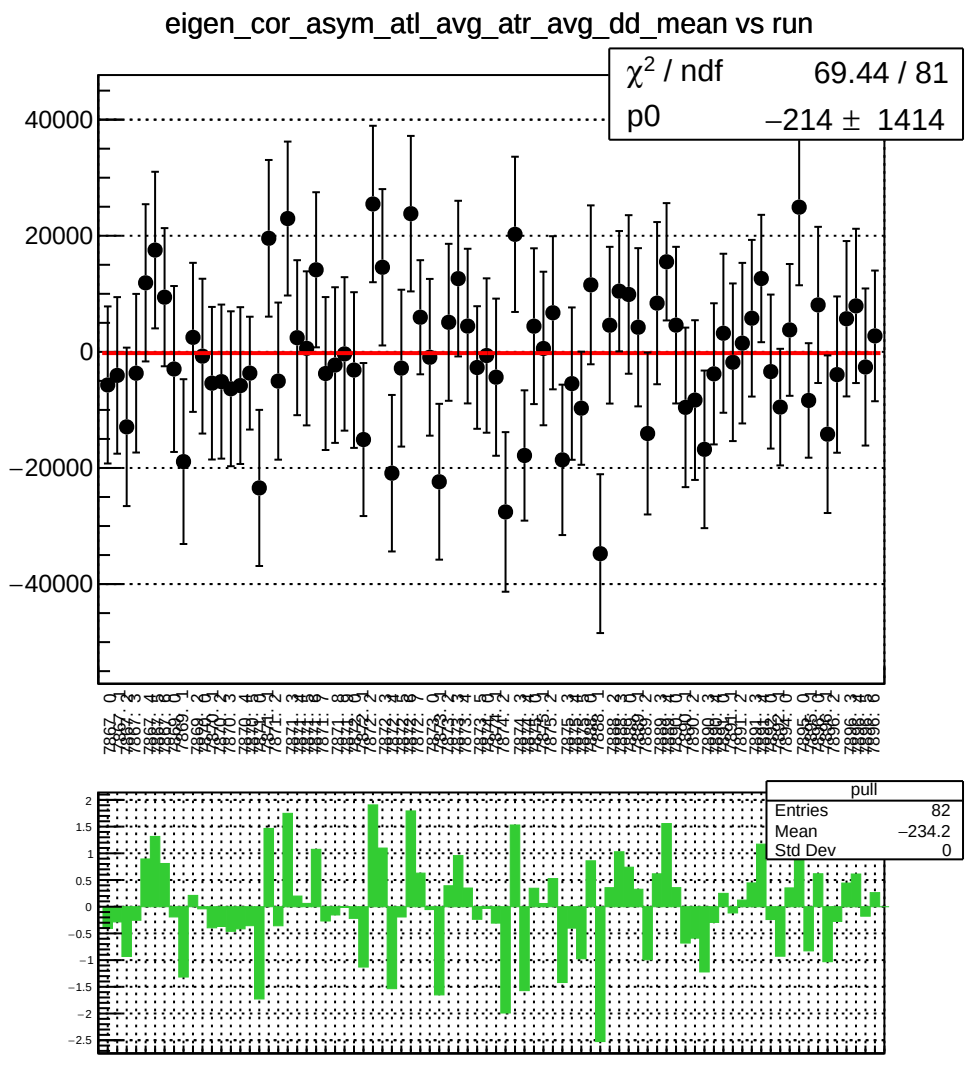

pull1D
Entries 82
Mean −0.002151
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

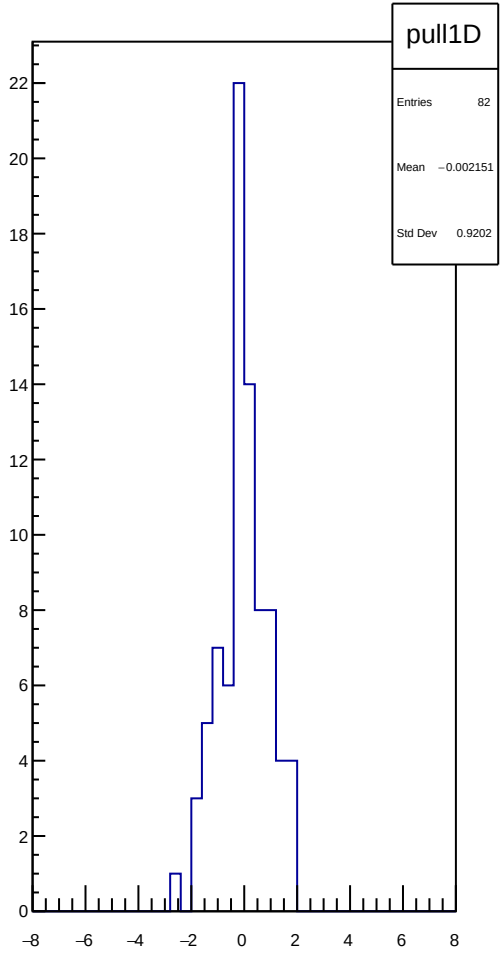

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 588.3 / 81
p0 1277 ± 0.9997
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

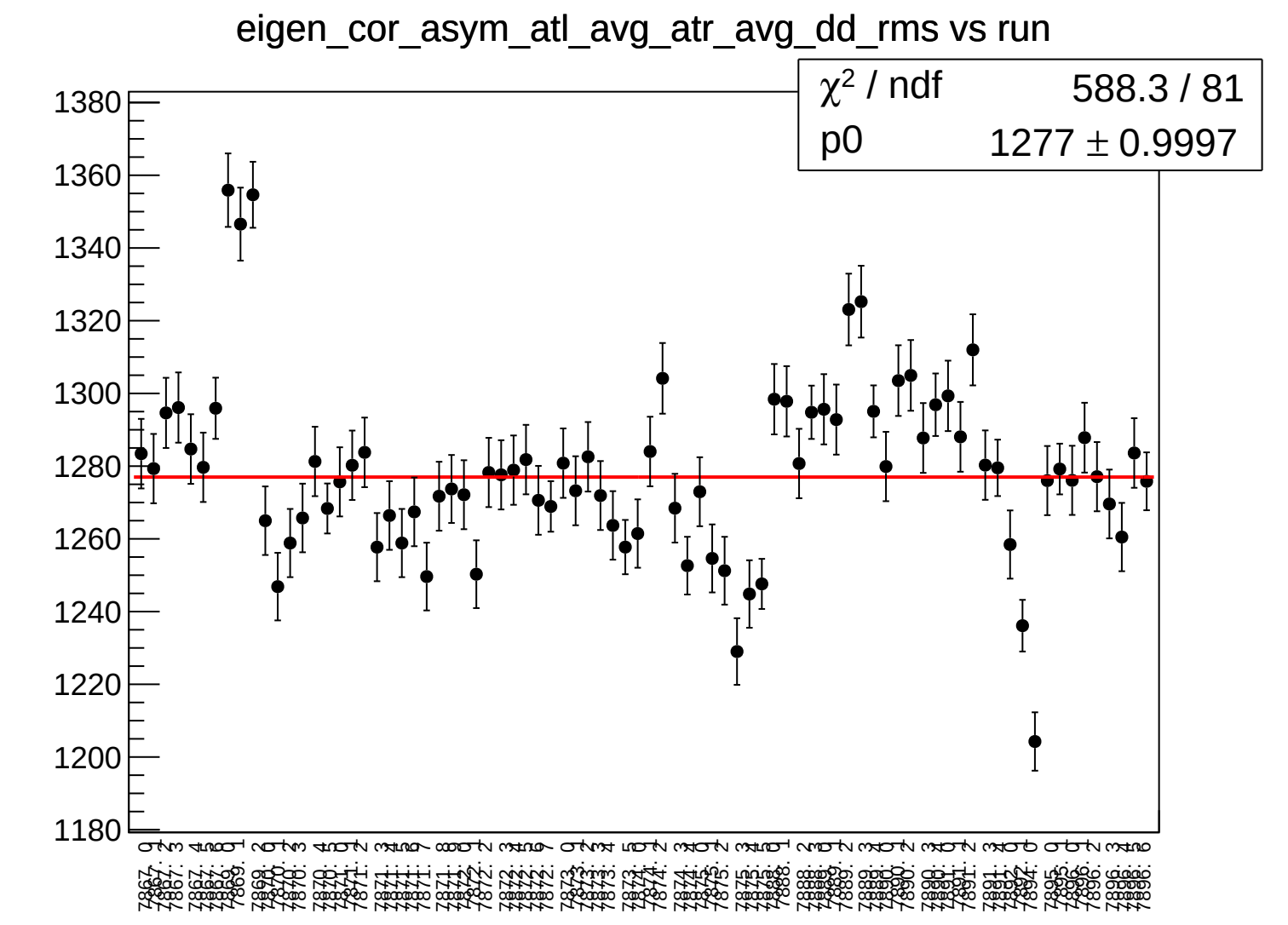

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 65.89 / 81
p0 −891.5 ± 1758
pull
Entries 82
Mean −148.3
Std Dev 0

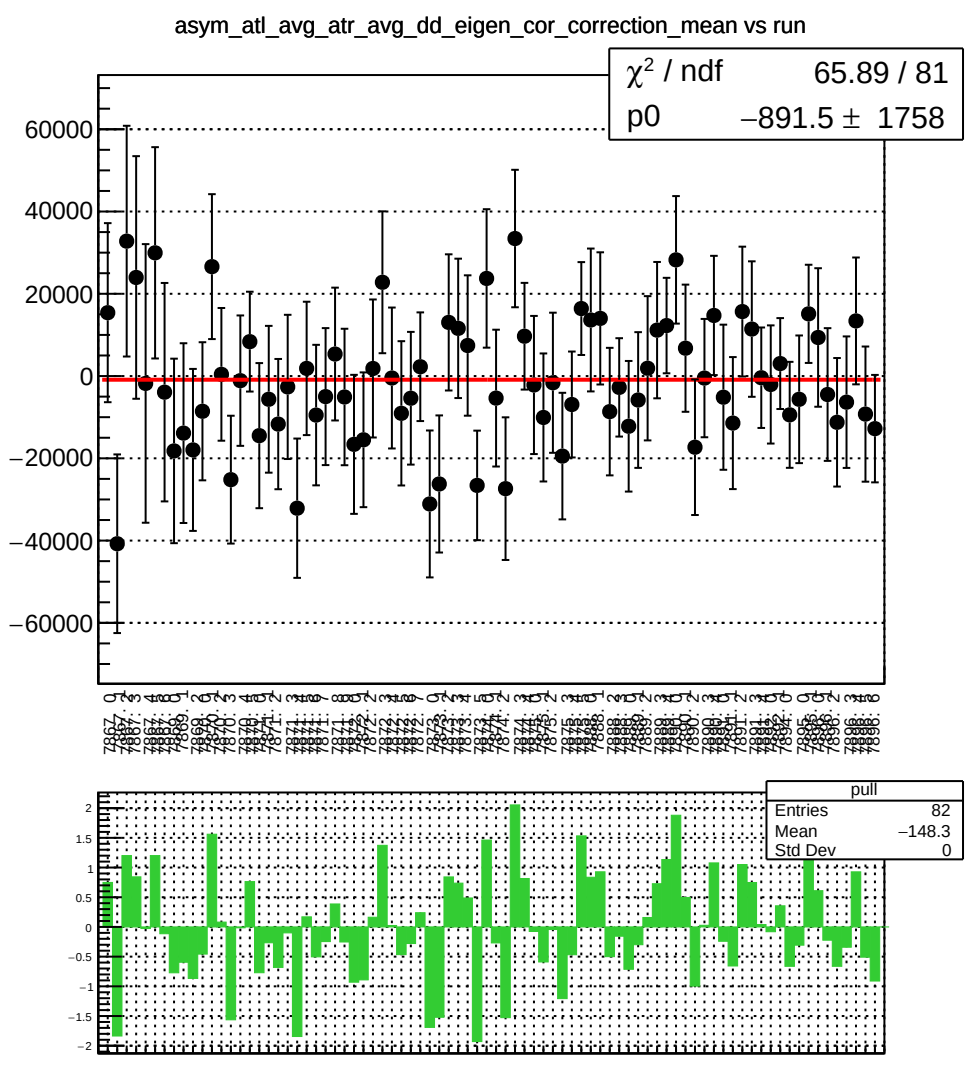

pull1D
Entries 82
Mean −0.01254
Std Dev 0.8963

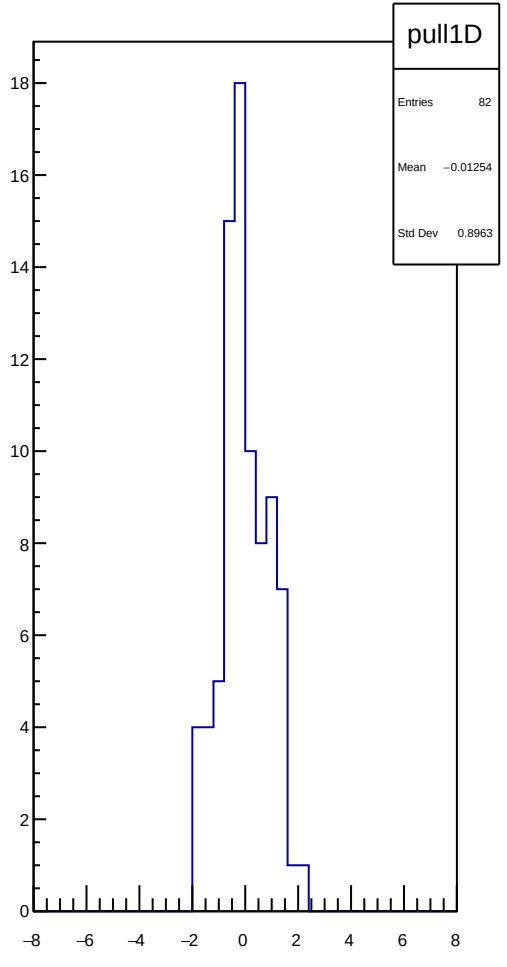

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 3.063e+04 / 81
p0 1574 ± 1.243
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

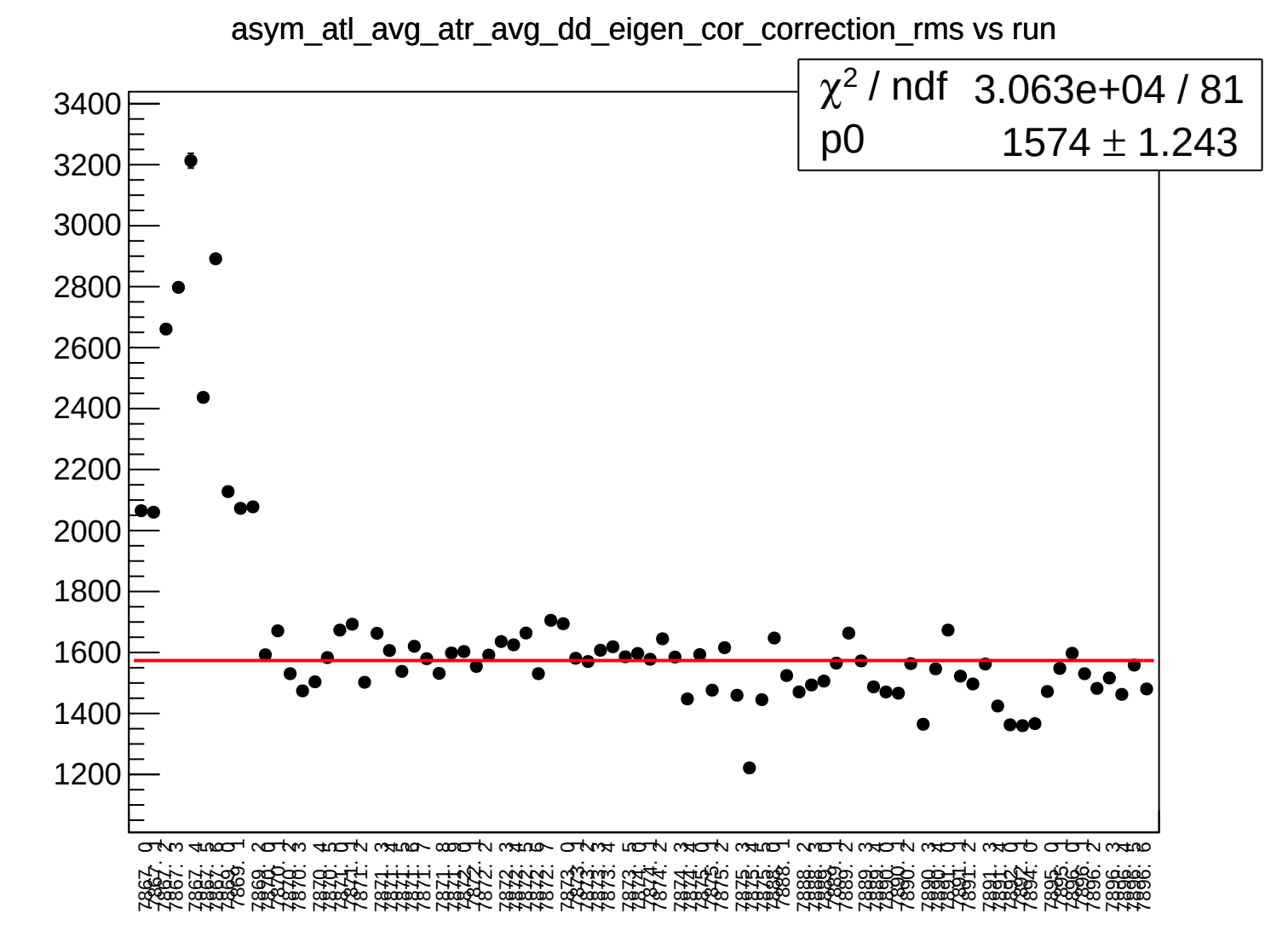

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.44 / 81
p0 −214 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −234.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

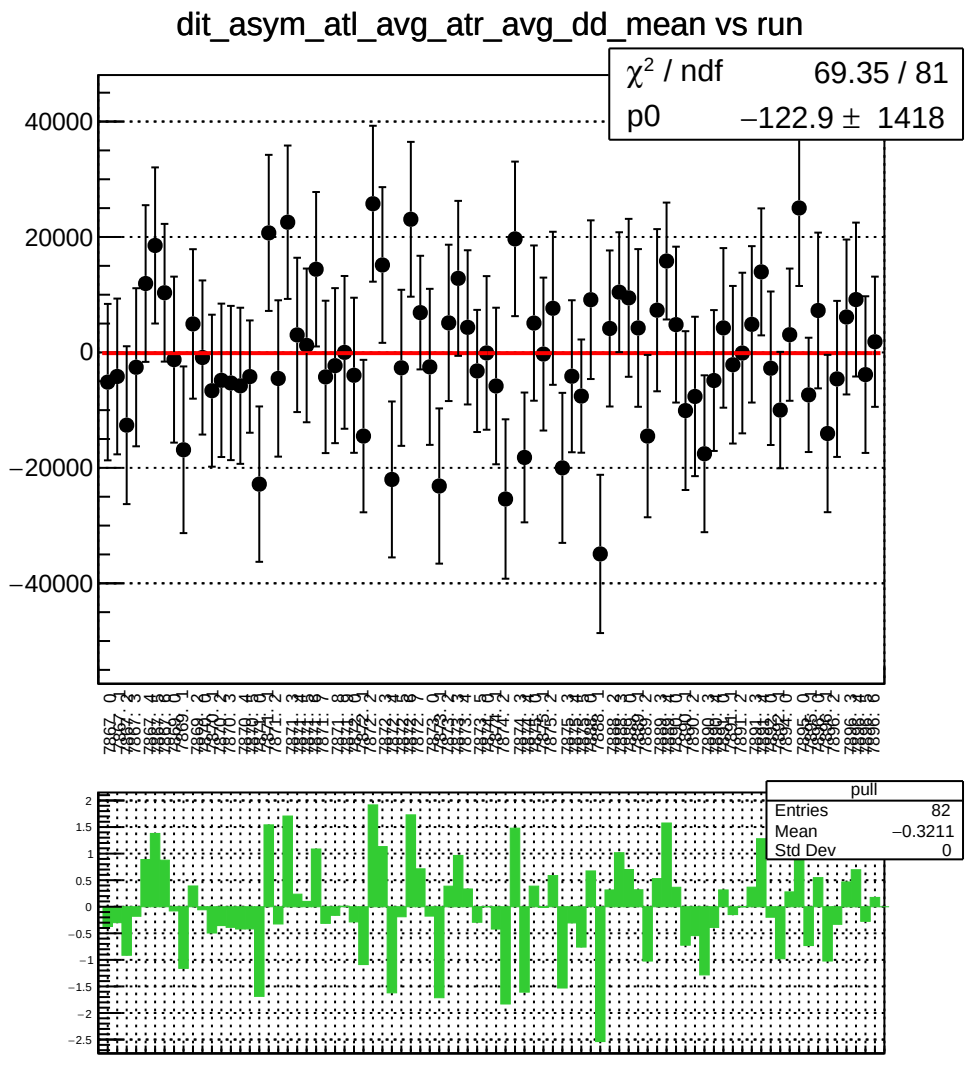

pull1D
Entries 82
Mean −0.002151
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

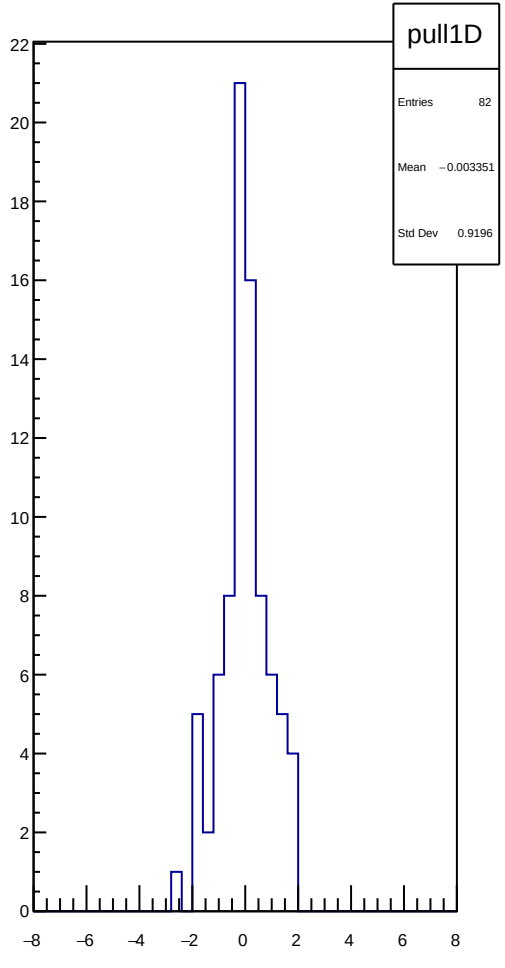

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 588.3 / 81
p0 1277 ± 0.9997
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

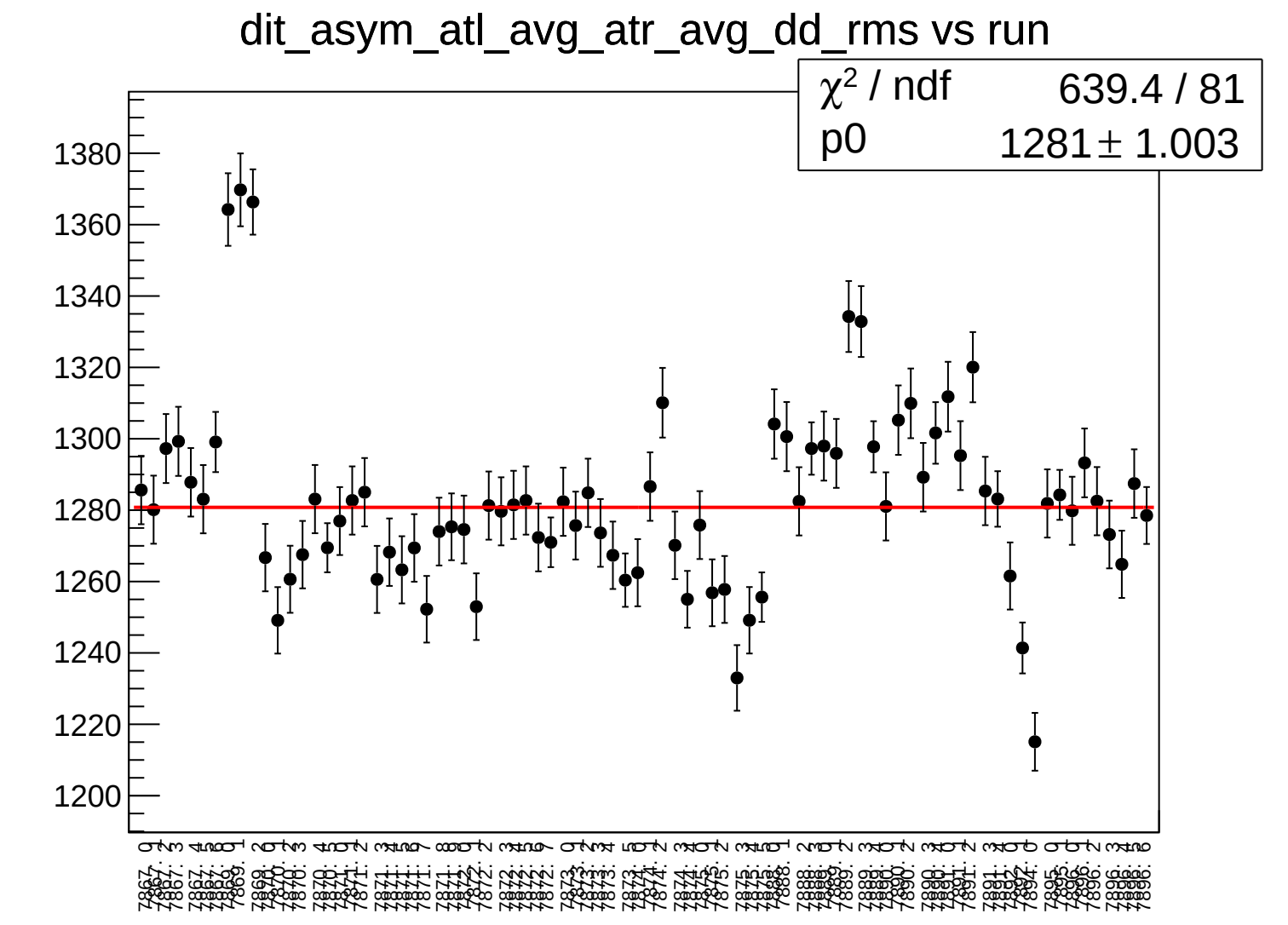

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.89 / 81
p0 −891.5 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −148.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

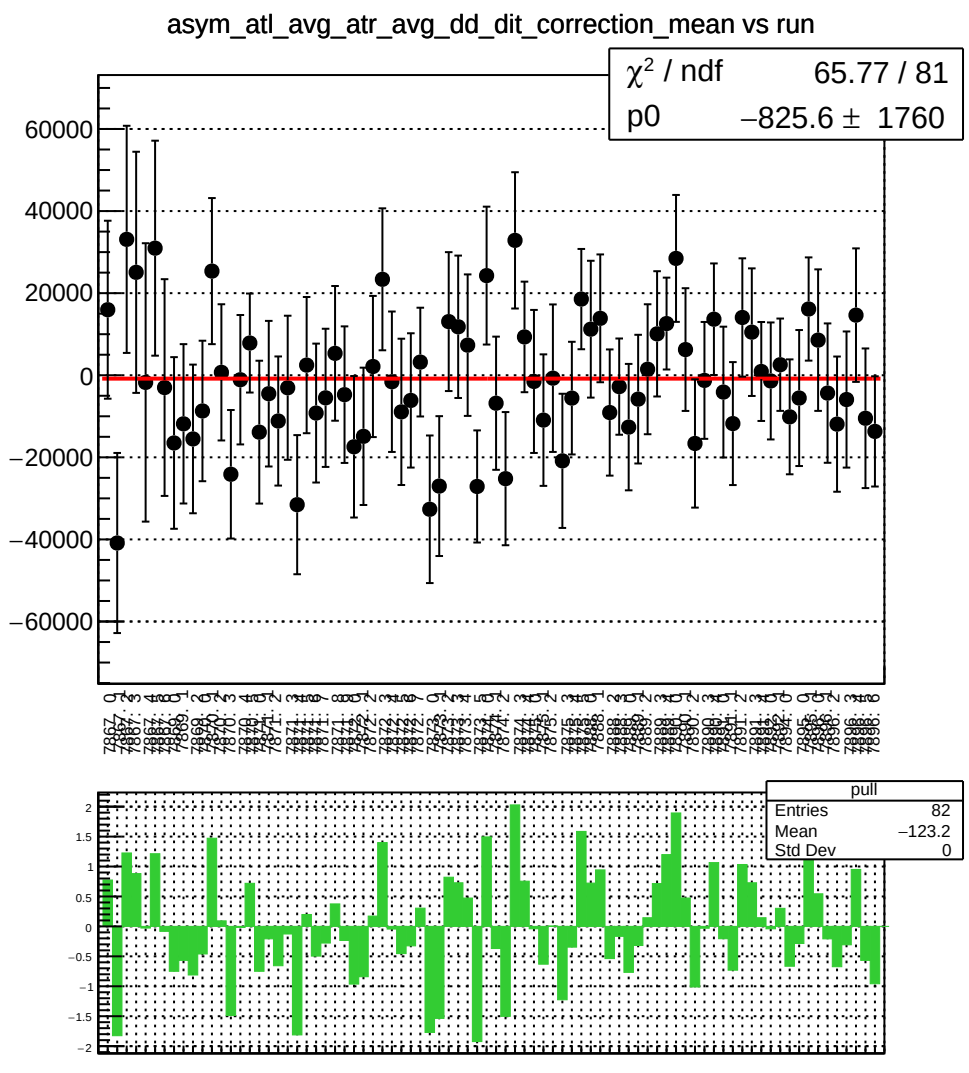

pull1D
Entries 82
Mean −0.01254
Std Dev 0.8963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

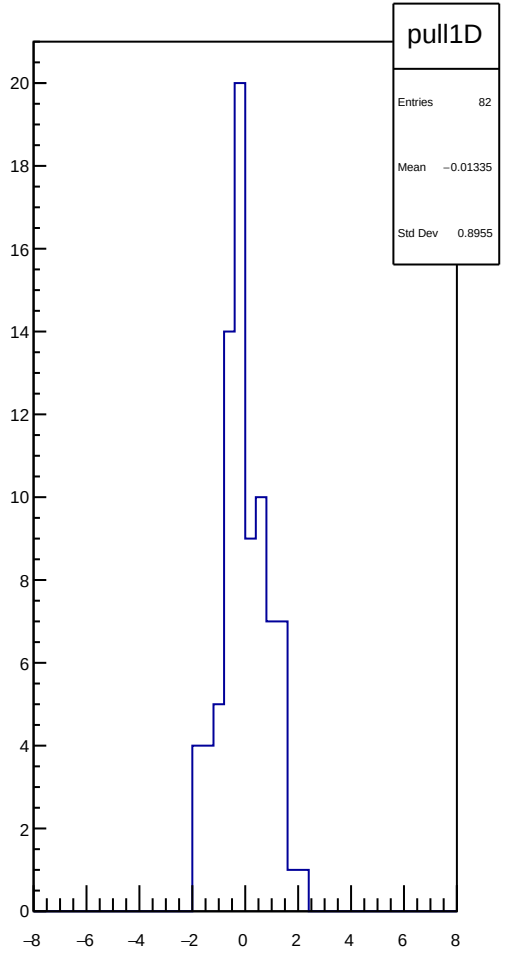

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.063e+04 / 81
p0 1574 ± 1.243
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

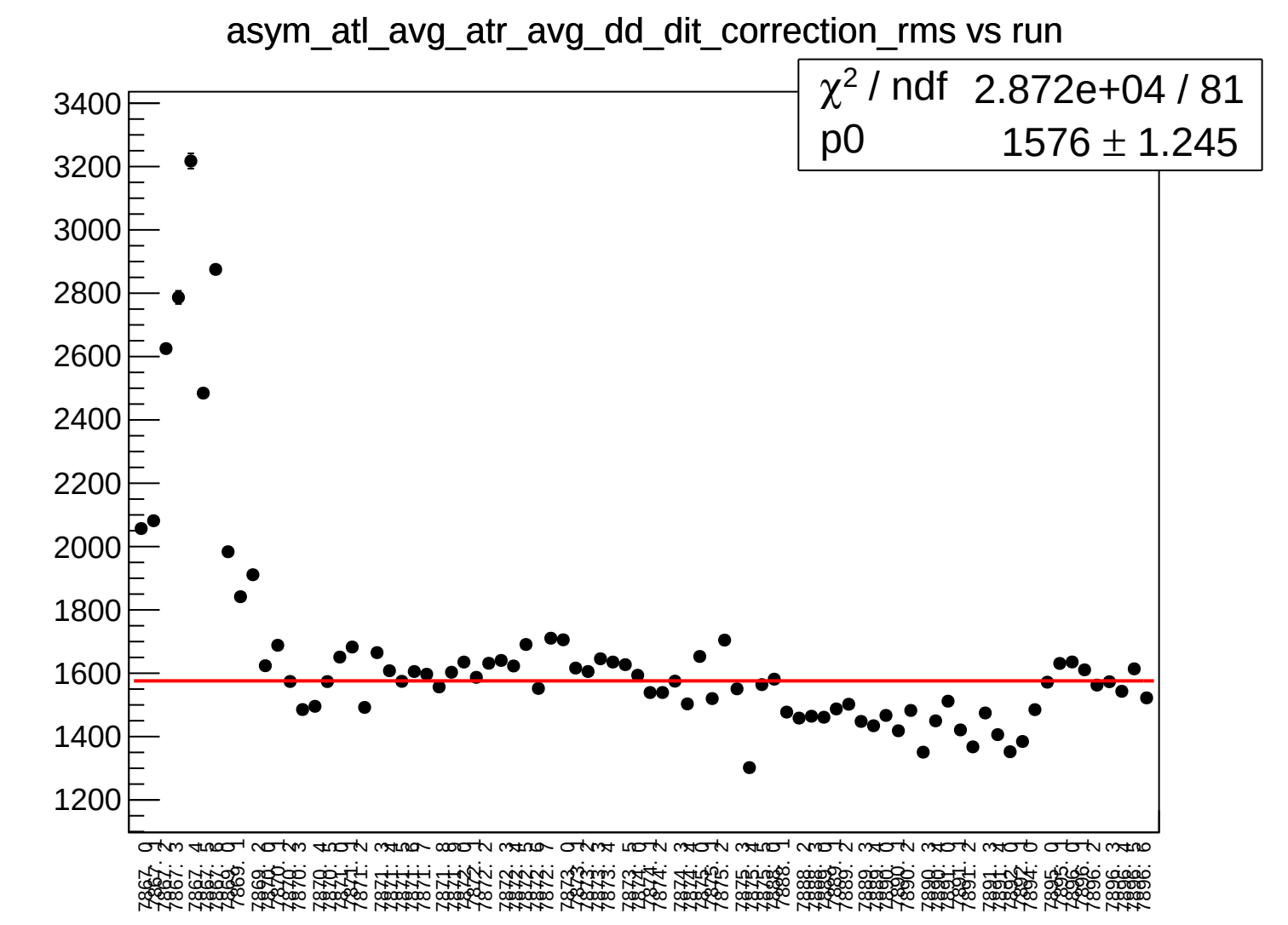

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.35 / 81
p0 −122.9 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −0.3211
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

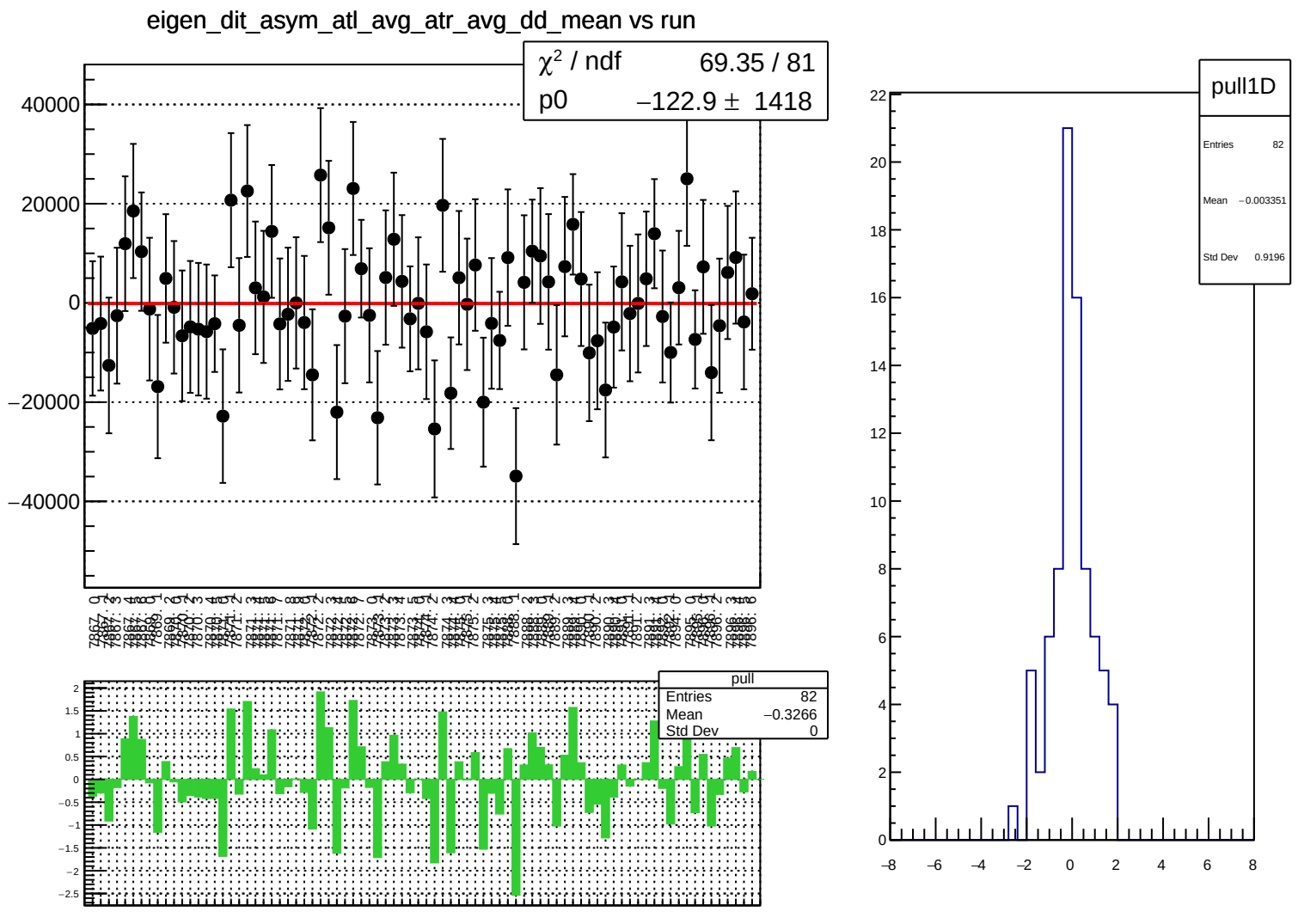

pull1D
Entries 82
Mean −0.003351
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

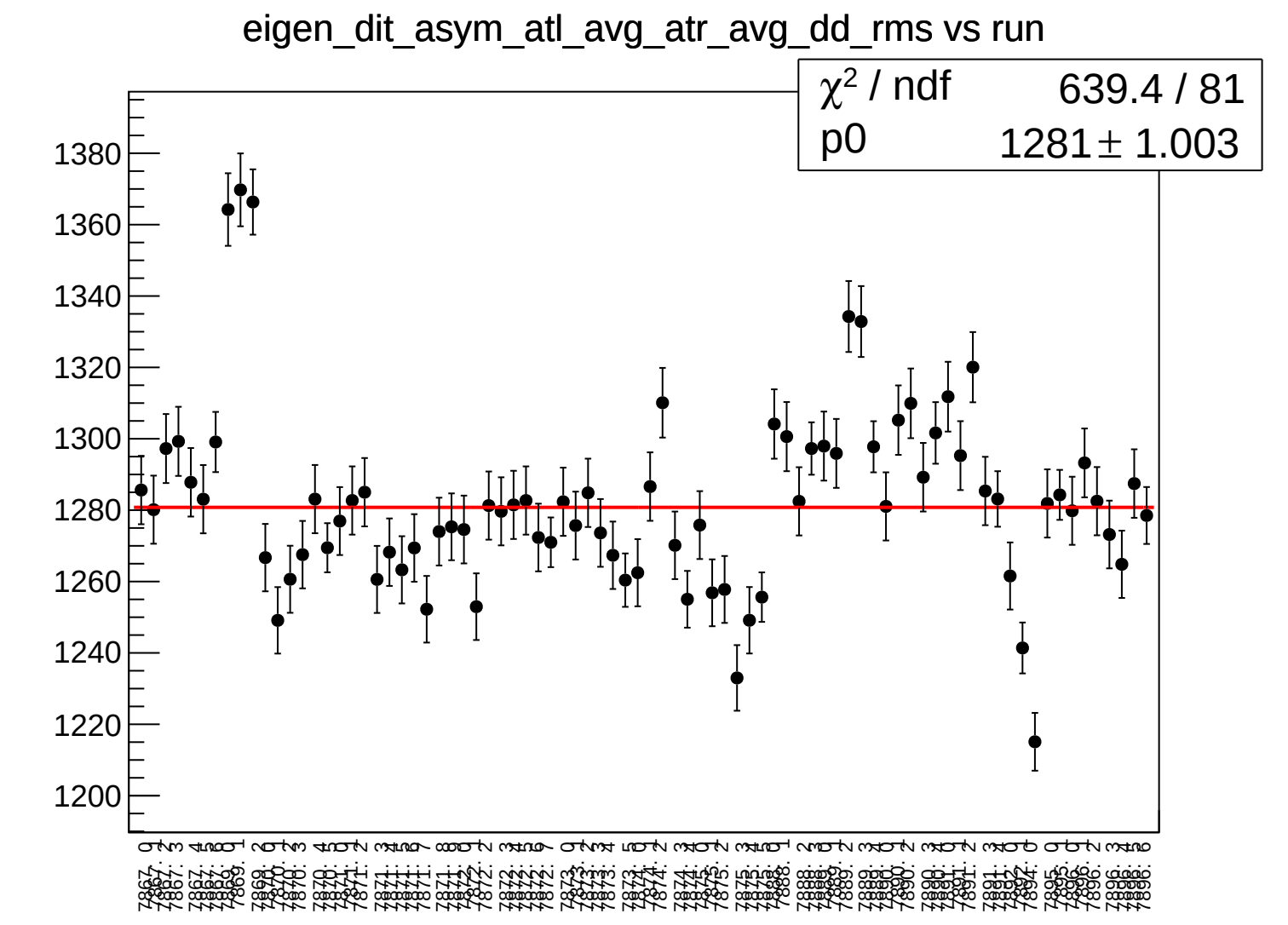

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 639.4 / 81
p0 1281 ± 1.003
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

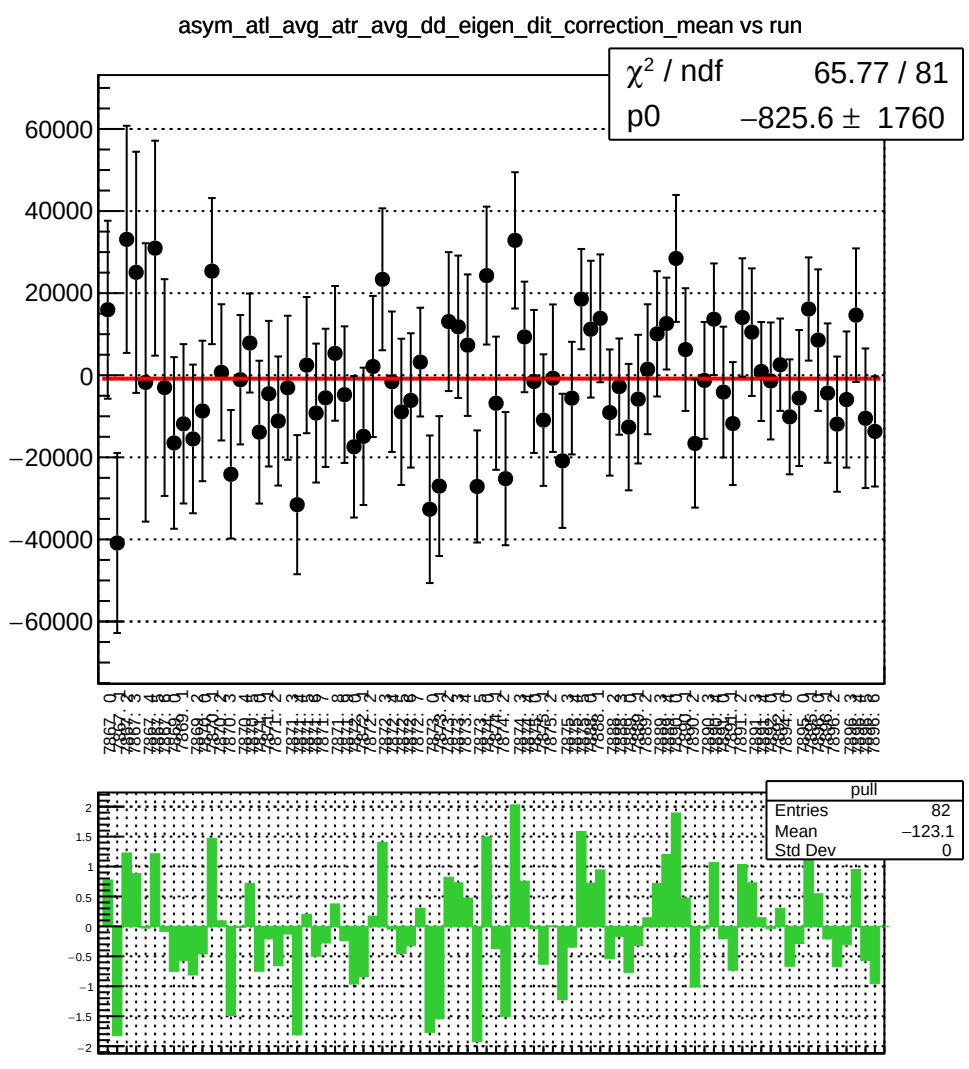

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 65.77 / 81
p0 −825.6 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −123.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

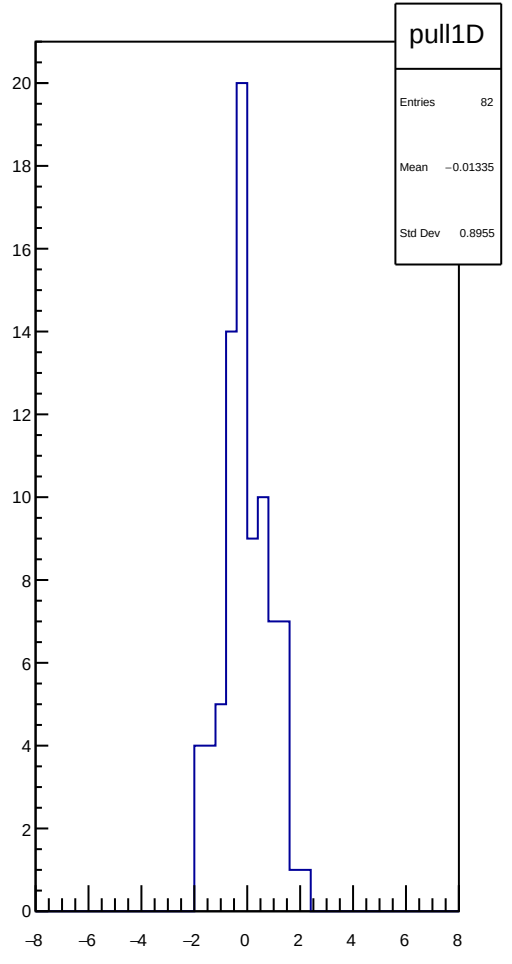

pull1D
Entries 82
Mean −0.01335
Std Dev 0.8955
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

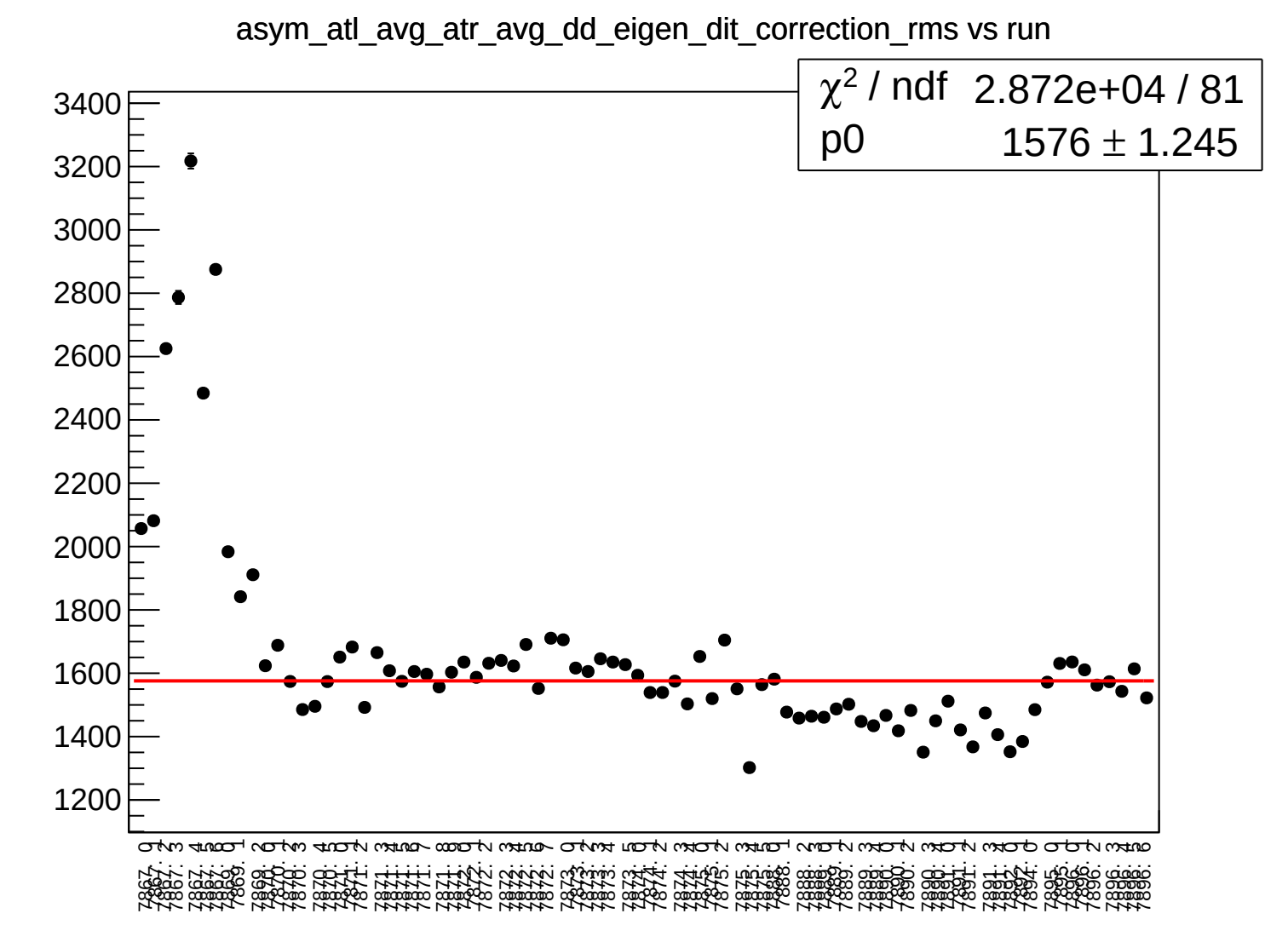

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.872e+04 / 81
p0 1576 ± 1.245
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

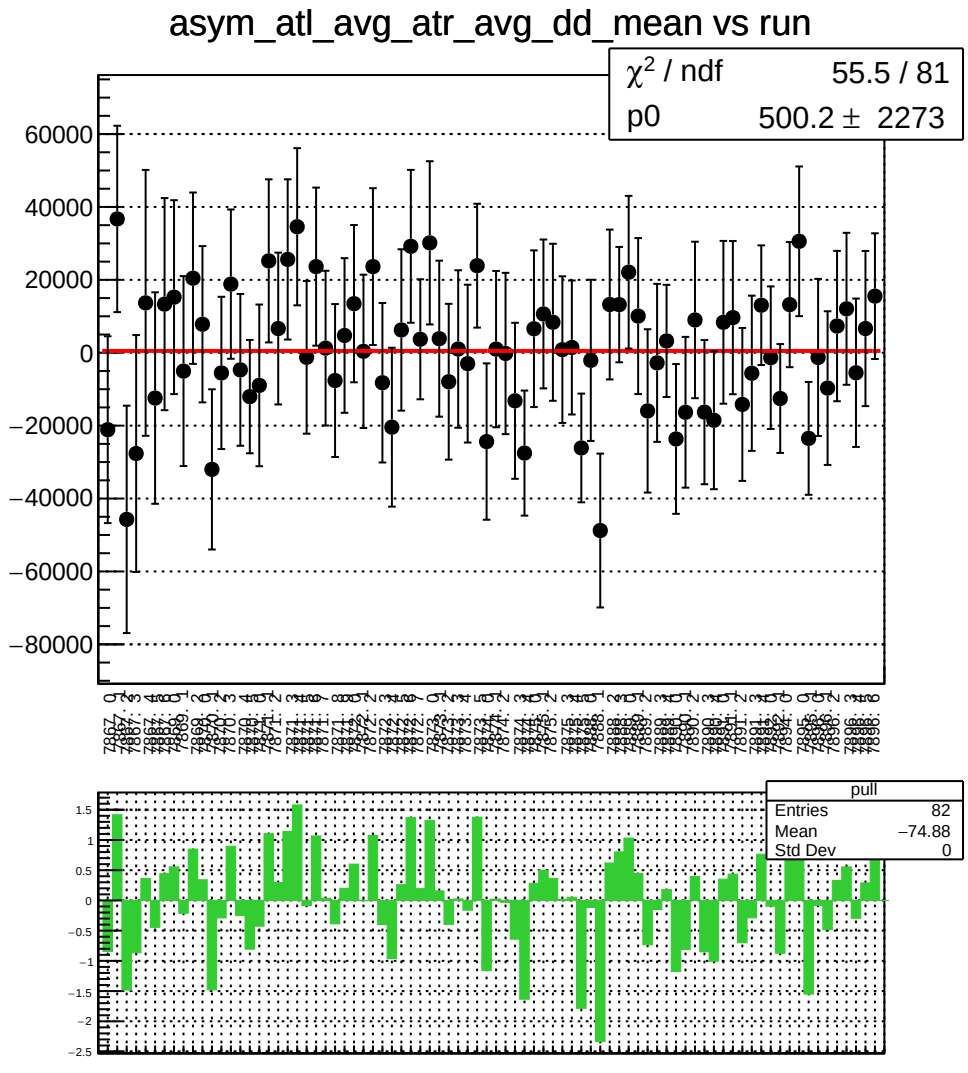

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.35 / 81
p0 −122.9 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −0.3266
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.003351
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

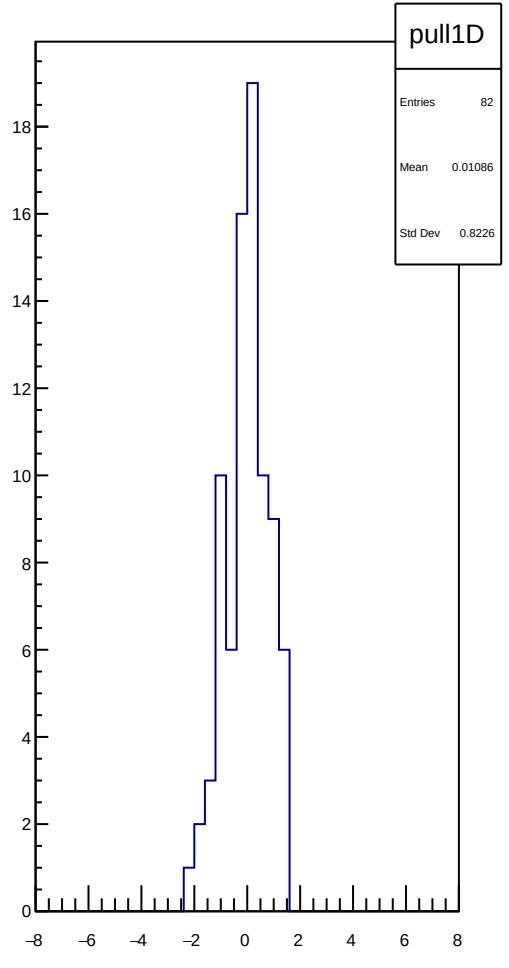

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 639.4 / 81
p0 1281 ± 1.003
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

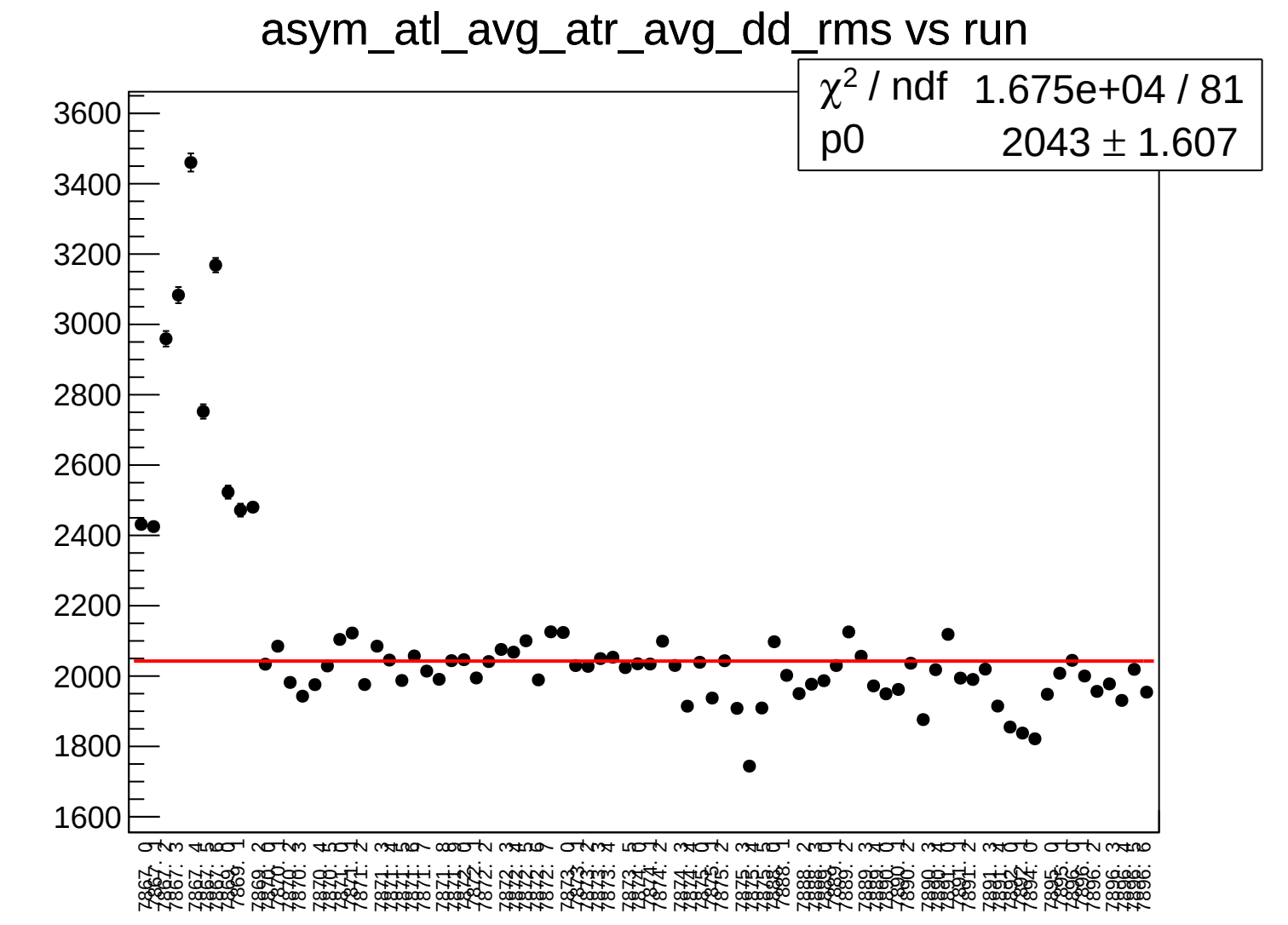

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.77 / 81
p0 −825.6 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −123.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

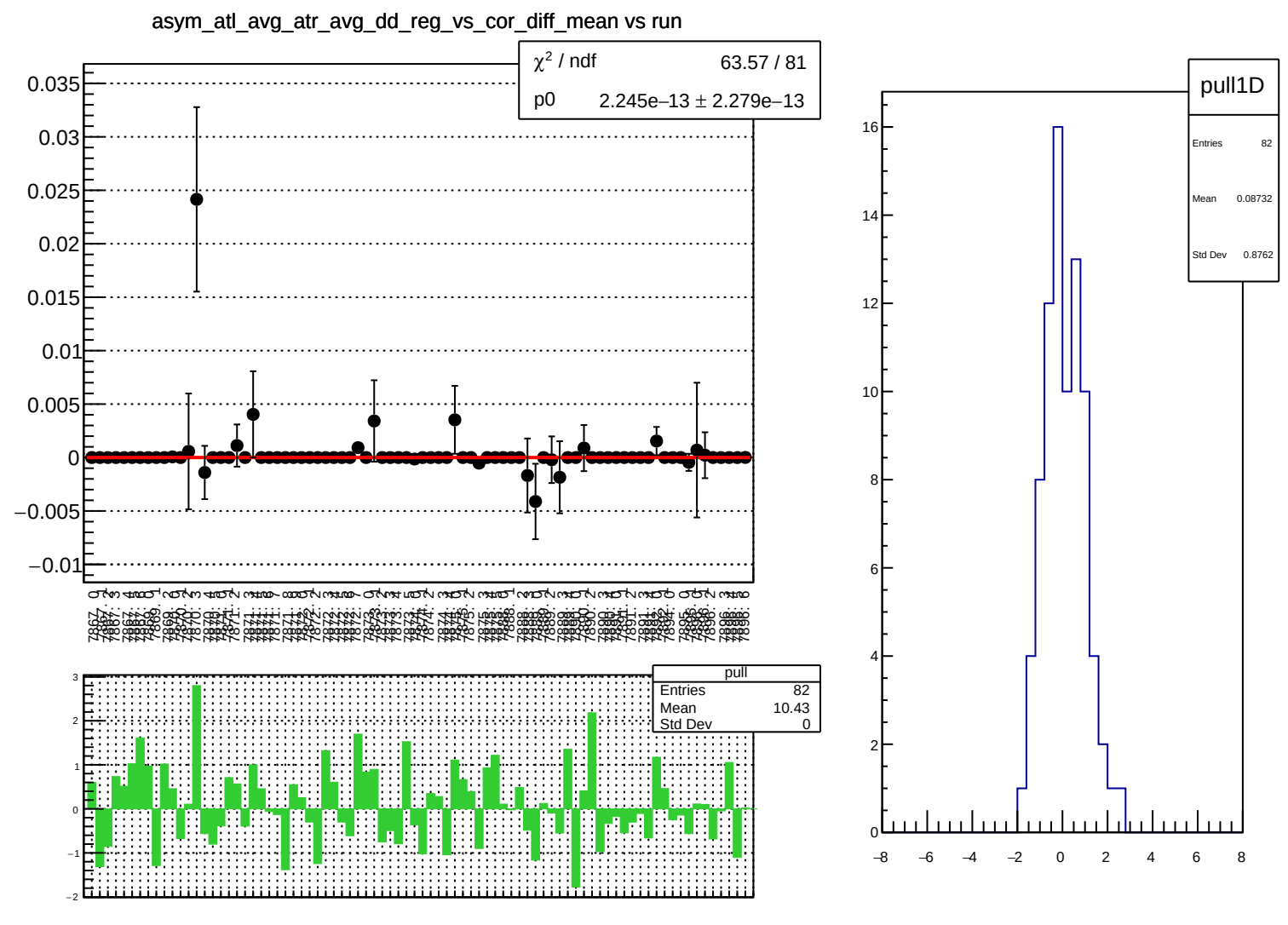

pull1D
Entries 82
Mean −0.01335
Std Dev 0.8955
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

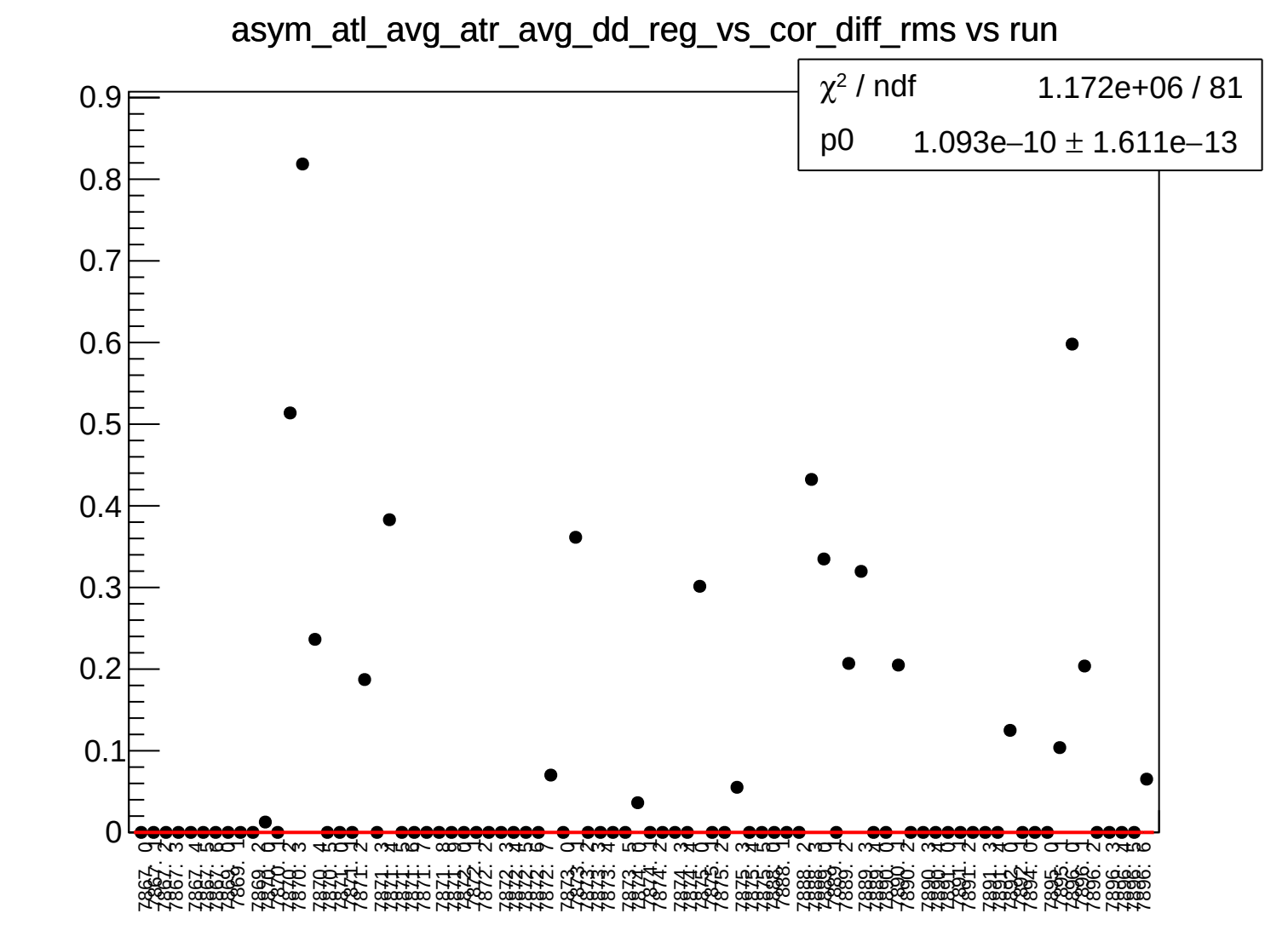

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.872e+04 / 81
p0 1576 ± 1.245
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

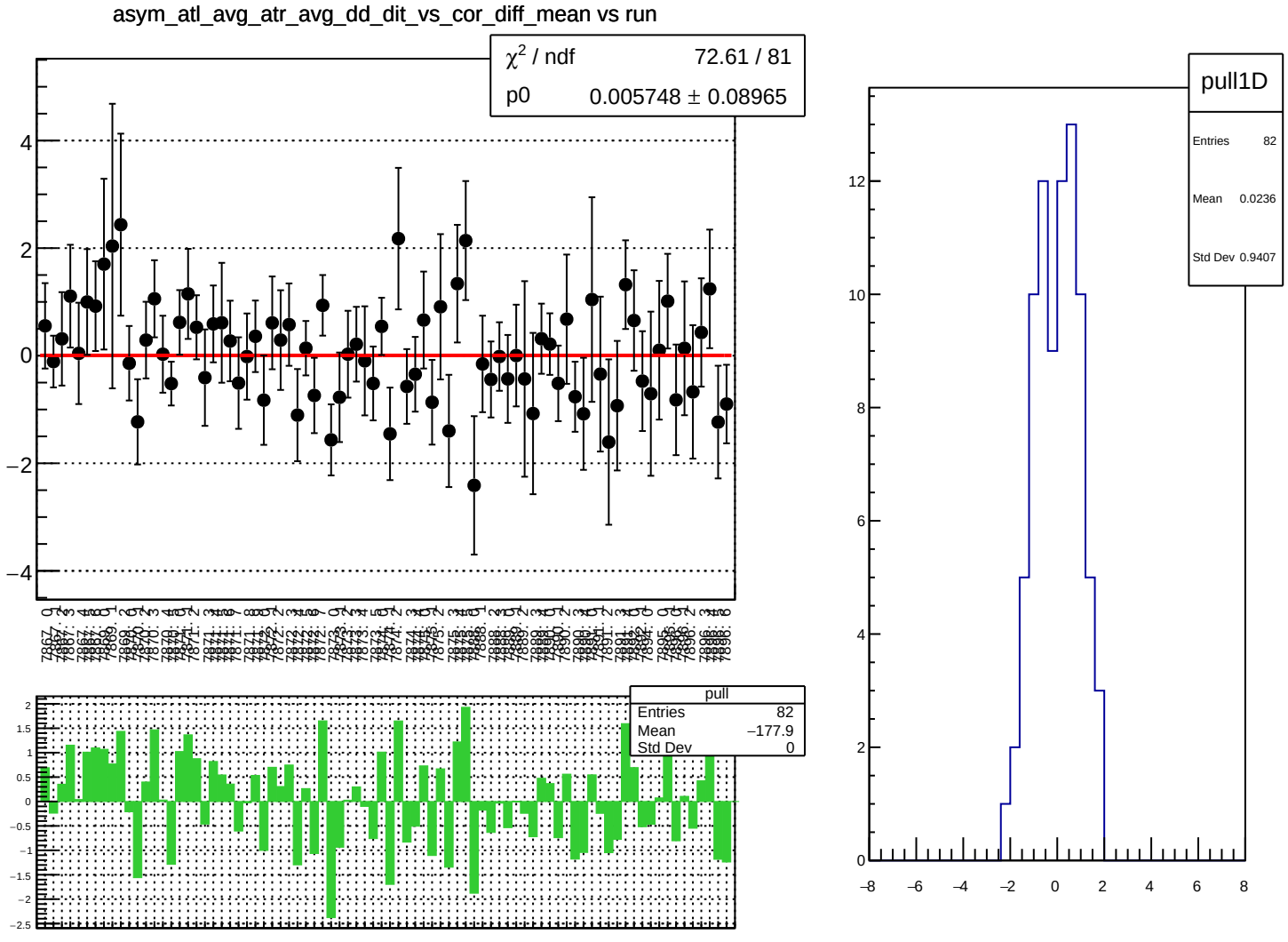

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 55.5 / 81
p0 500.2 ± 2273
pull
Entries 82
Mean −74.88
Std Dev 0

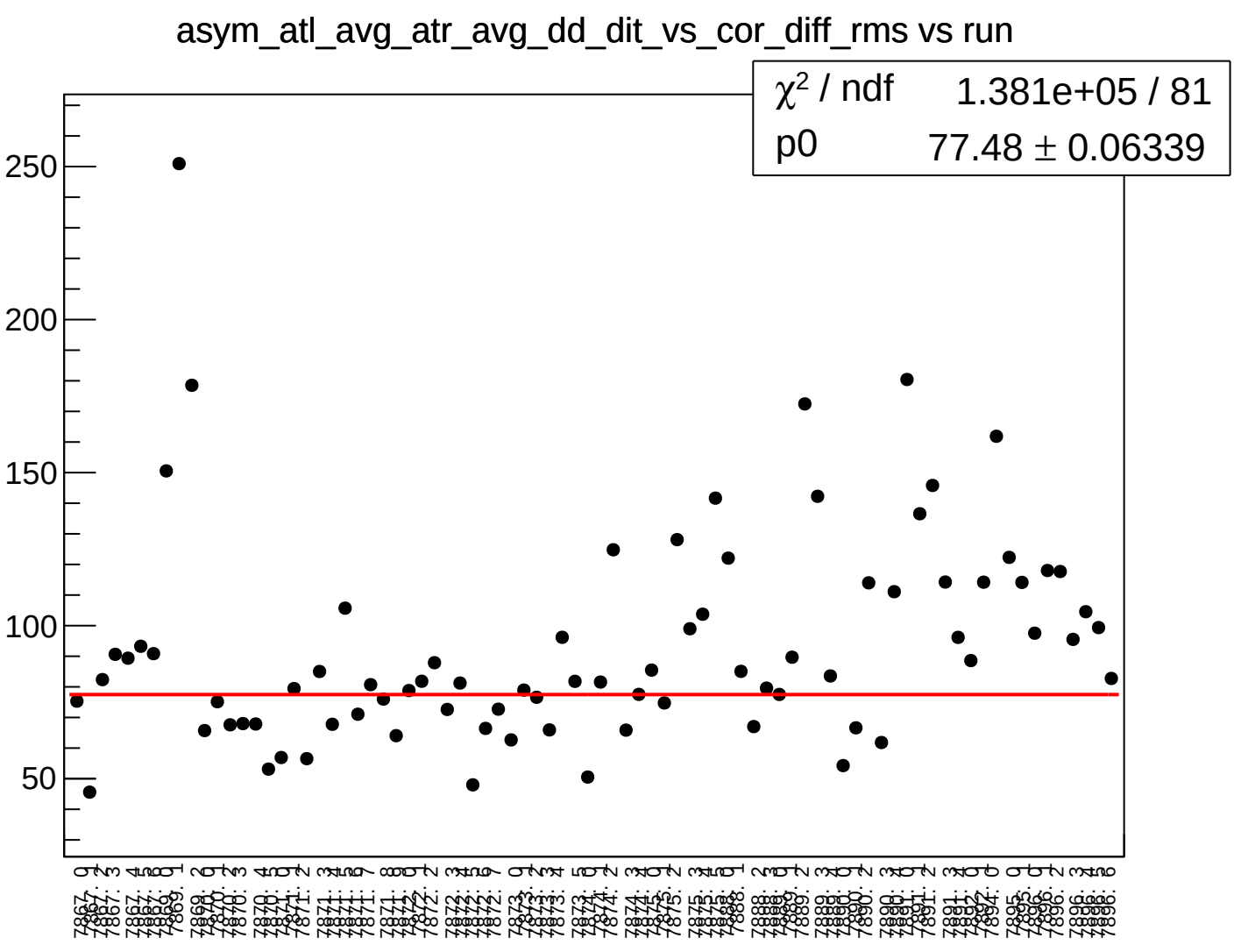

pull1D
Entries 82
Mean 0.01086
Std Dev 0.8226

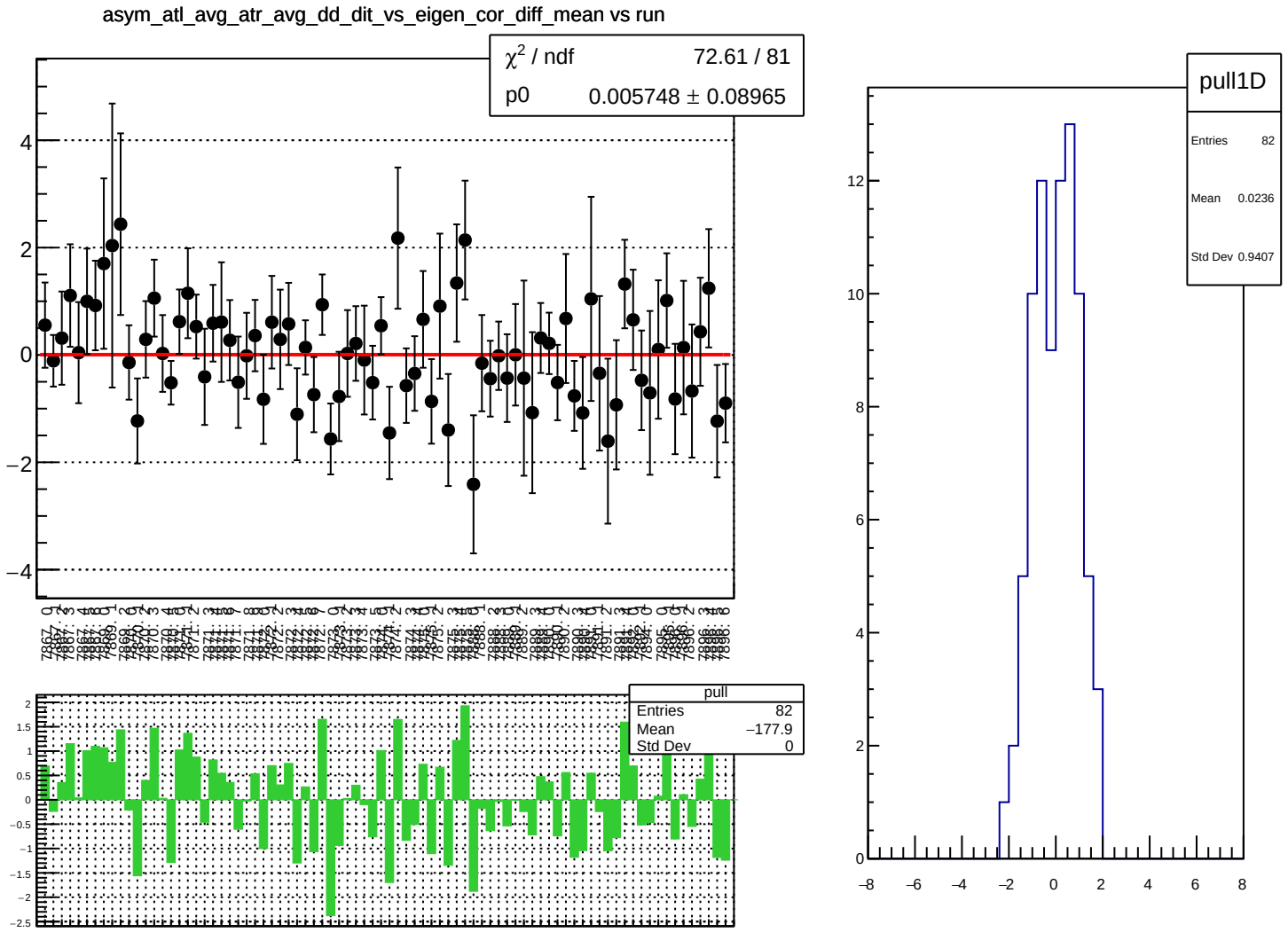

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.675e+04 / 81
p0 2043 ± 1.607
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

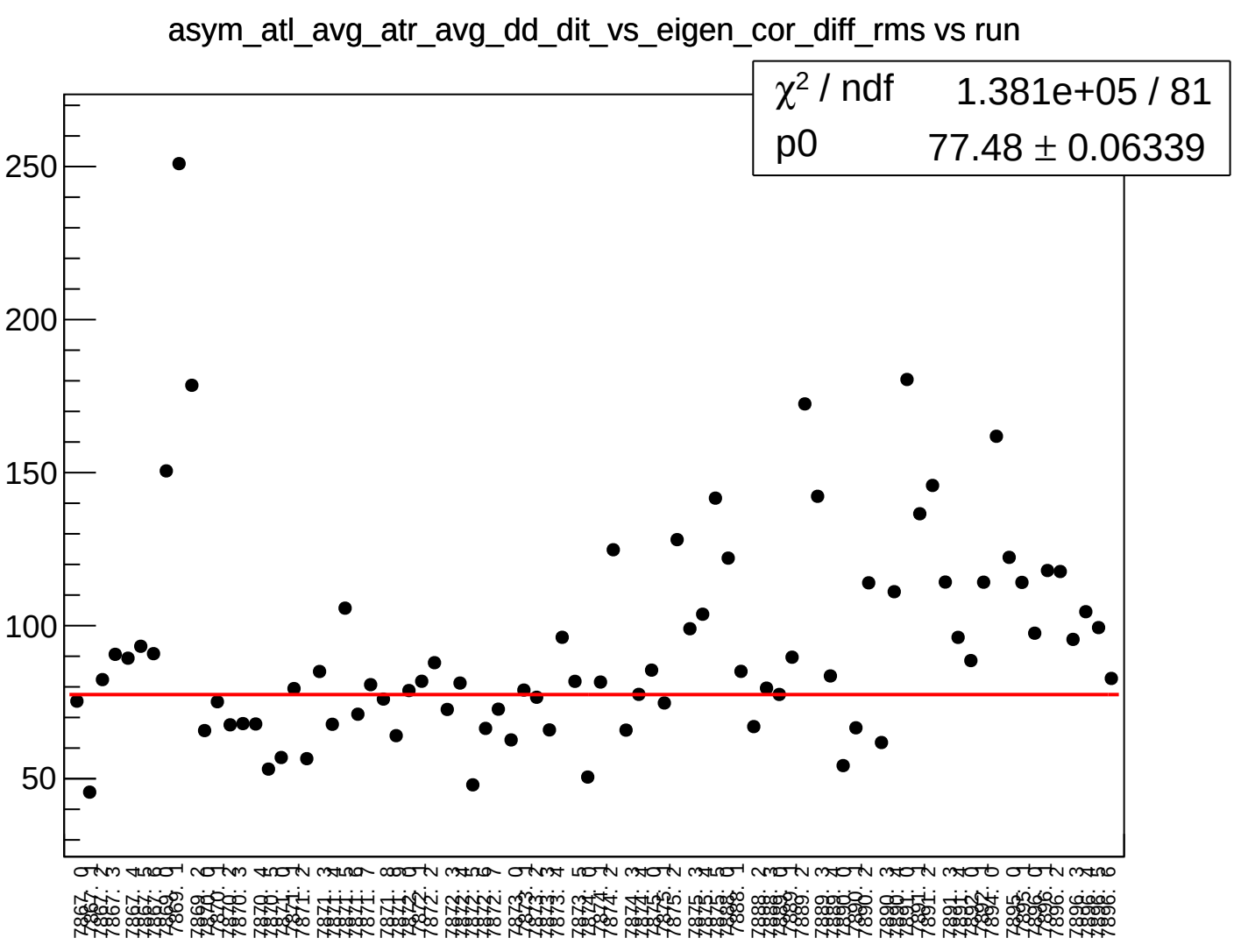

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.57 / 81
p0 2.245e−13 ± 2.279e−13
pull
Entries 82
Mean 10.43
Std Dev 0
pull1D
Entries 82
Mean 0.08732
Std Dev 0.8762

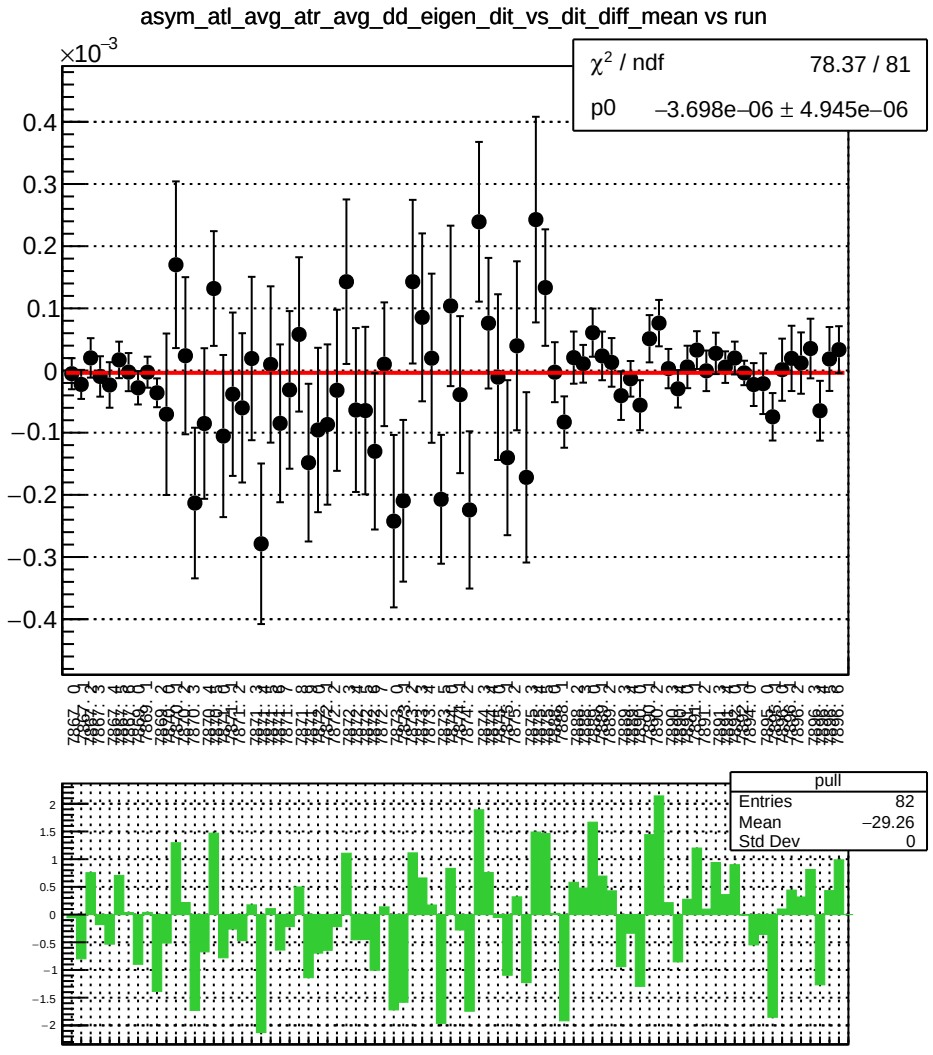

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 81
p0 1.093e−10 ± 1.611e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

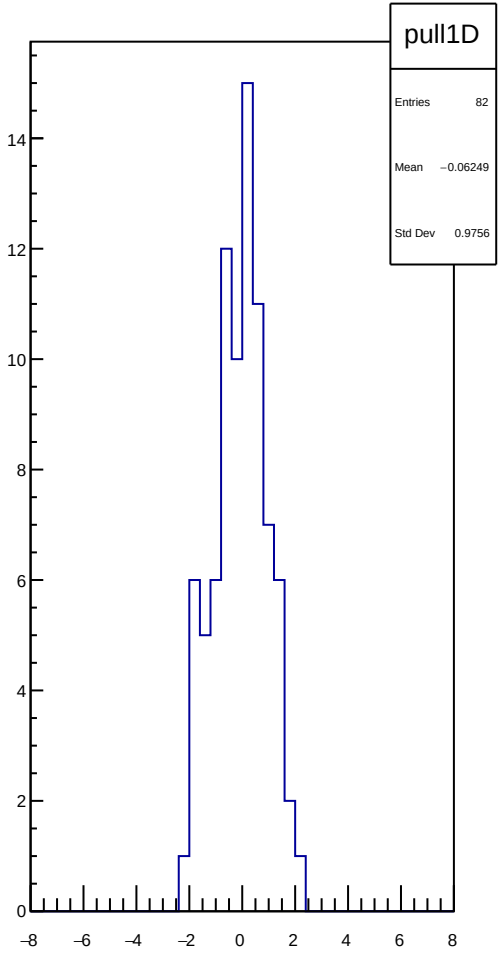

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.005748 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

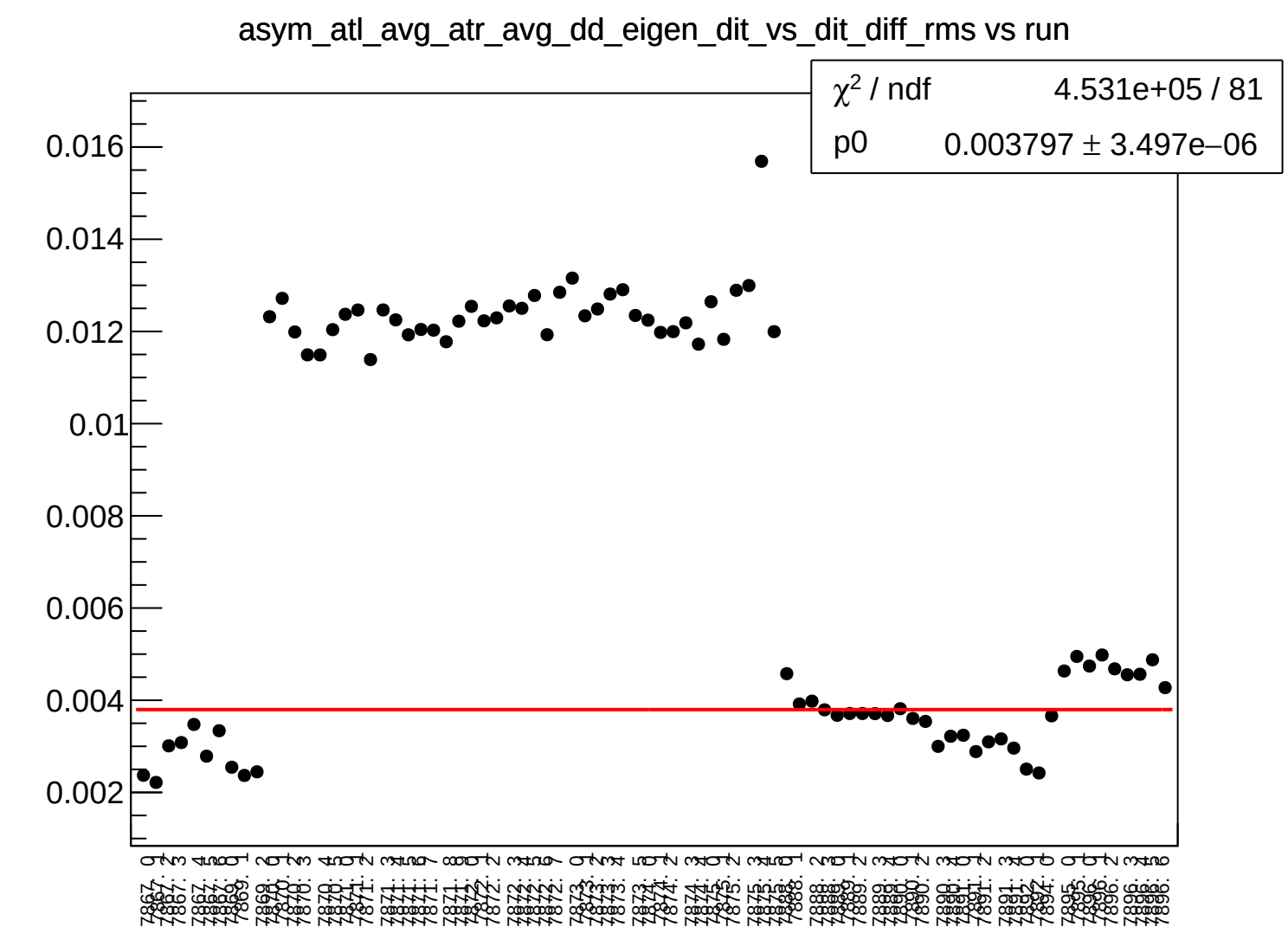

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

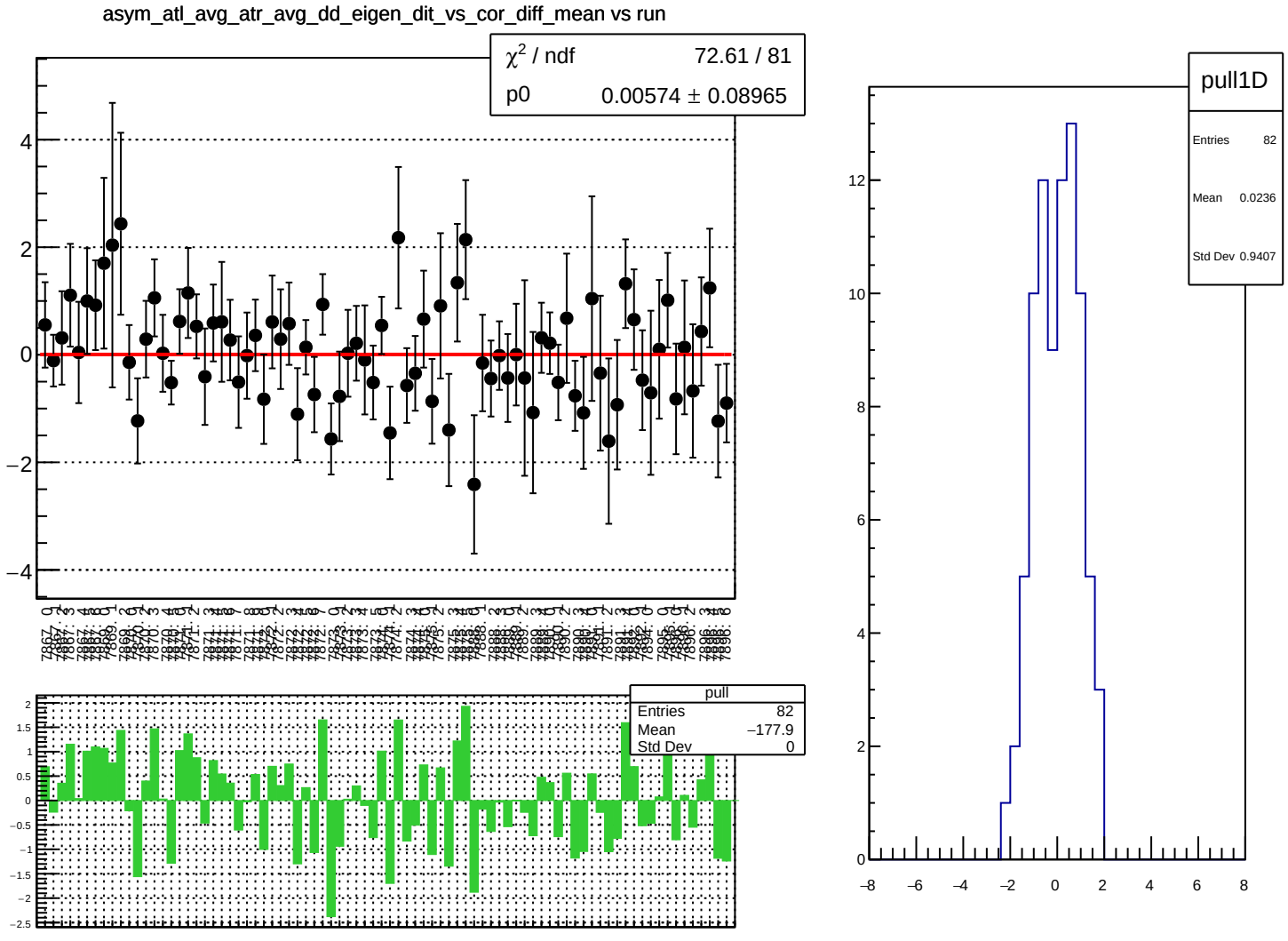

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.005748 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

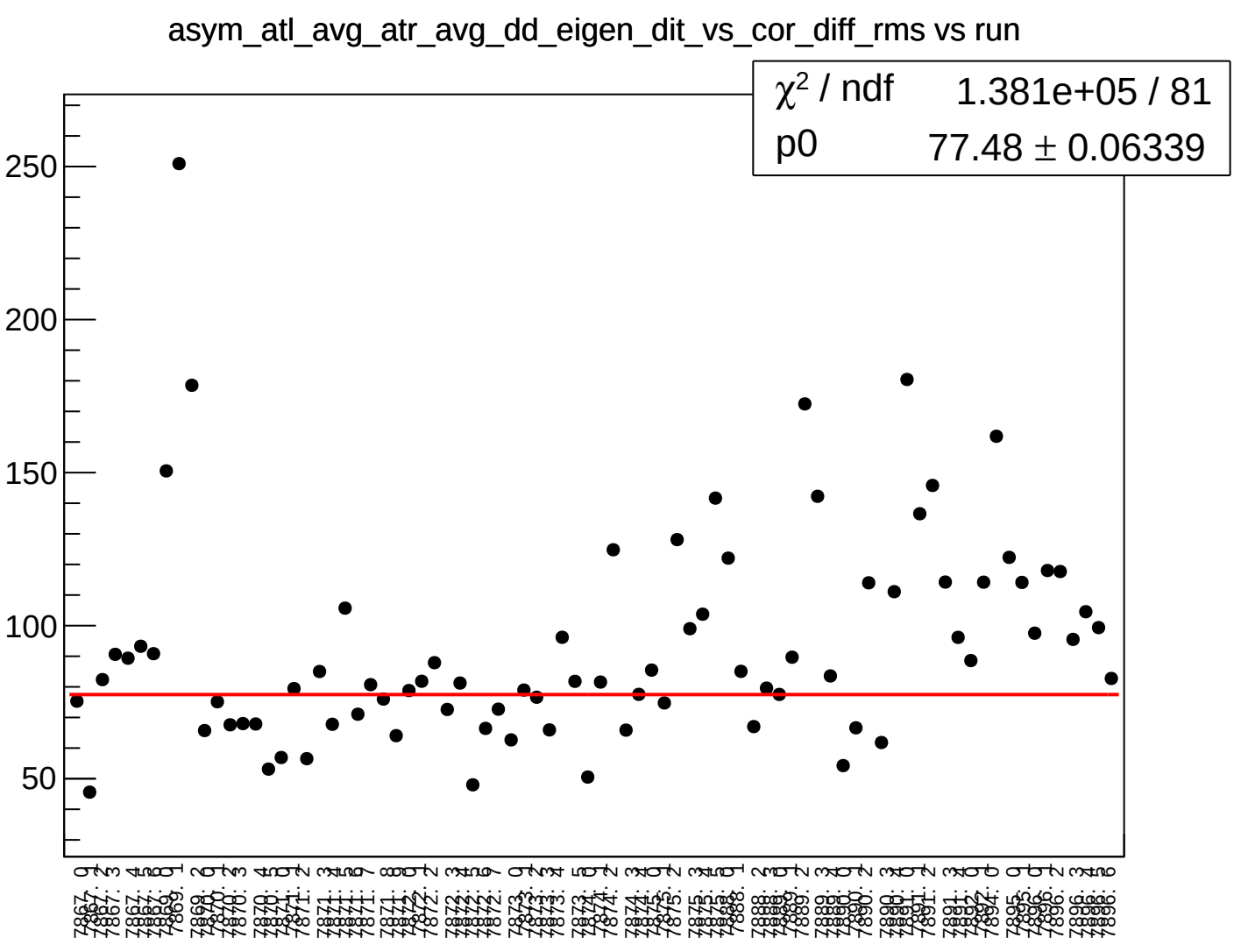

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

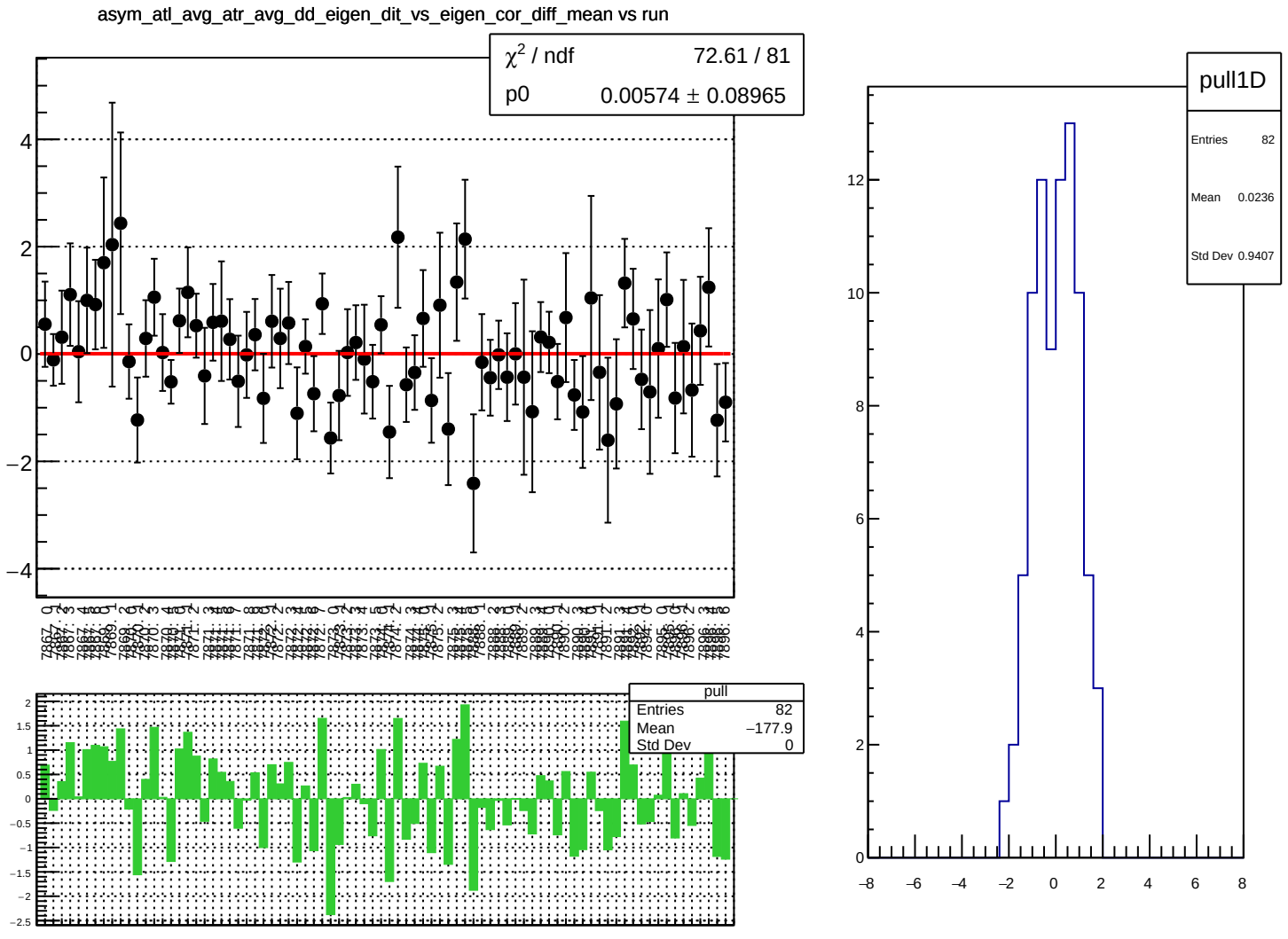

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.37 / 81
p0 −3.698e−06 ± 4.945e−06
pull
Entries 82
Mean −29.26
Std Dev 0

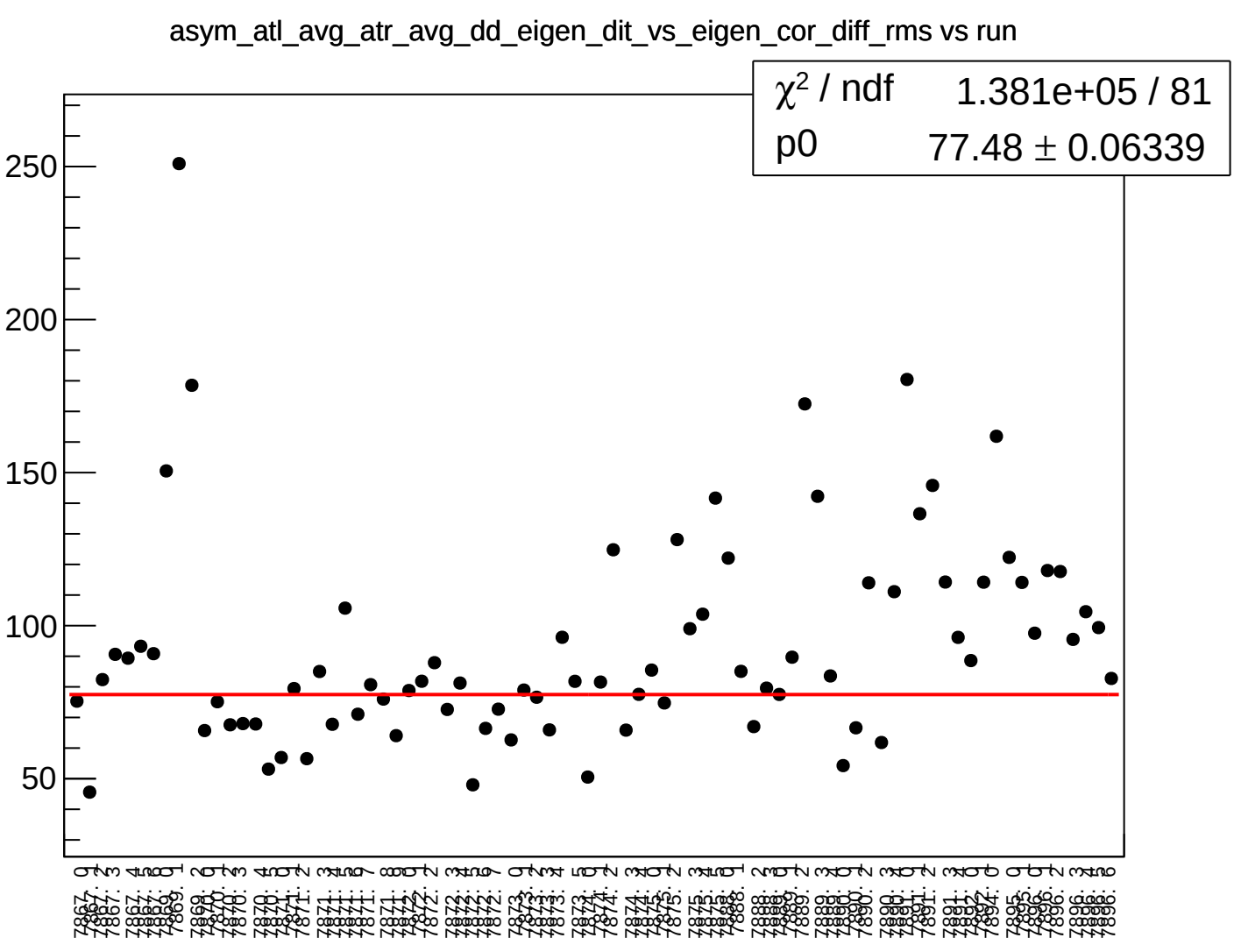

pull1D
Entries 82
Mean −0.06249
Std Dev 0.9756

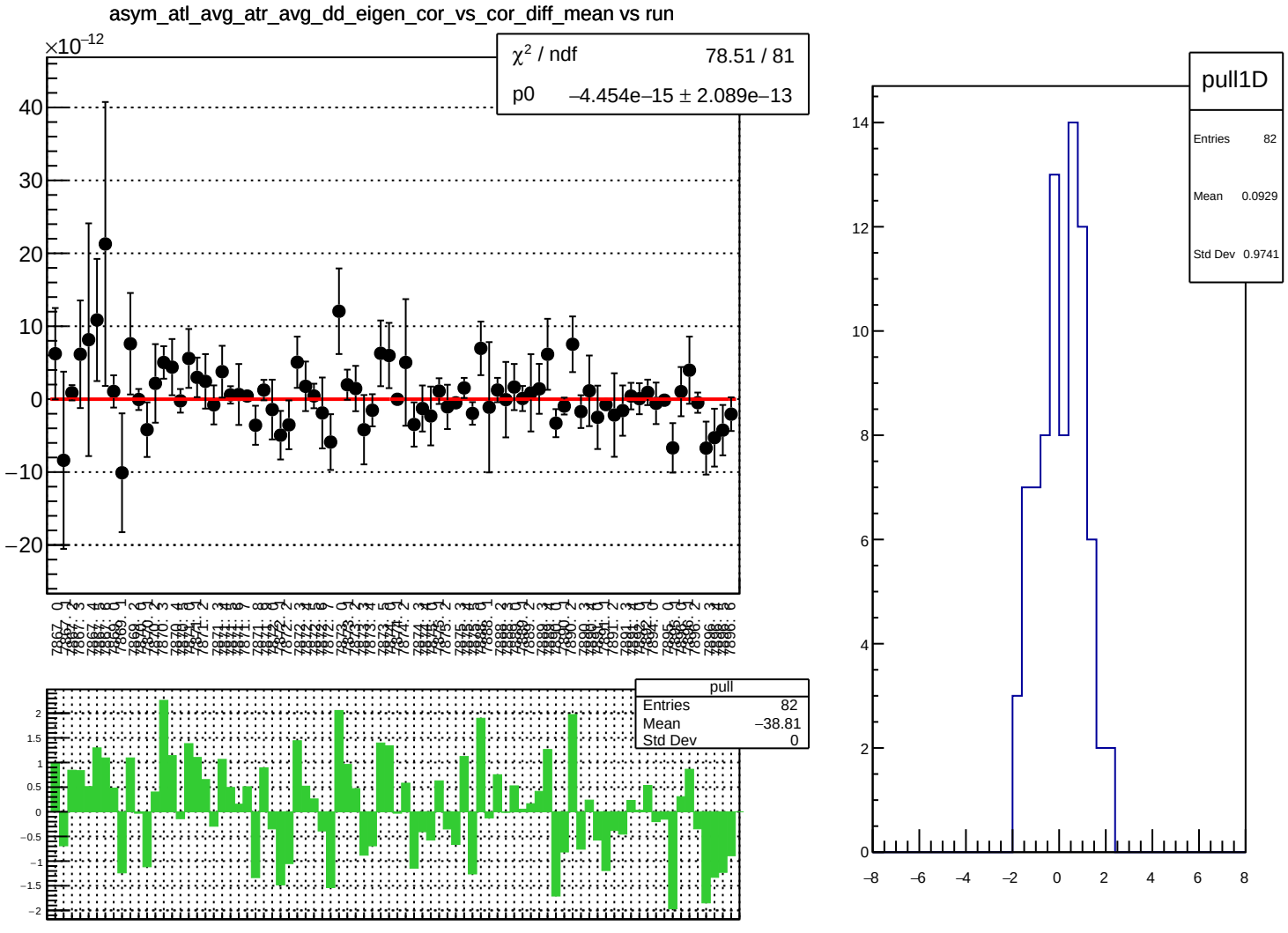

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.531e+05 / 81
p0 0.003797 ± 3.497e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

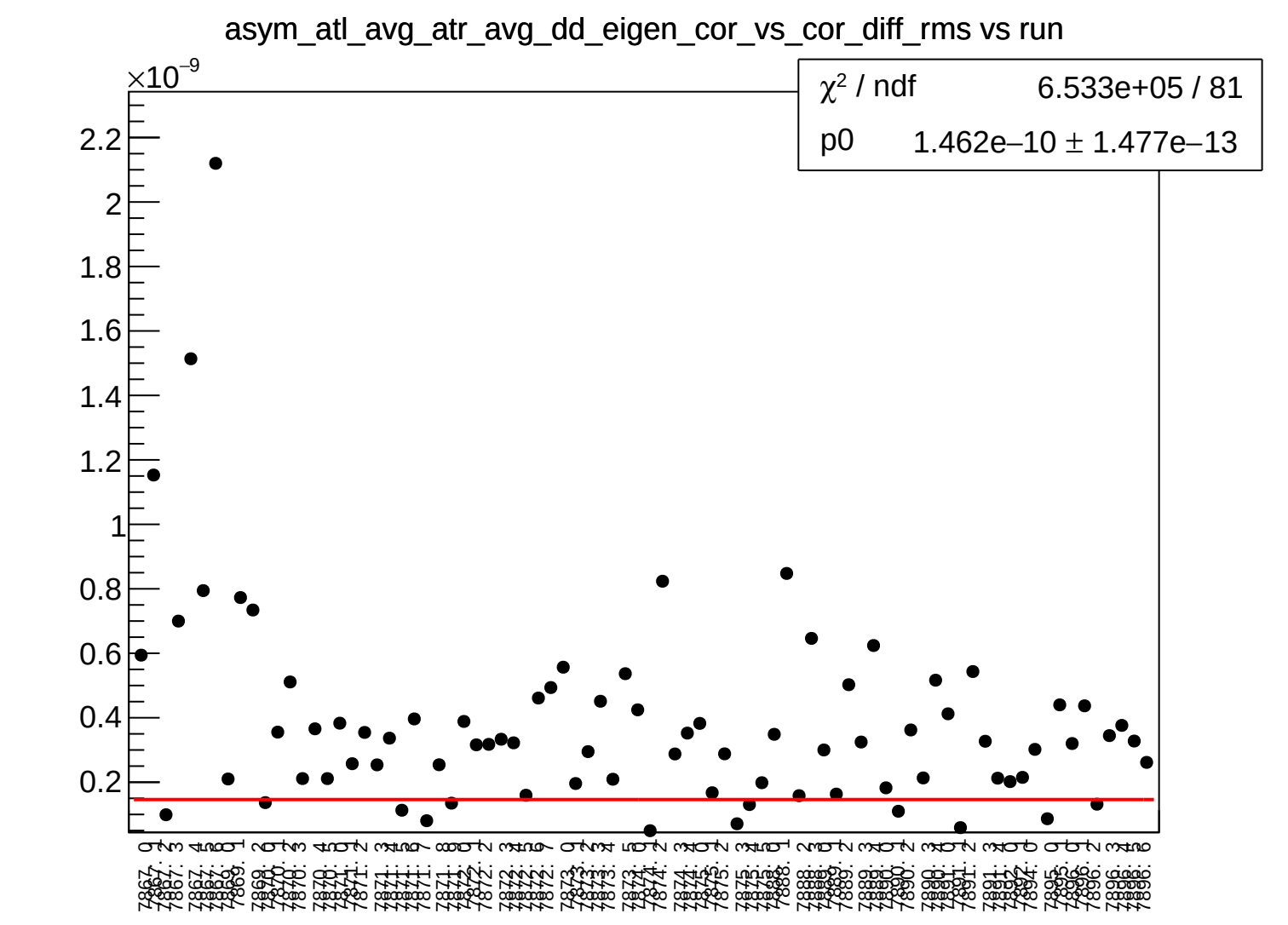

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.00574 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

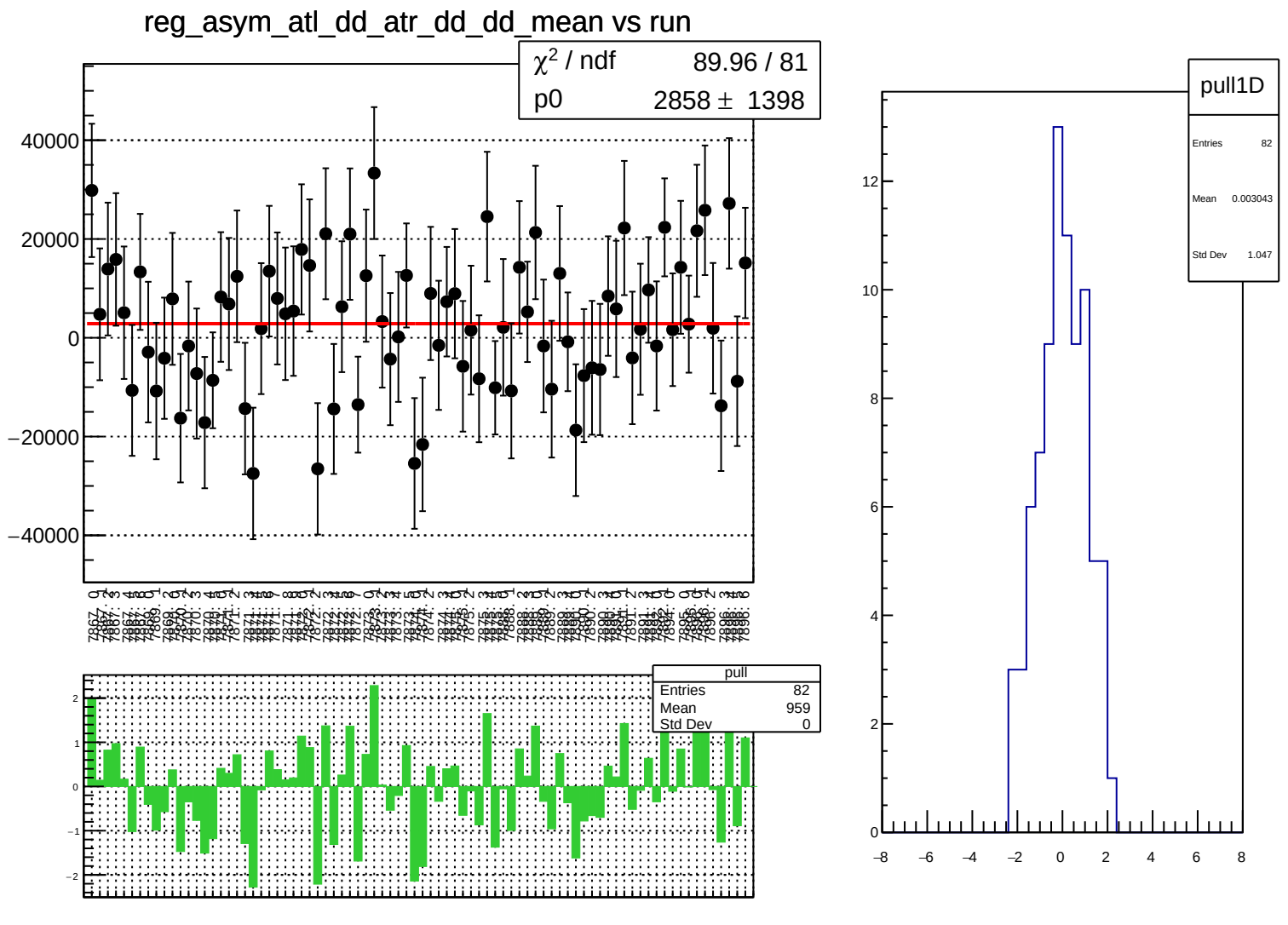

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

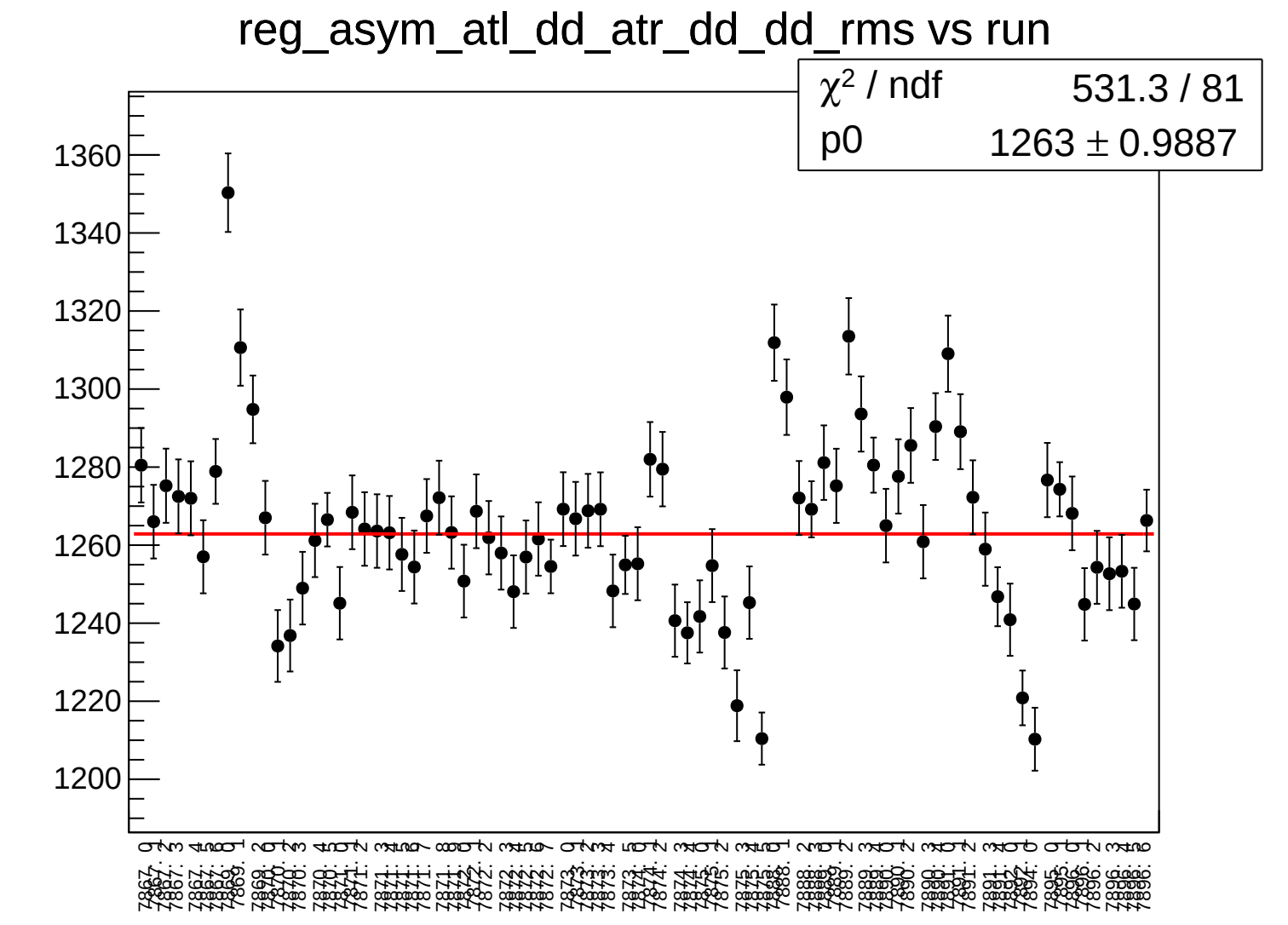

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.00574 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

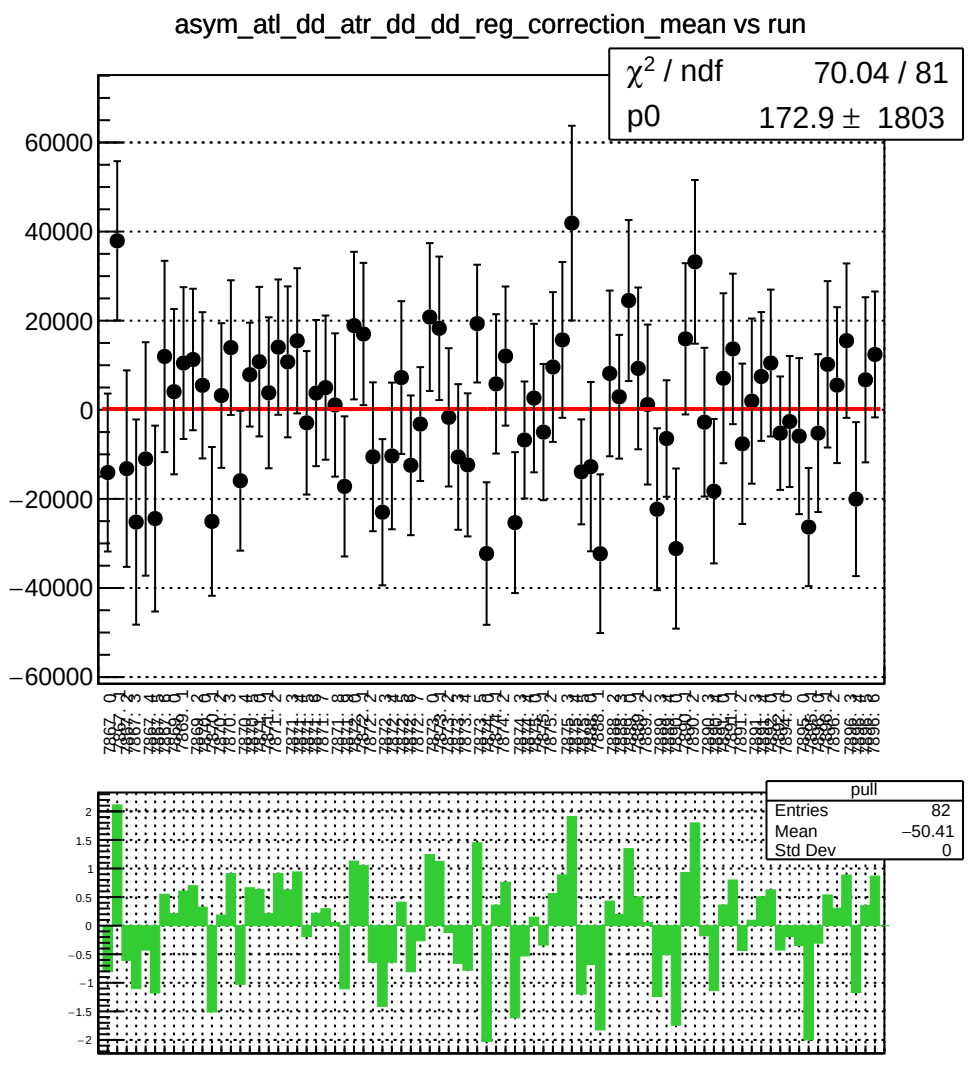

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

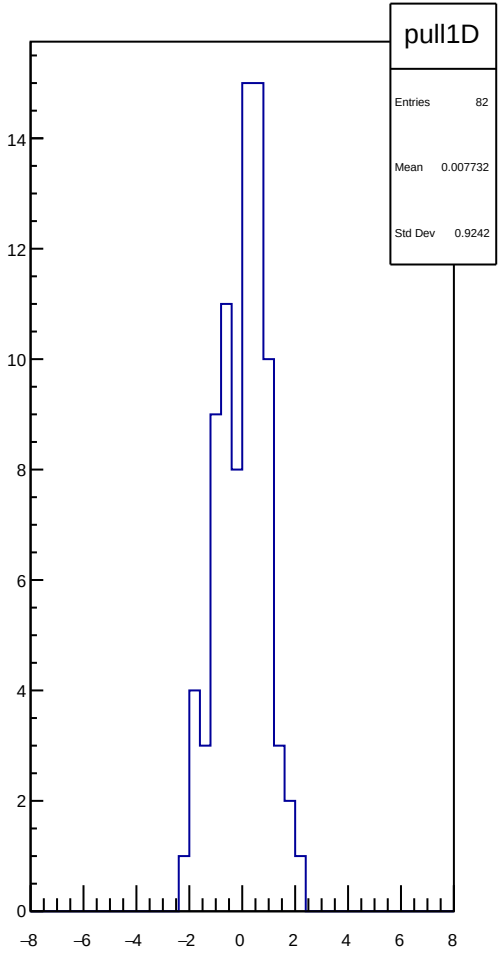

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.51 / 81
p0 −4.454e−15 ± 2.089e−13
pull
Entries 82
Mean −38.81
Std Dev 0
pull1D
Entries 82
Mean 0.0929
Std Dev 0.9741

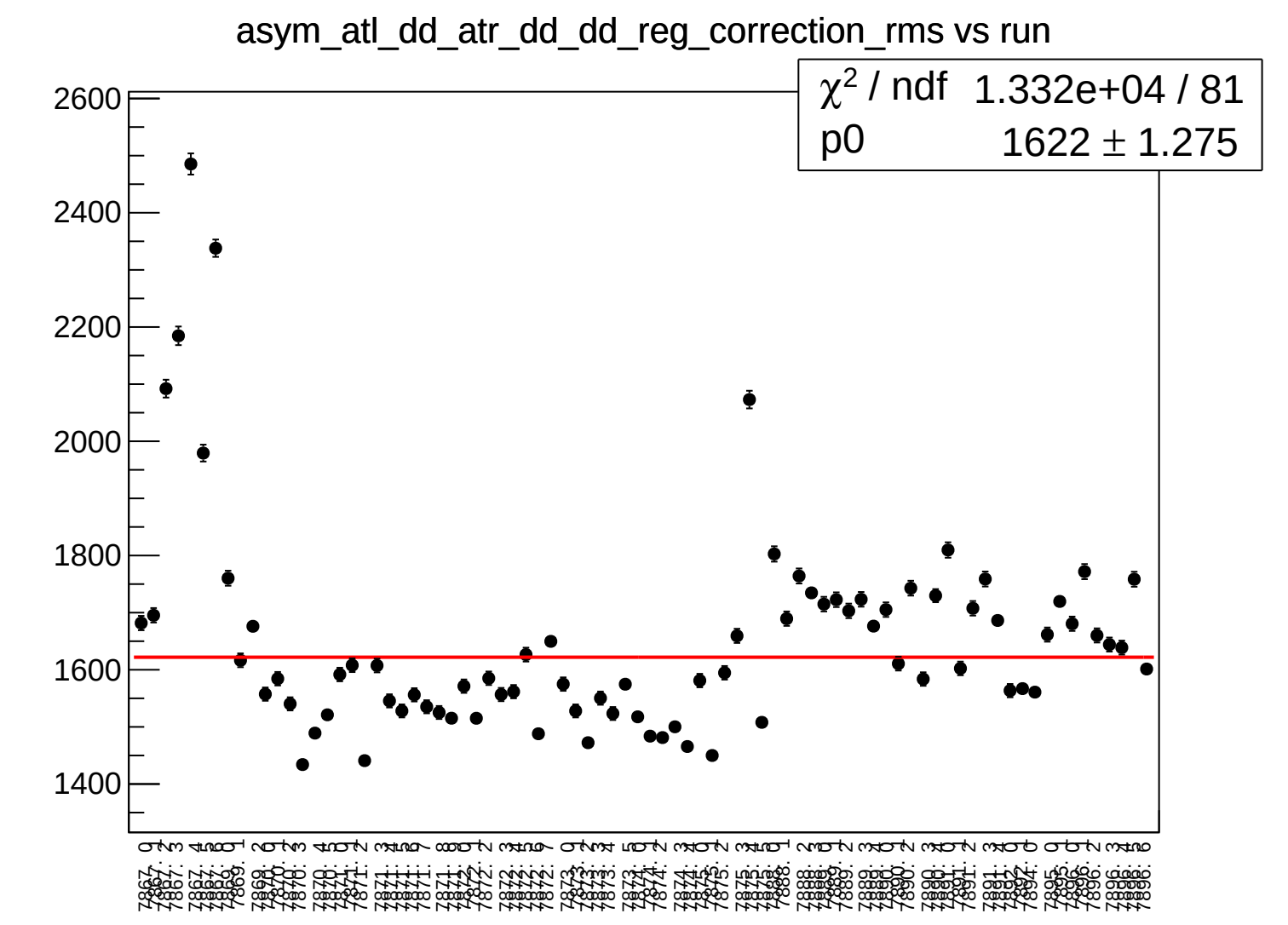

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.533e+05 / 81
p0 1.462e−10 ± 1.477e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

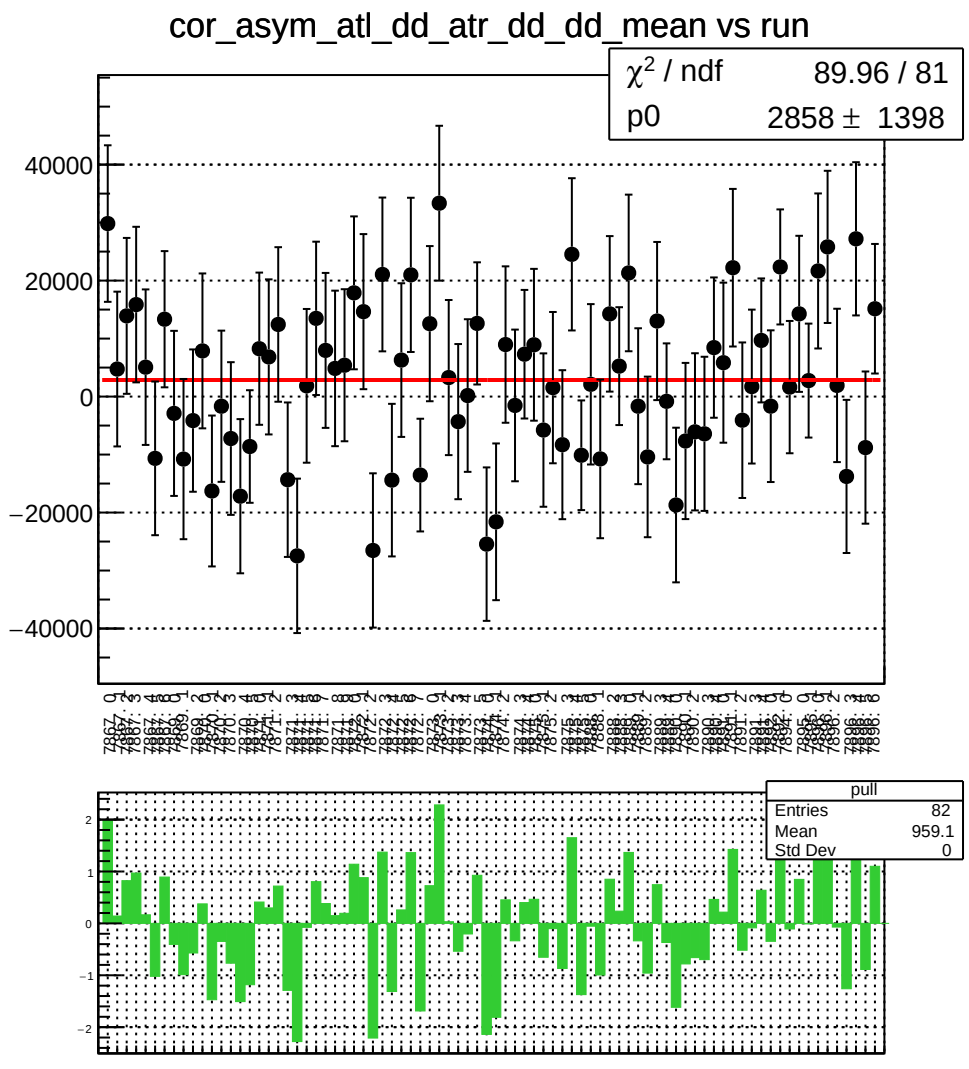

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.96 / 81
p0 2858 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003043
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

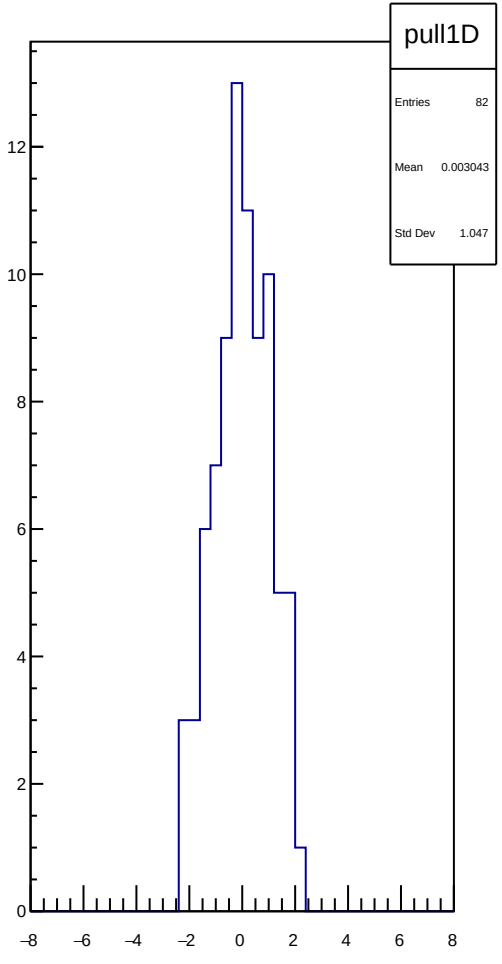

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 531.3 / 81
p0 1263 ± 0.9887
1360
1340
1320
1300
1280
1260
1240
1220
1200

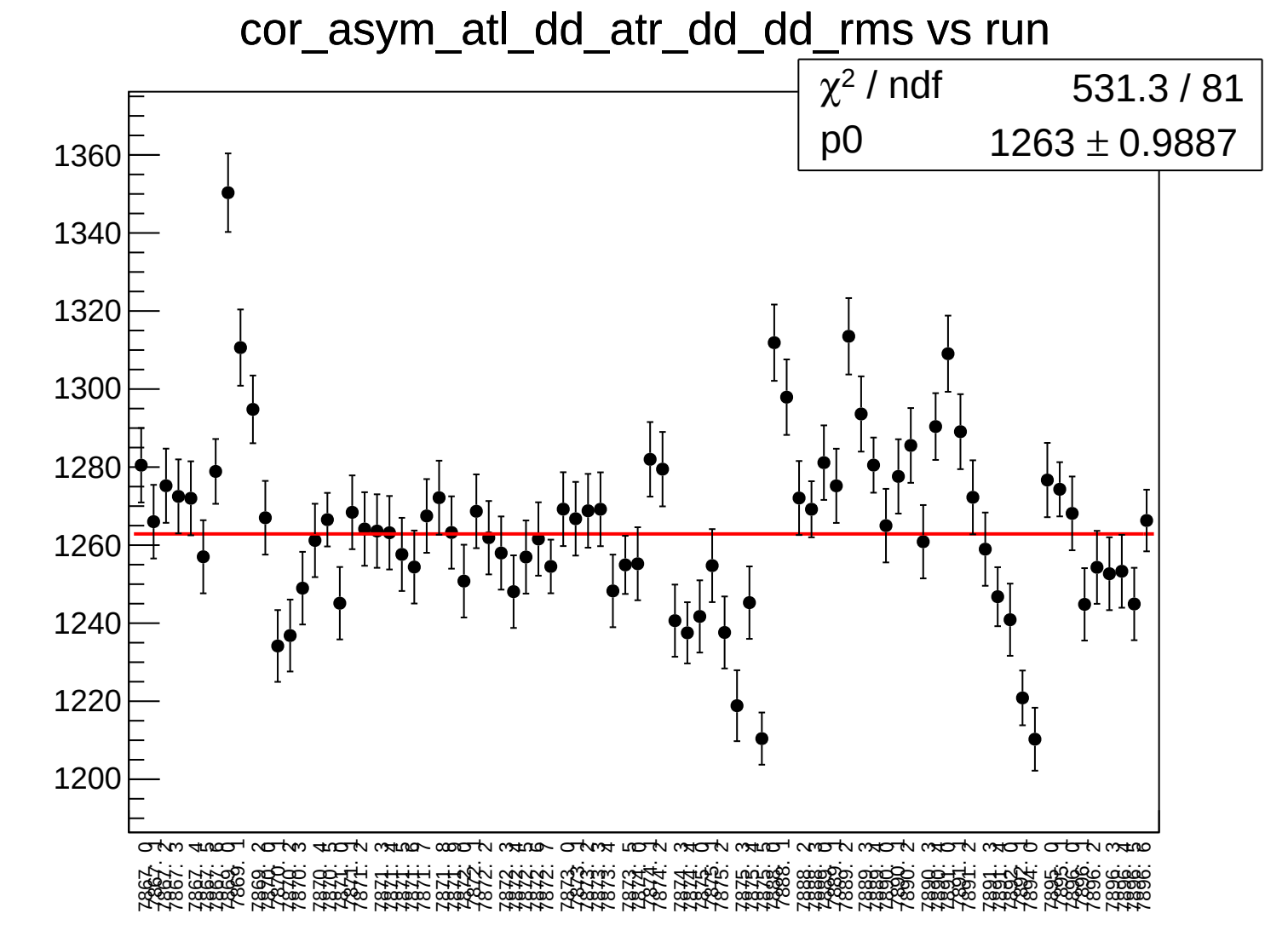

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 70.04 / 81
p0 172.9 ± 1803
pull
Entries 82
Mean −50.41
Std Dev 0

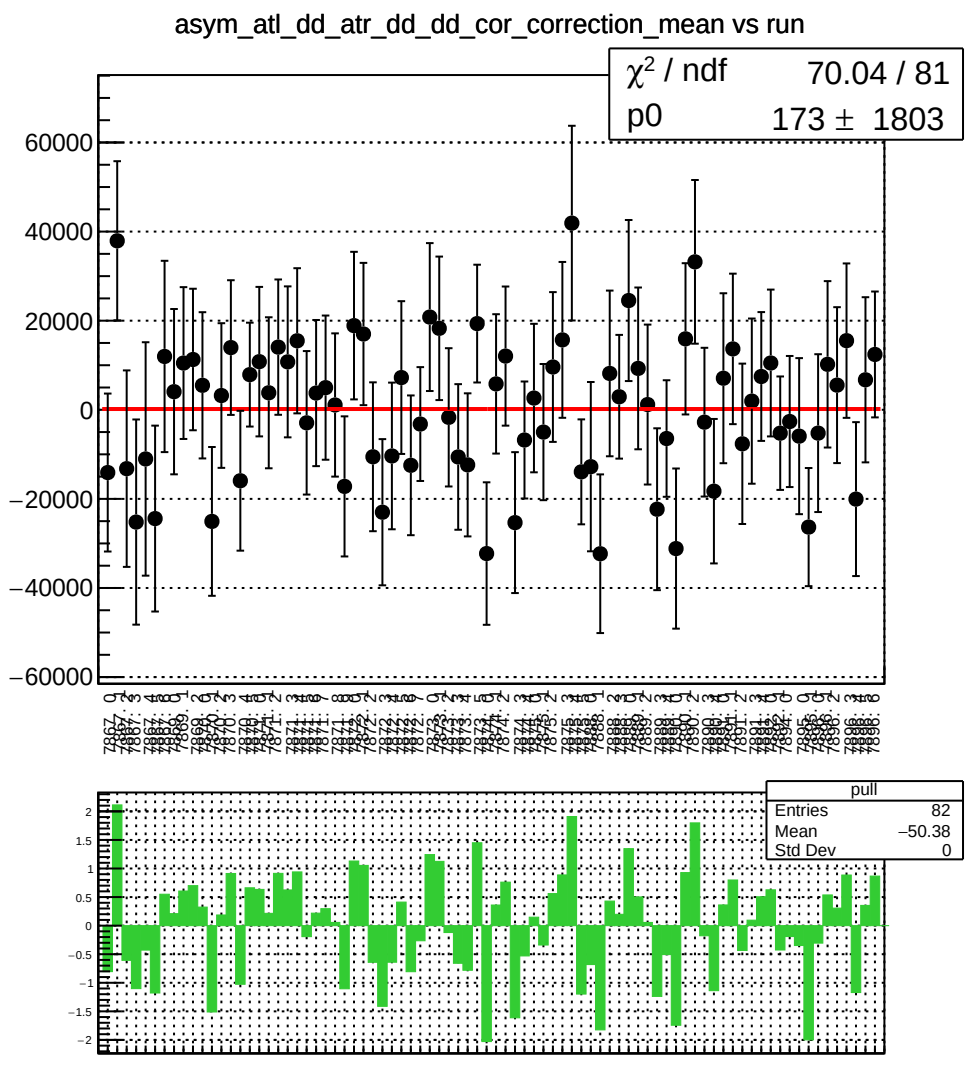

pull1D
Entries 82
Mean 0.007732
Std Dev 0.9242

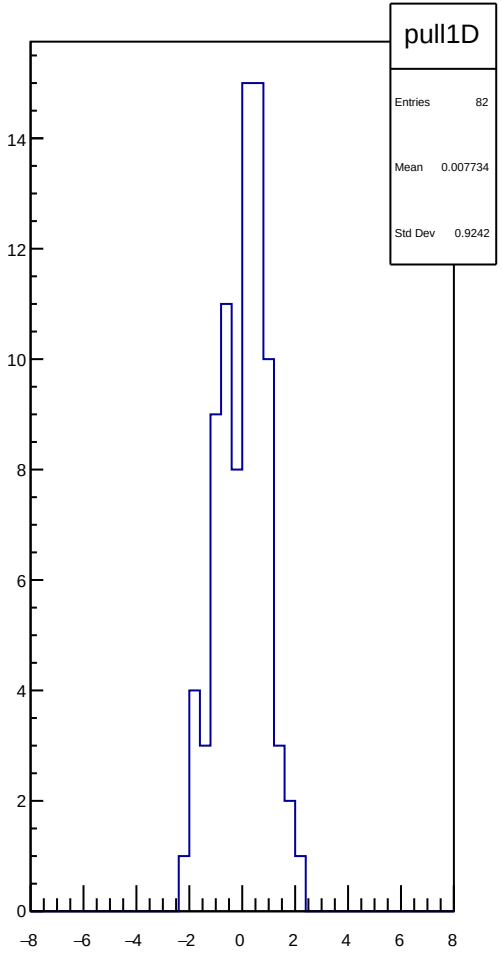

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.332e+04 / 81
p0 1622 ± 1.275
2600
2400
2200
2000
1800
1600
1400

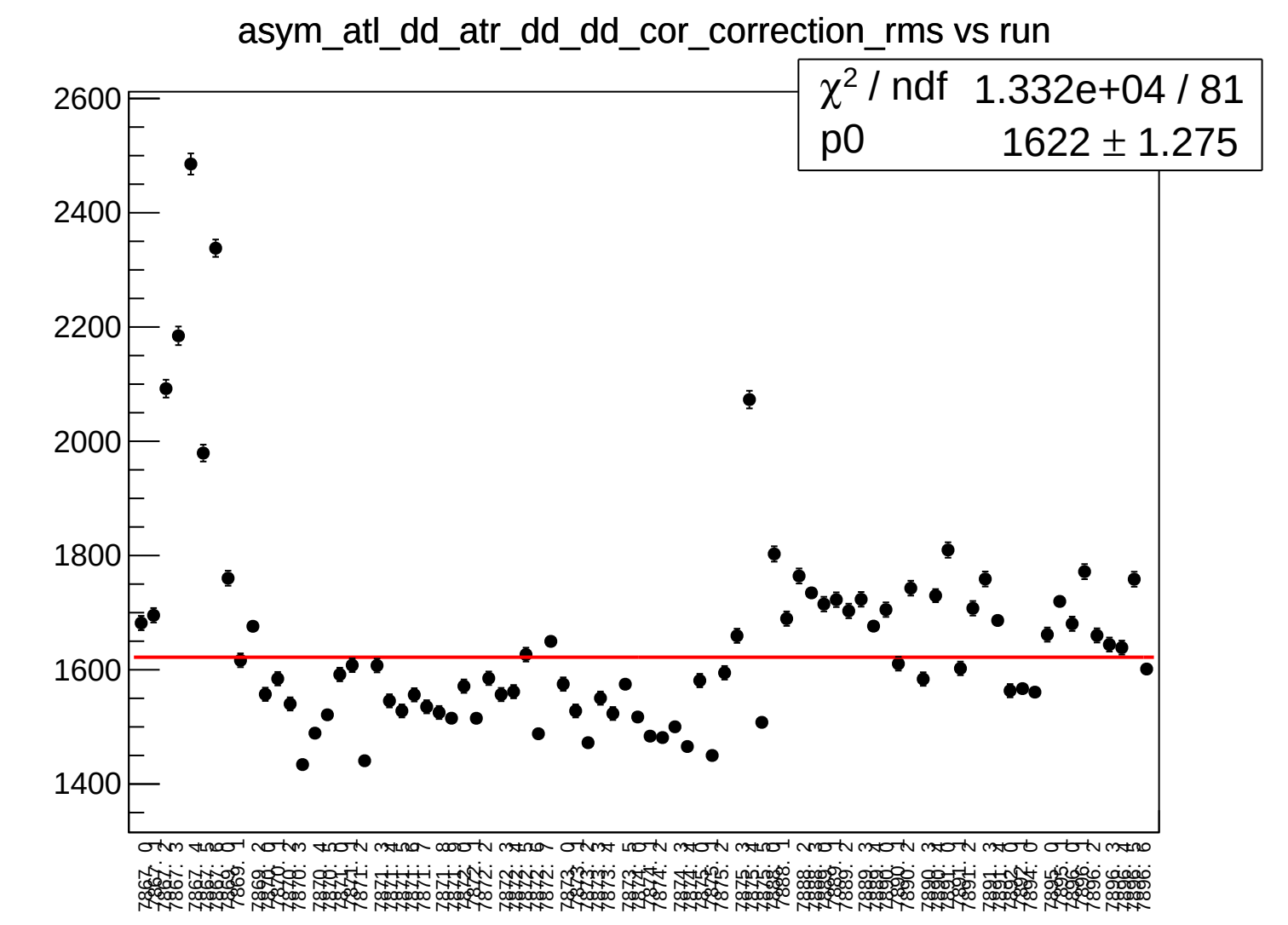

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.96 / 81
p0 2858 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.1
Std Dev 0
2
1
0
−1
−2

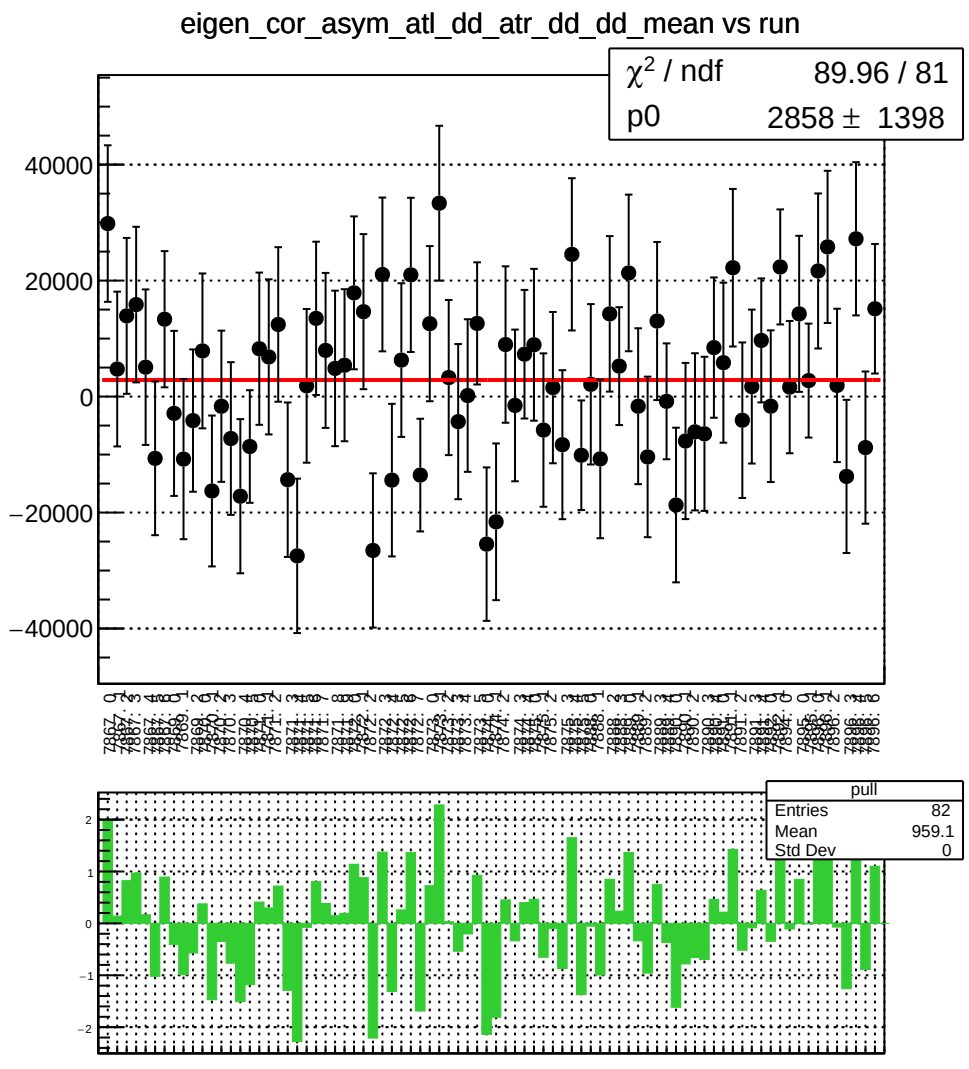

pull1D
Entries 82
Mean 0.003043
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

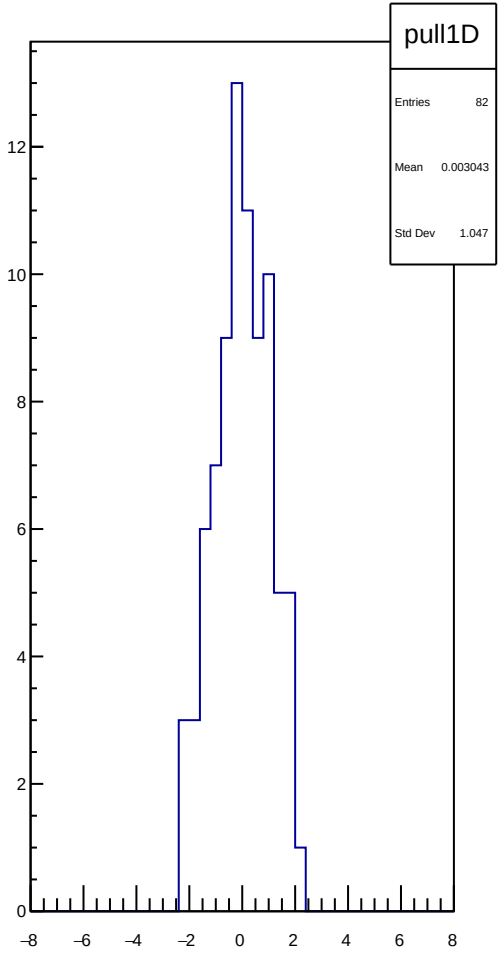

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 531.3 / 81
p0 1263 ± 0.9887
1360
1340
1320
1300
1280
1260
1240
1220
1200

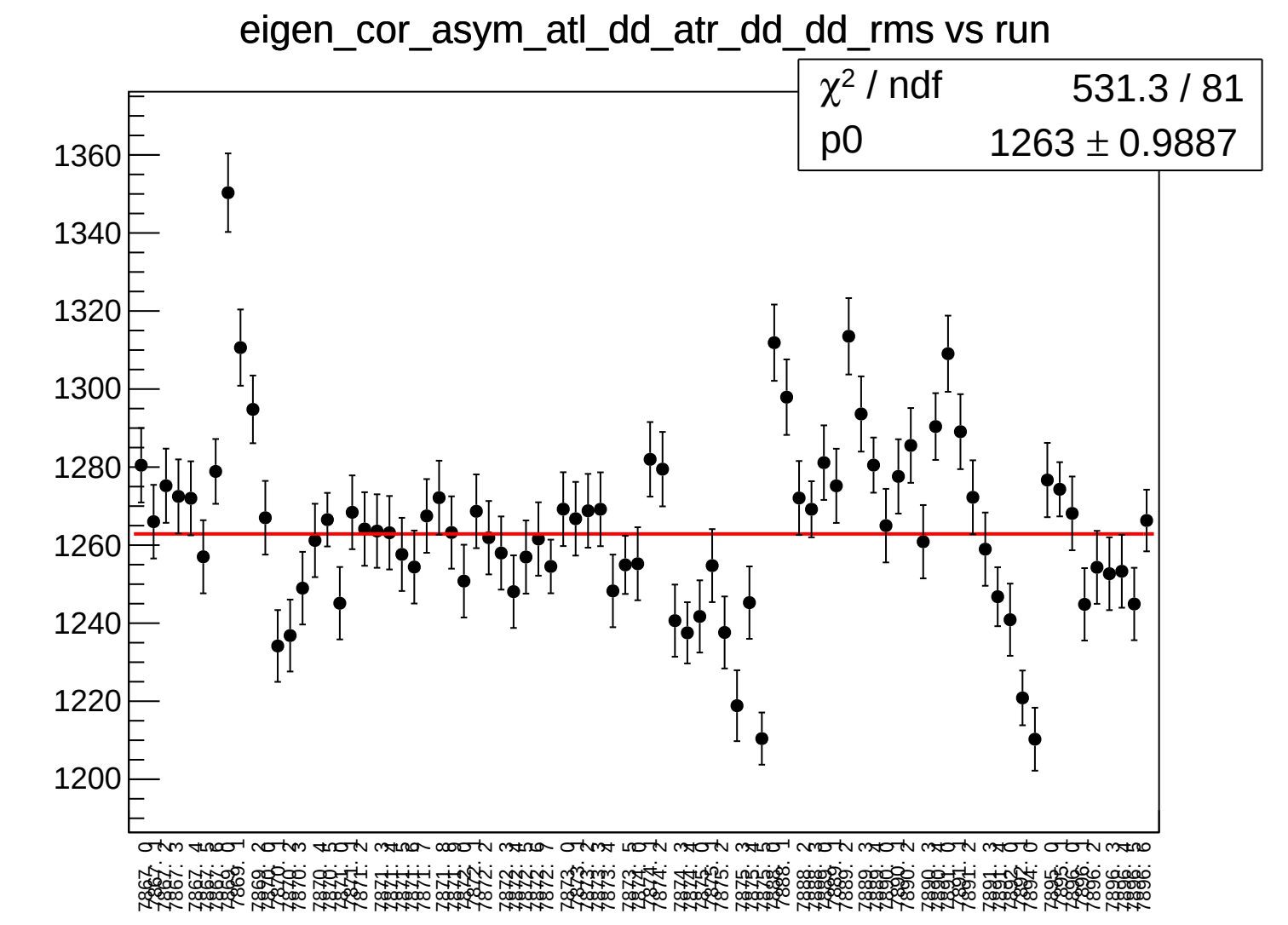

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 70.04 / 81
p0 173 ± 1803
pull
Entries 82
Mean −50.38
Std Dev 0

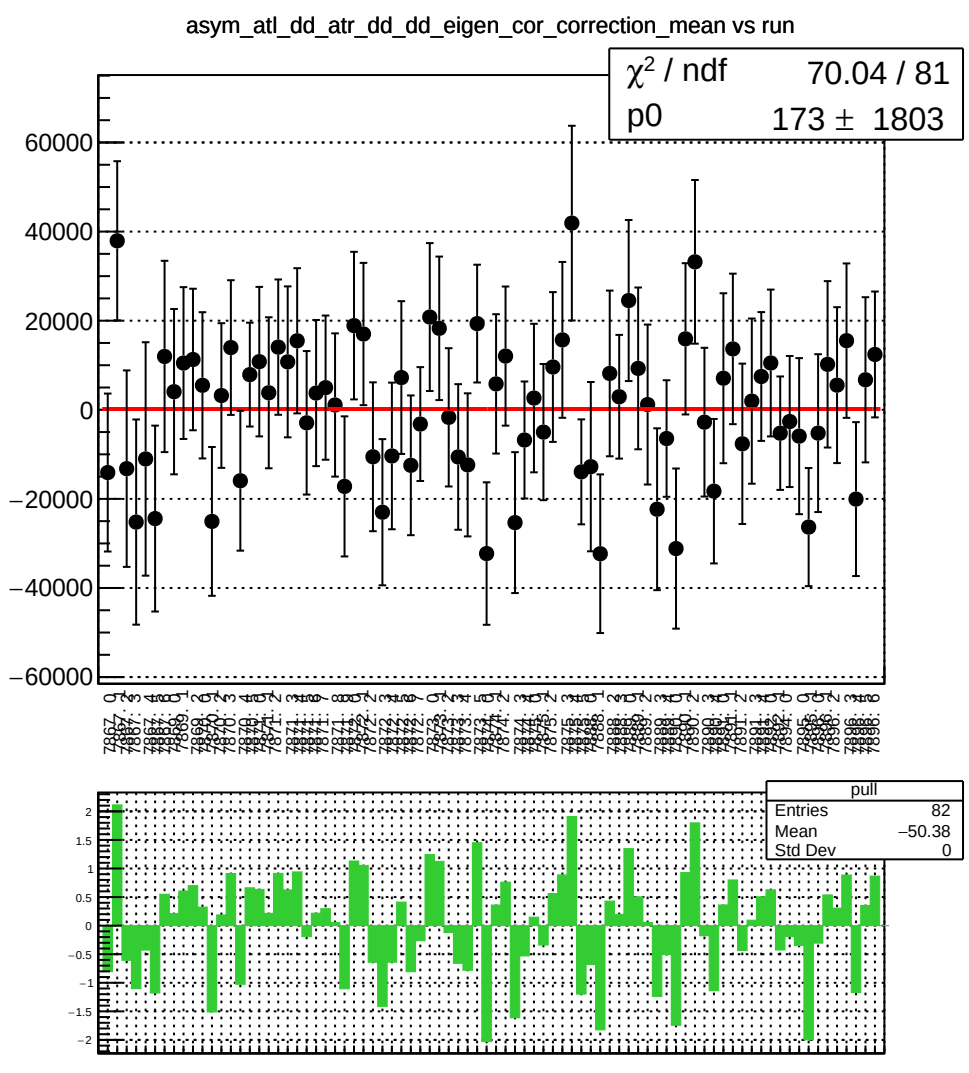

pull1D
Entries 82
Mean 0.007734
Std Dev 0.9242

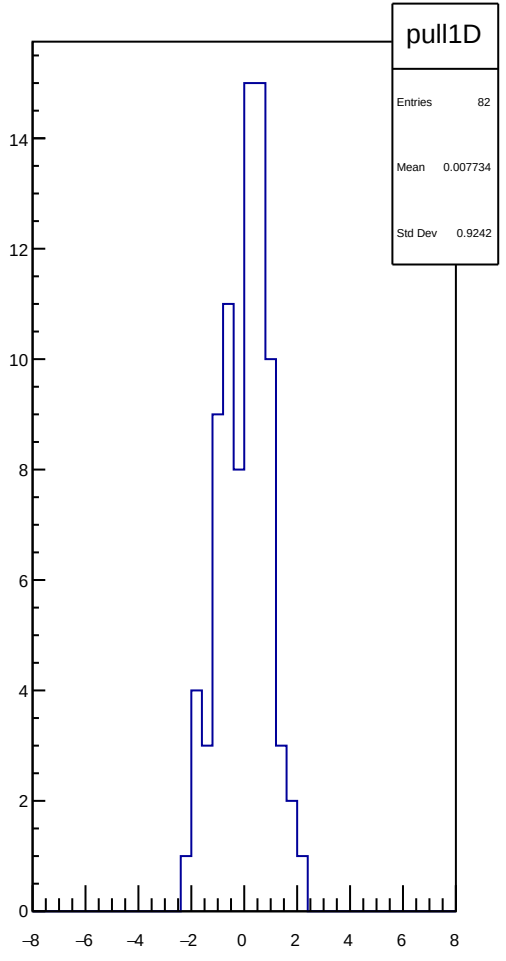

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.332e+04 / 81
p0 1622 ± 1.275
2600
2400
2200
2000
1800
1600
1400

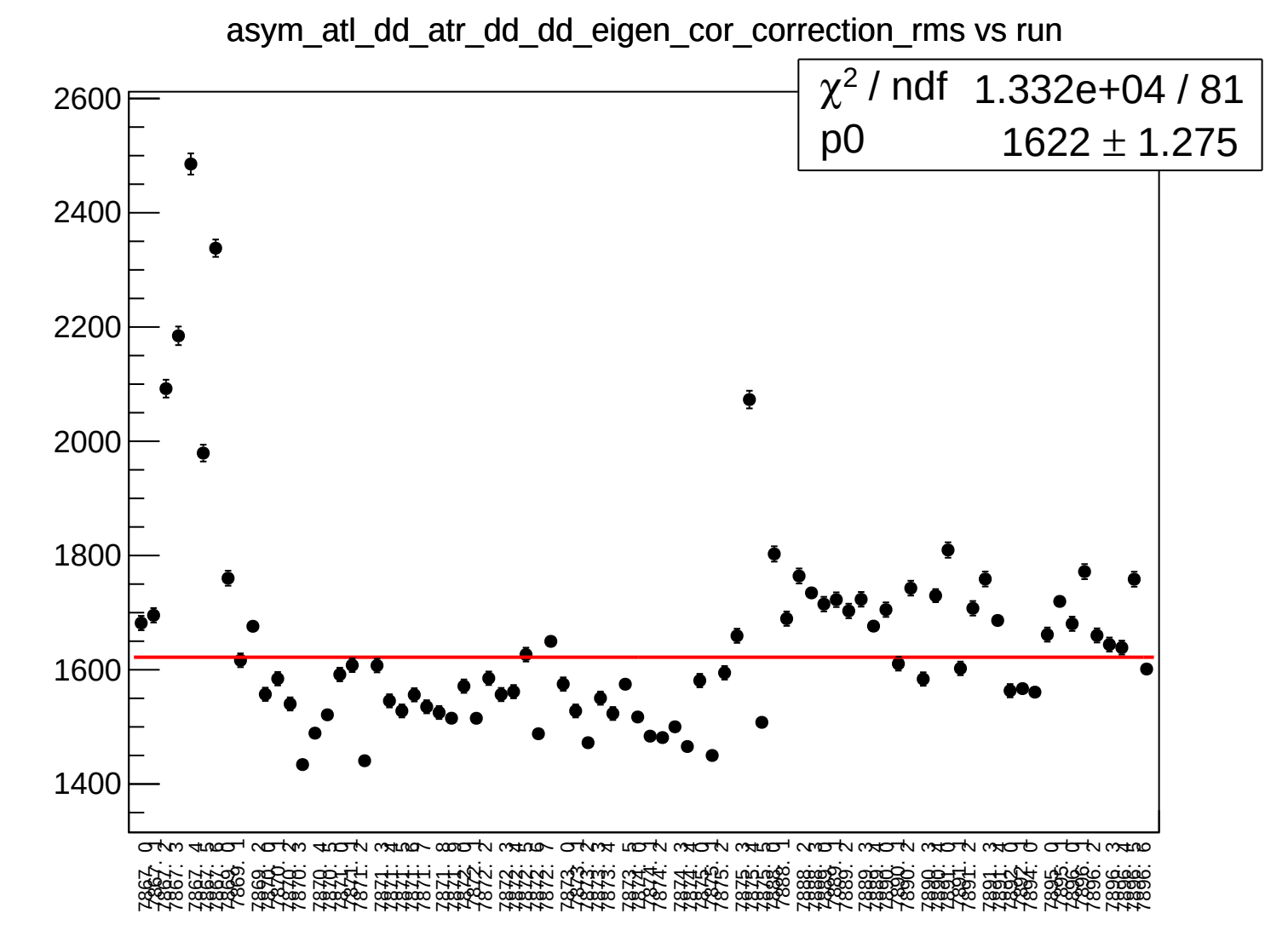

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.96 / 81
p0 2858 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.1
Std Dev 0
2
1
0
−1
−2

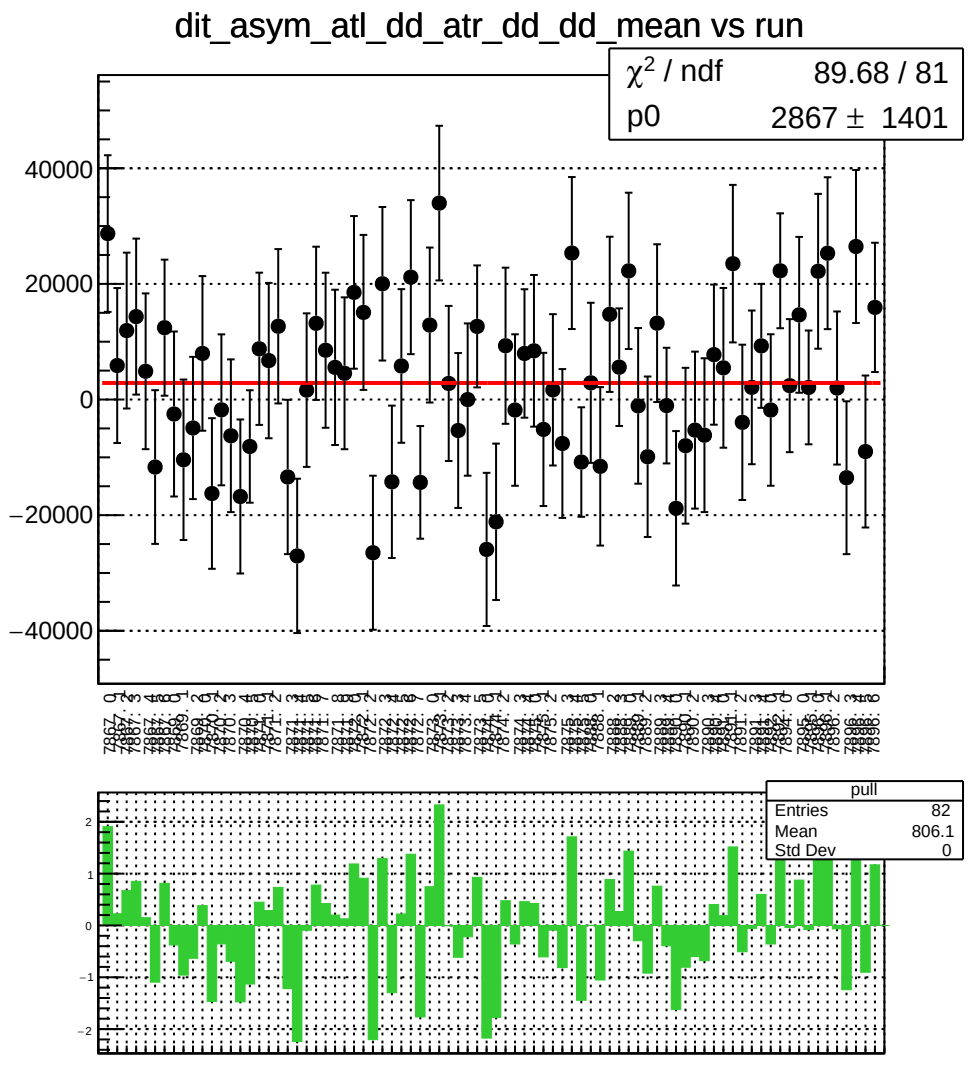

pull1D
Entries 82
Mean 0.003043
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

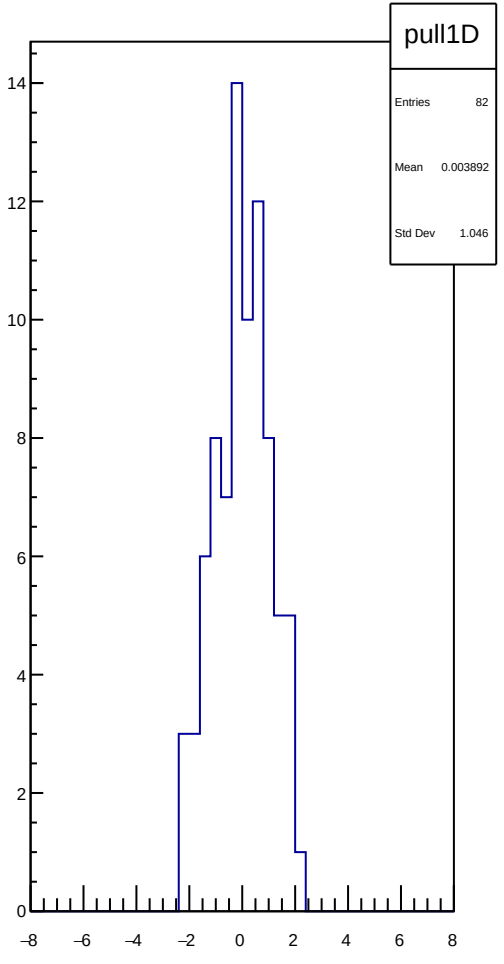

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 531.3 / 81
p0 1263 ± 0.9887
1360
1340
1320
1300
1280
1260
1240
1220
1200

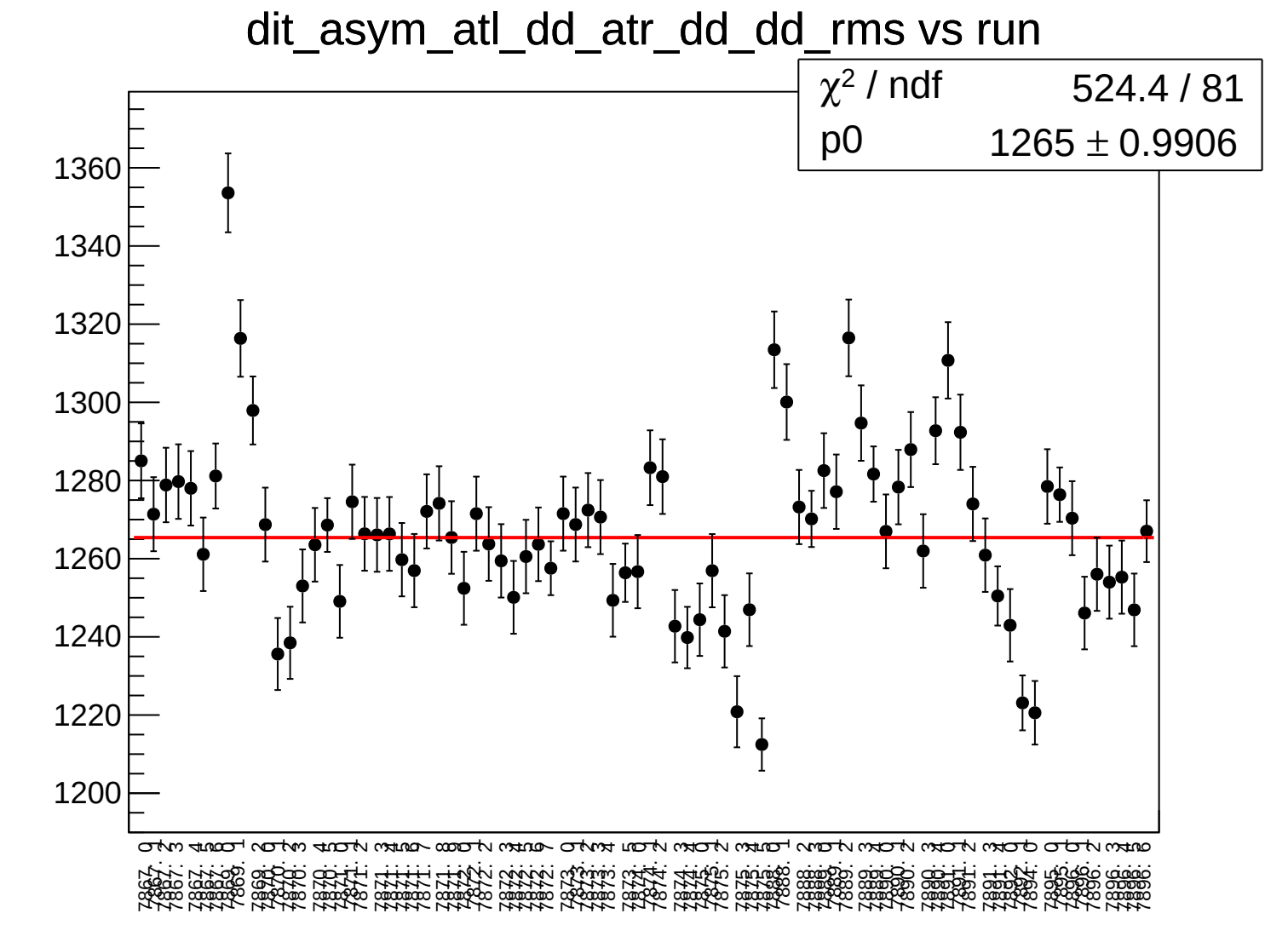

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.04 / 81
p0 173 ± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −50.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

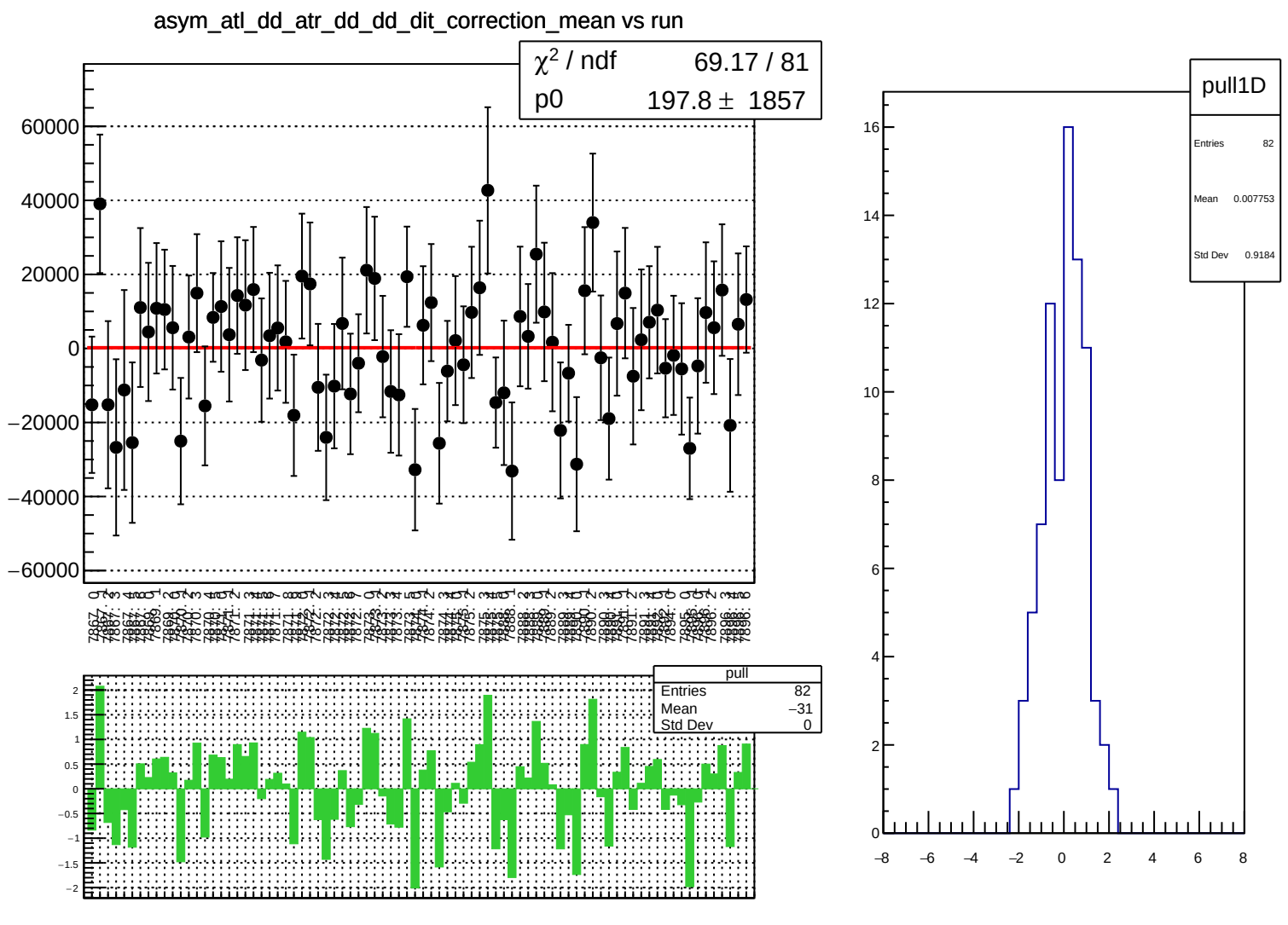

pull1D
Entries 82
Mean 0.007734
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

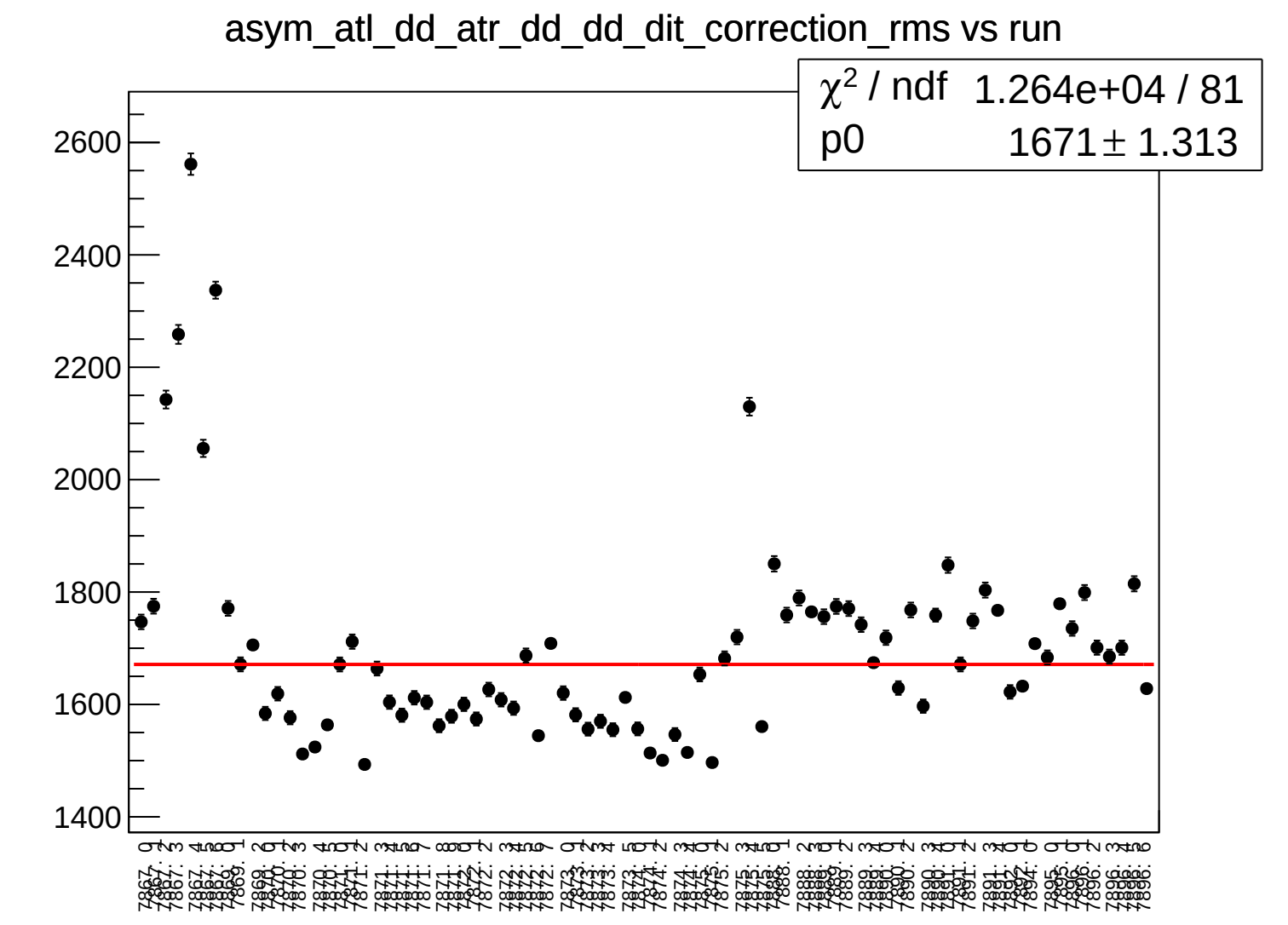

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.332e+04 / 81
p0 1622 ± 1.275
2600
2400
2200
2000
1800
1600
1400

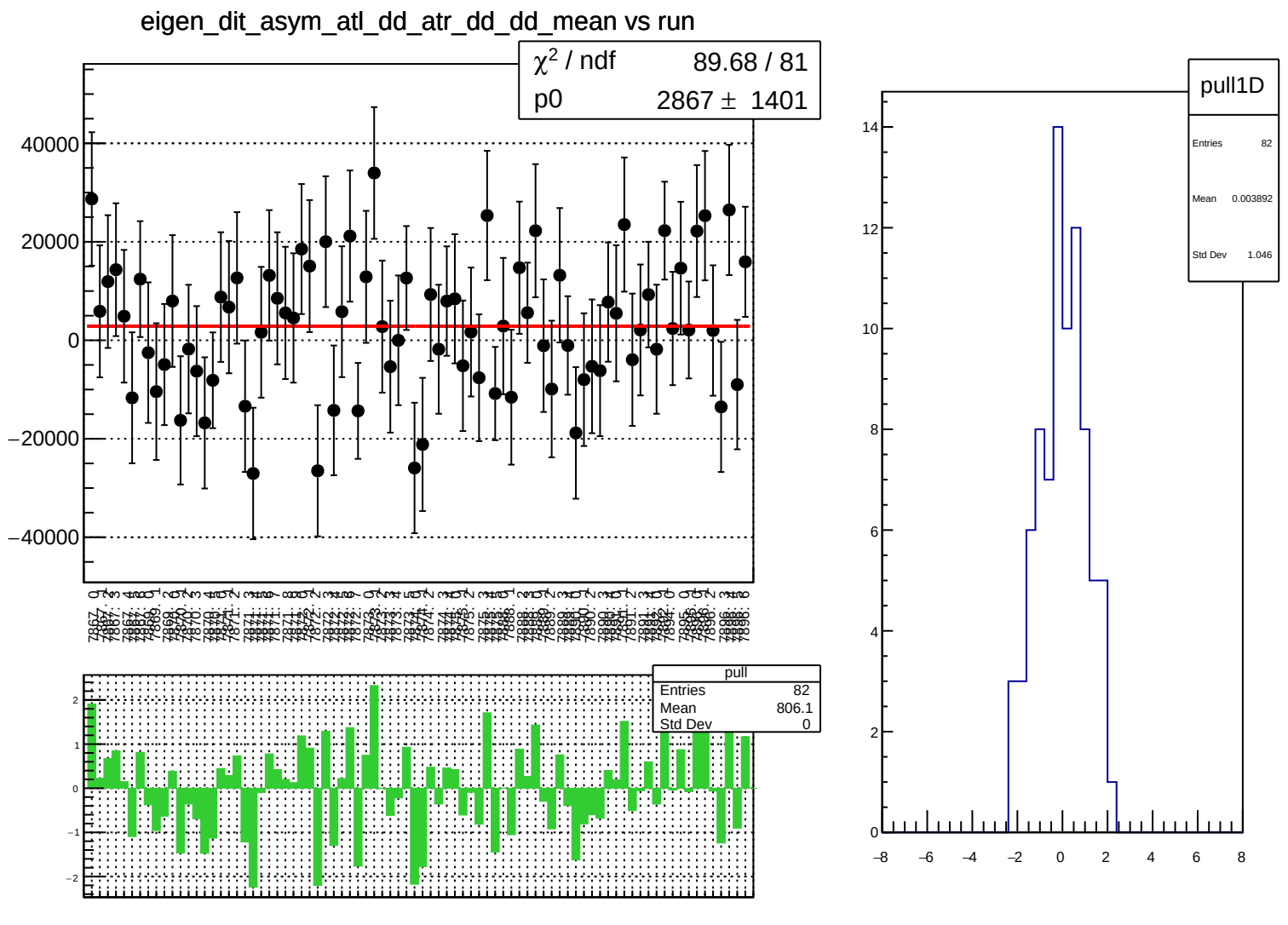

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.68 / 81
p0 2867 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 806.1
Std Dev 0
2
1
0
−1
−2

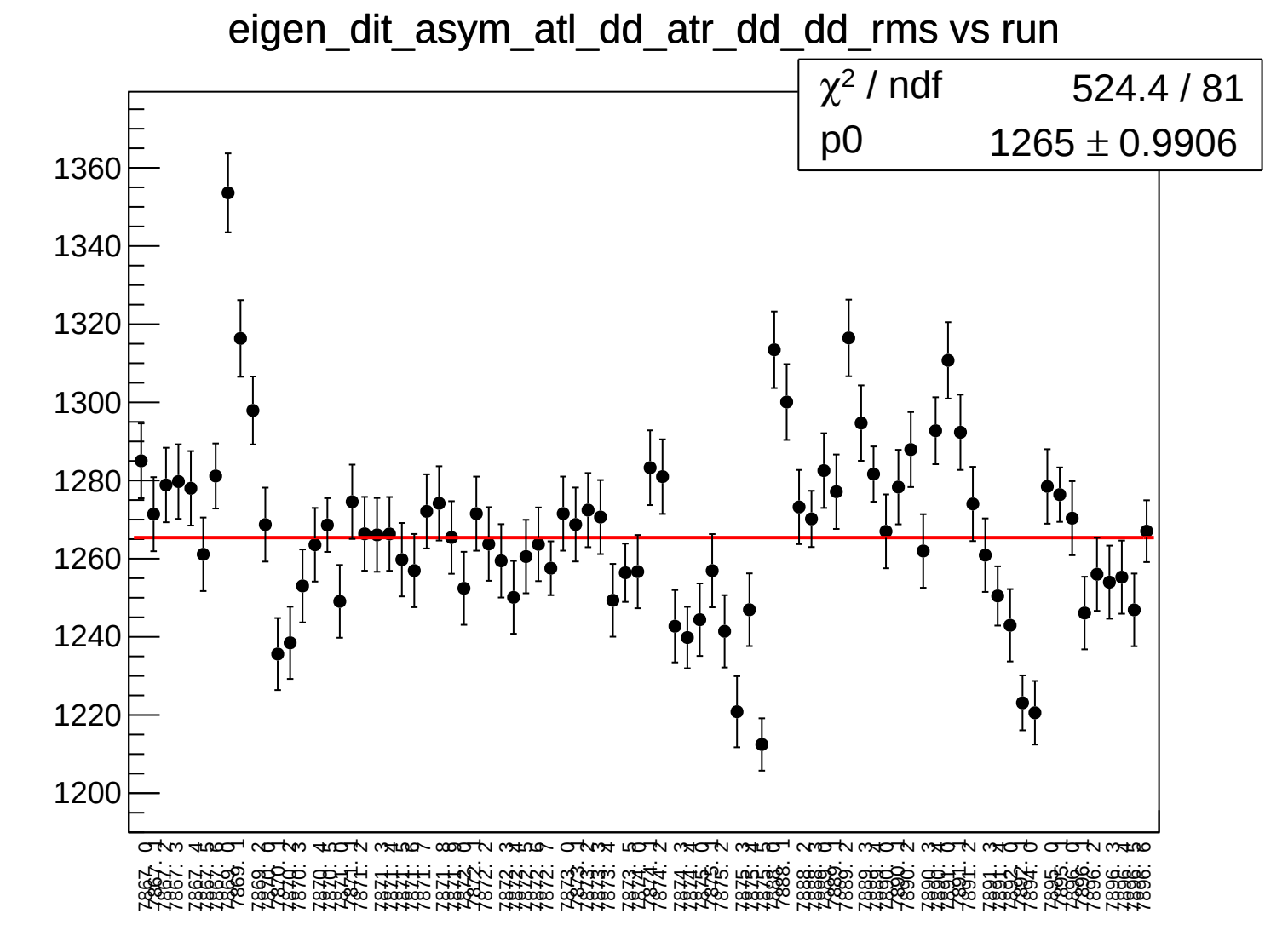

pull1D
Entries 82
Mean 0.003892
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

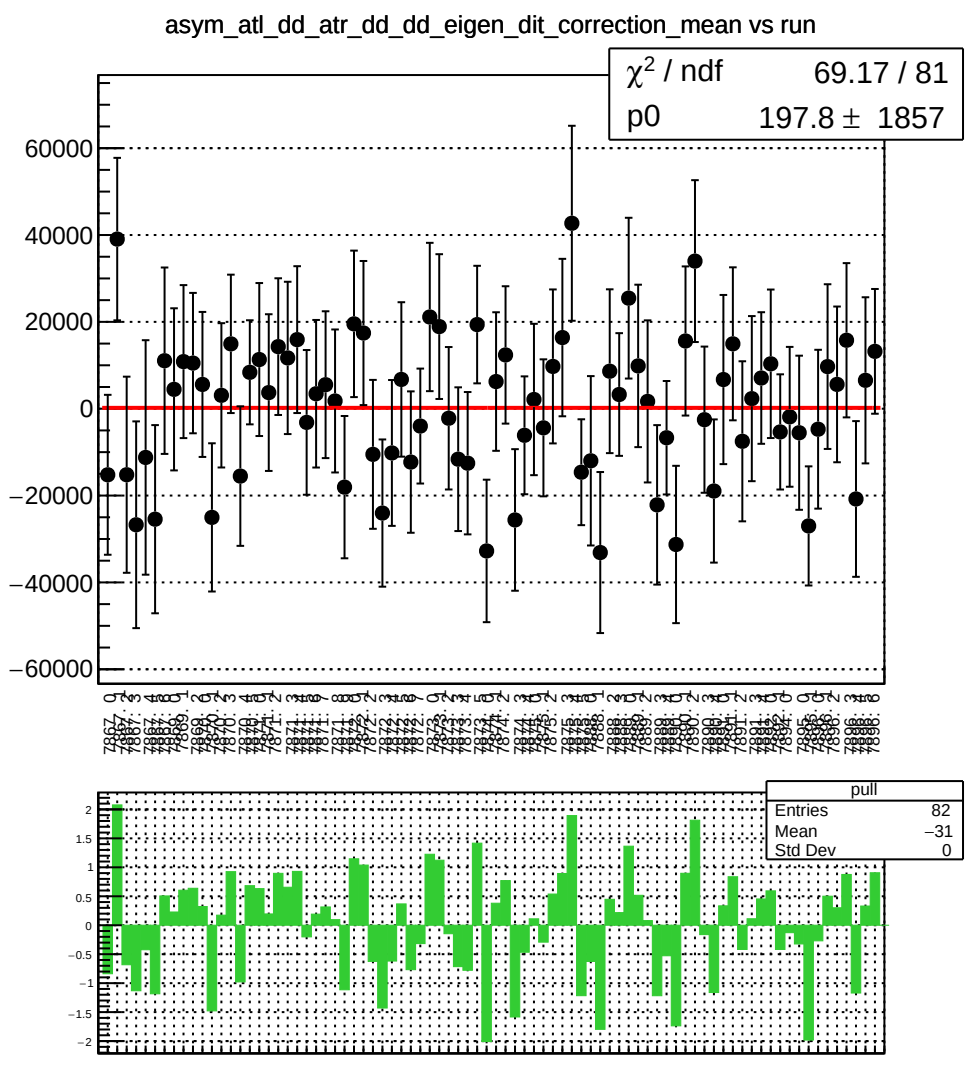

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 524.4 / 81
p0 1265 ± 0.9906
1360
1340
1320
1300
1280
1260
1240
1220
1200

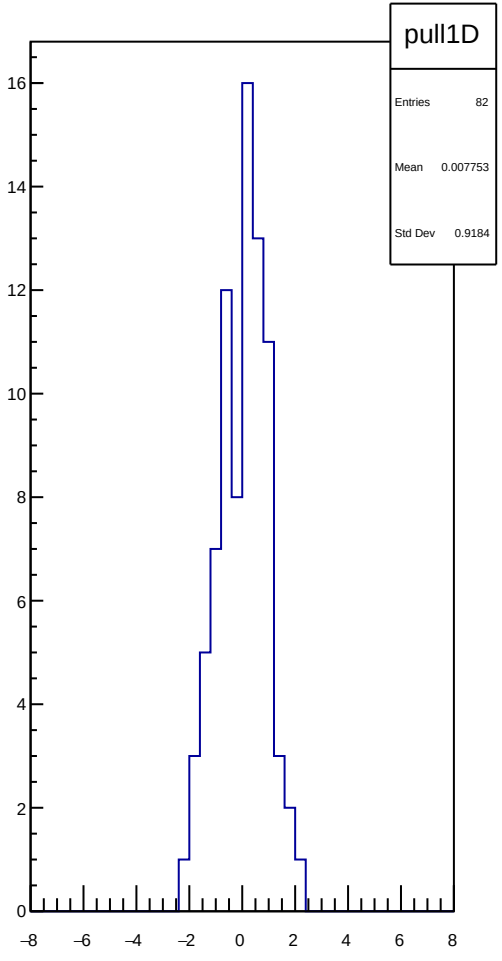

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 69.17 / 81
p0 197.8 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.007753
Std Dev 0.9184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

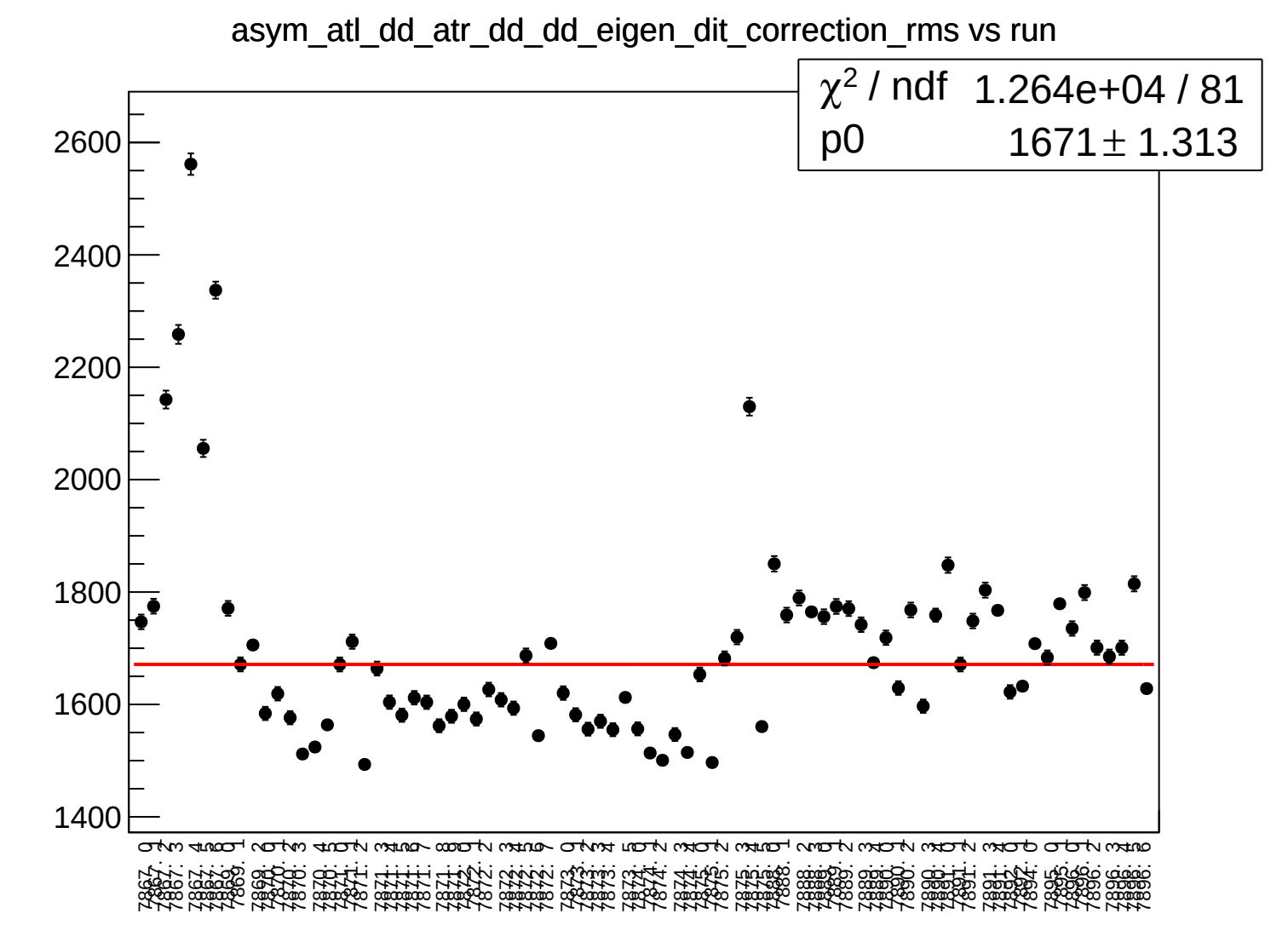

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.264e+04 / 81
p0 1671 ± 1.313
2600
2400
2200
2000
1800
1600
1400

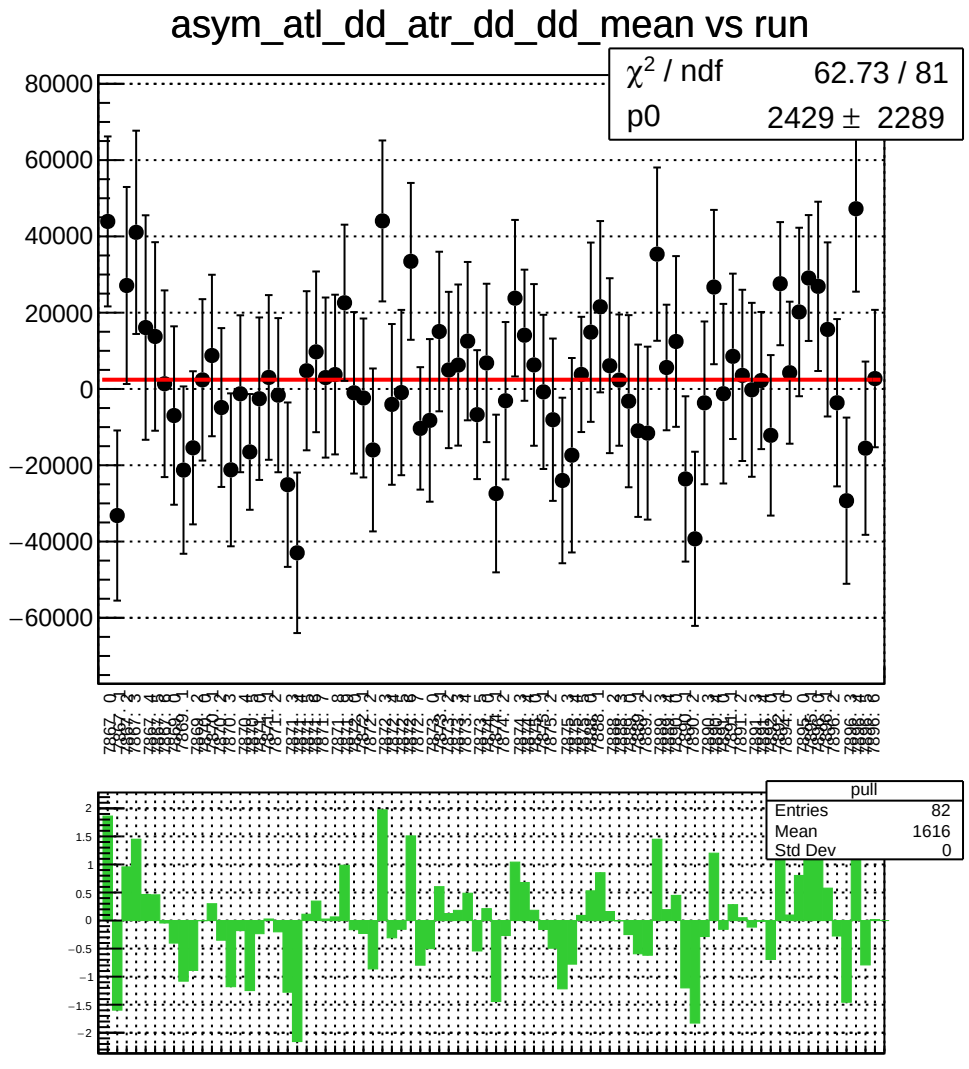

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.68 / 81
p0 2867 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 806.1
Std Dev 0
pull1D
Entries 82
Mean 0.003892
Std Dev 1.046

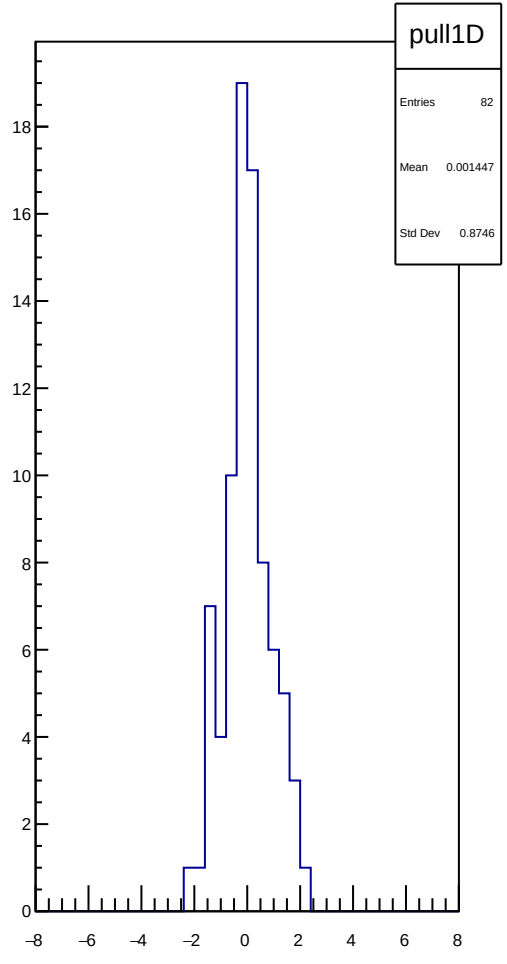

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 524.4 / 81
p0 1265 ± 0.9906
1360
1340
1320
1300
1280
1260
1240
1220
1200

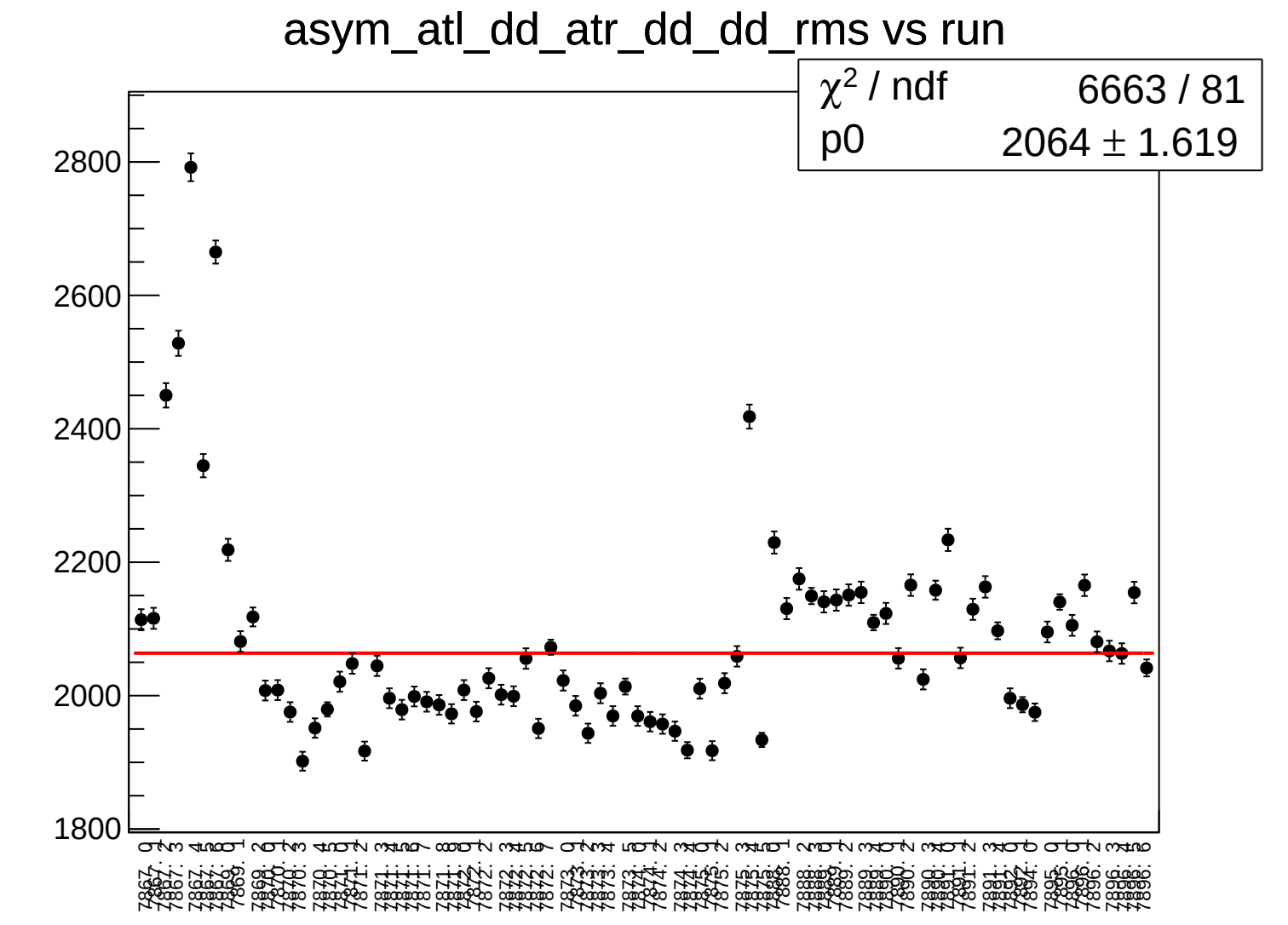

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.17 / 81
p0 197.8 ± 1857
pull
Entries 82
Mean −31
Std Dev 0

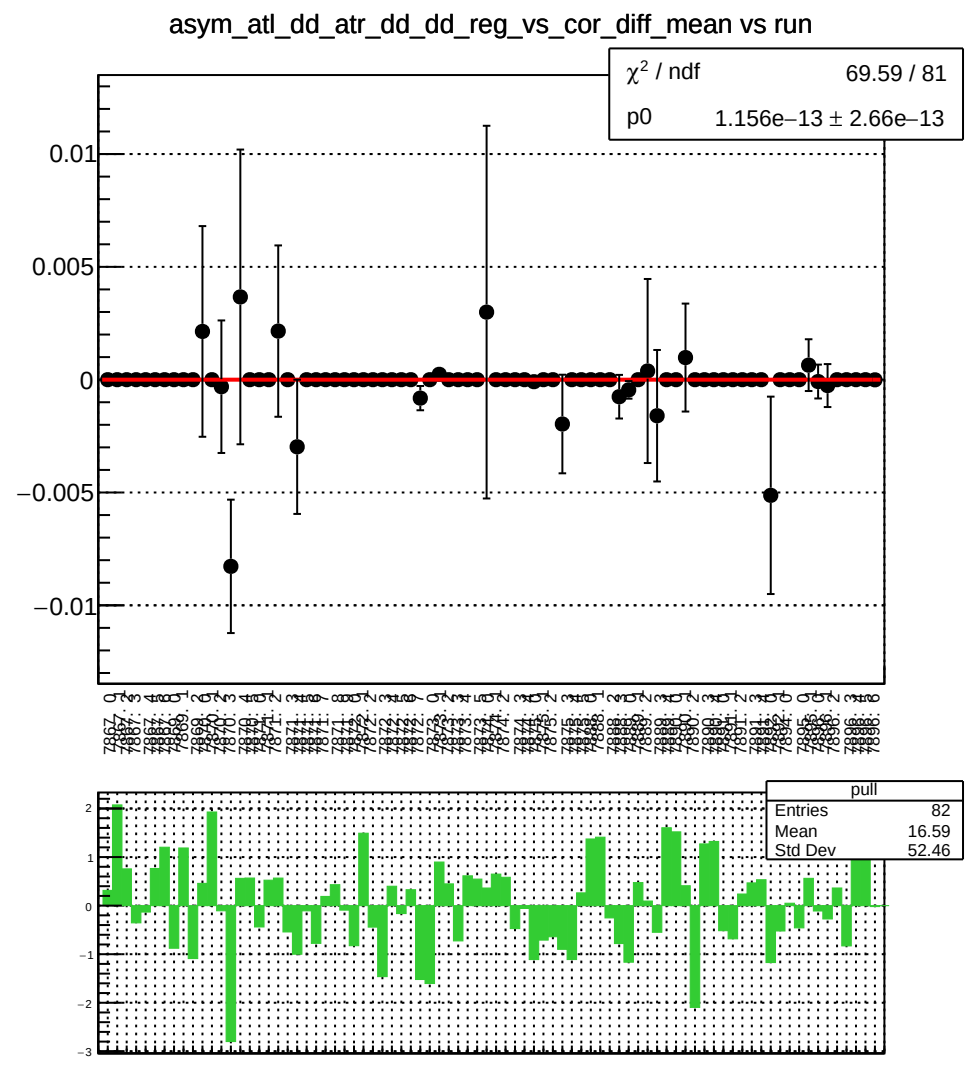

pull1D
Entries 82
Mean 0.007753
Std Dev 0.9184

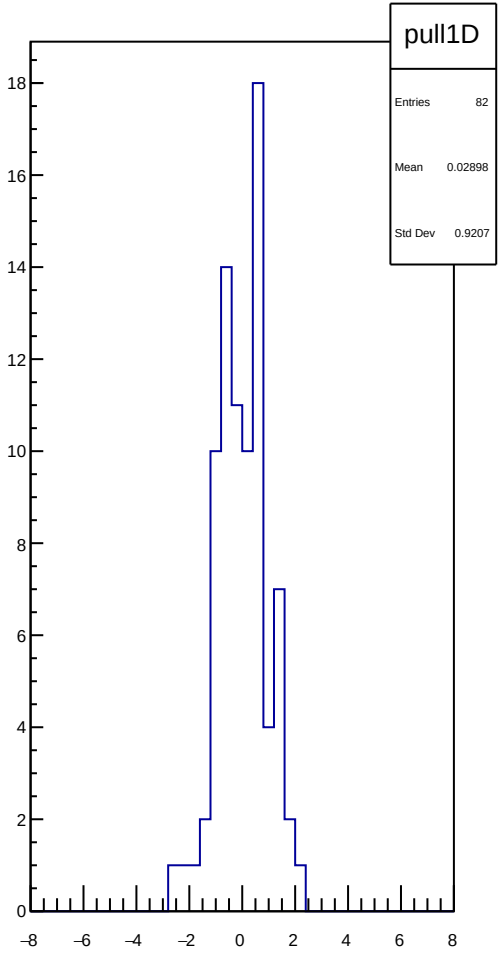

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.264e+04 / 81
p0 1671 ± 1.313
2600
2400
2200
2000
1800
1600
1400

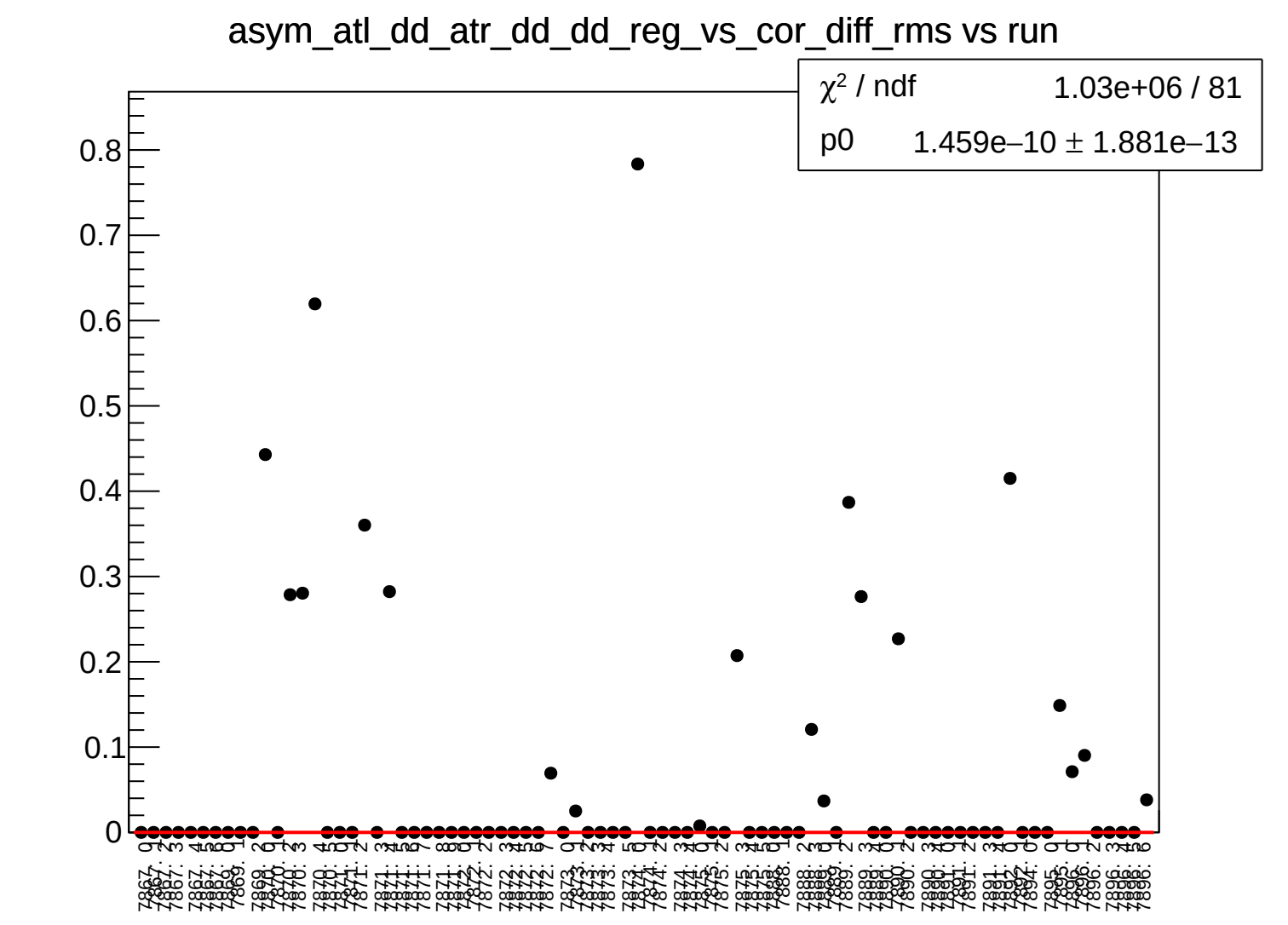

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 62.73 / 81
p0 2429 ± 2289
pull
Entries 82
Mean 1616
Std Dev 0

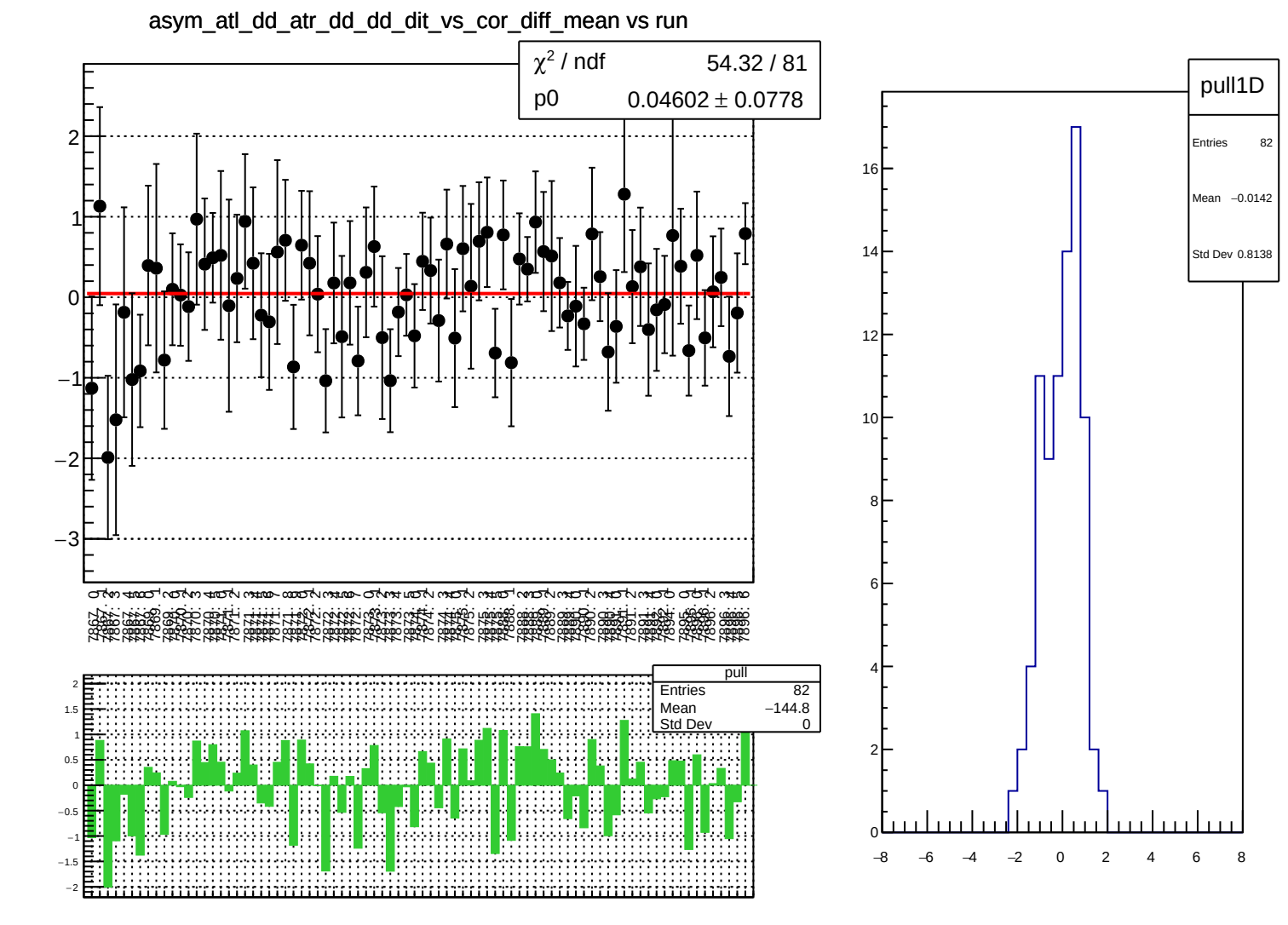

pull1D
Entries 82
Mean 0.001447
Std Dev 0.8746

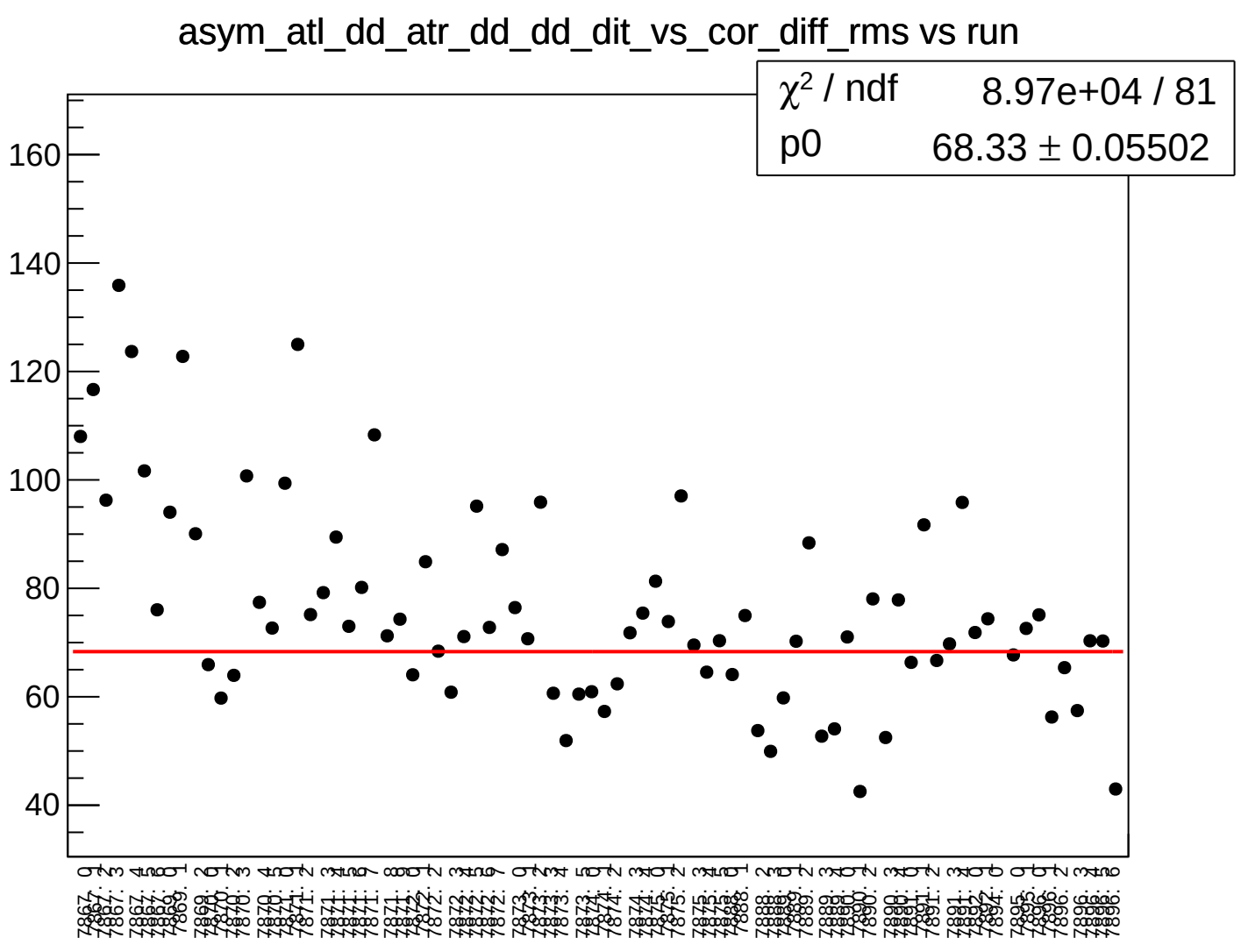

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6663 / 81
p0 2064 ± 1.619
2800
2600
2400
2200
2000
1800

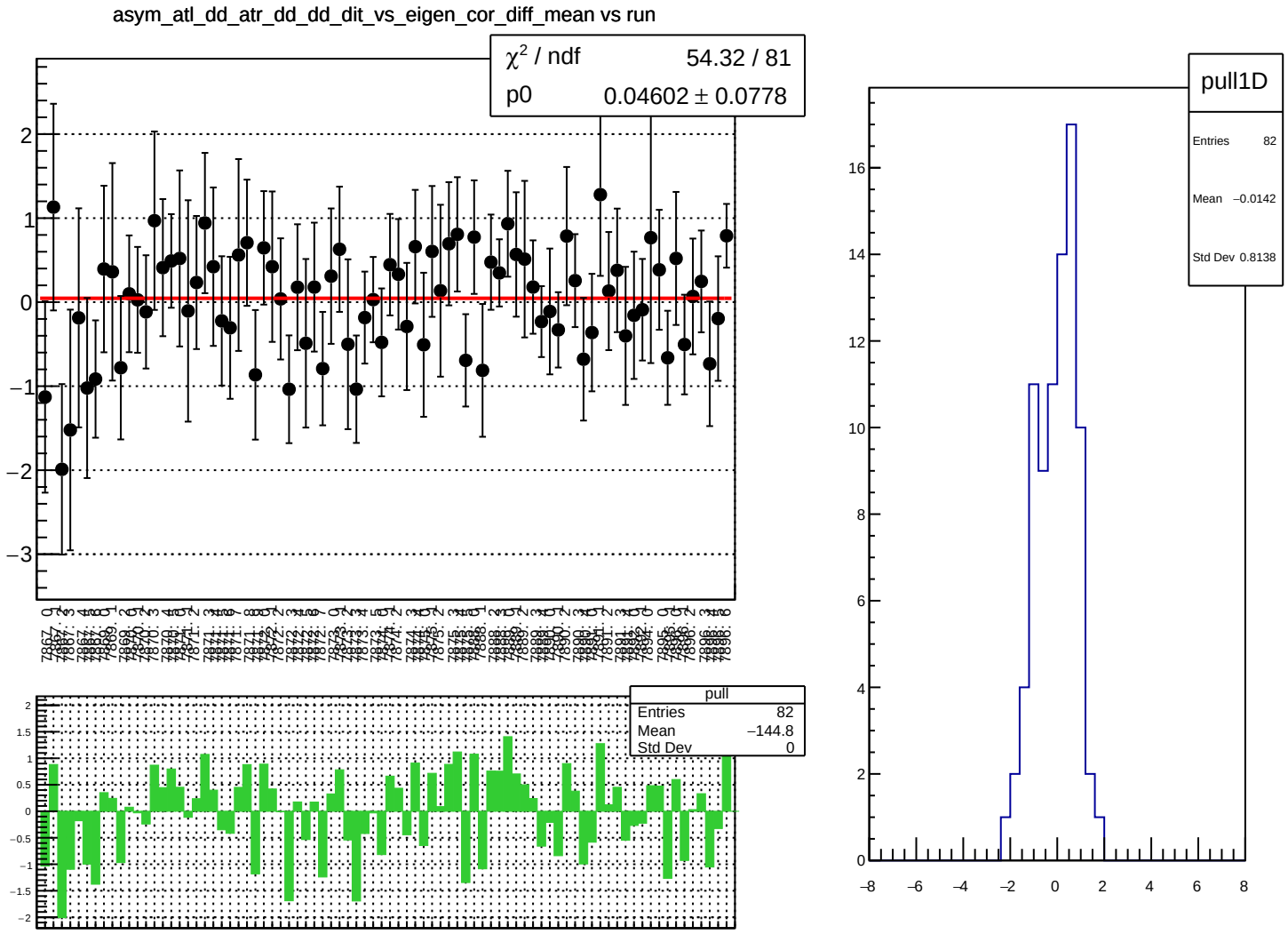

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.59 / 81
p0 1.156e−13 ± 2.66e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 82
Mean 16.59
Std Dev 52.46
2
1
0
−1
−2
−3

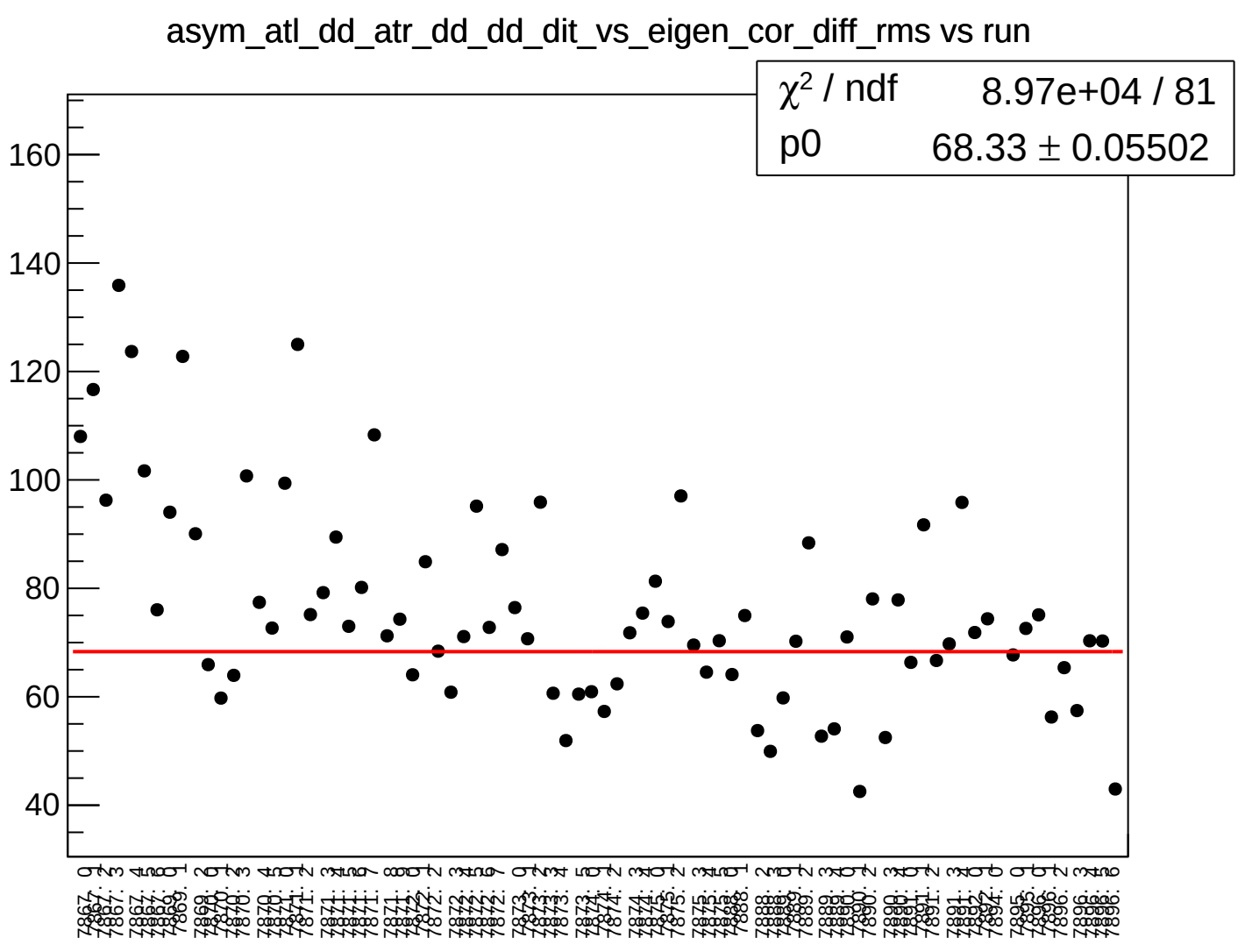

pull1D
Entries 82
Mean 0.02898
Std Dev 0.9207
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

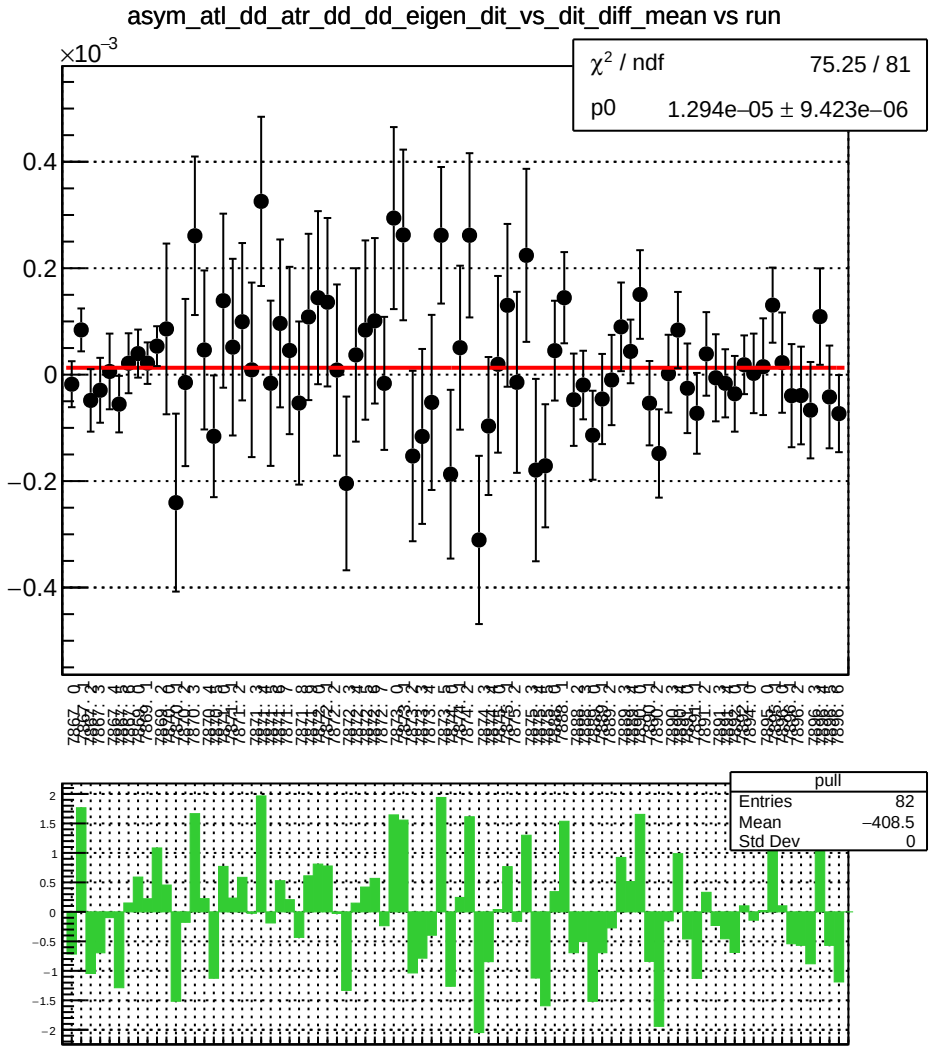

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 81
p0 1.459e−10 ± 1.881e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

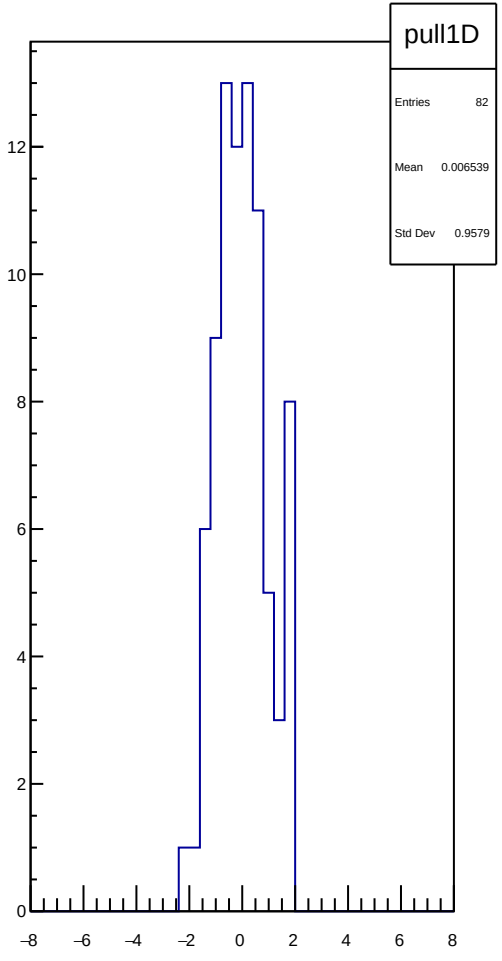

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04602 ± 0.0778
pull
Entries 82
Mean −144.8
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

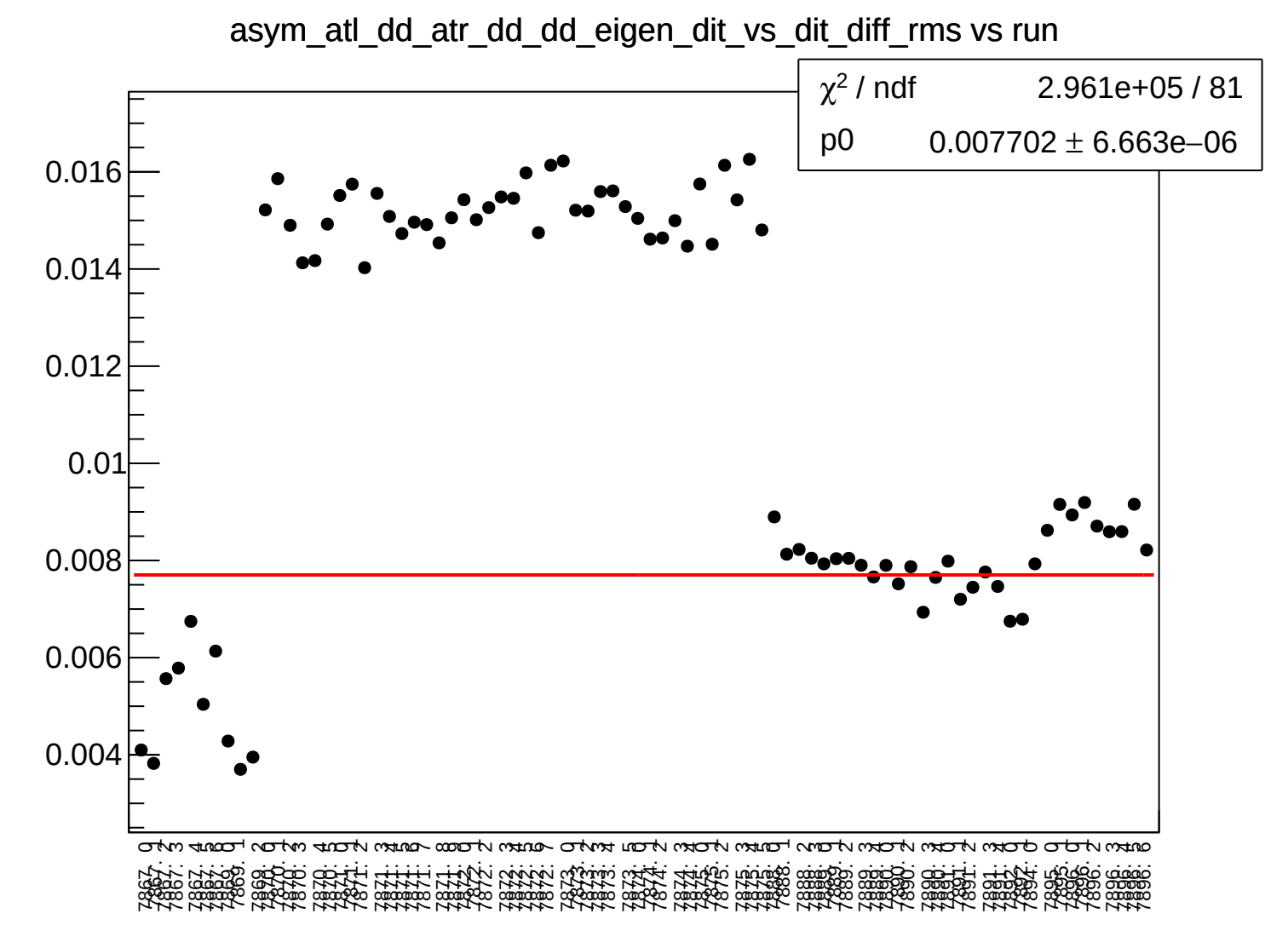

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.97e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

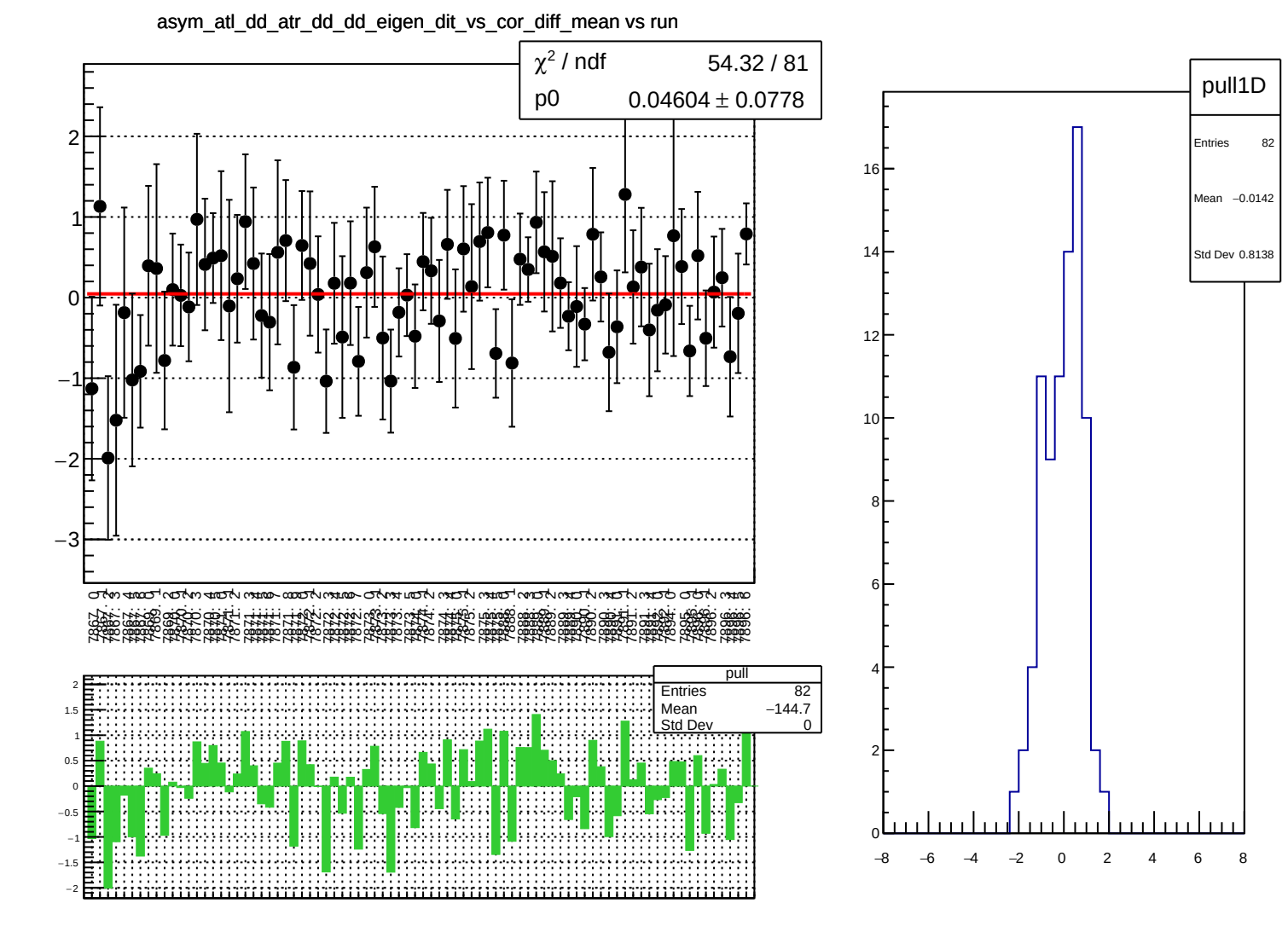

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04602 ± 0.0778
pull
Entries 82
Mean −144.8
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

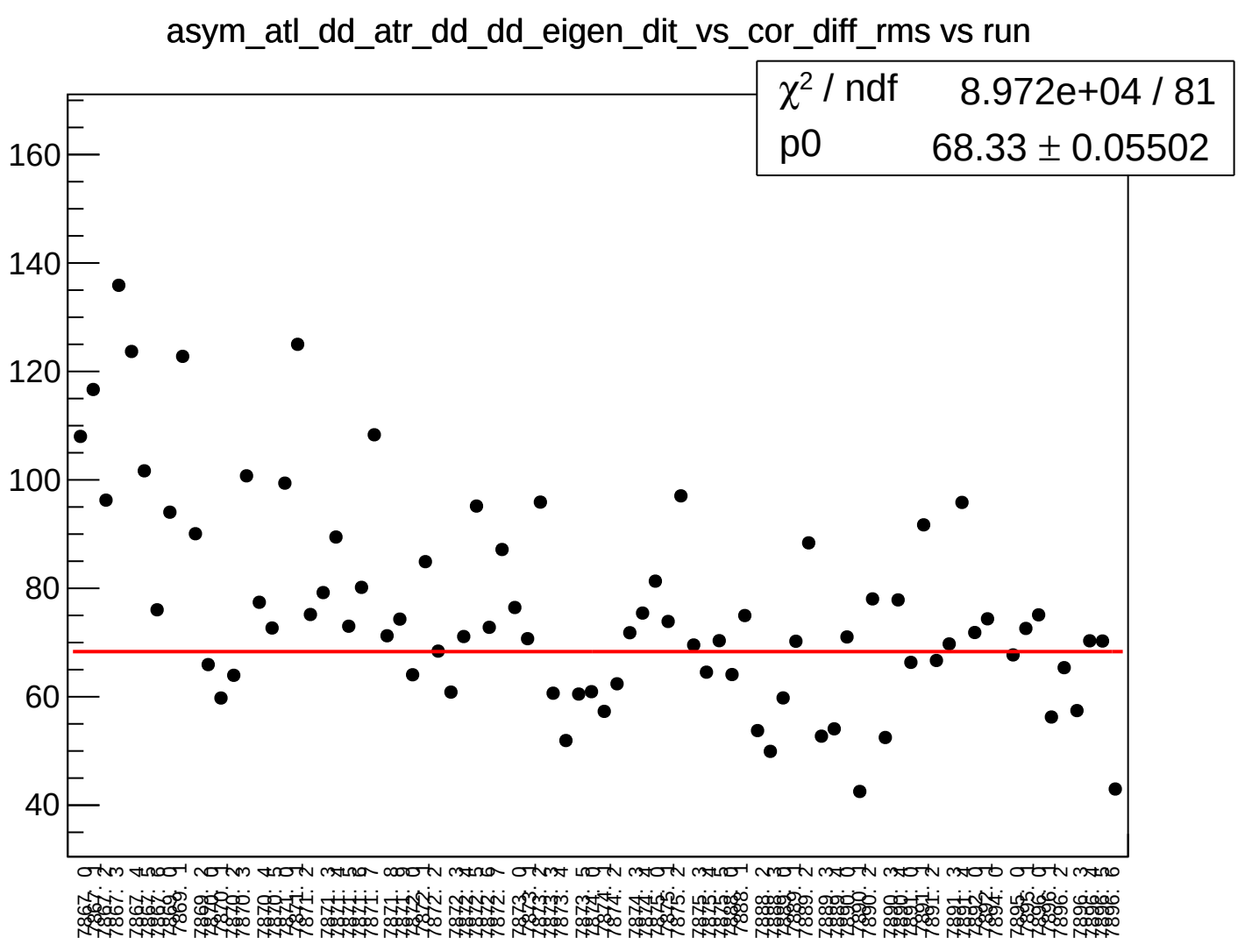

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.97e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

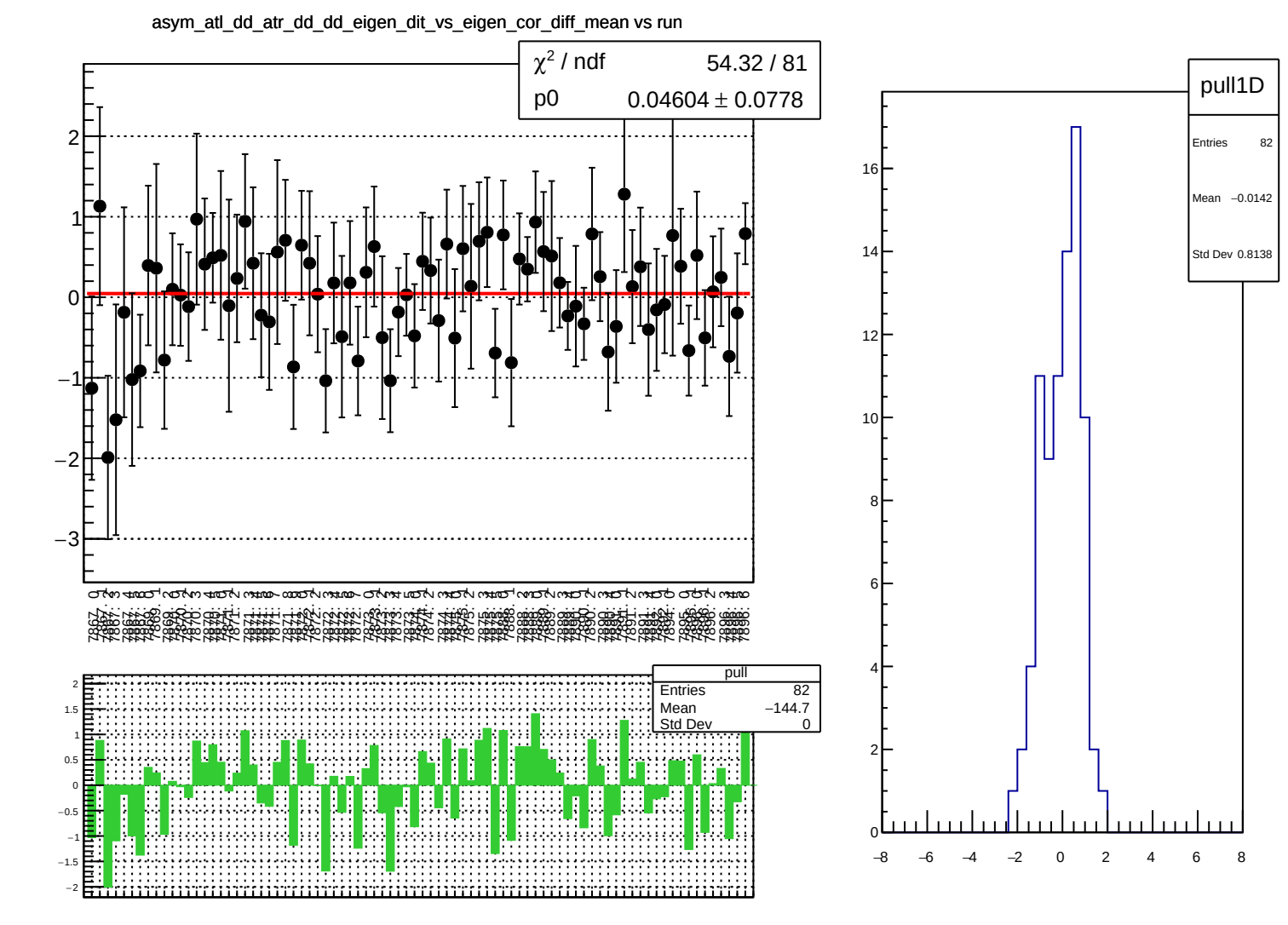

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.25 / 81
p0 1.294e−05 ± 9.423e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean −408.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

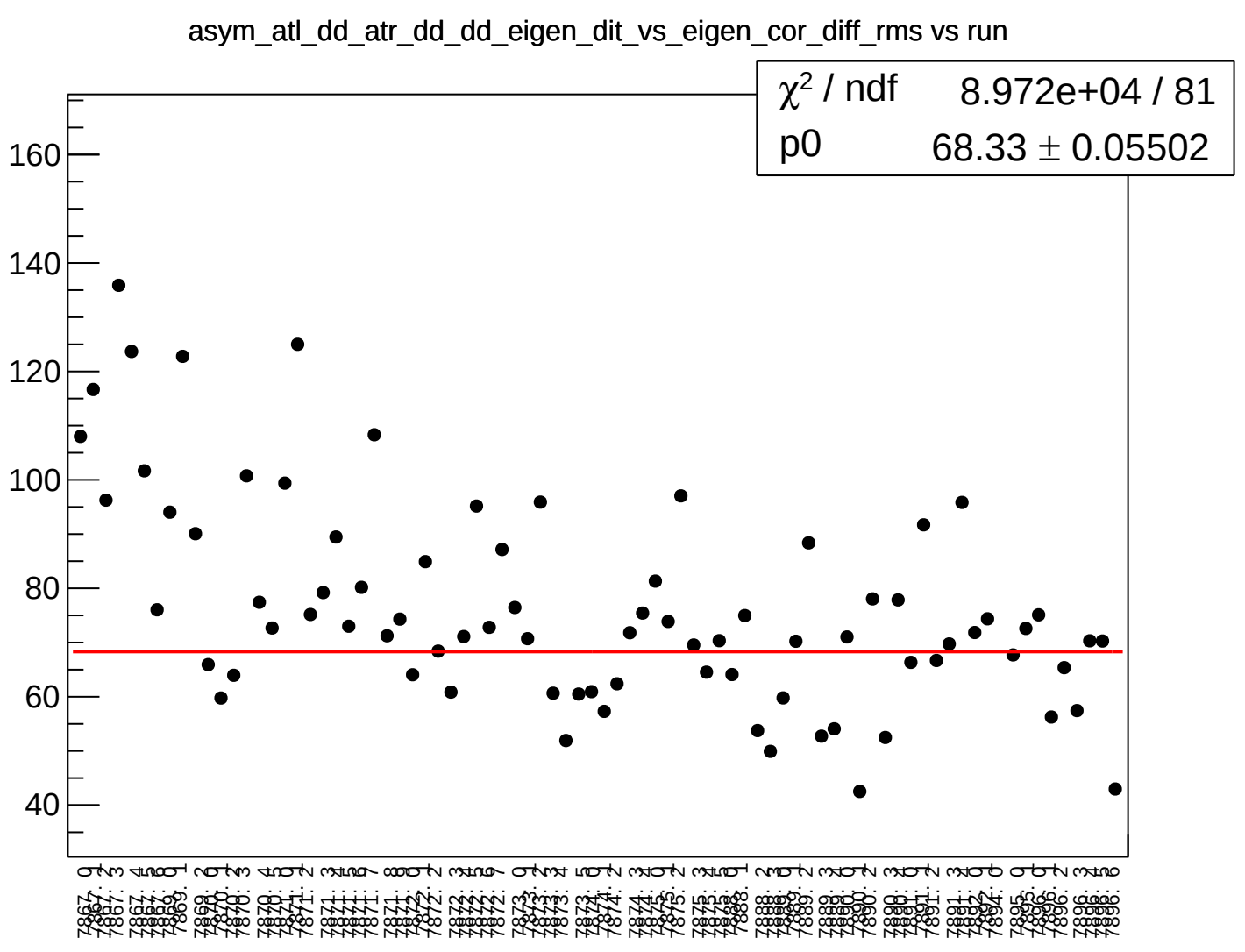

pull1D
Entries 82
Mean 0.006539
Std Dev 0.9579
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

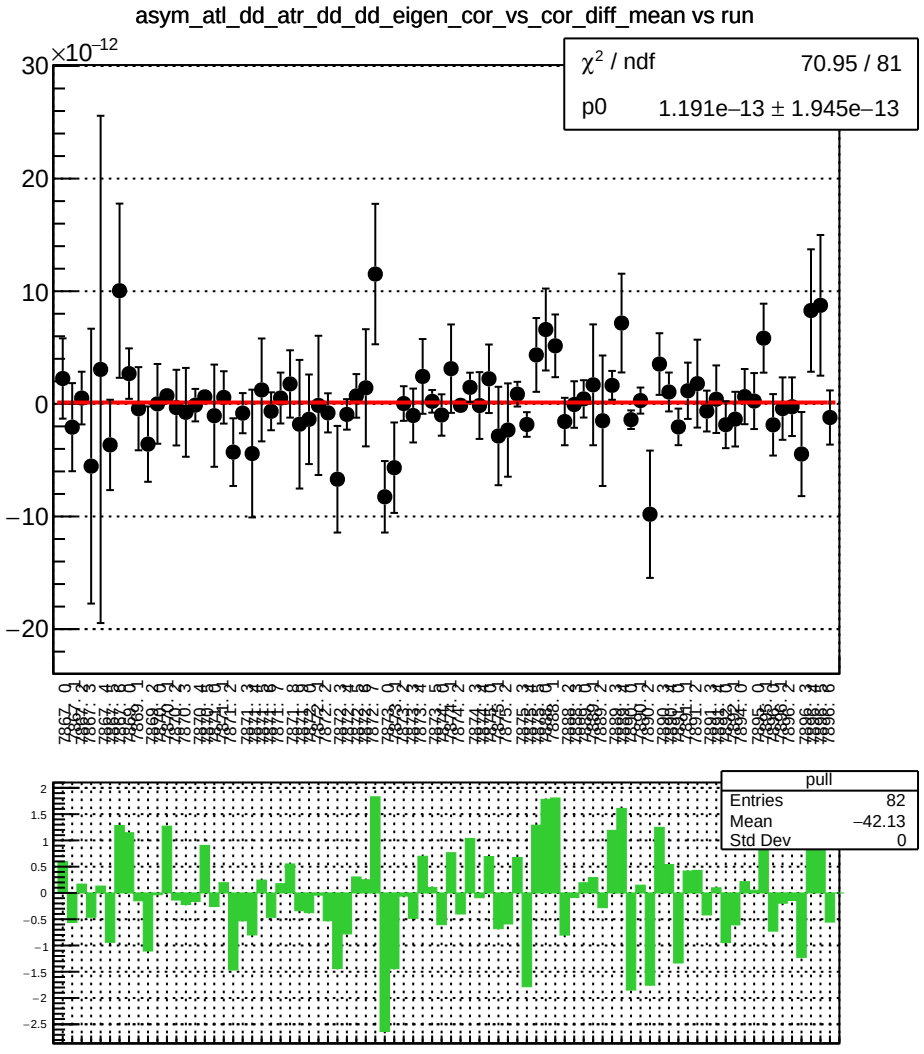

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.961e+05 / 81
p0 0.007702 ± 6.663e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

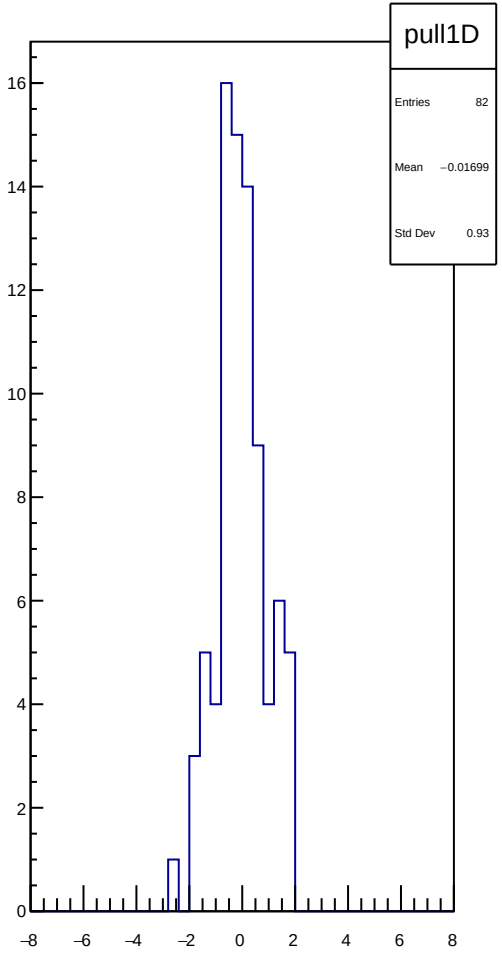

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04604 ± 0.0778
pull
Entries 82
Mean −144.7
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

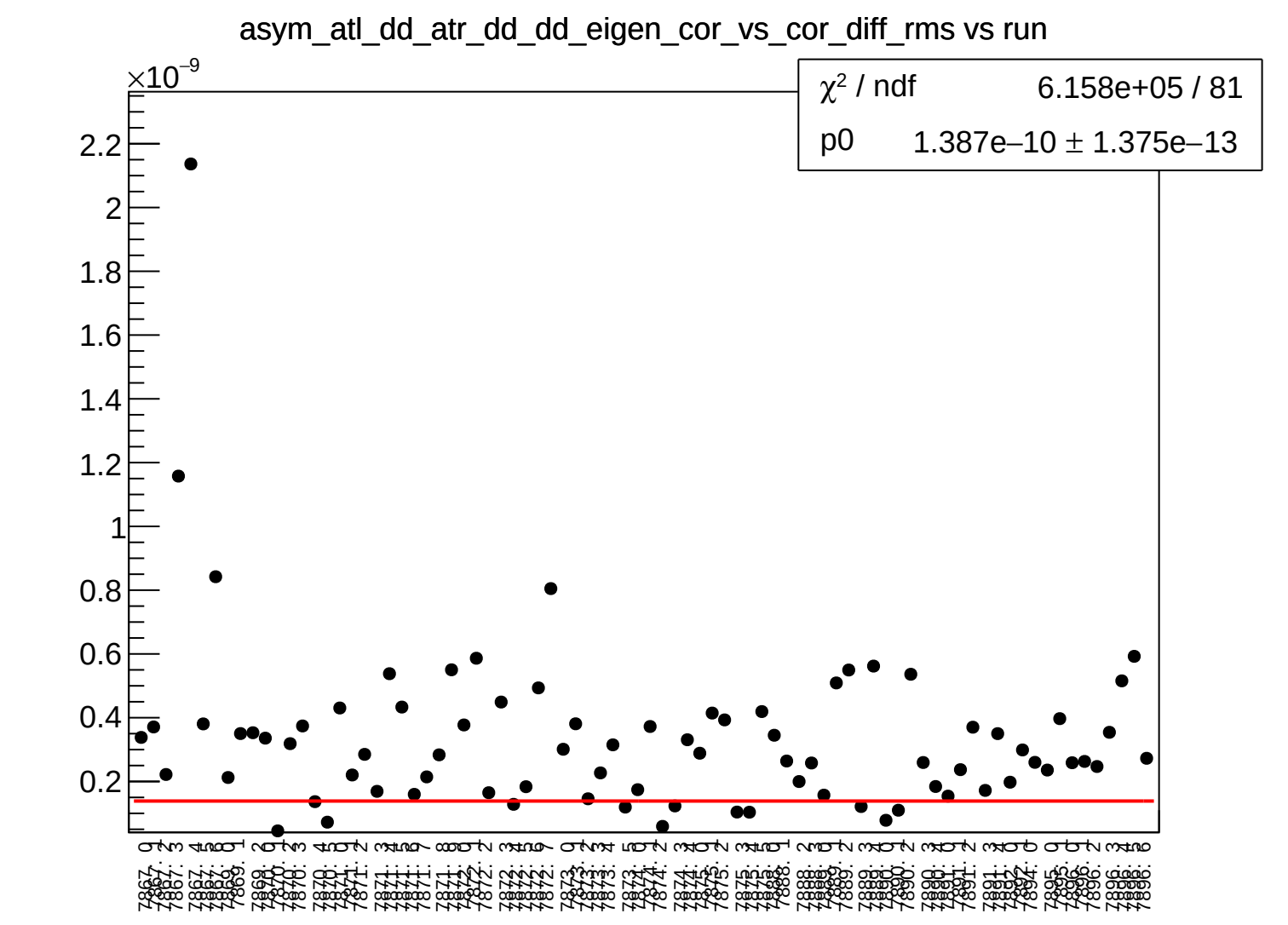

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.972e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

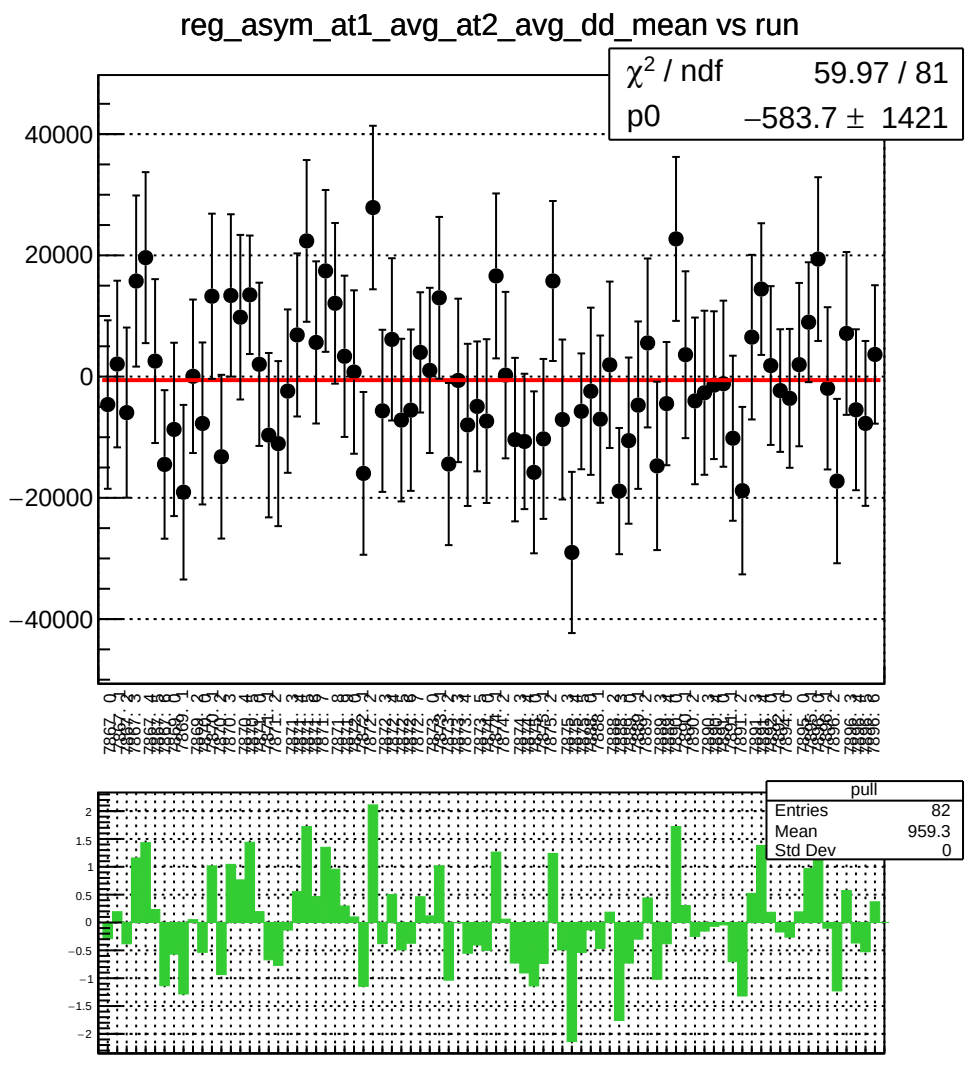

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04604 ± 0.0778
pull
Entries 82
Mean −144.7
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

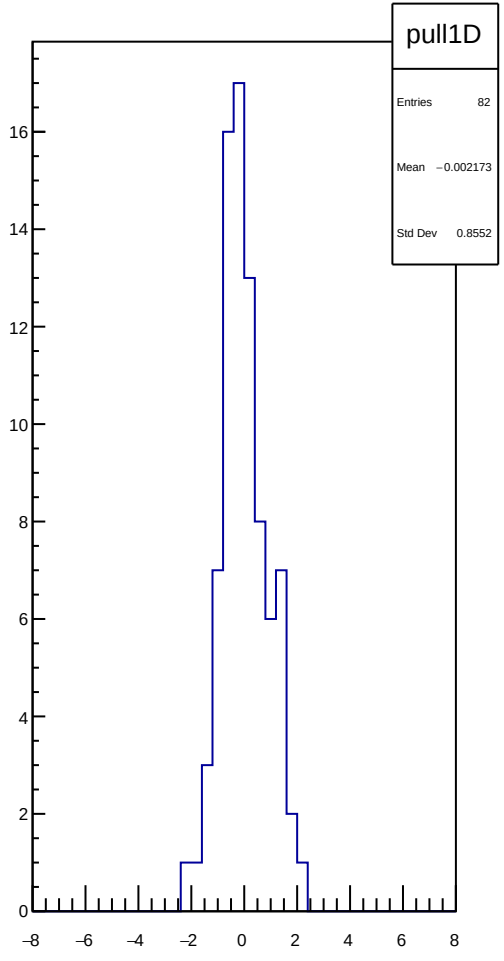

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.972e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

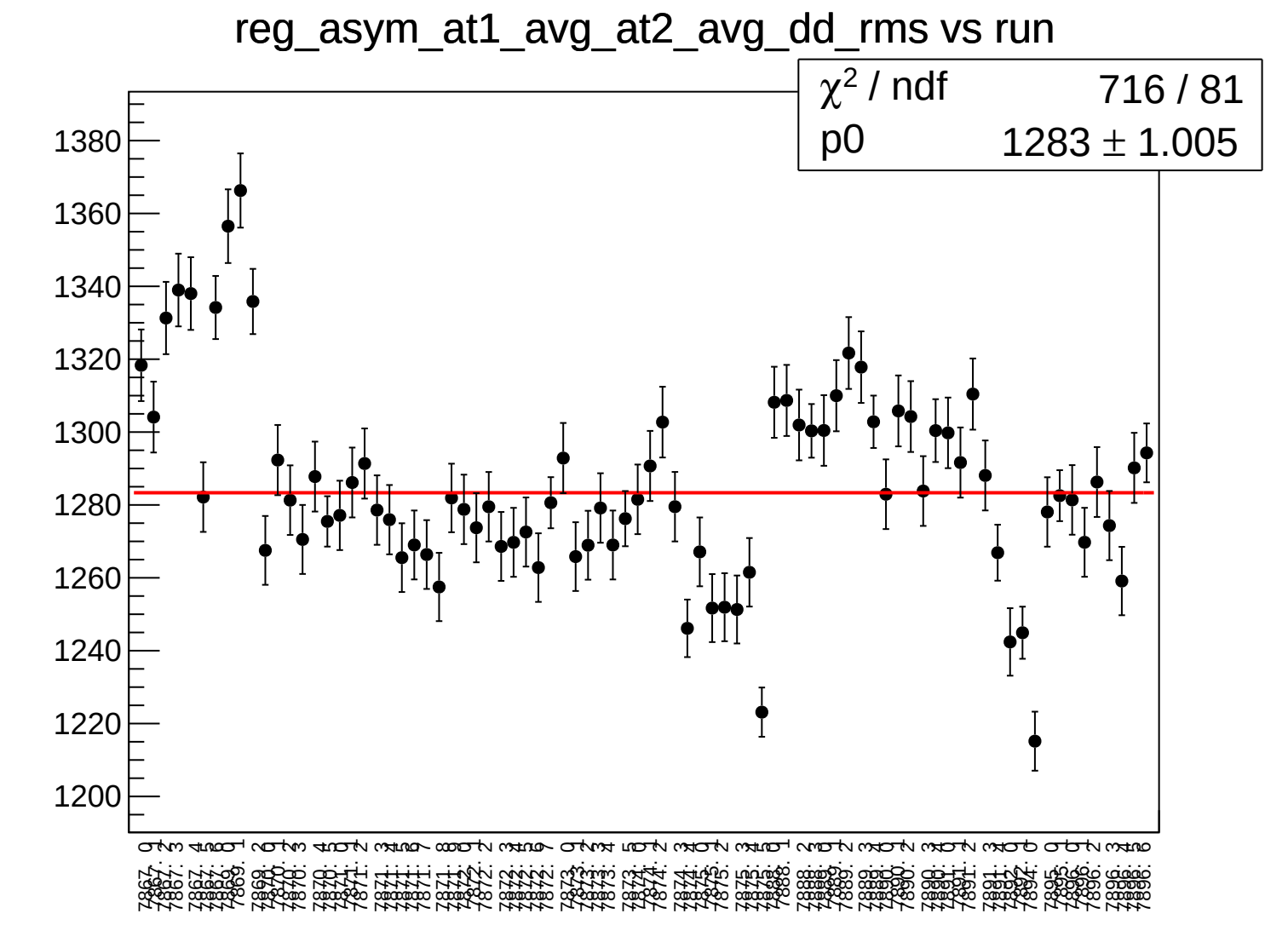

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 70.95 / 81
p0 1.191e−13 ± 1.945e−13
×10⁻¹²
pull
Entries 82
Mean −42.13
Std Dev 0

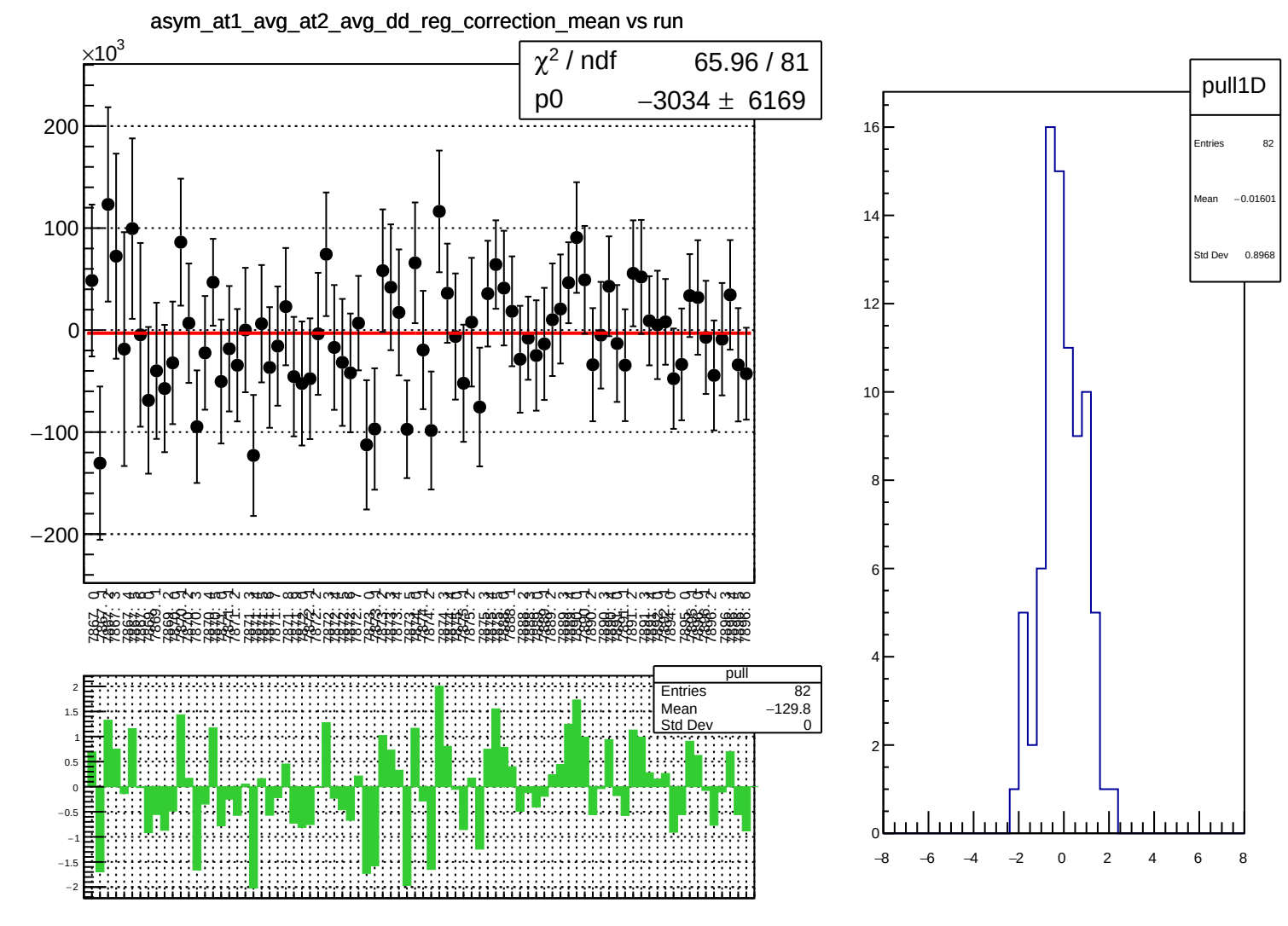

pull1D
Entries 82
Mean −0.01699
Std Dev 0.93

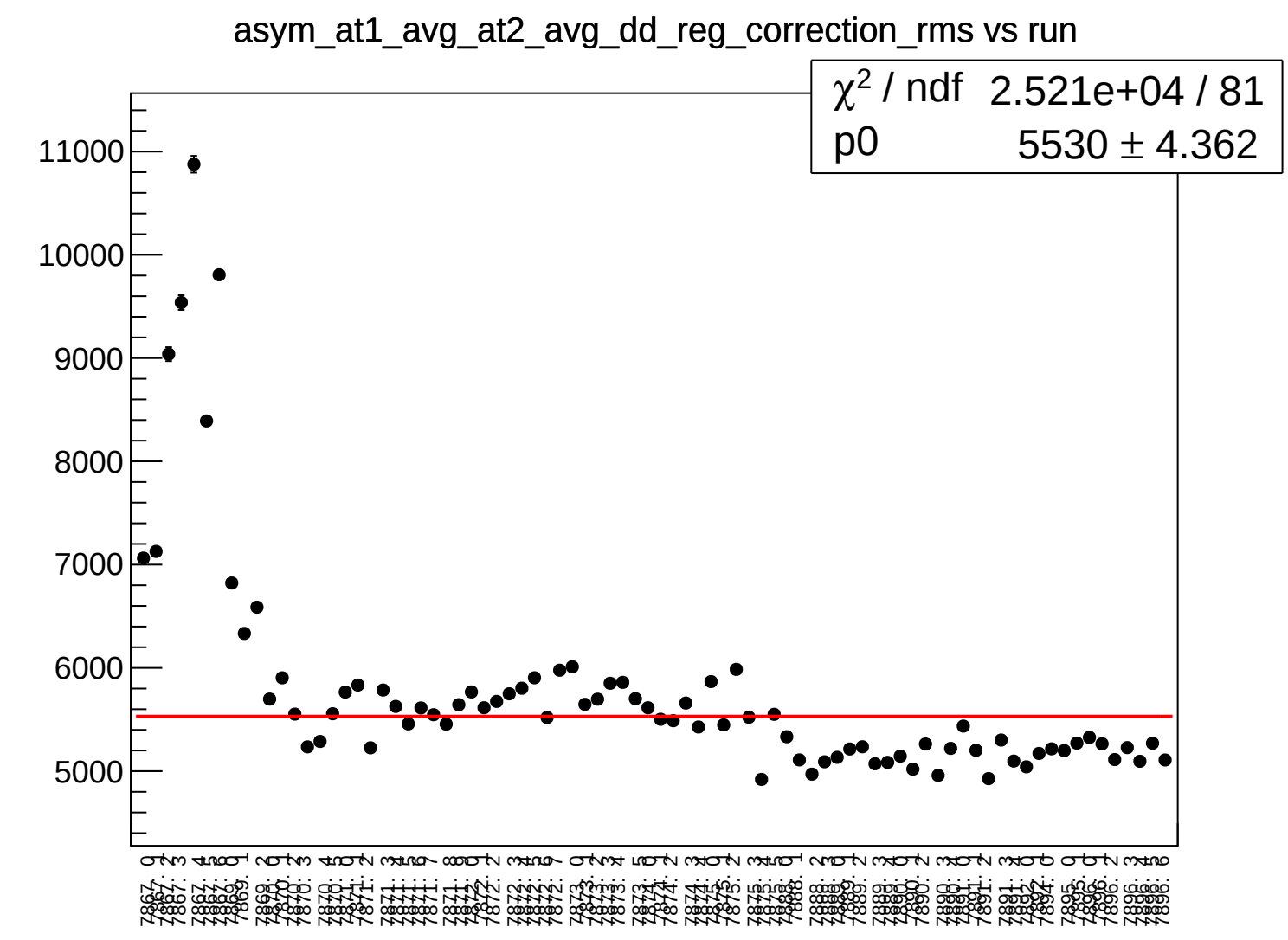

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.158e+05 / 81
p0 1.387e−10 ± 1.375e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

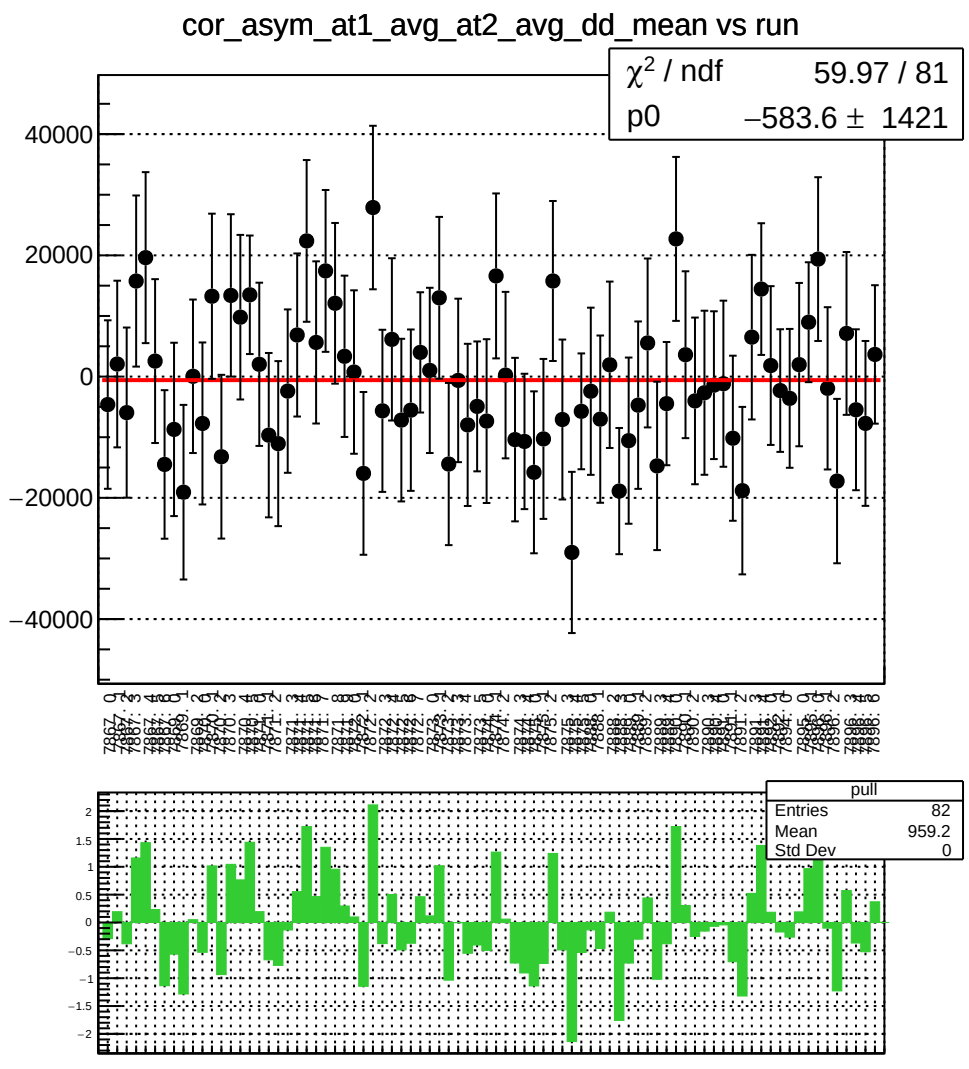

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 59.97 / 81
p0 −583.7 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

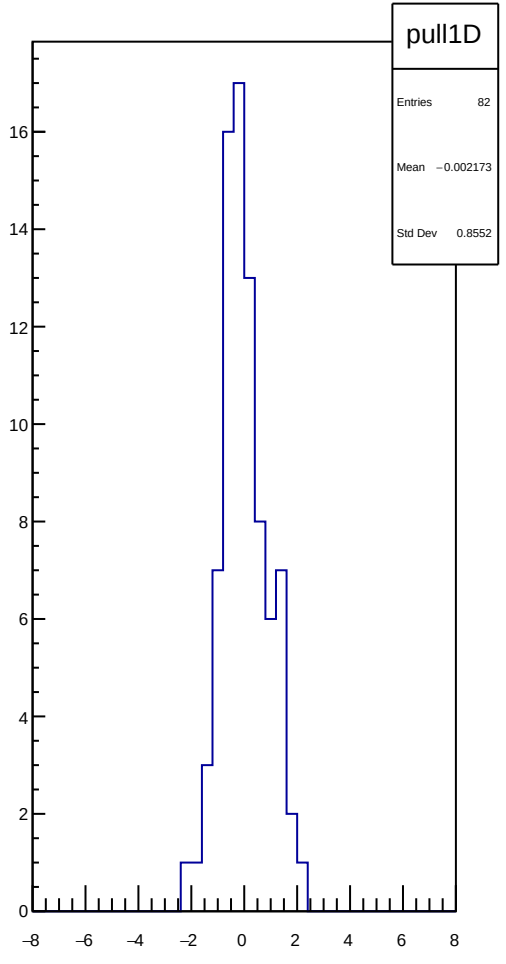

pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

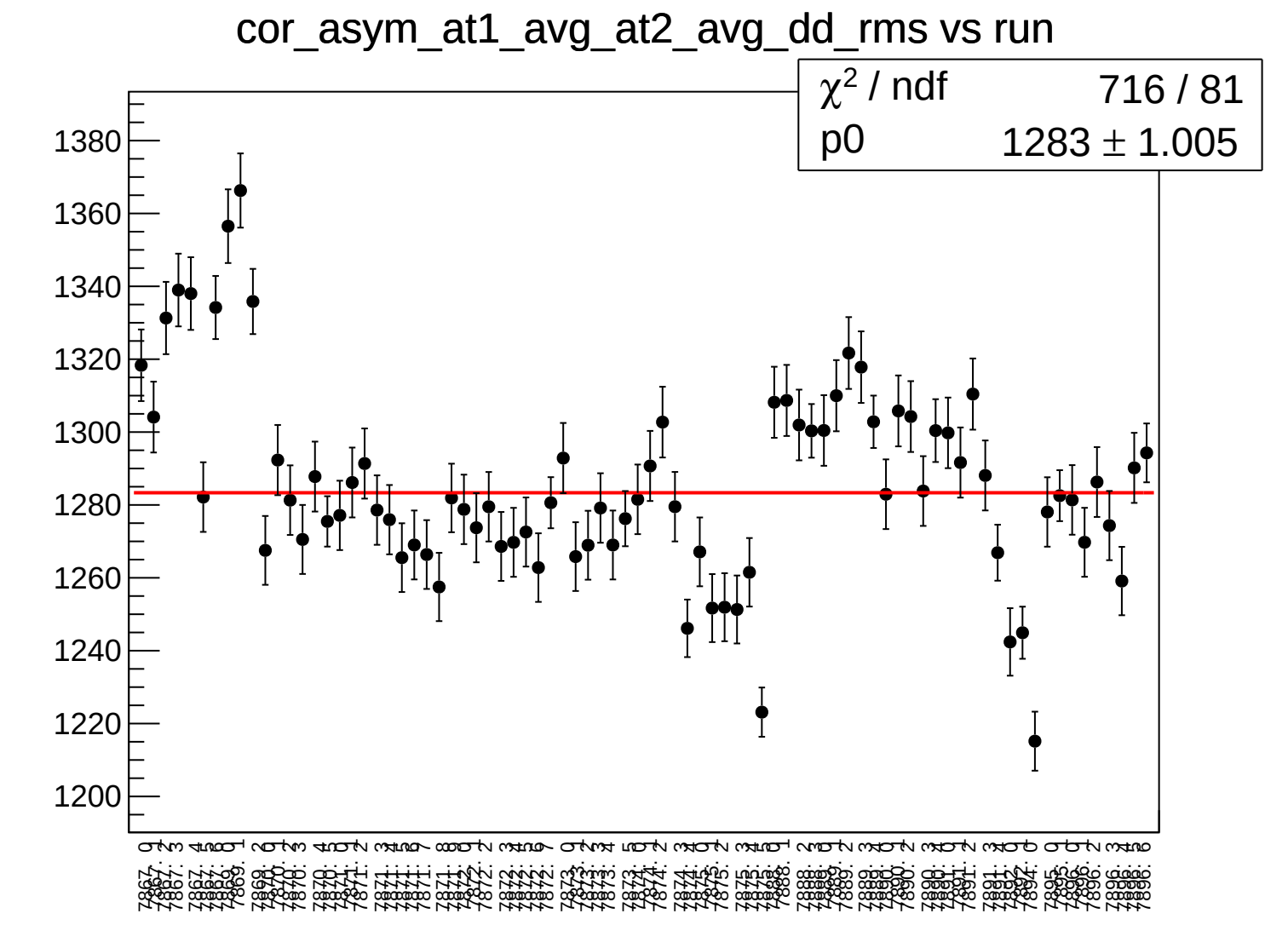

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

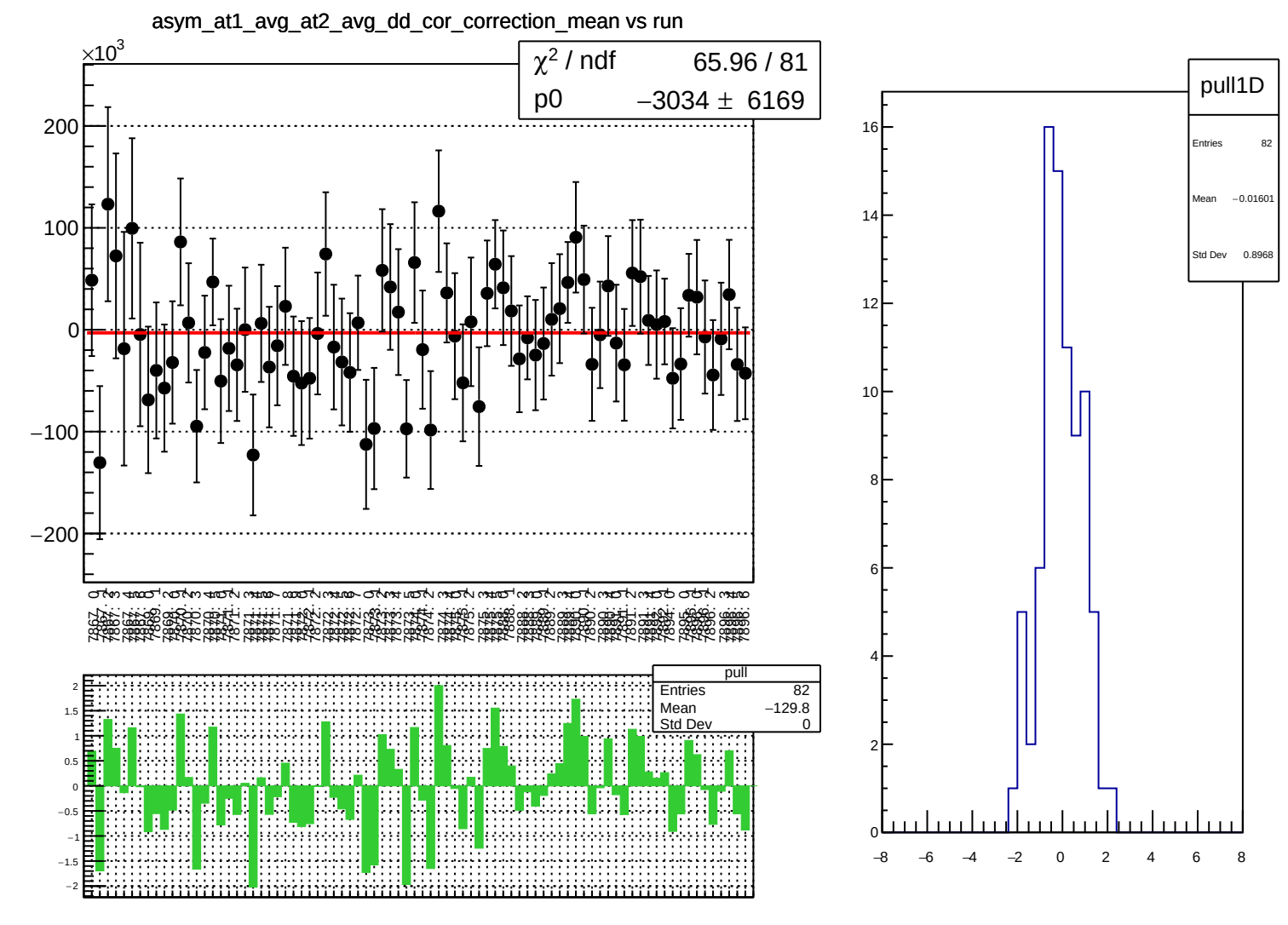

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

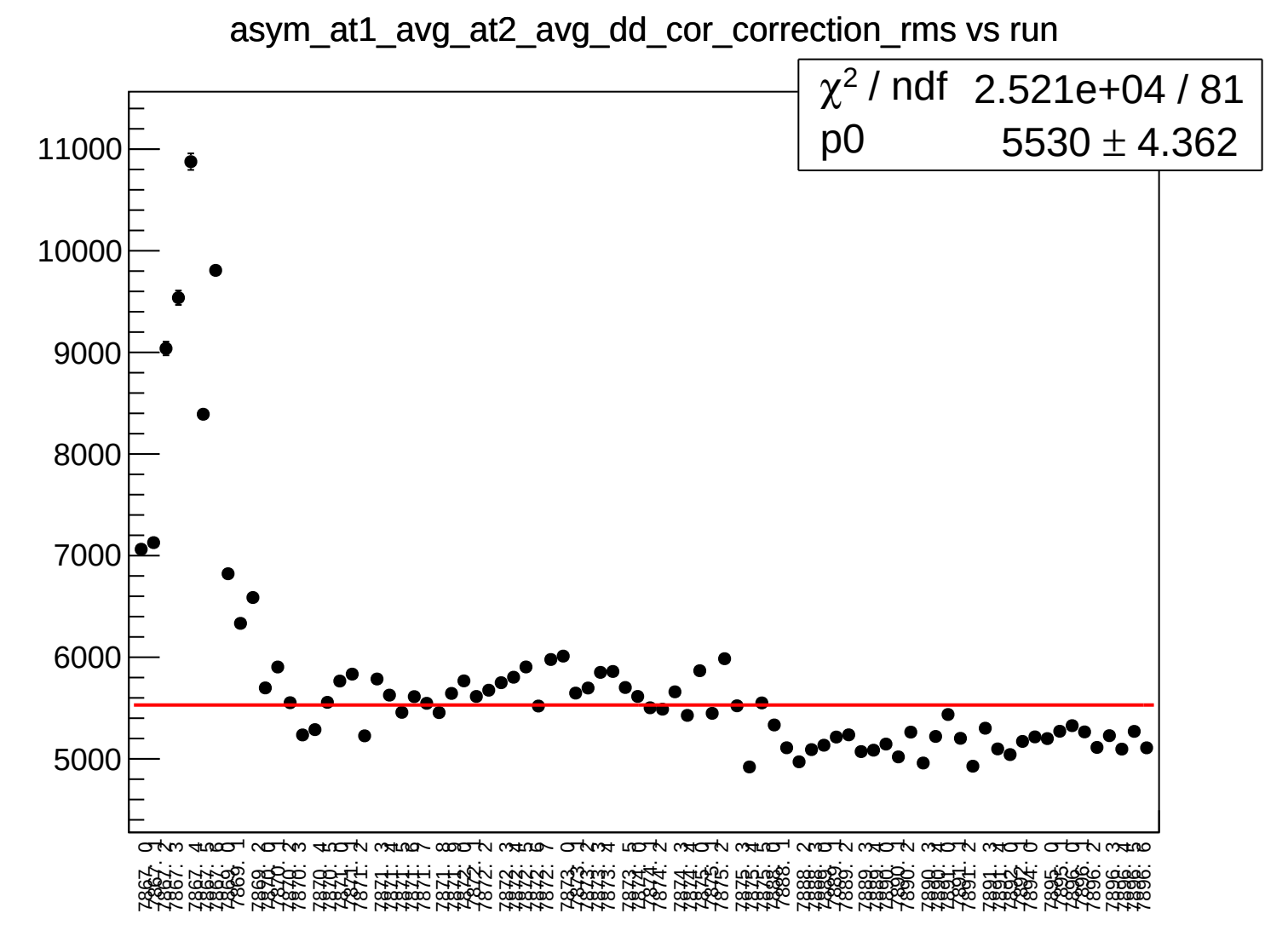

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000

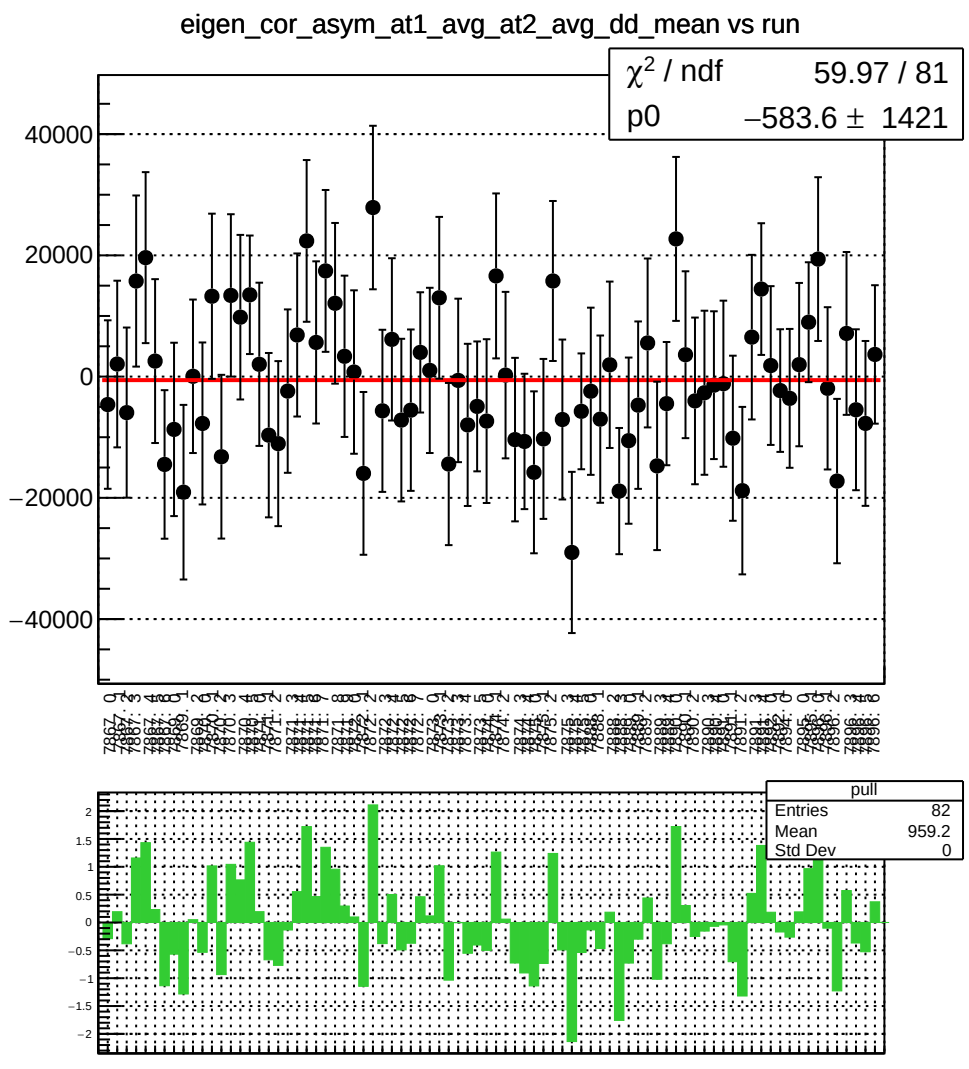

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 59.97 / 81
p0 −583.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

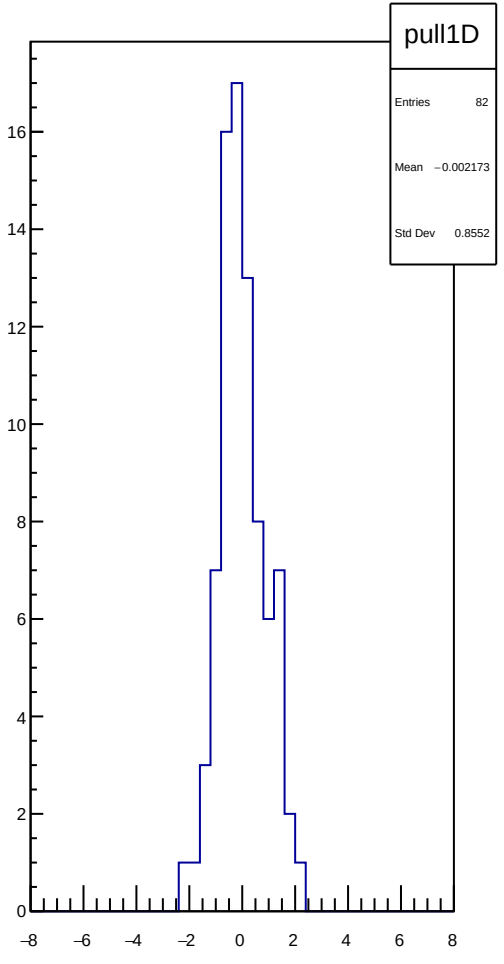

pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

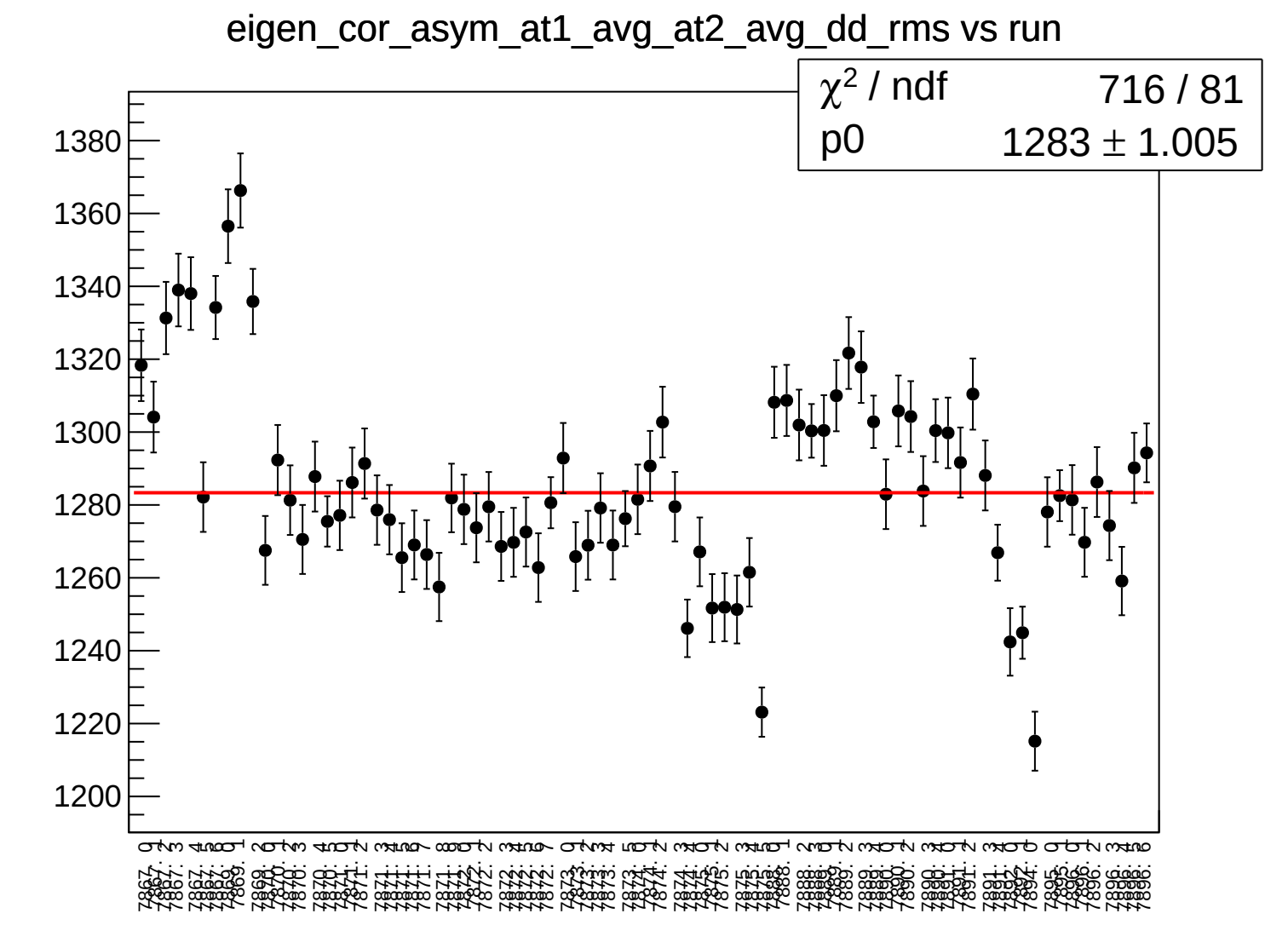

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

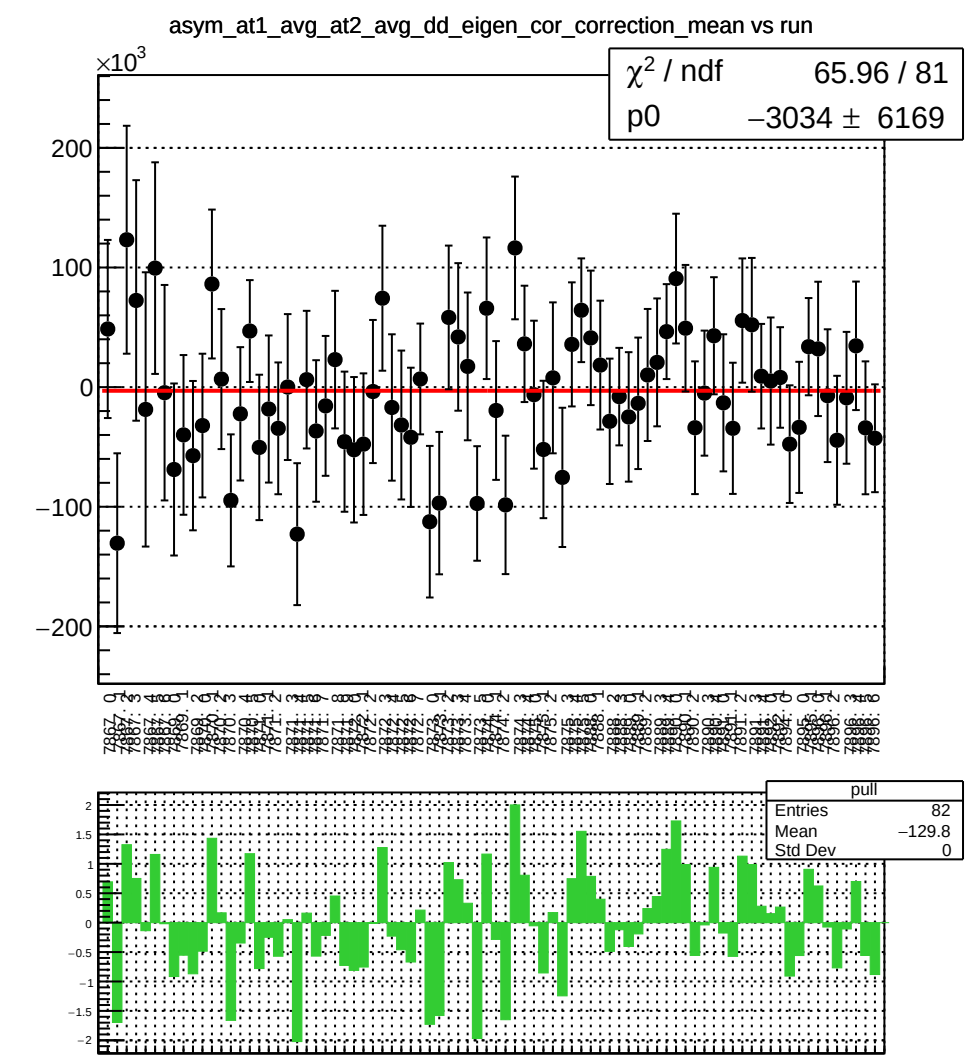

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

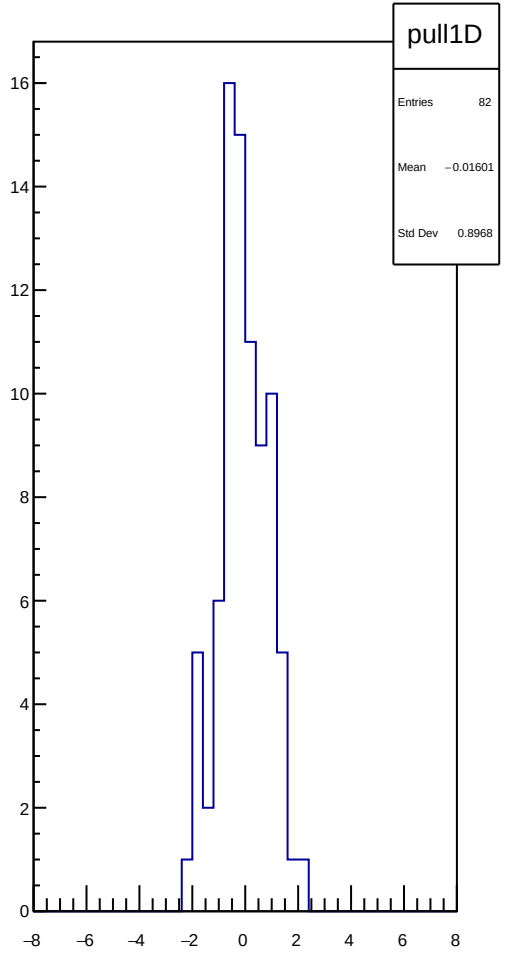

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 59.97 / 81
p0 −583.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
×10³
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
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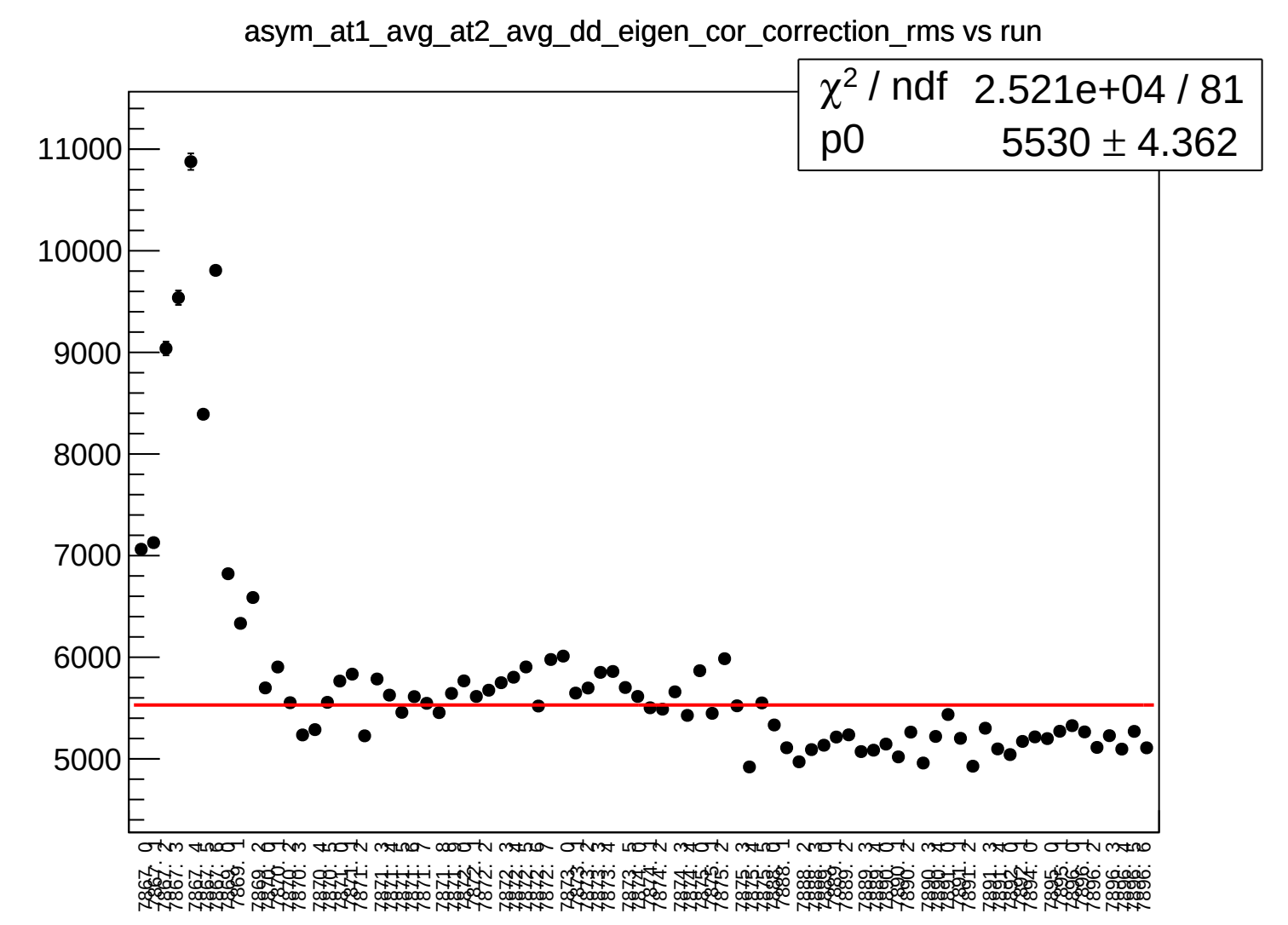
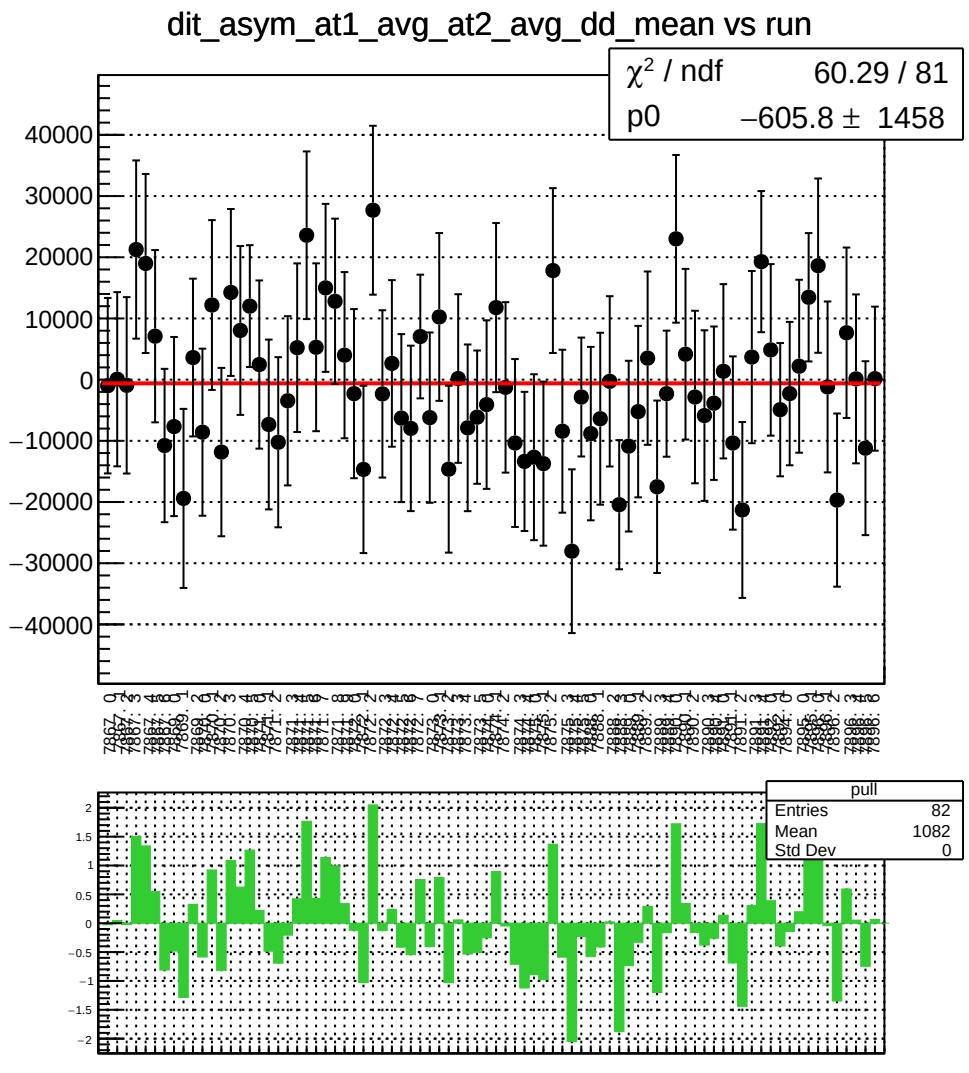
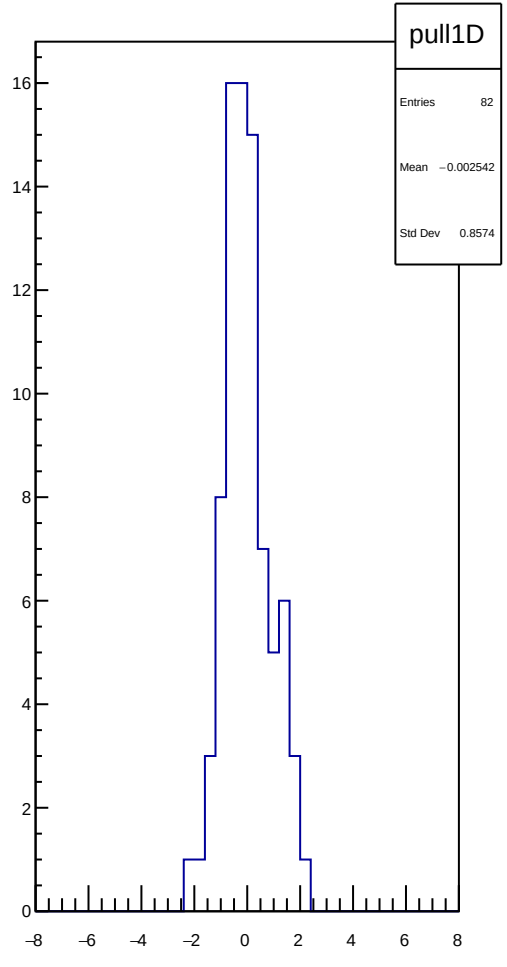
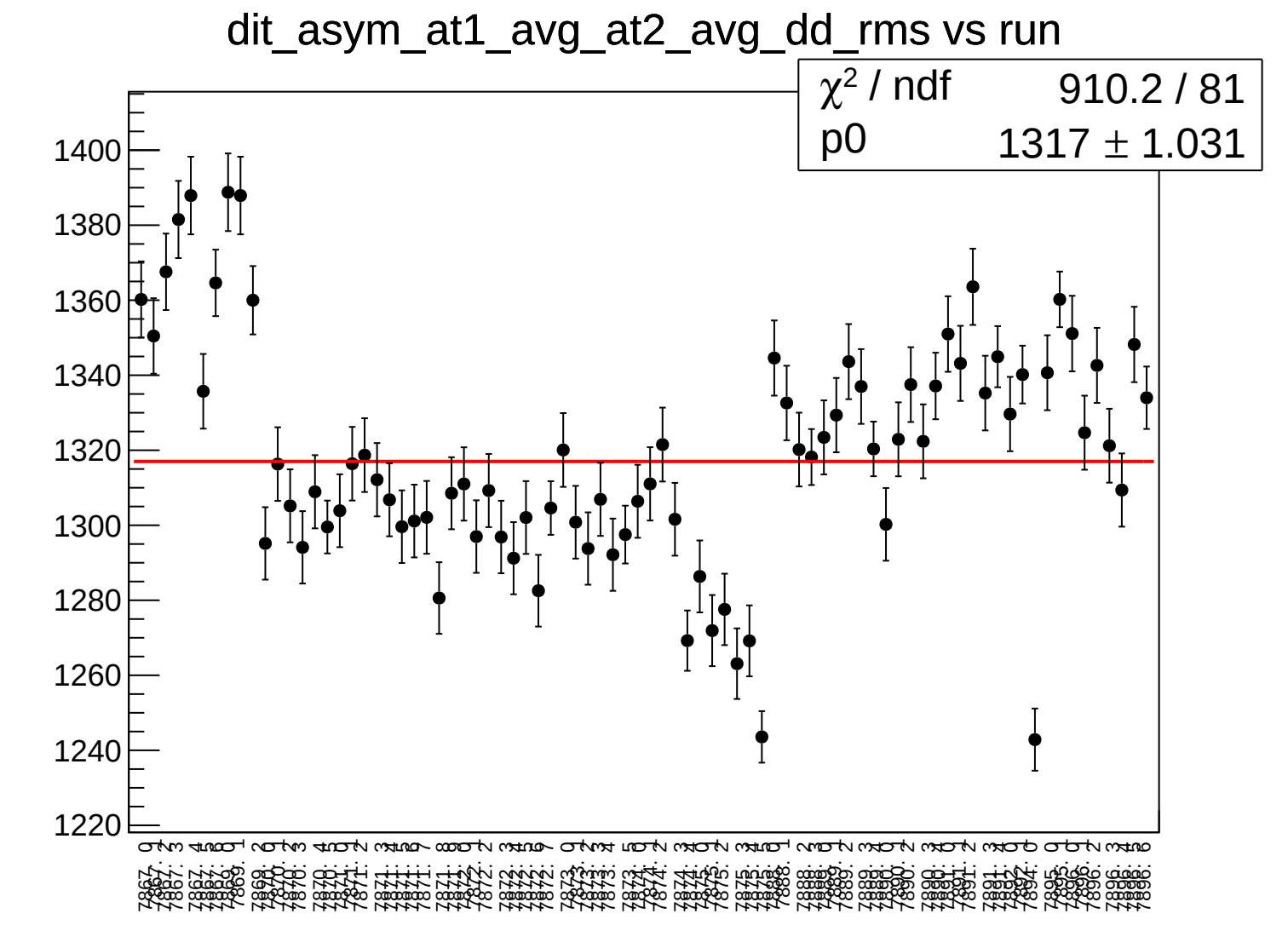
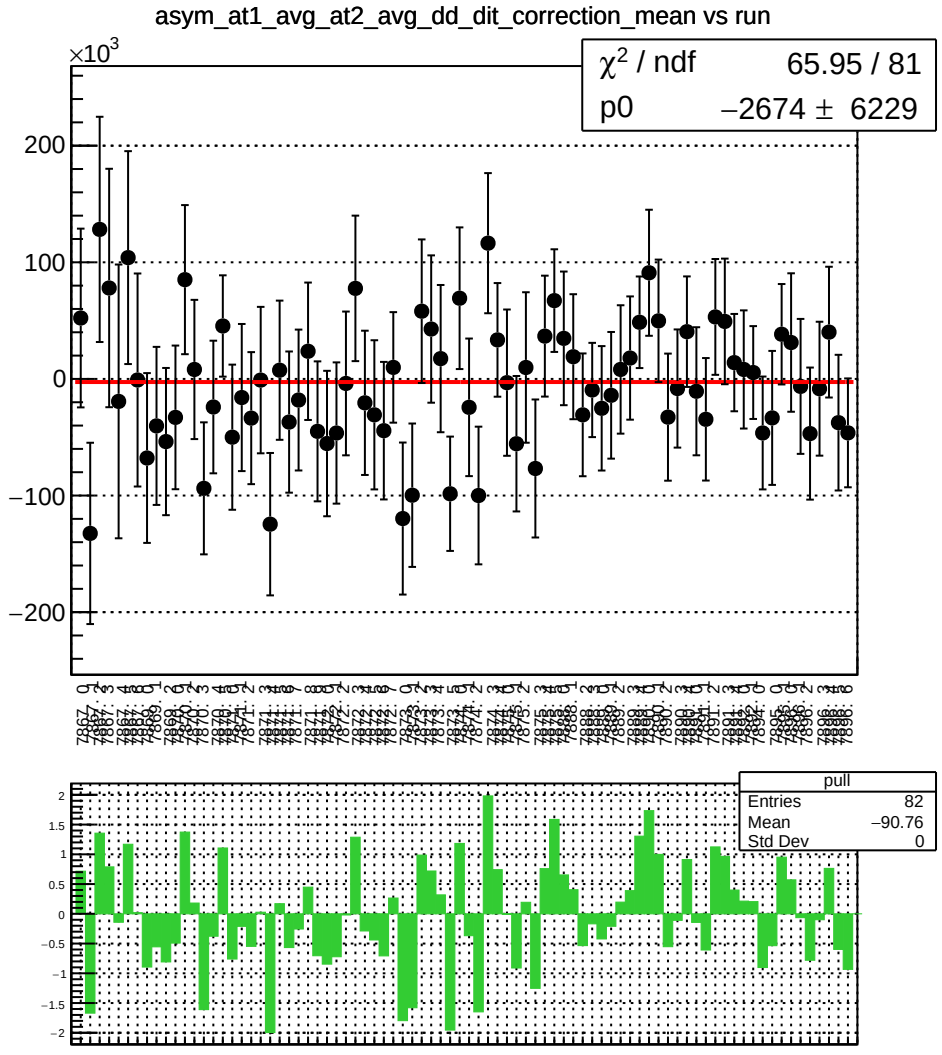
0
2
4
6
8

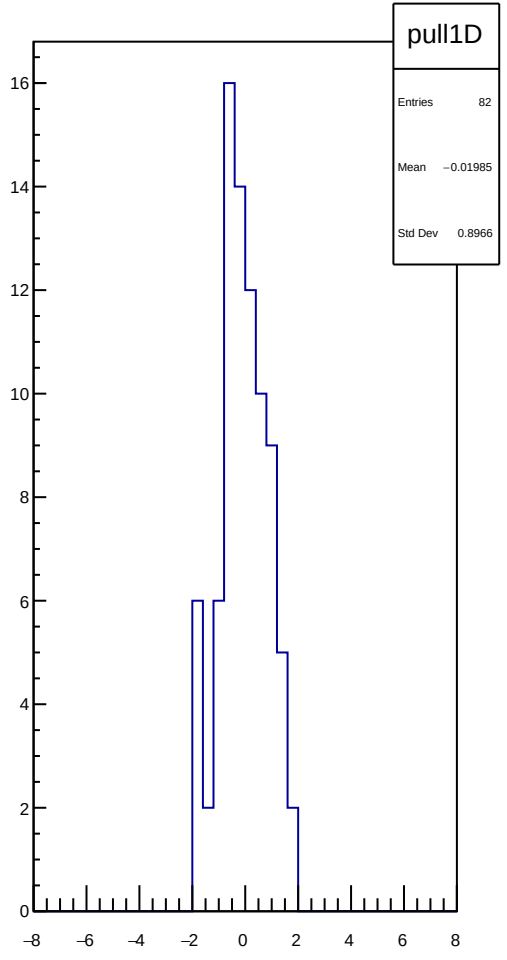

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000

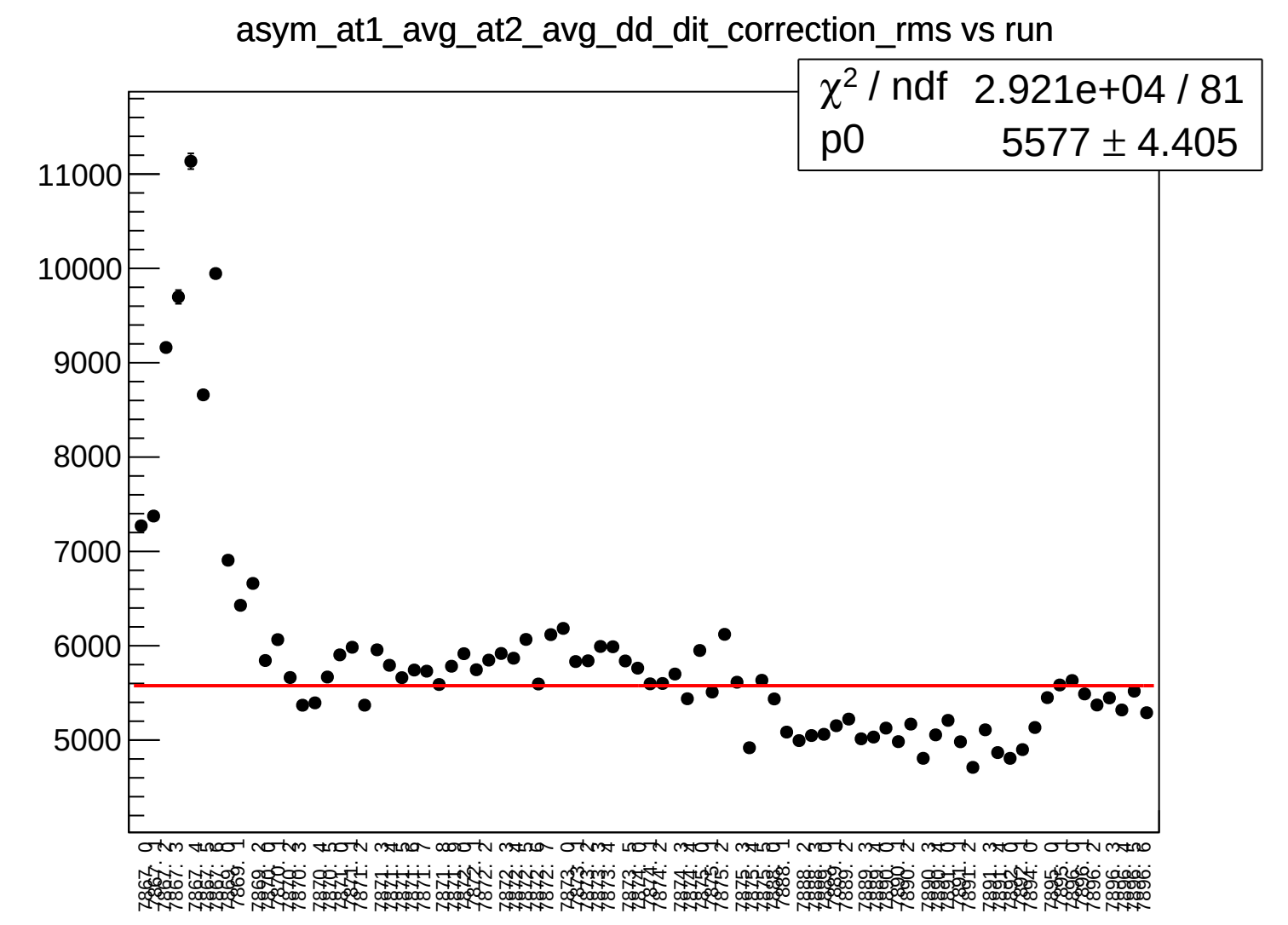

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 60.29 / 81
p0 −605.8 ± 1458
pull
Entries 82
Mean 1082
Std Dev 0

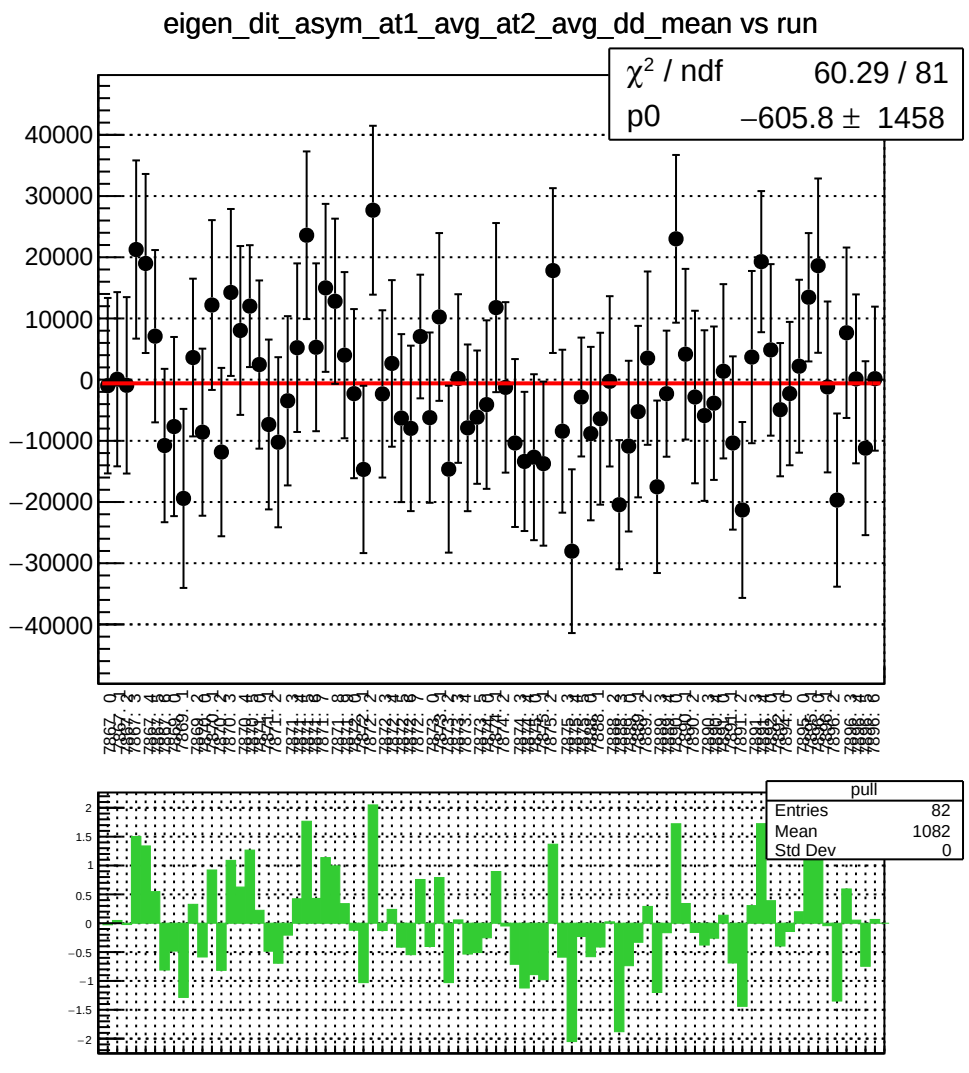

pull1D
Entries 82
Mean −0.002542
Std Dev 0.8574

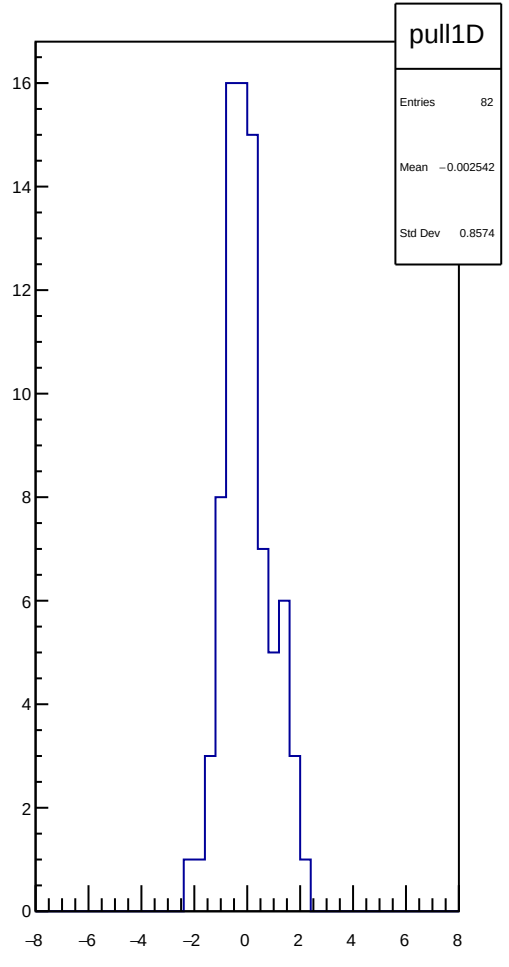

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 910.2 / 81
p0 1317 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

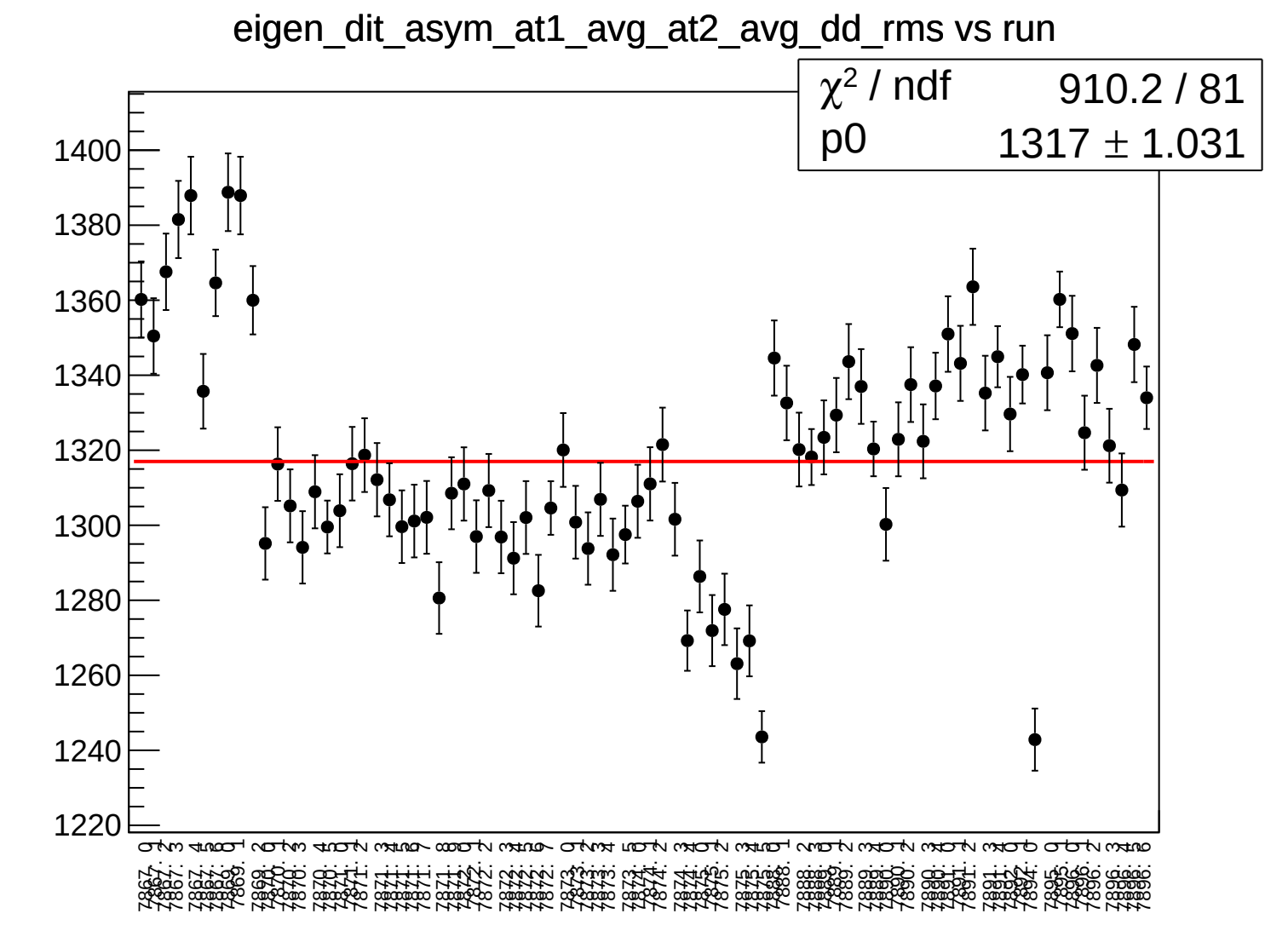

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.95 / 81
p0 −2674 ± 6229
200
100
0
−100
−200
pull
Entries 82
Mean −90.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

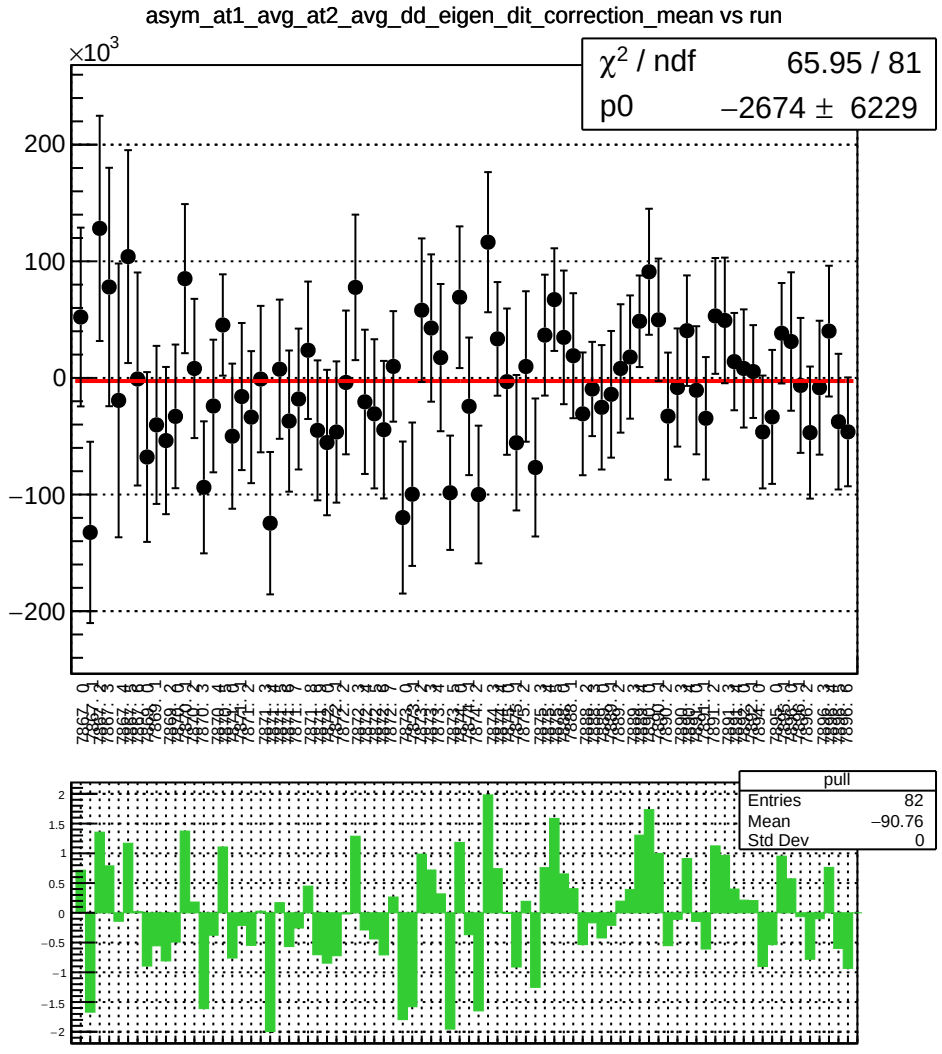

pull1D
Entries 82
Mean −0.01985
Std Dev 0.8966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

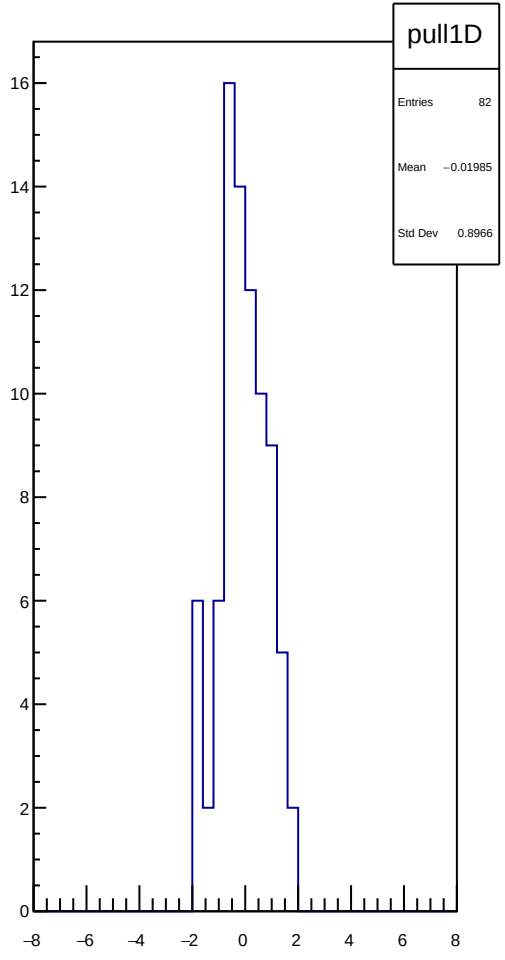

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 2.921e+04 / 81
p0 5577 ± 4.405
11000
10000
9000
8000
7000
6000
5000


eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 60.29 / 81
p0 −605.8 ± 1458
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 1082
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.002542
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 910.2 / 81
p0 1317 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220


asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.95 / 81
p0 −2674 ± 6229
200
100
0
−100
−200
pull
Entries 82
Mean −90.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.01985
Std Dev 0.8966
16
14
12
10
8
6
4
2
0
−8
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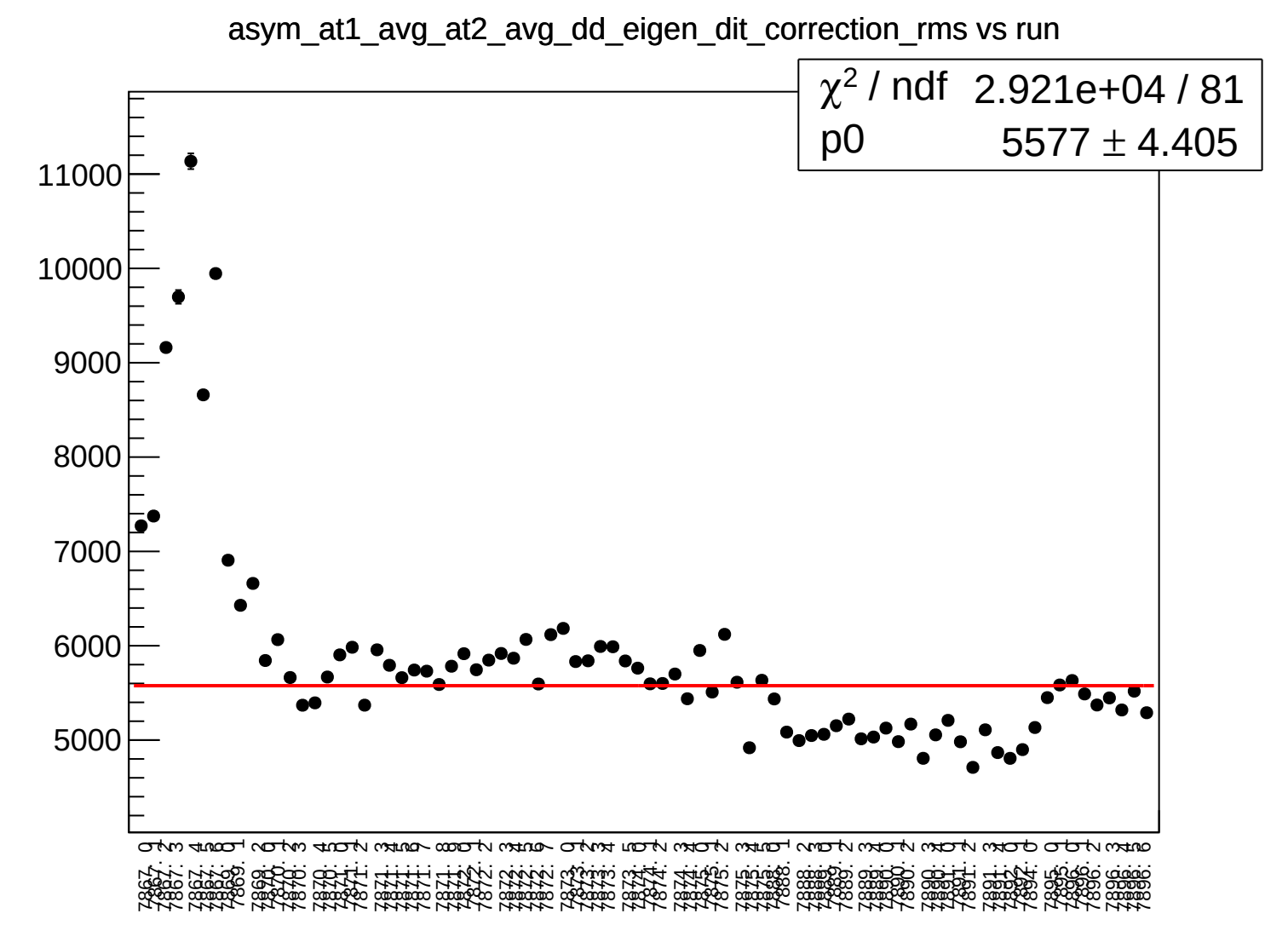
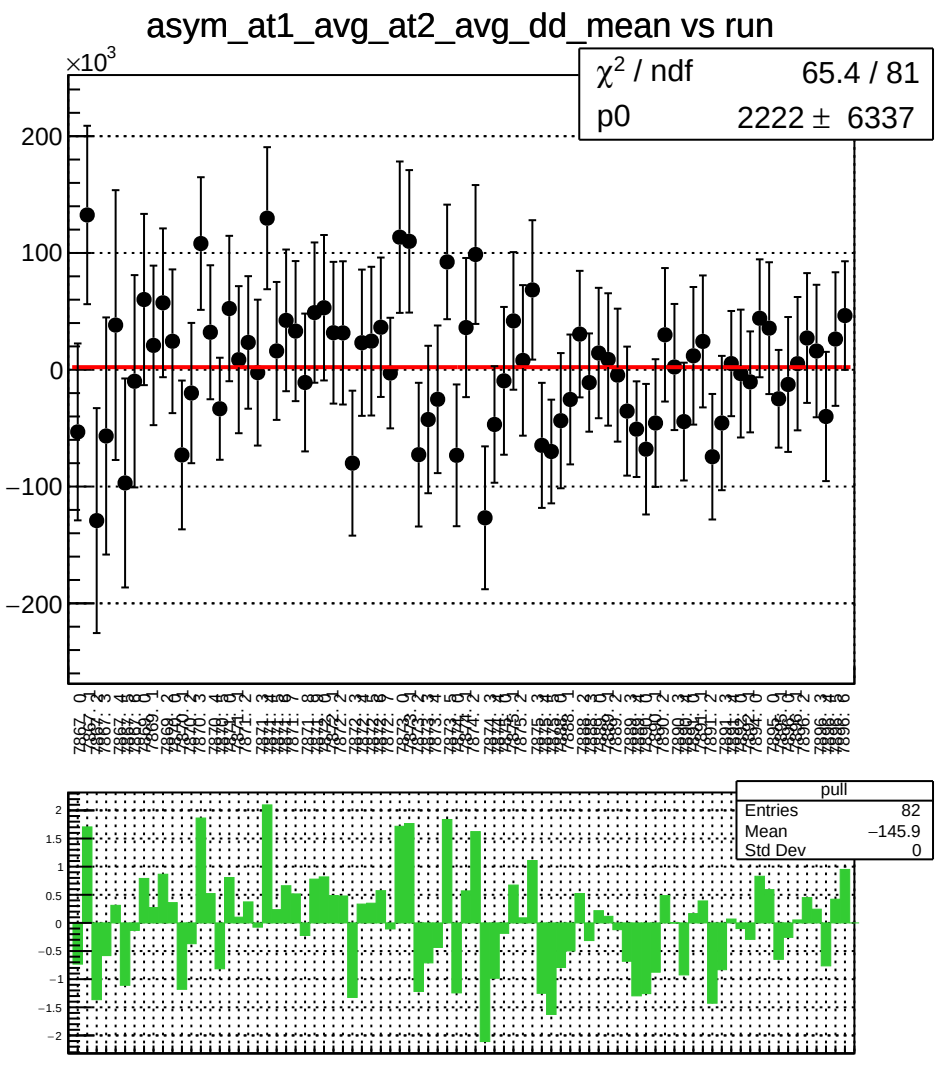
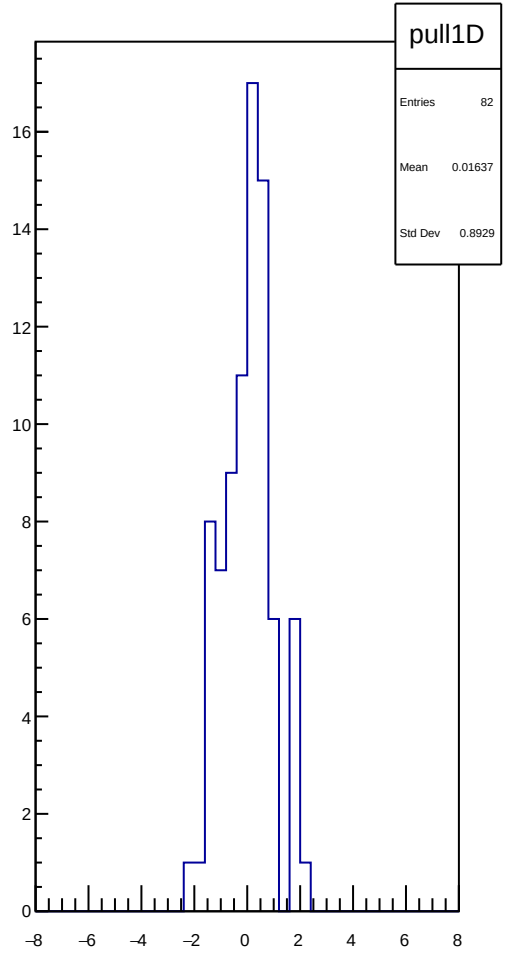
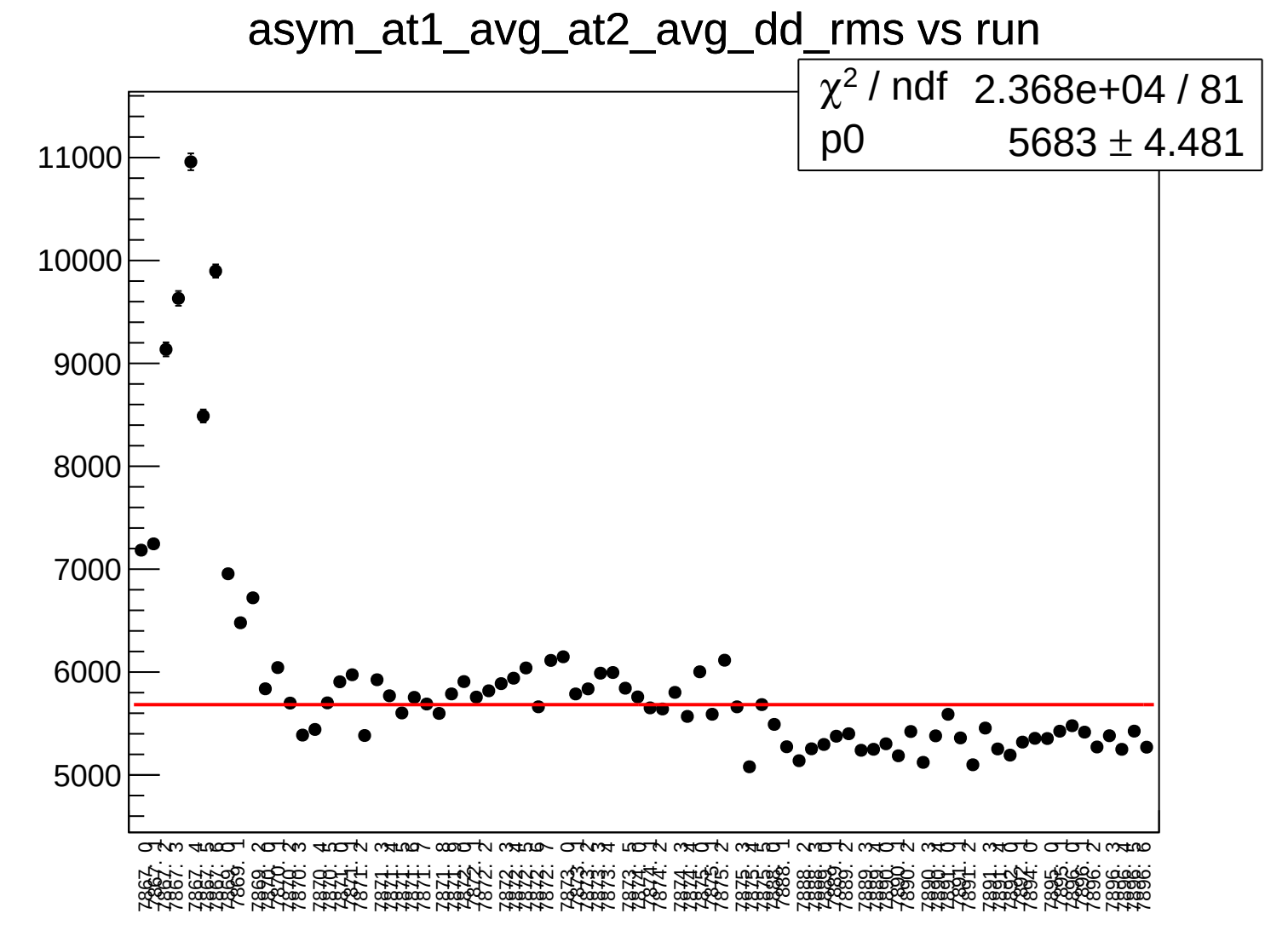
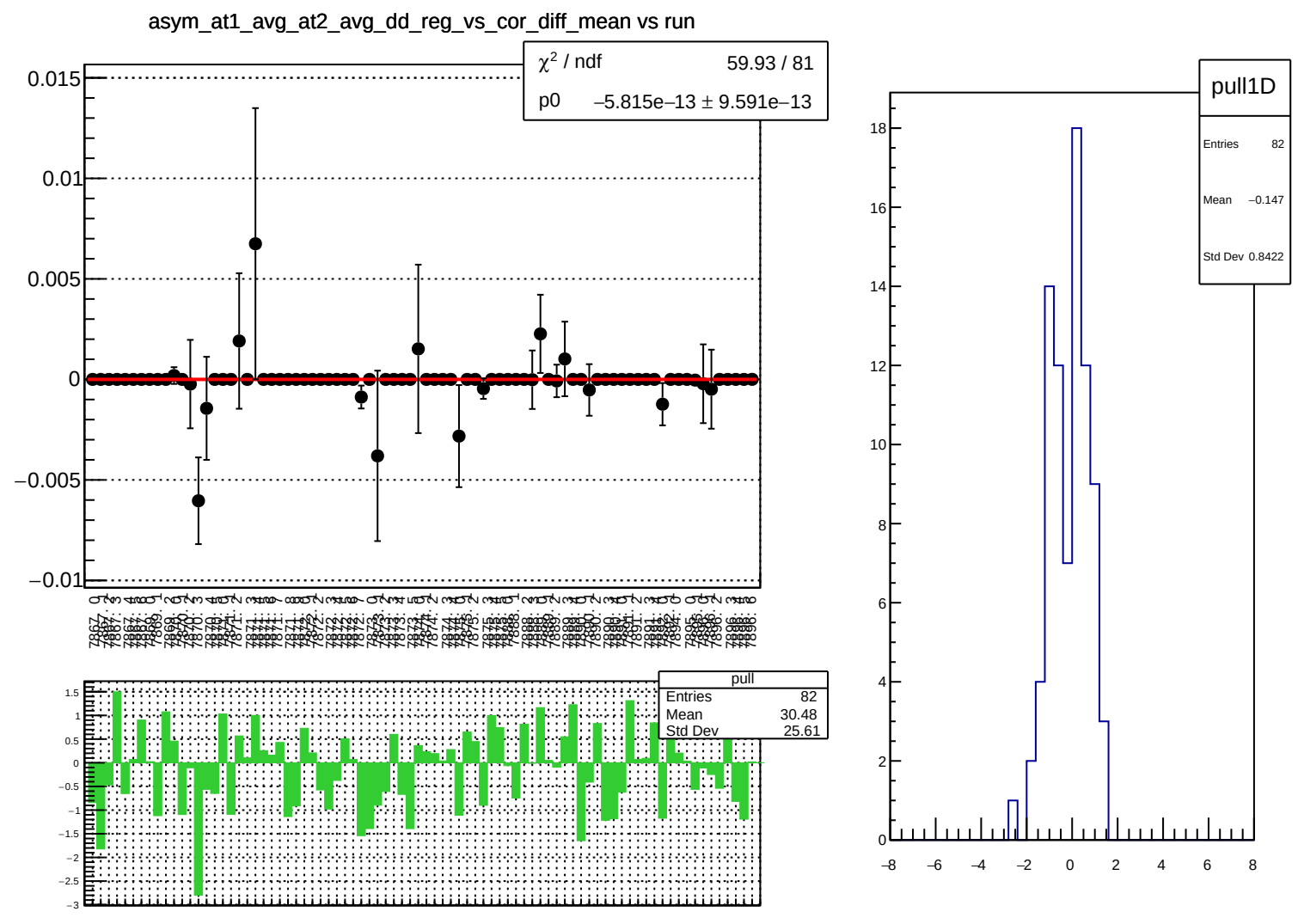
−4
−2
0
2
4
6
8

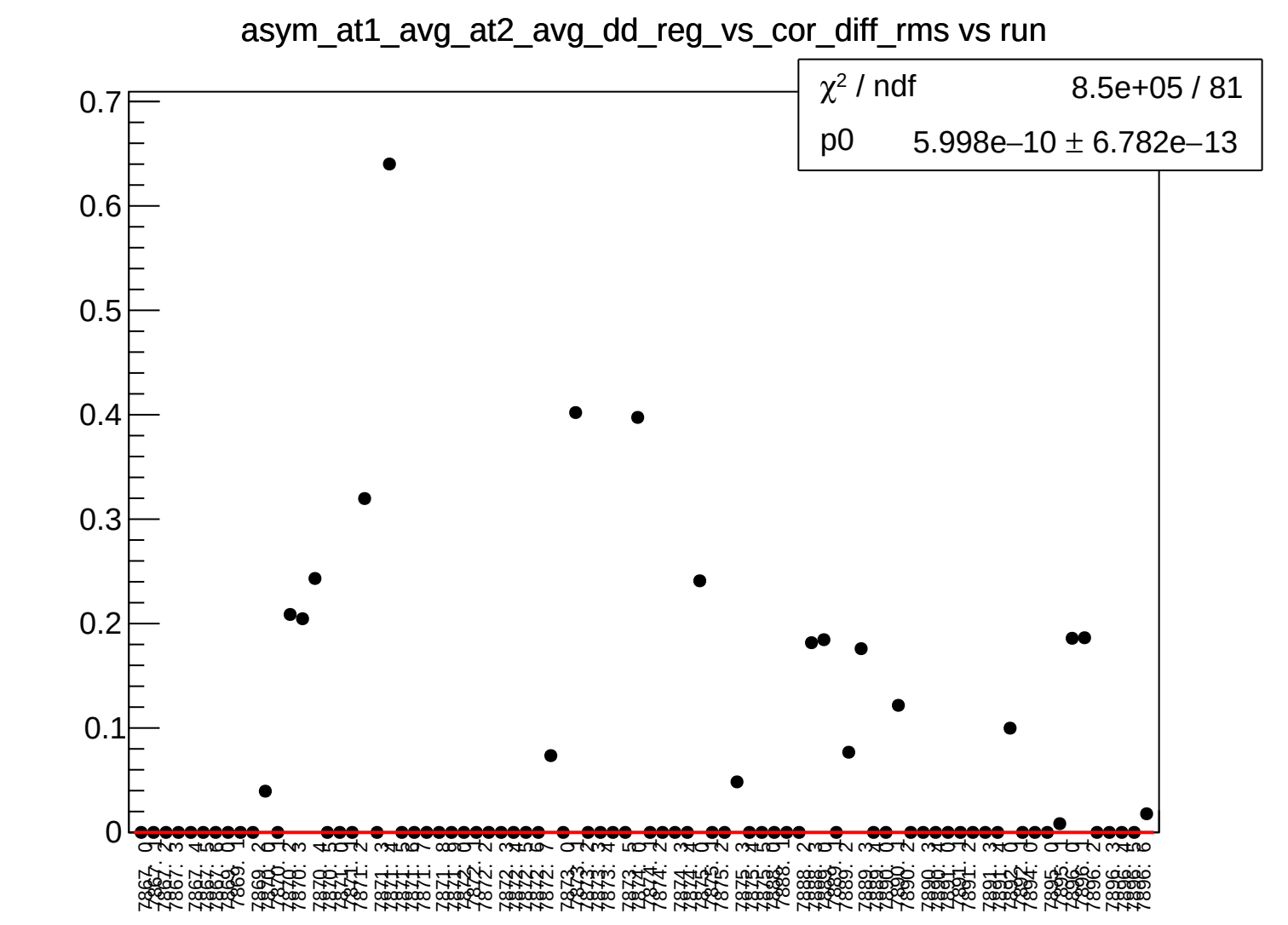

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.921e+04 / 81
p0 5577 ± 4.405
11000
10000
9000
8000
7000
6000
5000

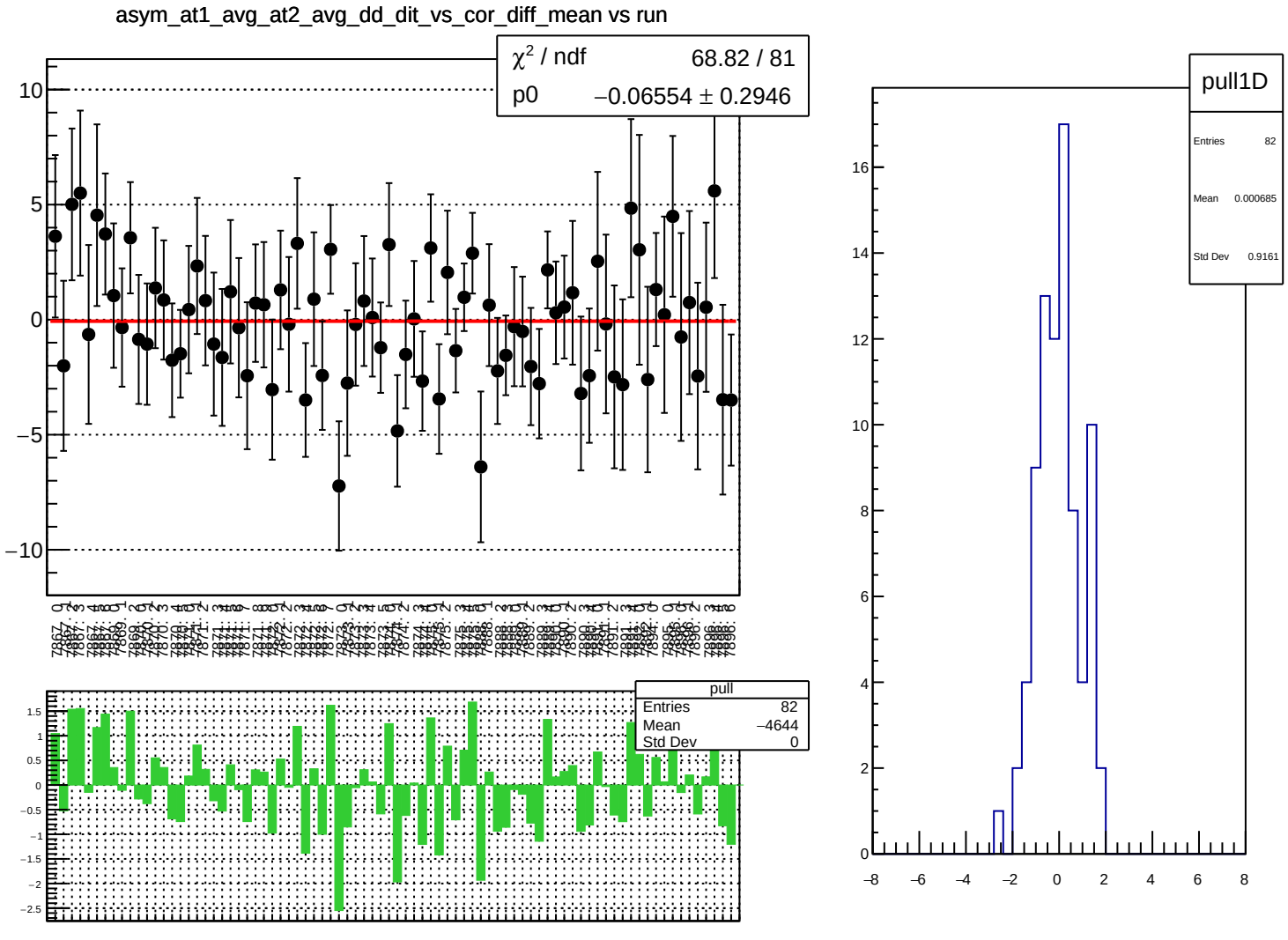

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ^2 / ndf 65.4 / 81
p0 2222 ± 6337
200
100
0
−100
−200
pull
Entries 82
Mean −145.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

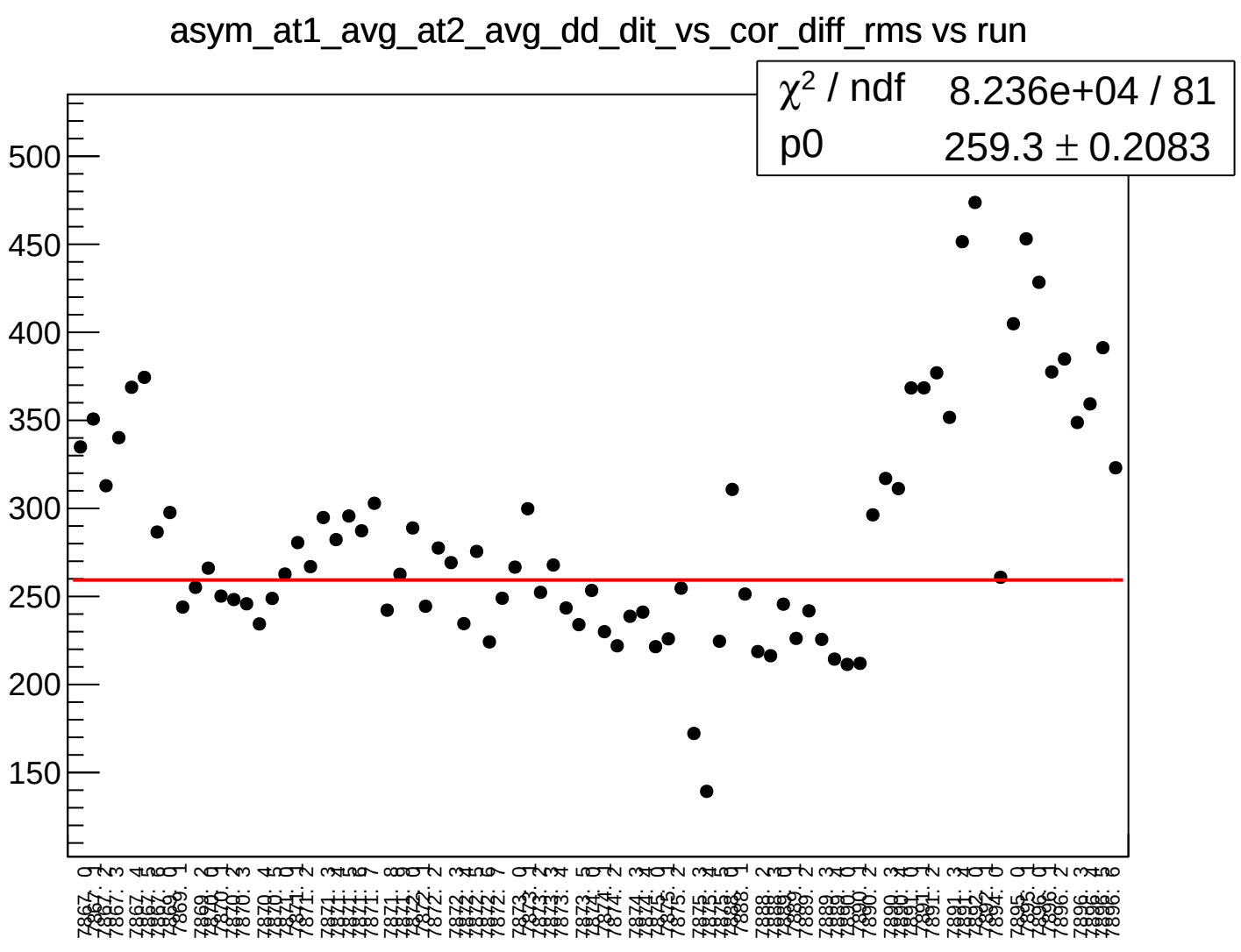

pull1D
Entries 82
Mean 0.01637
Std Dev 0.8929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

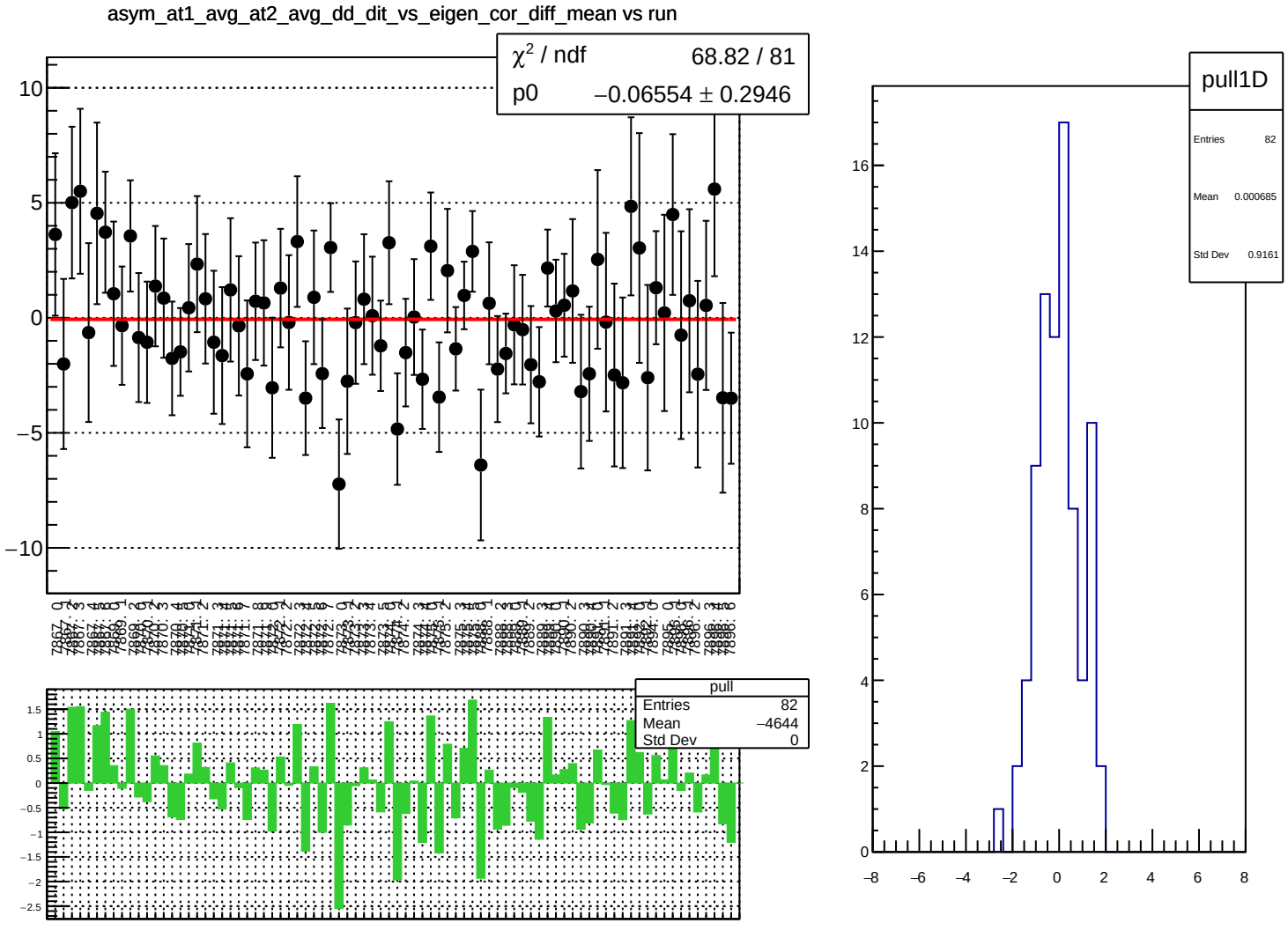

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 2.368e+04 / 81
p0 5683 ± 4.481
11000
10000
9000
8000
7000
6000
5000

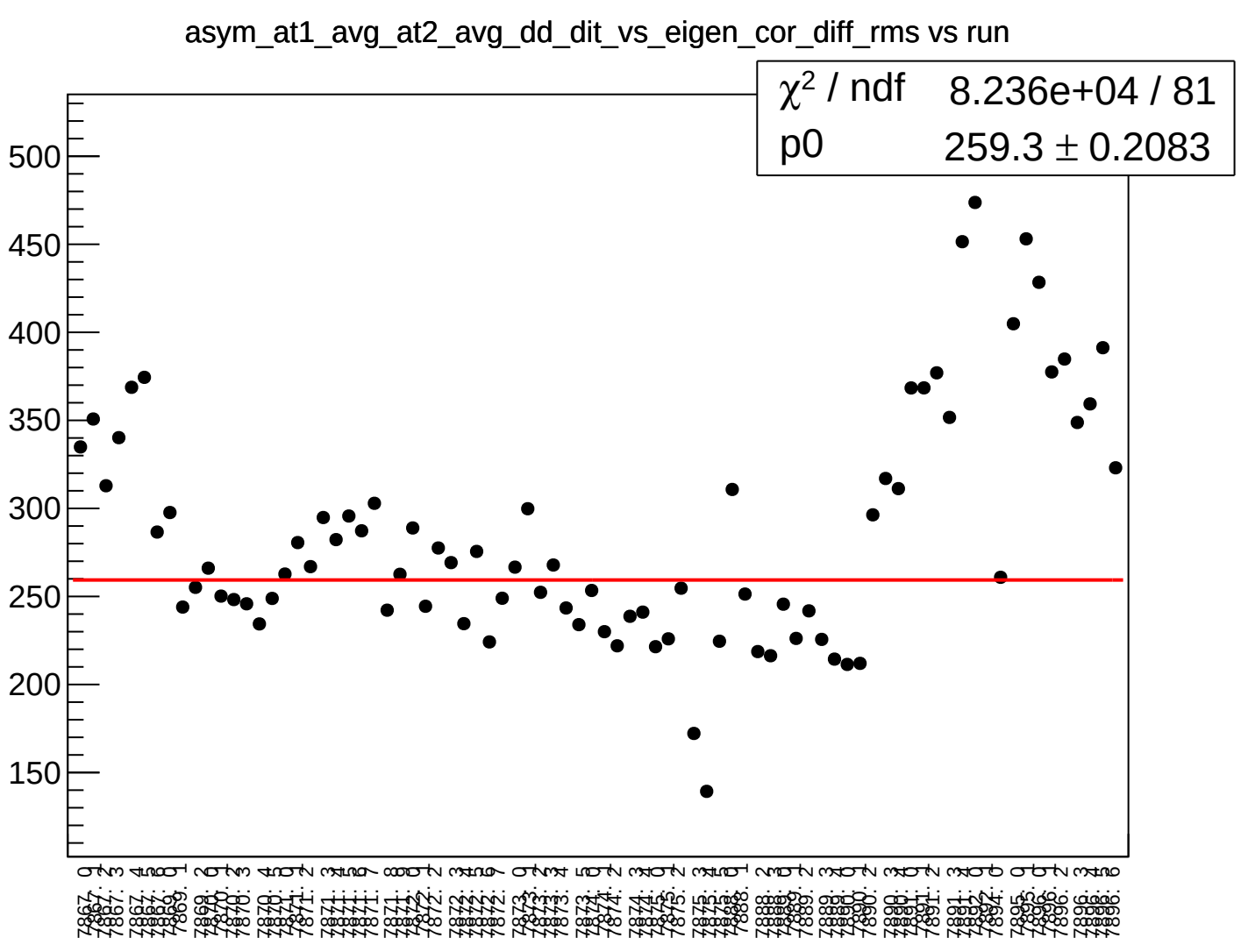

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.93 / 81
p0 −5.815e−13 ± 9.591e−13
pull
Entries 82
Mean 30.48
Std Dev 25.61
pull1D
Entries 82
Mean −0.147
Std Dev 0.8422

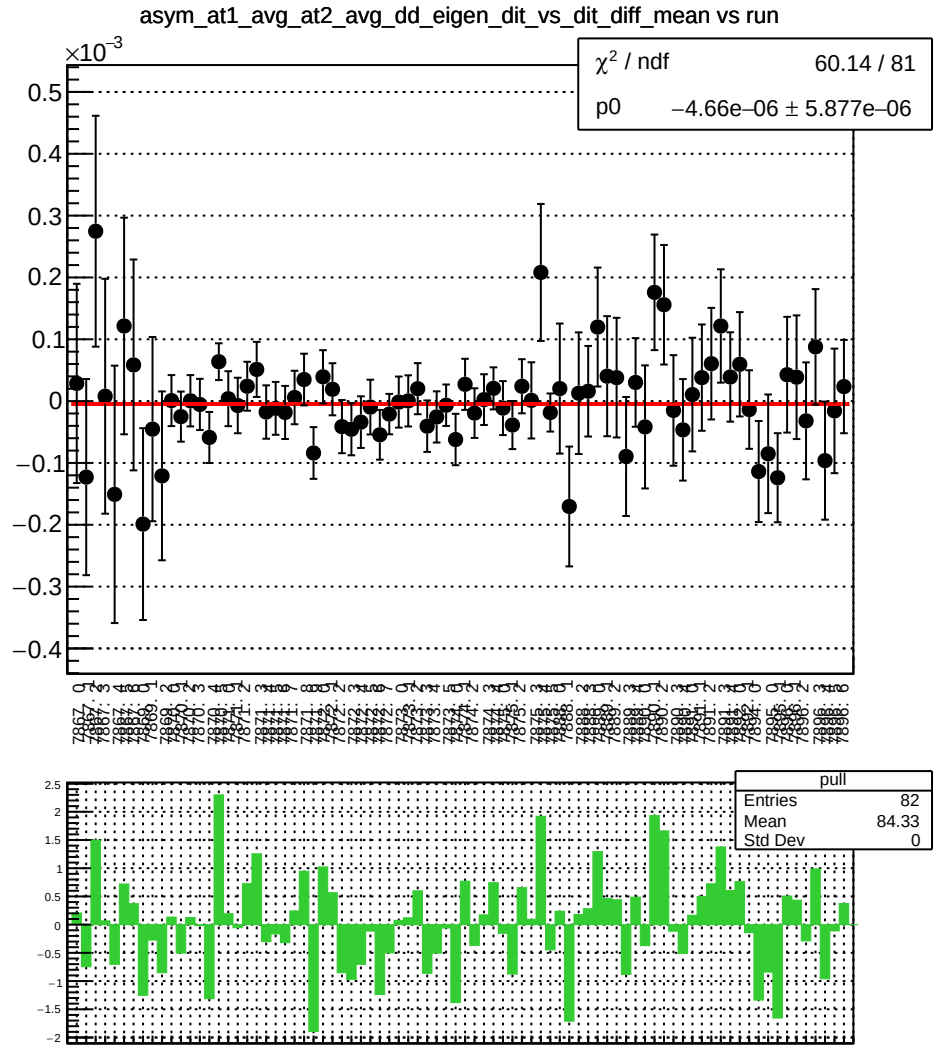

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.5e+05 / 81
p0 5.998e−10 ± 6.782e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

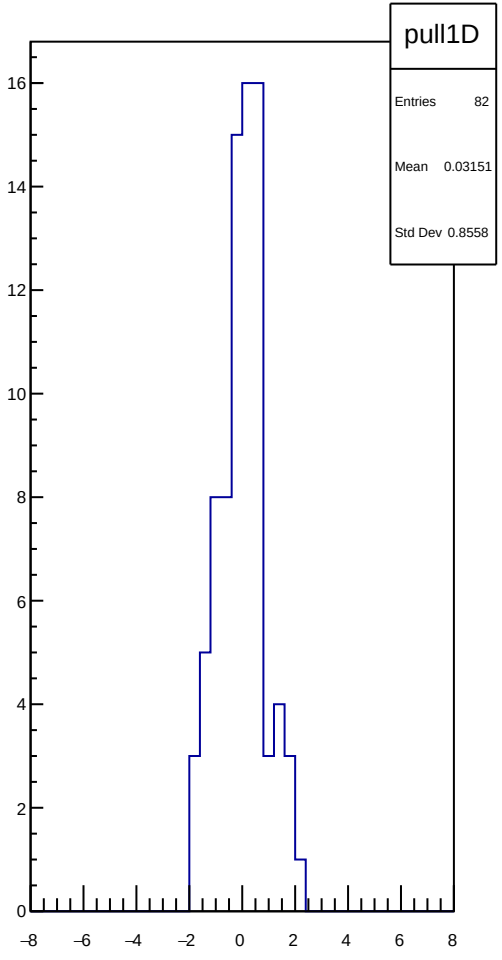

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4644
Std Dev 0
pull1D
Entries 82
Mean 0.000685
Std Dev 0.9161

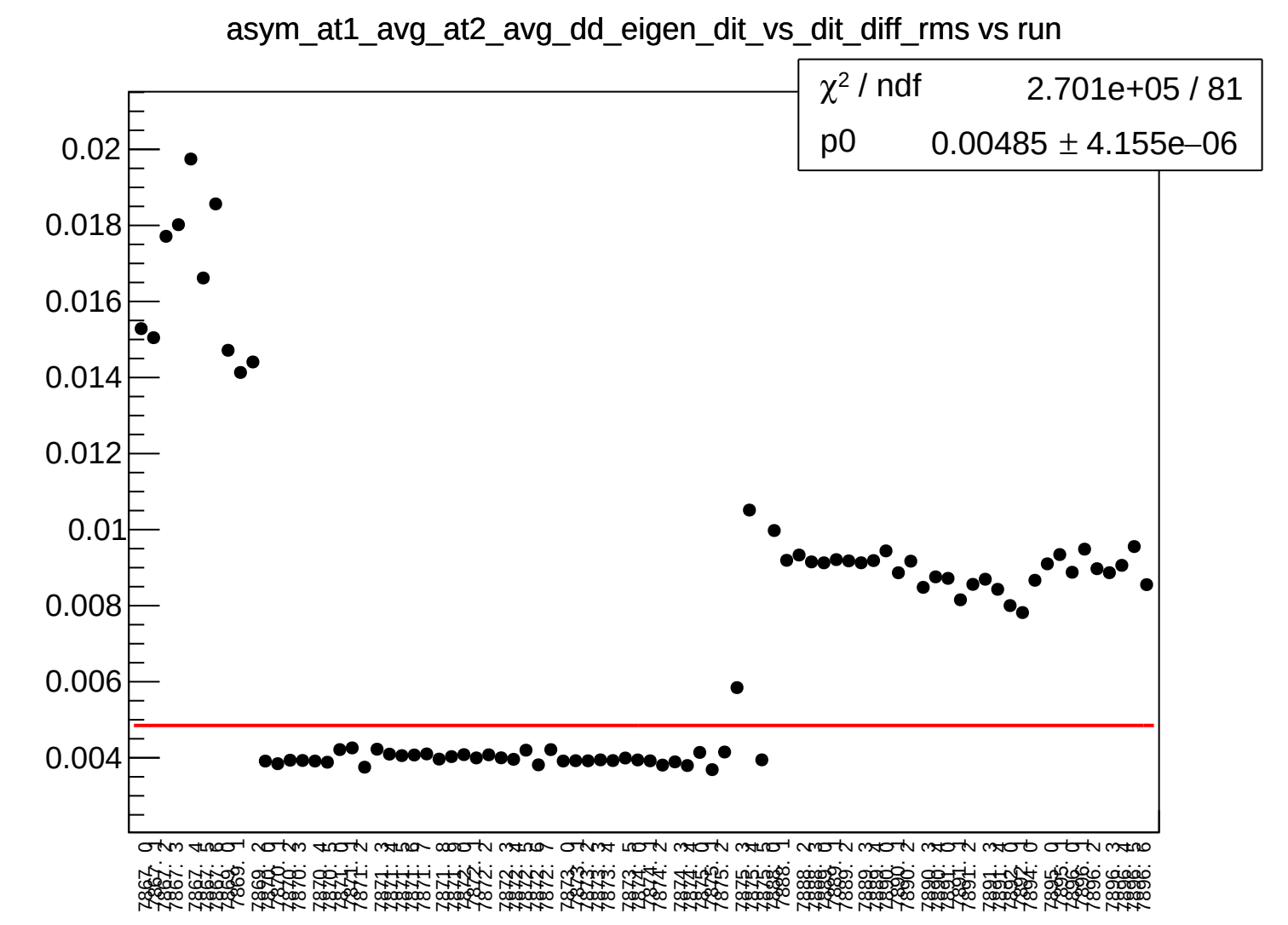

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

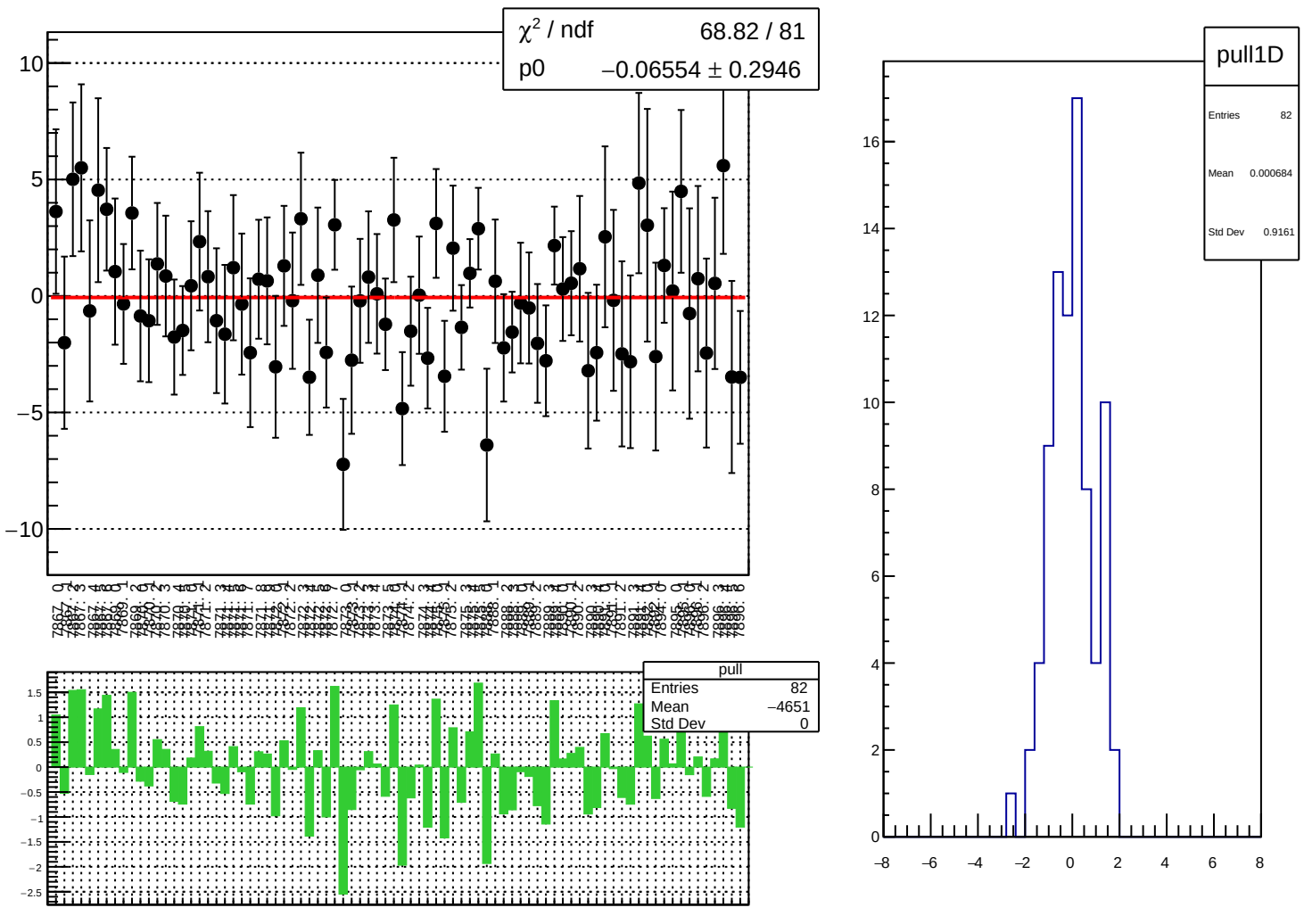

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4644
Std Dev 0
pull1D
Entries 82
Mean 0.000685
Std Dev 0.9161

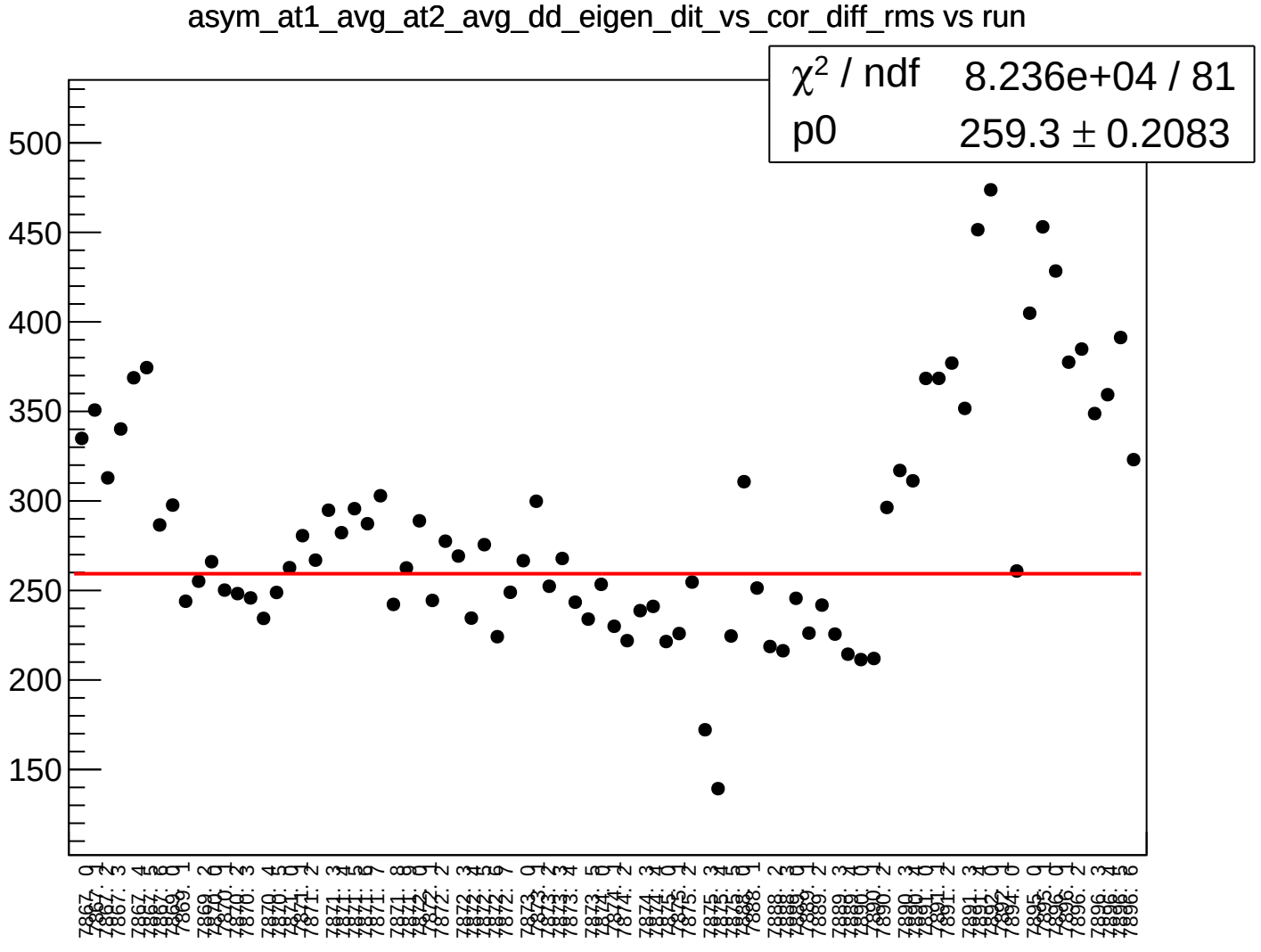

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

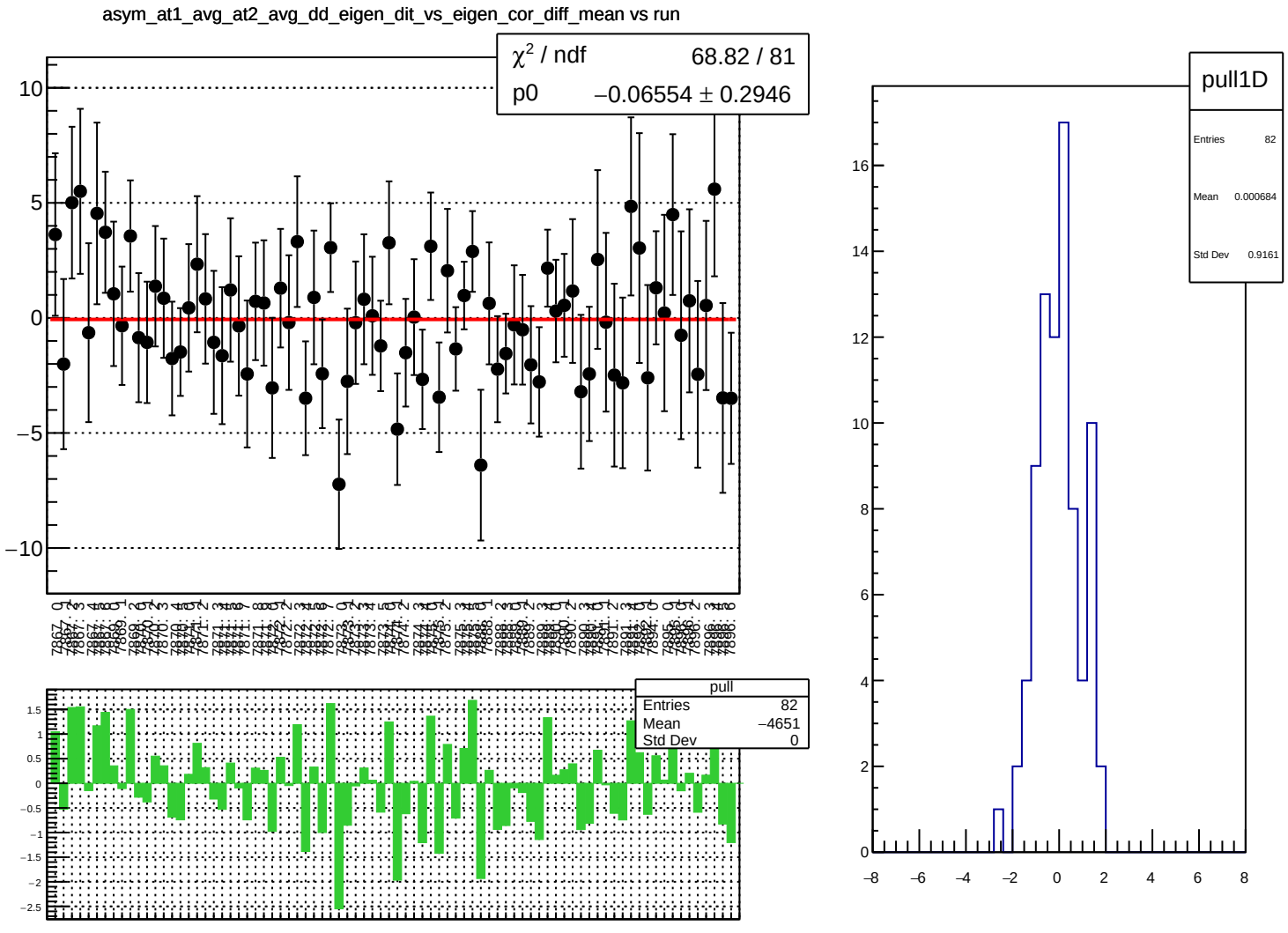

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.14 / 81
p0 −4.66e−06 ± 5.877e−06
pull
Entries 82
Mean 84.33
Std Dev 0

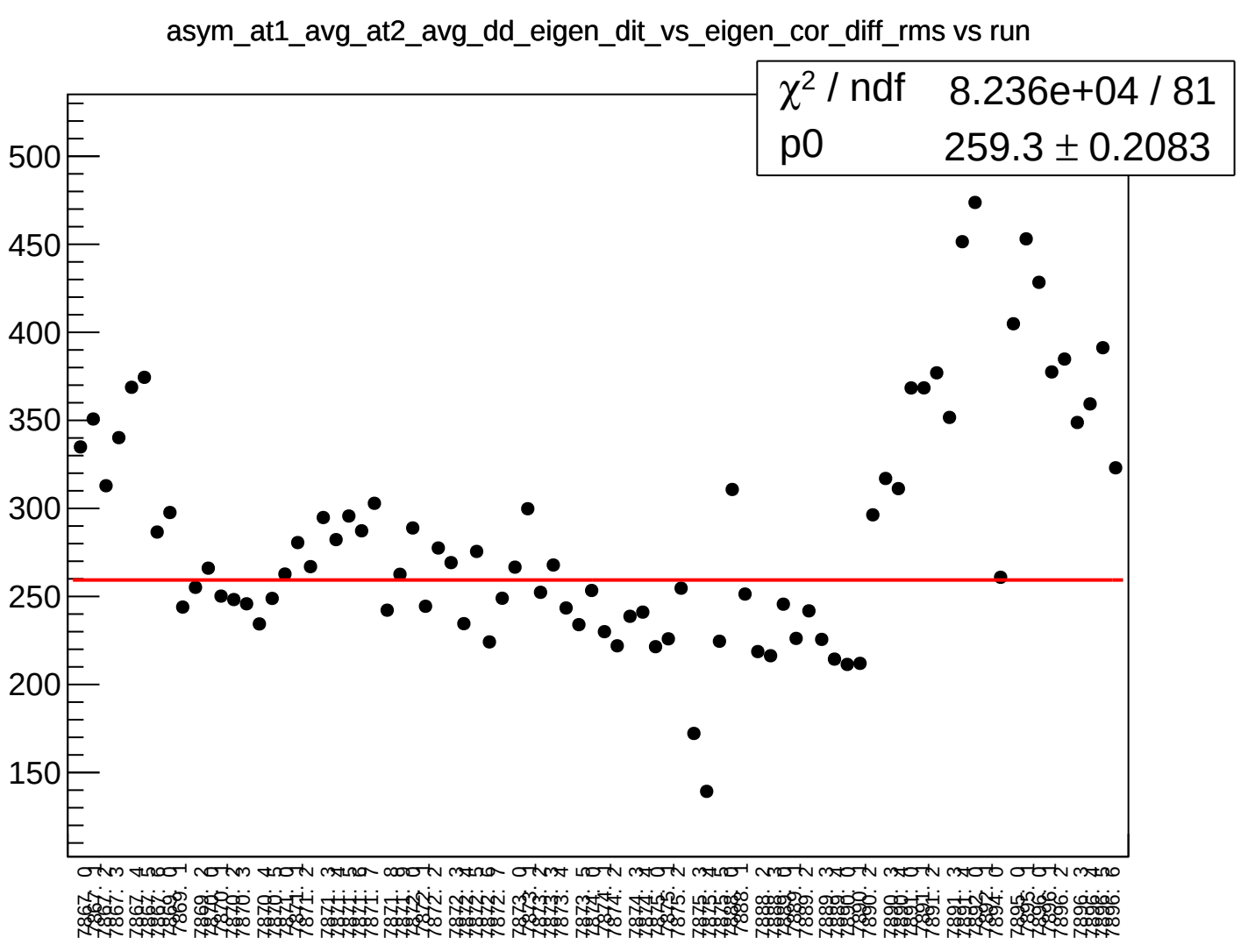

pull1D
Entries 82
Mean 0.03151
Std Dev 0.8558

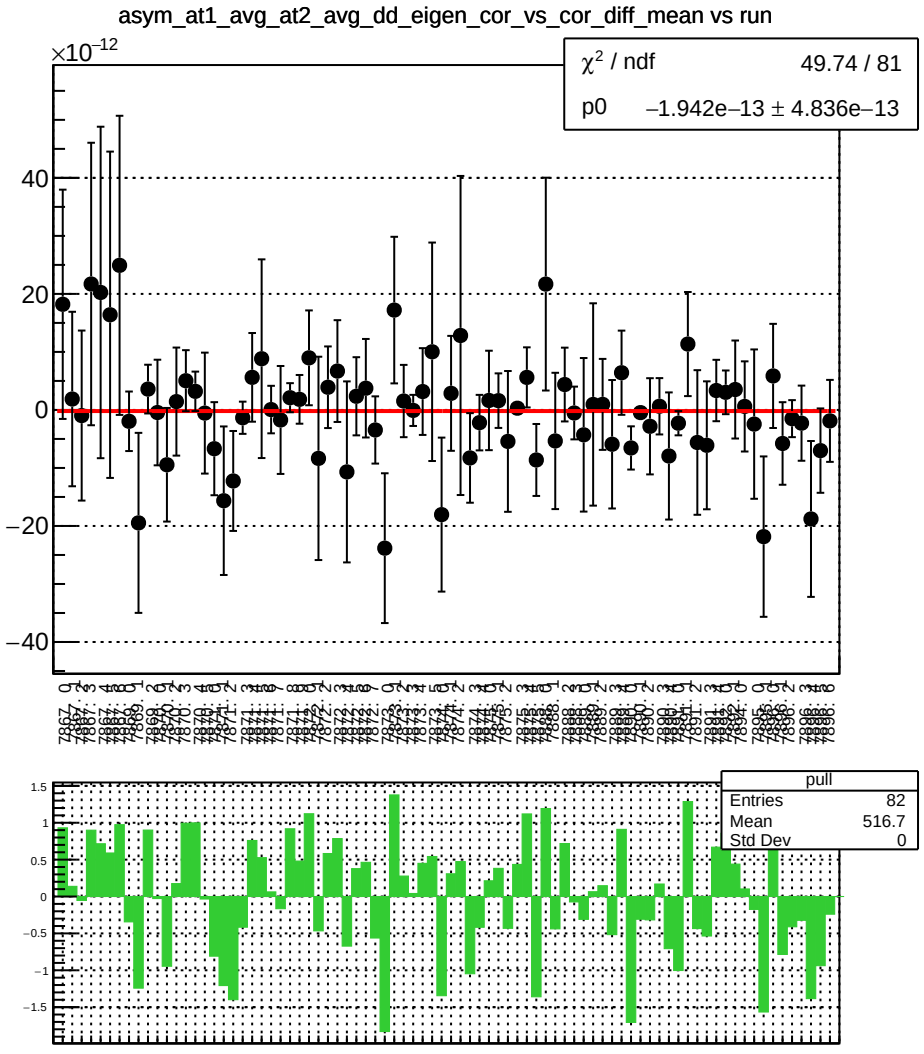

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.701e+05 / 81
p0 0.00485 ± 4.155e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

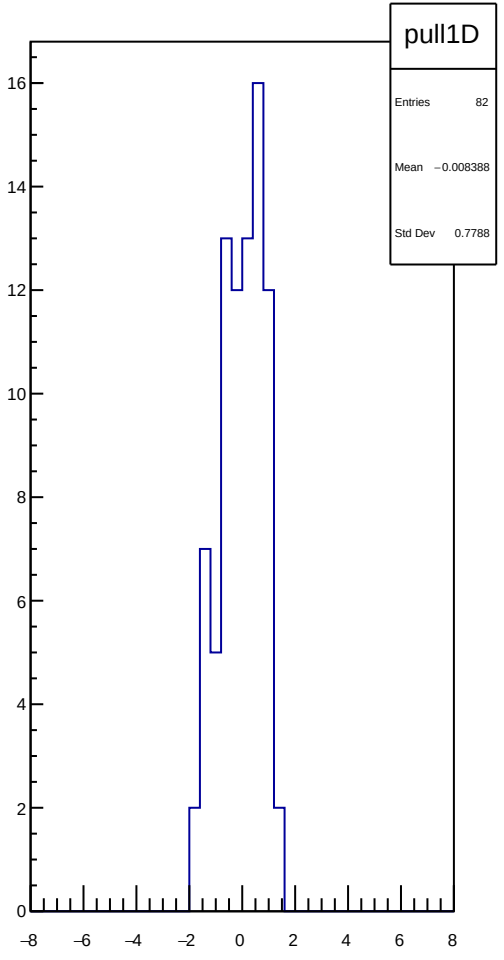

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4651
Std Dev 0
pull1D
Entries 82
Mean 0.000684
Std Dev 0.9161

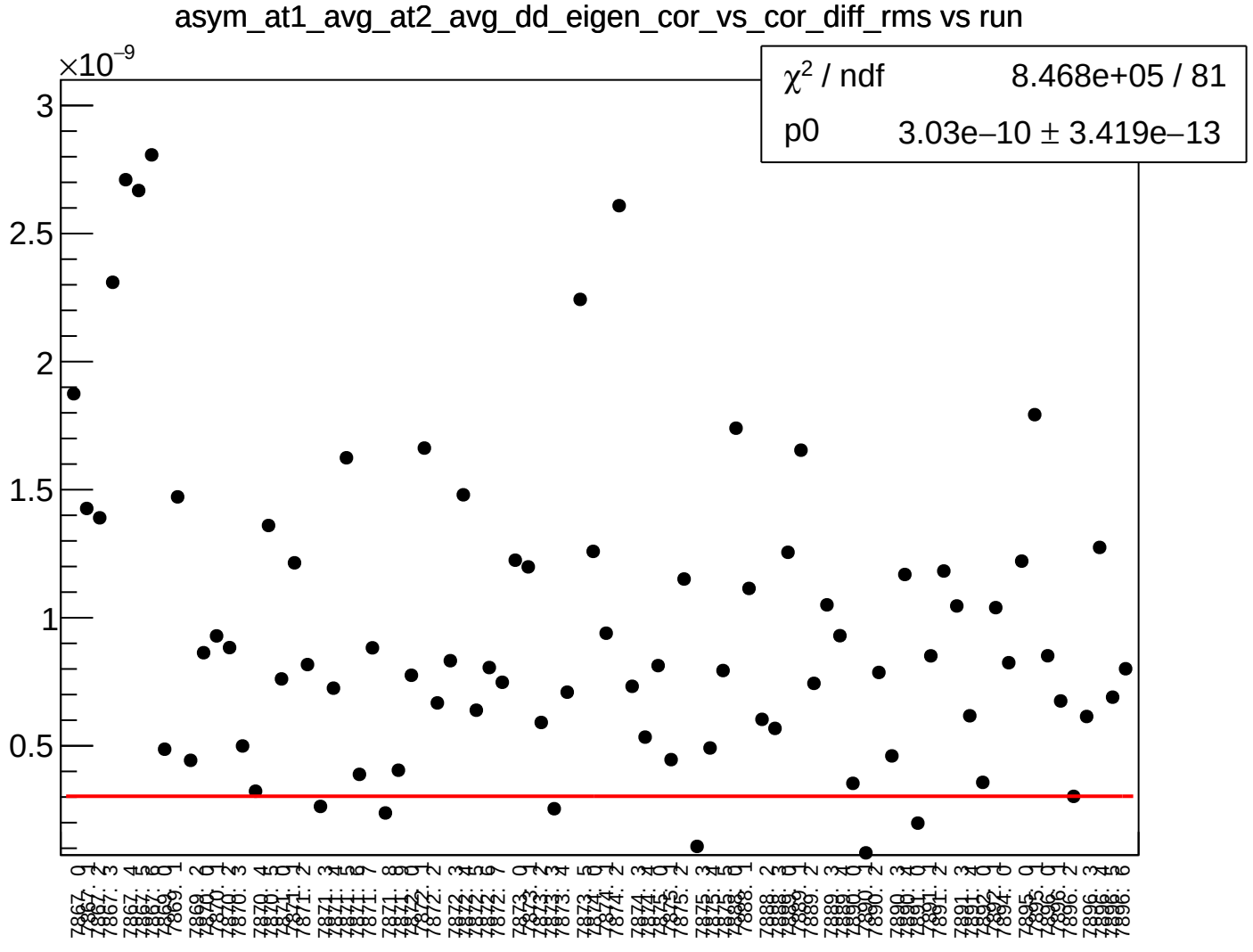

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

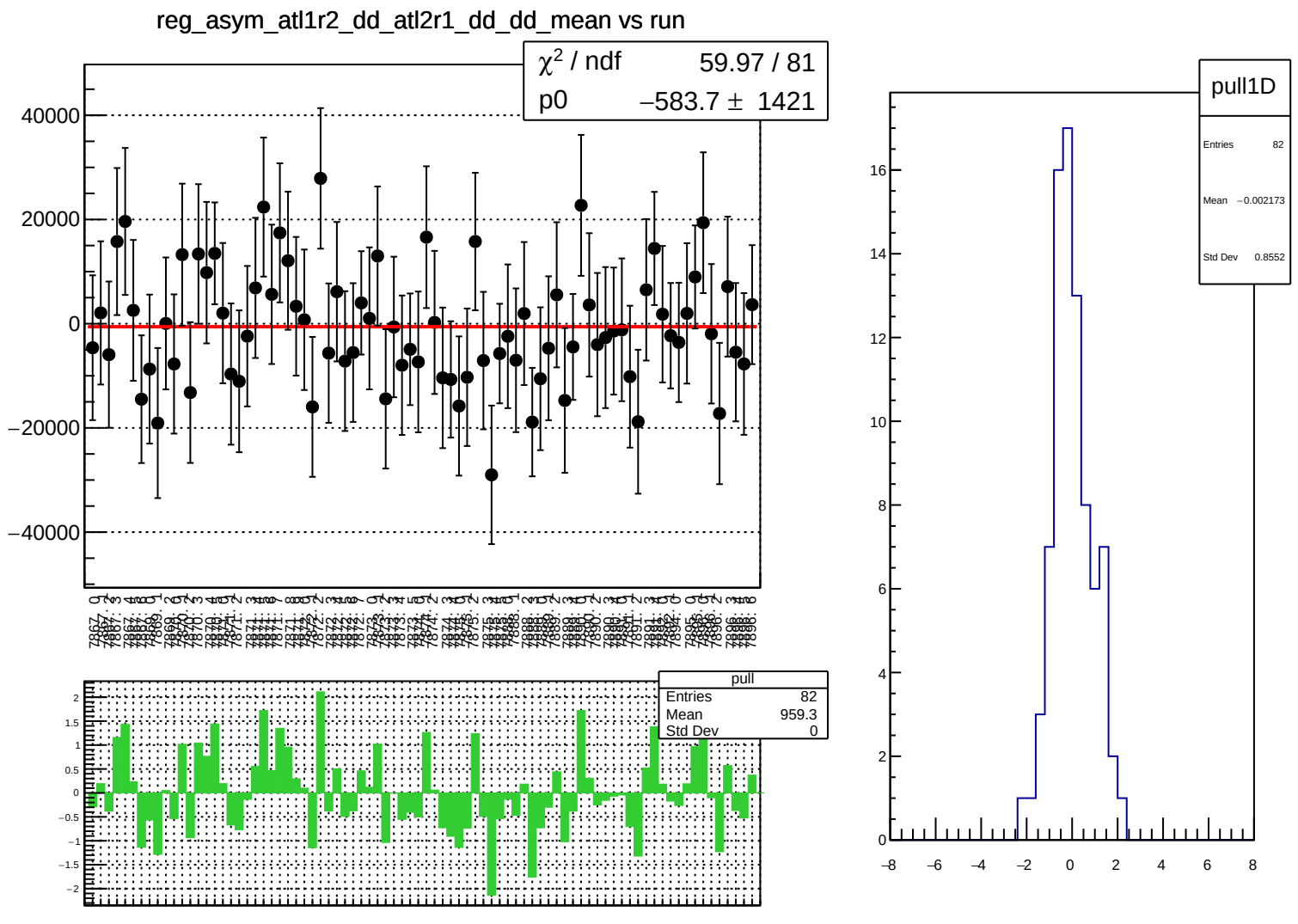

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4651
Std Dev 0
pull1D
Entries 82
Mean 0.000684
Std Dev 0.9161

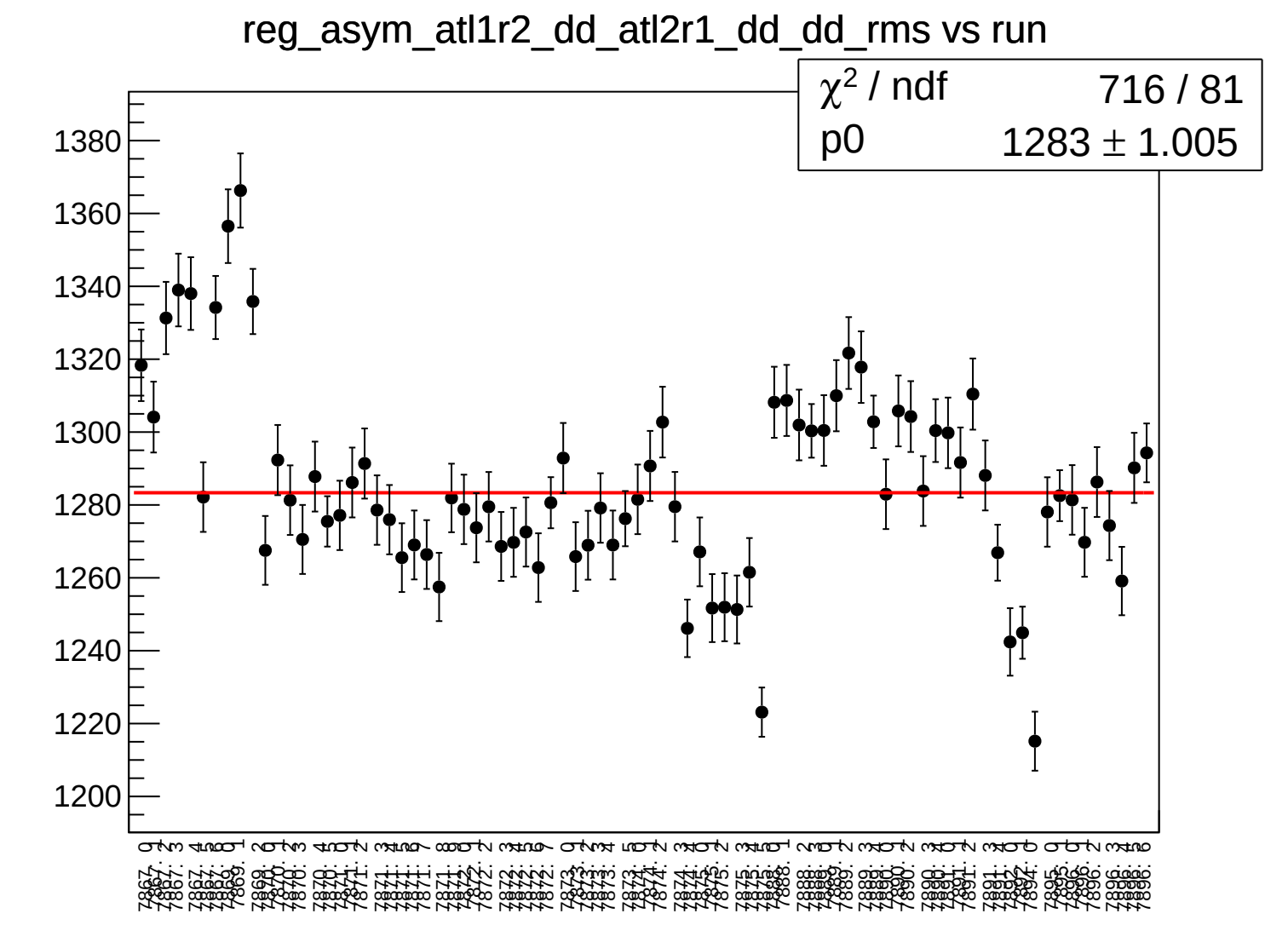

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

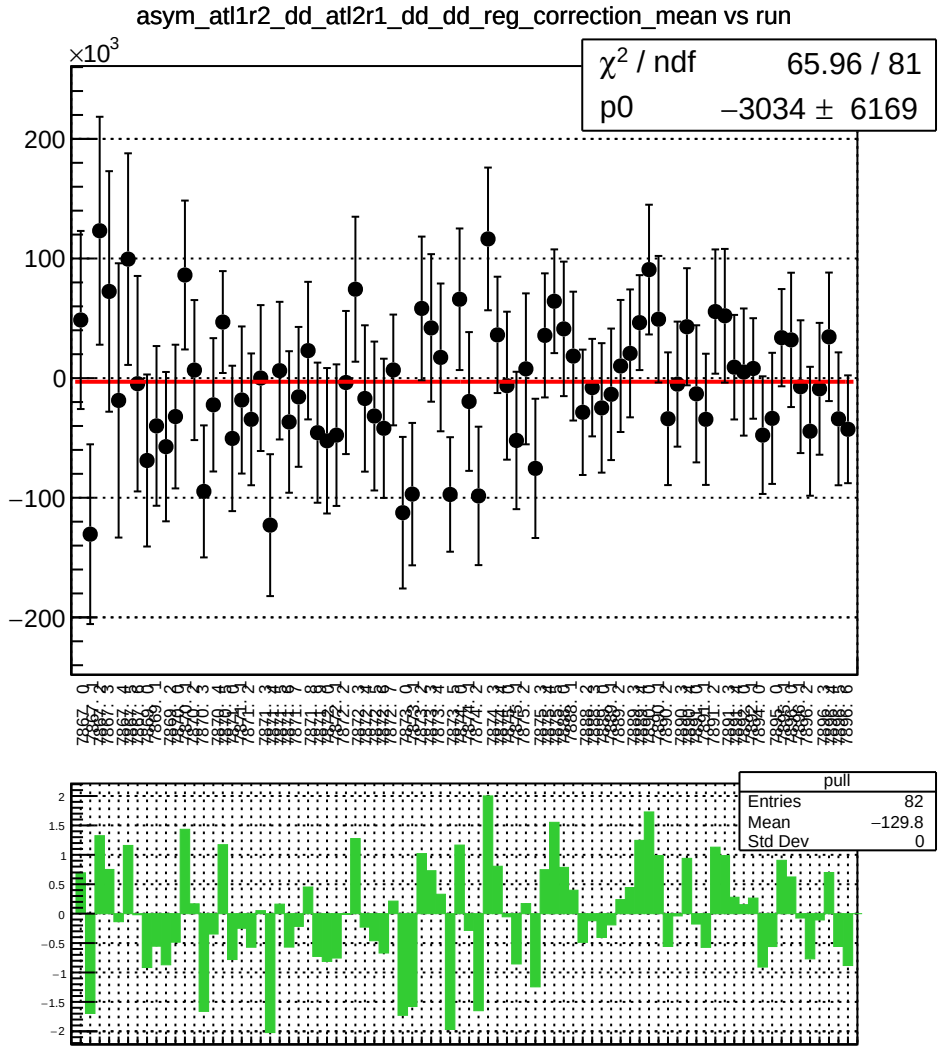

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.74 / 81
p0 −1.942e−13 ± 4.836e−13
40
20
0
−20
−40
pull
Entries 82
Mean 516.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

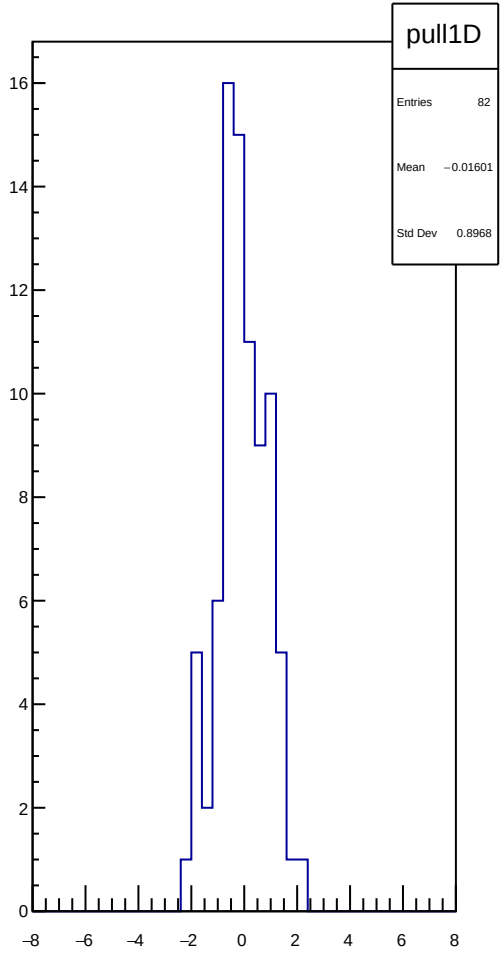

pull1D
Entries 82
Mean −0.008388
Std Dev 0.7788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

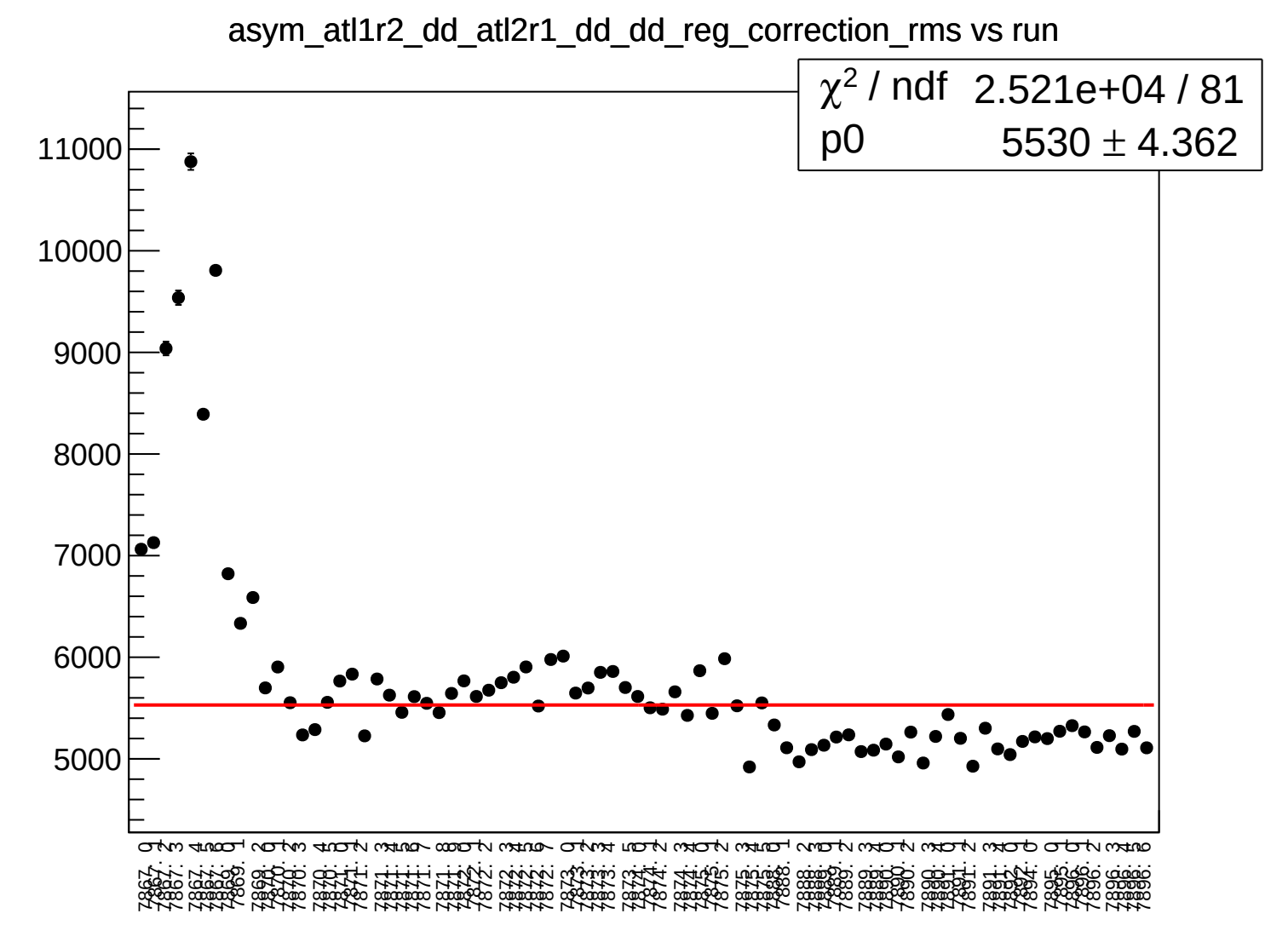

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.468e+05 / 81
p0 3.03e−10 ± 3.419e−13
3
2.5
2
1.5
1
0.5

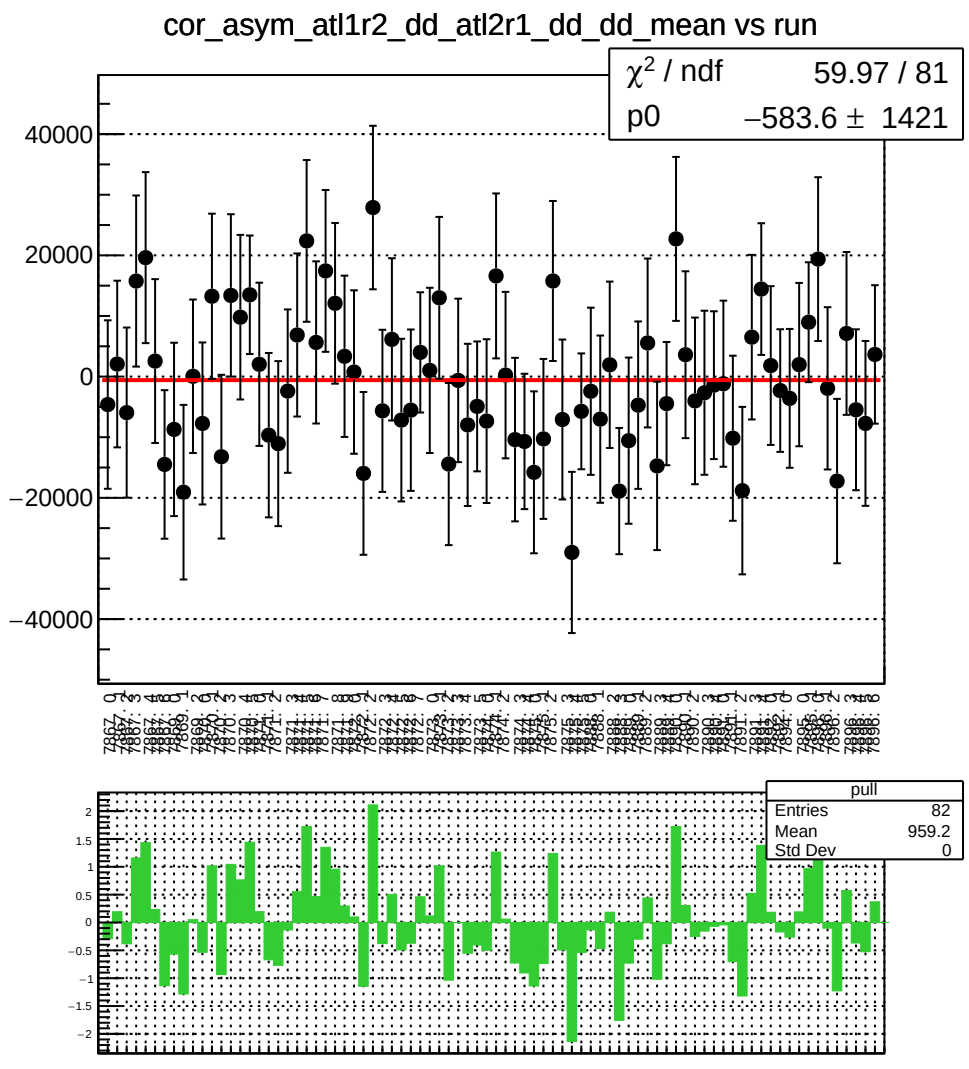

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 59.97 / 81
p0 −583.7 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

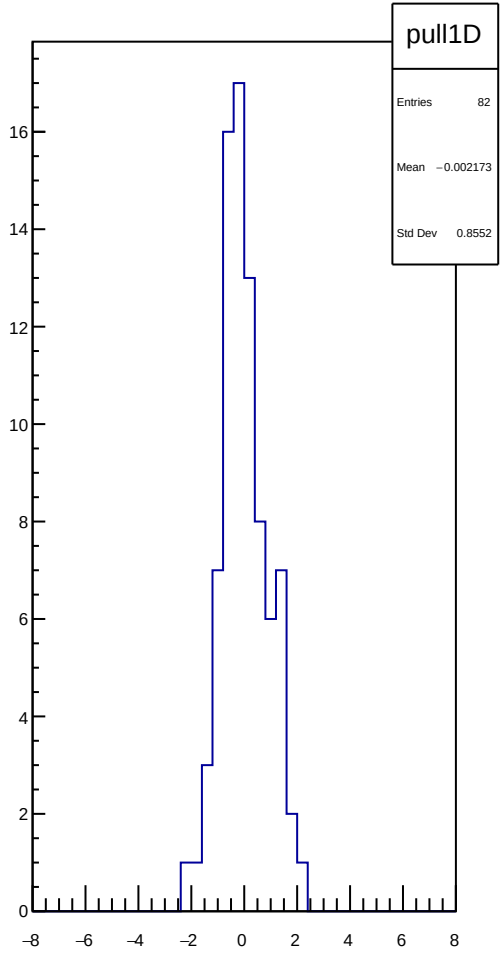

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
×10³
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 59.97 / 81
p0 −583.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
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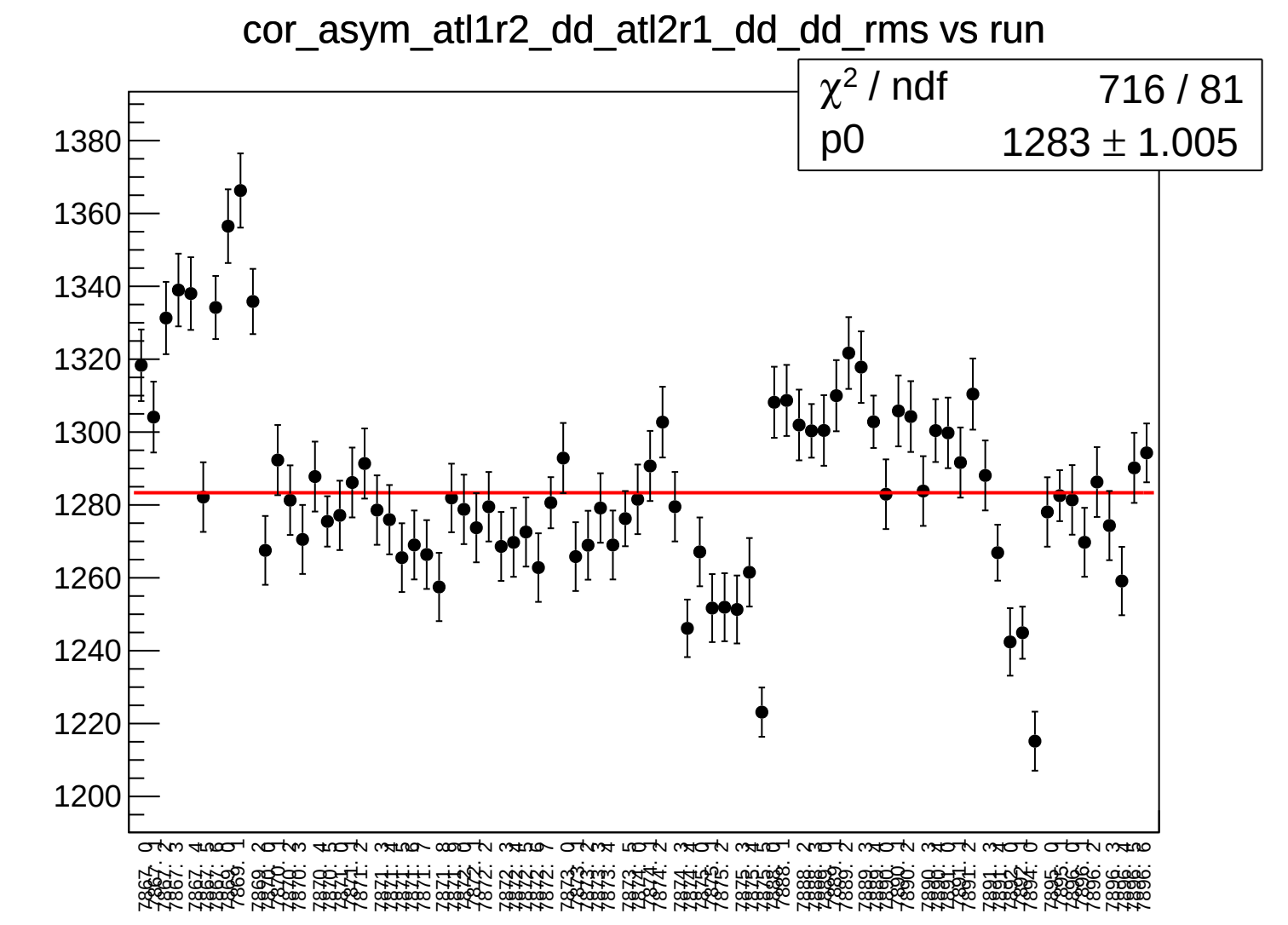
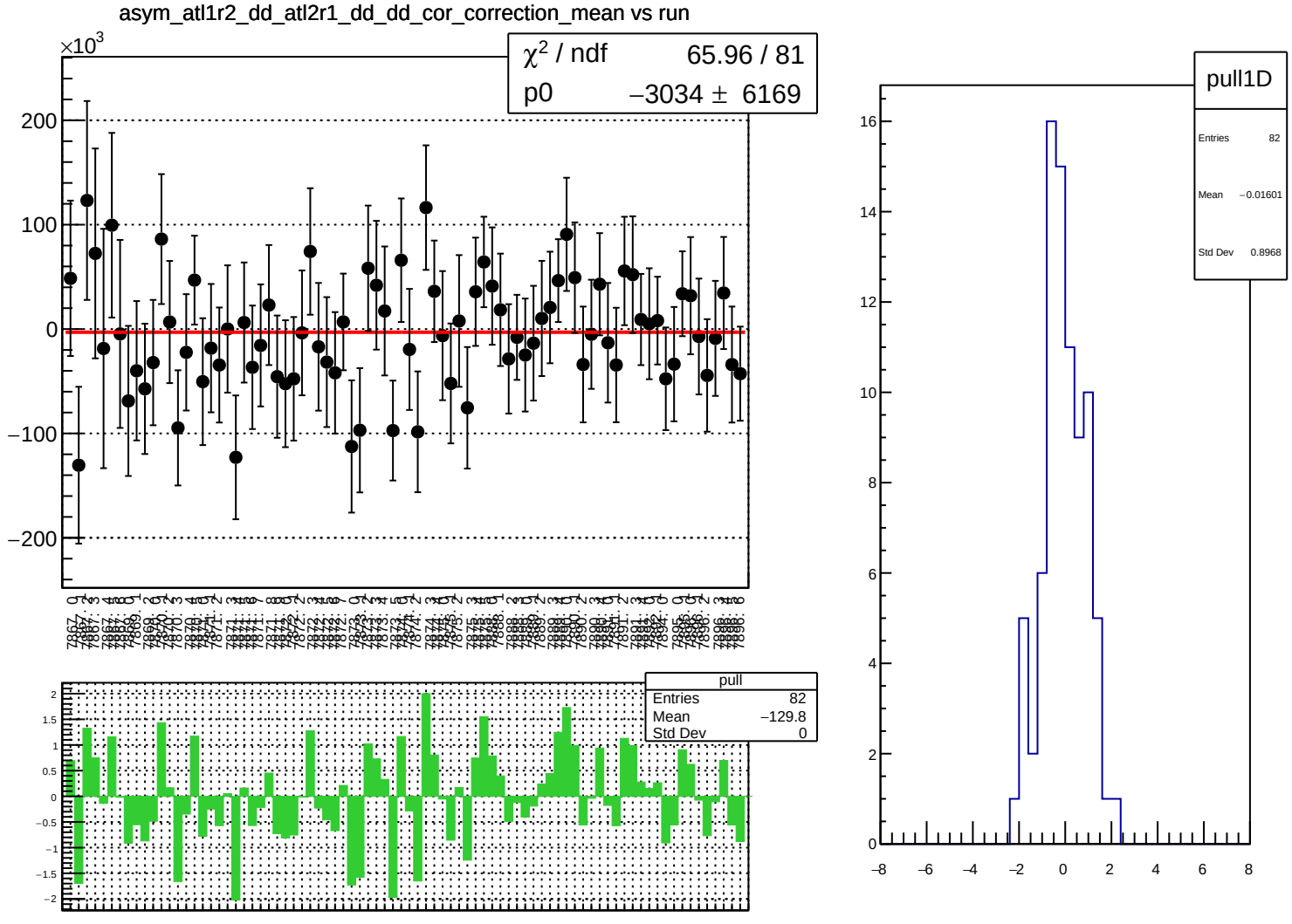
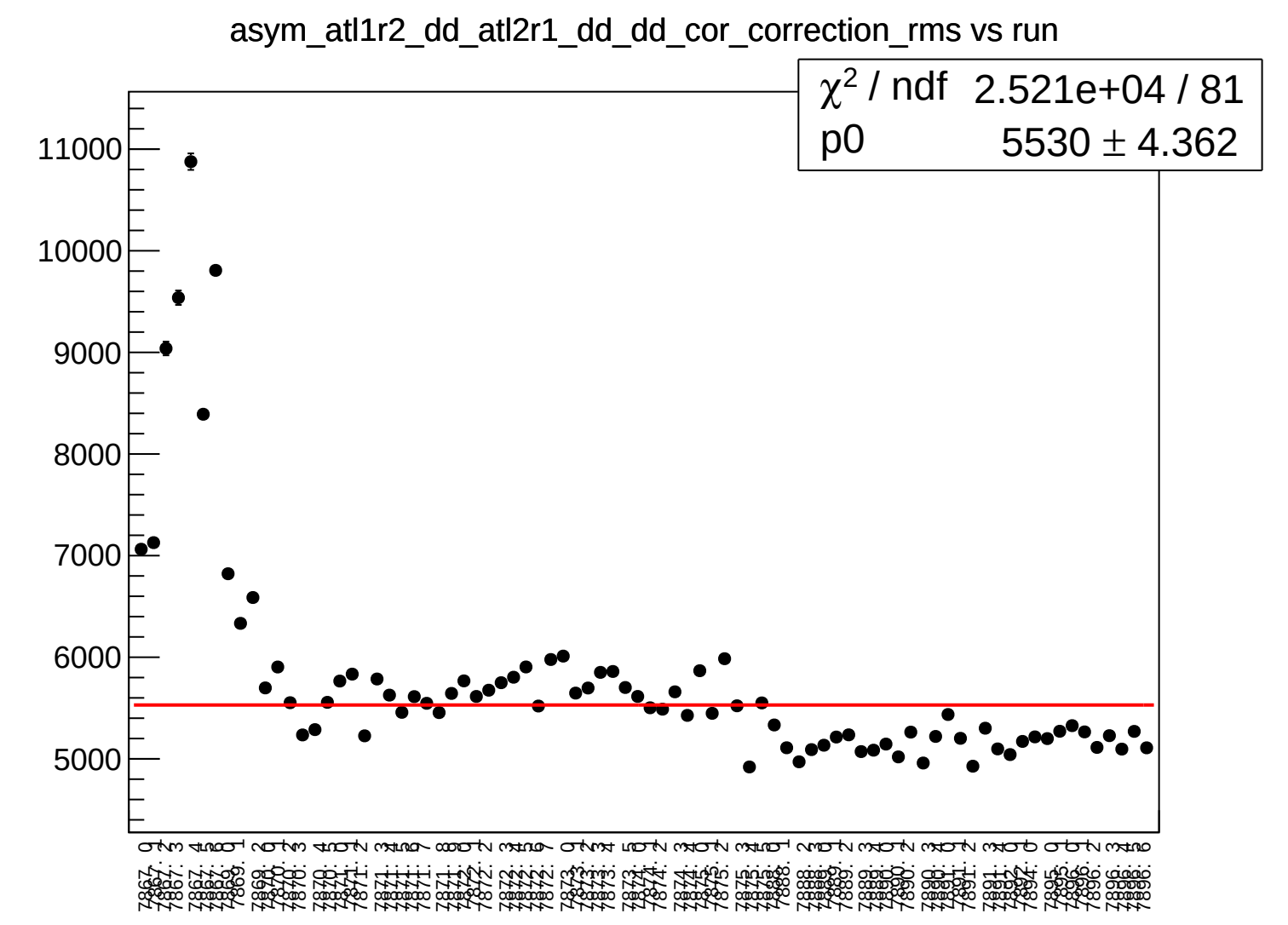
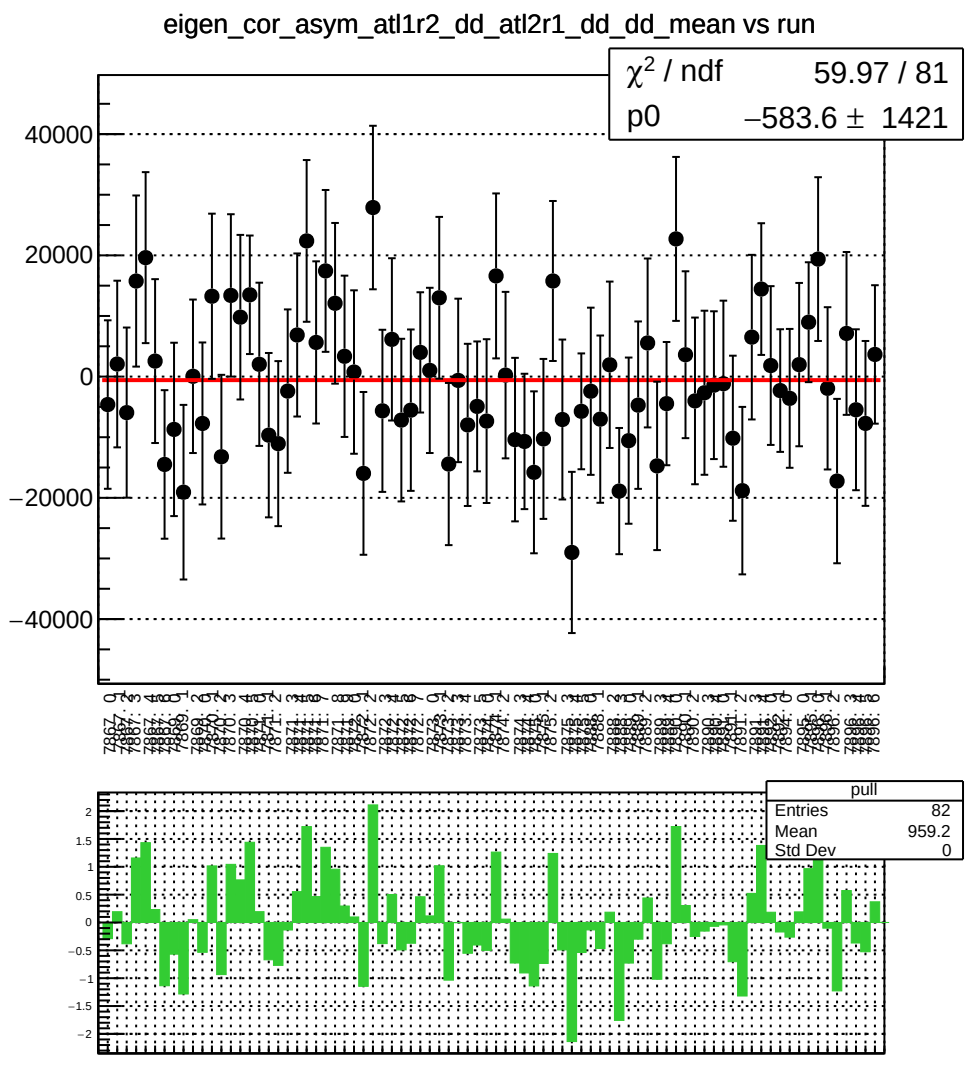
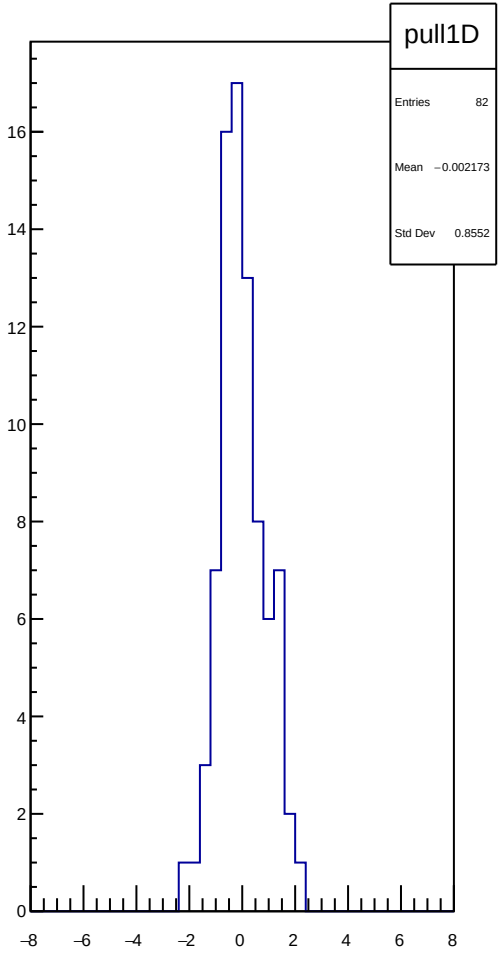
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ^2 / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 59.97 / 81
p0 −583.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.002173
Std Dev 0.8552
16
14
12
10
8
6
4
2
0
−8
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−4
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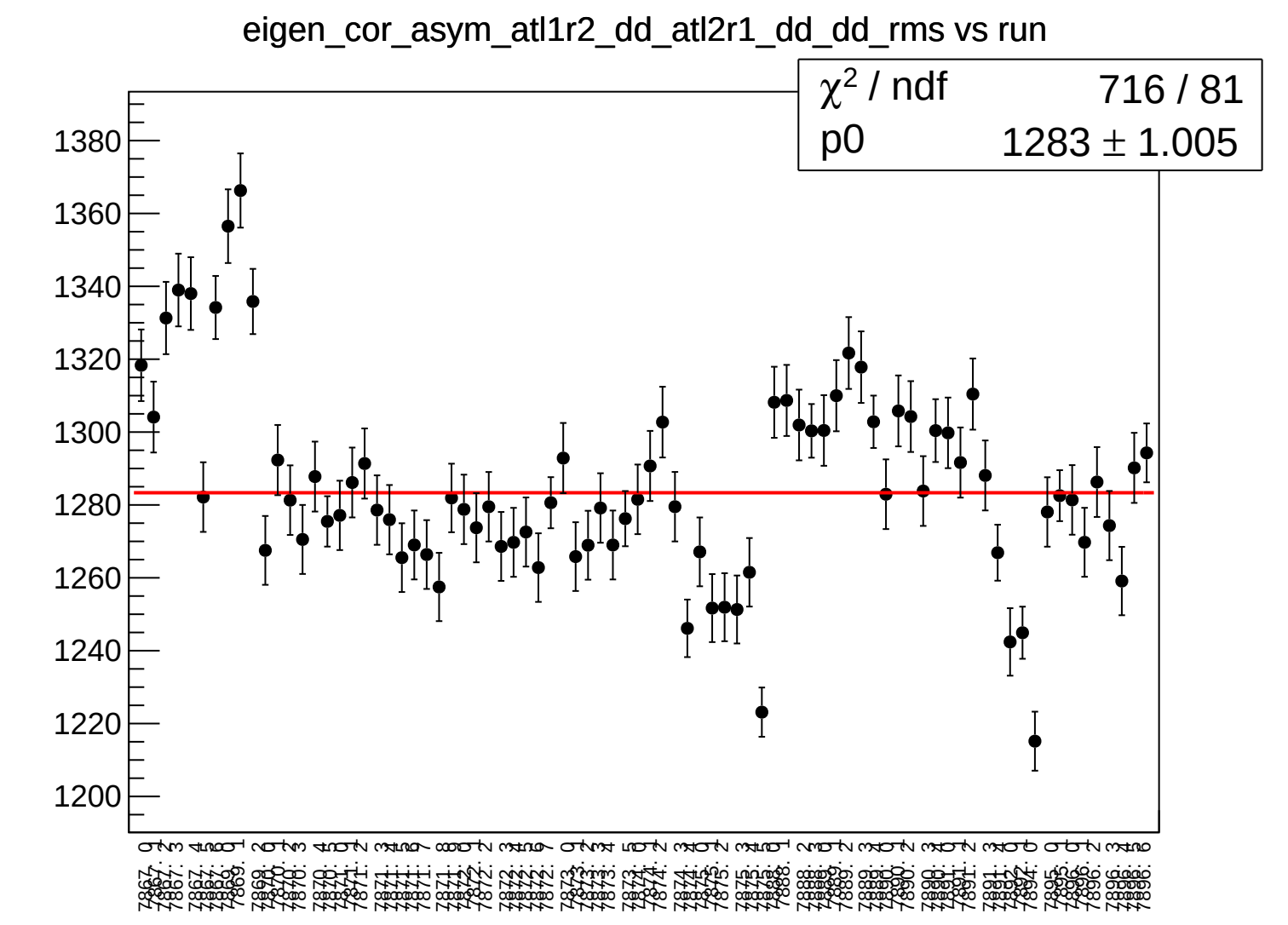
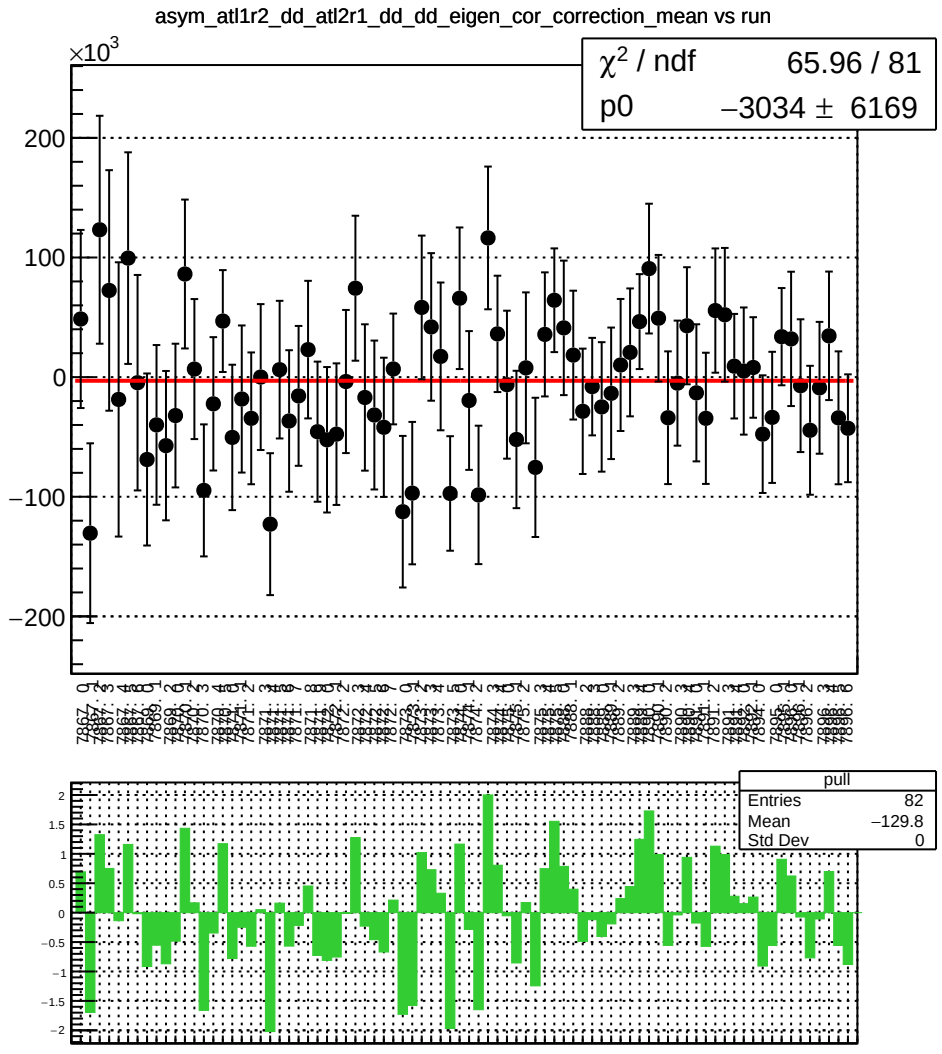
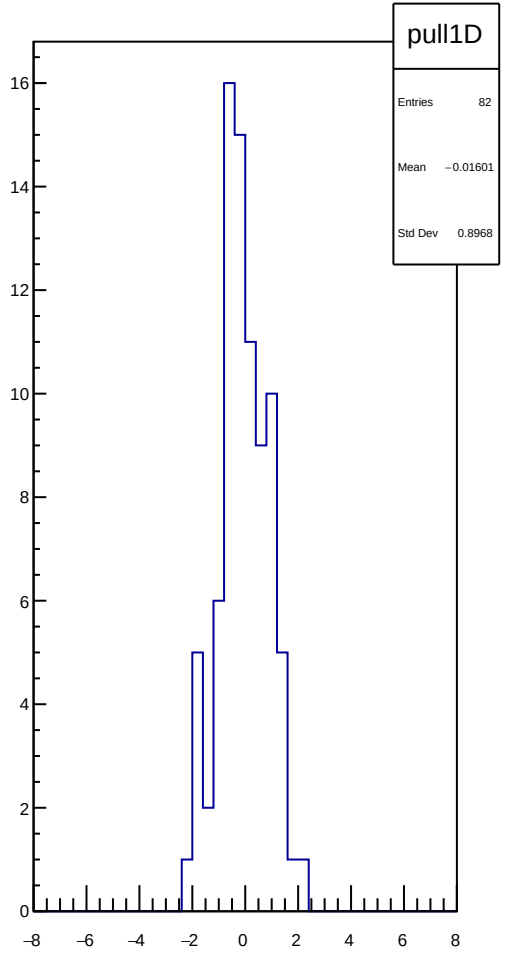
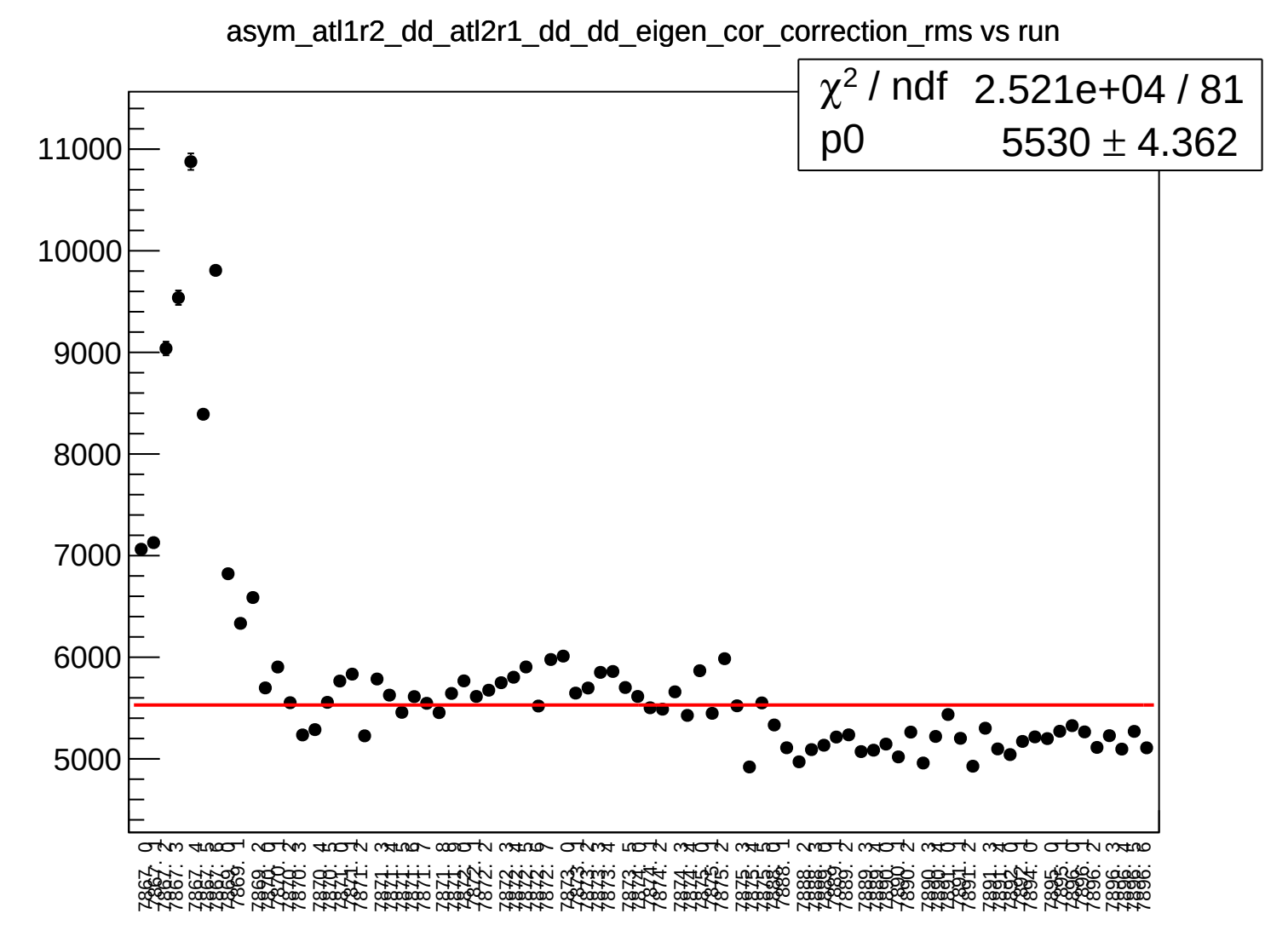
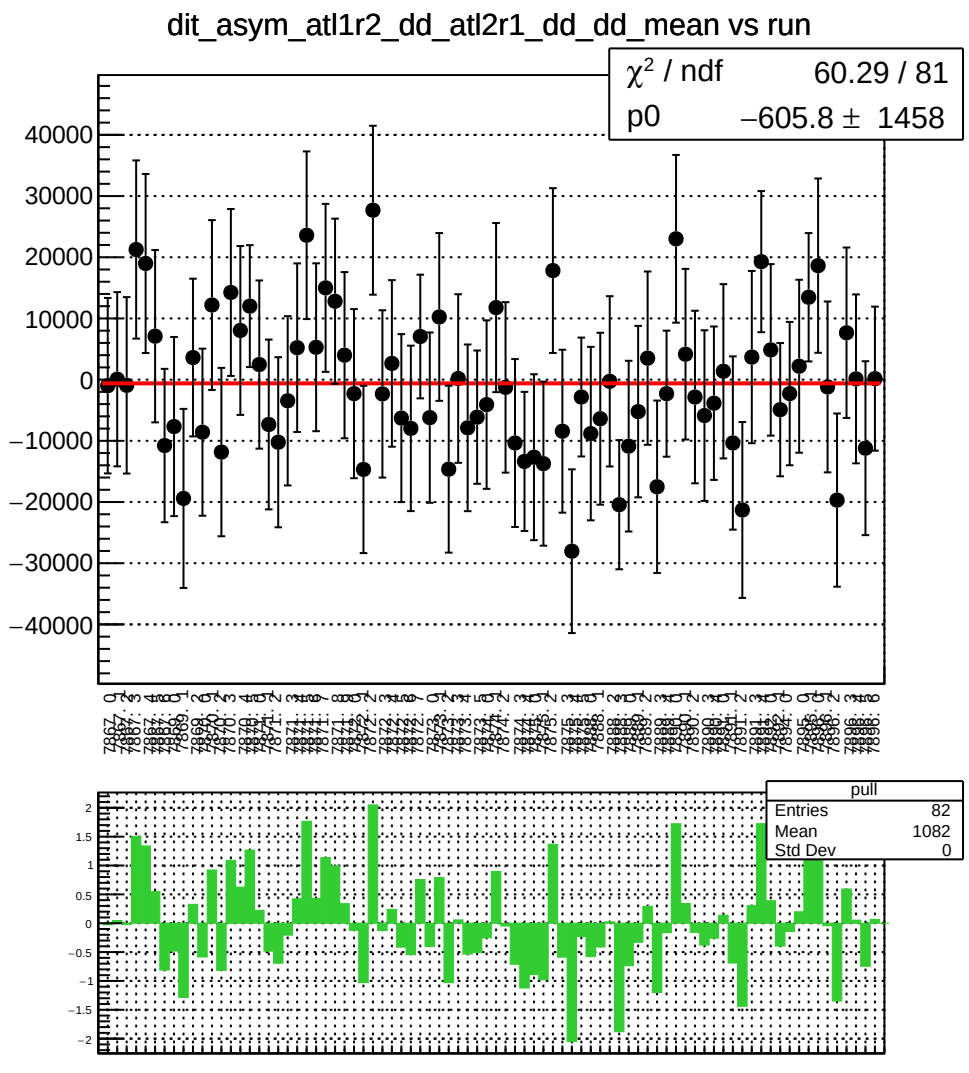
0
2
4
6
8

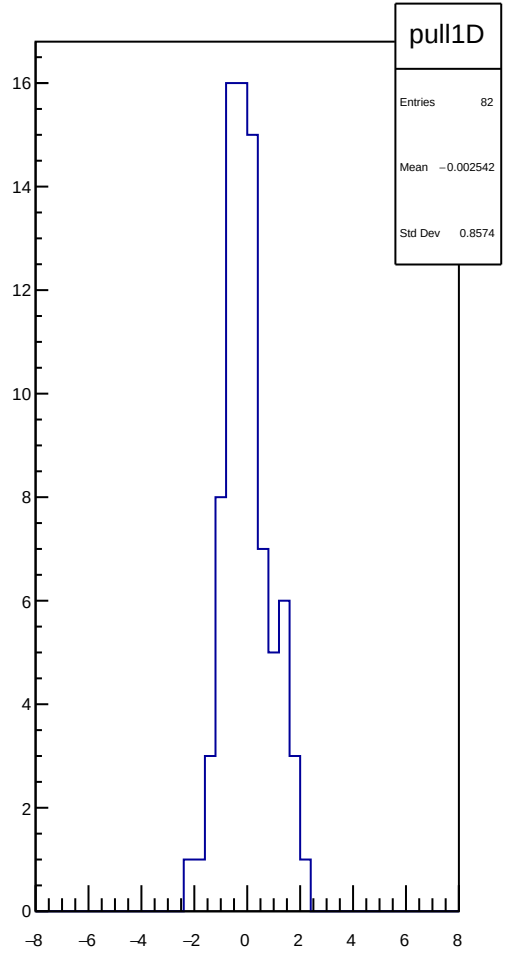

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 716 / 81
p0 1283 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

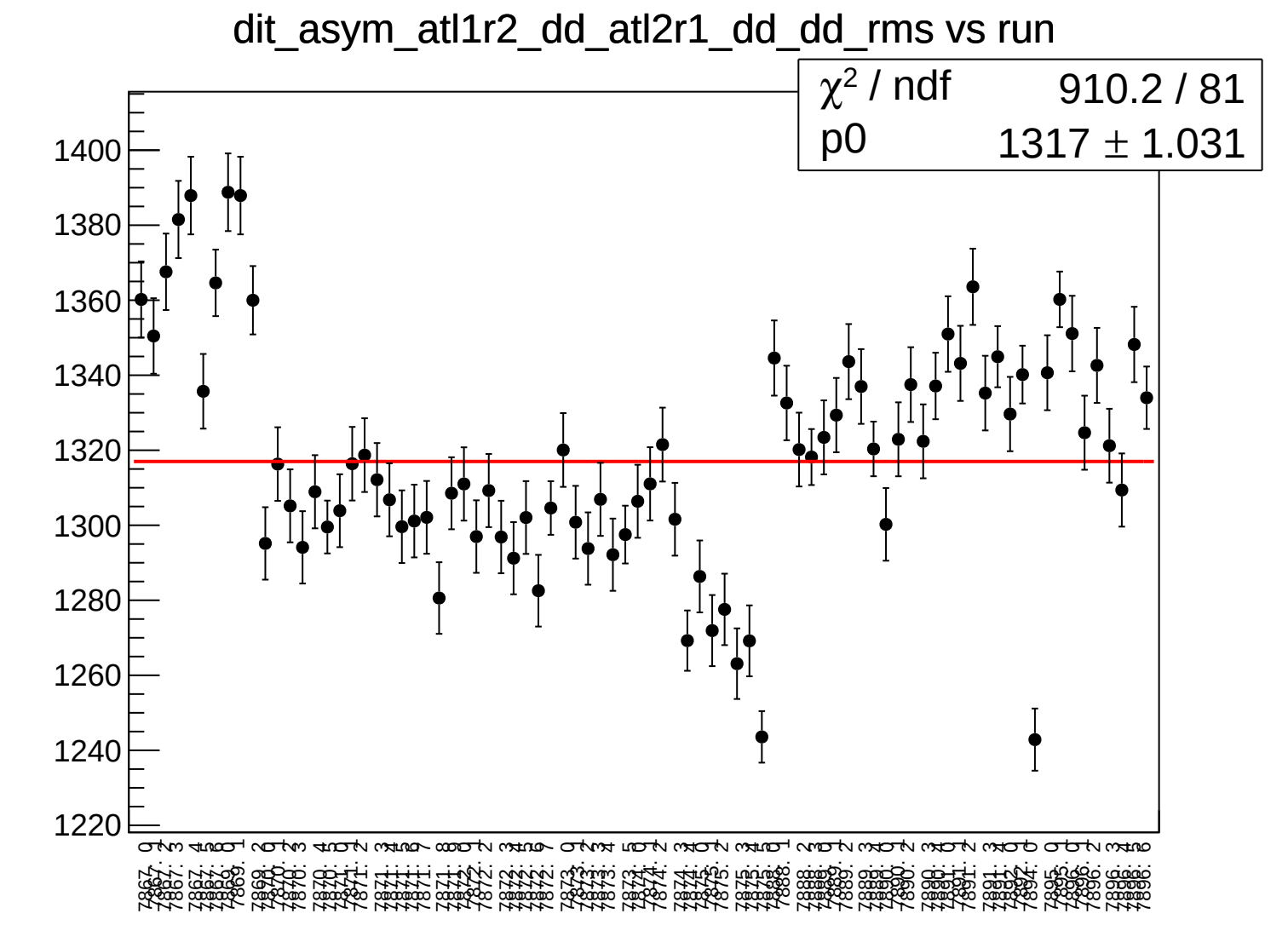

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.96 / 81
p0 −3034 ± 6169
×10³
200
100
0
−100
−200
pull
Entries 82
Mean −129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

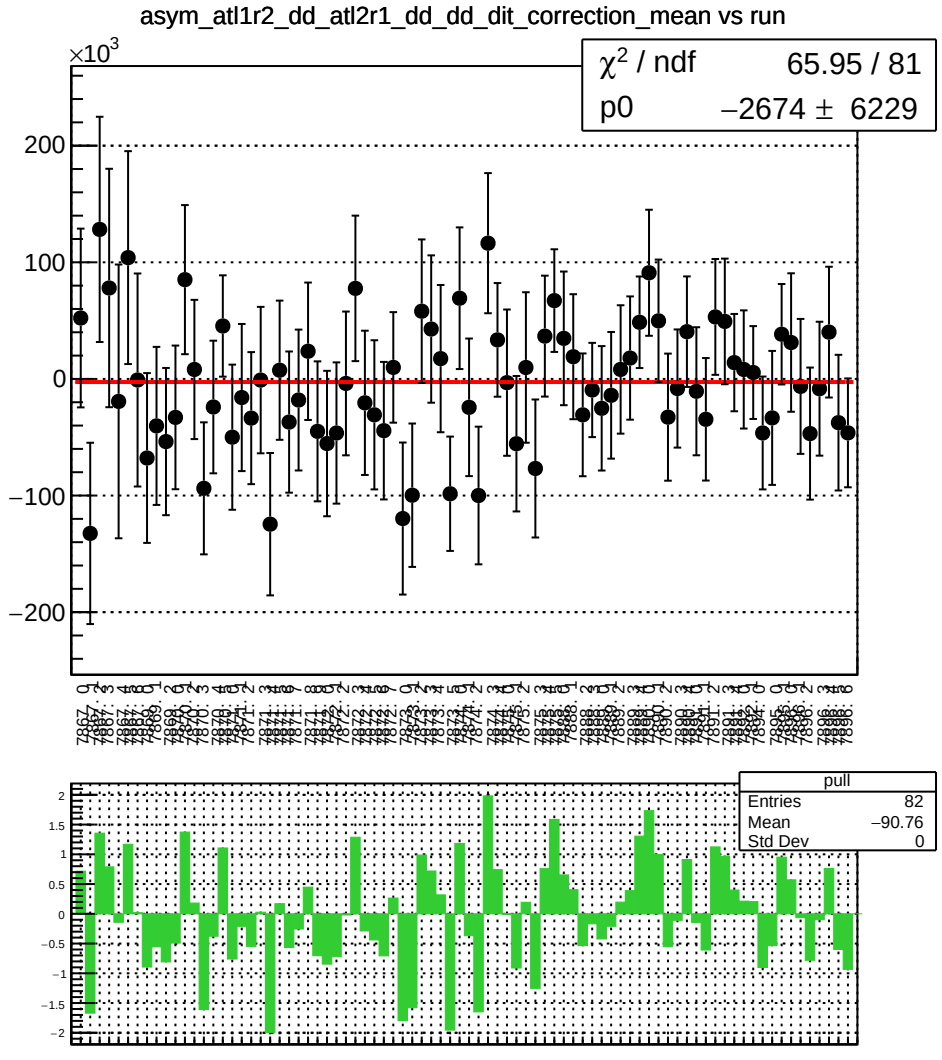

pull1D
Entries 82
Mean −0.01601
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

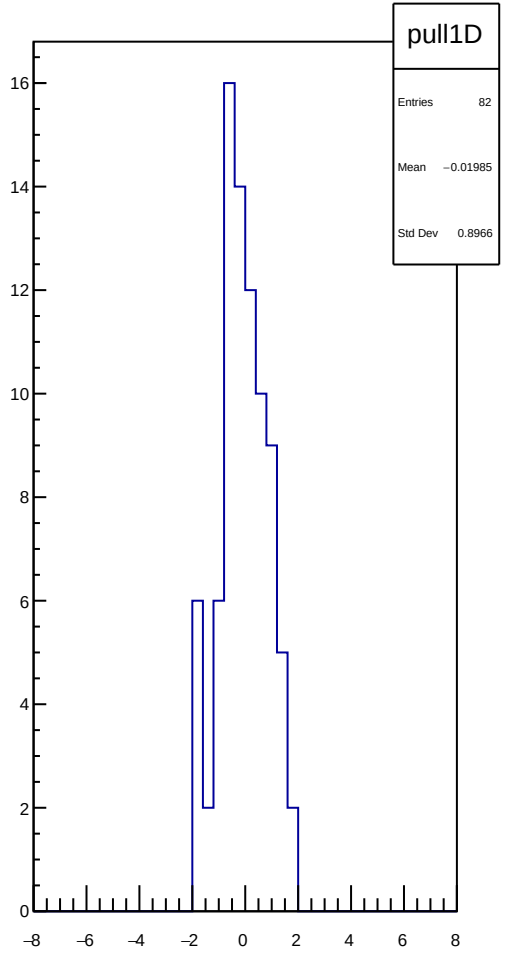

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.521e+04 / 81
p0 5530 ± 4.362
11000
10000
9000
8000
7000
6000
5000

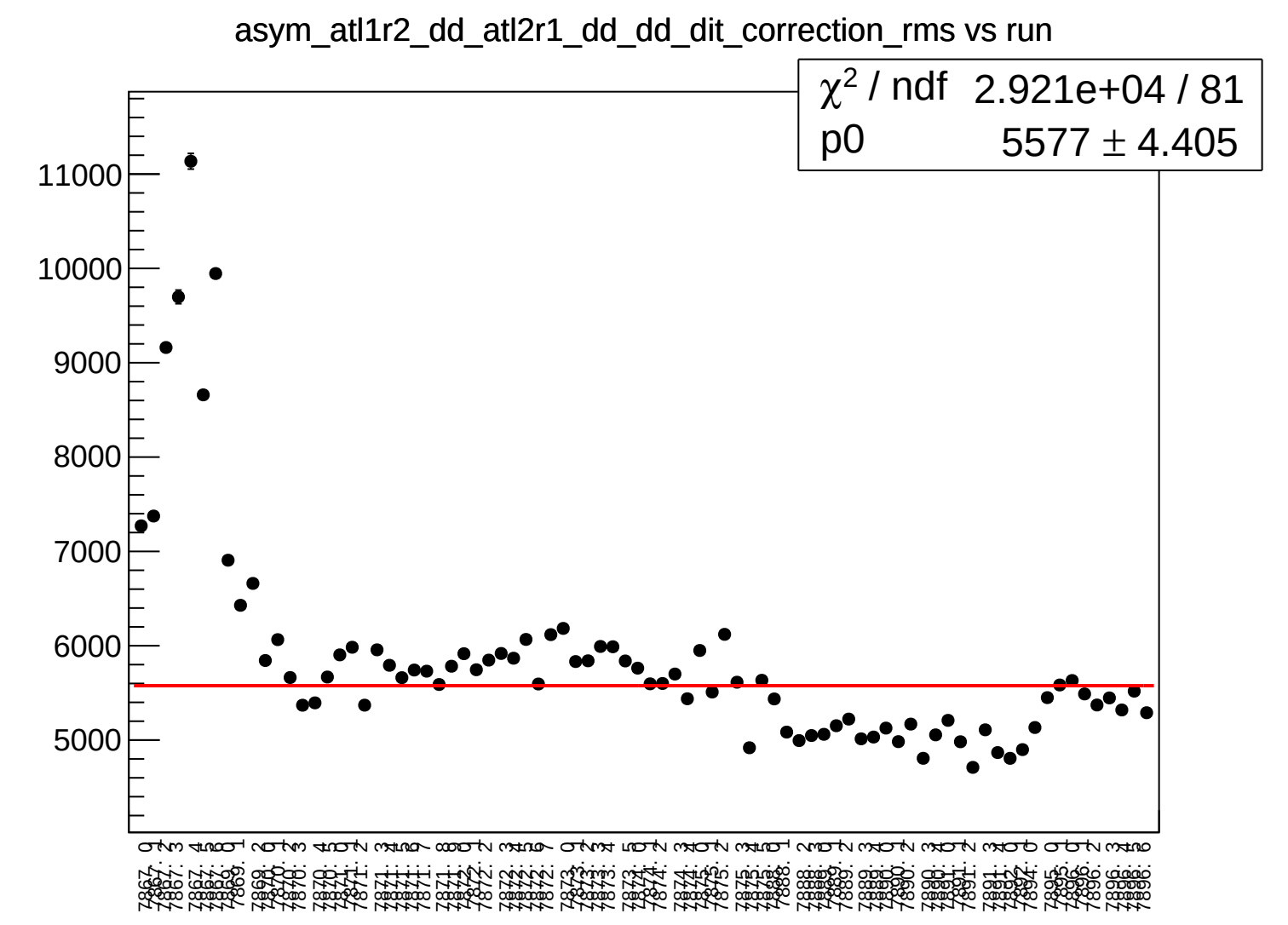

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 60.29 / 81
p0 −605.8 ± 1458
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 1082
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

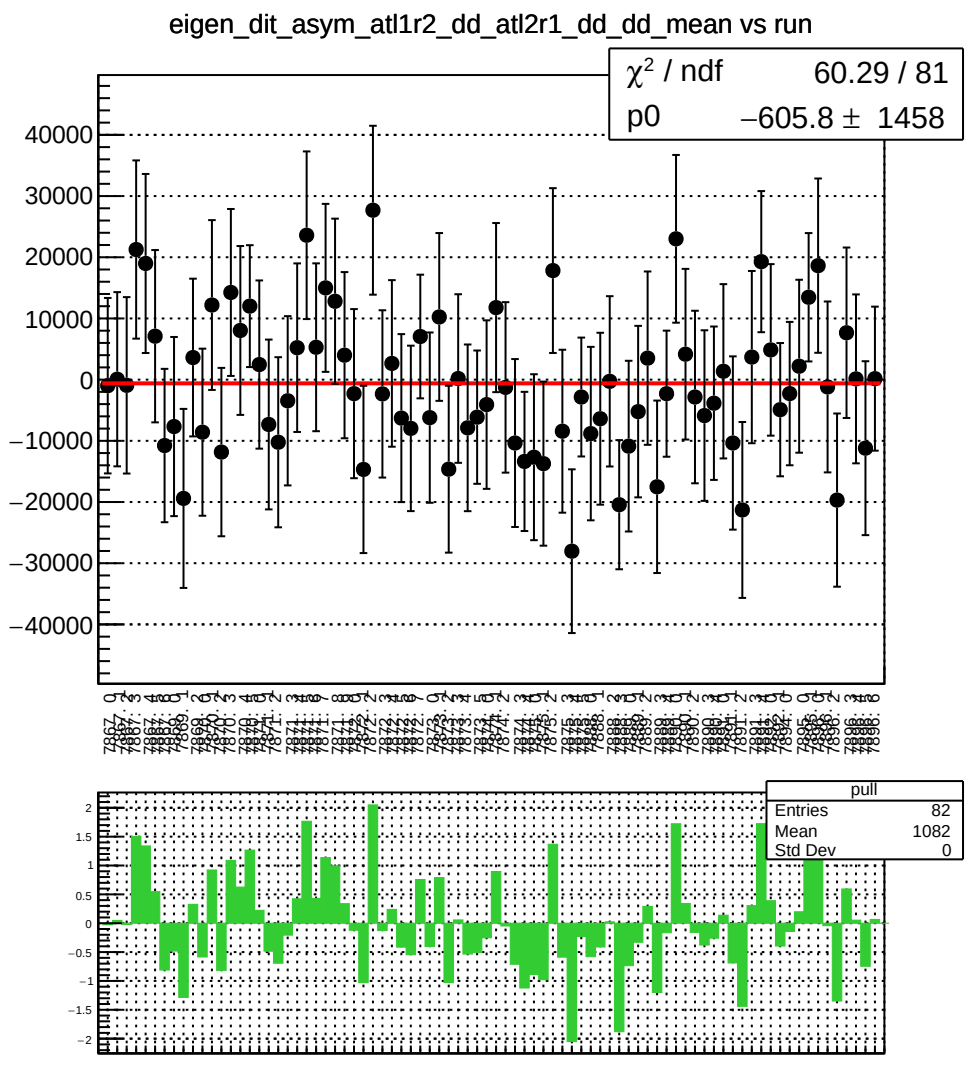

pull1D
Entries 82
Mean −0.002542
Std Dev 0.8574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

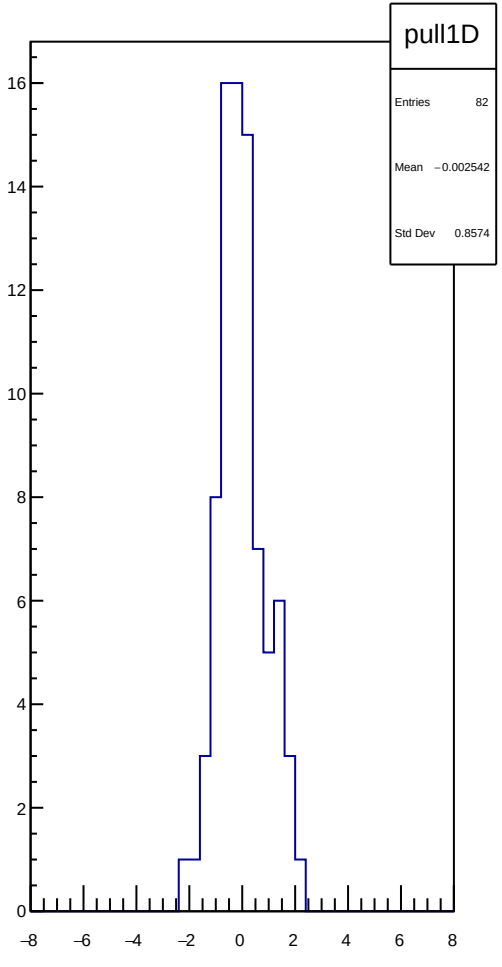

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 910.2 / 81
p0 1317 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

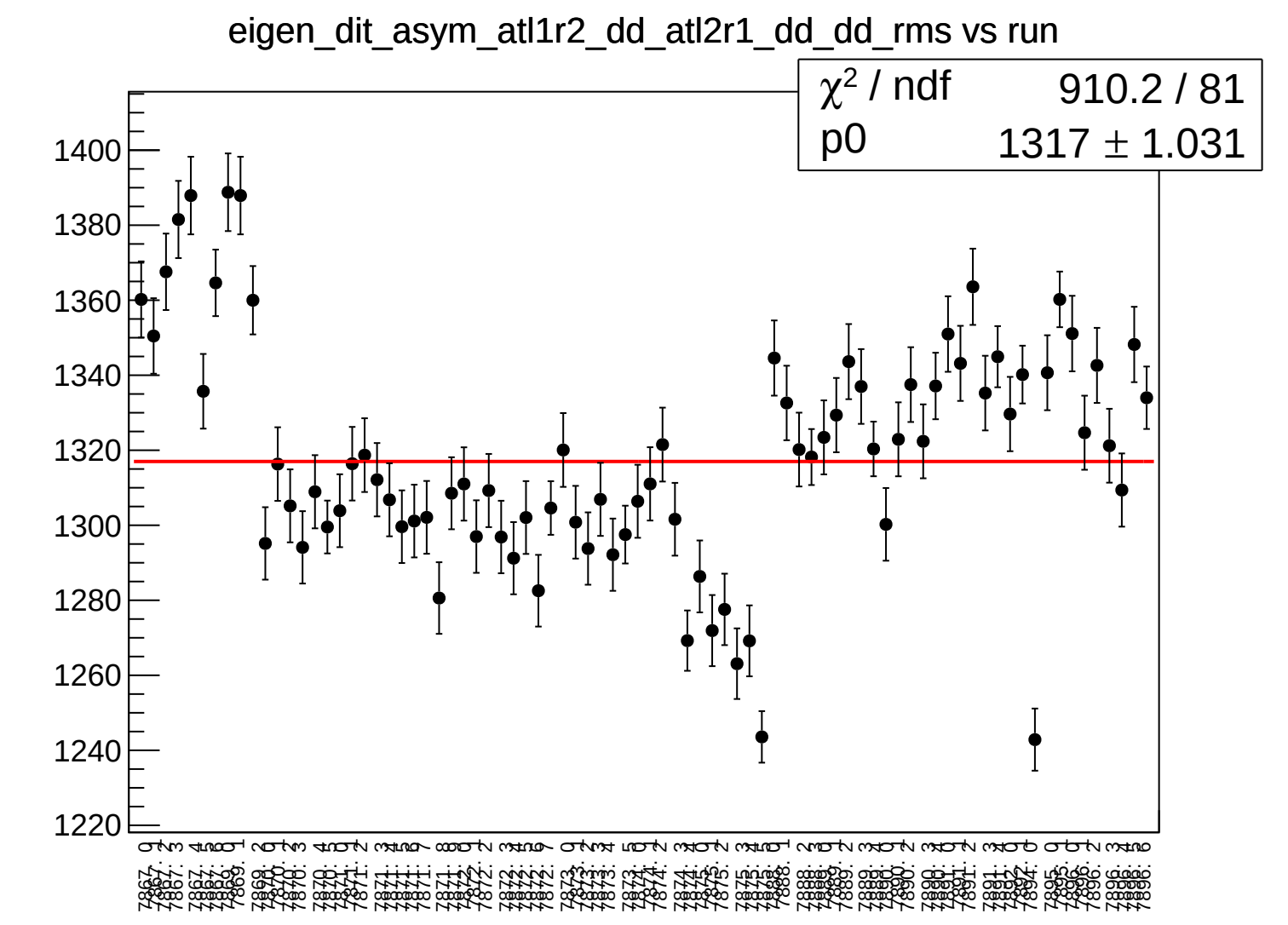

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.95 / 81
p0 −2674 ± 6229
200
100
0
−100
−200
pull
Entries 82
Mean −90.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

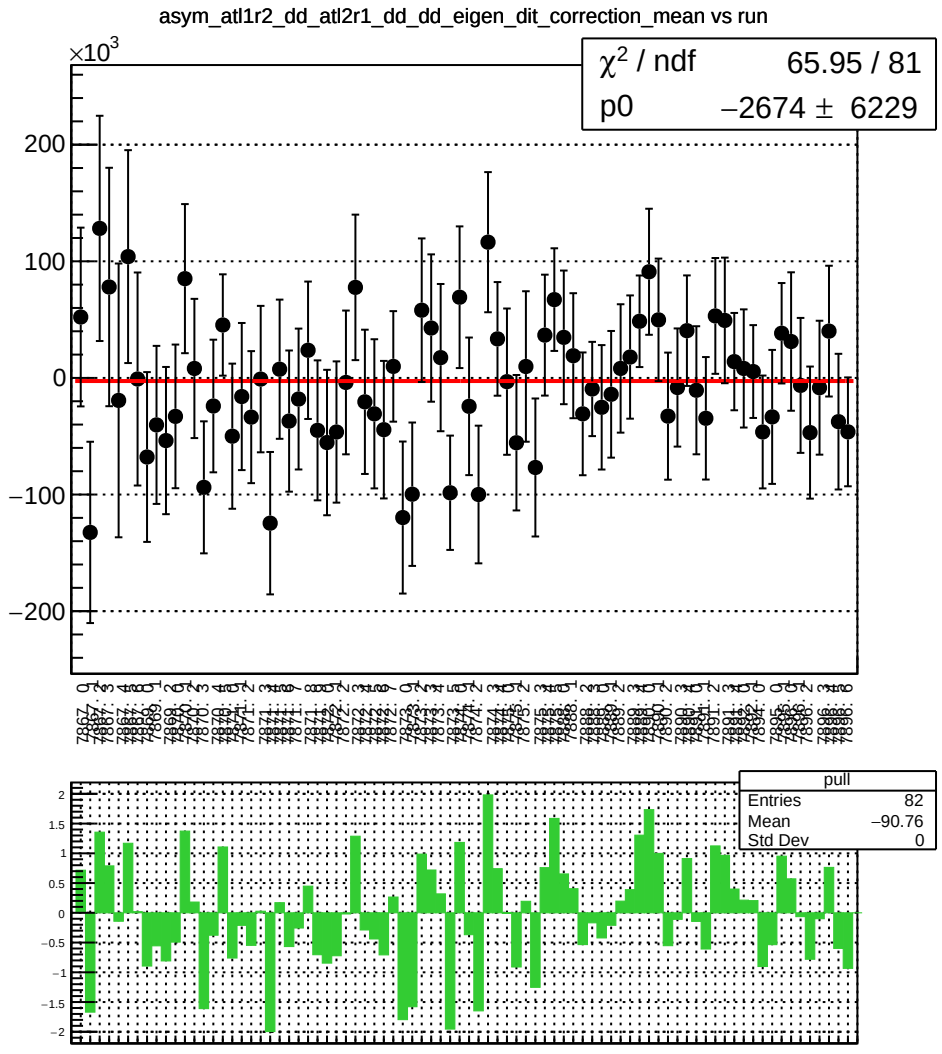

pull1D
Entries 82
Mean −0.01985
Std Dev 0.8966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

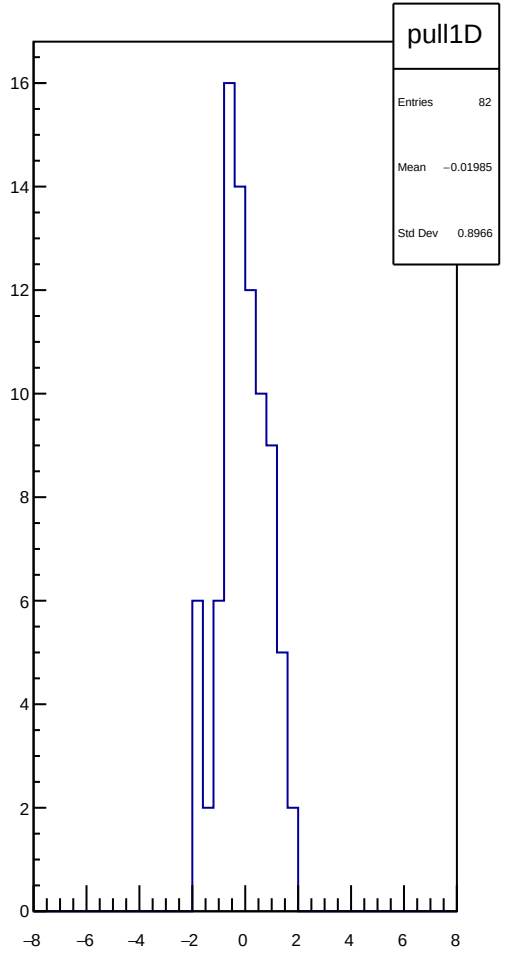

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2.921e+04 / 81
p0 5577 ± 4.405
11000
10000
9000
8000
7000
6000
5000

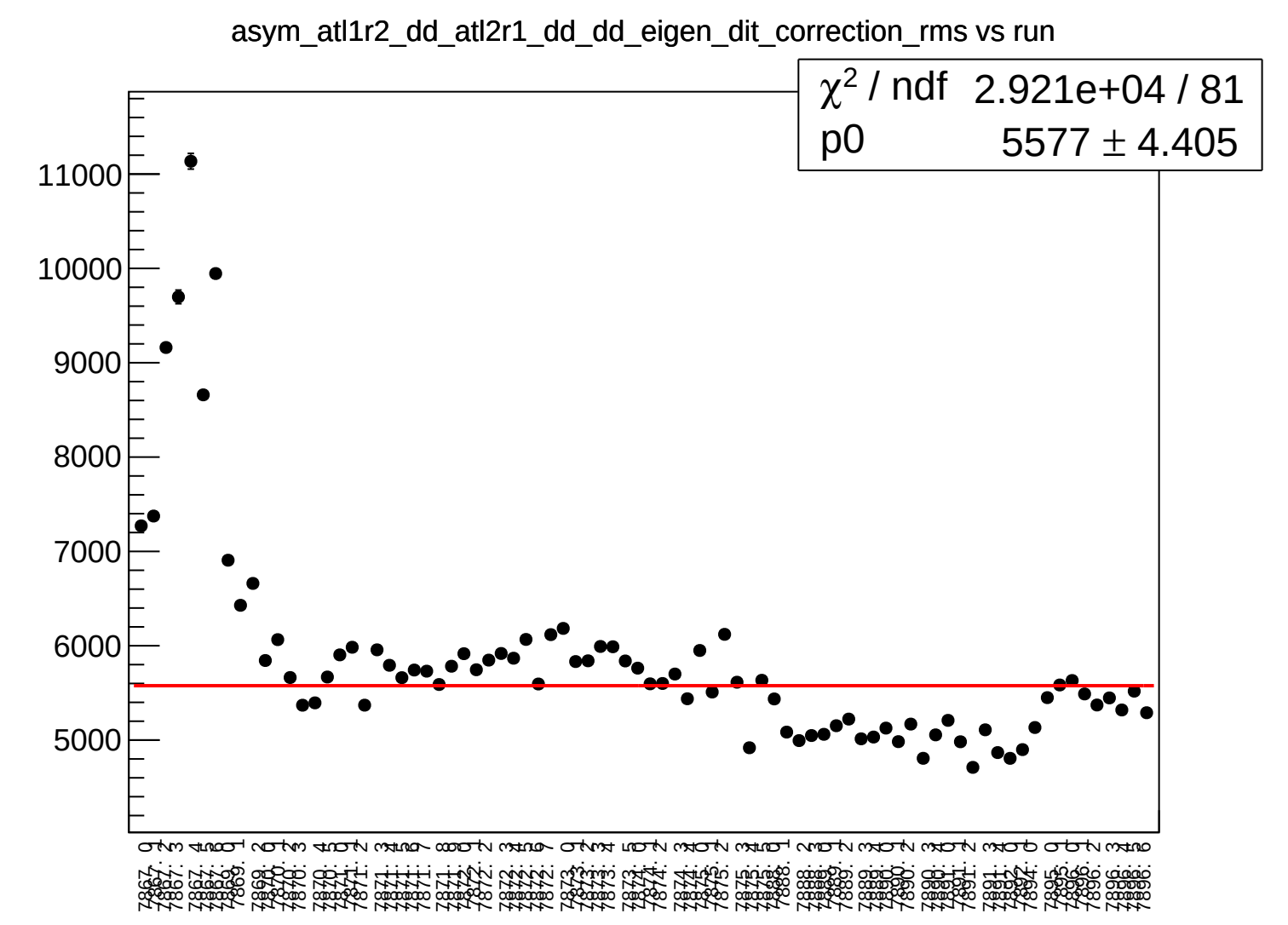

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 60.29 / 81
p0 −605.8 ± 1458
pull
Entries 82
Mean 1082
Std Dev 0

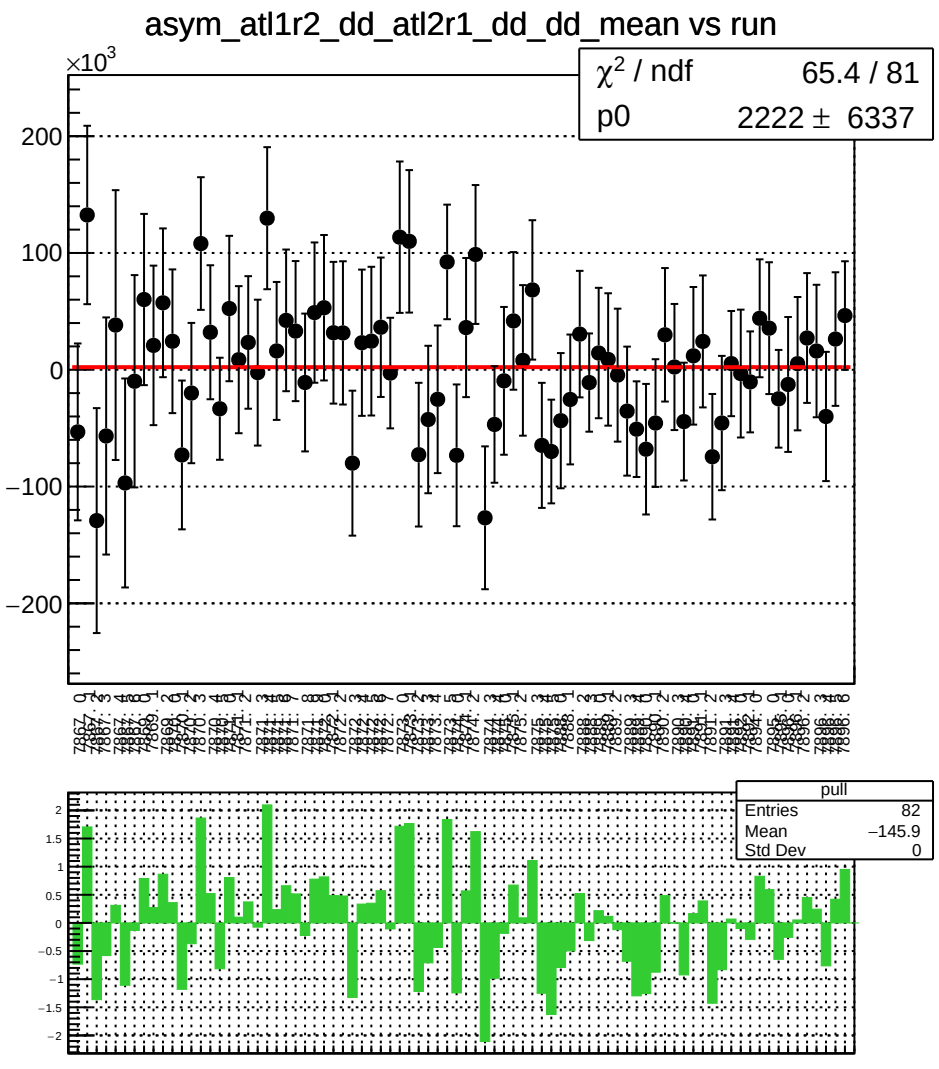

pull1D
Entries 82
Mean −0.002542
Std Dev 0.8574

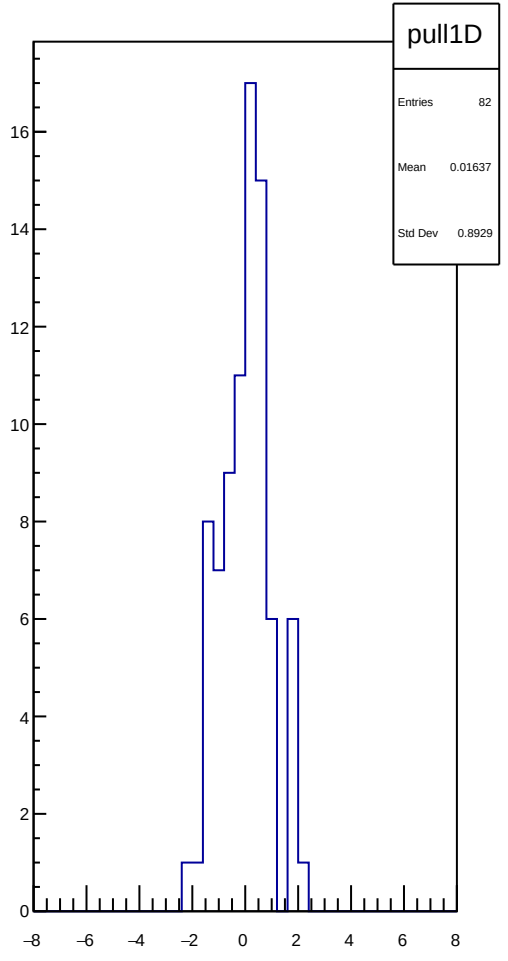

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 910.2 / 81
p0 1317 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

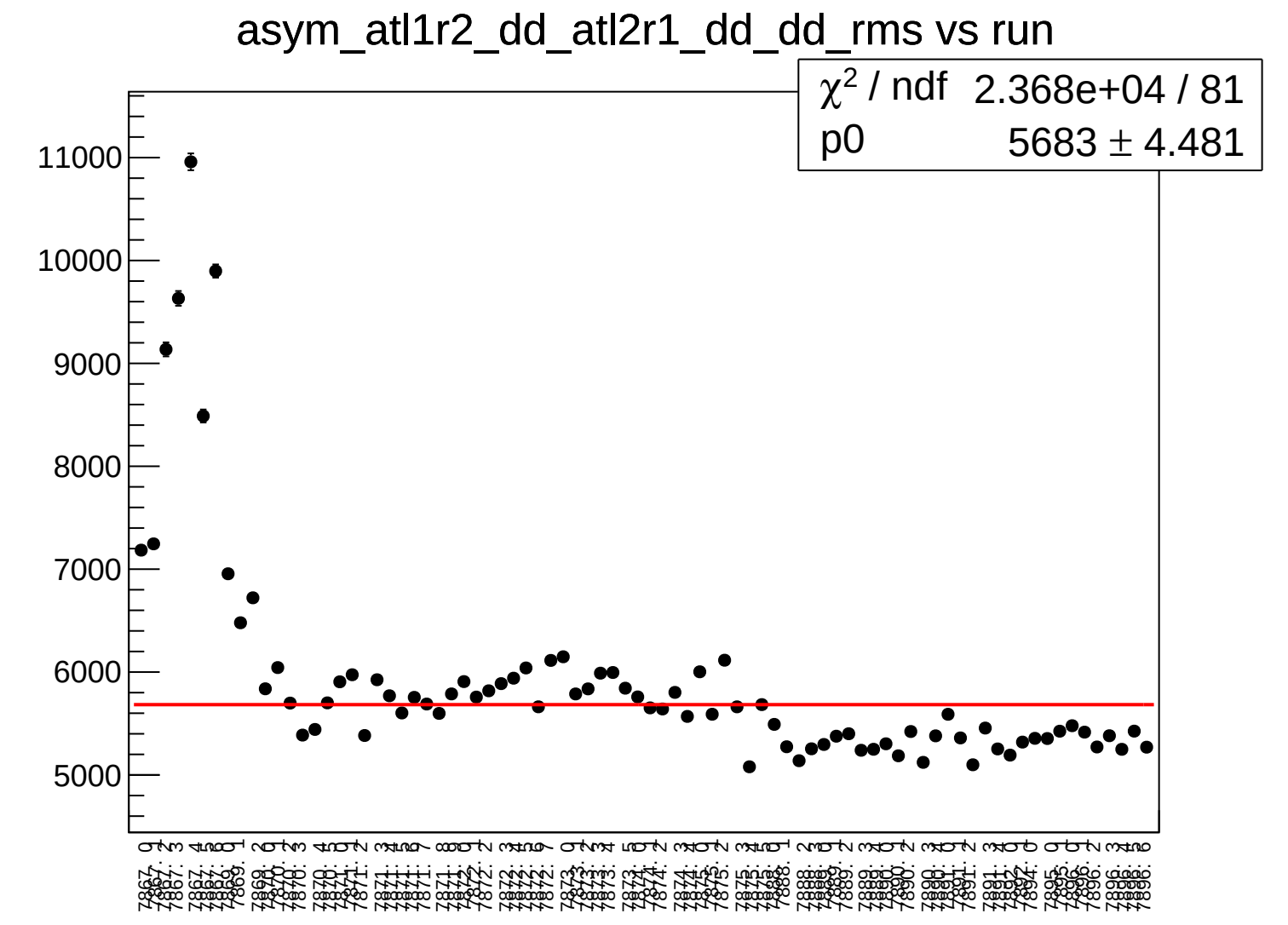

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.95 / 81
p0 −2674 ± 6229
200
100
0
−100
−200
pull
Entries 82
Mean −90.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

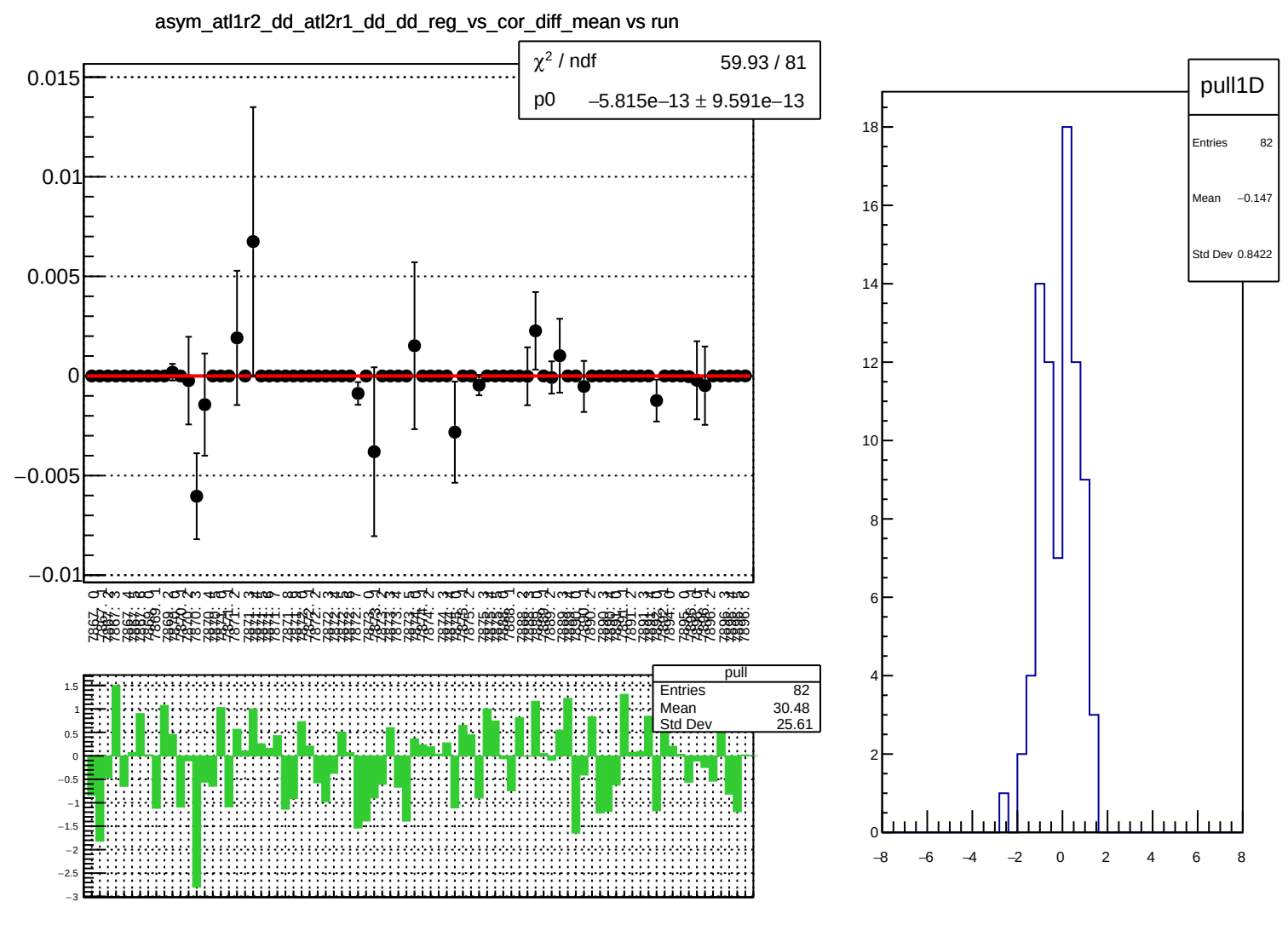

pull1D
Entries 82
Mean −0.01985
Std Dev 0.8966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

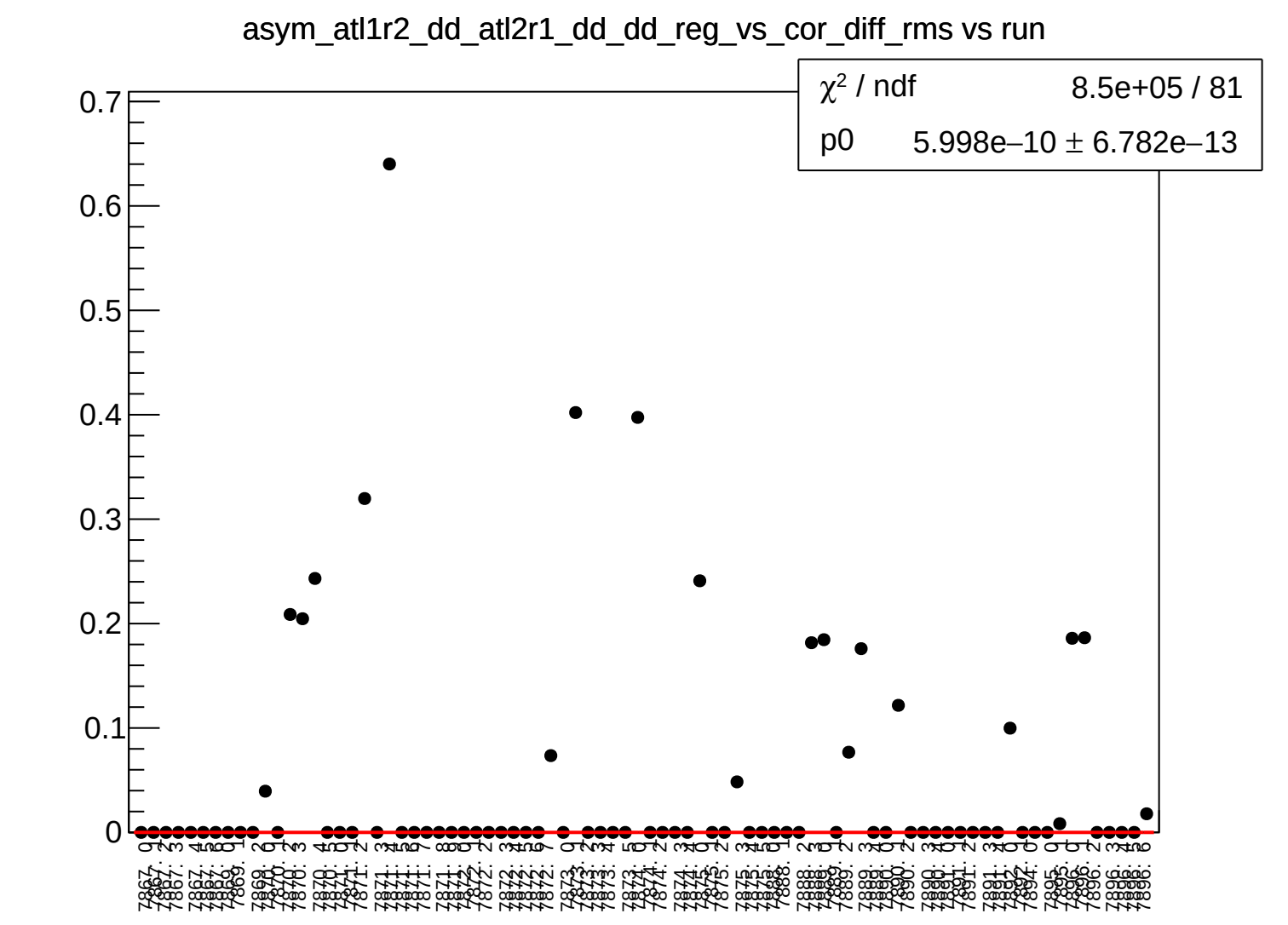

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2.921e+04 / 81
p0 5577 ± 4.405
11000
10000
9000
8000
7000
6000
5000

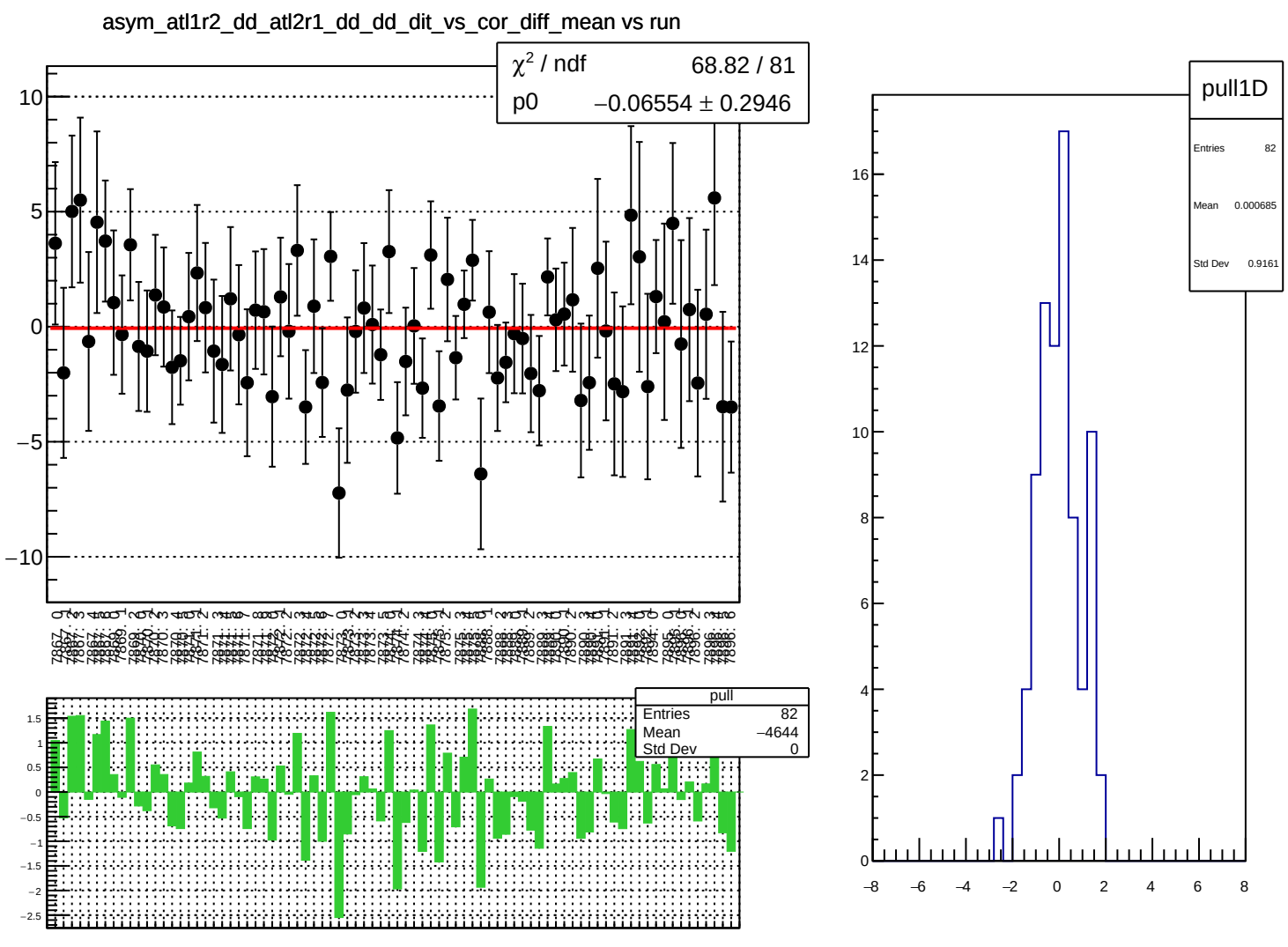

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 65.4 / 81
p0 2222 ± 6337
200
100
0
−100
−200
pull
Entries 82
Mean −145.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

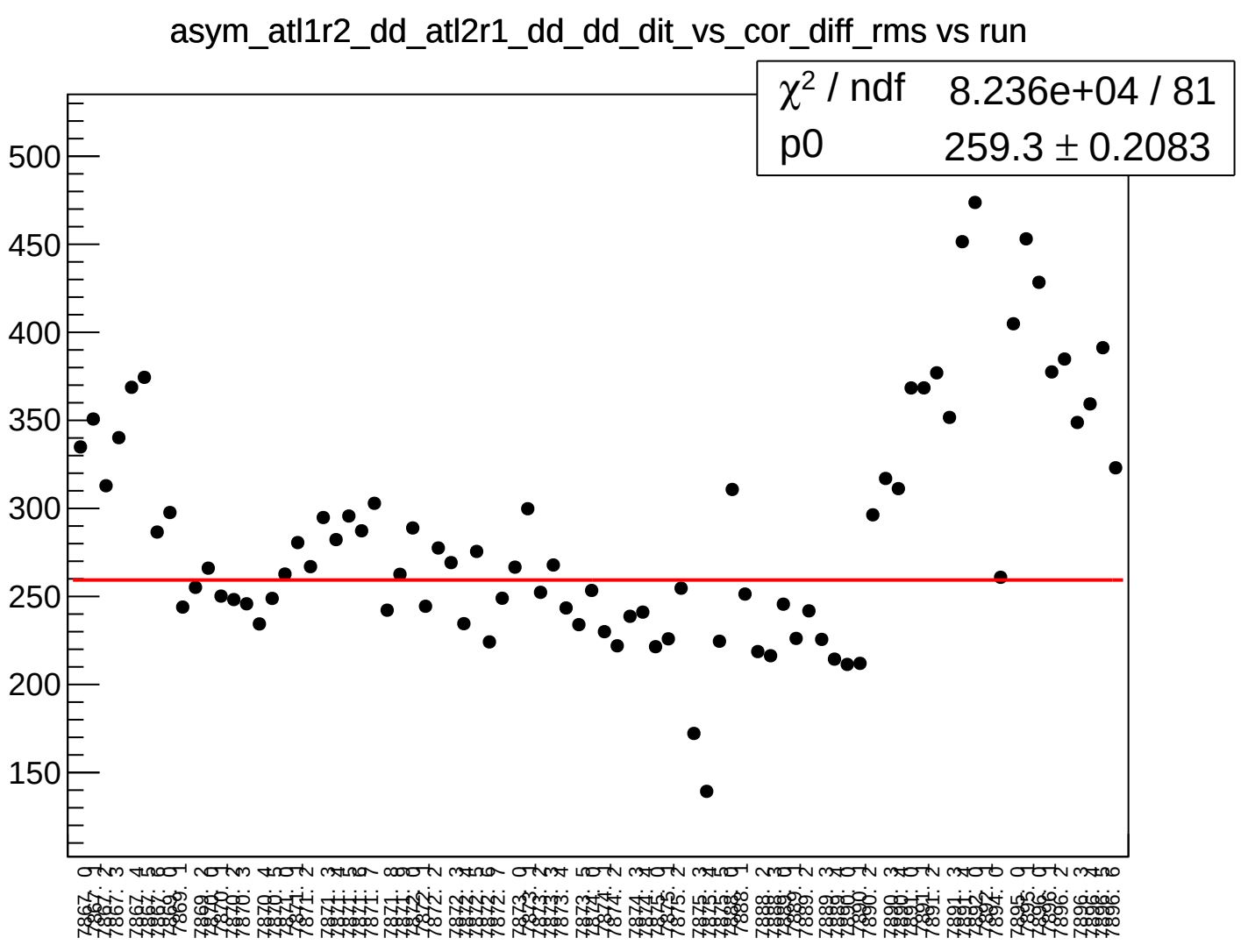

pull1D
Entries 82
Mean 0.01637
Std Dev 0.8929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

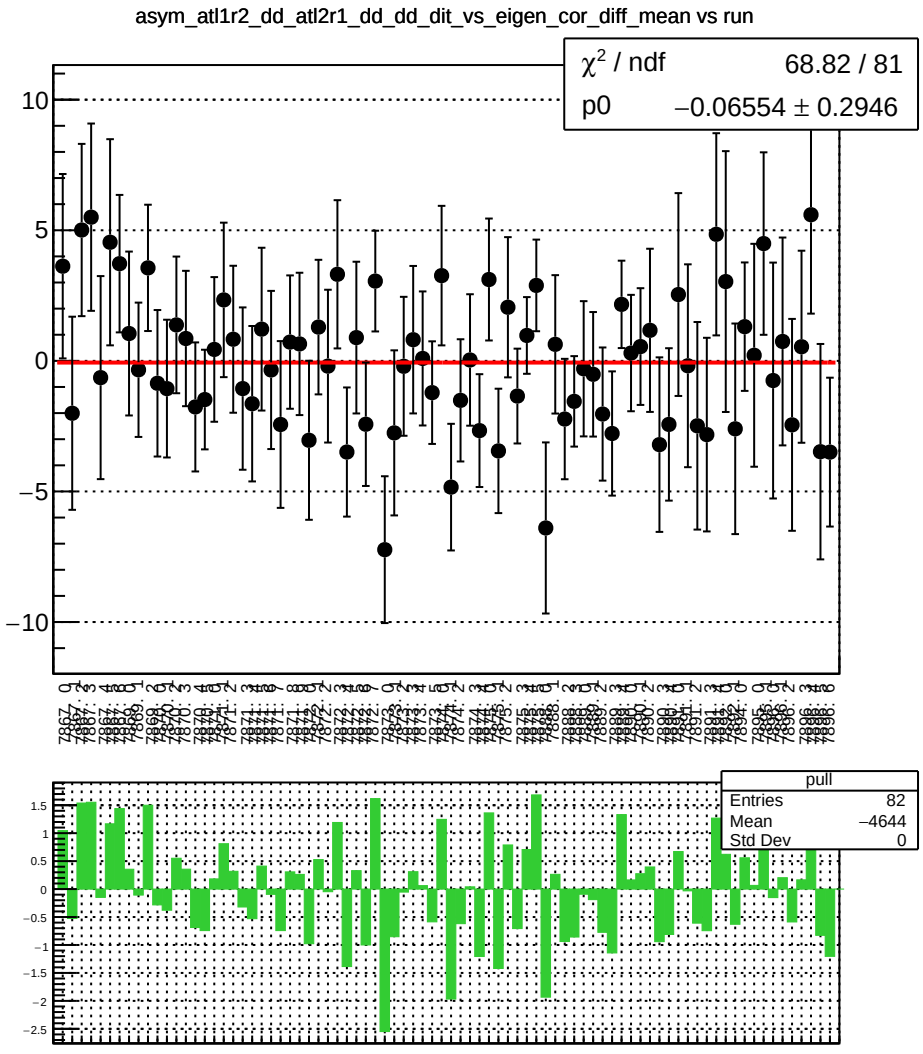

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2.368e+04 / 81
p0 5683 ± 4.481
11000
10000
9000
8000
7000
6000
5000

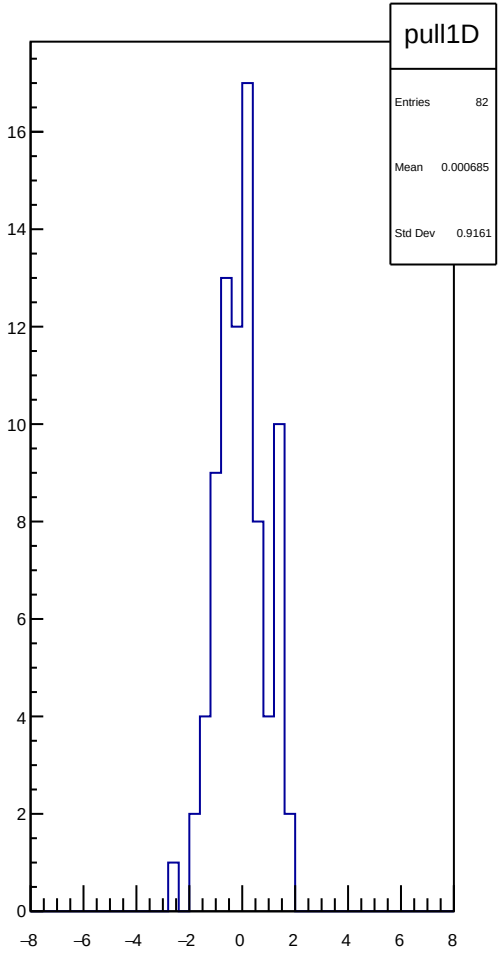

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.93 / 81
p0 −5.815e−13 ± 9.591e−13
pull
Entries 82
Mean 30.48
Std Dev 25.61
pull1D
Entries 82
Mean −0.147
Std Dev 0.8422

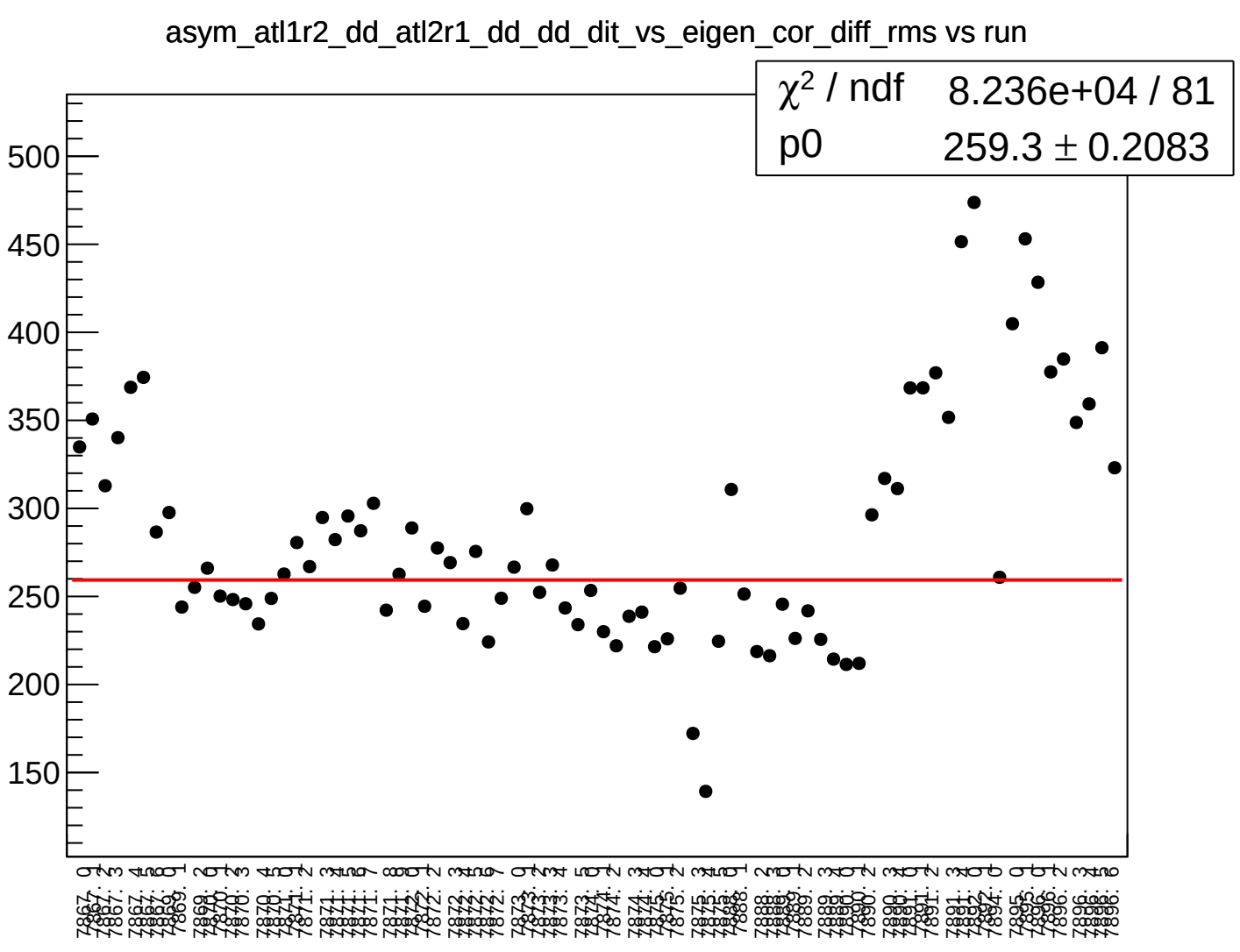

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.5e+05 / 81
p0 5.998e−10 ± 6.782e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

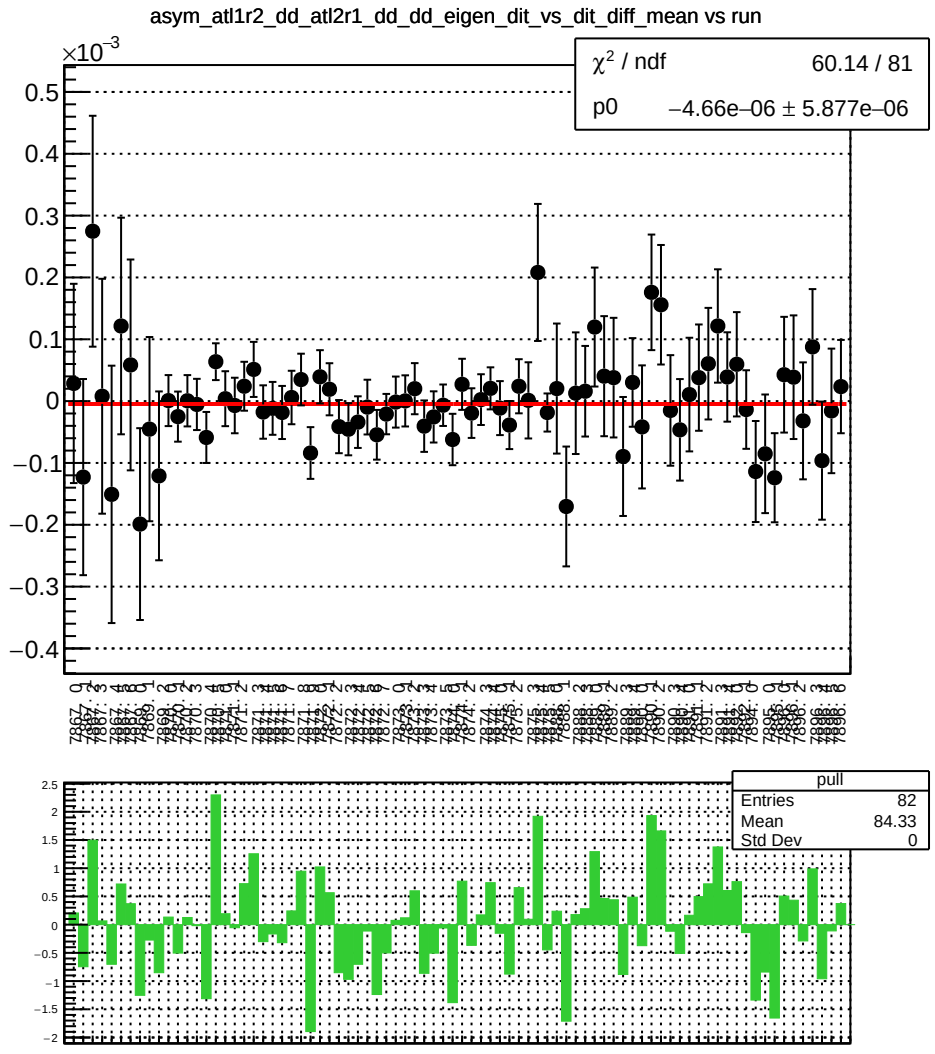

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4644
Std Dev 0
pull1D
Entries 82
Mean 0.000685
Std Dev 0.9161

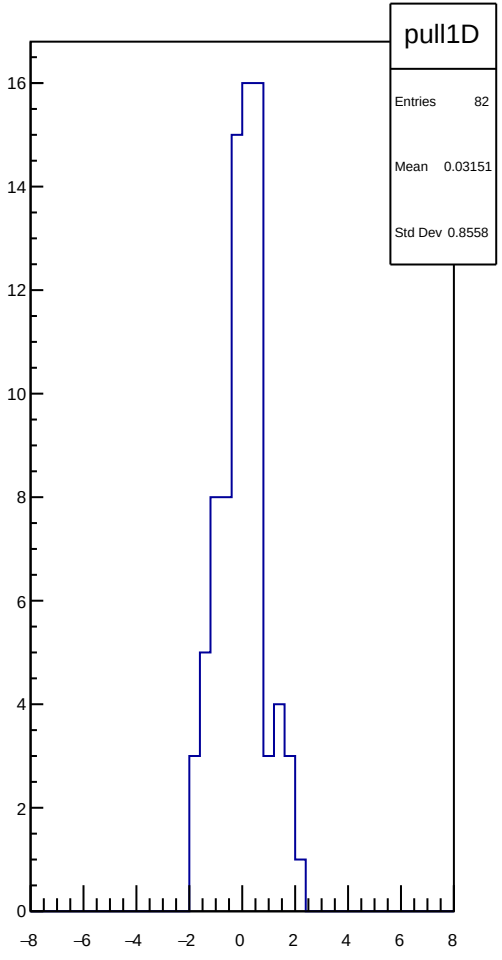

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

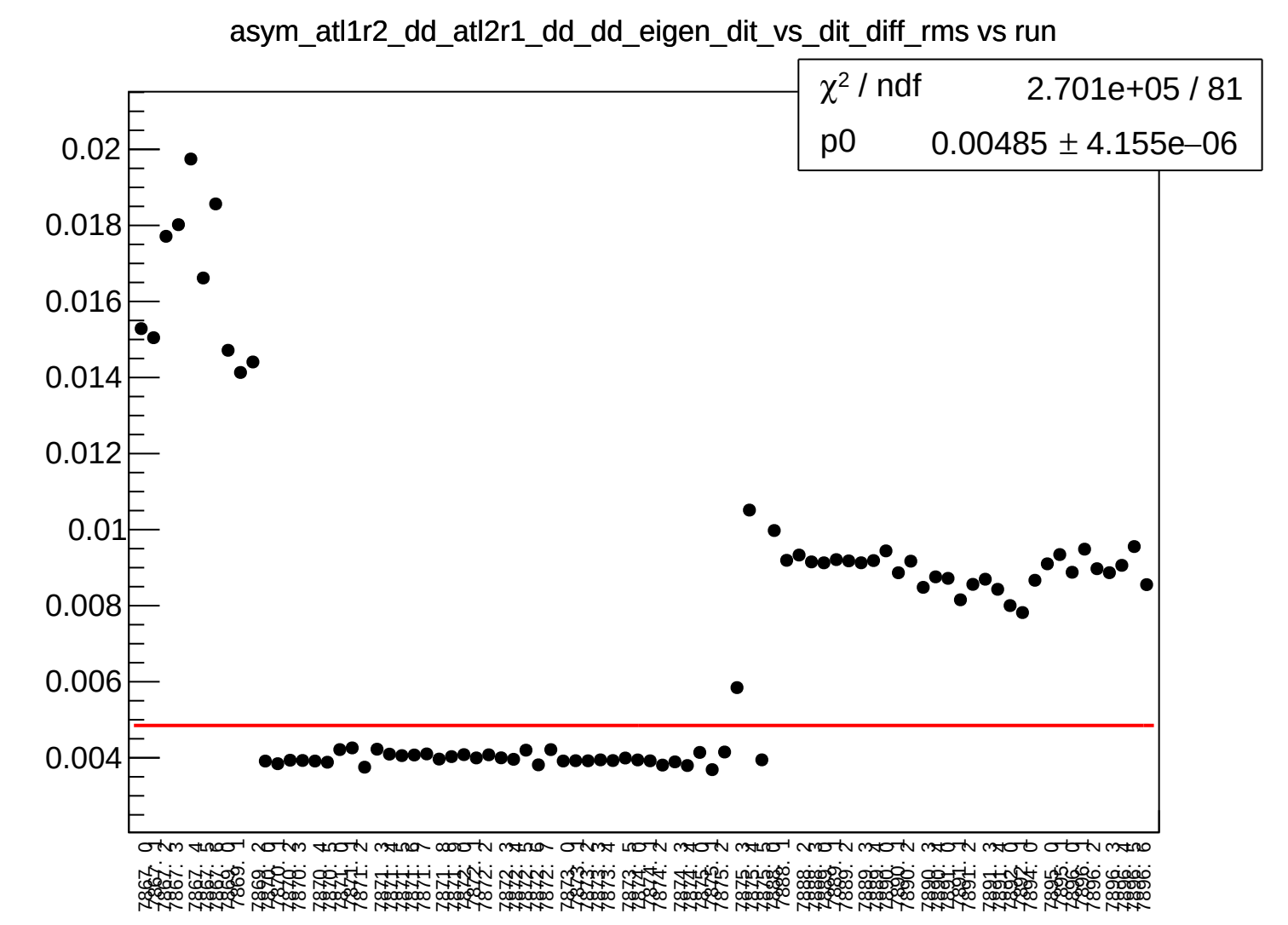

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4644
Std Dev 0

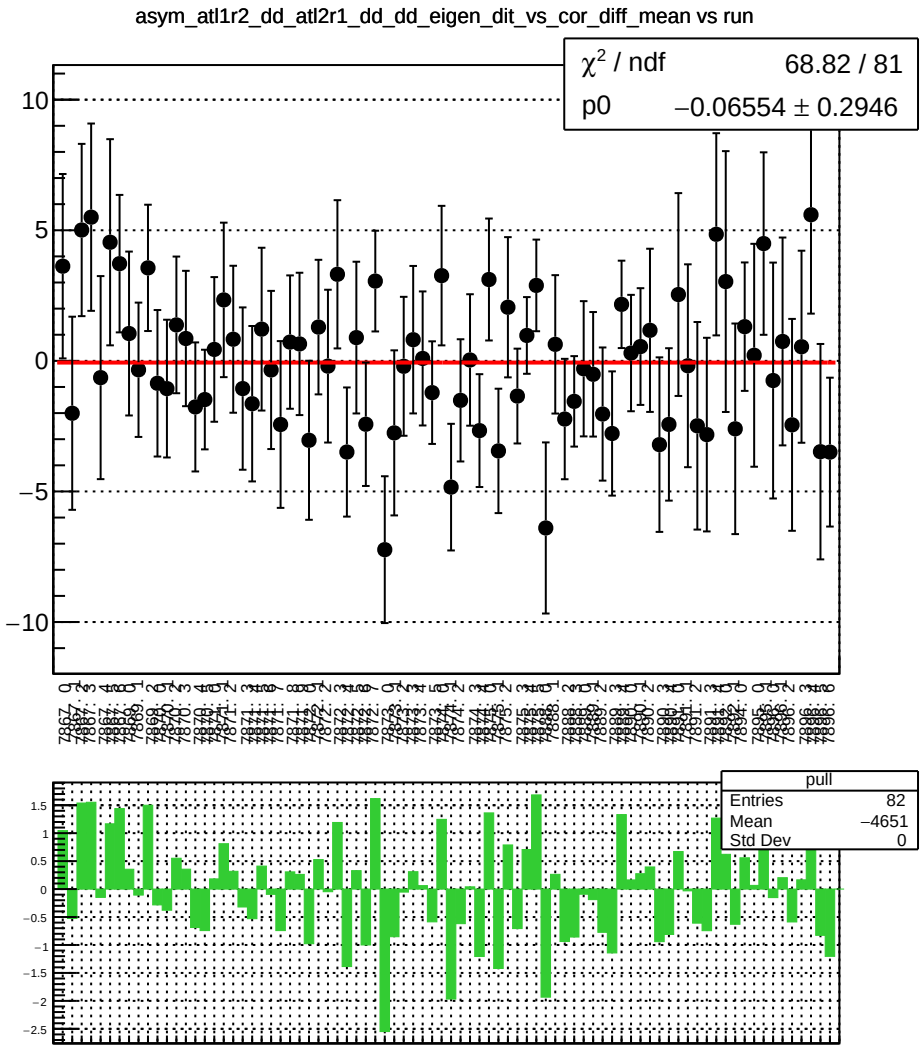

pull1D
Entries 82
Mean 0.000685
Std Dev 0.9161

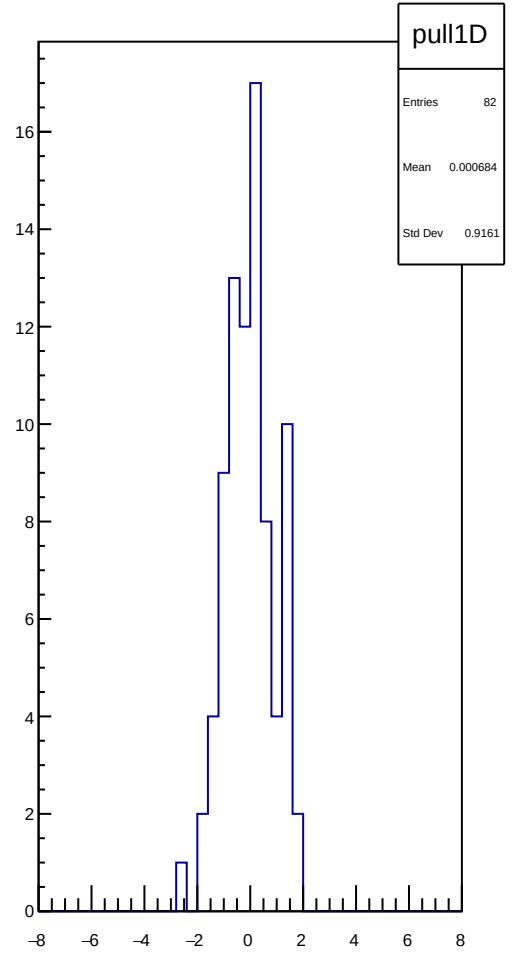

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

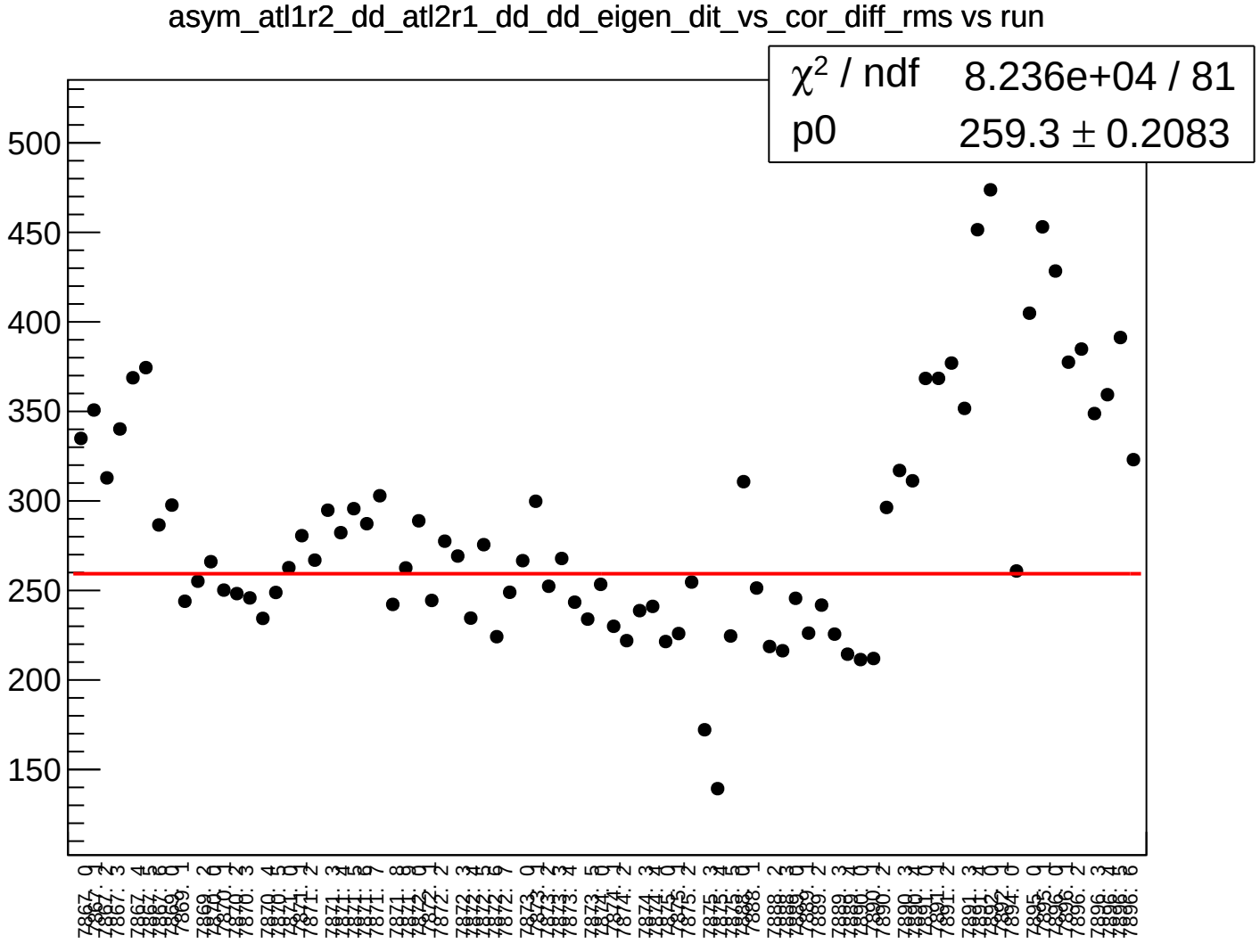

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.14 / 81
p0 −4.66e−06 ± 5.877e−06
pull
Entries 82
Mean 84.33
Std Dev 0

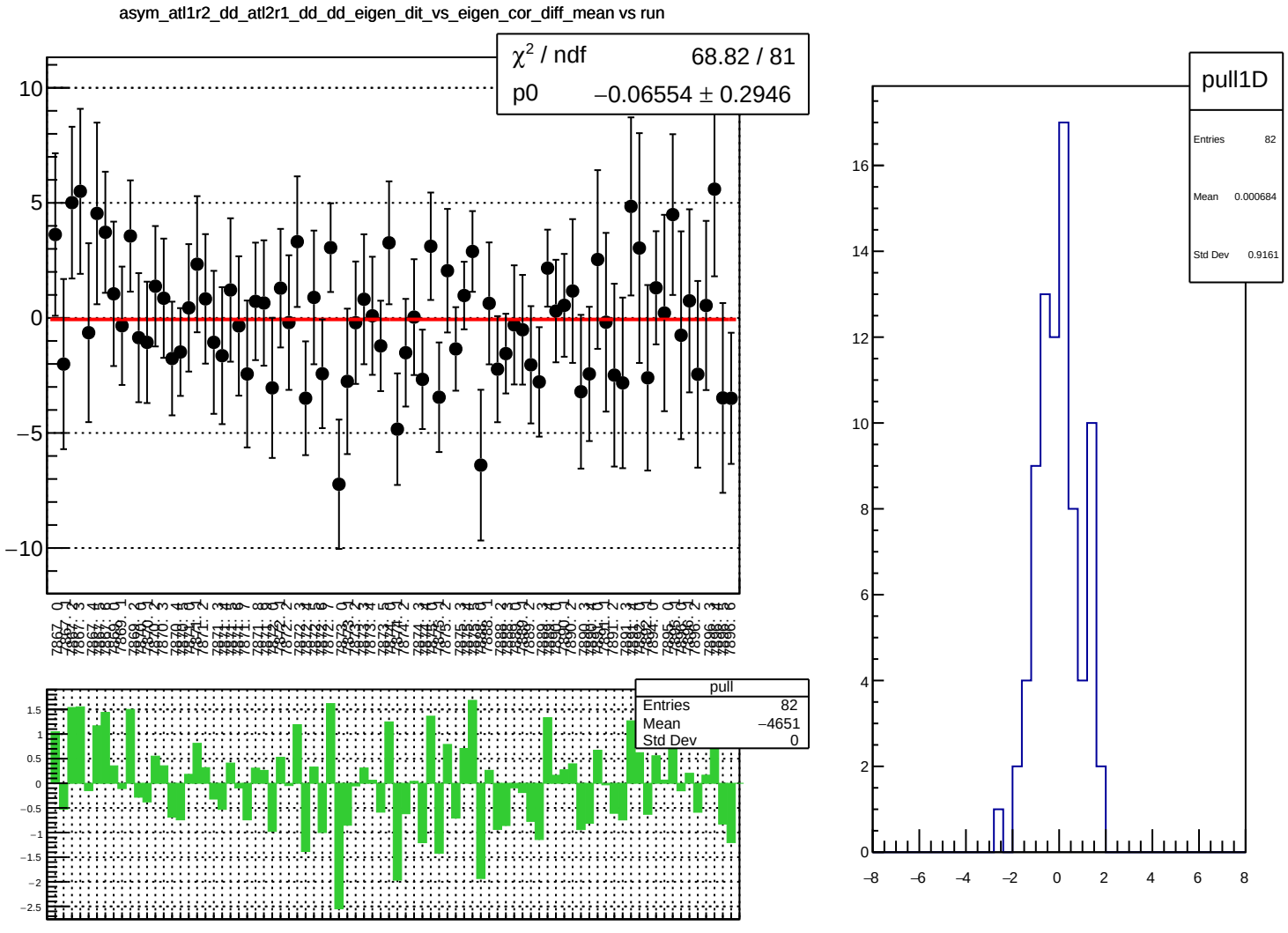

pull1D
Entries 82
Mean 0.03151
Std Dev 0.8558

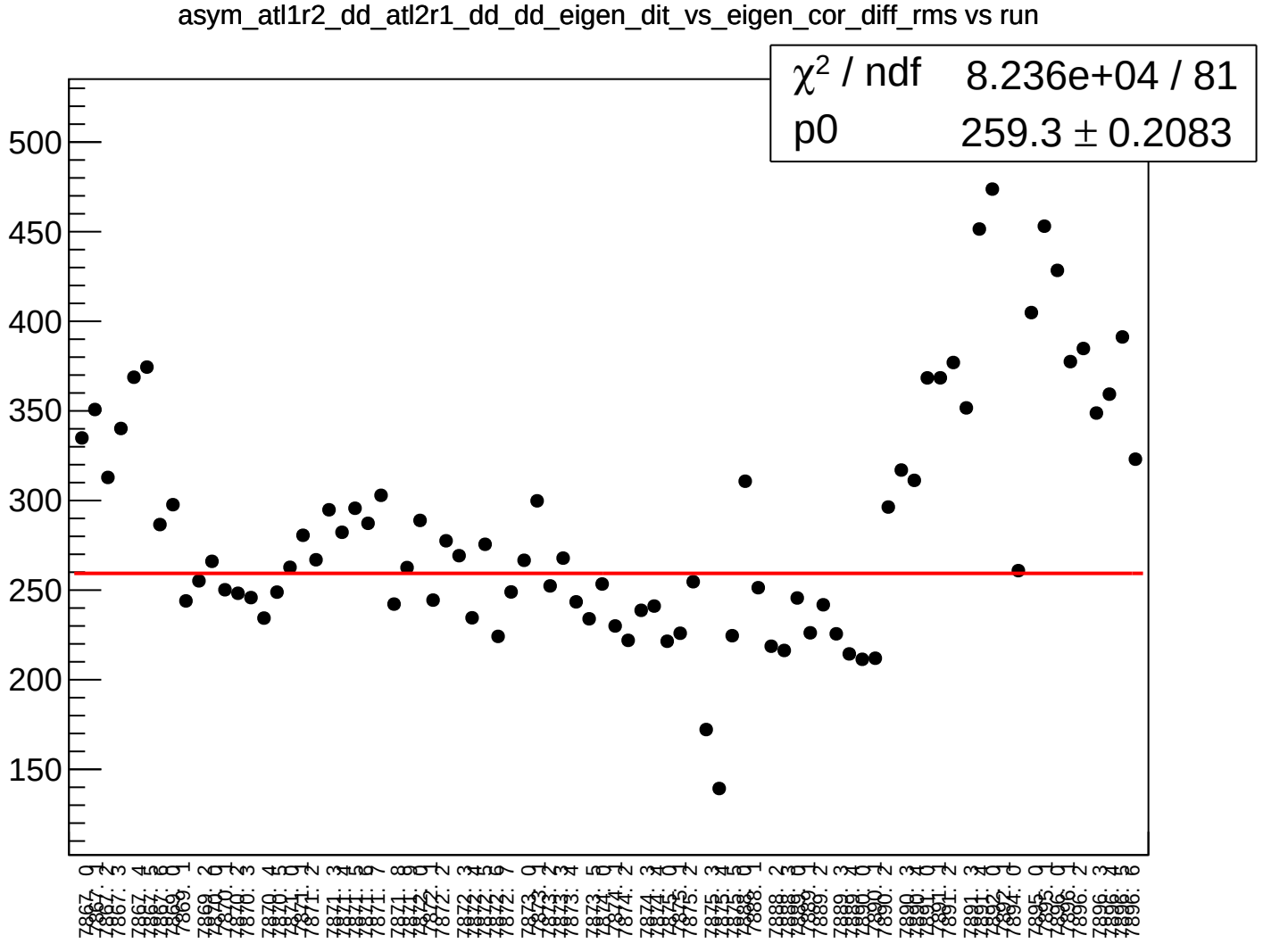

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.701e+05 / 81
p0 0.00485 ± 4.155e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

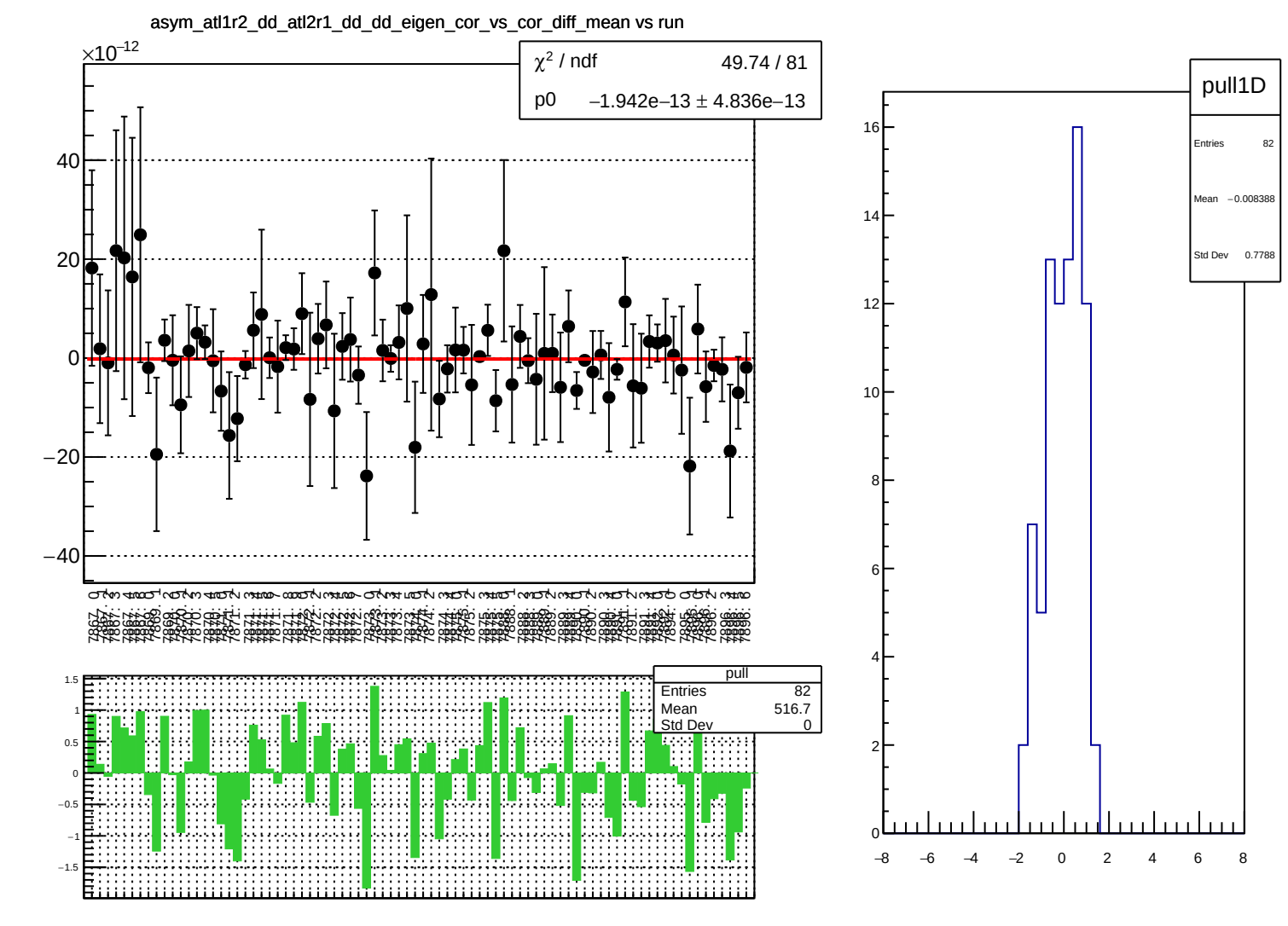

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4651
Std Dev 0

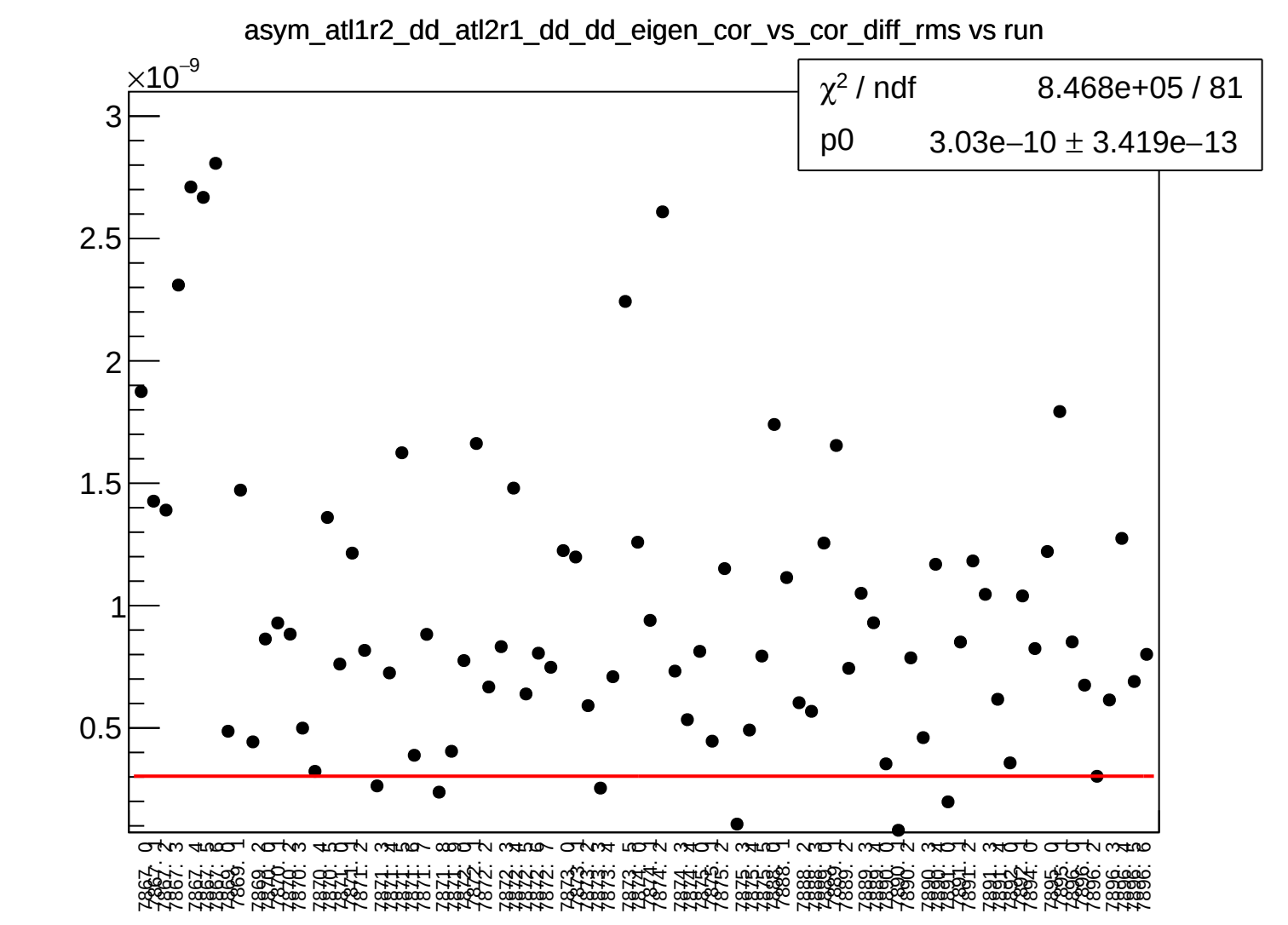

pull1D
Entries 82
Mean 0.000684
Std Dev 0.9161

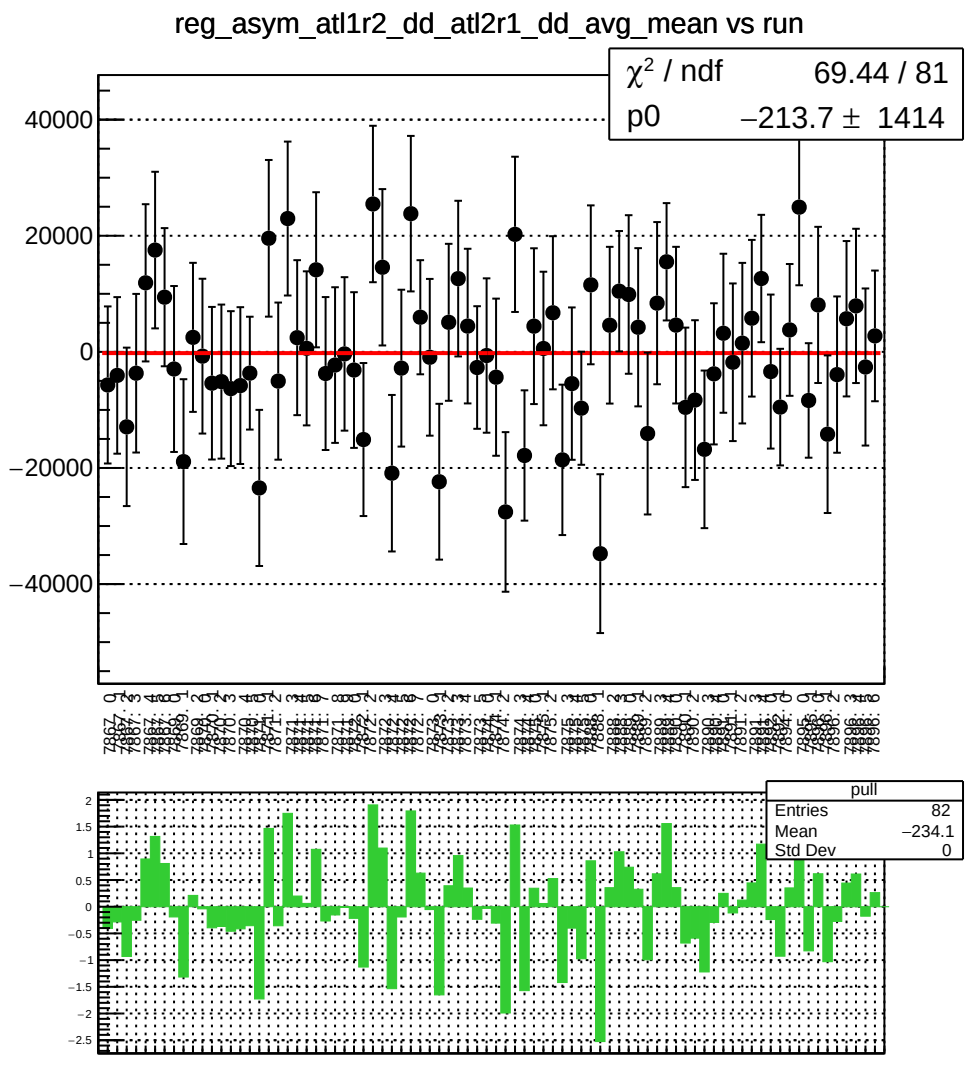

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

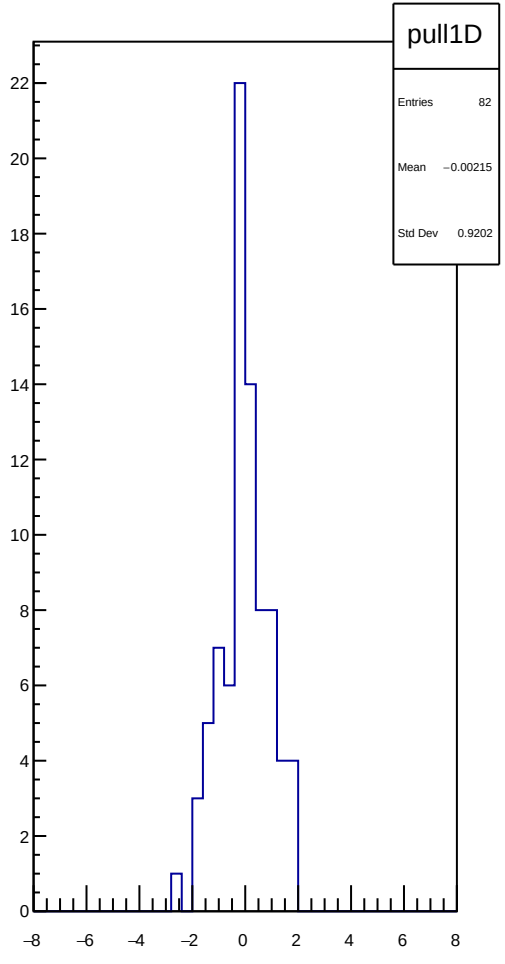

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.82 / 81
p0 −0.06554 ± 0.2946
pull
Entries 82
Mean −4651
Std Dev 0
pull1D
Entries 82
Mean 0.000684
Std Dev 0.9161

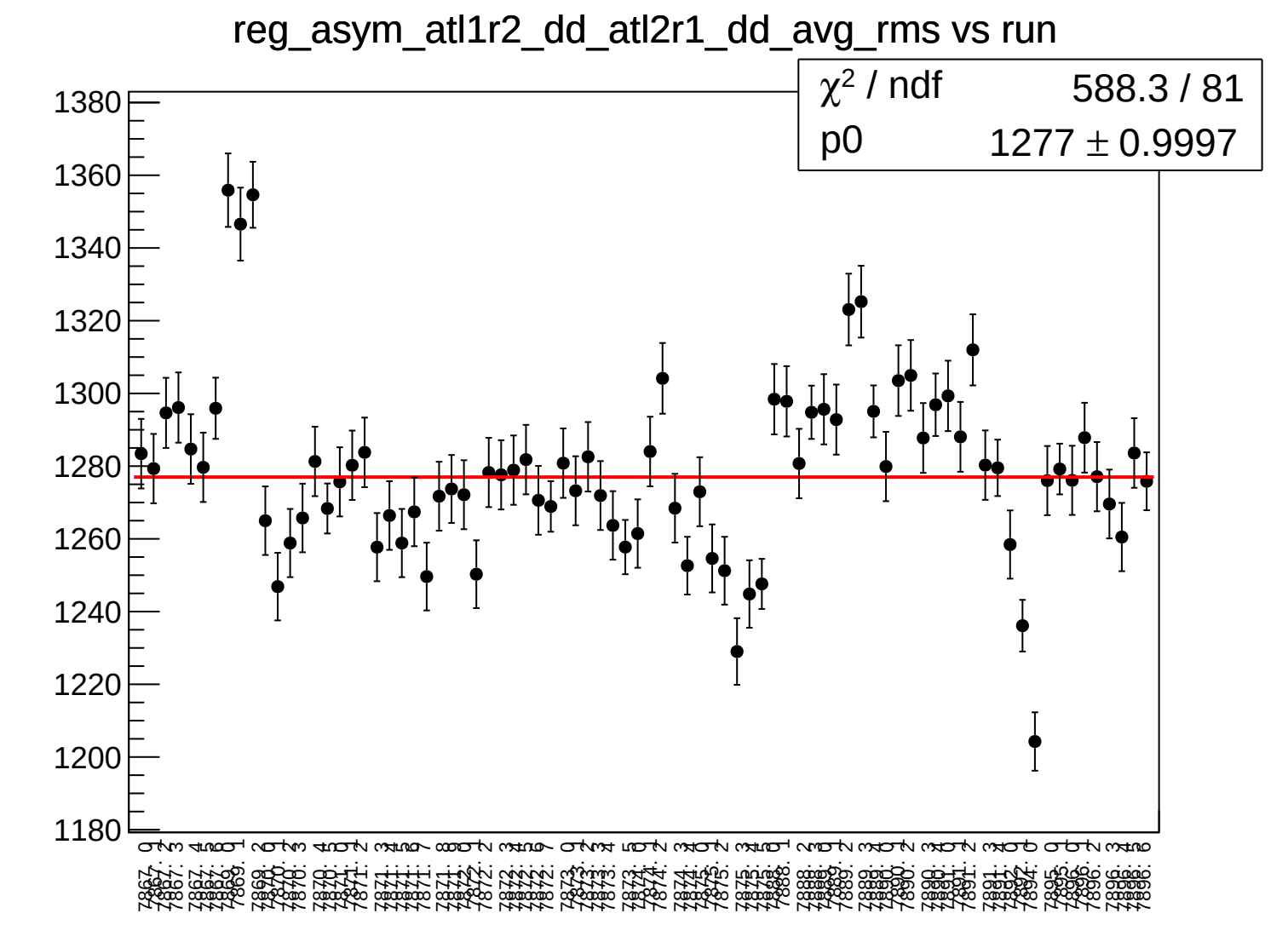

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 81
p0 259.3 ± 0.2083
500
450
400
350
300
250
200
150

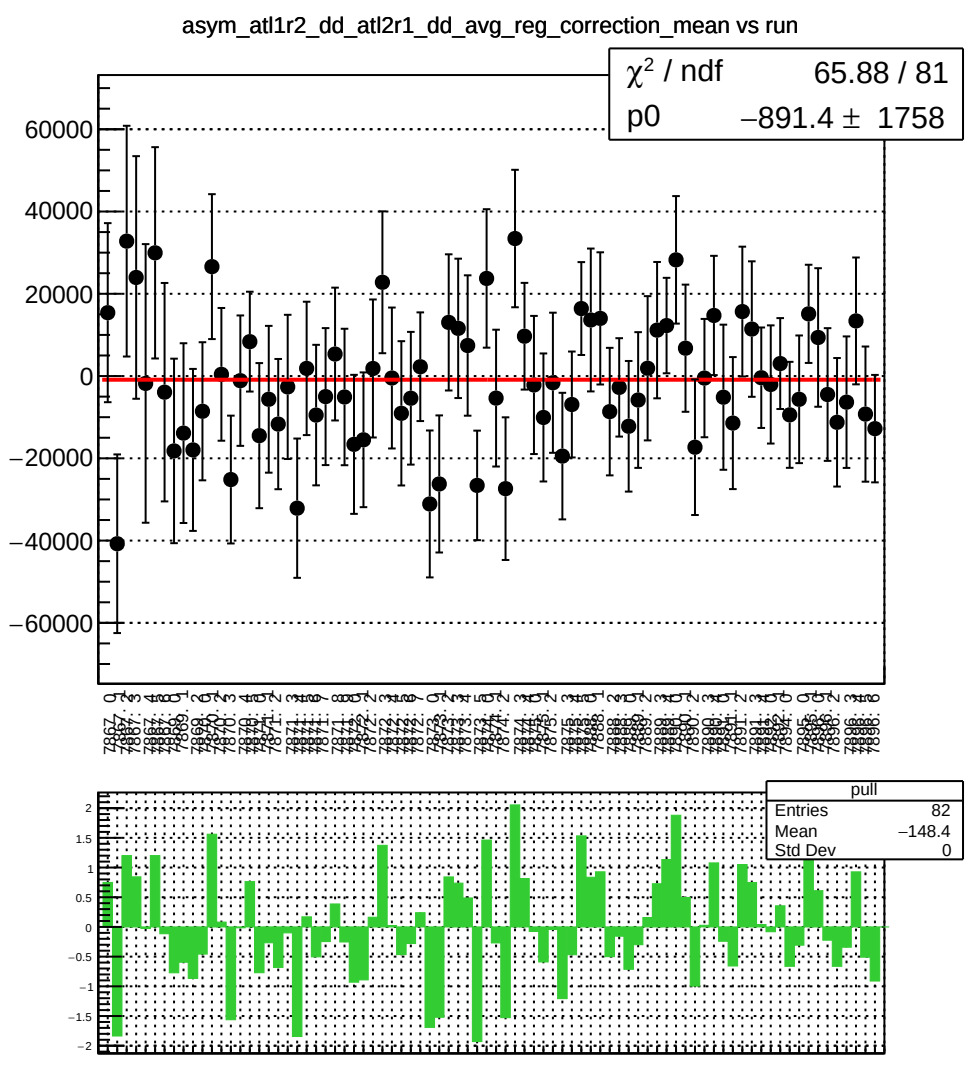

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.74 / 81
p0 −1.942e−13 ± 4.836e−13
40
20
0
−20
−40
pull
Entries 82
Mean 516.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.008388
Std Dev 0.7788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

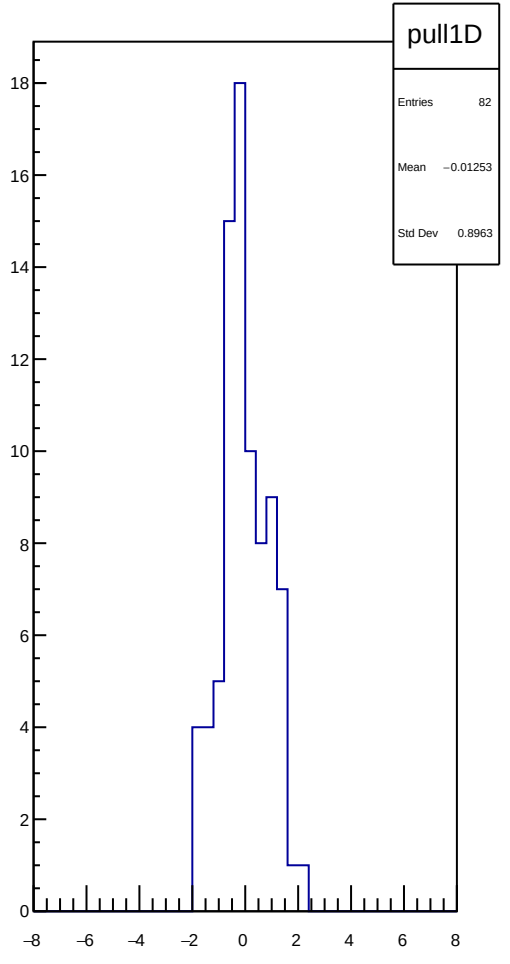

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.468e+05 / 81
p0 3.03e−10 ± 3.419e−13
3
2.5
2
1.5
1
0.5

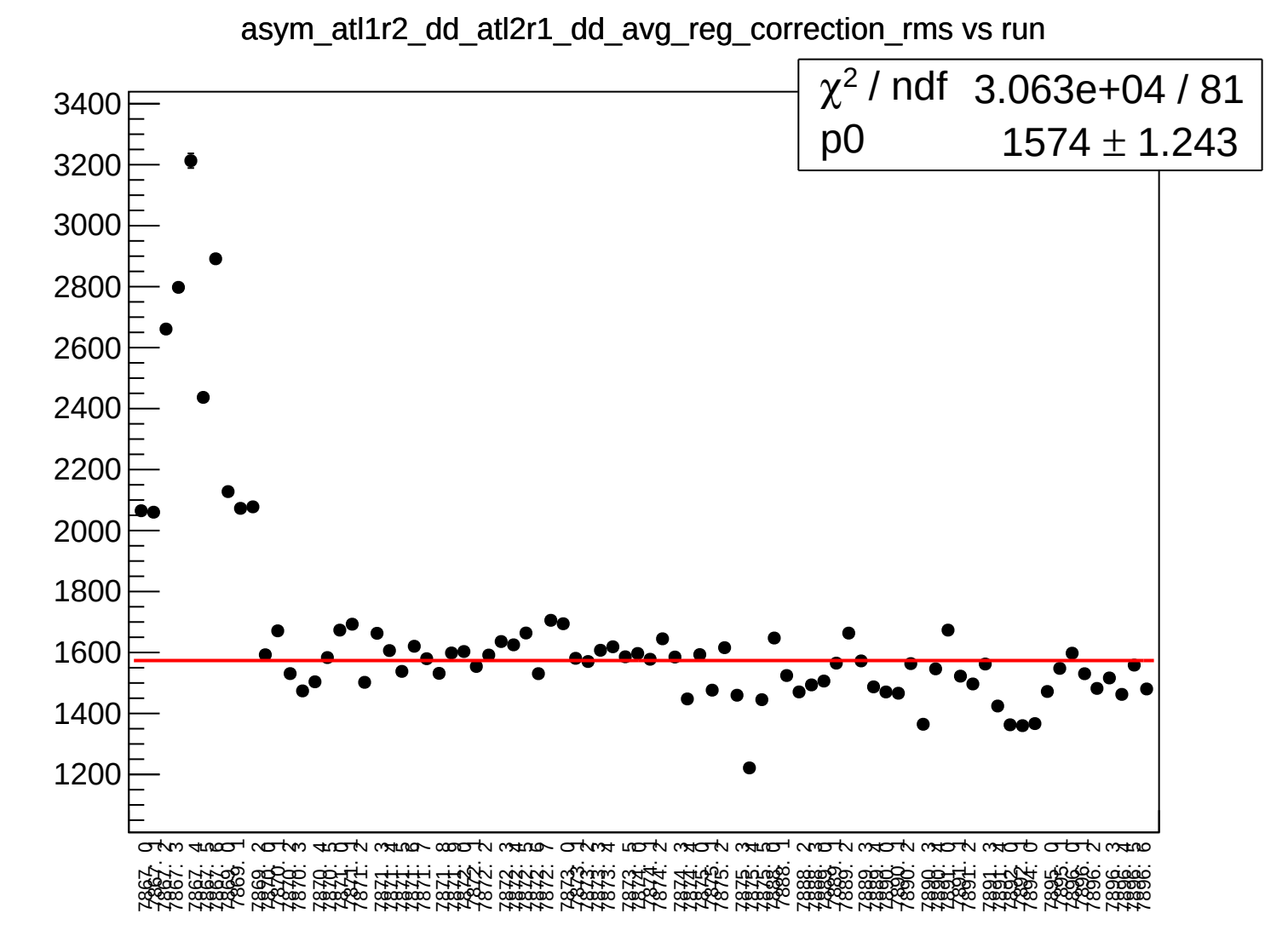

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 69.44 / 81
p0 −213.7 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −234.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

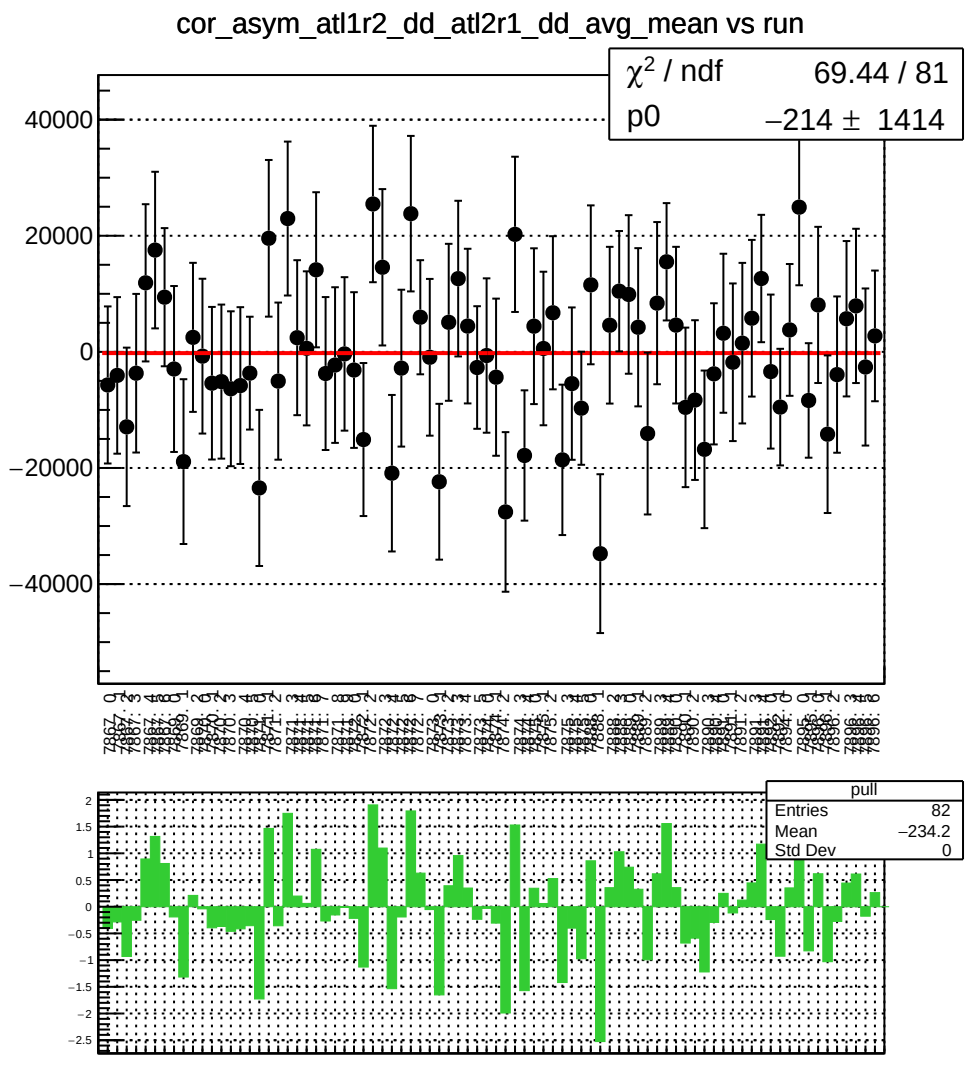

pull1D
Entries 82
Mean −0.00215
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

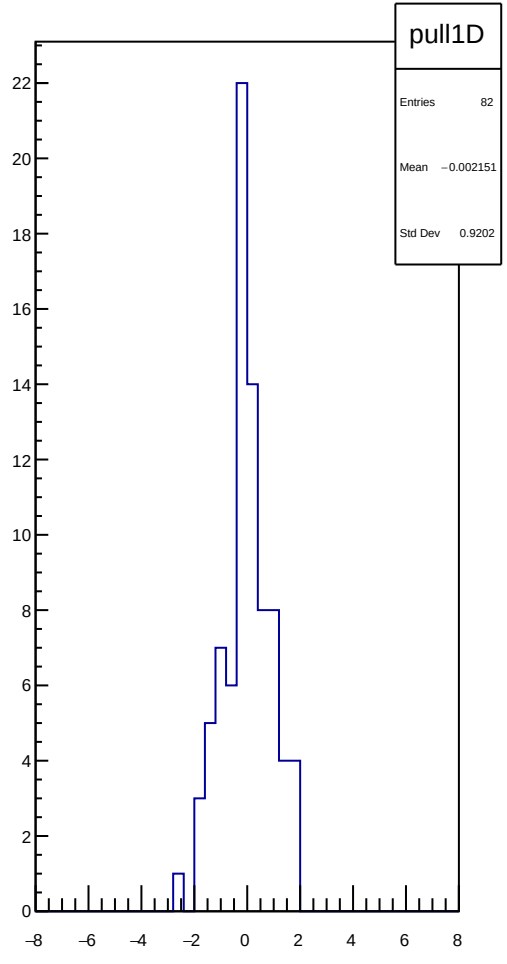

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 588.3 / 81
p0 1277 ± 0.9997
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

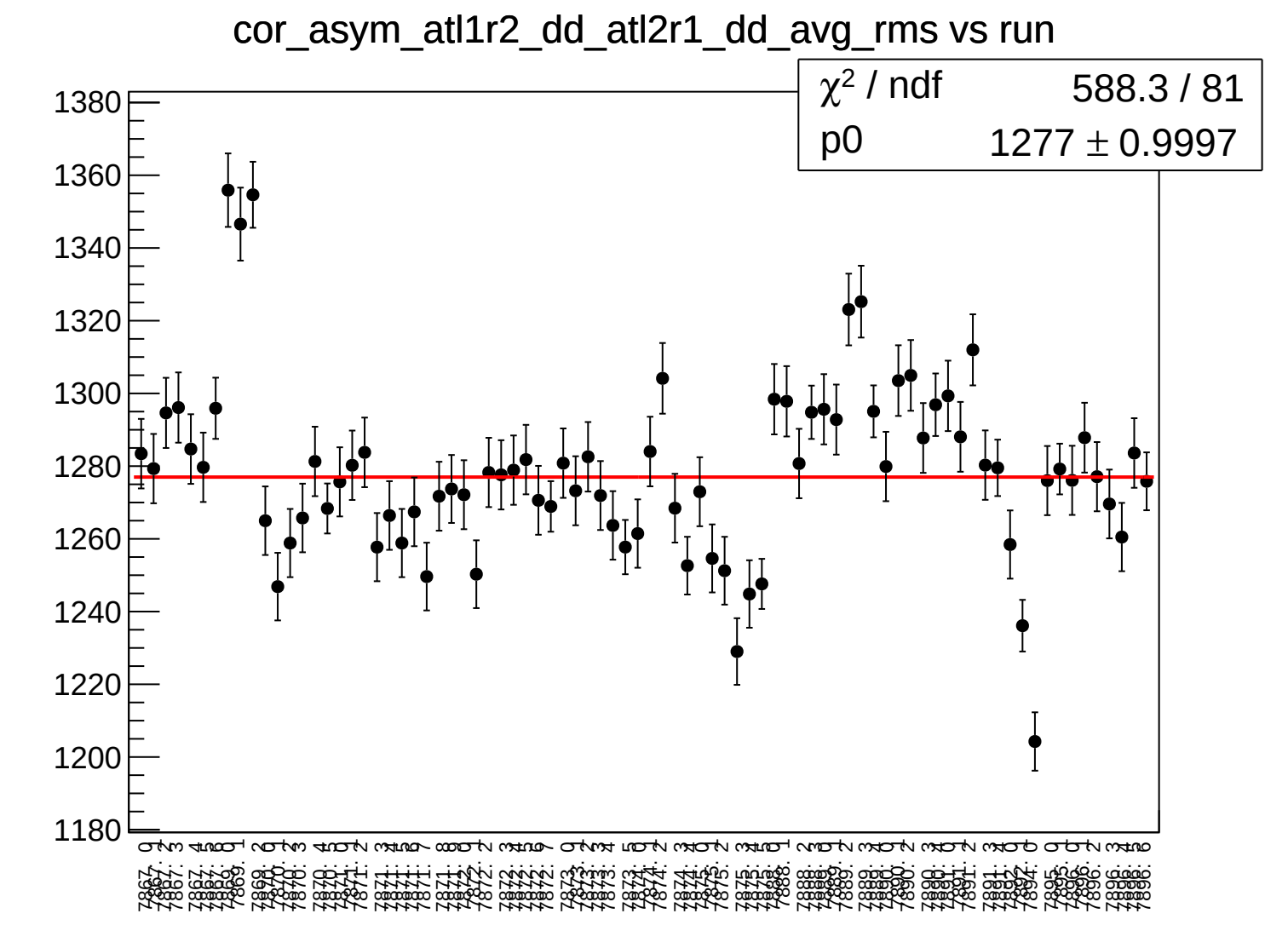

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 65.88 / 81
p0 −891.4 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −148.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

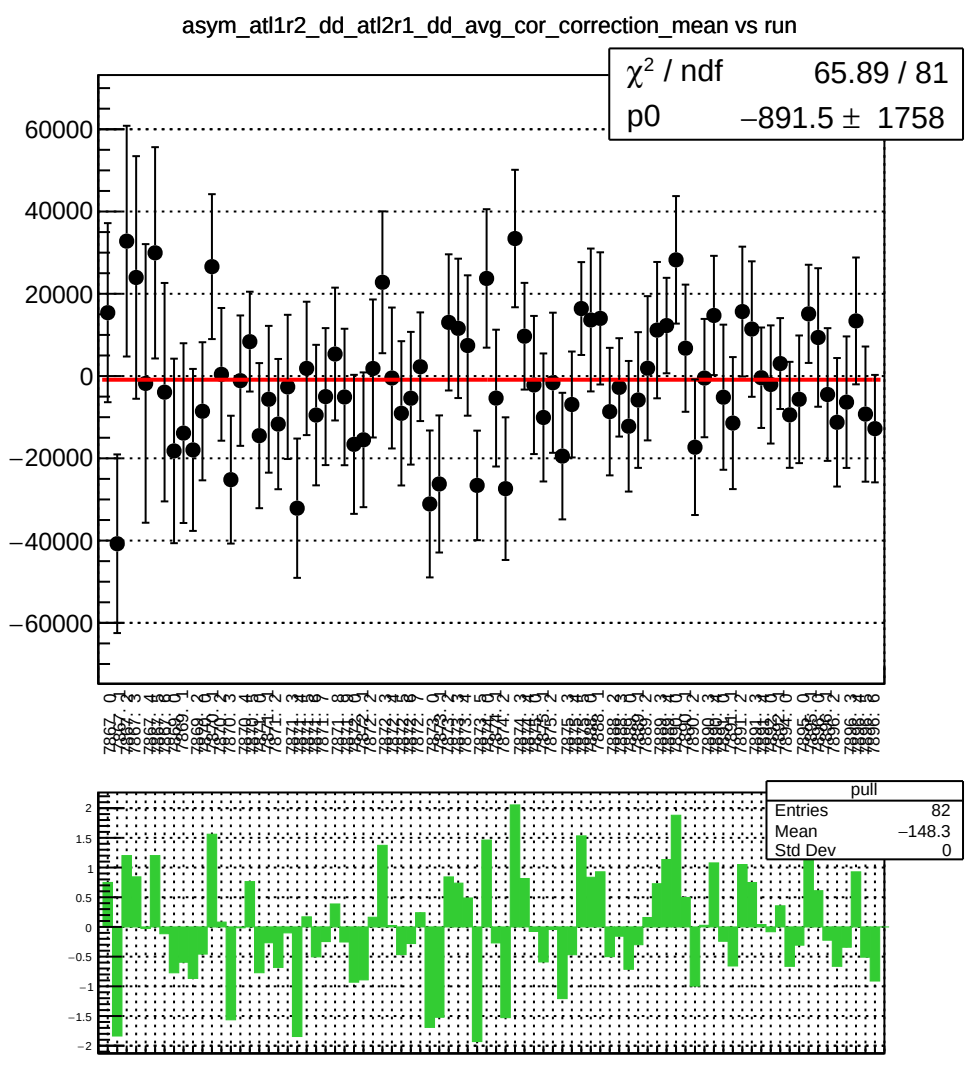

pull1D
Entries 82
Mean −0.01253
Std Dev 0.8963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

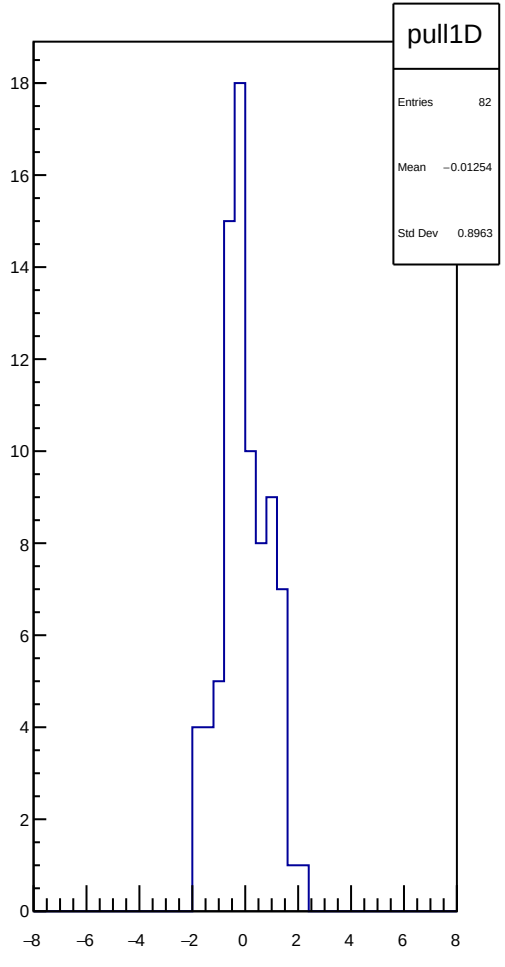

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3.063e+04 / 81
p0 1574 ± 1.243
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

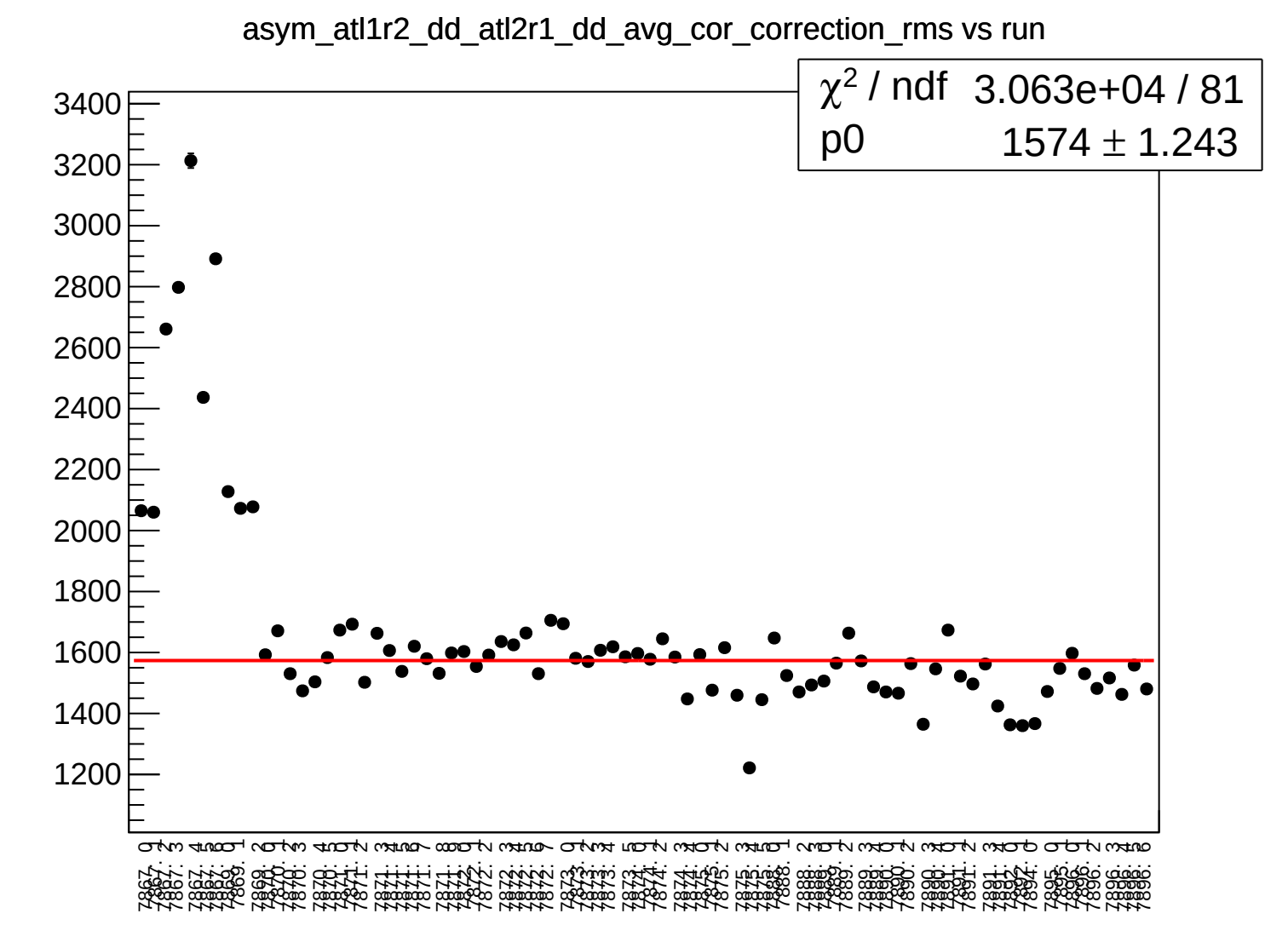

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 69.44 / 81
p0 −214 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −234.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

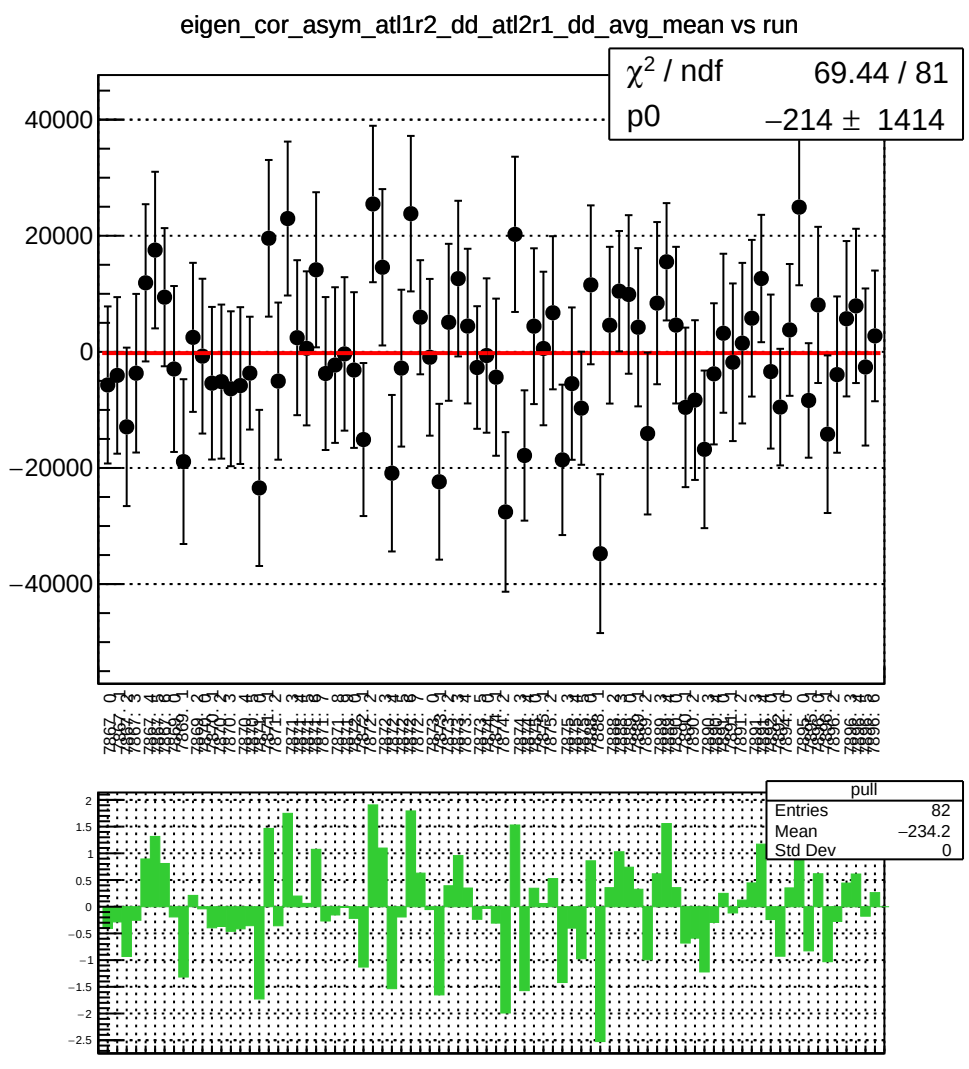

pull1D
Entries 82
Mean −0.002151
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

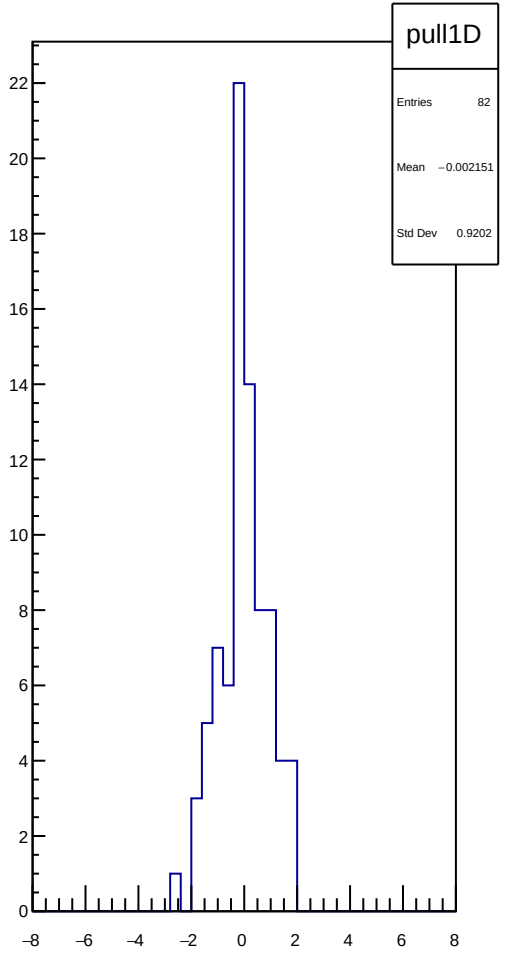

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 588.3 / 81
p0 1277 ± 0.9997
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

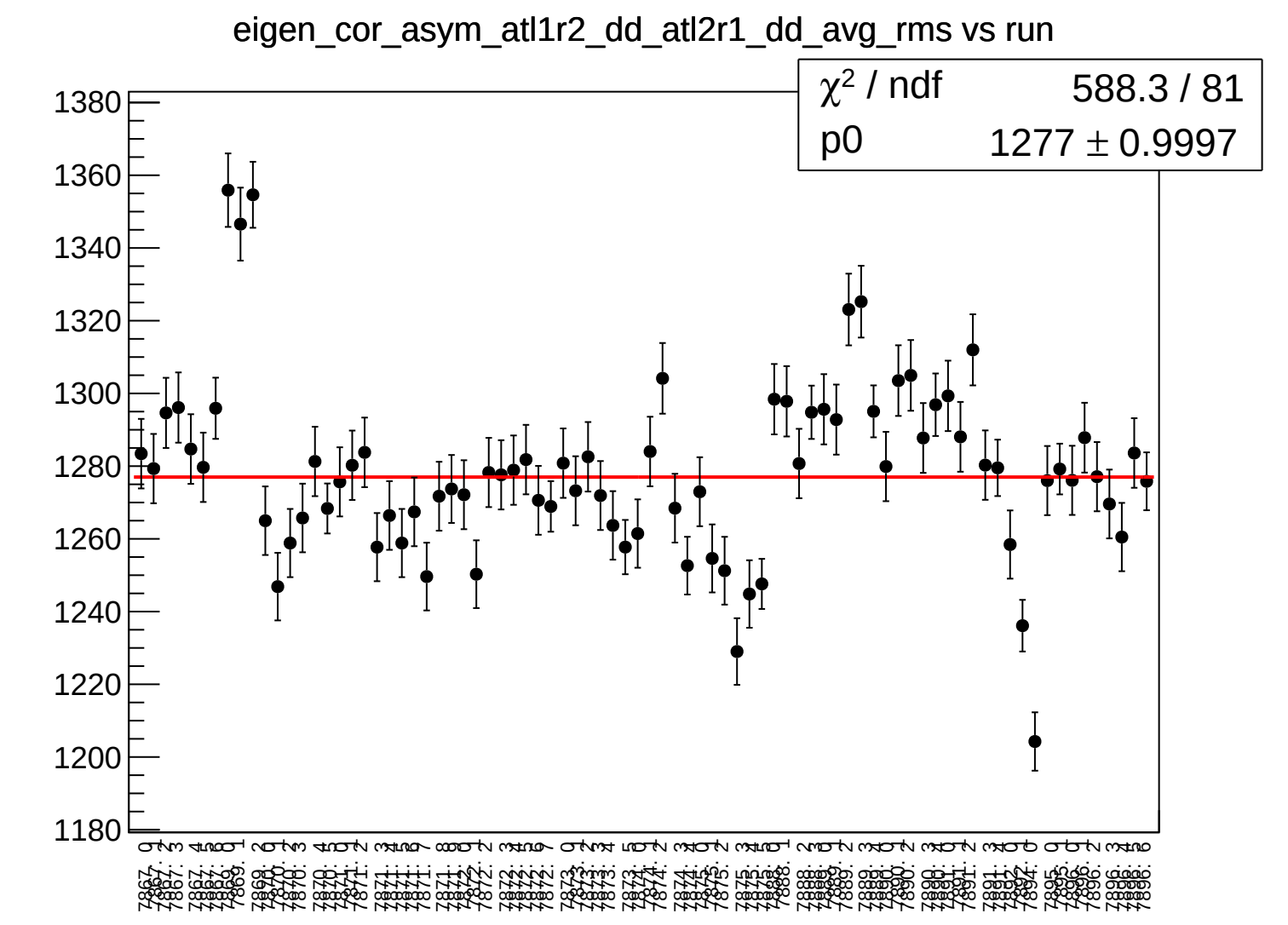

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 65.89 / 81
p0 −891.5 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −148.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

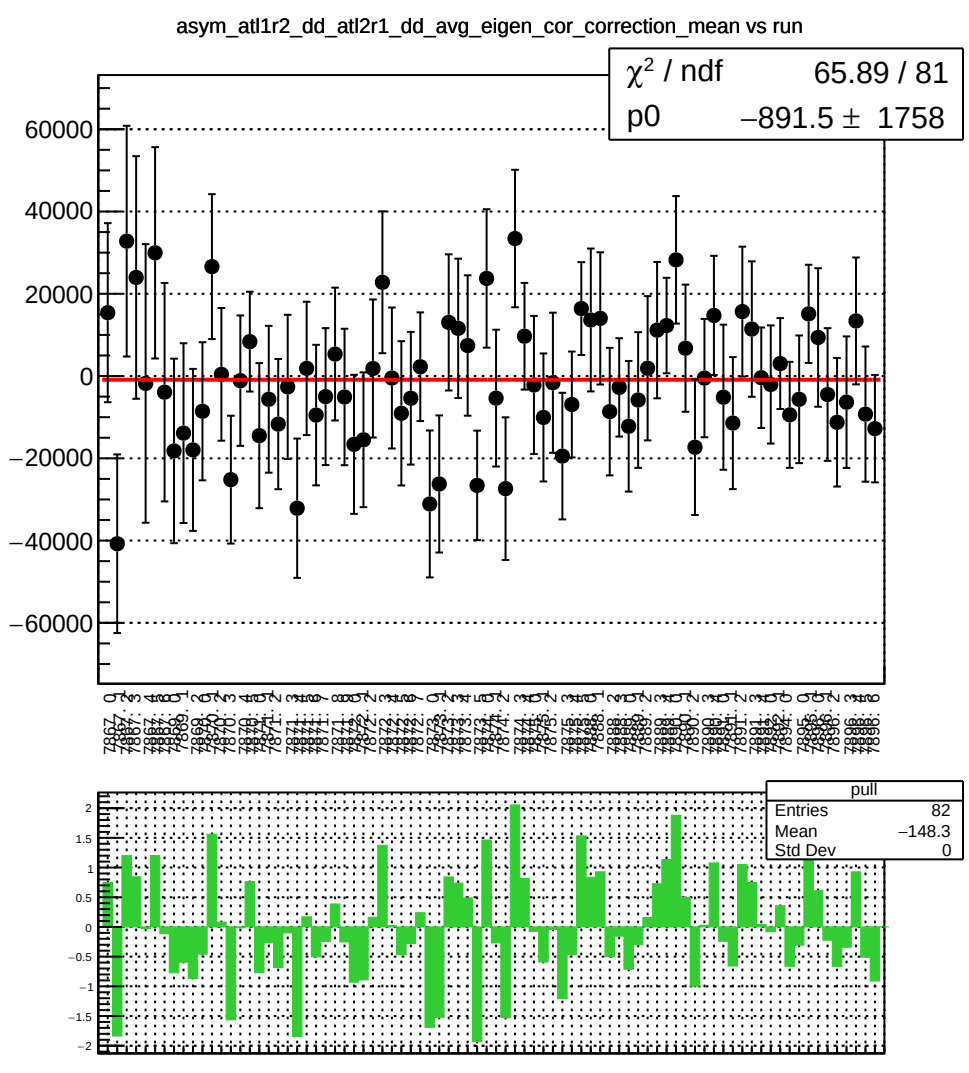

pull1D
Entries 82
Mean −0.01254
Std Dev 0.8963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

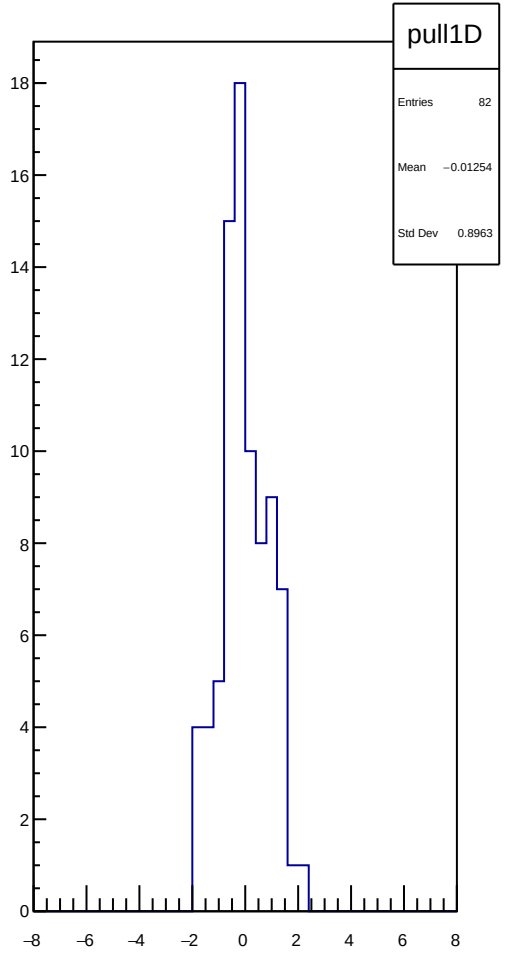

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3.063e+04 / 81
p0 1574 ± 1.243
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

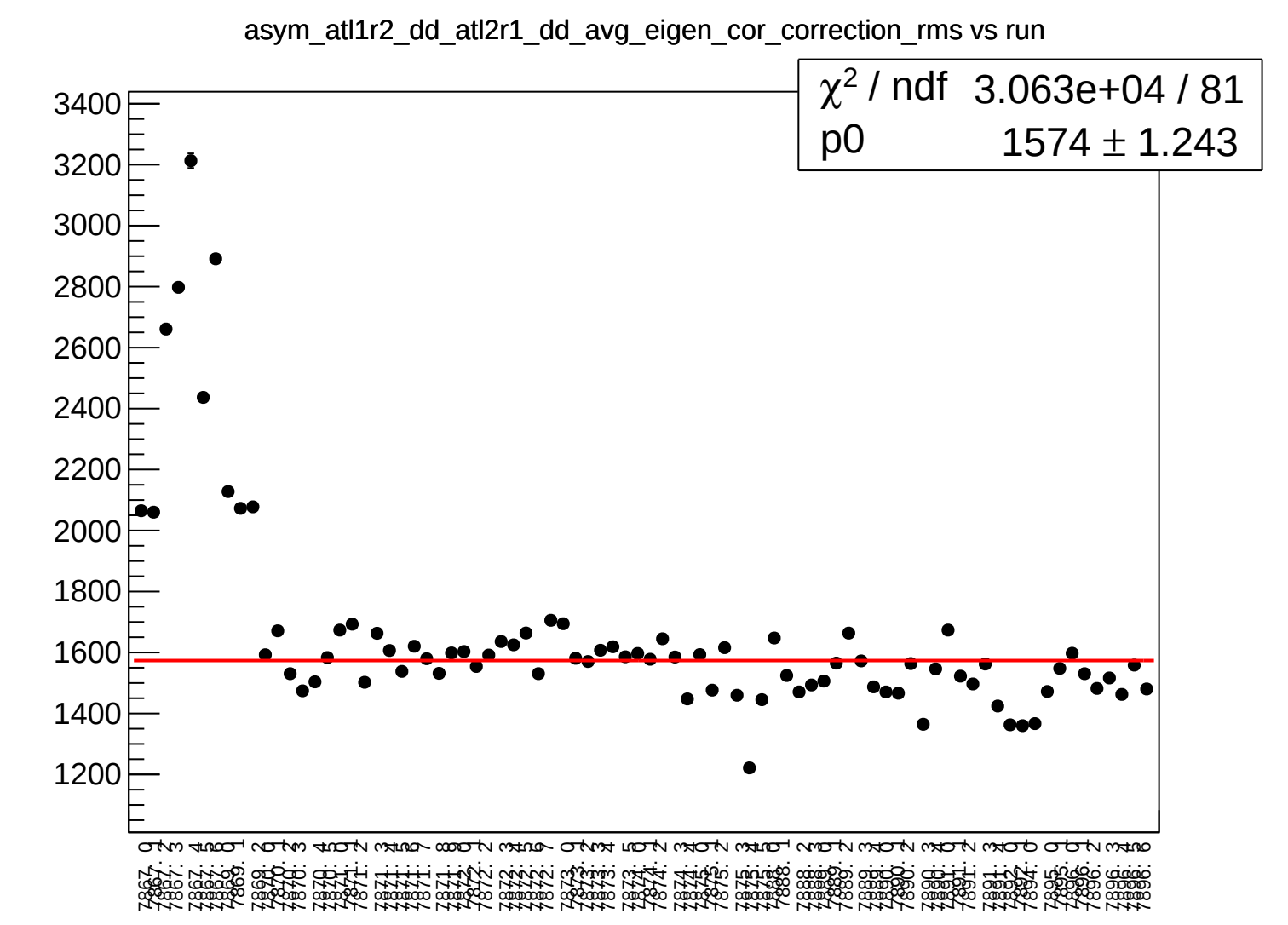

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 69.44 / 81
p0 −214 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −234.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

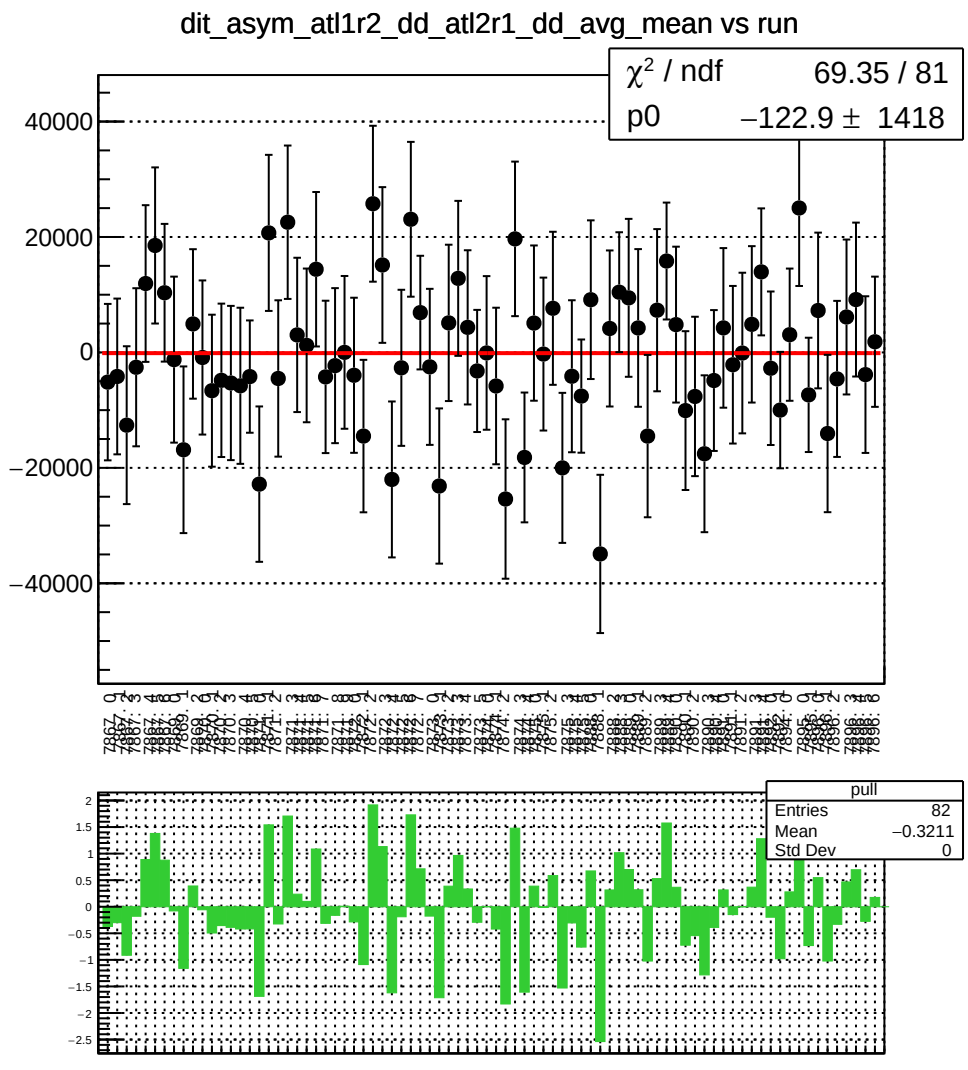

pull1D
Entries 82
Mean −0.002151
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

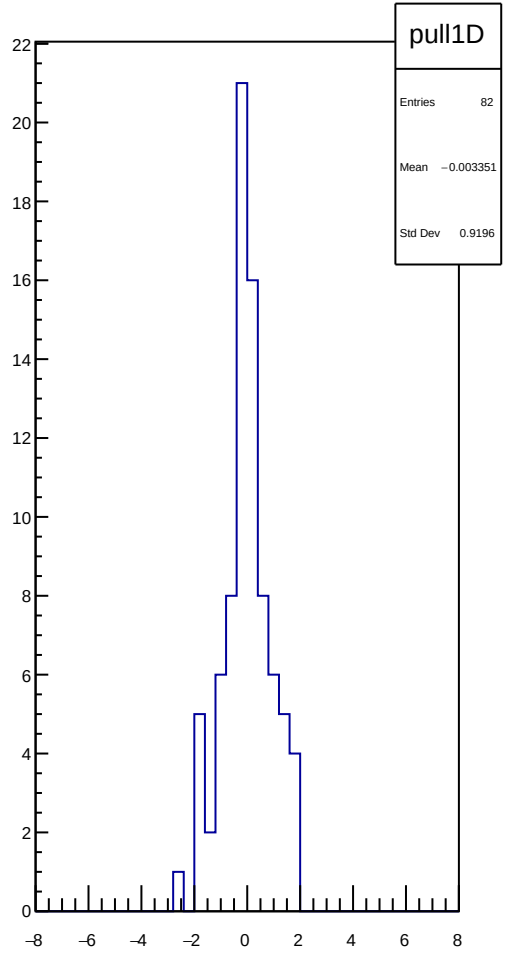

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 588.3 / 81
p0 1277 ± 0.9997
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

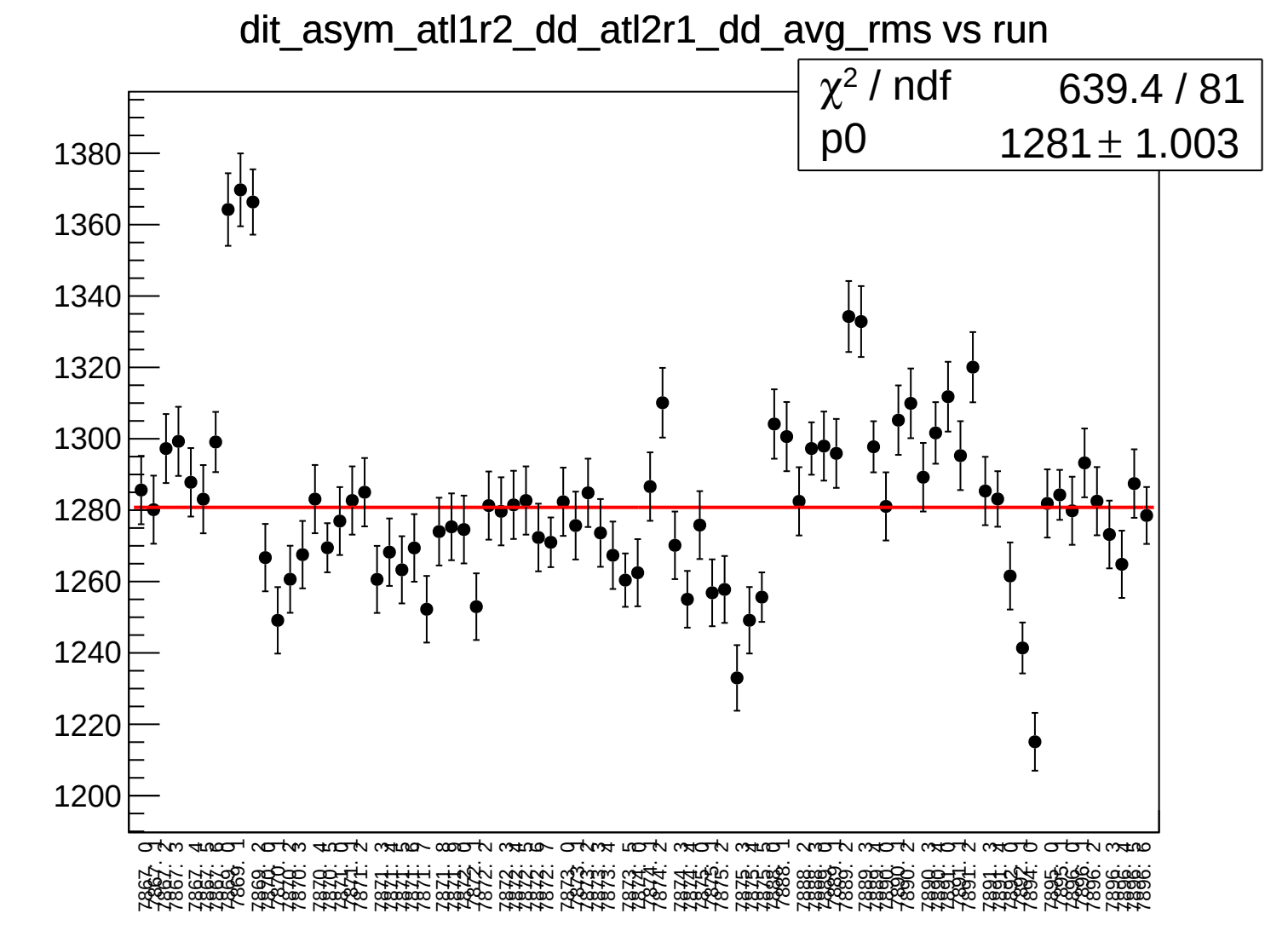

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.89 / 81
p0 −891.5 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −148.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

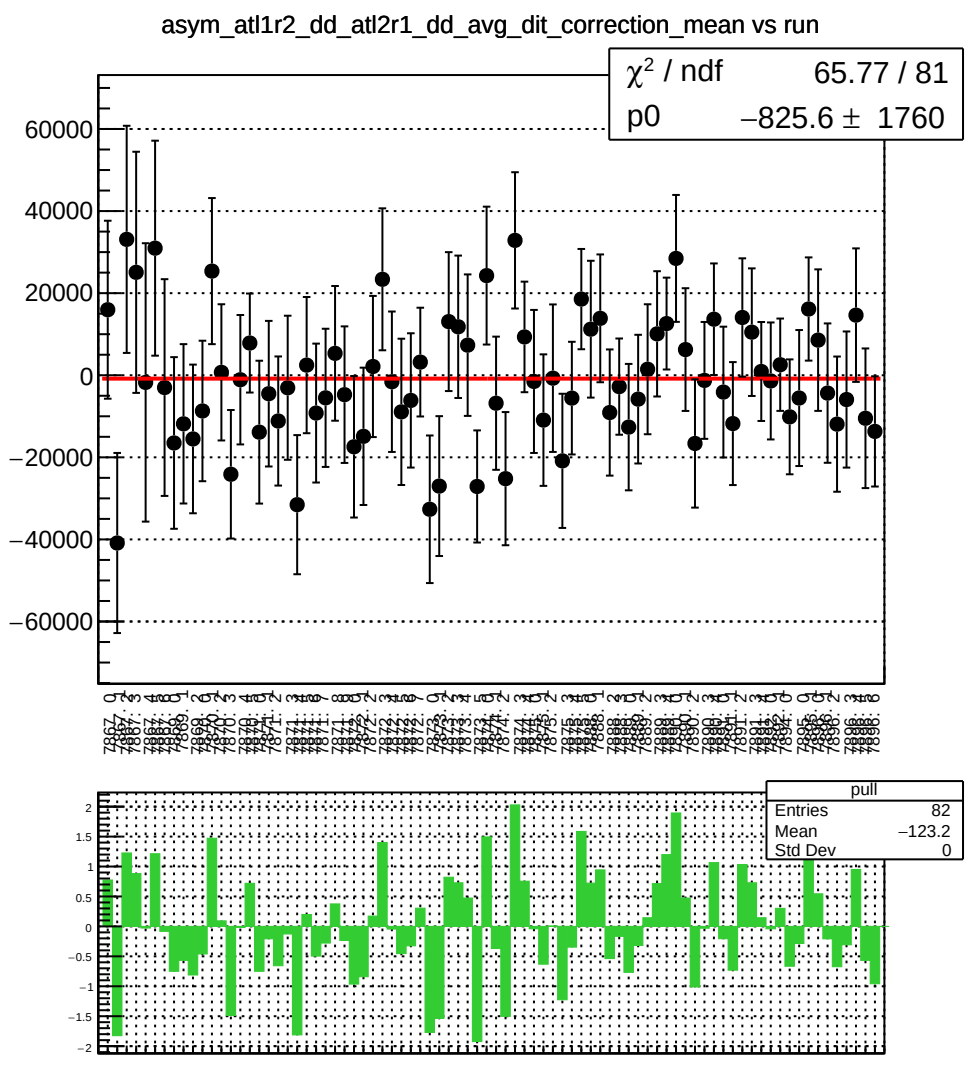

pull1D
Entries 82
Mean −0.01254
Std Dev 0.8963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

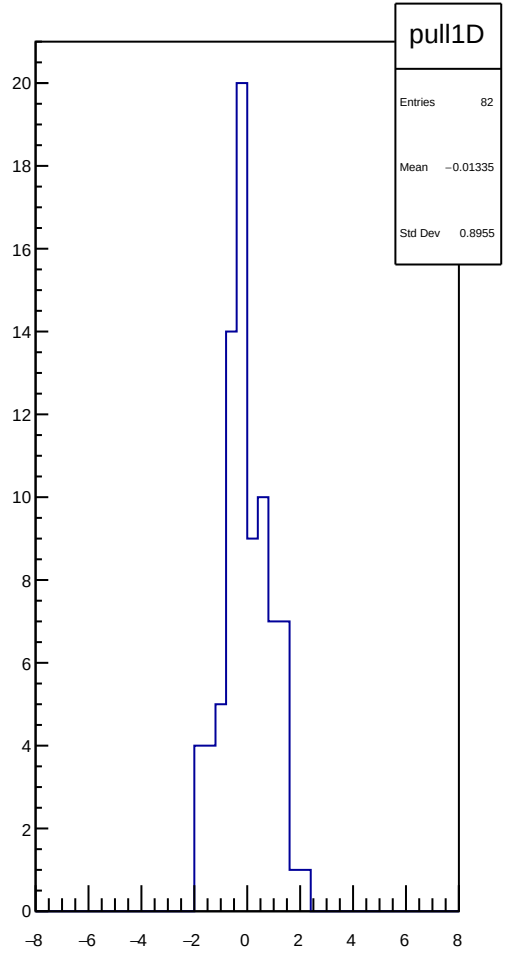

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.063e+04 / 81
p0 1574 ± 1.243
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

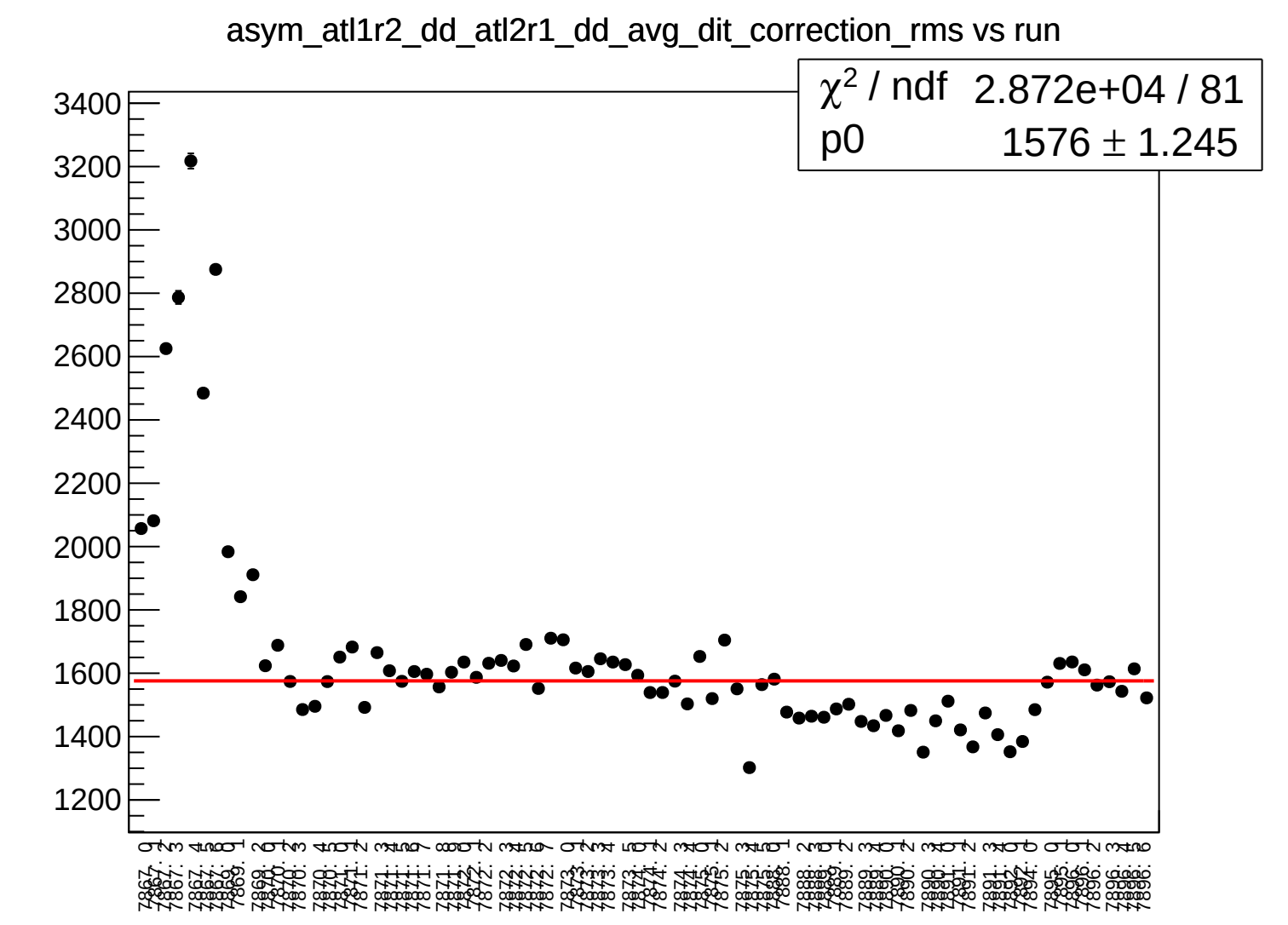

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 69.35 / 81
p0 −122.9 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −0.3211
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

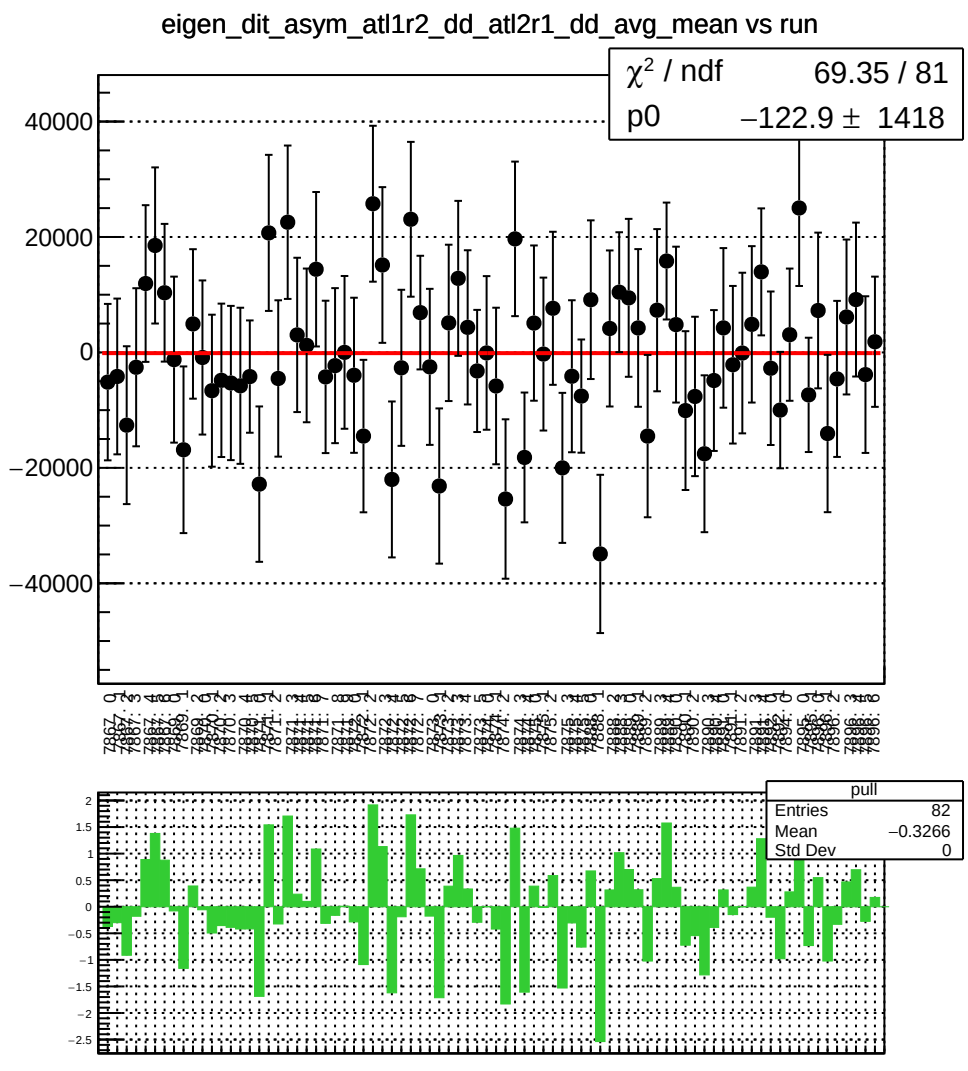

pull1D
Entries 82
Mean −0.003351
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

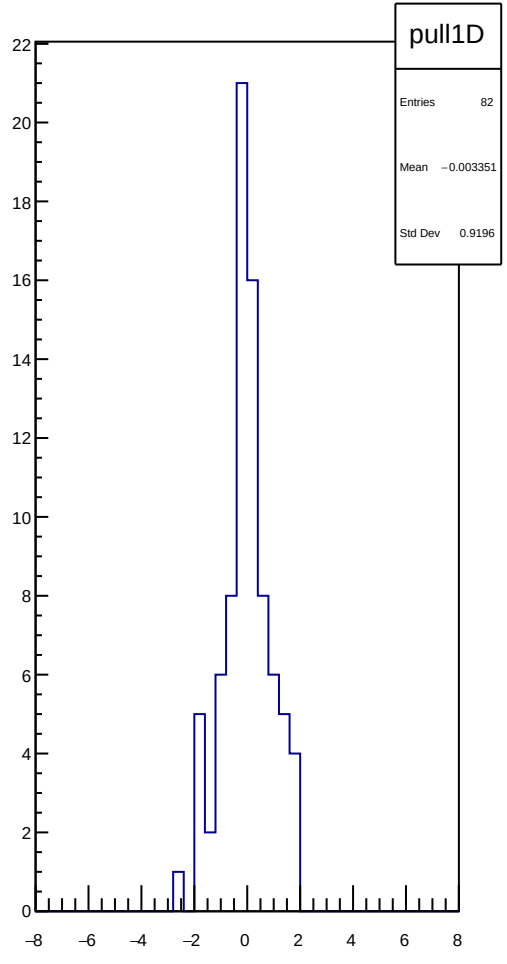

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 639.4 / 81
p0 1281 ± 1.003
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

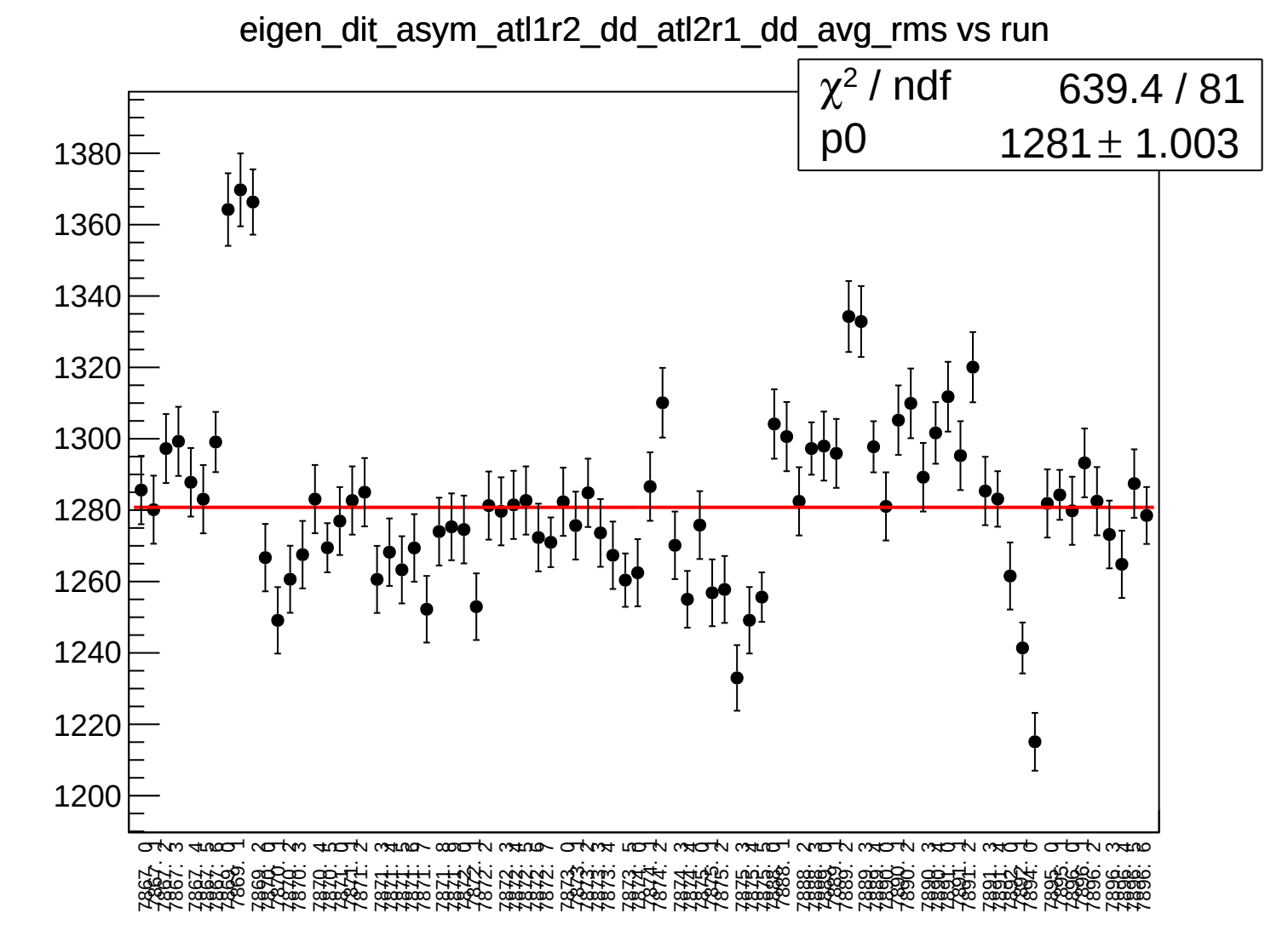

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 65.77 / 81
p0 −825.6 ± 1760
pull
Entries 82
Mean −123.2
Std Dev 0

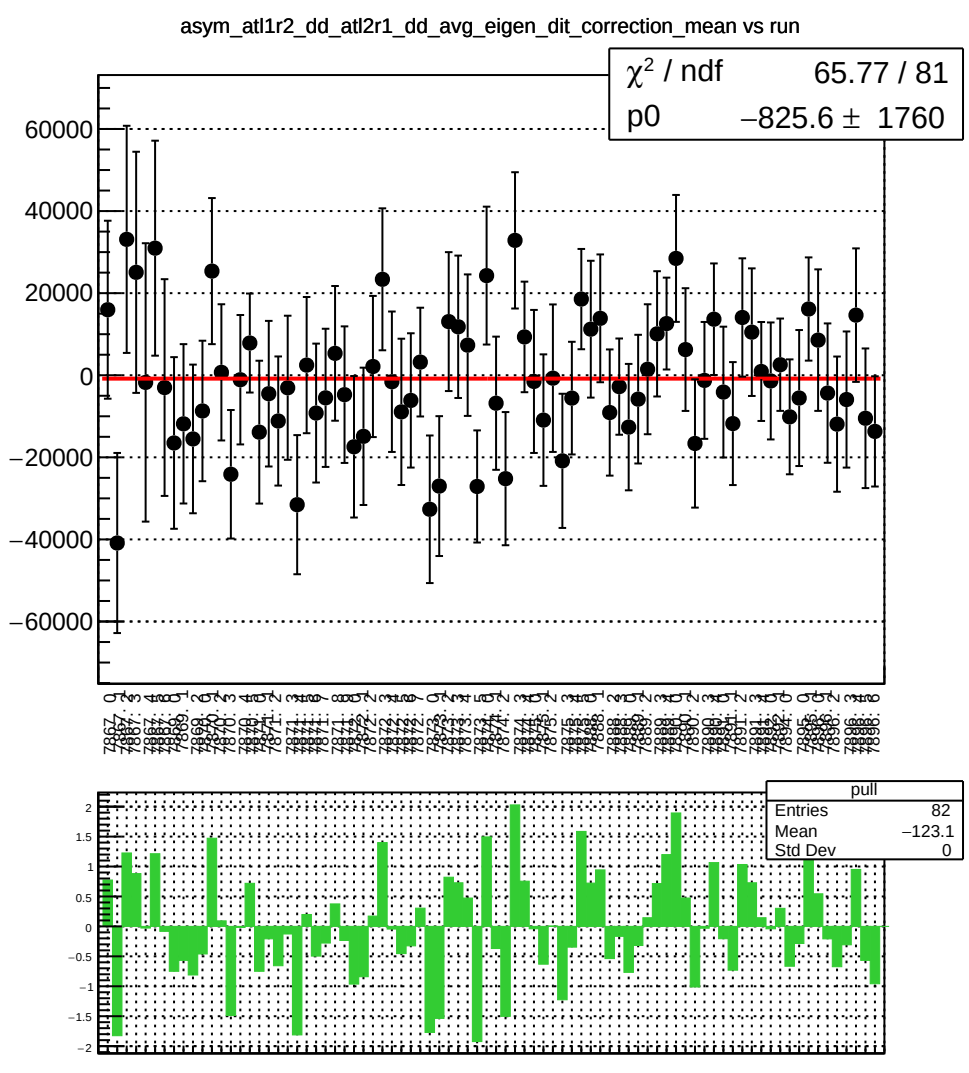

pull1D
Entries 82
Mean −0.01335
Std Dev 0.8955

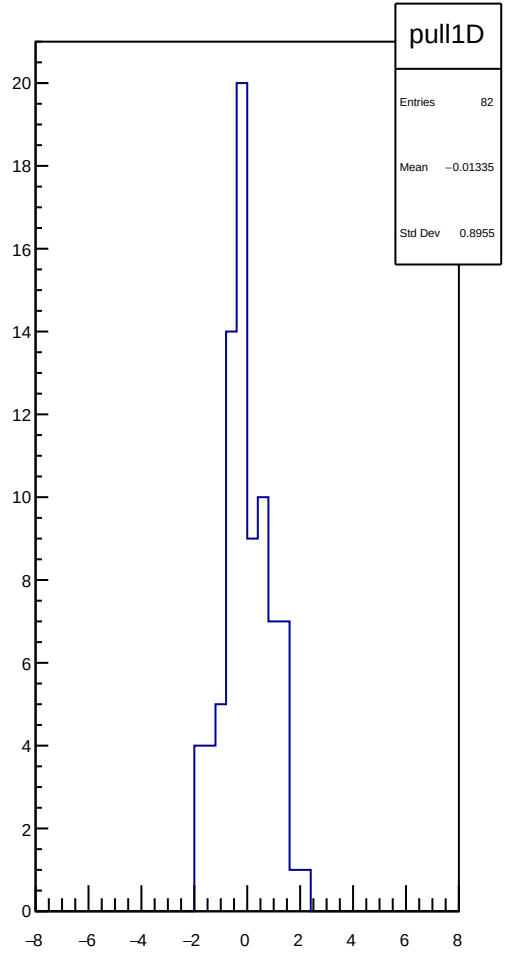

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.872e+04 / 81
p0 1576 ± 1.245
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

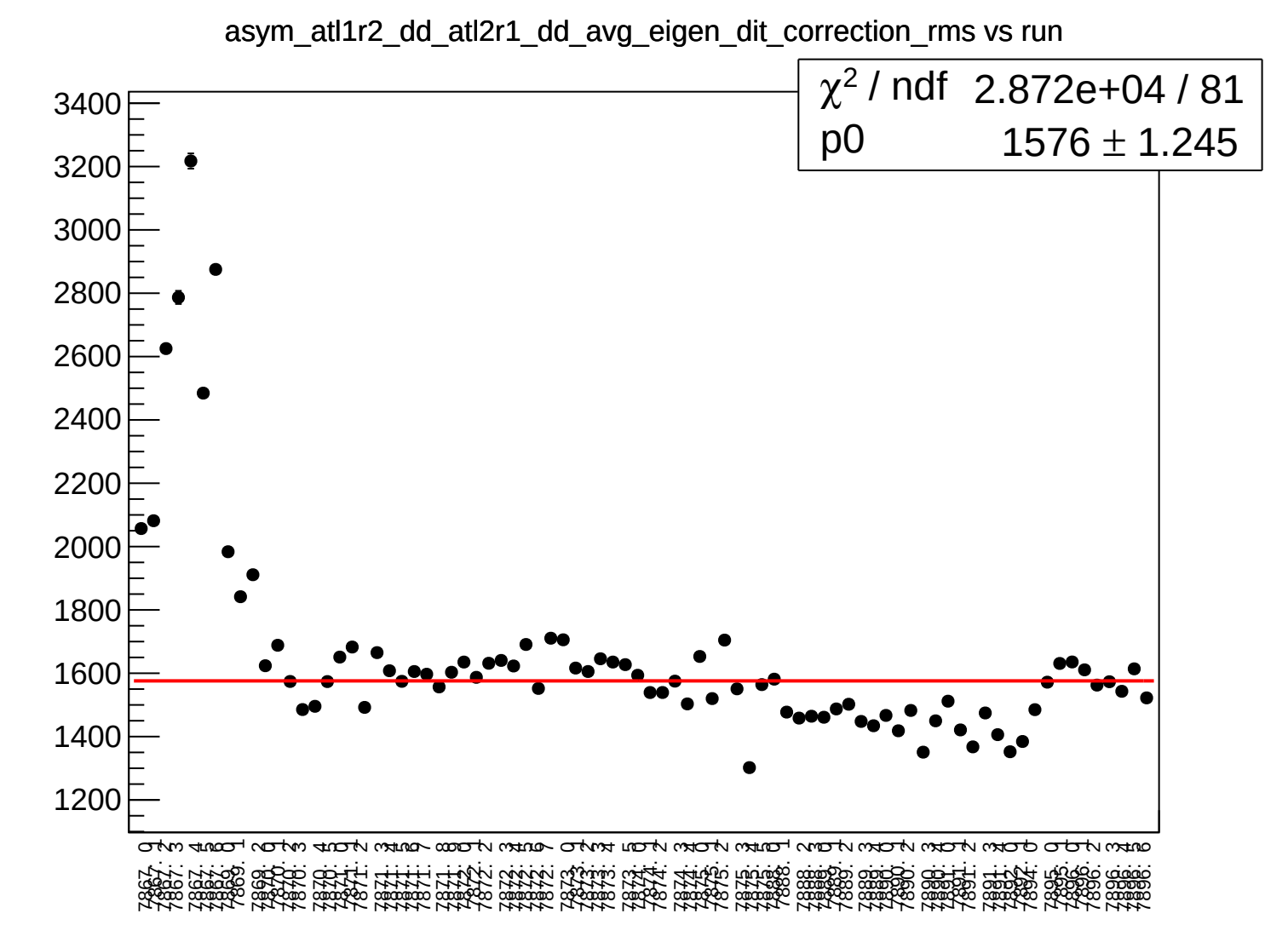

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 69.35 / 81
p0 −122.9 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −0.3266
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

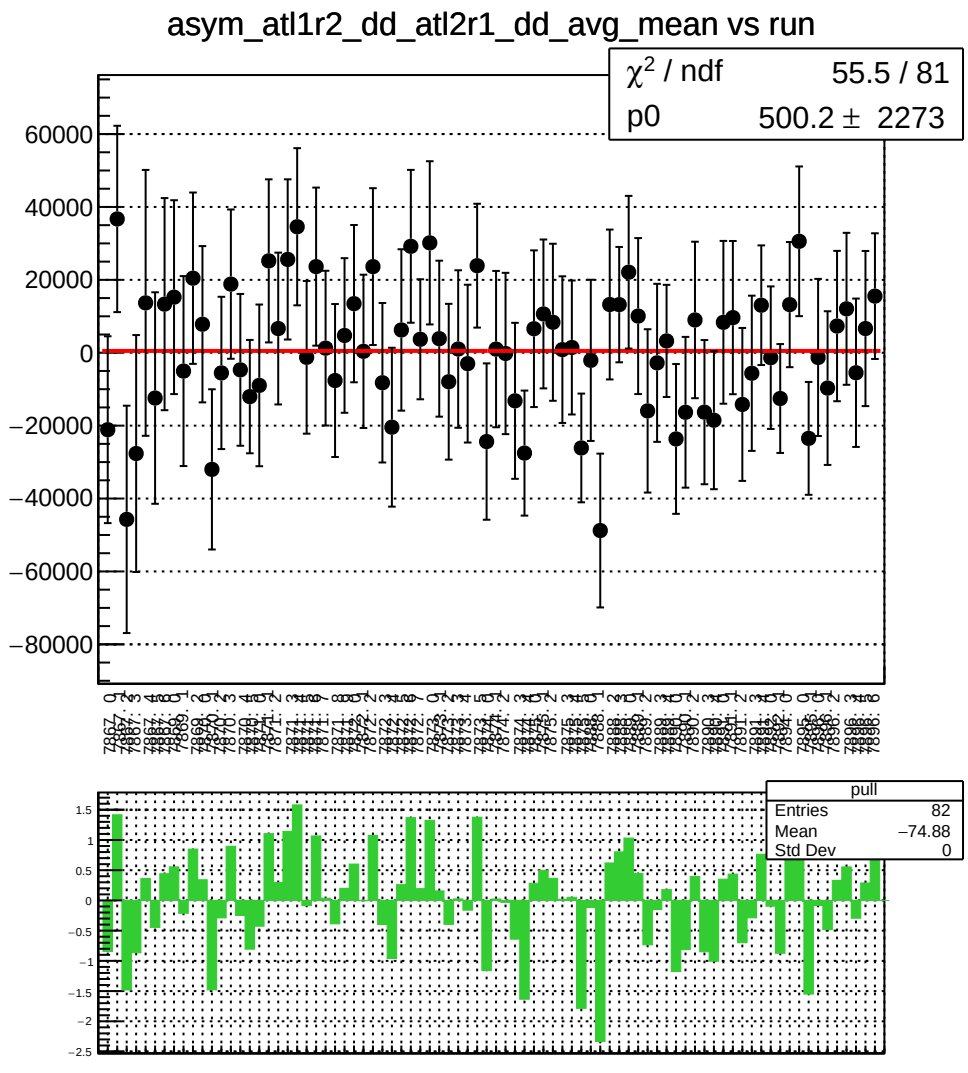

pull1D
Entries 82
Mean −0.003351
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

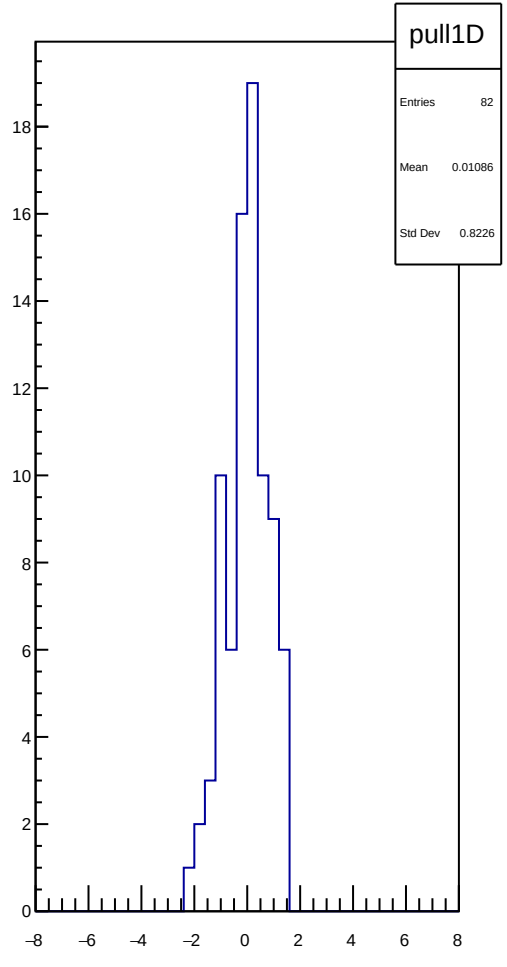

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 639.4 / 81
p0 1281 ± 1.003
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

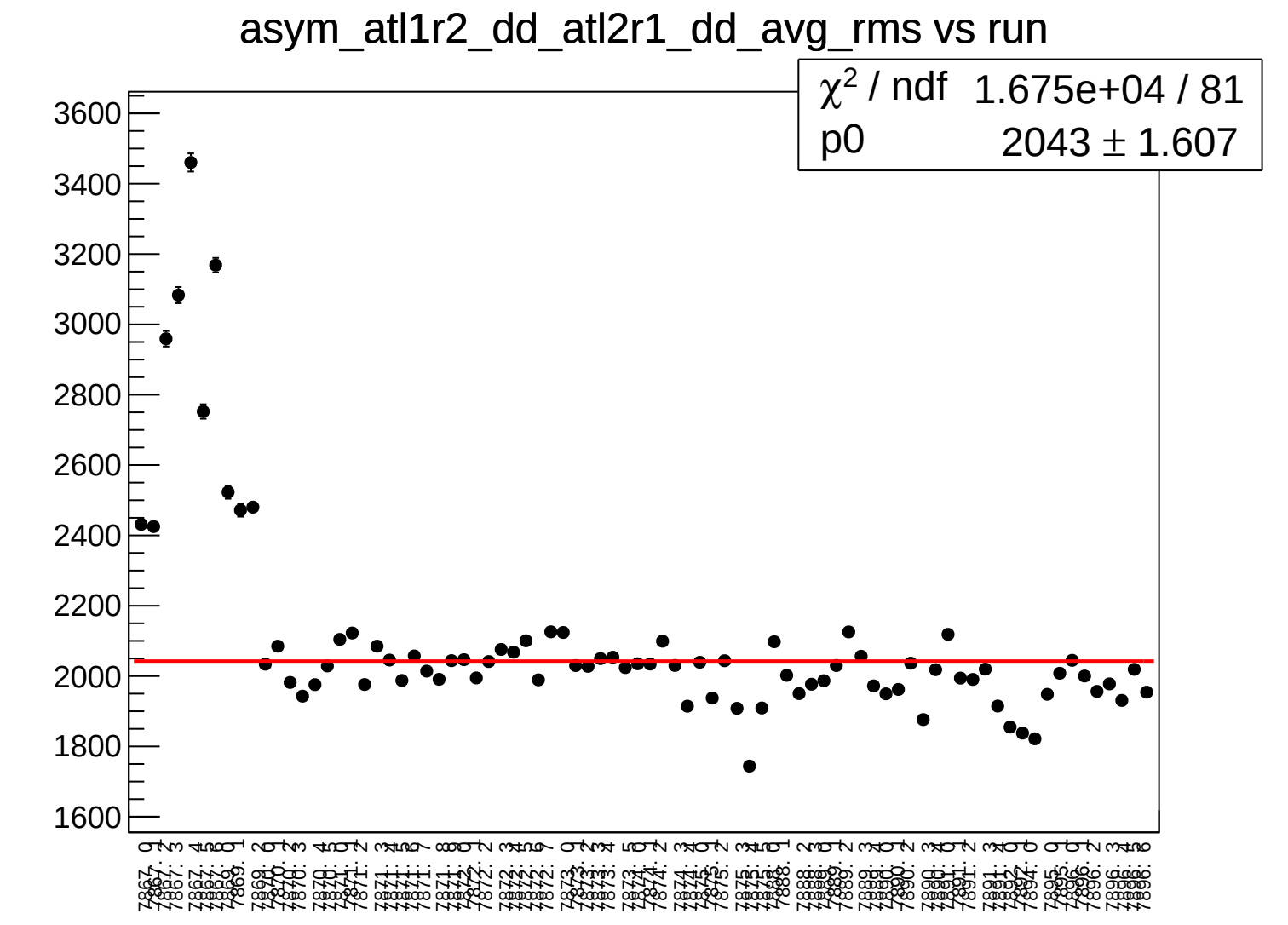

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.77 / 81
p0 −825.6 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −123.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

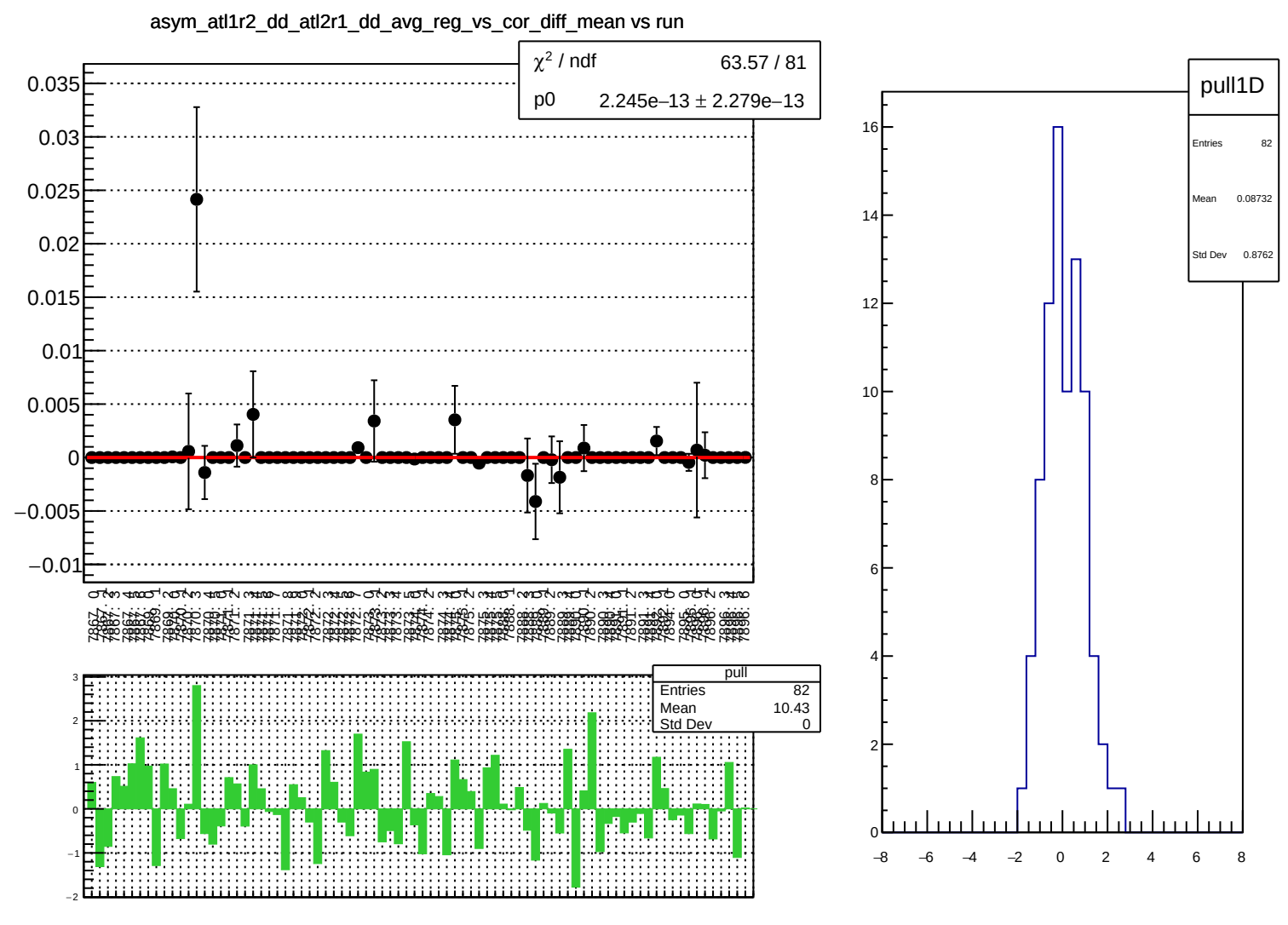

pull1D
Entries 82
Mean −0.01335
Std Dev 0.8955
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

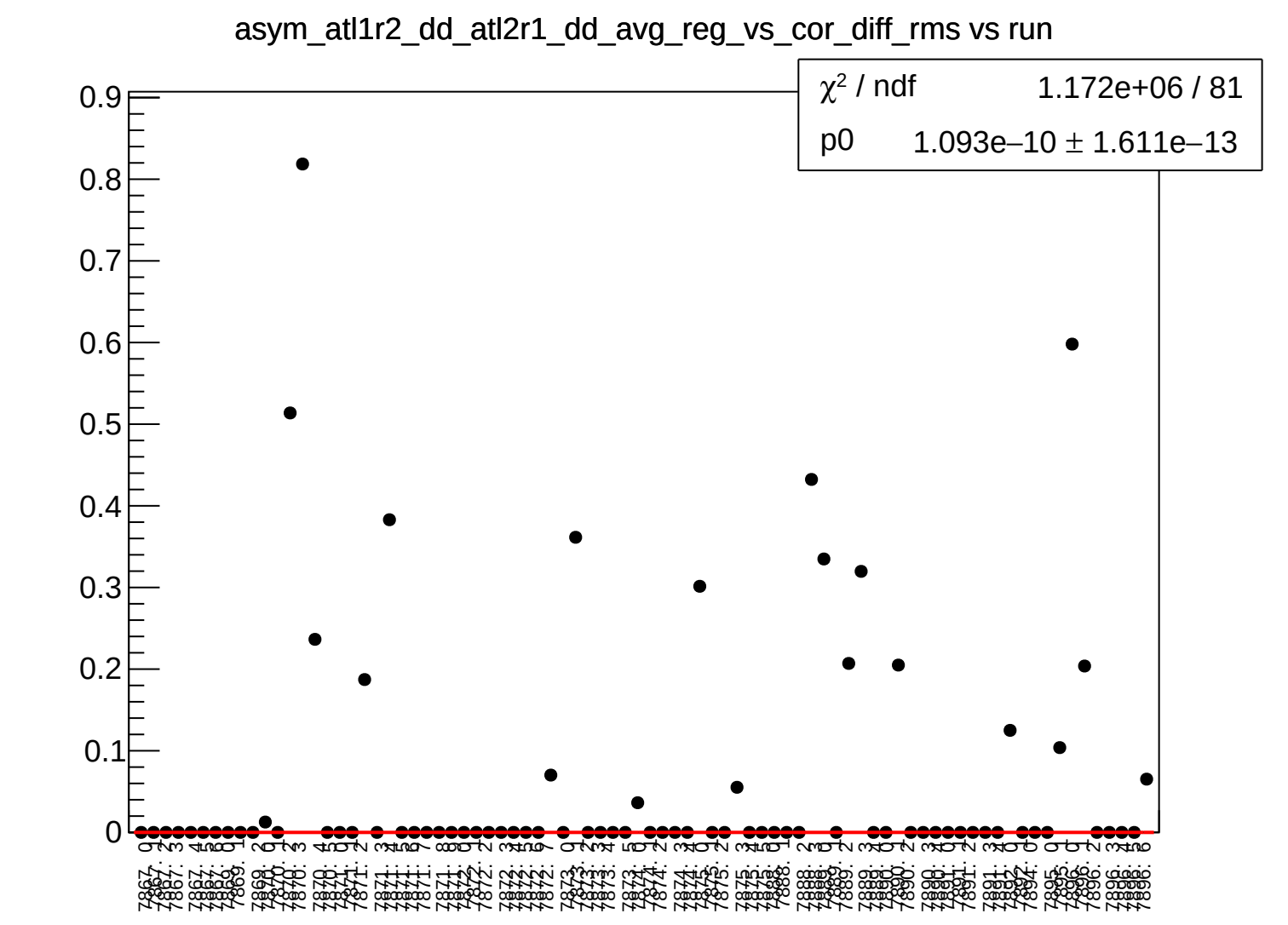

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.872e+04 / 81
p0 1576 ± 1.245
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

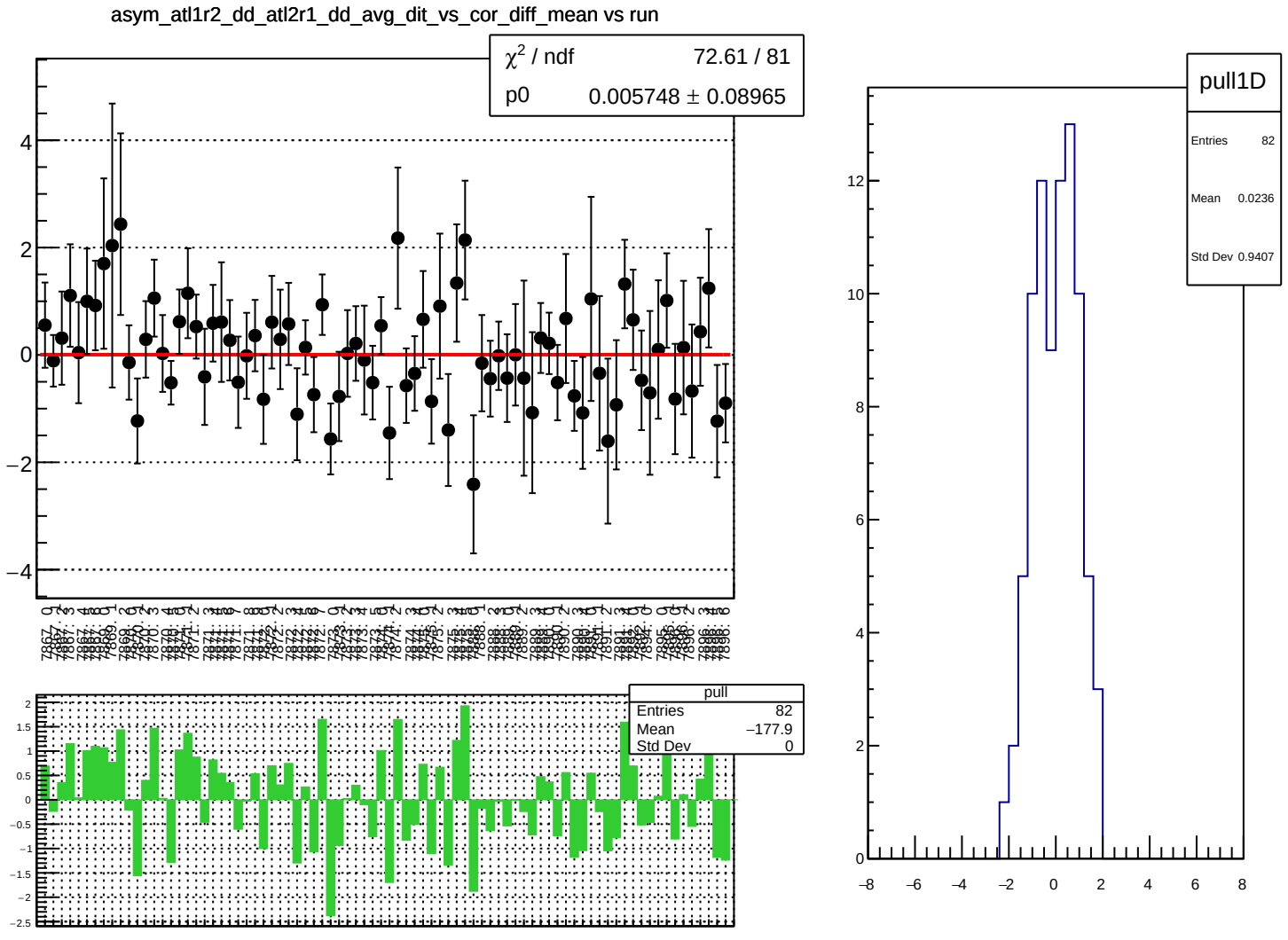

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 55.5 / 81
p0 500.2 ± 2273
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −74.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

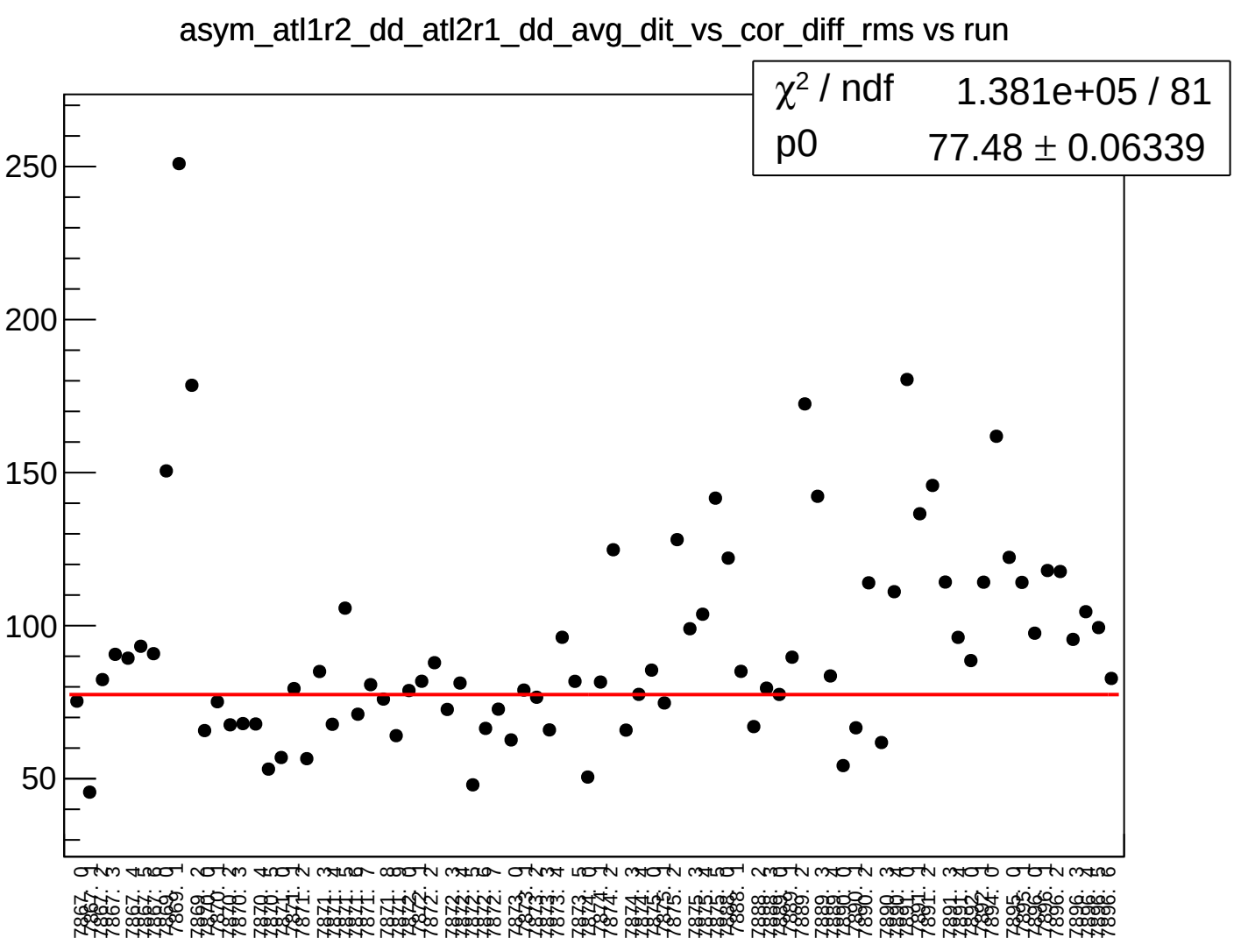

pull1D
Entries 82
Mean 0.01086
Std Dev 0.8226
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

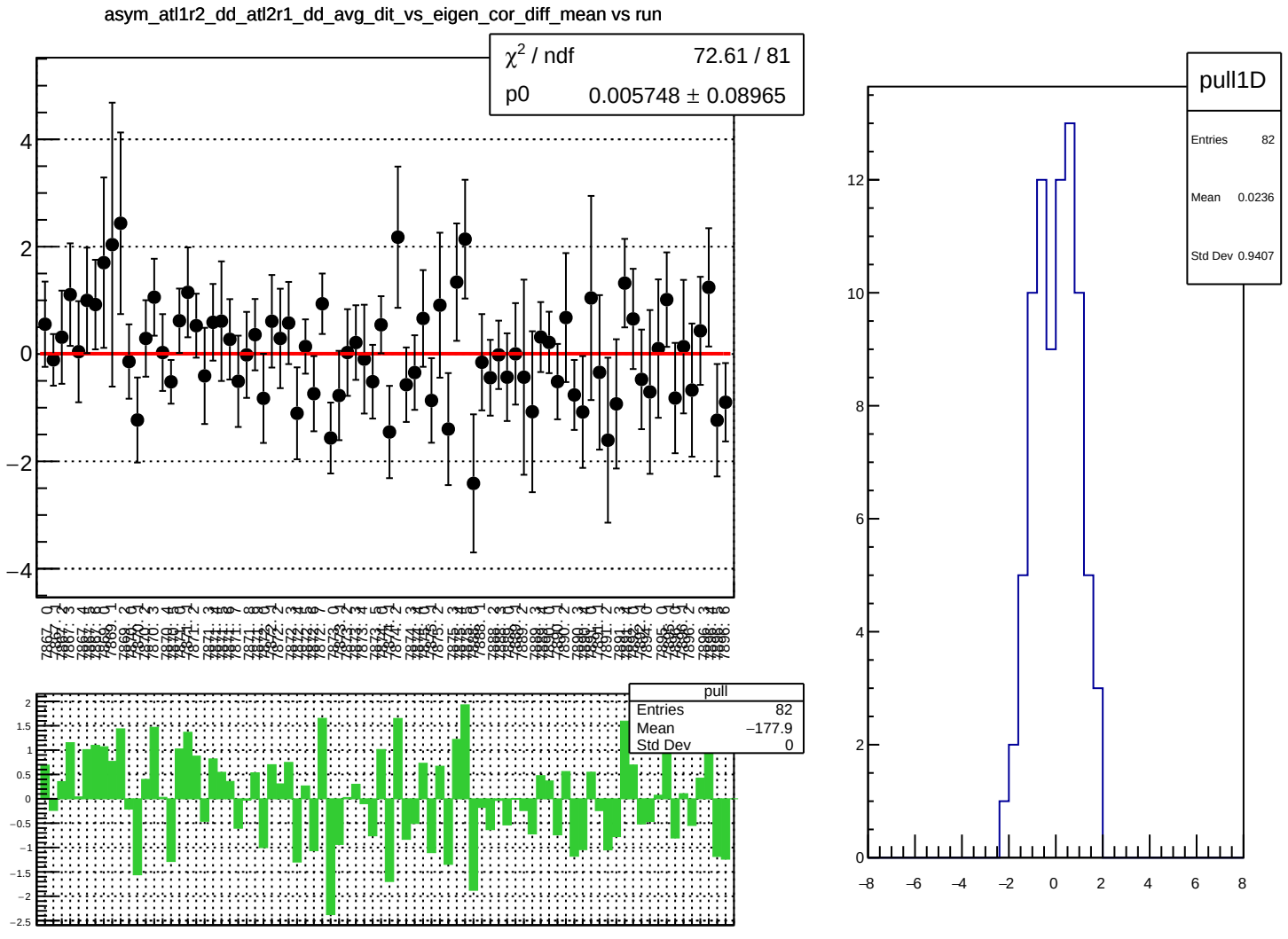

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.675e+04 / 81
p0 2043 ± 1.607
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

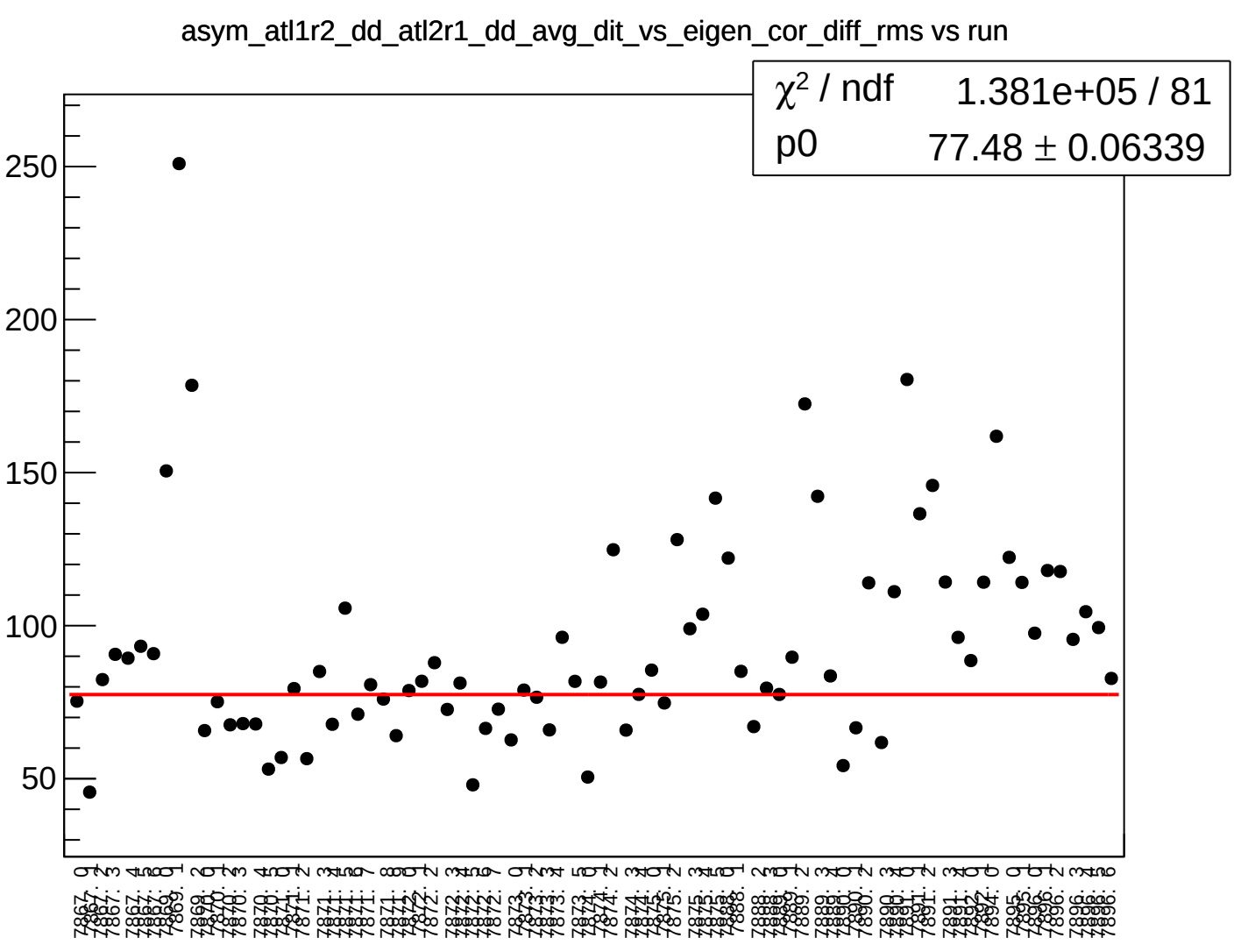

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.57 / 81
p0 2.245e−13 ± 2.279e−13
pull
Entries 82
Mean 10.43
Std Dev 0
pull1D
Entries 82
Mean 0.08732
Std Dev 0.8762

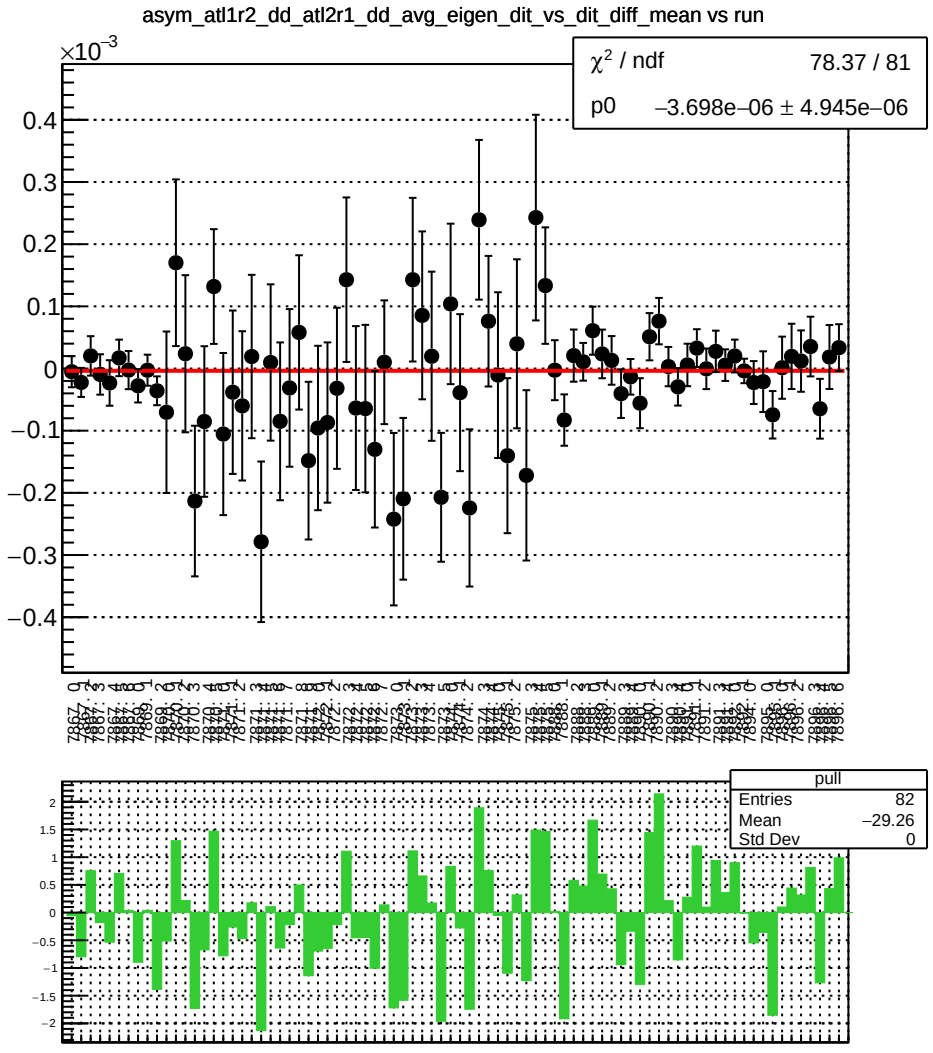

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 81
p0 1.093e−10 ± 1.611e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

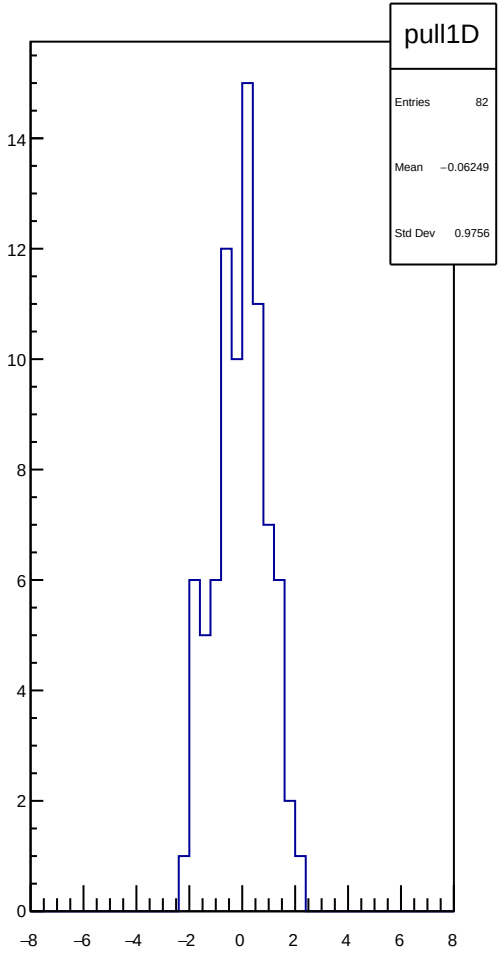

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.005748 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

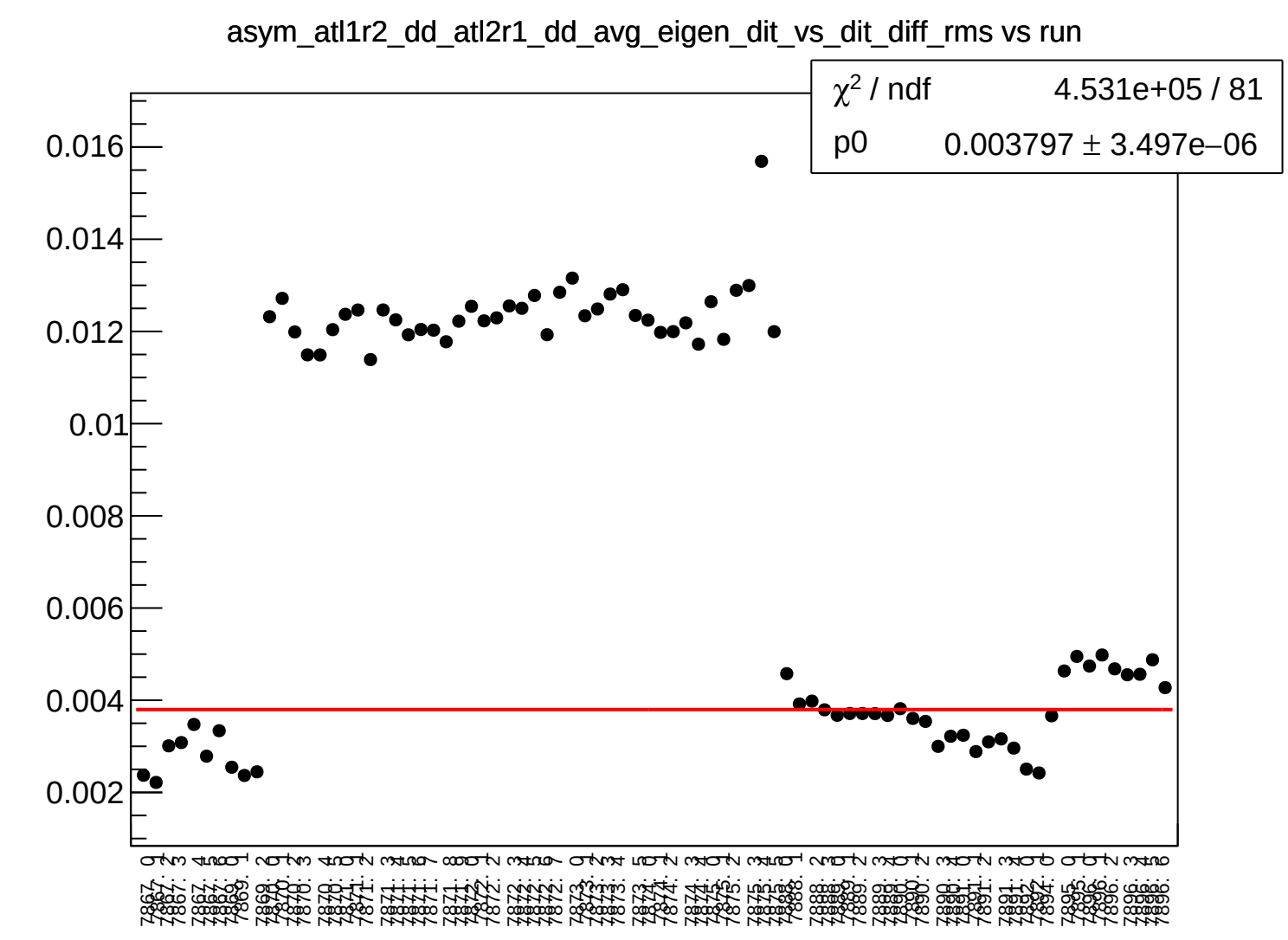

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

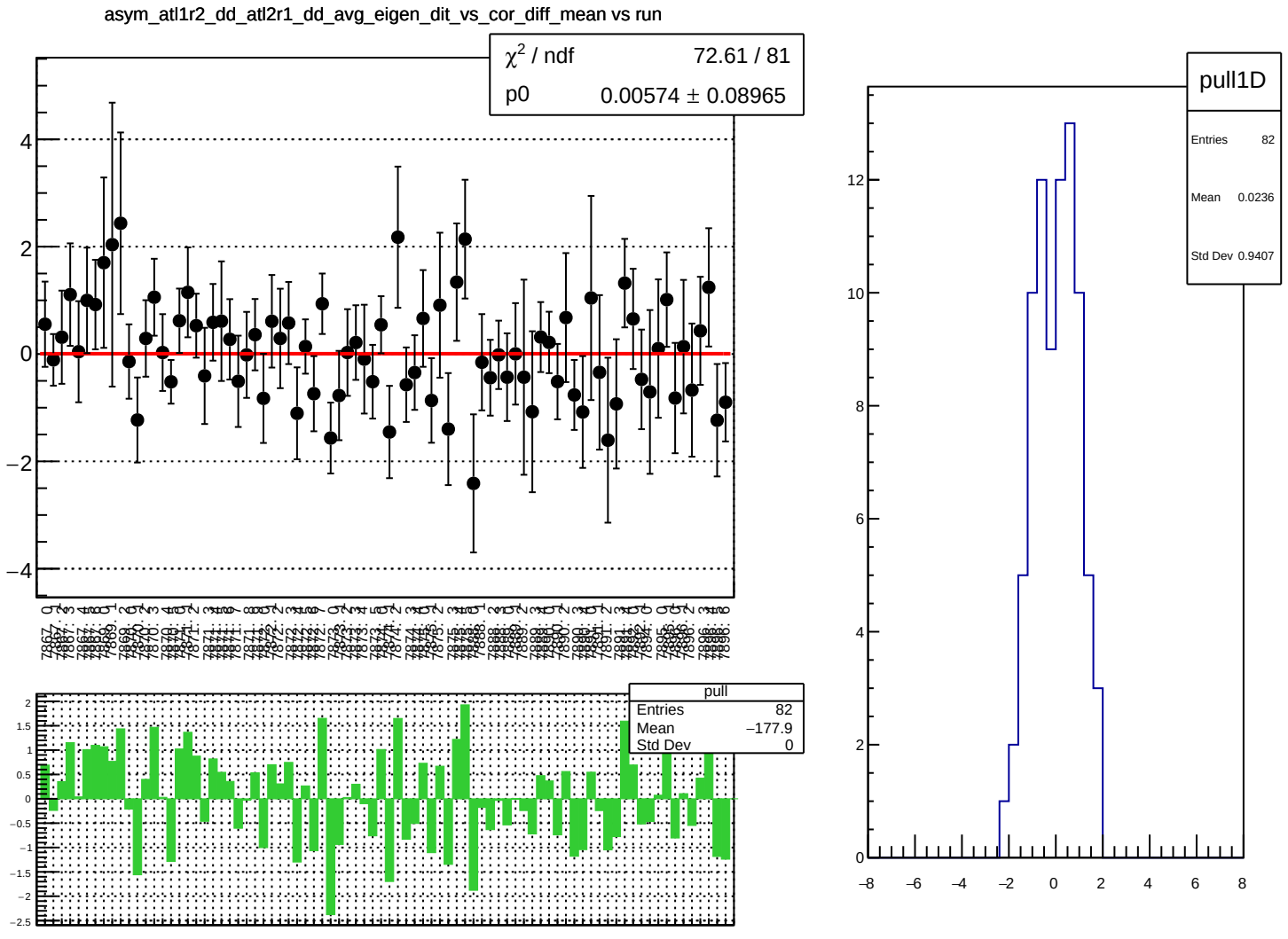

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.005748 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

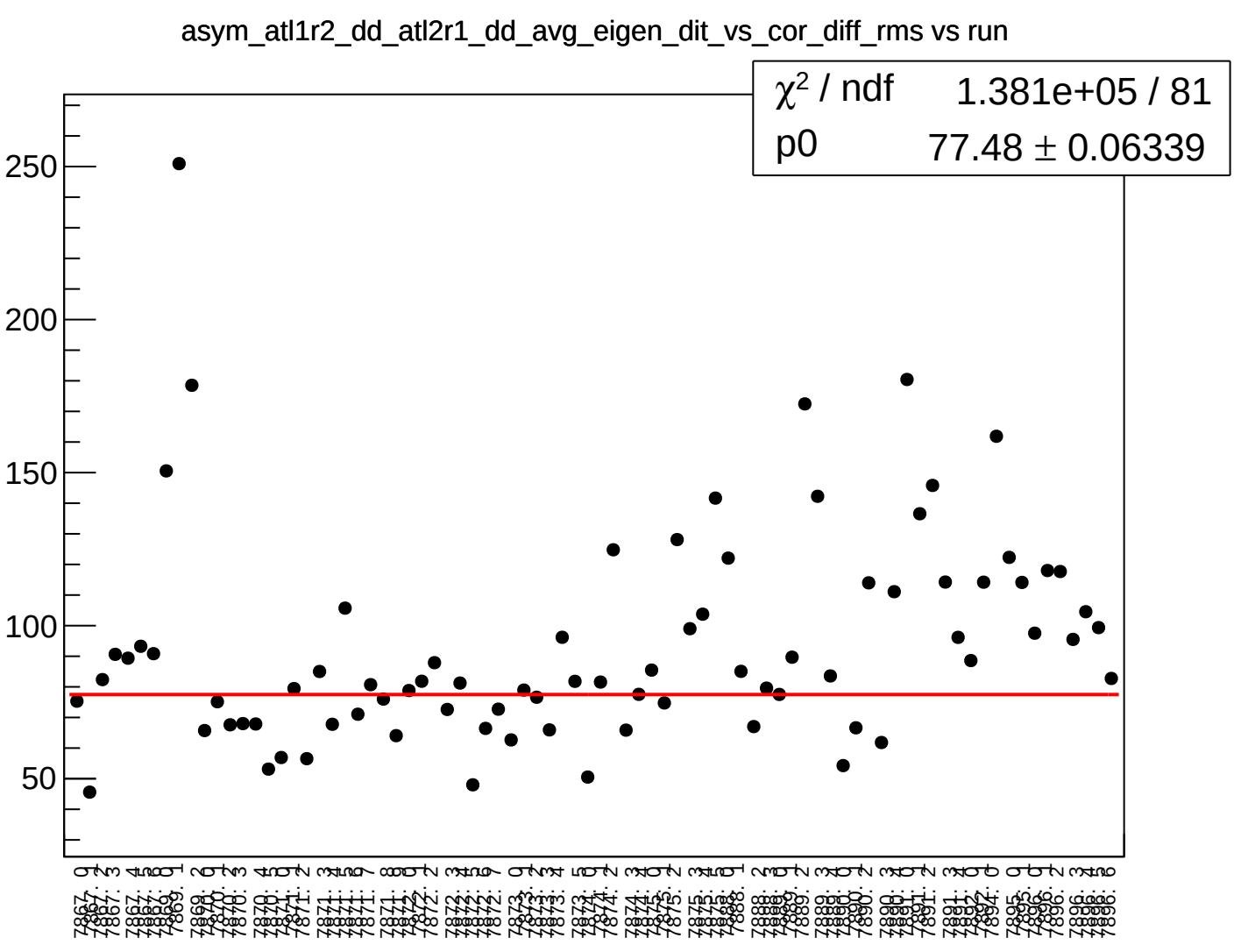

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

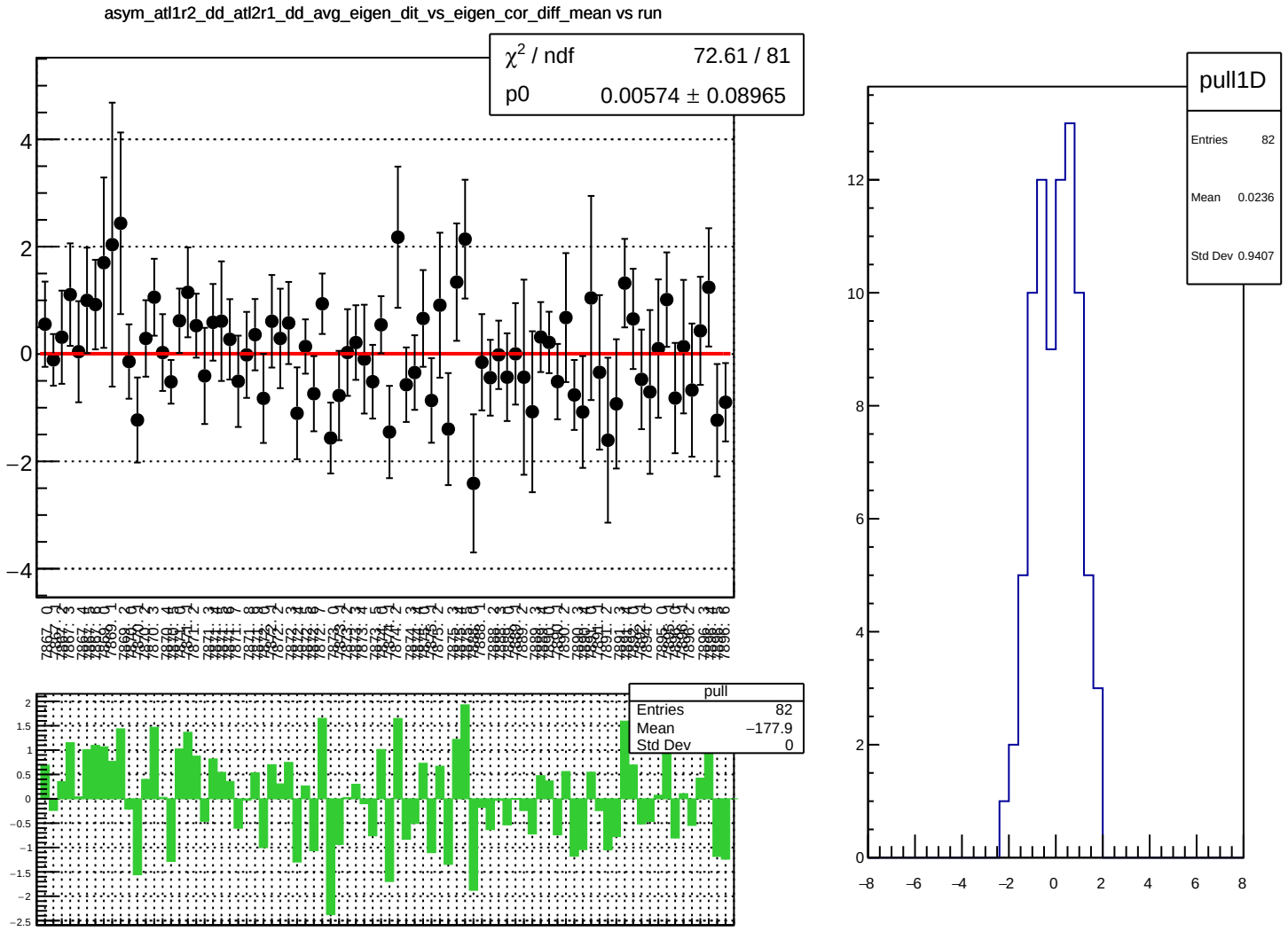

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.37 / 81
p0 −3.698e−06 ± 4.945e−06
pull
Entries 82
Mean −29.26
Std Dev 0

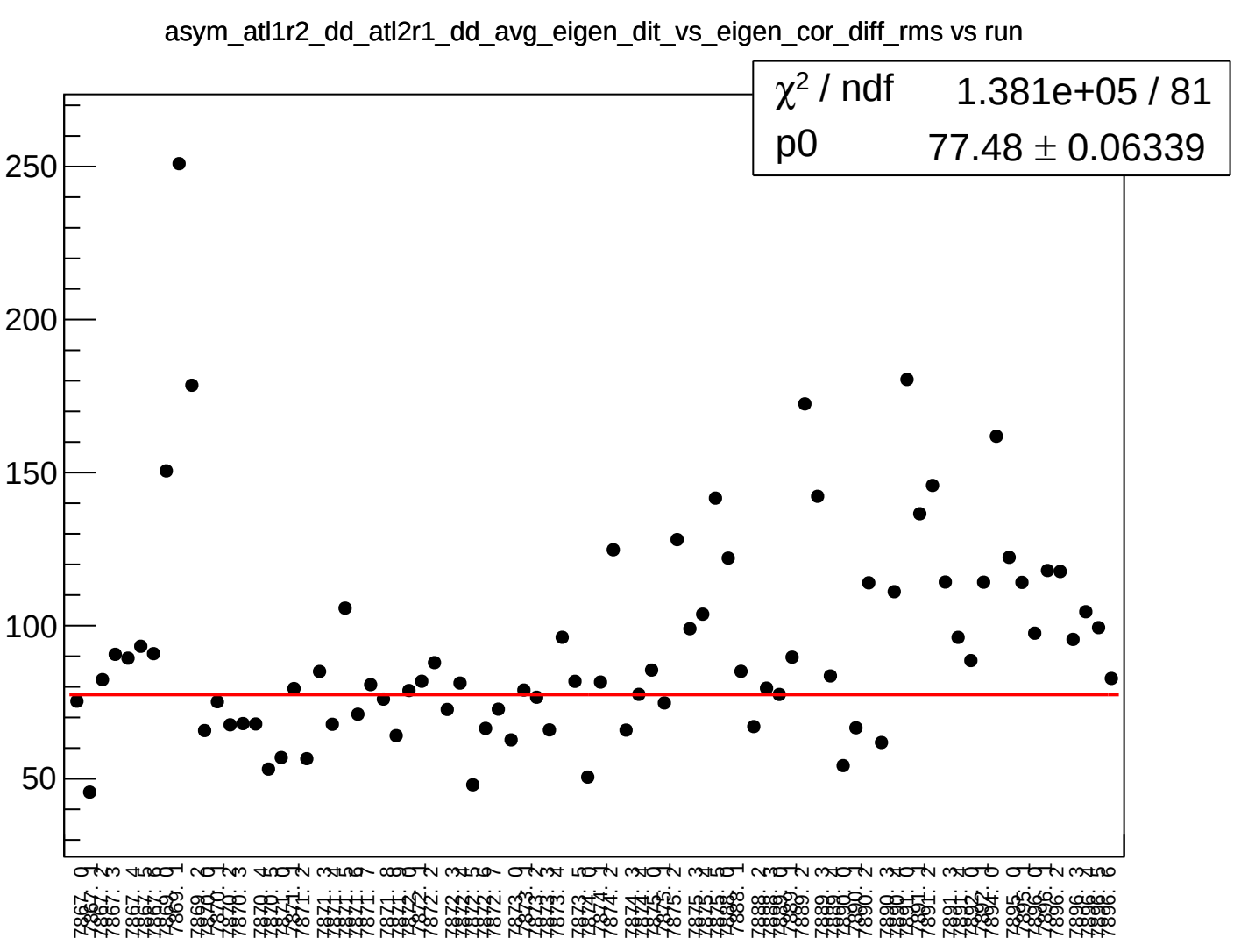

pull1D
Entries 82
Mean −0.06249
Std Dev 0.9756

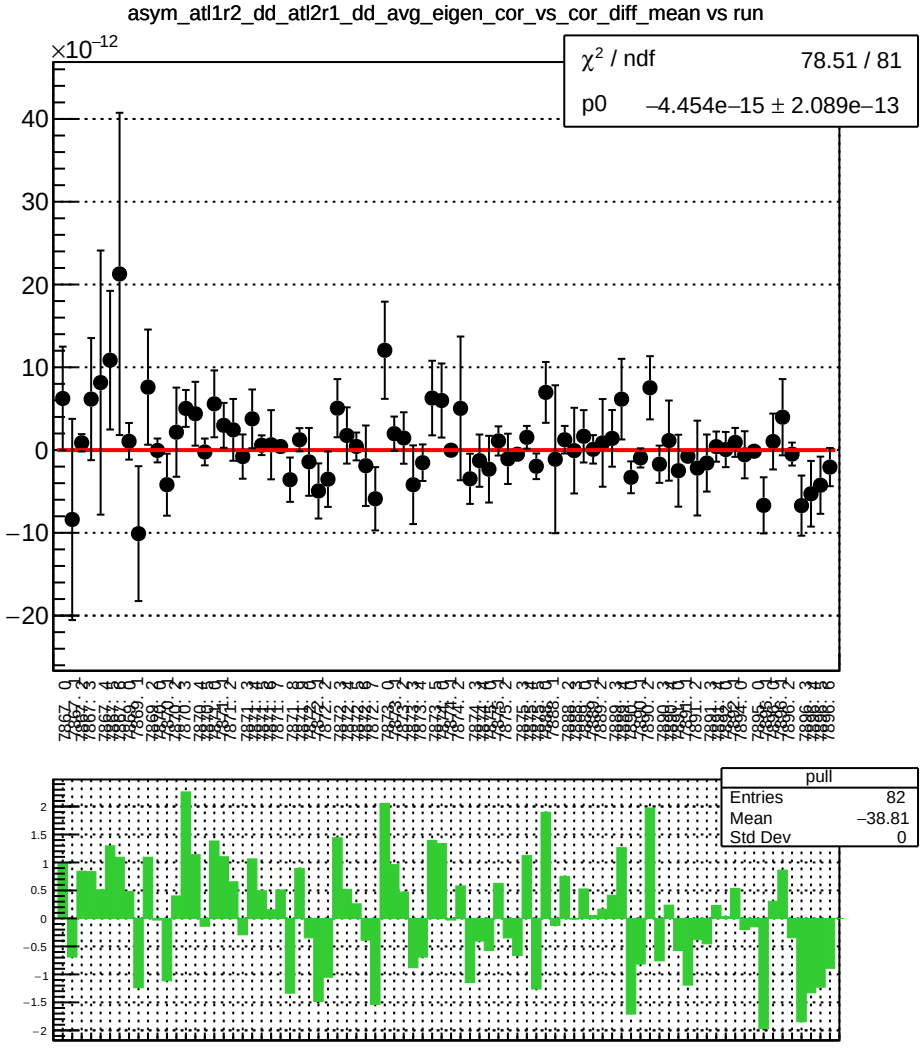

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.531e+05 / 81
p0 0.003797 ± 3.497e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

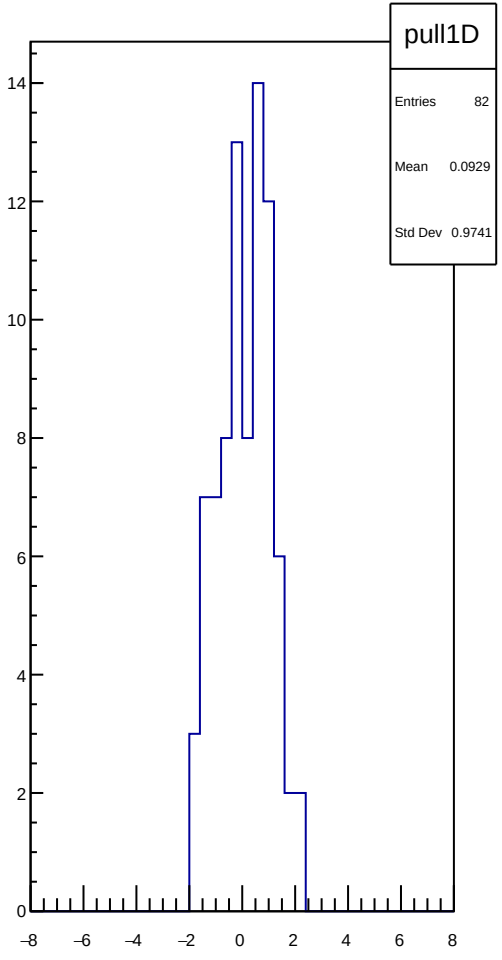

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.00574 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

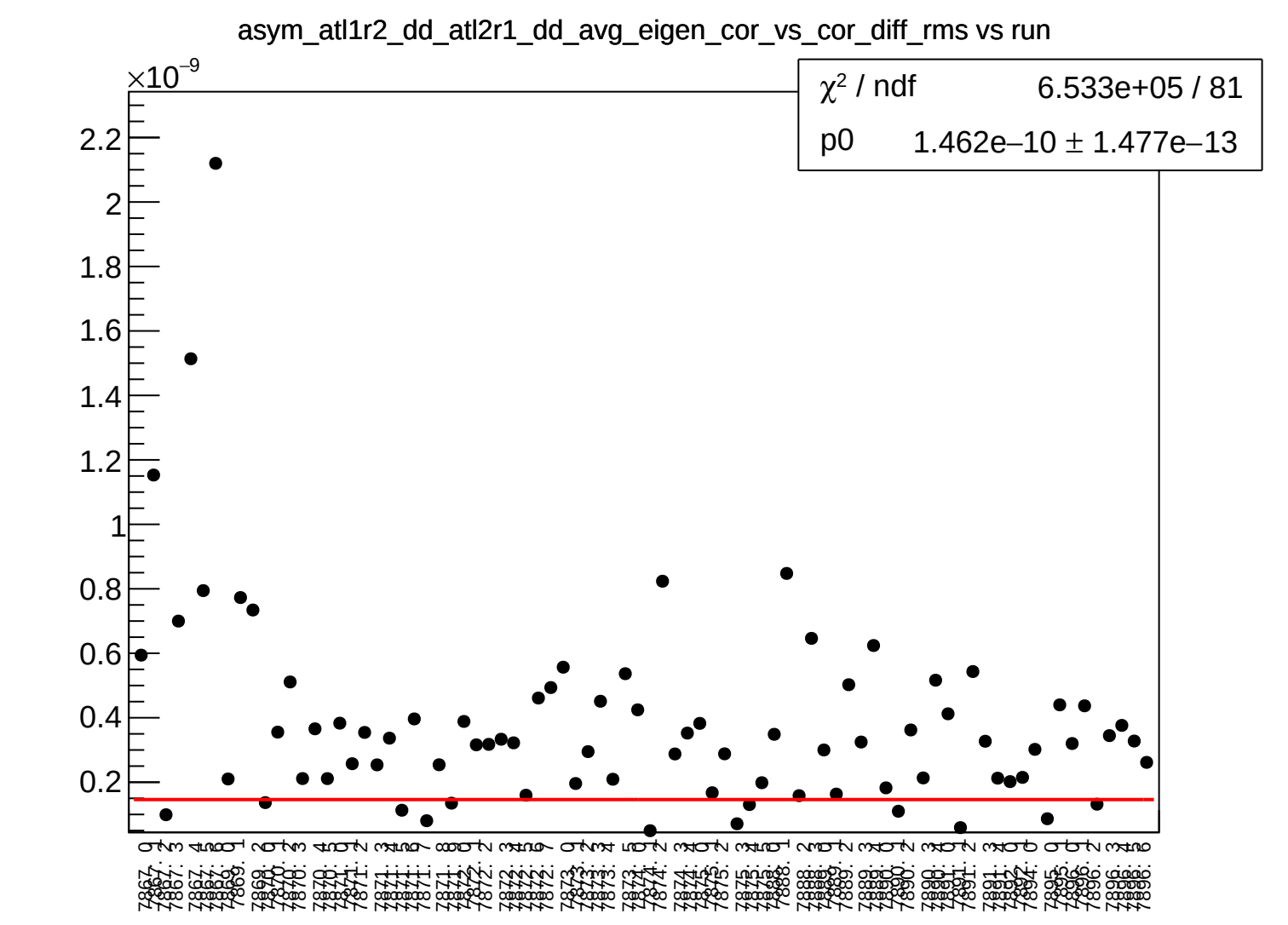

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

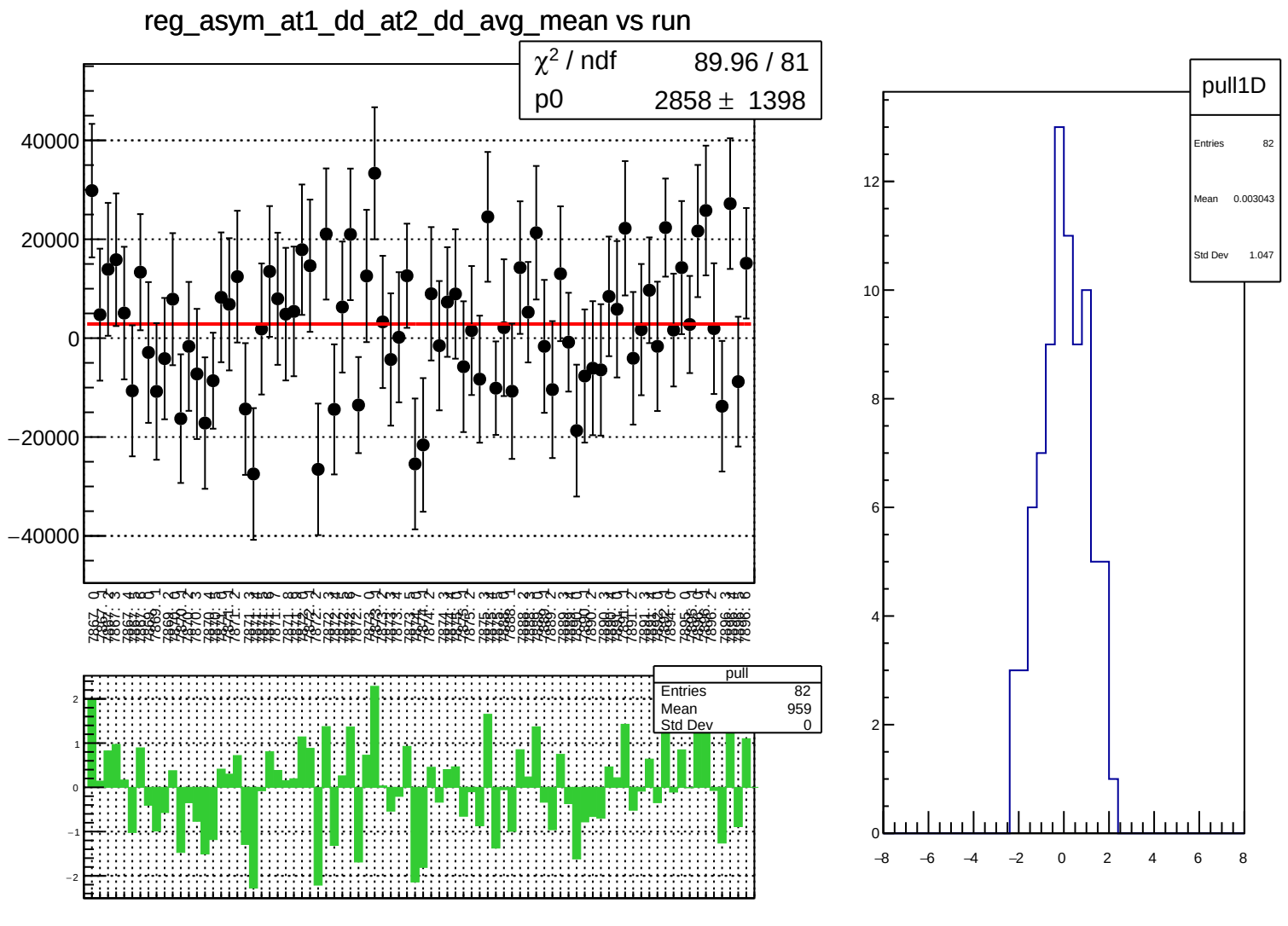

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.61 / 81
p0 0.00574 ± 0.08965
pull
Entries 82
Mean −177.9
Std Dev 0
pull1D
Entries 82
Mean 0.0236
Std Dev 0.9407

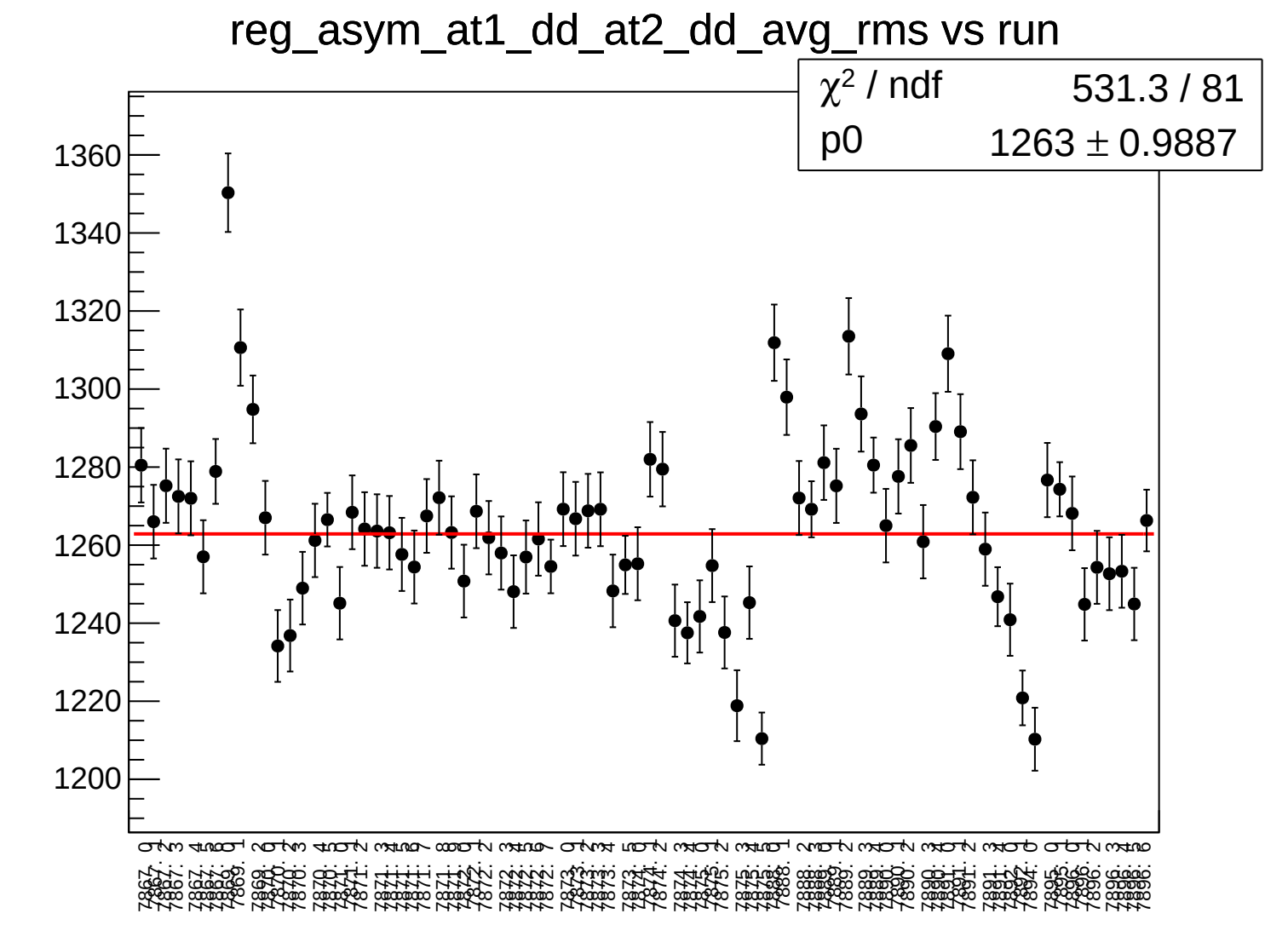

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 81
p0 77.48 ± 0.06339
250
200
150
100
50

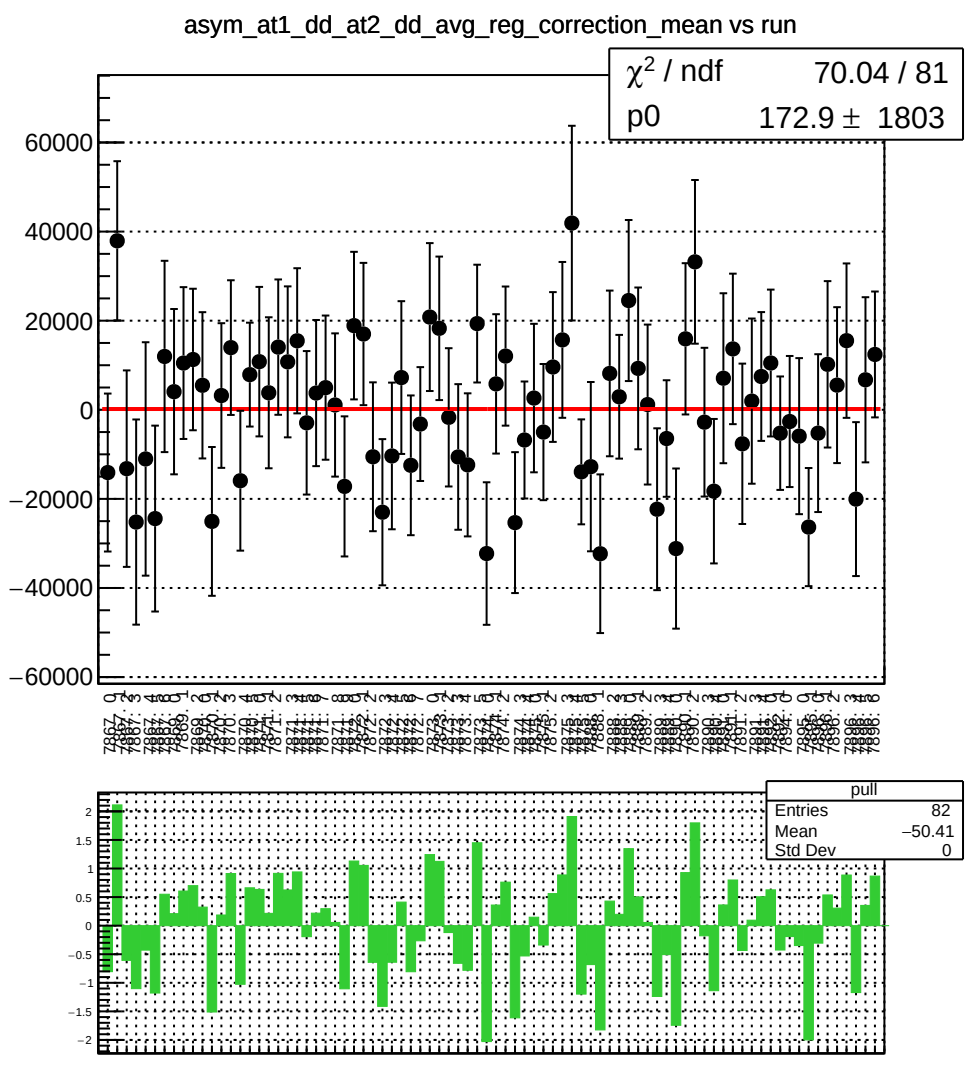

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.51 / 81
p0 −4.454e−15 ± 2.089e−13
pull
Entries 82
Mean −38.81
Std Dev 0

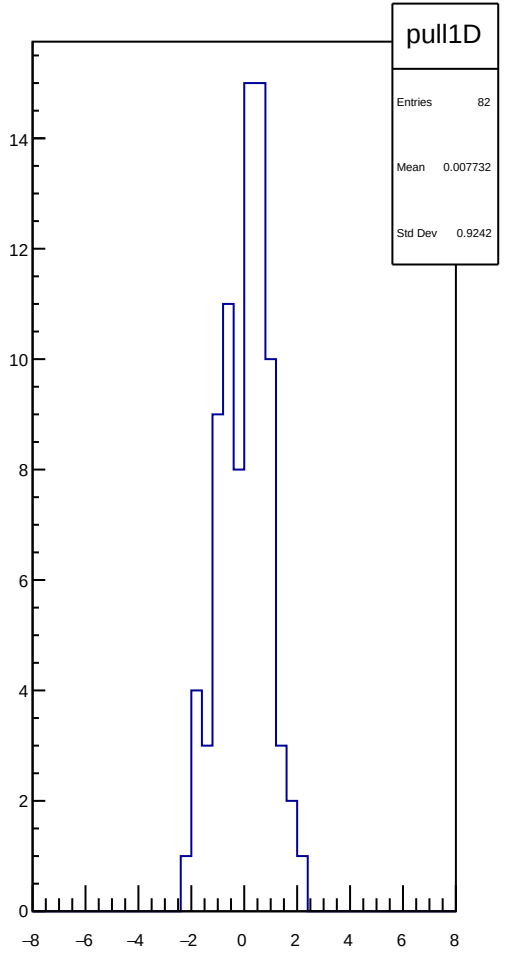

pull1D
Entries 82
Mean 0.0929
Std Dev 0.9741

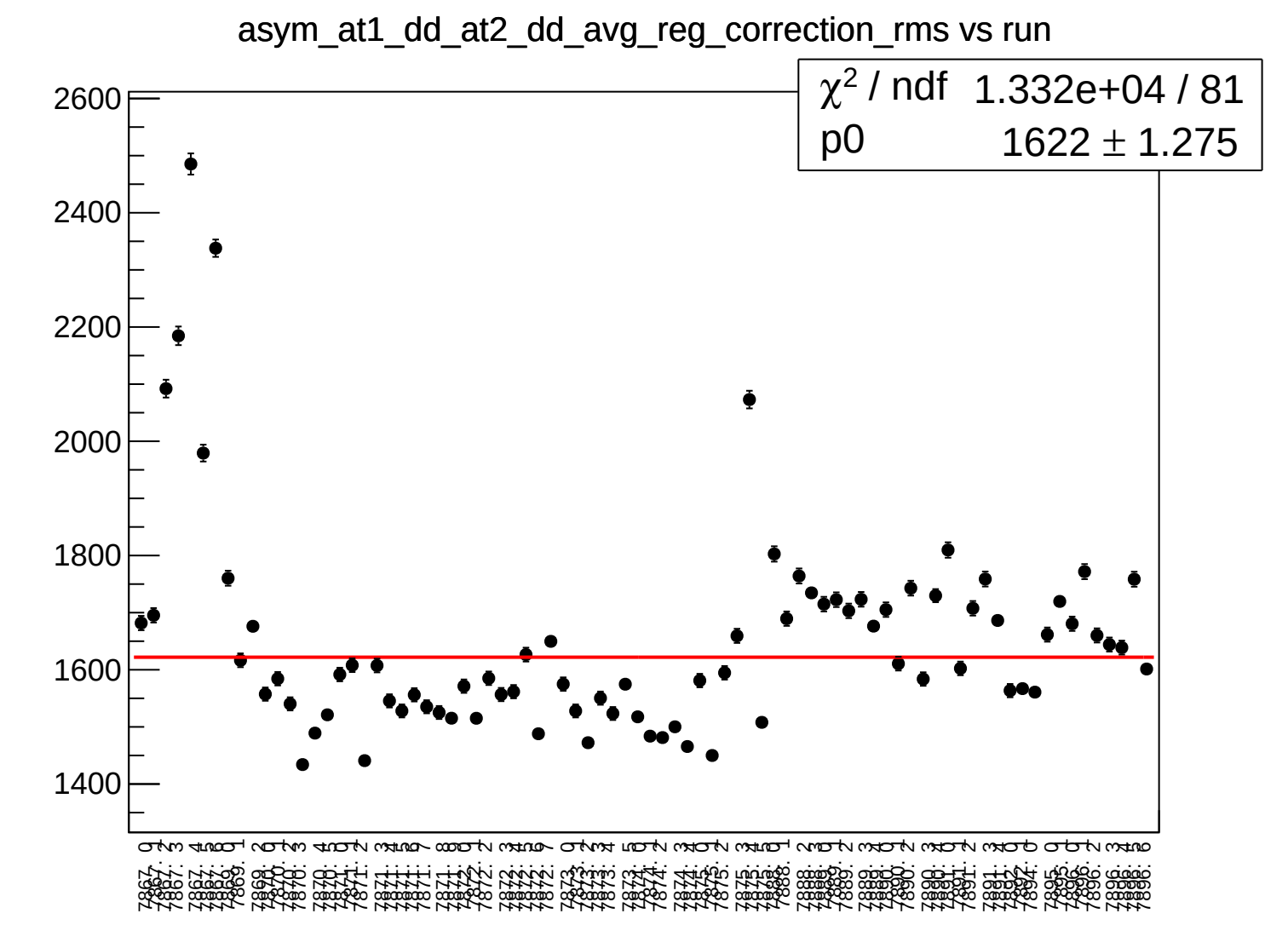

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.533e+05 / 81
p0 1.462e−10 ± 1.477e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

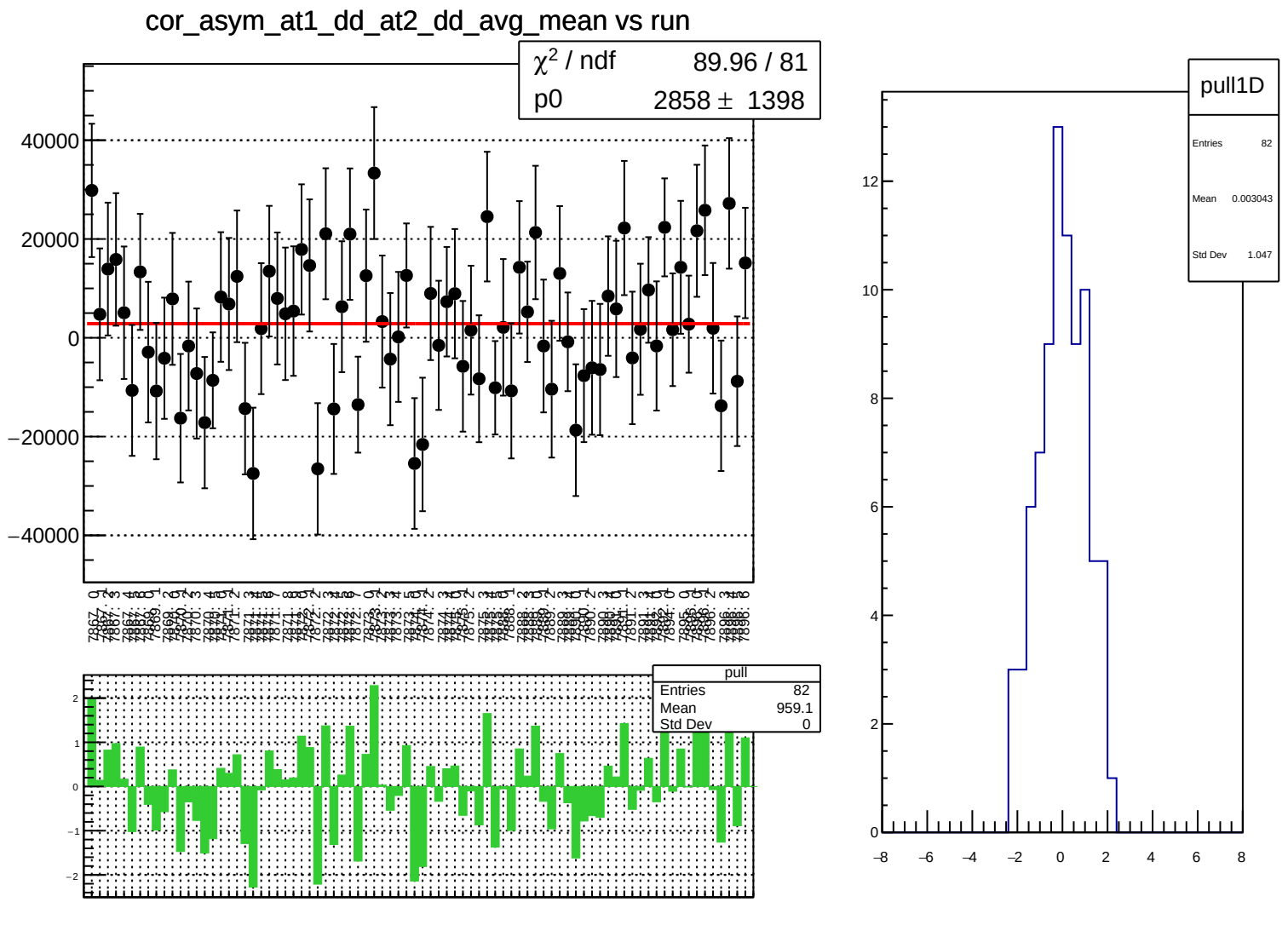

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.96 / 81
p0 2858 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003043
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

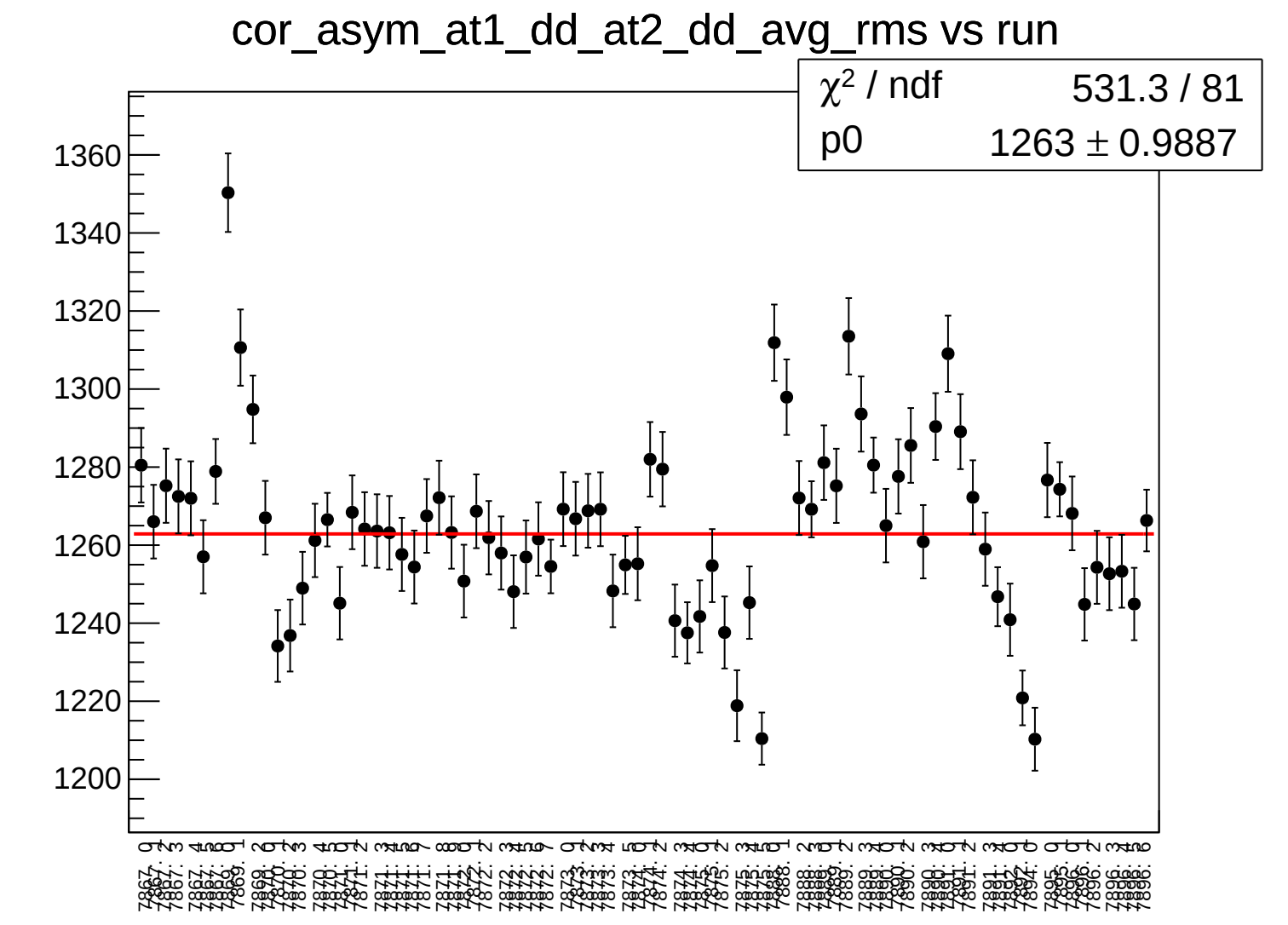

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 531.3 / 81
p0 1263 ± 0.9887
1360
1340
1320
1300
1280
1260
1240
1220
1200

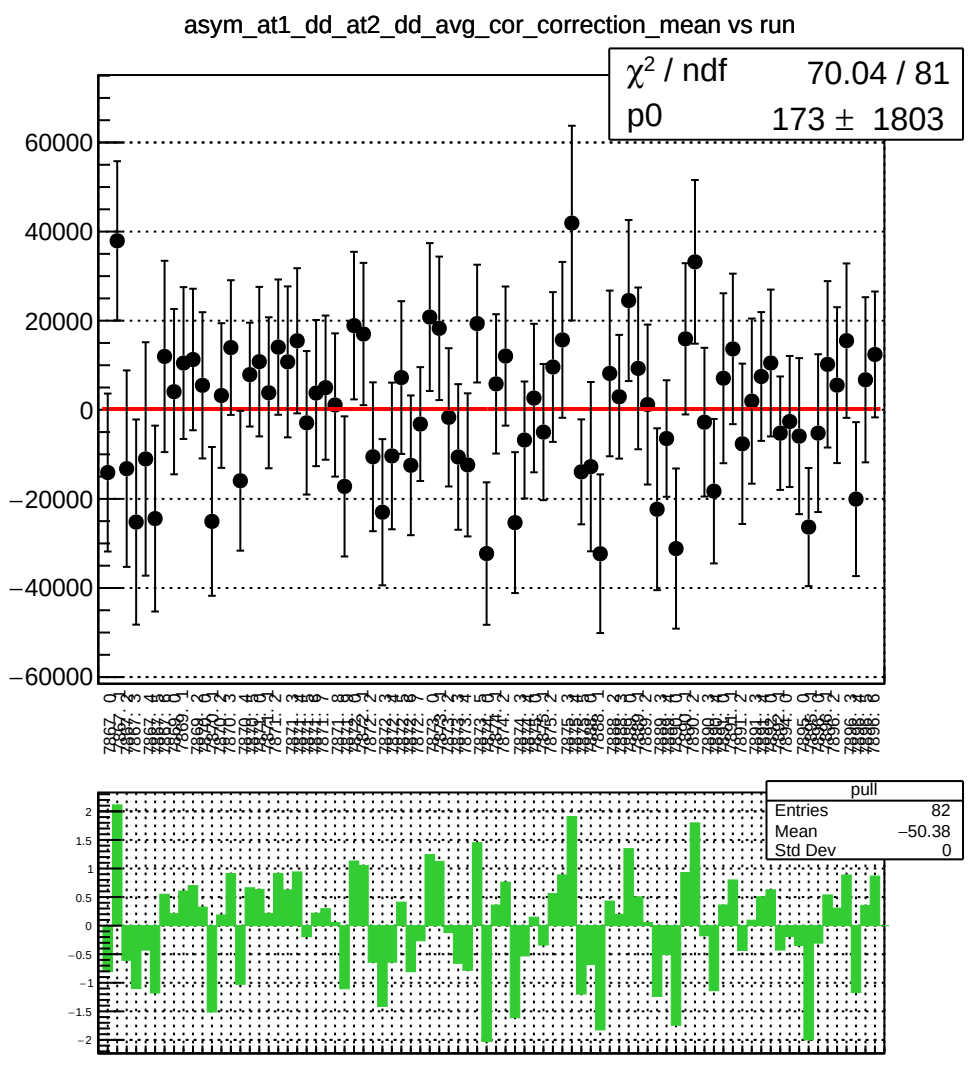

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 70.04 / 81
p0 172.9 ± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −50.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

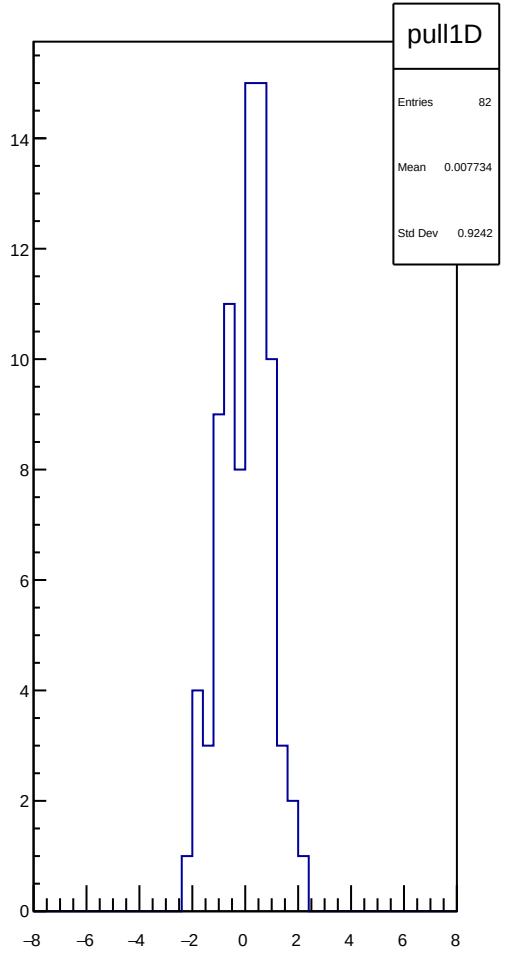

pull1D
Entries 82
Mean 0.007732
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

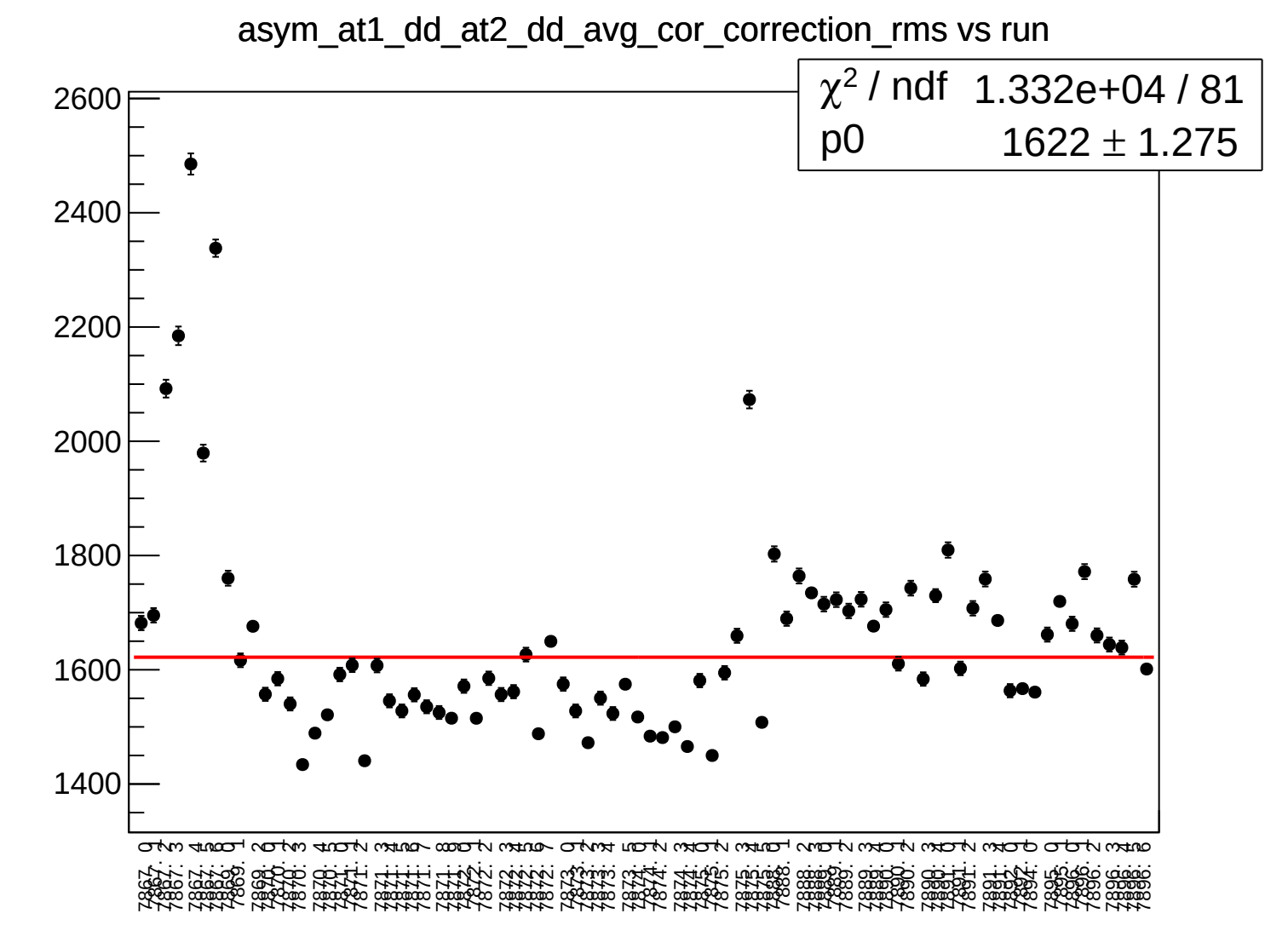

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.332e+04 / 81
p0 1622 ± 1.275
2600
2400
2200
2000
1800
1600
1400

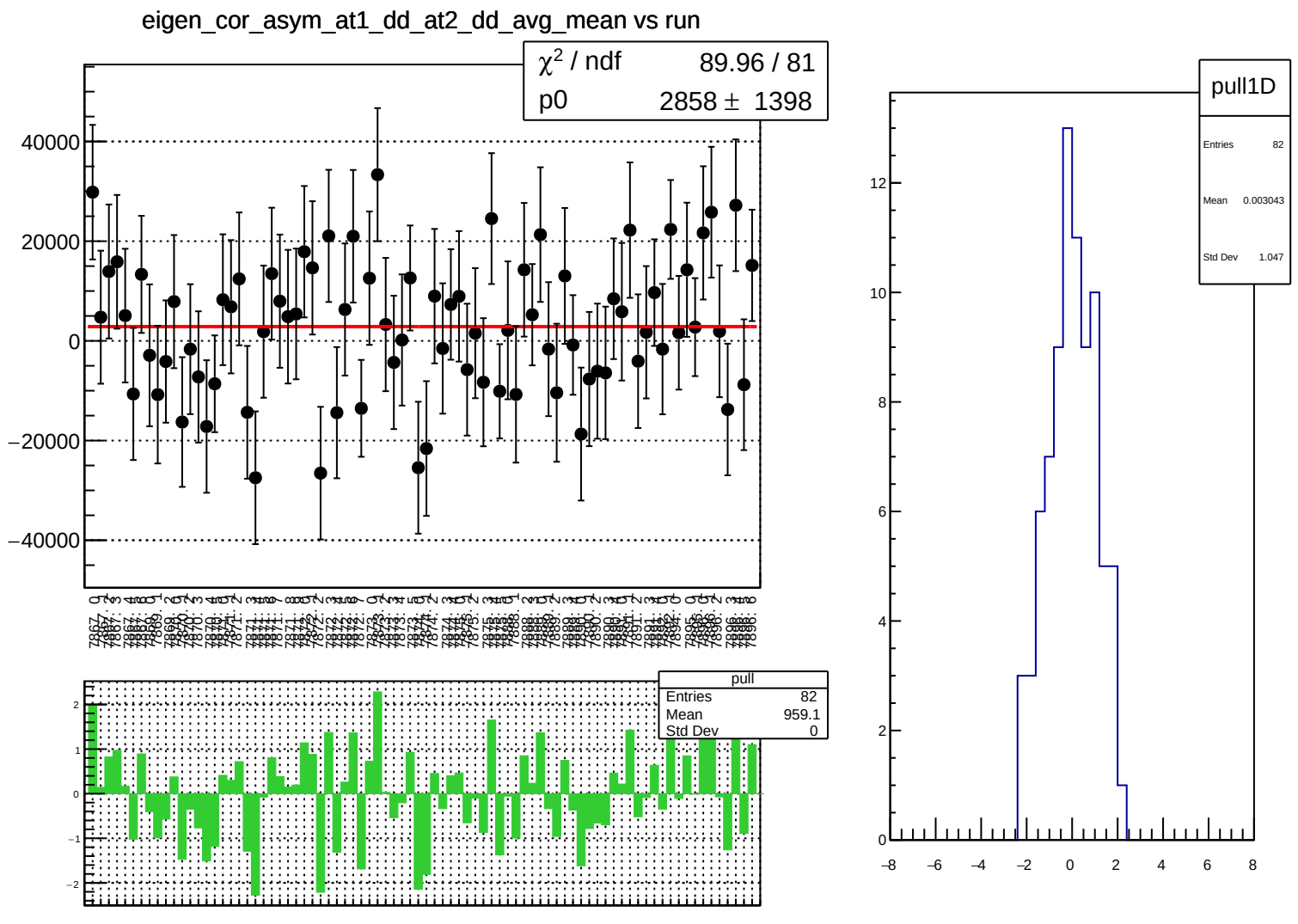

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.96 / 81
p0 2858 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003043
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

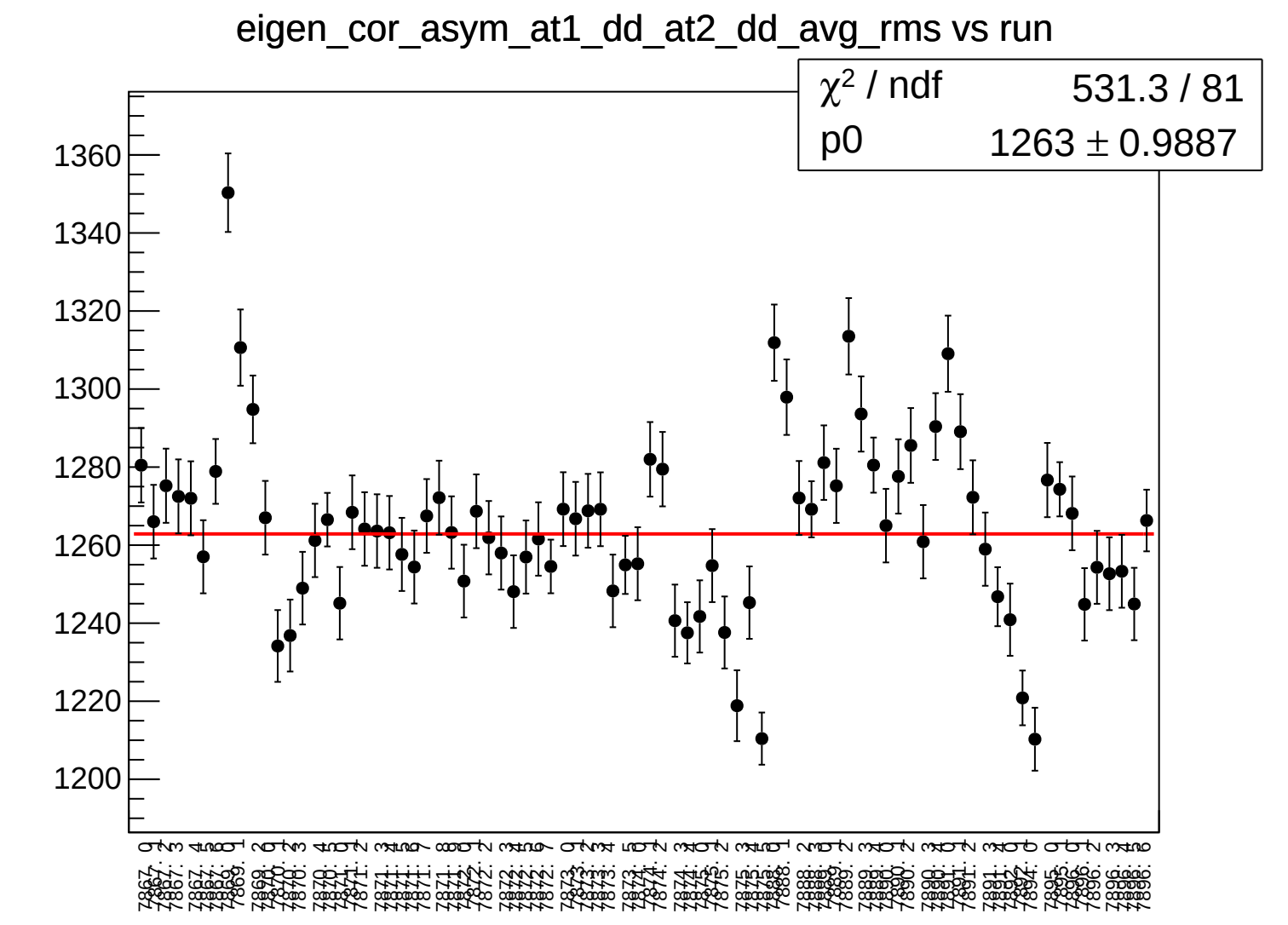

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 531.3 / 81
p0 1263 ± 0.9887
1360
1340
1320
1300
1280
1260
1240
1220
1200

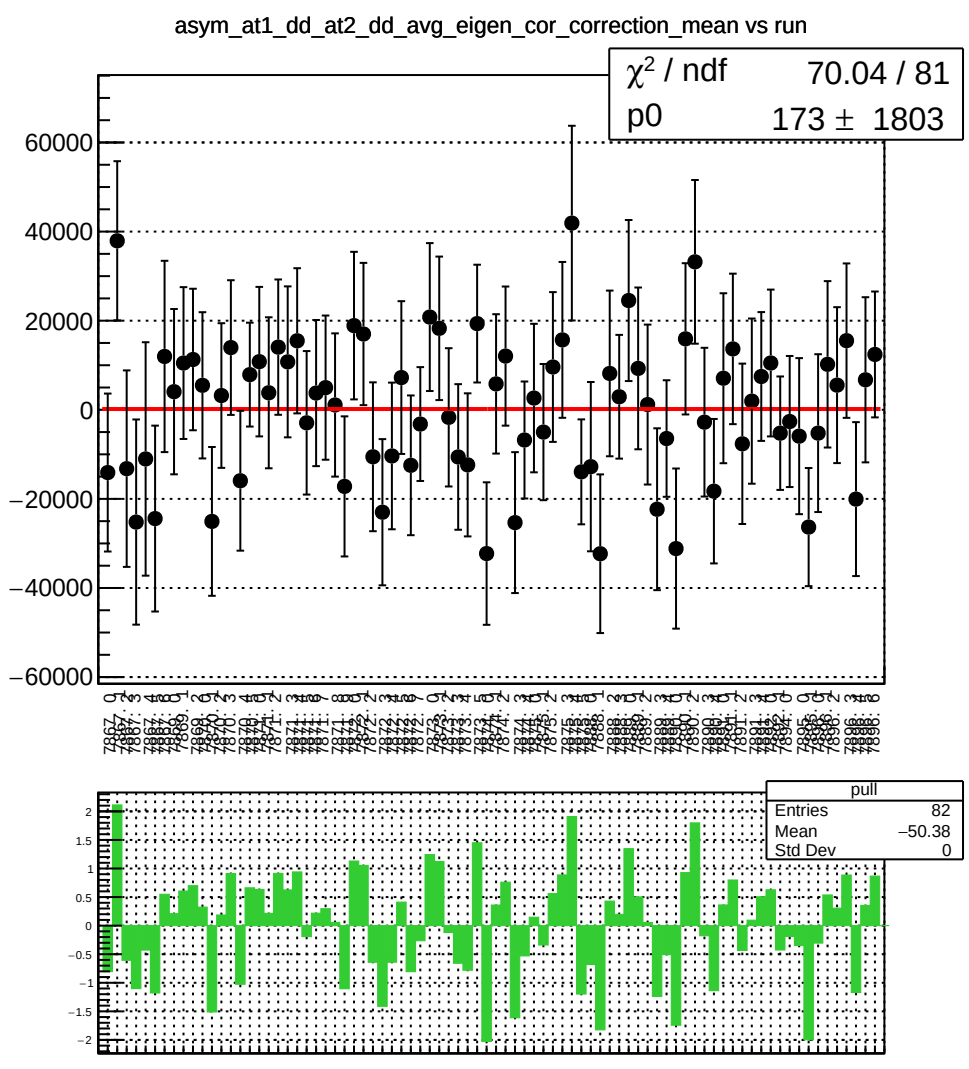

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 70.04 / 81
p0 173 ± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −50.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

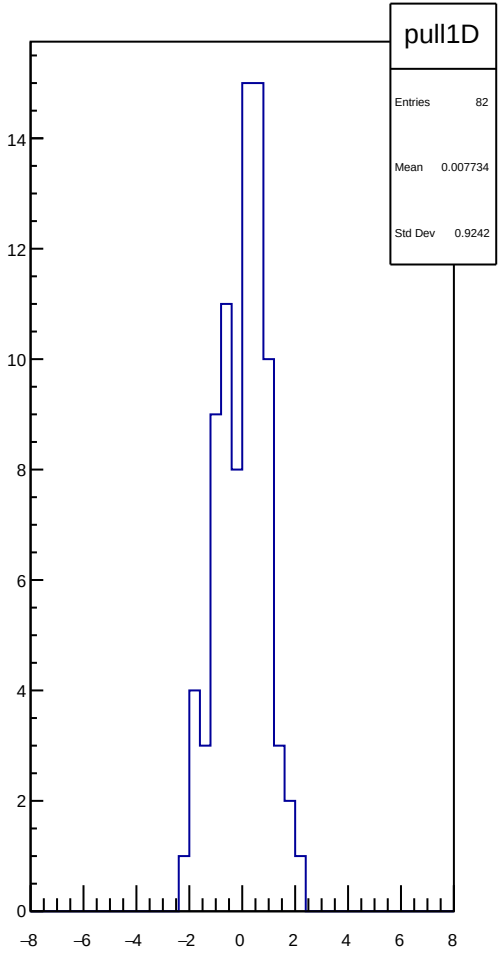

pull1D
Entries 82
Mean 0.007734
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

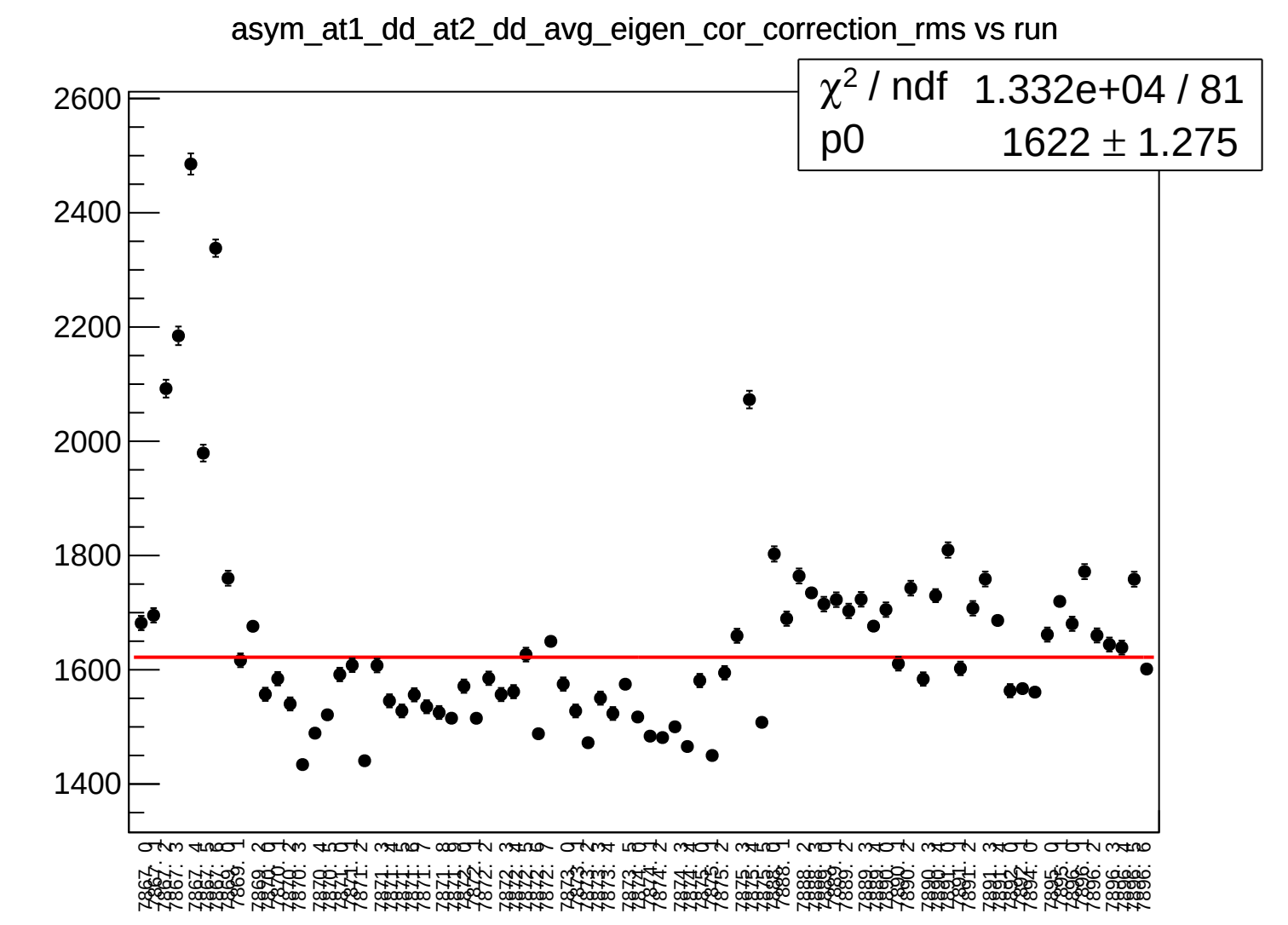

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.332e+04 / 81
p0 1622 ± 1.275
2600
2400
2200
2000
1800
1600
1400

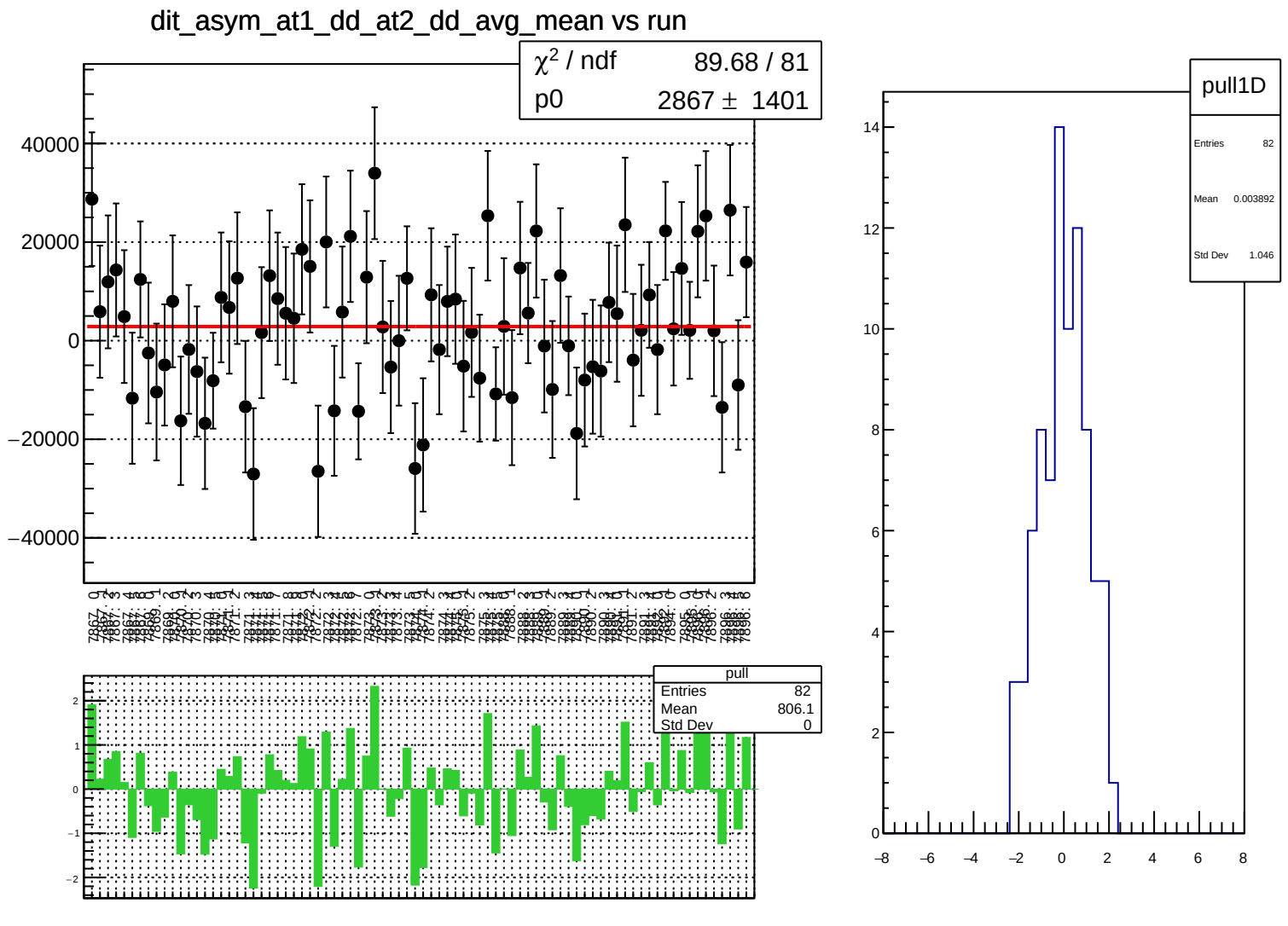

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.96 / 81
p0 2858 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 959.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003043
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

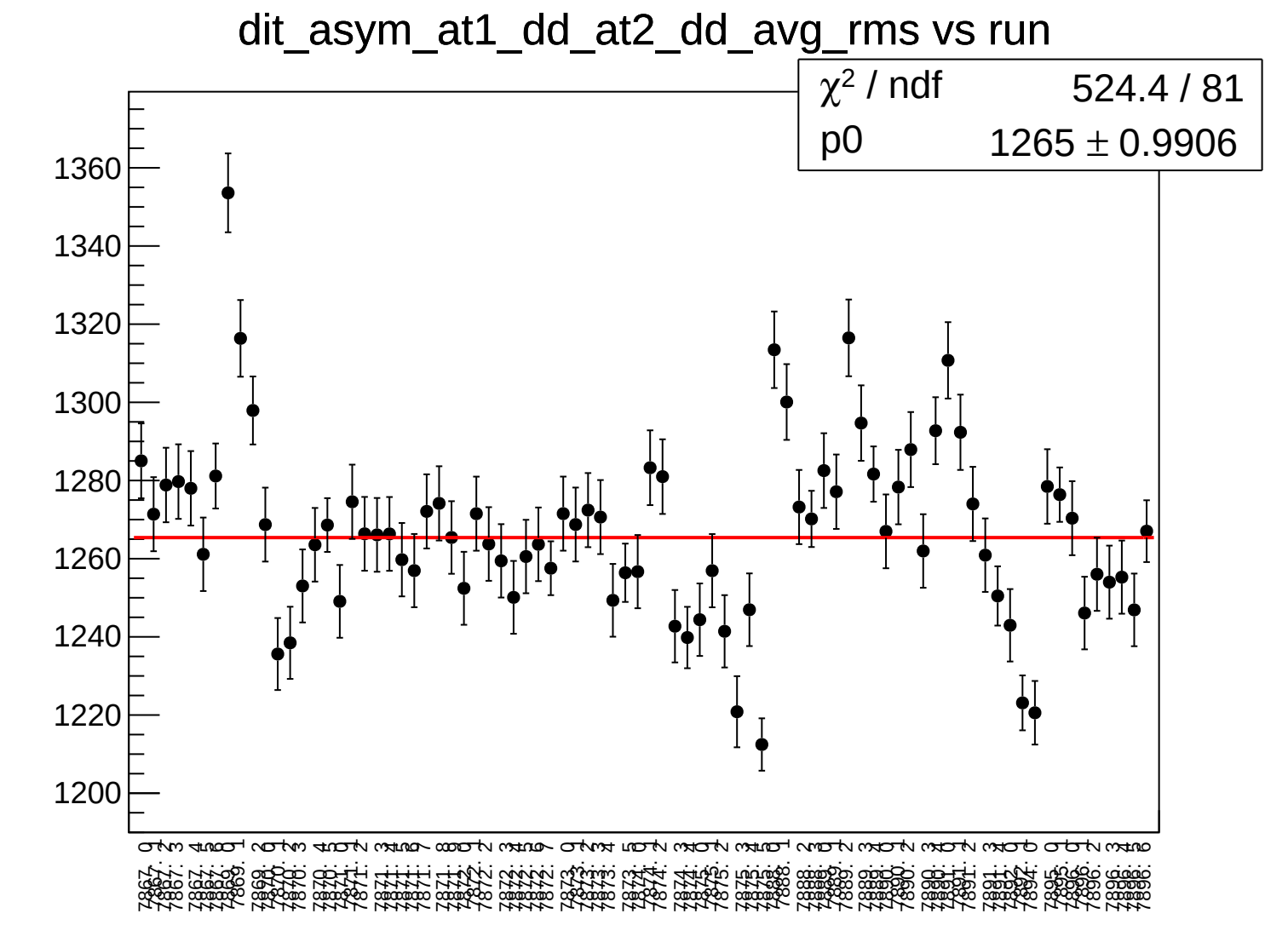

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 531.3 / 81
p0 1263 ± 0.9887
1360
1340
1320
1300
1280
1260
1240
1220
1200

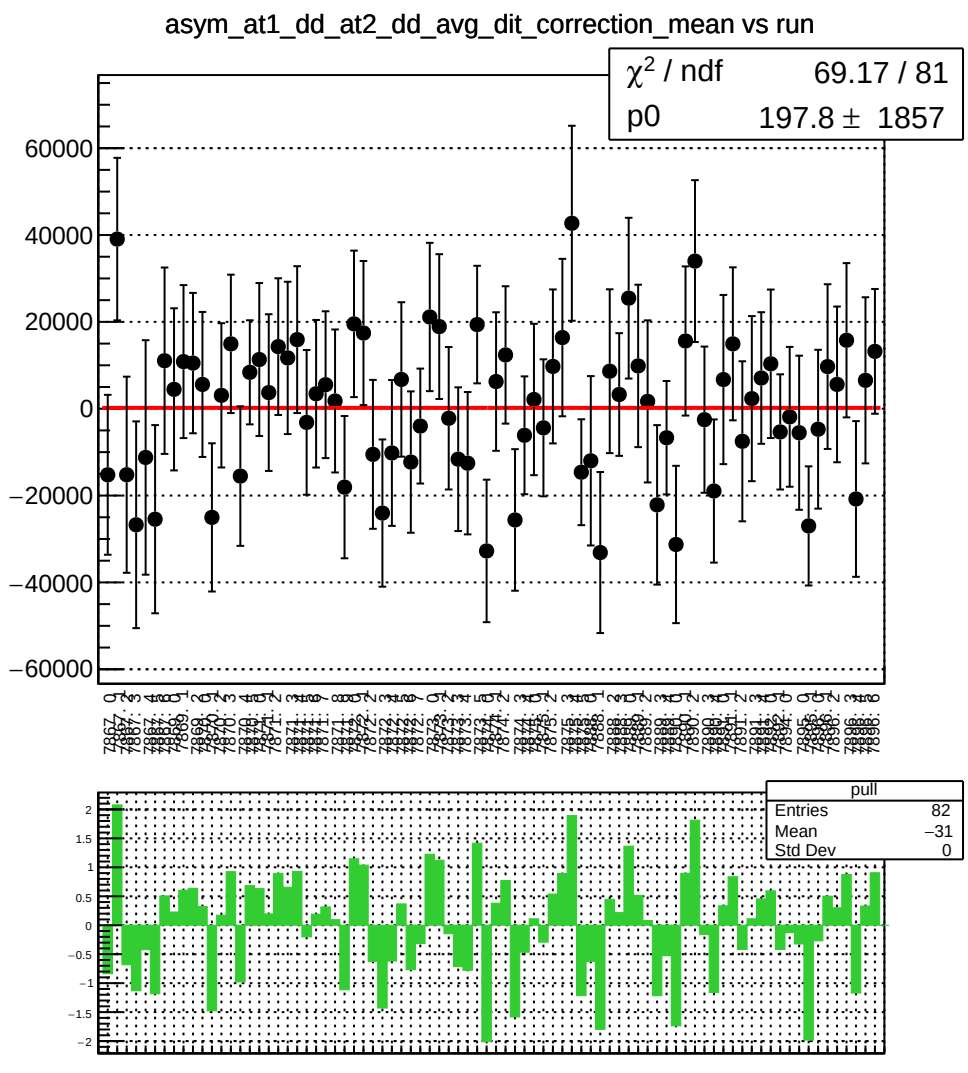

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.04 / 81
p0 173 ± 1803
pull
Entries 82
Mean −50.38
Std Dev 0

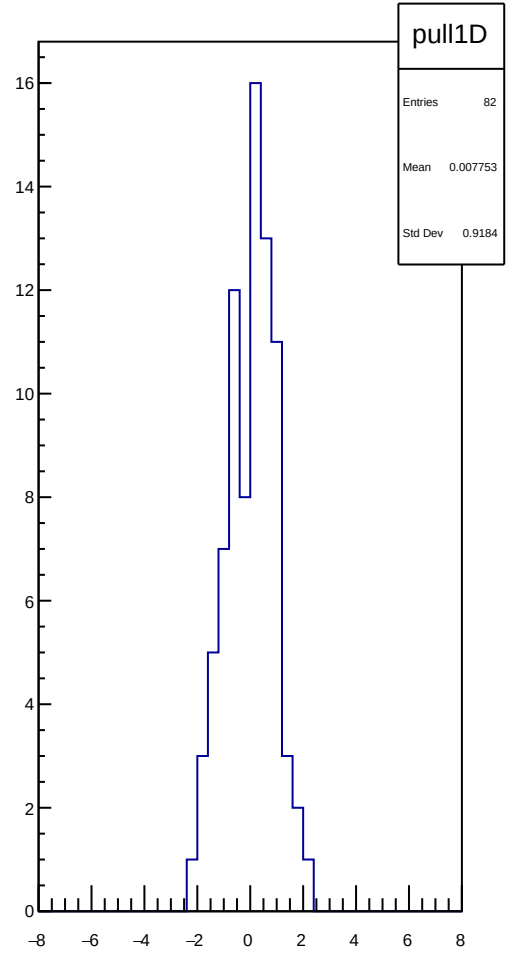

pull1D
Entries 82
Mean 0.007734
Std Dev 0.9242

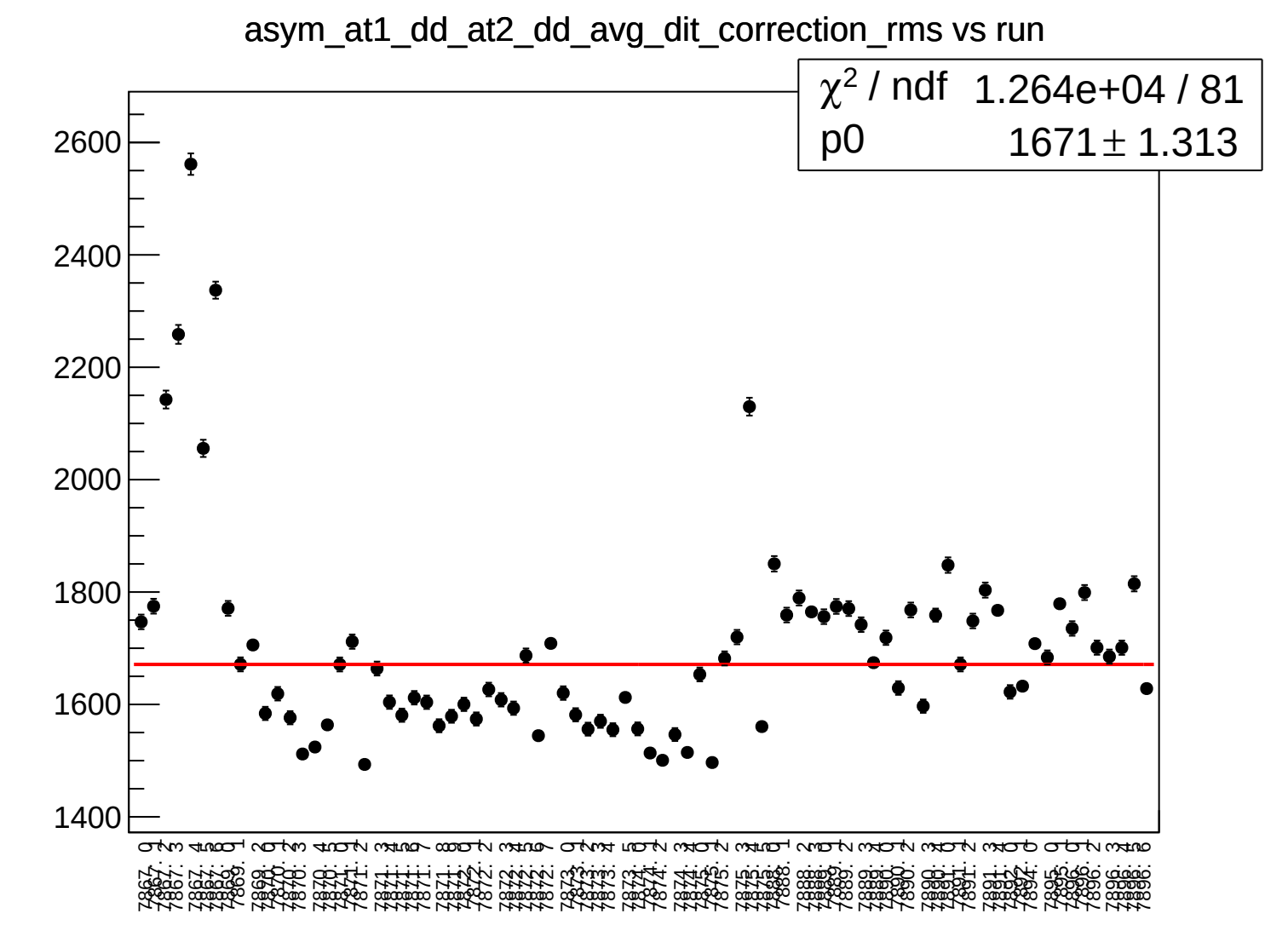

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.332e+04 / 81
p0 1622 ± 1.275
2600
2400
2200
2000
1800
1600
1400

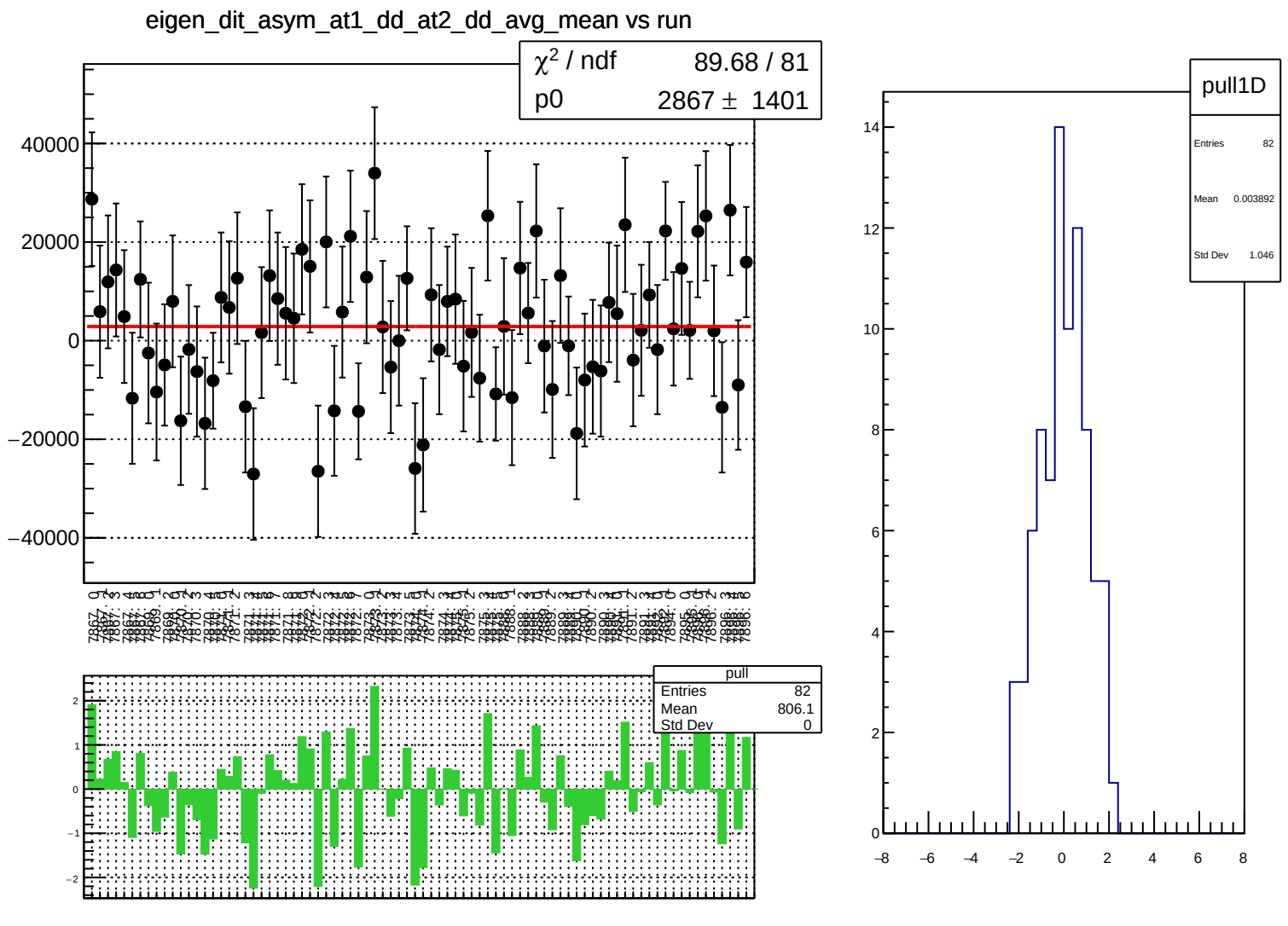

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.68 / 81
p0 2867 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 806.1
Std Dev 0
pull1D
Entries 82
Mean 0.003892
Std Dev 1.046

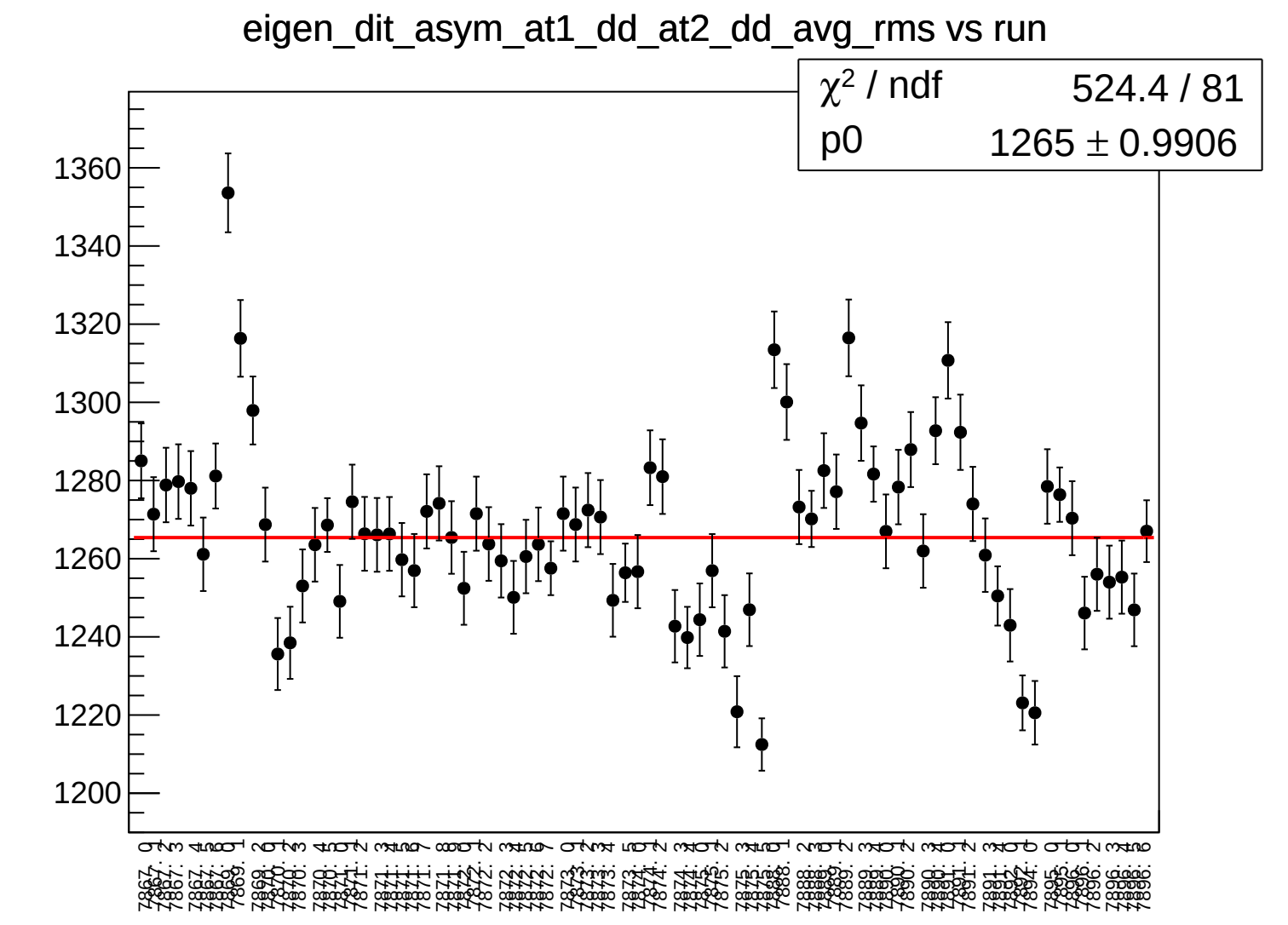

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 524.4 / 81
p0 1265 ± 0.9906
1360
1340
1320
1300
1280
1260
1240
1220
1200

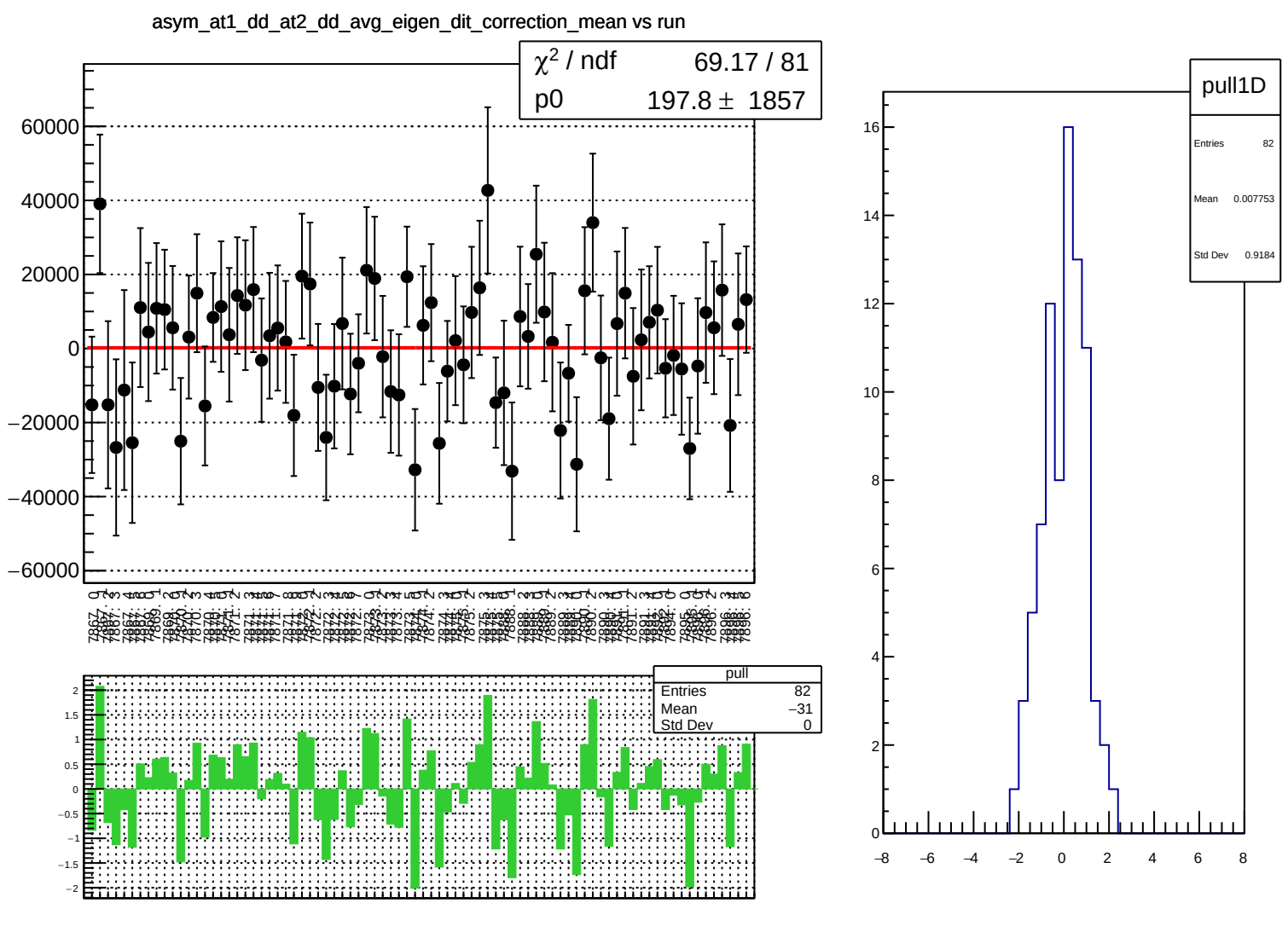

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 69.17 / 81
p0 197.8 ± 1857
pull
Entries 82
Mean −31
Std Dev 0

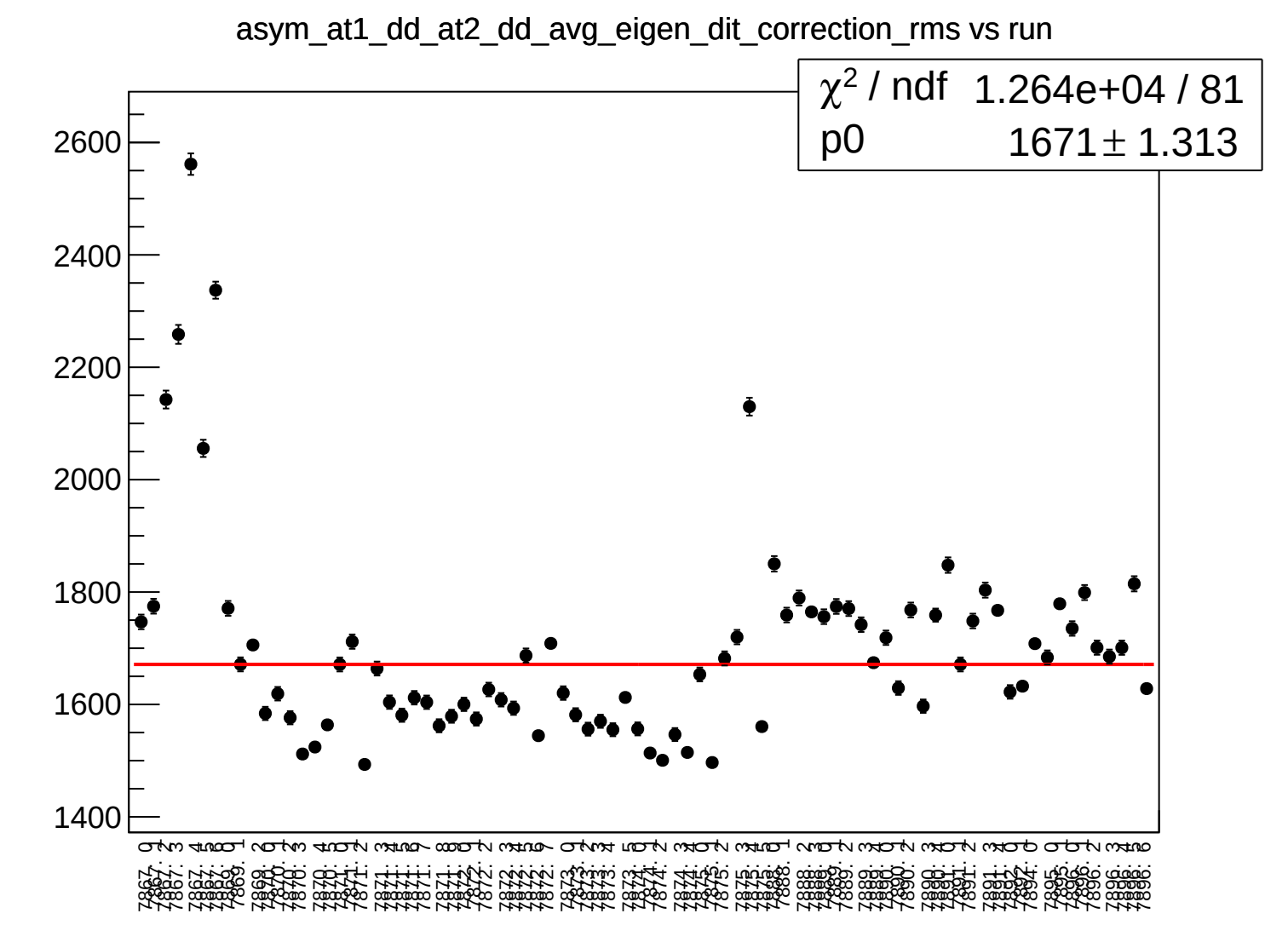

pull1D
Entries 82
Mean 0.007753
Std Dev 0.9184

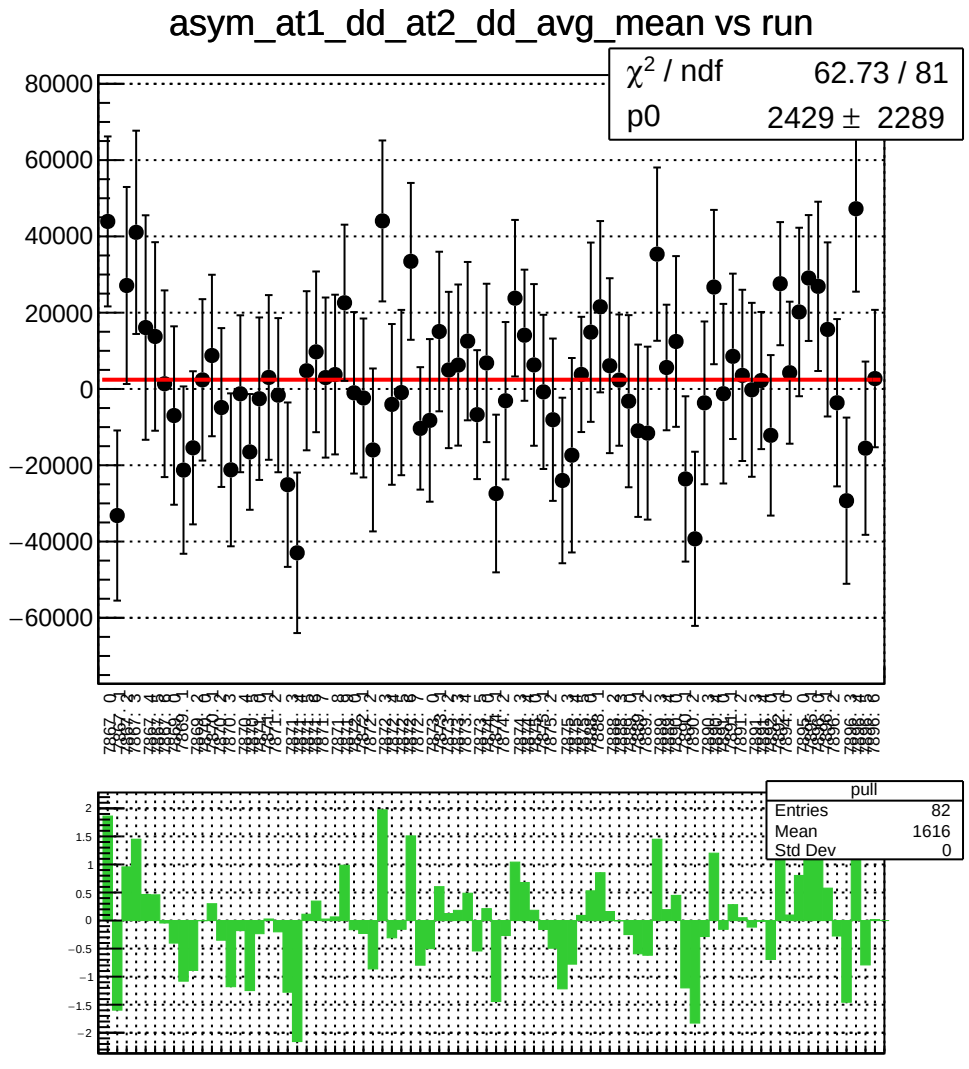

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.264e+04 / 81
p0 1671 ± 1.313
2600
2400
2200
2000
1800
1600
1400

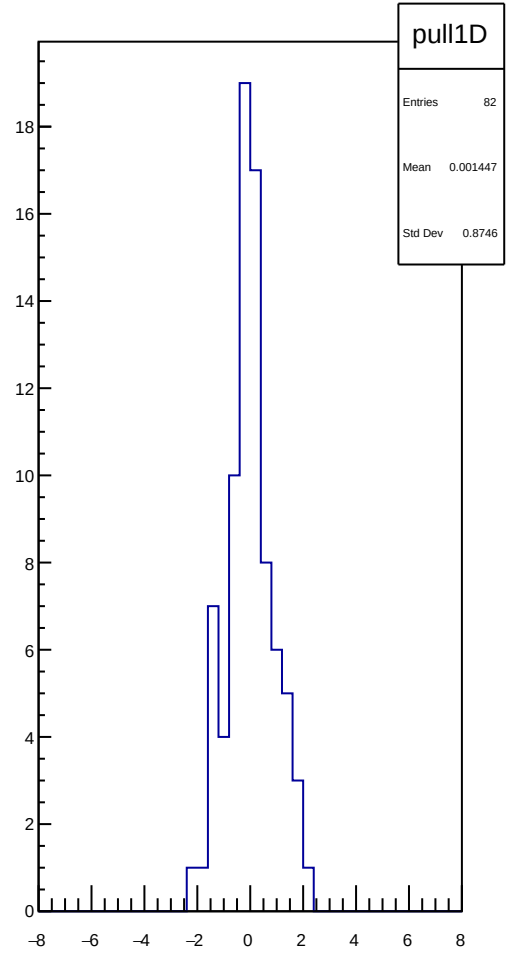

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.68 / 81
p0 2867 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 806.1
Std Dev 0
pull1D
Entries 82
Mean 0.003892
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

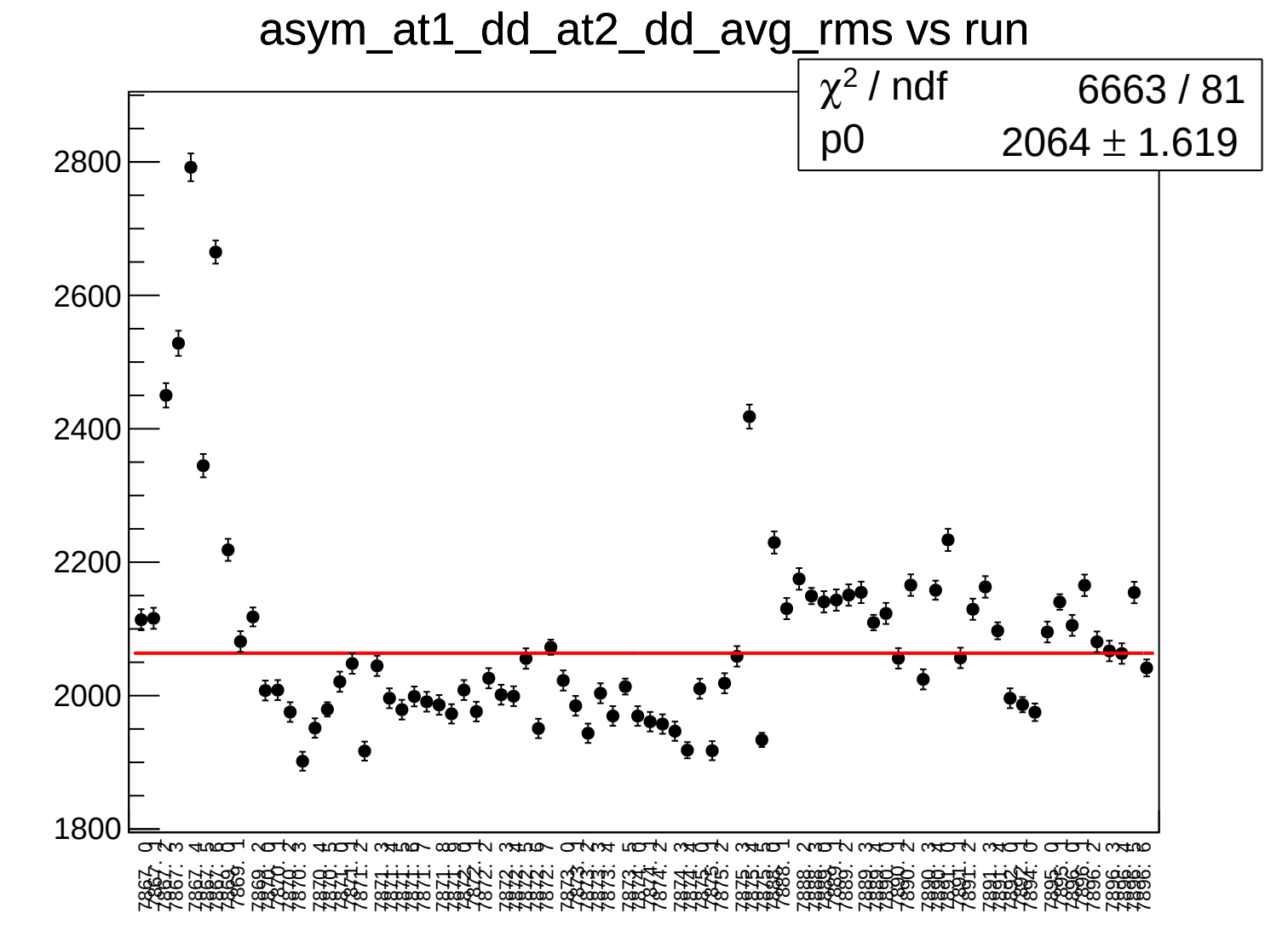

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 524.4 / 81
p0 1265 ± 0.9906
1360
1340
1320
1300
1280
1260
1240
1220
1200

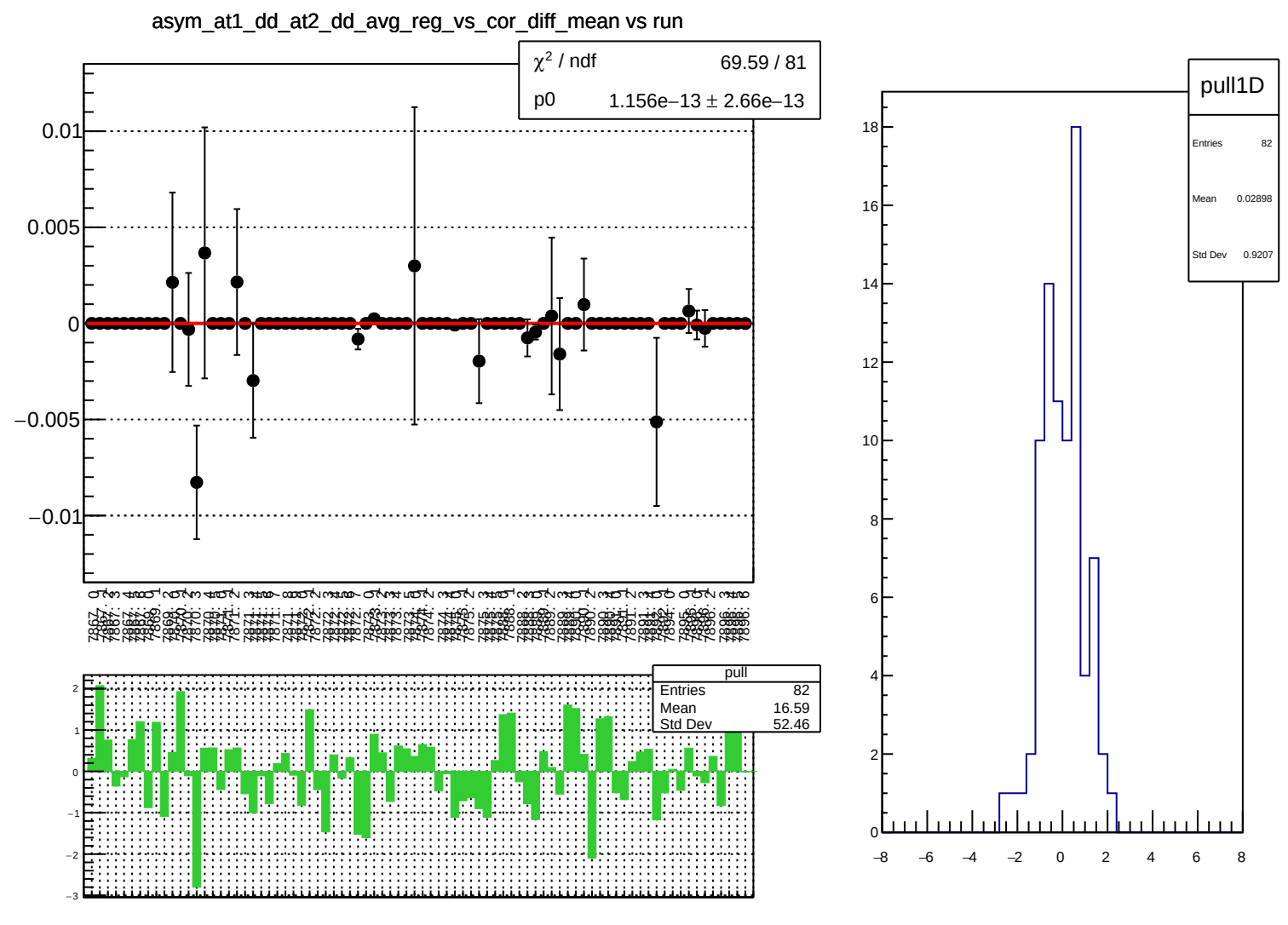

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.17 / 81
p0 197.8 ± 1857
pull
Entries 82
Mean −31
Std Dev 0
pull1D
Entries 82
Mean 0.007753
Std Dev 0.9184

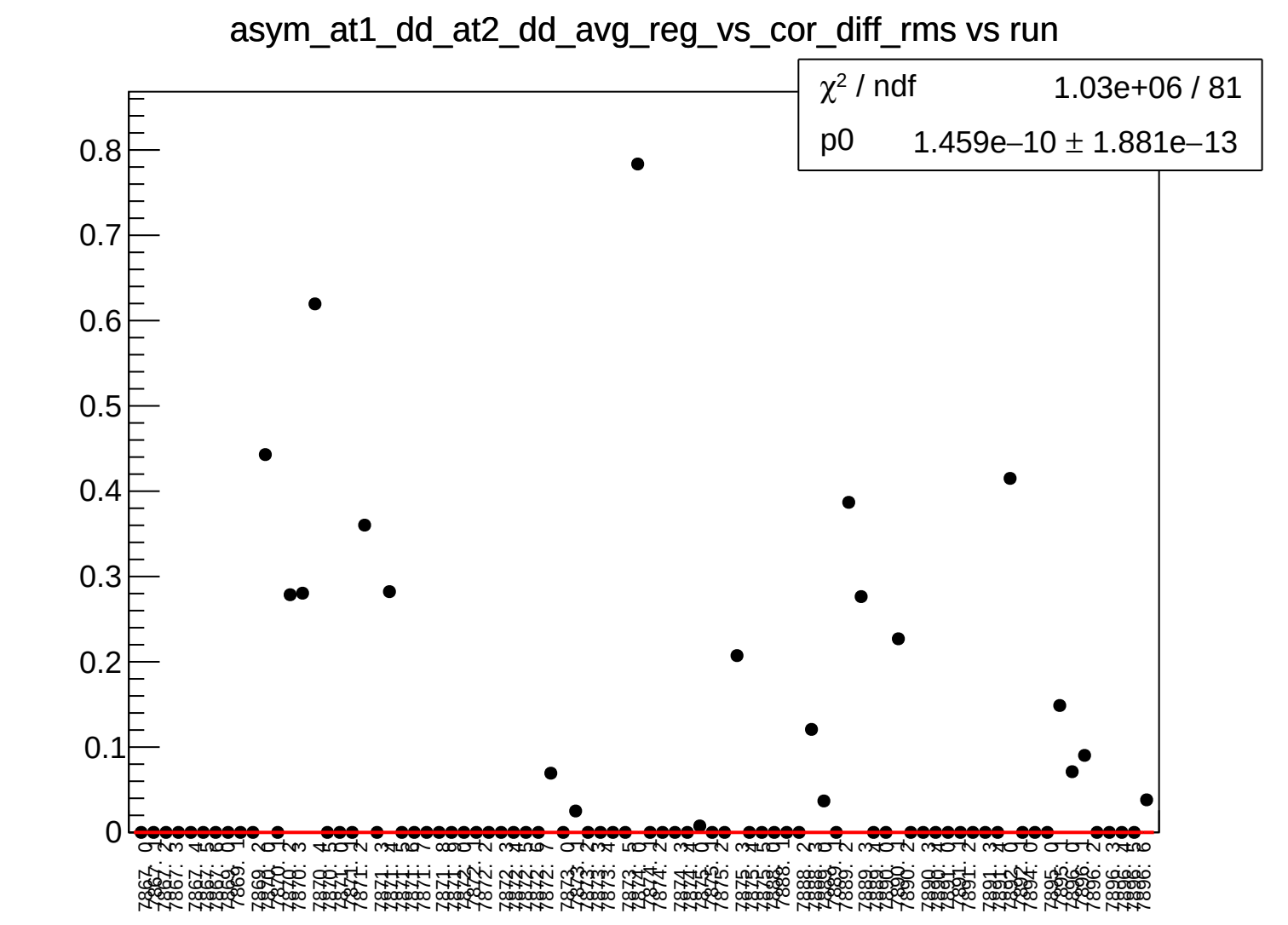

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.264e+04 / 81
p0 1671 ± 1.313
2600
2400
2200
2000
1800
1600
1400

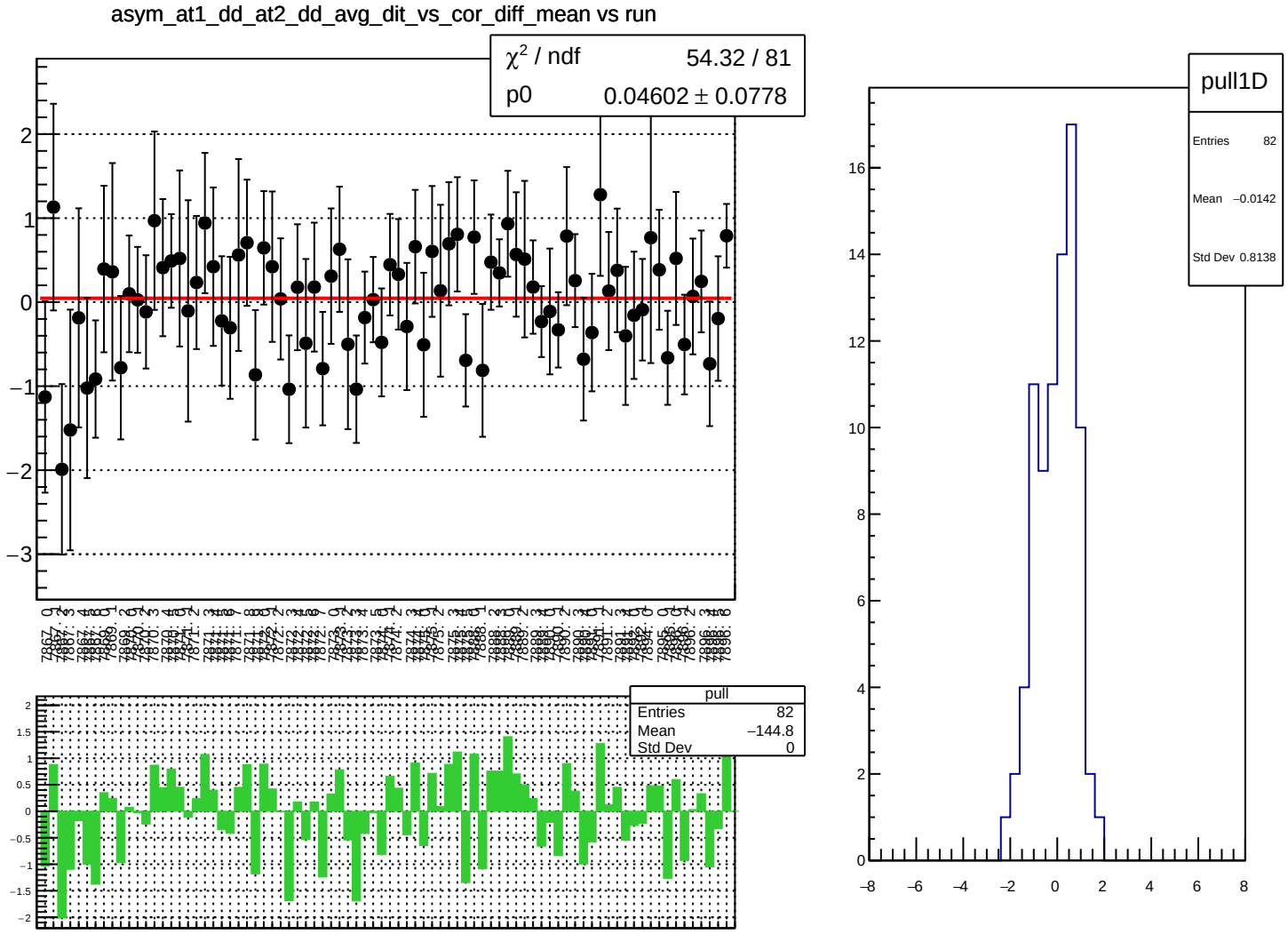

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 62.73 / 81
p0 2429 ± 2289
pull
Entries 82
Mean 1616
Std Dev 0

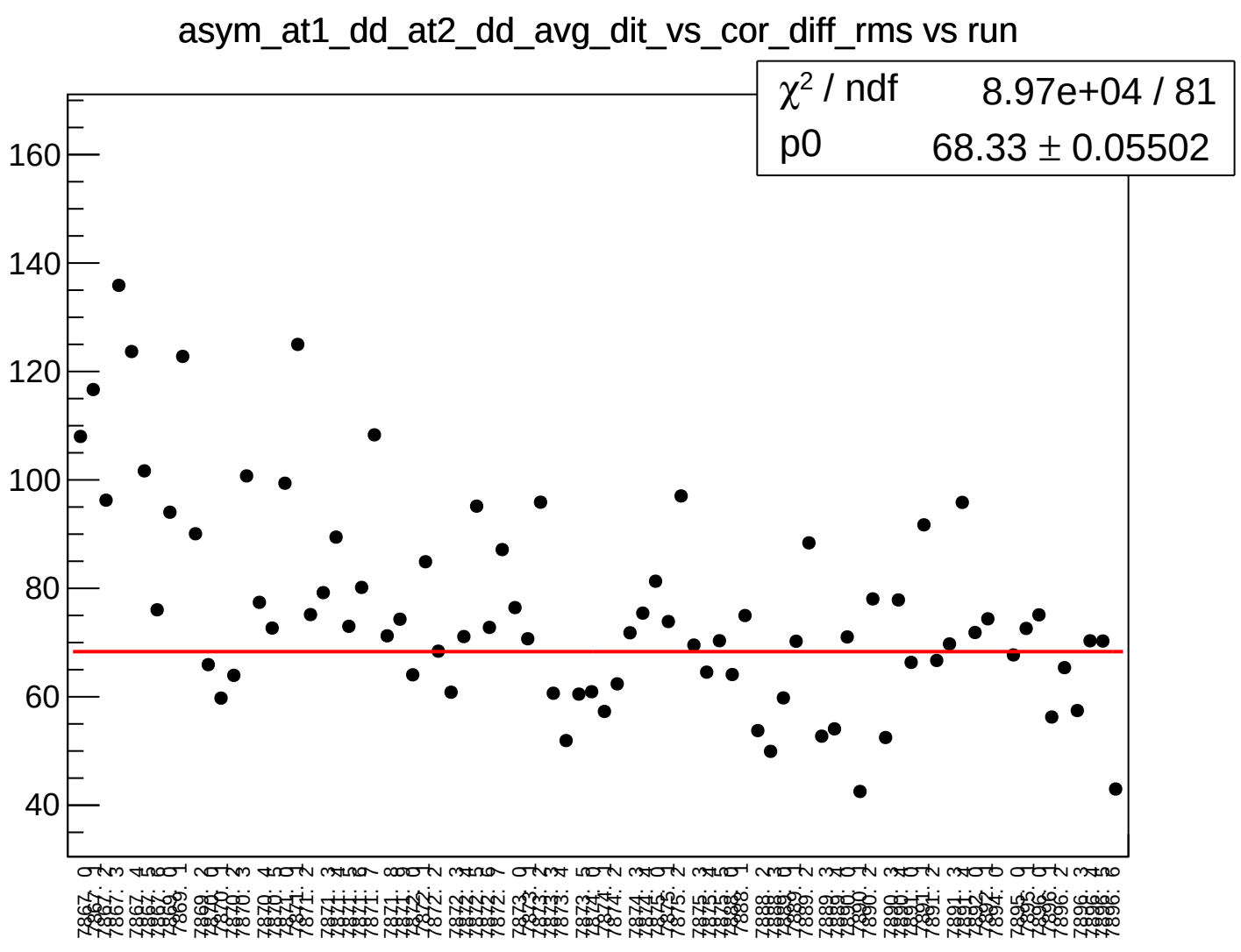

pull1D
Entries 82
Mean 0.001447
Std Dev 0.8746

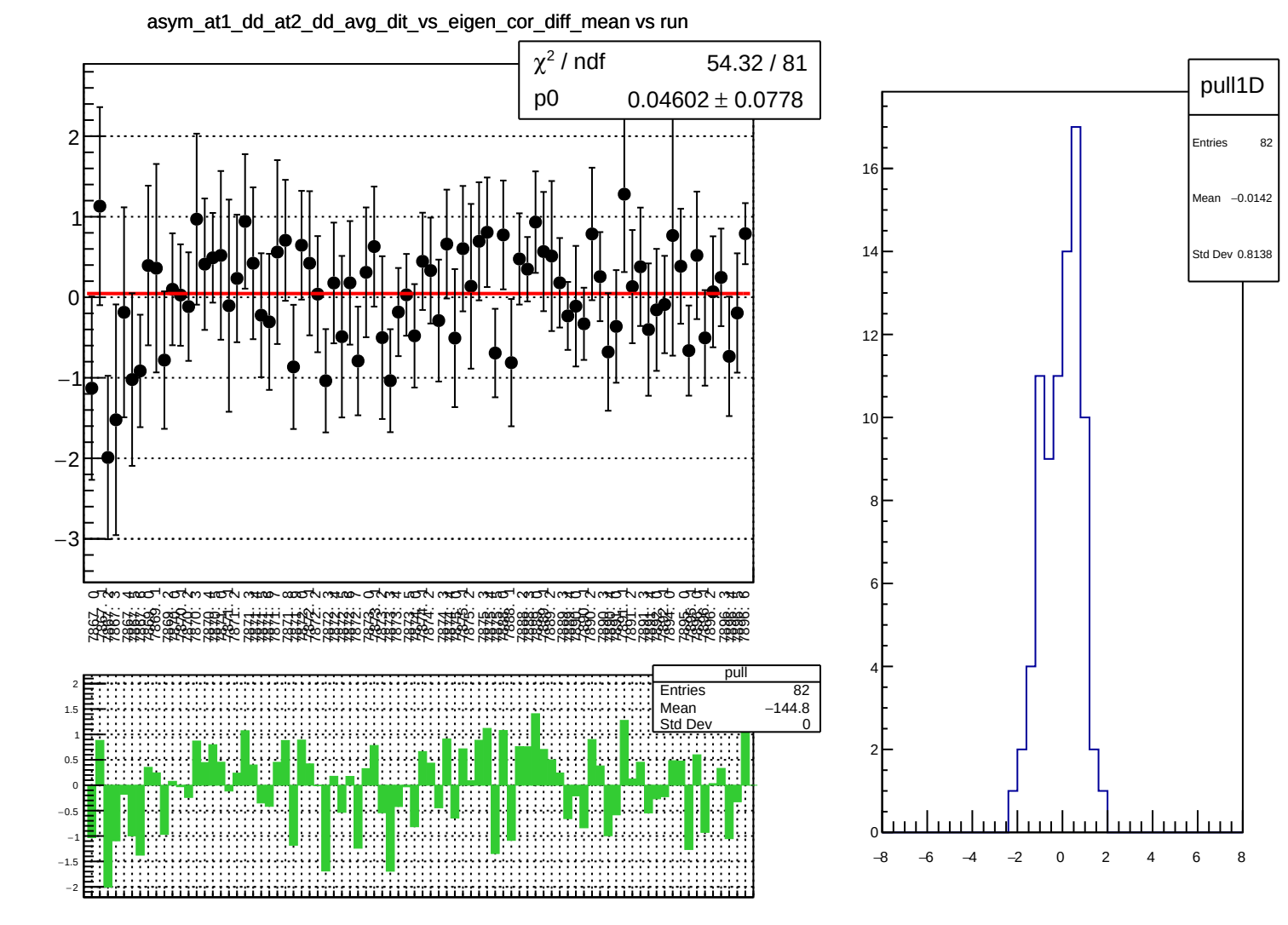

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 6663 / 81
p0 2064 ± 1.619
2800
2600
2400
2200
2000
1800

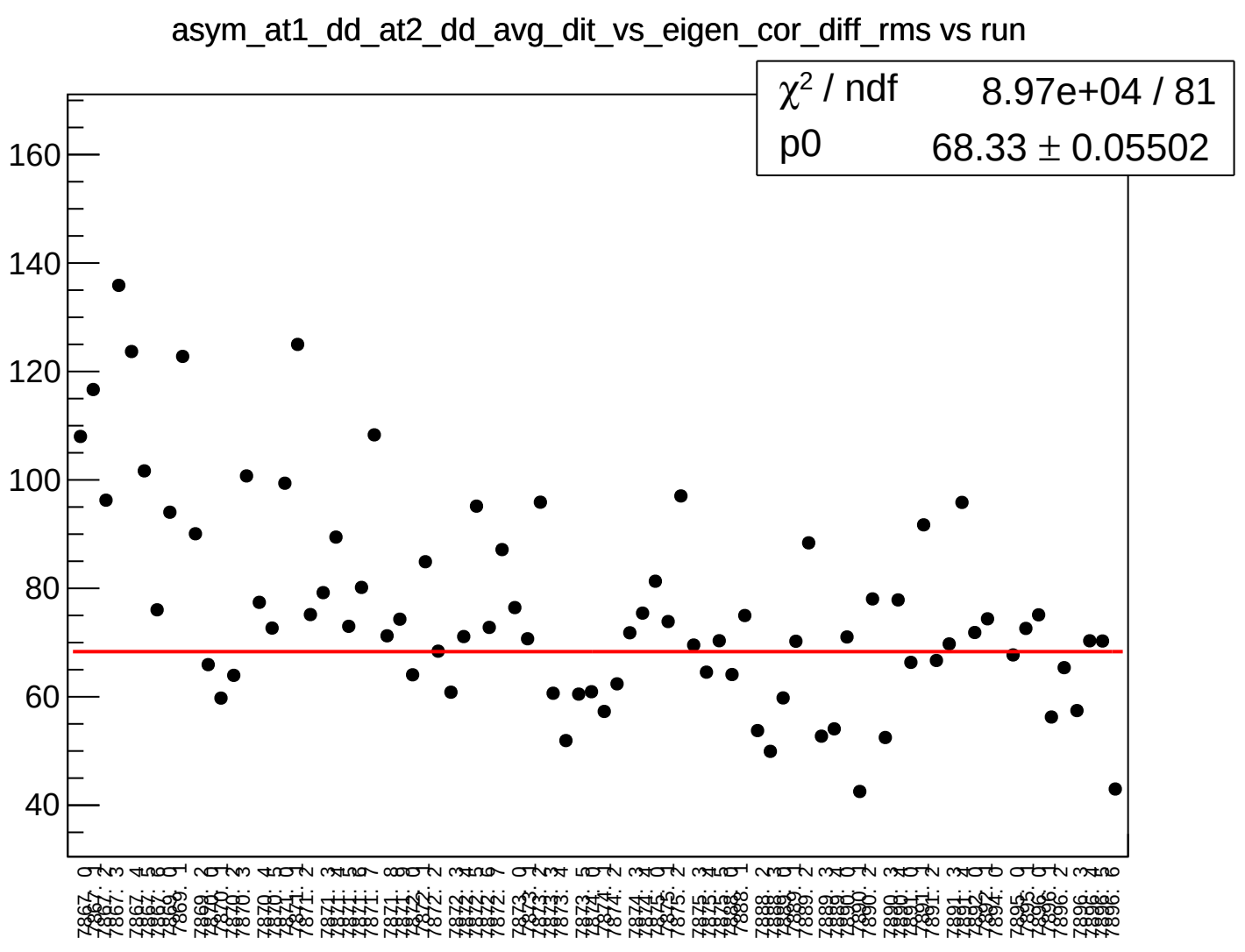

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.59 / 81
p0 1.156e−13 ± 2.66e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 82
Mean 16.59
Std Dev 52.46
pull1D
Entries 82
Mean 0.02898
Std Dev 0.9207

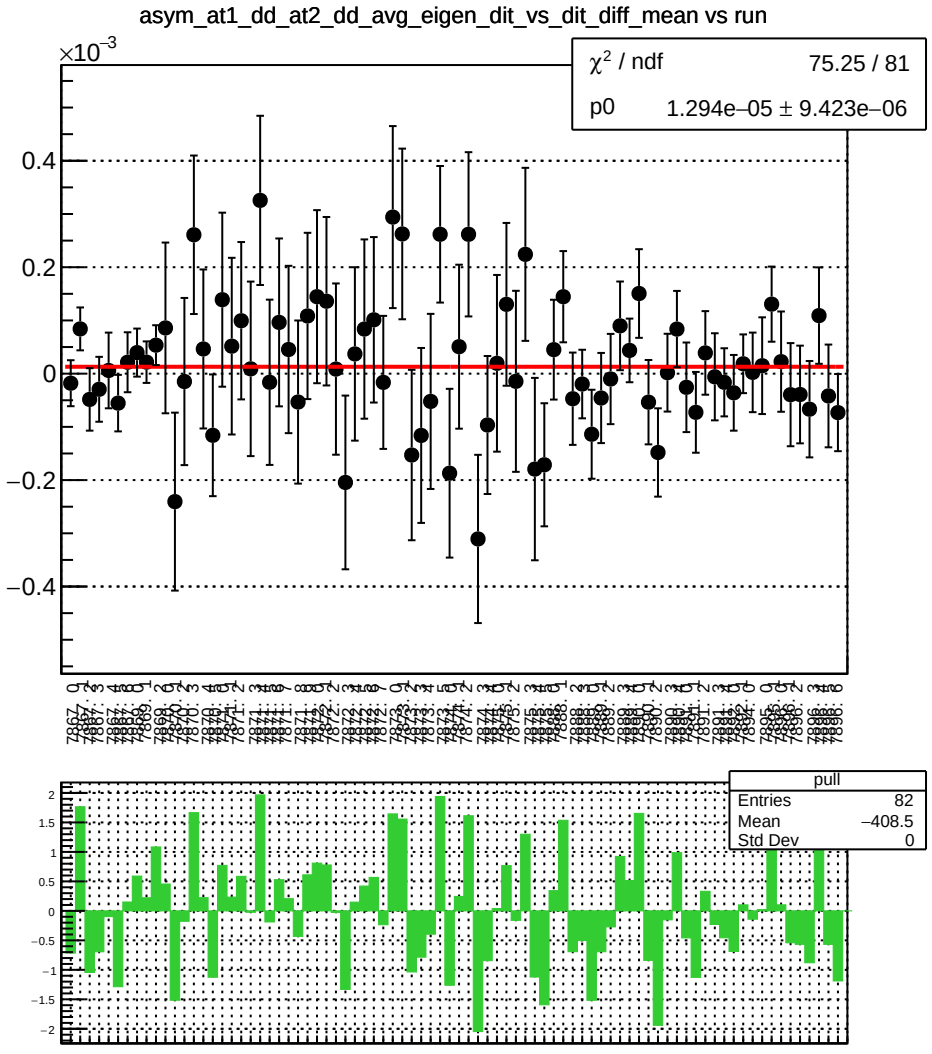

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 81
p0 1.459e−10 ± 1.881e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

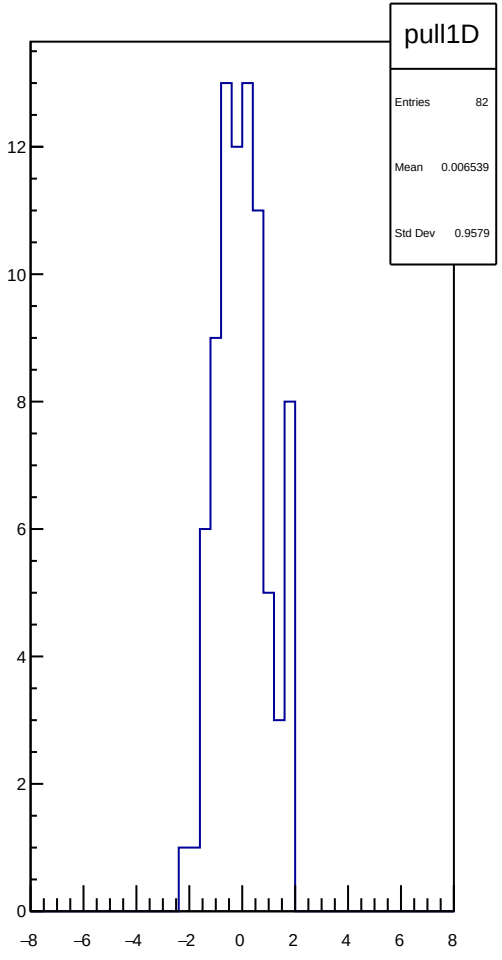

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04602 ± 0.0778
pull
Entries 82
Mean −144.8
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

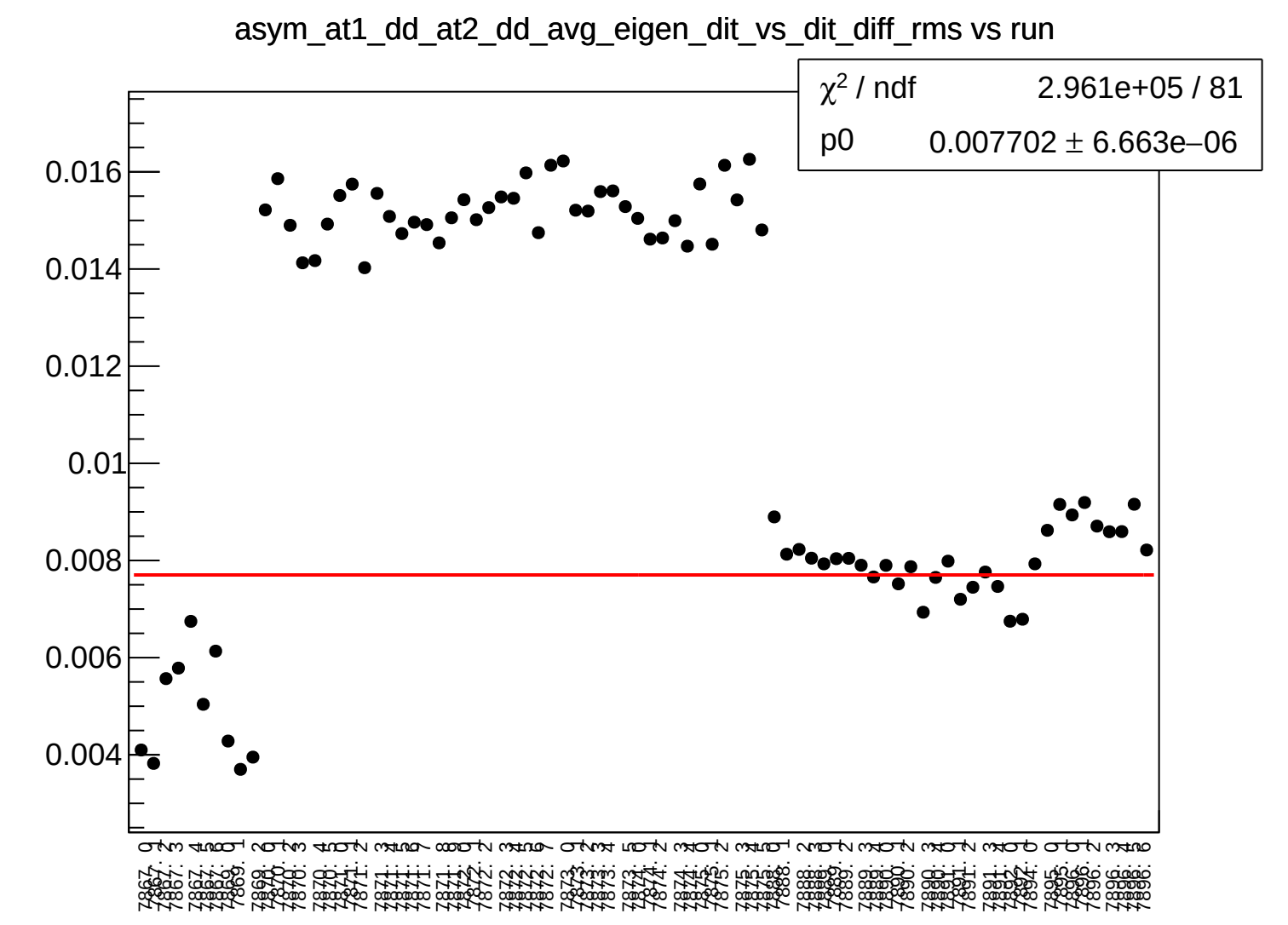

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.97e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

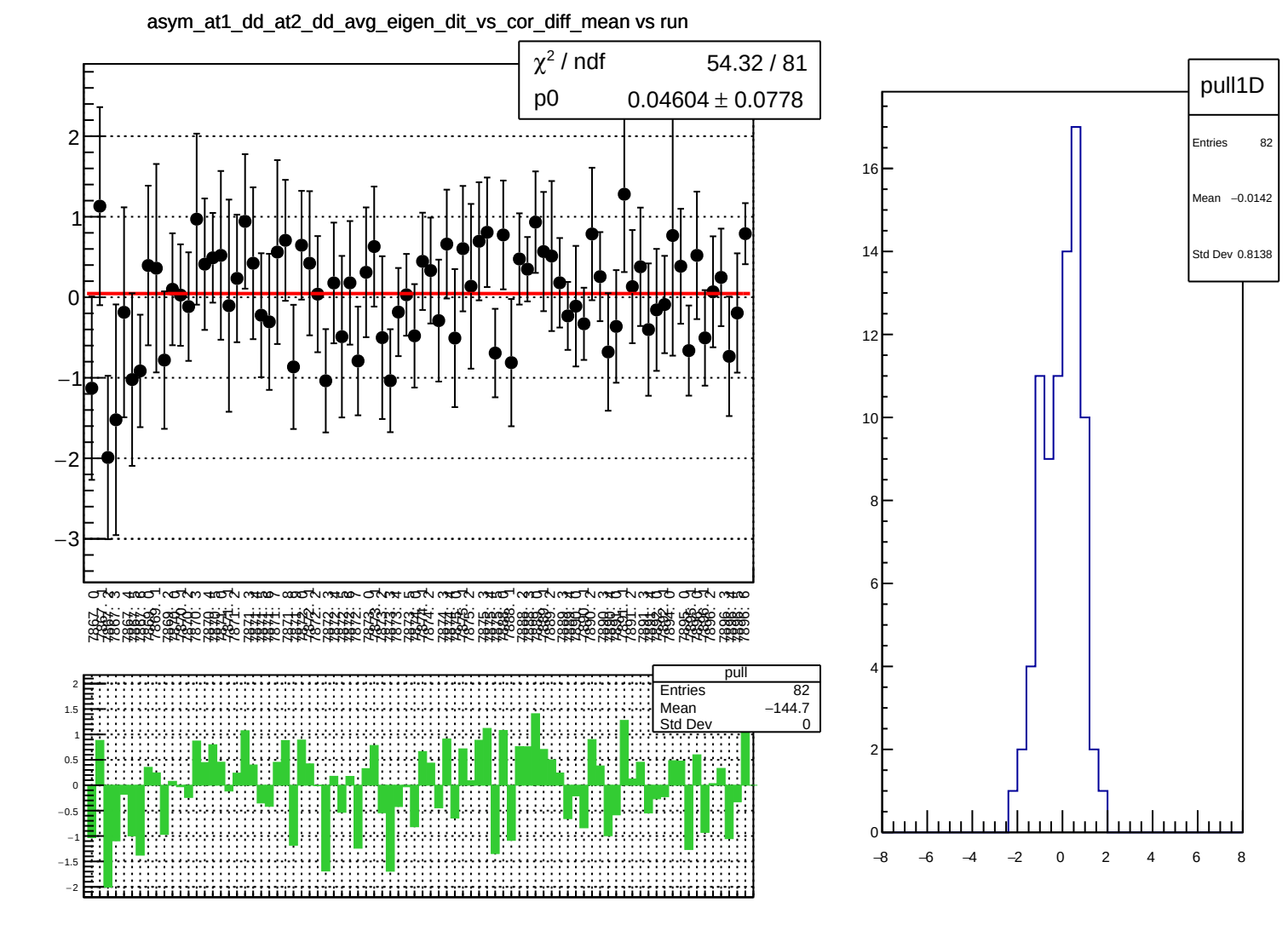

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04602 ± 0.0778
pull
Entries 82
Mean −144.8
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

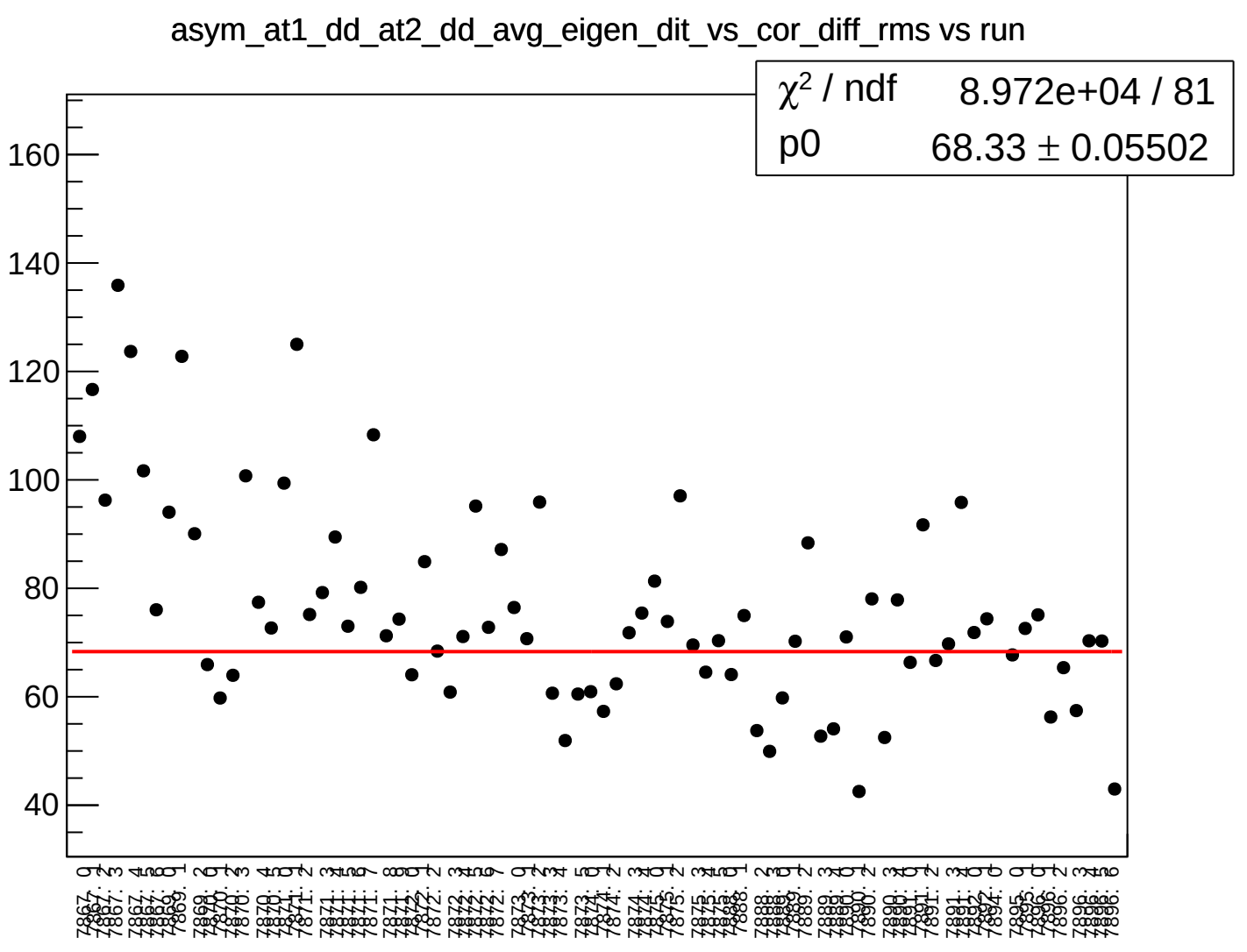

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.97e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

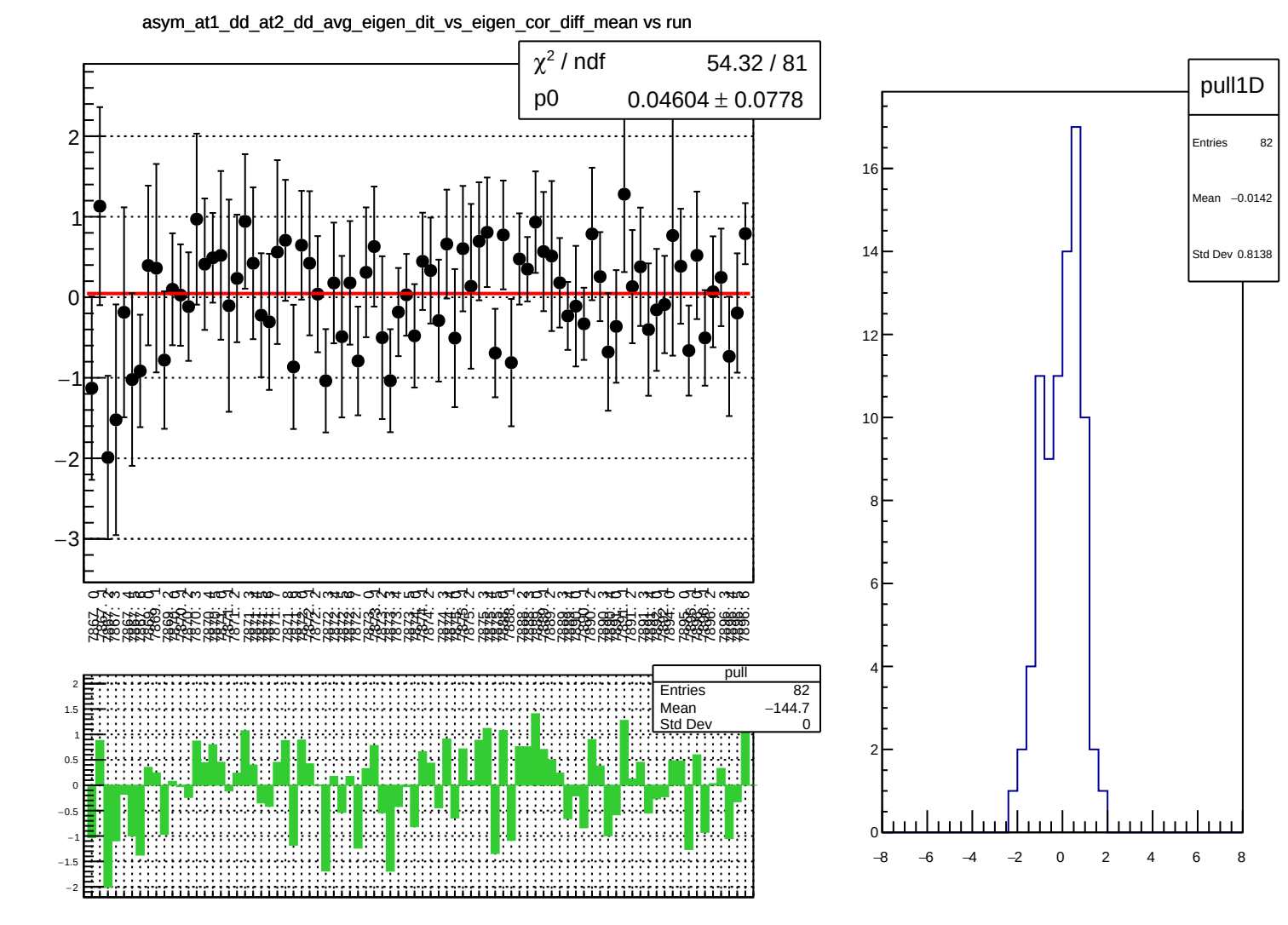

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.25 / 81
p0 1.294e−05 ± 9.423e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean −408.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

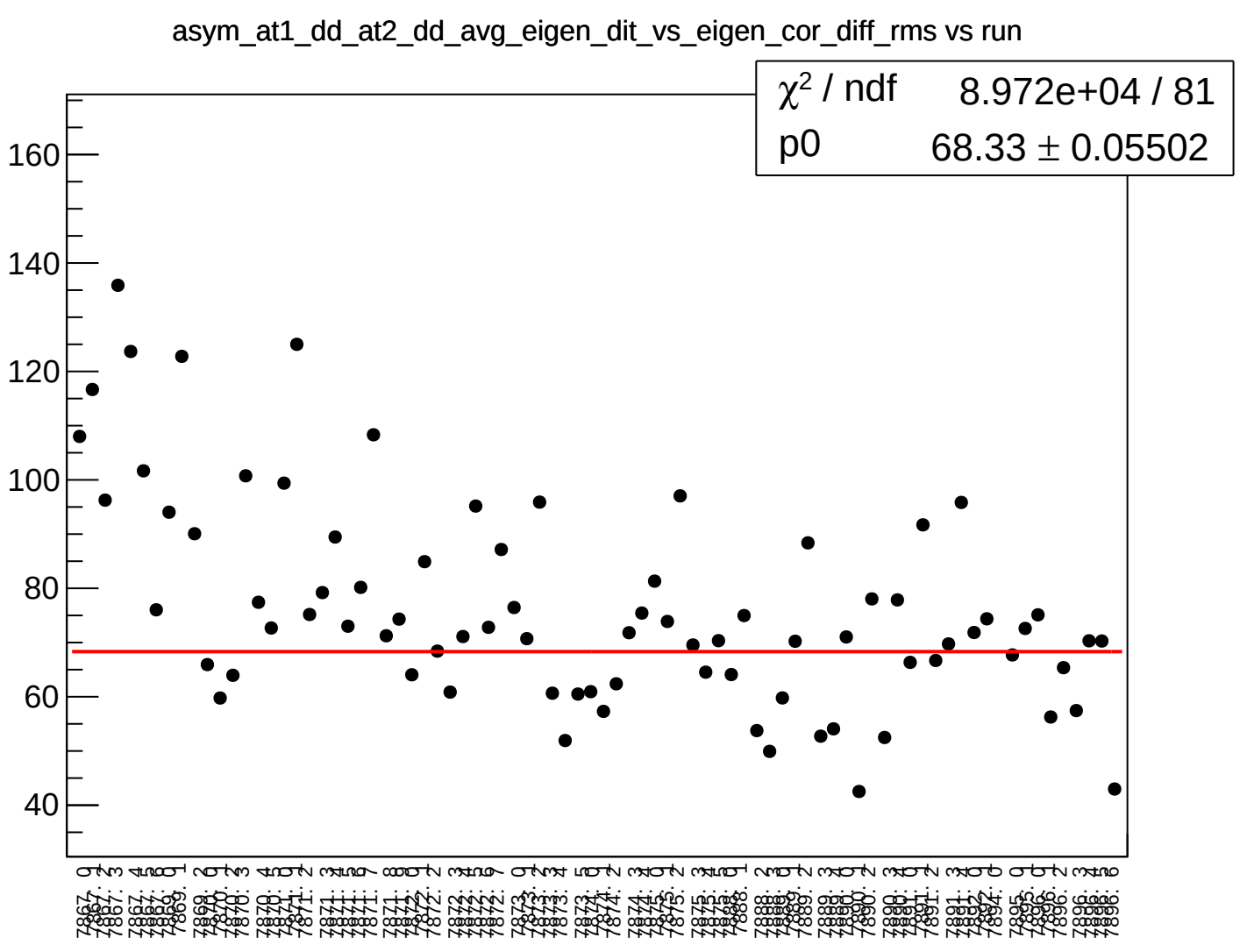

pull1D
Entries 82
Mean 0.006539
Std Dev 0.9579
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

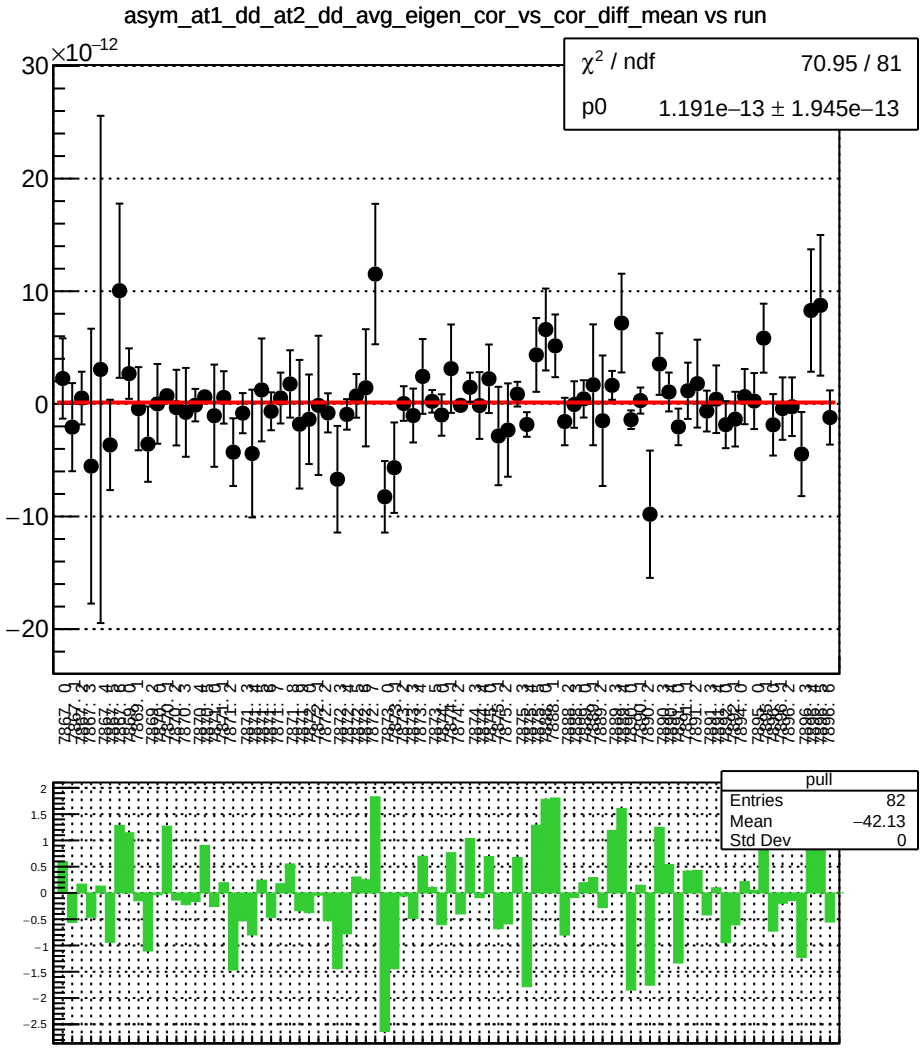

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.961e+05 / 81
p0 0.007702 ± 6.663e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

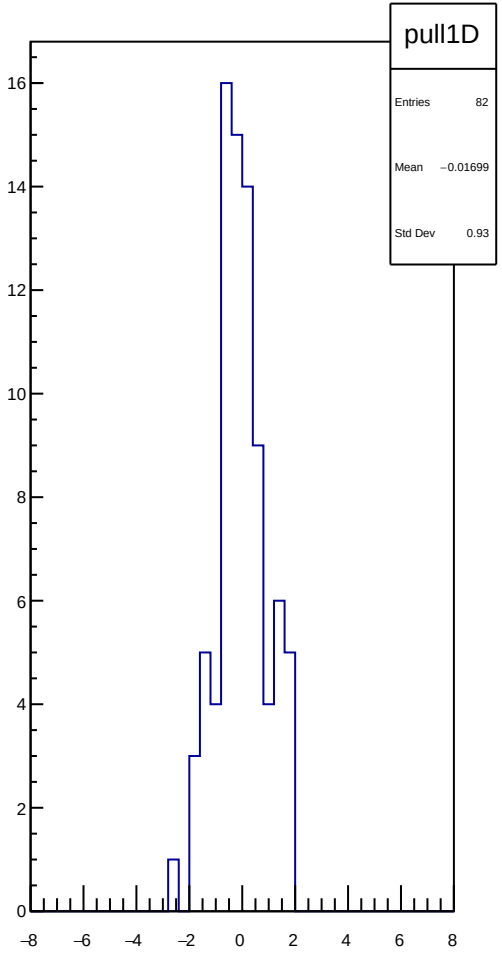

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04604 ± 0.0778
pull
Entries 82
Mean −144.7
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

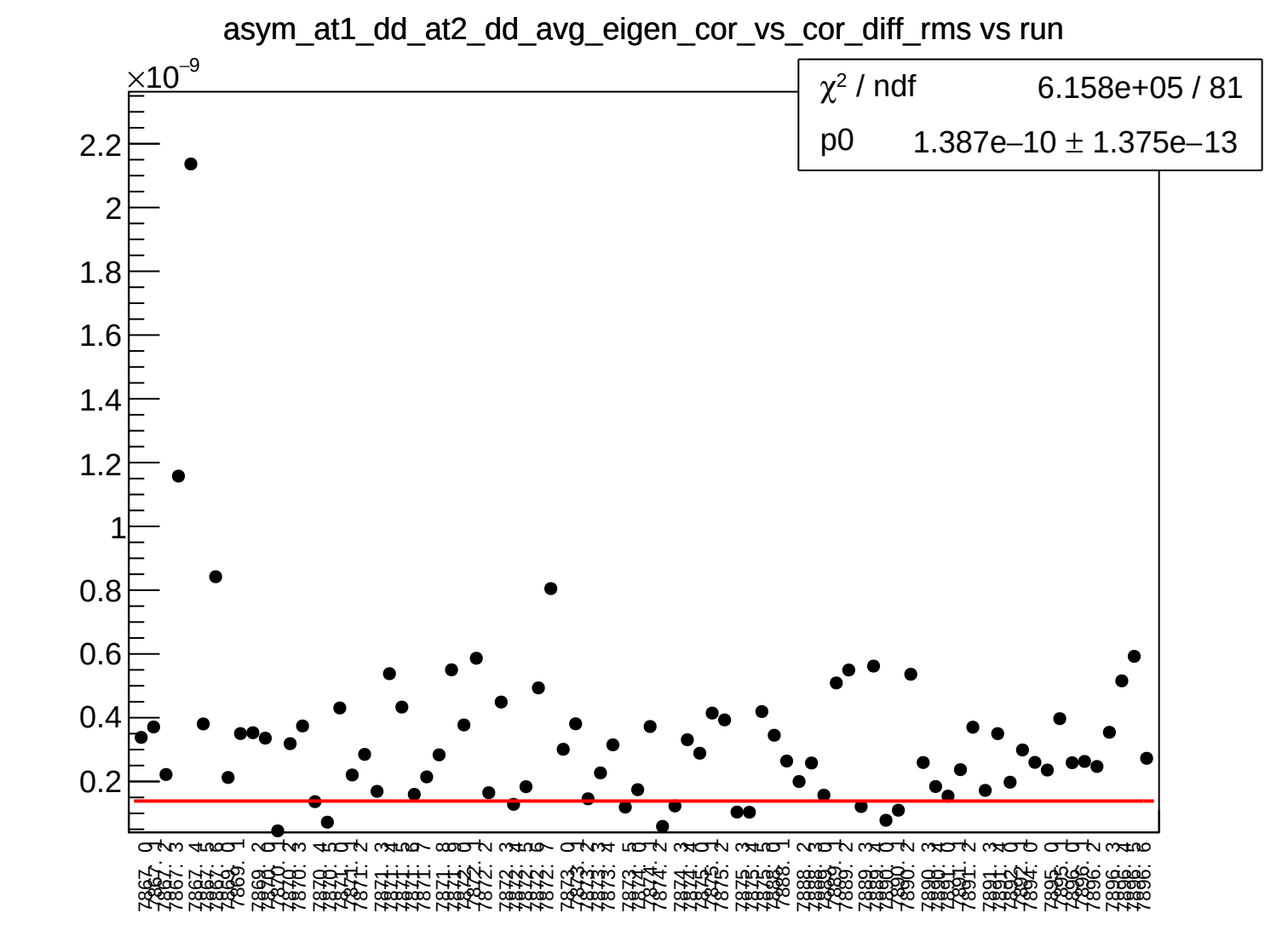

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.972e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

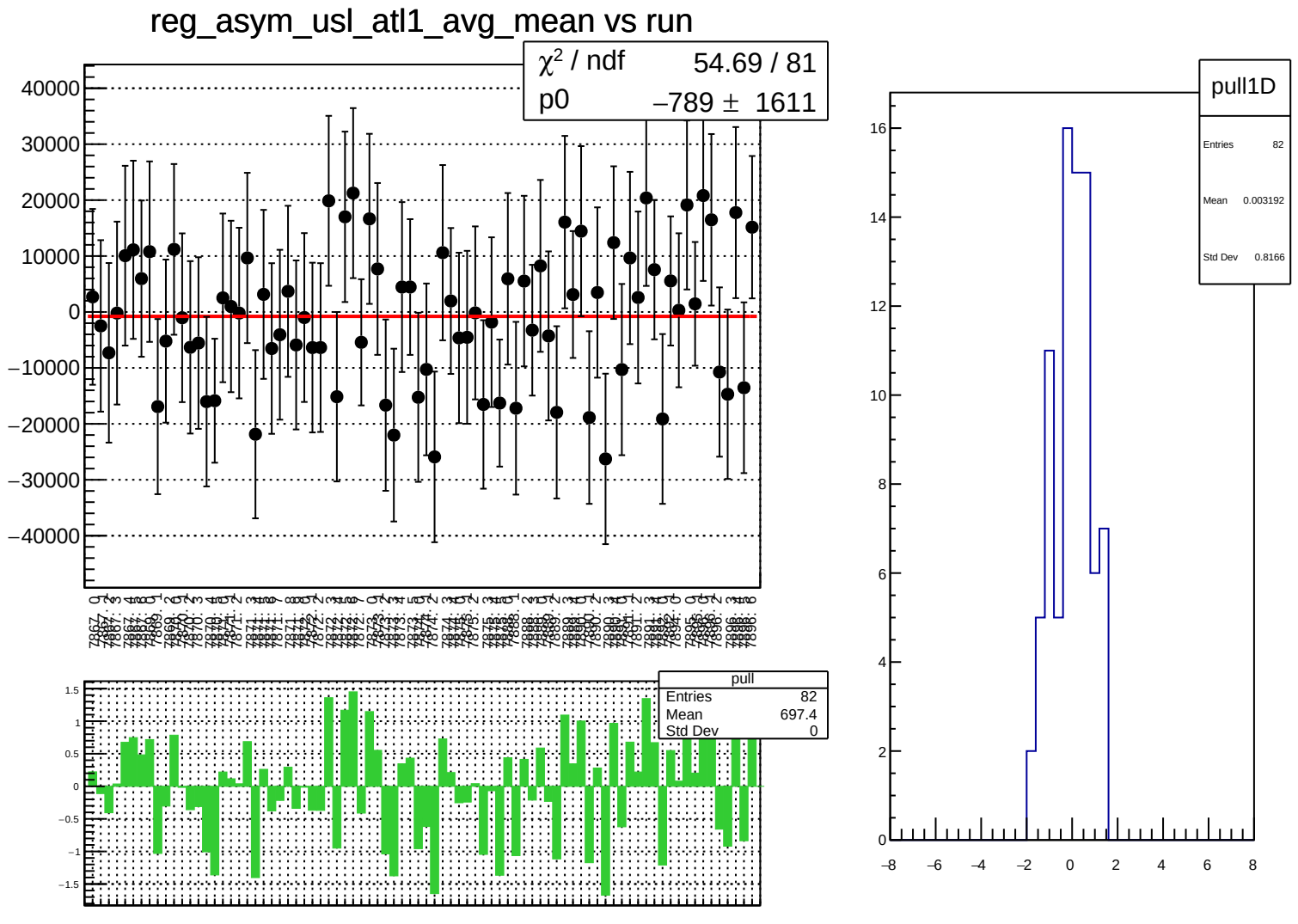

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.32 / 81
p0 0.04604 ± 0.0778
pull
Entries 82
Mean −144.7
Std Dev 0
pull1D
Entries 82
Mean −0.0142
Std Dev 0.8138

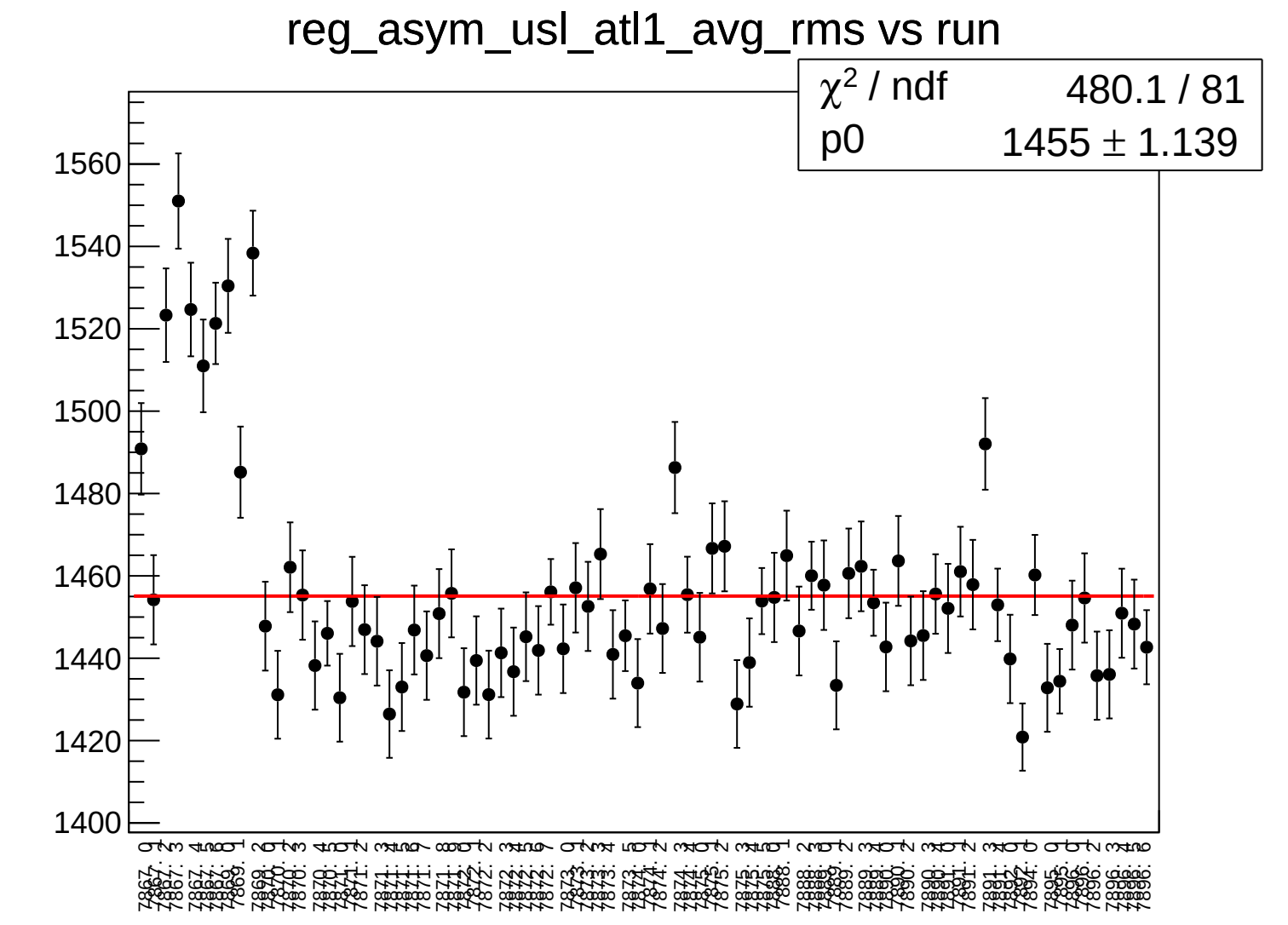

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.972e+04 / 81
p0 68.33 ± 0.05502
160
140
120
100
80
60
40

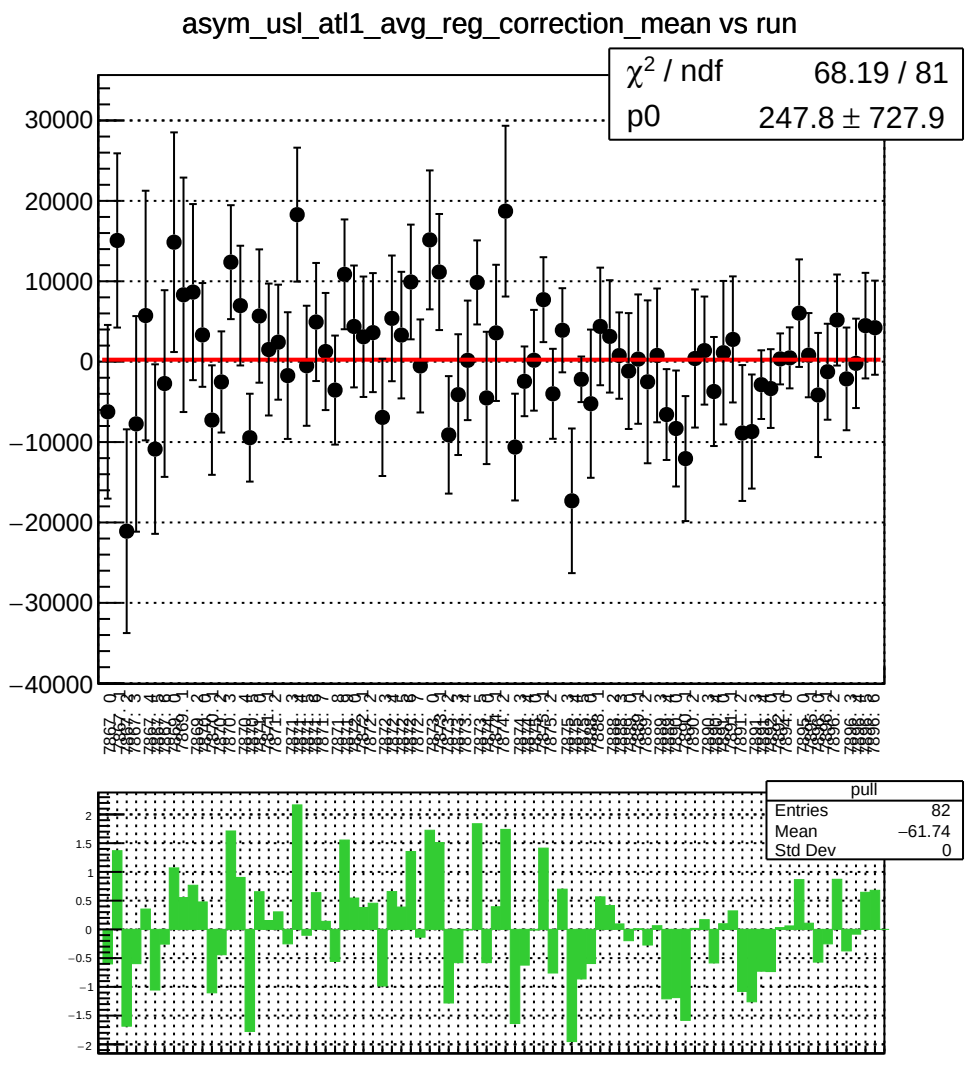

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.95 / 81
p0 1.191e−13 ± 1.945e−13
pull
Entries 82
Mean −42.13
Std Dev 0

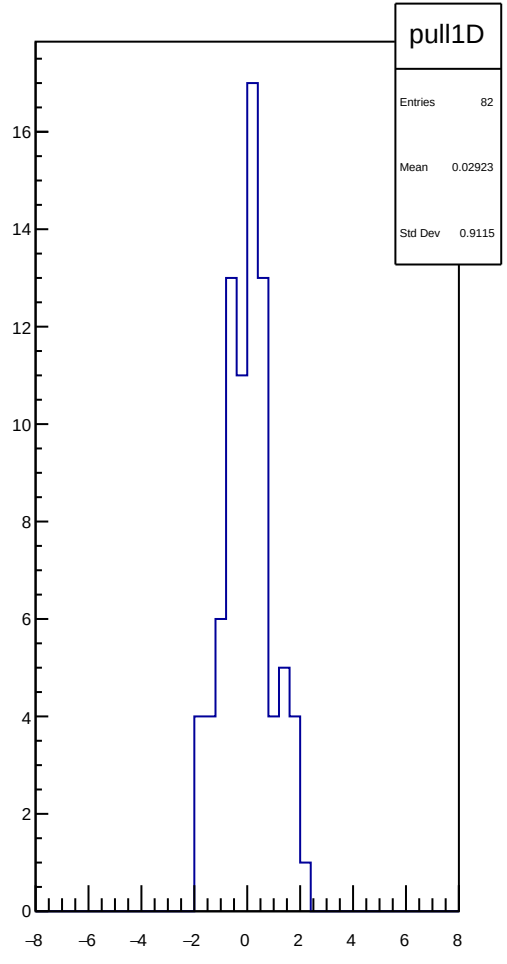

pull1D
Entries 82
Mean −0.01699
Std Dev 0.93

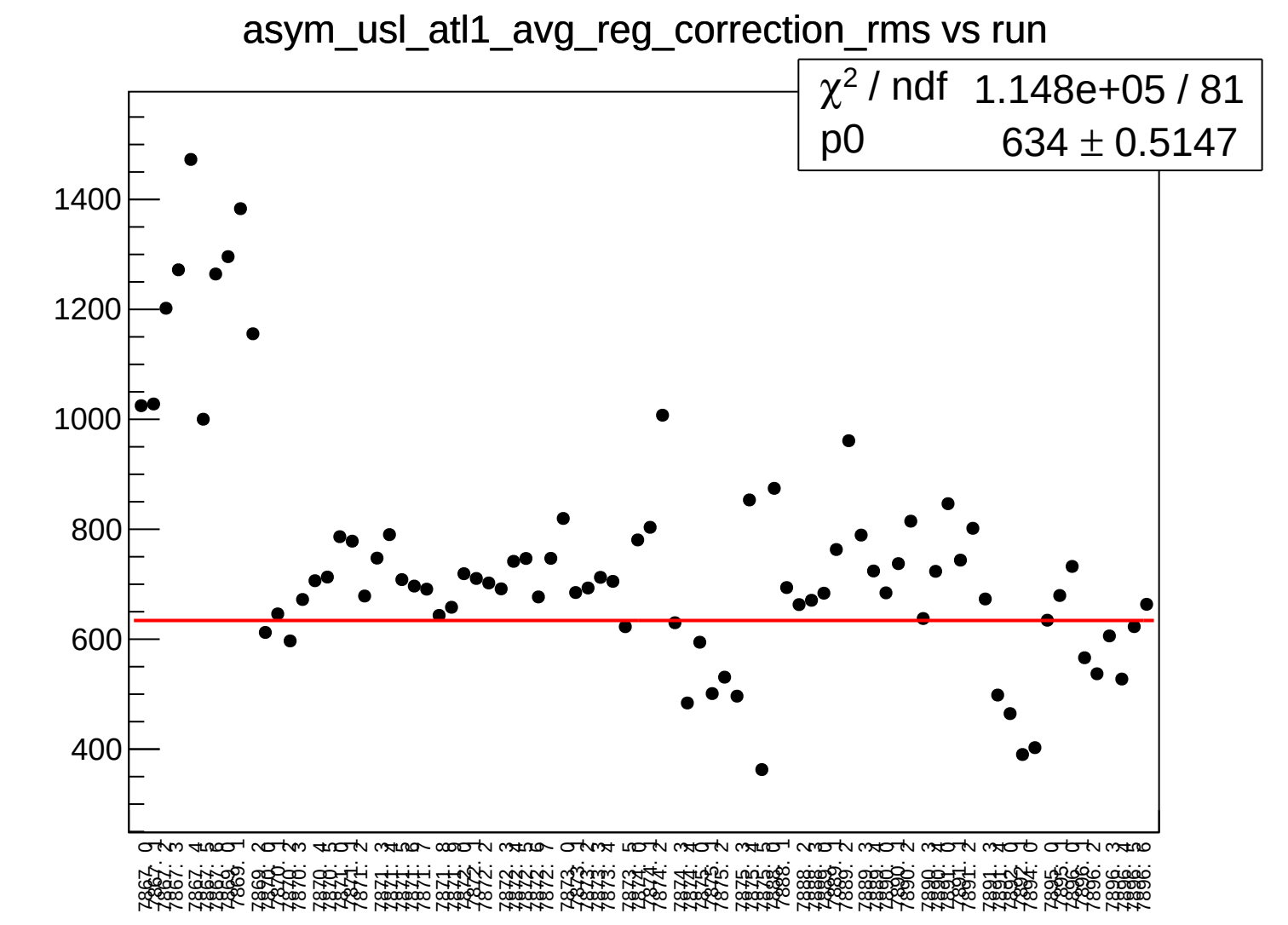

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.158e+05 / 81
p0 1.387e−10 ± 1.375e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

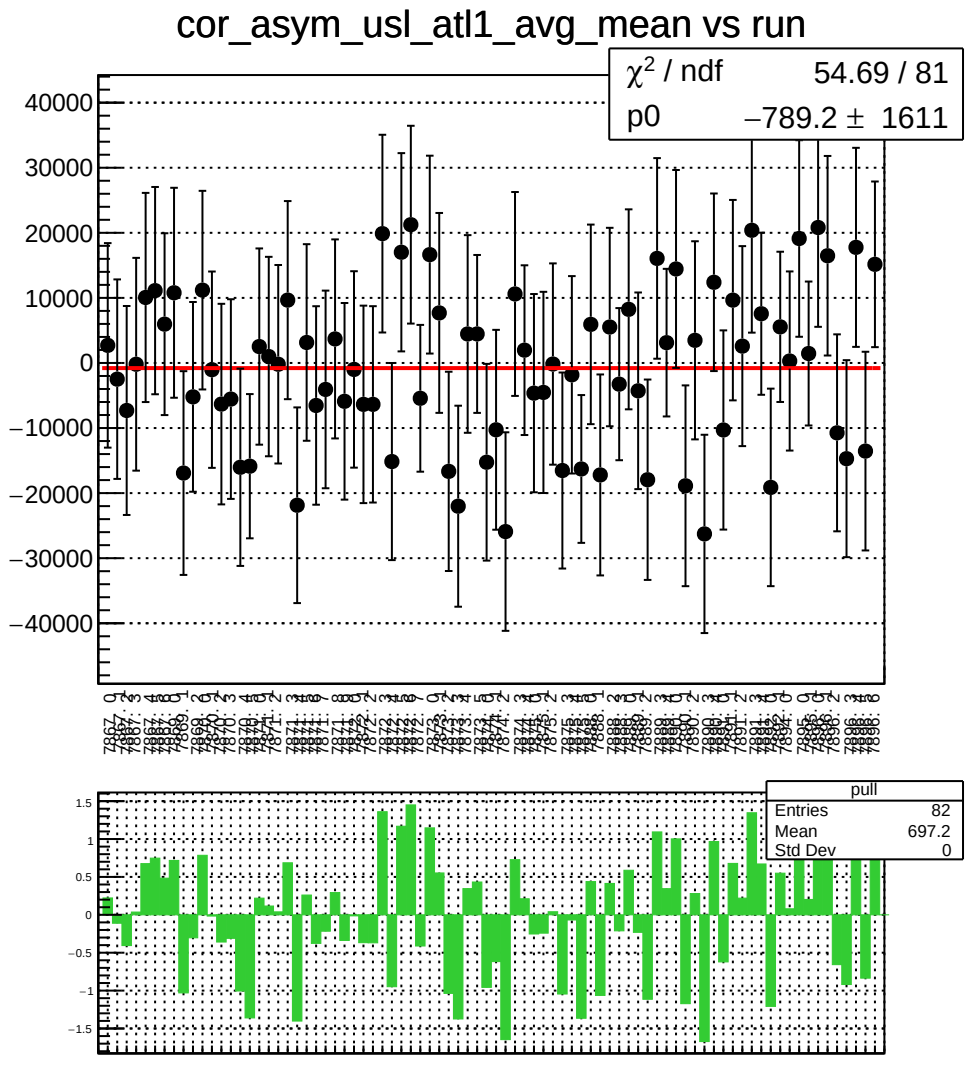

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 54.69 / 81
p0 −789 ± 1611
pull
Entries 82
Mean 697.4
Std Dev 0
pull1D
Entries 82
Mean 0.003192
Std Dev 0.8166

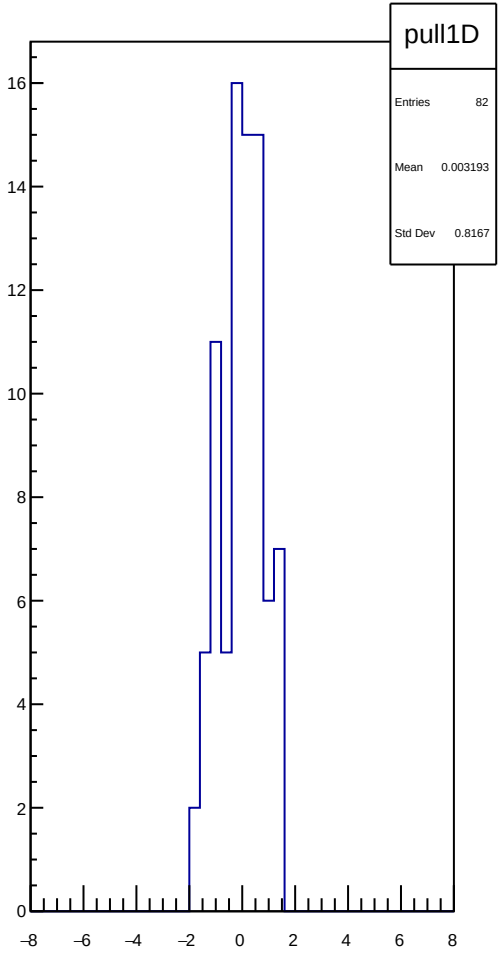

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 480.1 / 81
p0 1455 ± 1.139
1560
1540
1520
1500
1480
1460
1440
1420
1400

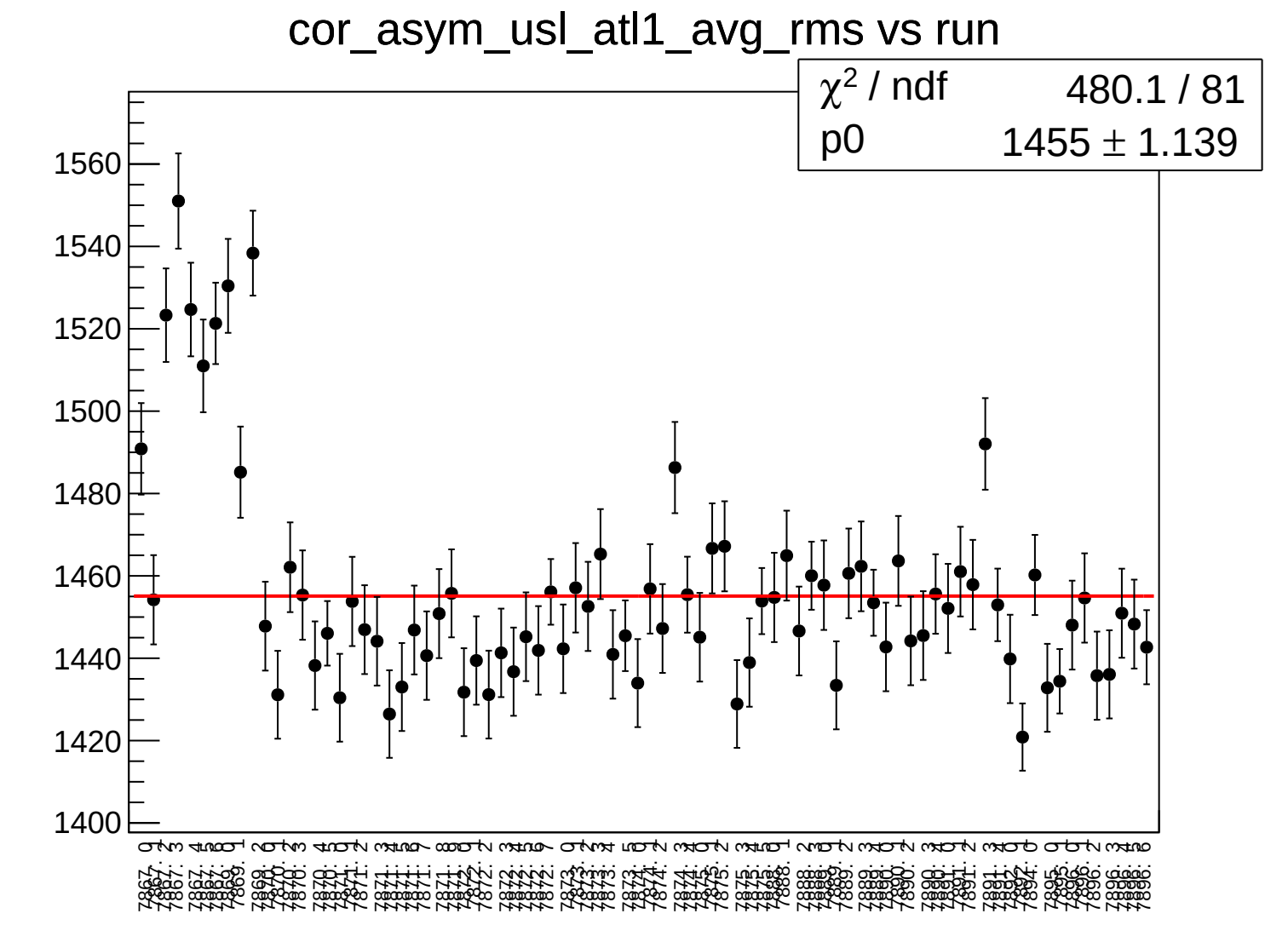

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 68.19 / 81
p0 247.8 ± 727.9
pull
Entries 82
Mean −61.74
Std Dev 0

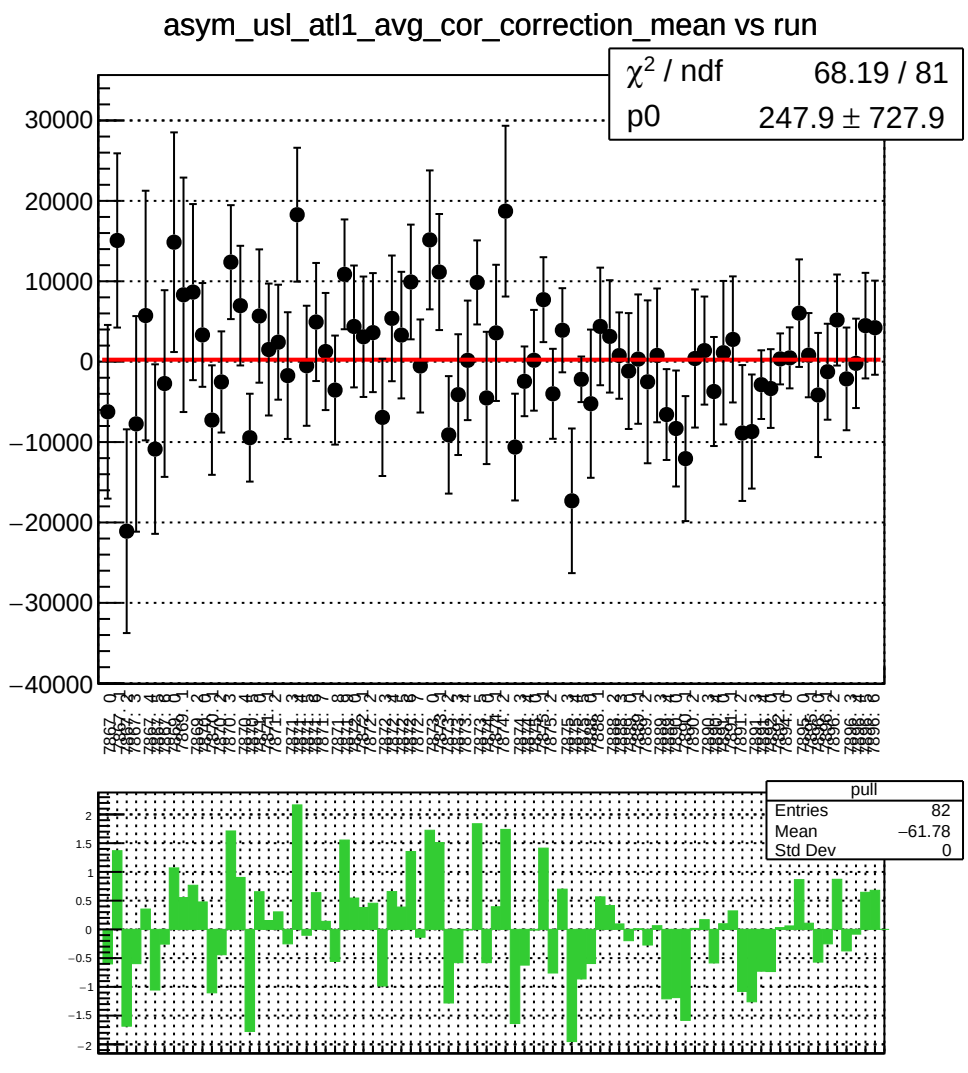

pull1D
Entries 82
Mean 0.02923
Std Dev 0.9115

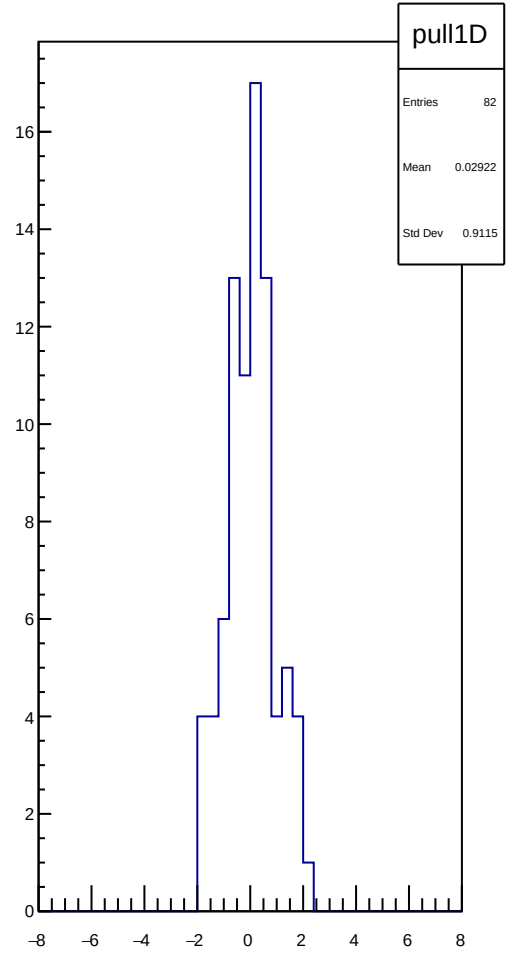

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.148e+05 / 81
p0 634 ± 0.5147
1400
1200
1000
800
600
400

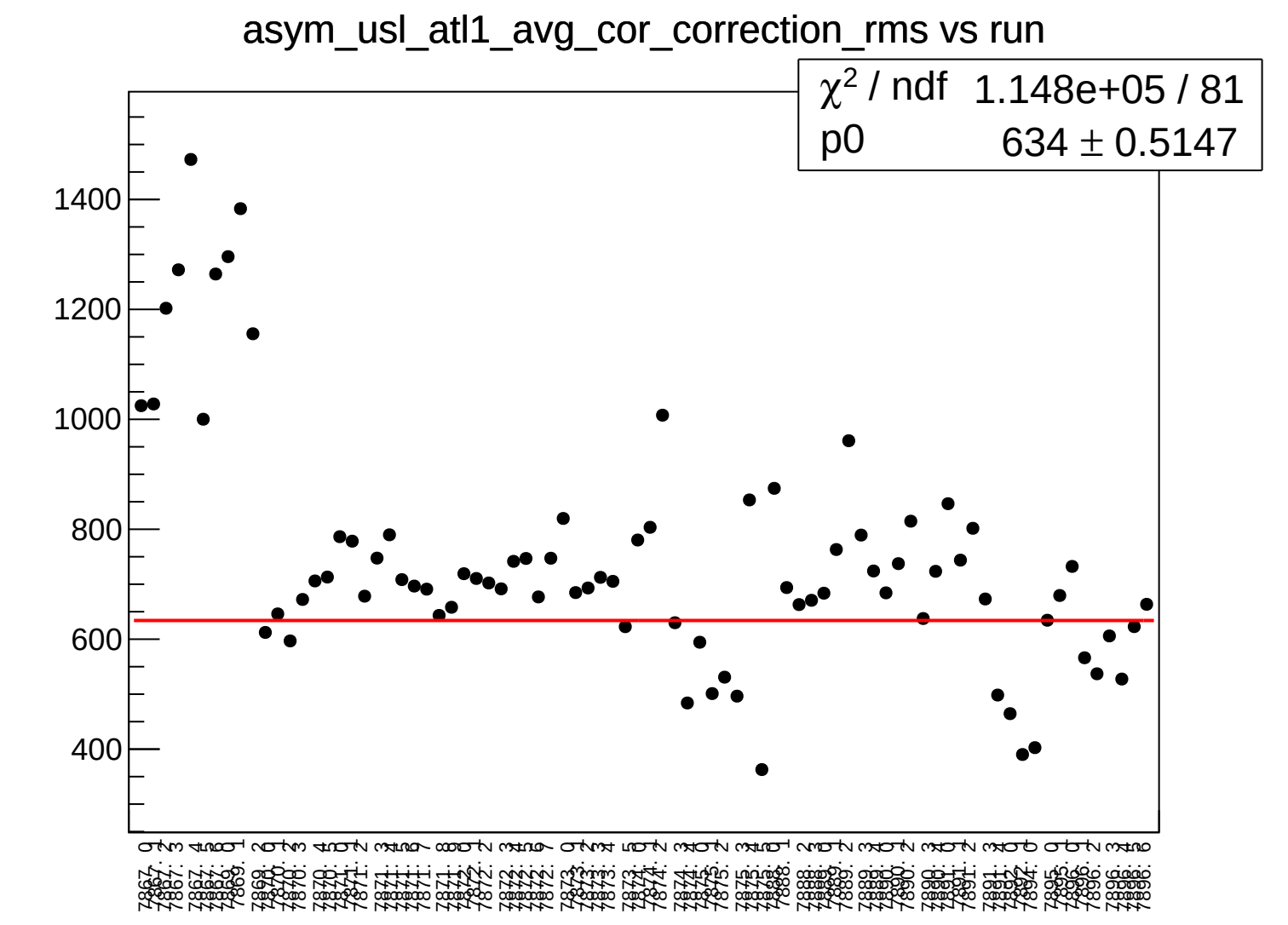

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 54.69 / 81
p0 −789.2 ± 1611
pull
Entries 82
Mean 697.2
Std Dev 0

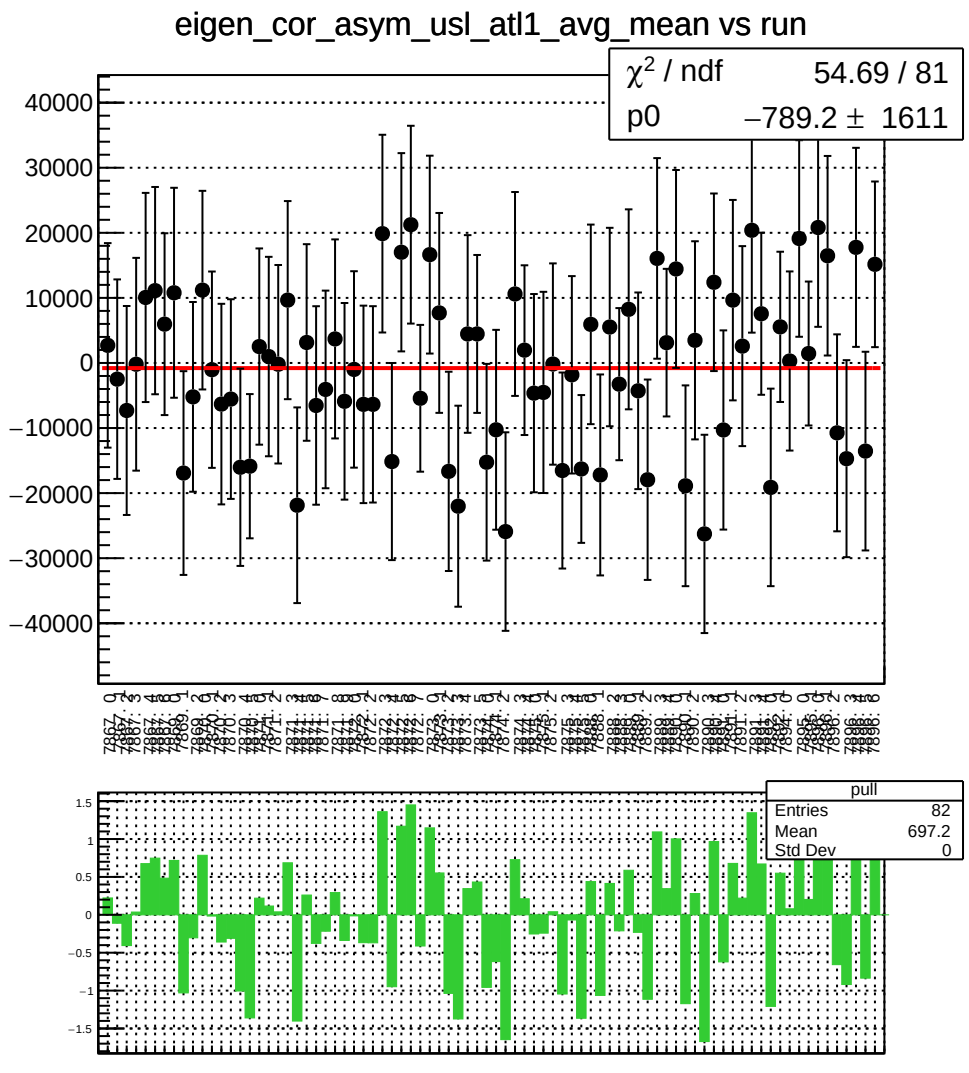

pull1D
Entries 82
Mean 0.003193
Std Dev 0.8167

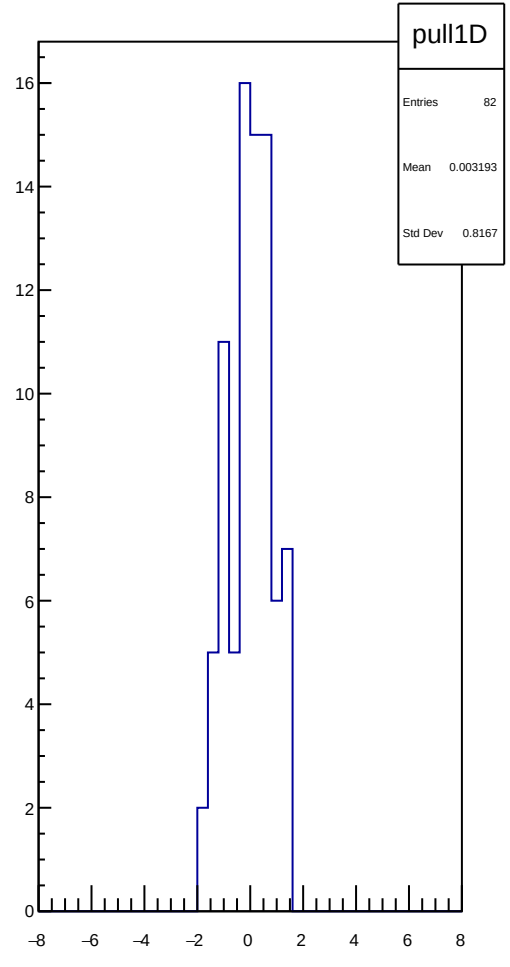

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 480.1 / 81
p0 1455 ± 1.139
1560
1540
1520
1500
1480
1460
1440
1420
1400

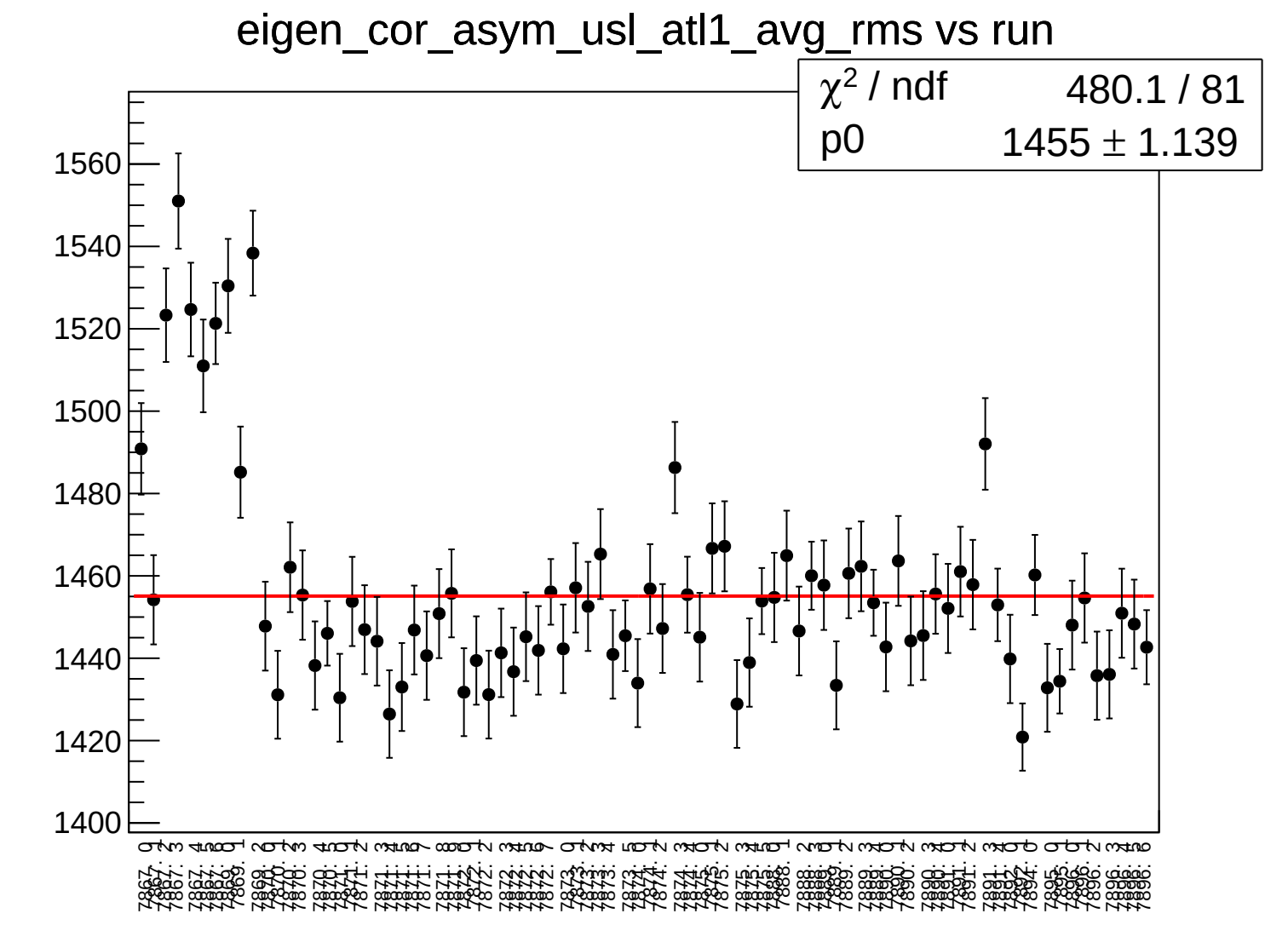

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 68.19 / 81
p0 247.9 ± 727.9
pull
Entries 82
Mean −61.78
Std Dev 0

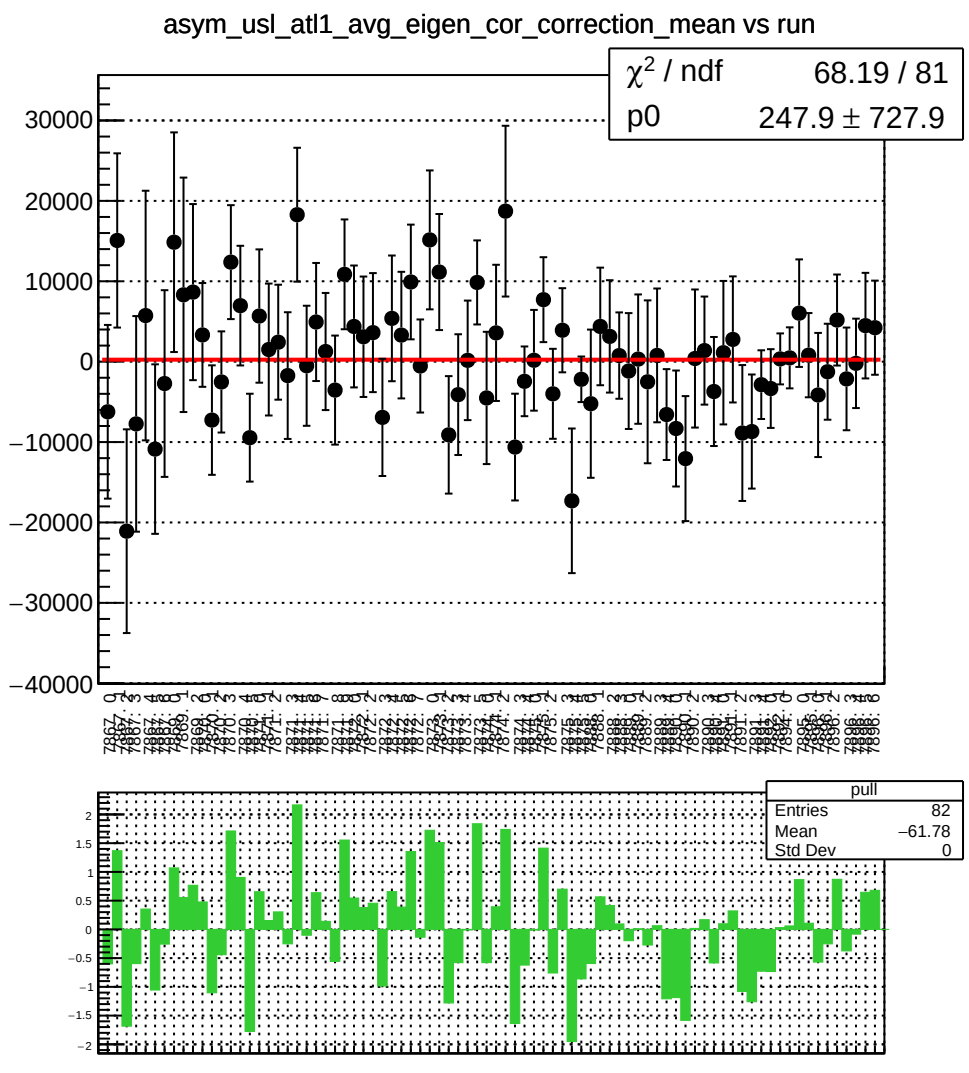

pull1D
Entries 82
Mean 0.02922
Std Dev 0.9115

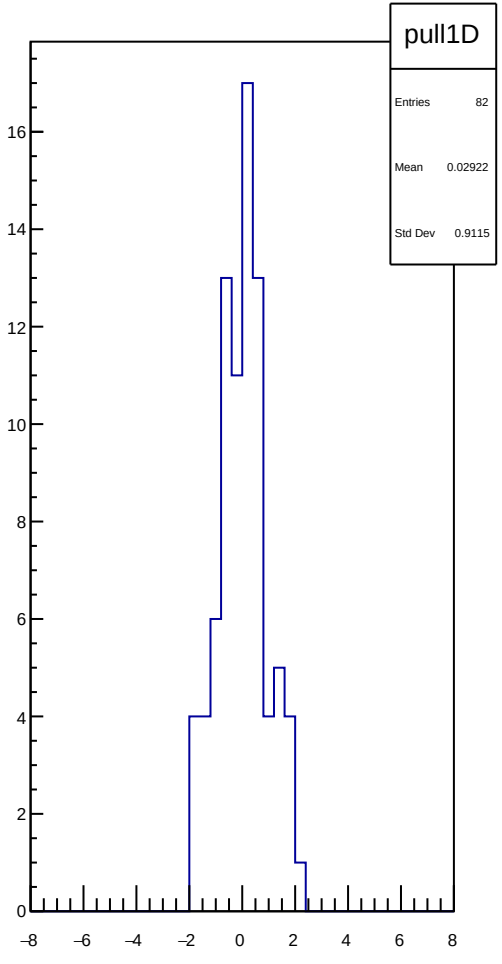

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.148e+05 / 81
p0 634 ± 0.5147
1400
1200
1000
800
600
400

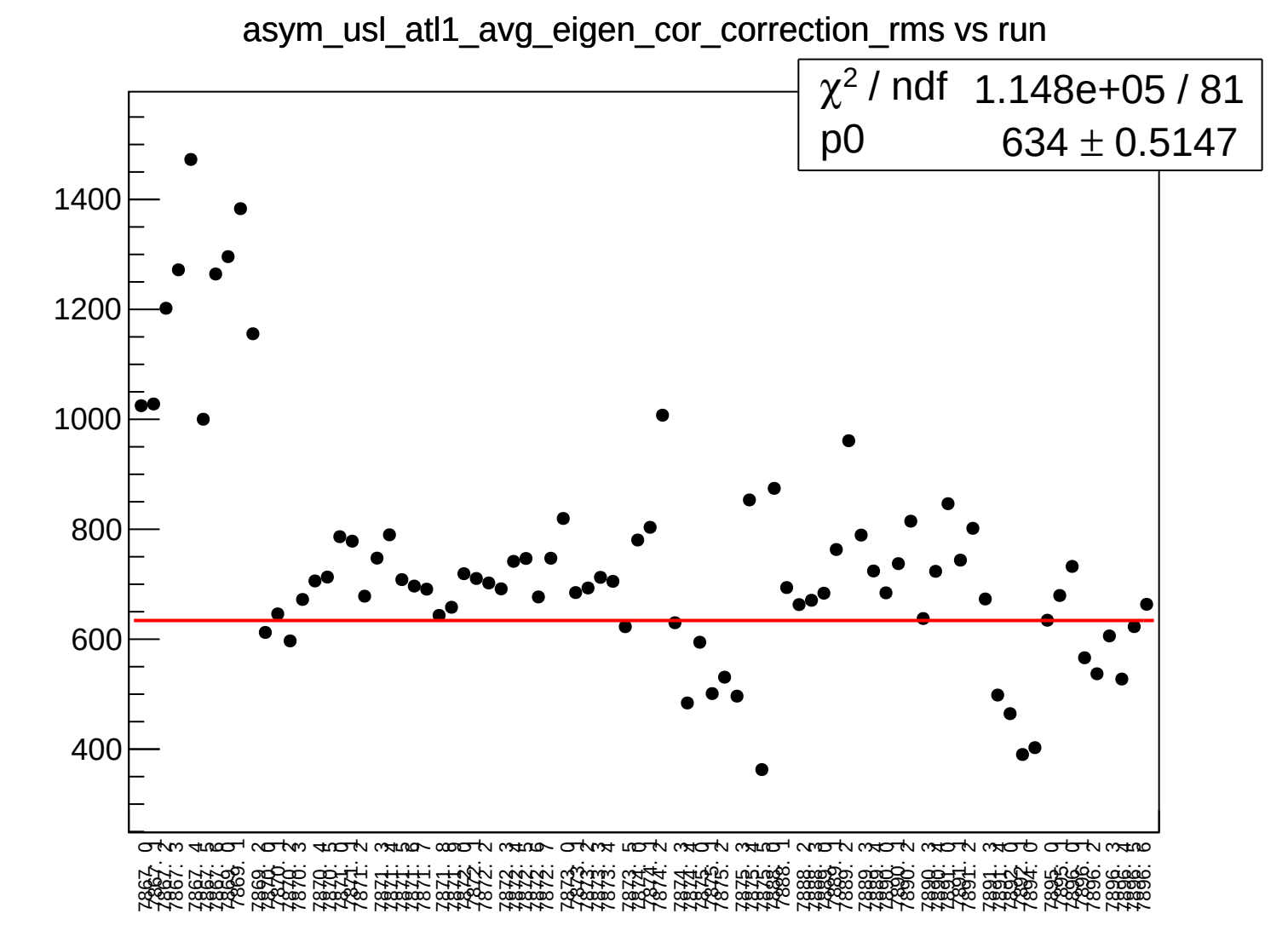

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 54.69 / 81
p0 −789.2 ± 1611
pull
Entries 82
Mean 697.2
Std Dev 0

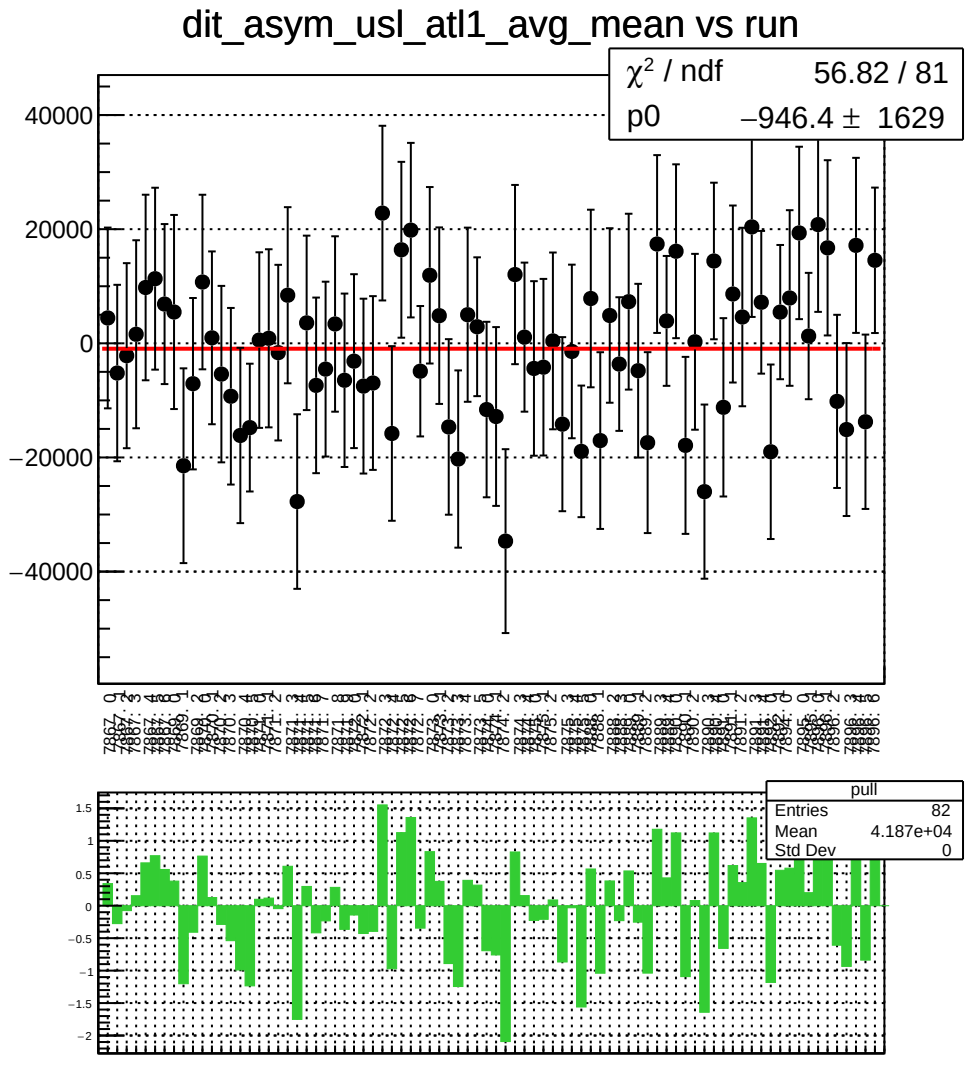

pull1D
Entries 82
Mean 0.003193
Std Dev 0.8167

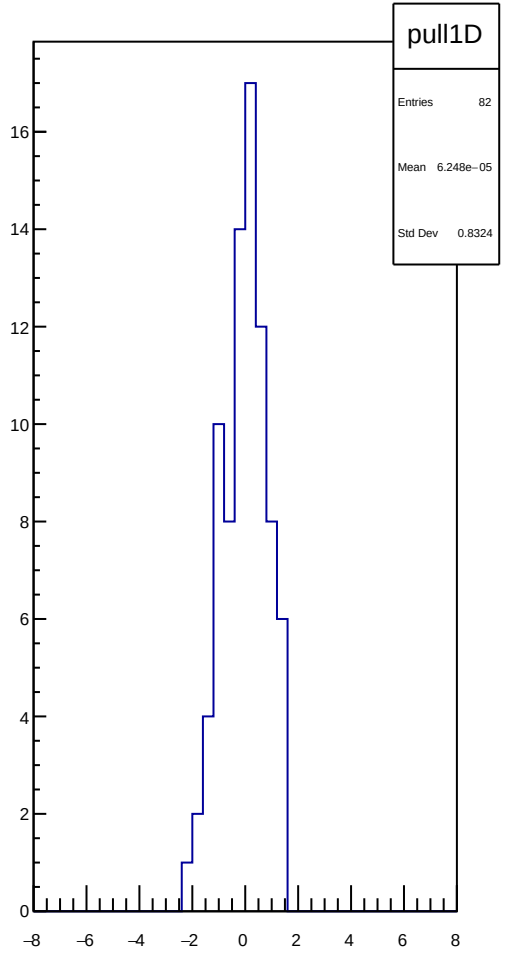

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 480.1 / 81
p0 1455 ± 1.139
1560
1540
1520
1500
1480
1460
1440
1420
1400

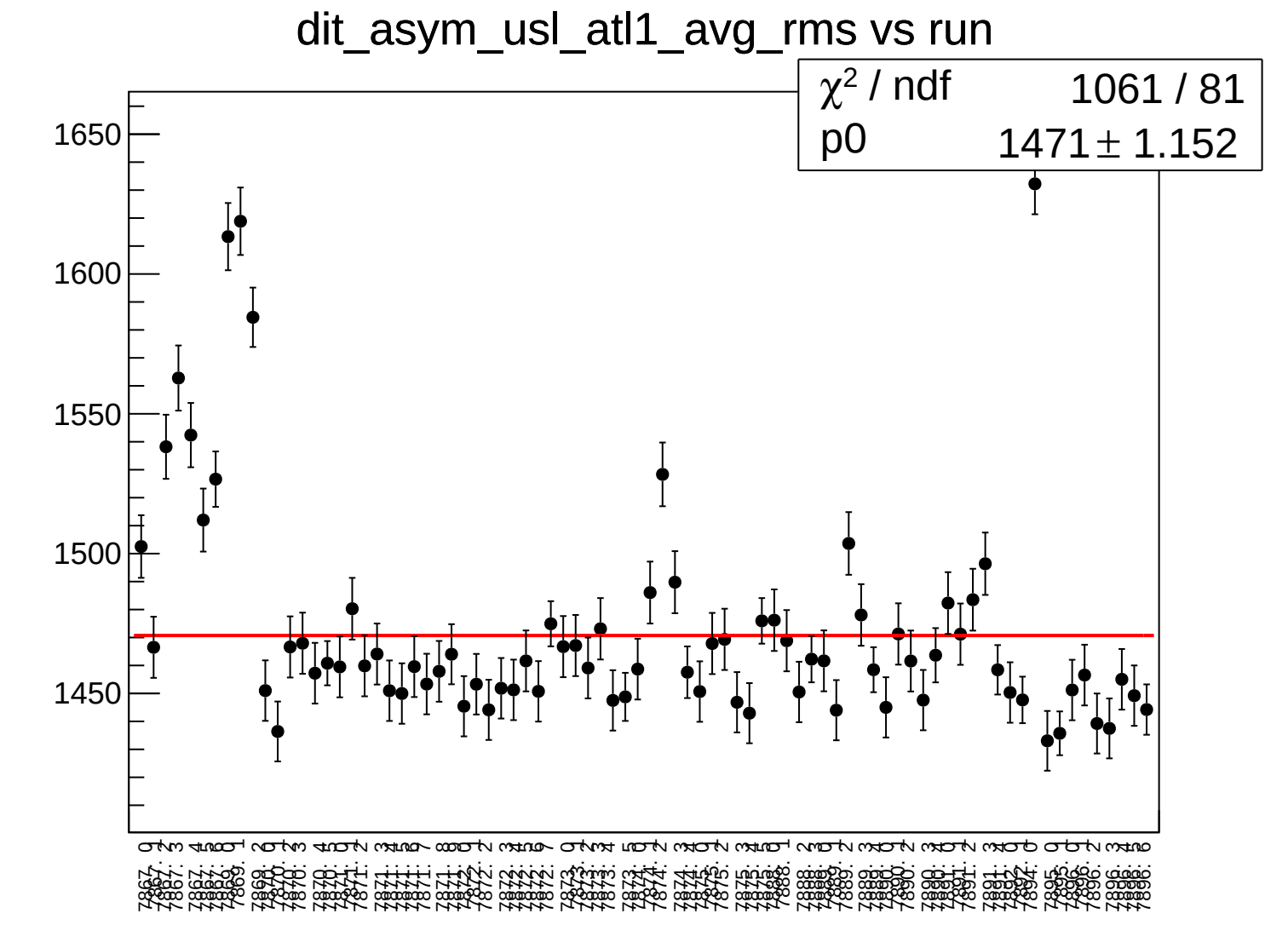

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.19 / 81
p0 247.9 ± 727.9
pull
Entries 82
Mean −61.78
Std Dev 0

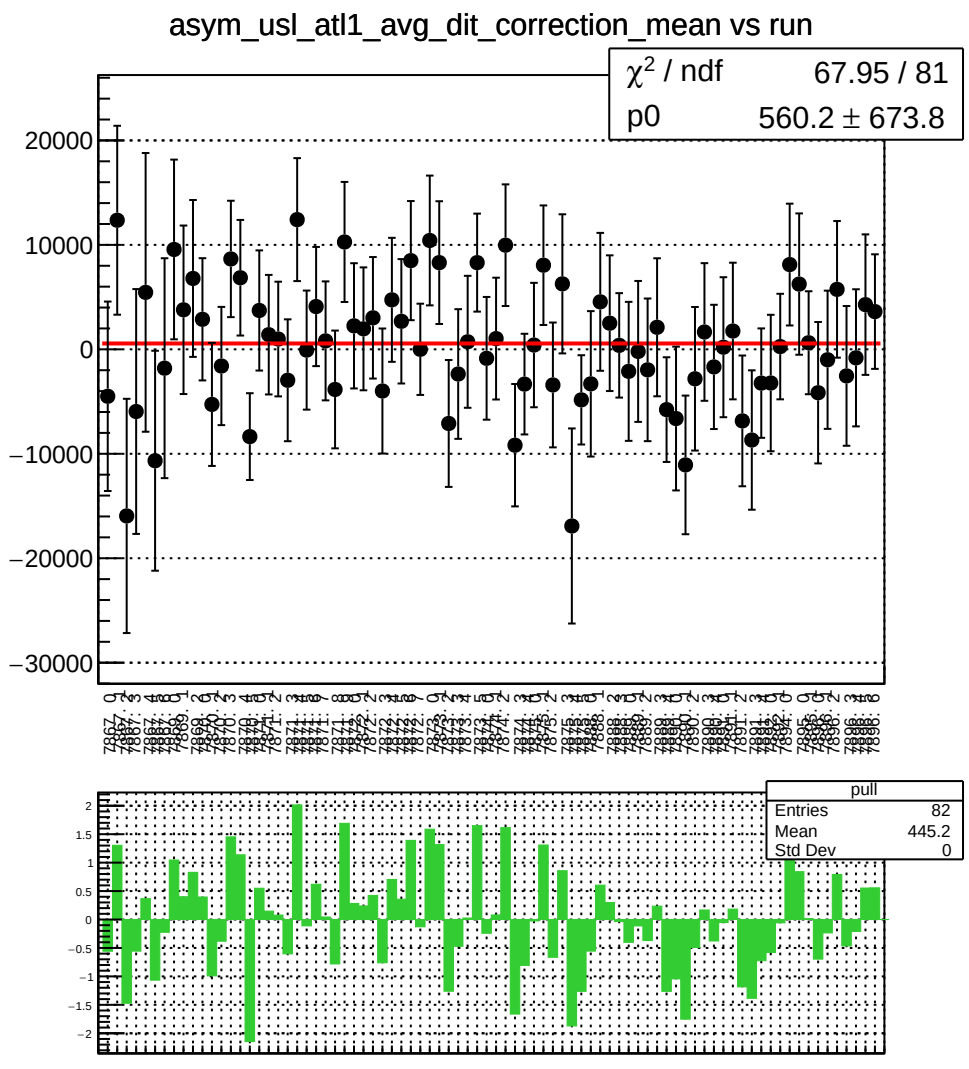

pull1D
Entries 82
Mean 0.02922
Std Dev 0.9115

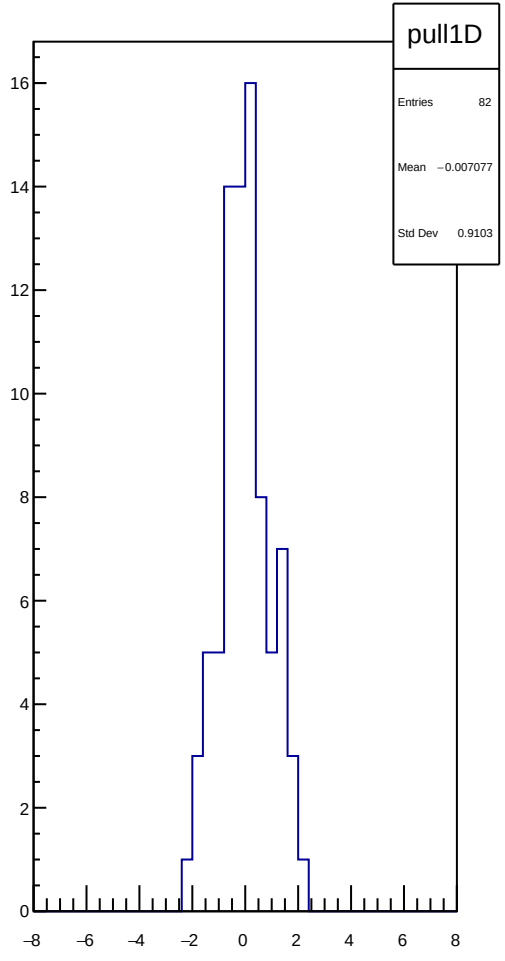

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.148e+05 / 81
p0 634 ± 0.5147
1400
1200
1000
800
600
400

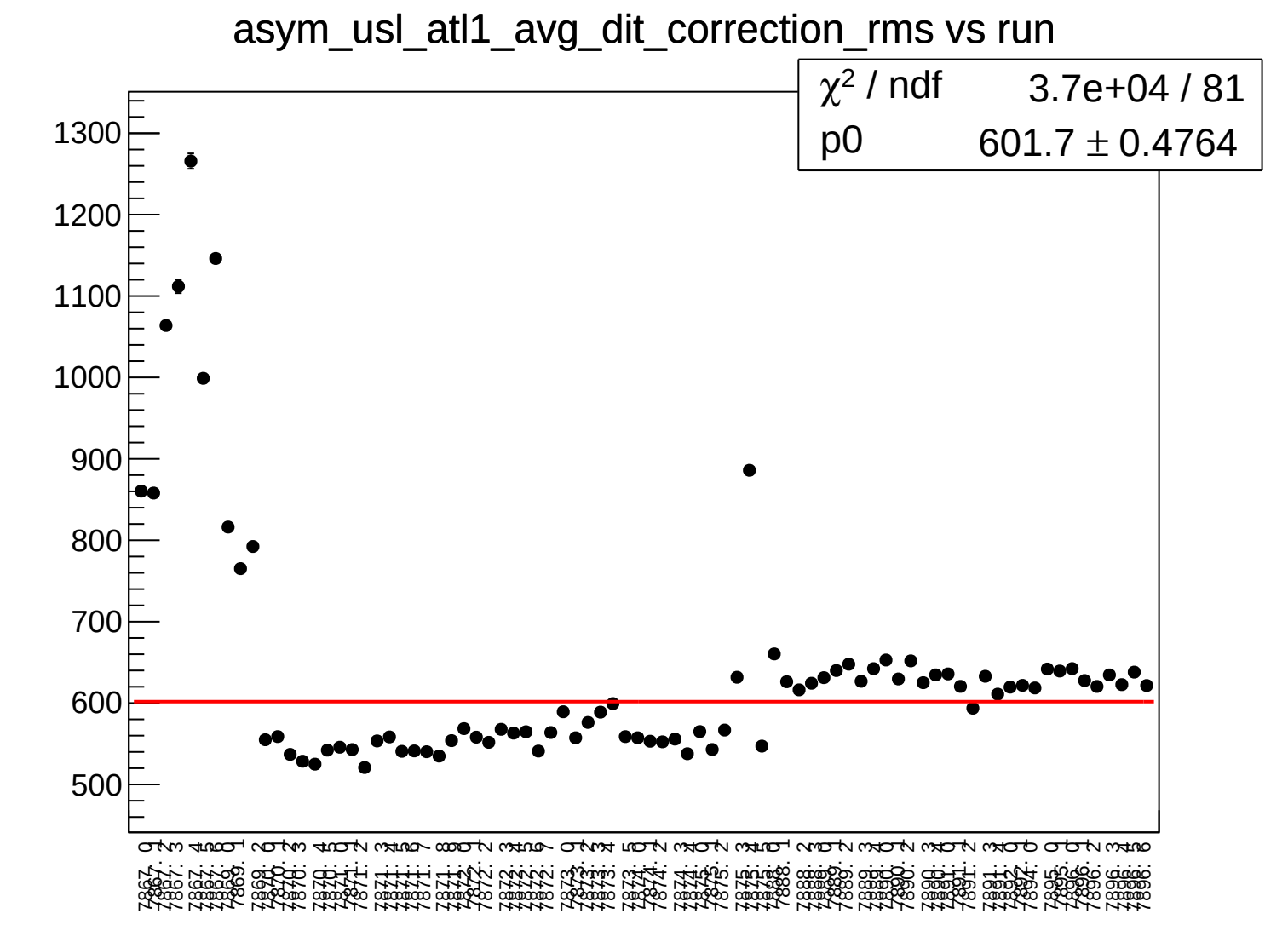

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 56.82 / 81
p0 −946.4 ± 1629
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 4.187e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

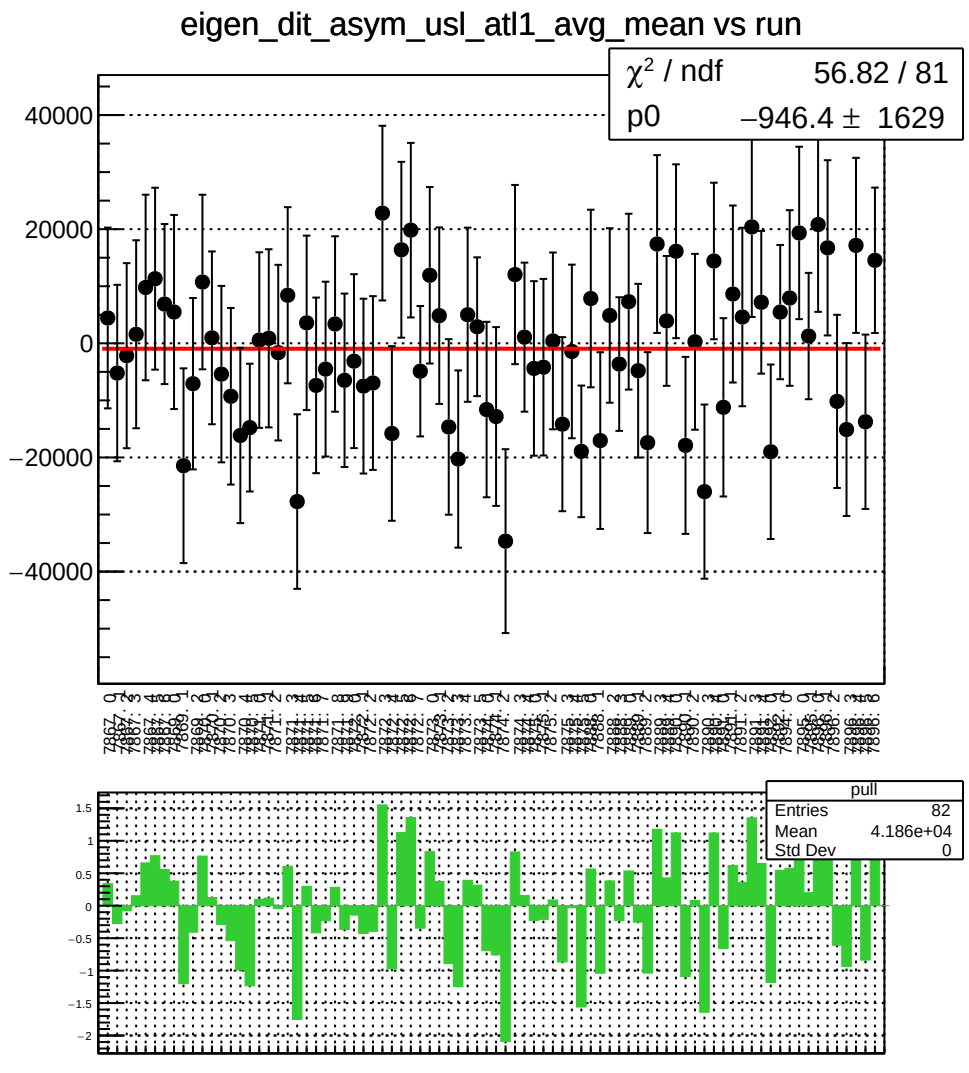

pull1D
Entries 82
Mean 6.248e−05
Std Dev 0.8324
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

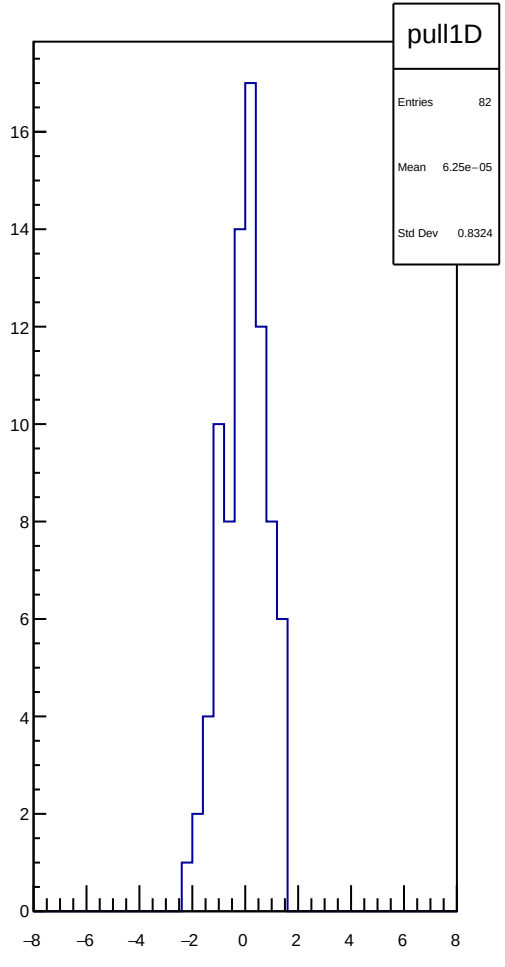

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 1061 / 81
p0 1471 ± 1.152
1650
1600
1550
1500
1450

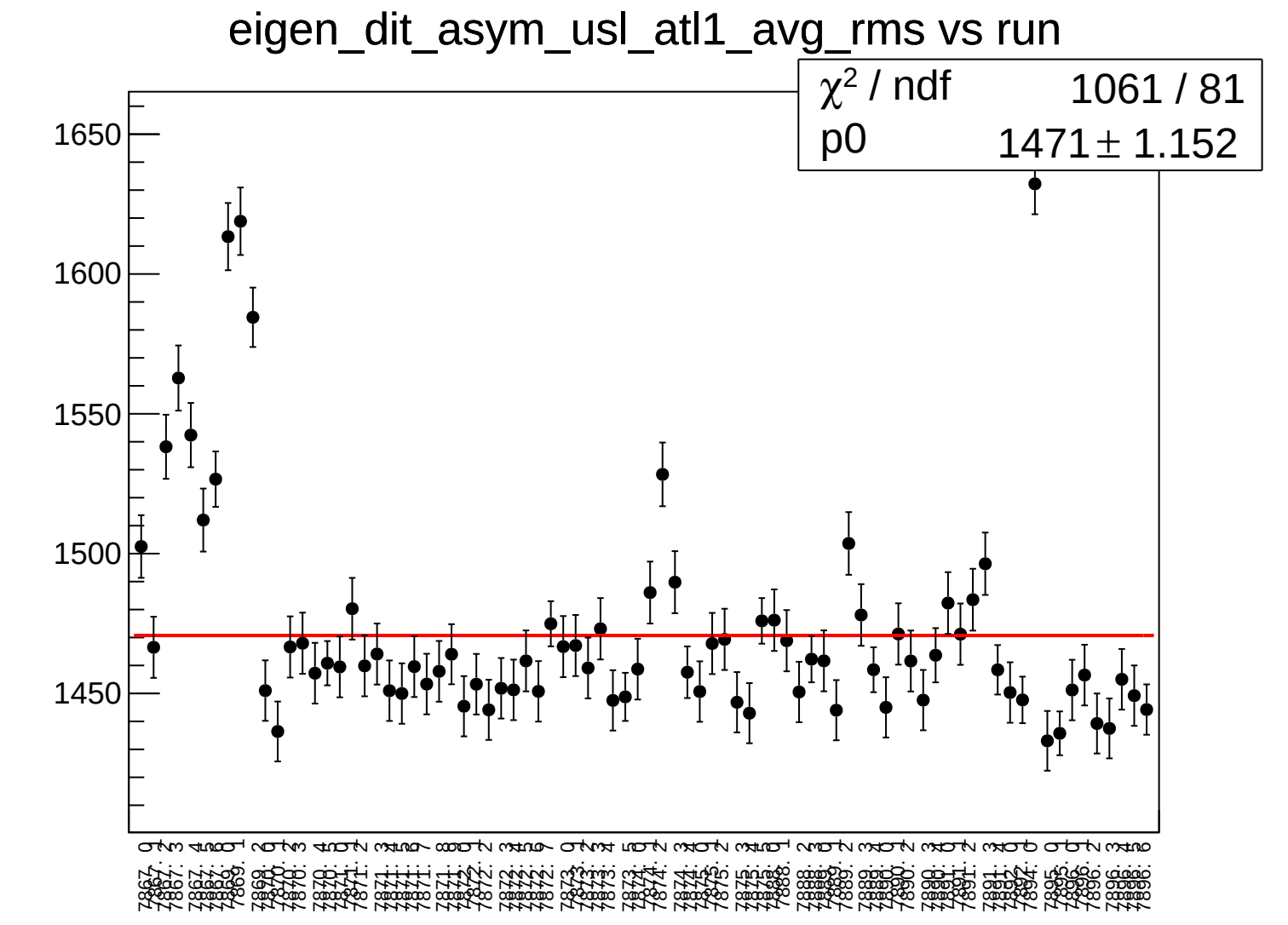

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 67.95 / 81
p0 560.2 ± 673.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 445.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

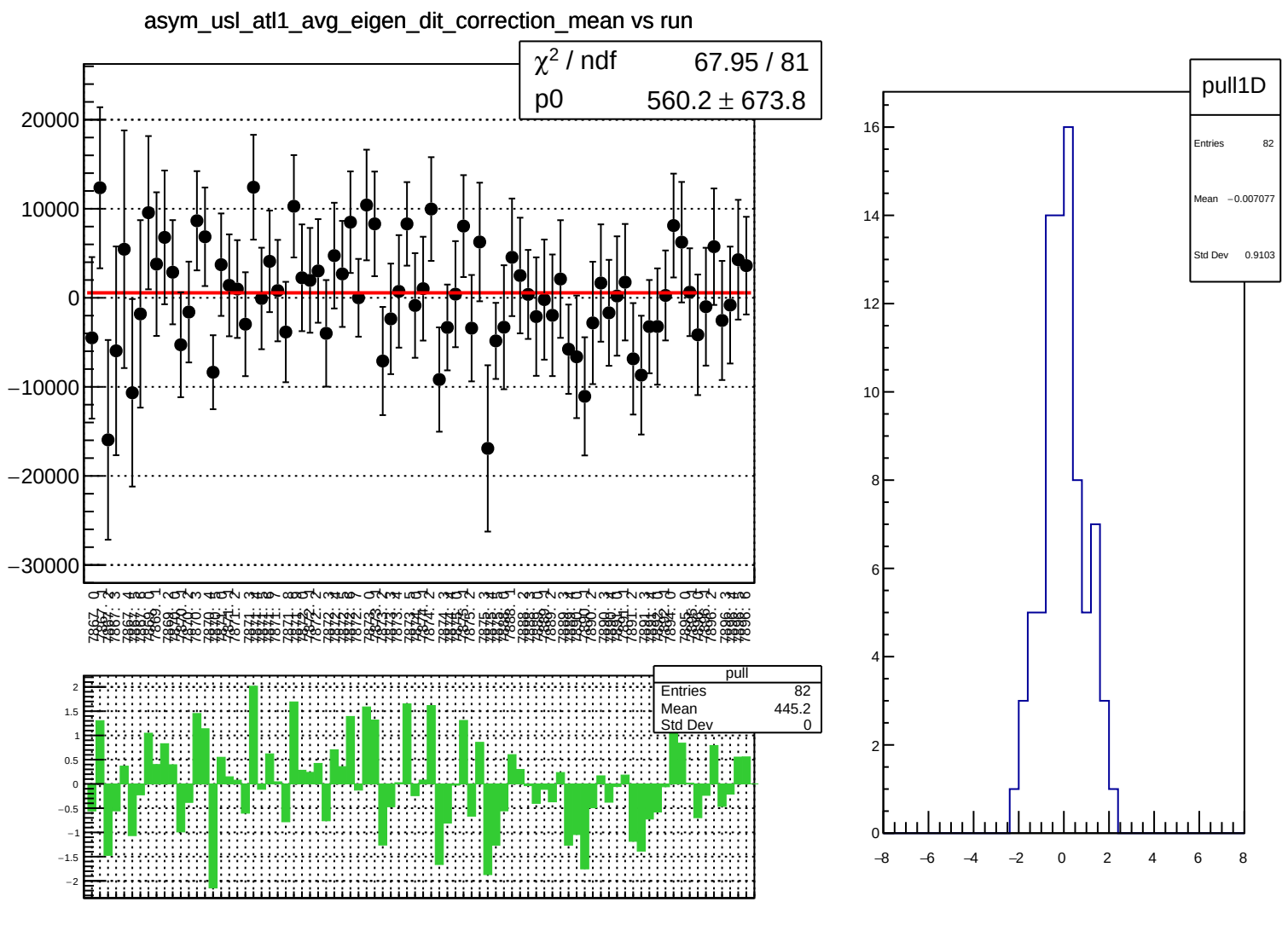

pull1D
Entries 82
Mean −0.007077
Std Dev 0.9103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

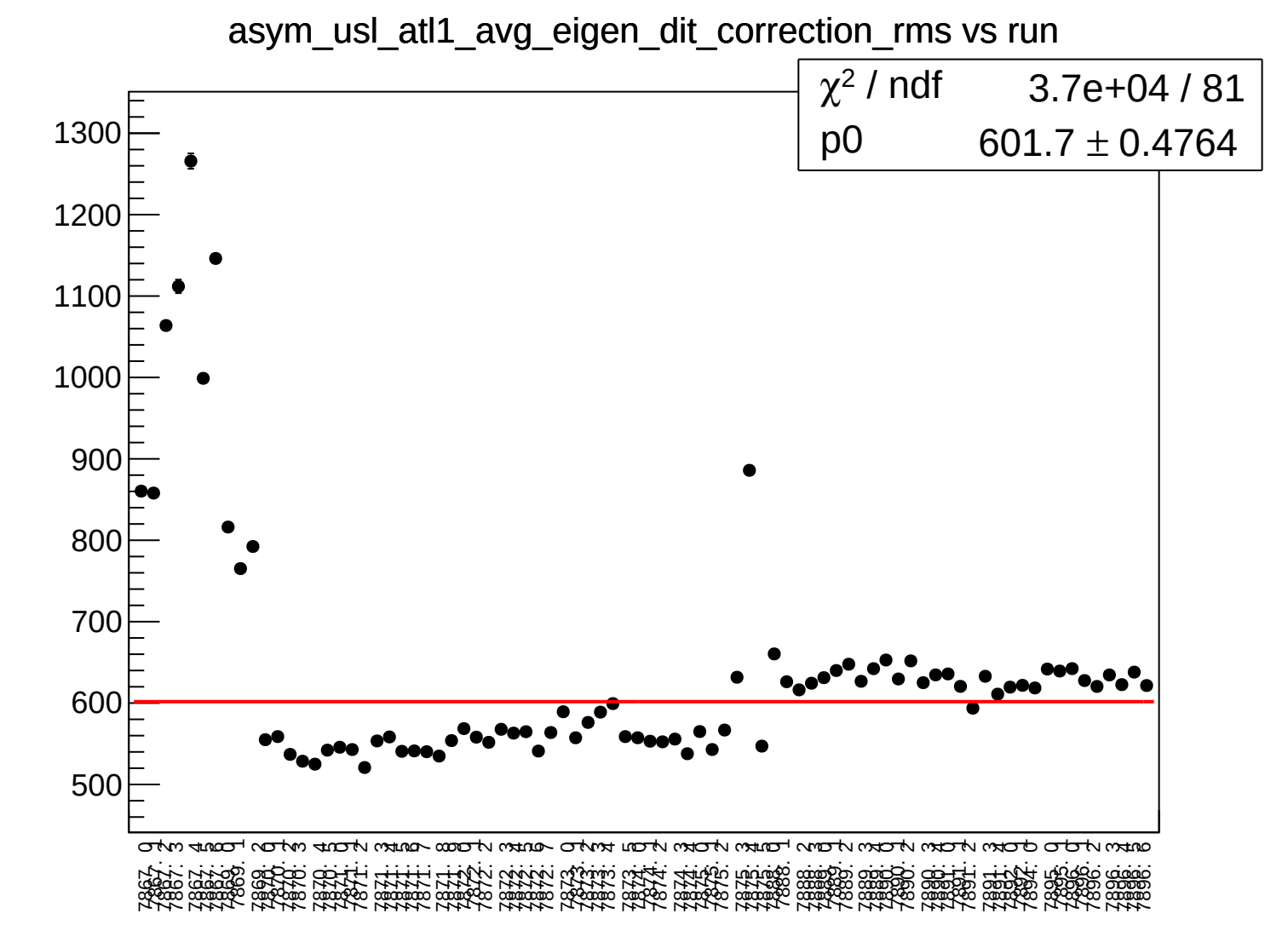

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3.7e+04 / 81
p0 601.7 ± 0.4764
1300
1200
1100
1000
900
800
700
600
500

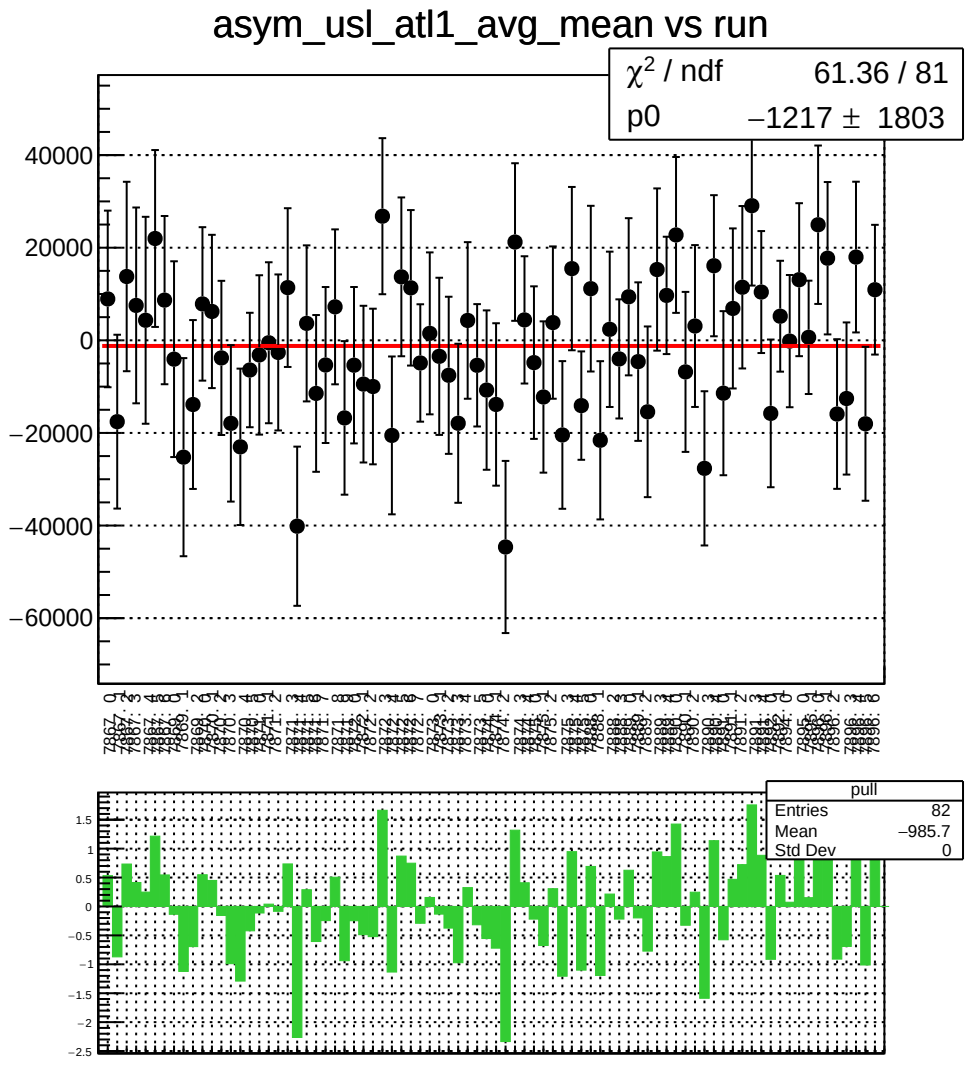

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 56.82 / 81
p0 −946.4 ± 1629
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 4.186e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

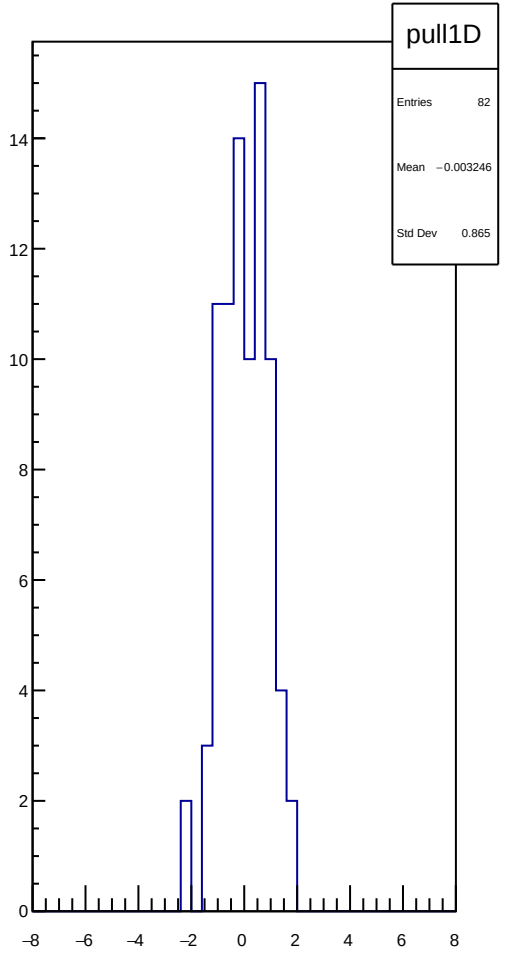

pull1D
Entries 82
Mean 6.25e−05
Std Dev 0.8324
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

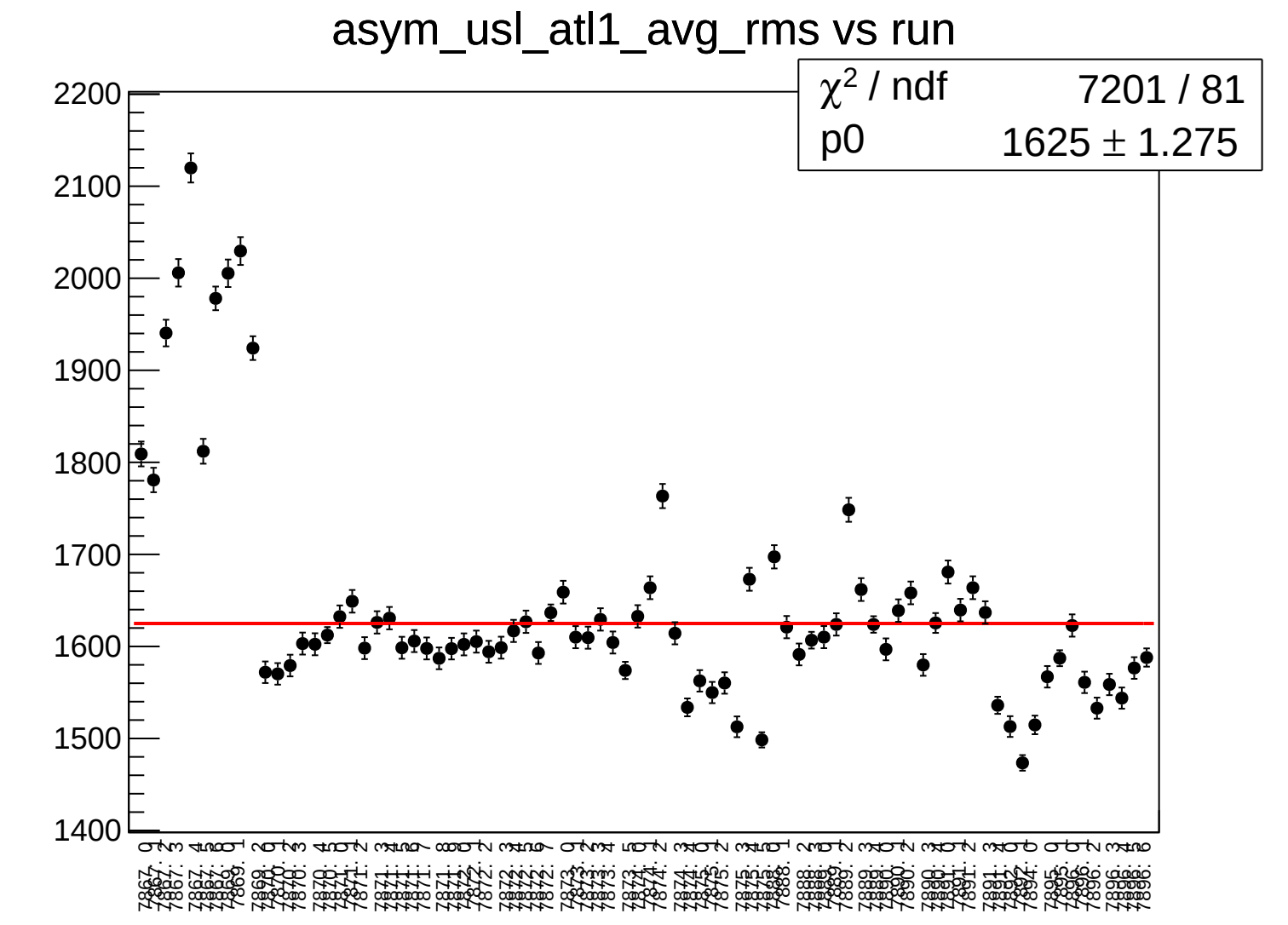

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 1061 / 81
p0 1471 ± 1.152
1650
1600
1550
1500
1450

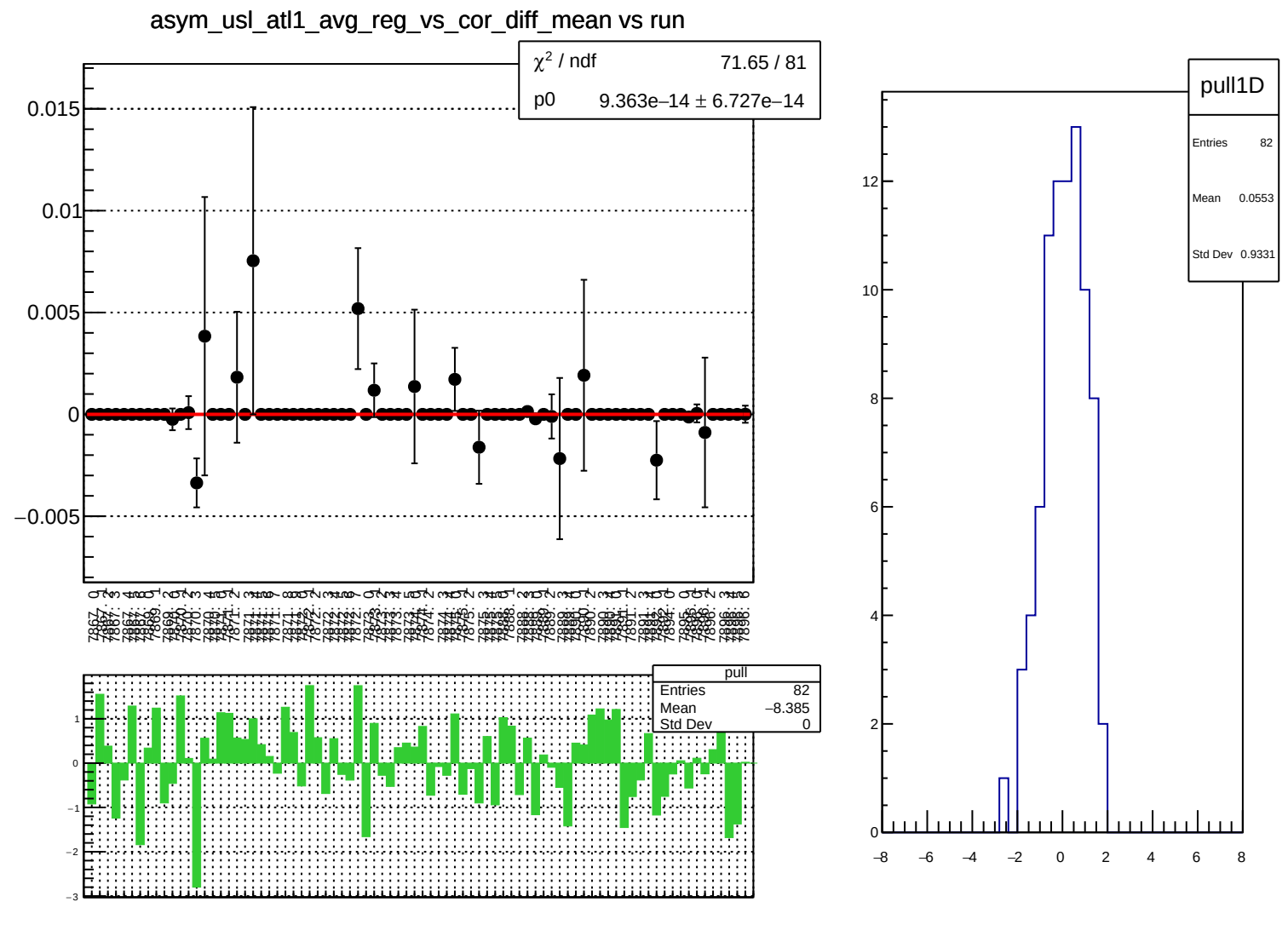

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.95 / 81
p0 560.2 ± 673.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 445.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.007077
Std Dev 0.9103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

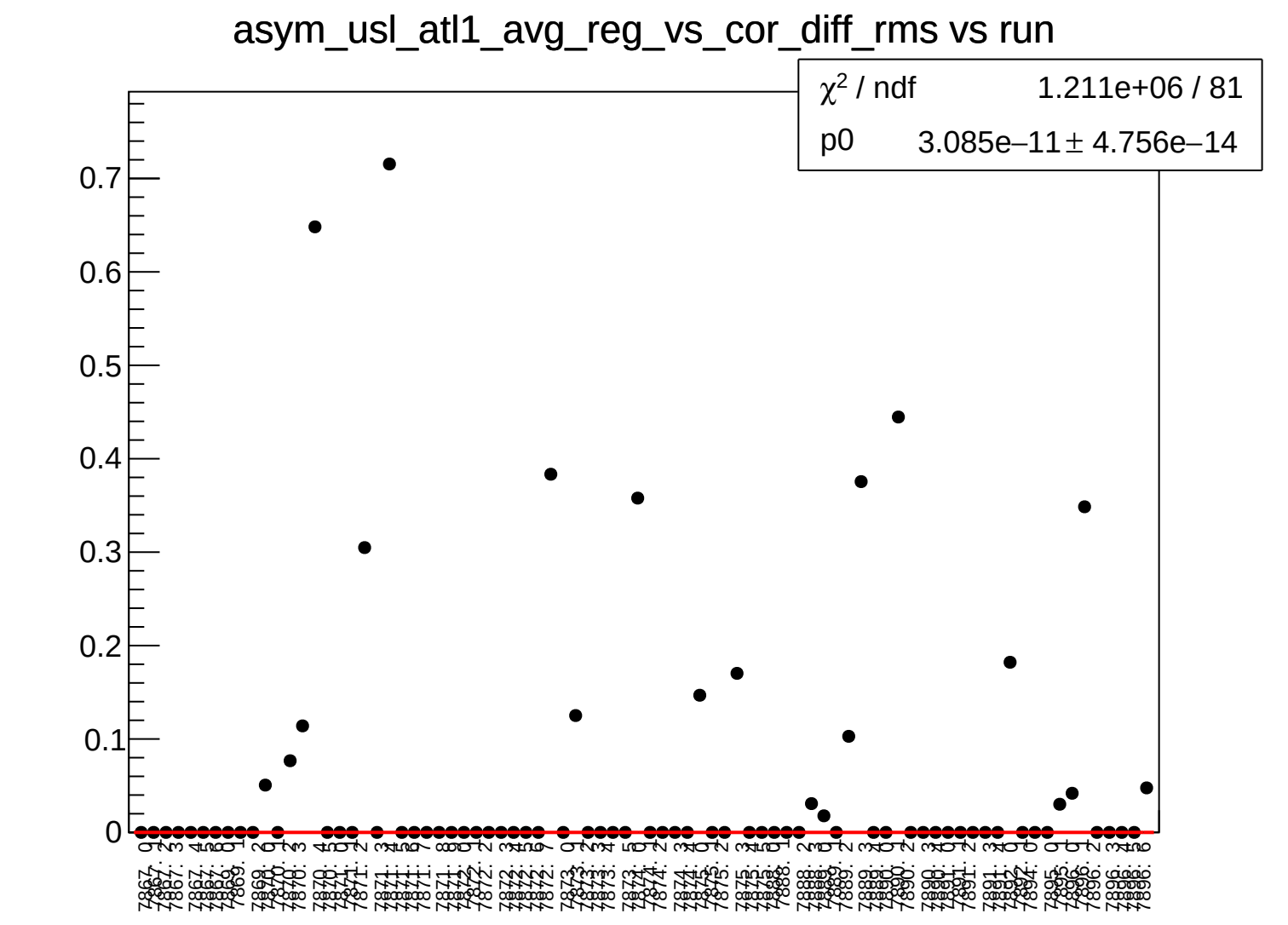

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.7e+04 / 81
p0 601.7 ± 0.4764
1300
1200
1100
1000
900
800
700
600
500

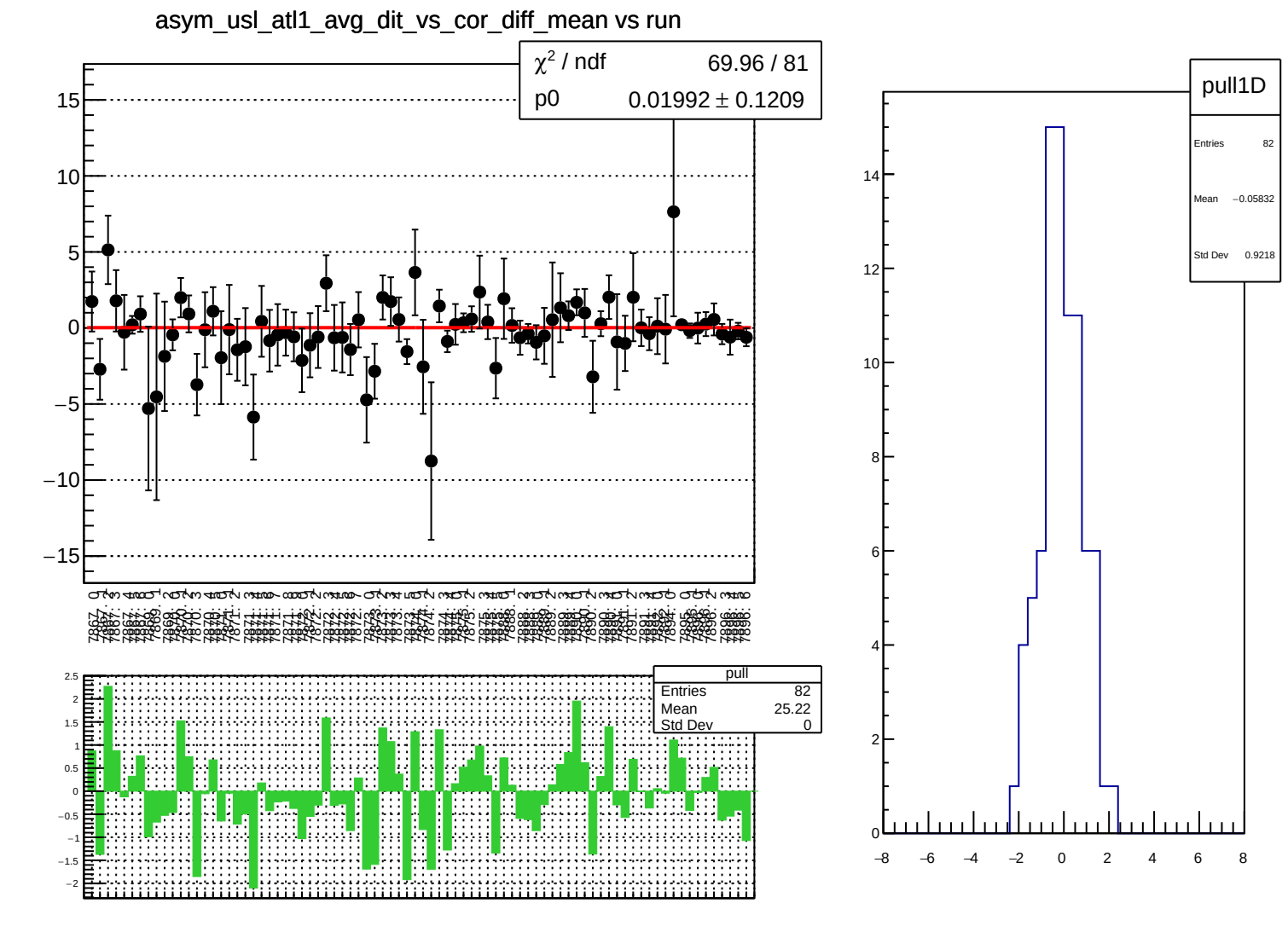

asym_usl_atl1_avg_mean vs run
χ² / ndf 61.36 / 81
p0 −1217 ± 1803
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −985.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

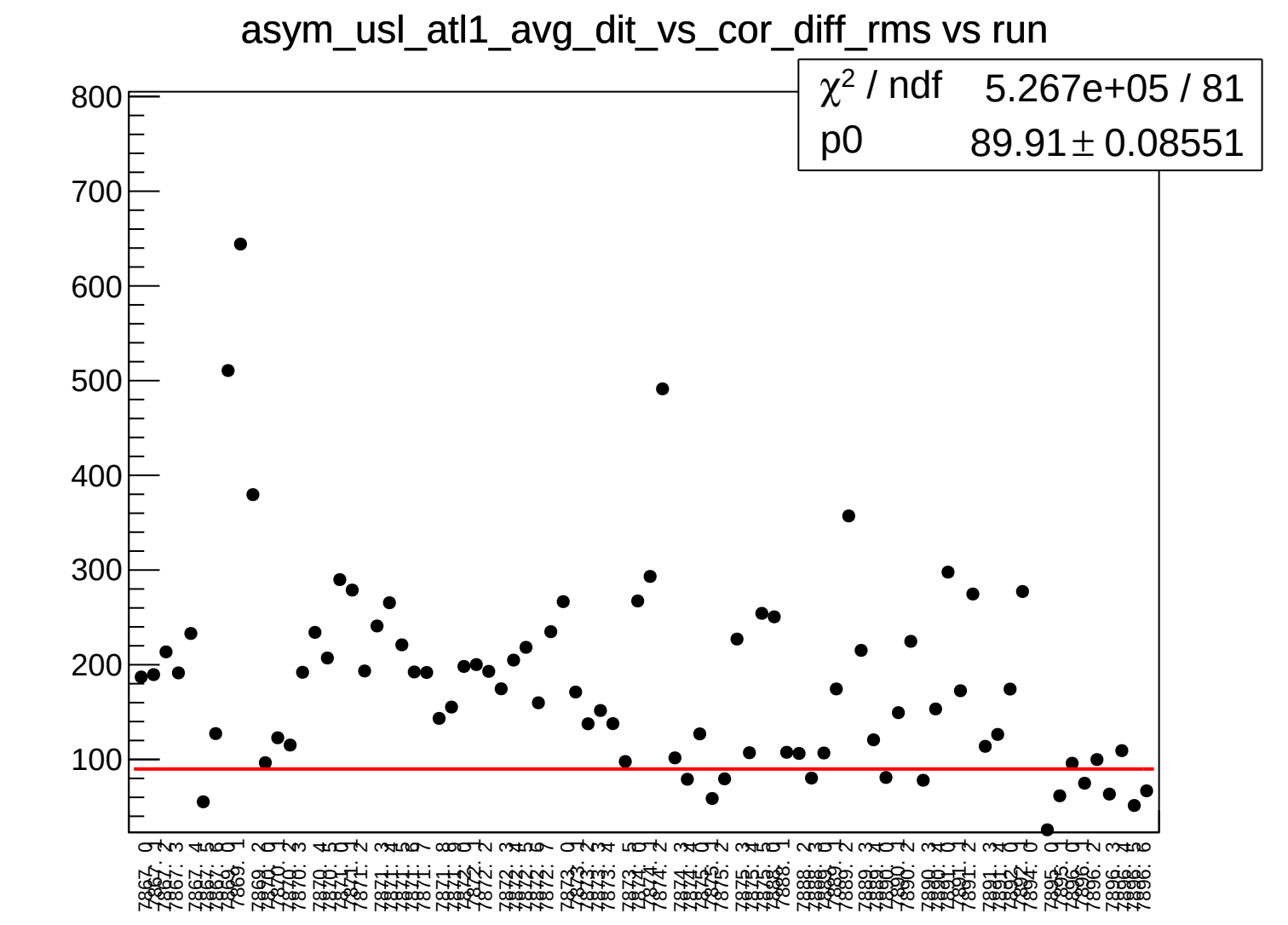

pull1D
Entries 82
Mean −0.003246
Std Dev 0.865
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

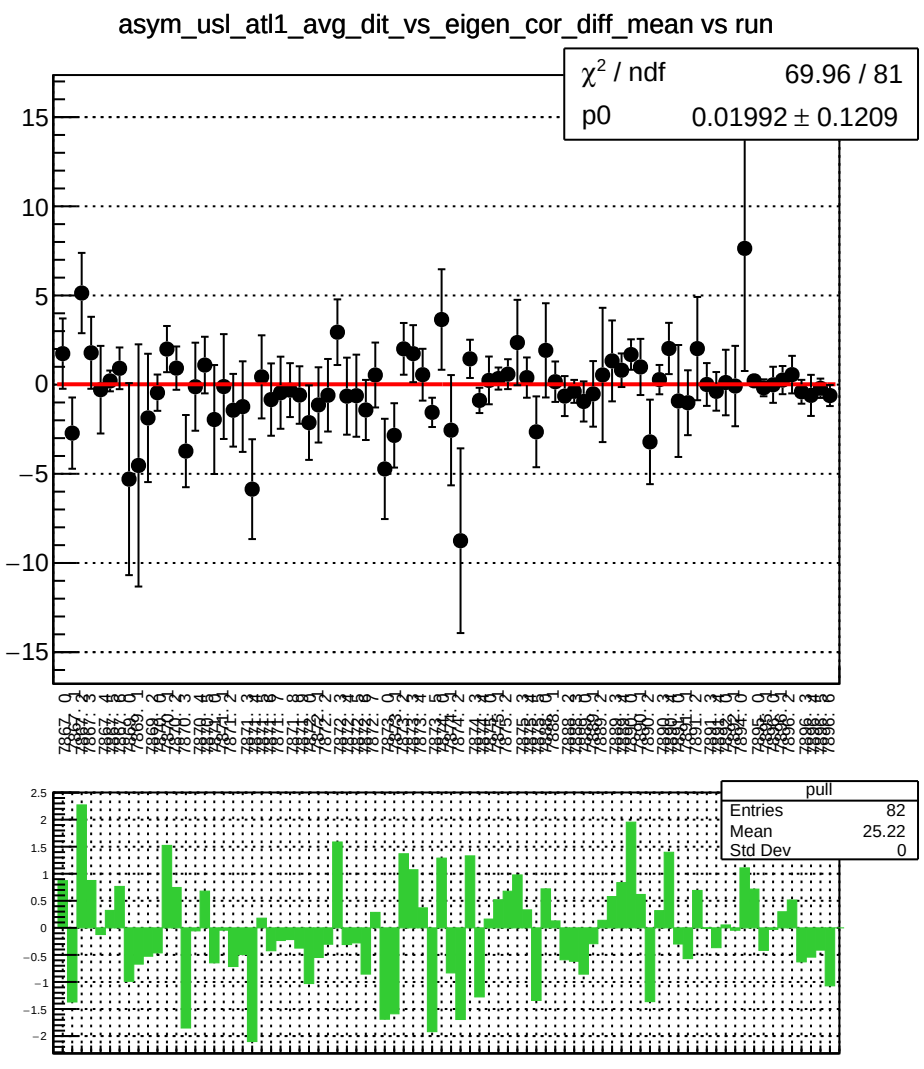

asym_usl_atl1_avg_rms vs run
χ² / ndf 7201 / 81
p0 1625 ± 1.275
2200
2100
2000
1900
1800
1700
1600
1500
1400

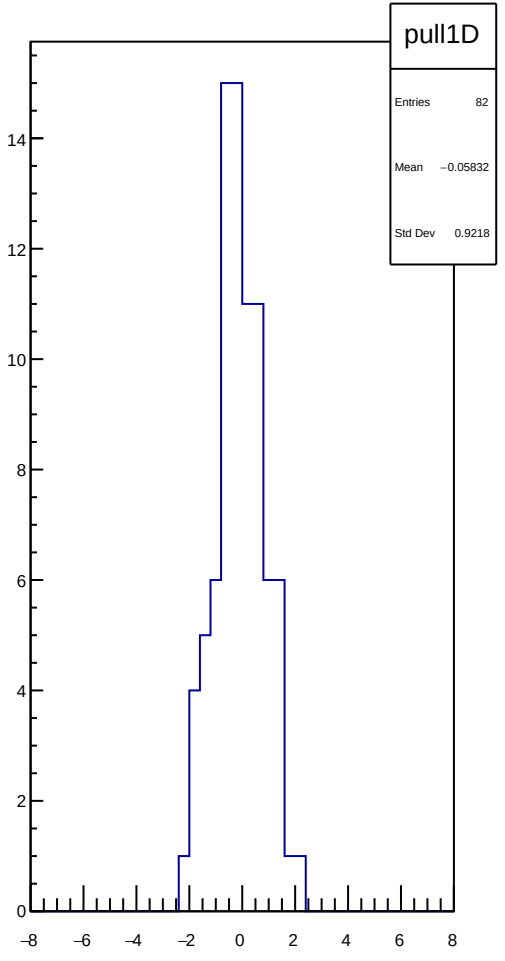

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.65 / 81
p0 9.363e−14 ± 6.727e−14
0.015
0.01
0.005
0
−0.005
pull
Entries 82
Mean −8.385
Std Dev 0
pull1D
Entries 82
Mean 0.0553
Std Dev 0.9331

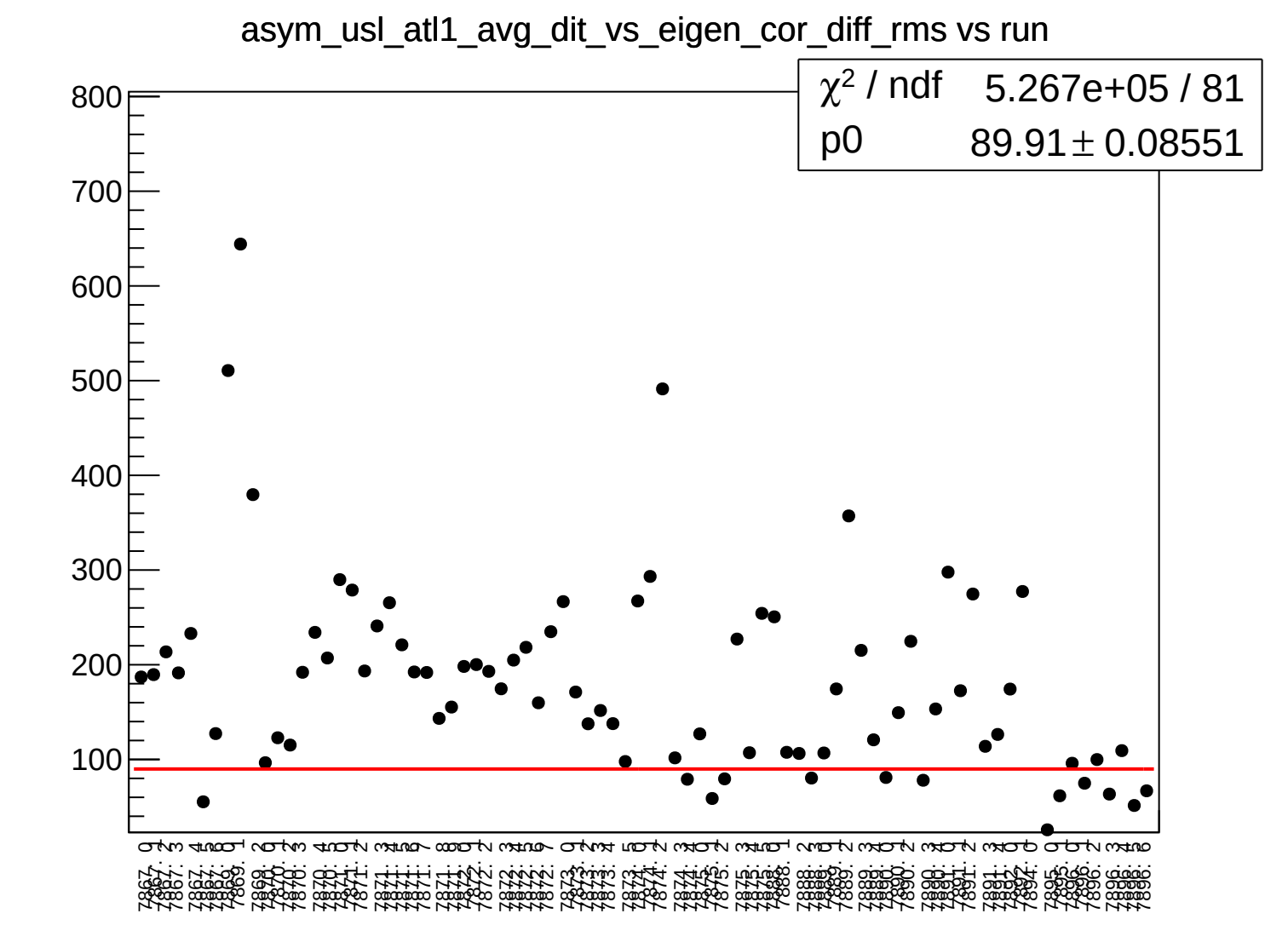

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.211e+06 / 81
p0 3.085e−11 ± 4.756e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

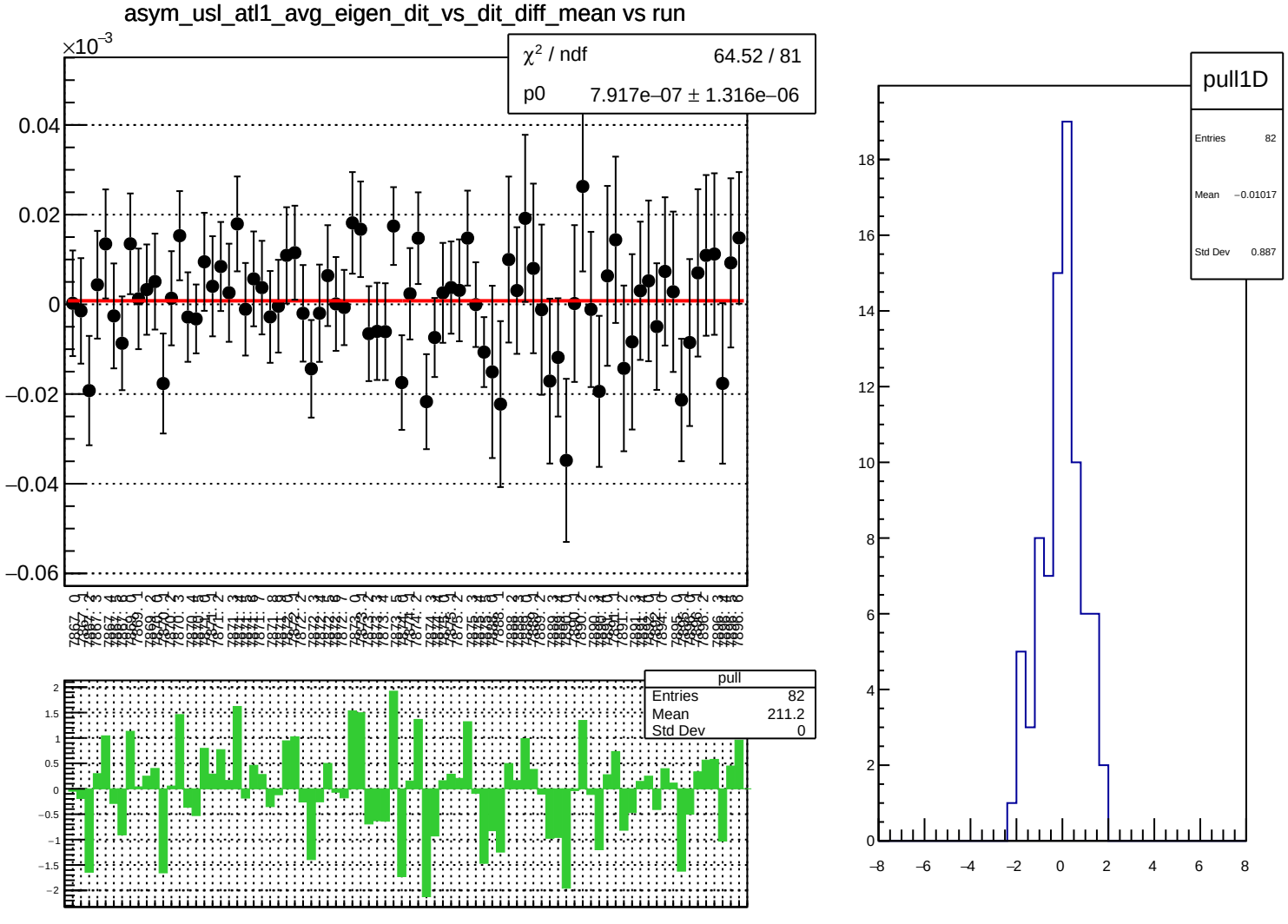

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.96 / 81
p0 0.01992 ± 0.1209
pull
Entries 82
Mean 25.22
Std Dev 0
pull1D
Entries 82
Mean −0.05832
Std Dev 0.9218

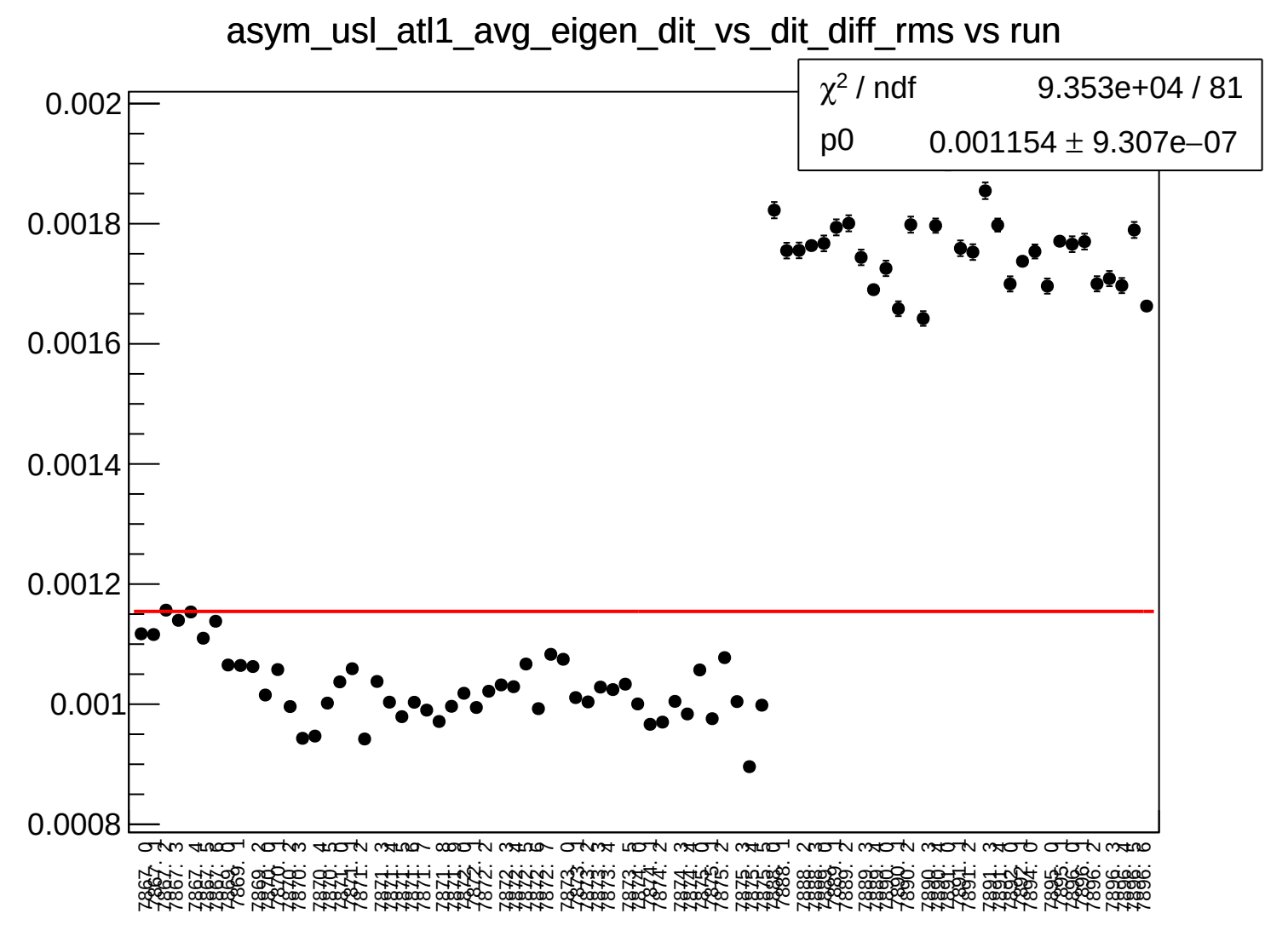

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.267e+05 / 81
p0 89.91 ± 0.08551
800
700
600
500
400
300
200
100

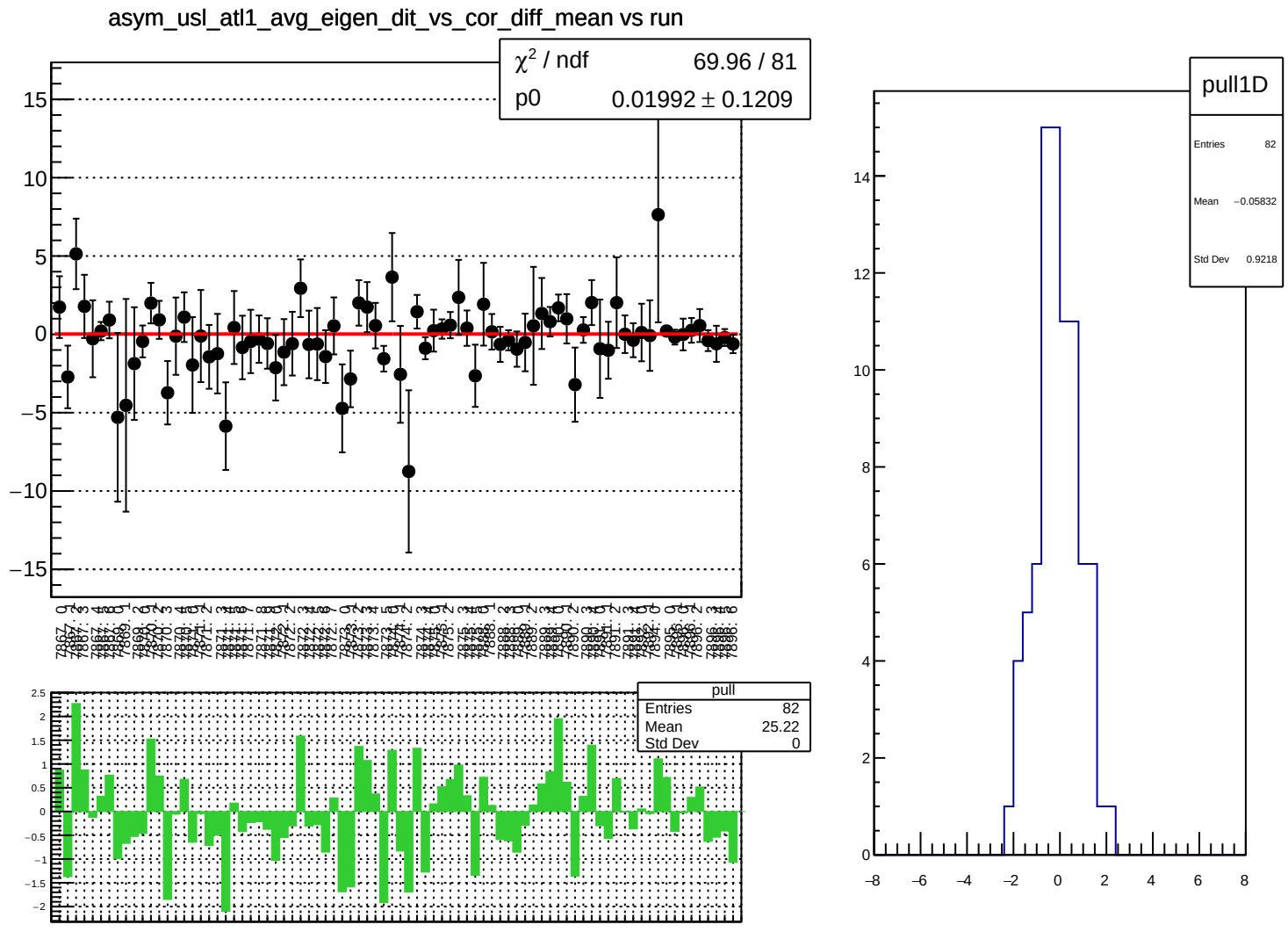

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.96 / 81
p0 0.01992 ± 0.1209
pull
Entries 82
Mean 25.22
Std Dev 0

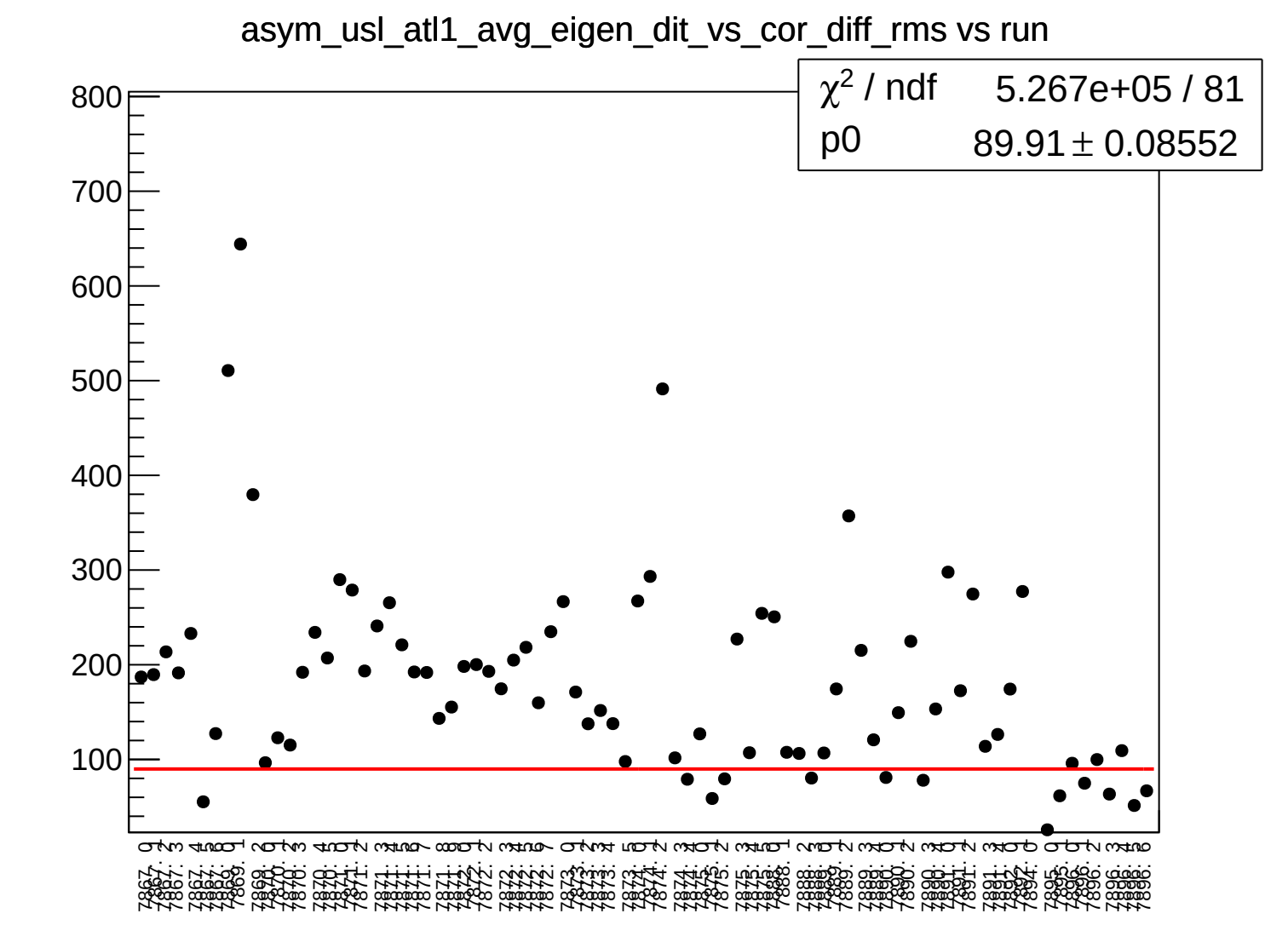

pull1D
Entries 82
Mean −0.05832
Std Dev 0.9218

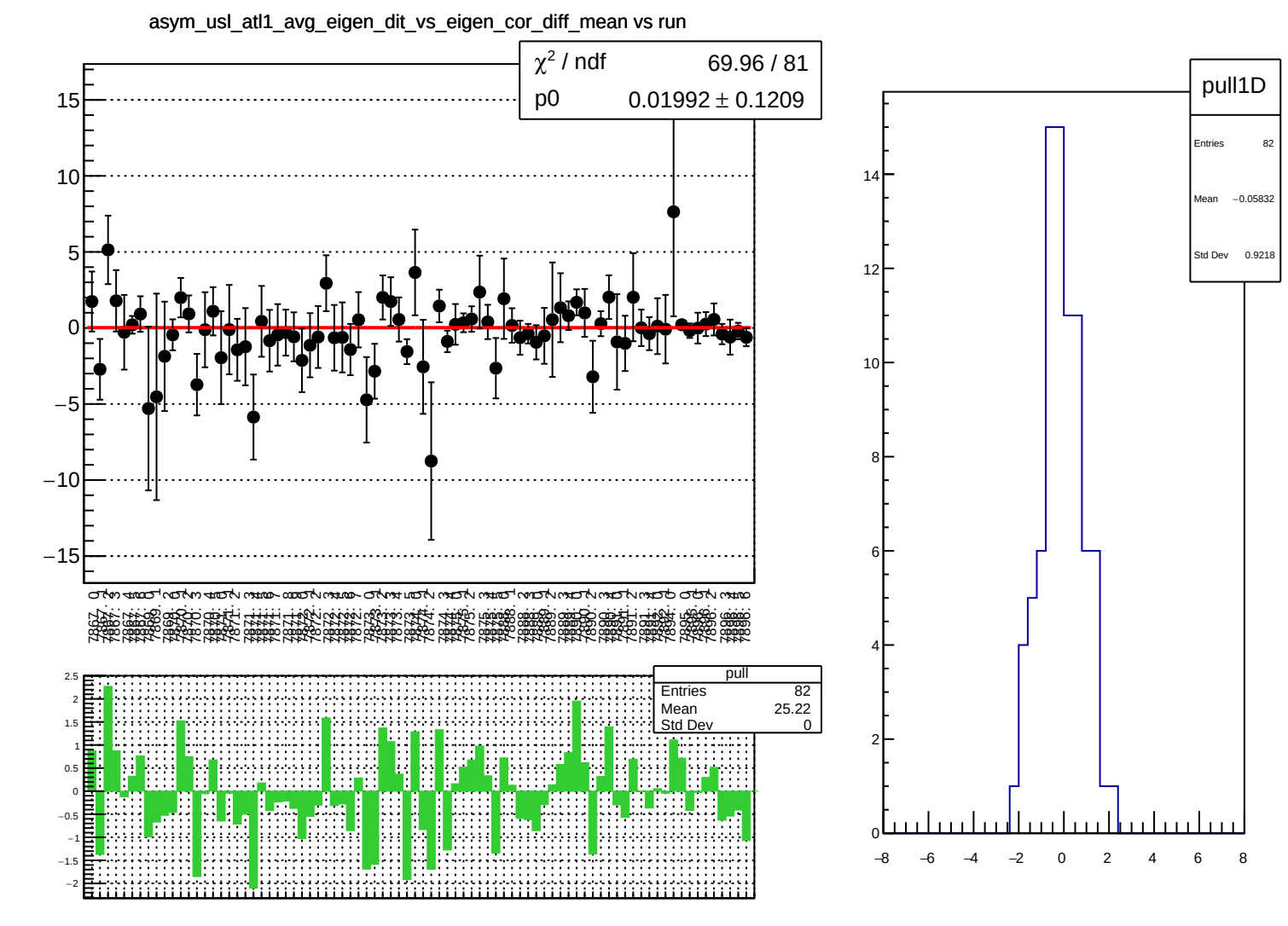

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.267e+05 / 81
p0 89.91 ± 0.08551
800
700
600
500
400
300
200
100

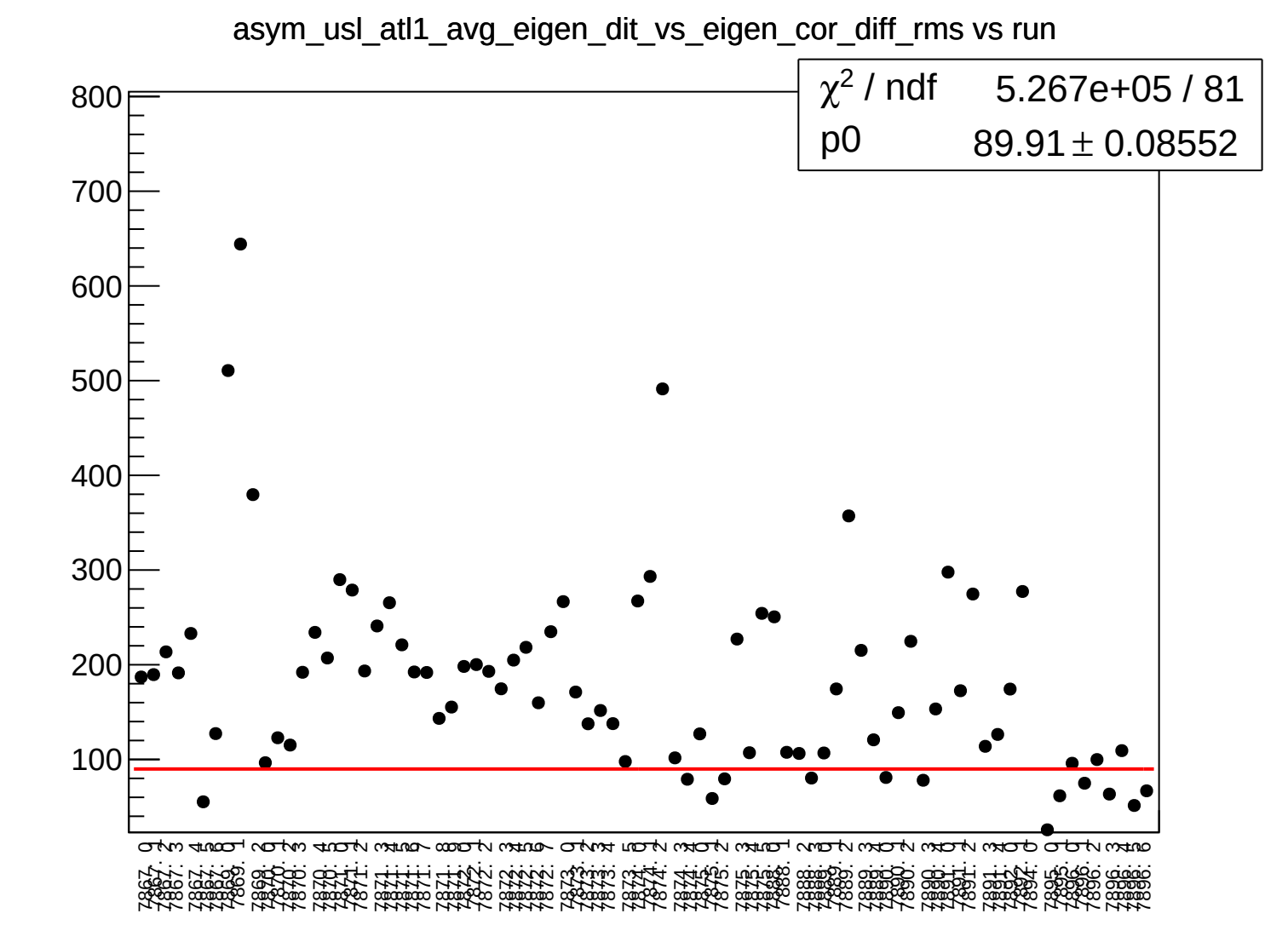

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.52 / 81
p0 7.917e−07 ± 1.316e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 82
Mean 211.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01017
Std Dev 0.887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

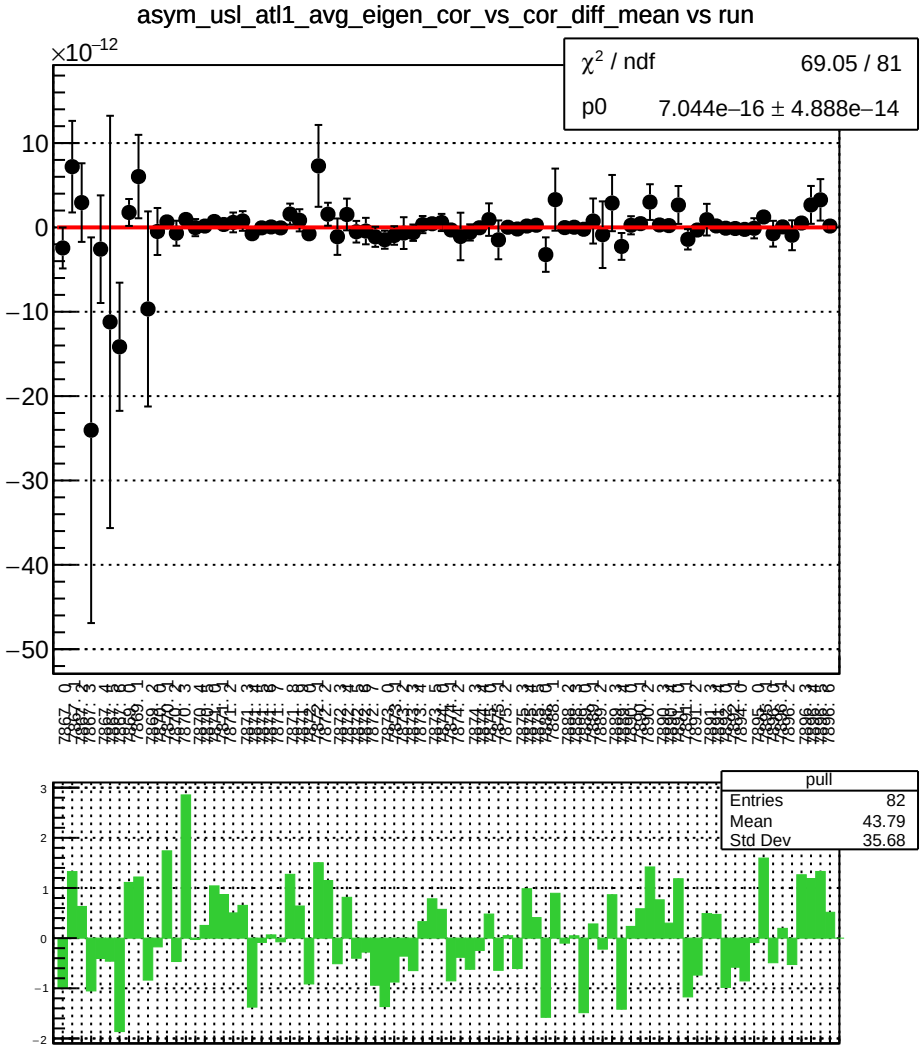

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.353e+04 / 81
p0 0.001154 ± 9.307e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

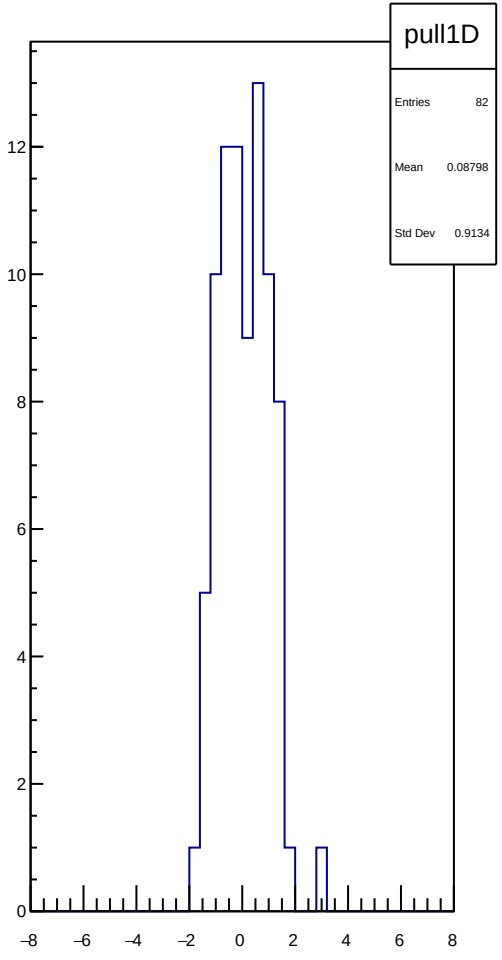

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.96 / 81
p0 0.01992 ± 0.1209
pull
Entries 82
Mean 25.22
Std Dev 0
pull1D
Entries 82
Mean −0.05832
Std Dev 0.9218

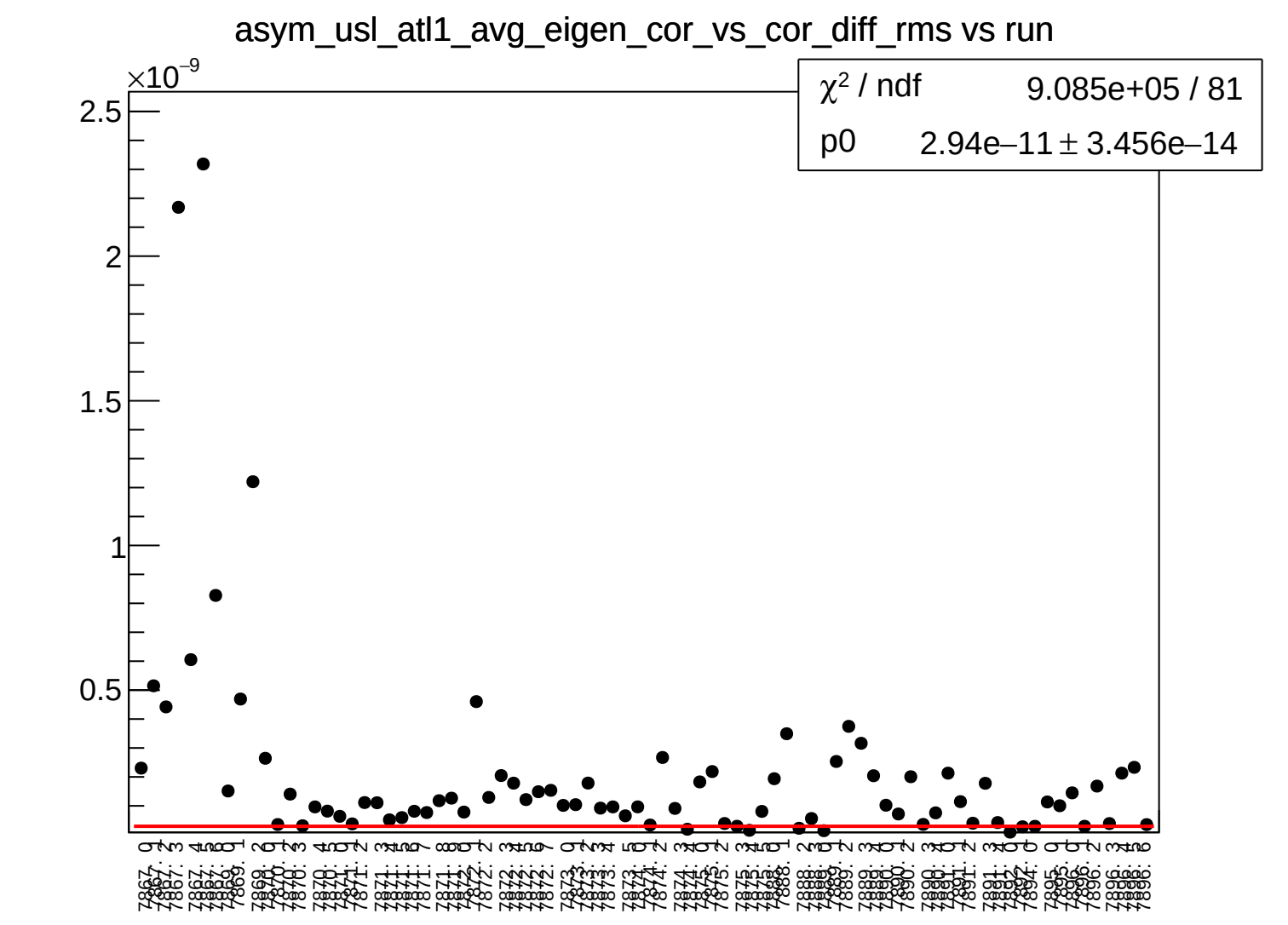

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.267e+05 / 81
p0 89.91 ± 0.08552
800
700
600
500
400
300
200
100

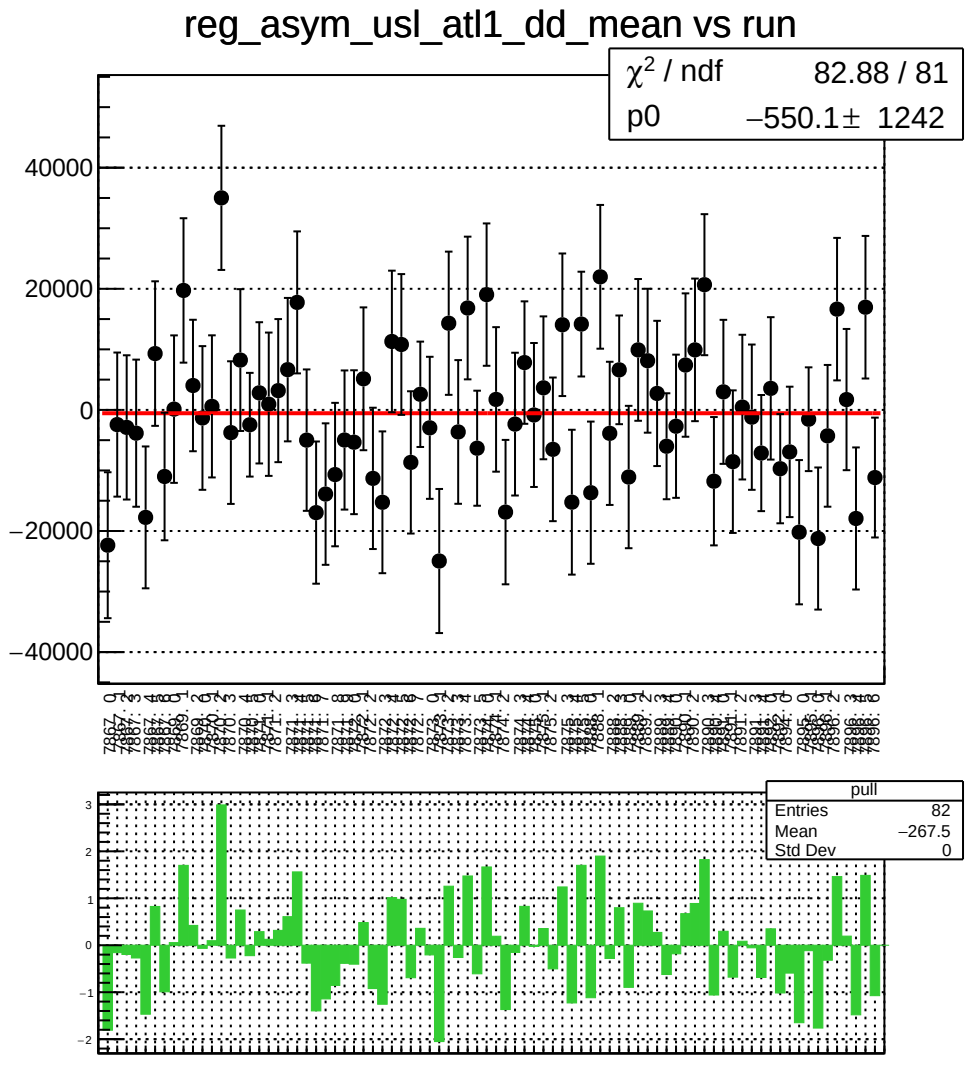

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.96 / 81
p0 0.01992 ± 0.1209
pull
Entries 82
Mean 25.22
Std Dev 0
pull1D
Entries 82
Mean −0.05832
Std Dev 0.9218

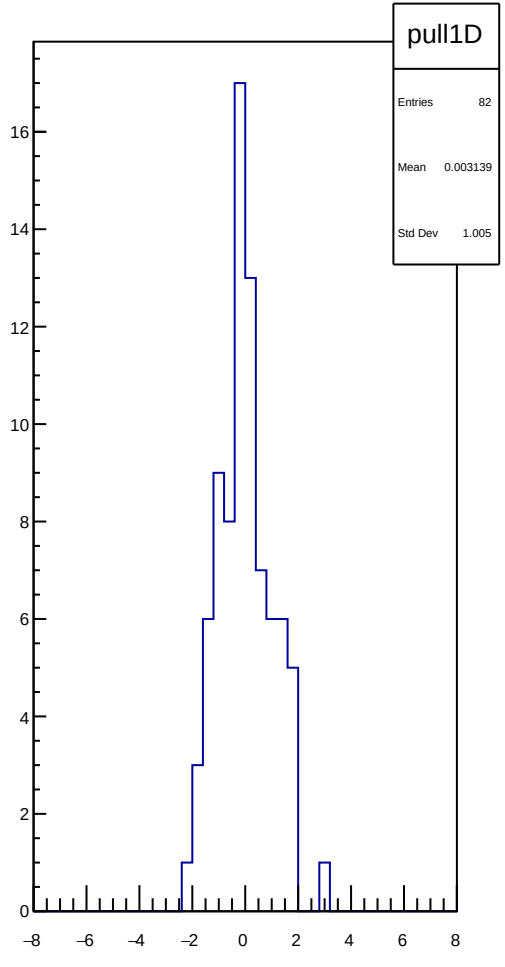

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.267e+05 / 81
p0 89.91 ± 0.08552
800
700
600
500
400
300
200
100

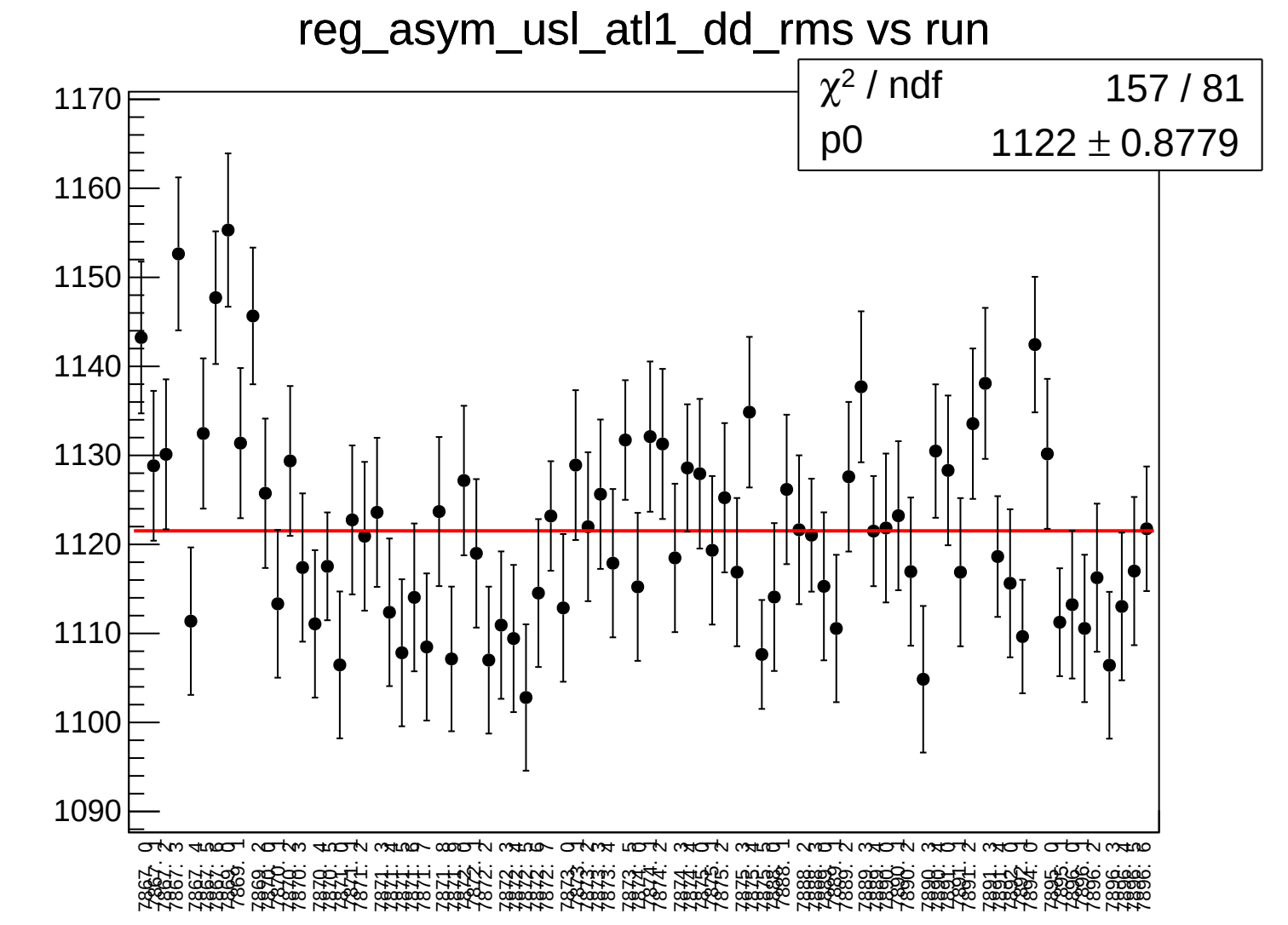

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.05 / 81
p0 7.044e−16 ± 4.888e−14
pull
Entries 82
Mean 43.79
Std Dev 35.68

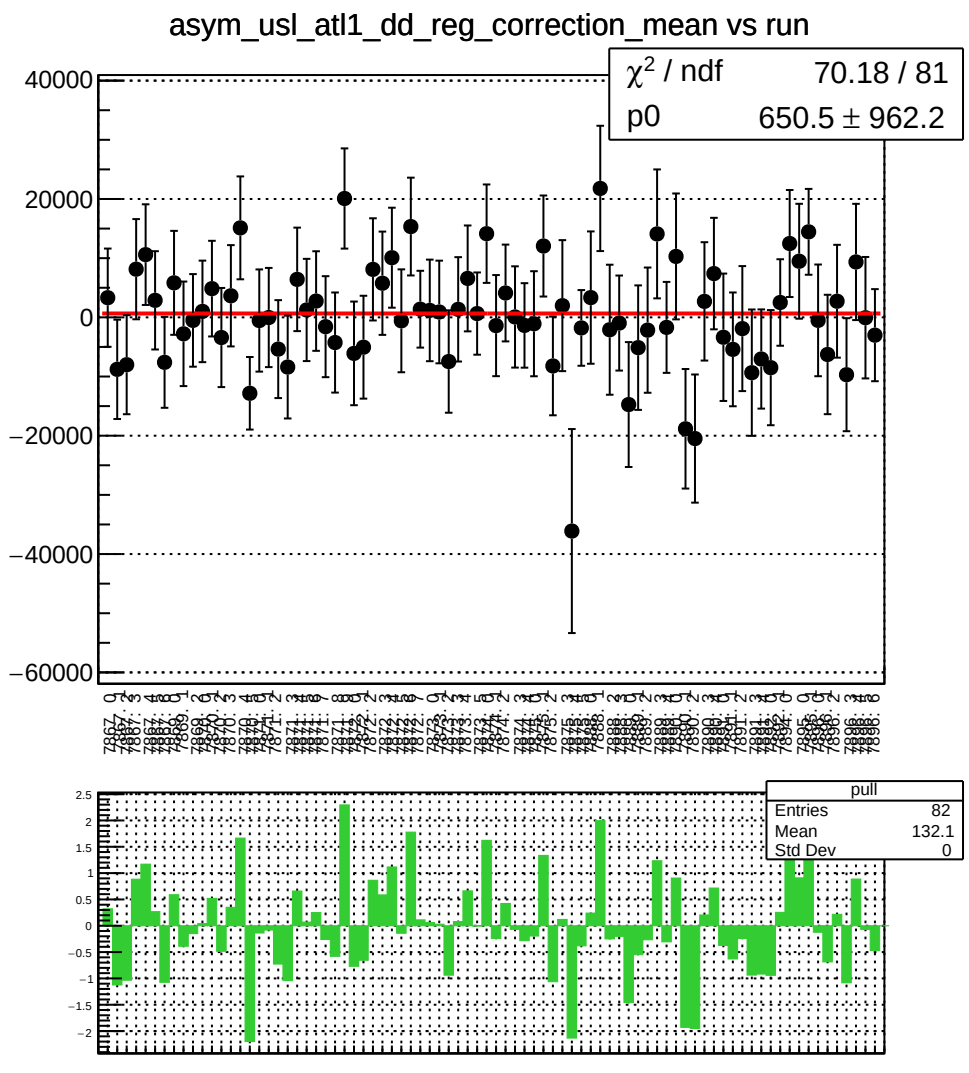

pull1D
Entries 82
Mean 0.08798
Std Dev 0.9134

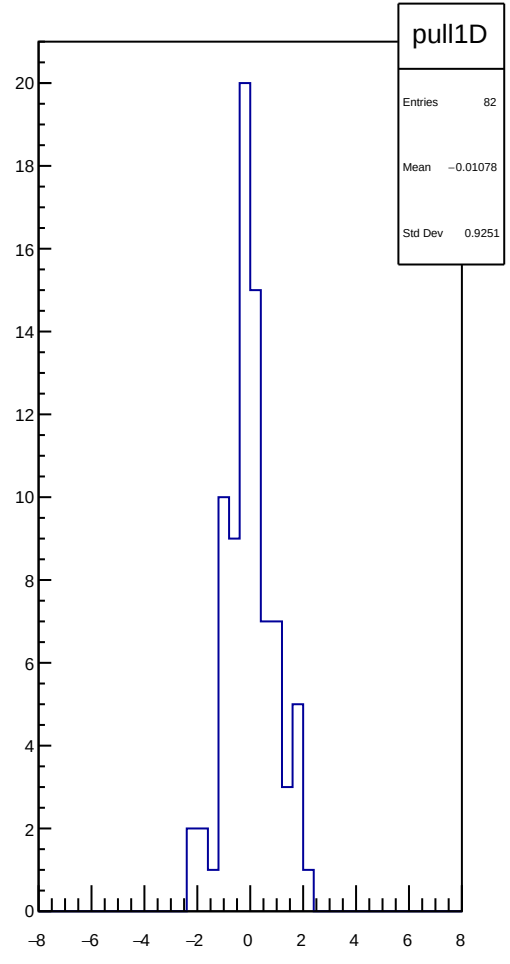

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 9.085e+05 / 81
p0 2.94e−11 ± 3.456e−14

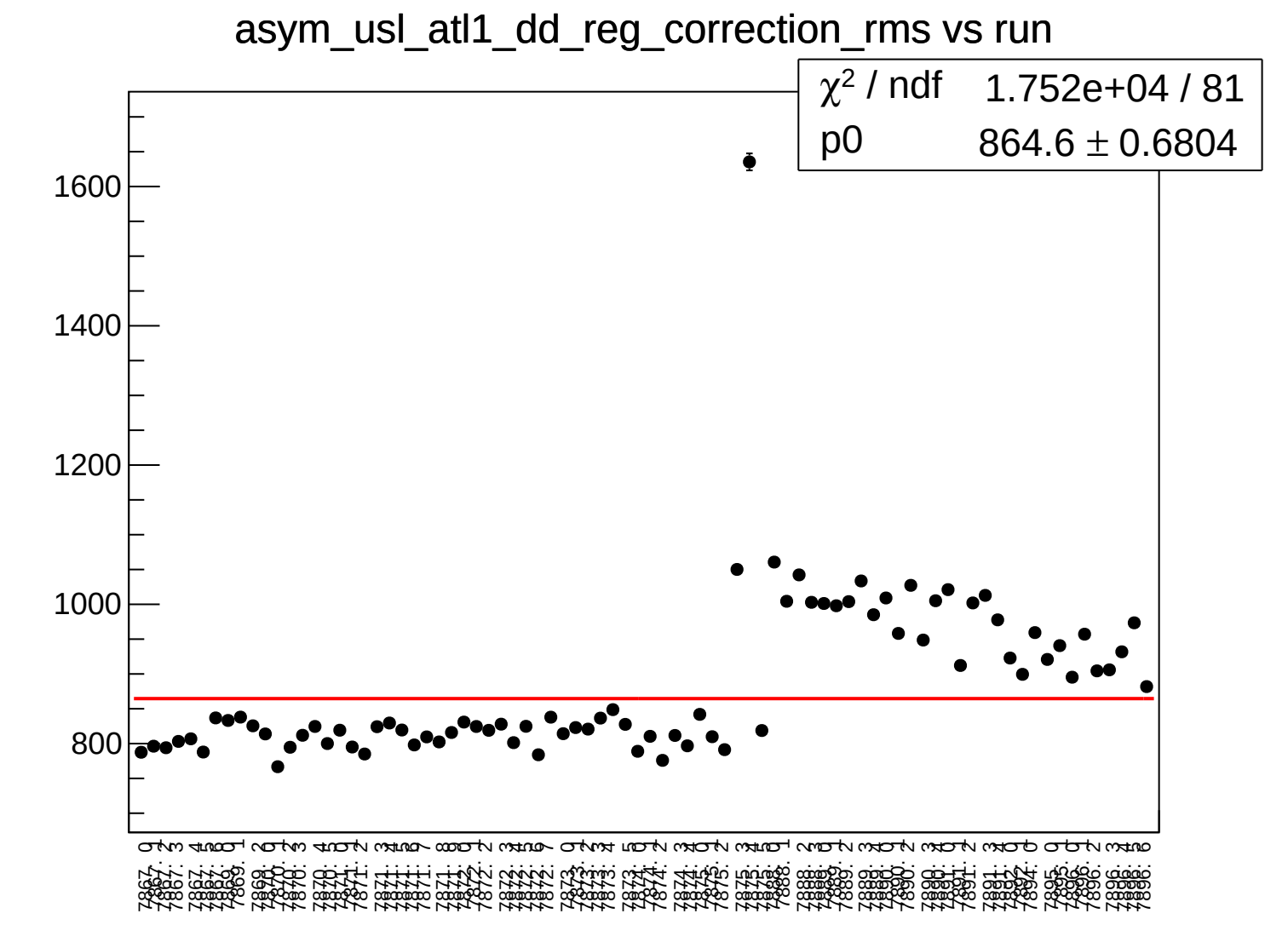

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.88 / 81
p0 −550.1± 1242
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −267.5
Std Dev 0
3
2
1
0
−1
−2

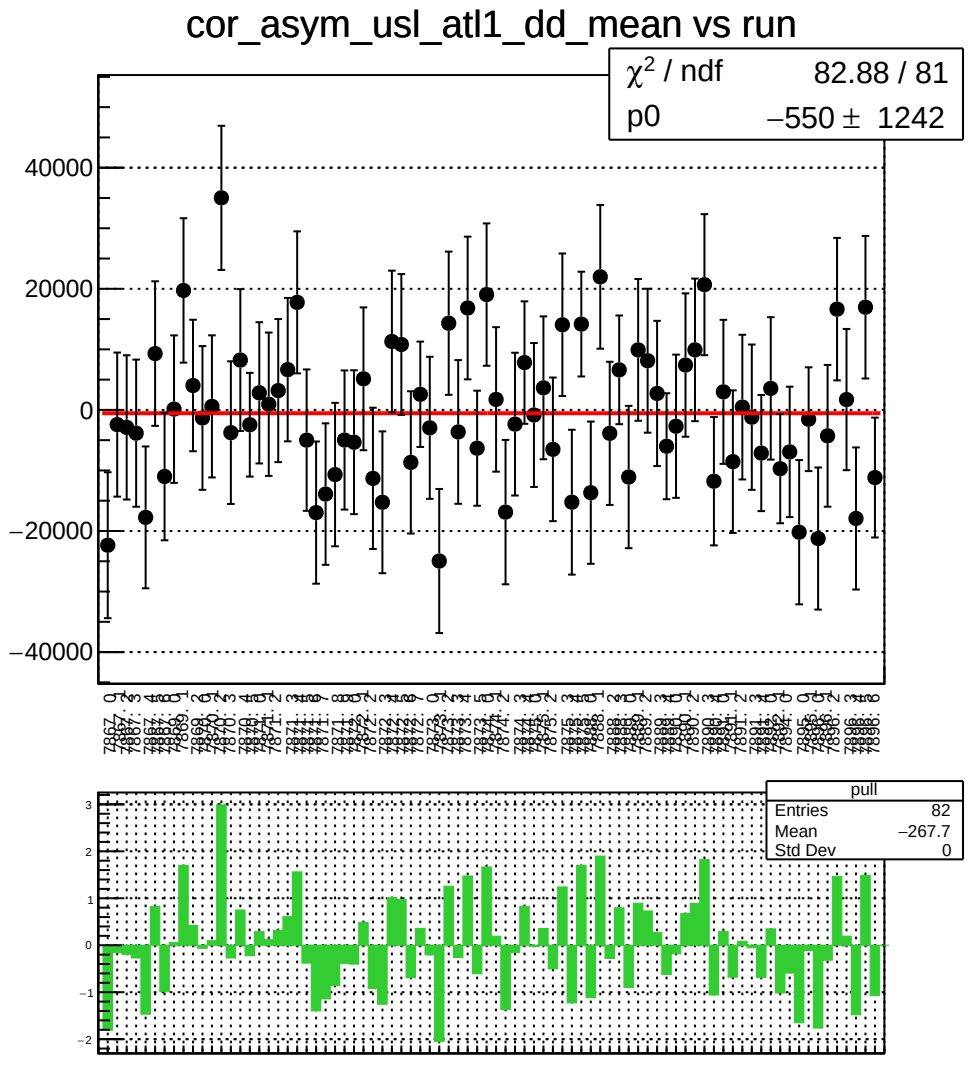

pull1D
Entries 82
Mean 0.003139
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

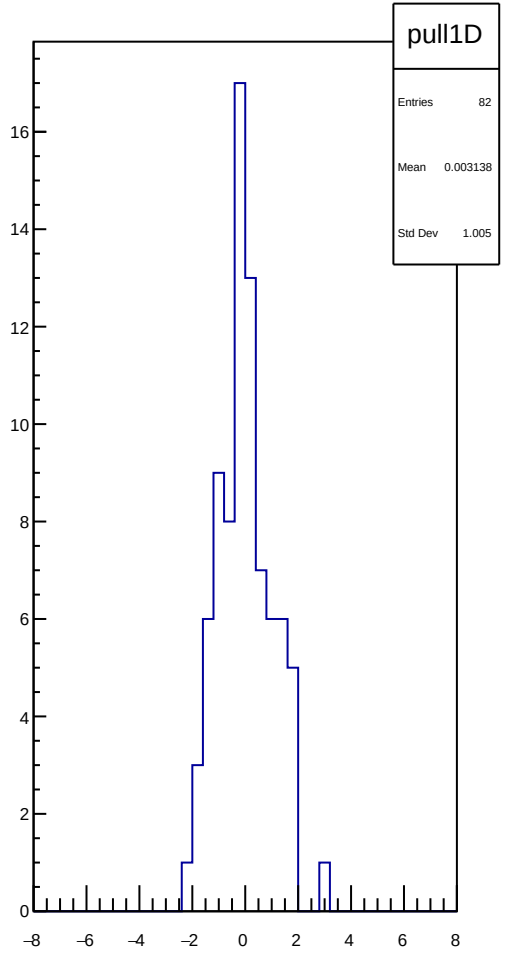

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 157 / 81
p0 1122 ± 0.8779
1170
1160
1150
1140
1130
1120
1110
1100
1090

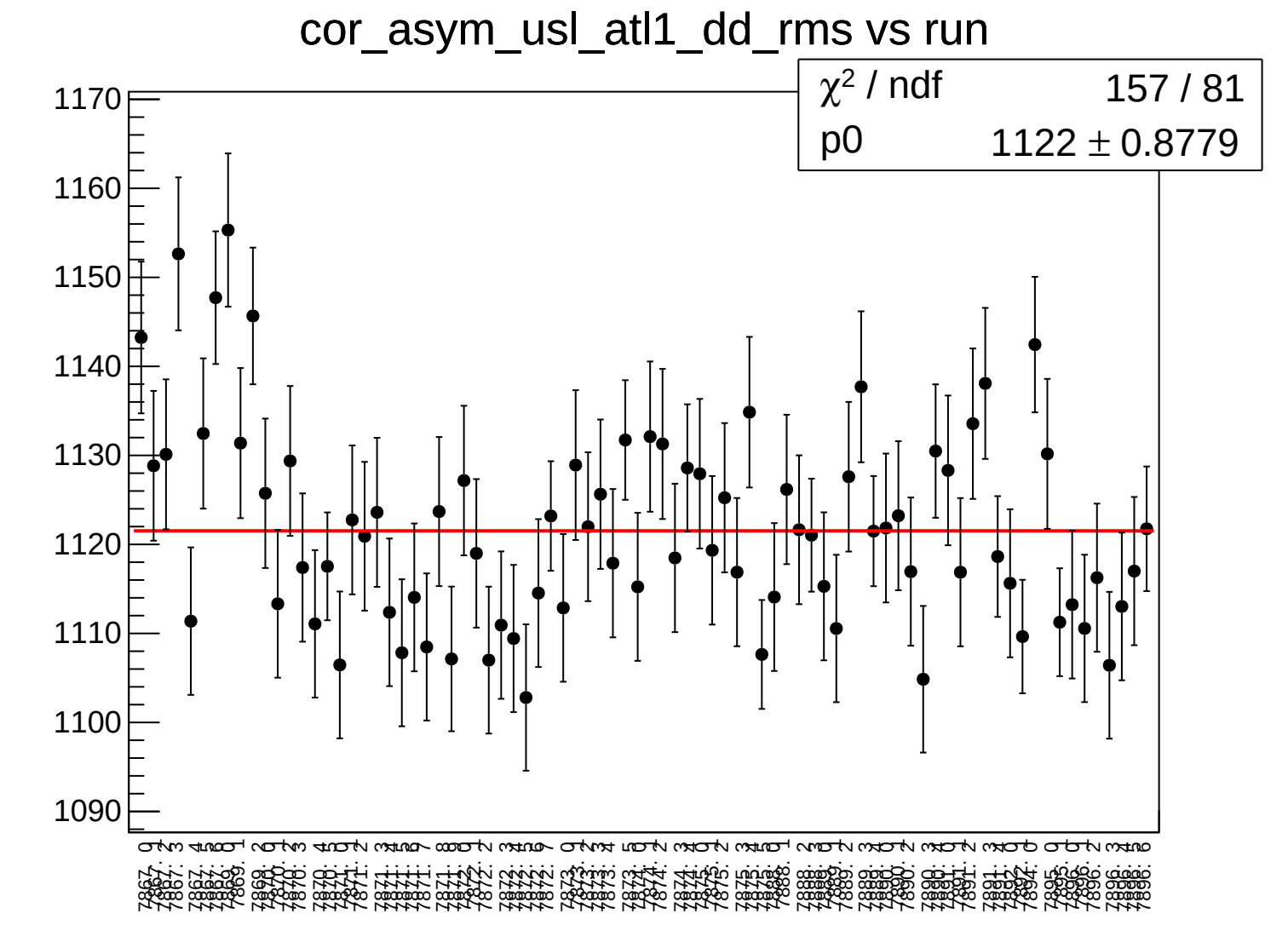

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 70.18 / 81
p0 650.5 ± 962.2
pull
Entries 82
Mean 132.1
Std Dev 0

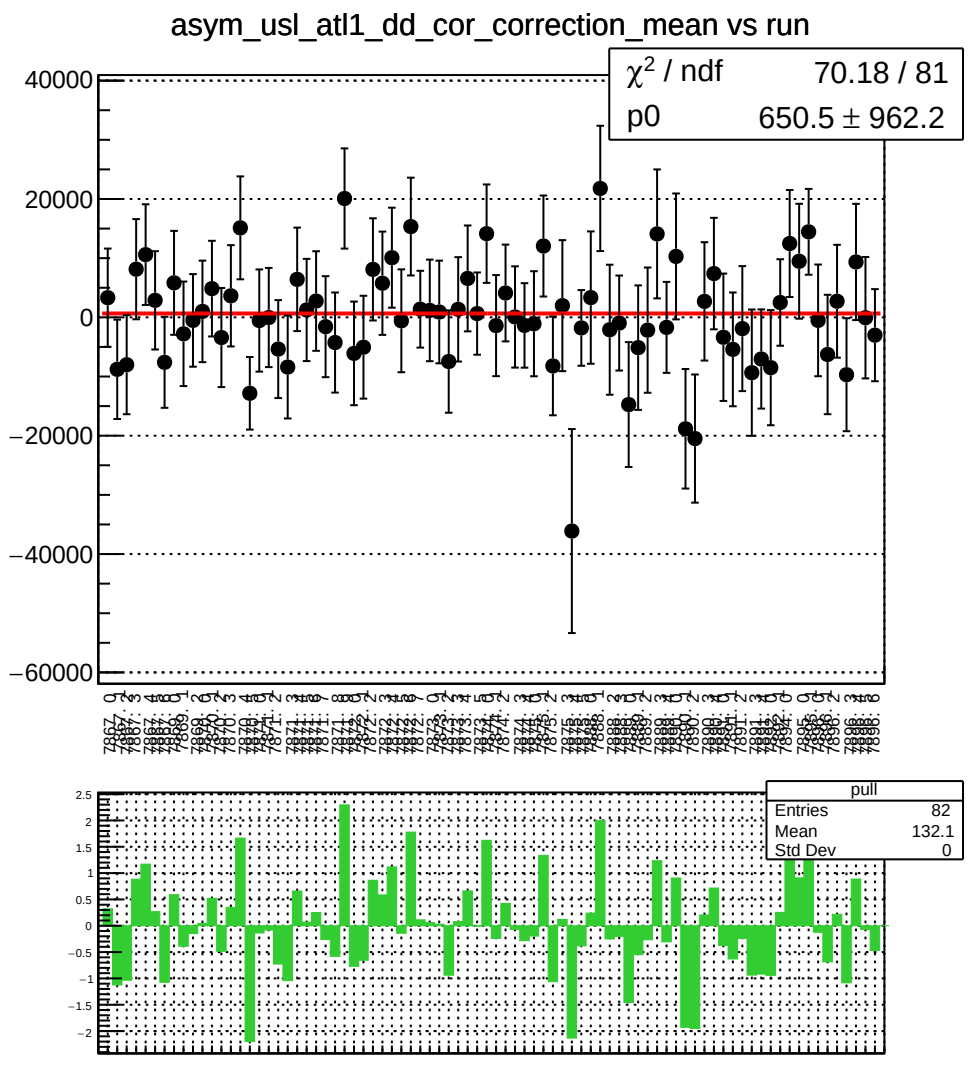

pull1D
Entries 82
Mean −0.01078
Std Dev 0.9251

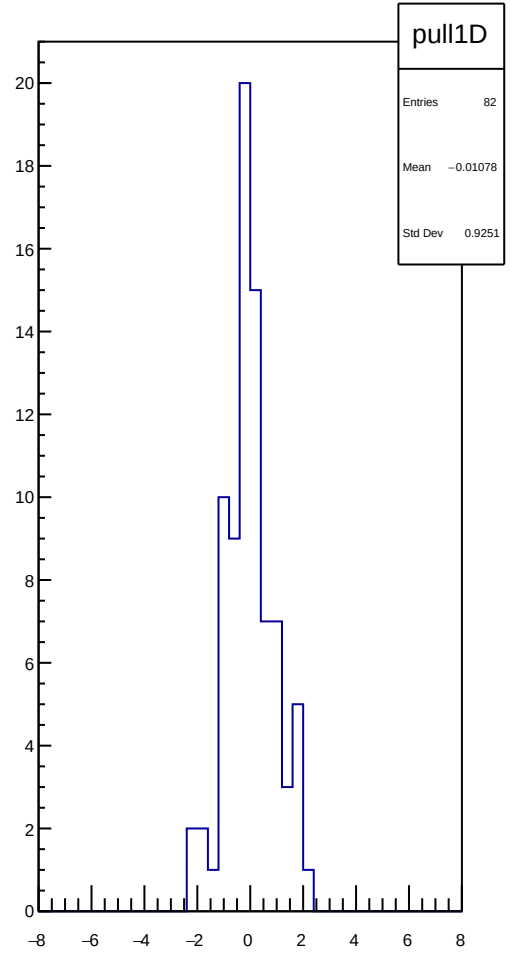

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.752e+04 / 81
p0 864.6 ± 0.6804
1600
1400
1200
1000
800

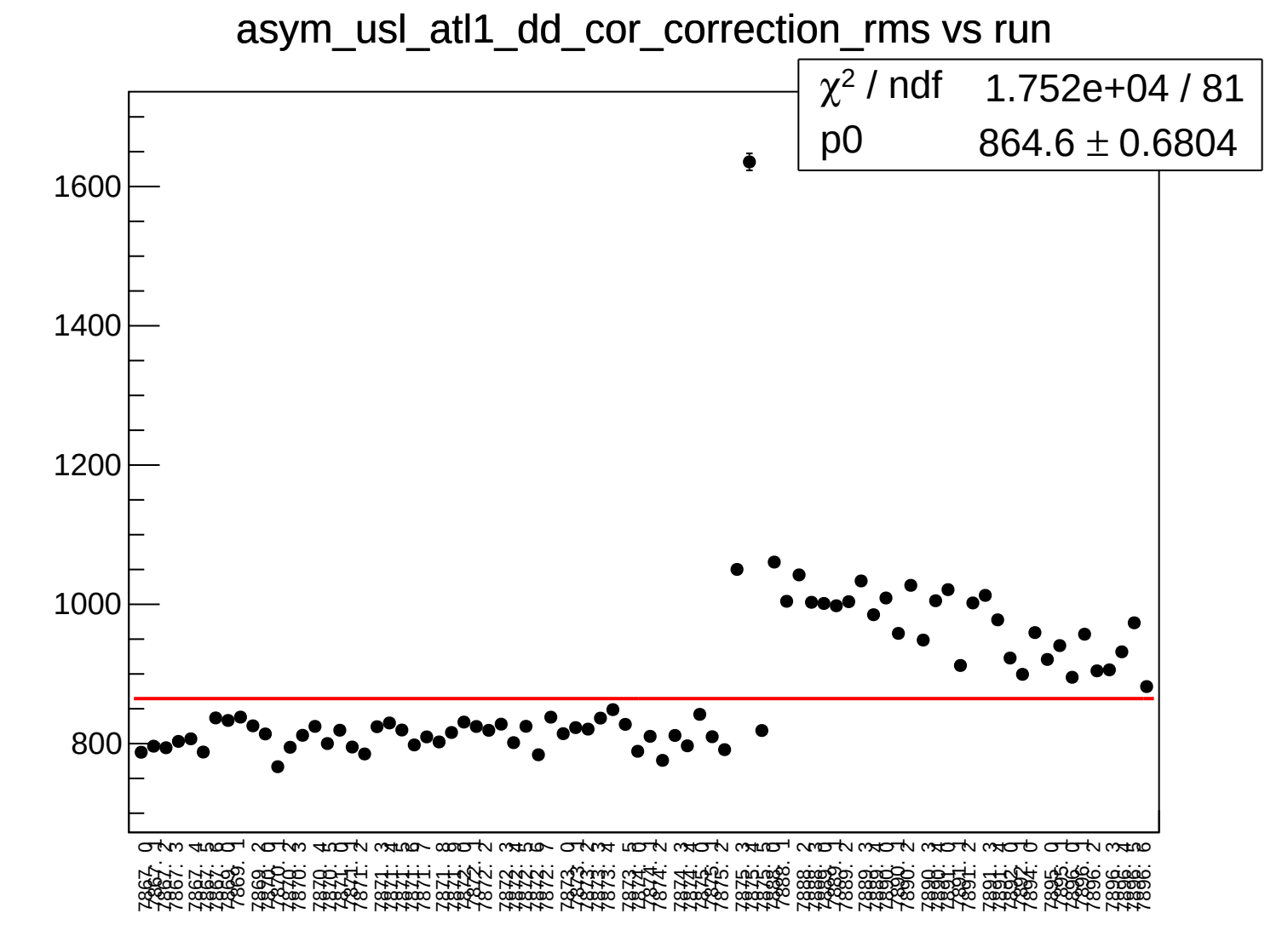

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.88 / 81
p0 −550 ± 1242
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −267.7
Std Dev 0
3
2
1
0
−1
−2

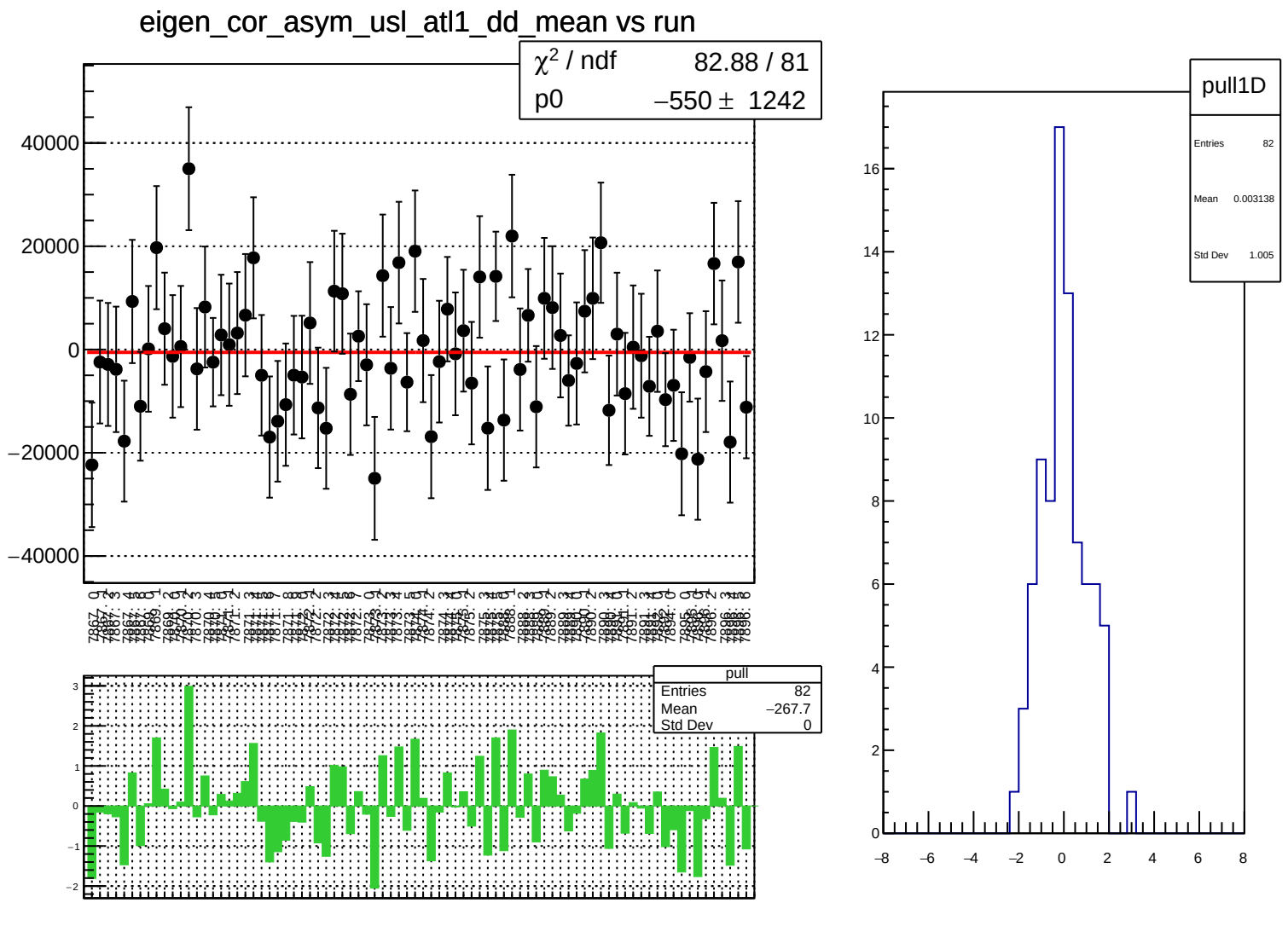

pull1D
Entries 82
Mean 0.003138
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

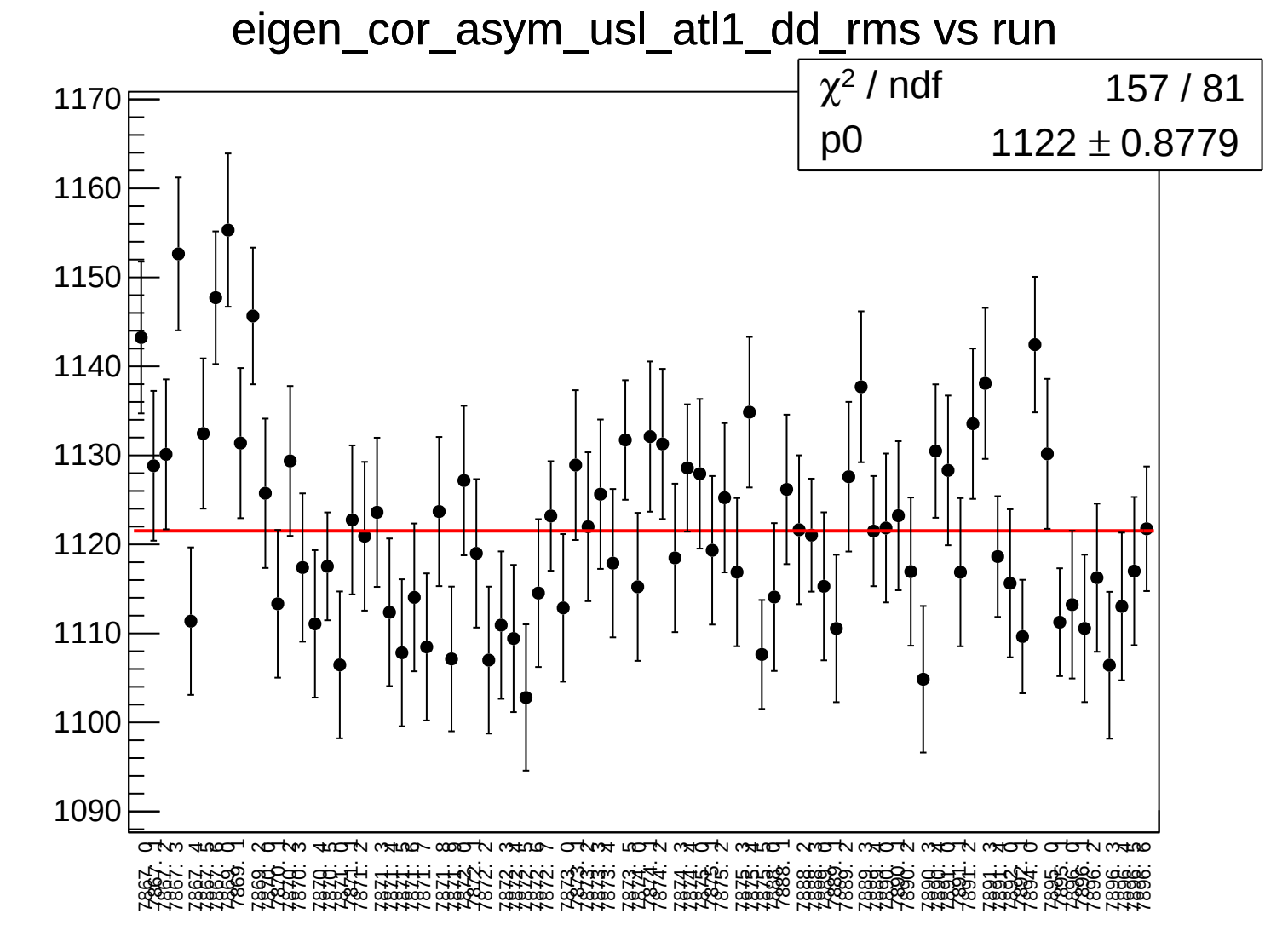

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 157 / 81
p0 1122 ± 0.8779
1170
1160
1150
1140
1130
1120
1110
1100
1090

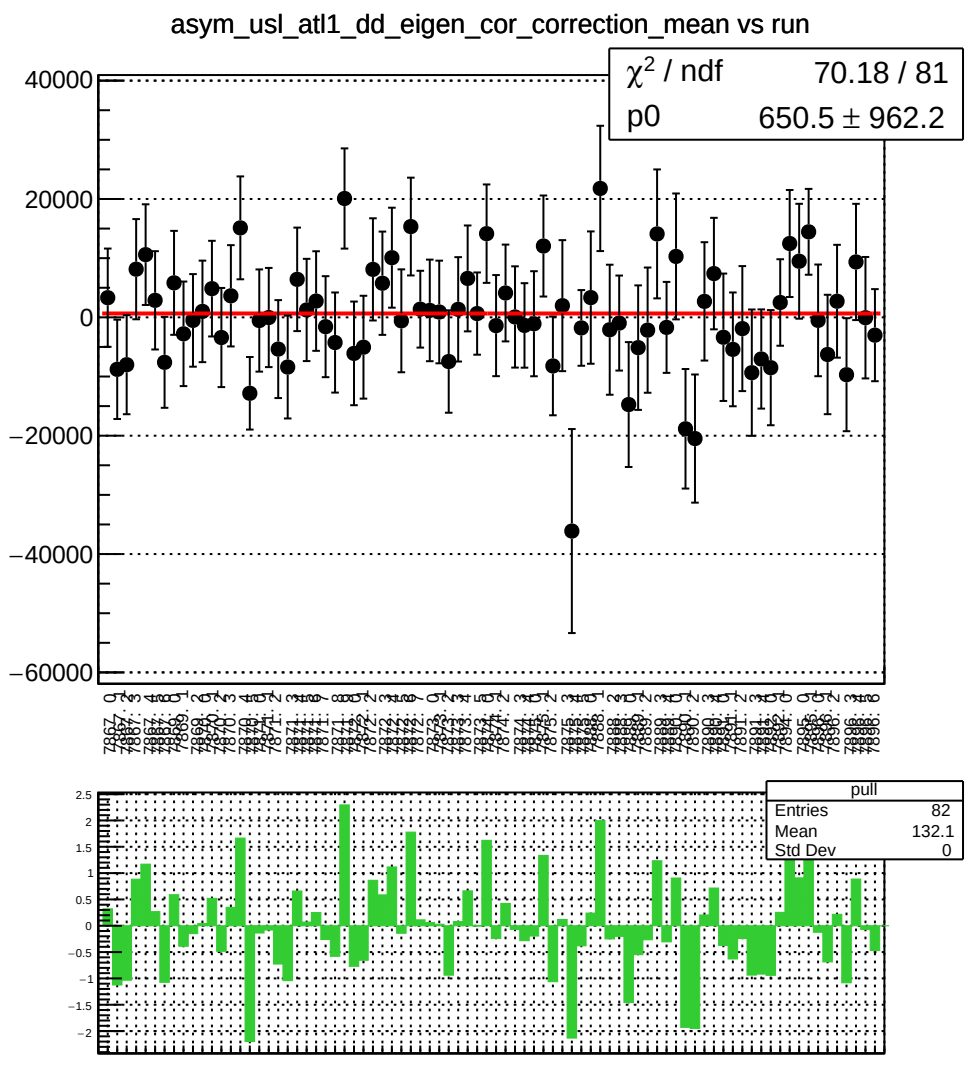

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 70.18 / 81
p0 650.5 ± 962.2
pull
Entries 82
Mean 132.1
Std Dev 0

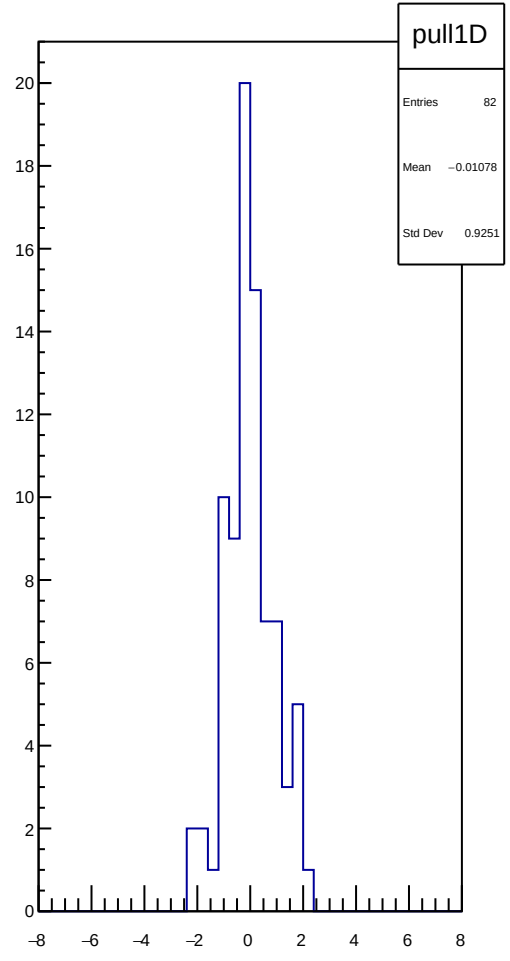

pull1D
Entries 82
Mean −0.01078
Std Dev 0.9251

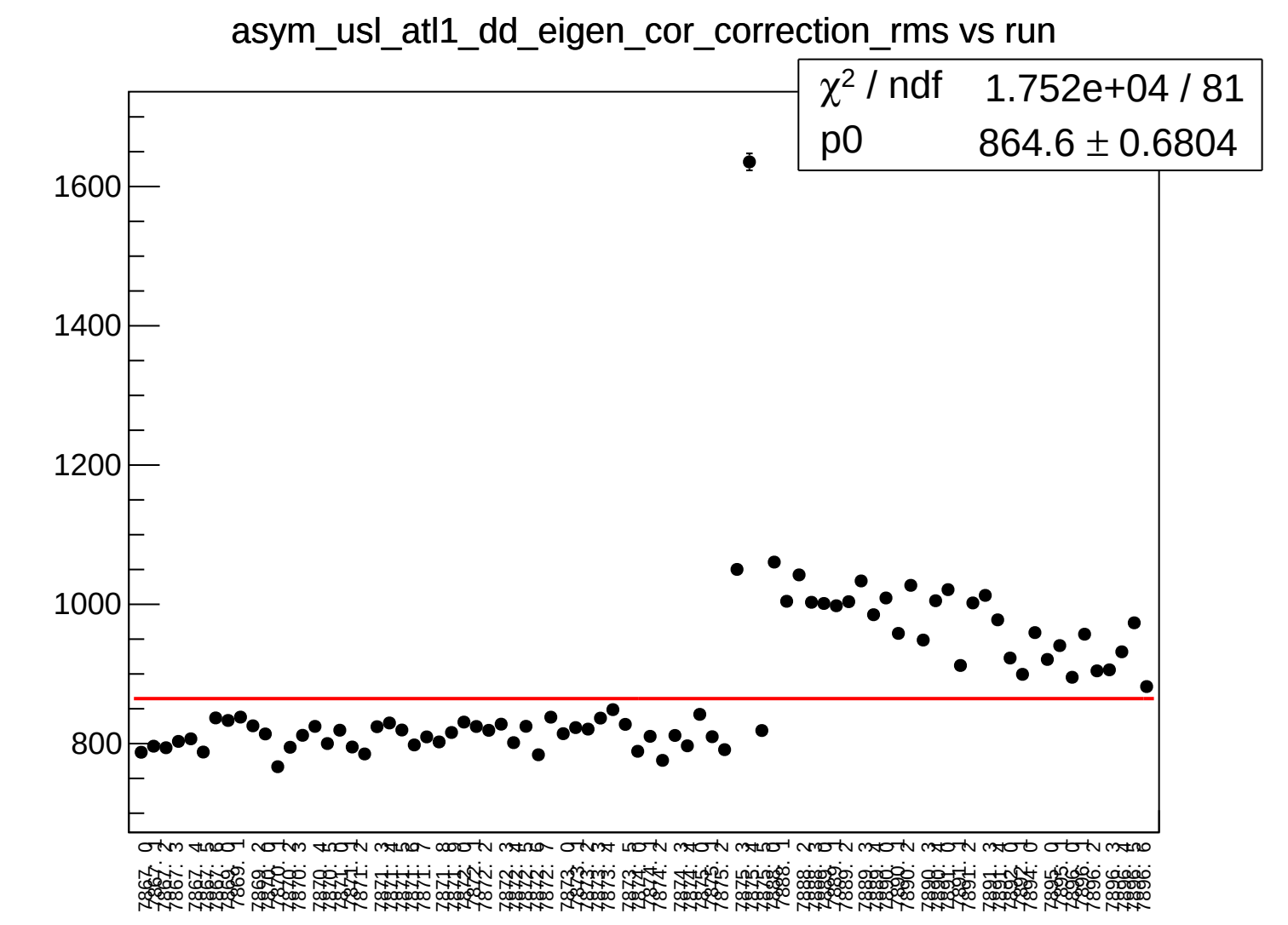

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.752e+04 / 81
p0 864.6 ± 0.6804
1600
1400
1200
1000
800

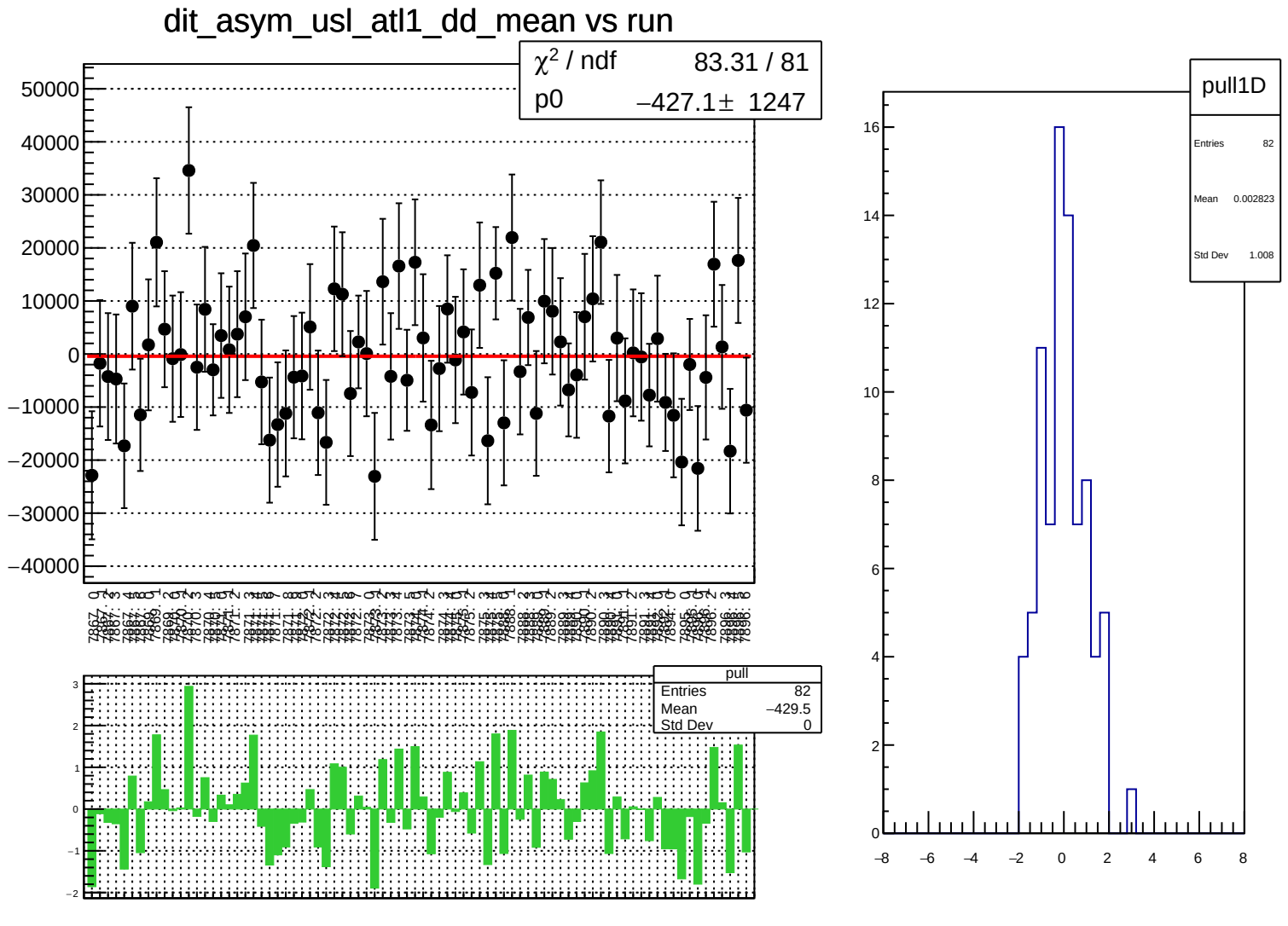

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.88 / 81
p0 −550 ± 1242
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −267.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003138
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

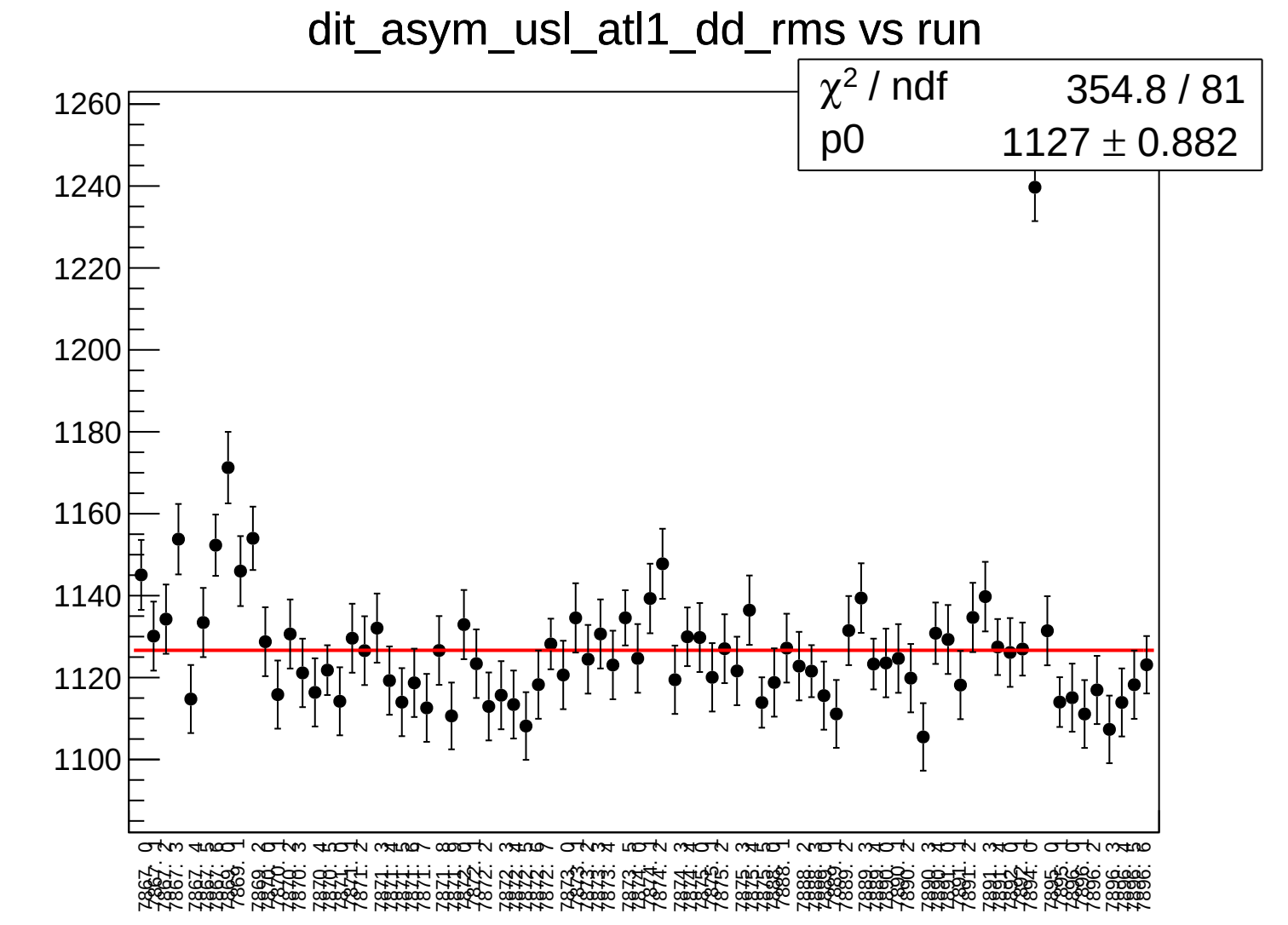

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 157 / 81
p0 1122 ± 0.8779
1170
1160
1150
1140
1130
1120
1110
1100
1090

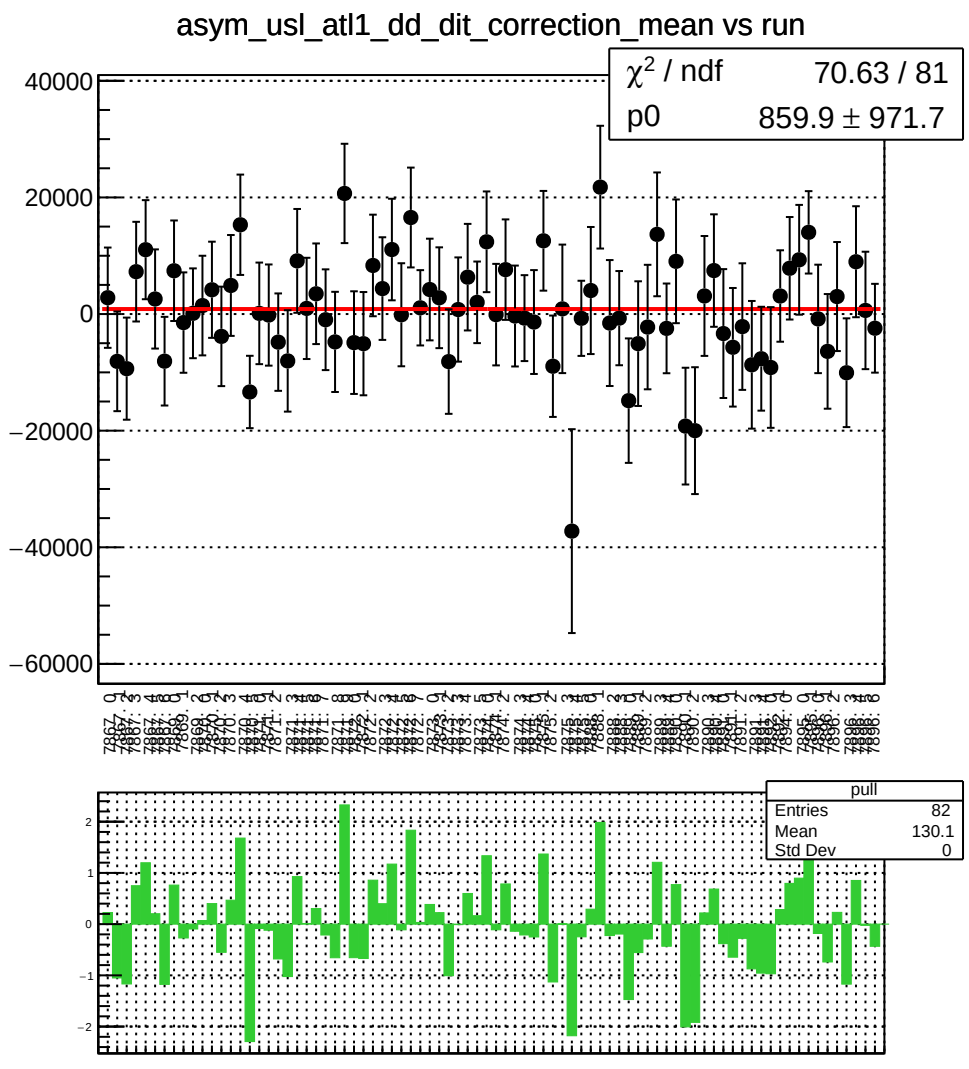

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.18 / 81
p0 650.5 ± 962.2
pull
Entries 82
Mean 132.1
Std Dev 0

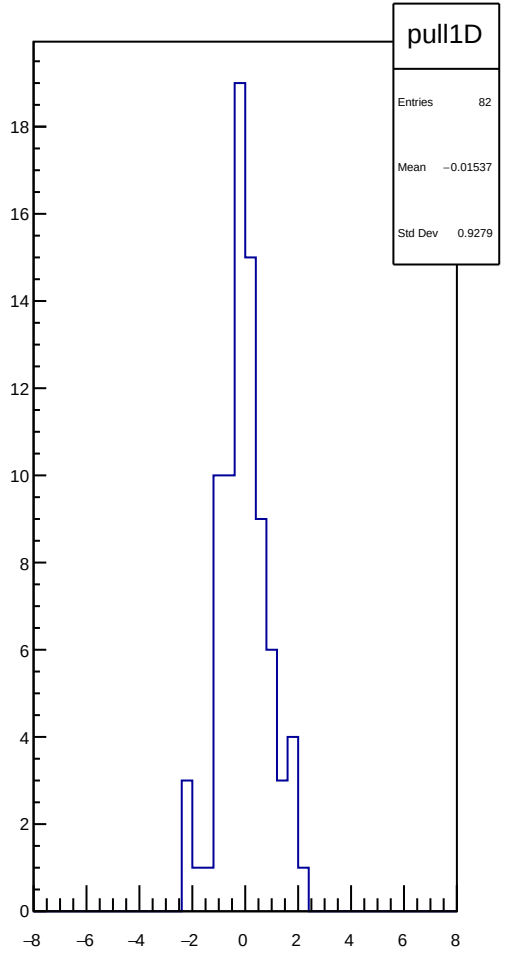

pull1D
Entries 82
Mean −0.01078
Std Dev 0.9251

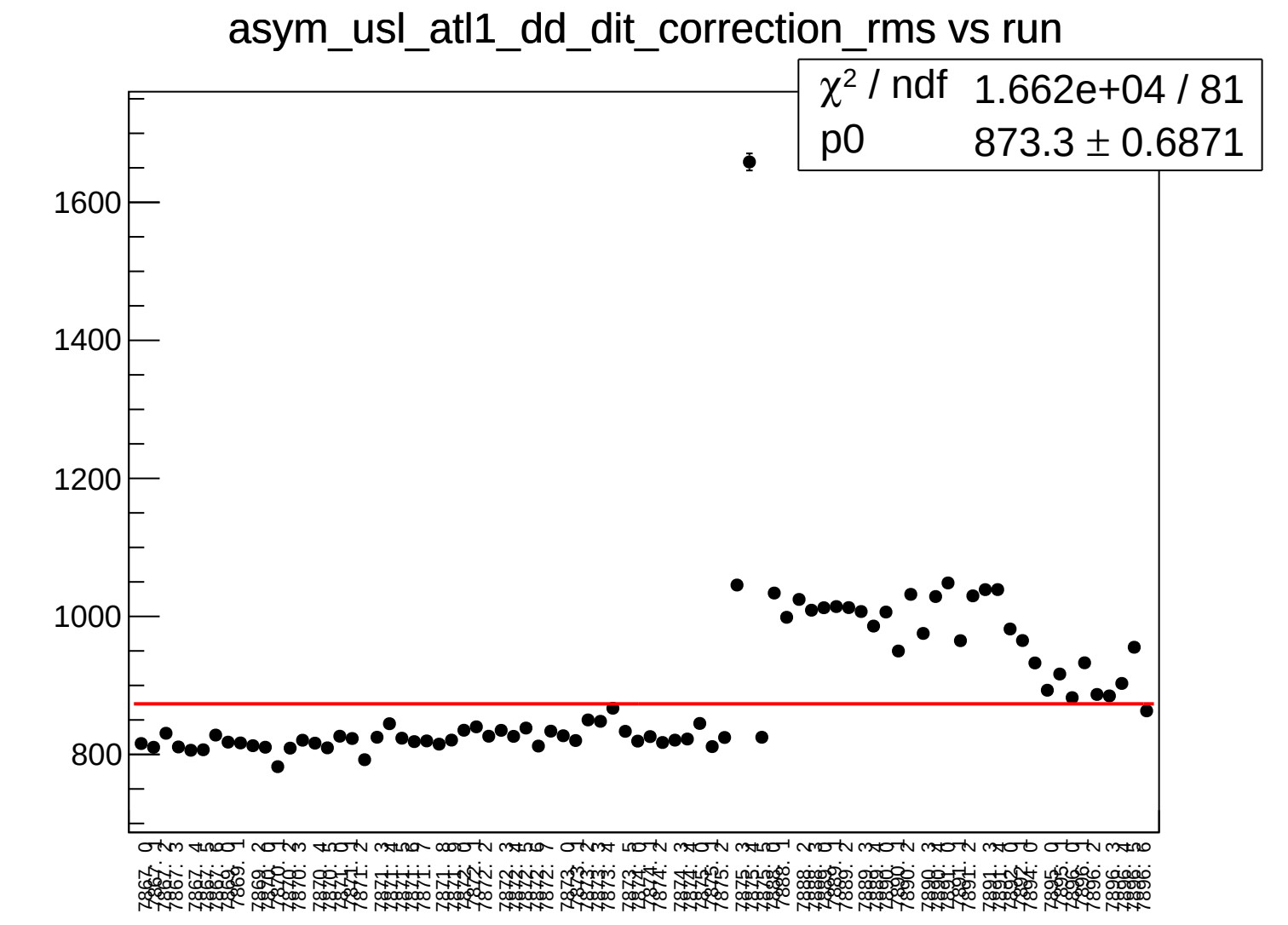

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.752e+04 / 81
p0 864.6 ± 0.6804
1600
1400
1200
1000
800

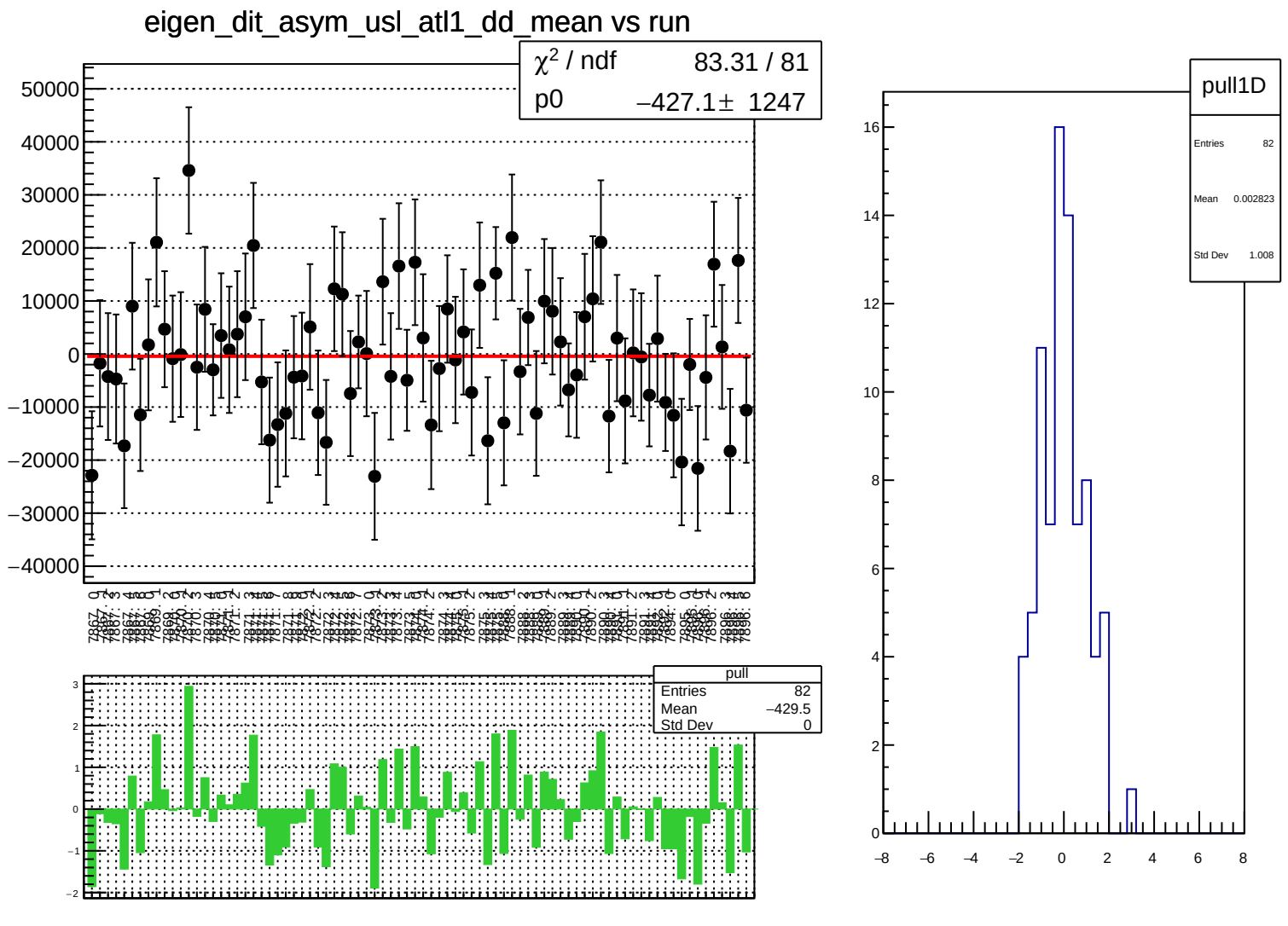

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.31 / 81
p0 −427.1± 1247
pull
Entries 82
Mean −429.5
Std Dev 0
pull1D
Entries 82
Mean 0.002823
Std Dev 1.008

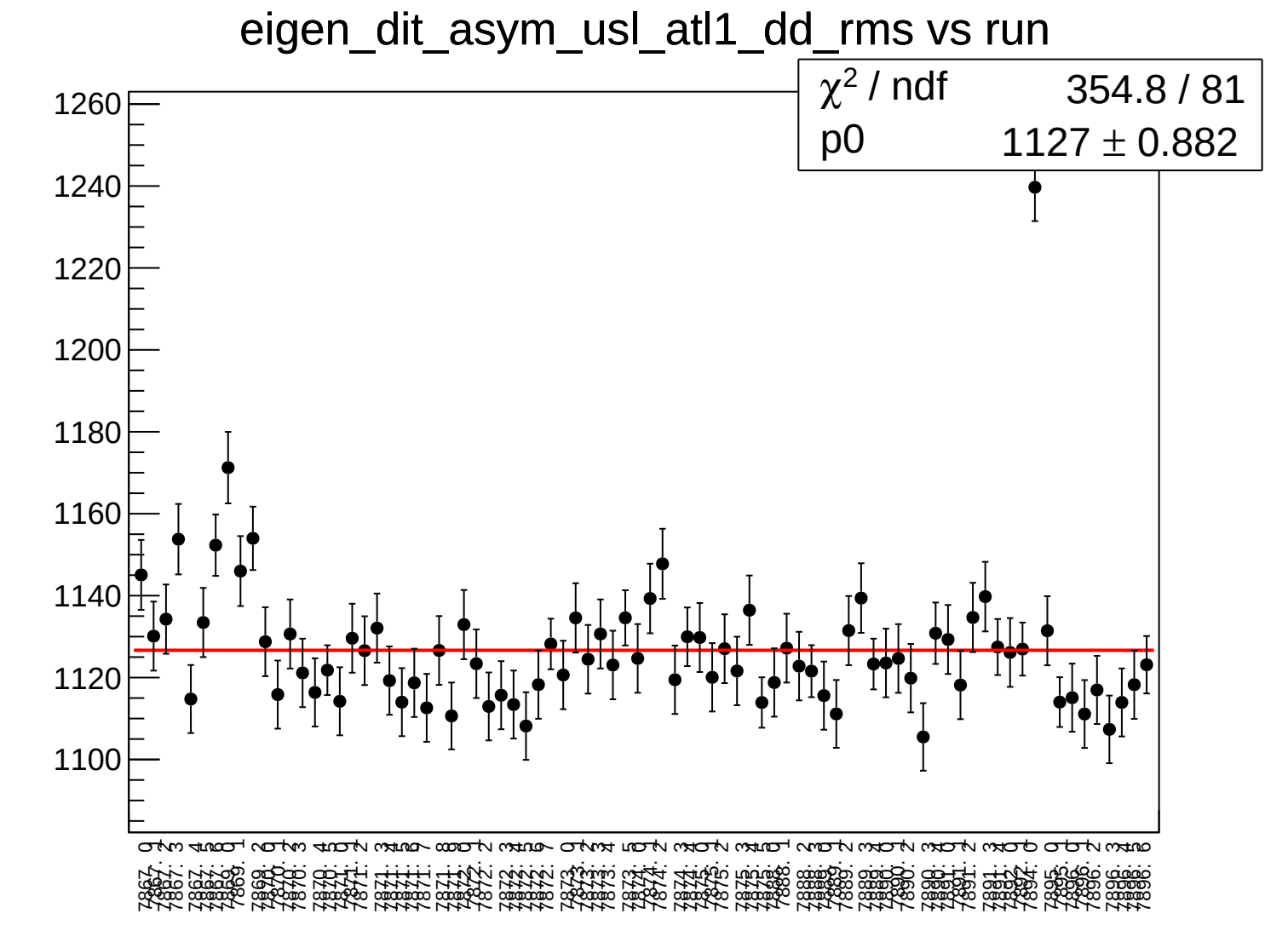

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 354.8 / 81
p0 1127 ± 0.882
1260
1240
1220
1200
1180
1160
1140
1120
1100

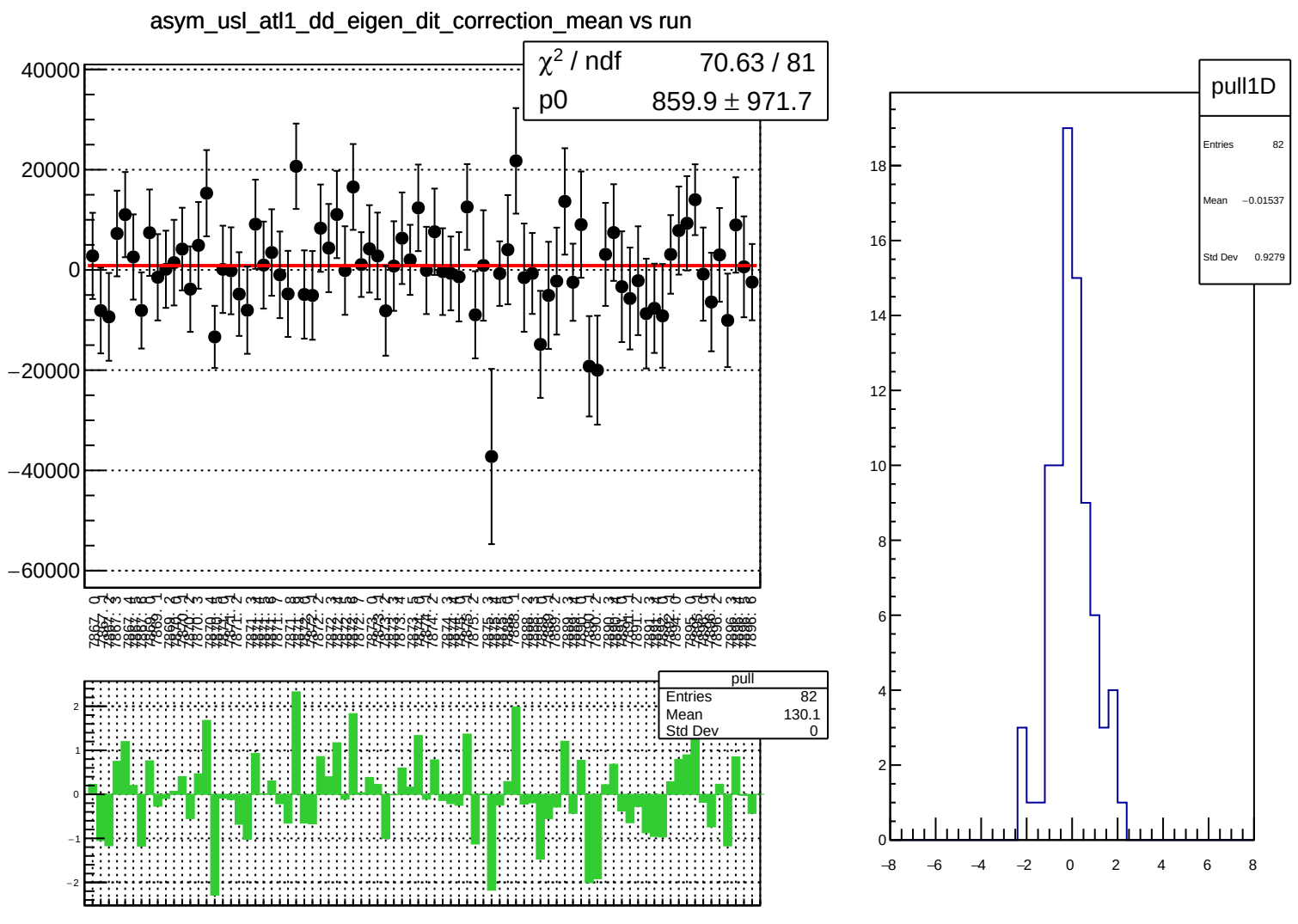

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 70.63 / 81
p0 859.9 ± 971.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 130.1
Std Dev 0
2
1
0
−1
−2

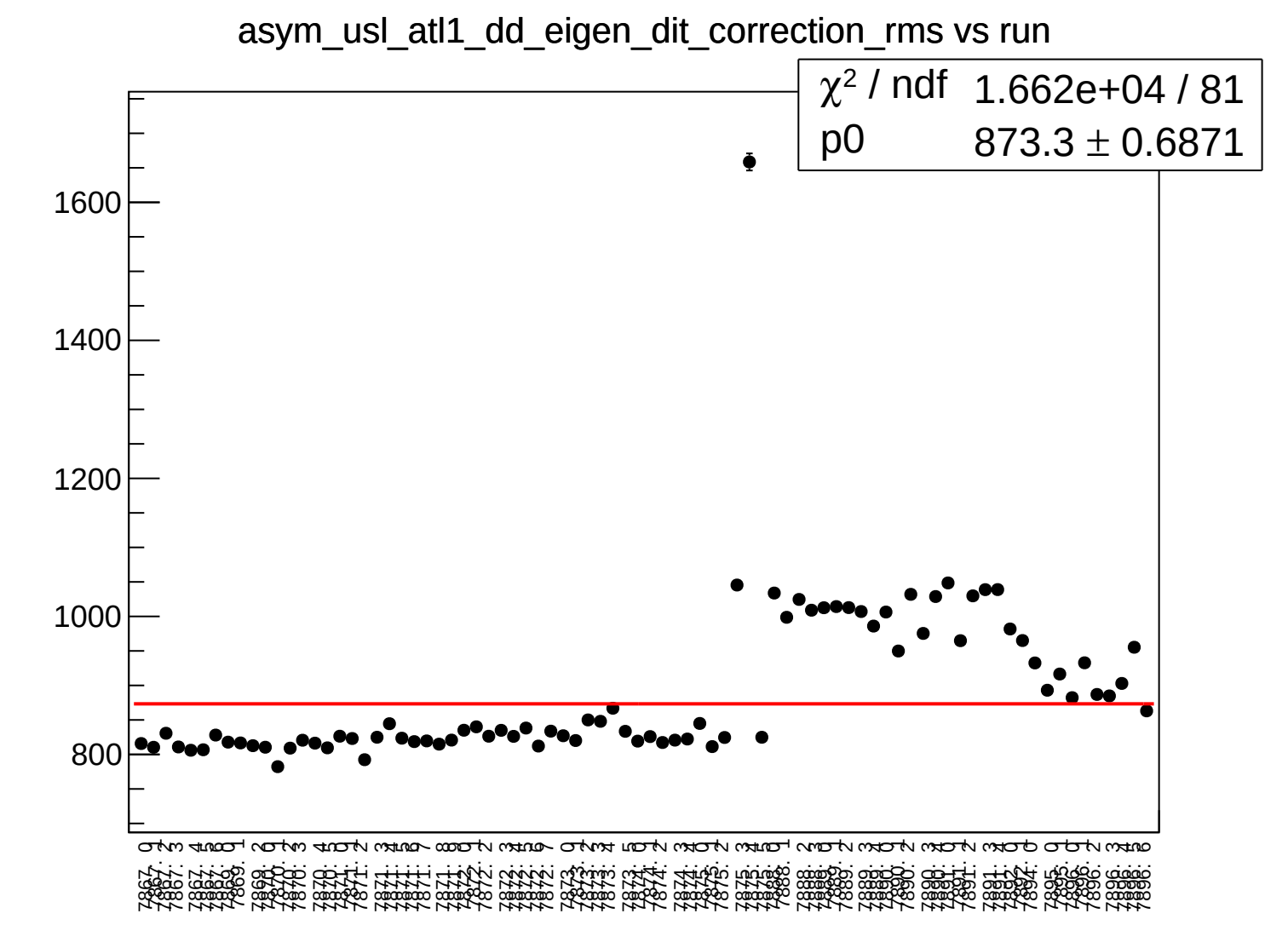

pull1D
Entries 82
Mean −0.01537
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

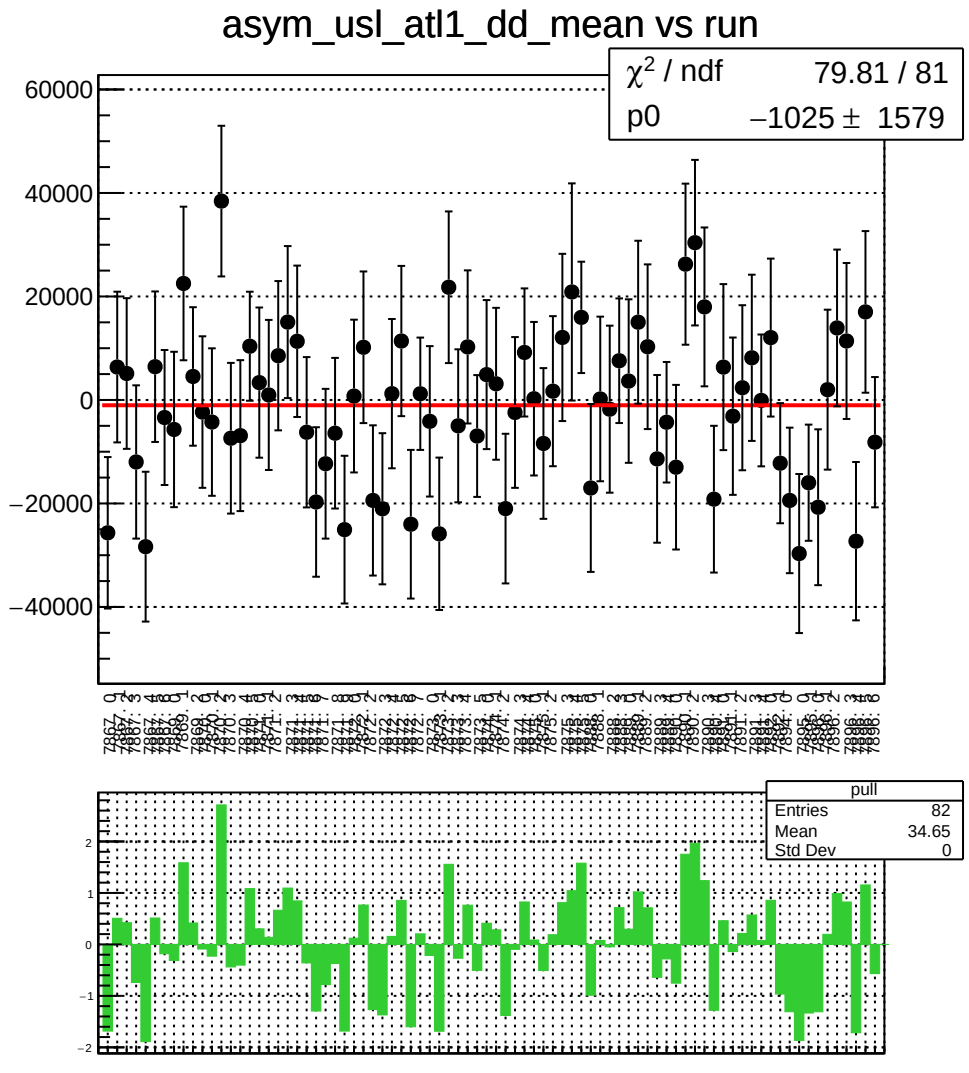

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.662e+04 / 81
p0 873.3 ± 0.6871
1600
1400
1200
1000
800

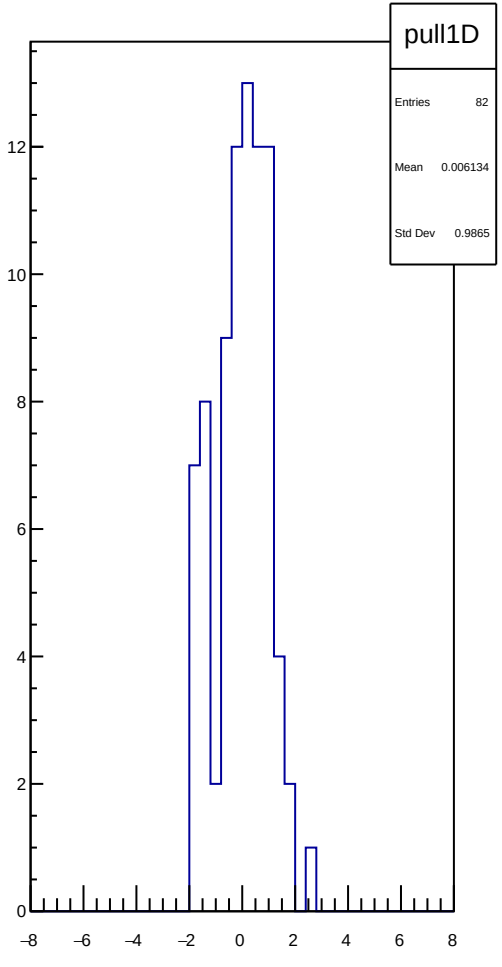

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.31 / 81
p0 −427.1± 1247
pull
Entries 82
Mean −429.5
Std Dev 0
pull1D
Entries 82
Mean 0.002823
Std Dev 1.008

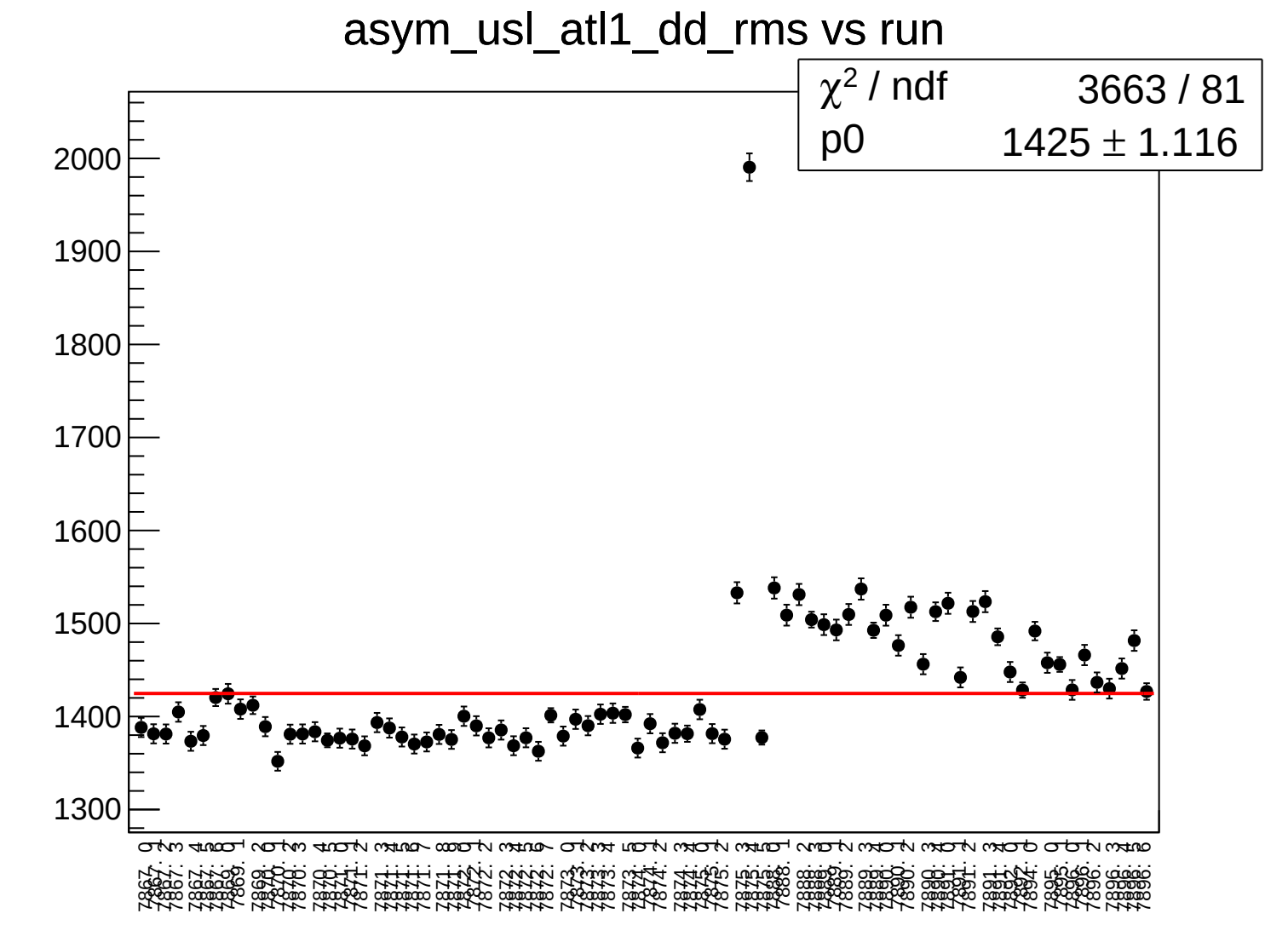

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 354.8 / 81
p0 1127 ± 0.882
1260
1240
1220
1200
1180
1160
1140
1120
1100

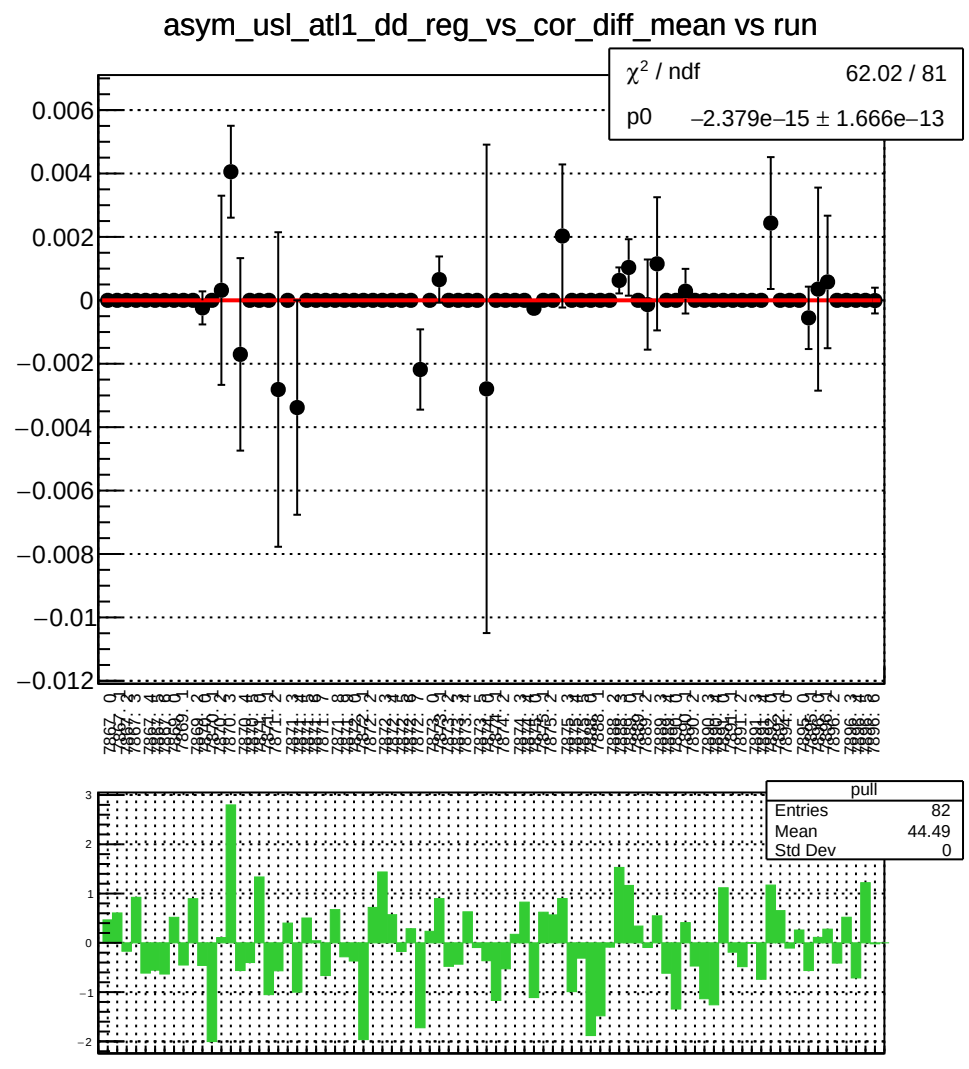

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.63 / 81
p0 859.9 ± 971.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 130.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01537
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

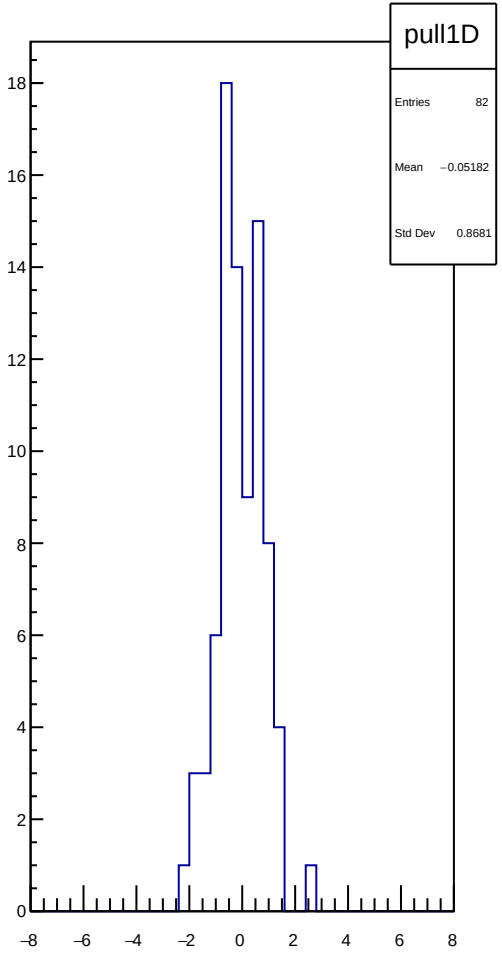

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.662e+04 / 81
p0 873.3 ± 0.6871
1600
1400
1200
1000
800

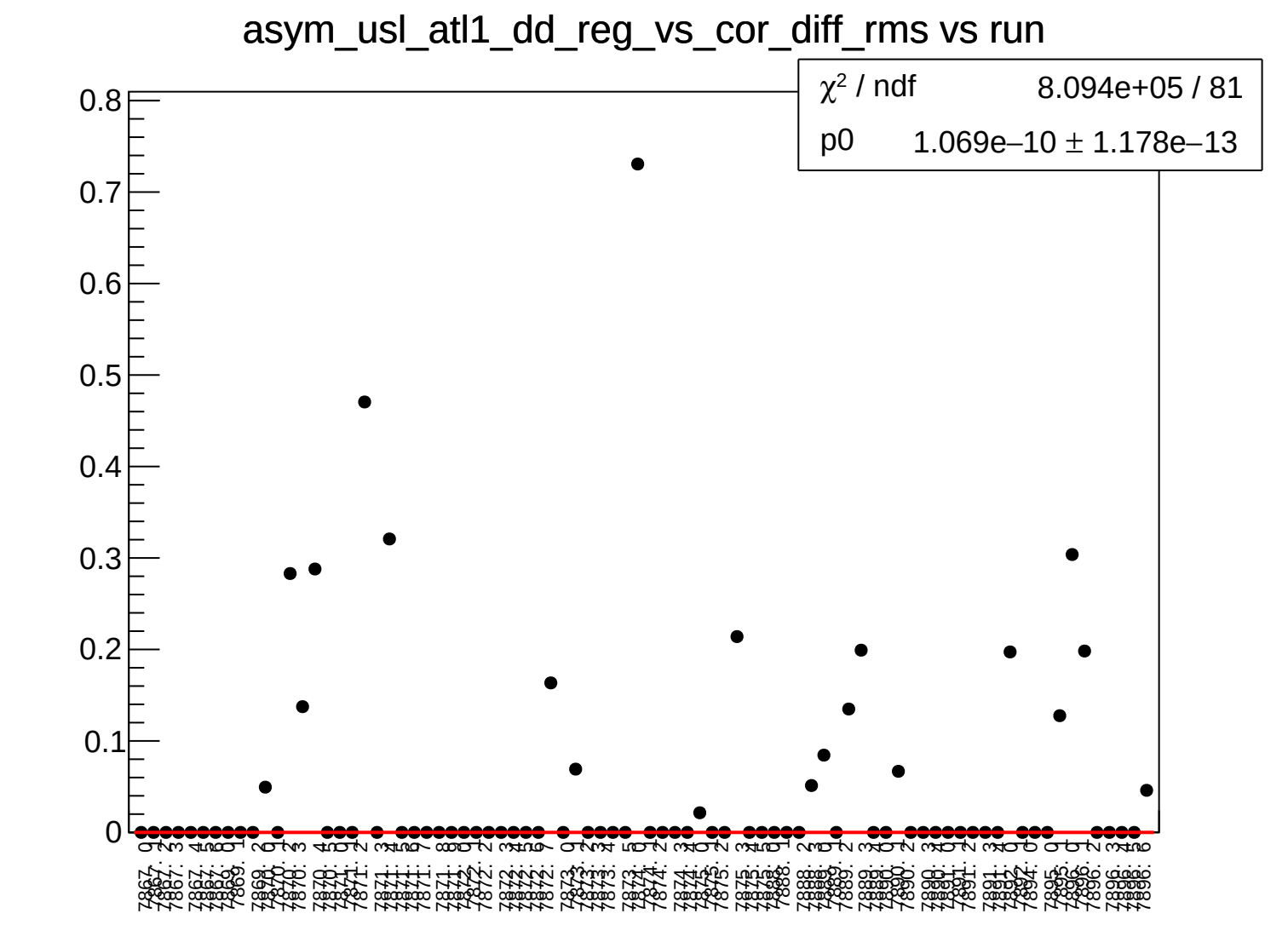

asym_usl_atl1_dd_mean vs run
χ² / ndf 79.81 / 81
p0 −1025 ± 1579
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 34.65
Std Dev 0
2
1
0
−1
−2

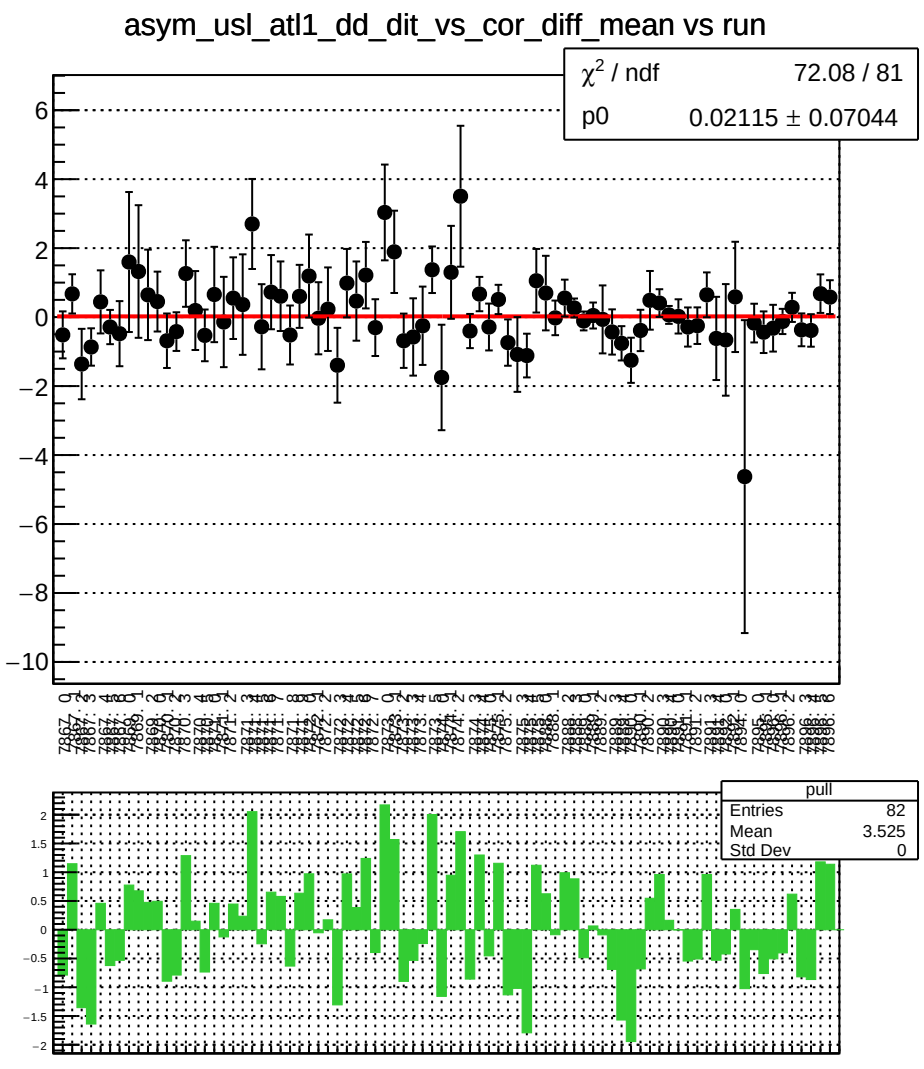

pull1D
Entries 82
Mean 0.006134
Std Dev 0.9865
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

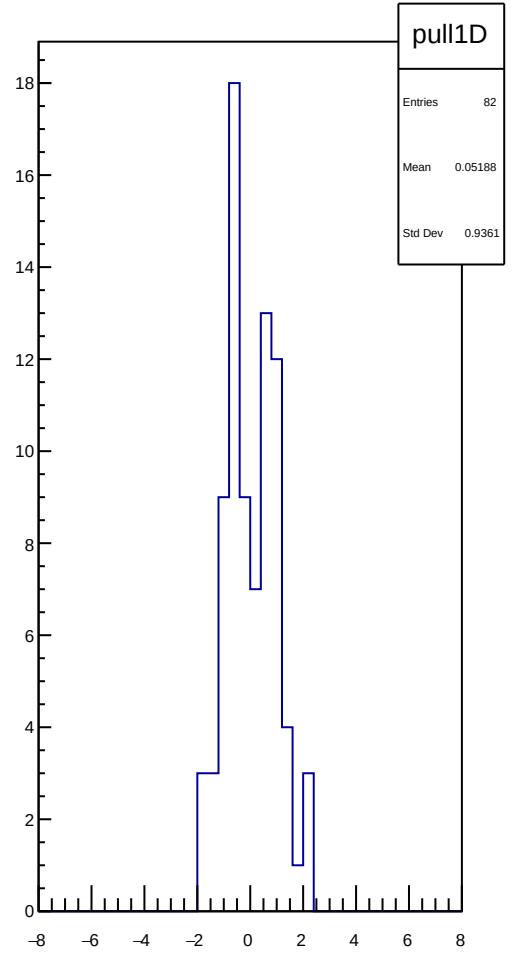

asym_usl_atl1_dd_rms vs run
χ^2 / ndf 3663 / 81
p0 1425 ± 1.116
2000
1900
1800
1700
1600
1500
1400
1300

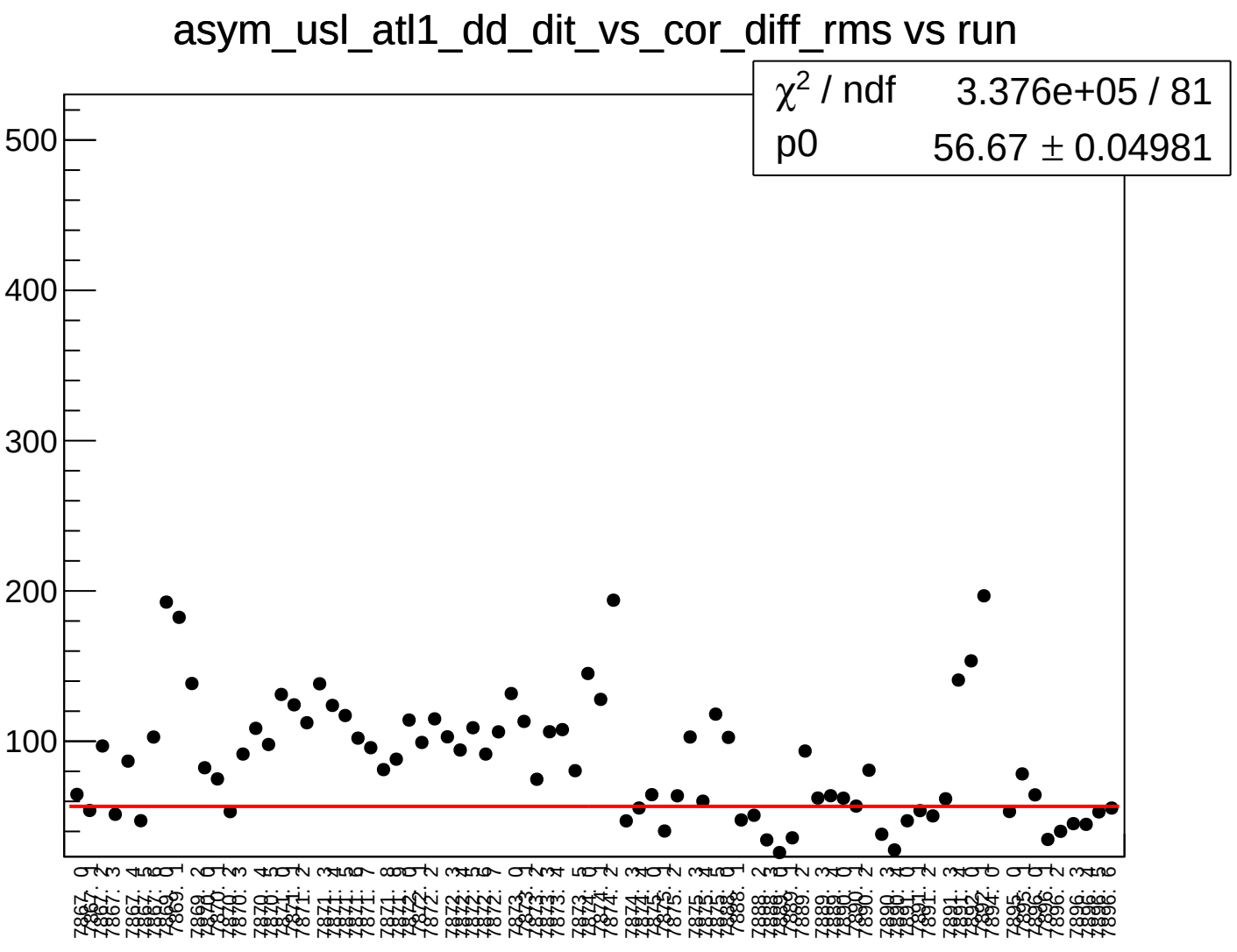

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 62.02 / 81
p0 −2.379e−15 ± 1.666e−13
pull
Entries 82
Mean 44.49
Std Dev 0

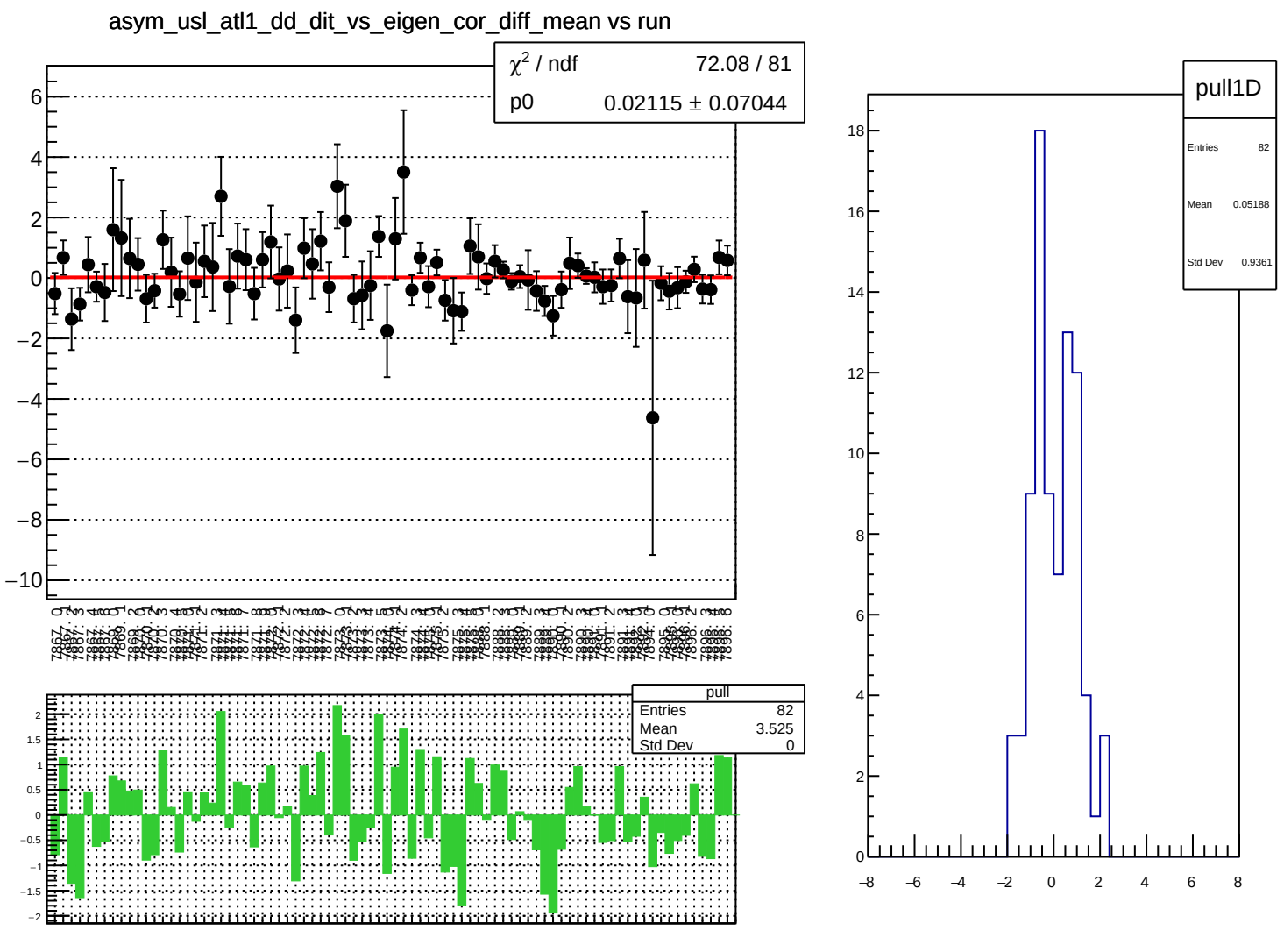

pull1D
Entries 82
Mean −0.05182
Std Dev 0.8681

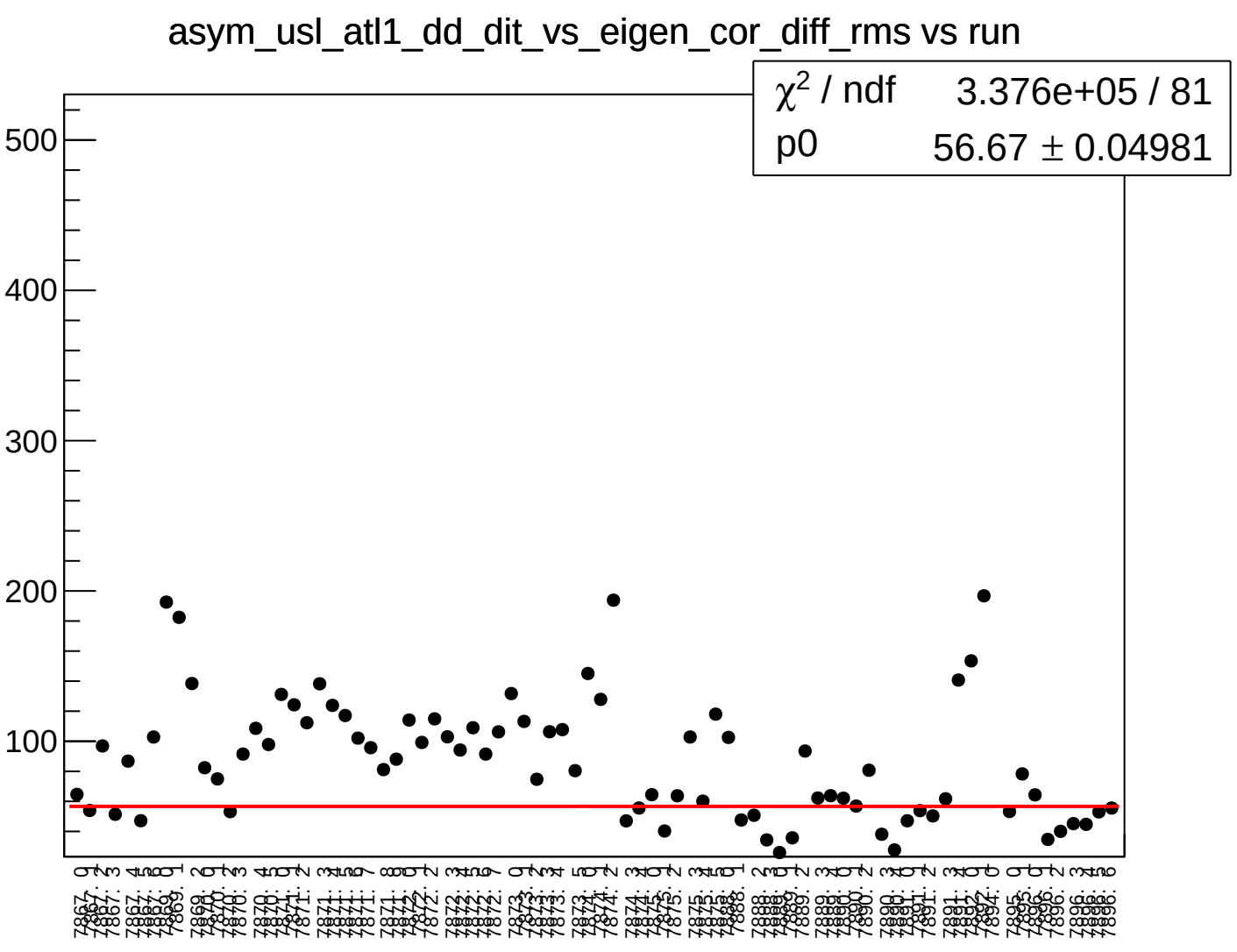

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.094e+05 / 81
p0 1.069e−10 ± 1.178e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

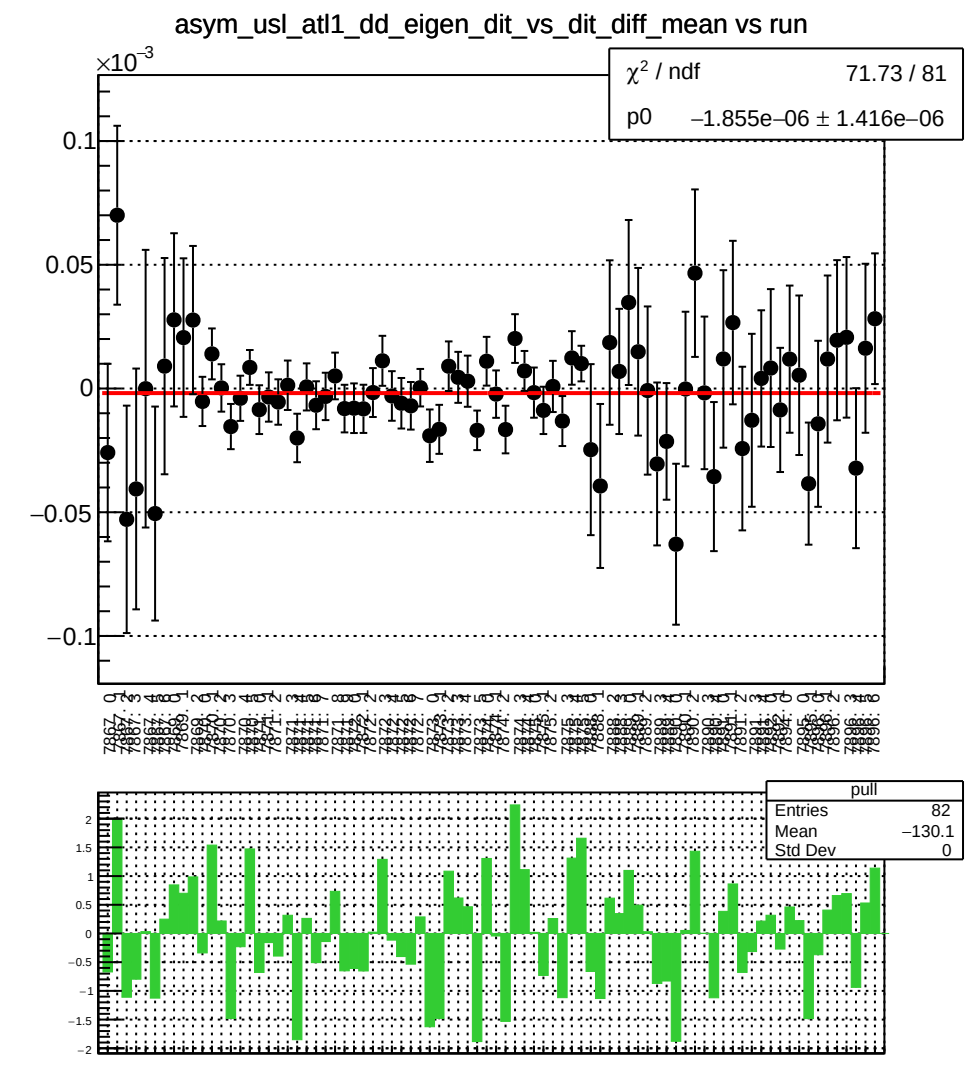

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.08 / 81
p0 0.02115 ± 0.07044
pull
Entries 82
Mean 3.525
Std Dev 0

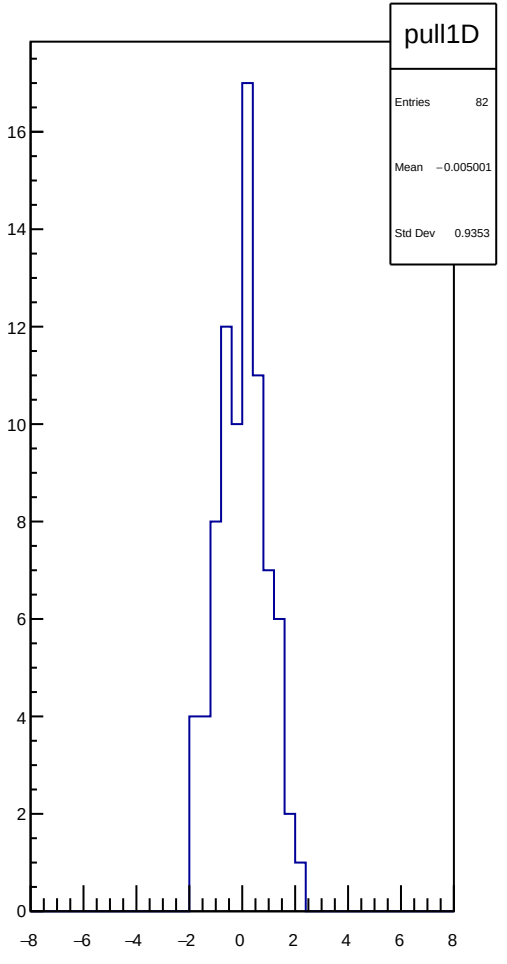

pull1D
Entries 82
Mean 0.05188
Std Dev 0.9361

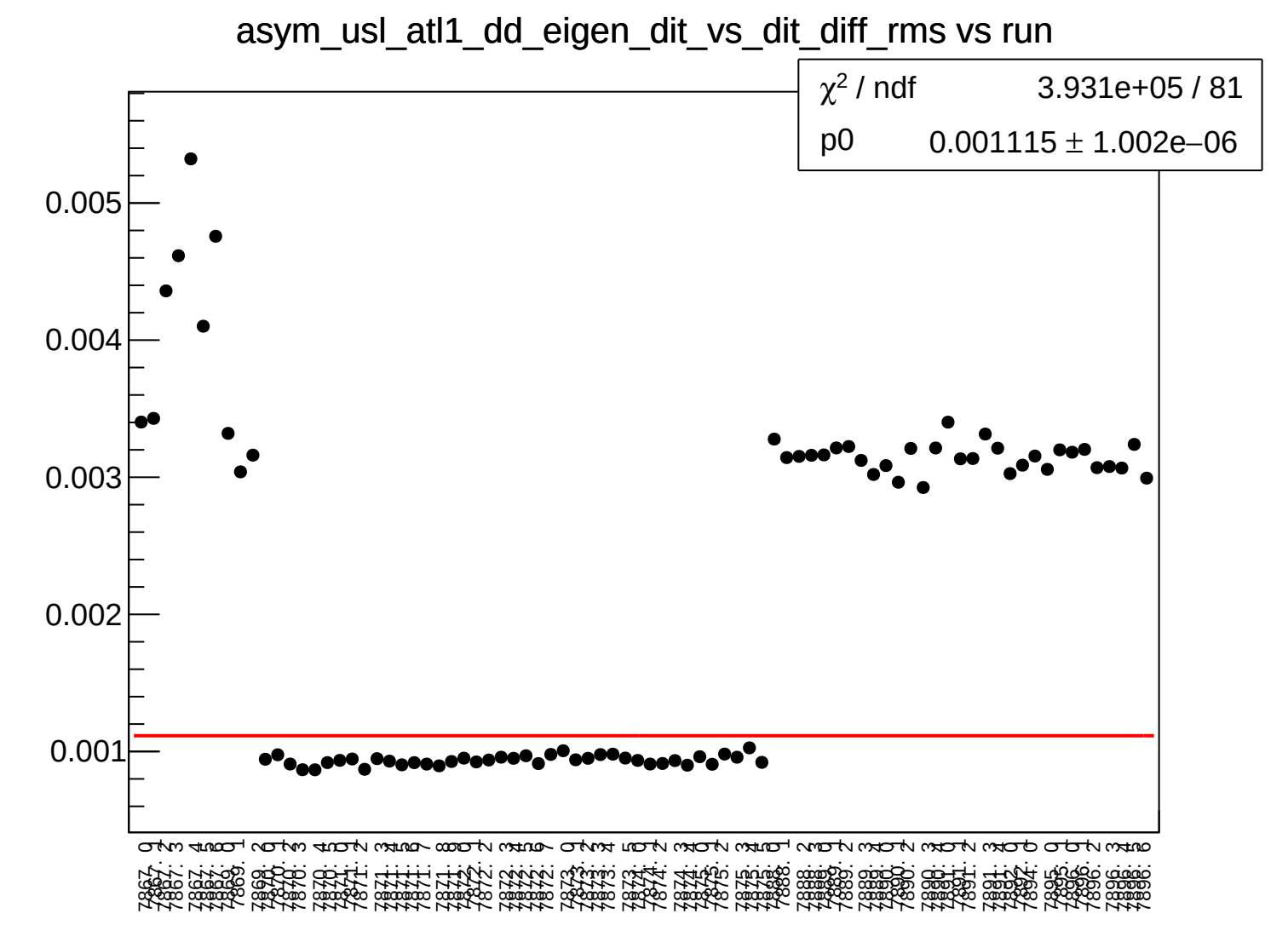

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.376e+05 / 81
p0 56.67 ± 0.04981
500
400
300
200
100

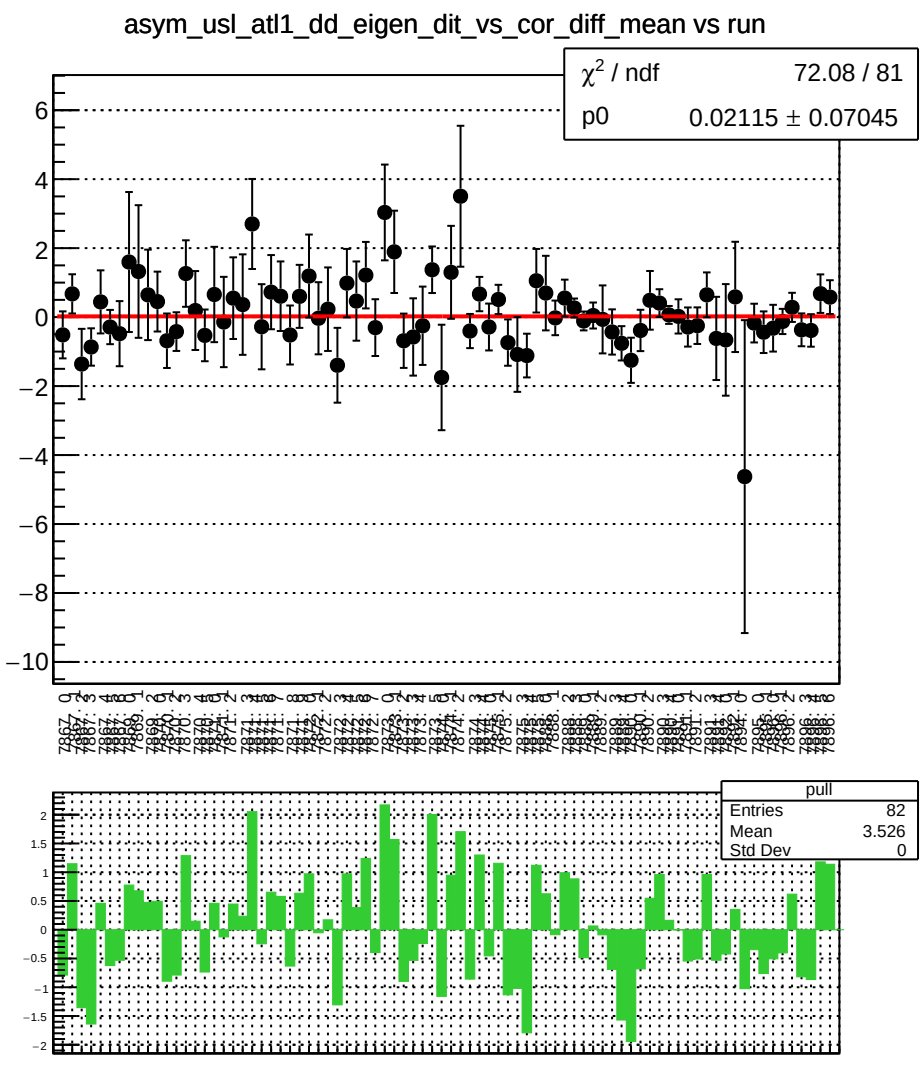

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.08 / 81
p0 0.02115 ± 0.07044
pull
Entries 82
Mean 3.525
Std Dev 0
pull1D
Entries 82
Mean 0.05188
Std Dev 0.9361

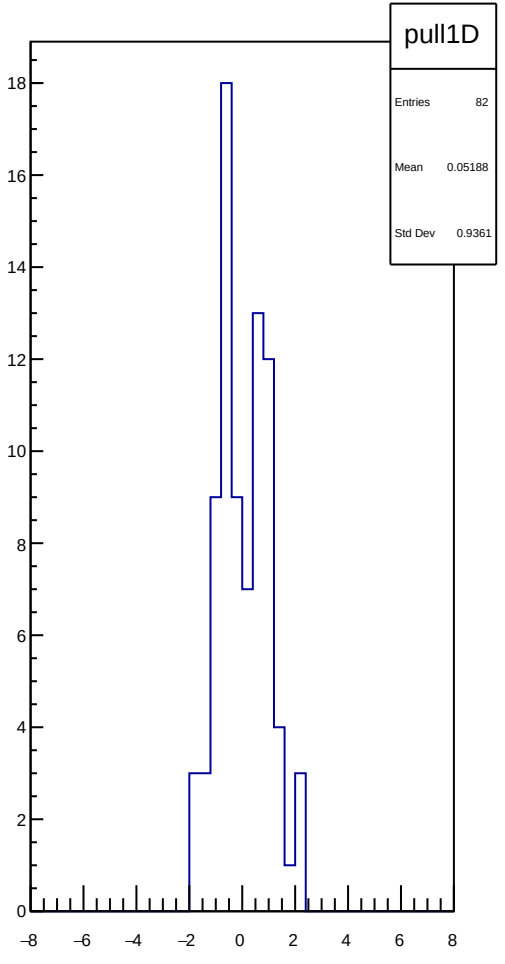

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.376e+05 / 81
p0 56.67 ± 0.04981
500
400
300
200
100

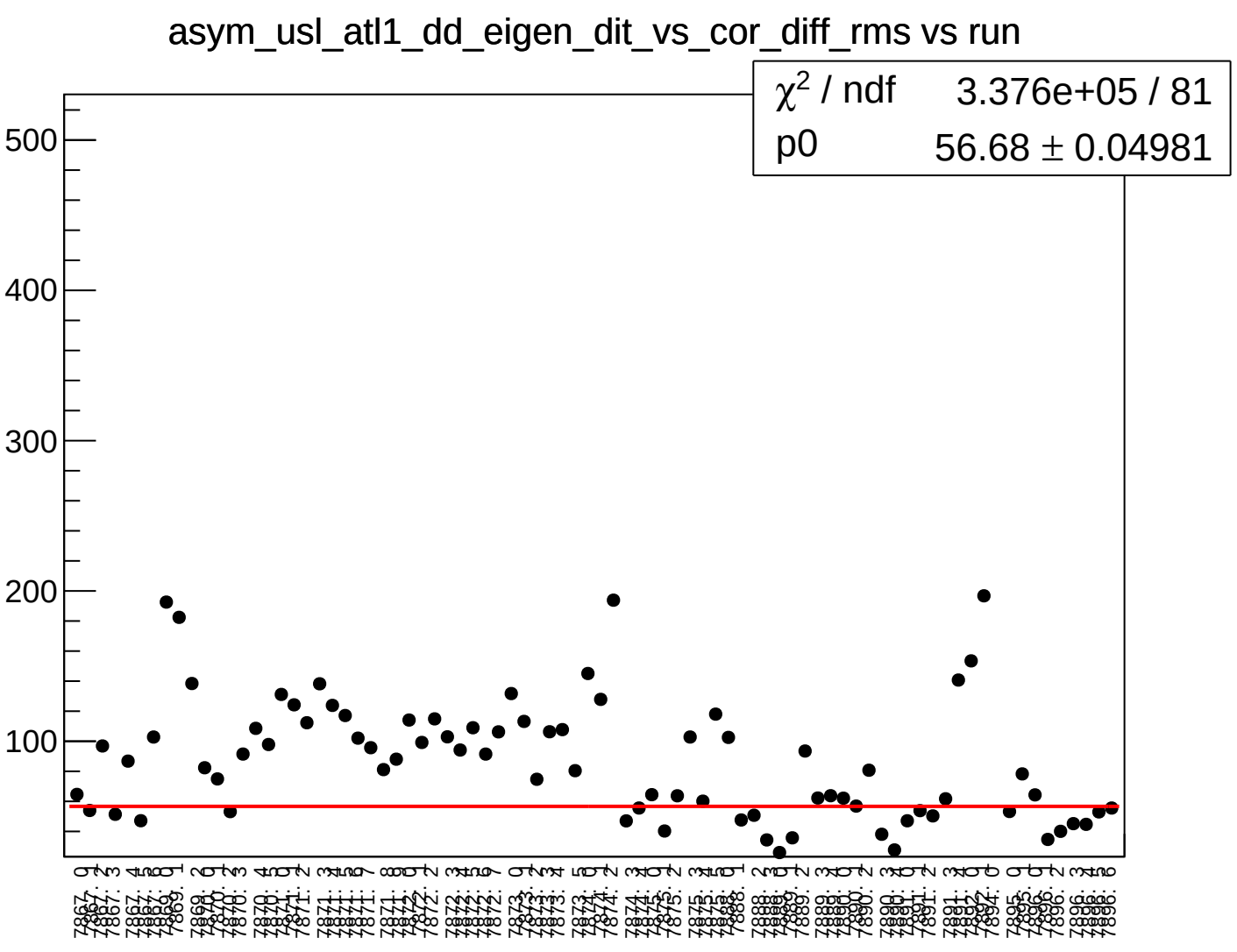

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.73 / 81
p0 −1.855e−06 ± 1.416e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −130.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

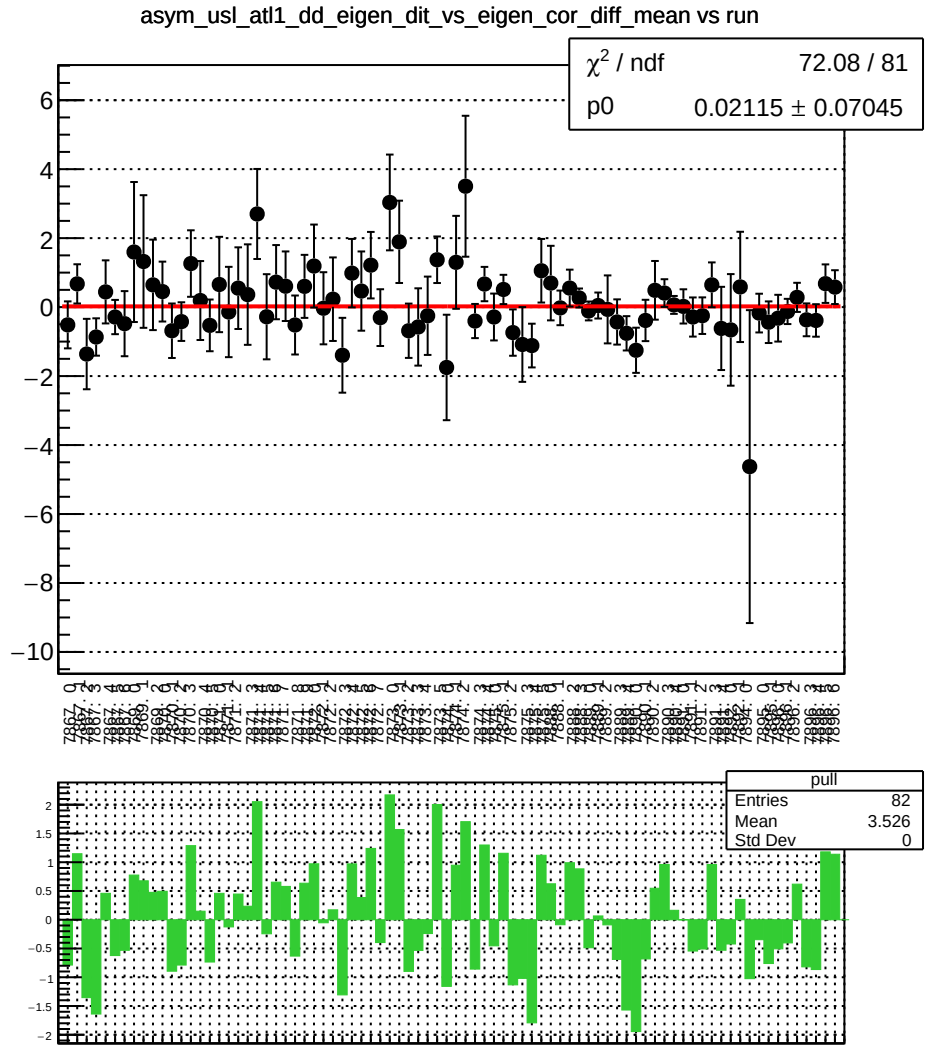

pull1D
Entries 82
Mean −0.005001
Std Dev 0.9353
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

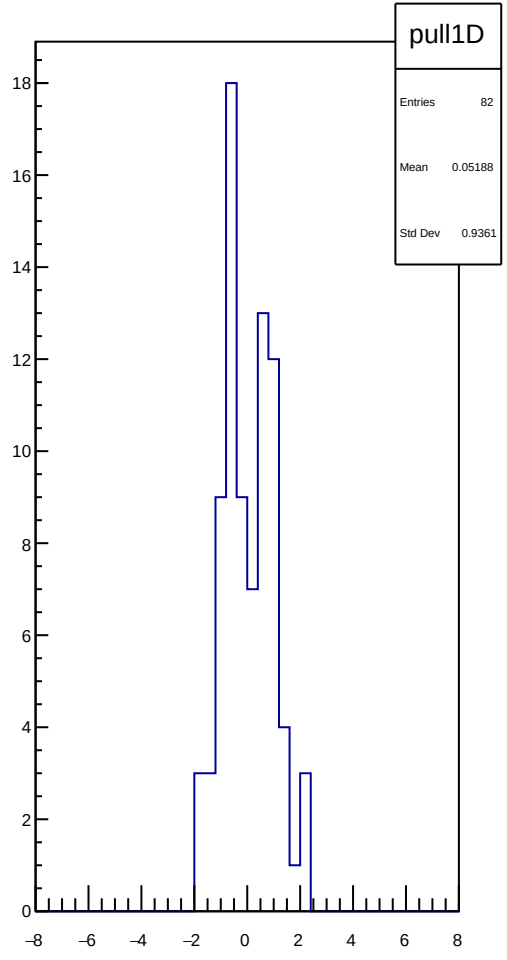

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.931e+05 / 81
p0 0.001115 ± 1.002e−06
0.005
0.004
0.003
0.002
0.001

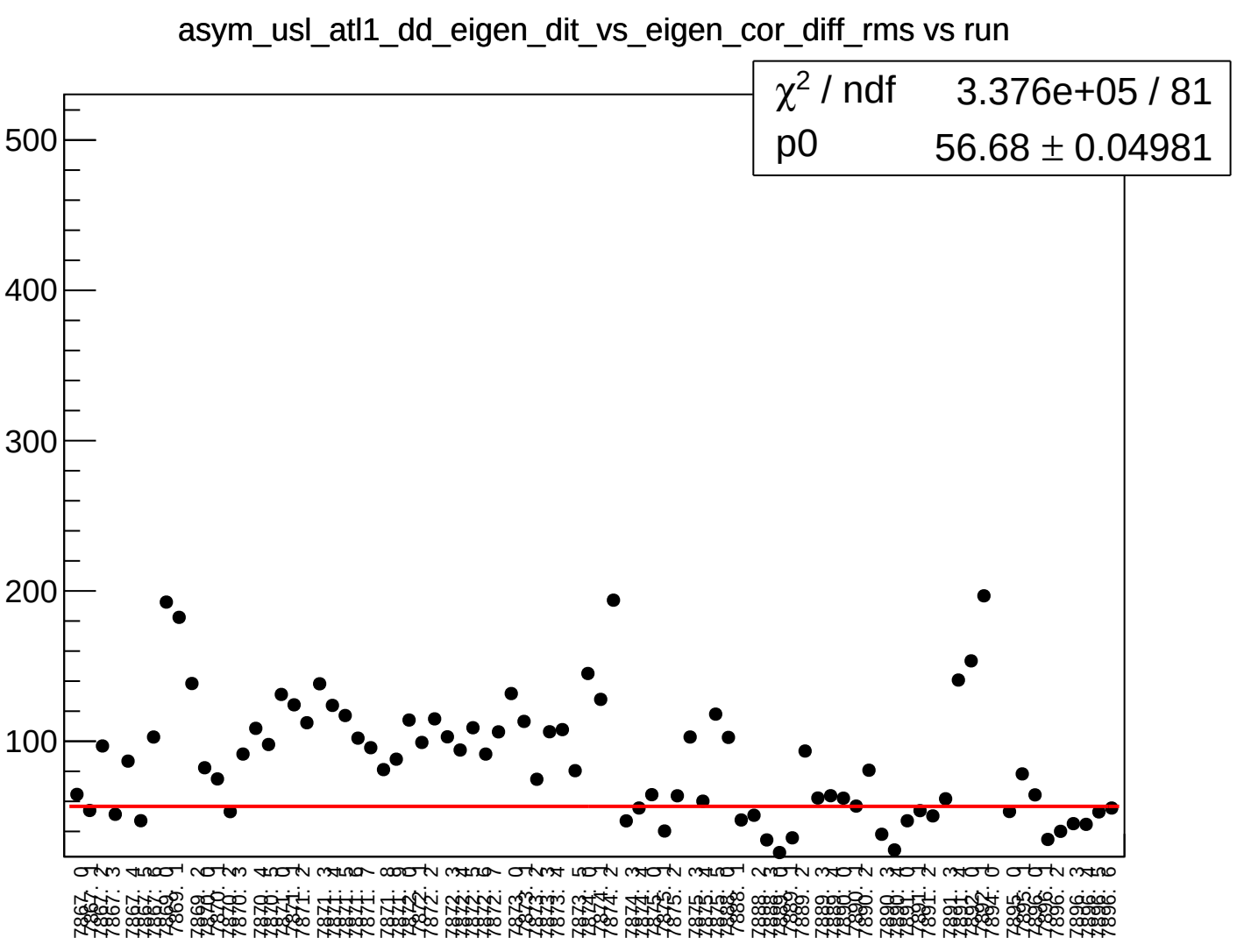

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.08 / 81
p0 0.02115 ± 0.07045
pull
Entries 82
Mean 3.526
Std Dev 0

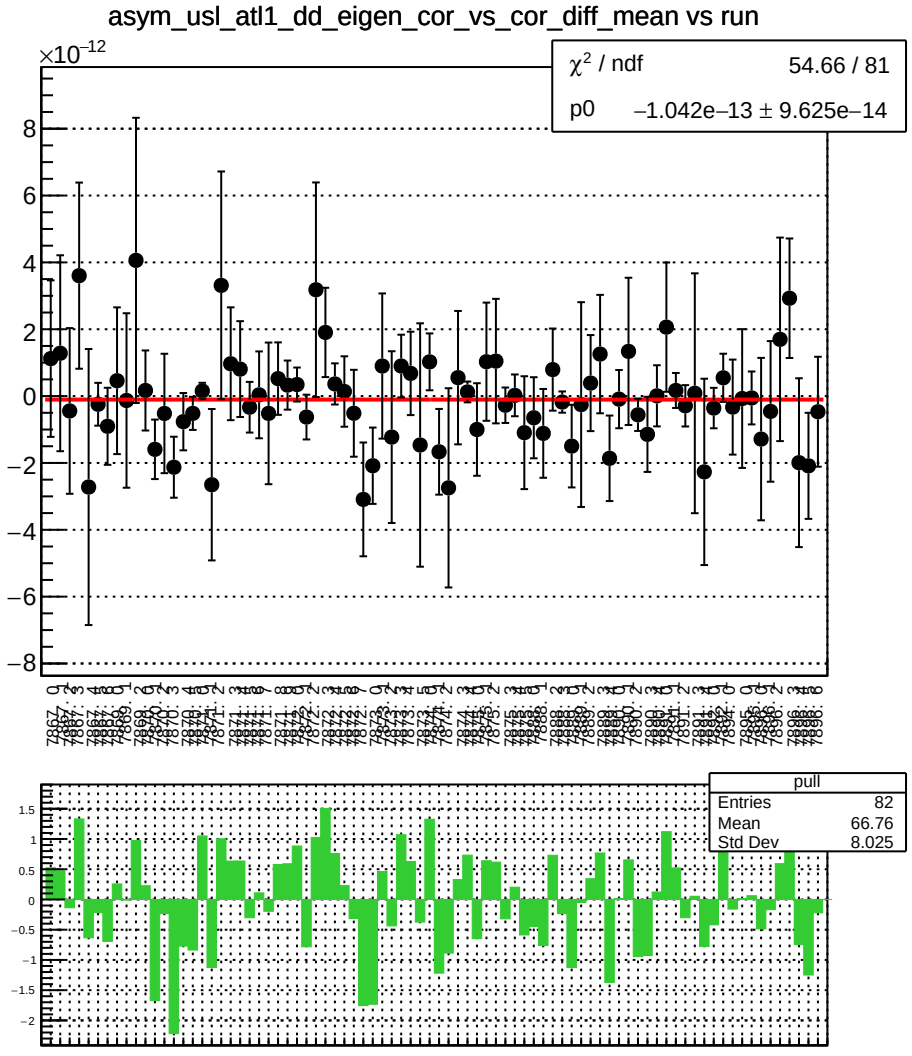

pull1D
Entries 82
Mean 0.05188
Std Dev 0.9361

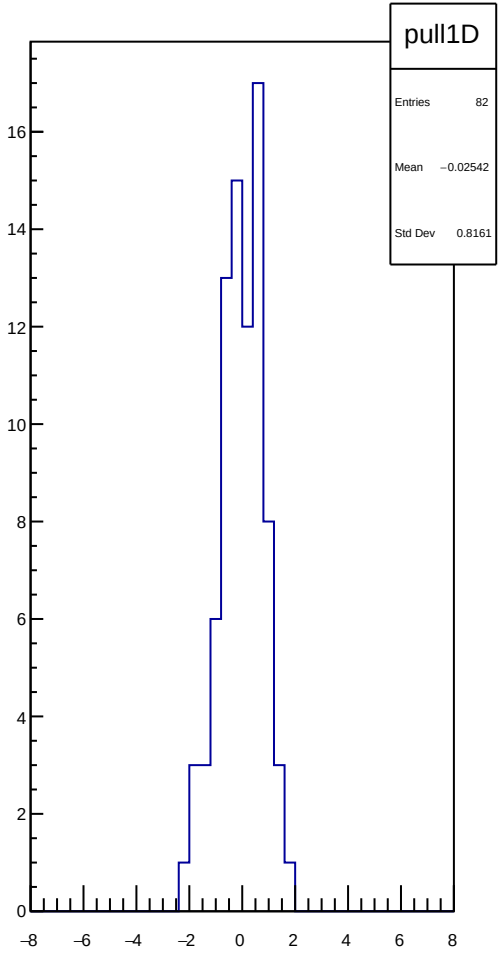

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.376e+05 / 81
p0 56.68 ± 0.04981
500
400
300
200
100

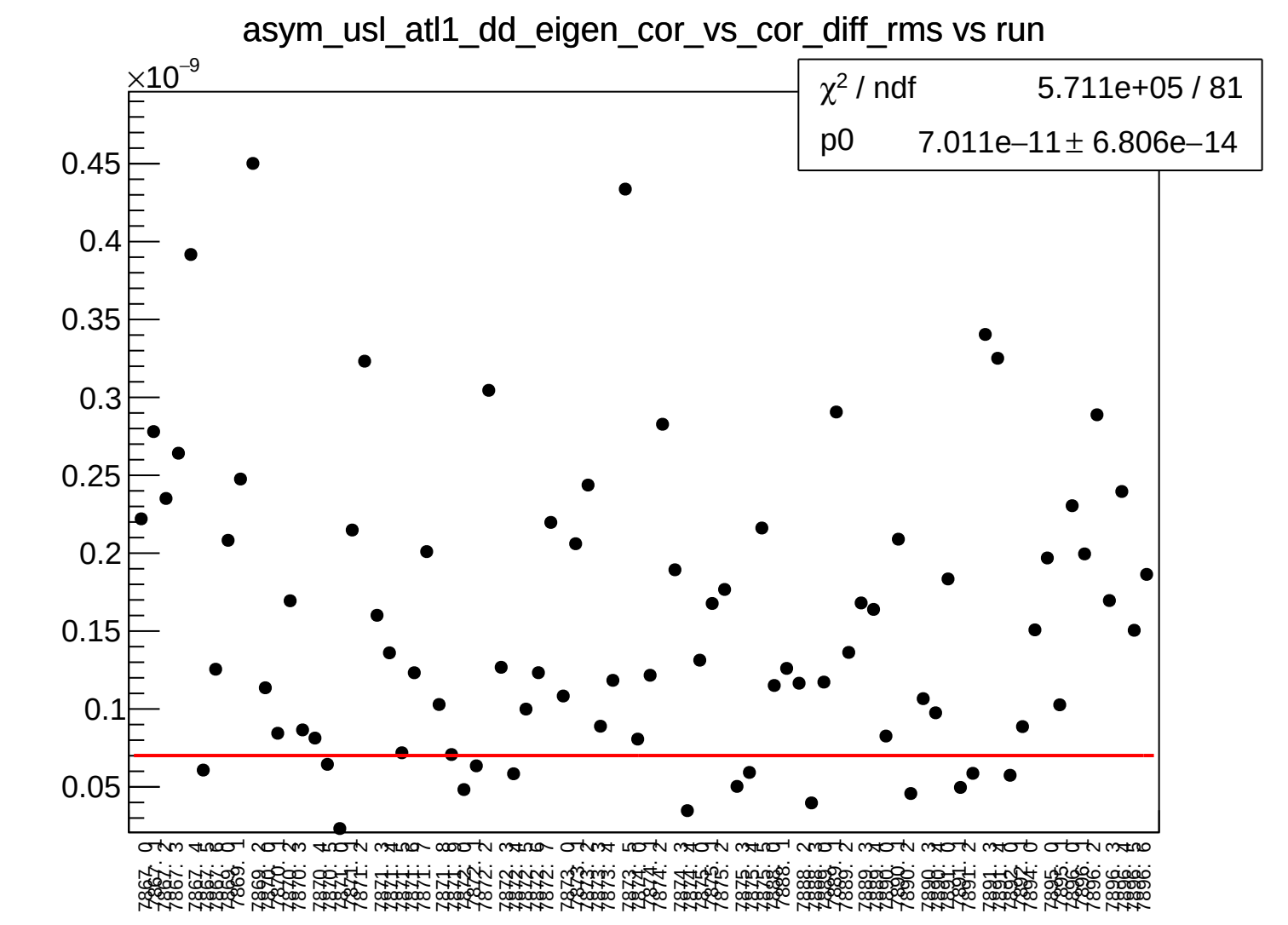

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.08 / 81
p0 0.02115 ± 0.07045
pull
Entries 82
Mean 3.526
Std Dev 0

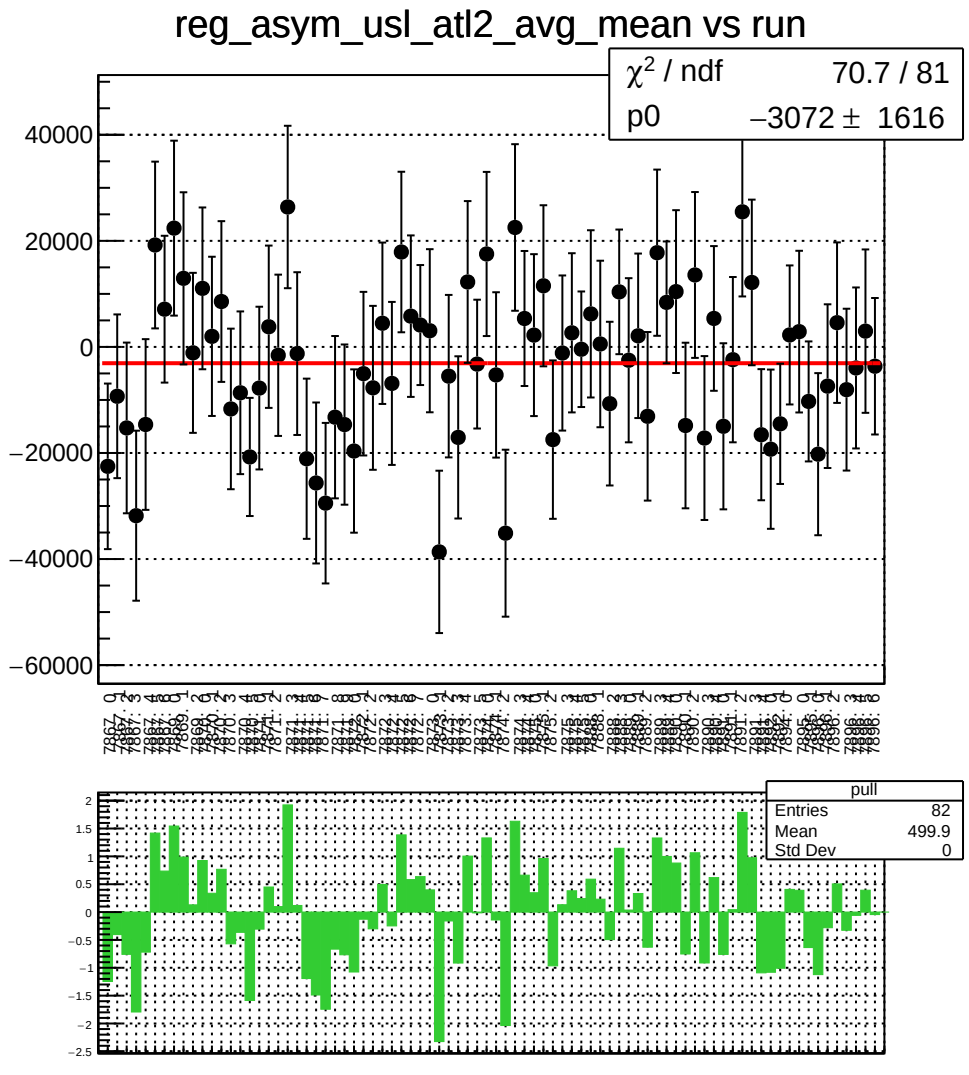

pull1D
Entries 82
Mean 0.05188
Std Dev 0.9361

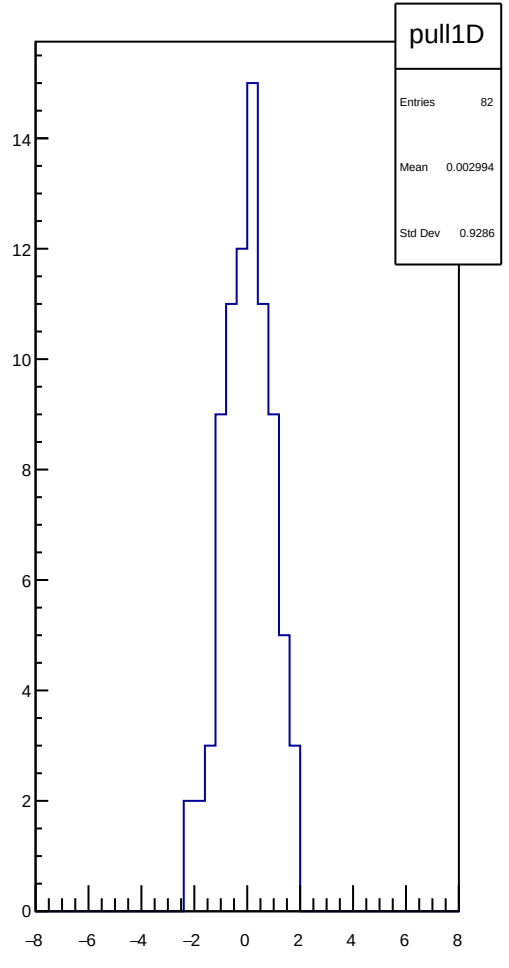

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.376e+05 / 81
p0 56.68 ± 0.04981
500
400
300
200
100

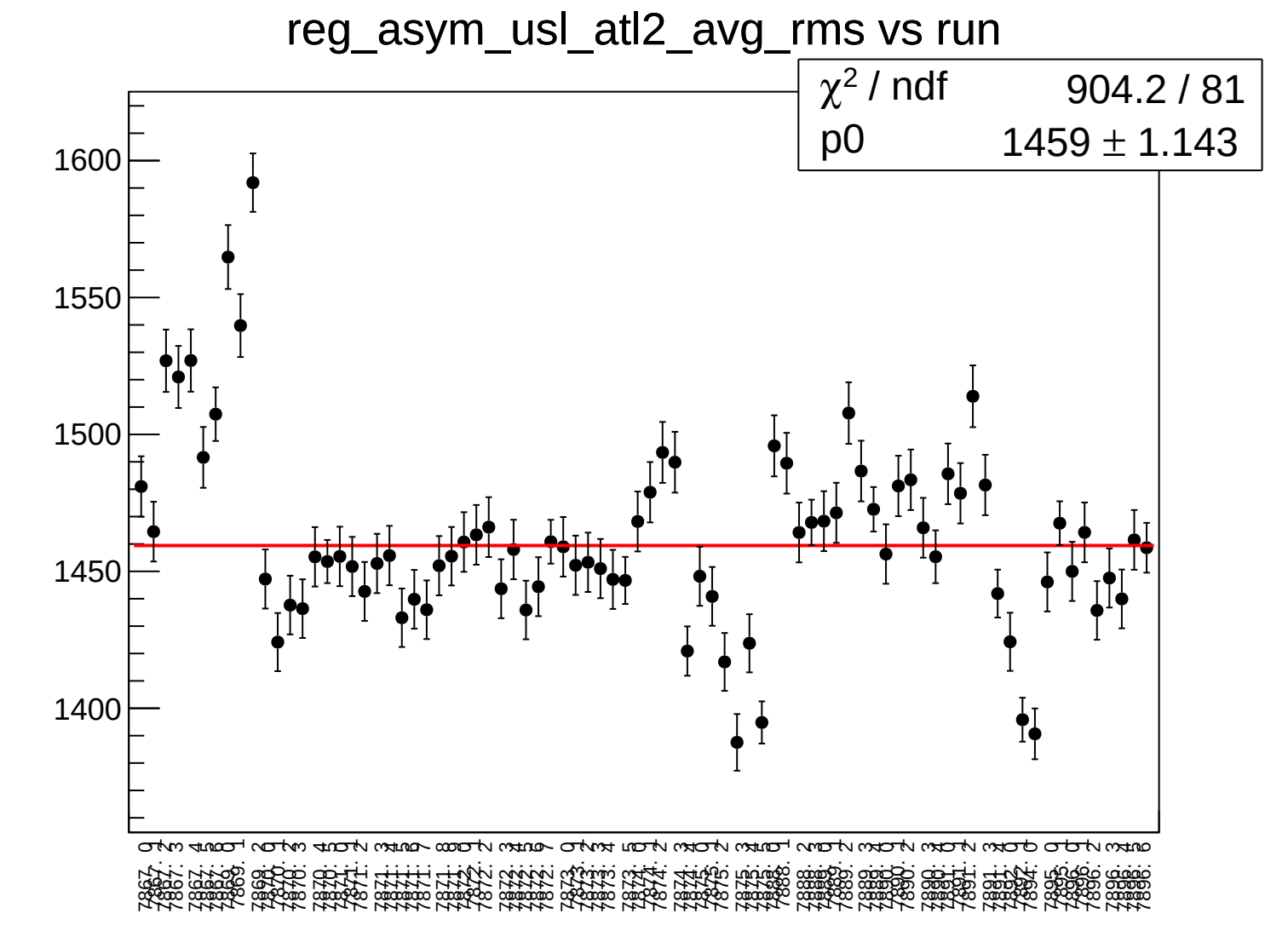

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.66 / 81
p0 −1.042e−13 ± 9.625e−14
pull
Entries 82
Mean 66.76
Std Dev 8.025

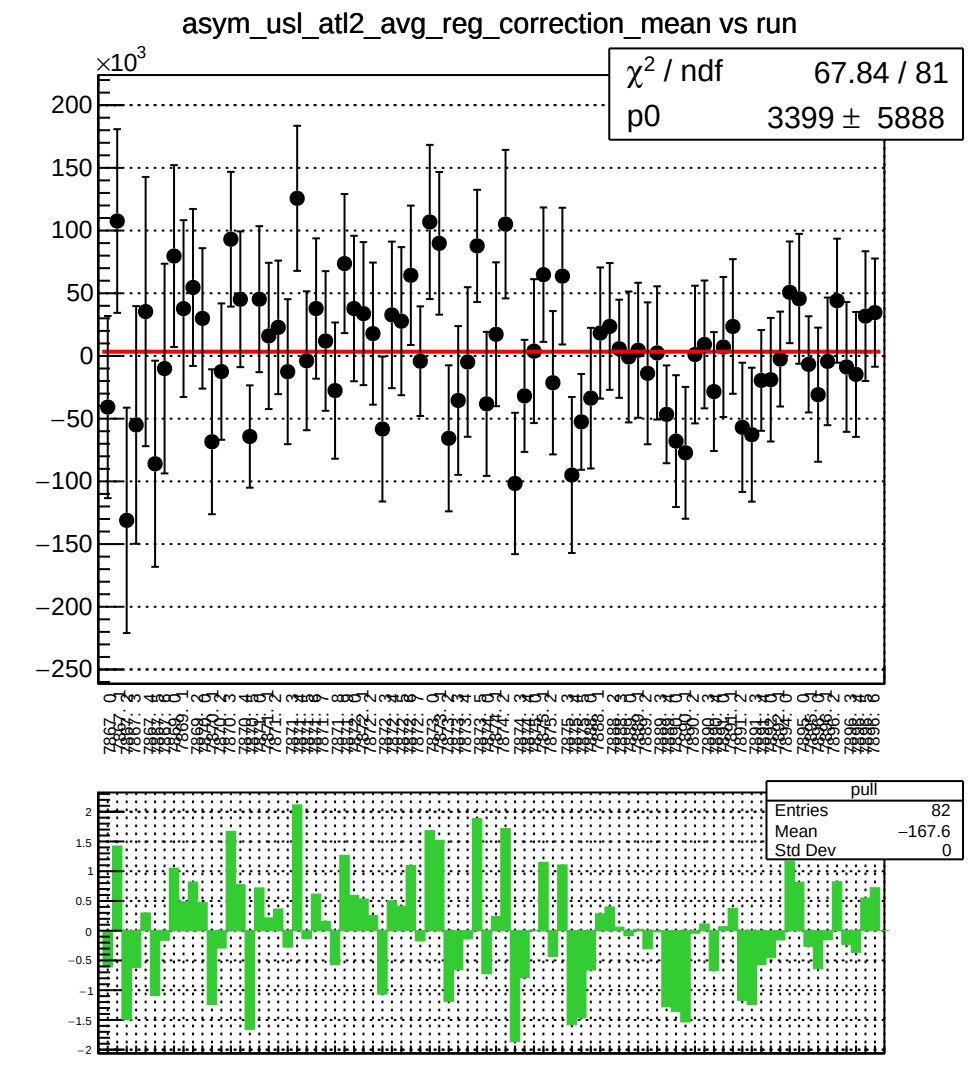

pull1D
Entries 82
Mean −0.02542
Std Dev 0.8161

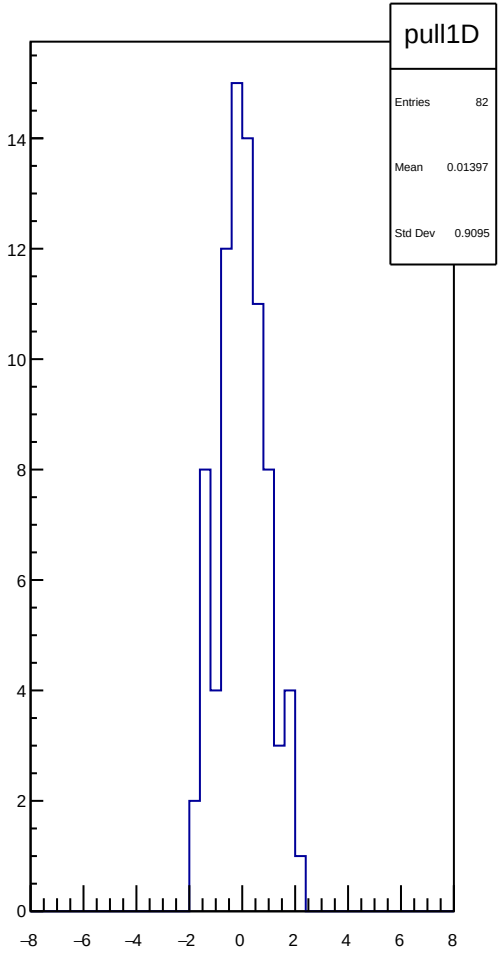

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.711e+05 / 81
p0 7.011e−11 ± 6.806e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

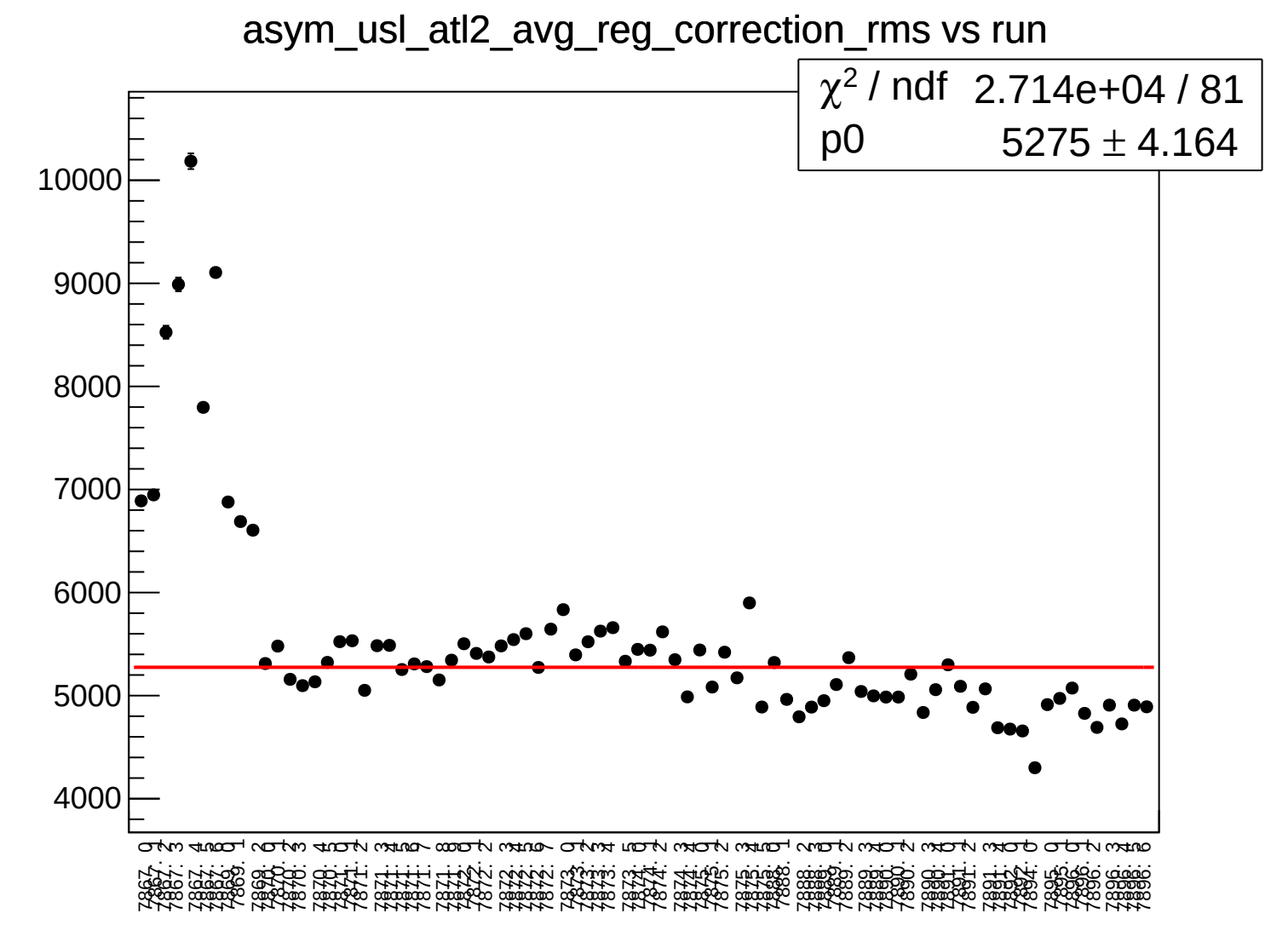

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 70.7 / 81
p0 −3072 ± 1616
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 499.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

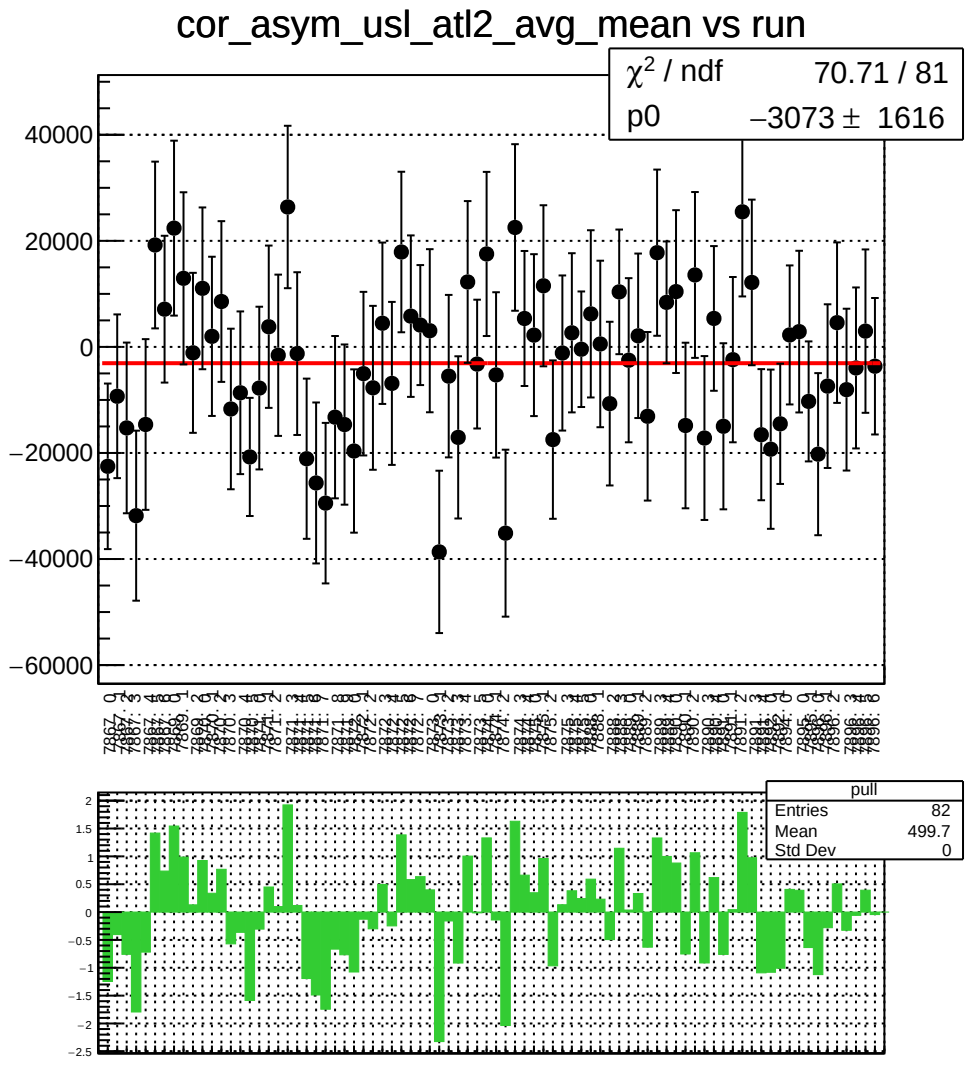

pull1D
Entries 82
Mean 0.002994
Std Dev 0.9286
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

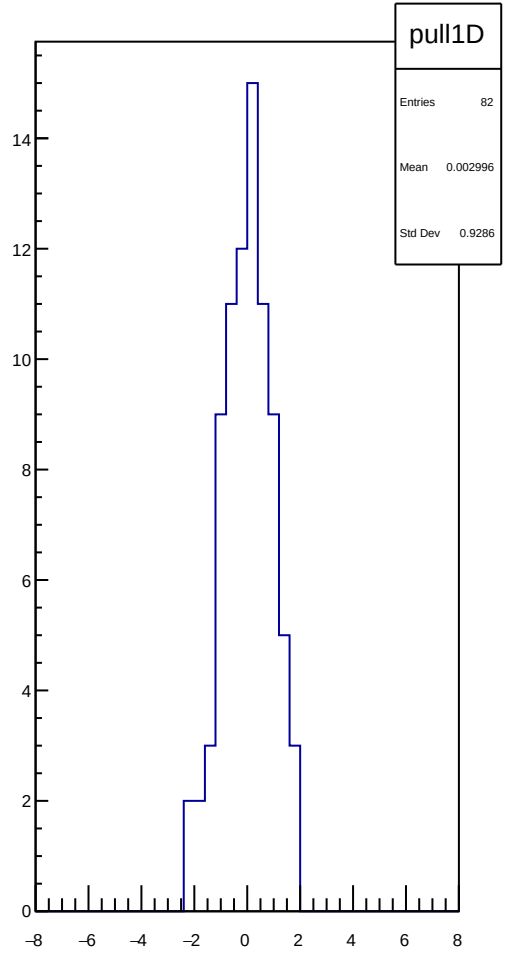

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 904.2 / 81
p0 1459 ± 1.143
1600
1550
1500
1450
1400

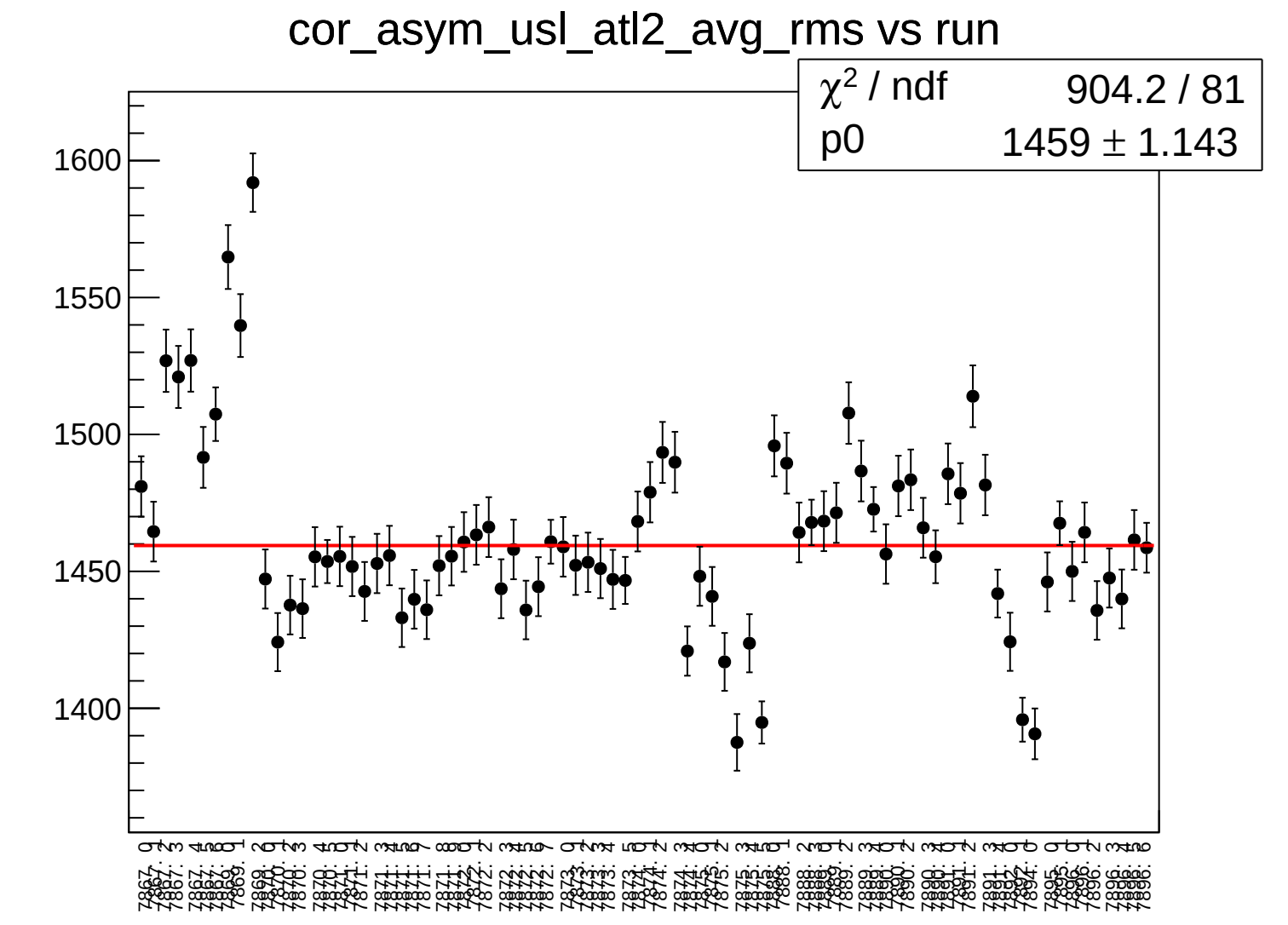

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.84 / 81
p0 3399 ± 5888
pull
Entries 82
Mean −167.6
Std Dev 0

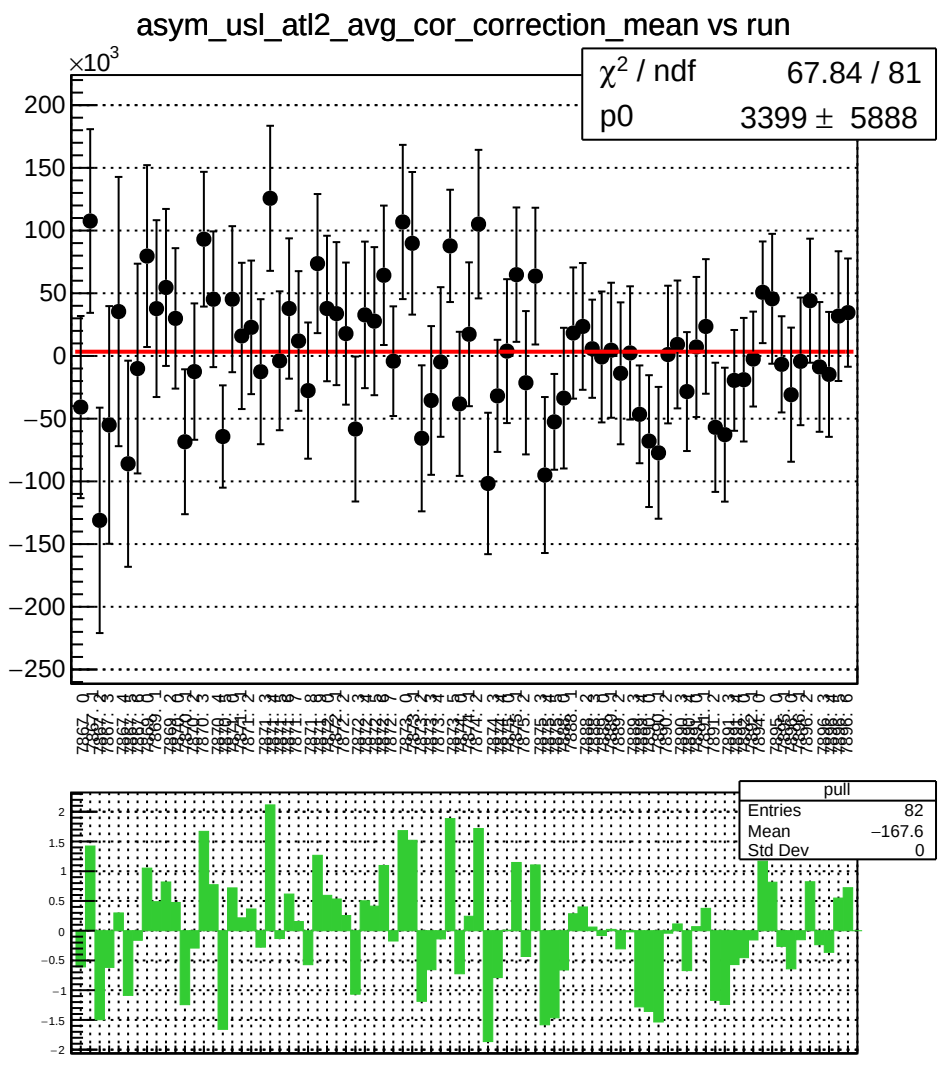

pull1D
Entries 82
Mean 0.01397
Std Dev 0.9095

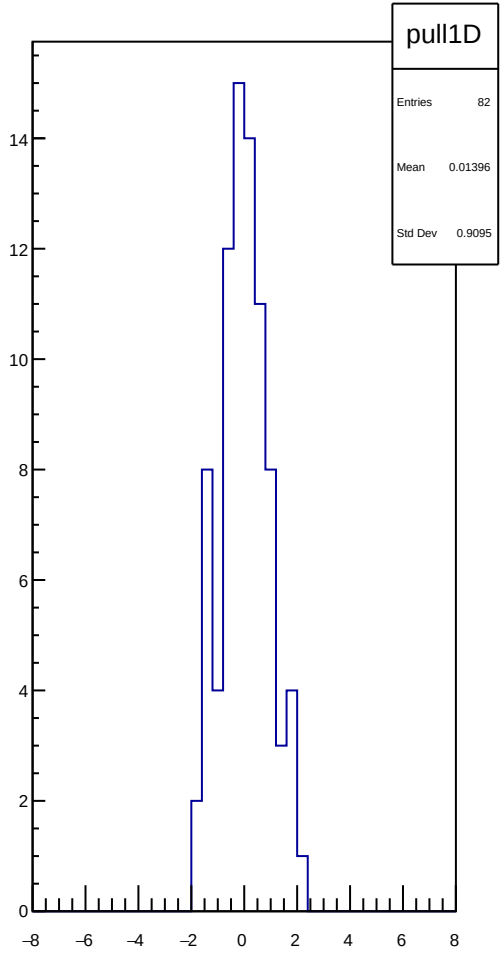

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2.714e+04 / 81
p0 5275 ± 4.164
10000
9000
8000
7000
6000
5000
4000

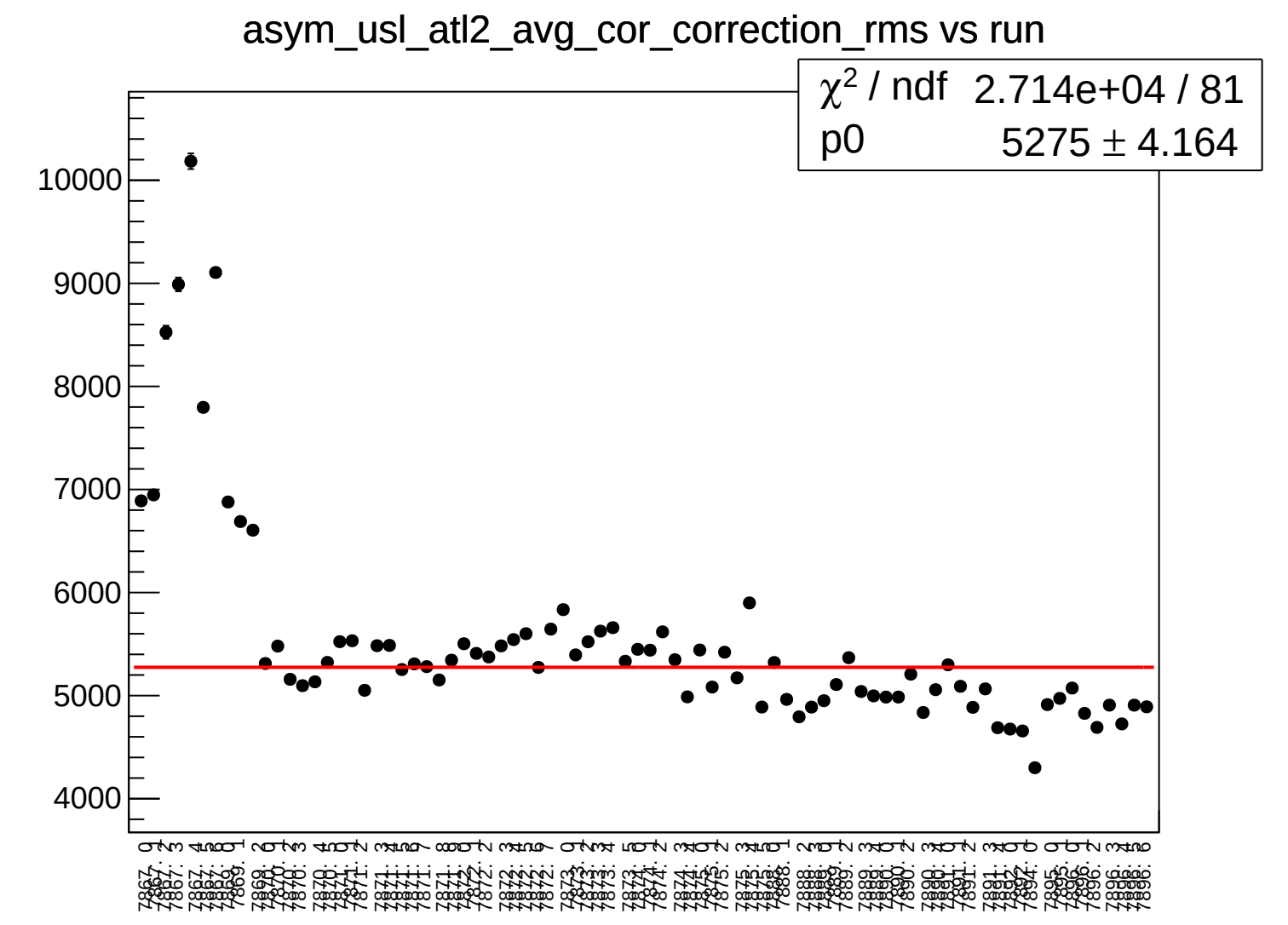

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 70.71 / 81
p0 −3073 ± 1616
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 499.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

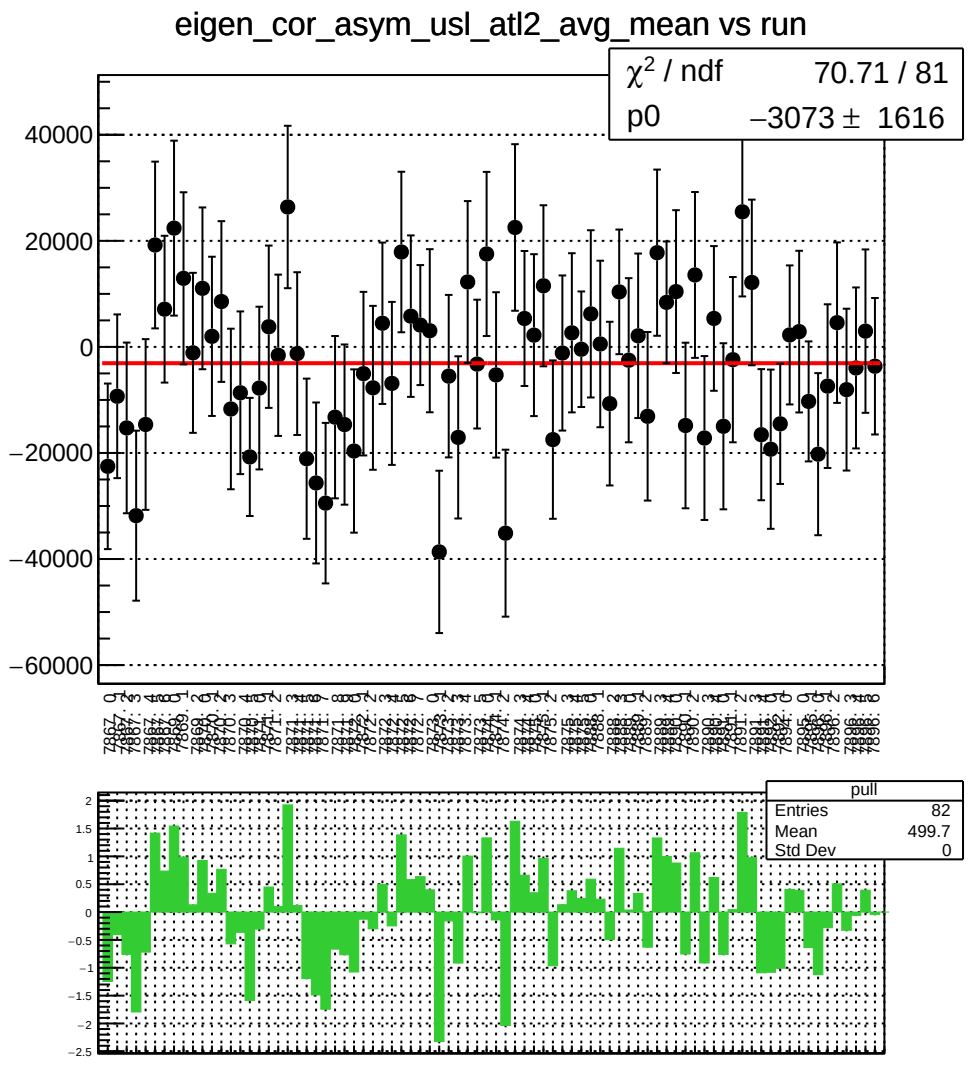

pull1D
Entries 82
Mean 0.002996
Std Dev 0.9286
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

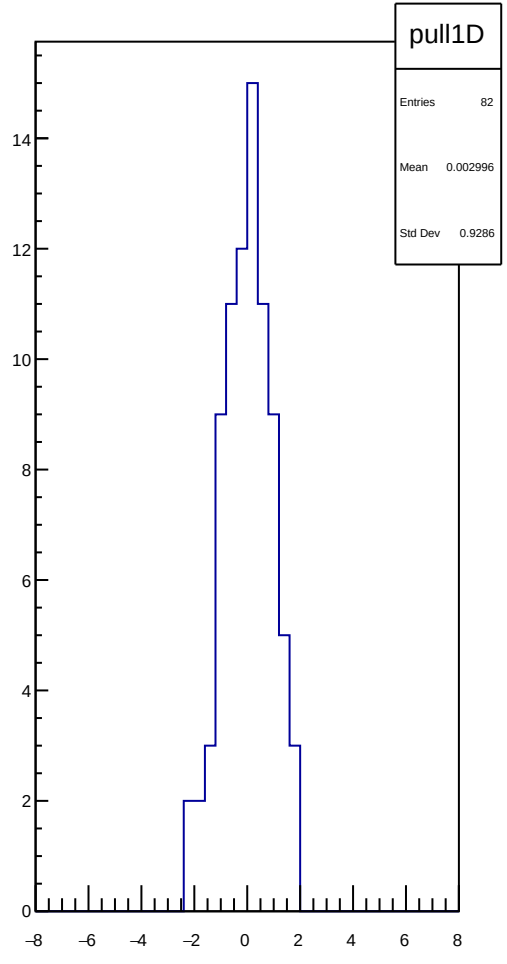

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 904.2 / 81
p0 1459 ± 1.143
1600
1550
1500
1450
1400

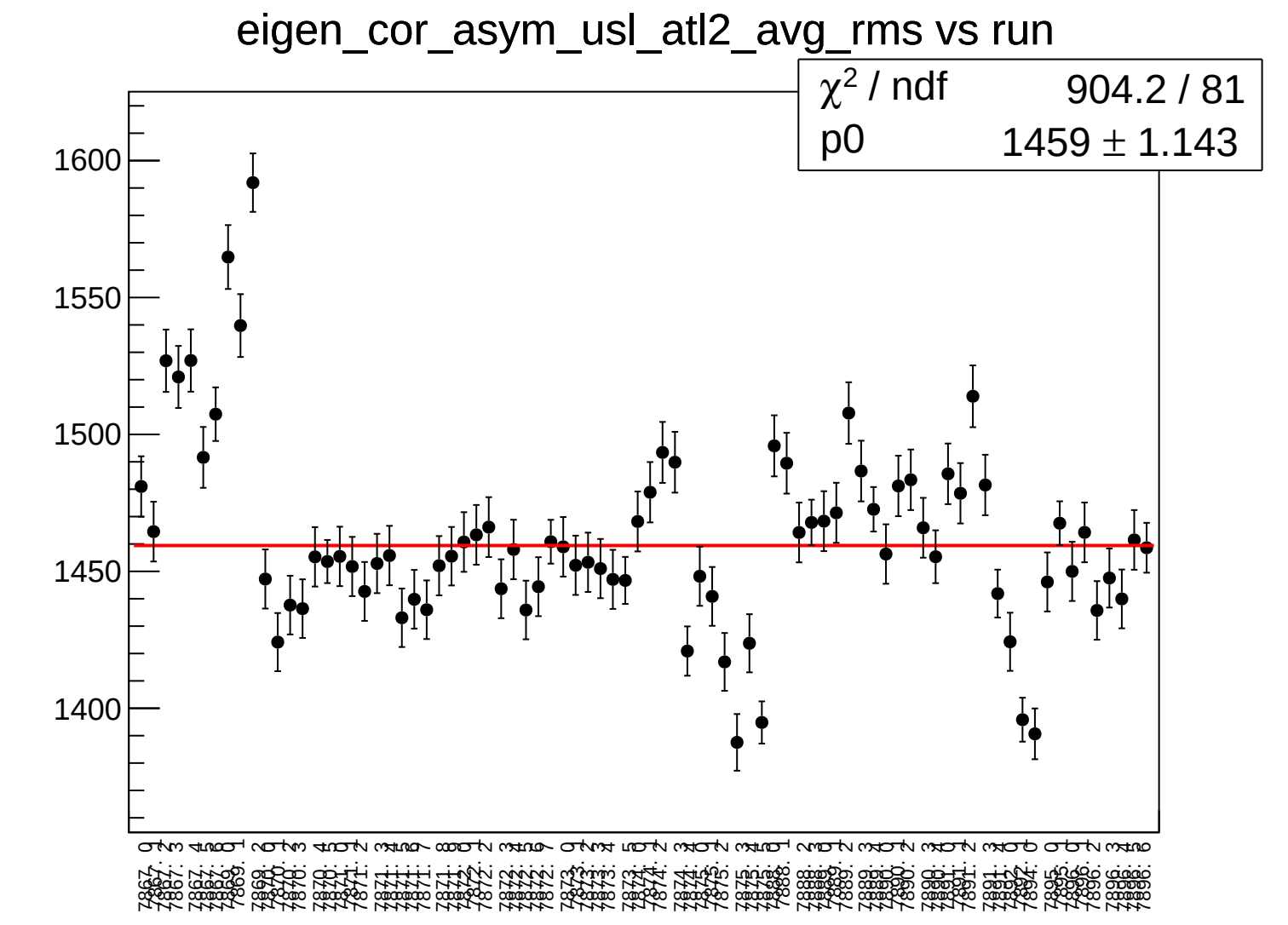

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 67.84 / 81
p0 3399 ± 5888
pull
Entries 82
Mean −167.6
Std Dev 0

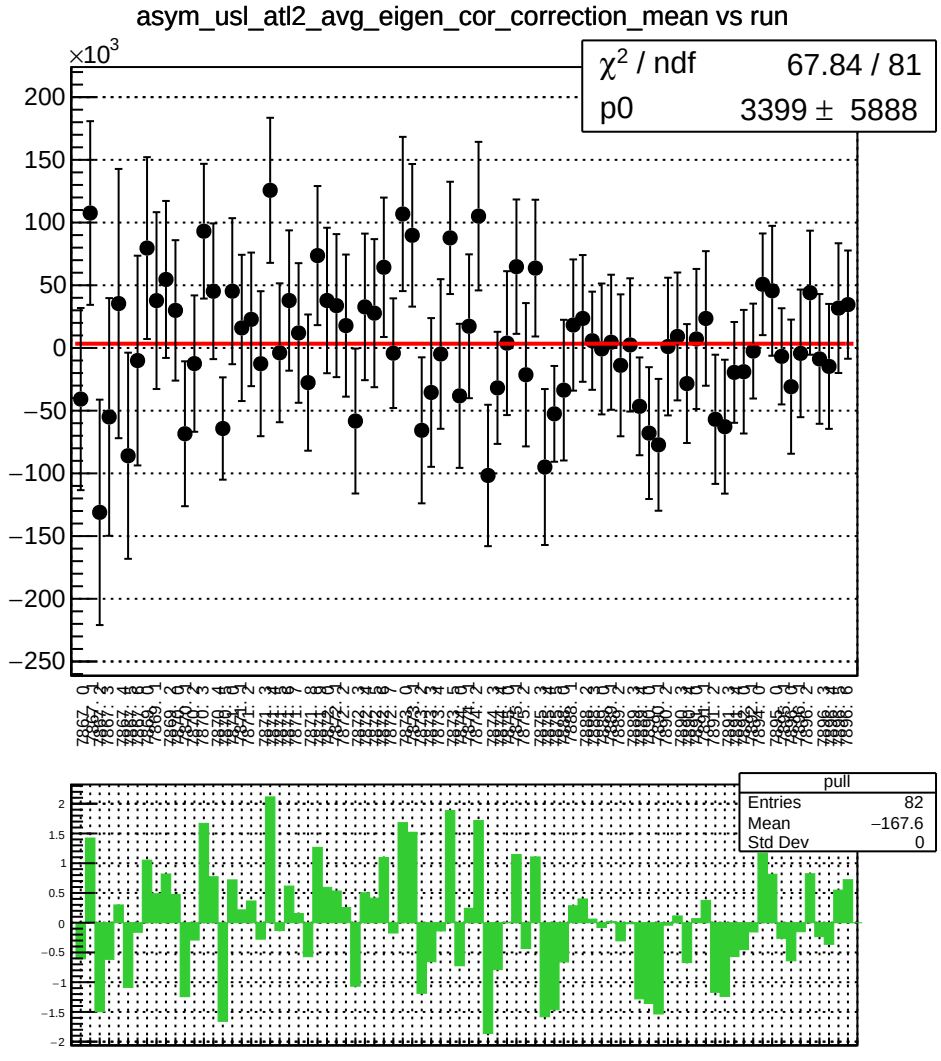

pull1D
Entries 82
Mean 0.01396
Std Dev 0.9095

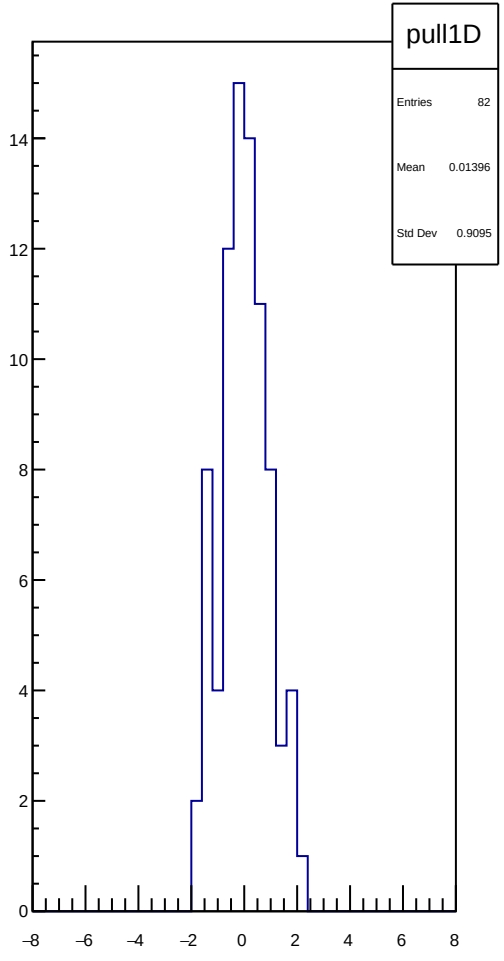

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2.714e+04 / 81
p0 5275 ± 4.164
10000
9000
8000
7000
6000
5000
4000

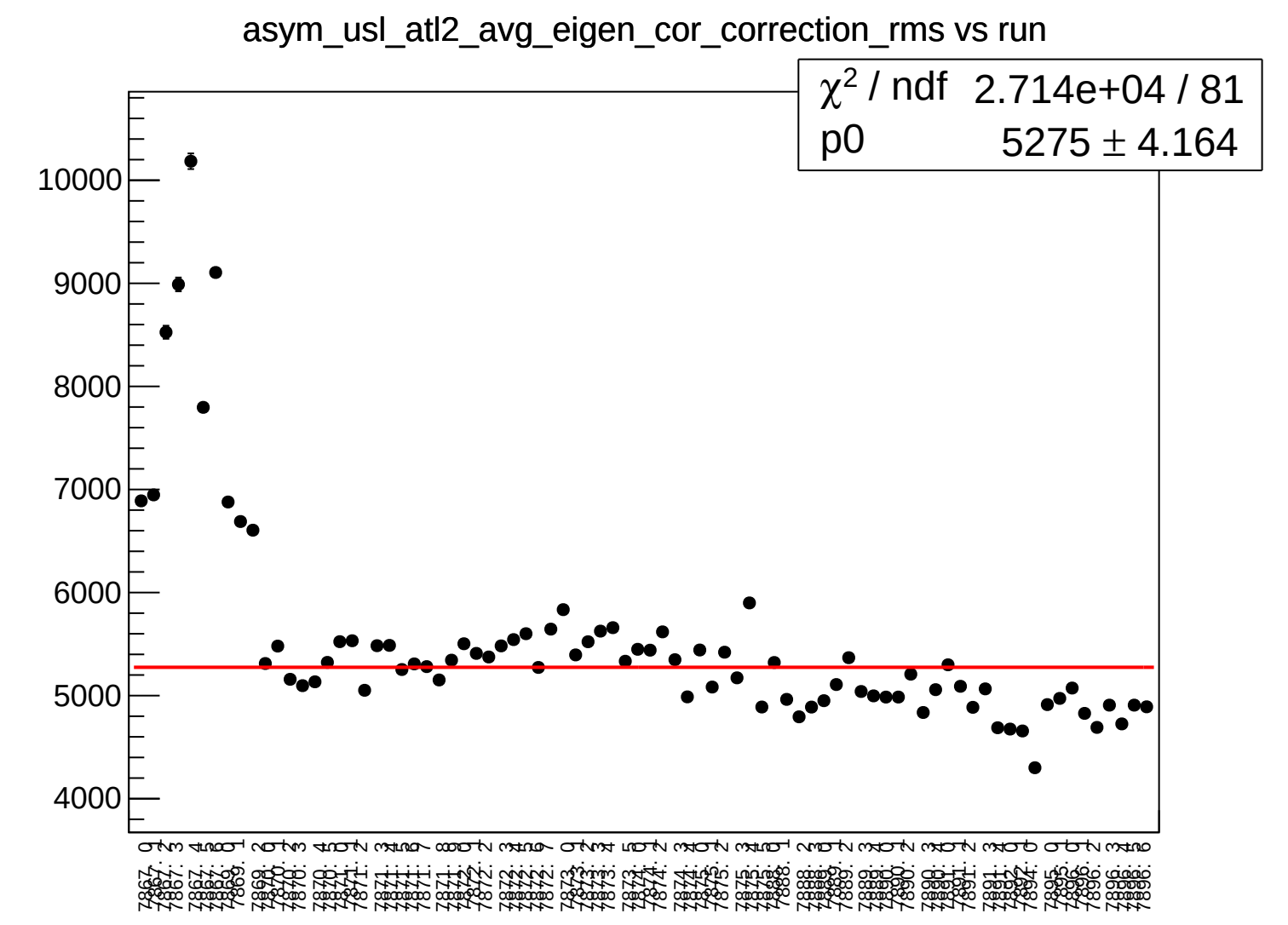

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 70.71 / 81
p0 −3073 ± 1616
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 499.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

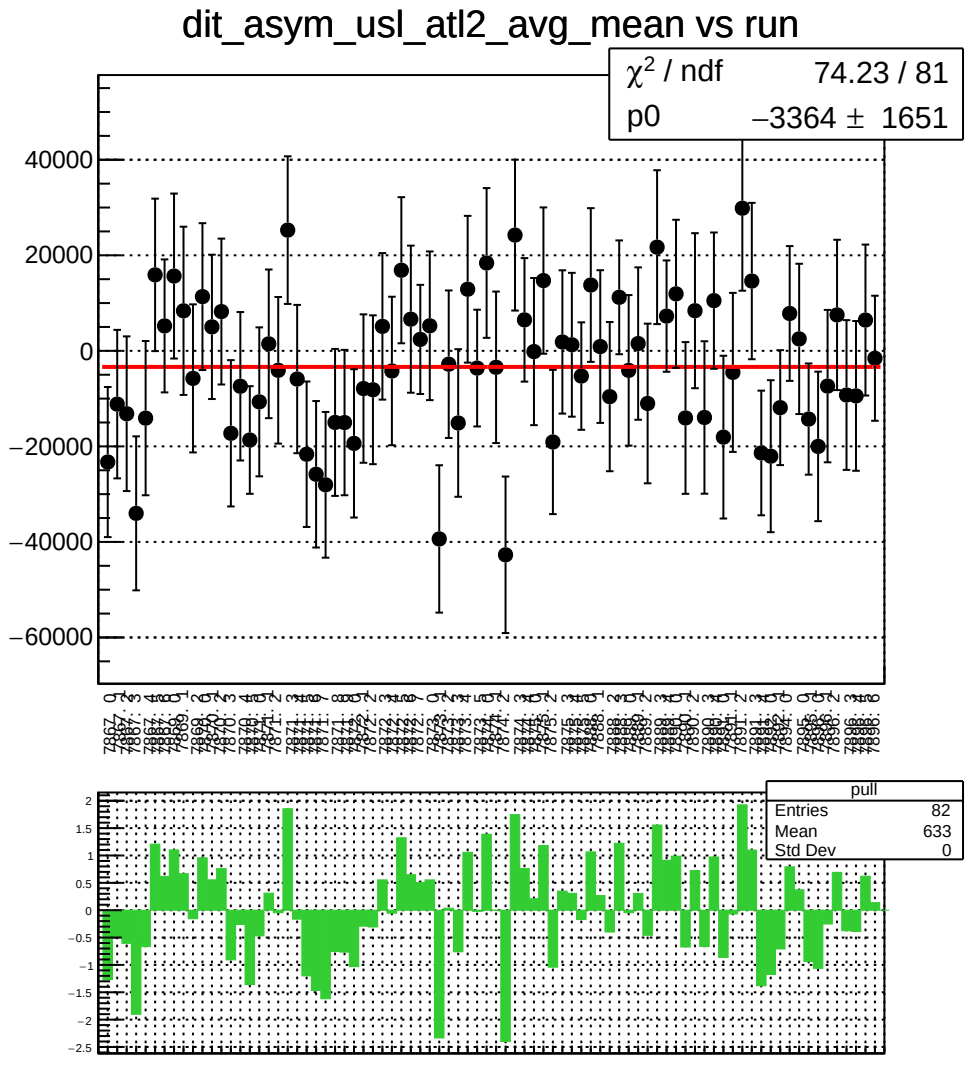

pull1D
Entries 82
Mean 0.002996
Std Dev 0.9286
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

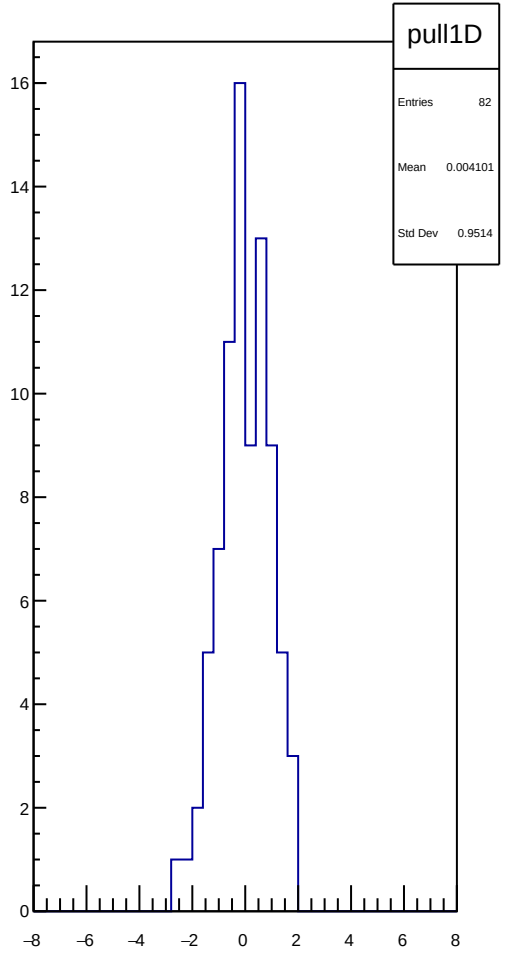

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 904.2 / 81
p0 1459 ± 1.143
1600
1550
1500
1450
1400

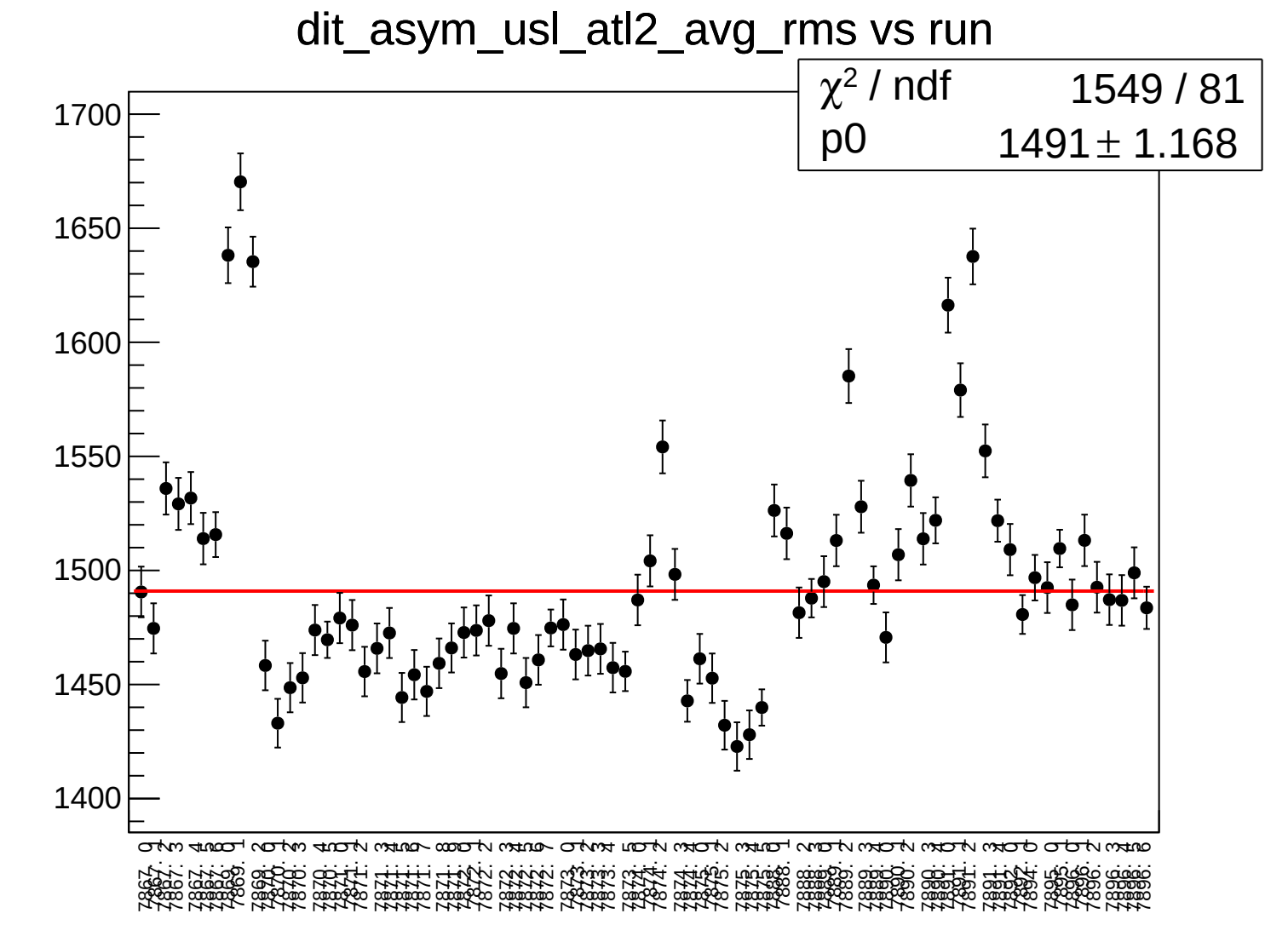

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.84 / 81
p0 3399 ± 5888
pull
Entries 82
Mean −167.6
Std Dev 0

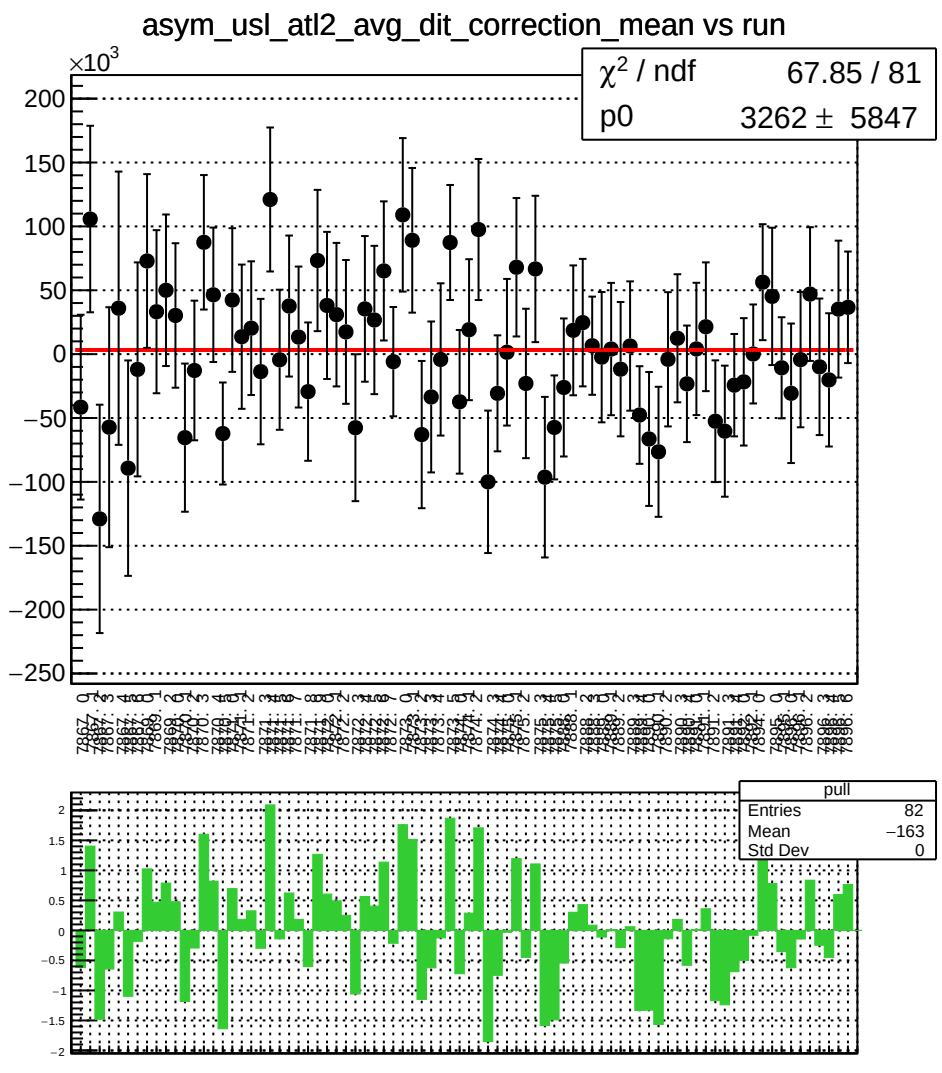

pull1D
Entries 82
Mean 0.01396
Std Dev 0.9095

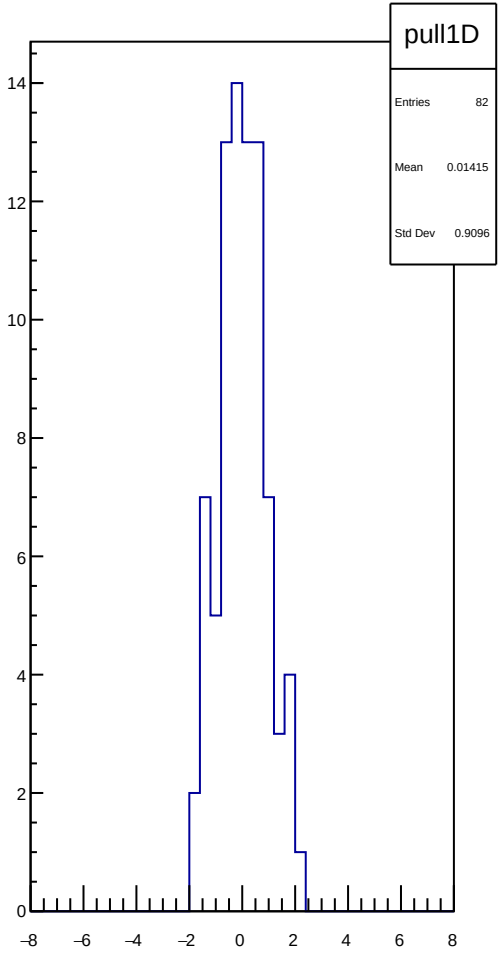

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.714e+04 / 81
p0 5275 ± 4.164
10000
9000
8000
7000
6000
5000
4000

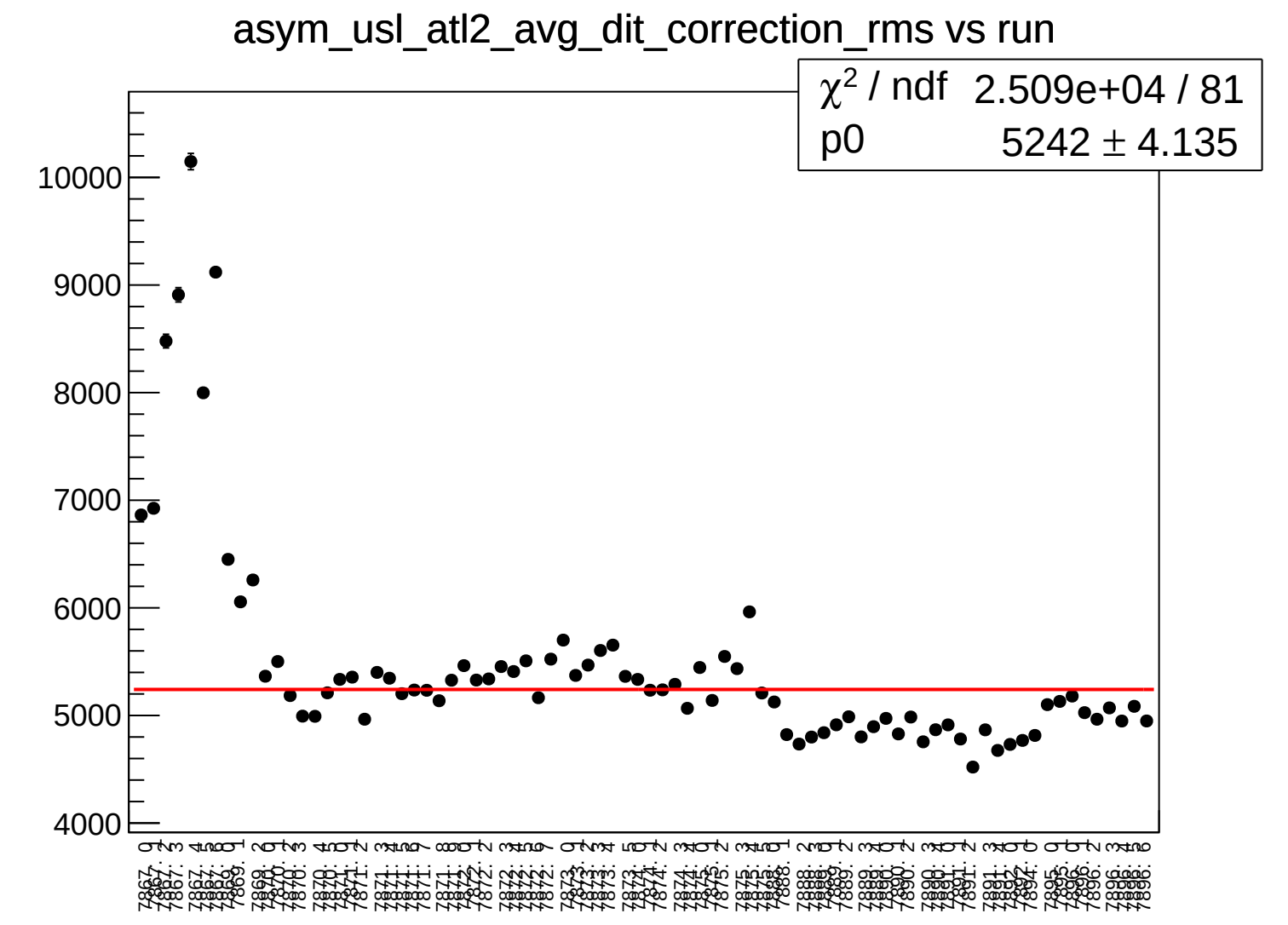

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 74.23 / 81
p0 −3364 ± 1651
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 633
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

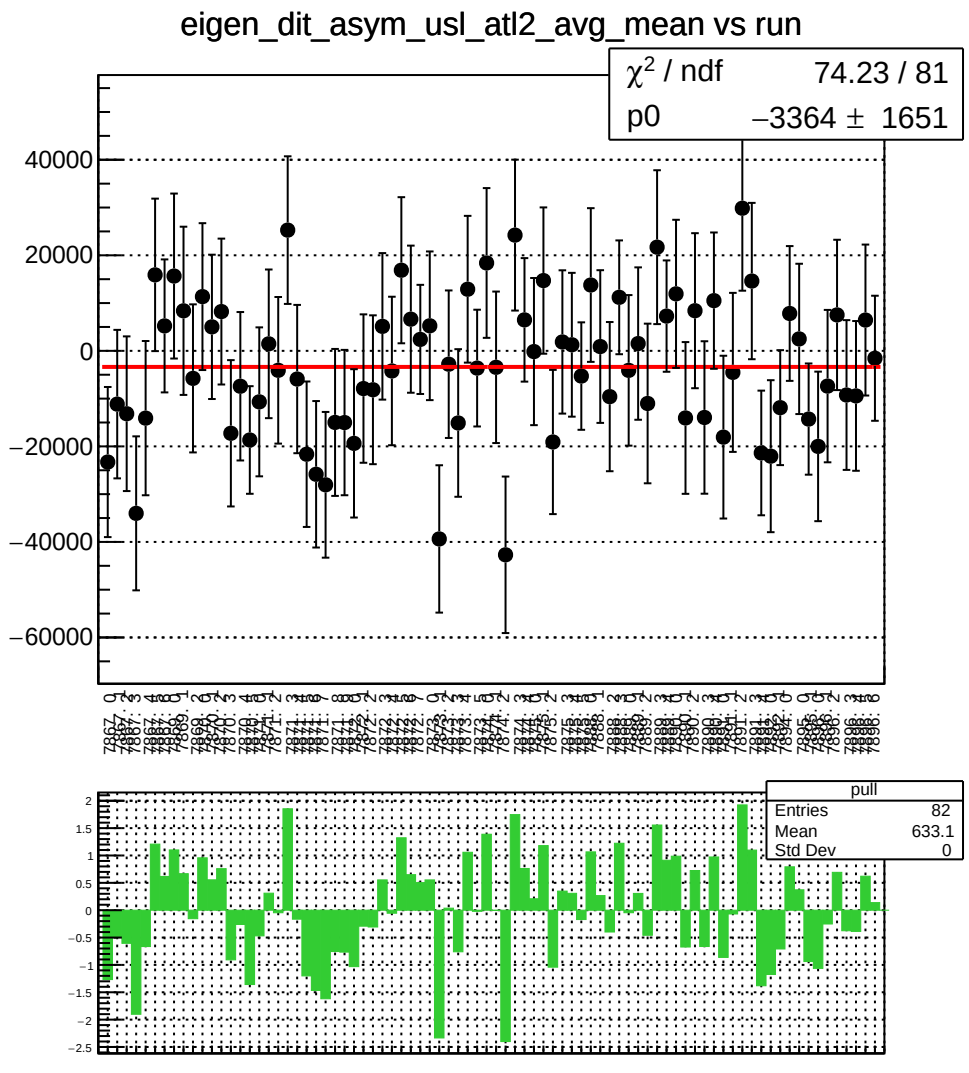

pull1D
Entries 82
Mean 0.004101
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

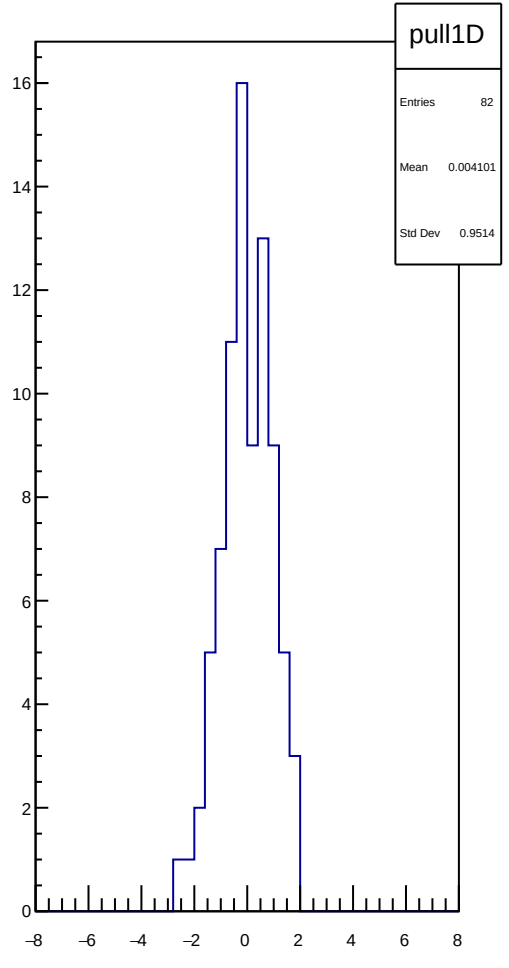

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1549 / 81
p0 1491 ± 1.168
1700
1650
1600
1550
1500
1450
1400

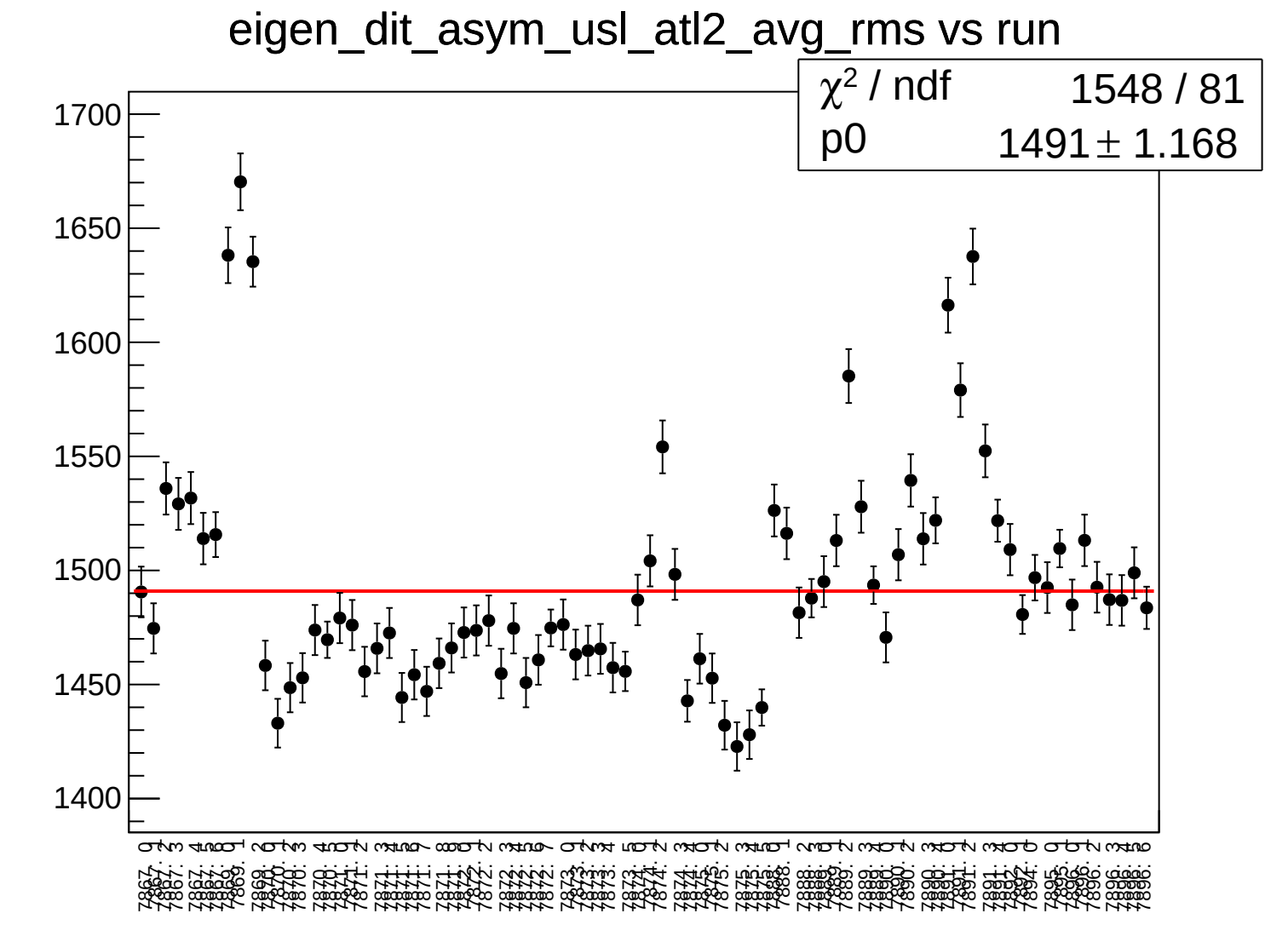

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 67.85 / 81
p0 3262 ± 5847
pull
Entries 82
Mean −163
Std Dev 0

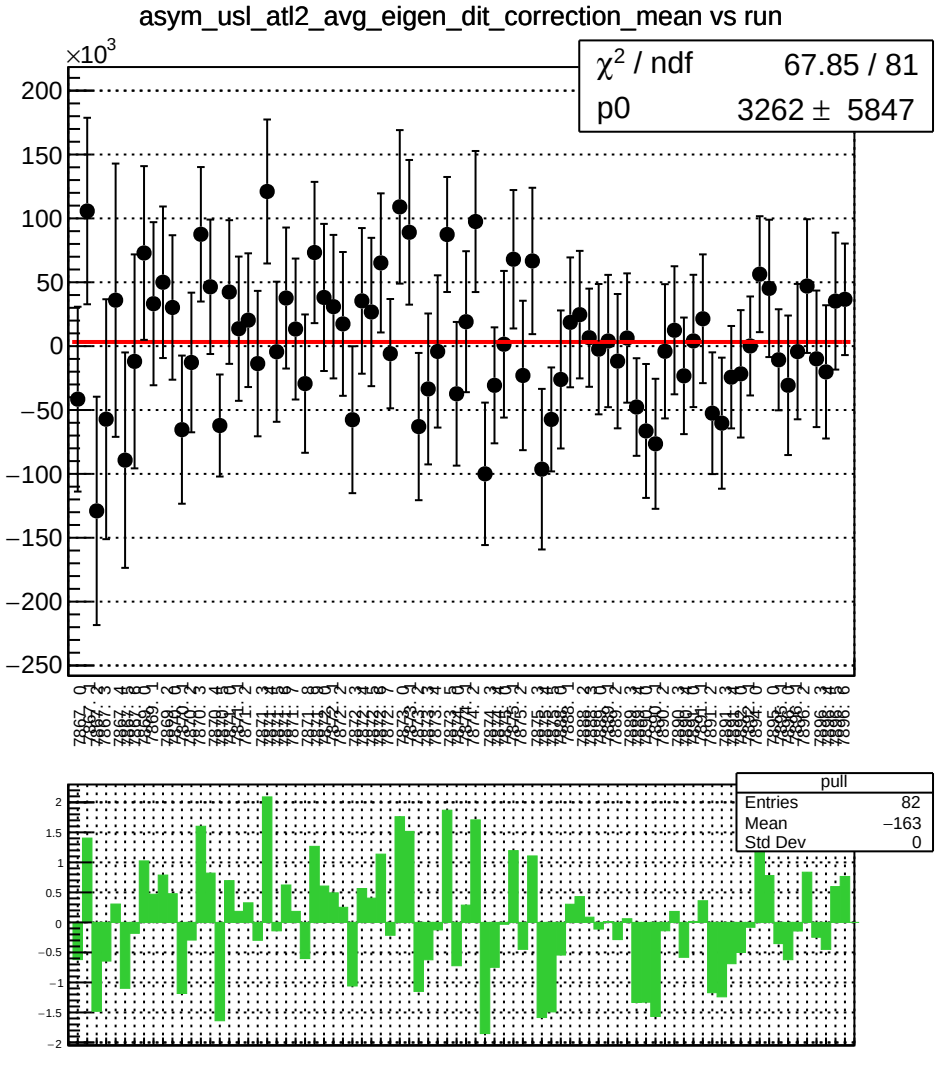

pull1D
Entries 82
Mean 0.01415
Std Dev 0.9096

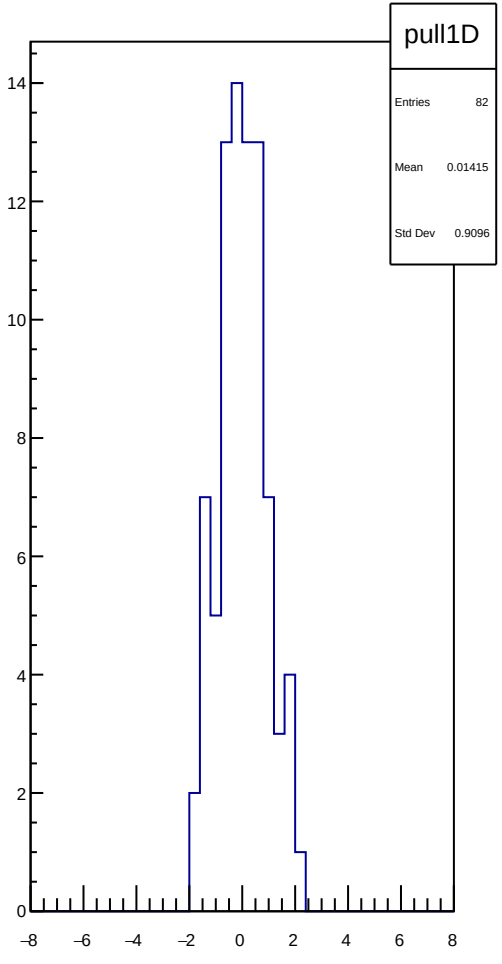

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2.509e+04 / 81
p0 5242 ± 4.135
10000
9000
8000
7000
6000
5000
4000

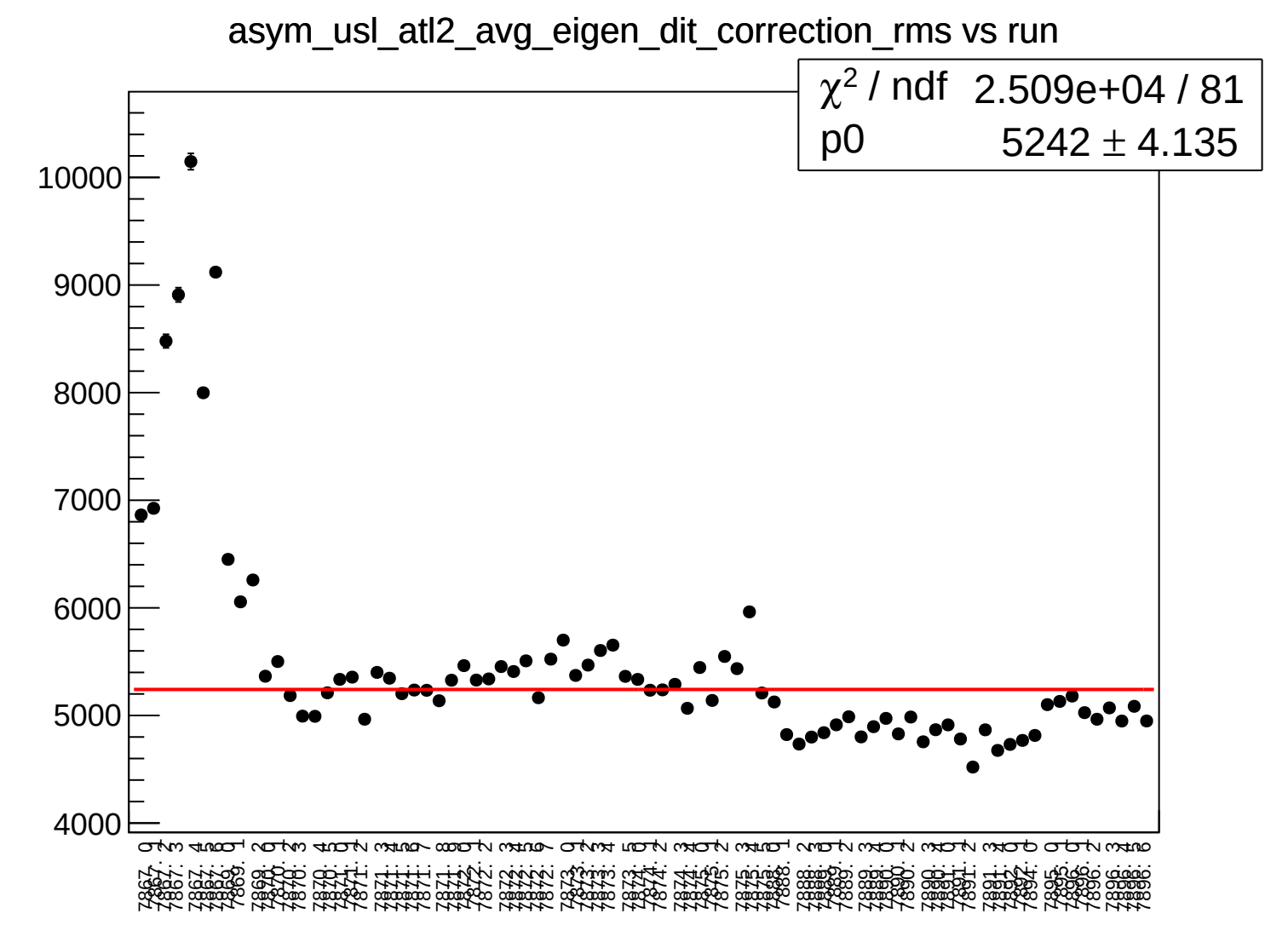

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 74.23 / 81
p0 −3364 ± 1651
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 633.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

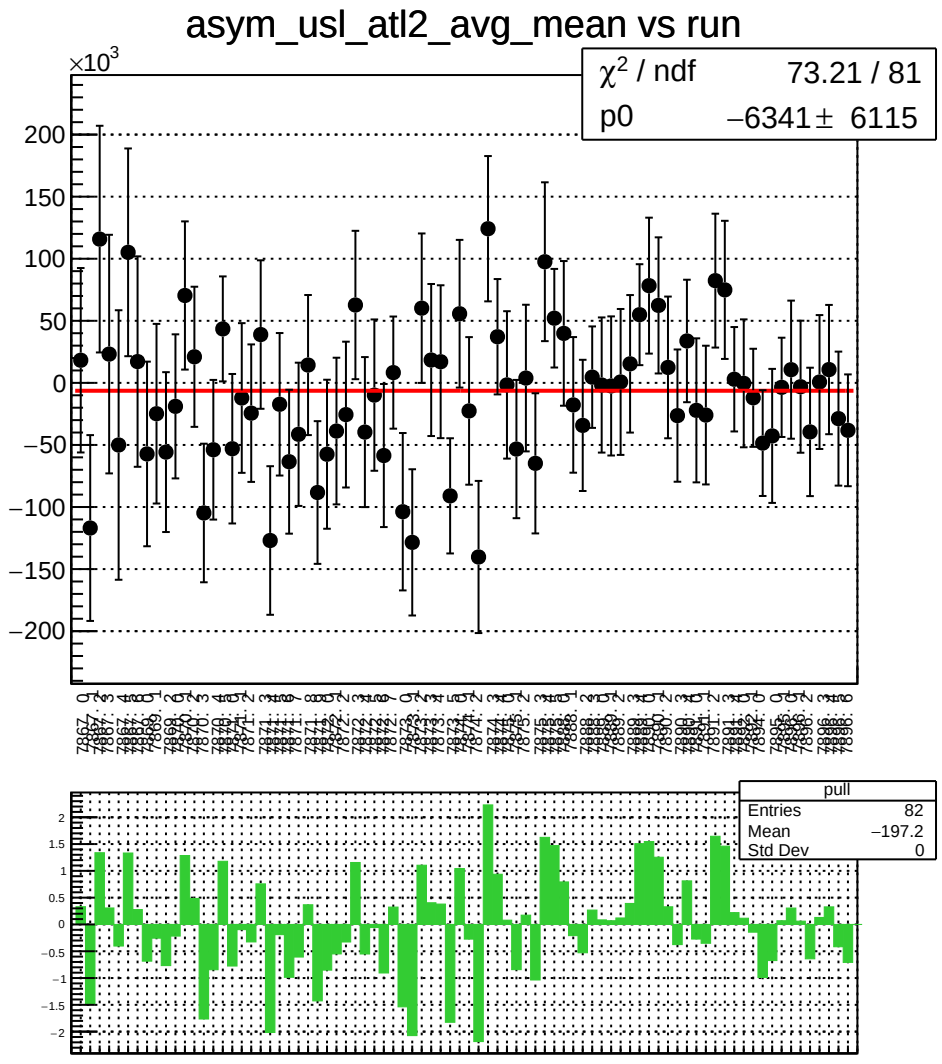

pull1D
Entries 82
Mean 0.004101
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

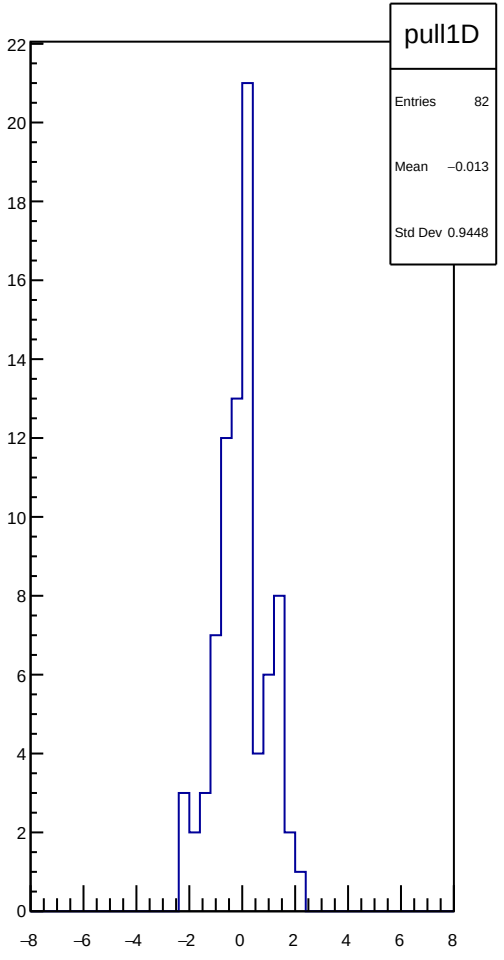

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1548 / 81
p0 1491 ± 1.168
1700
1650
1600
1550
1500
1450
1400

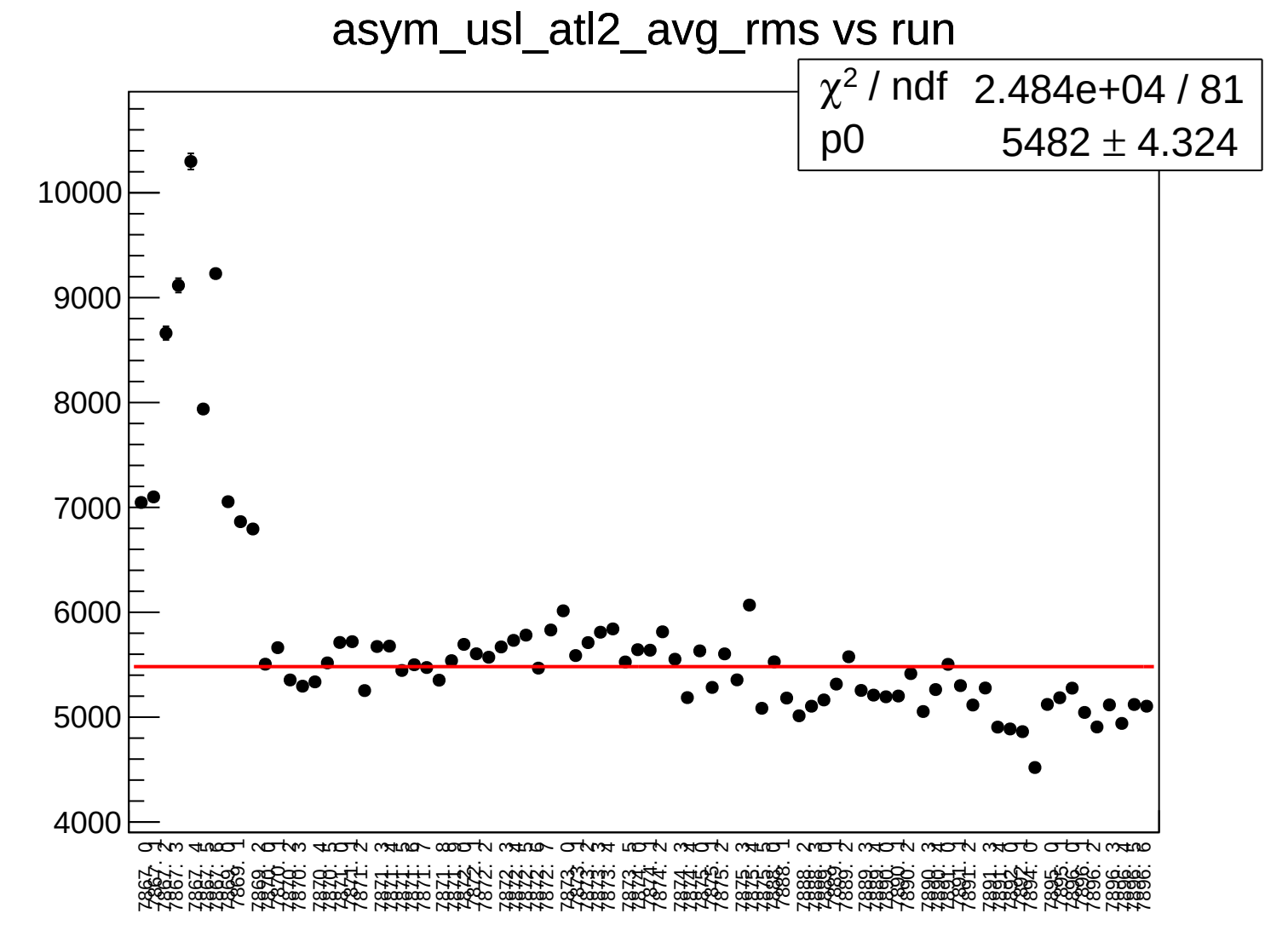

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.85 / 81
p0 3262 ± 5847
pull
Entries 82
Mean −163
Std Dev 0

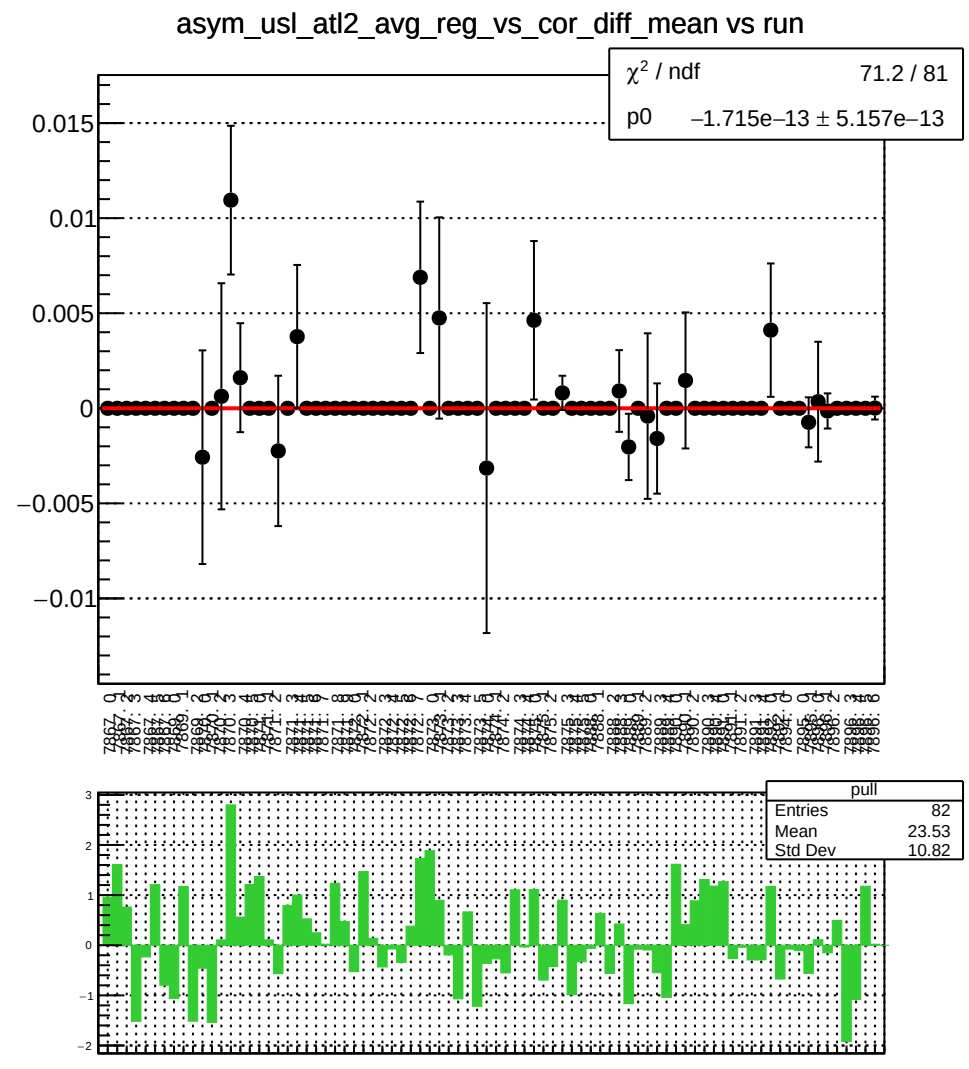

pull1D
Entries 82
Mean 0.01415
Std Dev 0.9096

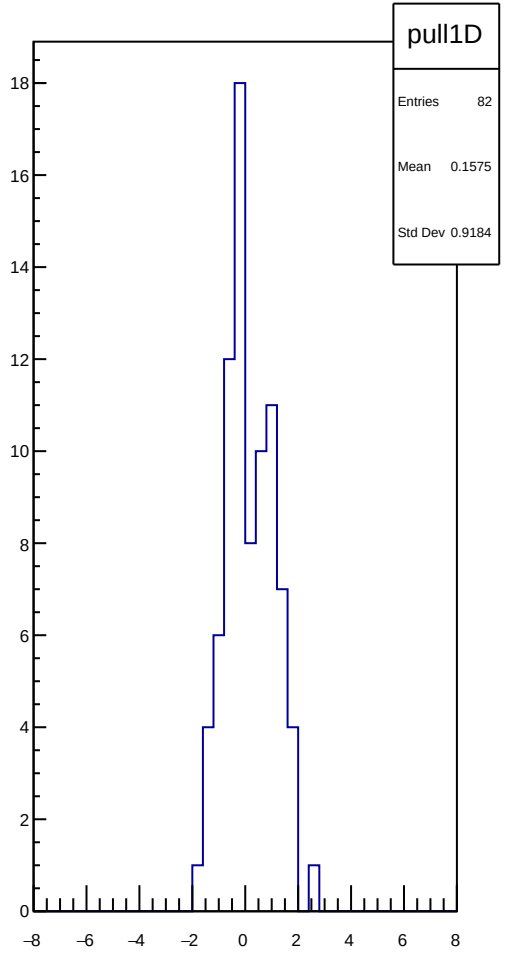

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.509e+04 / 81
p0 5242 ± 4.135
10000
9000
8000
7000
6000
5000
4000

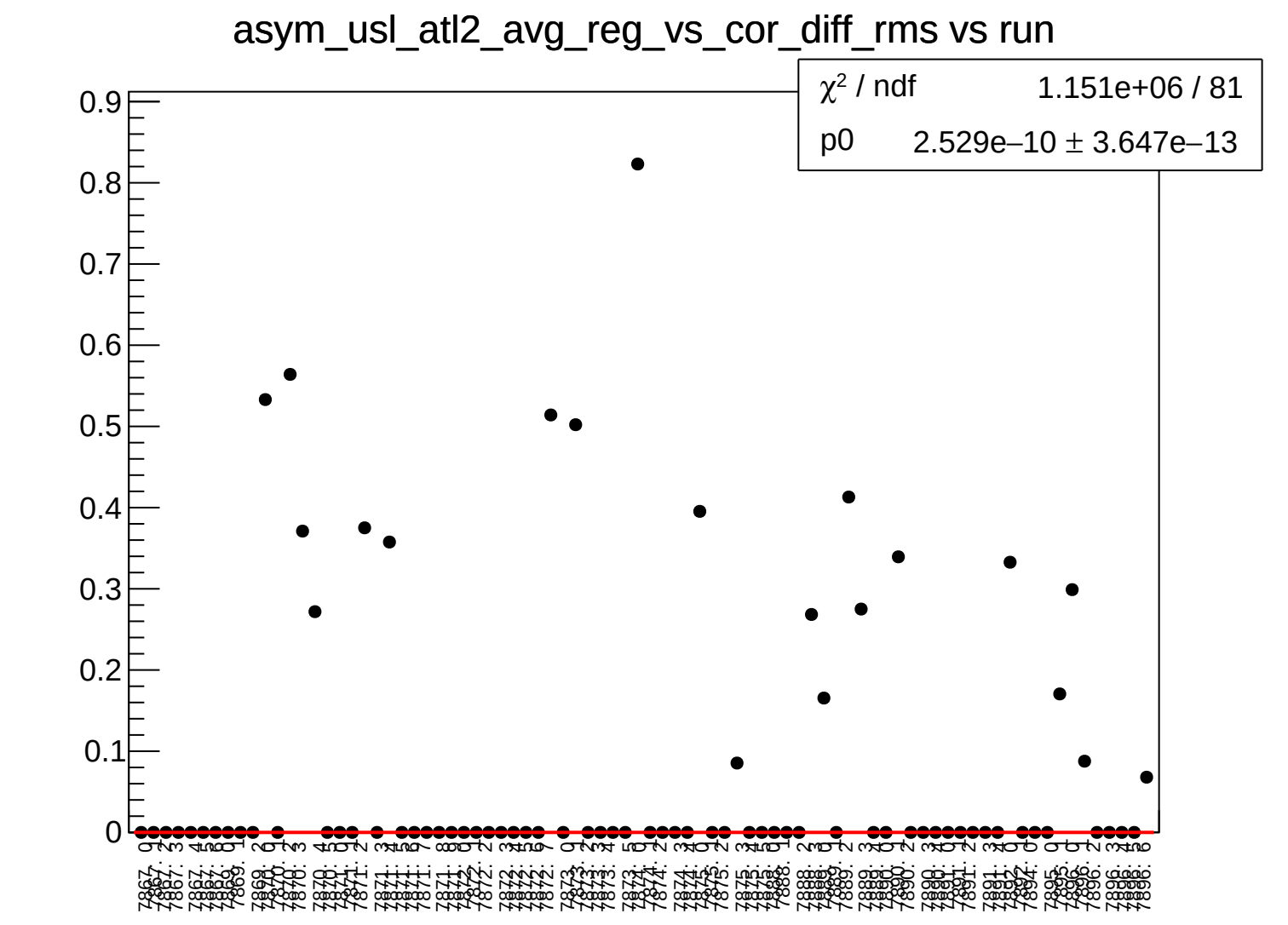

asym_usl_atl2_avg_mean vs run
χ² / ndf 73.21 / 81
p0 −6341 ± 6115
×10³
pull
Entries 82
Mean −197.2
Std Dev 0

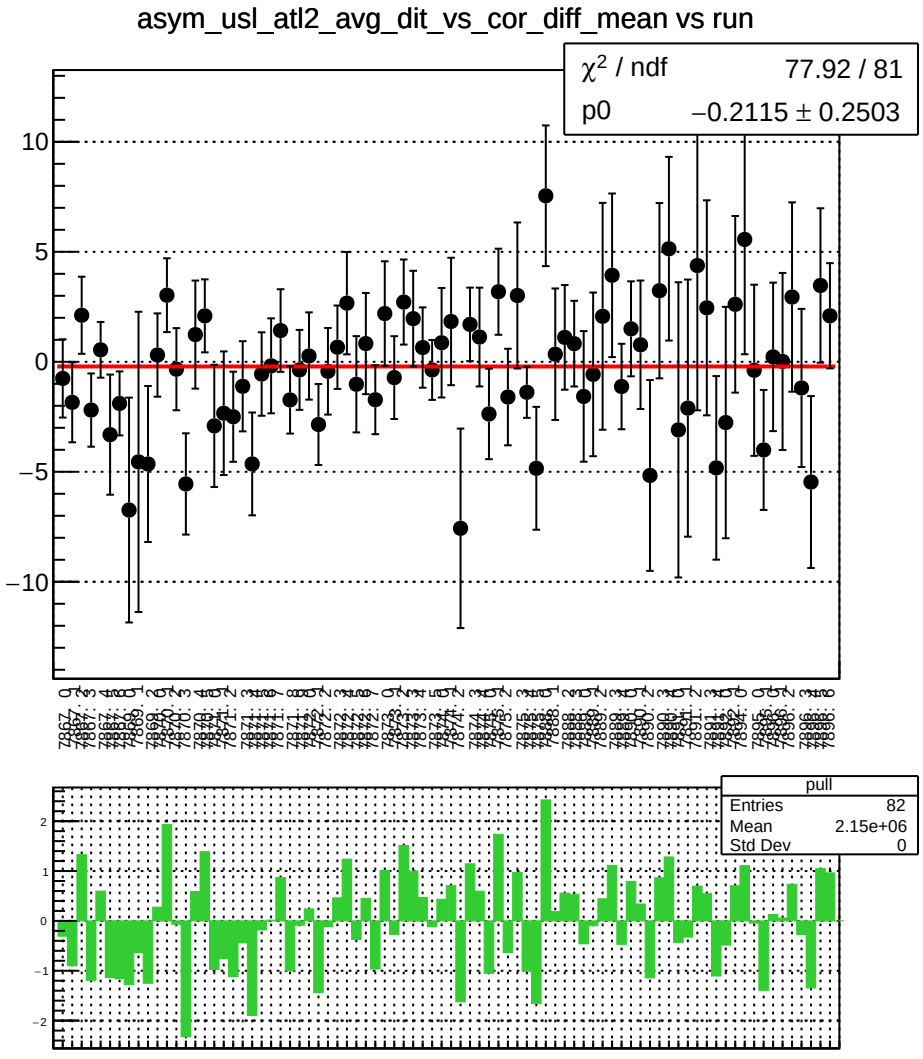

pull1D
Entries 82
Mean −0.013
Std Dev 0.9448

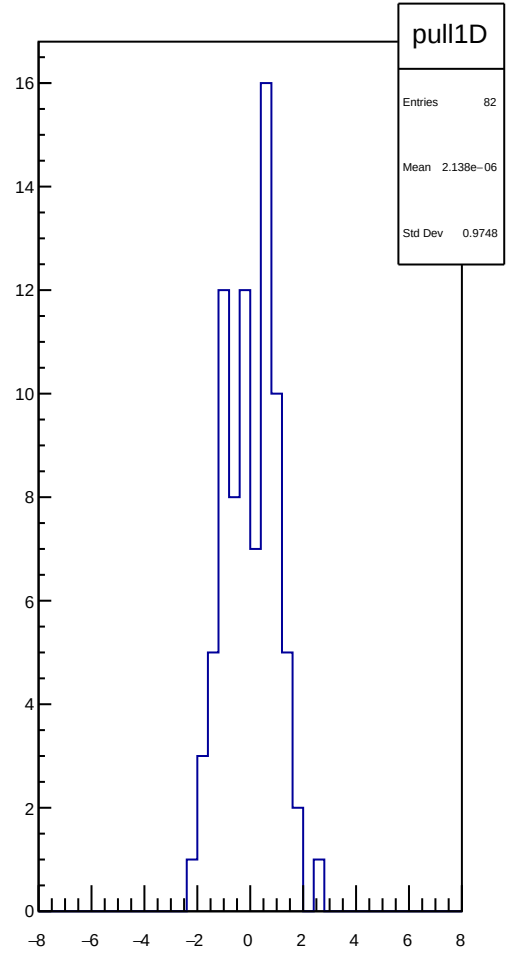

asym_usl_atl2_avg_rms vs run
χ² / ndf 2.484e+04 / 81
p0 5482 ± 4.324
10000
9000
8000
7000
6000
5000
4000

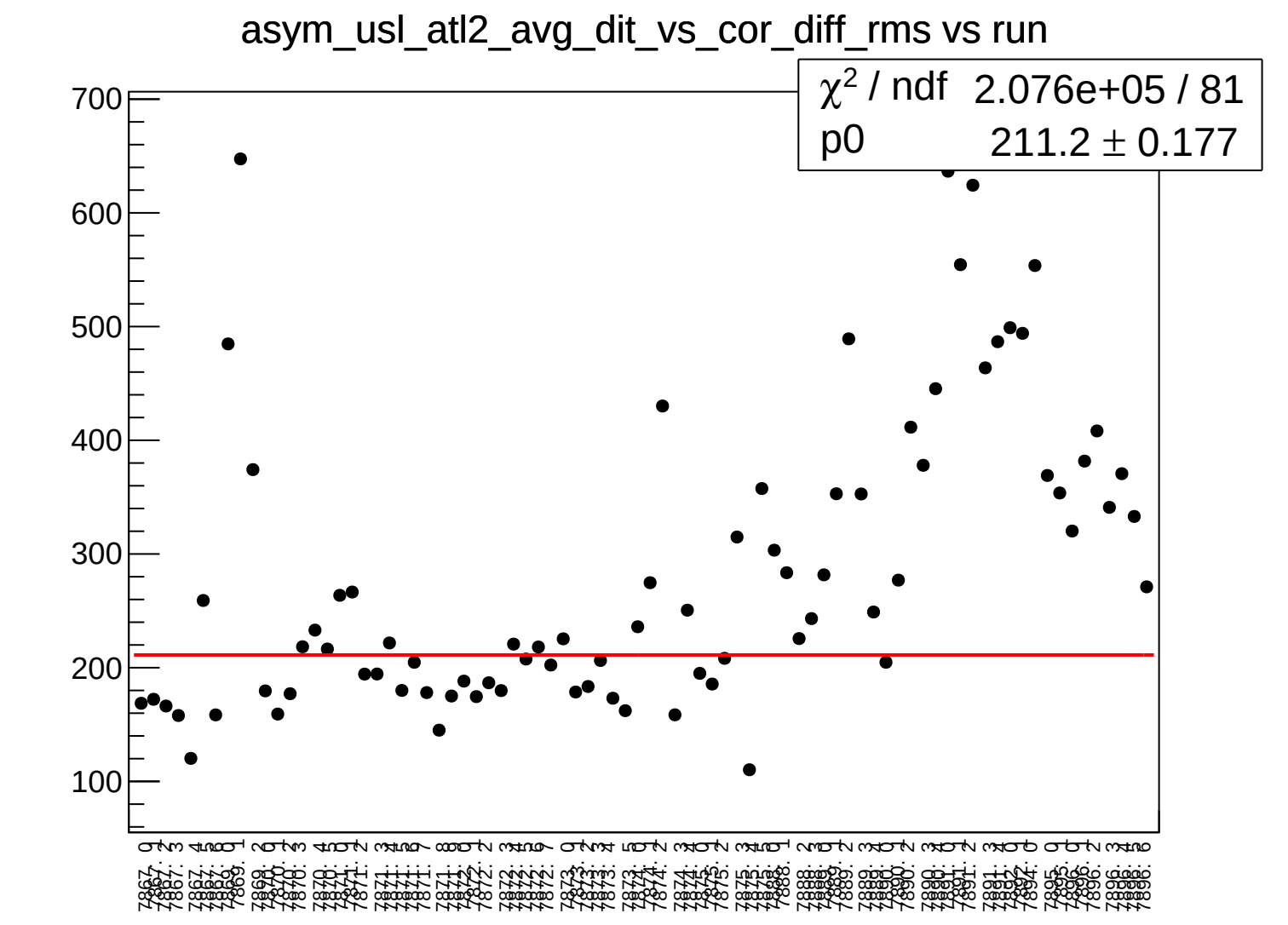

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.2 / 81
p0 −1.715e−13 ± 5.157e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 82
Mean 23.53
Std Dev 10.82
3
2
1
0
−1
−2

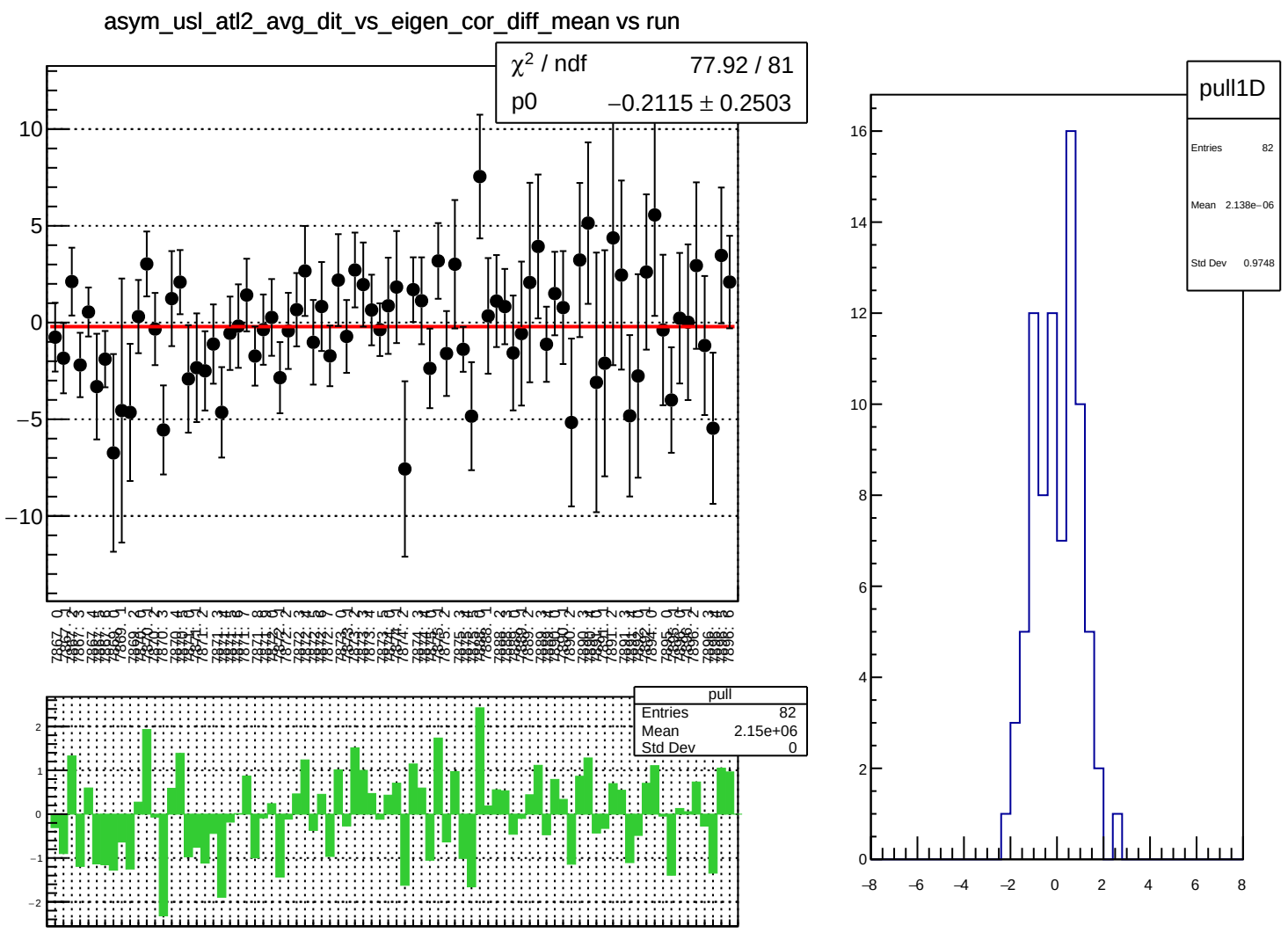

pull1D
Entries 82
Mean 0.1575
Std Dev 0.9184
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

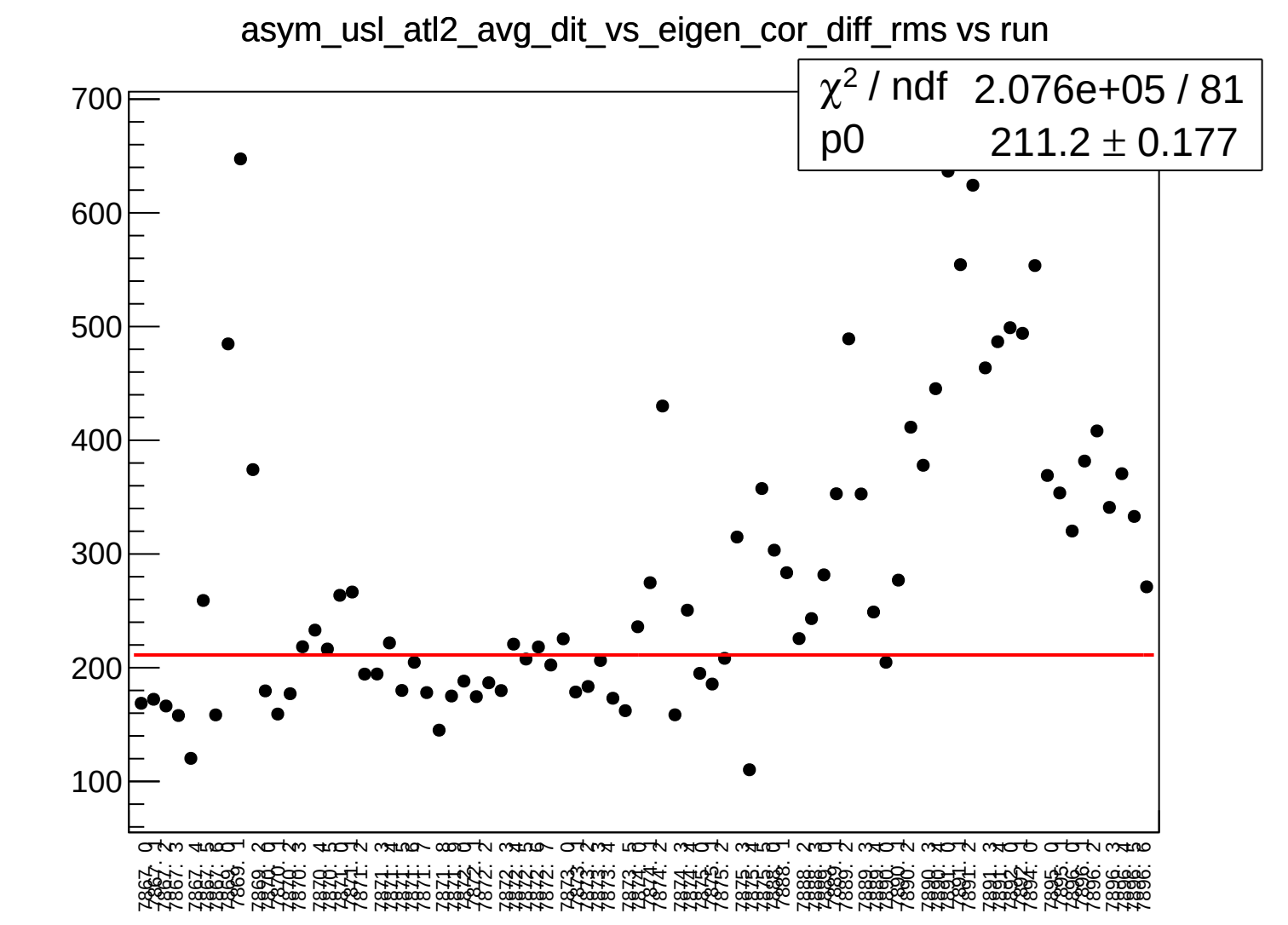

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 81
p0 2.529e−10 ± 3.647e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

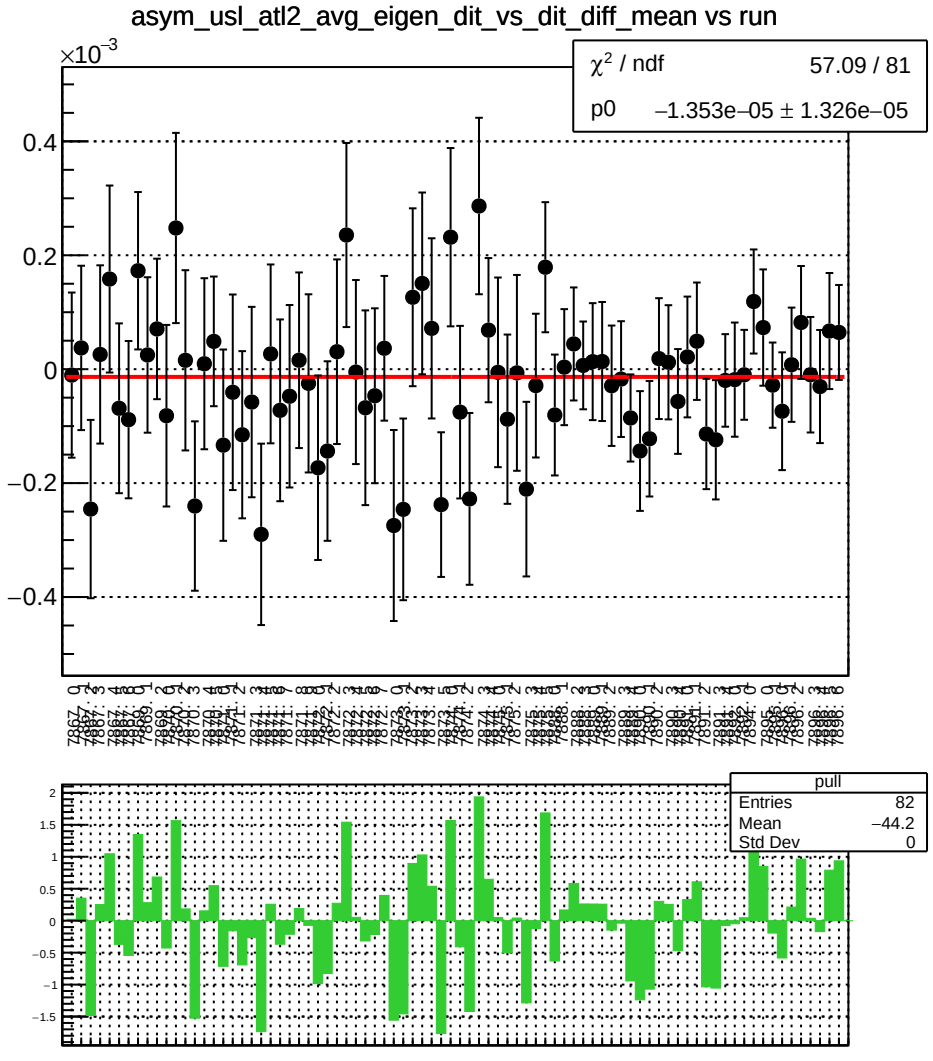

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.92 / 81
p0 −0.2115 ± 0.2503
pull
Entries 82
Mean 2.15e+06
Std Dev 0

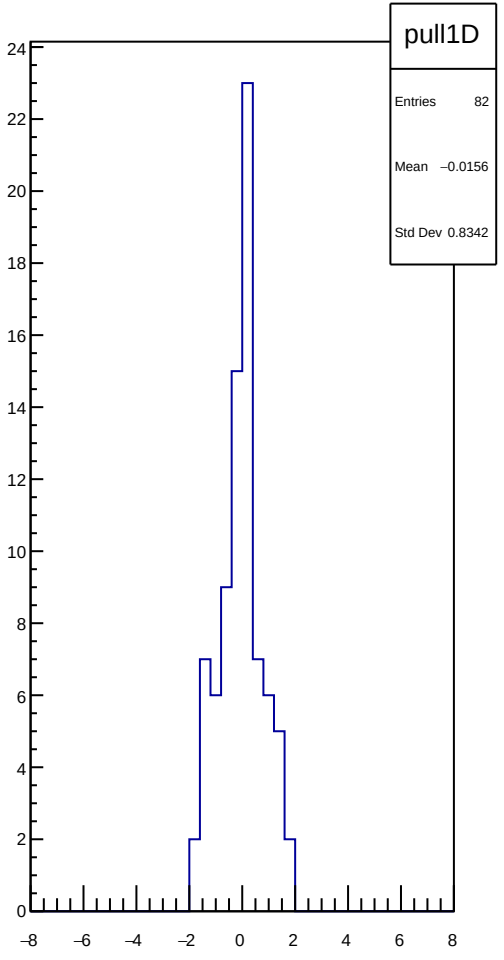

pull1D
Entries 82
Mean 2.138e−06
Std Dev 0.9748

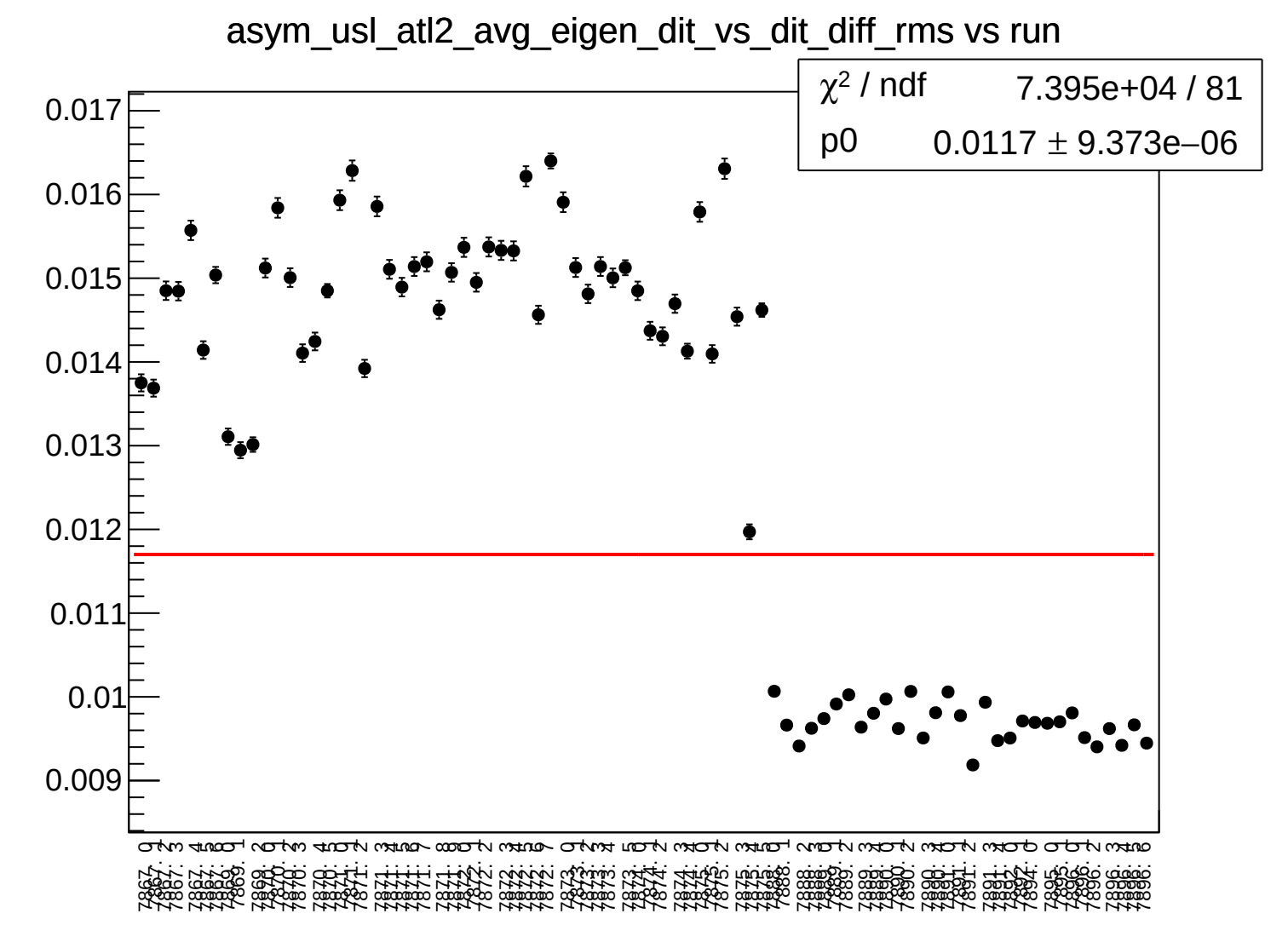

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.076e+05 / 81
p0 211.2 ± 0.177
700
600
500
400
300
200
100

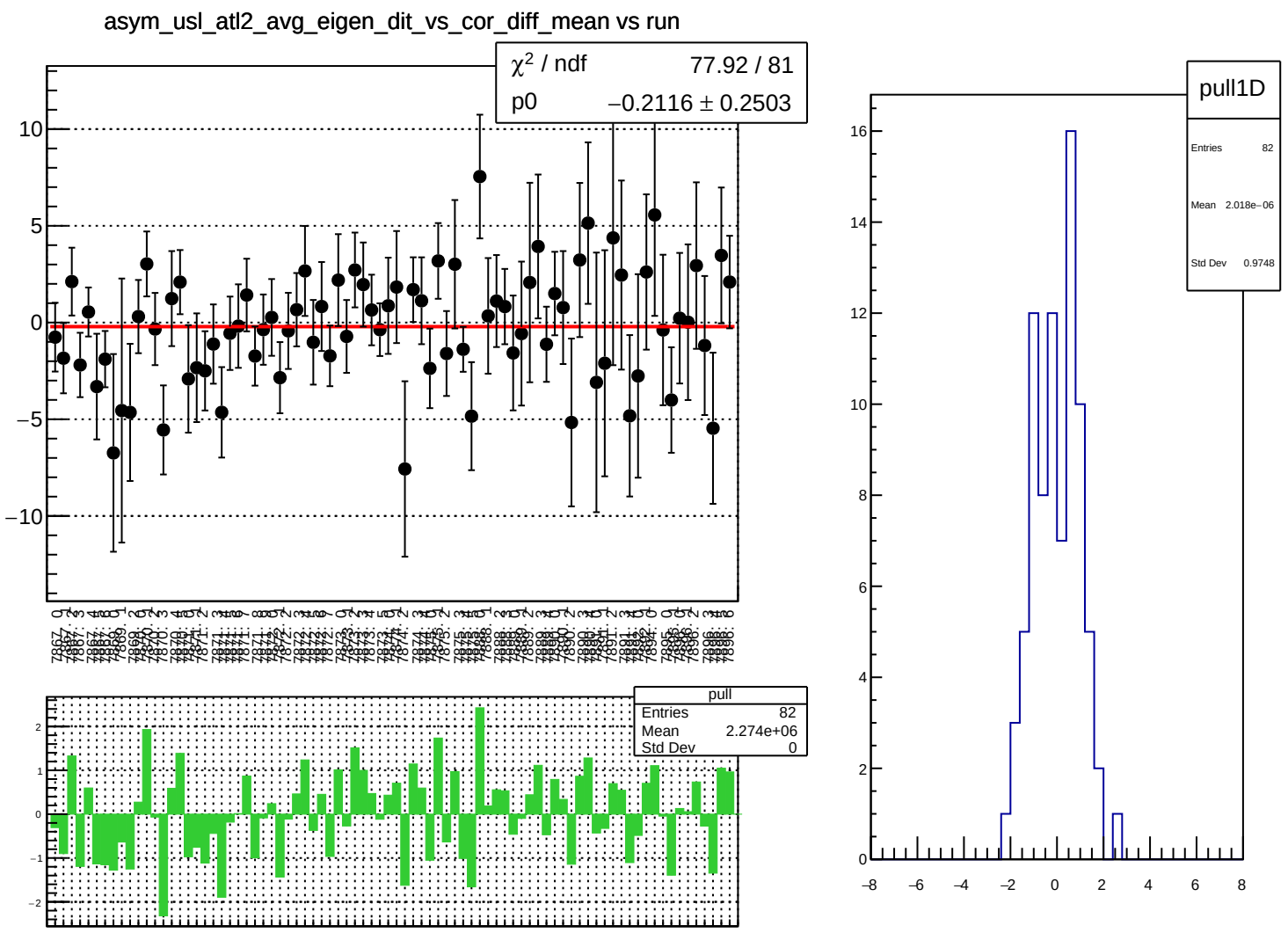

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.92 / 81
p0 −0.2115 ± 0.2503
pull
Entries 82
Mean 2.15e+06
Std Dev 0
pull1D
Entries 82
Mean 2.138e−06
Std Dev 0.9748

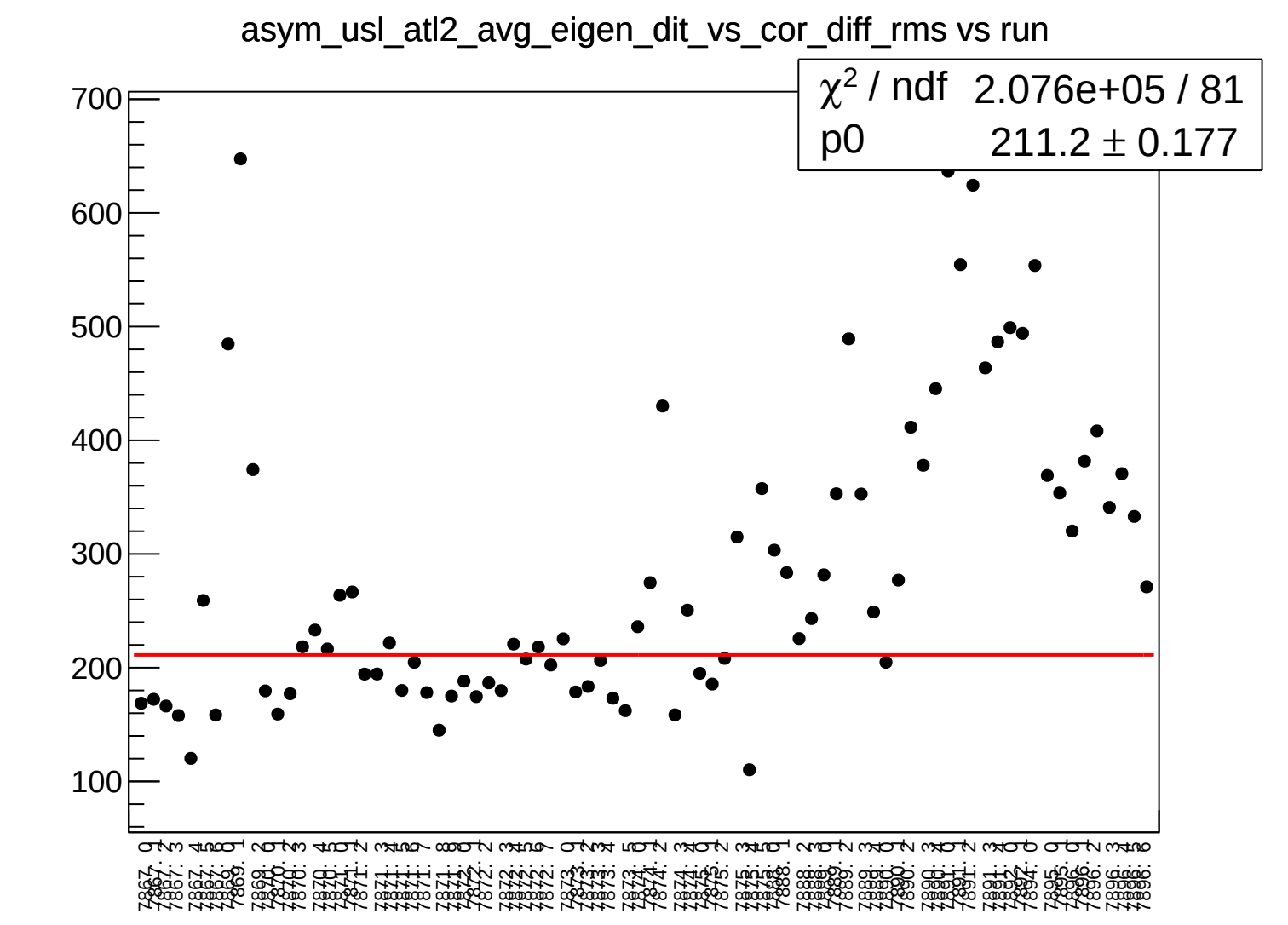

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.076e+05 / 81
p0 211.2 ± 0.177
700
600
500
400
300
200
100

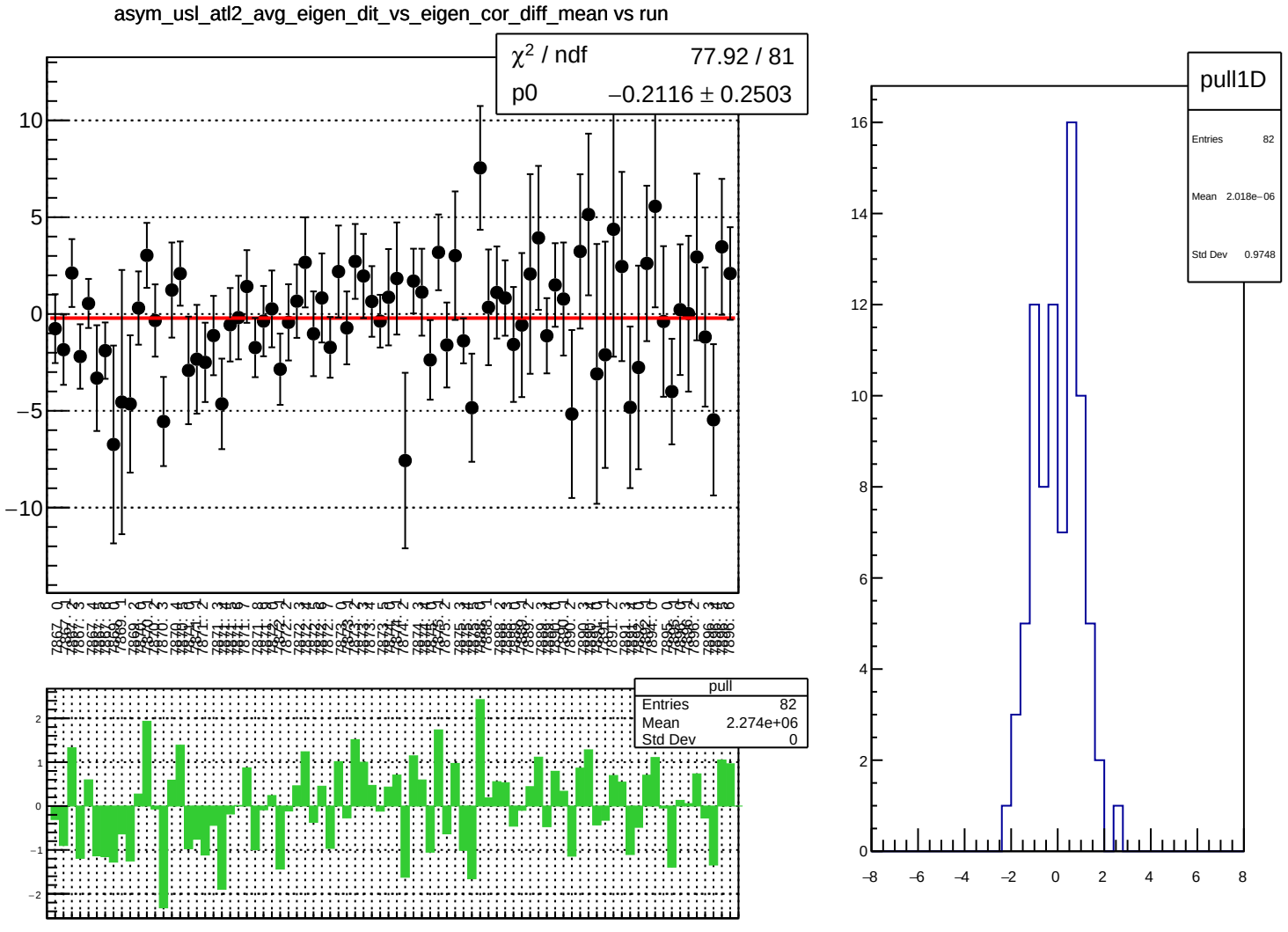

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.09 / 81
p0 −1.353e−05 ± 1.326e−05
pull
Entries 82
Mean −44.2
Std Dev 0

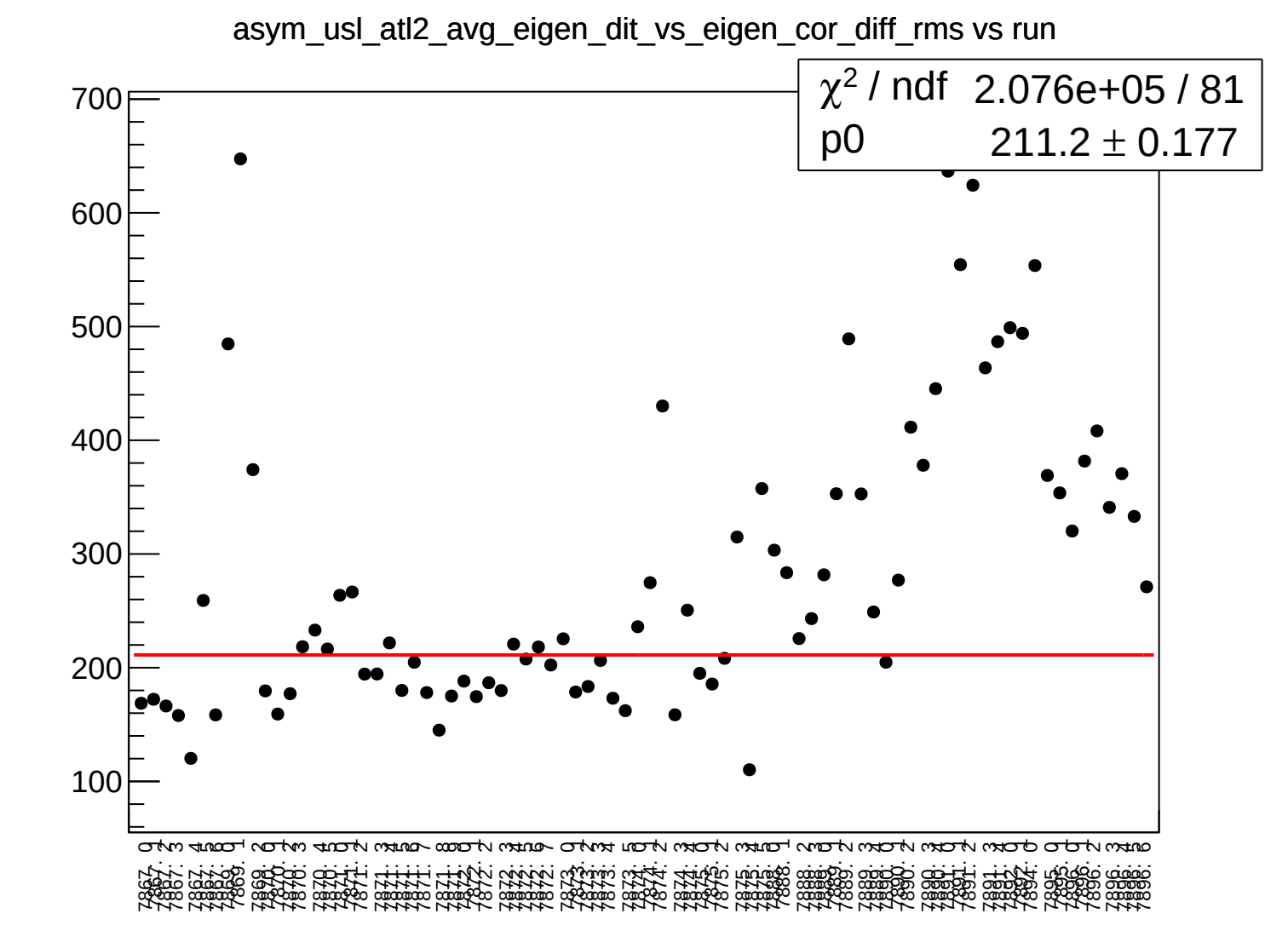

pull1D
Entries 82
Mean −0.0156
Std Dev 0.8342

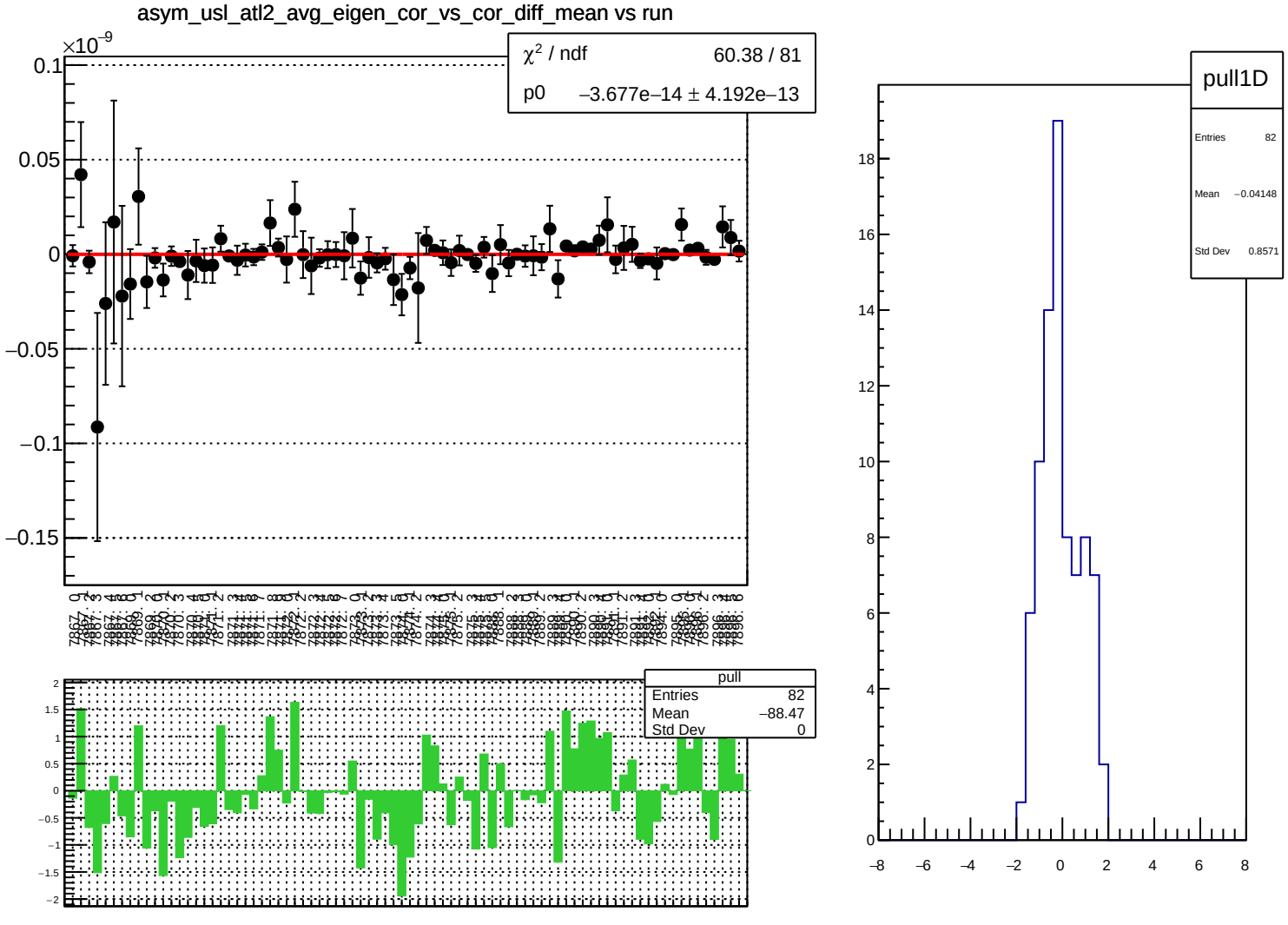

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.395e+04 / 81
p0 0.0117 ± 9.373e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

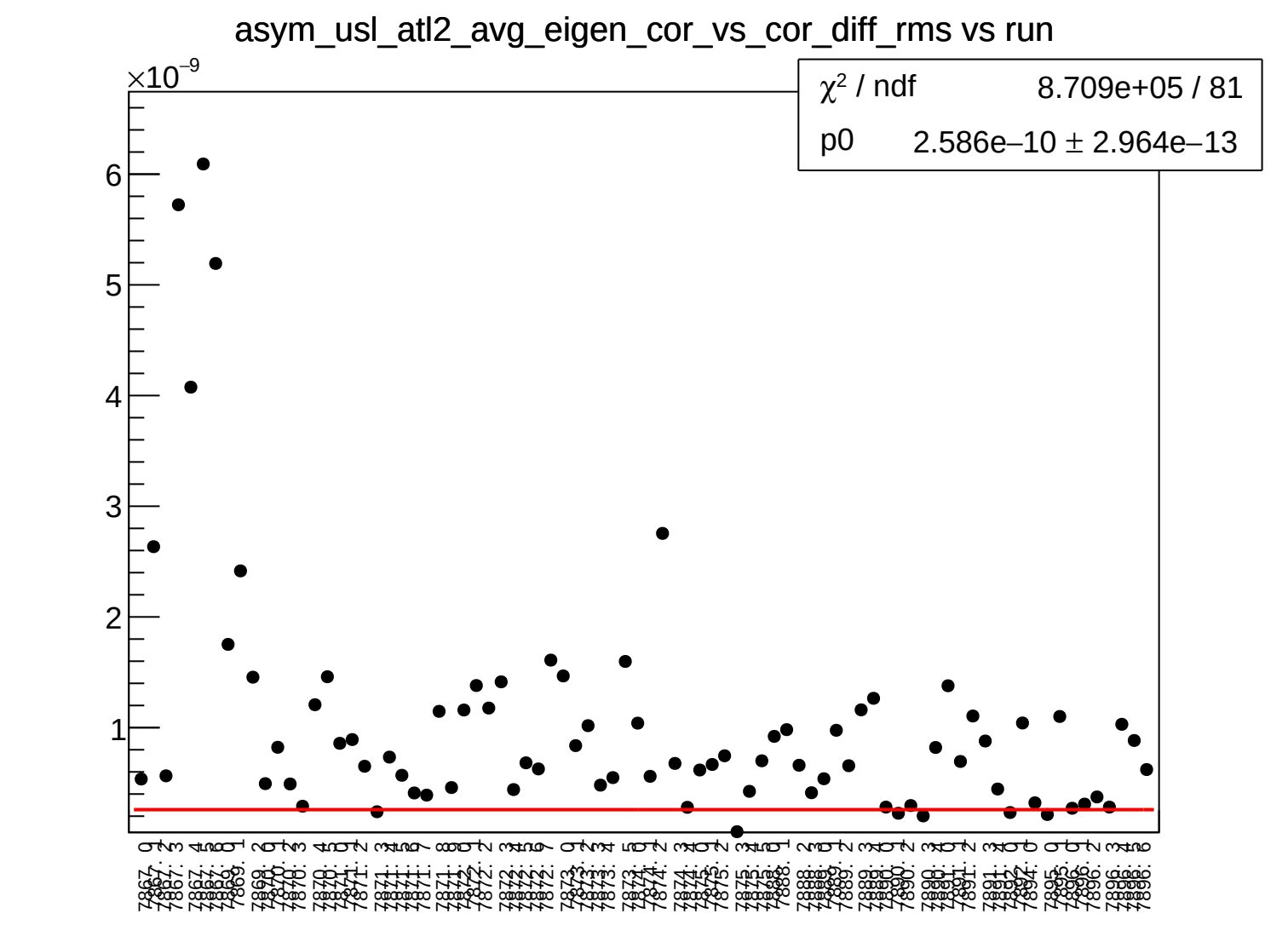

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.92 / 81
p0 −0.2116 ± 0.2503
pull
Entries 82
Mean 2.274e+06
Std Dev 0
pull1D
Entries 82
Mean 2.018e−06
Std Dev 0.9748

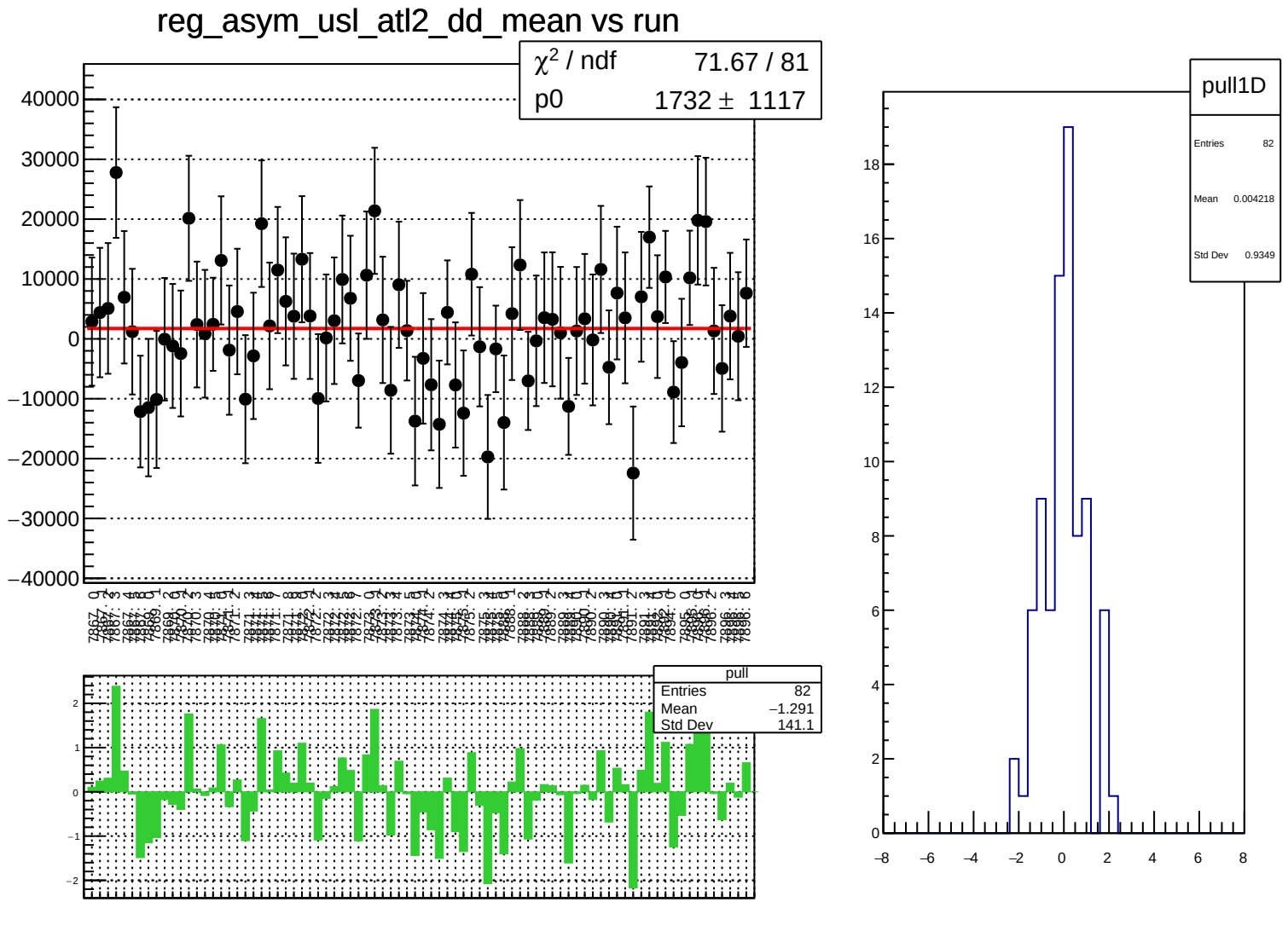

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.076e+05 / 81
p0 211.2 ± 0.177
700
600
500
400
300
200
100

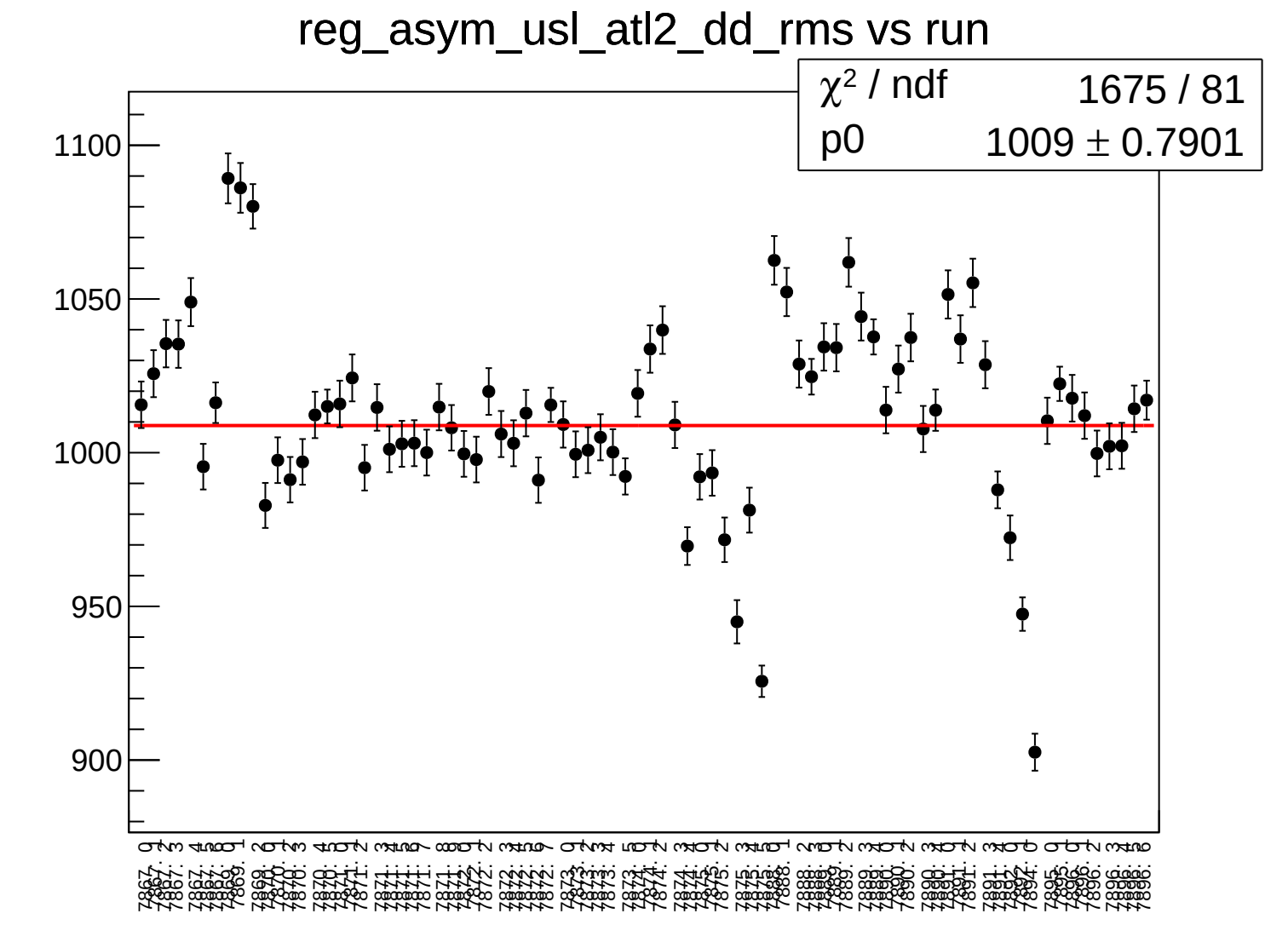

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.92 / 81
p0 −0.2116 ± 0.2503
pull
Entries 82
Mean 2.274e+06
Std Dev 0
pull1D
Entries 82
Mean 2.018e−06
Std Dev 0.9748

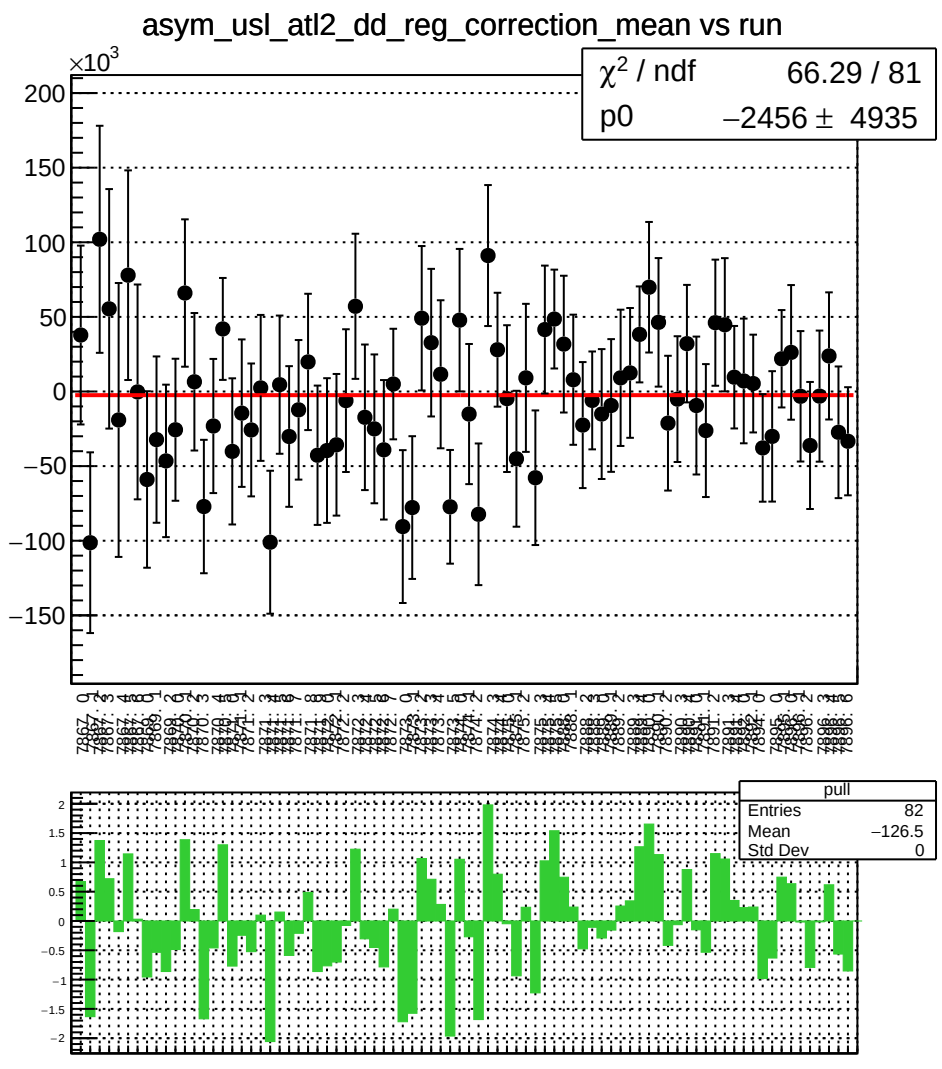

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.076e+05 / 81
p0 211.2 ± 0.177
700
600
500
400
300
200
100

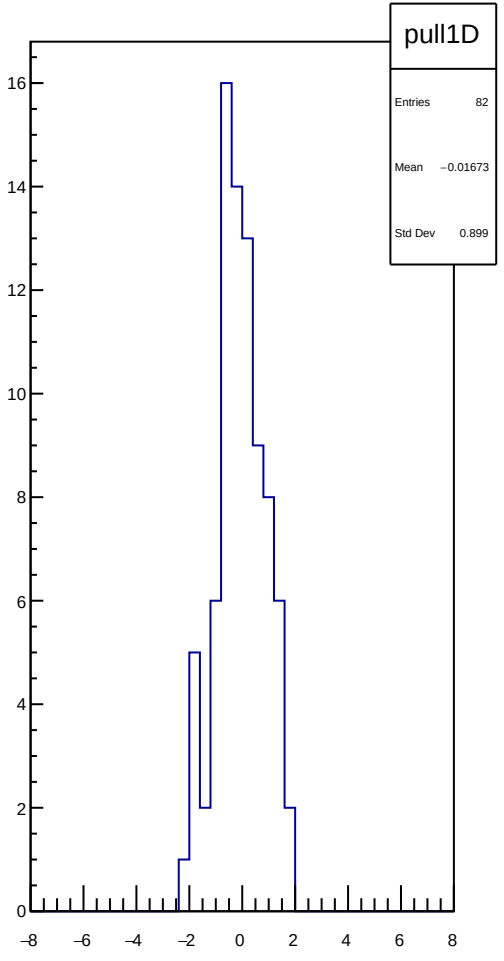

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 60.38 / 81
p0 −3.677e−14 ± 4.192e−13
pull
Entries 82
Mean −88.47
Std Dev 0
pull1D
Entries 82
Mean −0.04148
Std Dev 0.8571

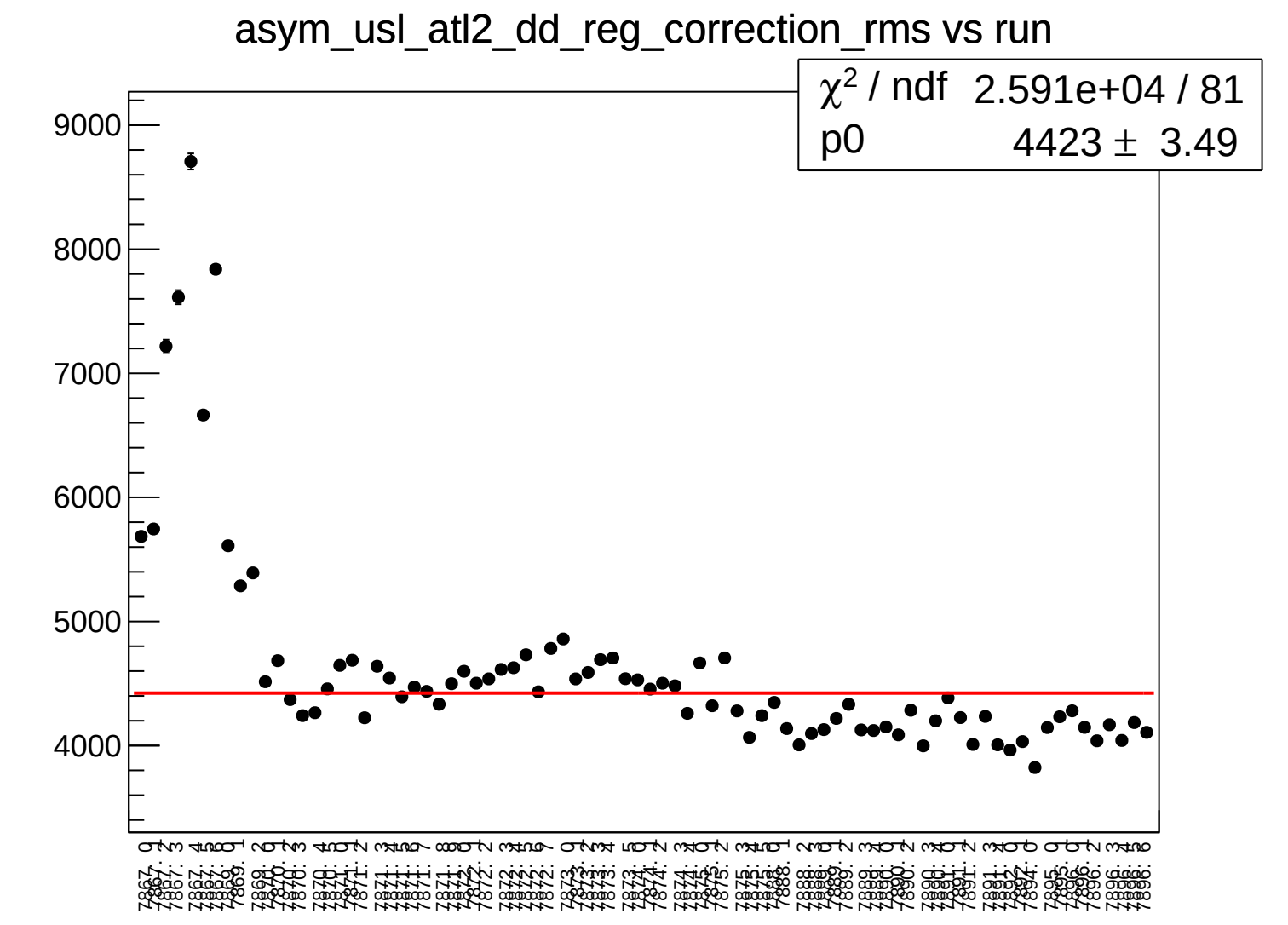

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.709e+05 / 81
p0 2.586e−10 ± 2.964e−13
6
5
4
3
2
1

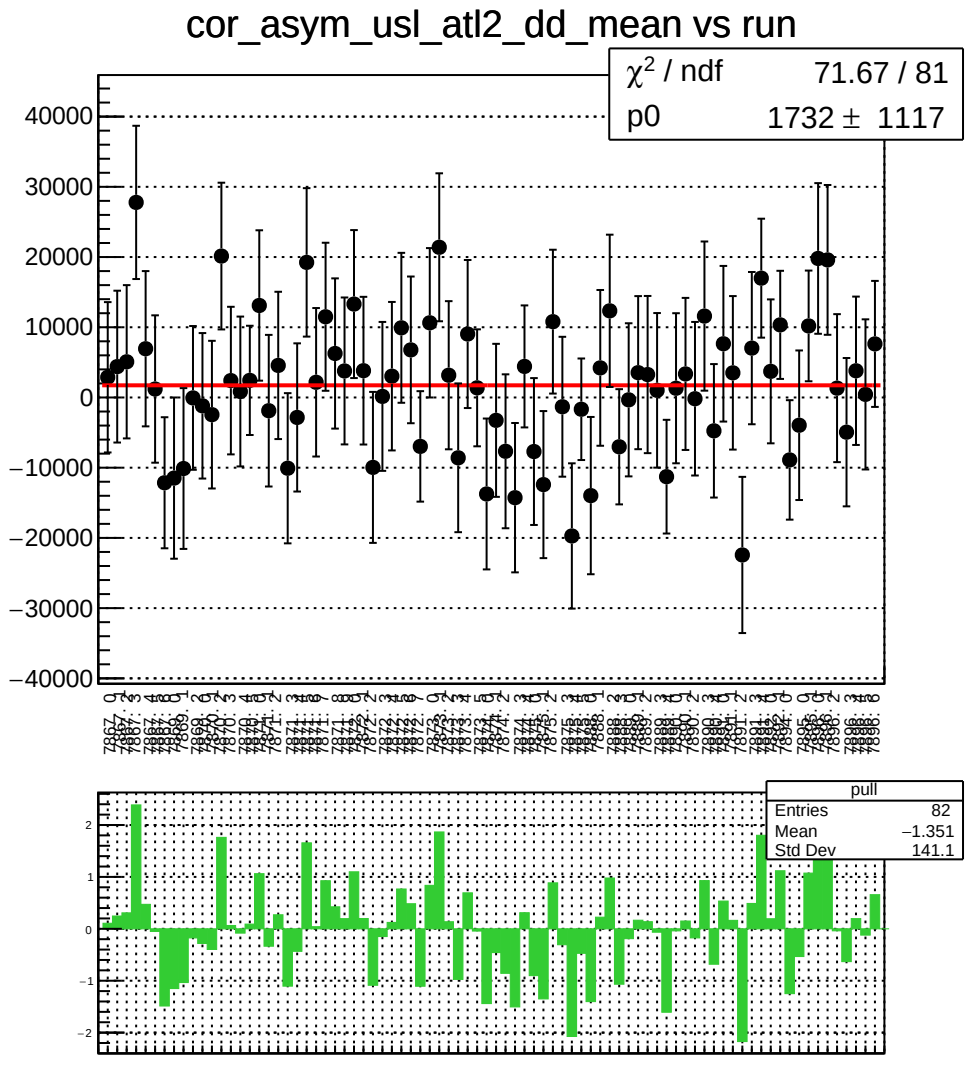

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.67 / 81
p0 1732 ± 1117
pull
Entries 82
Mean −1.291
Std Dev 141.1
pull1D
Entries 82
Mean 0.004218
Std Dev 0.9349

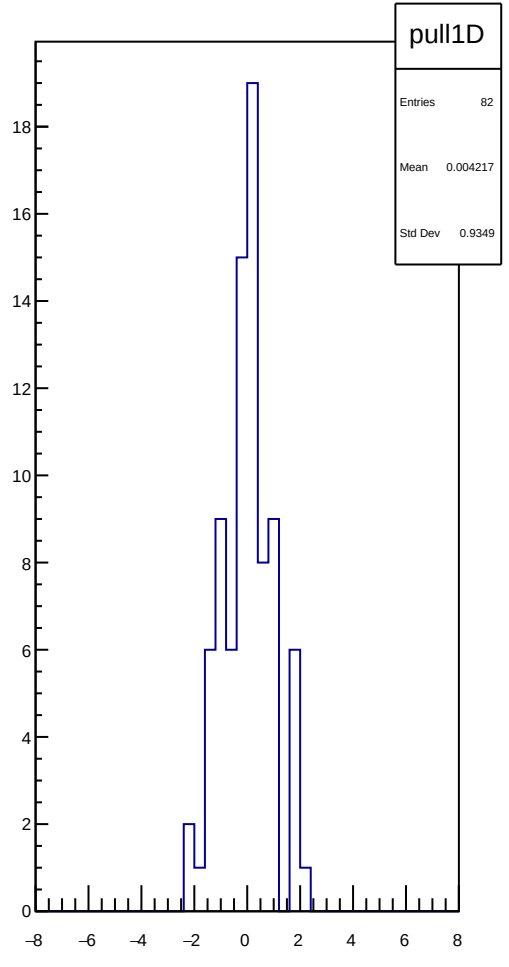

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 1675 / 81
p0 1009 ± 0.7901
1100
1050
1000
950
900

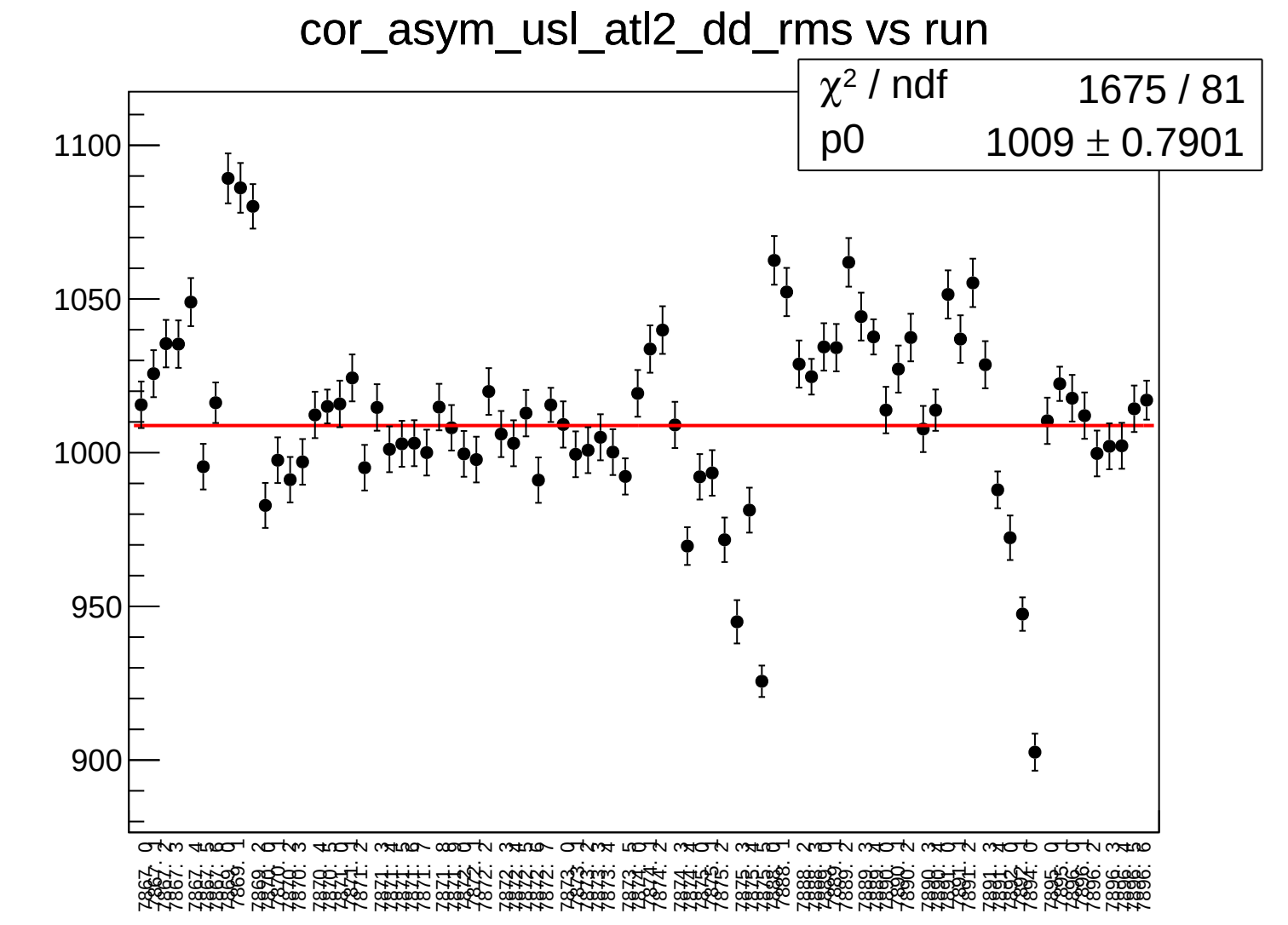

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 66.29 / 81
p0 −2456 ± 4935
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −126.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

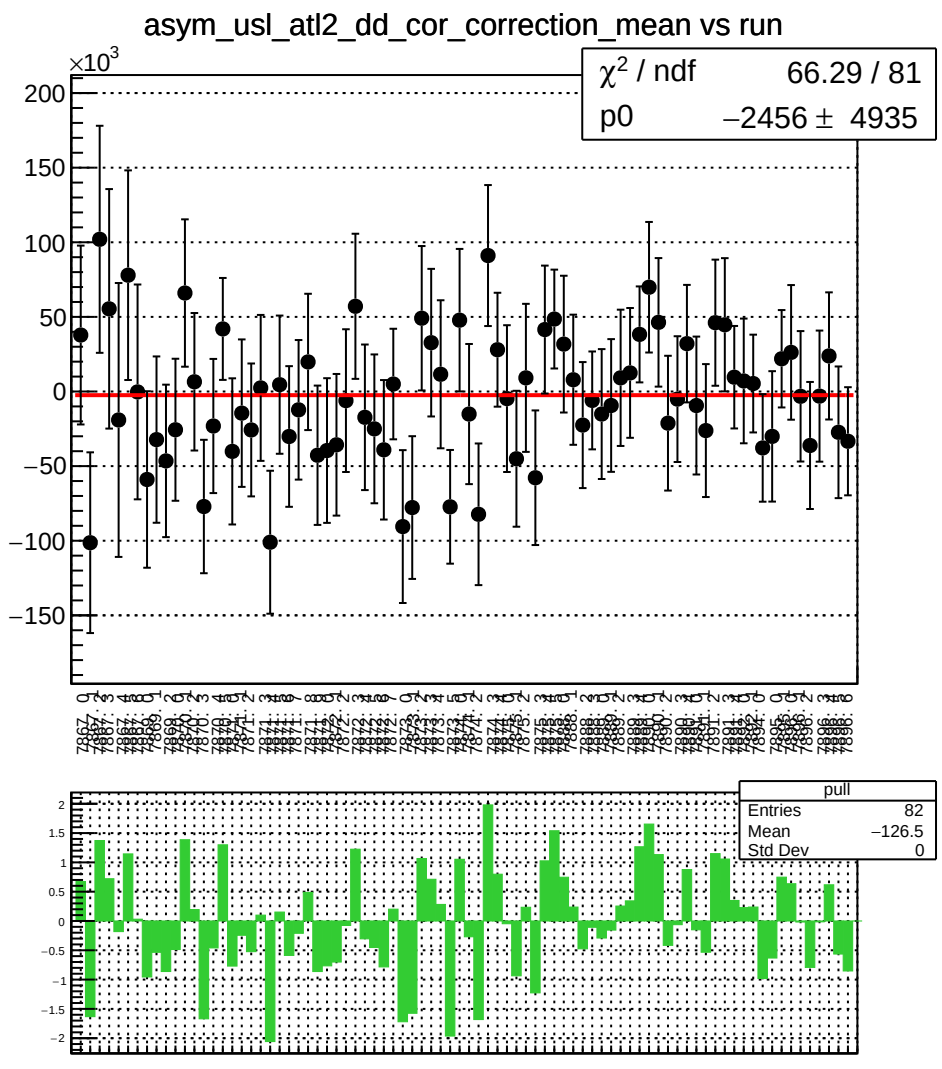

pull1D
Entries 82
Mean −0.01673
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

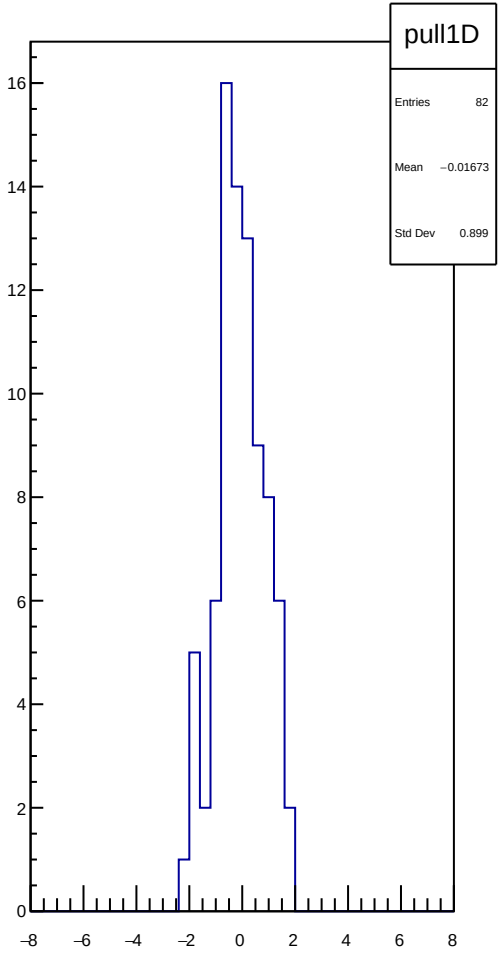

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2.591e+04 / 81
p0 4423 ± 3.49
9000
8000
7000
6000
5000
4000

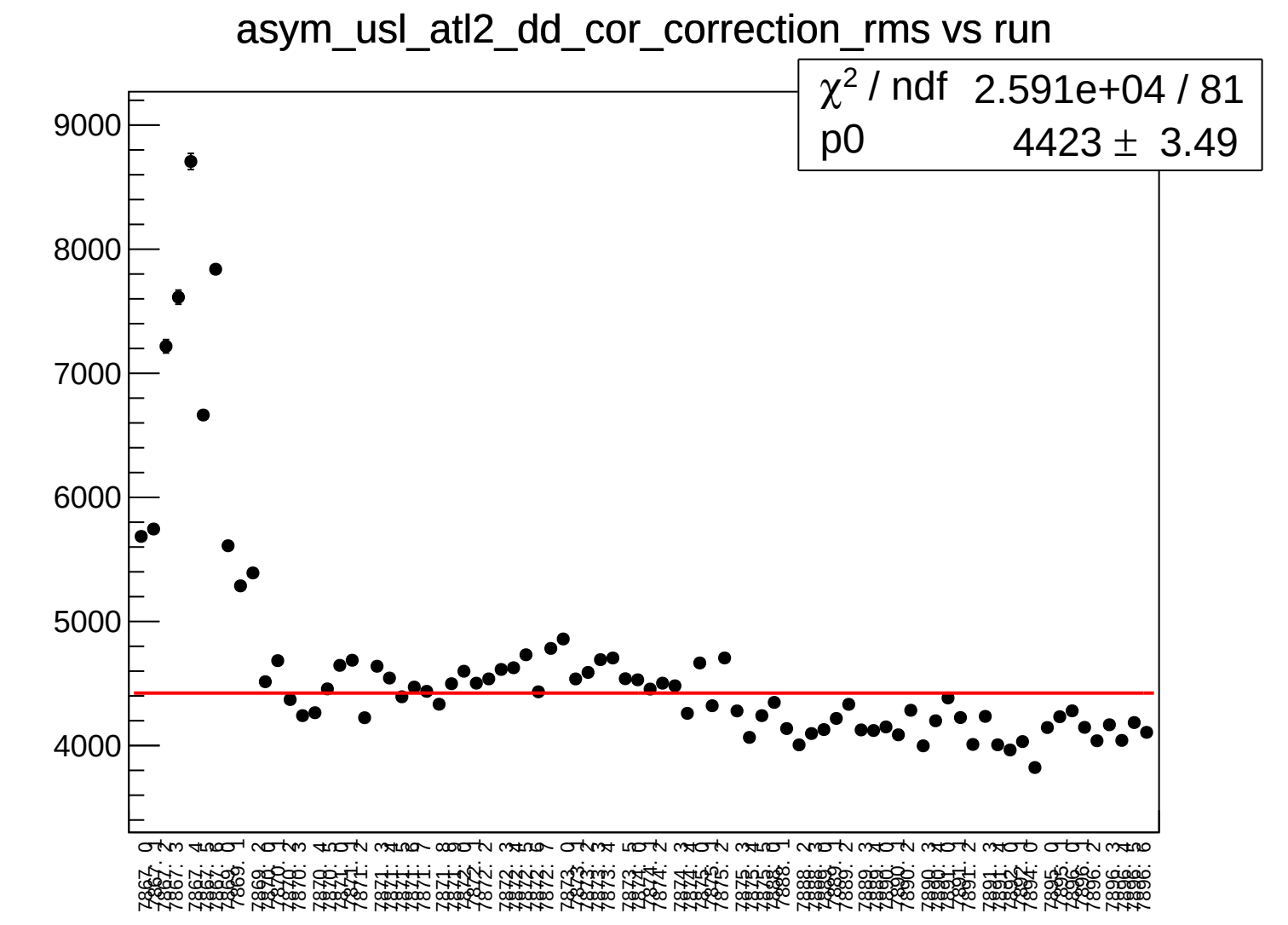

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.67 / 81
p0 1732 ± 1117
pull
Entries 82
Mean −1.351
Std Dev 141.1

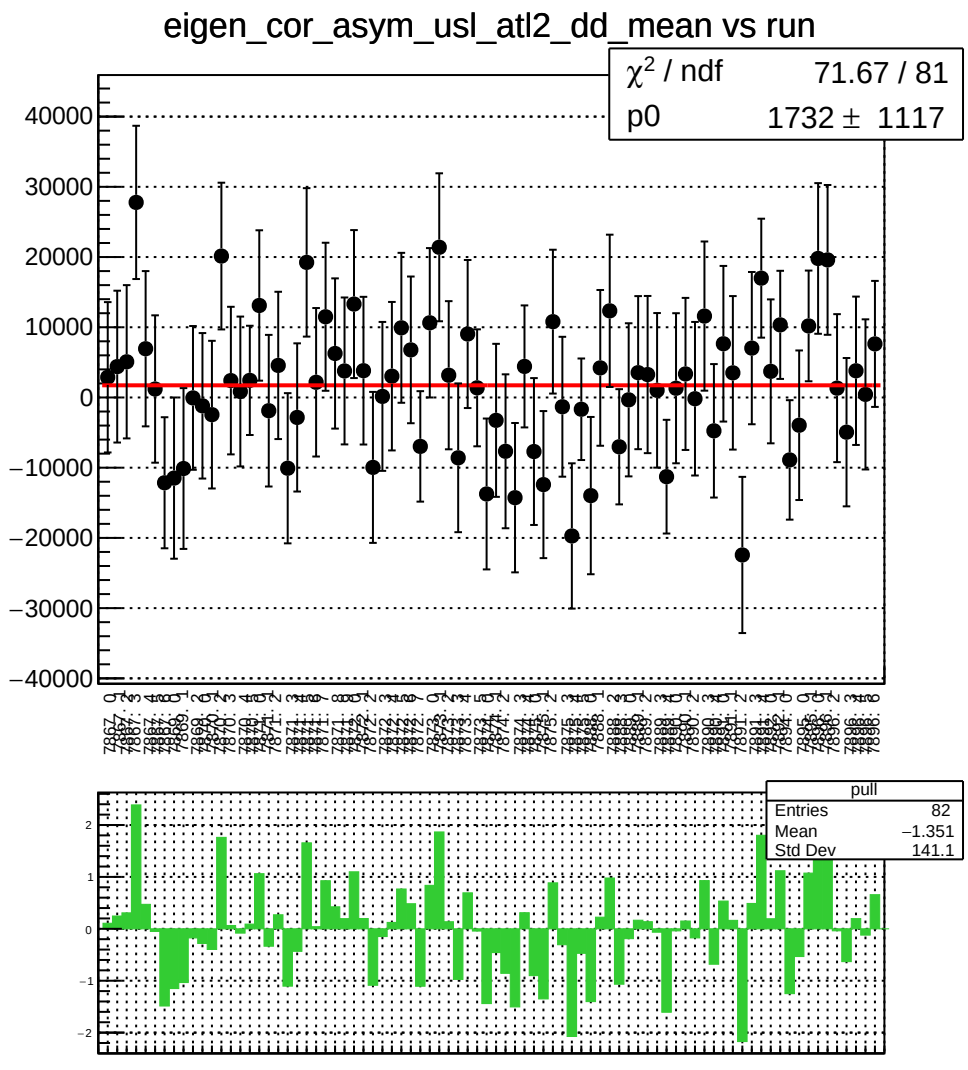

pull1D
Entries 82
Mean 0.004217
Std Dev 0.9349

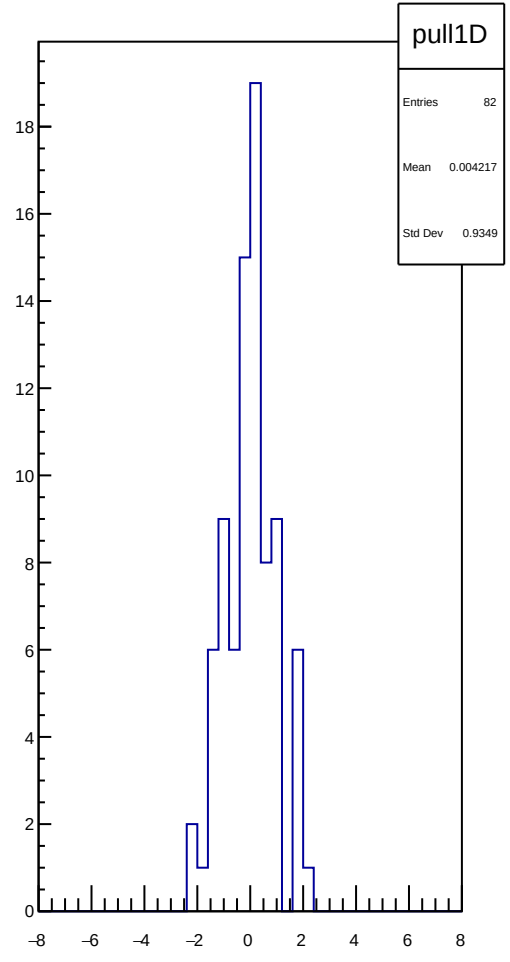

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1675 / 81
p0 1009 ± 0.7901
1100
1050
1000
950
900

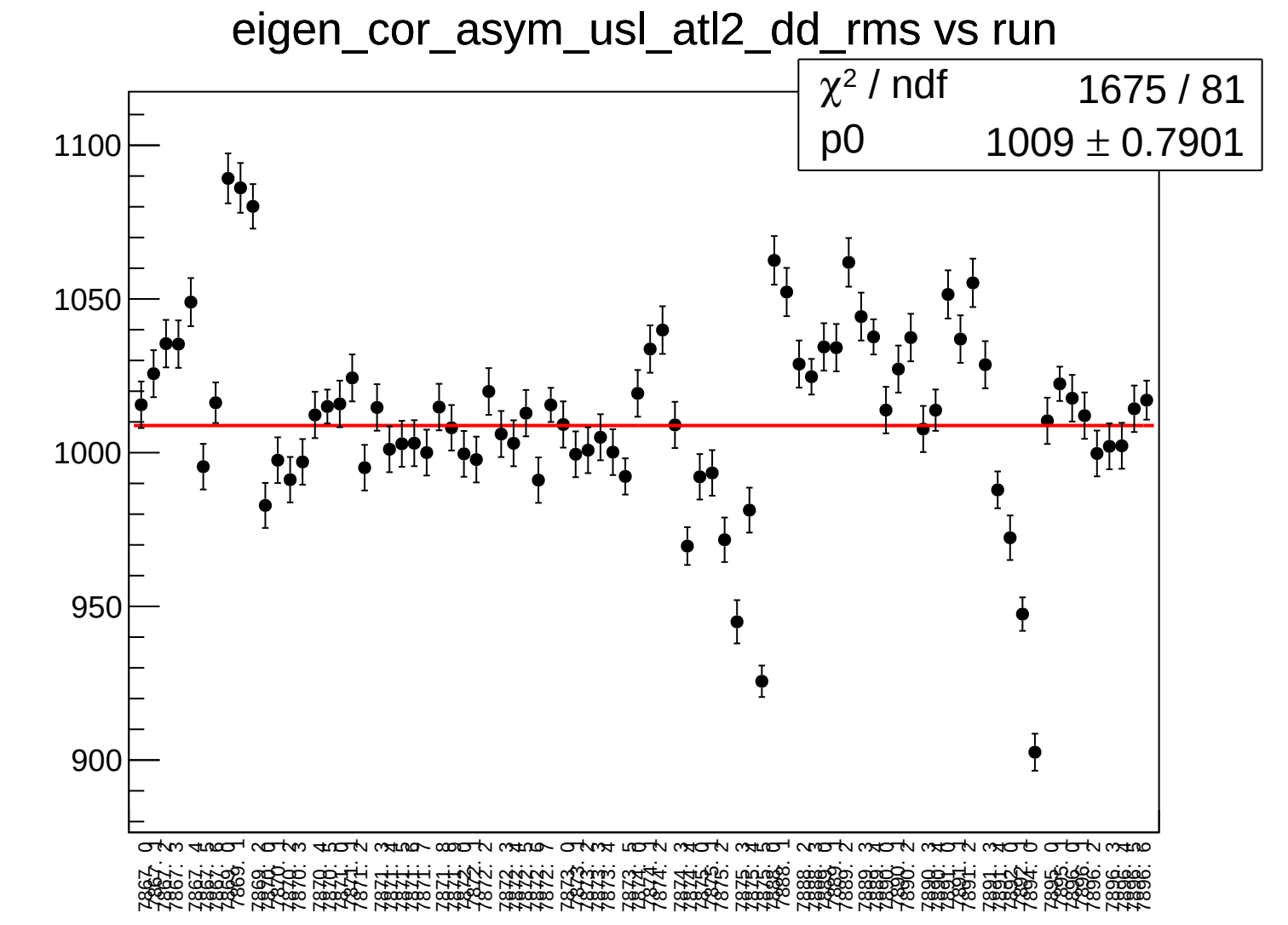

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 66.29 / 81
p0 −2456 ± 4935
pull
Entries 82
Mean −126.5
Std Dev 0

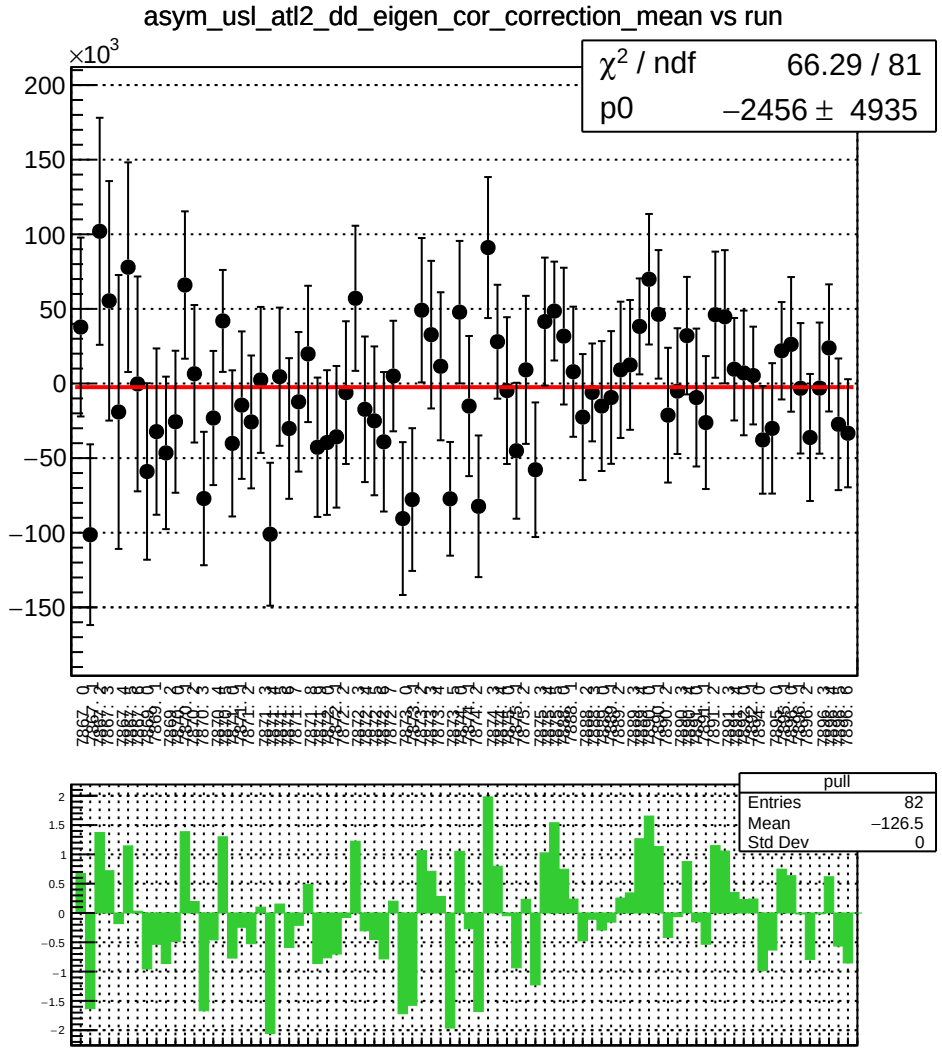

pull1D
Entries 82
Mean −0.01673
Std Dev 0.899

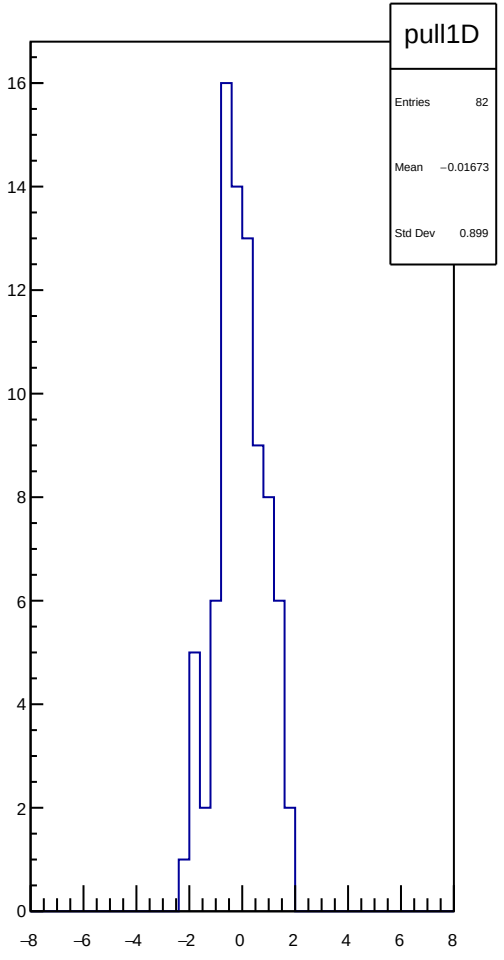

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2.591e+04 / 81
p0 4423 ± 3.49
9000
8000
7000
6000
5000
4000

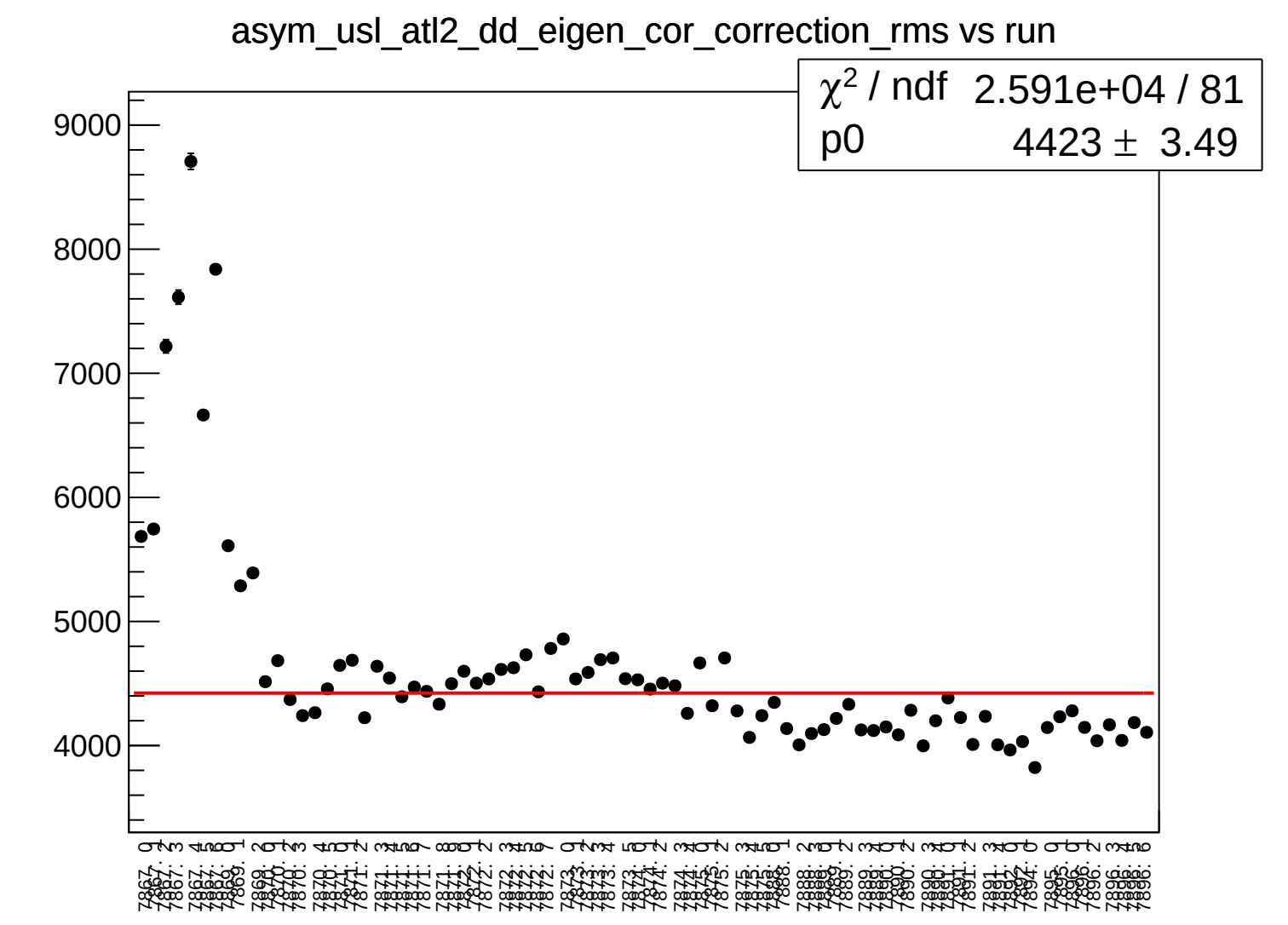

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.67 / 81
p0 1732 ± 1117
pull
Entries 82
Mean −1.351
Std Dev 141.1

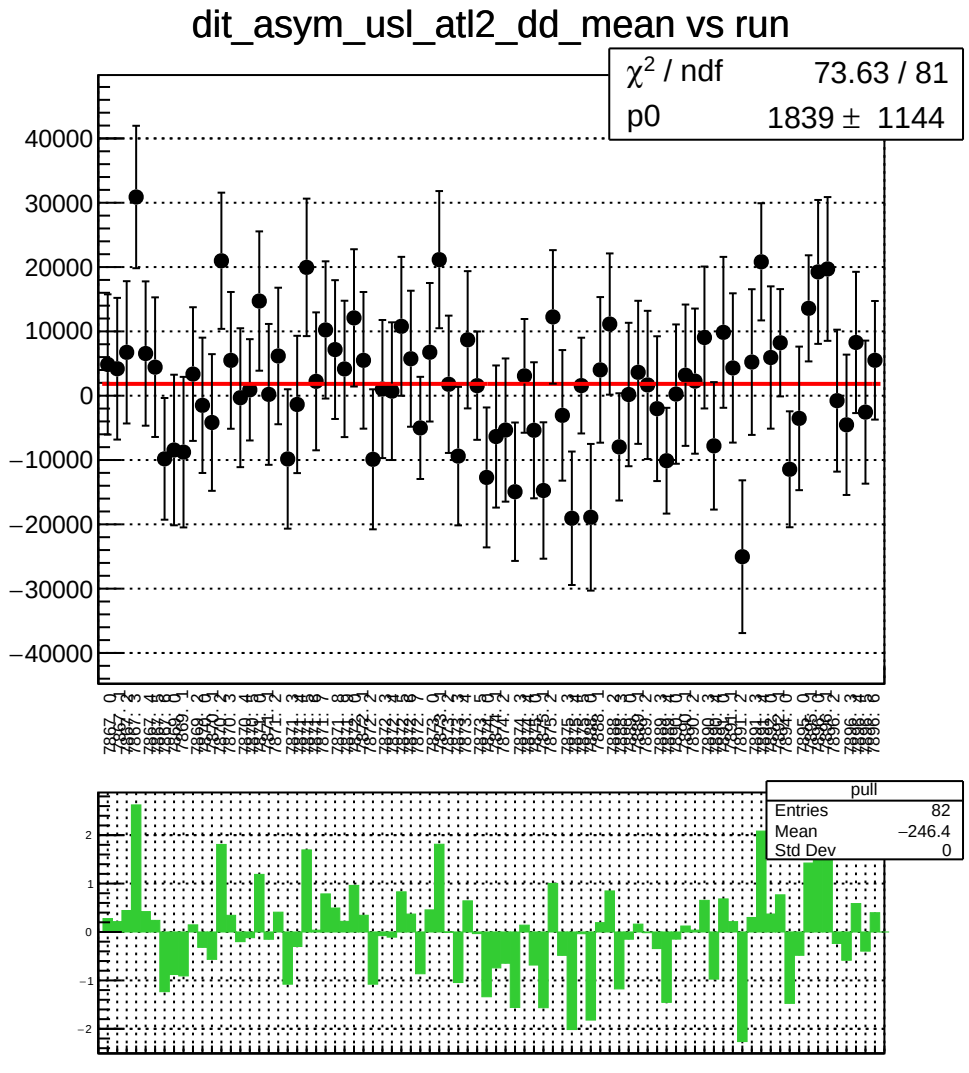

pull1D
Entries 82
Mean 0.004217
Std Dev 0.9349

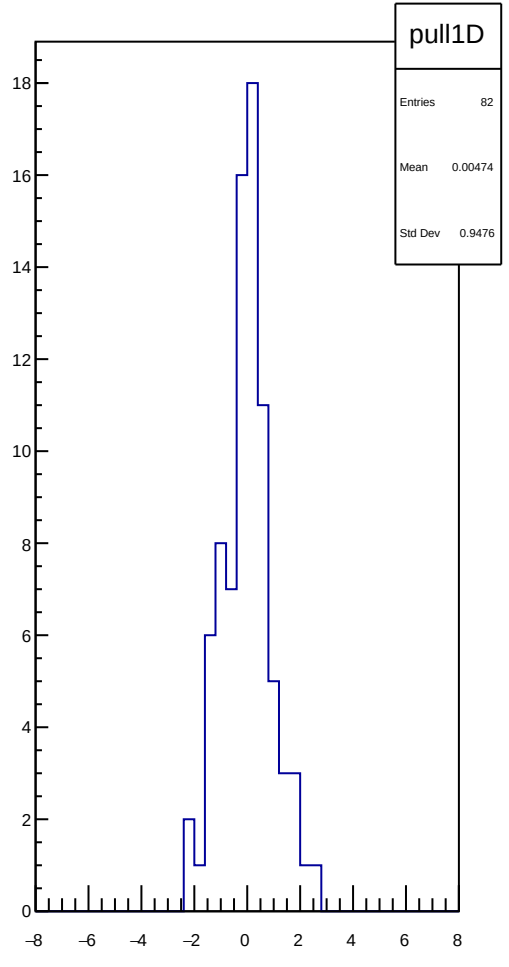

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1675 / 81
p0 1009 ± 0.7901
1100
1050
1000
950
900

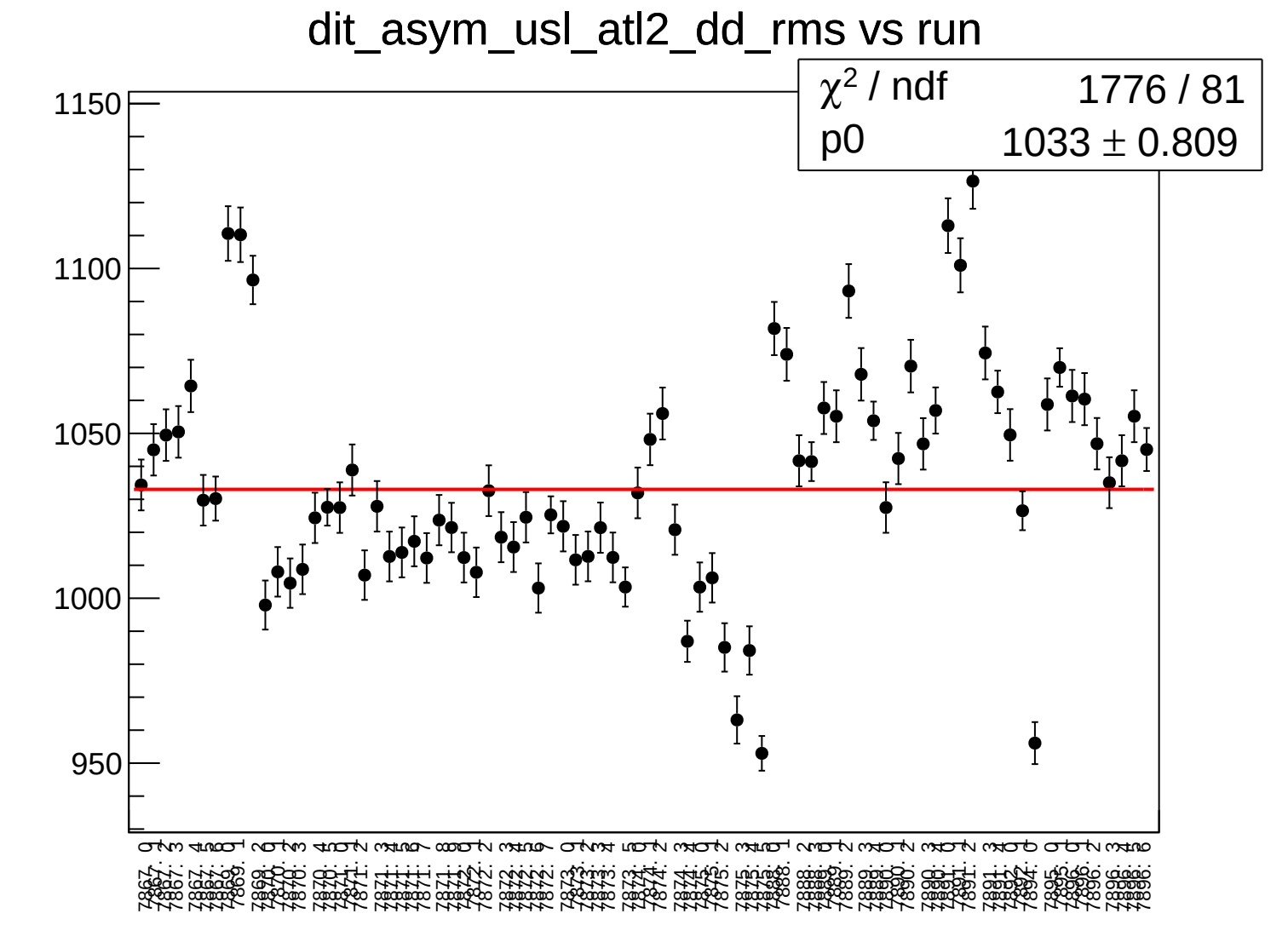

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.29 / 81
p0 −2456 ± 4935
pull
Entries 82
Mean −126.5
Std Dev 0

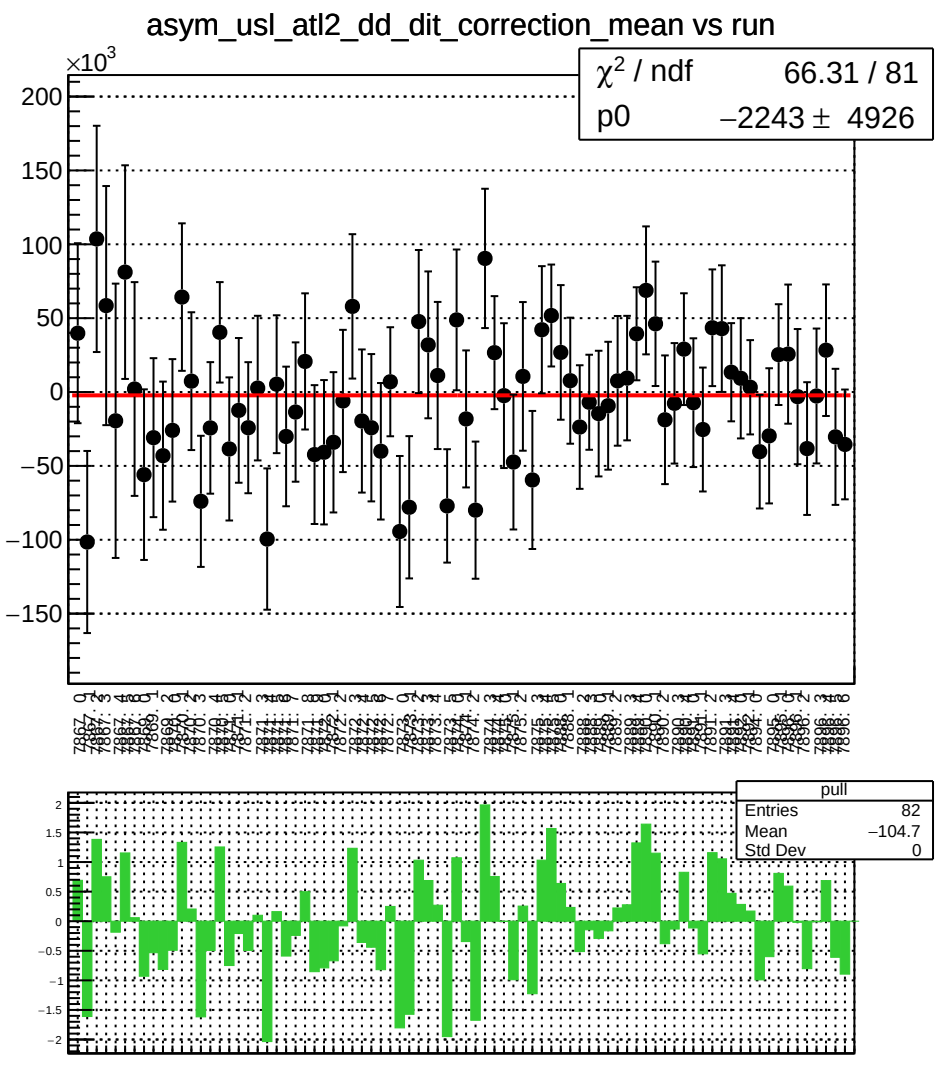

pull1D
Entries 82
Mean −0.01673
Std Dev 0.899

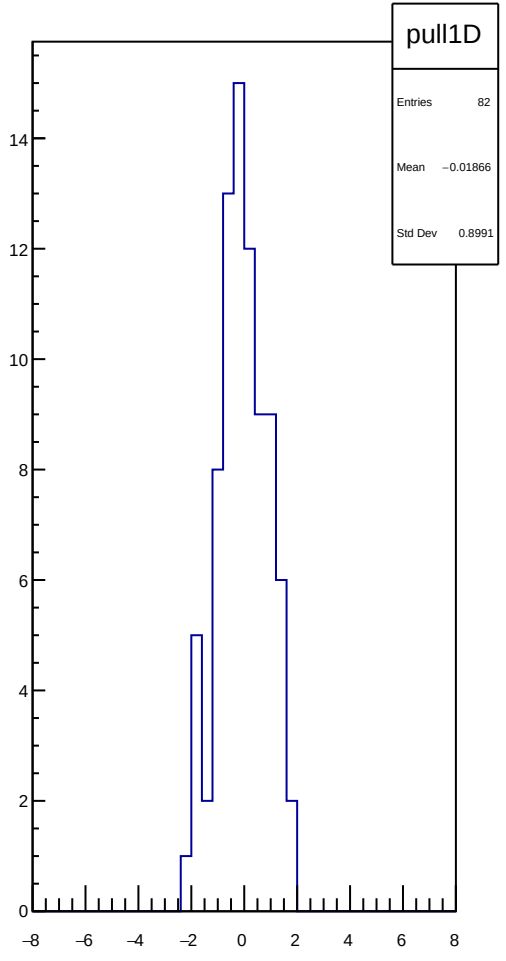

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.591e+04 / 81
p0 4423 ± 3.49
9000
8000
7000
6000
5000
4000

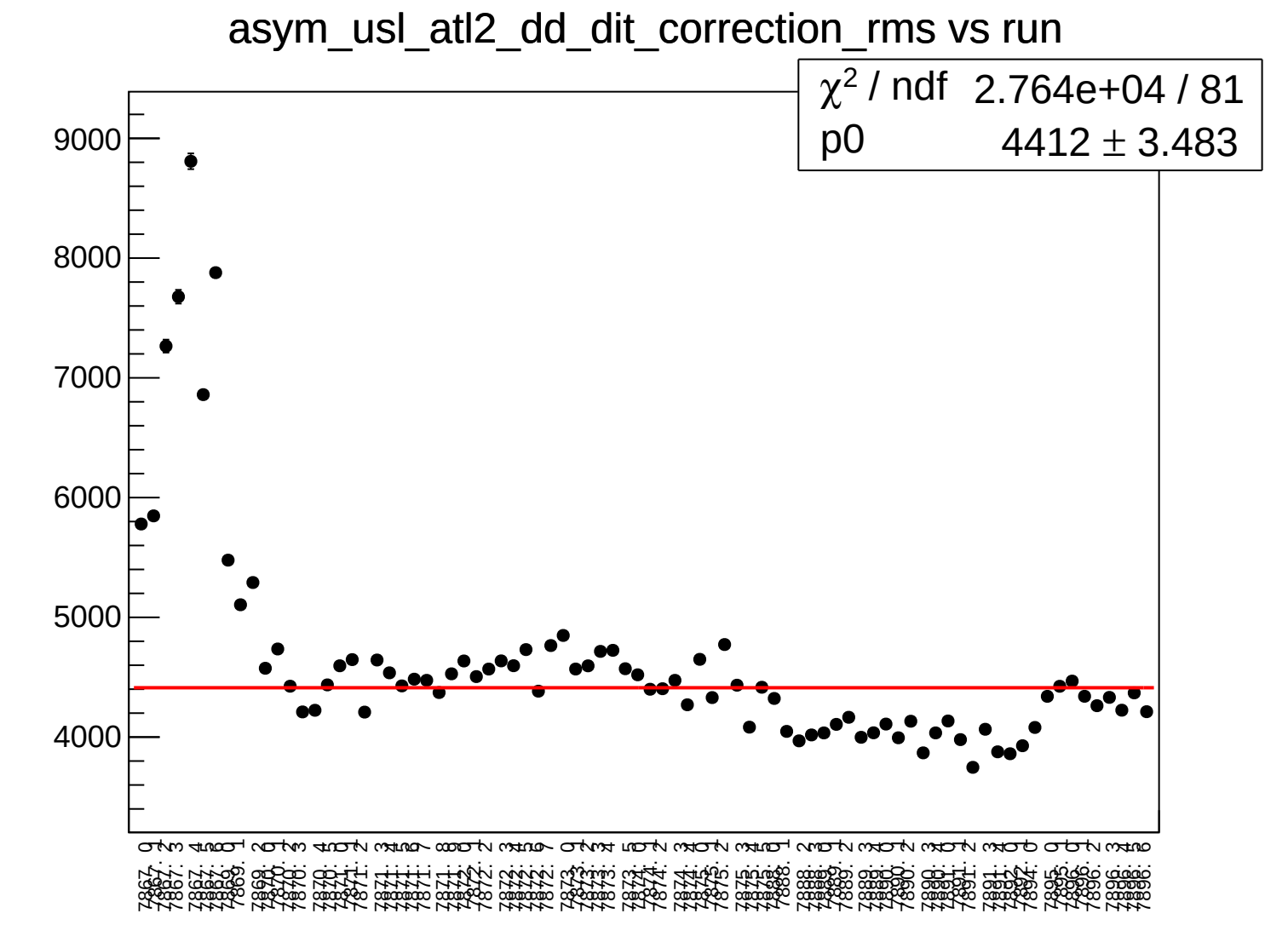

dit_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 73.63 / 81
p0 1839 ± 1144
pull
Entries 82
Mean −246.4
Std Dev 0

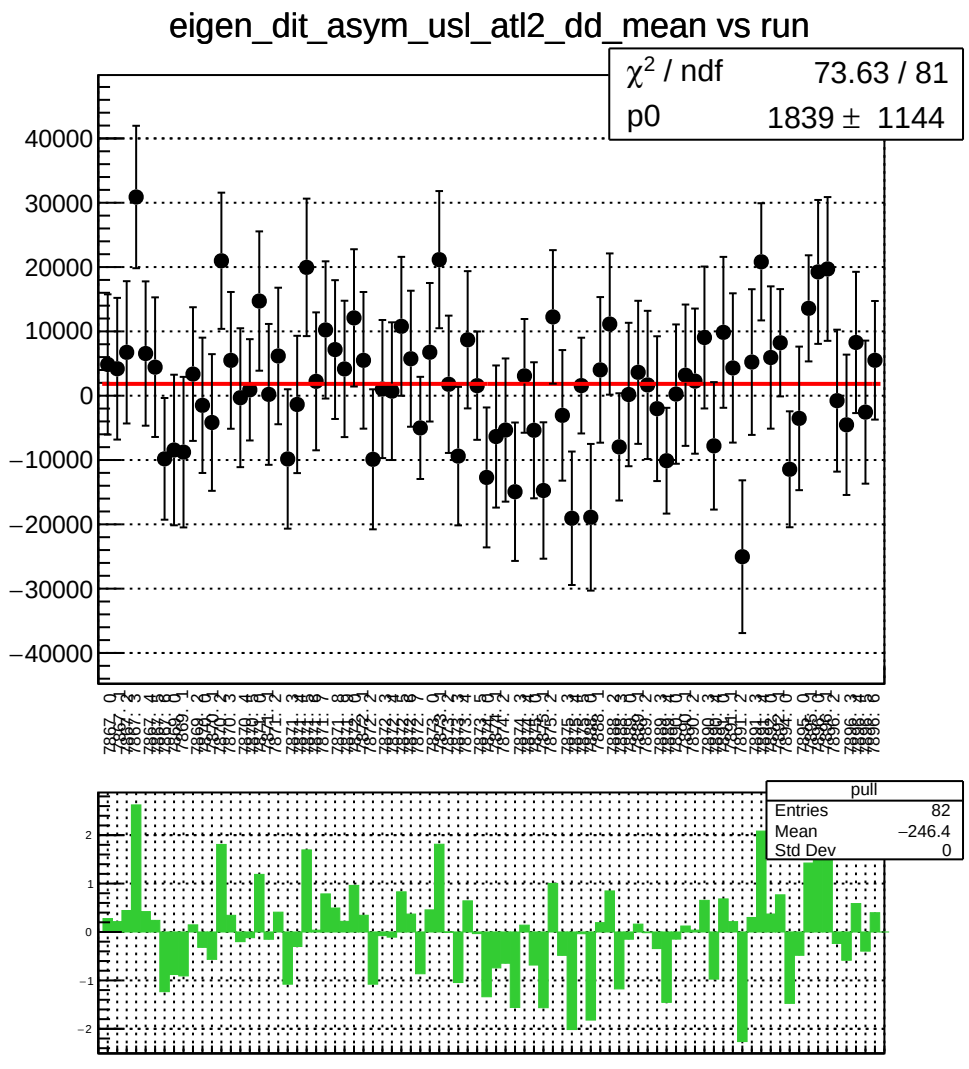

pull1D
Entries 82
Mean 0.00474
Std Dev 0.9476

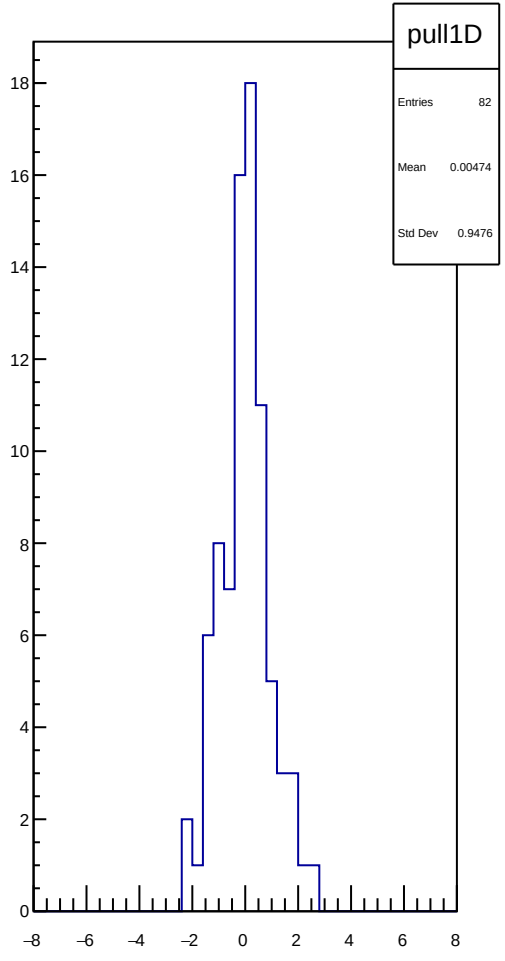

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1776 / 81
p0 1033 ± 0.809
1150
1100
1050
1000
950

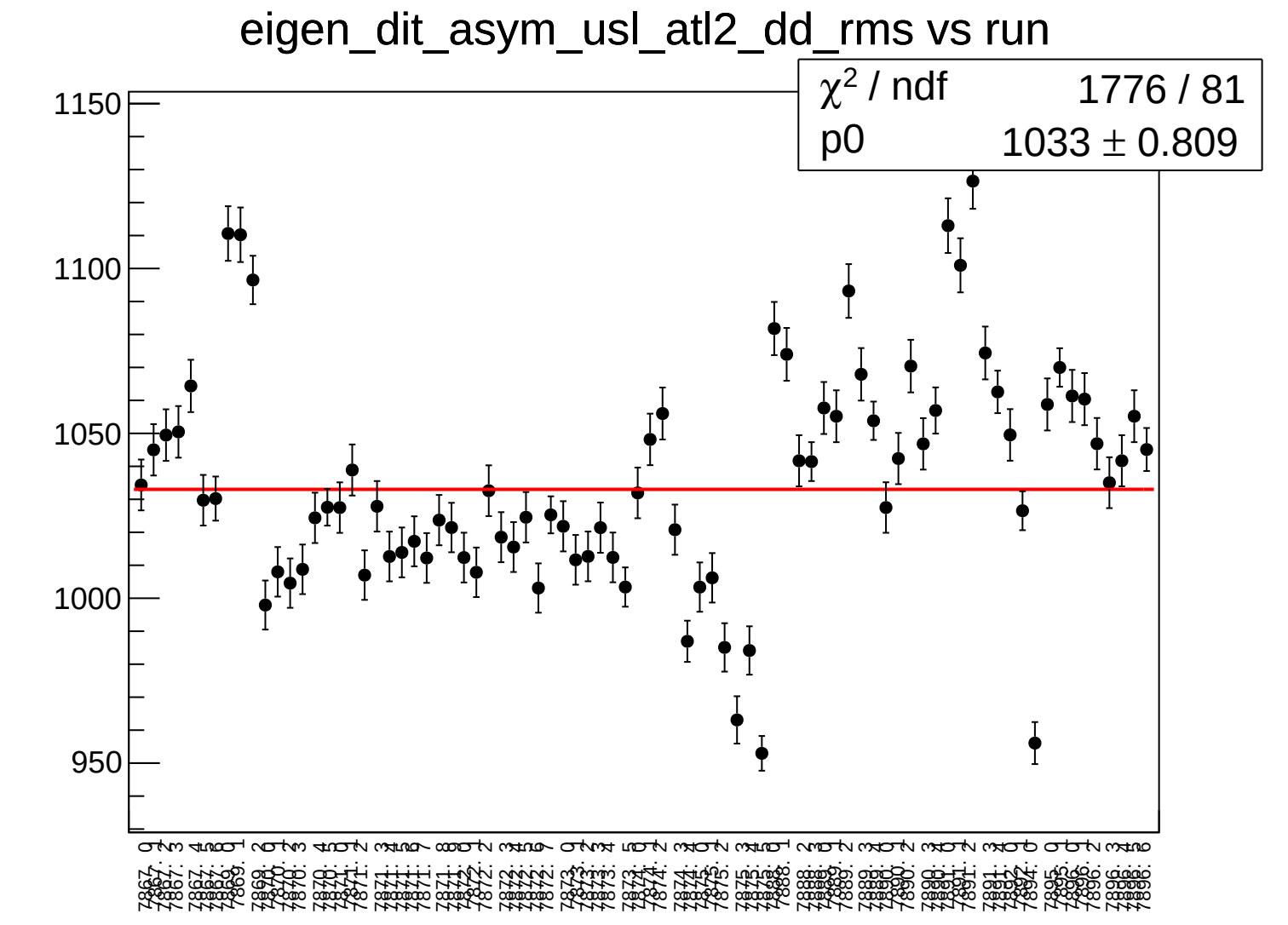

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.31 / 81
p0 −2243 ± 4926
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −104.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

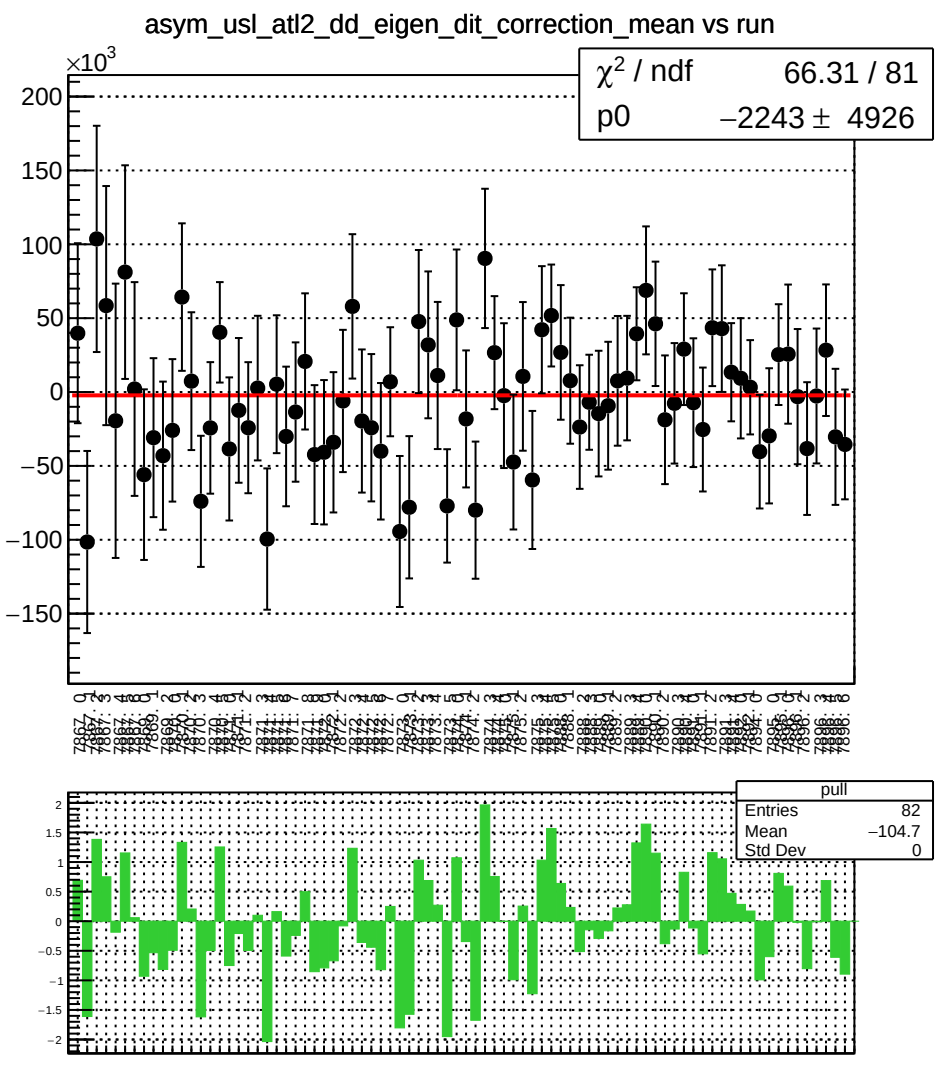

pull1D
Entries 82
Mean −0.01866
Std Dev 0.8991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

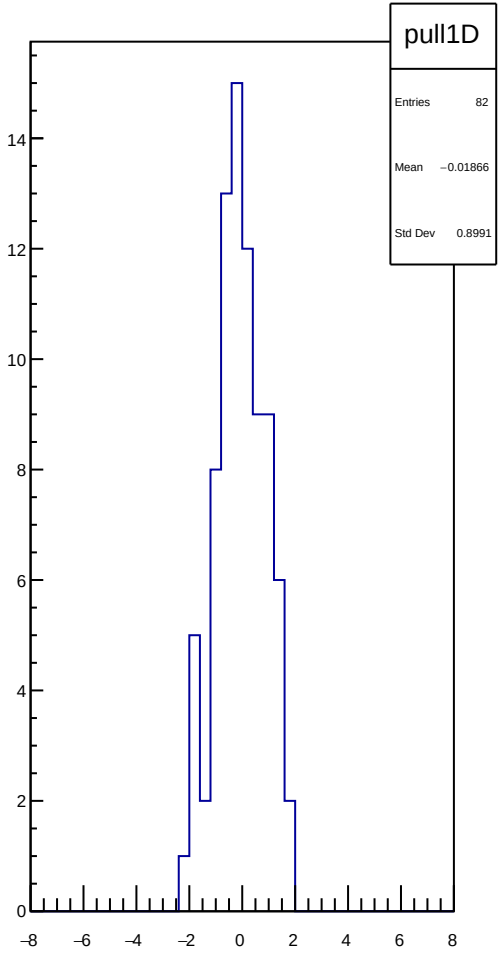

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2.764e+04 / 81
p0 4412 ± 3.483
9000
8000
7000
6000
5000
4000

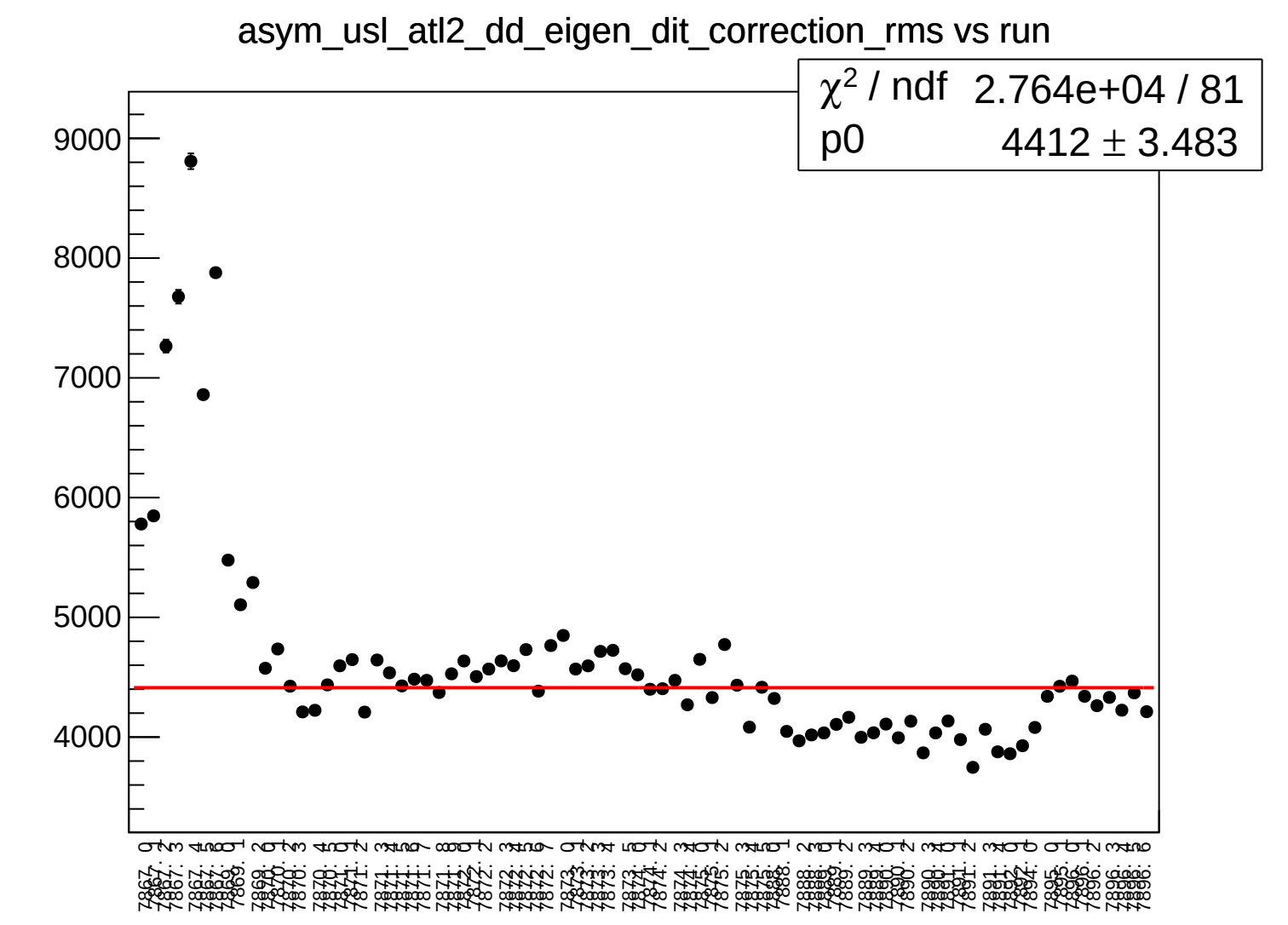

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 73.63 / 81
p0 1839 ± 1144
pull
Entries 82
Mean −246.4
Std Dev 0

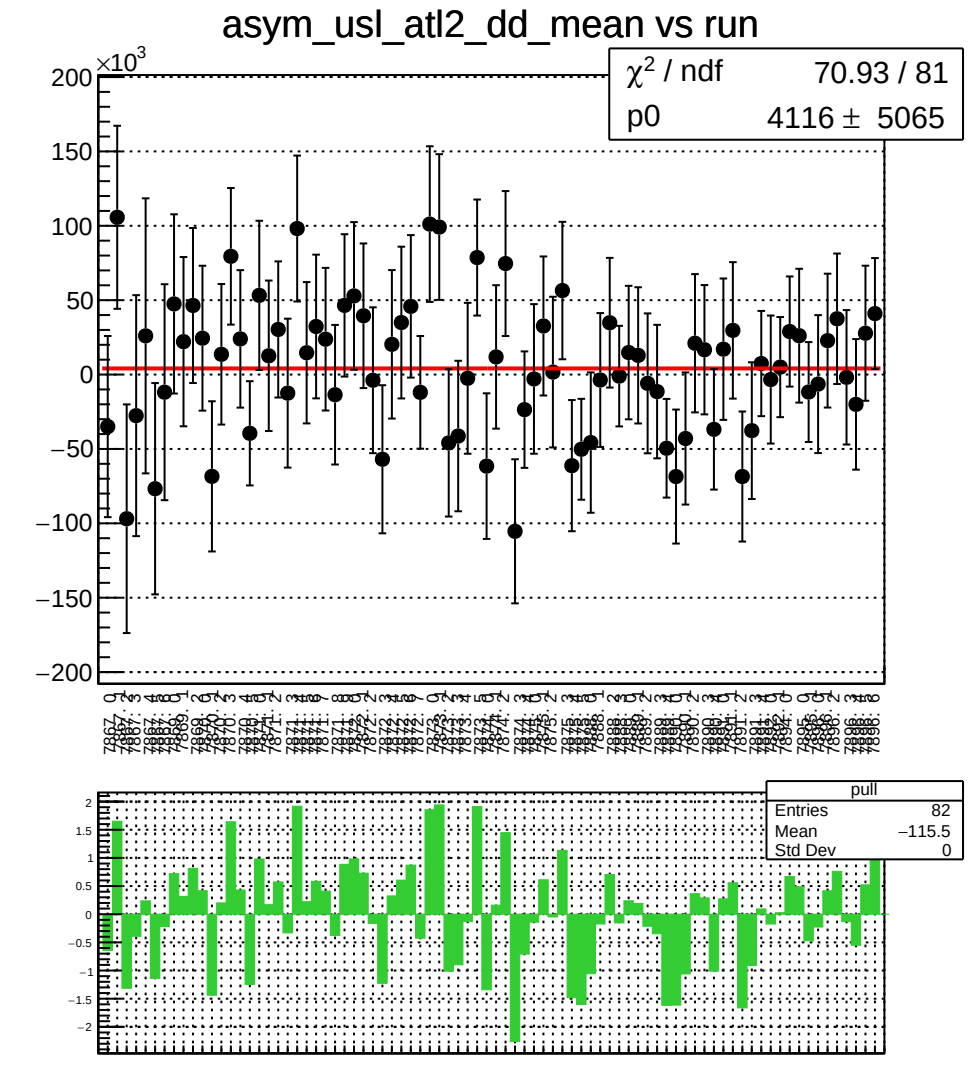

pull1D
Entries 82
Mean 0.00474
Std Dev 0.9476

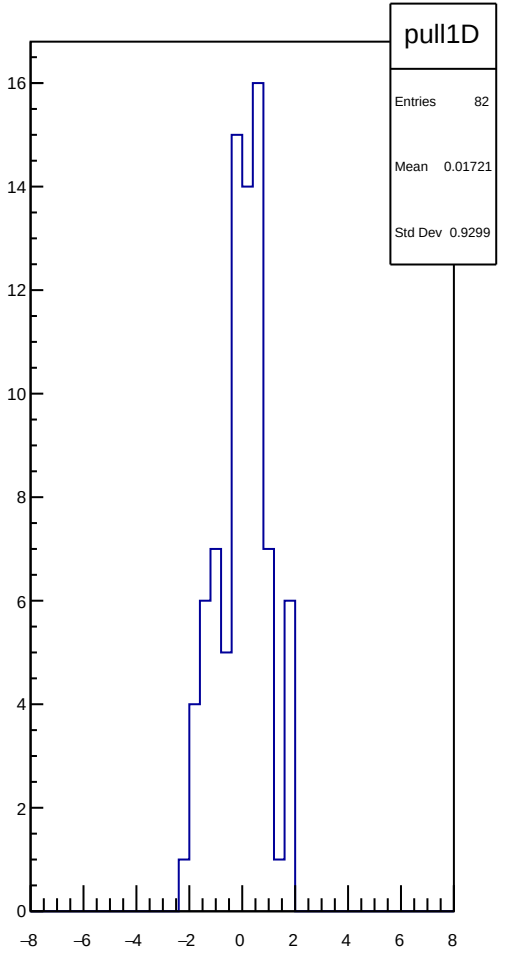

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1776 / 81
p0 1033 ± 0.809
1150
1100
1050
1000
950

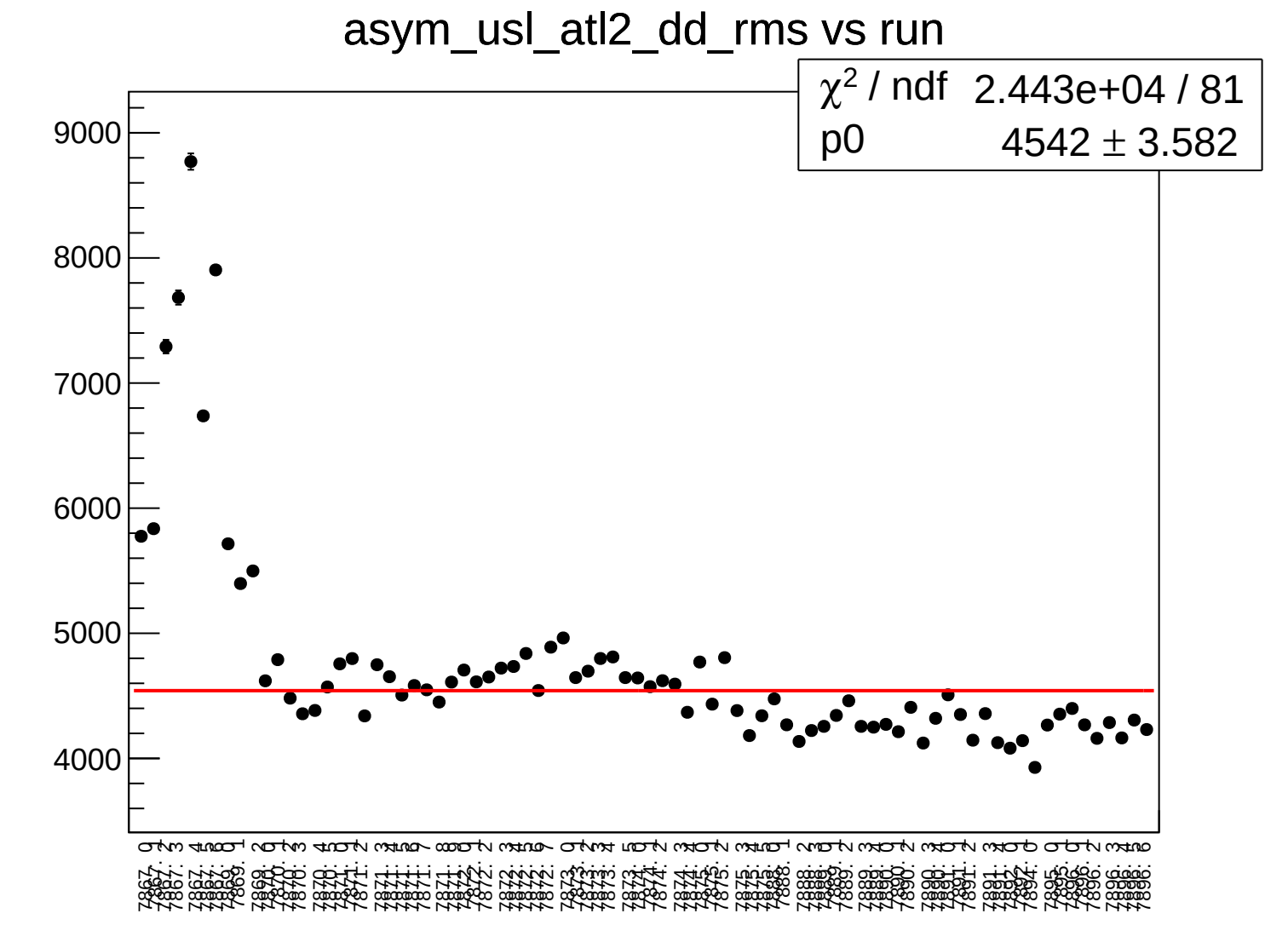

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.31 / 81
p0 −2243 ± 4926
pull
Entries 82
Mean −104.7
Std Dev 0

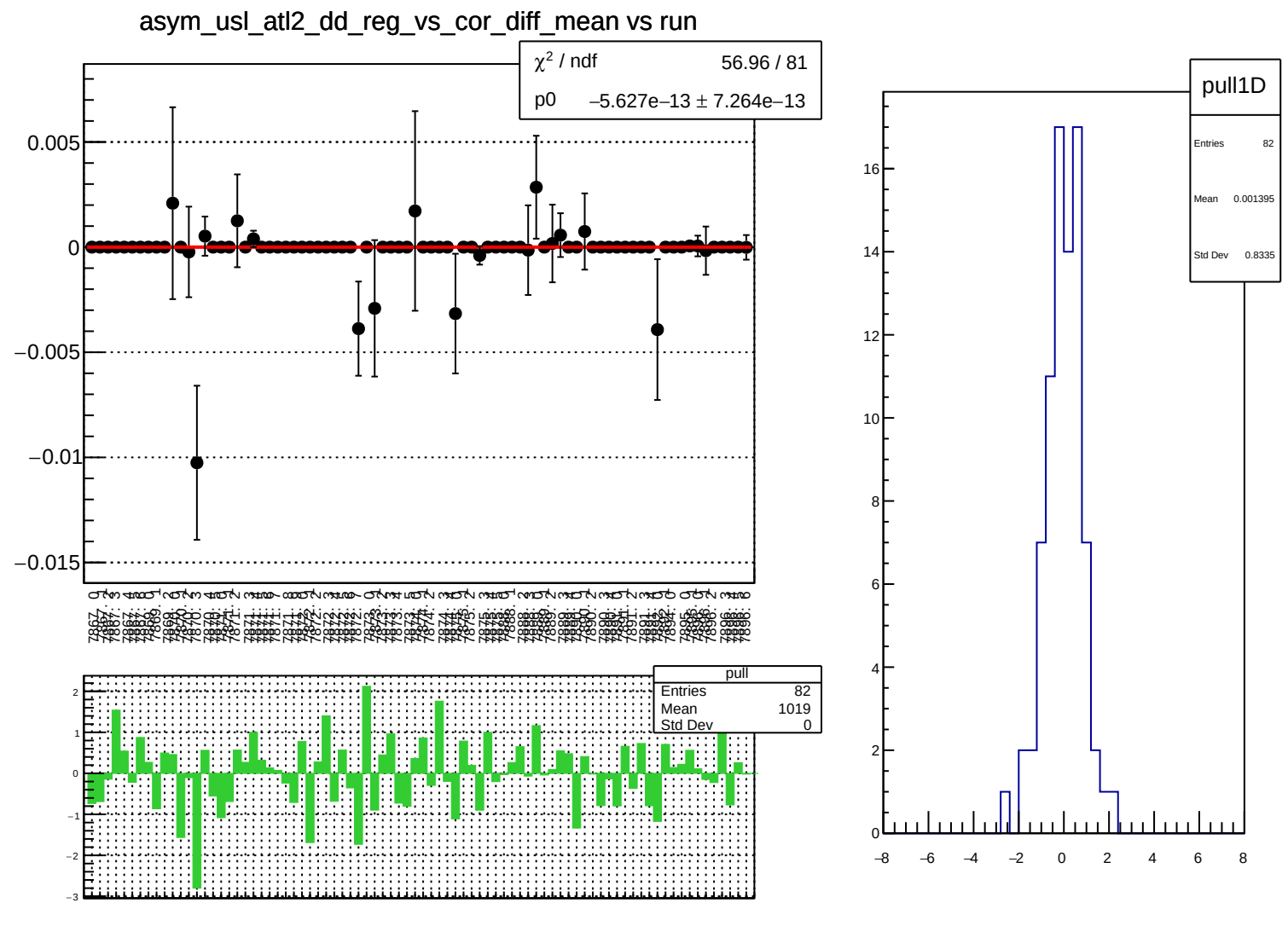

pull1D
Entries 82
Mean −0.01866
Std Dev 0.8991

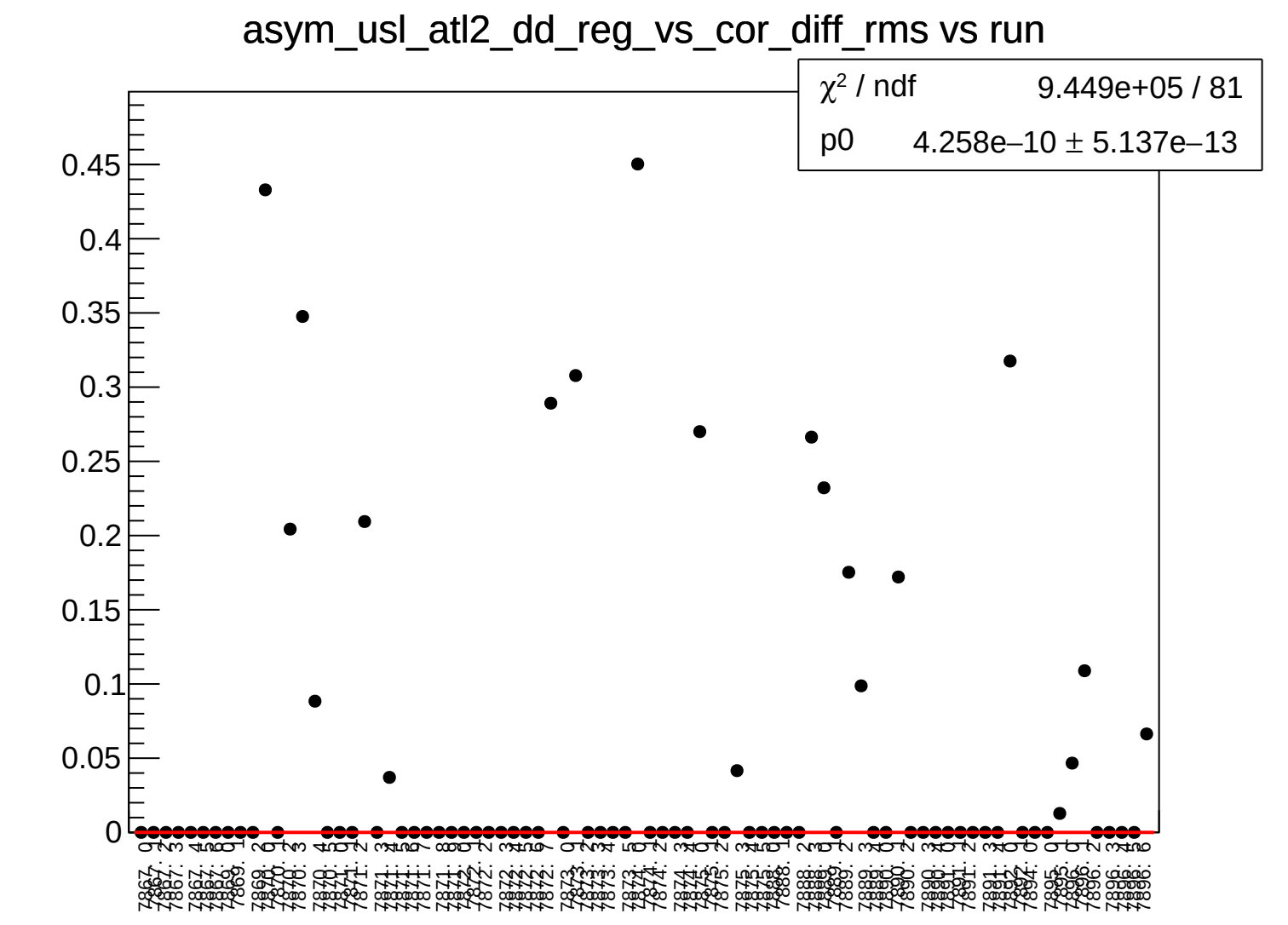

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.764e+04 / 81
p0 4412 ± 3.483
9000
8000
7000
6000
5000
4000

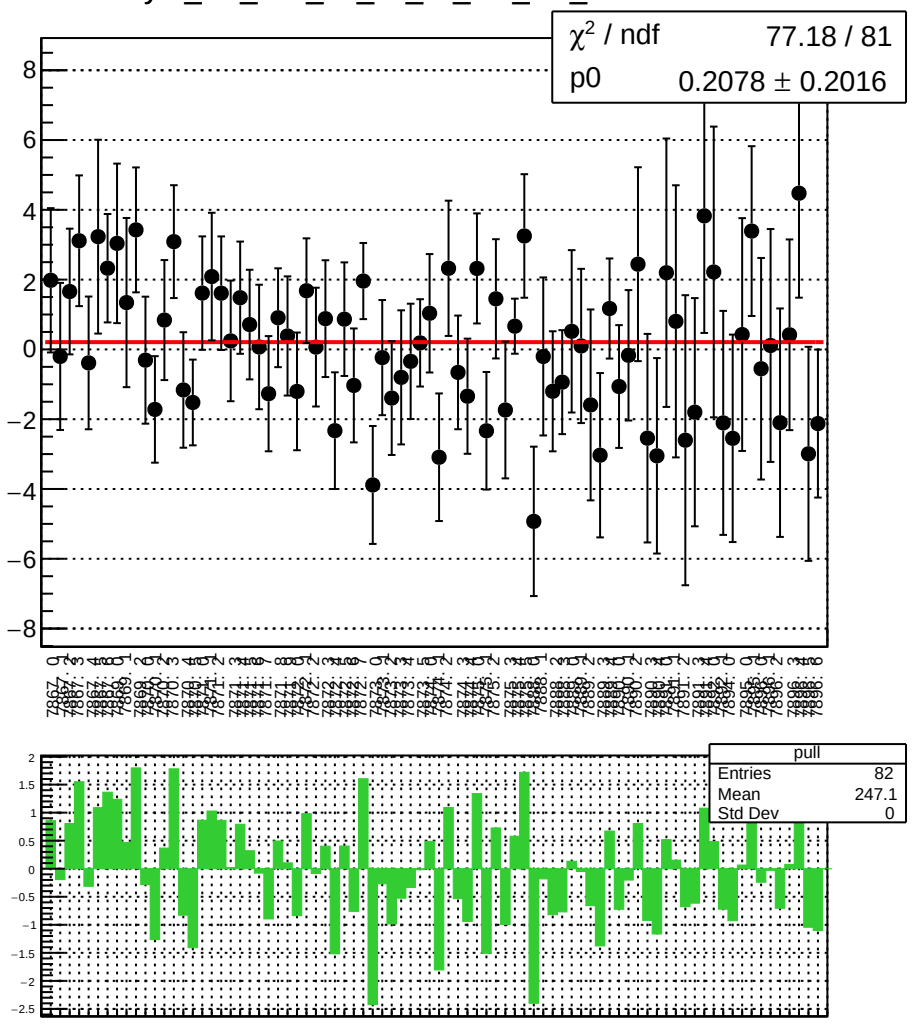

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 70.93 / 81
p0 4116 ± 5065
pull
Entries 82
Mean −115.5
Std Dev 0

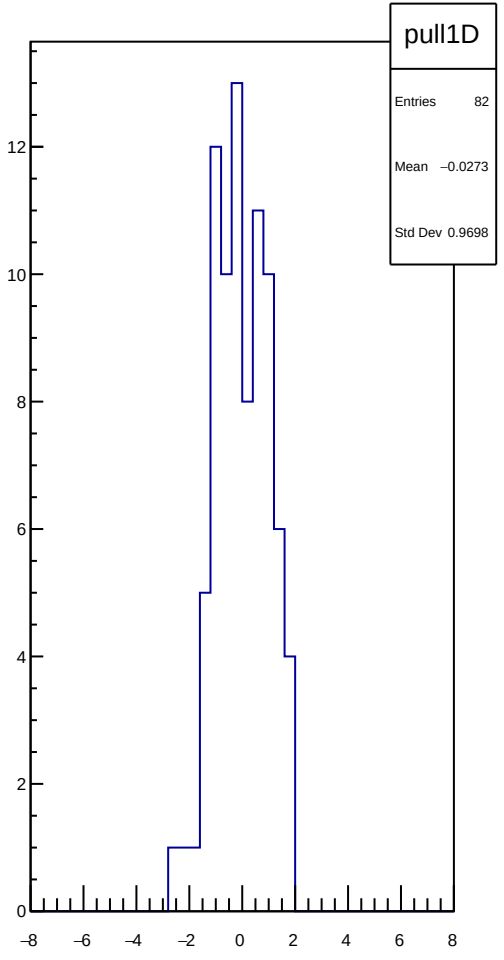

pull1D
Entries 82
Mean 0.01721
Std Dev 0.9299

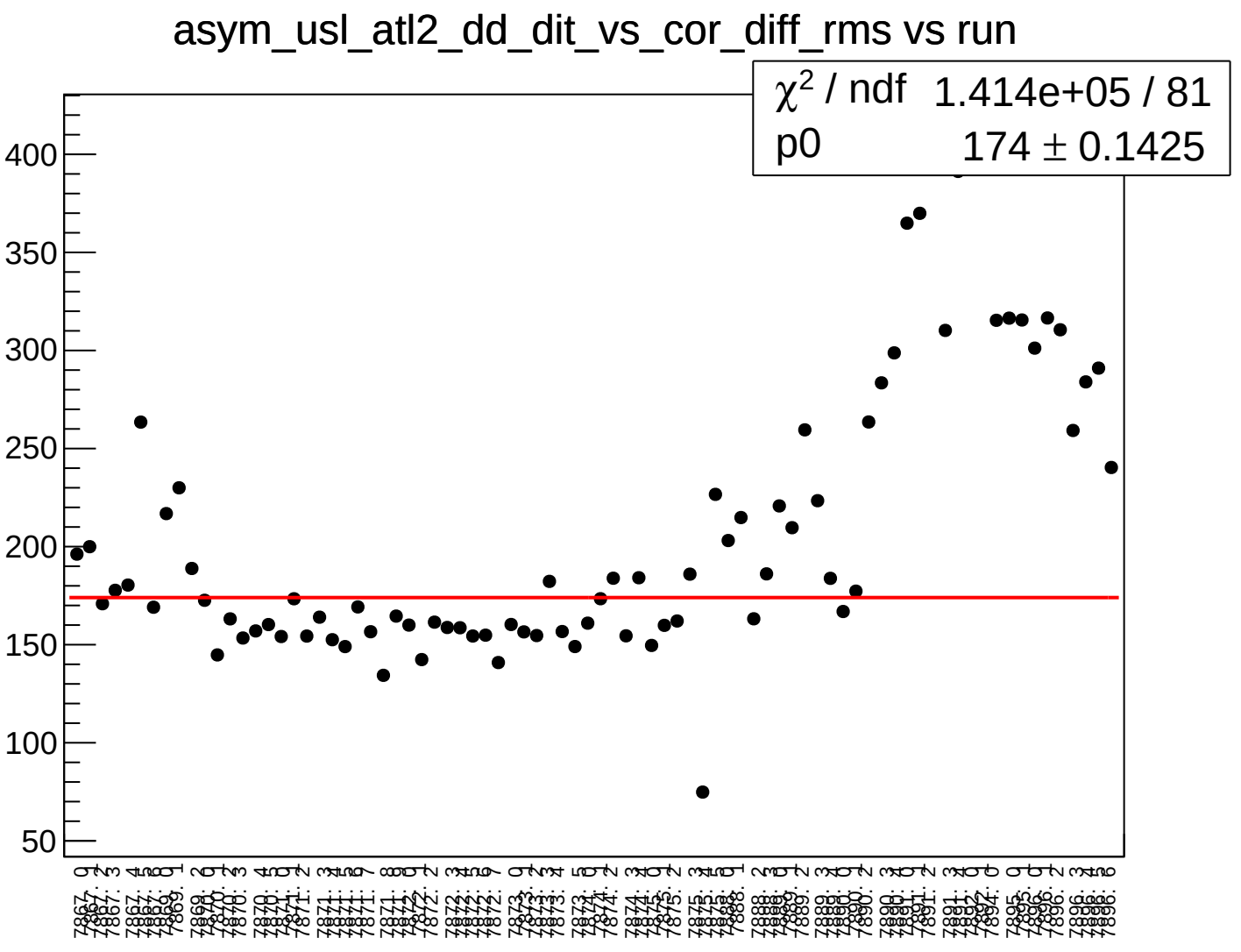

asym_usl_atl2_dd_rms vs run
χ² / ndf 2.443e+04 / 81
p0 4542 ± 3.582
9000
8000
7000
6000
5000
4000

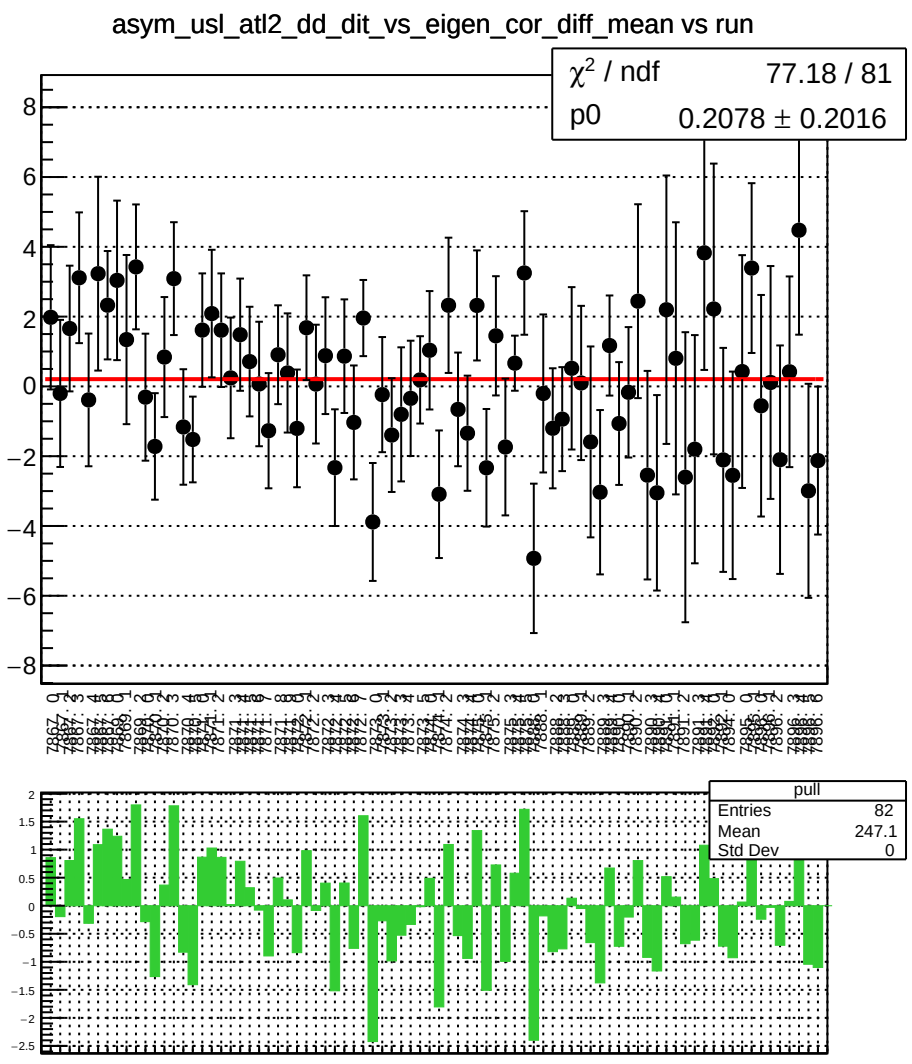

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 56.96 / 81
p0 −5.627e−13 ± 7.264e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean 1019
Std Dev 0
pull1D
Entries 82
Mean 0.001395
Std Dev 0.8335

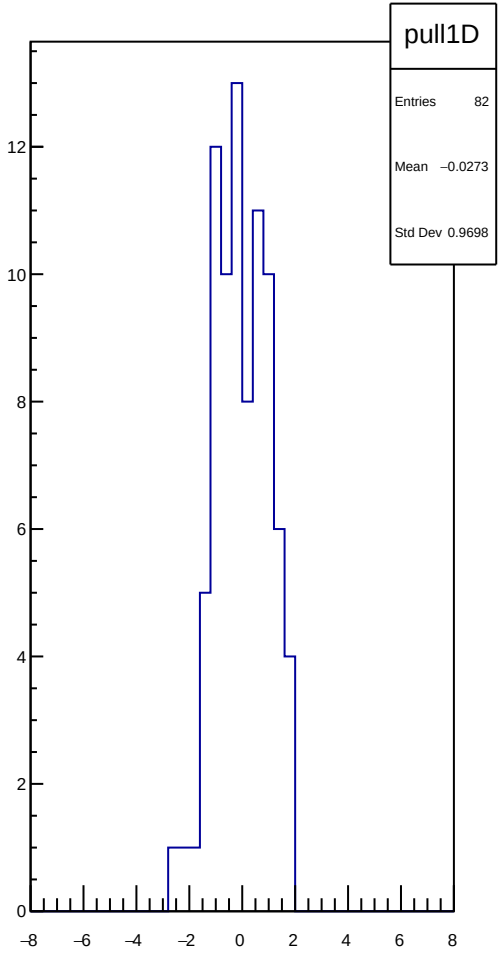

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.449e+05 / 81
p0 4.258e−10 ± 5.137e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

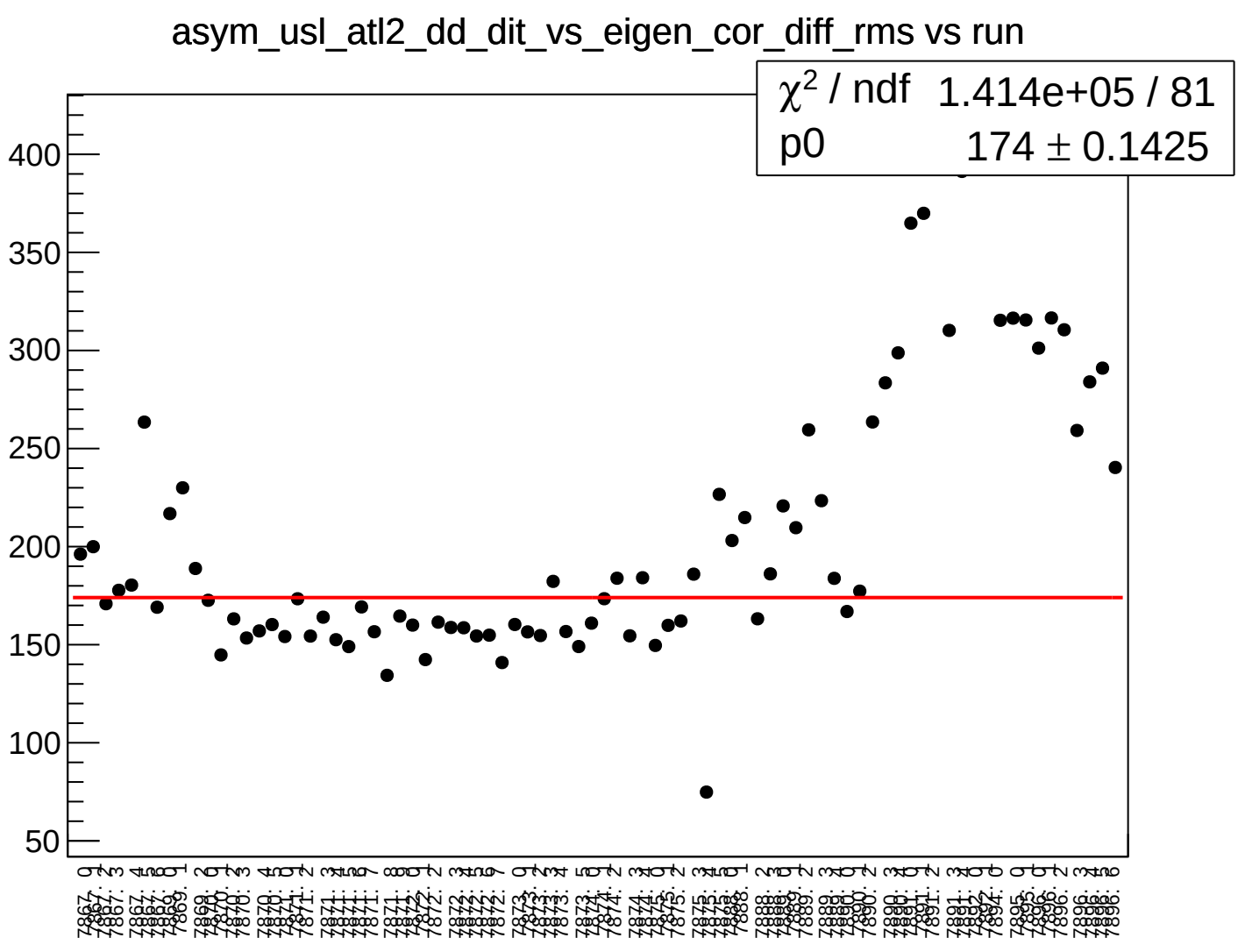

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.18 / 81
p0 0.2078 ± 0.2016
pull
Entries 82
Mean 247.1
Std Dev 0

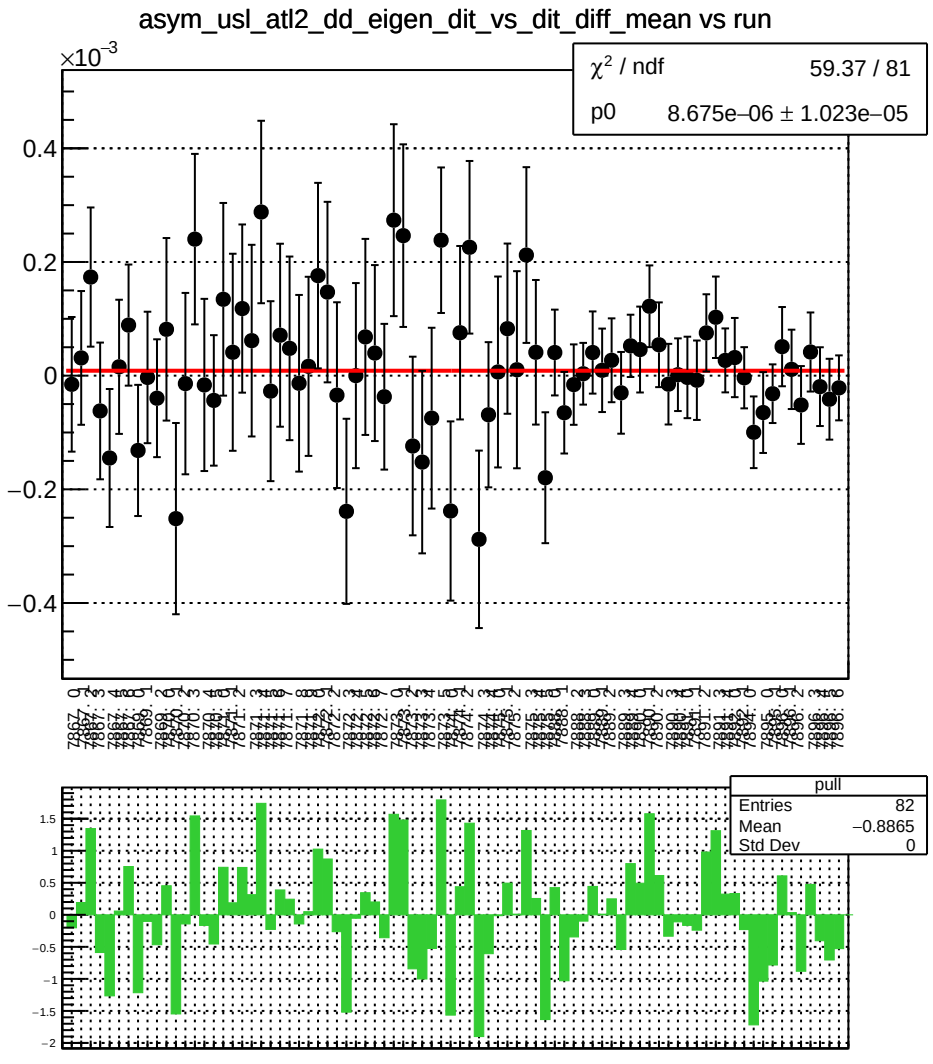

pull1D
Entries 82
Mean −0.0273
Std Dev 0.9698

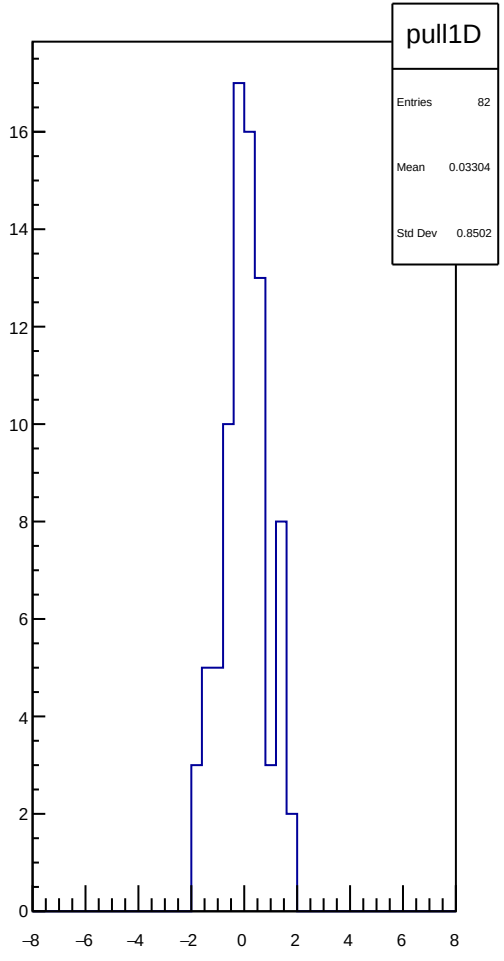

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.414e+05 / 81
p0 174 ± 0.1425
400
350
300
250
200
150
100
50

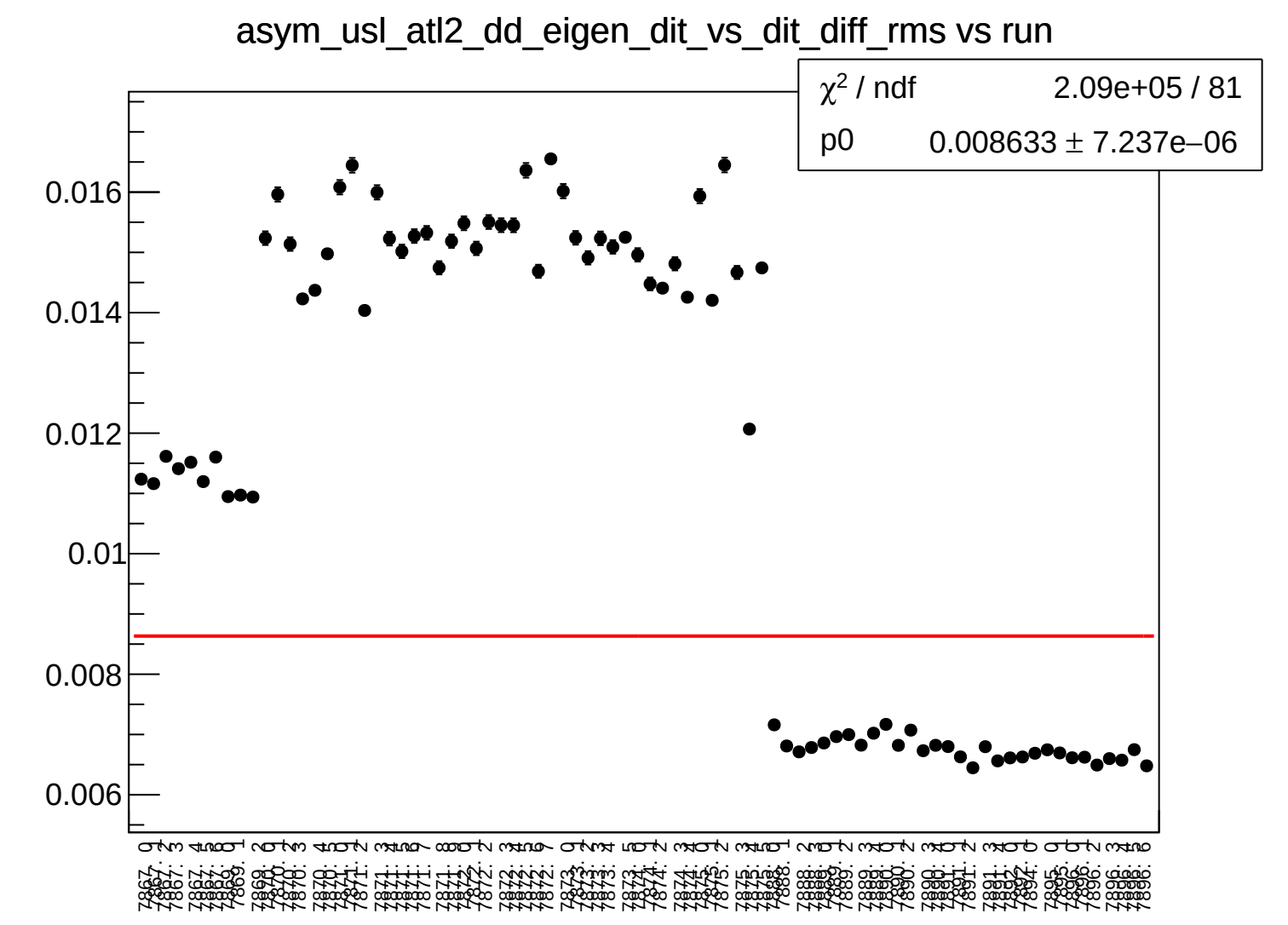

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.18 / 81
p0 0.2078 ± 0.2016
pull
Entries 82
Mean 247.1
Std Dev 0

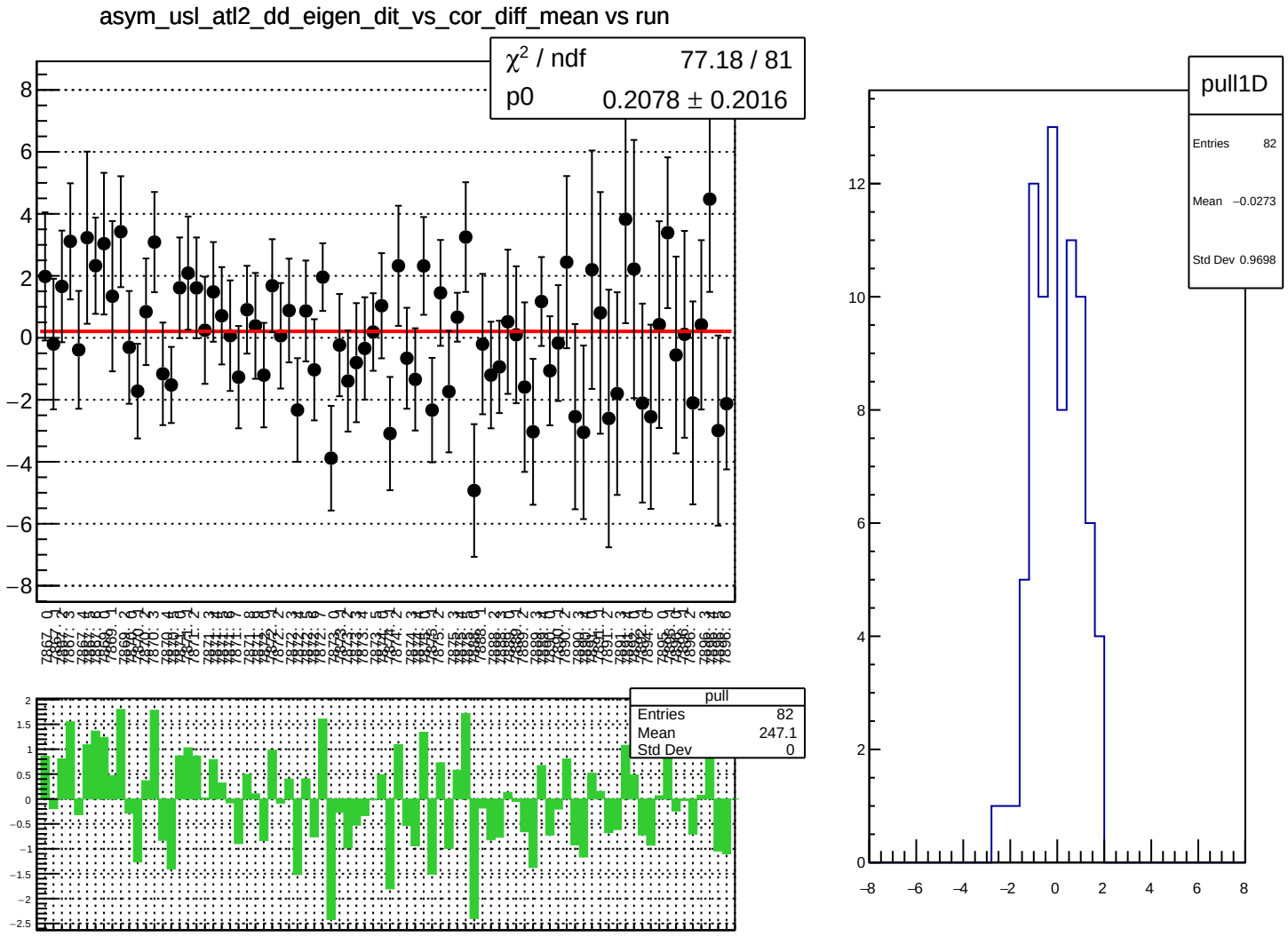

pull1D
Entries 82
Mean −0.0273
Std Dev 0.9698

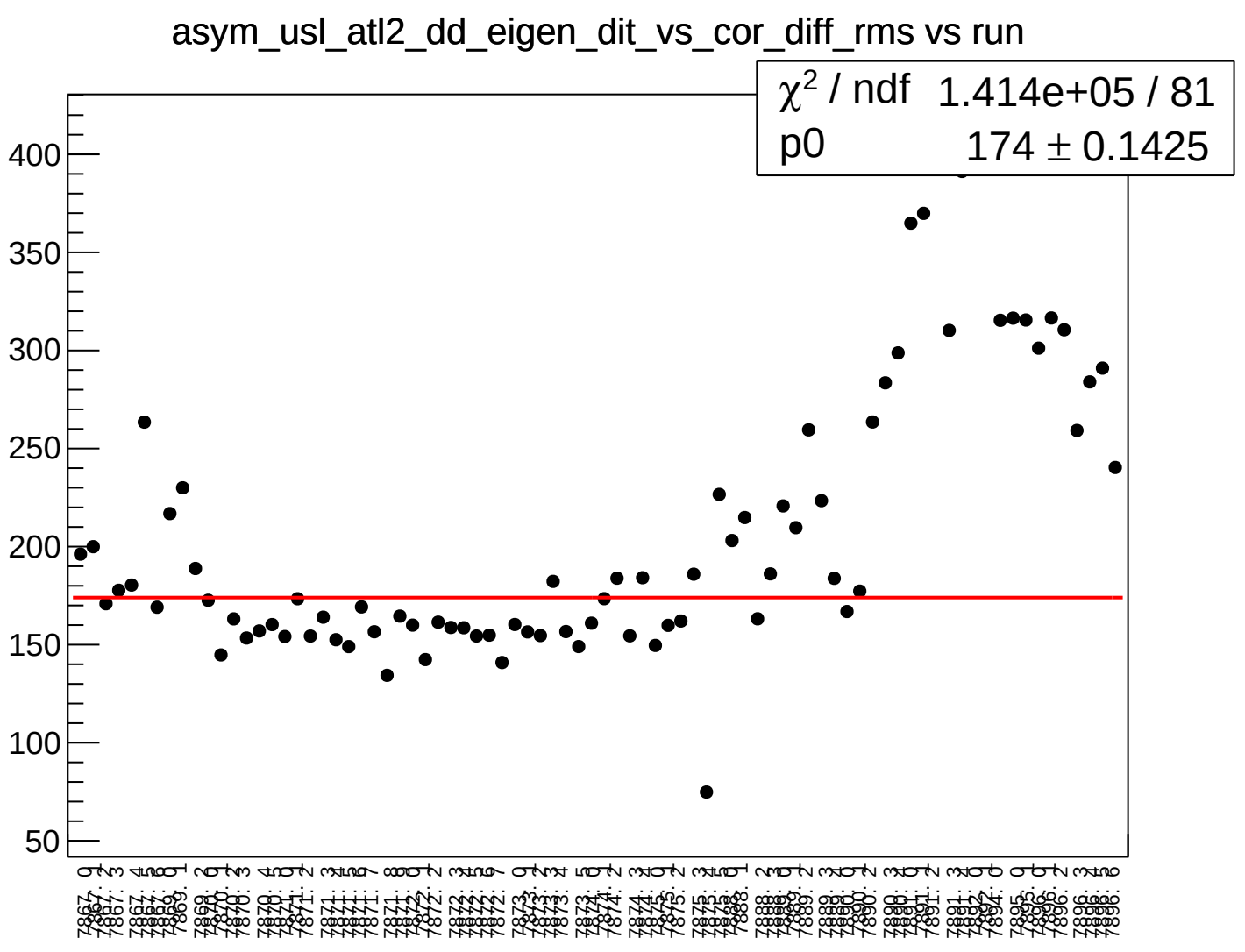

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.414e+05 / 81
p0 174 ± 0.1425
400
350
300
250
200
150
100
50

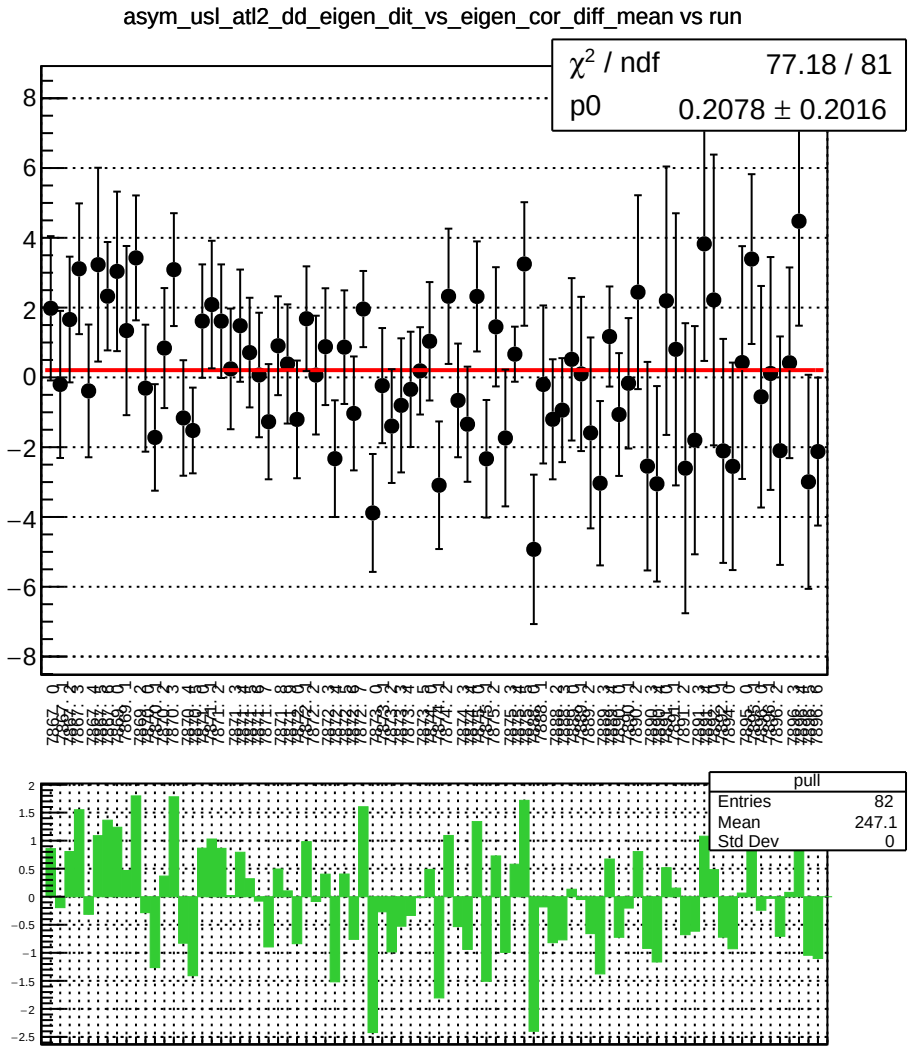

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.37 / 81
p0 8.675e−06 ± 1.023e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean −0.8865
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

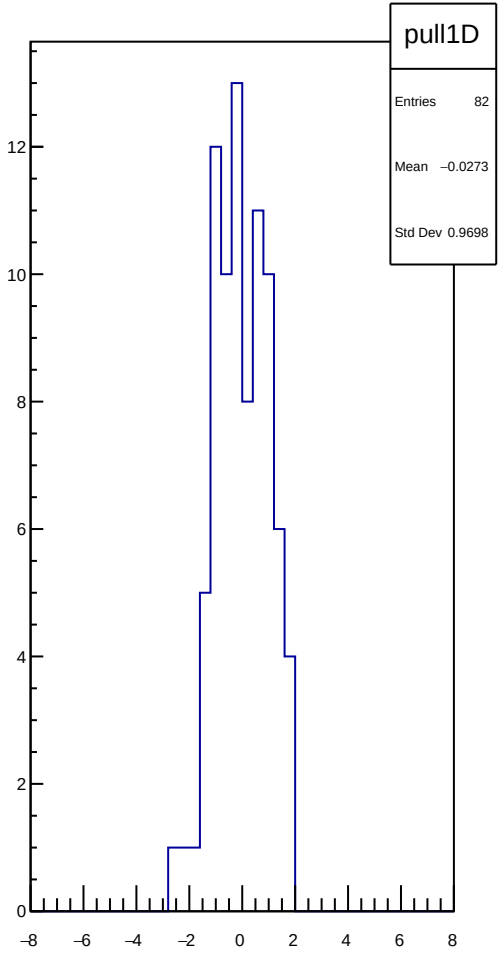

pull1D
Entries 82
Mean 0.03304
Std Dev 0.8502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

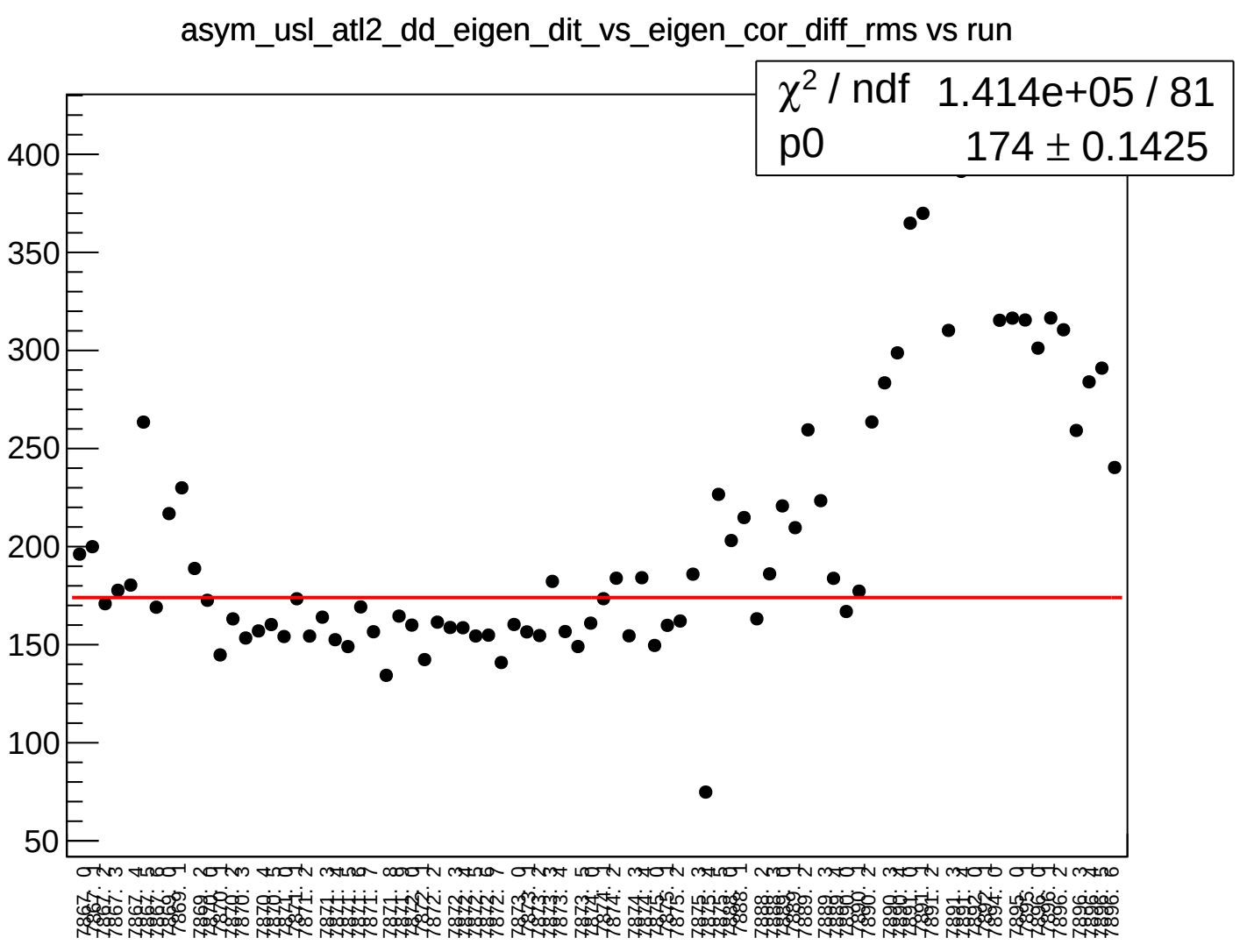

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.09e+05 / 81
p0 0.008633 ± 7.237e−06
0.016
0.014
0.012
0.01
0.008
0.006

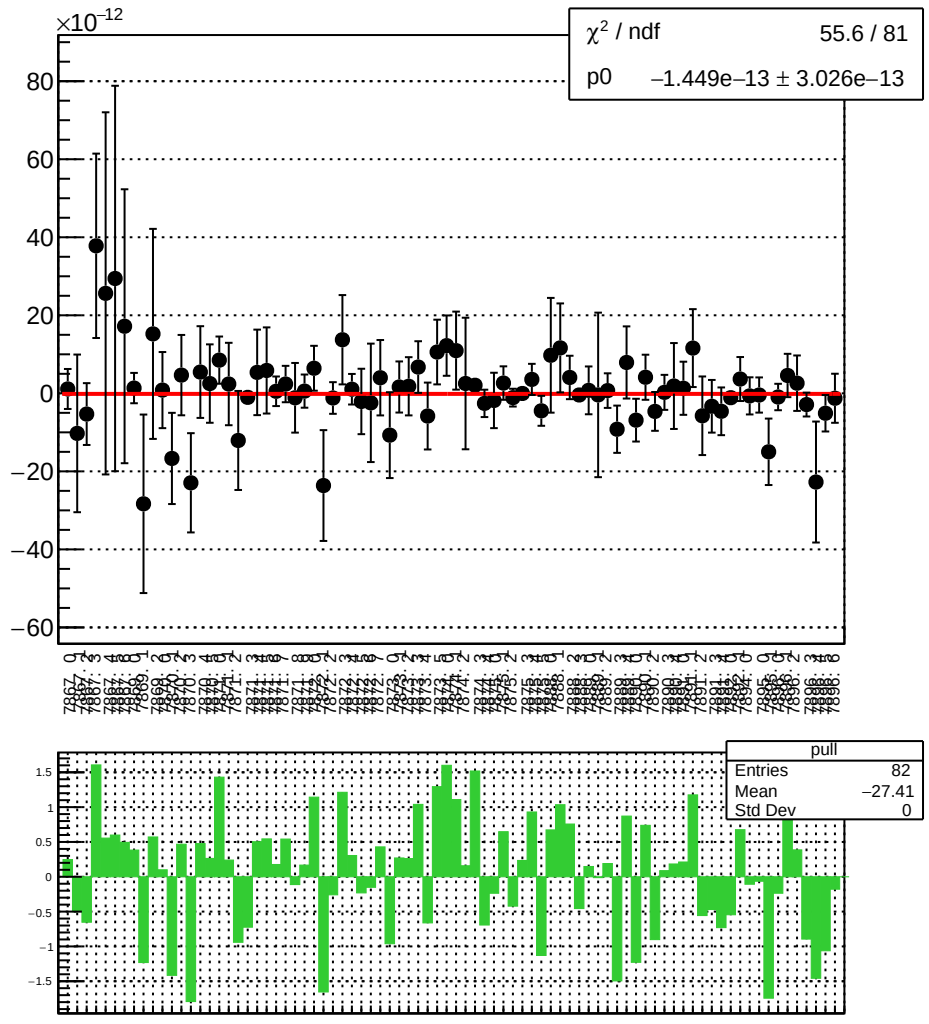

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.18 / 81
p0 0.2078 ± 0.2016
pull
Entries 82
Mean 247.1
Std Dev 0
pull1D
Entries 82
Mean −0.0273
Std Dev 0.9698

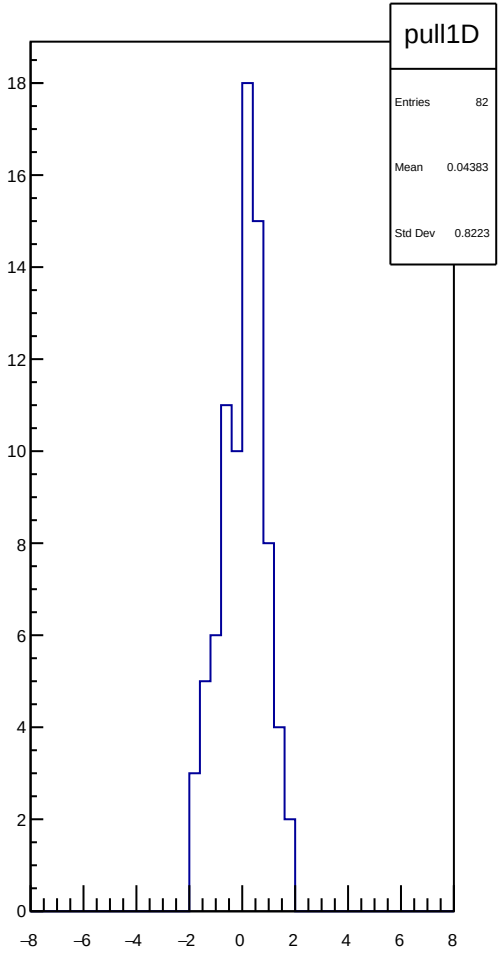

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.414e+05 / 81
p0 174 ± 0.1425
400
350
300
250
200
150
100
50

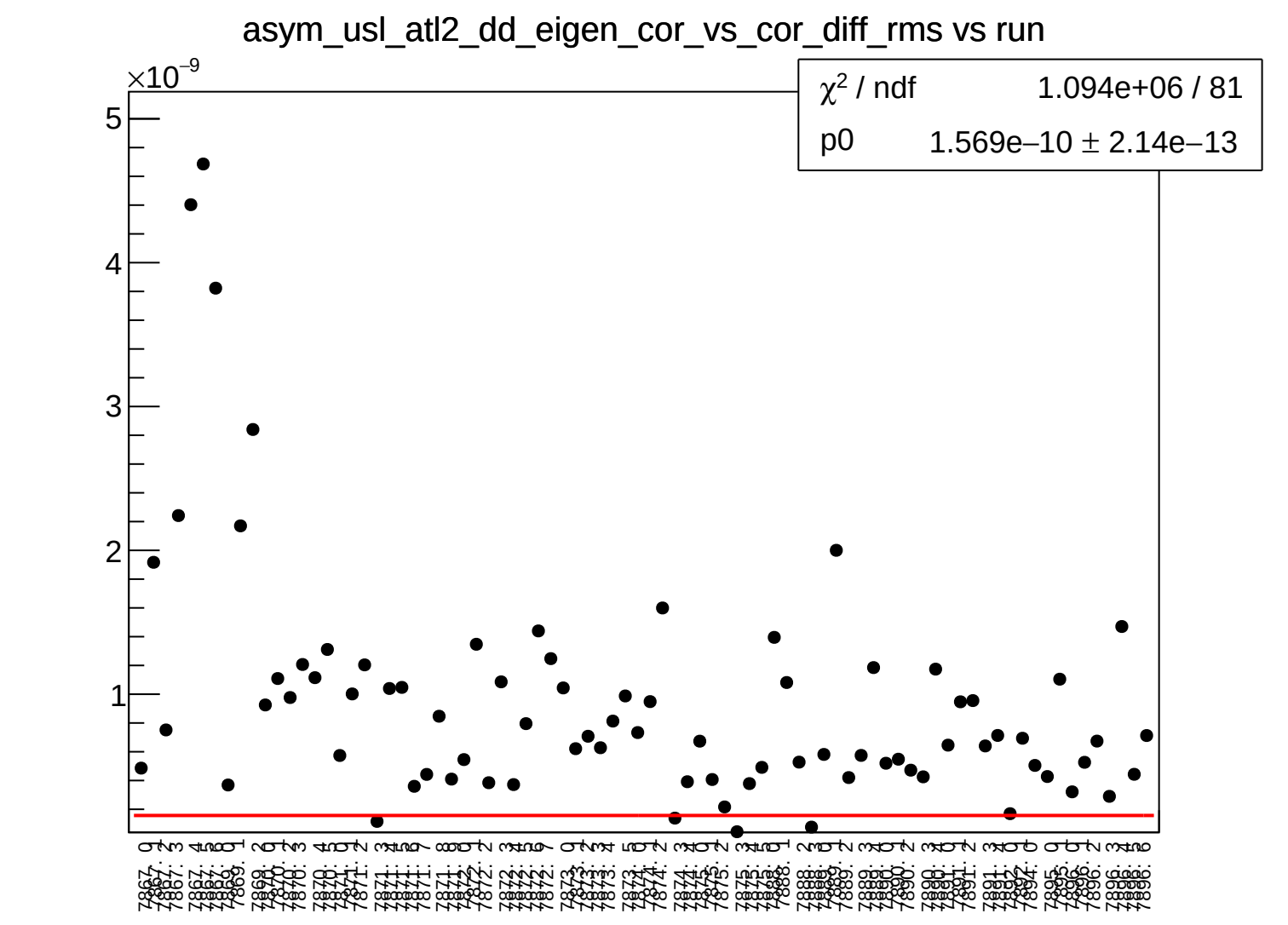

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.18 / 81
p0 0.2078 ± 0.2016
pull
Entries 82
Mean 247.1
Std Dev 0

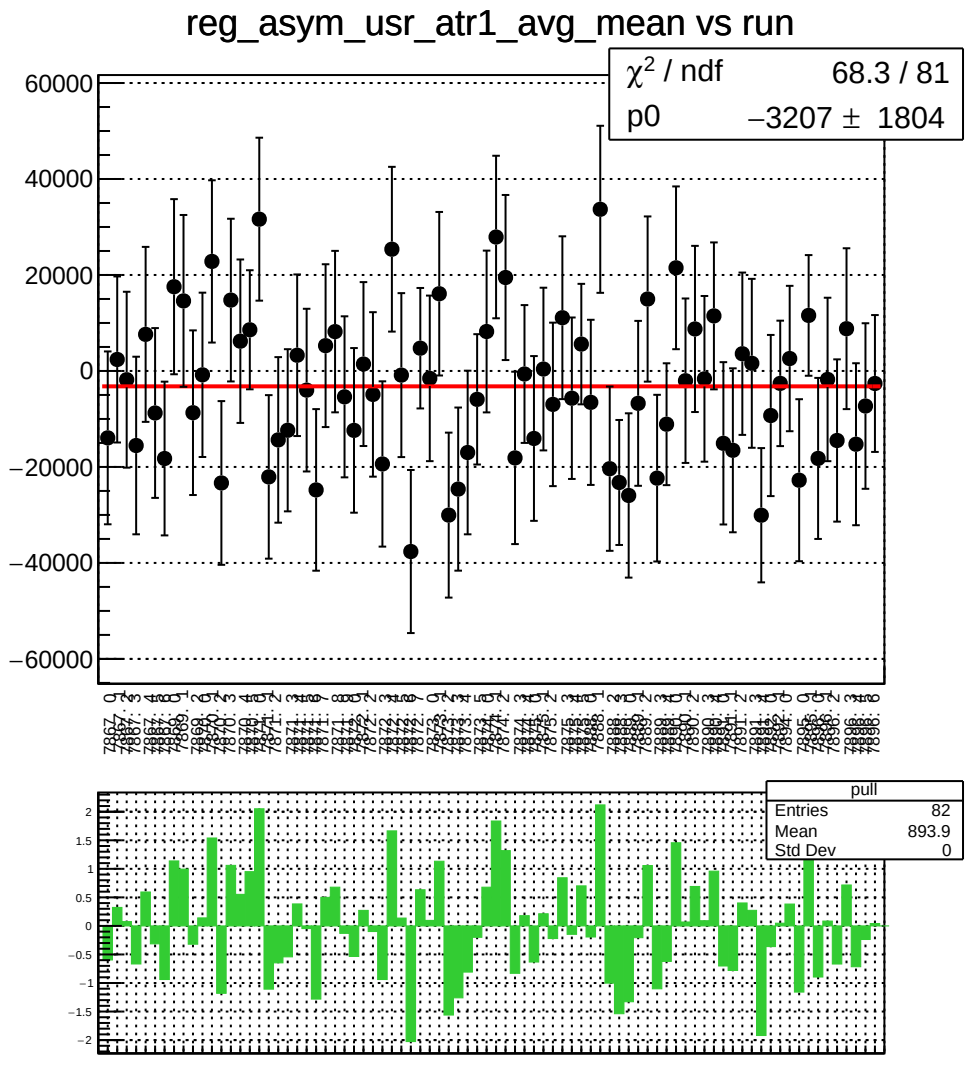

pull1D
Entries 82
Mean −0.0273
Std Dev 0.9698

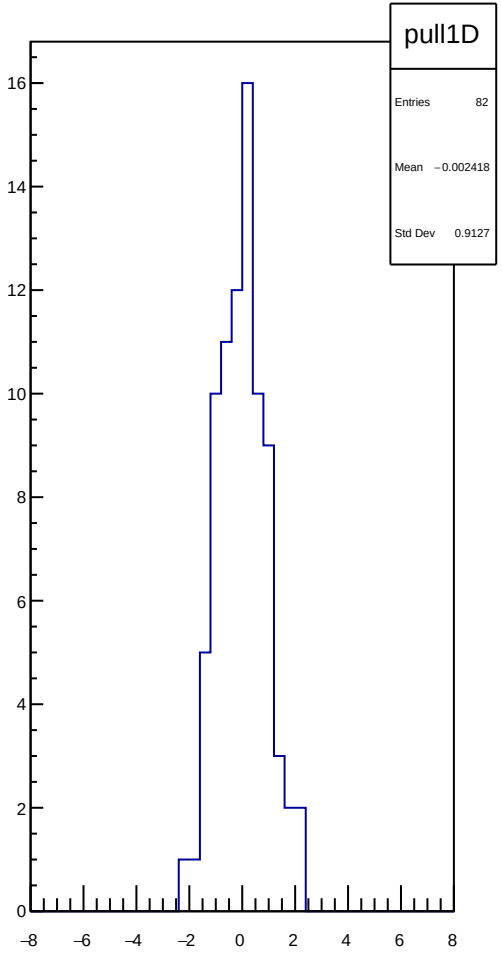

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.414e+05 / 81
p0 174 ± 0.1425
400
350
300
250
200
150
100
50

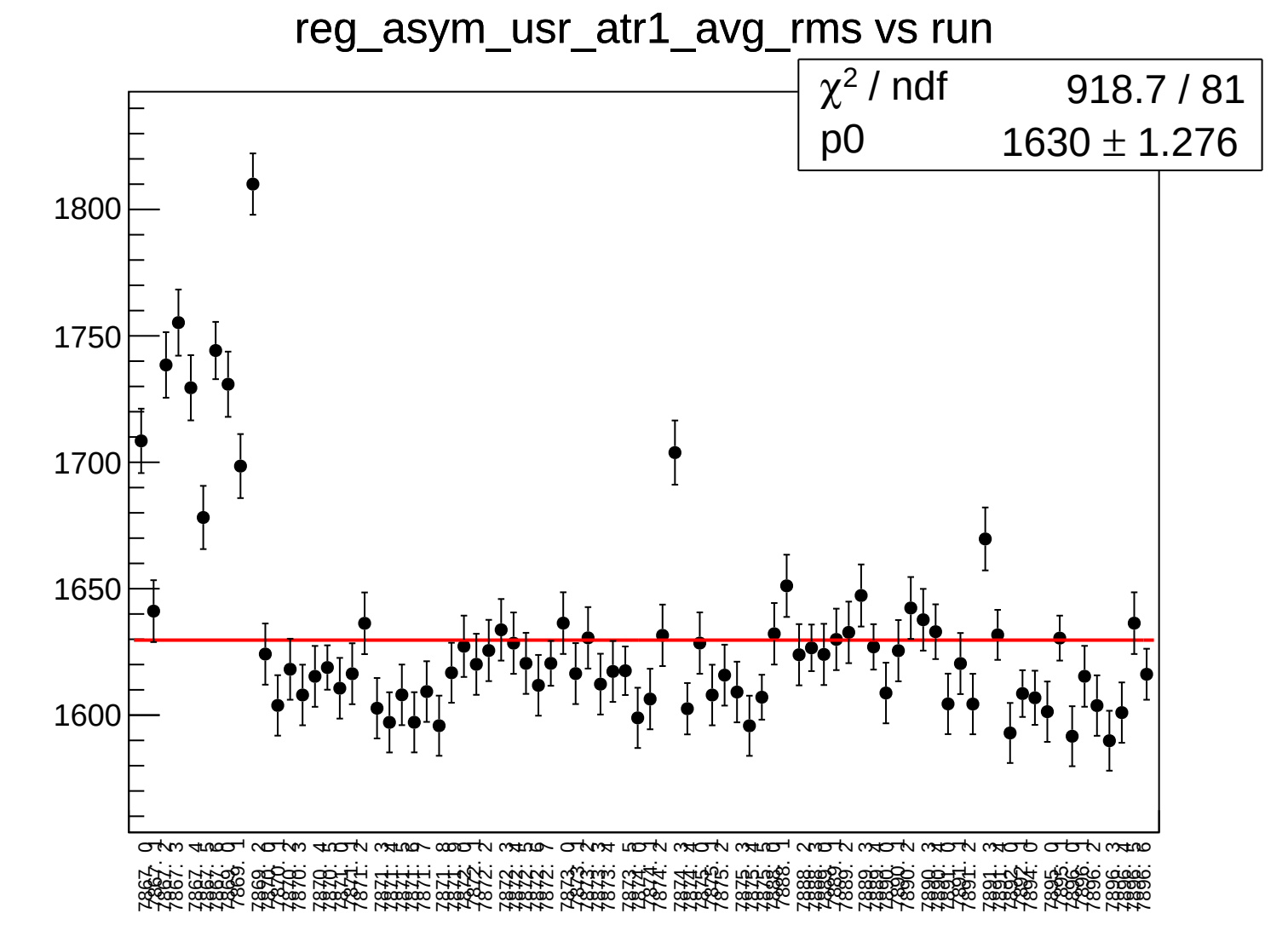

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.6 / 81
p0 −1.449e−13 ± 3.026e−13
pull
Entries 82
Mean −27.41
Std Dev 0

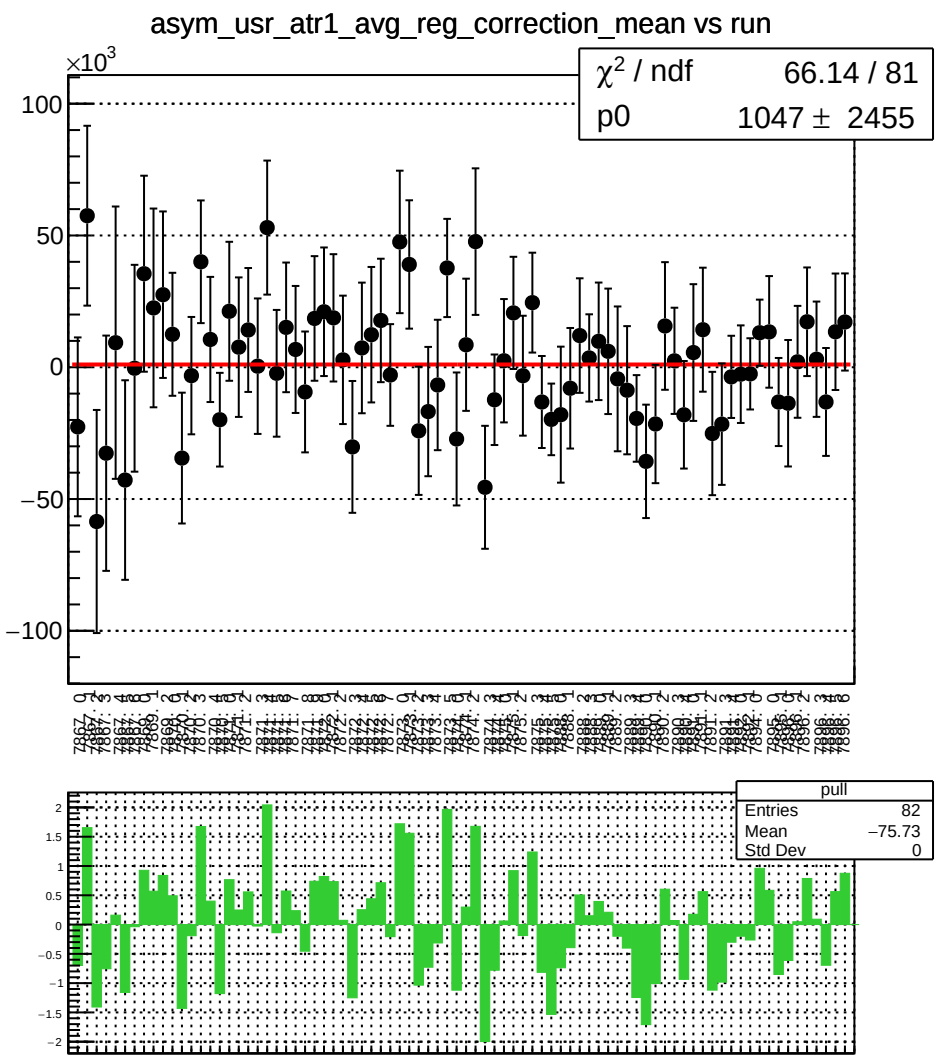

pull1D
Entries 82
Mean 0.04383
Std Dev 0.8223

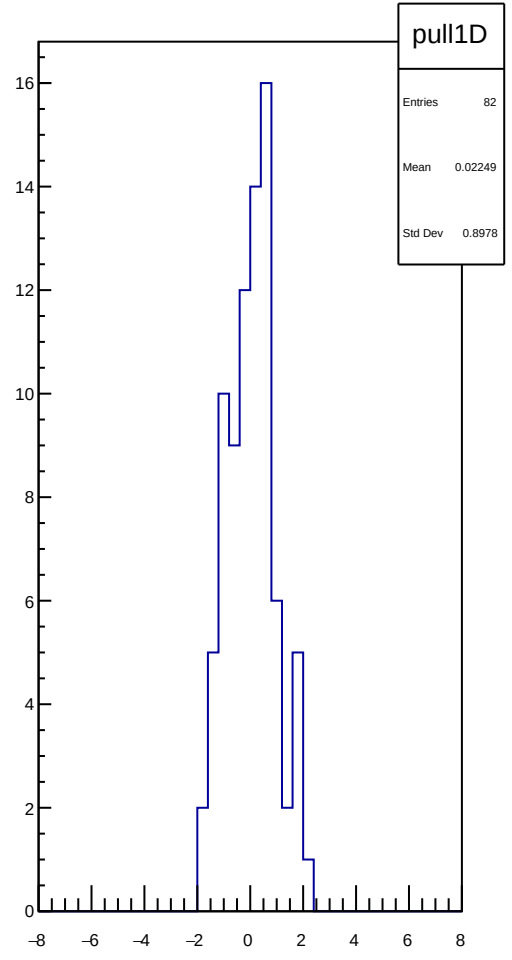

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.094e+06 / 81
p0 1.569e−10 ± 2.14e−13
5
4
3
2
1

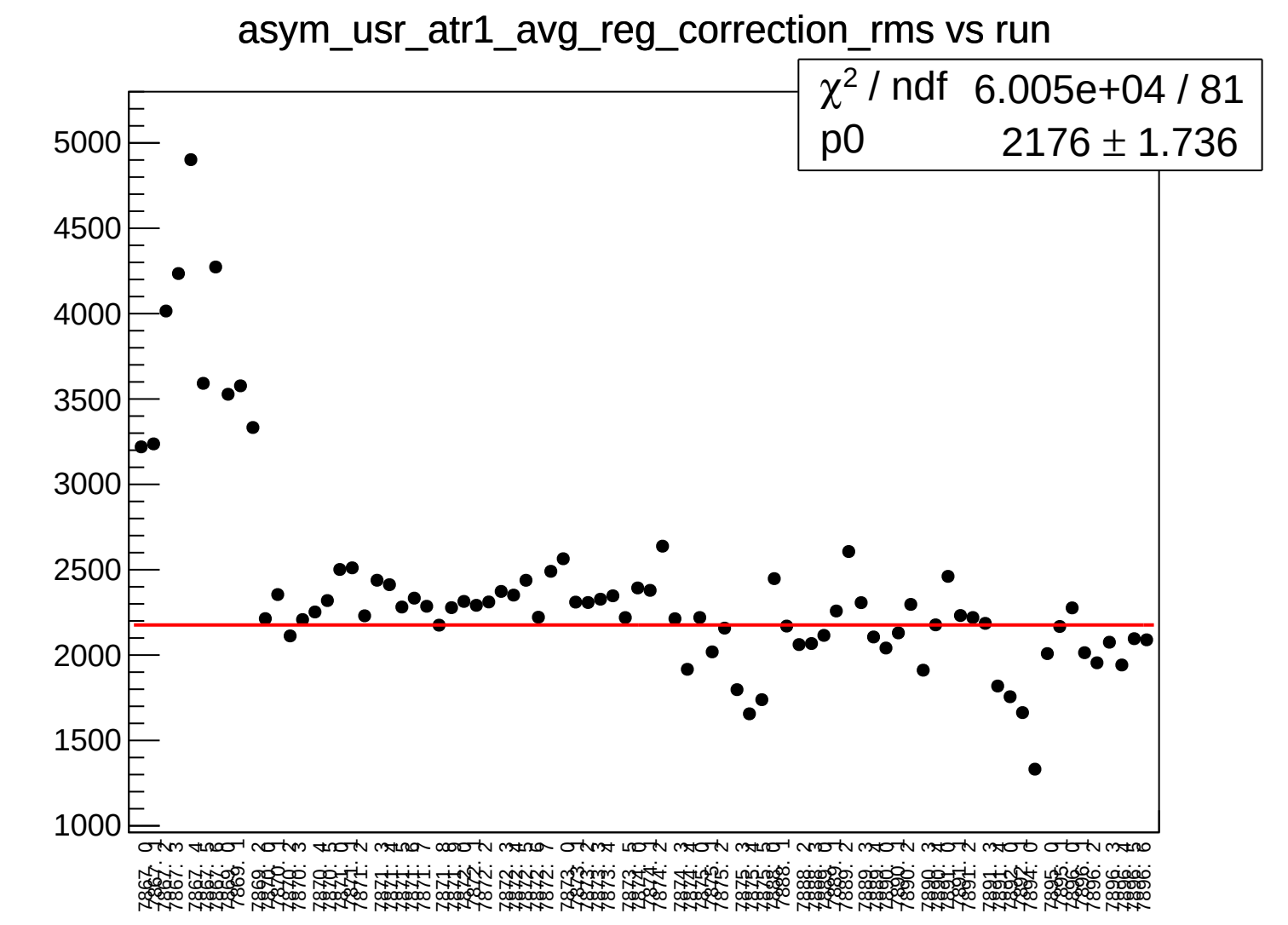

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 68.3 / 81
p0 −3207 ± 1804
pull
Entries 82
Mean 893.9
Std Dev 0

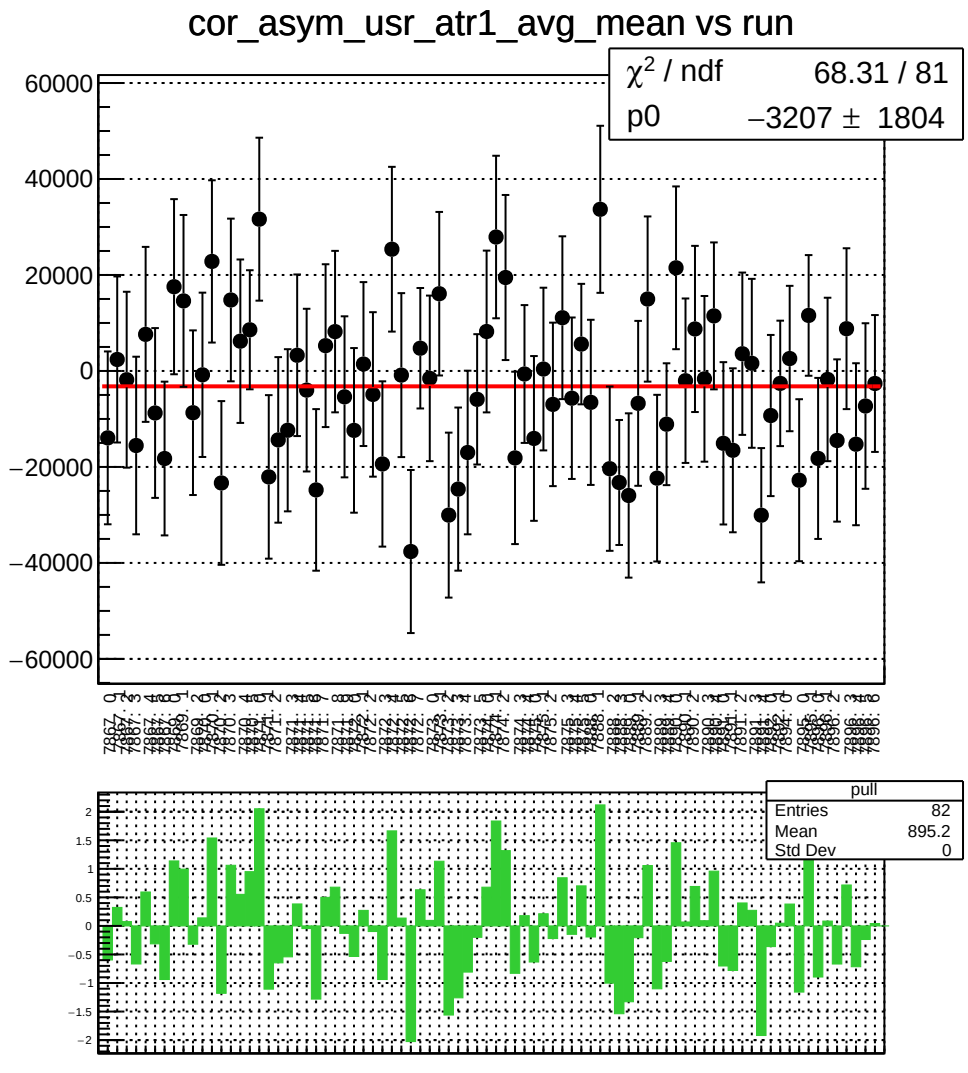

pull1D
Entries 82
Mean −0.002418
Std Dev 0.9127

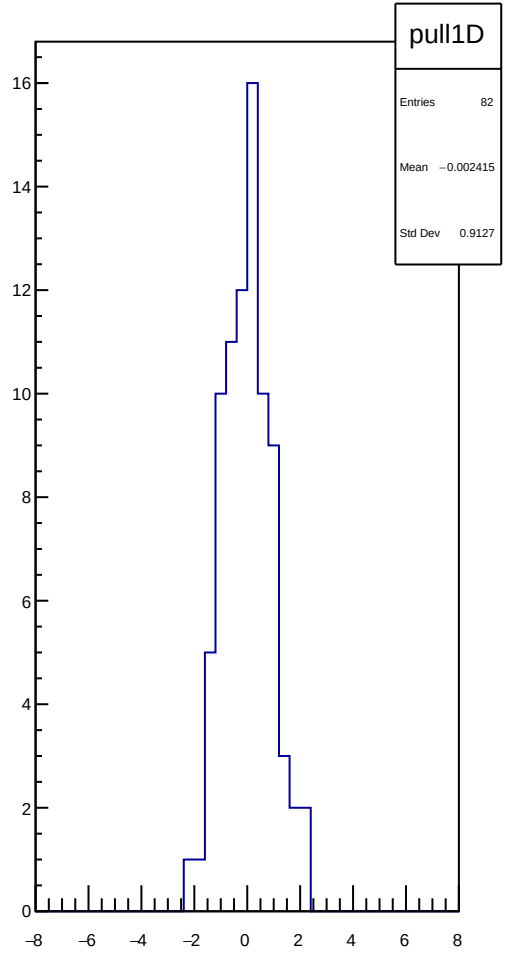

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 918.7 / 81
p0 1630 ± 1.276
1800
1750
1700
1650
1600

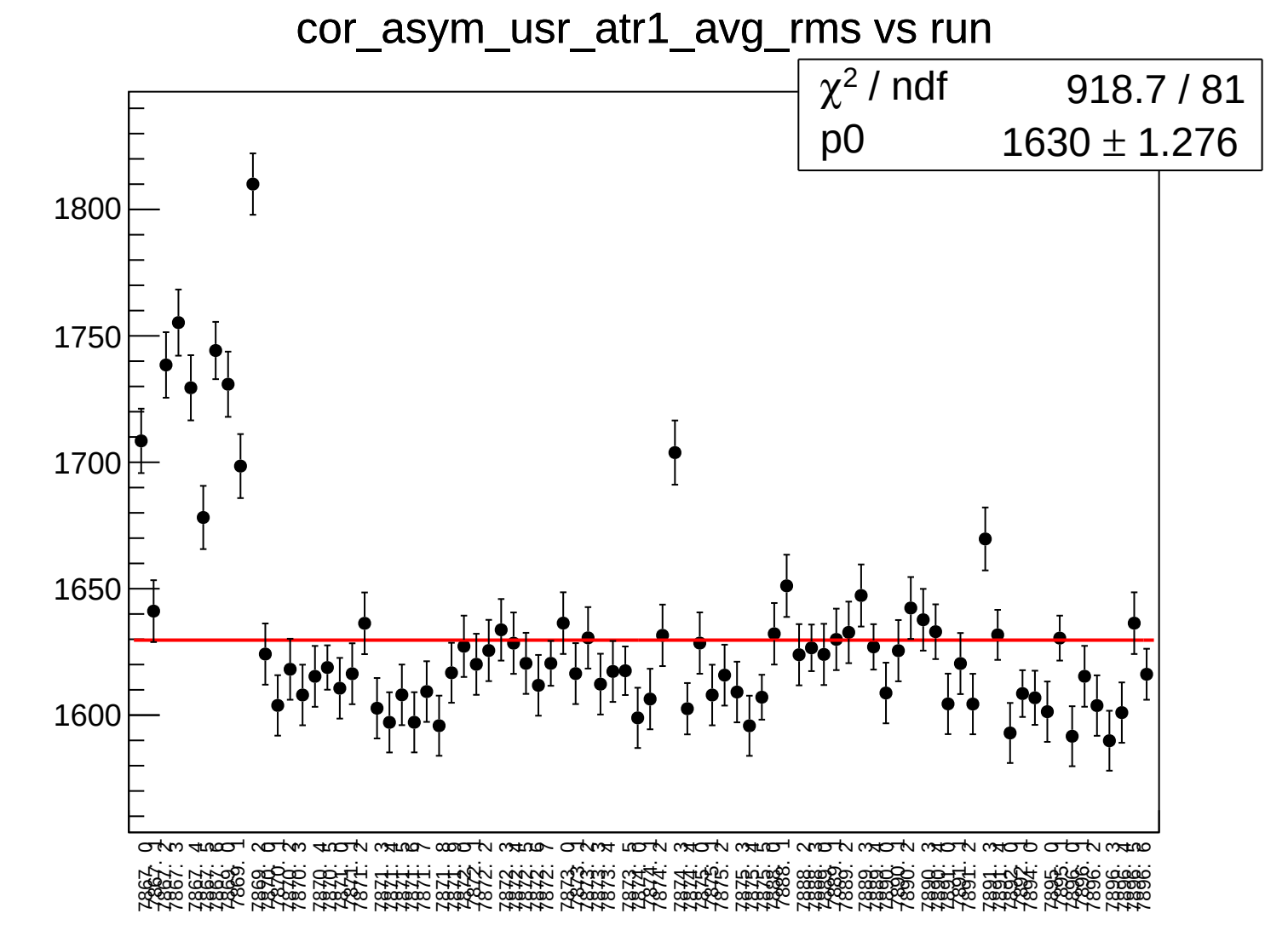

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.14 / 81
p0 1047 ± 2455
100
50
0
−50
−100
pull
Entries 82
Mean −75.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

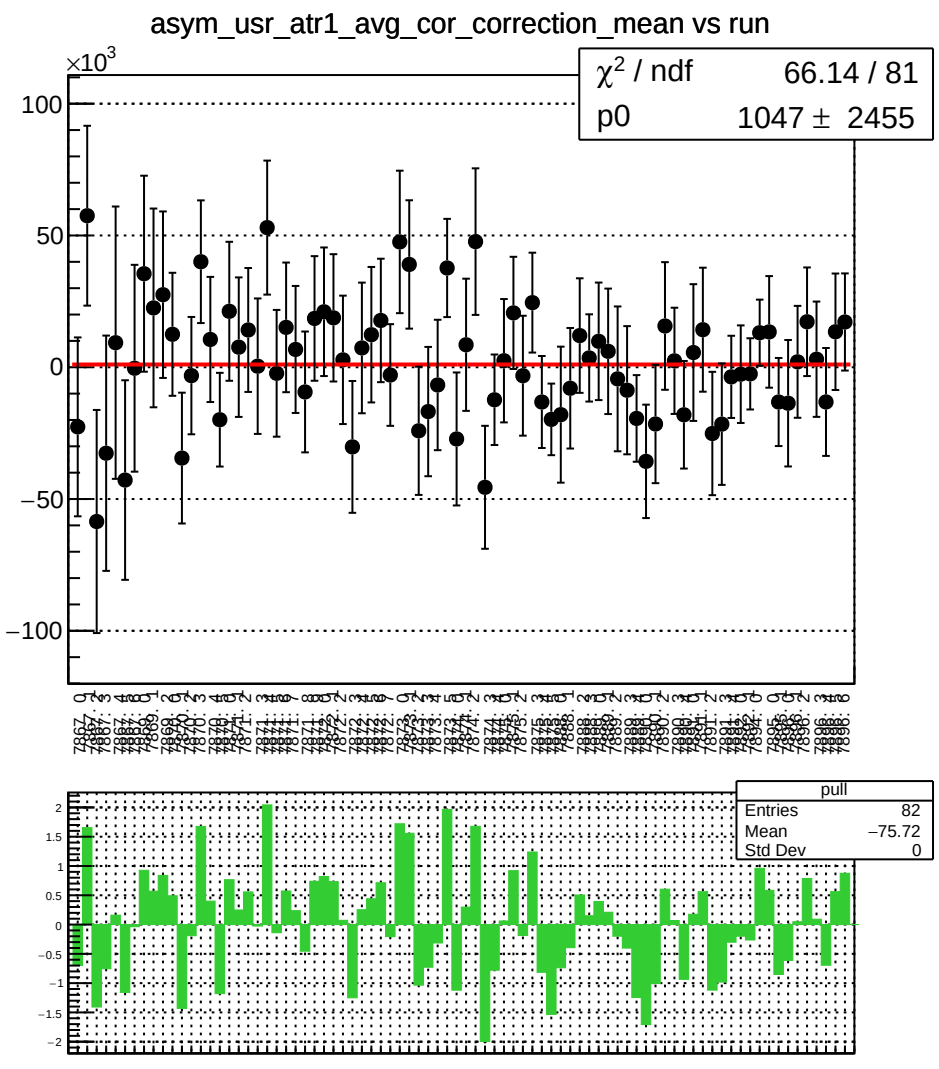

pull1D
Entries 82
Mean 0.02249
Std Dev 0.8978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

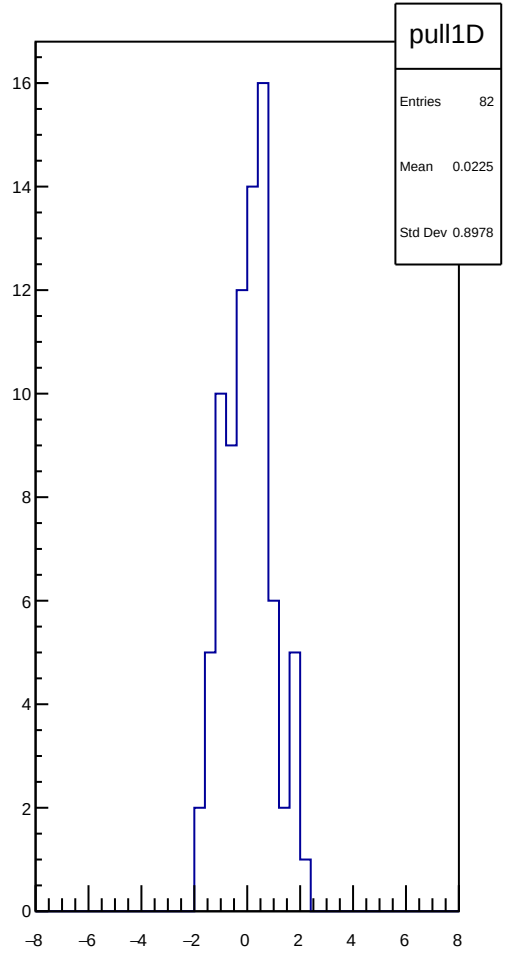

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 6.005e+04 / 81
p0 2176 ± 1.736
5000
4500
4000
3500
3000
2500
2000
1500
1000

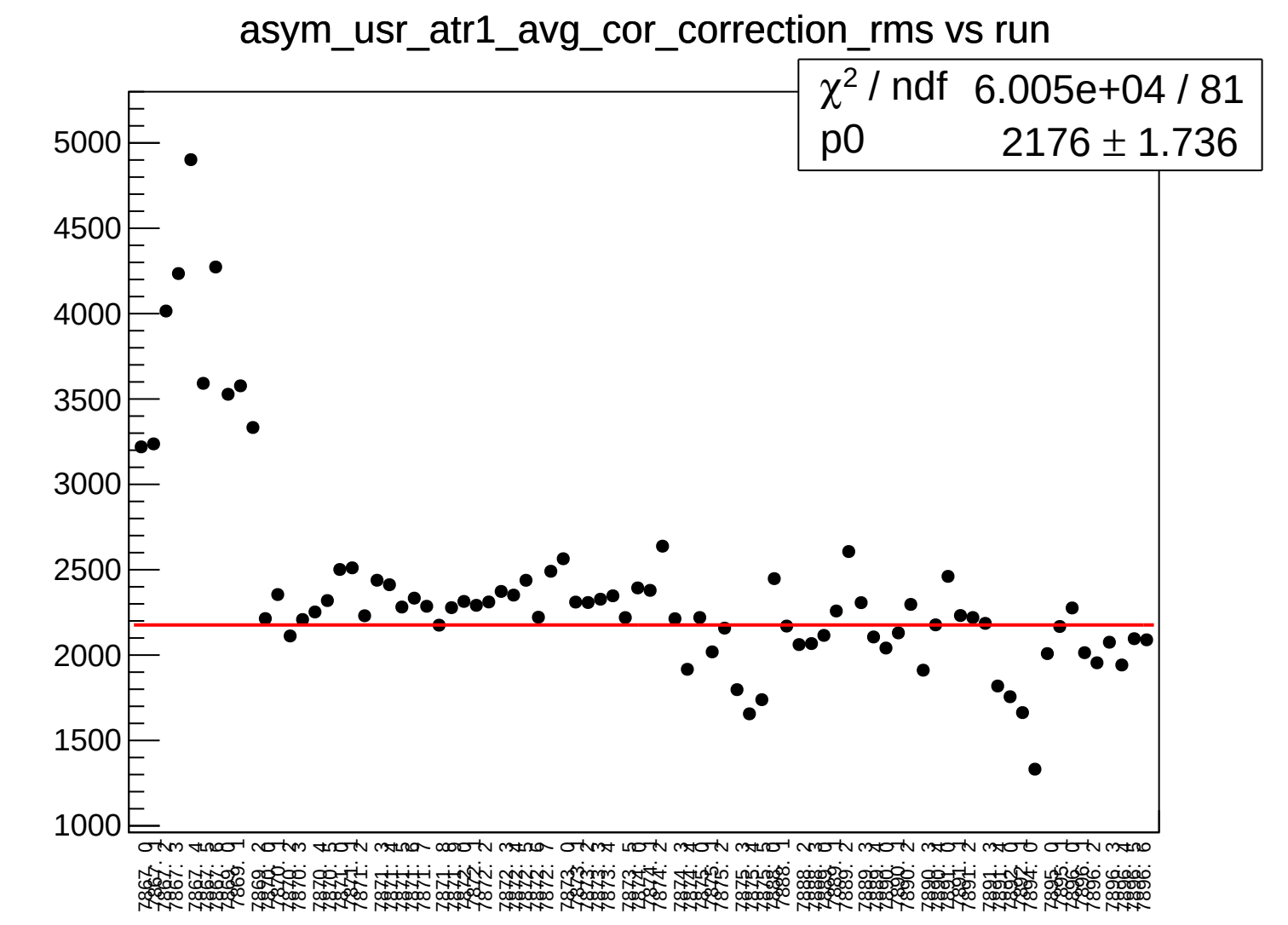

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 68.31 / 81
p0 −3207 ± 1804
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 895.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

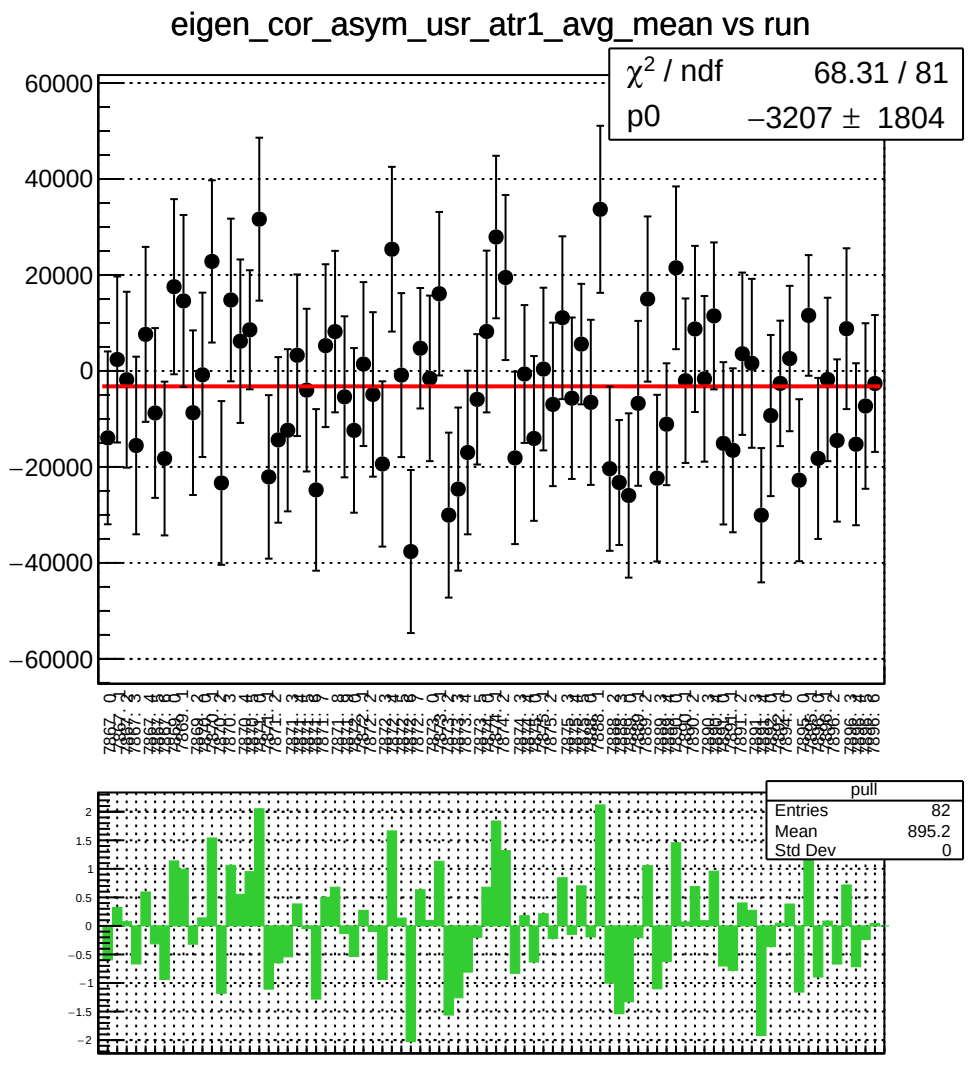

pull1D
Entries 82
Mean −0.002415
Std Dev 0.9127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

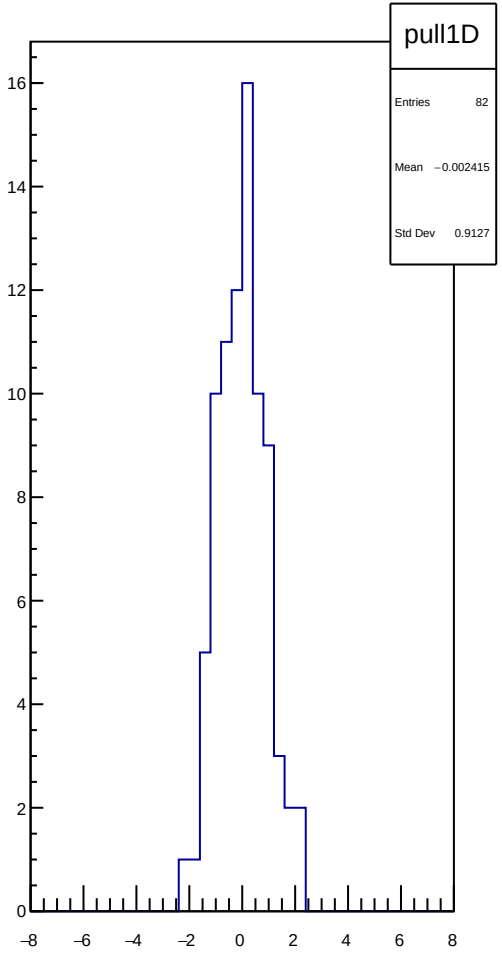

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 918.7 / 81
p0 1630 ± 1.276
1800
1750
1700
1650
1600

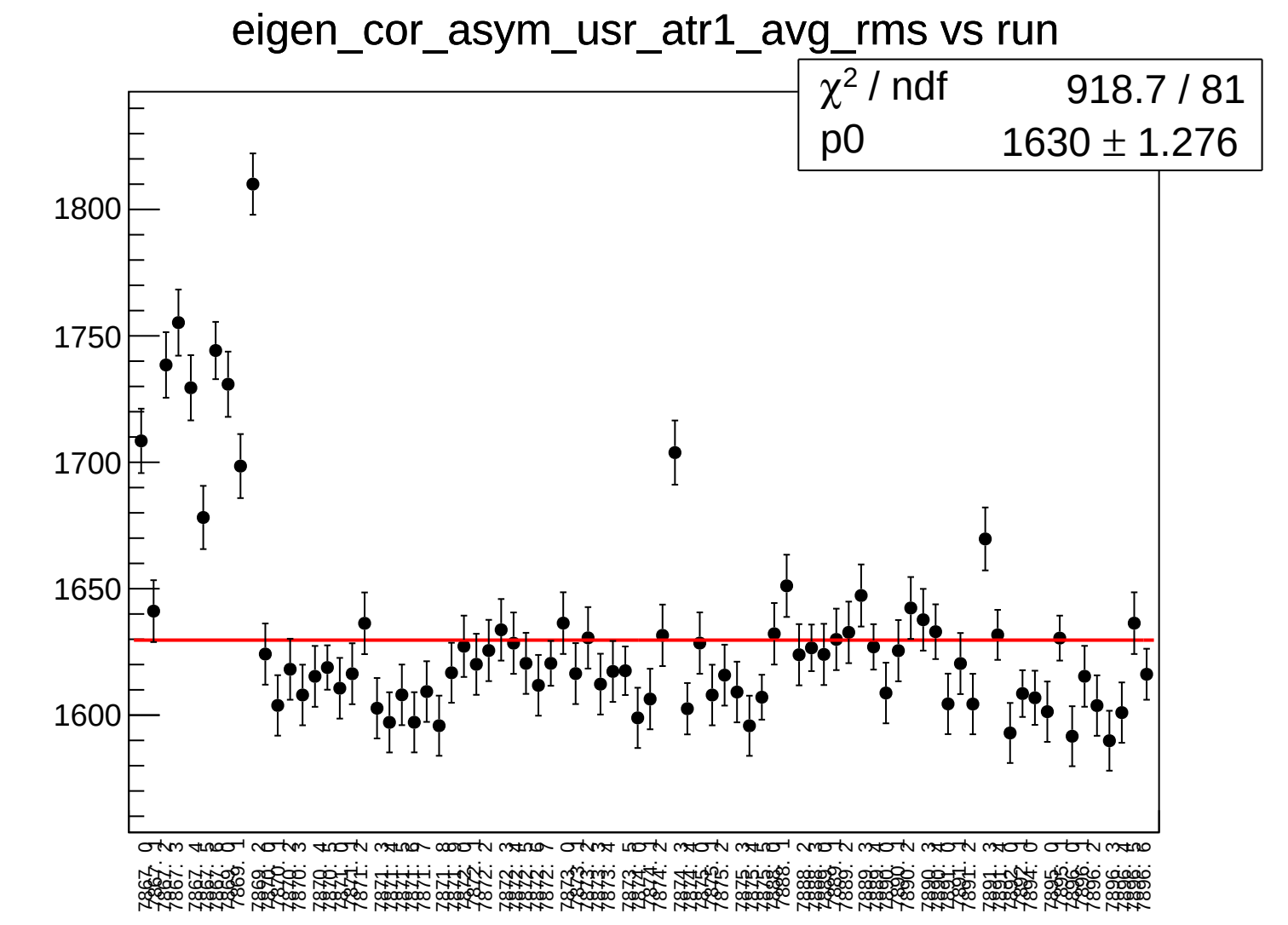

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.14 / 81
p0 1047 ± 2455
100
50
0
−50
−100
pull
Entries 82
Mean −75.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

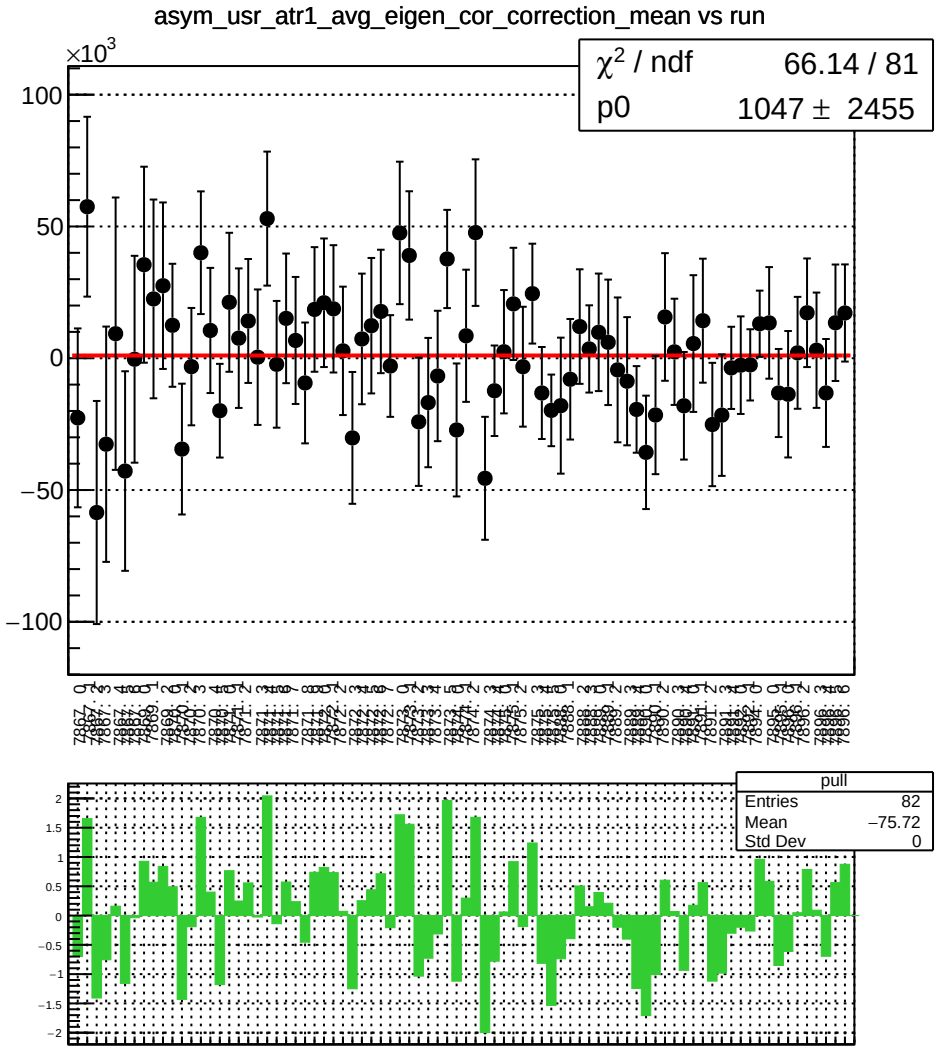

pull1D
Entries 82
Mean 0.0225
Std Dev 0.8978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

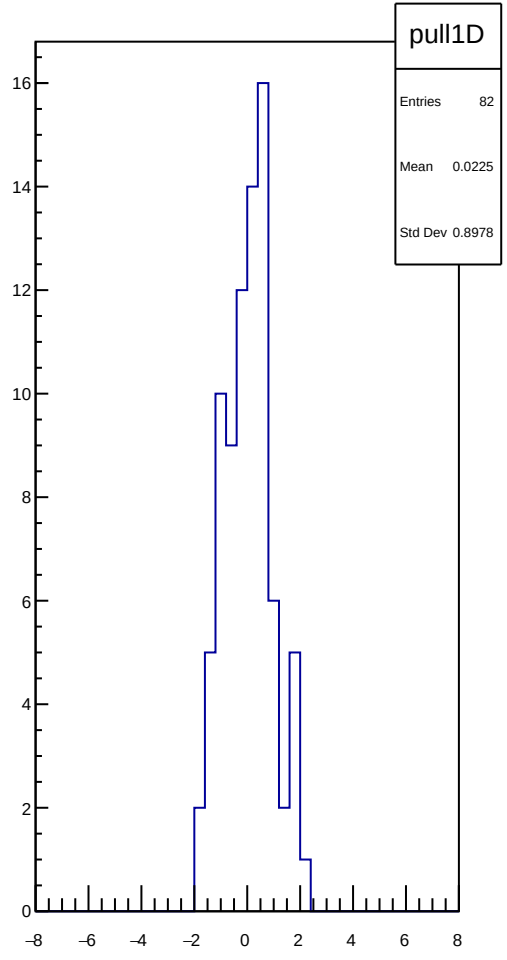

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 6.005e+04 / 81
p0 2176 ± 1.736
5000
4500
4000
3500
3000
2500
2000
1500
1000

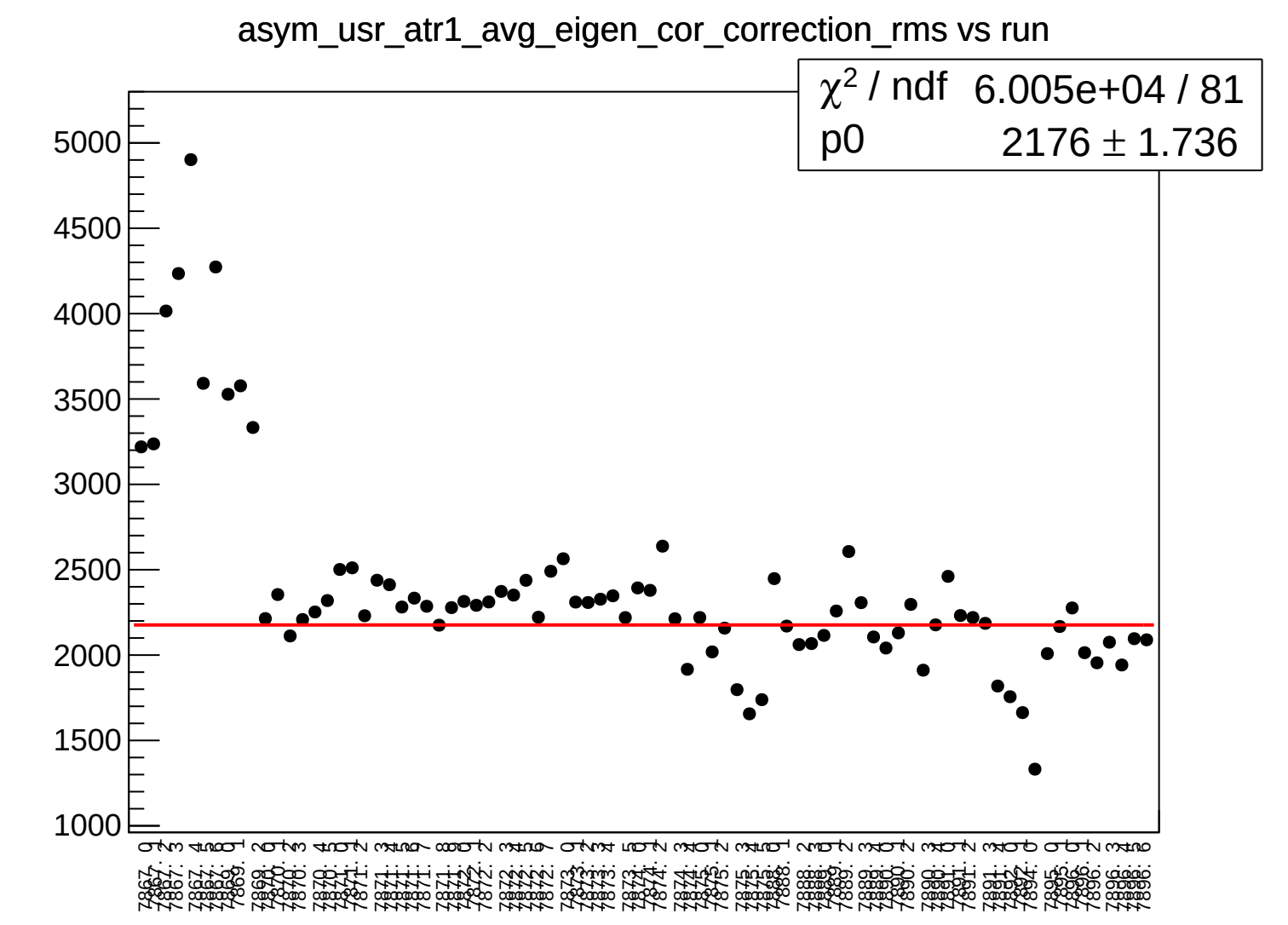

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 68.31 / 81
p0 −3207 ± 1804
pull
Entries 82
Mean 895.2
Std Dev 0

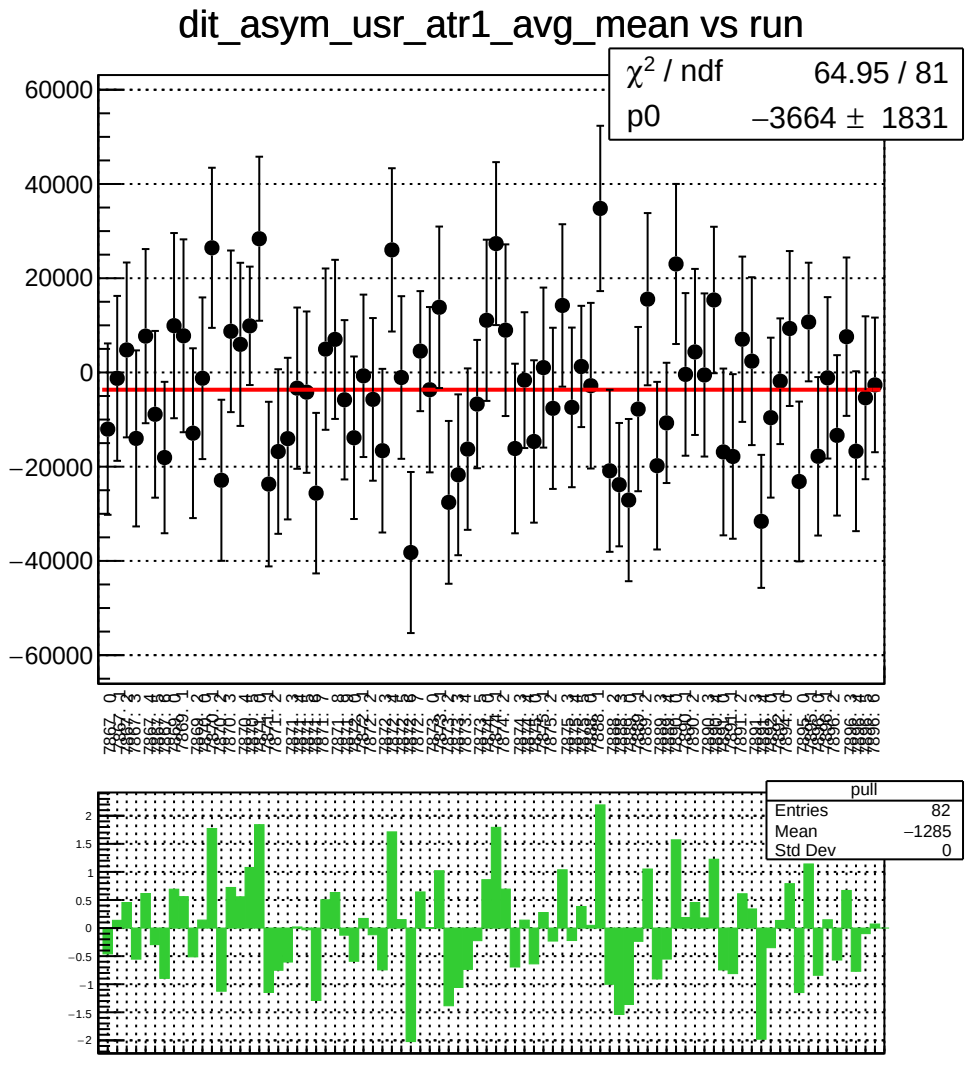

pull1D
Entries 82
Mean −0.002415
Std Dev 0.9127

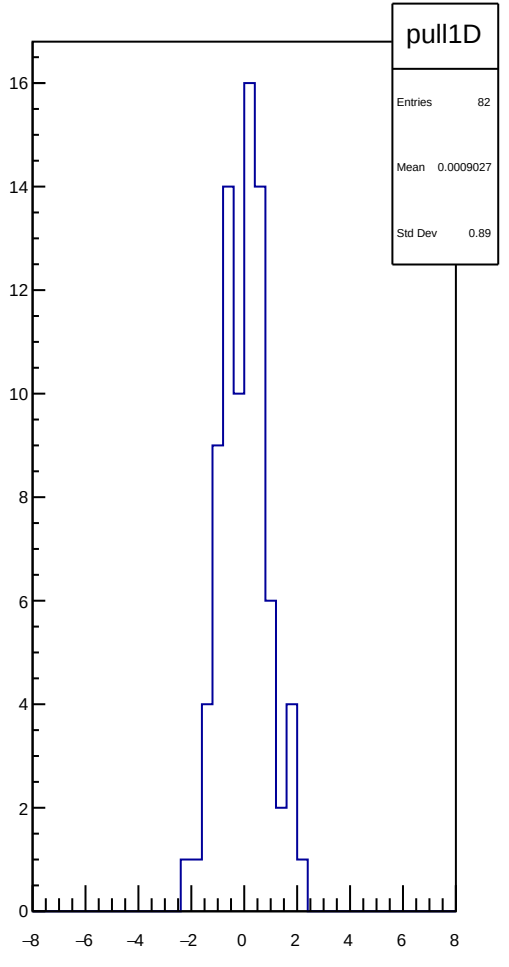

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 918.7 / 81
p0 1630 ± 1.276
1800
1750
1700
1650
1600


asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.14 / 81
p0 1047 ± 2455
100
50
0
−50
−100
pull
Entries 82
Mean −75.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.0225
Std Dev 0.8978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.005e+04 / 81
p0 2176 ± 1.736
5000
4500
4000
3500
3000
2500
2000
1500
1000


dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 64.95 / 81
p0 −3664 ± 1831
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1285
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.0009027
Std Dev 0.89
16
14
12
10
8
6
4
2
0
−8
−6
−4
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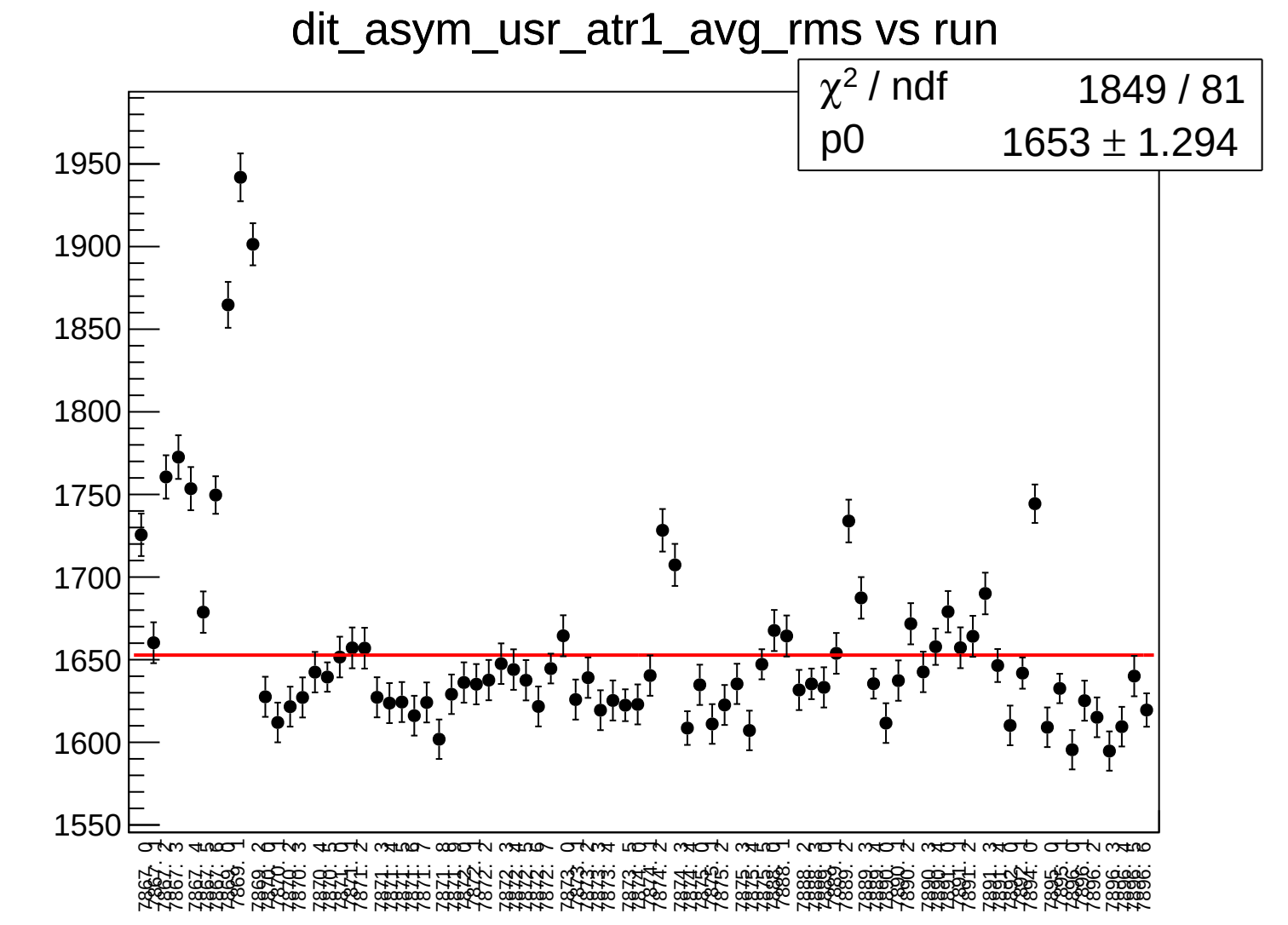
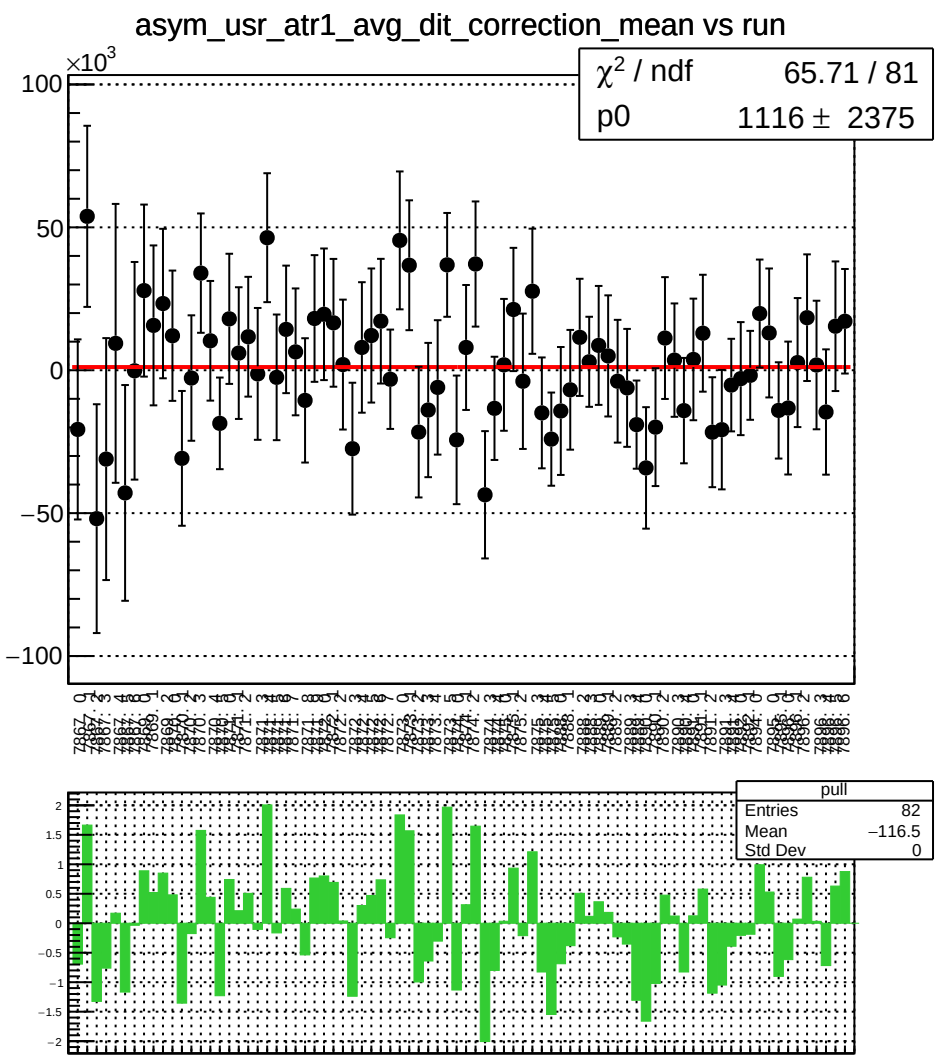
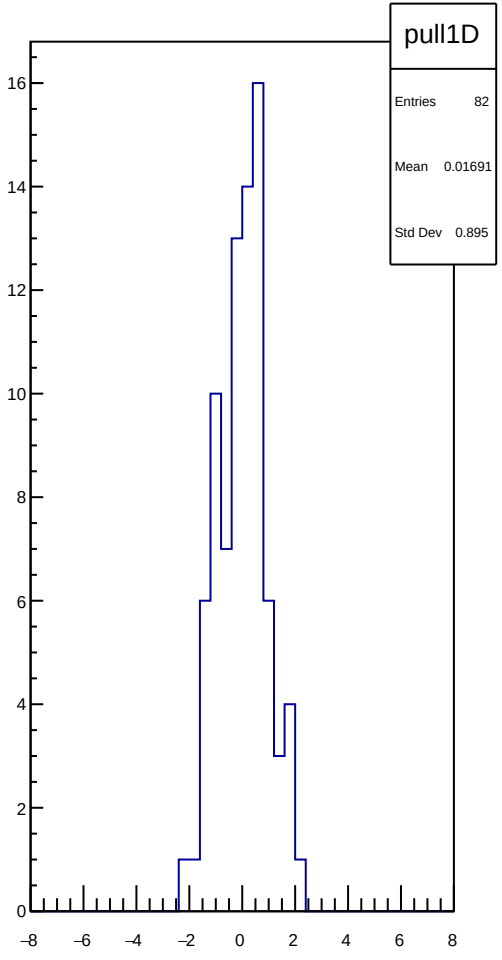
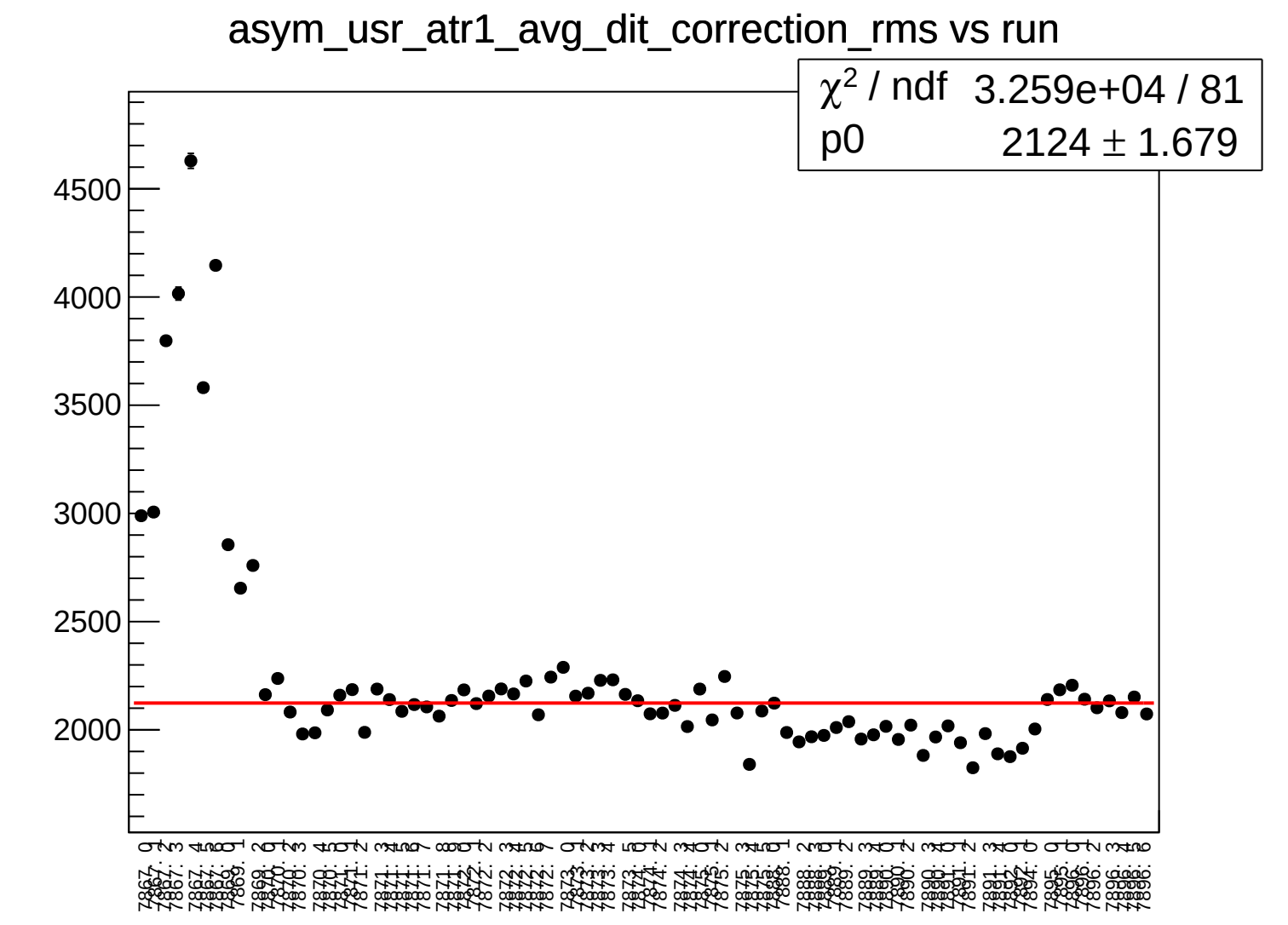
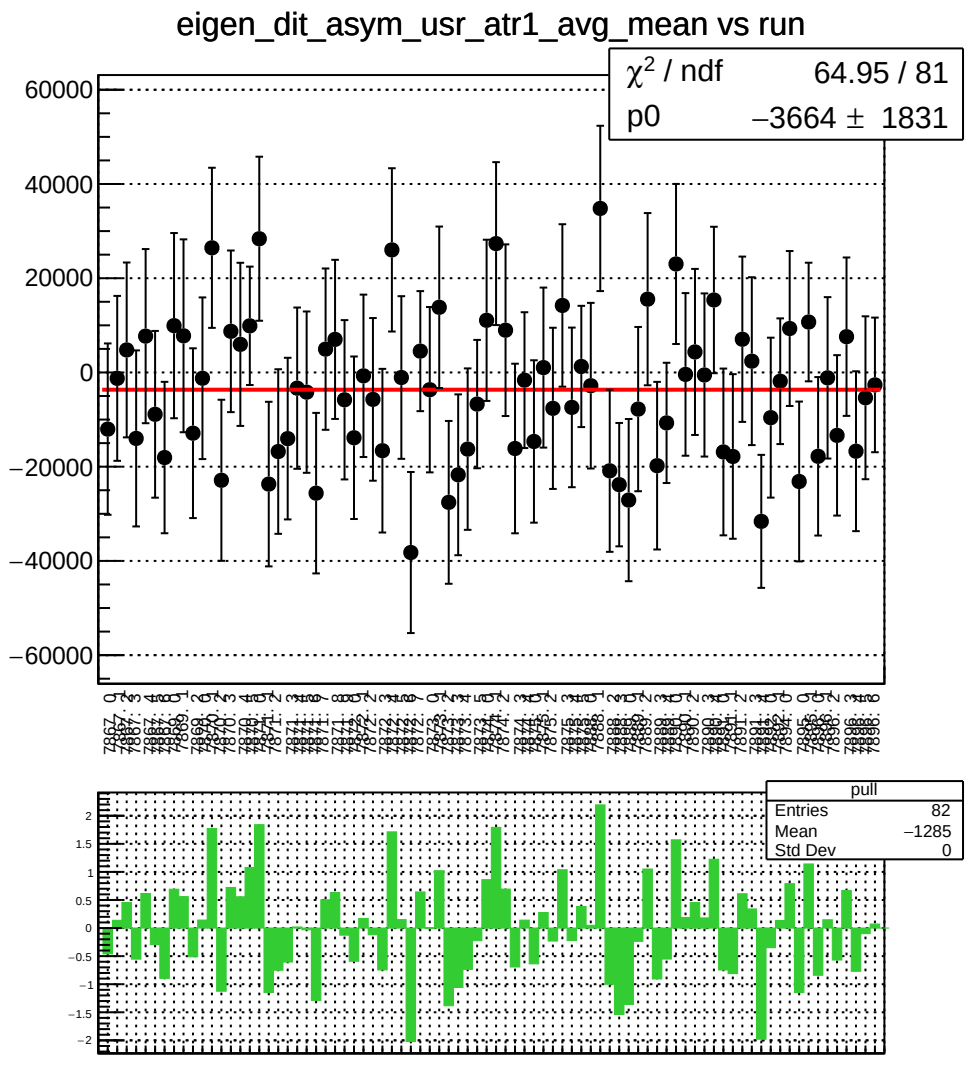
0
2
4
6
8

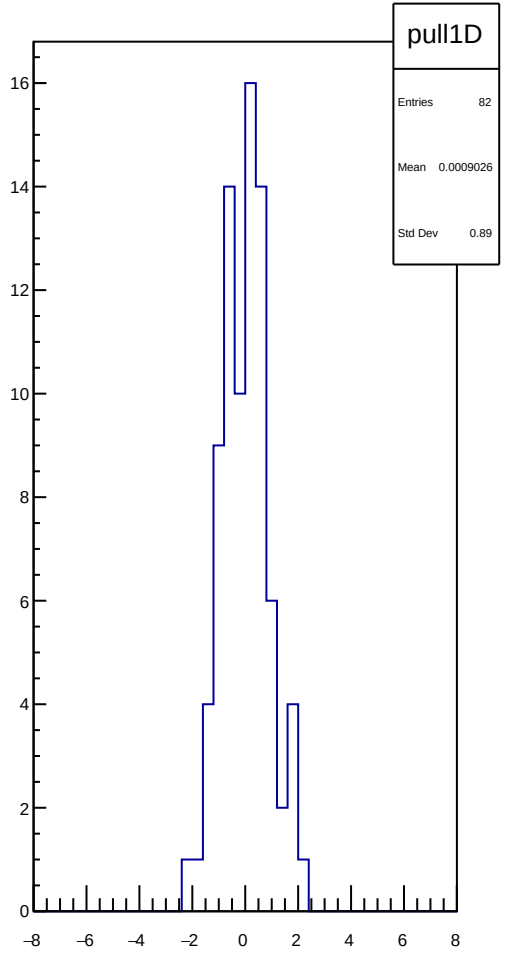

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1849 / 81
p0 1653 ± 1.294
1950
1900
1850
1800
1750
1700
1650
1600
1550

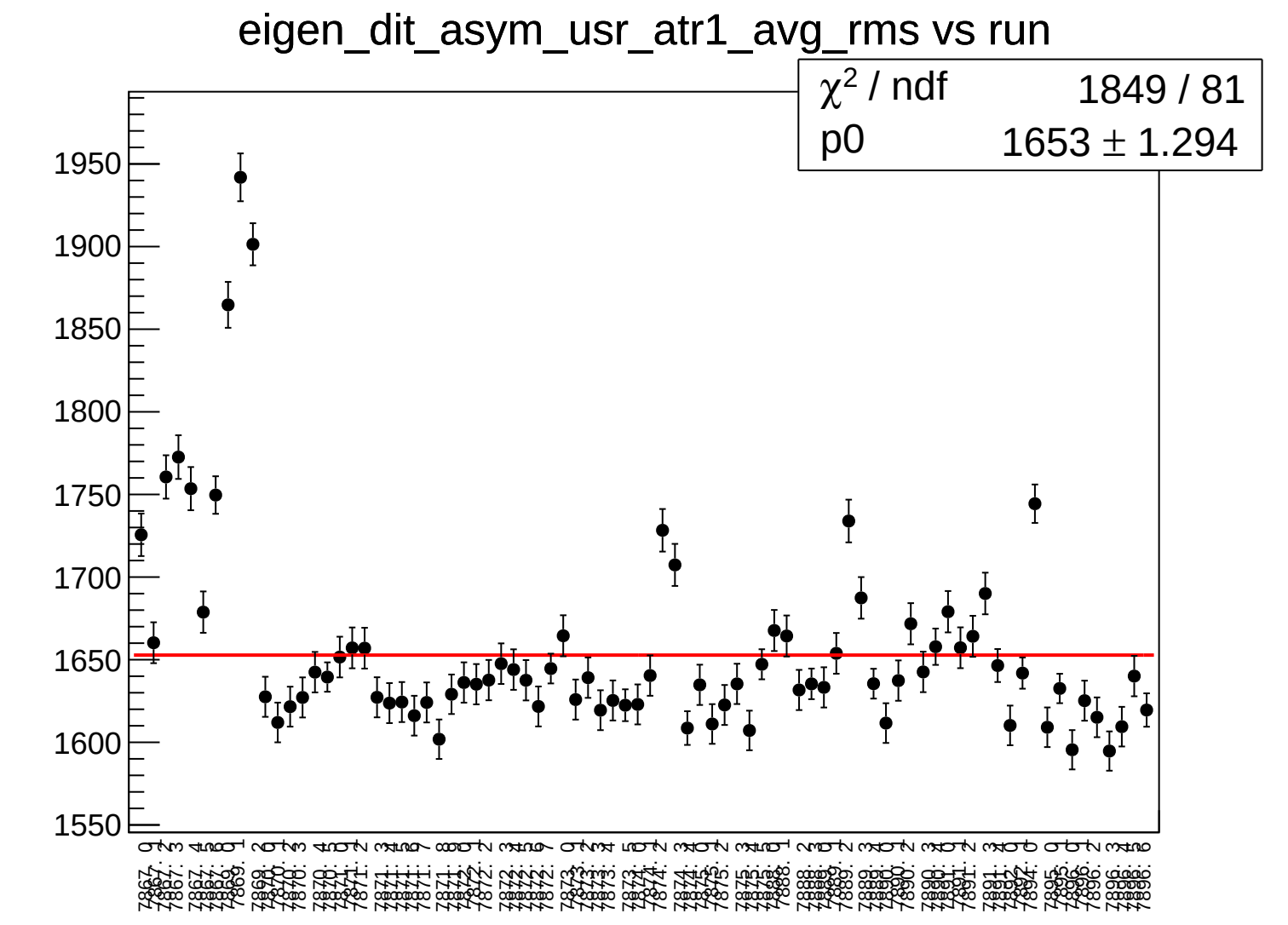

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.71 / 81
p0 1116 ± 2375
pull
Entries 82
Mean −116.5
Std Dev 0

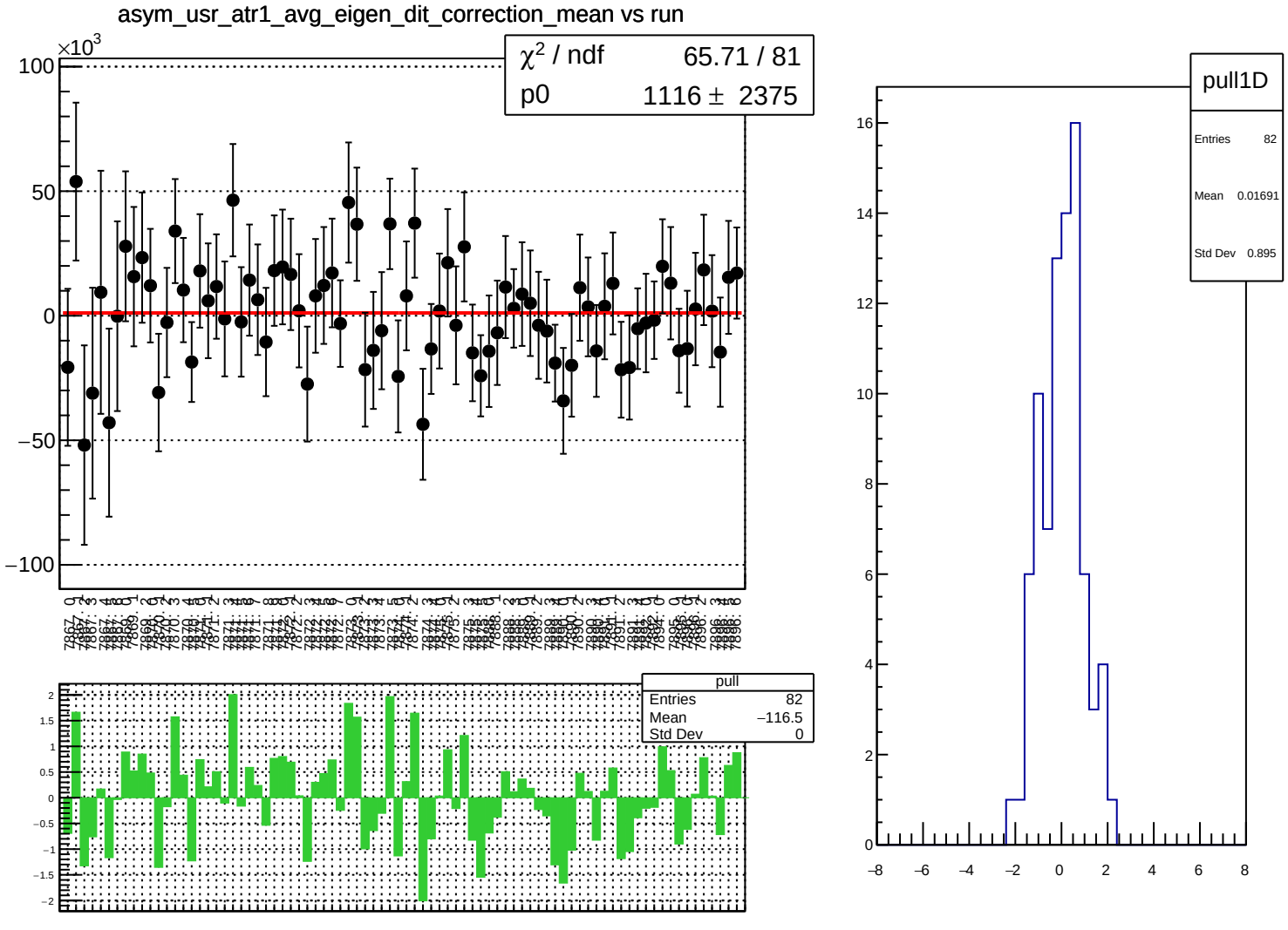

pull1D
Entries 82
Mean 0.01691
Std Dev 0.895

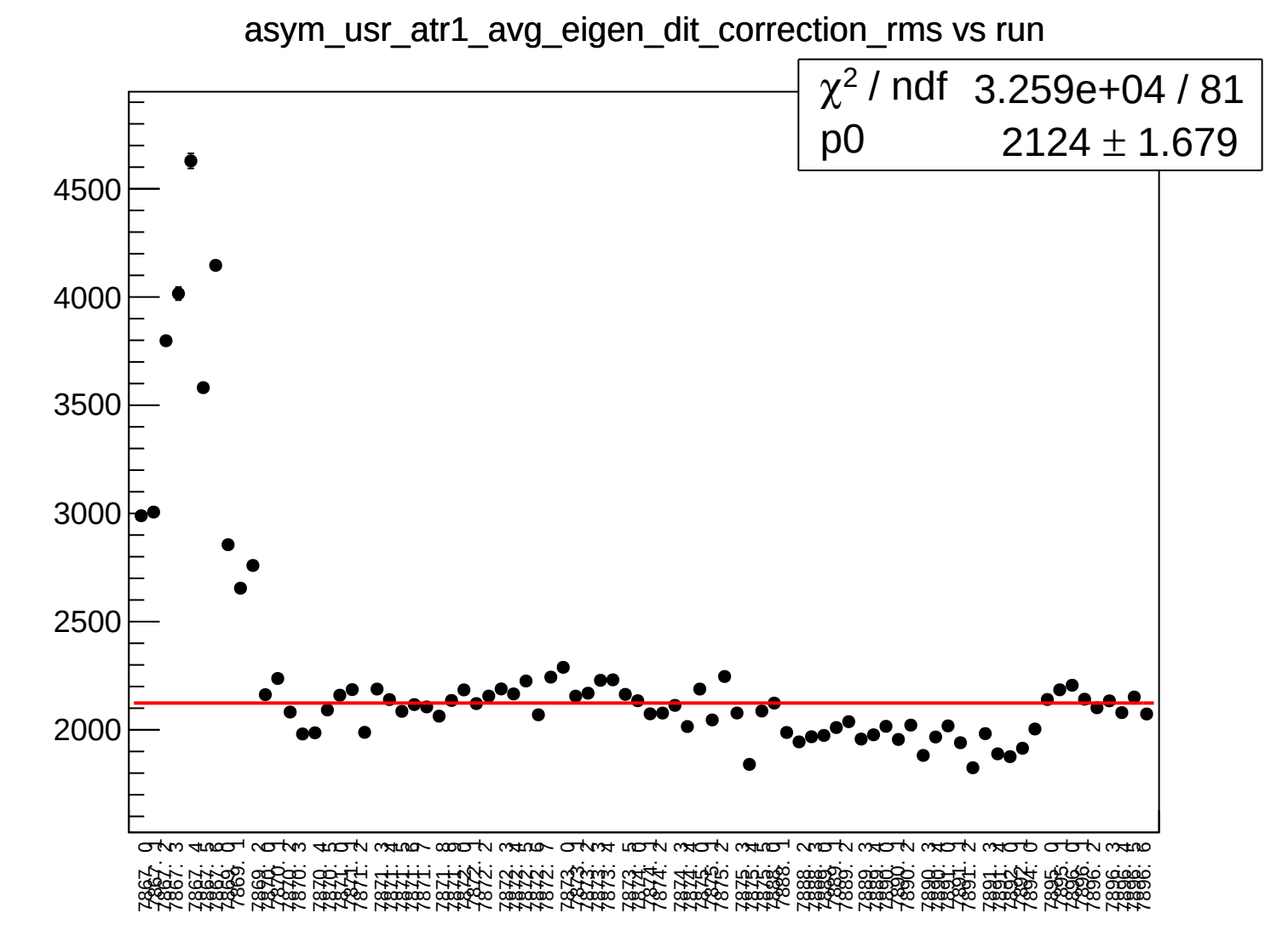

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 3.259e+04 / 81
p0 2124 ± 1.679
4500
4000
3500
3000
2500
2000

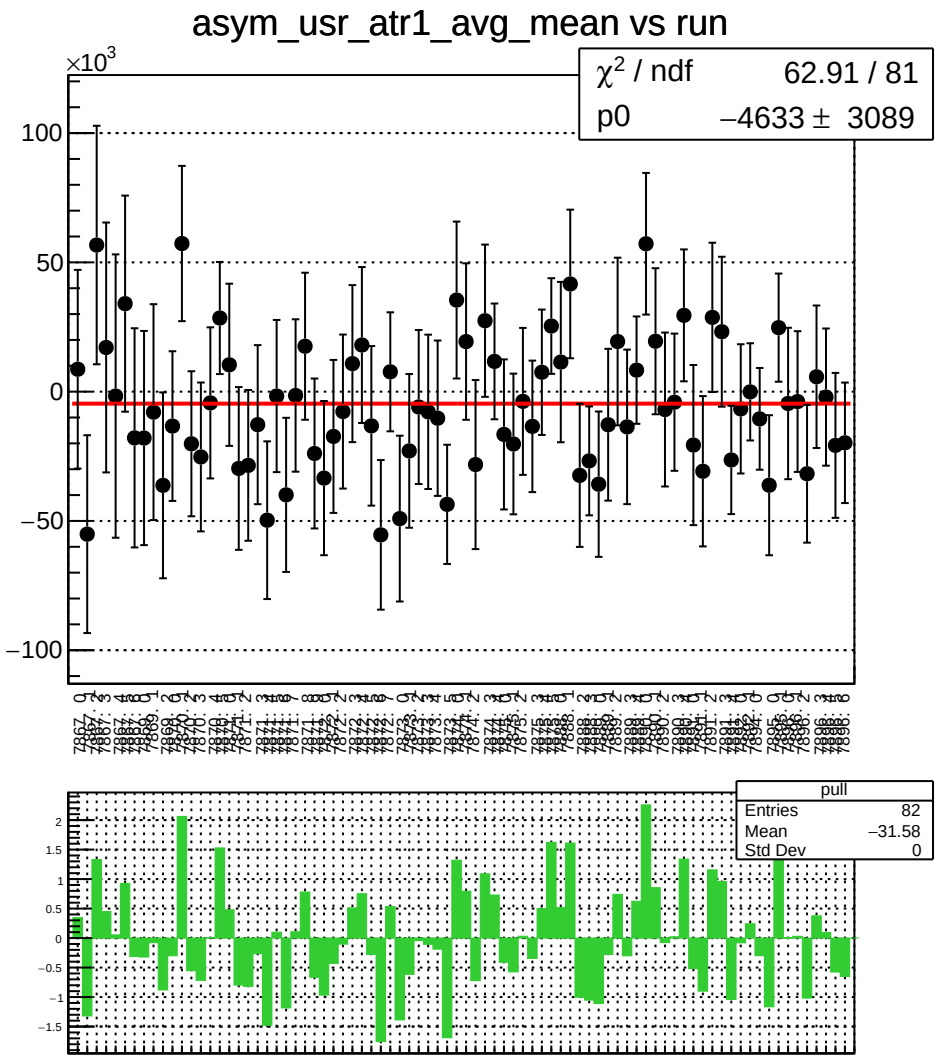

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 64.95 / 81
p0 −3664 ± 1831
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1285
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

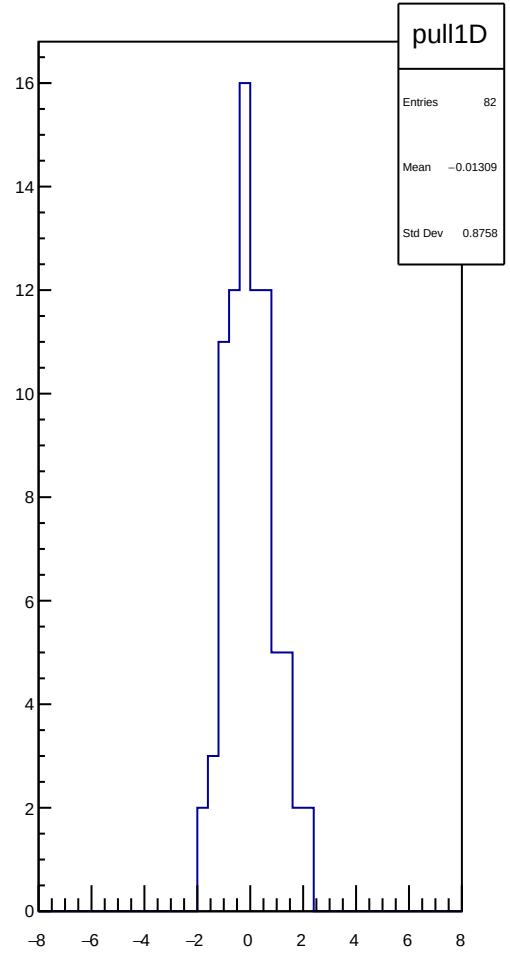

pull1D
Entries 82
Mean 0.0009026
Std Dev 0.89
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

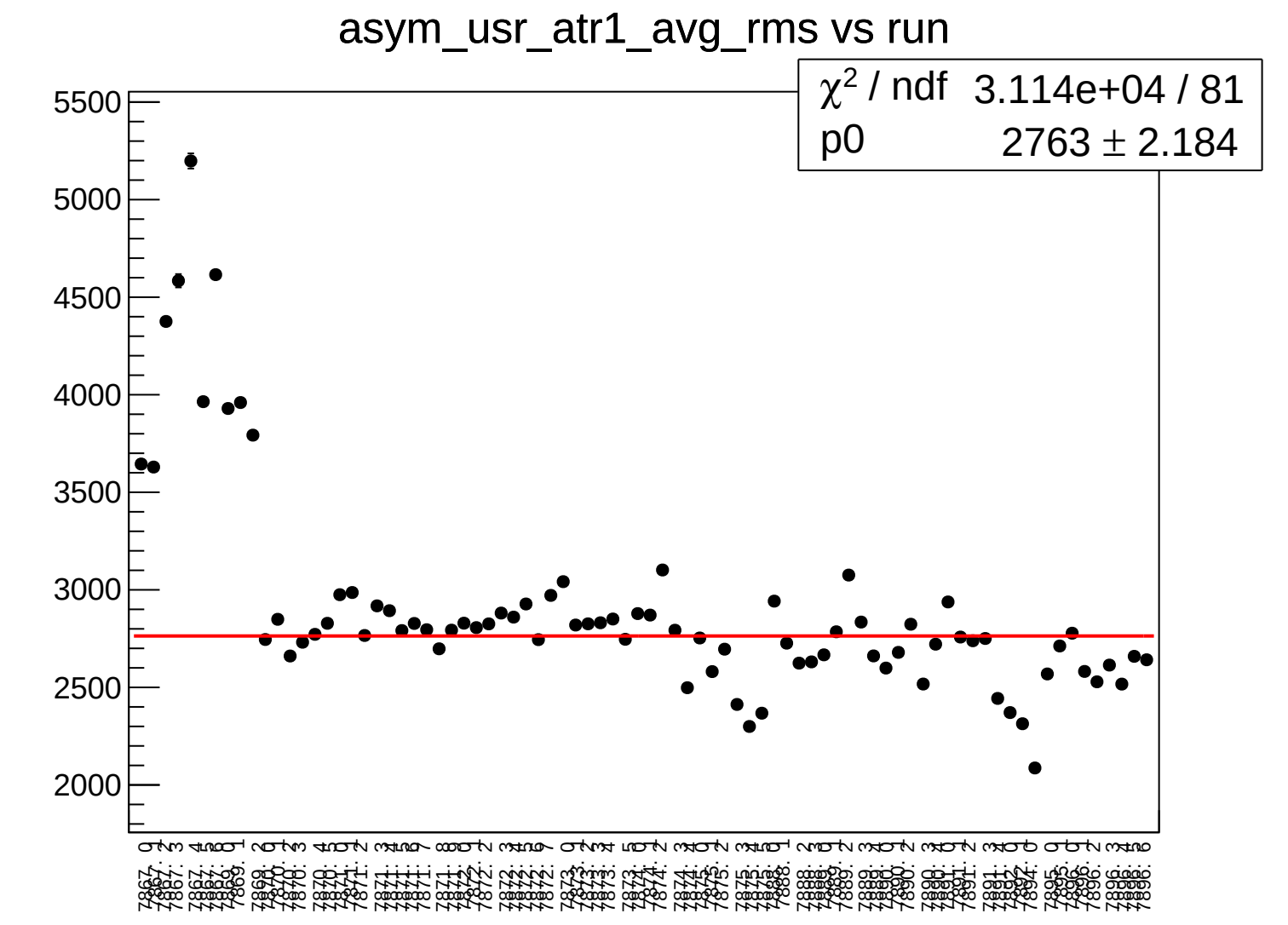

eigen_dit_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 1849 / 81
p0 1653 ± 1.294
1950
1900
1850
1800
1750
1700
1650
1600
1550

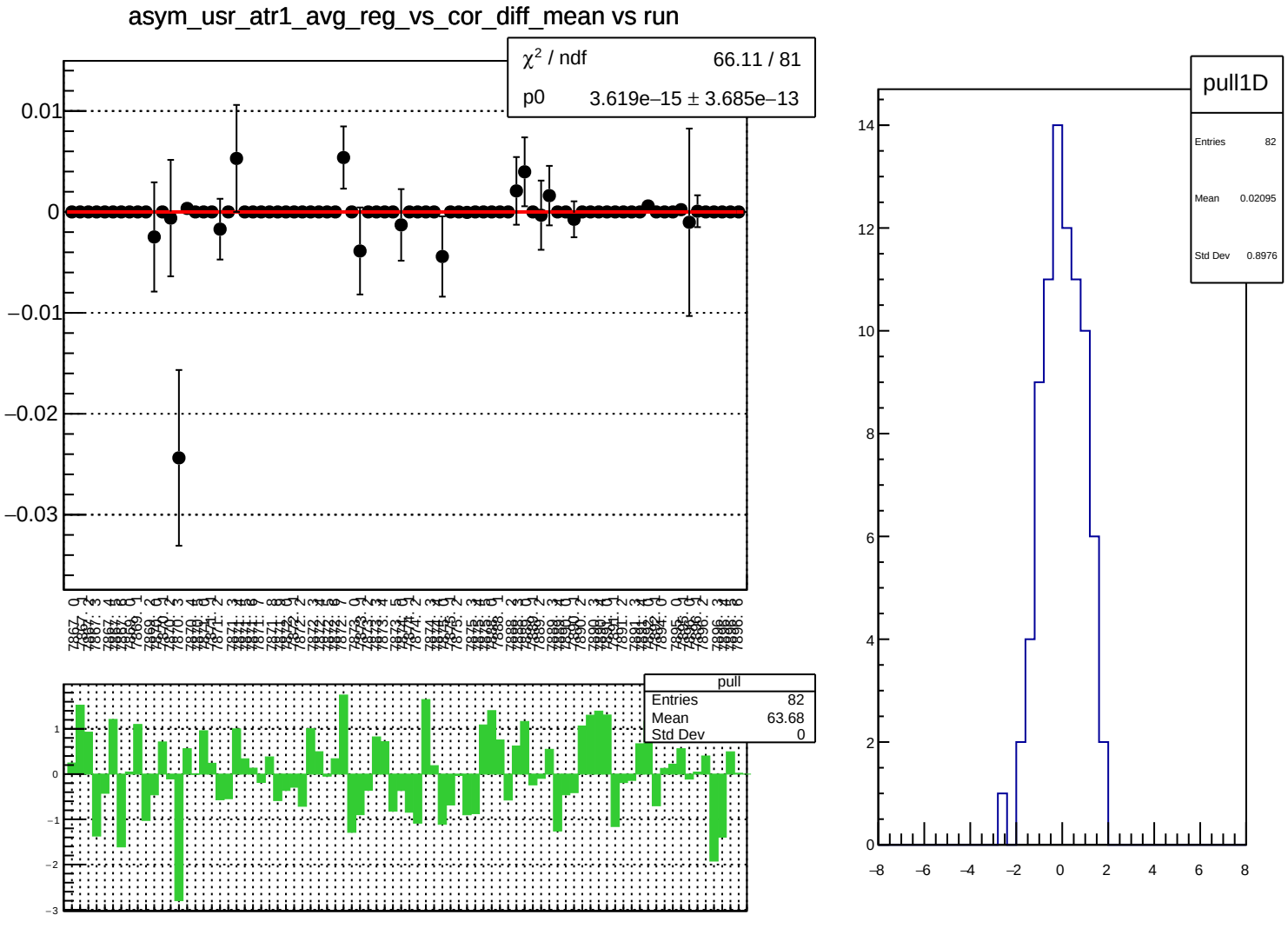

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.71 / 81
p0 1116 ± 2375
pull
Entries 82
Mean −116.5
Std Dev 0
pull1D
Entries 82
Mean 0.01691
Std Dev 0.895

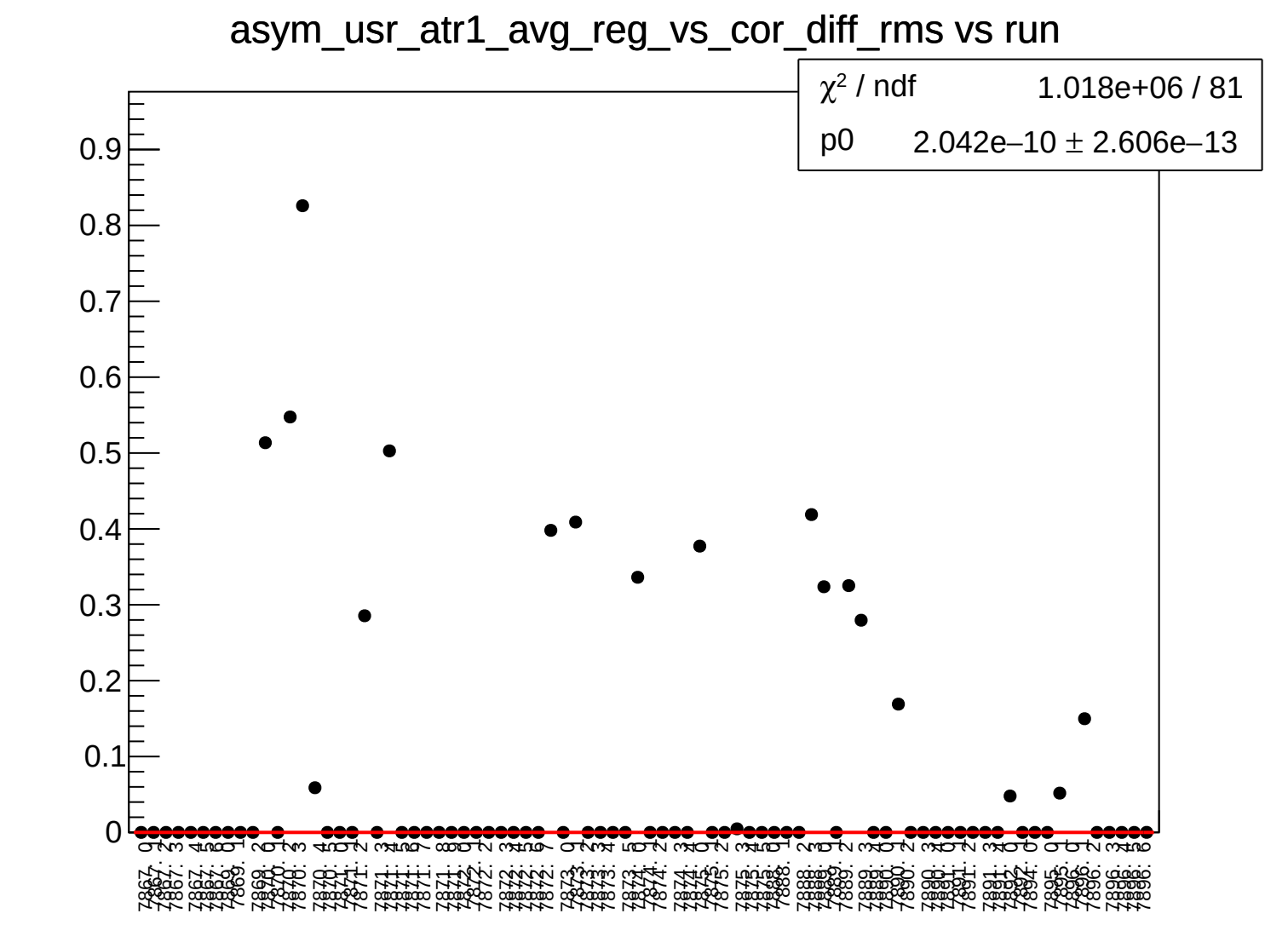

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.259e+04 / 81
p0 2124 ± 1.679
4500
4000
3500
3000
2500
2000

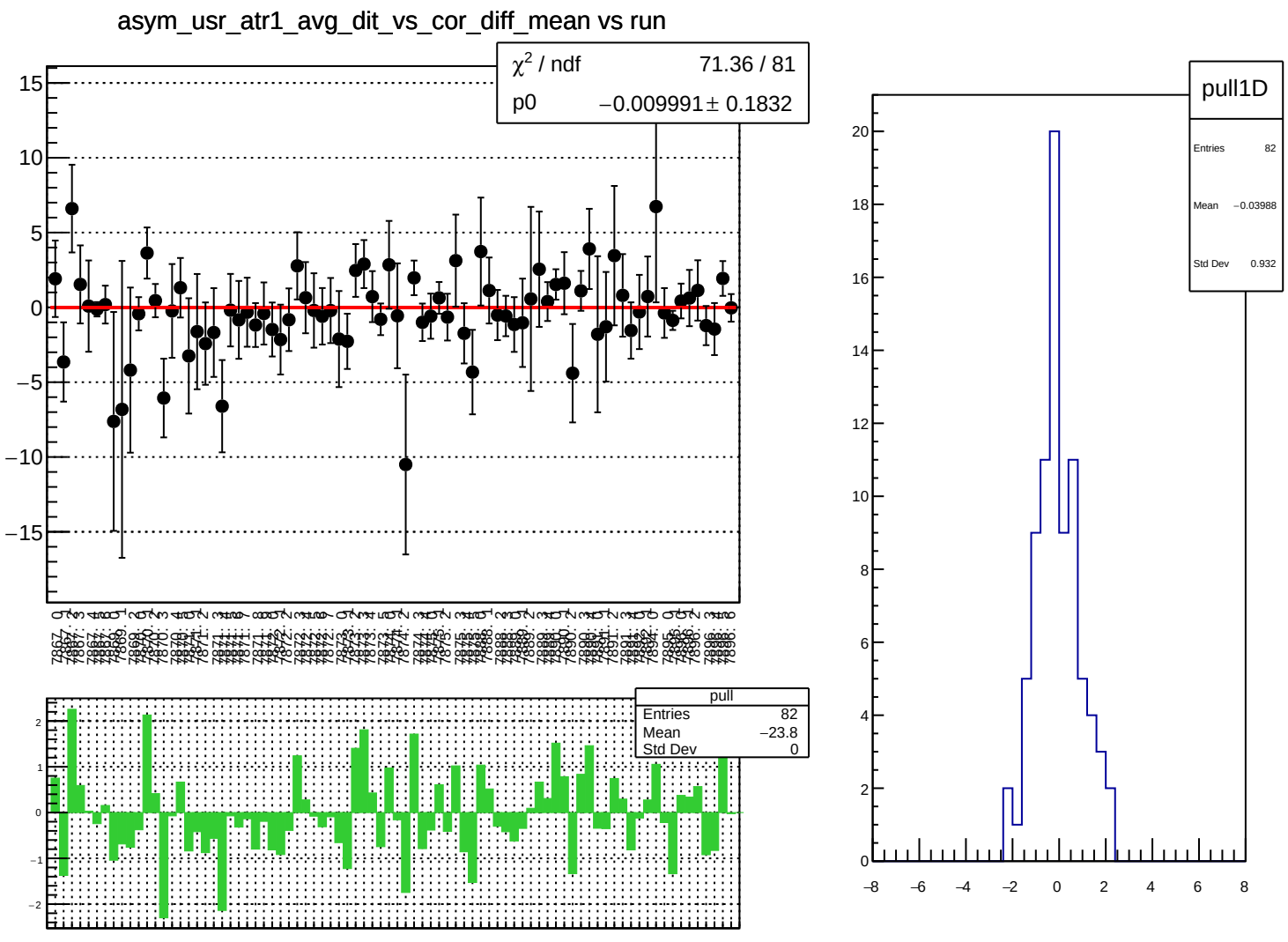

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 62.91 / 81
p0 −4633 ± 3089
100
50
0
−50
−100
pull
Entries 82
Mean −31.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

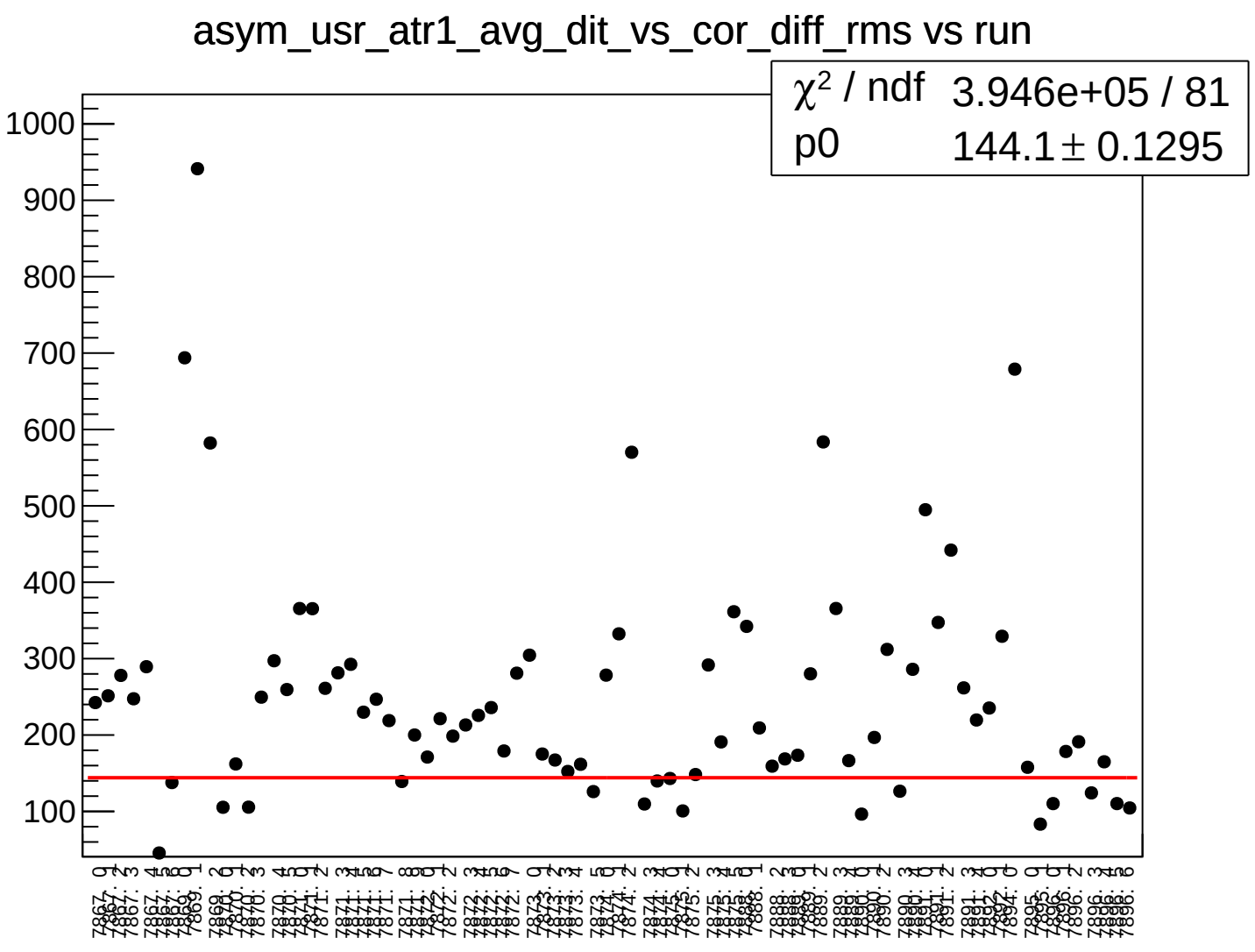

pull1D
Entries 82
Mean −0.01309
Std Dev 0.8758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

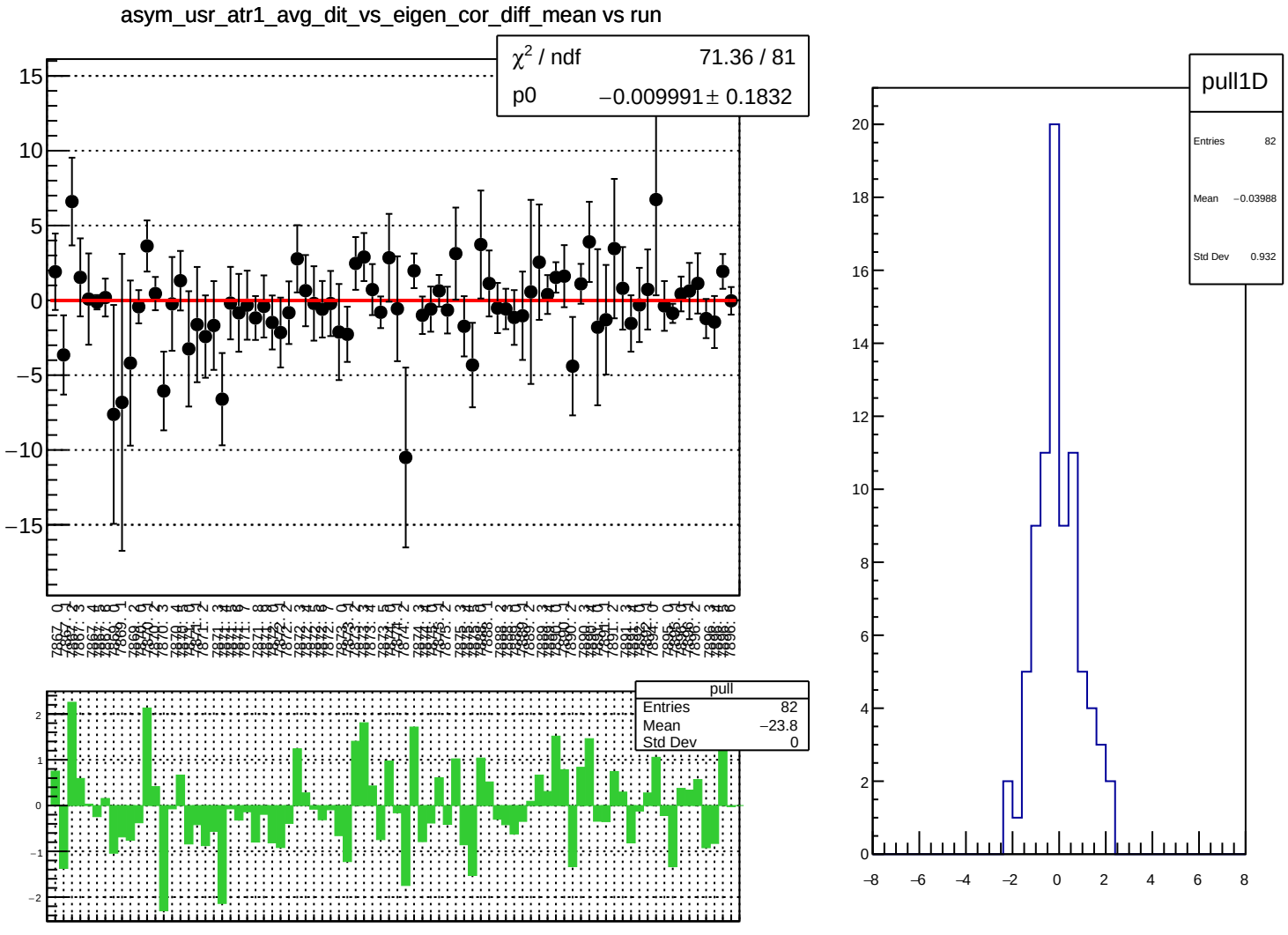

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 3.114e+04 / 81
p0 2763 ± 2.184
5500
5000
4500
4000
3500
3000
2500
2000

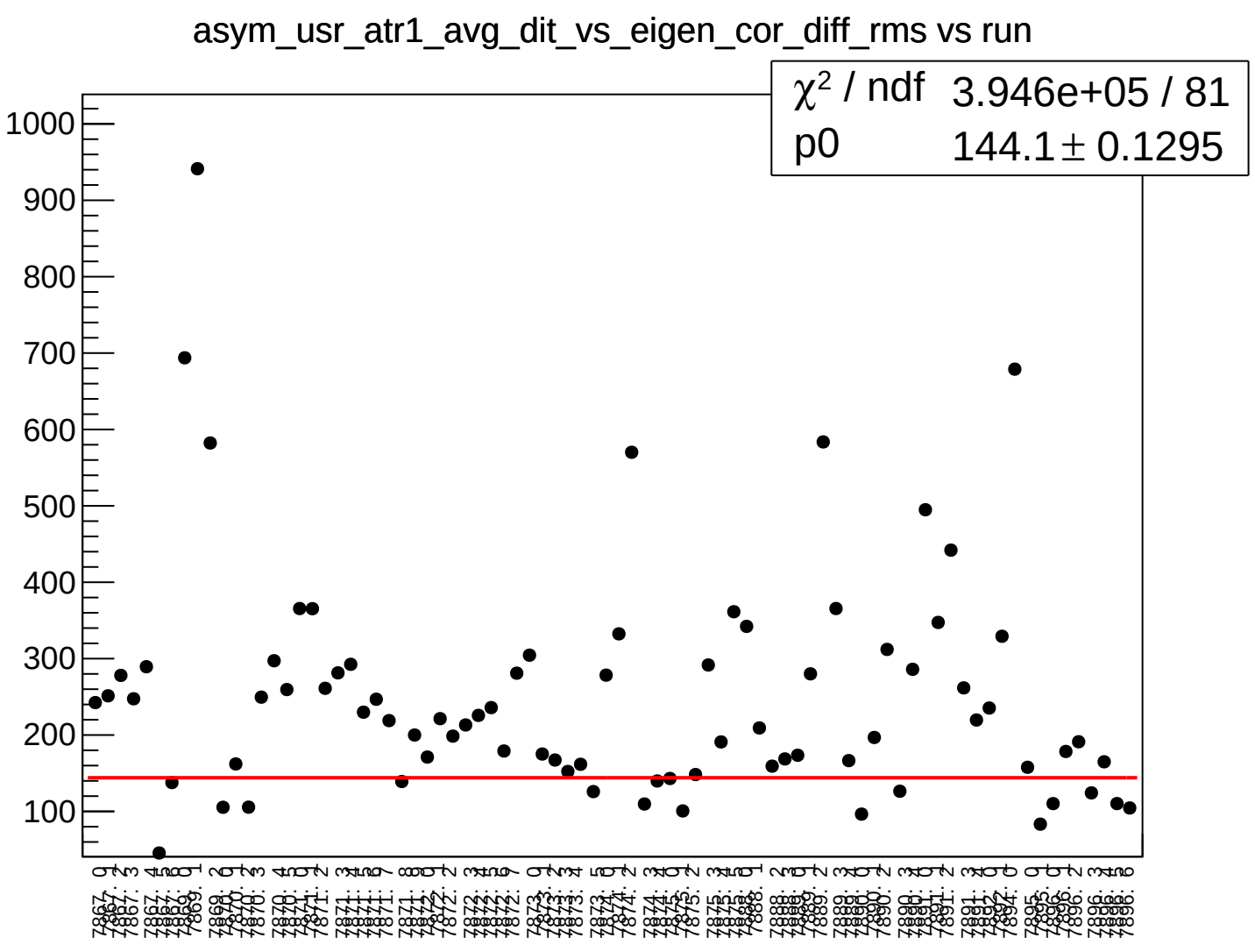

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.11 / 81
p0 3.619e−15 ± 3.685e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 82
Mean 63.68
Std Dev 0
pull1D
Entries 82
Mean 0.02095
Std Dev 0.8976
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

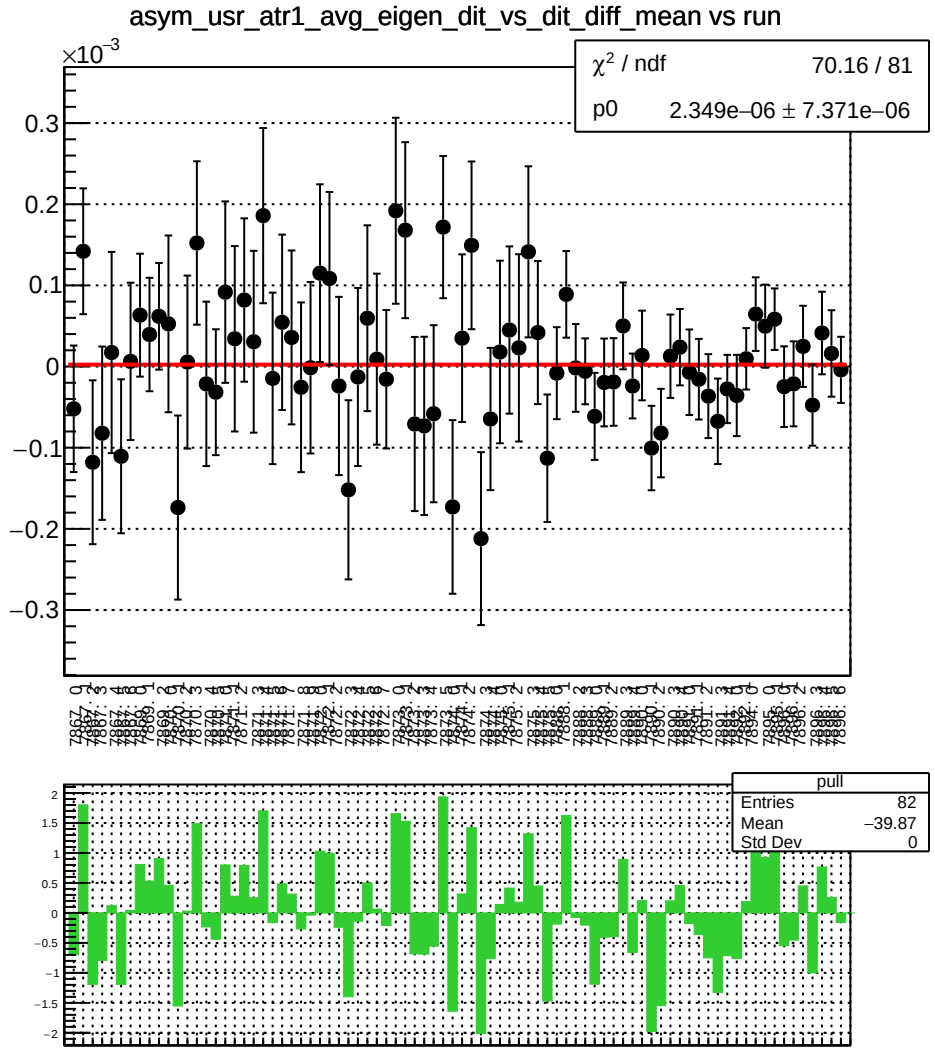

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 81
p0 2.042e−10 ± 2.606e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

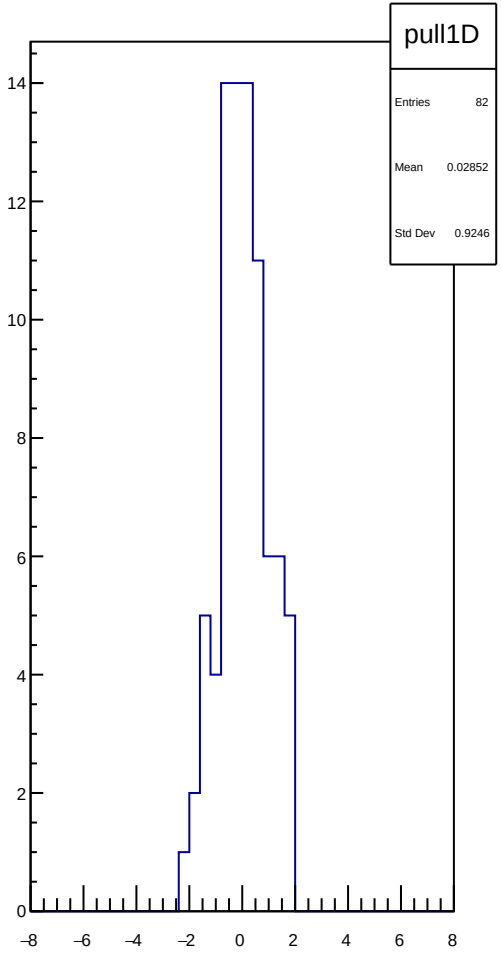

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.36 / 81
p0 −0.009991 ± 0.1832
pull
Entries 82
Mean −23.8
Std Dev 0
pull1D
Entries 82
Mean −0.03988
Std Dev 0.932

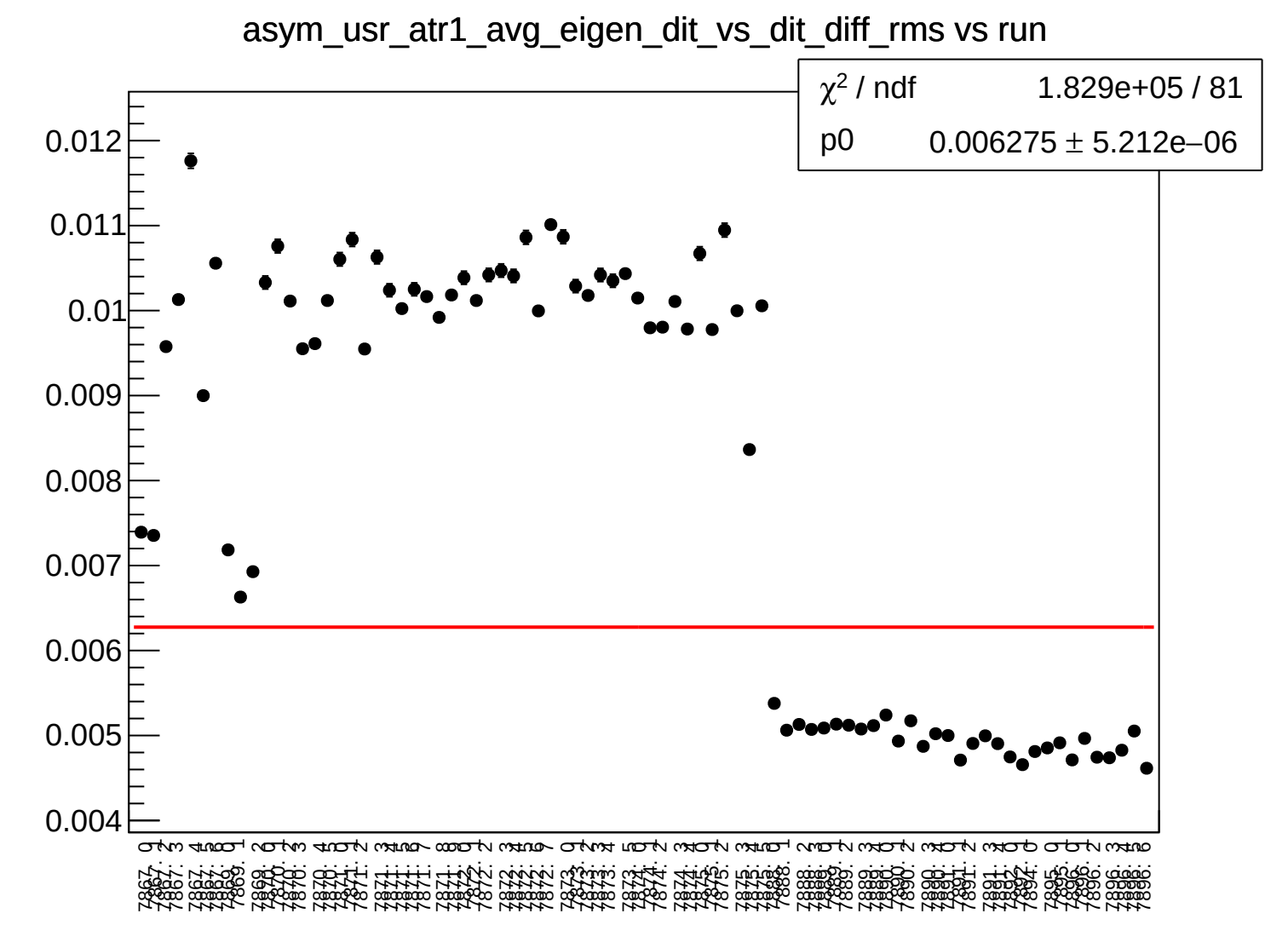

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.946e+05 / 81
p0 144.1 ± 0.1295
1000
900
800
700
600
500
400
300
200
100

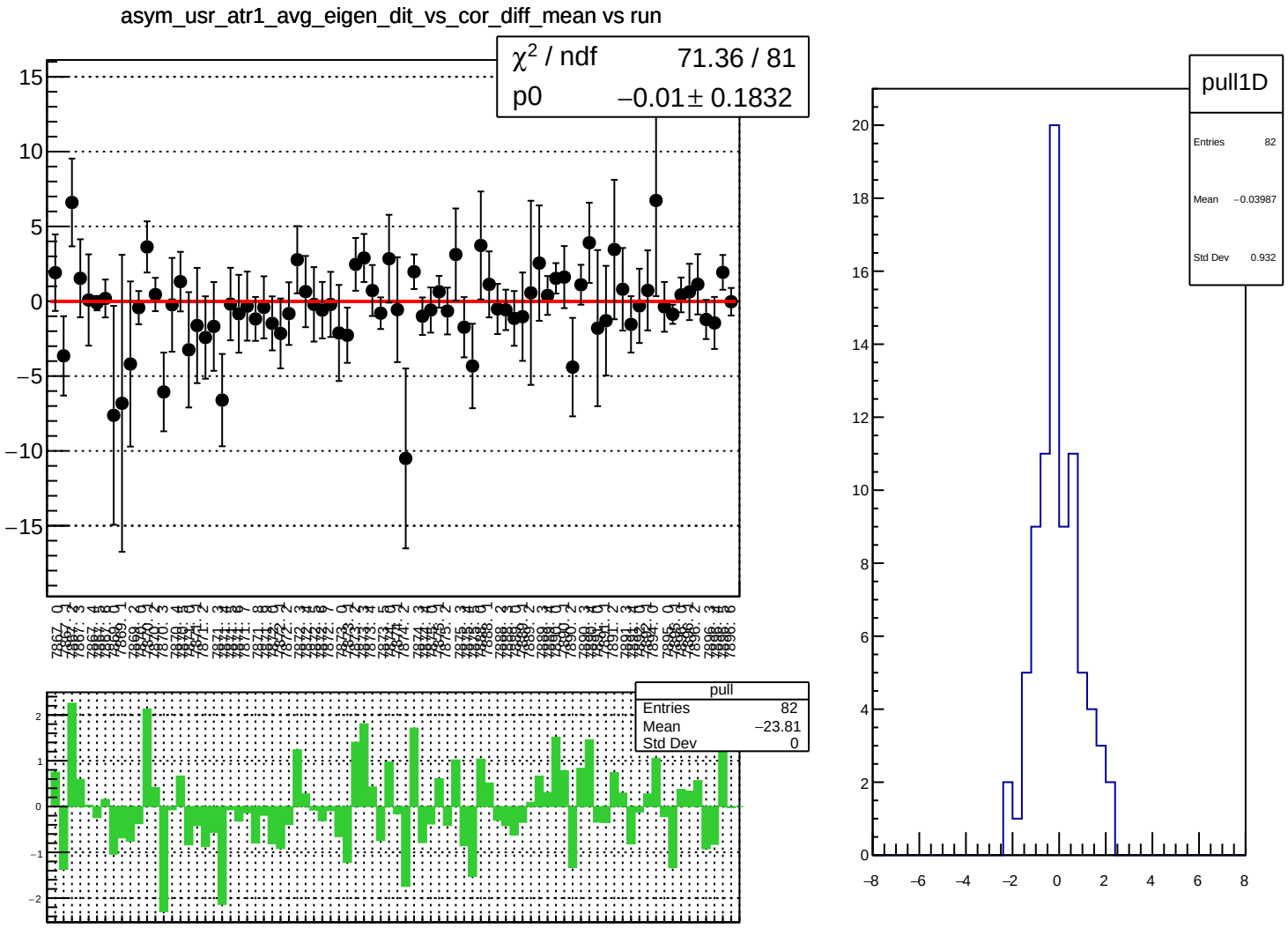

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.36 / 81
p0 −0.009991 ± 0.1832
pull
Entries 82
Mean −23.8
Std Dev 0
pull1D
Entries 82
Mean −0.03988
Std Dev 0.932

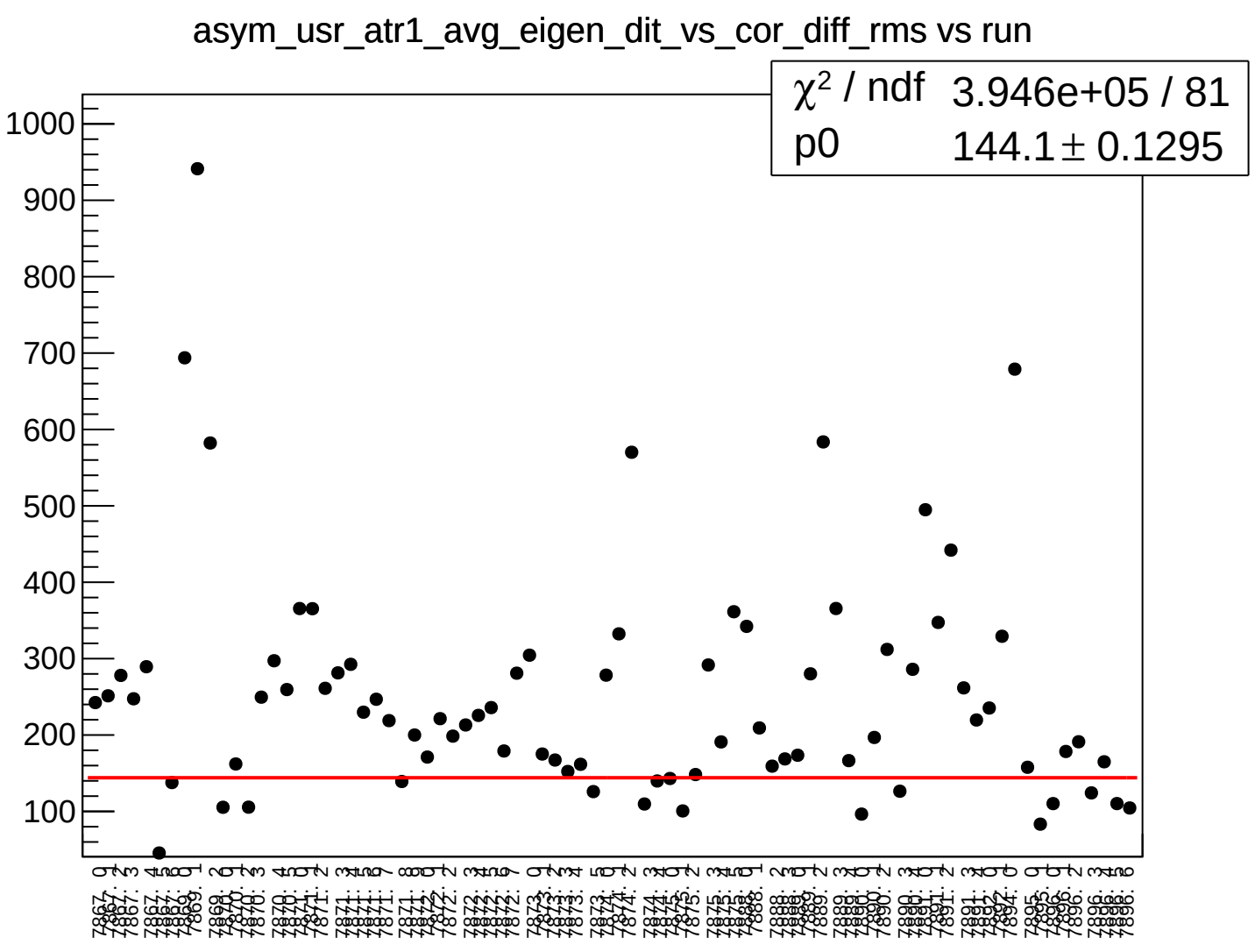

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.946e+05 / 81
p0 144.1 ± 0.1295
1000
900
800
700
600
500
400
300
200
100

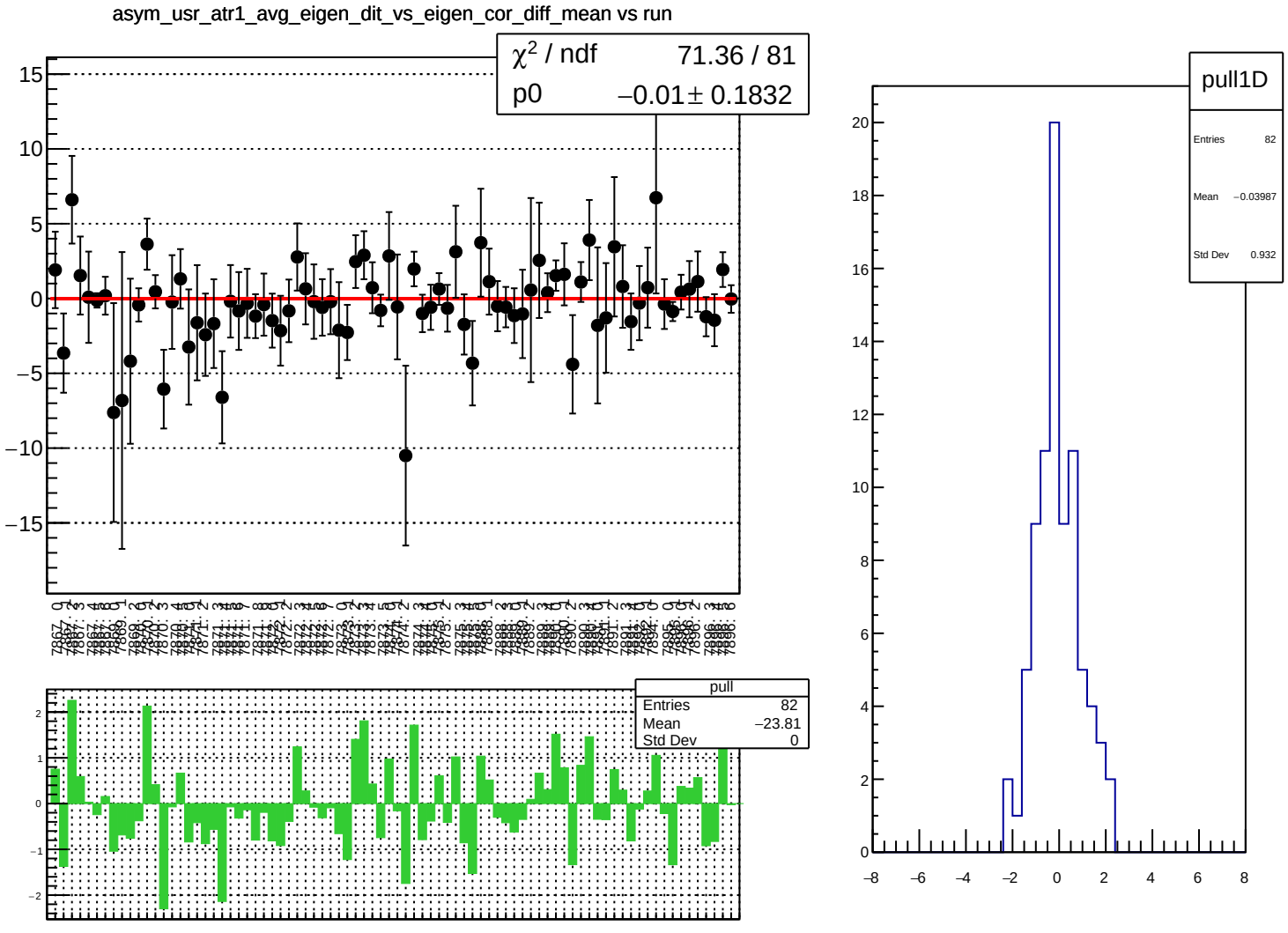

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.16 / 81
p0 2.349e−06 ± 7.371e−06
pull
Entries 82
Mean −39.87
Std Dev 0

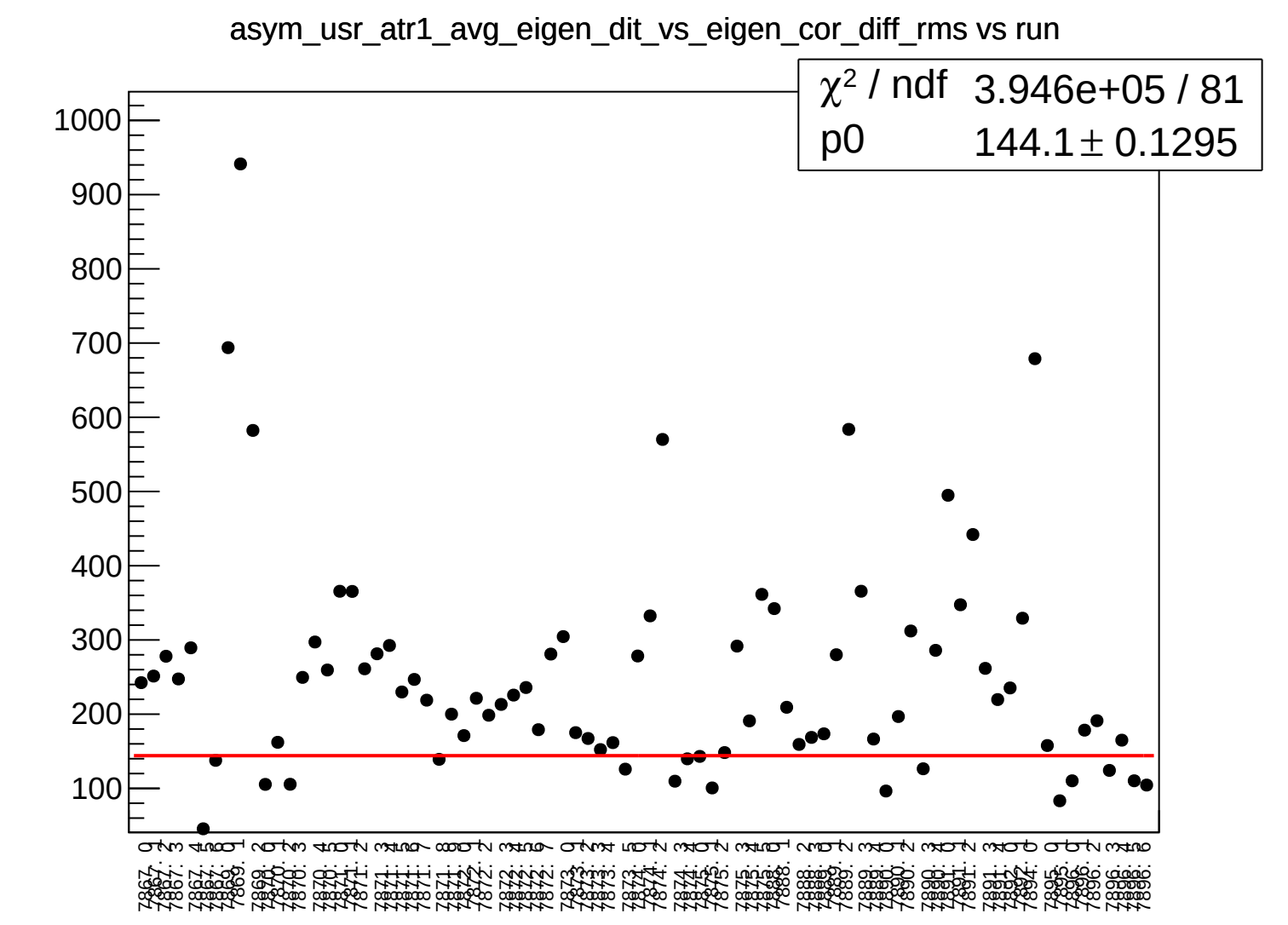

pull1D
Entries 82
Mean 0.02852
Std Dev 0.9246

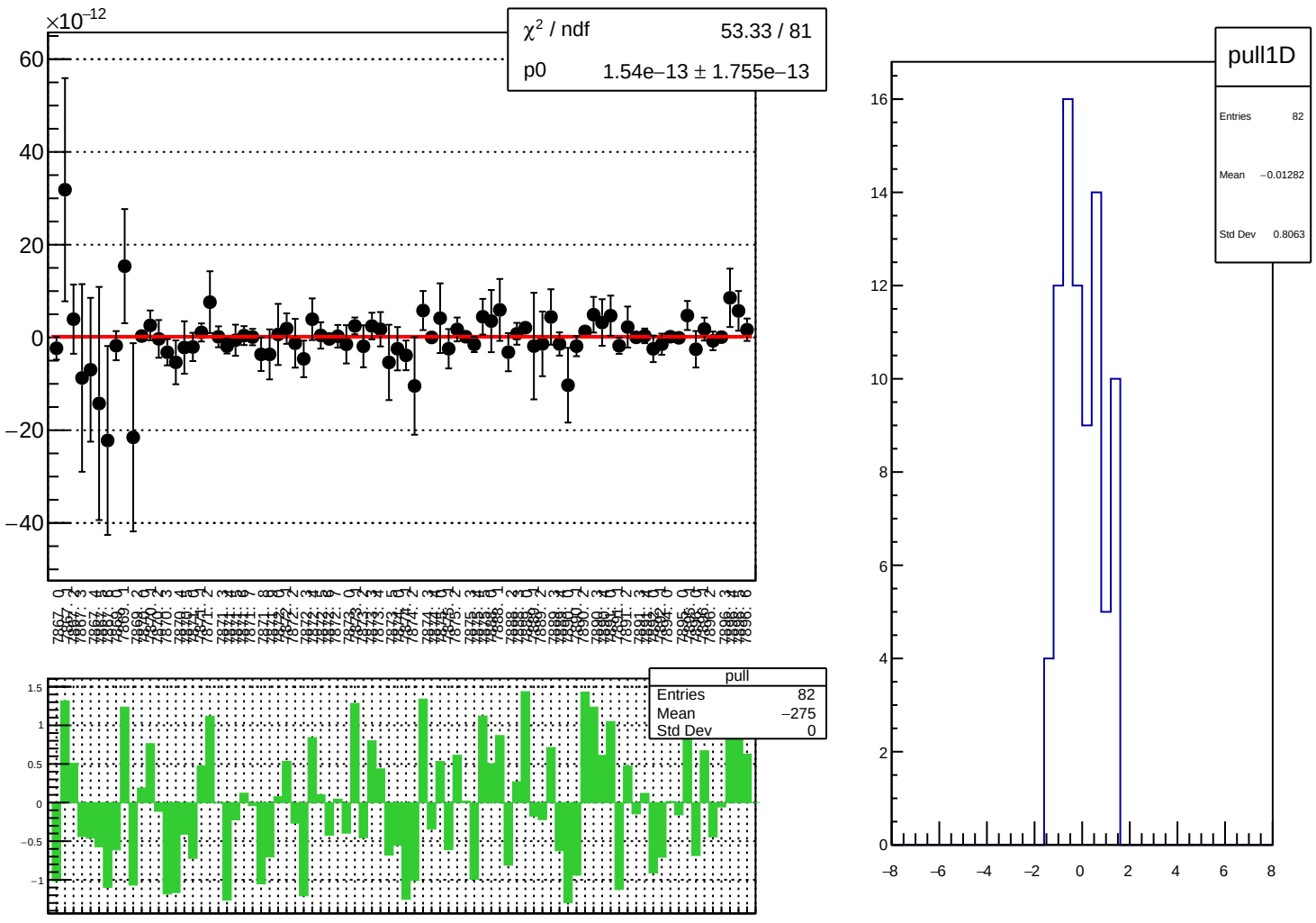

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.829e+05 / 81
p0 0.006275 ± 5.212e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

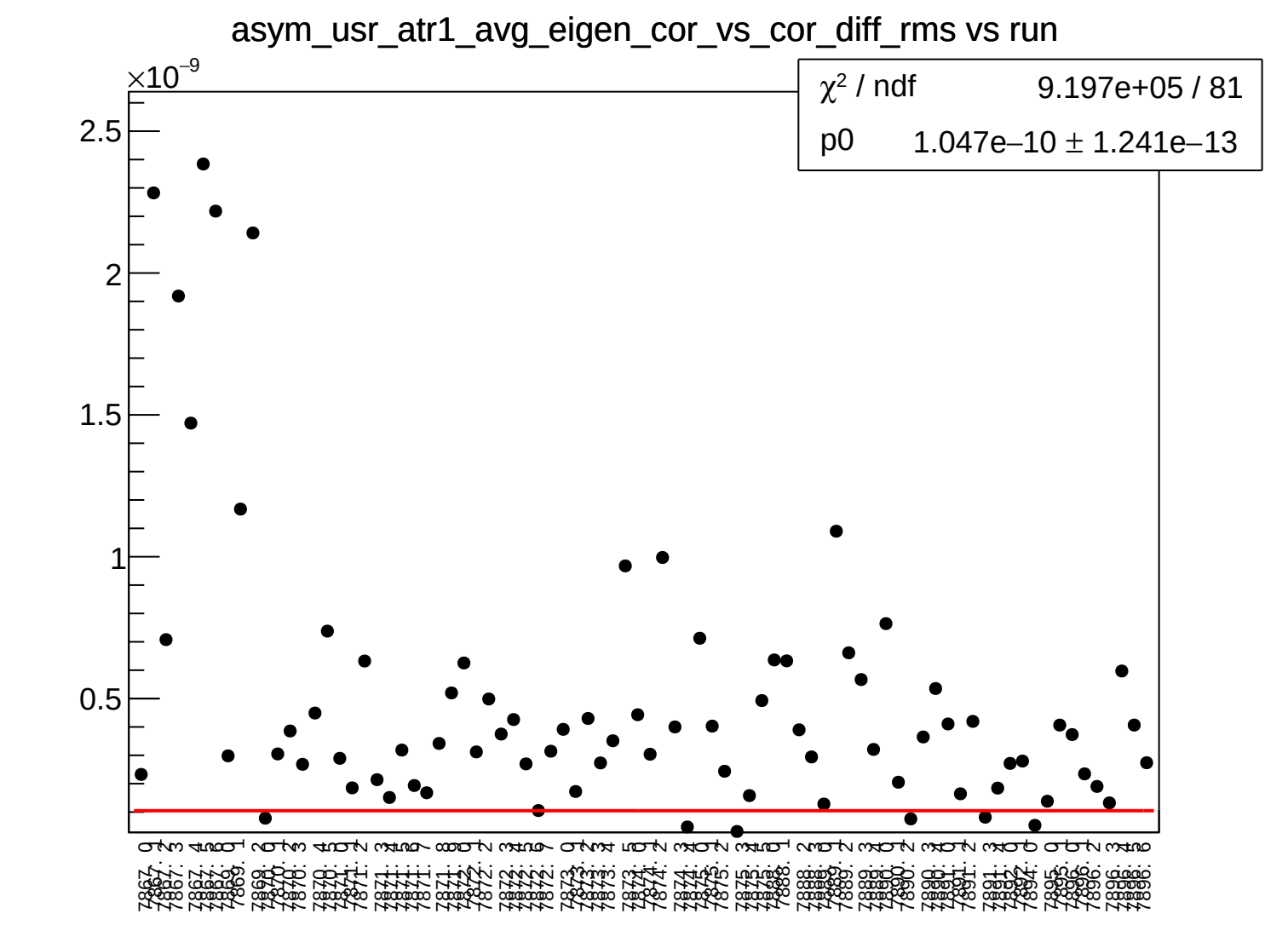

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.36 / 81
p0 −0.01 ± 0.1832
pull
Entries 82
Mean −23.81
Std Dev 0
pull1D
Entries 82
Mean −0.03987
Std Dev 0.932

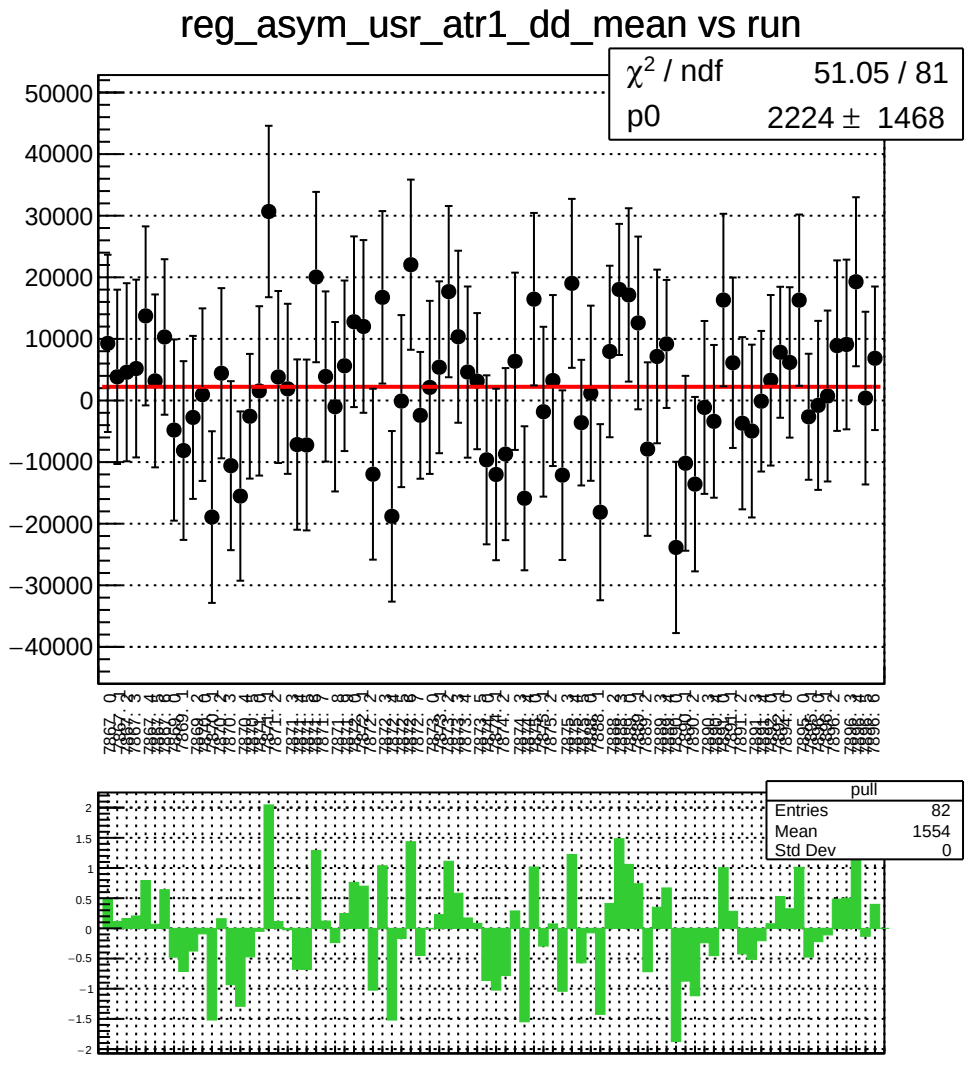

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.946e+05 / 81
p0 144.1 ± 0.1295
1000
900
800
700
600
500
400
300
200
100

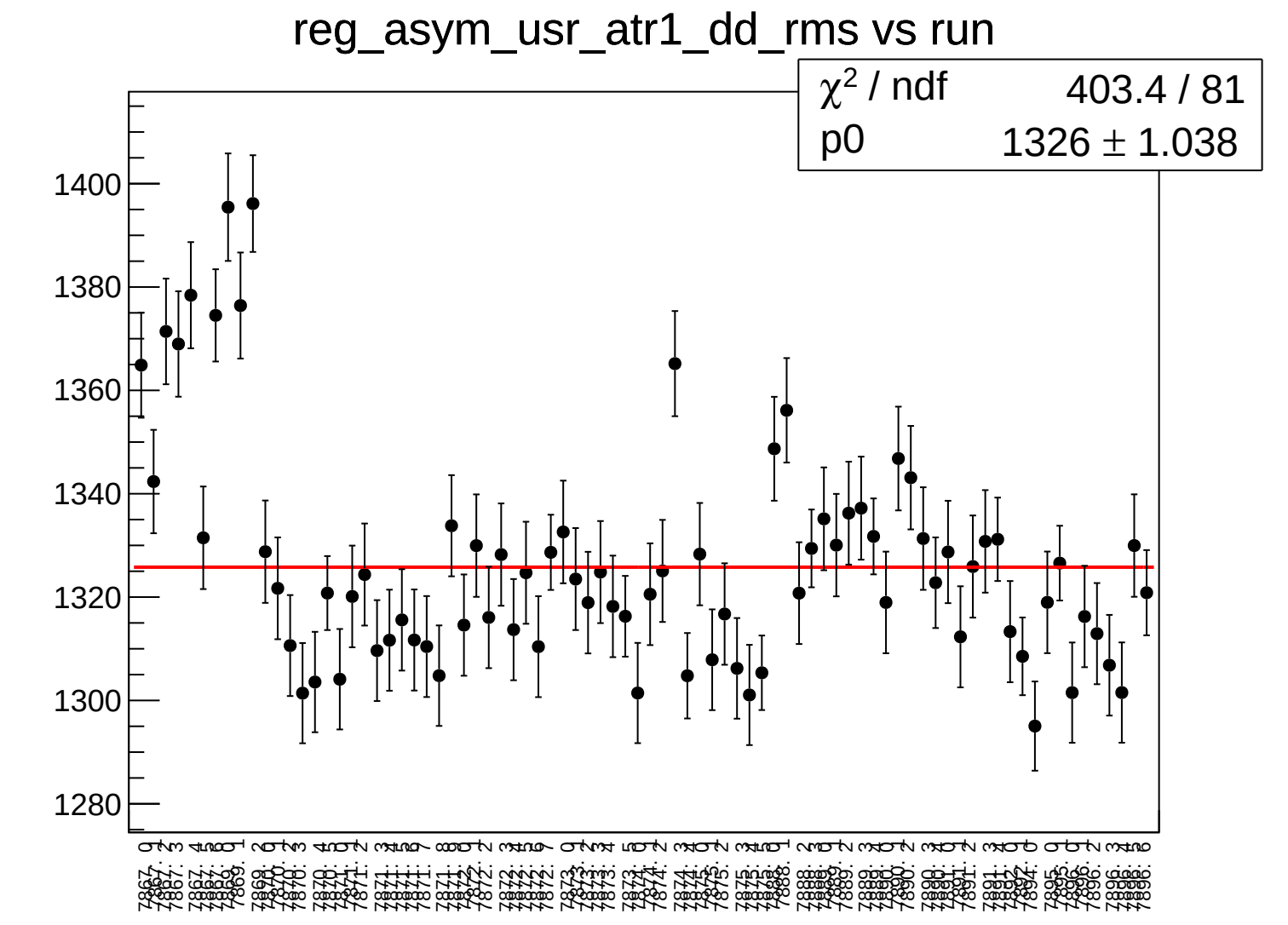

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.36 / 81
p0 −0.01 ± 0.1832
pull
Entries 82
Mean −23.81
Std Dev 0
pull1D
Entries 82
Mean −0.03987
Std Dev 0.932

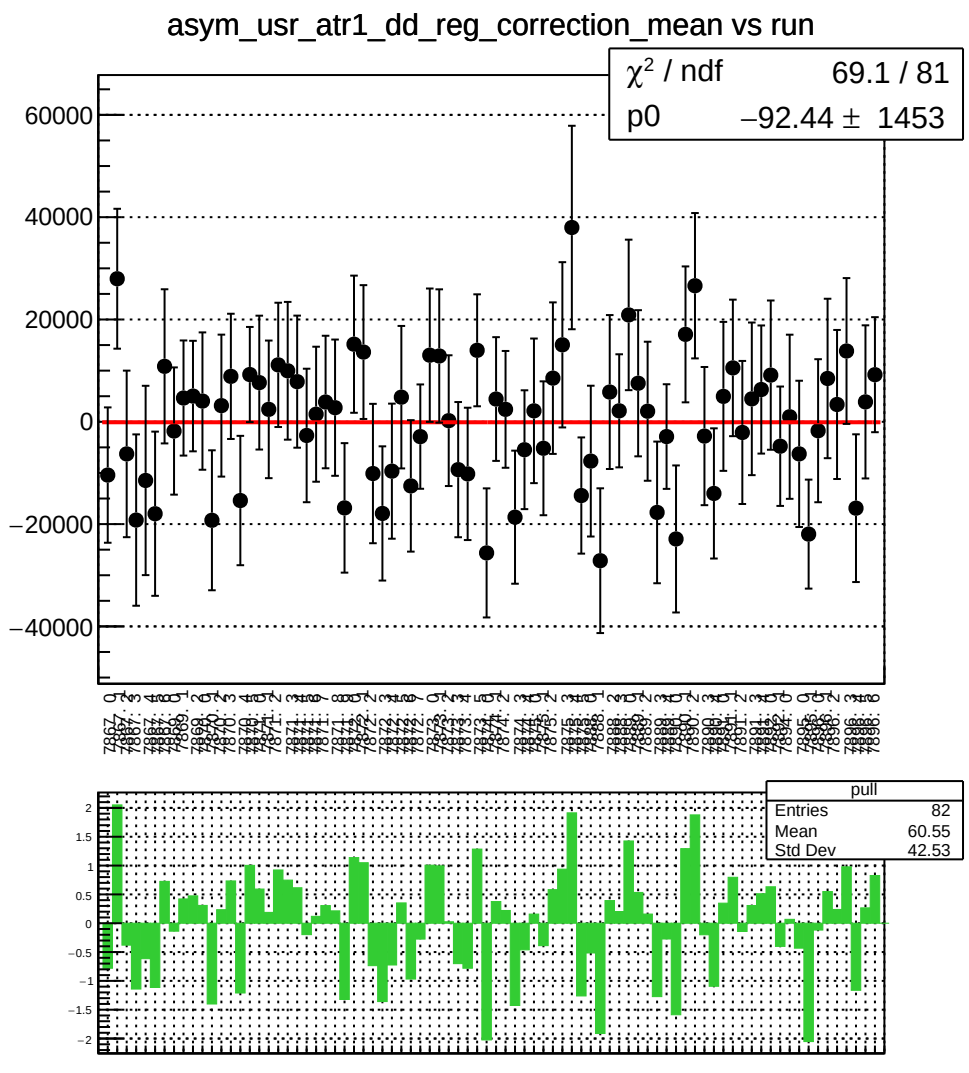

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.946e+05 / 81
p0 144.1 ± 0.1295
1000
900
800
700
600
500
400
300
200
100

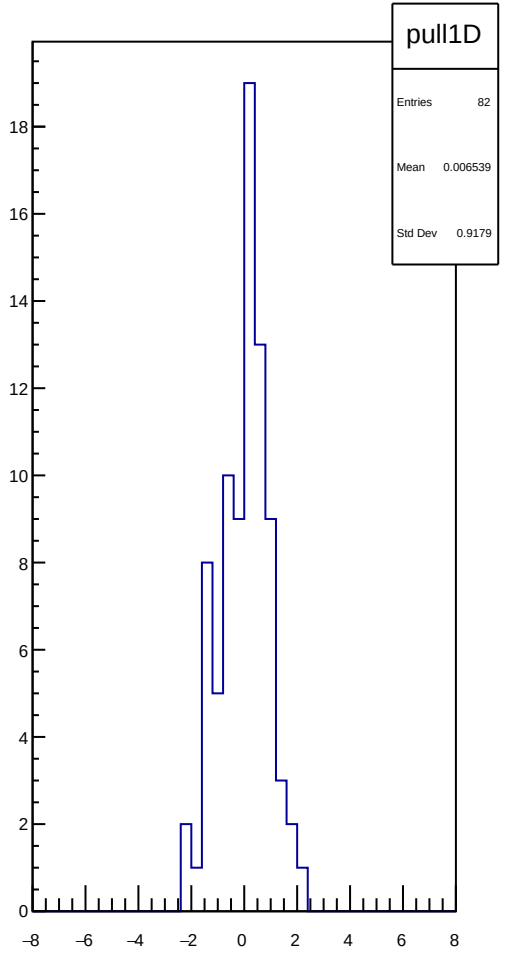

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.33 / 81
p0 1.54e−13 ± 1.755e−13
pull
Entries 82
Mean −275
Std Dev 0
pull1D
Entries 82
Mean −0.01282
Std Dev 0.8063

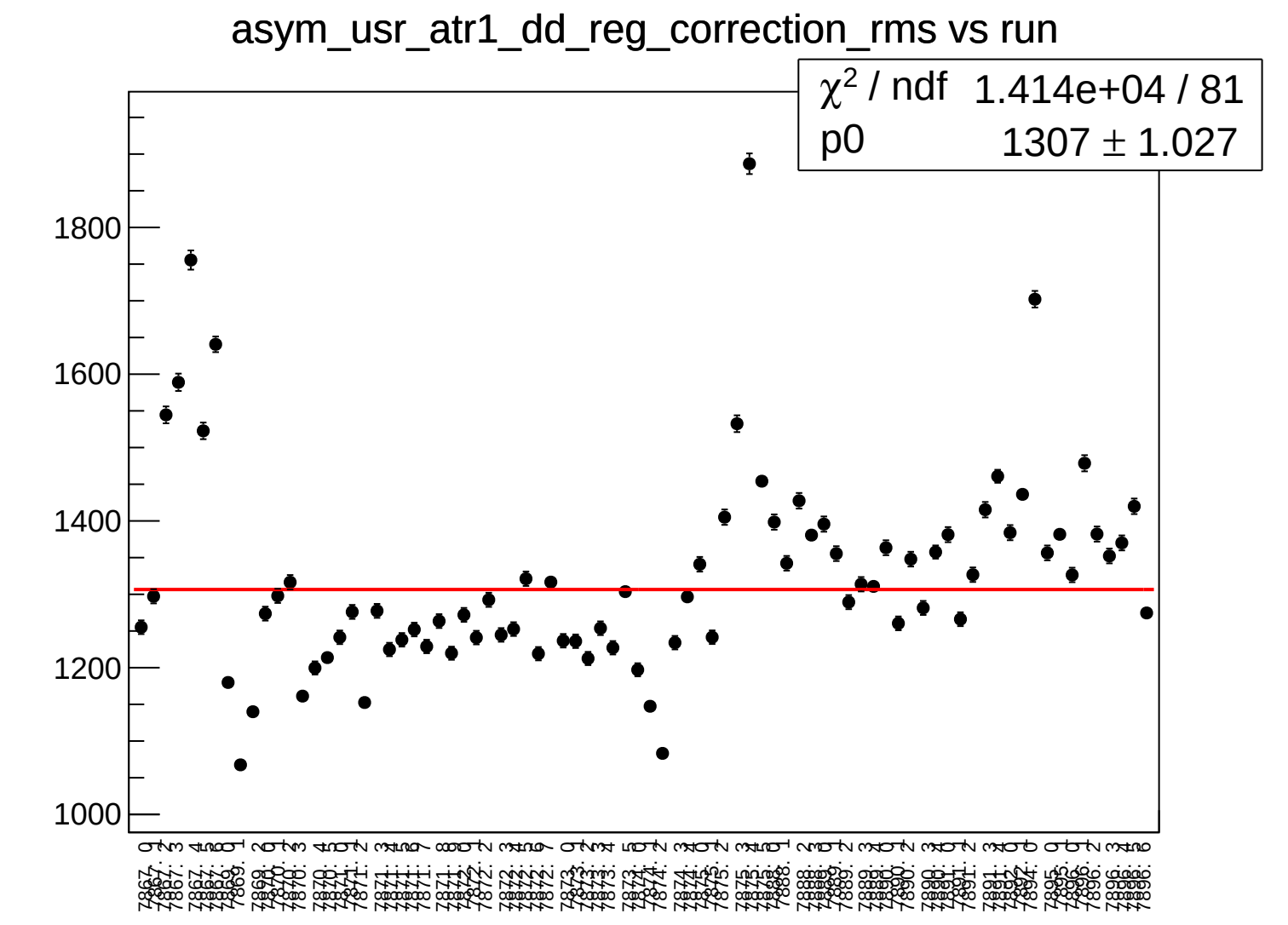

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.197e+05 / 81
p0 1.047e−10 ± 1.241e−13
2.5
2
1.5
1
0.5

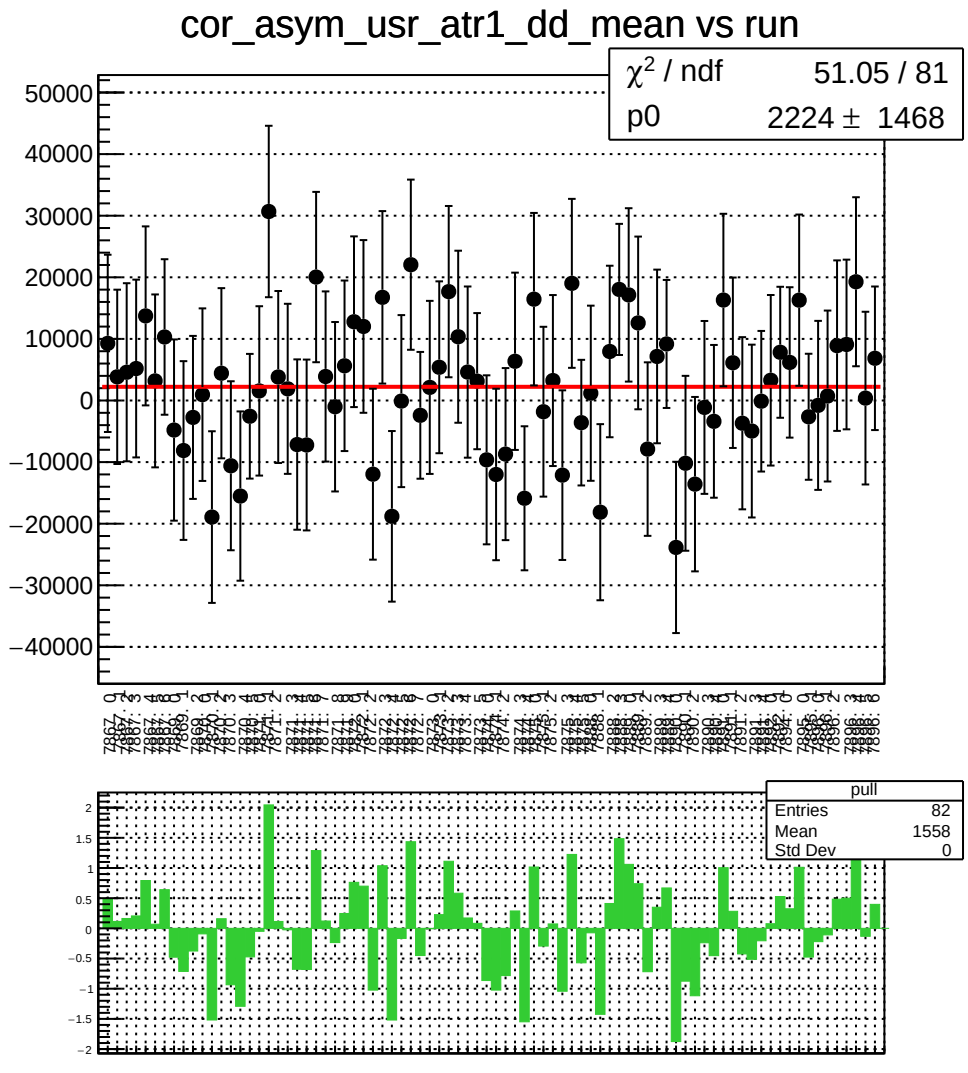

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 51.05 / 81
p0 2224 ± 1468
pull
Entries 82
Mean 1554
Std Dev 0
pull1D
Entries 82
Mean 0.0006313
Std Dev 0.789

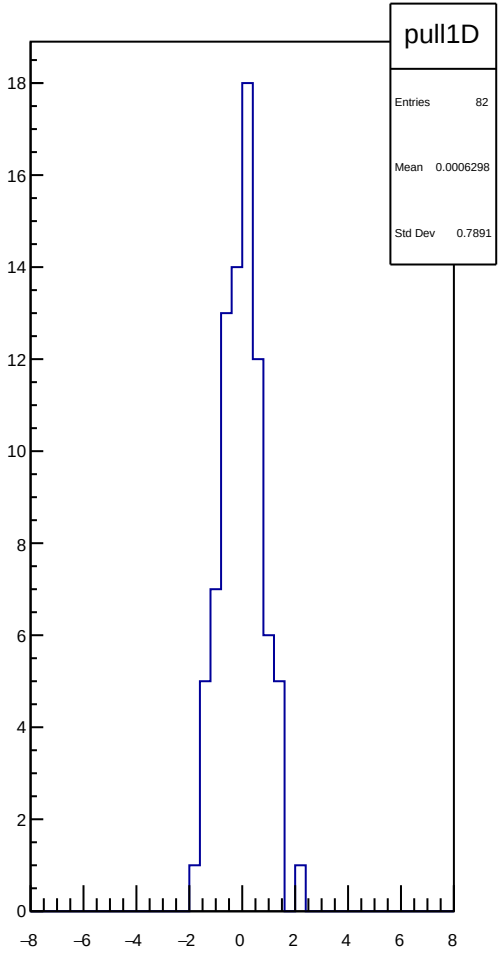

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 403.4 / 81
p0 1326 ± 1.038
1400
1380
1360
1340
1320
1300
1280

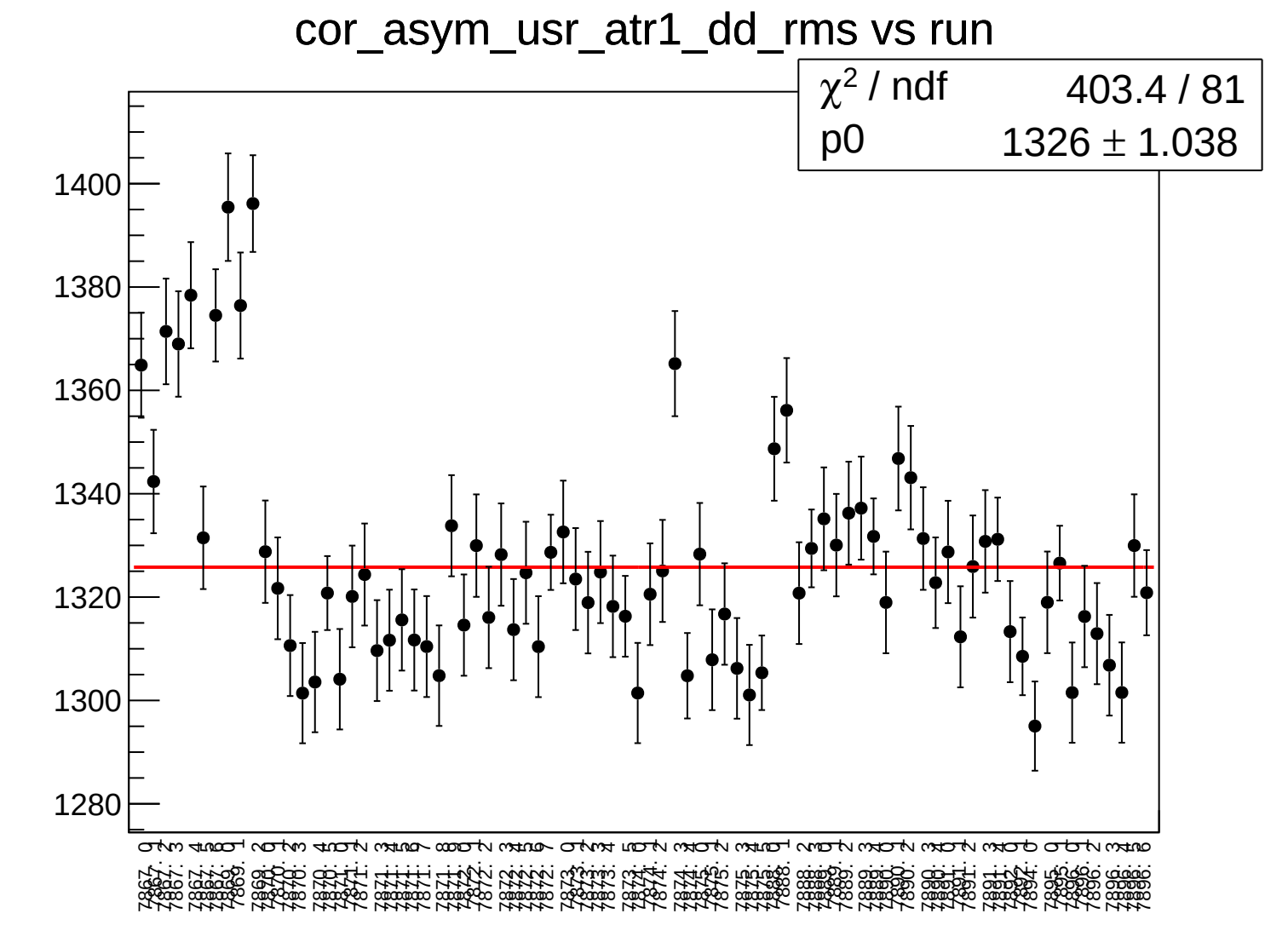

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 69.1 / 81
p0 −92.44 ± 1453
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 60.55
Std Dev 42.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

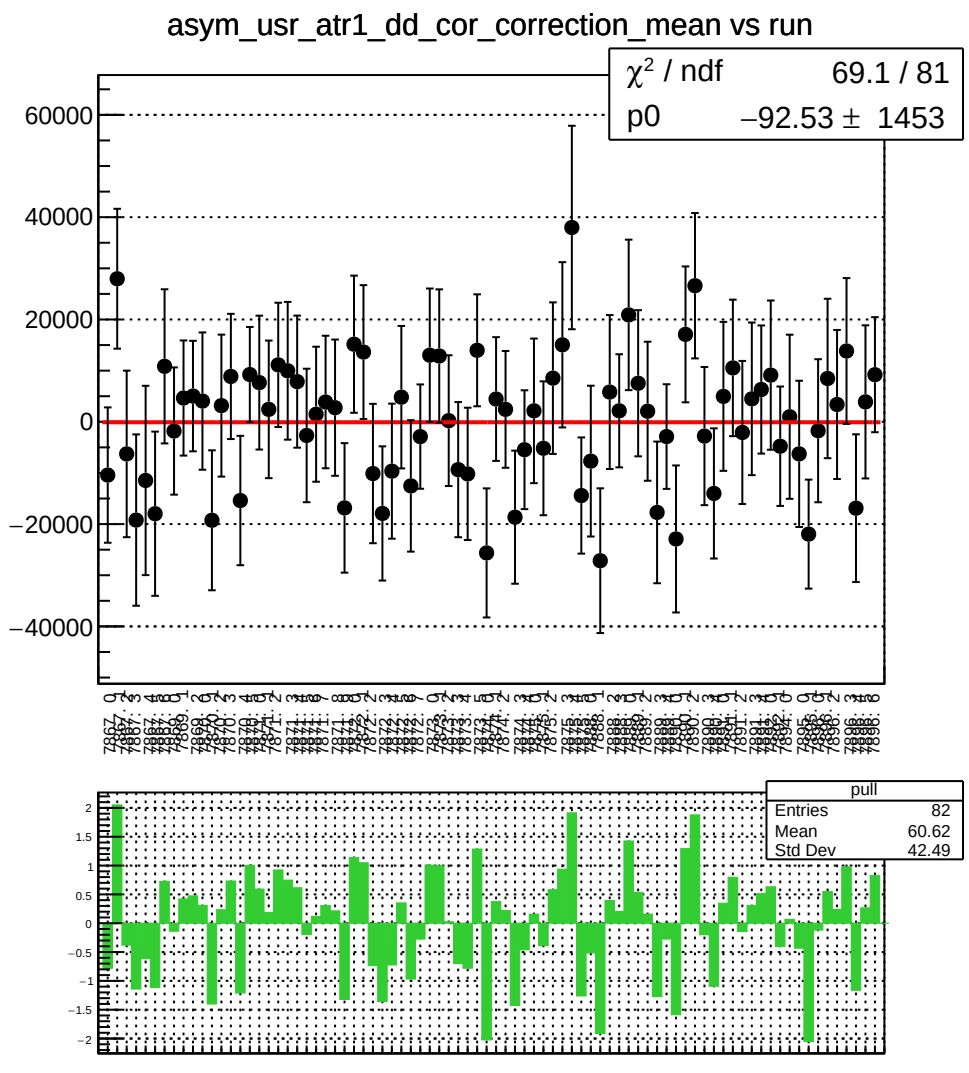

pull1D
Entries 82
Mean 0.006539
Std Dev 0.9179
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

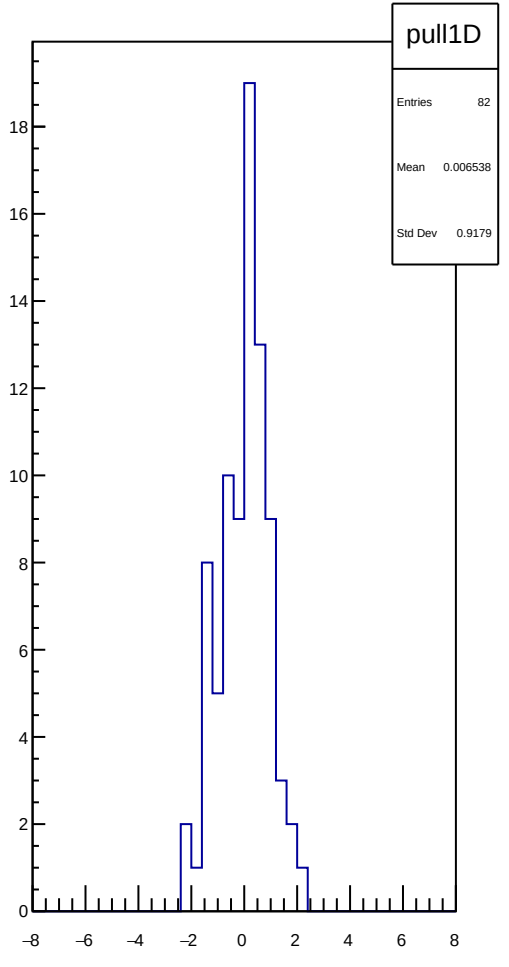

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.414e+04 / 81
p0 1307 ± 1.027
1800
1600
1400
1200
1000

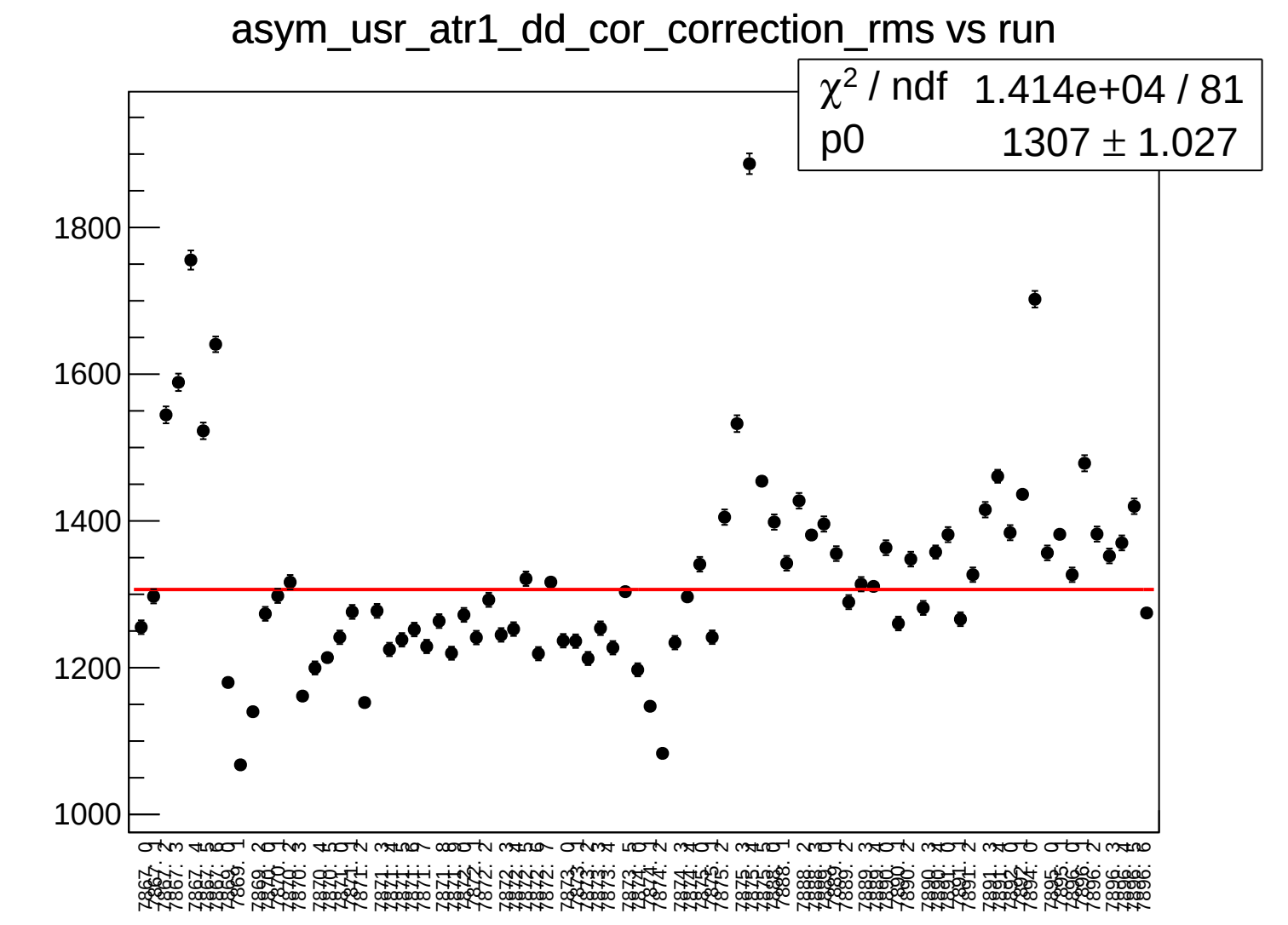

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 51.05 / 81
p0 2224 ± 1468
pull
Entries 82
Mean 1558
Std Dev 0

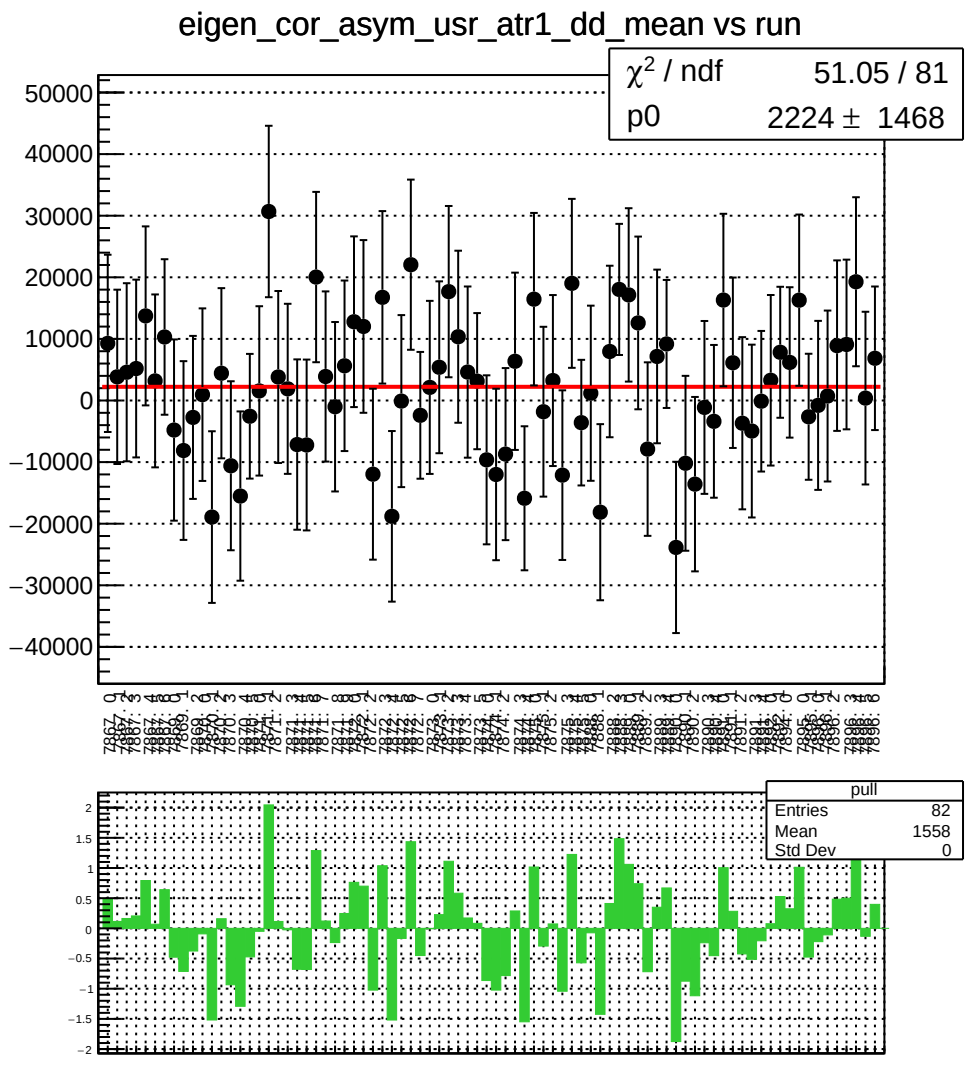

pull1D
Entries 82
Mean 0.0006298
Std Dev 0.7891

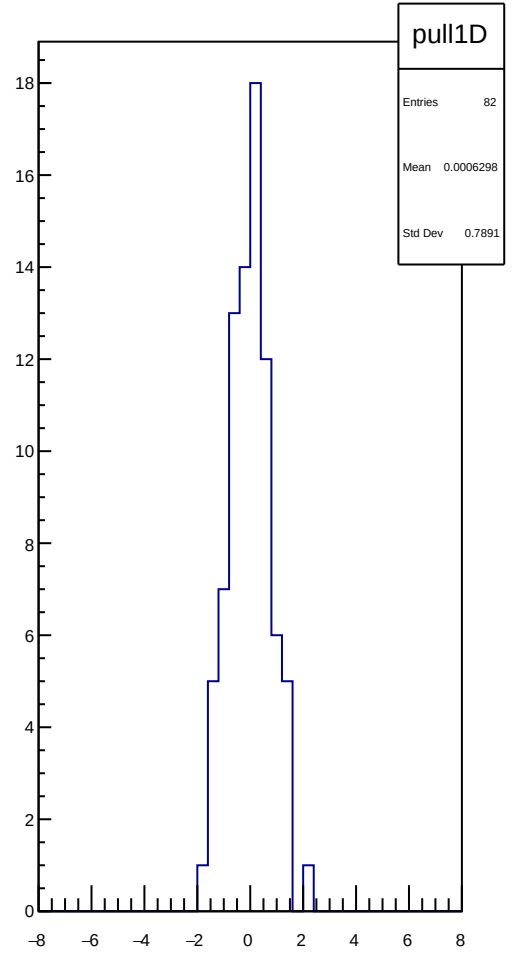

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 403.4 / 81
p0 1326 ± 1.038
1400
1380
1360
1340
1320
1300
1280

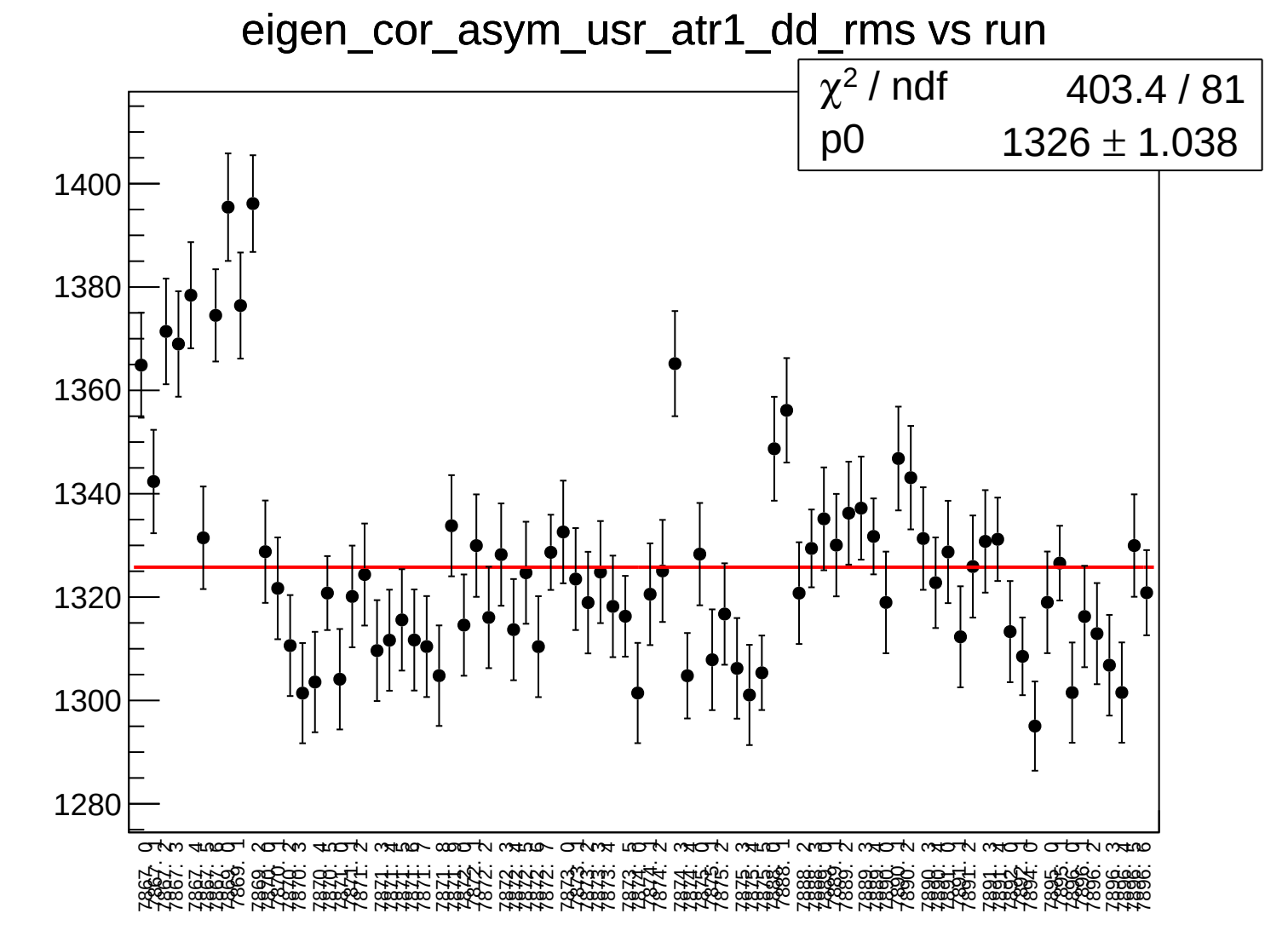

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 69.1 / 81
p0 −92.53 ± 1453
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 60.62
Std Dev 42.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

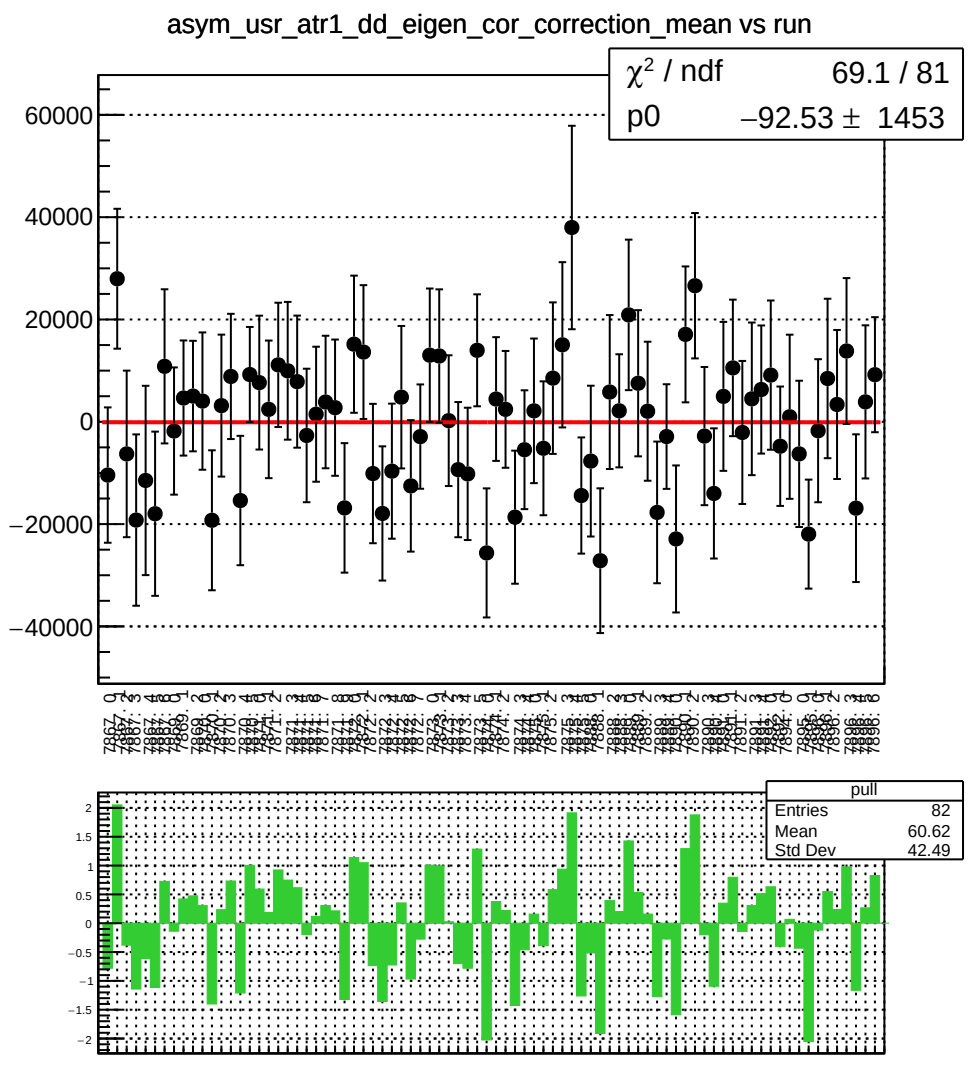

pull1D
Entries 82
Mean 0.006538
Std Dev 0.9179
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

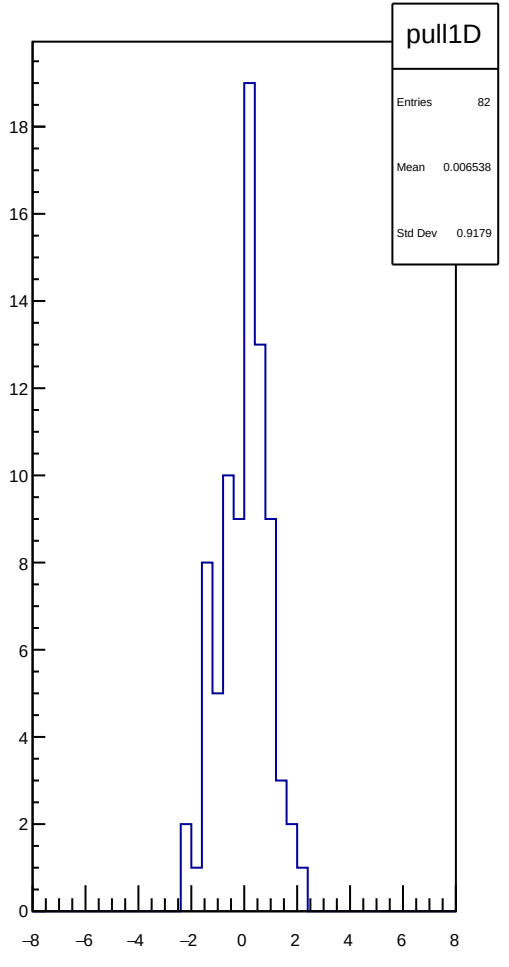

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.414e+04 / 81
p0 1307 ± 1.027
1800
1600
1400
1200
1000

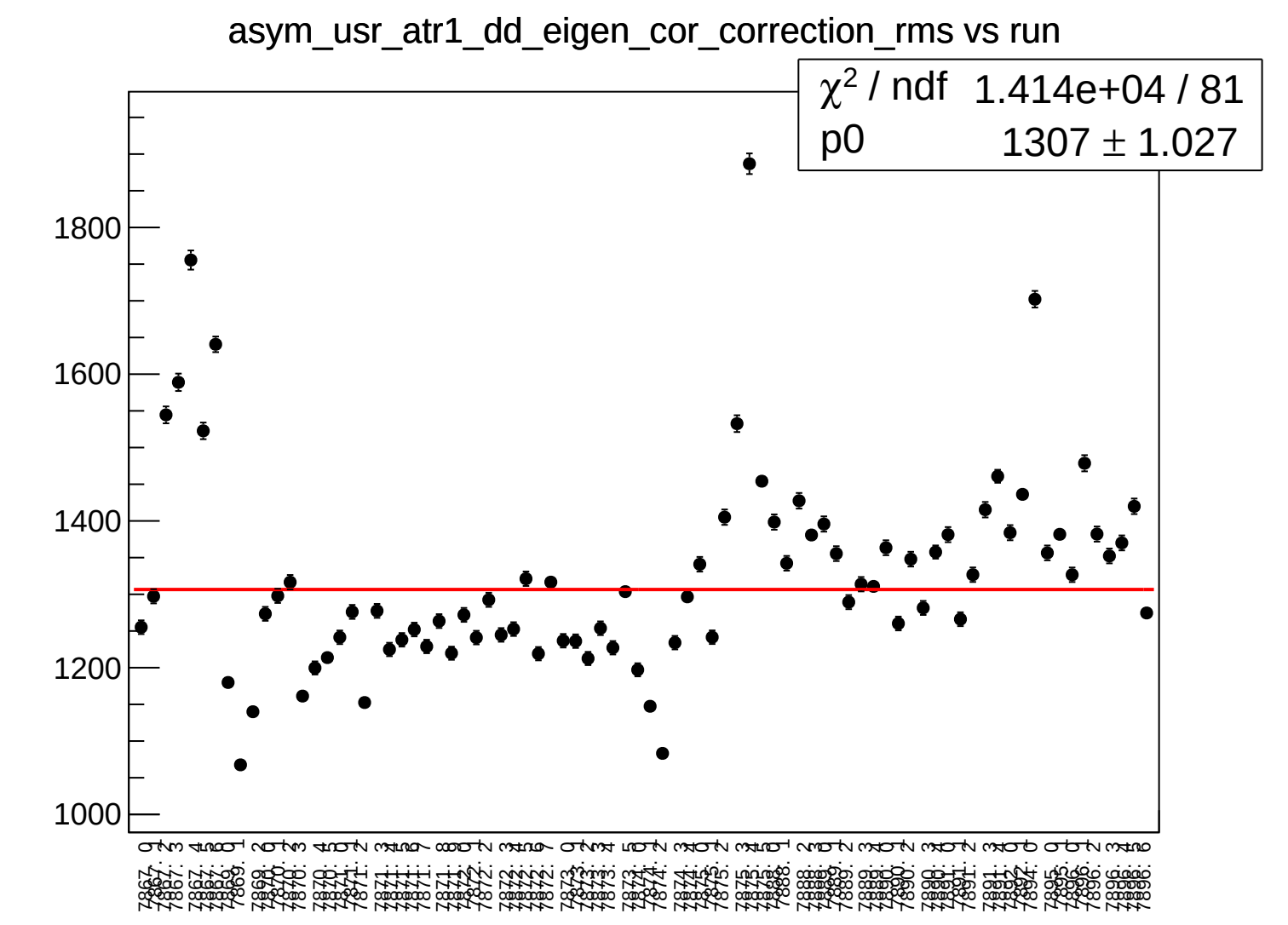

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 51.05 / 81
p0 2224 ± 1468
pull
Entries 82
Mean 1558
Std Dev 0

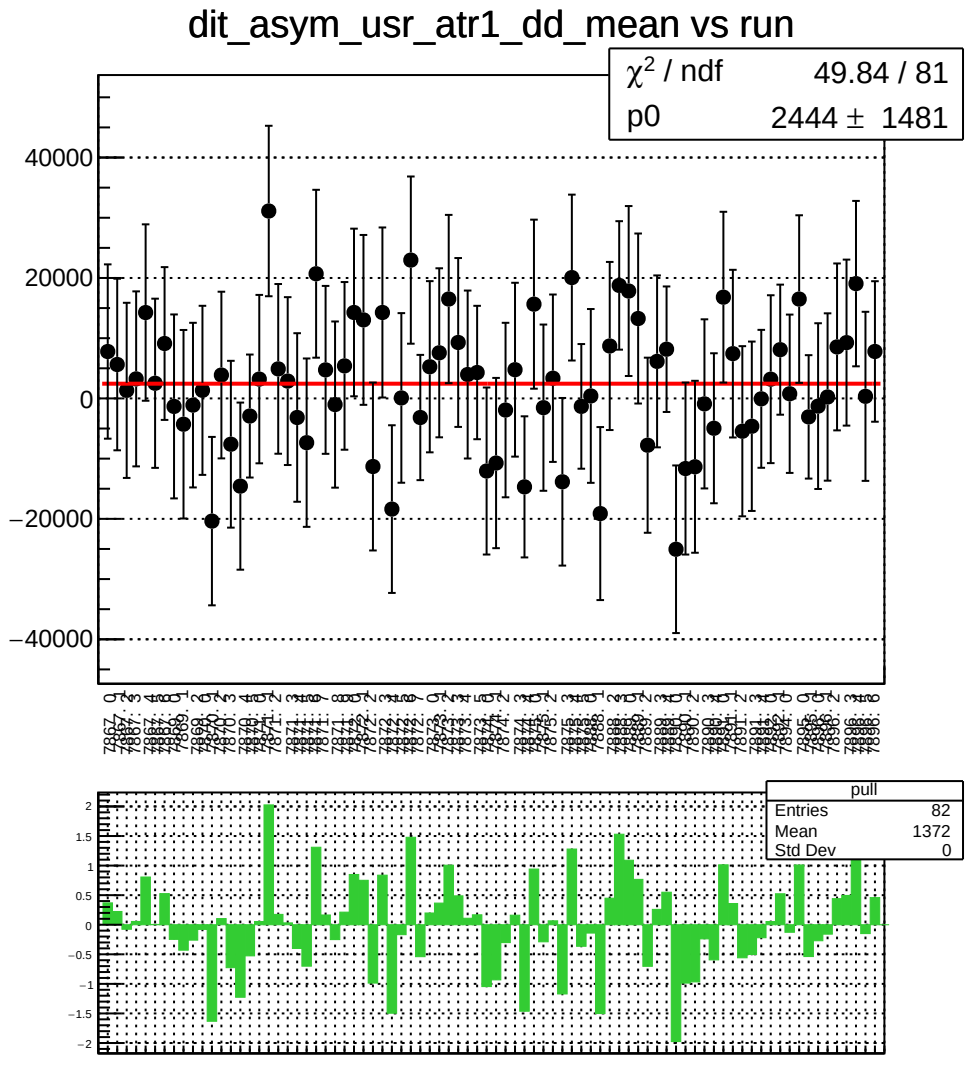

pull1D
Entries 82
Mean 0.0006298
Std Dev 0.7891

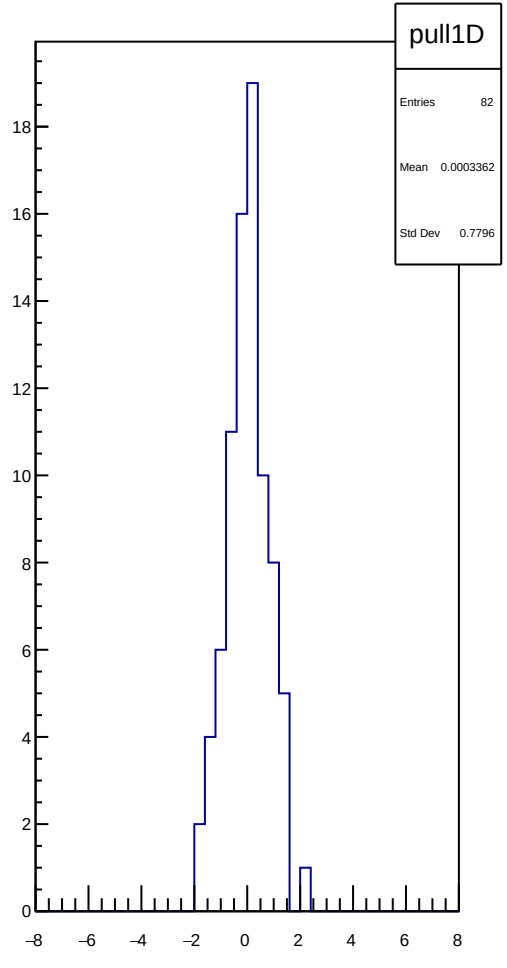

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 403.4 / 81
p0 1326 ± 1.038
1400
1380
1360
1340
1320
1300
1280

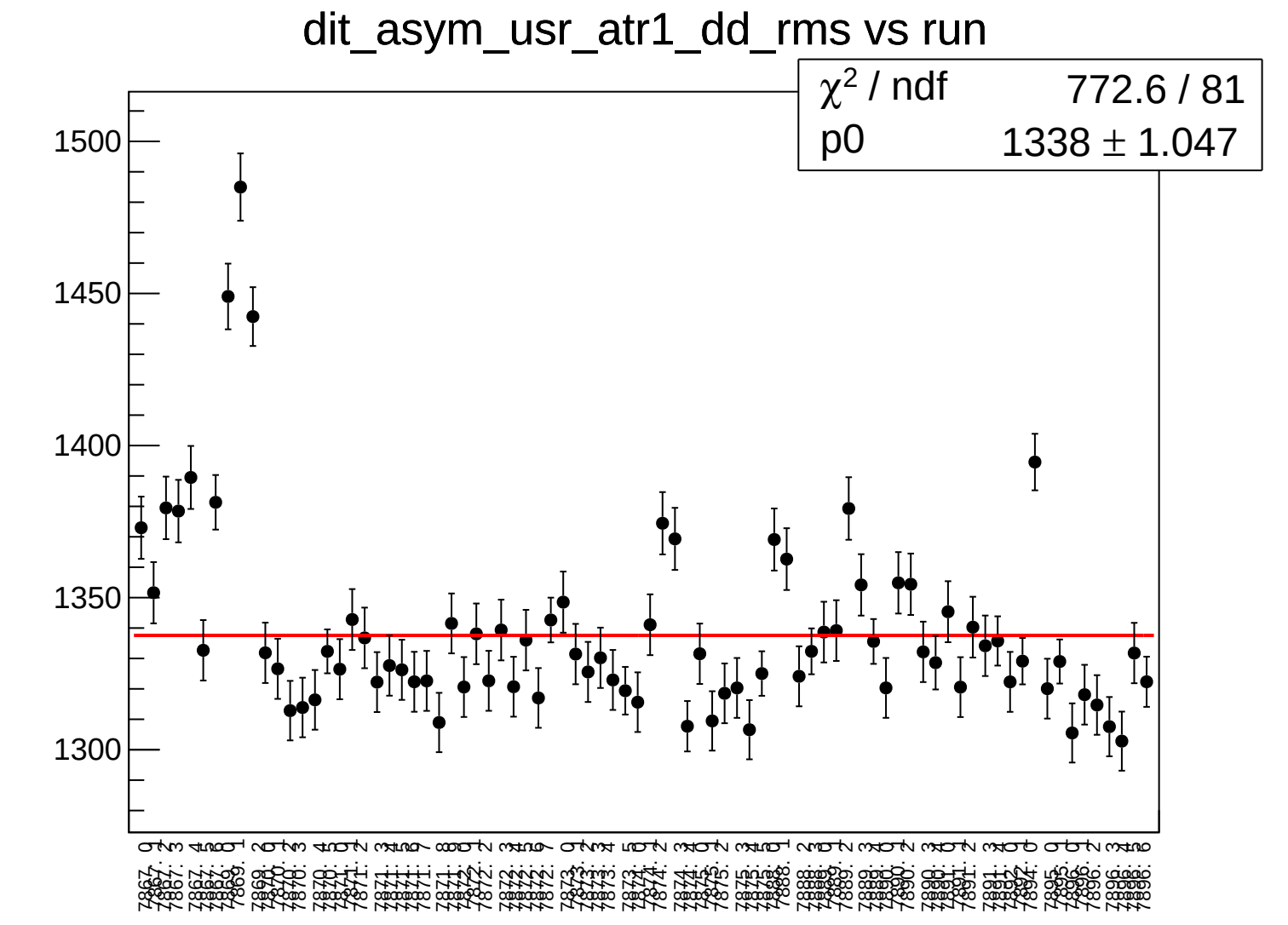

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.1 / 81
p0 −92.53 ± 1453
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 60.62
Std Dev 42.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

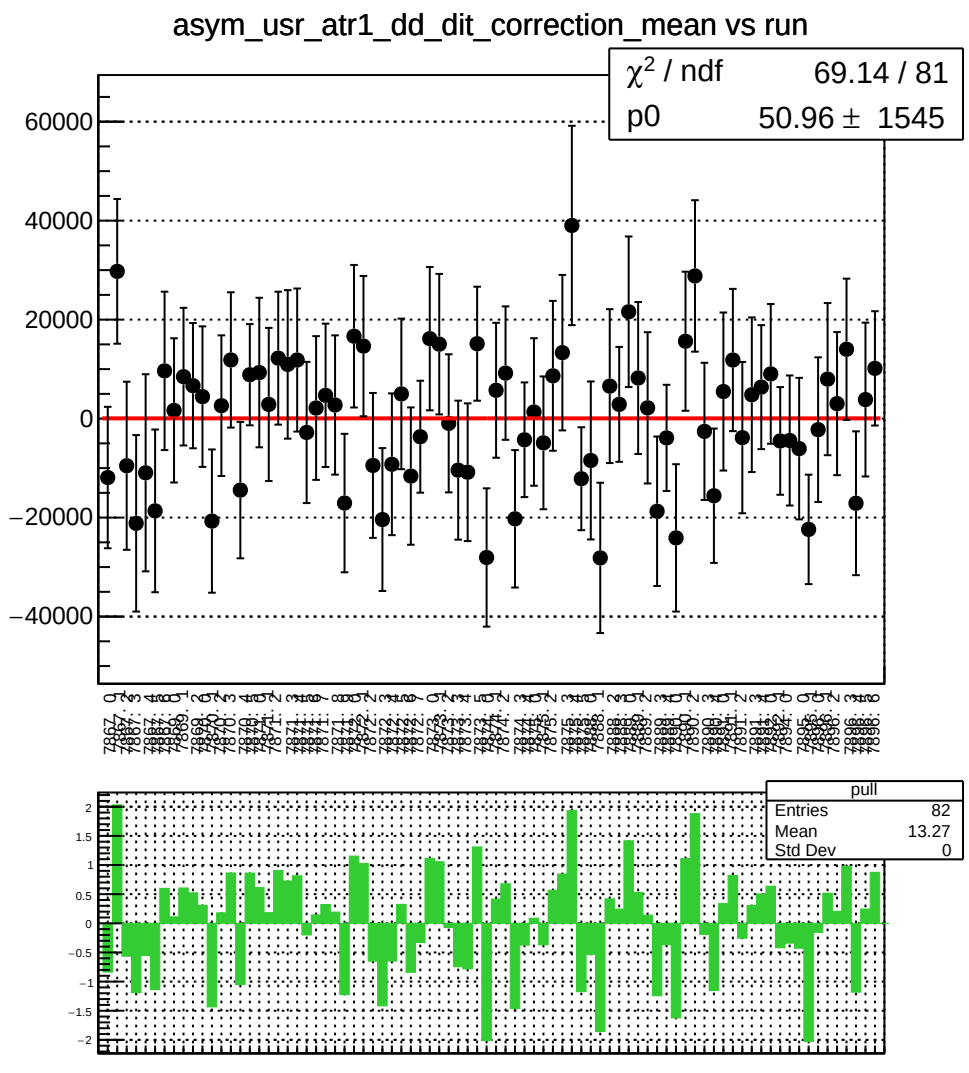

pull1D
Entries 82
Mean 0.006538
Std Dev 0.9179
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

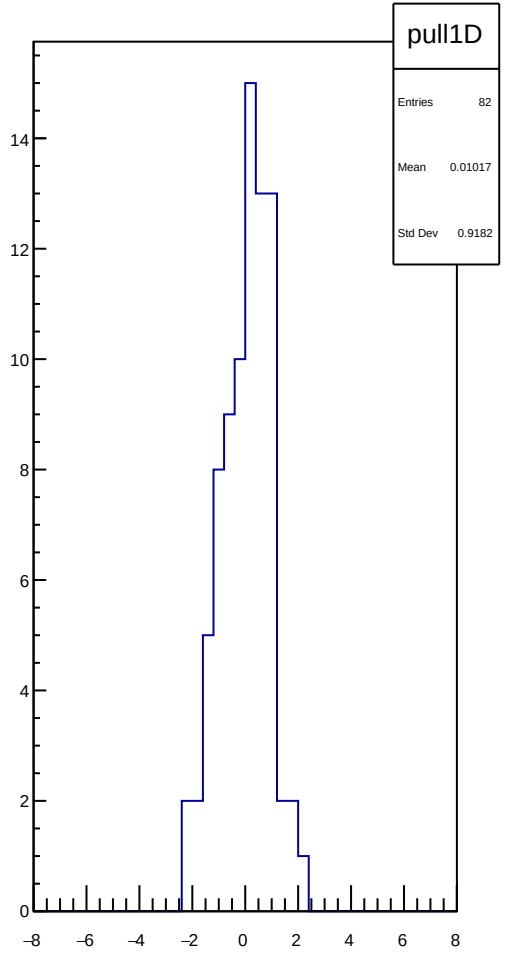

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.414e+04 / 81
p0 1307 ± 1.027
1800
1600
1400
1200
1000

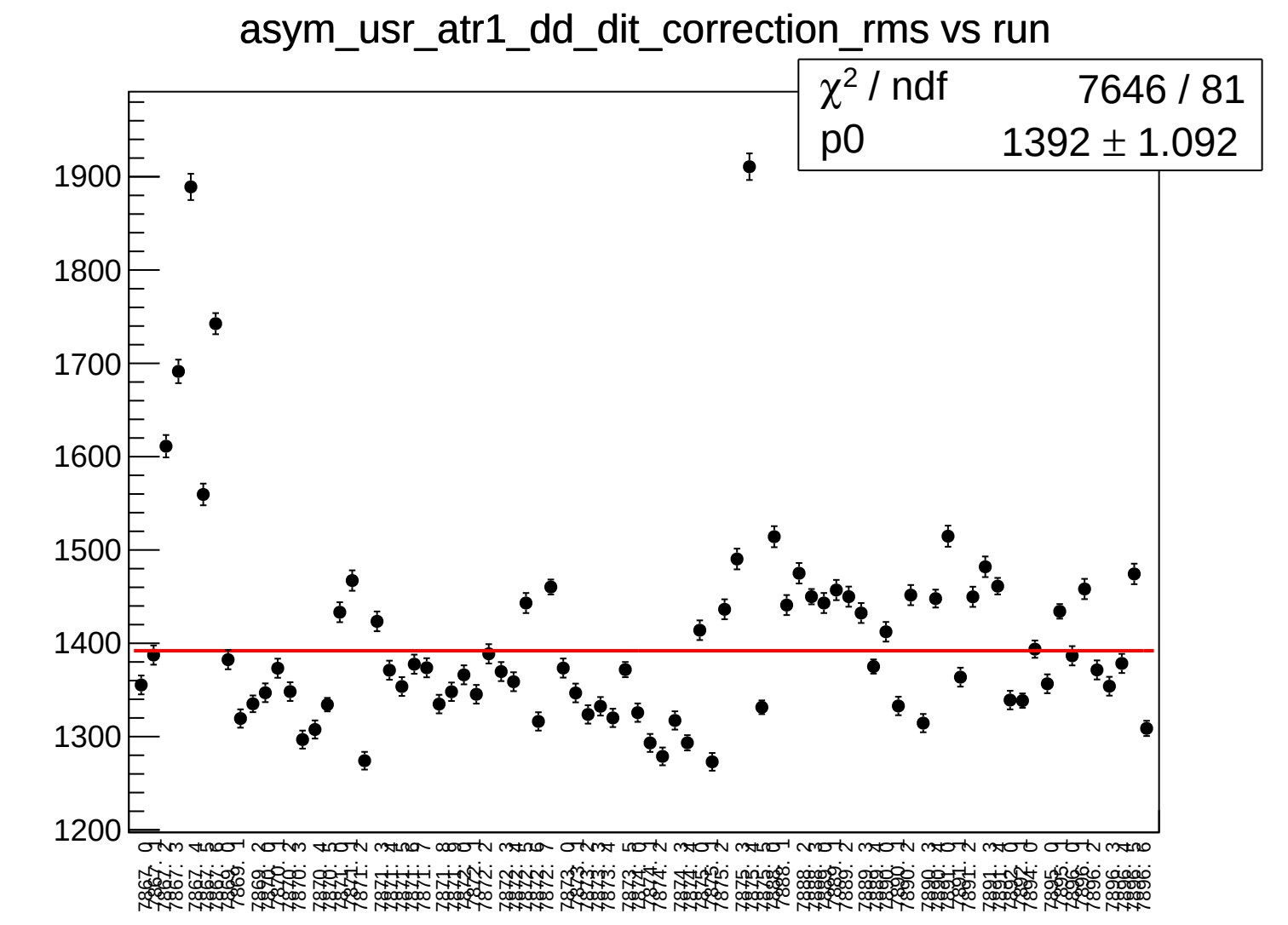

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 49.84 / 81
p0 2444 ± 1481
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1372
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

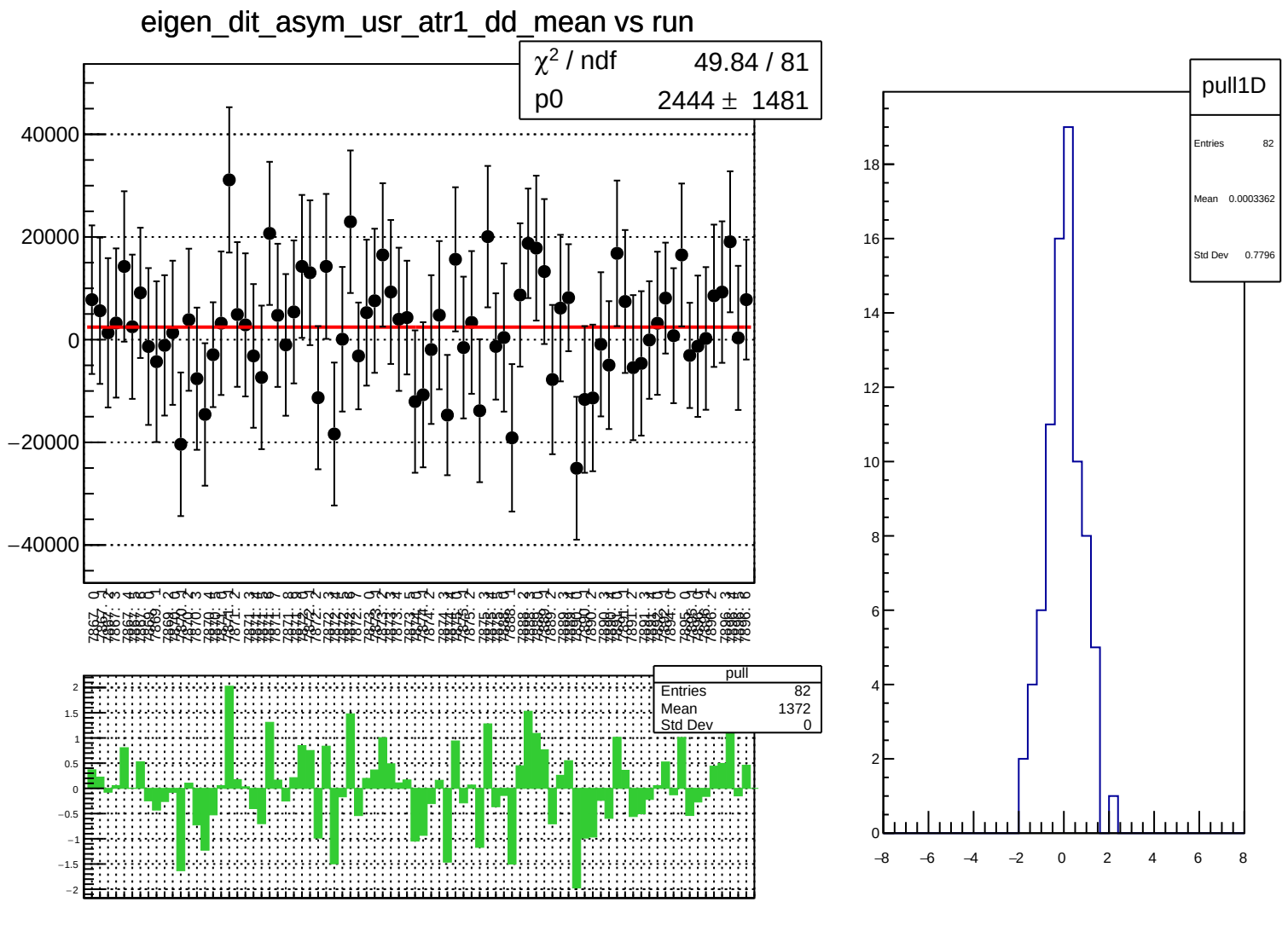

pull1D
Entries 82
Mean 0.0003362
Std Dev 0.7796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

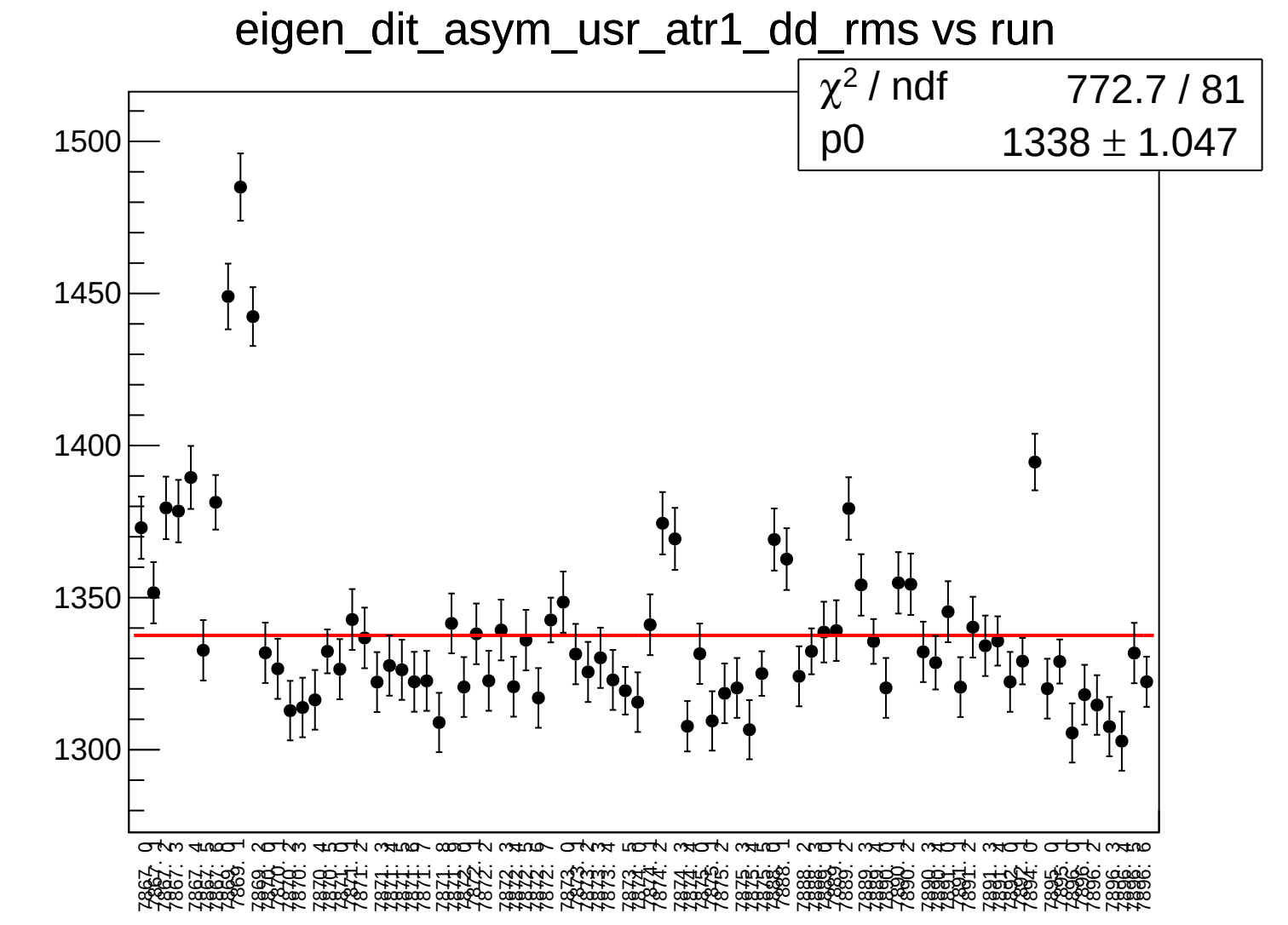

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 772.6 / 81
p0 1338 ± 1.047
1500
1450
1400
1350
1300

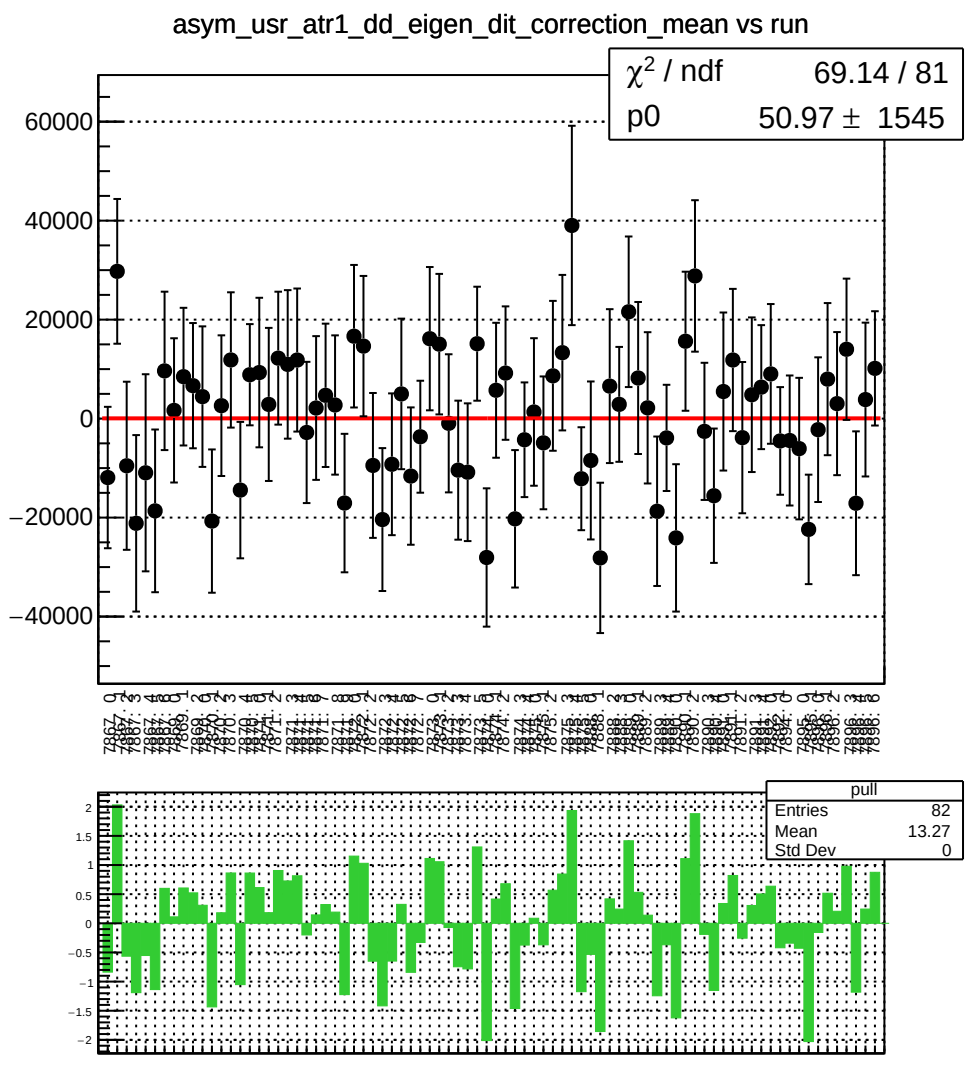

asym_usr_atr1_dd_dit_correction_mean vs run
χ^2 / ndf 69.14 / 81
p0 50.96 ± 1545
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 13.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

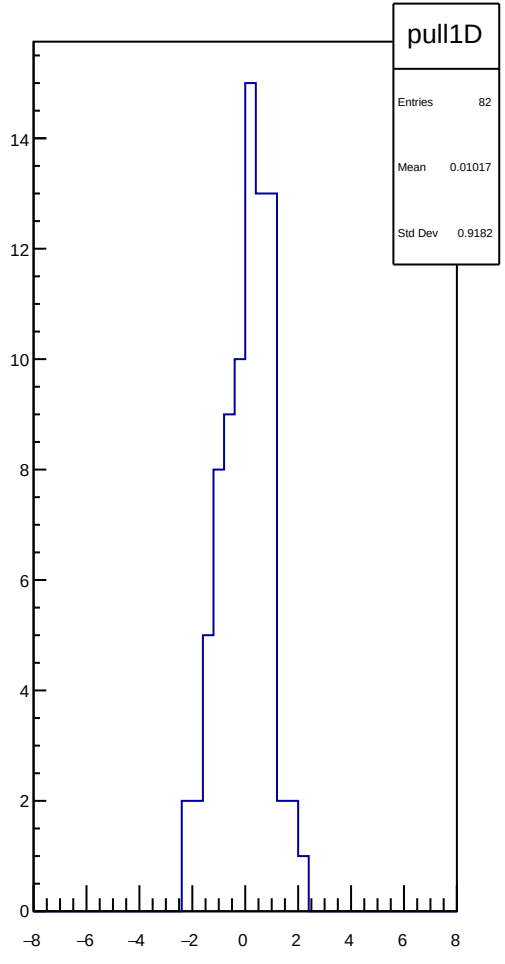

pull1D
Entries 82
Mean 0.01017
Std Dev 0.9182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

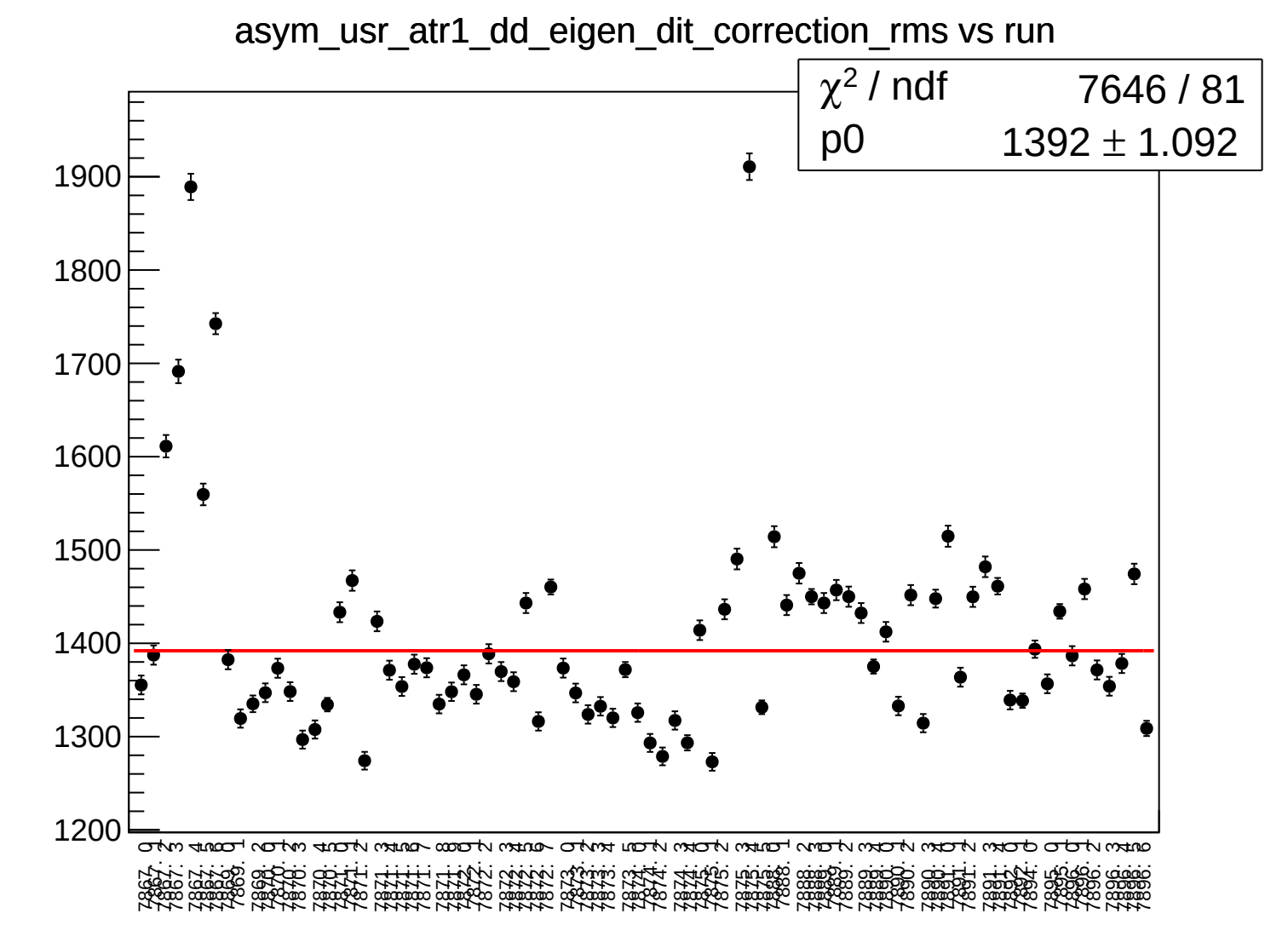

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 7646 / 81
p0 1392 ± 1.092
1900
1800
1700
1600
1500
1400
1300
1200

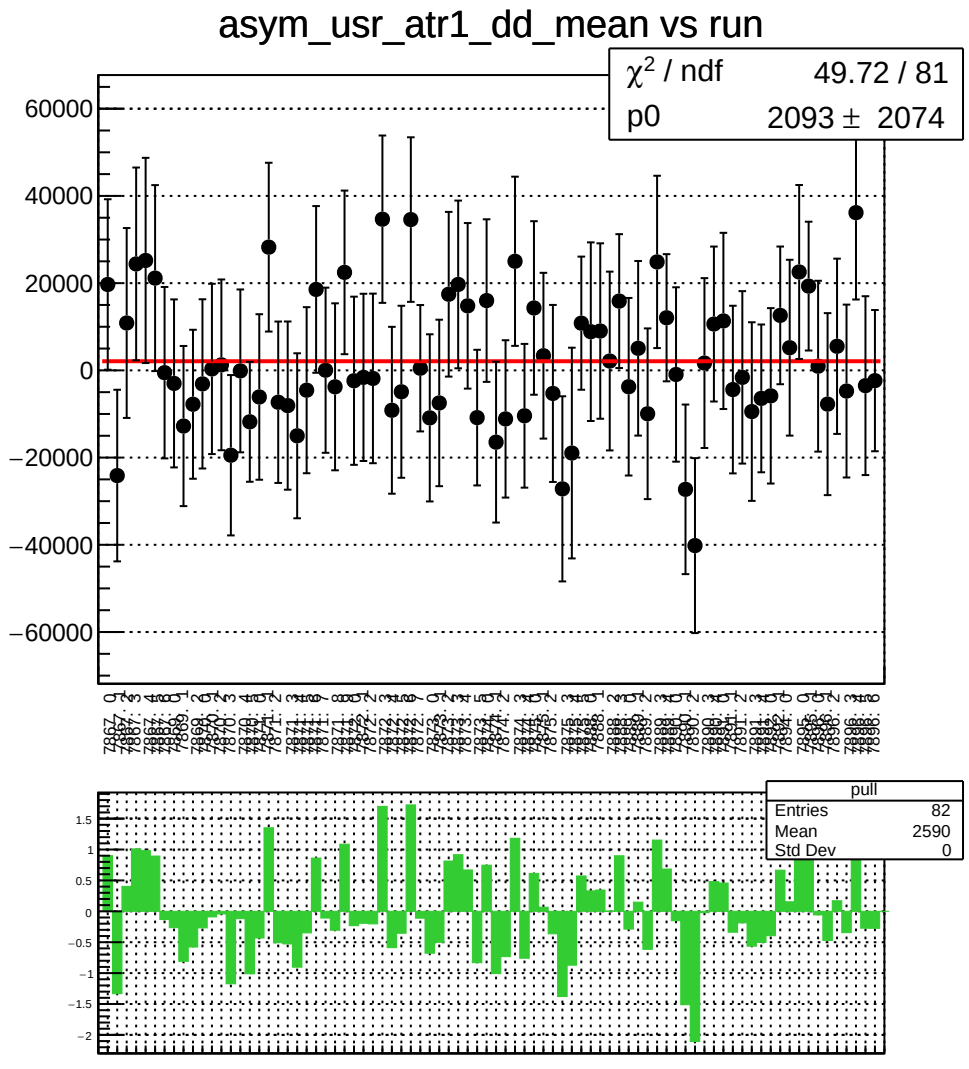

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 49.84 / 81
p0 2444 ± 1481
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1372
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.0003362
Std Dev 0.7796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

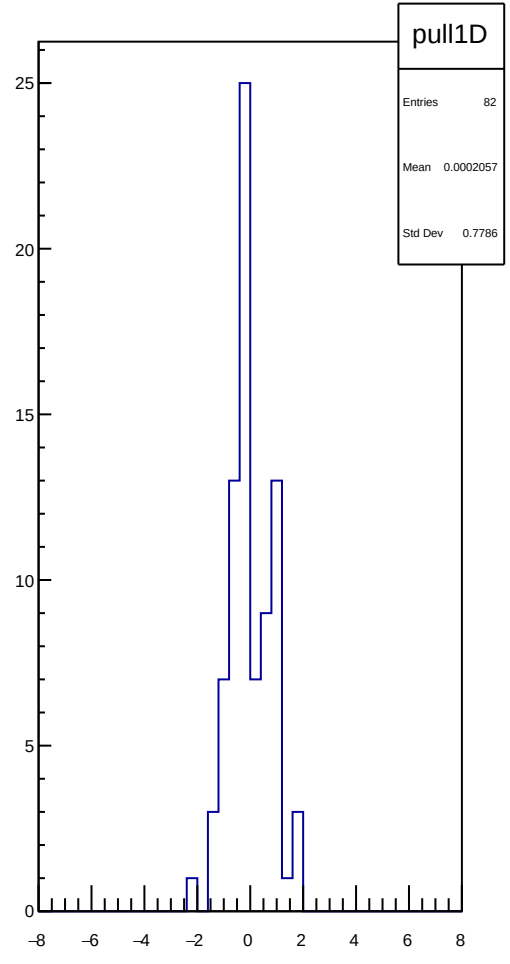

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 772.7 / 81
p0 1338 ± 1.047
1500
1450
1400
1350
1300

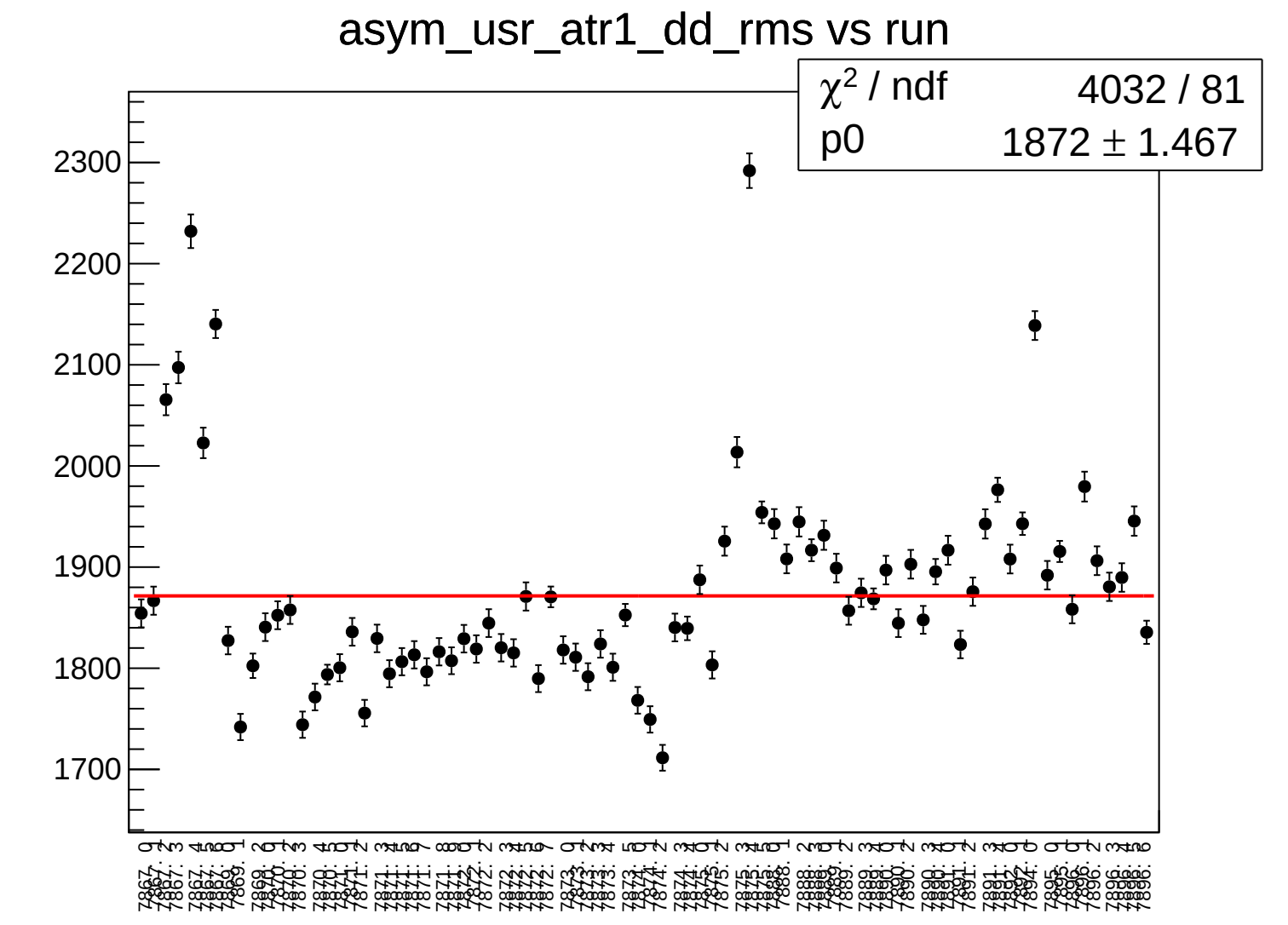

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.14 / 81
p0 50.97 ± 1545
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 13.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

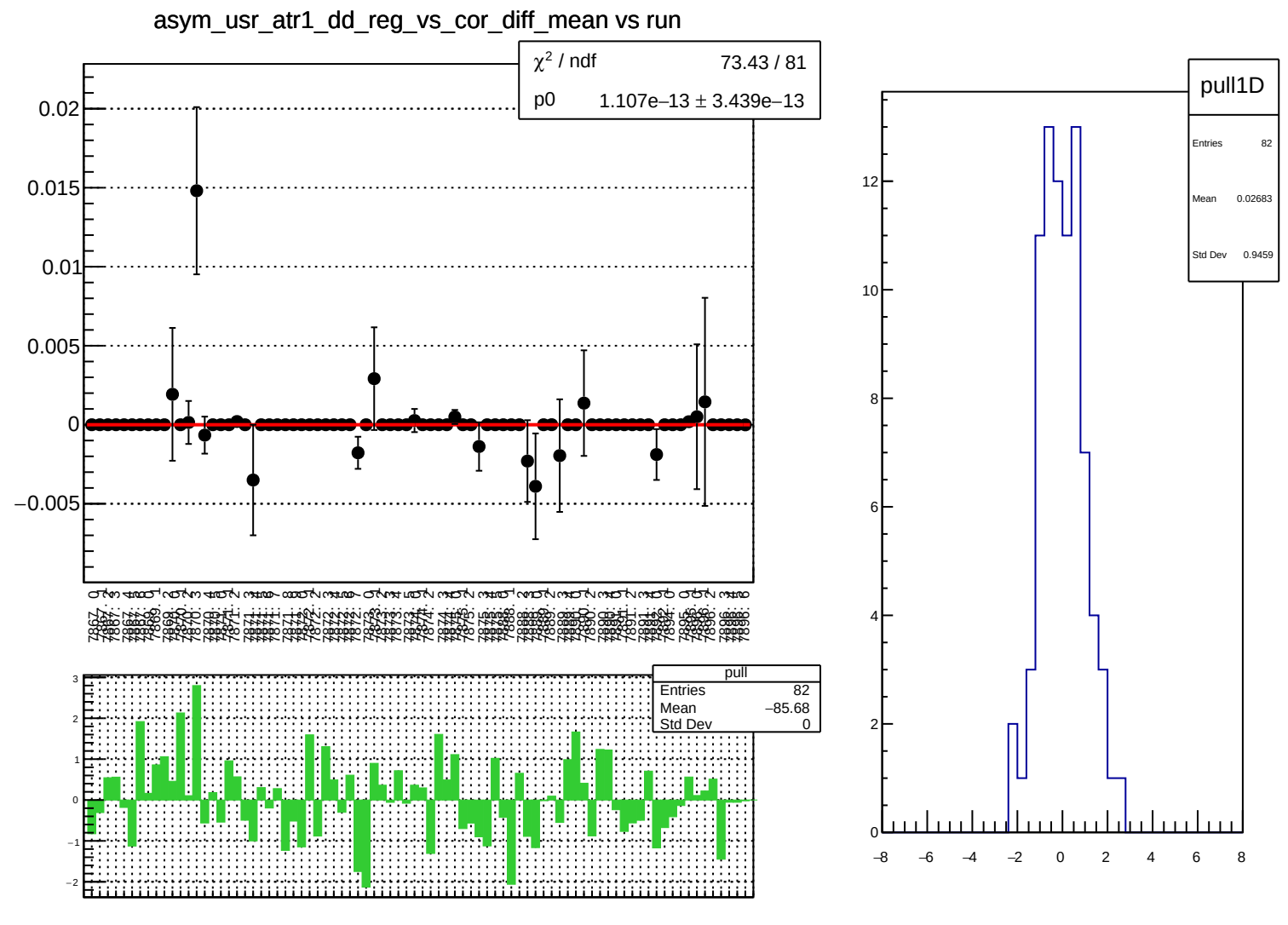

pull1D
Entries 82
Mean 0.01017
Std Dev 0.9182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

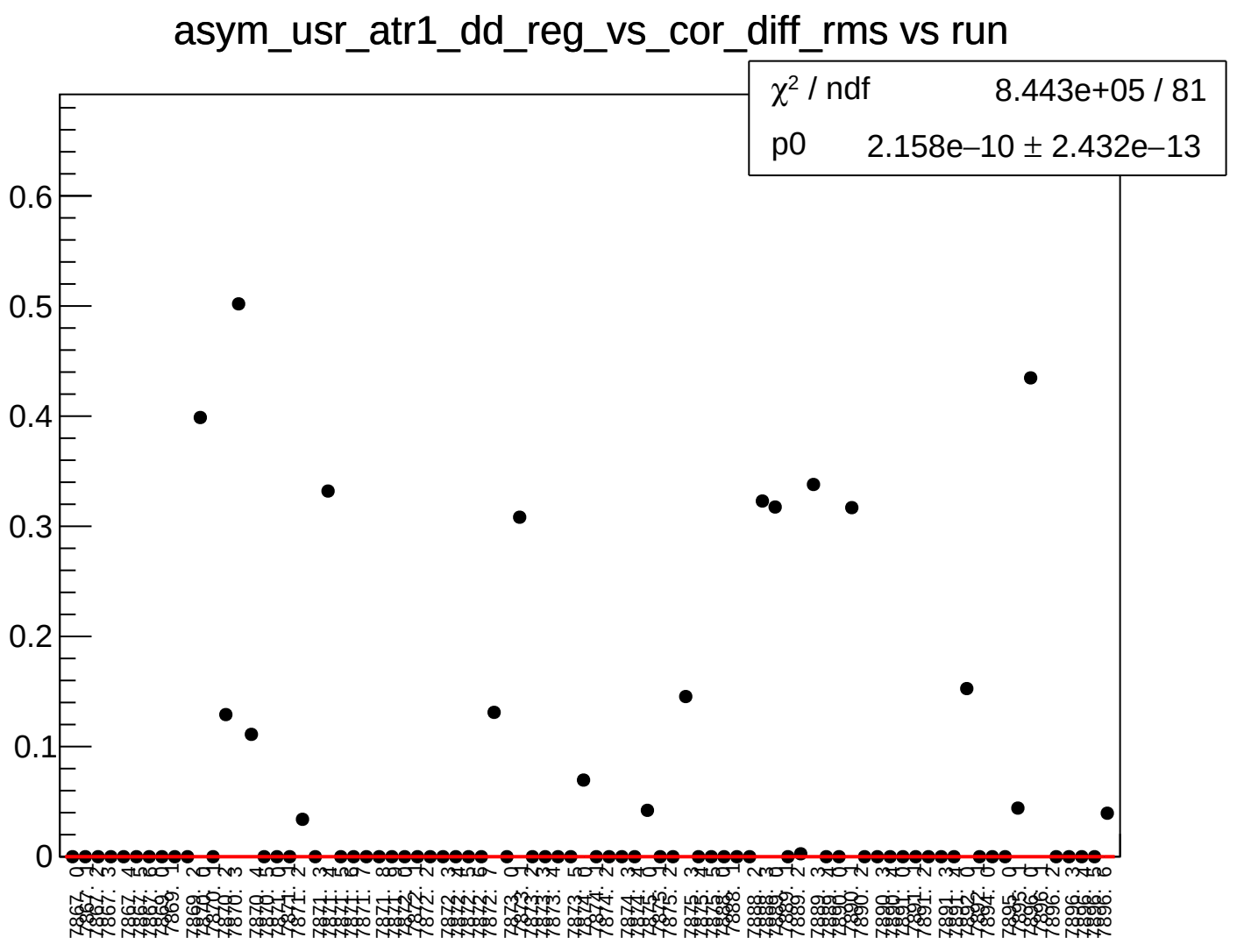

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 7646 / 81
p0 1392 ± 1.092
1900
1800
1700
1600
1500
1400
1300
1200

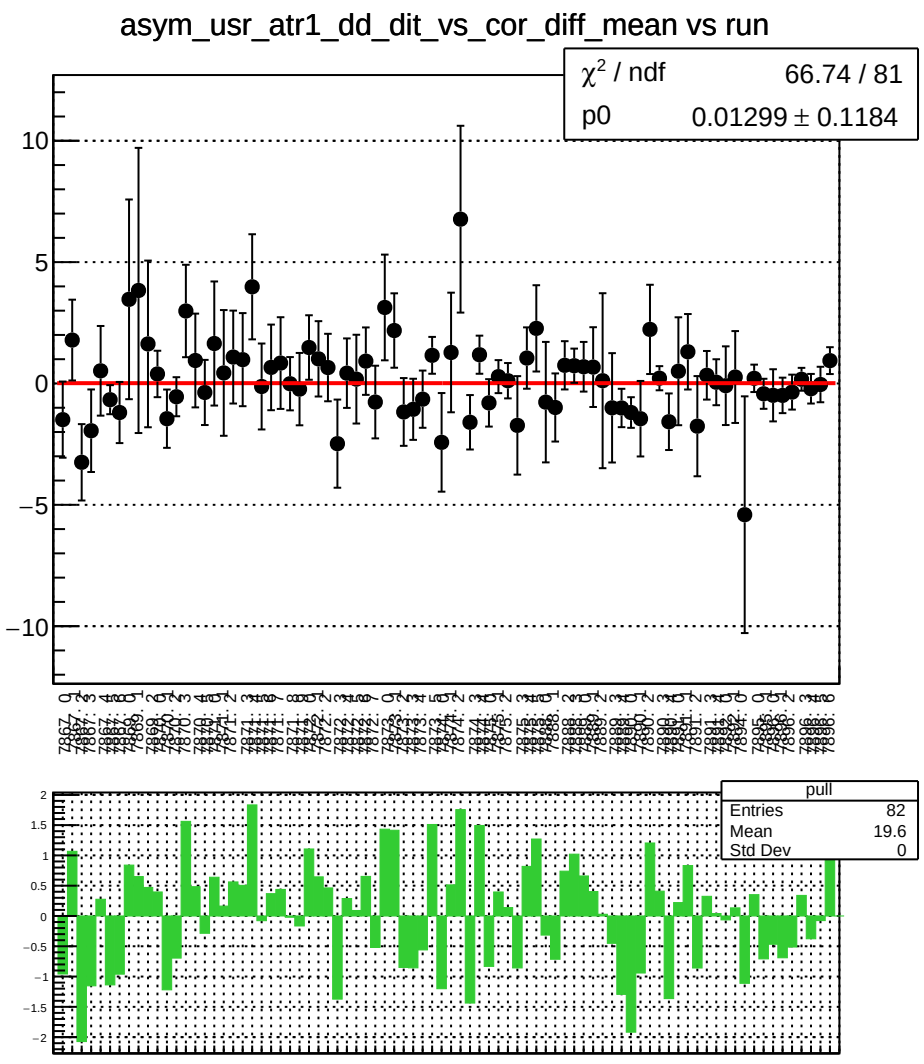

asym_usr_atr1_dd_mean vs run
χ^2 / ndf 49.72 / 81
p0 2093 ± 2074
pull
Entries 82
Mean 2590
Std Dev 0

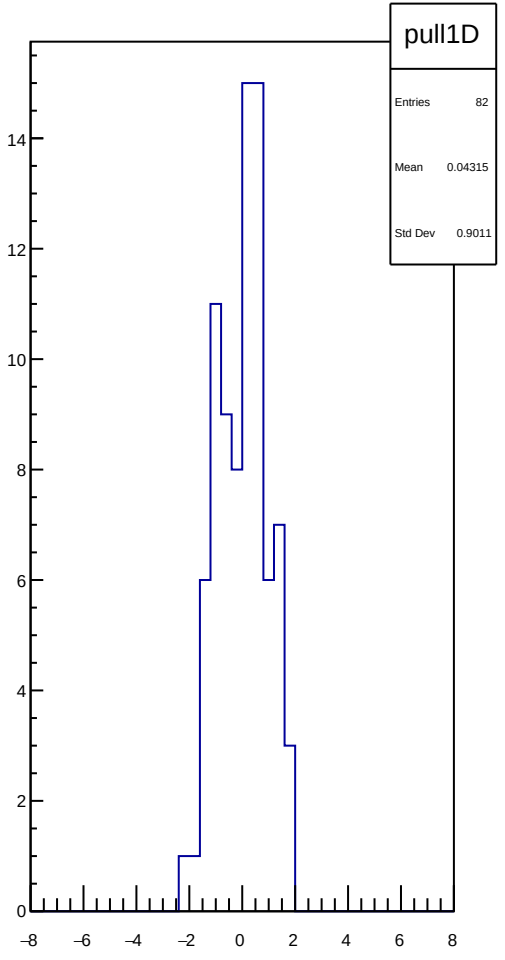

pull1D
Entries 82
Mean 0.0002057
Std Dev 0.7786

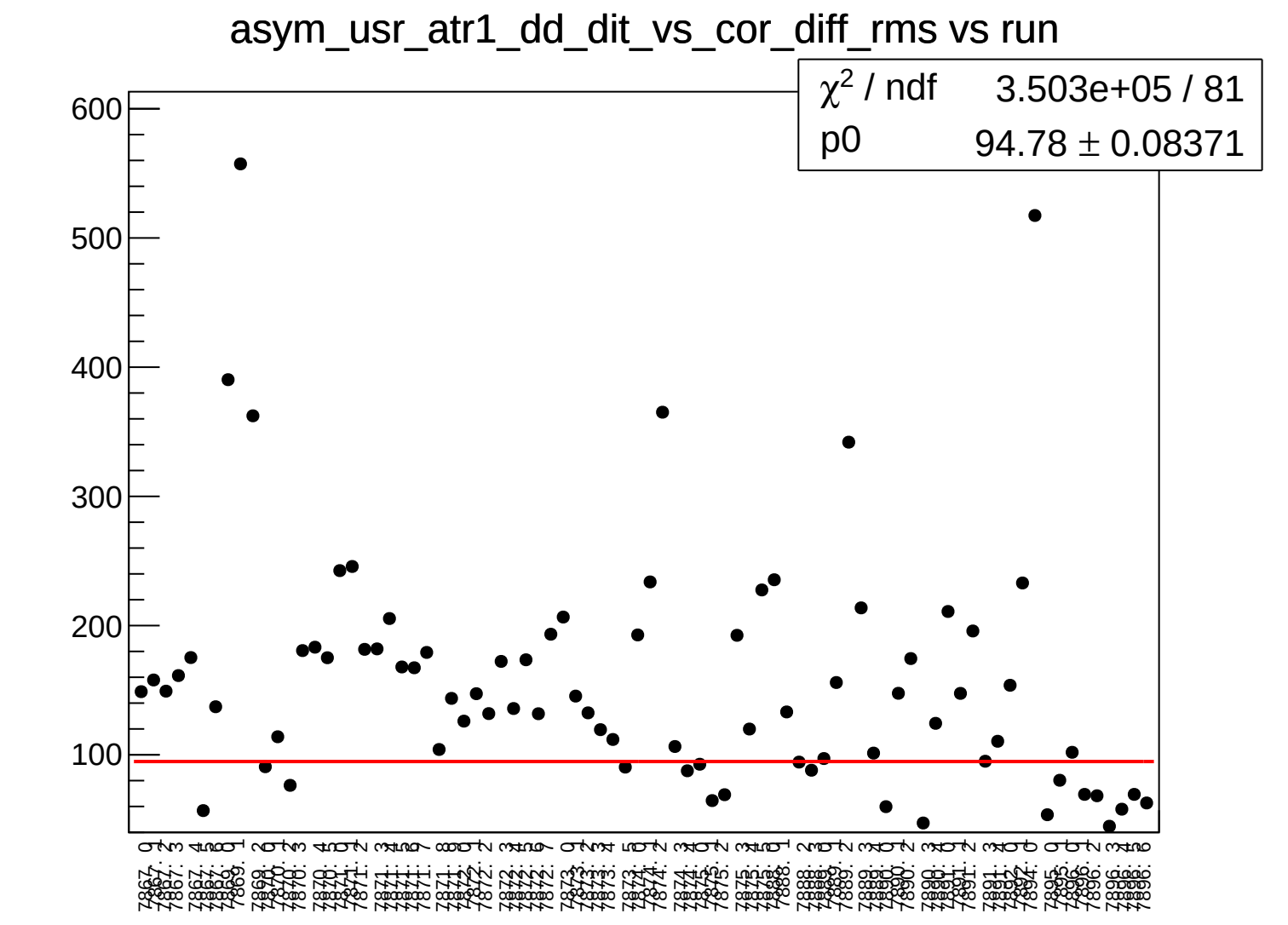

asym_usr_atr1_dd_rms vs run
χ² / ndf 4032 / 81
p0 1872 ± 1.467
2300
2200
2100
2000
1900
1800
1700

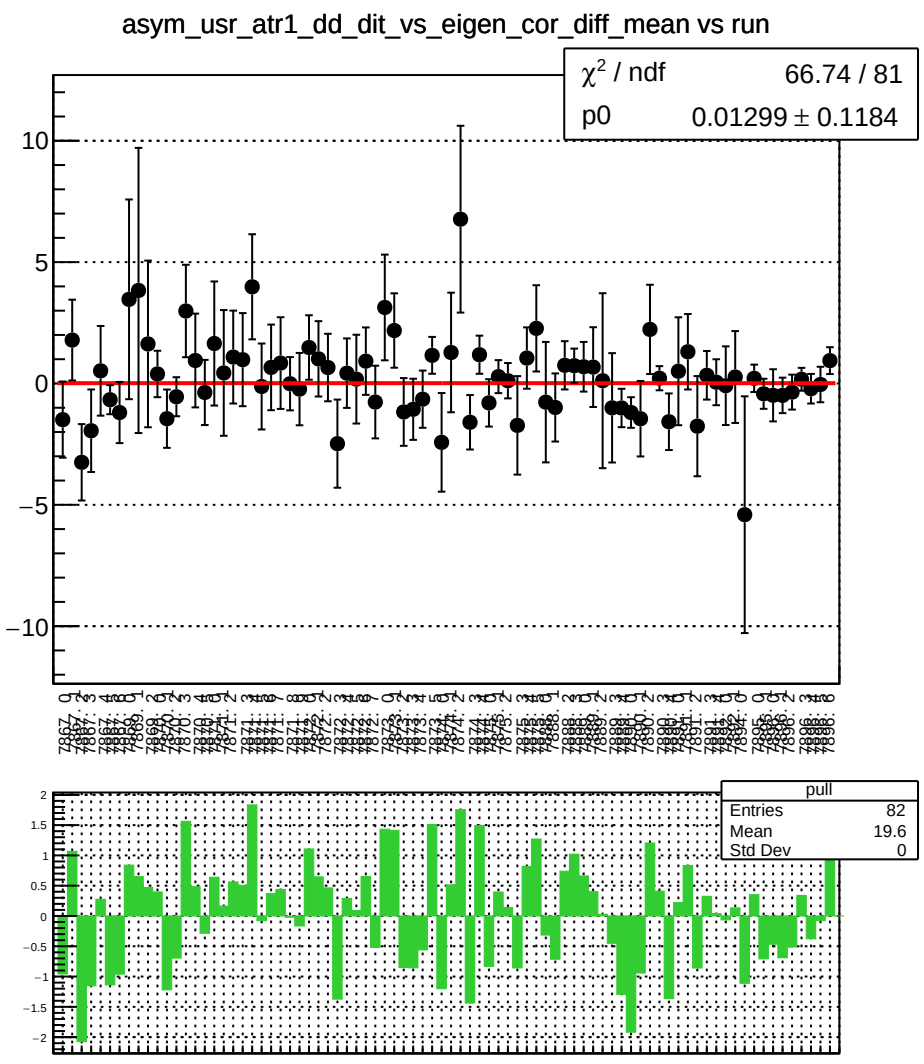

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.43 / 81
p0 1.107e−13 ± 3.439e−13
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 82
Mean −85.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.02683
Std Dev 0.9459
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

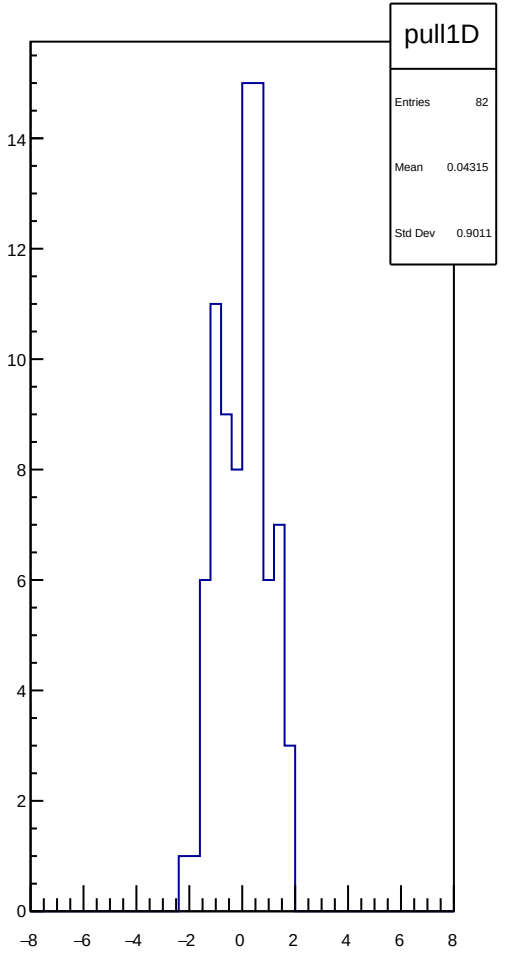

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.443e+05 / 81
p0 2.158e−10 ± 2.432e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

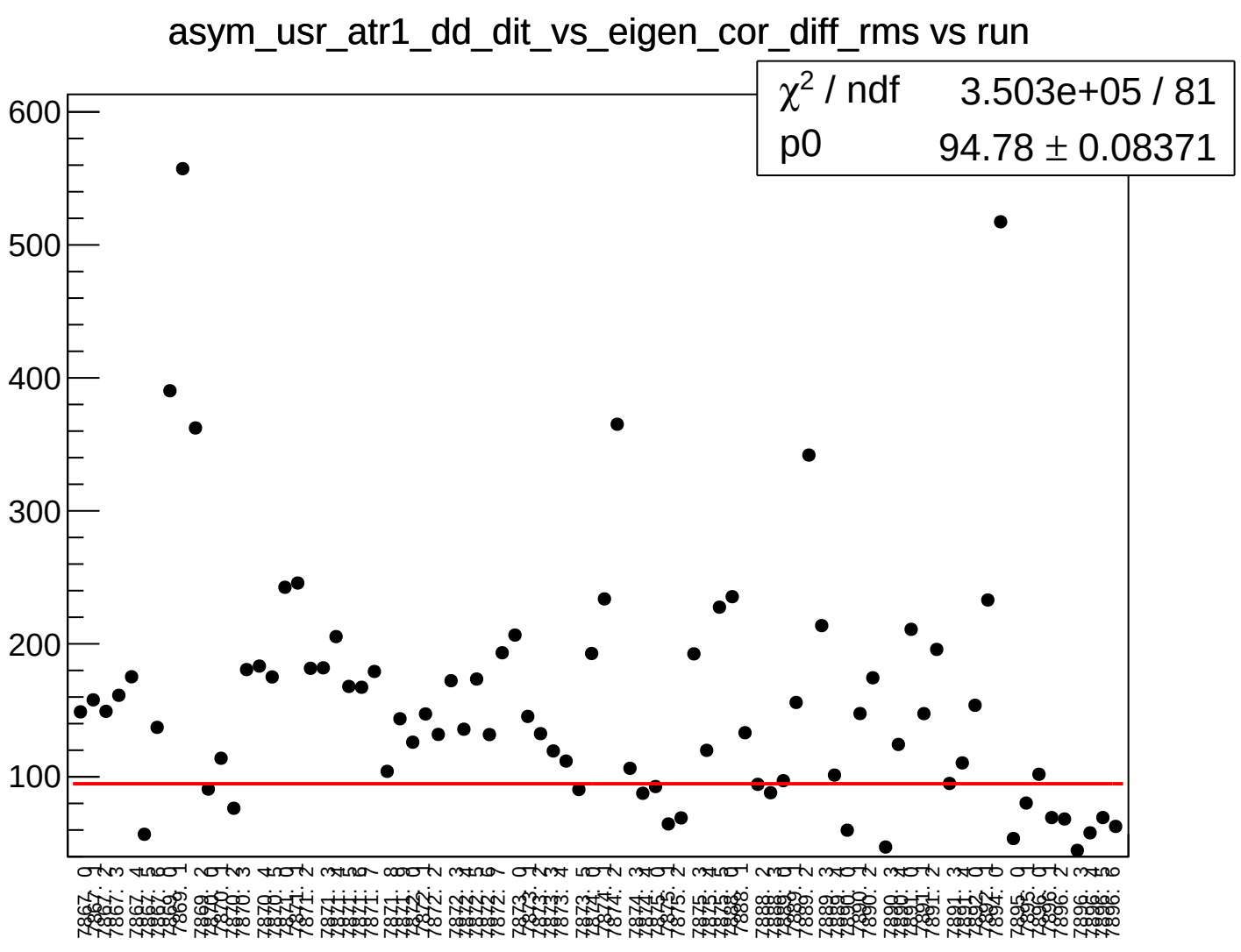

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.74 / 81
p0 0.01299 ± 0.1184
pull
Entries 82
Mean 19.6
Std Dev 0

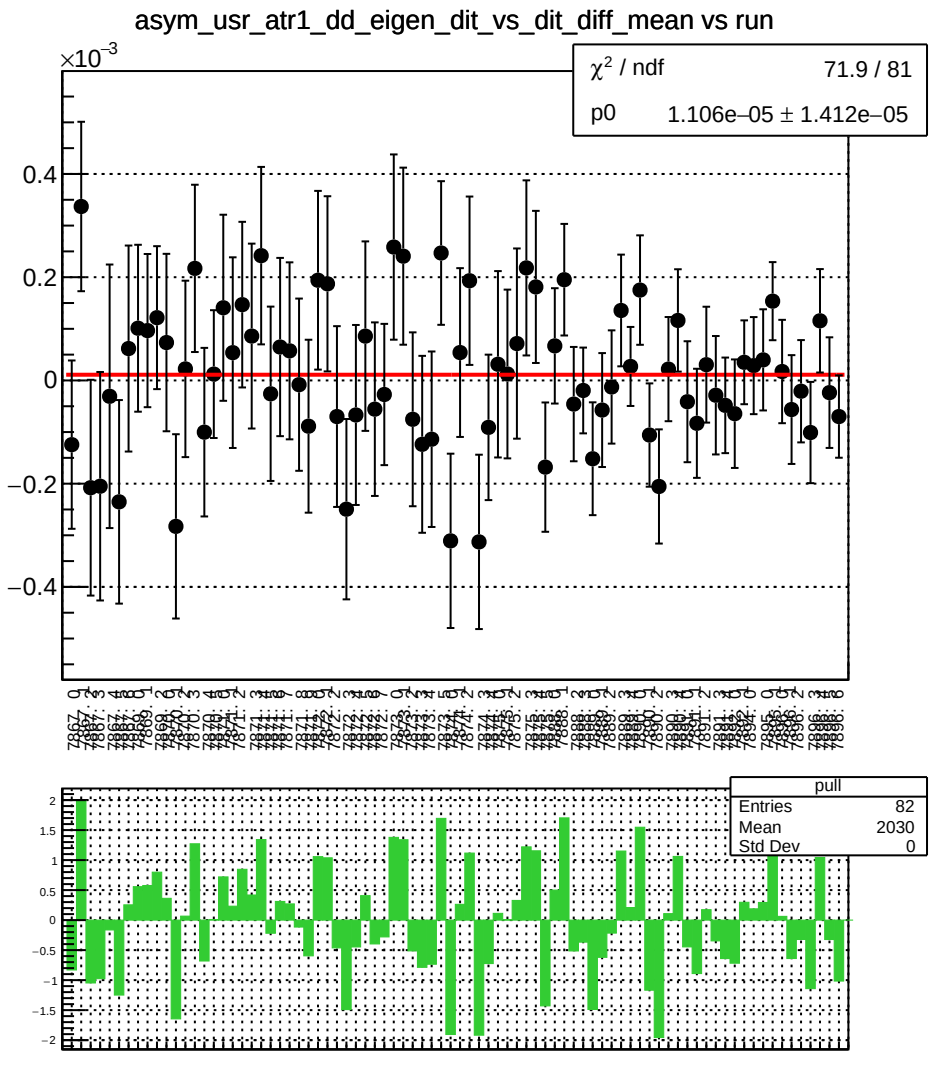

pull1D
Entries 82
Mean 0.04315
Std Dev 0.9011

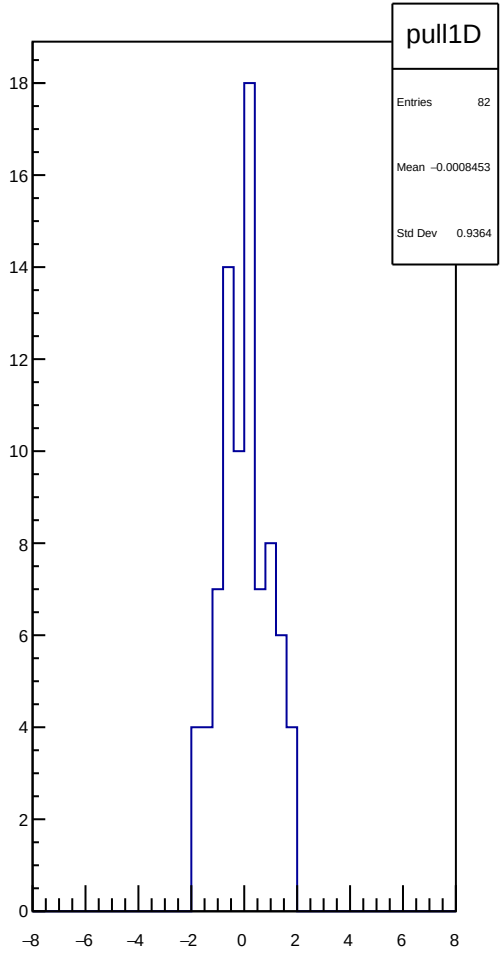

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.503e+05 / 81
p0 94.78 ± 0.08371
600
500
400
300
200
100

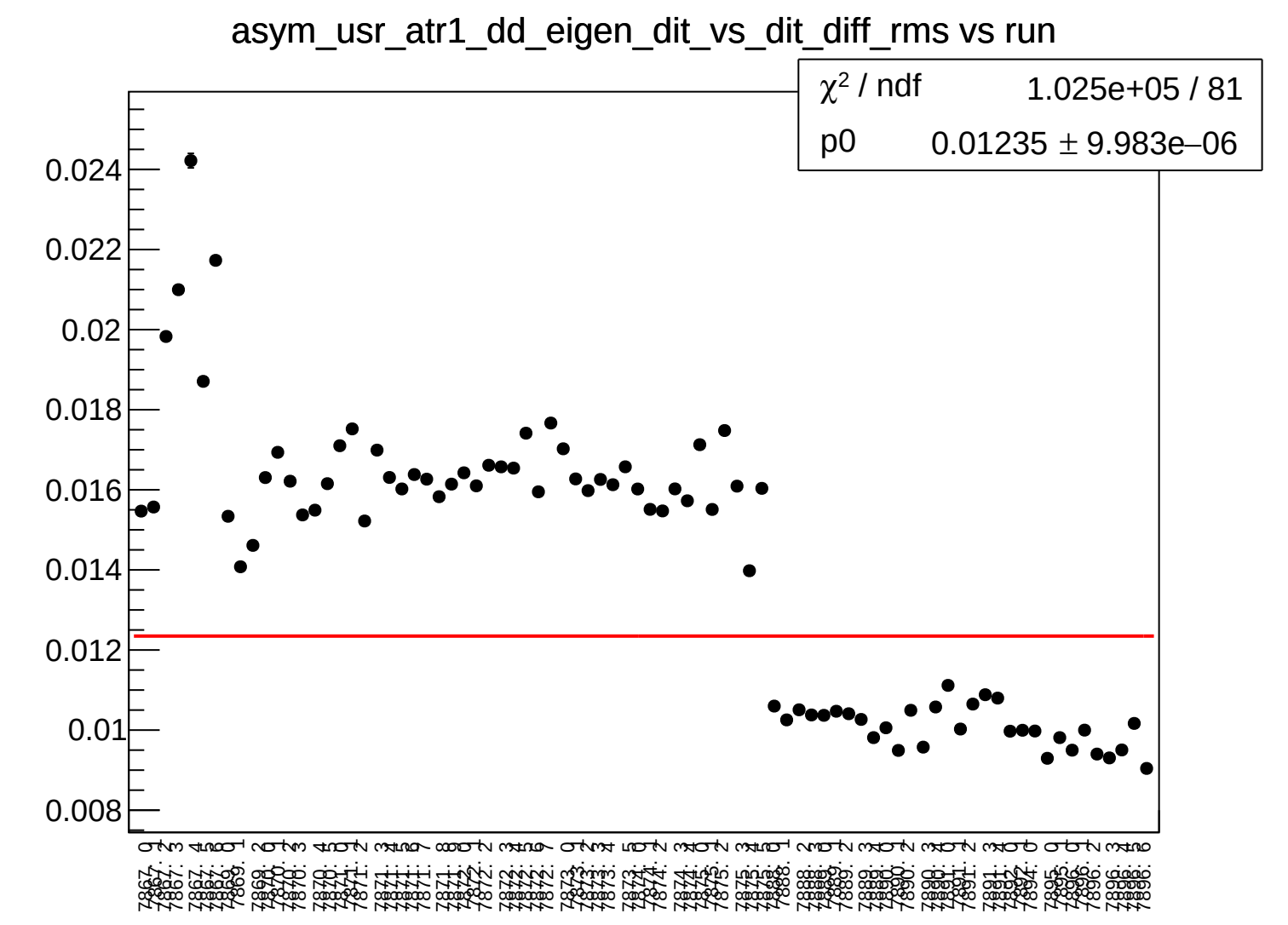

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.74 / 81
p0 0.01299 ± 0.1184
pull
Entries 82
Mean 19.6
Std Dev 0

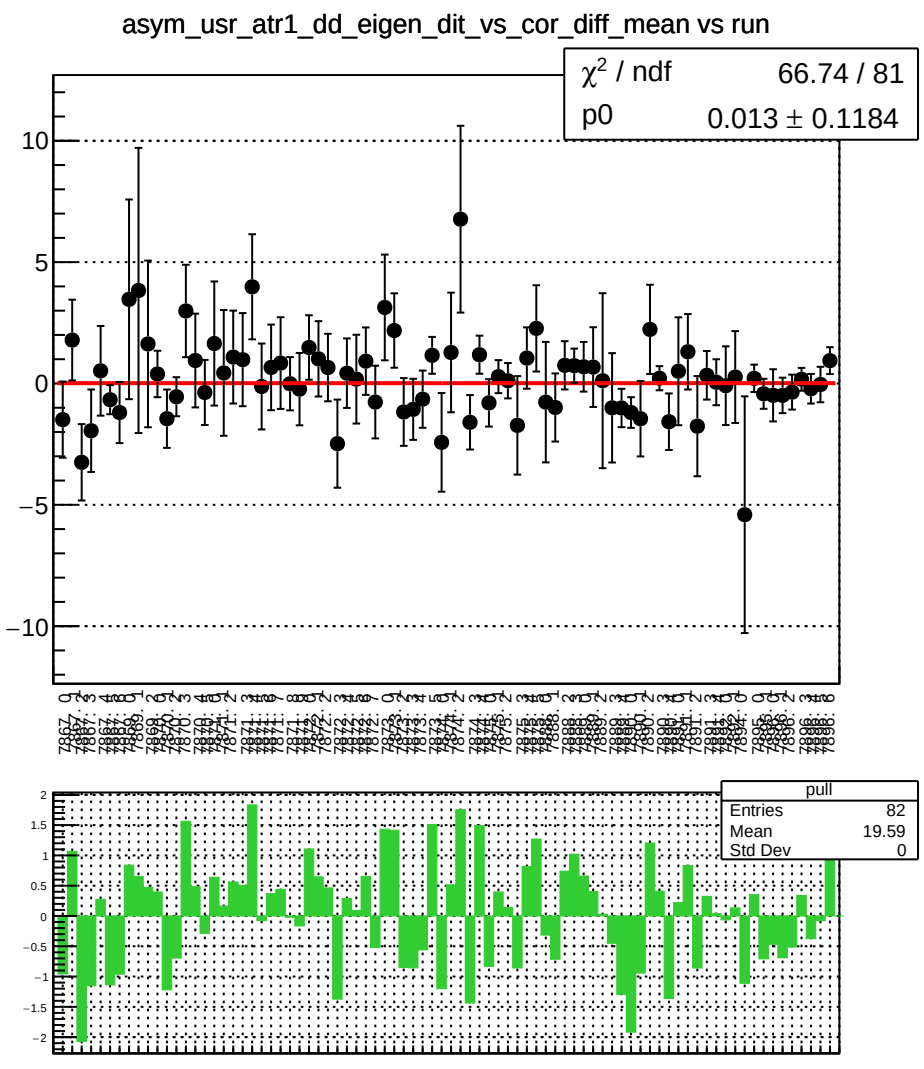

pull1D
Entries 82
Mean 0.04315
Std Dev 0.9011

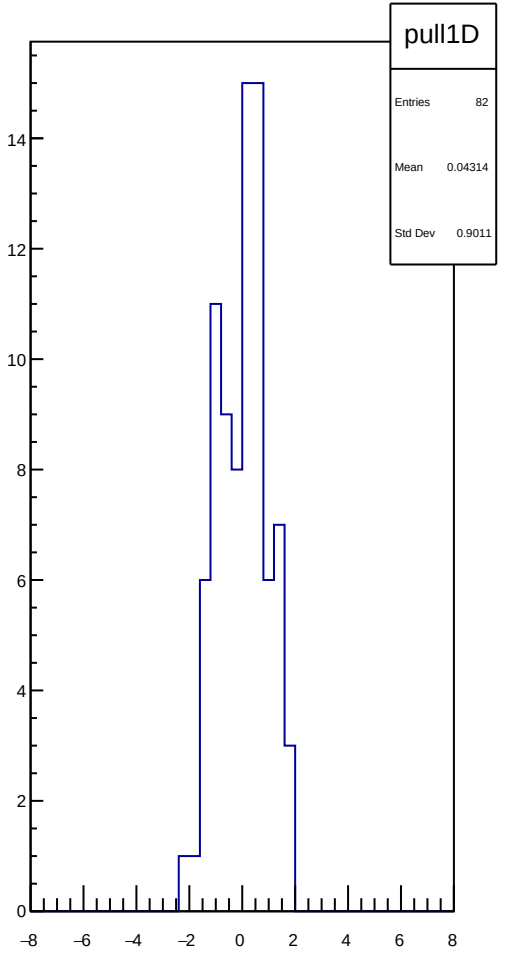

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.503e+05 / 81
p0 94.78 ± 0.08371
600
500
400
300
200
100

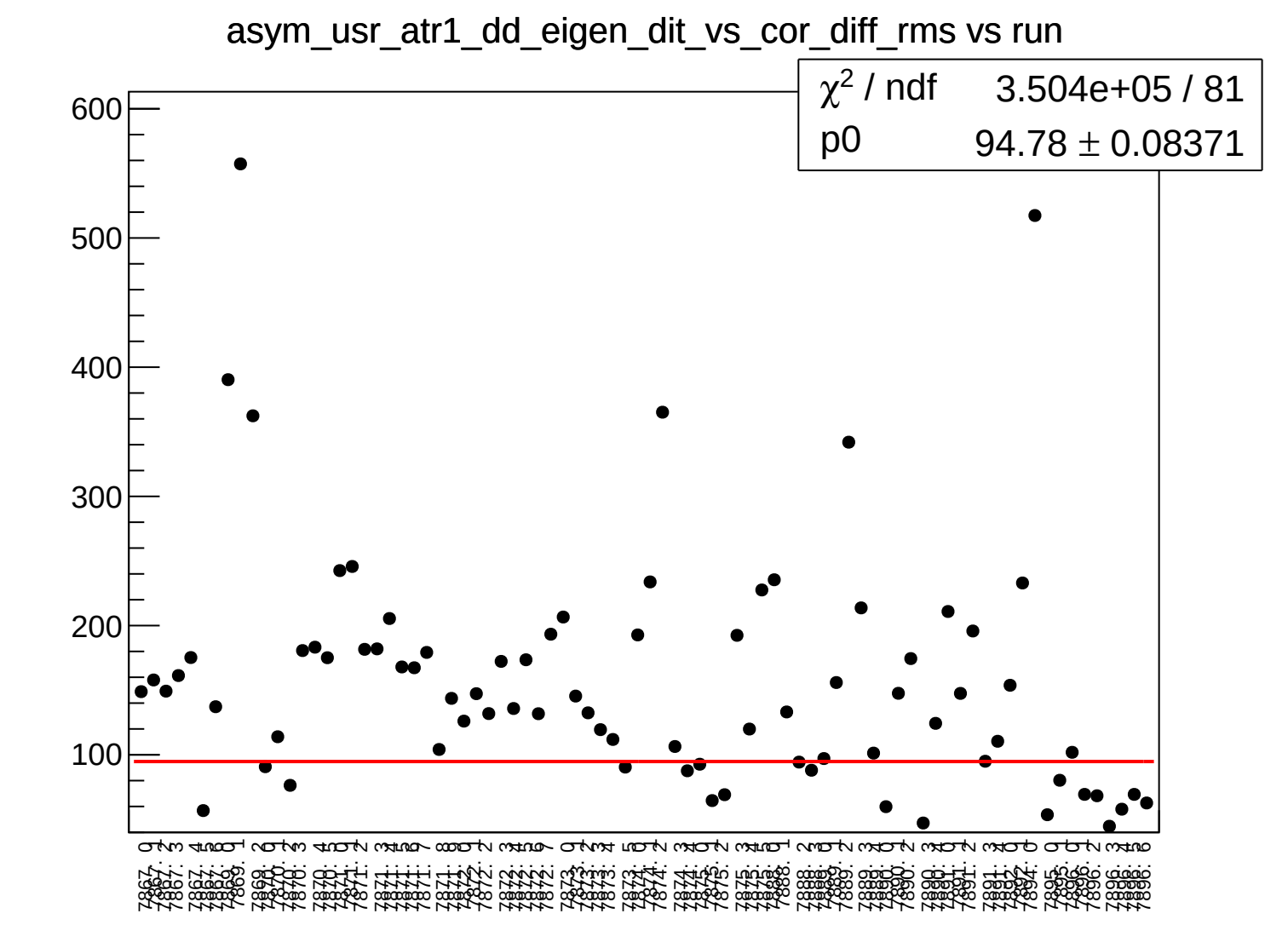

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.9 / 81
p0 1.106e−05 ± 1.412e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean 2030
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

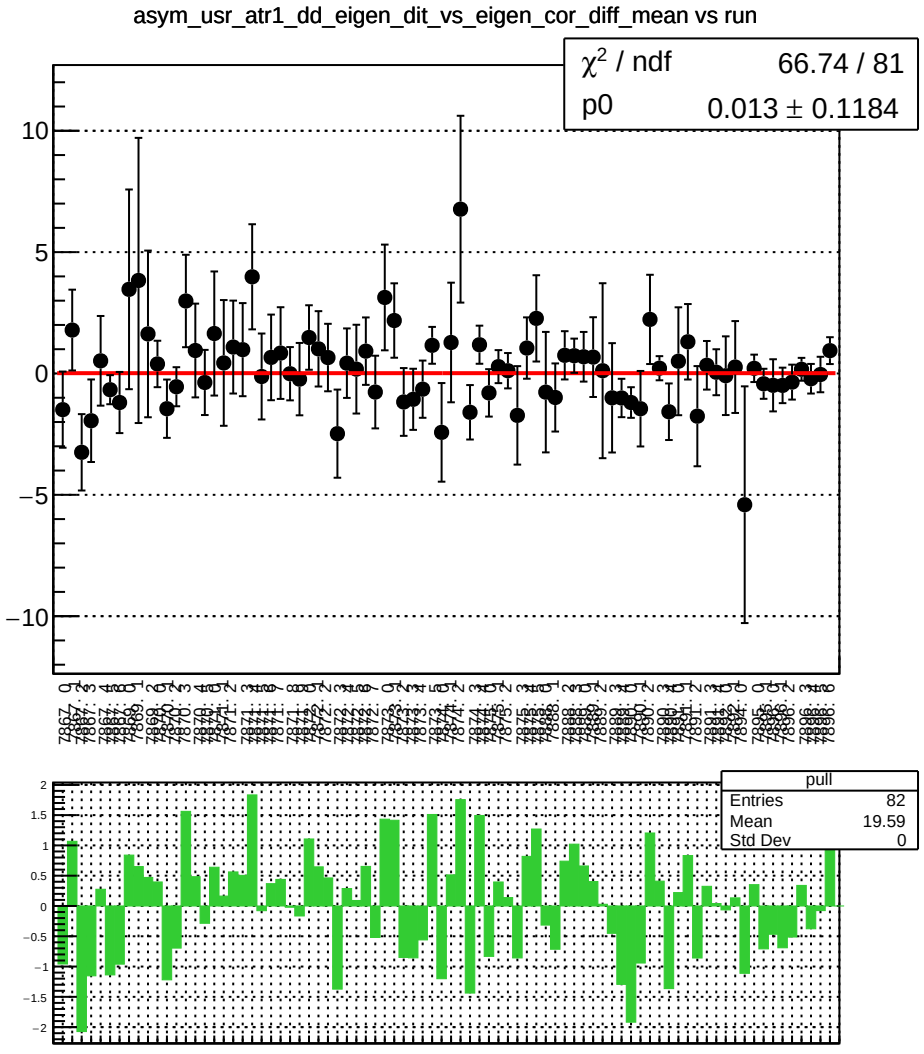

pull1D
Entries 82
Mean −0.0008453
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

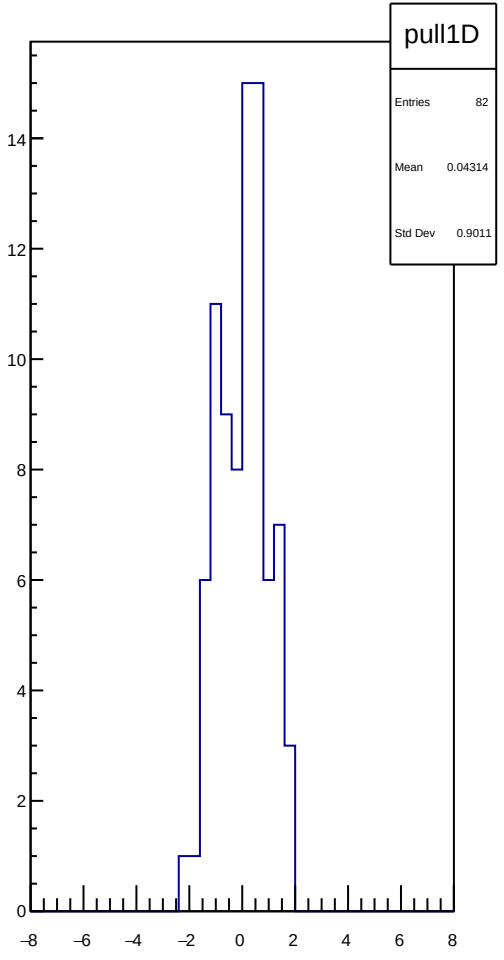

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.025e+05 / 81
p0 0.01235 ± 9.983e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

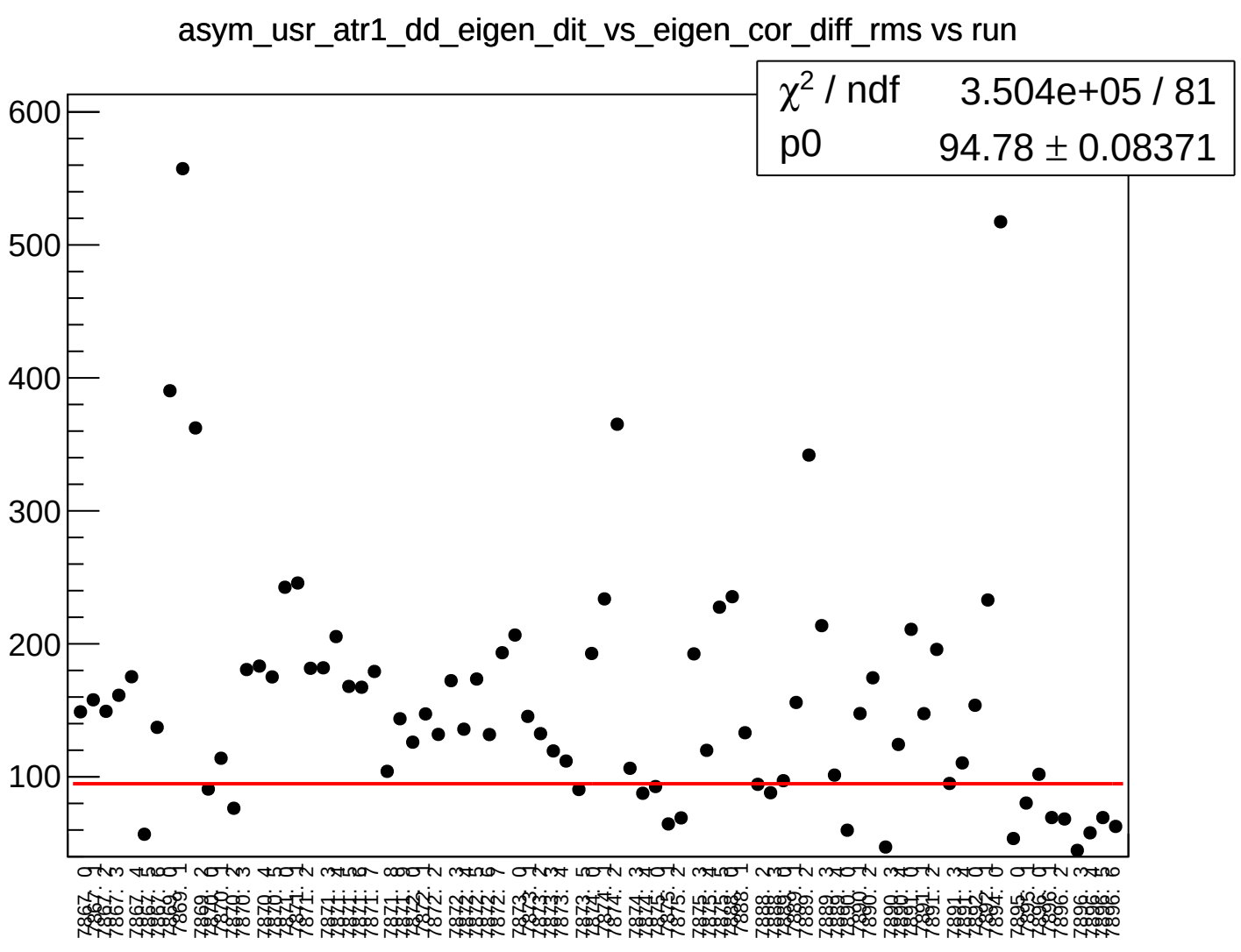

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.74 / 81
p0 0.013 ± 0.1184
pull
Entries 82
Mean 19.59
Std Dev 0

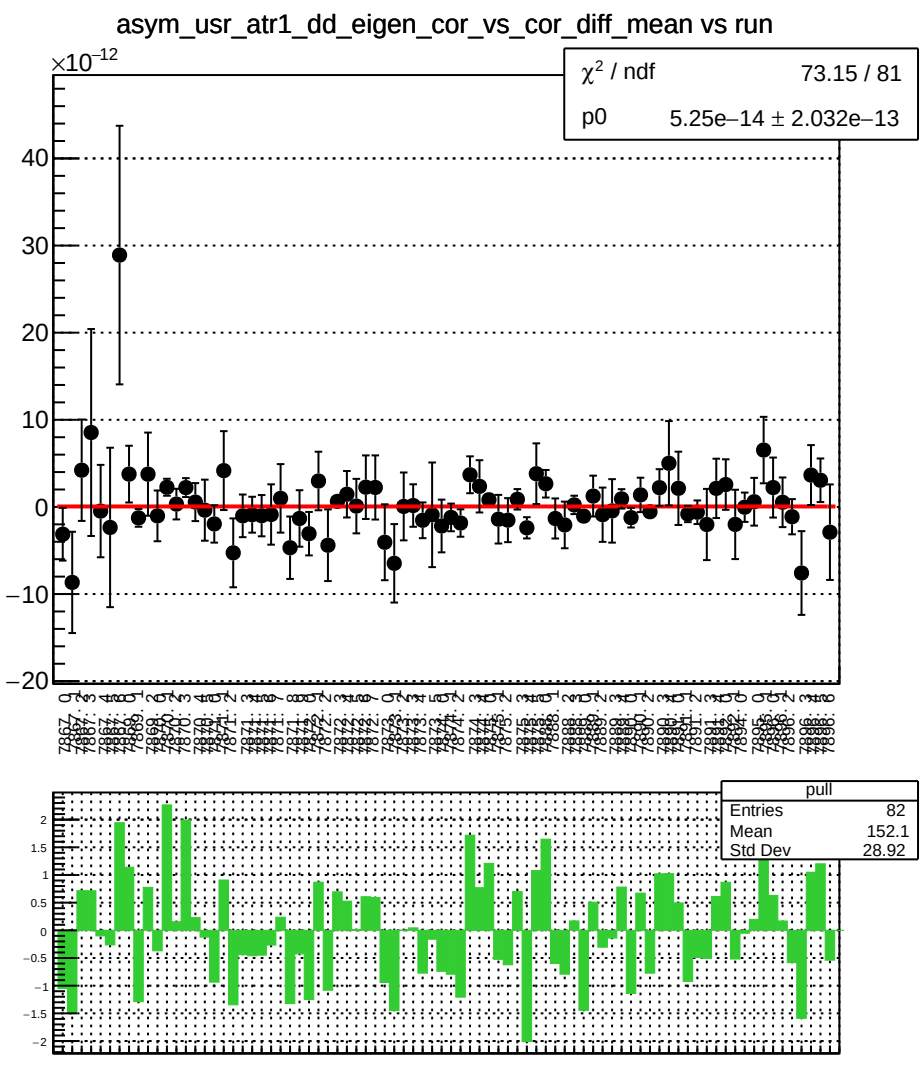

pull1D
Entries 82
Mean 0.04314
Std Dev 0.9011

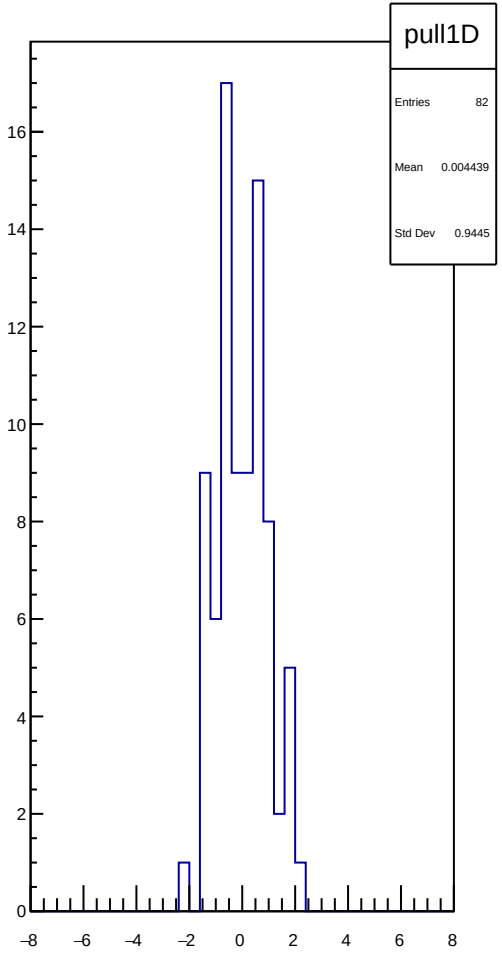

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.504e+05 / 81
p0 94.78 ± 0.08371
600
500
400
300
200
100

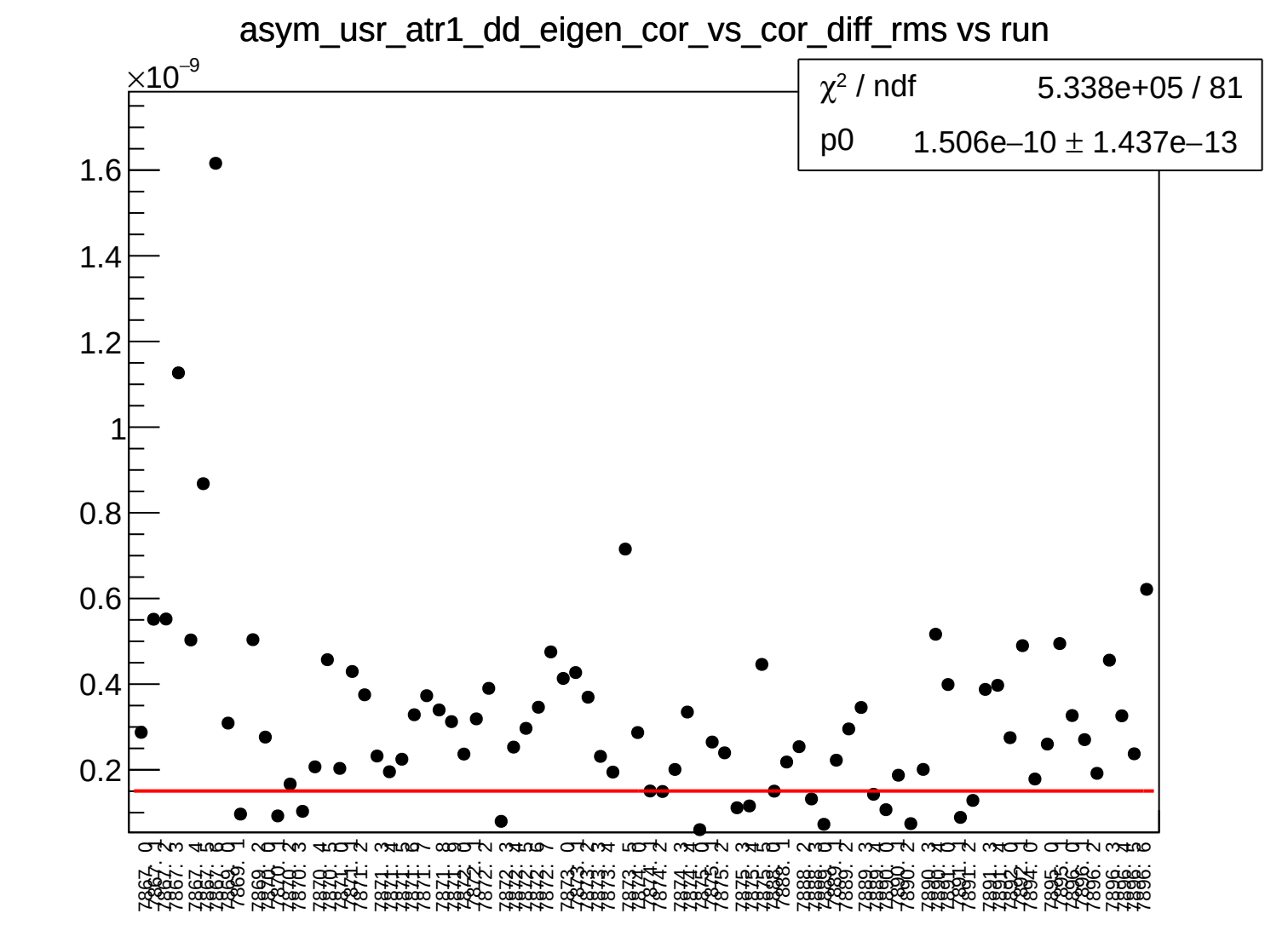

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.74 / 81
p0 0.013 ± 0.1184
pull
Entries 82
Mean 19.59
Std Dev 0

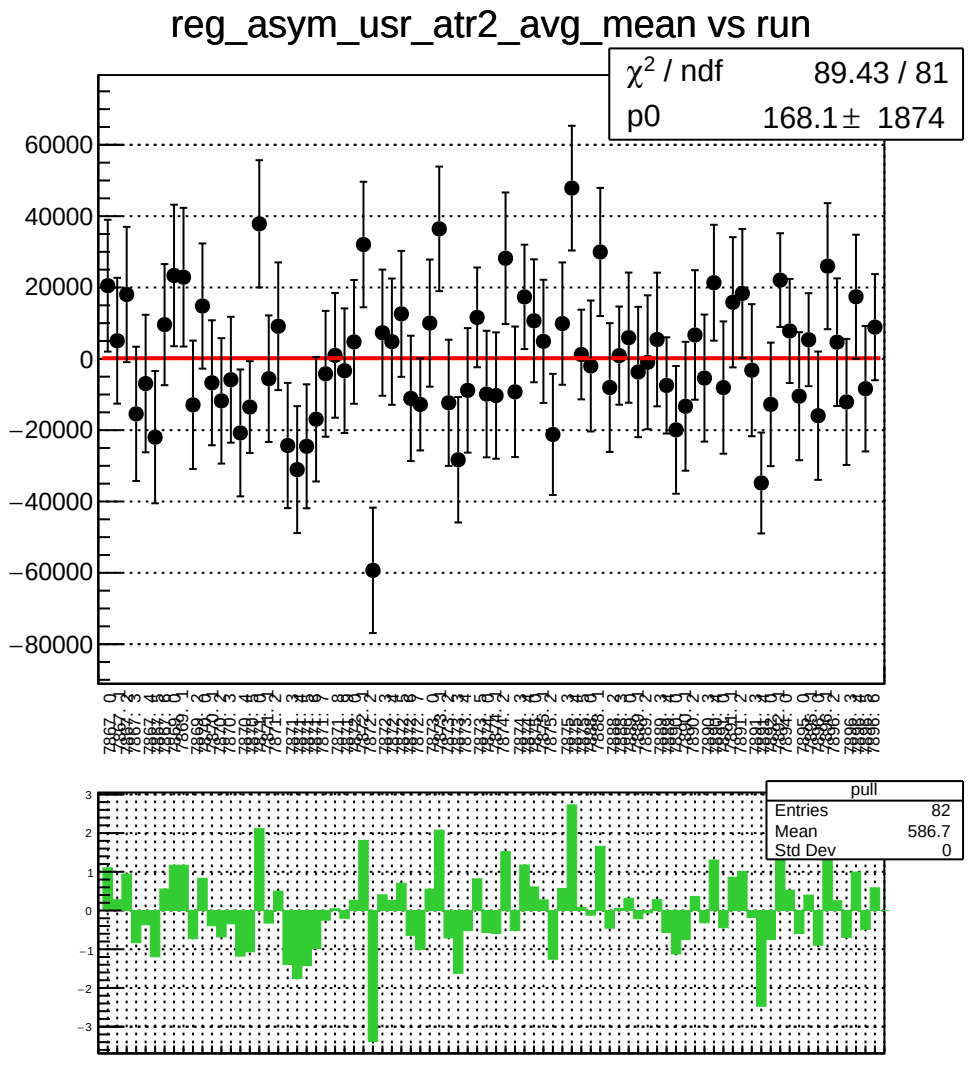

pull1D
Entries 82
Mean 0.04314
Std Dev 0.9011

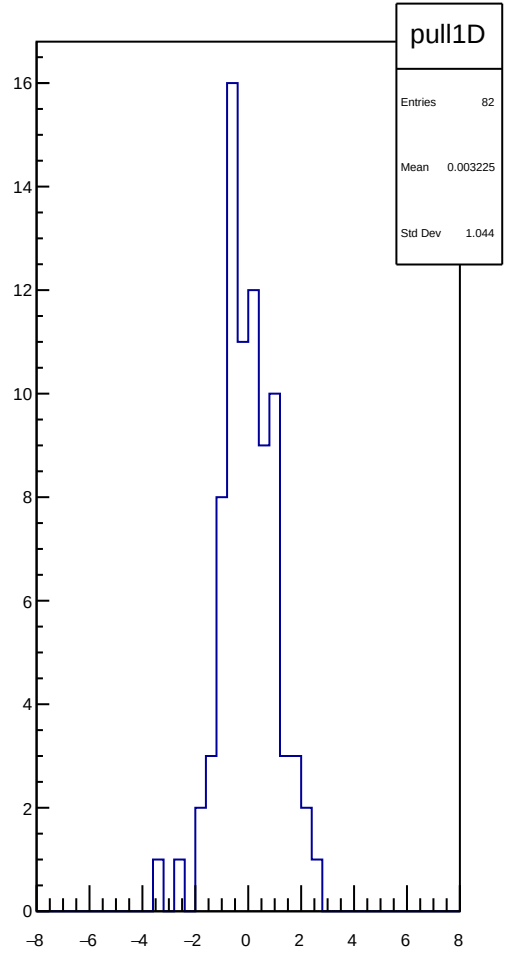

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.504e+05 / 81
p0 94.78 ± 0.08371
600
500
400
300
200
100

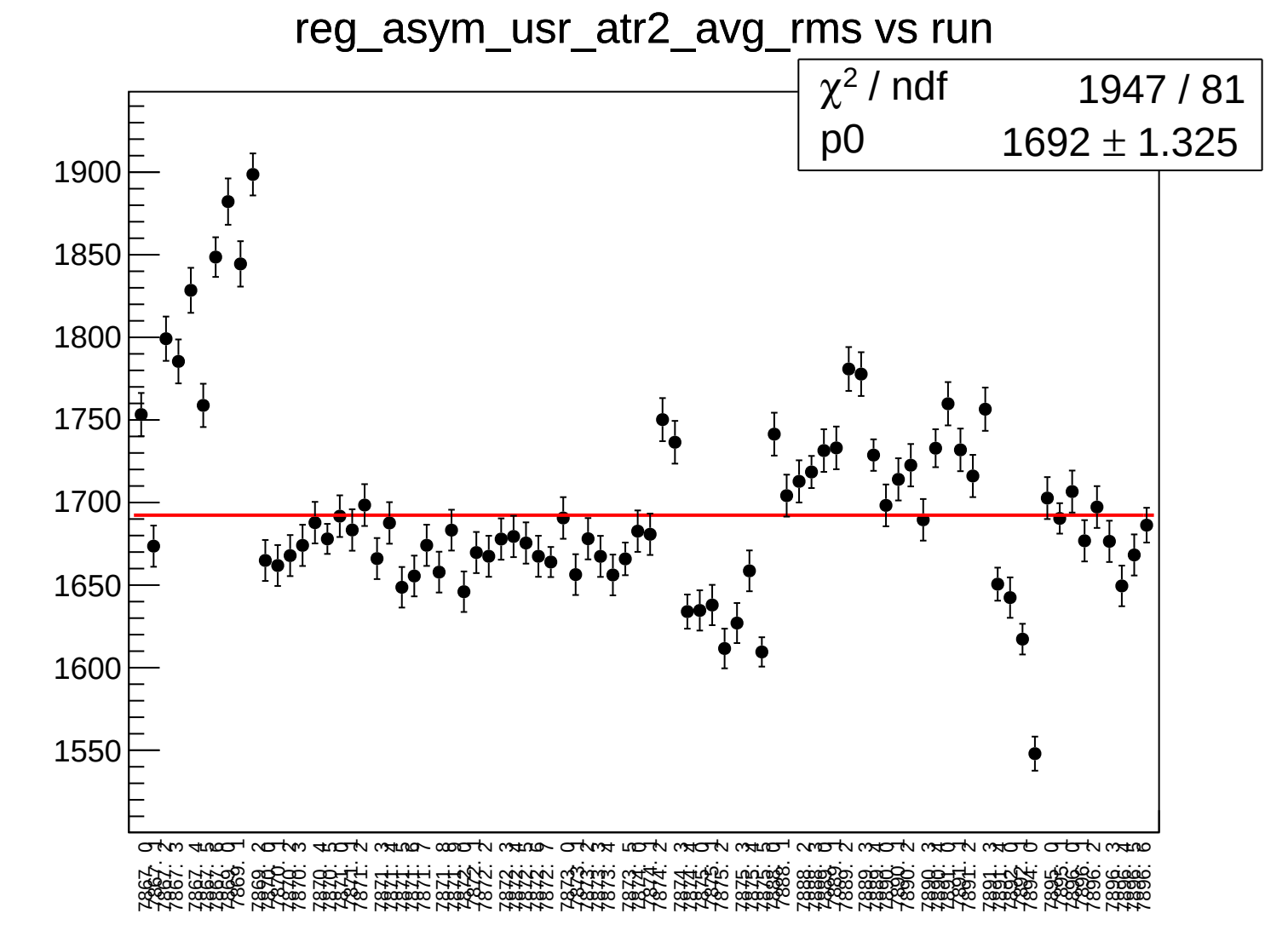

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.15 / 81
p0 5.25e−14 ± 2.032e−13
pull
Entries 82
Mean 152.1
Std Dev 28.92

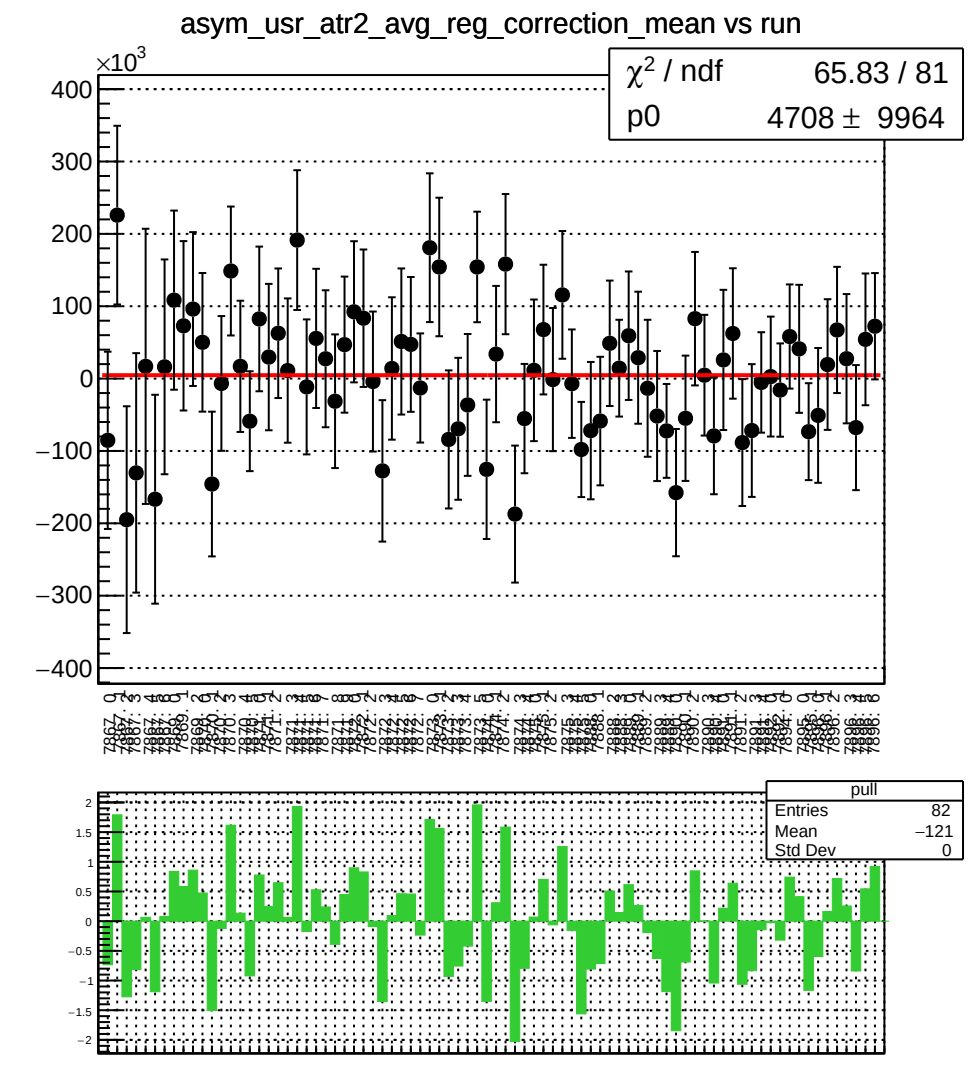

pull1D
Entries 82
Mean 0.004439
Std Dev 0.9445

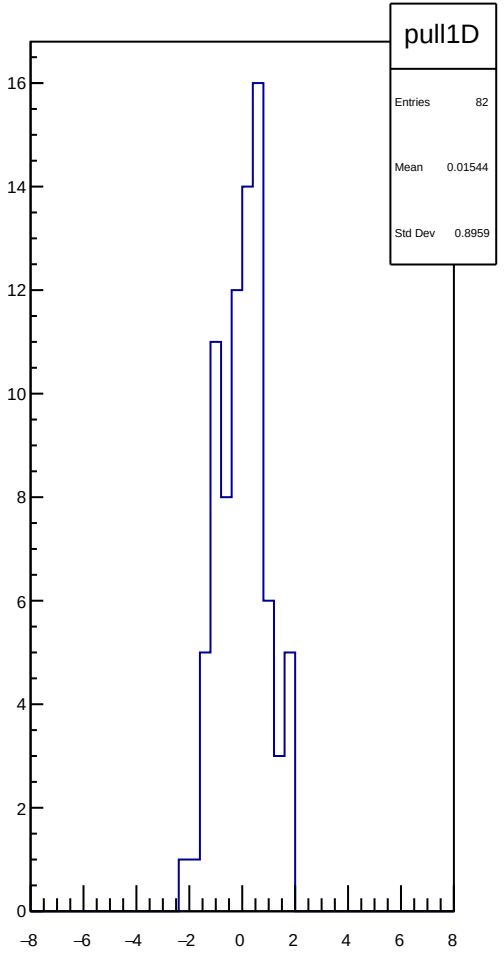

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.338e+05 / 81
p0 1.506e−10 ± 1.437e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

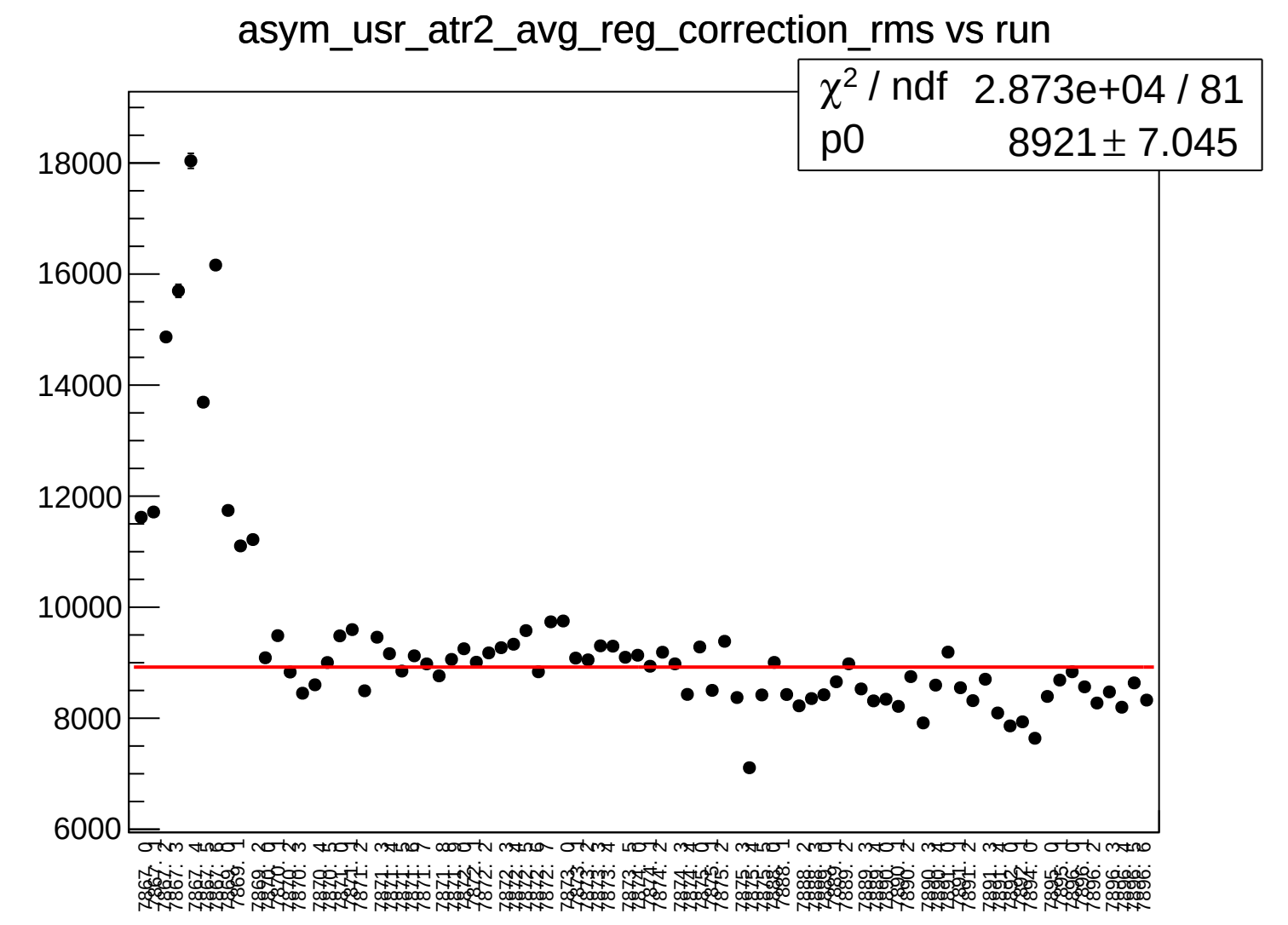

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.43 / 81
p0 168.1 ± 1874
pull
Entries 82
Mean 586.7
Std Dev 0

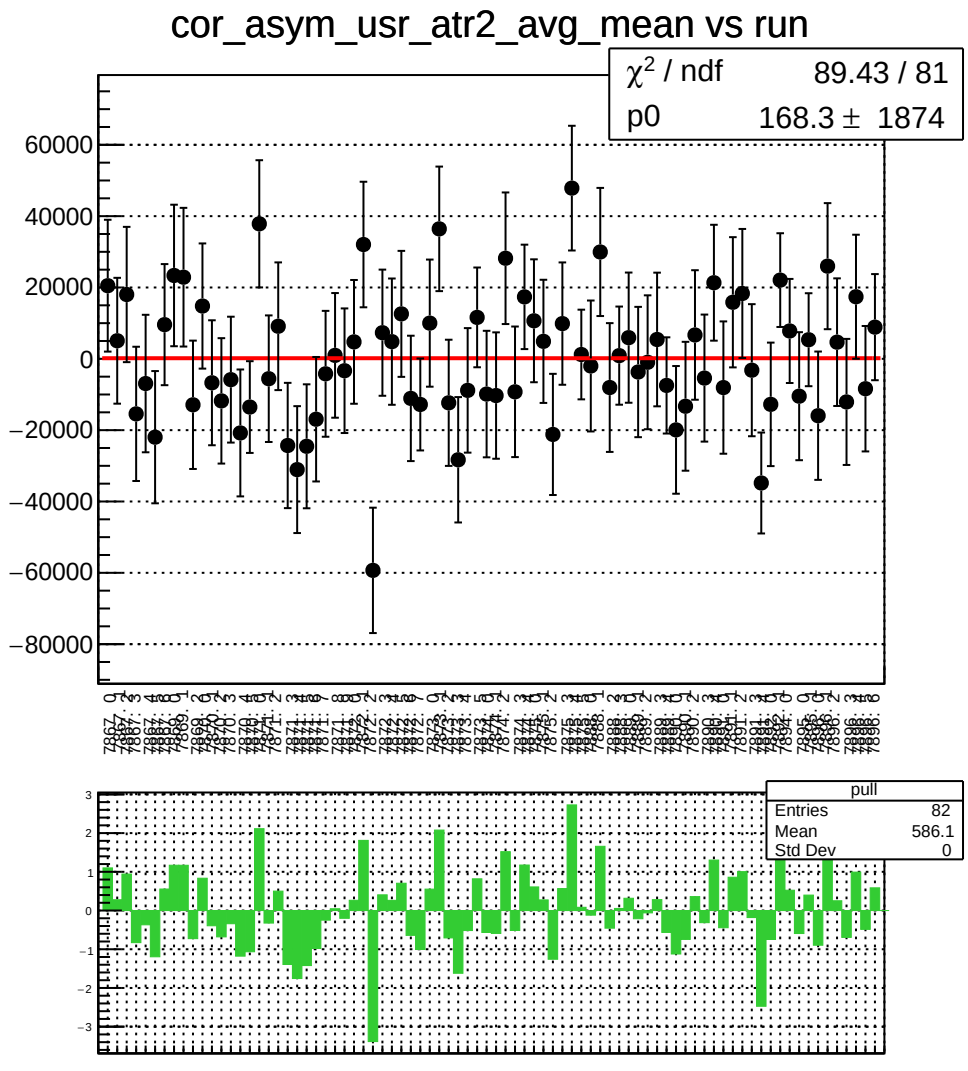

pull1D
Entries 82
Mean 0.003225
Std Dev 1.044

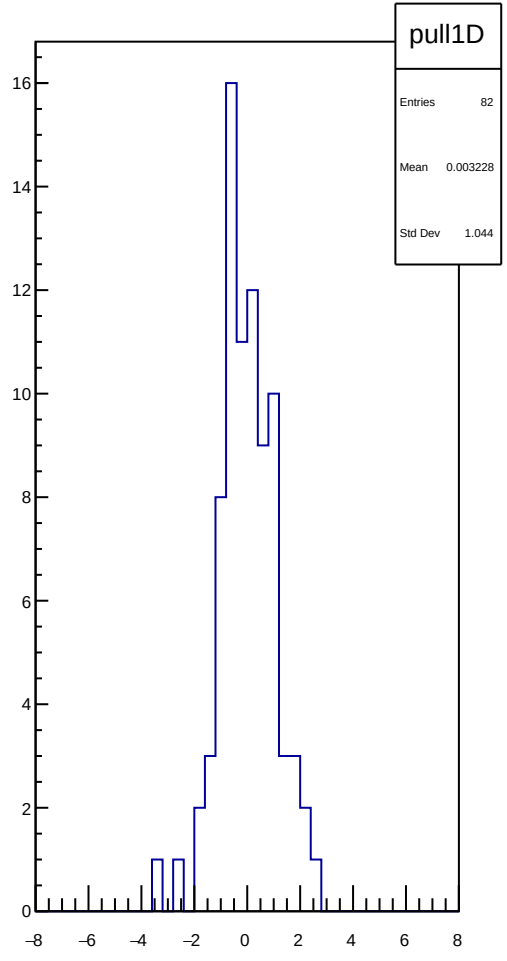

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1947 / 81
p0 1692 ± 1.325
1900
1850
1800
1750
1700
1650
1600
1550

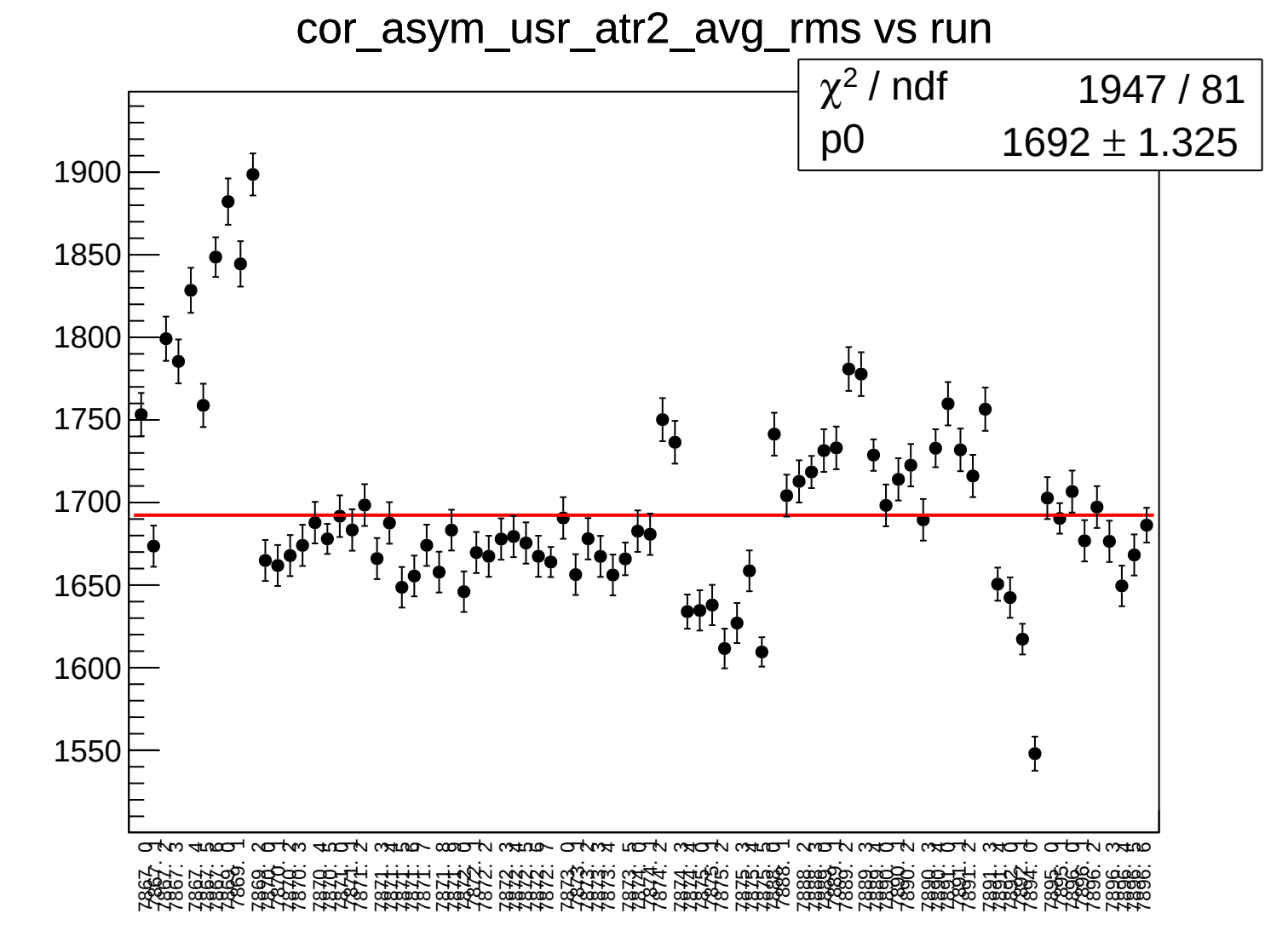

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 65.83 / 81
p0 4708 ± 9964
pull
Entries 82
Mean −121
Std Dev 0

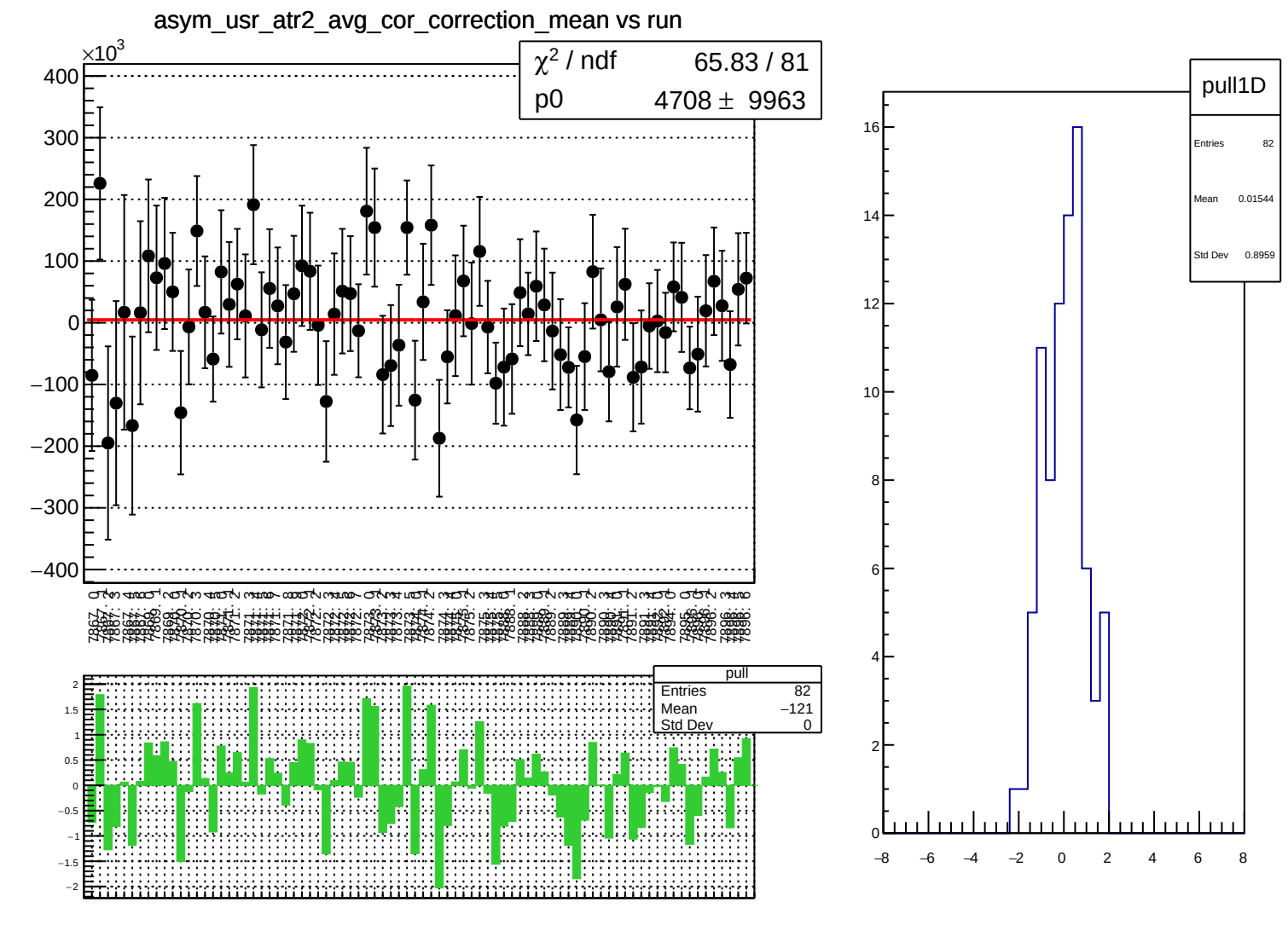

pull1D
Entries 82
Mean 0.01544
Std Dev 0.8959

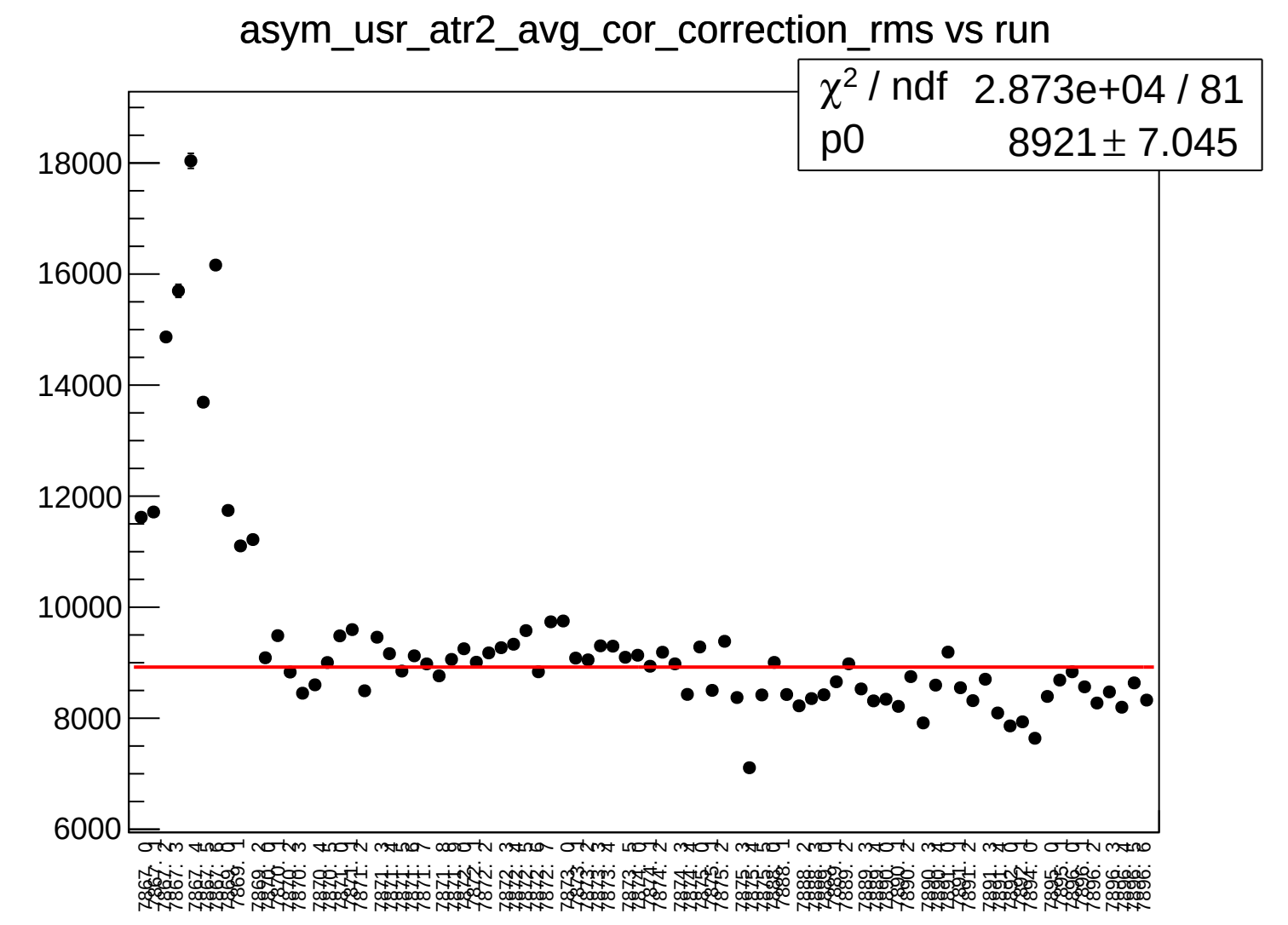

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 2.873e+04 / 81
p0 8921 ± 7.045
18000
16000
14000
12000
10000
8000
6000

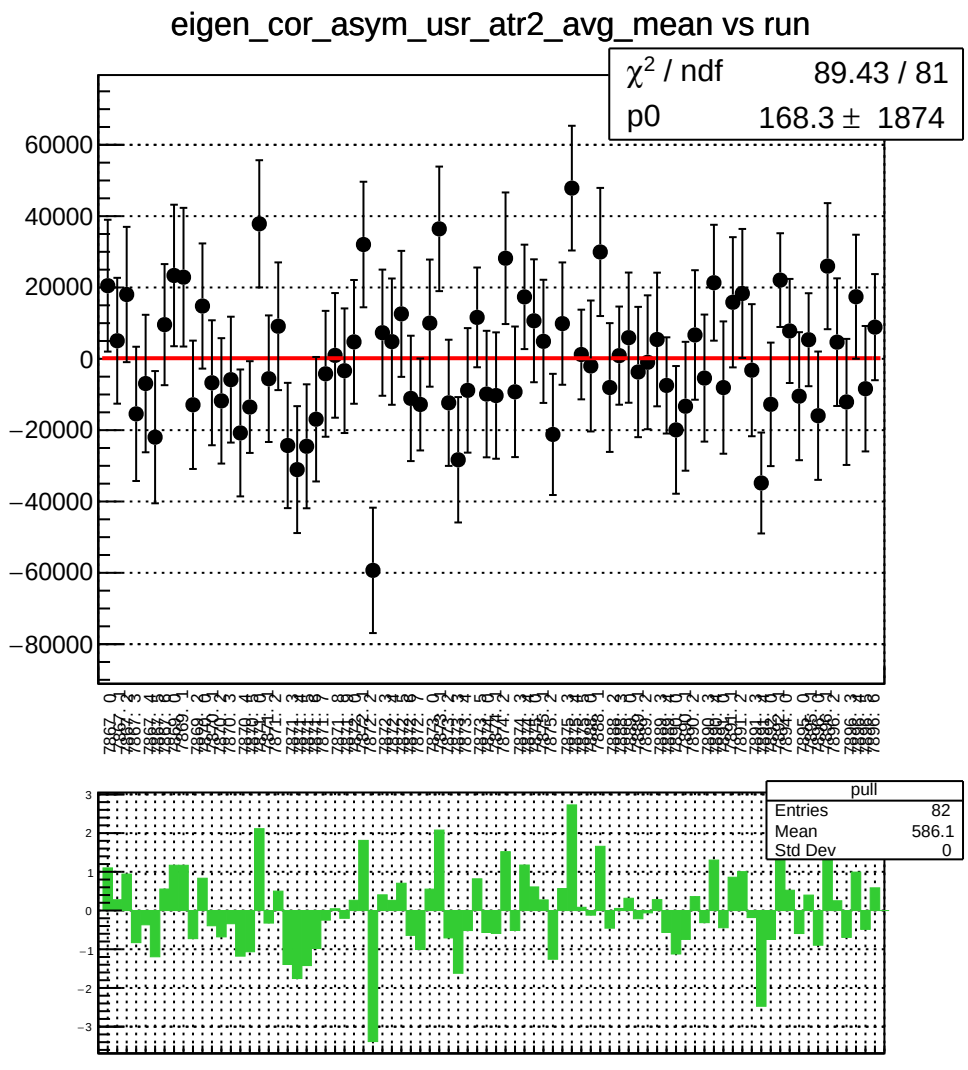

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.43 / 81
p0 168.3 ± 1874
pull
Entries 82
Mean 586.1
Std Dev 0

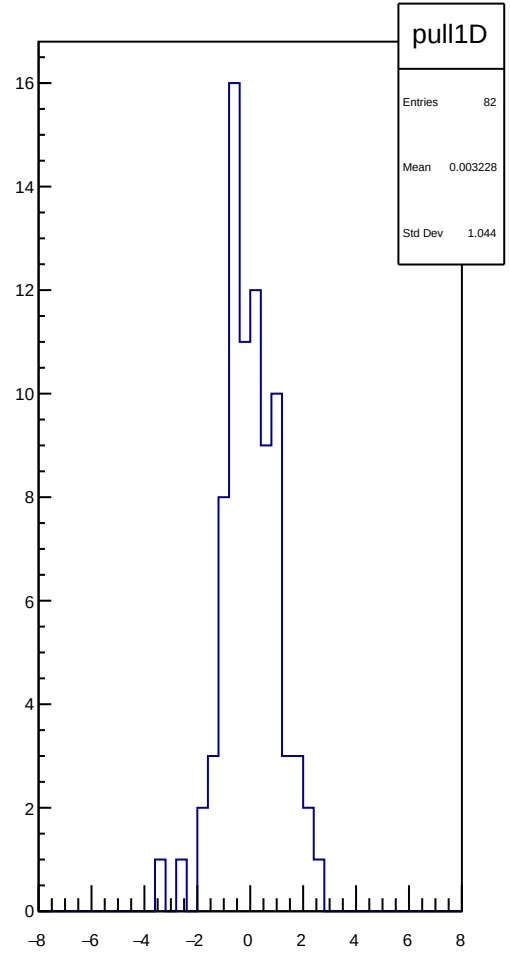

pull1D
Entries 82
Mean 0.003228
Std Dev 1.044

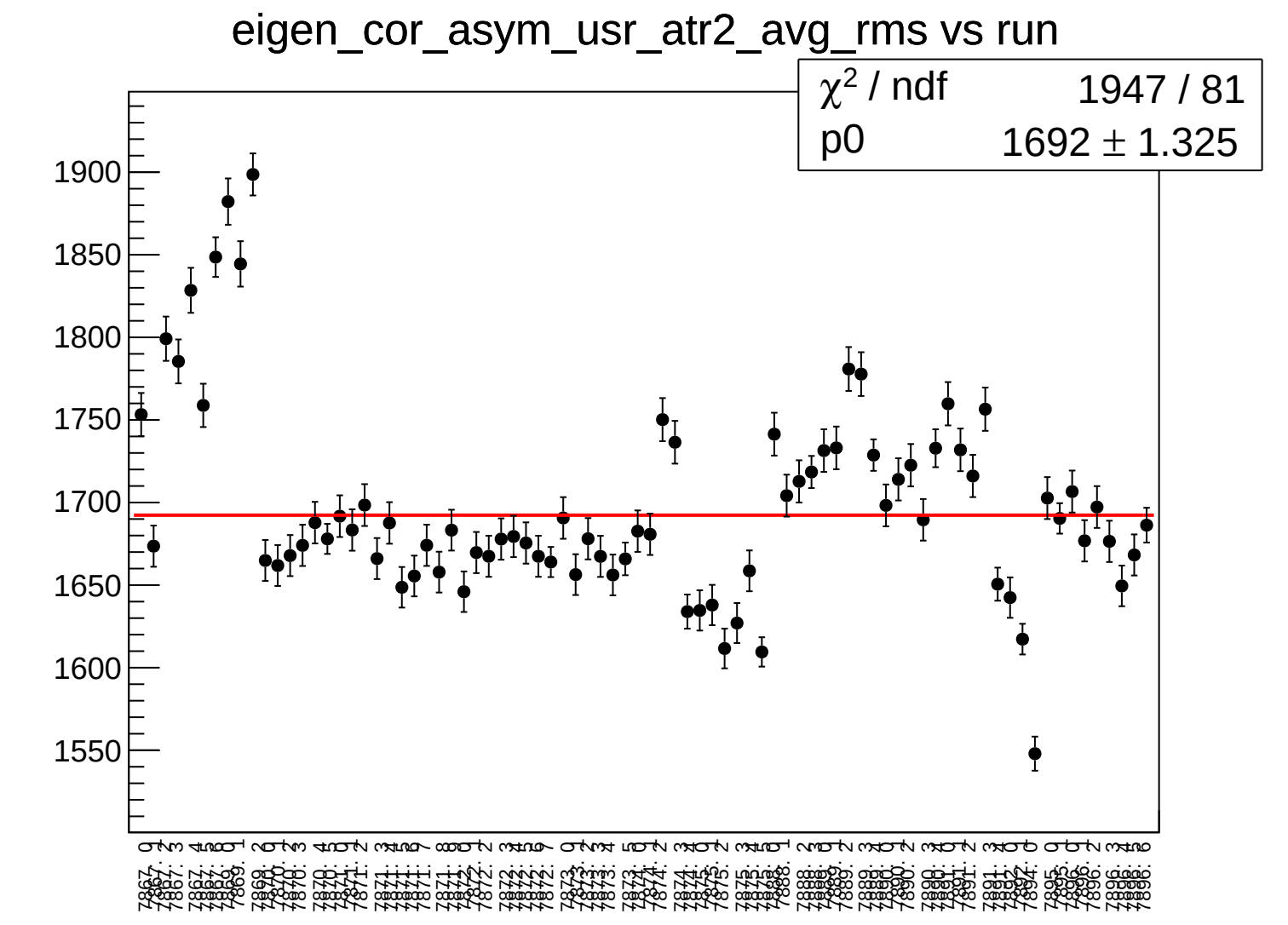

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1947 / 81
p0 1692 ± 1.325
1900
1850
1800
1750
1700
1650
1600
1550

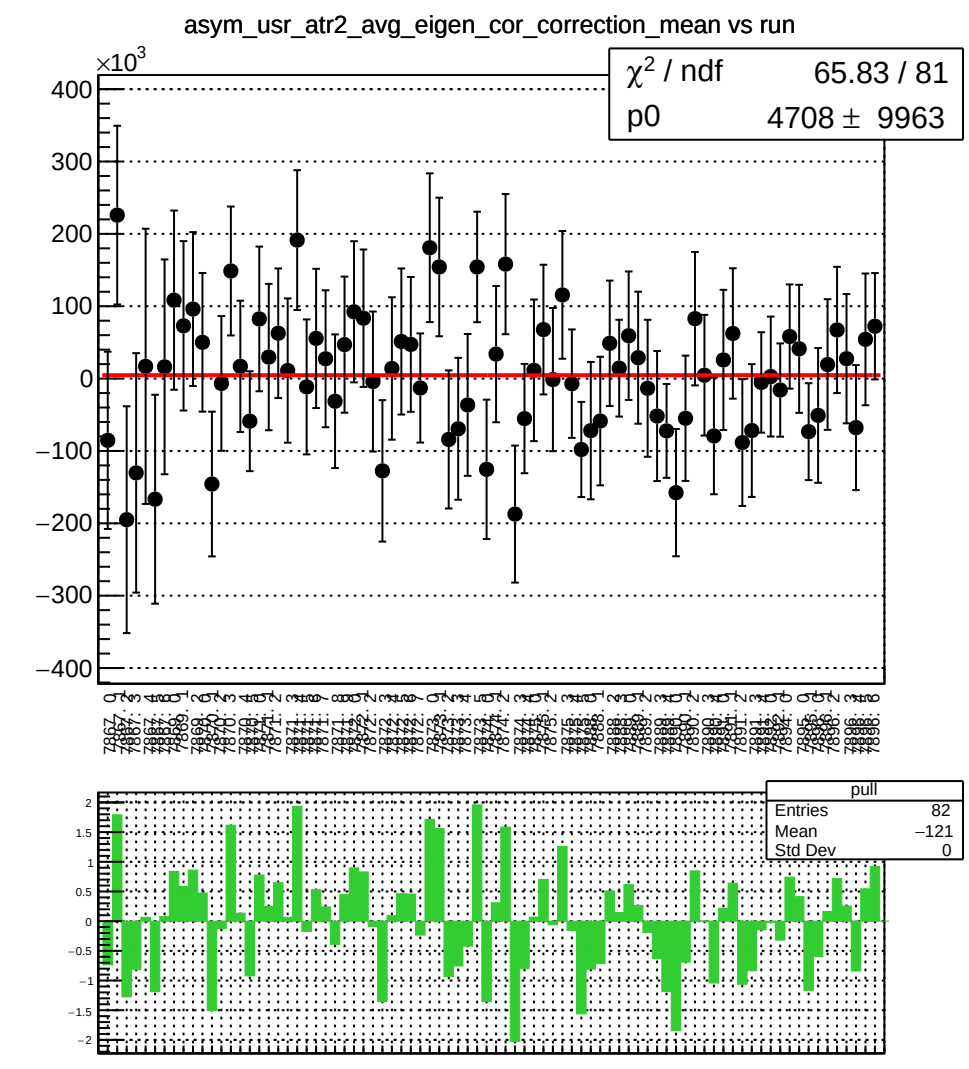

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.83 / 81
p0 4708 ± 9963
pull
Entries 82
Mean −121
Std Dev 0
pull1D
Entries 82
Mean 0.01544
Std Dev 0.8959

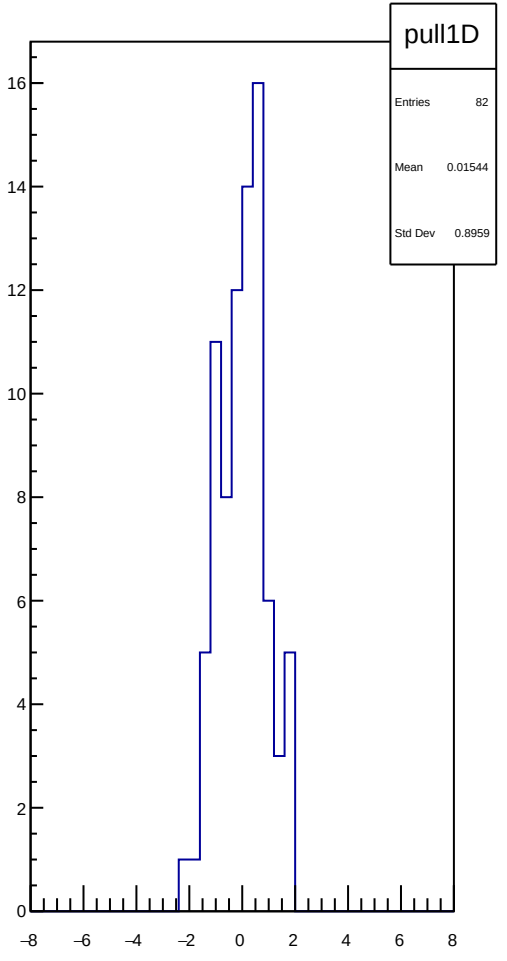

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 2.873e+04 / 81
p0 8921 ± 7.045
18000
16000
14000
12000
10000
8000
6000

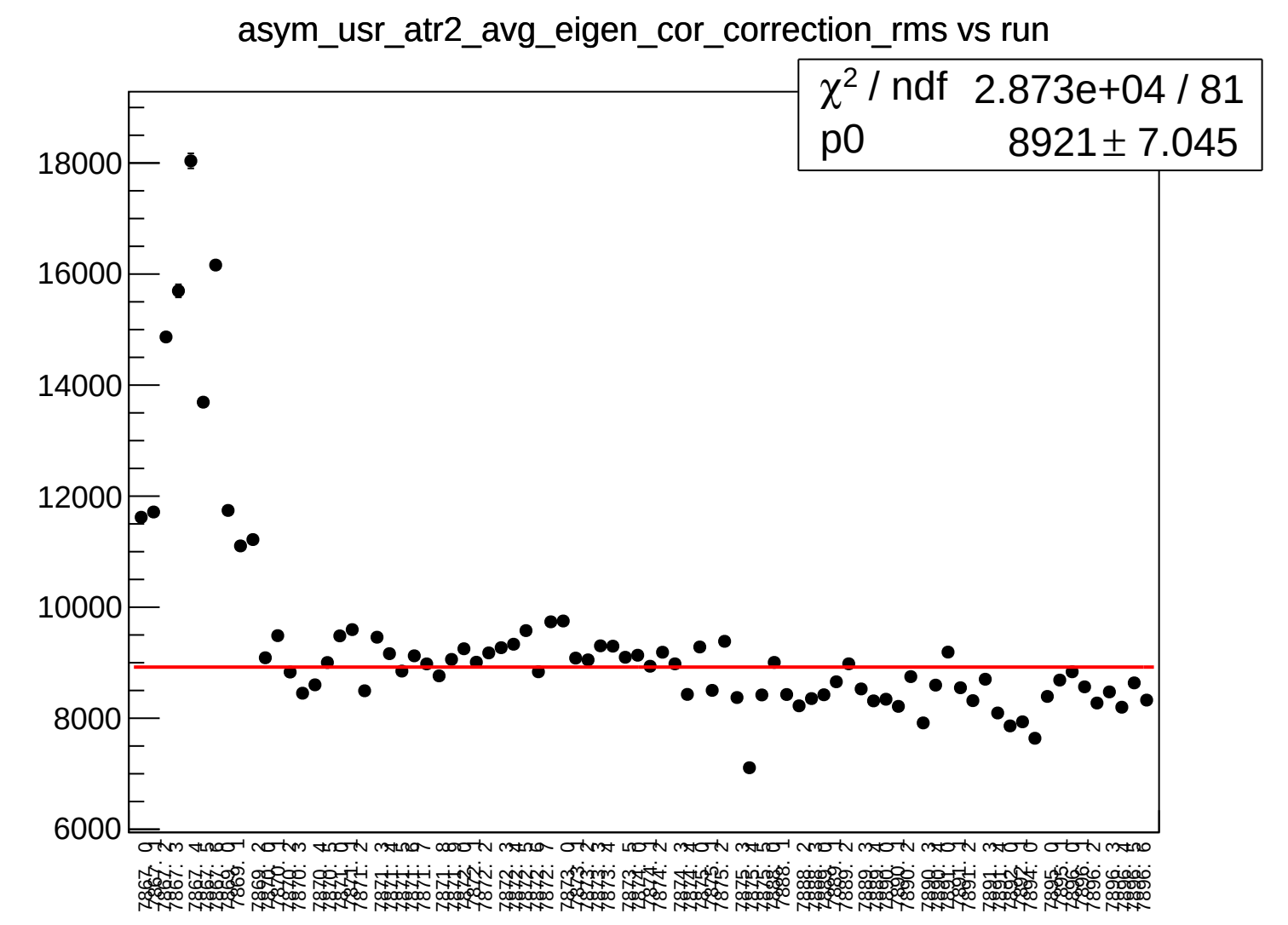

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.43 / 81
p0 168.3 ± 1874
pull
Entries 82
Mean 586.1
Std Dev 0

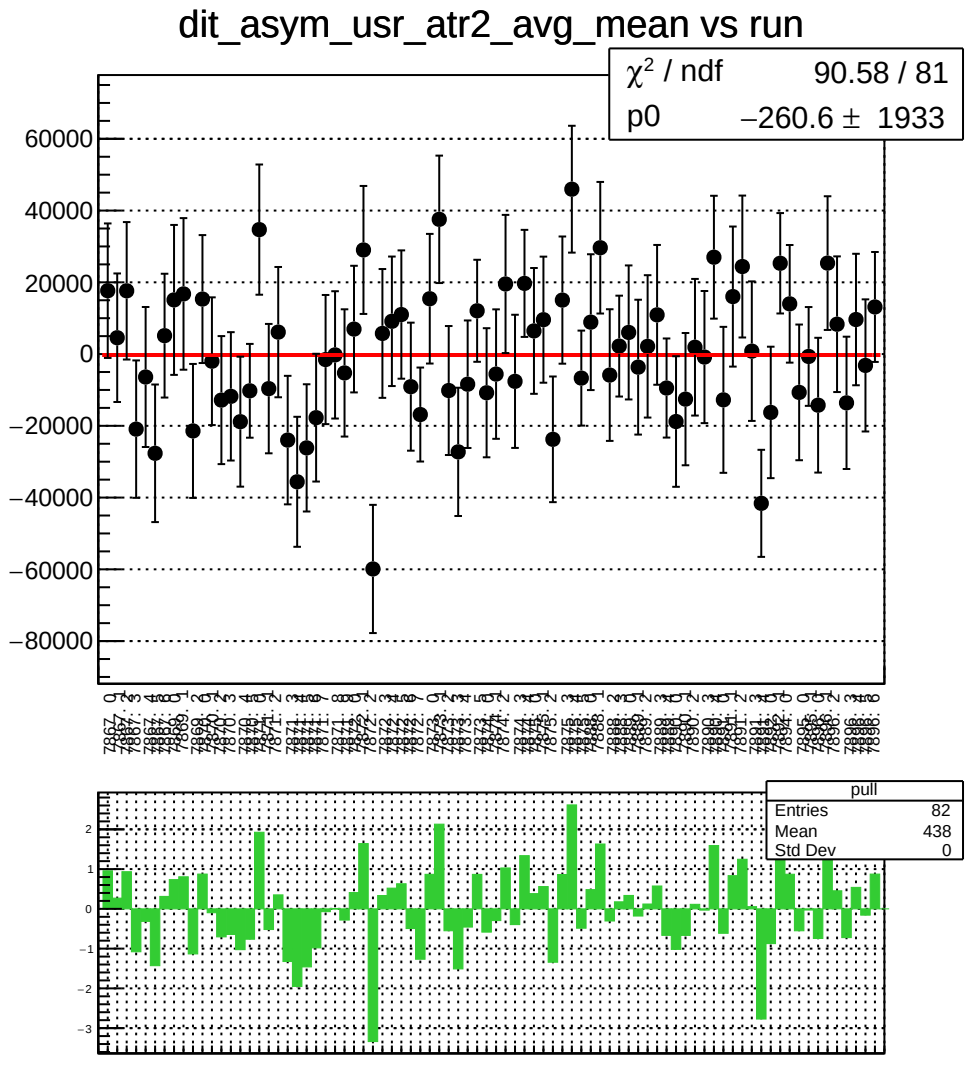

pull1D
Entries 82
Mean 0.003228
Std Dev 1.044

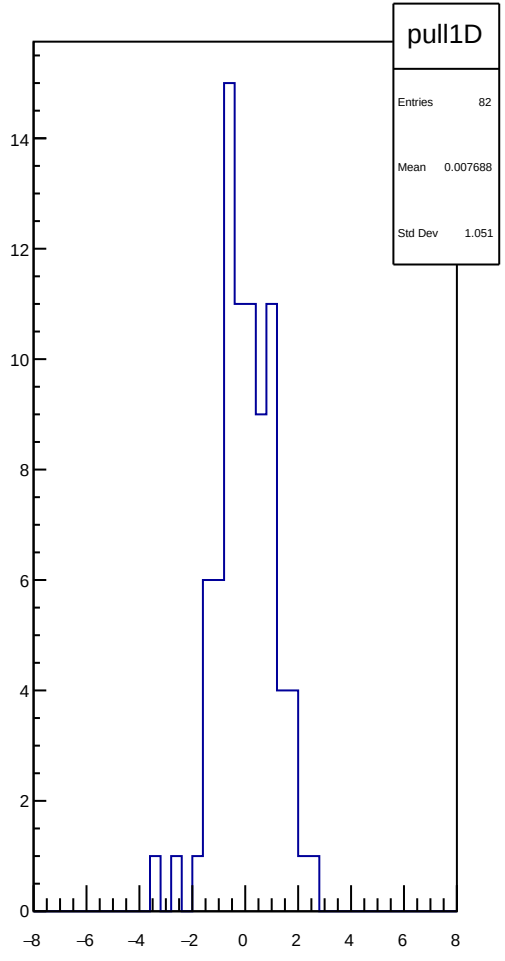

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1947 / 81
p0 1692 ± 1.325
1900
1850
1800
1750
1700
1650
1600
1550

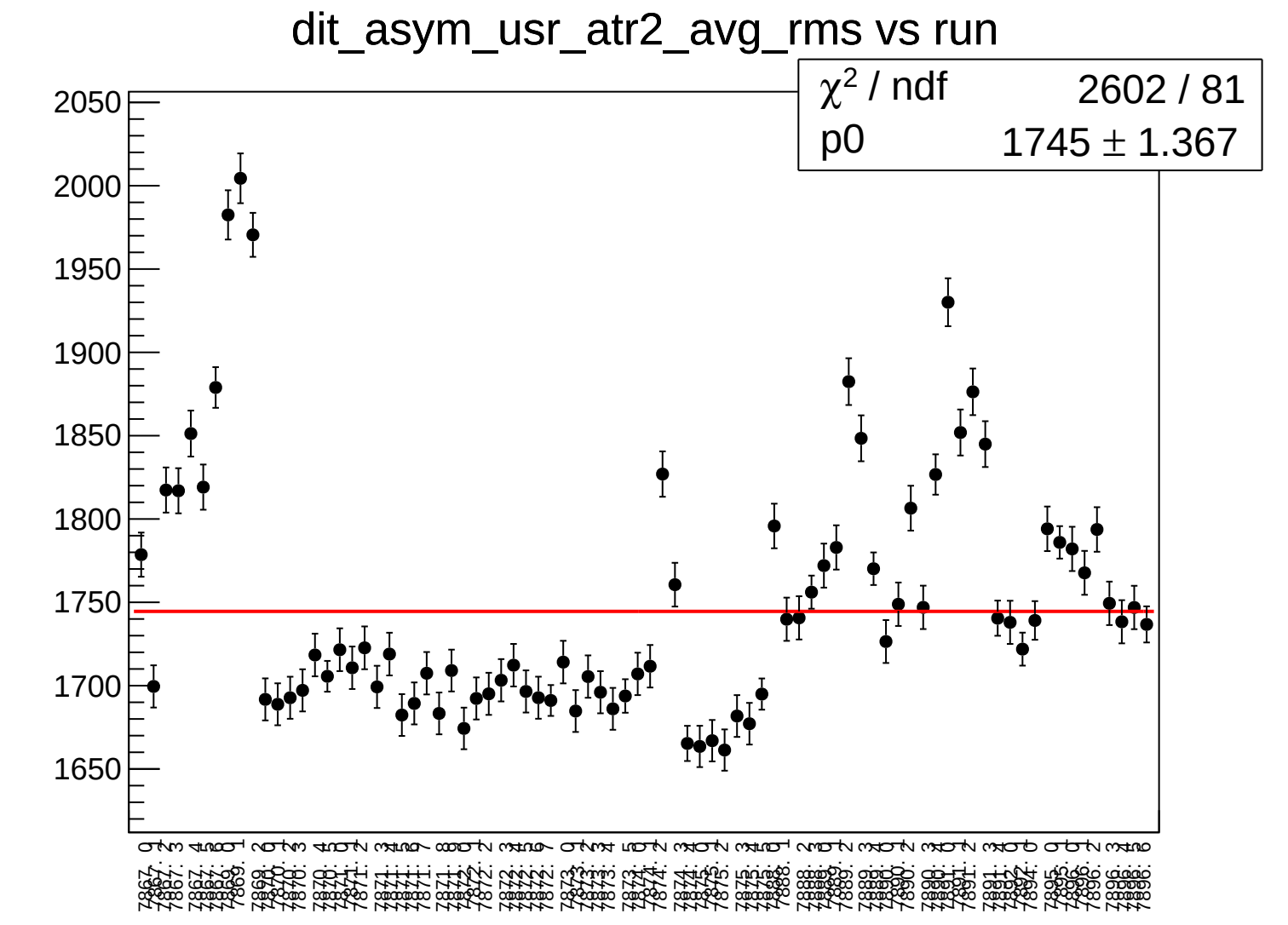

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.83 / 81
p0 4708 ± 9963
pull
Entries 82
Mean −121
Std Dev 0

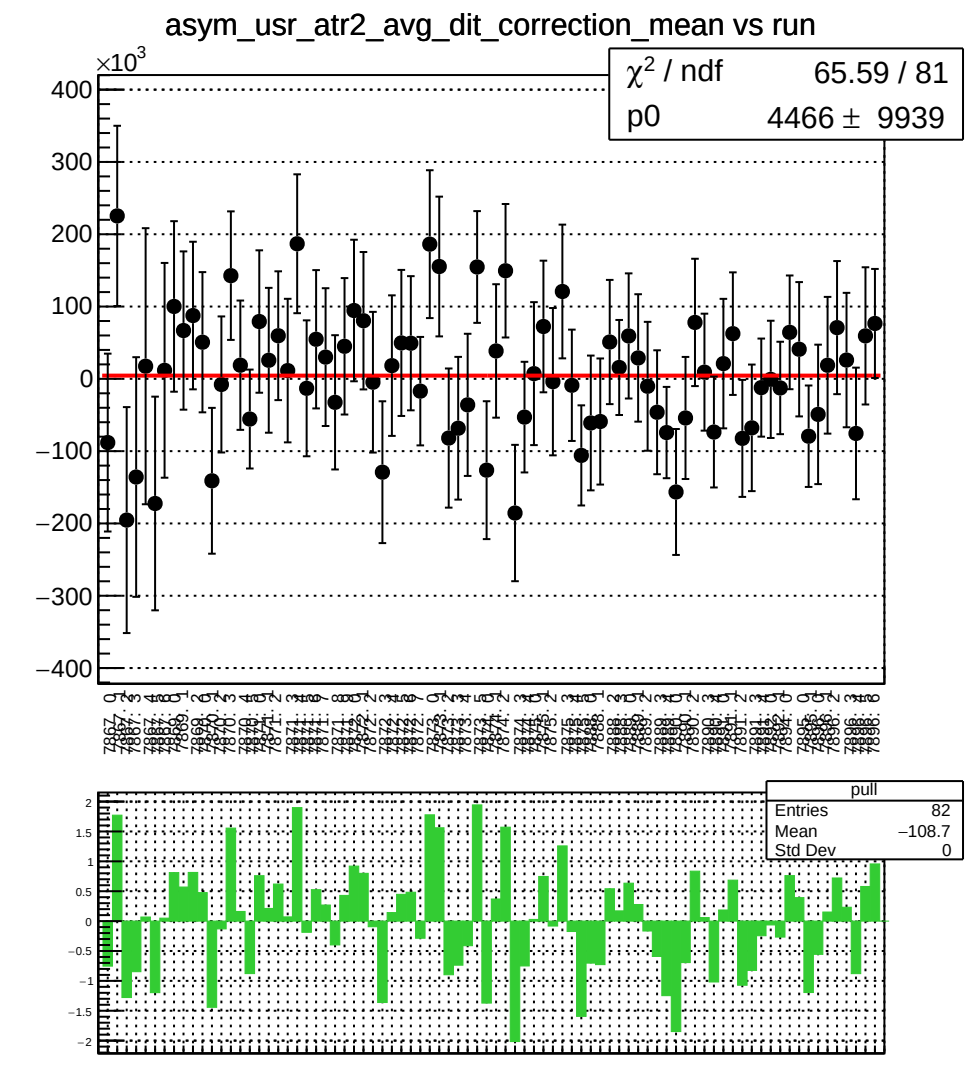

pull1D
Entries 82
Mean 0.01544
Std Dev 0.8959

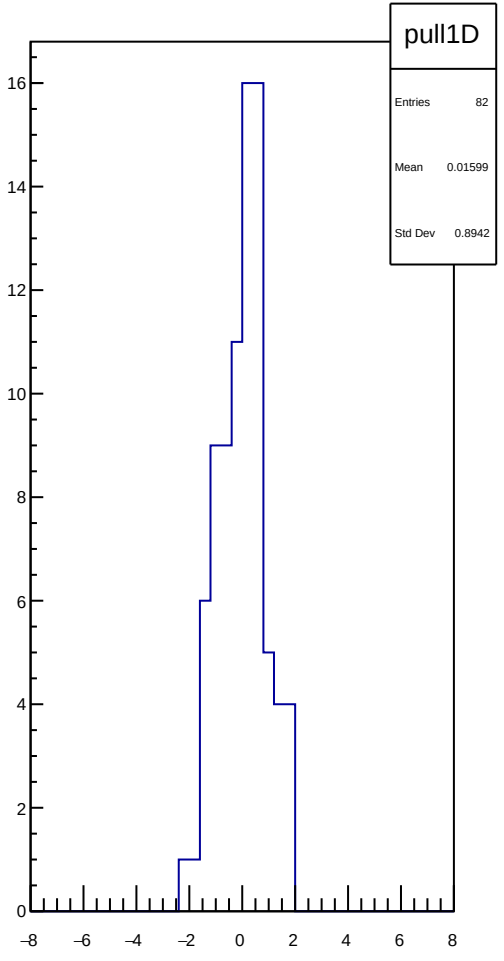

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.873e+04 / 81
p0 8921 ± 7.045
18000
16000
14000
12000
10000
8000
6000

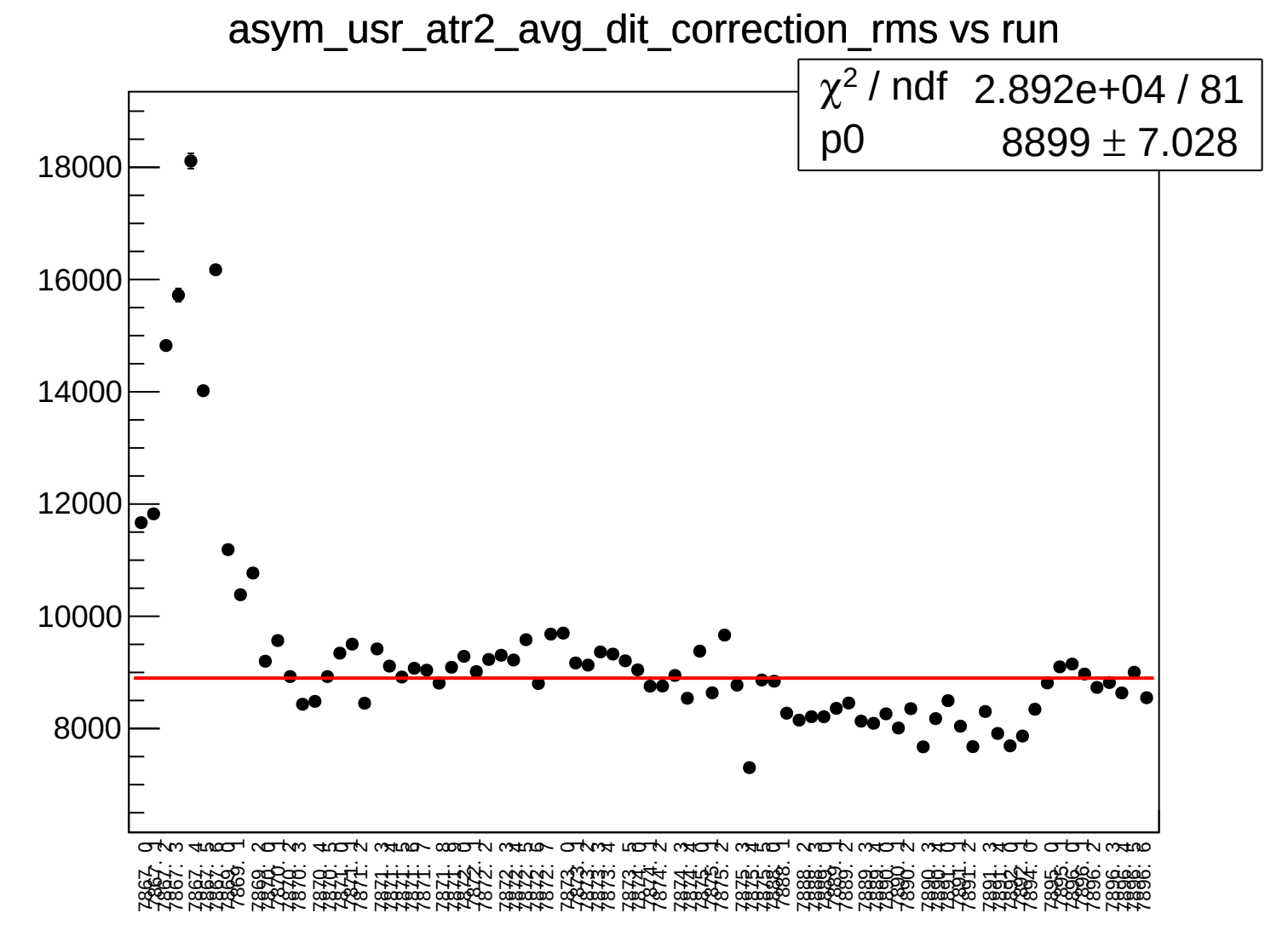

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 90.58 / 81
p0 −260.6 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 438
Std Dev 0
2
1
0
−1
−2
−3

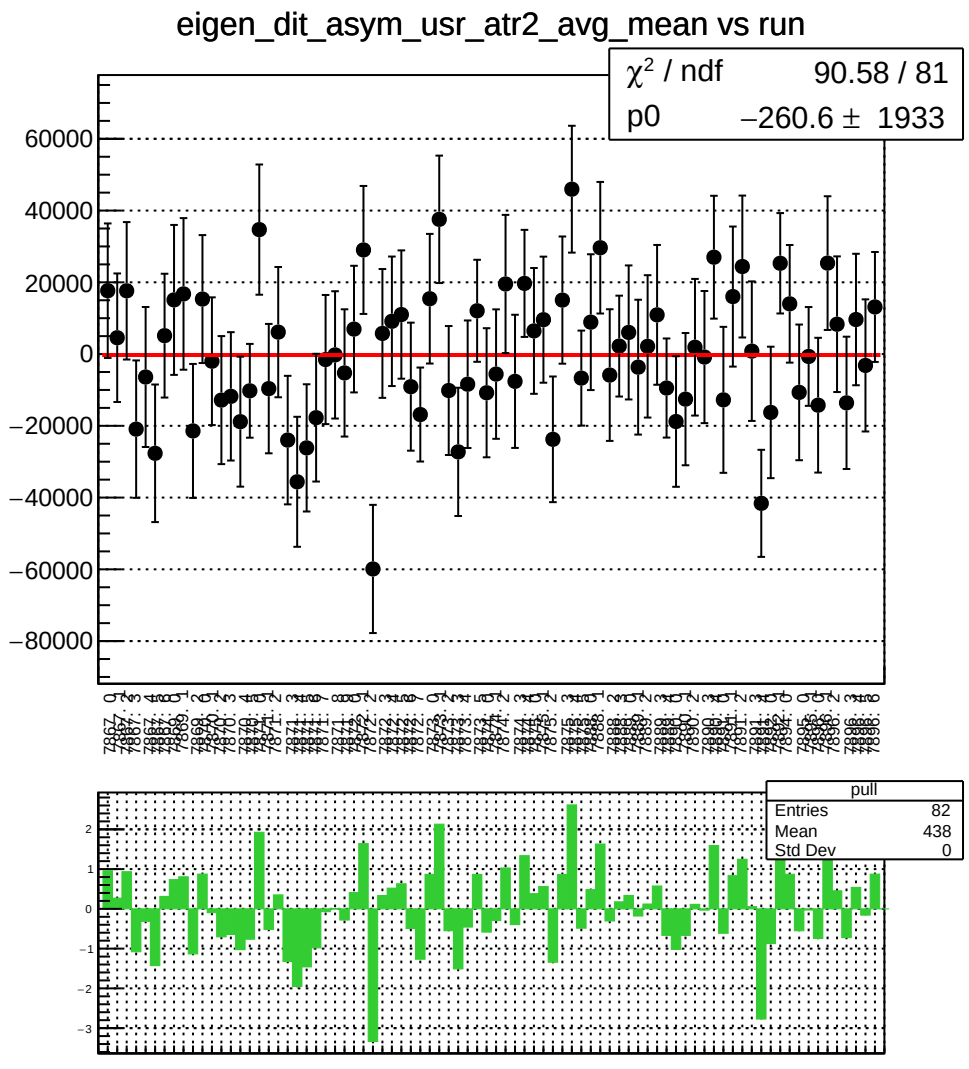

pull1D
Entries 82
Mean 0.007688
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

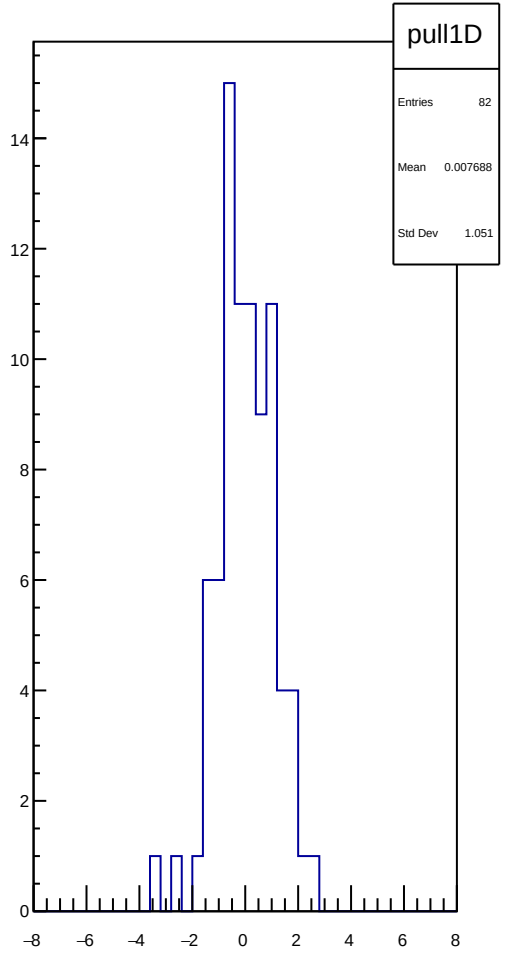

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2602 / 81
p0 1745 ± 1.367
2050
2000
1950
1900
1850
1800
1750
1700
1650

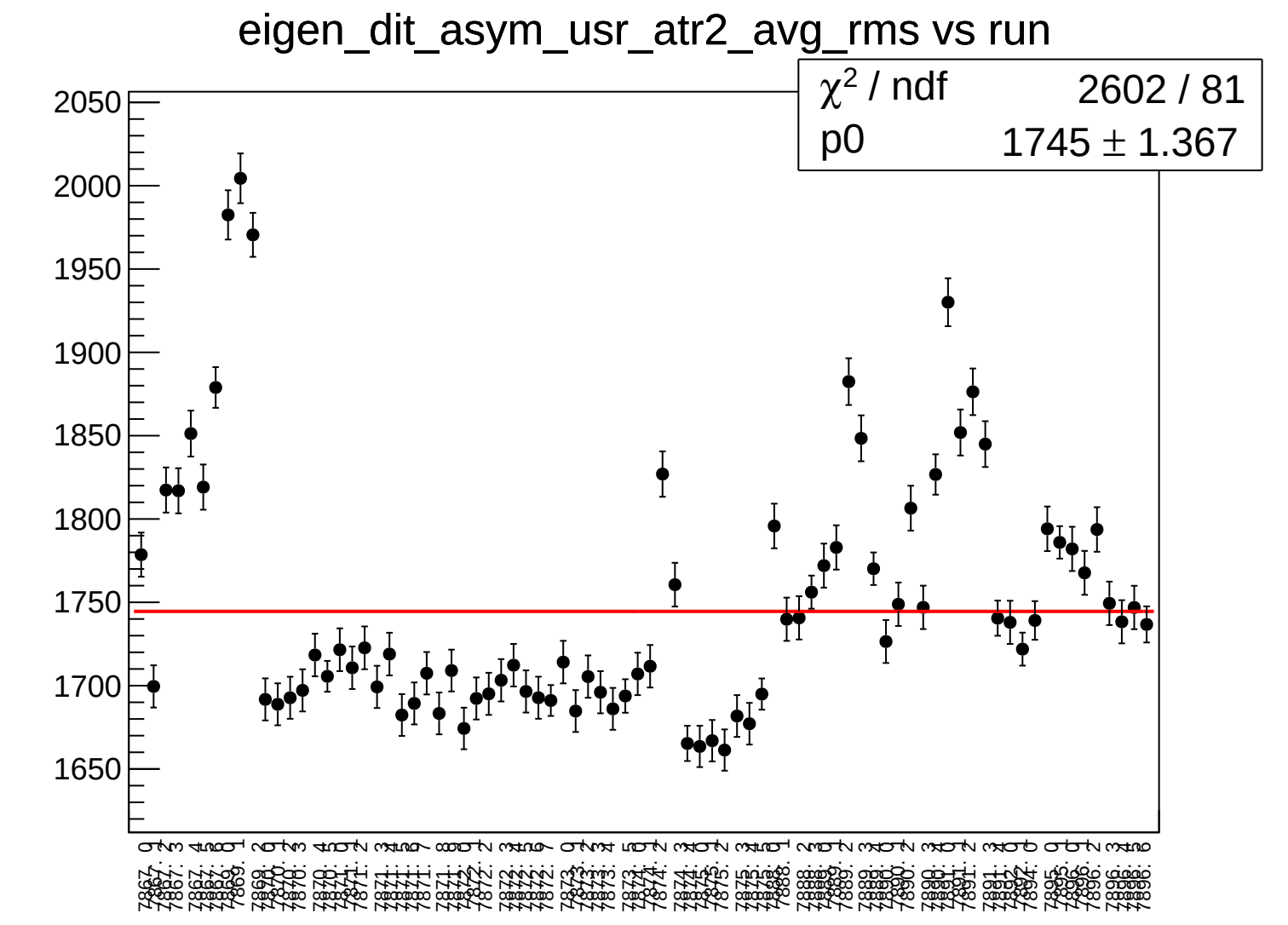

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 65.59 / 81
p0 4466 ± 9939
pull
Entries 82
Mean −108.7
Std Dev 0

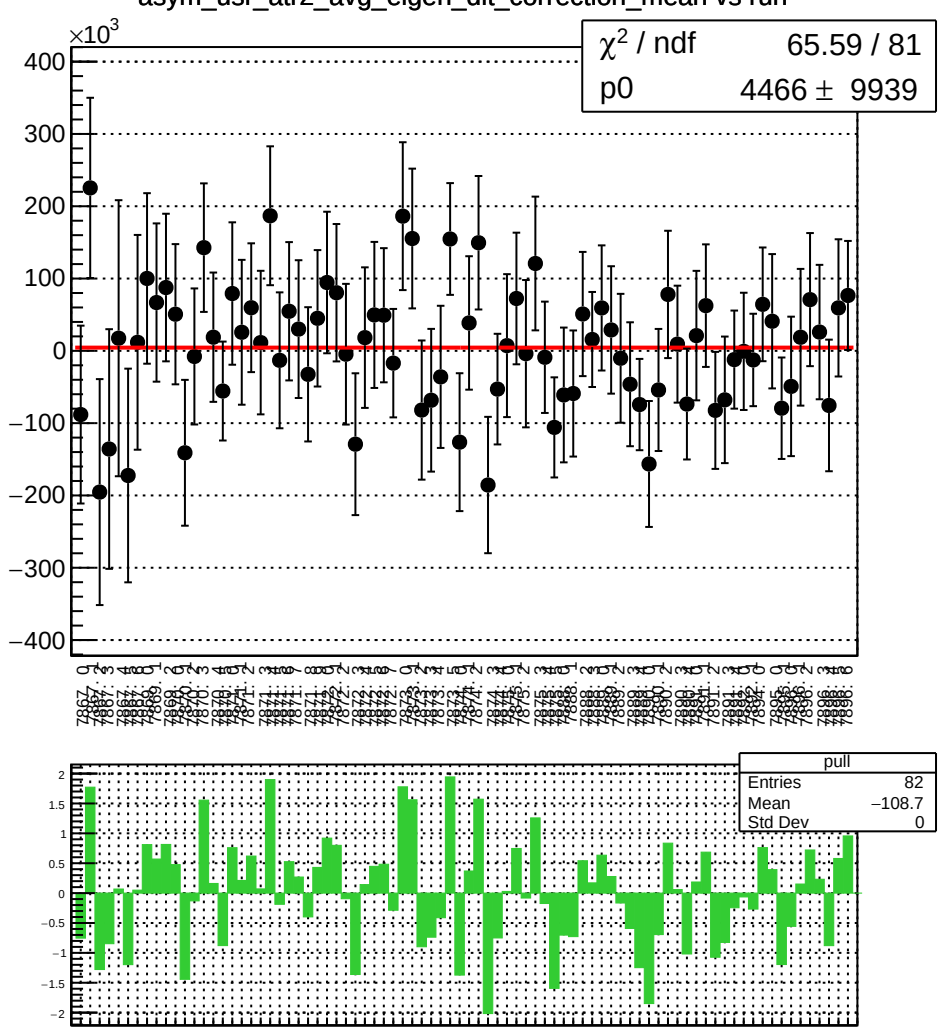

pull1D
Entries 82
Mean 0.01599
Std Dev 0.8942

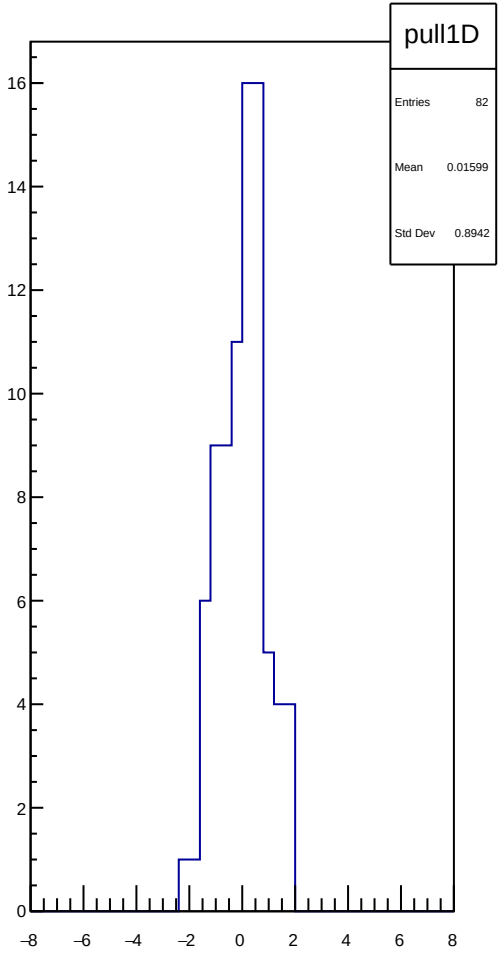

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2.892e+04 / 81
p0 8899 ± 7.028
18000
16000
14000
12000
10000
8000

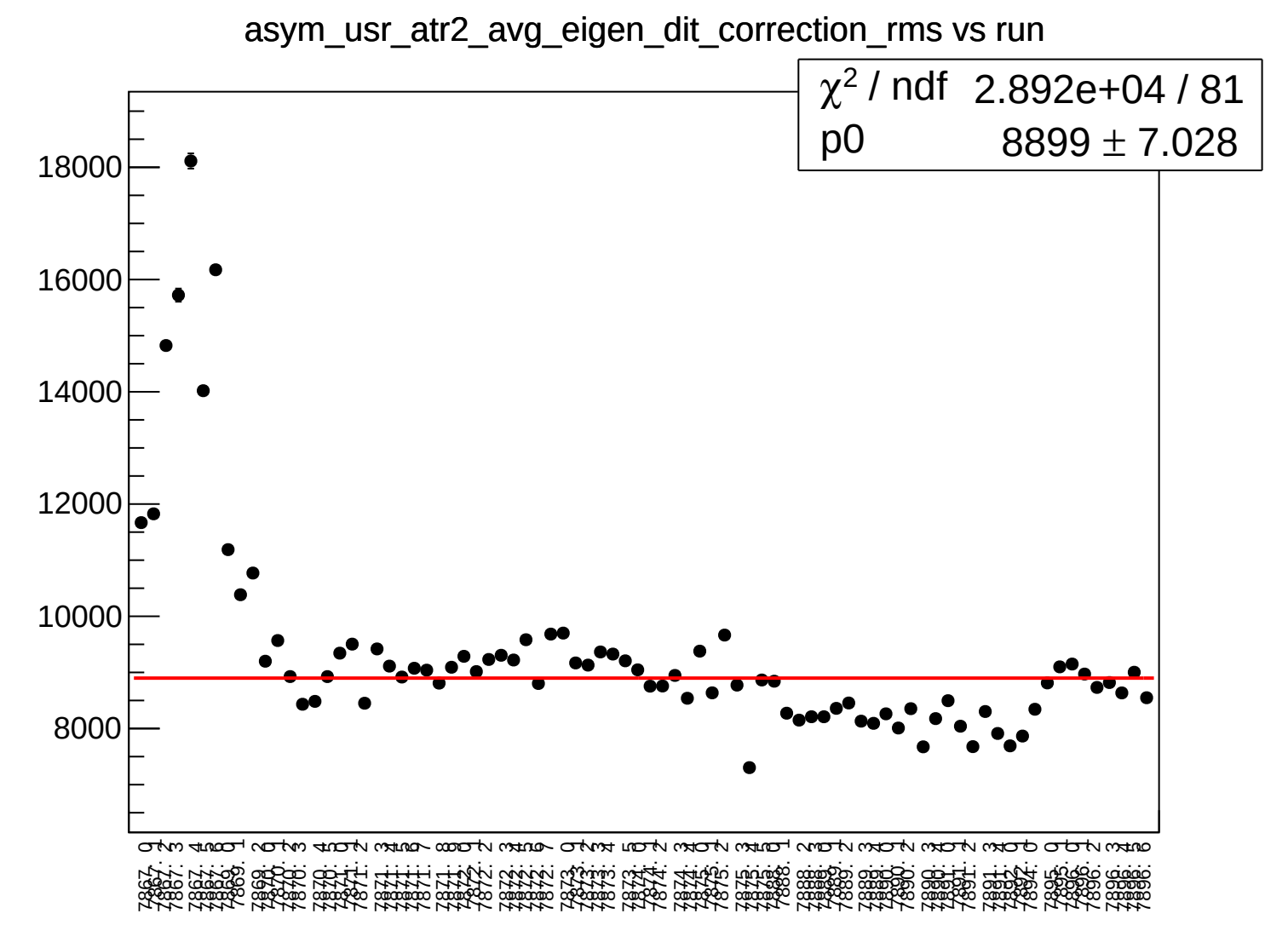

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 90.58 / 81
p0 −260.6 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 438
Std Dev 0
2
1
0
−1
−2
−3

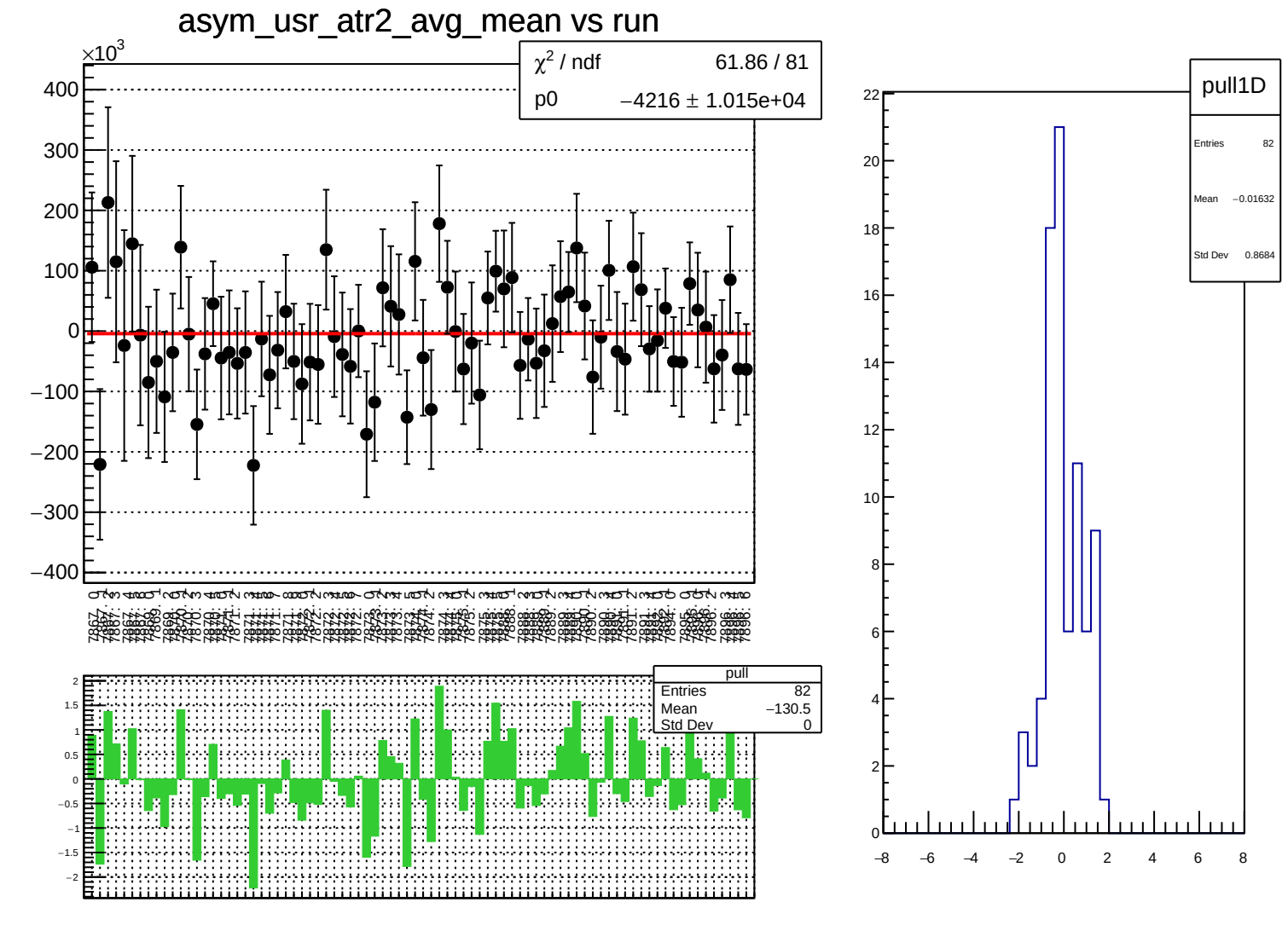

pull1D
Entries 82
Mean 0.007688
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

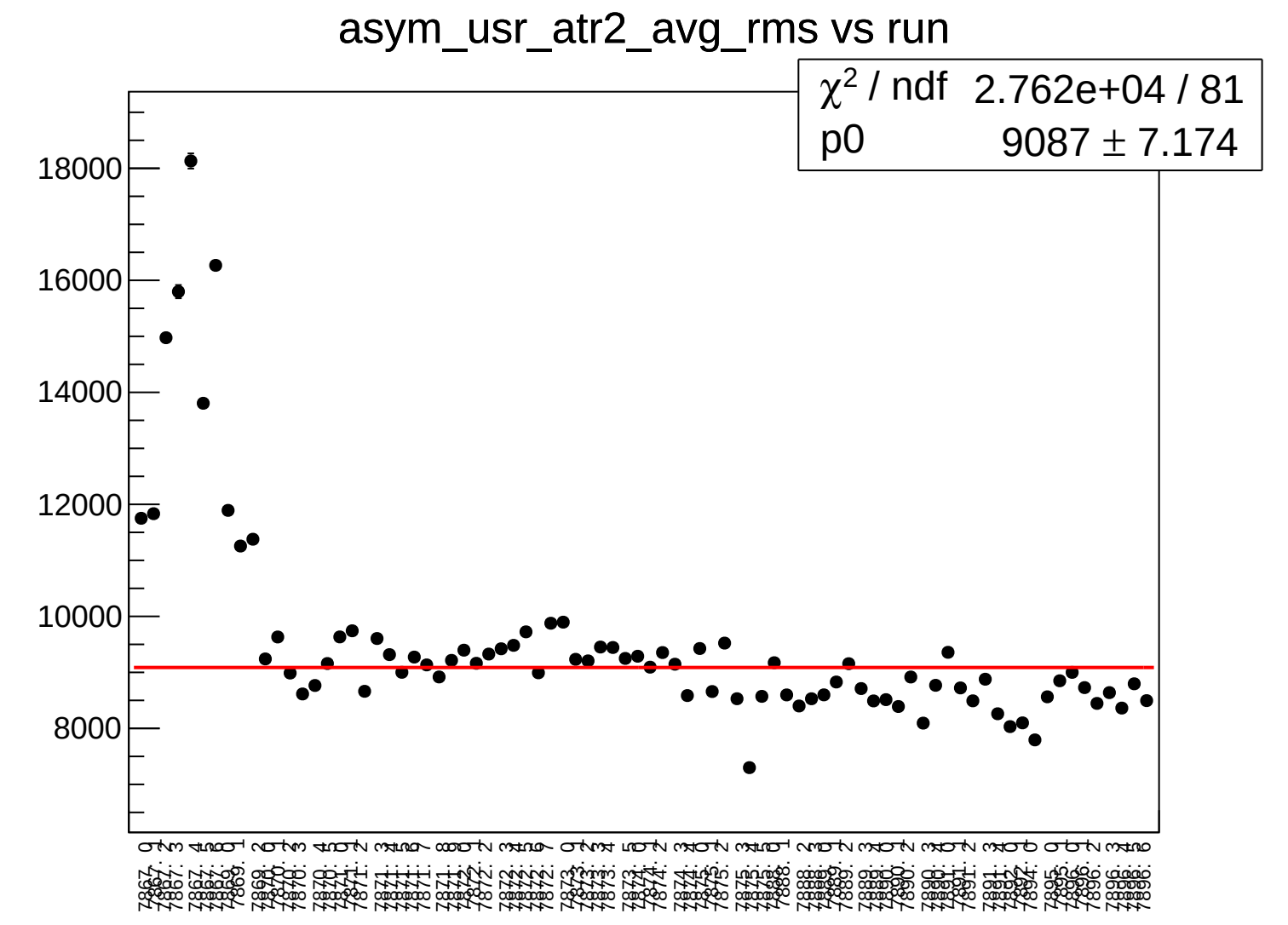

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2602 / 81
p0 1745 ± 1.367
2050
2000
1950
1900
1850
1800
1750
1700
1650

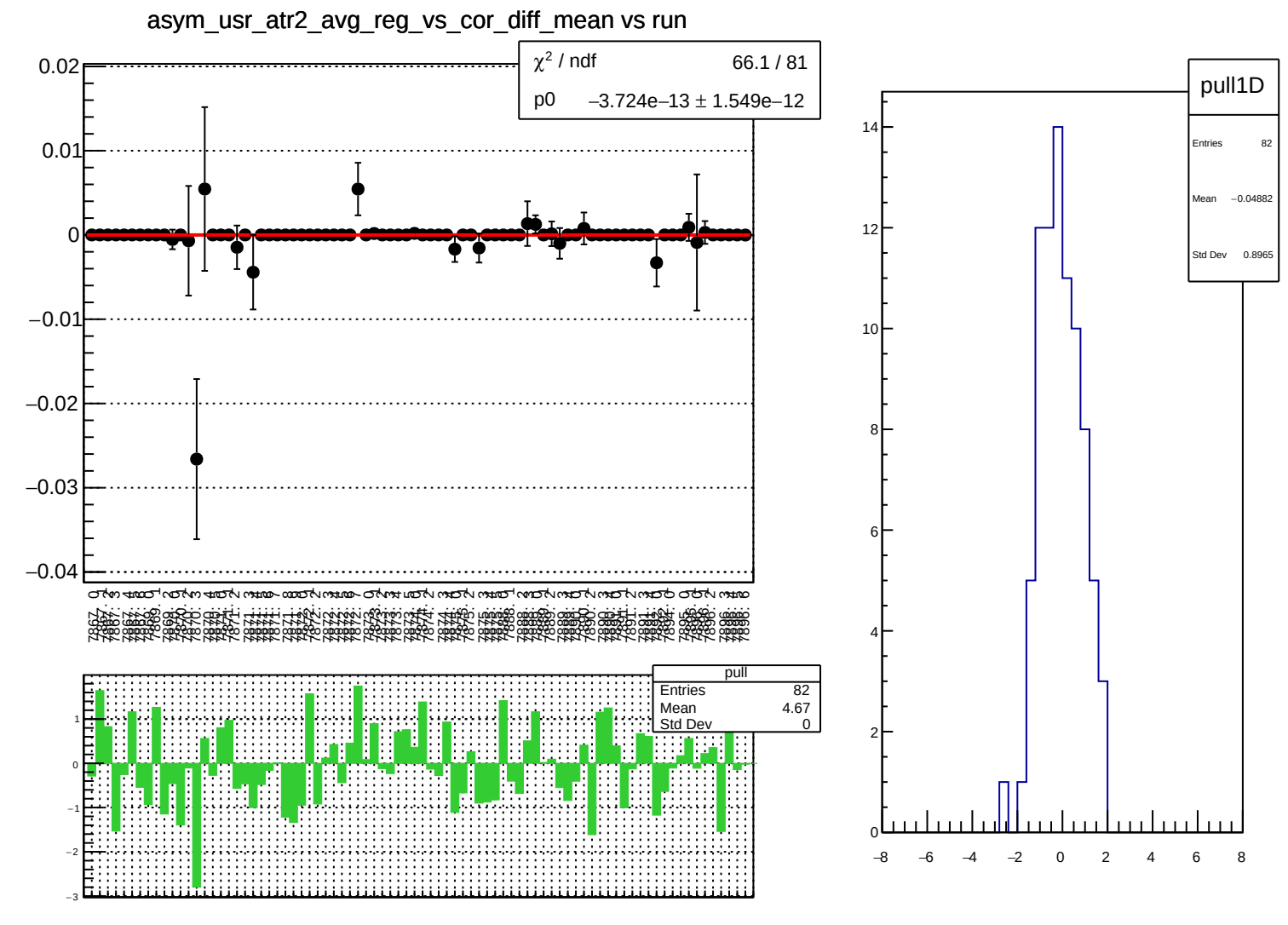

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 65.59 / 81
p0 4466 ± 9939
pull
Entries 82
Mean −108.7
Std Dev 0

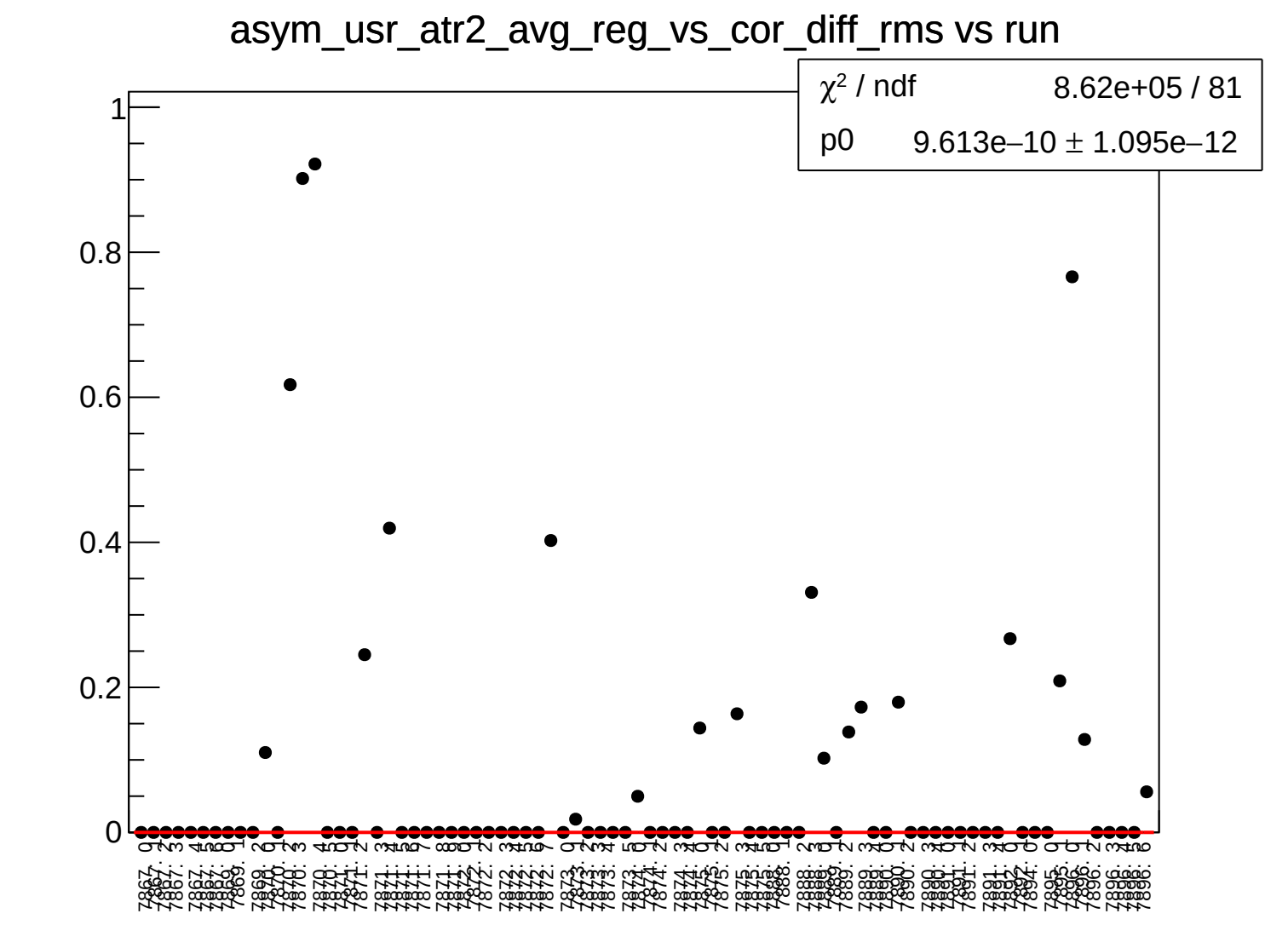

pull1D
Entries 82
Mean 0.01599
Std Dev 0.8942

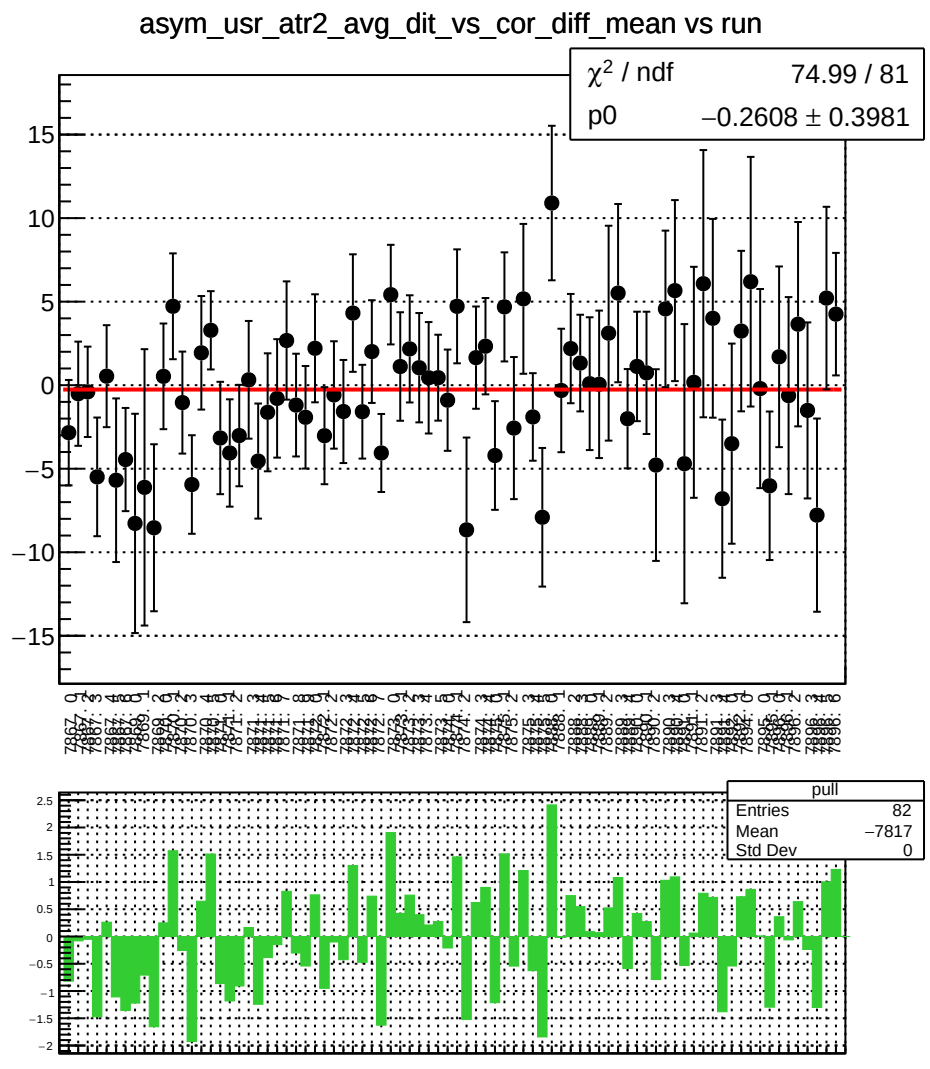

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.892e+04 / 81
p0 8899 ± 7.028
18000
16000
14000
12000
10000
8000

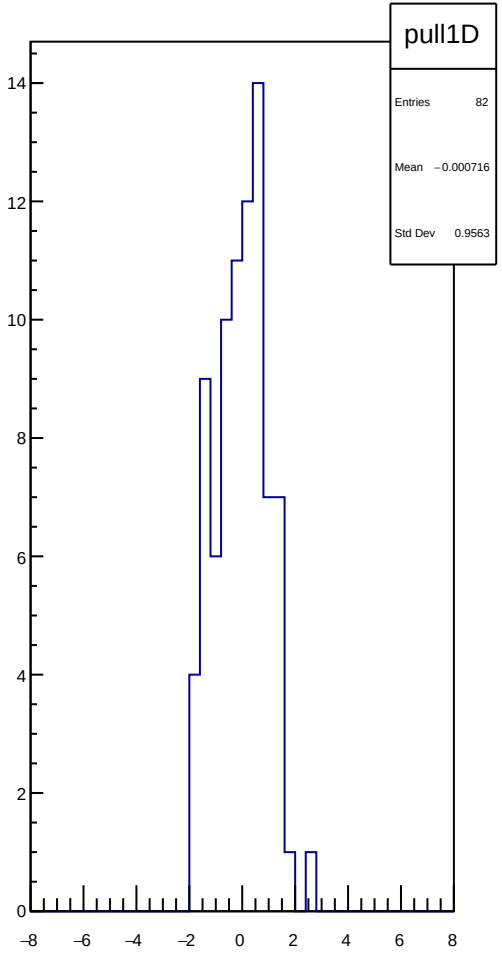

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 61.86 / 81
p0 −4216 ± 1.015e+04
pull
Entries 82
Mean −130.5
Std Dev 0
pull1D
Entries 82
Mean −0.01632
Std Dev 0.8684

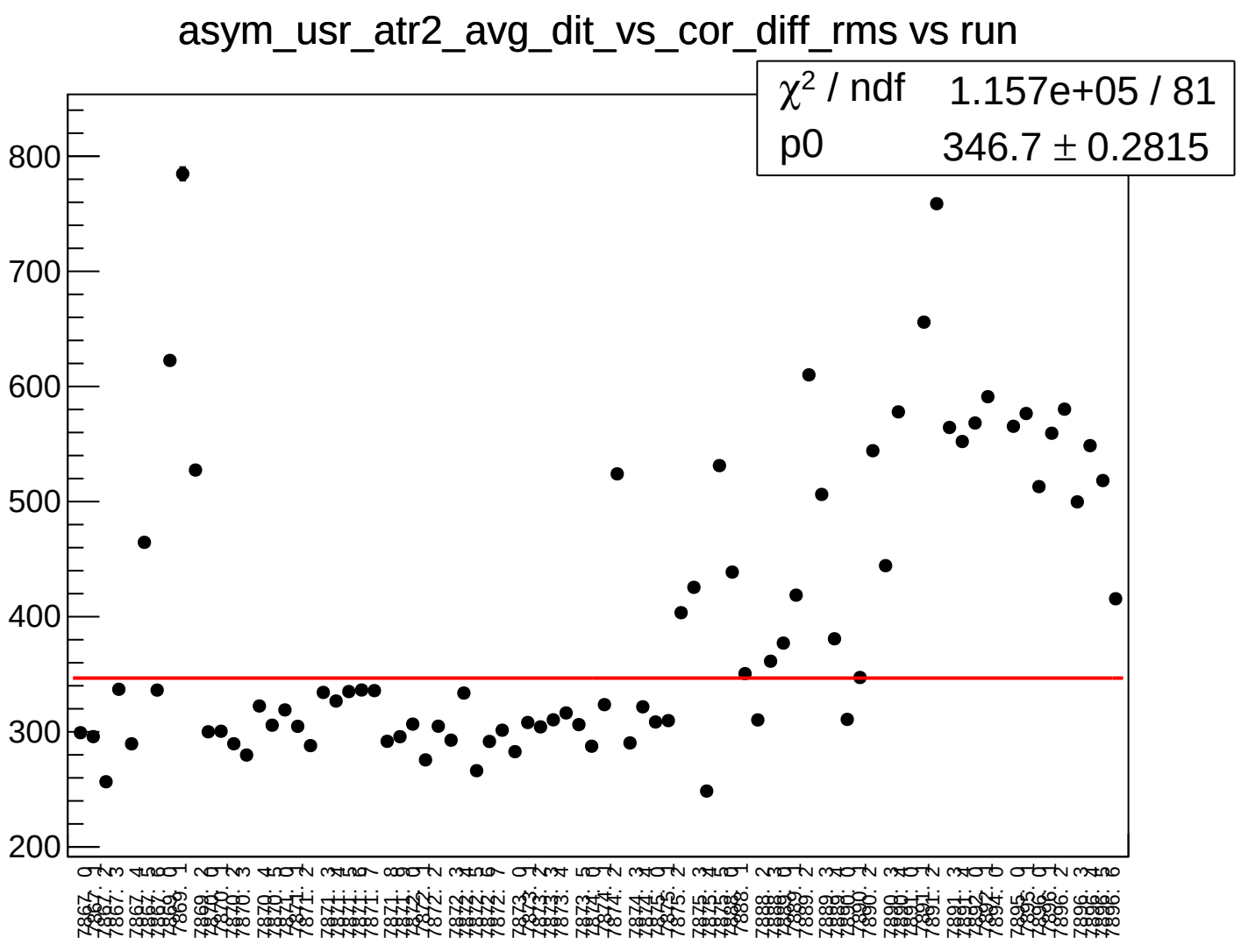

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 2.762e+04 / 81
p0 9087 ± 7.174
18000
16000
14000
12000
10000
8000

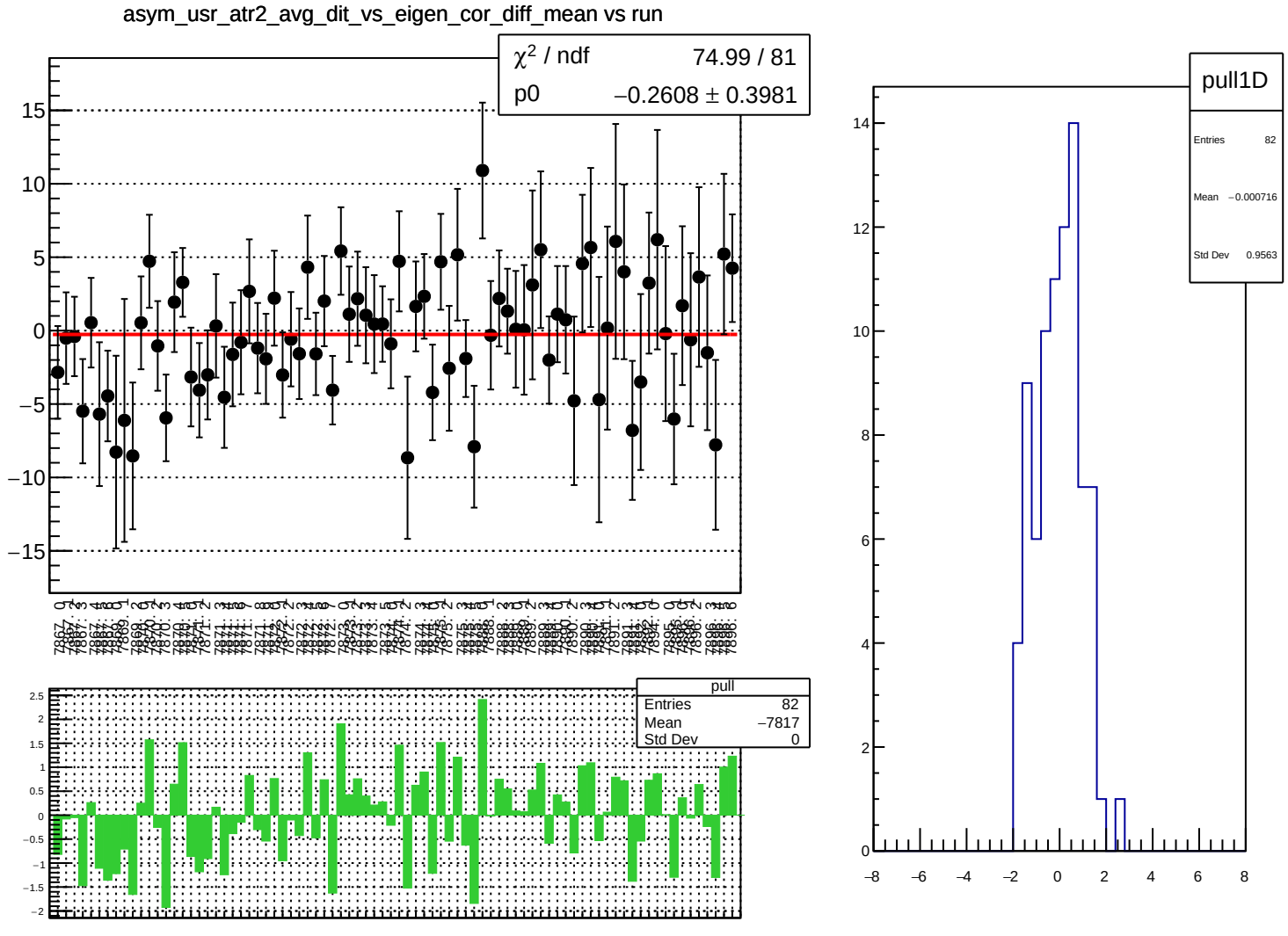

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.1 / 81
p0 −3.724e−13 ± 1.549e−12
pull
Entries 82
Mean 4.67
Std Dev 0
pull1D
Entries 82
Mean −0.04882
Std Dev 0.8965

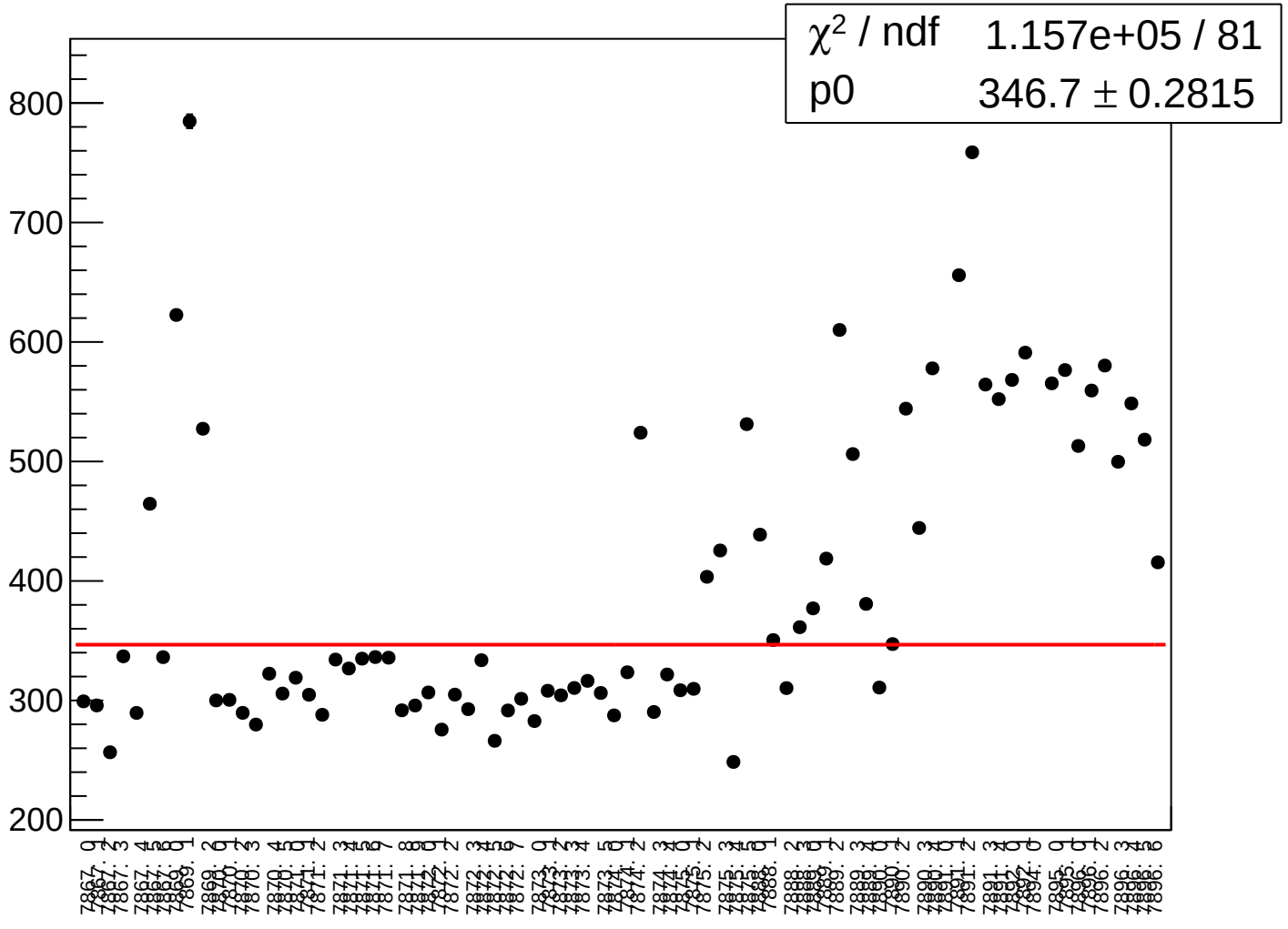

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.62e+05 / 81
p0 9.613e−10 ± 1.095e−12
1
0.8
0.6
0.4
0.2
0

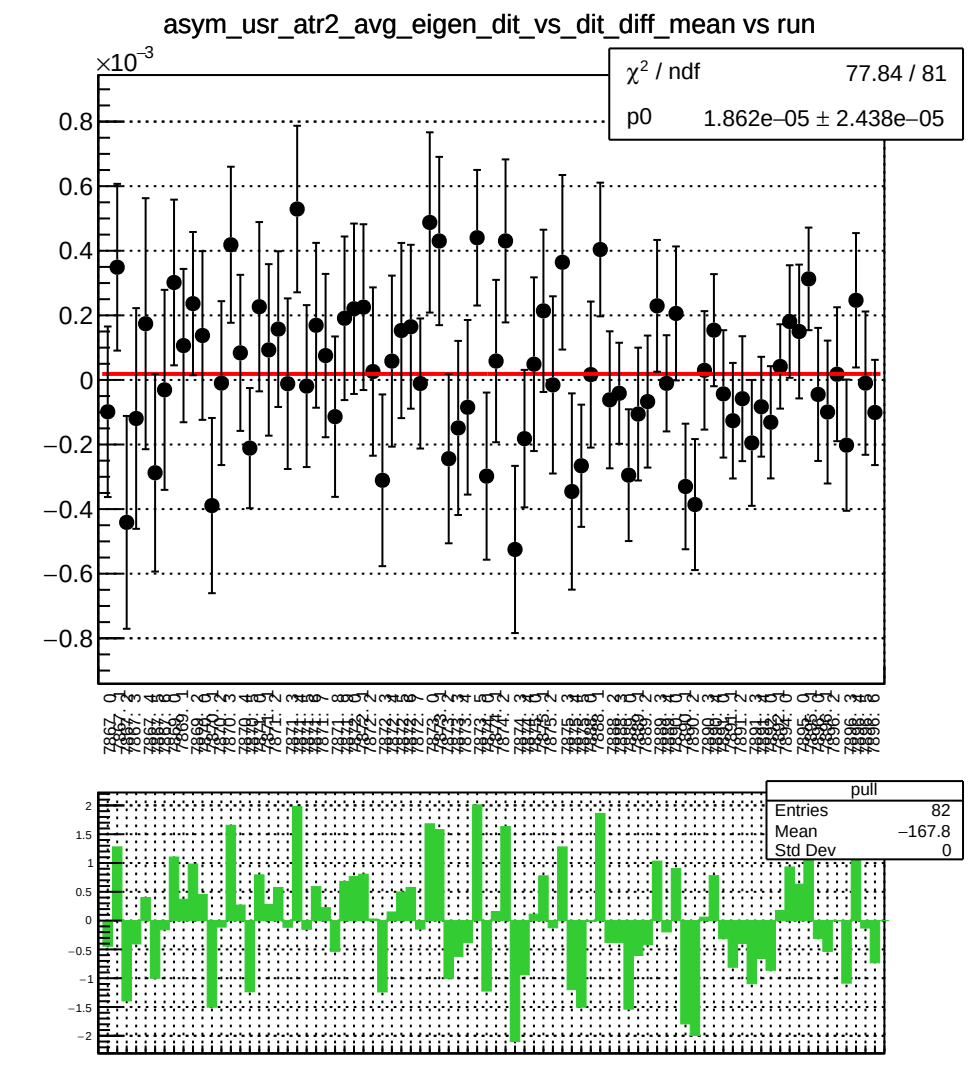

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.99 / 81
p0 −0.2608 ± 0.3981
pull
Entries 82
Mean −7817
Std Dev 0

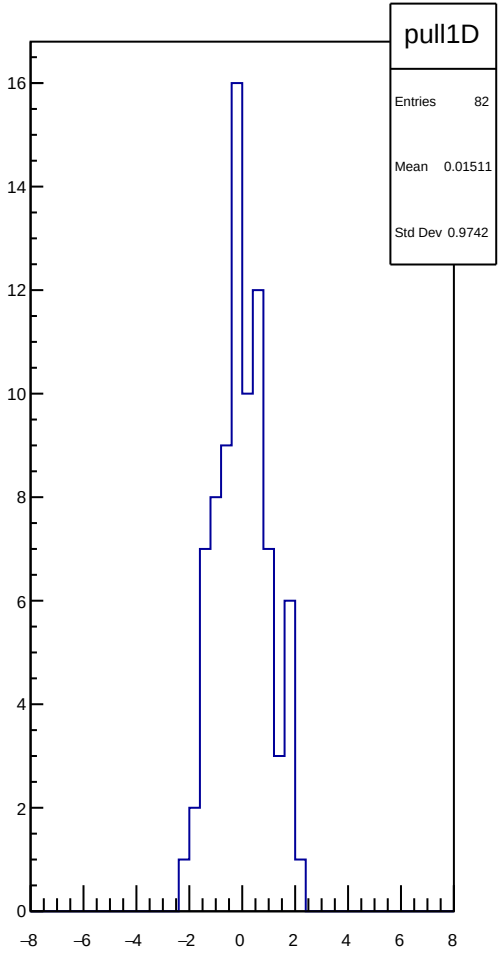

pull1D
Entries 82
Mean −0.000716
Std Dev 0.9563

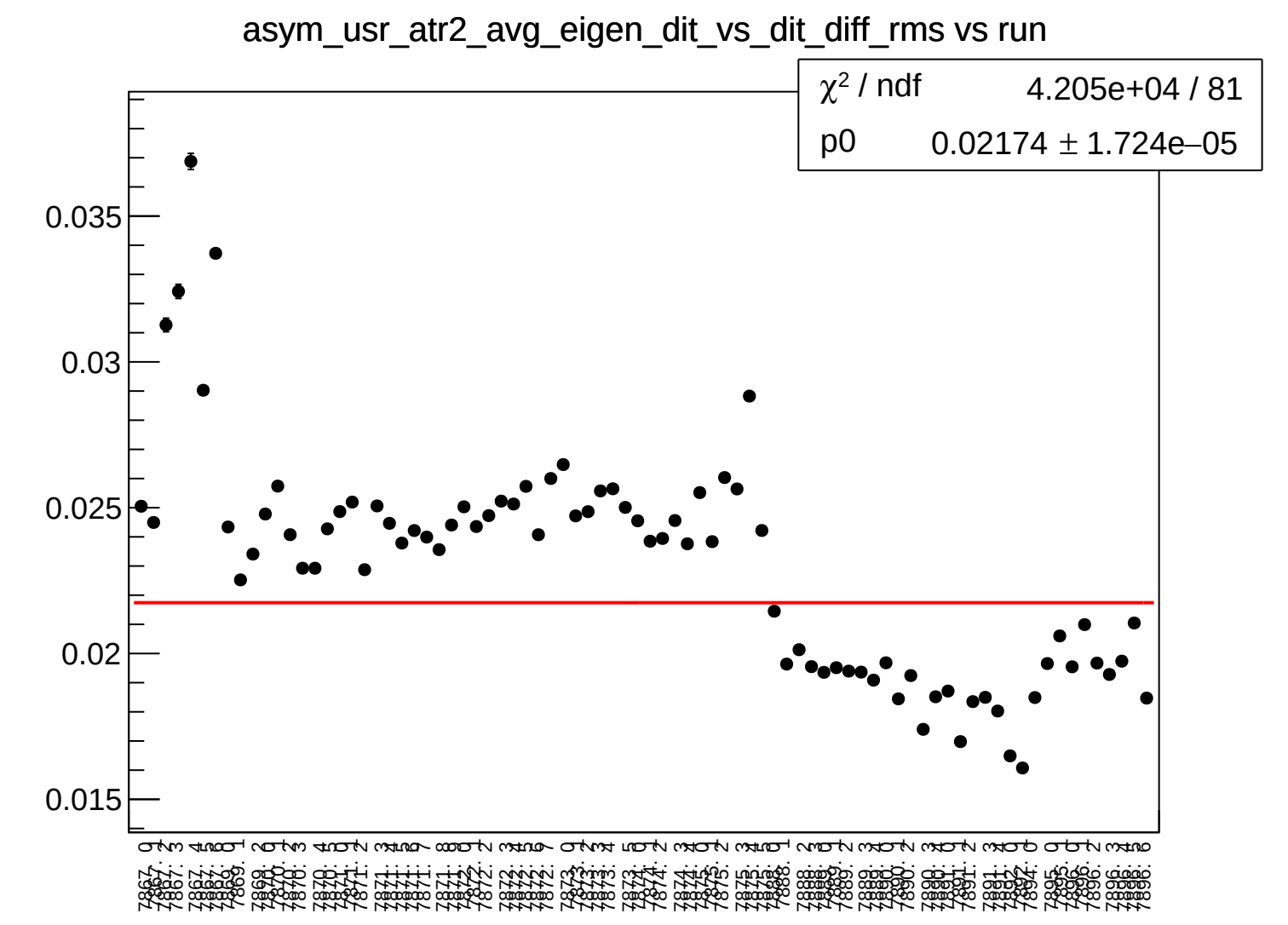

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 81
p0 346.7 ± 0.2815
800
700
600
500
400
300
200

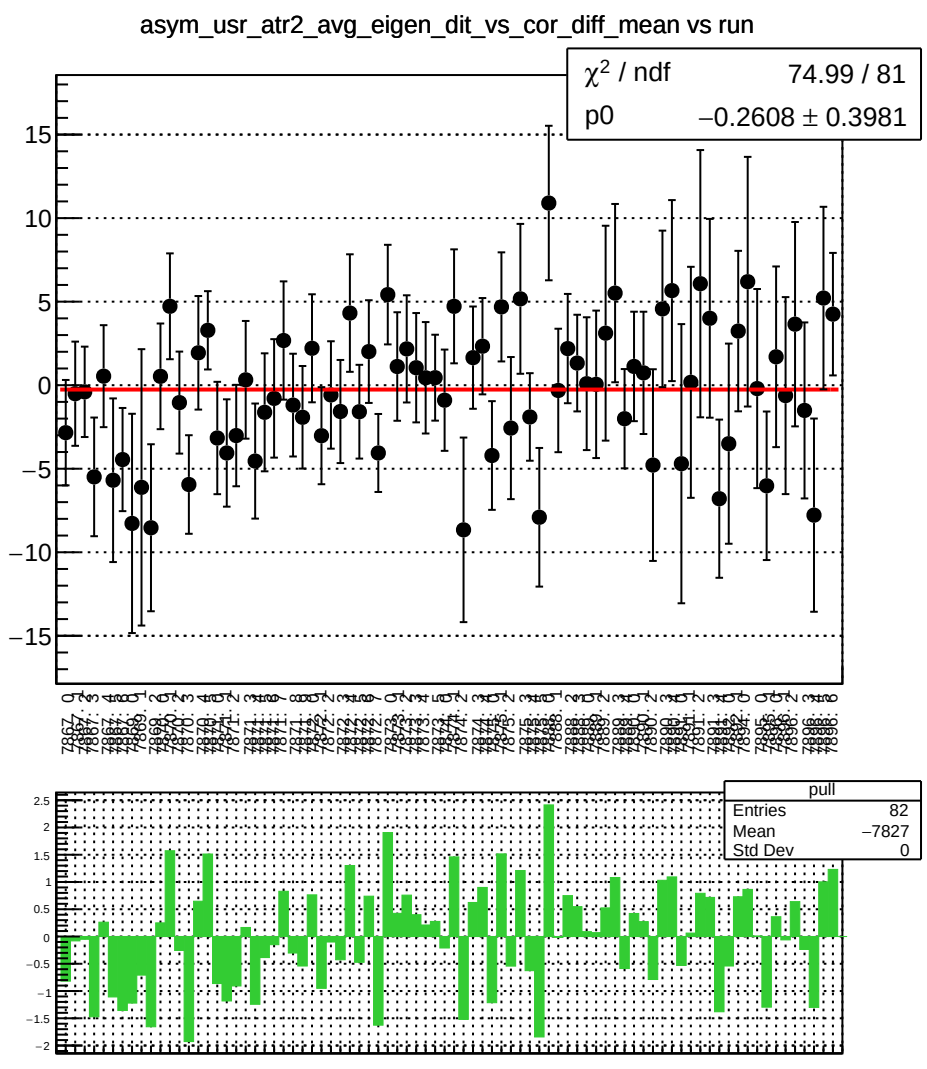

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.99 / 81
p0 −0.2608 ± 0.3981
pull
Entries 82
Mean −7817
Std Dev 0
pull1D
Entries 82
Mean −0.000716
Std Dev 0.9563

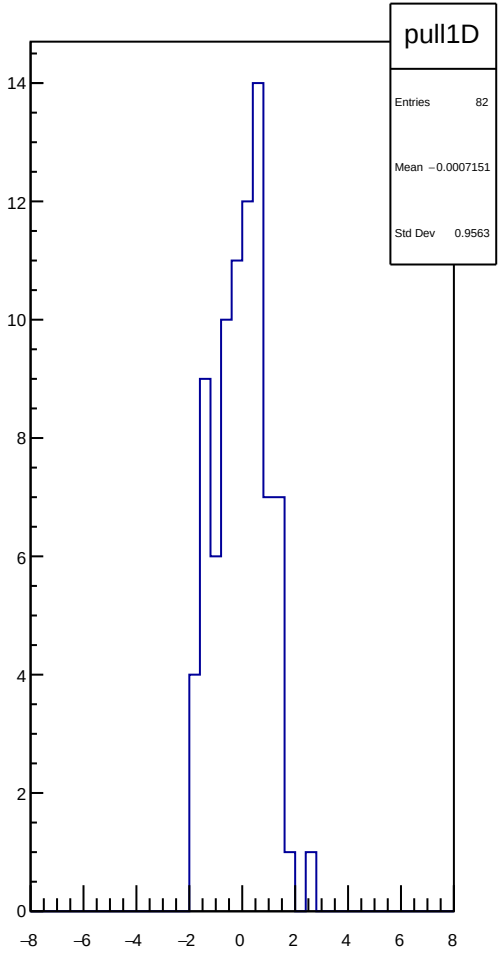

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 81
p0 346.7 ± 0.2815
800
700
600
500
400
300
200

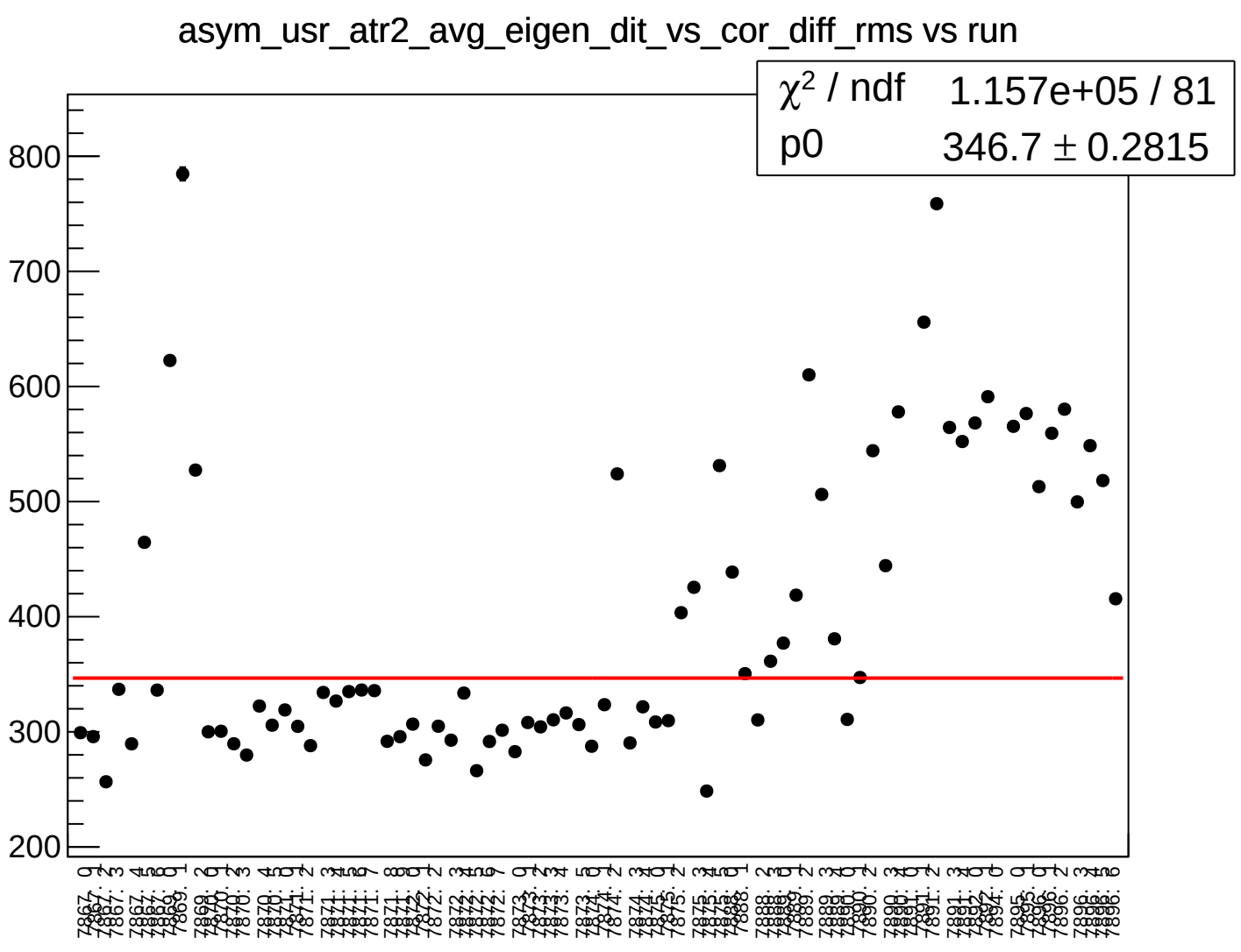

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.84 / 81
p0 1.862e−05 ± 2.438e−05
pull
Entries 82
Mean −167.8
Std Dev 0

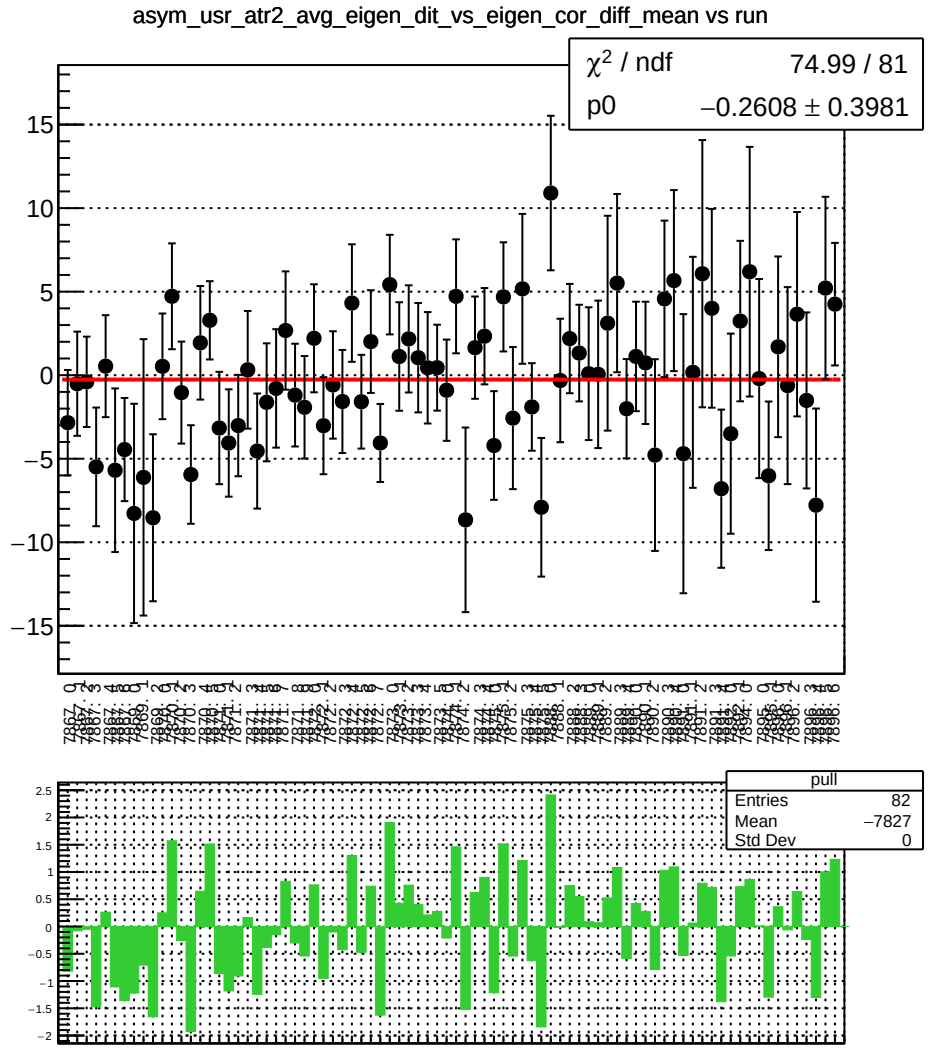

pull1D
Entries 82
Mean 0.01511
Std Dev 0.9742

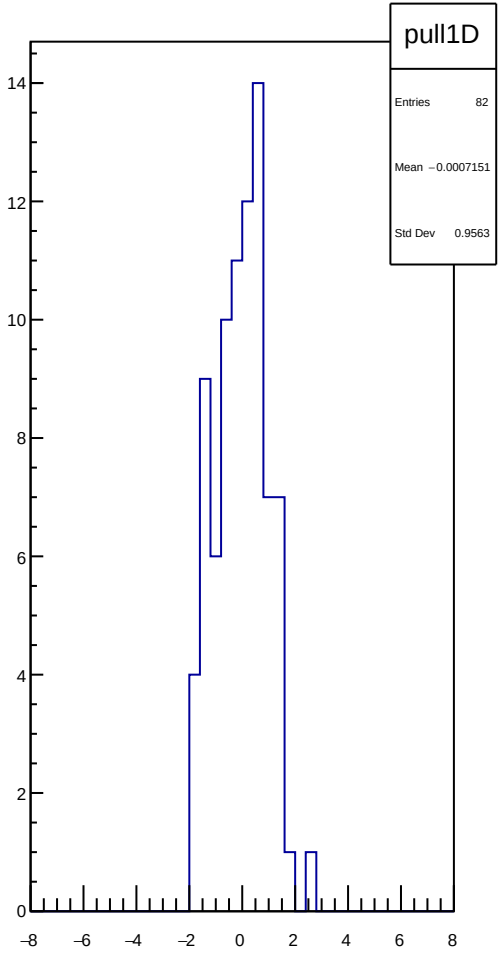

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.205e+04 / 81
p0 0.02174 ± 1.724e−05
0.035
0.03
0.025
0.02
0.015

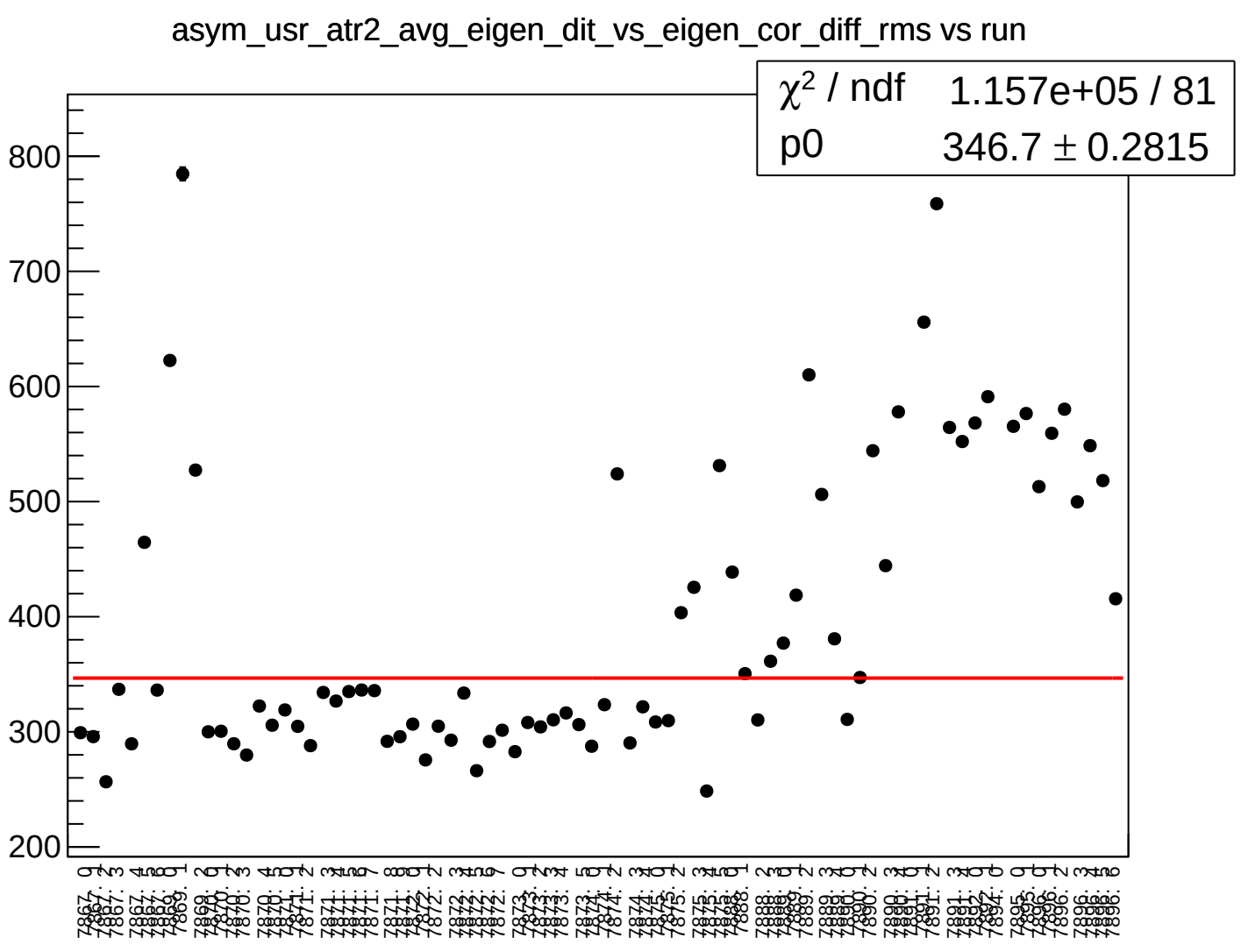

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.99 / 81
p0 −0.2608 ± 0.3981
pull
Entries 82
Mean −7827
Std Dev 0

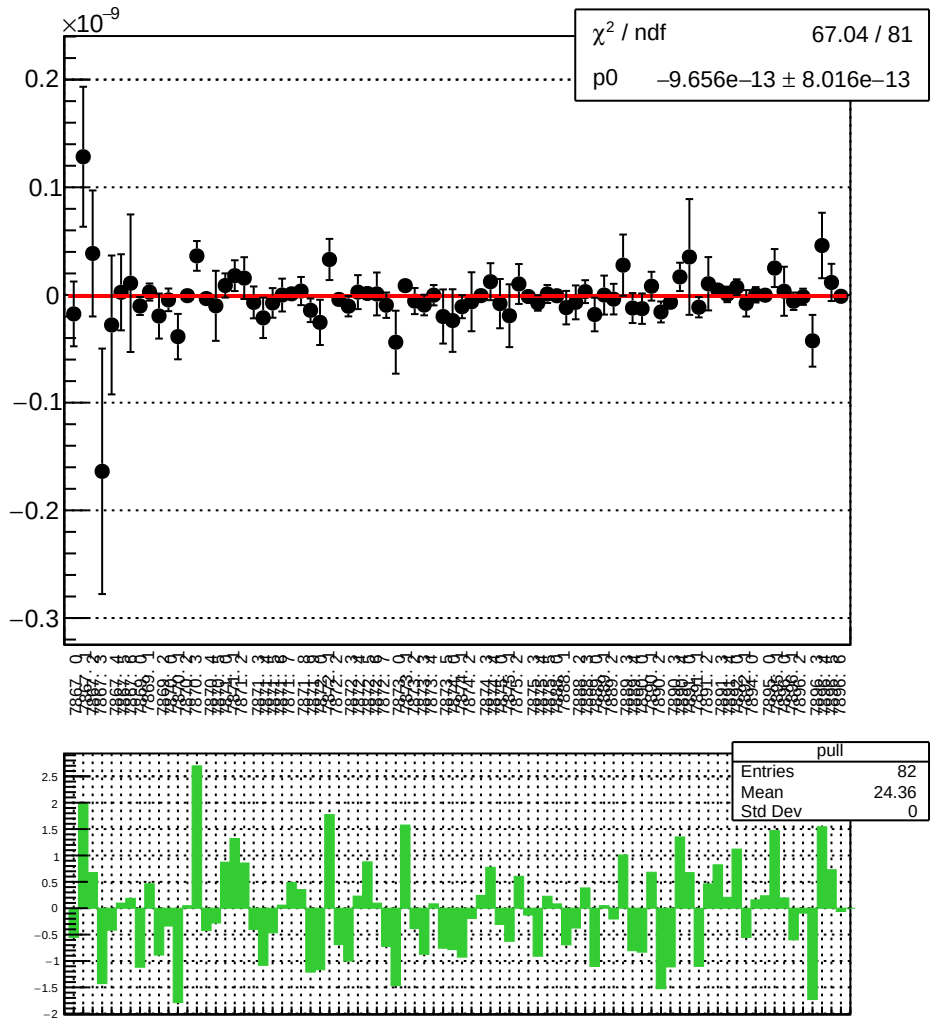

pull1D
Entries 82
Mean −0.0007151
Std Dev 0.9563

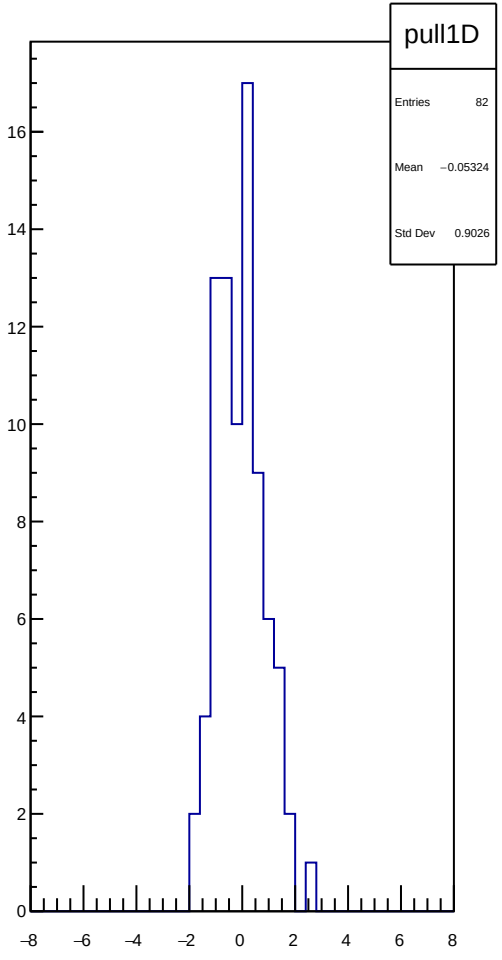

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 81
p0 346.7 ± 0.2815
800
700
600
500
400
300
200

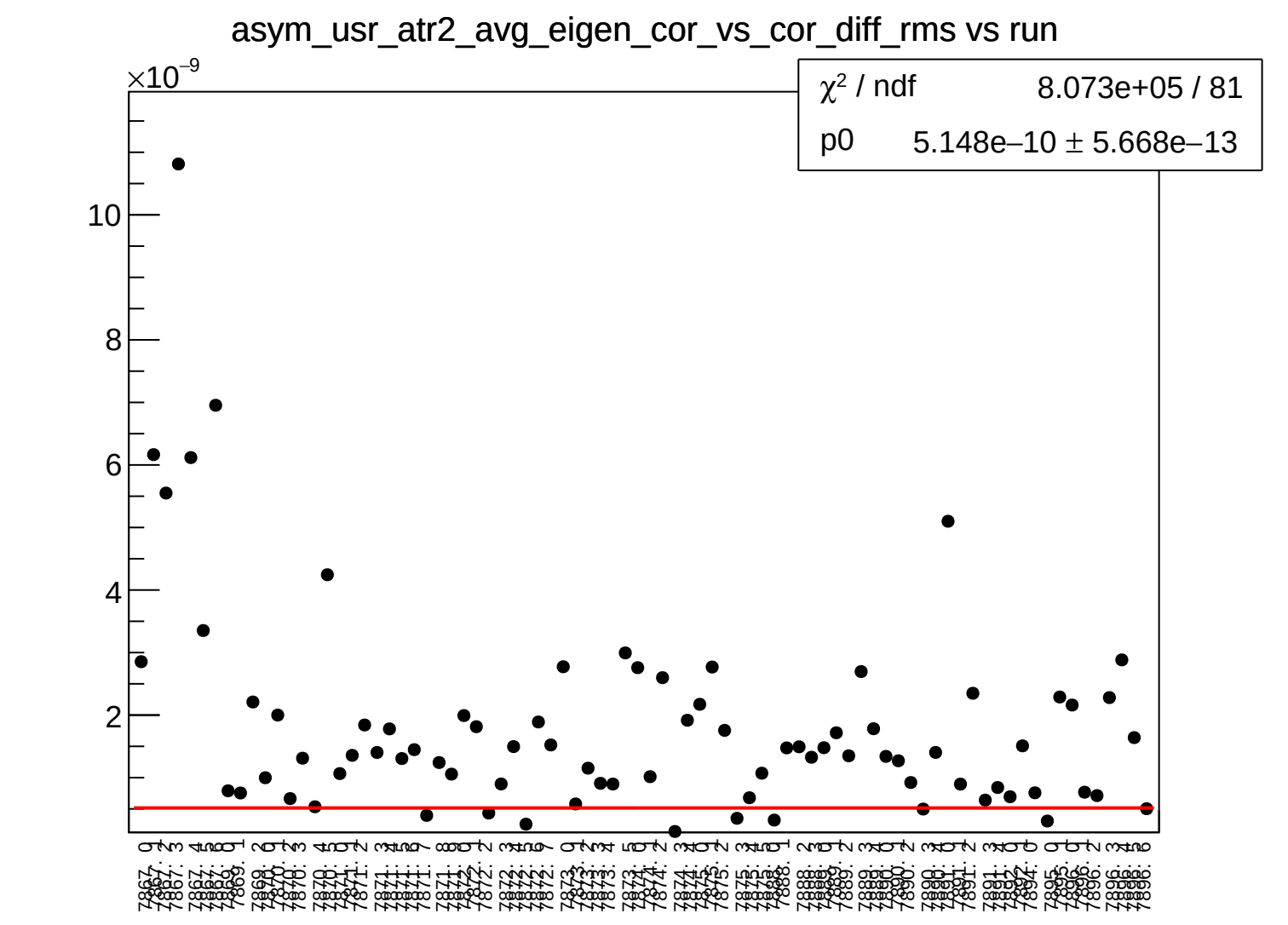

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.99 / 81
p0 −0.2608 ± 0.3981
pull
Entries 82
Mean −7827
Std Dev 0

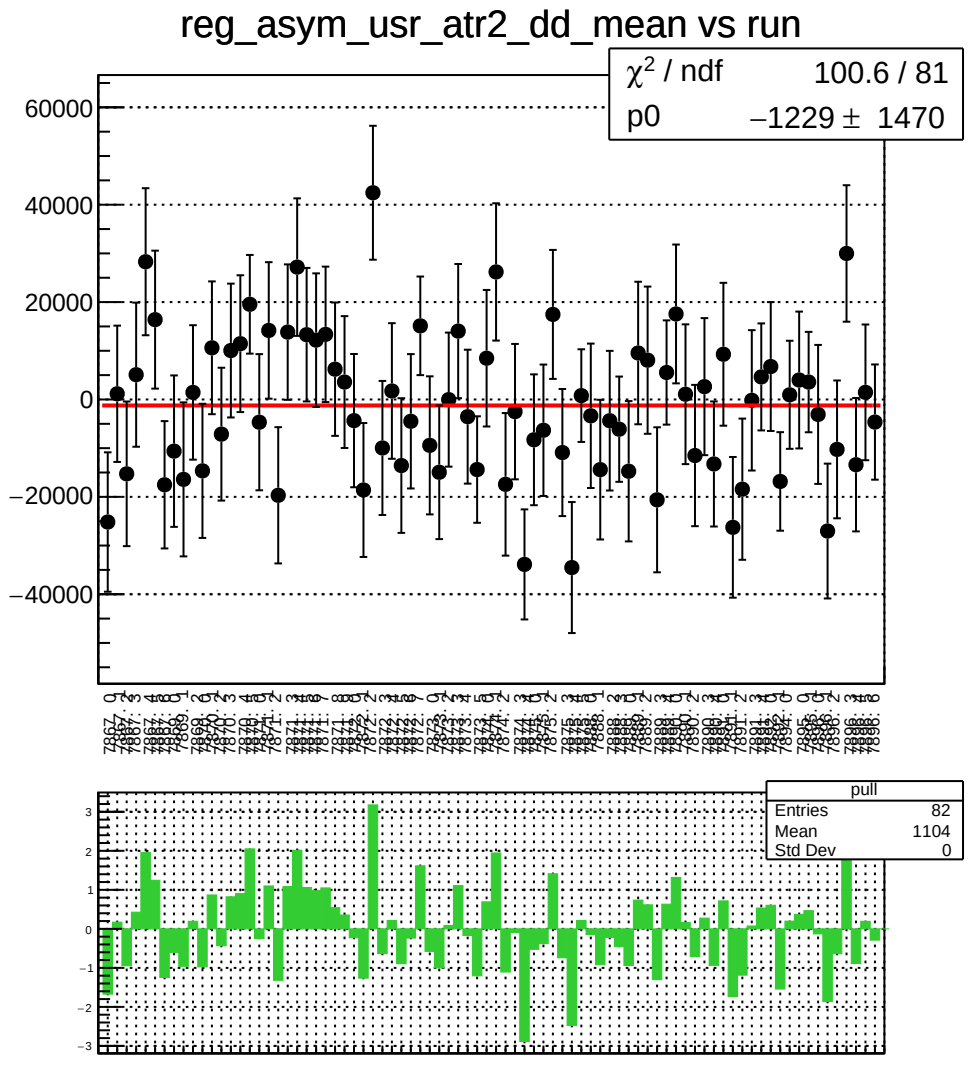

pull1D
Entries 82
Mean −0.0007151
Std Dev 0.9563

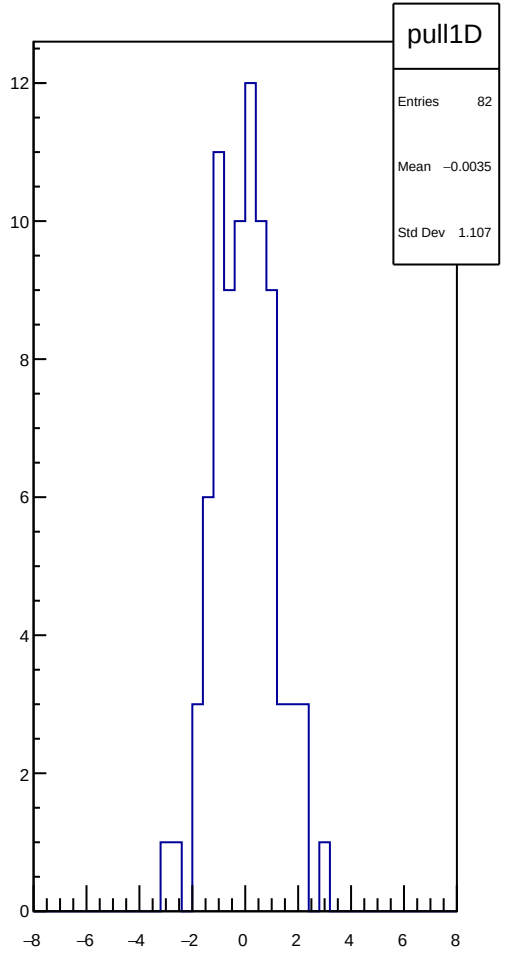

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 81
p0 346.7 ± 0.2815
800
700
600
500
400
300
200

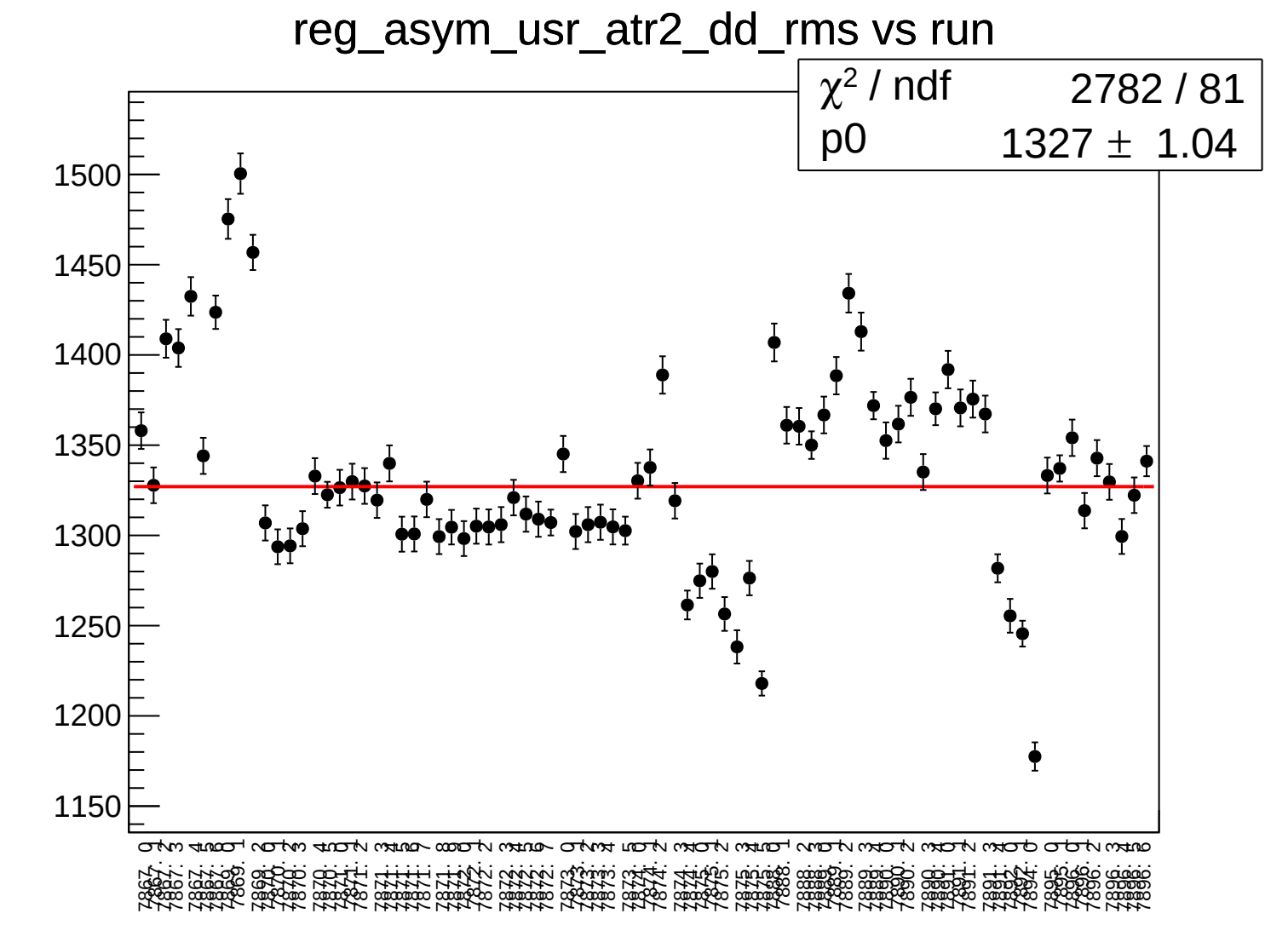

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 67.04 / 81
p0 −9.656e−13 ± 8.016e−13
pull
Entries 82
Mean 24.36
Std Dev 0

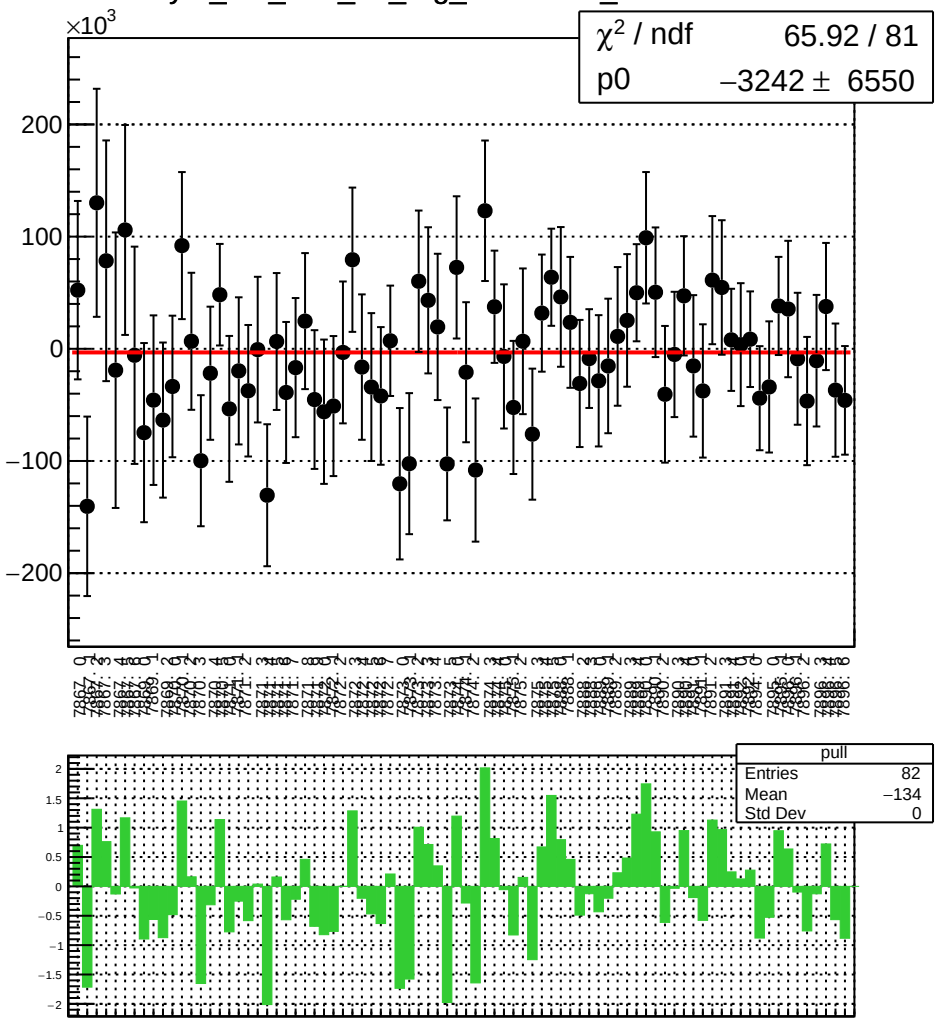

pull1D
Entries 82
Mean −0.05324
Std Dev 0.9026

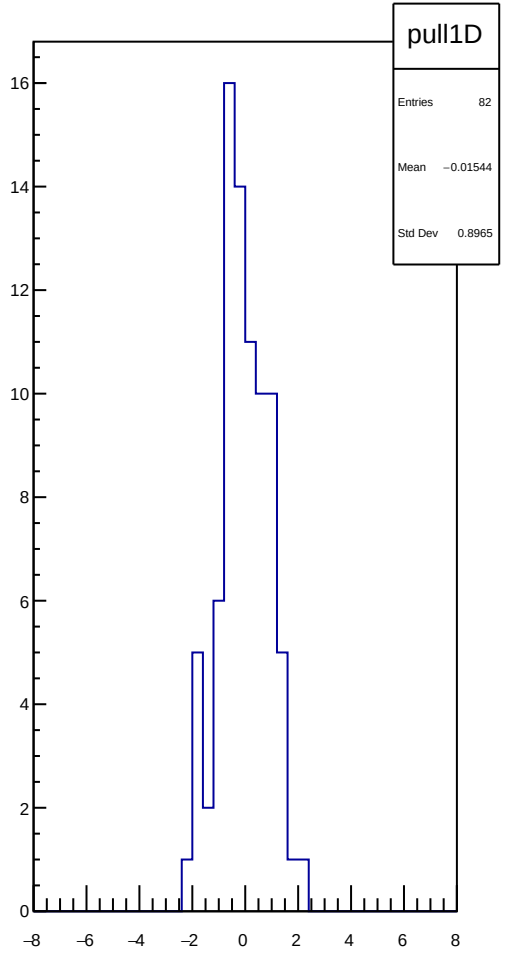

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.073e+05 / 81
p0 5.148e−10 ± 5.668e−13
10
8
6
4
2

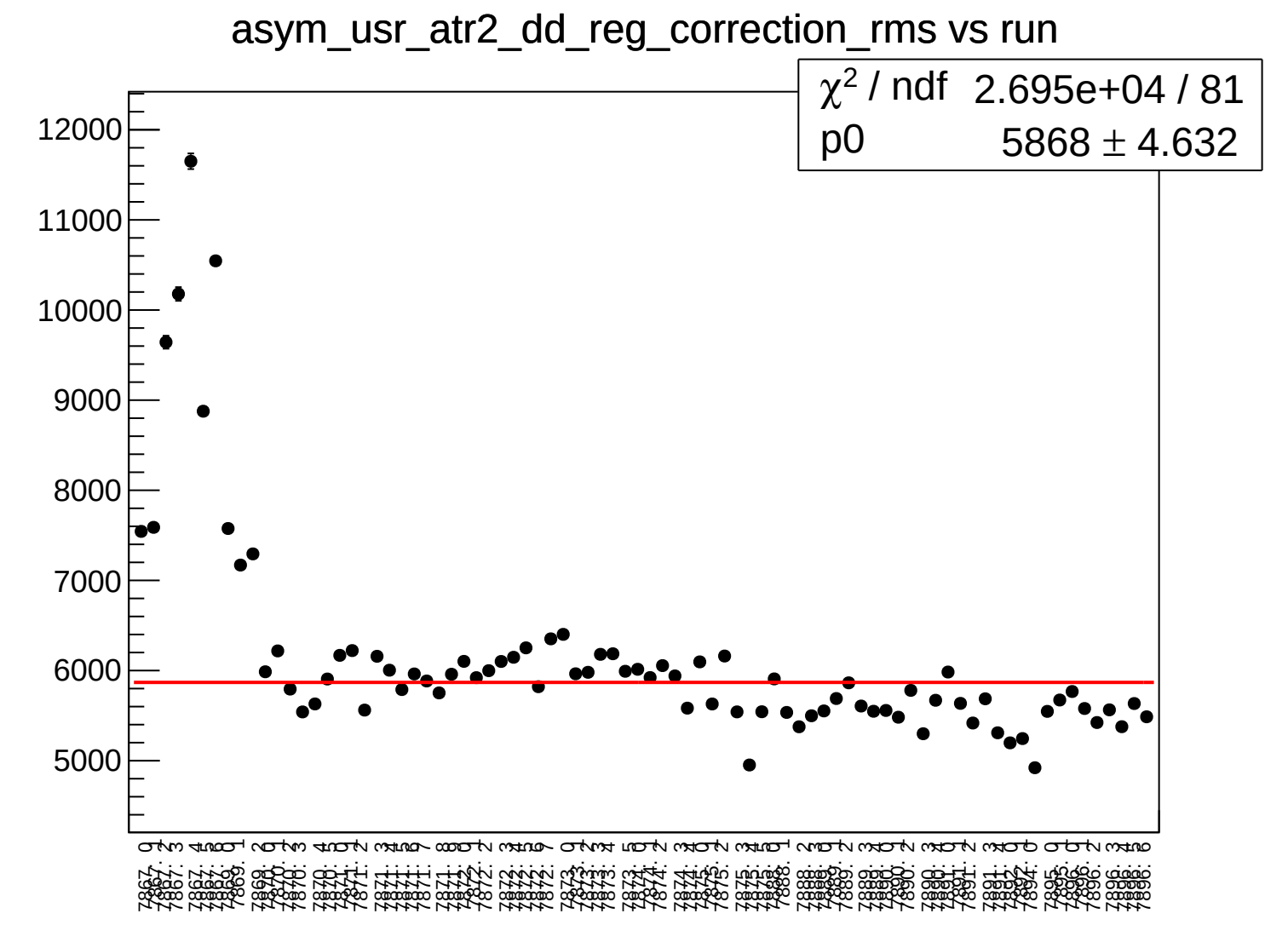

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 100.6 / 81
p0 −1229 ± 1470
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1104
Std Dev 0
3
2
1
0
−1
−2
−3

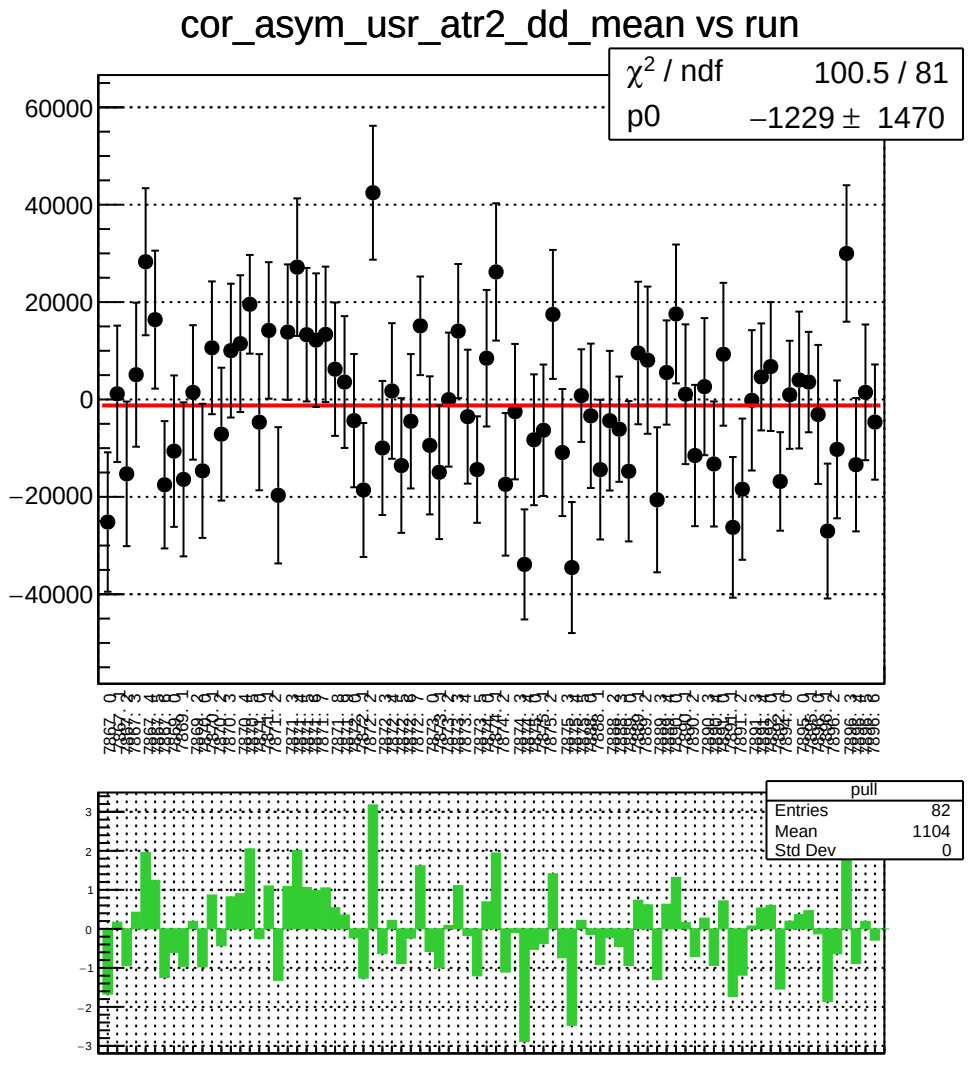

pull1D
Entries 82
Mean −0.0035
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

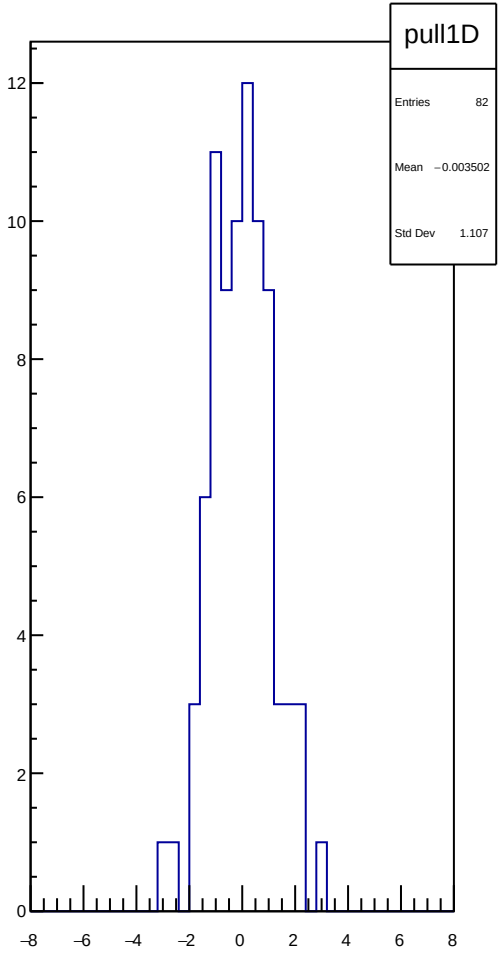

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 2782 / 81
p0 1327 ± 1.04
1500
1450
1400
1350
1300
1250
1200
1150

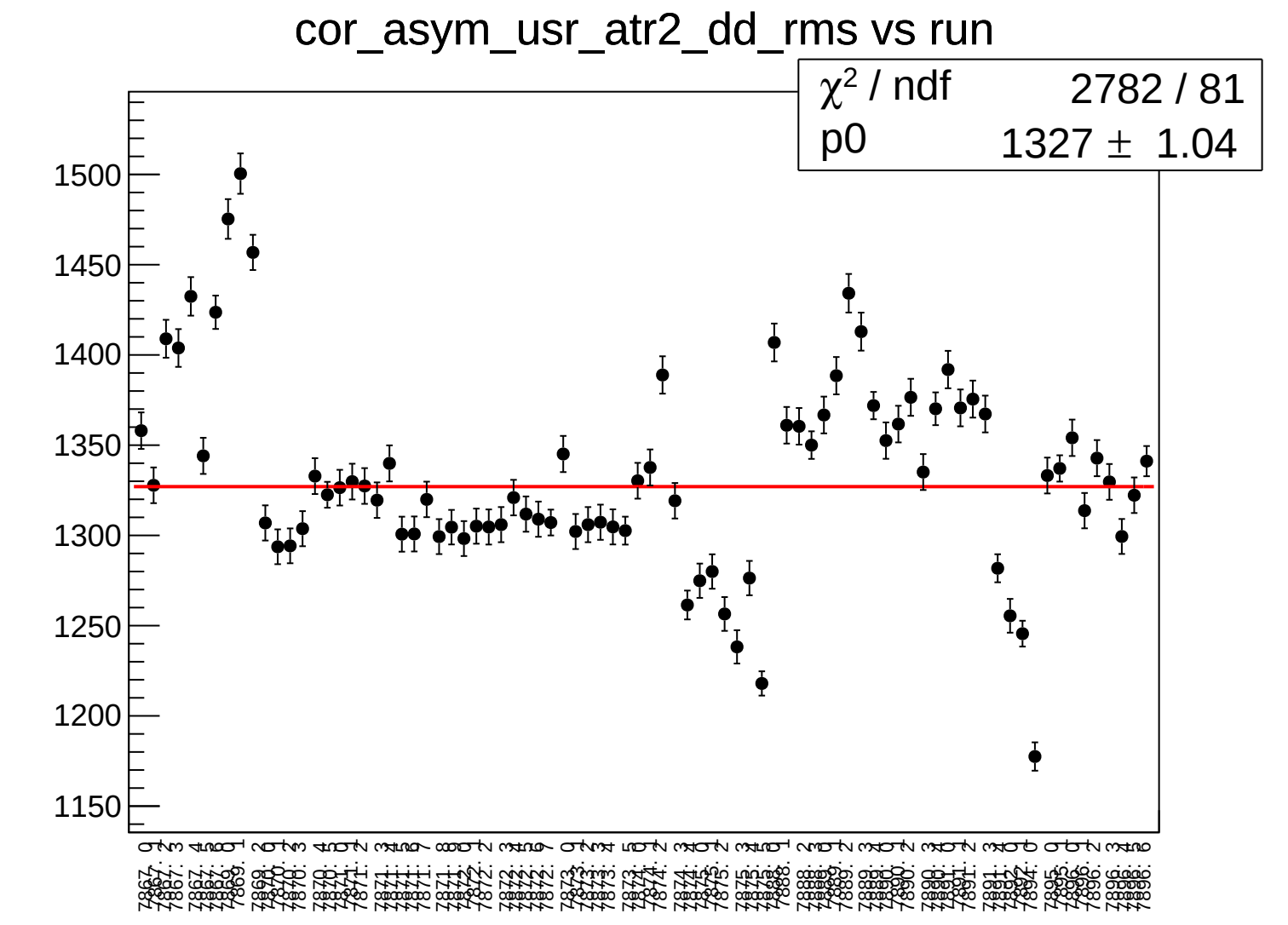

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 65.92 / 81
p0 −3242 ± 6550
200
100
0
−100
−200
pull
Entries 82
Mean −134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

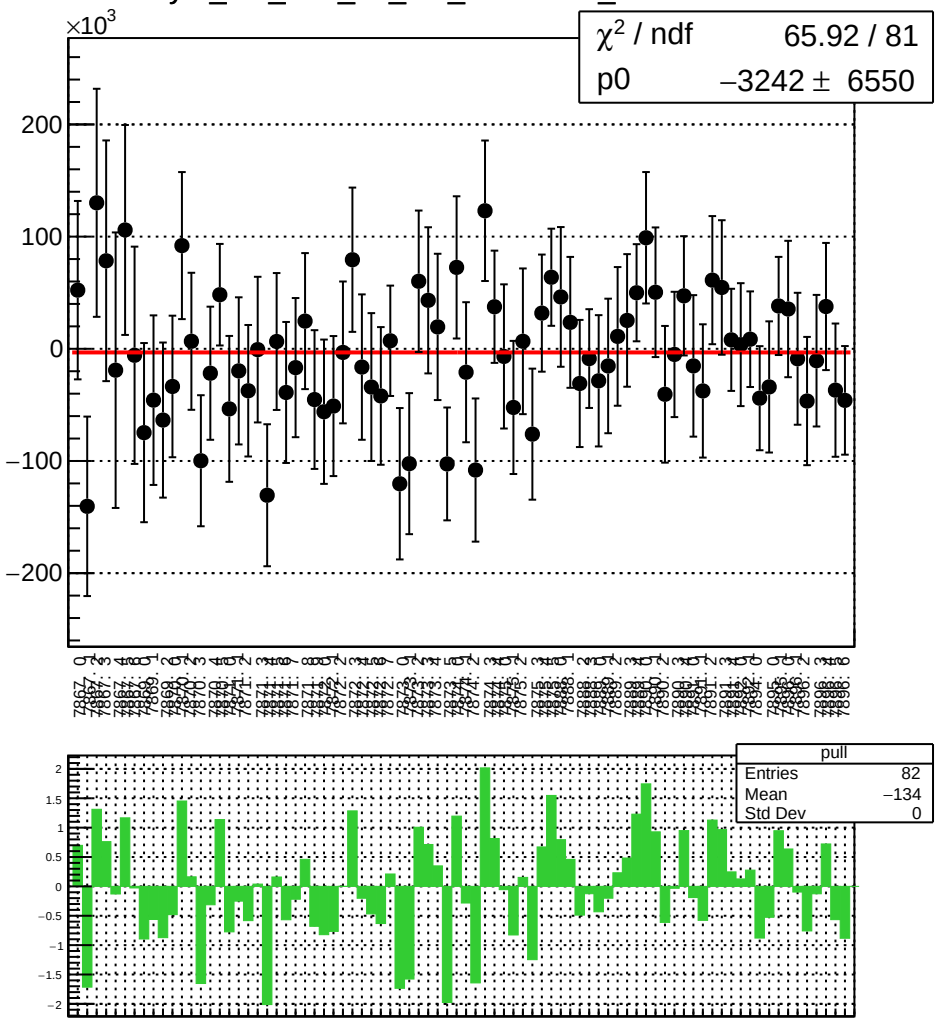

pull1D
Entries 82
Mean −0.01544
Std Dev 0.8965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

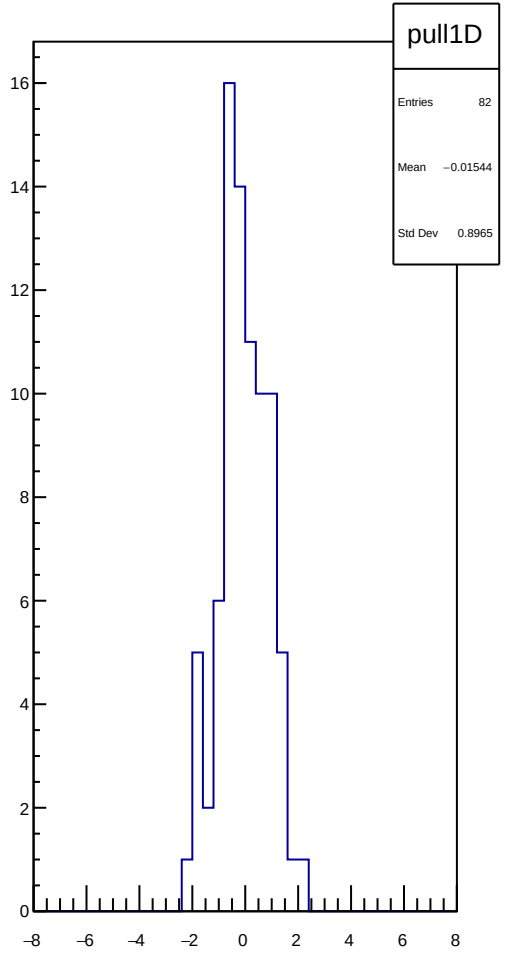

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 2.695e+04 / 81
p0 5868 ± 4.632
12000
11000
10000
9000
8000
7000
6000
5000

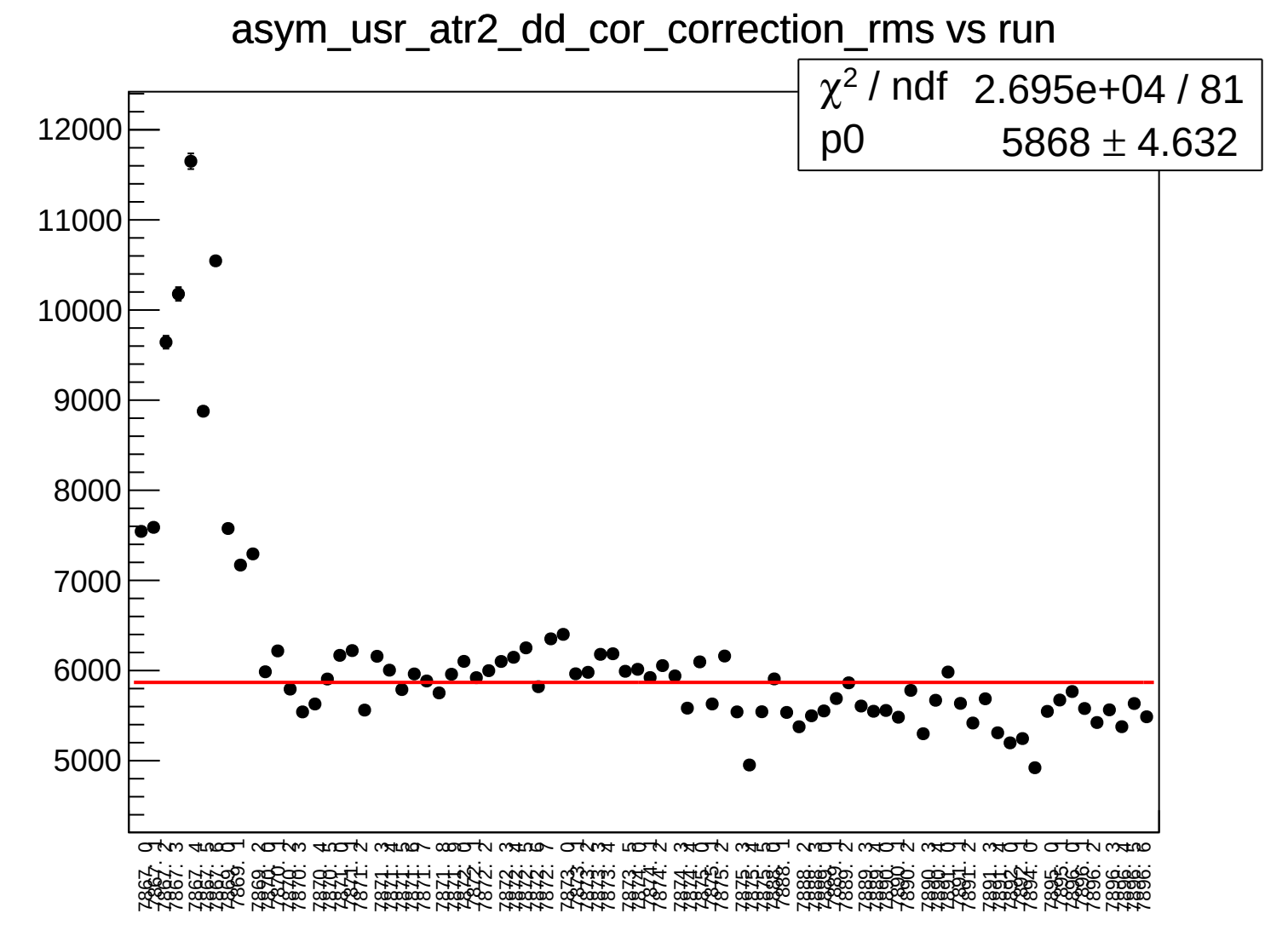

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 100.5 / 81
p0 −1229 ± 1470
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1104
Std Dev 0
3
2
1
0
−1
−2
−3

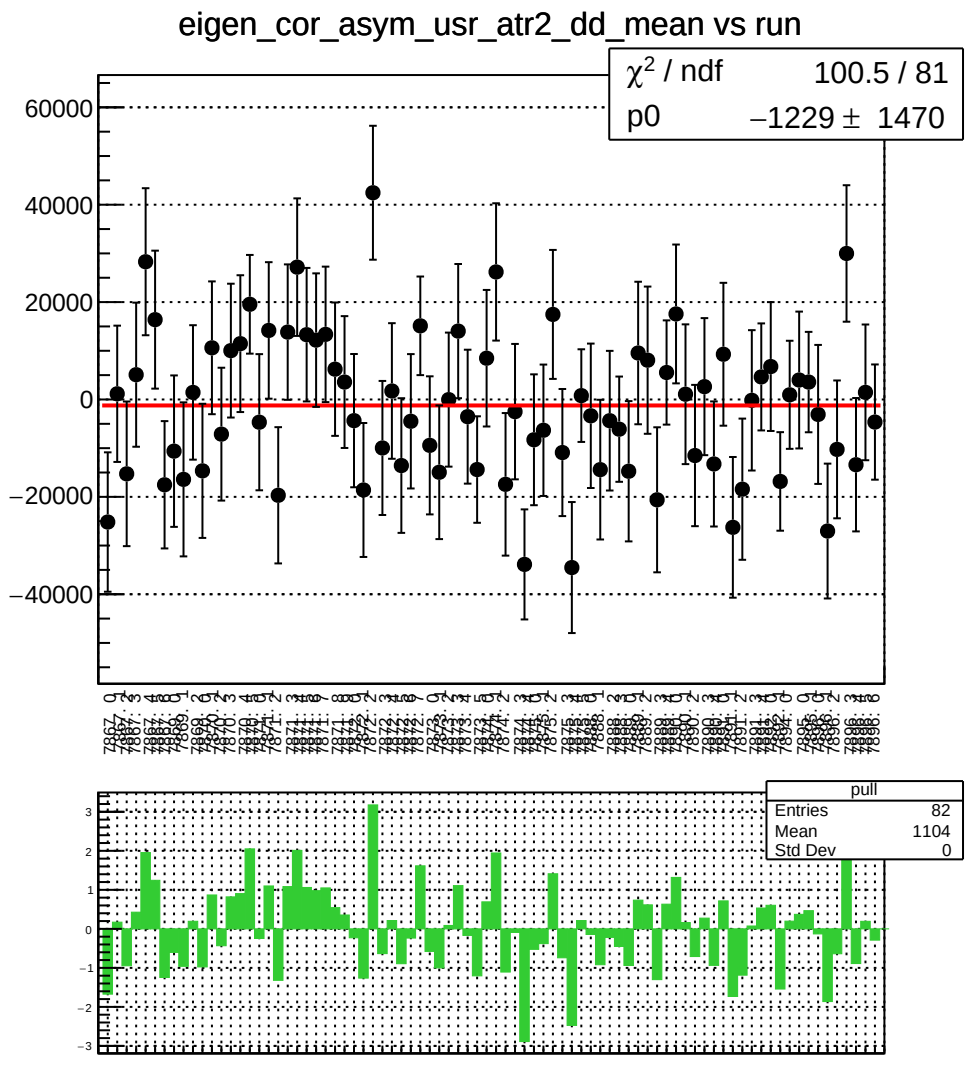

pull1D
Entries 82
Mean −0.003502
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

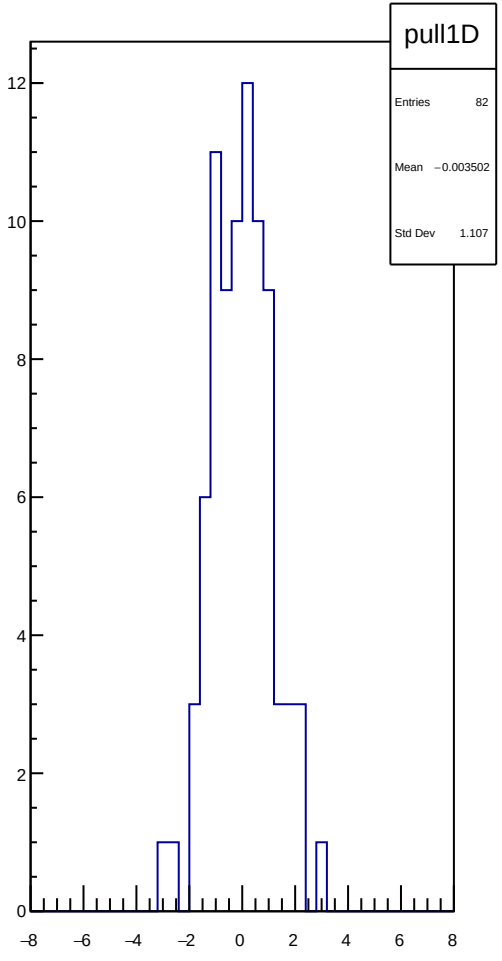

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2782 / 81
p0 1327 ± 1.04
1500
1450
1400
1350
1300
1250
1200
1150

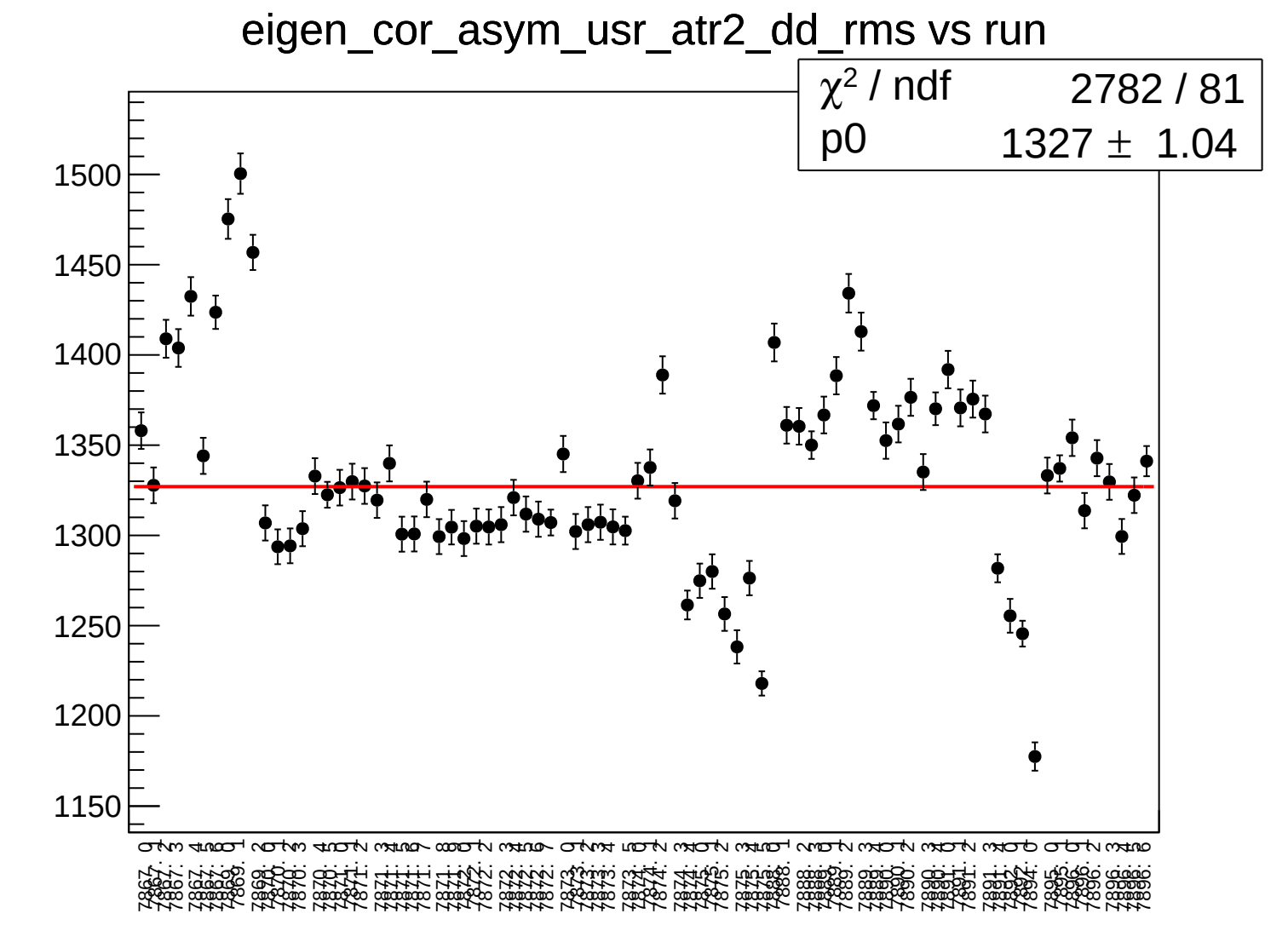

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.92 / 81
p0 −3242 ± 6550
200
100
0
−100
−200
pull
Entries 82
Mean −134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

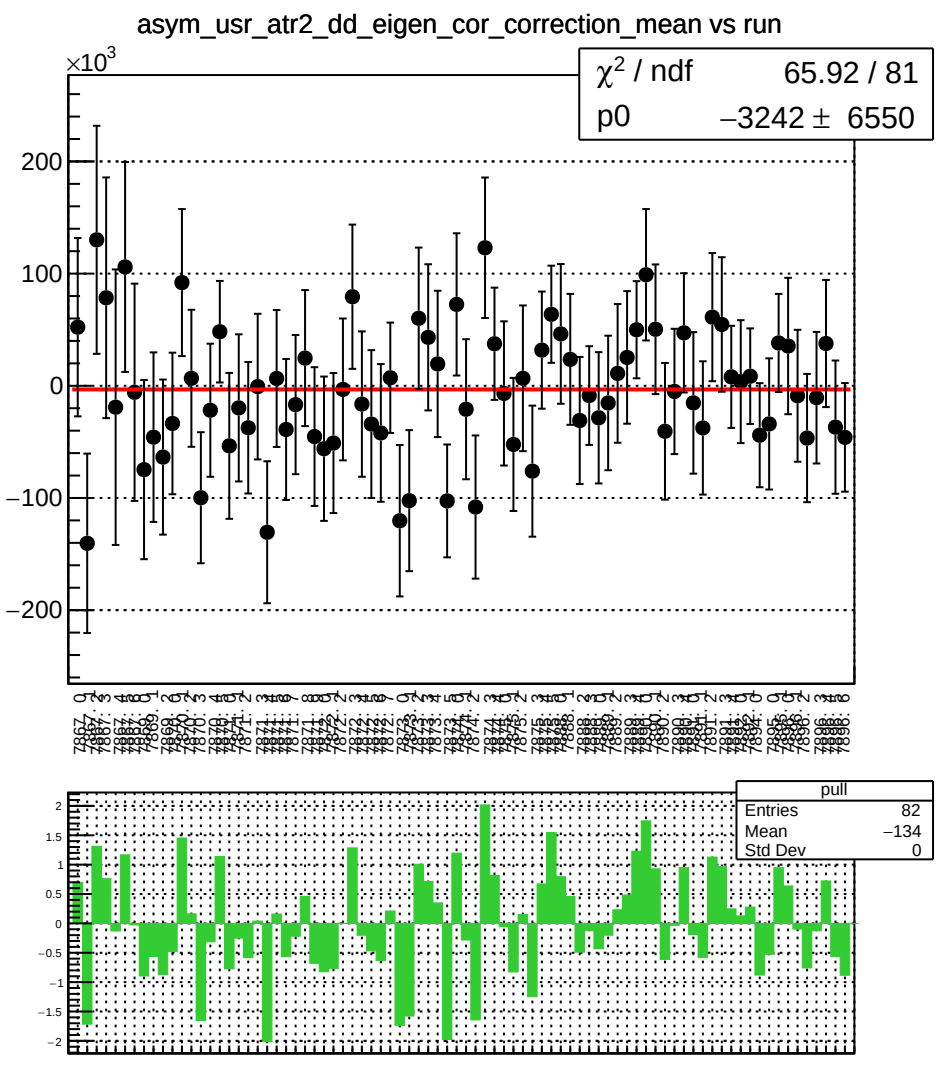

pull1D
Entries 82
Mean −0.01544
Std Dev 0.8965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

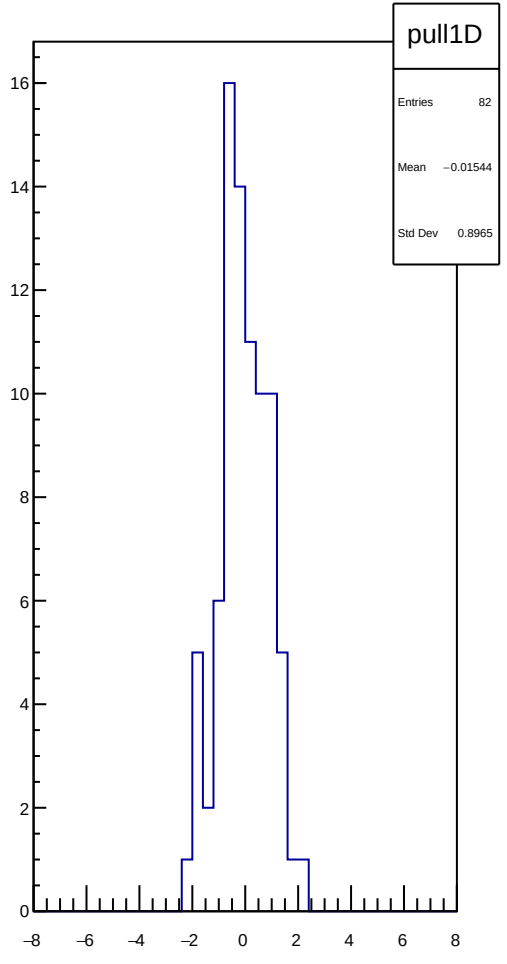

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 2.695e+04 / 81
p0 5868 ± 4.632
12000
11000
10000
9000
8000
7000
6000
5000

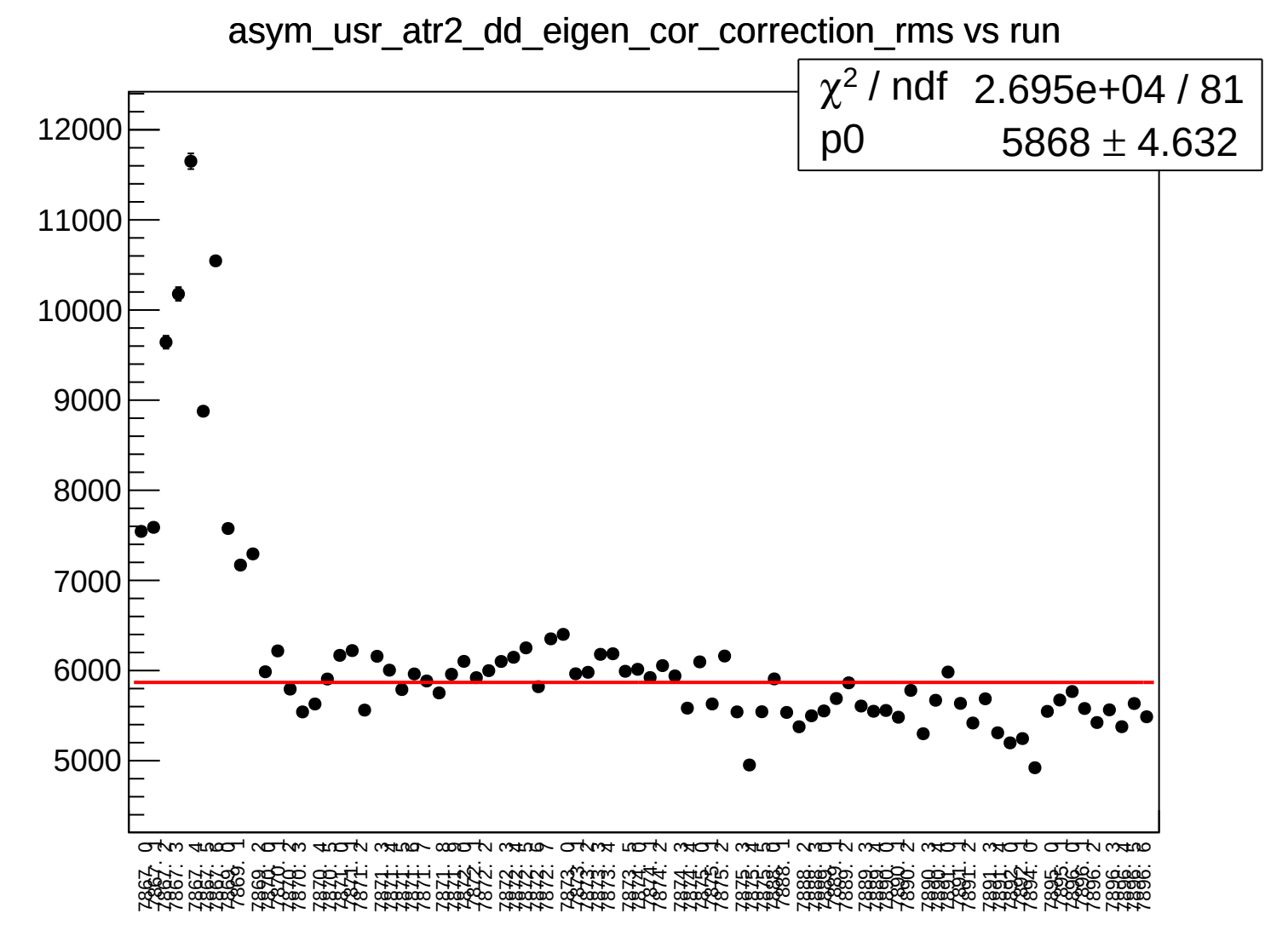

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 100.5 / 81
p0 −1229 ± 1470
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 1104
Std Dev 0
3
2
1
0
−1
−2
−3

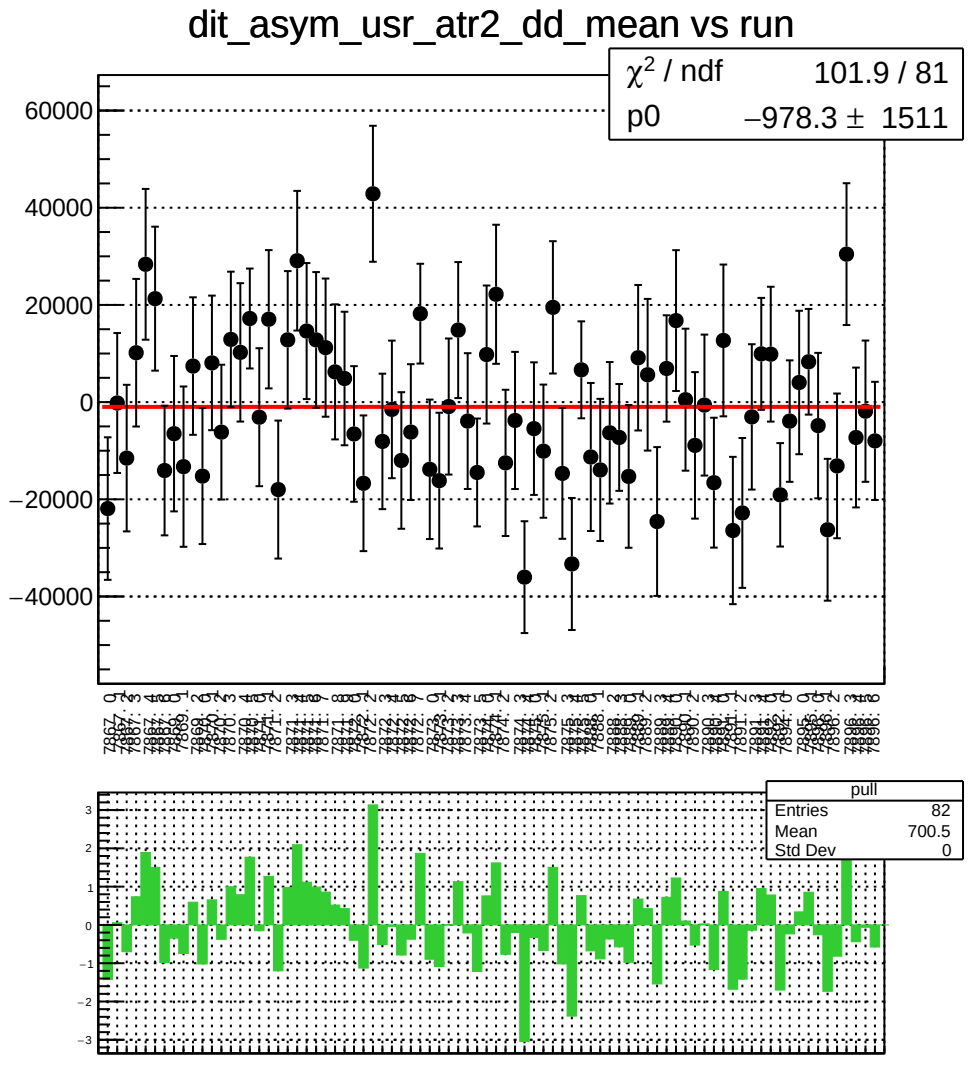

pull1D
Entries 82
Mean −0.003502
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

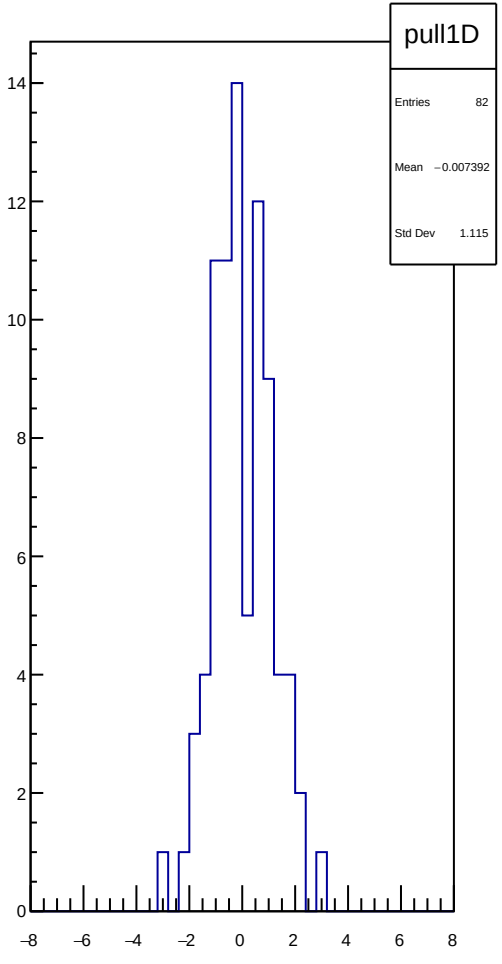

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2782 / 81
p0 1327 ± 1.04
1500
1450
1400
1350
1300
1250
1200
1150

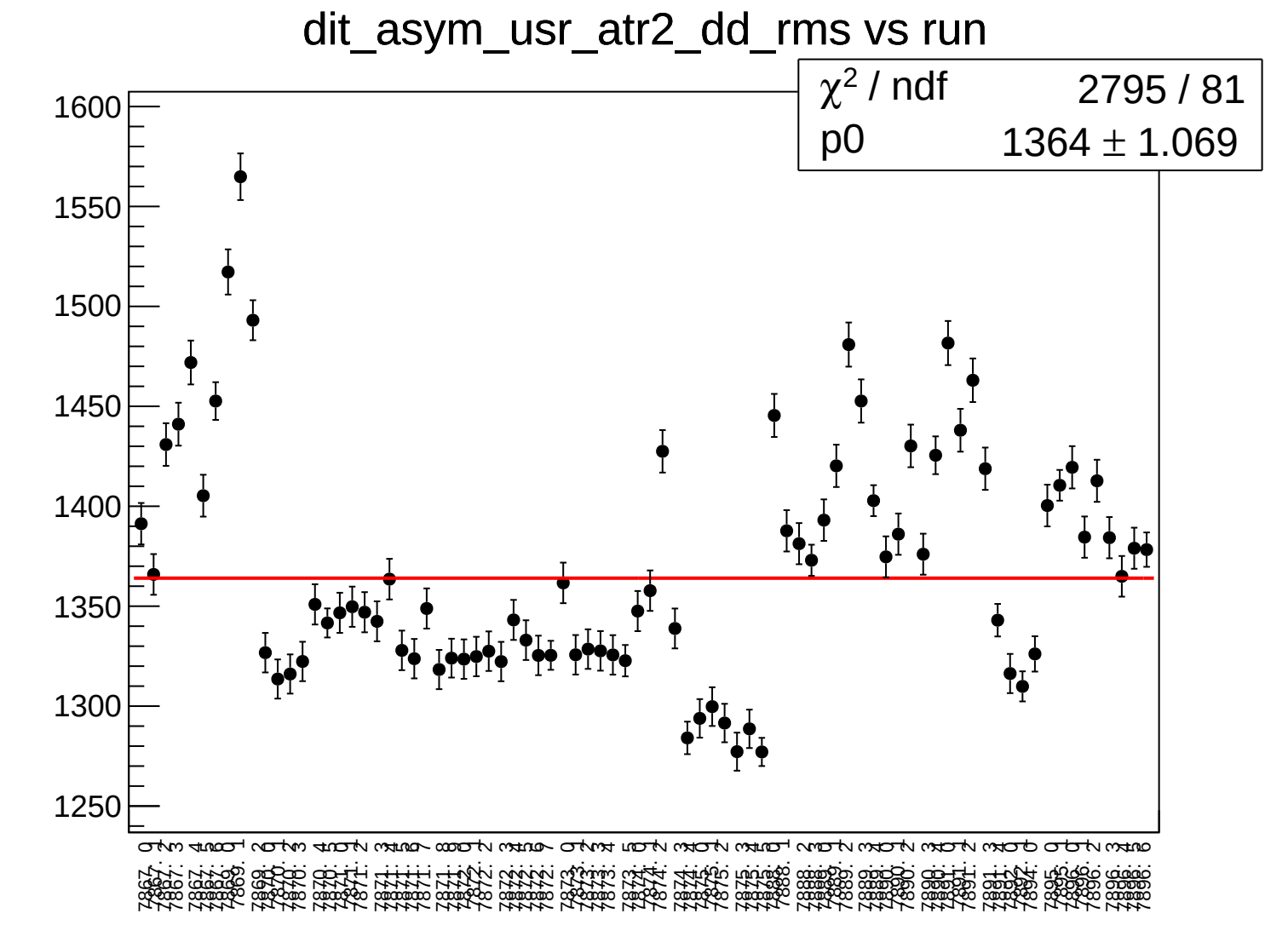

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 65.92 / 81
p0 −3242 ± 6550
200
100
0
−100
−200
pull
Entries 82
Mean −134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

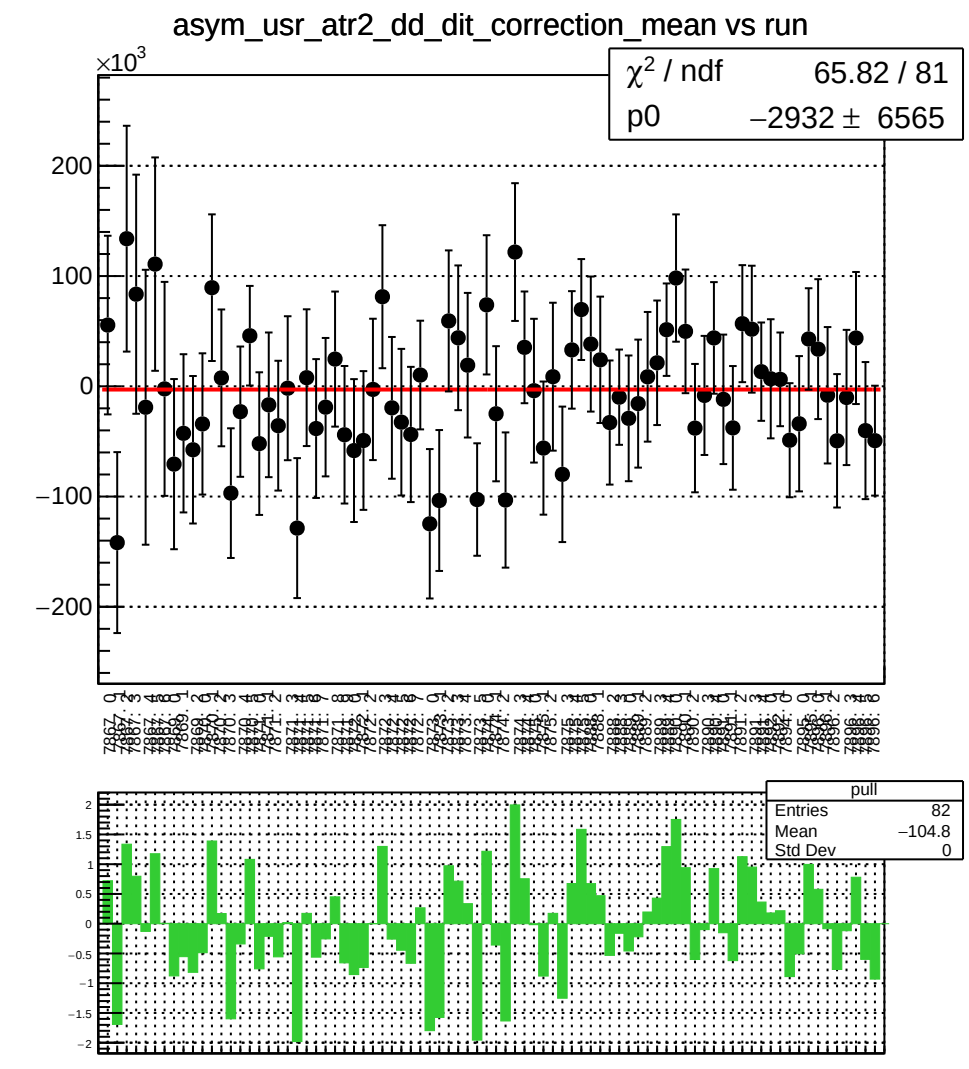

pull1D
Entries 82
Mean −0.01544
Std Dev 0.8965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

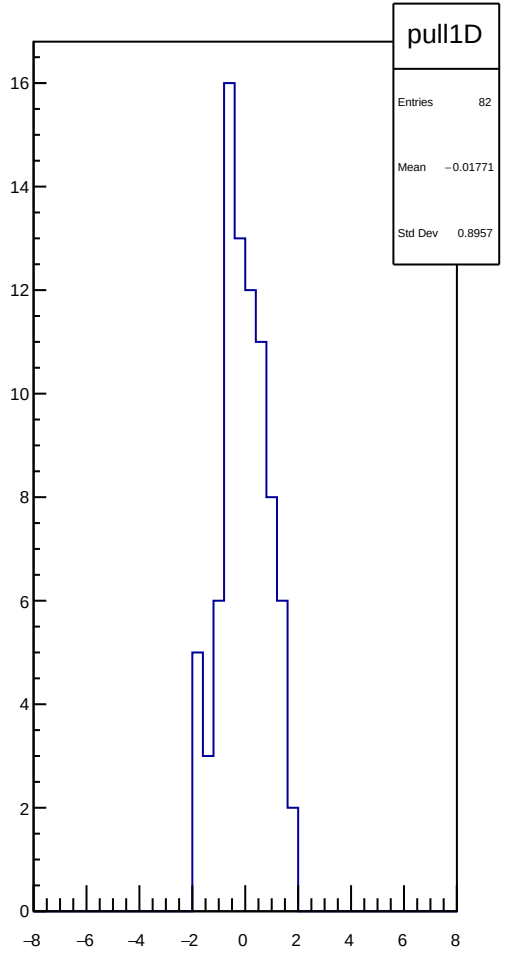

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.695e+04 / 81
p0 5868 ± 4.632
12000
11000
10000
9000
8000
7000
6000
5000

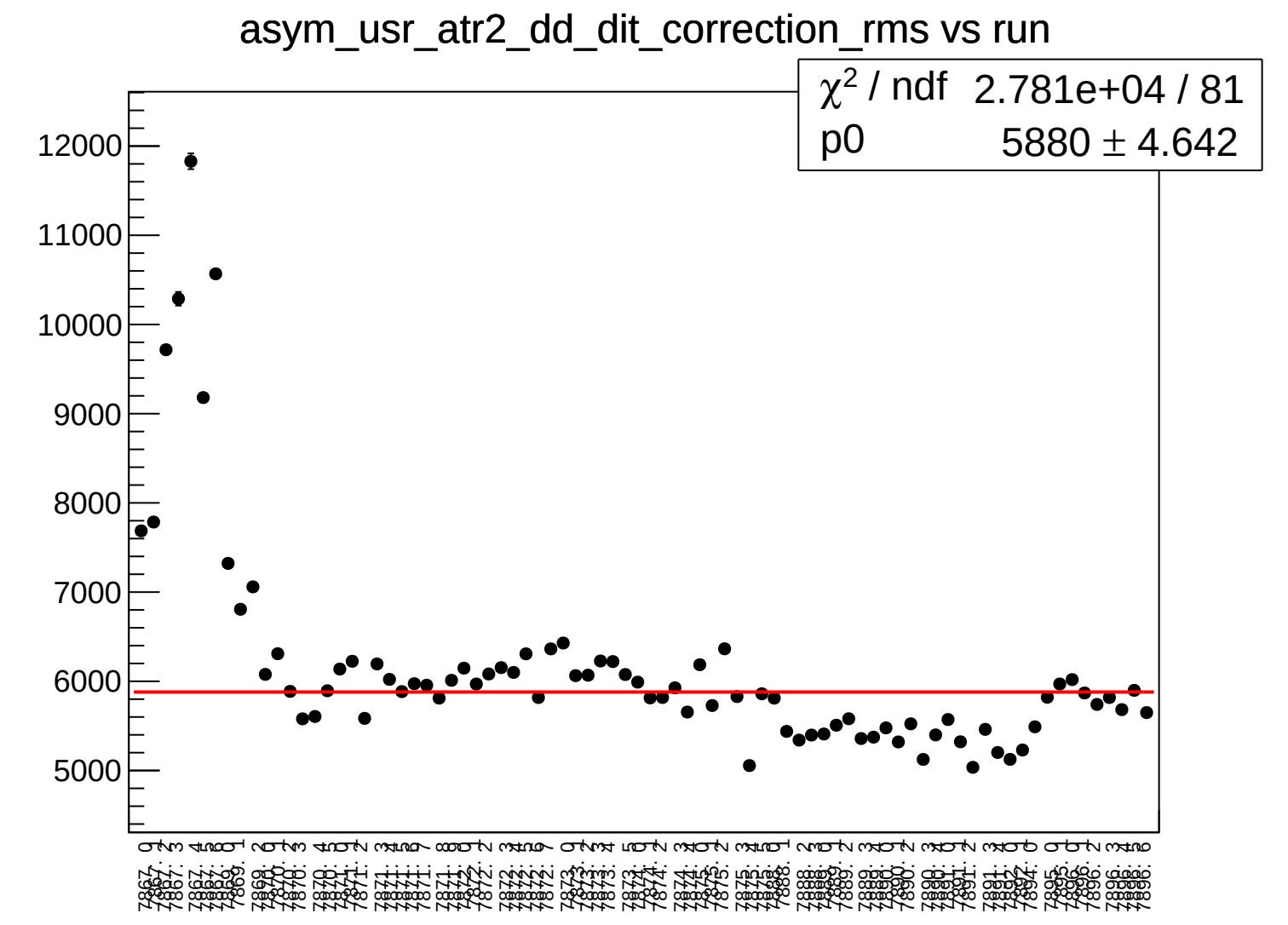

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 101.9 / 81
p0 −978.3 ± 1511
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 700.5
Std Dev 0
3
2
1
0
−1
−2
−3

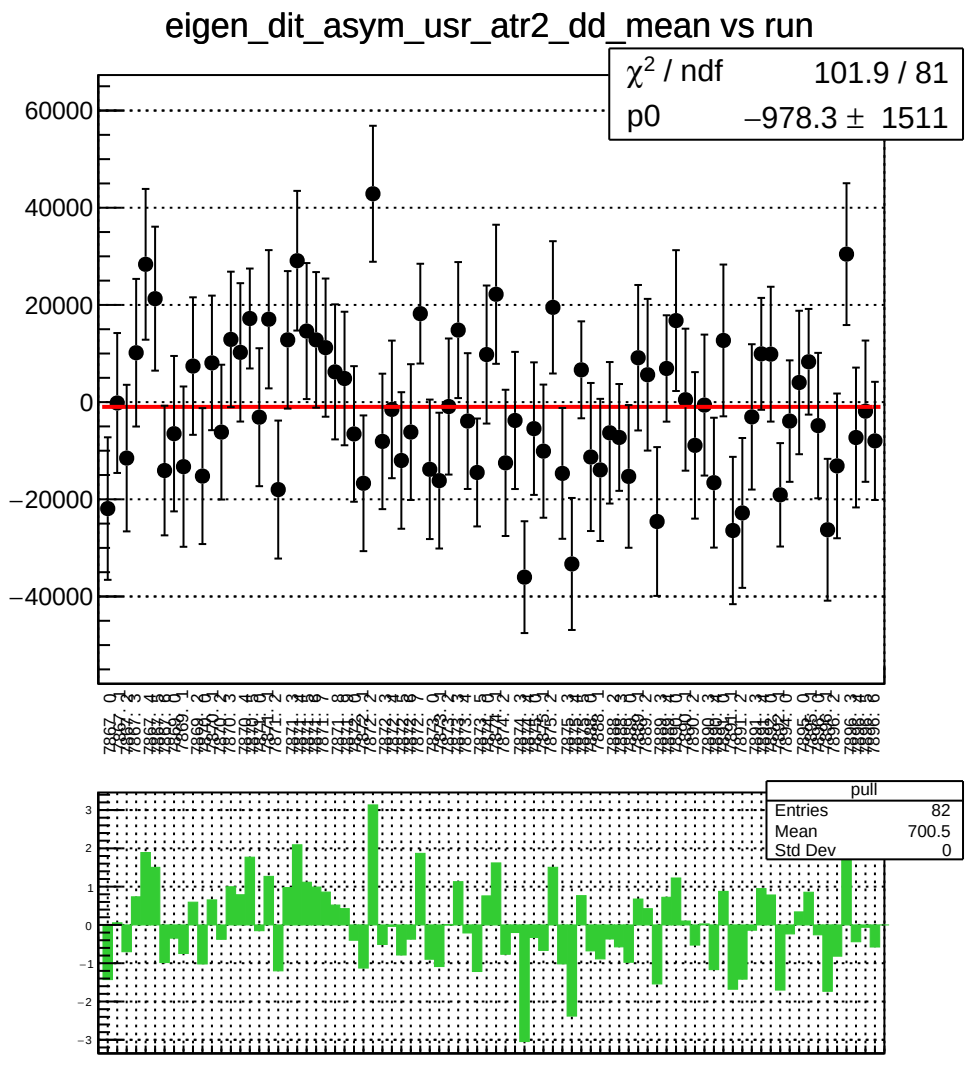

pull1D
Entries 82
Mean −0.007392
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

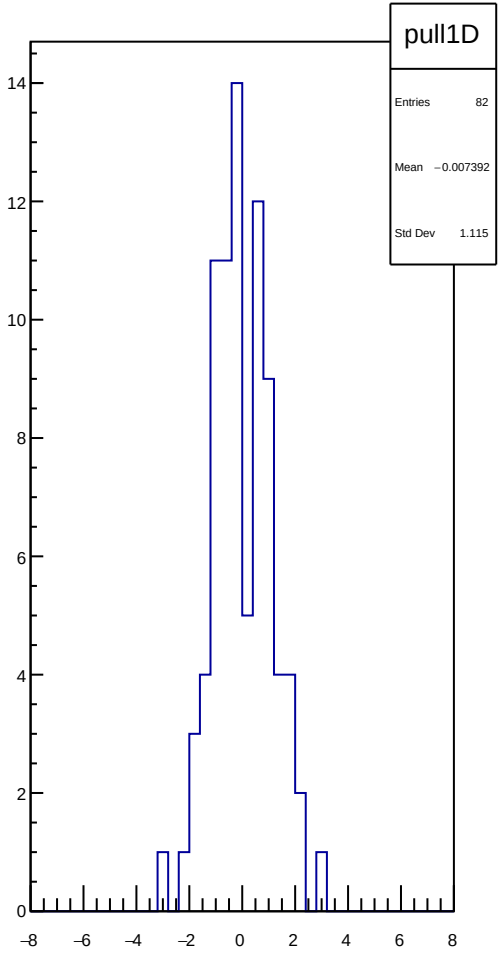

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2795 / 81
p0 1364 ± 1.069
1600
1550
1500
1450
1400
1350
1300
1250

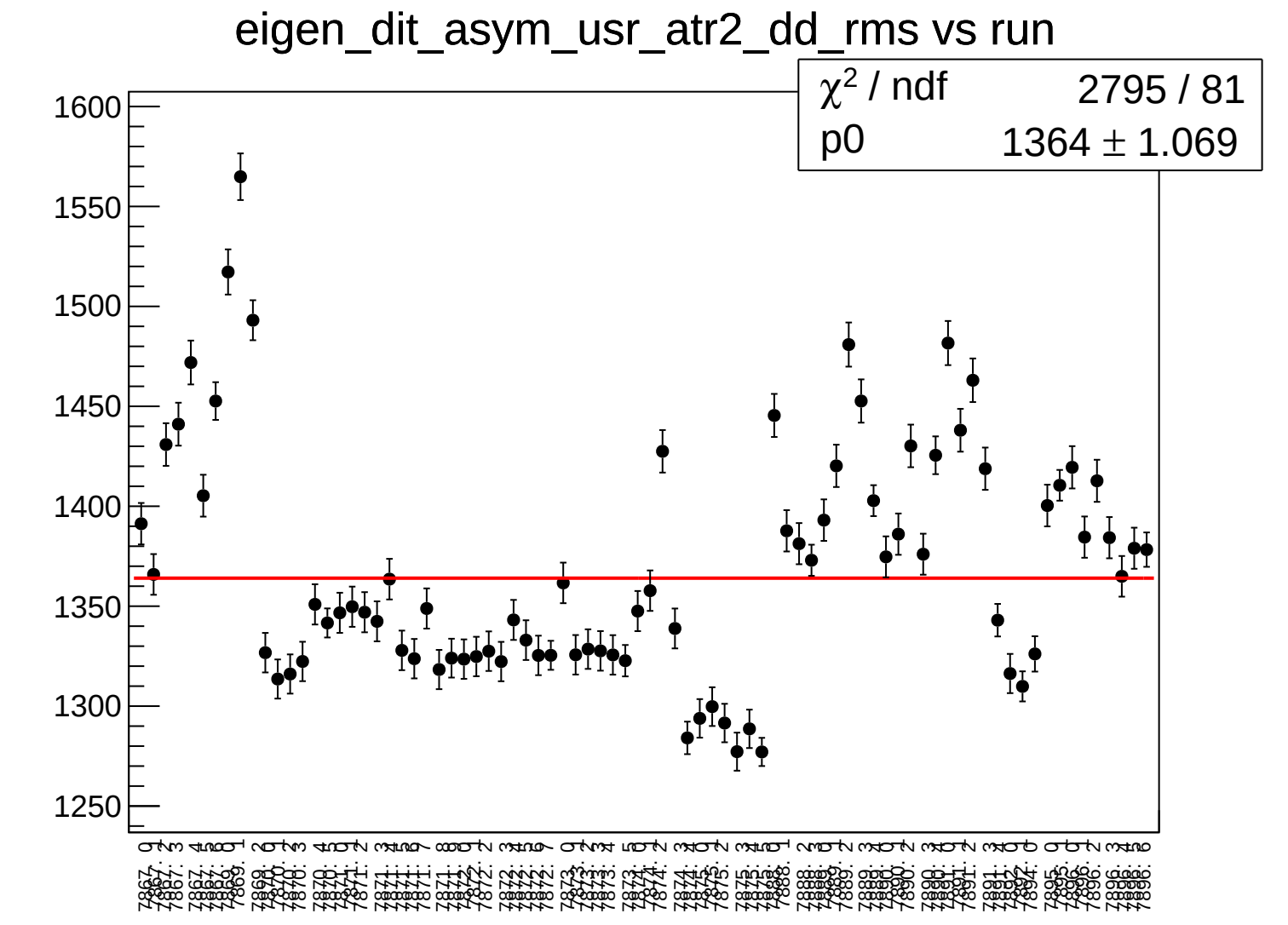

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.82 / 81
p0 −2932 ± 6565
200
100
0
−100
−200
pull
Entries 82
Mean −104.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

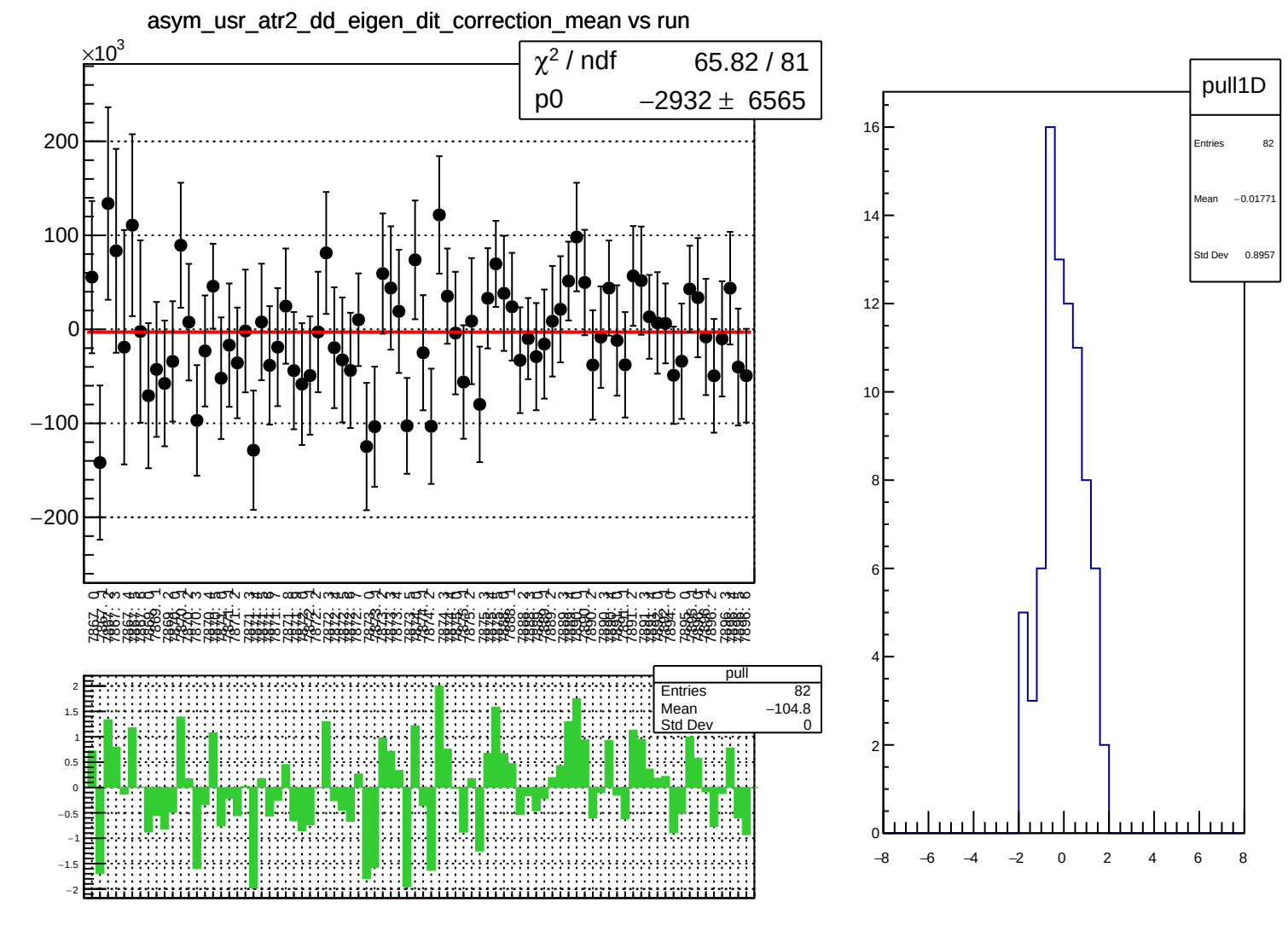

pull1D
Entries 82
Mean −0.01771
Std Dev 0.8957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

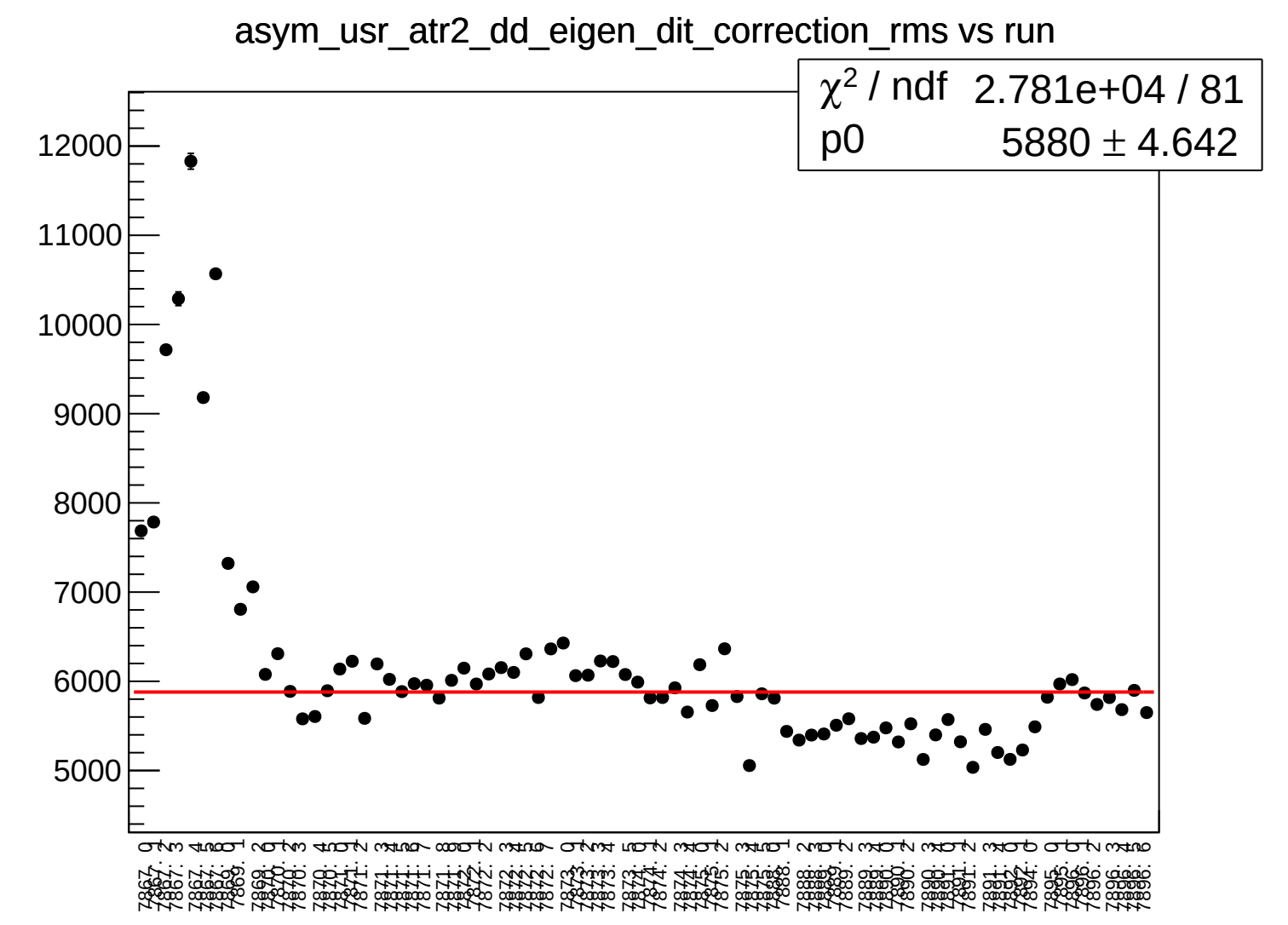

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2.781e+04 / 81
p0 5880 ± 4.642
12000
11000
10000
9000
8000
7000
6000
5000

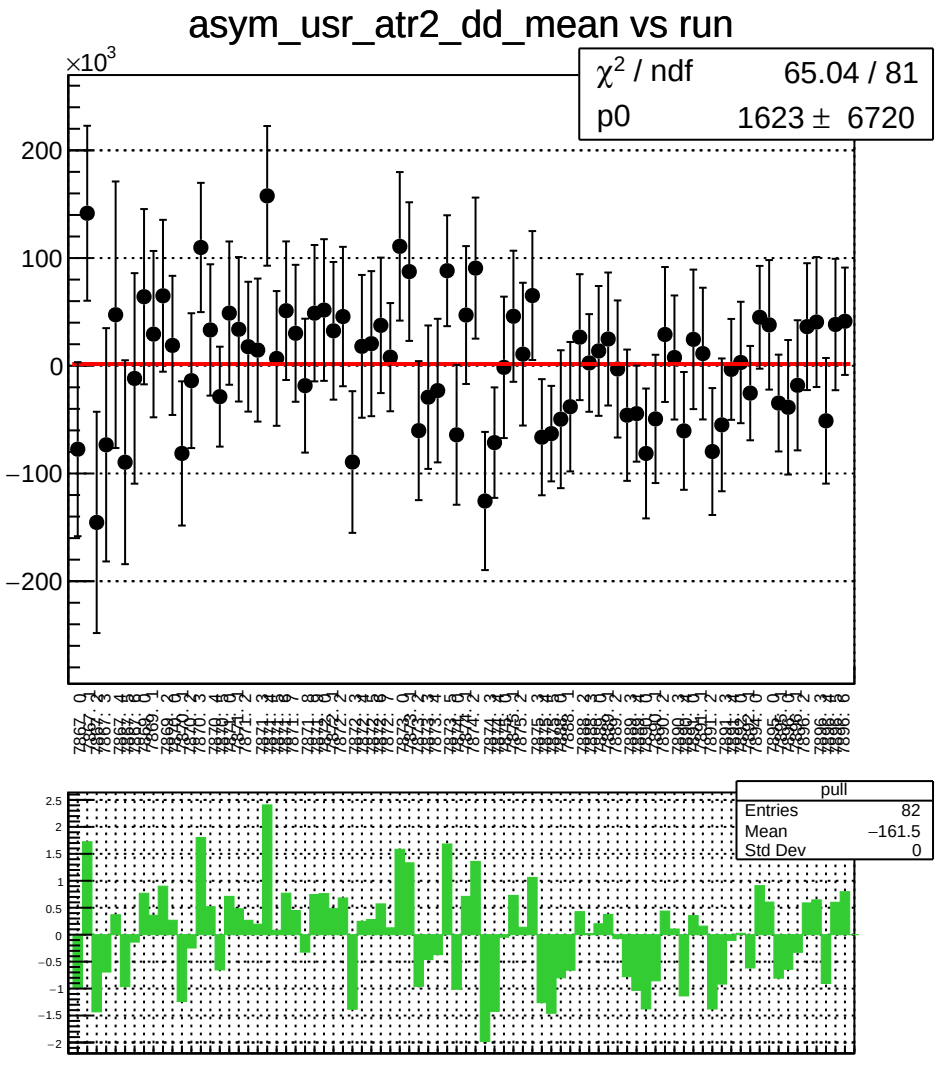

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 101.9 / 81
p0 −978.3 ± 1511
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 700.5
Std Dev 0
3
2
1
0
−1
−2
−3

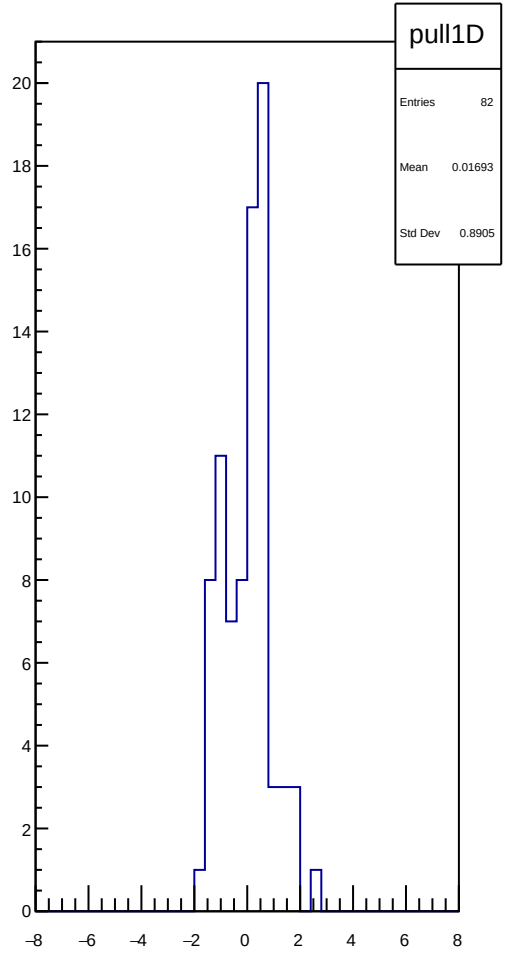

pull1D
Entries 82
Mean −0.007392
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

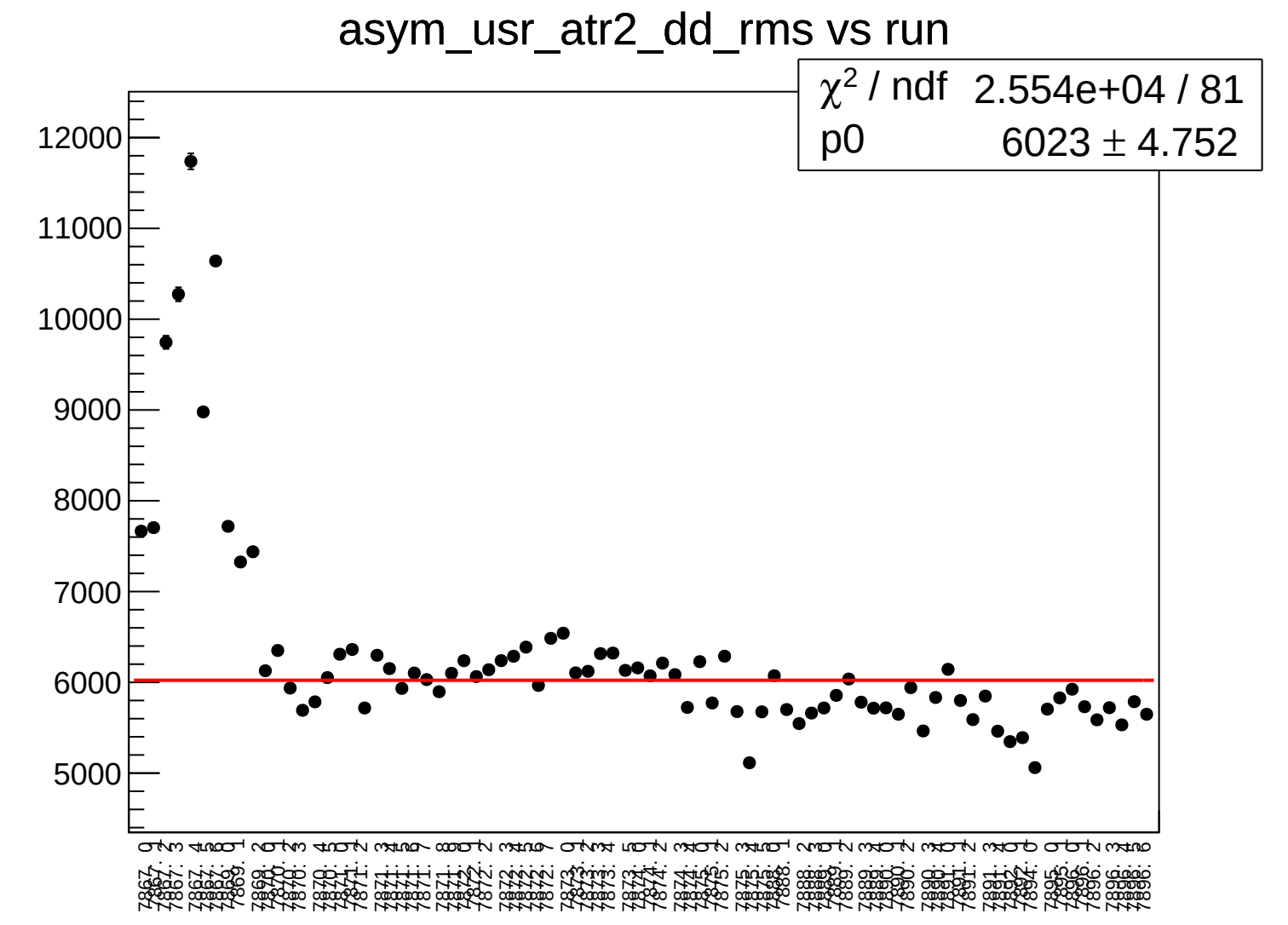

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2795 / 81
p0 1364 ± 1.069
1600
1550
1500
1450
1400
1350
1300
1250

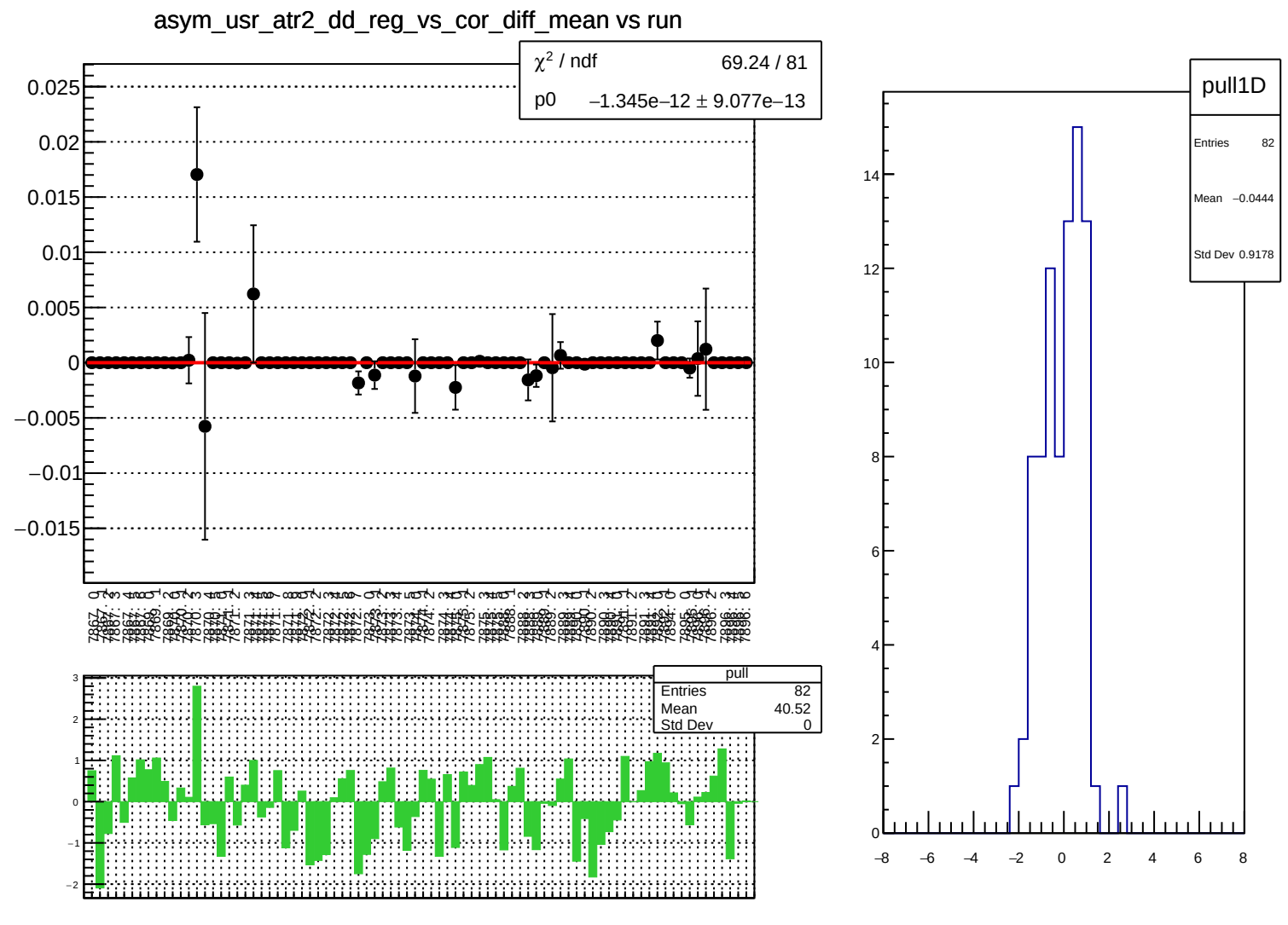

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 65.82 / 81
p0 −2932 ± 6565
200
100
0
−100
−200
pull
Entries 82
Mean −104.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01771
Std Dev 0.8957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

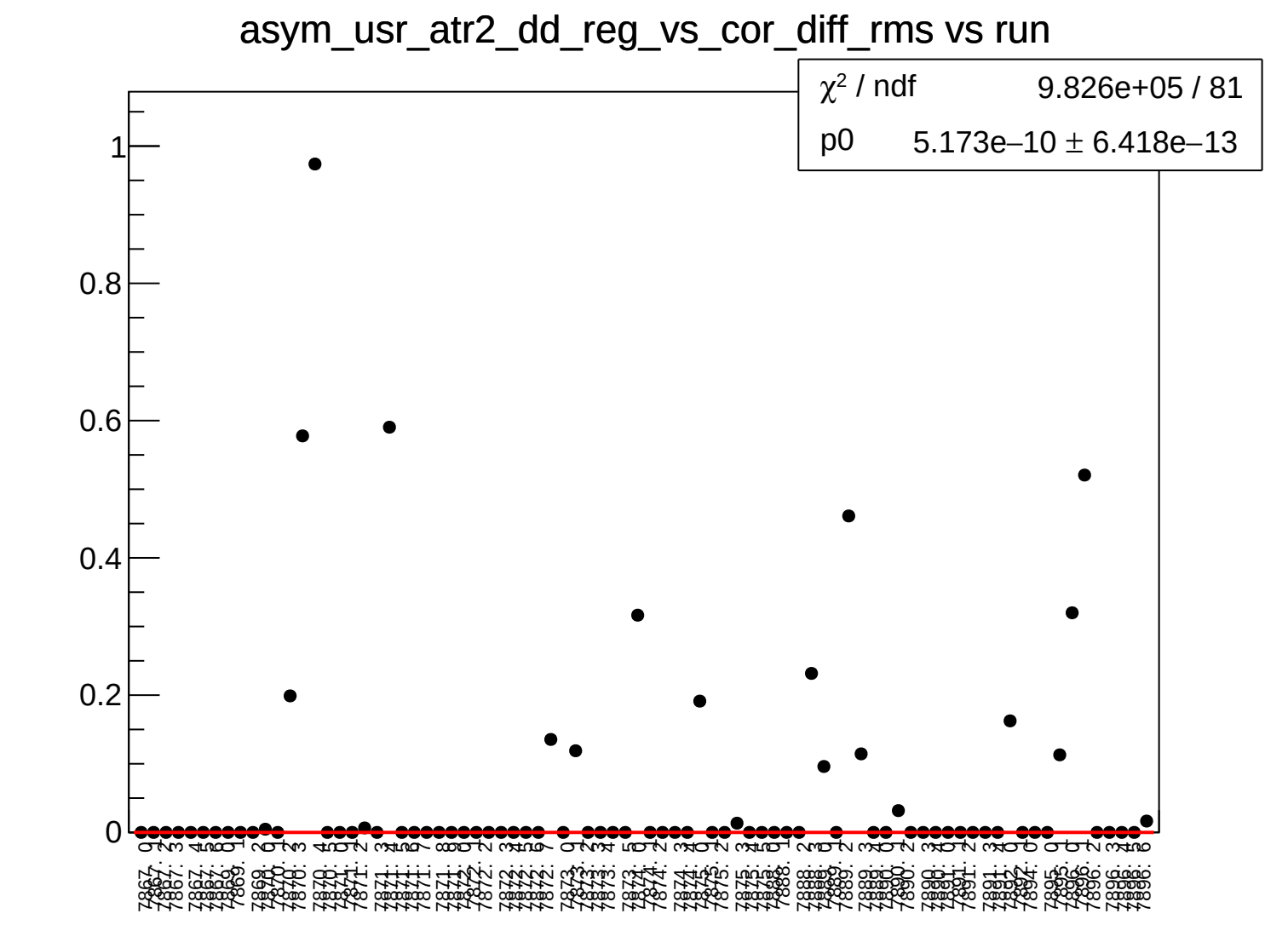

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.781e+04 / 81
p0 5880 ± 4.642
12000
11000
10000
9000
8000
7000
6000
5000

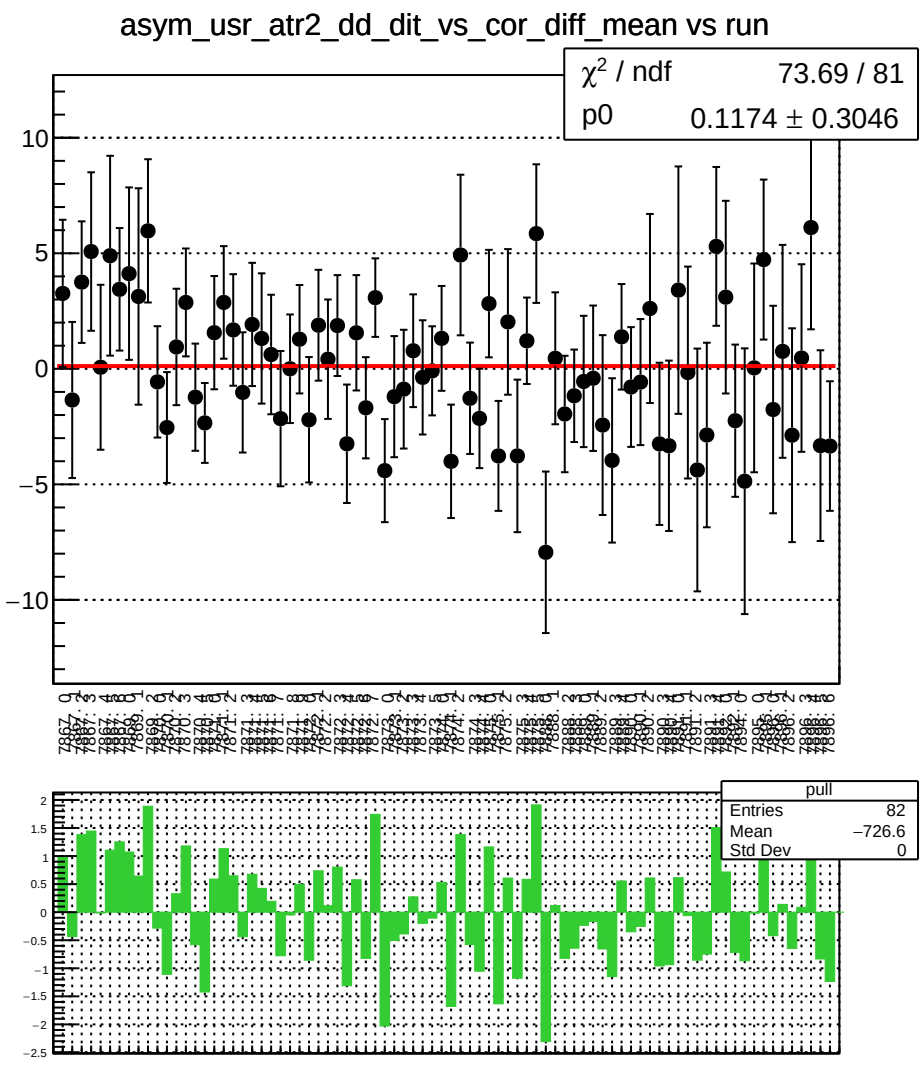

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 65.04 / 81
p0 1623 ± 6720
200
100
0
−100
−200
pull
Entries 82
Mean −161.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

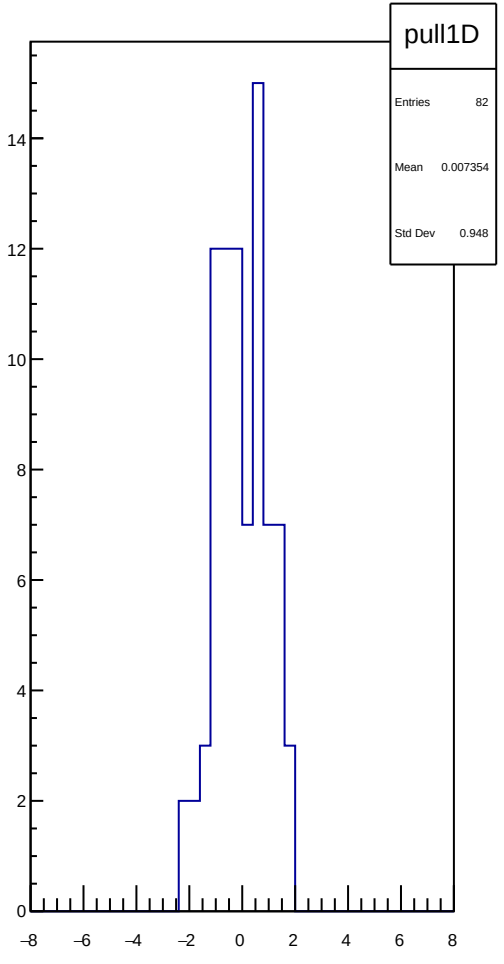

pull1D
Entries 82
Mean 0.01693
Std Dev 0.8905
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

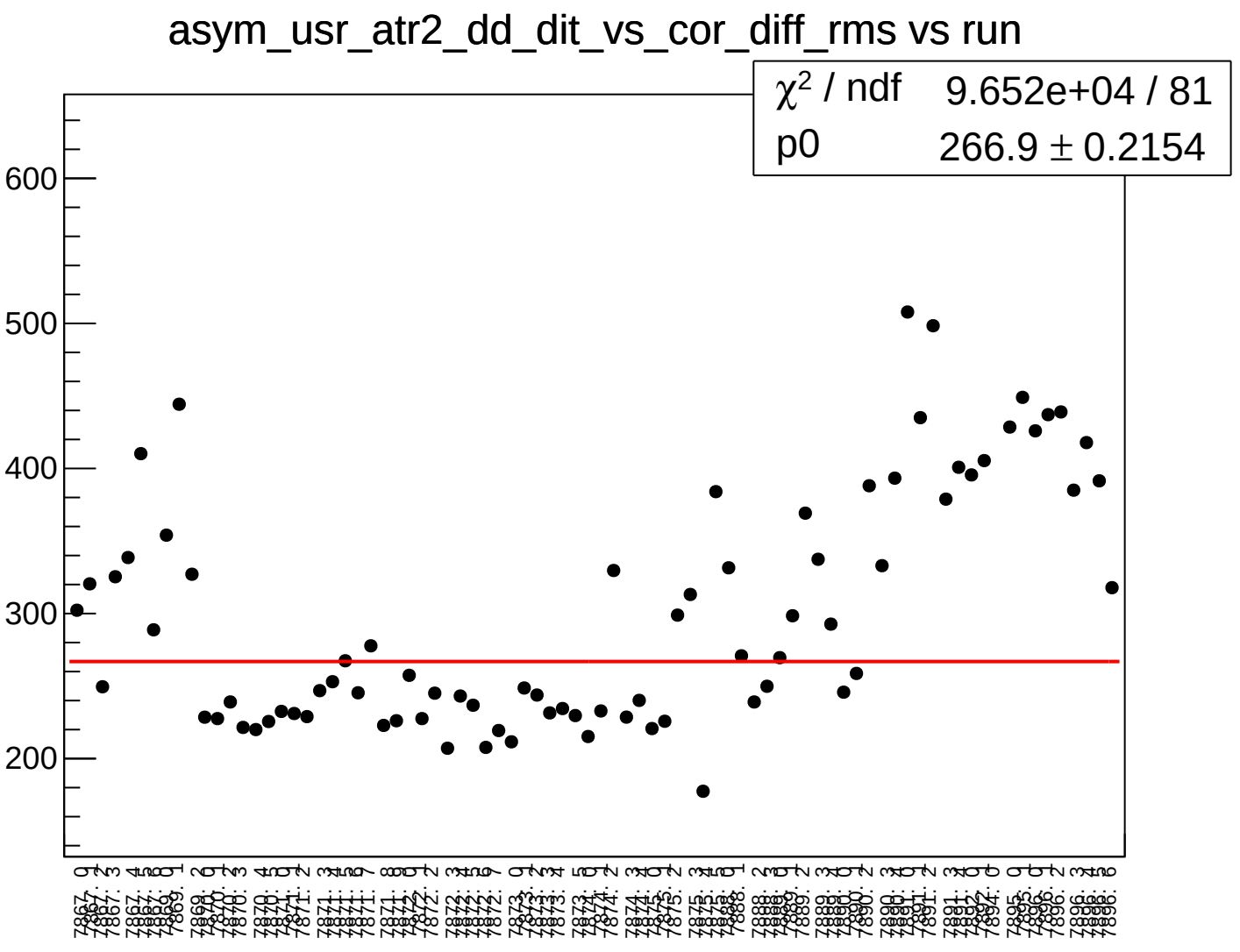

asym_usr_atr2_dd_rms vs run
χ² / ndf 2.554e+04 / 81
p0 6023 ± 4.752
12000
11000
10000
9000
8000
7000
6000
5000

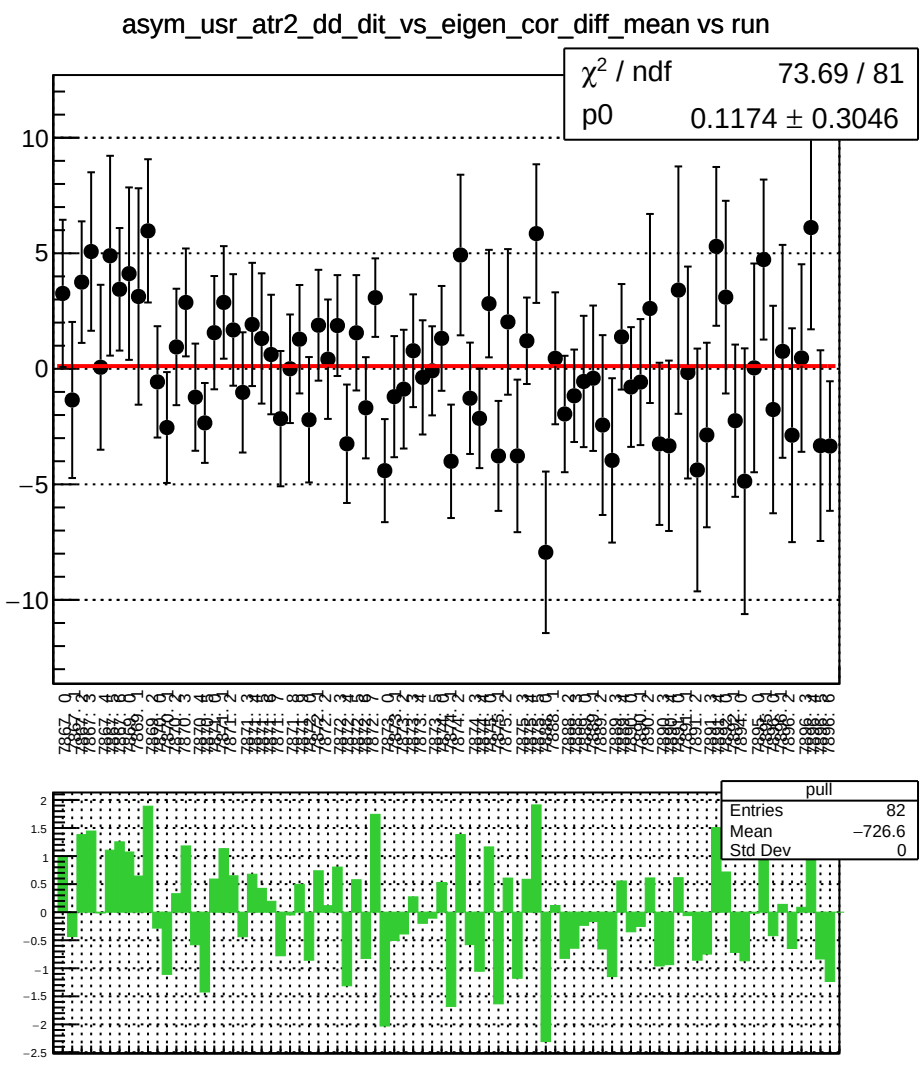

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.24 / 81
p0 −1.345e−12 ± 9.077e−13
pull
Entries 82
Mean 40.52
Std Dev 0
pull1D
Entries 82
Mean −0.0444
Std Dev 0.9178

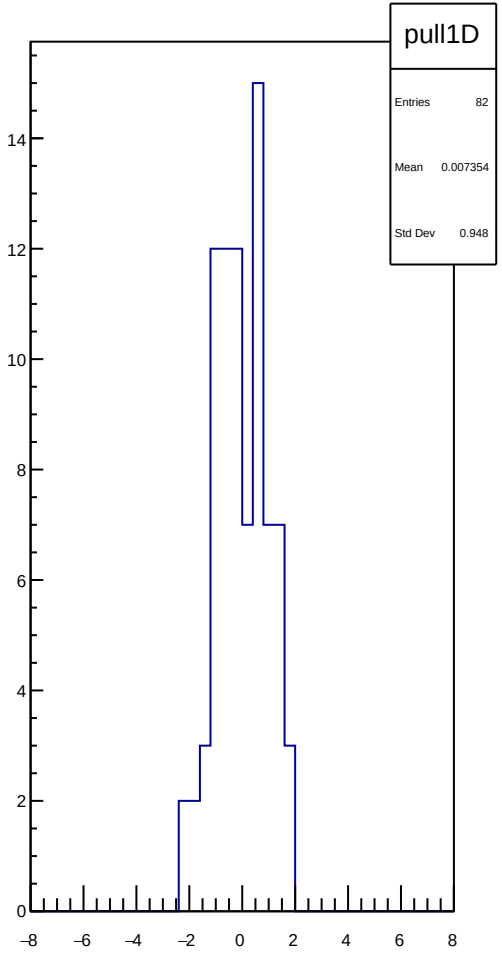

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.826e+05 / 81
p0 5.173e−10 ± 6.418e−13
1
0.8
0.6
0.4
0.2
0

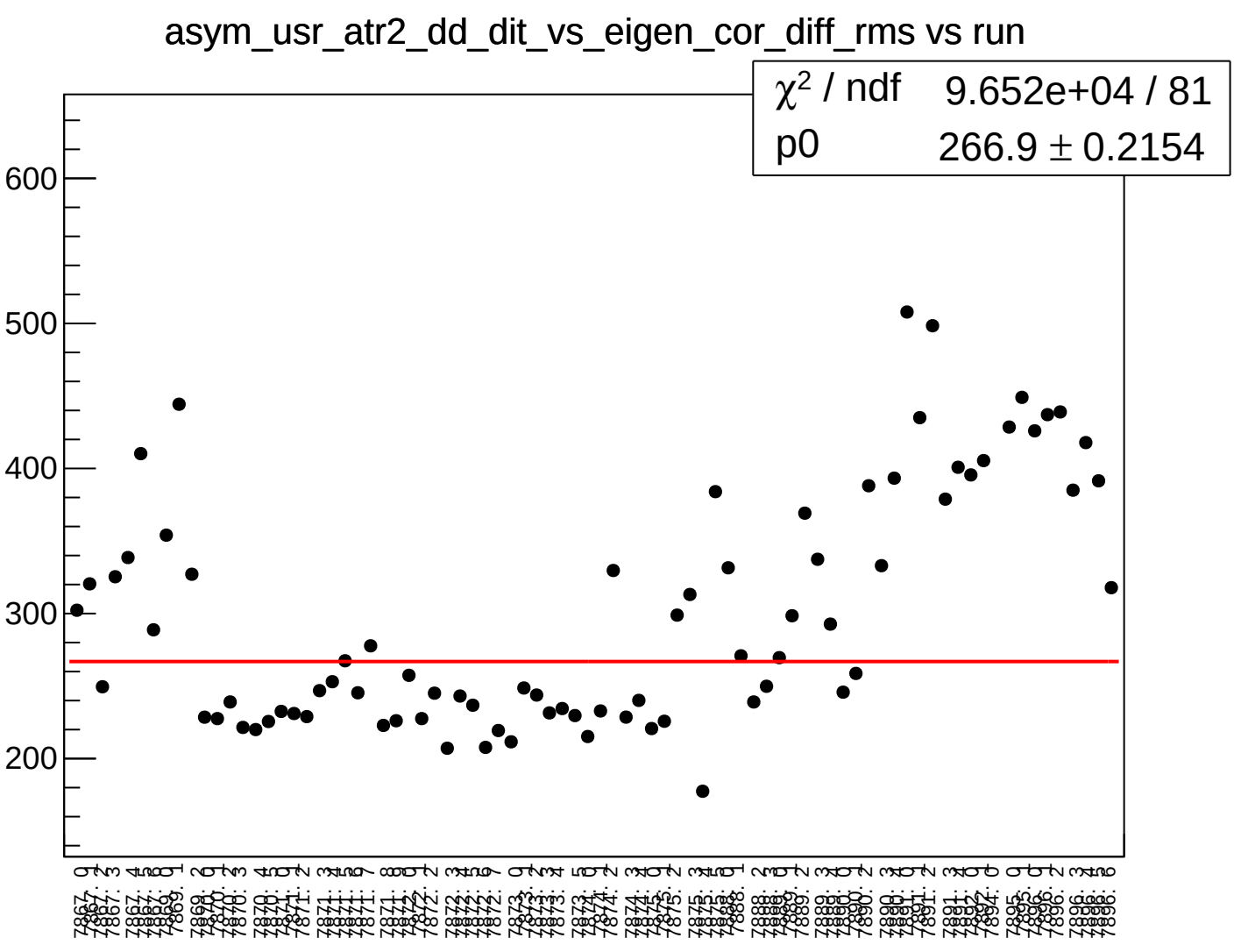

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.69 / 81
p0 0.1174 ± 0.3046
pull
Entries 82
Mean −726.6
Std Dev 0

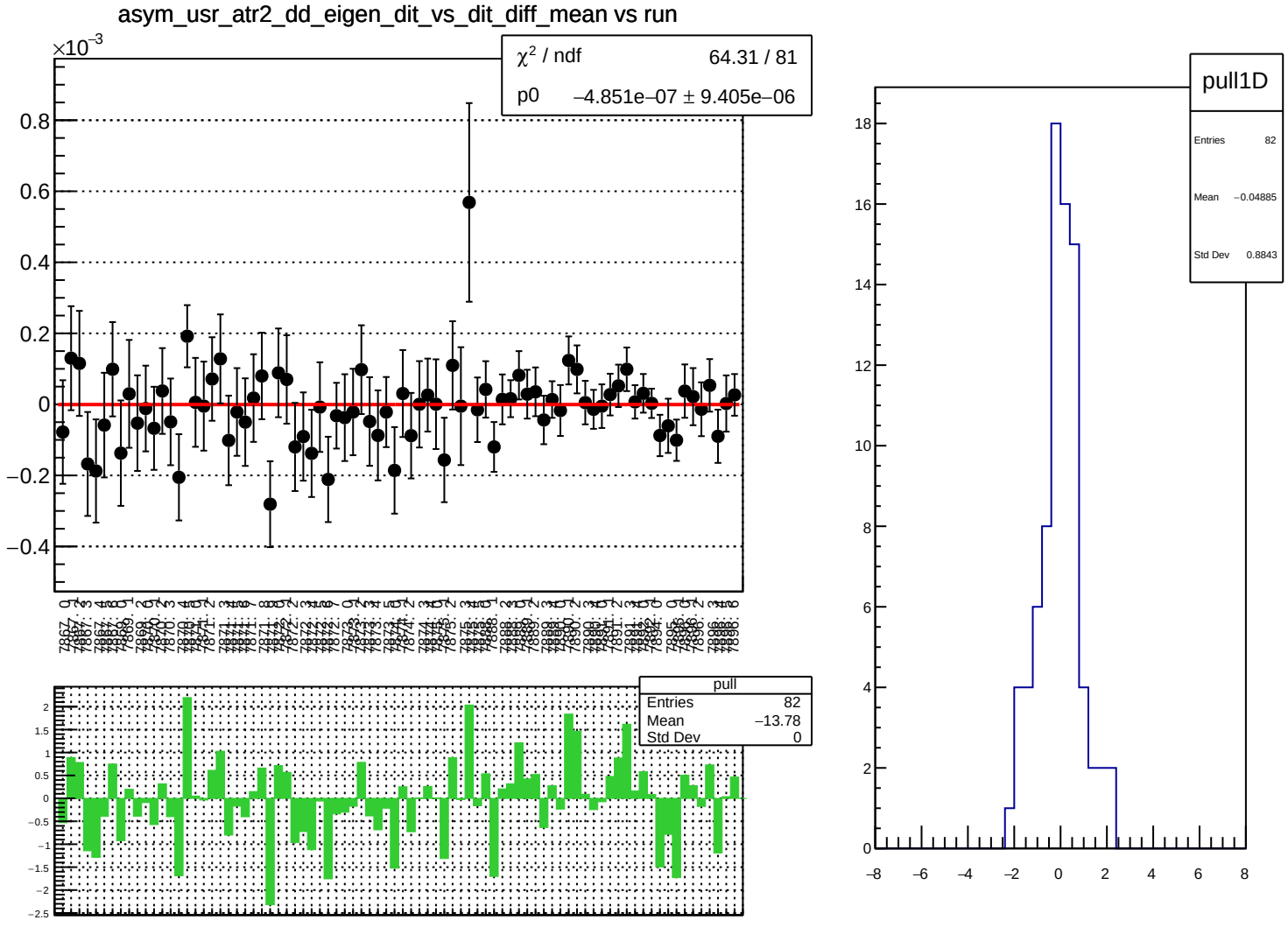

pull1D
Entries 82
Mean 0.007354
Std Dev 0.948

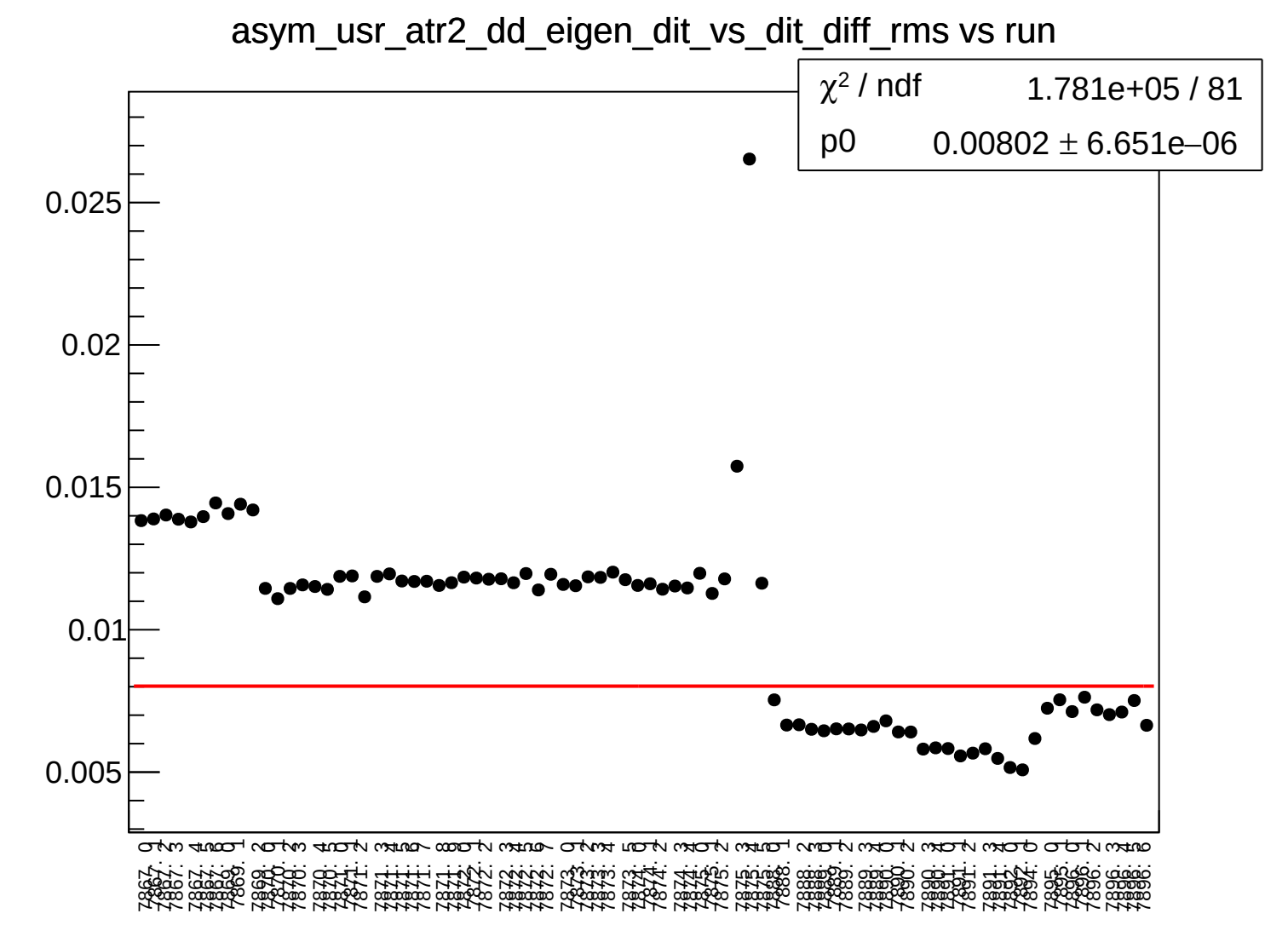

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.652e+04 / 81
p0 266.9 ± 0.2154
600
500
400
300
200

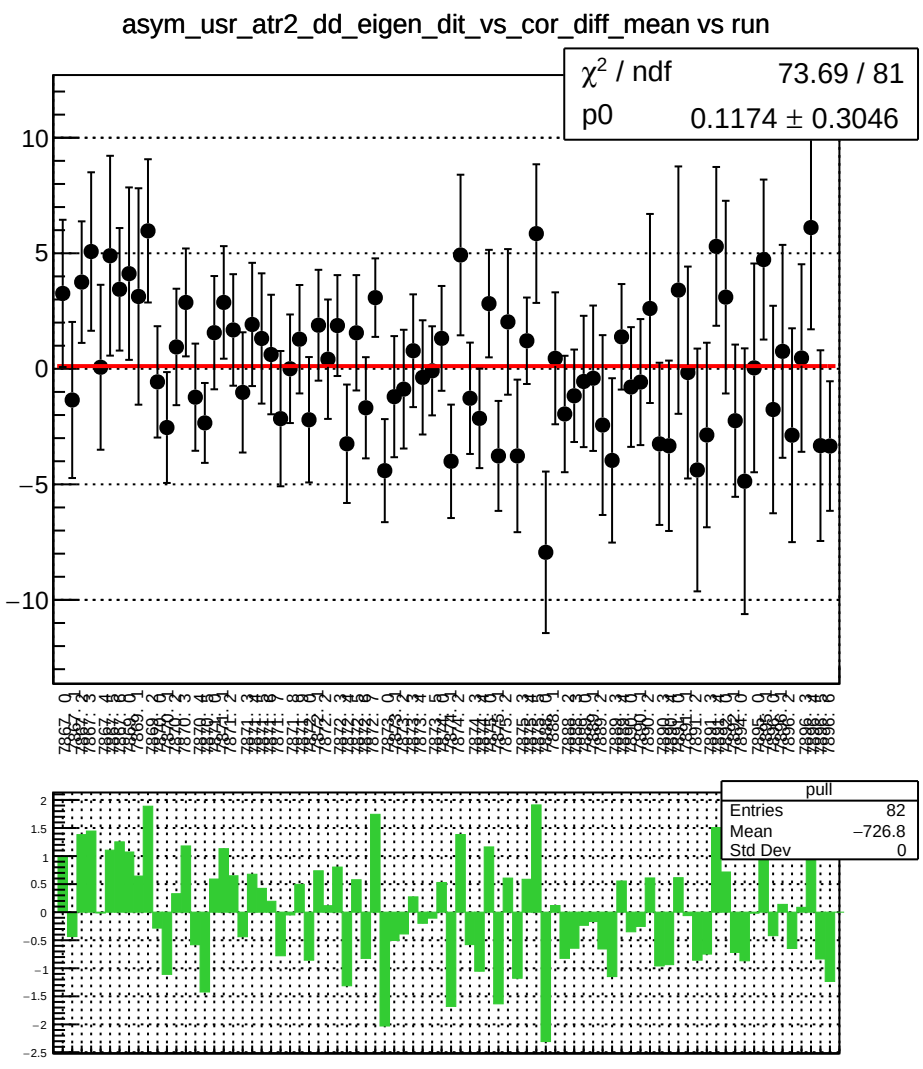

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.69 / 81
p0 0.1174 ± 0.3046
pull
Entries 82
Mean −726.6
Std Dev 0

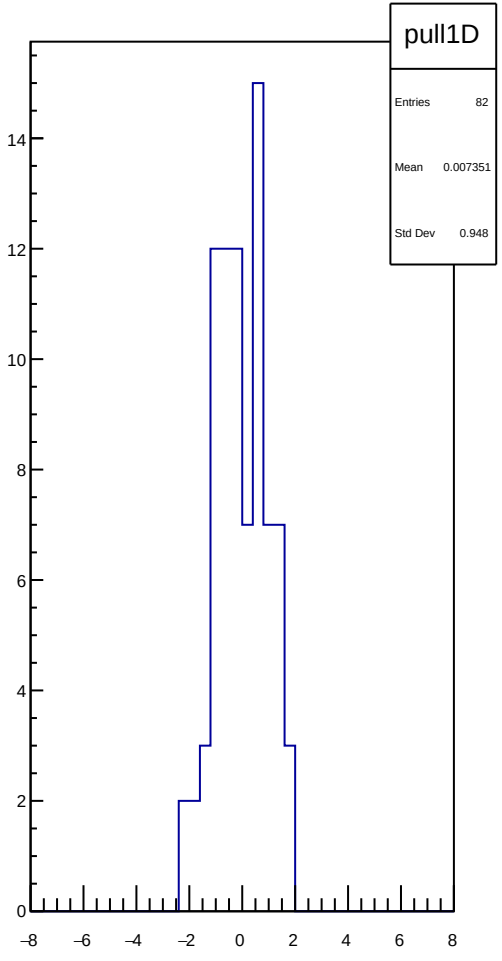

pull1D
Entries 82
Mean 0.007354
Std Dev 0.948

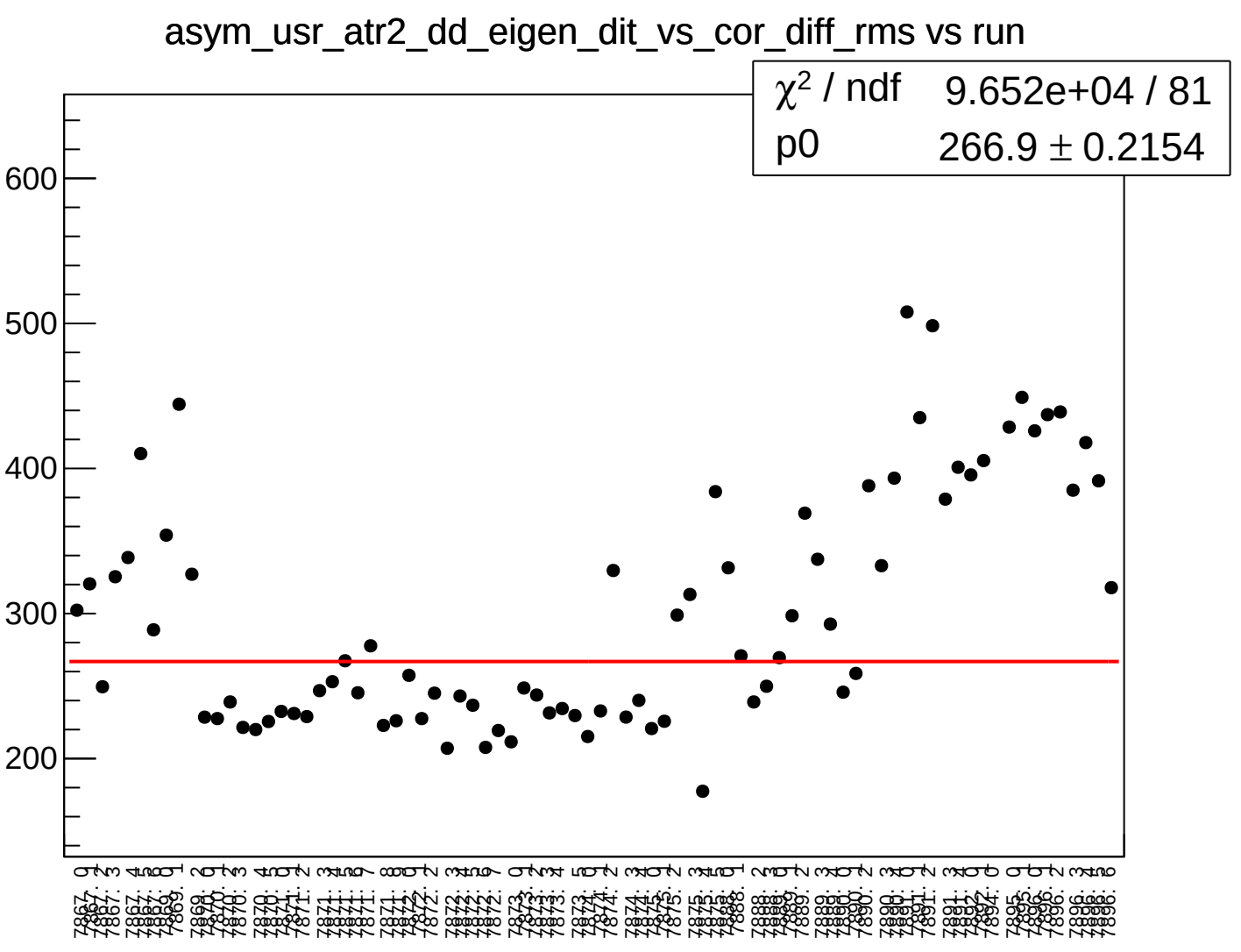

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.652e+04 / 81
p0 266.9 ± 0.2154
600
500
400
300
200

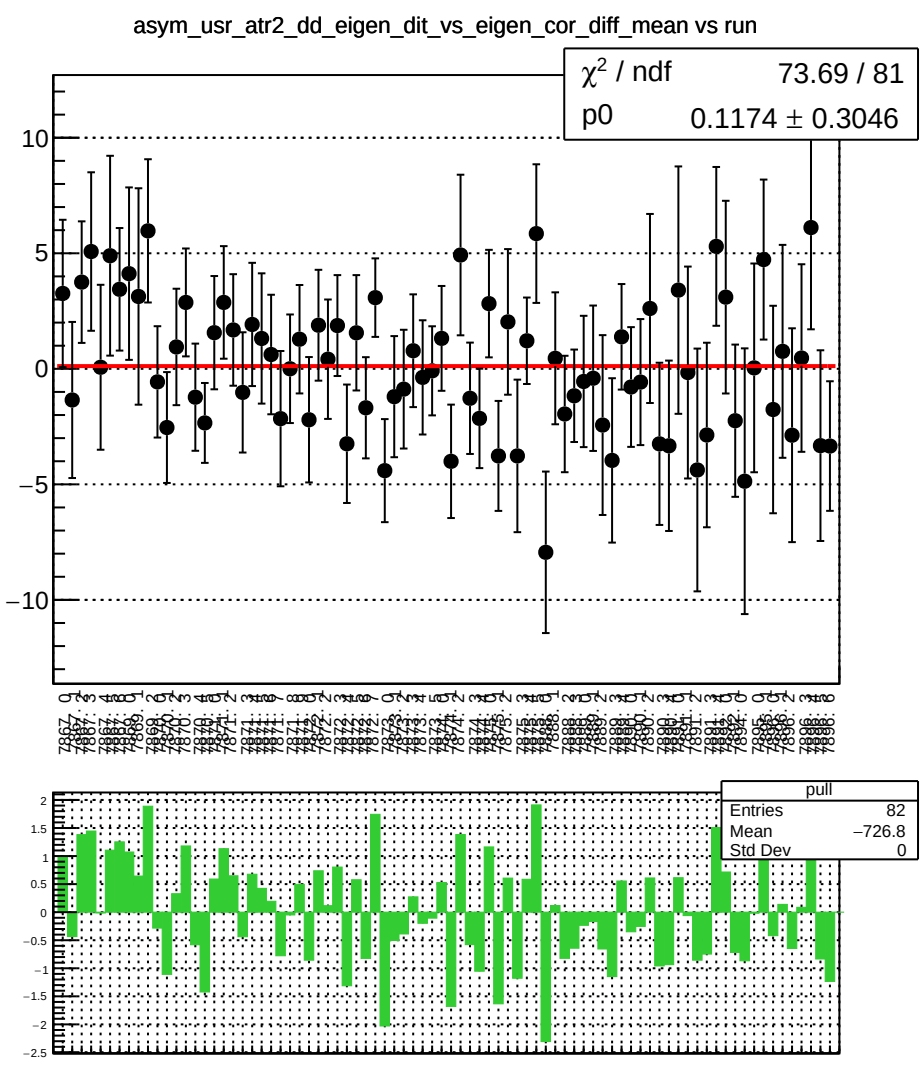

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.31 / 81
p0 −4.851e−07 ± 9.405e−06
pull
Entries 82
Mean −13.78
Std Dev 0
pull1D
Entries 82
Mean −0.04885
Std Dev 0.8843

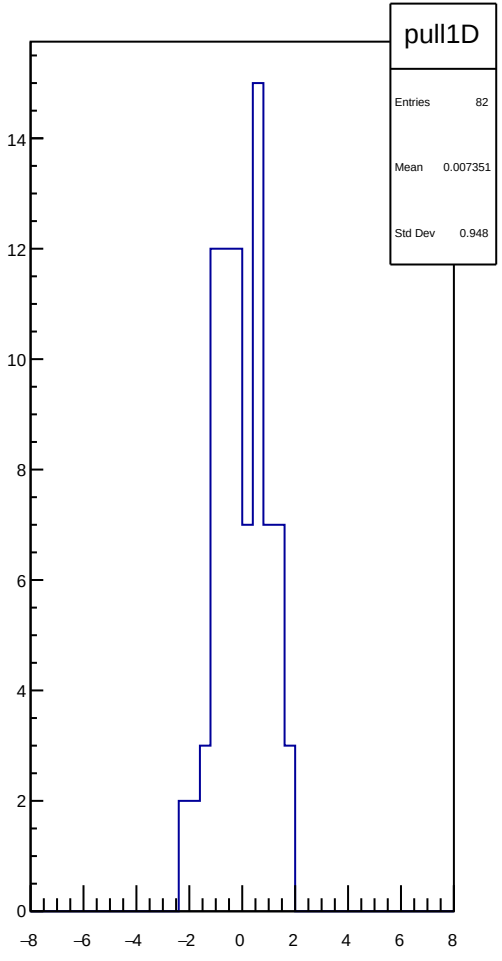

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.781e+05 / 81
p0 0.00802 ± 6.651e–06
0.025
0.02
0.015
0.01
0.005

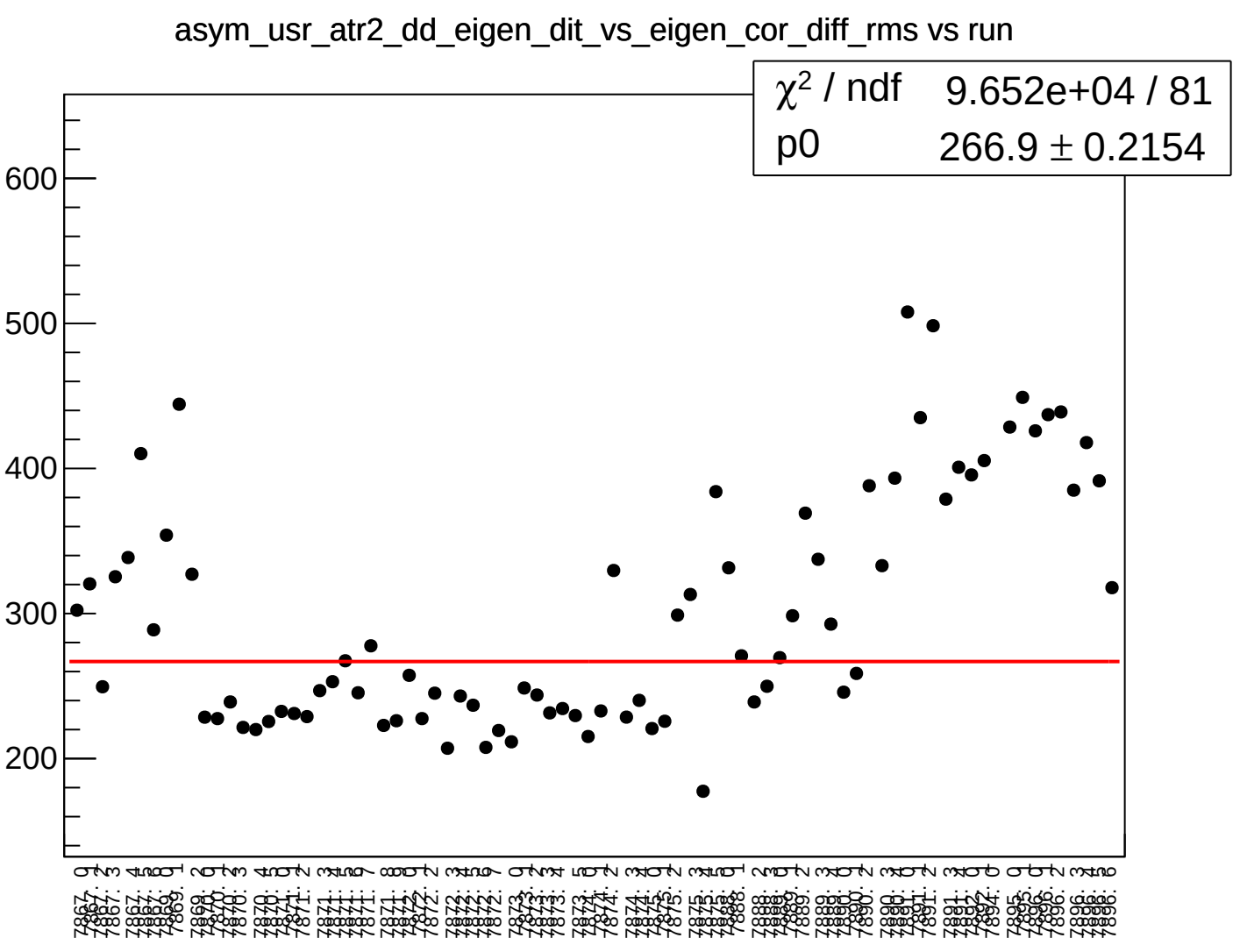

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.69 / 81
p0 0.1174 ± 0.3046
pull
Entries 82
Mean −726.8
Std Dev 0

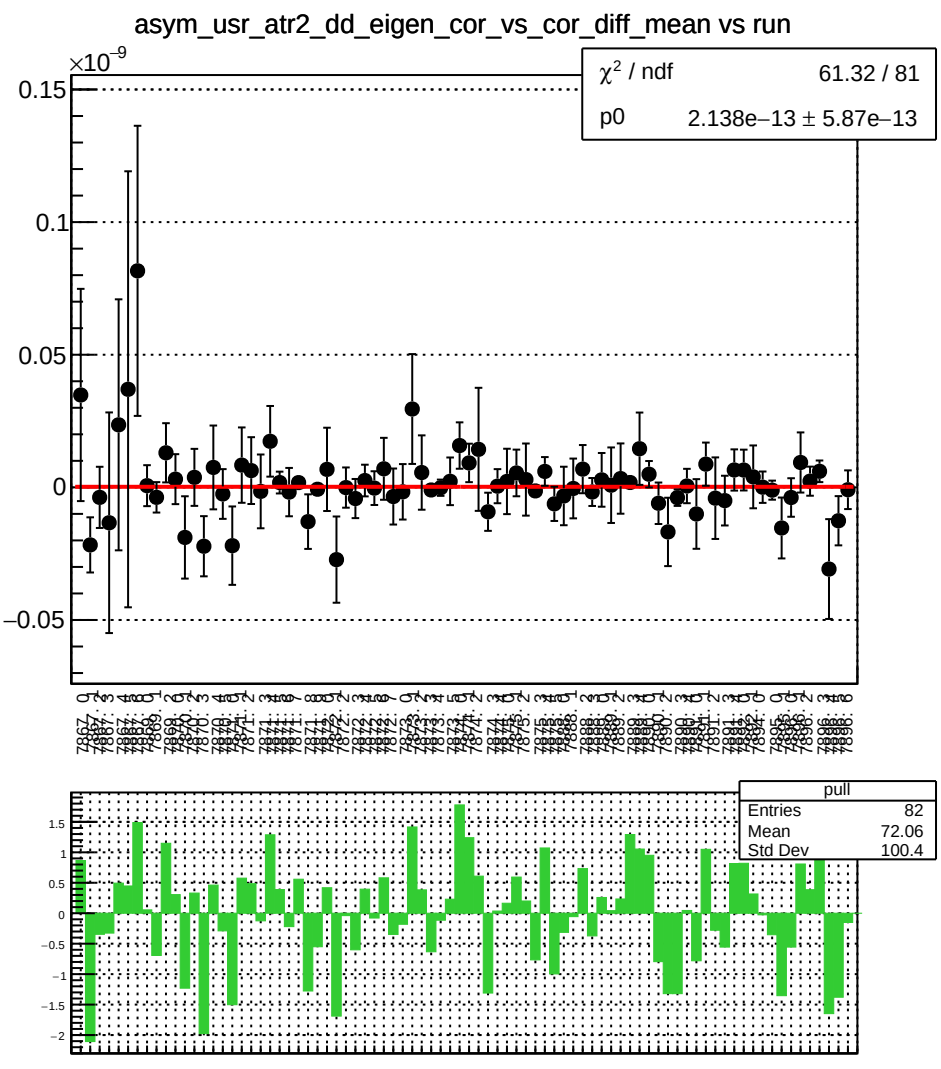

pull1D
Entries 82
Mean 0.007351
Std Dev 0.948

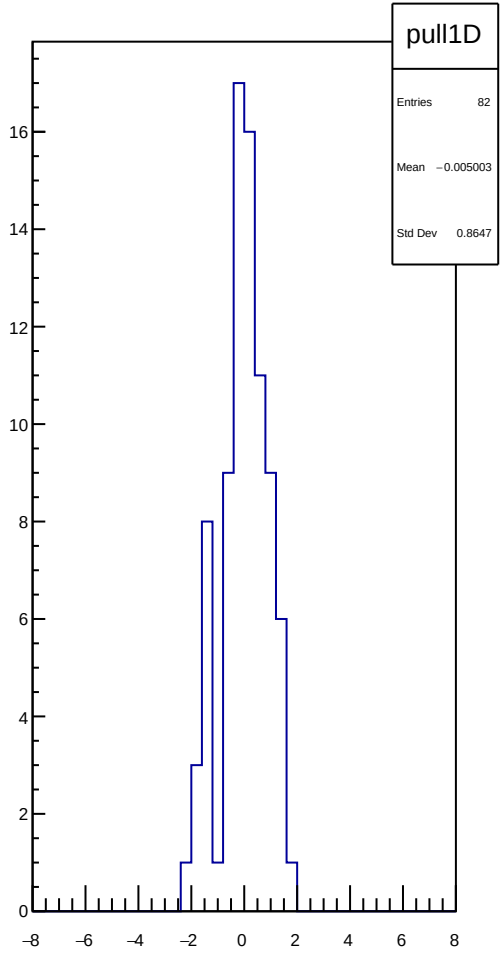

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.652e+04 / 81
p0 266.9 ± 0.2154
600
500
400
300
200

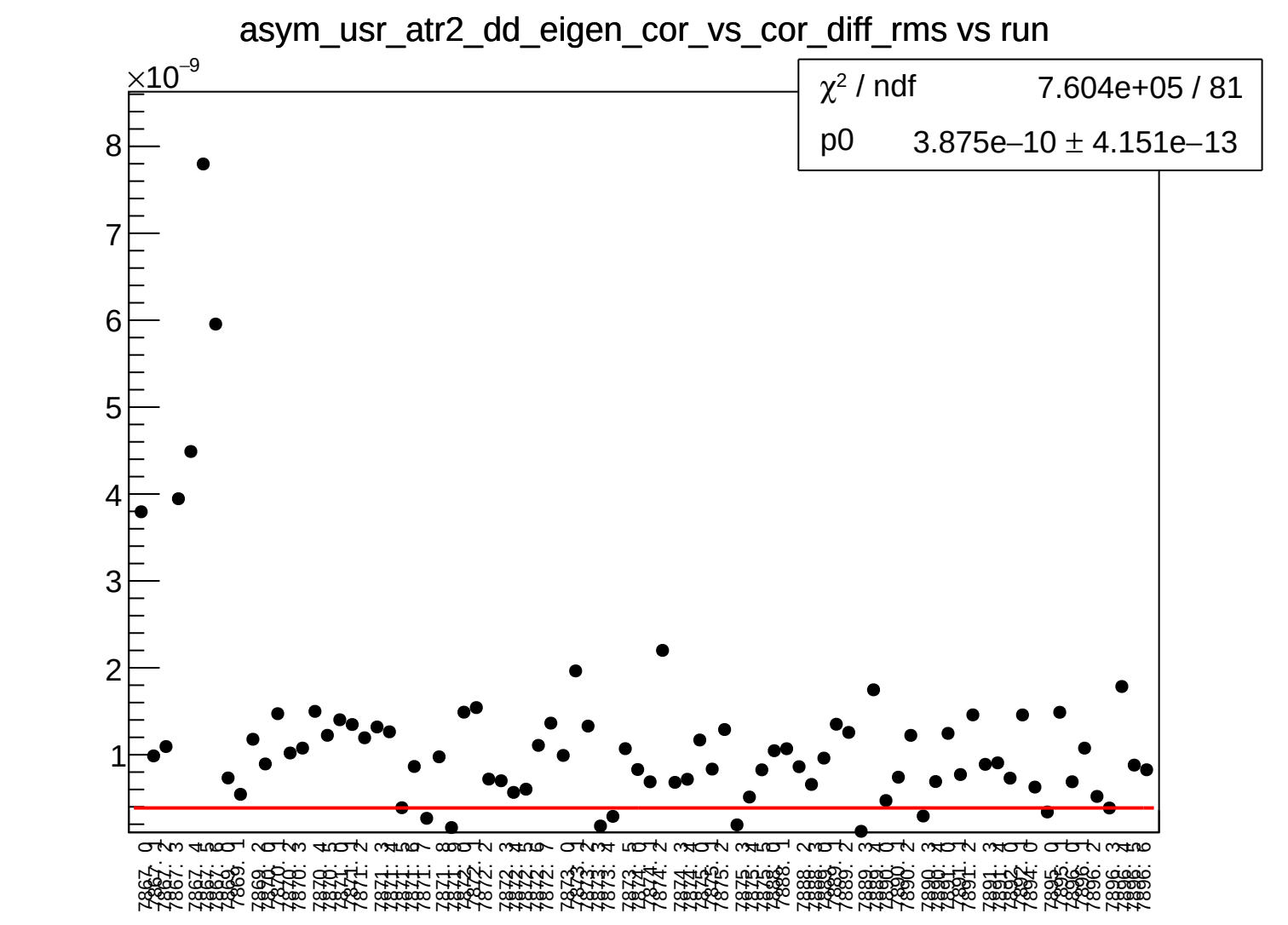

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.69 / 81
p0 0.1174 ± 0.3046
pull
Entries 82
Mean −726.8
Std Dev 0

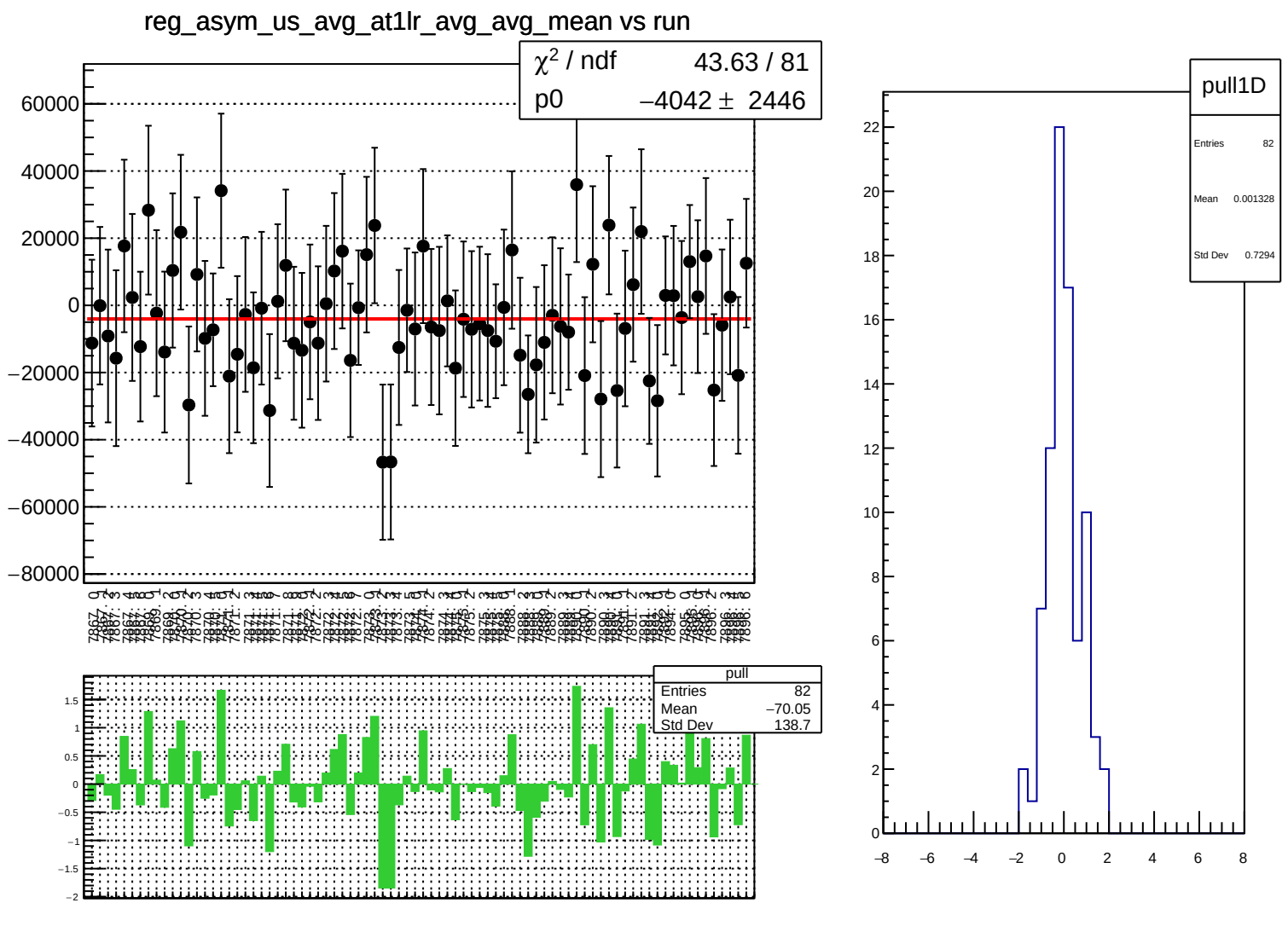

pull1D
Entries 82
Mean 0.007351
Std Dev 0.948

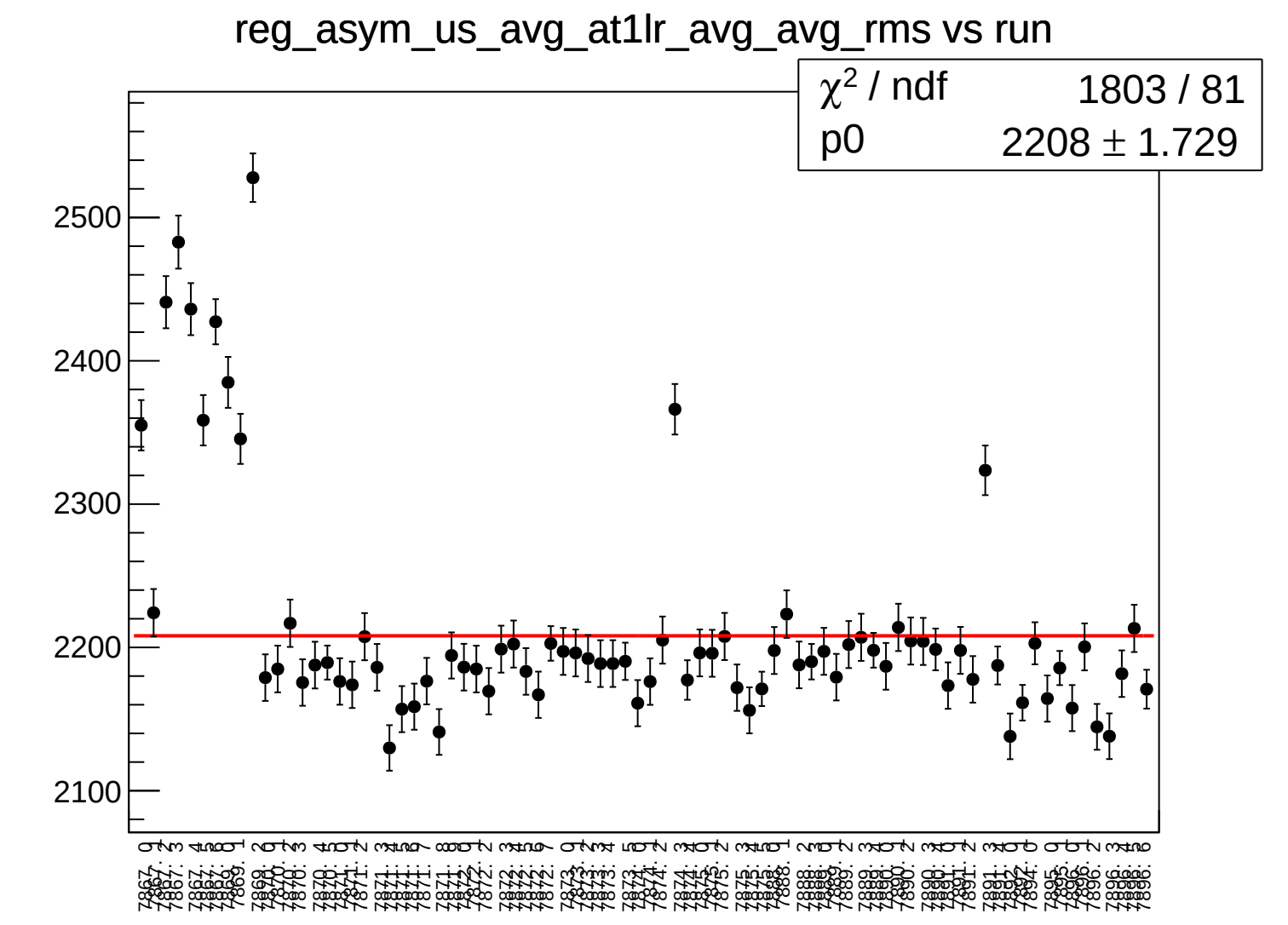

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.652e+04 / 81
p0 266.9 ± 0.2154
600
500
400
300
200

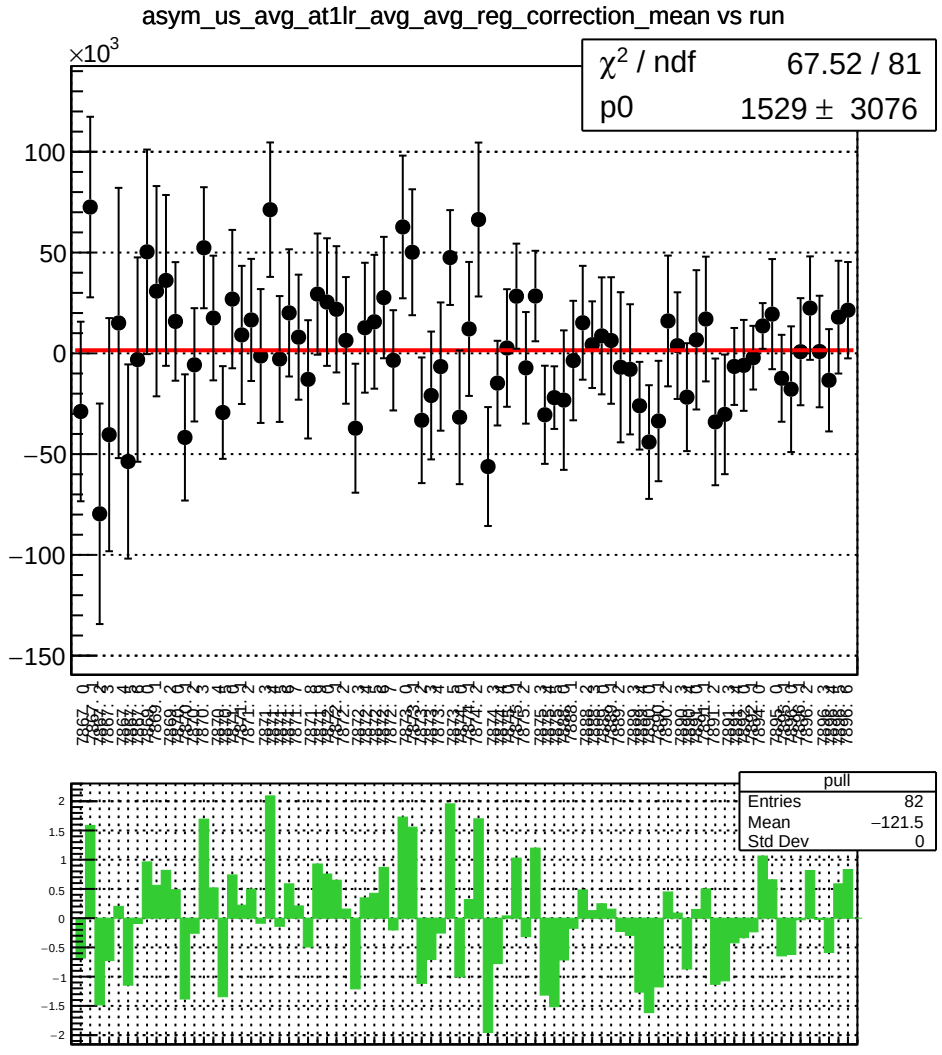

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 61.32 / 81
p0 2.138e−13 ± 5.87e−13
0.15
0.1
0.05
0
−0.05
pull
Entries 82
Mean 72.06
Std Dev 100.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

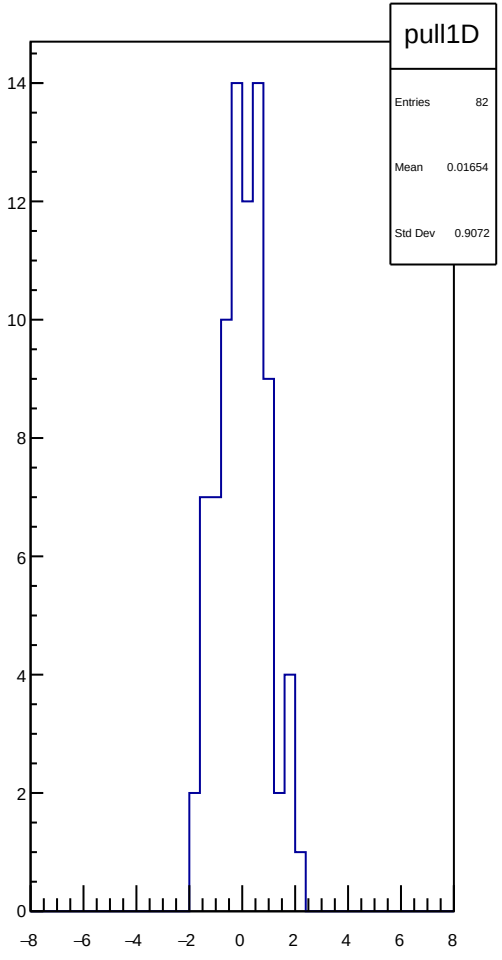

pull1D
Entries 82
Mean −0.005003
Std Dev 0.8647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

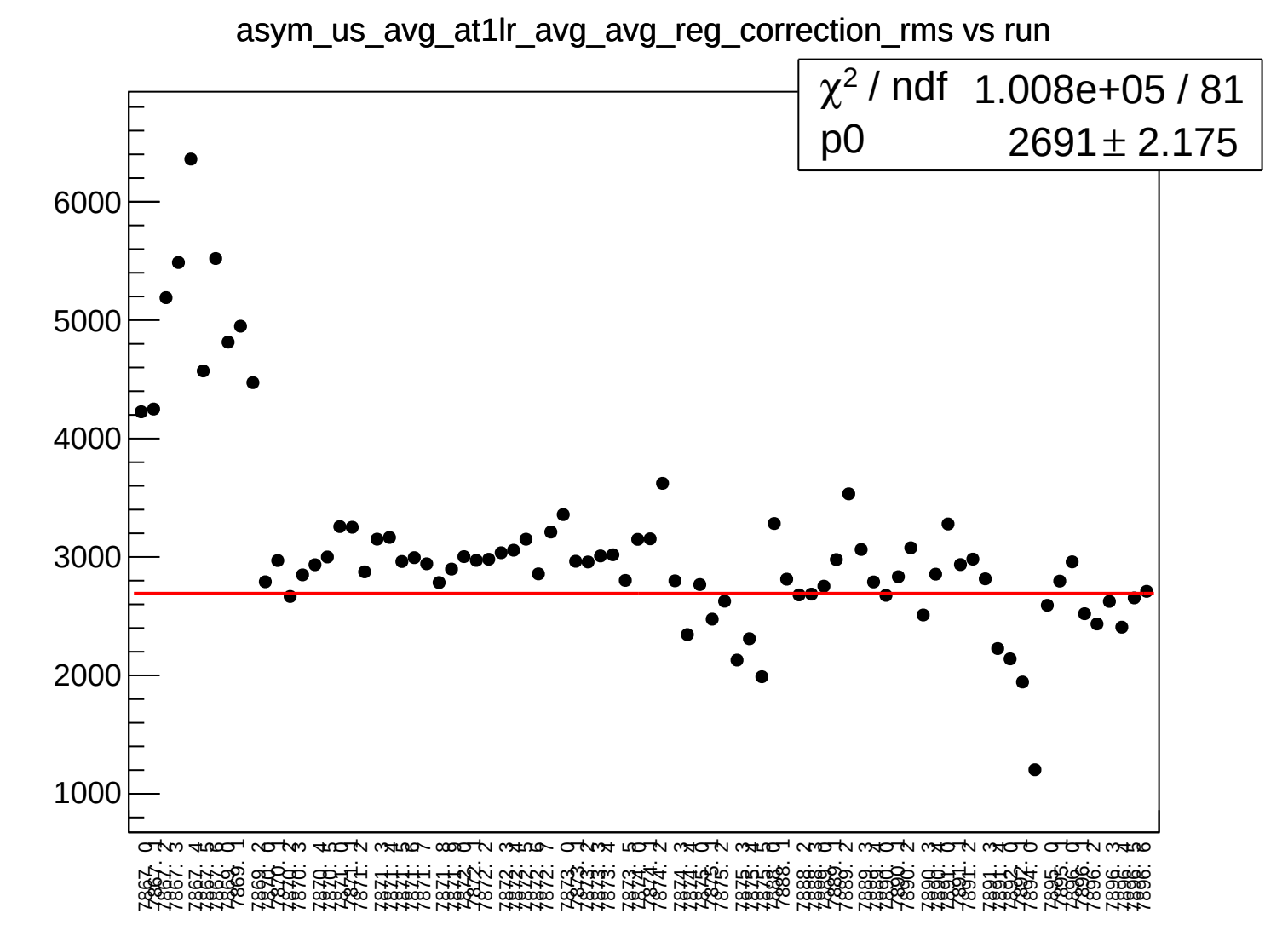

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.604e+05 / 81
p0 3.875e−10 ± 4.151e−13
8
7
6
5
4
3
2
1

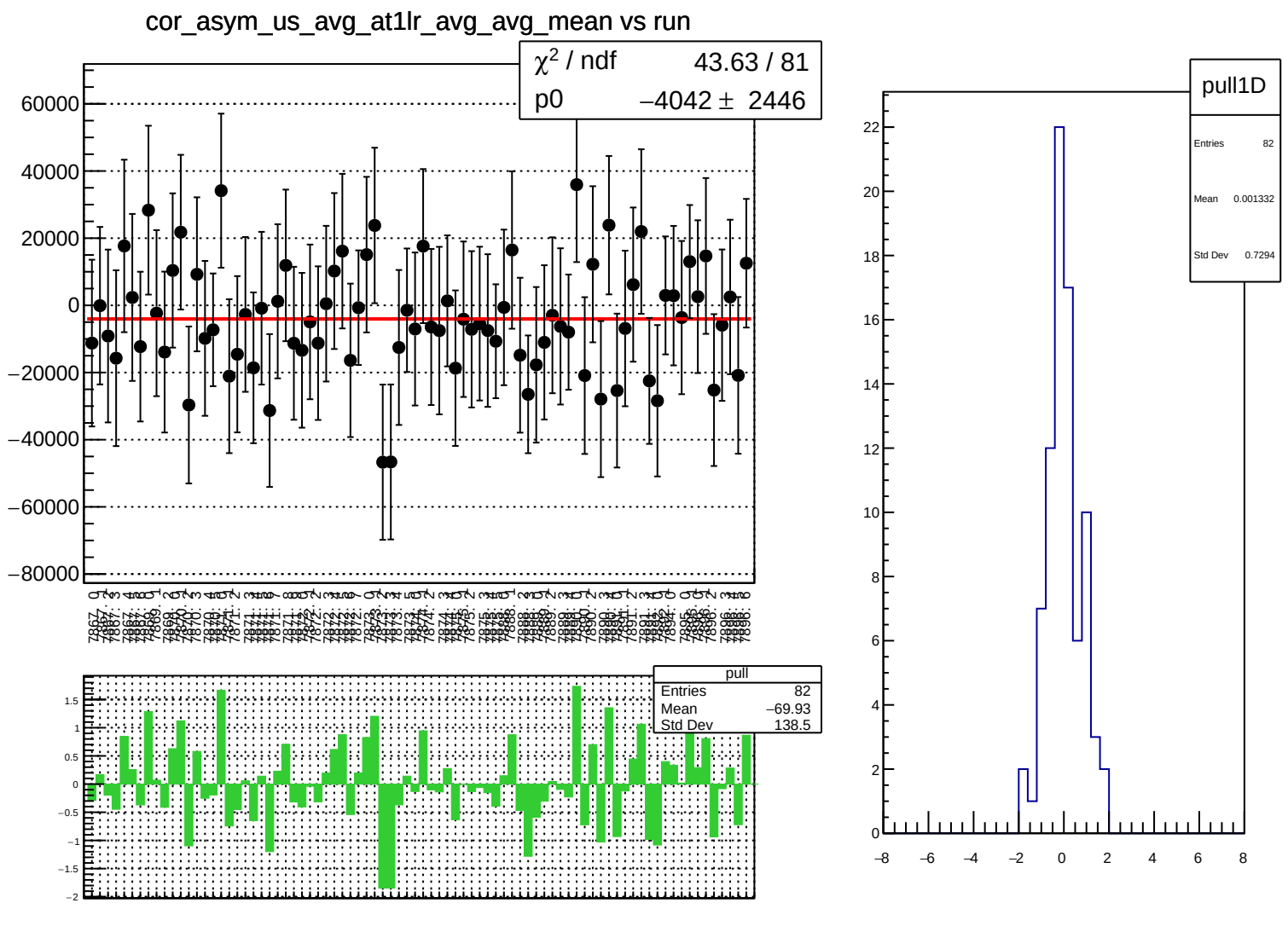

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 43.63 / 81
p0 −4042 ± 2446
pull
Entries 82
Mean −70.05
Std Dev 138.7
pull1D
Entries 82
Mean 0.001328
Std Dev 0.7294

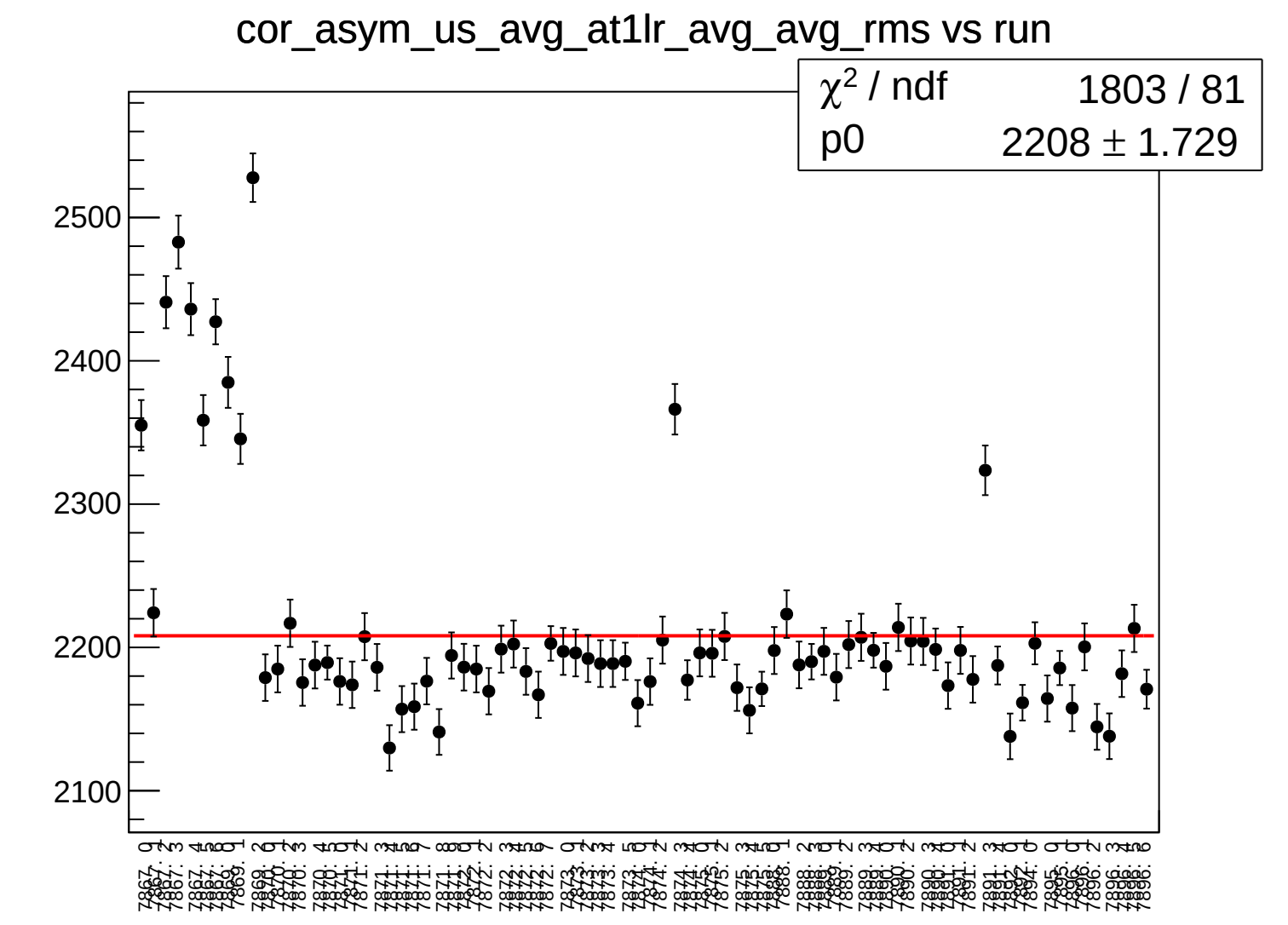

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1803 / 81
p0 2208 ± 1.729
2500
2400
2300
2200
2100

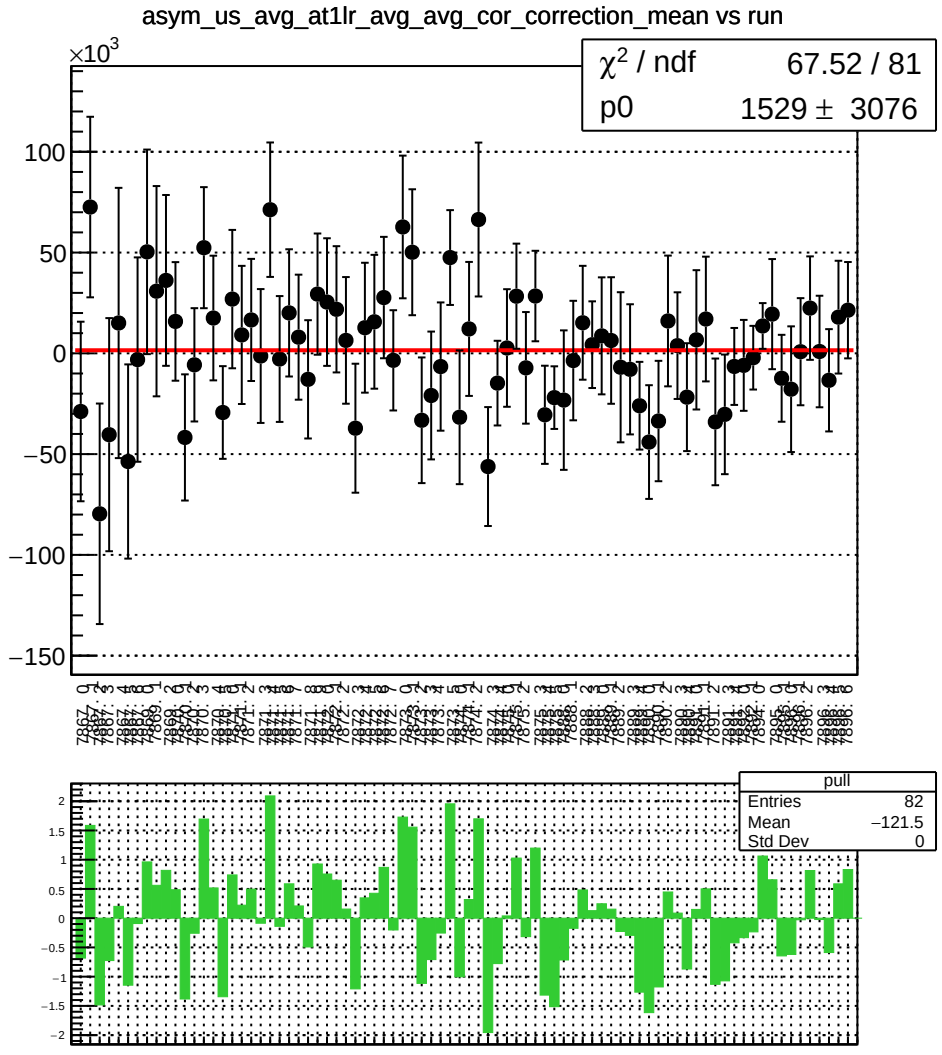

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.52 / 81
p0 1529 ± 3076
100
50
0
−50
−100
−150
pull
Entries 82
Mean −121.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

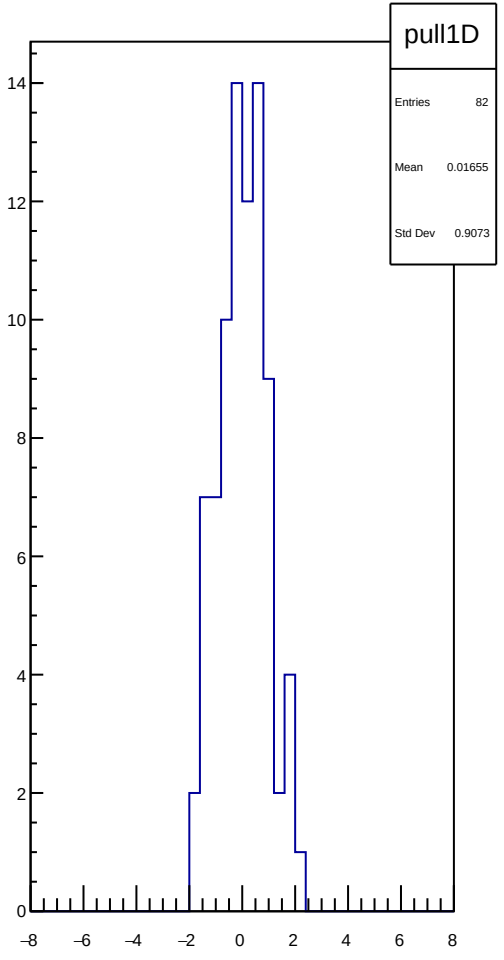

pull1D
Entries 82
Mean 0.01654
Std Dev 0.9072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

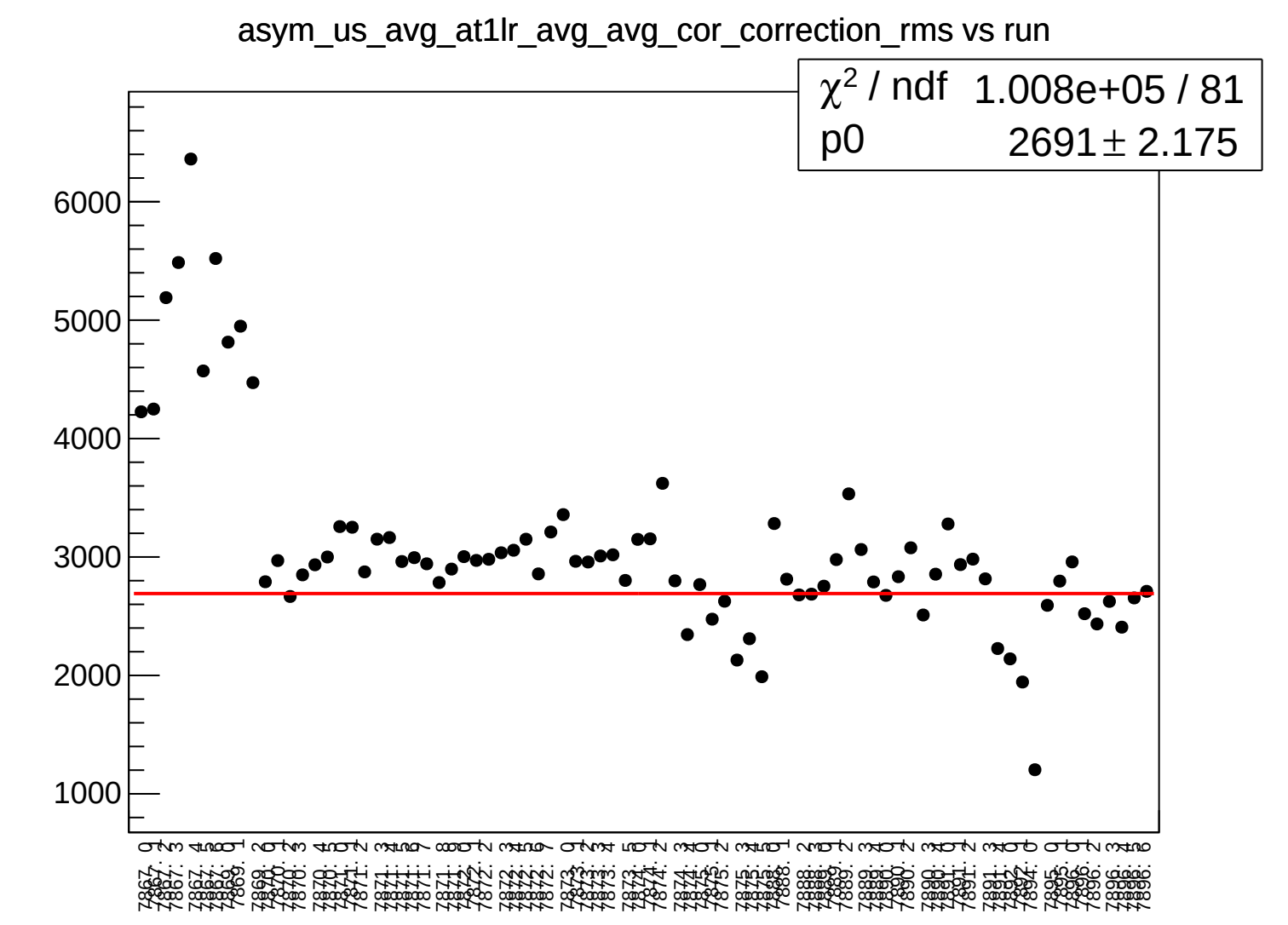

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.008e+05 / 81
p0 2691 ± 2.175
6000
5000
4000
3000
2000
1000

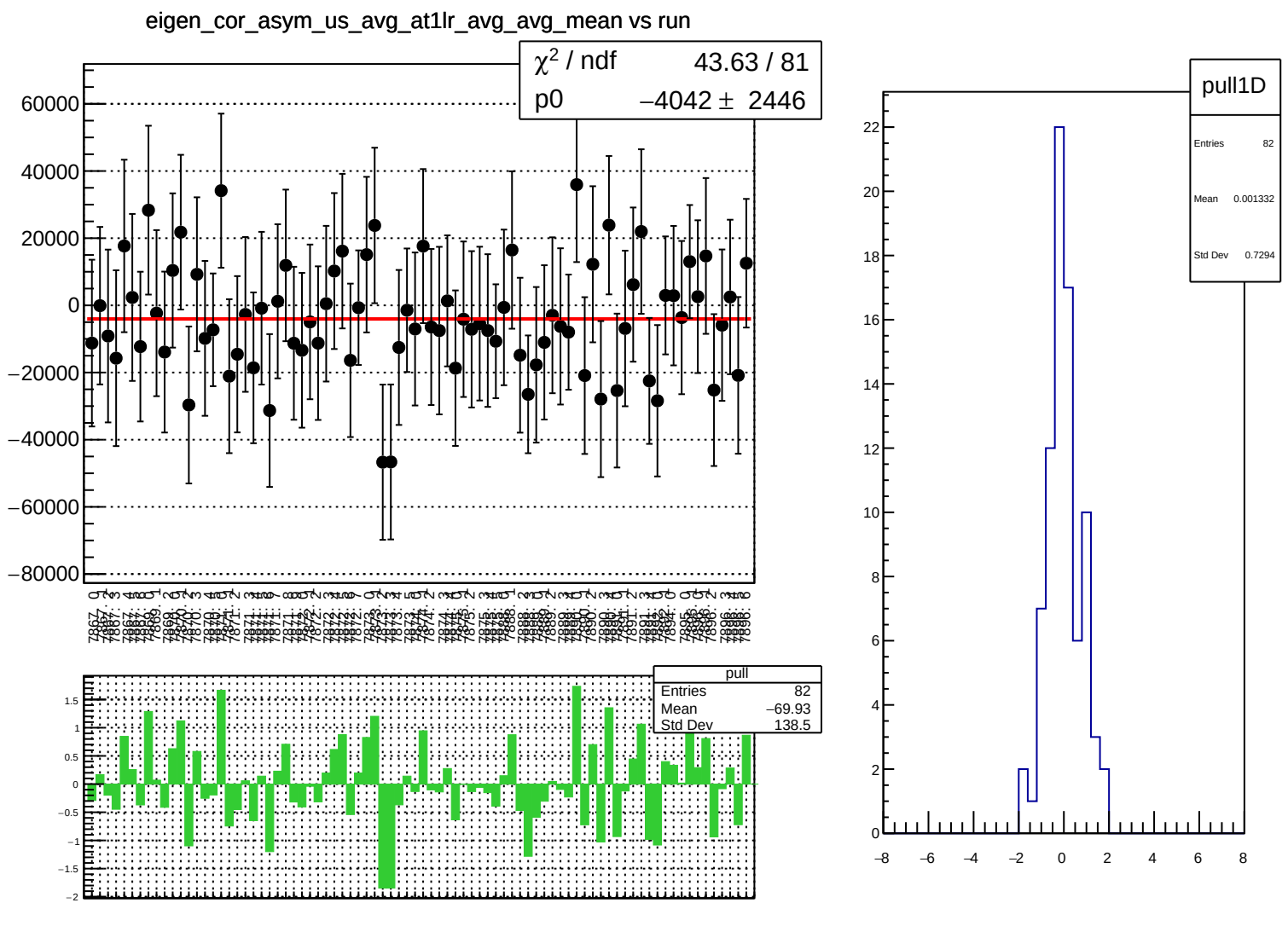

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 43.63 / 81
p0 −4042 ± 2446
pull
Entries 82
Mean −69.93
Std Dev 138.5
pull1D
Entries 82
Mean 0.001332
Std Dev 0.7294

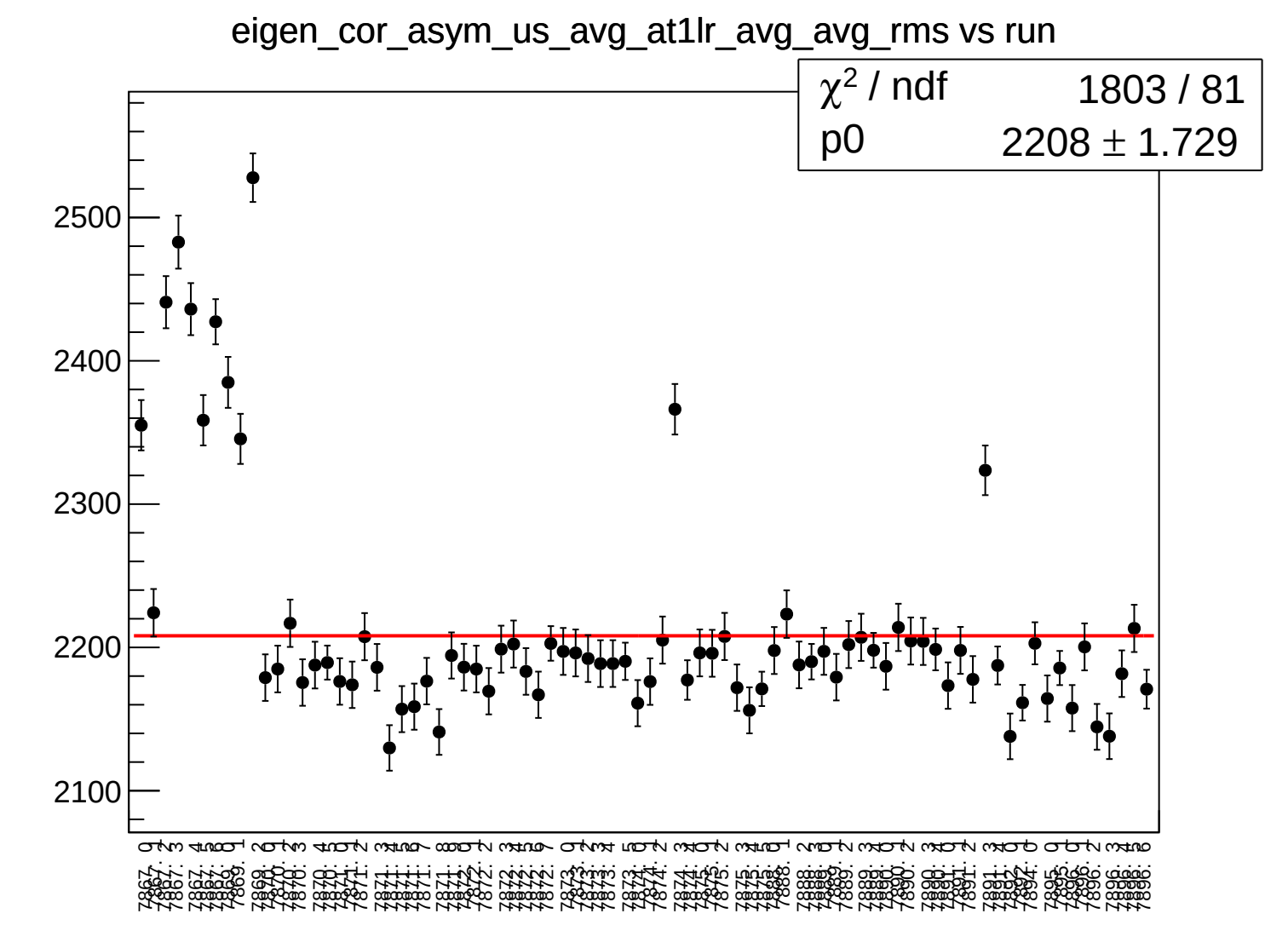

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1803 / 81
p0 2208 ± 1.729
2500
2400
2300
2200
2100

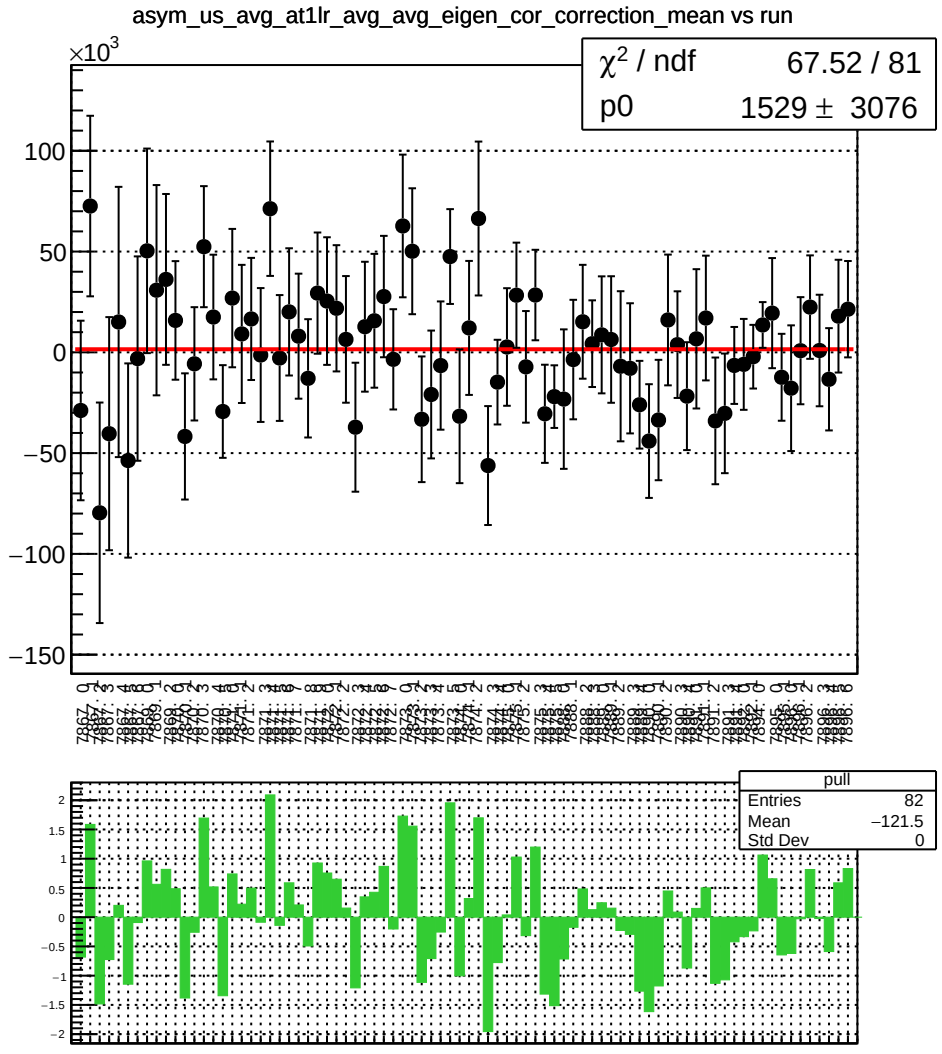

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.52 / 81
p0 1529 ± 3076
100
50
0
−50
−100
−150
pull
Entries 82
Mean −121.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

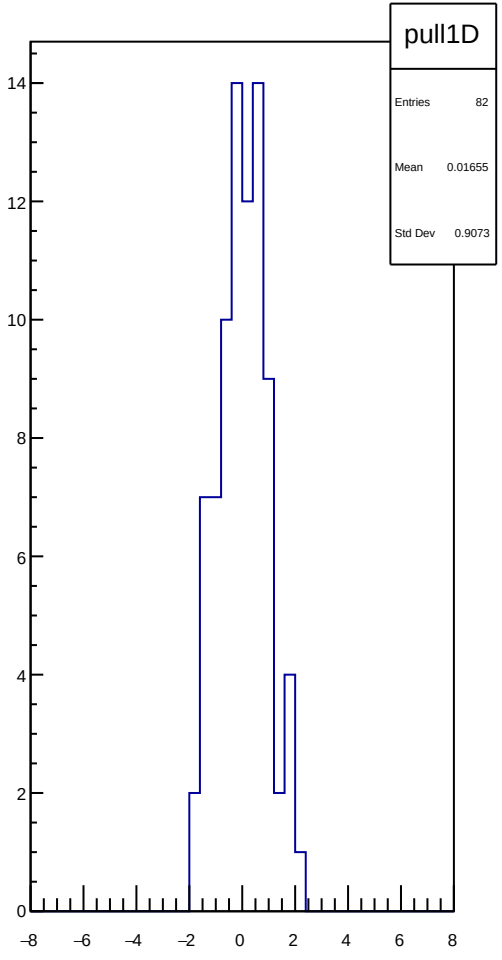

pull1D
Entries 82
Mean 0.01655
Std Dev 0.9073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

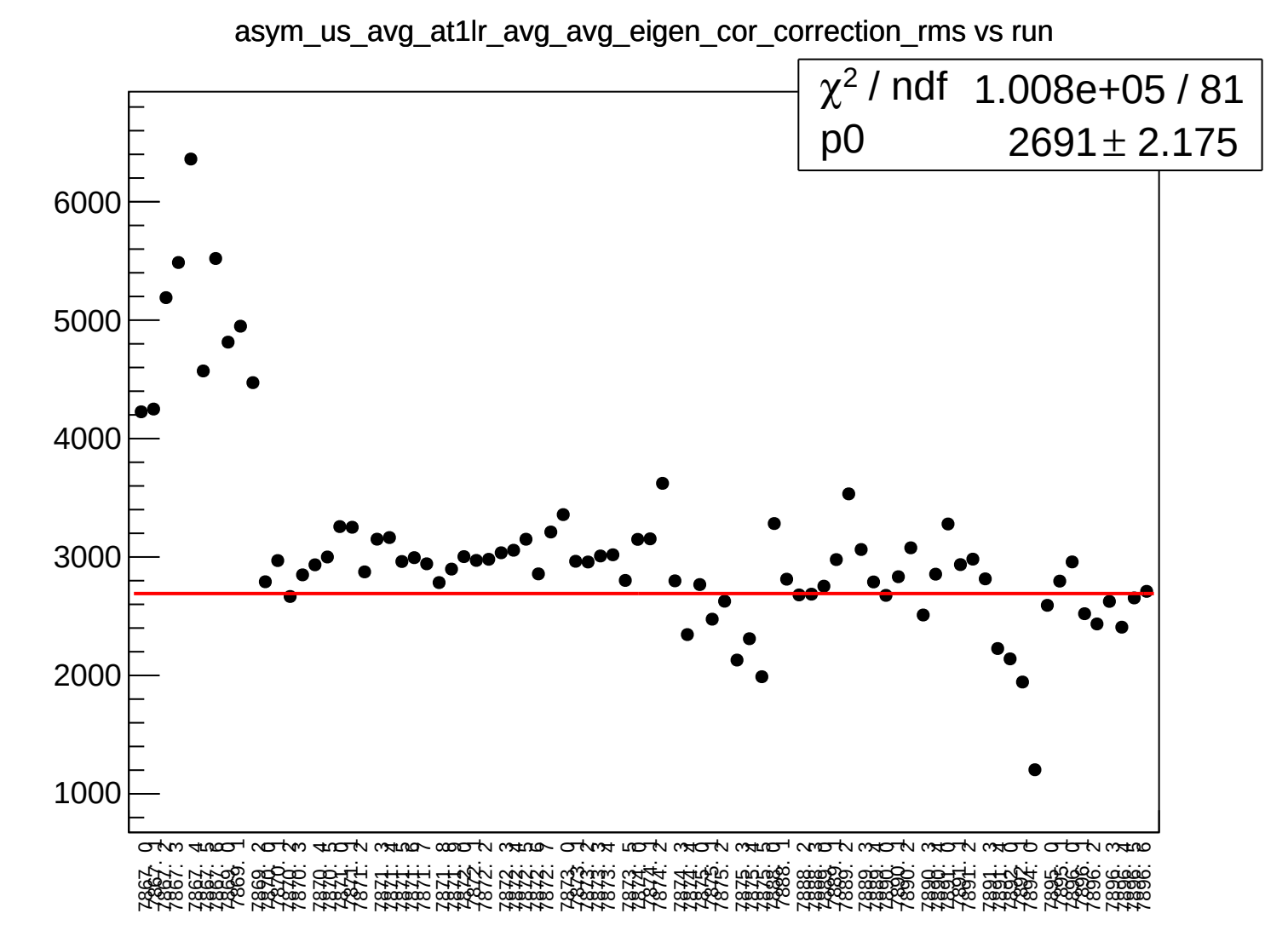

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.008e+05 / 81
p0 2691 ± 2.175
6000
5000
4000
3000
2000
1000

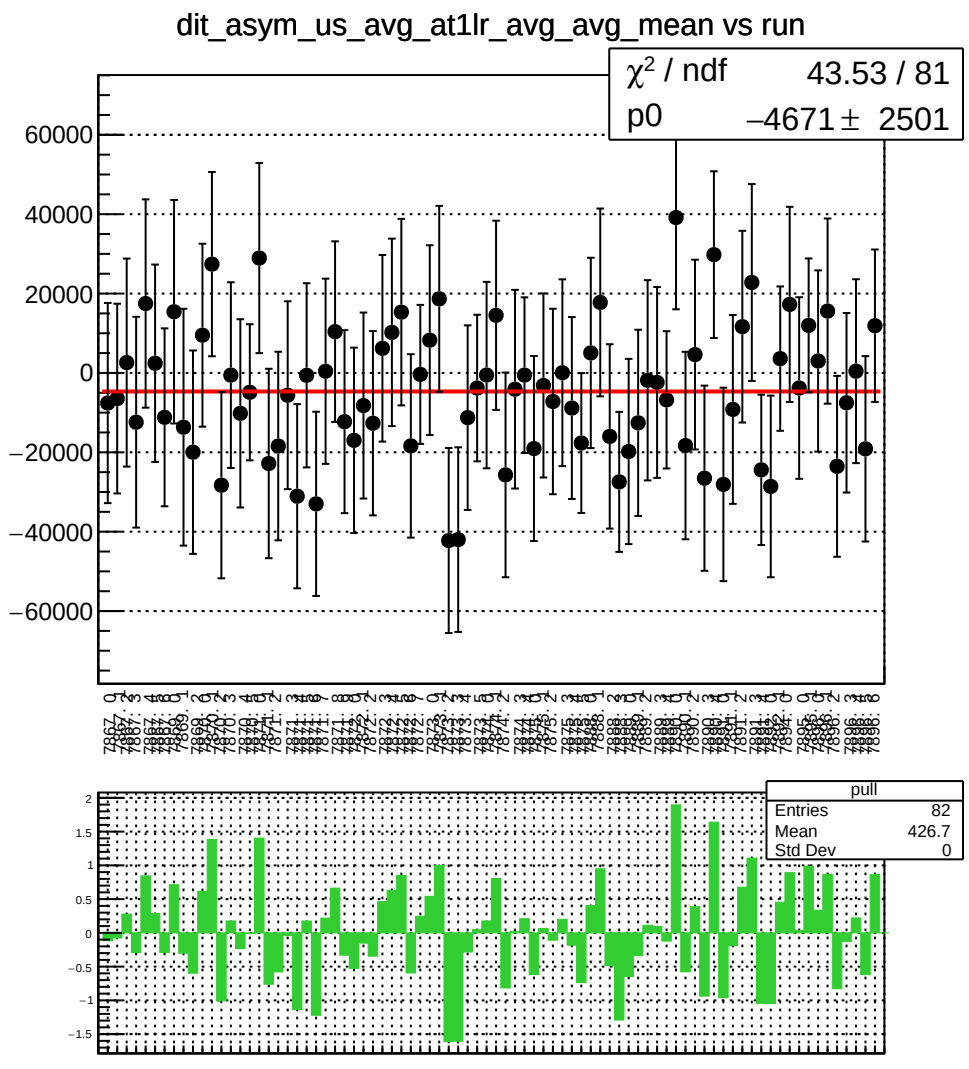

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 43.63 / 81
p0 −4042 ± 2446
pull
Entries 82
Mean −69.93
Std Dev 138.5
pull1D
Entries 82
Mean 0.001332
Std Dev 0.7294

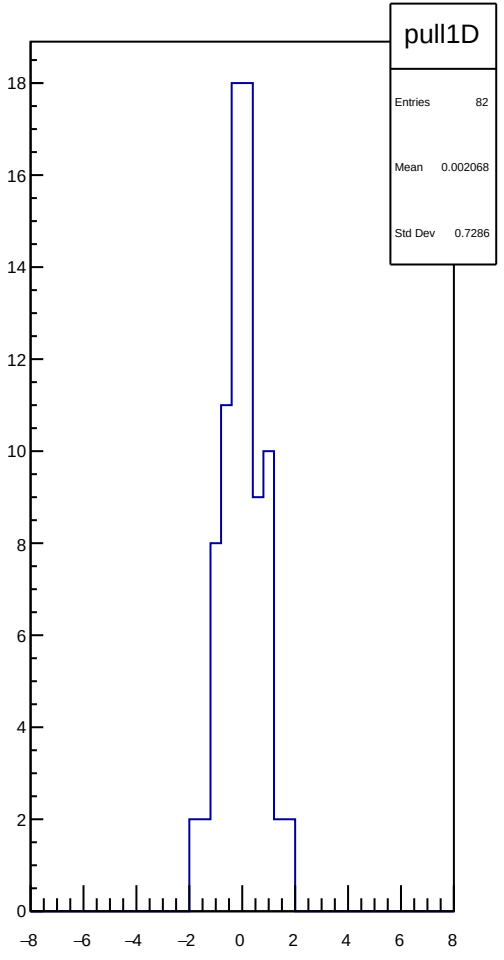

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1803 / 81
p0 2208 ± 1.729
2500
2400
2300
2200
2100

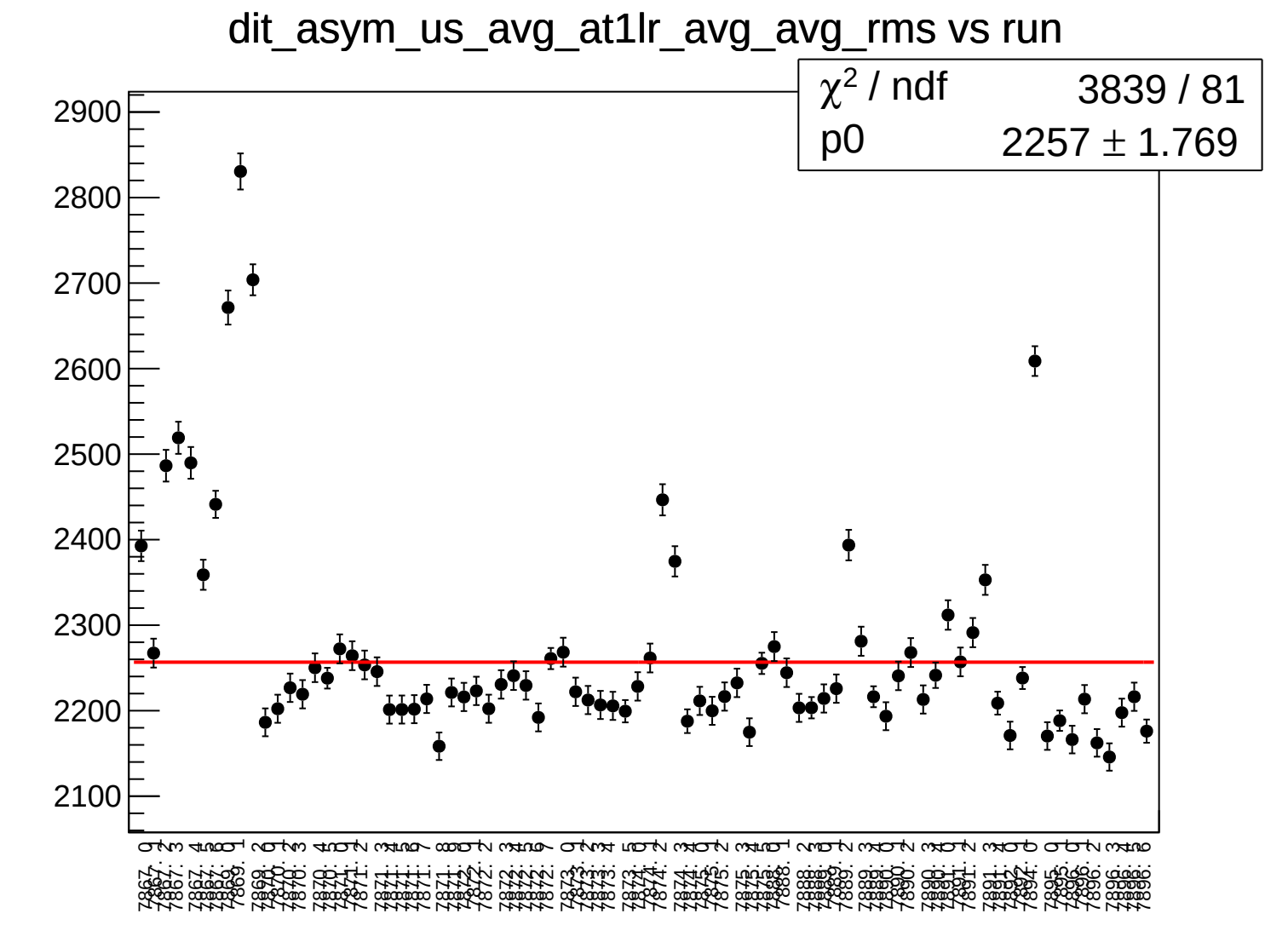

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 67.52 / 81
p0 1529 ± 3076
100
50
0
−50
−100
−150
pull
Entries 82
Mean −121.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

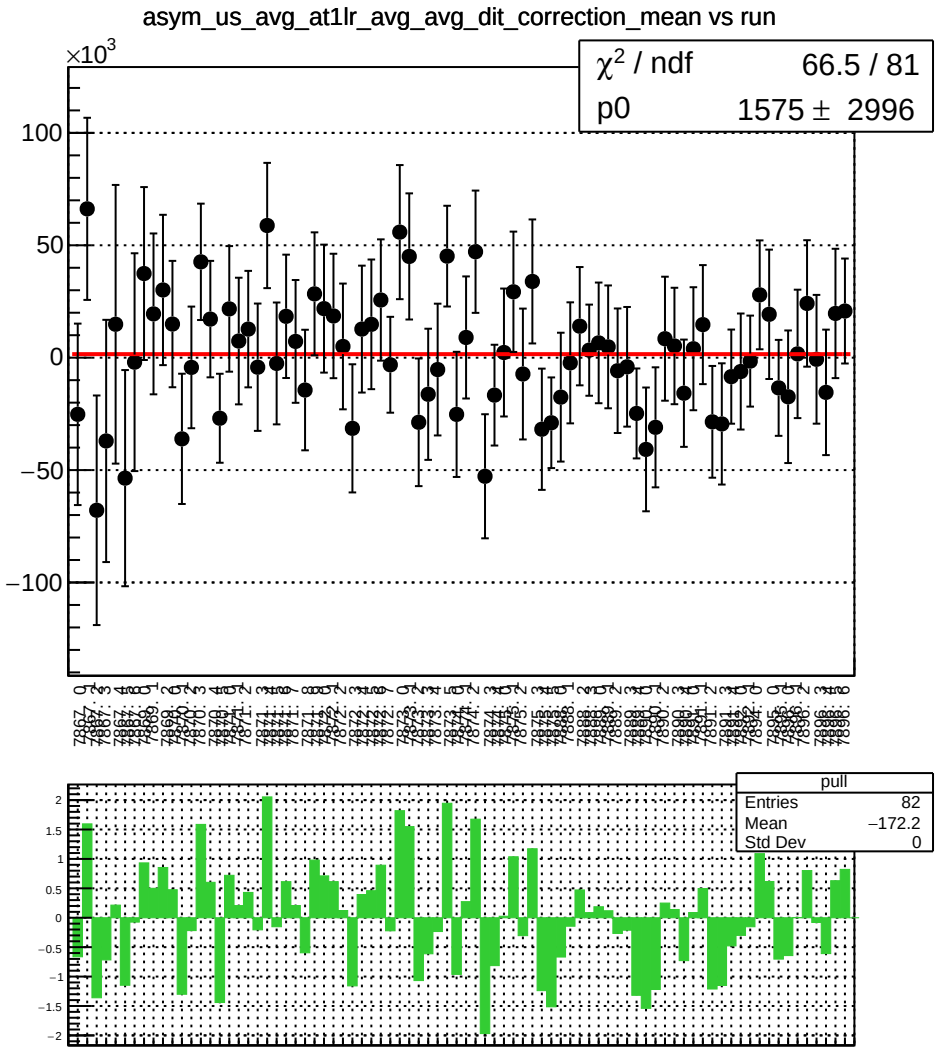

pull1D
Entries 82
Mean 0.01655
Std Dev 0.9073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

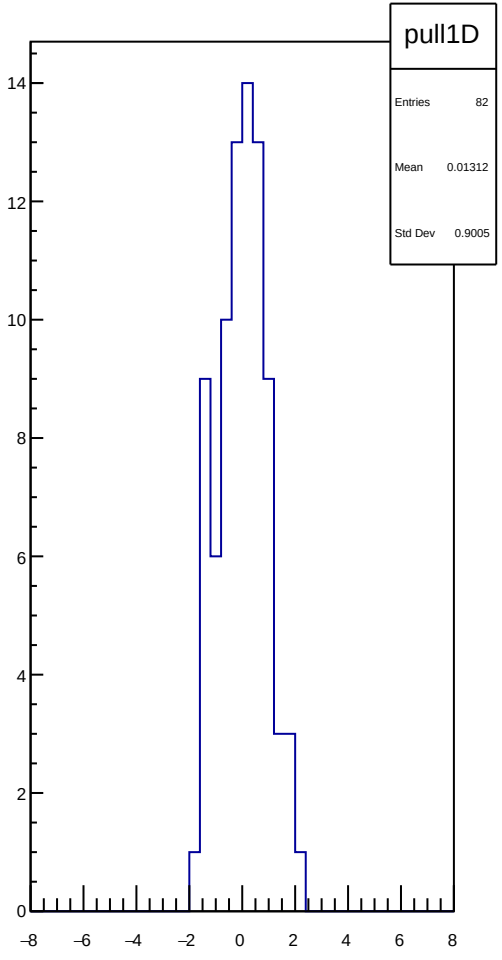

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.008e+05 / 81
p0 2691 ± 2.175
6000
5000
4000
3000
2000
1000

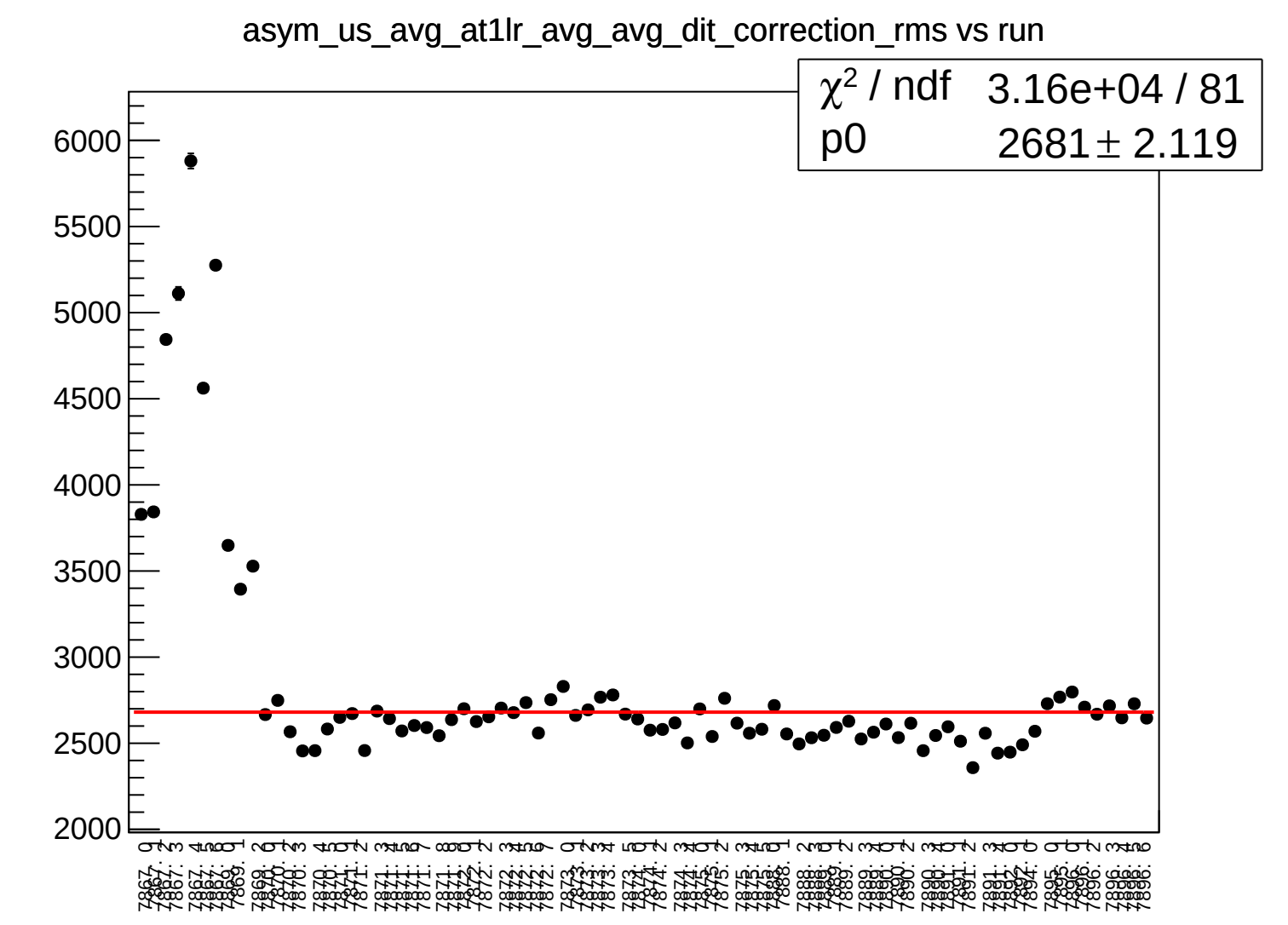

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 43.53 / 81
p0 −4671 ± 2501
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 426.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

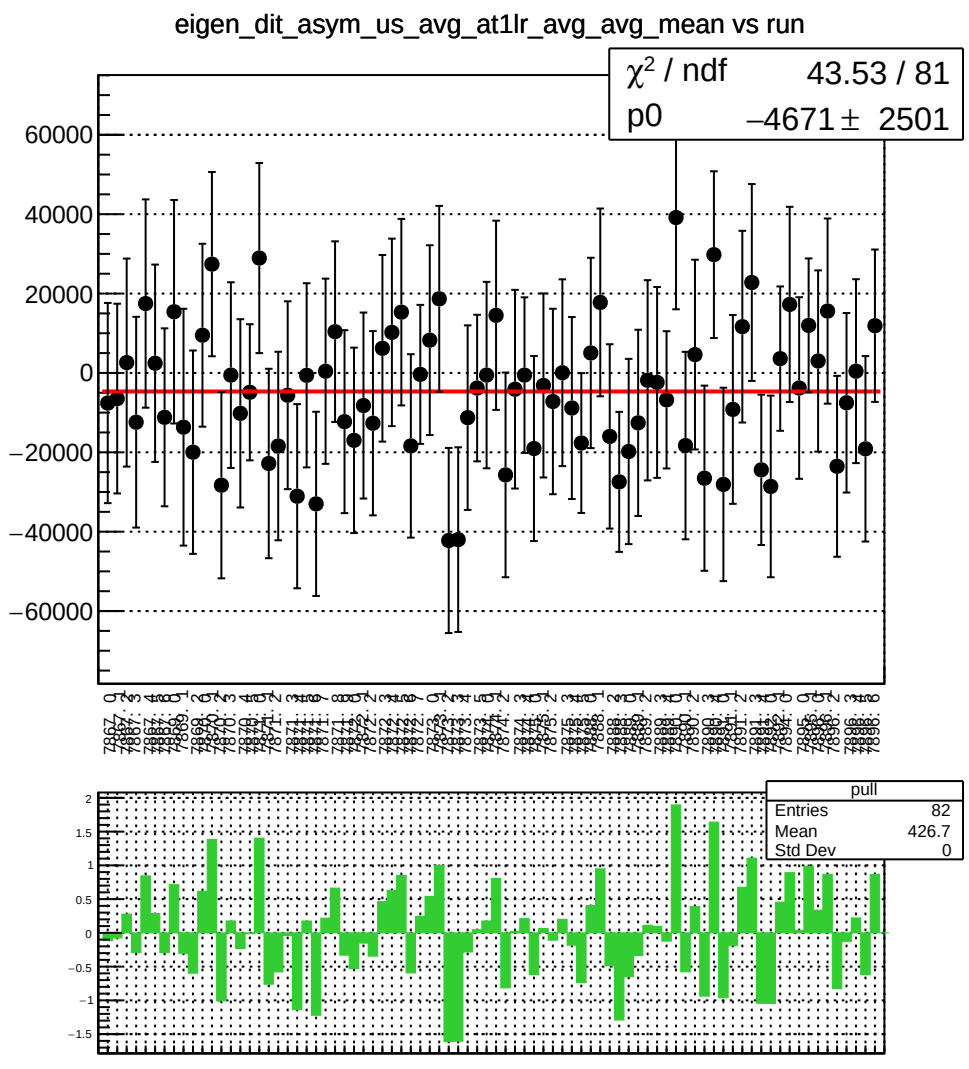

pull1D
Entries 82
Mean 0.002068
Std Dev 0.7286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

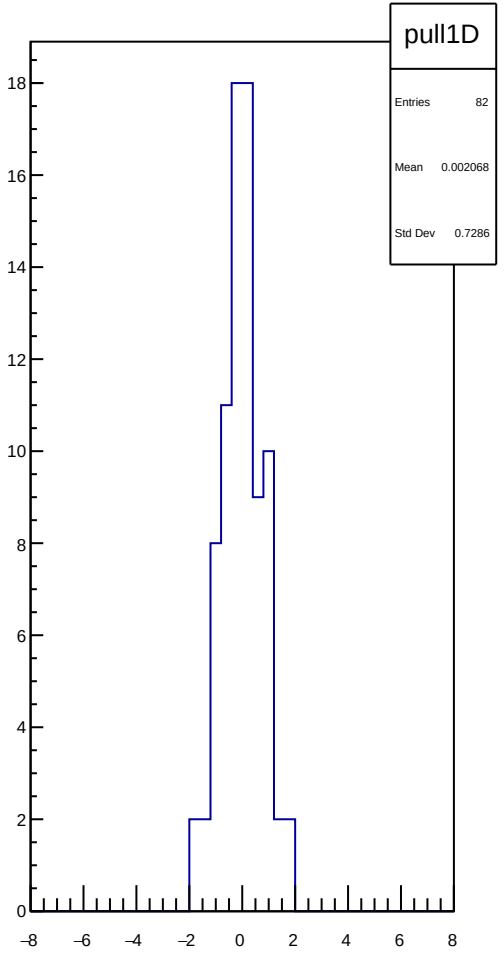

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3839 / 81
p0 2257 ± 1.769
2900
2800
2700
2600
2500
2400
2300
2200
2100

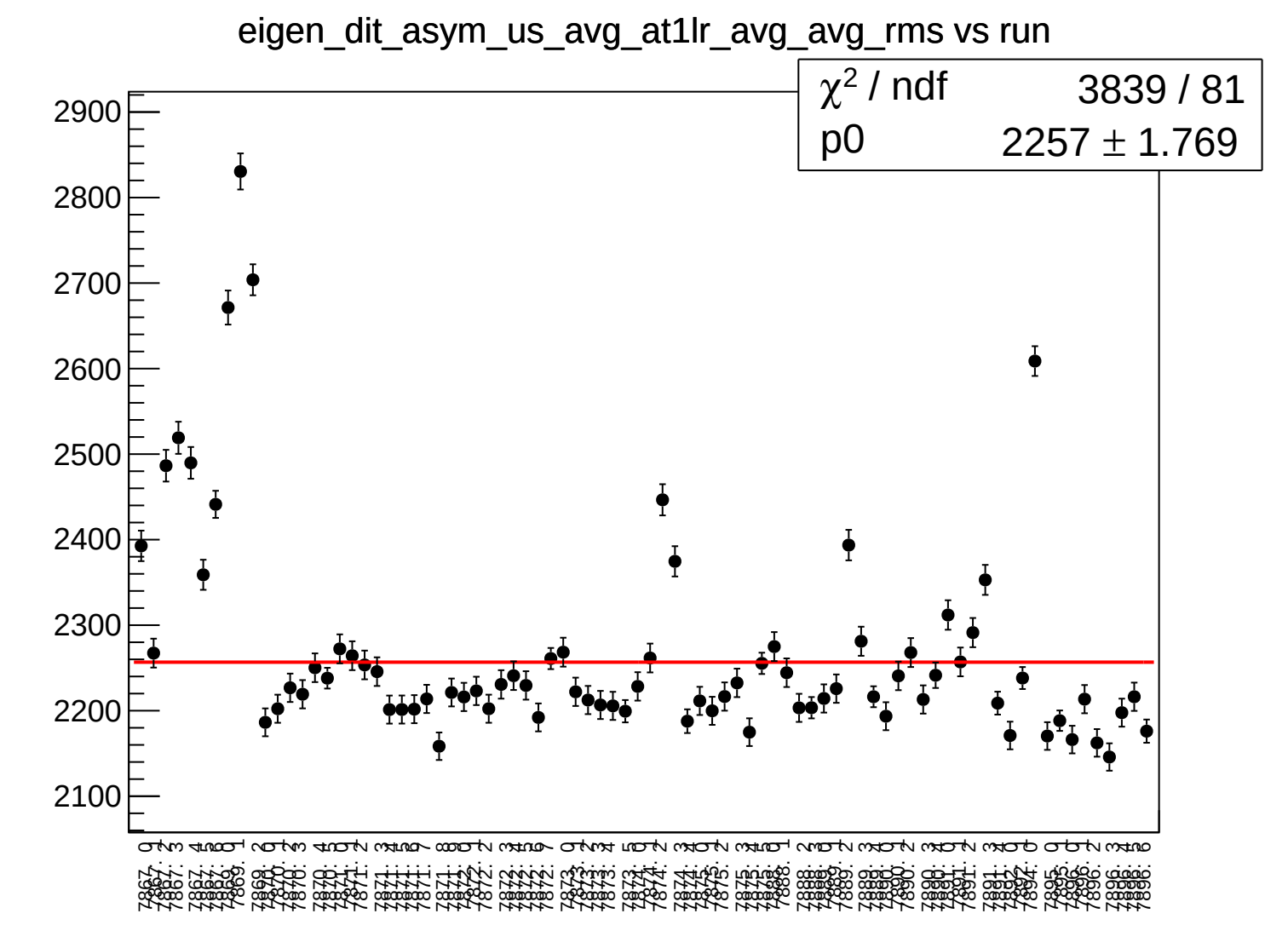

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.5 / 81
p0 1575 ± 2996
100
50
0
−50
−100
pull
Entries 82
Mean −172.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

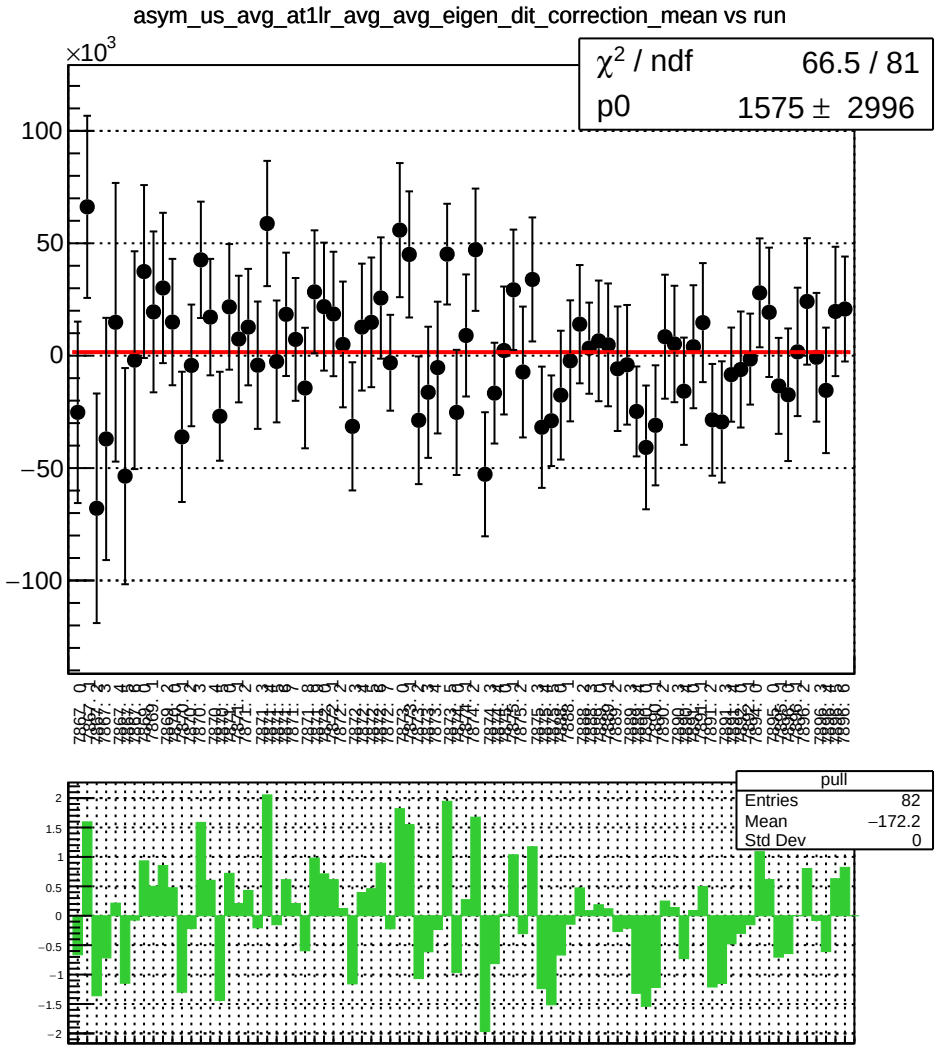

pull1D
Entries 82
Mean 0.01312
Std Dev 0.9005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

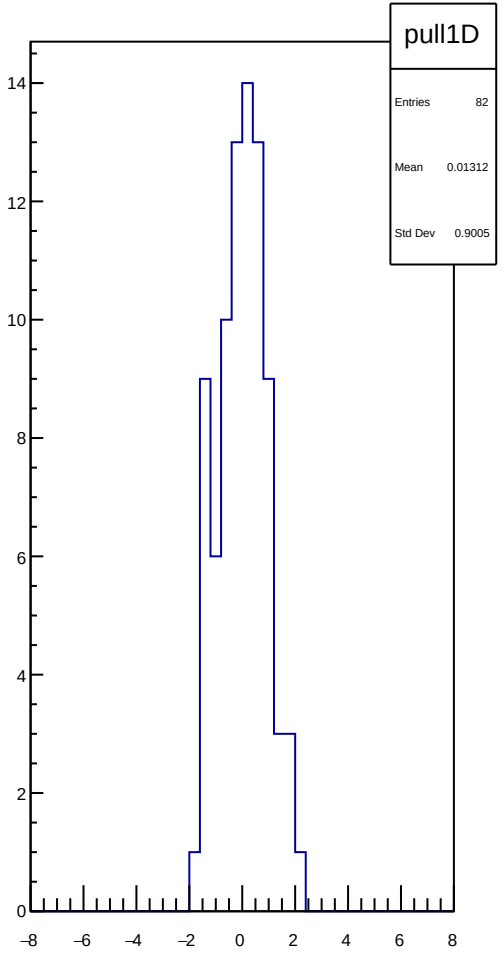

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.16e+04 / 81
p0 2681 ± 2.119
6000
5500
5000
4500
4000
3500
3000
2500
2000

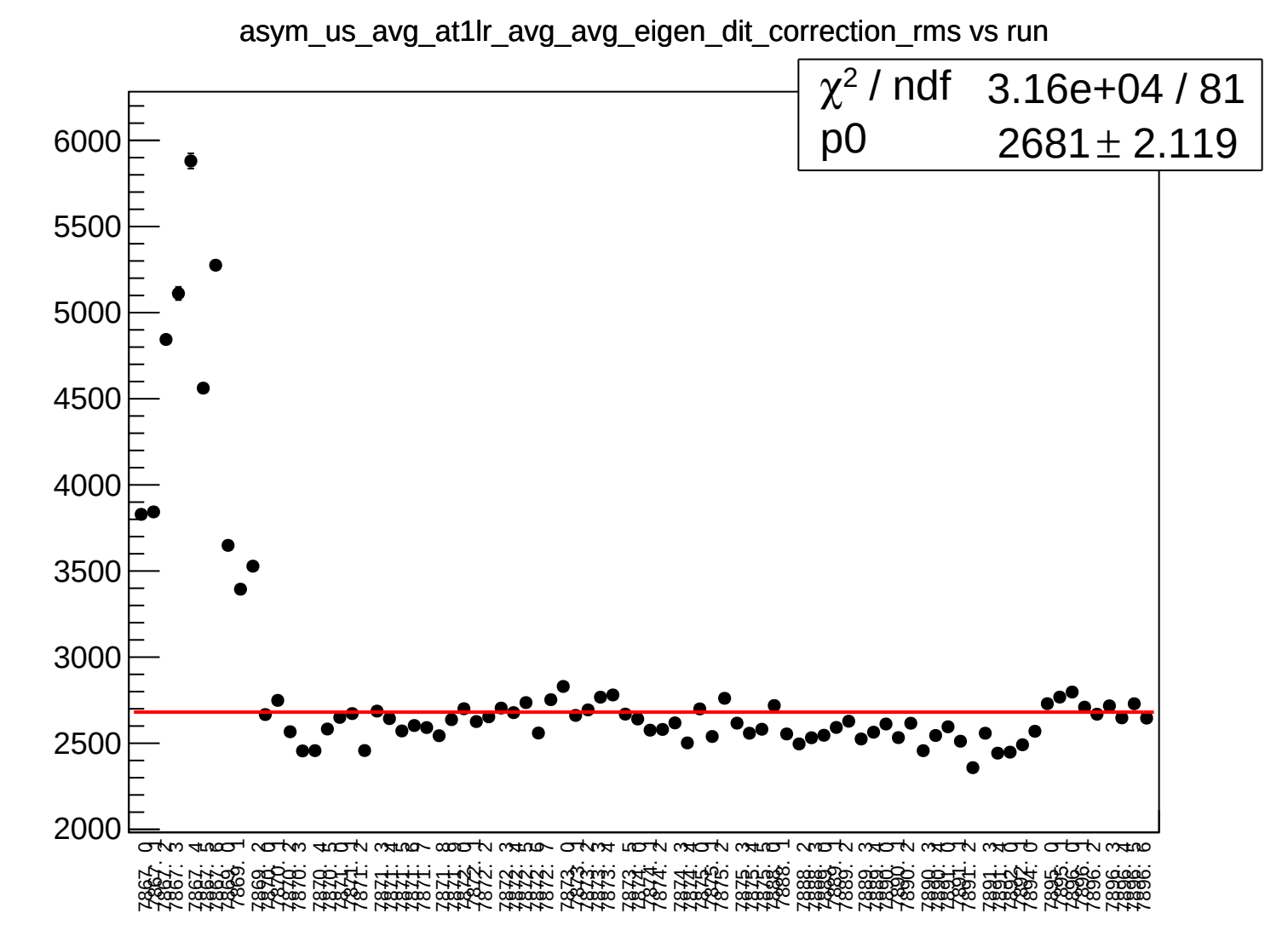

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 43.53 / 81
p0 −4671 ± 2501
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 426.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

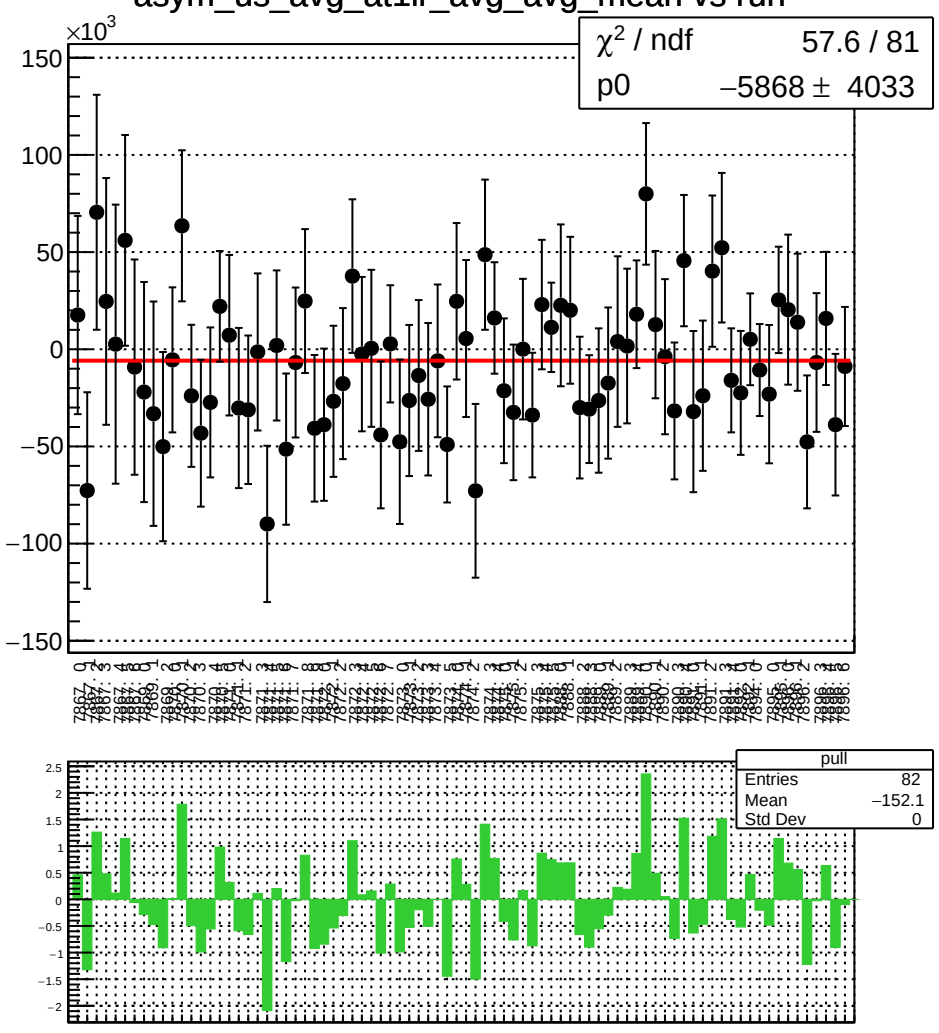

pull1D
Entries 82
Mean 0.002068
Std Dev 0.7286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

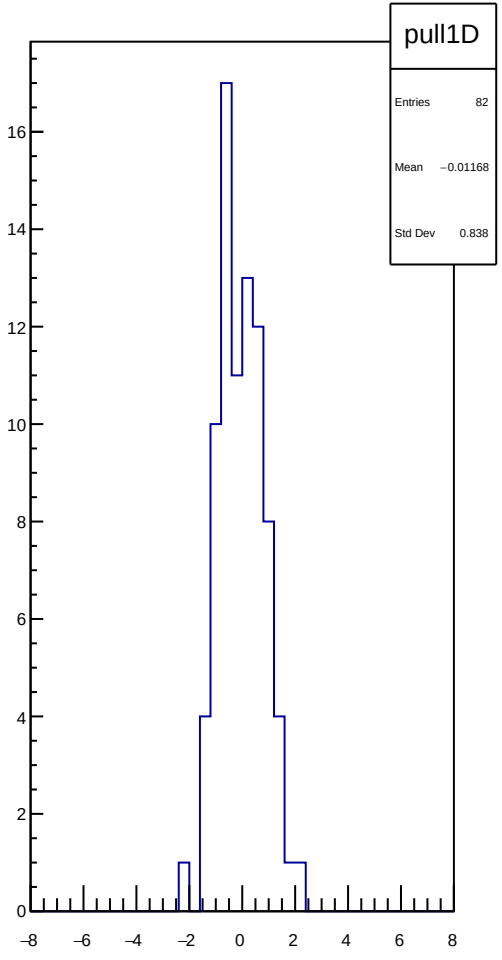

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3839 / 81
p0 2257 ± 1.769
2900
2800
2700
2600
2500
2400
2300
2200
2100

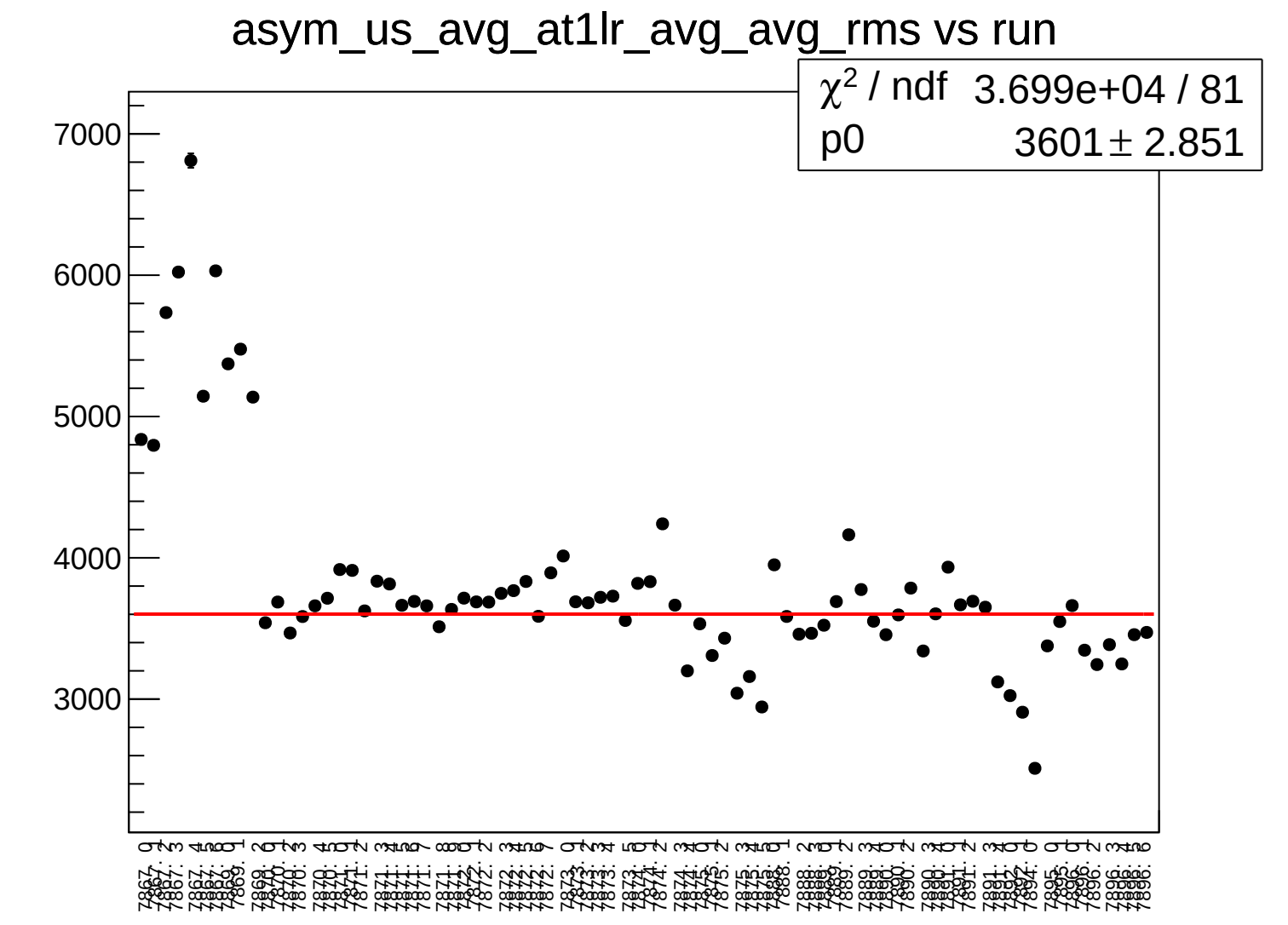

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.5 / 81
p0 1575 ± 2996
100
50
0
−50
−100
pull
Entries 82
Mean −172.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

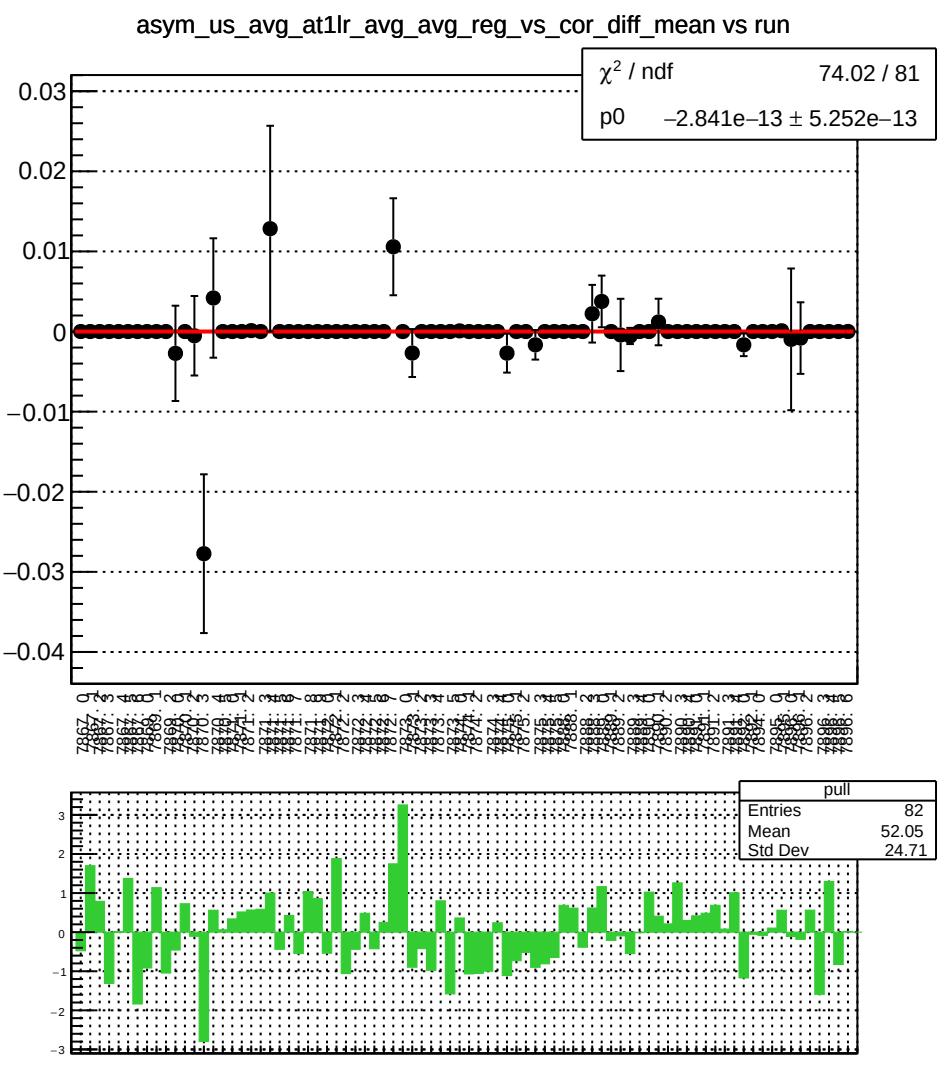

pull1D
Entries 82
Mean 0.01312
Std Dev 0.9005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

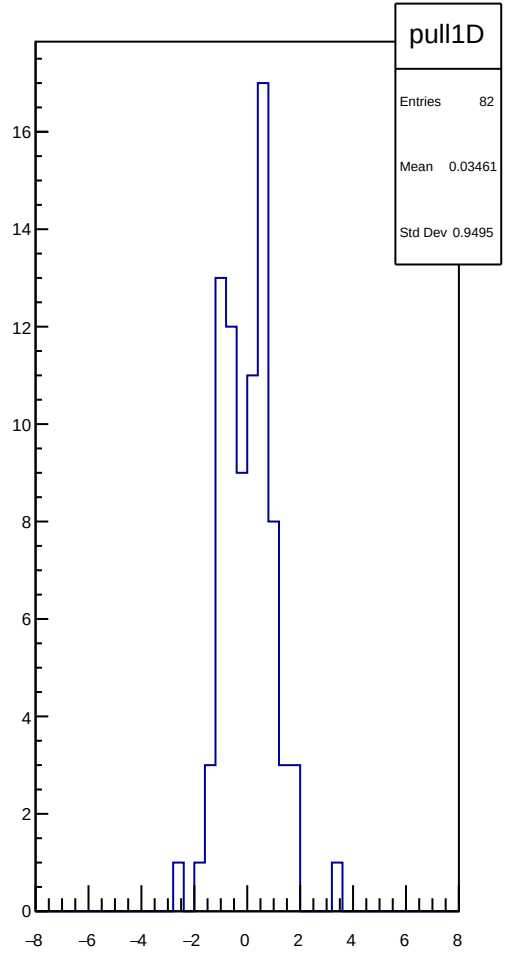

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.16e+04 / 81
p0 2681 ± 2.119
6000
5500
5000
4500
4000
3500
3000
2500
2000

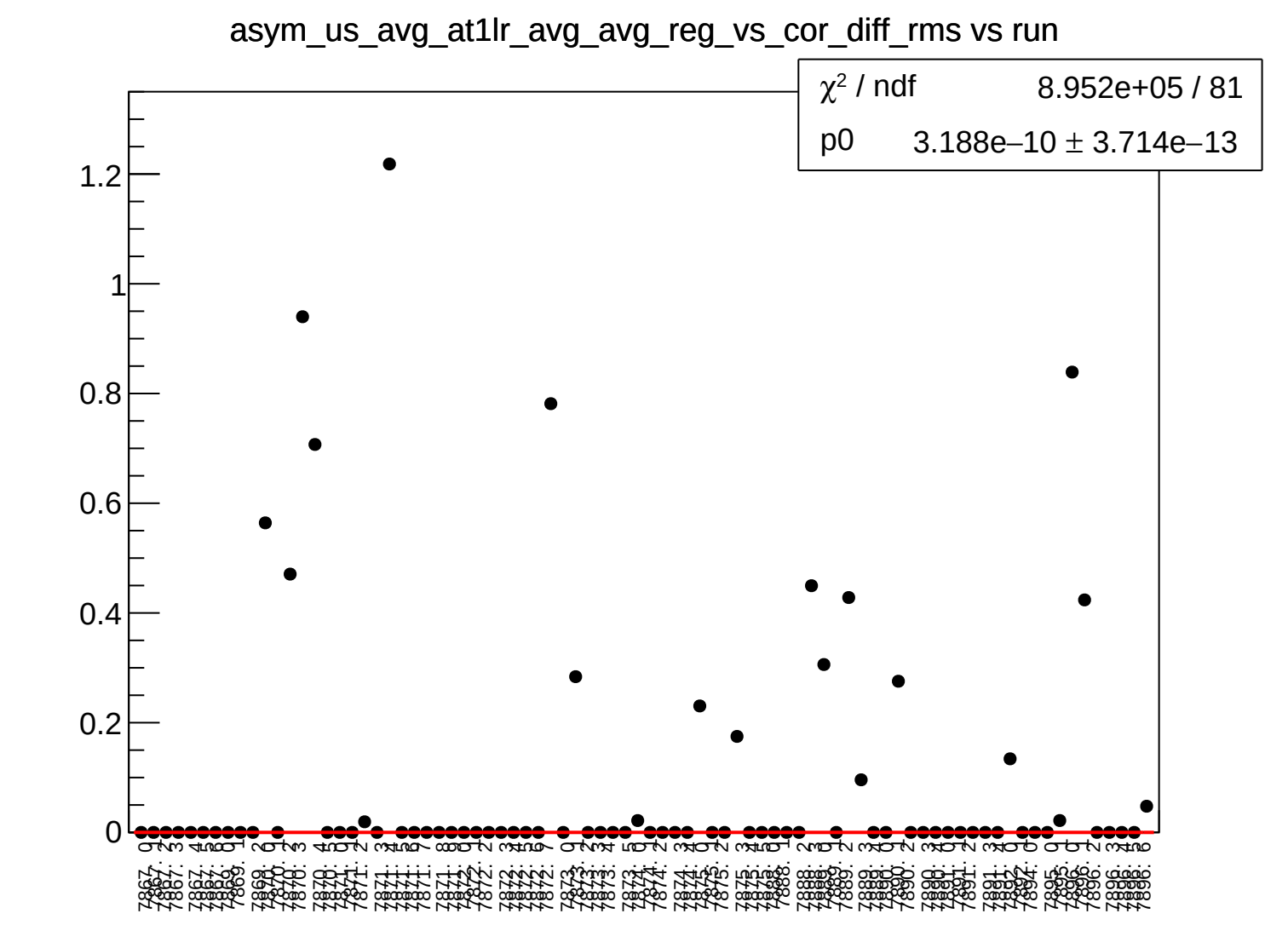

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 57.6 / 81
p0 −5868 ± 4033
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −152.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

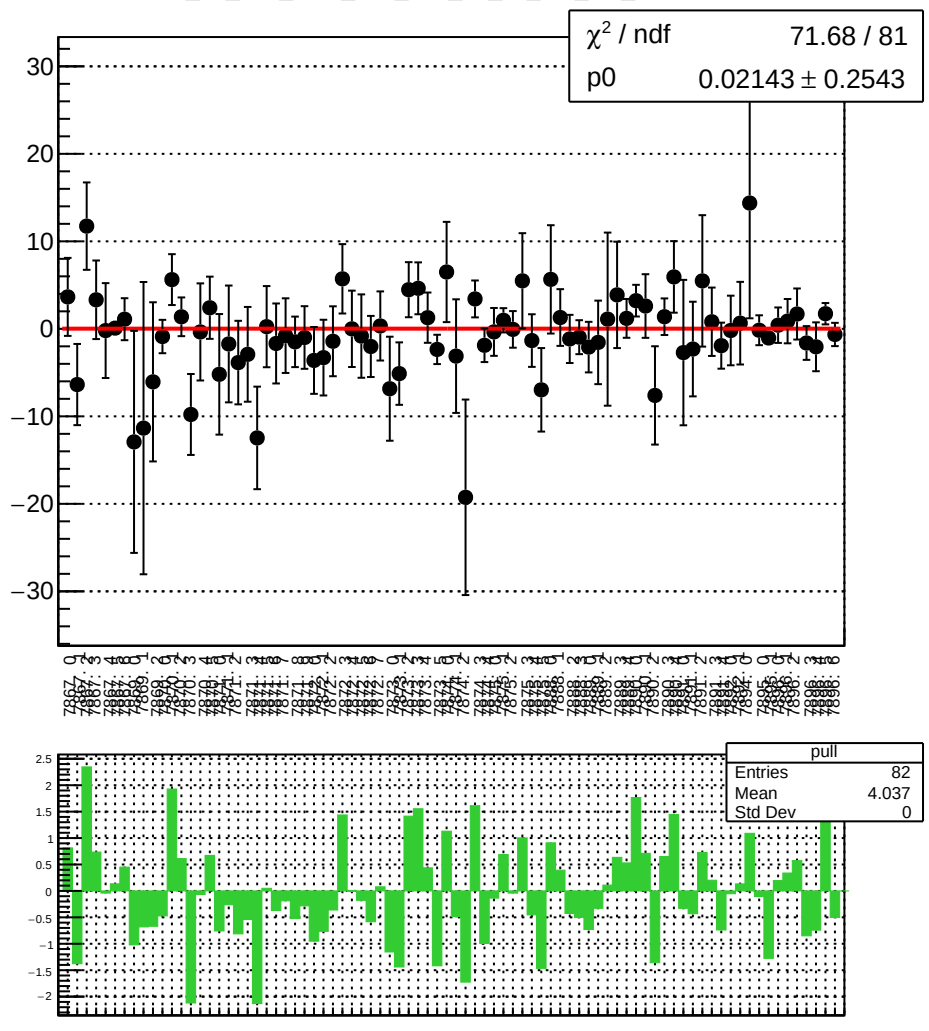

pull1D
Entries 82
Mean −0.01168
Std Dev 0.838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

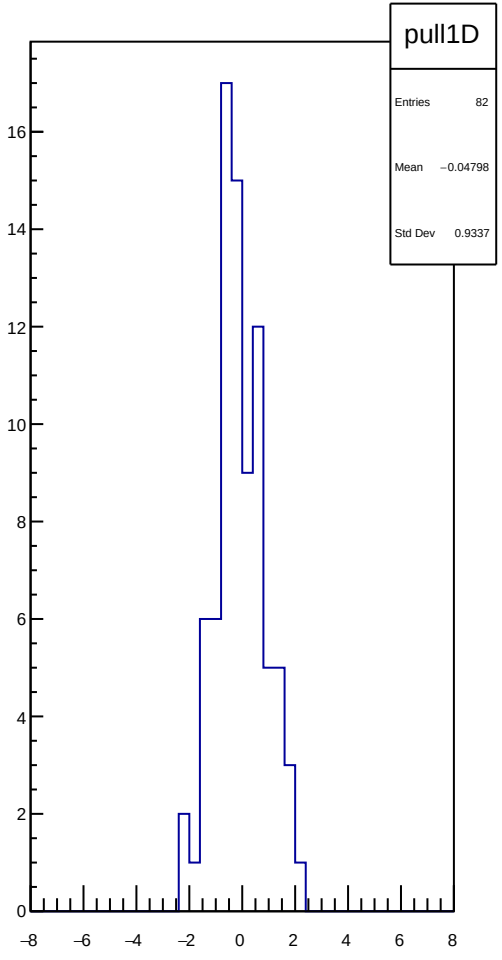

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3.699e+04 / 81
p0 3601 ± 2.851
7000
6000
5000
4000
3000

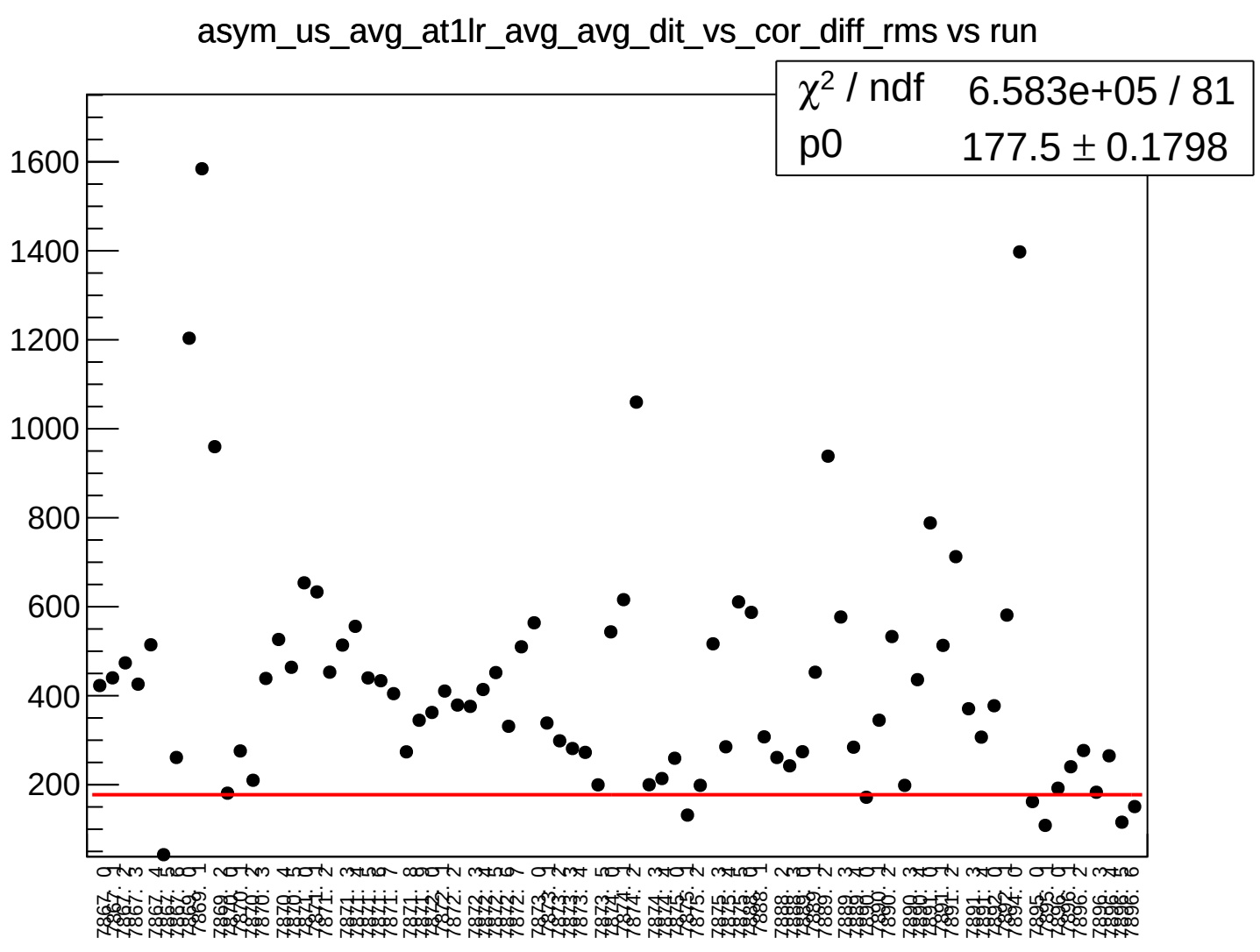

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.02 / 81
p0 −2.841e−13 ± 5.252e−13
pull
Entries 82
Mean 52.05
Std Dev 24.71

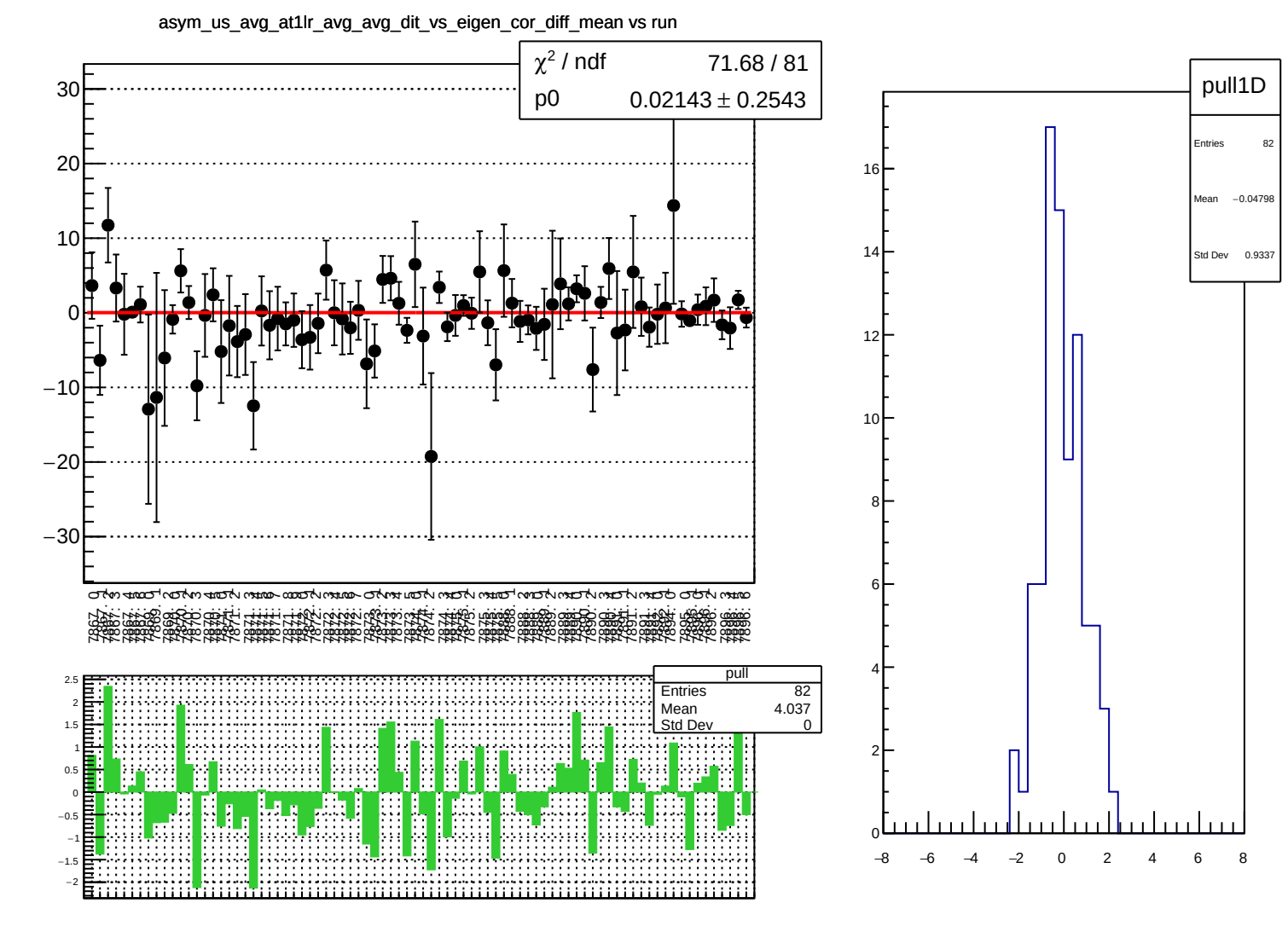

pull1D
Entries 82
Mean 0.03461
Std Dev 0.9495

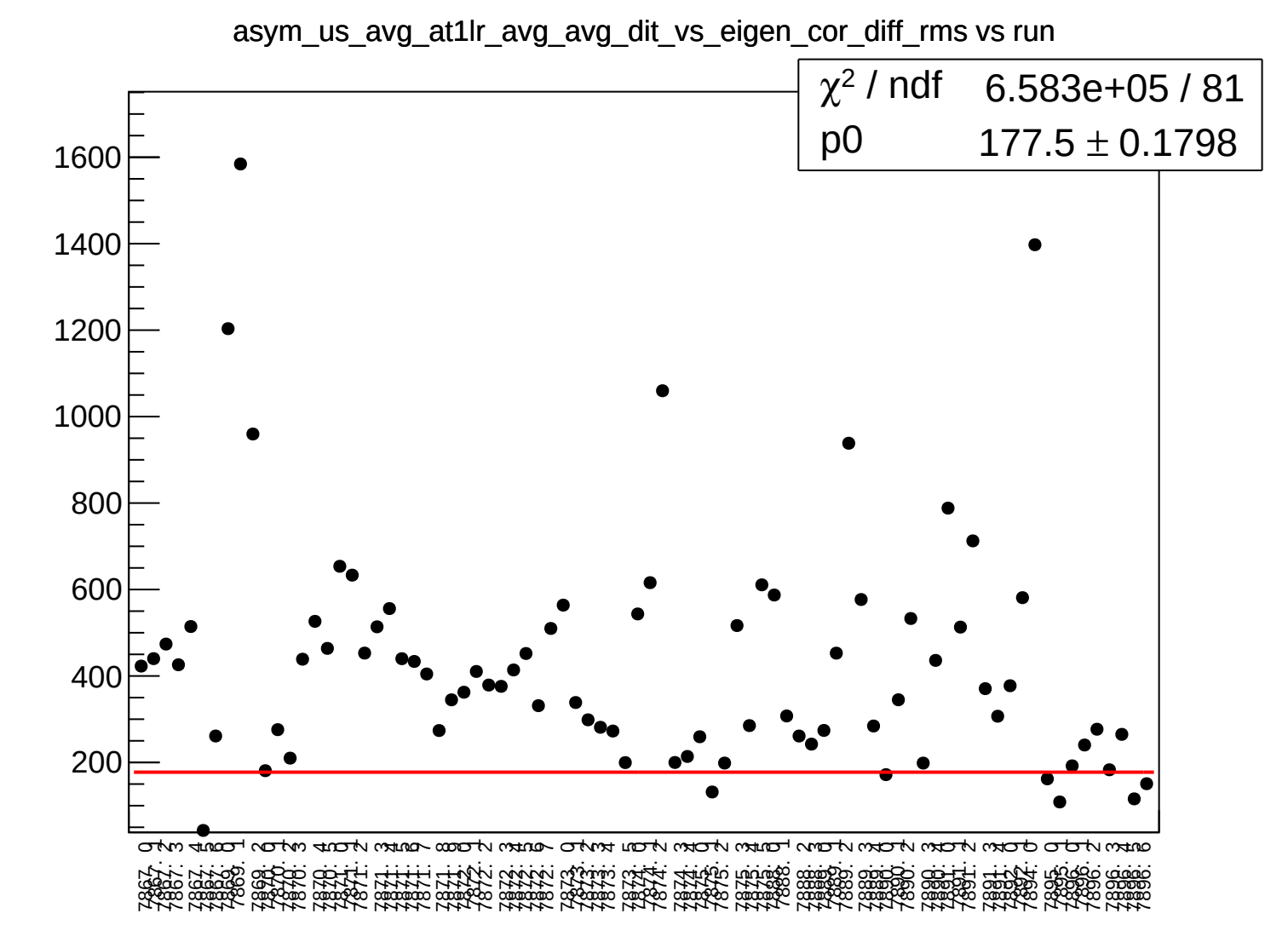

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.952e+05 / 81
p0 3.188e−10 ± 3.714e−13
1.2
1
0.8
0.6
0.4
0.2
0

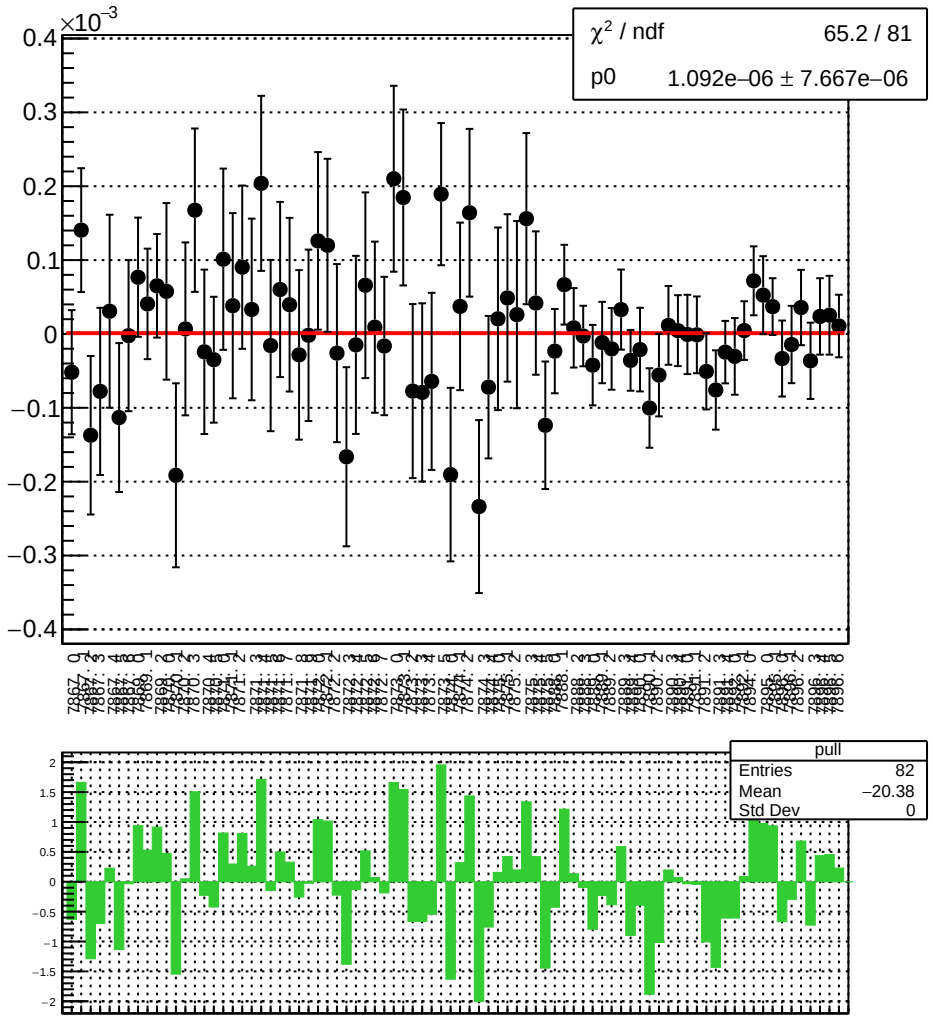

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.68 / 81
p0 0.02143 ± 0.2543
pull
Entries 82
Mean 4.037
Std Dev 0

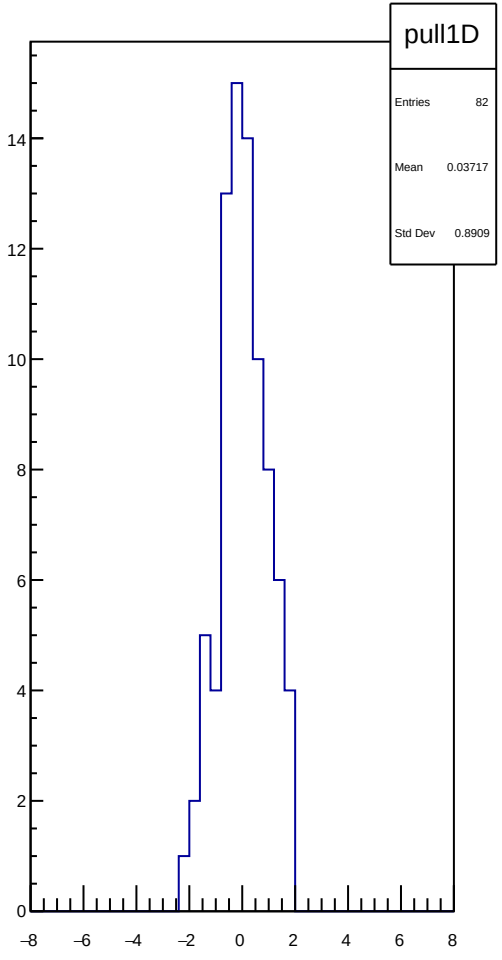

pull1D
Entries 82
Mean −0.04798
Std Dev 0.9337

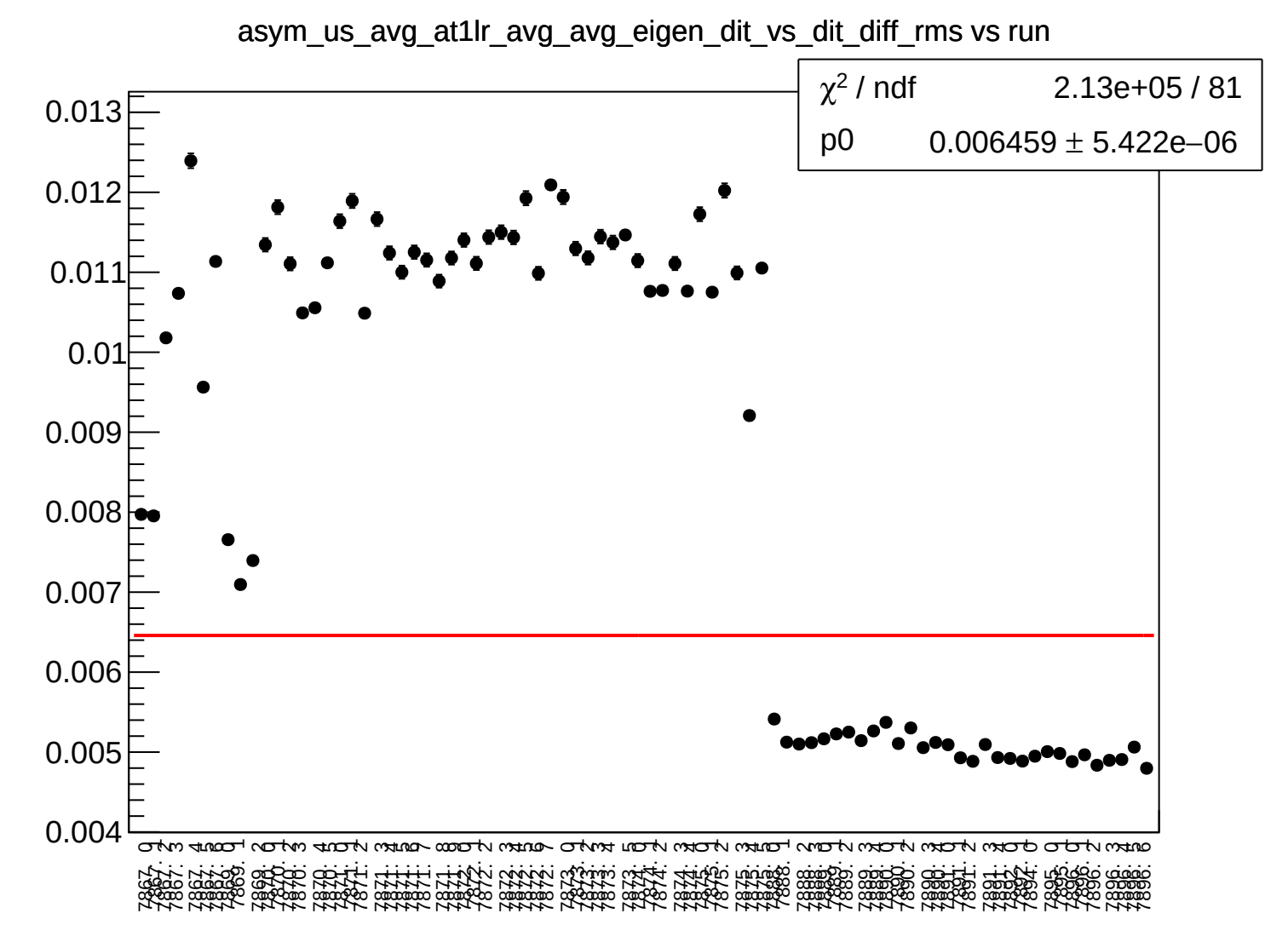

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.583e+05 / 81
p0 177.5 ± 0.1798
1600
1400
1200
1000
800
600
400
200

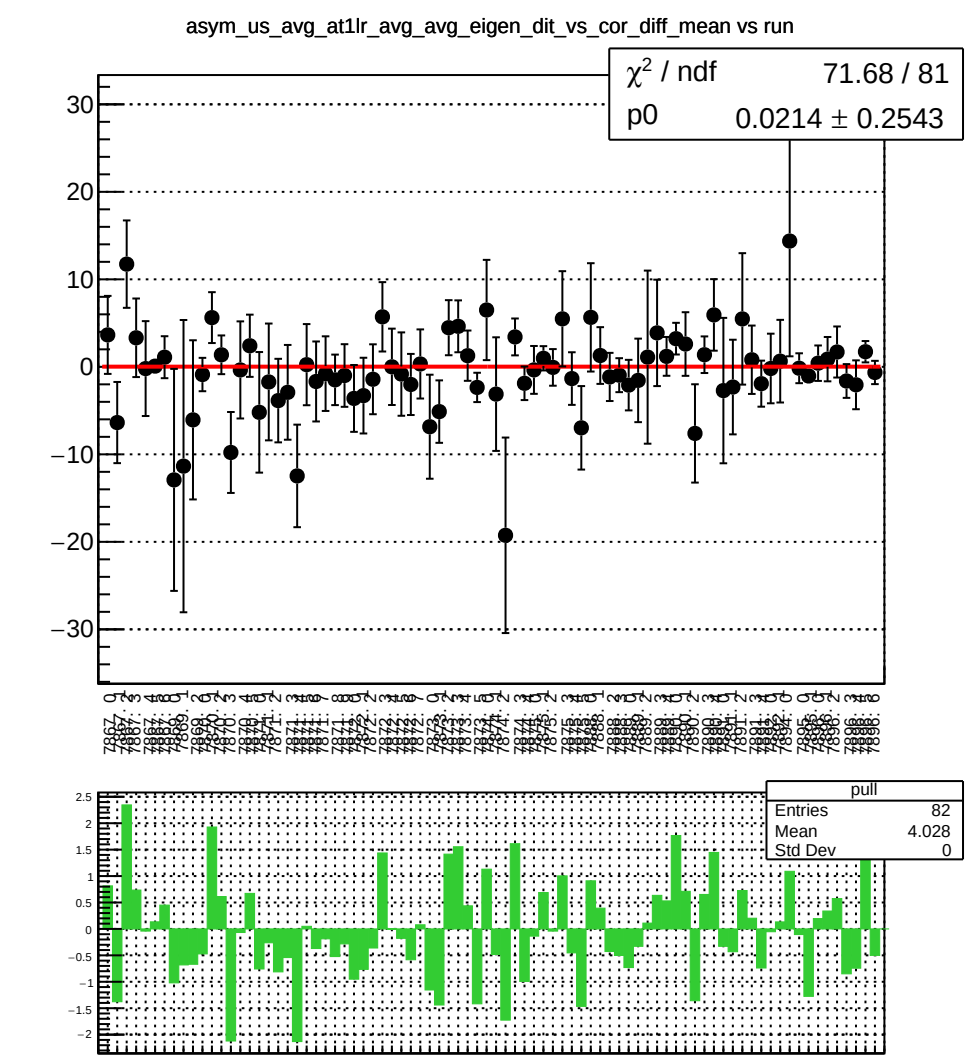

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.68 / 81
p0 0.02143 ± 0.2543
pull
Entries 82
Mean 4.037
Std Dev 0
pull1D
Entries 82
Mean −0.04798
Std Dev 0.9337

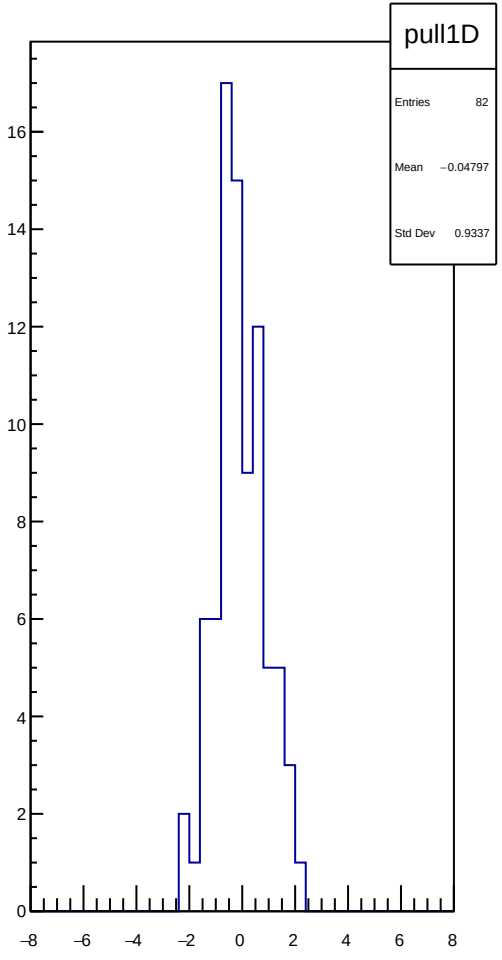

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.583e+05 / 81
p0 177.5 ± 0.1798
1600
1400
1200
1000
800
600
400
200

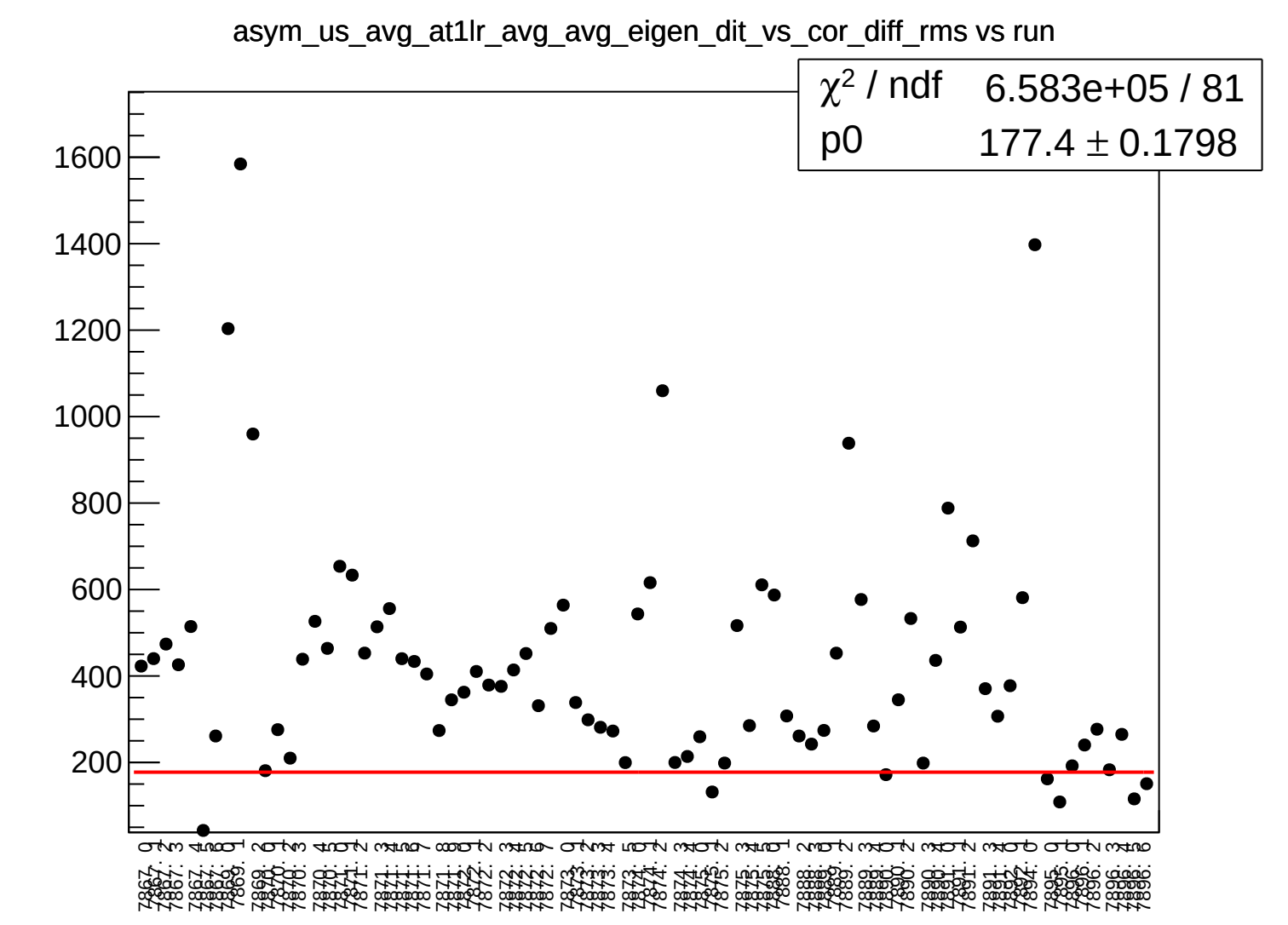

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.2 / 81
p0 1.092e−06 ± 7.667e−06
pull
Entries 82
Mean −20.38
Std Dev 0

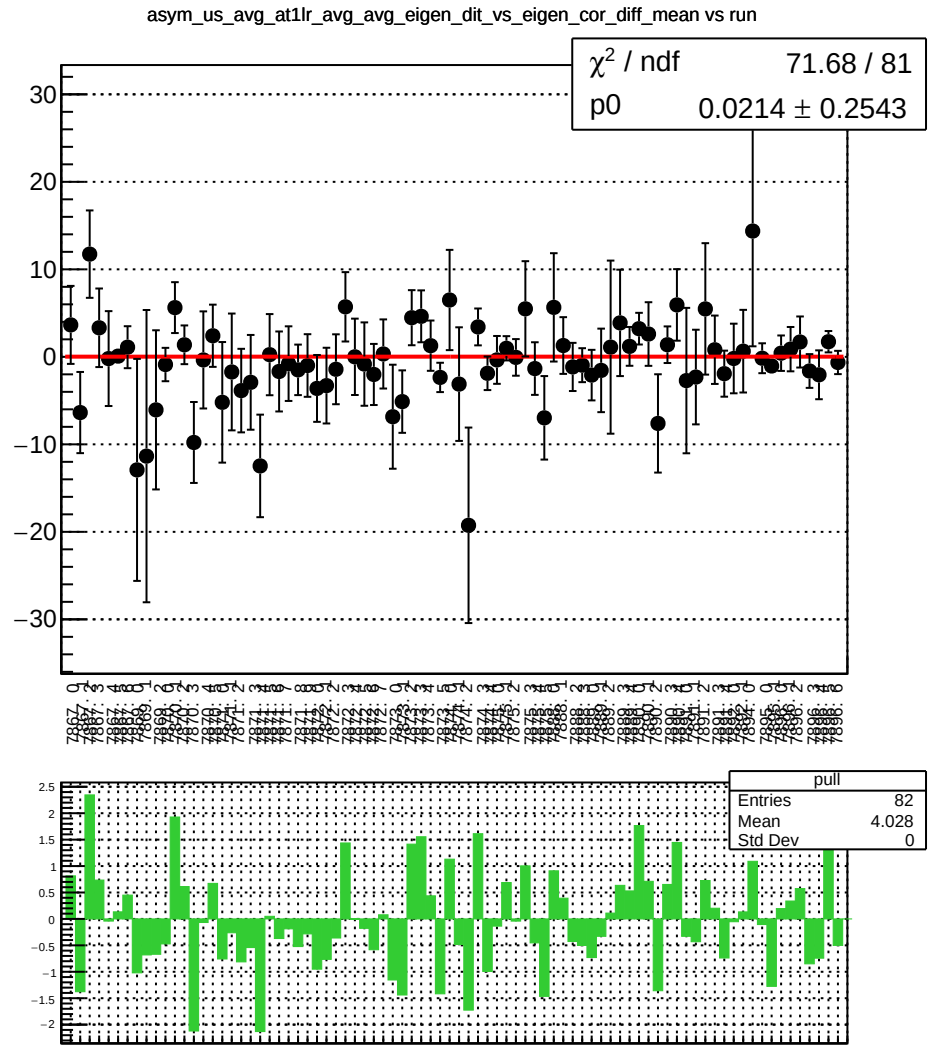

pull1D
Entries 82
Mean 0.03717
Std Dev 0.8909

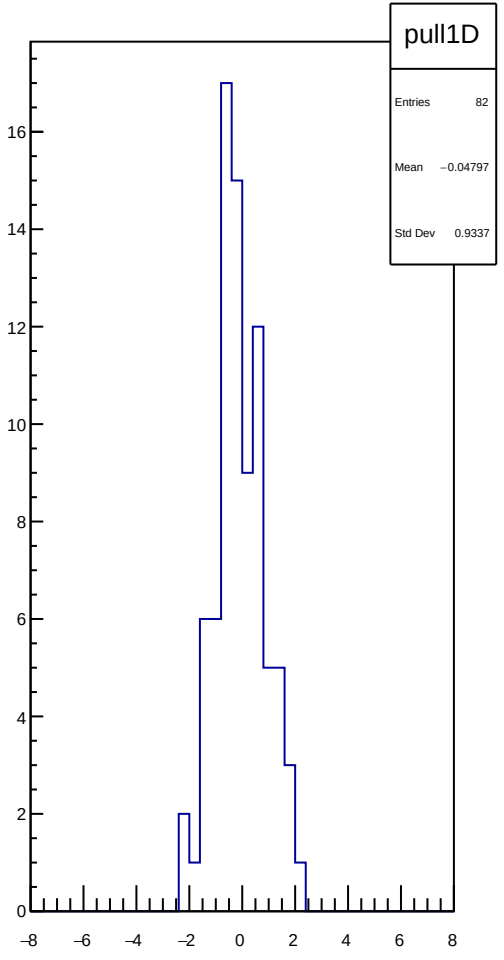

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.13e+05 / 81
p0 0.006459 ± 5.422e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

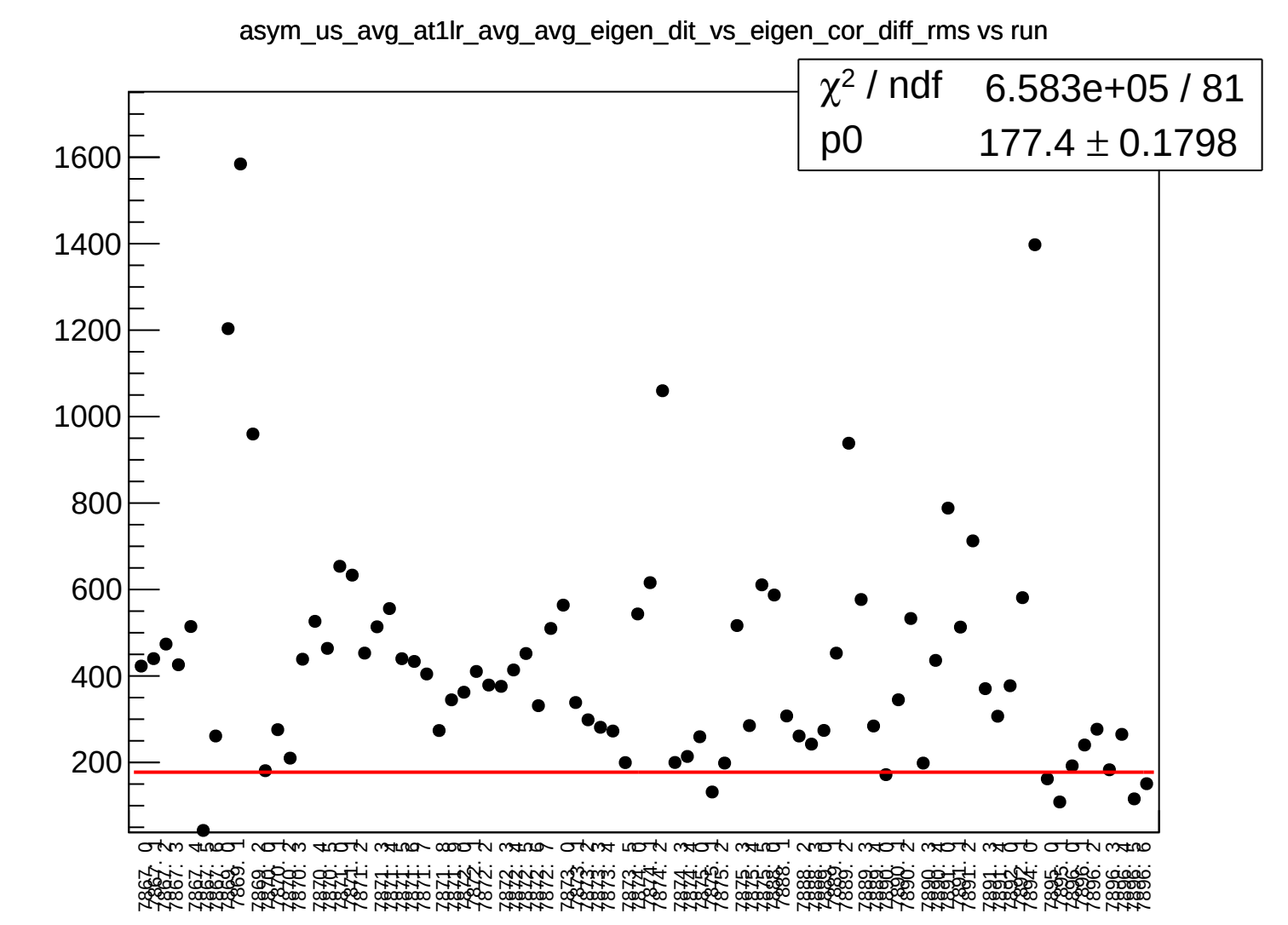

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.68 / 81
p0 0.0214 ± 0.2543
pull
Entries 82
Mean 4.028
Std Dev 0

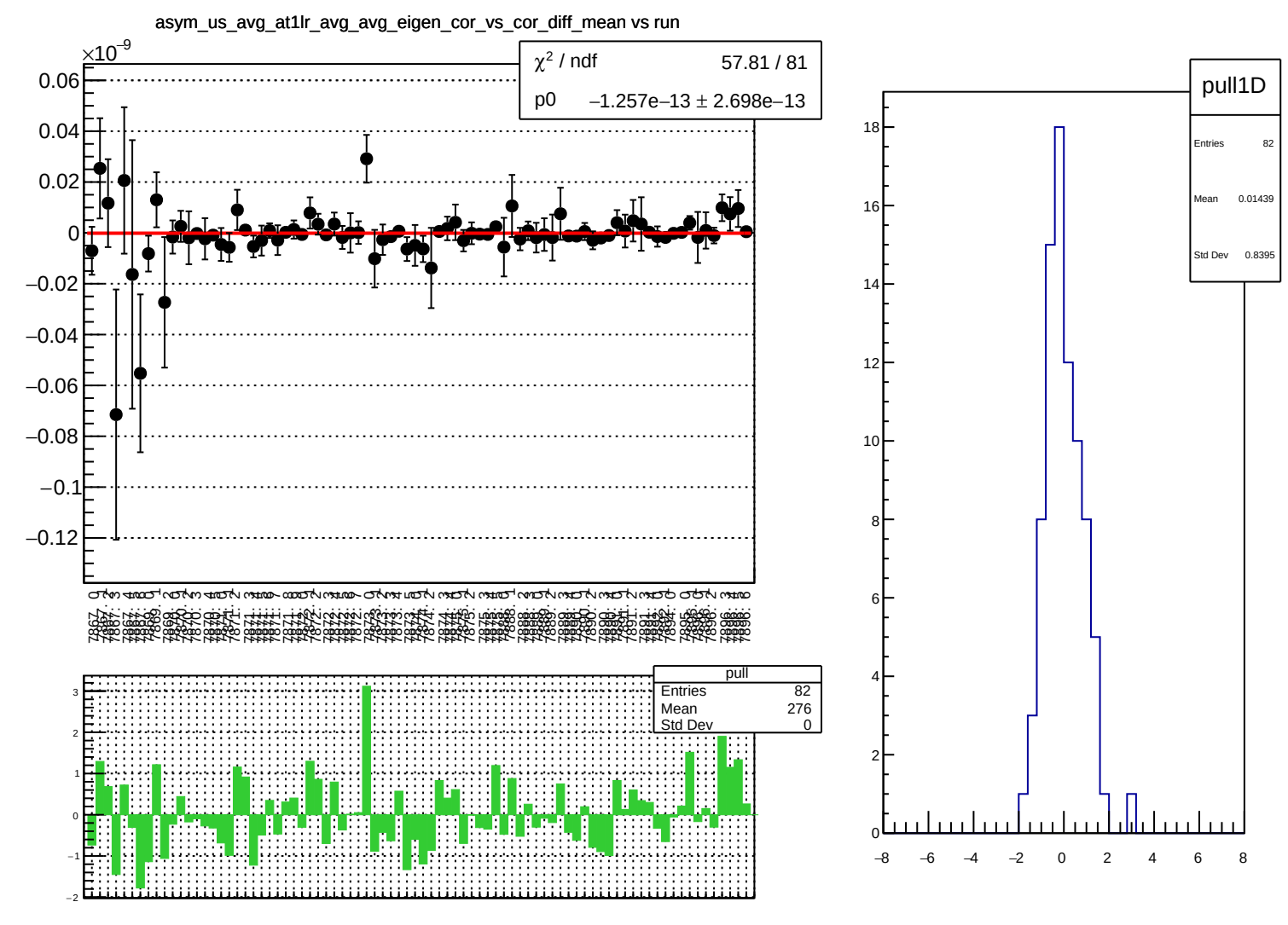

pull1D
Entries 82
Mean −0.04797
Std Dev 0.9337

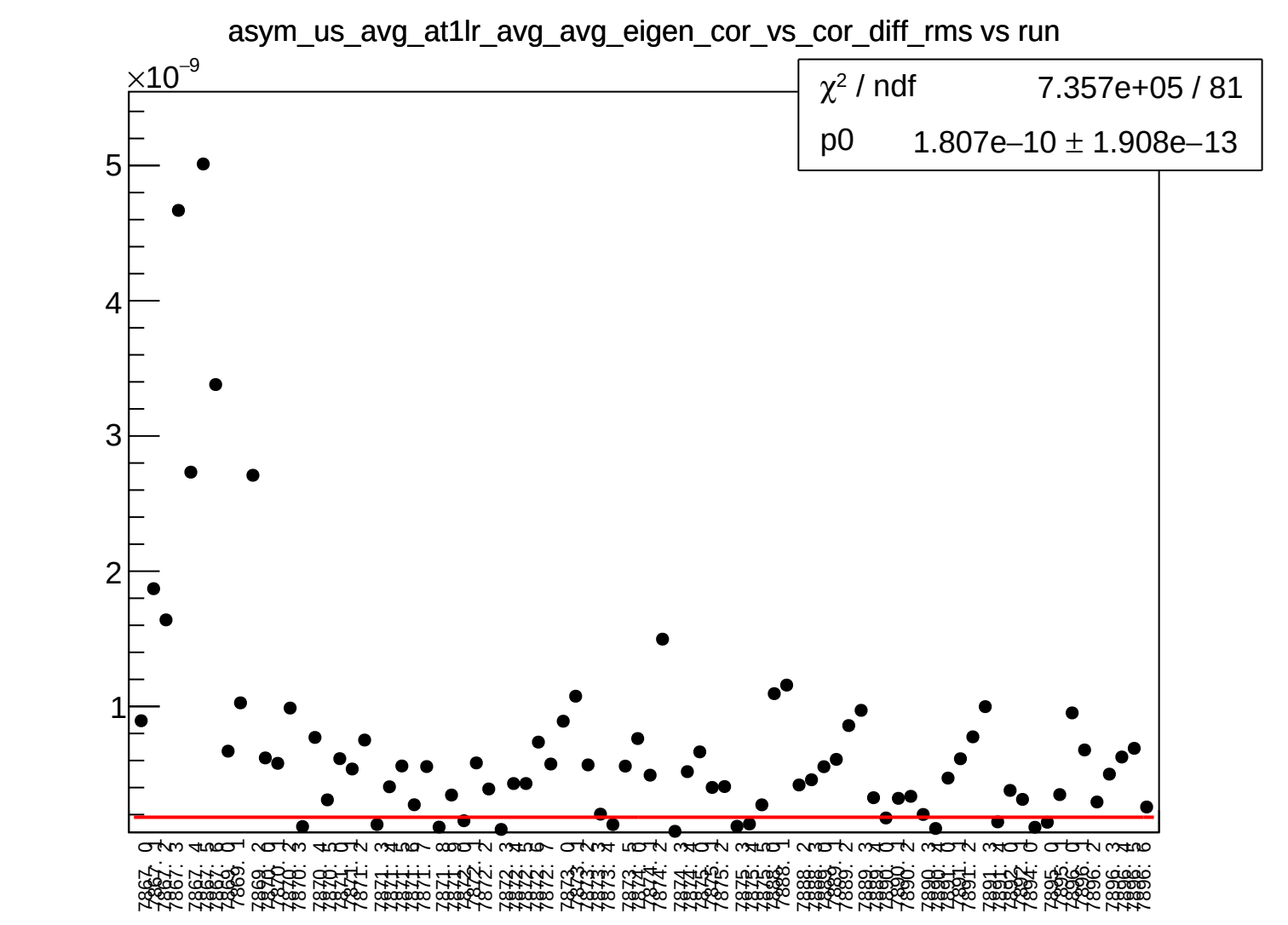

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.583e+05 / 81
p0 177.4 ± 0.1798
1600
1400
1200
1000
800
600
400
200

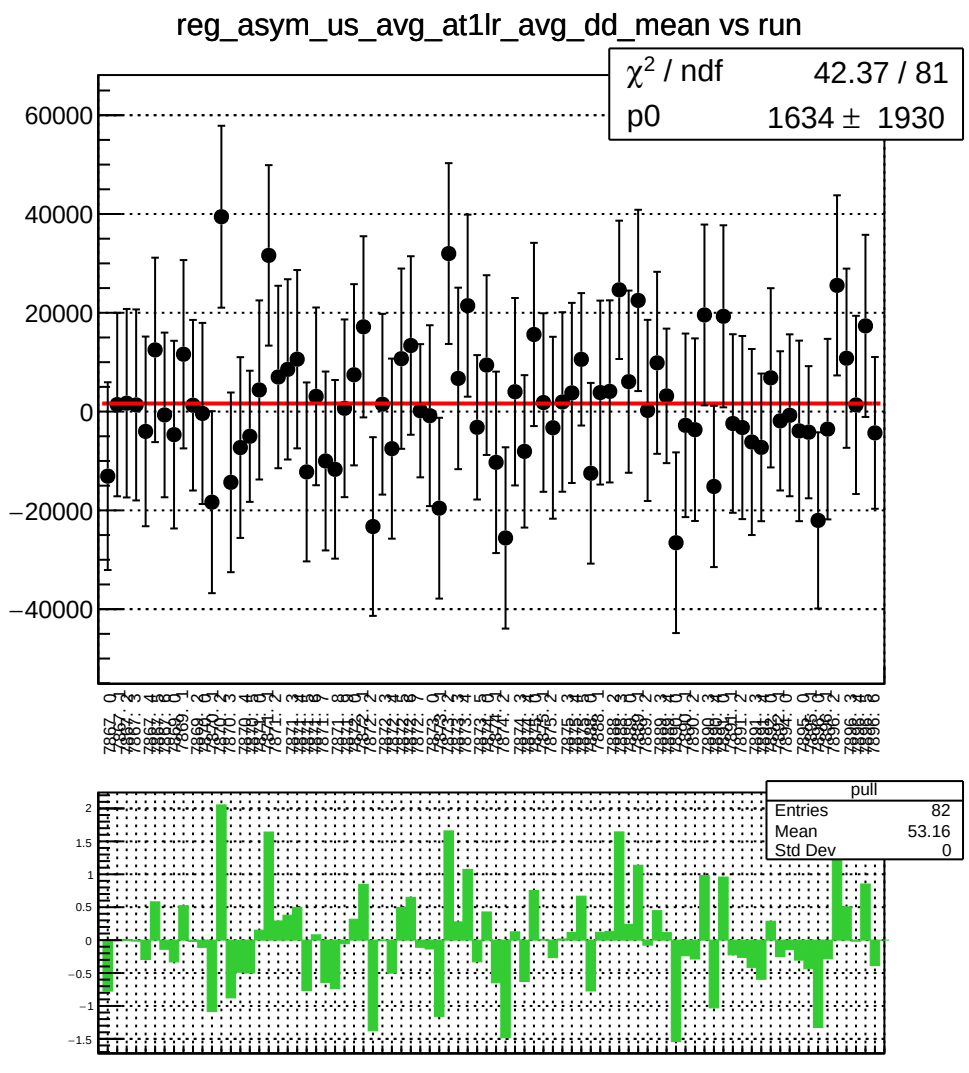

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.68 / 81
p0 0.0214 ± 0.2543
pull
Entries 82
Mean 4.028
Std Dev 0

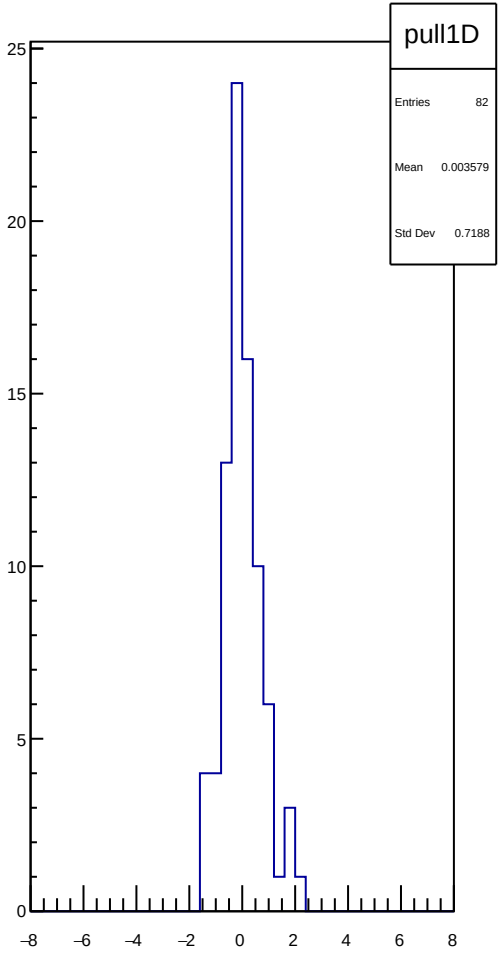

pull1D
Entries 82
Mean −0.04797
Std Dev 0.9337

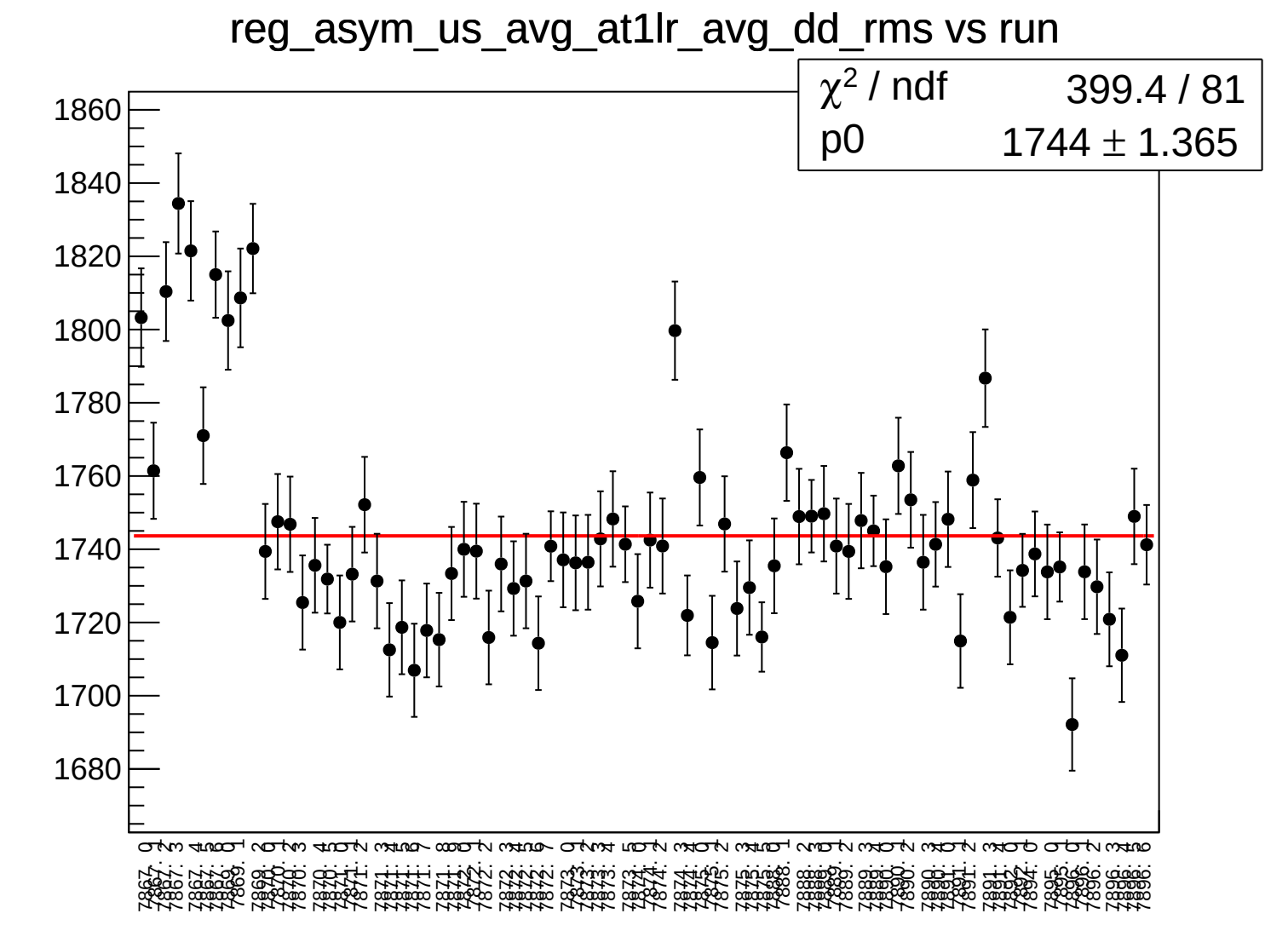

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.583e+05 / 81
p0 177.4 ± 0.1798
1600
1400
1200
1000
800
600
400
200

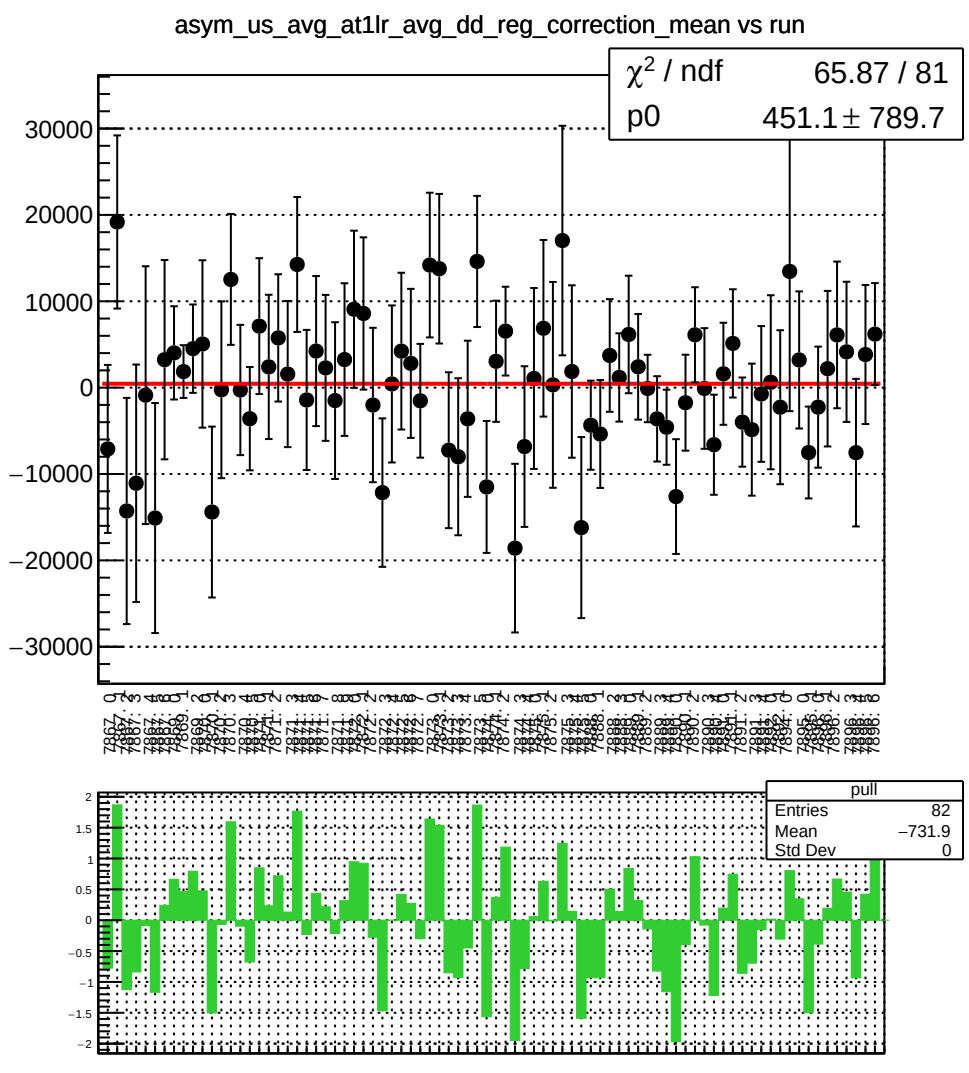

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 57.81 / 81
p0 −1.257e−13 ± 2.698e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 82
Mean 276
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01439
Std Dev 0.8395
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

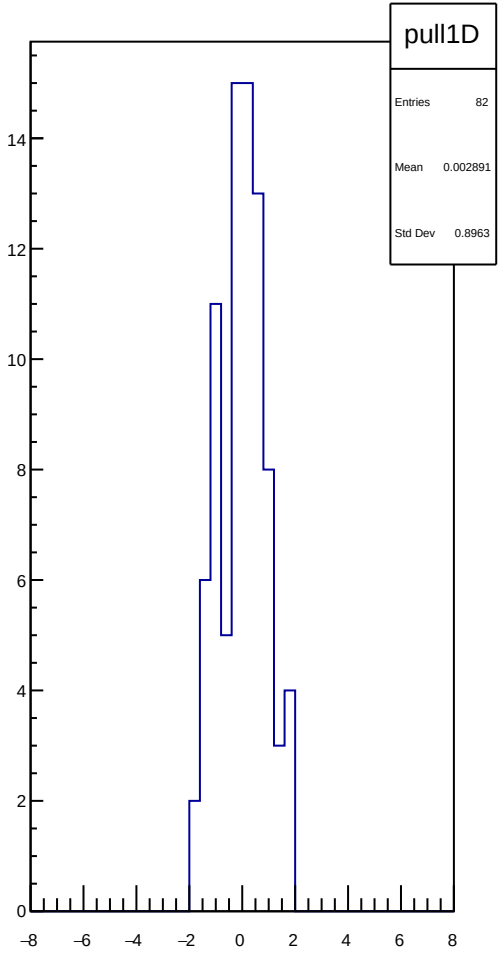

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.357e+05 / 81
p0 1.807e−10 ± 1.908e−13
5
4
3
2
1

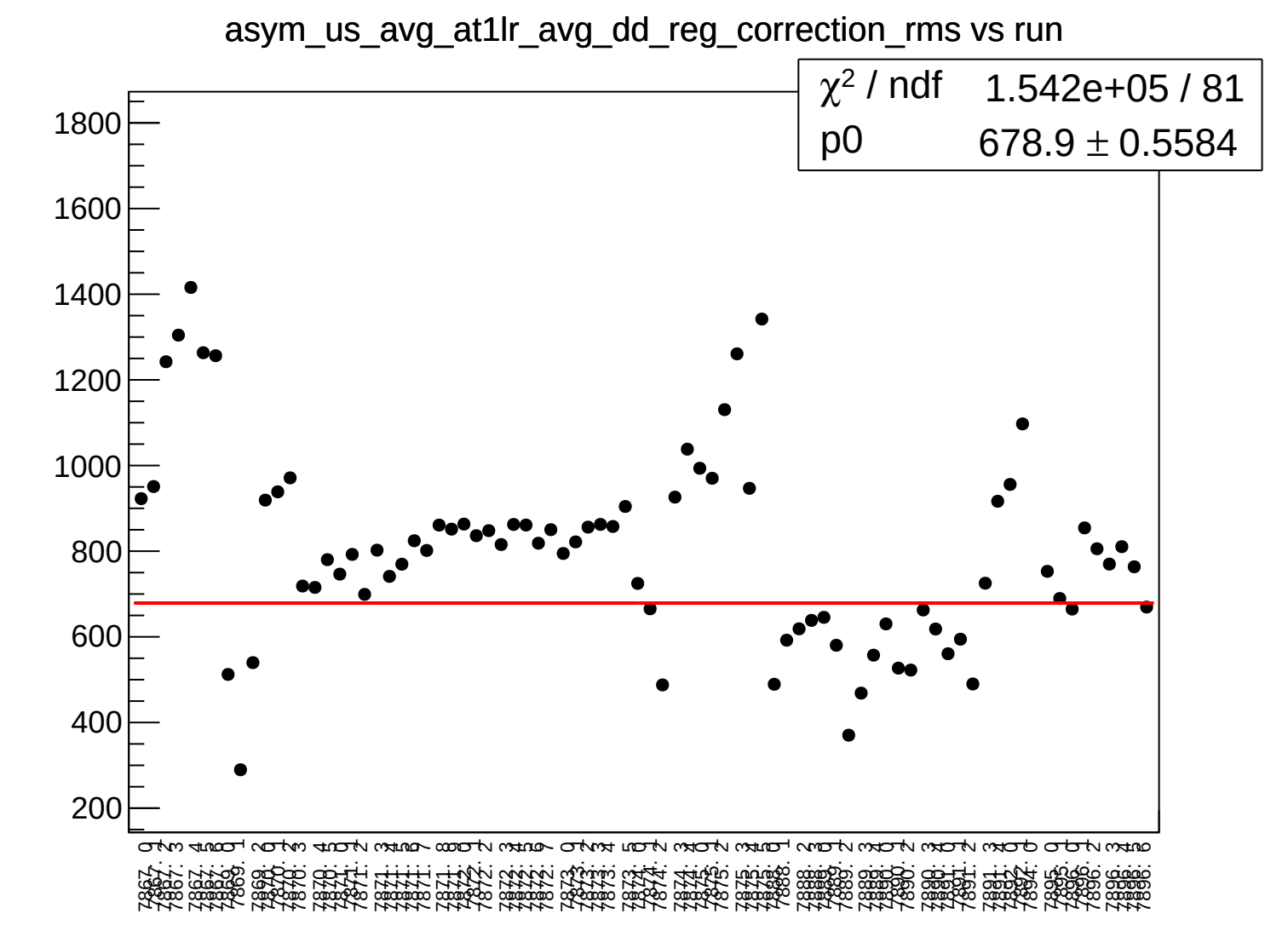

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 42.37 / 81
p0 1634 ± 1930
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 53.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

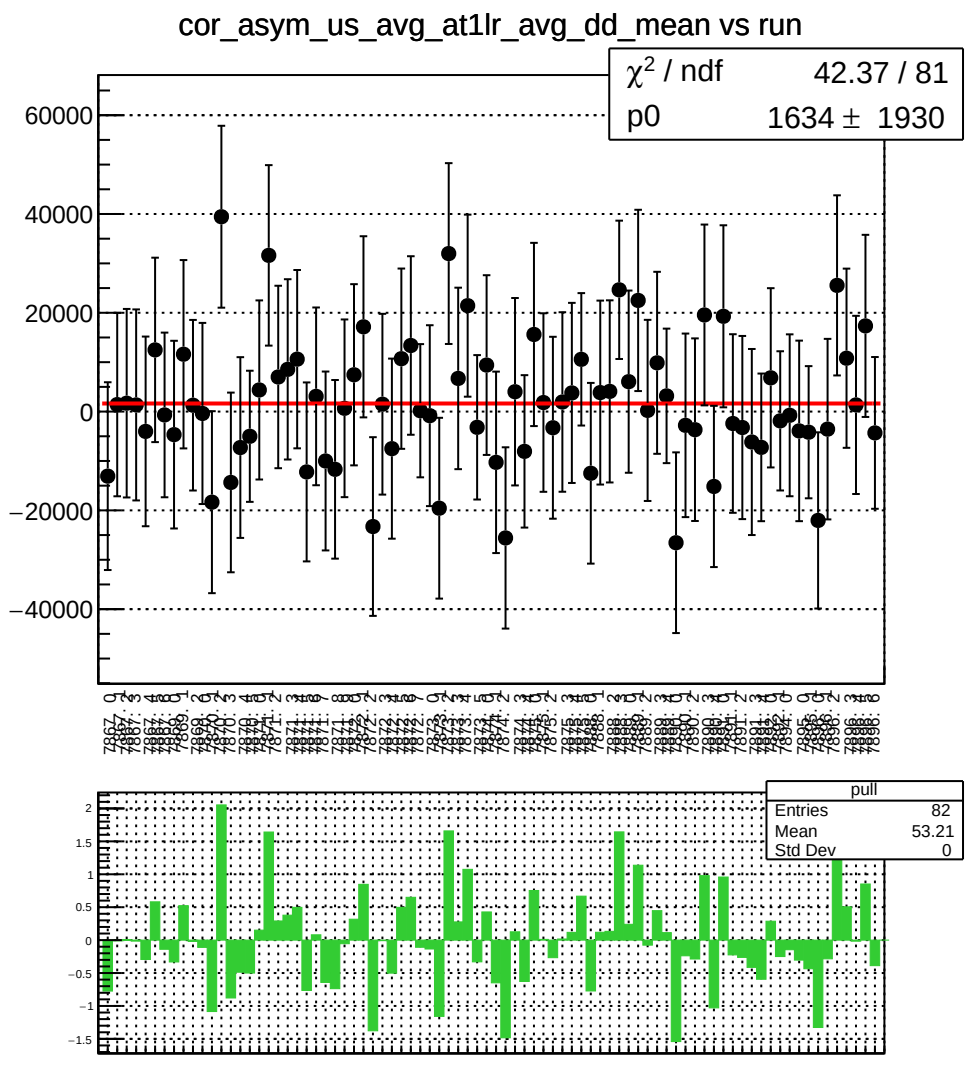

pull1D
Entries 82
Mean 0.003579
Std Dev 0.7188
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

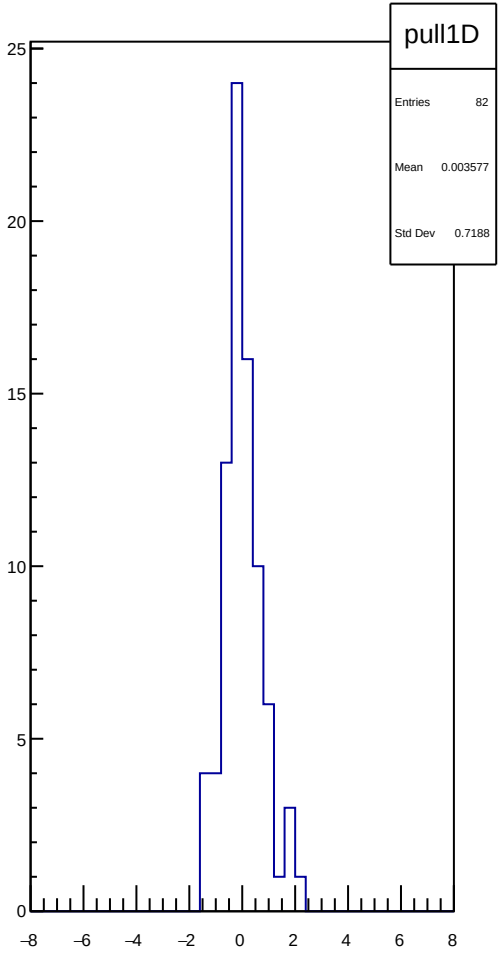

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 399.4 / 81
p0 1744 ± 1.365
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

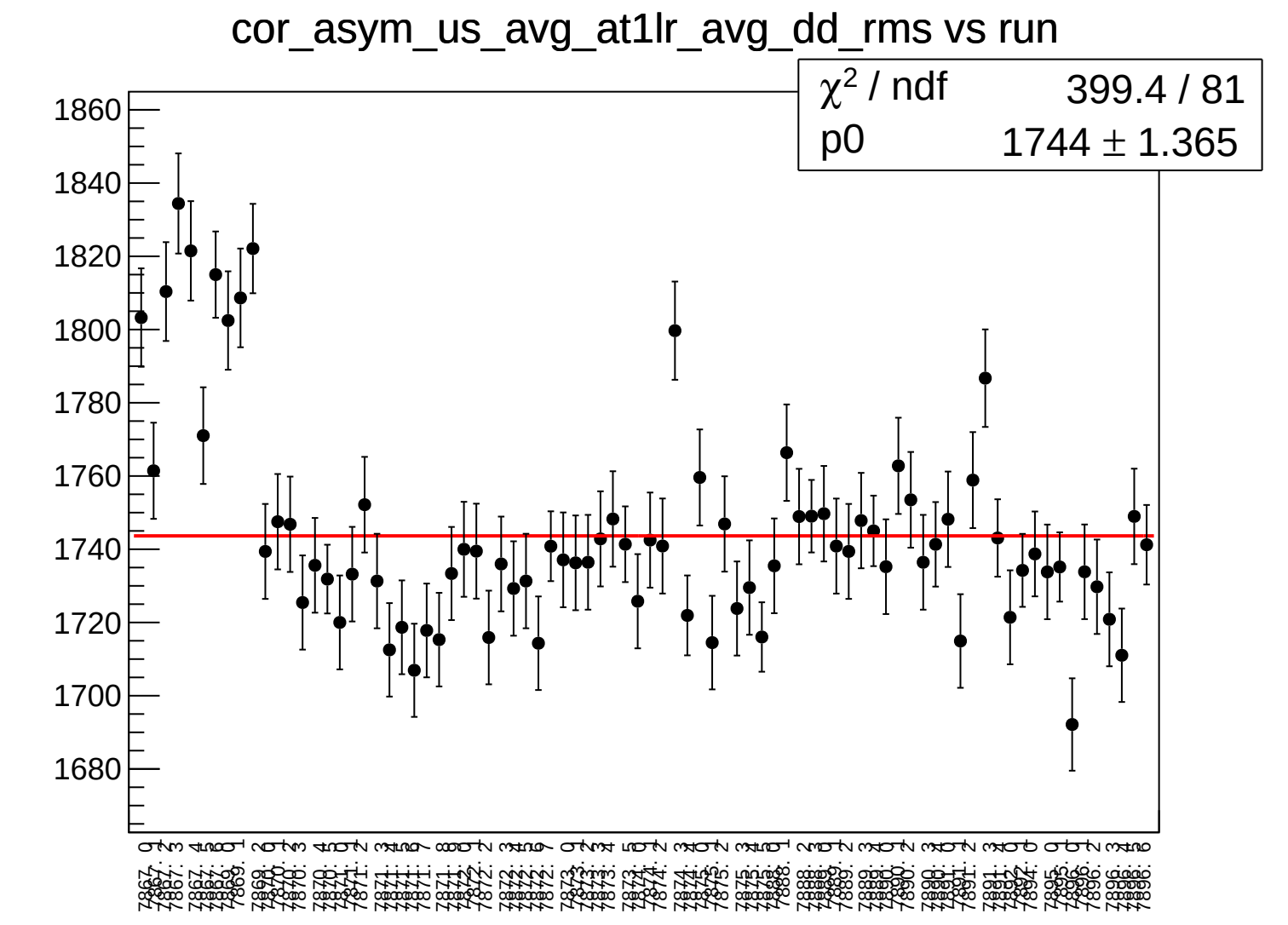

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 65.87 / 81
p0 451.1 ± 789.7
pull
Entries 82
Mean −731.9
Std Dev 0

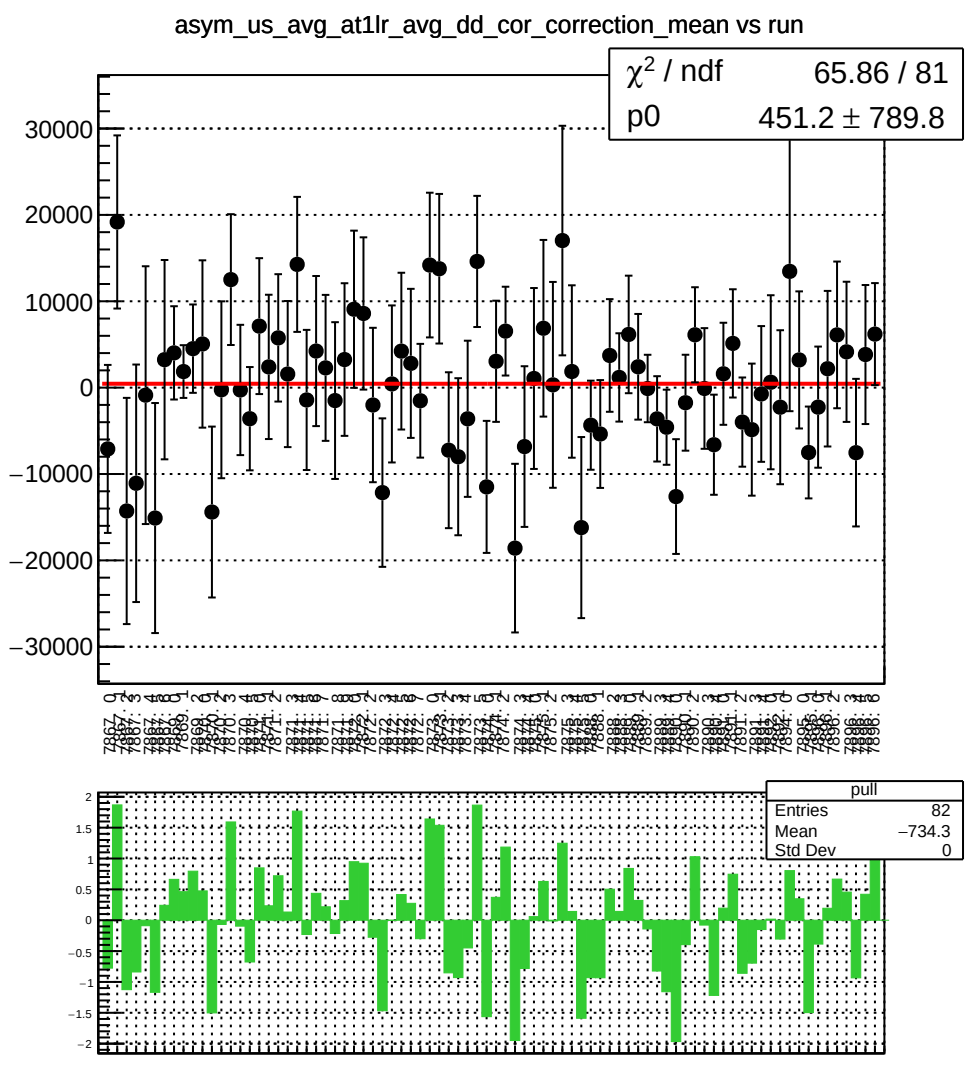

pull1D
Entries 82
Mean 0.002891
Std Dev 0.8963

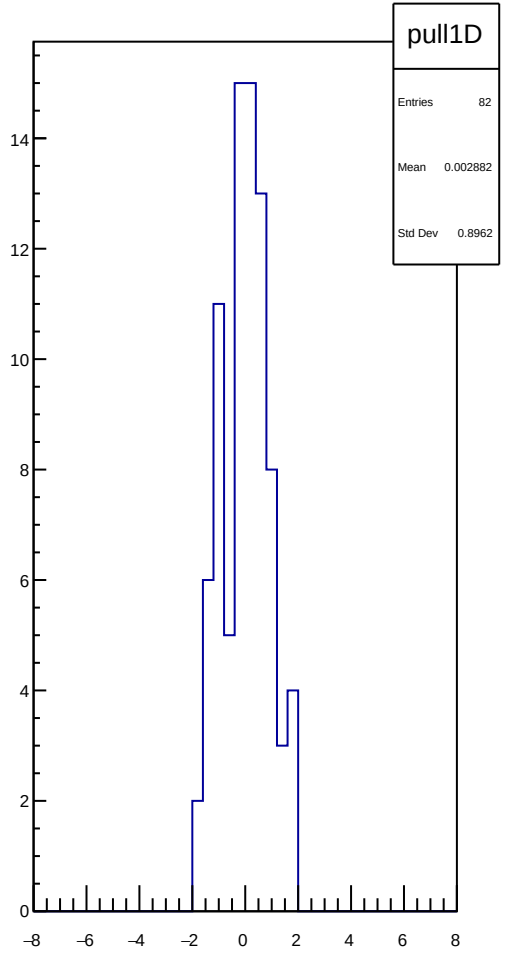

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.542e+05 / 81
p0 678.9 ± 0.5584
1800
1600
1400
1200
1000
800
600
400
200

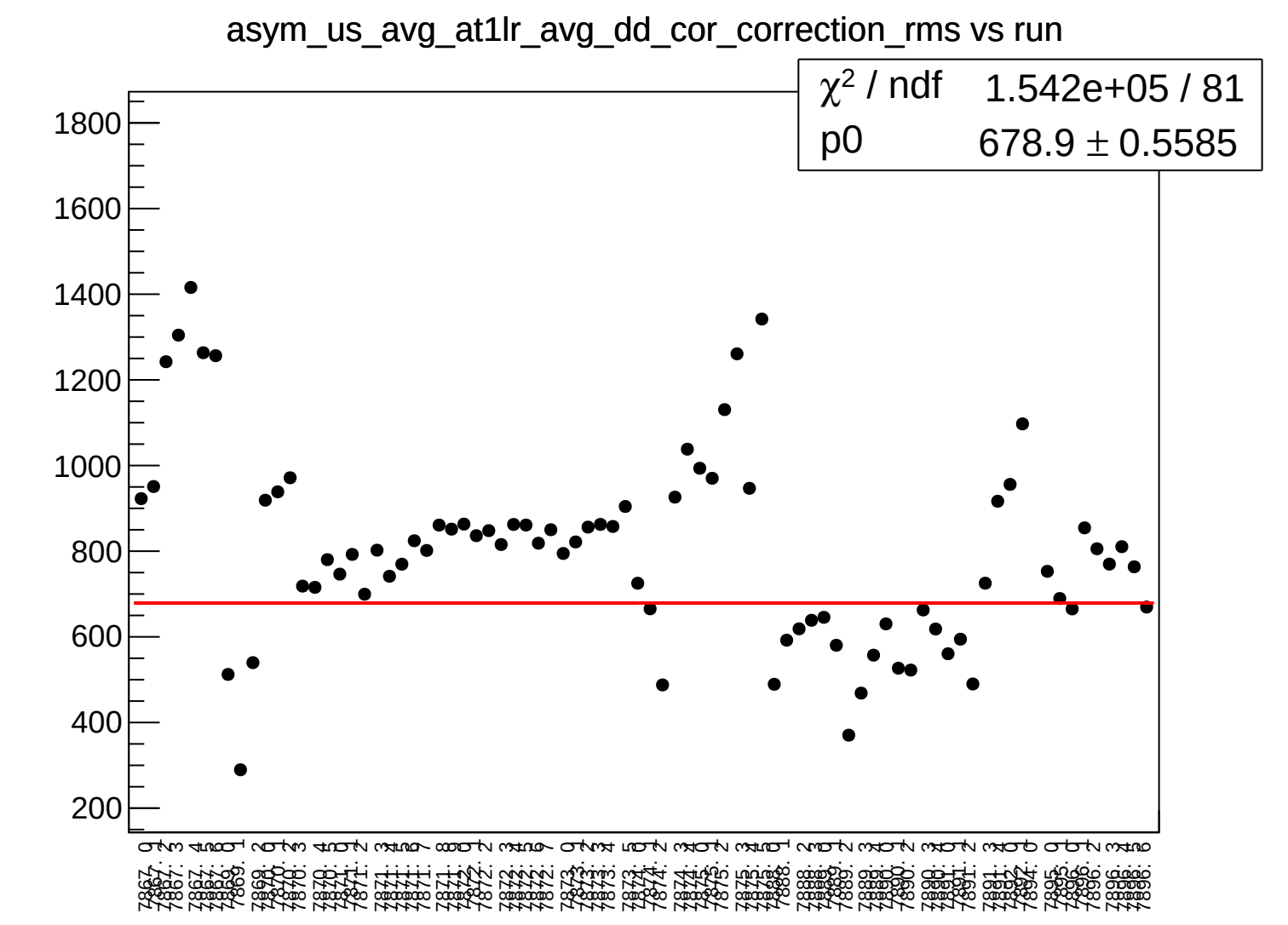

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 42.37 / 81
p0 1634 ± 1930
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 53.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

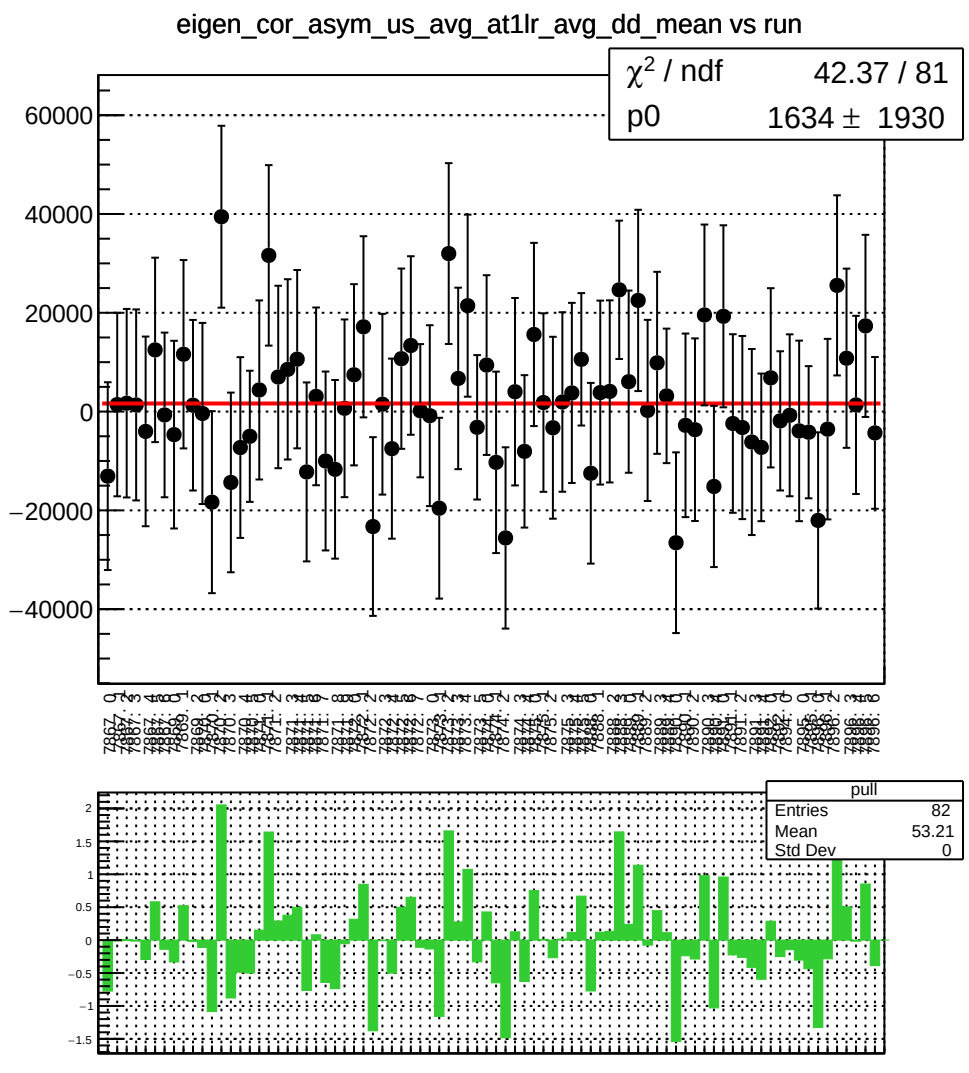

pull1D
Entries 82
Mean 0.003577
Std Dev 0.7188
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

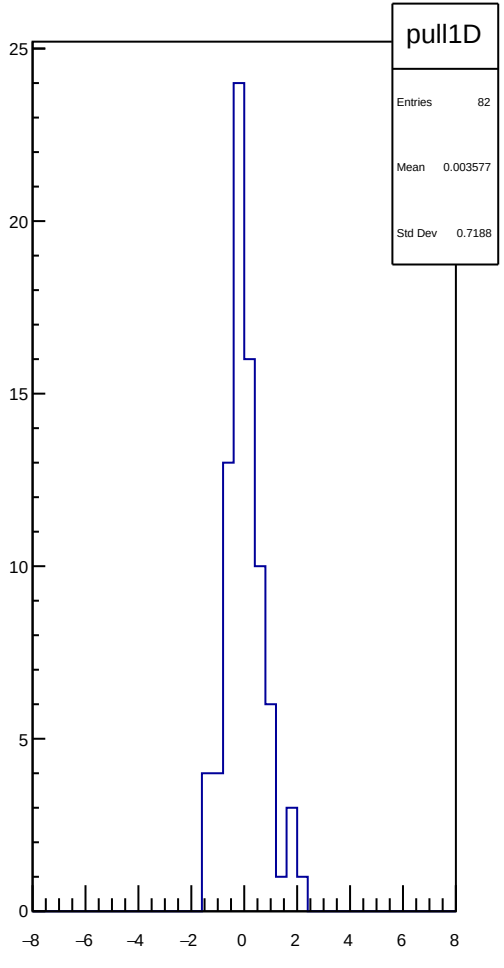

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 399.4 / 81
p0 1744 ± 1.365
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

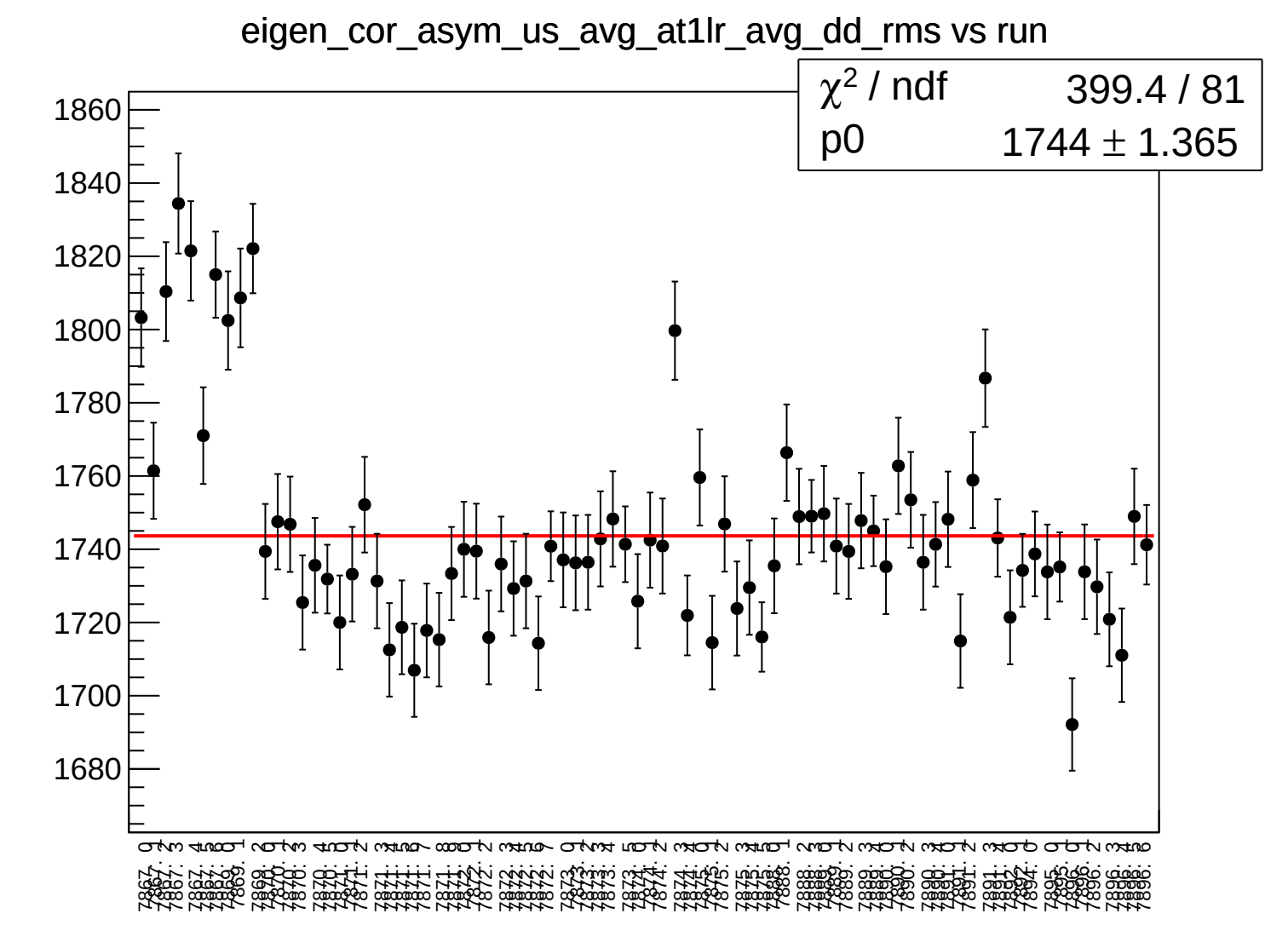

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 65.86 / 81
p0 451.2 ± 789.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −734.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

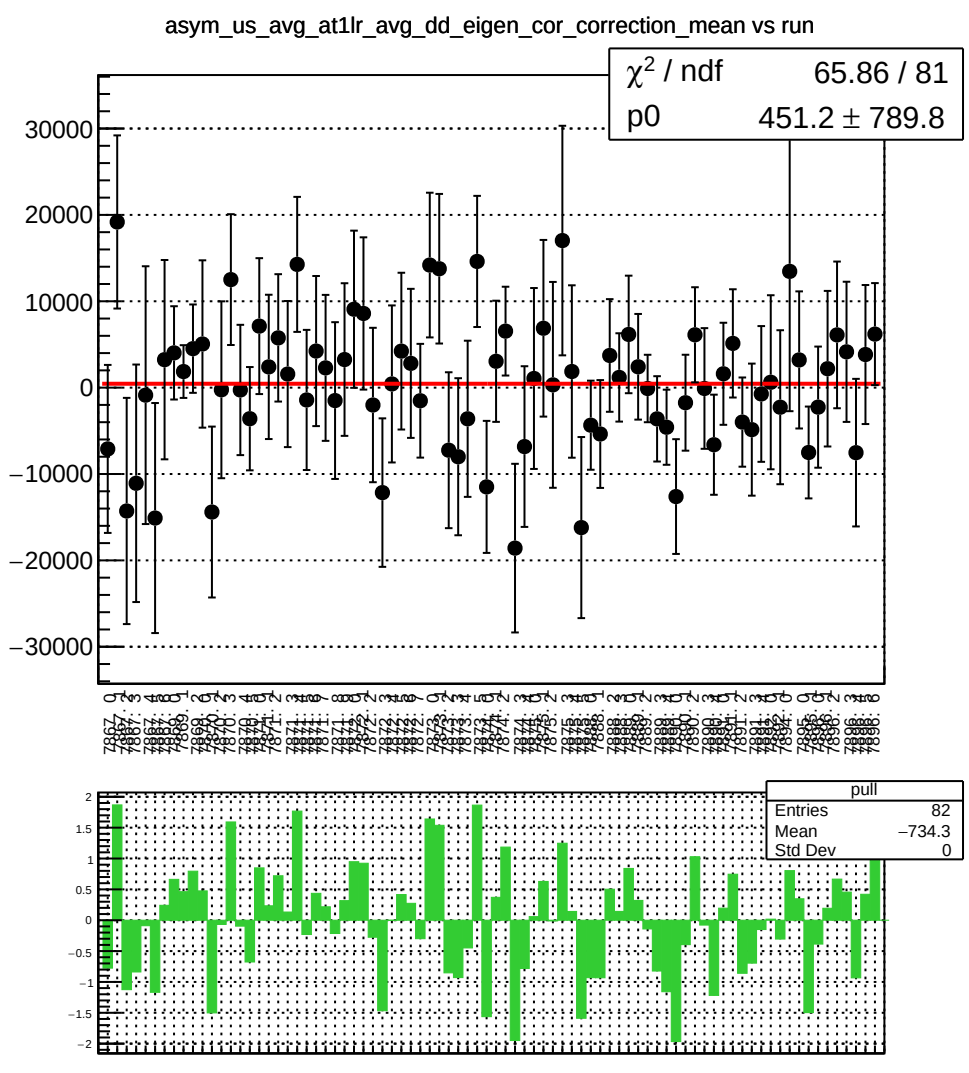

pull1D
Entries 82
Mean 0.002882
Std Dev 0.8962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

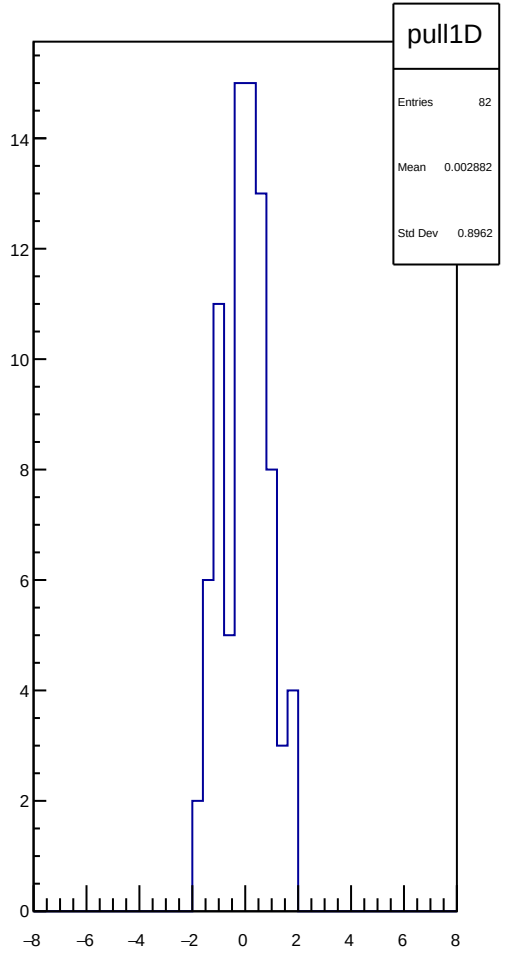

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.542e+05 / 81
p0 678.9 ± 0.5585
1800
1600
1400
1200
1000
800
600
400
200

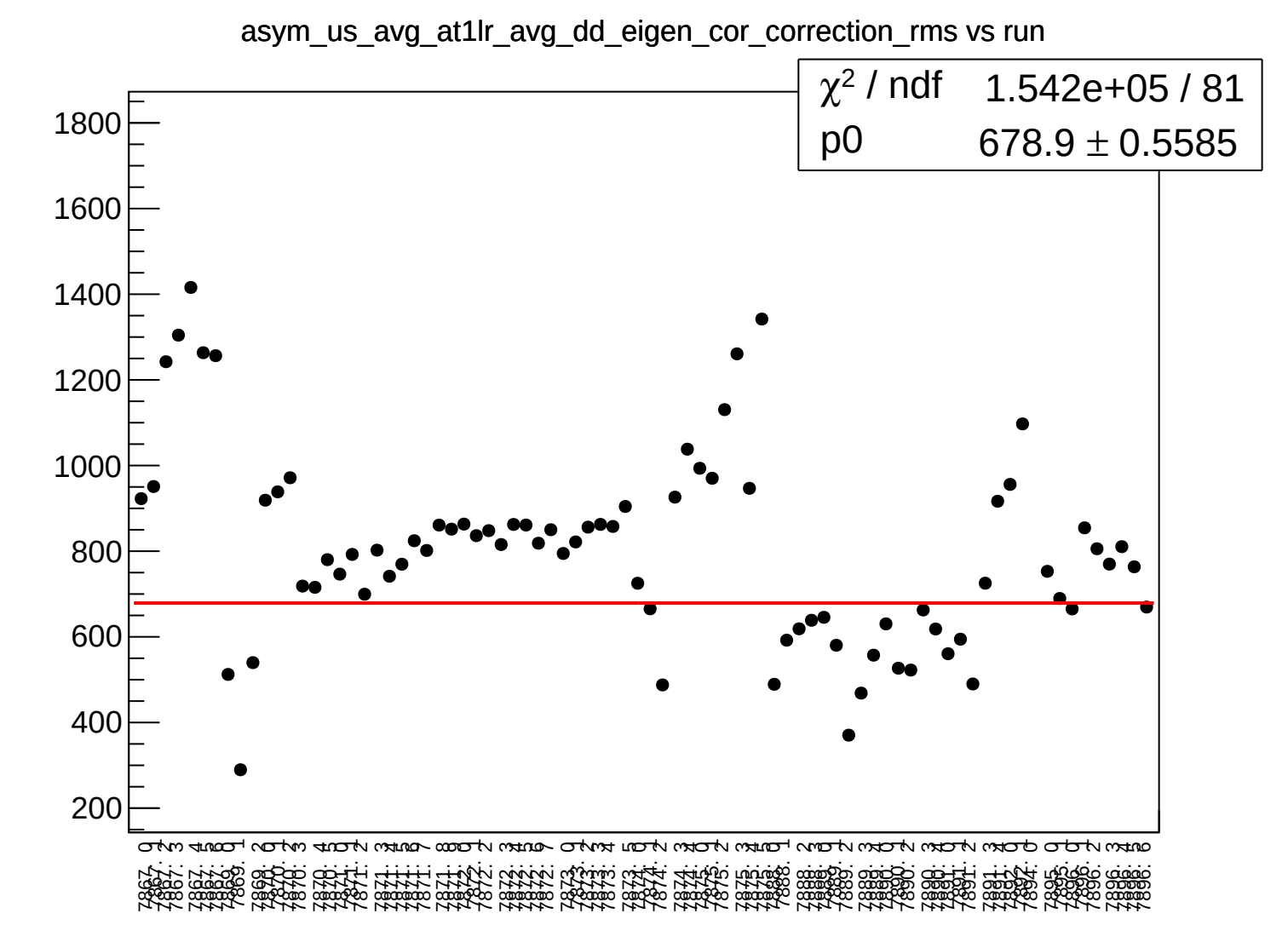

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 42.37 / 81
p0 1634 ± 1930
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 53.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

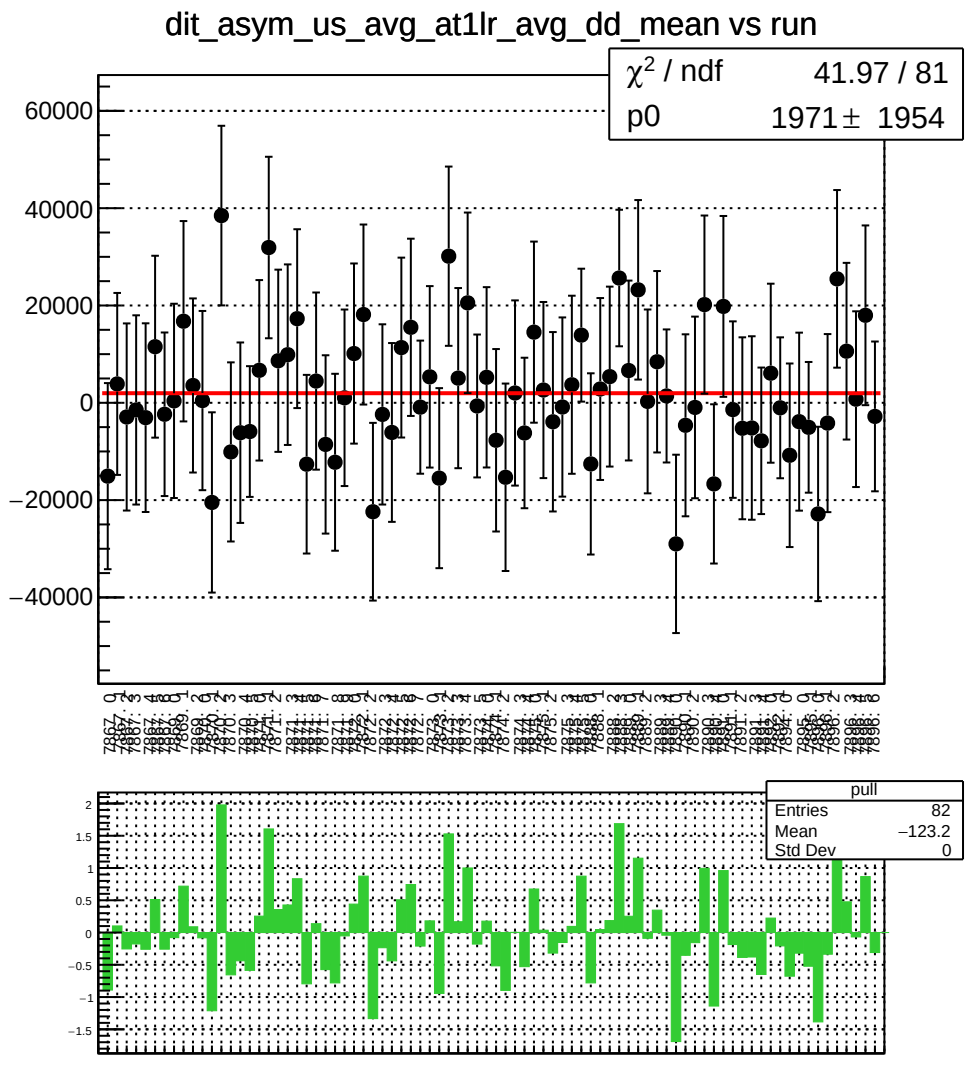

pull1D
Entries 82
Mean 0.003577
Std Dev 0.7188
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

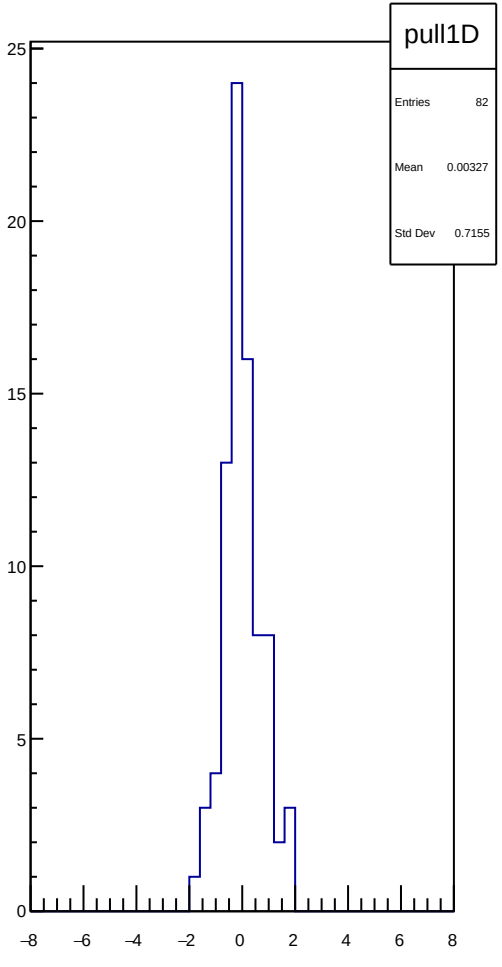

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 399.4 / 81
p0 1744 ± 1.365
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

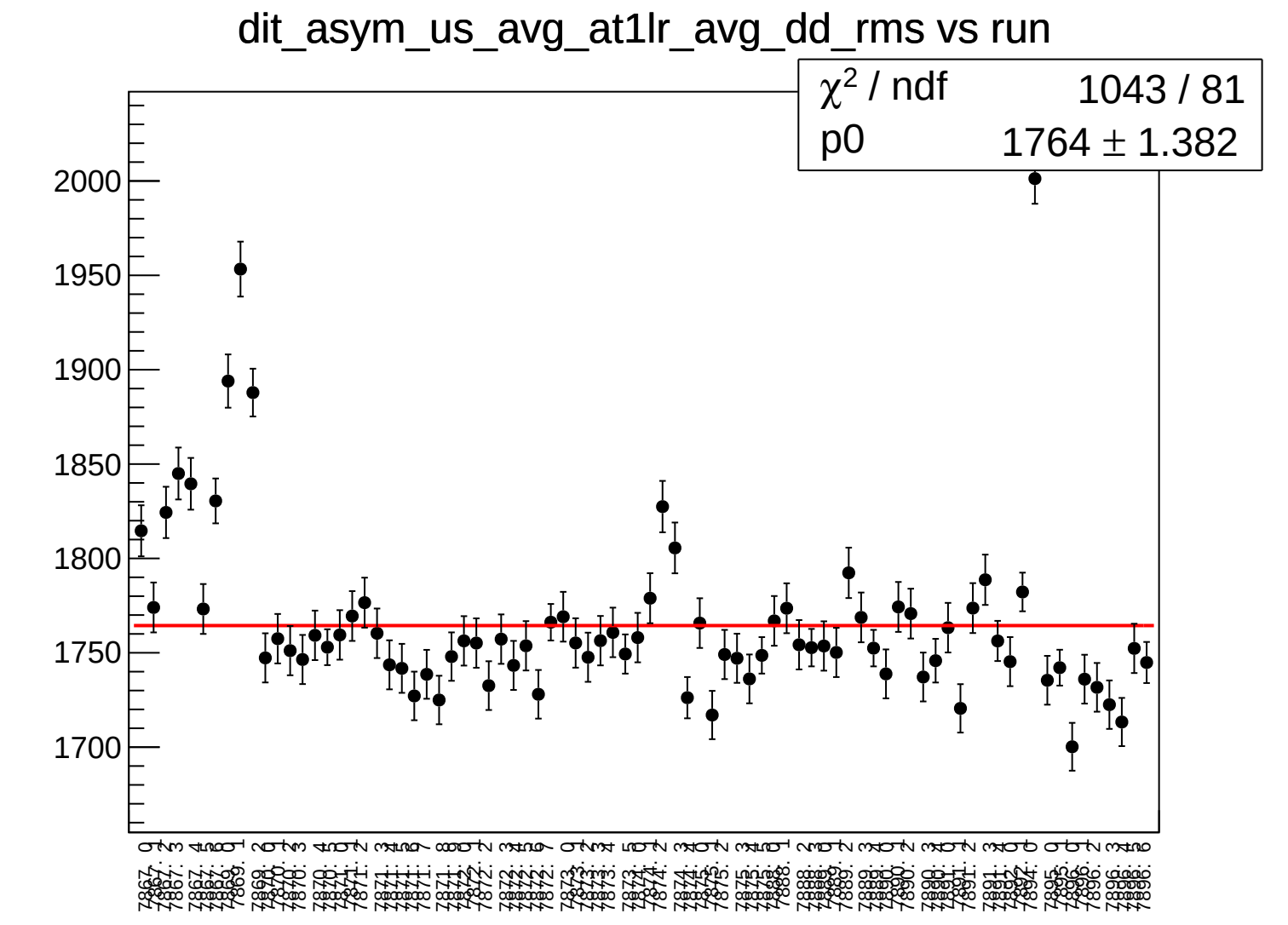

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.86 / 81
p0 451.2 ± 789.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −734.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

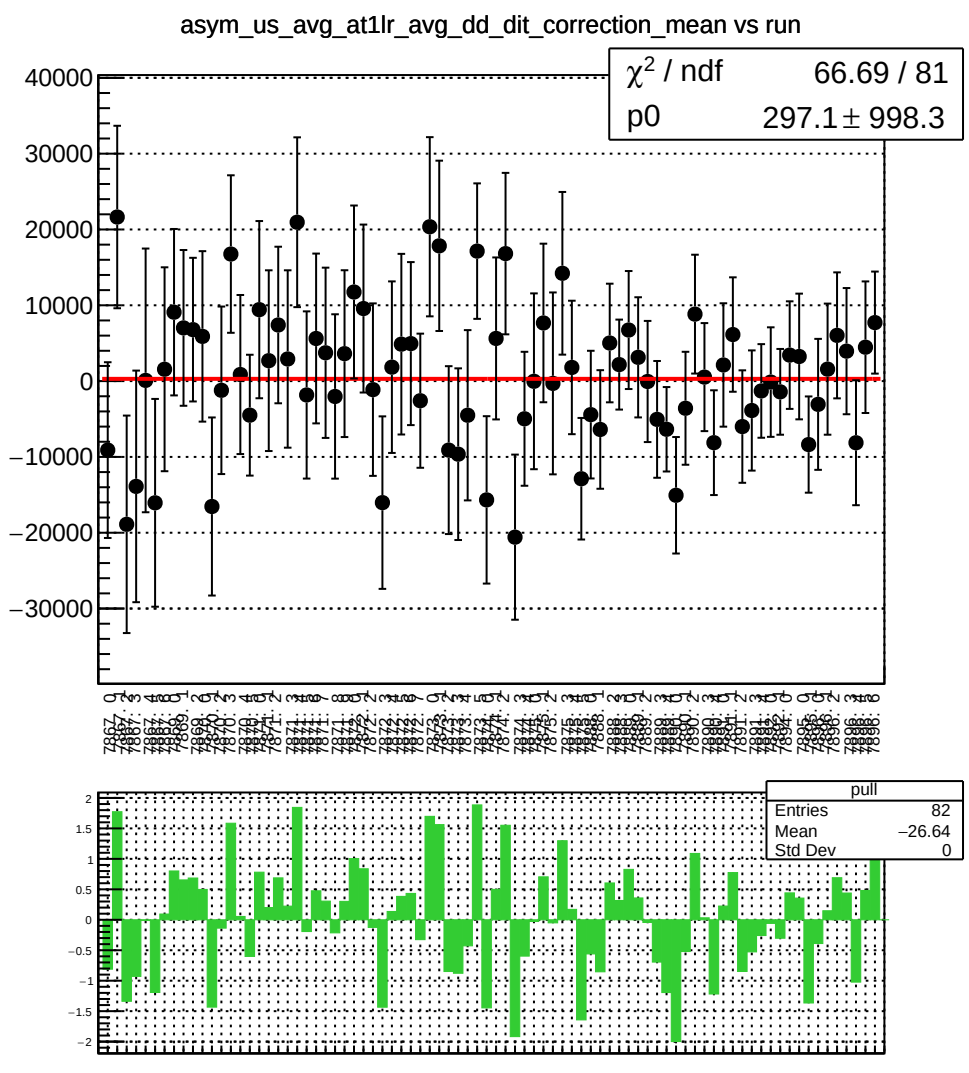

pull1D
Entries 82
Mean 0.002882
Std Dev 0.8962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

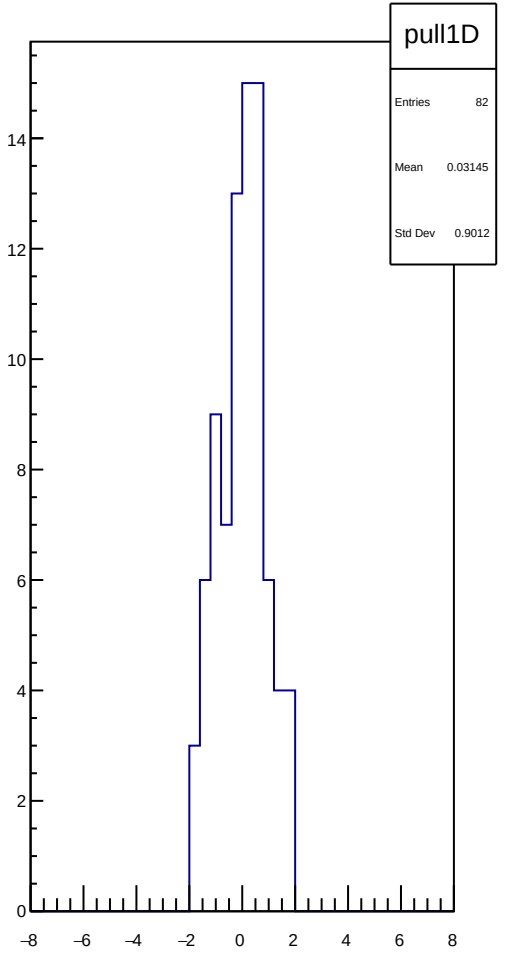

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.542e+05 / 81
p0 678.9 ± 0.5585
1800
1600
1400
1200
1000
800
600
400
200

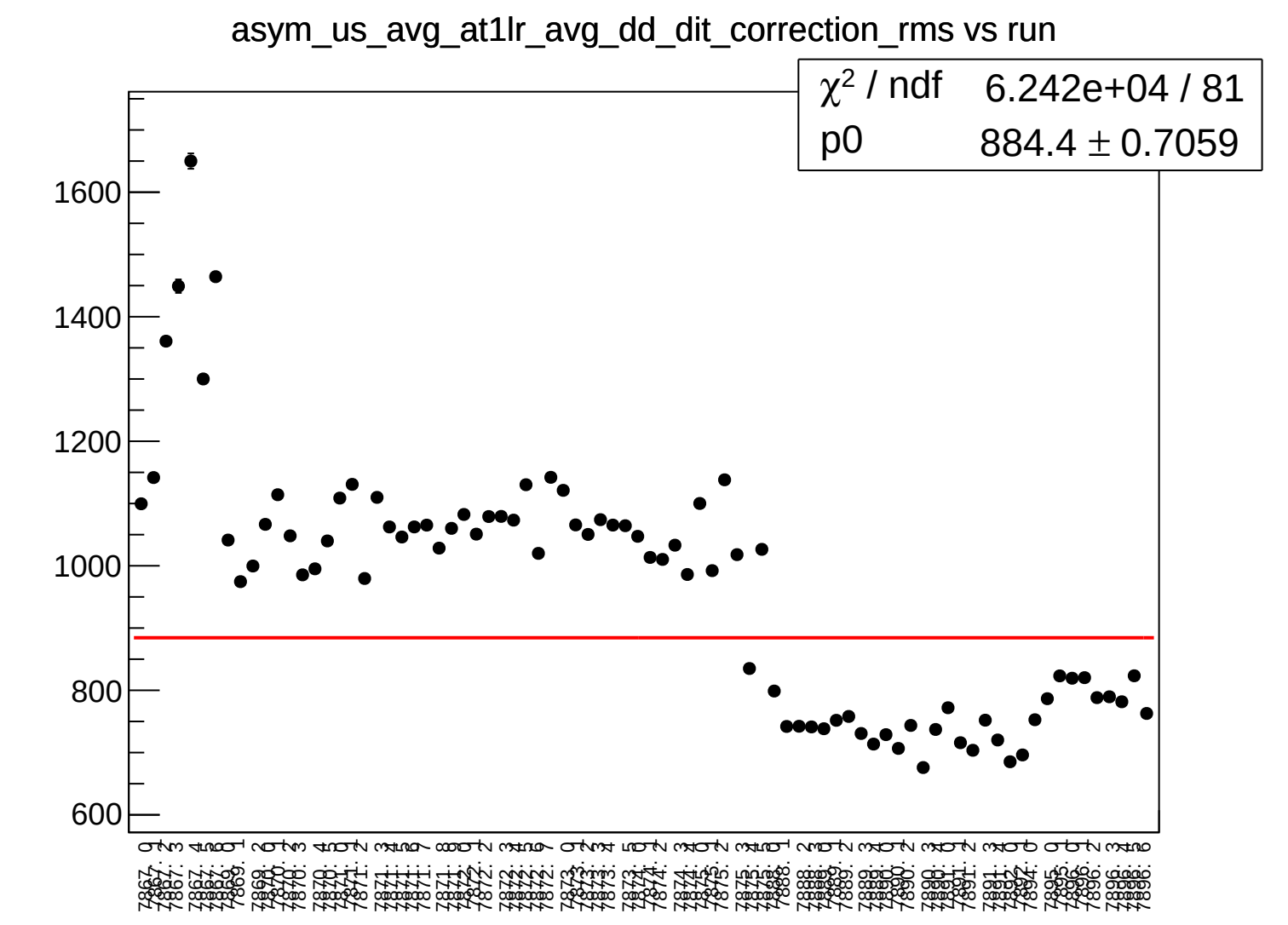

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 41.97 / 81
p0 1971 ± 1954
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −123.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

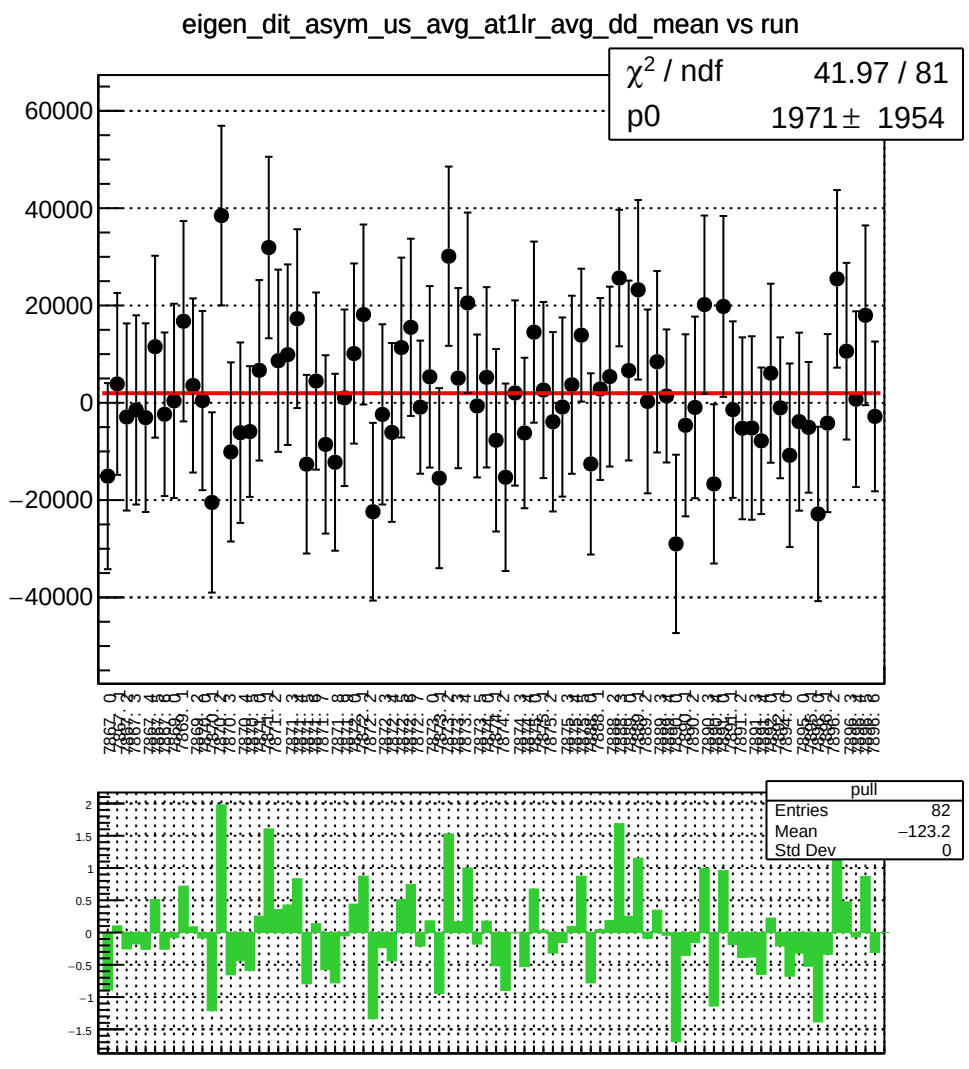

pull1D
Entries 82
Mean 0.00327
Std Dev 0.7155
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

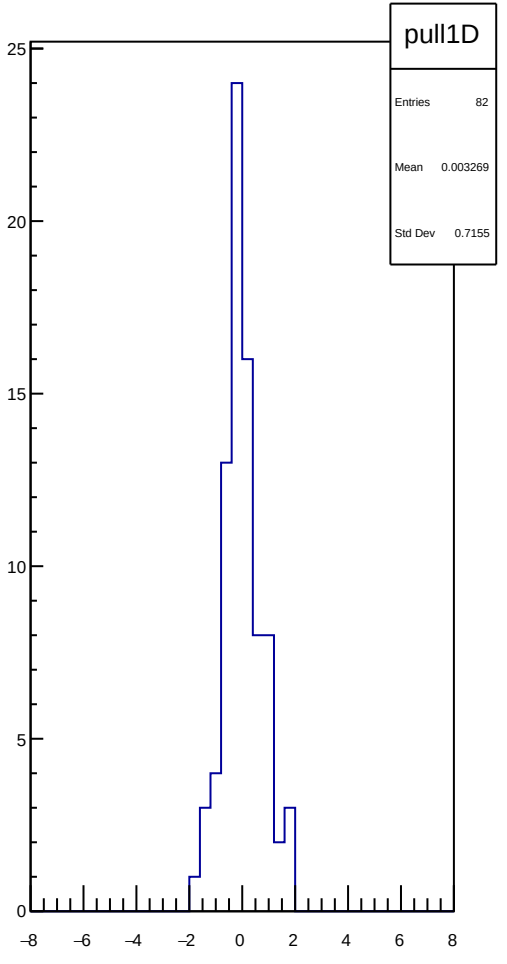

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 1043 / 81
p0 1764 ± 1.382
2000
1950
1900
1850
1800
1750
1700

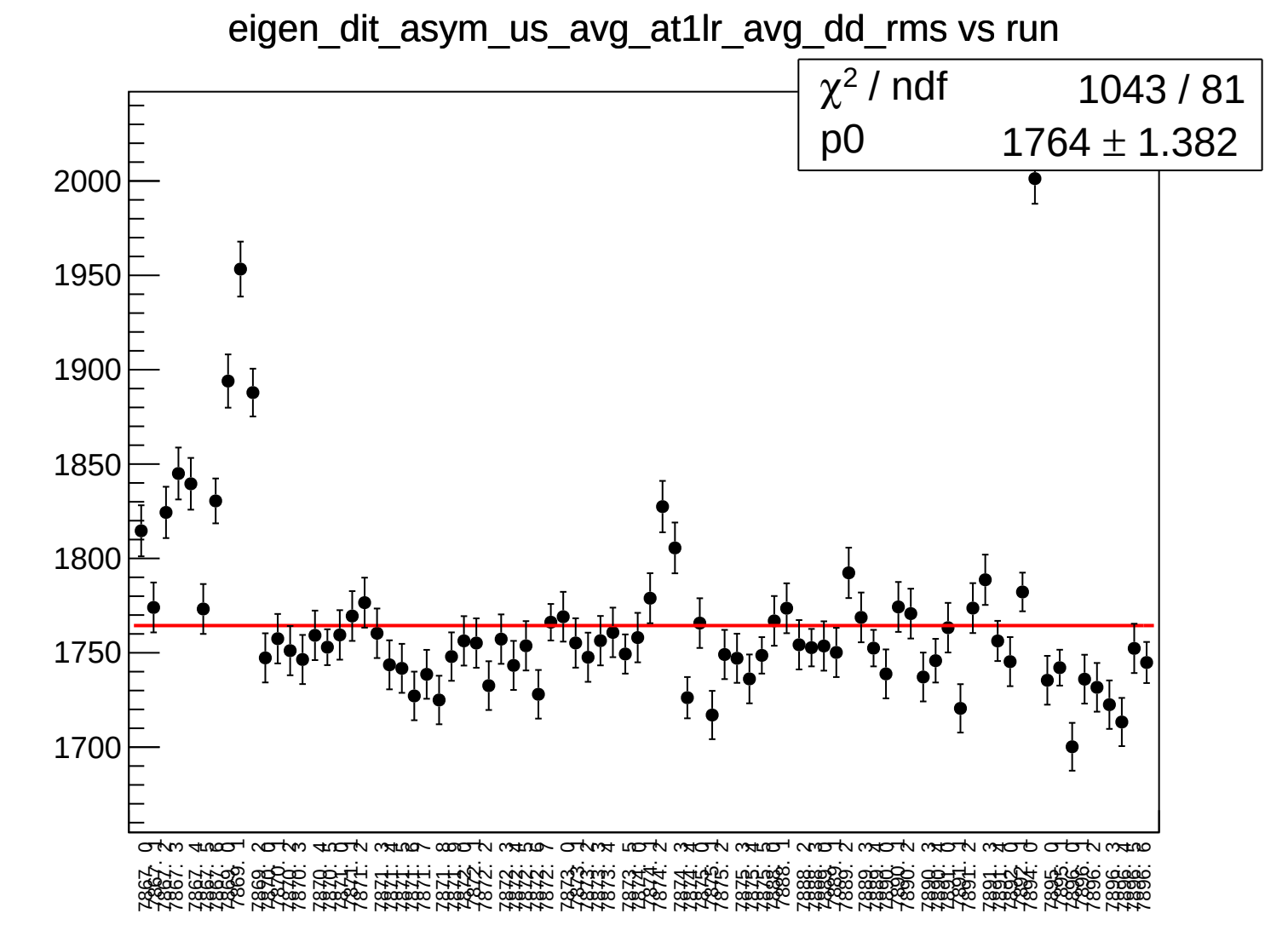

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 66.69 / 81
p0 297.1 ± 998.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −26.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

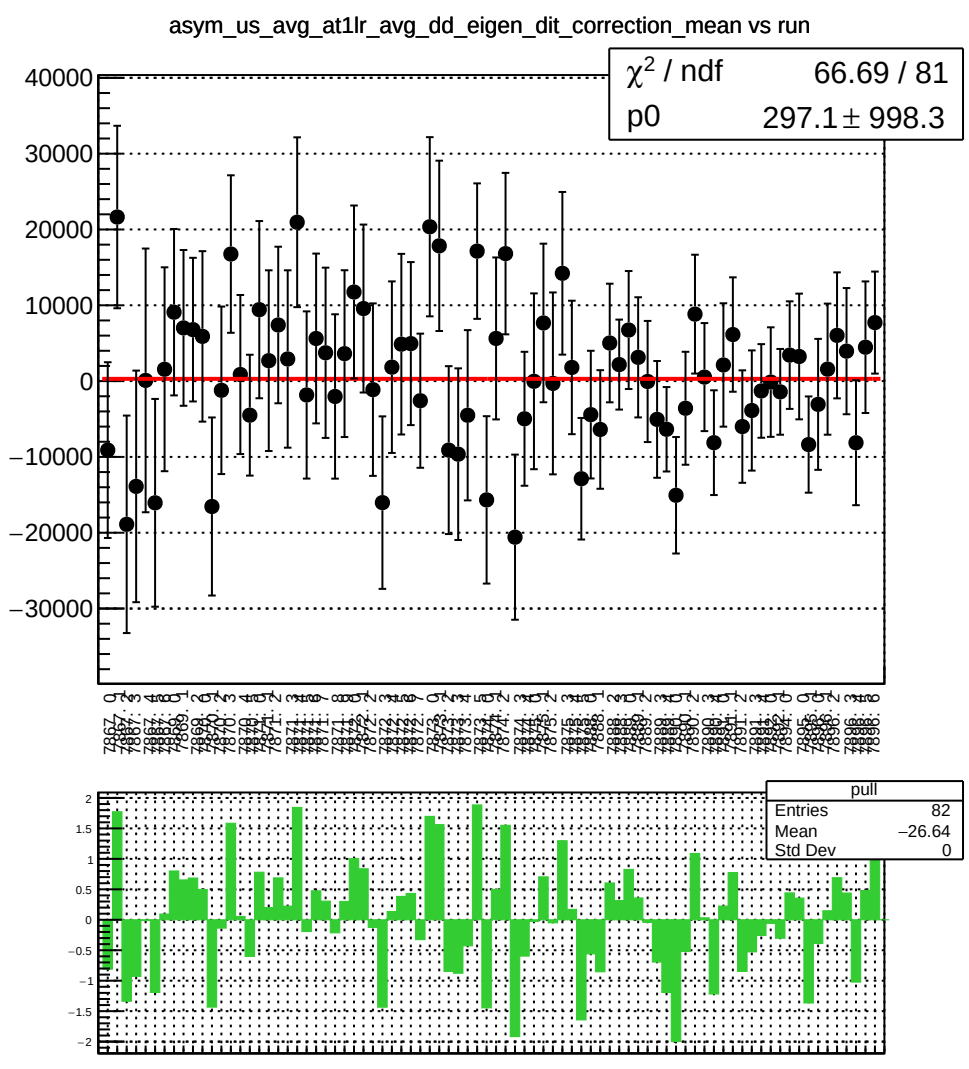

pull1D
Entries 82
Mean 0.03145
Std Dev 0.9012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

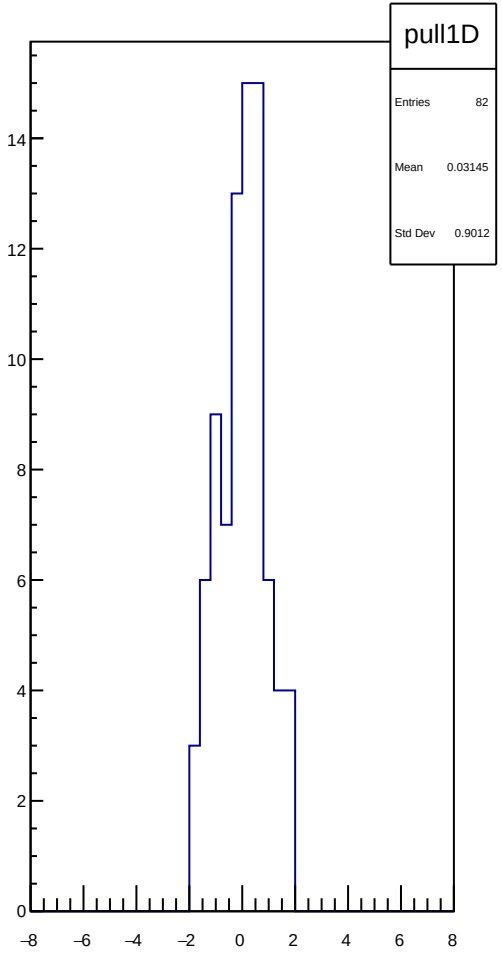

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6.242e+04 / 81
p0 884.4 ± 0.7059
1600
1400
1200
1000
800
600

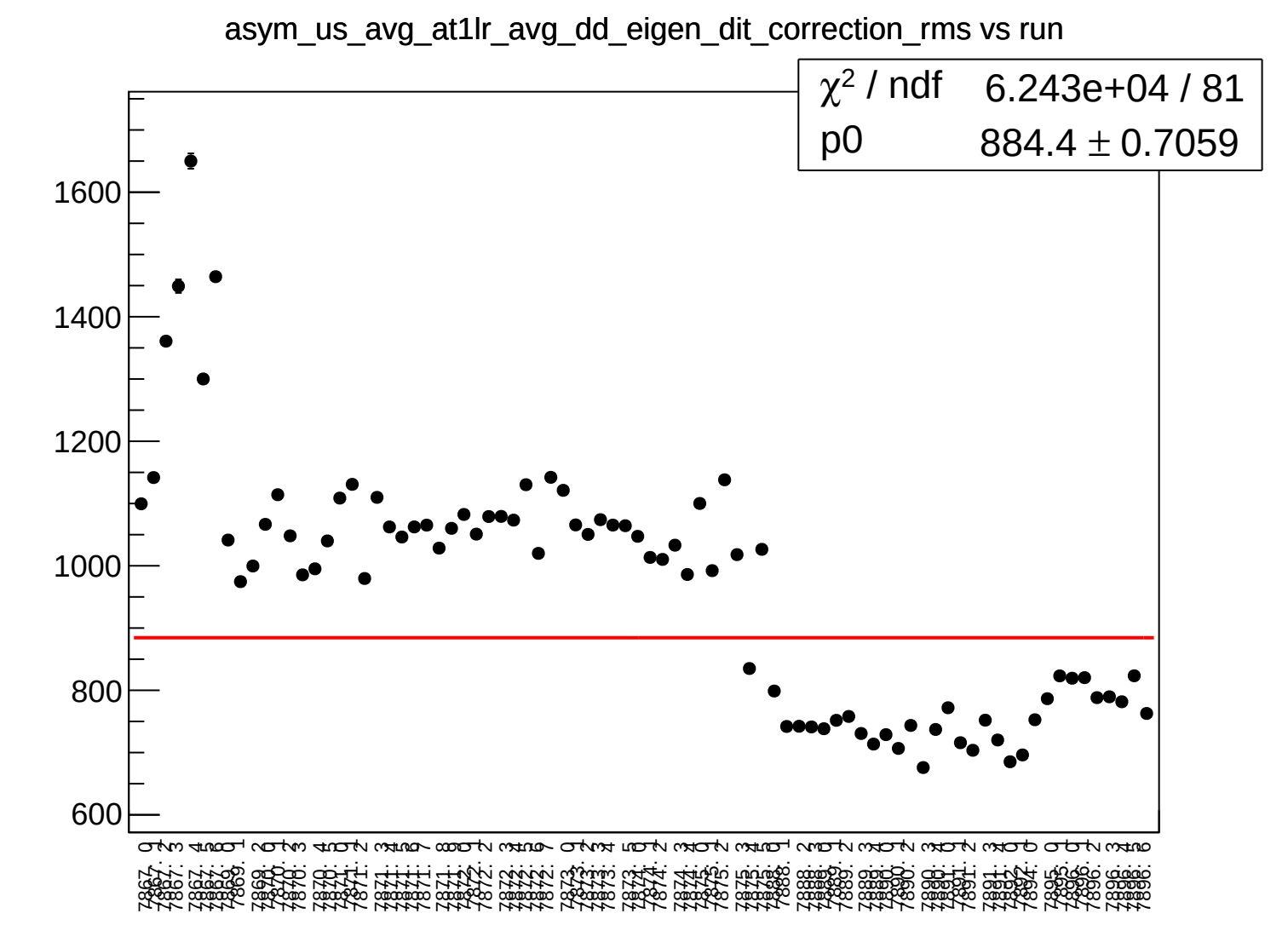

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 41.97 / 81
p0 1971 ± 1954
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −123.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

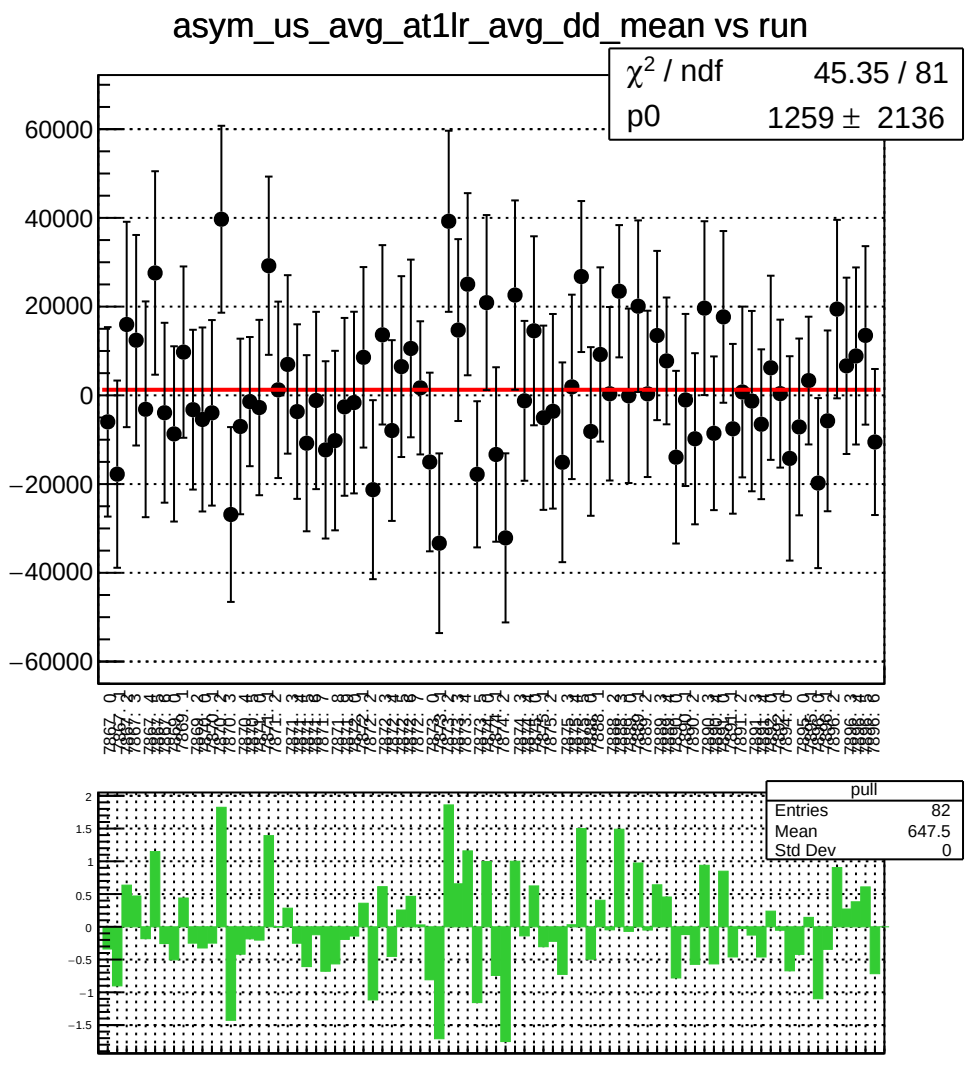

pull1D
Entries 82
Mean 0.003269
Std Dev 0.7155
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

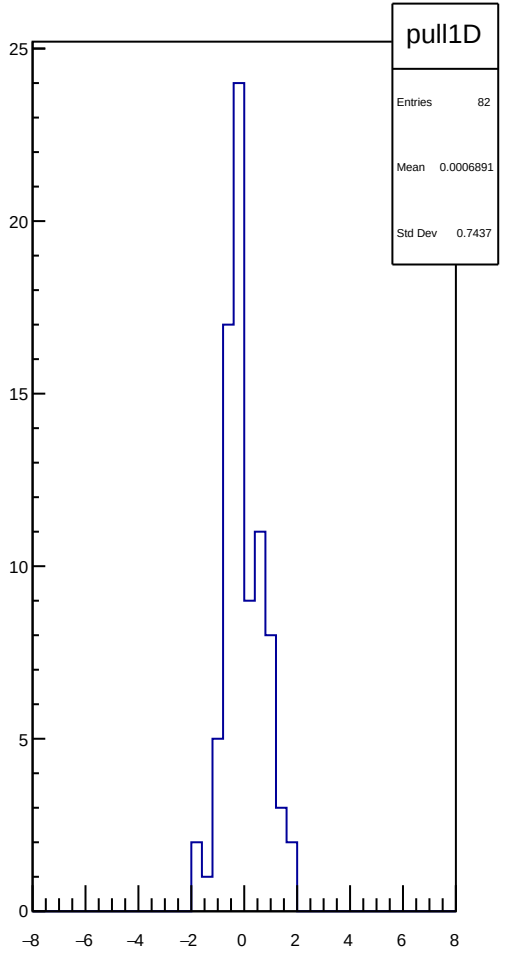

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1043 / 81
p0 1764 ± 1.382
2000
1950
1900
1850
1800
1750
1700

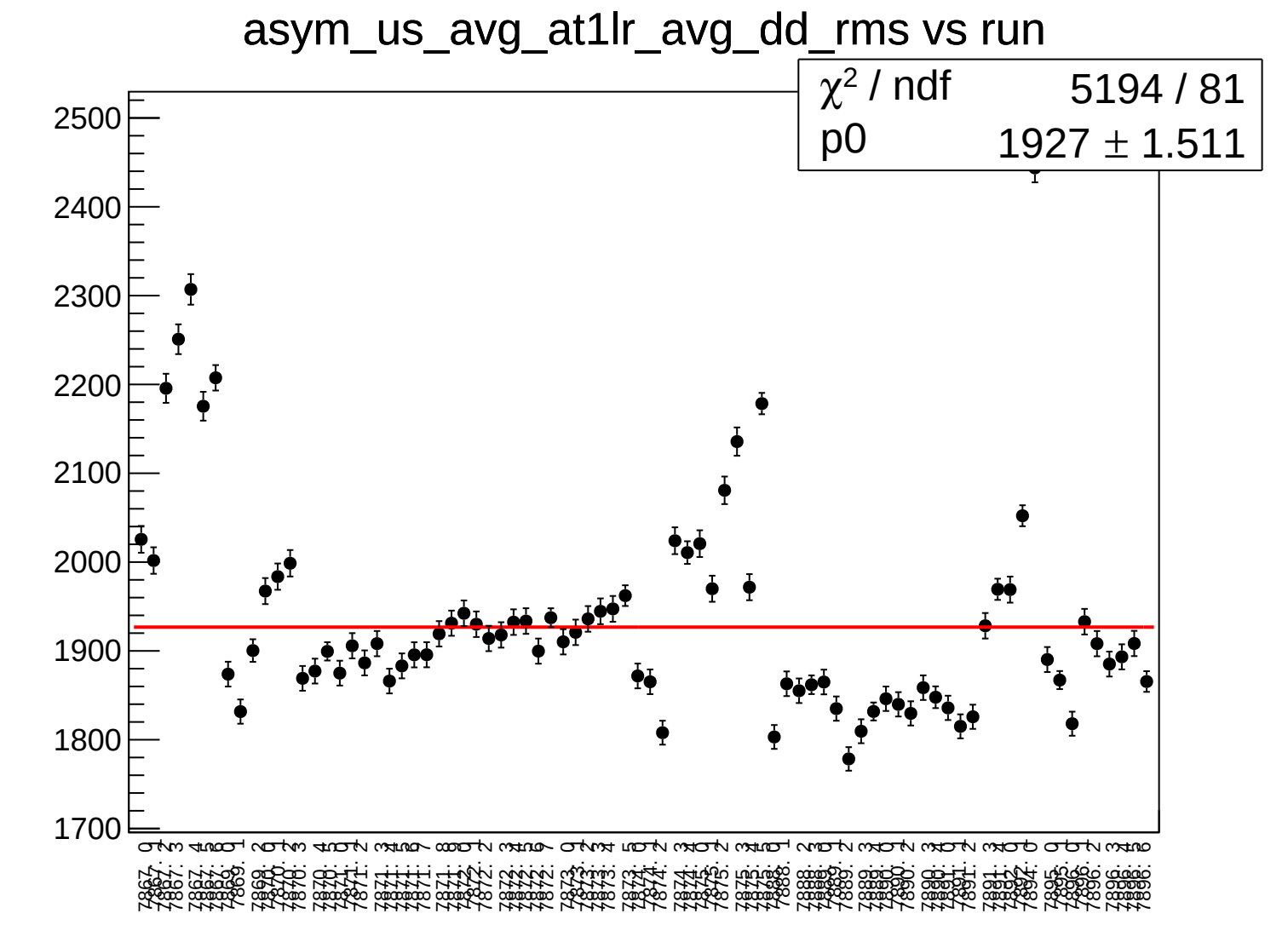

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.69 / 81
p0 297.1 ± 998.3
pull
Entries 82
Mean −26.64
Std Dev 0

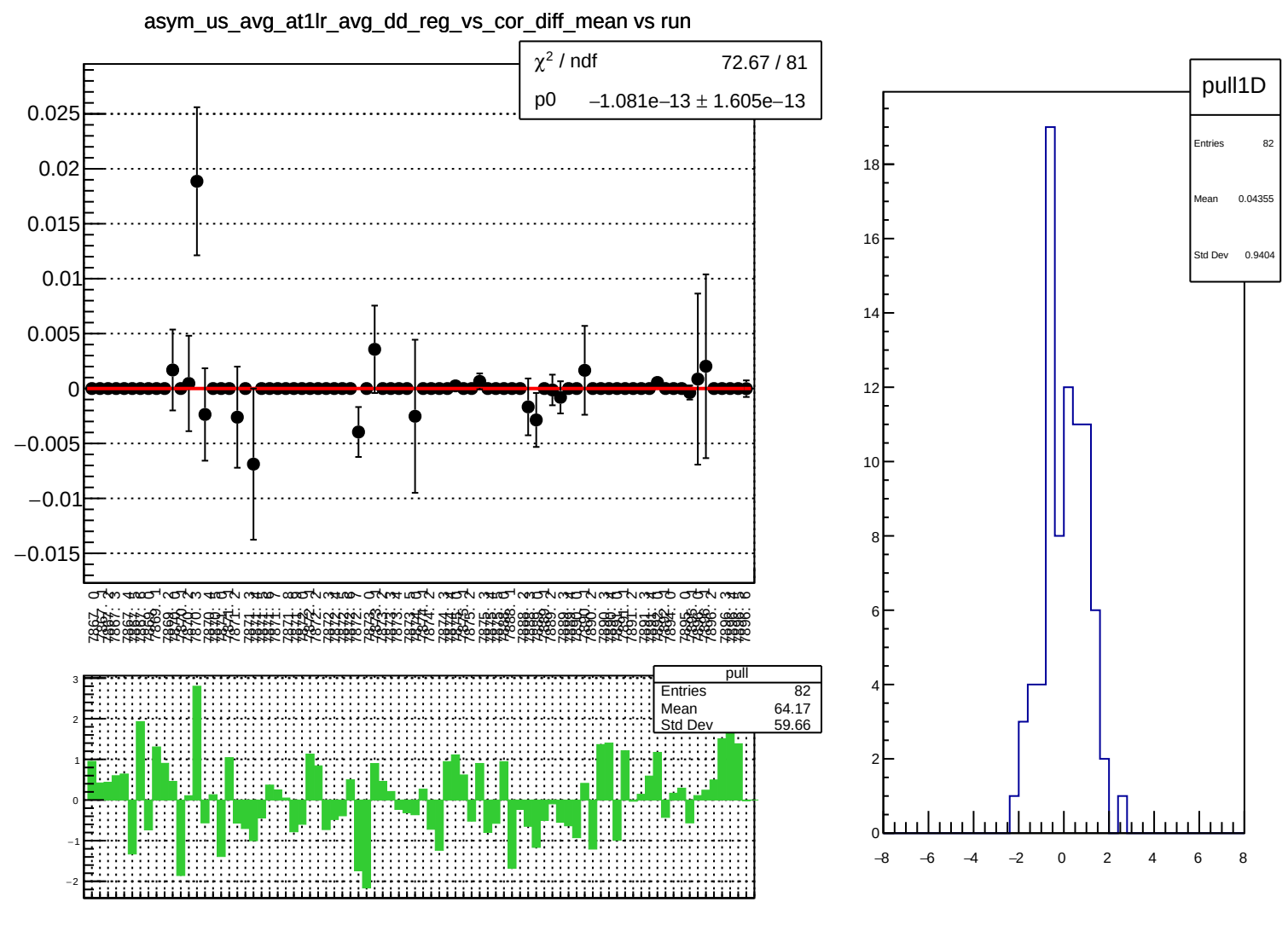

pull1D
Entries 82
Mean 0.03145
Std Dev 0.9012

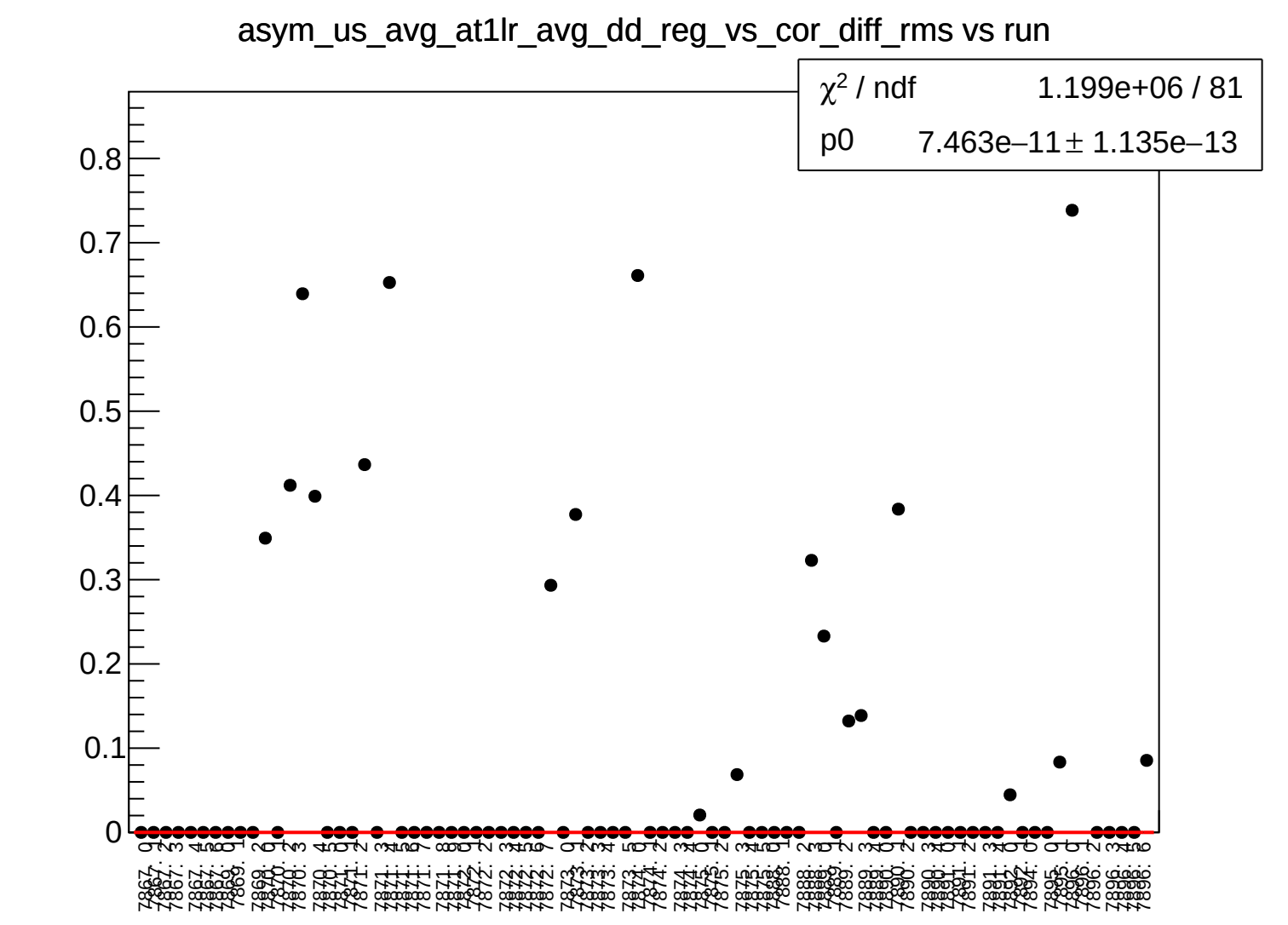

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.243e+04 / 81
p0 884.4 ± 0.7059
1600
1400
1200
1000
800
600

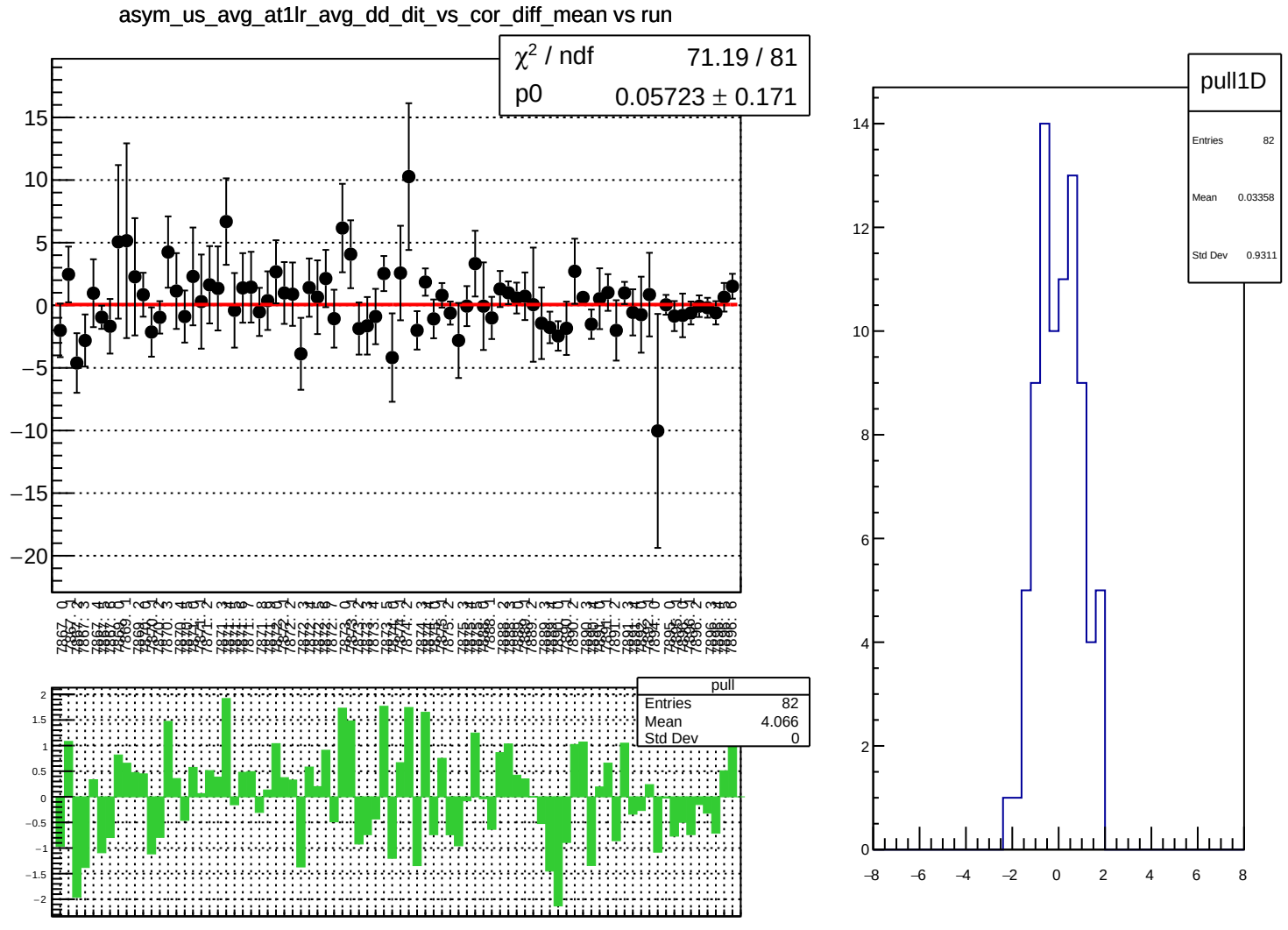

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.35 / 81
p0 1259 ± 2136
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 647.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

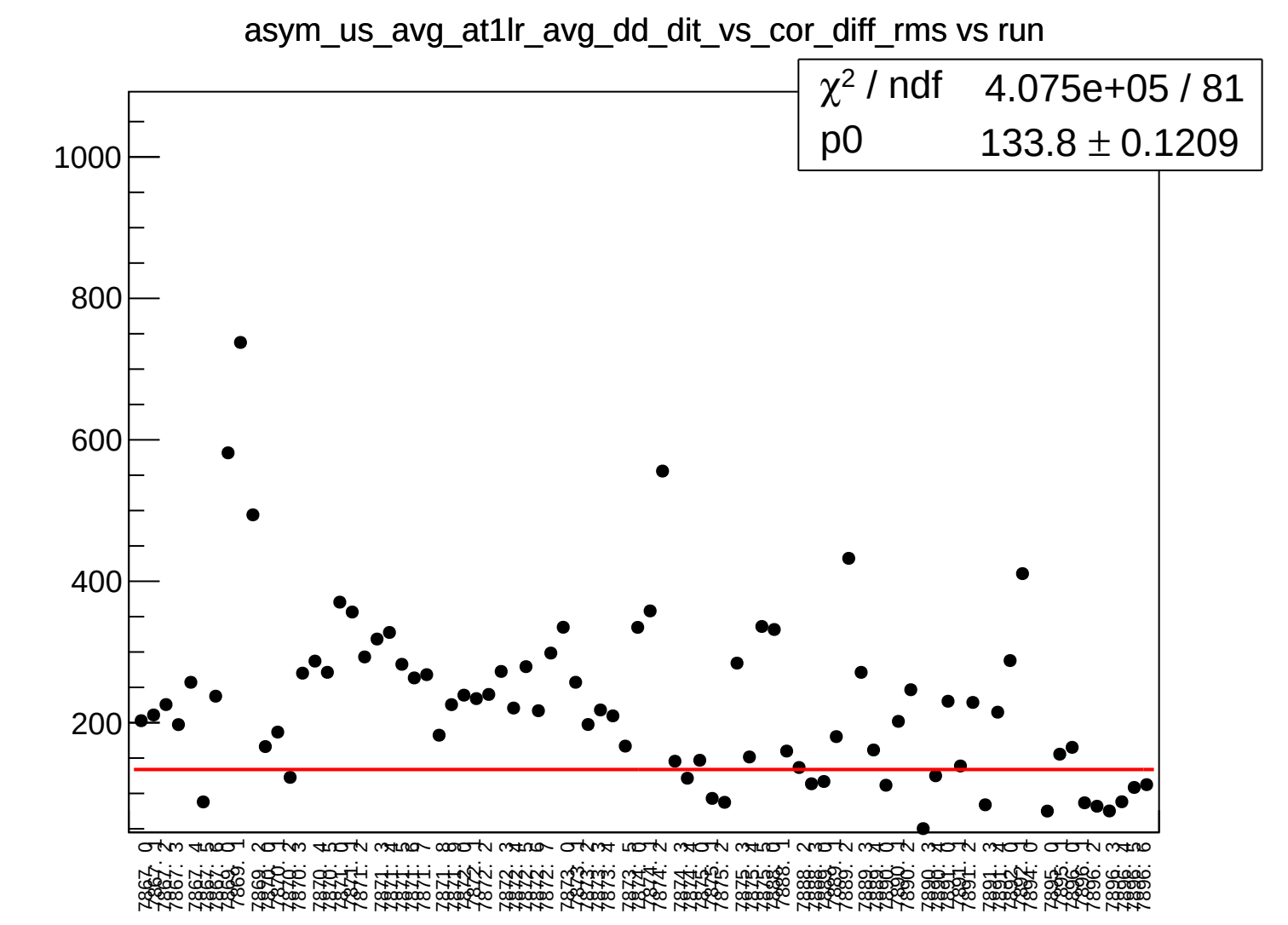

pull1D
Entries 82
Mean 0.0006891
Std Dev 0.7437
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

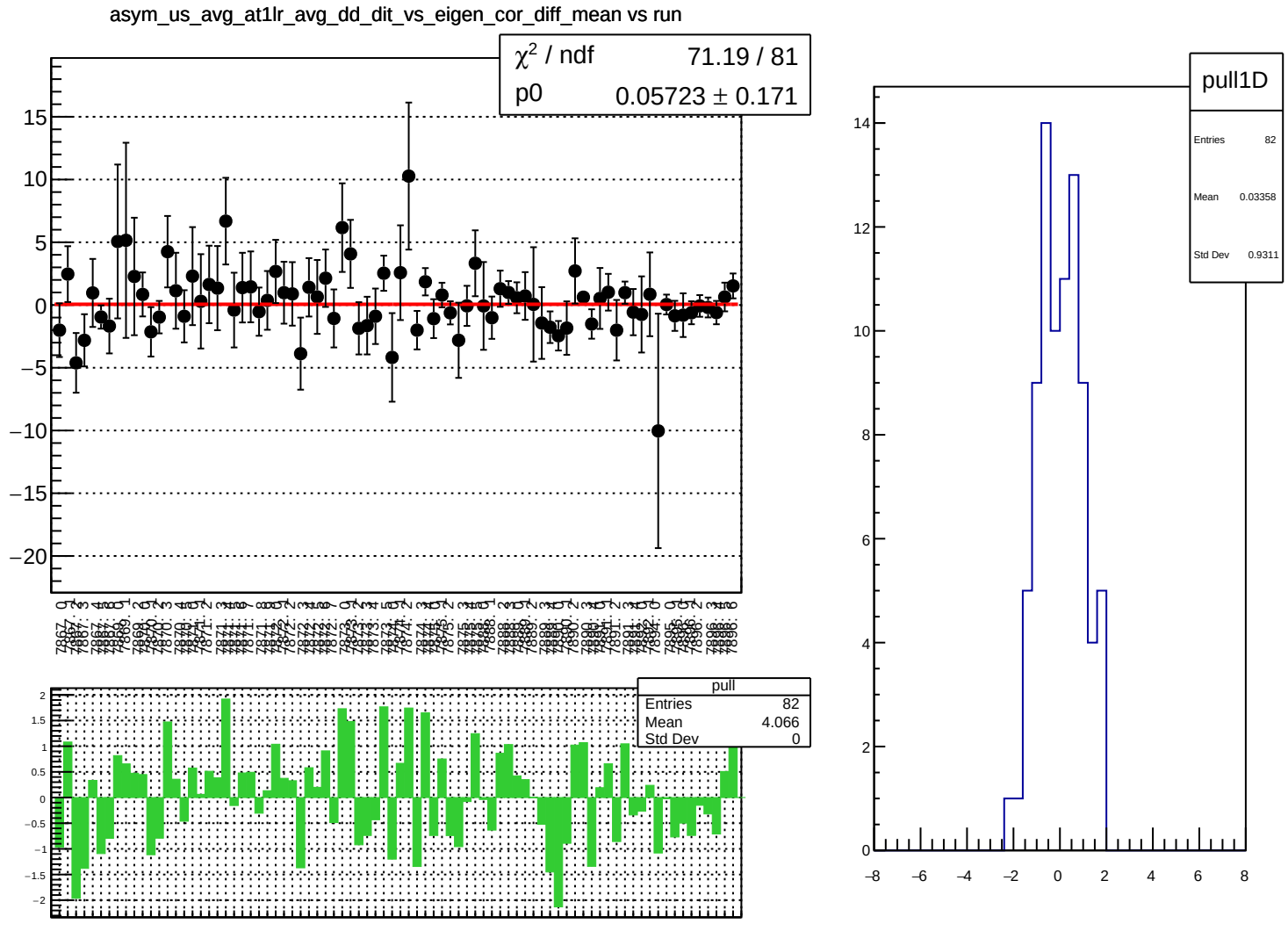

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 5194 / 81
p0 1927 ± 1.511
2500
2400
2300
2200
2100
2000
1900
1800
1700

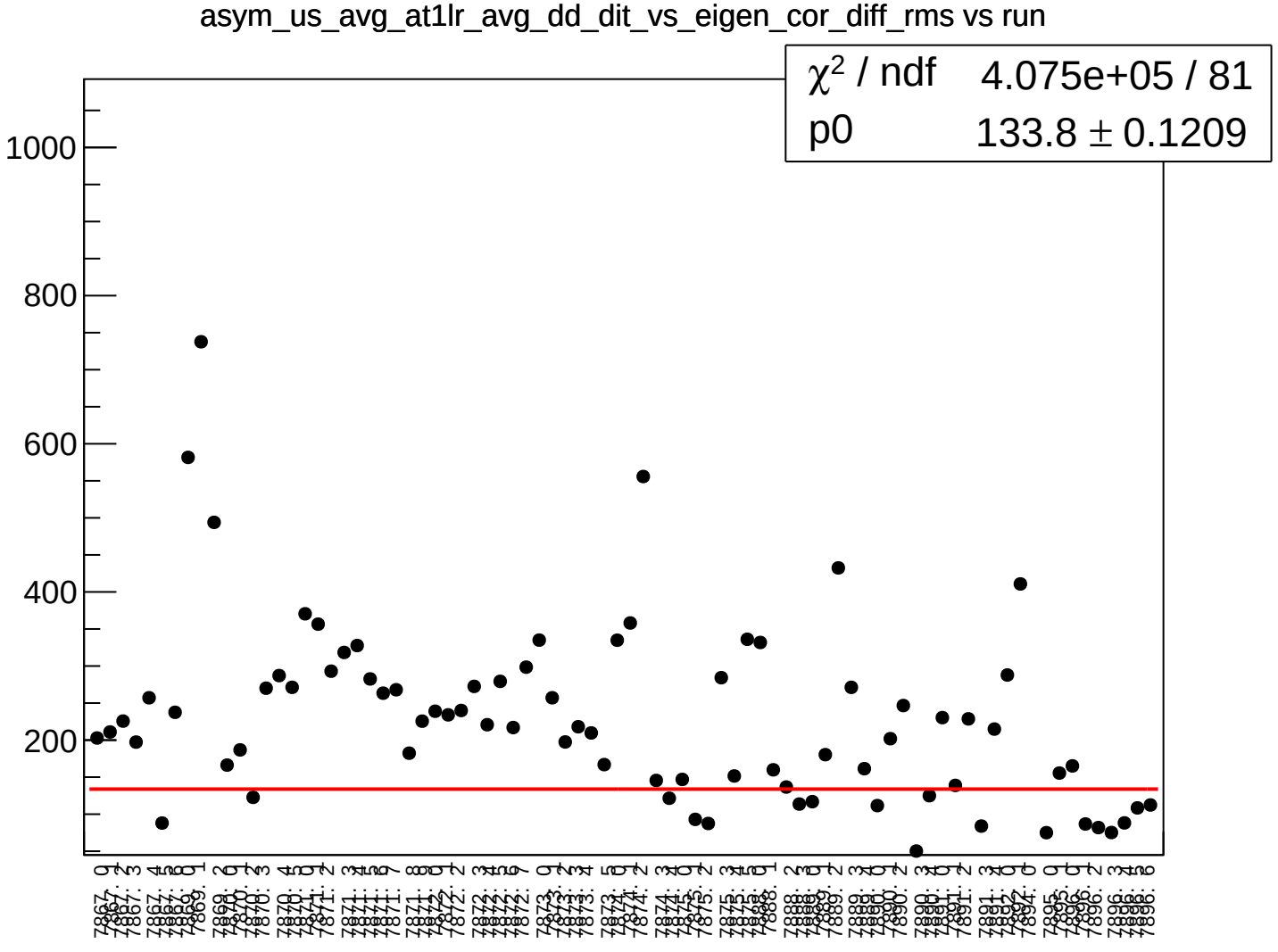

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.67 / 81
p0 −1.081e−13 ± 1.605e−13
pull
Entries 82
Mean 64.17
Std Dev 59.66
pull1D
Entries 82
Mean 0.04355
Std Dev 0.9404

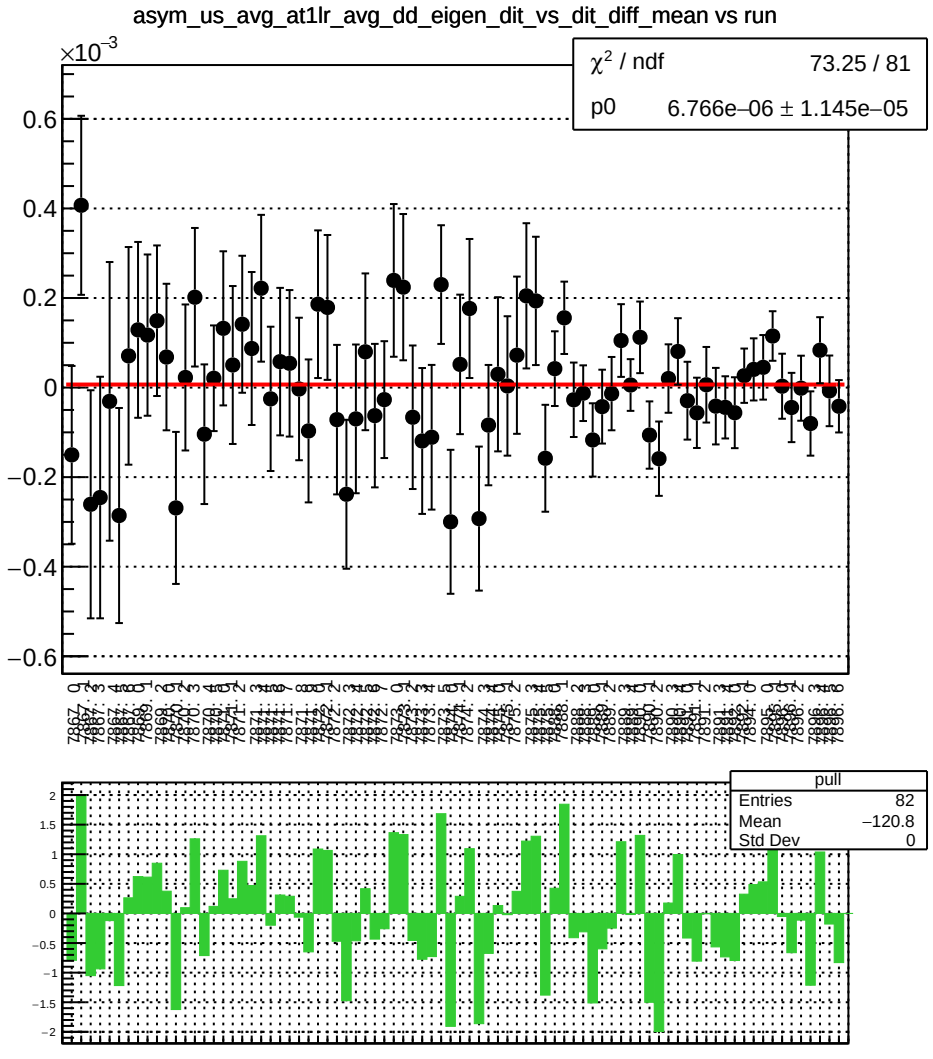

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 81
p0 7.463e−11 ± 1.135e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

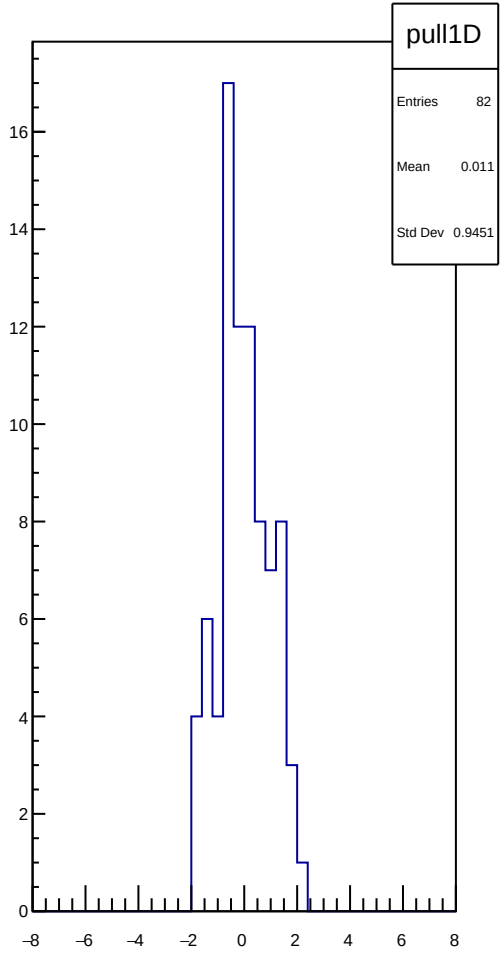

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.19 / 81
p0 0.05723 ± 0.171
pull
Entries 82
Mean 4.066
Std Dev 0
pull1D
Entries 82
Mean 0.03358
Std Dev 0.9311

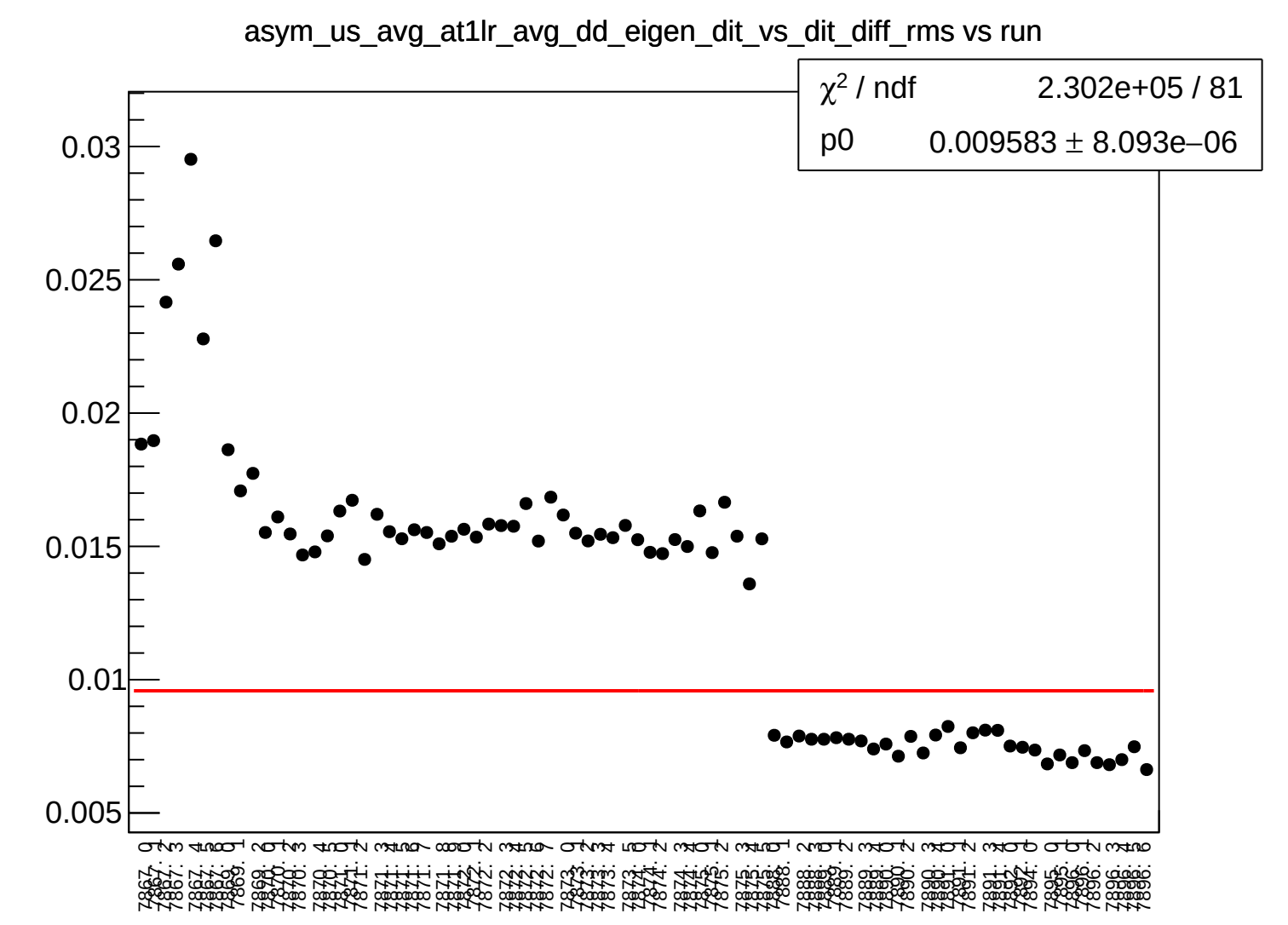

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.075e+05 / 81
p0 133.8 ± 0.1209
1000
800
600
400
200

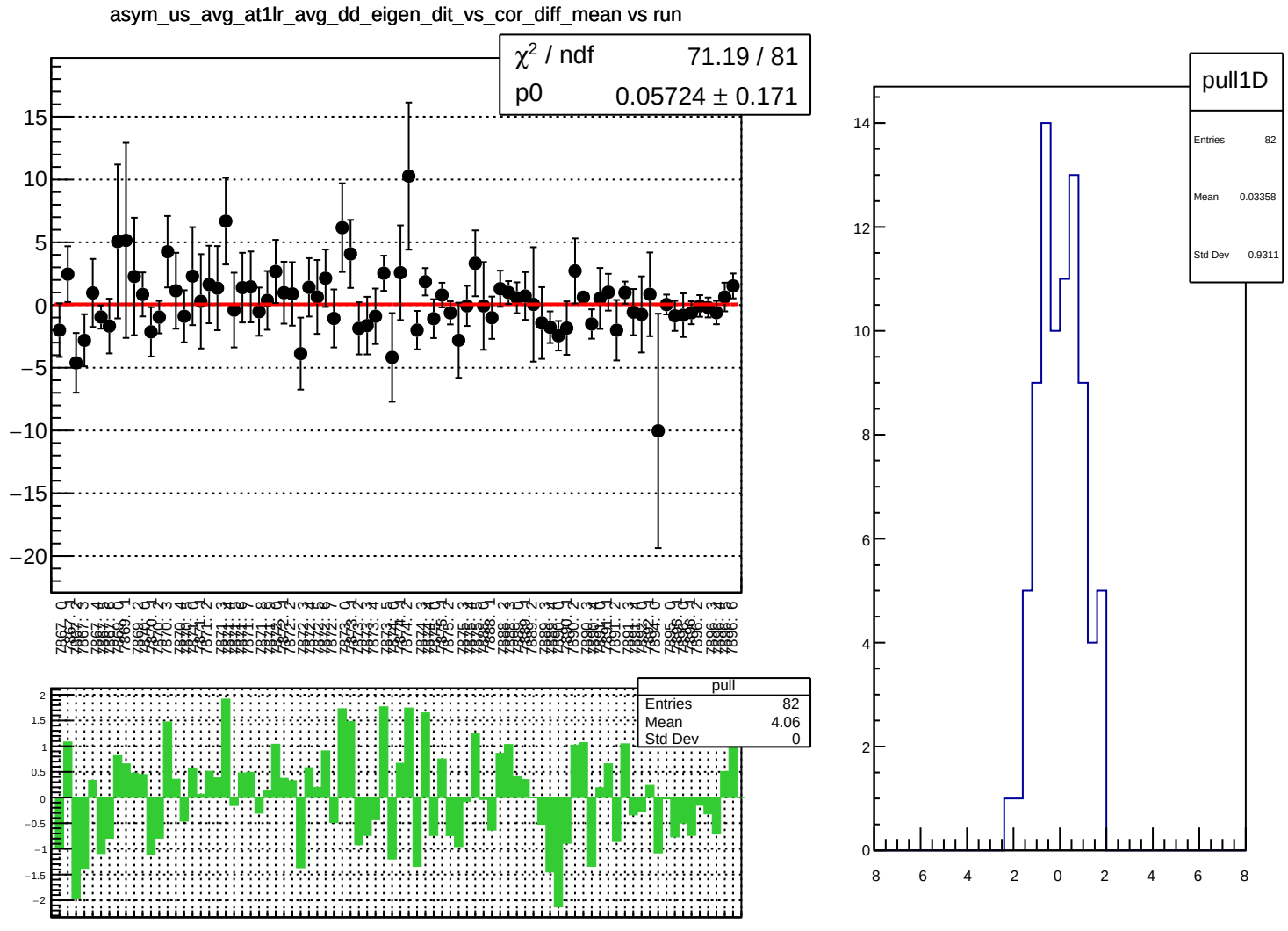

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.19 / 81
p0 0.05723 ± 0.171
pull
Entries 82
Mean 4.066
Std Dev 0
pull1D
Entries 82
Mean 0.03358
Std Dev 0.9311

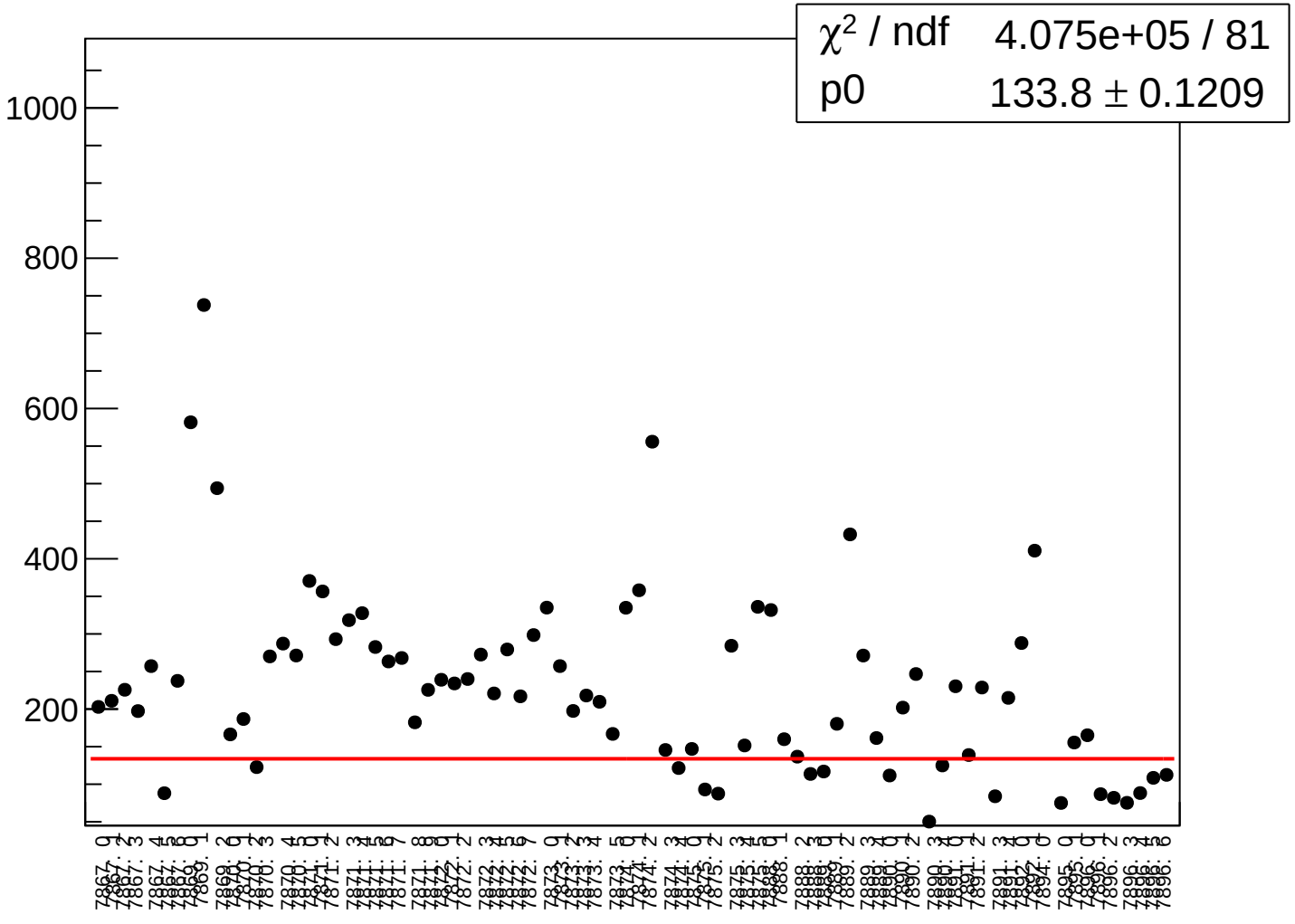

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.075e+05 / 81
p0 133.8 ± 0.1209
1000
800
600
400
200

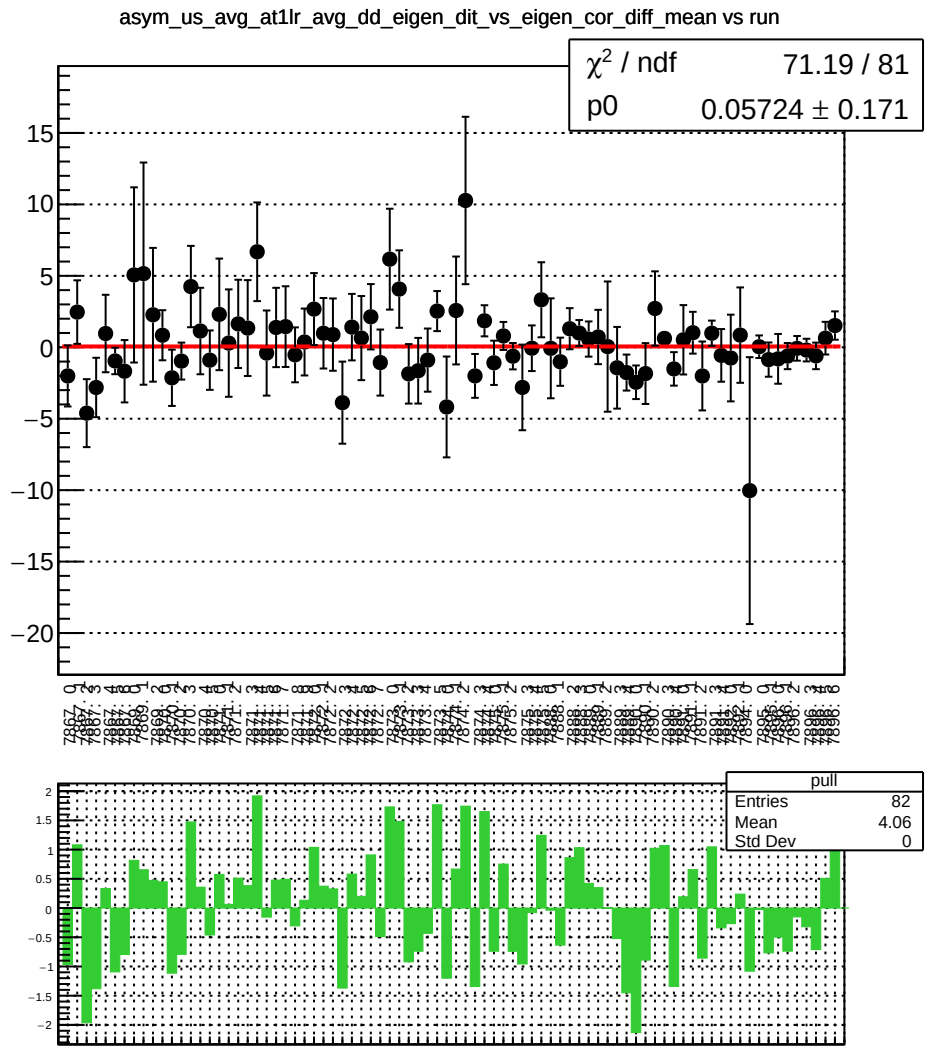

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.25 / 81
p0 6.766e−06 ± 1.145e−05
pull
Entries 82
Mean −120.8
Std Dev 0

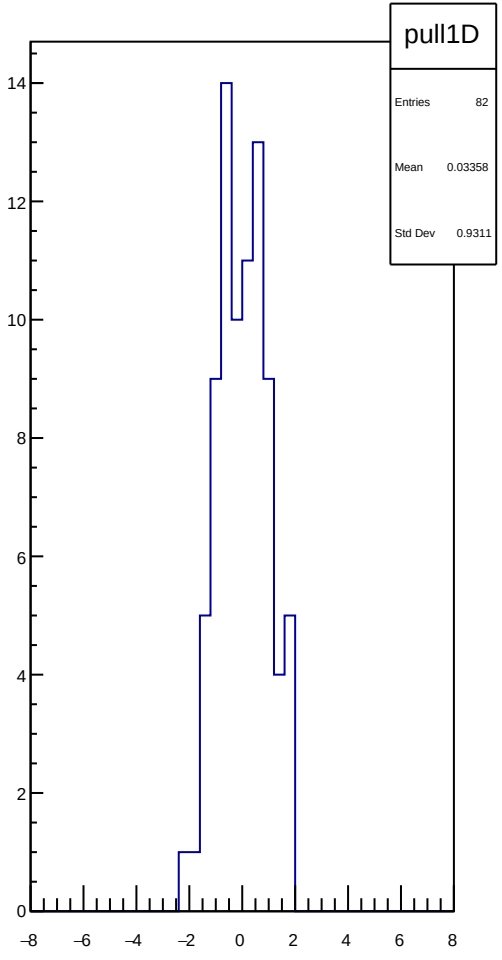

pull1D
Entries 82
Mean 0.011
Std Dev 0.9451

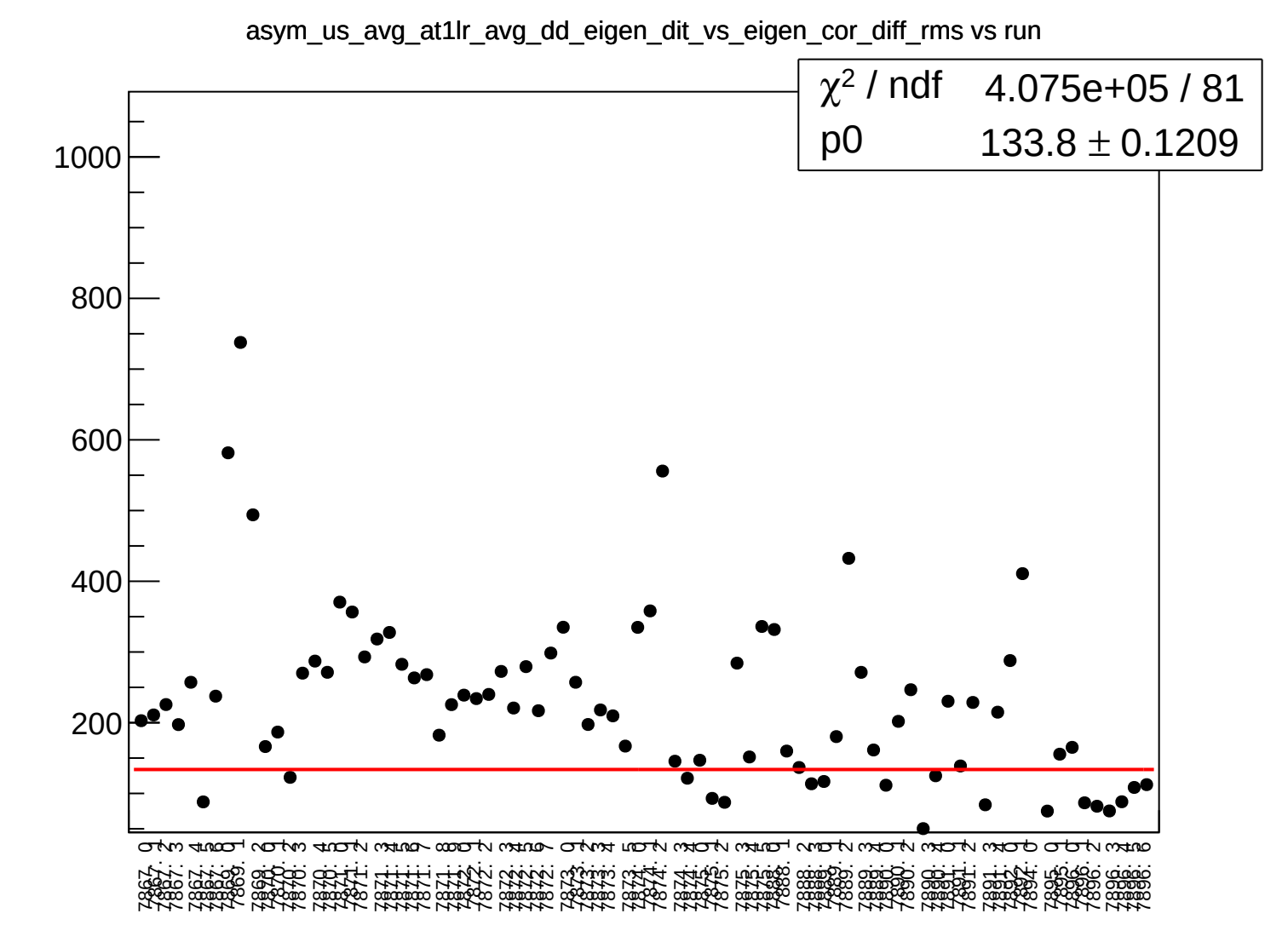

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.302e+05 / 81
p0 0.009583 ± 8.093e−06
0.03
0.025
0.02
0.015
0.01
0.005

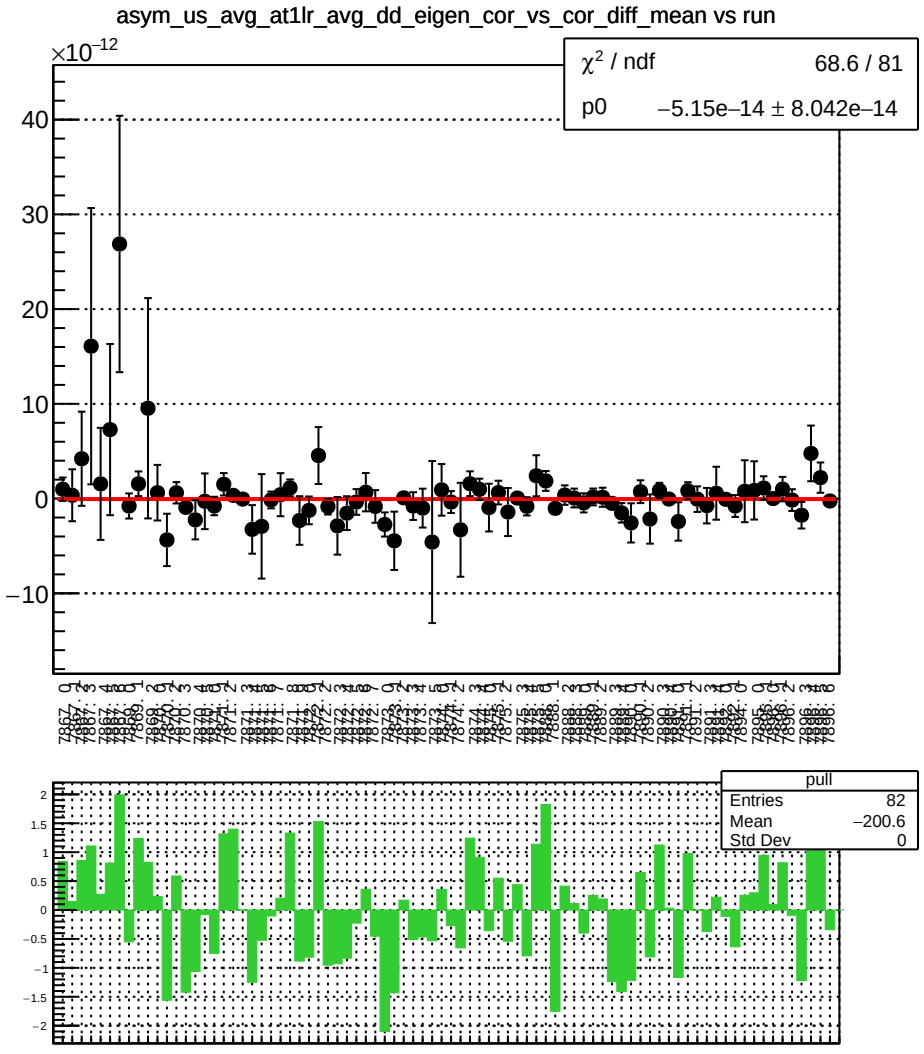

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.19 / 81
p0 0.05724 ± 0.171
pull
Entries 82
Mean 4.06
Std Dev 0
pull1D
Entries 82
Mean 0.03358
Std Dev 0.9311

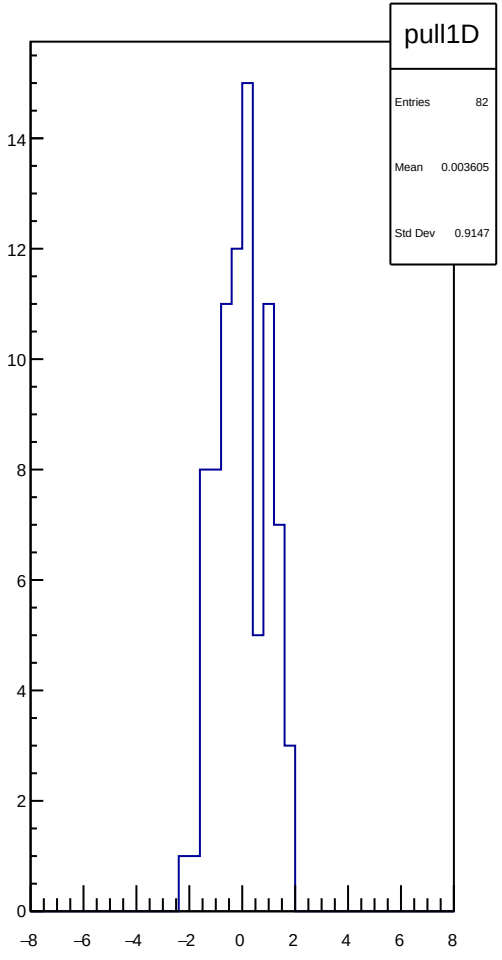

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.075e+05 / 81
p0 133.8 ± 0.1209
1000
800
600
400
200

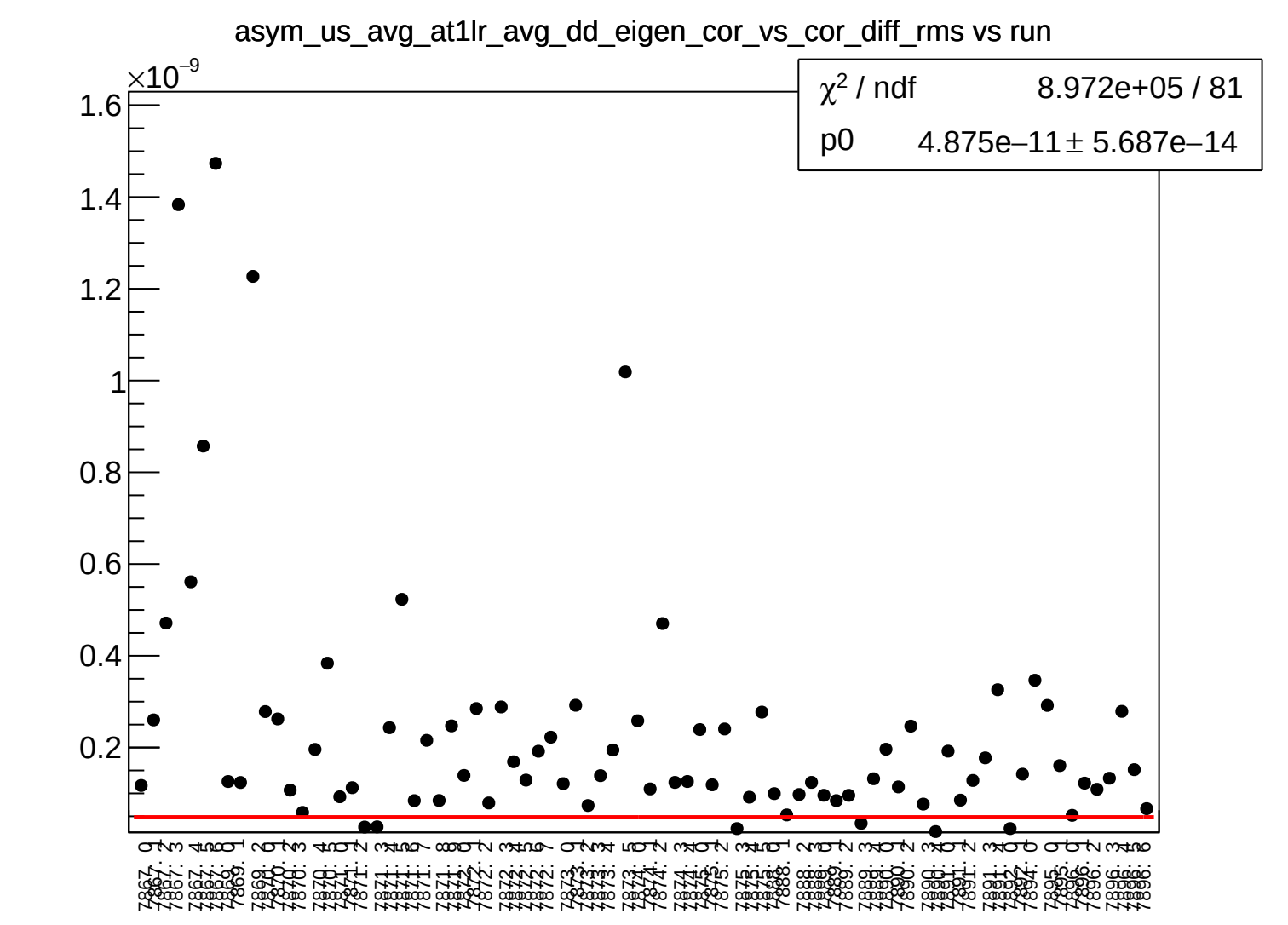

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.19 / 81
p0 0.05724 ± 0.171
pull
Entries 82
Mean 4.06
Std Dev 0

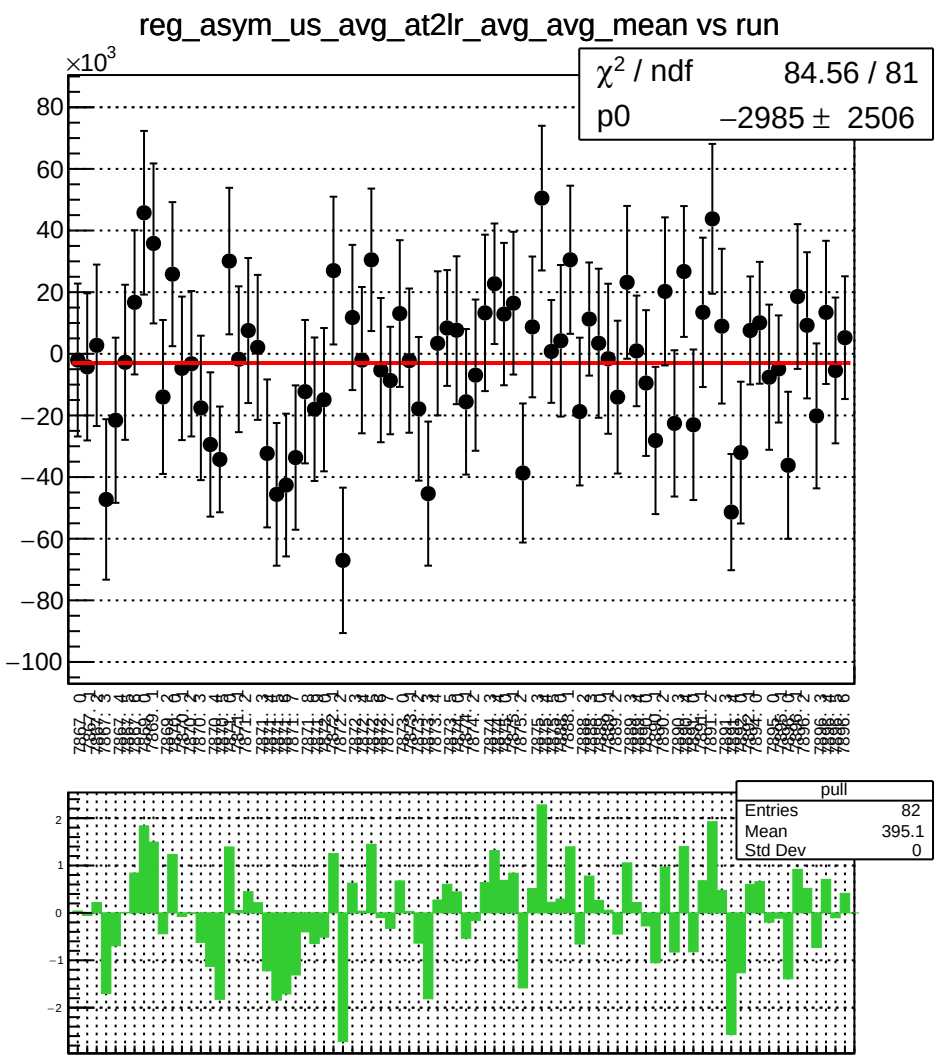

pull1D
Entries 82
Mean 0.03358
Std Dev 0.9311

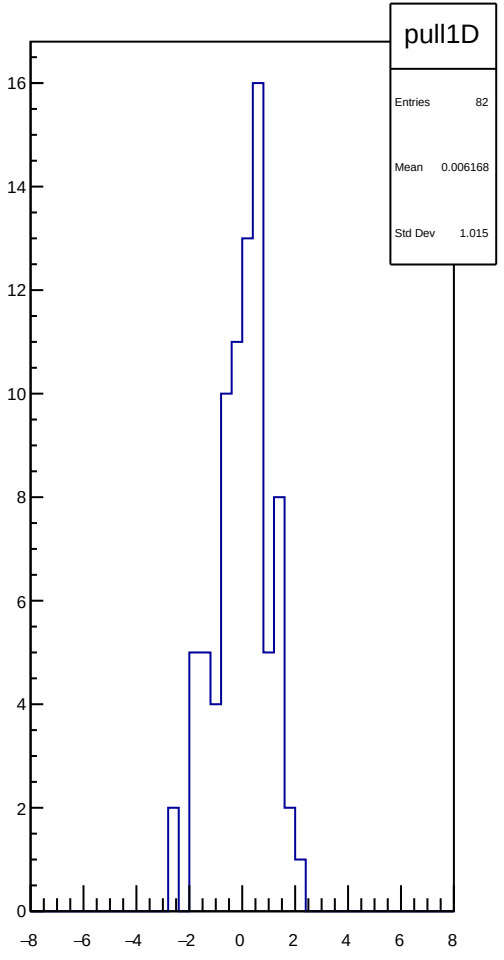

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.075e+05 / 81
p0 133.8 ± 0.1209
1000
800
600
400
200

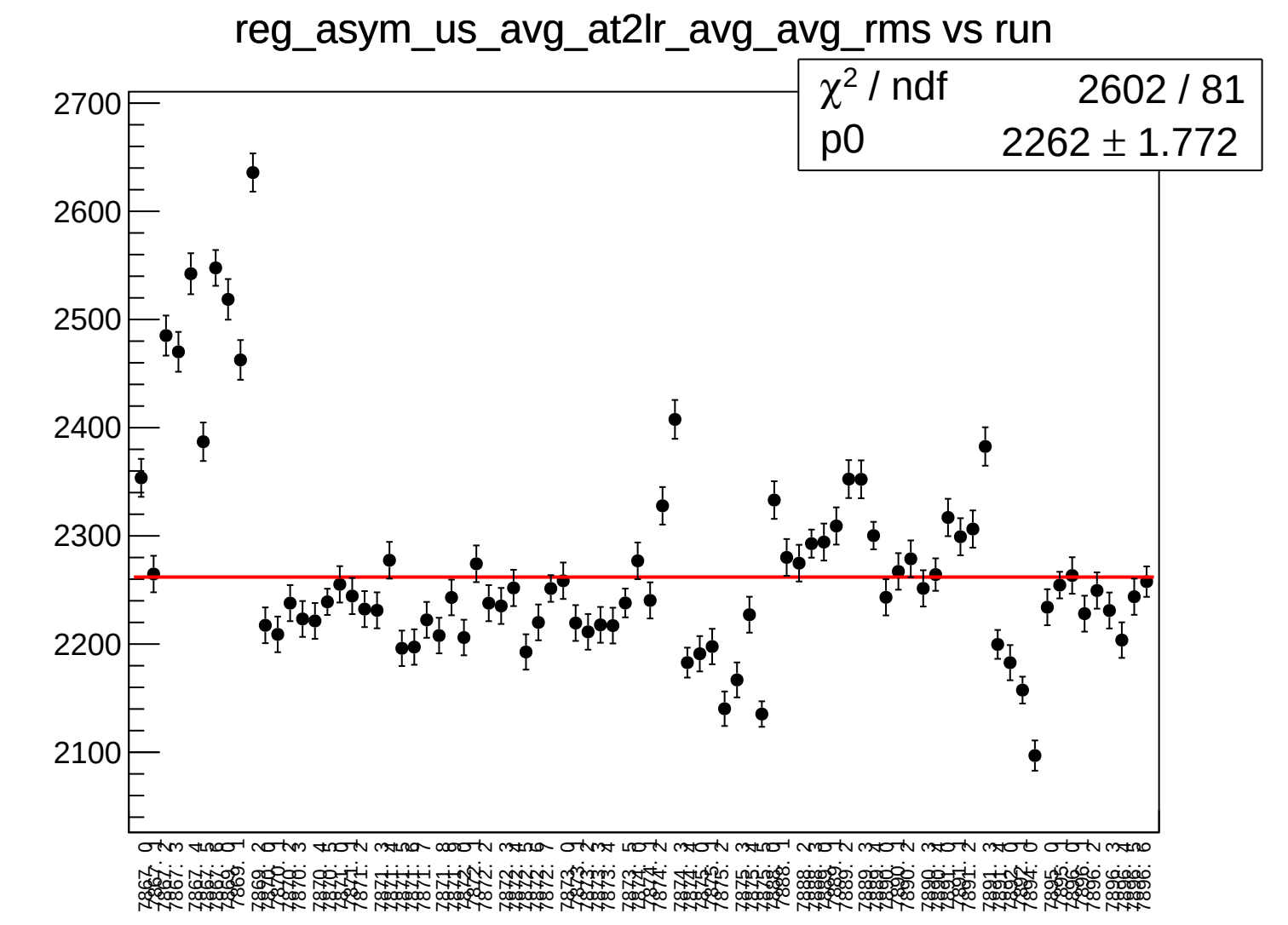

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.6 / 81
p0 −5.15e−14 ± 8.042e−14
pull
Entries 82
Mean −200.6
Std Dev 0

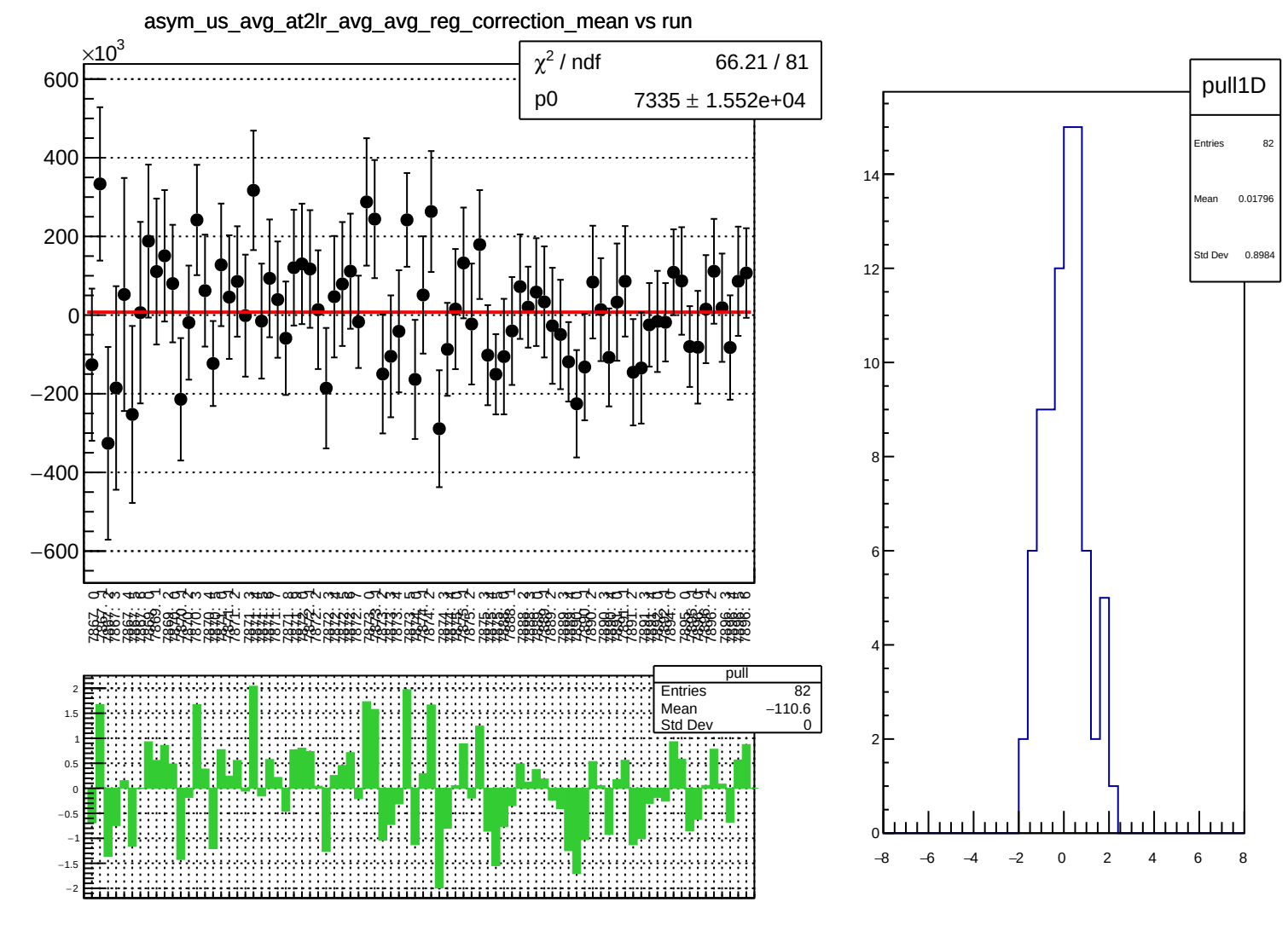

pull1D
Entries 82
Mean 0.003605
Std Dev 0.9147

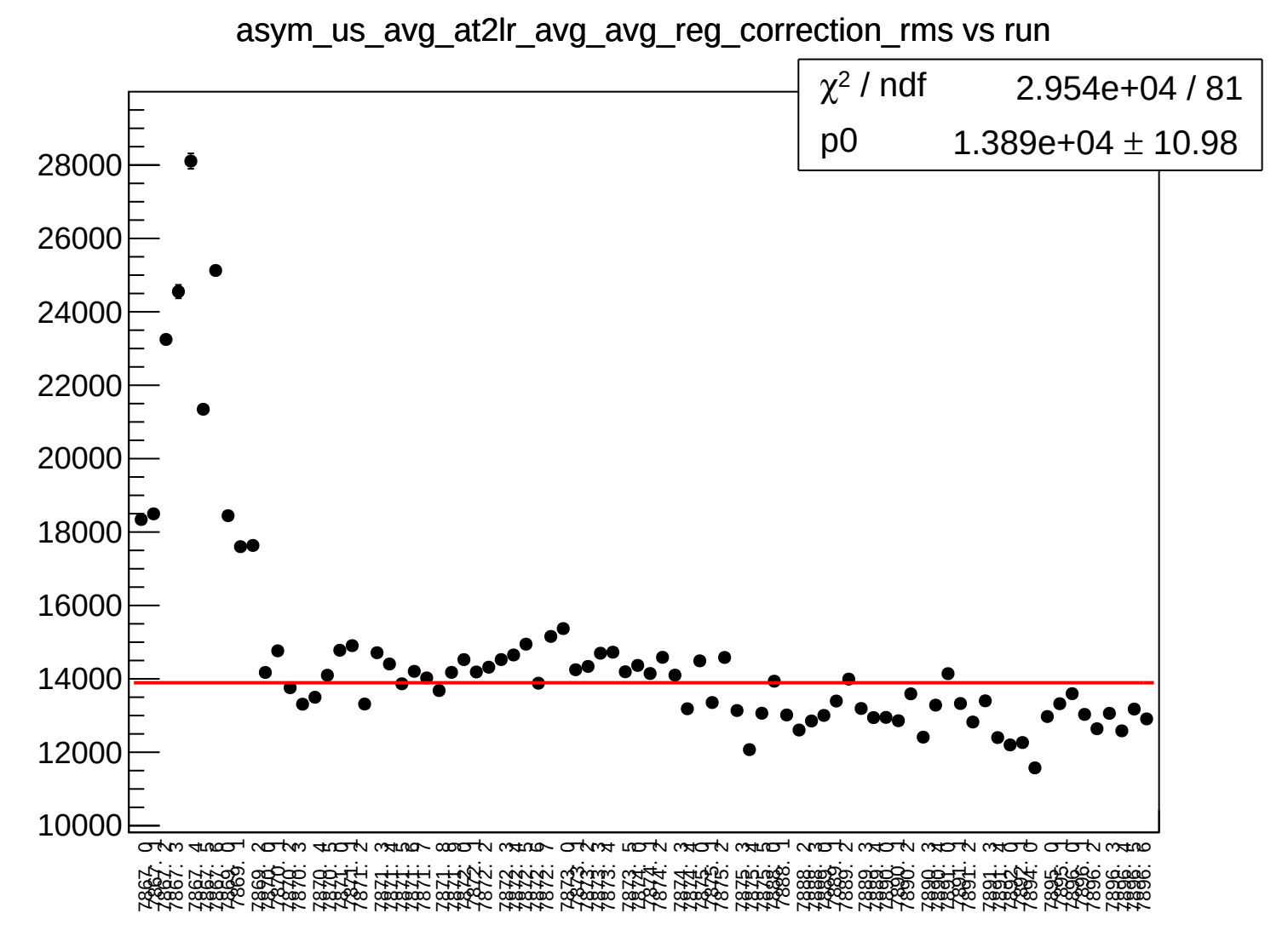

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.972e+05 / 81
p0 4.875e−11 ± 5.687e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

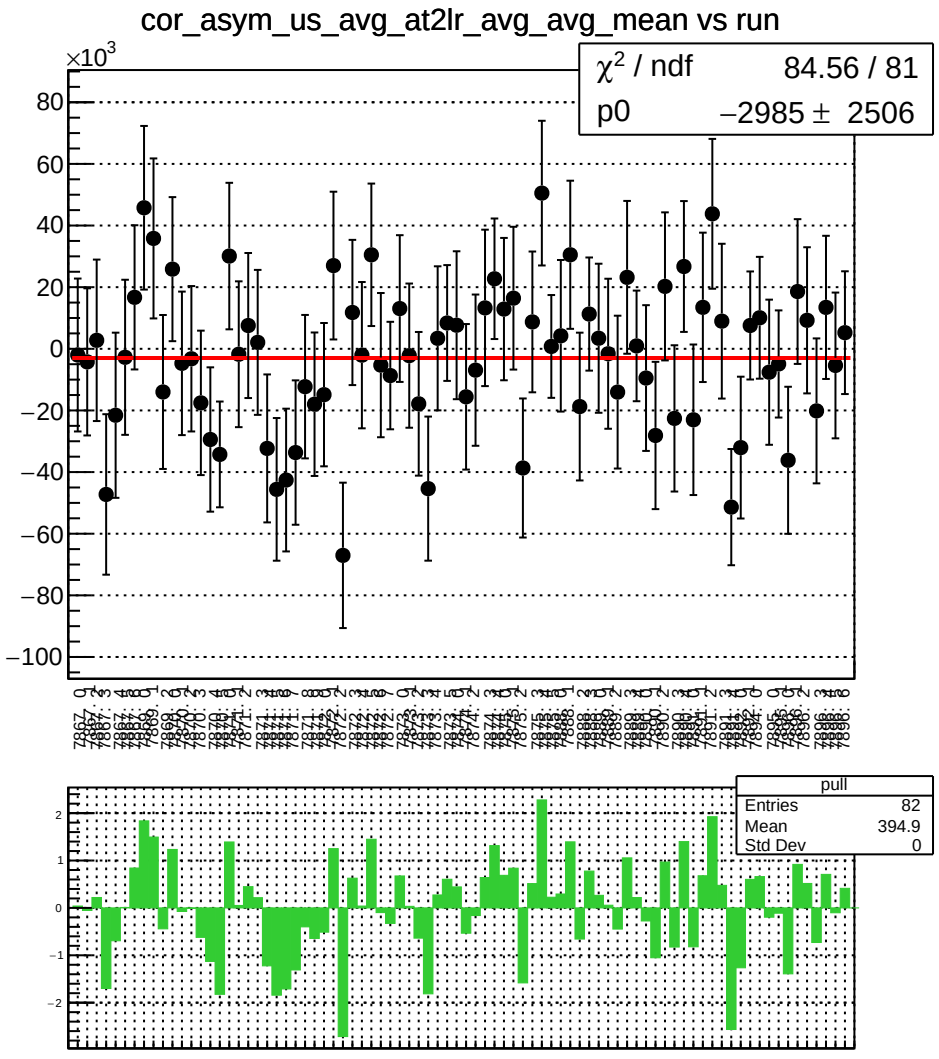

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.56 / 81
p0 −2985 ± 2506
pull
Entries 82
Mean 395.1
Std Dev 0

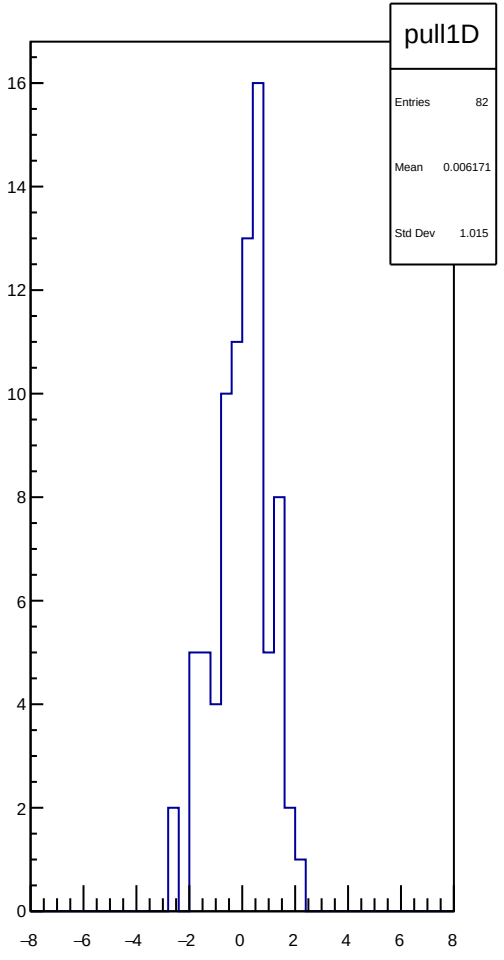

pull1D
Entries 82
Mean 0.006168
Std Dev 1.015

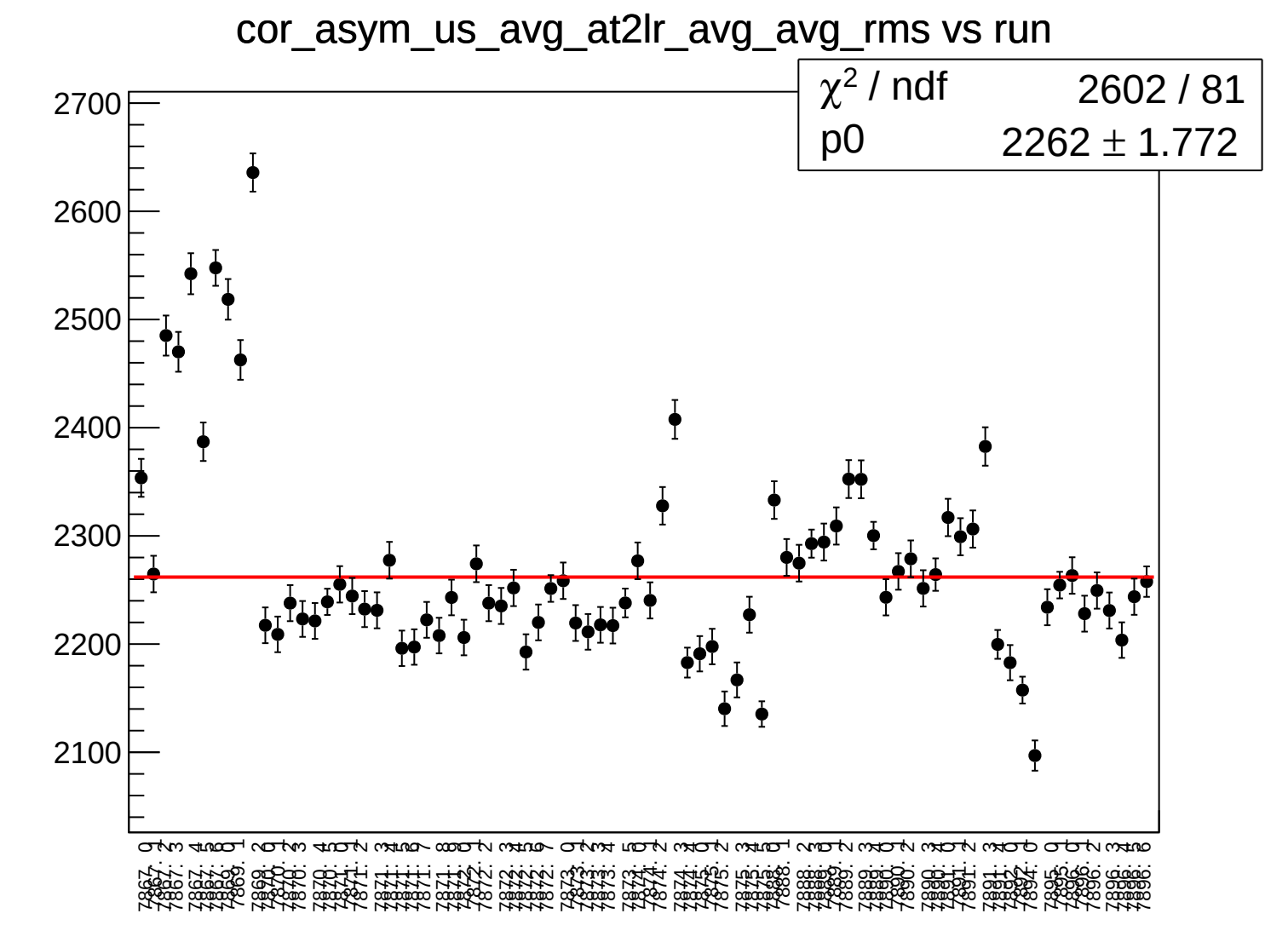

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2602 / 81
p0 2262 ± 1.772
2700
2600
2500
2400
2300
2200
2100

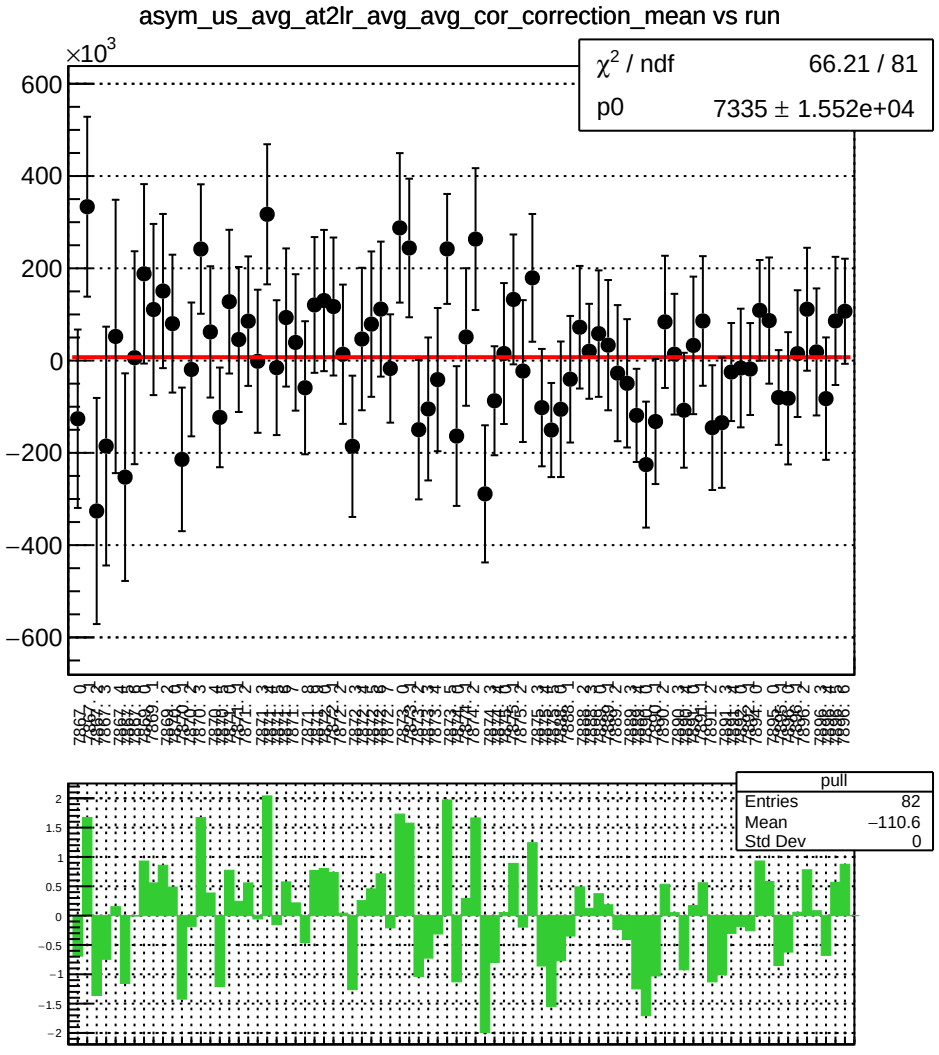

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.21 / 81
p0 7335 ± 1.552e+04
pull
Entries 82
Mean −110.6
Std Dev 0
pull1D
Entries 82
Mean 0.01796
Std Dev 0.8984

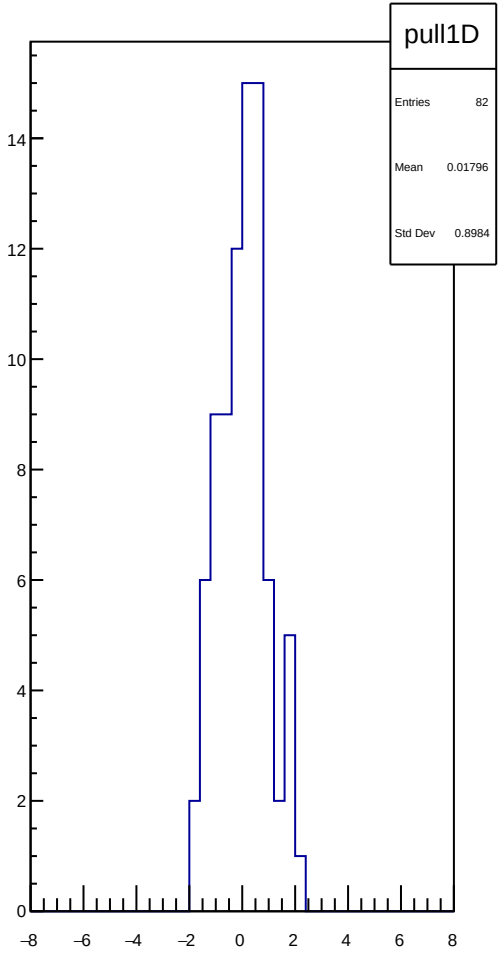

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.954e+04 / 81
p0 1.389e+04 ± 10.98
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000

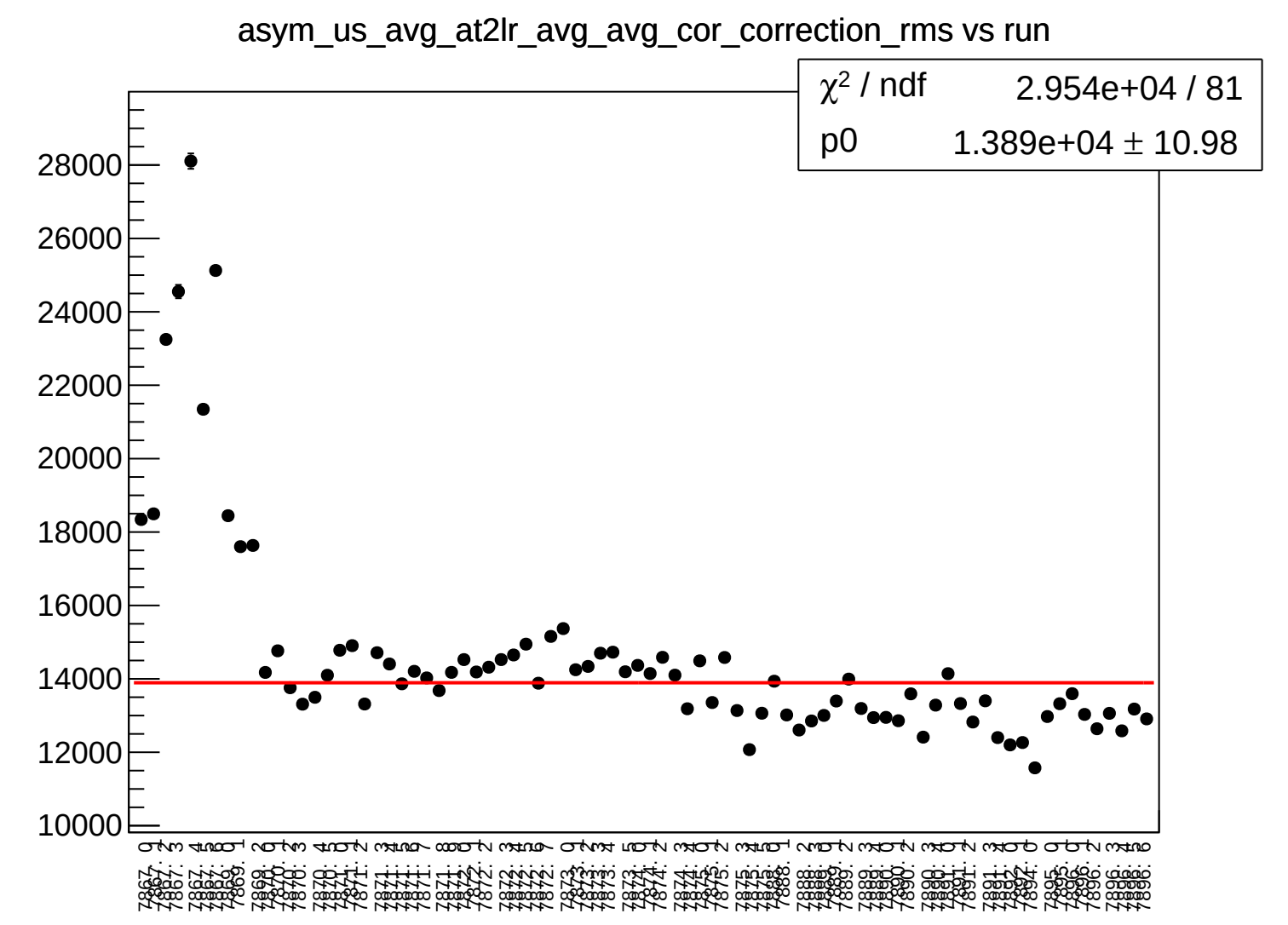

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.56 / 81
p0 −2985 ± 2506
pull
Entries 82
Mean 394.9
Std Dev 0

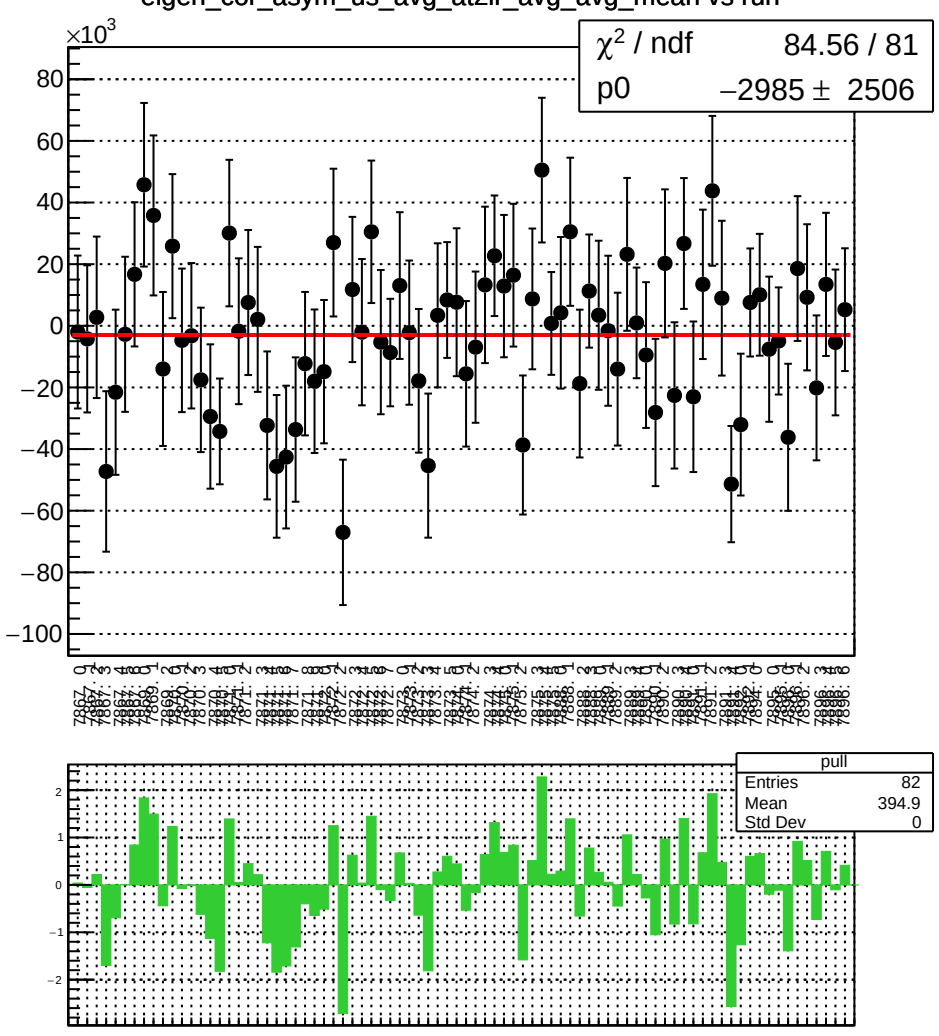

pull1D
Entries 82
Mean 0.006171
Std Dev 1.015

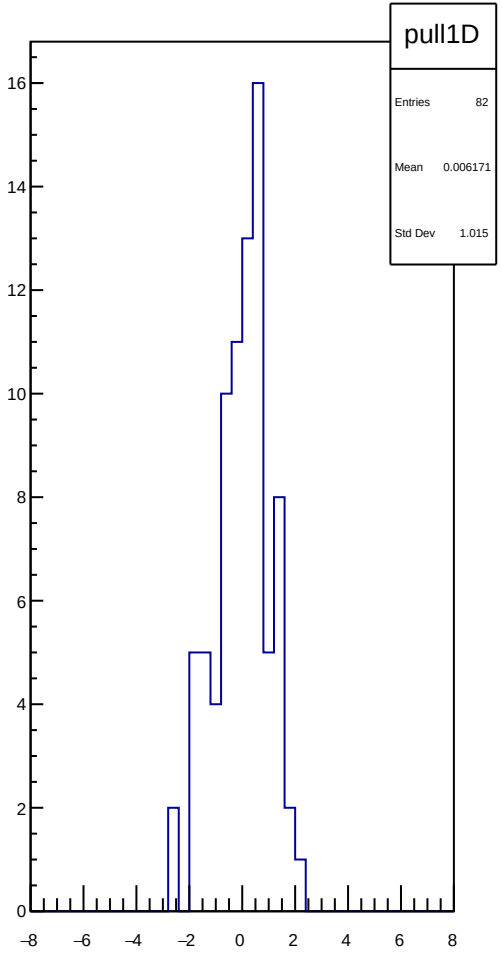

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2602 / 81
p0 2262 ± 1.772
2700
2600
2500
2400
2300
2200
2100

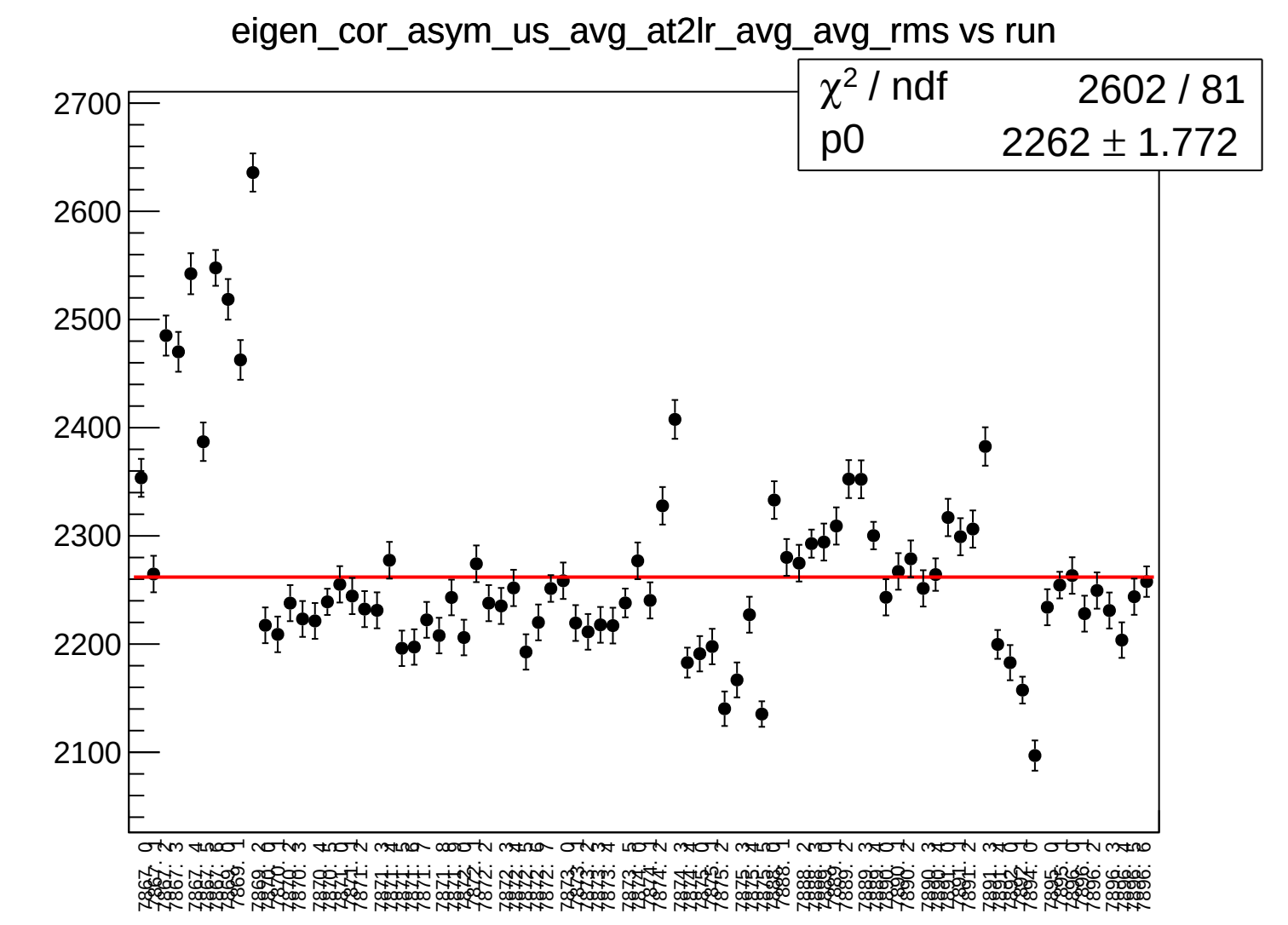

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.21 / 81
p0 7335 ± 1.552e+04
pull
Entries 82
Mean −110.6
Std Dev 0

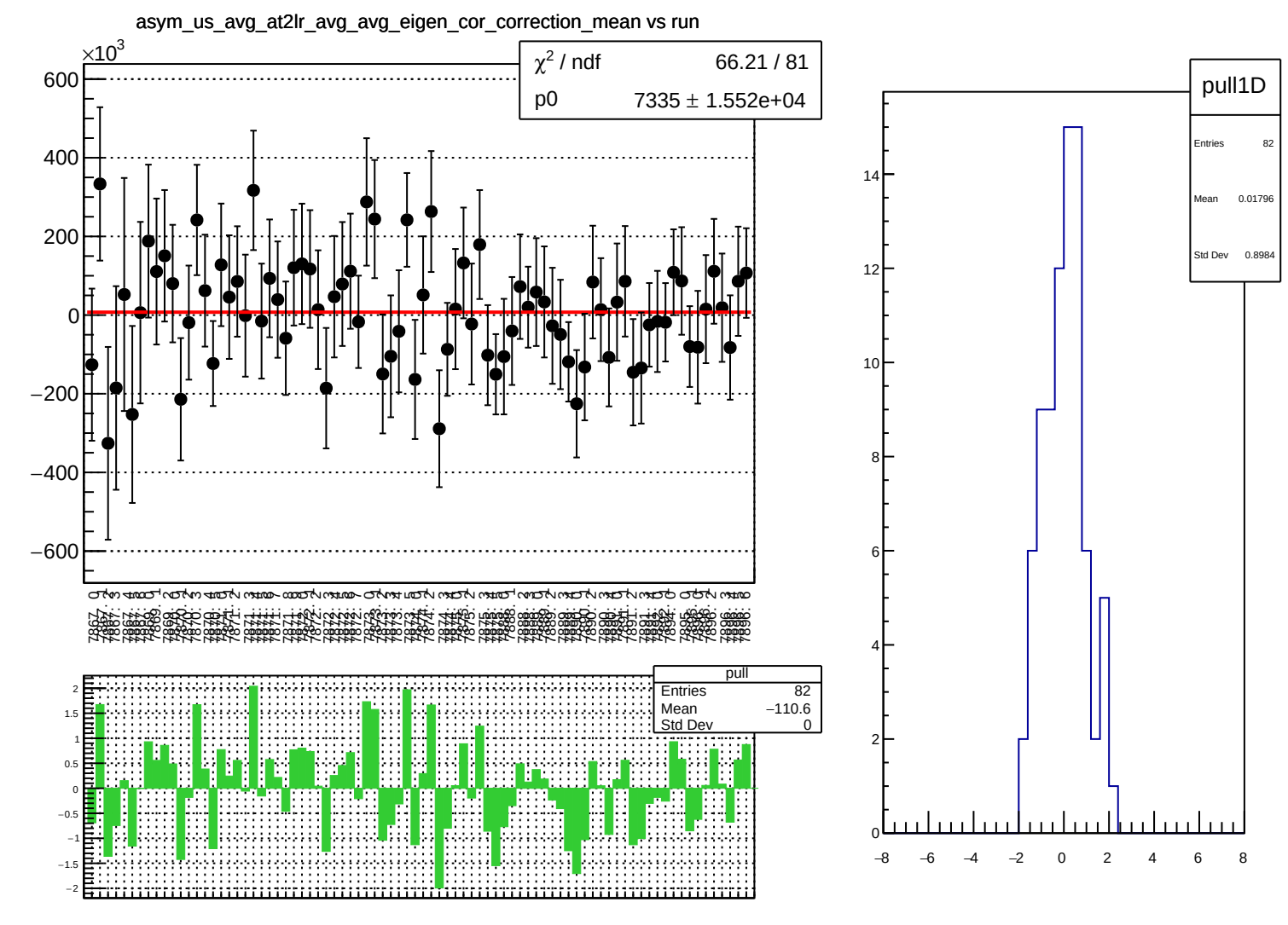

pull1D
Entries 82
Mean 0.01796
Std Dev 0.8984

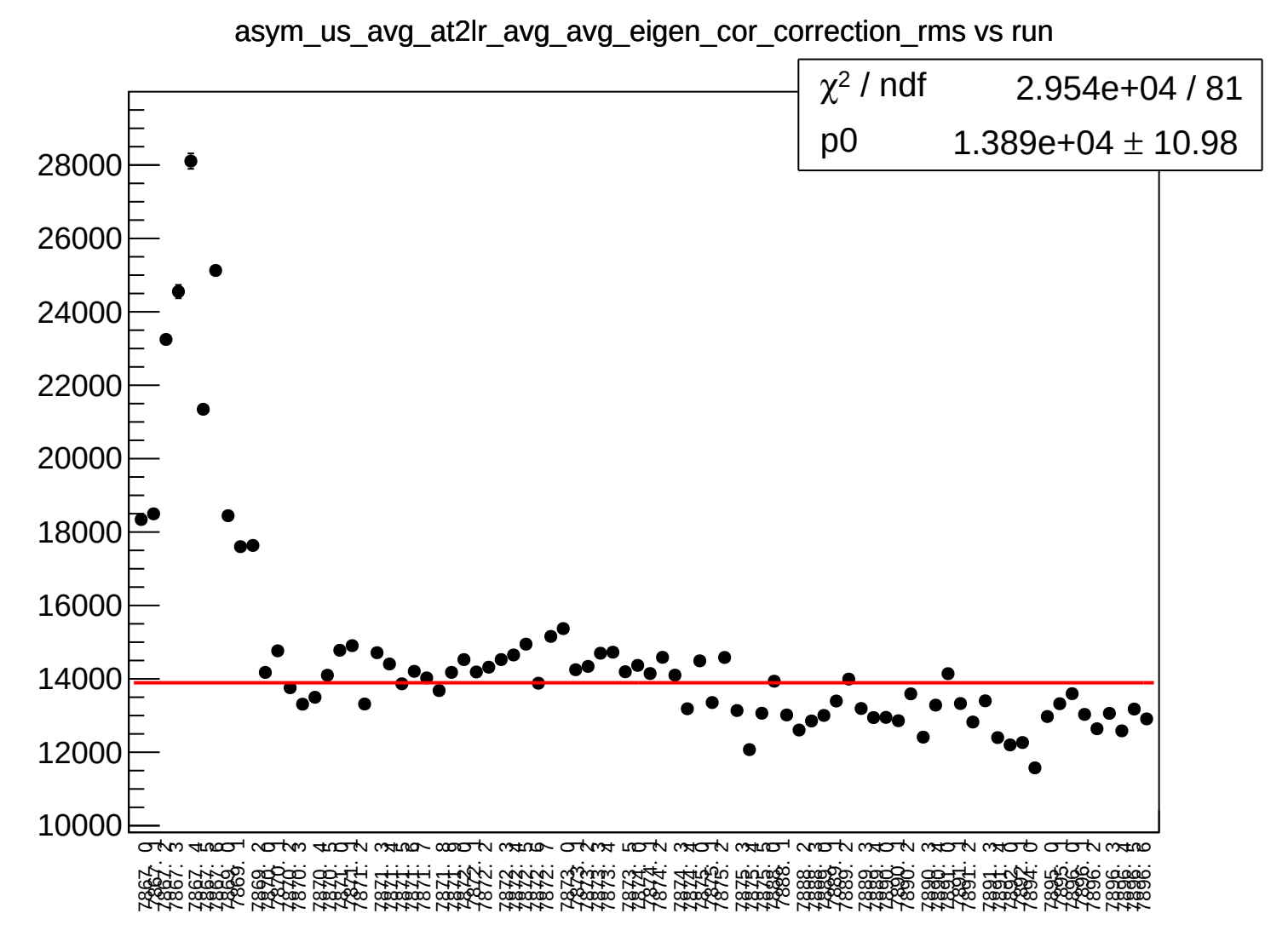

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.954e+04 / 81
p0 1.389e+04 ± 10.98
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000

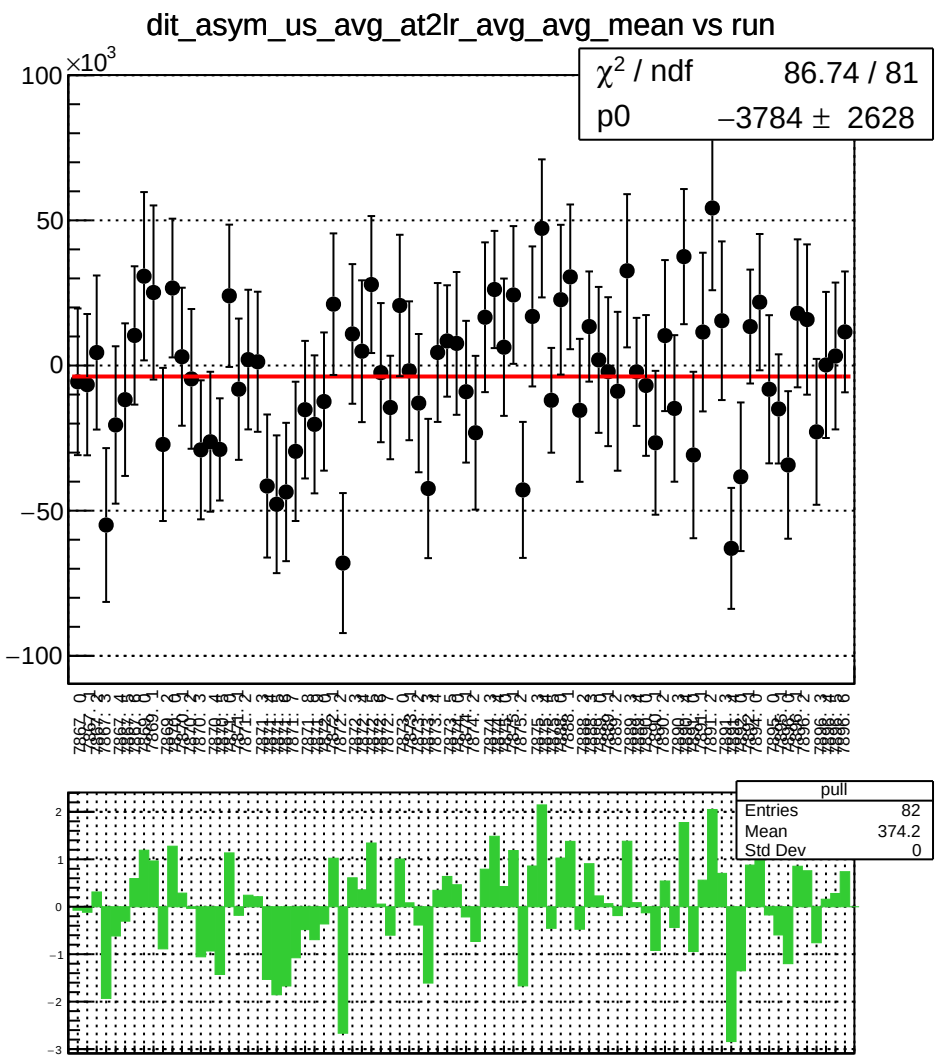

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.56 / 81
p0 −2985 ± 2506
pull
Entries 82
Mean 394.9
Std Dev 0

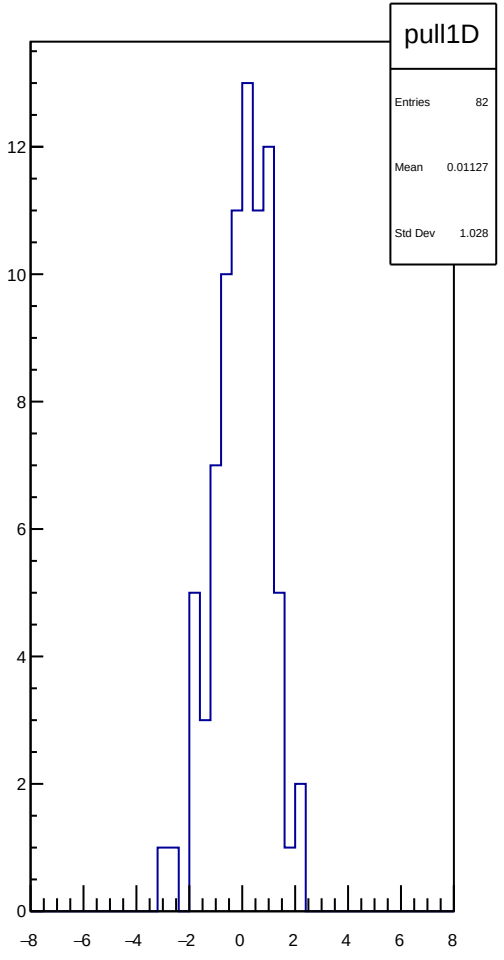

pull1D
Entries 82
Mean 0.006171
Std Dev 1.015

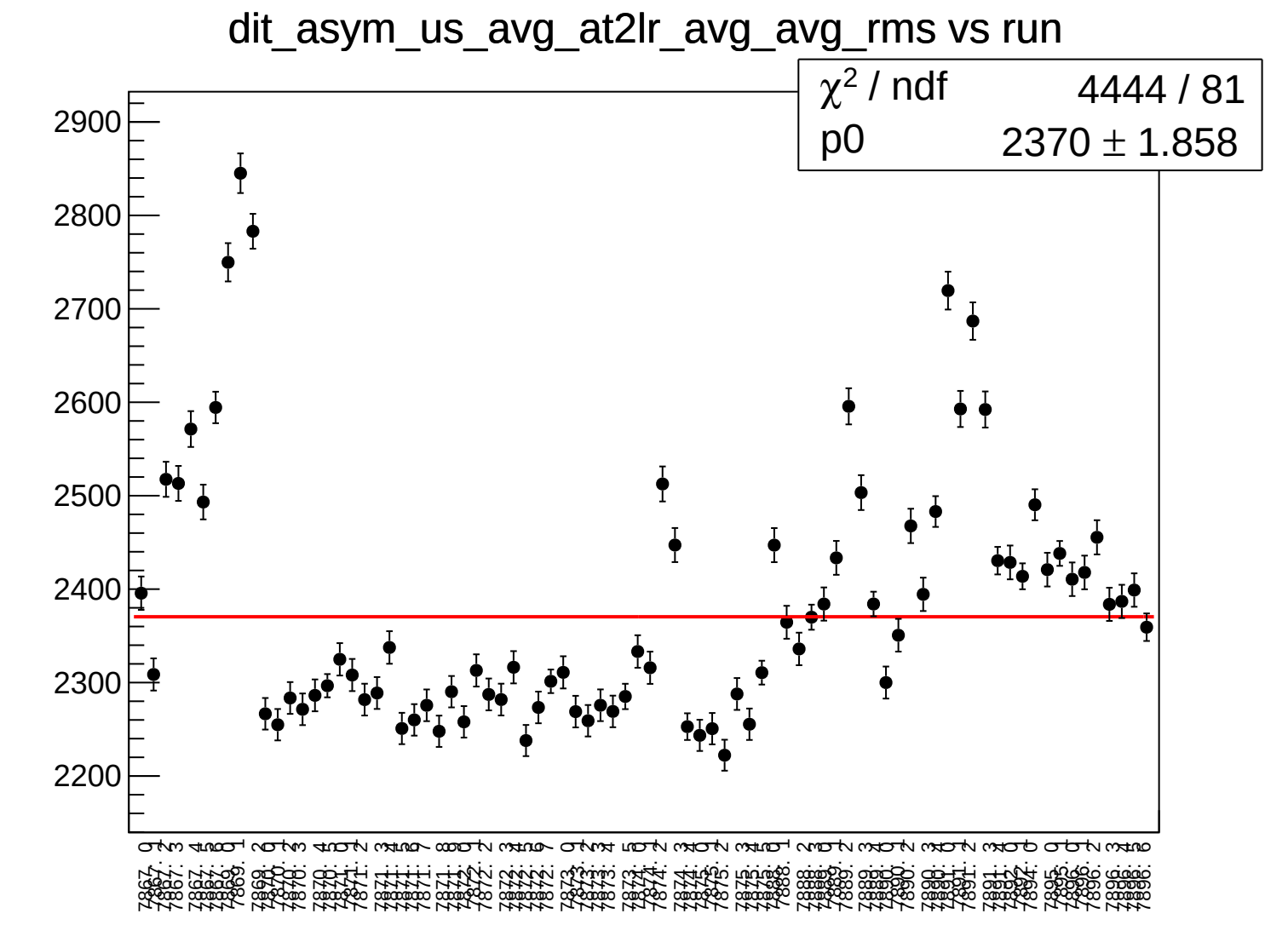

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2602 / 81
p0 2262 ± 1.772
2700
2600
2500
2400
2300
2200
2100

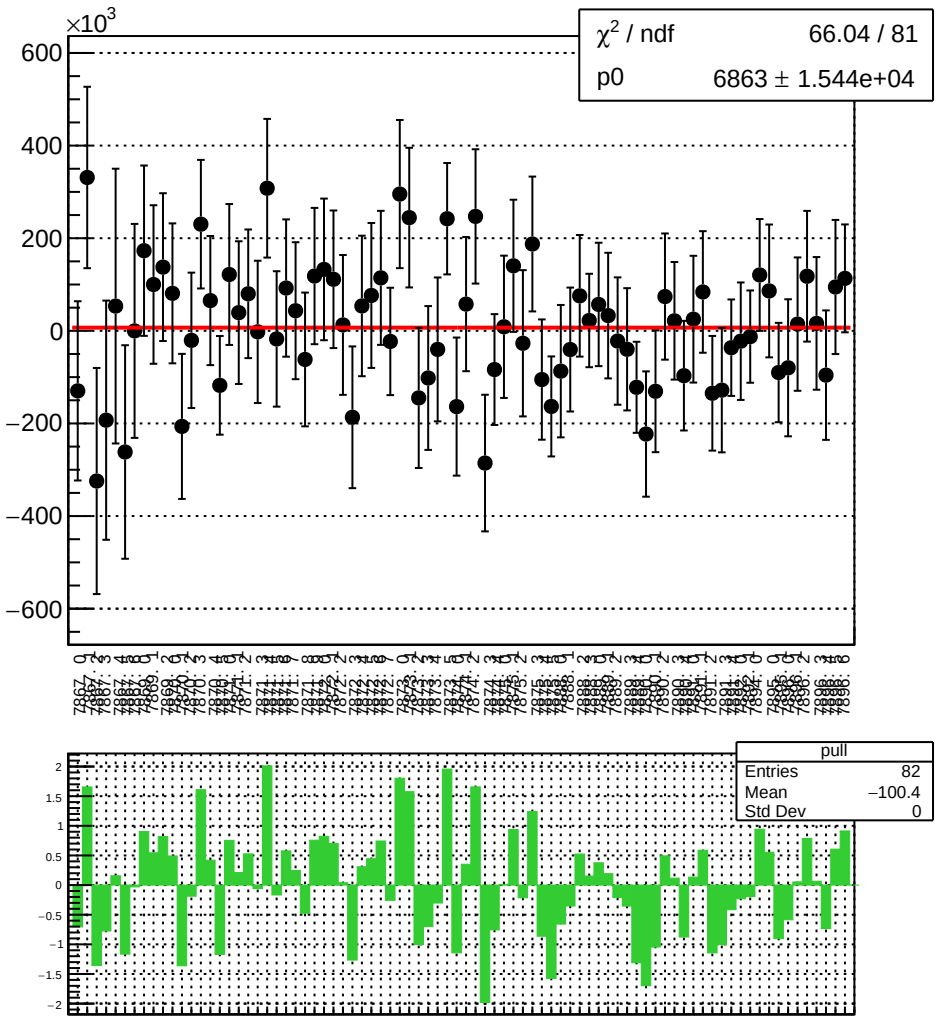

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.21 / 81
p0 7335 ± 1.552e+04
pull
Entries 82
Mean −110.6
Std Dev 0
pull1D
Entries 82
Mean 0.01796
Std Dev 0.8984

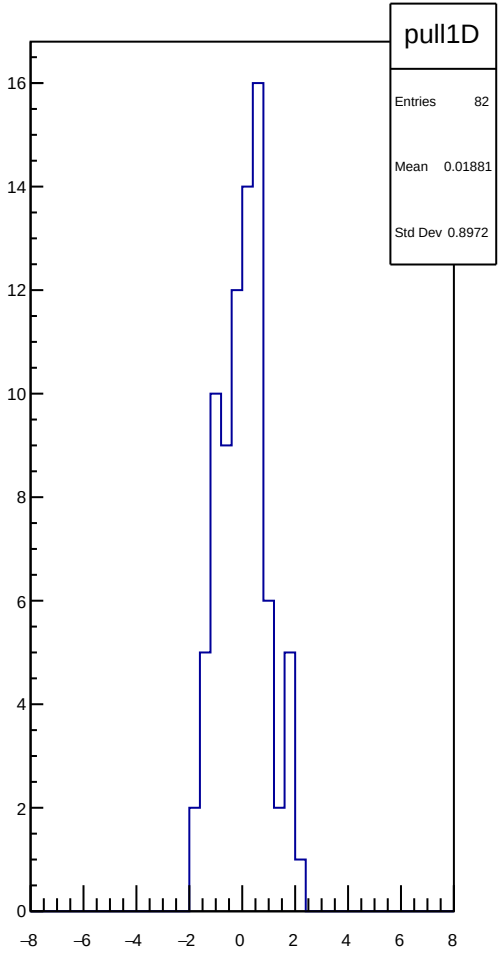

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.954e+04 / 81
p0 1.389e+04 ± 10.98
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000

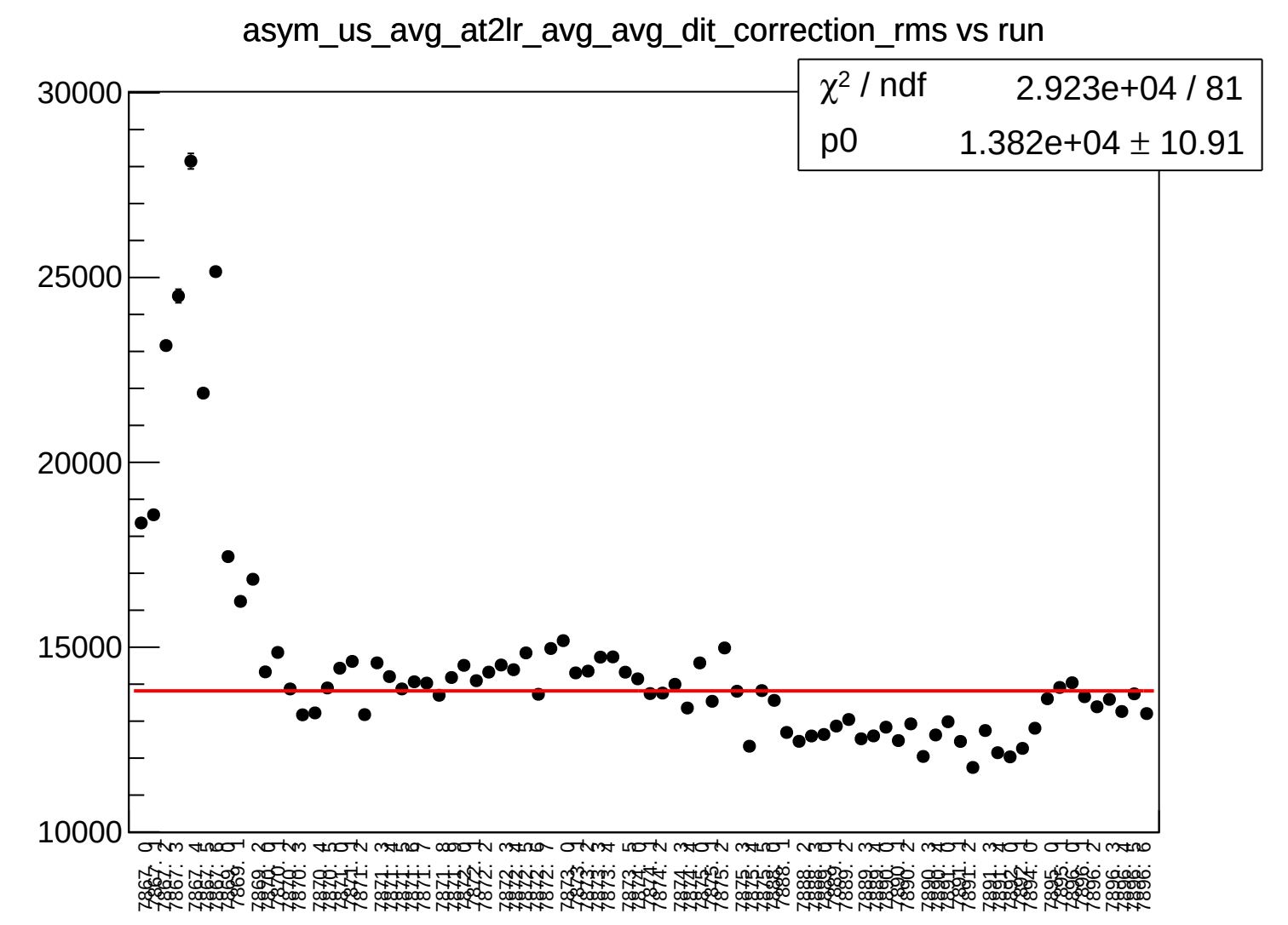

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ^2 / ndf 86.74 / 81
p0 −3784 ± 2628
×10^3
100
50
0
−50
−100
pull
Entries 82
Mean 374.2
Std Dev 0
2
1
0
−1
−2
−3

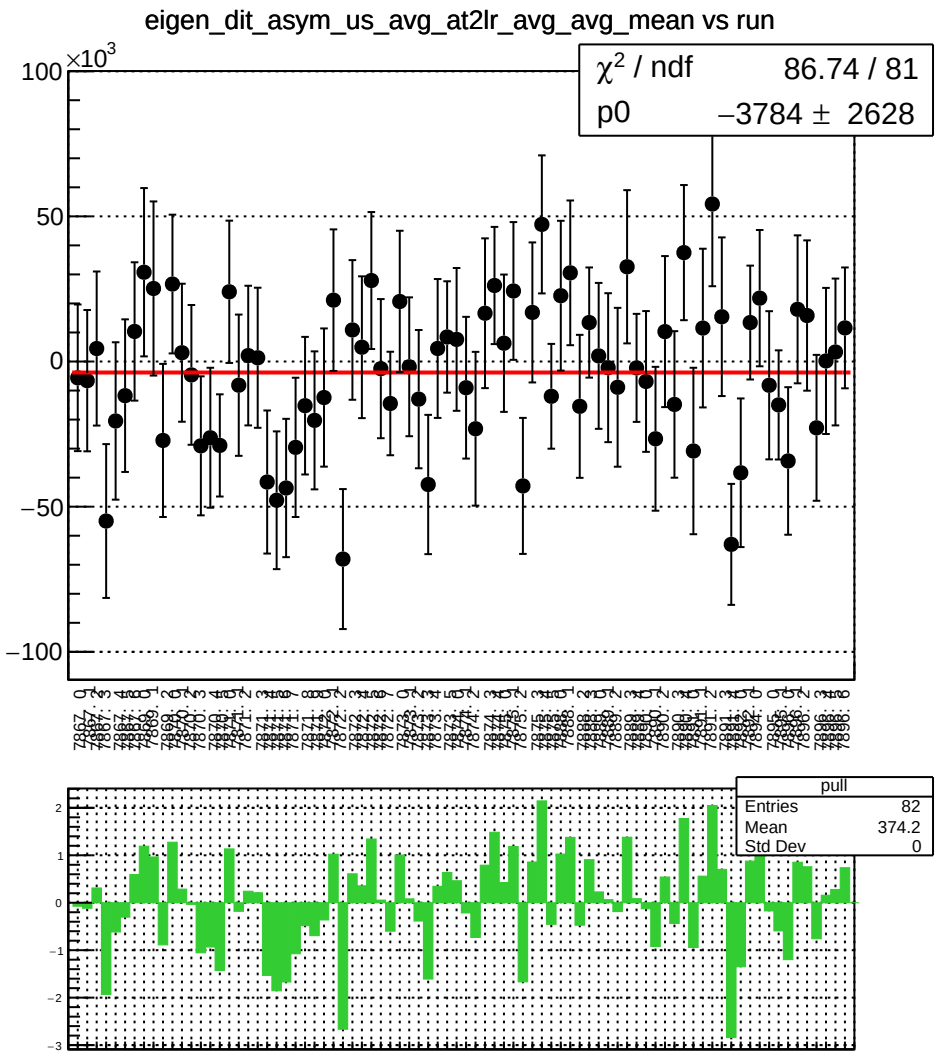

pull1D
Entries 82
Mean 0.01127
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

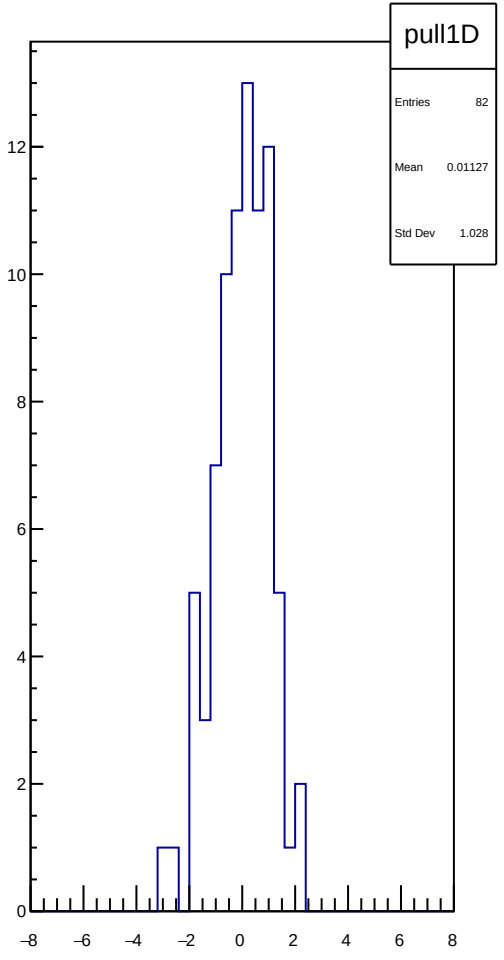

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4444 / 81
p0 2370 ± 1.858
2900
2800
2700
2600
2500
2400
2300
2200

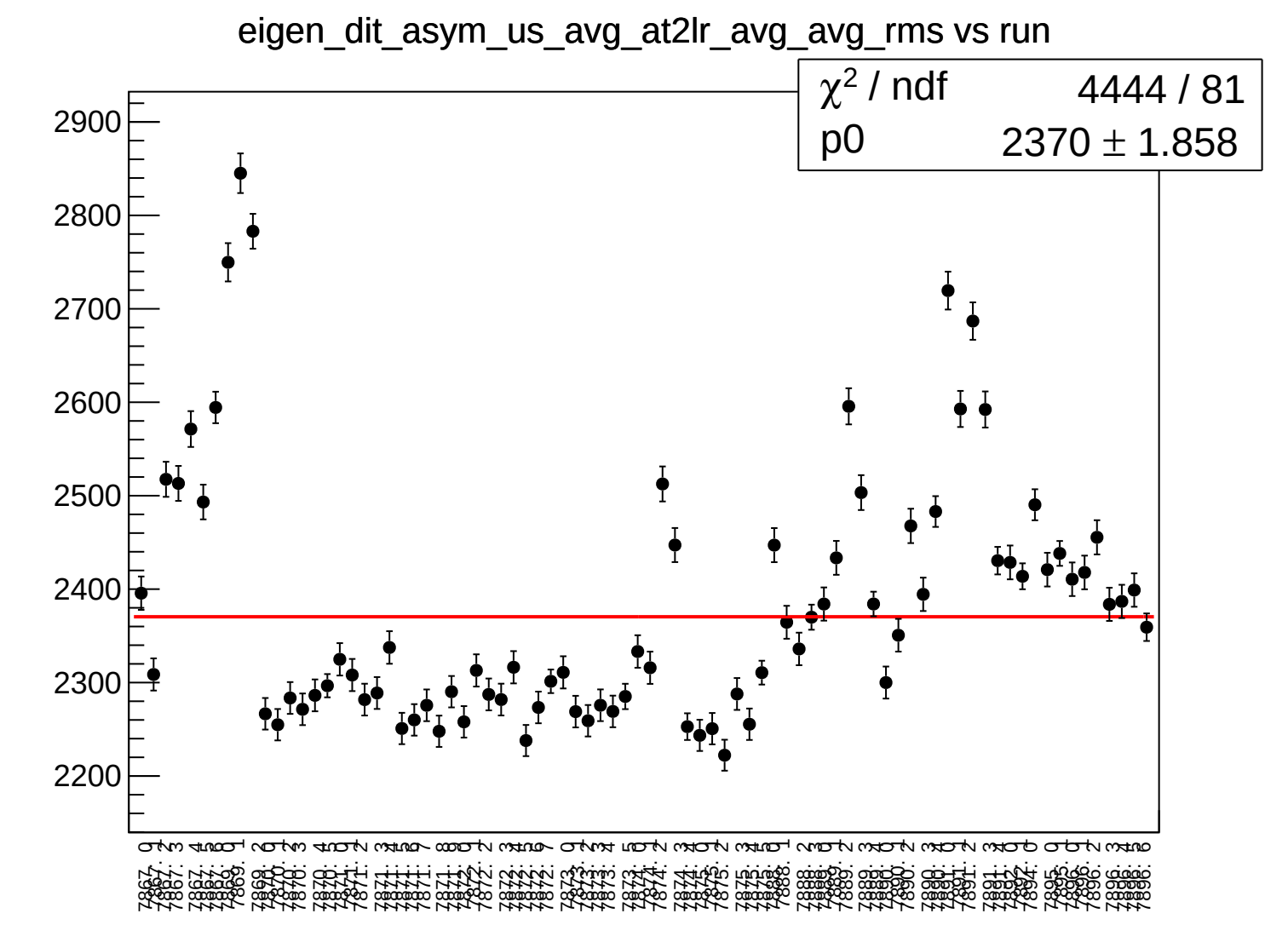

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 66.04 / 81
p0 6863 ± 1.544e+04
pull
Entries 82
Mean −100.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

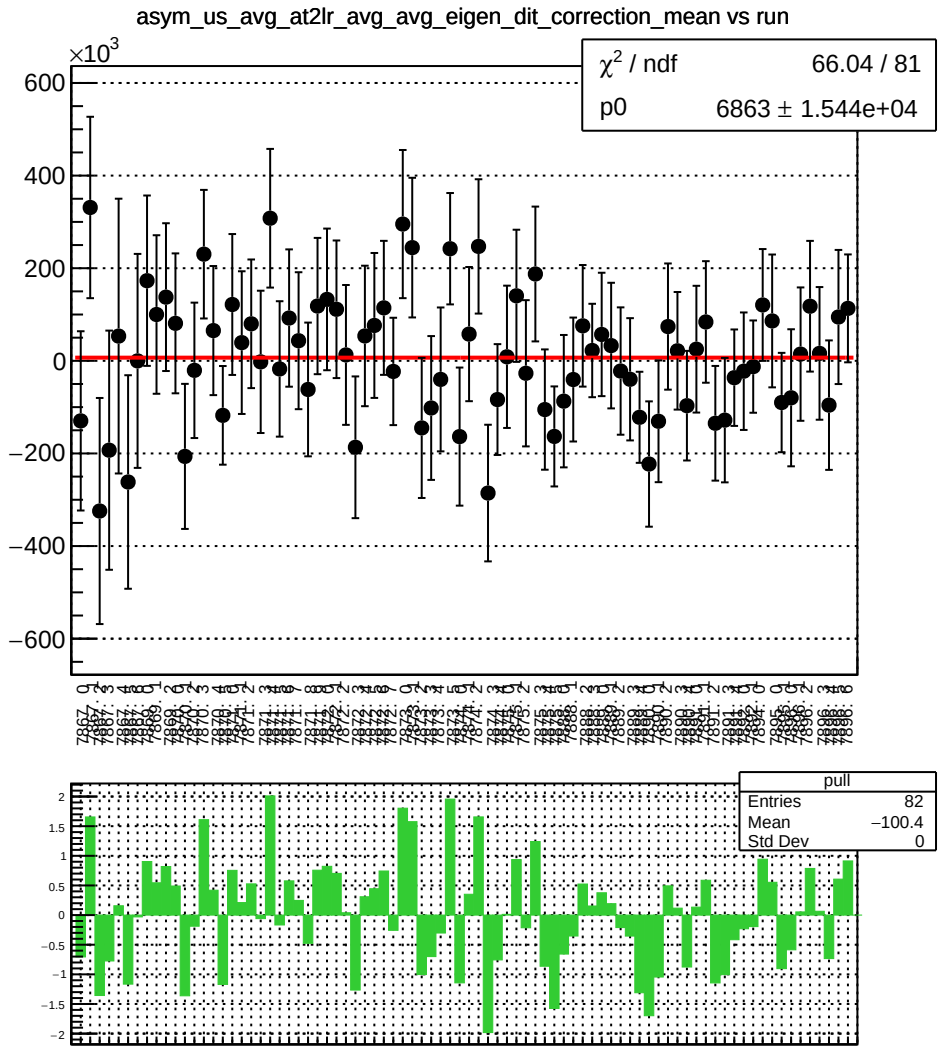

pull1D
Entries 82
Mean 0.01881
Std Dev 0.8972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

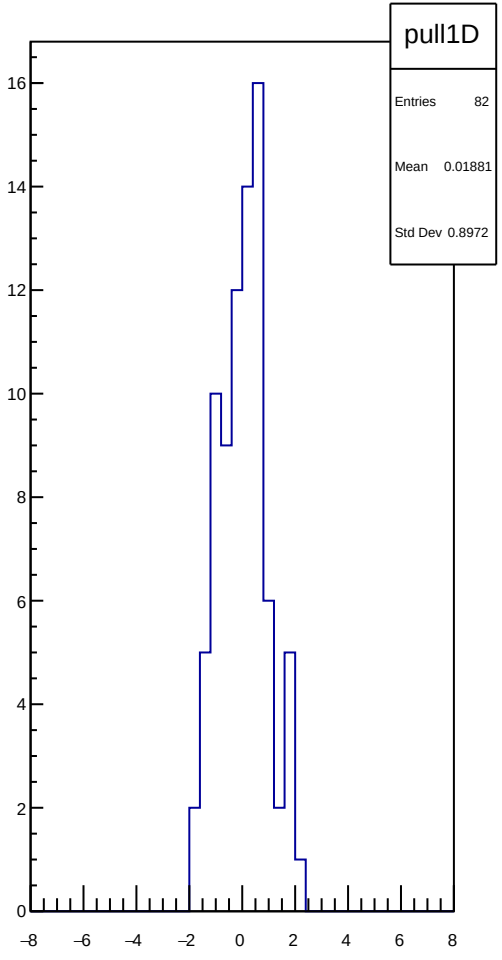

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.923e+04 / 81
p0 1.382e+04 ± 10.91
30000
25000
20000
15000
10000

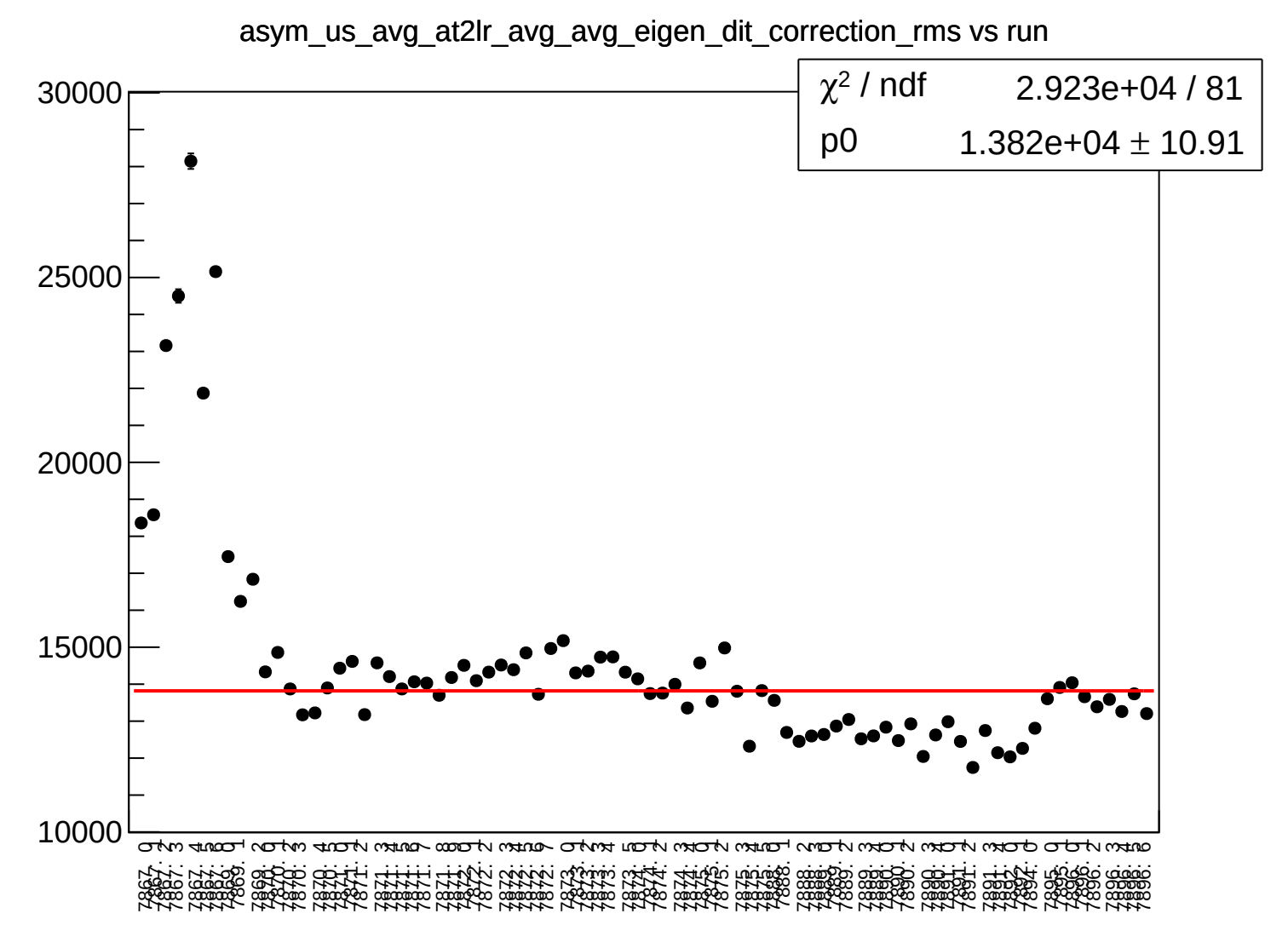

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 86.74 / 81
p0 −3784 ± 2628
×10³
pull
Entries 82
Mean 374.2
Std Dev 0

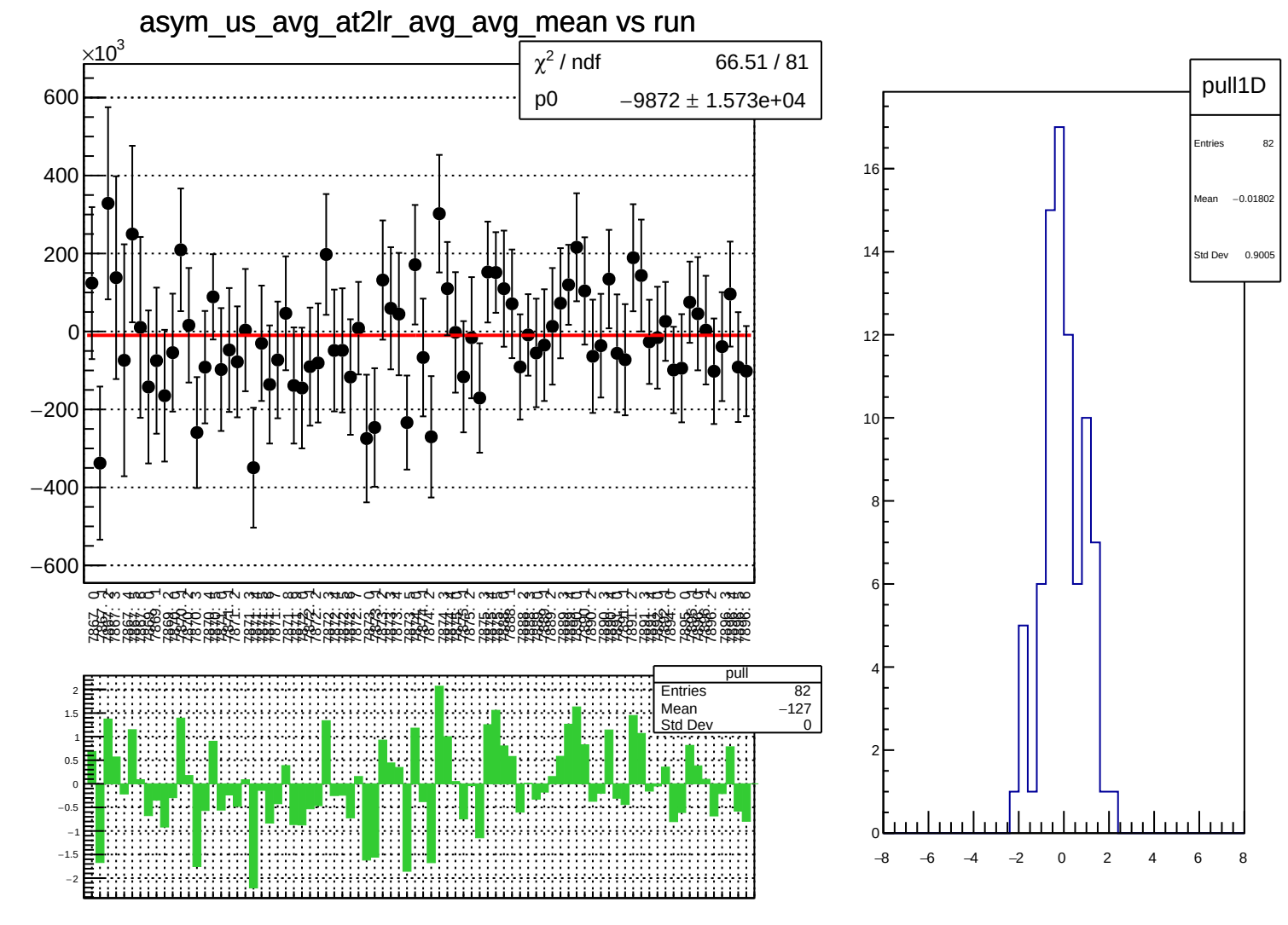

pull1D
Entries 82
Mean 0.01127
Std Dev 1.028

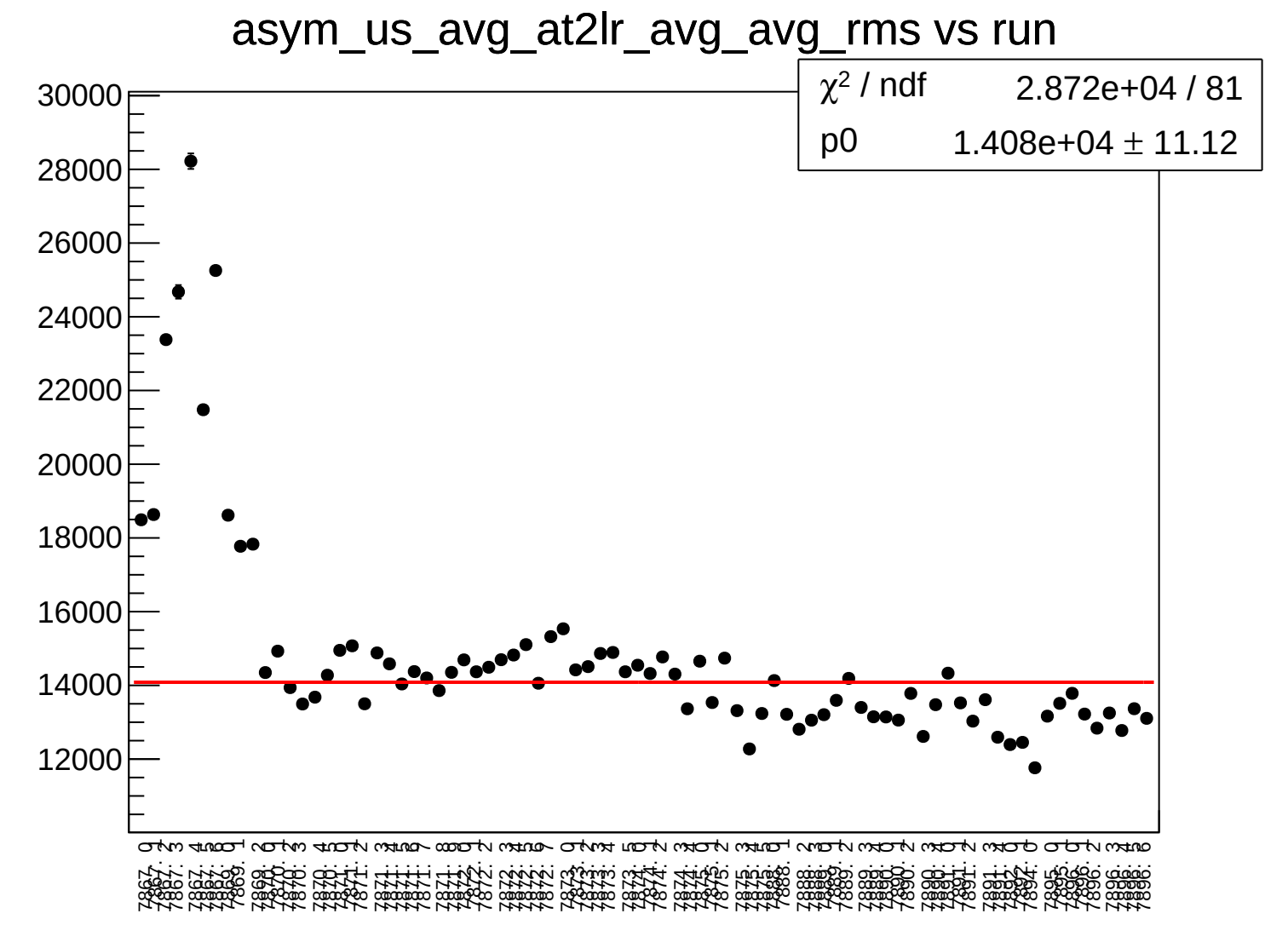

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4444 / 81
p0 2370 ± 1.858
2900
2800
2700
2600
2500
2400
2300
2200

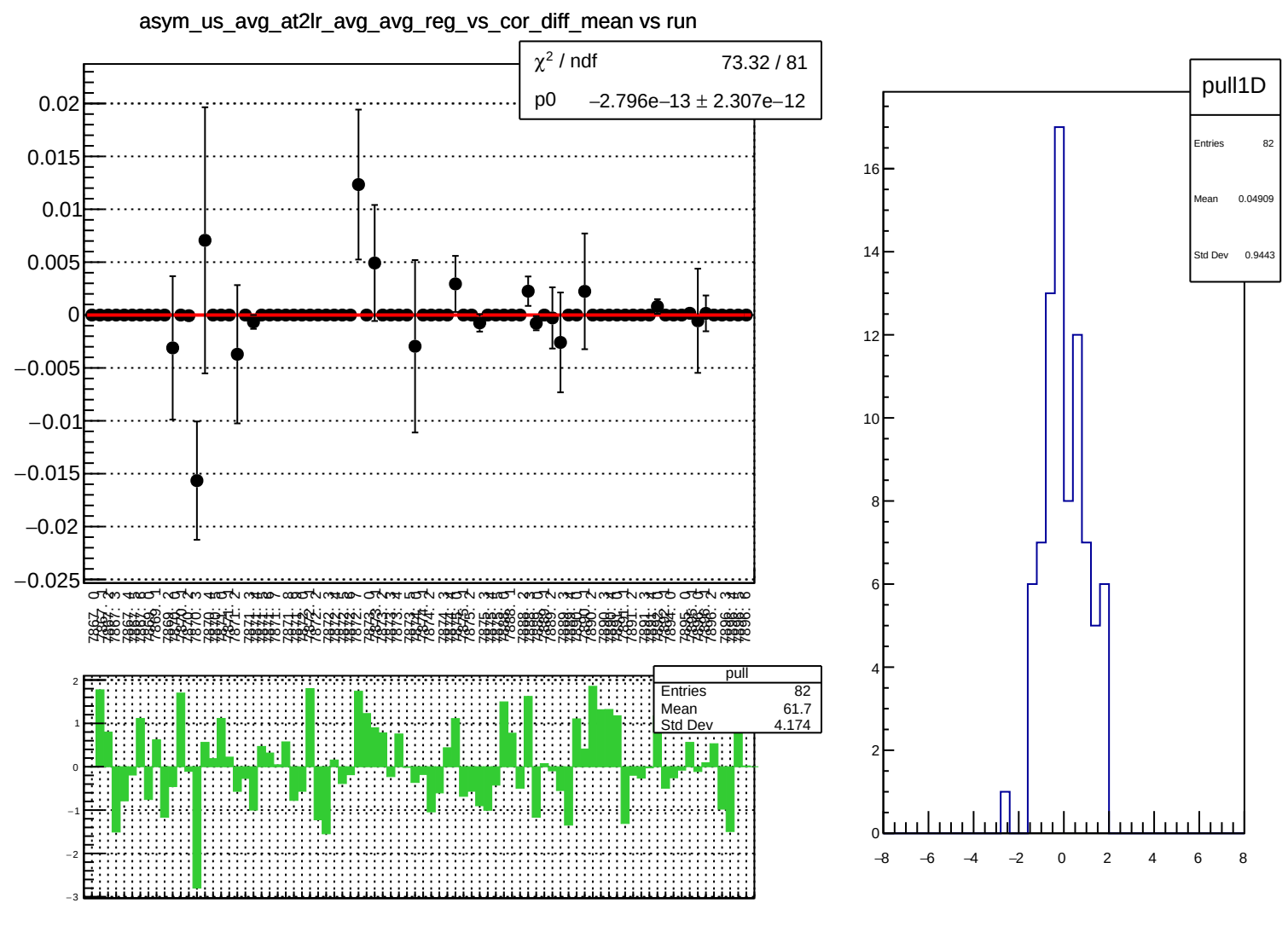

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.04 / 81
p0 6863 ± 1.544e+04
pull
Entries 82
Mean −100.4
Std Dev 0

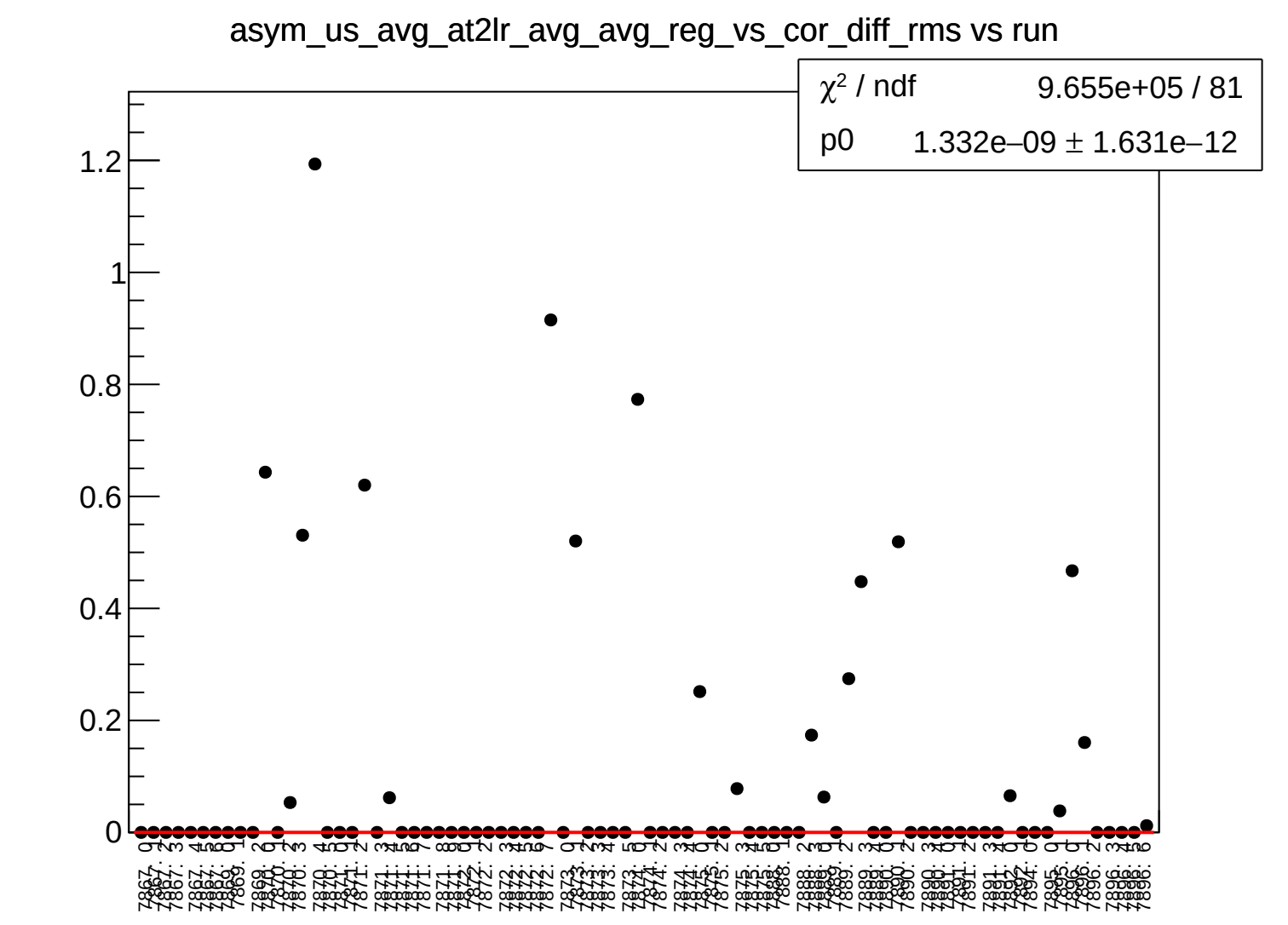

pull1D
Entries 82
Mean 0.01881
Std Dev 0.8972

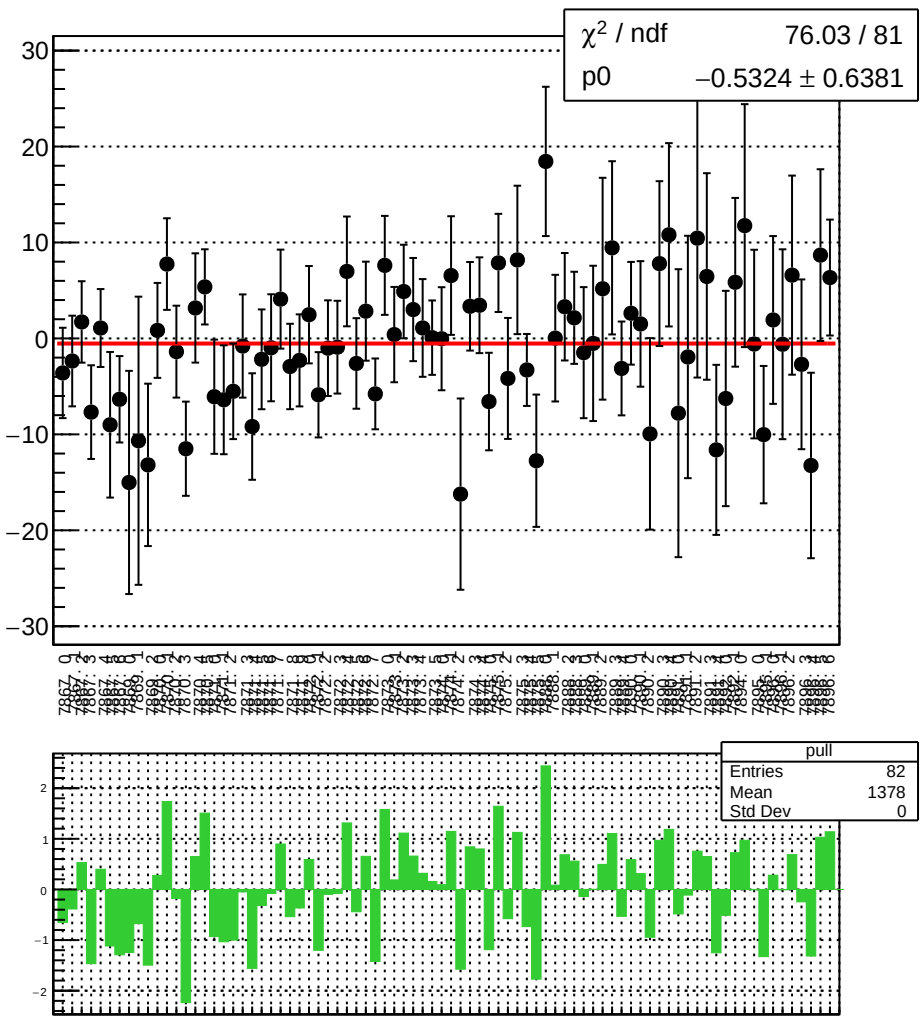

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.923e+04 / 81
p0 1.382e+04 ± 10.91
30000
25000
20000
15000
10000

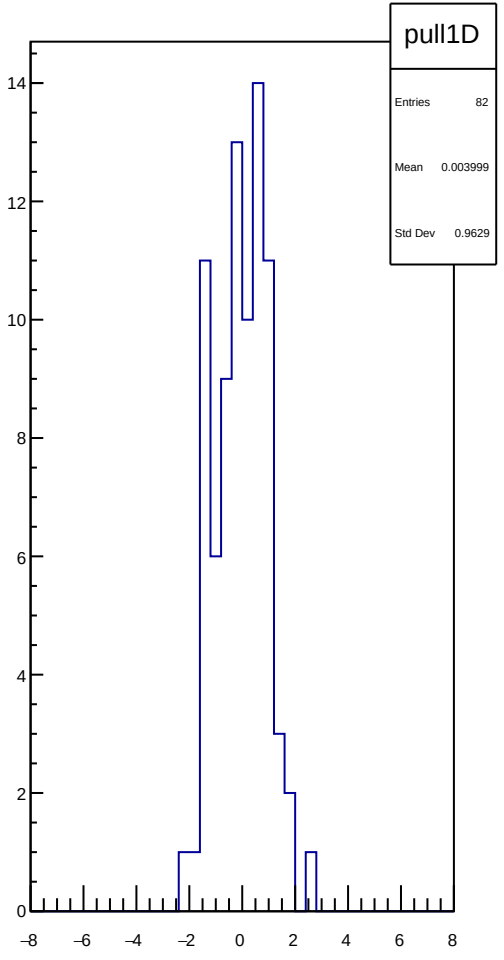

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 66.51 / 81
p0 −9872 ± 1.573e+04
600
400
200
0
−200
−400
−600
pull
Entries 82
Mean −127
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01802
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

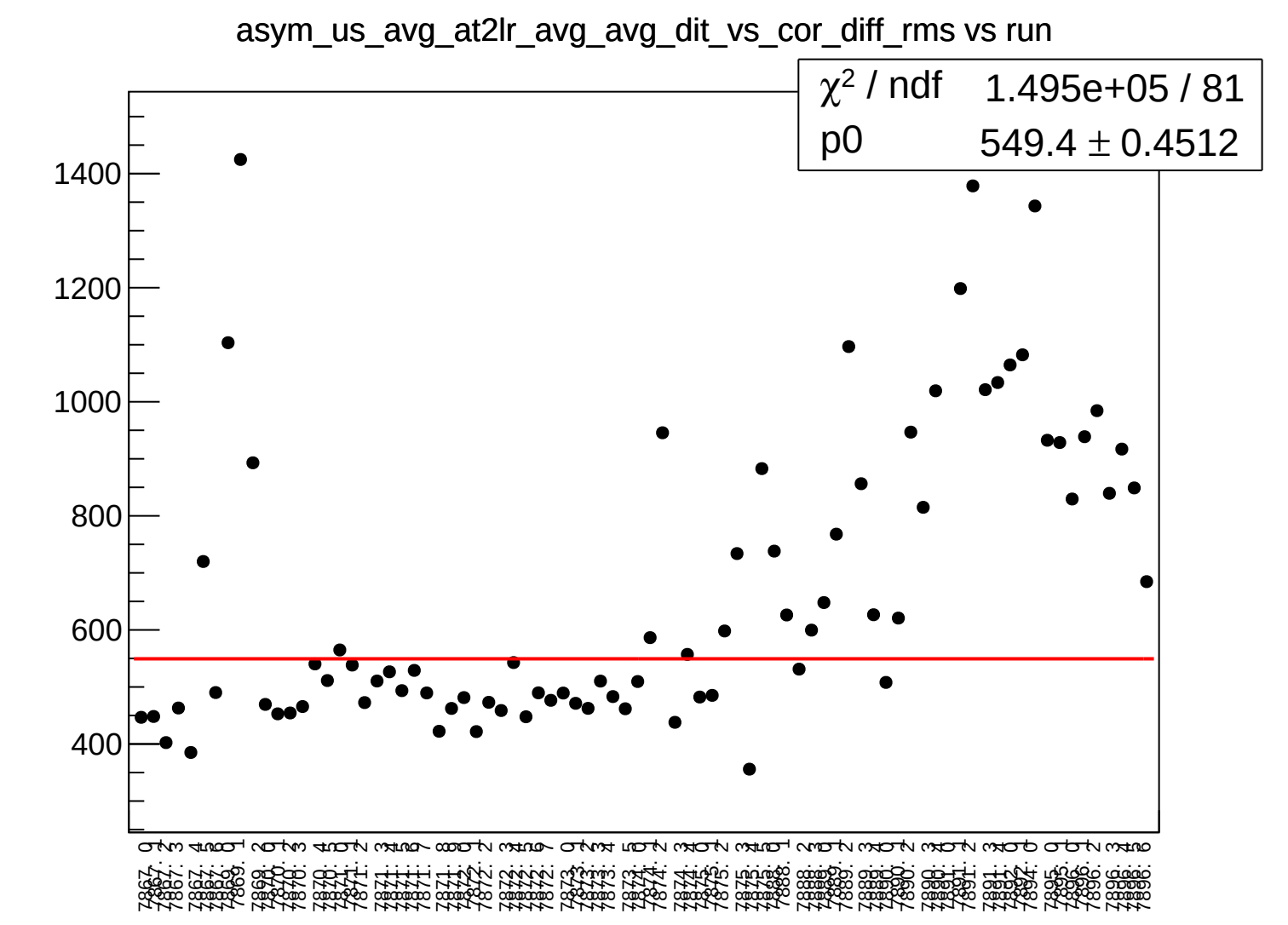

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2.872e+04 / 81
p0 1.408e+04 ± 11.12
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000

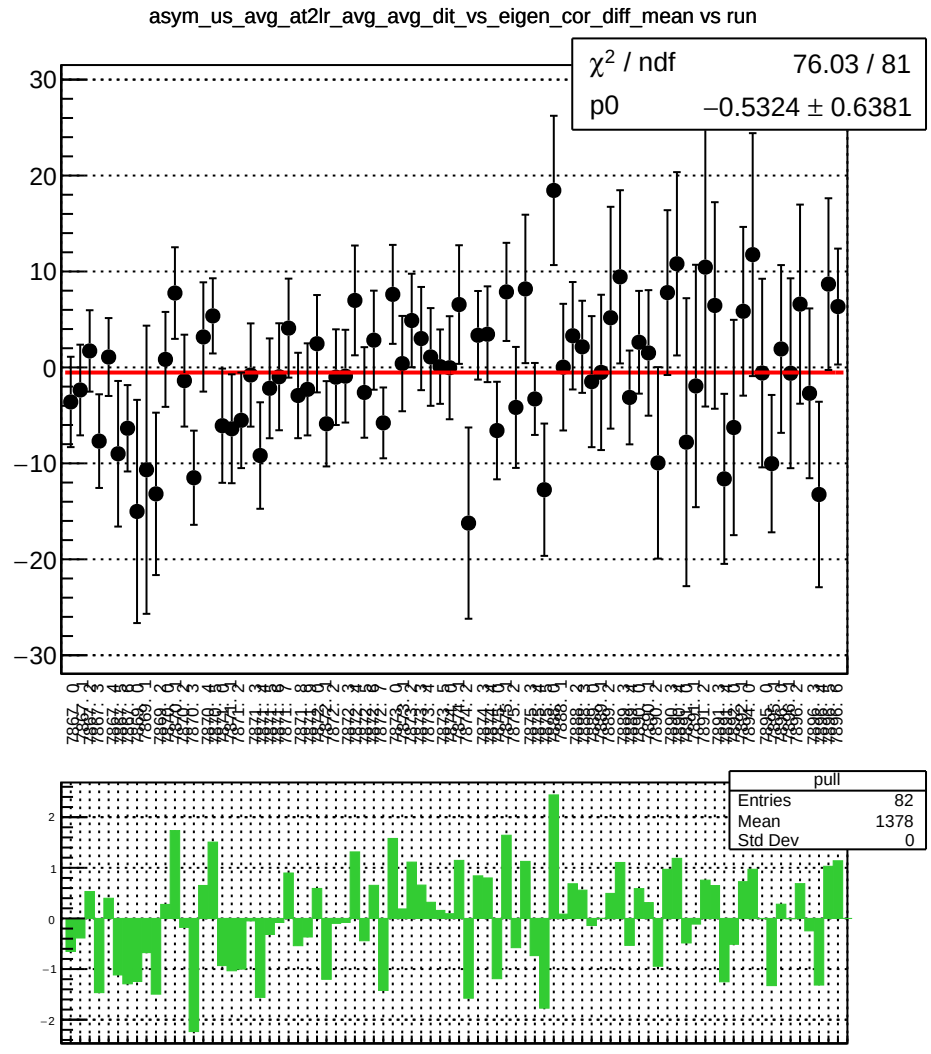

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.32 / 81
p0 −2.796e−13 ± 2.307e−12
pull
Entries 82
Mean 61.7
Std Dev 4.174
pull1D
Entries 82
Mean 0.04909
Std Dev 0.9443

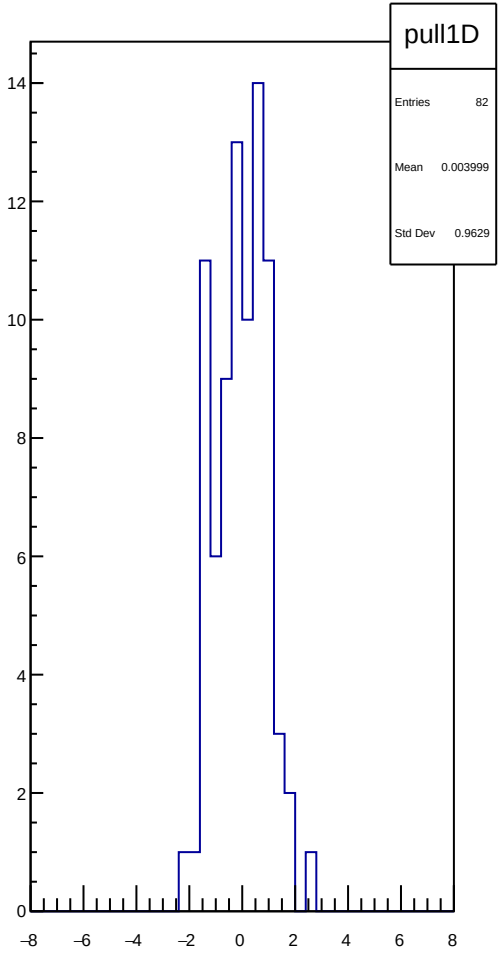

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.655e+05 / 81
p0 1.332e−09 ± 1.631e−12
1.2
1
0.8
0.6
0.4
0.2
0

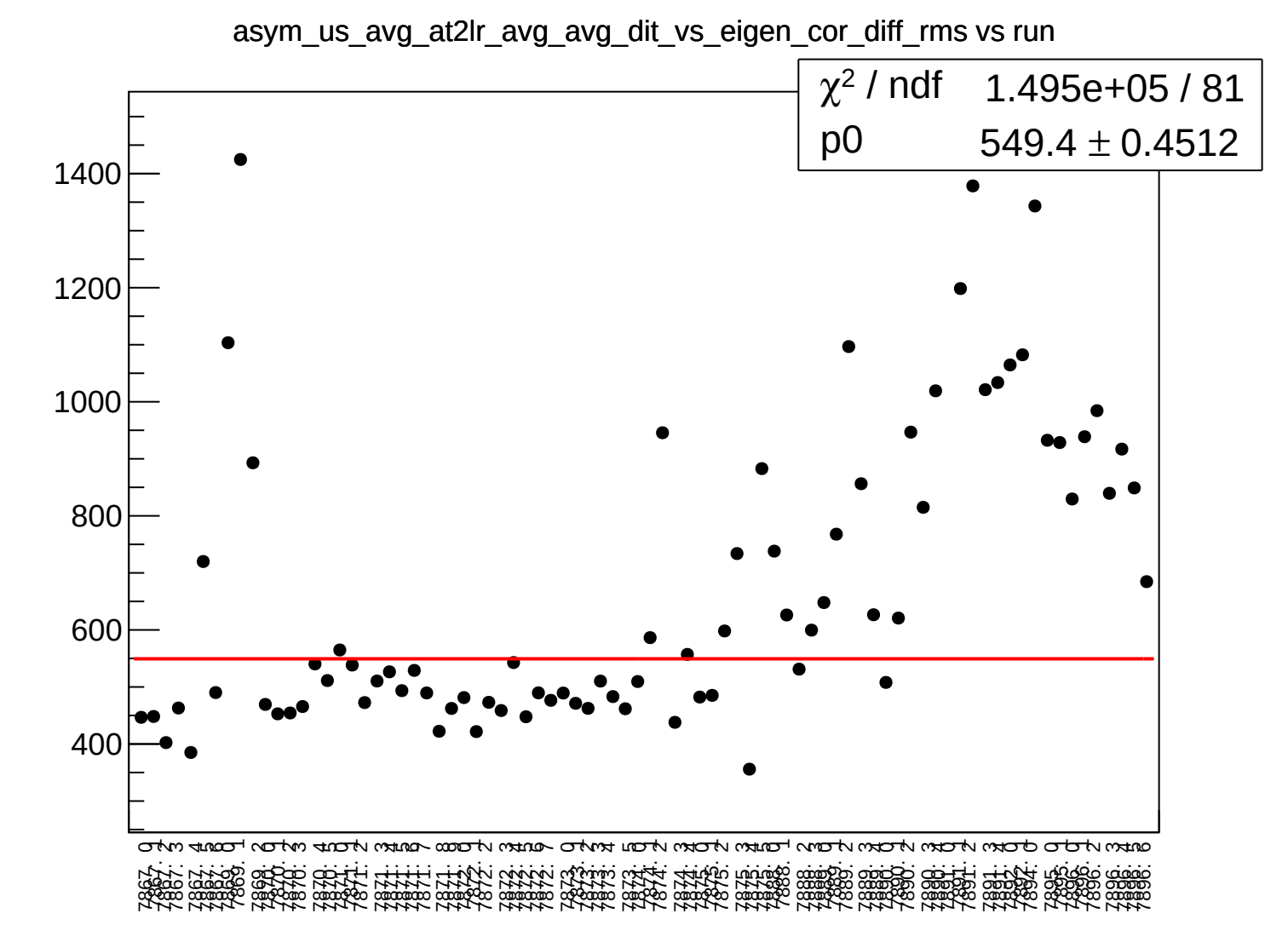

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.03 / 81
p0 −0.5324 ± 0.6381
pull
Entries 82
Mean 1378
Std Dev 0

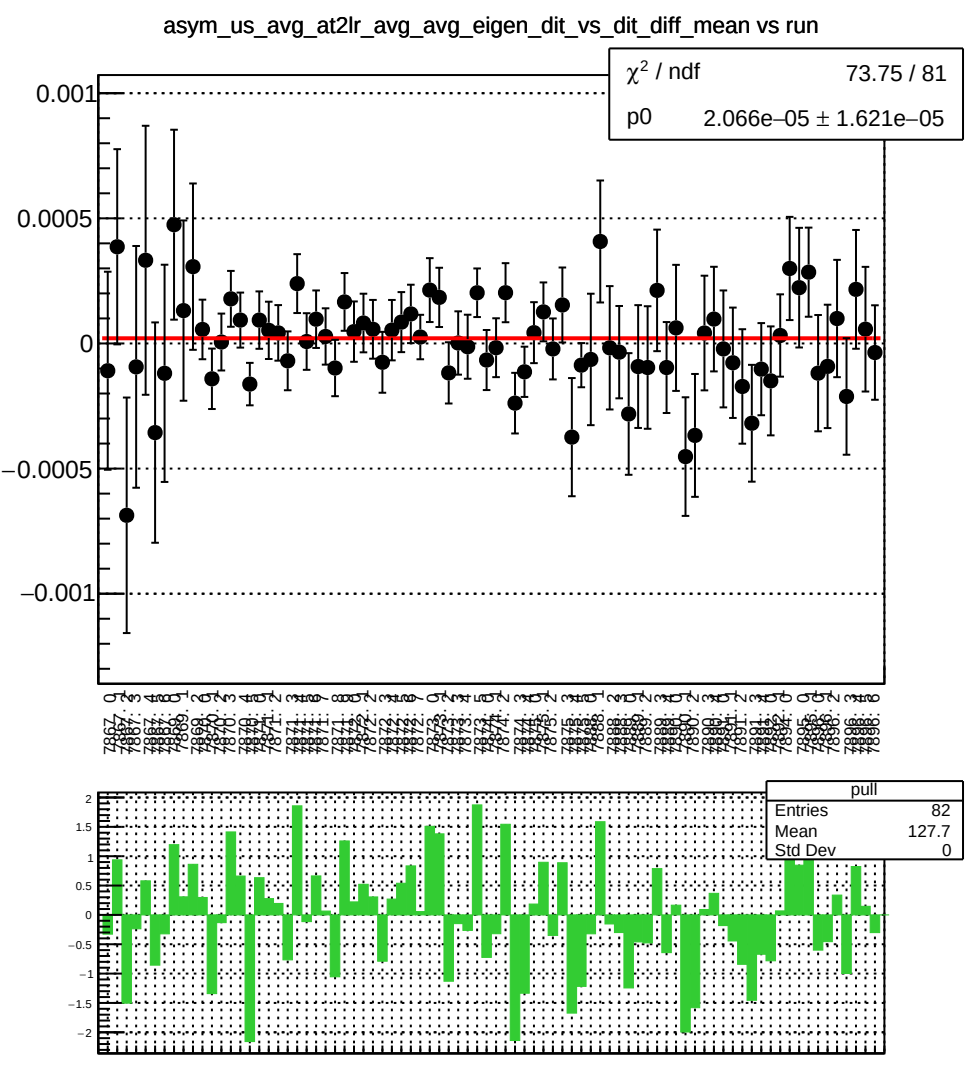

pull1D
Entries 82
Mean 0.003999
Std Dev 0.9629

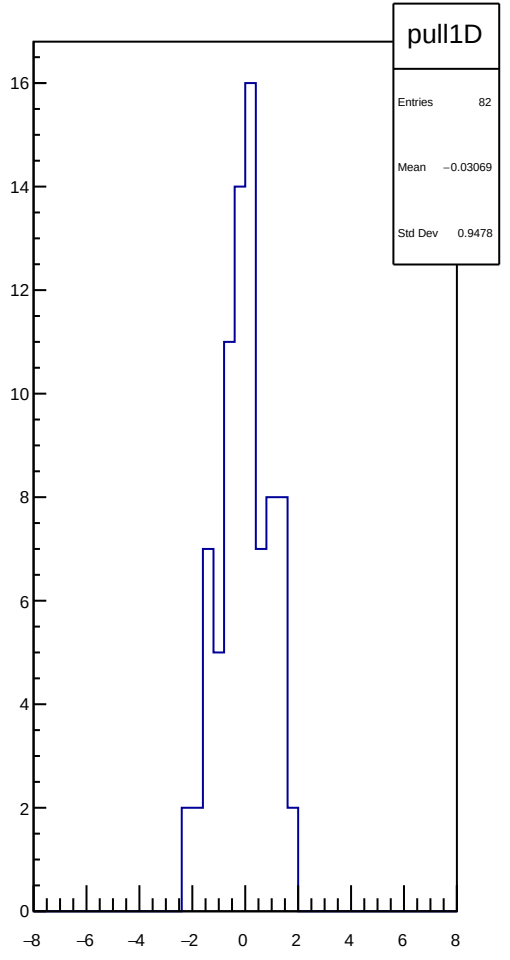

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 81
p0 549.4 ± 0.4512
1400
1200
1000
800
600
400

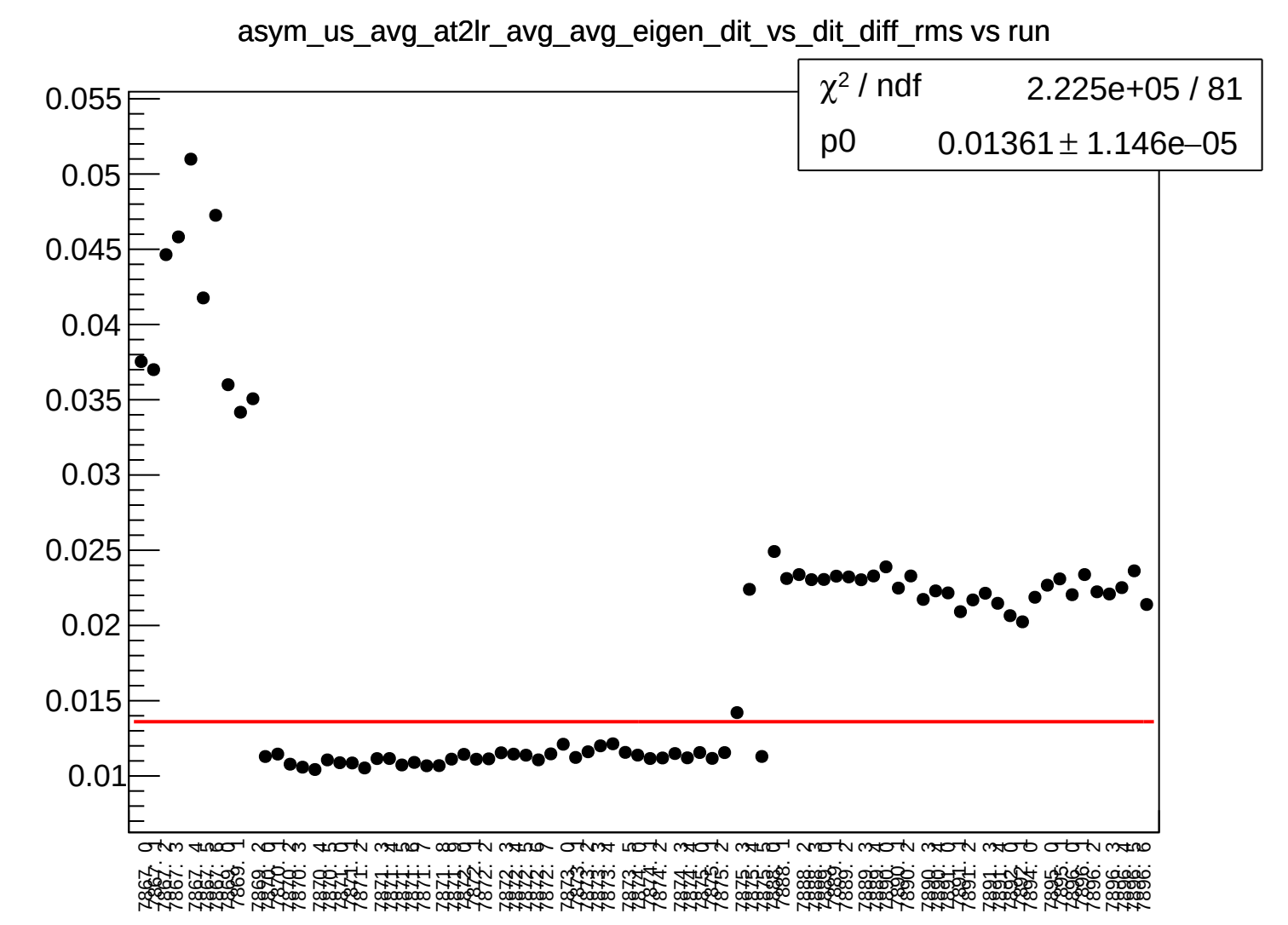

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.03 / 81
p0 −0.5324 ± 0.6381
pull
Entries 82
Mean 1378
Std Dev 0

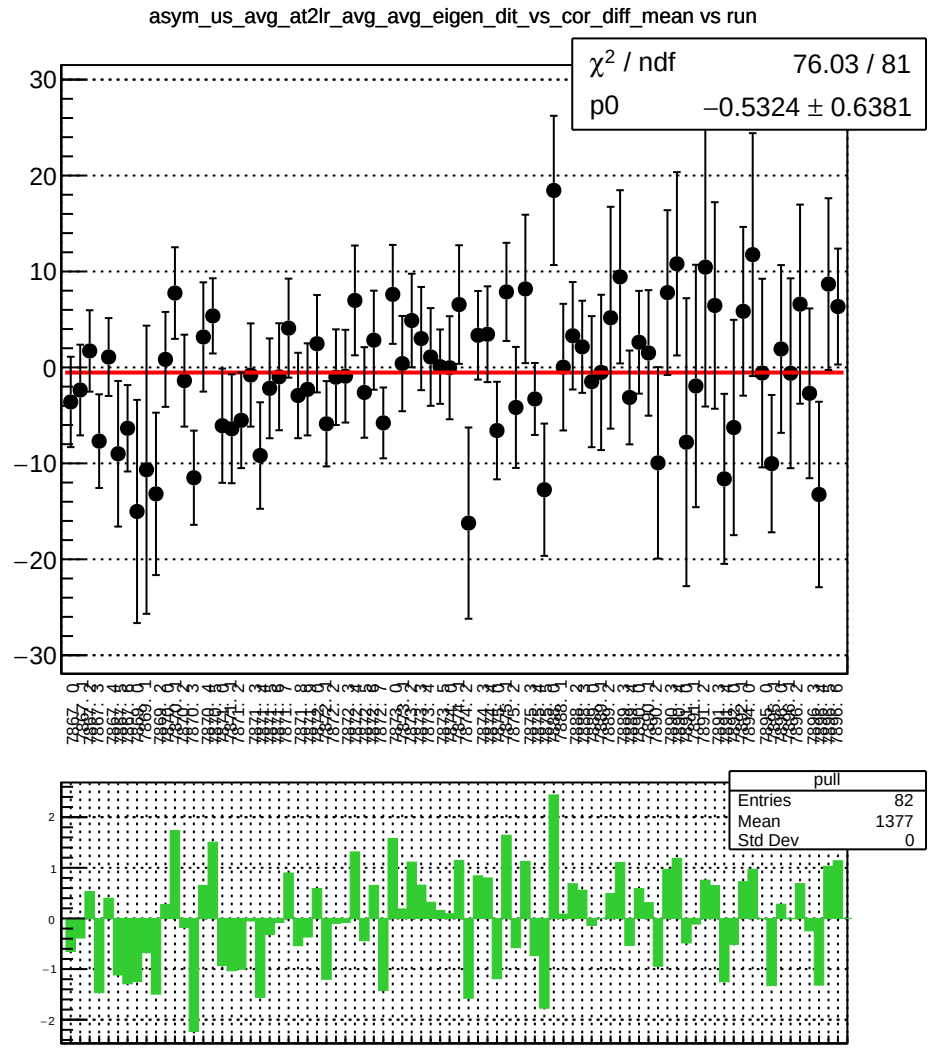

pull1D
Entries 82
Mean 0.003999
Std Dev 0.9629

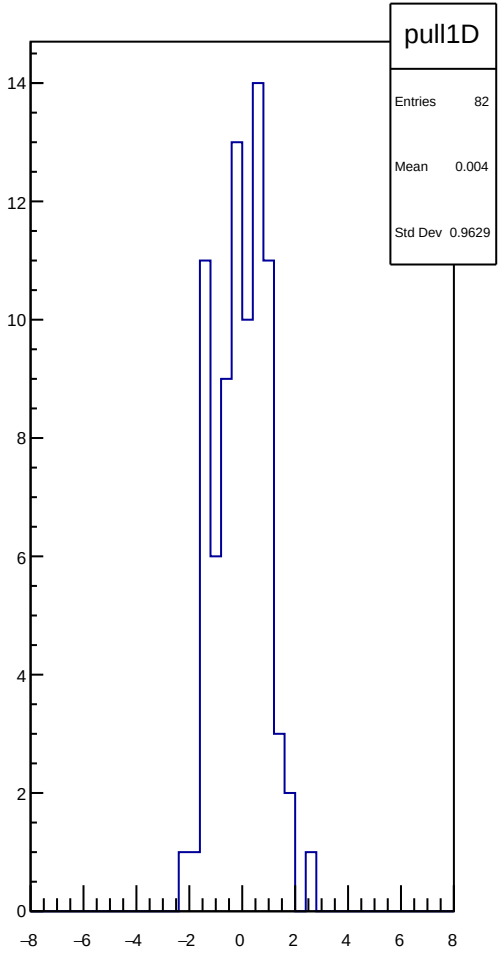

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 81
p0 549.4 ± 0.4512
1400
1200
1000
800
600
400

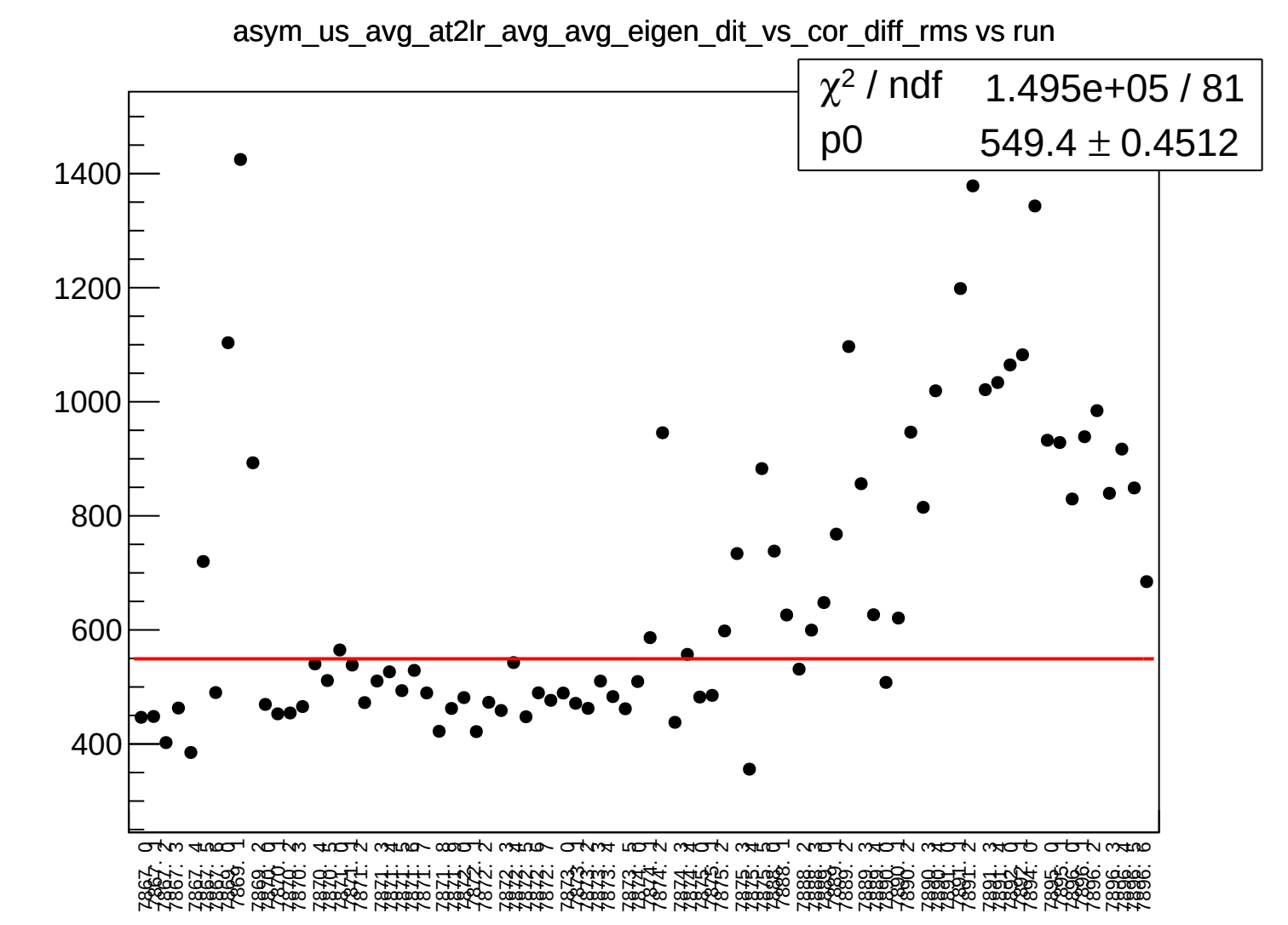

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.75 / 81
p0 2.066e−05 ± 1.621e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean 127.7
Std Dev 0

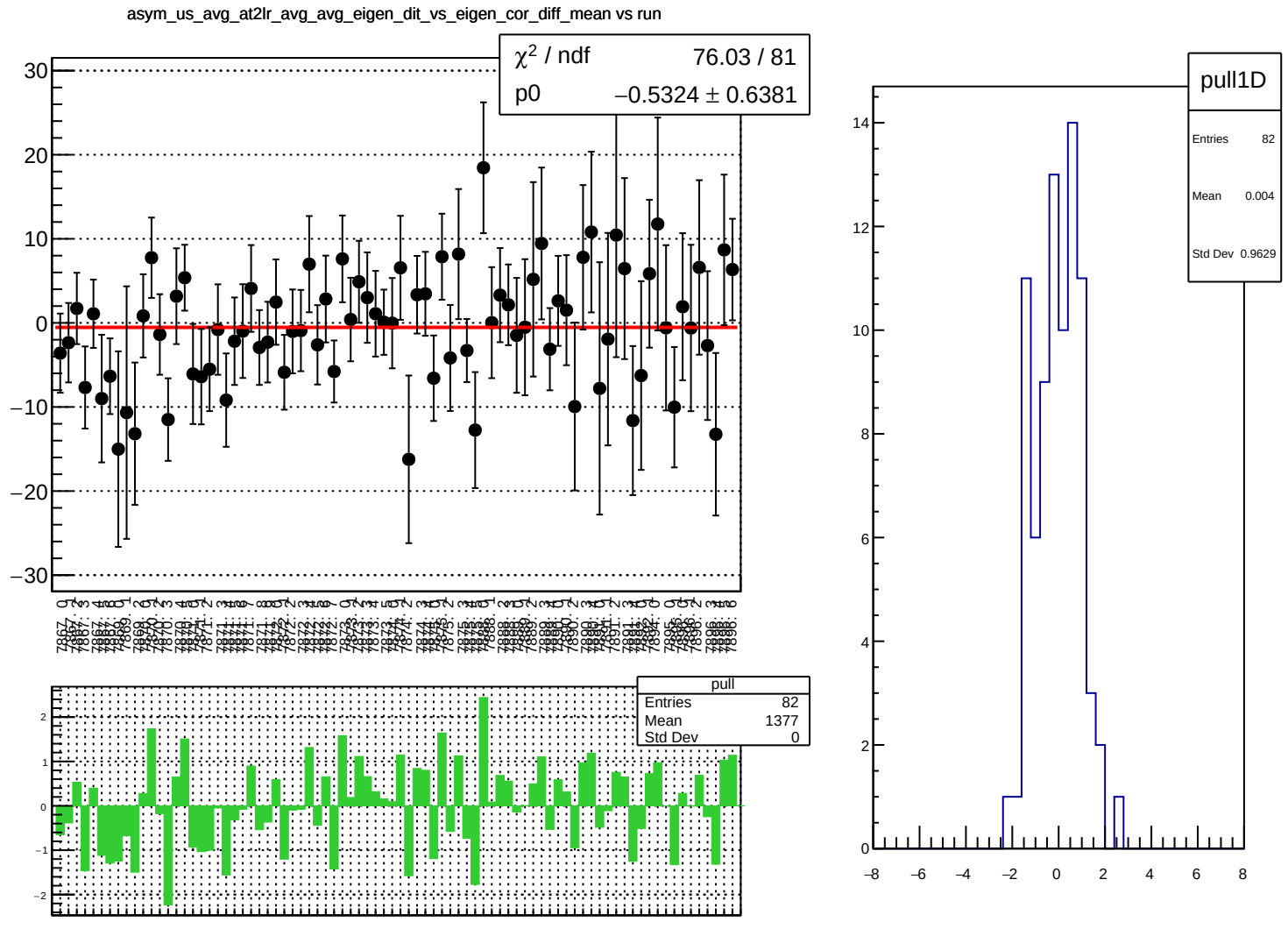

pull1D
Entries 82
Mean −0.03069
Std Dev 0.9478
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

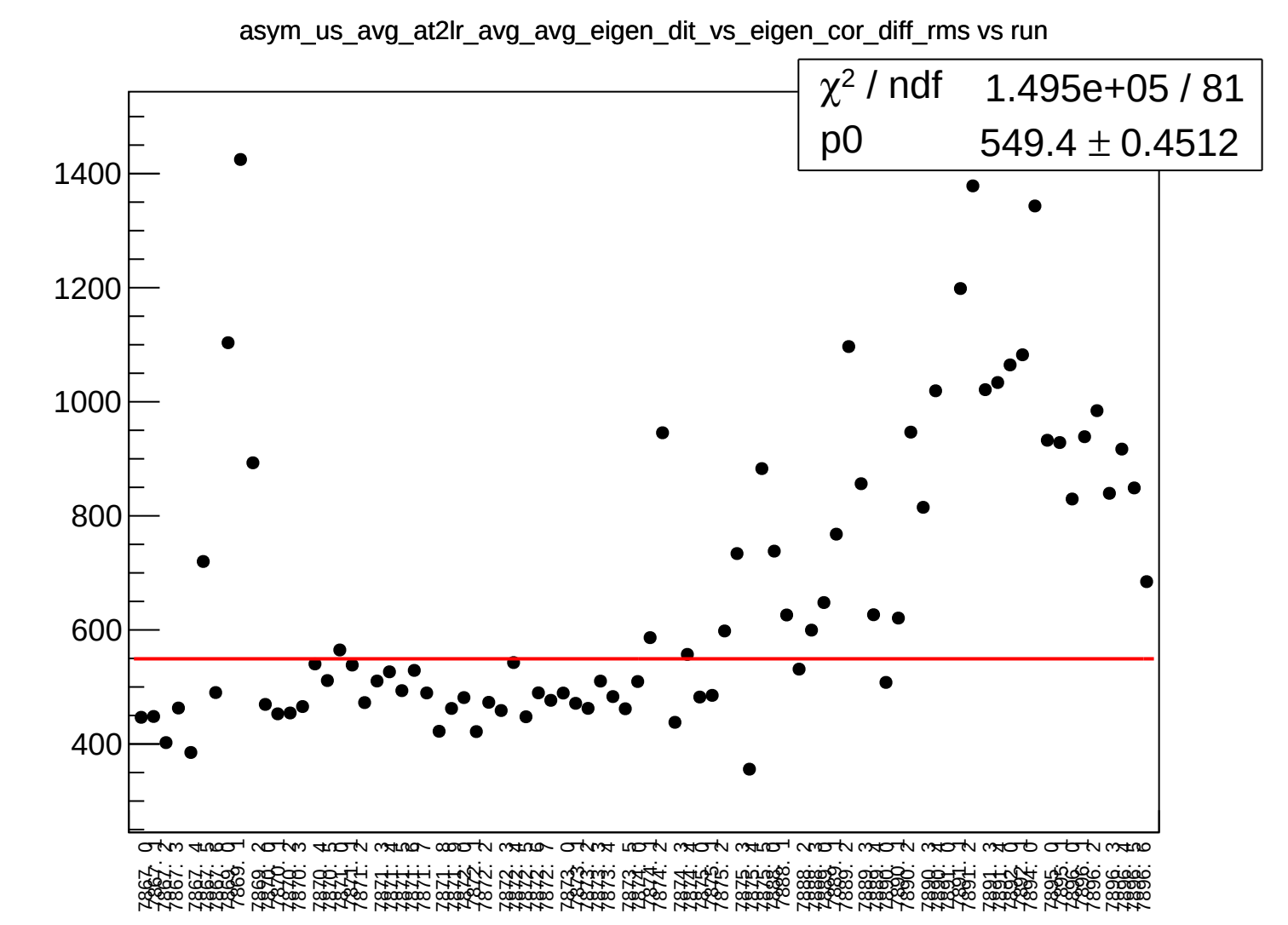

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.225e+05 / 81
p0 0.01361 ± 1.146e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

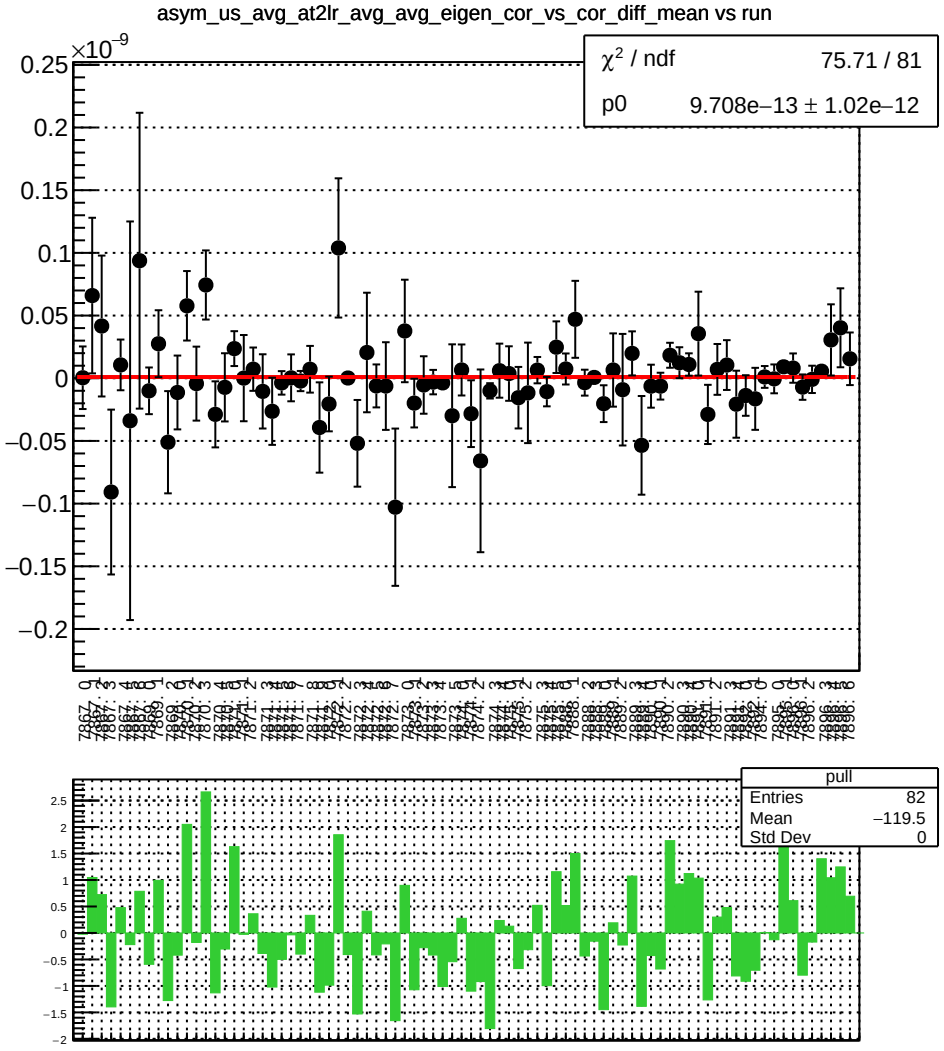

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.03 / 81
p0 −0.5324 ± 0.6381
pull
Entries 82
Mean 1377
Std Dev 0

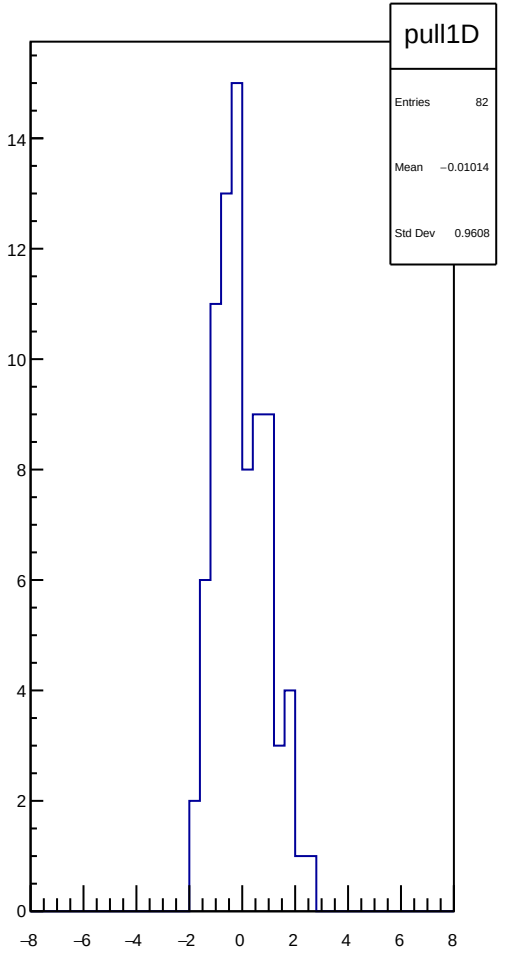

pull1D
Entries 82
Mean 0.004
Std Dev 0.9629

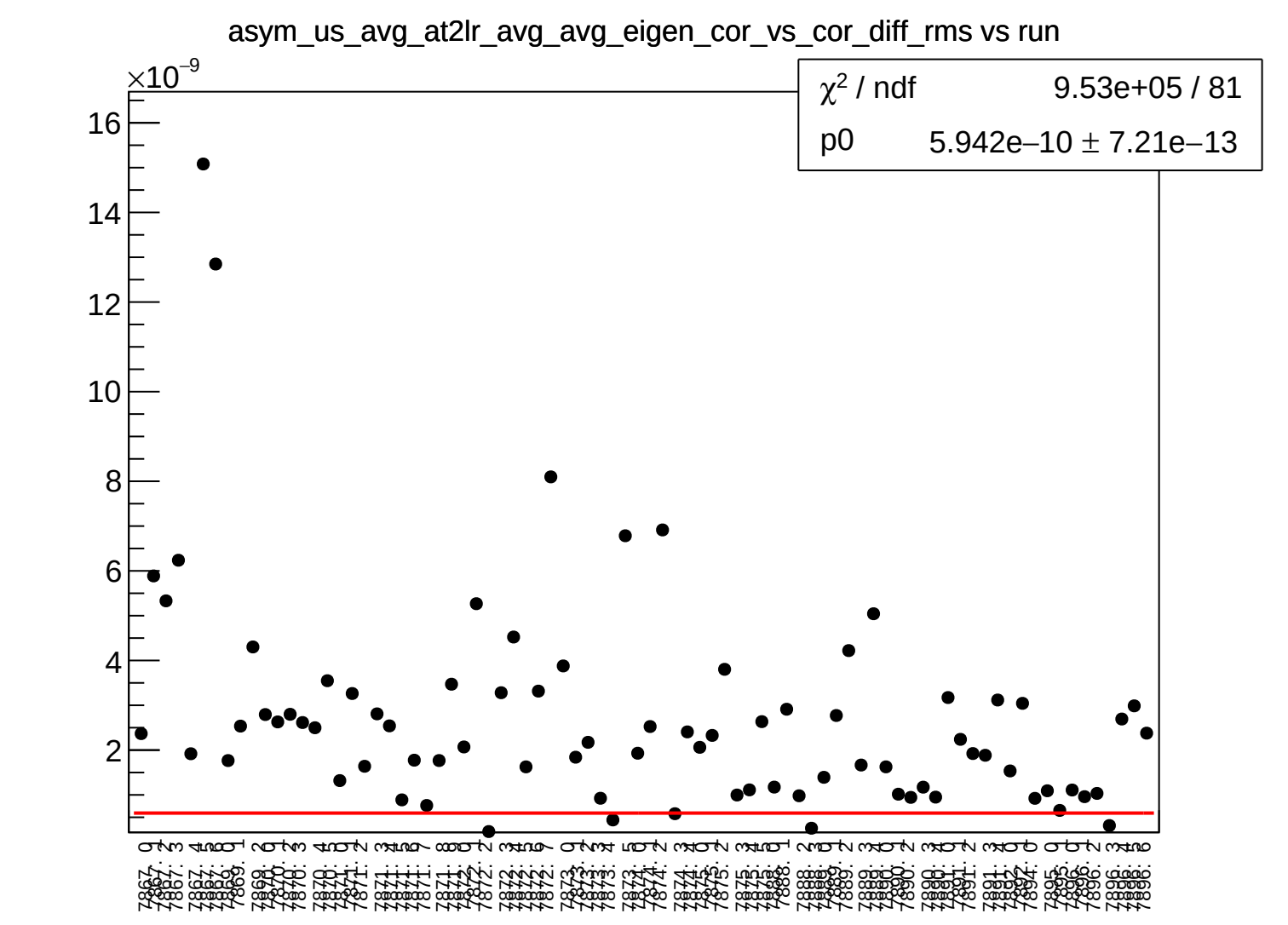

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 81
p0 549.4 ± 0.4512
1400
1200
1000
800
600
400

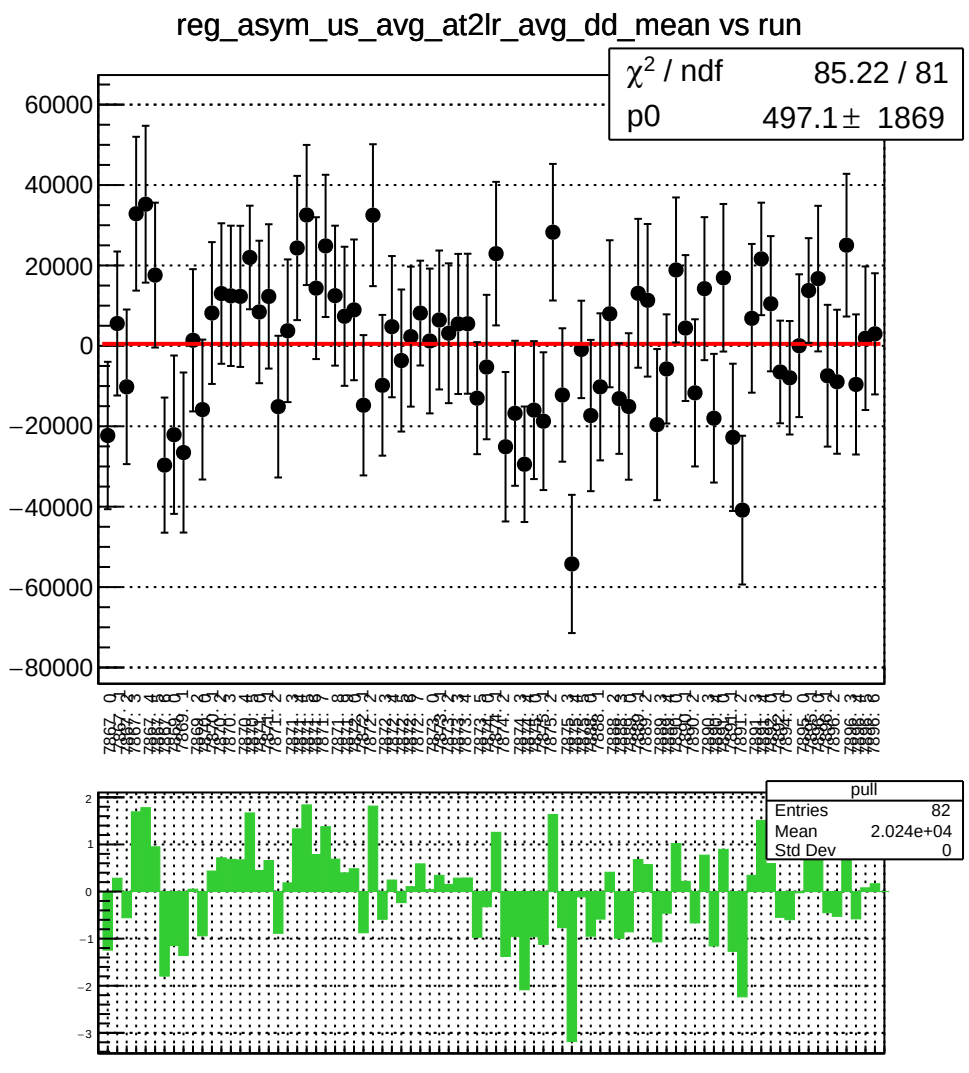

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.03 / 81
p0 −0.5324 ± 0.6381
pull
Entries 82
Mean 1377
Std Dev 0
pull1D
Entries 82
Mean 0.004
Std Dev 0.9629

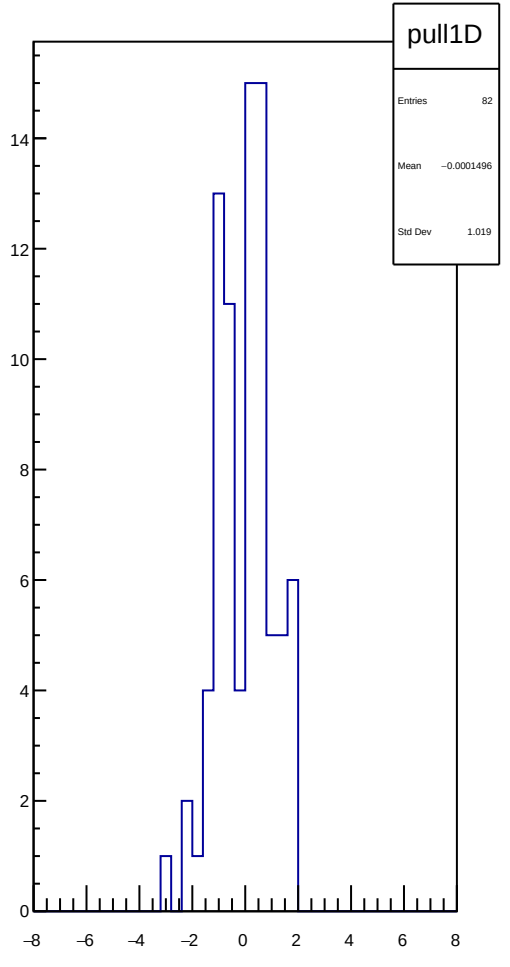

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 81
p0 549.4 ± 0.4512
1400
1200
1000
800
600
400

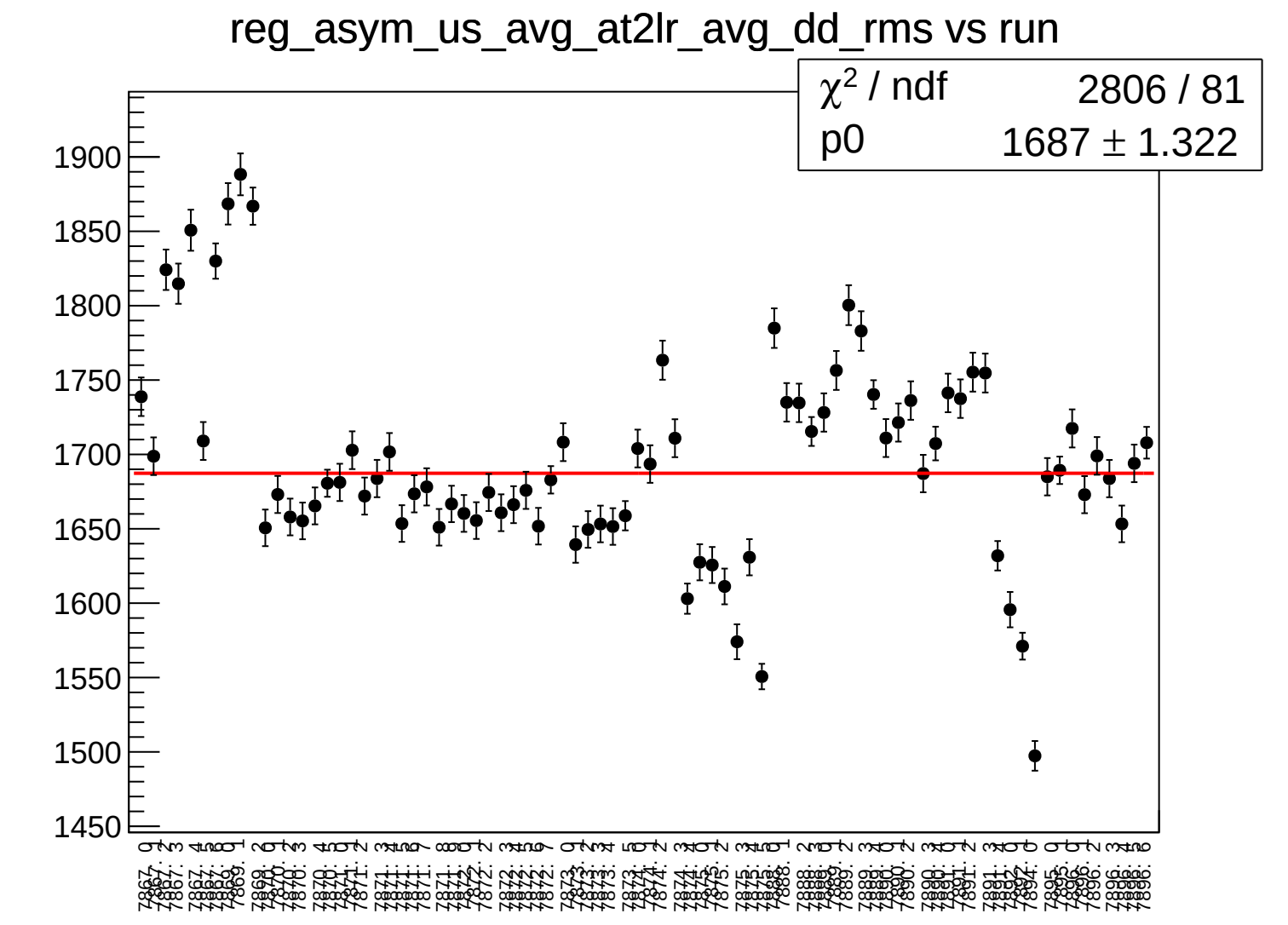

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 75.71 / 81
p0 9.708e−13 ± 1.02e−12
pull
Entries 82
Mean −119.5
Std Dev 0

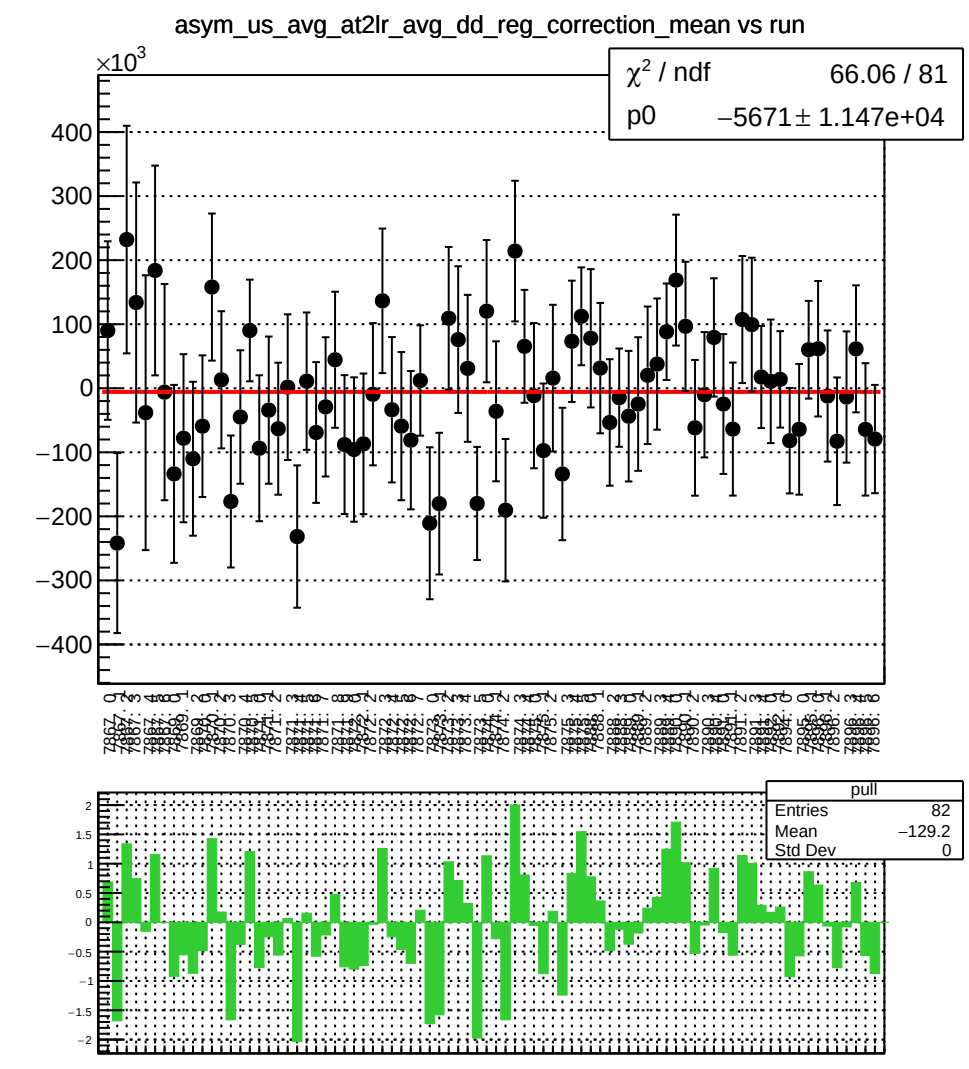

pull1D
Entries 82
Mean −0.01014
Std Dev 0.9608

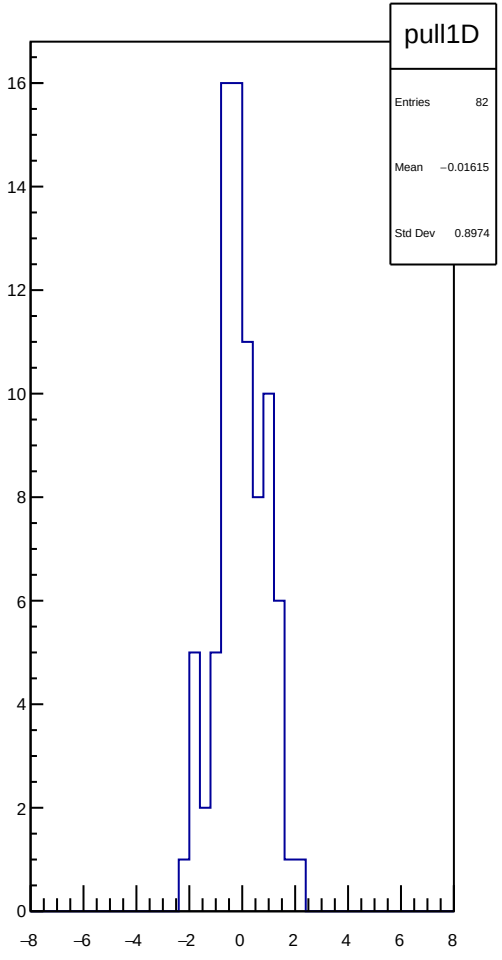

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.53e+05 / 81
p0 5.942e−10 ± 7.21e−13
16
14
12
10
8
6
4
2

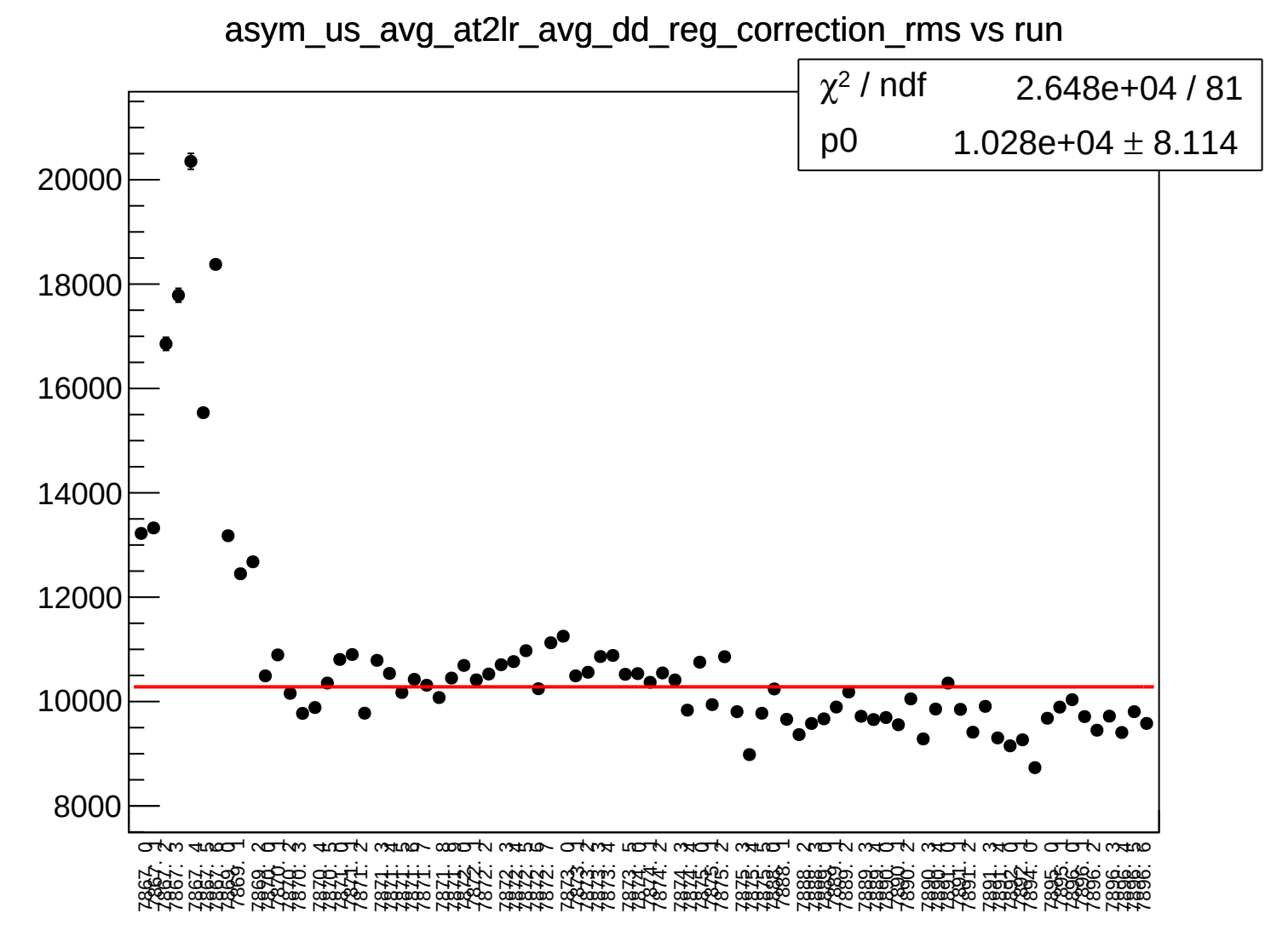

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 85.22 / 81
p0 497.1 ± 1869
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 2.024e+04
Std Dev 0
2
1
0
−1
−2
−3

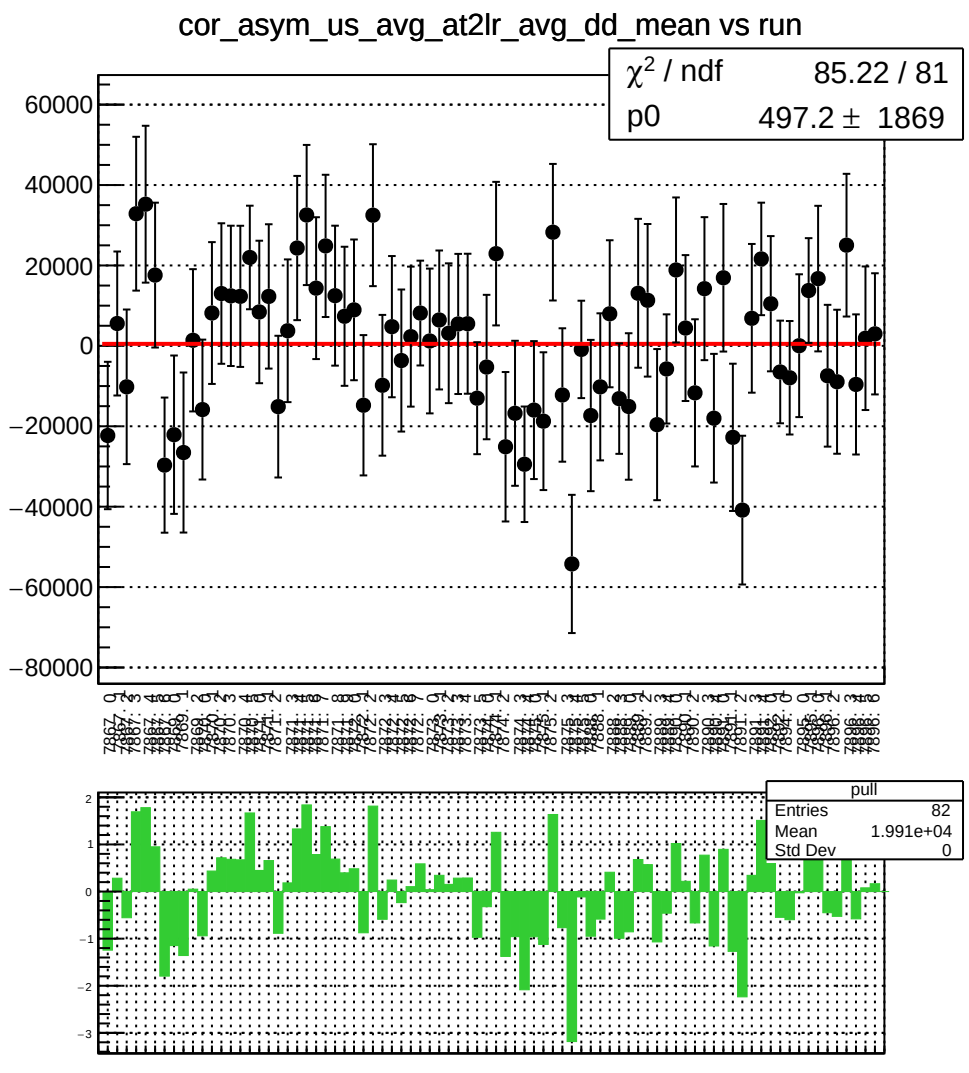

pull1D
Entries 82
Mean −0.0001496
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

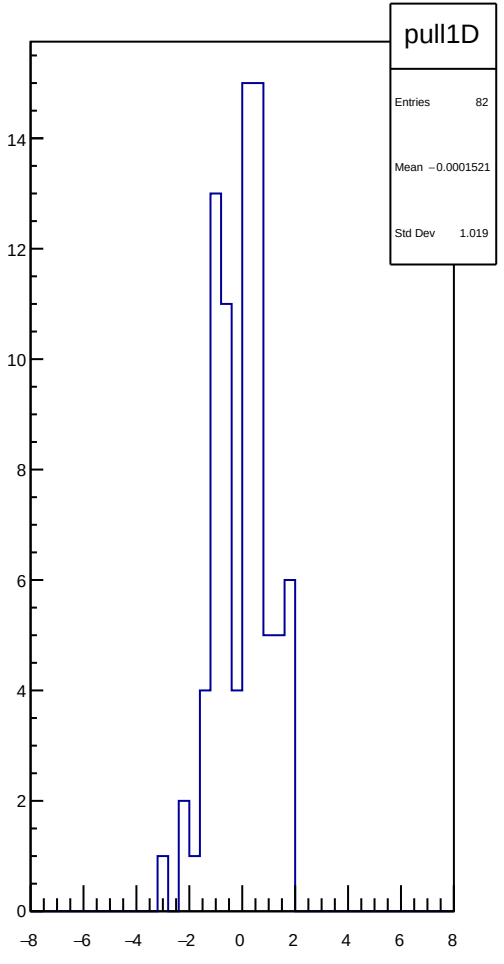

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2806 / 81
p0 1687 ± 1.322
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

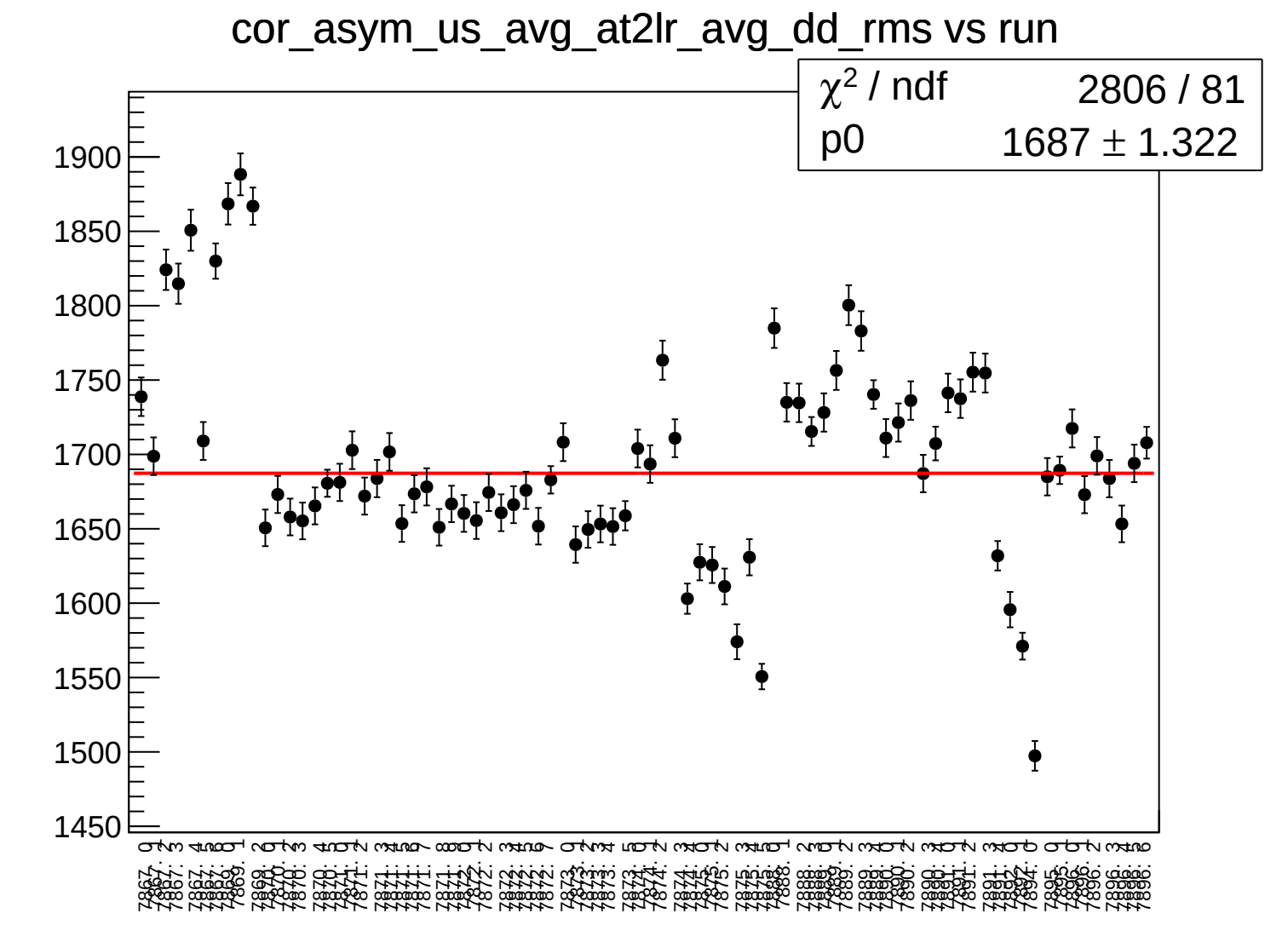

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 66.06 / 81
p0 −5671 ± 1.147e+04
pull
Entries 82
Mean −129.2
Std Dev 0

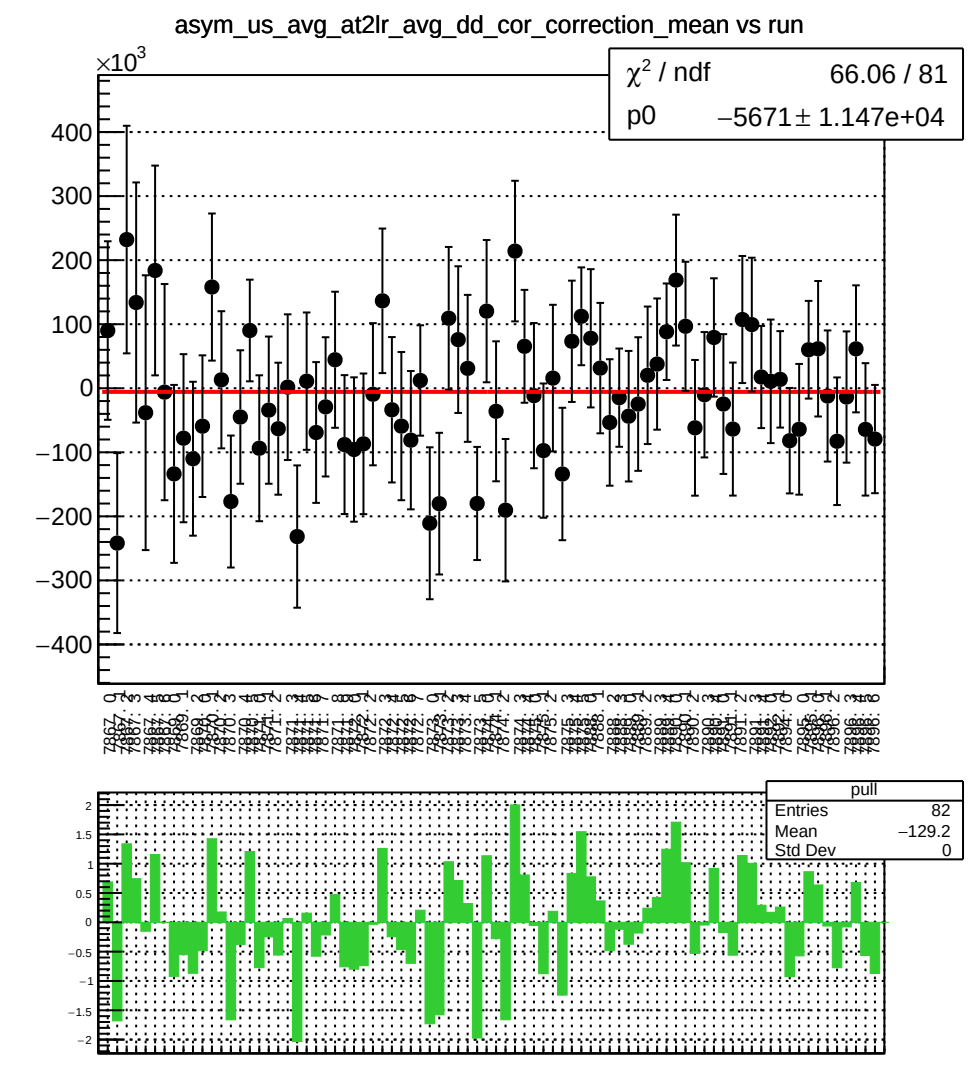

pull1D
Entries 82
Mean −0.01615
Std Dev 0.8974

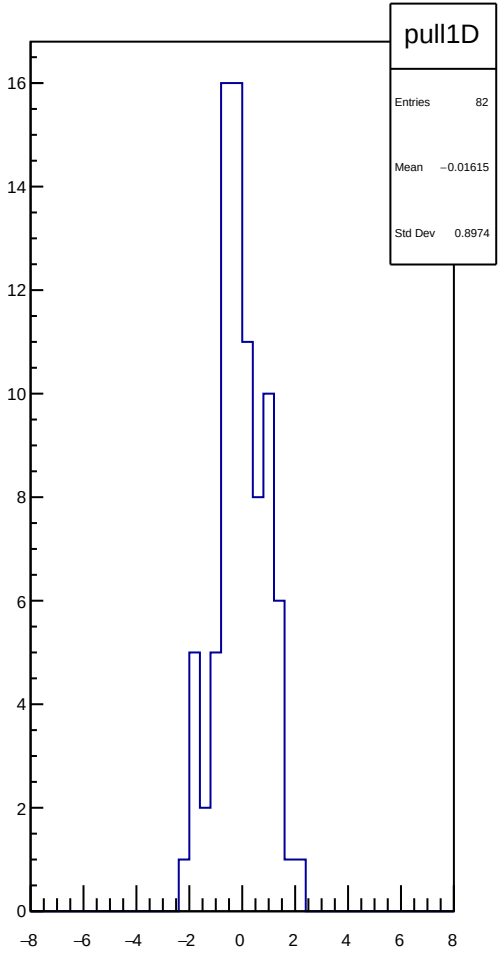

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.648e+04 / 81
p0 1.028e+04 ± 8.114
20000
18000
16000
14000
12000
10000
8000

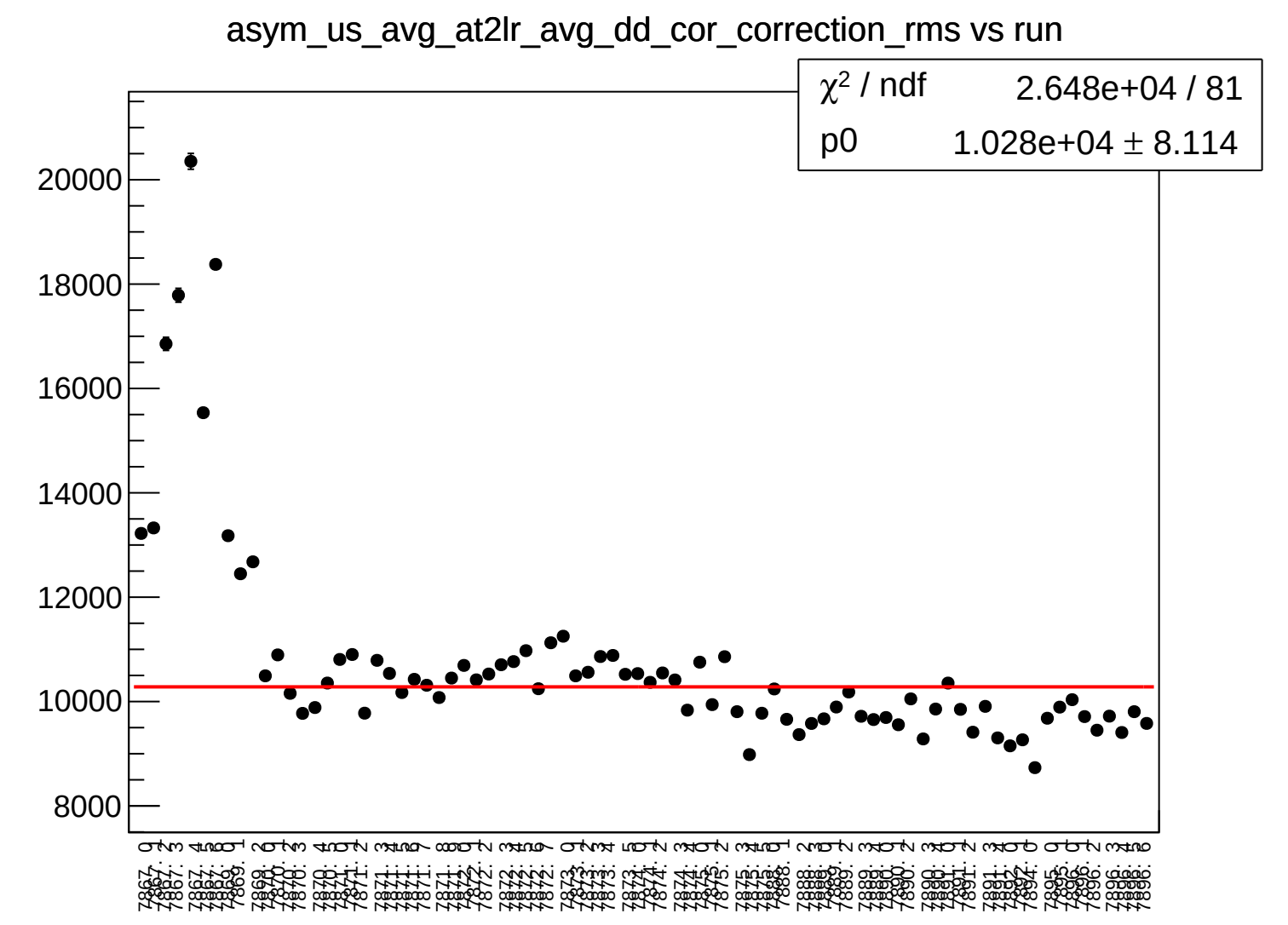

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 85.22 / 81
p0 497.2 ± 1869
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 1.991e+04
Std Dev 0
2
1
0
−1
−2
−3

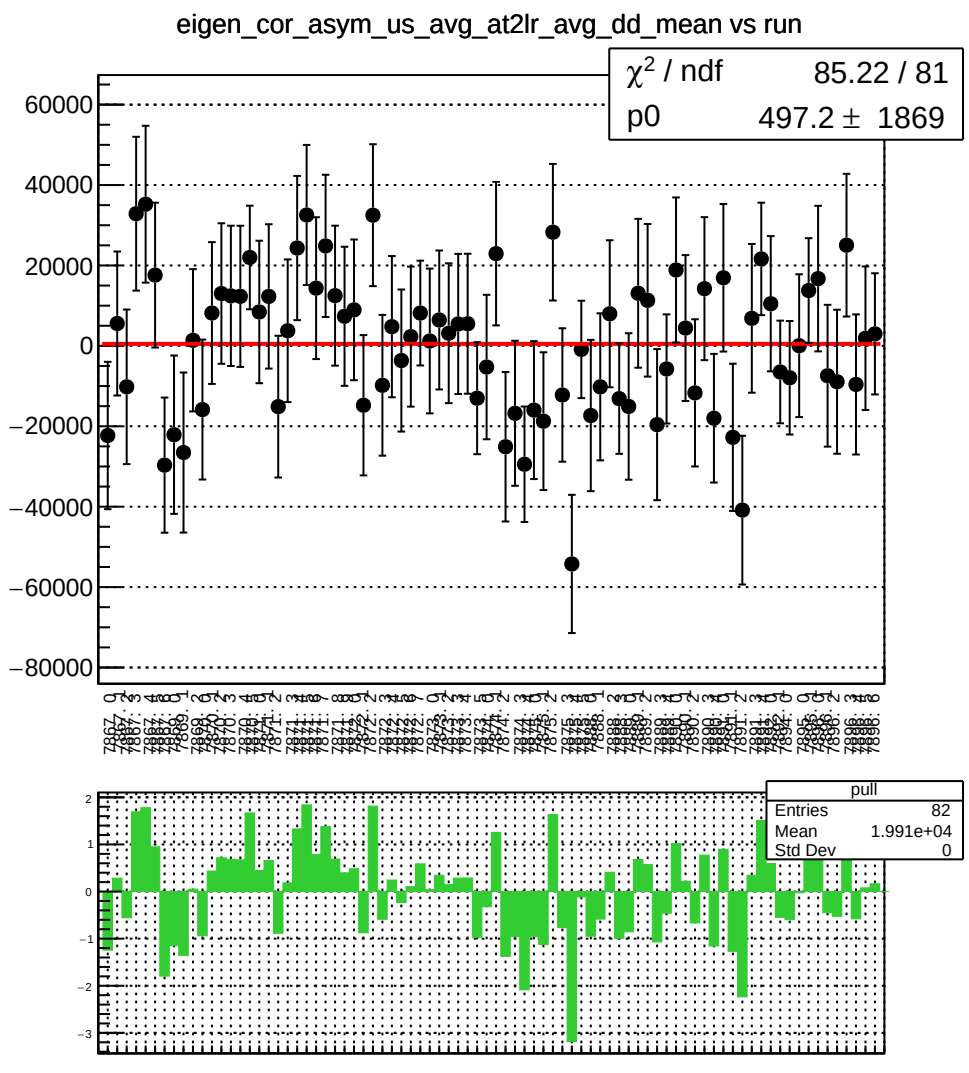

pull1D
Entries 82
Mean −0.0001521
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

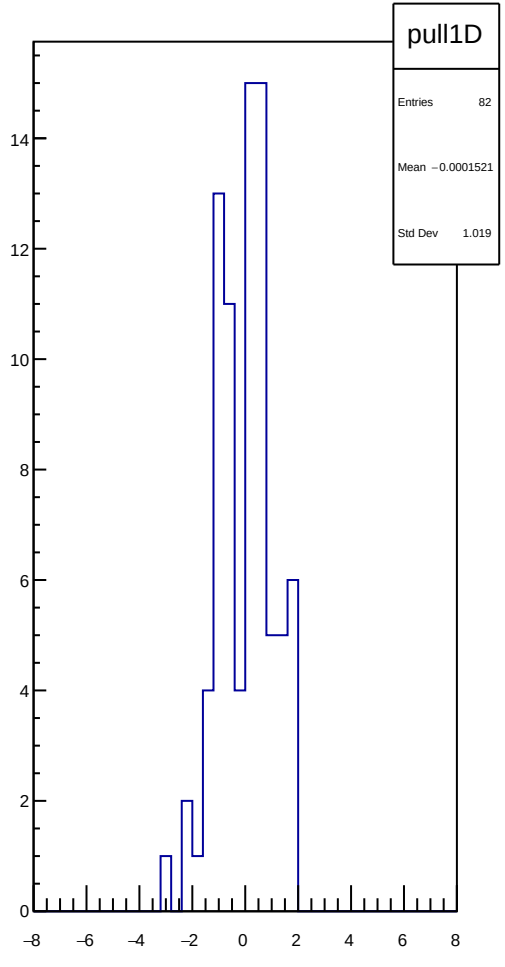

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2806 / 81
p0 1687 ± 1.322
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

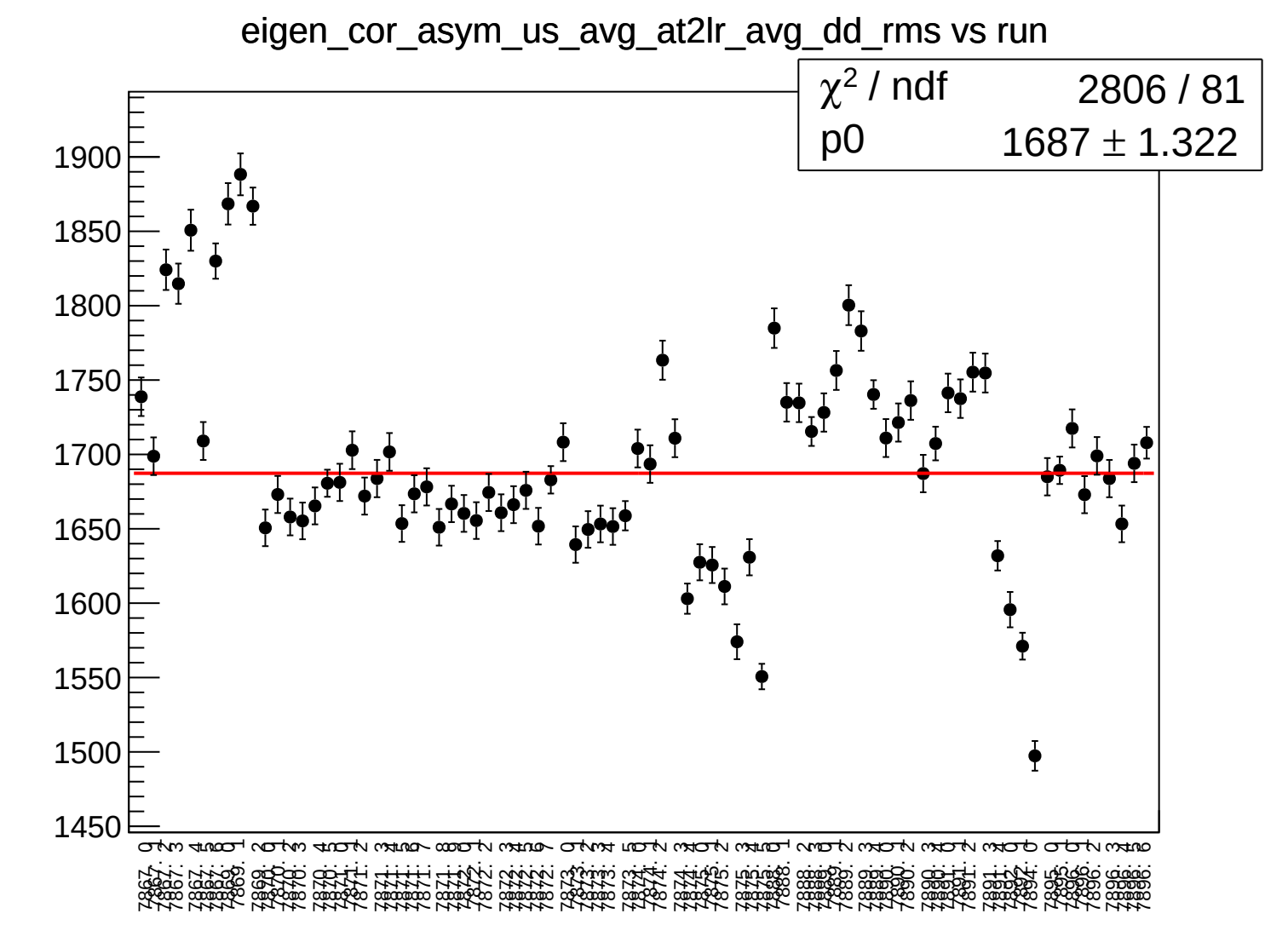

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 66.06 / 81
p0 −5671 ± 1.147e+04
pull
Entries 82
Mean −129.2
Std Dev 0

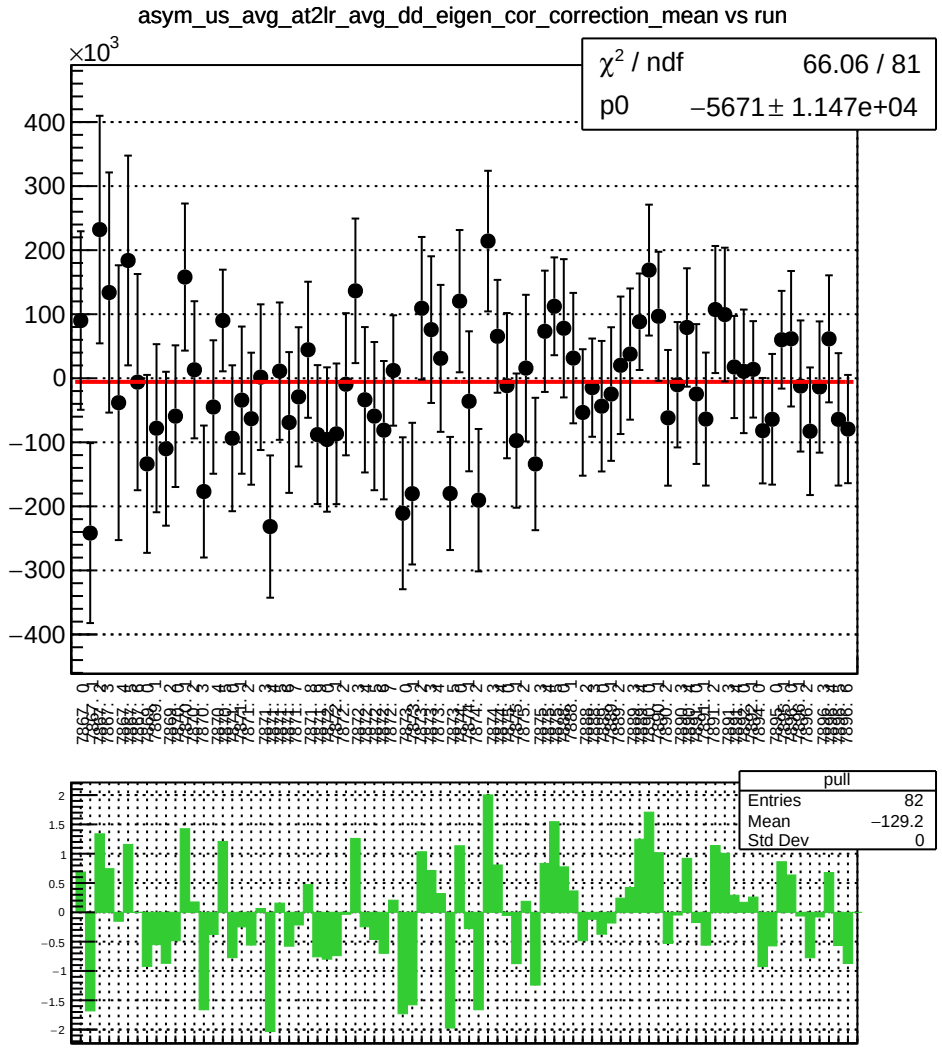

pull1D
Entries 82
Mean −0.01615
Std Dev 0.8974

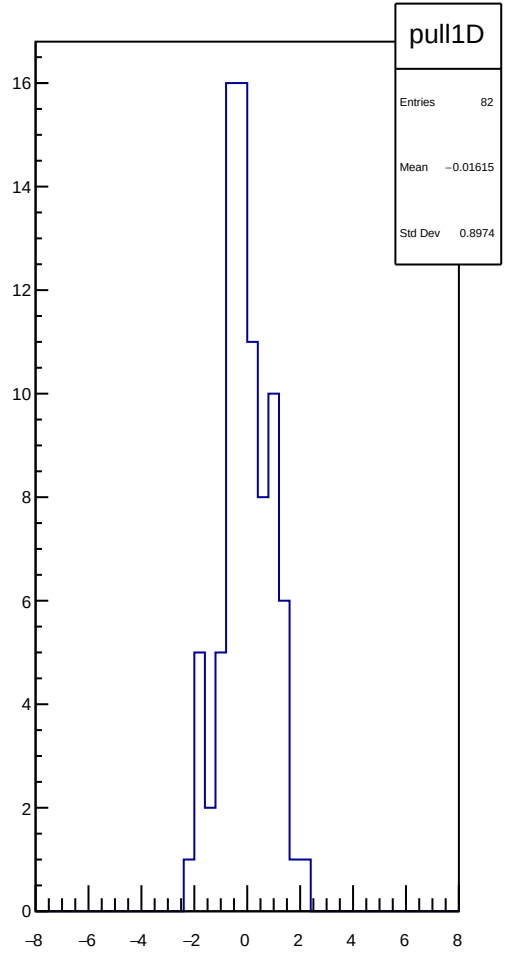

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.648e+04 / 81
p0 1.028e+04 ± 8.114
20000
18000
16000
14000
12000
10000
8000

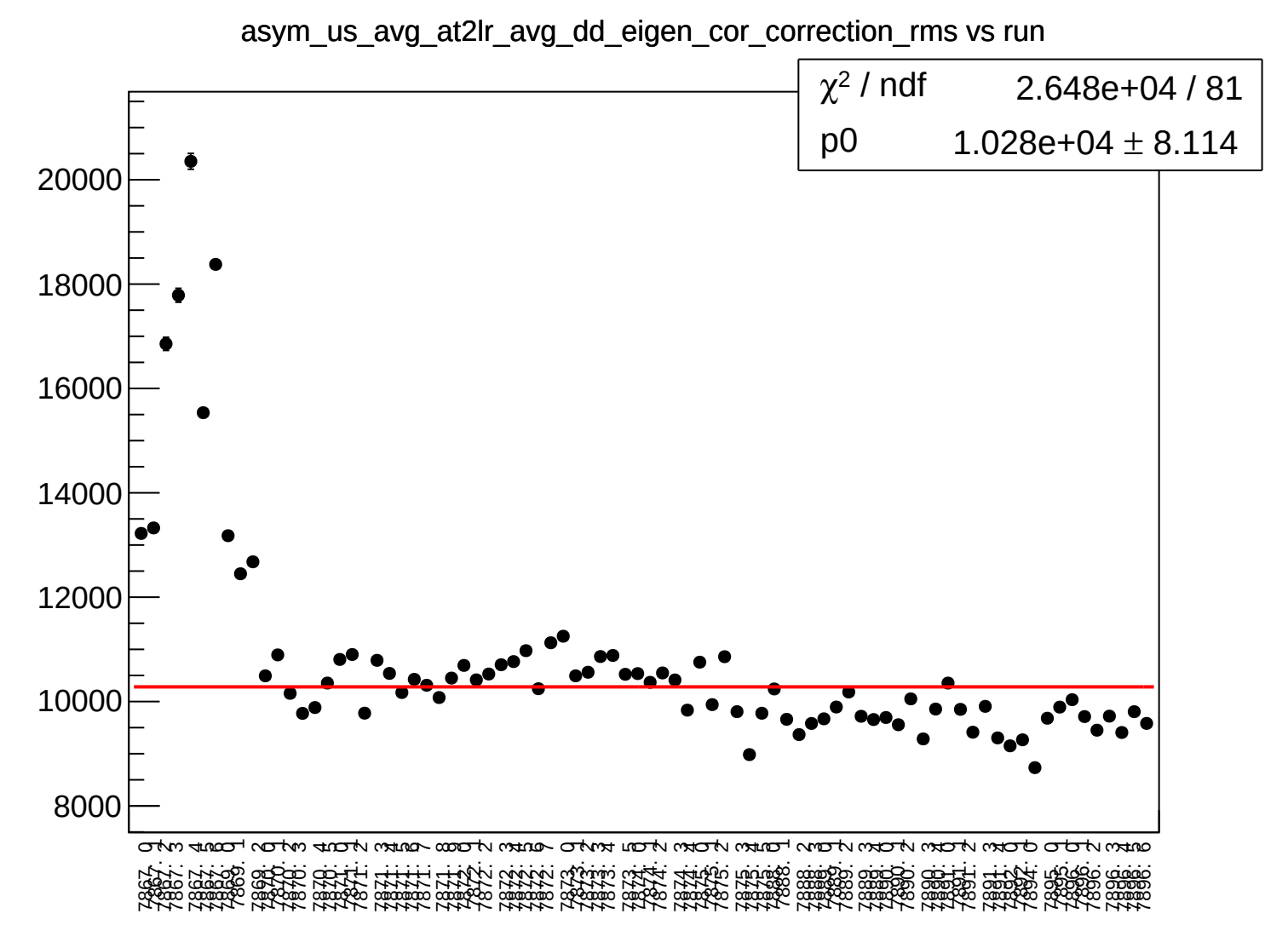

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 85.22 / 81
p0 497.2 ± 1869
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 1.991e+04
Std Dev 0
2
1
0
−1
−2
−3

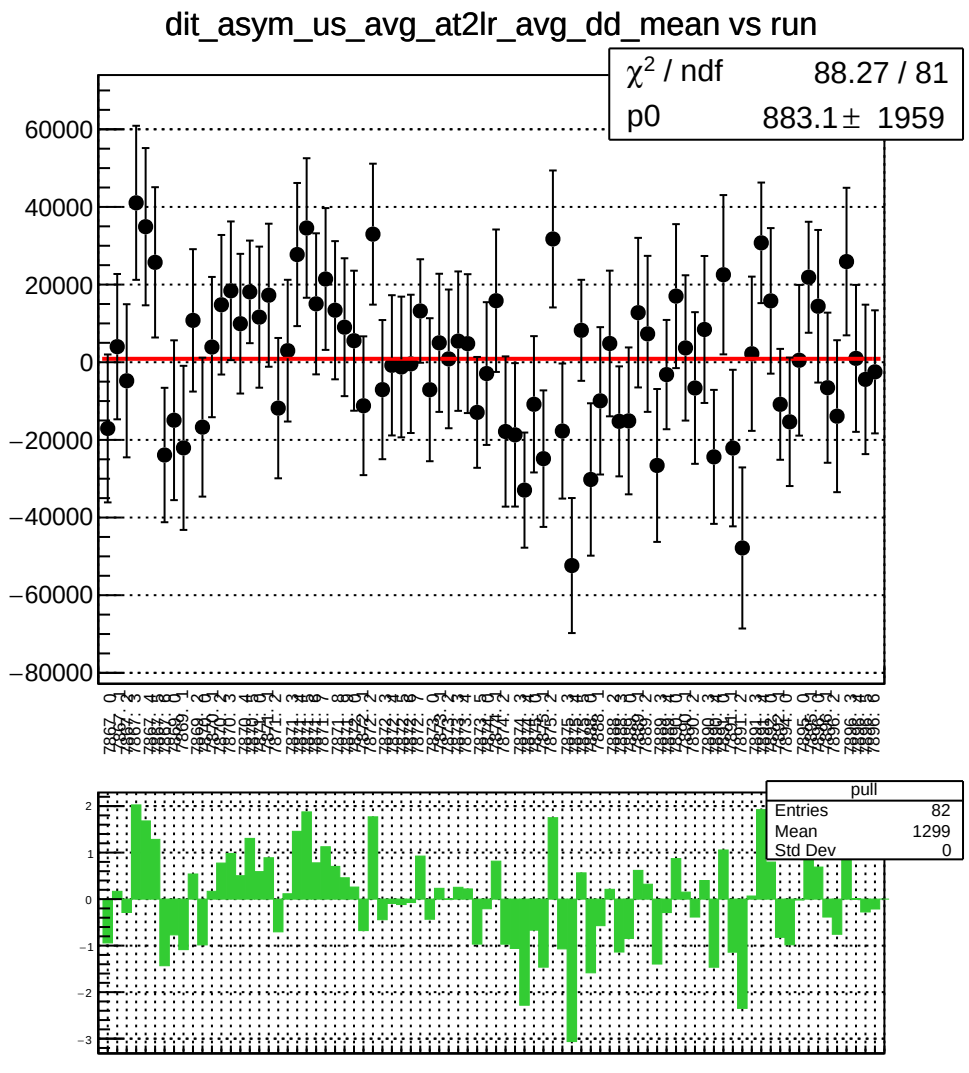

pull1D
Entries 82
Mean −0.0001521
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

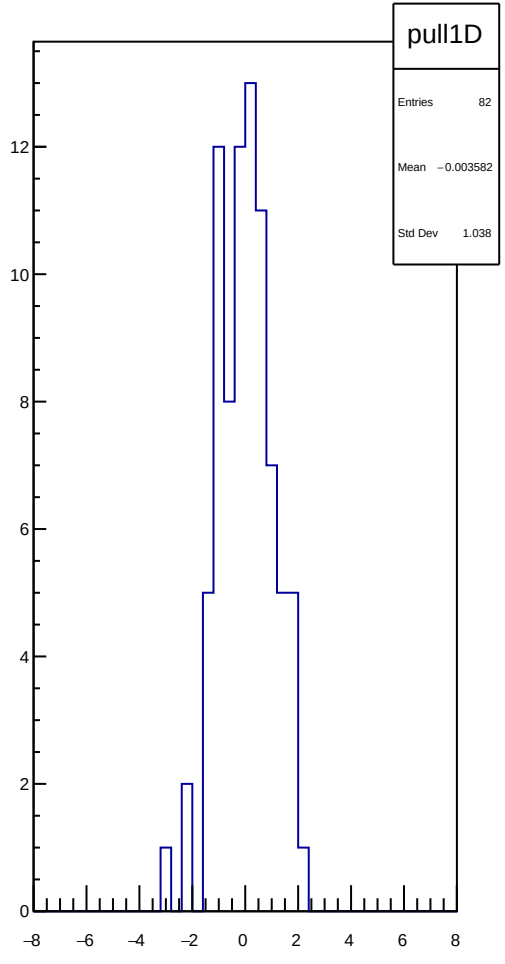

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2806 / 81
p0 1687 ± 1.322
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

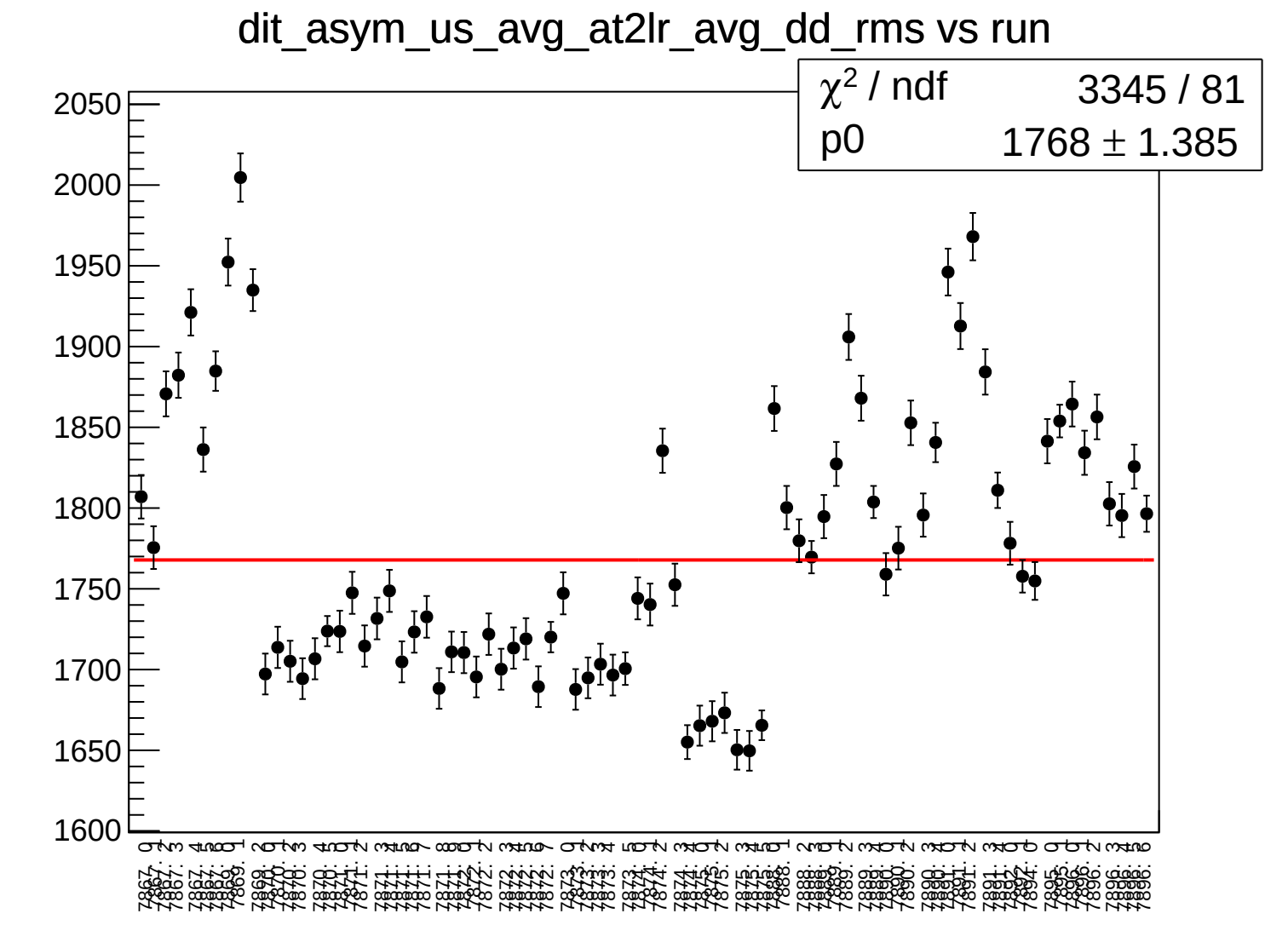

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.06 / 81
p0 −5671 ± 1.147e+04
pull
Entries 82
Mean −129.2
Std Dev 0

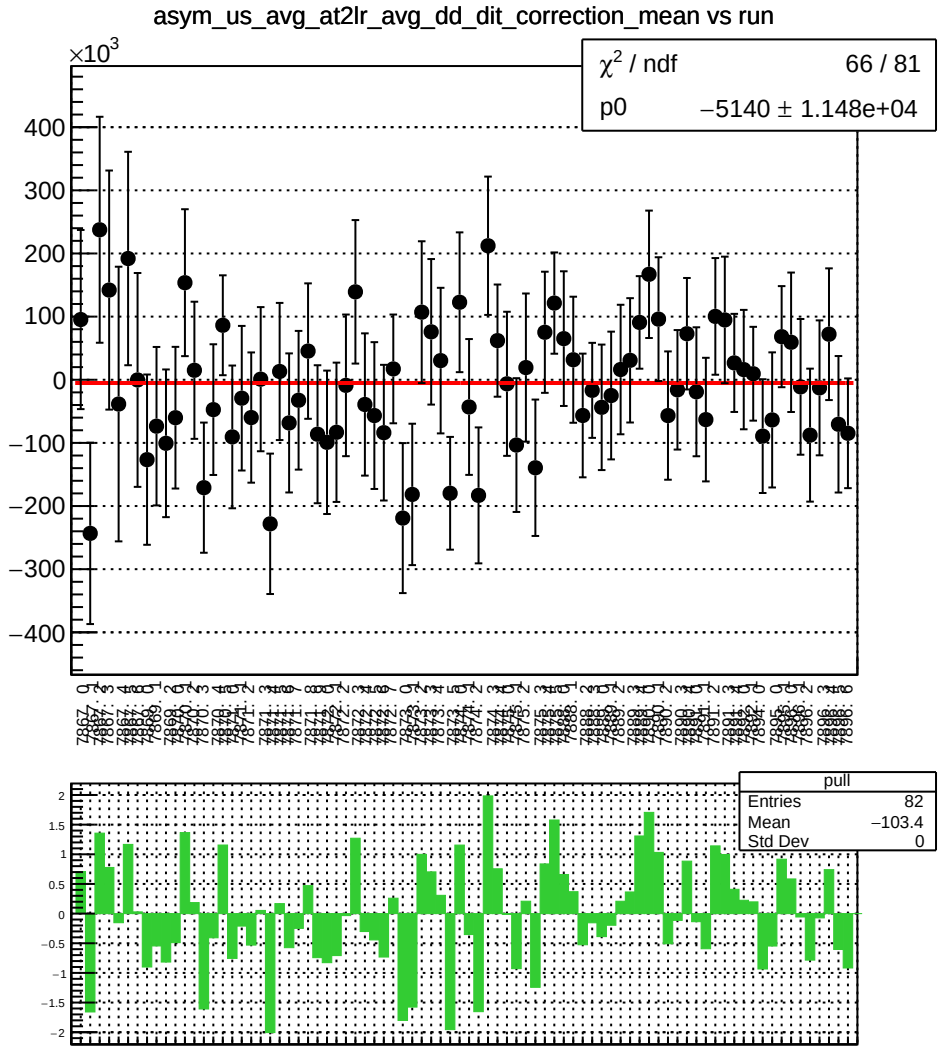

pull1D
Entries 82
Mean −0.01615
Std Dev 0.8974

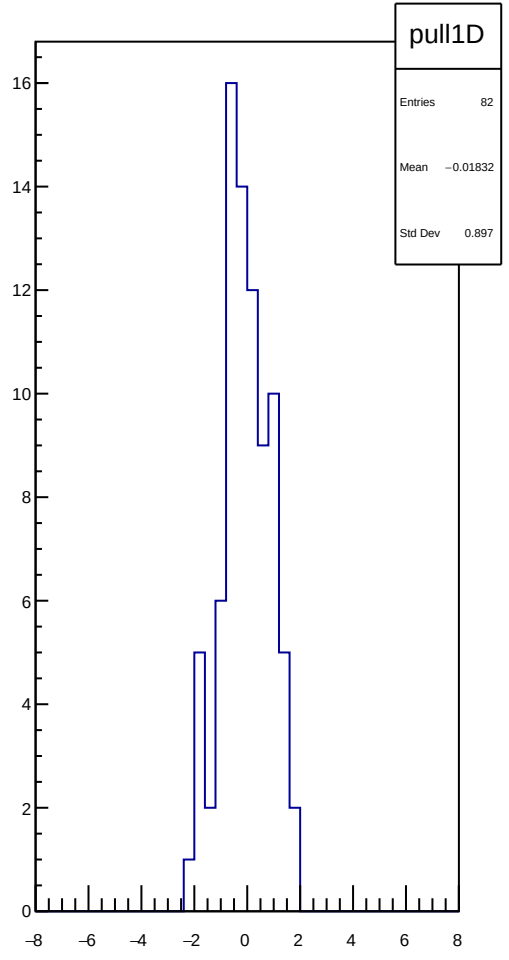

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.648e+04 / 81
p0 1.028e+04 ± 8.114
20000
18000
16000
14000
12000
10000
8000

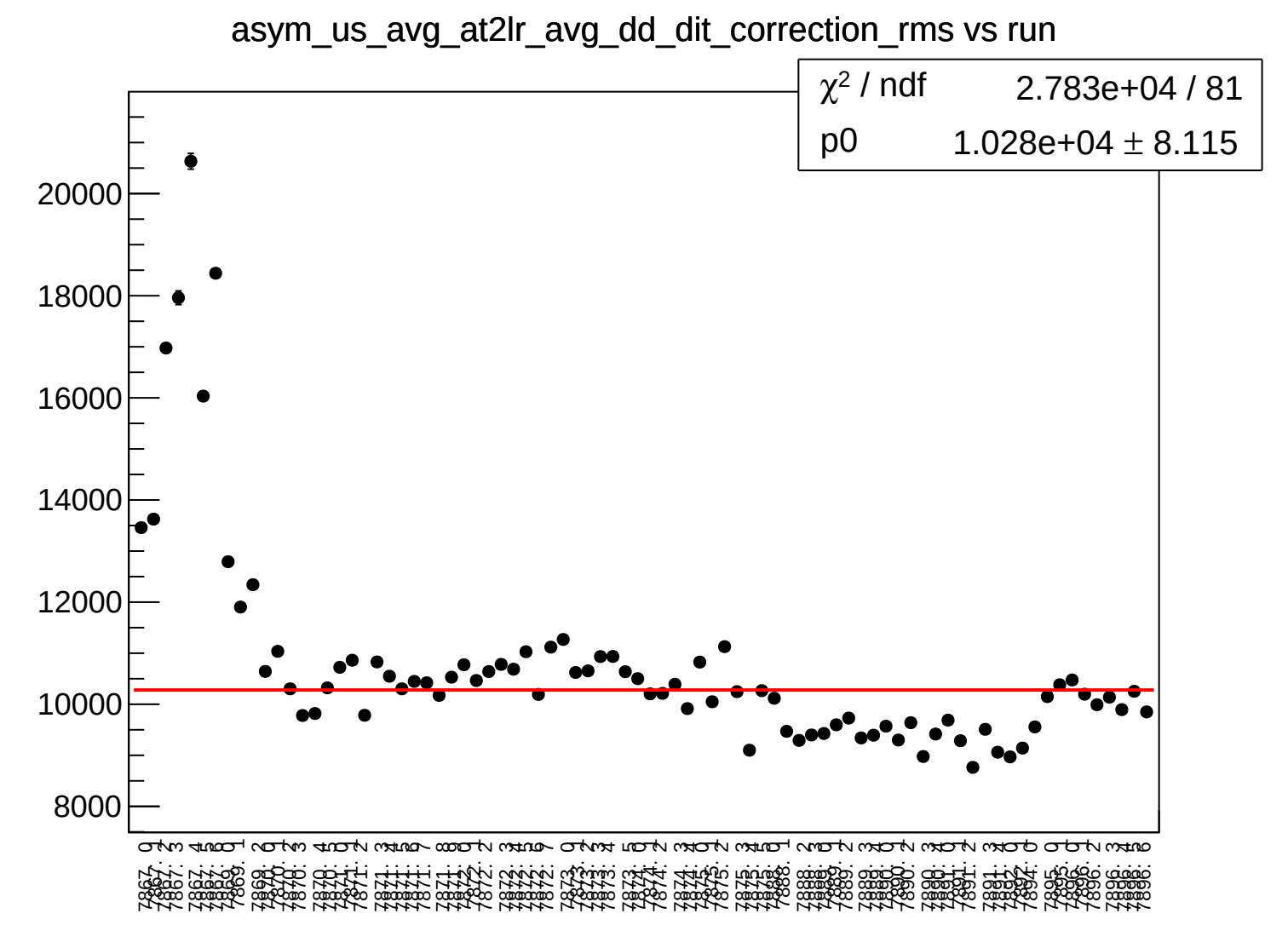

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.27 / 81
p0 883.1 ± 1959
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 1299
Std Dev 0
2
1
0
−1
−2
−3

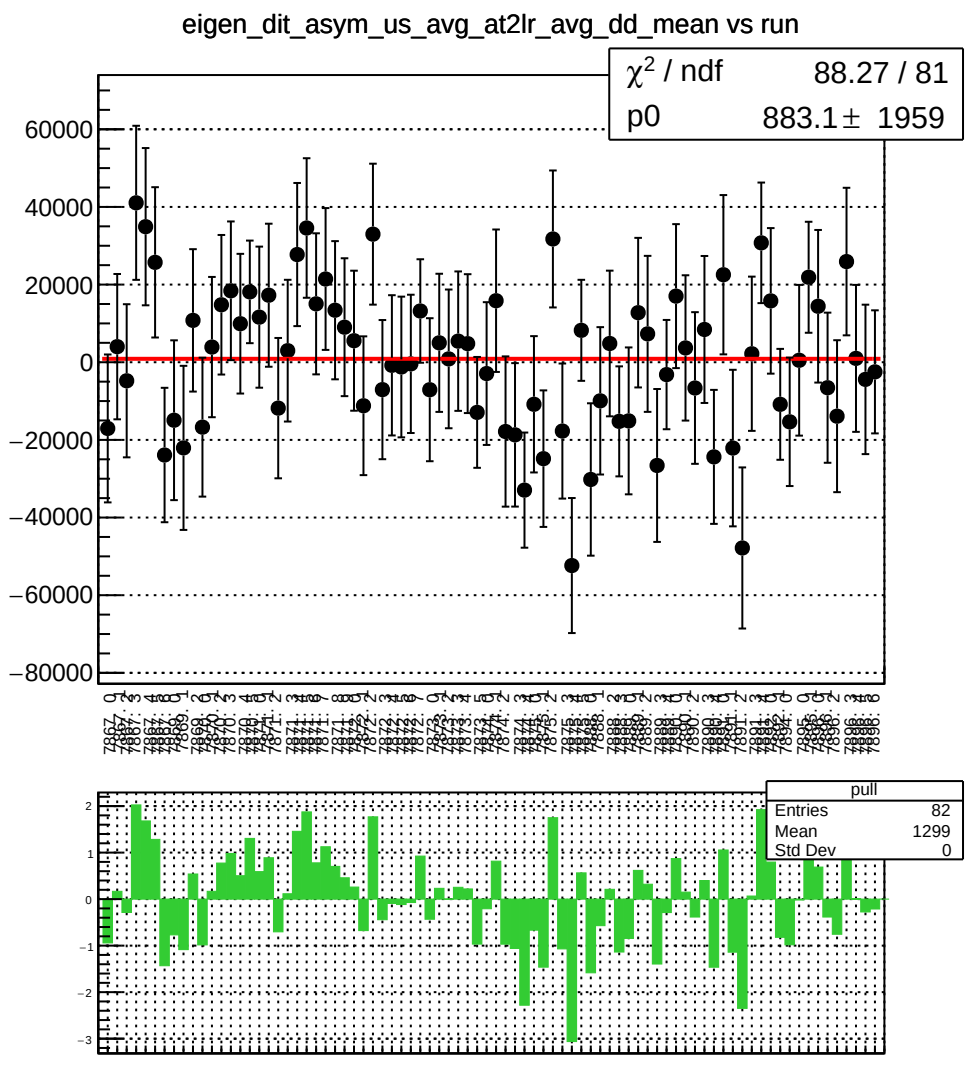

pull1D
Entries 82
Mean −0.003582
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

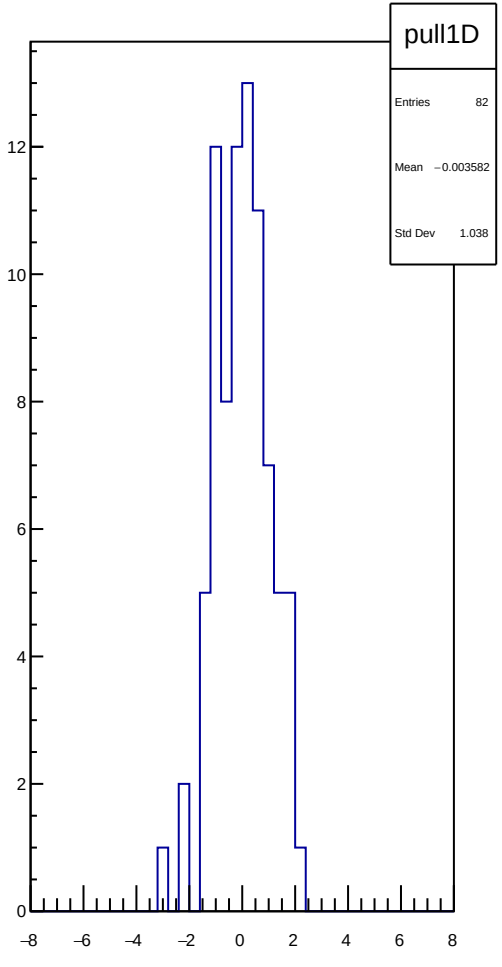

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3345 / 81
p0 1768 ± 1.385
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

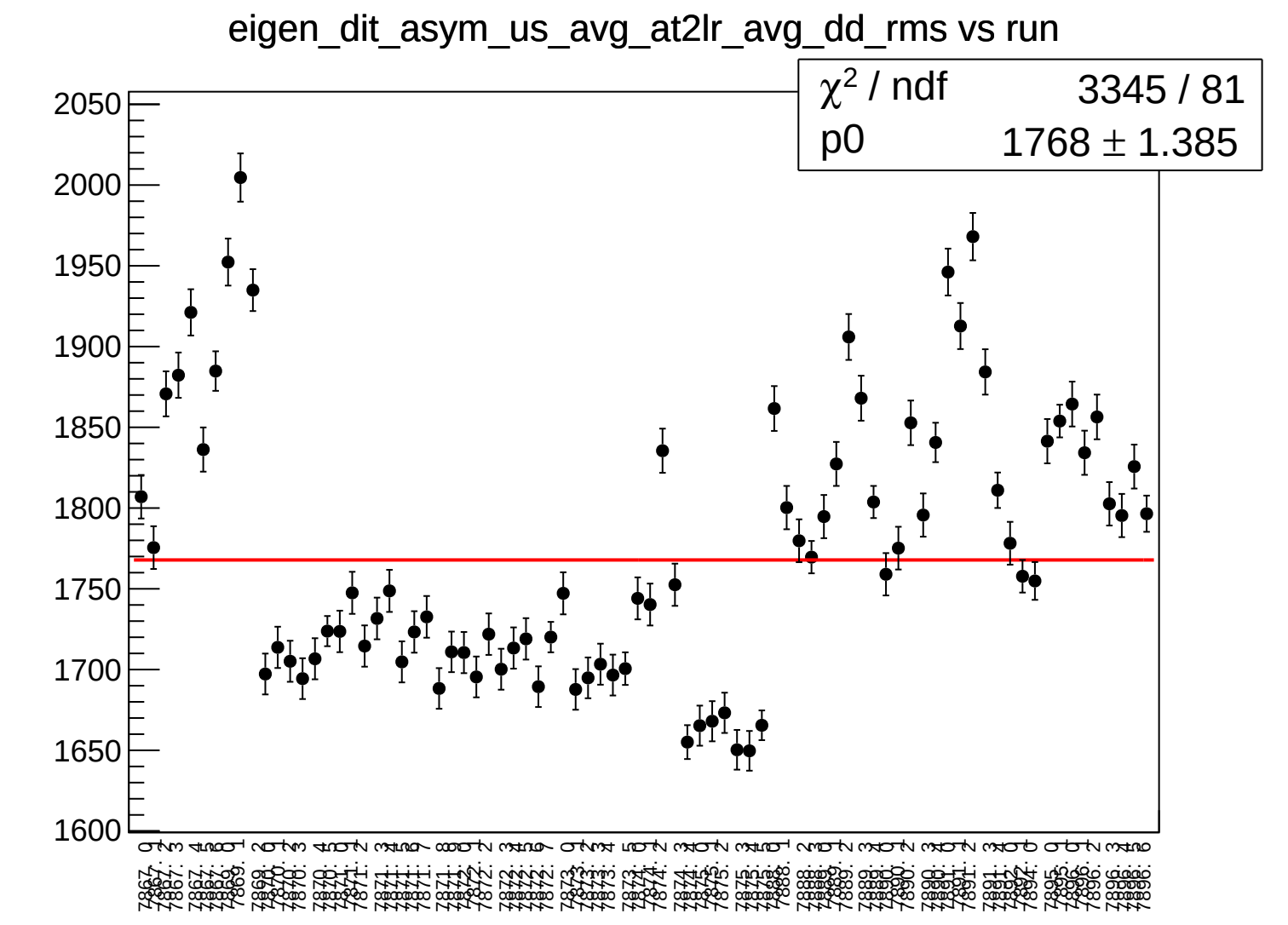

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66 / 81
p0 −5140 ± 1.148e+04
pull
Entries 82
Mean −103.4
Std Dev 0

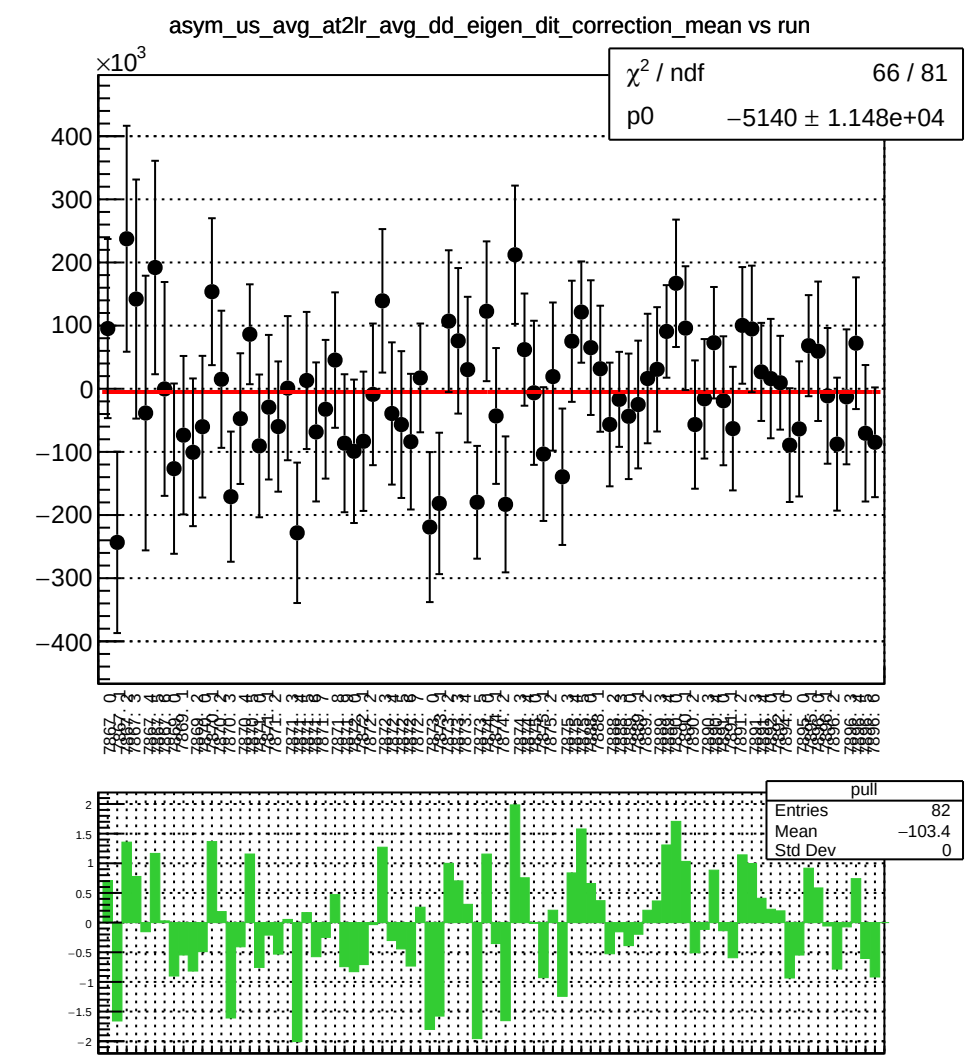

pull1D
Entries 82
Mean −0.01832
Std Dev 0.897

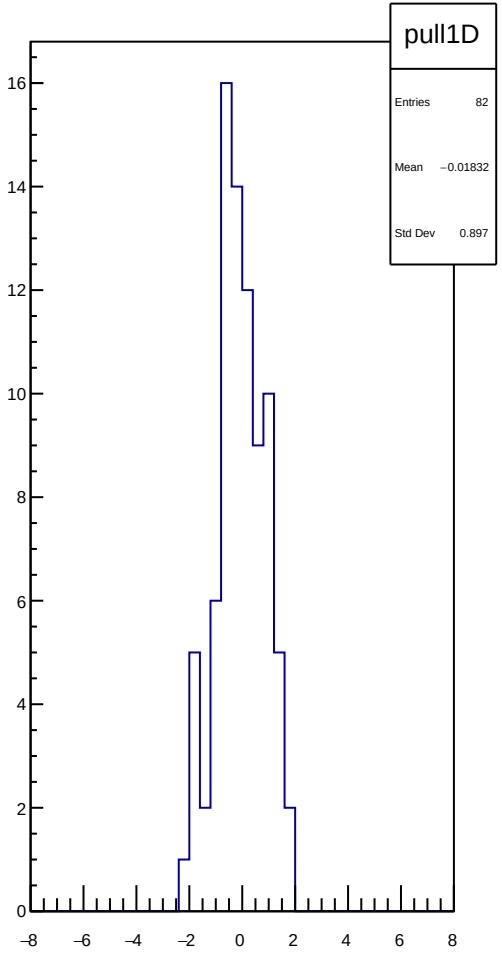

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.783e+04 / 81
p0 1.028e+04 ± 8.115
20000
18000
16000
14000
12000
10000
8000

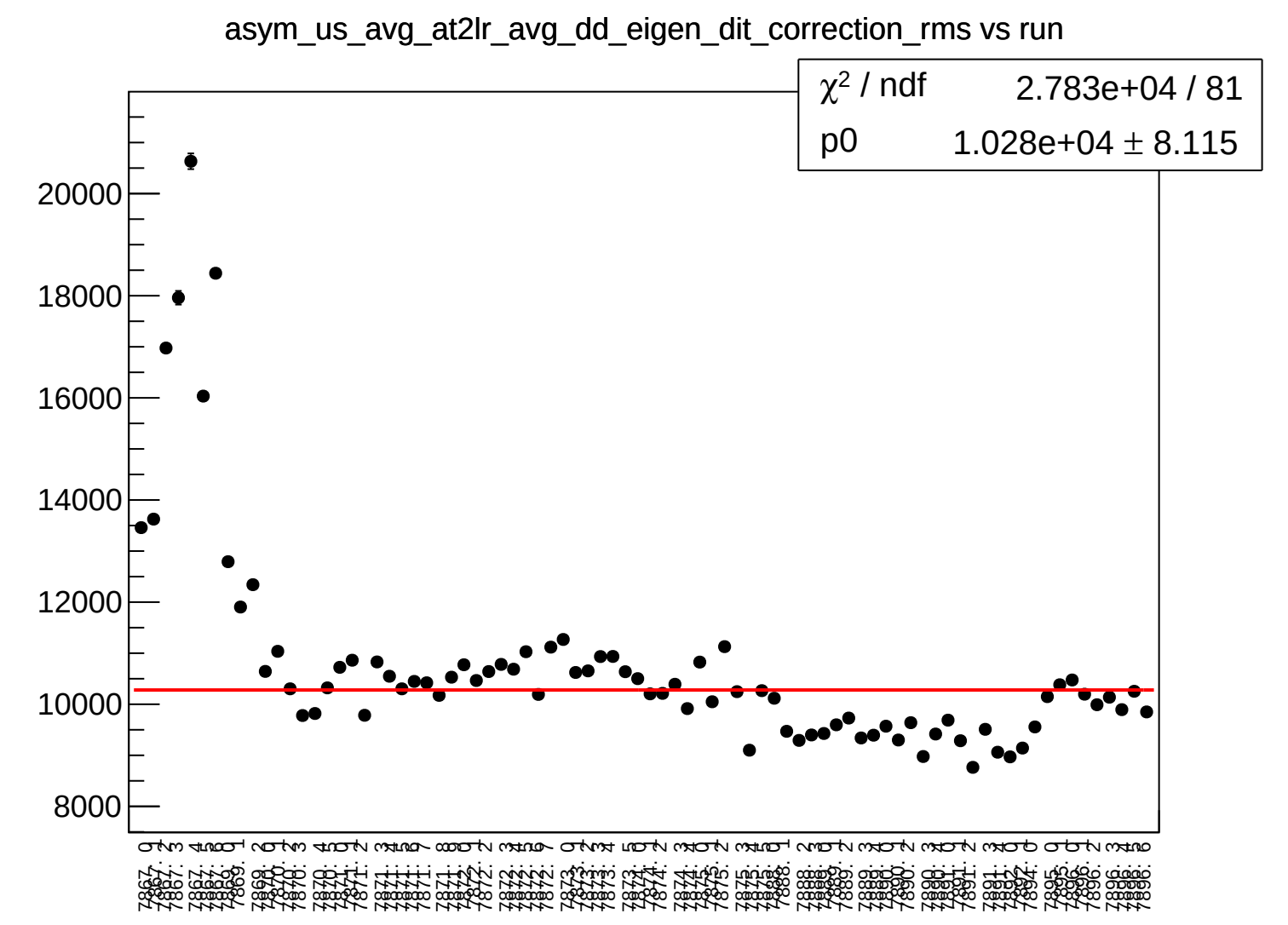

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.27 / 81
p0 883.1 ± 1959
pull
Entries 82
Mean 1299
Std Dev 0

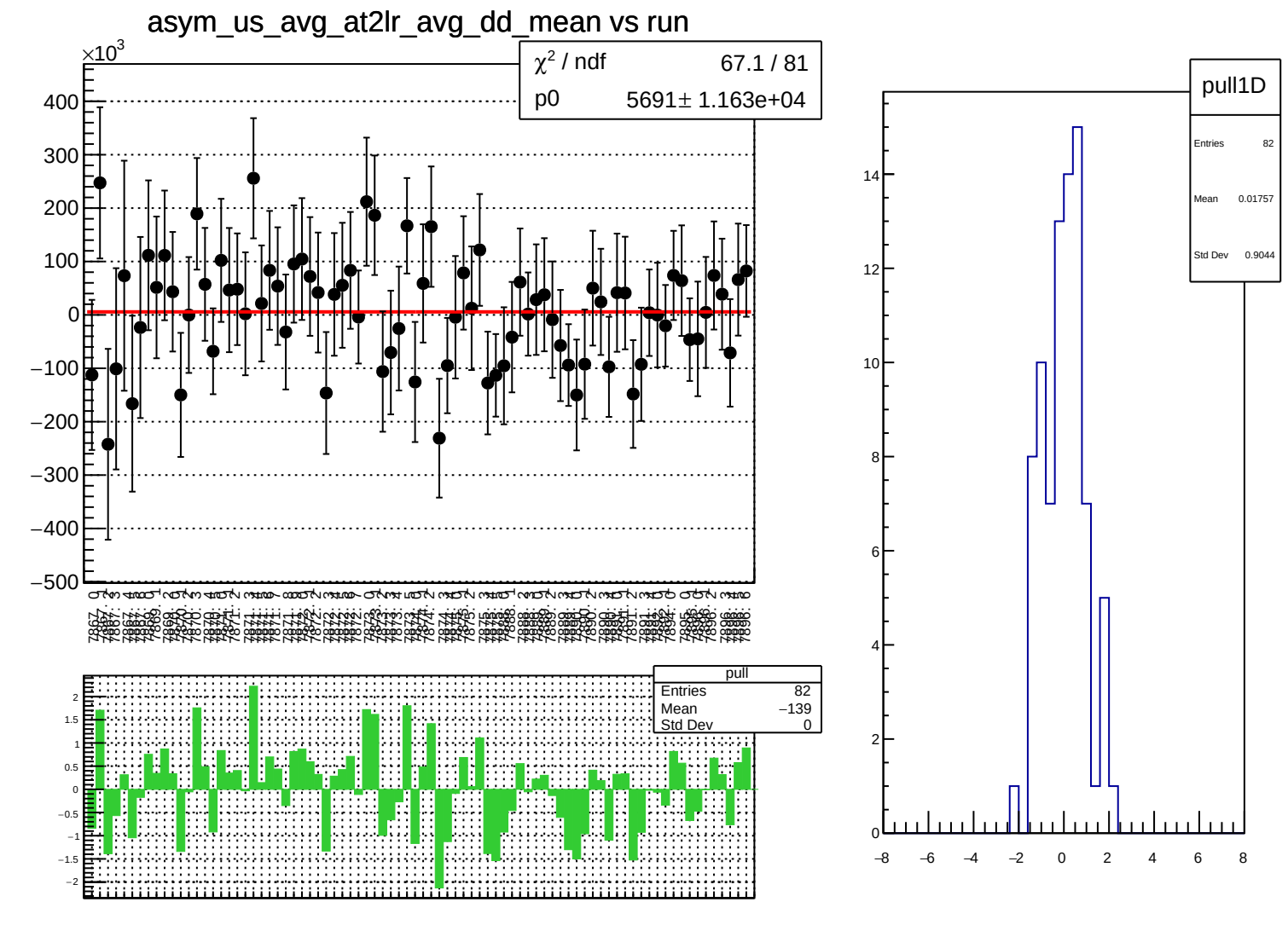

pull1D
Entries 82
Mean −0.003582
Std Dev 1.038

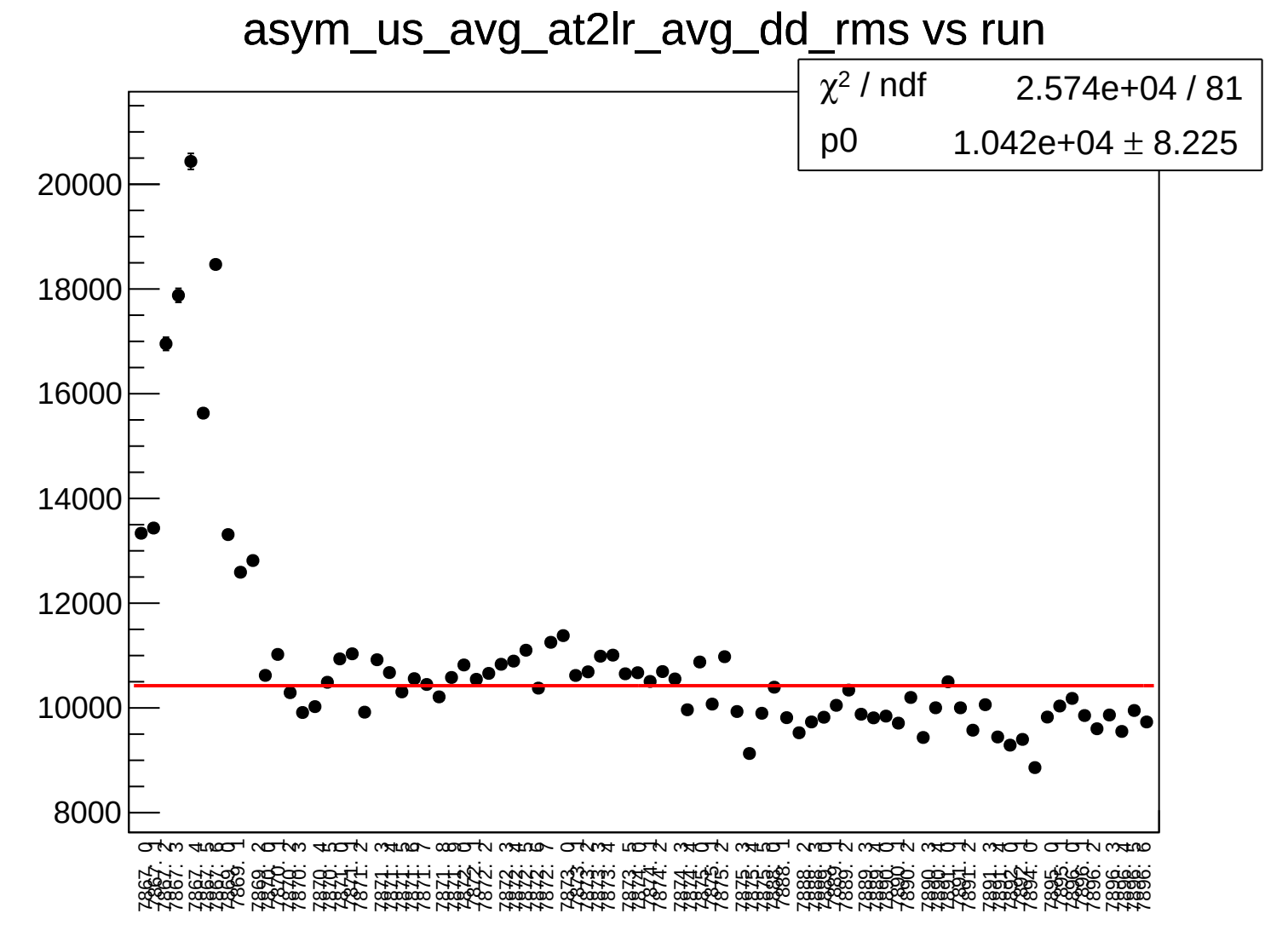

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 3345 / 81
p0 1768 ± 1.385
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

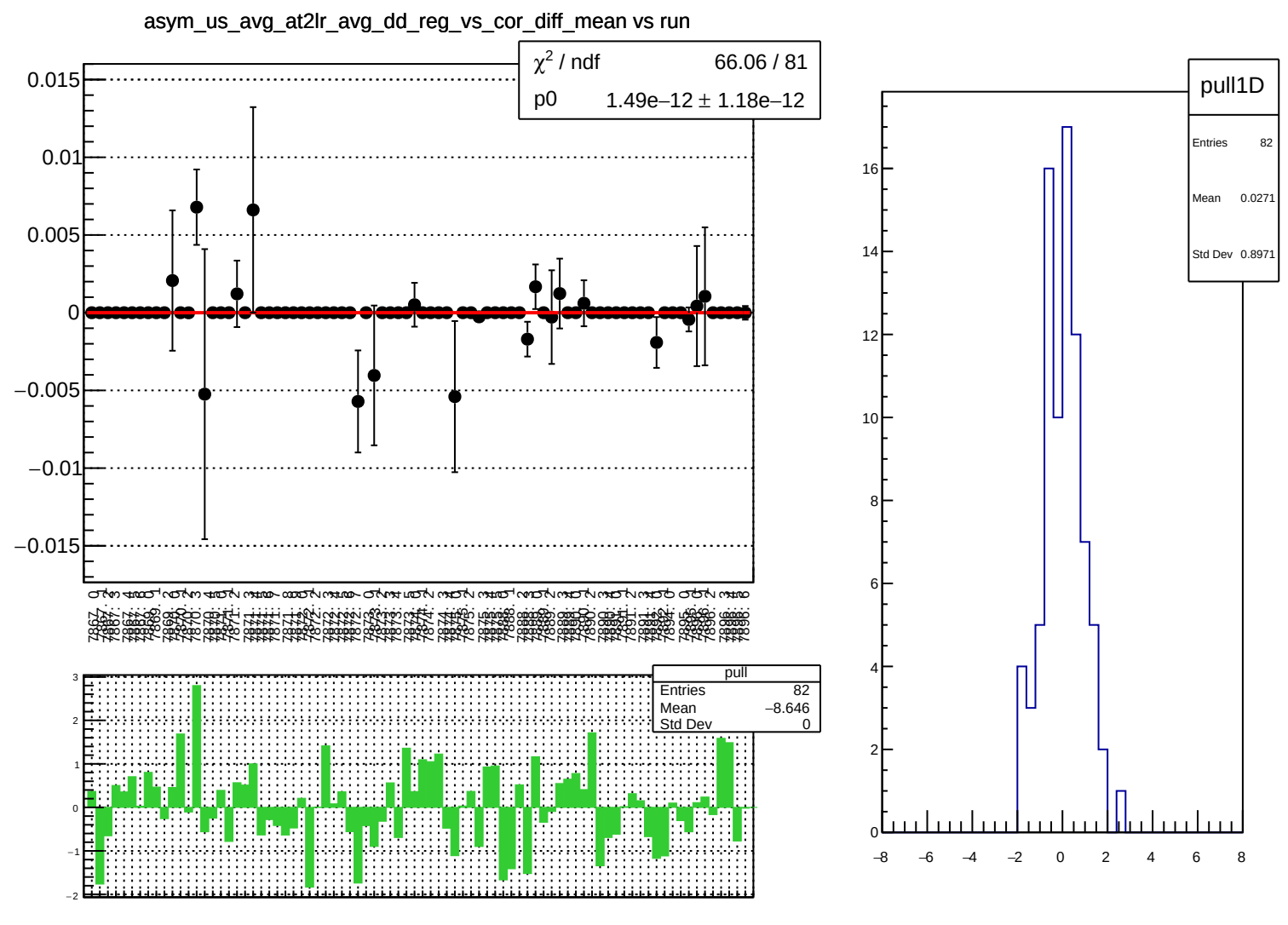

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66 / 81
p0 −5140 ± 1.148e+04
pull
Entries 82
Mean −103.4
Std Dev 0

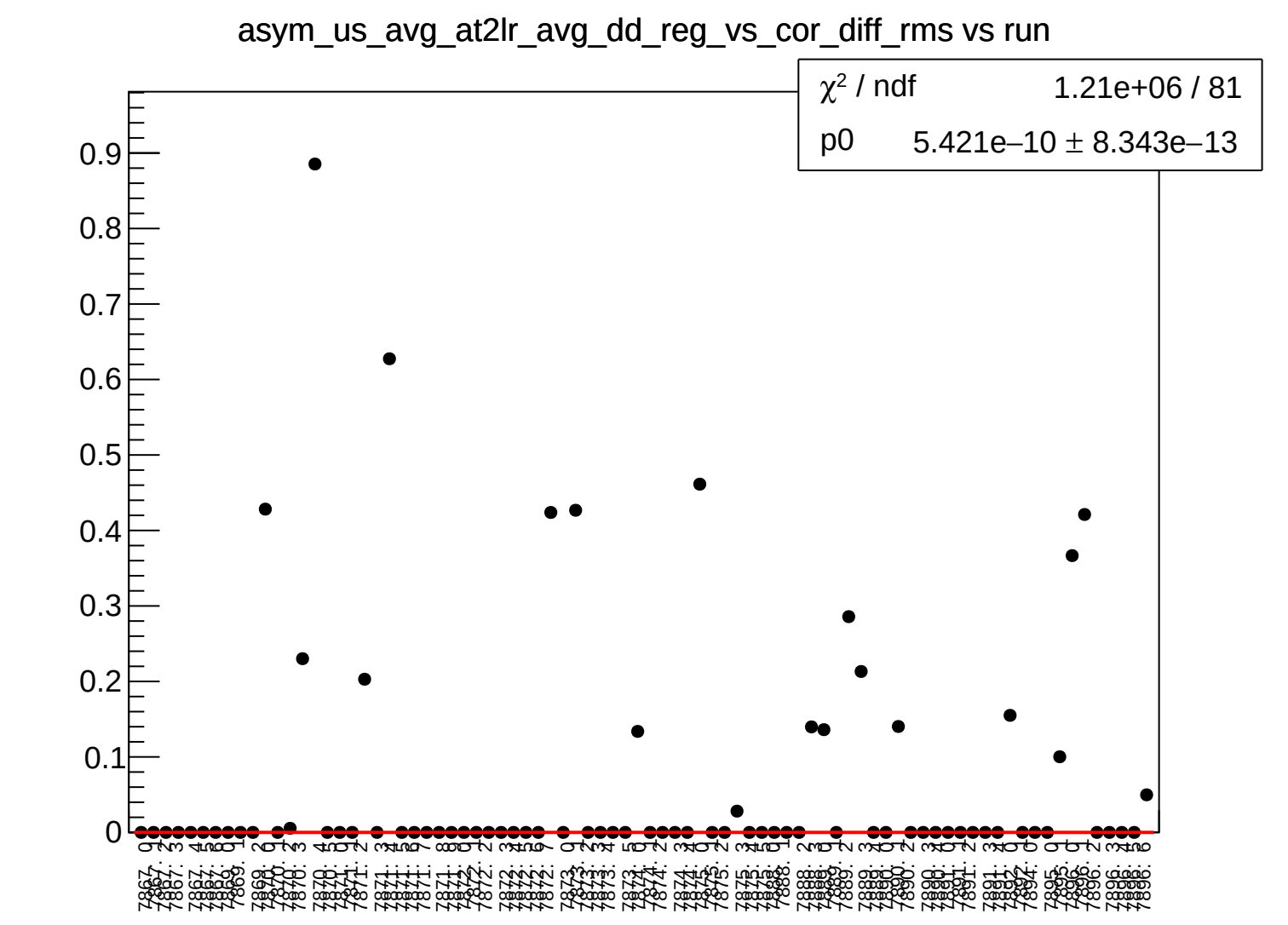

pull1D
Entries 82
Mean −0.01832
Std Dev 0.897

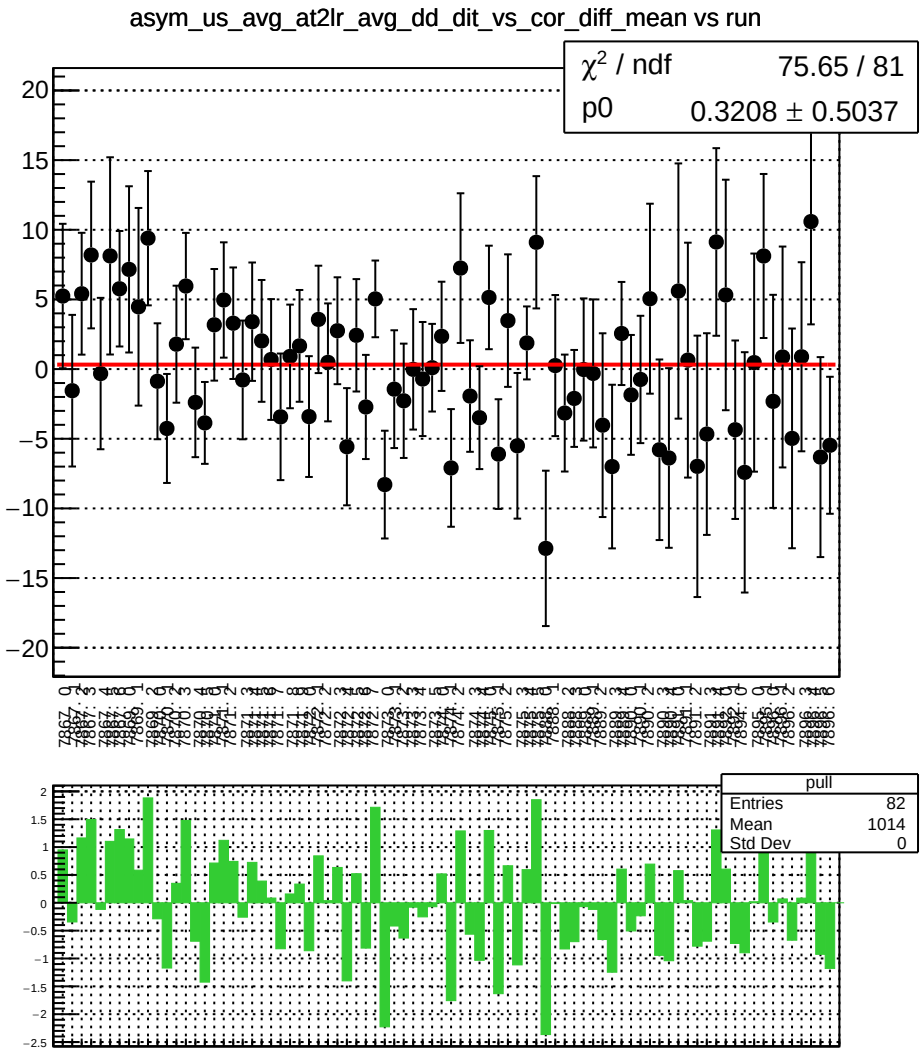

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.783e+04 / 81
p0 1.028e+04 ± 8.115
20000
18000
16000
14000
12000
10000
8000

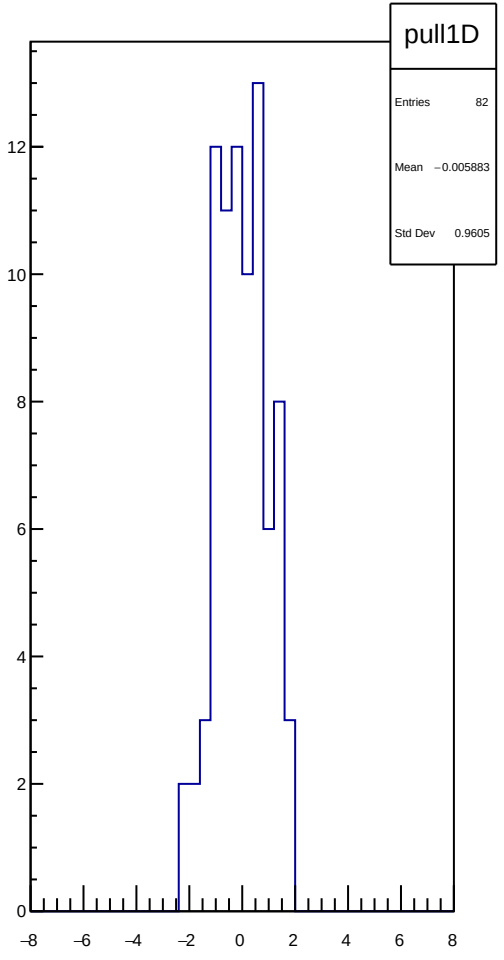

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 67.1 / 81
p0 5691± 1.163e+04
pull
Entries 82
Mean −139
Std Dev 0
pull1D
Entries 82
Mean 0.01757
Std Dev 0.9044

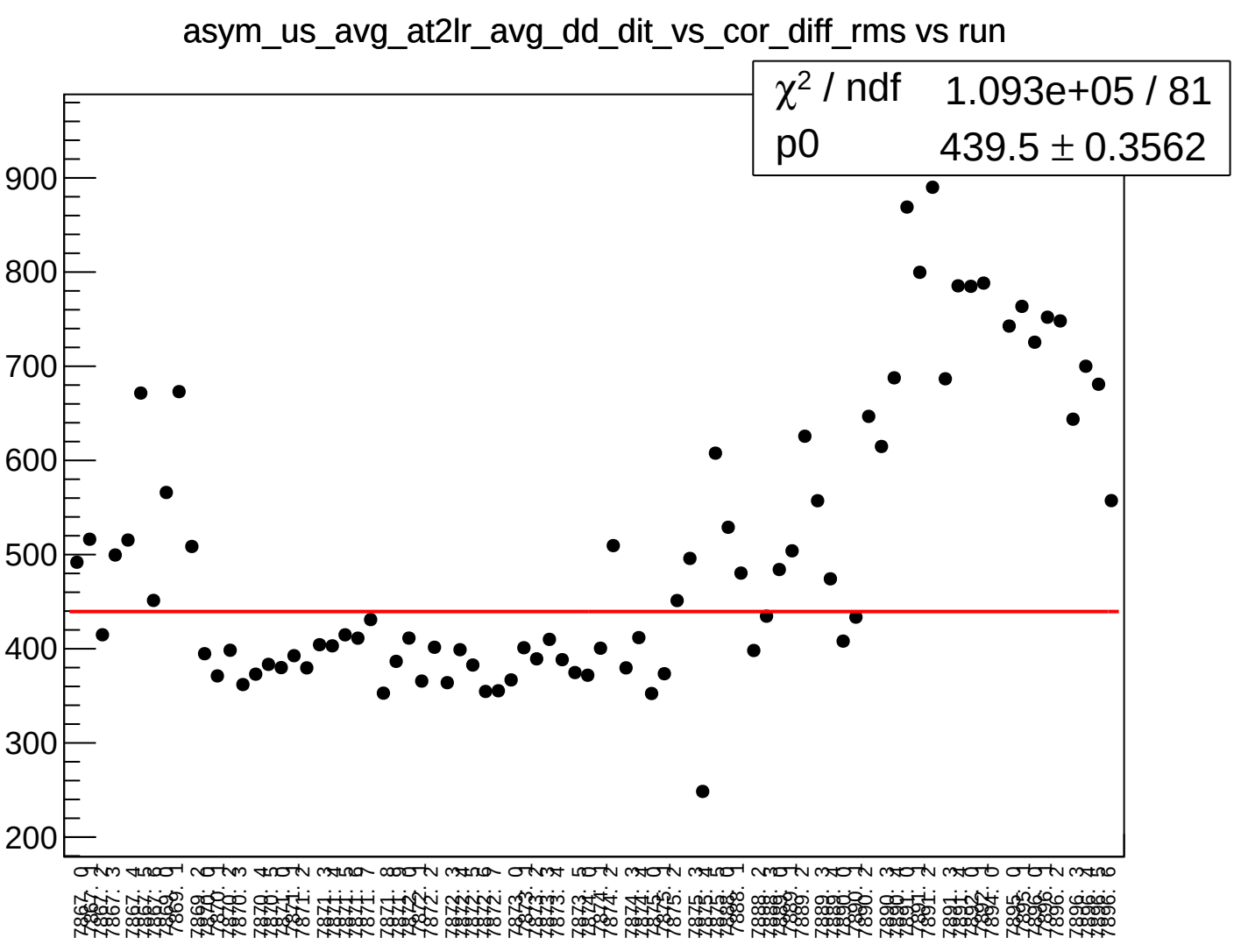

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.574e+04 / 81
p0 1.042e+04 ± 8.225
20000
18000
16000
14000
12000
10000
8000

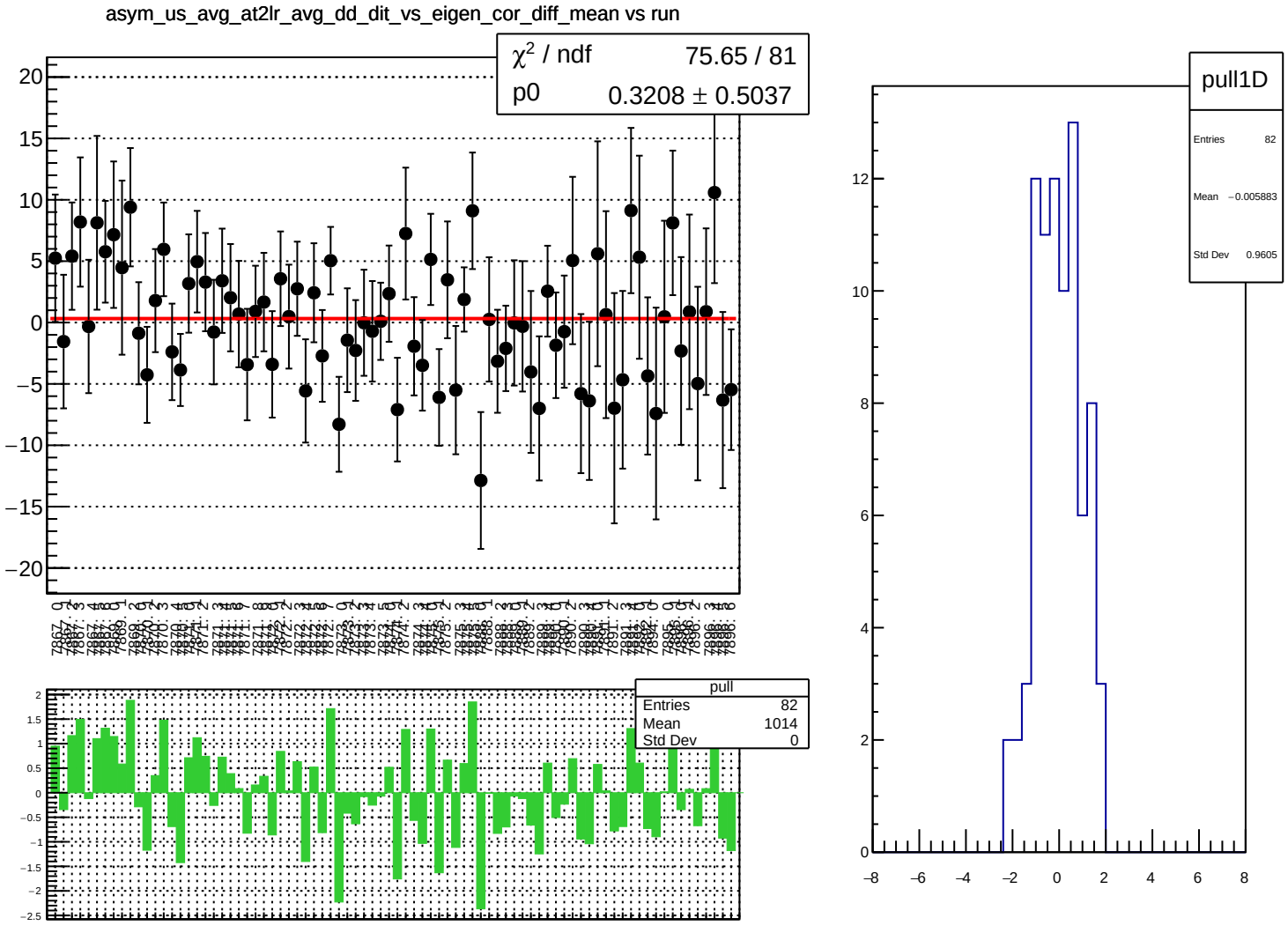

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.06 / 81
p0 1.49e−12 ± 1.18e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean −8.646
Std Dev 0
pull1D
Entries 82
Mean 0.0271
Std Dev 0.8971

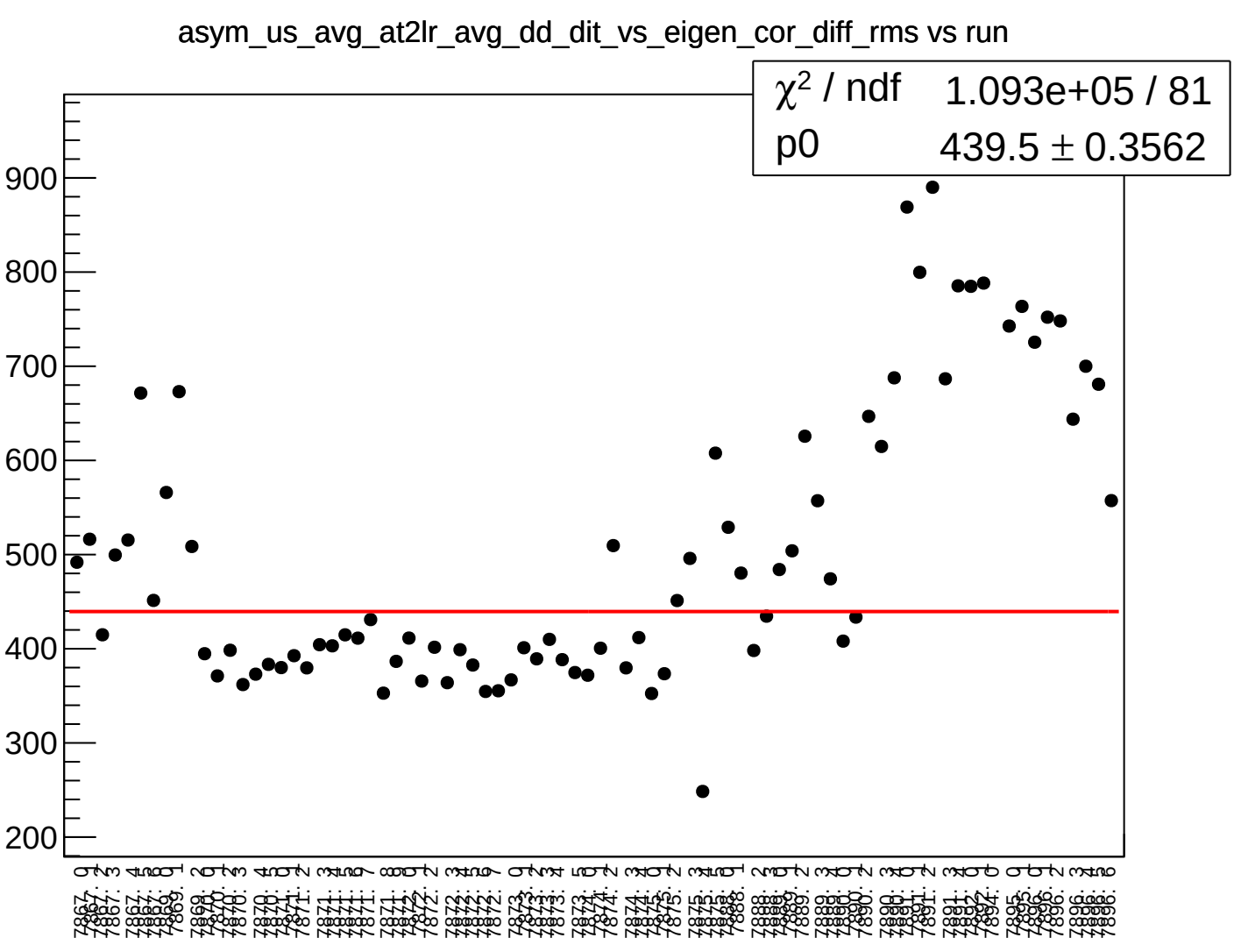

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.21e+06 / 81
p0 5.421e−10 ± 8.343e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

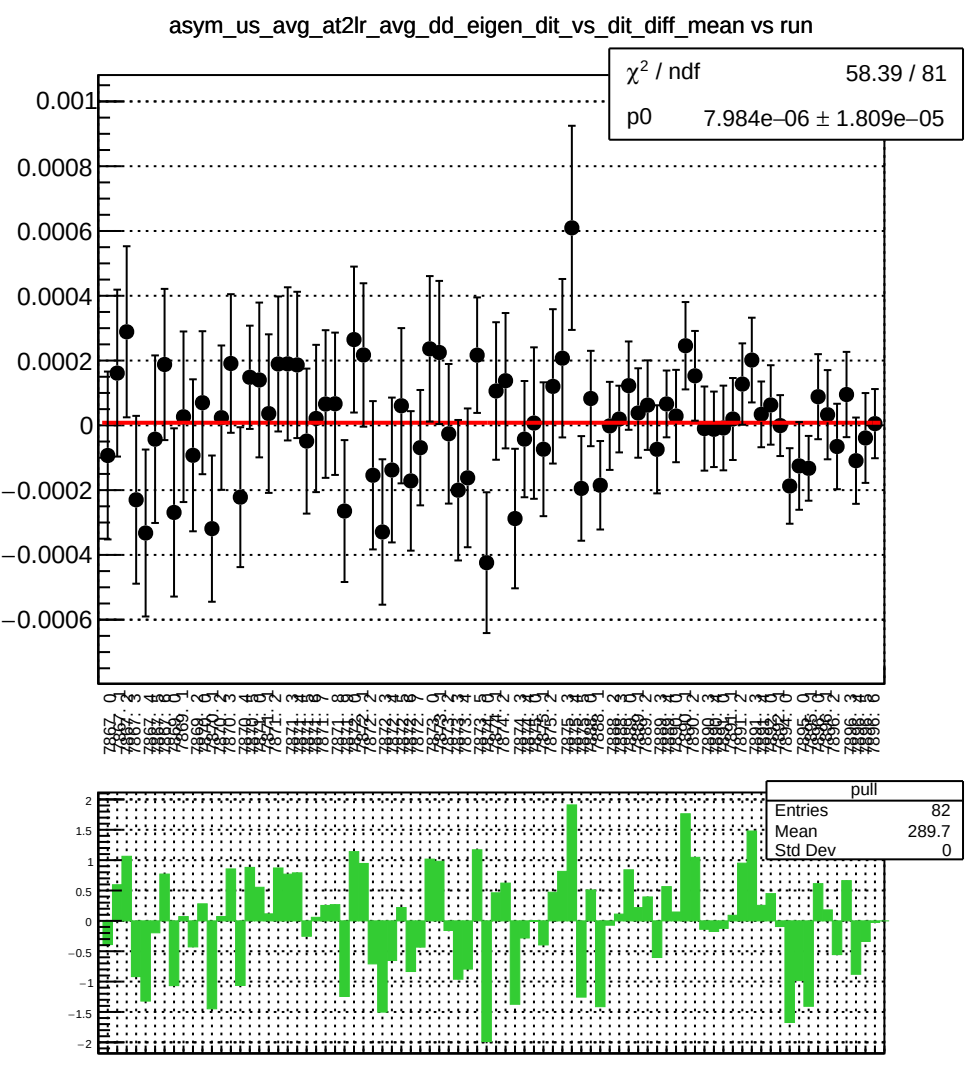

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.65 / 81
p0 0.3208 ± 0.5037
pull
Entries 82
Mean 1014
Std Dev 0

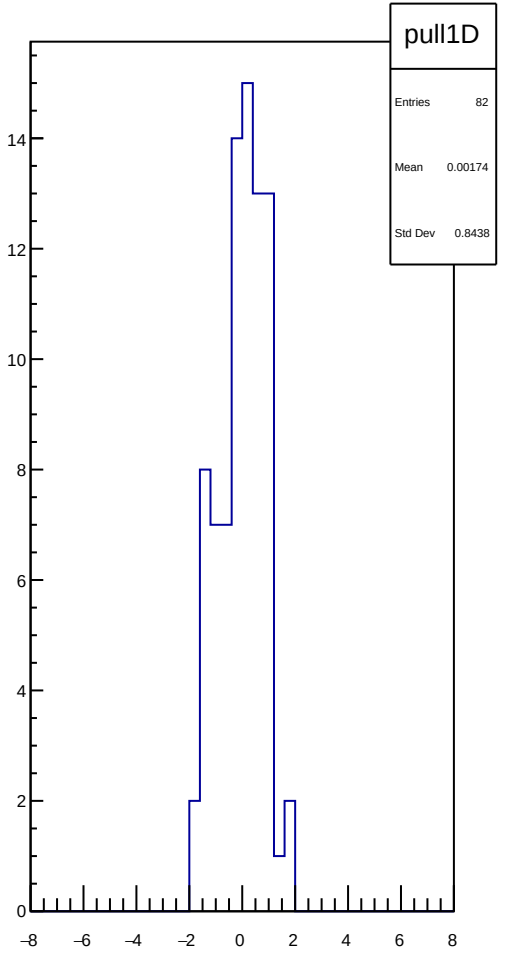

pull1D
Entries 82
Mean −0.005883
Std Dev 0.9605

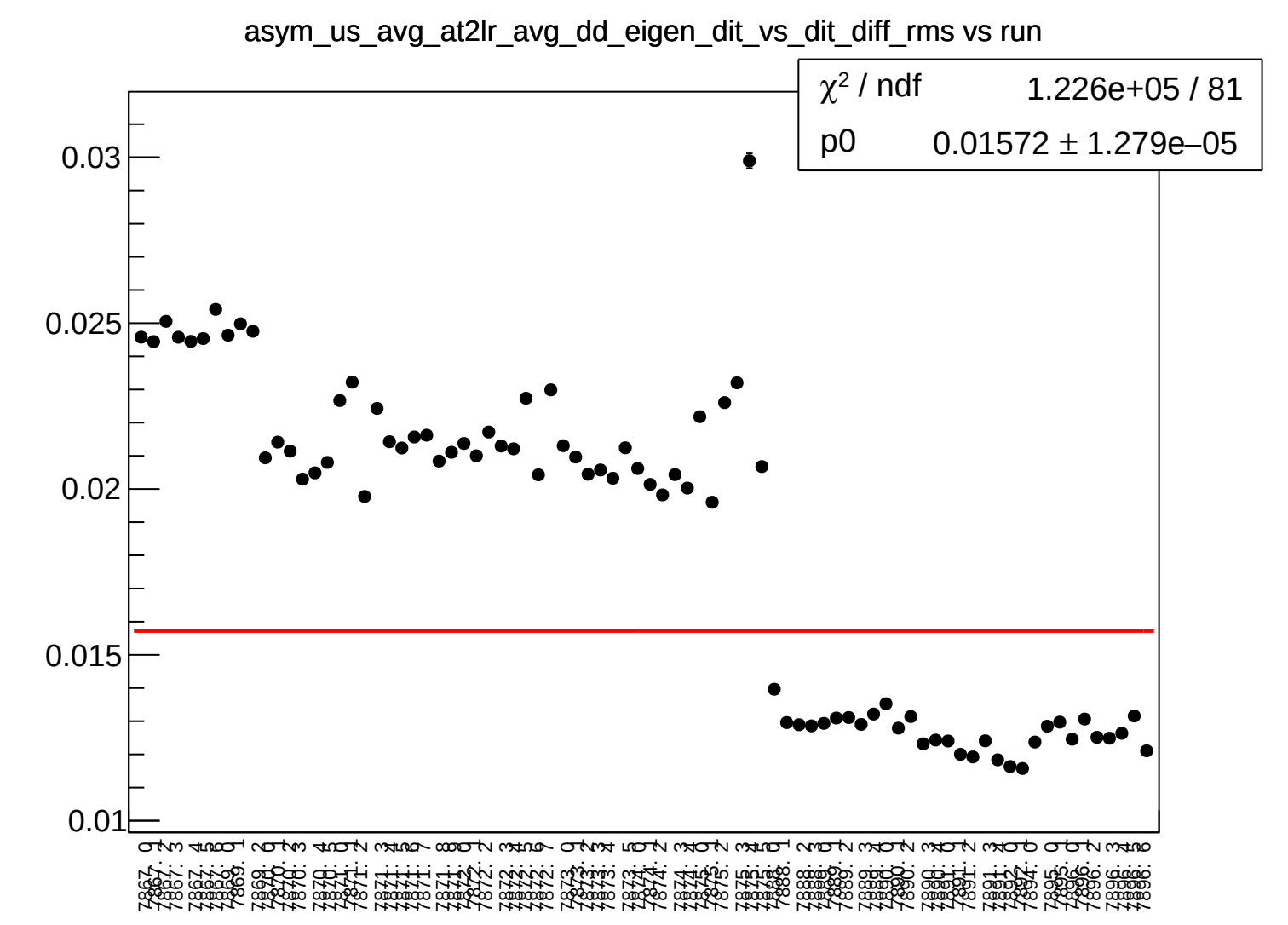

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 439.5 ± 0.3562
900
800
700
600
500
400
300
200

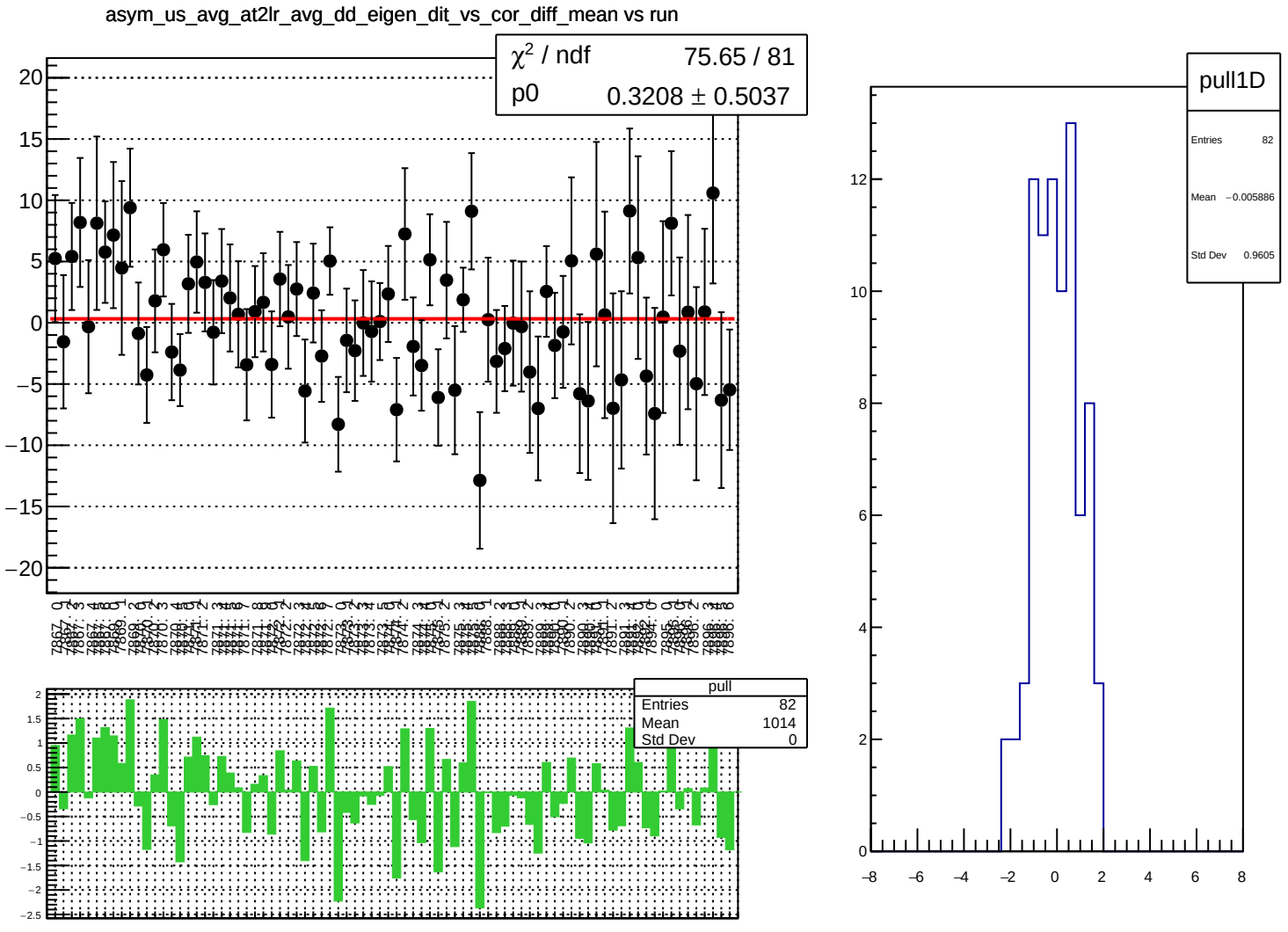

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.65 / 81
p0 0.3208 ± 0.5037
pull
Entries 82
Mean 1014
Std Dev 0
pull1D
Entries 82
Mean −0.005883
Std Dev 0.9605

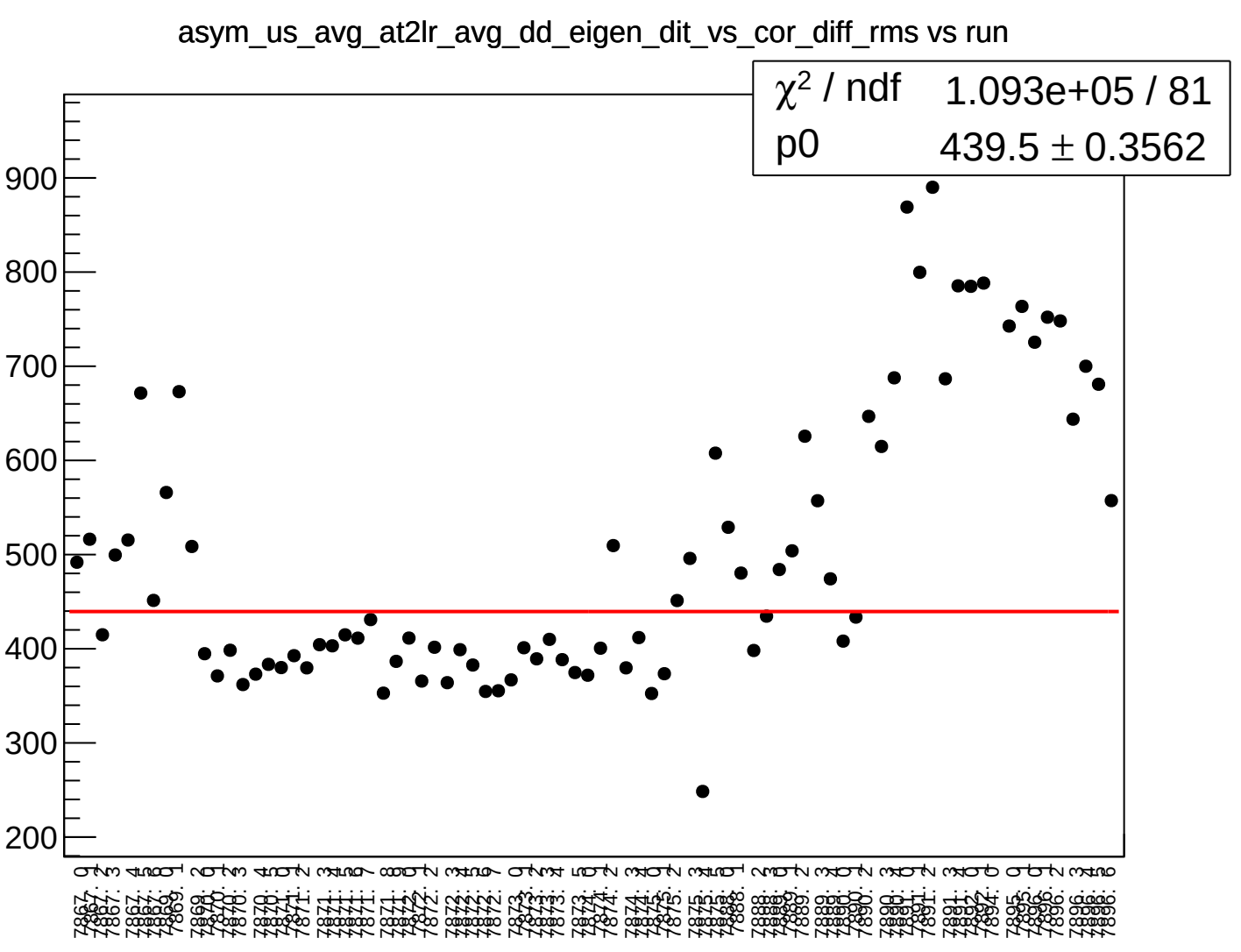

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 439.5 ± 0.3562
900
800
700
600
500
400
300
200

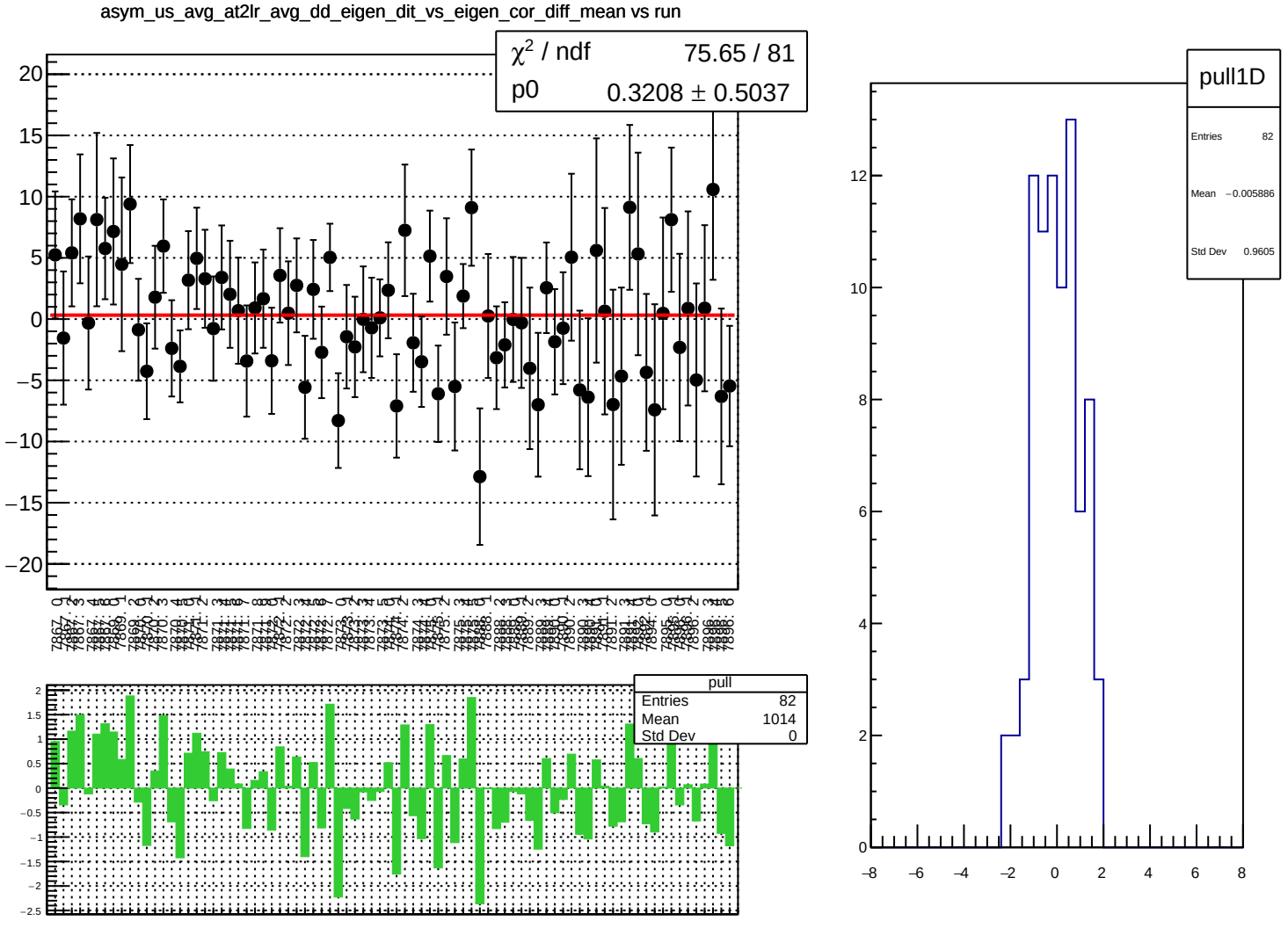

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 58.39 / 81
p0 7.984e−06 ± 1.809e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 82
Mean 289.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

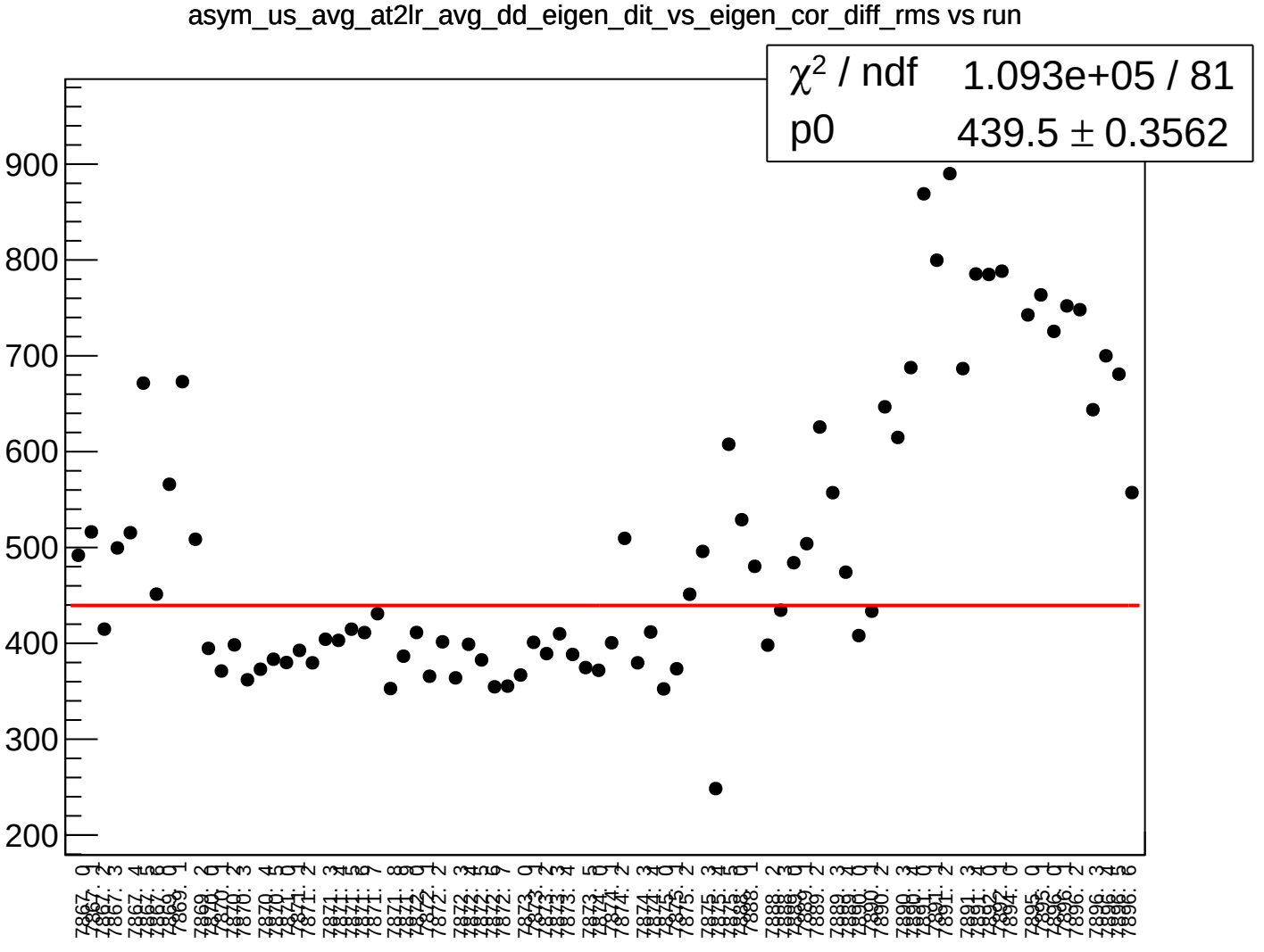

pull1D
Entries 82
Mean 0.00174
Std Dev 0.8438
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

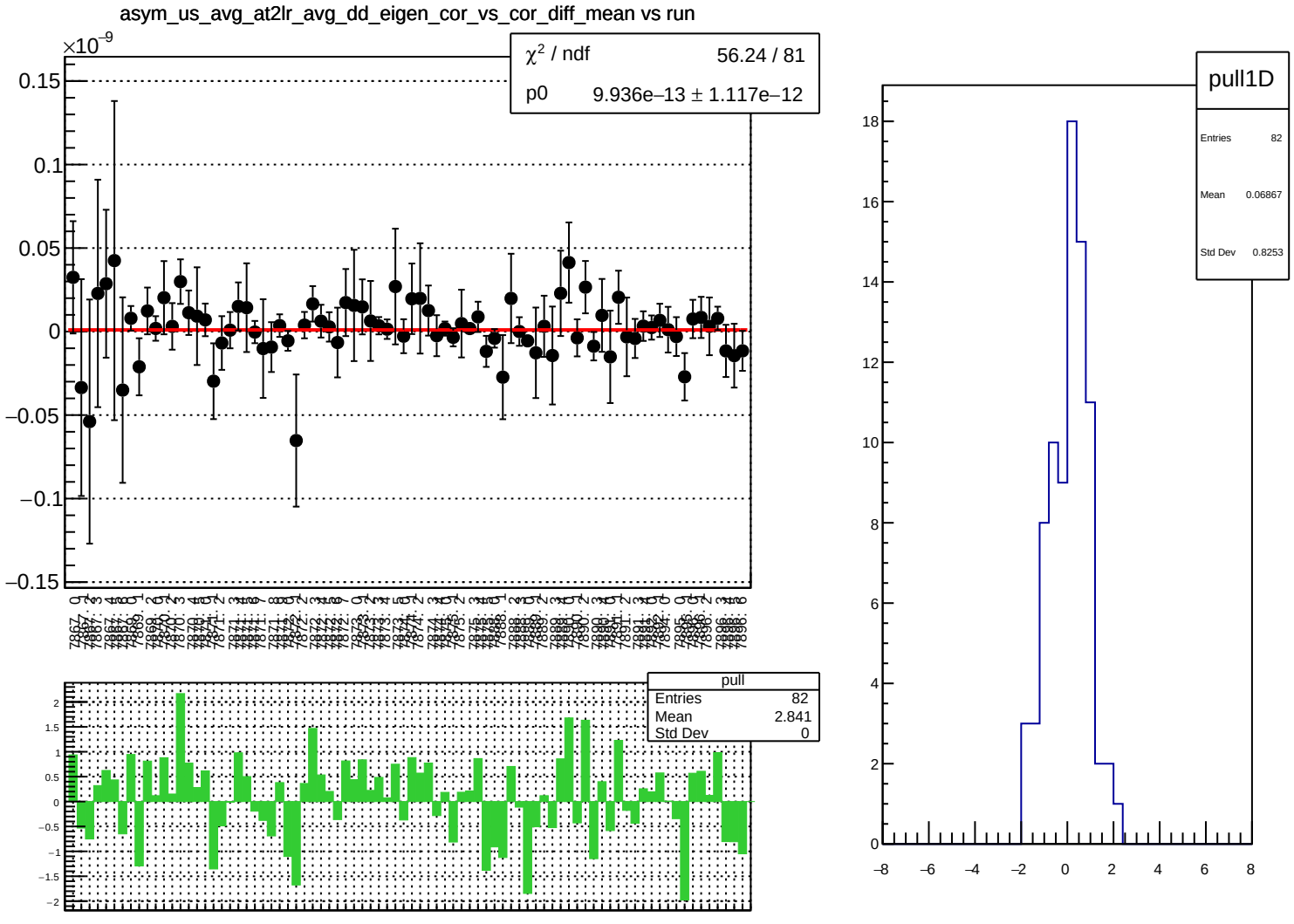

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.226e+05 / 81
p0 0.01572 ± 1.279e−05
0.03
0.025
0.02
0.015
0.01

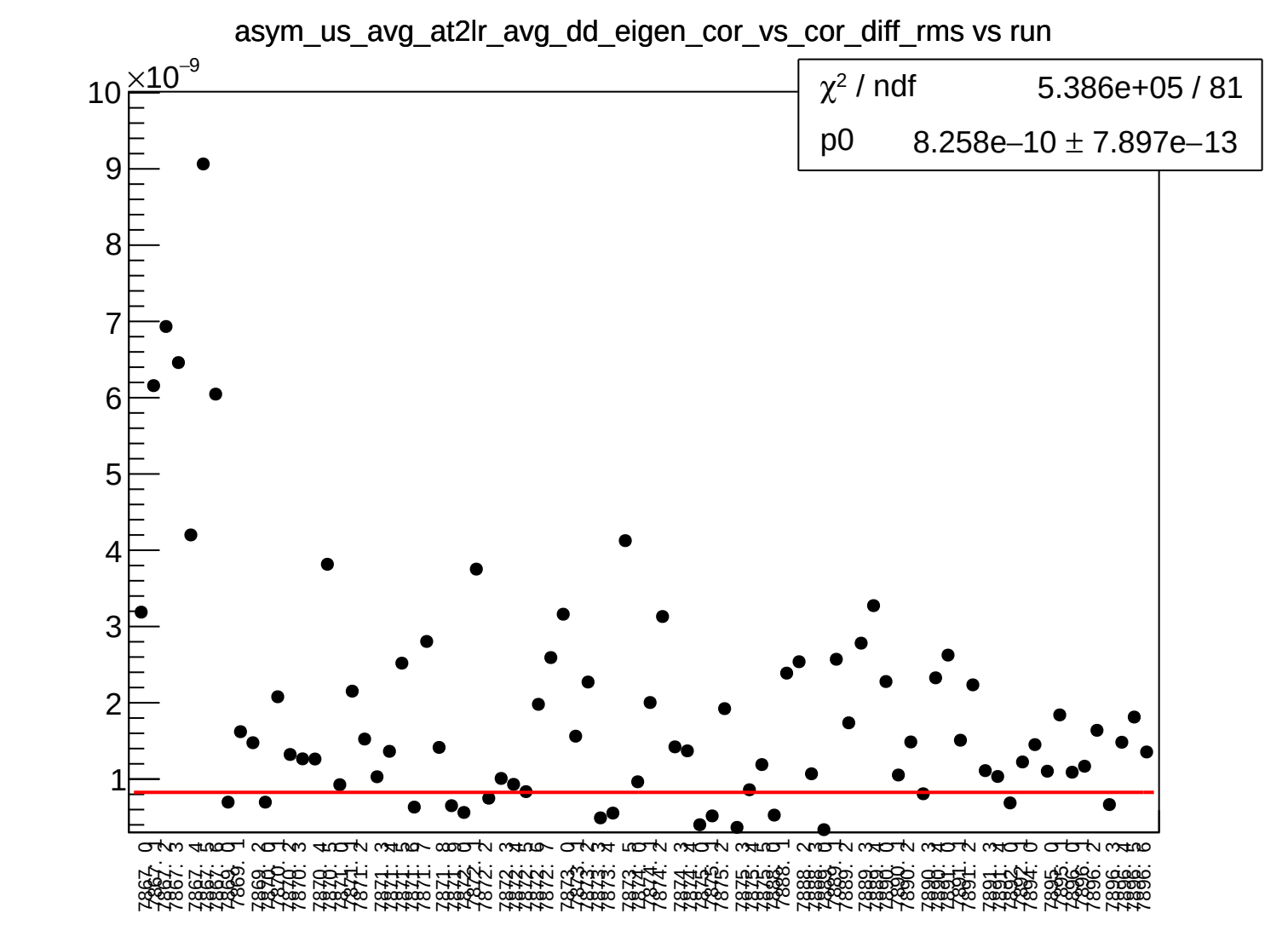

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.65 / 81
p0 0.3208 ± 0.5037
pull
Entries 82
Mean 1014
Std Dev 0
pull1D
Entries 82
Mean −0.005886
Std Dev 0.9605

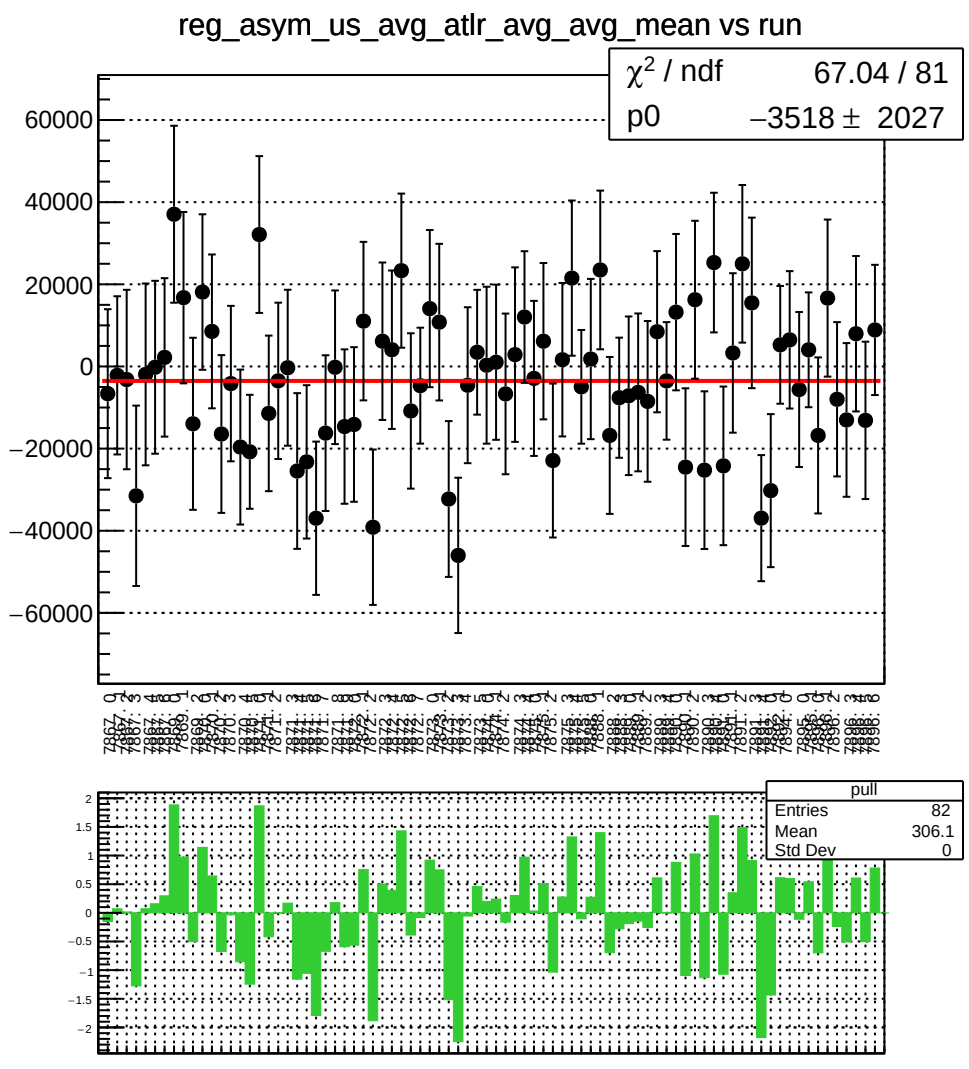

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 439.5 ± 0.3562
900
800
700
600
500
400
300
200

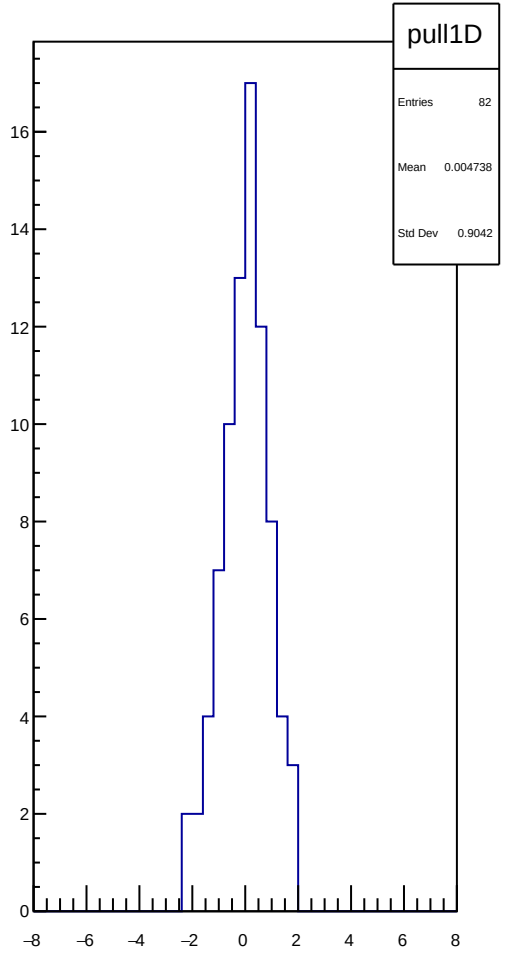

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.65 / 81
p0 0.3208 ± 0.5037
pull
Entries 82
Mean 1014
Std Dev 0
pull1D
Entries 82
Mean −0.005886
Std Dev 0.9605

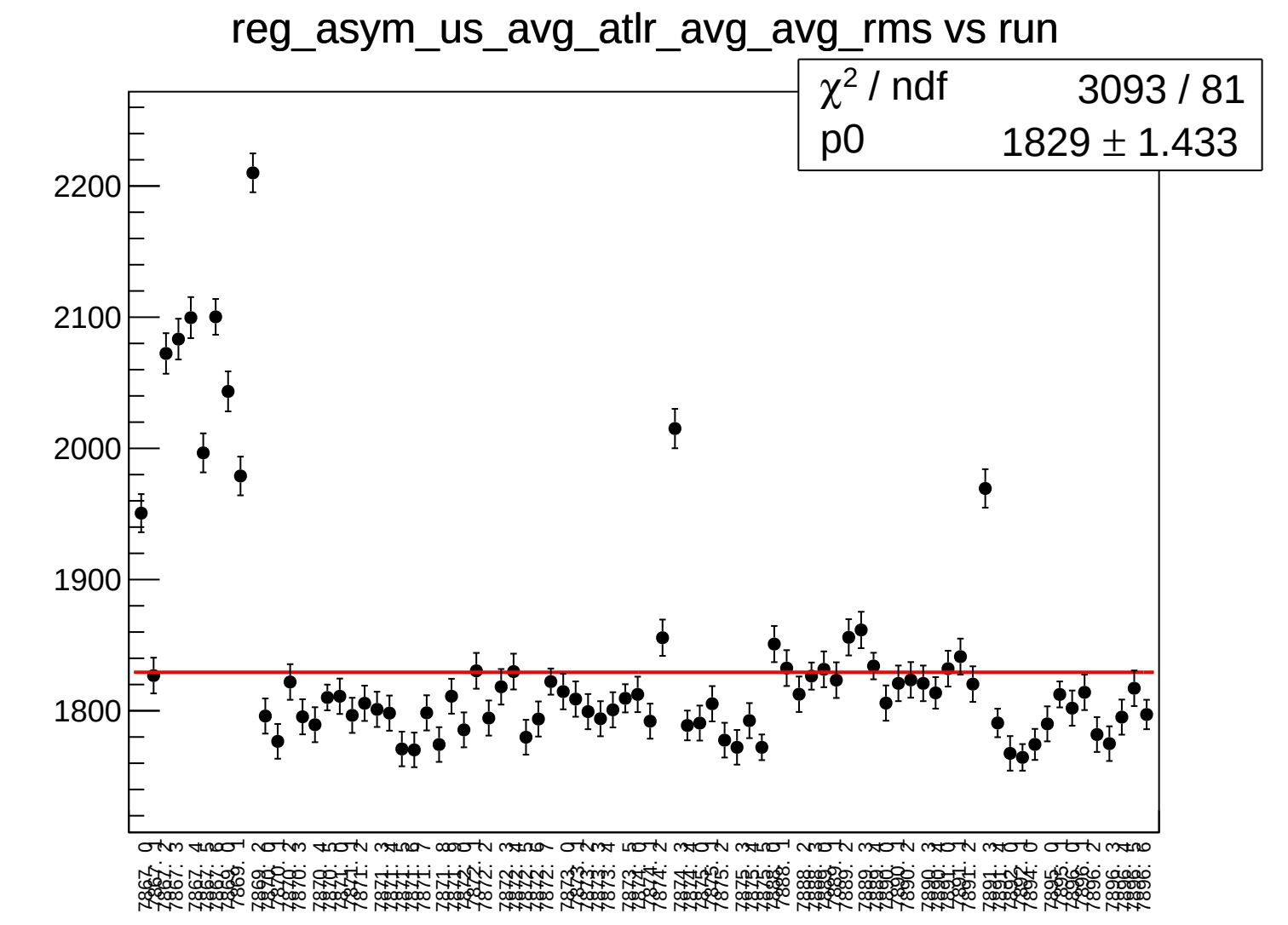

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 439.5 ± 0.3562
900
800
700
600
500
400
300
200

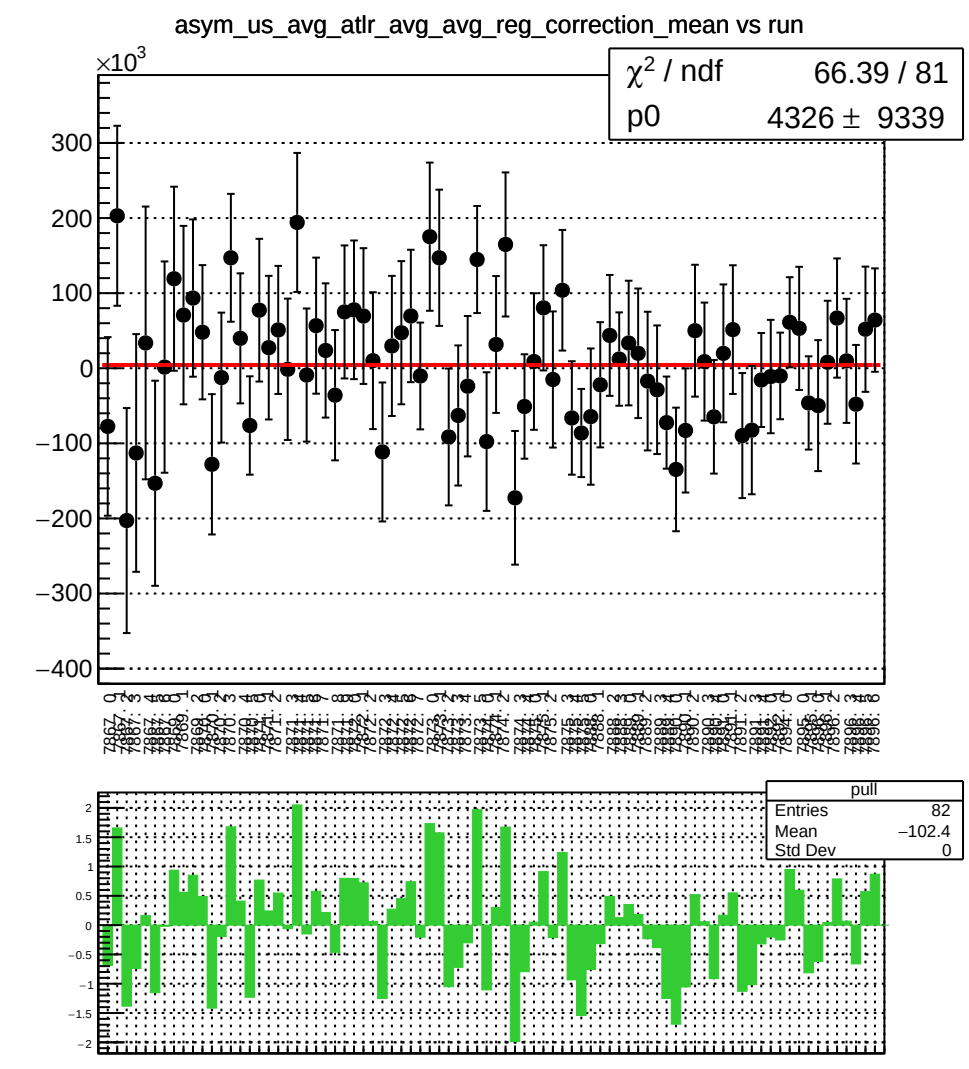

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 56.24 / 81
p0 9.936e−13 ± 1.117e−12
pull
Entries 82
Mean 2.841
Std Dev 0
pull1D
Entries 82
Mean 0.06867
Std Dev 0.8253

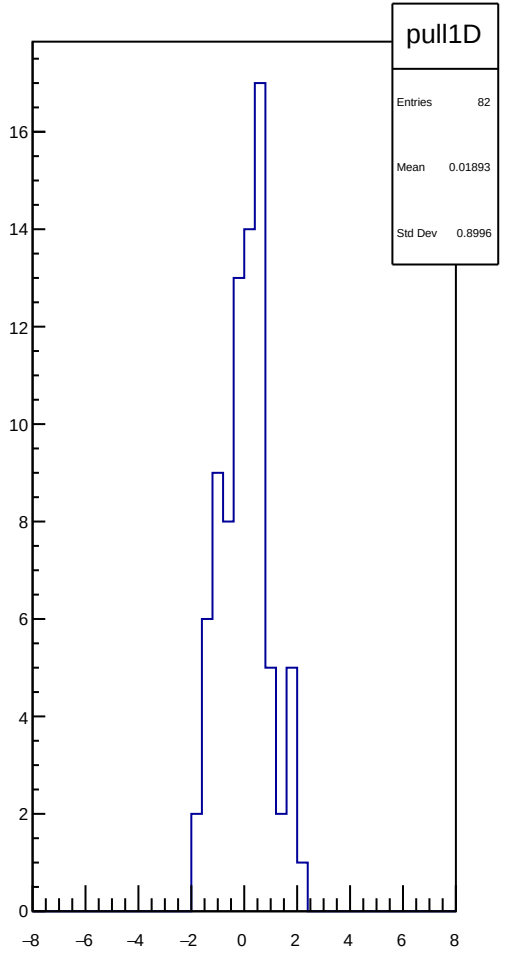

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.386e+05 / 81
p0 8.258e−10 ± 7.897e−13
×10⁻⁹
10
9
8
7
6
5
4
3
2
1

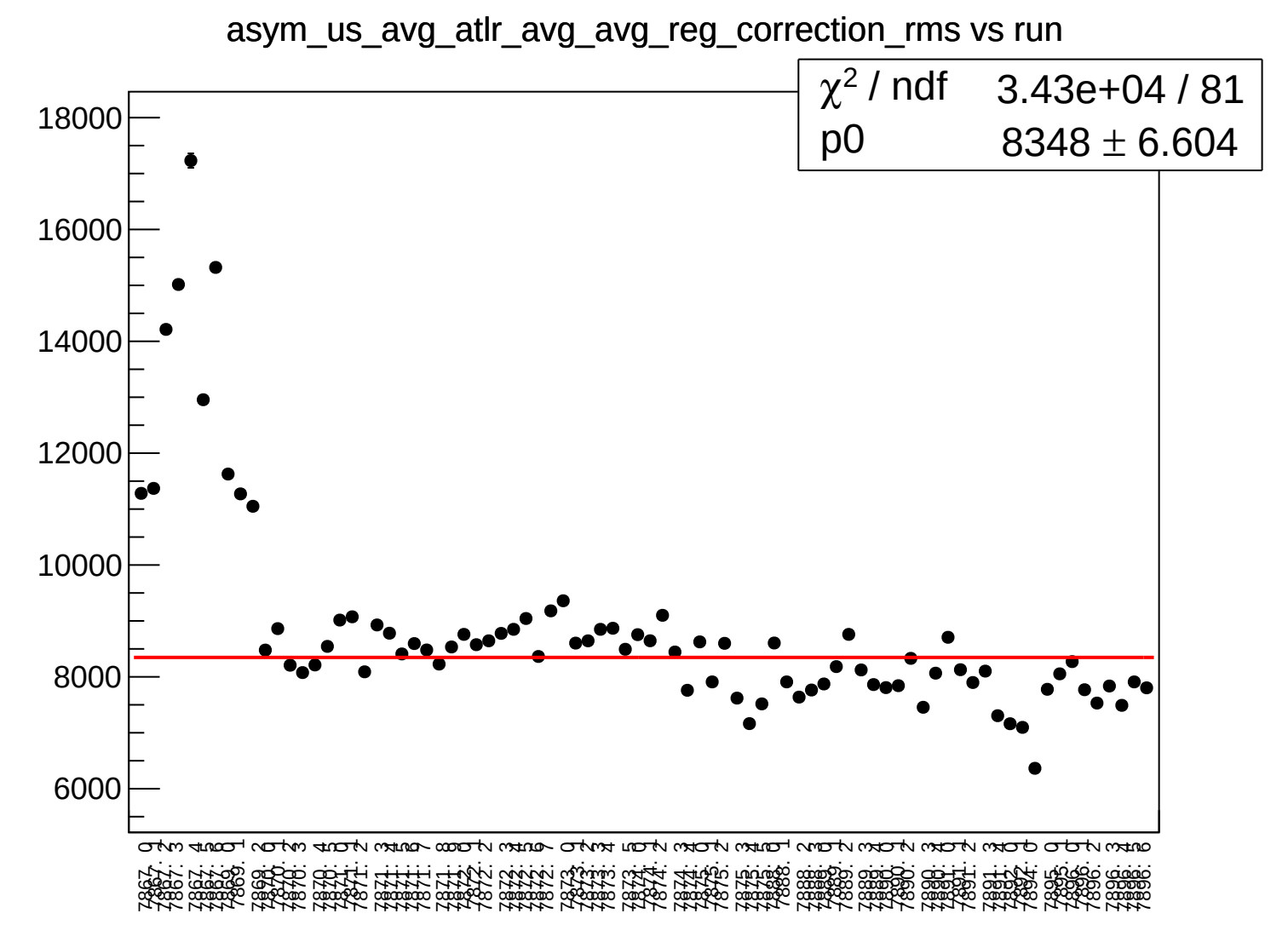

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 67.04 / 81
p0 −3518 ± 2027
pull
Entries 82
Mean 306.1
Std Dev 0

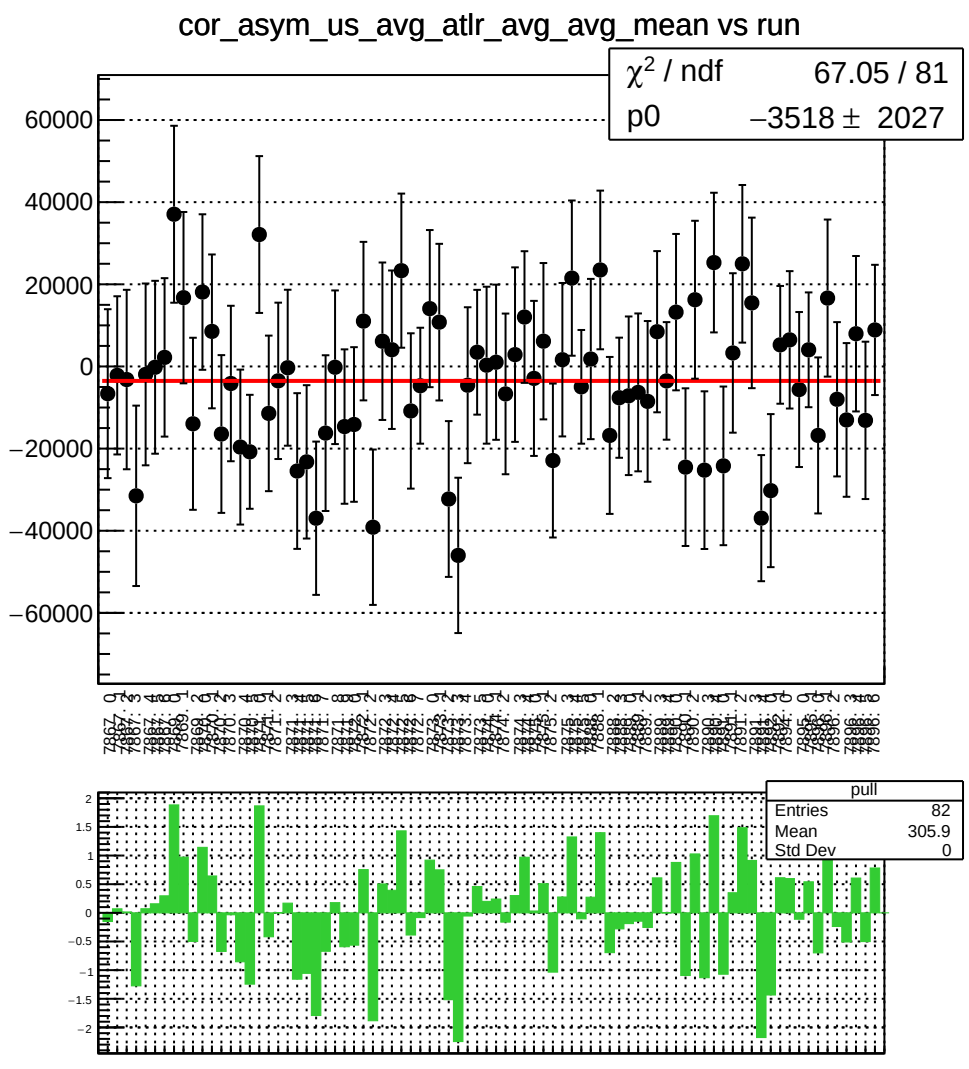

pull1D
Entries 82
Mean 0.004738
Std Dev 0.9042

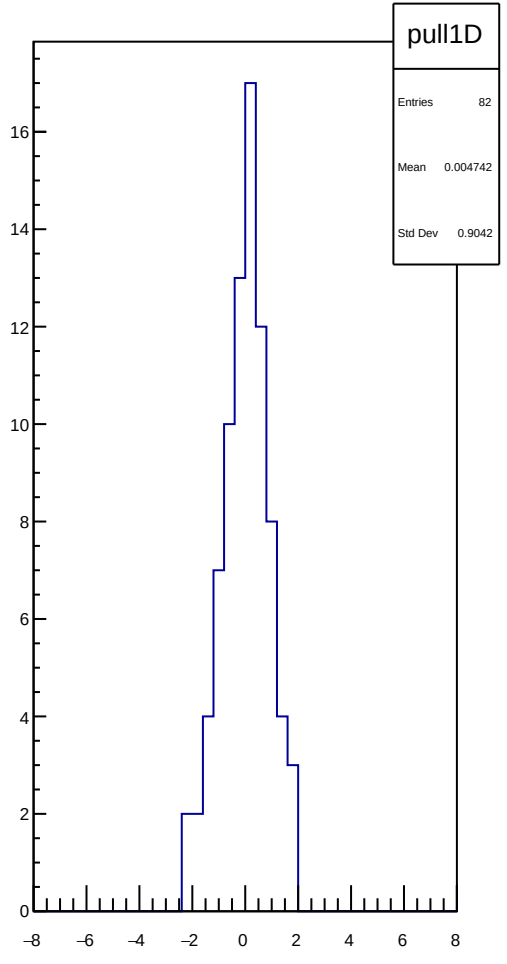

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 3093 / 81
p0 1829 ± 1.433
2200
2100
2000
1900
1800

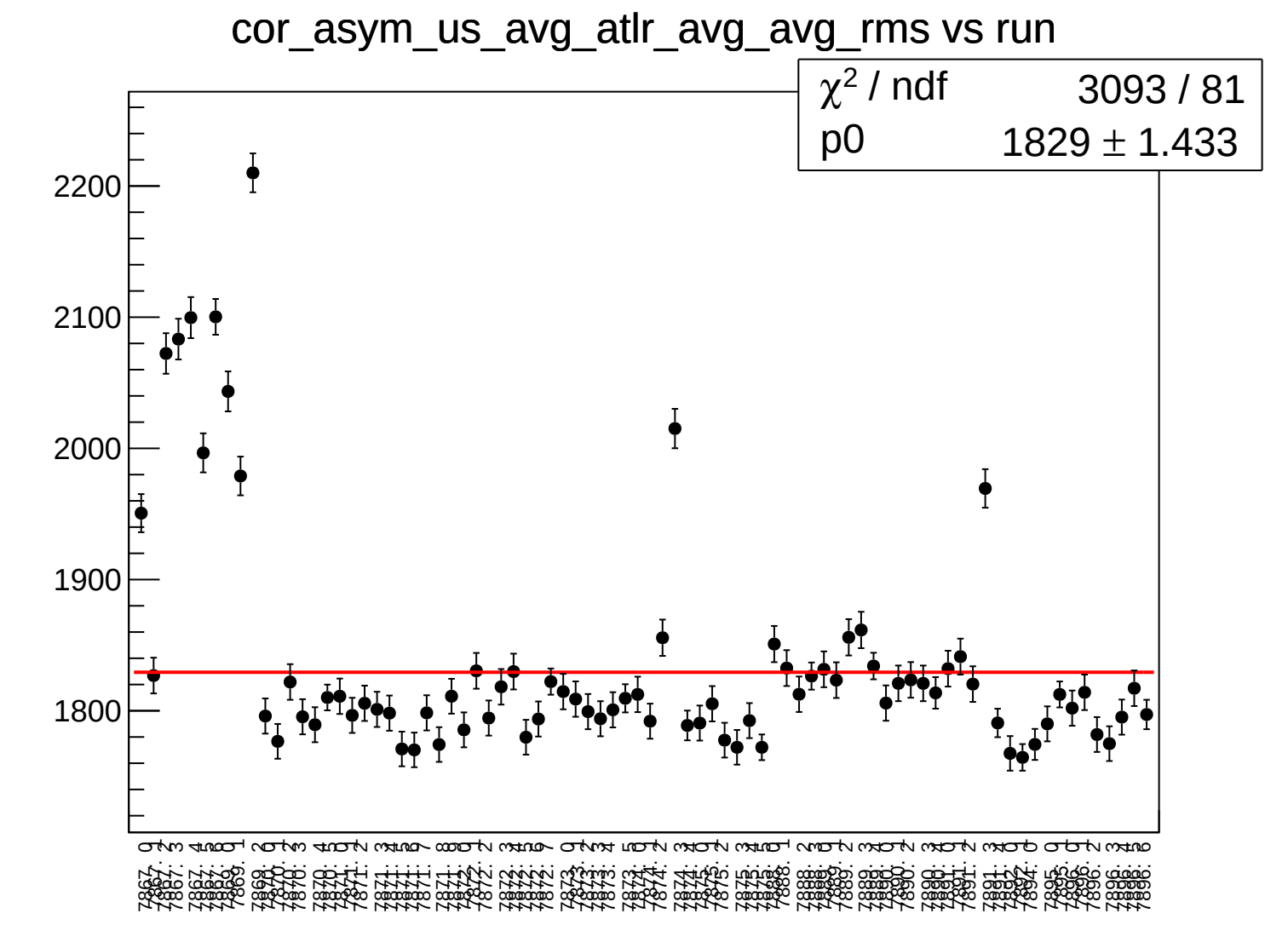

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 66.39 / 81
p0 4326 ± 9339
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean −102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

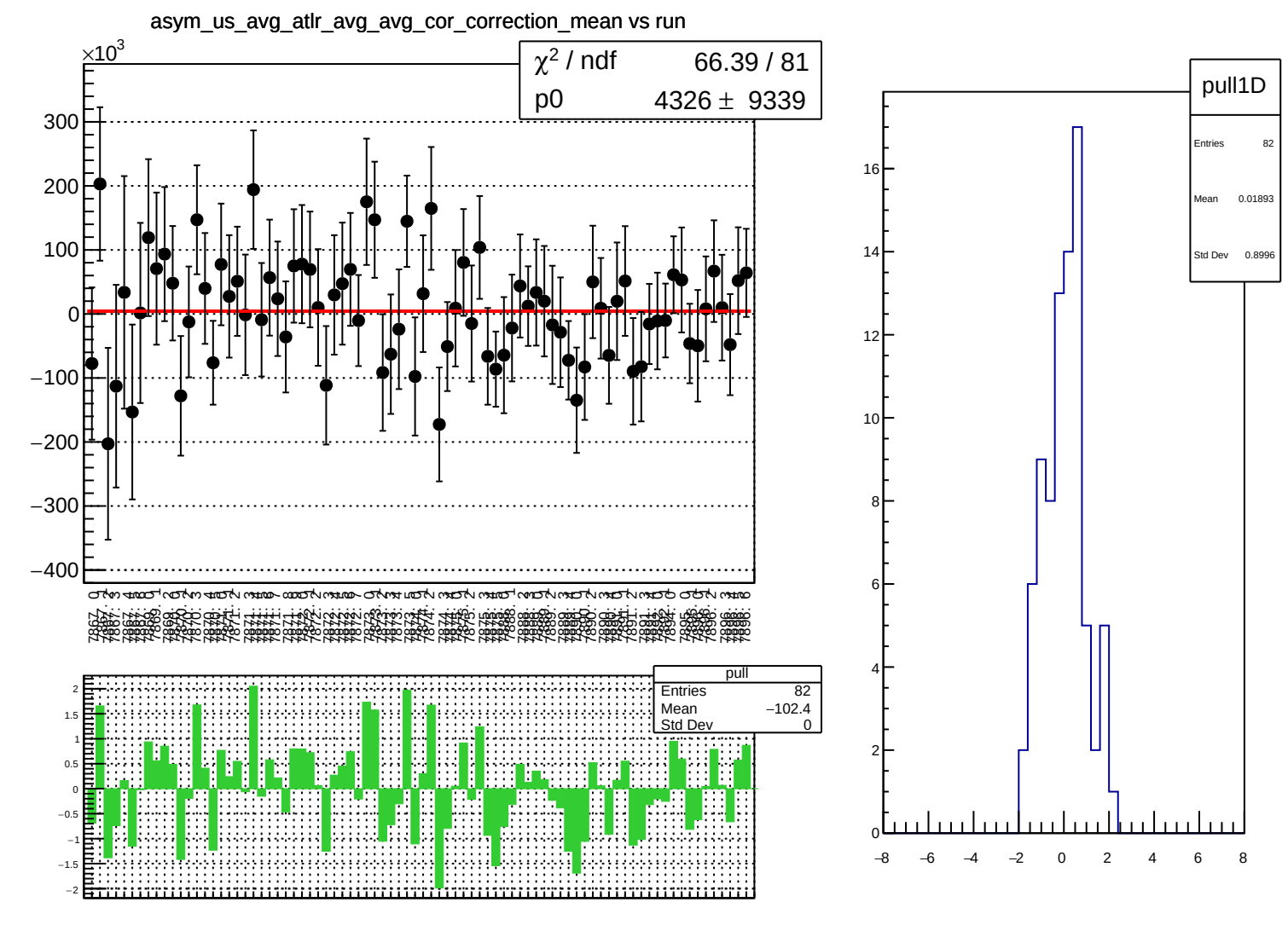

pull1D
Entries 82
Mean 0.01893
Std Dev 0.8996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

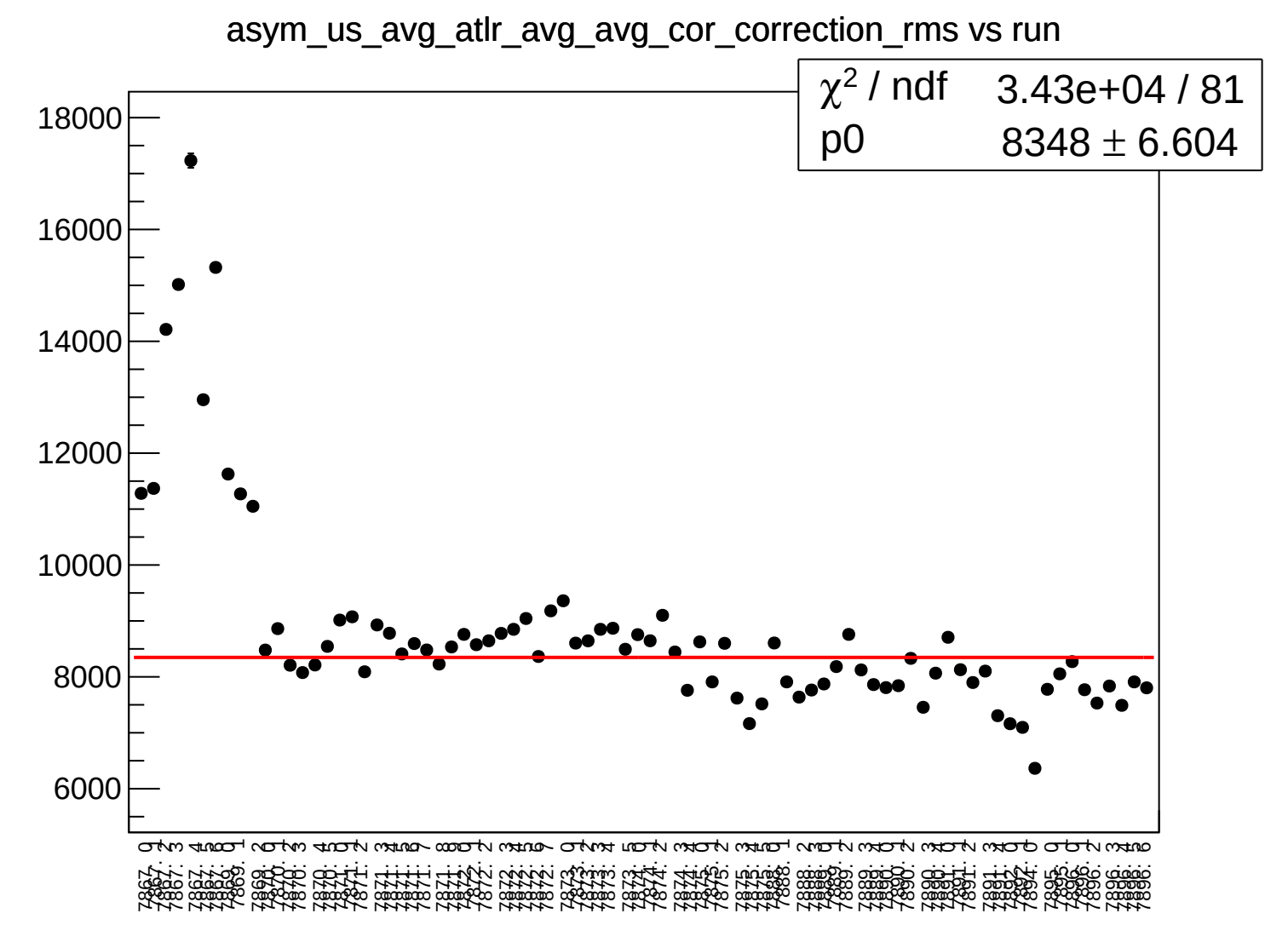

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.43e+04 / 81
p0 8348 ± 6.604
18000
16000
14000
12000
10000
8000
6000

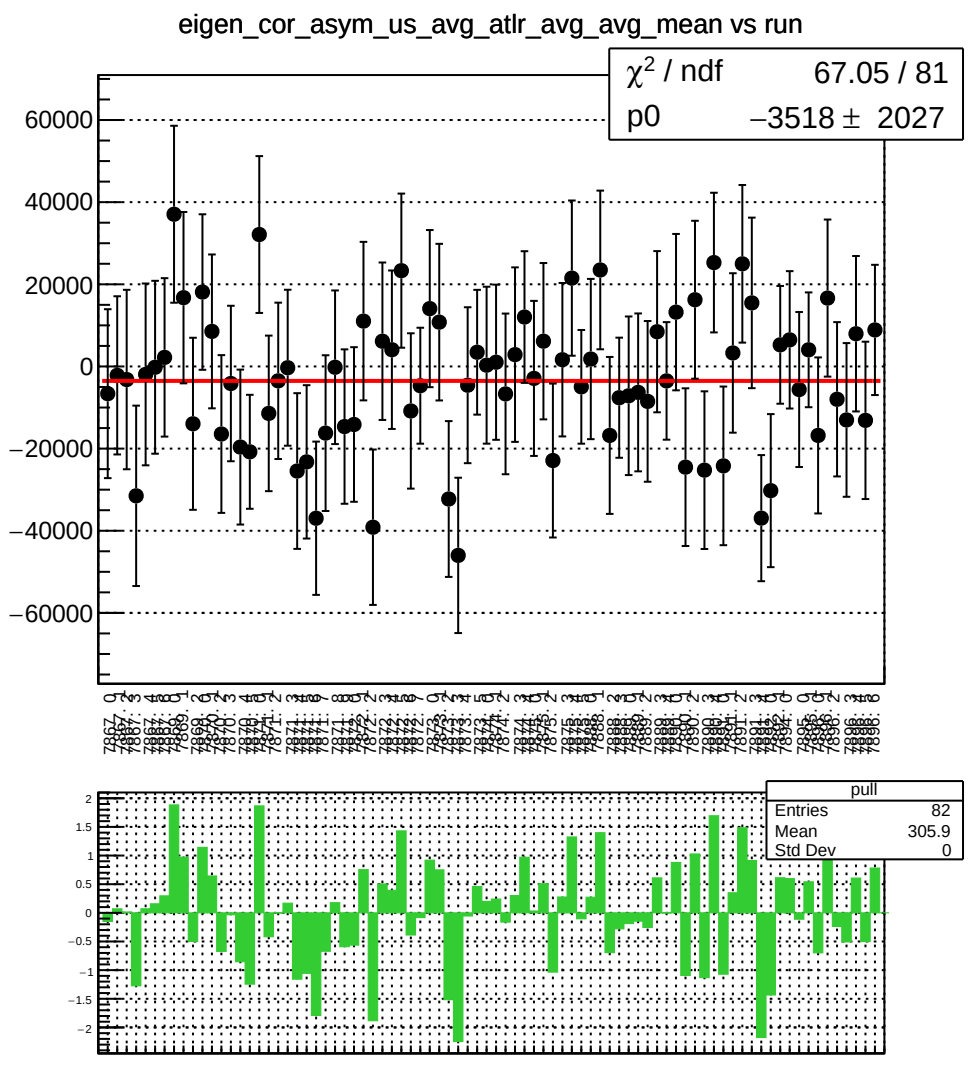

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 67.05 / 81
p0 −3518 ± 2027
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 305.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

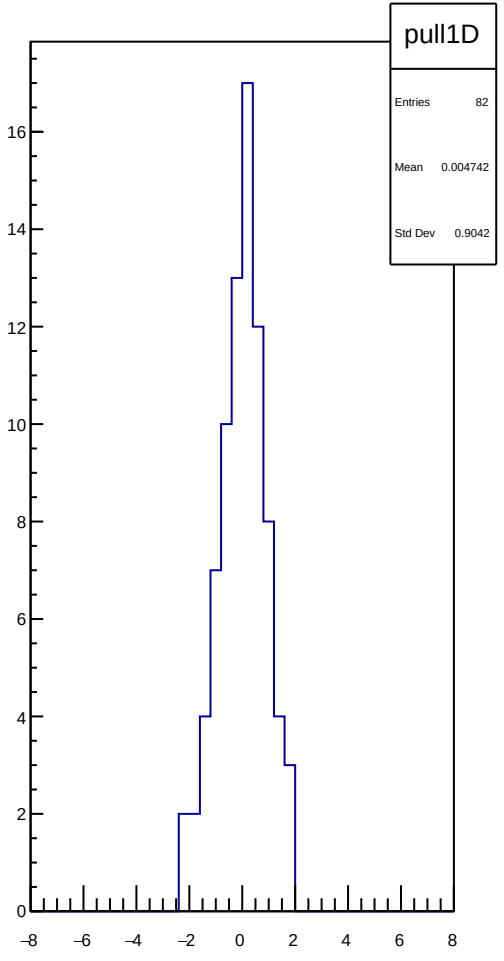

pull1D
Entries 82
Mean 0.004742
Std Dev 0.9042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

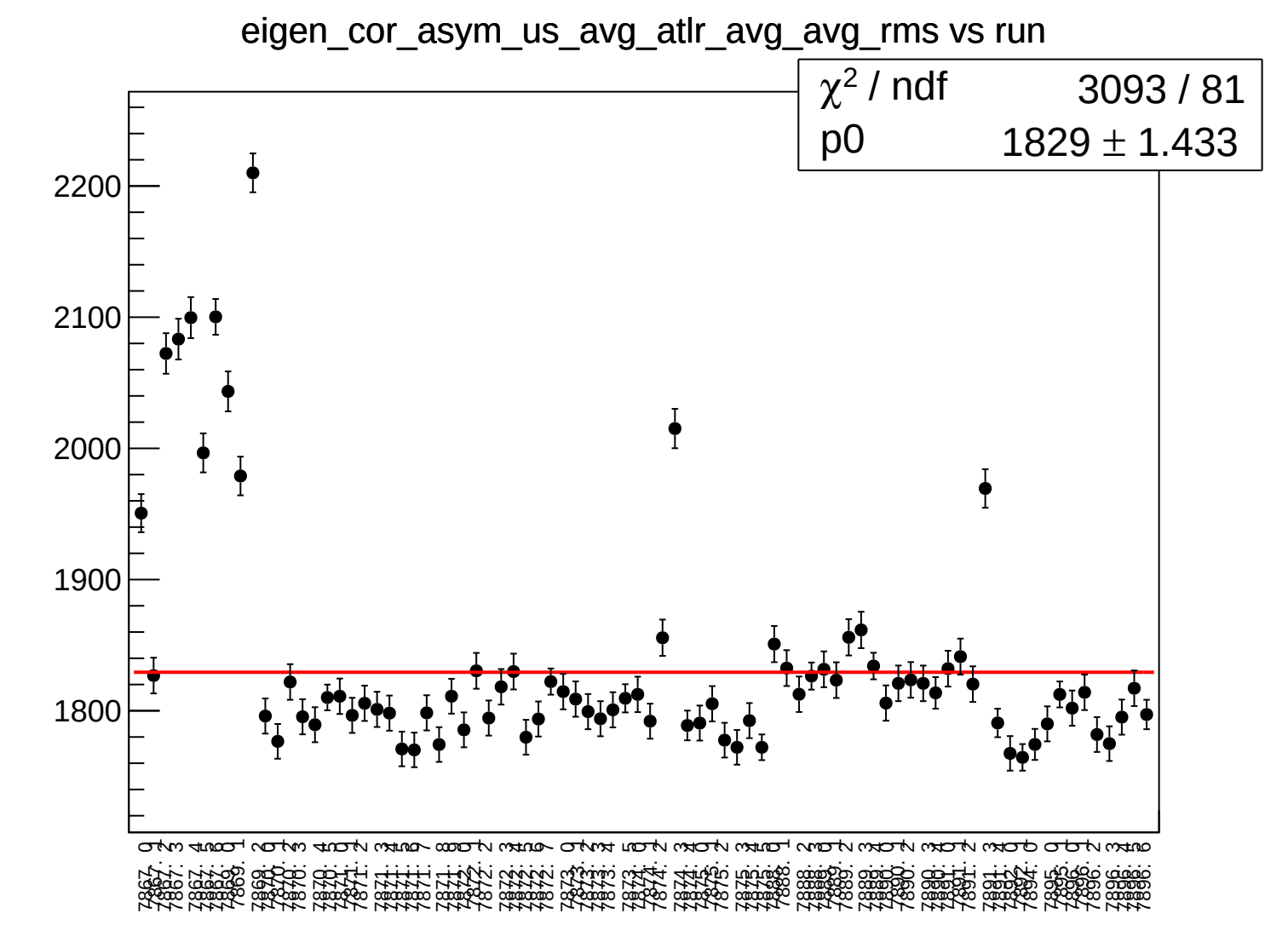

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3093 / 81
p0 1829 ± 1.433
2200
2100
2000
1900
1800

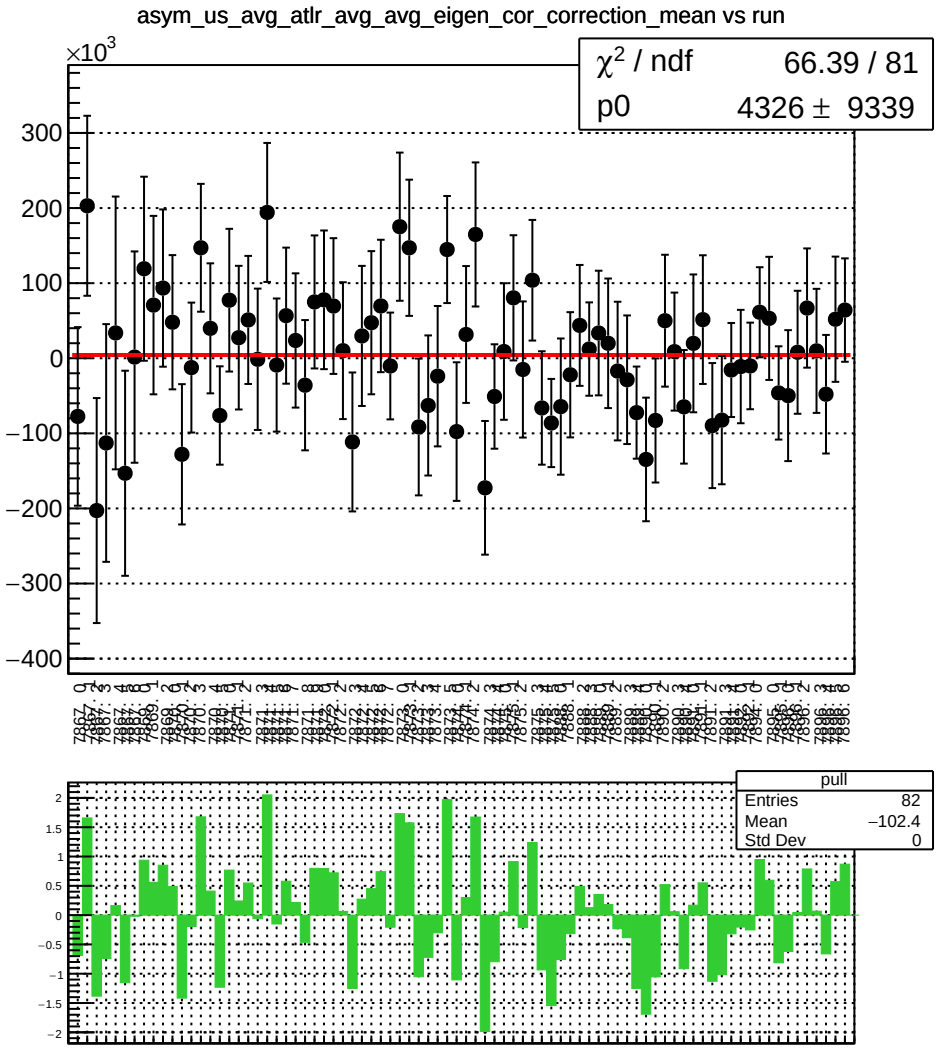

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.39 / 81
p0 4326 ± 9339
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean −102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.01893
Std Dev 0.8996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

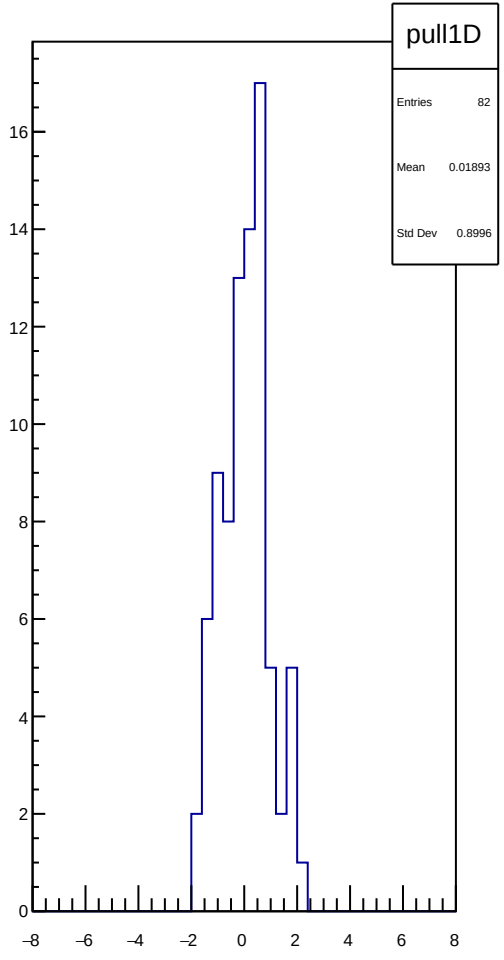

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.43e+04 / 81
p0 8348 ± 6.604
18000
16000
14000
12000
10000
8000
6000


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 67.05 / 81
p0 −3518 ± 2027
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 305.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.004742
Std Dev 0.9042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3093 / 81
p0 1829 ± 1.433
2200
2100
2000
1900
1800


asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.39 / 81
p0 4326 ± 9339
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean −102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.01893
Std Dev 0.8996
16
14
12
10
8
6
4
2
0
−8
−6
−4
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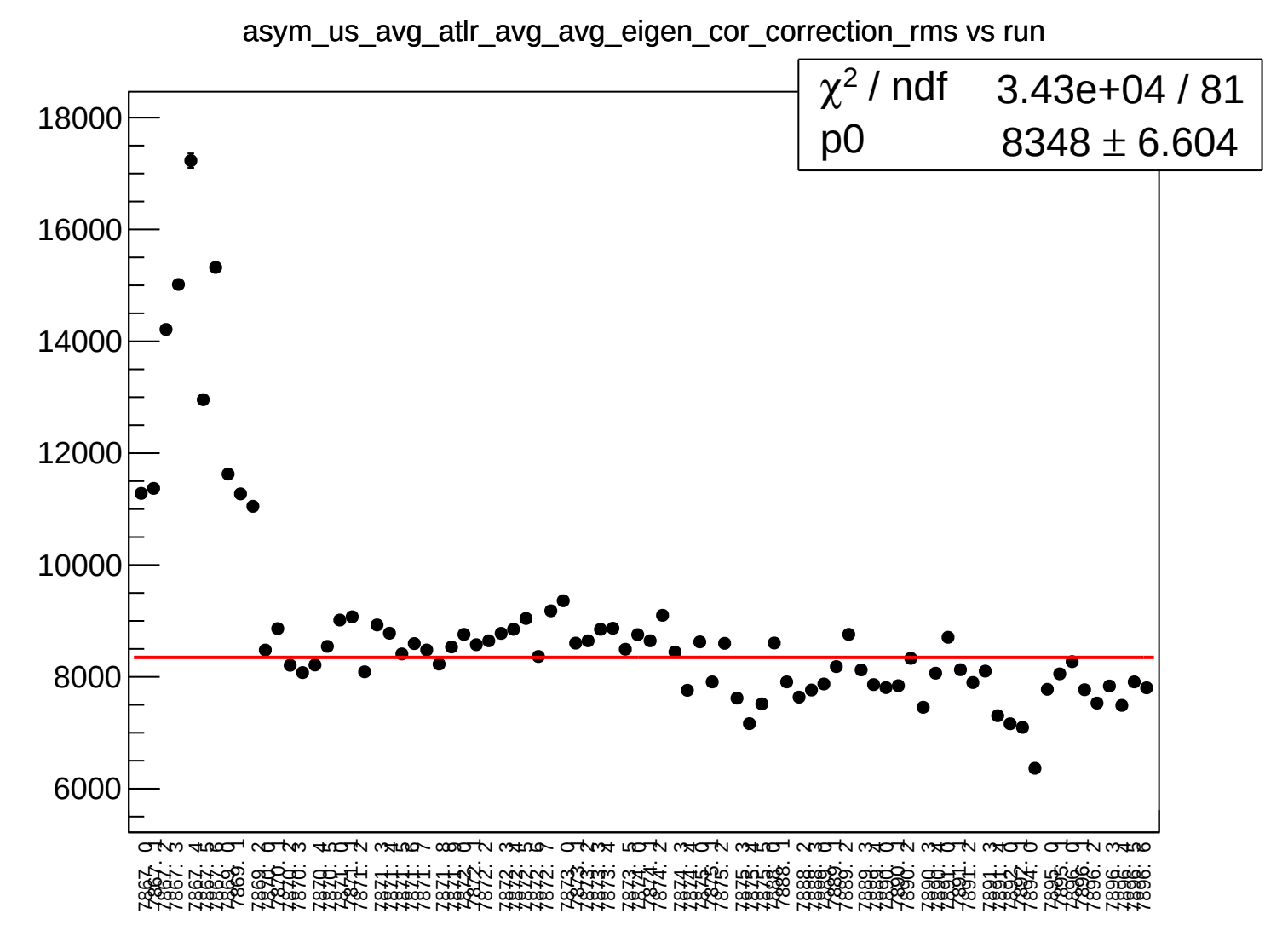
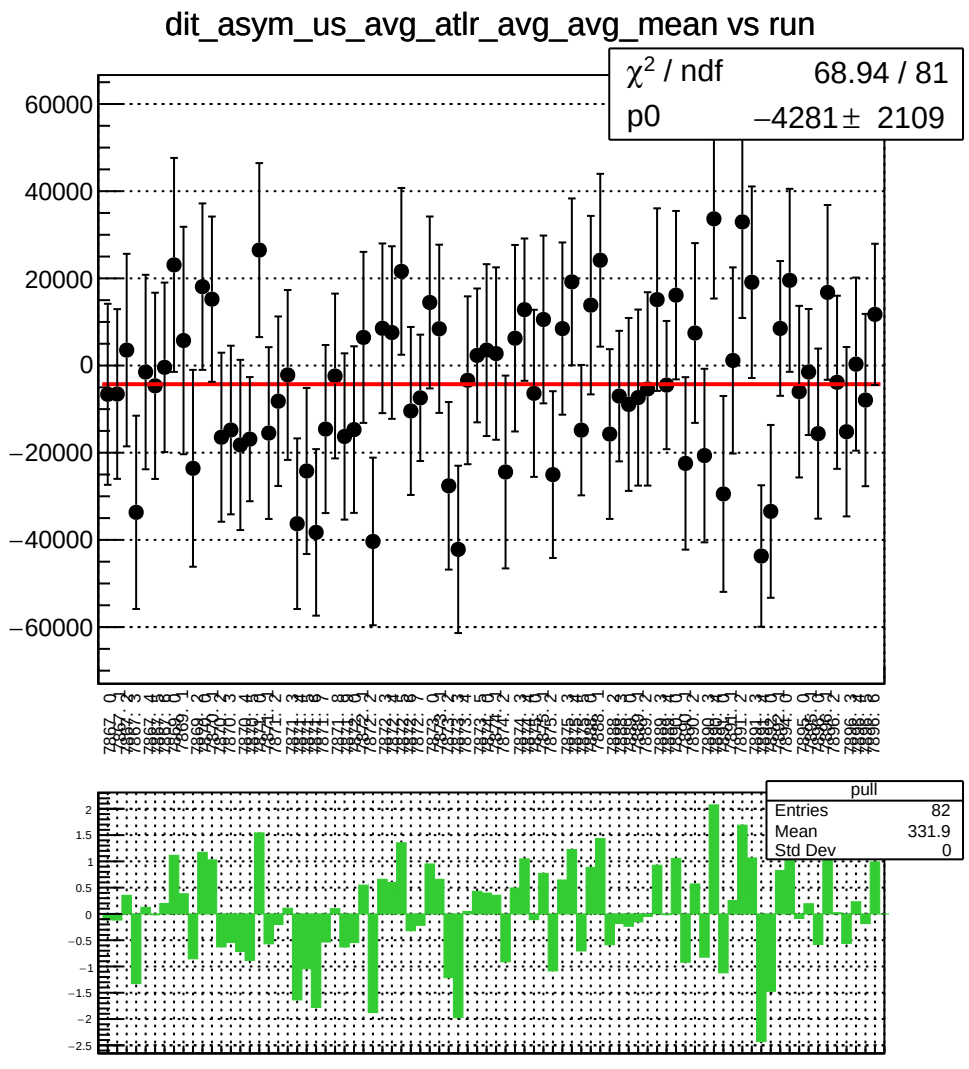
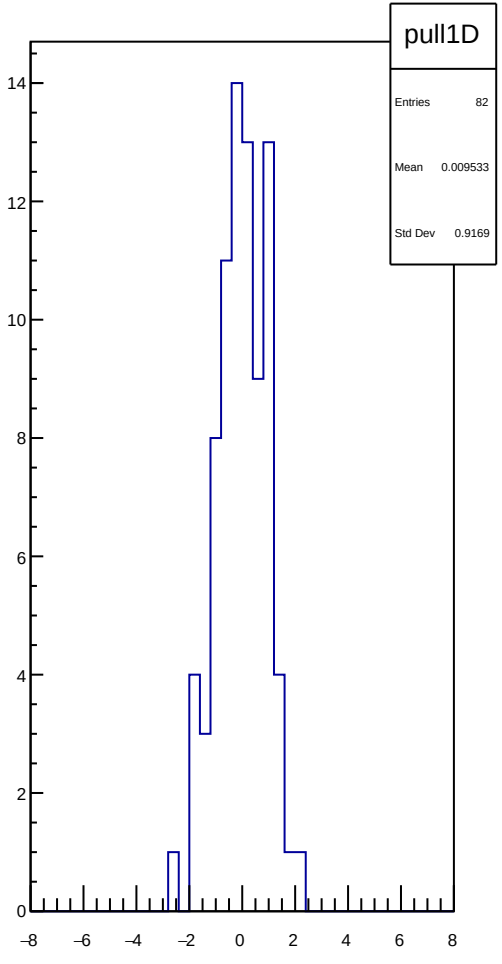
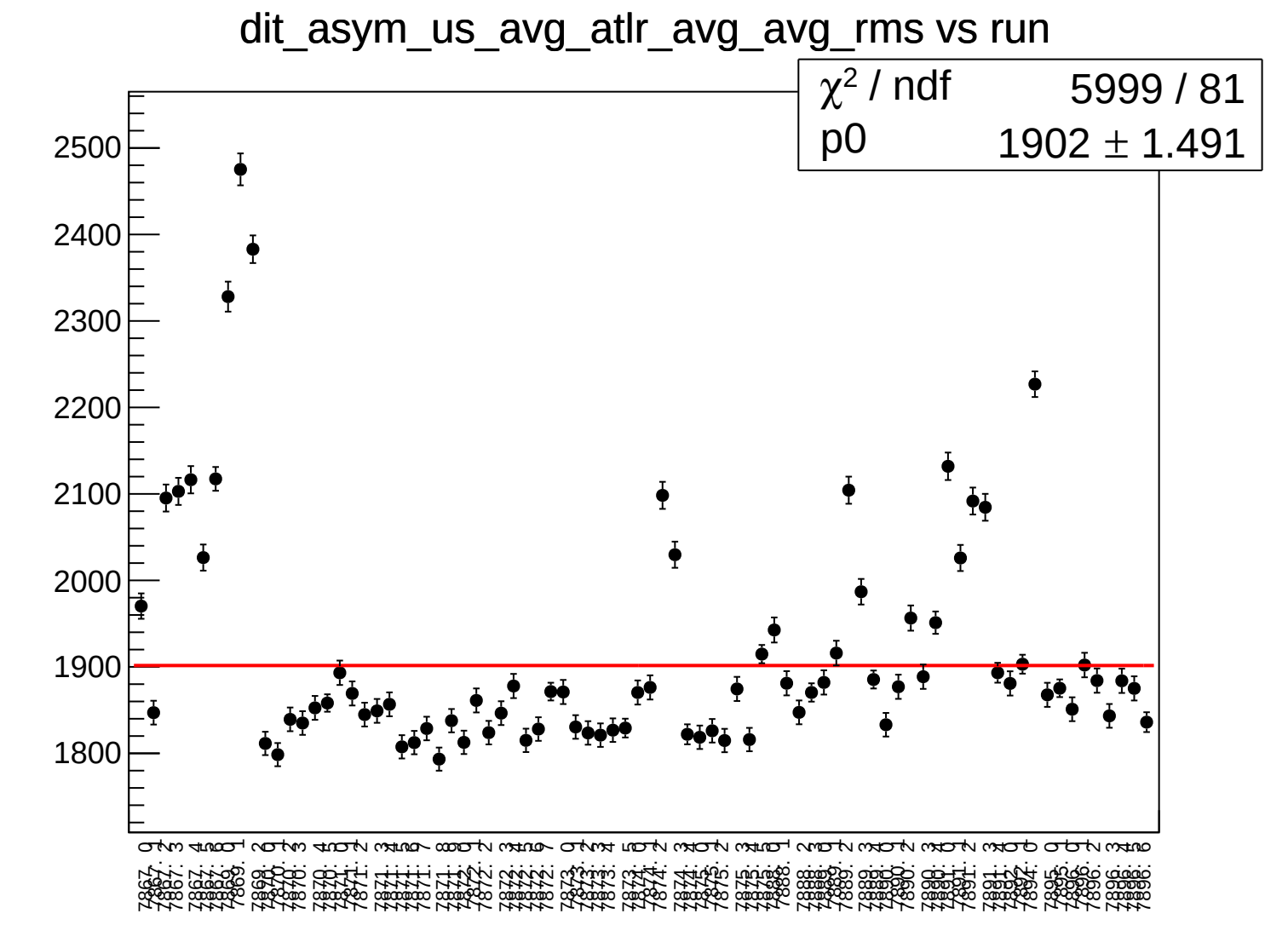
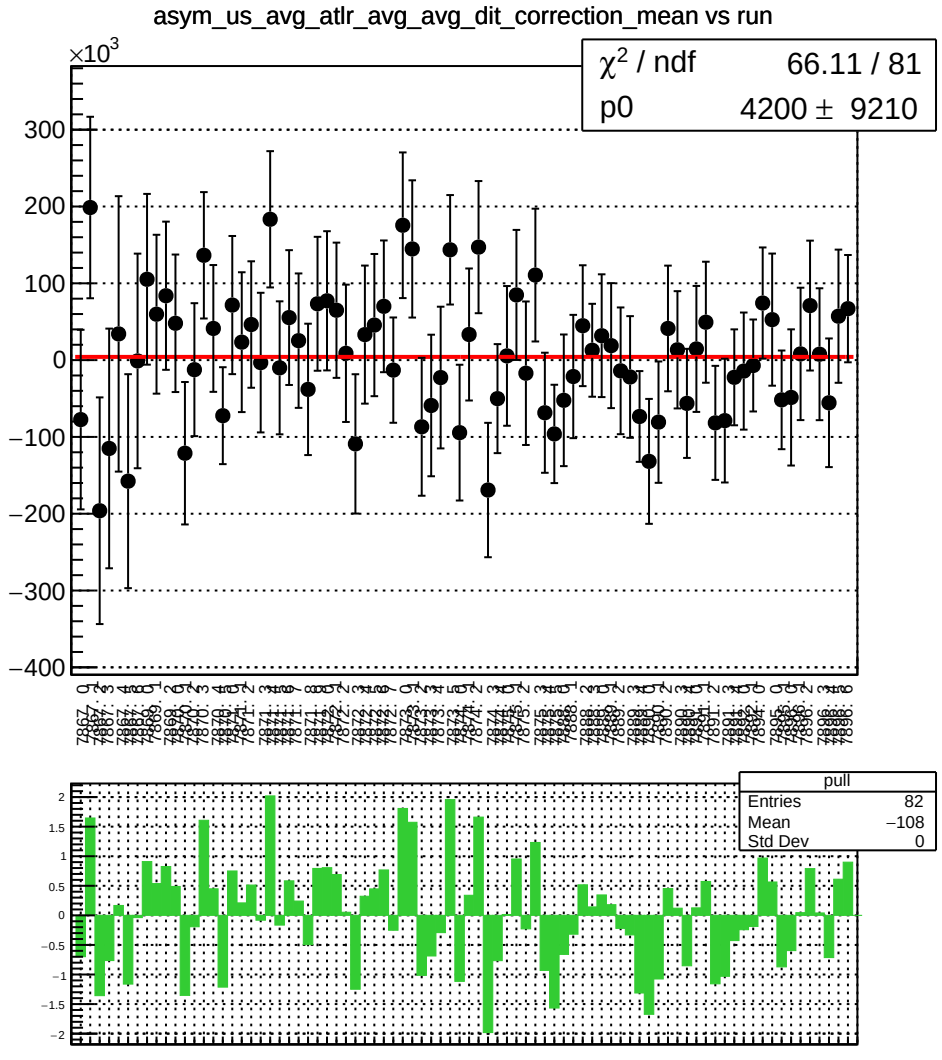
0
2
4
6
8

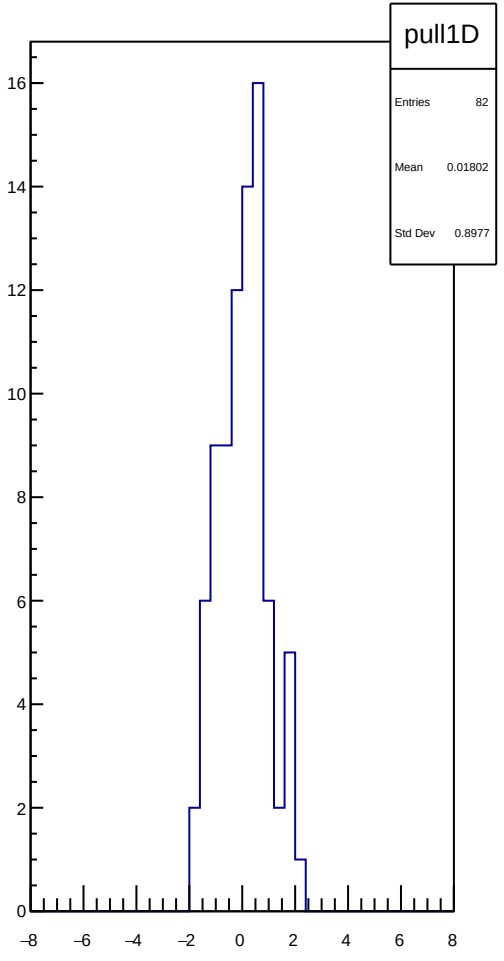

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.43e+04 / 81
p0 8348 ± 6.604
18000
16000
14000
12000
10000
8000
6000

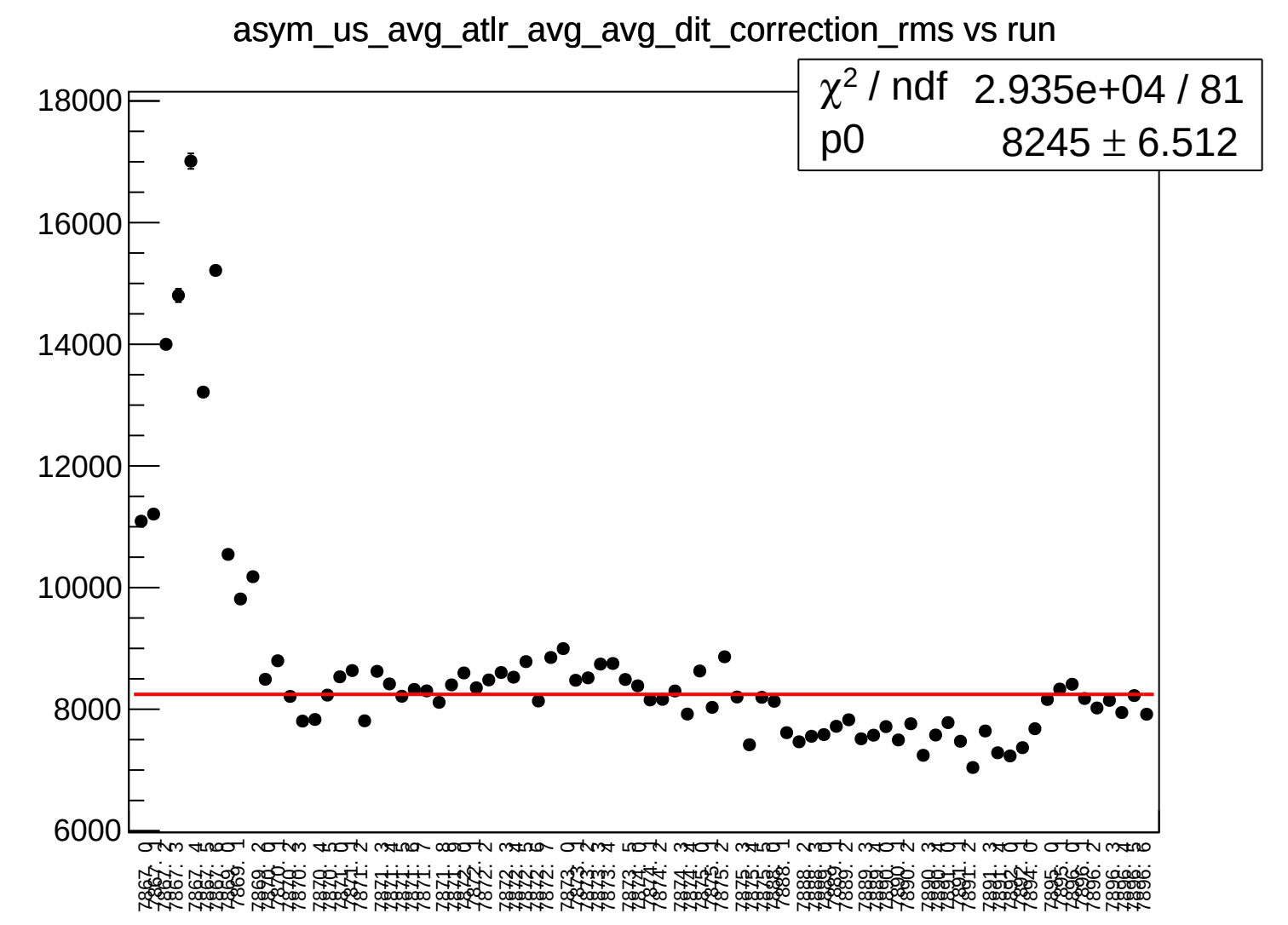

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 68.94 / 81
p0 −4281 ± 2109
pull
Entries 82
Mean 331.9
Std Dev 0

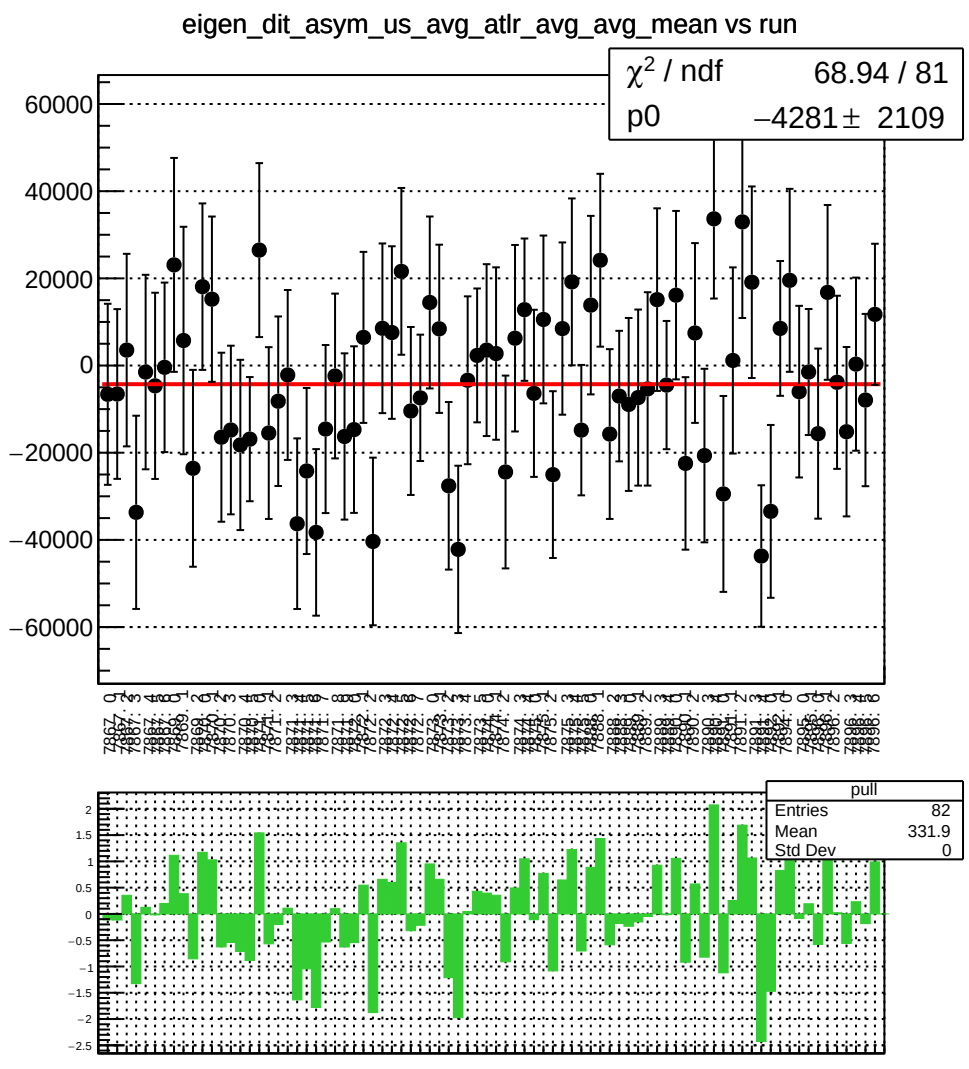

pull1D
Entries 82
Mean 0.009533
Std Dev 0.9169

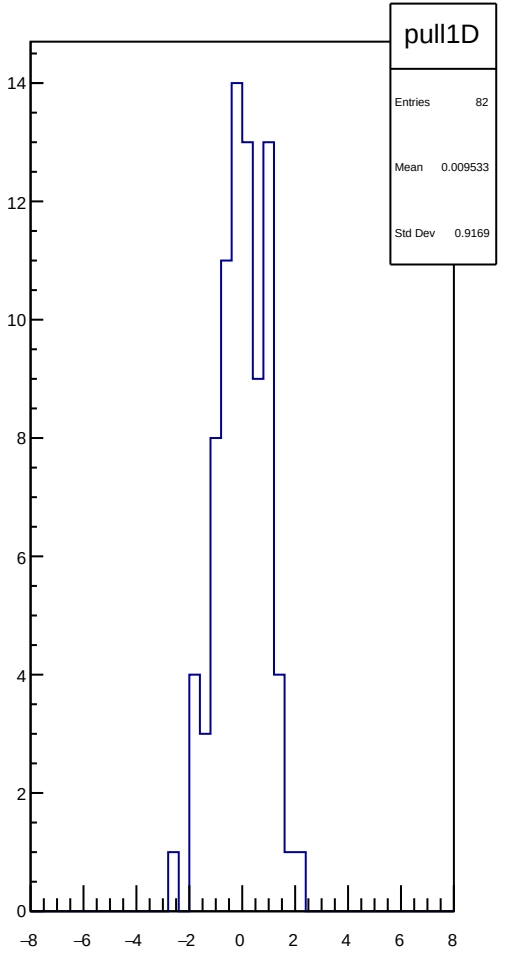

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 5999 / 81
p0 1902 ± 1.491
2500
2400
2300
2200
2100
2000
1900
1800

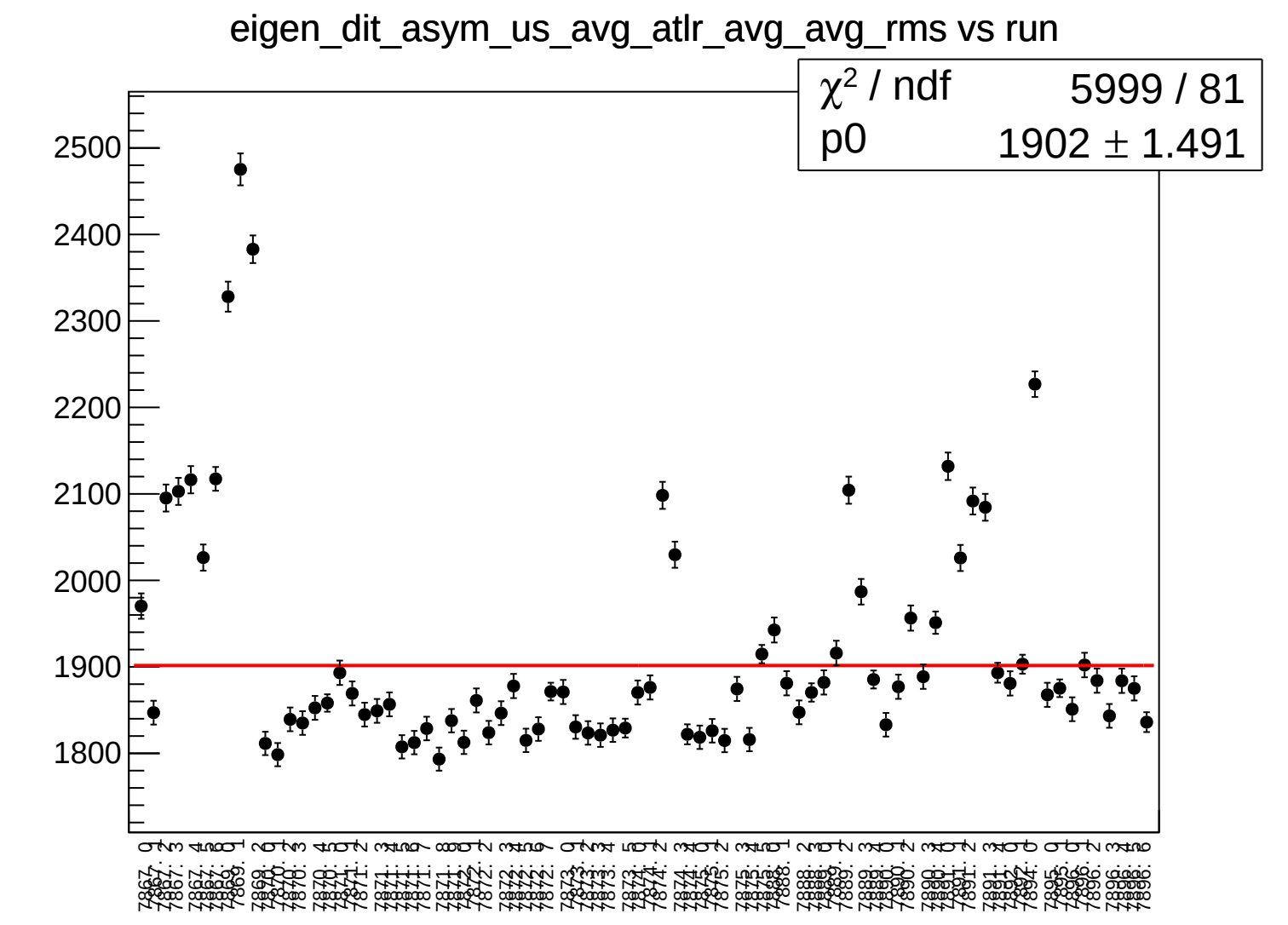

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.11 / 81
p0 4200 ± 9210
pull
Entries 82
Mean −108
Std Dev 0

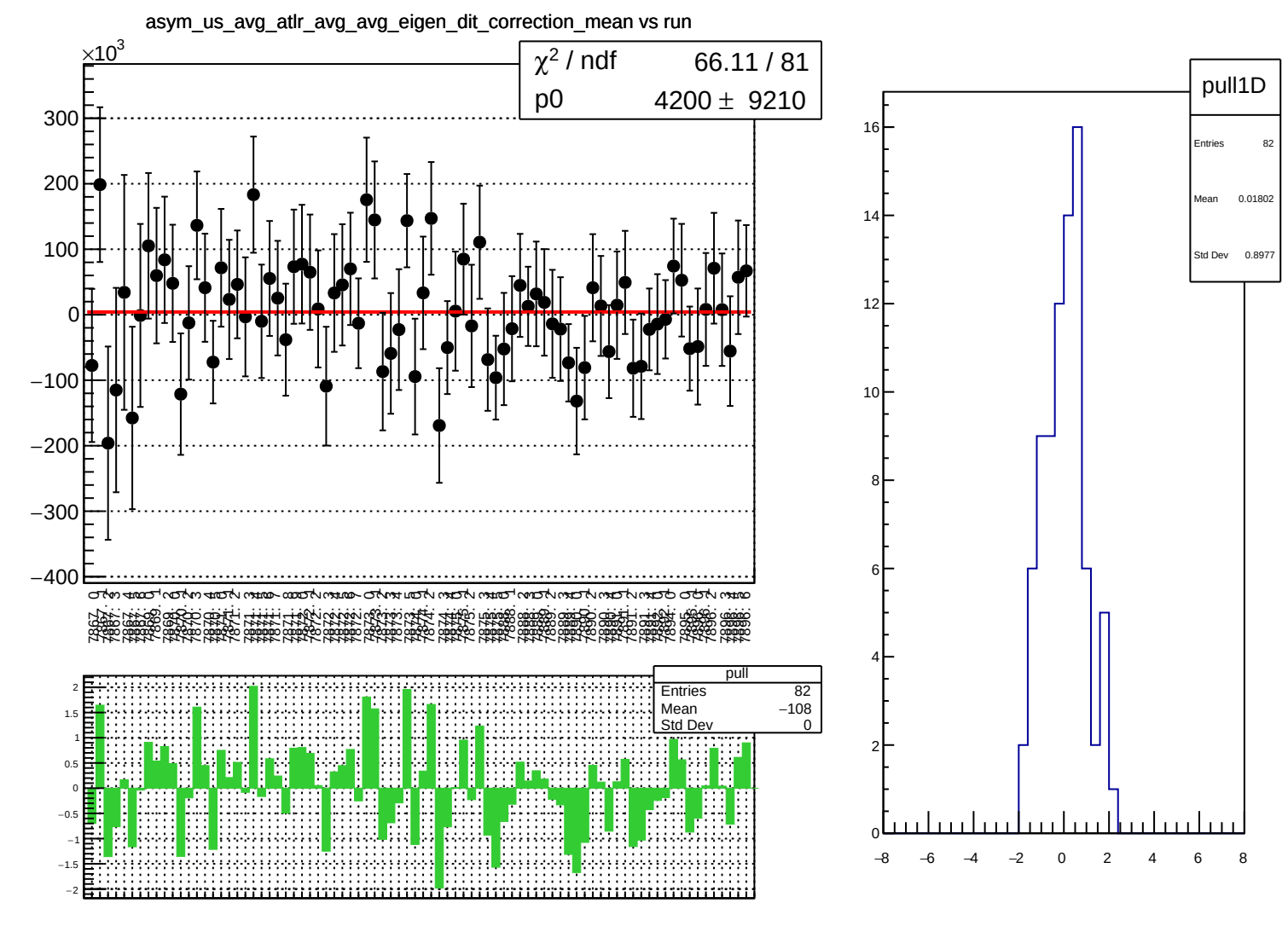

pull1D
Entries 82
Mean 0.01802
Std Dev 0.8977

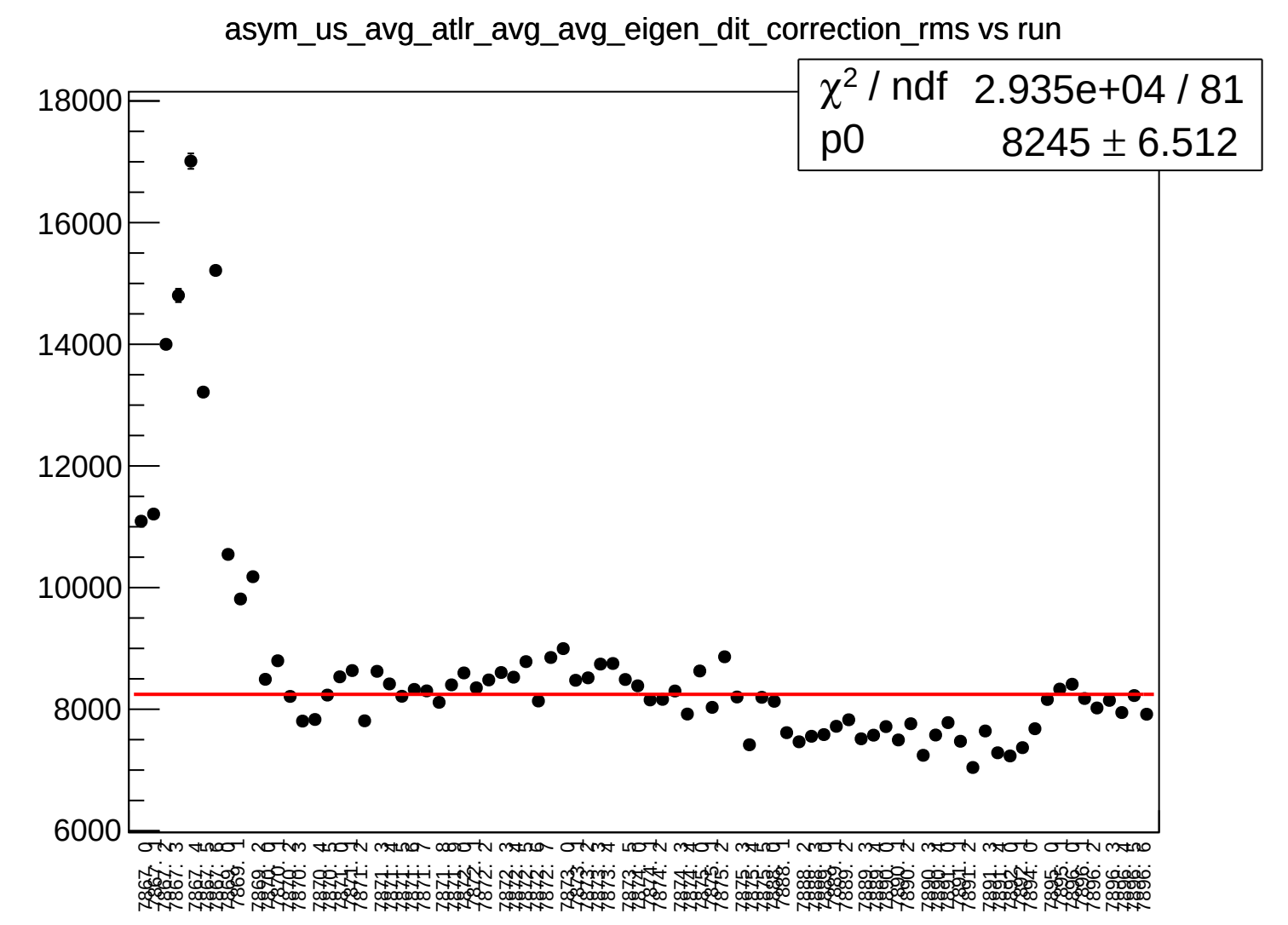

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.935e+04 / 81
p0 8245 ± 6.512
18000
16000
14000
12000
10000
8000
6000

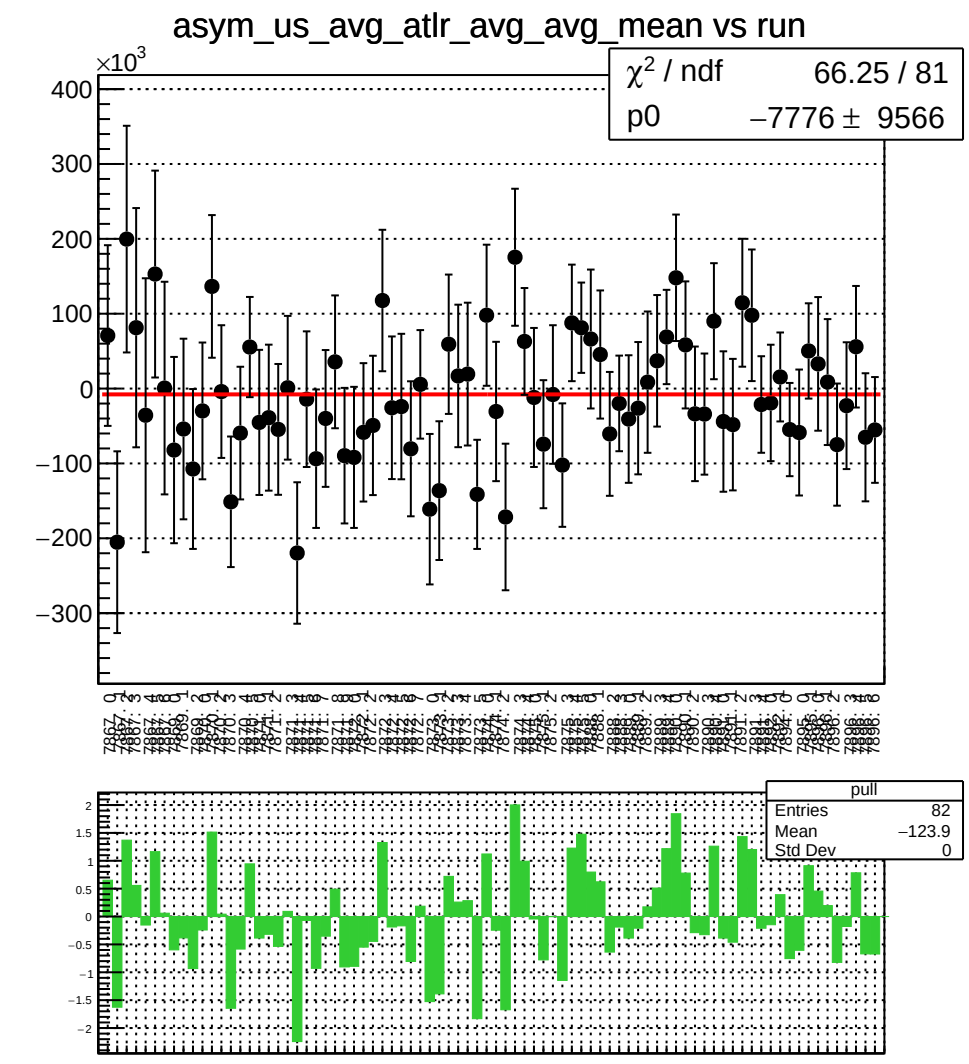

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 68.94 / 81
p0 −4281 ± 2109
pull
Entries 82
Mean 331.9
Std Dev 0

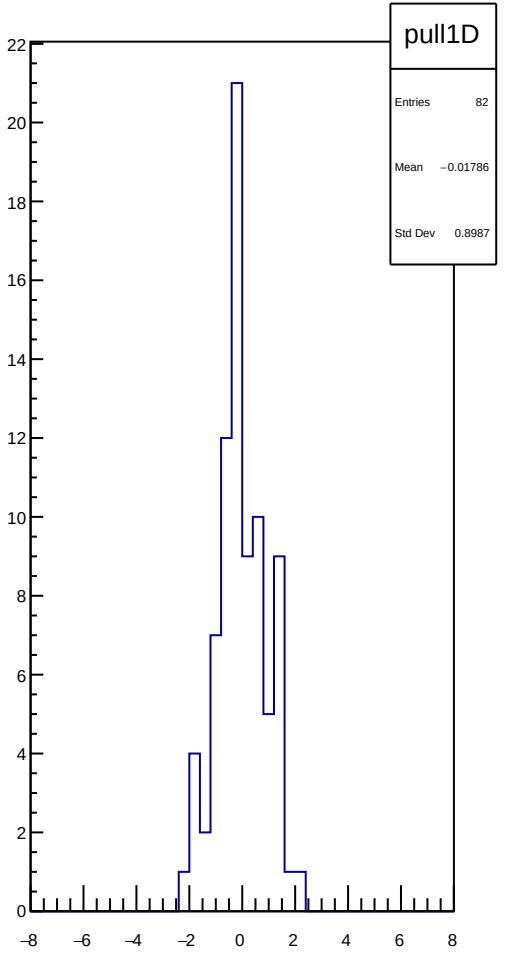

pull1D
Entries 82
Mean 0.009533
Std Dev 0.9169

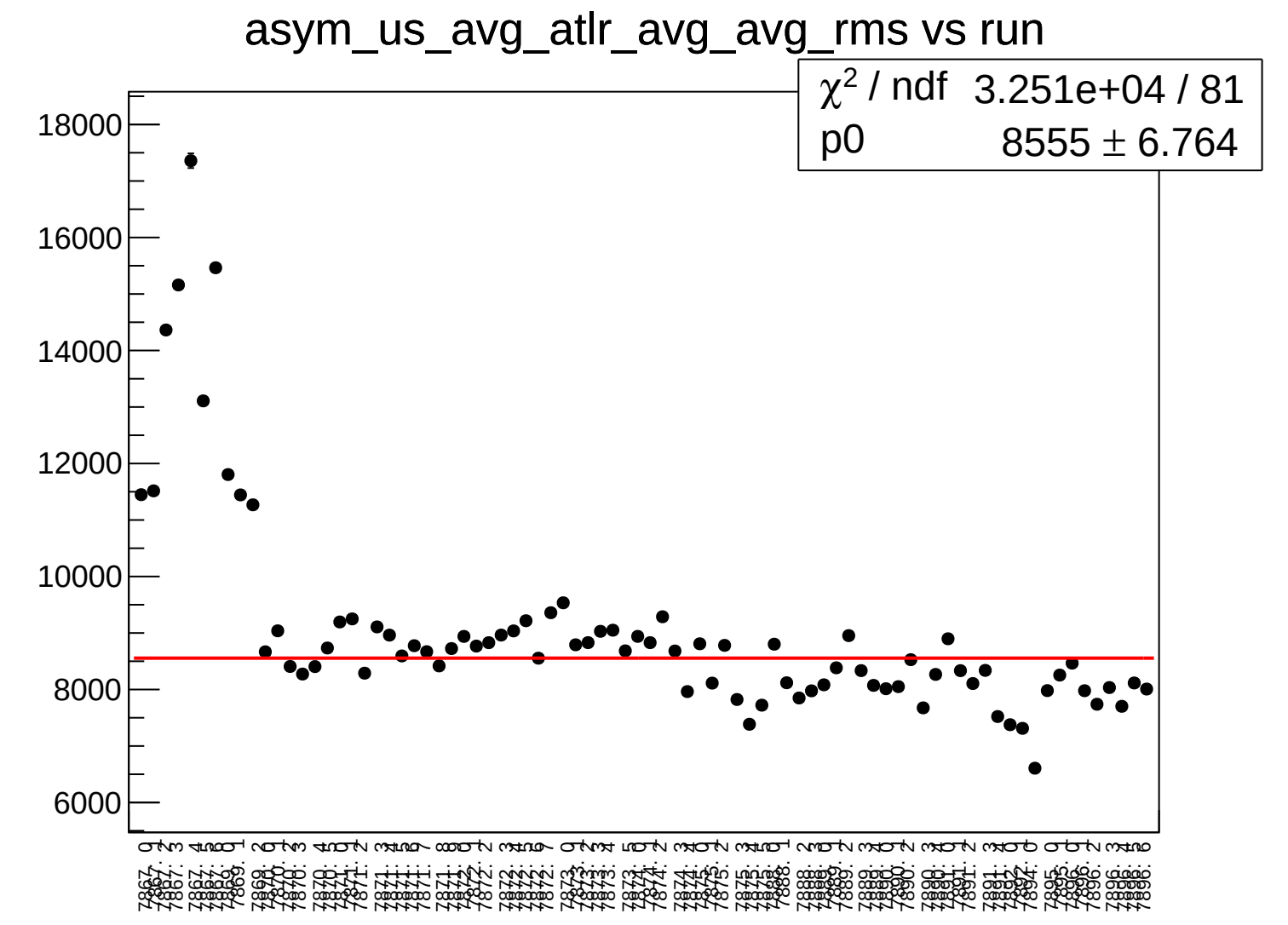

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 5999 / 81
p0 1902 ± 1.491
2500
2400
2300
2200
2100
2000
1900
1800

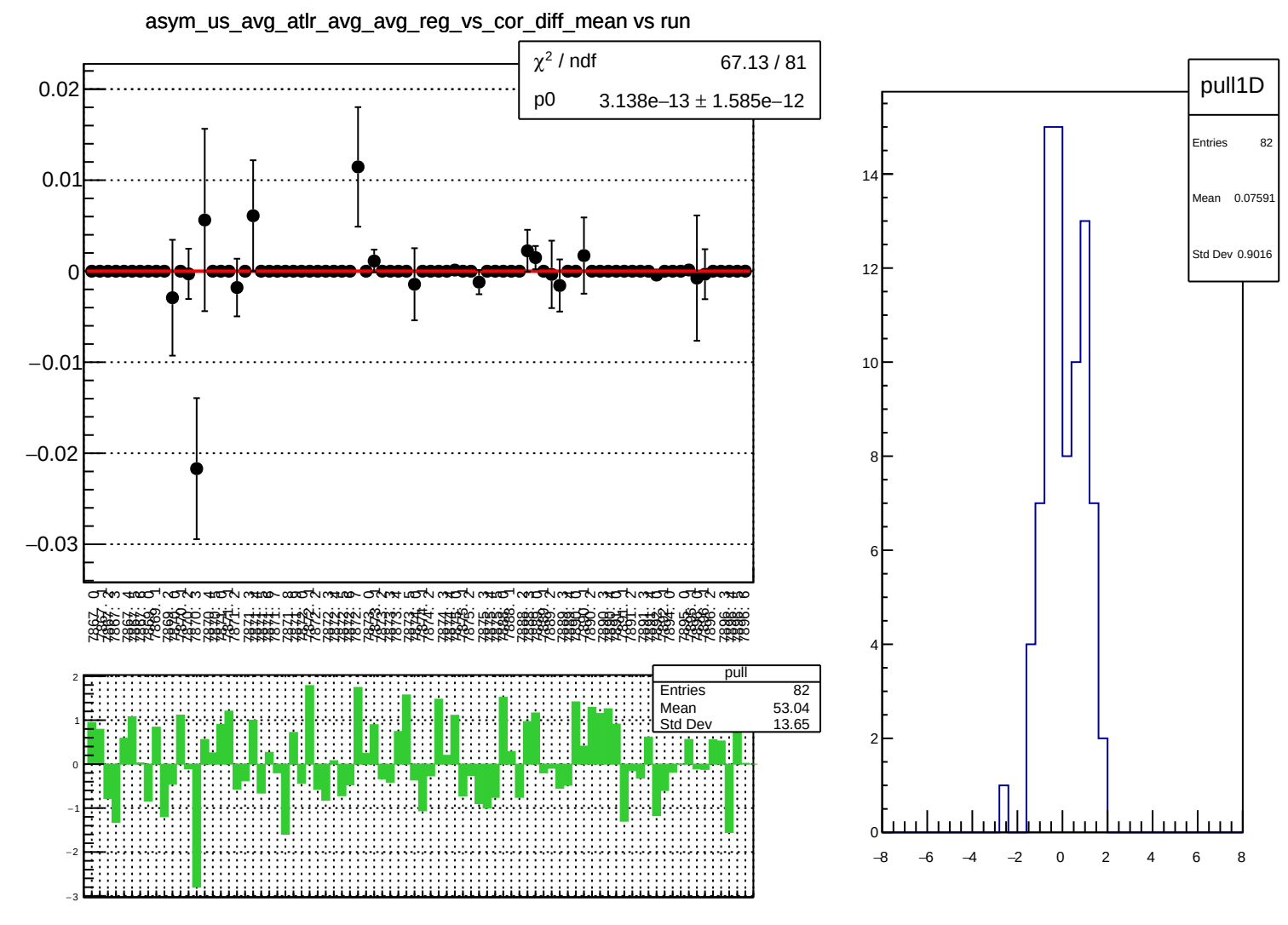

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.11 / 81
p0 4200 ± 9210
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean −108
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.01802
Std Dev 0.8977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

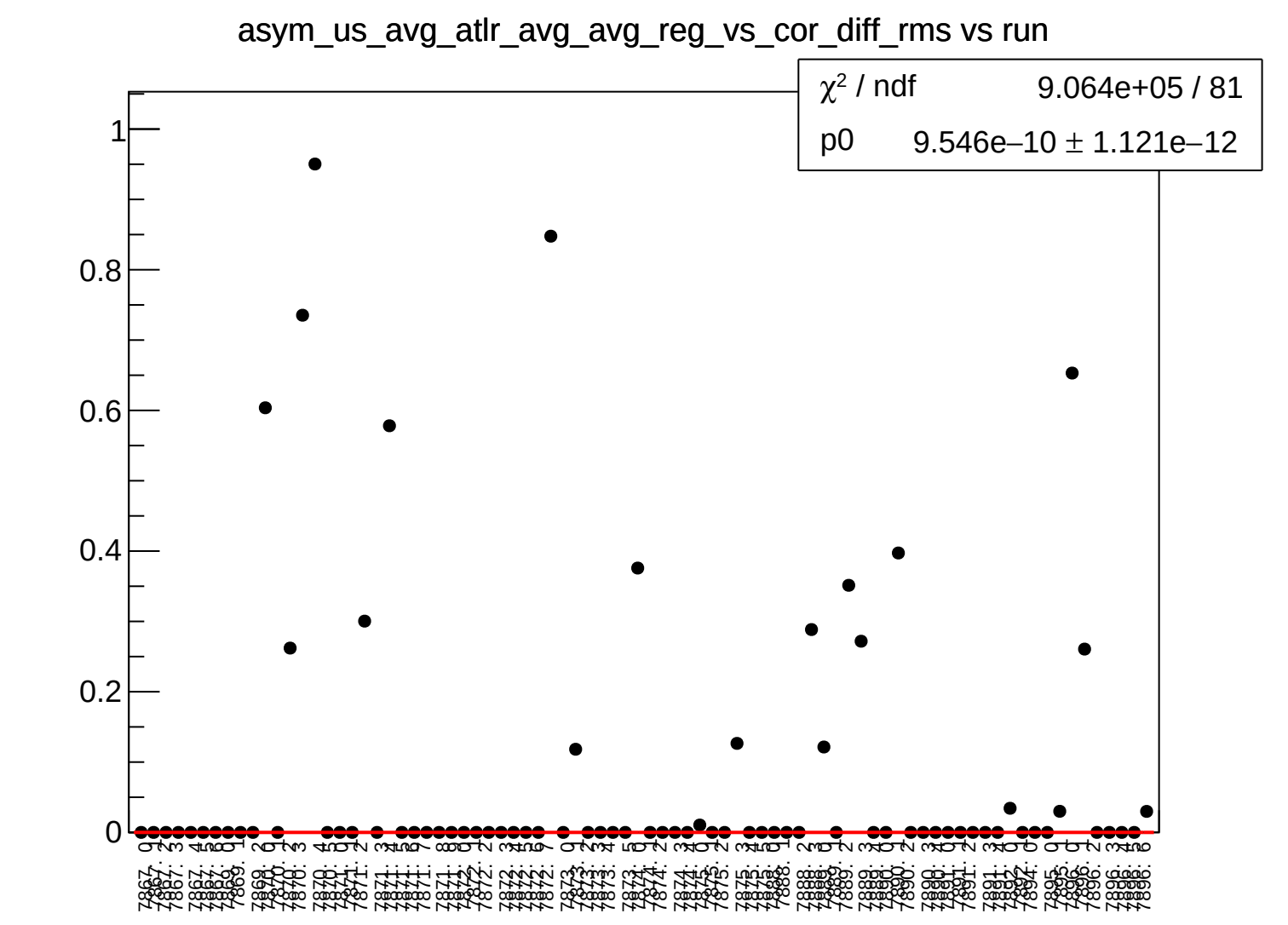

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.935e+04 / 81
p0 8245 ± 6.512
18000
16000
14000
12000
10000
8000
6000

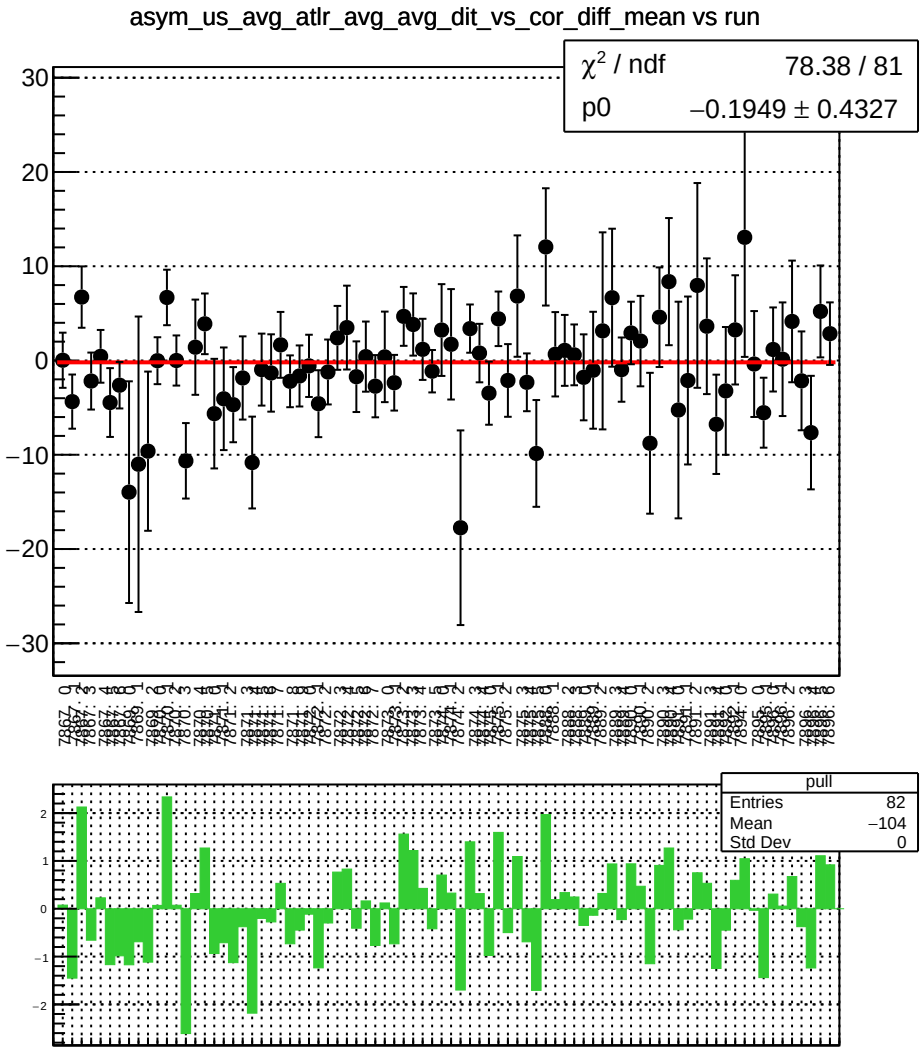

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 66.25 / 81
p0 −7776 ± 9566
pull
Entries 82
Mean −123.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

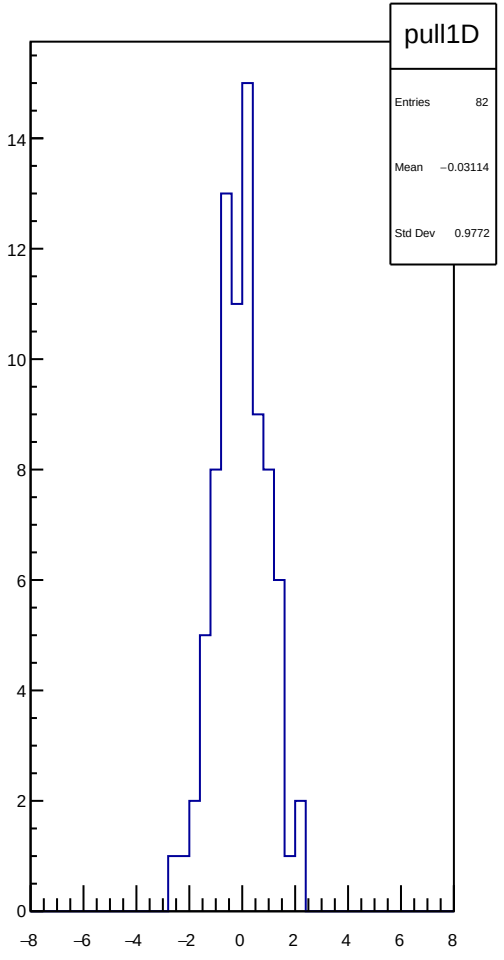

pull1D
Entries 82
Mean −0.01786
Std Dev 0.8987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

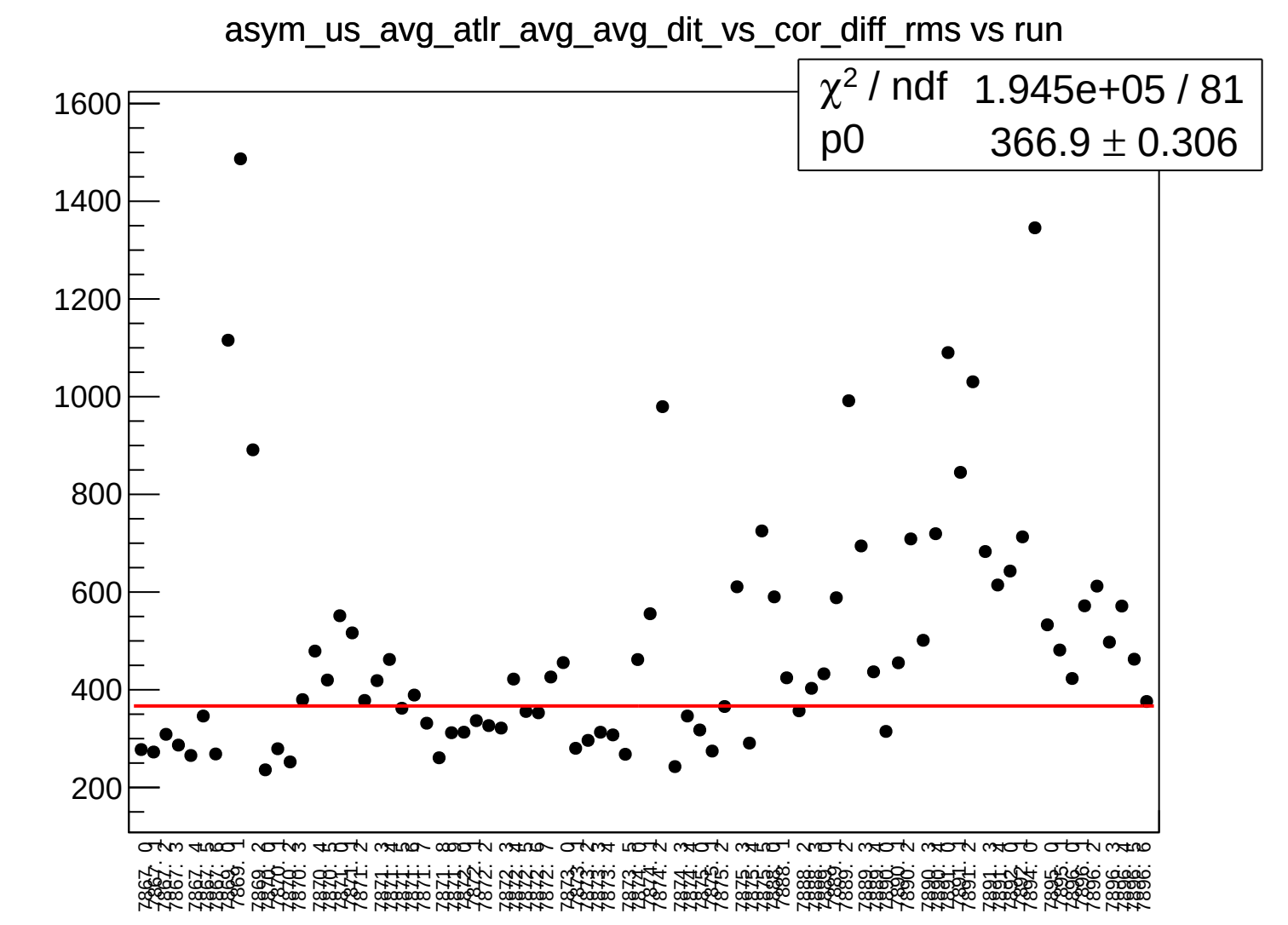

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3.251e+04 / 81
p0 8555 ± 6.764
18000
16000
14000
12000
10000
8000
6000

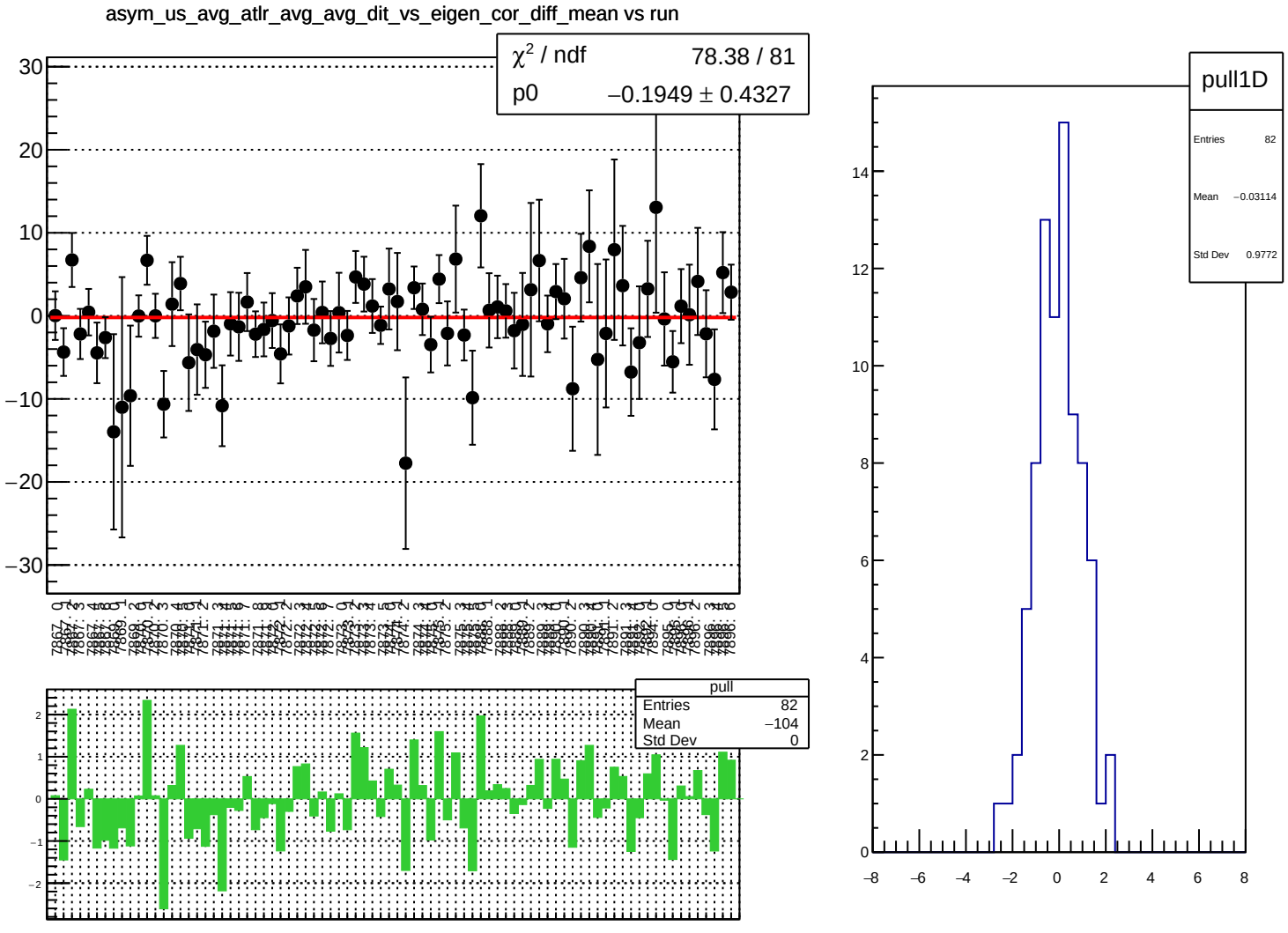

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.13 / 81
p0 3.138e−13 ± 1.585e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 82
Mean 53.04
Std Dev 13.65
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.07591
Std Dev 0.9016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

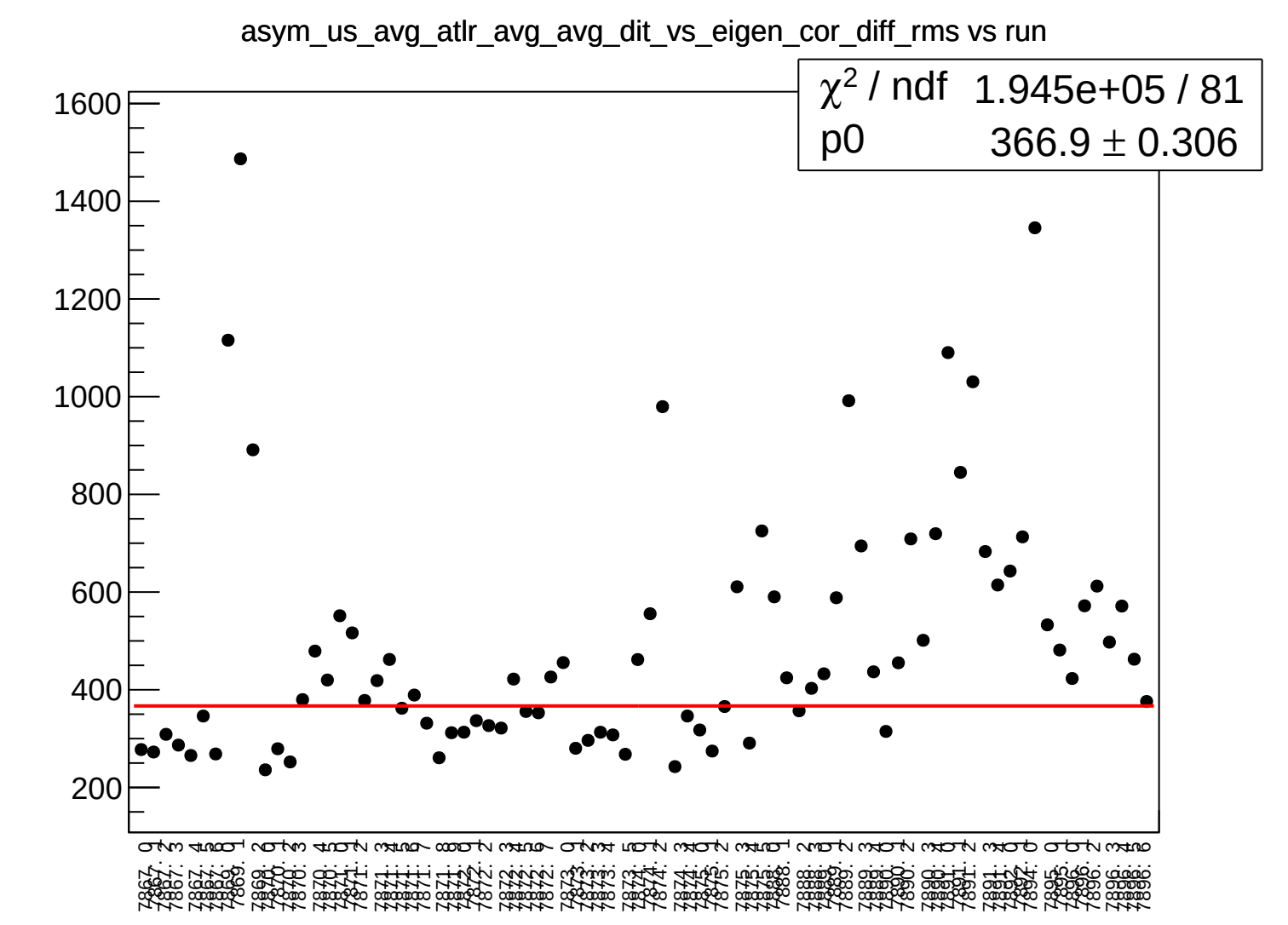

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.064e+05 / 81
p0 9.546e−10 ± 1.121e−12
1
0.8
0.6
0.4
0.2
0

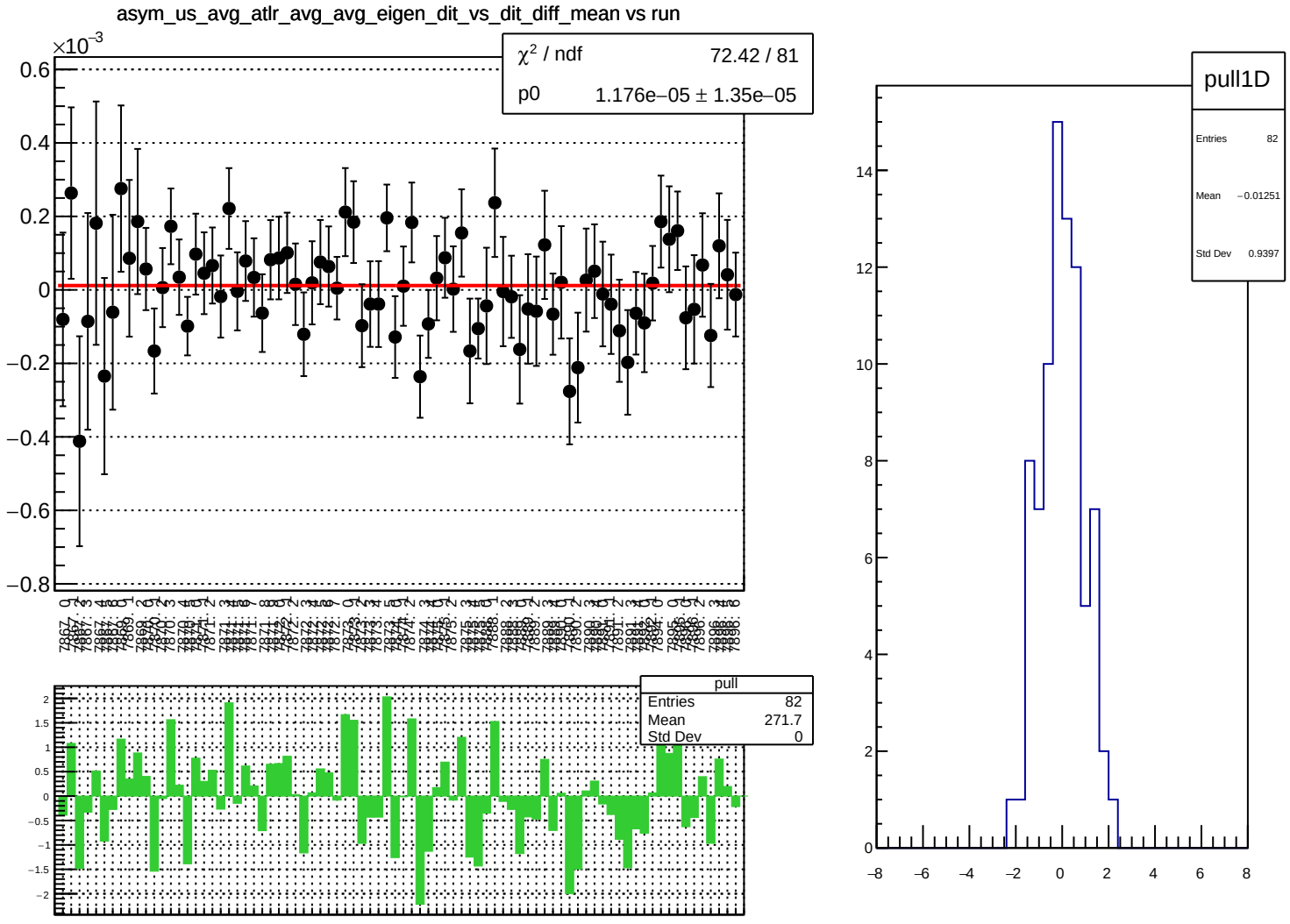

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.38 / 81
p0 −0.1949 ± 0.4327
pull
Entries 82
Mean −104
Std Dev 0

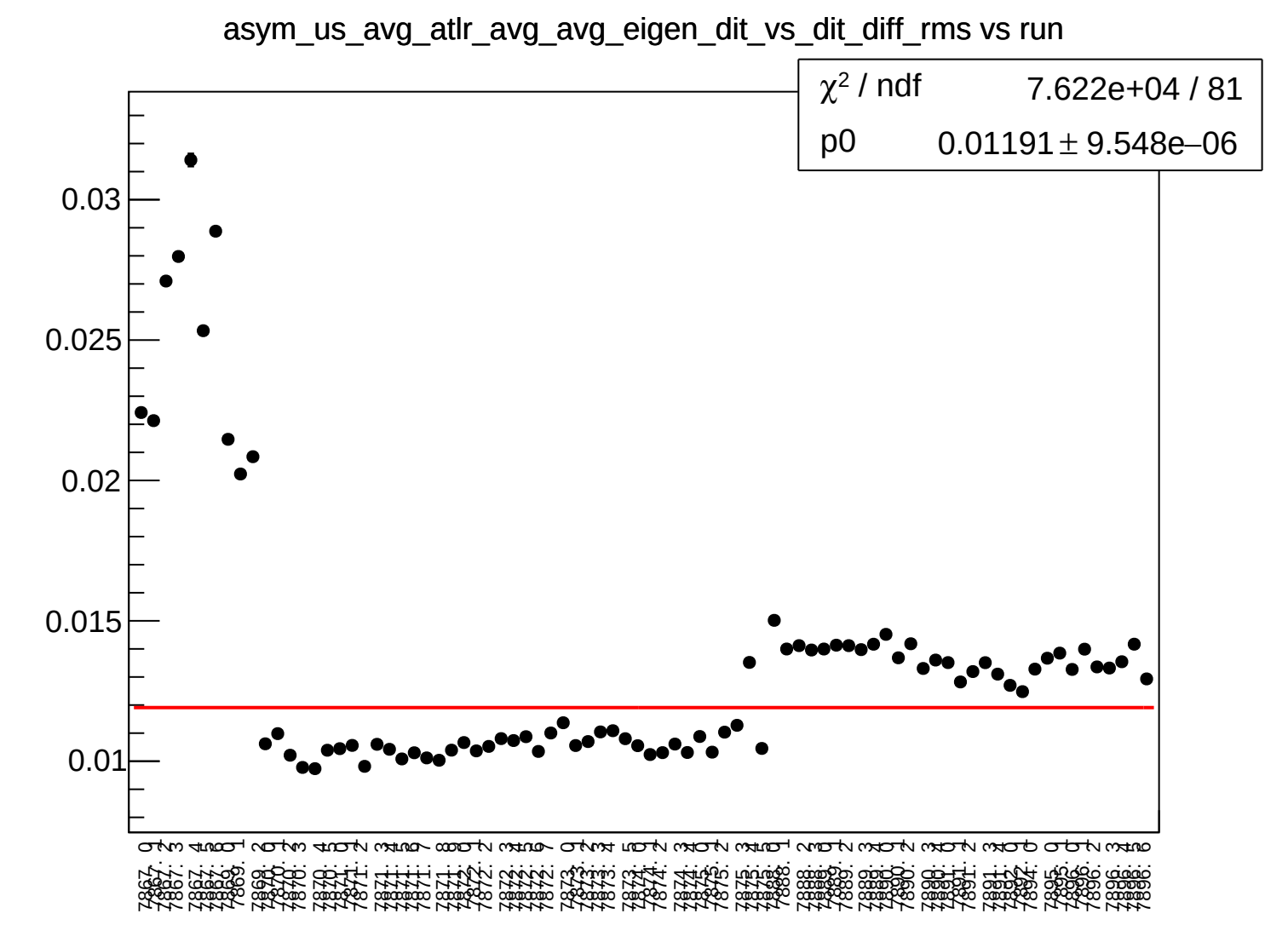

pull1D
Entries 82
Mean −0.03114
Std Dev 0.9772

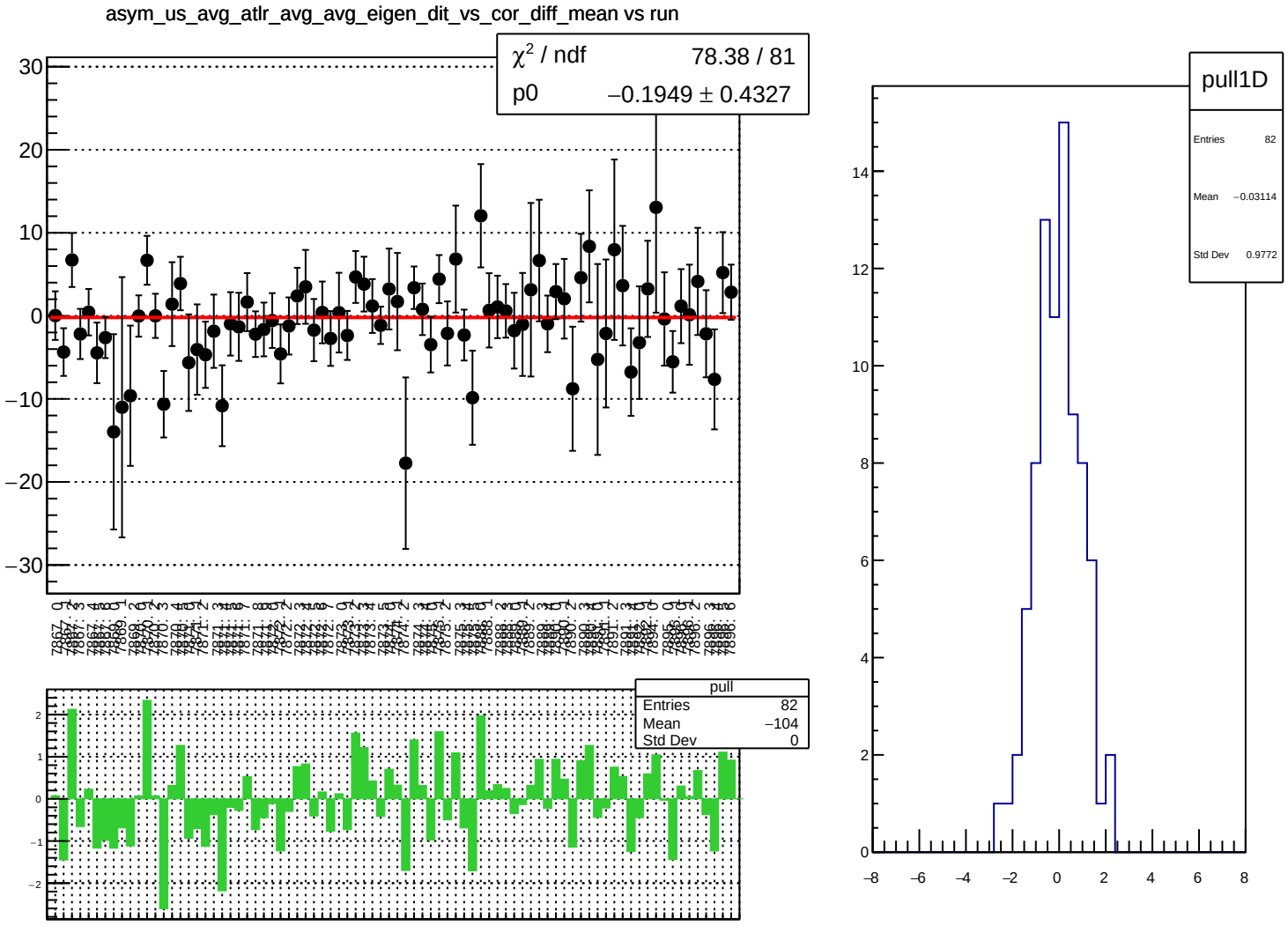

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.945e+05 / 81
p0 366.9 ± 0.306
1600
1400
1200
1000
800
600
400
200

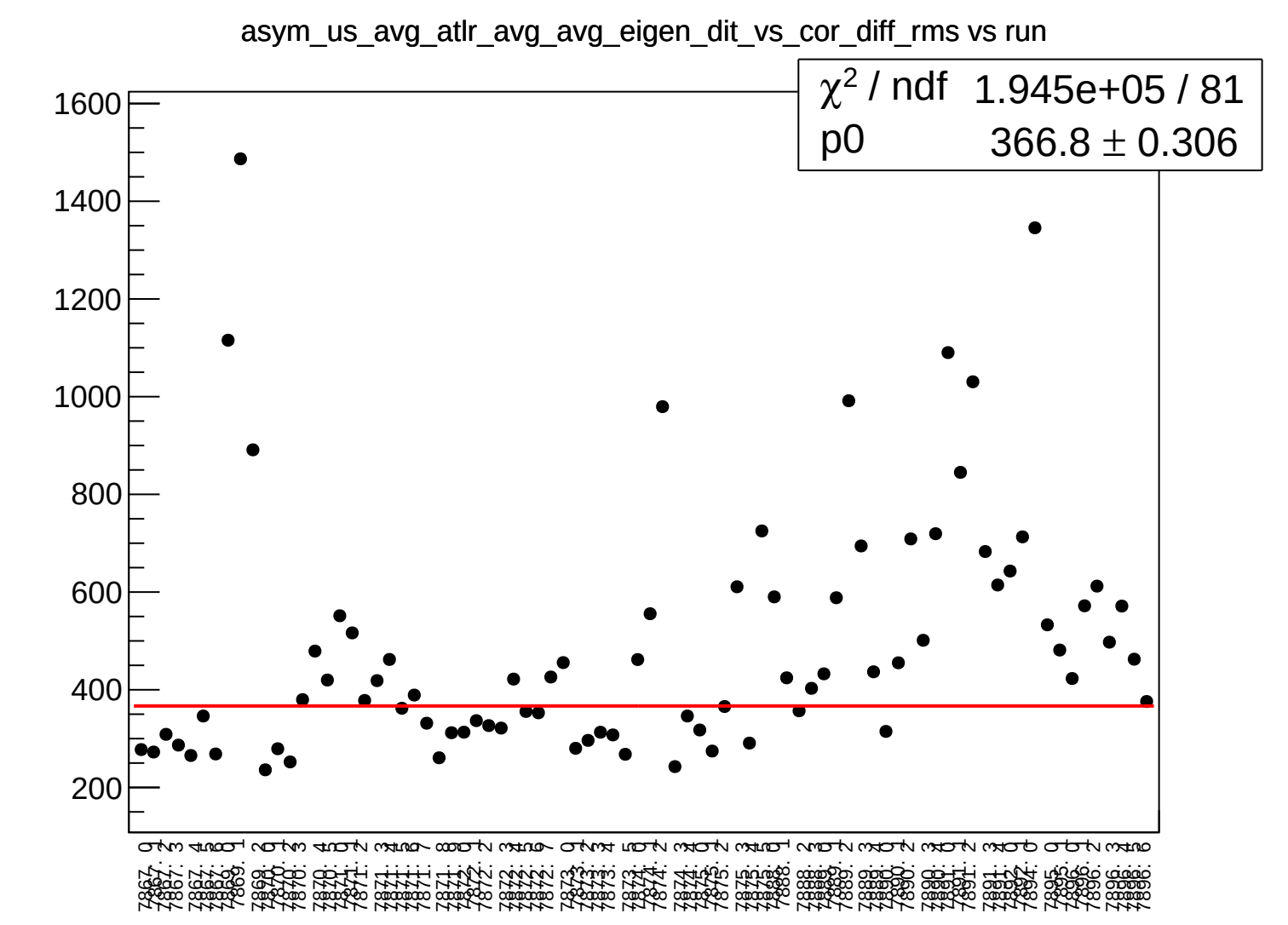

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.38 / 81
p0 −0.1949 ± 0.4327
pull
Entries 82
Mean −104
Std Dev 0
pull1D
Entries 82
Mean −0.03114
Std Dev 0.9772

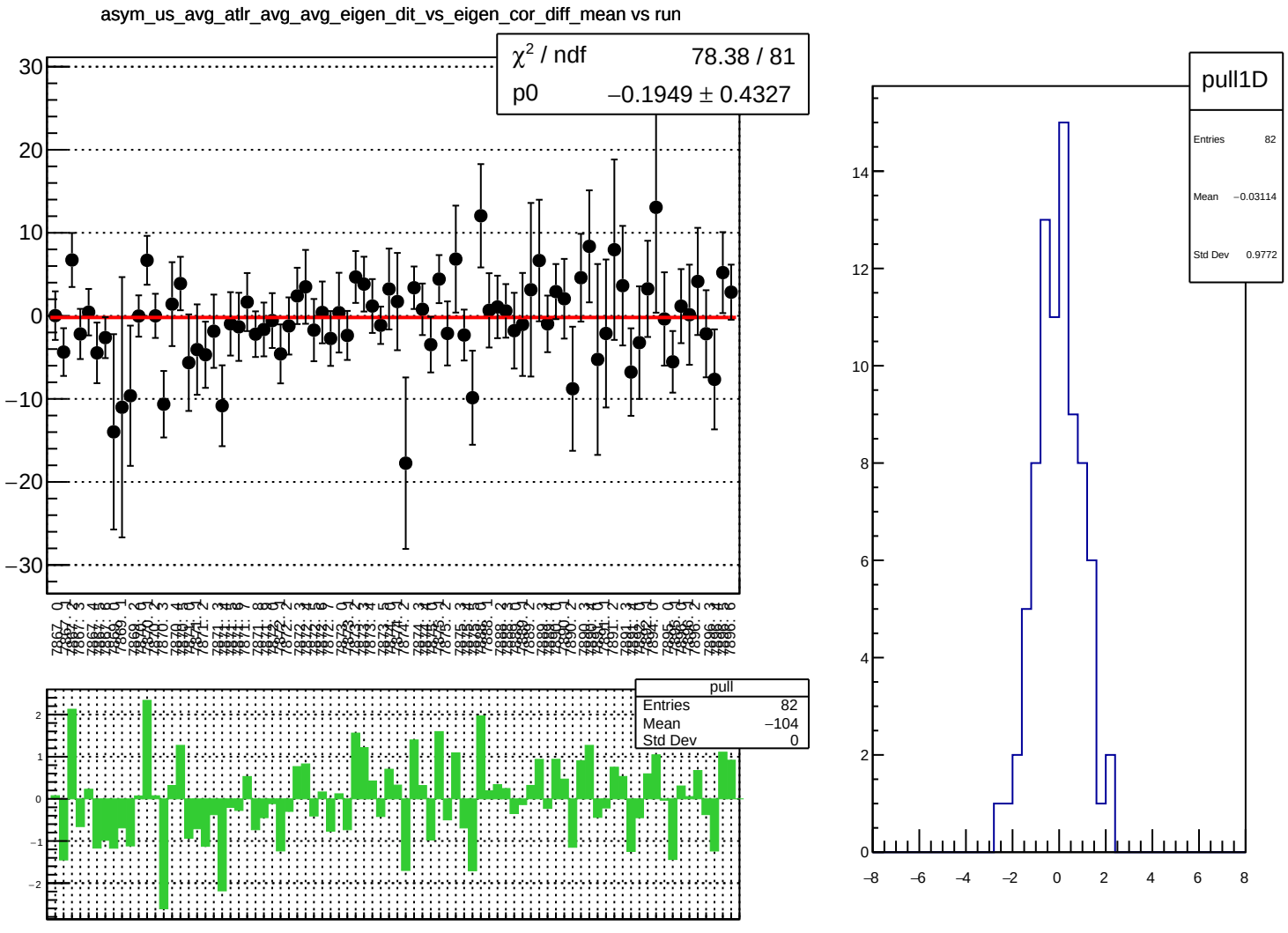

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.945e+05 / 81
p0 366.9 ± 0.306
1600
1400
1200
1000
800
600
400
200

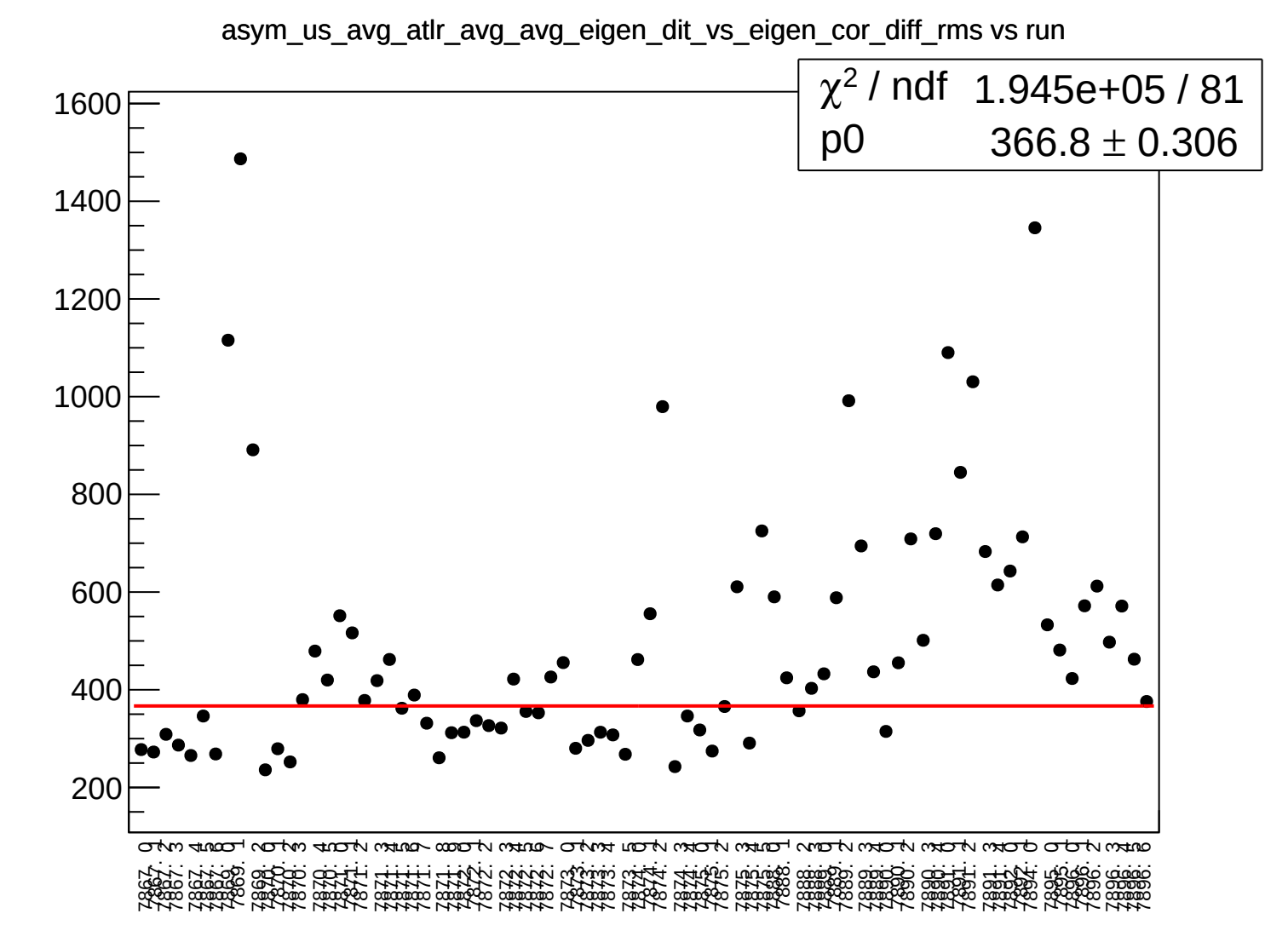

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.42 / 81
p0 1.176e−05 ± 1.35e−05
pull
Entries 82
Mean 271.7
Std Dev 0
pull1D
Entries 82
Mean −0.01251
Std Dev 0.9397

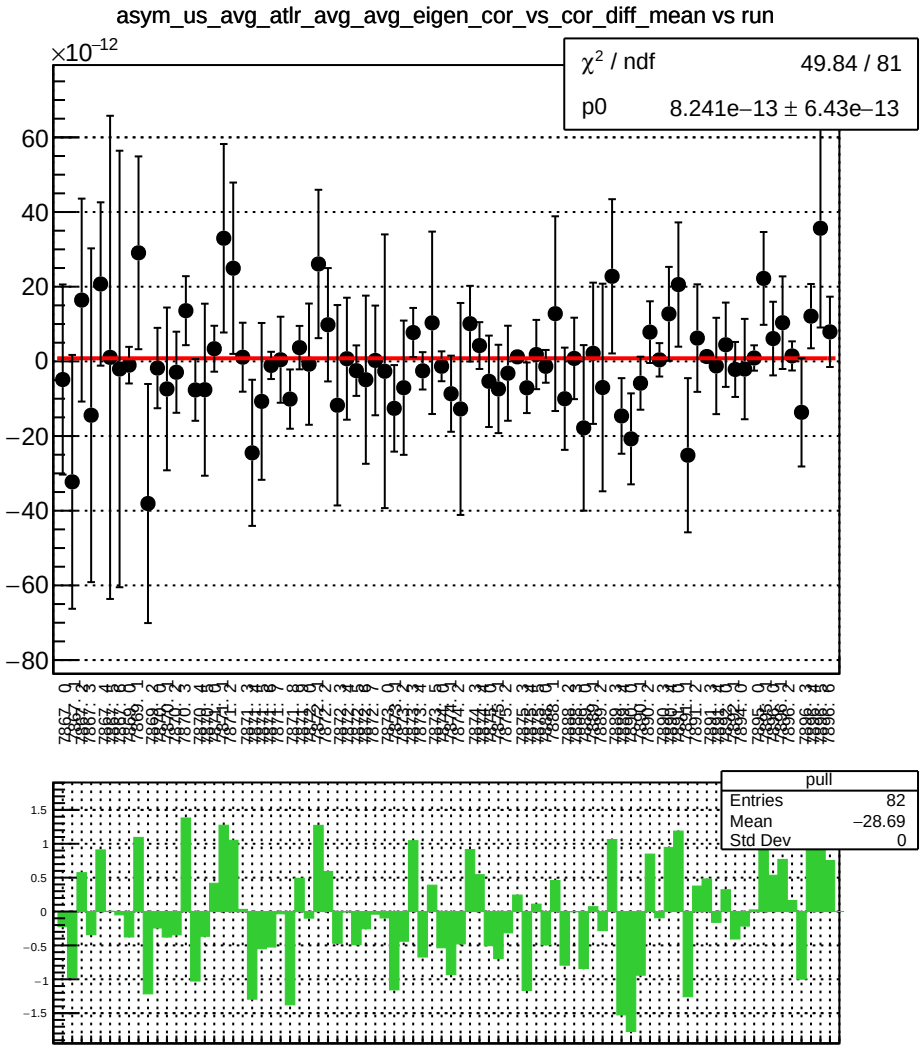

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.622e+04 / 81
p0 0.01191 ± 9.548e–06
0.03
0.025
0.02
0.015
0.01

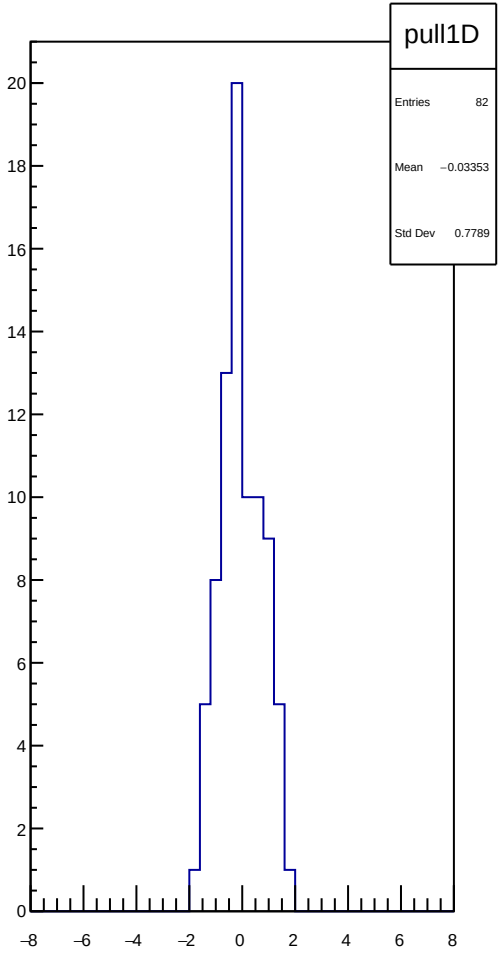

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.38 / 81
p0 −0.1949 ± 0.4327
pull
Entries 82
Mean −104
Std Dev 0
pull1D
Entries 82
Mean −0.03114
Std Dev 0.9772

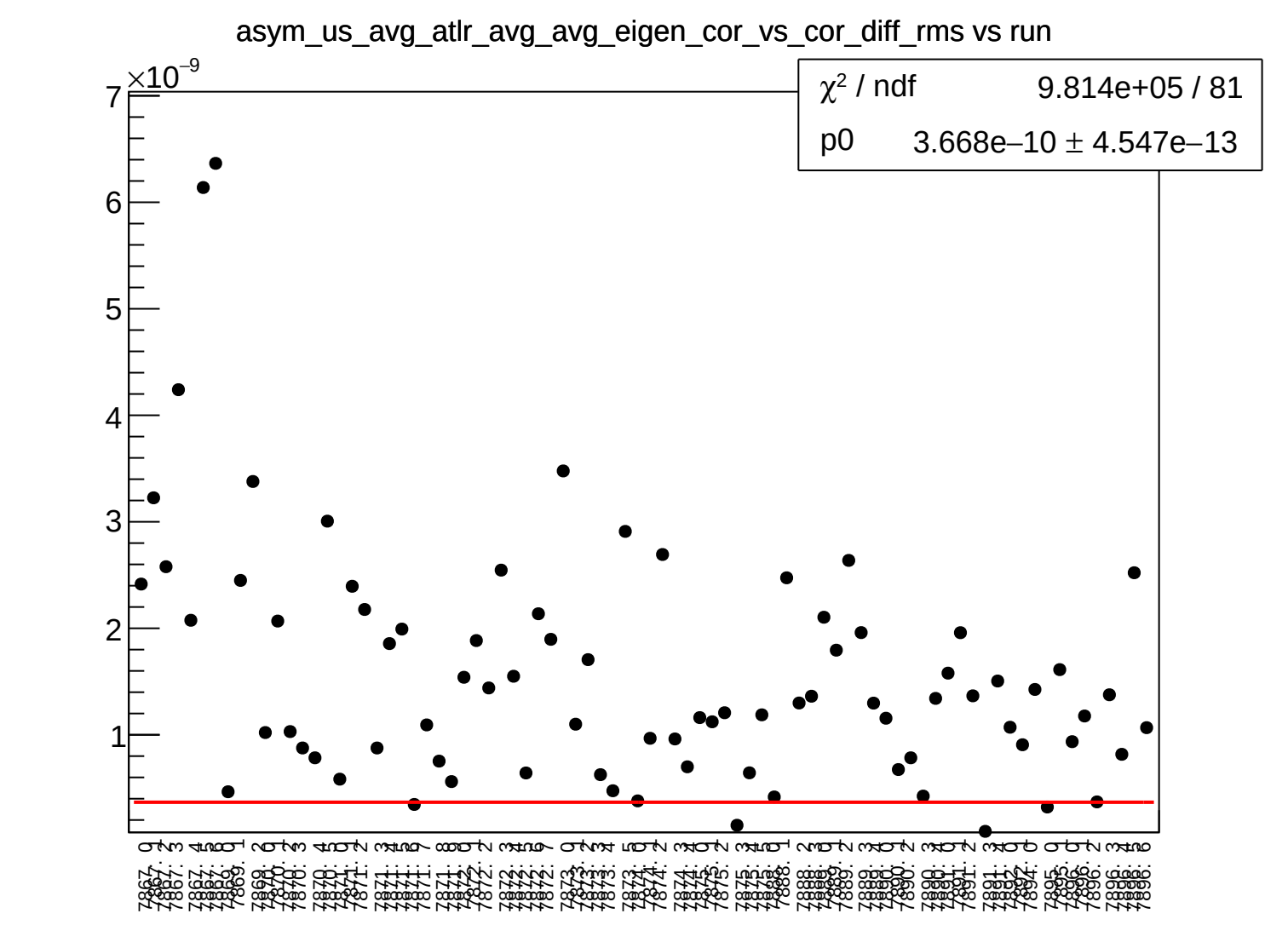

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.945e+05 / 81
p0 366.8 ± 0.306
1600
1400
1200
1000
800
600
400
200

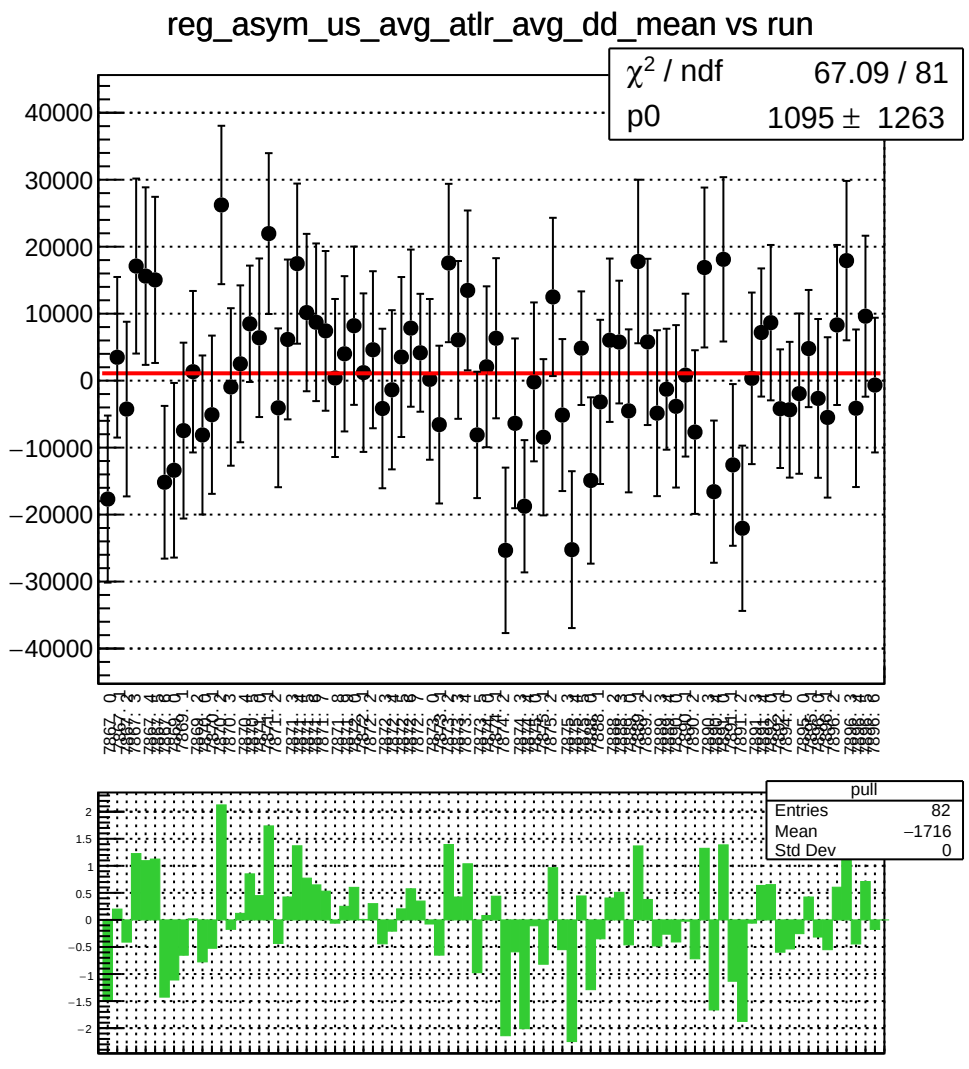

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.38 / 81
p0 −0.1949 ± 0.4327
pull
Entries 82
Mean −104
Std Dev 0
pull1D
Entries 82
Mean −0.03114
Std Dev 0.9772

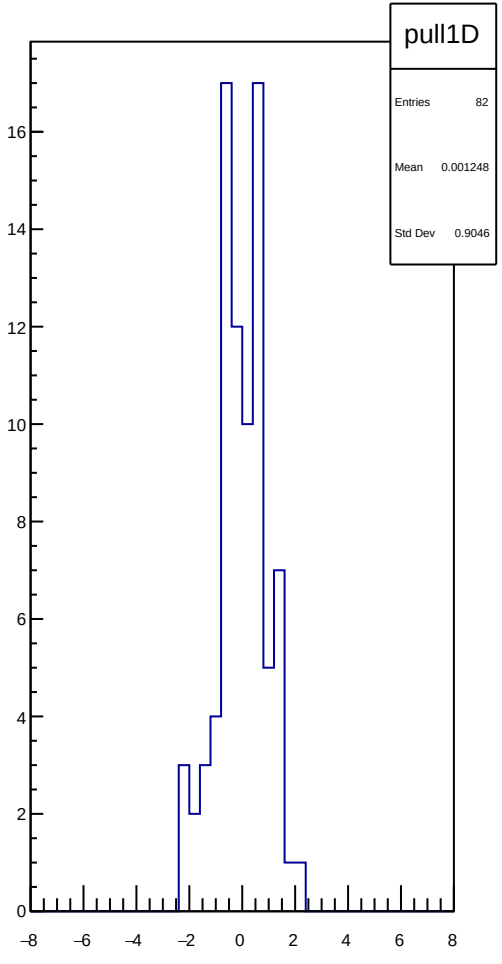

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.945e+05 / 81
p0 366.8 ± 0.306
1600
1400
1200
1000
800
600
400
200

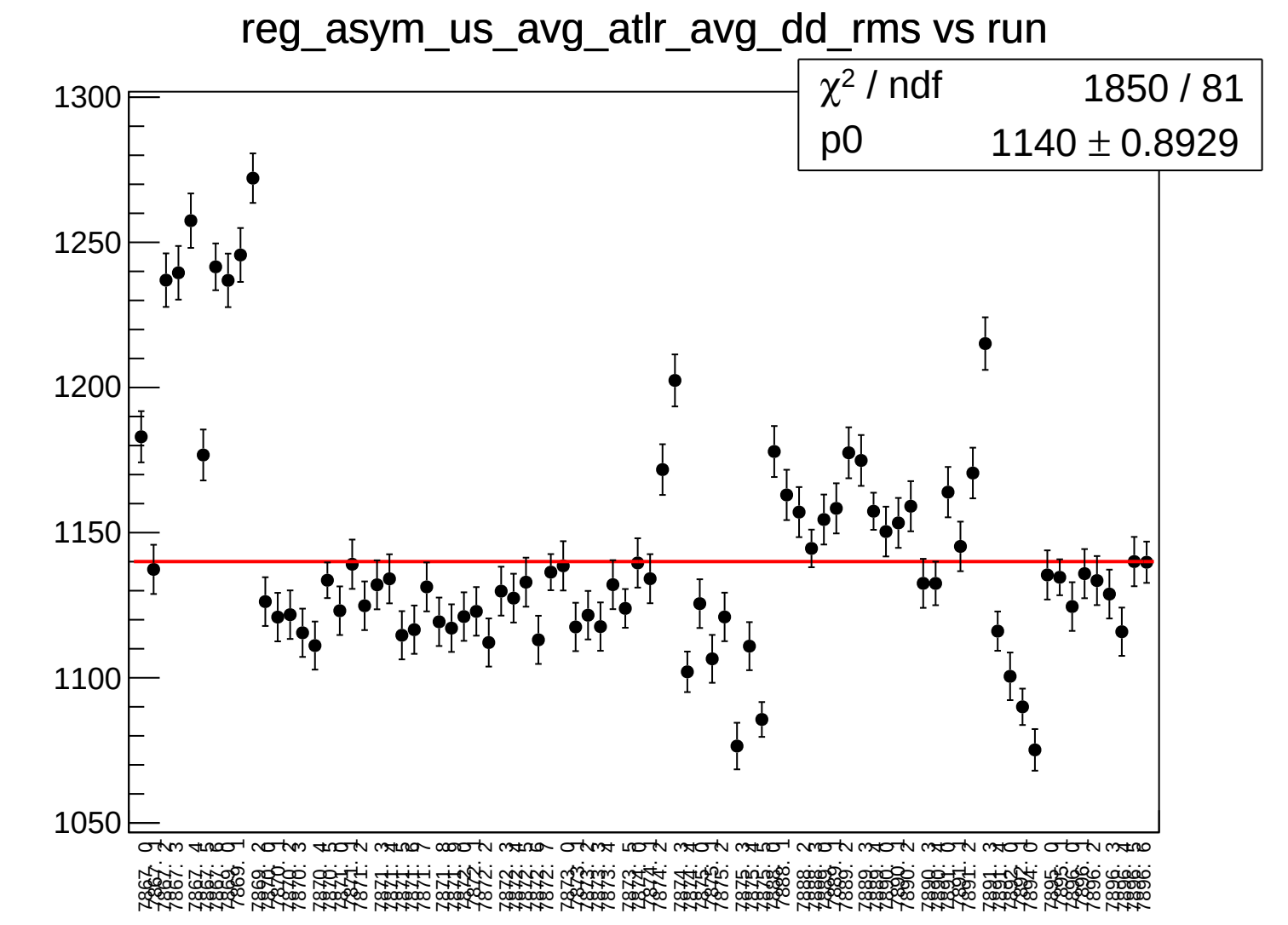

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.84 / 81
p0 8.241e−13 ± 6.43e−13
pull
Entries 82
Mean −28.69
Std Dev 0

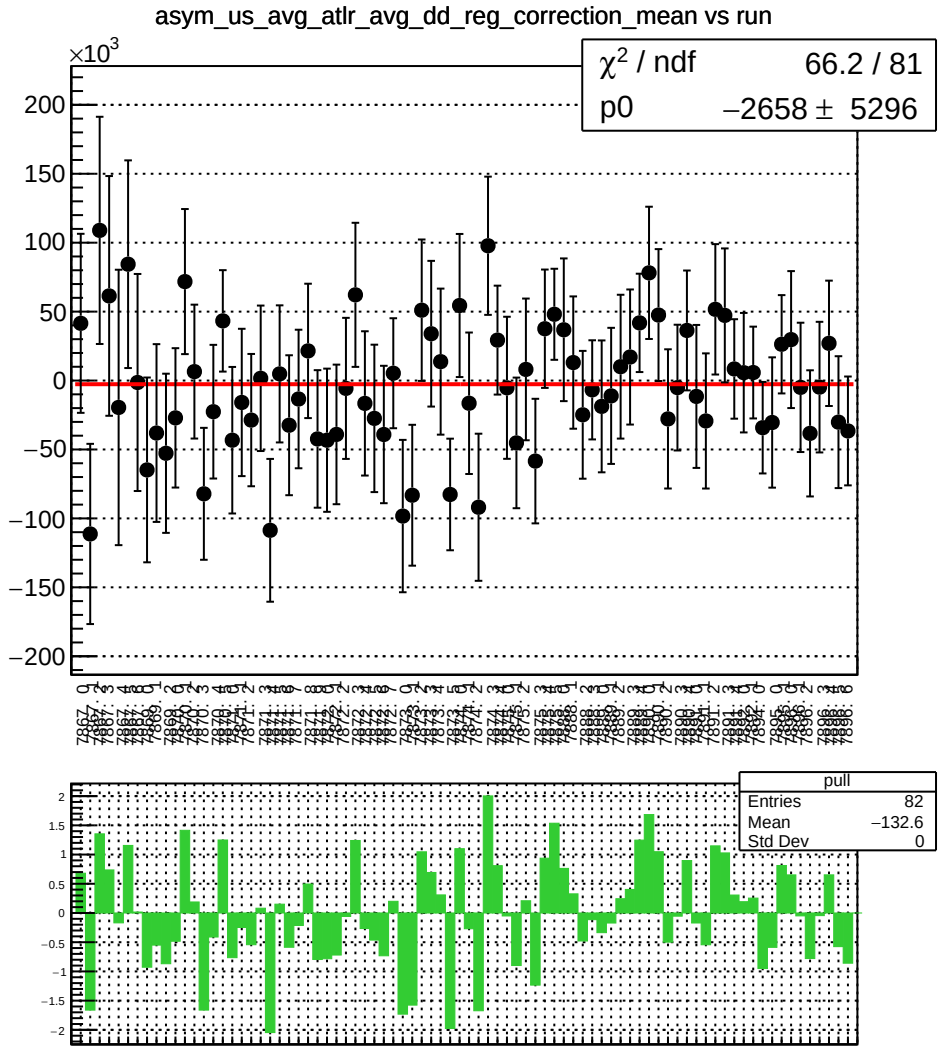

pull1D
Entries 82
Mean −0.03353
Std Dev 0.7789

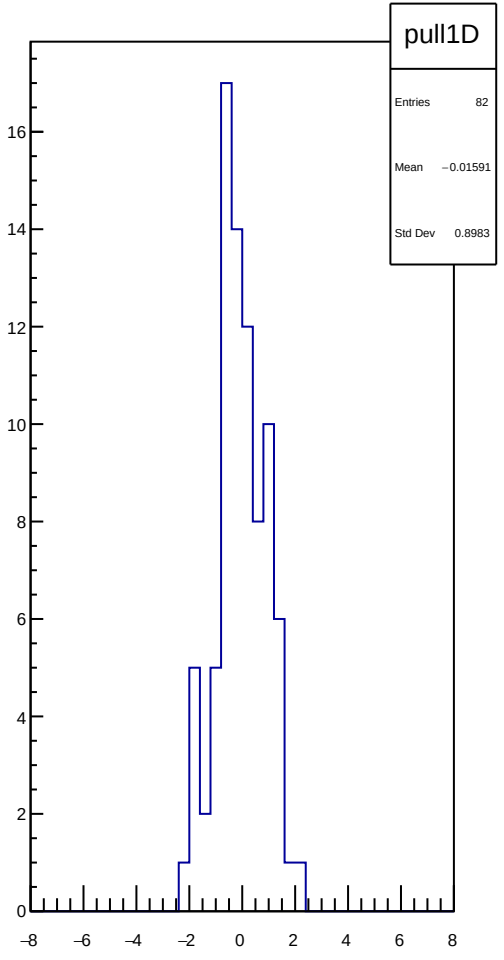

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
7
6
5
4
3
2
1
χ² / ndf 9.814e+05 / 81
p0 3.668e−10 ± 4.547e−13

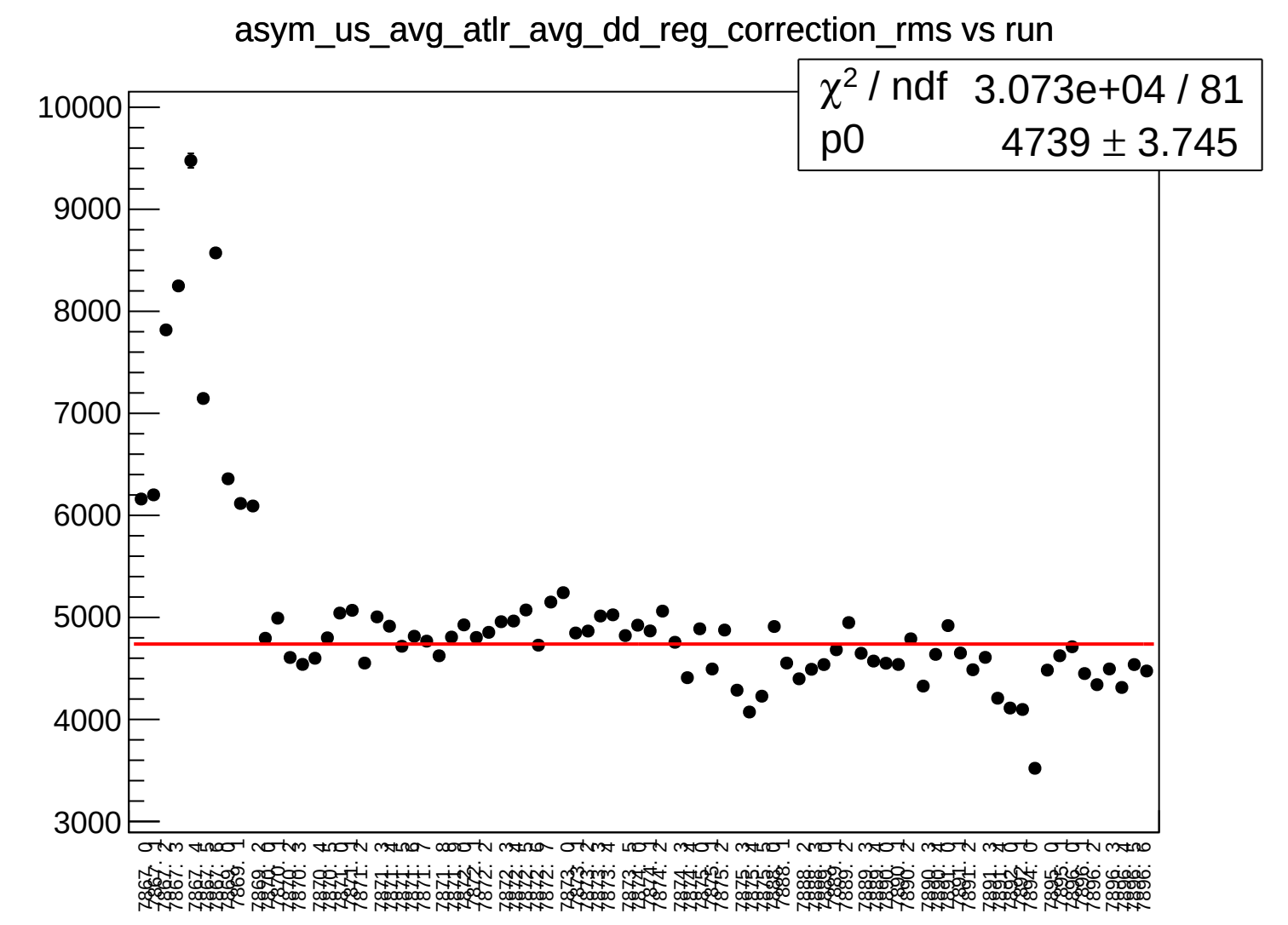

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 67.09 / 81
p0 1095 ± 1263
pull
Entries 82
Mean −1716
Std Dev 0

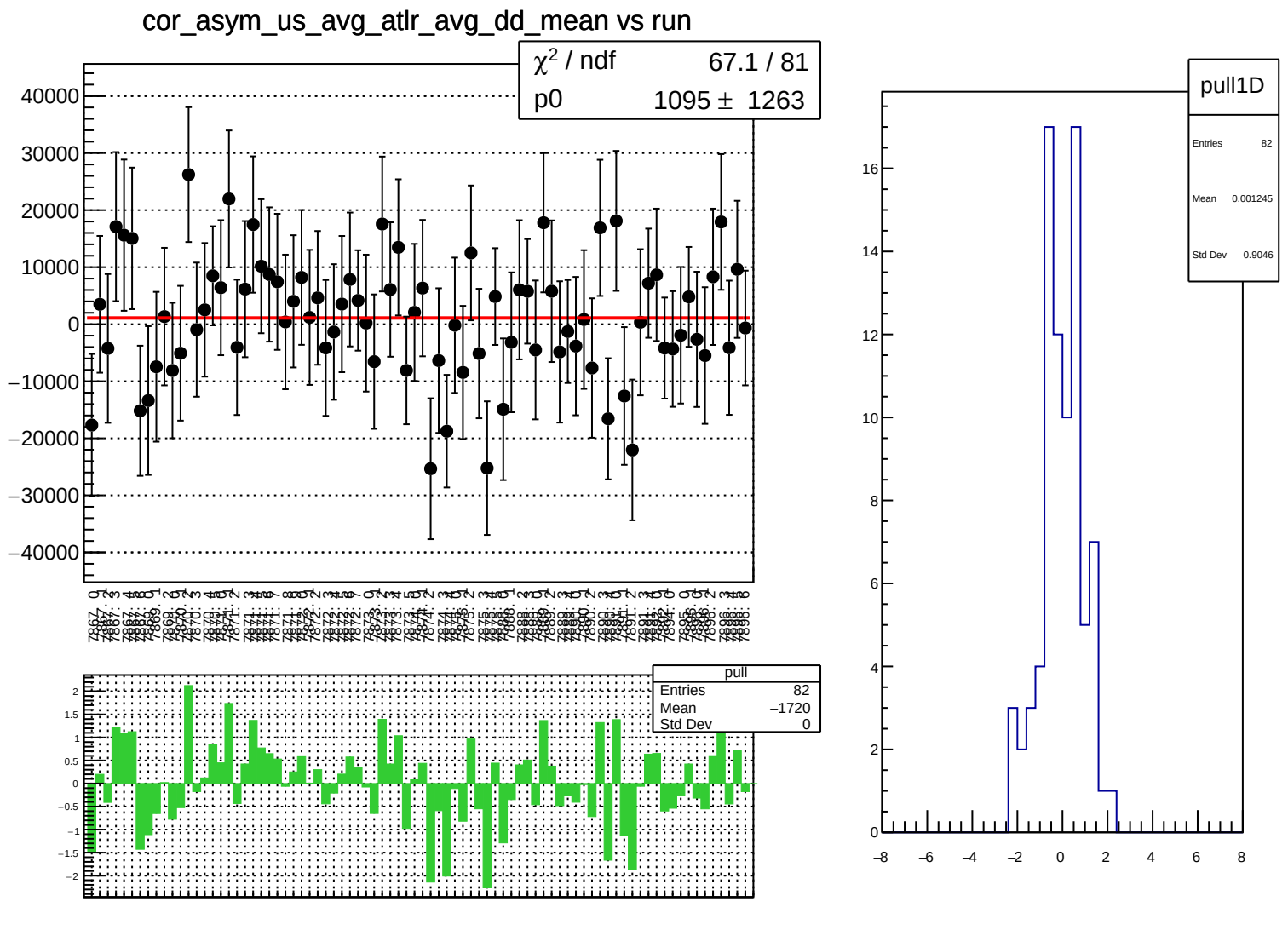

pull1D
Entries 82
Mean 0.001248
Std Dev 0.9046

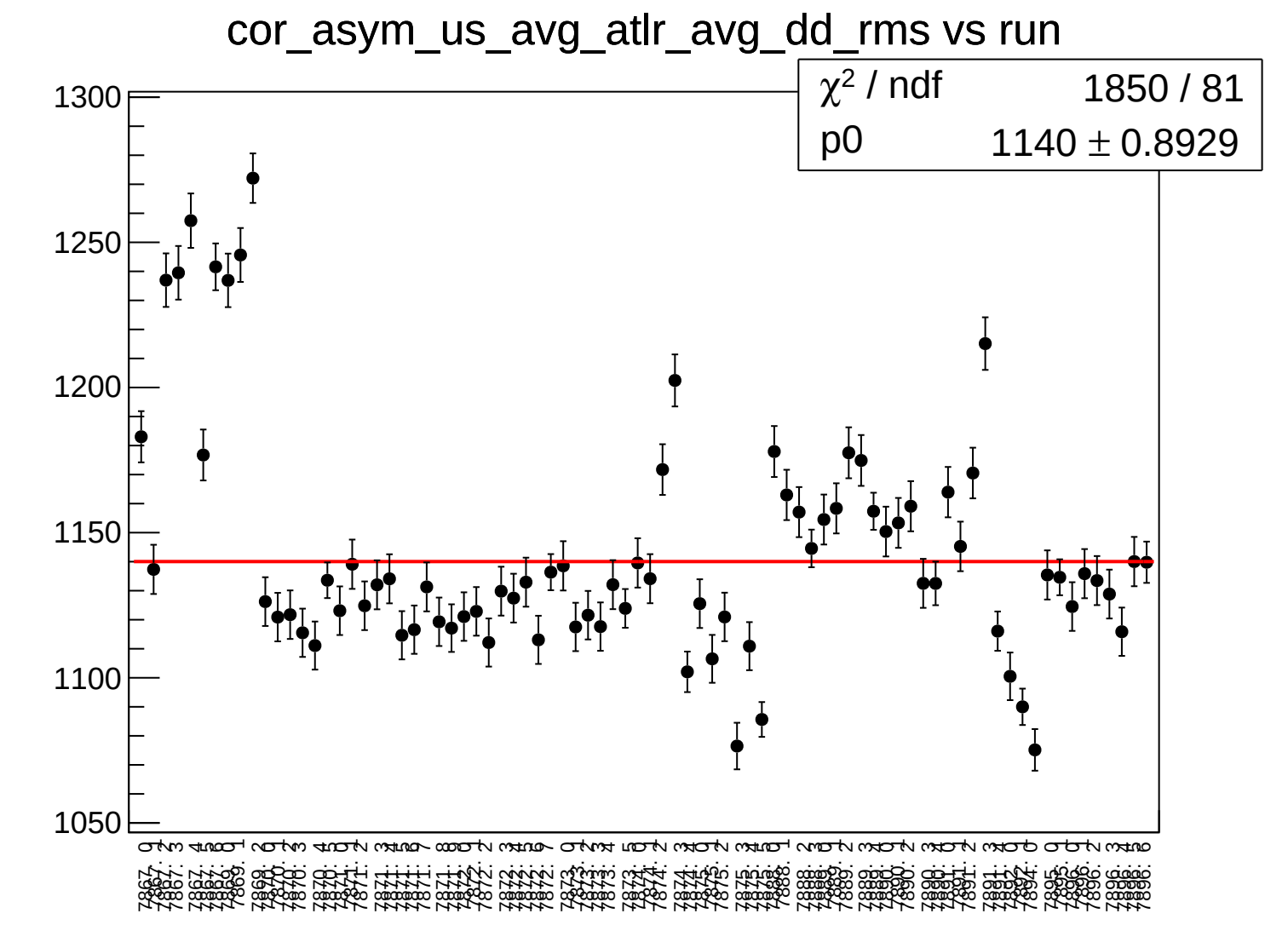

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1850 / 81
p0 1140 ± 0.8929
1300
1250
1200
1150
1100
1050

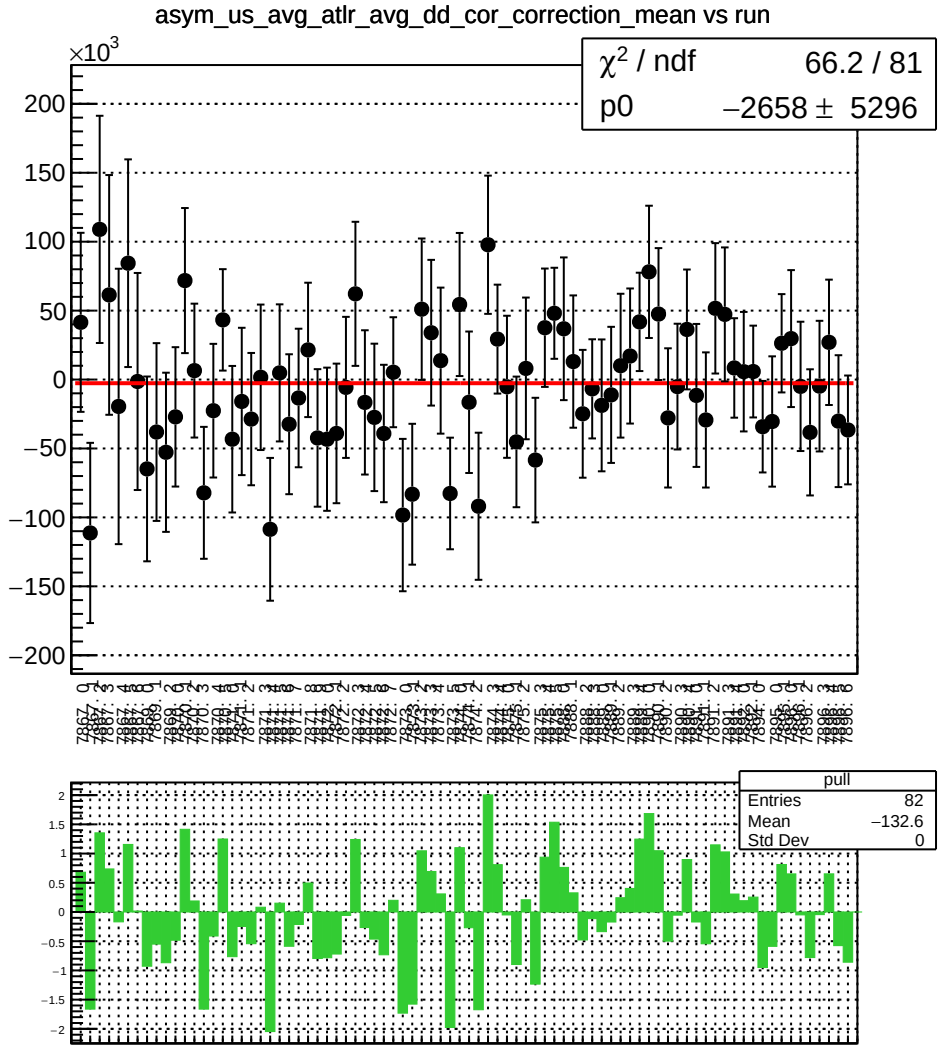

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 66.2 / 81
p0 −2658 ± 5296
pull
Entries 82
Mean −132.6
Std Dev 0

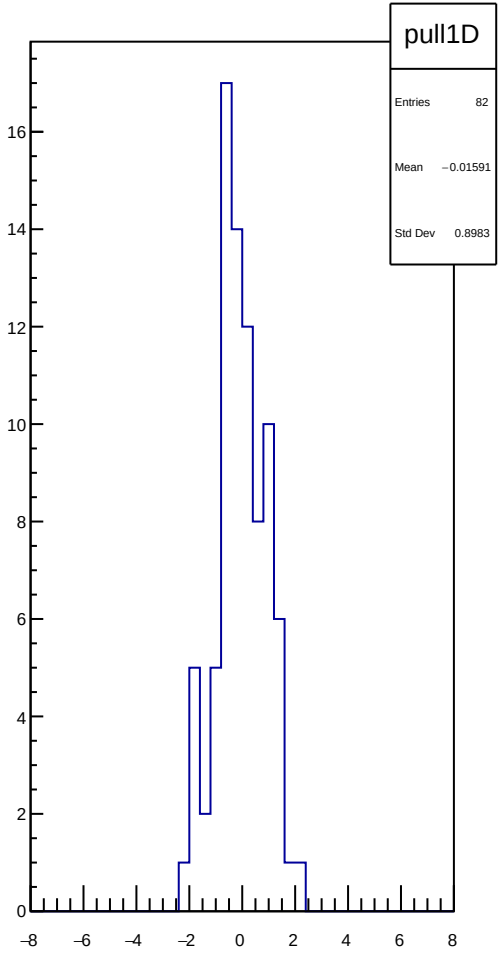

pull1D
Entries 82
Mean −0.01591
Std Dev 0.8983

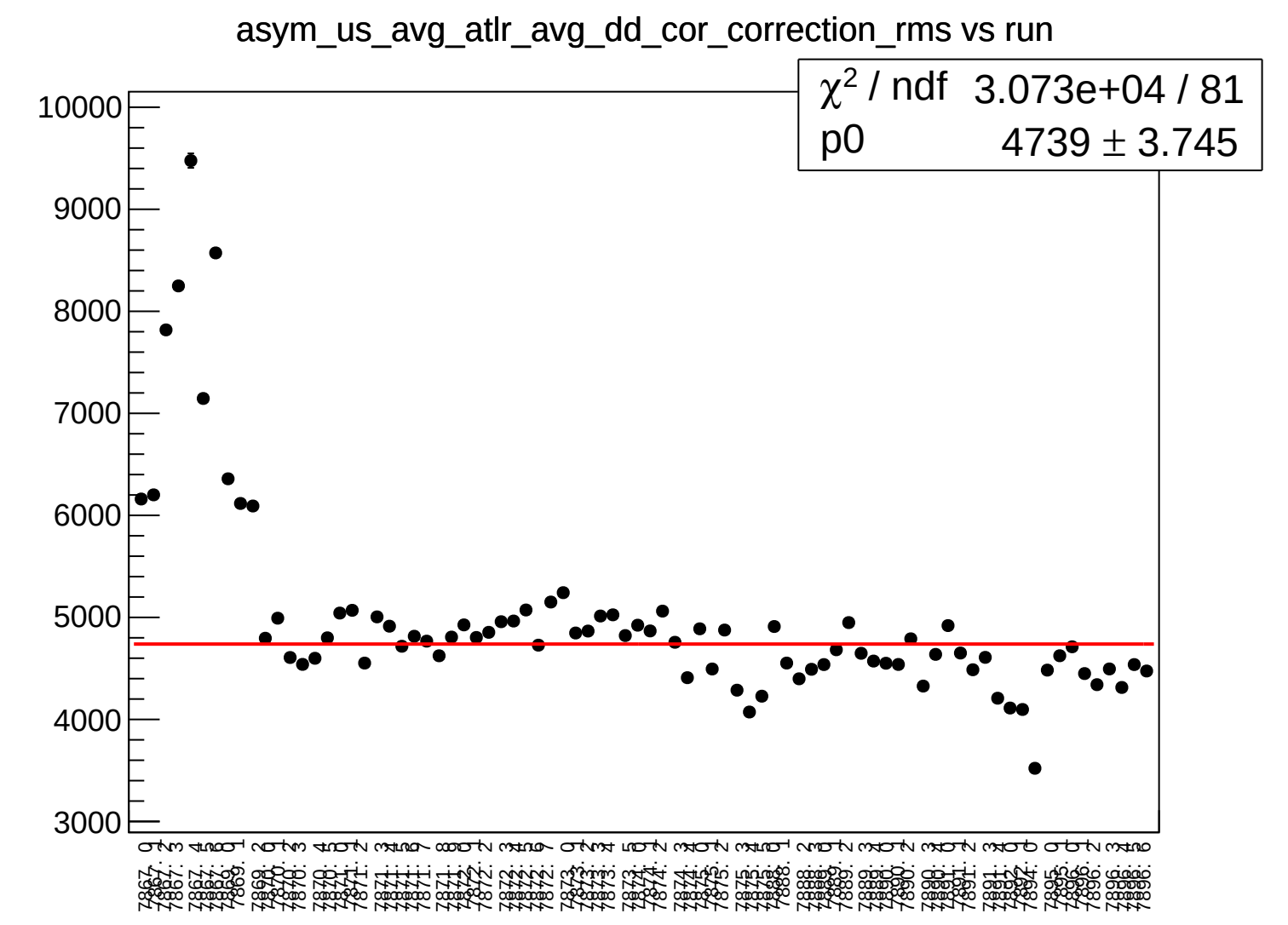

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.073e+04 / 81
p0 4739 ± 3.745
10000
9000
8000
7000
6000
5000
4000
3000

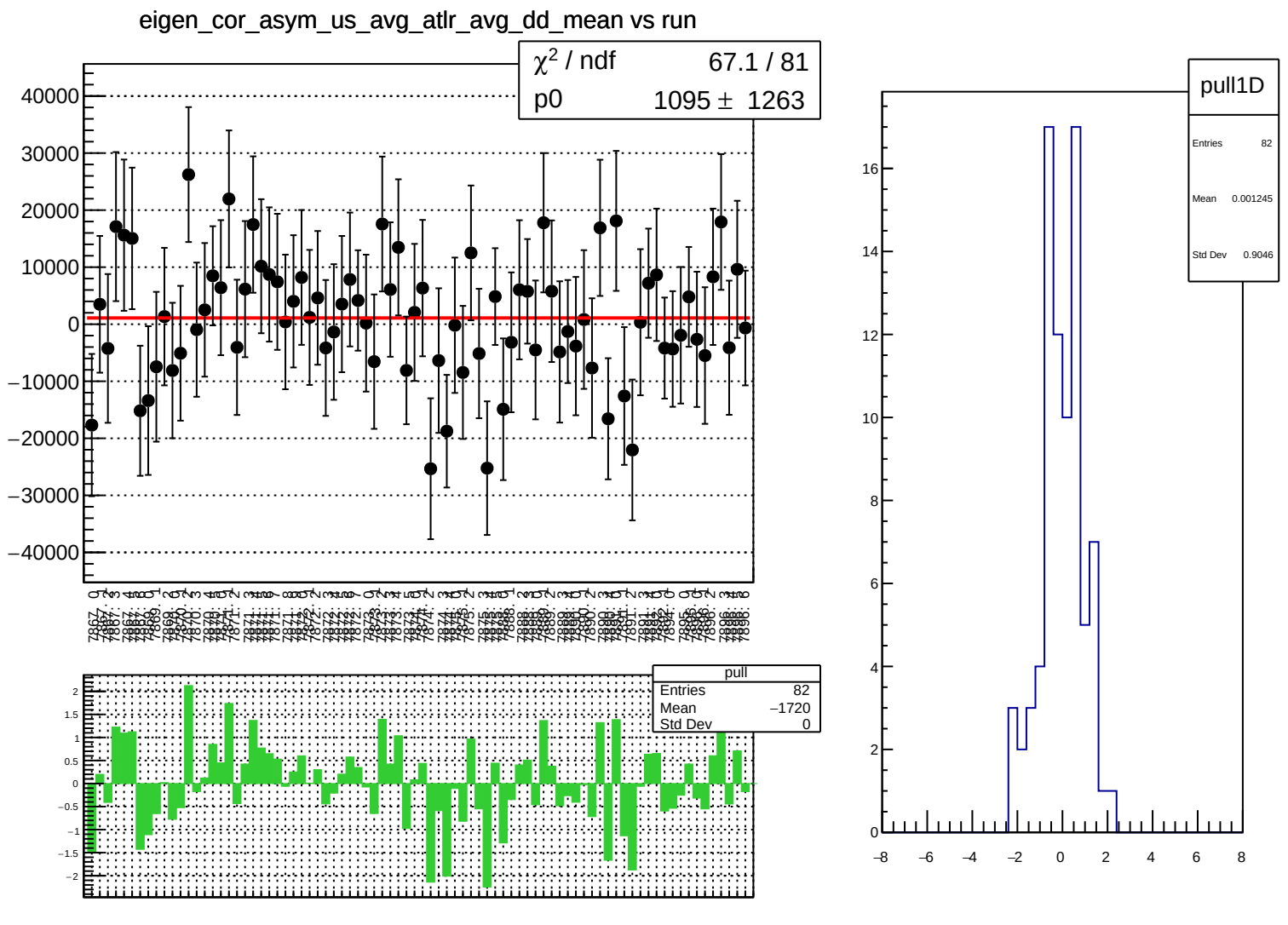

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 67.1 / 81
p0 1095 ± 1263
pull
Entries 82
Mean −1720
Std Dev 0
pull1D
Entries 82
Mean 0.001245
Std Dev 0.9046

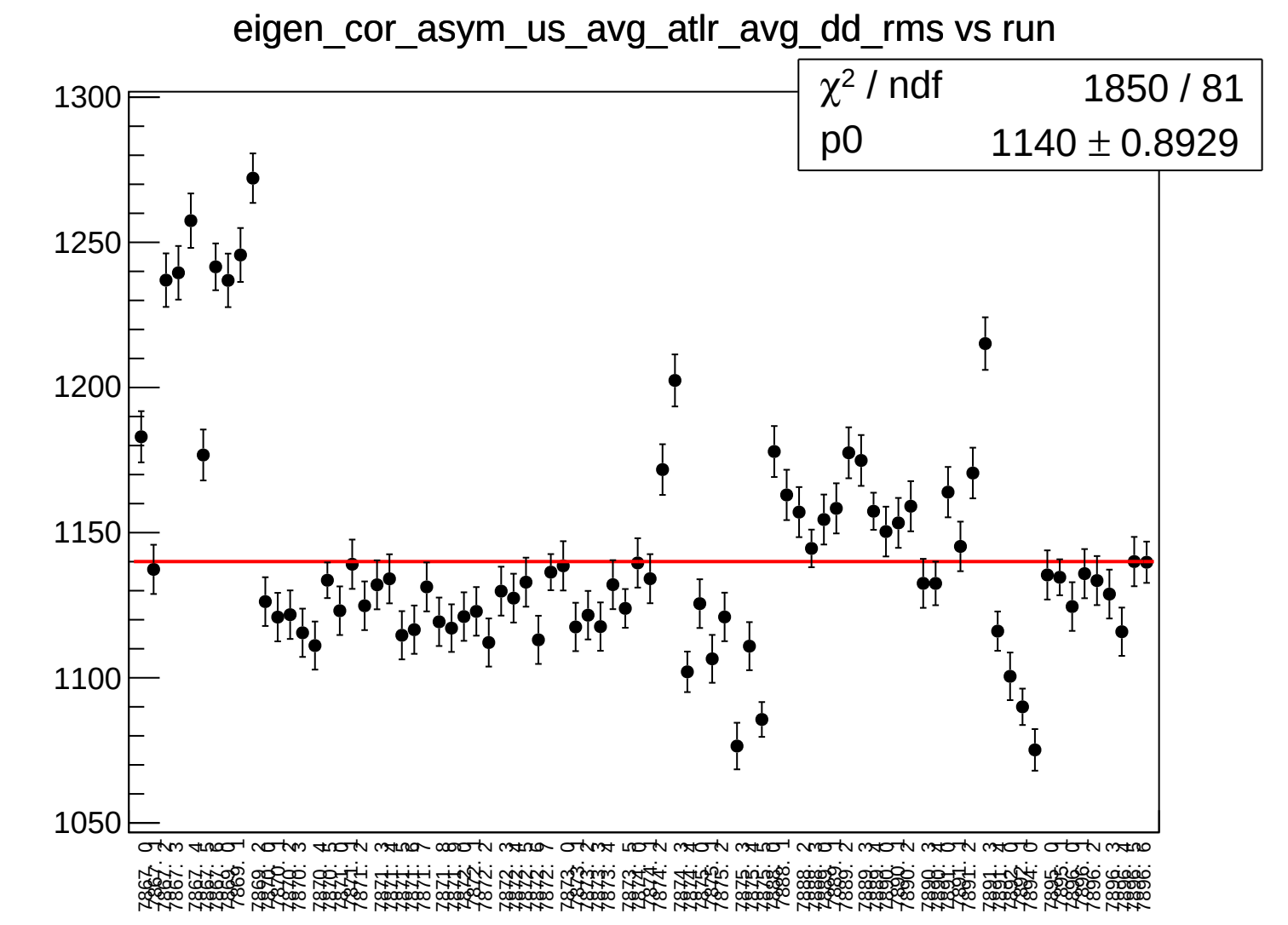

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1850 / 81
p0 1140 ± 0.8929
1300
1250
1200
1150
1100
1050

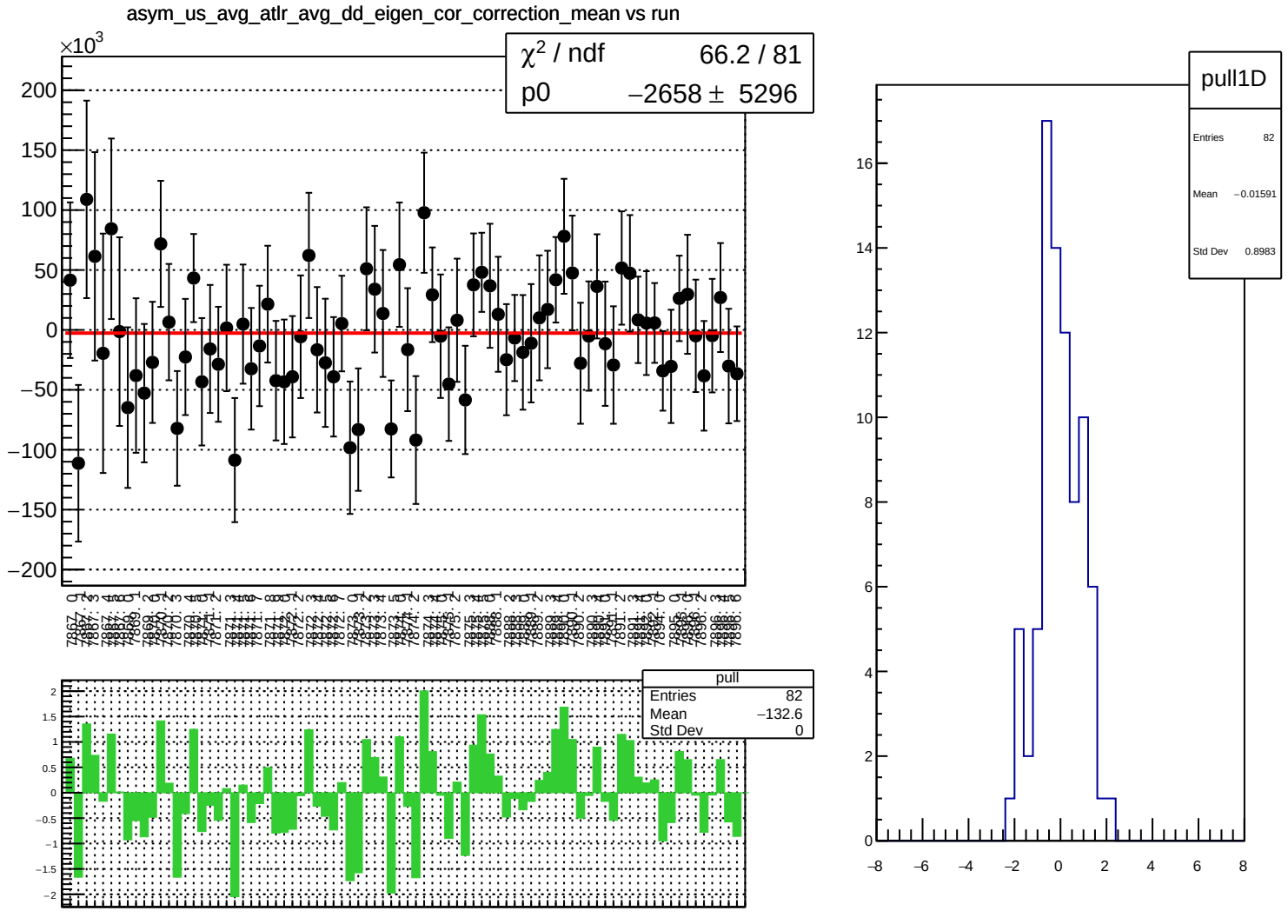

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.2 / 81
p0 −2658 ± 5296
pull
Entries 82
Mean −132.6
Std Dev 0

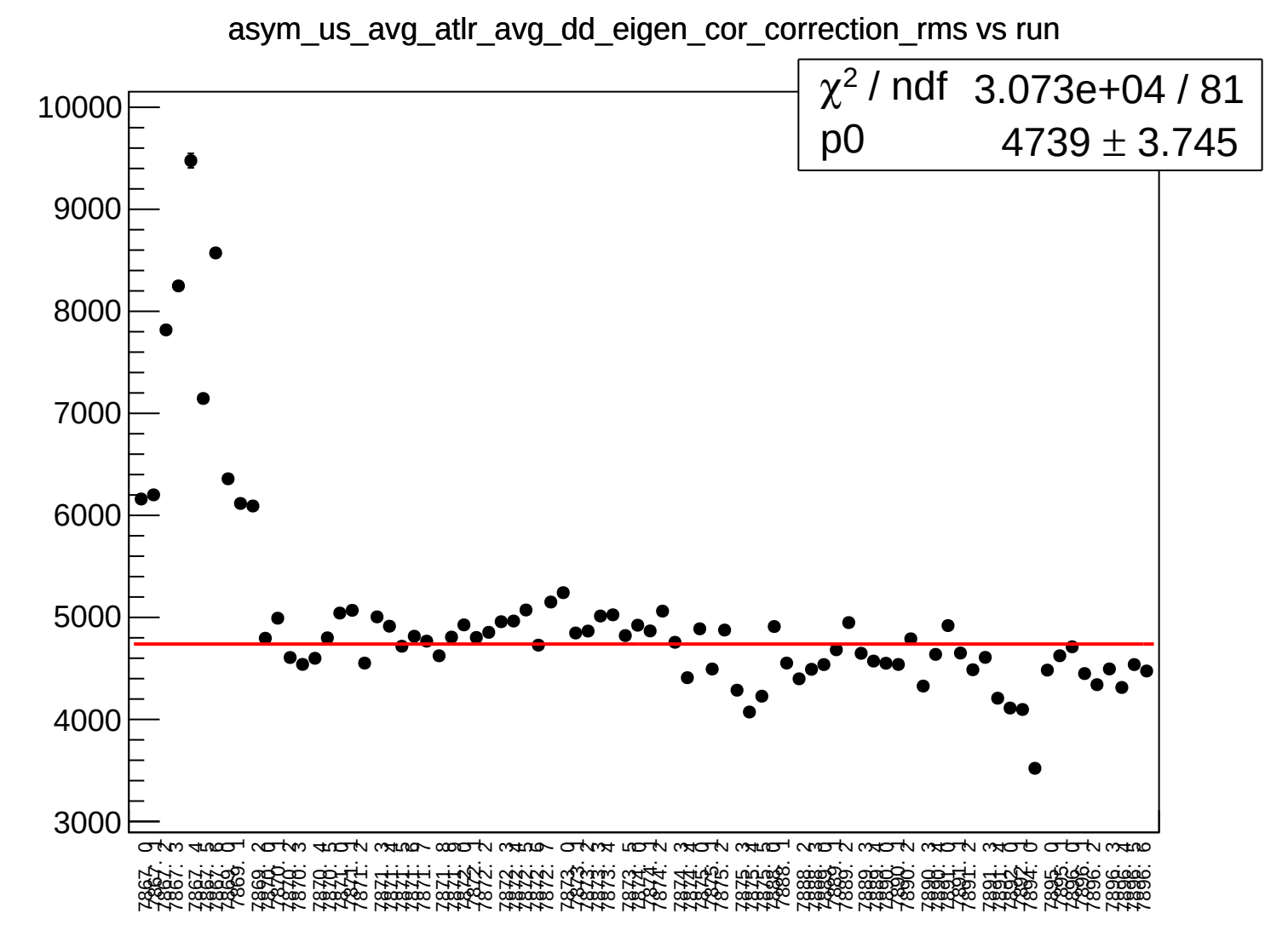

pull1D
Entries 82
Mean −0.01591
Std Dev 0.8983

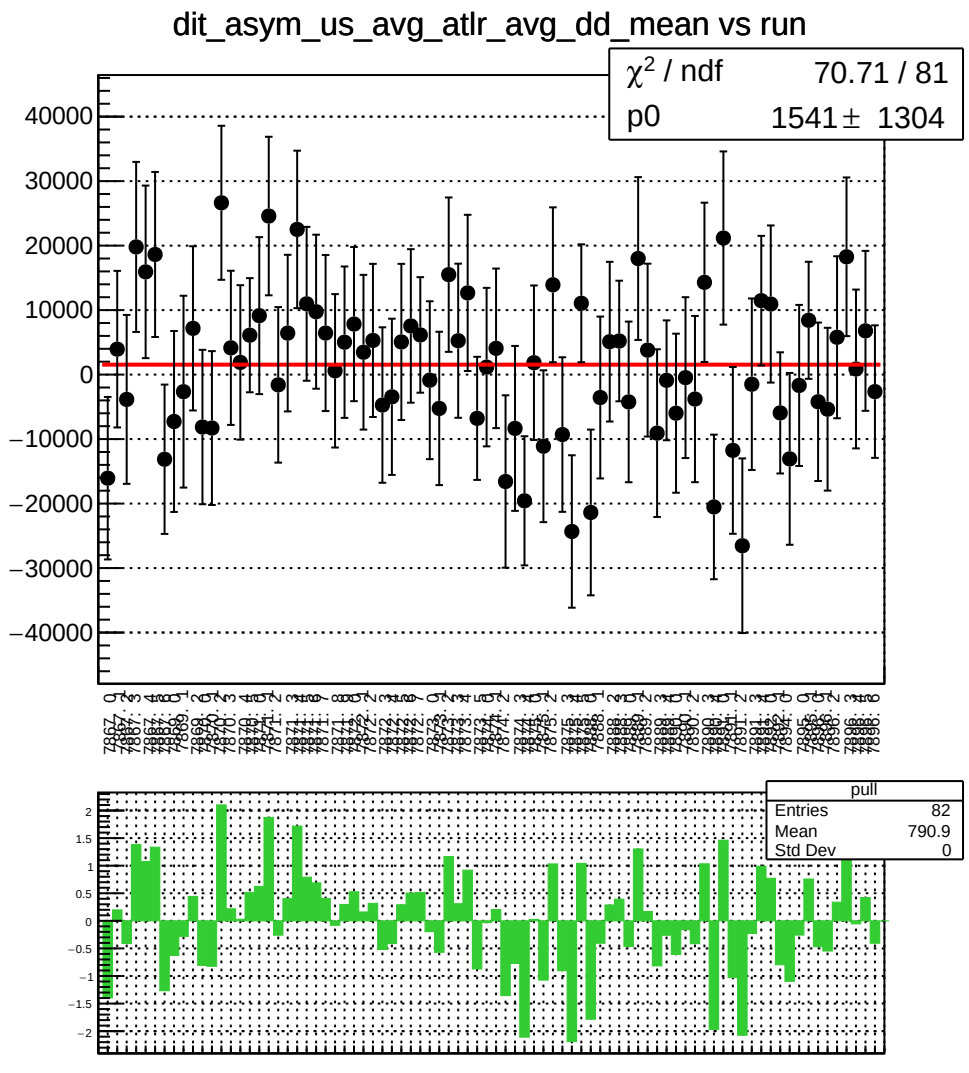

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.073e+04 / 81
p0 4739 ± 3.745
10000
9000
8000
7000
6000
5000
4000
3000

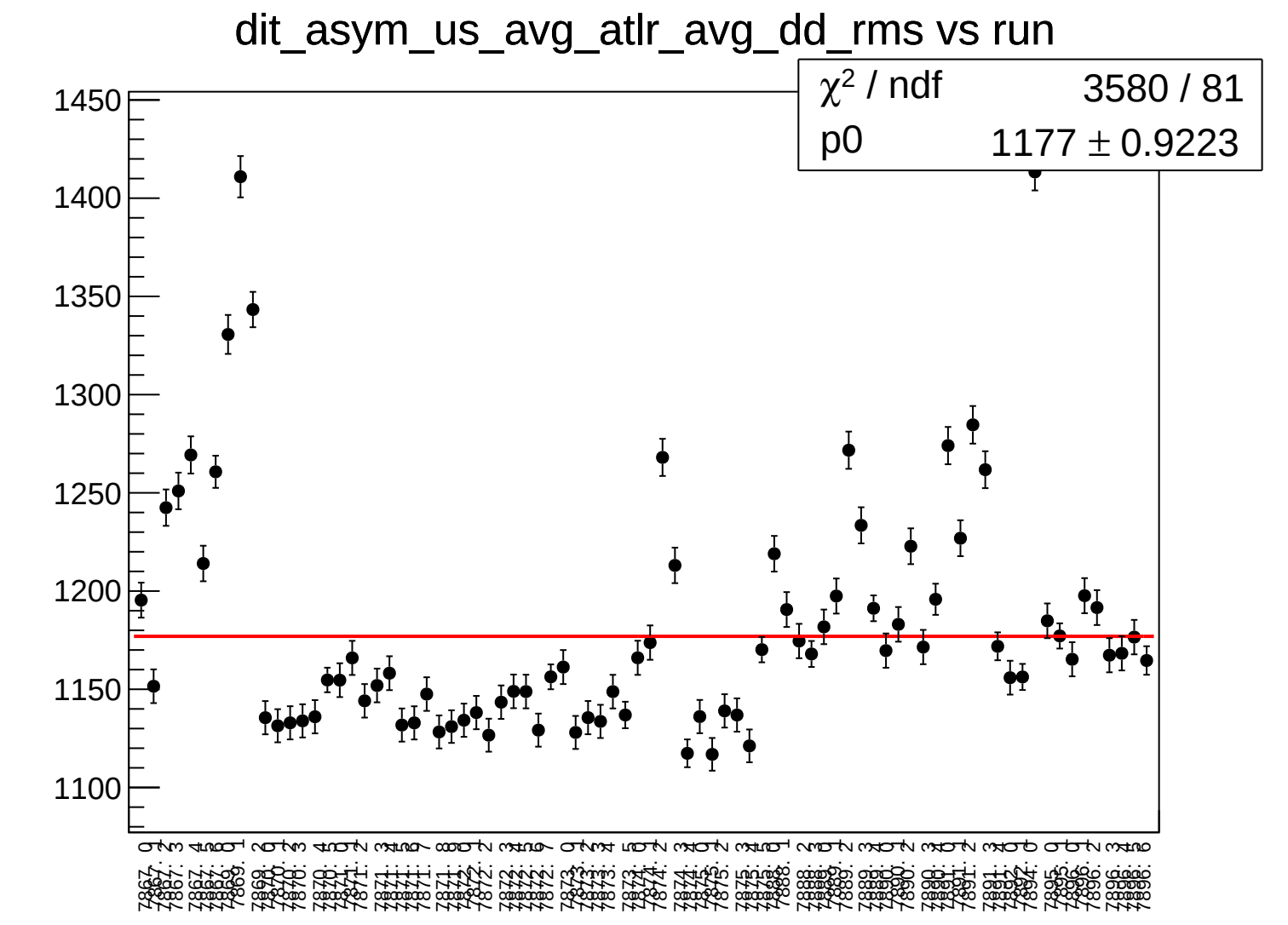

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 67.1 / 81
p0 1095 ± 1263
pull
Entries 82
Mean −1720
Std Dev 0
pull1D
Entries 82
Mean 0.001245
Std Dev 0.9046

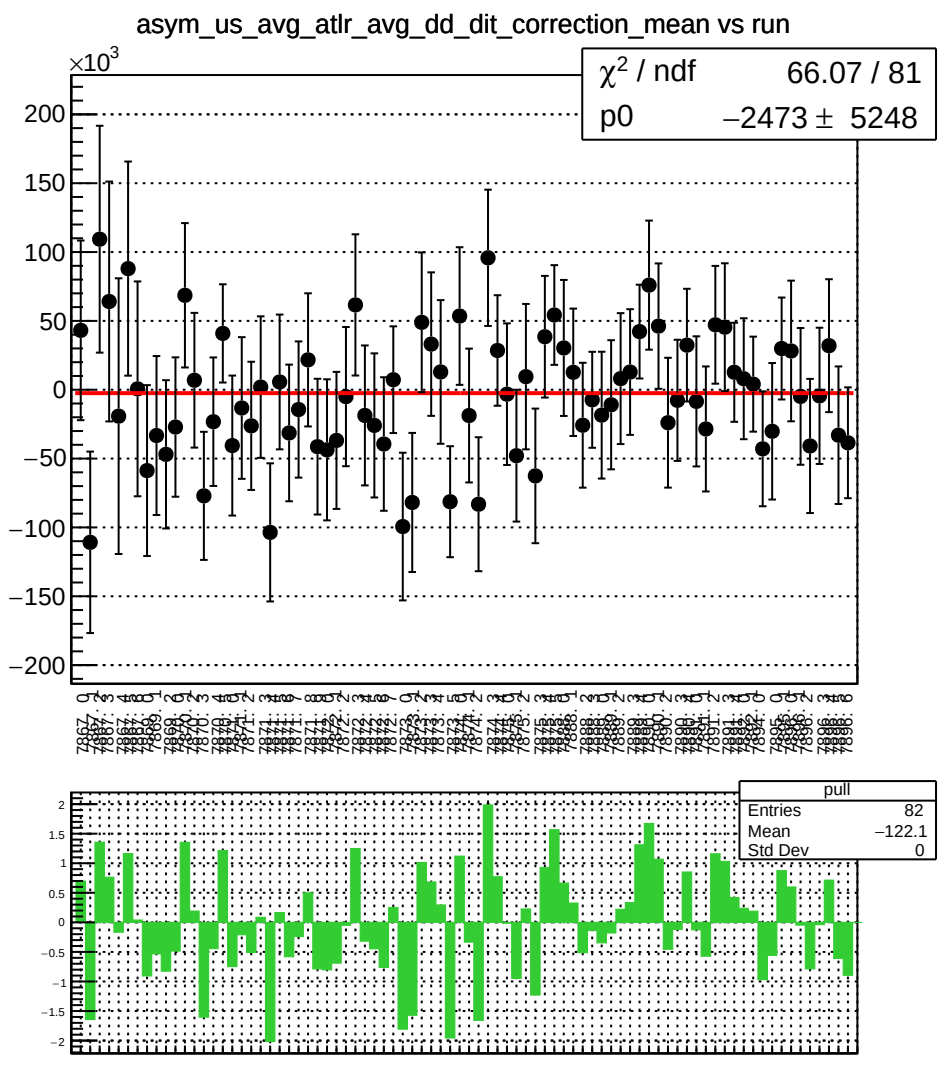

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1850 / 81
p0 1140 ± 0.8929
1300
1250
1200
1150
1100
1050

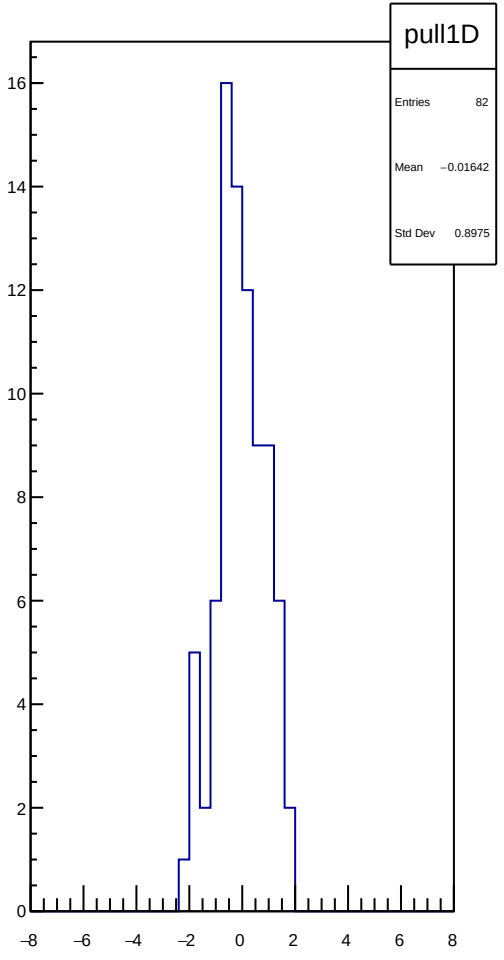

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.2 / 81
p0 −2658 ± 5296
pull
Entries 82
Mean −132.6
Std Dev 0
pull1D
Entries 82
Mean −0.01591
Std Dev 0.8983

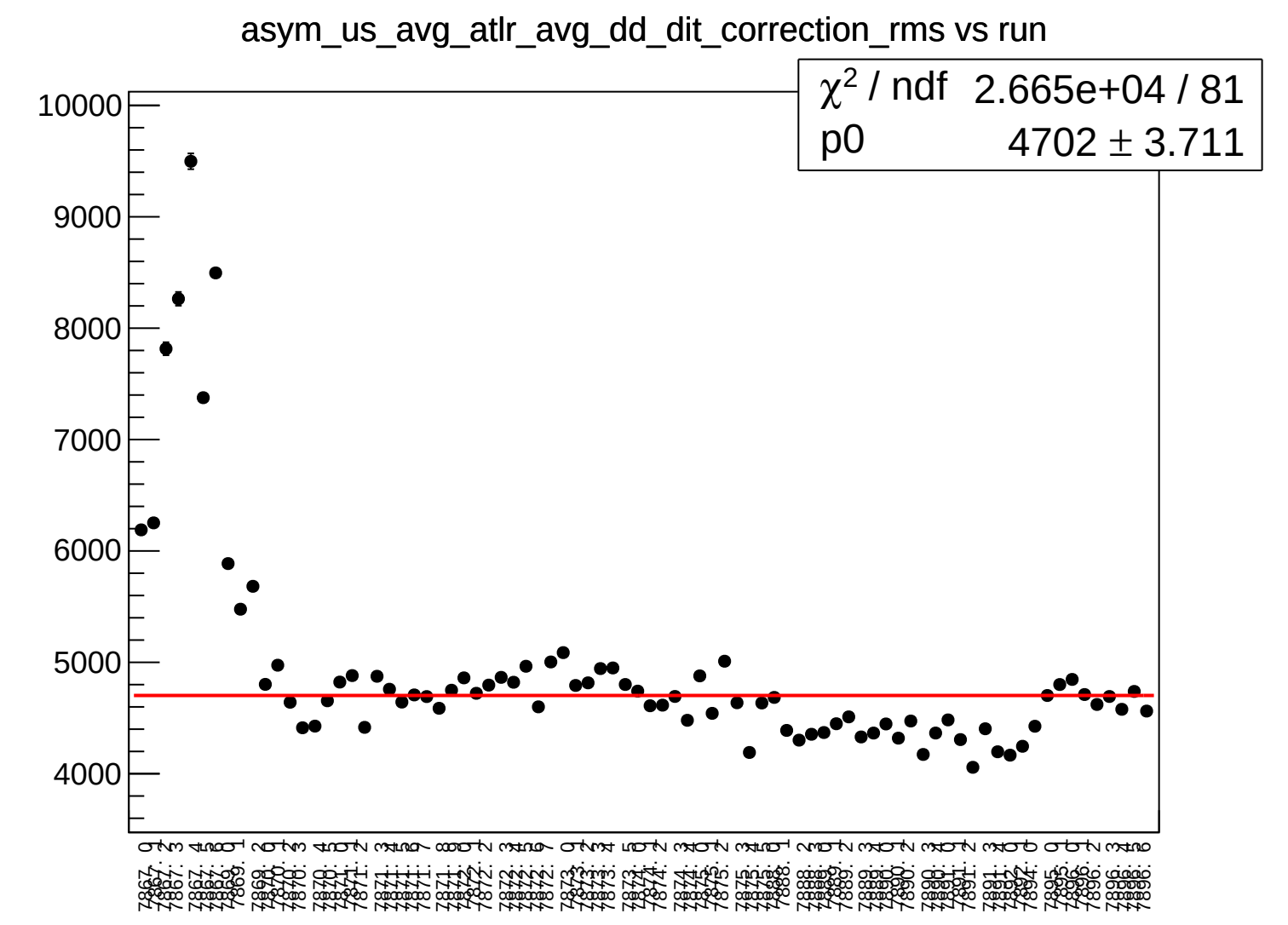

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.073e+04 / 81
p0 4739 ± 3.745
10000
9000
8000
7000
6000
5000
4000
3000

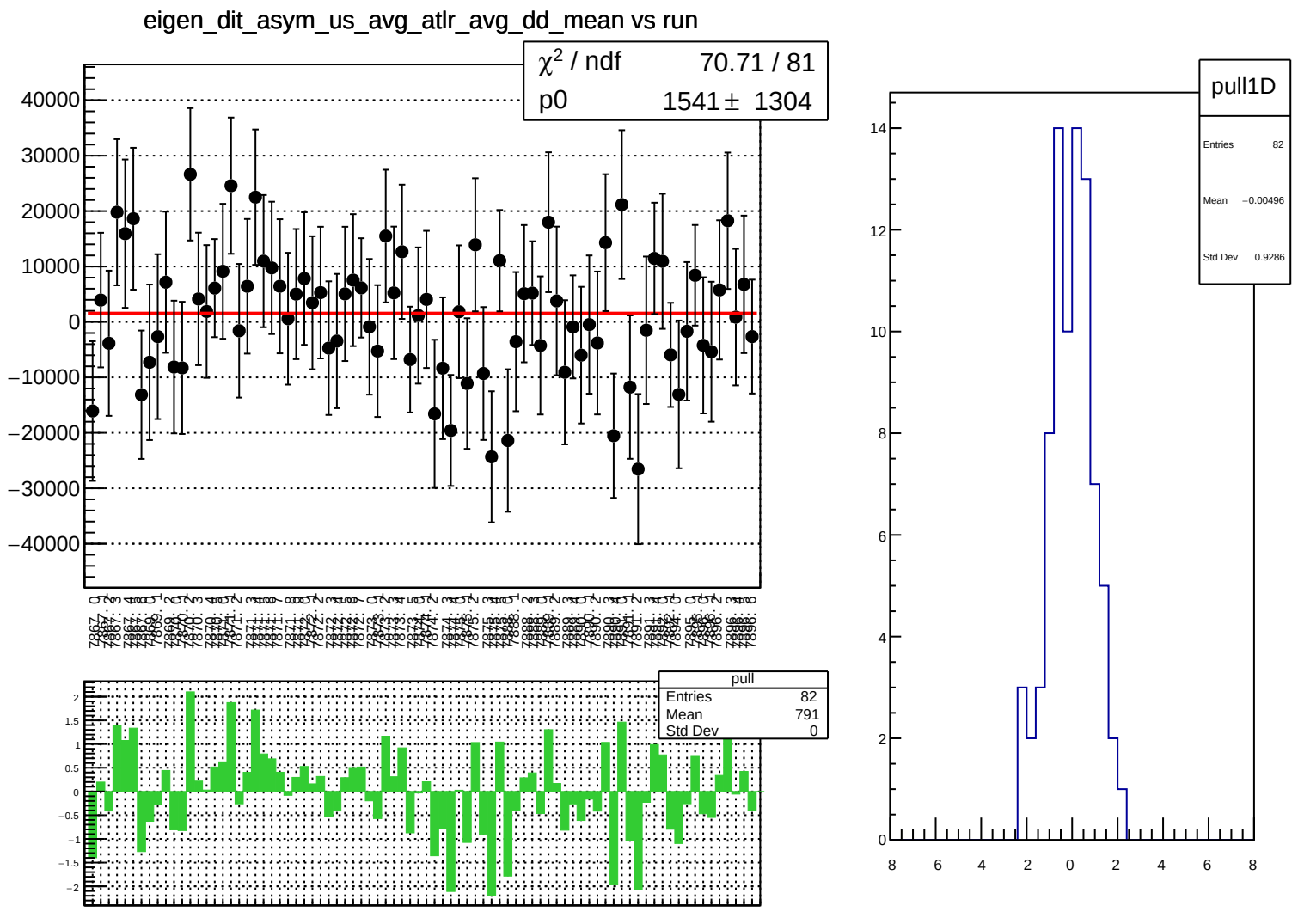

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 70.71 / 81
p0 1541 ± 1304
pull
Entries 82
Mean 790.9
Std Dev 0
pull1D
Entries 82
Mean −0.00496
Std Dev 0.9286

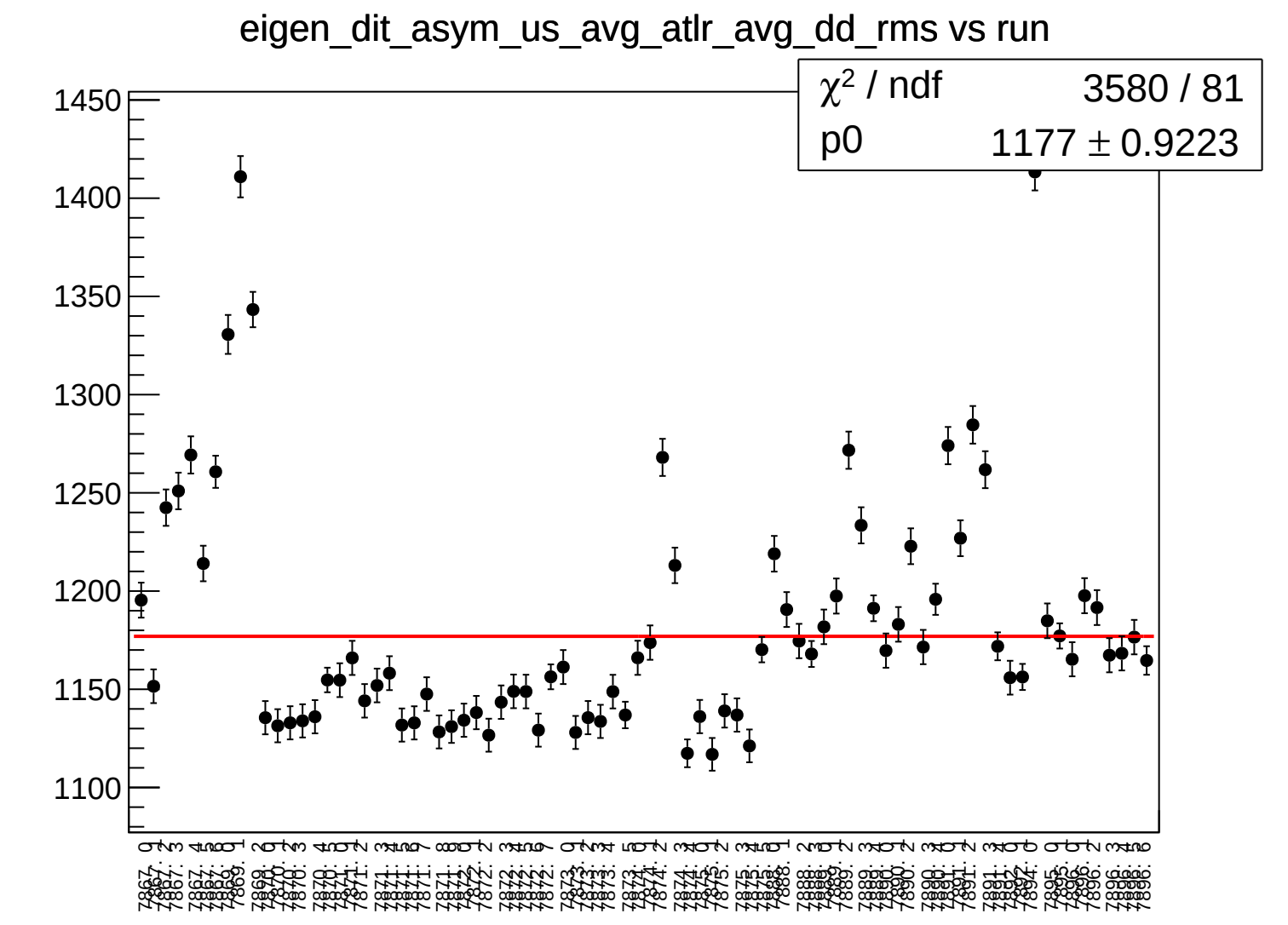

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3580 / 81
p0 1177 ± 0.9223
1450
1400
1350
1300
1250
1200
1150
1100

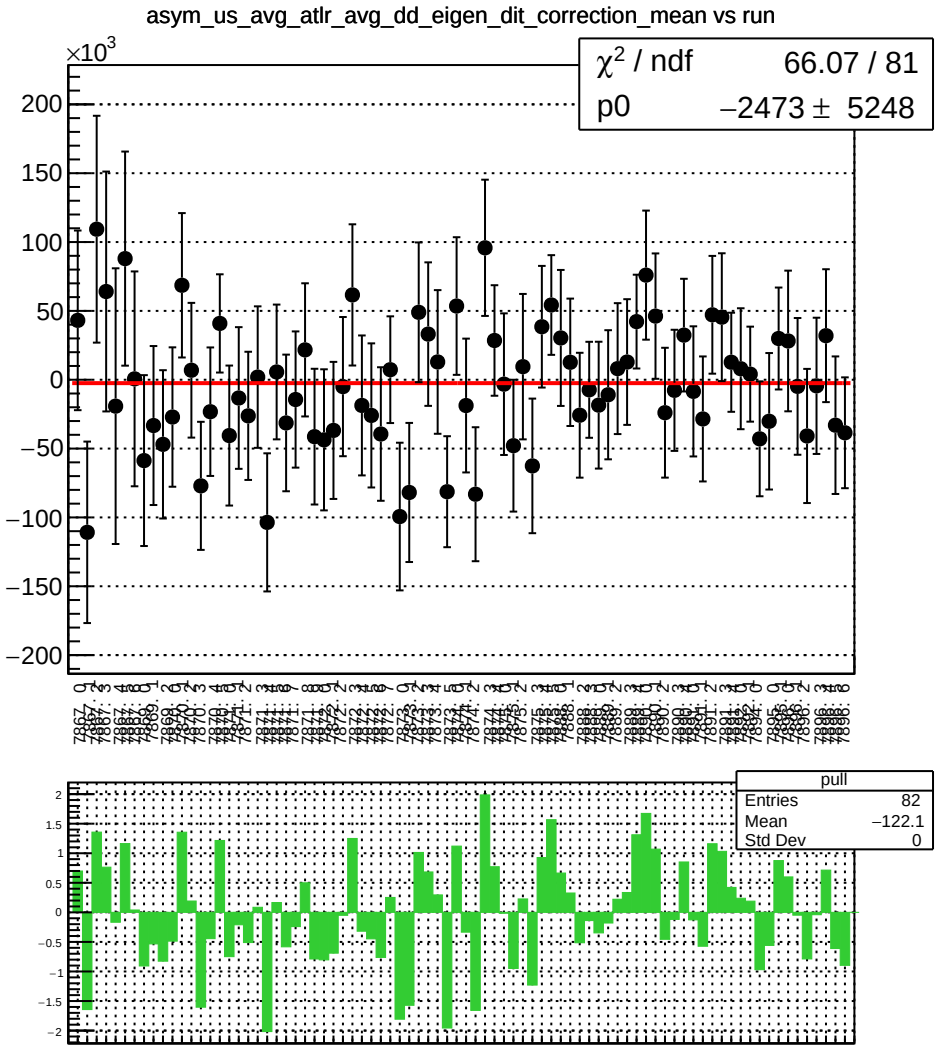

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.07 / 81
p0 −2473 ± 5248
pull
Entries 82
Mean −122.1
Std Dev 0

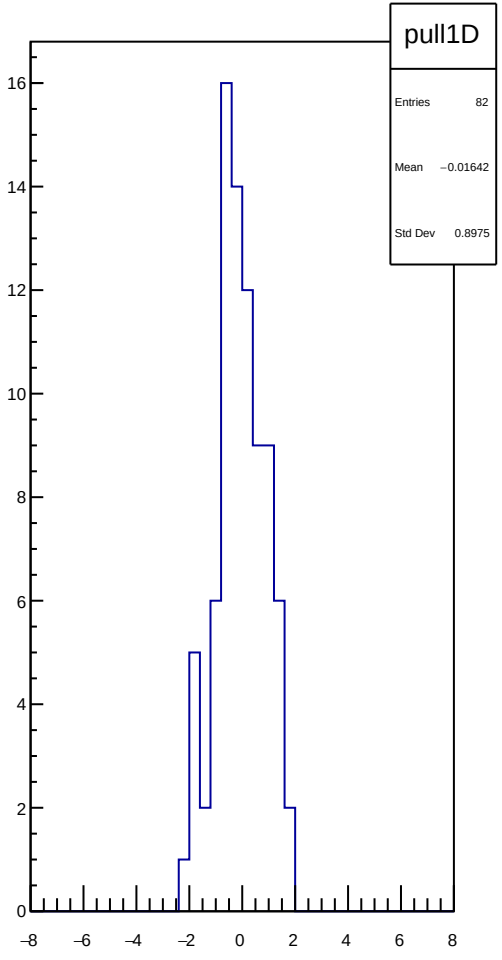

pull1D
Entries 82
Mean −0.01642
Std Dev 0.8975

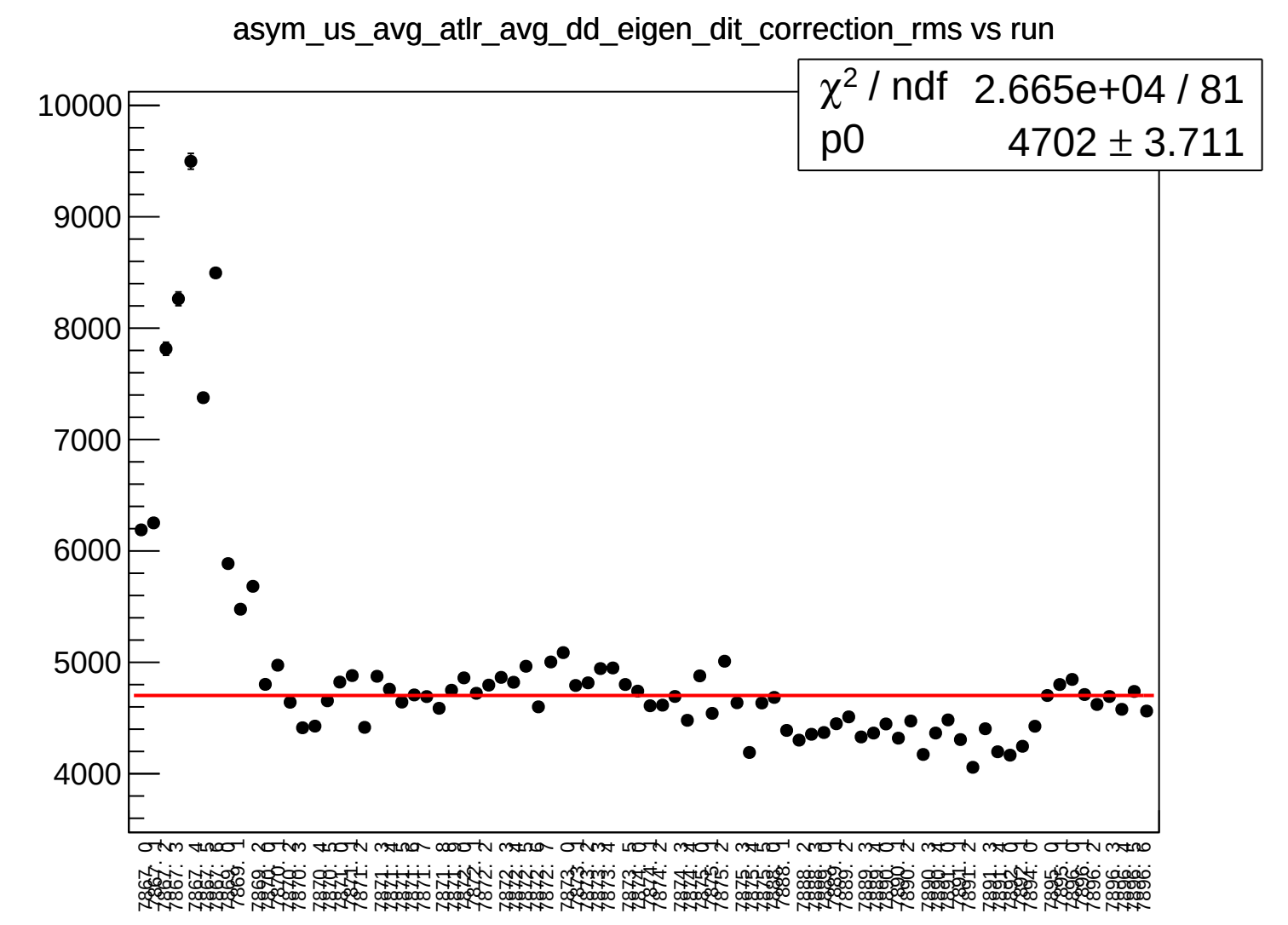

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.665e+04 / 81
p0 4702 ± 3.711
10000
9000
8000
7000
6000
5000
4000

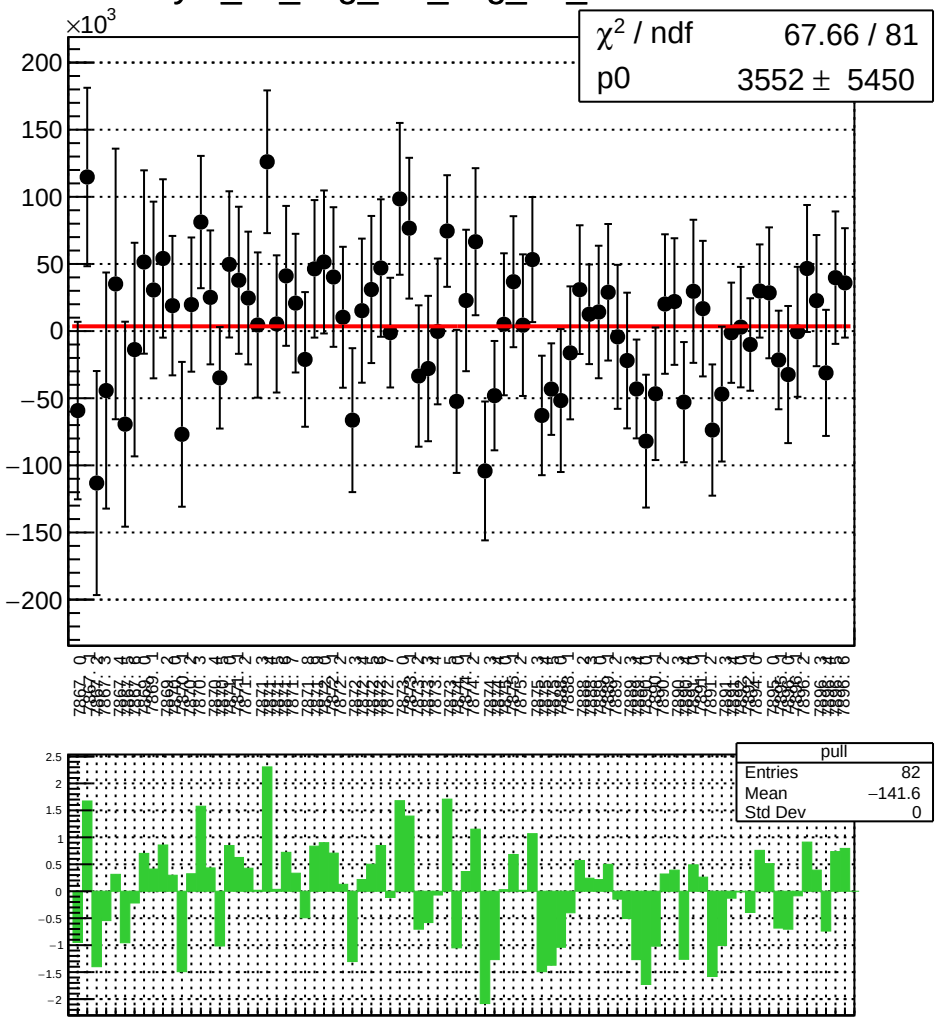

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 70.71 / 81
p0 1541 ± 1304
pull
Entries 82
Mean 791
Std Dev 0
pull1D
Entries 82
Mean −0.00496
Std Dev 0.9286

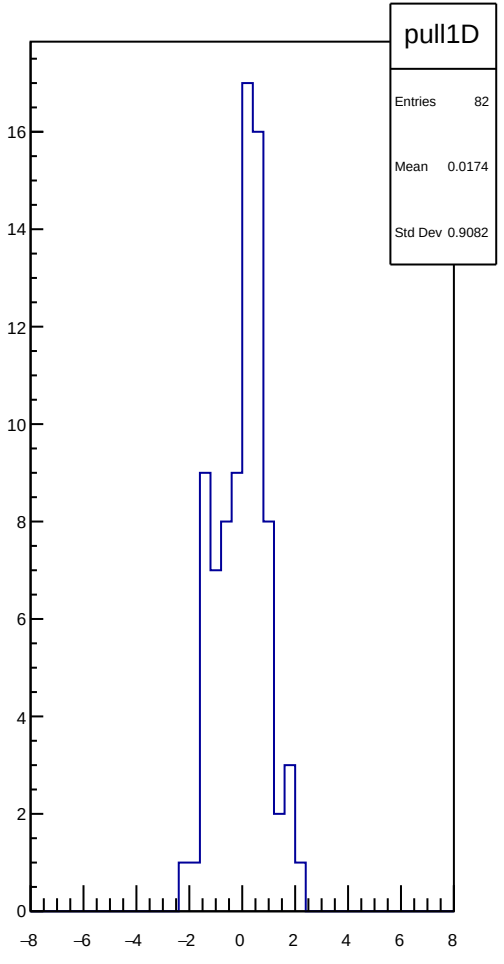

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3580 / 81
p0 1177 ± 0.9223
1450
1400
1350
1300
1250
1200
1150
1100

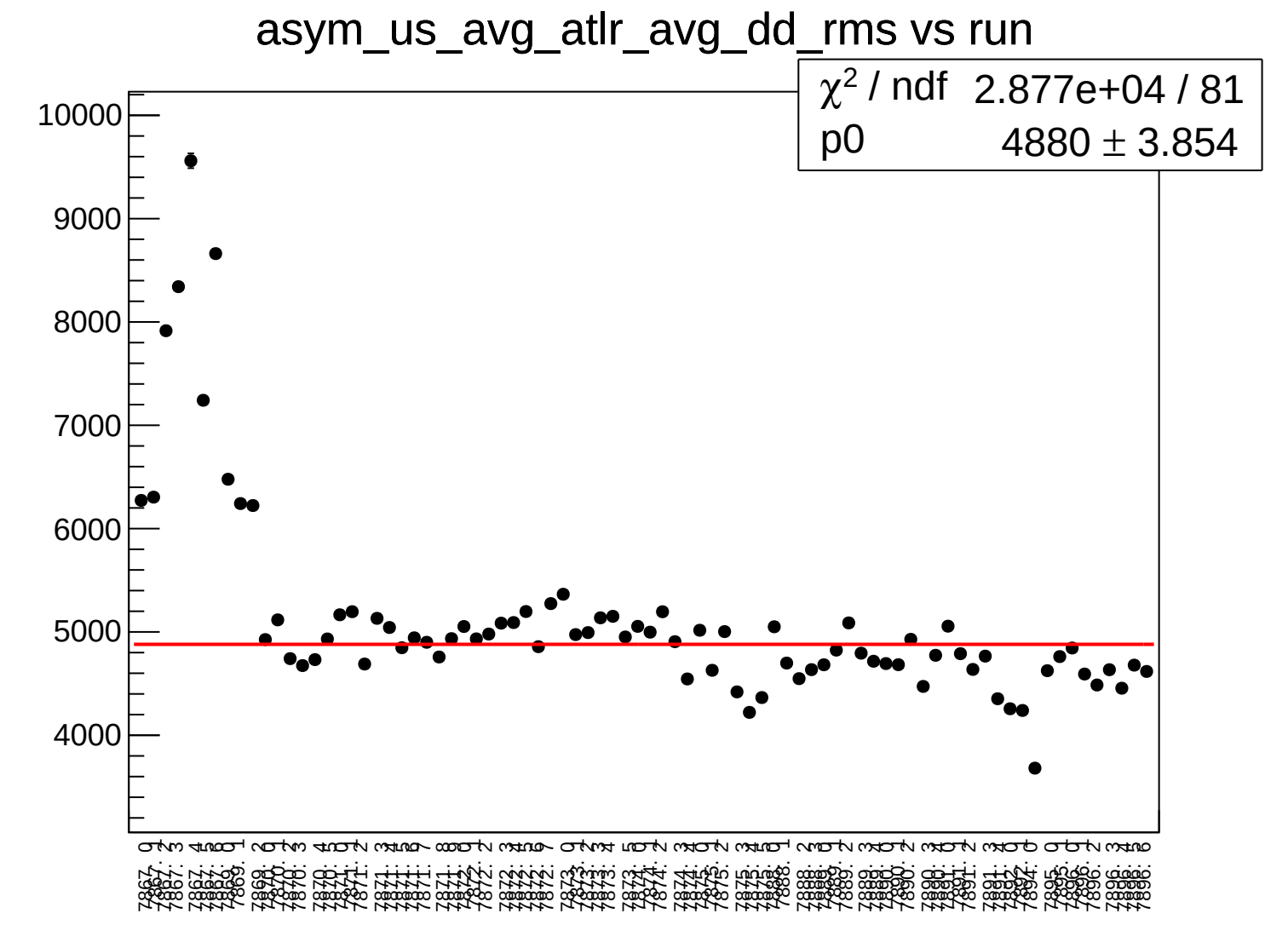

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.07 / 81
p0 −2473 ± 5248
pull
Entries 82
Mean −122.1
Std Dev 0

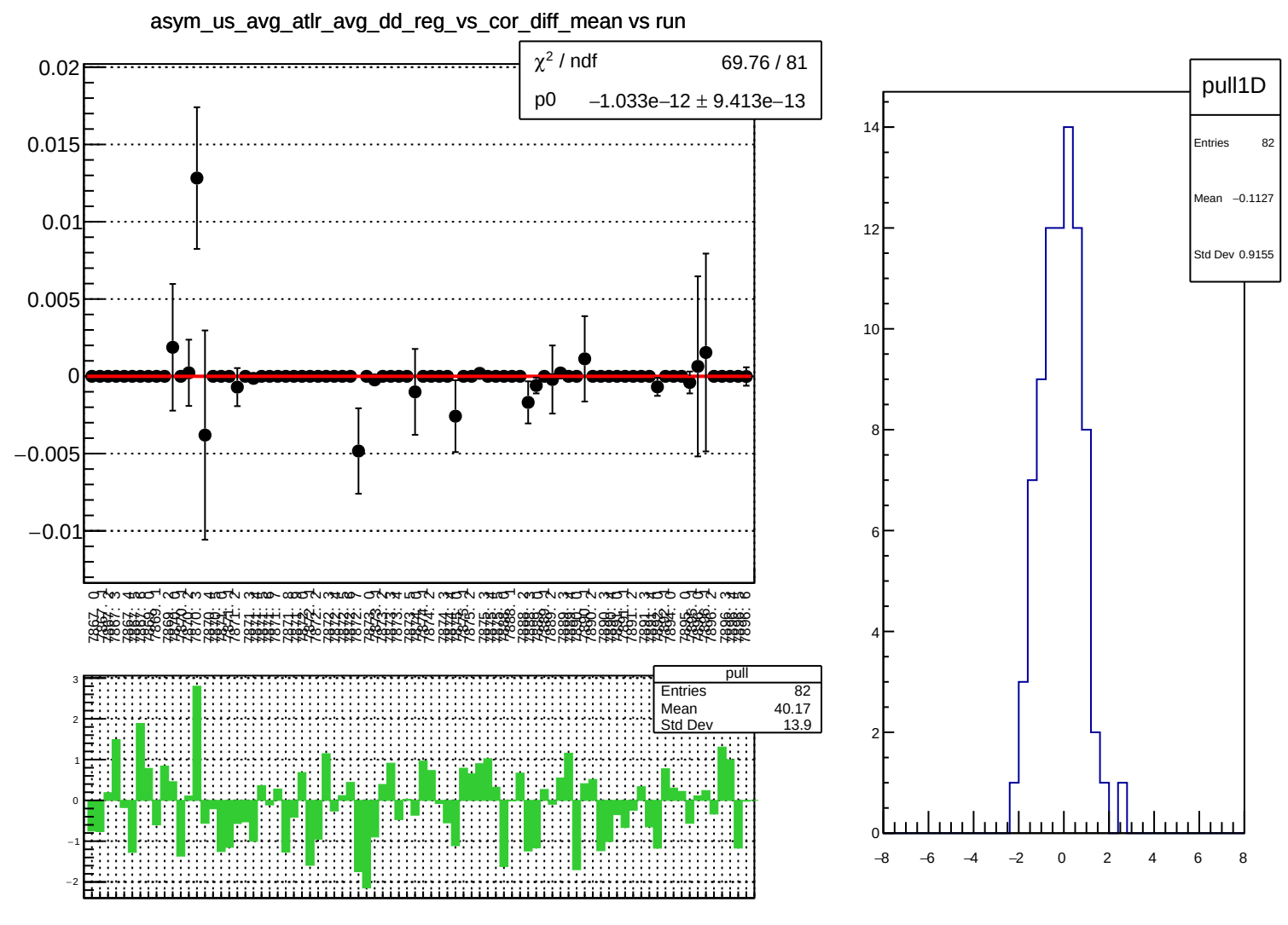

pull1D
Entries 82
Mean −0.01642
Std Dev 0.8975

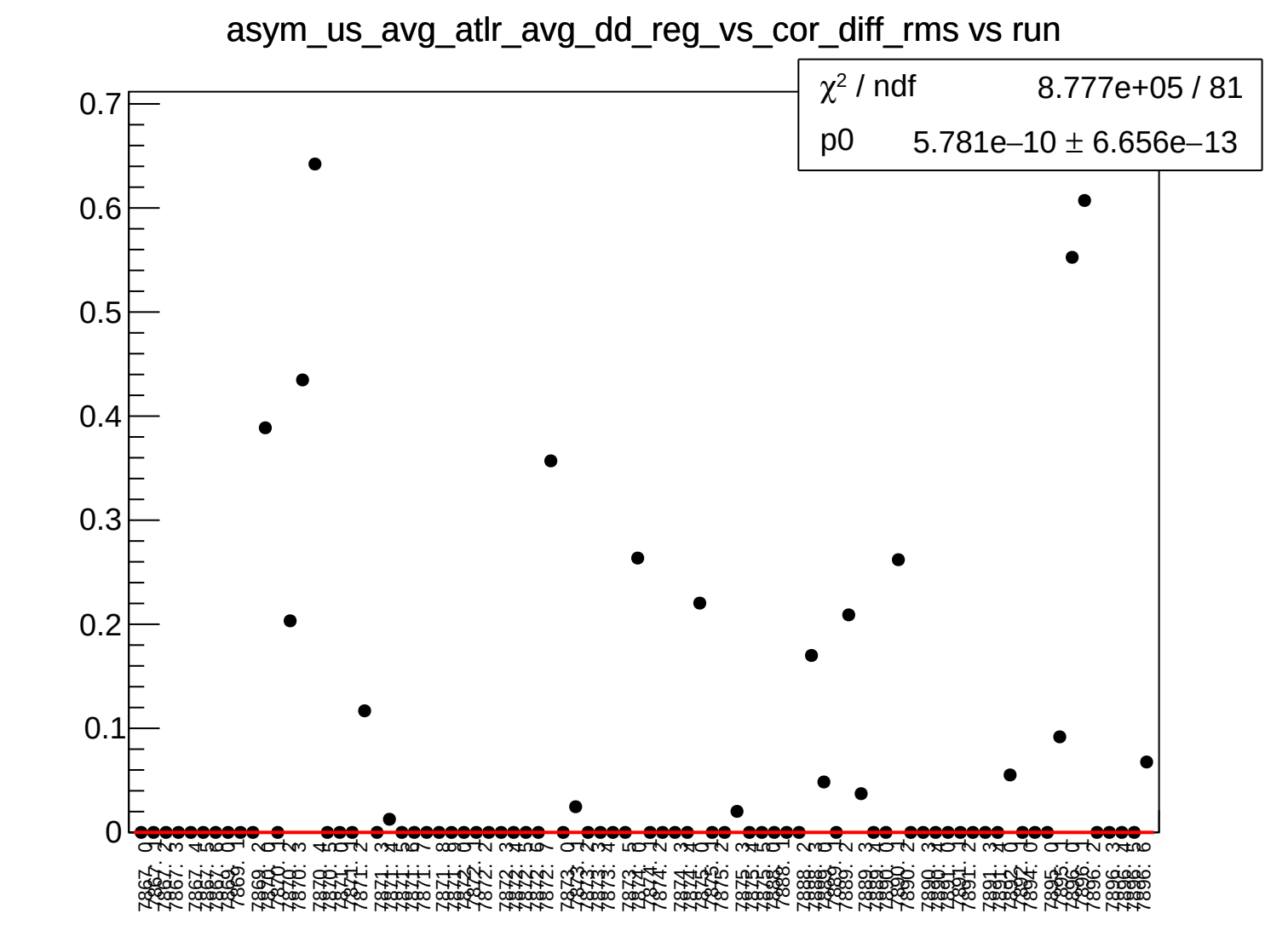

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.665e+04 / 81
p0 4702 ± 3.711
10000
9000
8000
7000
6000
5000
4000

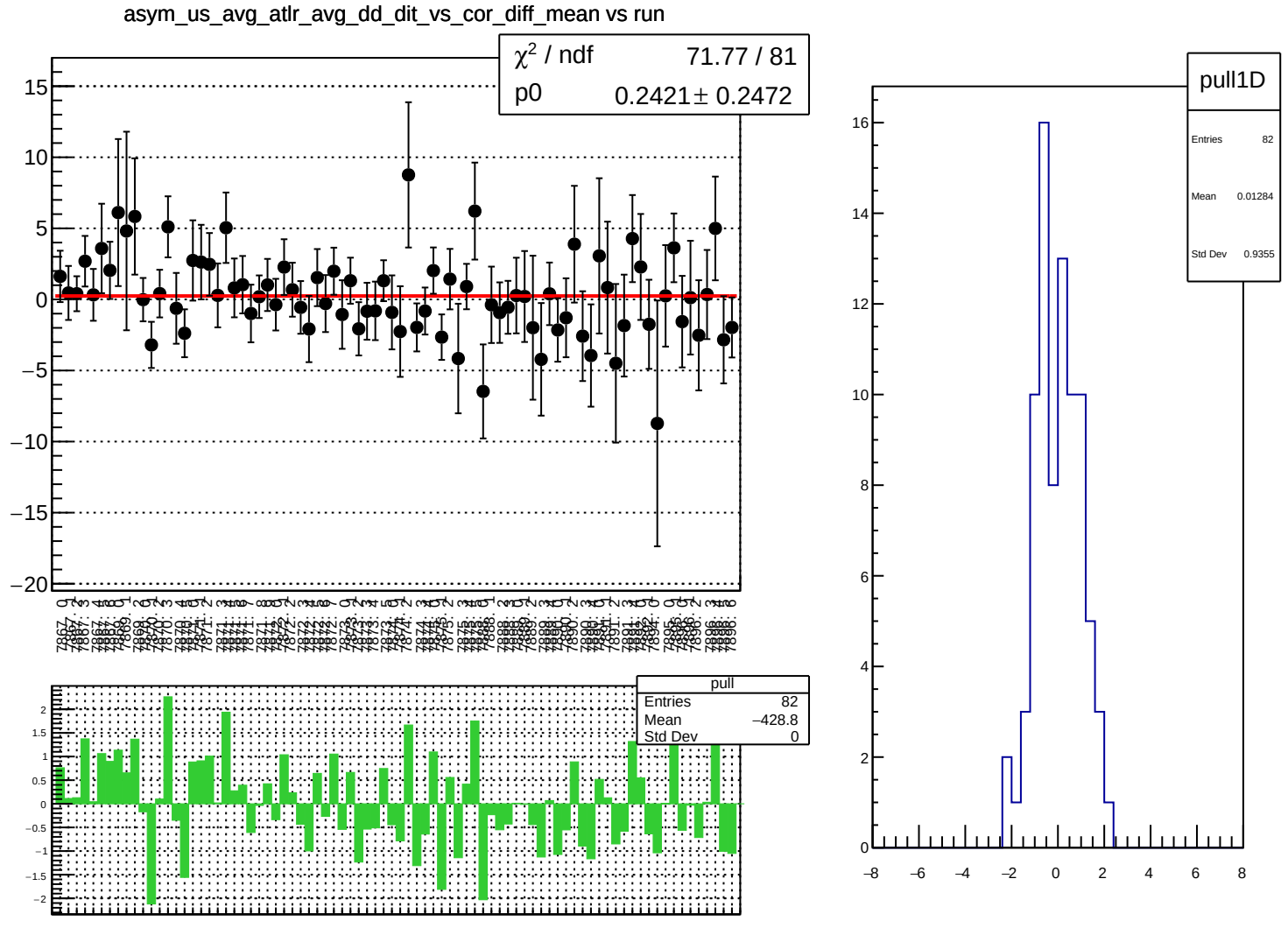

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 67.66 / 81
p0 3552 ± 5450
pull
Entries 82
Mean −141.6
Std Dev 0

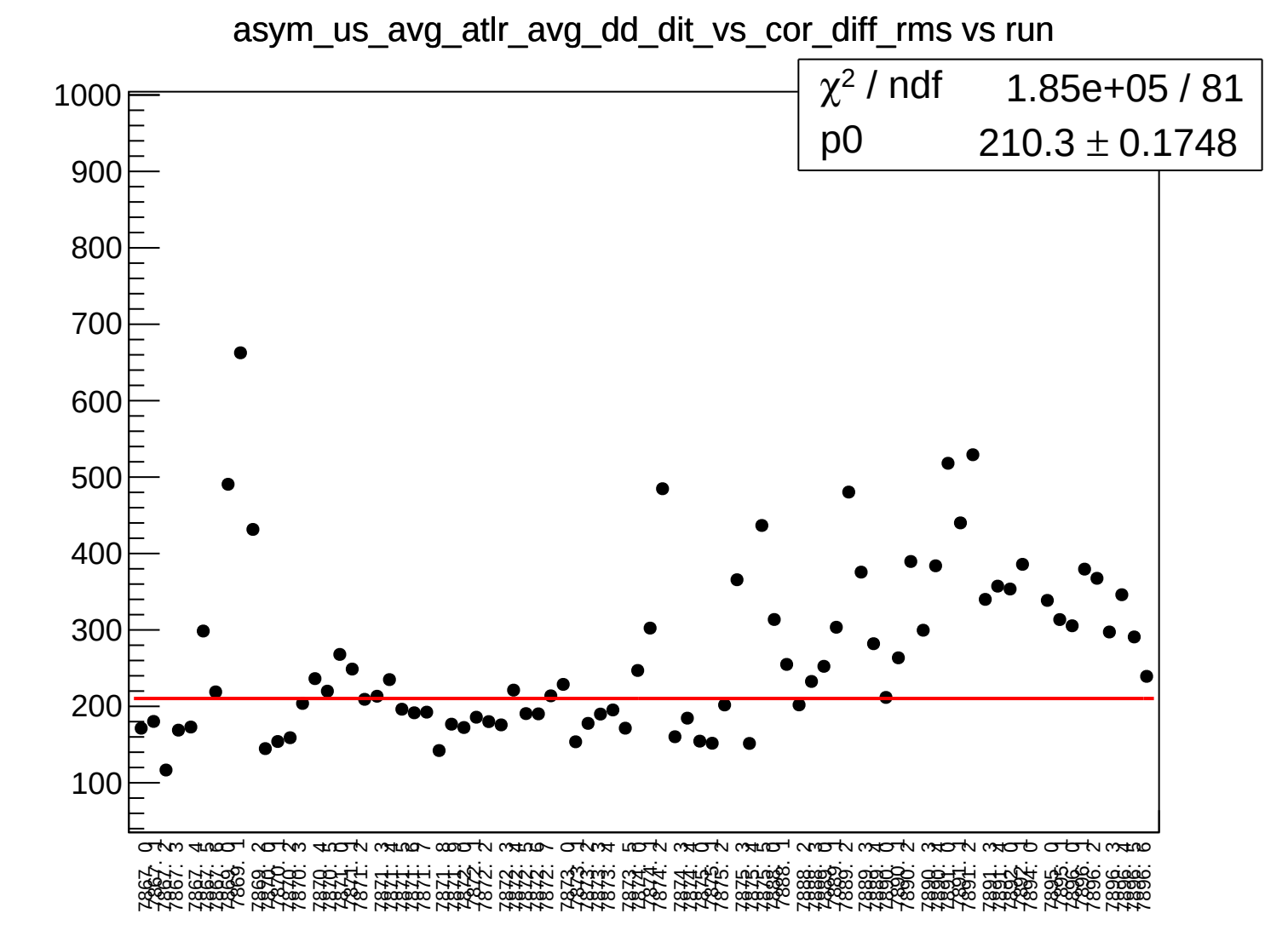

pull1D
Entries 82
Mean 0.0174
Std Dev 0.9082

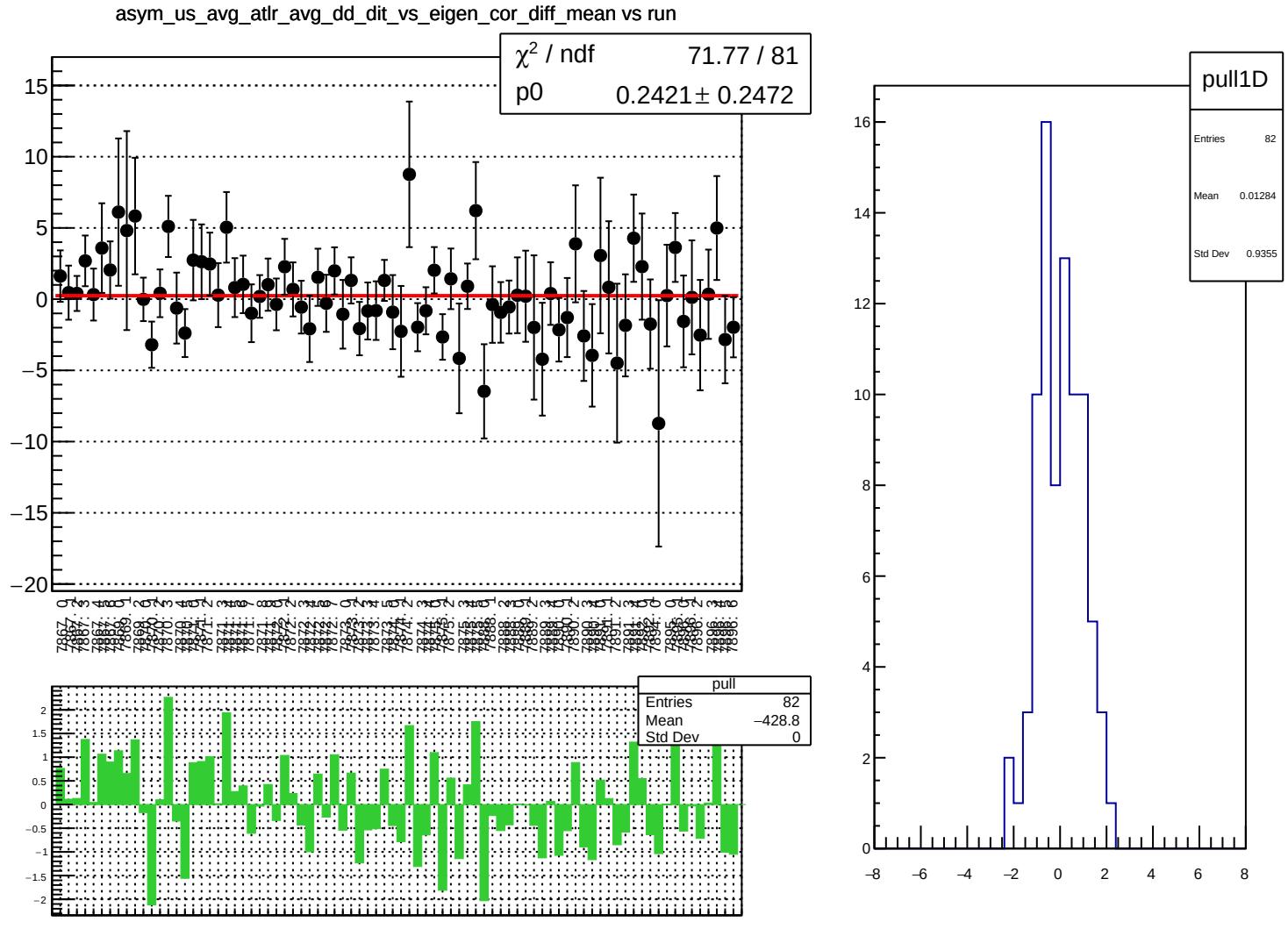

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2.877e+04 / 81
p0 4880 ± 3.854
10000
9000
8000
7000
6000
5000
4000

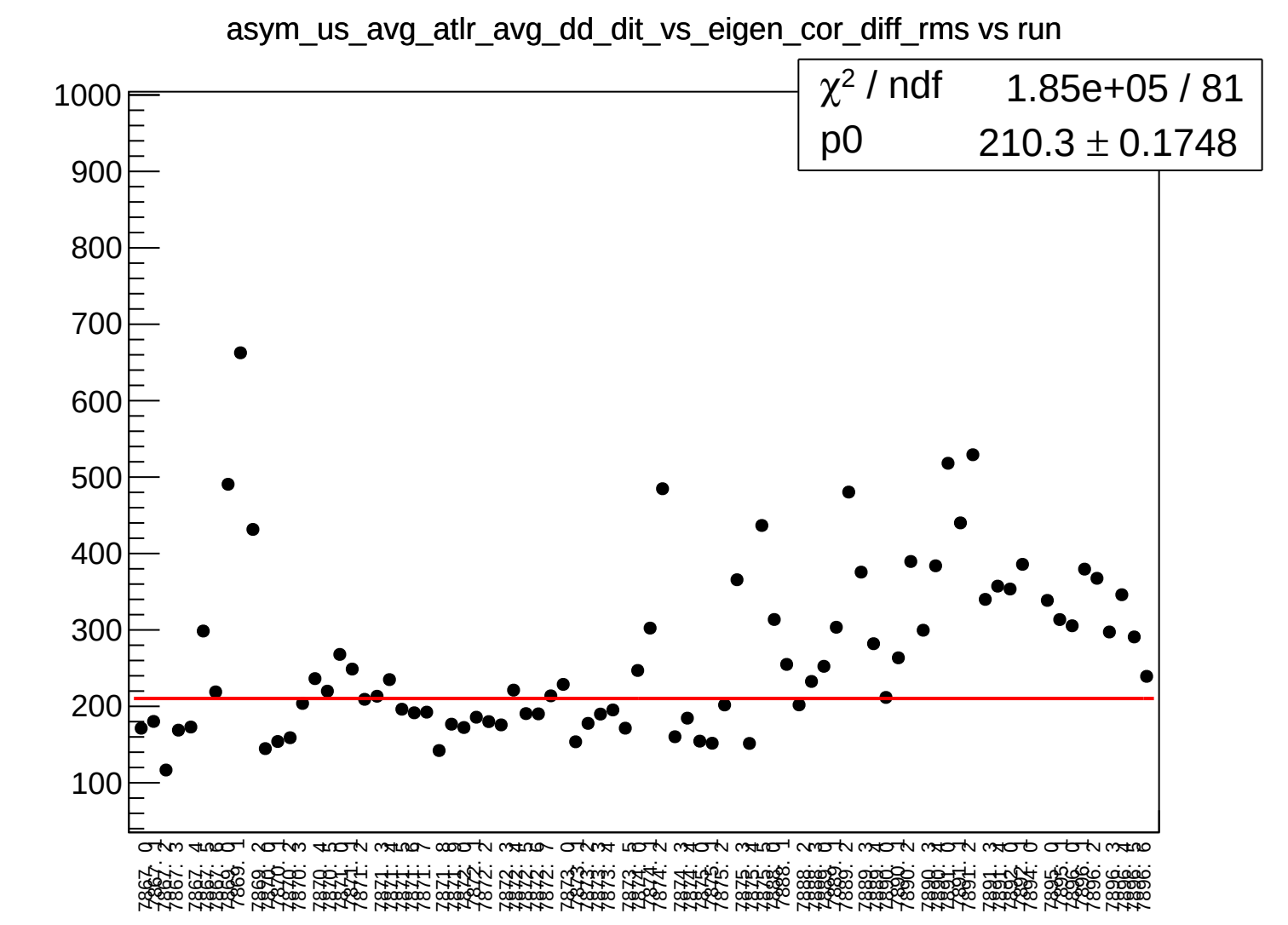

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.76 / 81
p0 −1.033e−12 ± 9.413e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 82
Mean 40.17
Std Dev 13.9
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1127
Std Dev 0.9155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

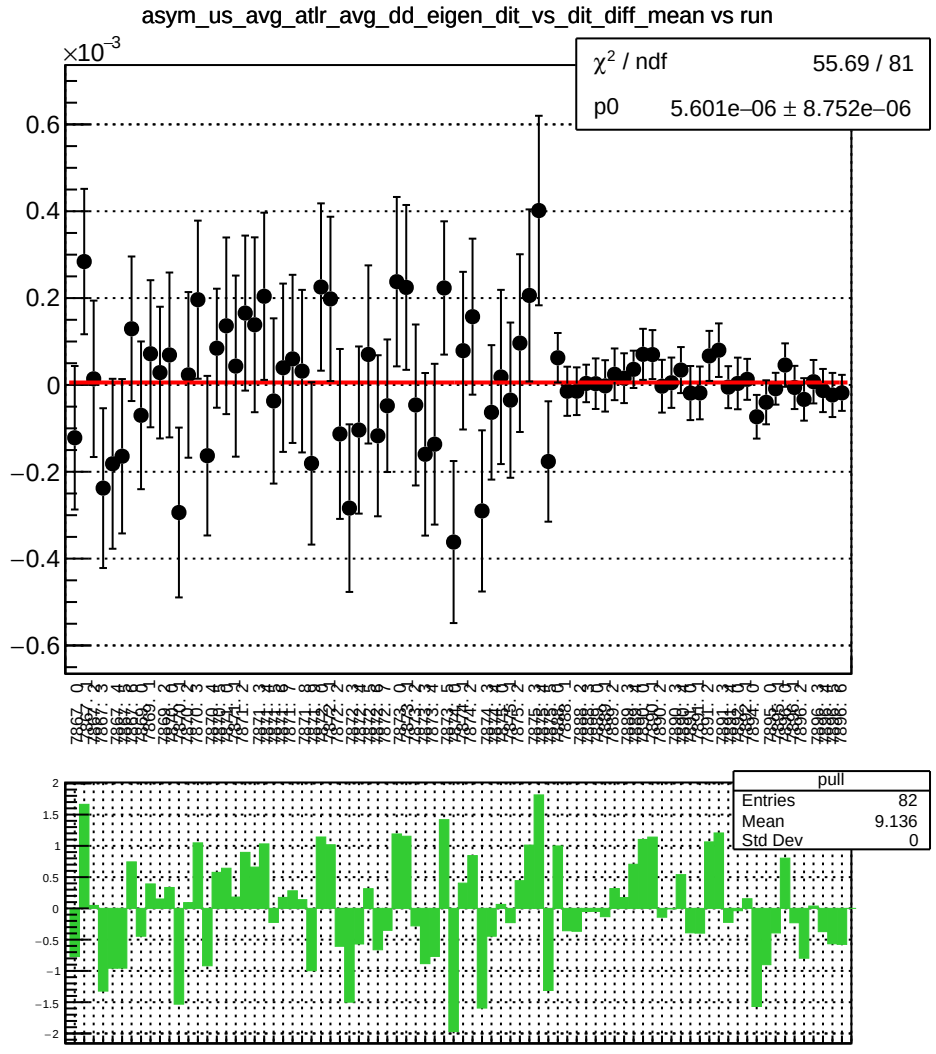

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.777e+05 / 81
p0 5.781e−10 ± 6.656e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

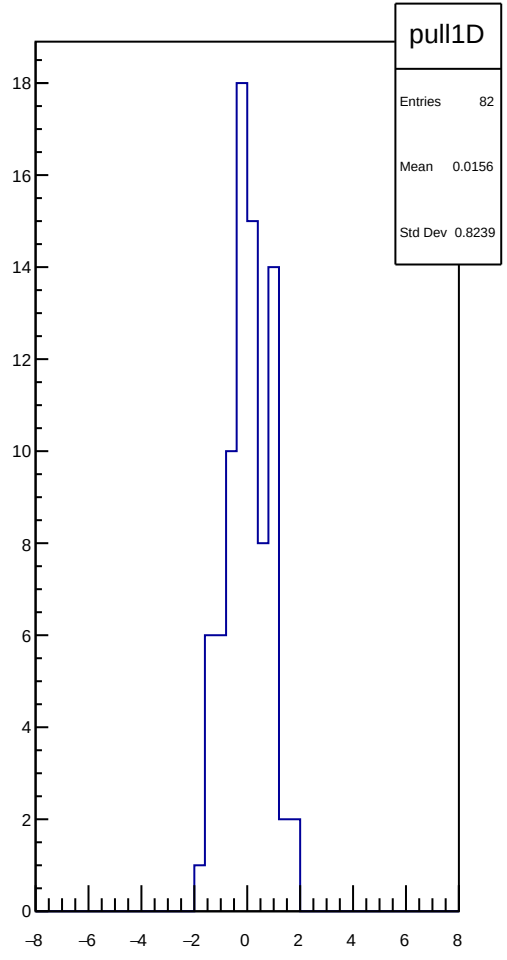

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.77 / 81
p0 0.2421± 0.2472
pull
Entries 82
Mean −428.8
Std Dev 0
pull1D
Entries 82
Mean 0.01284
Std Dev 0.9355

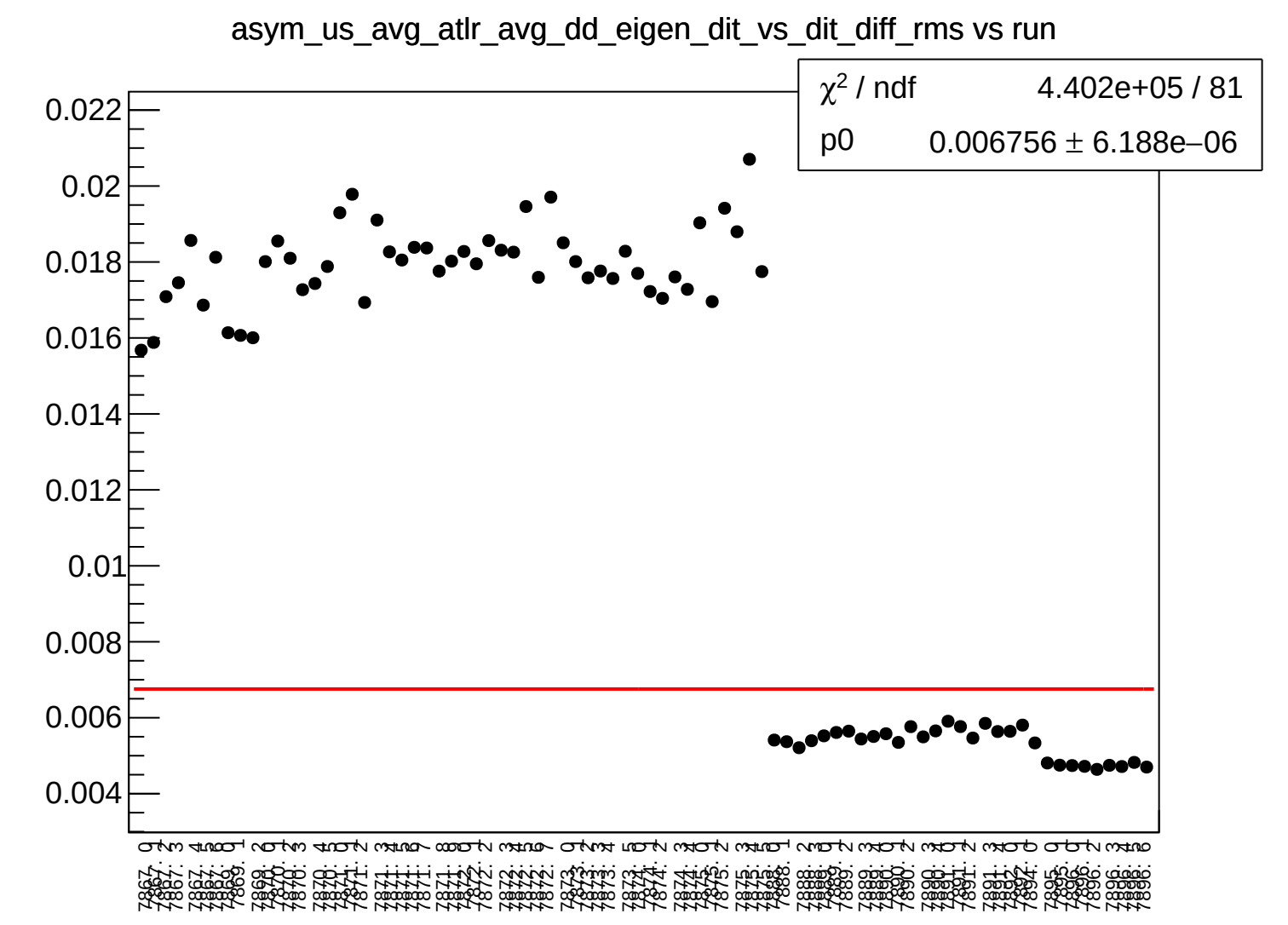

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.85e+05 / 81
p0 210.3 ± 0.1748
1000
900
800
700
600
500
400
300
200
100

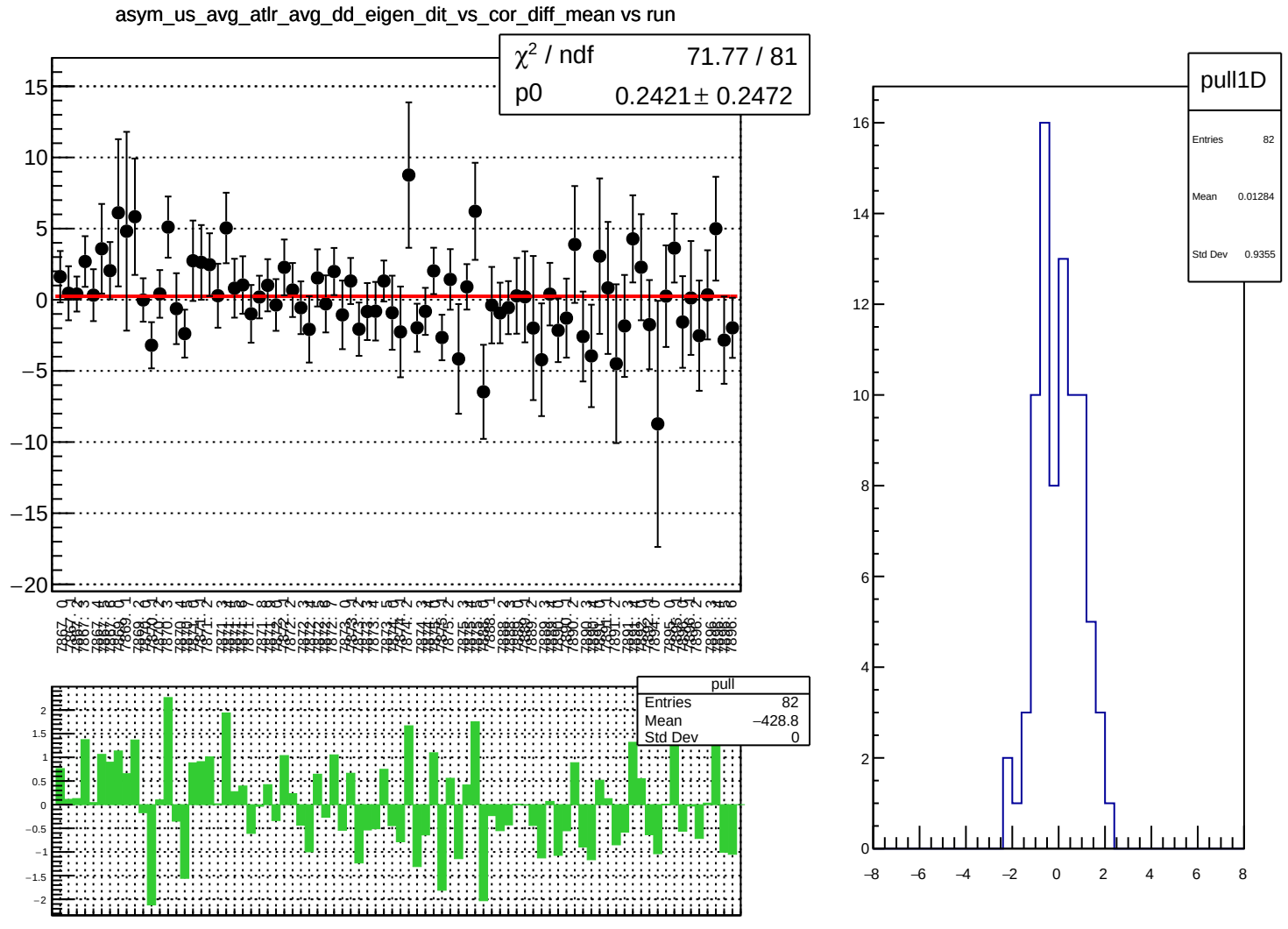

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.77 / 81
p0 0.2421± 0.2472
pull
Entries 82
Mean −428.8
Std Dev 0
pull1D
Entries 82
Mean 0.01284
Std Dev 0.9355

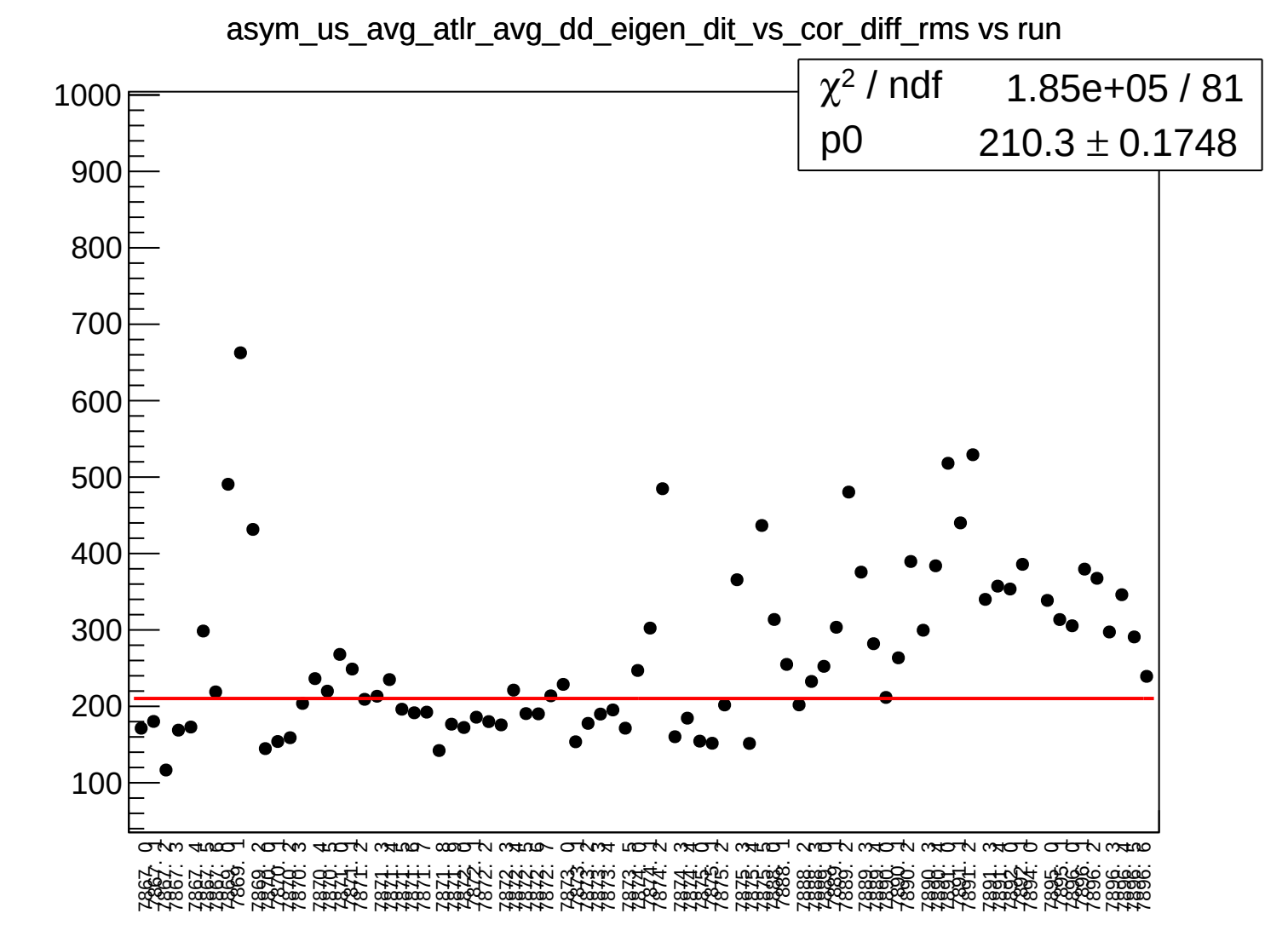

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.85e+05 / 81
p0 210.3 ± 0.1748
1000
900
800
700
600
500
400
300
200
100

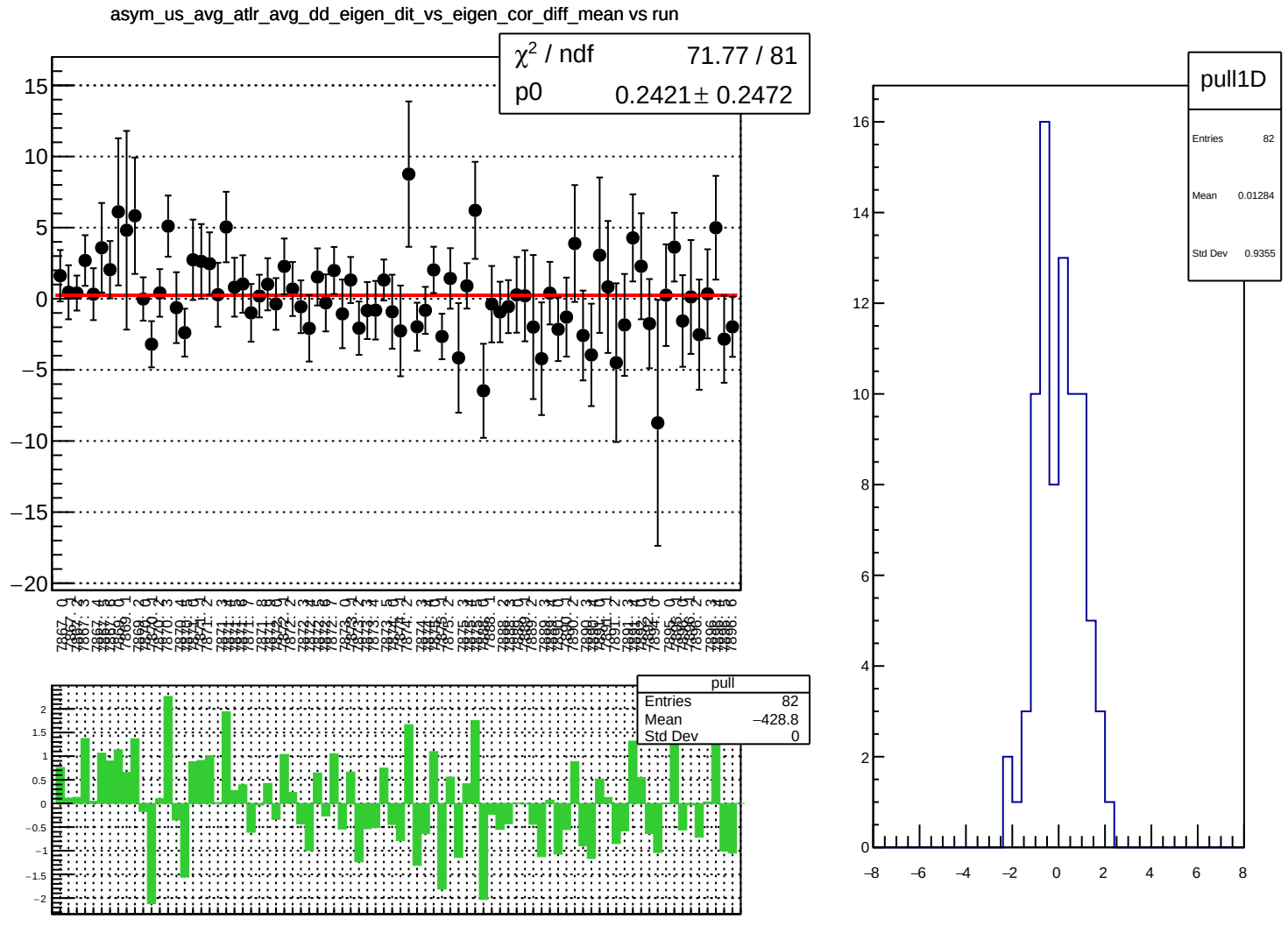

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.69 / 81
p0 5.601e−06 ± 8.752e−06
pull
Entries 82
Mean 9.136
Std Dev 0

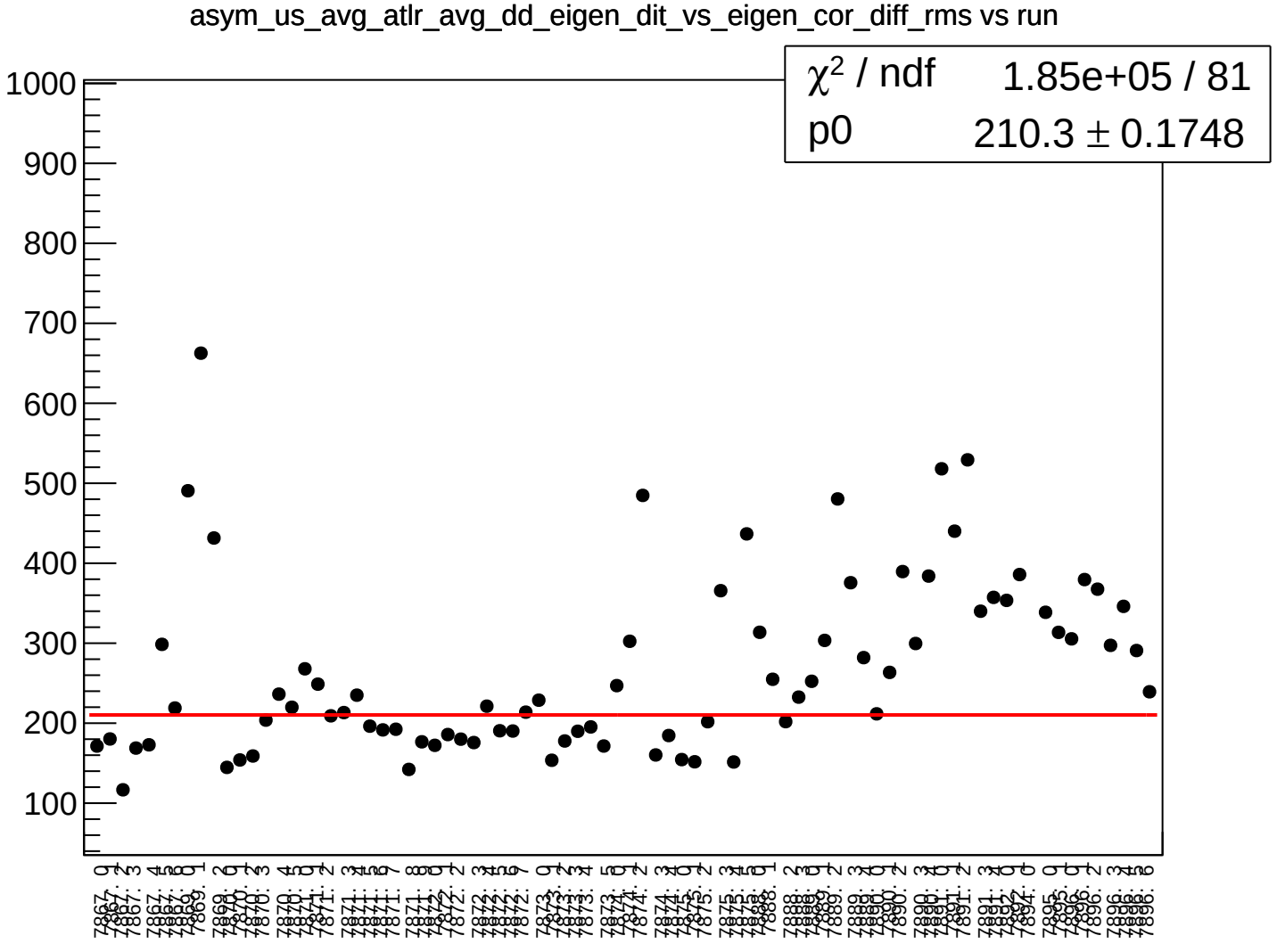

pull1D
Entries 82
Mean 0.0156
Std Dev 0.8239

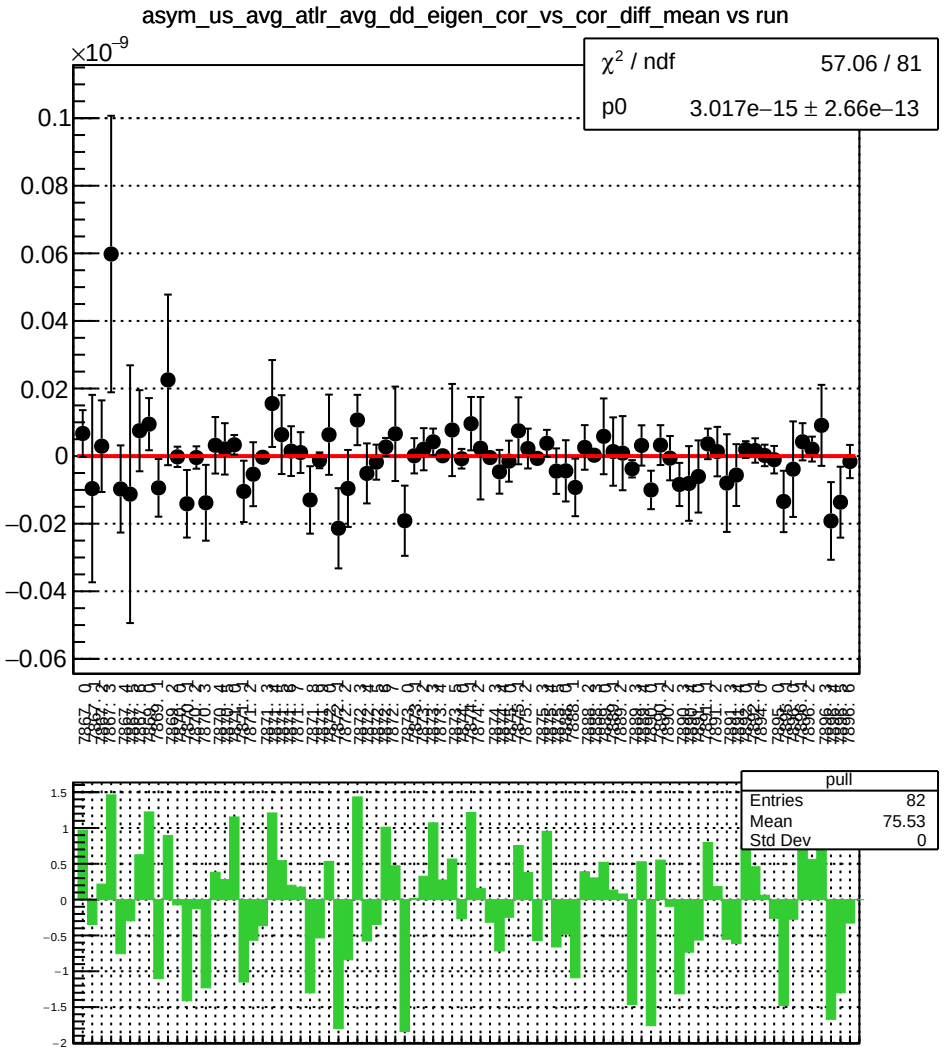

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.402e+05 / 81
p0 0.006756 ± 6.188e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

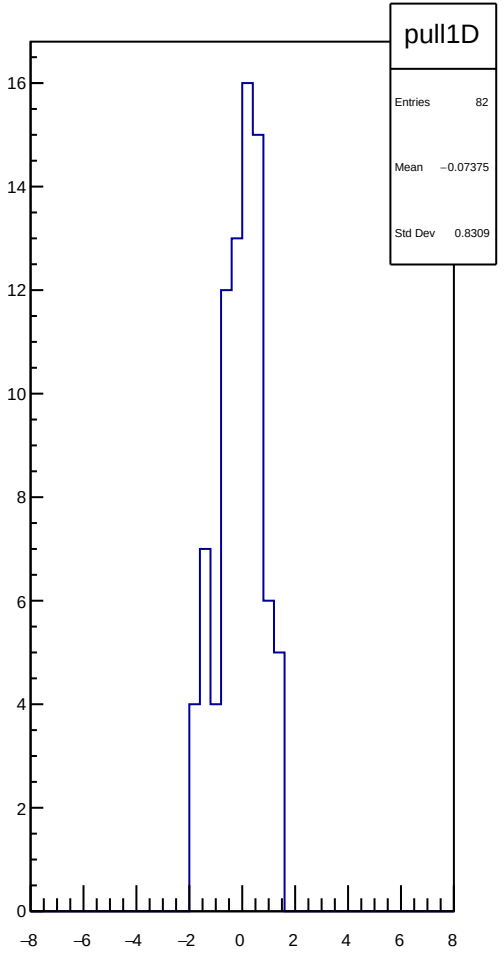

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.77 / 81
p0 0.2421± 0.2472
pull
Entries 82
Mean −428.8
Std Dev 0
pull1D
Entries 82
Mean 0.01284
Std Dev 0.9355

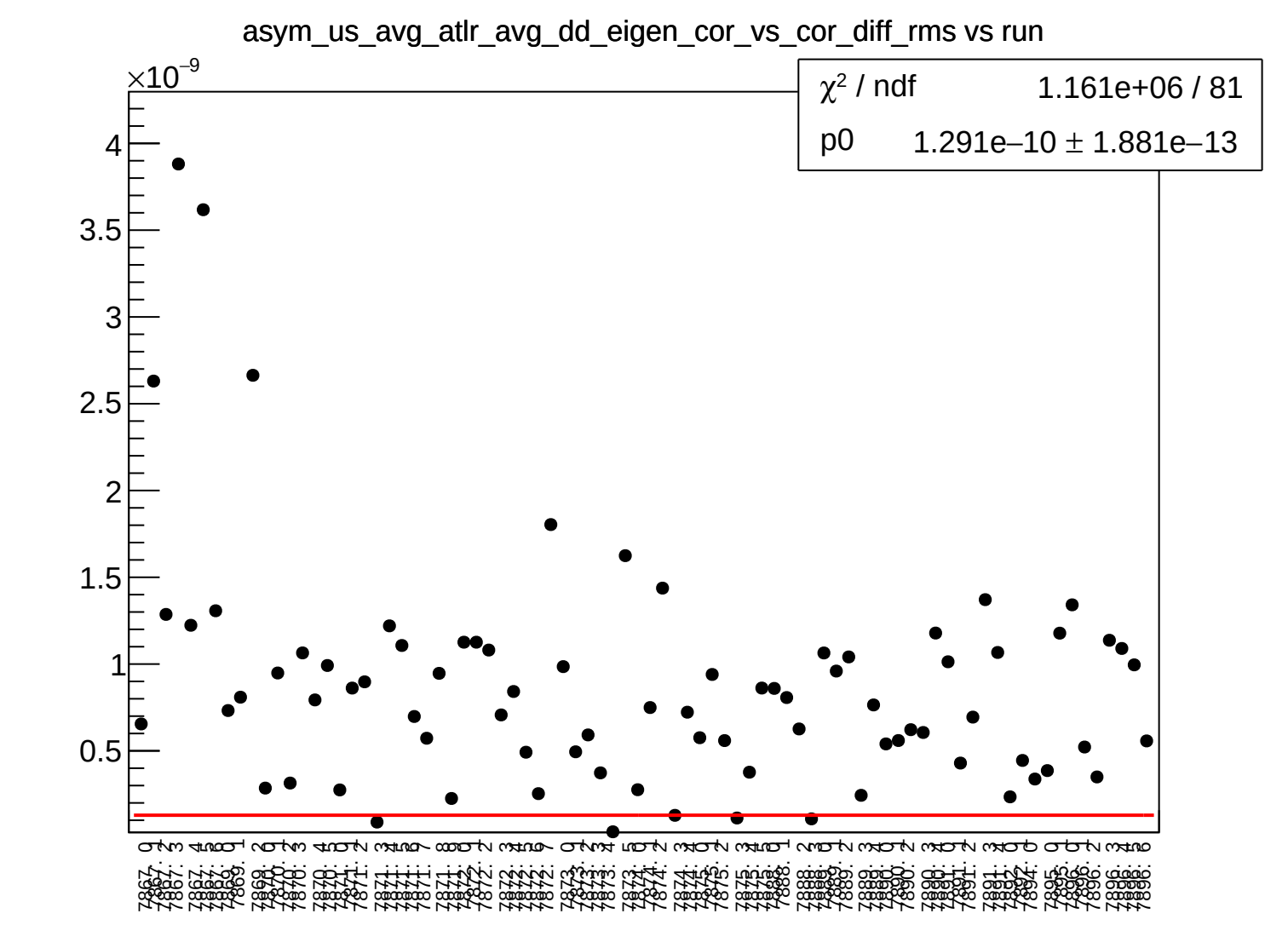

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.85e+05 / 81
p0 210.3 ± 0.1748
1000
900
800
700
600
500
400
300
200
100

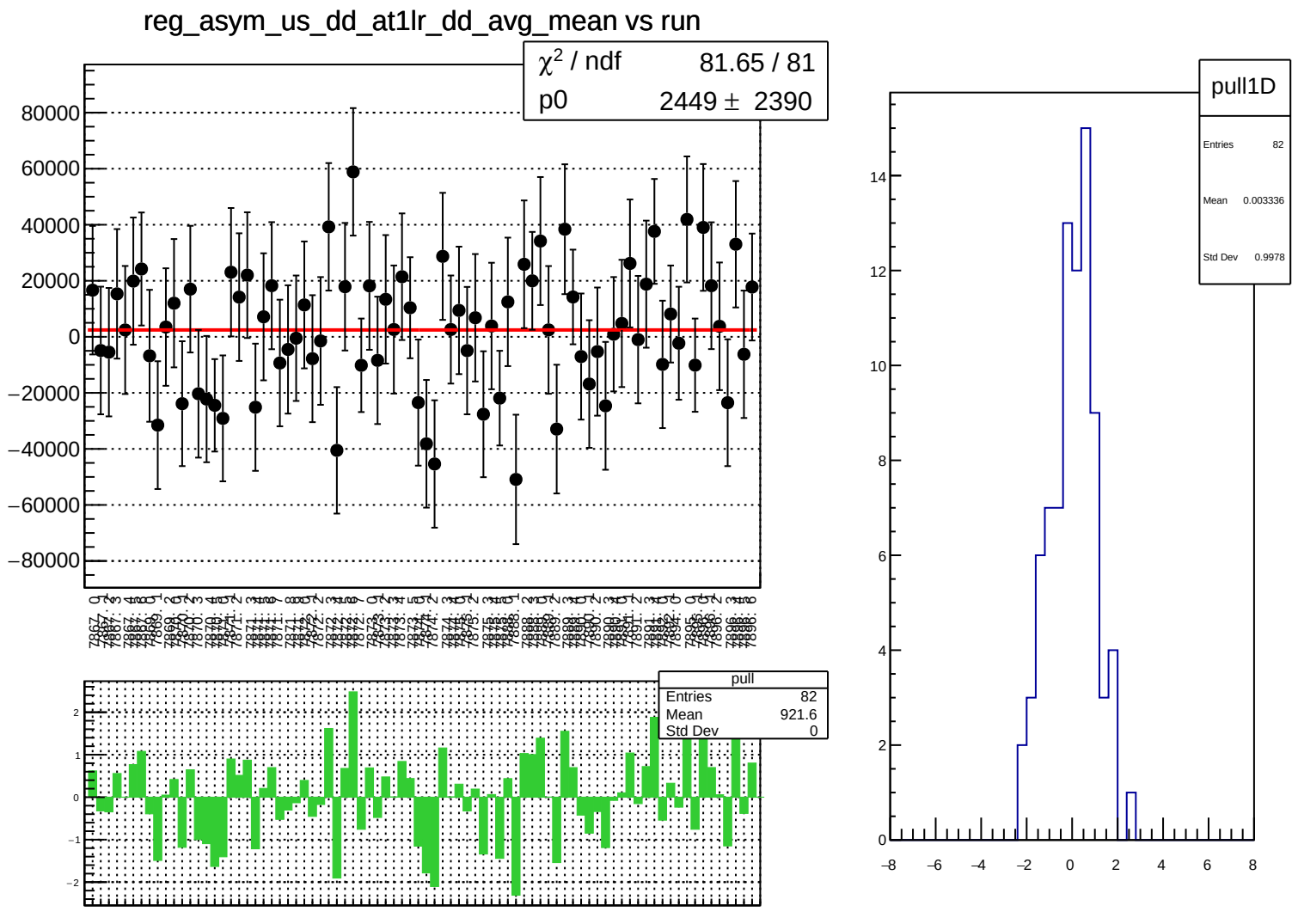

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.77 / 81
p0 0.2421± 0.2472
pull
Entries 82
Mean −428.8
Std Dev 0
pull1D
Entries 82
Mean 0.01284
Std Dev 0.9355

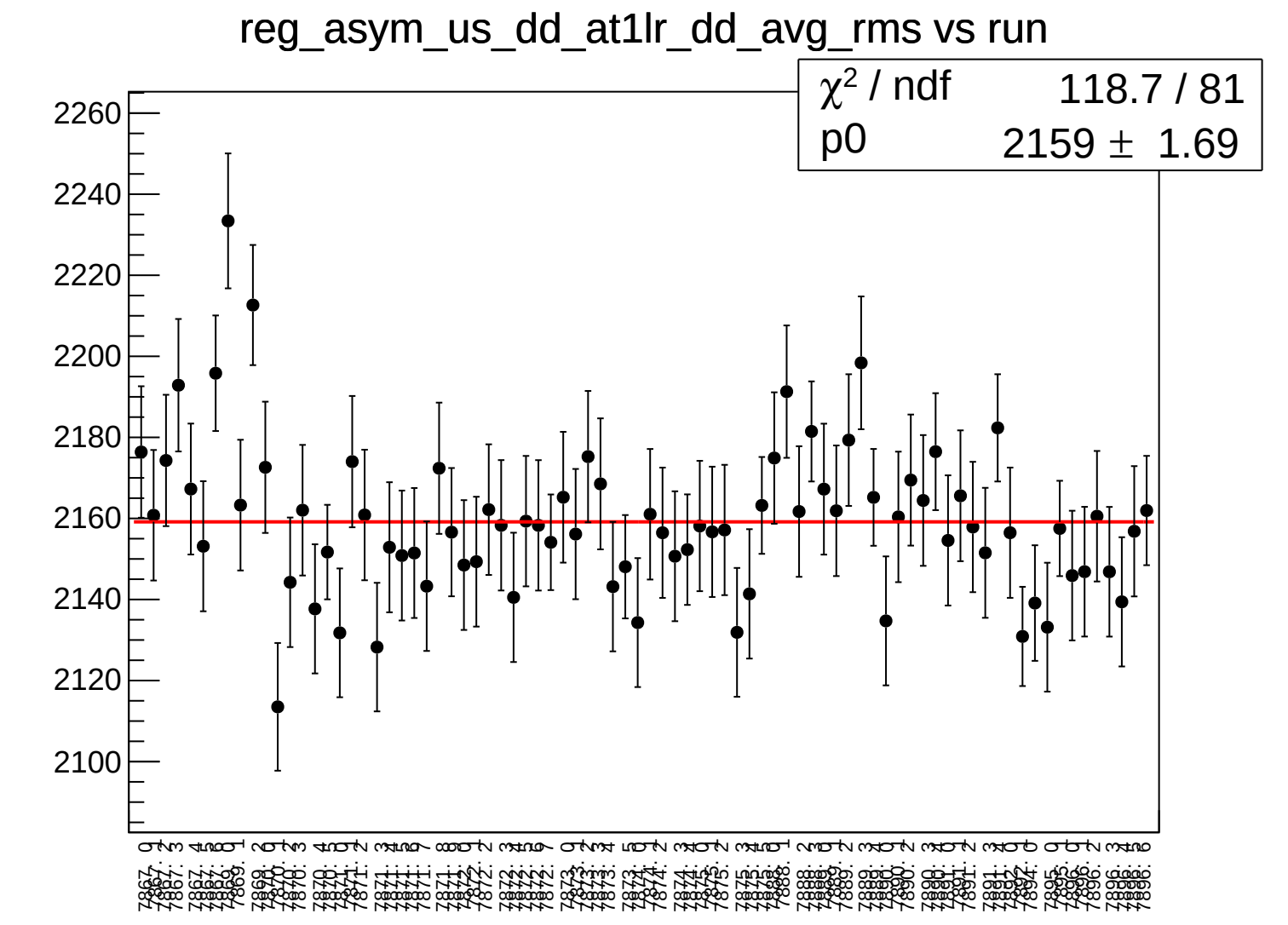

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.85e+05 / 81
p0 210.3 ± 0.1748
1000
900
800
700
600
500
400
300
200
100

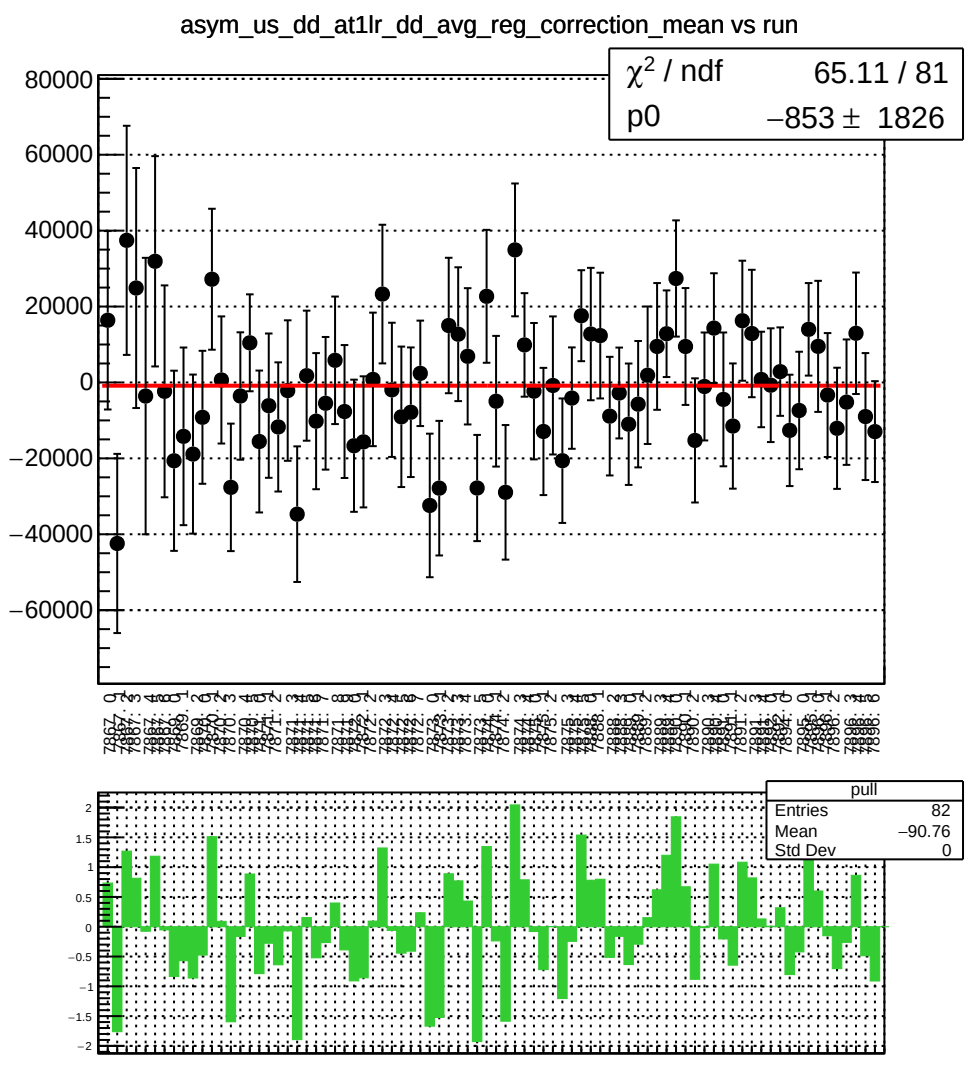

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 57.06 / 81
p0 3.017e−15 ± 2.66e−13
pull
Entries 82
Mean 75.53
Std Dev 0

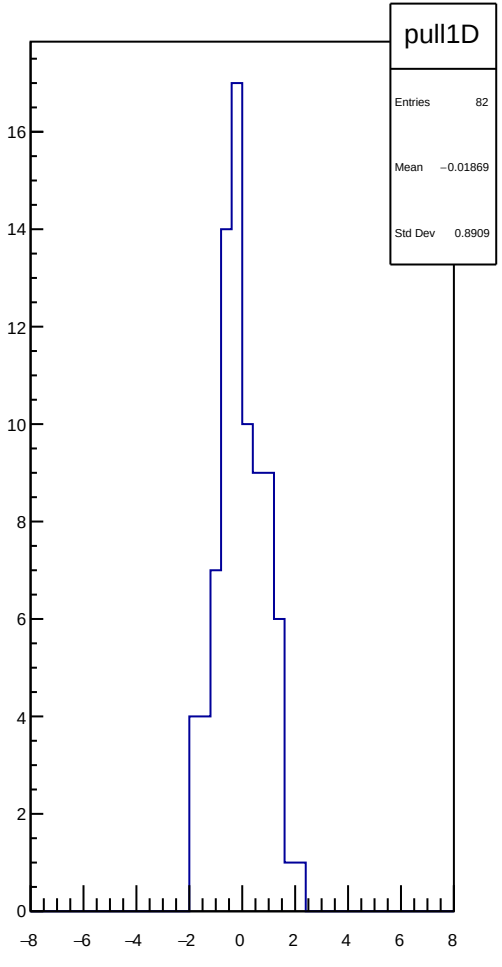

pull1D
Entries 82
Mean −0.07375
Std Dev 0.8309

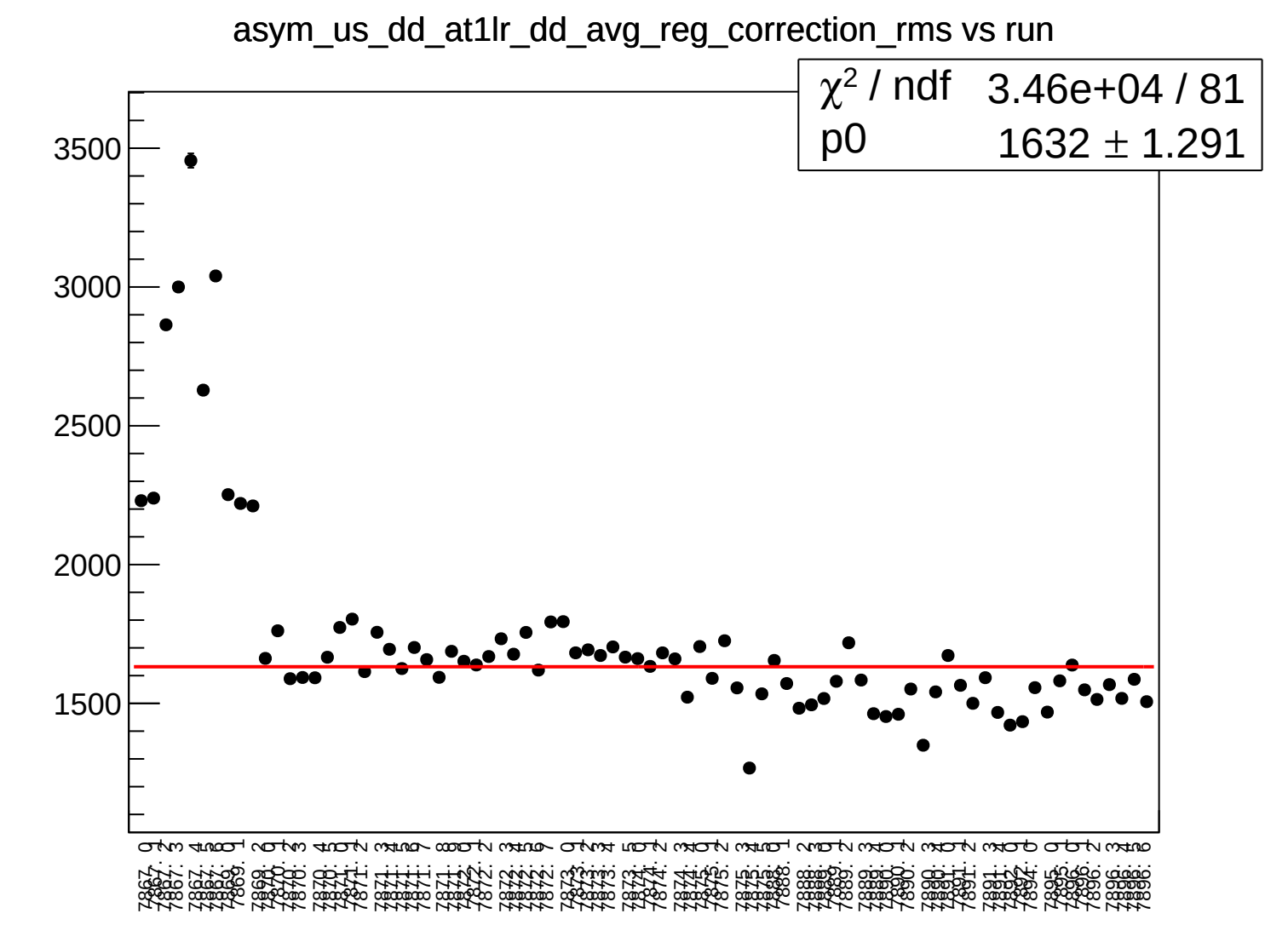

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.161e+06 / 81
p0 1.291e−10 ± 1.881e−13
4
3.5
3
2.5
2
1.5
1
0.5

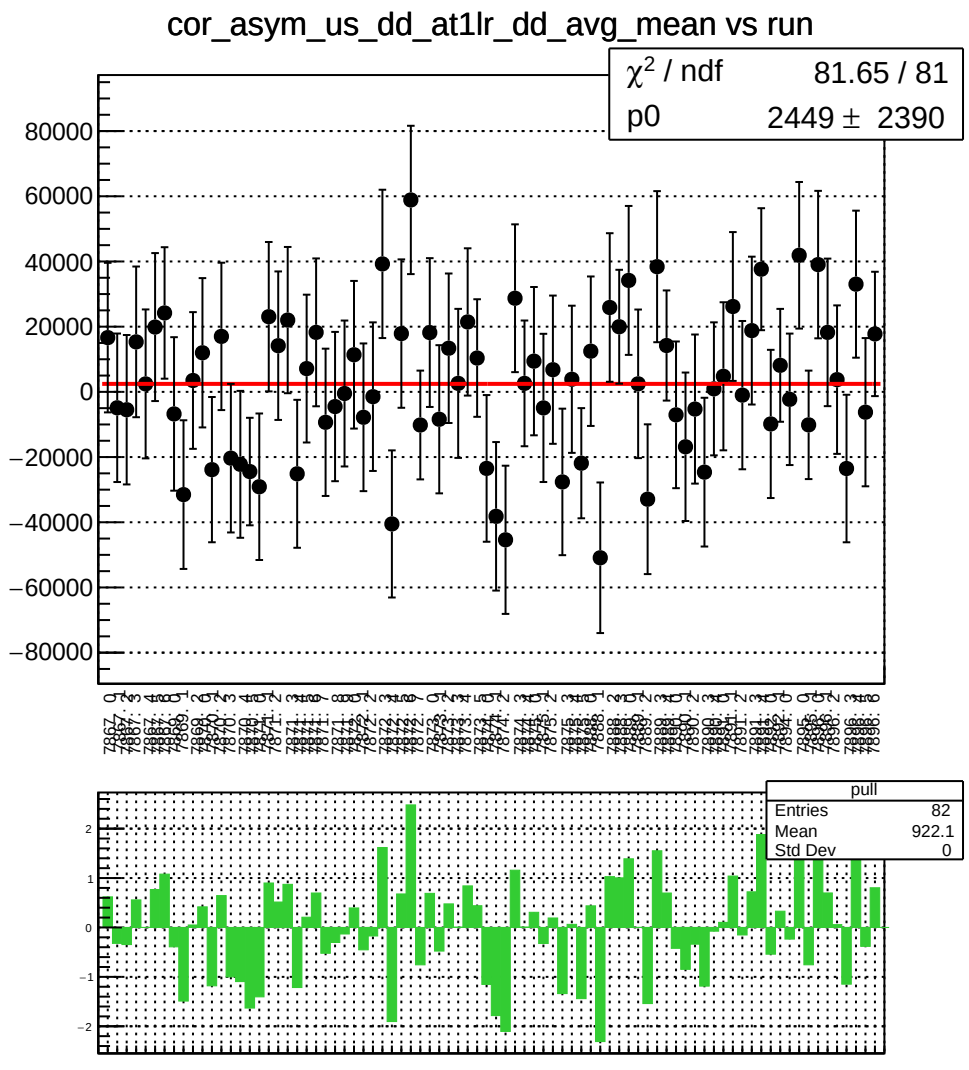

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.65 / 81
p0 2449 ± 2390
pull
Entries 82
Mean 921.6
Std Dev 0
pull1D
Entries 82
Mean 0.003336
Std Dev 0.9978

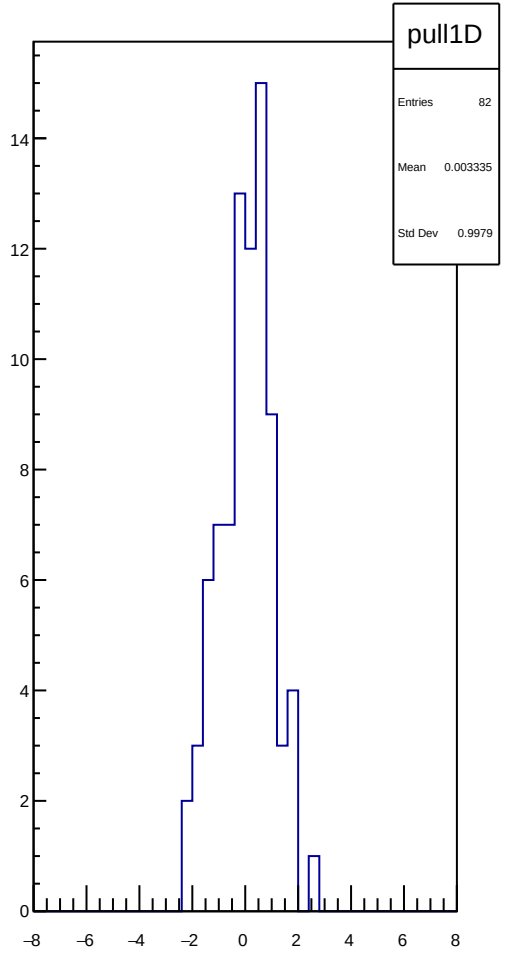

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 118.7 / 81
p0 2159 ± 1.69
2260
2240
2220
2200
2180
2160
2140
2120
2100

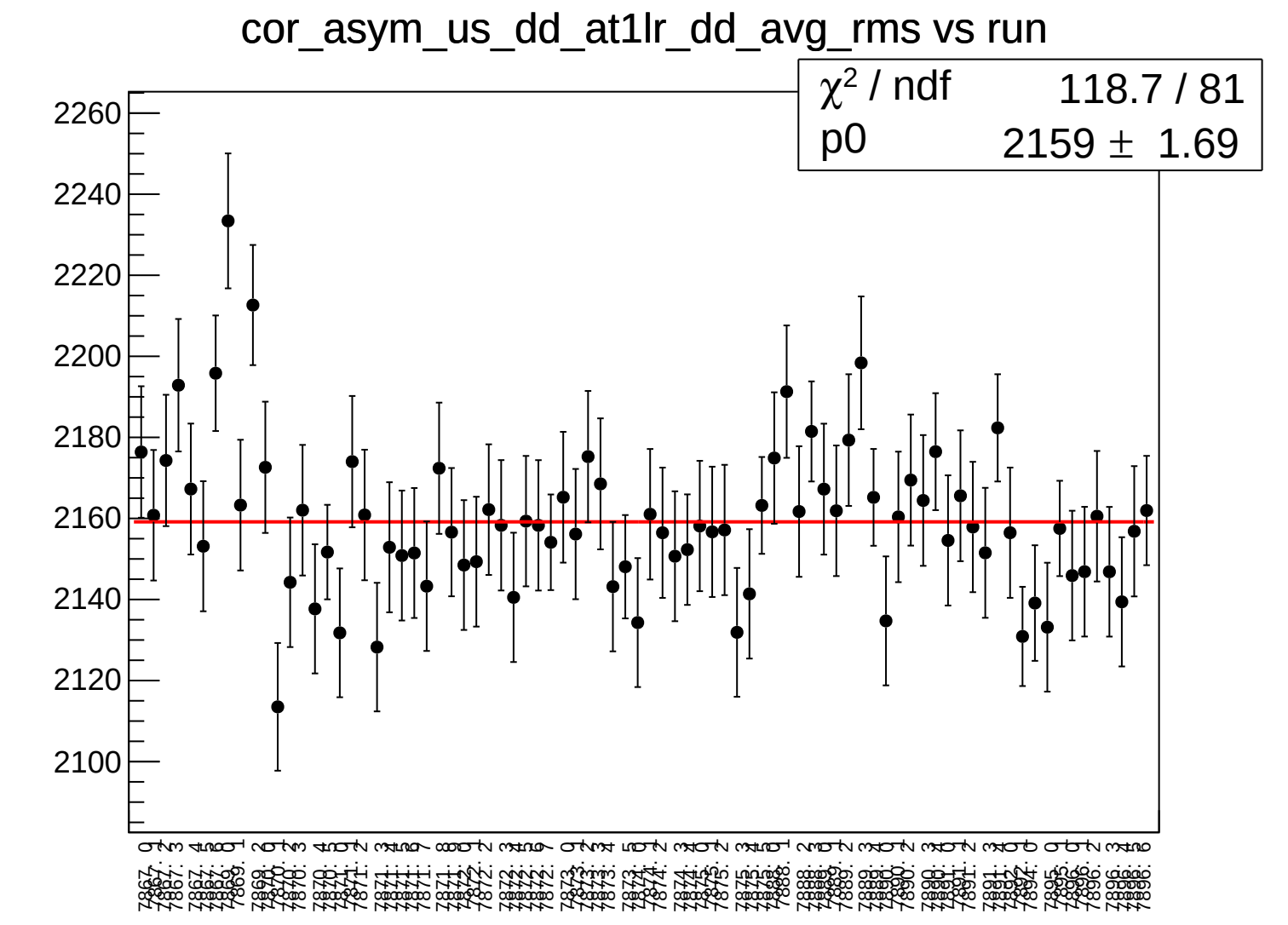

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 65.11 / 81
p0 −853 ± 1826
pull
Entries 82
Mean −90.76
Std Dev 0

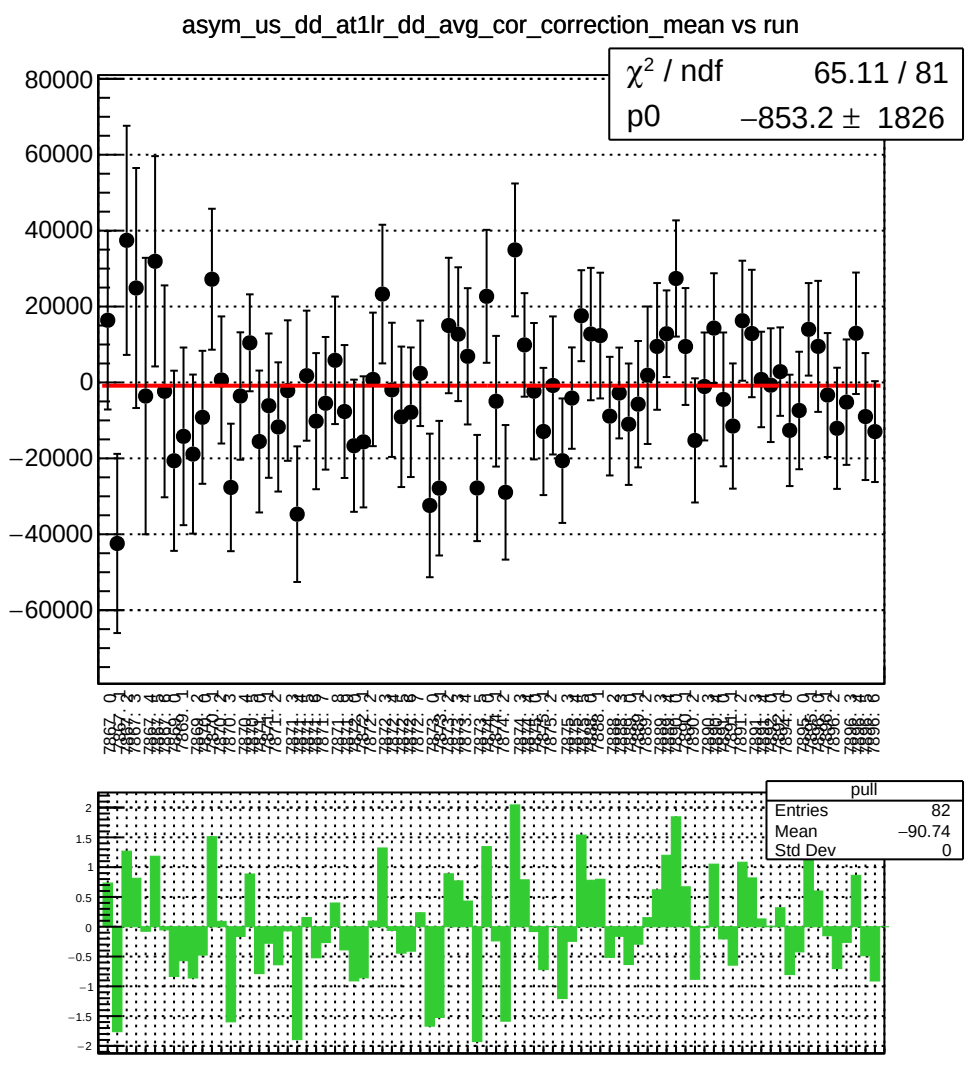

pull1D
Entries 82
Mean −0.01869
Std Dev 0.8909

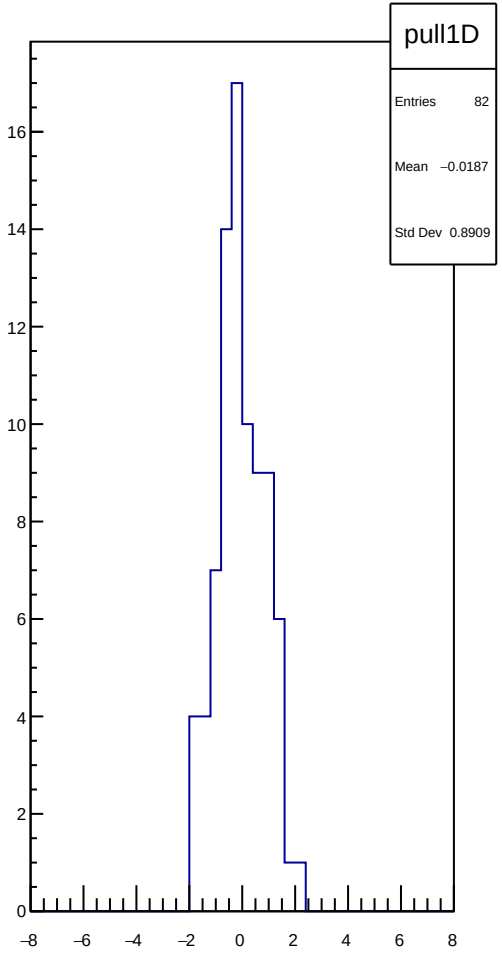

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.46e+04 / 81
p0 1632 ± 1.291
3500
3000
2500
2000
1500

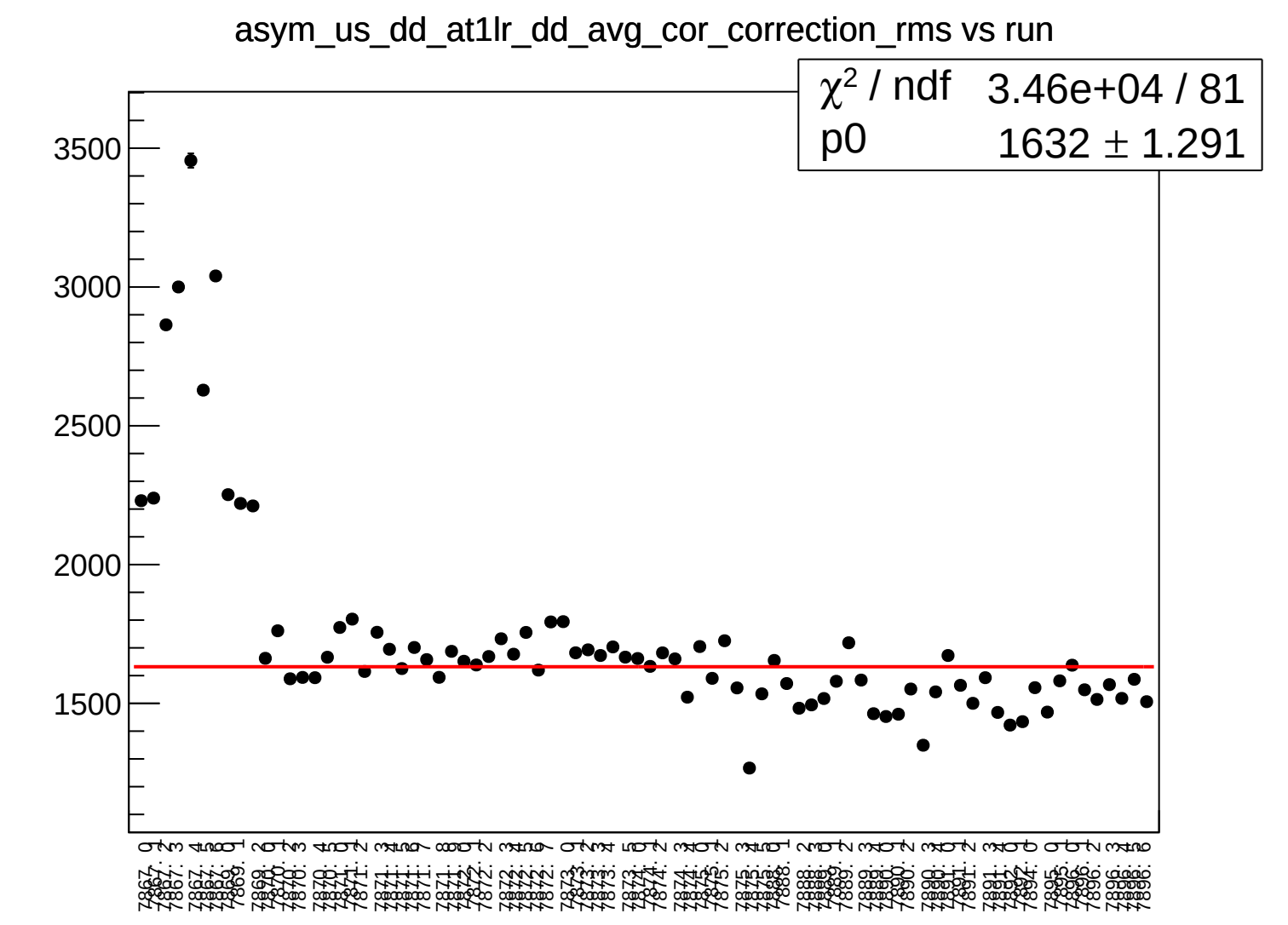

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.65 / 81
p0 2449 ± 2390
pull
Entries 82
Mean 922.1
Std Dev 0

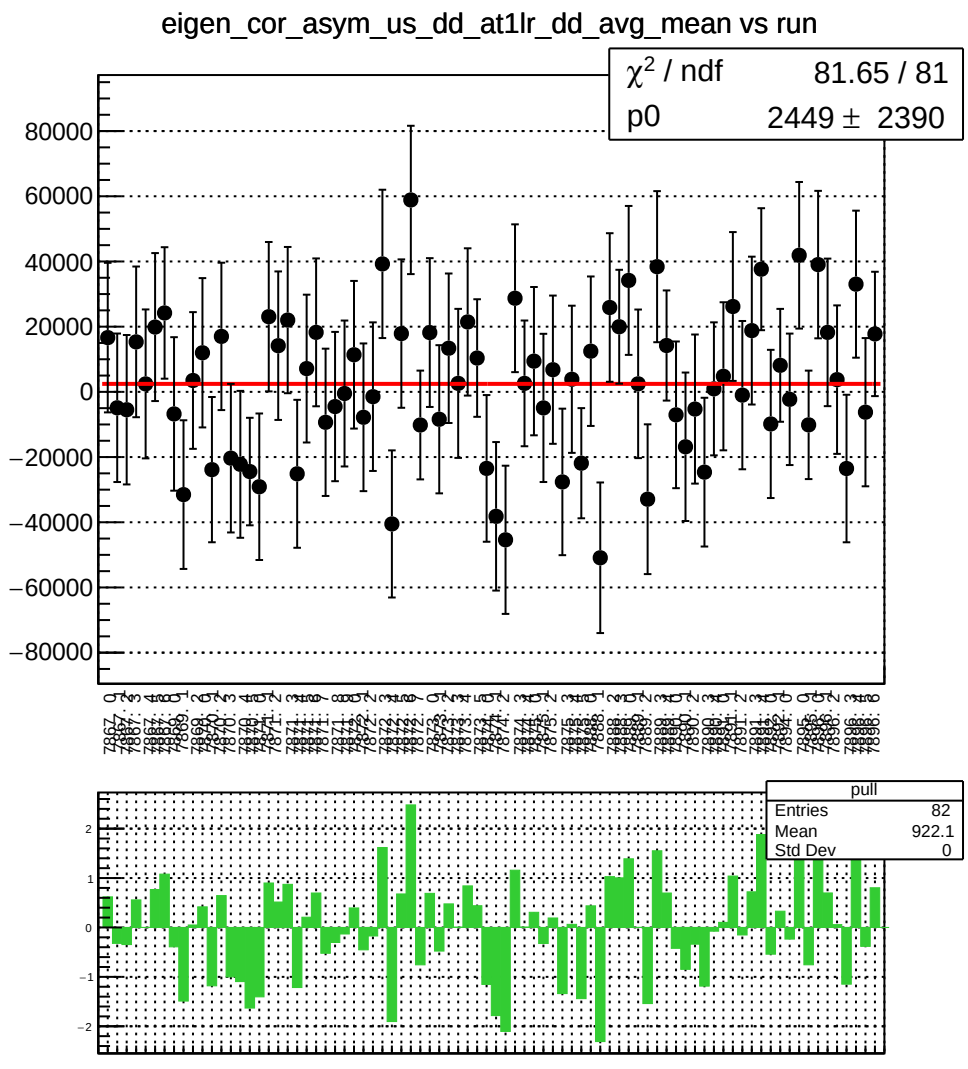

pull1D
Entries 82
Mean 0.003335
Std Dev 0.9979

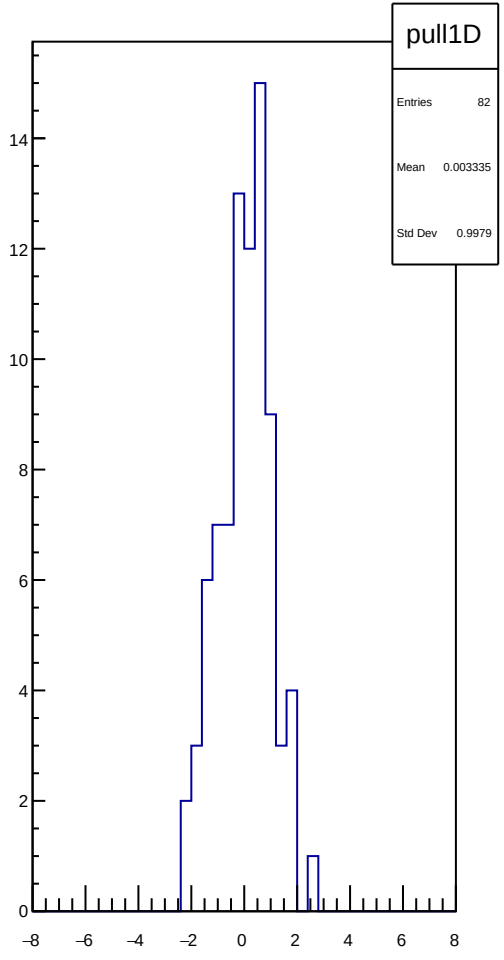

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 118.7 / 81
p0 2159 ± 1.69
2260
2240
2220
2200
2180
2160
2140
2120
2100

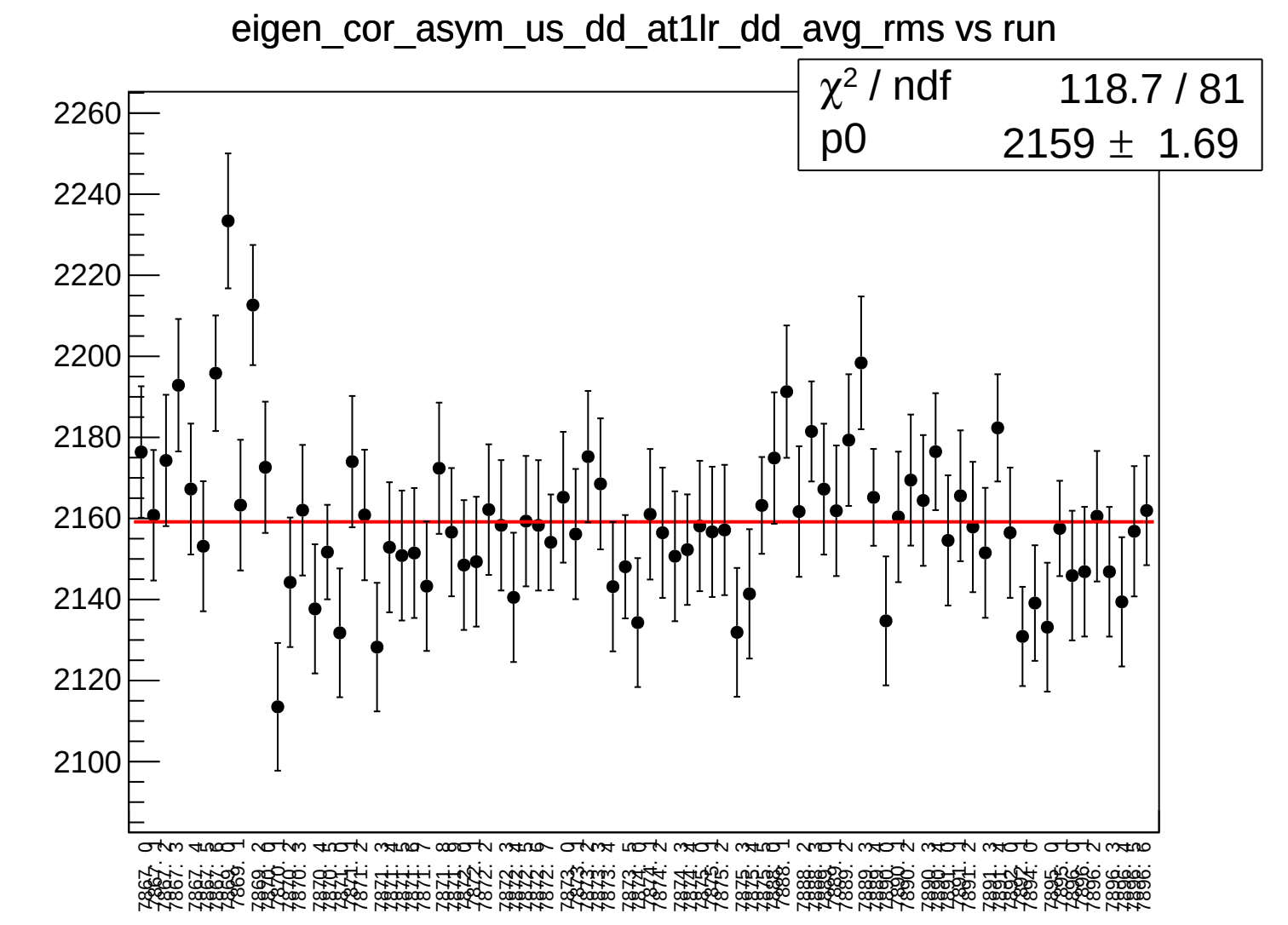

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 65.11 / 81
p0 −853.2 ± 1826
pull
Entries 82
Mean −90.74
Std Dev 0

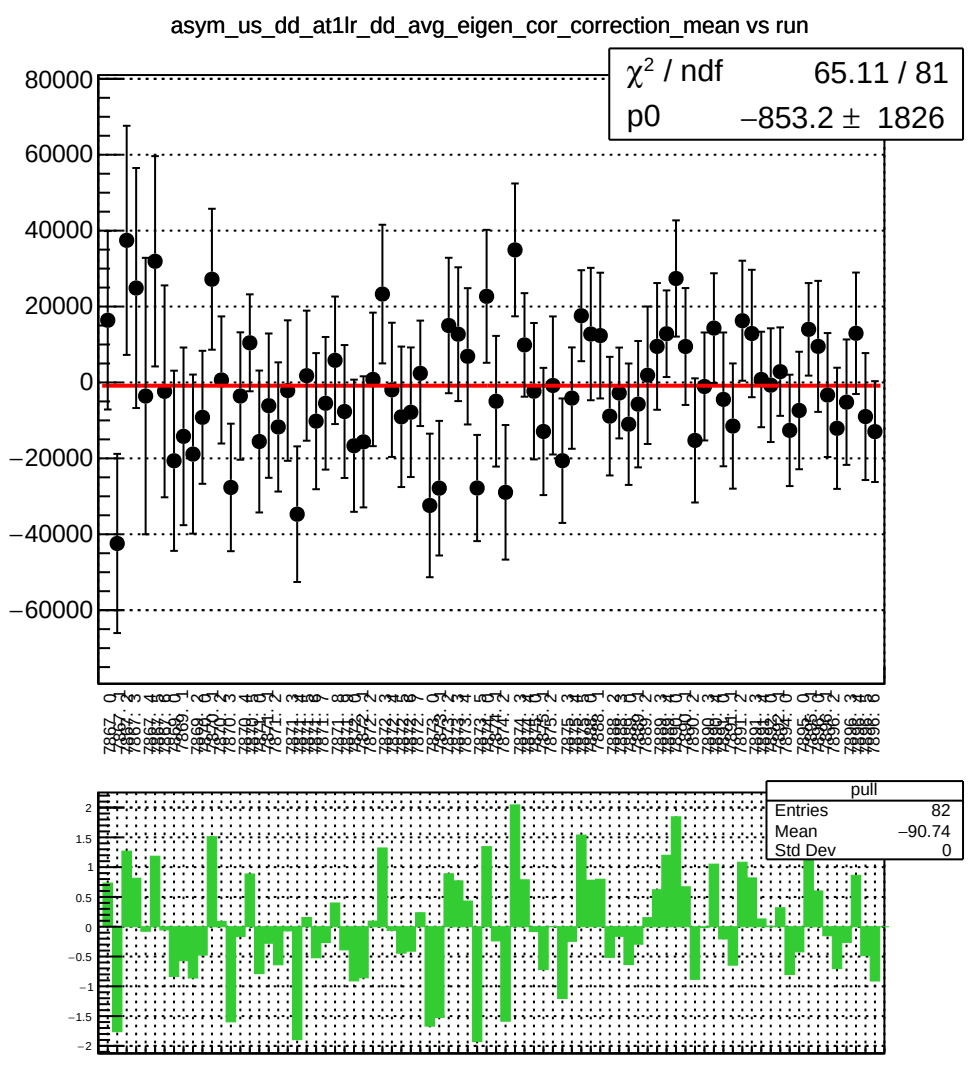

pull1D
Entries 82
Mean −0.0187
Std Dev 0.8909

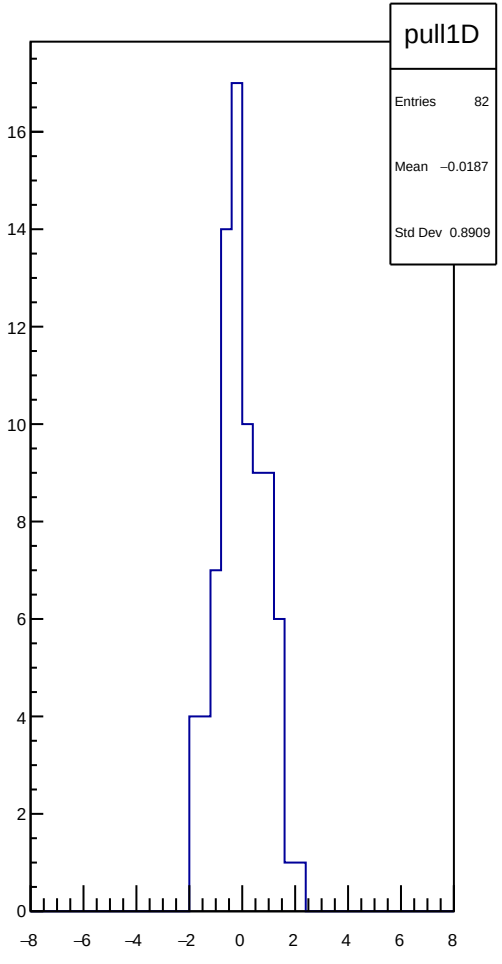

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.46e+04 / 81
p0 1632 ± 1.291
3500
3000
2500
2000
1500

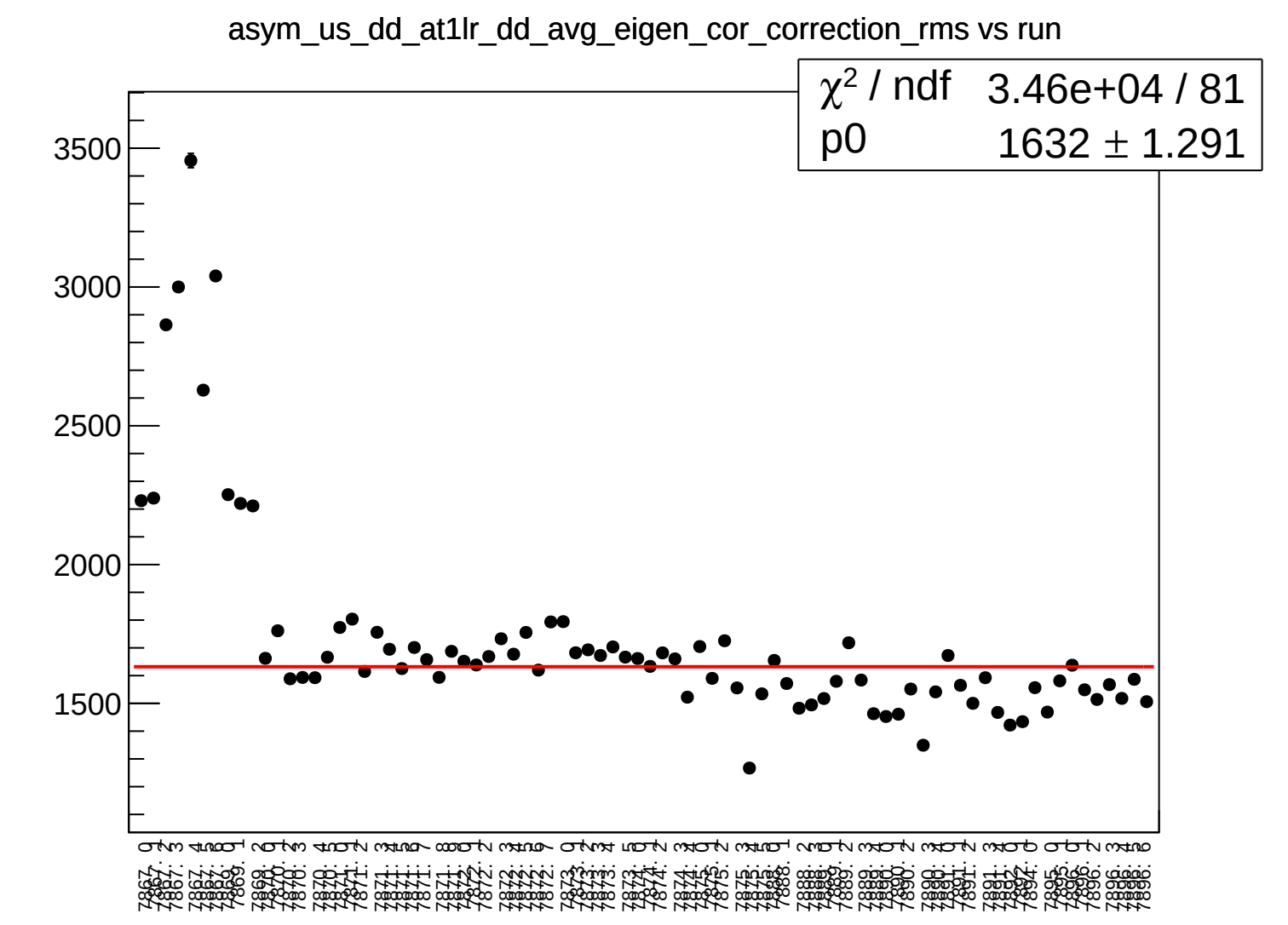

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.65 / 81
p0 2449 ± 2390
pull
Entries 82
Mean 922.1
Std Dev 0

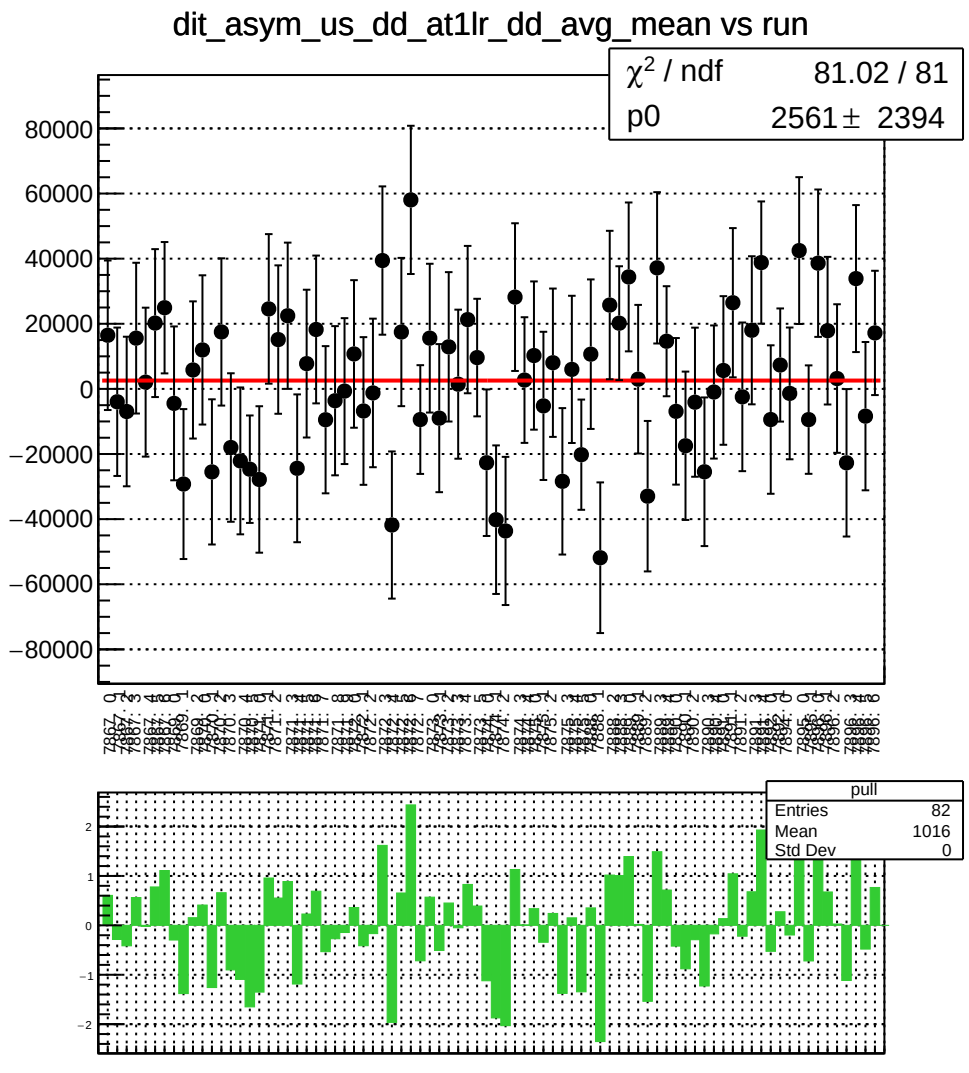

pull1D
Entries 82
Mean 0.003335
Std Dev 0.9979

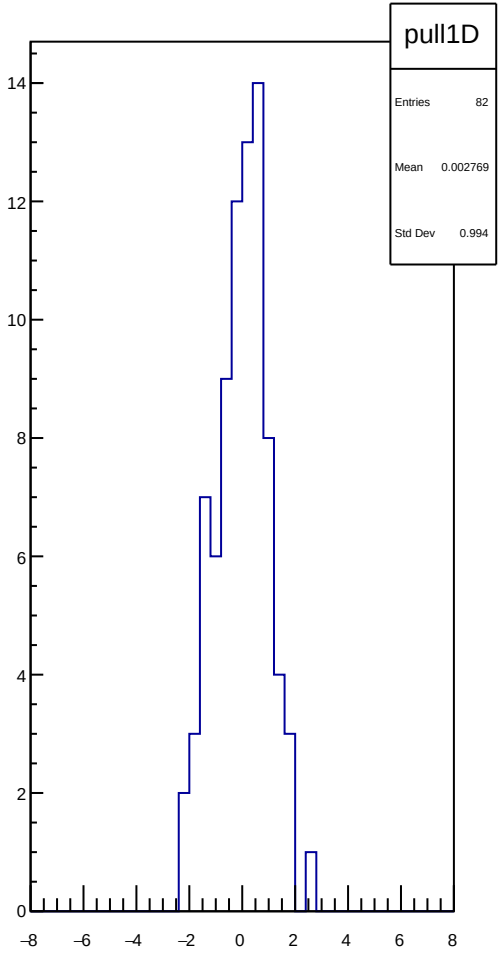

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 118.7 / 81
p0 2159 ± 1.69
2260
2240
2220
2200
2180
2160
2140
2120
2100

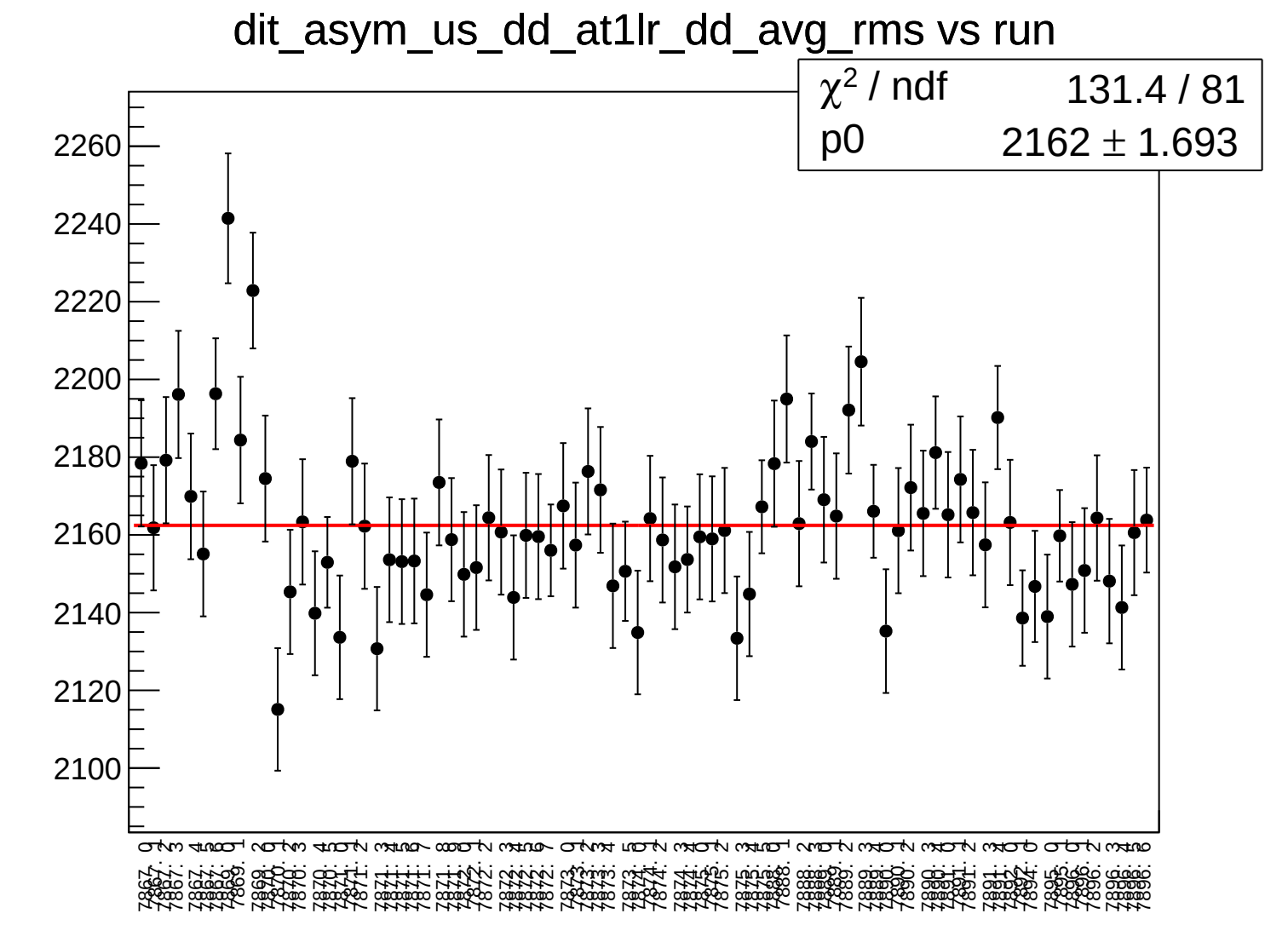

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.11 / 81
p0 −853.2 ± 1826
pull
Entries 82
Mean −90.74
Std Dev 0

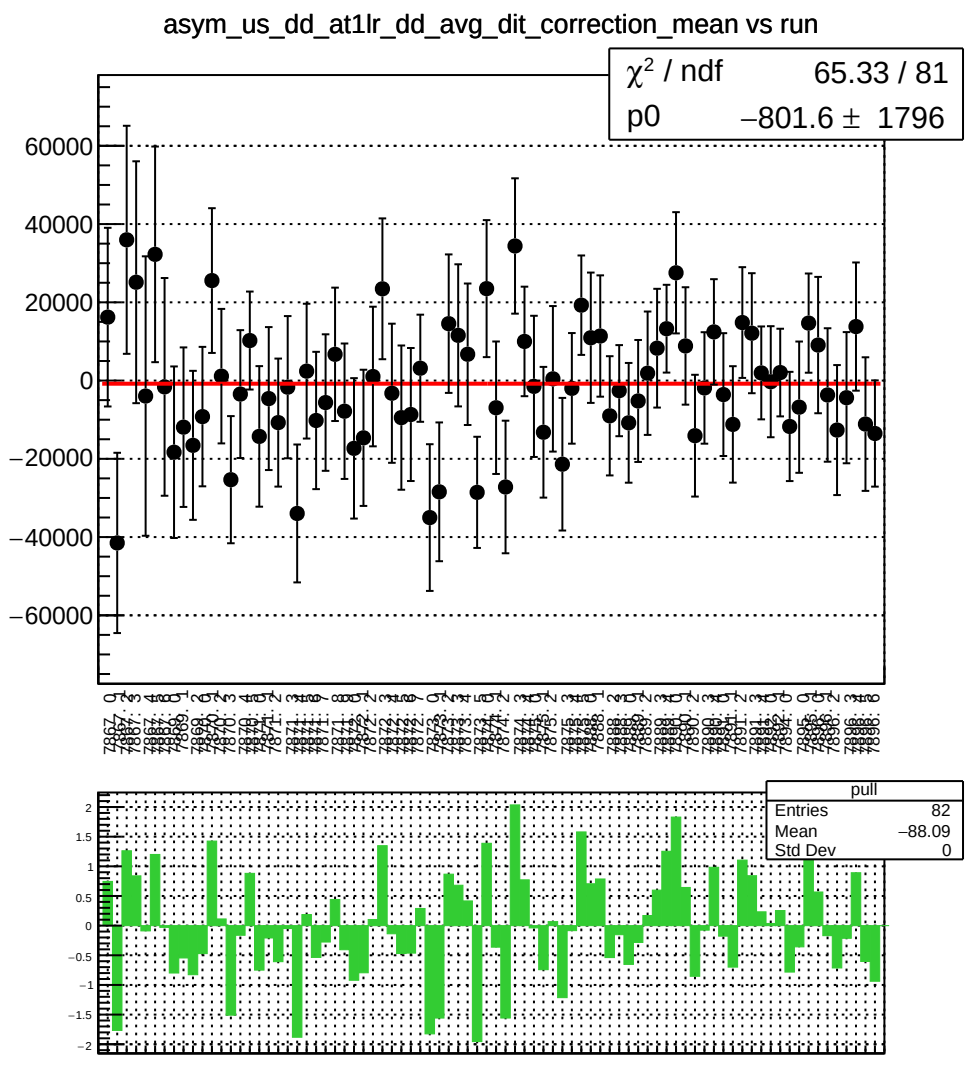

pull1D
Entries 82
Mean −0.0187
Std Dev 0.8909

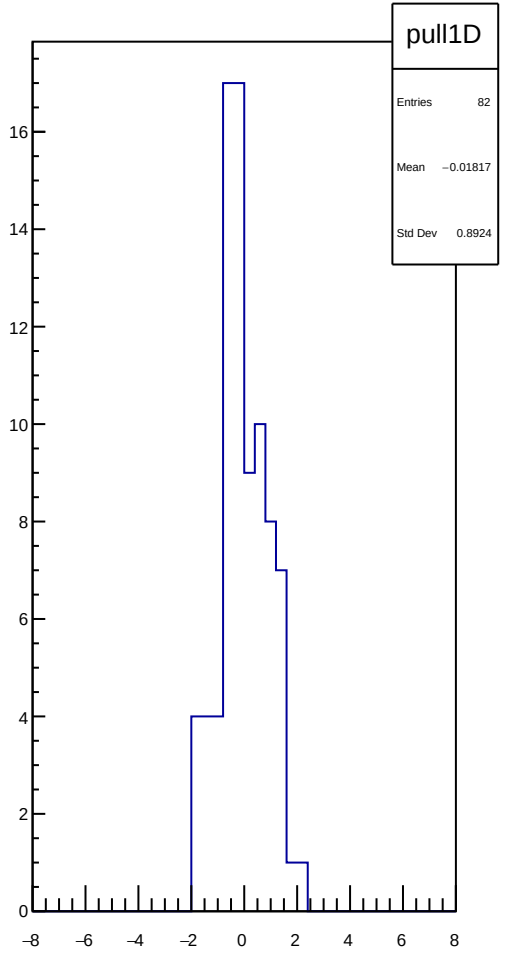

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.46e+04 / 81
p0 1632 ± 1.291
3500
3000
2500
2000
1500

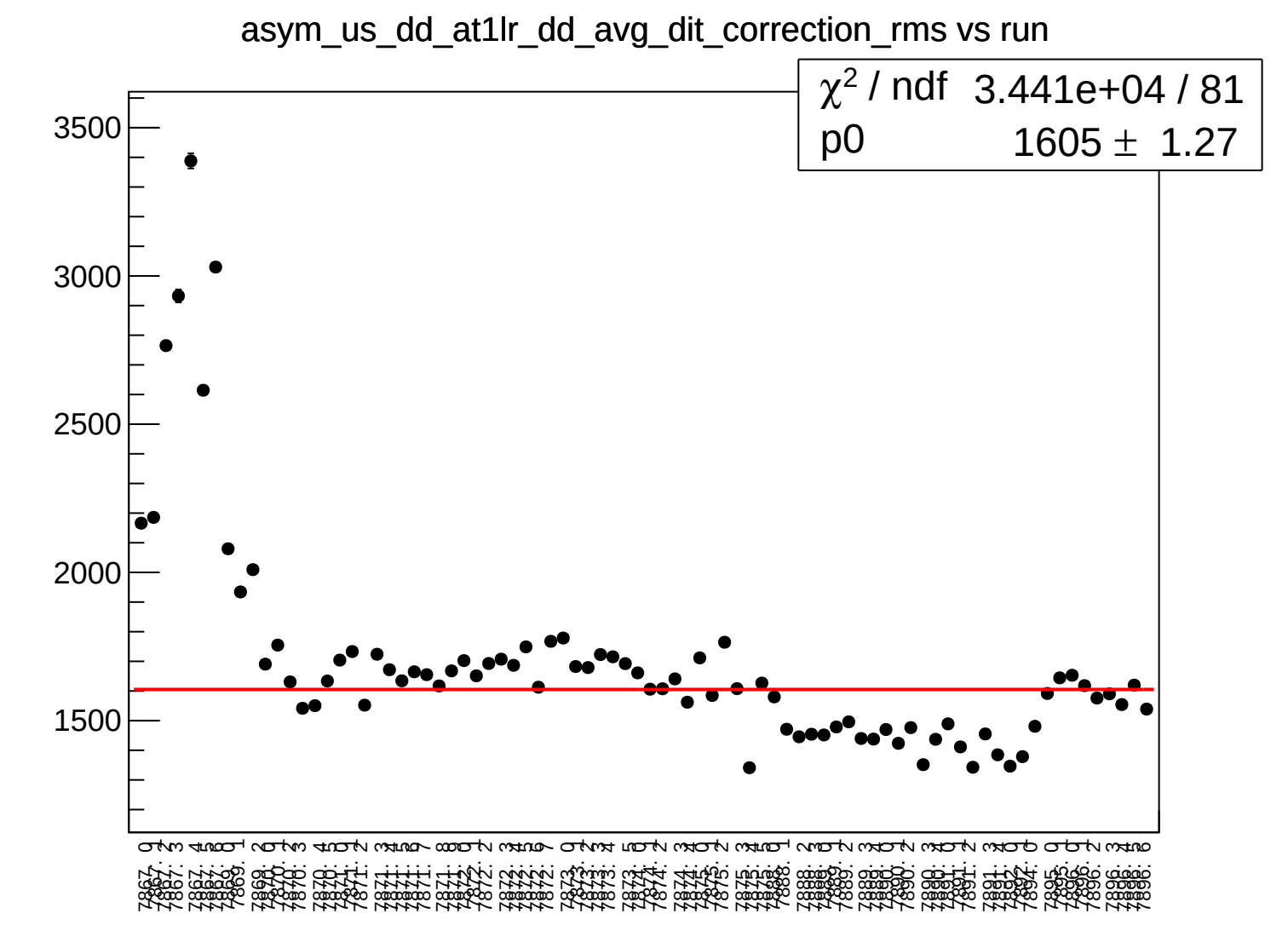

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ^2 / ndf 81.02 / 81
p0 2561 ± 2394
pull
Entries 82
Mean 1016
Std Dev 0

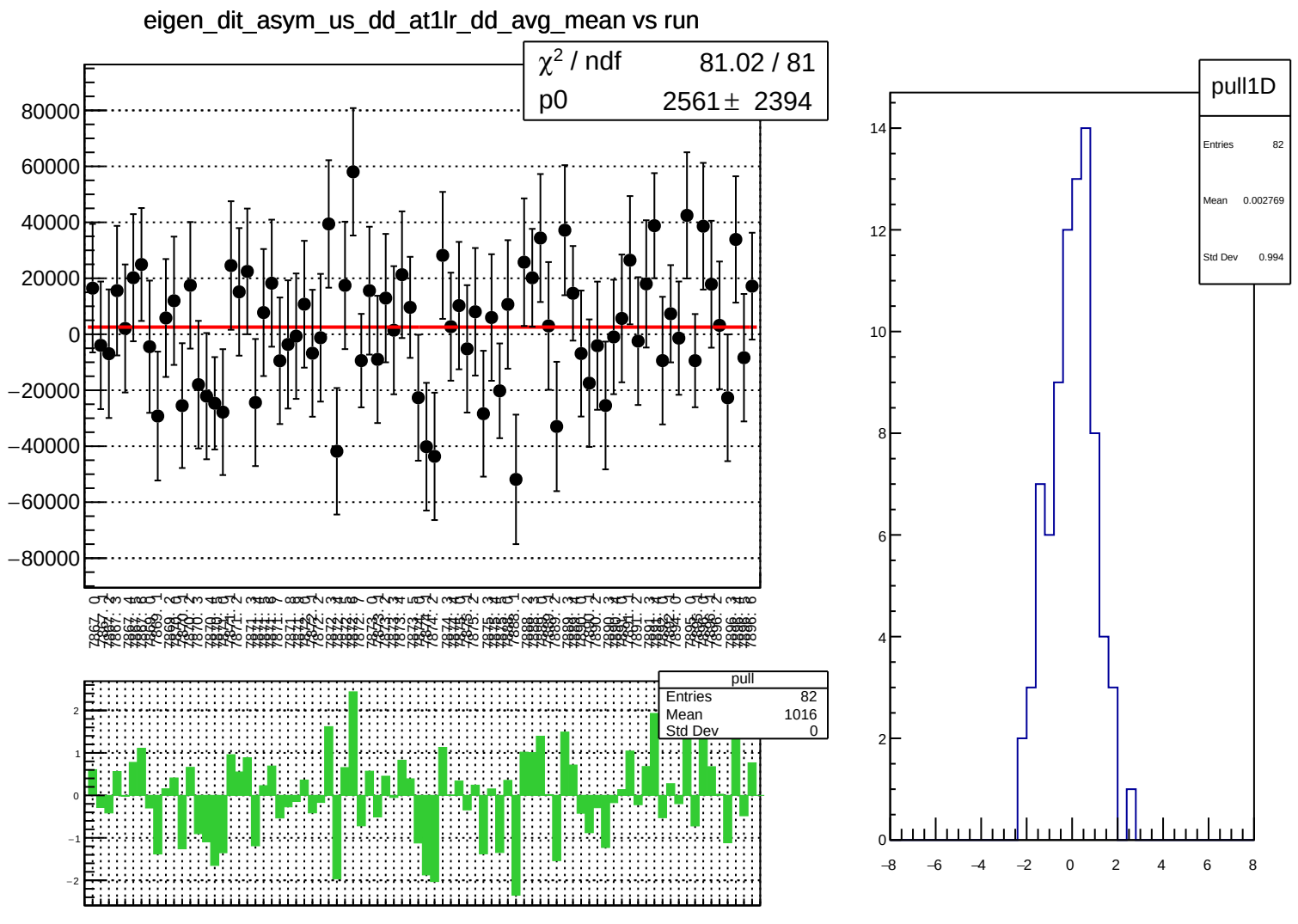

pull1D
Entries 82
Mean 0.002769
Std Dev 0.994

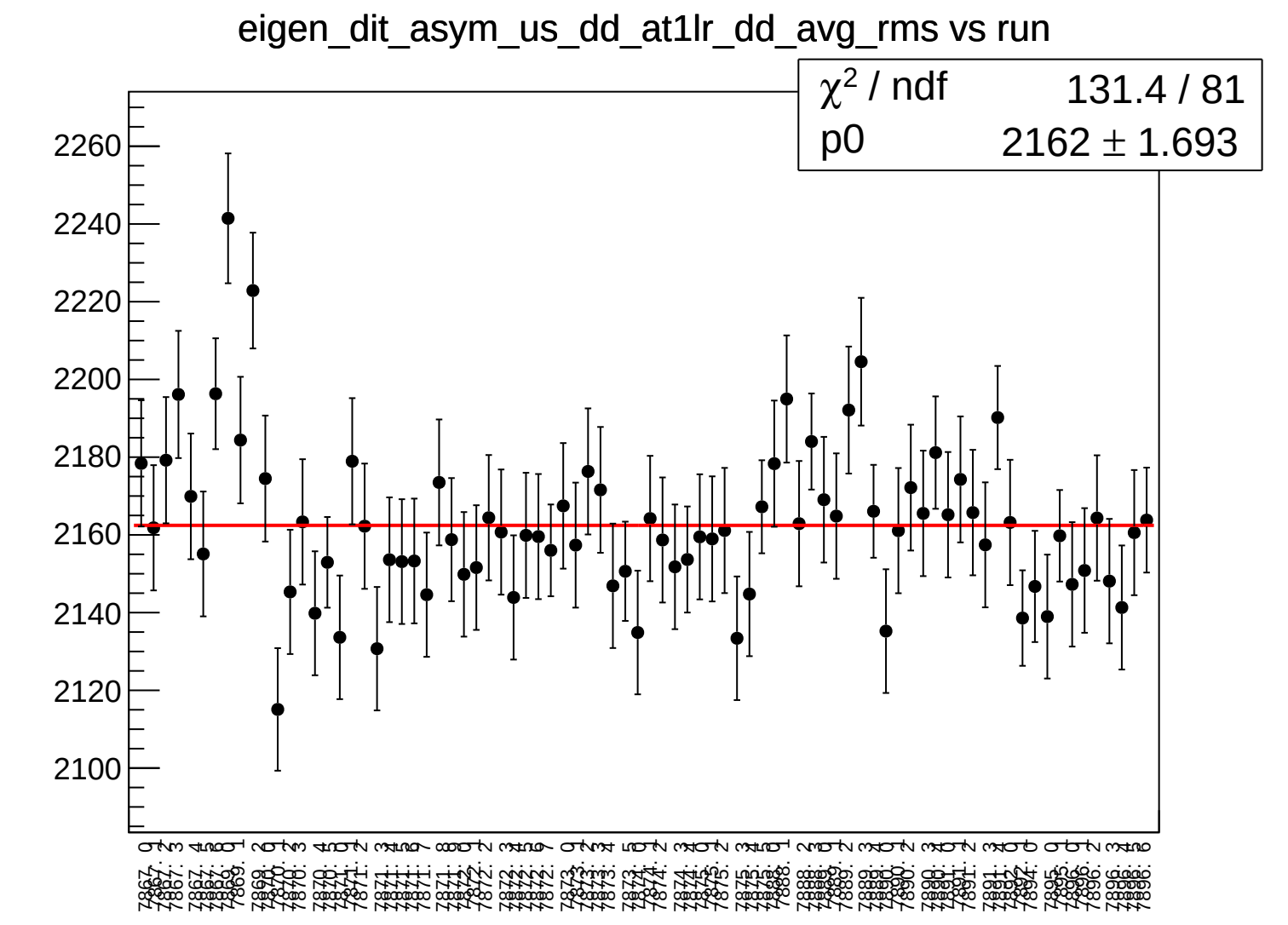

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 131.4 / 81
p0 2162 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100

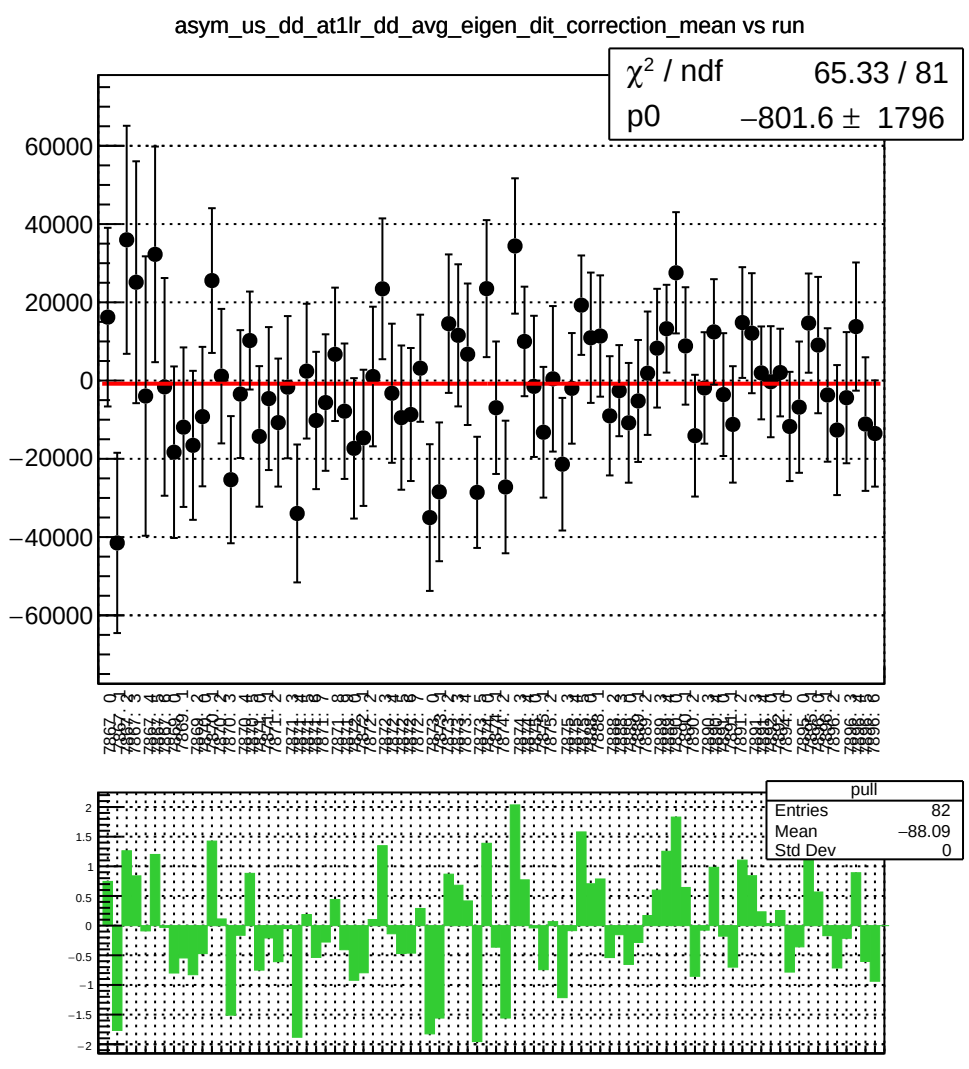

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 65.33 / 81
p0 −801.6 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −88.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

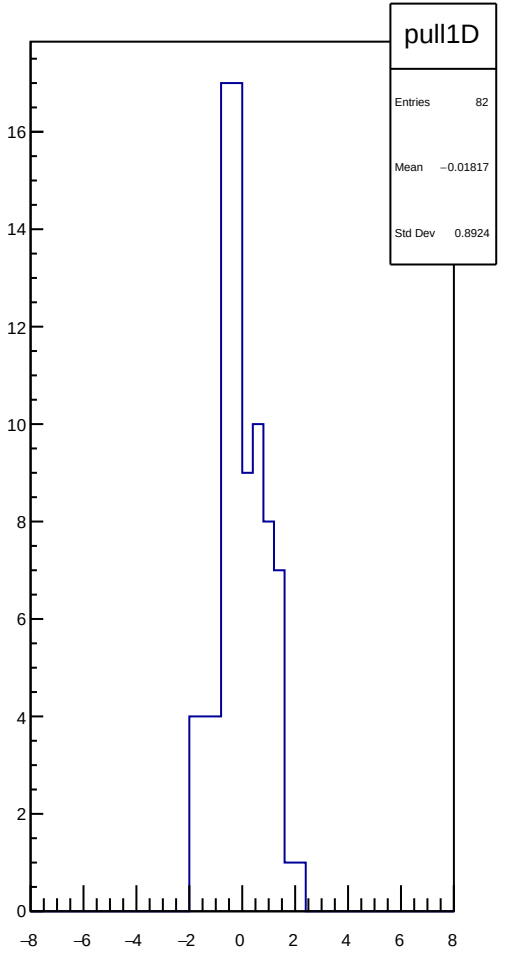

pull1D
Entries 82
Mean −0.01817
Std Dev 0.8924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

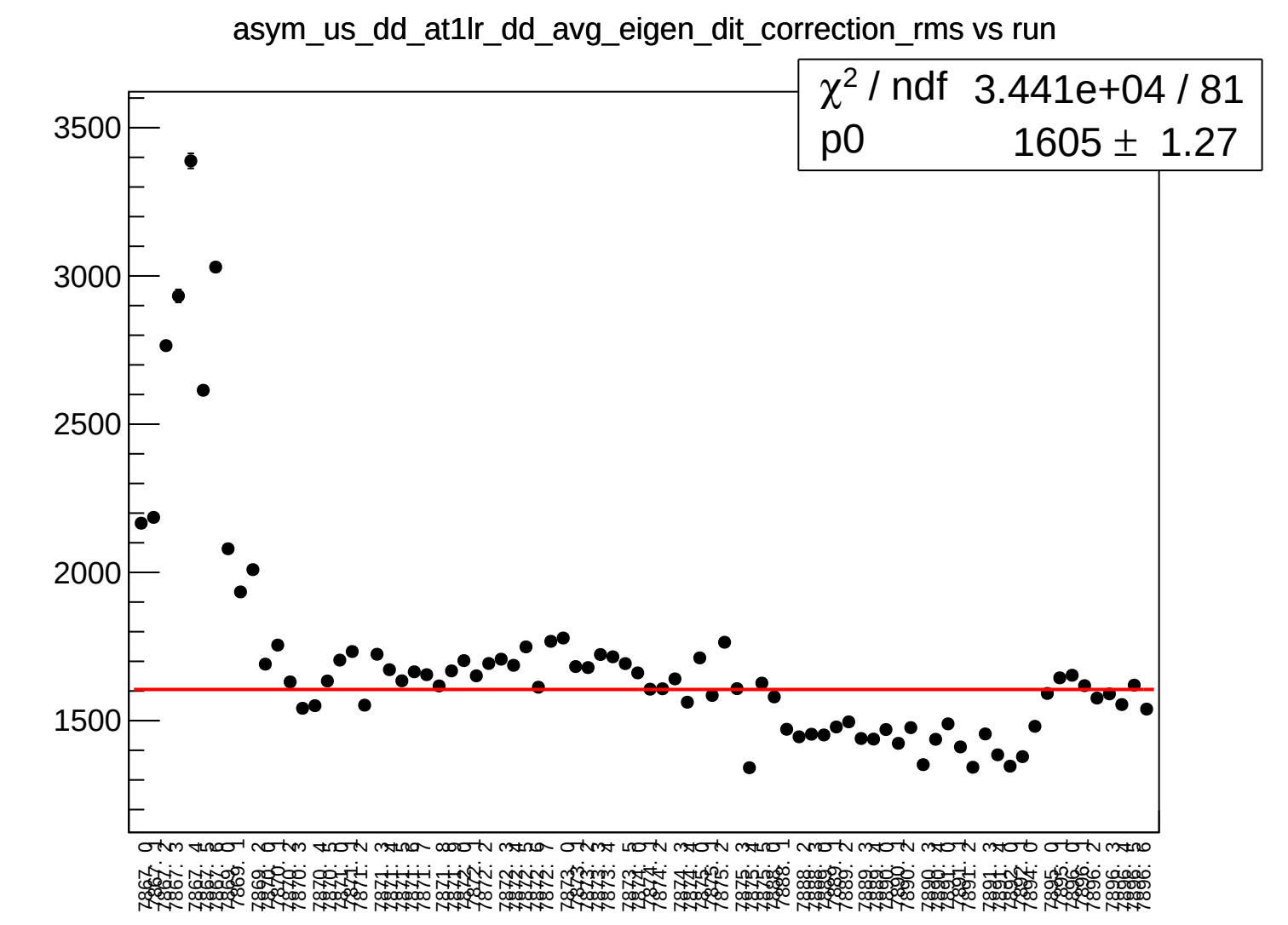

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.441e+04 / 81
p0 1605 ± 1.27
3500
3000
2500
2000
1500

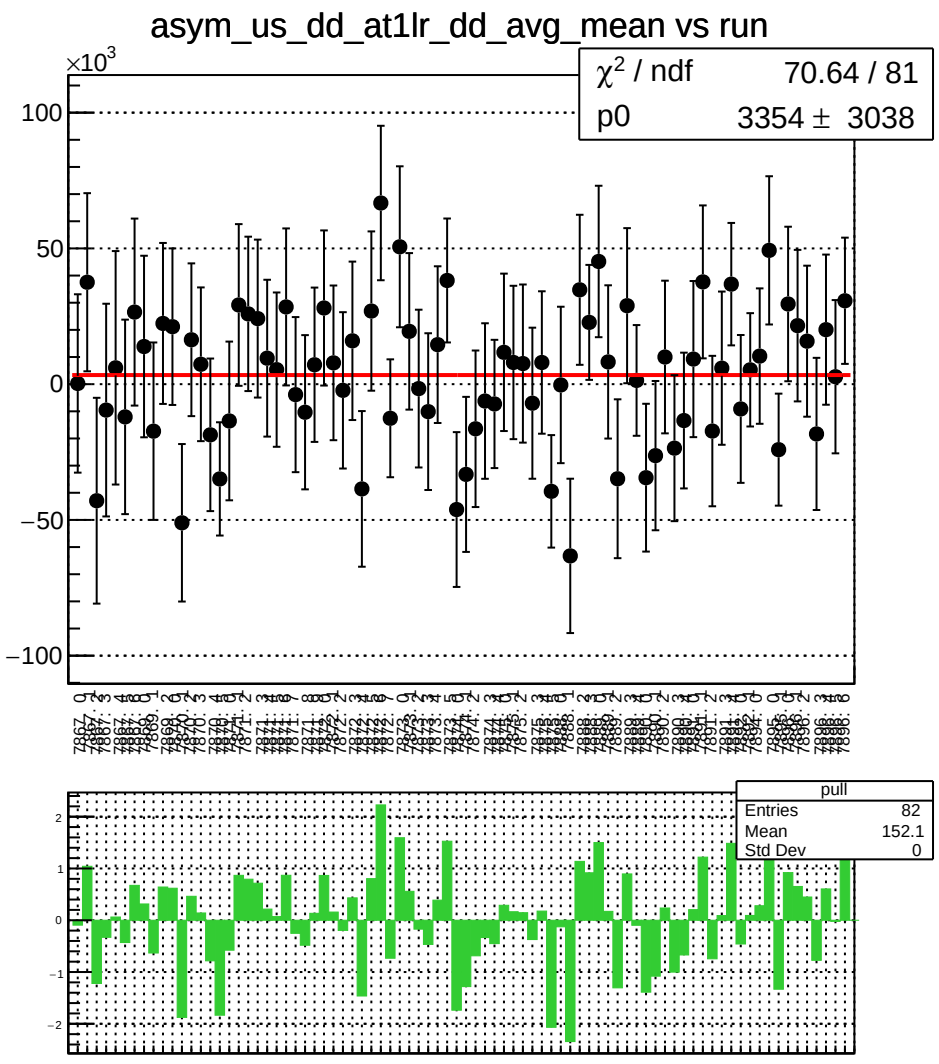

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.02 / 81
p0 2561 ± 2394
pull
Entries 82
Mean 1016
Std Dev 0
pull1D
Entries 82
Mean 0.002769
Std Dev 0.994

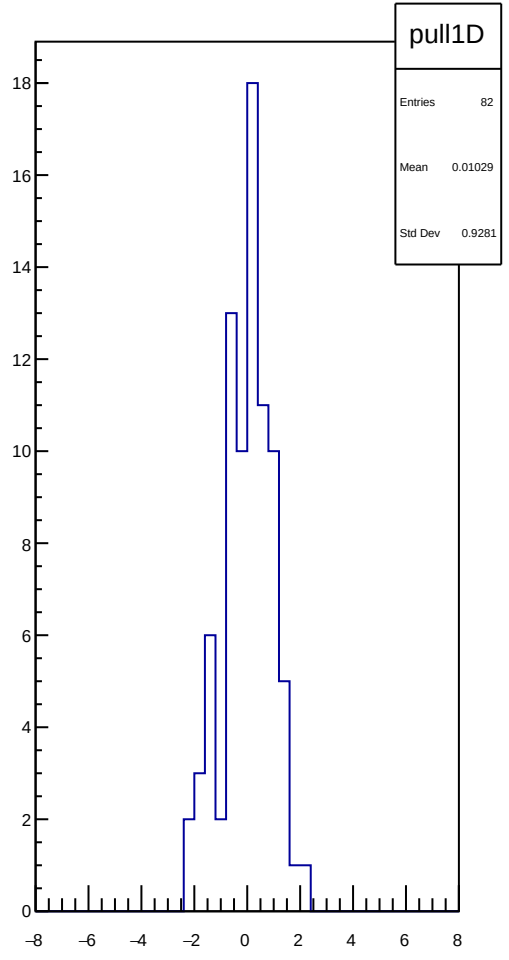

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 131.4 / 81
p0 2162 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100

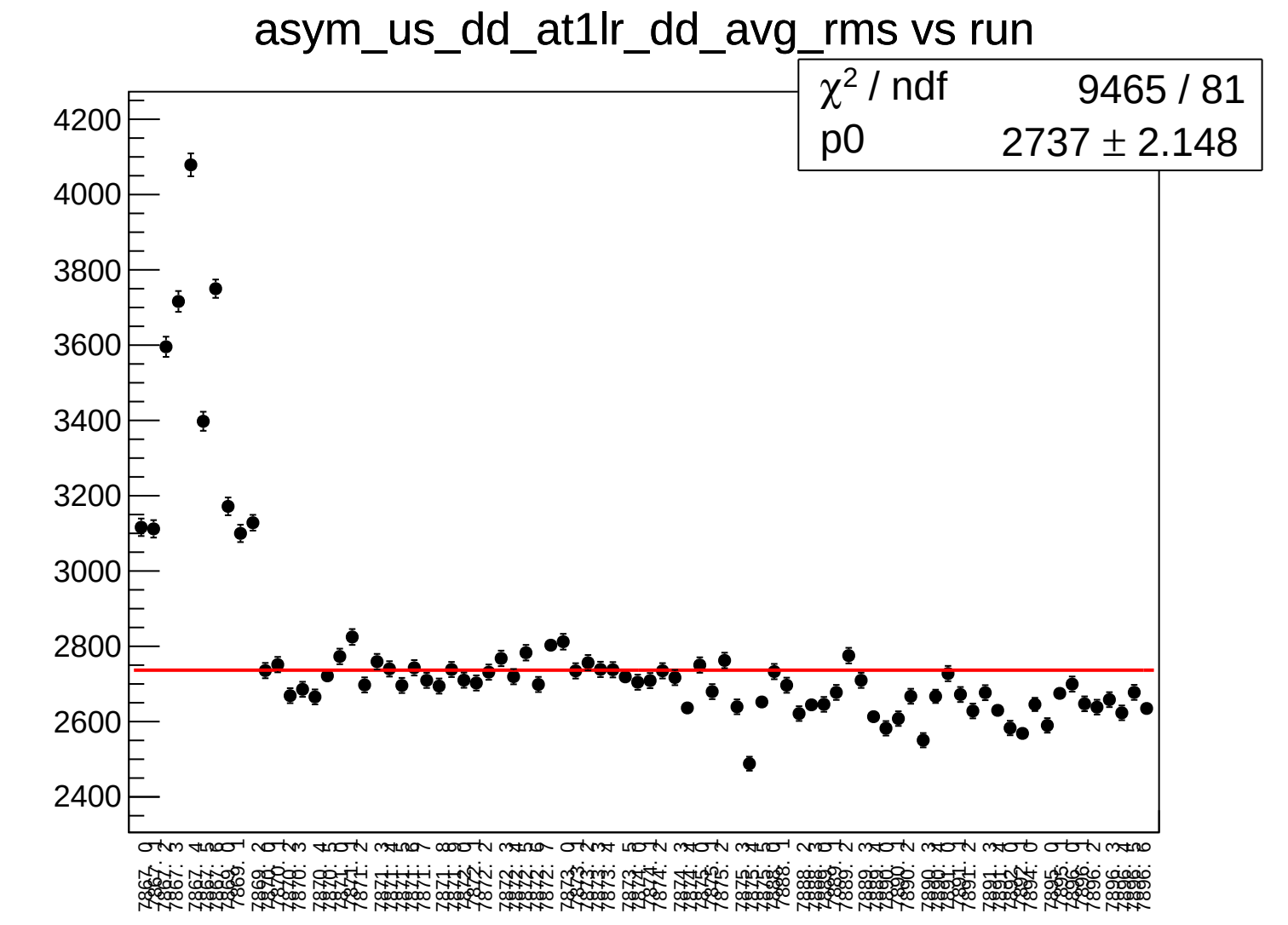

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.33 / 81
p0 −801.6 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −88.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

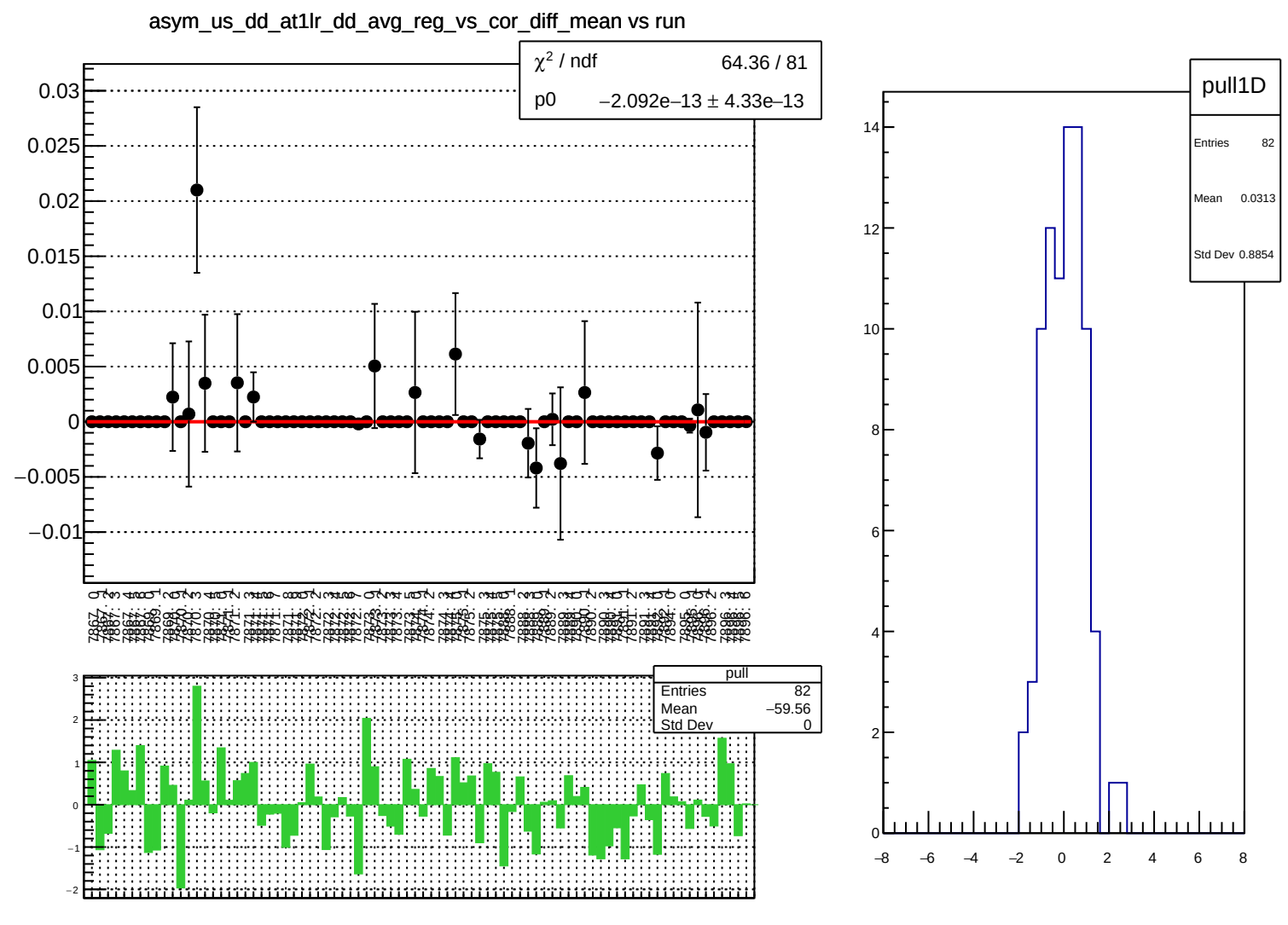

pull1D
Entries 82
Mean −0.01817
Std Dev 0.8924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

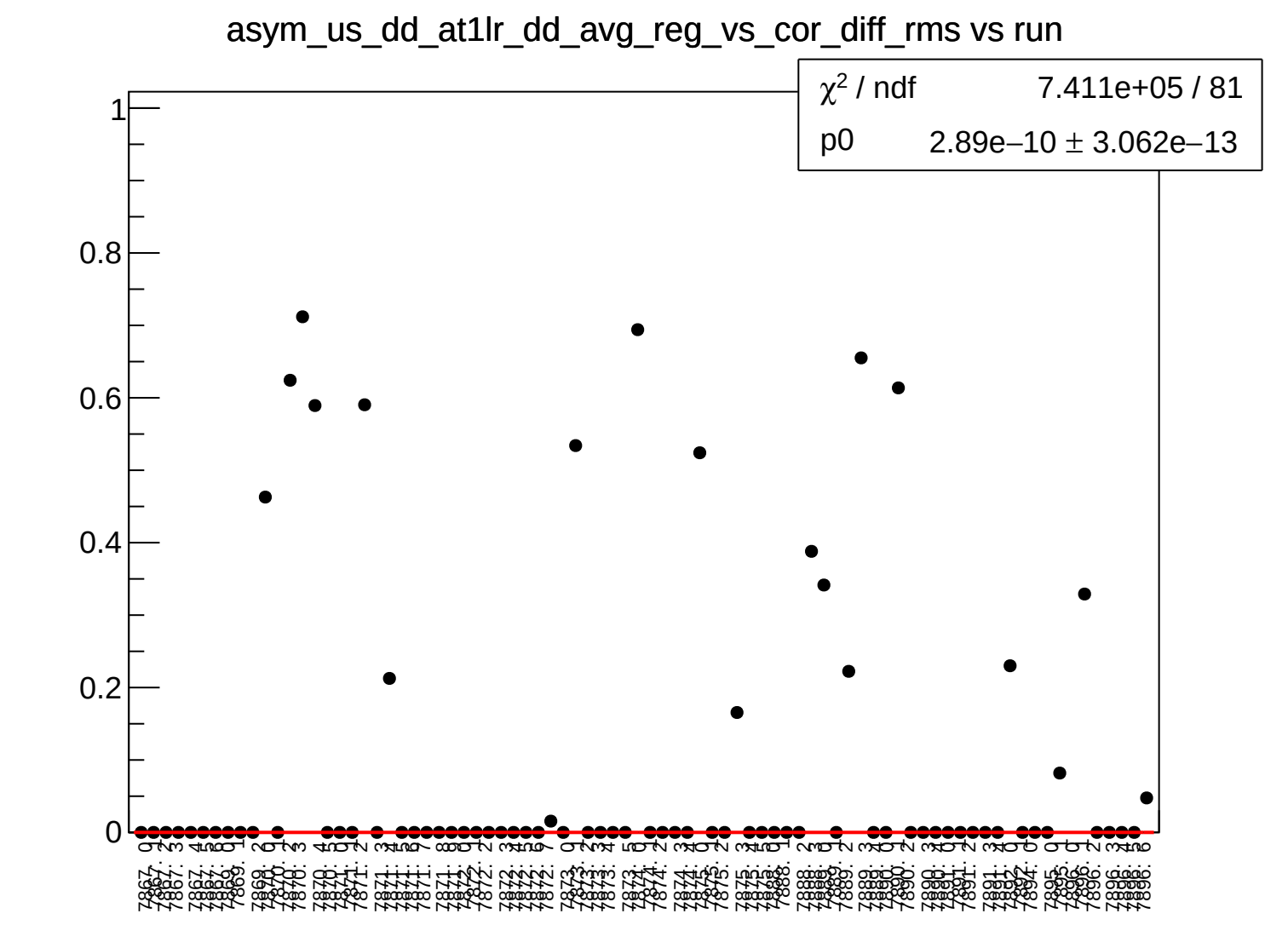

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.441e+04 / 81
p0 1605 ± 1.27
3500
3000
2500
2000
1500

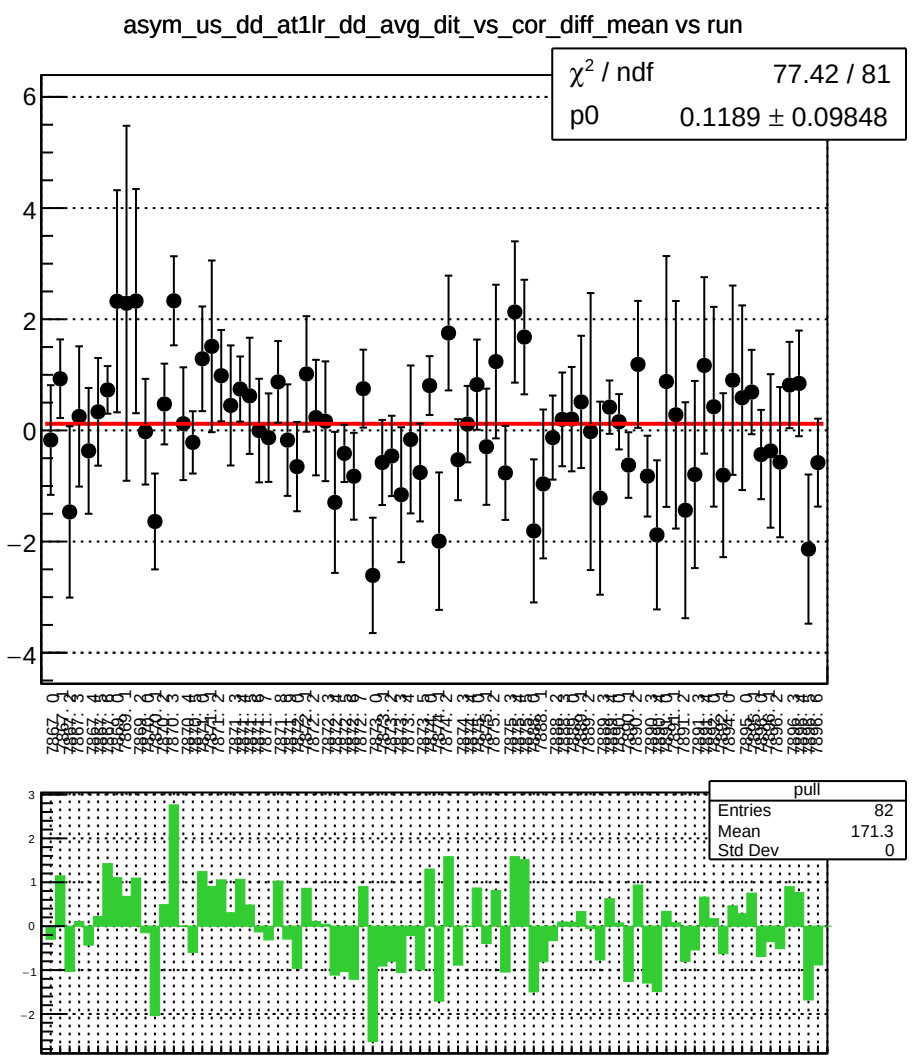

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 70.64 / 81
p0 3354 ± 3038
100
50
0
−50
−100
pull
Entries 82
Mean 152.1
Std Dev 0
2
1
0
−1
−2

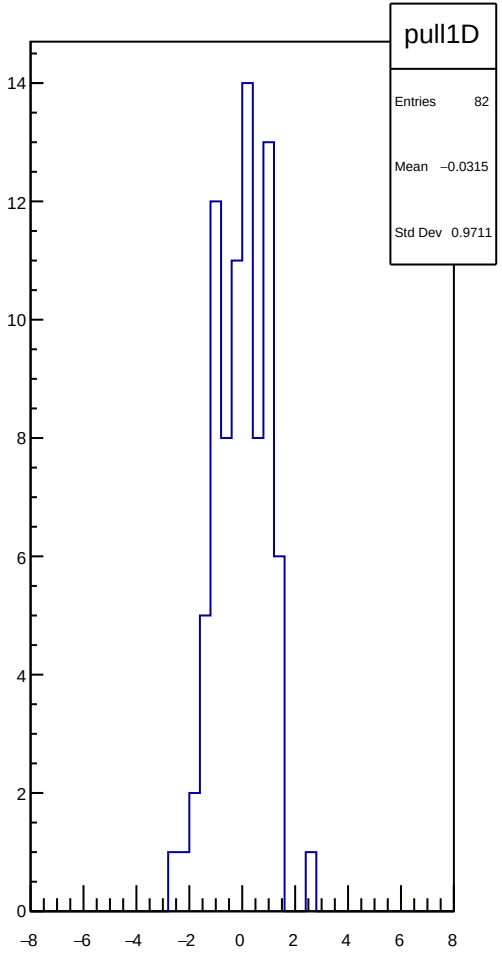

pull1D
Entries 82
Mean 0.01029
Std Dev 0.9281
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

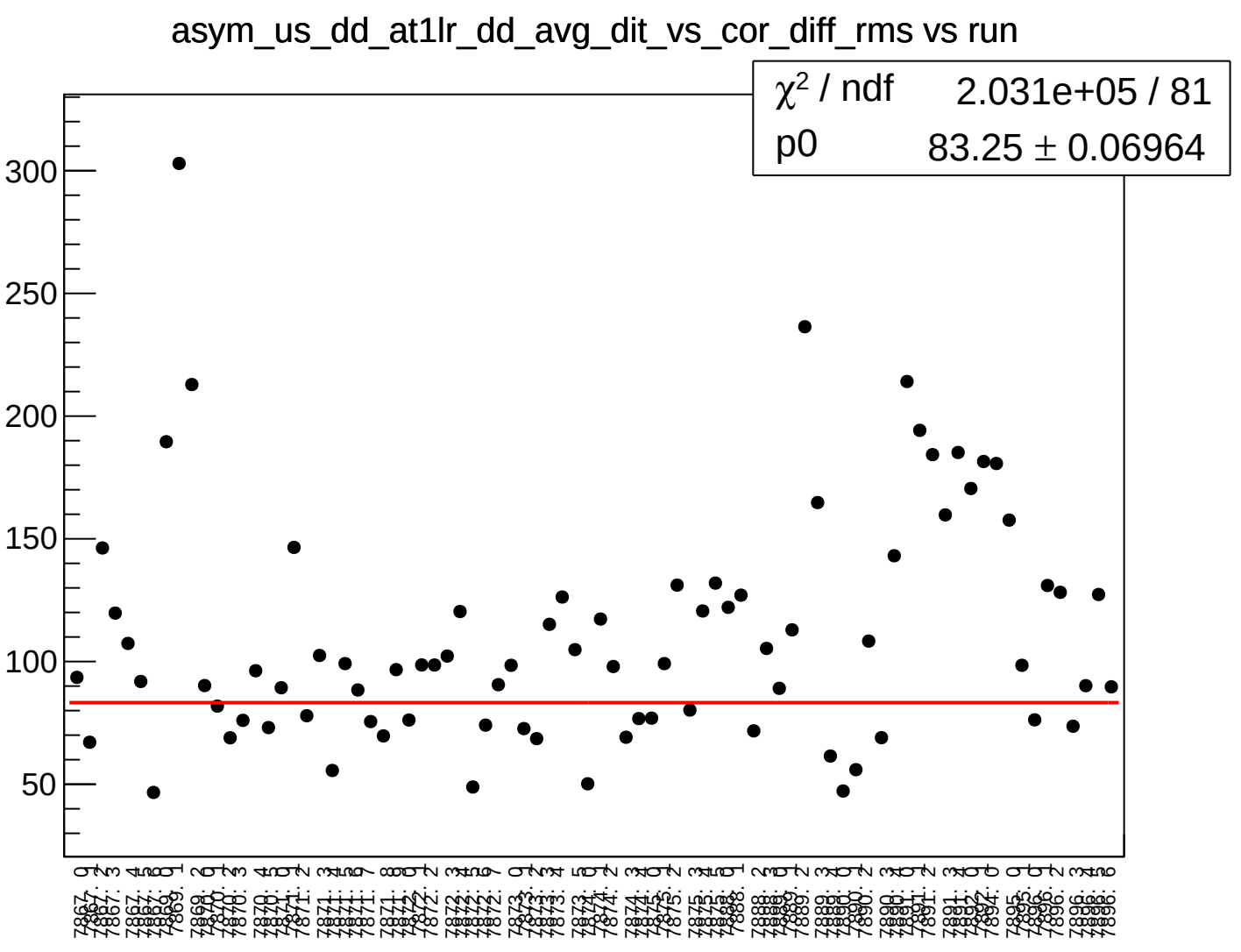

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 9465 / 81
p0 2737 ± 2.148
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

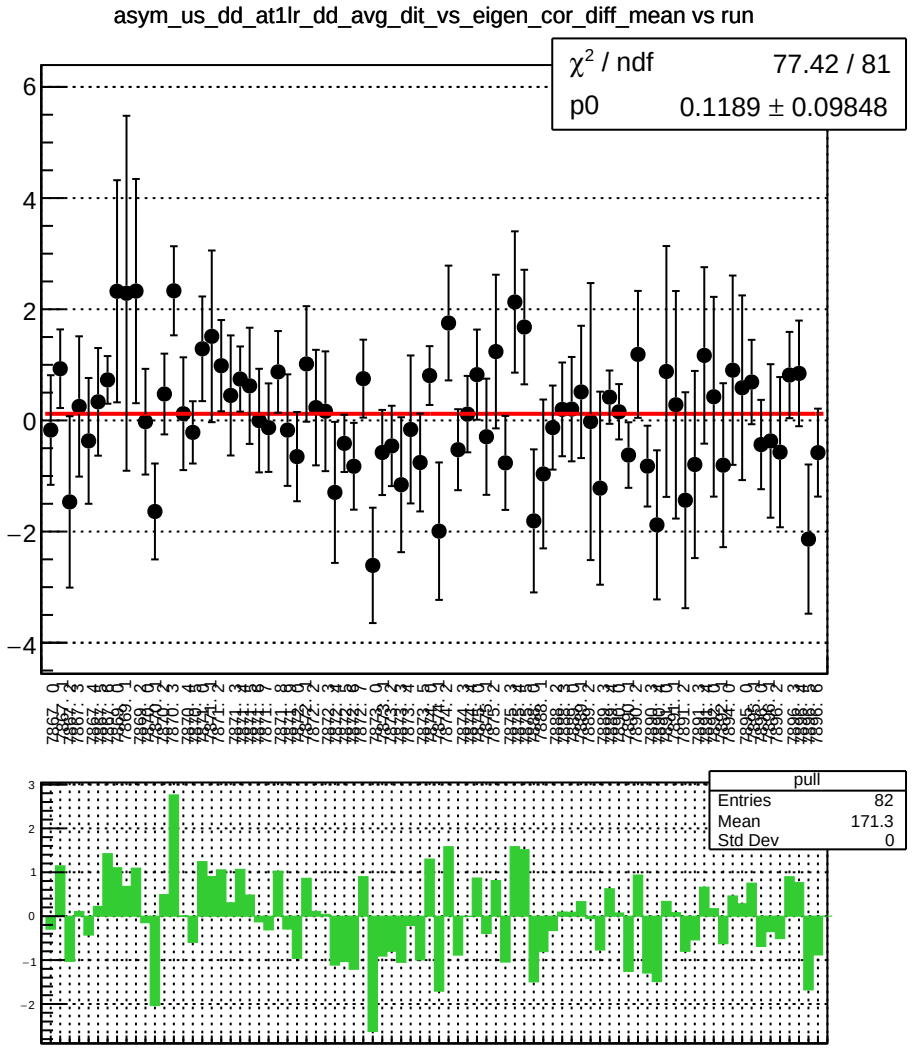

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.36 / 81
p0 −2.092e−13 ± 4.33e−13
pull
Entries 82
Mean −59.56
Std Dev 0
pull1D
Entries 82
Mean 0.0313
Std Dev 0.8854

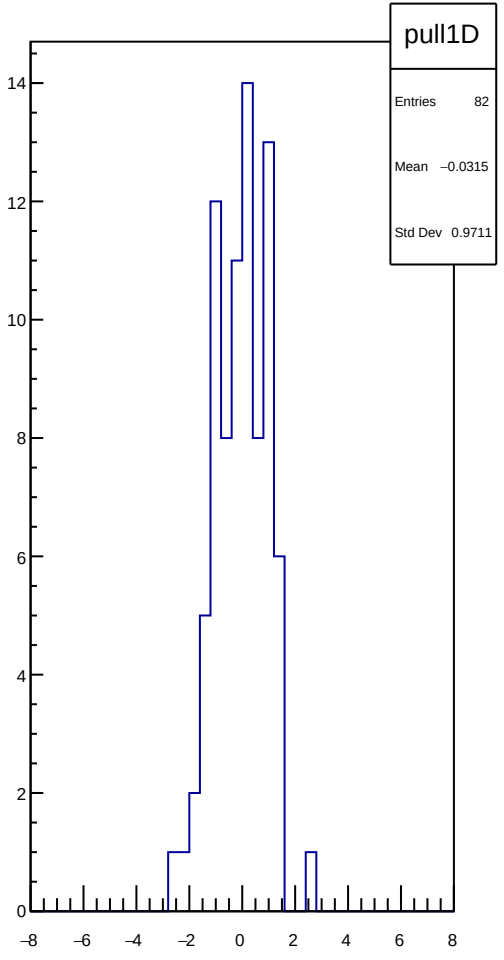

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.411e+05 / 81
p0 2.89e−10 ± 3.062e−13
1
0.8
0.6
0.4
0.2
0

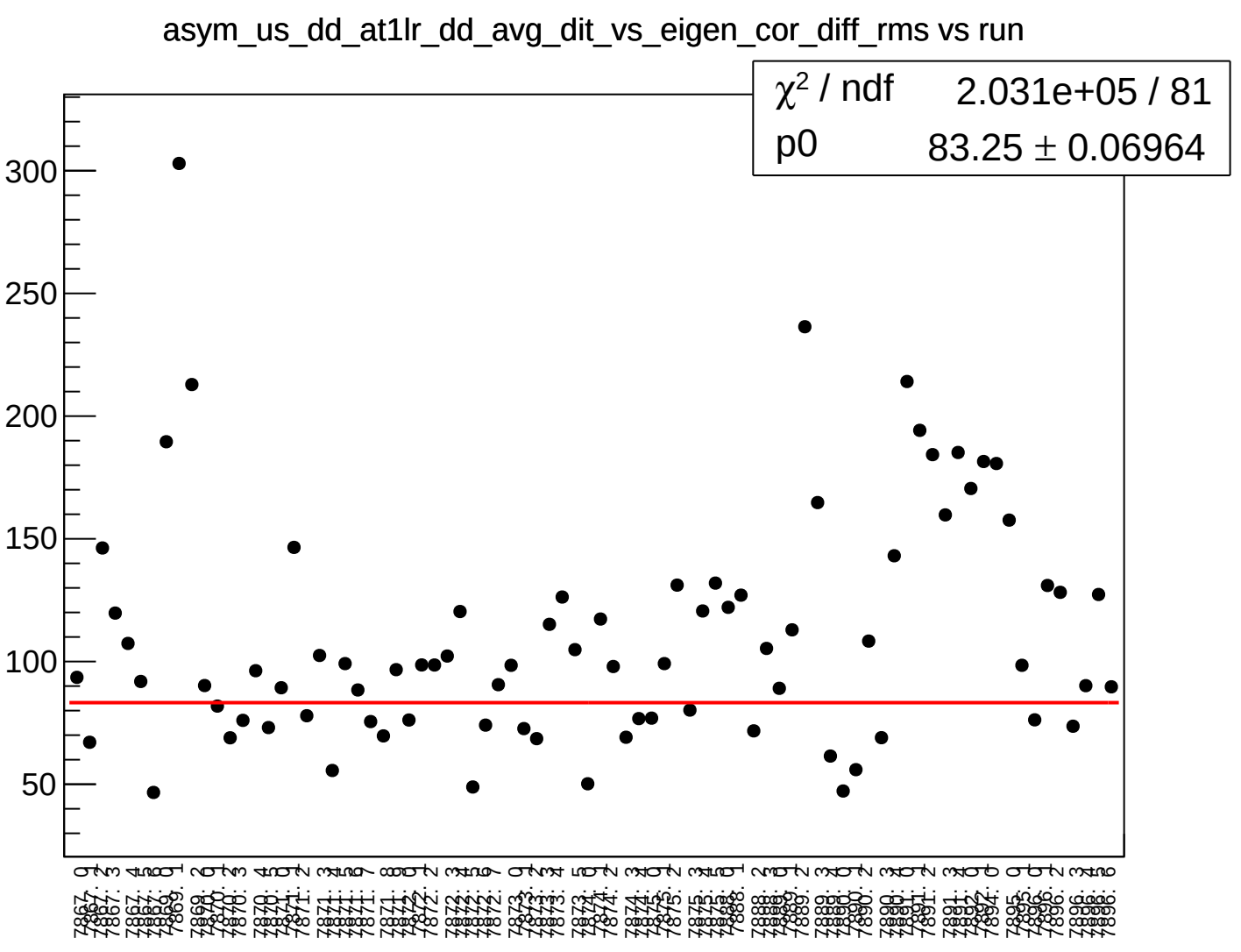

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 0.1189 ± 0.09848
pull
Entries 82
Mean 171.3
Std Dev 0

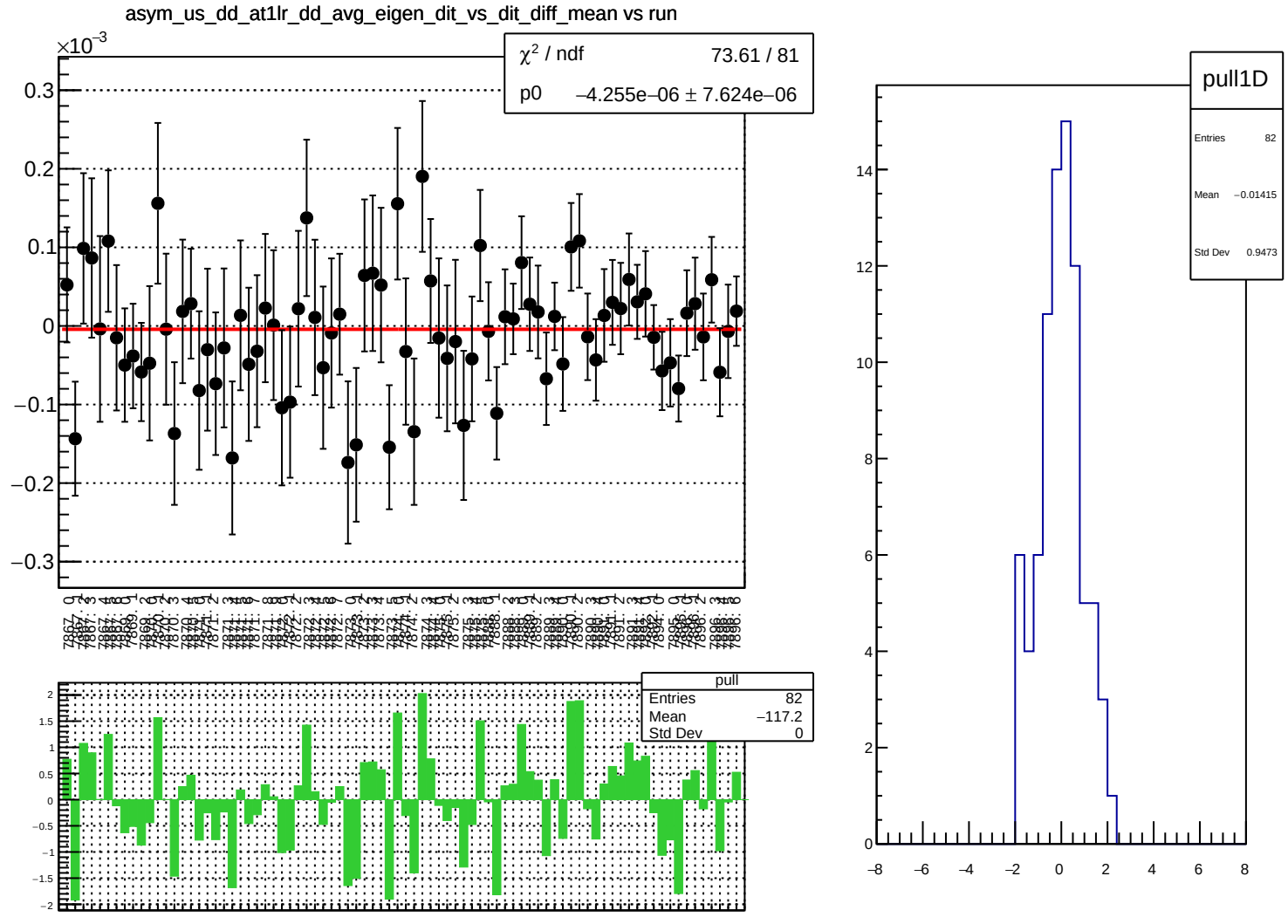

pull1D
Entries 82
Mean −0.0315
Std Dev 0.9711

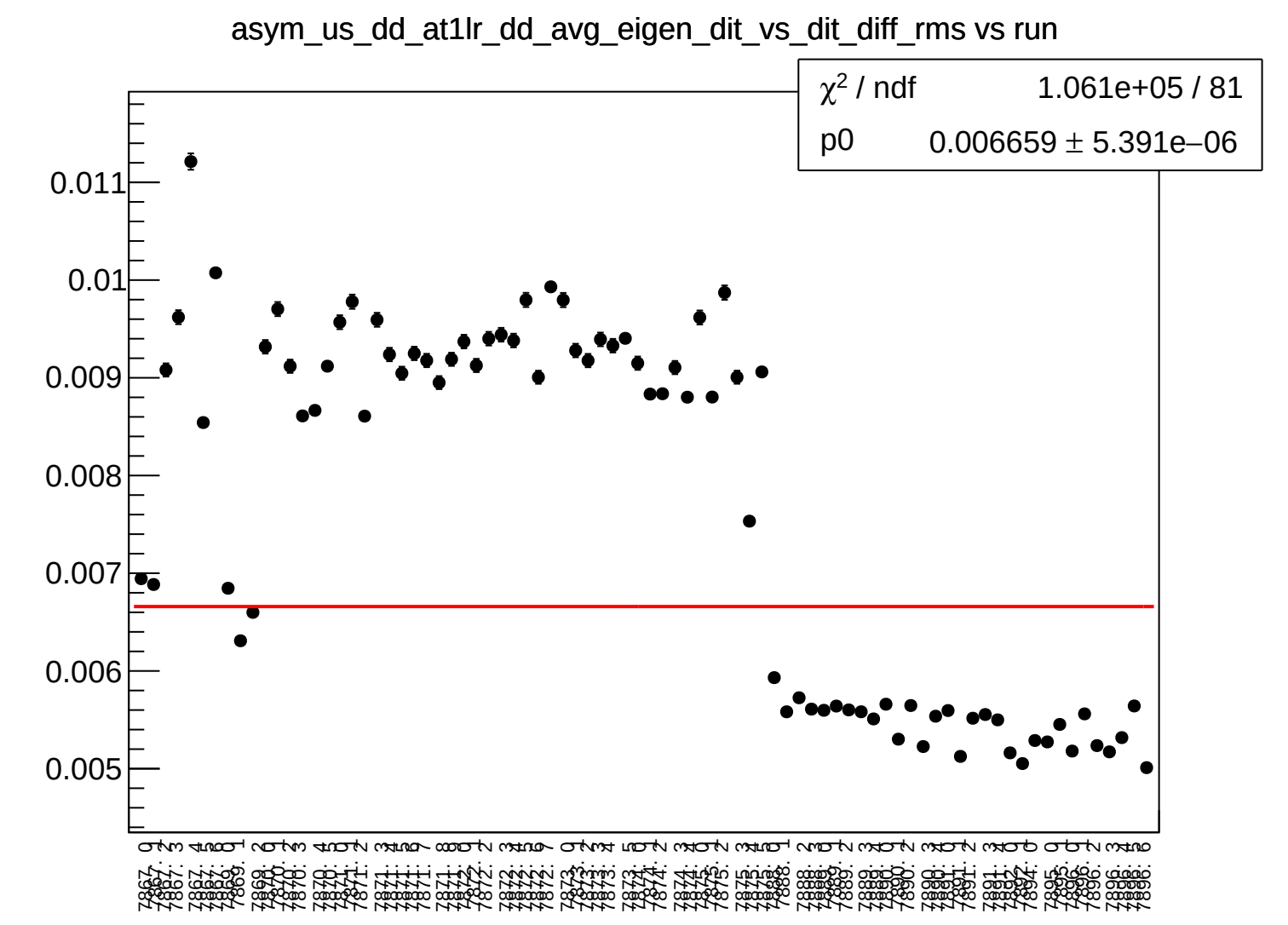

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.031e+05 / 81
p0 83.25 ± 0.06964
300
250
200
150
100
50

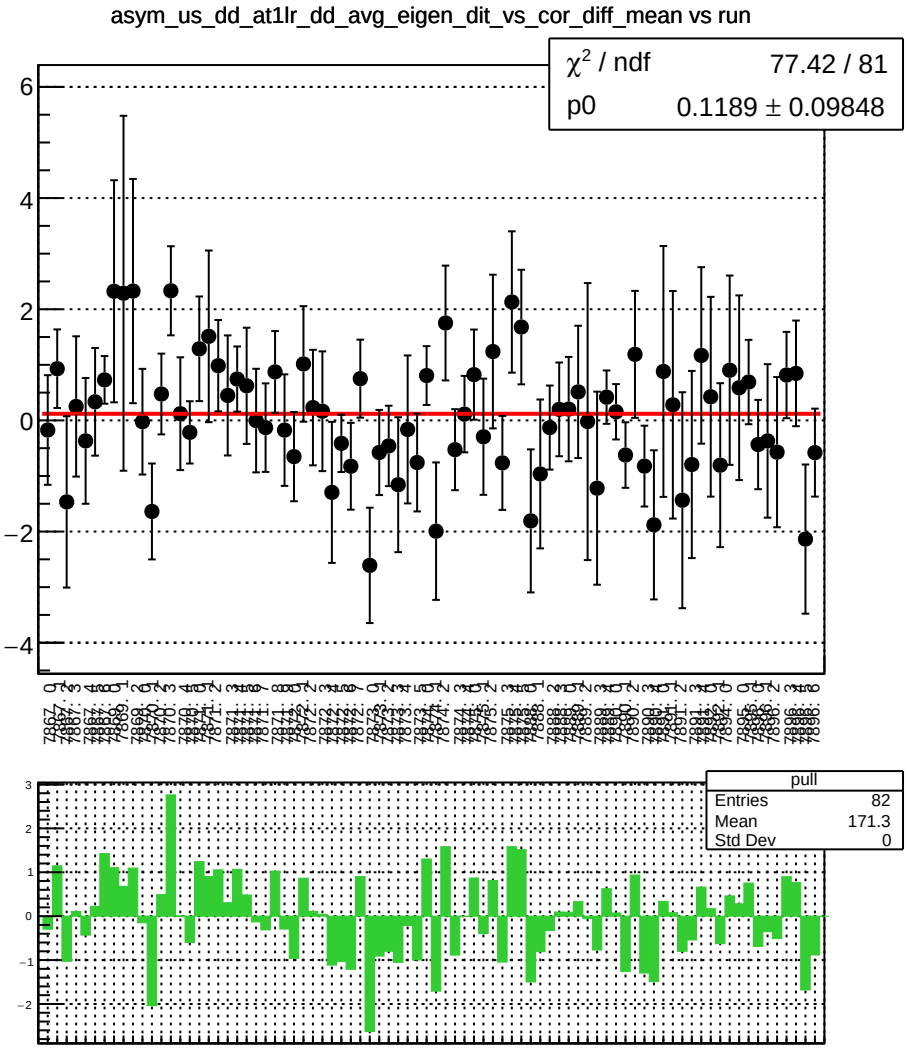

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 0.1189 ± 0.09848
pull
Entries 82
Mean 171.3
Std Dev 0

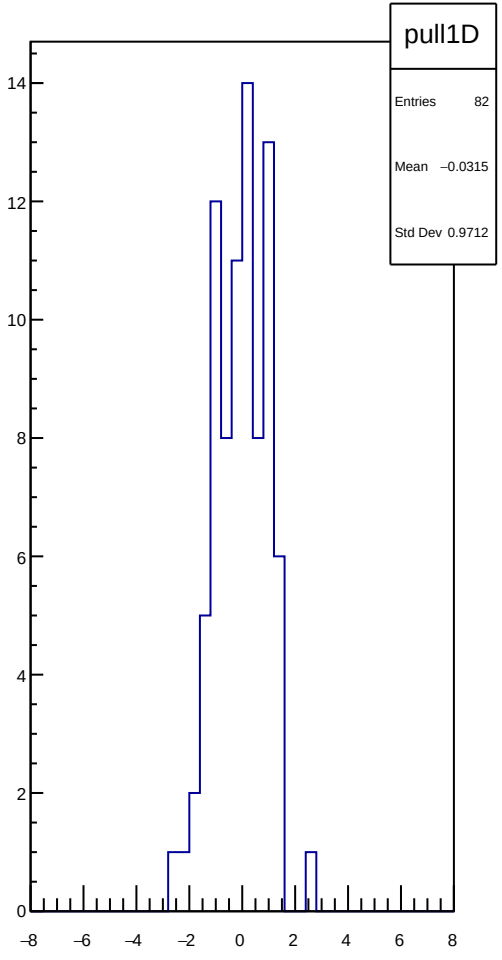

pull1D
Entries 82
Mean −0.0315
Std Dev 0.9711

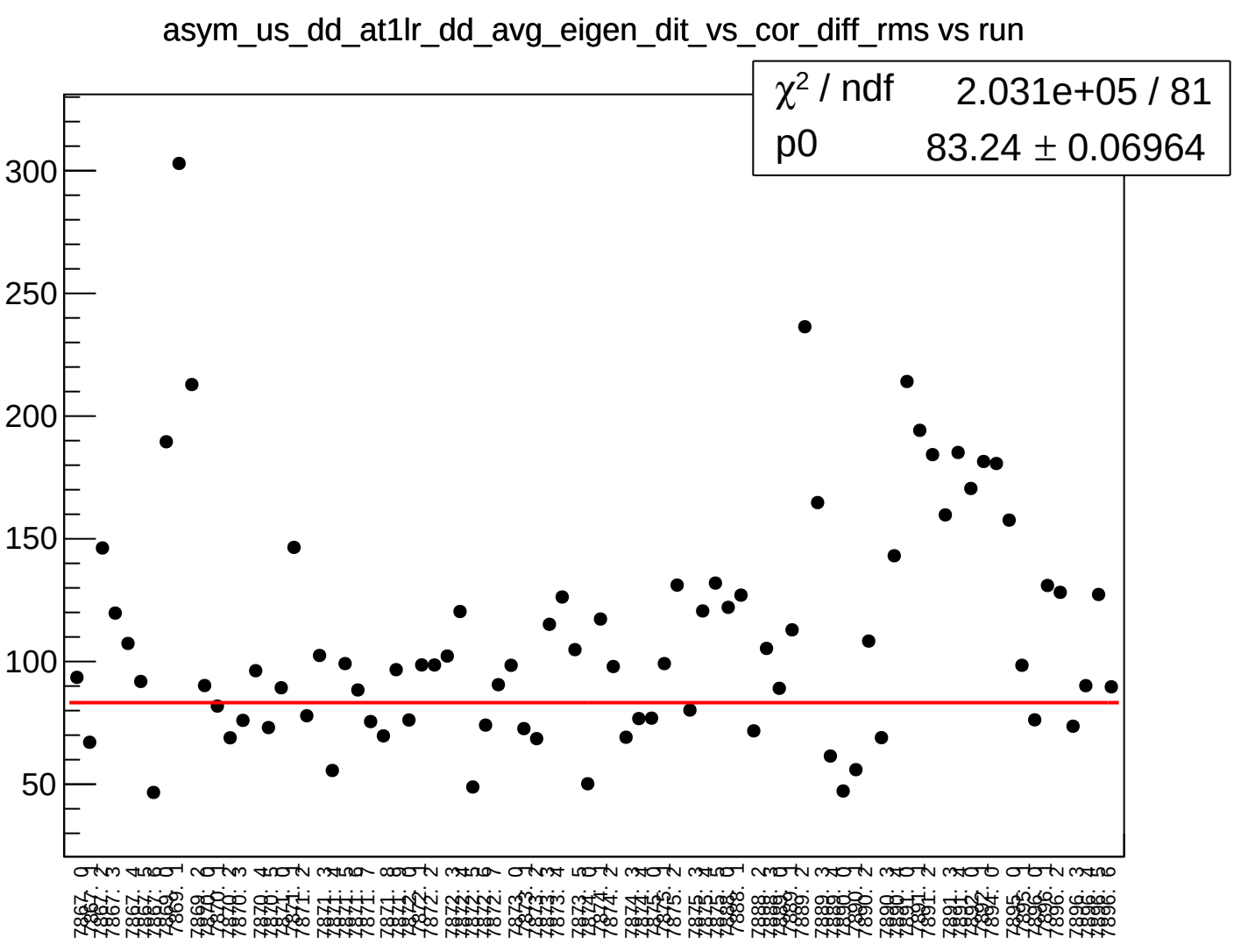

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.031e+05 / 81
p0 83.25 ± 0.06964
300
250
200
150
100
50

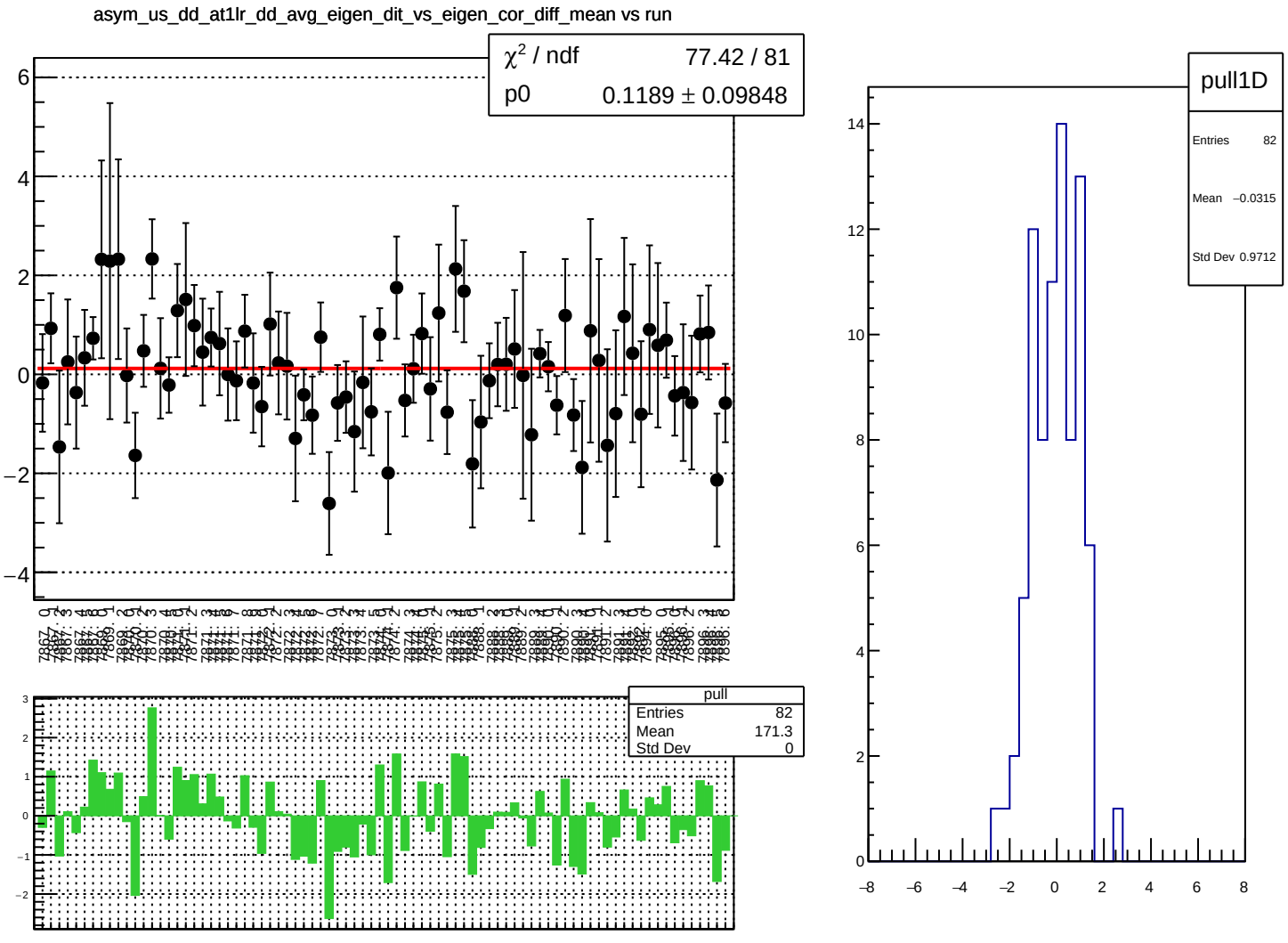

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.61 / 81
p0 −4.255e−06 ± 7.624e−06
pull
Entries 82
Mean −117.2
Std Dev 0
pull1D
Entries 82
Mean −0.01415
Std Dev 0.9473

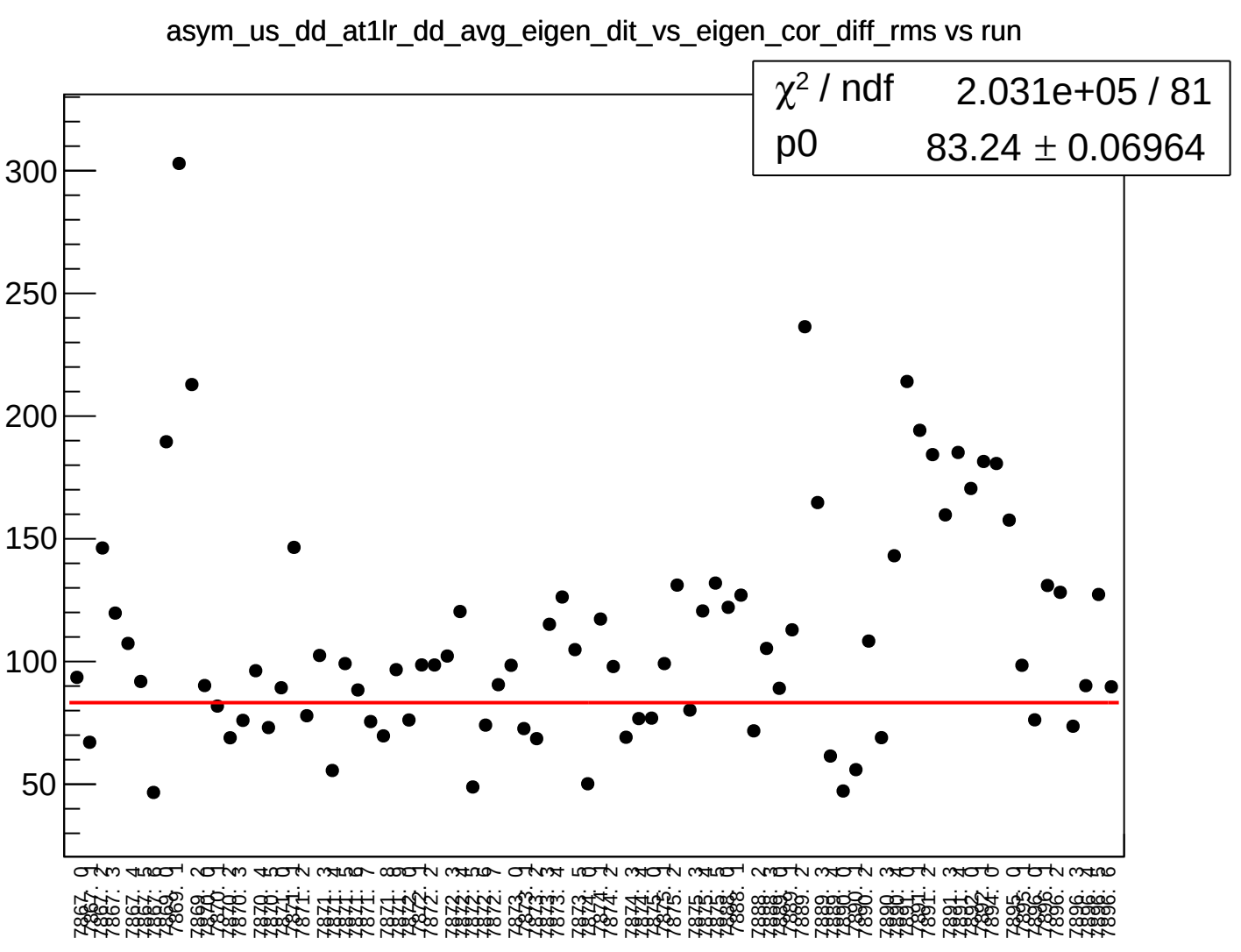

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.061e+05 / 81
p0 0.006659 ± 5.391e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

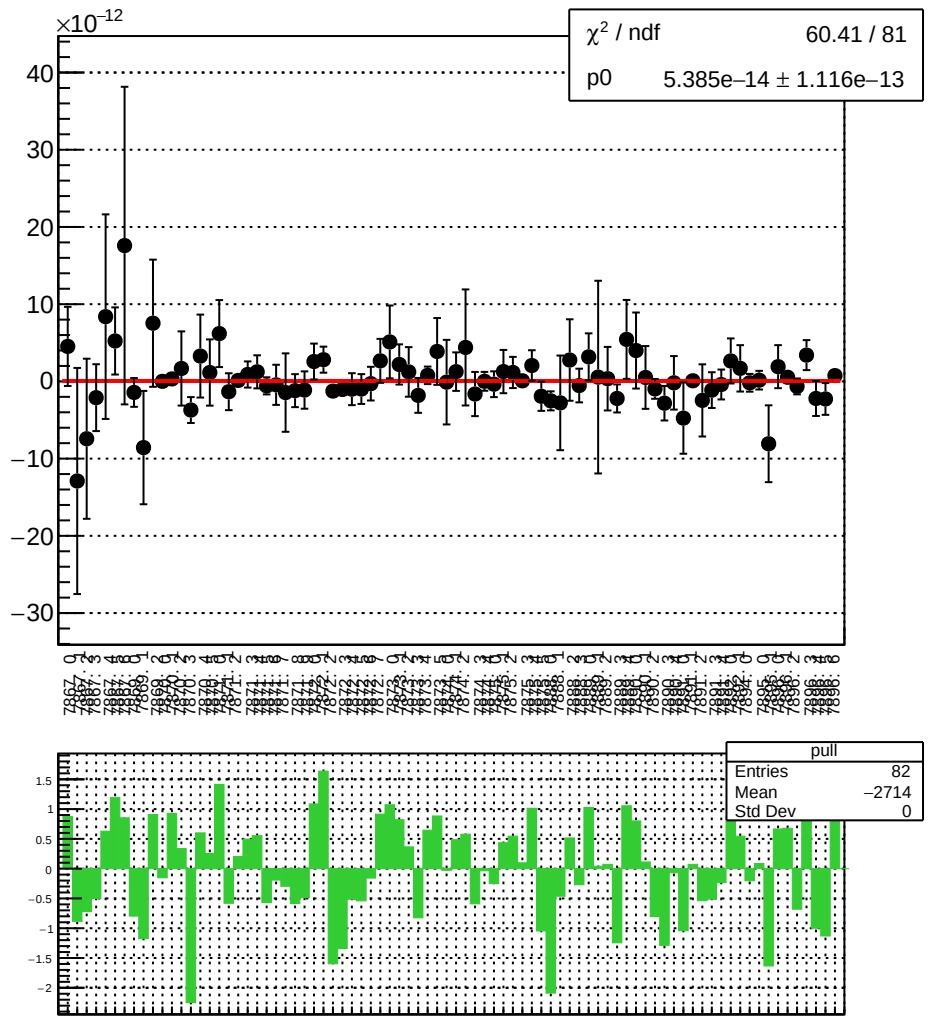

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 0.1189 ± 0.09848
pull
Entries 82
Mean 171.3
Std Dev 0

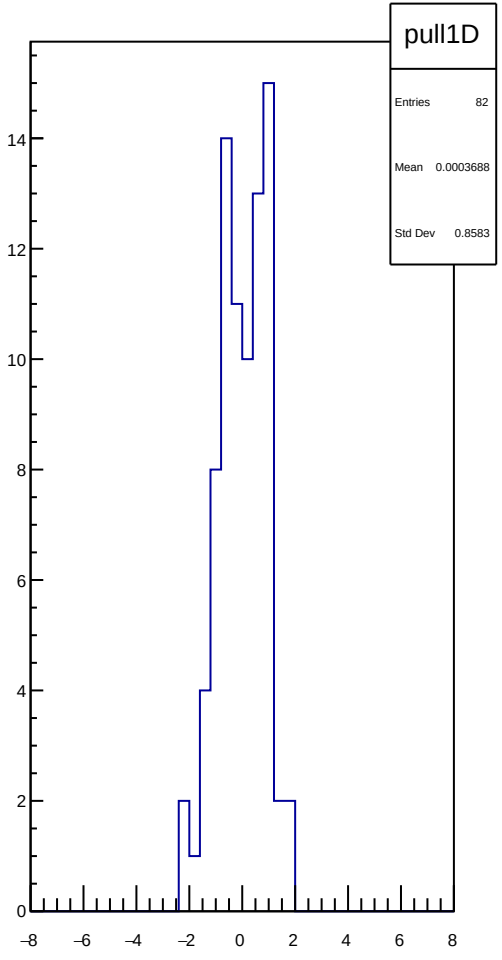

pull1D
Entries 82
Mean −0.0315
Std Dev 0.9712

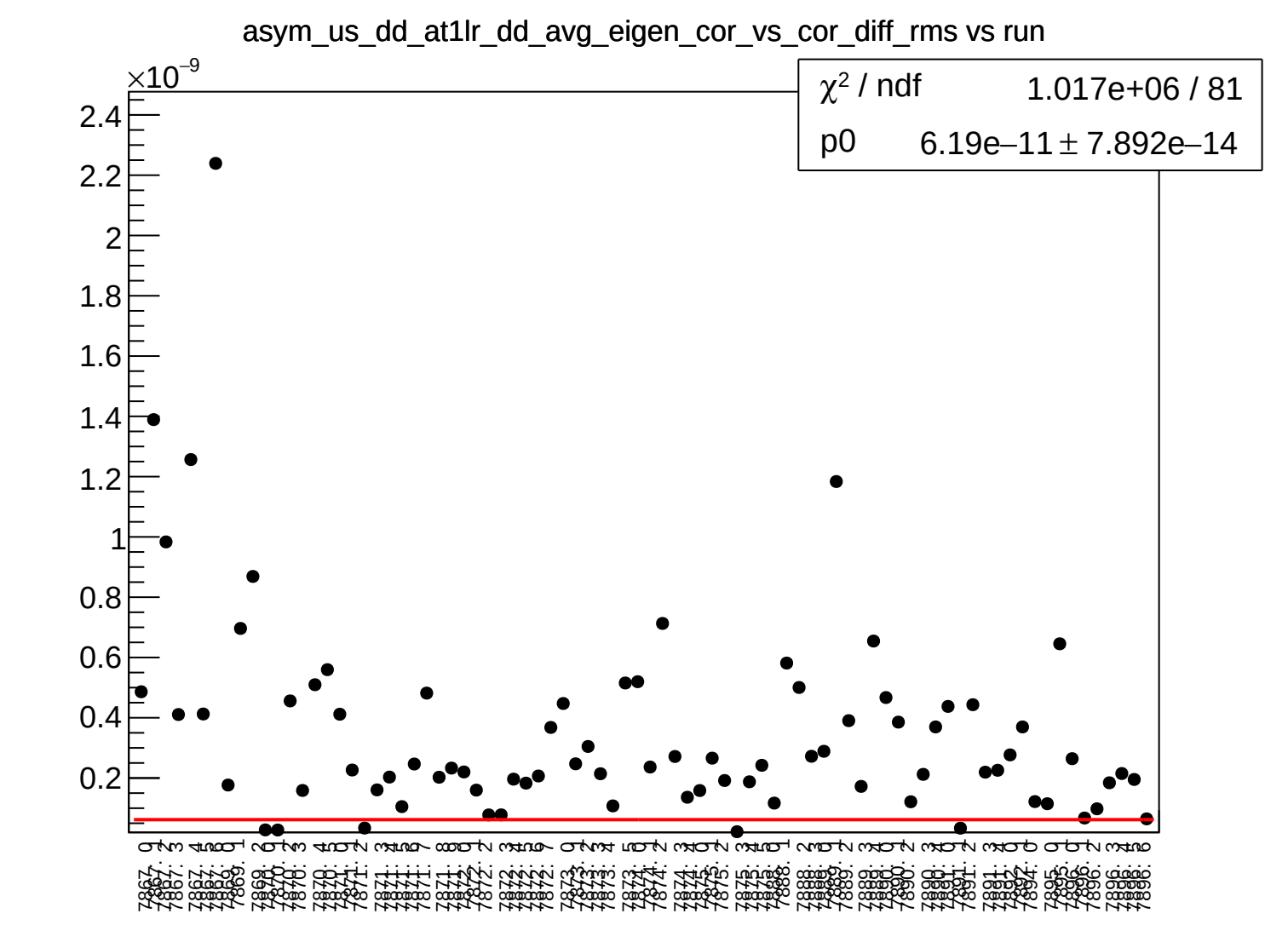

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.031e+05 / 81
p0 83.24 ± 0.06964
300
250
200
150
100
50

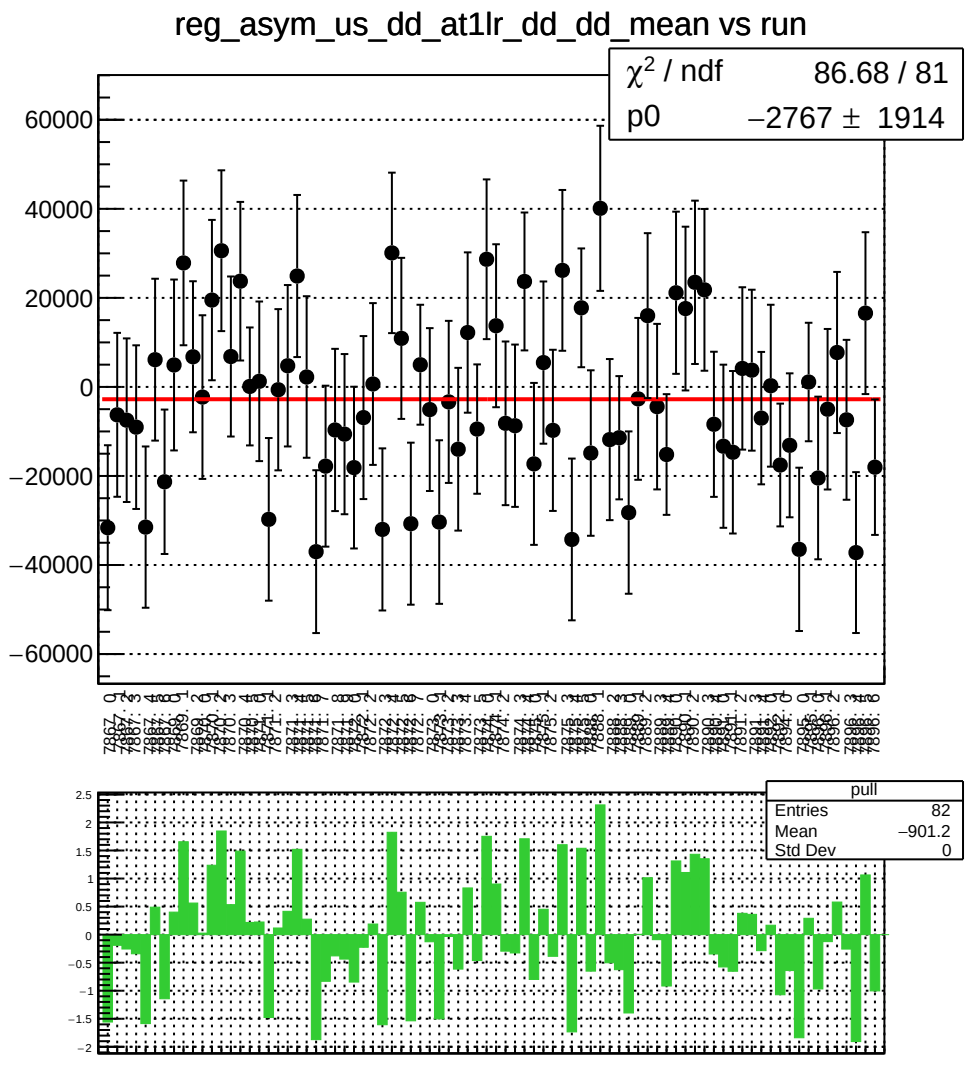

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.42 / 81
p0 0.1189 ± 0.09848
pull
Entries 82
Mean 171.3
Std Dev 0
pull1D
Entries 82
Mean −0.0315
Std Dev 0.9712

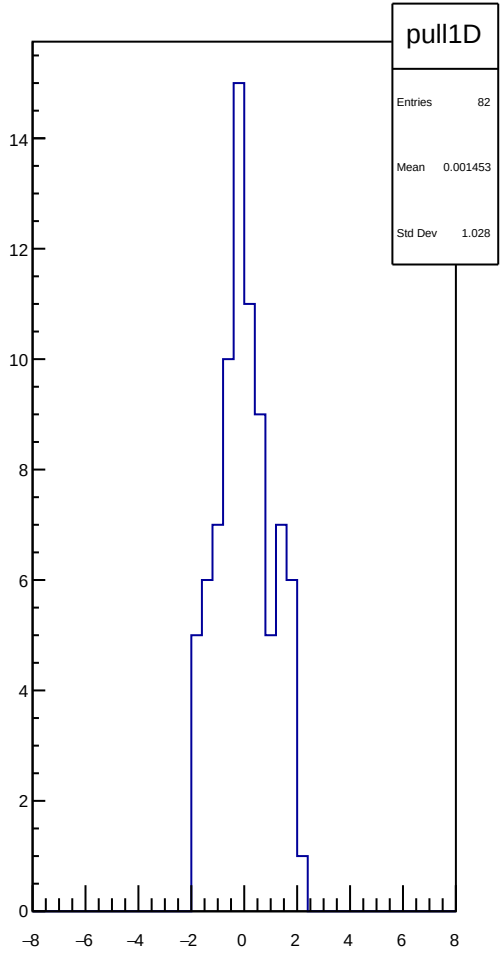

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.031e+05 / 81
p0 83.24 ± 0.06964
300
250
200
150
100
50

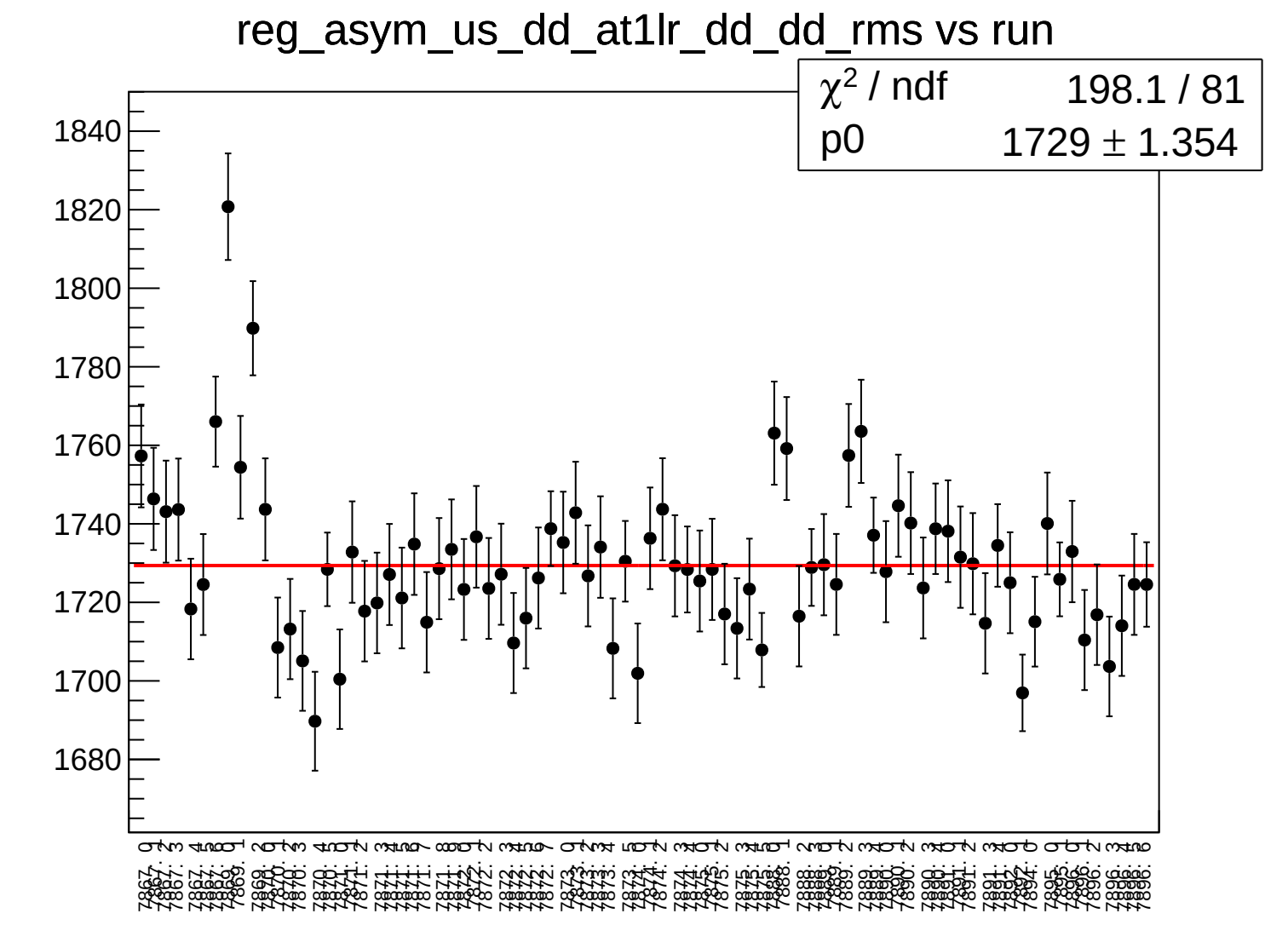

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.41 / 81
p0 5.385e−14 ± 1.116e−13
pull
Entries 82
Mean −2714
Std Dev 0

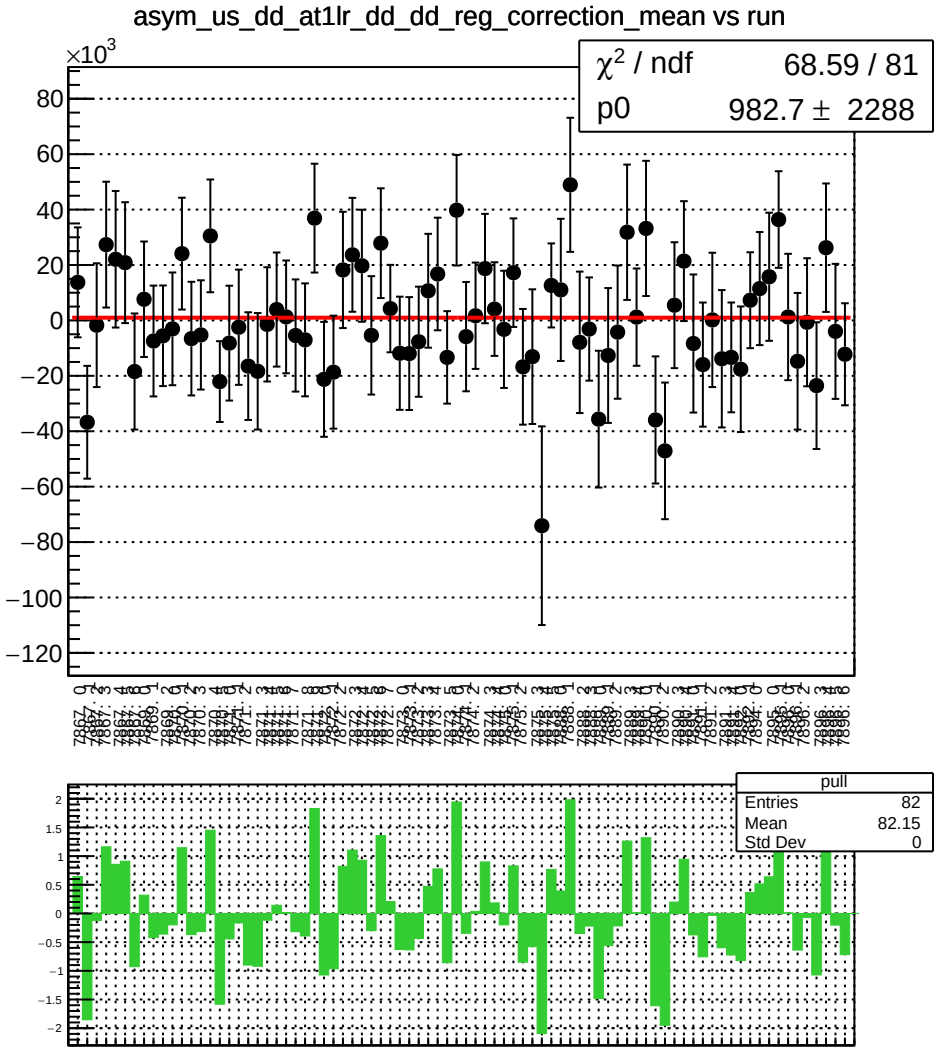

pull1D
Entries 82
Mean 0.0003688
Std Dev 0.8583

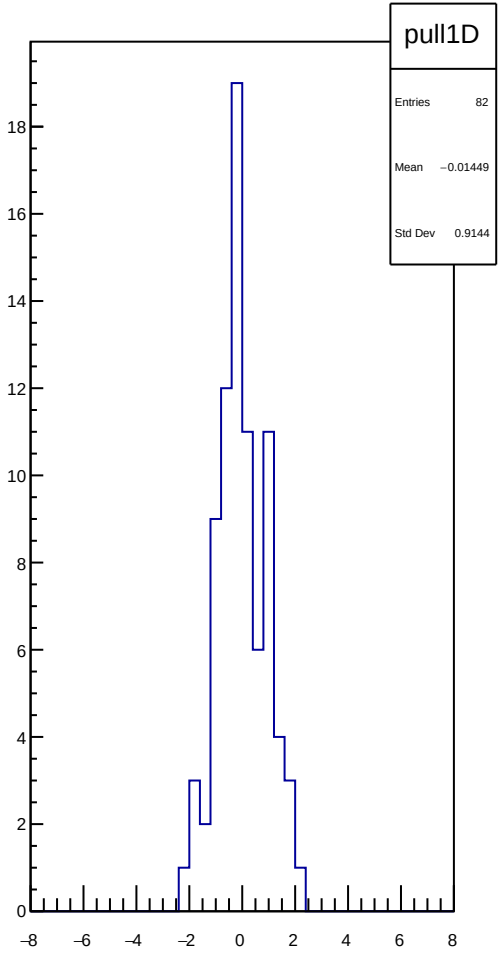

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.017e+06 / 81
p0 6.19e−11 ± 7.892e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

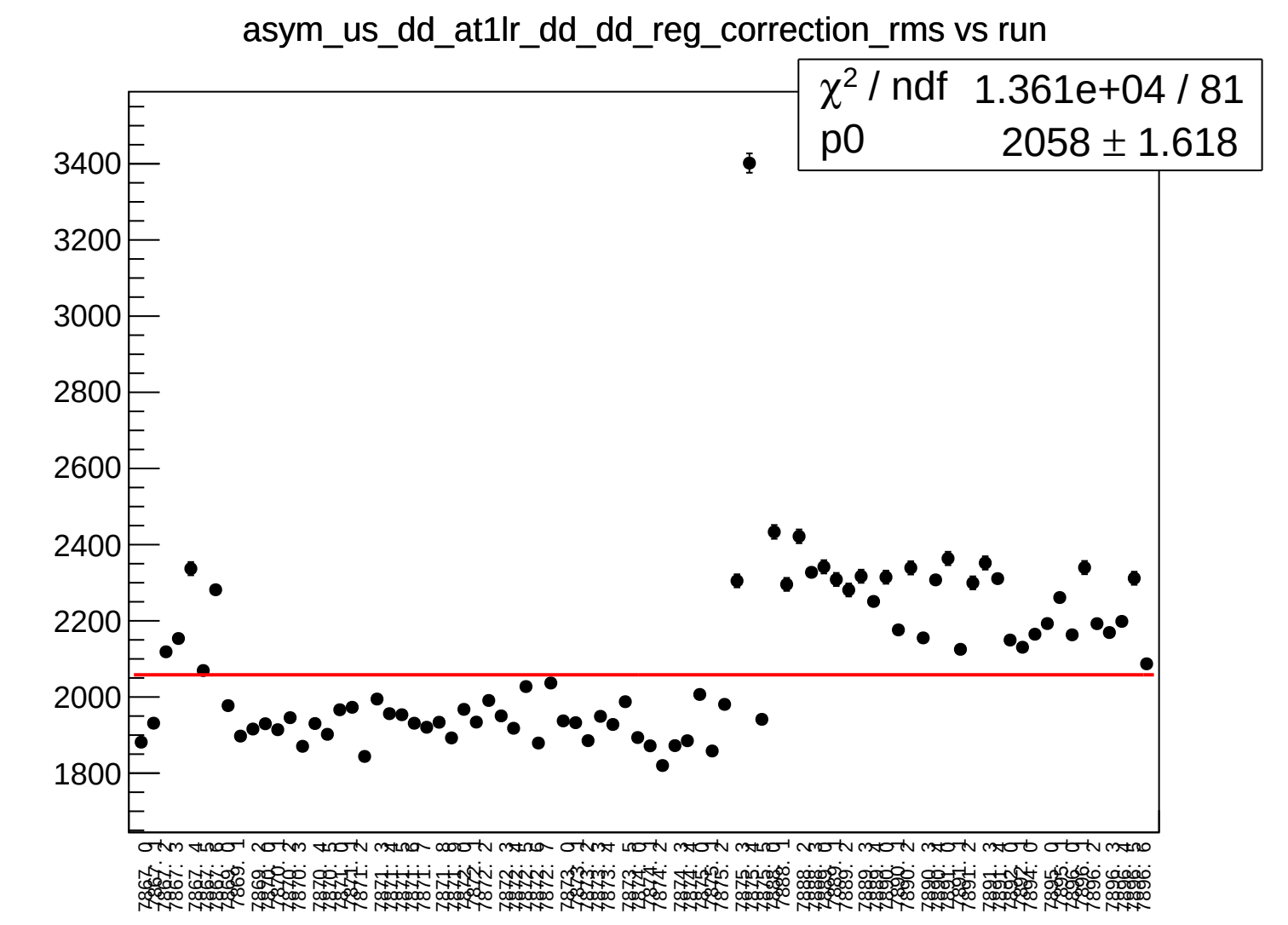

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.68 / 81
p0 −2767 ± 1914
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −901.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

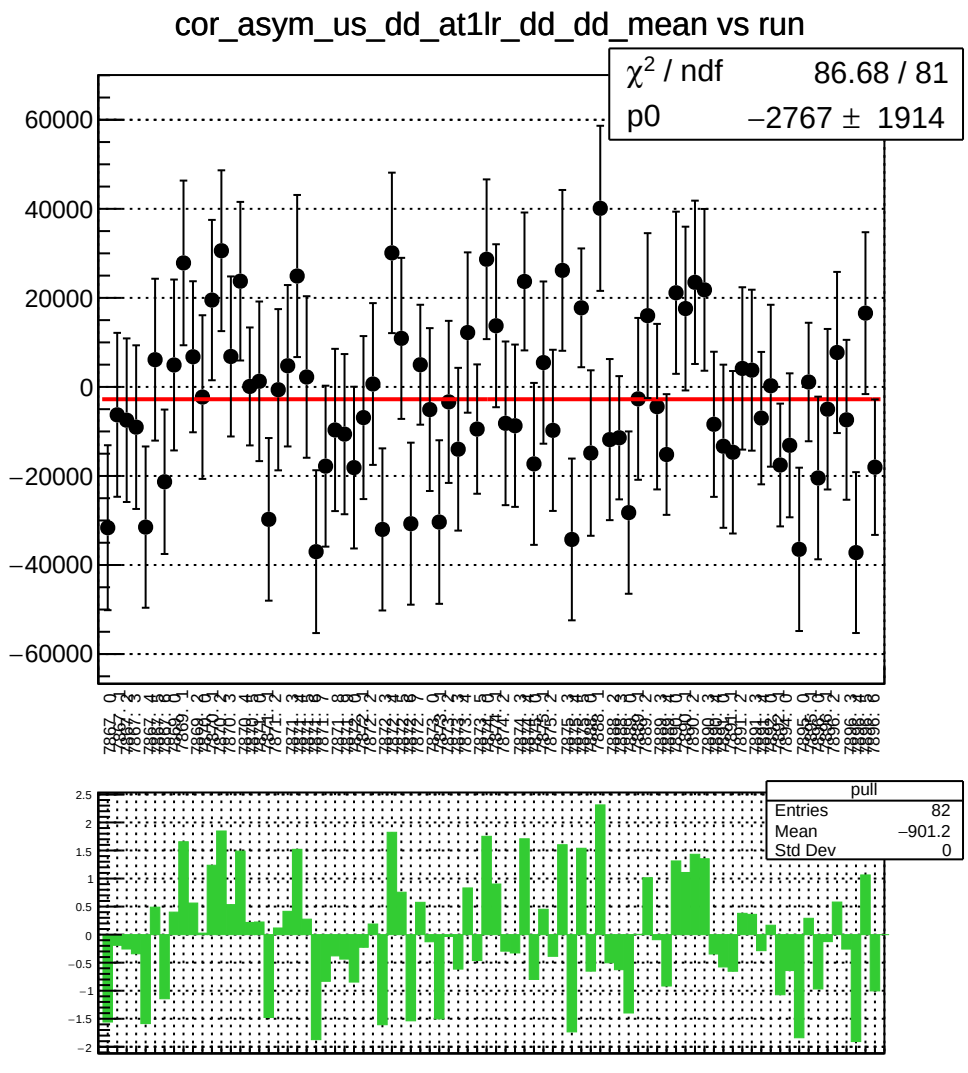

pull1D
Entries 82
Mean 0.001453
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

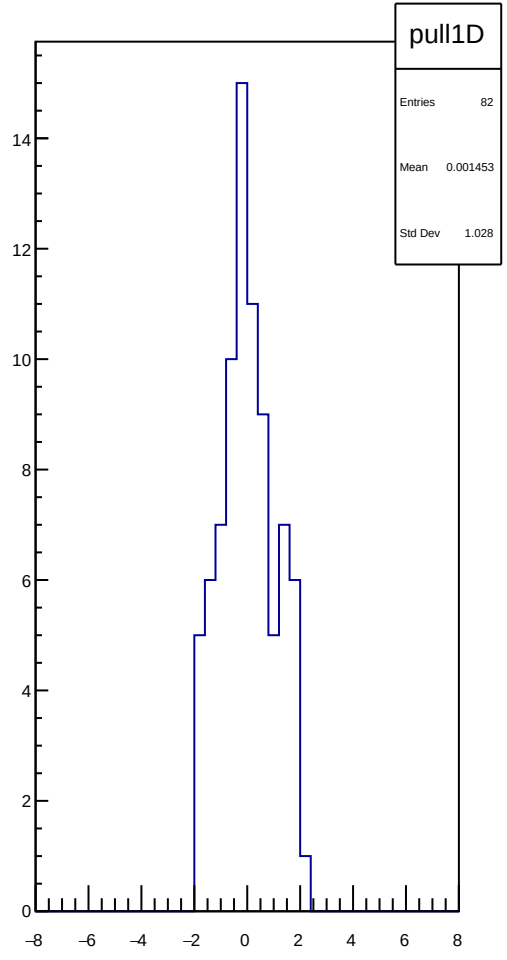

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 198.1 / 81
p0 1729 ± 1.354
1840
1820
1800
1780
1760
1740
1720
1700
1680

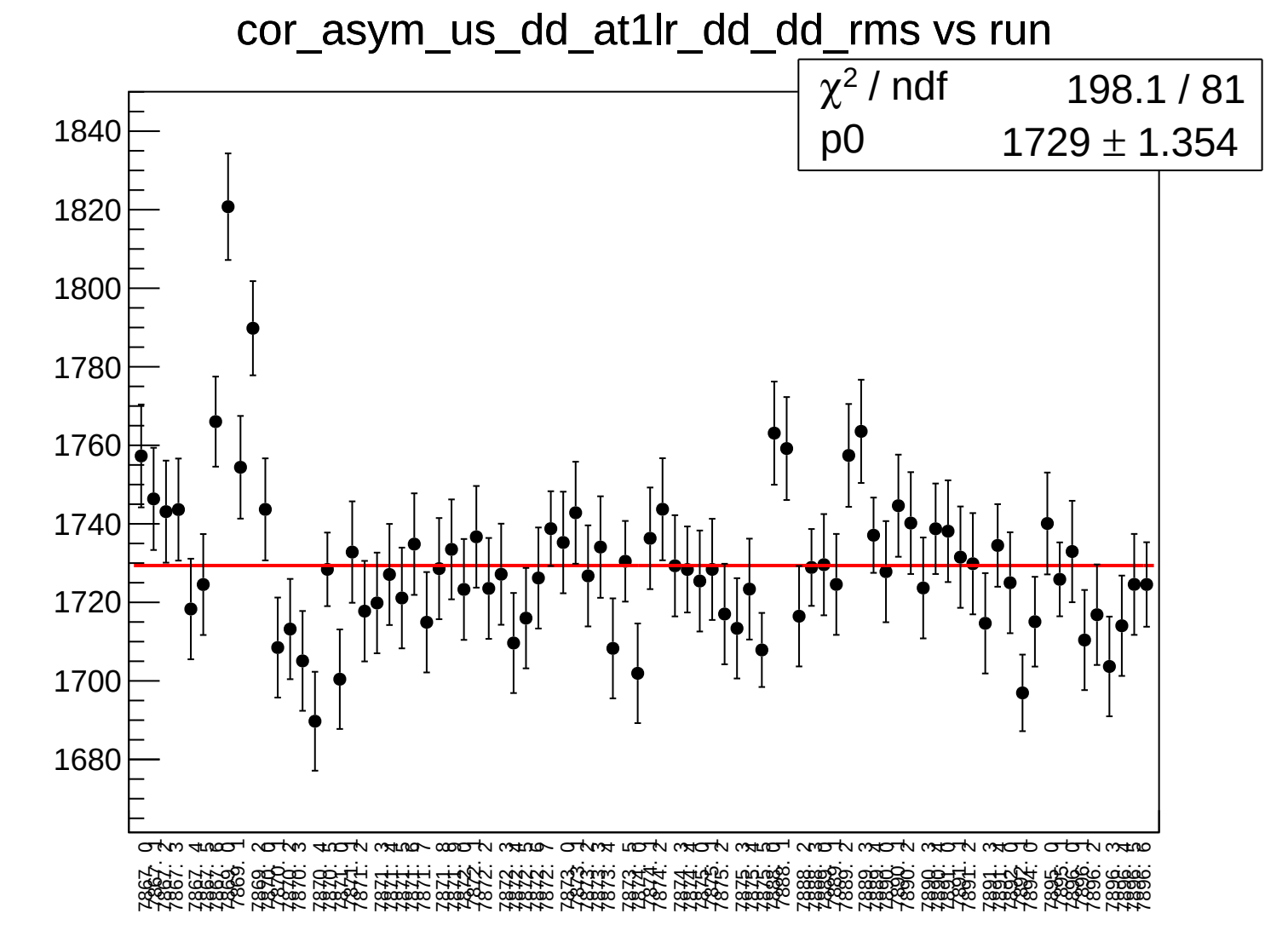

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.59 / 81
p0 982.7 ± 2288
pull
Entries 82
Mean 82.15
Std Dev 0

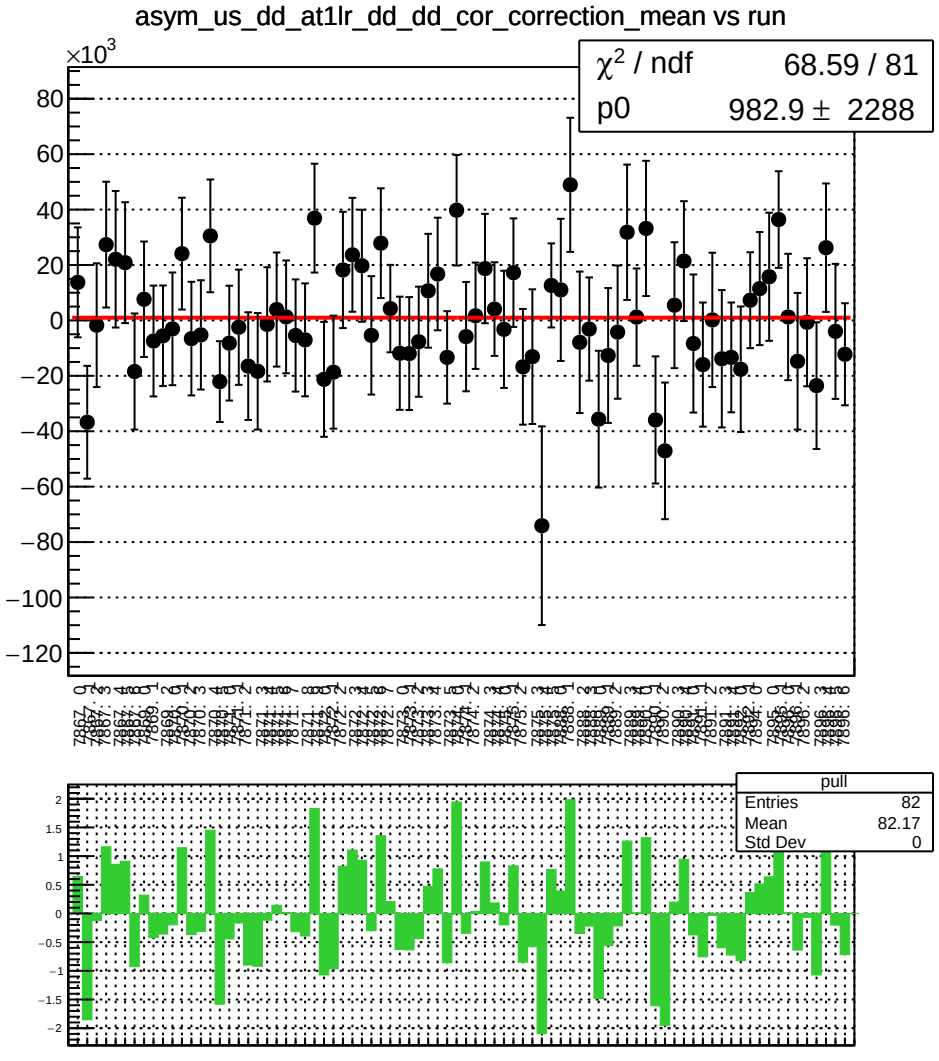

pull1D
Entries 82
Mean −0.01449
Std Dev 0.9144

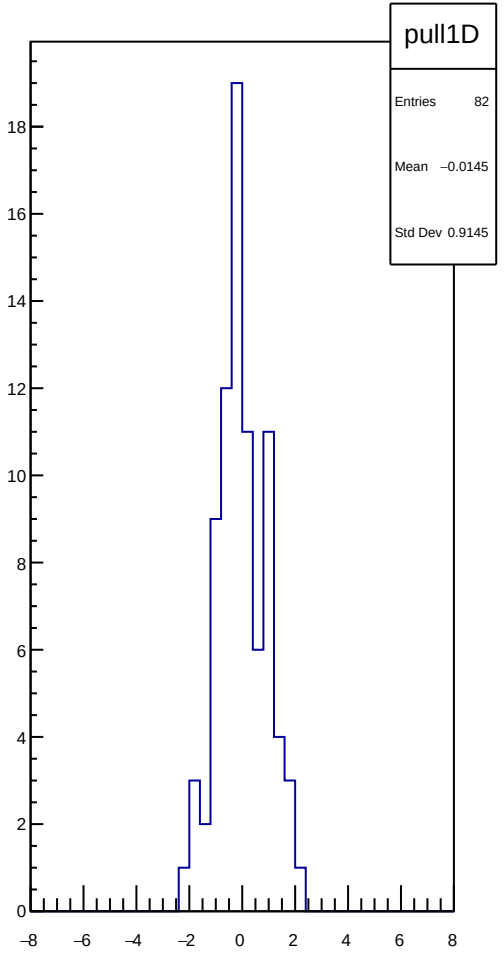

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.361e+04 / 81
p0 2058 ± 1.618
3400
3200
3000
2800
2600
2400
2200
2000
1800

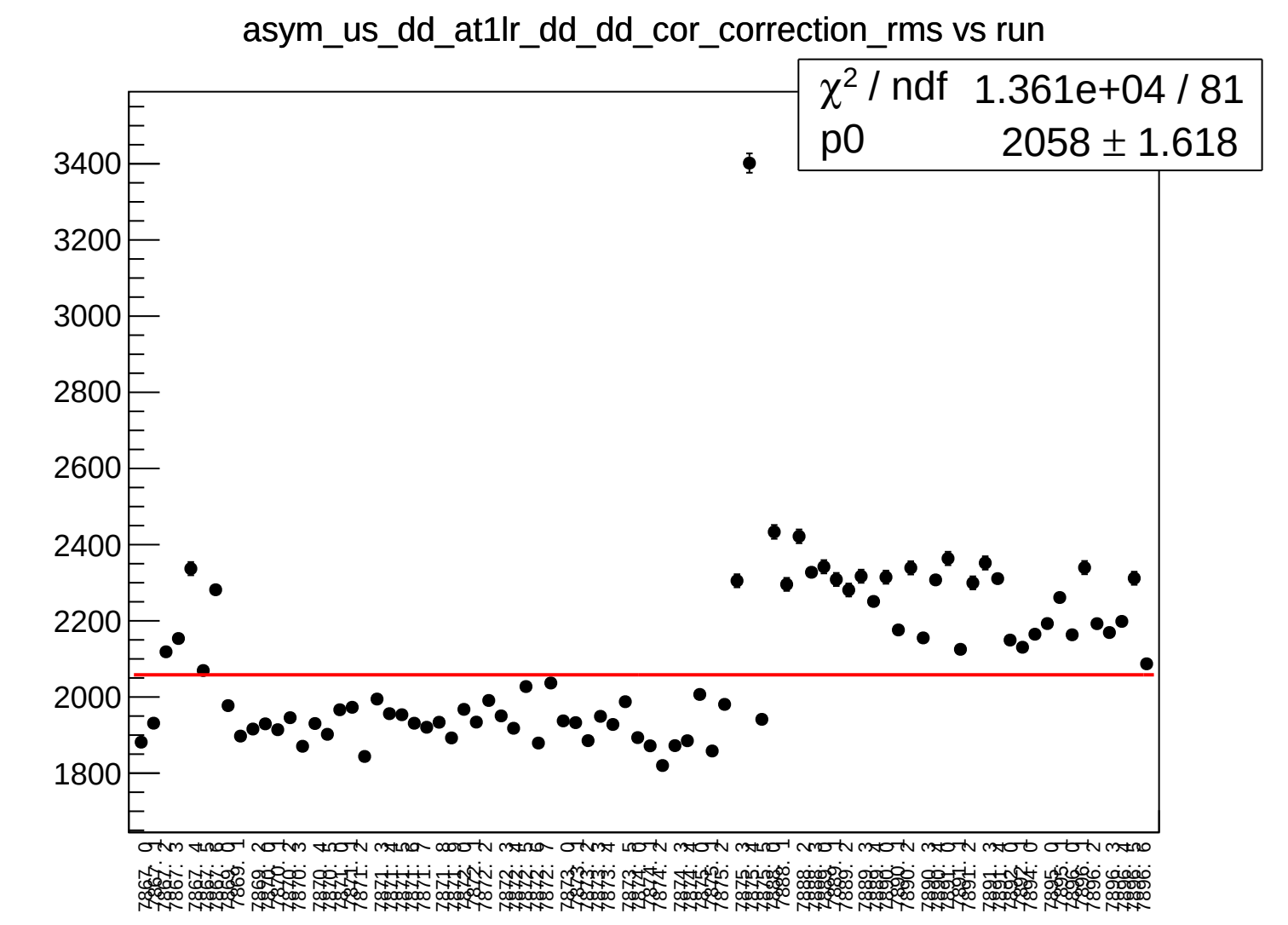

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.68 / 81
p0 −2767 ± 1914
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −901.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

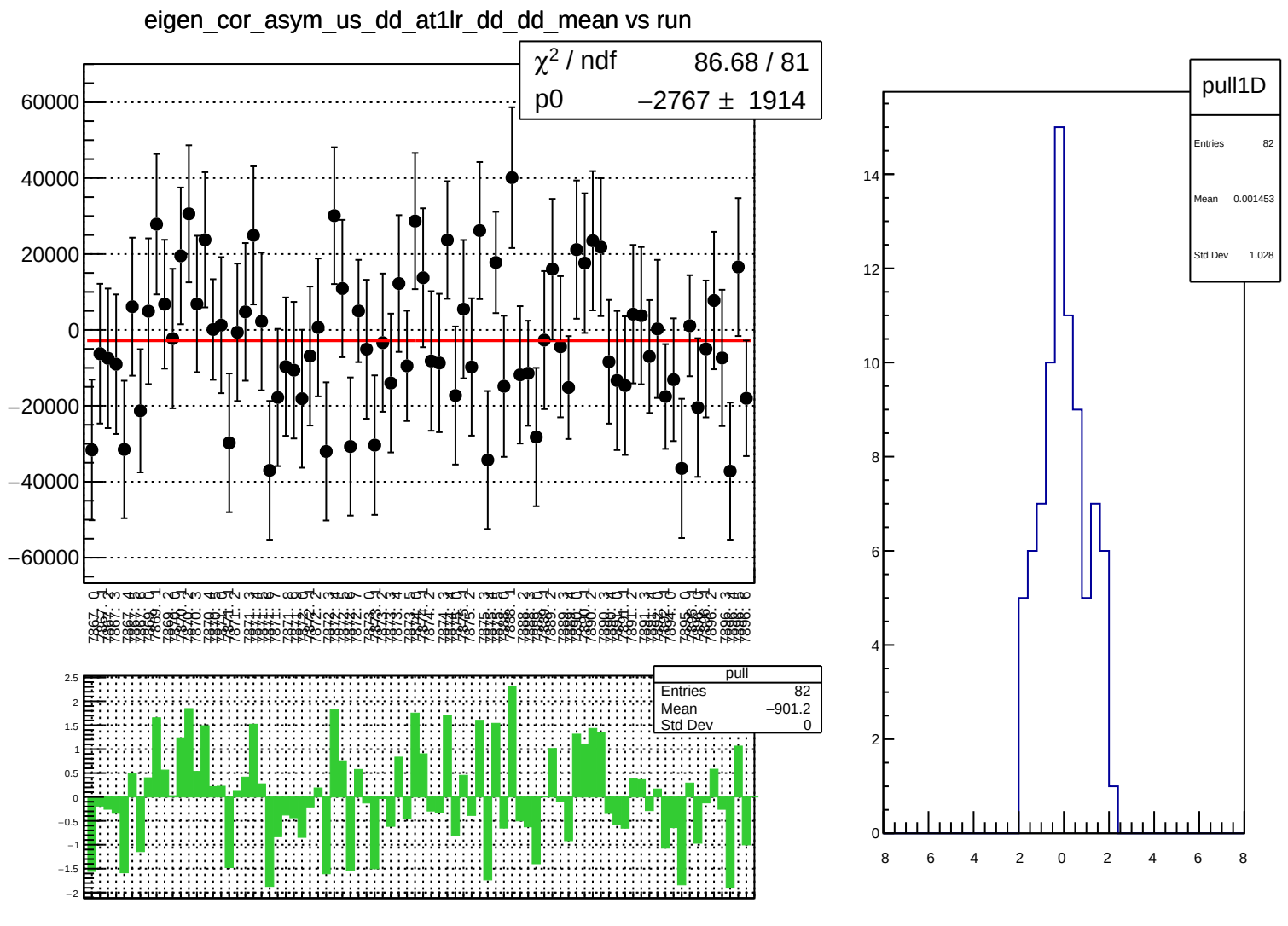

pull1D
Entries 82
Mean 0.001453
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

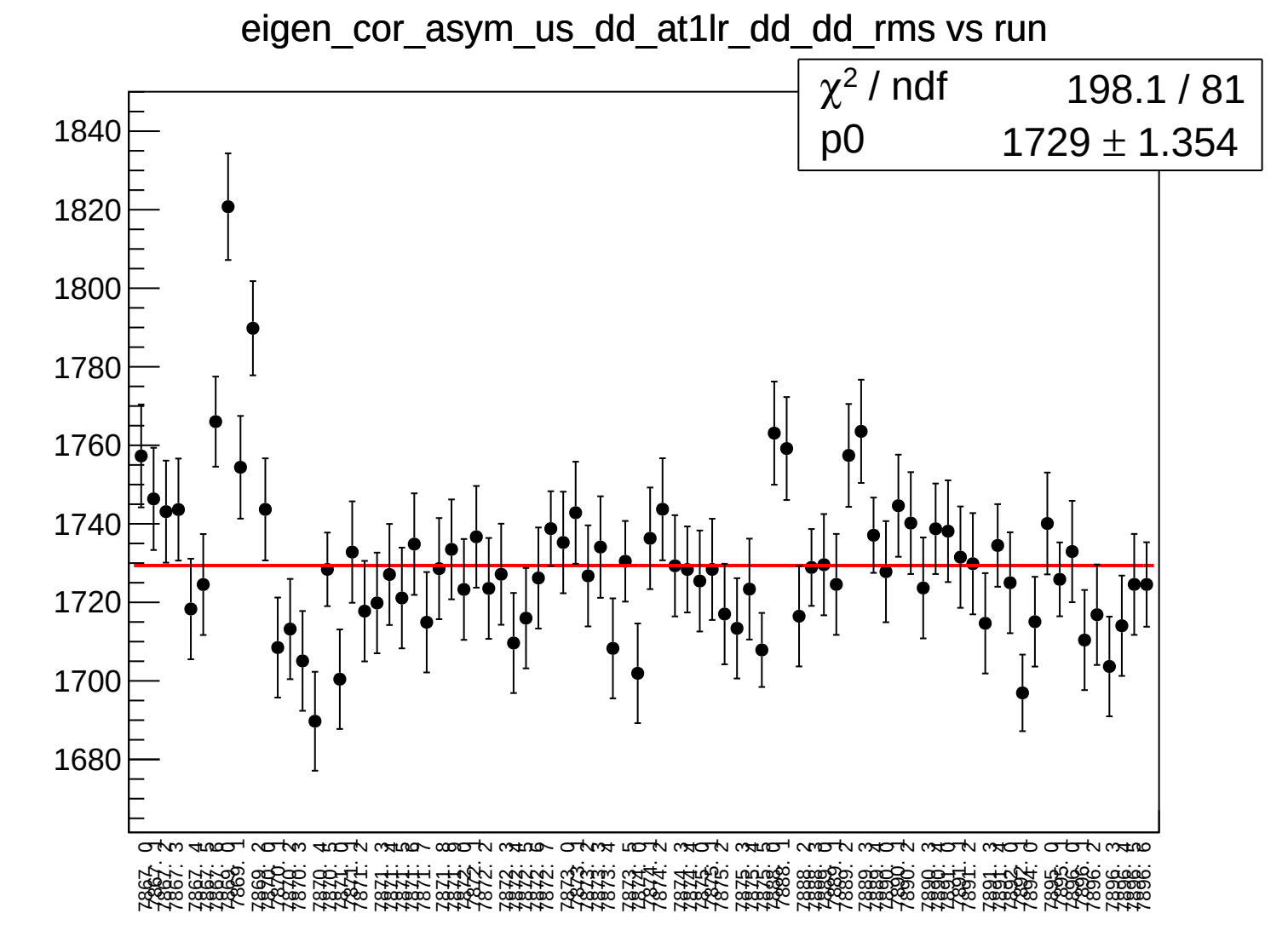

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 198.1 / 81
p0 1729 ± 1.354
1840
1820
1800
1780
1760
1740
1720
1700
1680

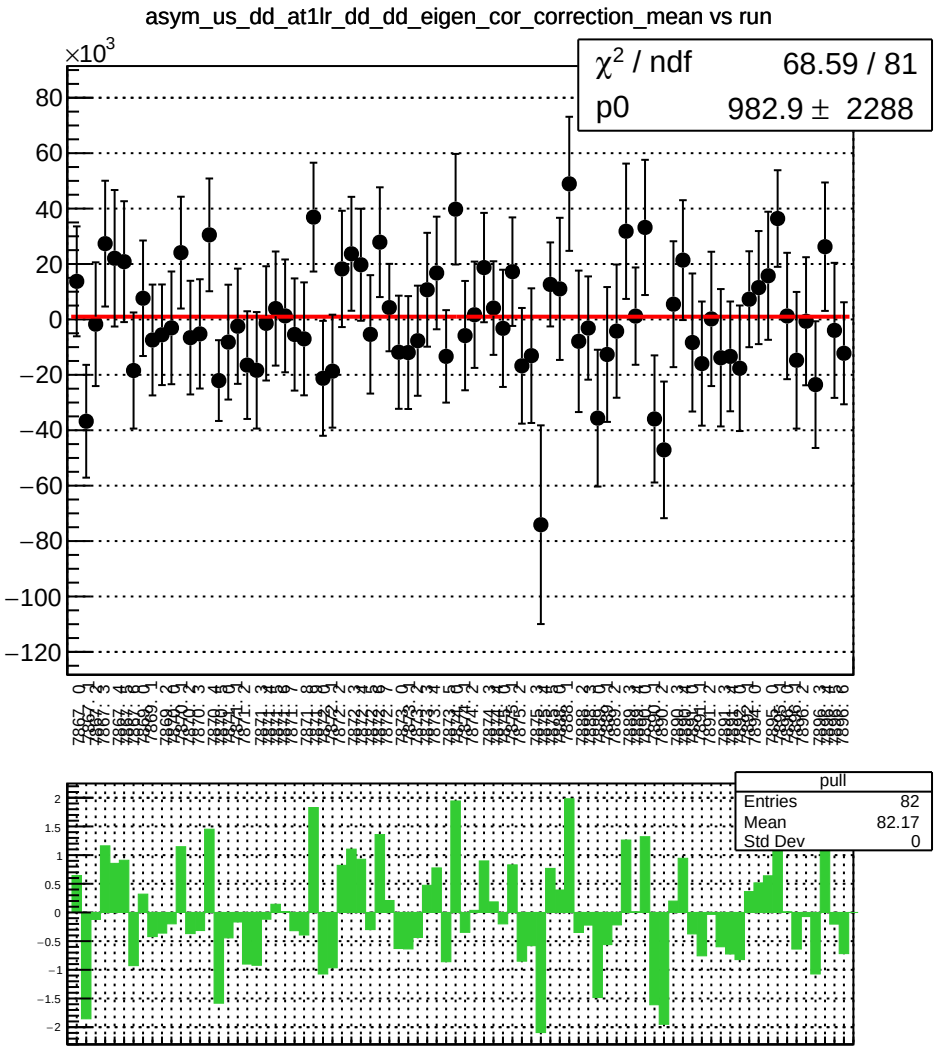

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.59 / 81
p0 982.9 ± 2288
pull
Entries 82
Mean 82.17
Std Dev 0

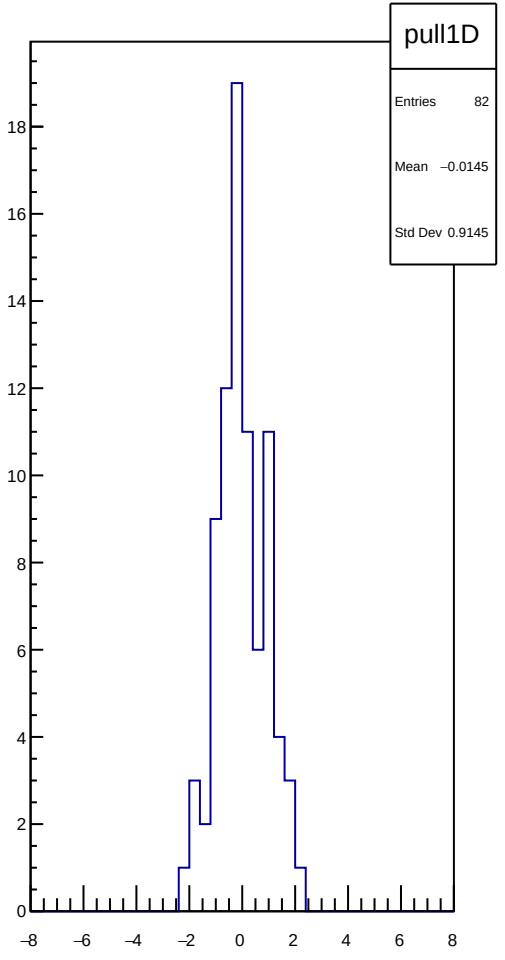

pull1D
Entries 82
Mean −0.0145
Std Dev 0.9145

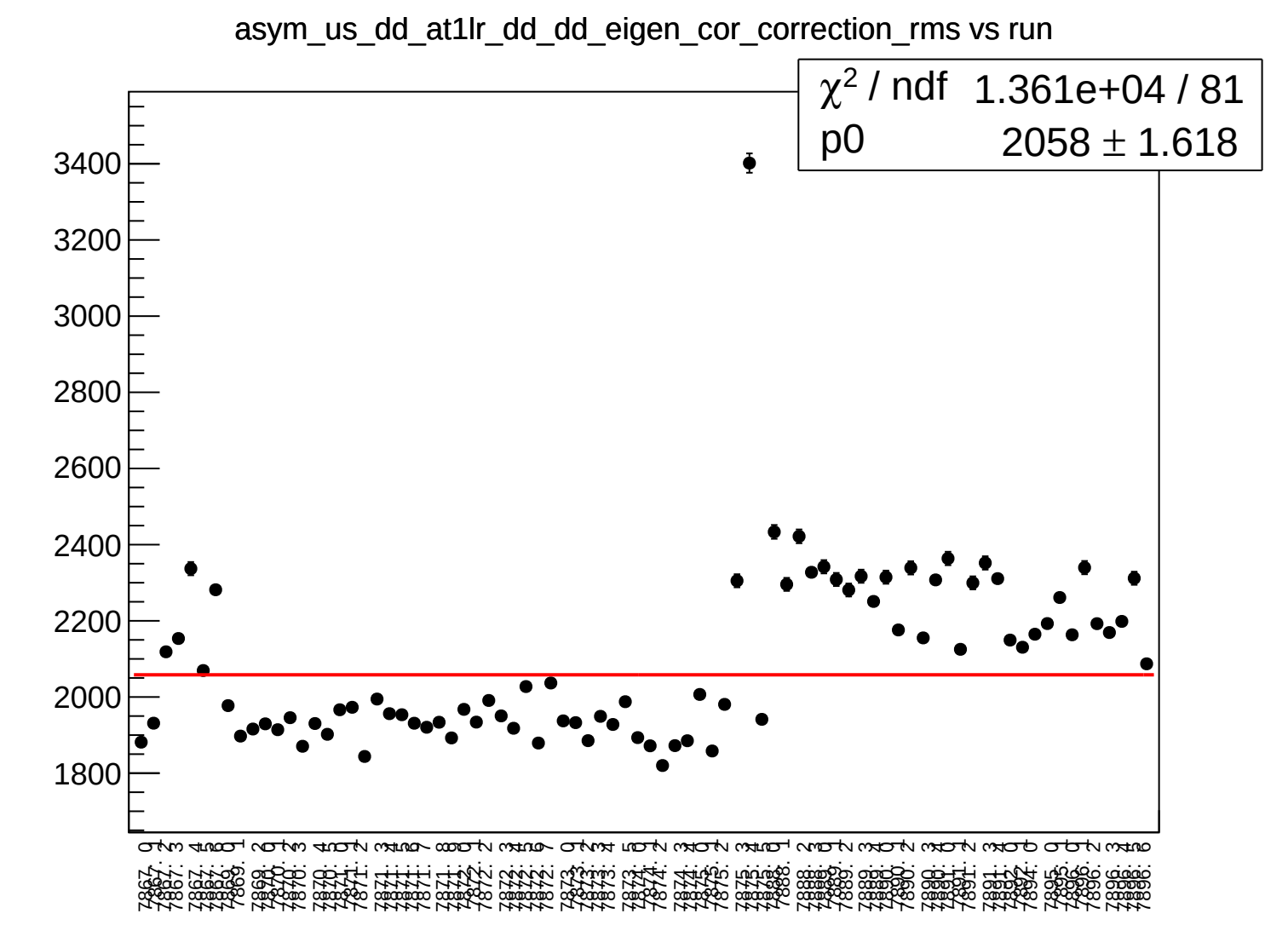

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.361e+04 / 81
p0 2058 ± 1.618
3400
3200
3000
2800
2600
2400
2200
2000
1800

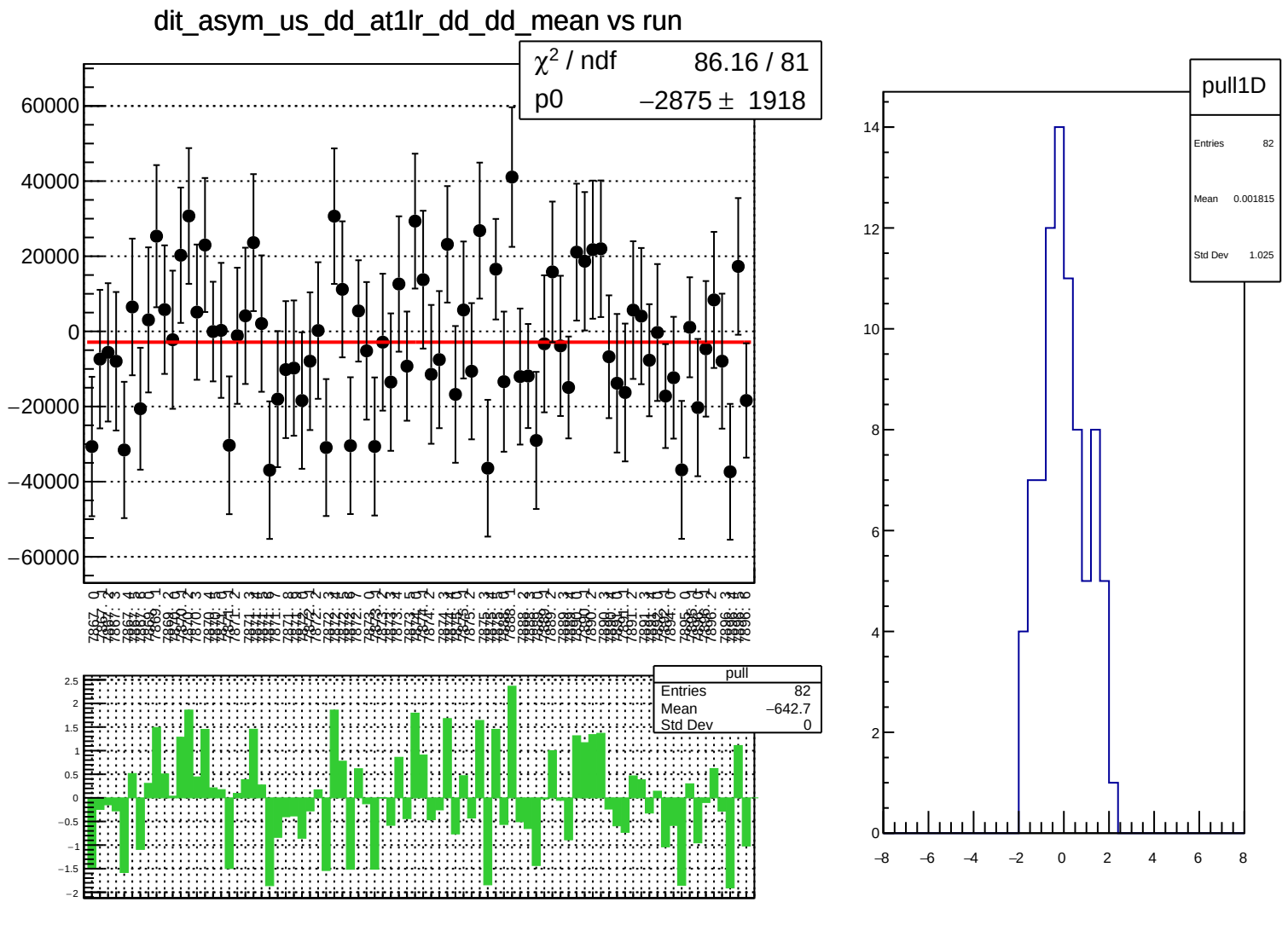

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.68 / 81
p0 −2767 ± 1914
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −901.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.001453
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

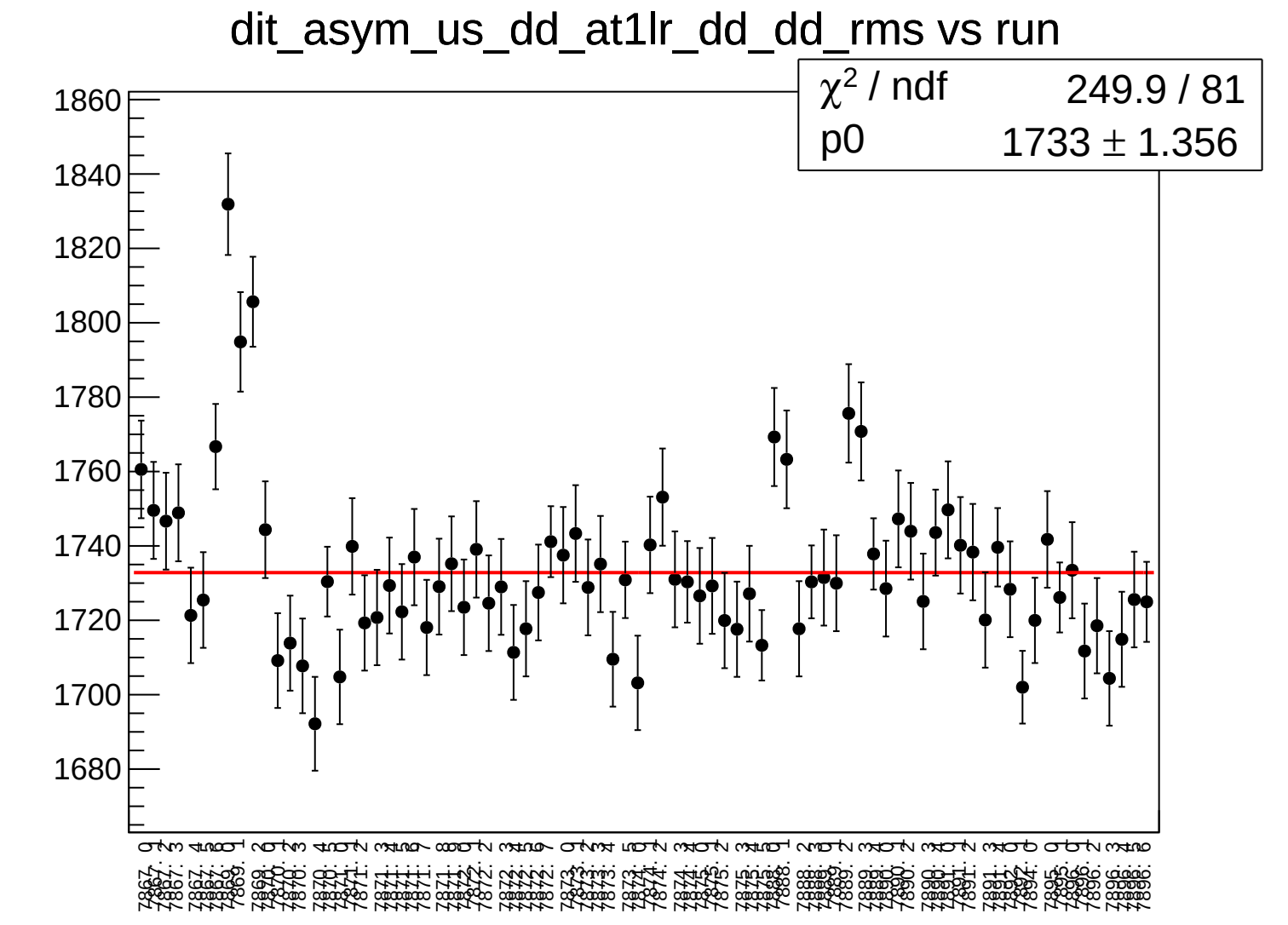

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 198.1 / 81
p0 1729 ± 1.354
1840
1820
1800
1780
1760
1740
1720
1700
1680

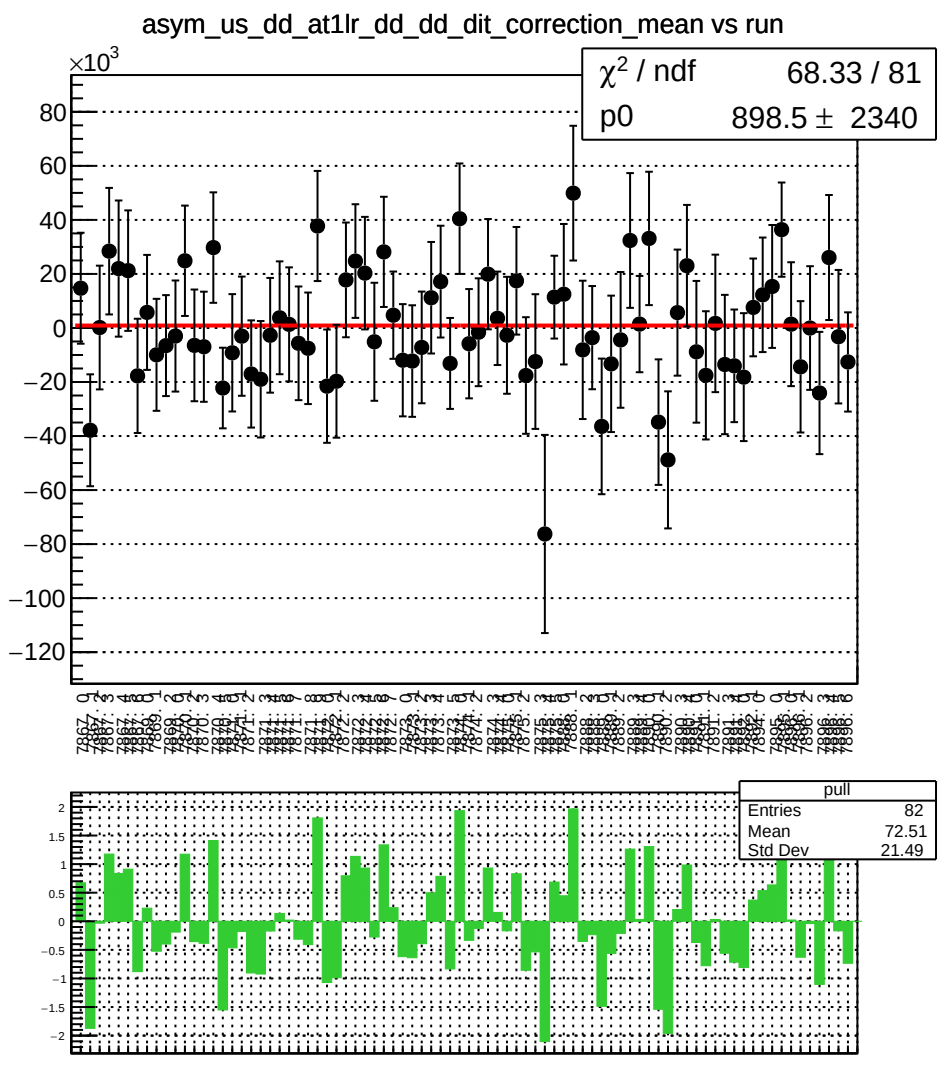

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.59 / 81
p0 982.9 ± 2288
pull
Entries 82
Mean 82.17
Std Dev 0

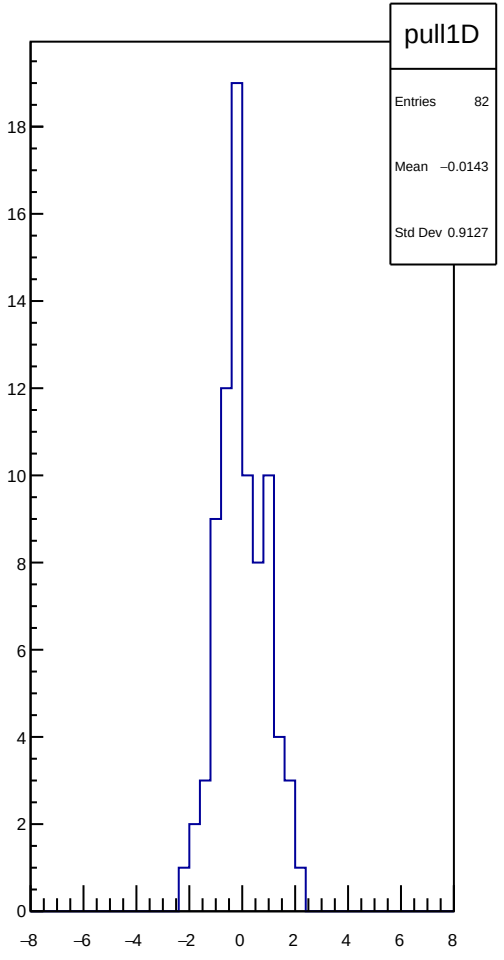

pull1D
Entries 82
Mean −0.0145
Std Dev 0.9145

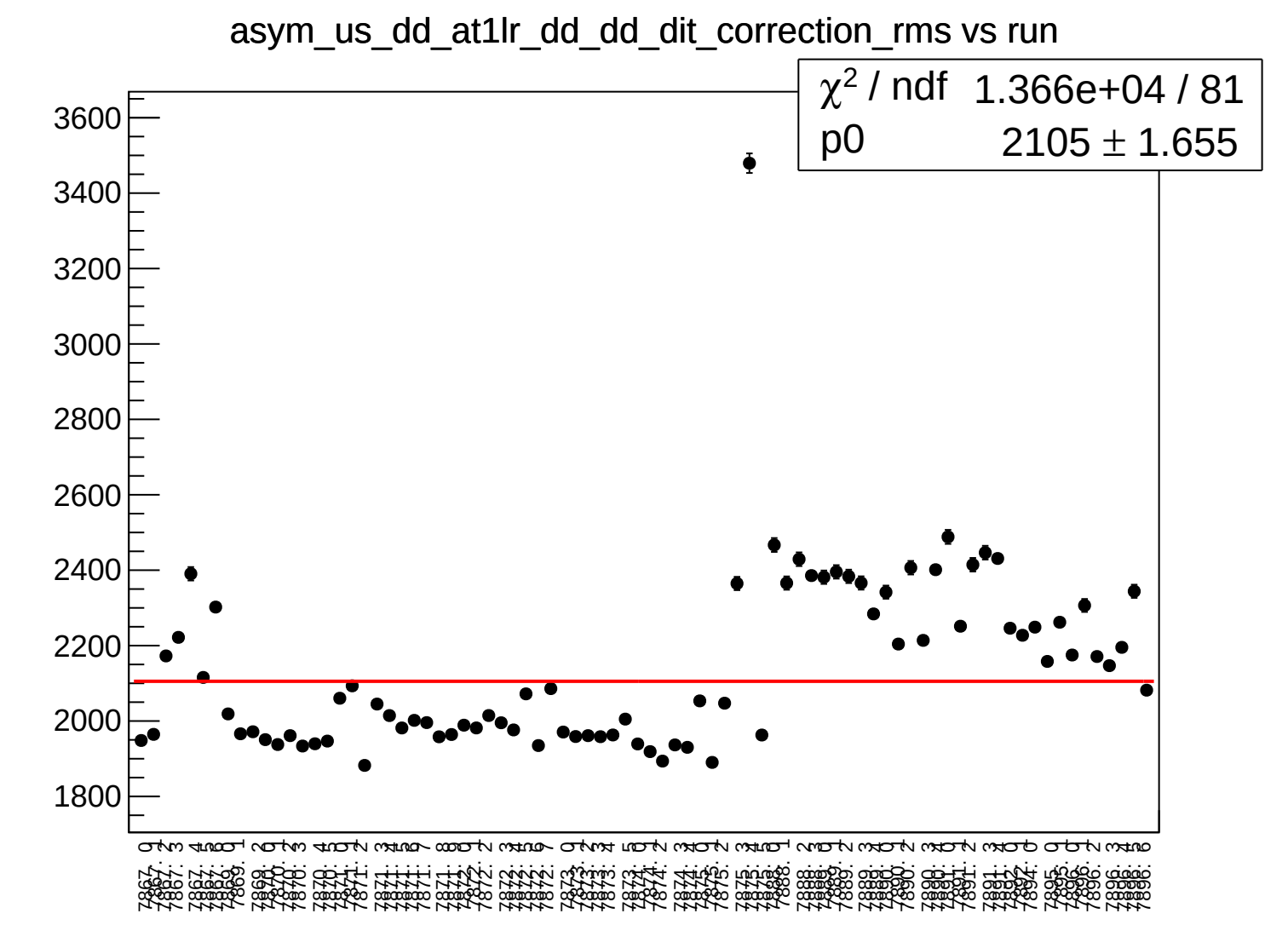

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.361e+04 / 81
p0 2058 ± 1.618
3400
3200
3000
2800
2600
2400
2200
2000
1800

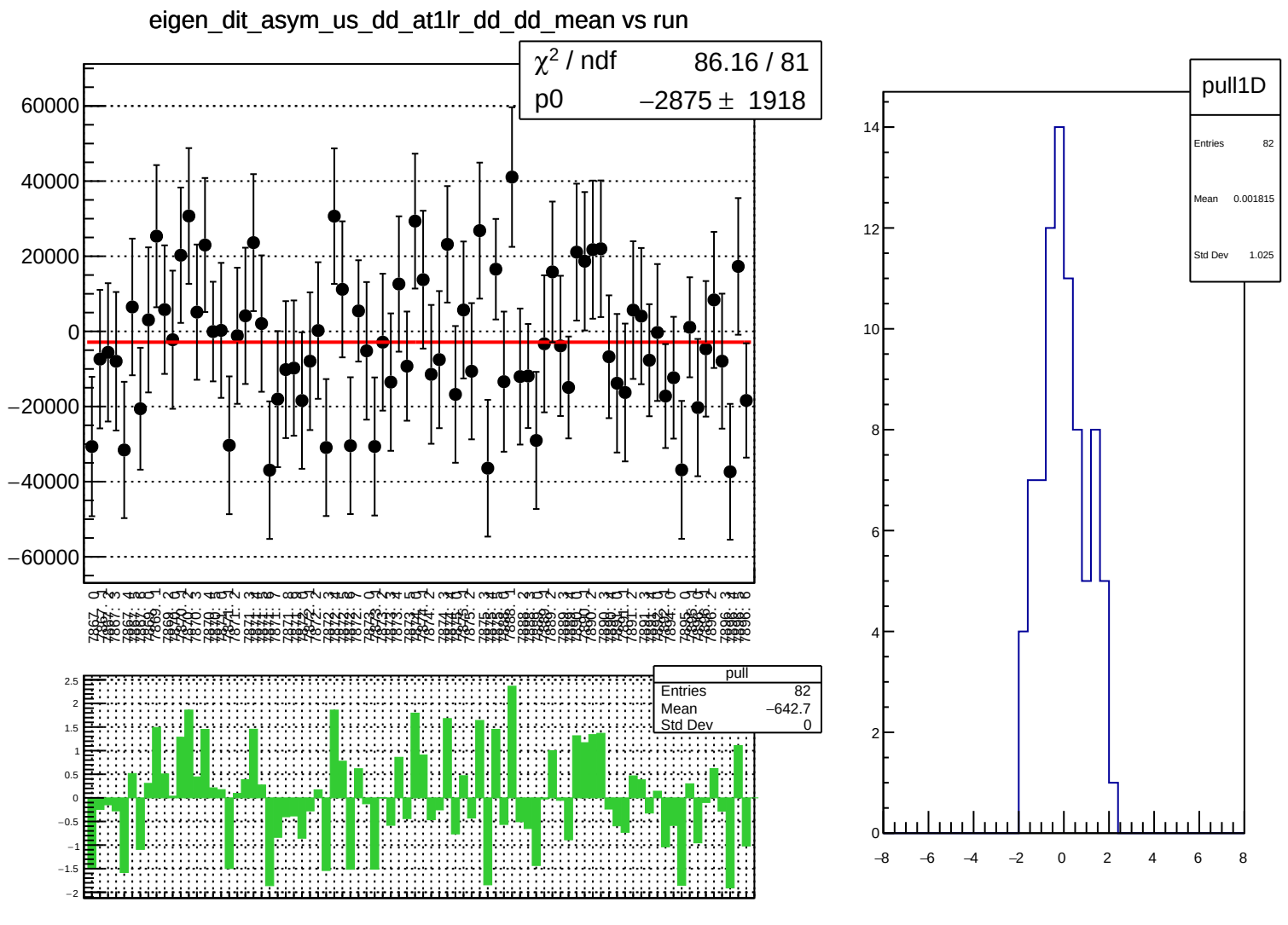

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.16 / 81
p0 −2875 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −642.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.001815
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

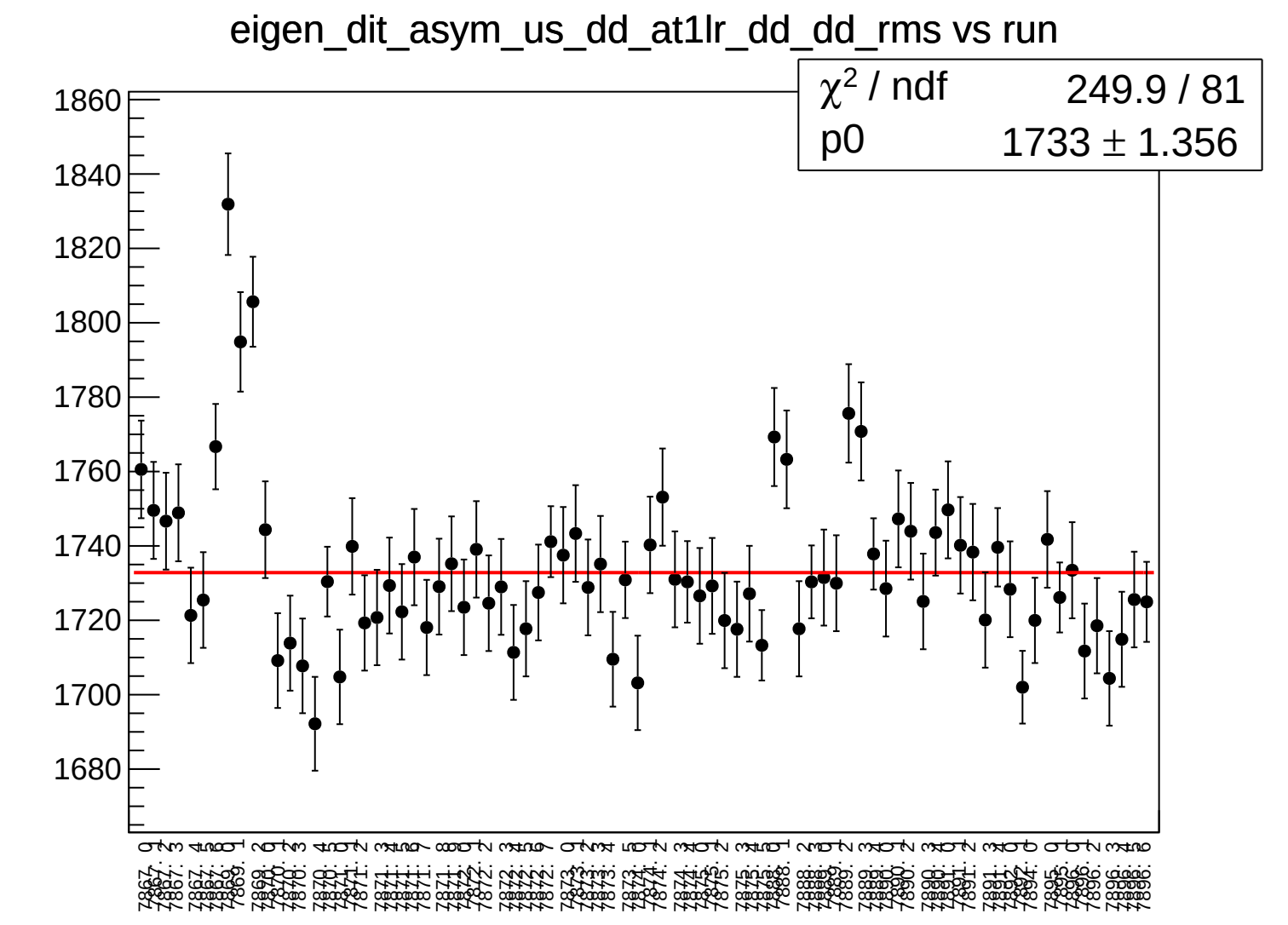

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 249.9 / 81
p0 1733 ± 1.356
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

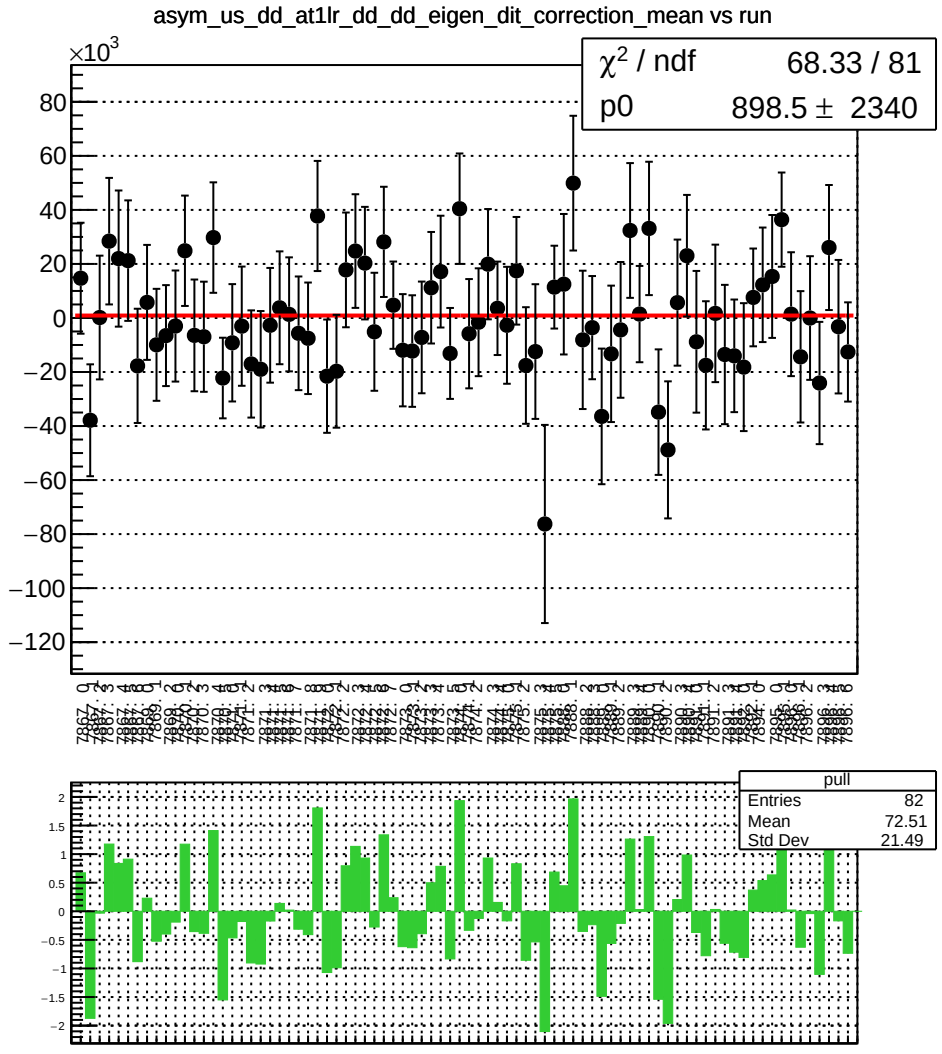

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.33 / 81
p0 898.5 ± 2340
pull
Entries 82
Mean 72.51
Std Dev 21.49

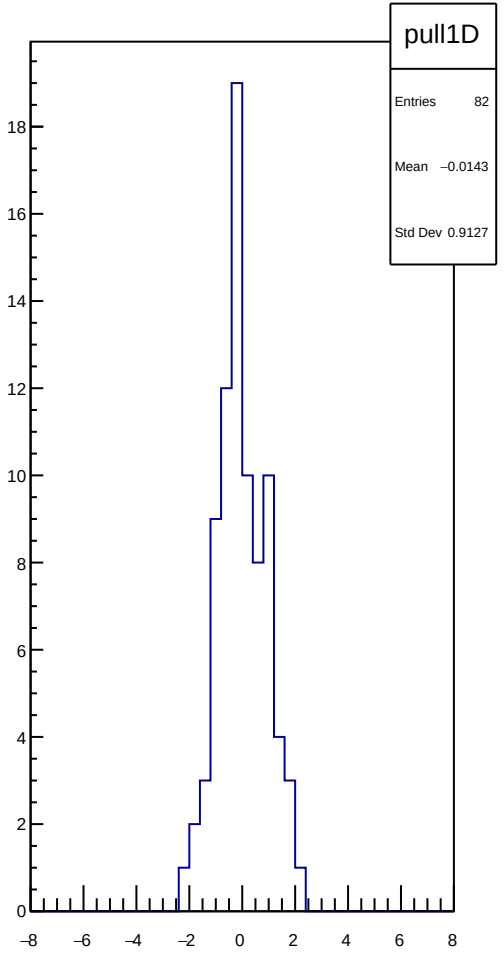

pull1D
Entries 82
Mean −0.0143
Std Dev 0.9127

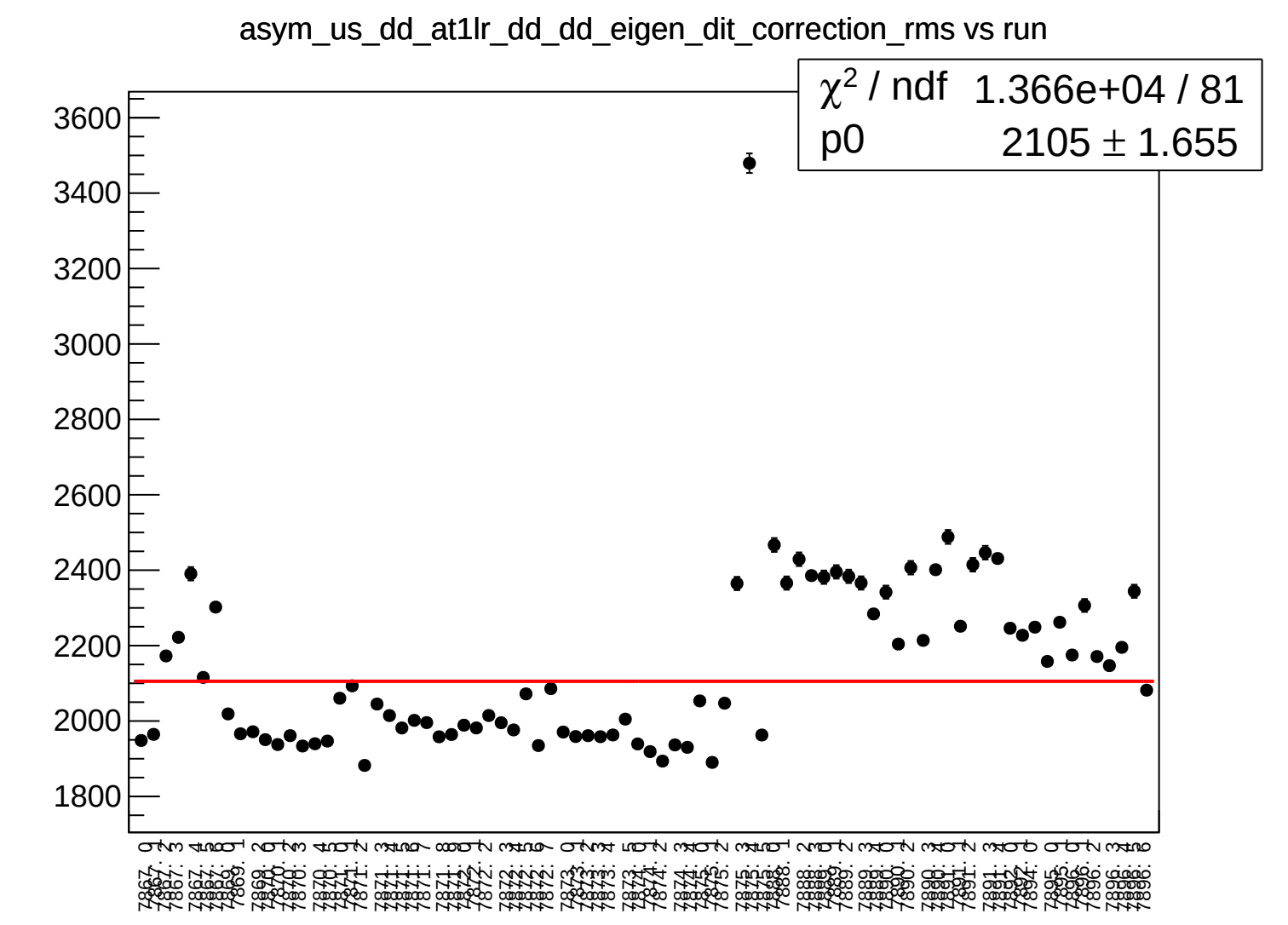

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.366e+04 / 81
p0 2105 ± 1.655
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

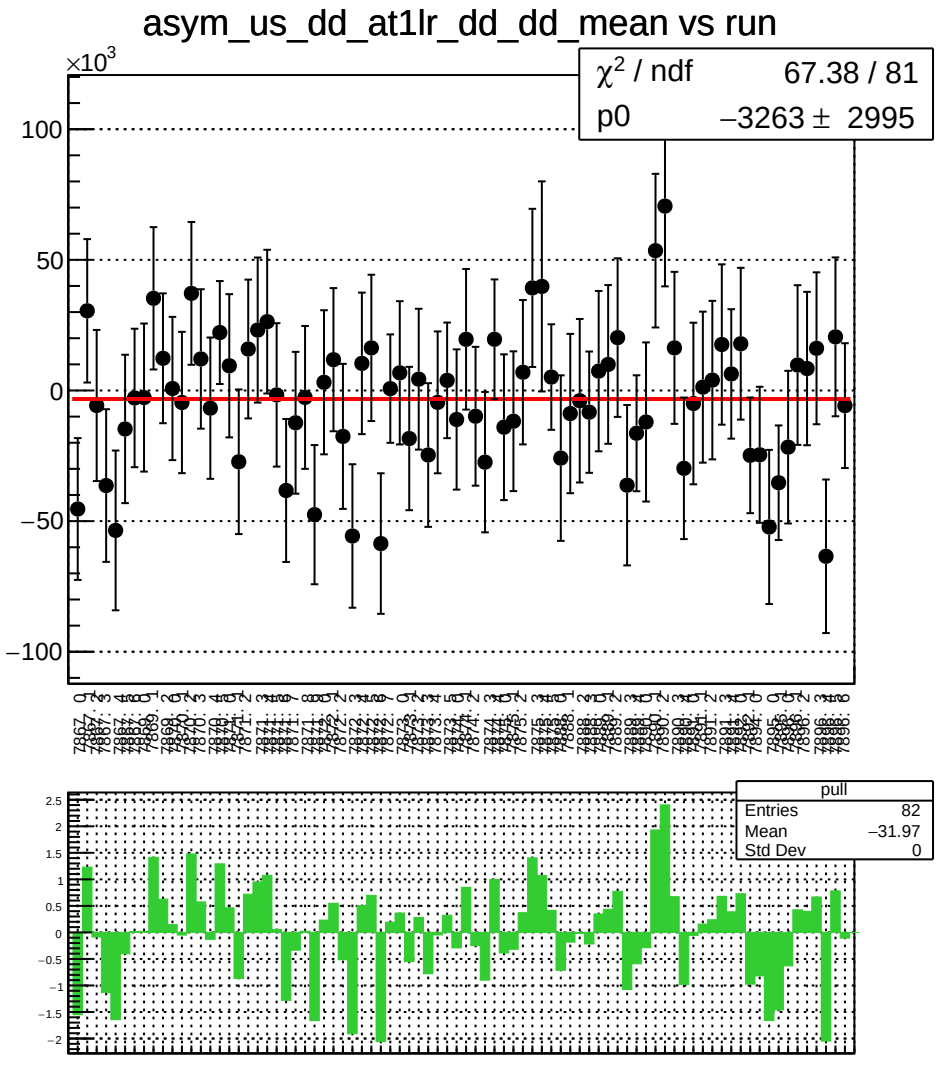

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.16 / 81
p0 −2875 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −642.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.001815
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

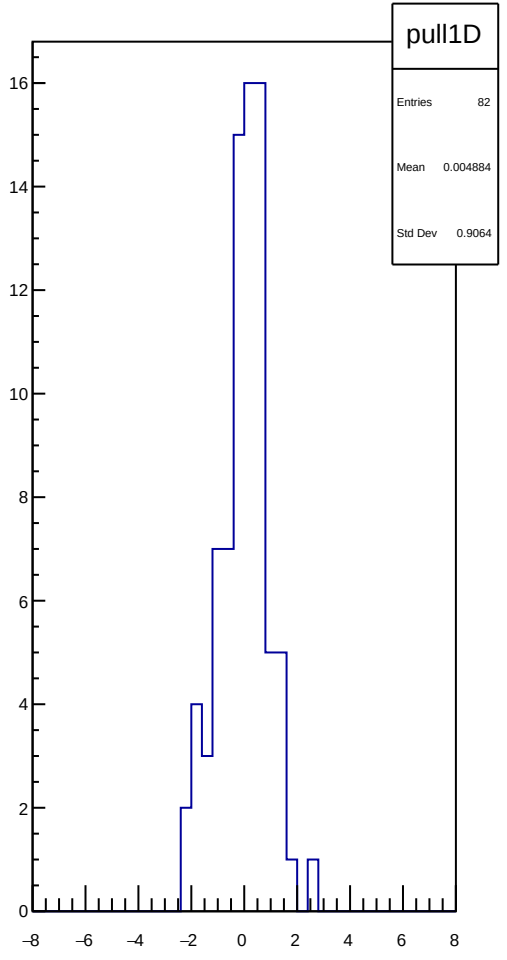

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 249.9 / 81
p0 1733 ± 1.356
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

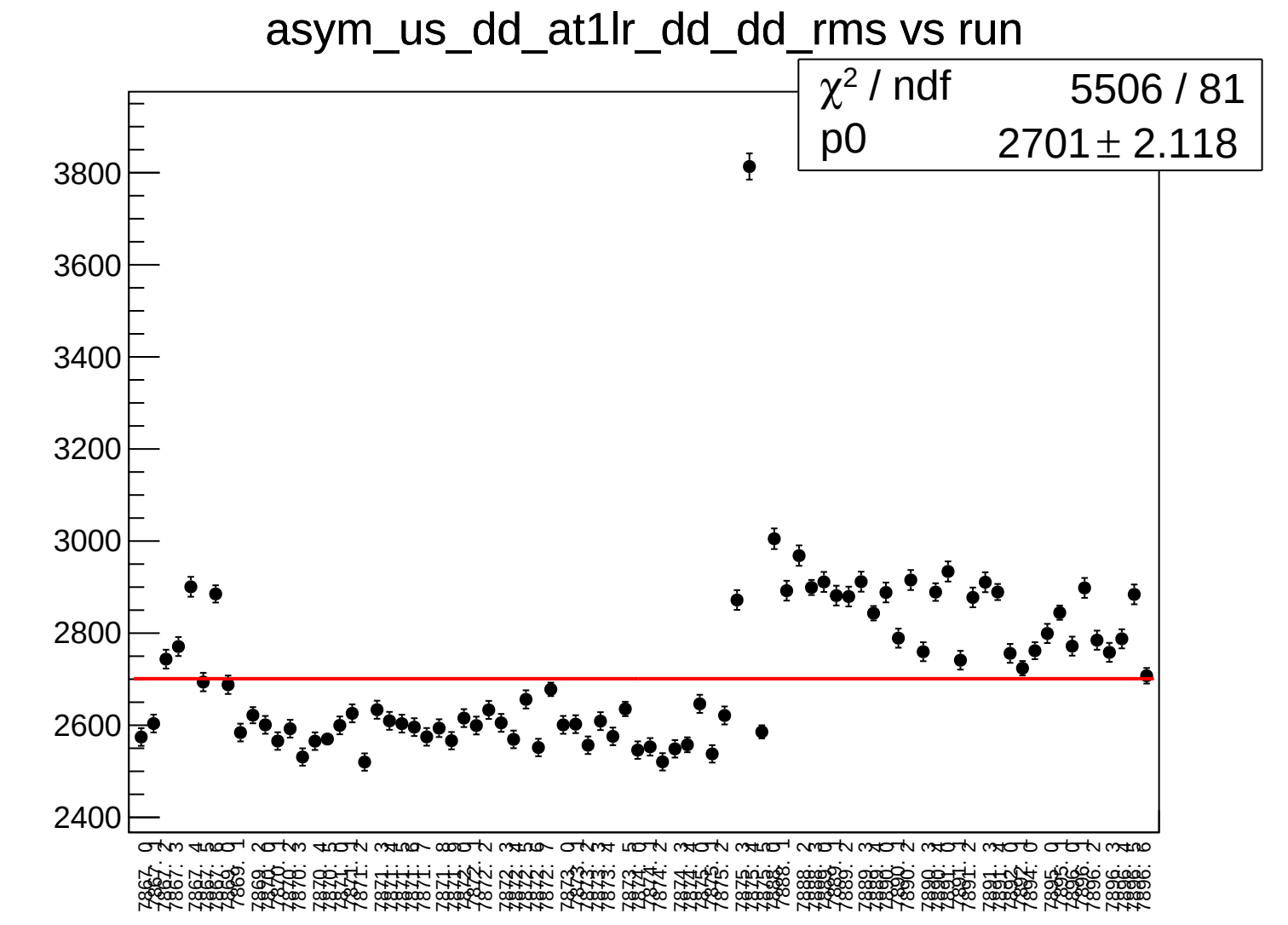

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 68.33 / 81
p0 898.5 ± 2340
pull
Entries 82
Mean 72.51
Std Dev 21.49

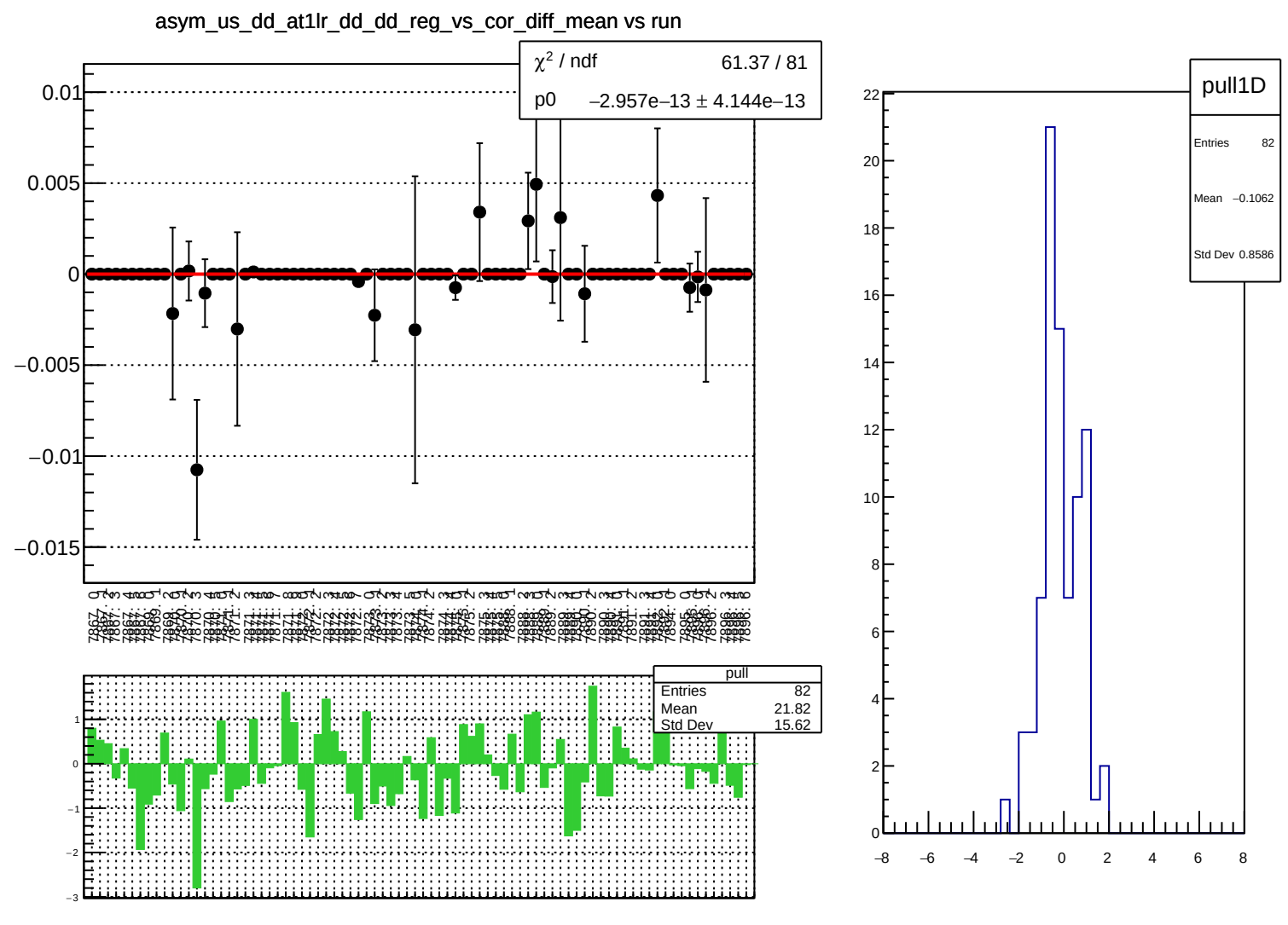

pull1D
Entries 82
Mean −0.0143
Std Dev 0.9127

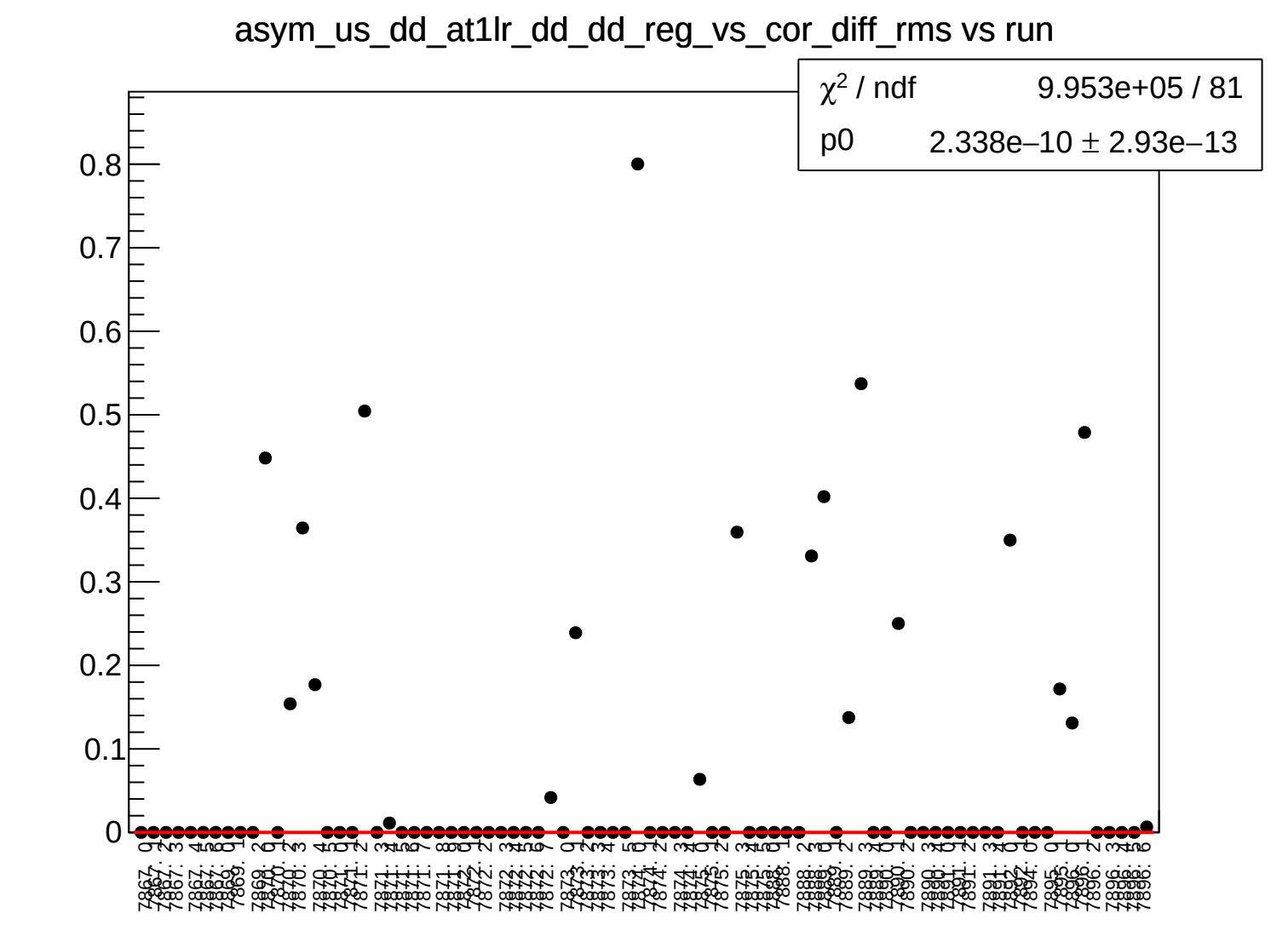

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.366e+04 / 81
p0 2105 ± 1.655
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

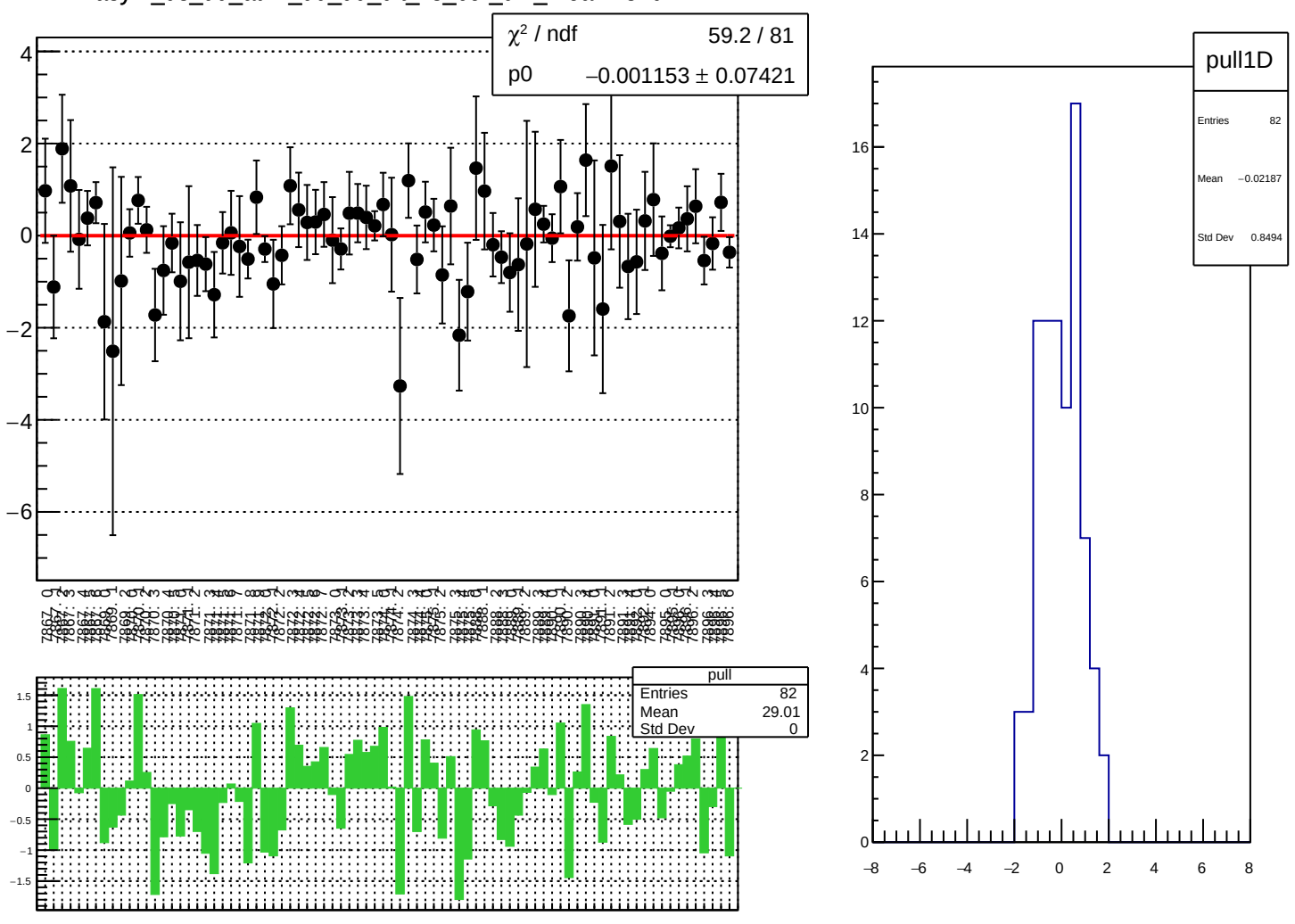

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 67.38 / 81
p0 −3263 ± 2995
100
50
0
−50
−100
pull
Entries 82
Mean −31.97
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

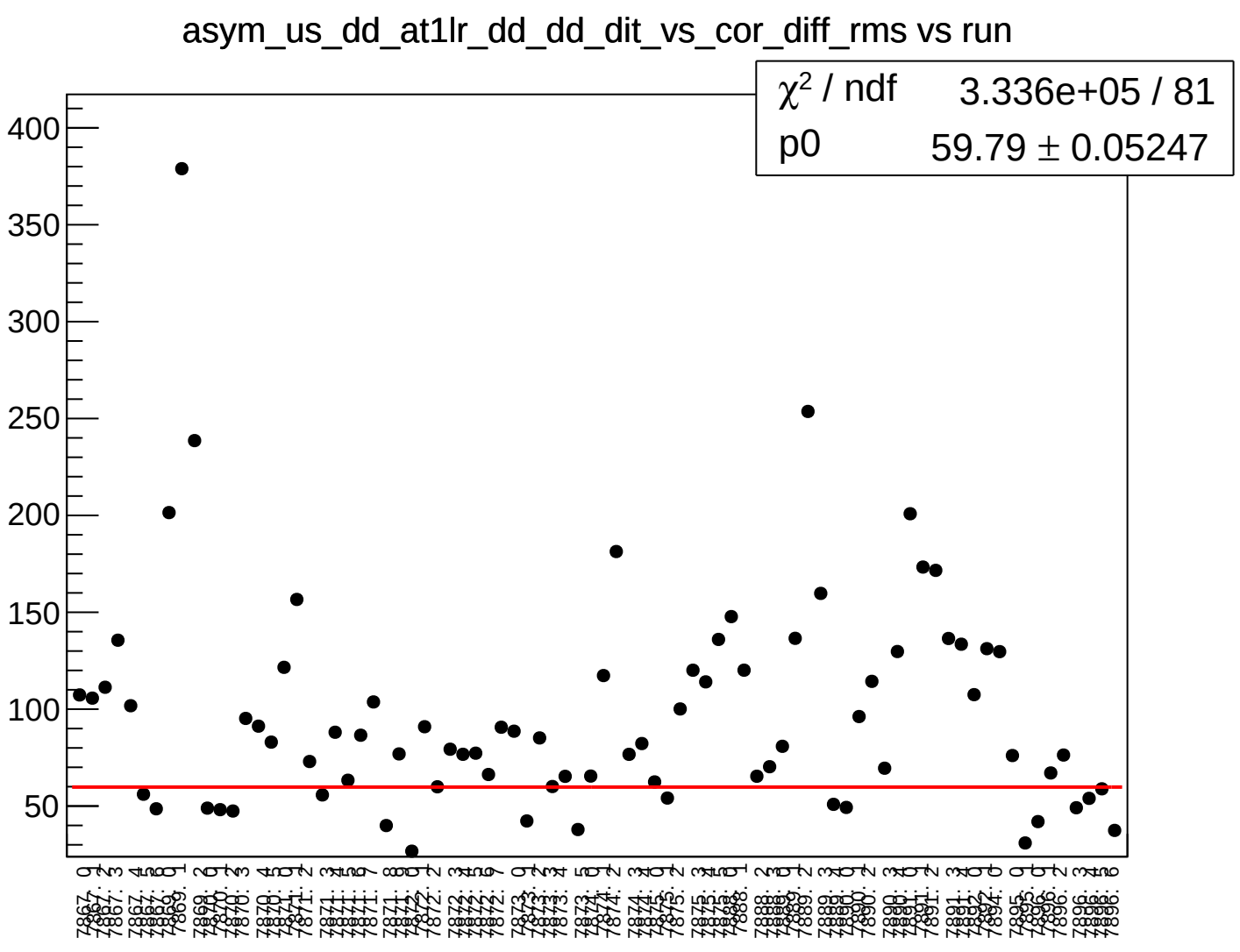

pull1D
Entries 82
Mean 0.004884
Std Dev 0.9064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

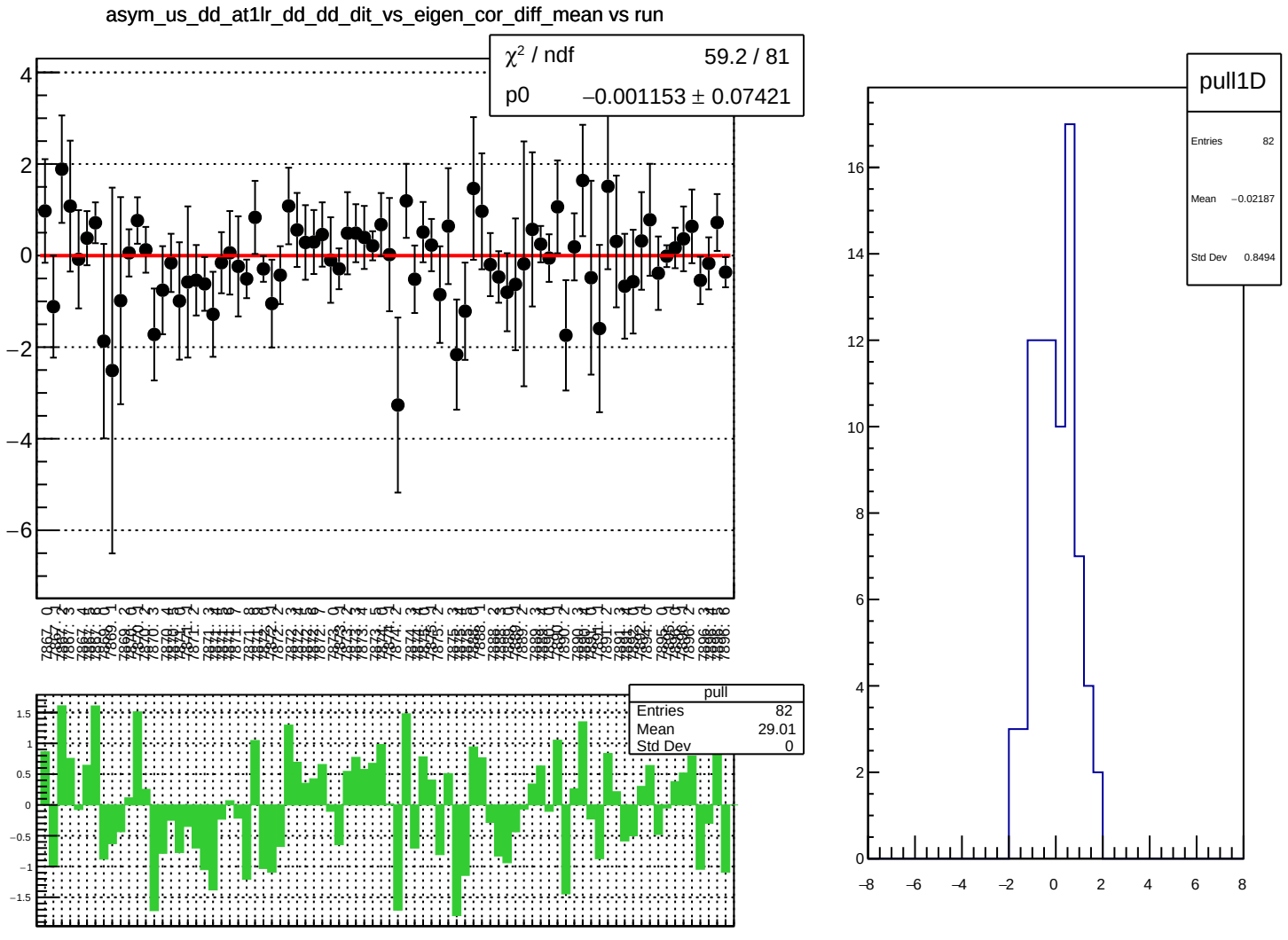

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 5506 / 81
p0 2701 ± 2.118
3800
3600
3400
3200
3000
2800
2600
2400

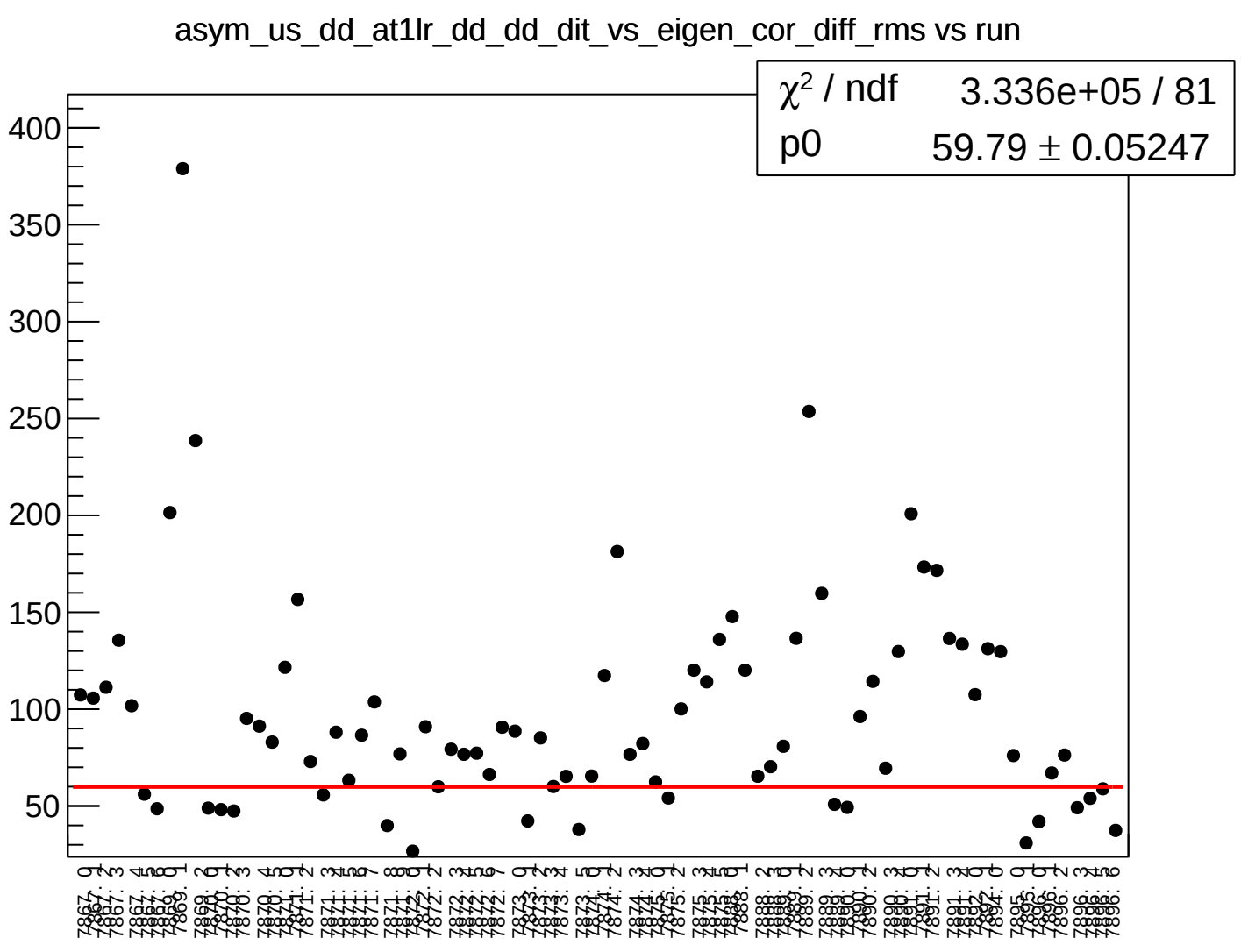

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 61.37 / 81
p0 −2.957e−13 ± 4.144e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean 21.82
Std Dev 15.62
pull1D
Entries 82
Mean −0.1062
Std Dev 0.8586

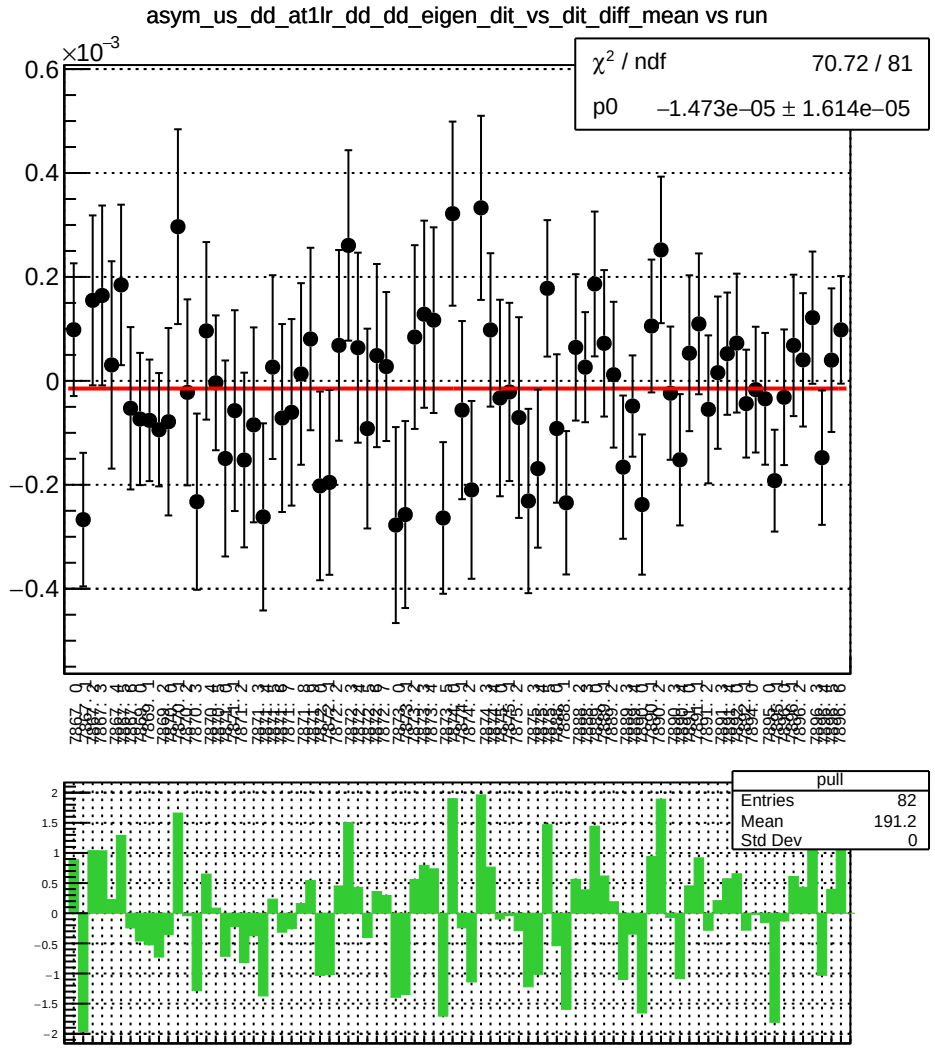

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.953e+05 / 81
p0 2.338e−10 ± 2.93e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

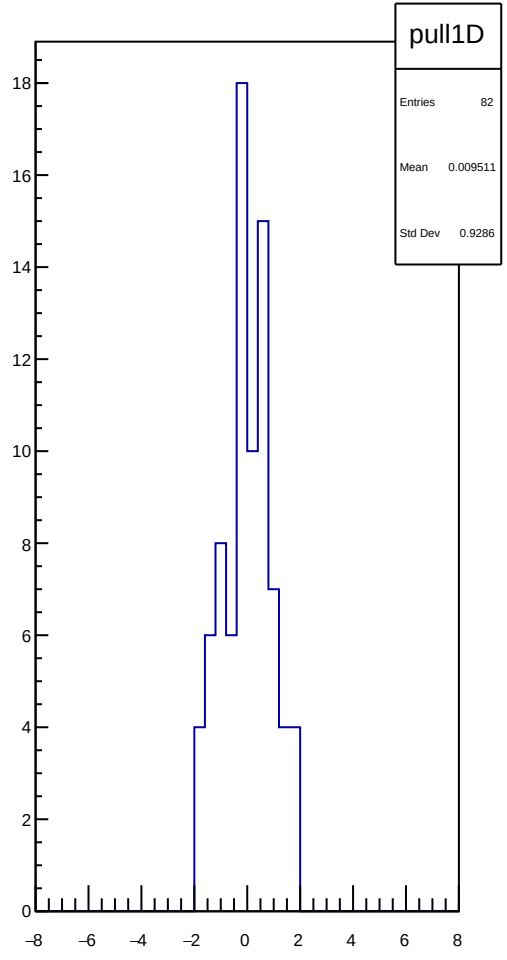

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 59.2 / 81
p0 −0.001153 ± 0.07421
pull
Entries 82
Mean 29.01
Std Dev 0
pull1D
Entries 82
Mean −0.02187
Std Dev 0.8494

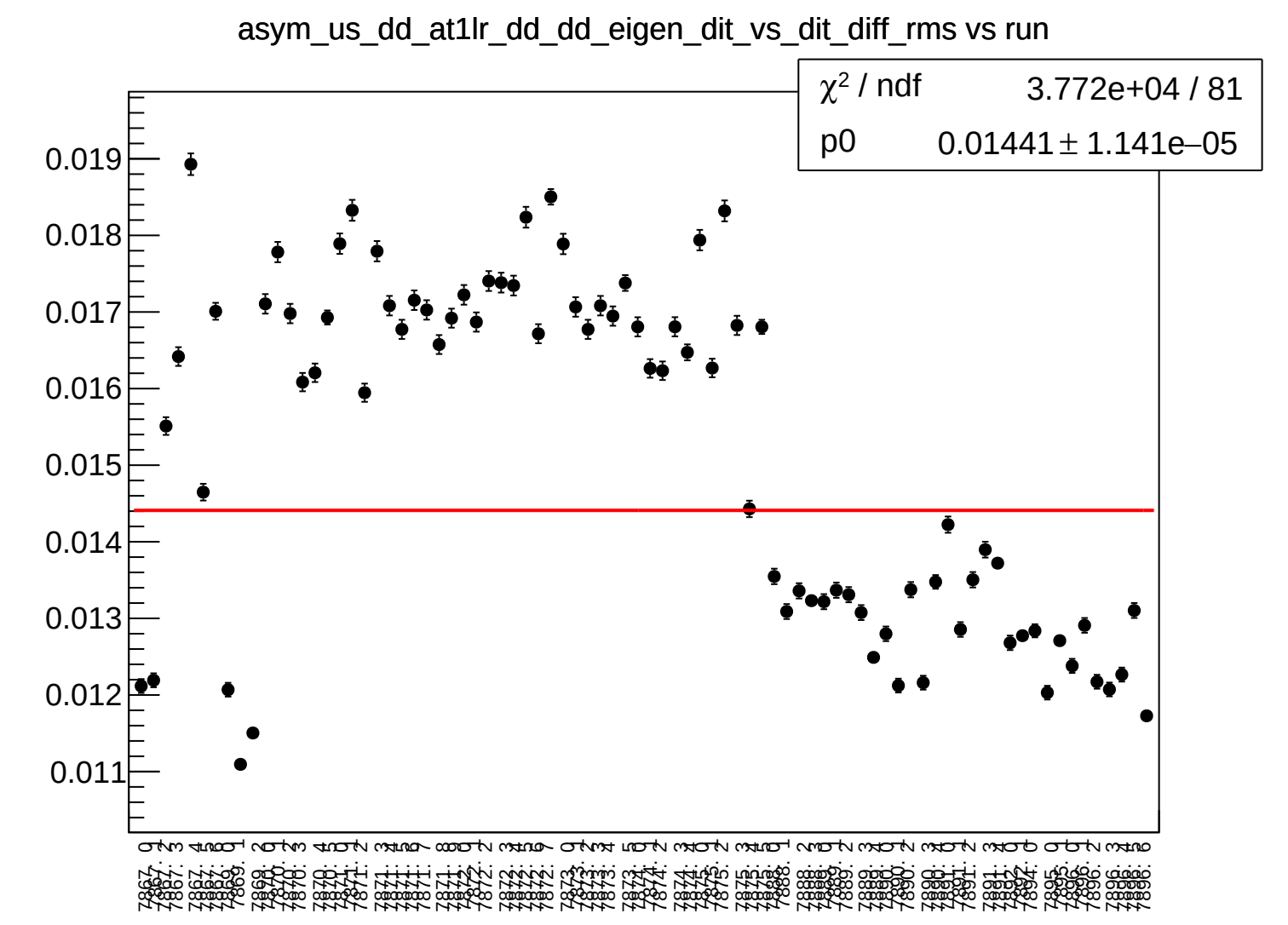

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.336e+05 / 81
p0 59.79 ± 0.05247
400
350
300
250
200
150
100
50

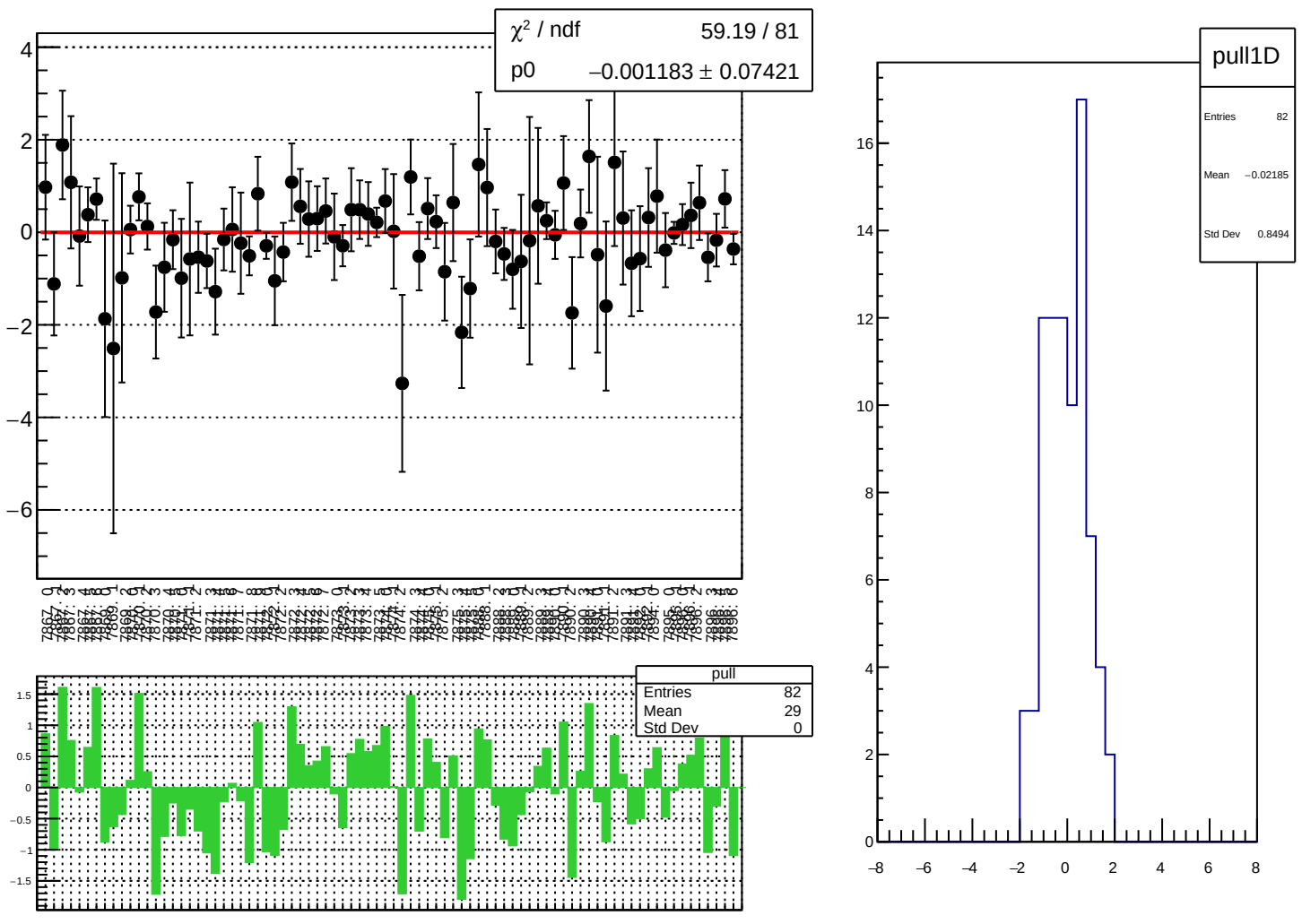

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.2 / 81
p0 −0.001153 ± 0.07421
pull
Entries 82
Mean 29.01
Std Dev 0
pull1D
Entries 82
Mean −0.02187
Std Dev 0.8494

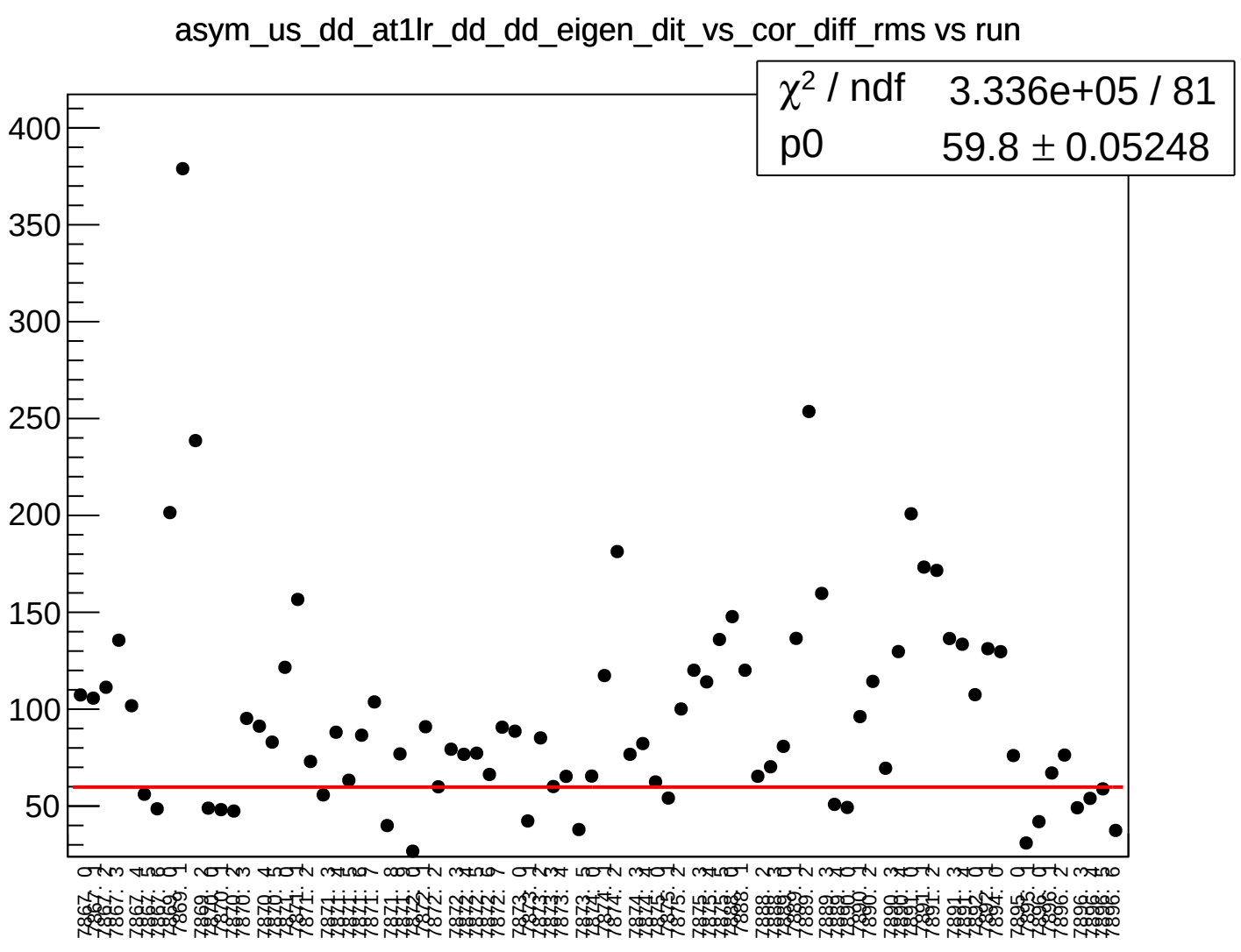

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.336e+05 / 81
p0 59.79 ± 0.05247
400
350
300
250
200
150
100
50

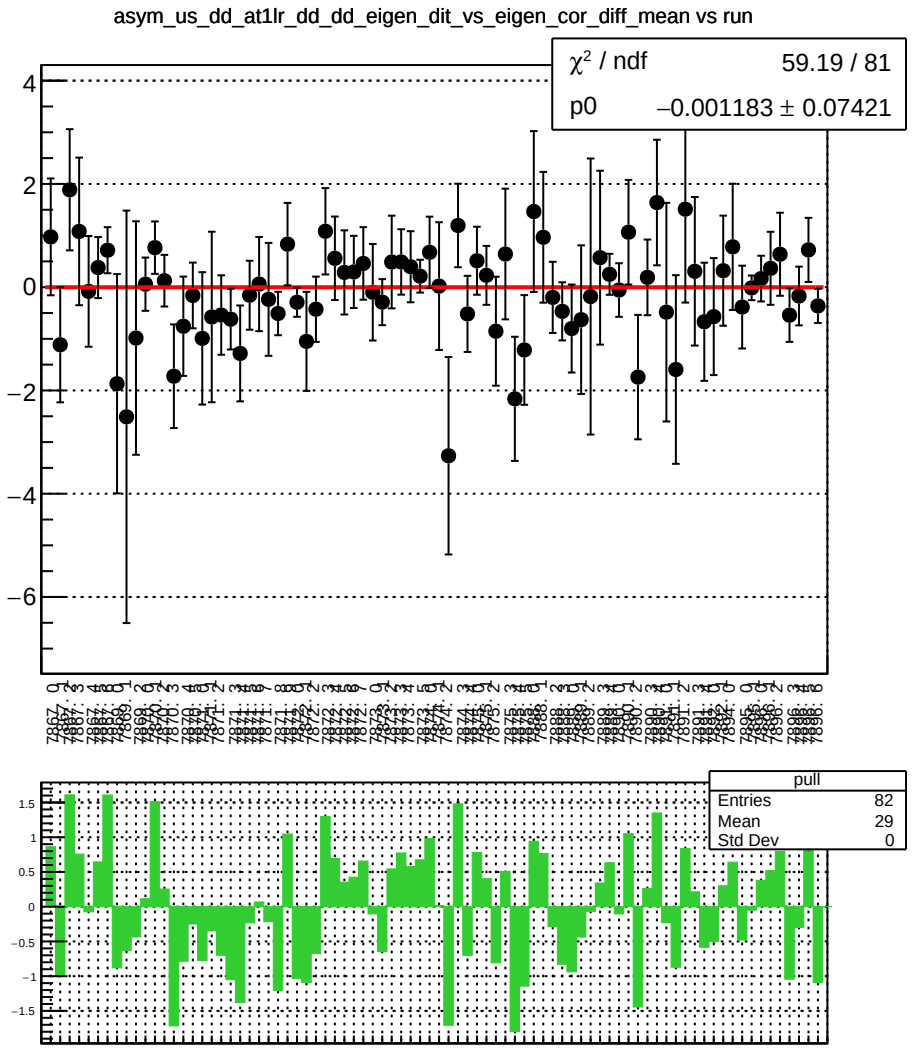

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.72 / 81
p0 −1.473e−05 ± 1.614e−05
pull
Entries 82
Mean 191.2
Std Dev 0

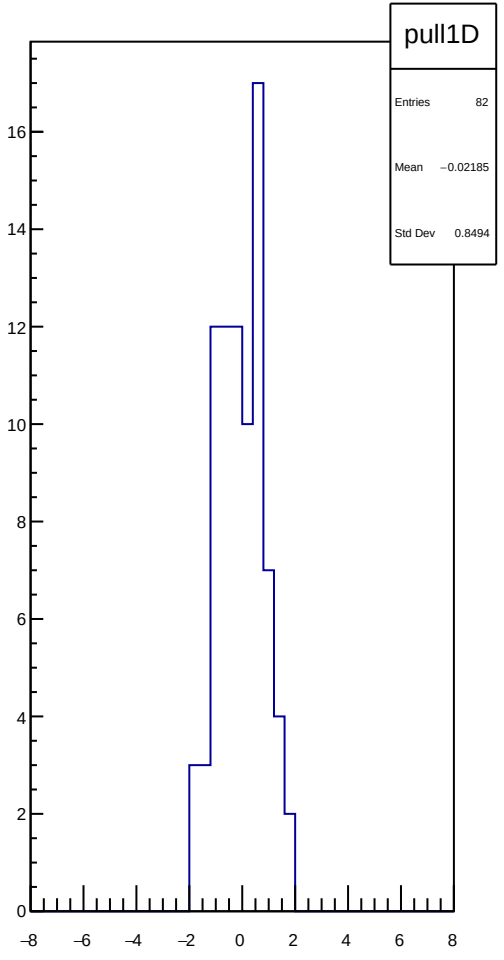

pull1D
Entries 82
Mean 0.009511
Std Dev 0.9286

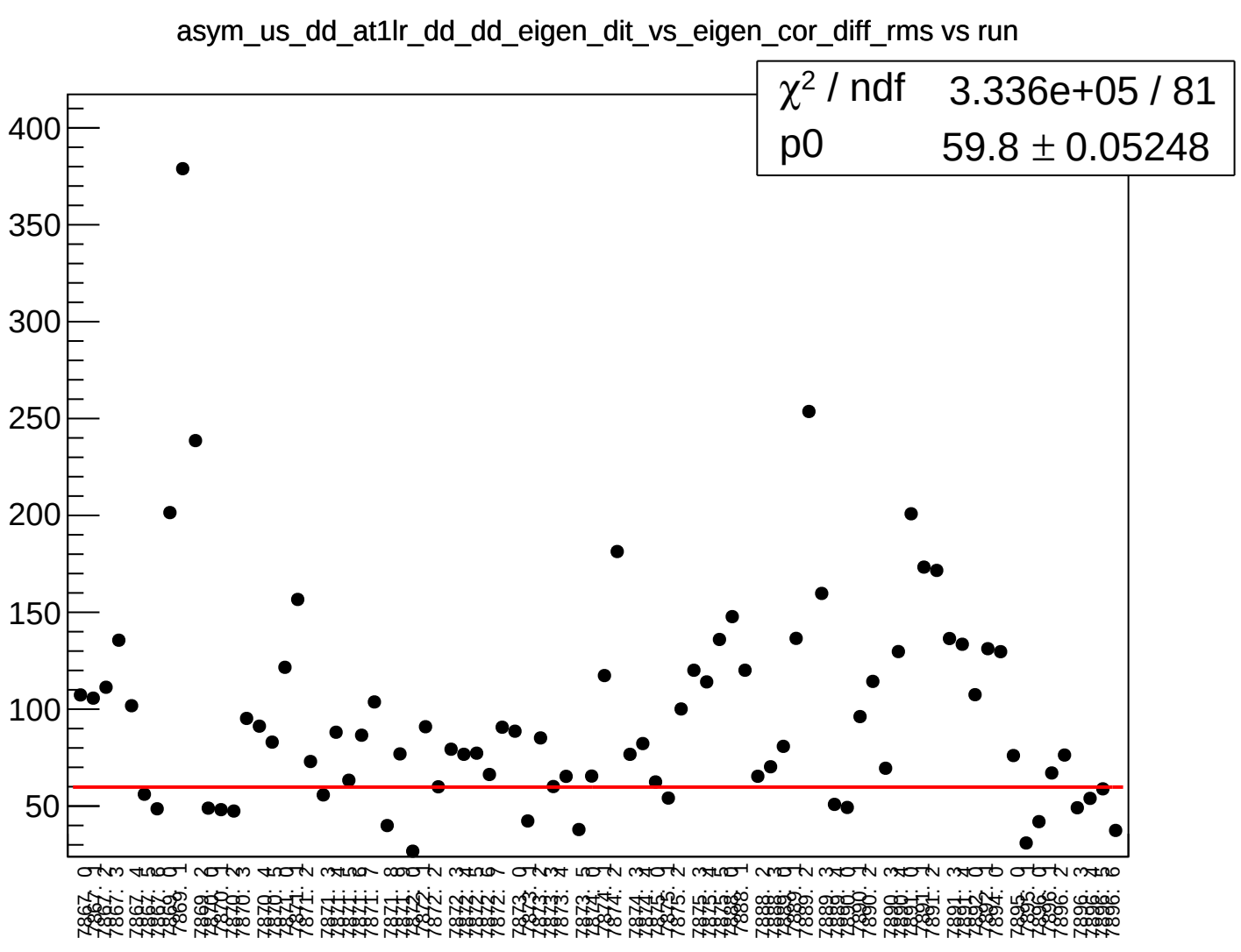

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.772e+04 / 81
p0 0.01441 ± 1.141e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

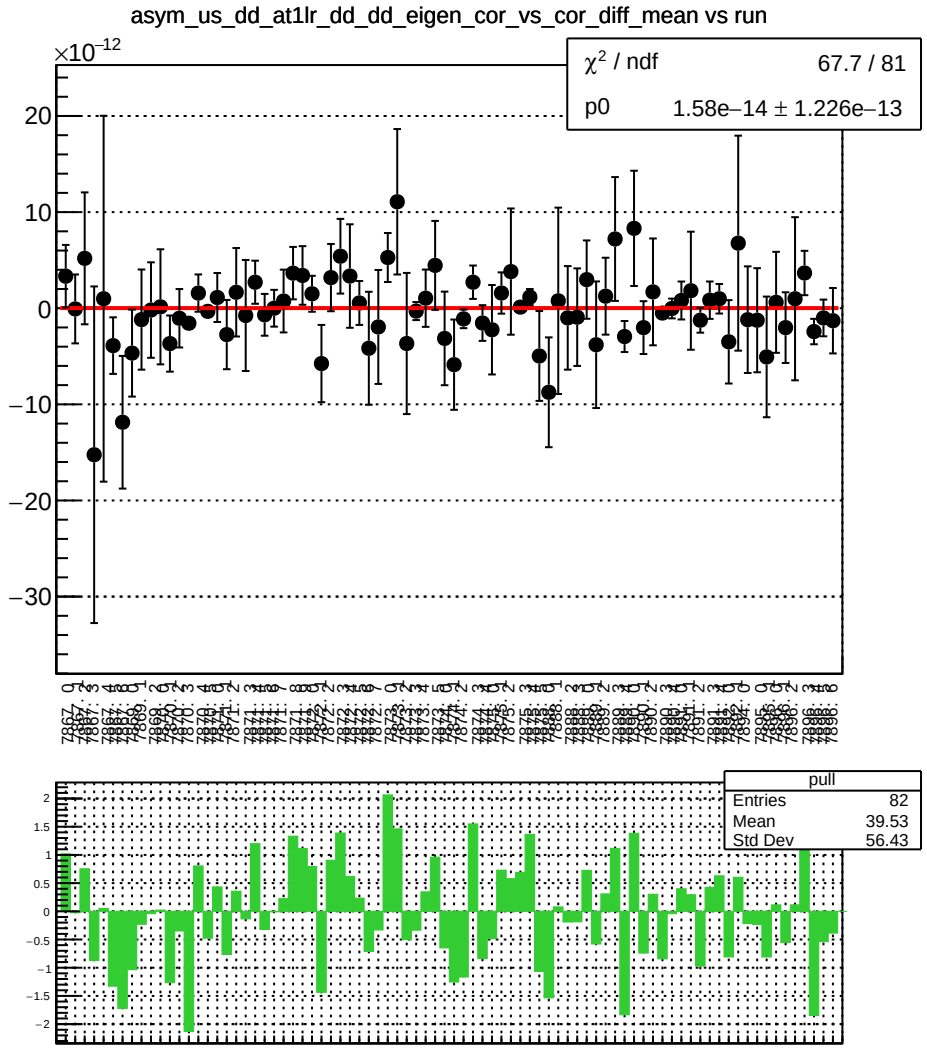

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 59.19 / 81
p0 −0.001183 ± 0.07421
pull
Entries 82
Mean 29
Std Dev 0
pull1D
Entries 82
Mean −0.02185
Std Dev 0.8494

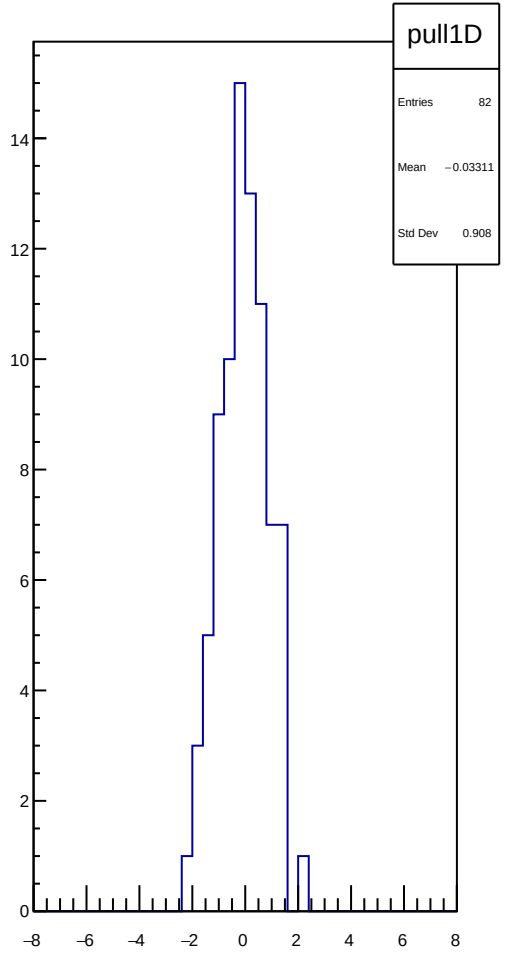

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.336e+05 / 81
p0 59.8 ± 0.05248
400
350
300
250
200
150
100
50

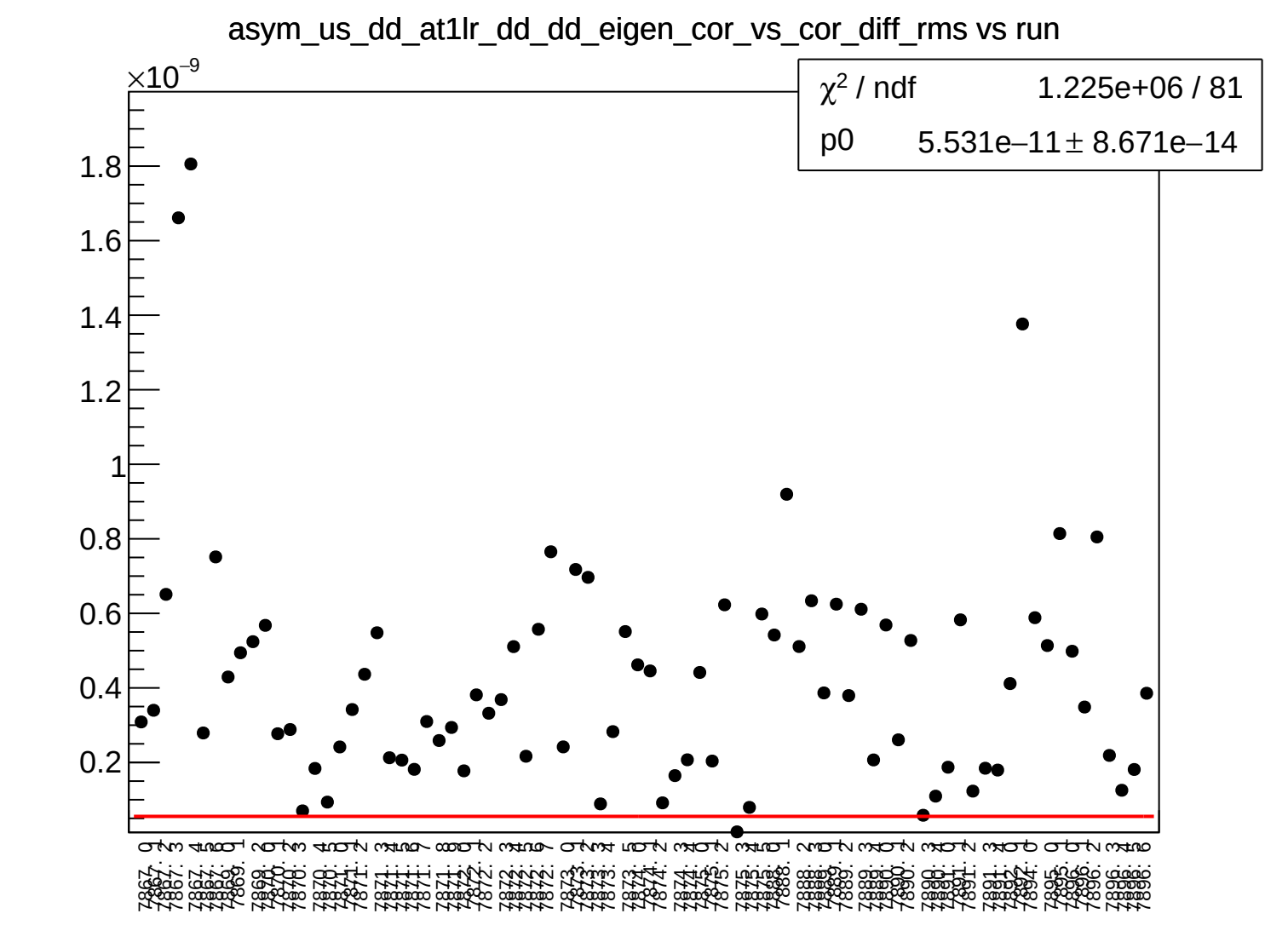

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.19 / 81
p0 −0.001183 ± 0.07421
pull
Entries 82
Mean 29
Std Dev 0

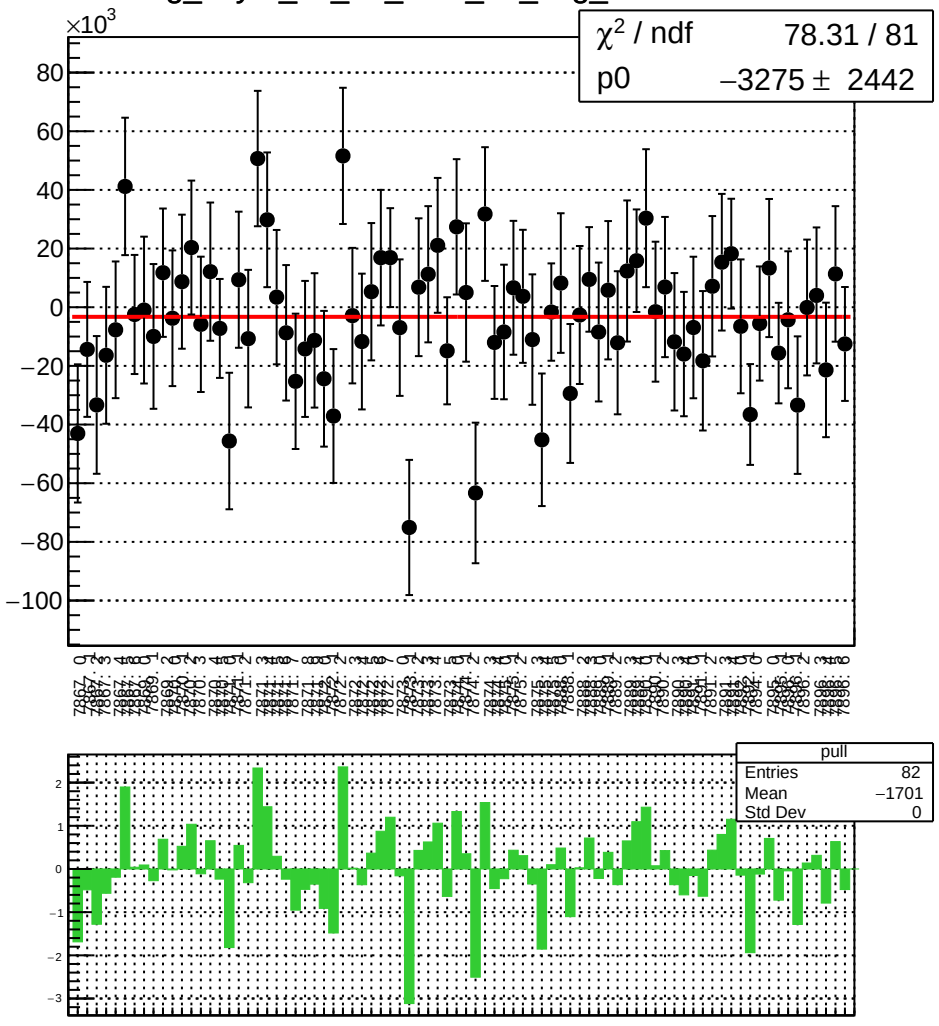

pull1D
Entries 82
Mean −0.02185
Std Dev 0.8494

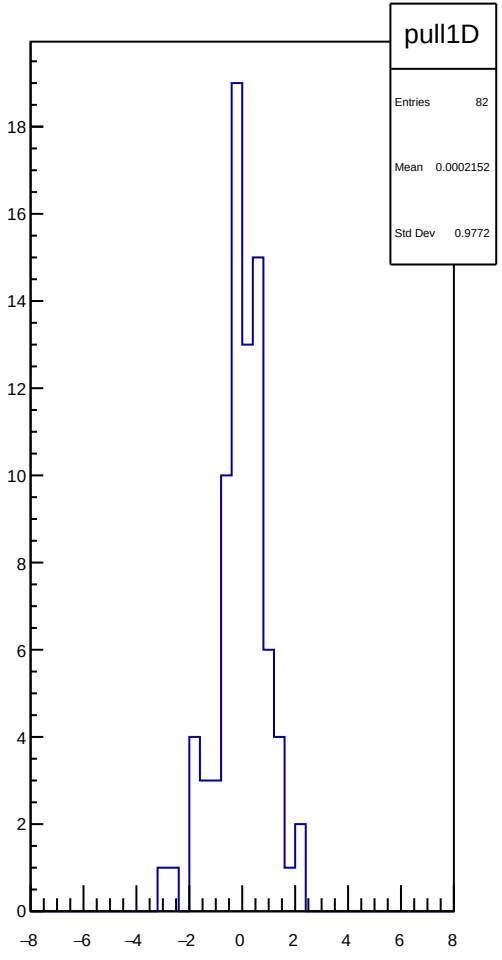

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.336e+05 / 81
p0 59.8 ± 0.05248
400
350
300
250
200
150
100
50

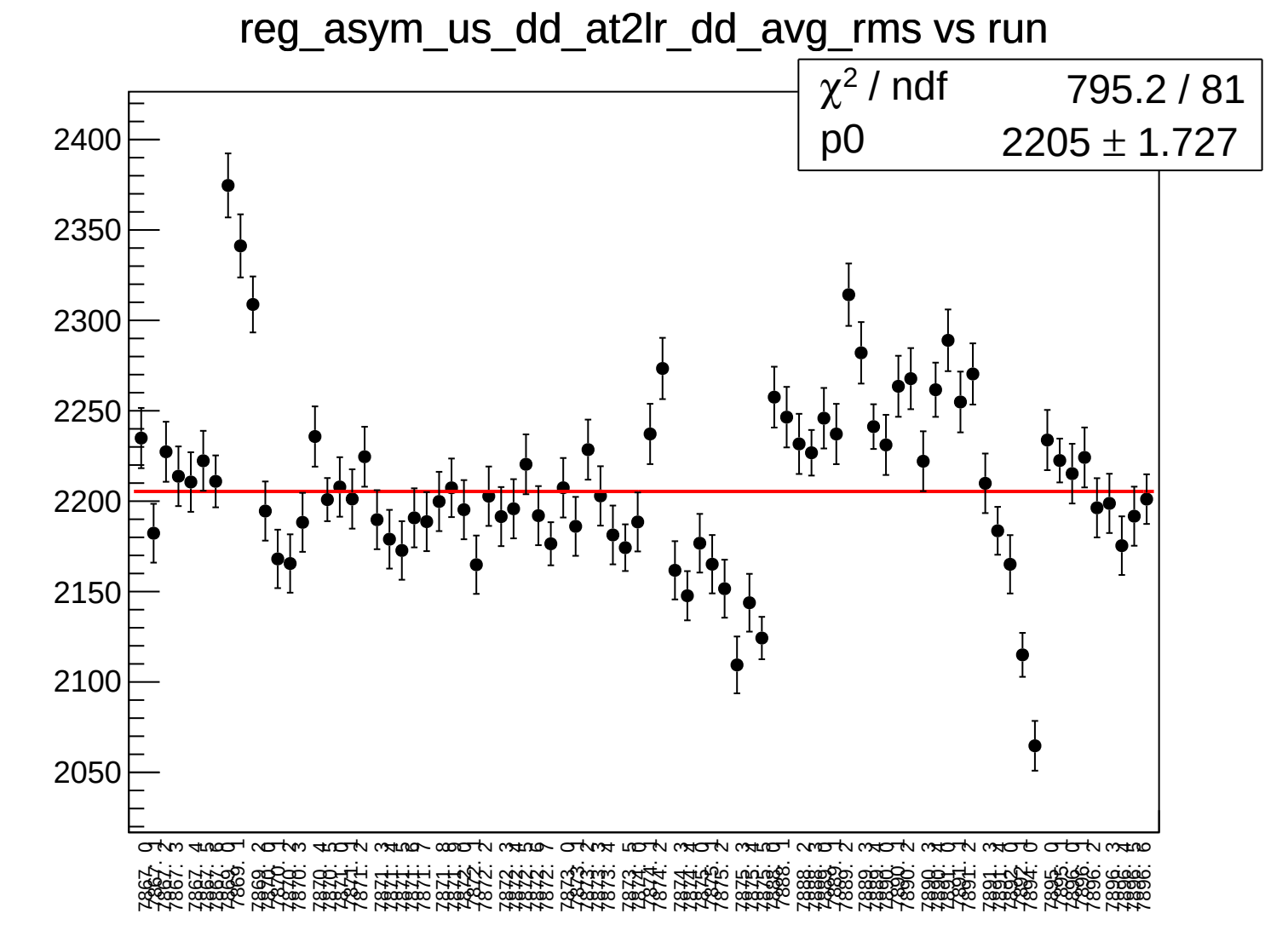

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.7 / 81
p0 1.58e−14 ± 1.226e−13
pull
Entries 82
Mean 39.53
Std Dev 56.43

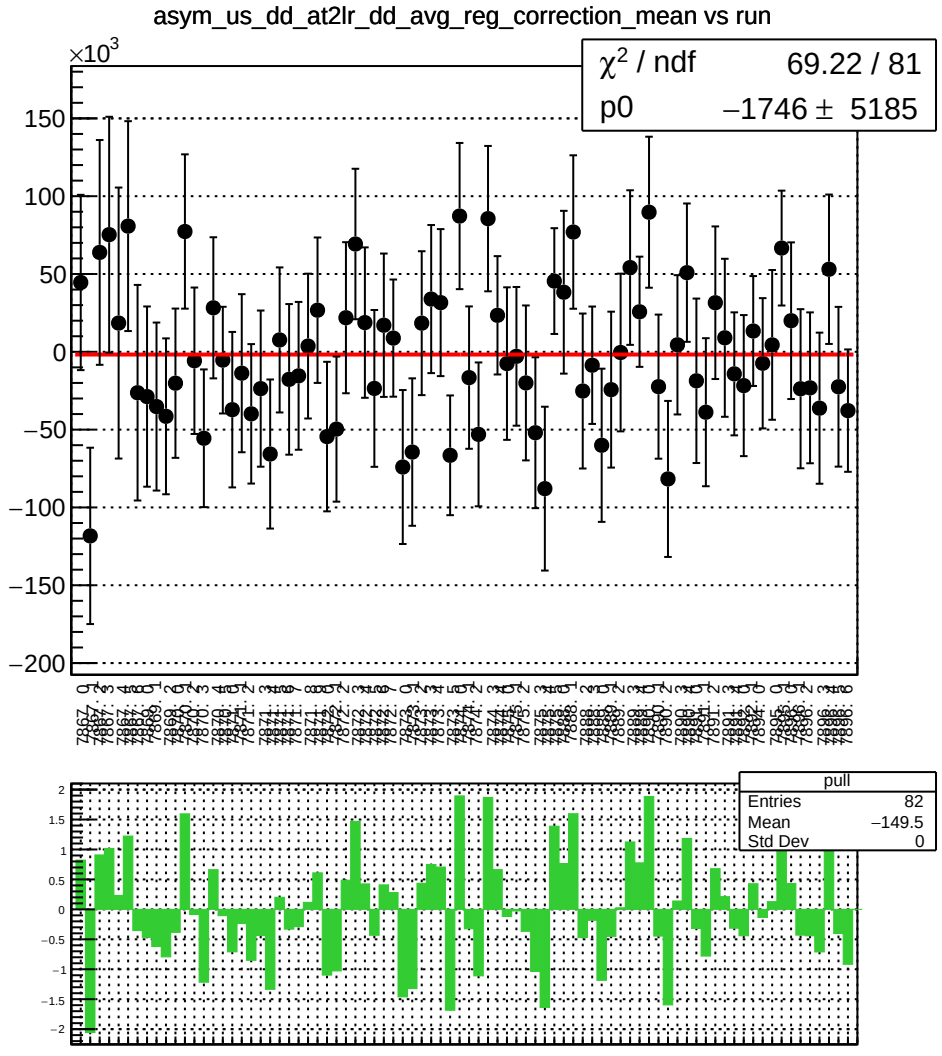

pull1D
Entries 82
Mean −0.03311
Std Dev 0.908

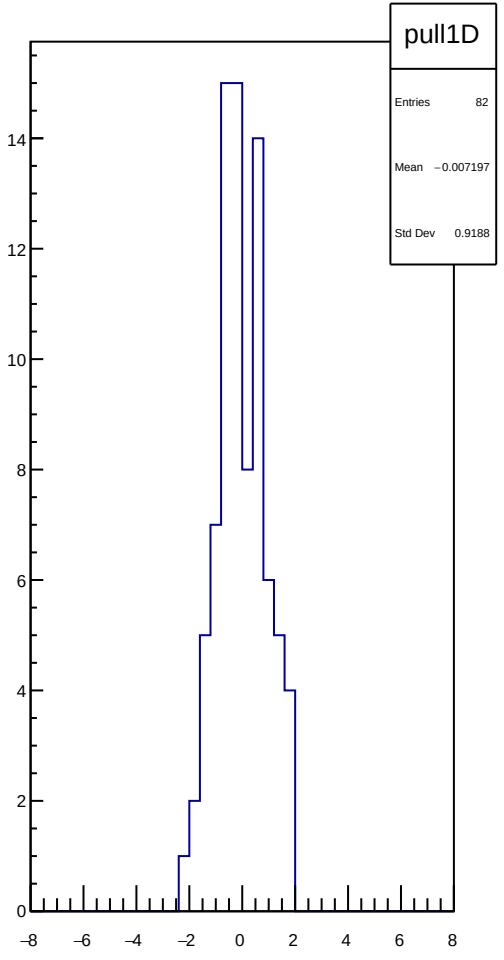

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.225e+06 / 81
p0 5.531e−11 ± 8.671e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

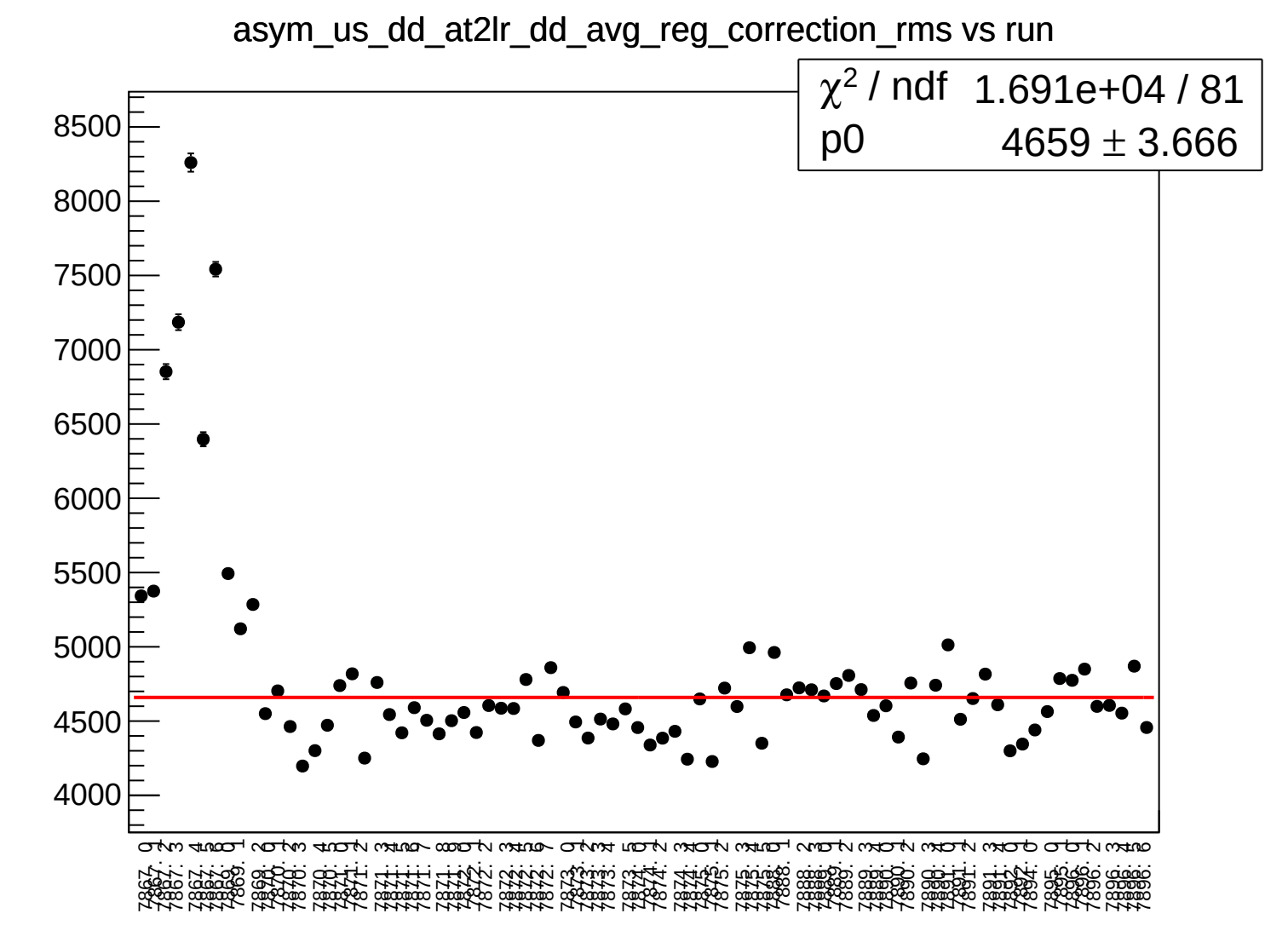

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 78.31 / 81
p0 −3275 ± 2442
pull
Entries 82
Mean −1701
Std Dev 0

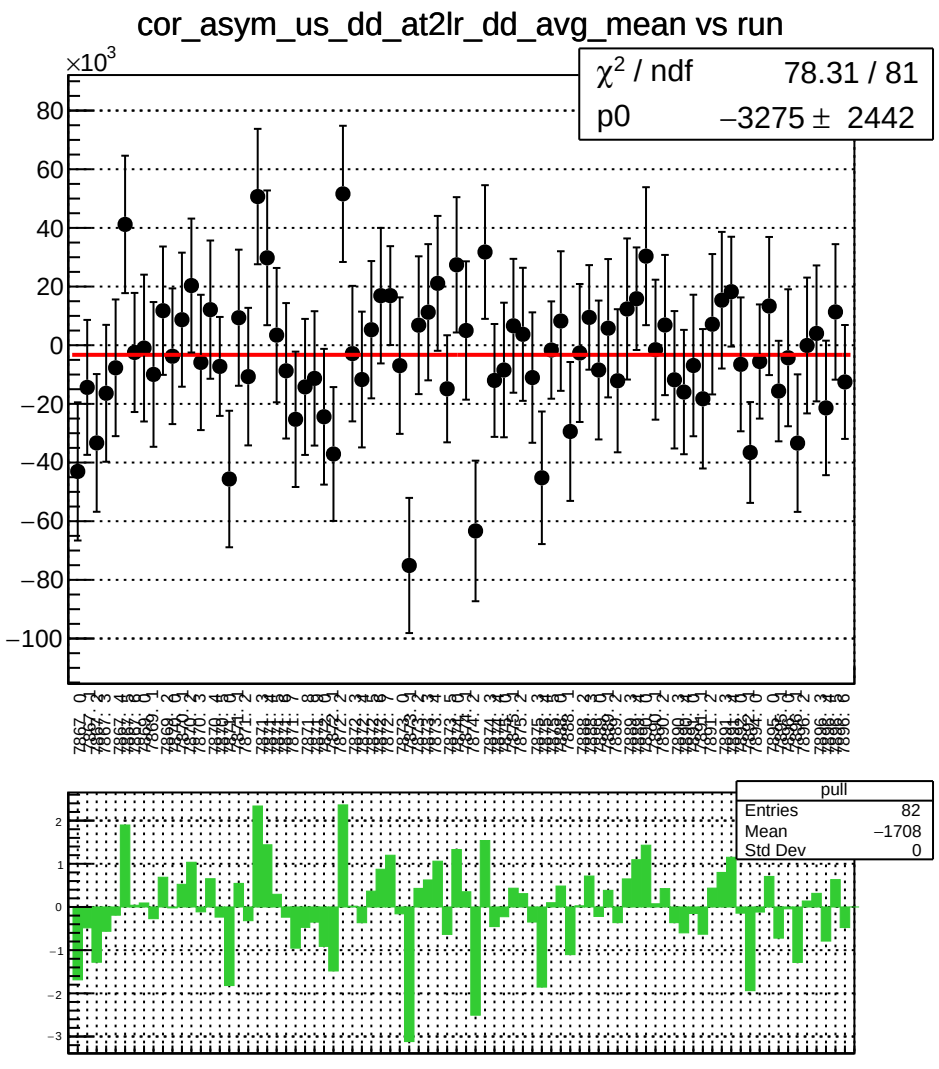

pull1D
Entries 82
Mean 0.0002152
Std Dev 0.9772

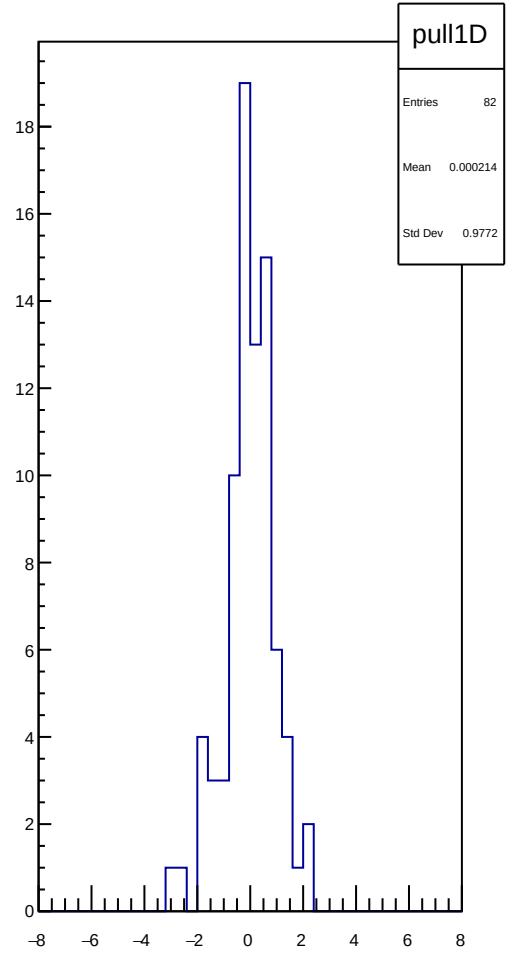

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 795.2 / 81
p0 2205 ± 1.727
2400
2350
2300
2250
2200
2150
2100
2050

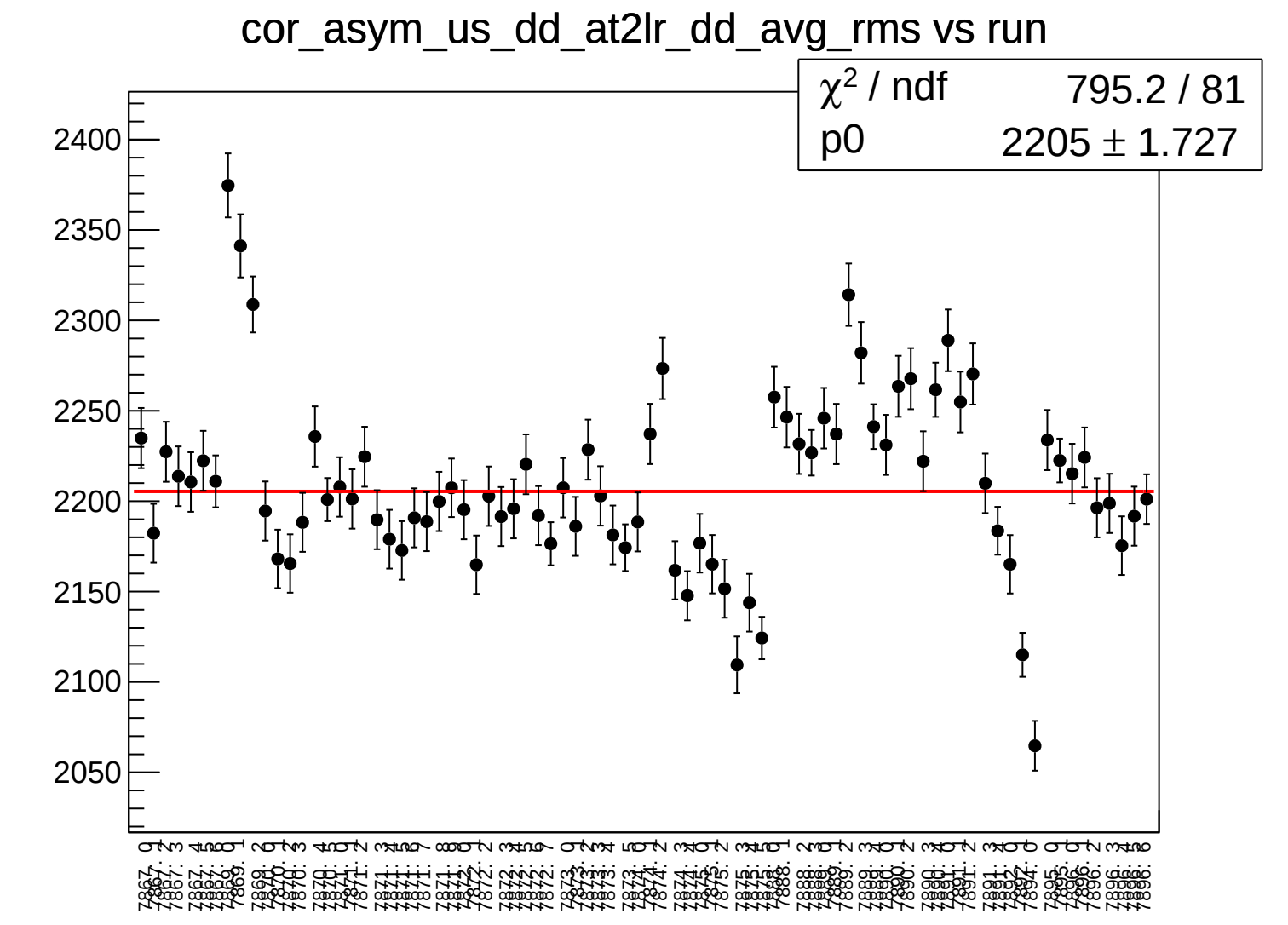

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.22 / 81
p0 −1746 ± 5185
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −149.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

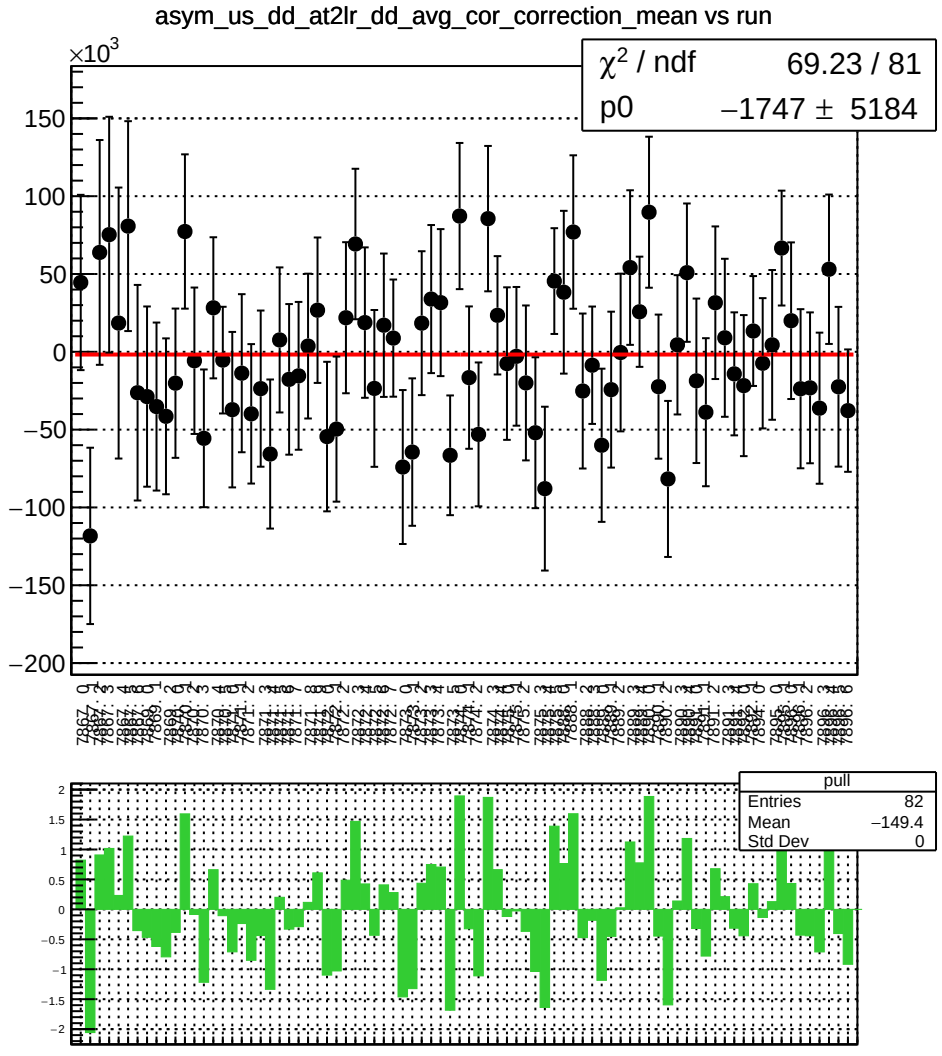

pull1D
Entries 82
Mean −0.007197
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

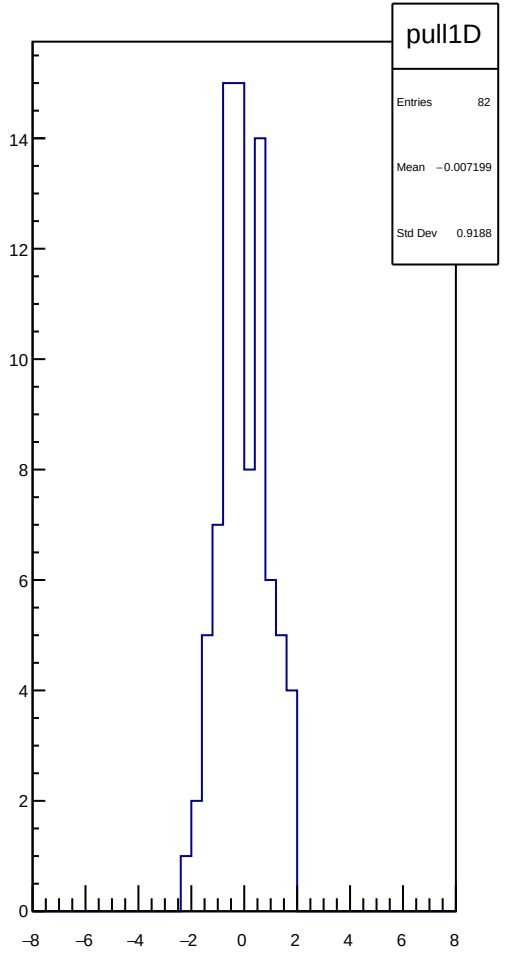

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.691e+04 / 81
p0 4659 ± 3.666
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

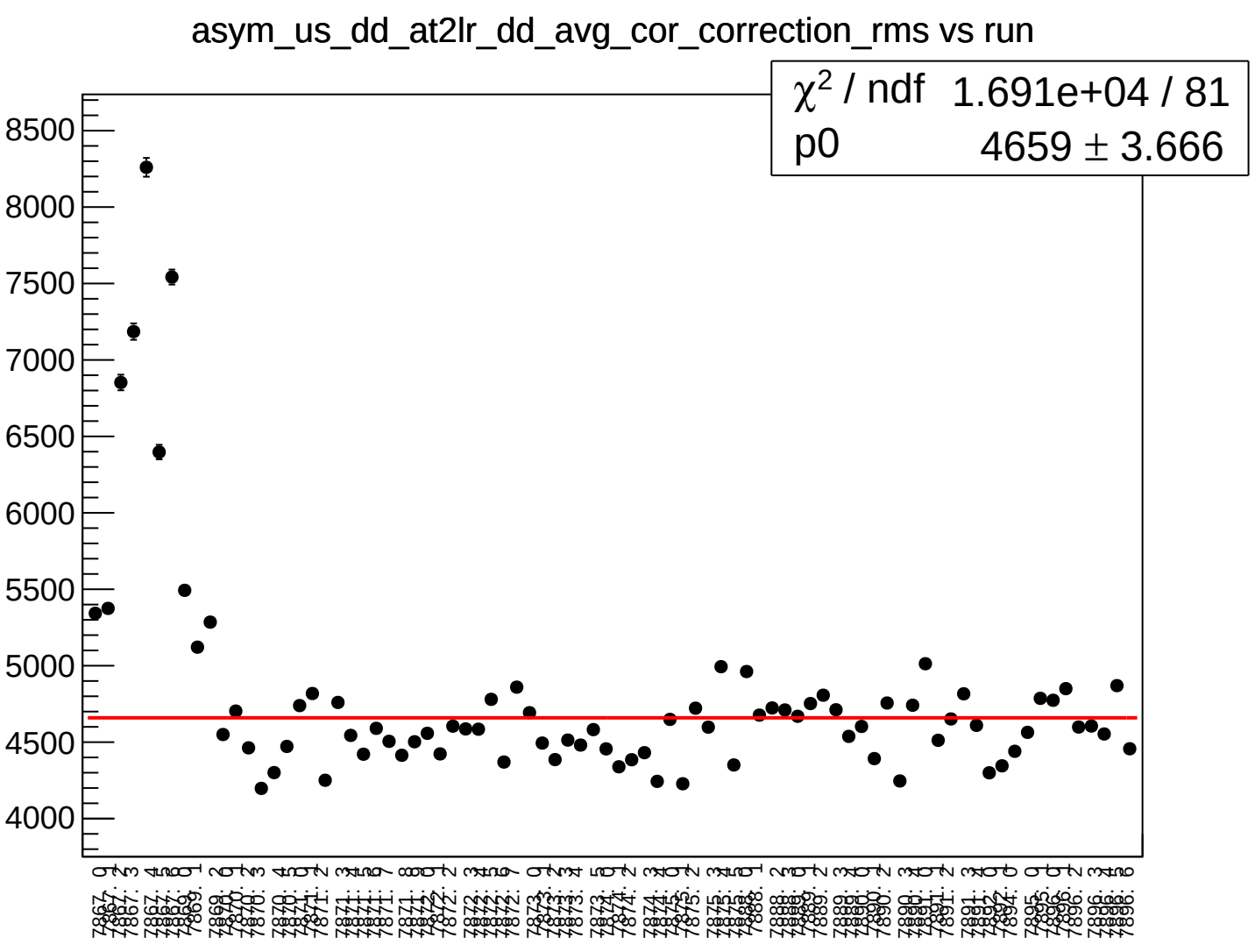

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 78.31 / 81
p0 −3275 ± 2442
pull
Entries 82
Mean −1708
Std Dev 0

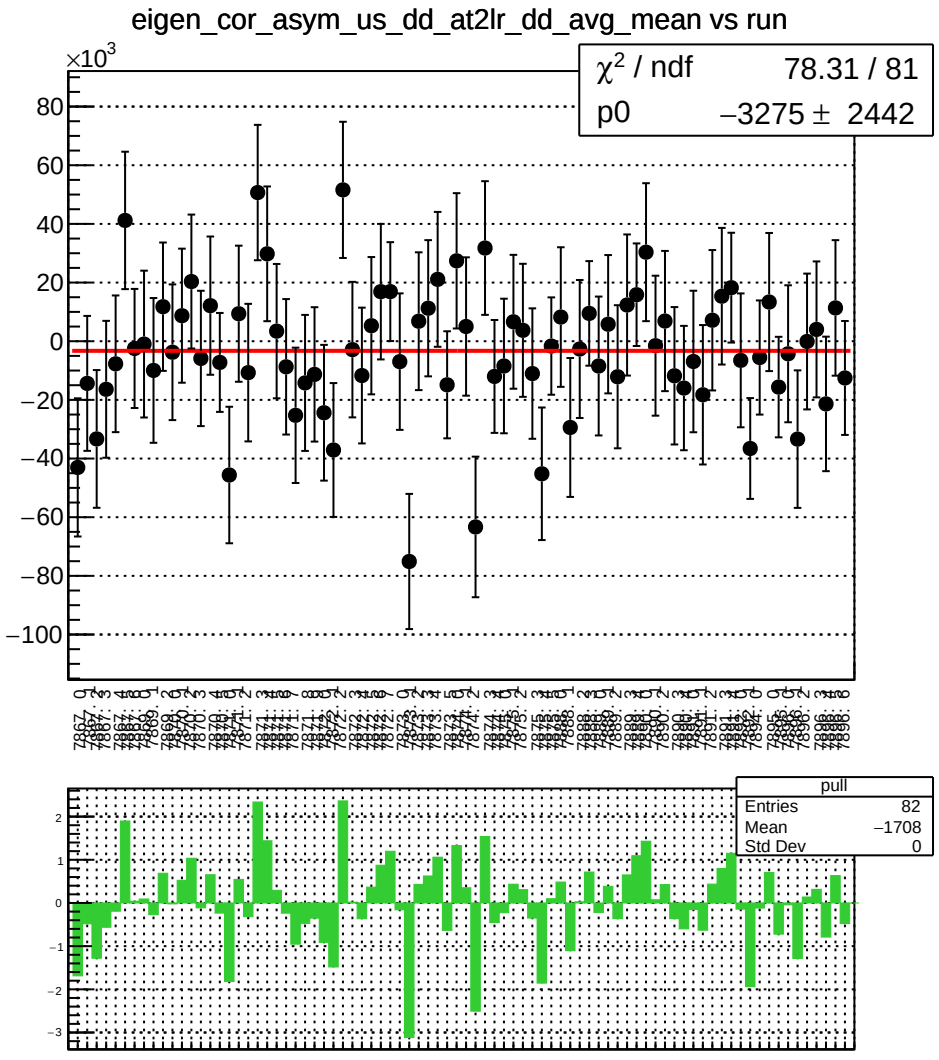

pull1D
Entries 82
Mean 0.000214
Std Dev 0.9772

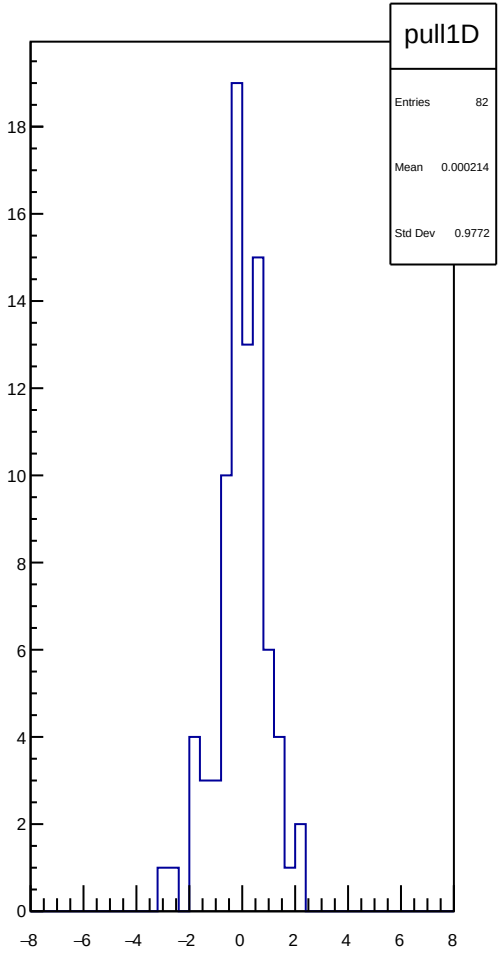

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 795.2 / 81
p0 2205 ± 1.727
2400
2350
2300
2250
2200
2150
2100
2050

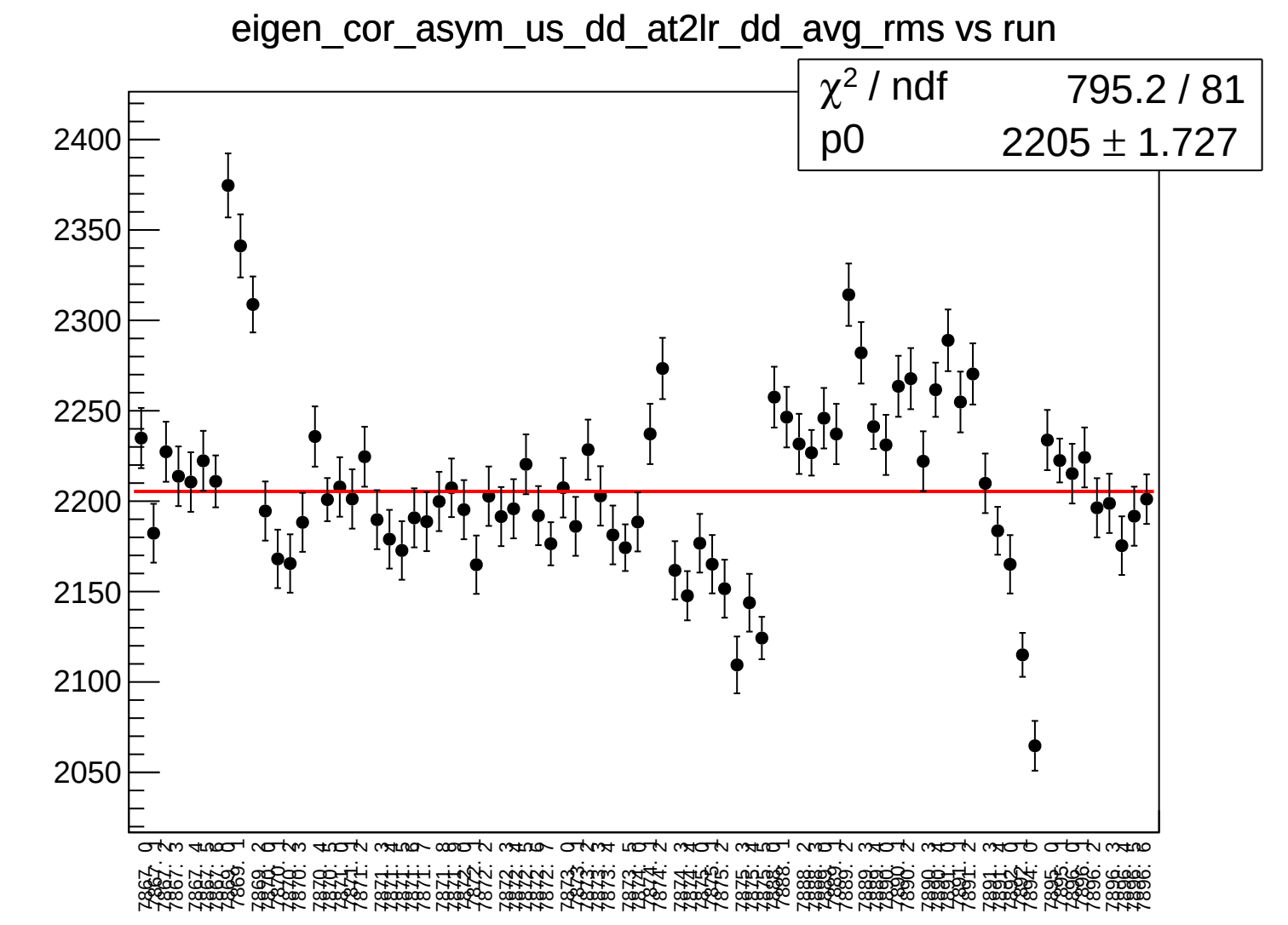

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.23 / 81
p0 −1747 ± 5184
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −149.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

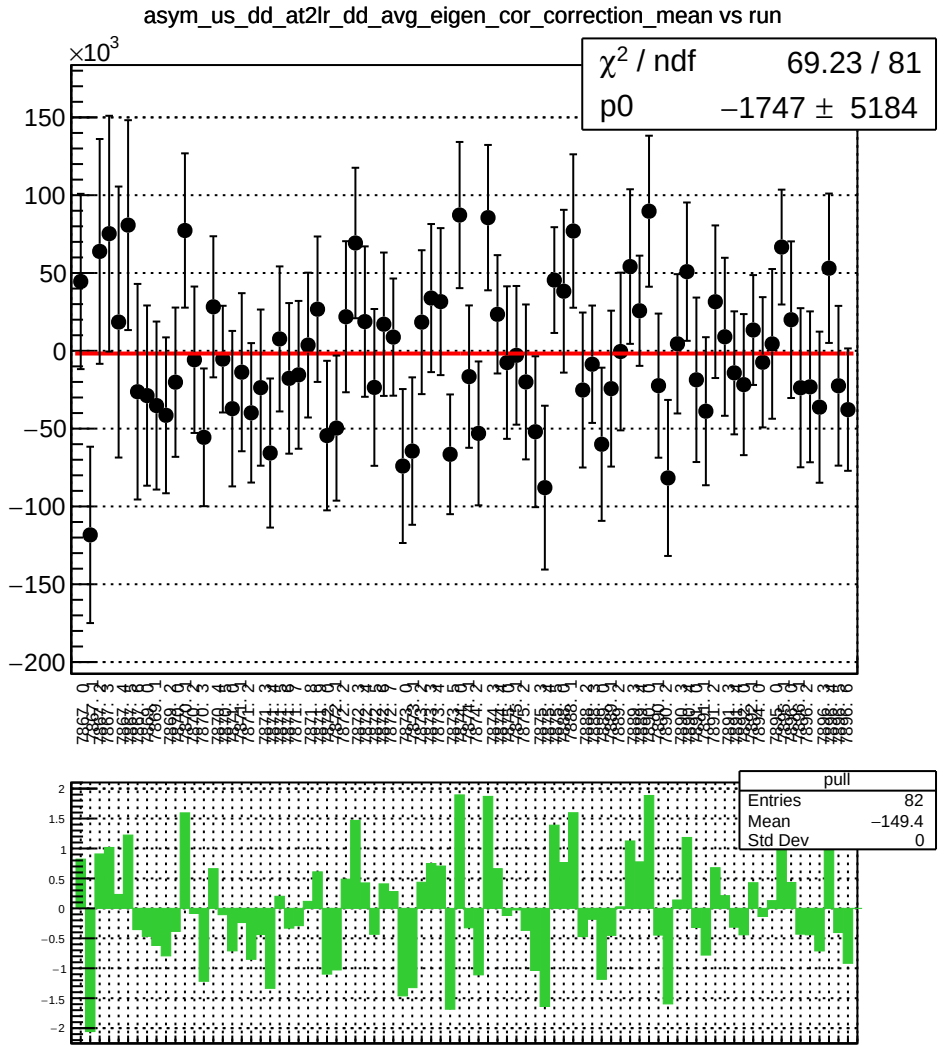

pull1D
Entries 82
Mean −0.007199
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

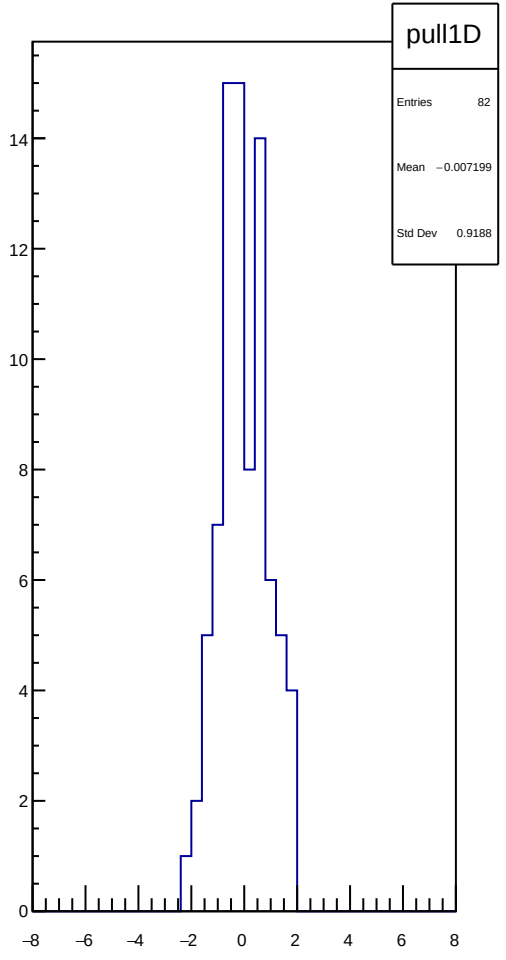

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 81
p0 4659 ± 3.666
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

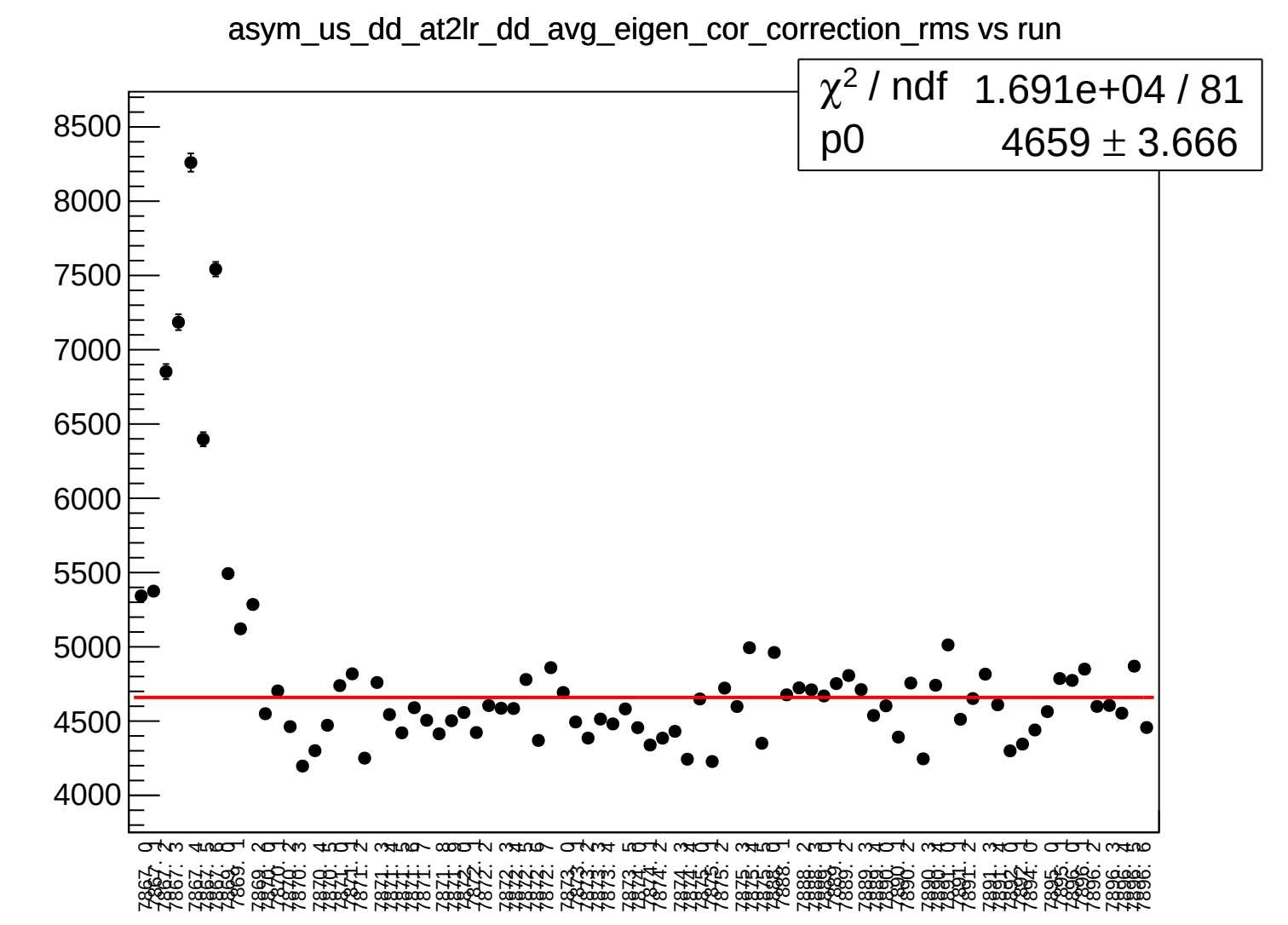

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 78.31 / 81
p0 −3275 ± 2442
×10³
pull
Entries 82
Mean −1708
Std Dev 0

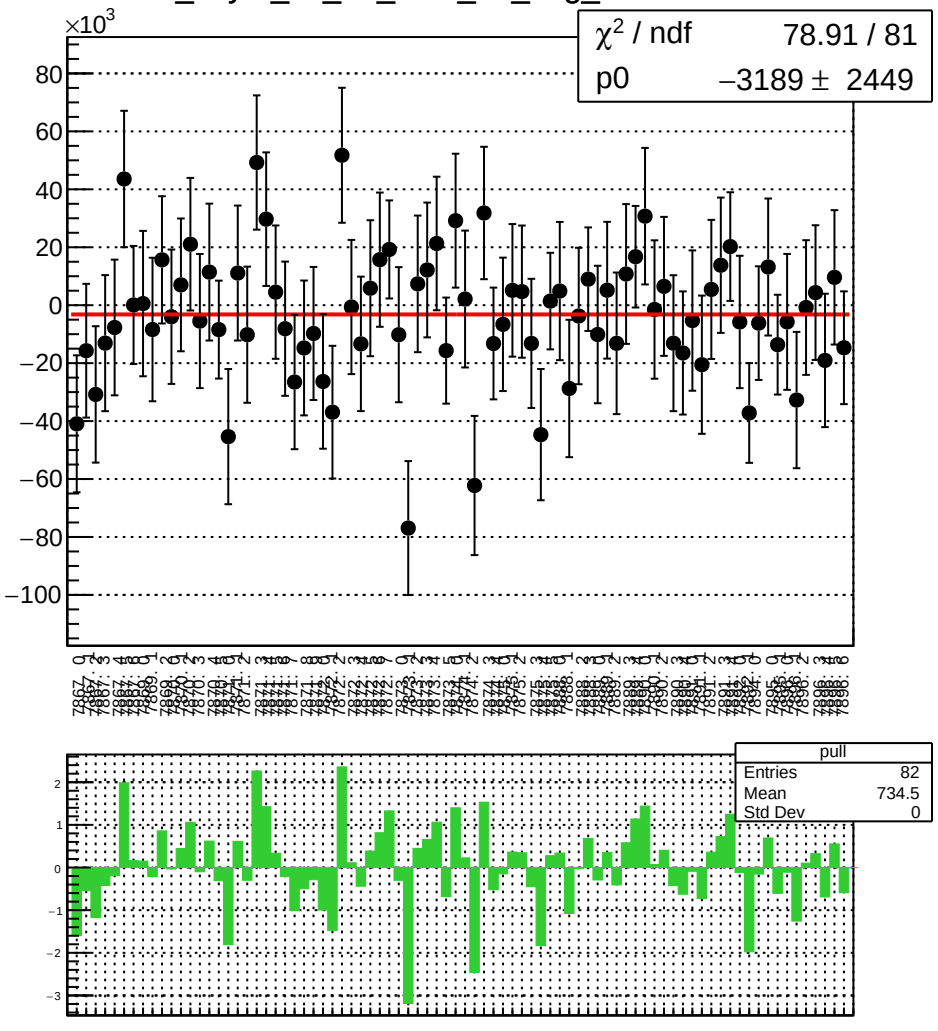

pull1D
Entries 82
Mean 0.000214
Std Dev 0.9772

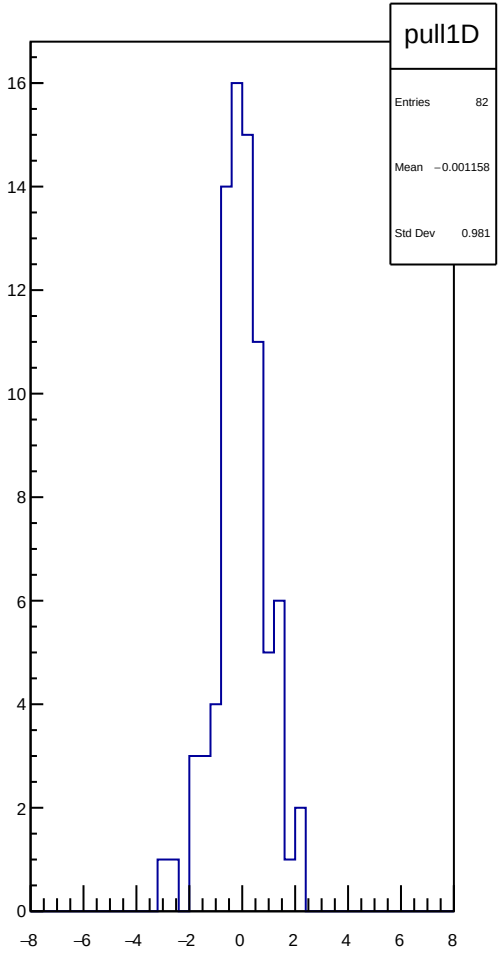

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 795.2 / 81
p0 2205 ± 1.727
2400
2350
2300
2250
2200
2150
2100
2050

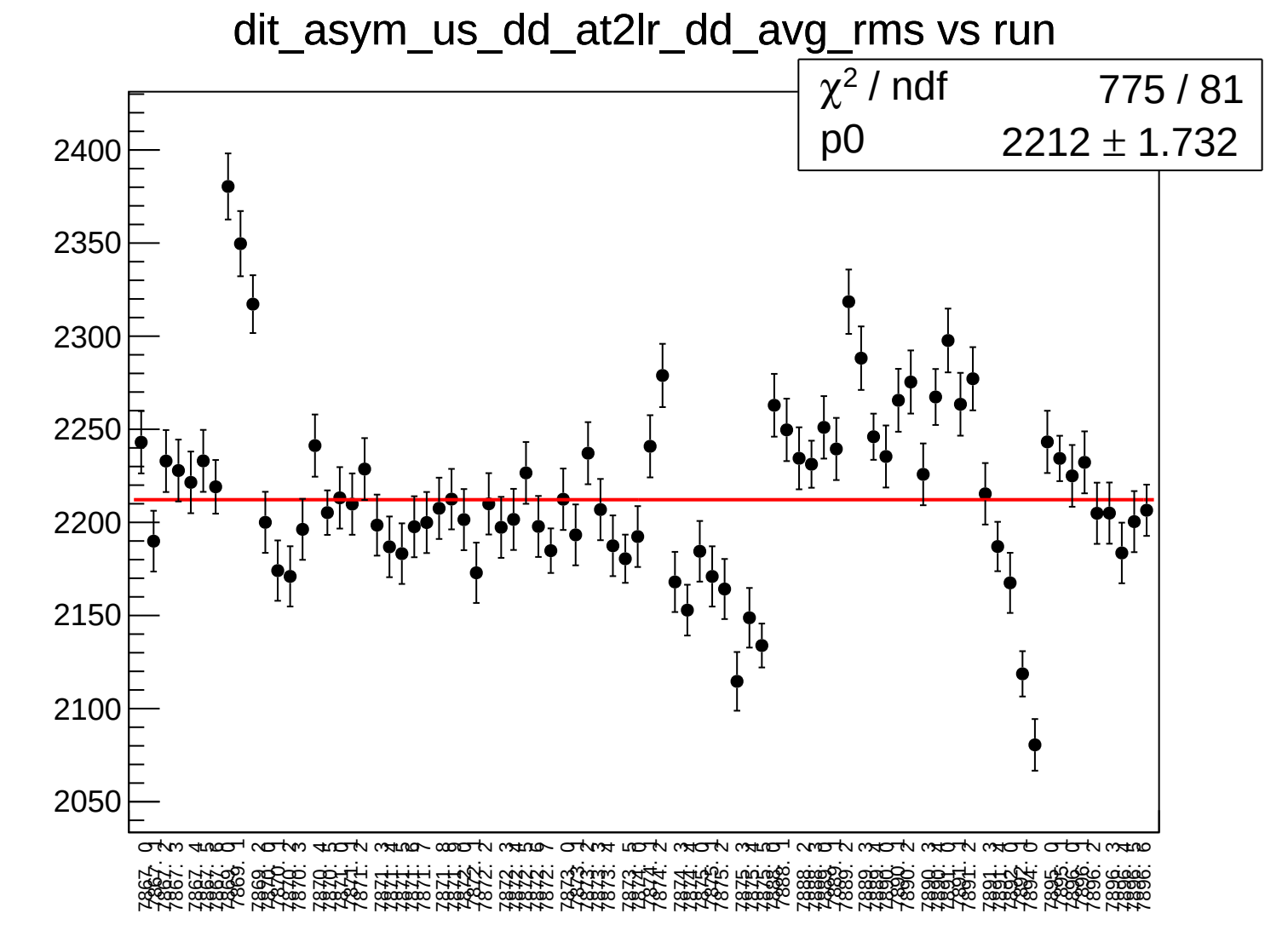

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.23 / 81
p0 −1747 ± 5184
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −149.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

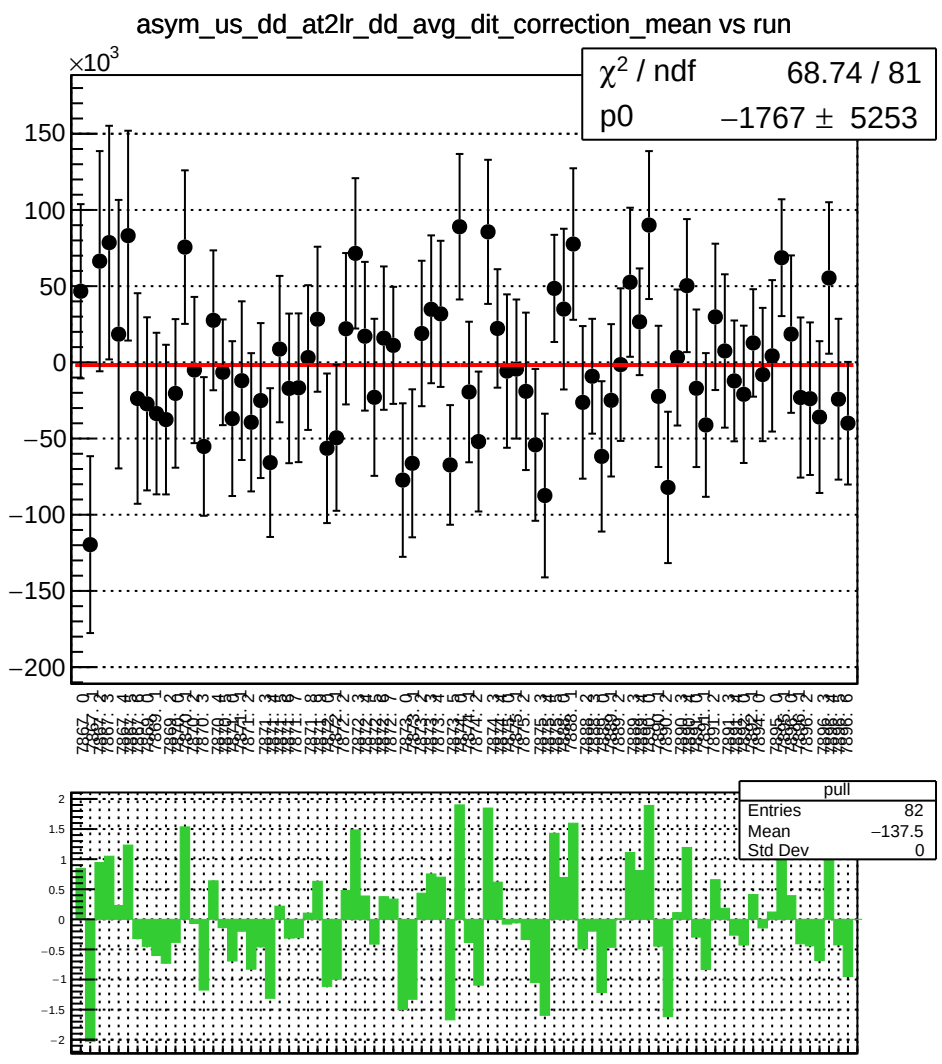

pull1D
Entries 82
Mean −0.007199
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

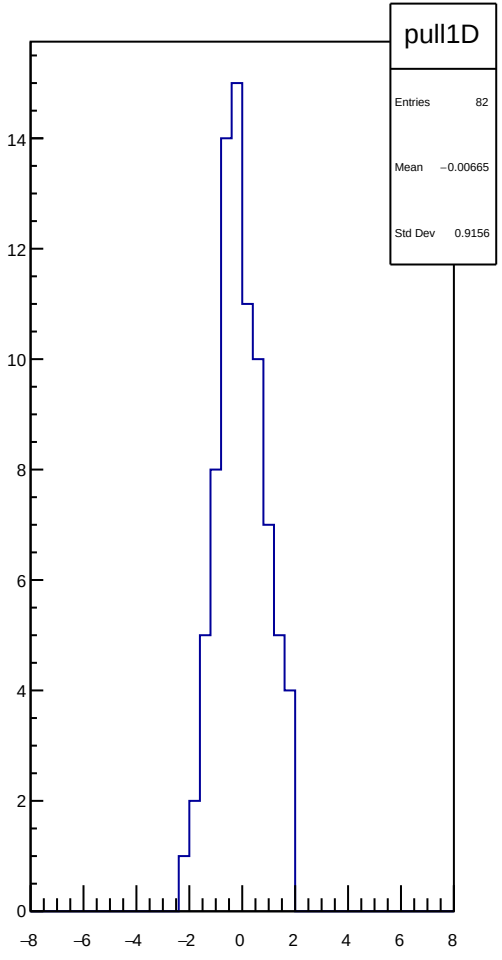

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 81
p0 4659 ± 3.666
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

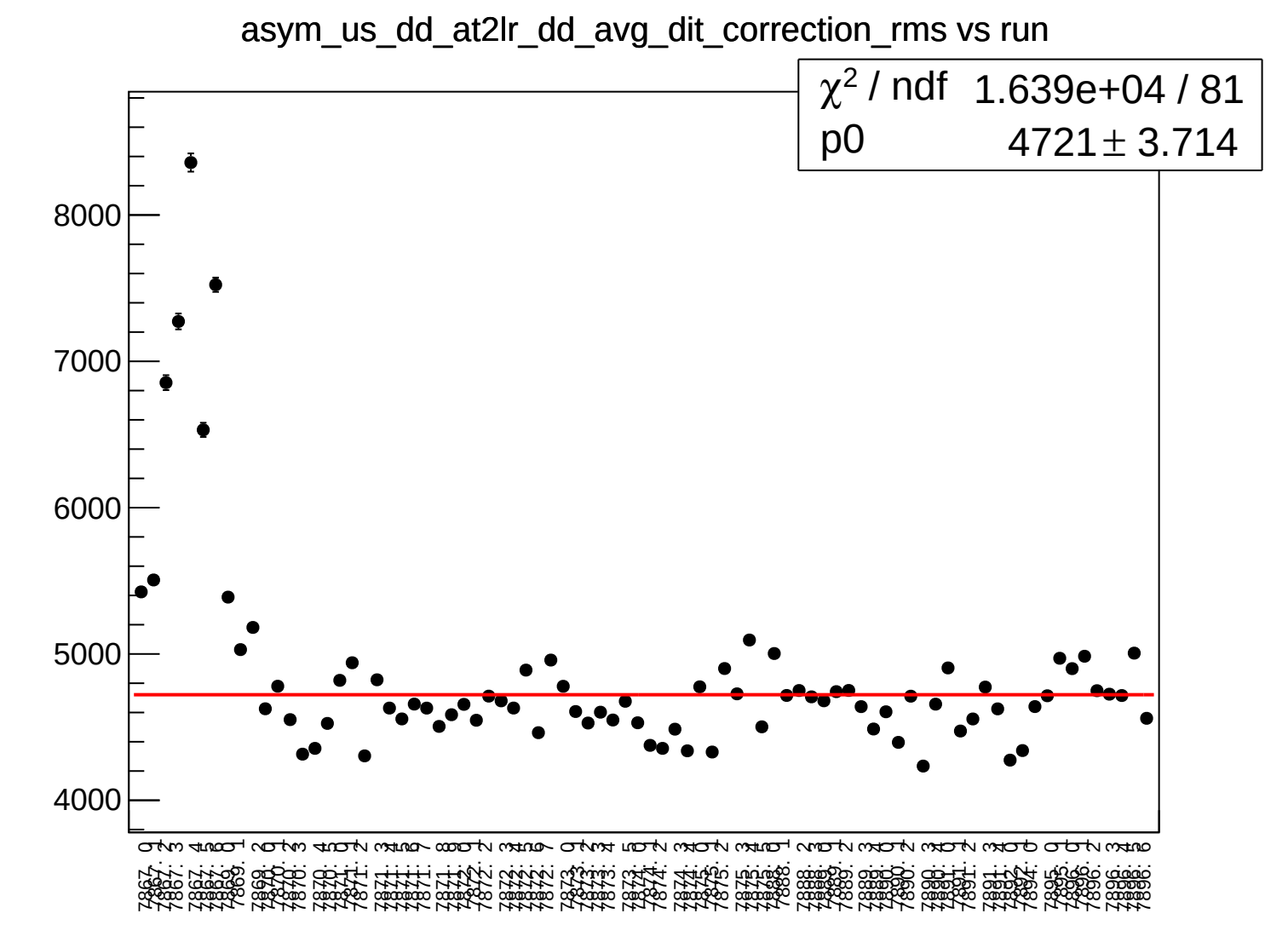

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ^2 / ndf 78.91 / 81
p0 −3189 ± 2449
×10^3
pull
Entries 82
Mean 734.5
Std Dev 0

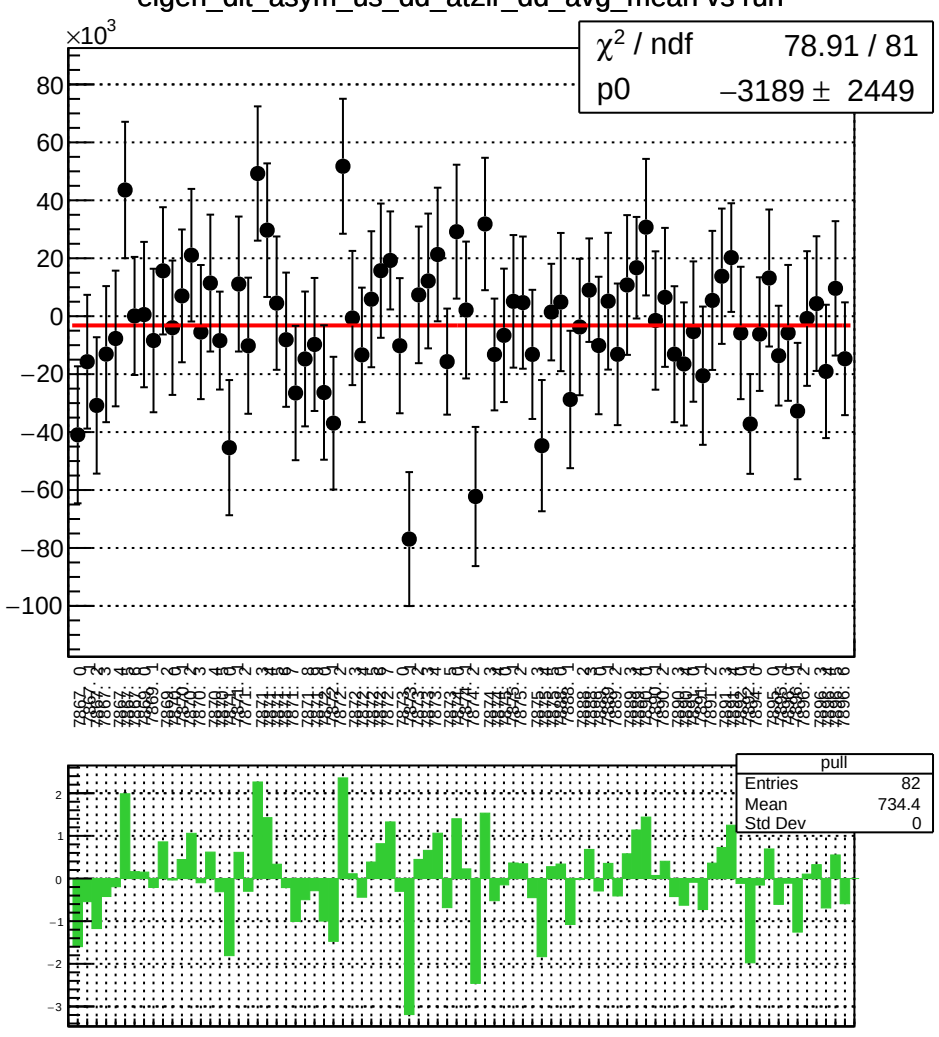

pull1D
Entries 82
Mean −0.001158
Std Dev 0.981

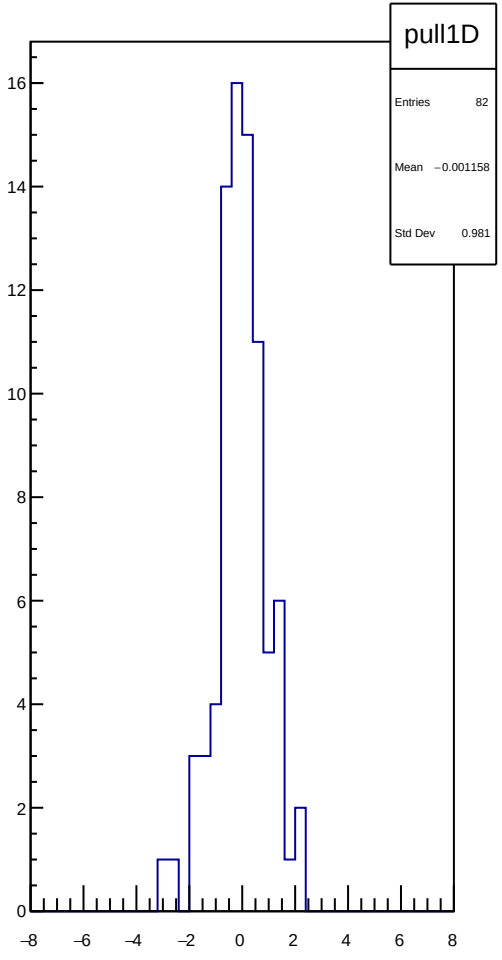

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 775 / 81
p0 2212 ± 1.732
2400
2350
2300
2250
2200
2150
2100
2050

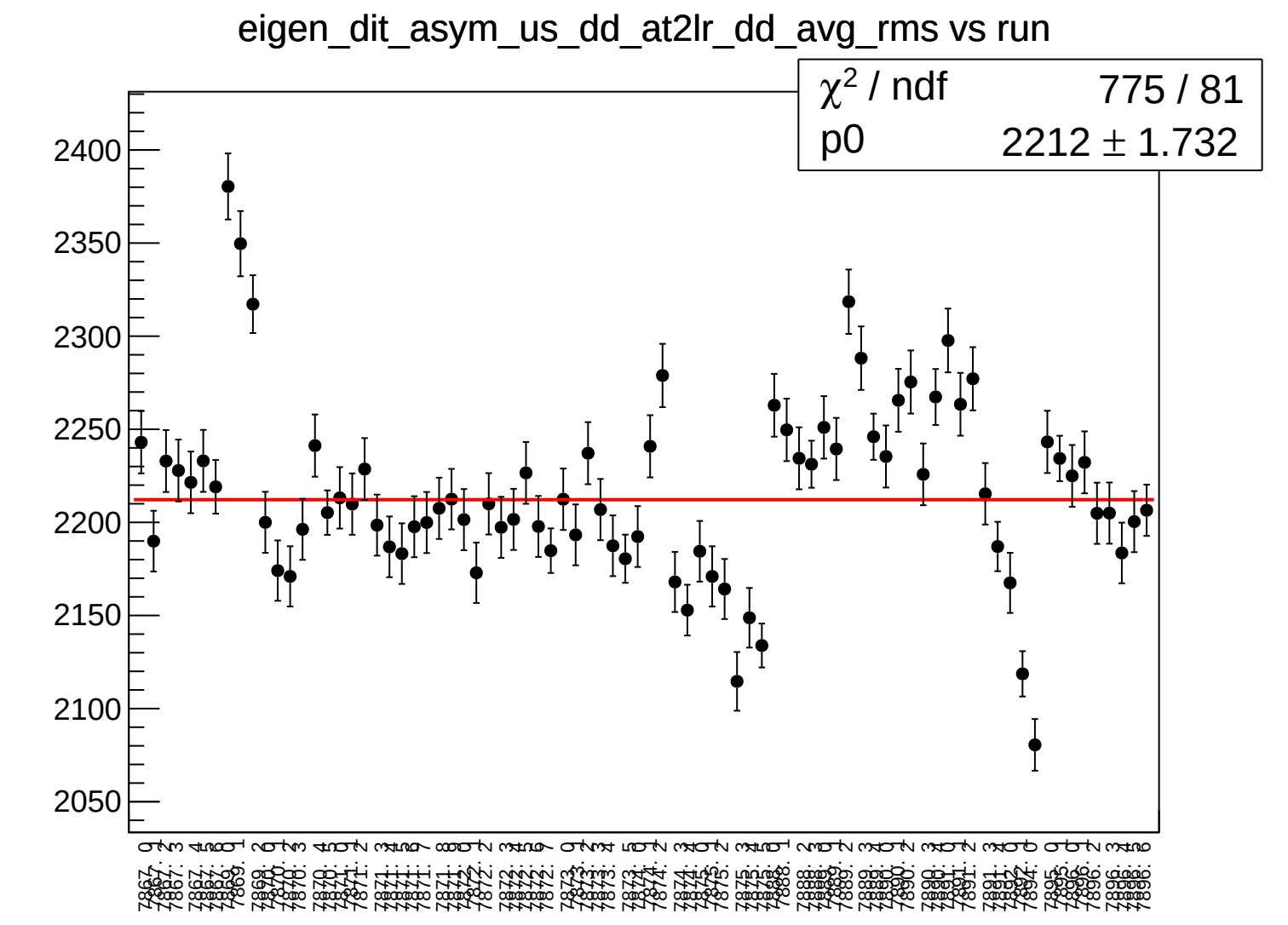

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.74 / 81
p0 −1767 ± 5253
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −137.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

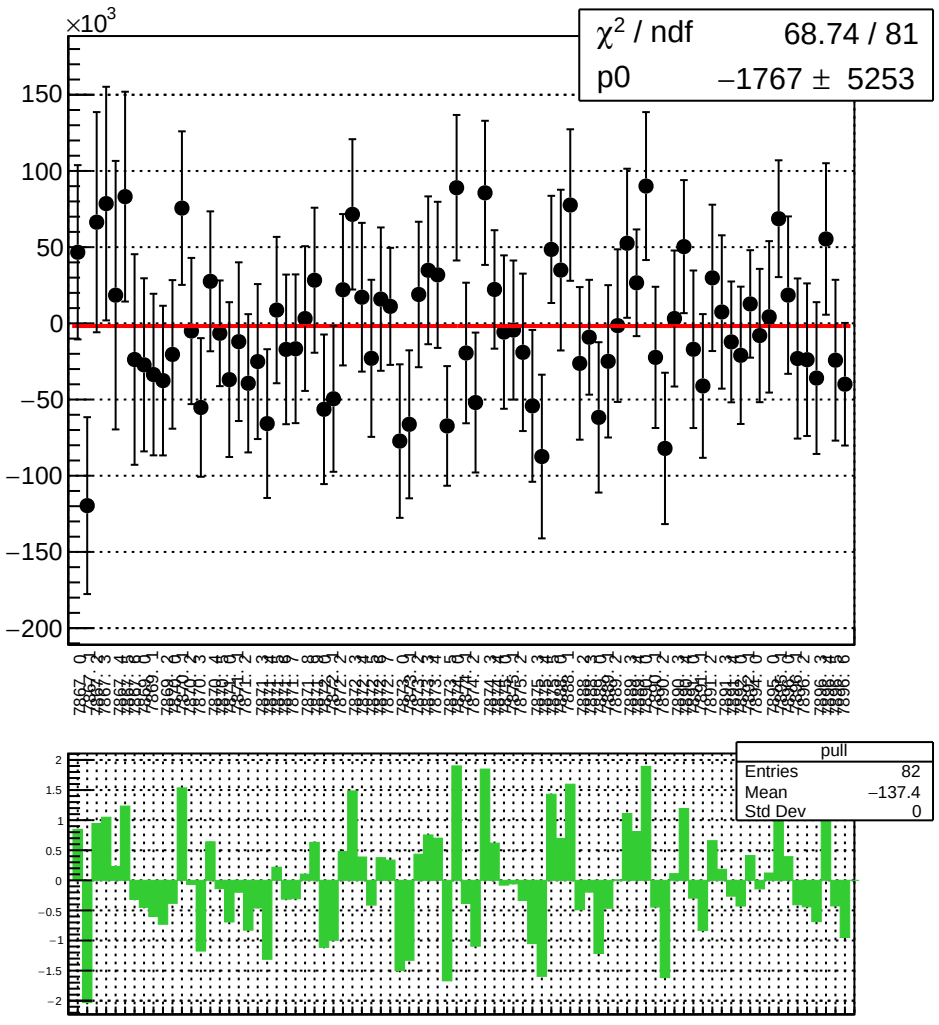

pull1D
Entries 82
Mean −0.00665
Std Dev 0.9156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

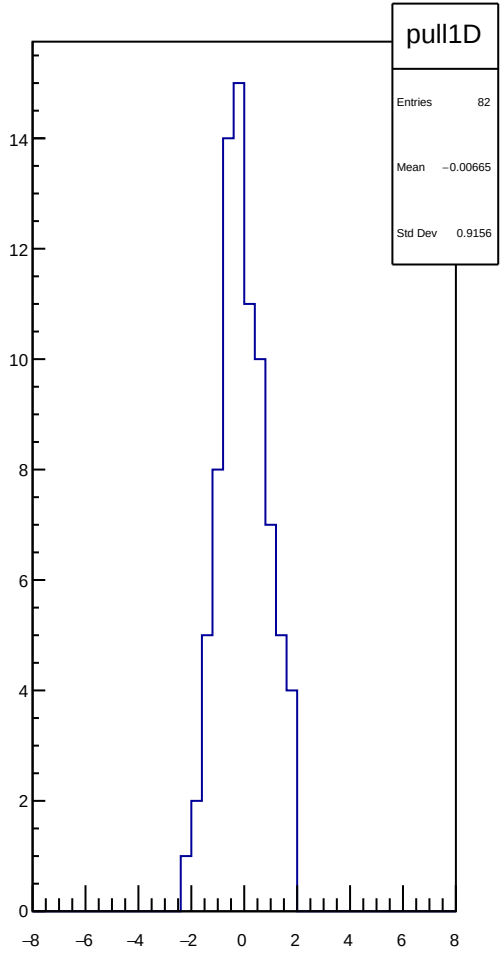

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.639e+04 / 81
p0 4721 ± 3.714
8000
7000
6000
5000
4000

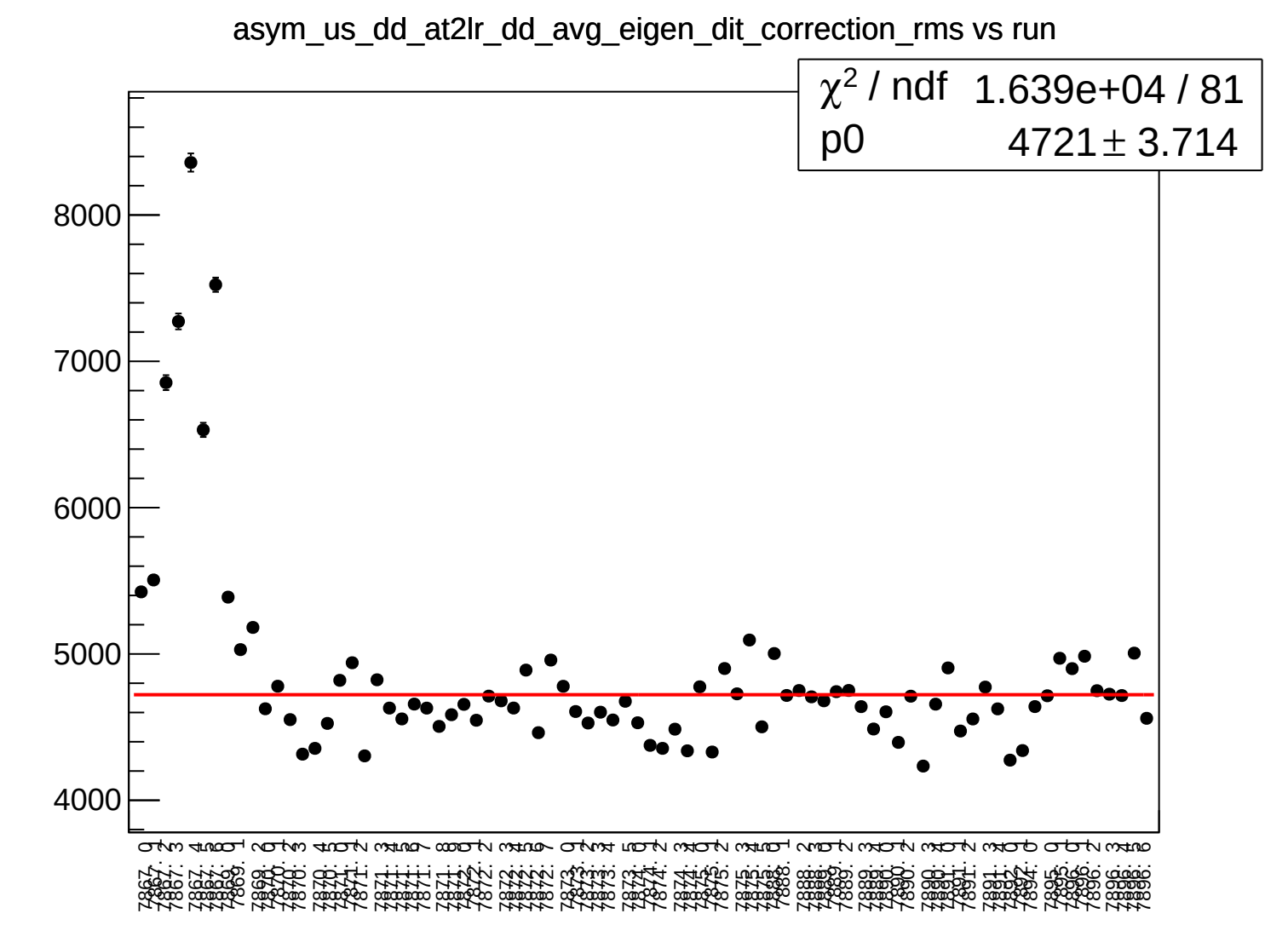

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 78.91 / 81
p0 −3189 ± 2449
×10³
pull
Entries 82
Mean 734.4
Std Dev 0

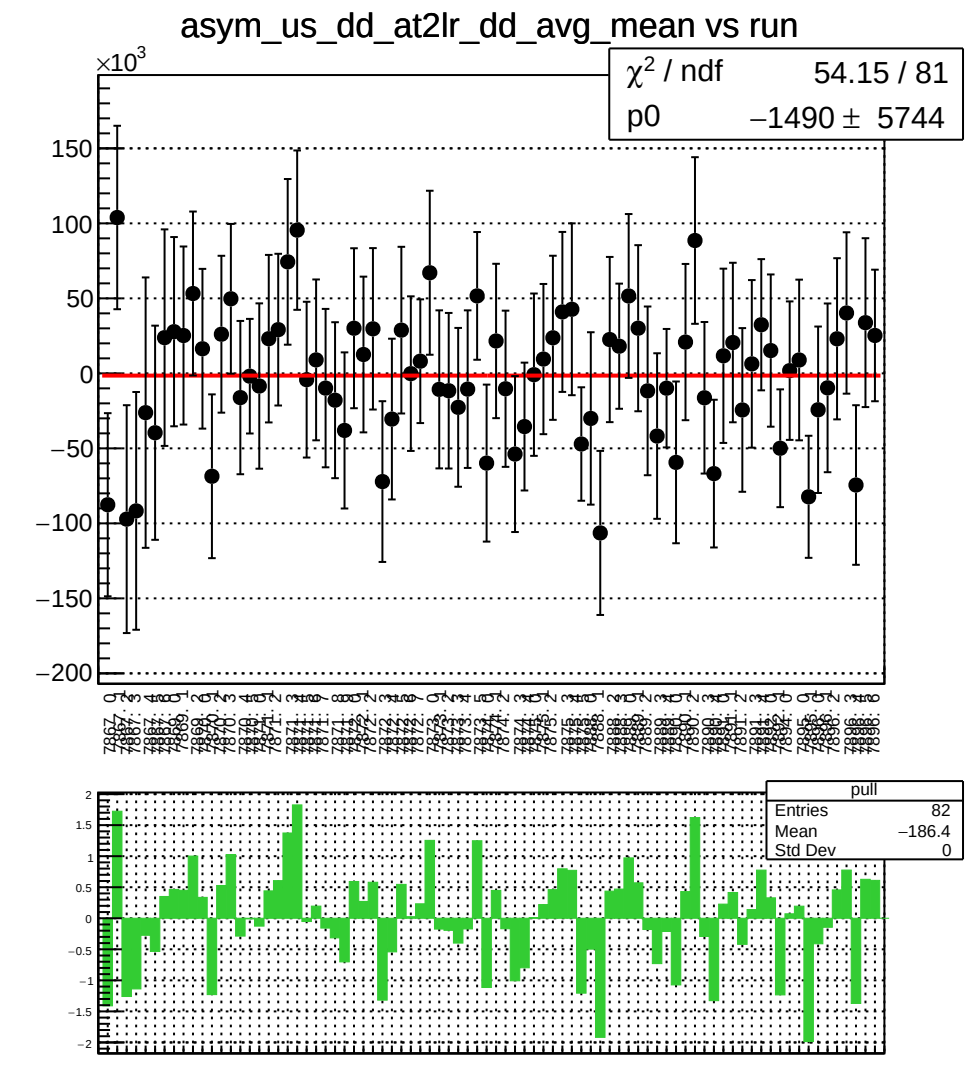

pull1D
Entries 82
Mean −0.001158
Std Dev 0.981

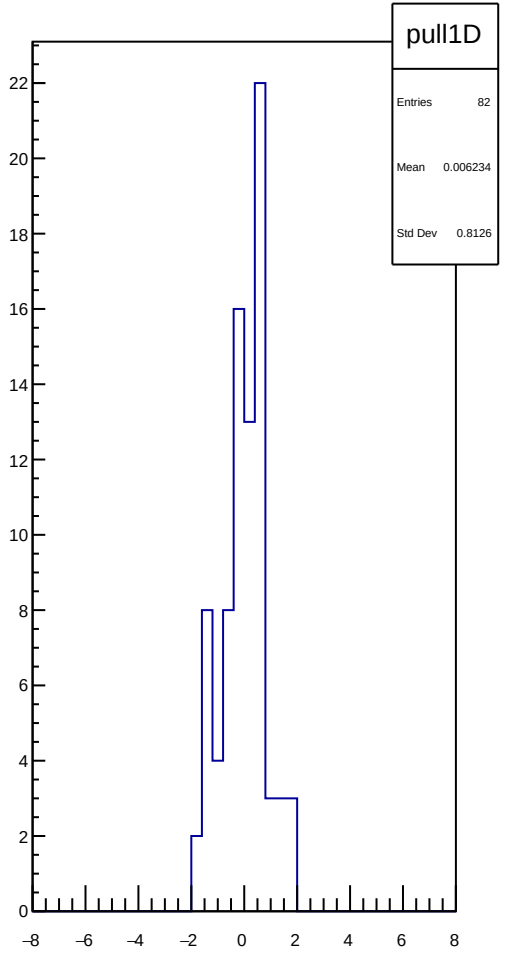

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 775 / 81
p0 2212 ± 1.732
2400
2350
2300
2250
2200
2150
2100
2050

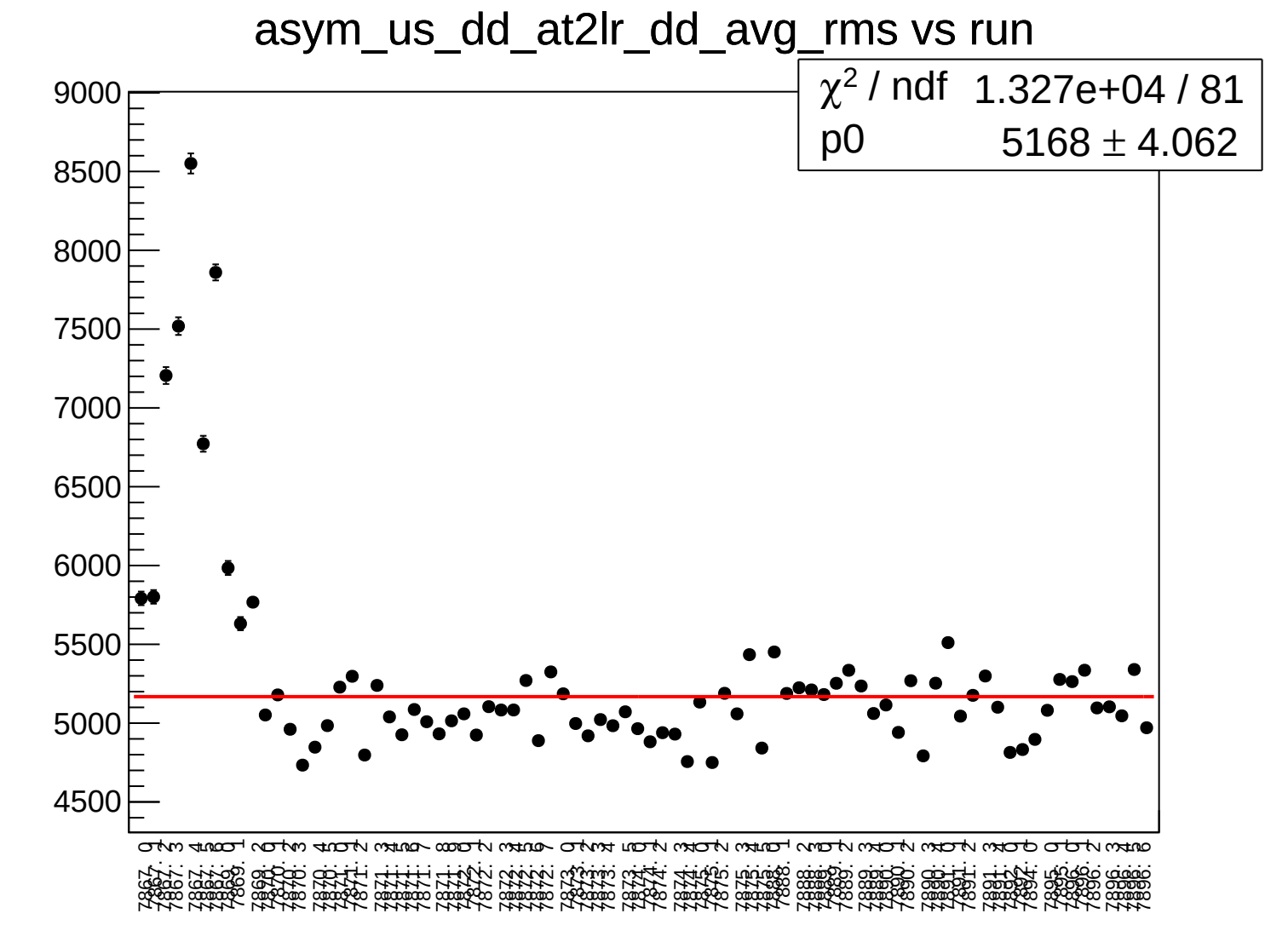

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.74 / 81
p0 −1767 ± 5253
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −137.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

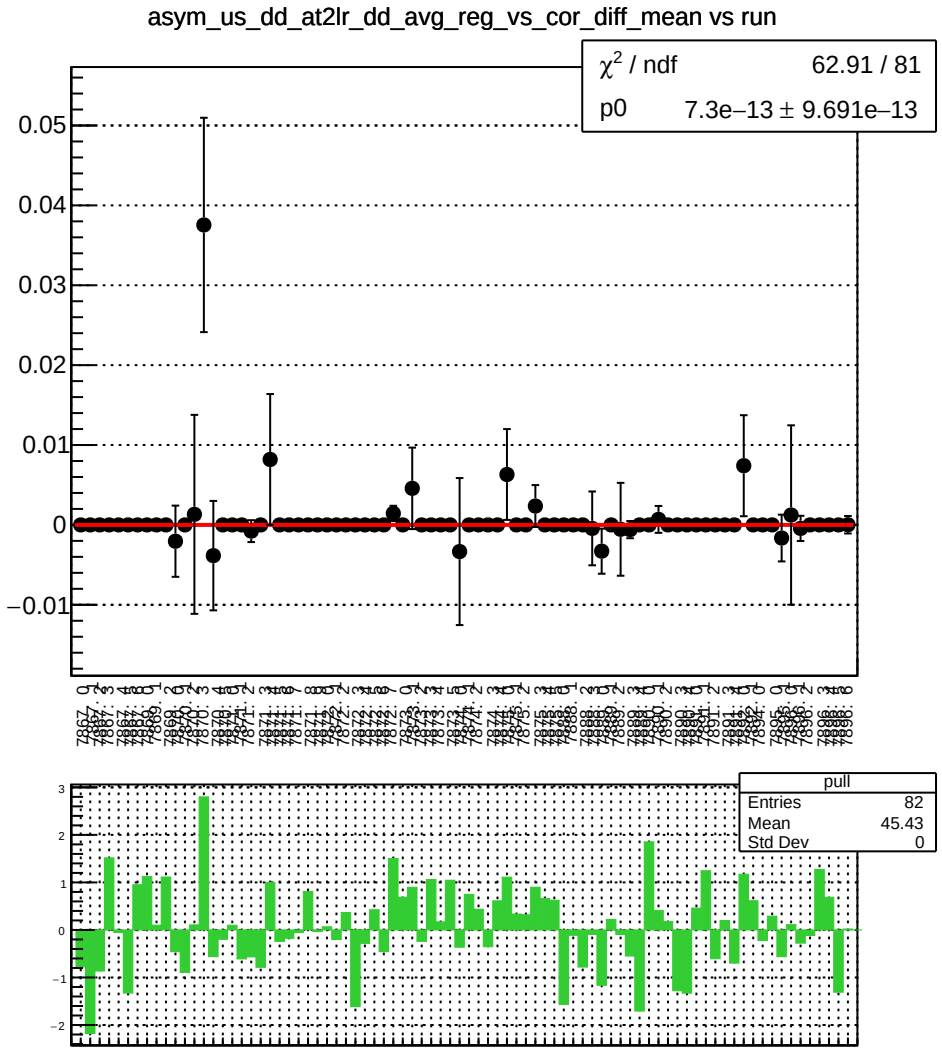

pull1D
Entries 82
Mean −0.00665
Std Dev 0.9156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

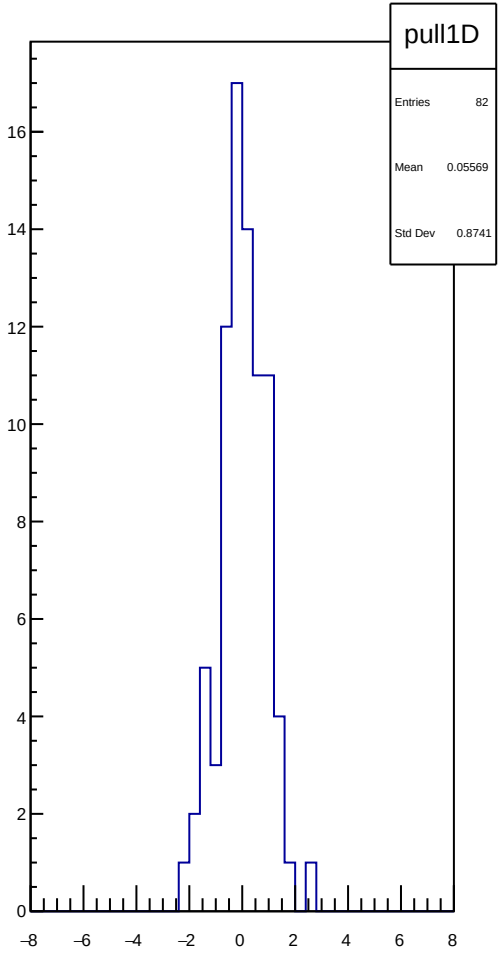

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.639e+04 / 81
p0 4721 ± 3.714
8000
7000
6000
5000
4000

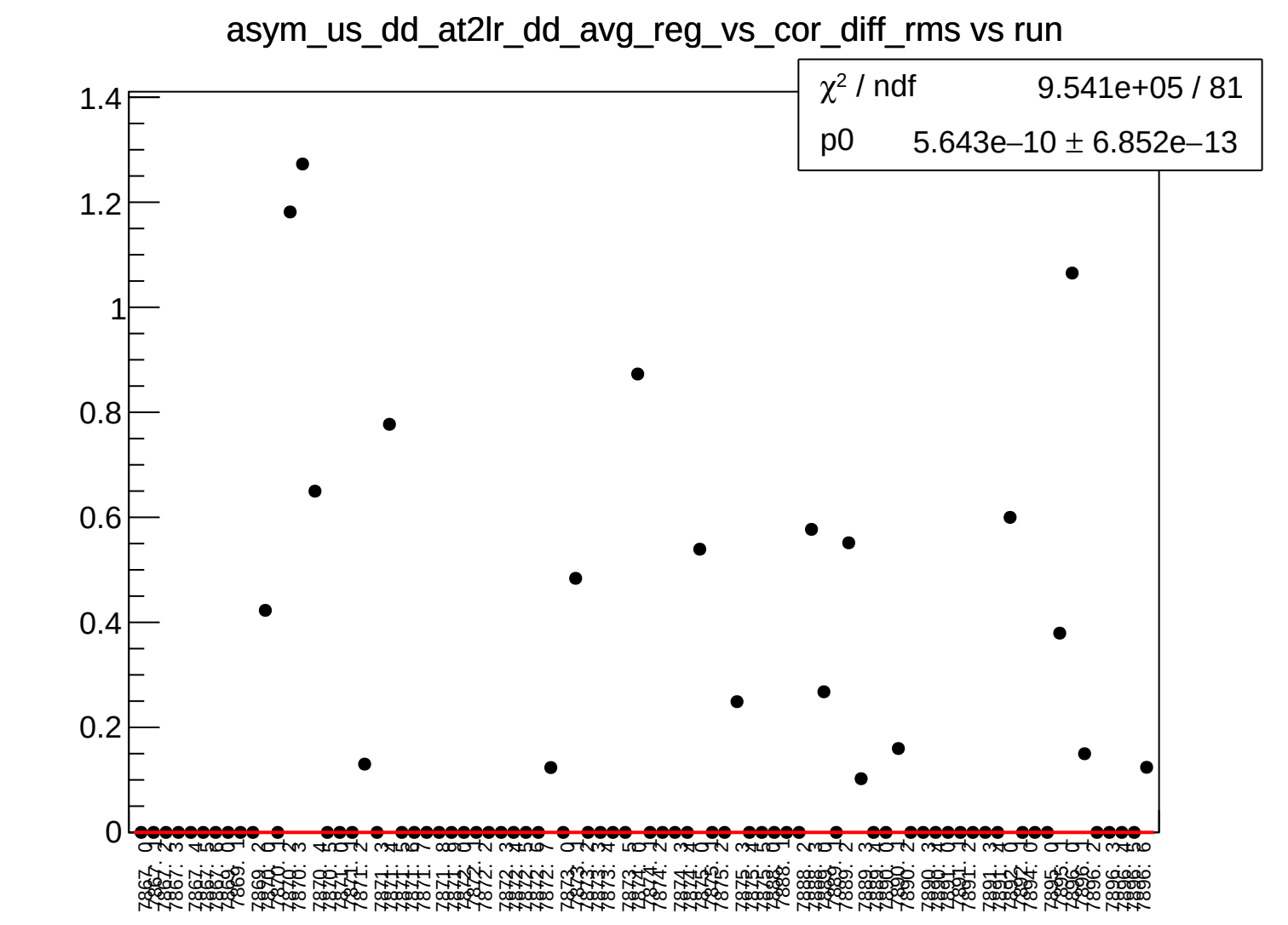

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 54.15 / 81
p0 −1490 ± 5744
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −186.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

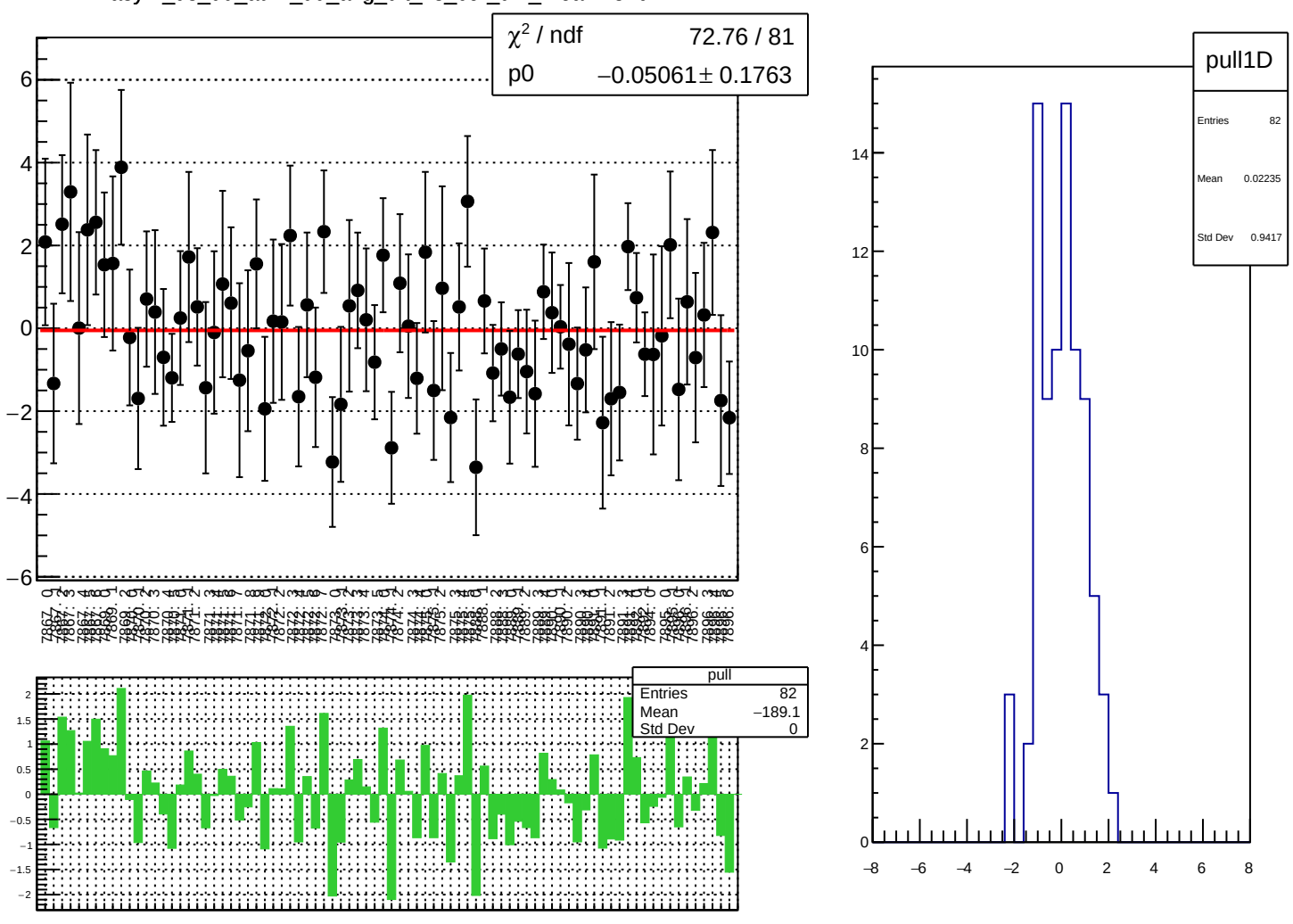

pull1D
Entries 82
Mean 0.006234
Std Dev 0.8126
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

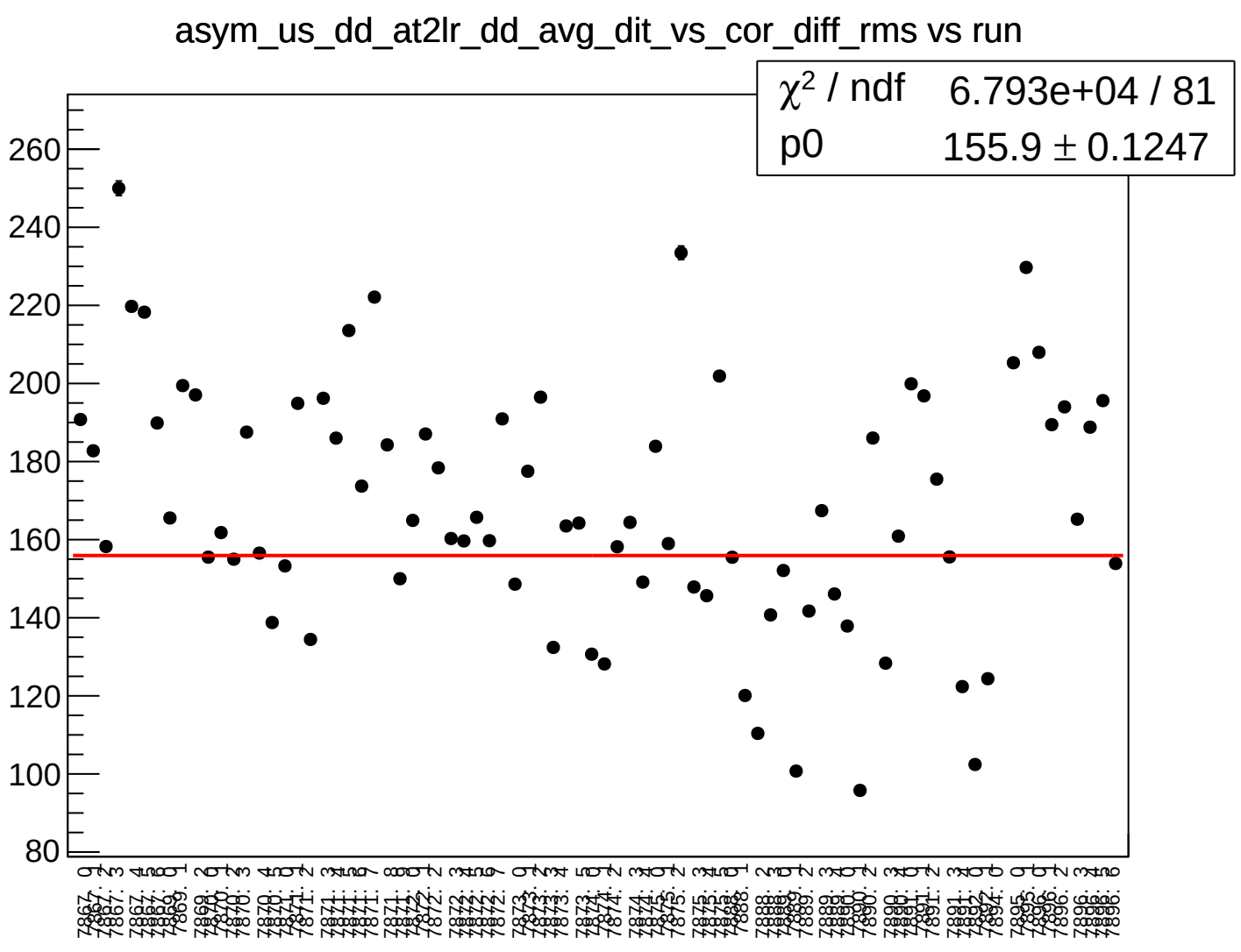

asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 1.327e+04 / 81
p0 5168 ± 4.062
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

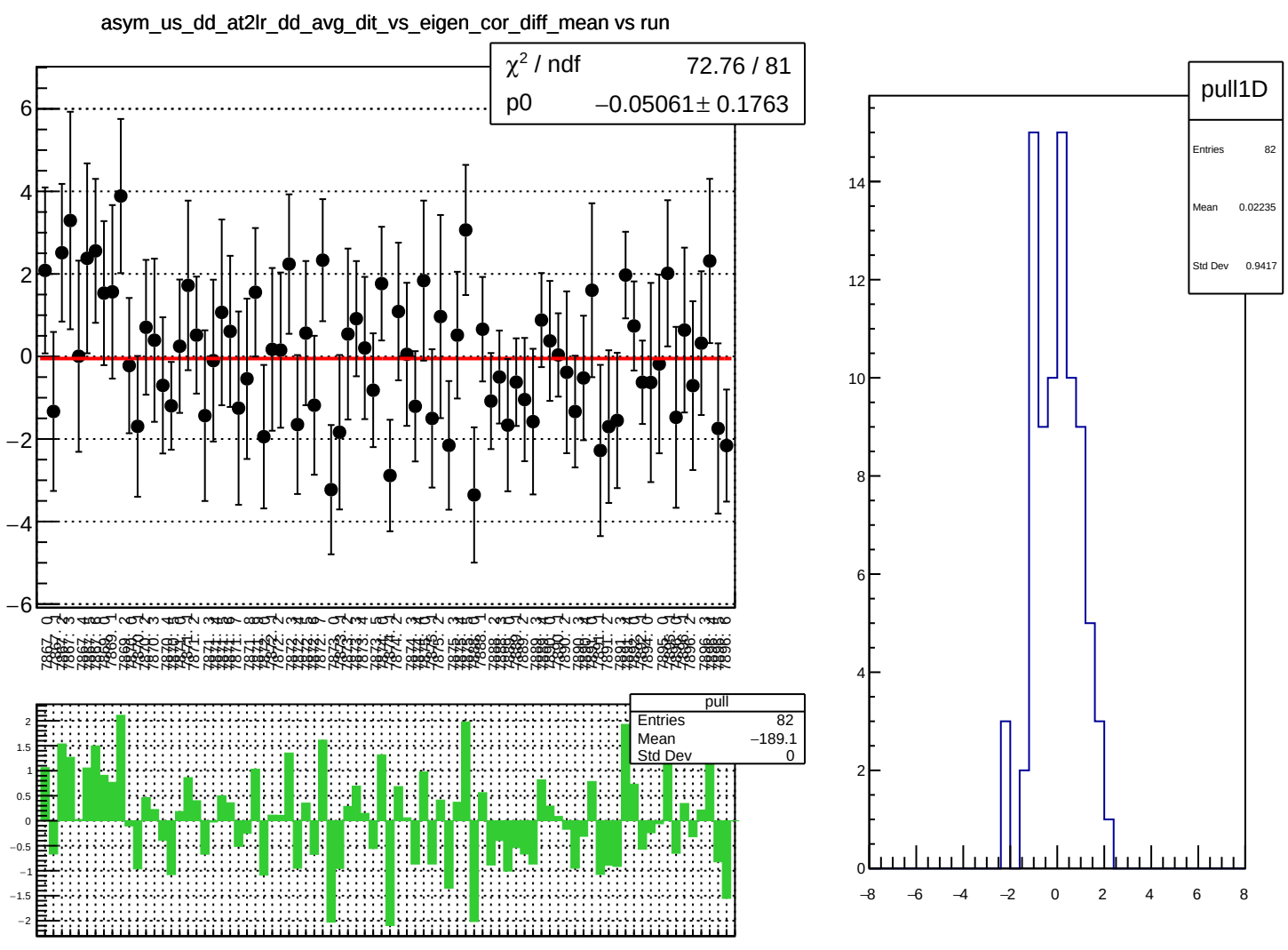

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.91 / 81
p0 7.3e−13 ± 9.691e−13
pull
Entries 82
Mean 45.43
Std Dev 0

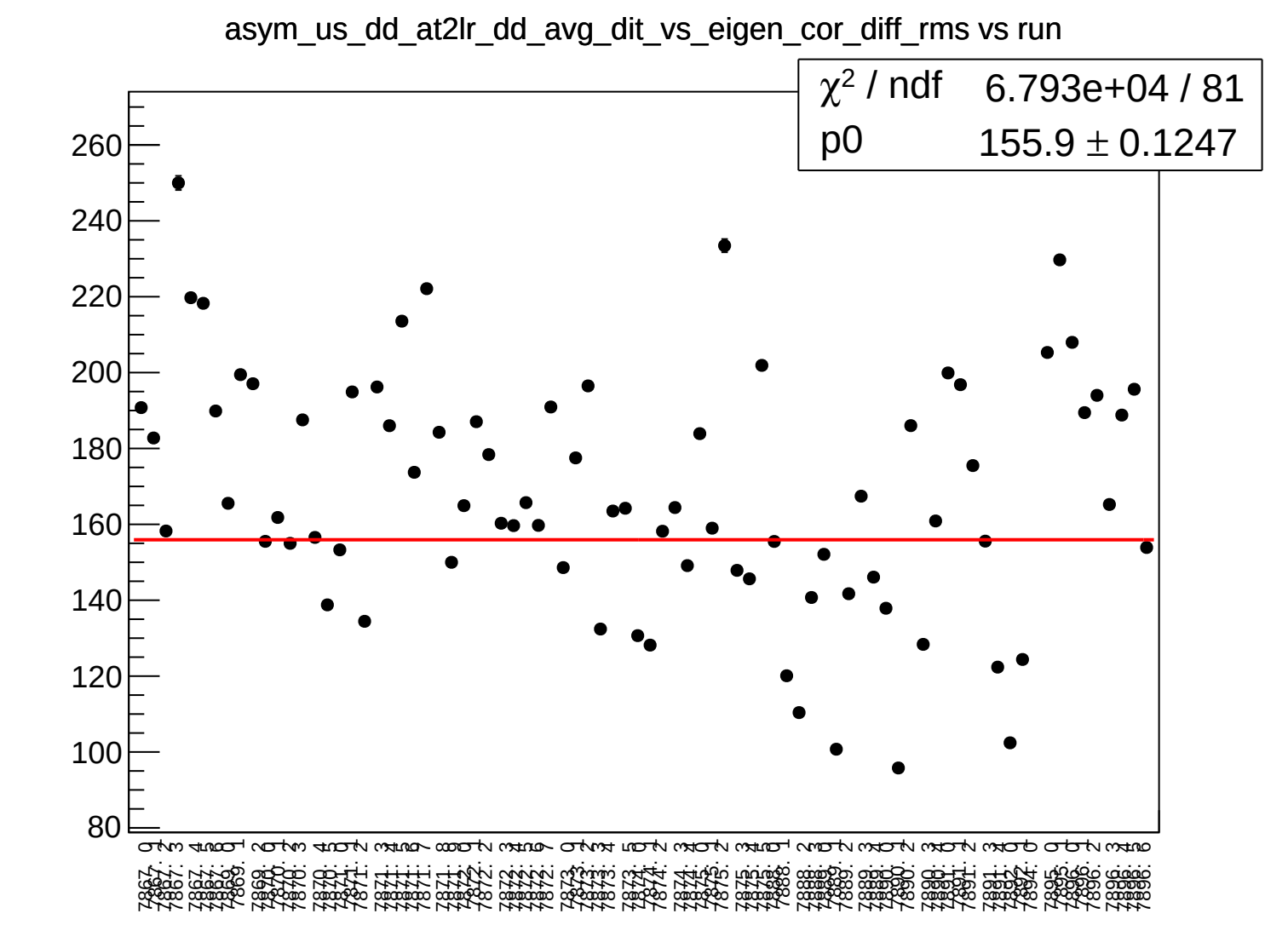

pull1D
Entries 82
Mean 0.05569
Std Dev 0.8741

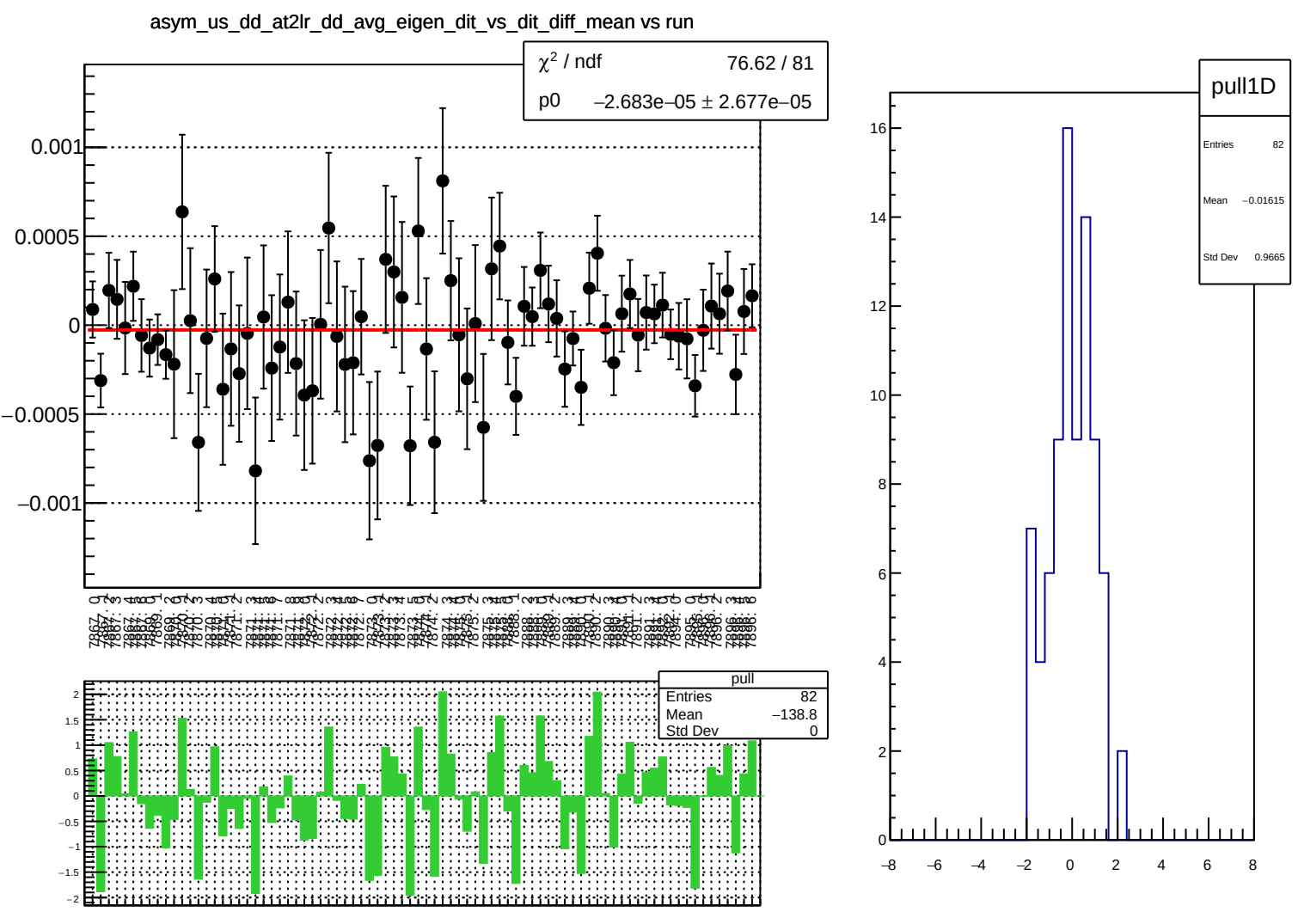

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.541e+05 / 81
p0 5.643e−10 ± 6.852e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

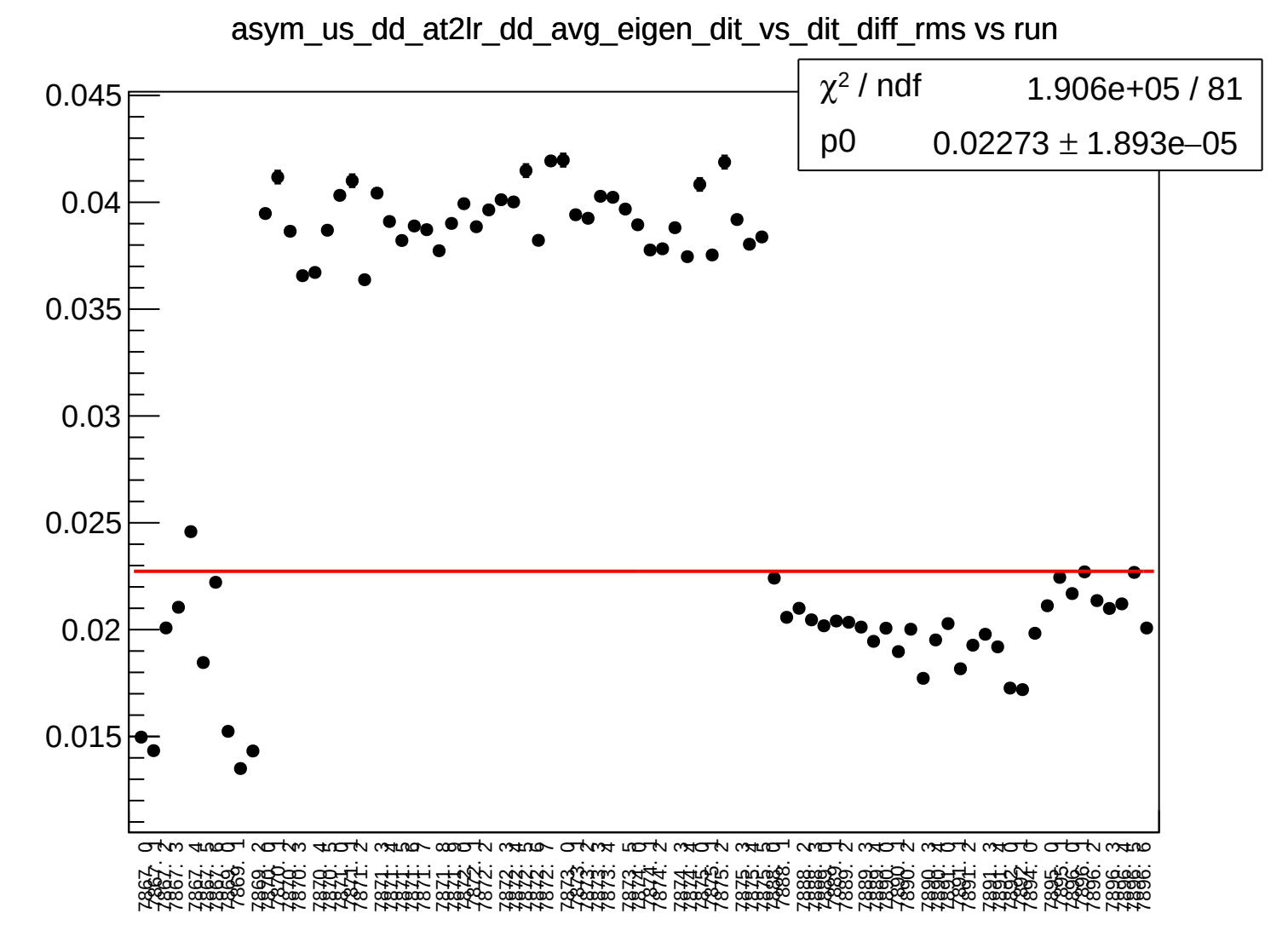

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.76 / 81
p0 −0.05061 ± 0.1763
pull
Entries 82
Mean −189.1
Std Dev 0
pull1D
Entries 82
Mean 0.02235
Std Dev 0.9417

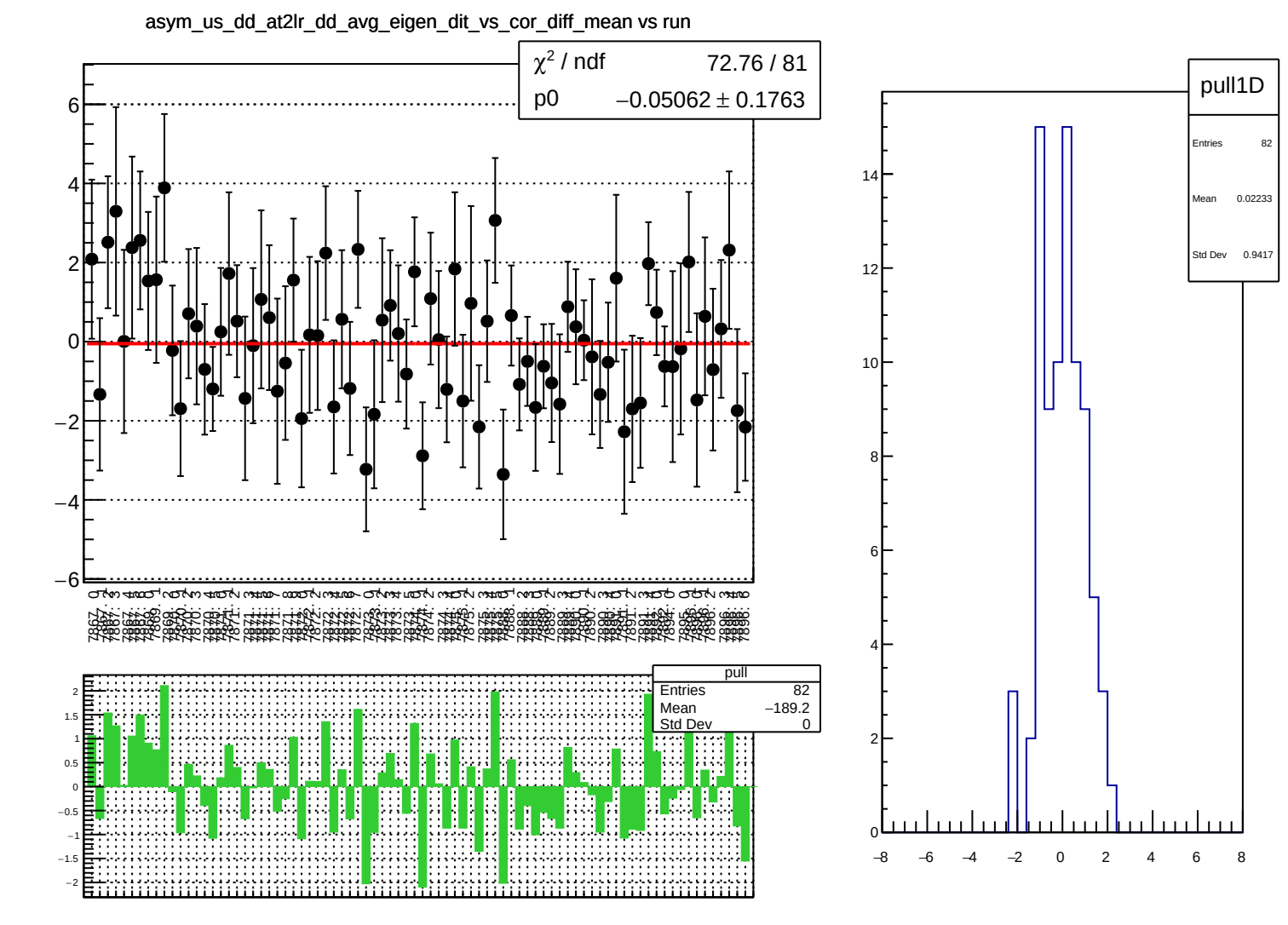

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.793e+04 / 81
p0 155.9 ± 0.1247
260
240
220
200
180
160
140
120
100
80

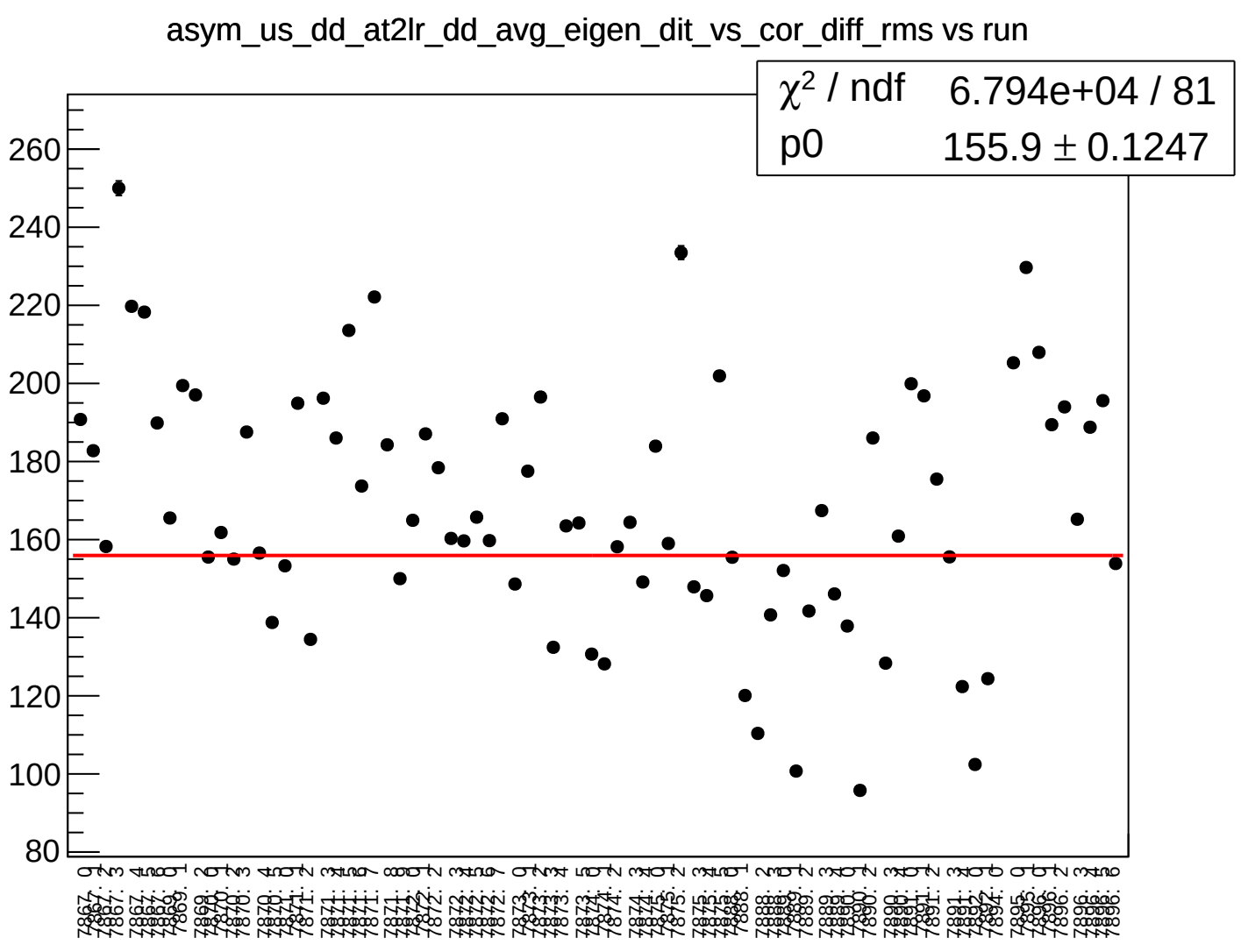

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.76 / 81
p0 −0.05061 ± 0.1763
pull
Entries 82
Mean −189.1
Std Dev 0
pull1D
Entries 82
Mean 0.02235
Std Dev 0.9417

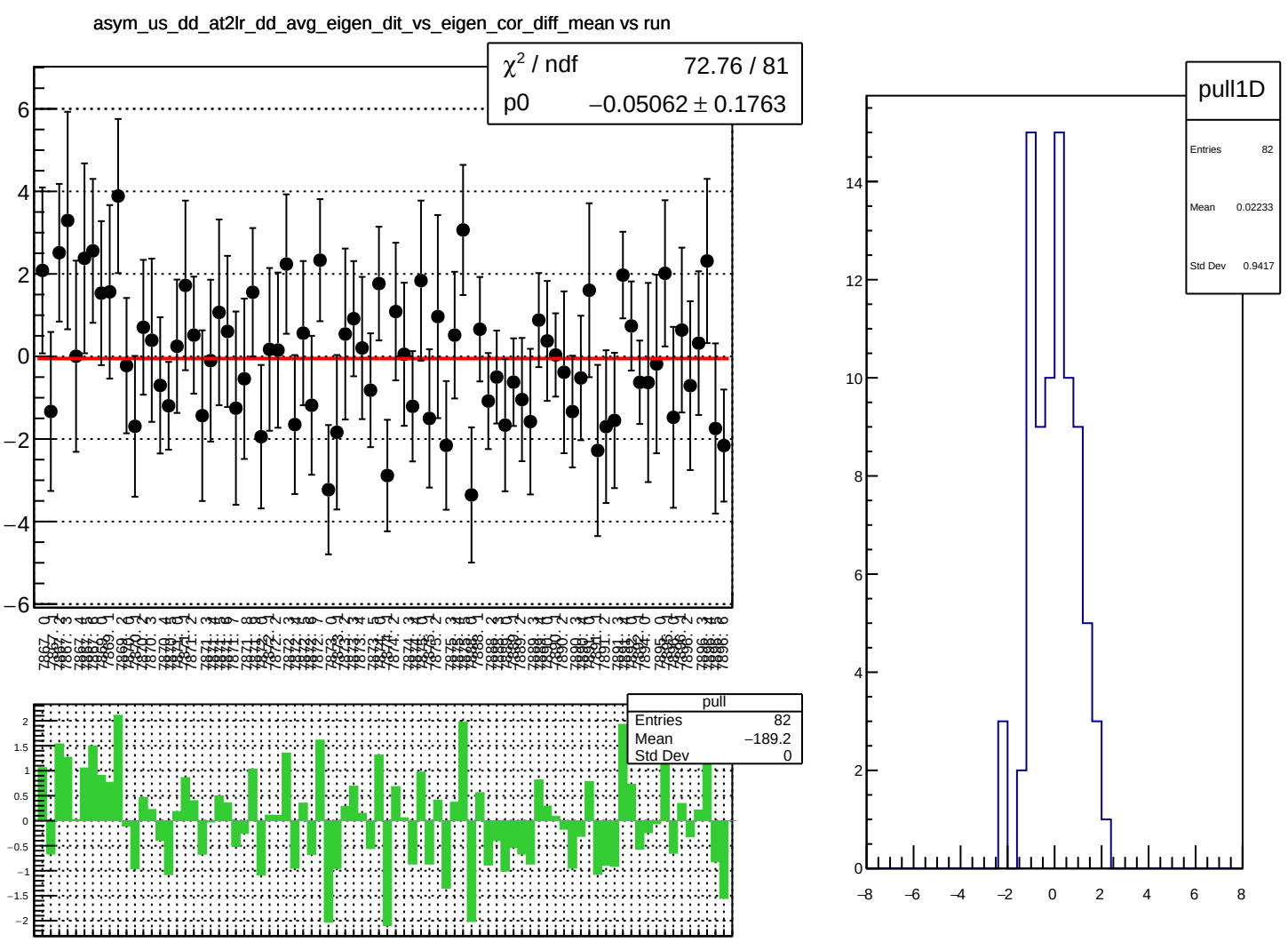

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.793e+04 / 81
p0 155.9 ± 0.1247
260
240
220
200
180
160
140
120
100
80

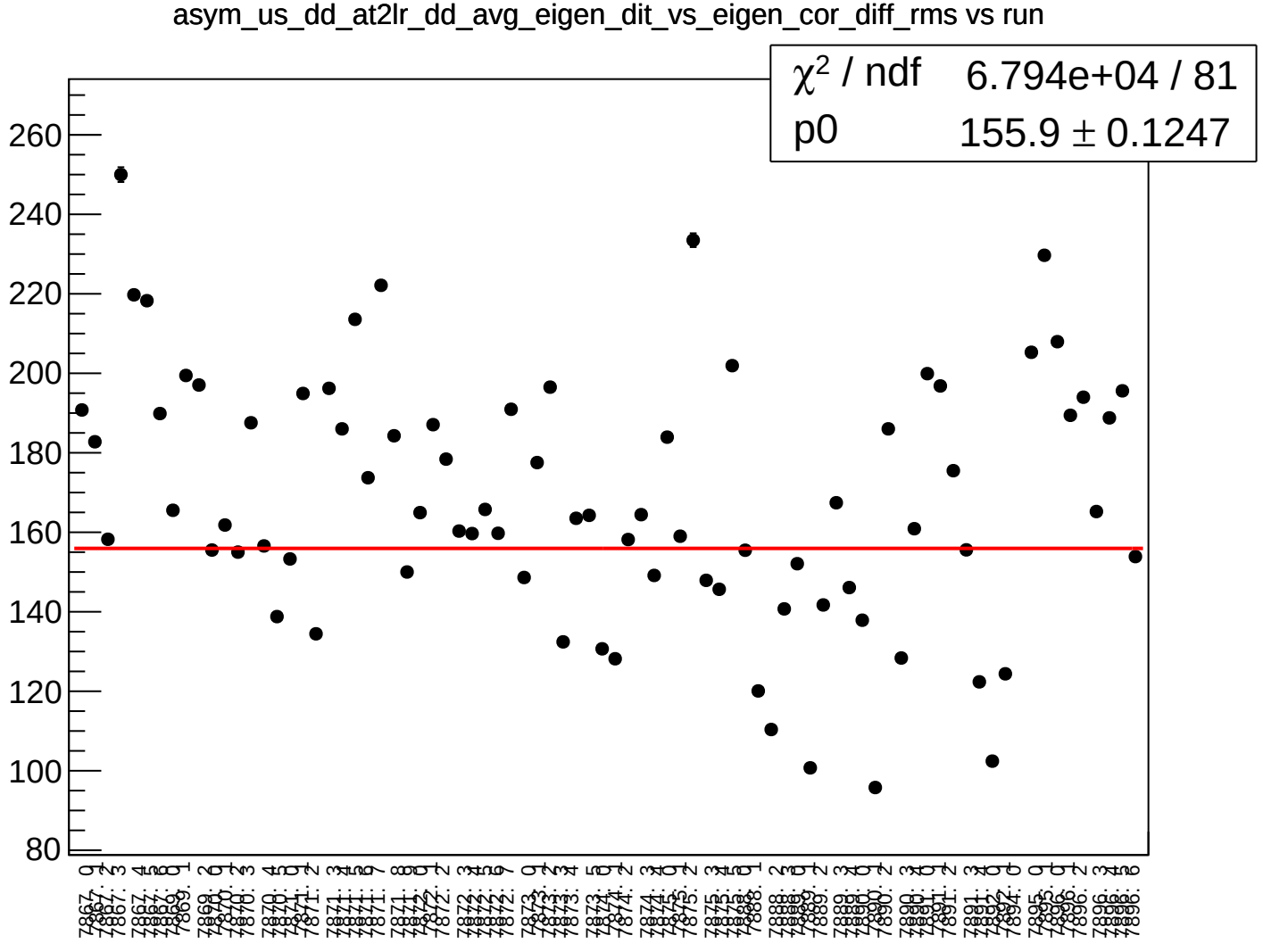

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.62 / 81
p0 −2.683e−05 ± 2.677e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean −138.8
Std Dev 0
pull1D
Entries 82
Mean −0.01615
Std Dev 0.9665

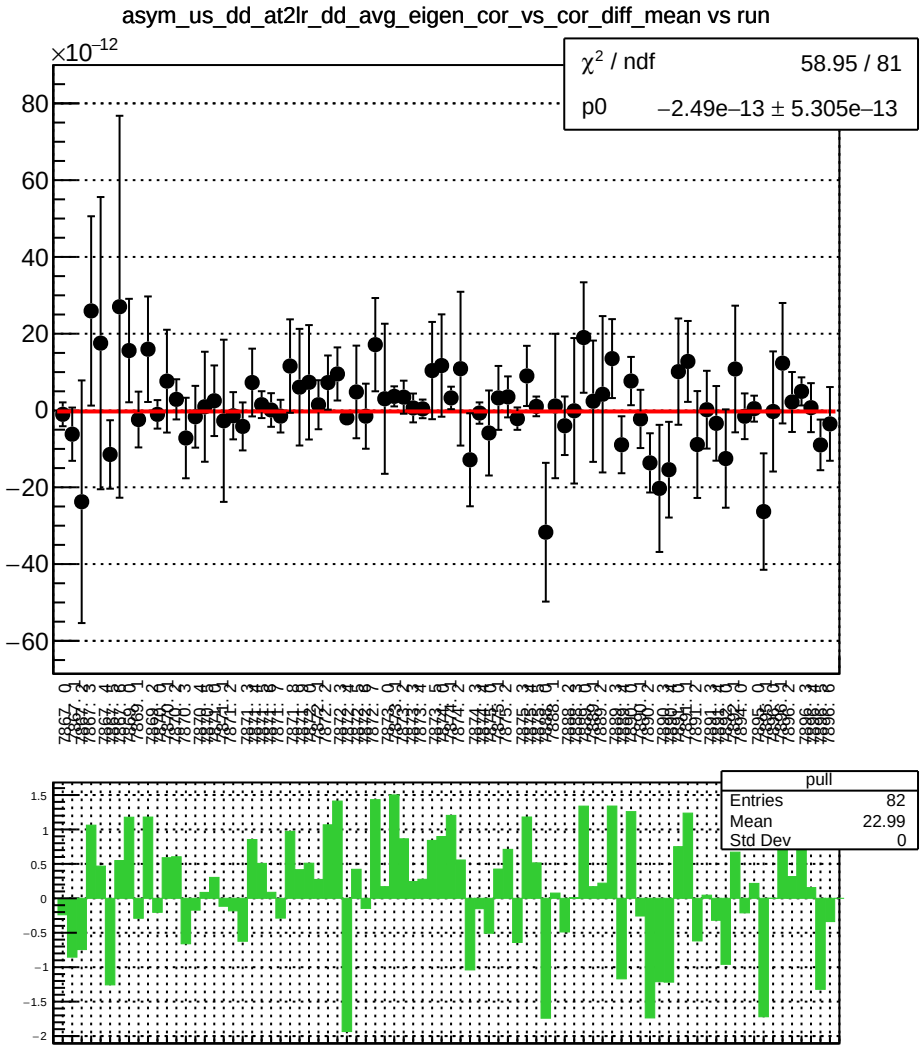

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.906e+05 / 81
p0 0.02273 ± 1.893e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

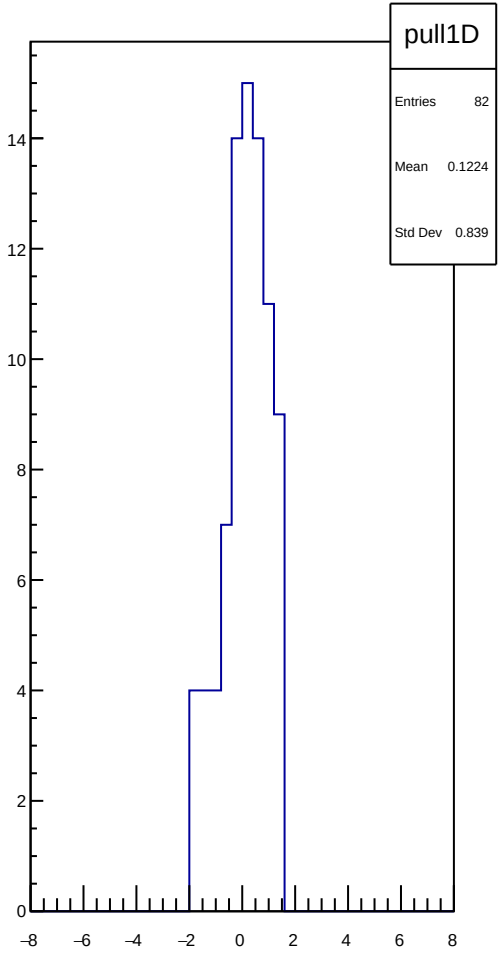

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.76 / 81
p0 −0.05062 ± 0.1763
pull
Entries 82
Mean −189.2
Std Dev 0
pull1D
Entries 82
Mean 0.02233
Std Dev 0.9417

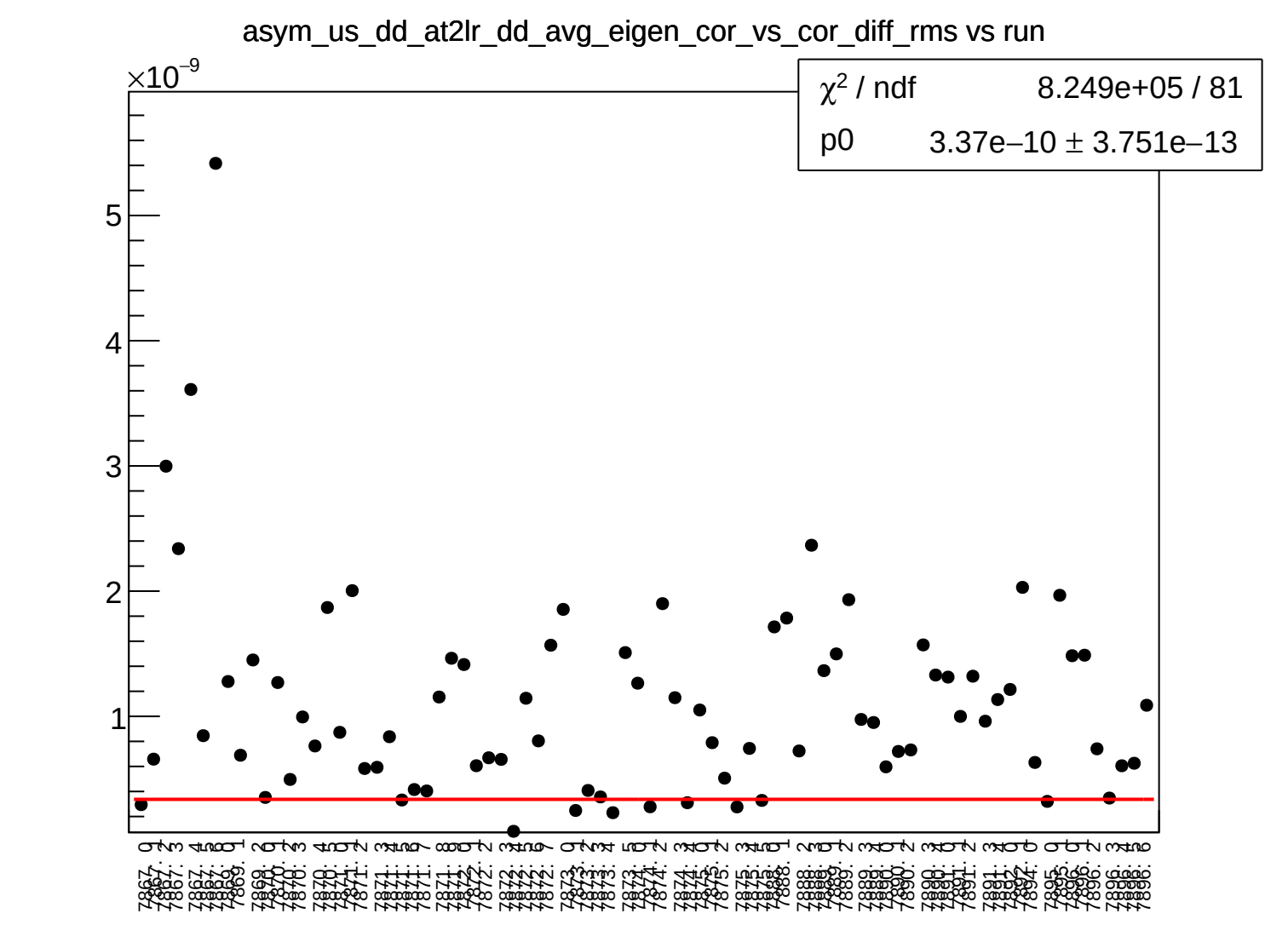

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.794e+04 / 81
p0 155.9 ± 0.1247
260
240
220
200
180
160
140
120
100
80

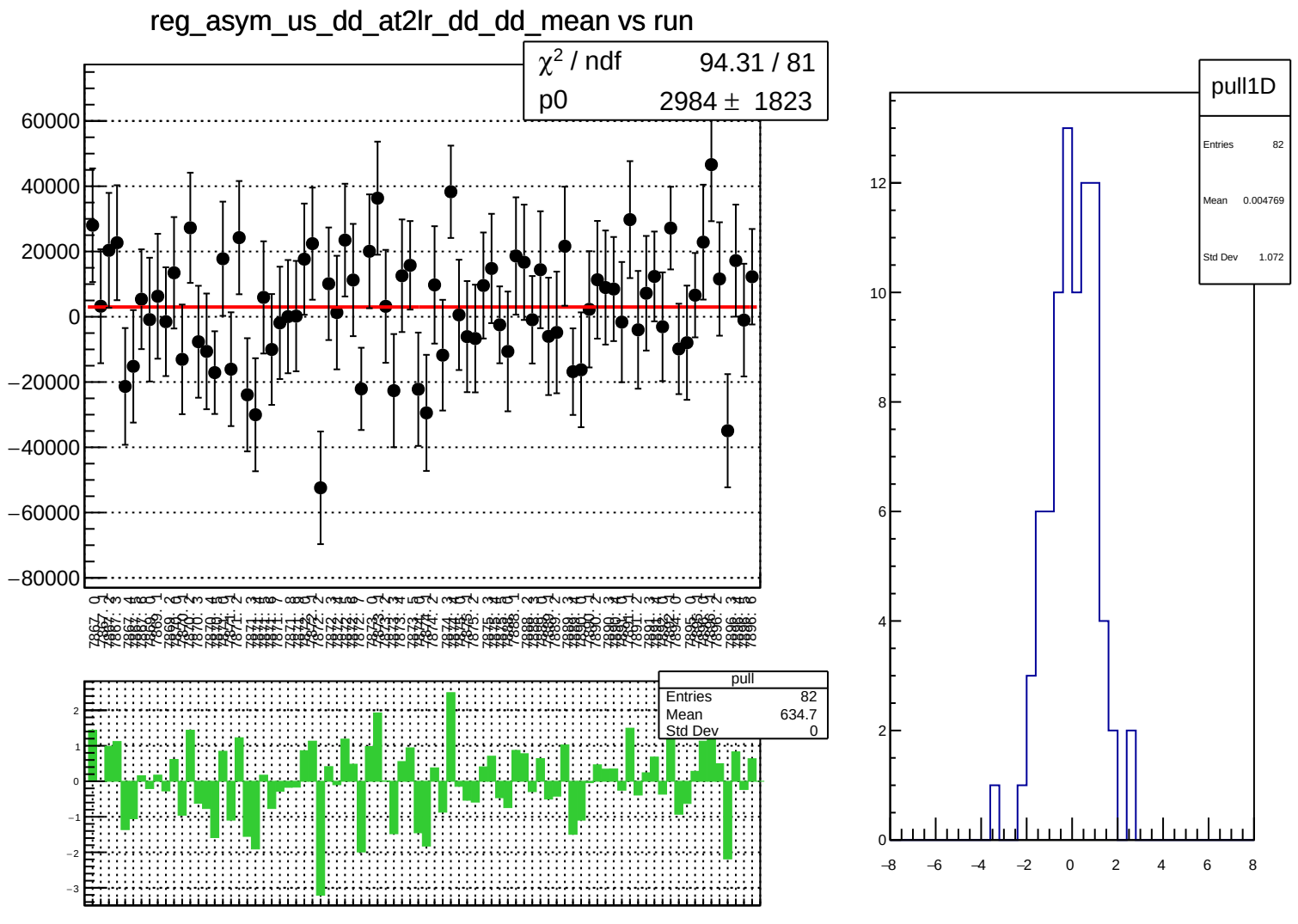

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.76 / 81
p0 −0.05062 ± 0.1763
pull
Entries 82
Mean −189.2
Std Dev 0
pull1D
Entries 82
Mean 0.02233
Std Dev 0.9417

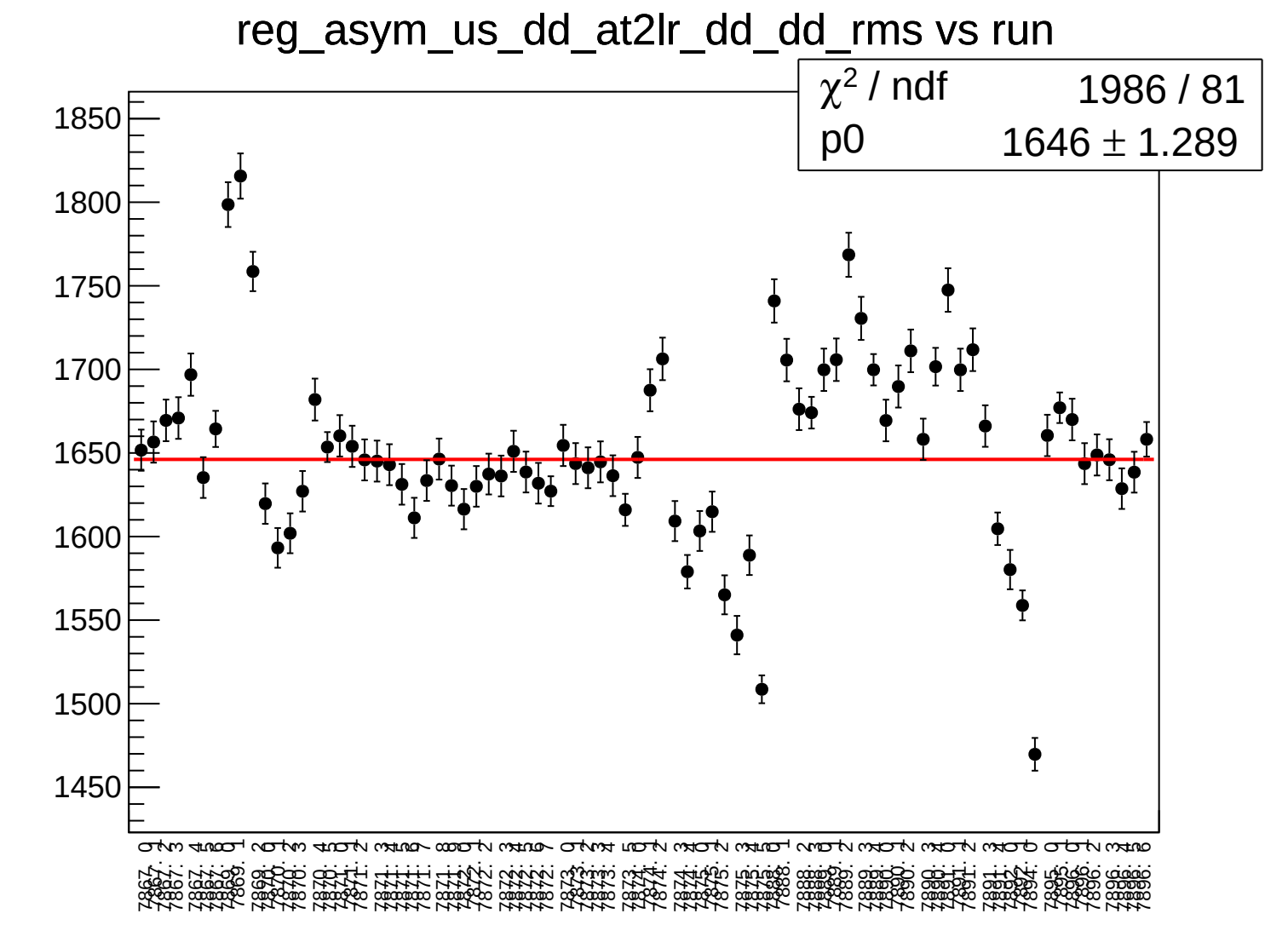

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.794e+04 / 81
p0 155.9 ± 0.1247
260
240
220
200
180
160
140
120
100
80

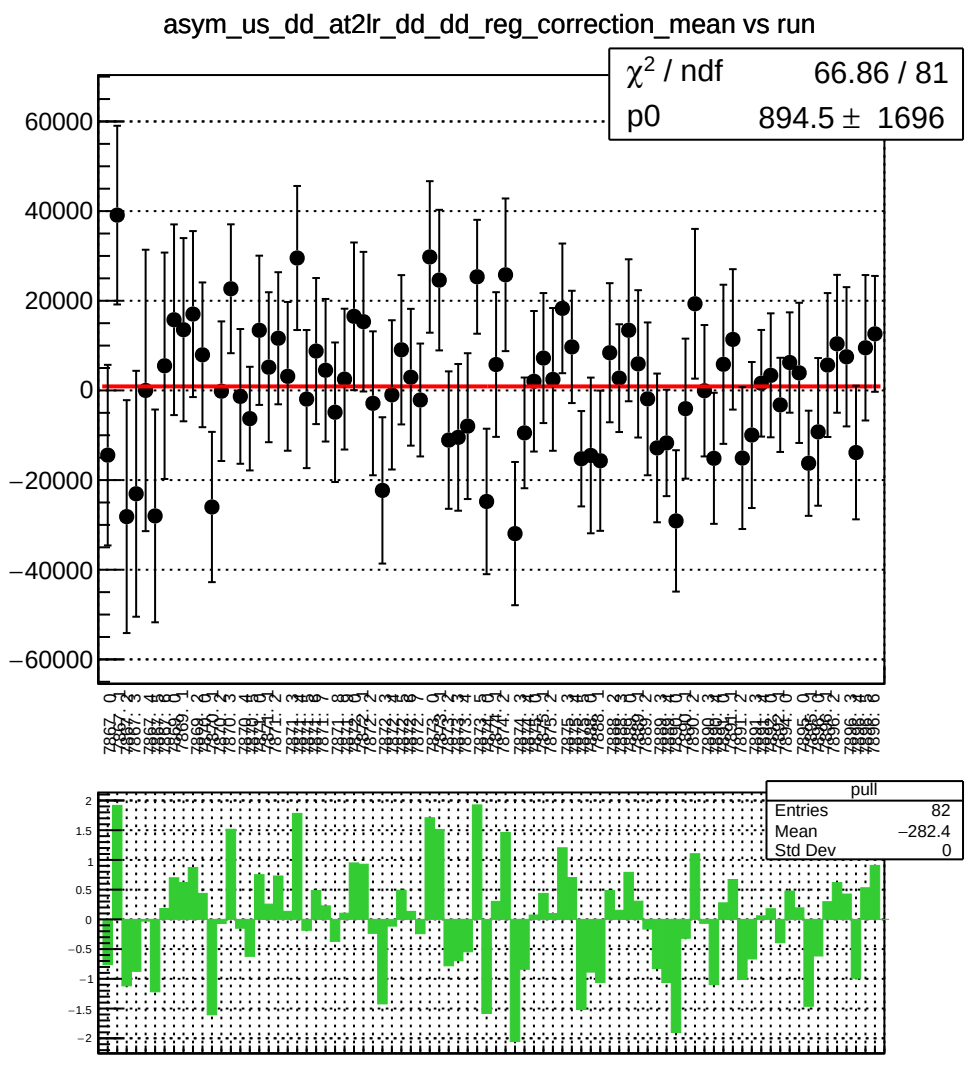

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.95 / 81
p0 −2.49e−13 ± 5.305e−13
pull
Entries 82
Mean 22.99
Std Dev 0

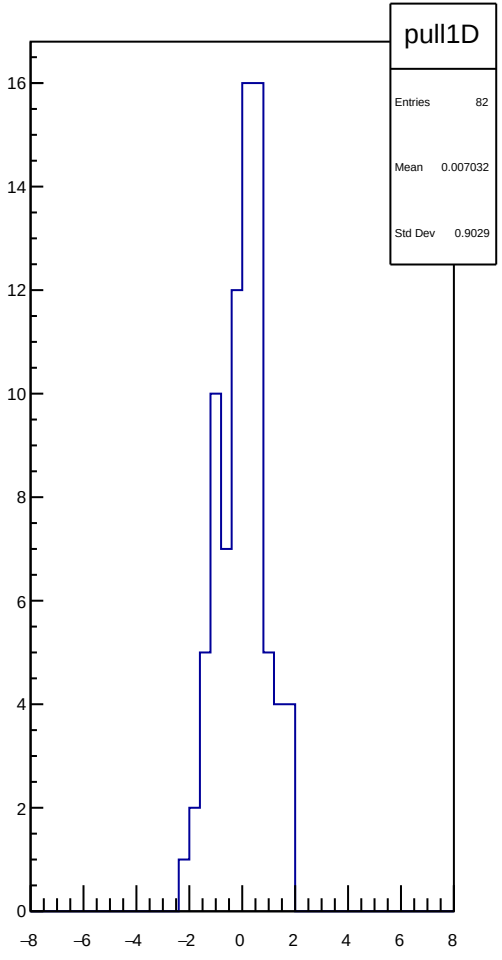

pull1D
Entries 82
Mean 0.1224
Std Dev 0.839

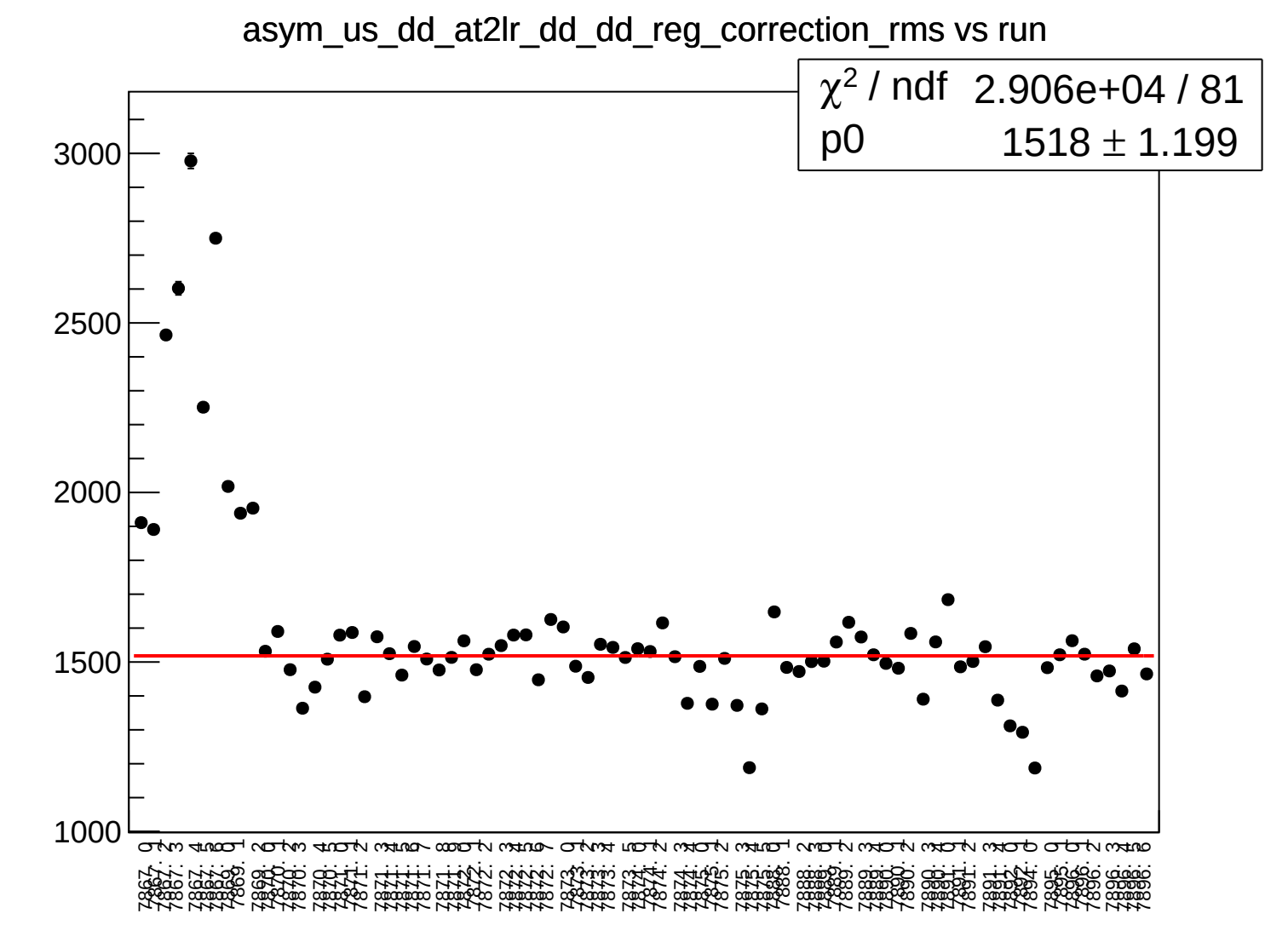

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.249e+05 / 81
p0 3.37e−10 ± 3.751e−13
5
4
3
2
1

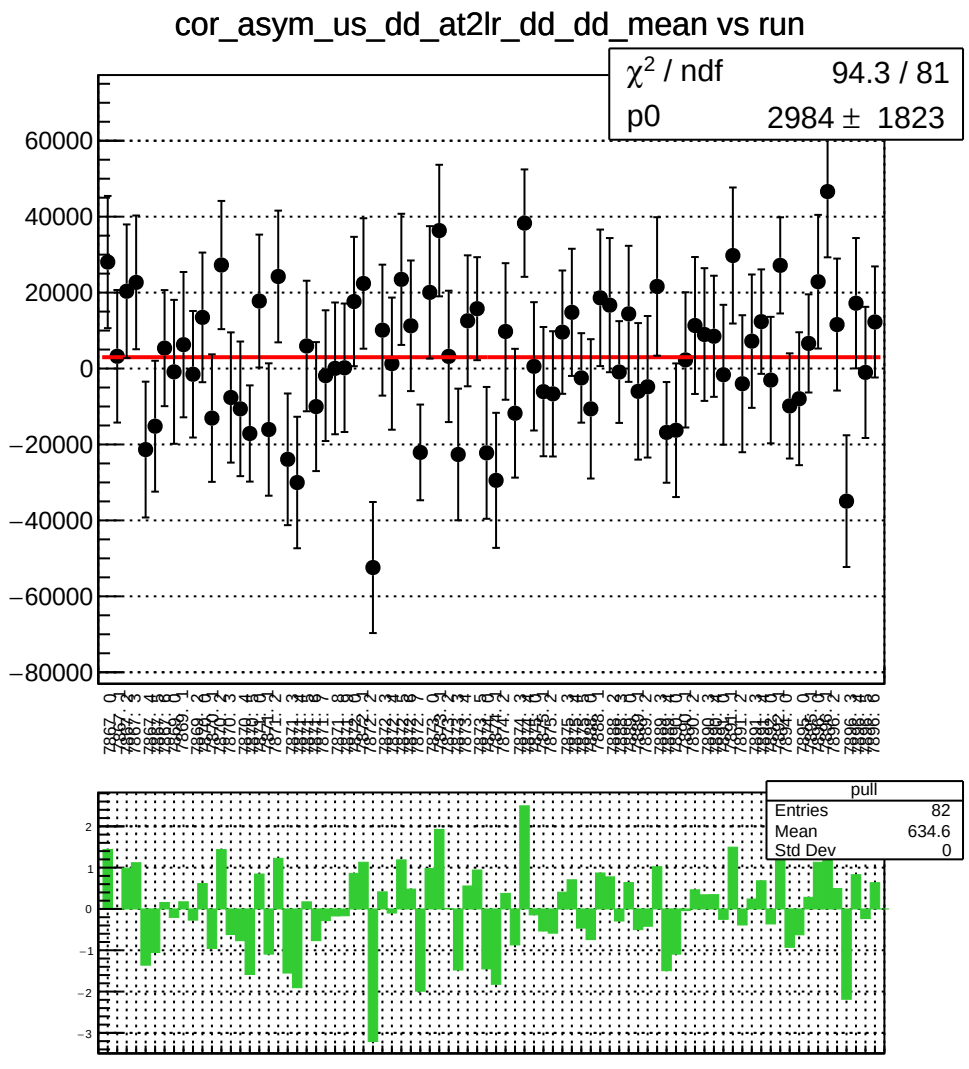

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.31 / 81
p0 2984 ± 1823
pull
Entries 82
Mean 634.7
Std Dev 0
pull1D
Entries 82
Mean 0.004769
Std Dev 1.072

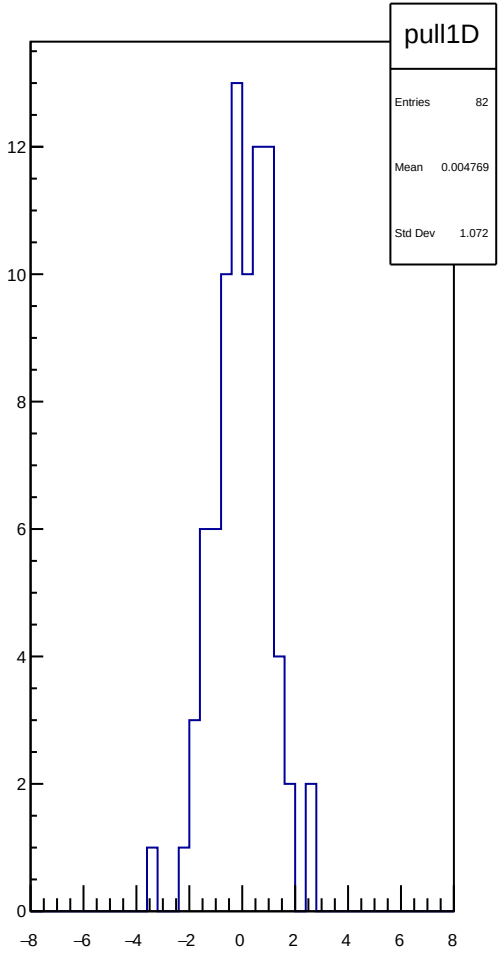

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1986 / 81
p0 1646 ± 1.289
1850
1800
1750
1700
1650
1600
1550
1500
1450

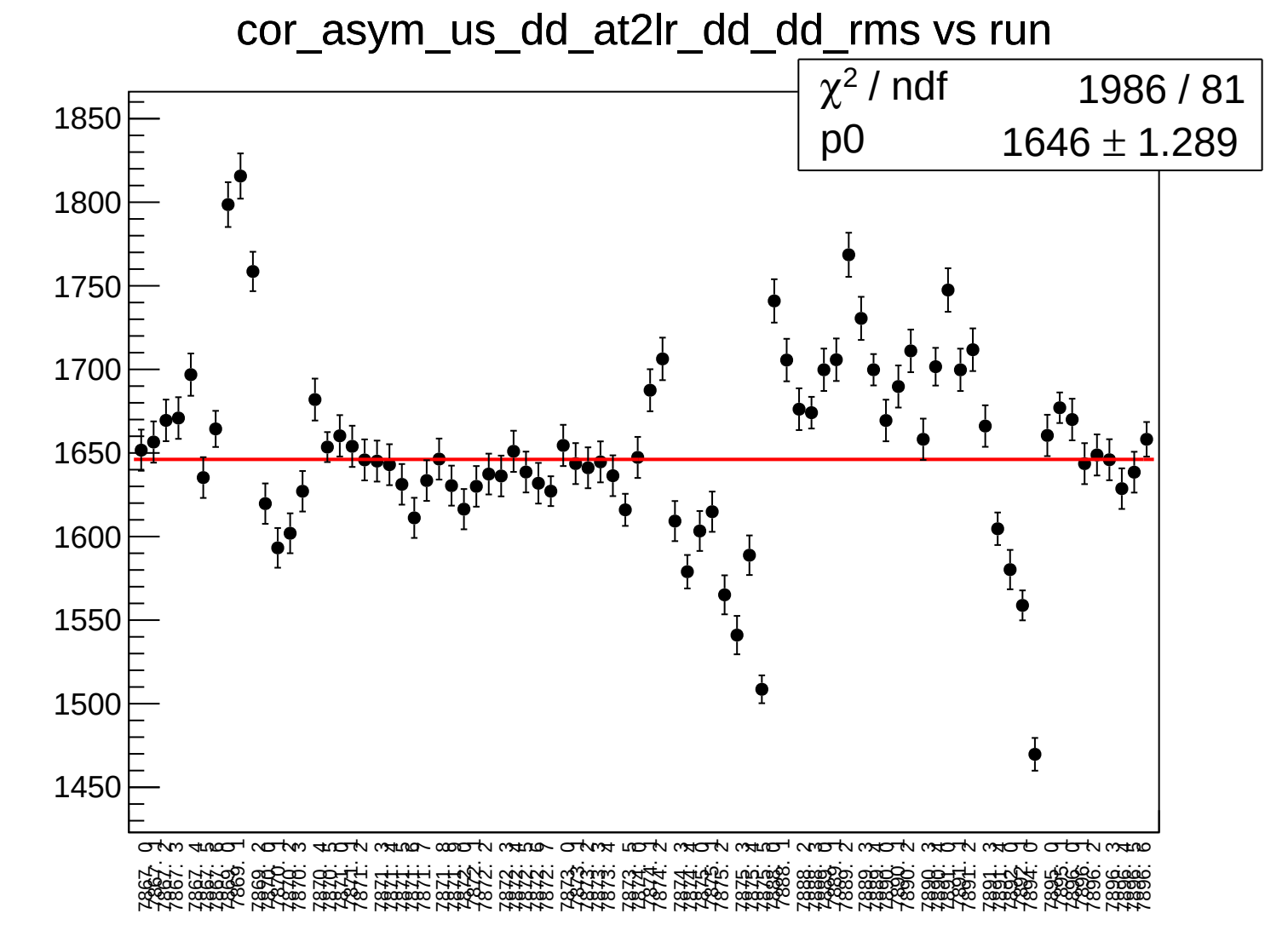

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 66.86 / 81
p0 894.5 ± 1696
pull
Entries 82
Mean −282.4
Std Dev 0

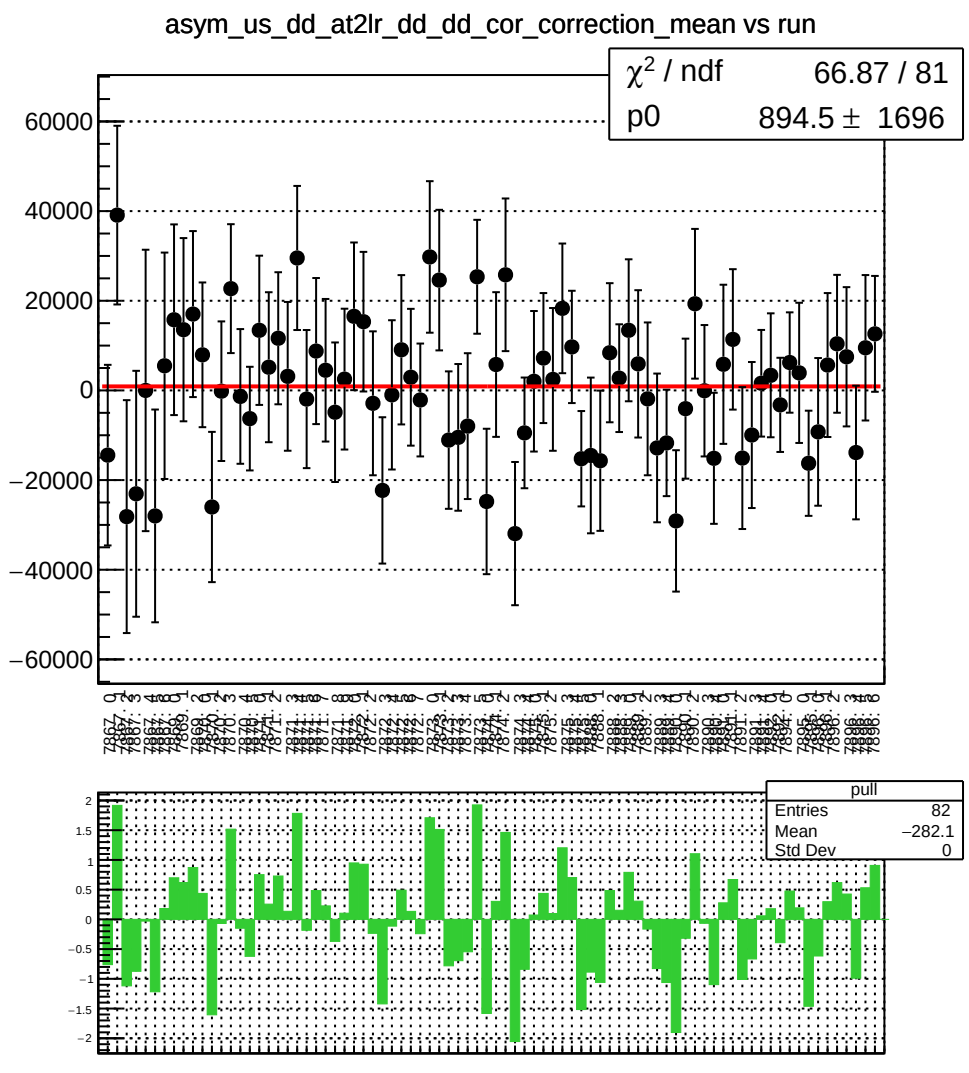

pull1D
Entries 82
Mean 0.007032
Std Dev 0.9029

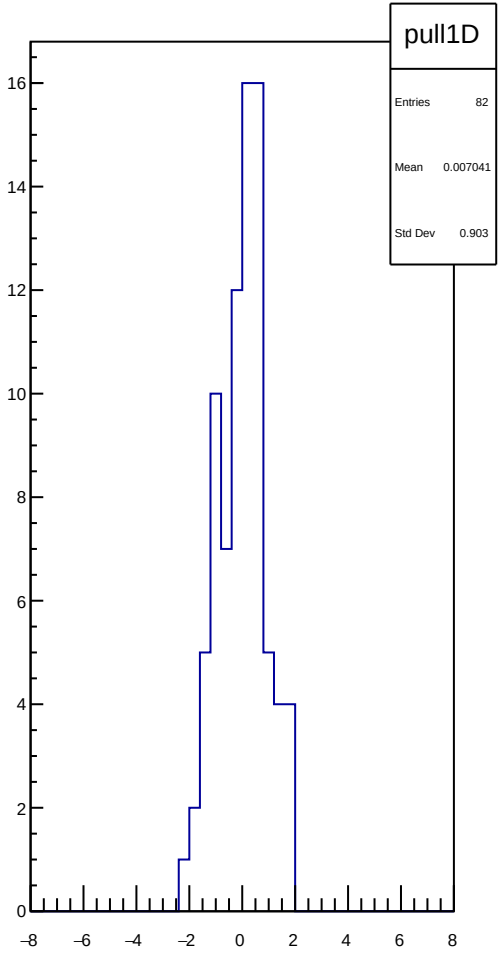

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.906e+04 / 81
p0 1518 ± 1.199
3000
2500
2000
1500
1000

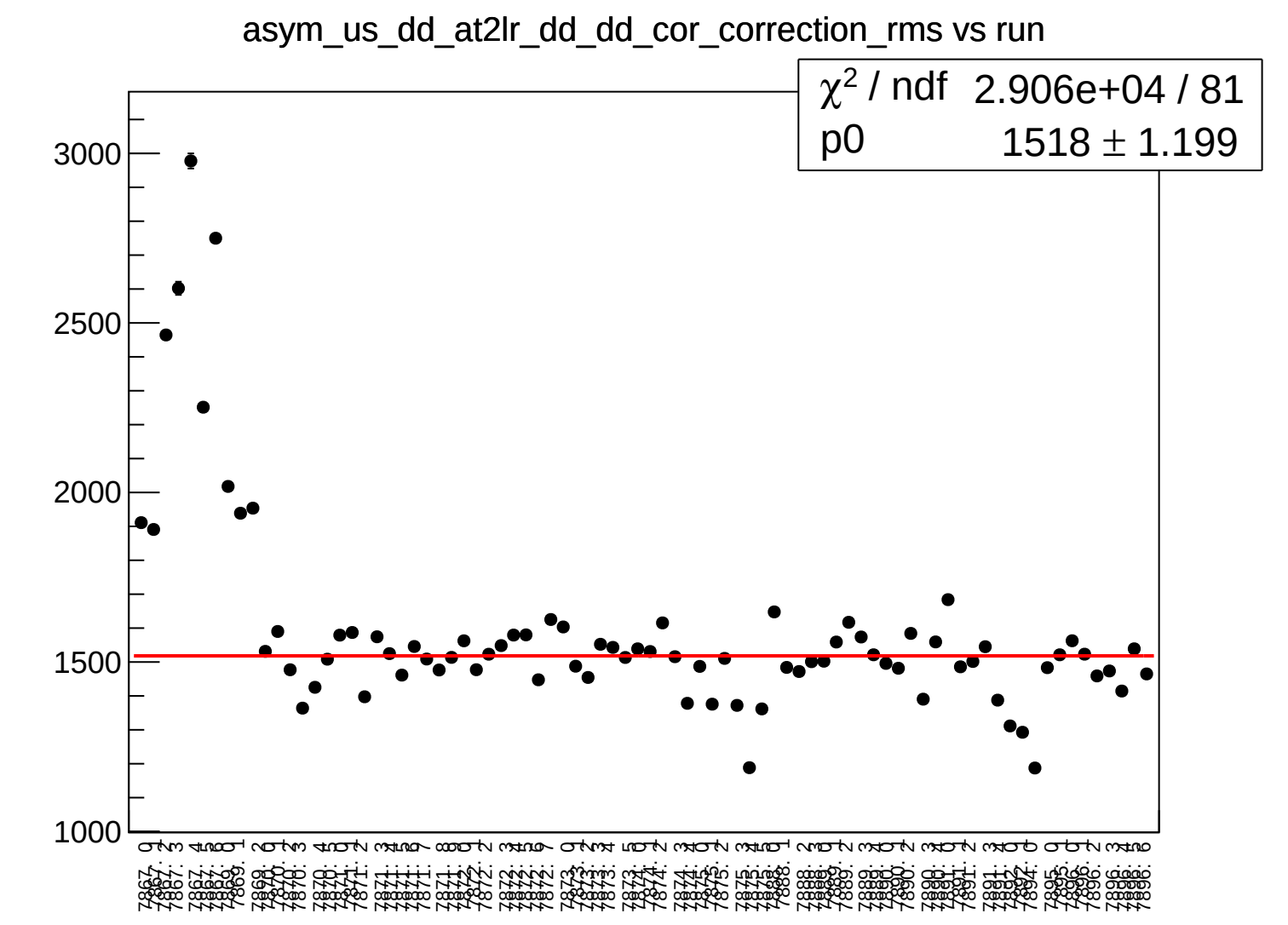

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.3 / 81
p0 2984 ± 1823
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 634.6
Std Dev 0
2
1
0
−1
−2
−3

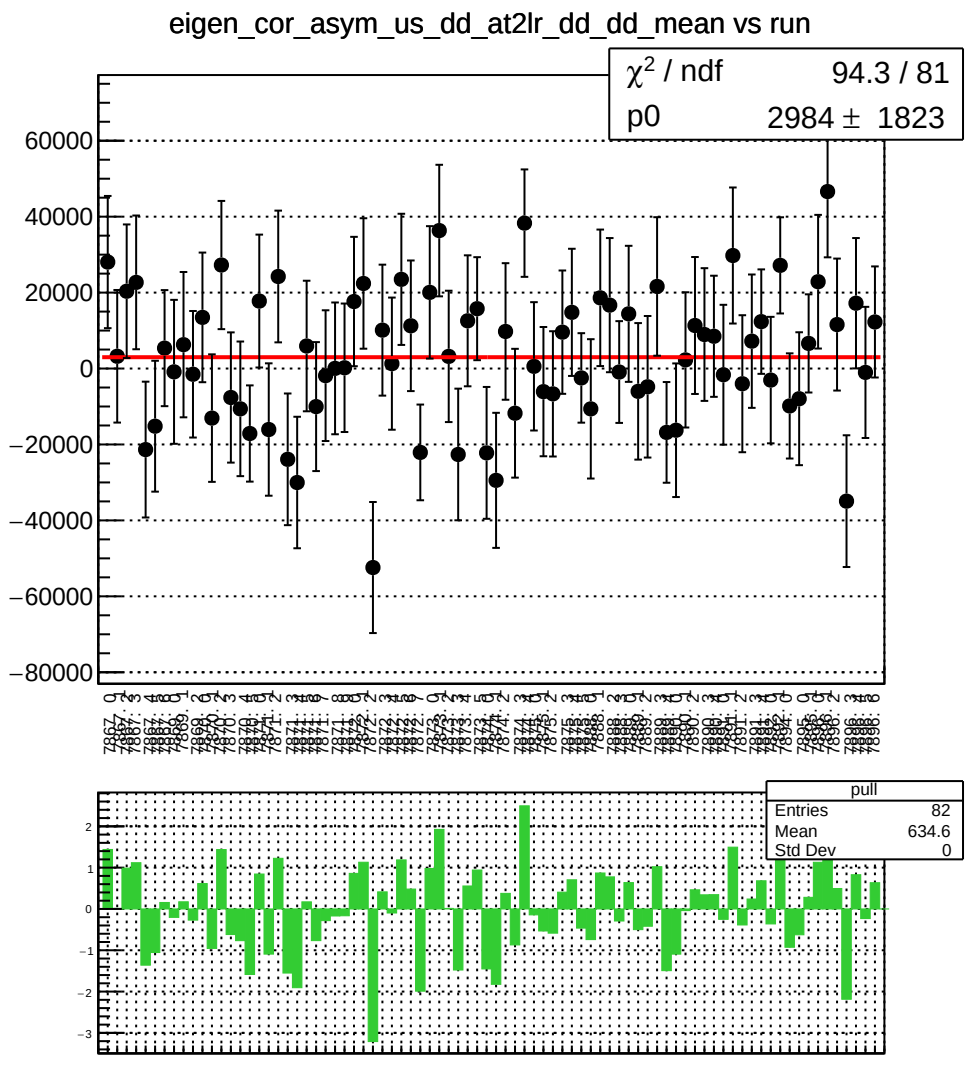

pull1D
Entries 82
Mean 0.004769
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

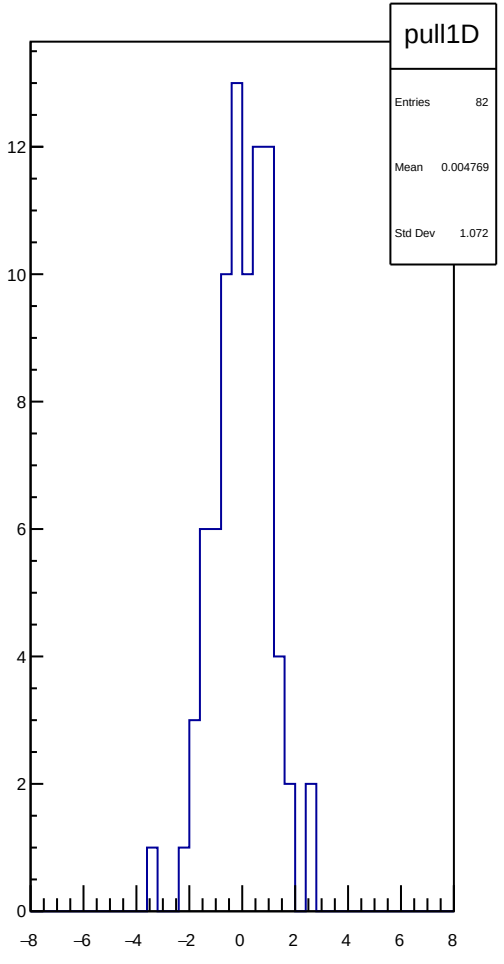

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1986 / 81
p0 1646 ± 1.289
1850
1800
1750
1700
1650
1600
1550
1500
1450

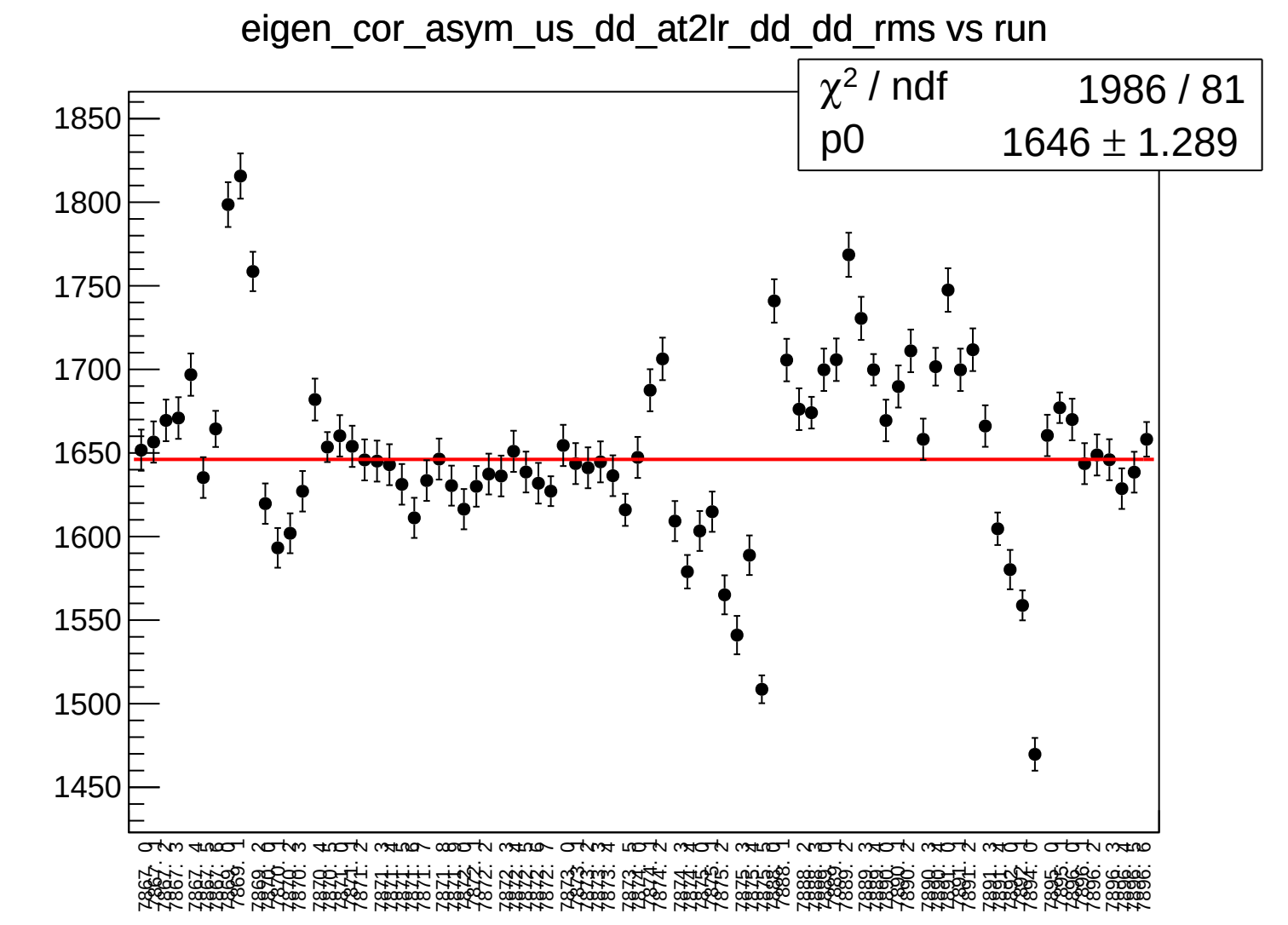

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 66.87 / 81
p0 894.5 ± 1696
pull
Entries 82
Mean −282.1
Std Dev 0

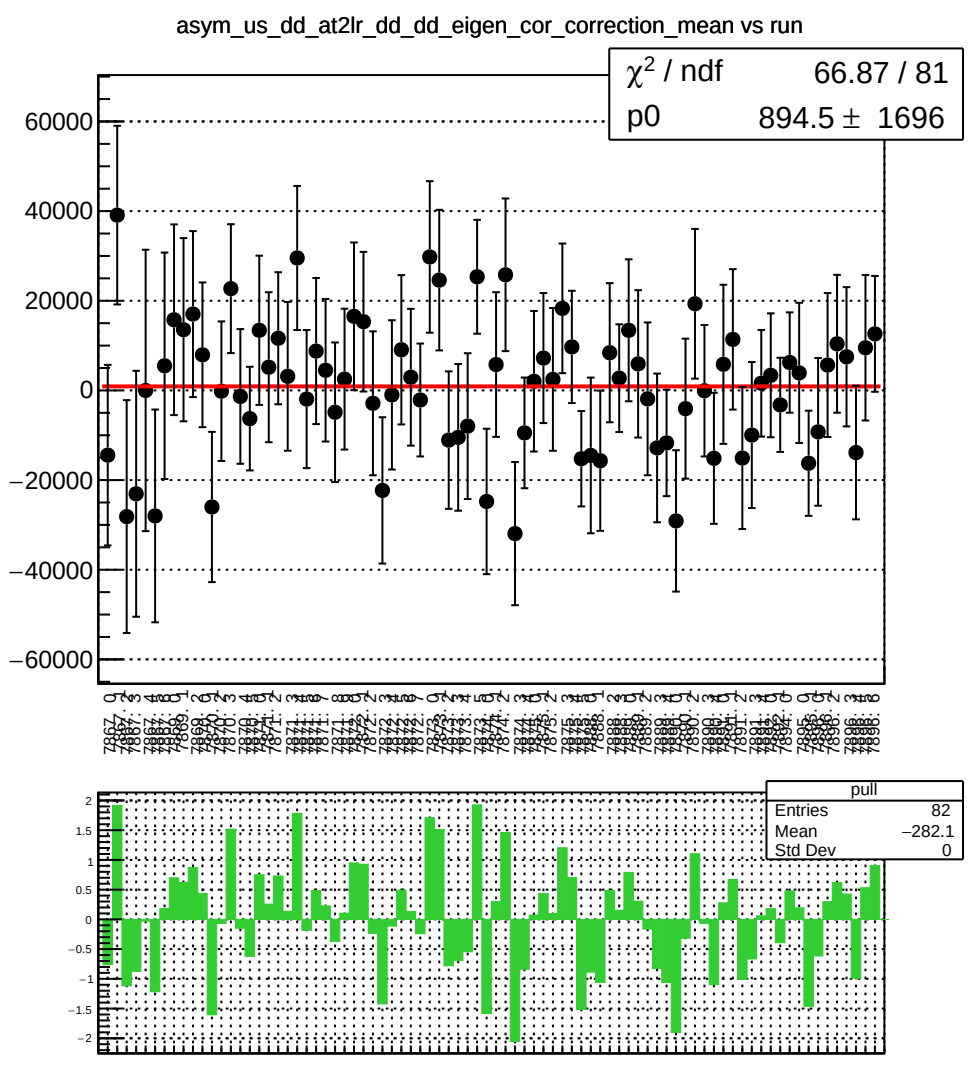

pull1D
Entries 82
Mean 0.007041
Std Dev 0.903

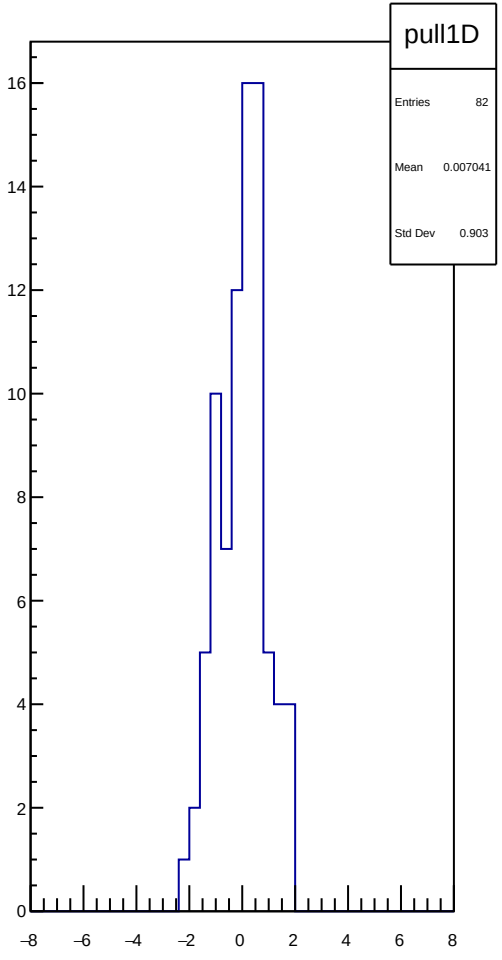

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.906e+04 / 81
p0 1518 ± 1.199
3000
2500
2000
1500
1000

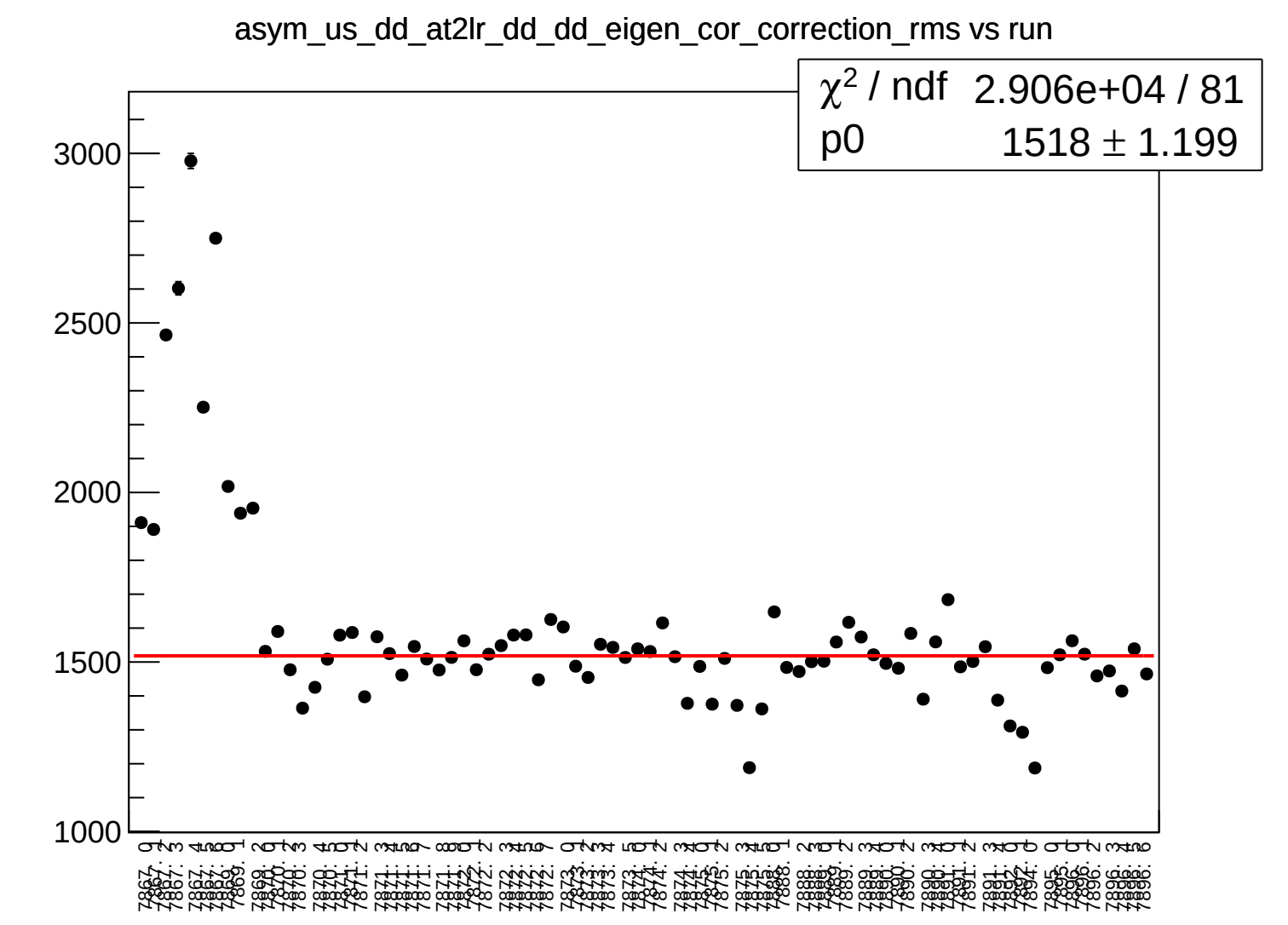

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.3 / 81
p0 2984 ± 1823
pull
Entries 82
Mean 634.6
Std Dev 0

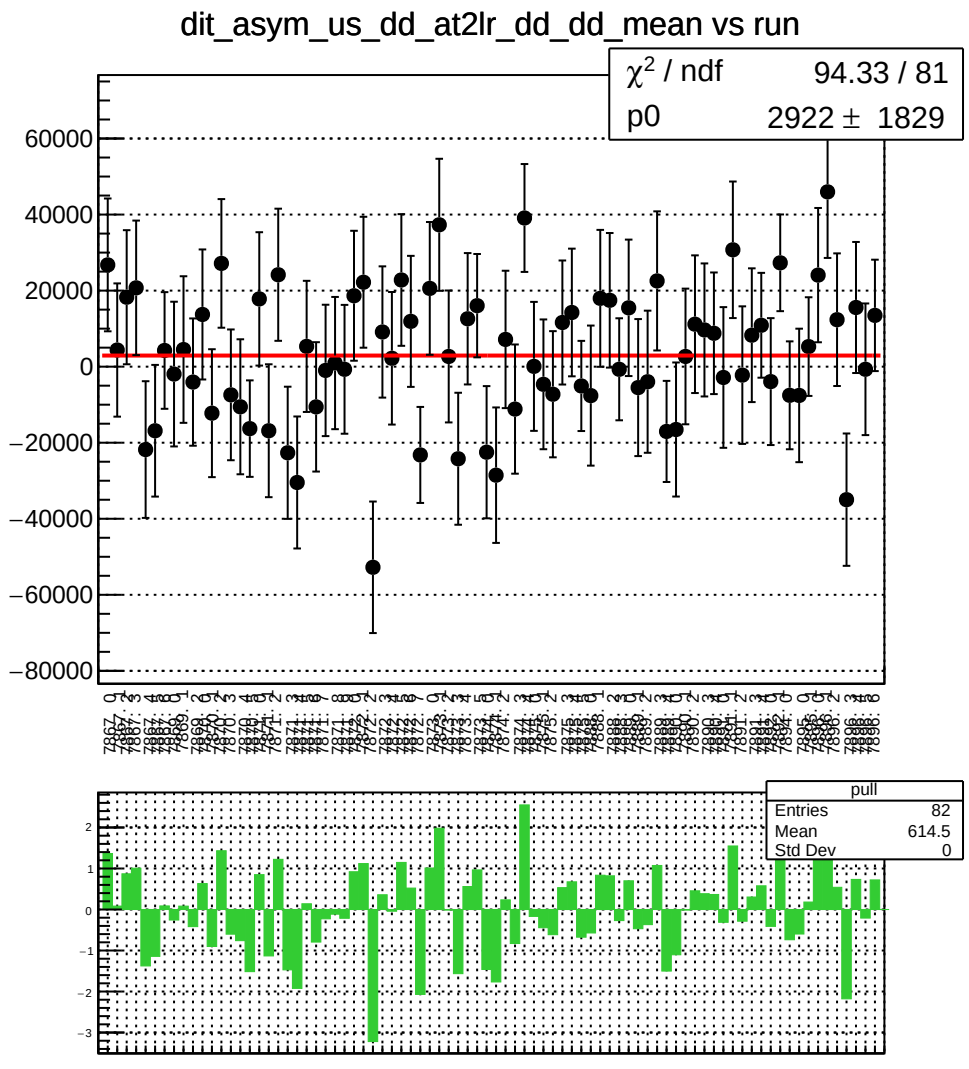

pull1D
Entries 82
Mean 0.004769
Std Dev 1.072

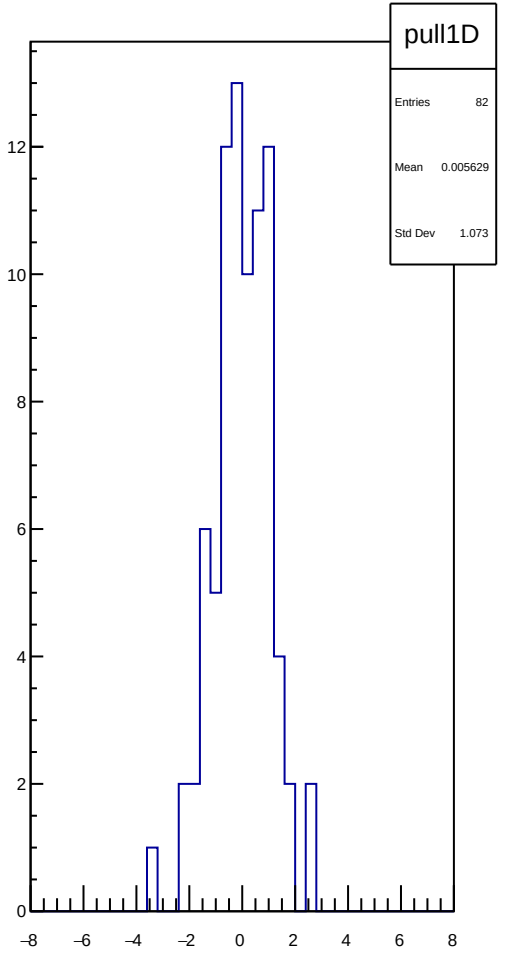

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1986 / 81
p0 1646 ± 1.289
1850
1800
1750
1700
1650
1600
1550
1500
1450

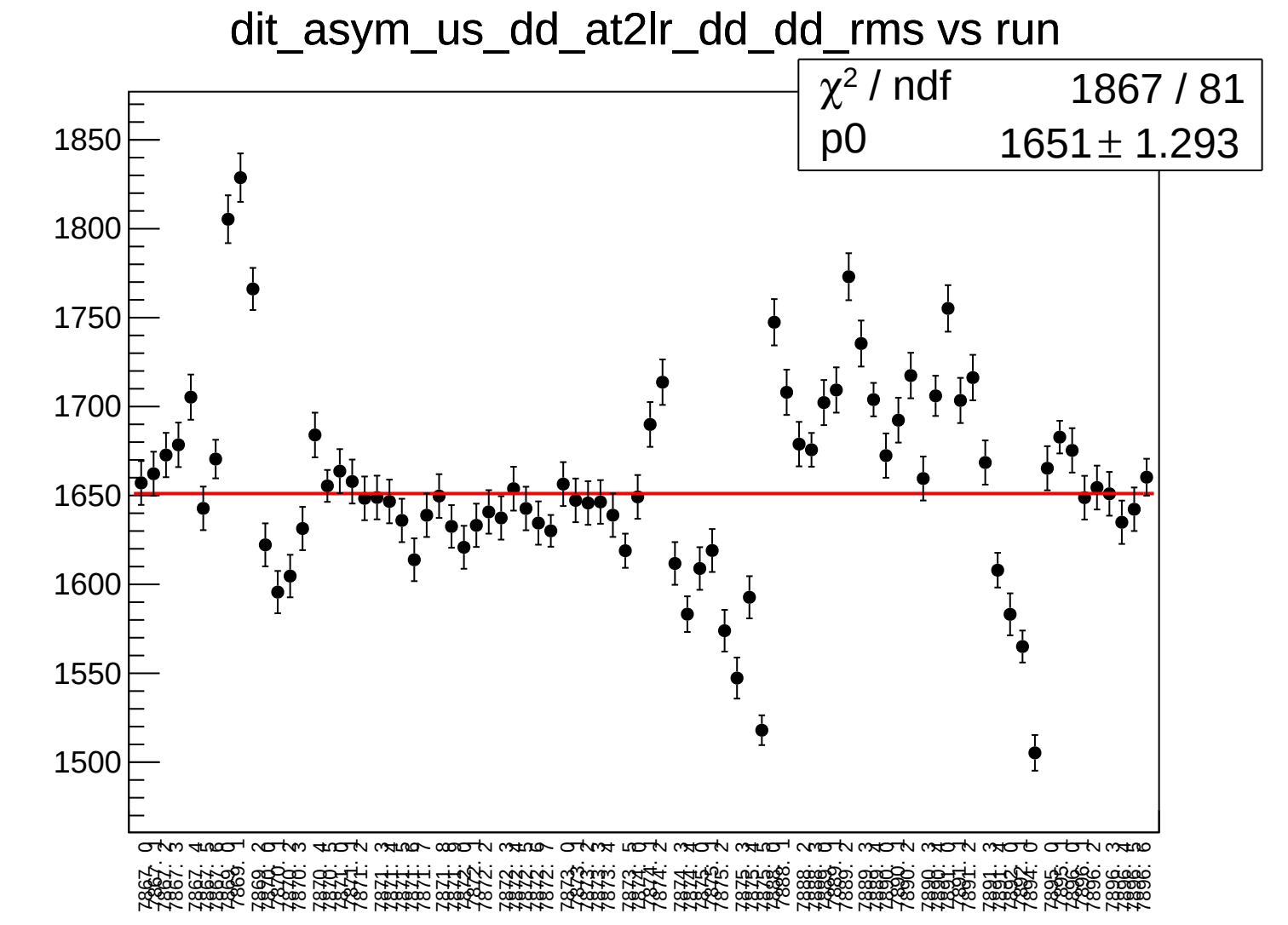

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.87 / 81
p0 894.5 ± 1696
pull
Entries 82
Mean −282.1
Std Dev 0

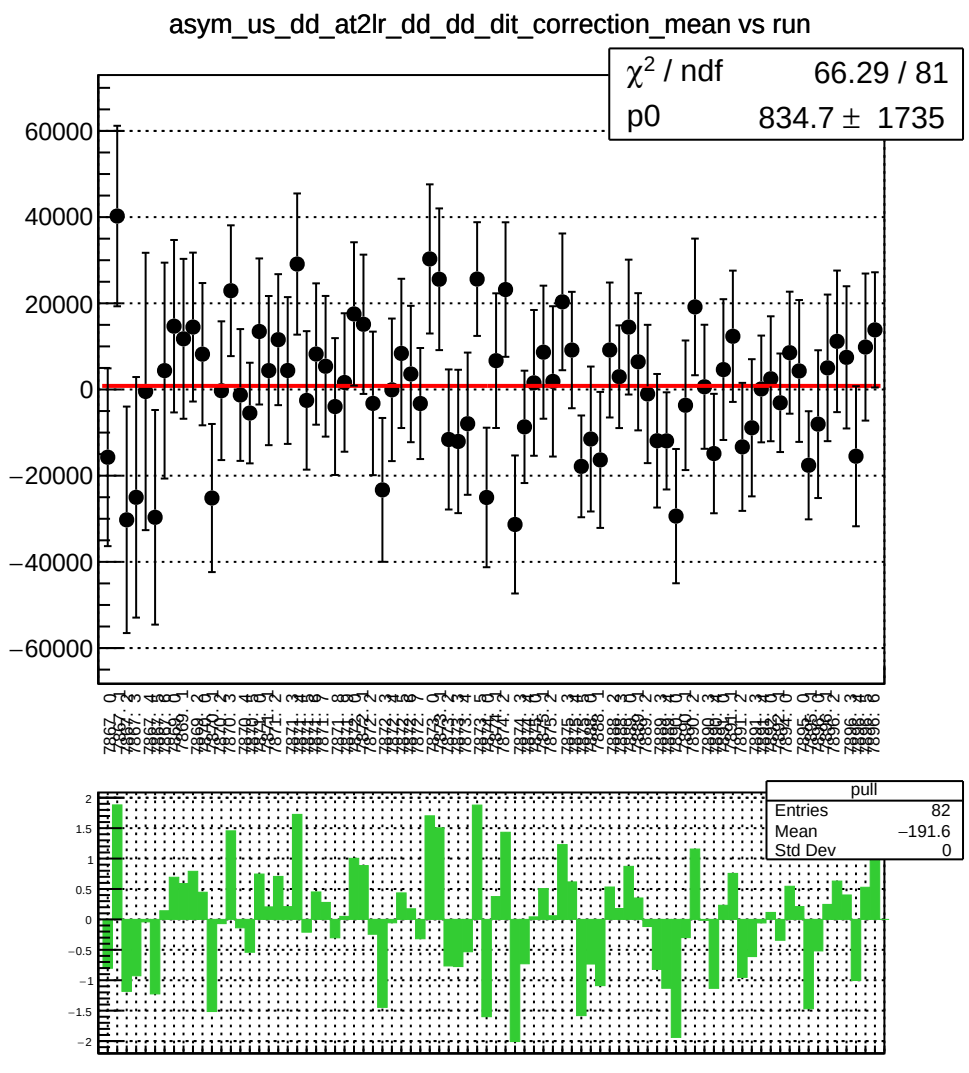

pull1D
Entries 82
Mean 0.007041
Std Dev 0.903

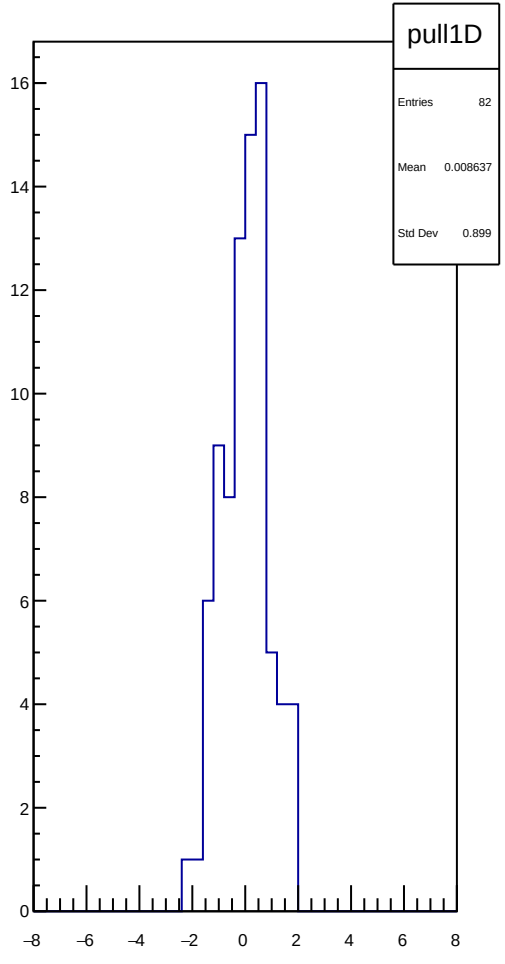

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.906e+04 / 81
p0 1518 ± 1.199
3000
2500
2000
1500
1000

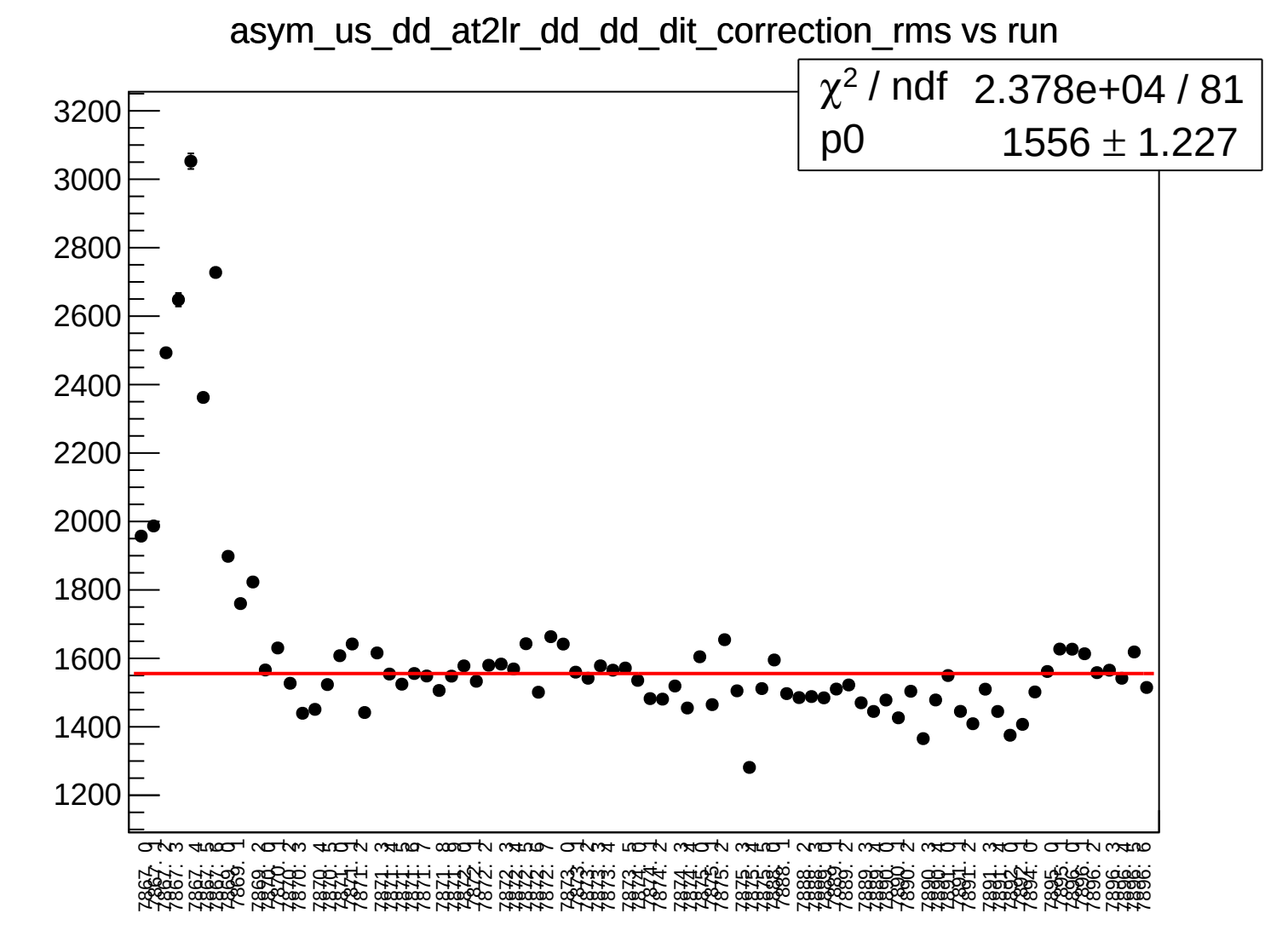

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.33 / 81
p0 2922 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 614.5
Std Dev 0
2
1
0
−1
−2
−3

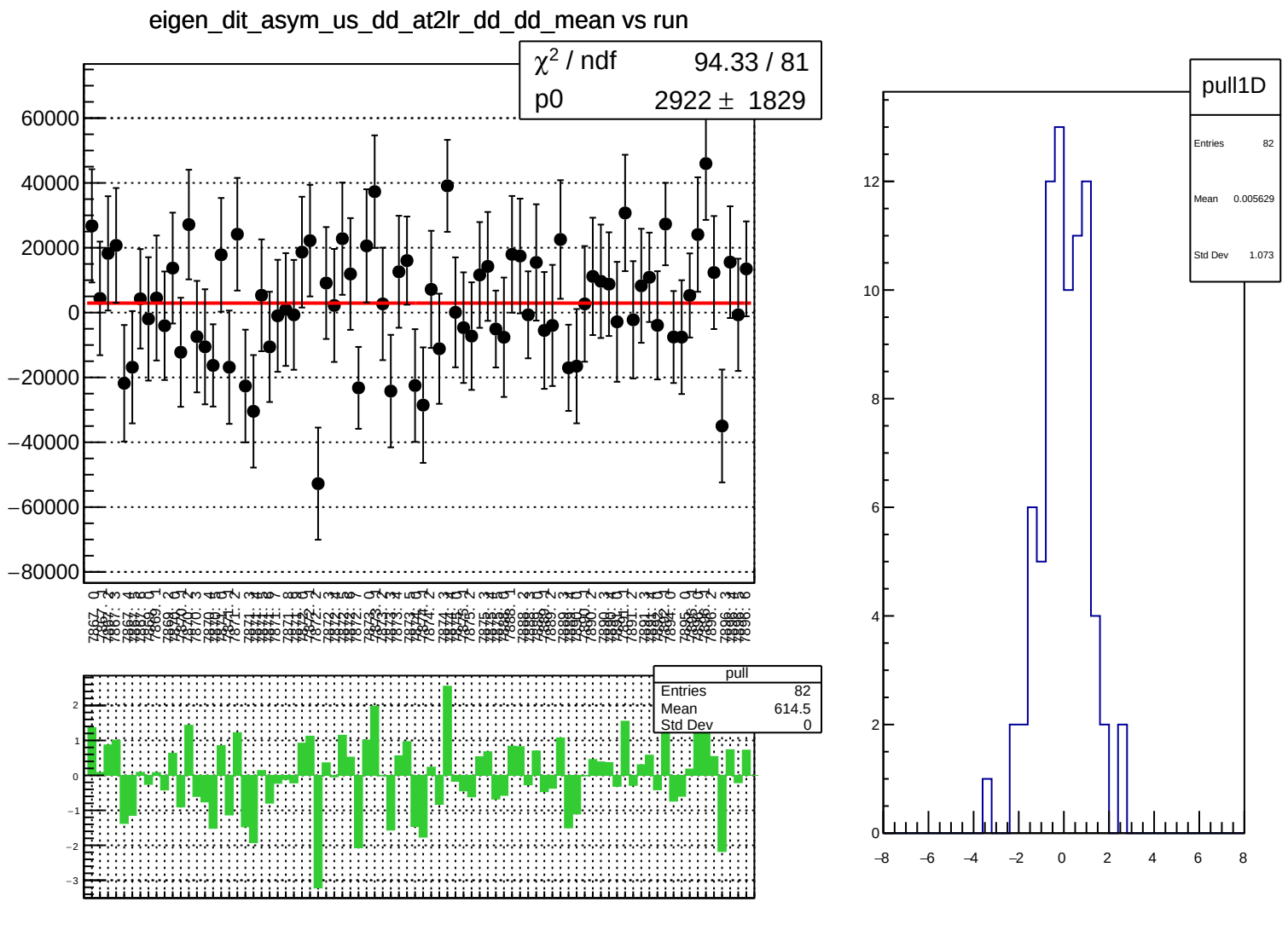

pull1D
Entries 82
Mean 0.005629
Std Dev 1.073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

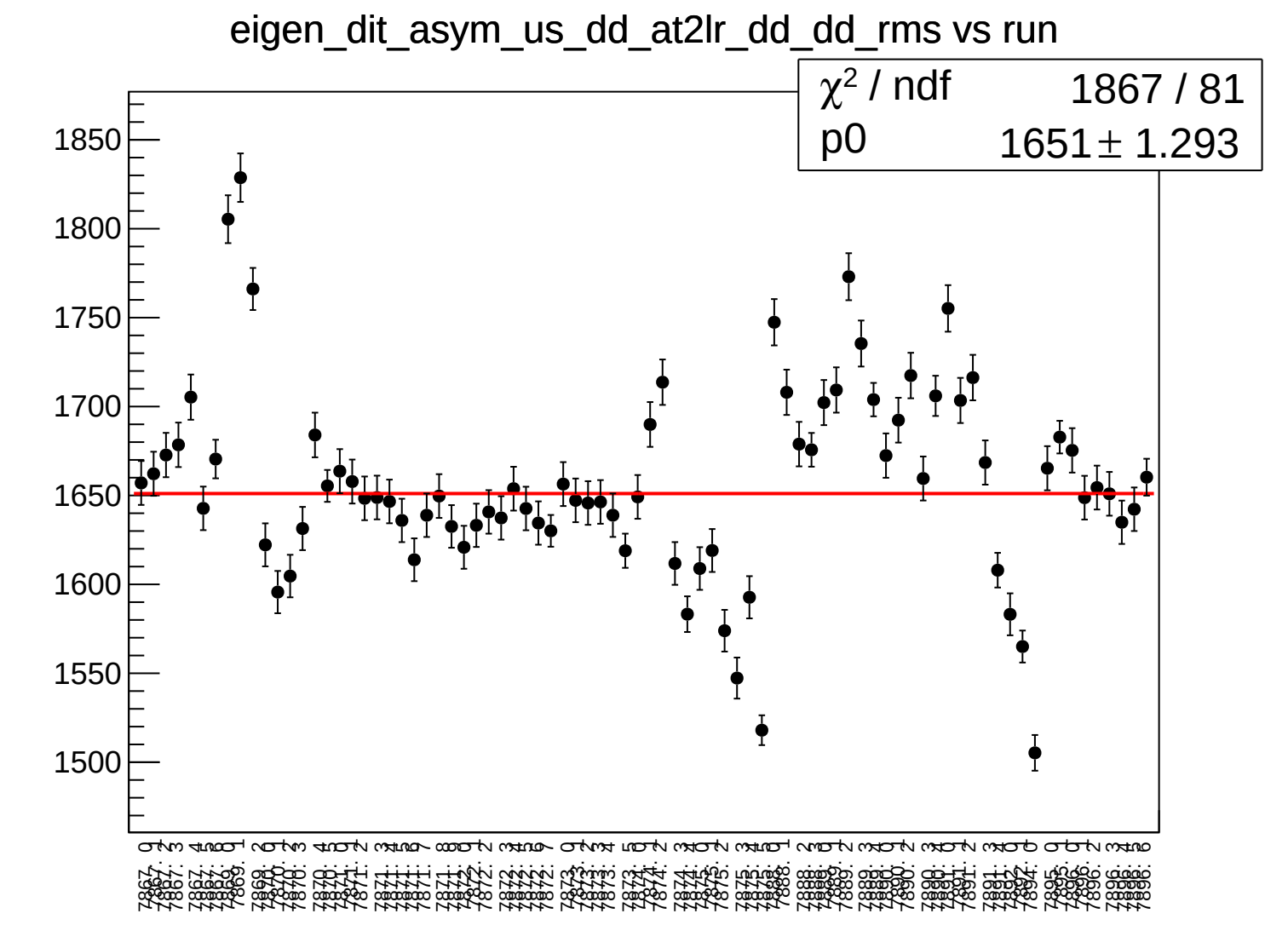

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1867 / 81
p0 1651 ± 1.293
1850
1800
1750
1700
1650
1600
1550
1500

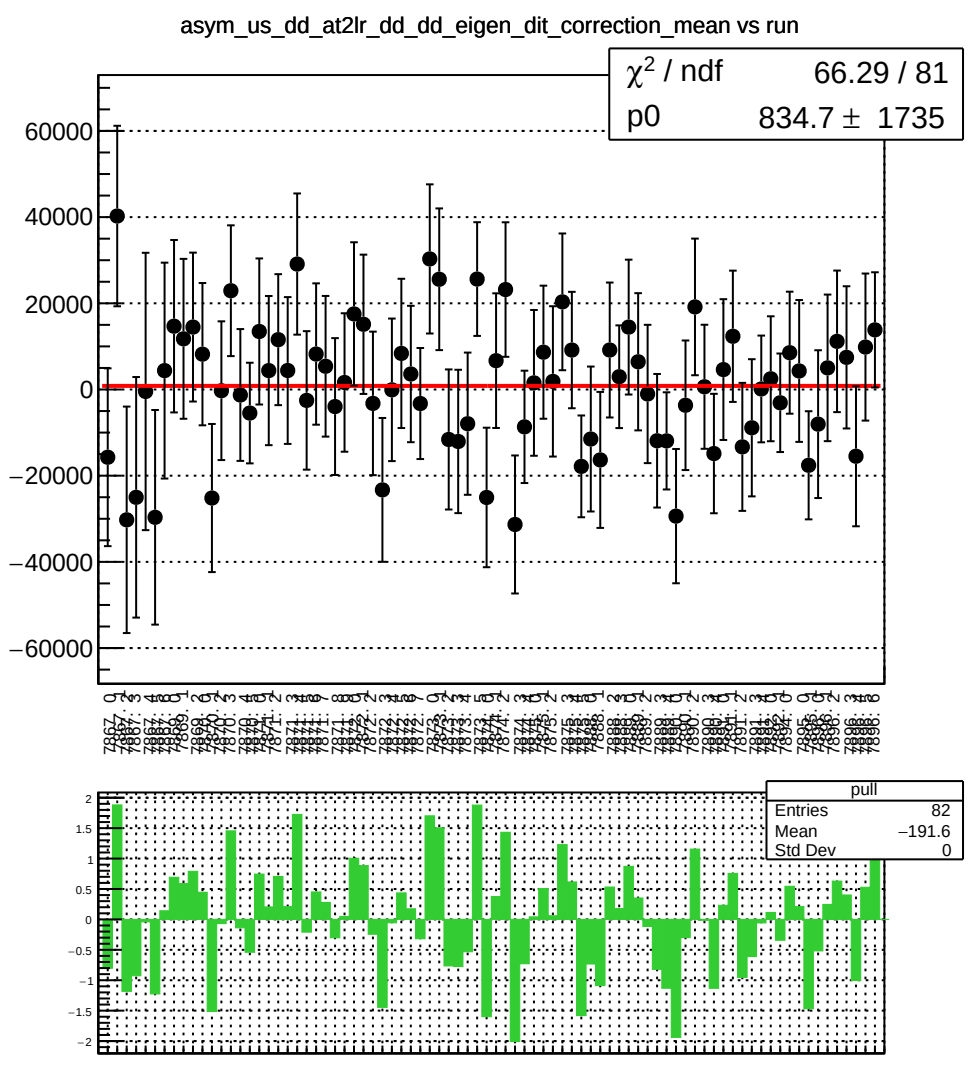

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 66.29 / 81
p0 834.7 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −191.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

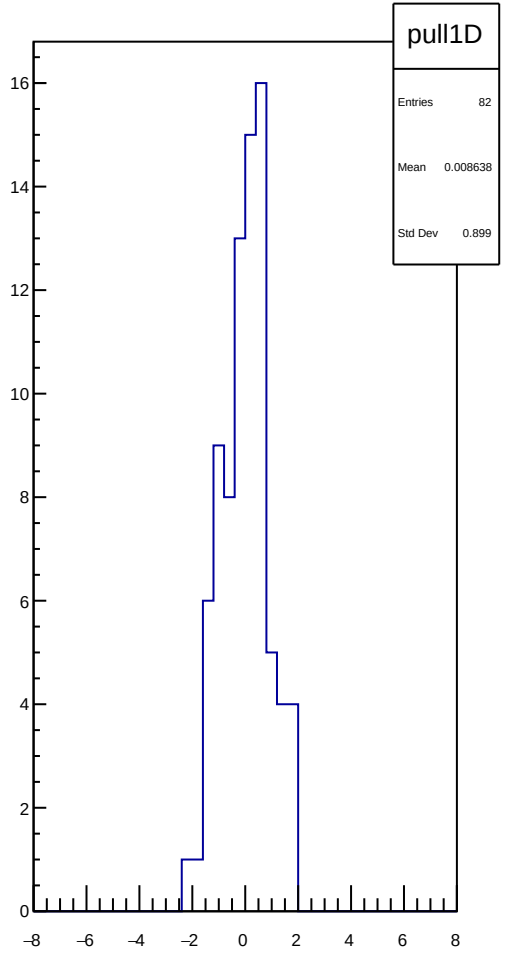

pull1D
Entries 82
Mean 0.008637
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

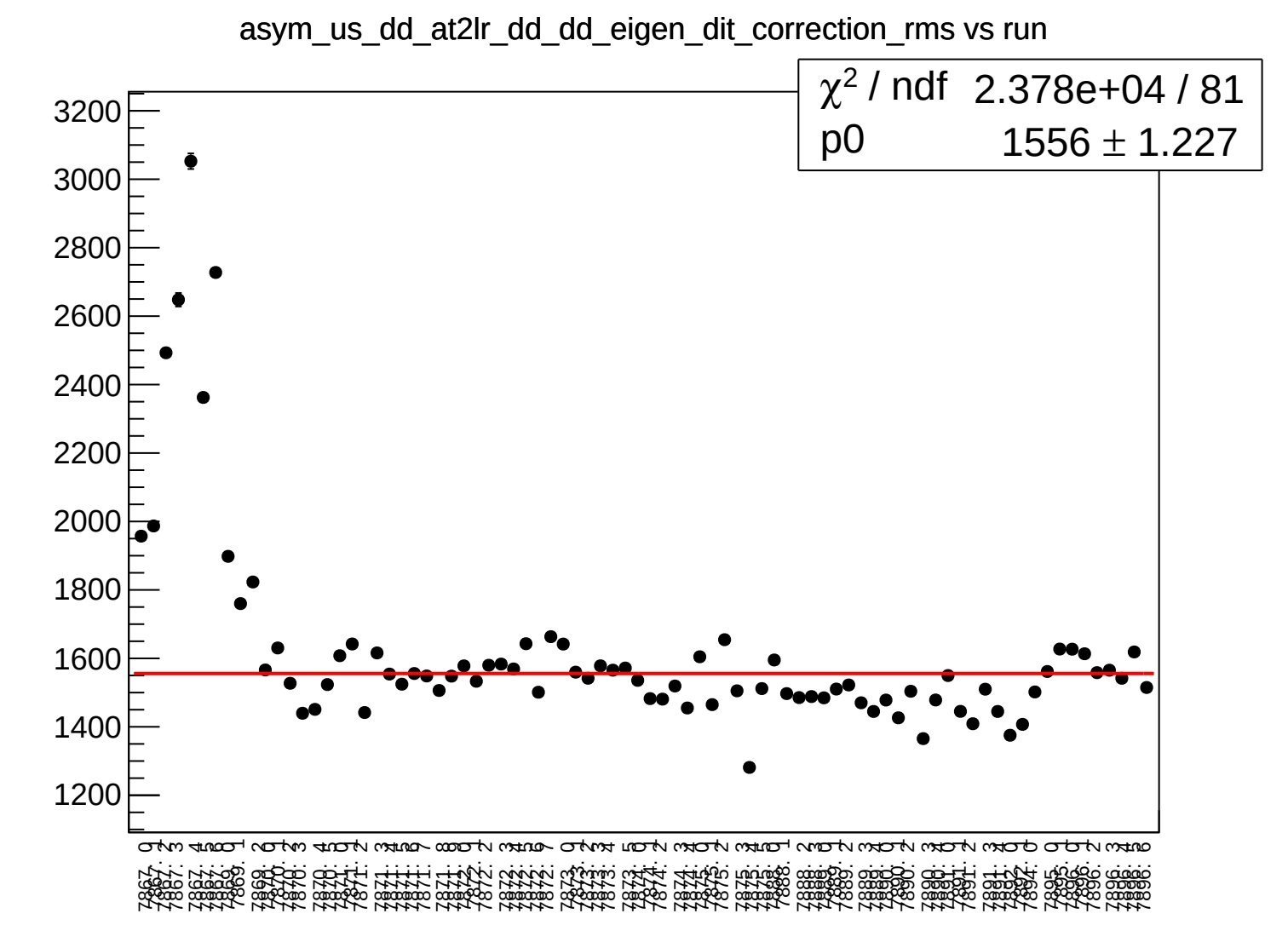

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.378e+04 / 81
p0 1556 ± 1.227
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

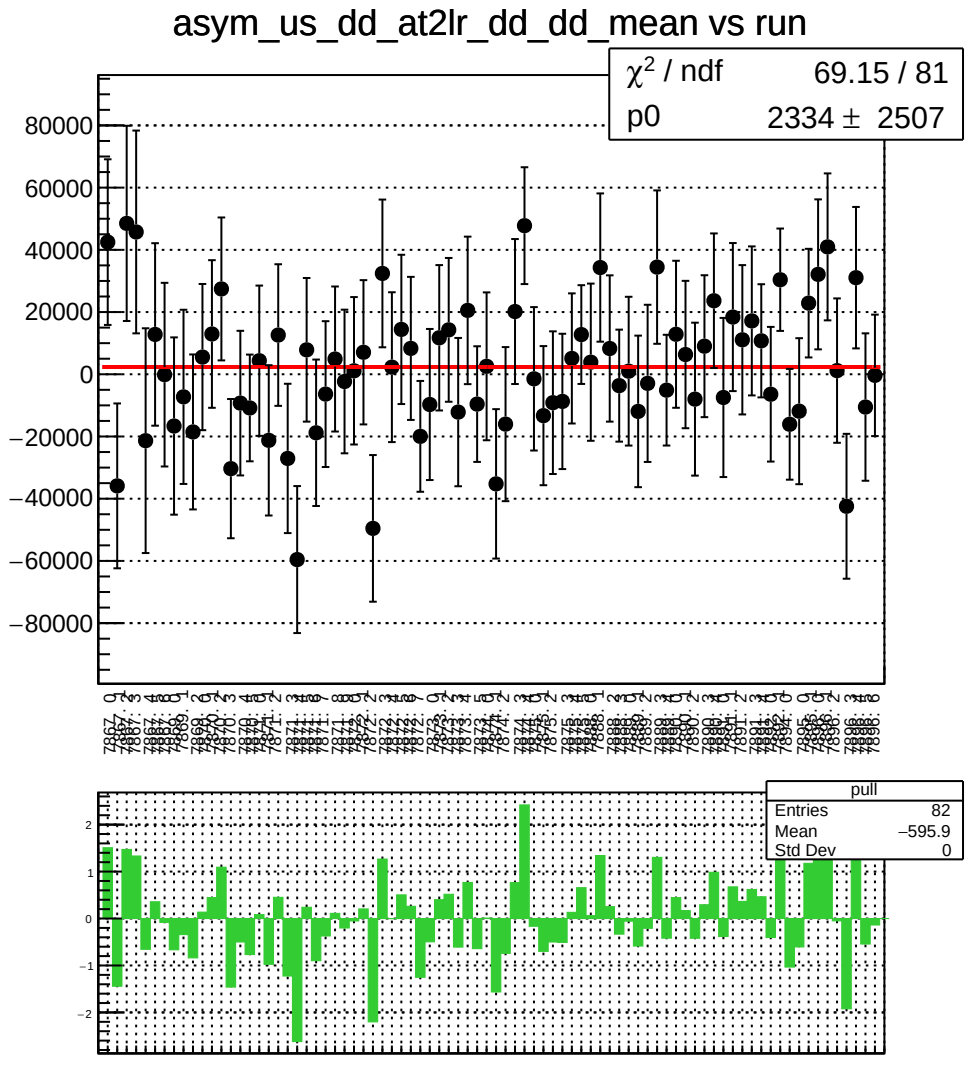

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.33 / 81
p0 2922 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 614.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005629
Std Dev 1.073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

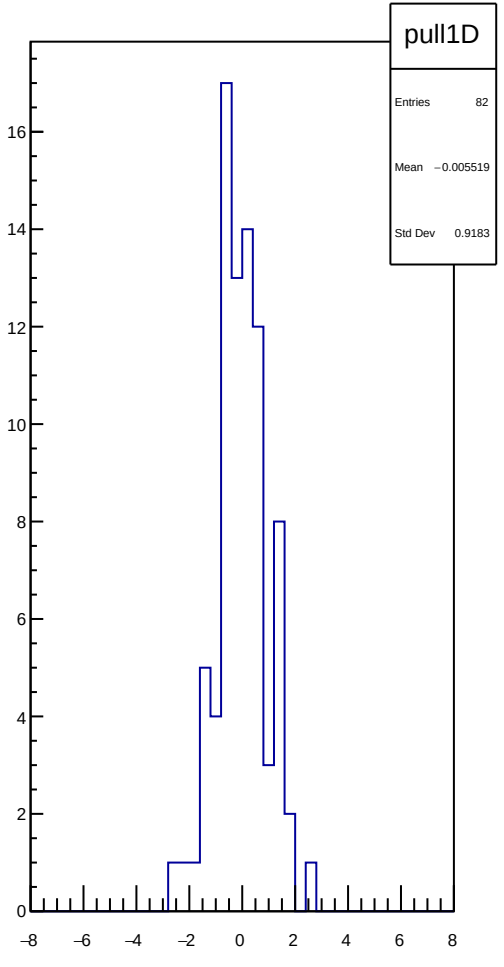

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1867 / 81
p0 1651 ± 1.293
1850
1800
1750
1700
1650
1600
1550
1500

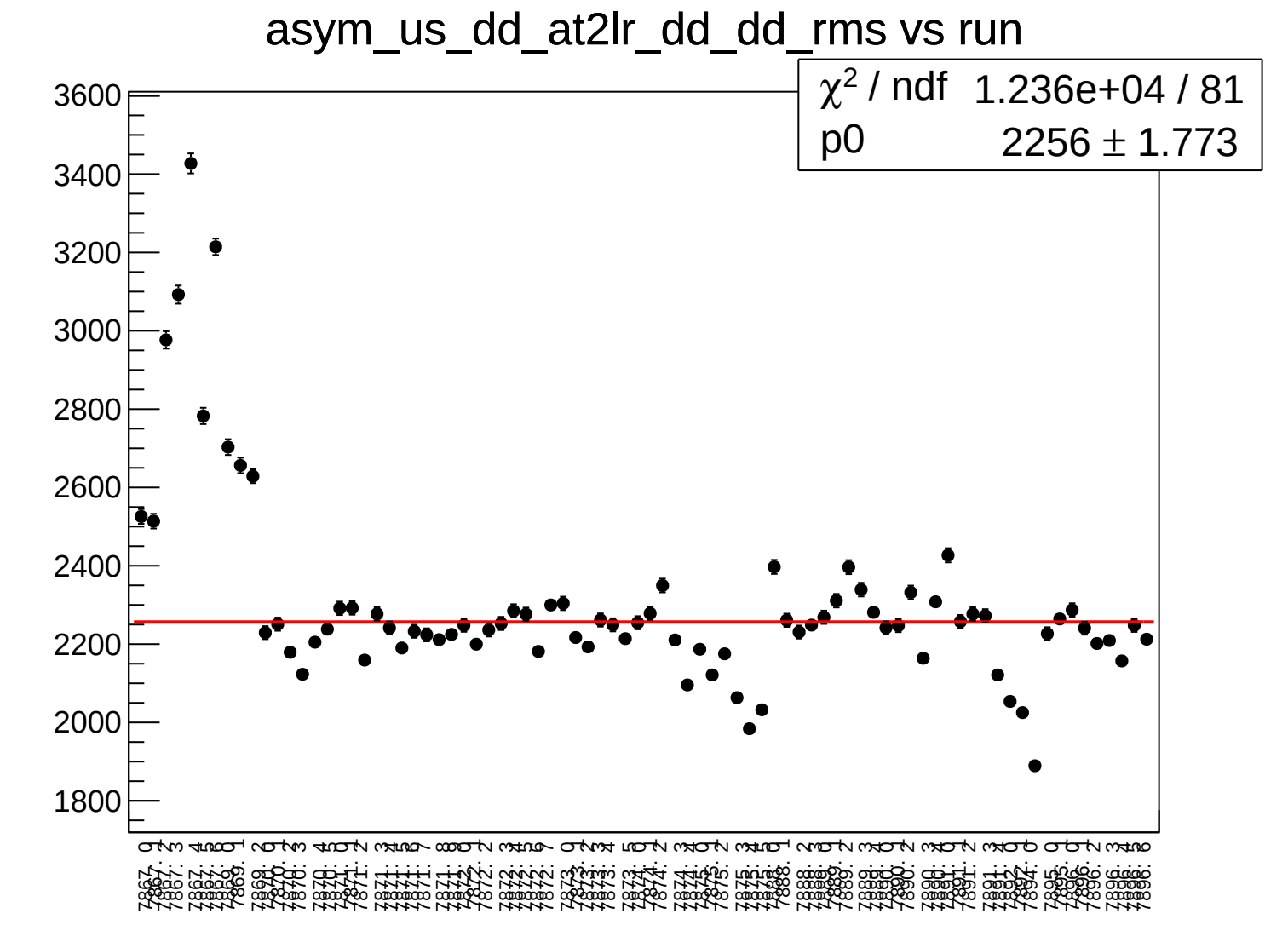

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.29 / 81
p0 834.7 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −191.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

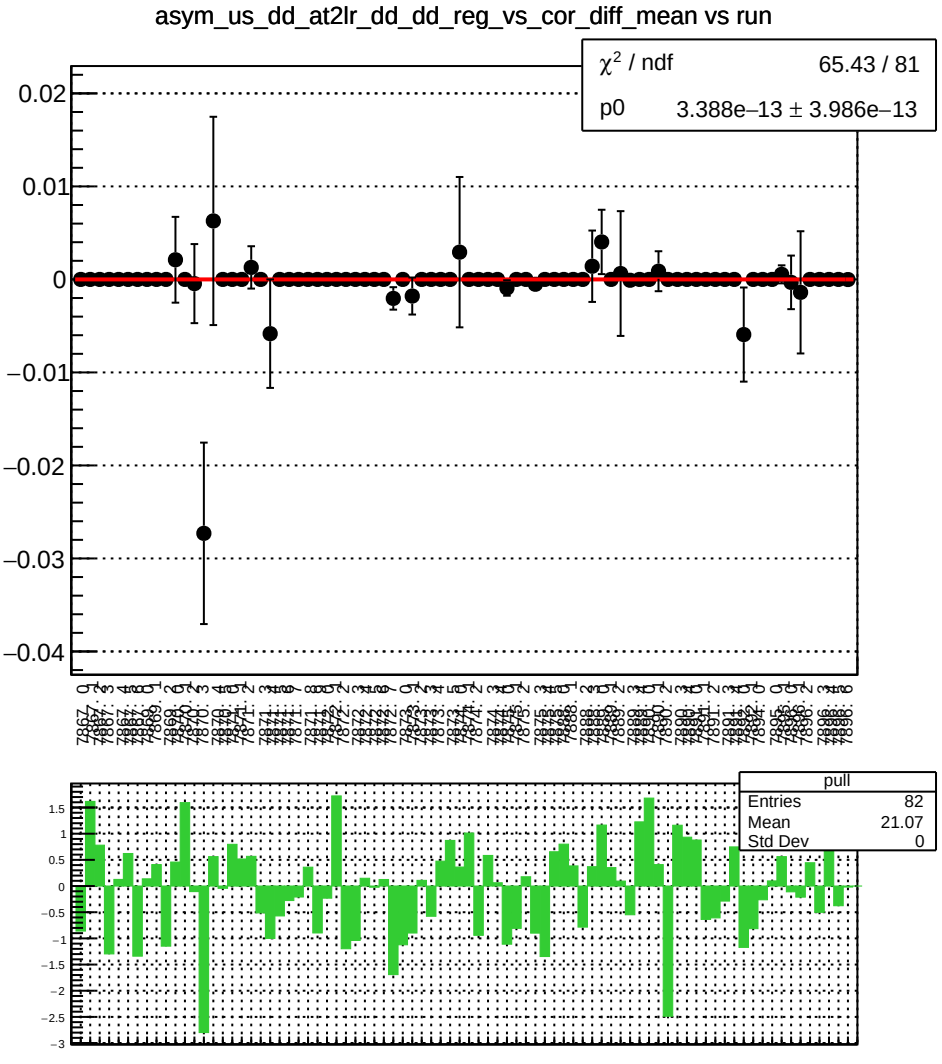

pull1D
Entries 82
Mean 0.008638
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

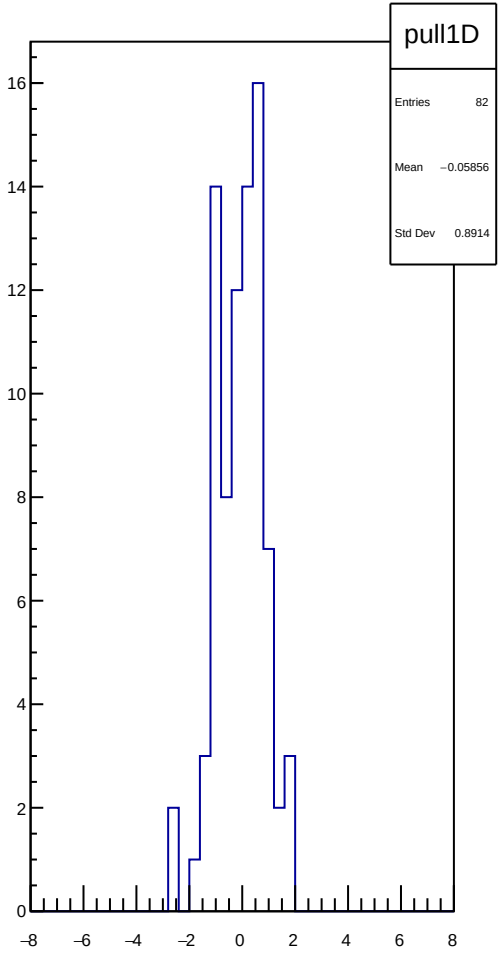

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.378e+04 / 81
p0 1556 ± 1.227
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

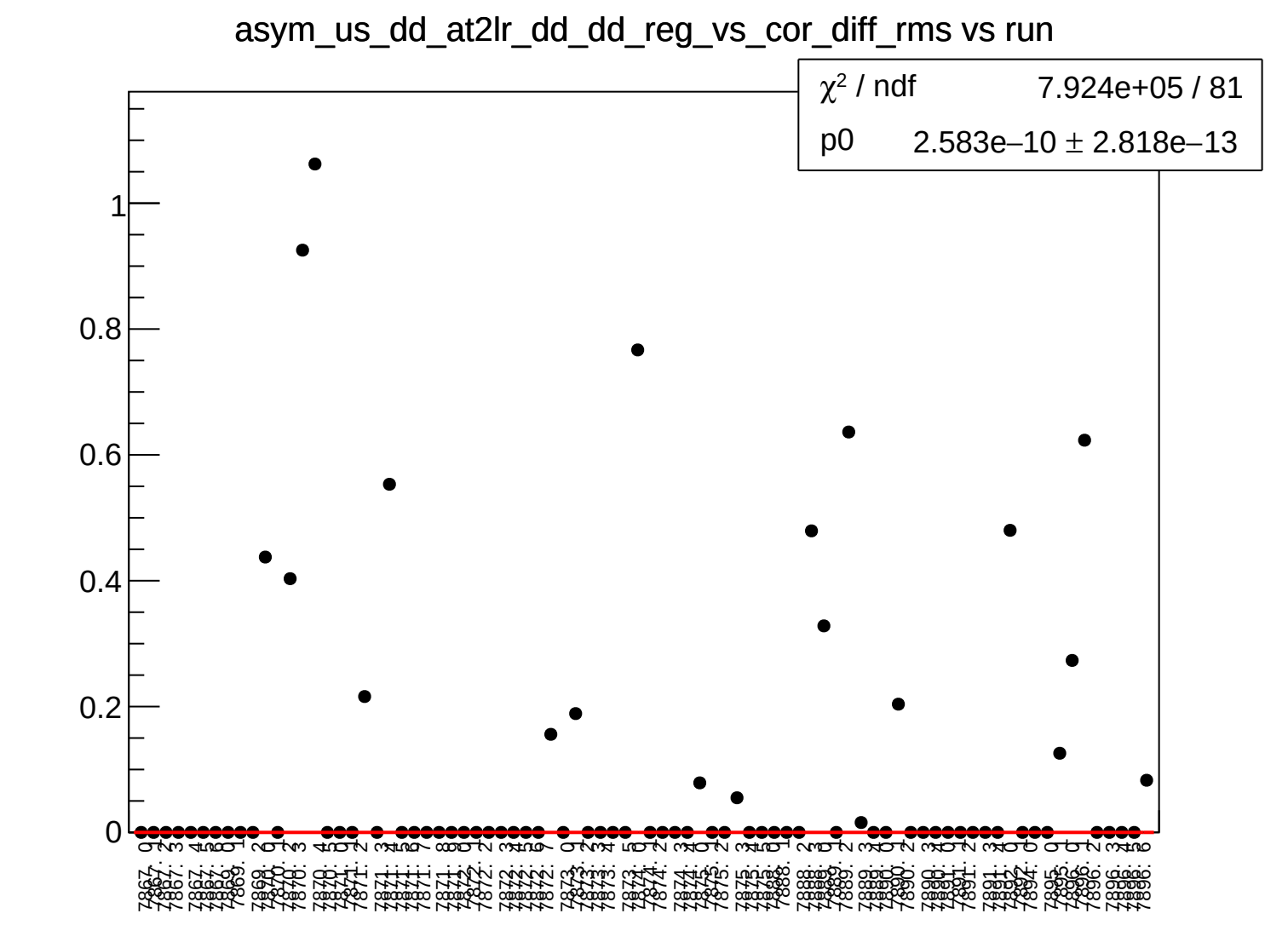

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.15 / 81
p0 2334 ± 2507
pull
Entries 82
Mean −595.9
Std Dev 0

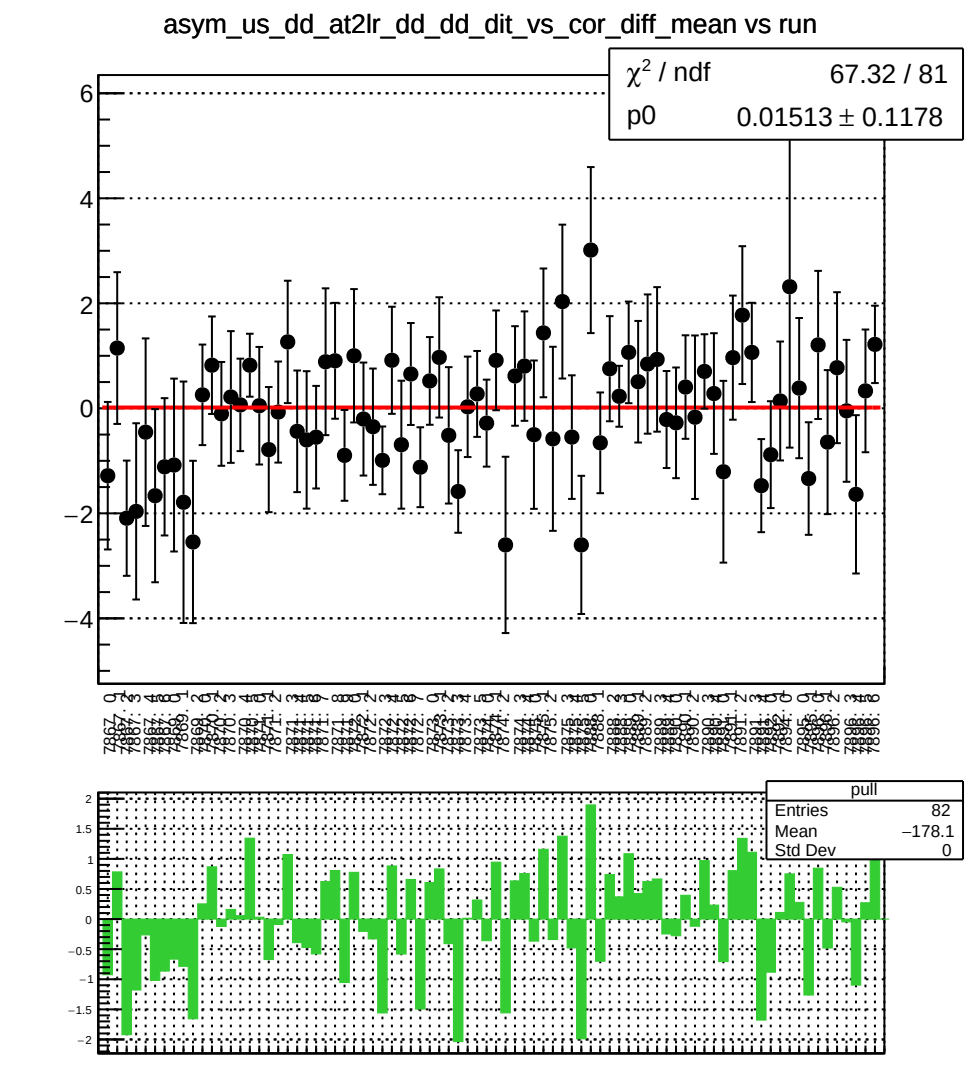

pull1D
Entries 82
Mean −0.005519
Std Dev 0.9183

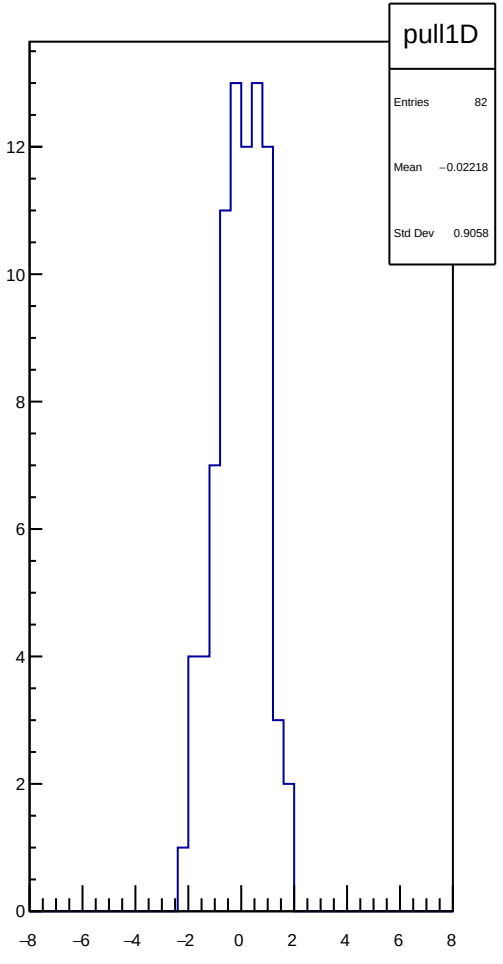

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.236e+04 / 81
p0 2256 ± 1.773
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

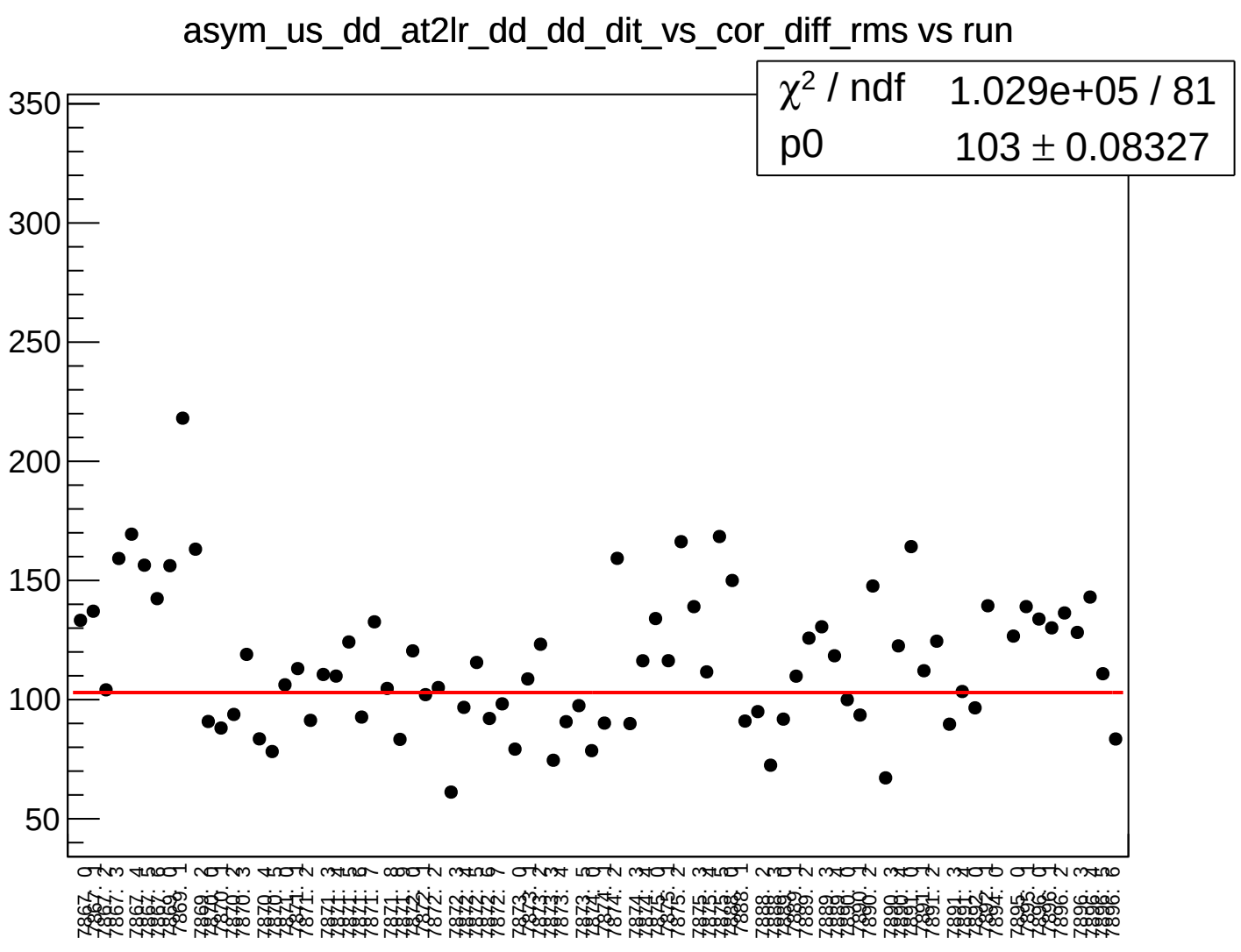

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.43 / 81
p0 3.388e−13 ± 3.986e−13
pull
Entries 82
Mean 21.07
Std Dev 0

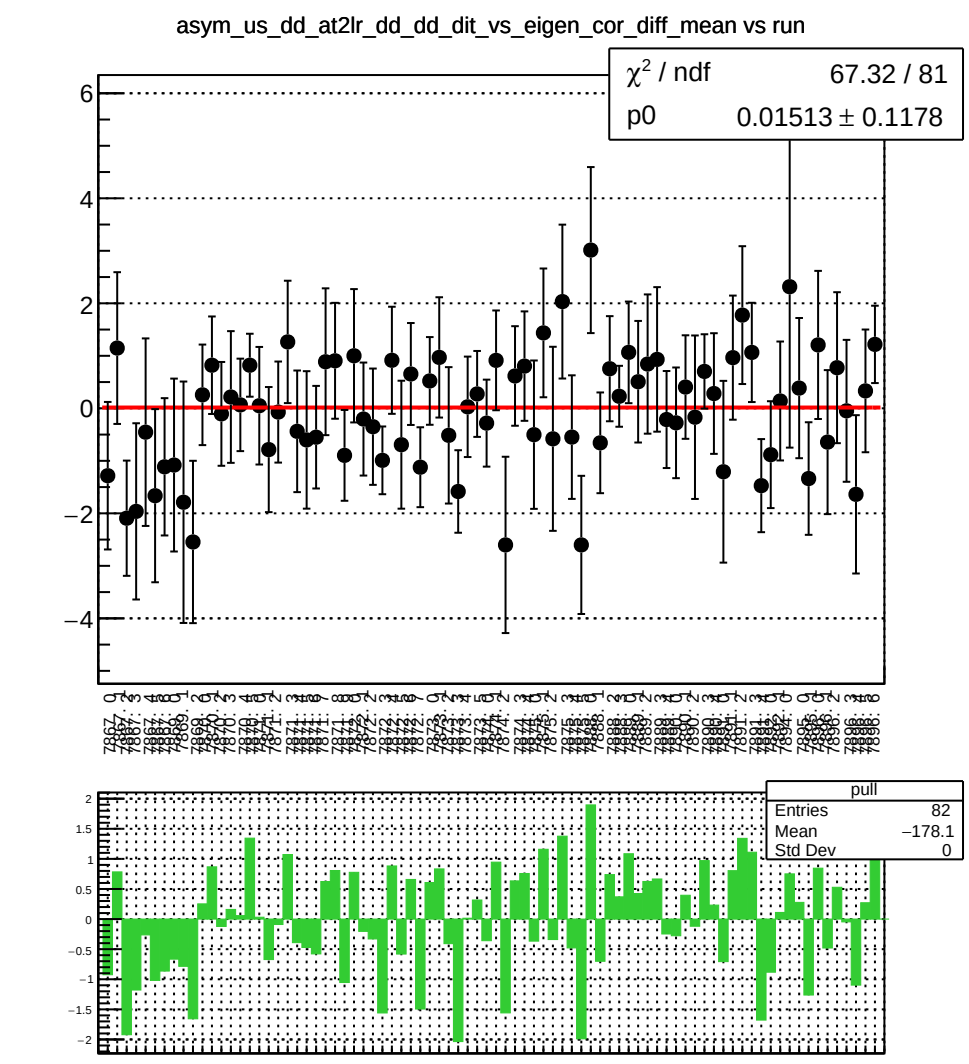

pull1D
Entries 82
Mean −0.05856
Std Dev 0.8914

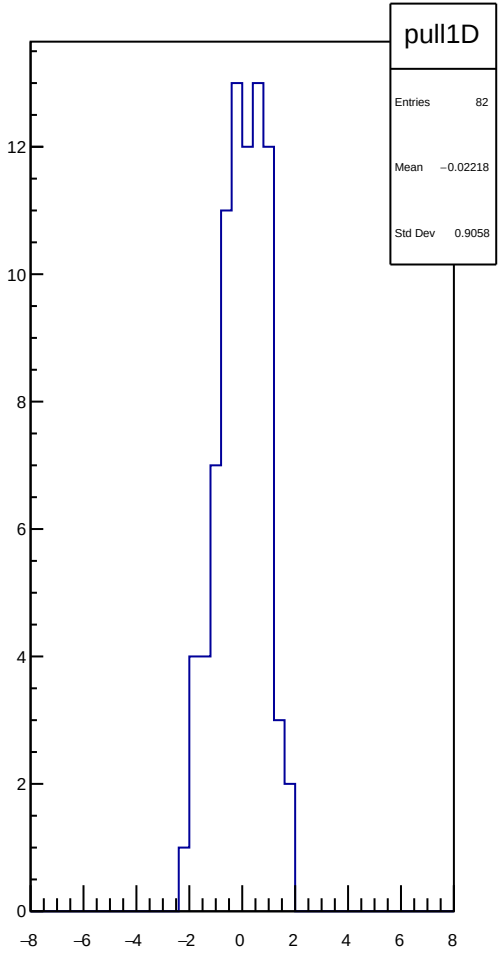

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.924e+05 / 81
p0 2.583e−10 ± 2.818e−13
1
0.8
0.6
0.4
0.2
0

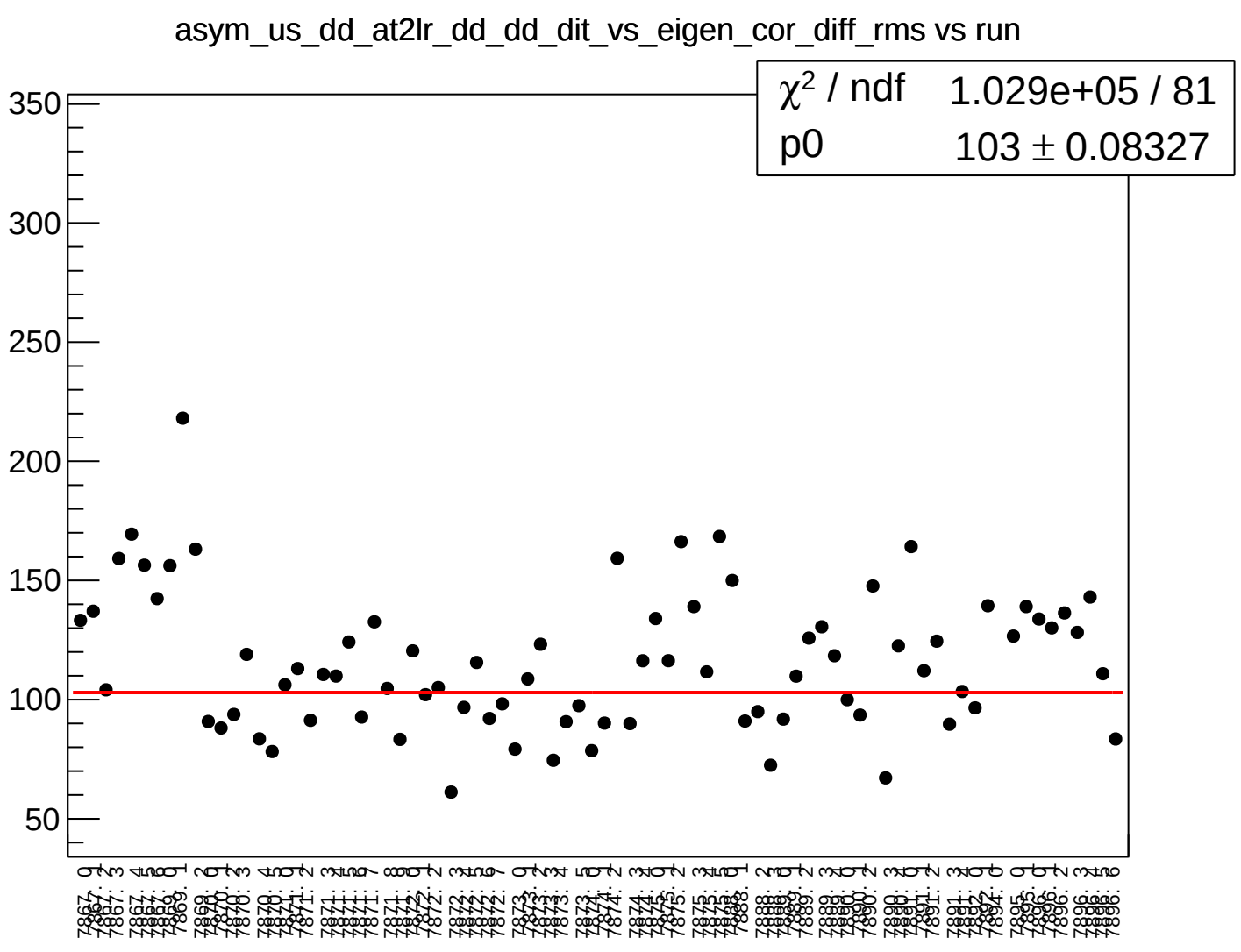

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.32 / 81
p0 0.01513 ± 0.1178
pull
Entries 82
Mean −178.1
Std Dev 0

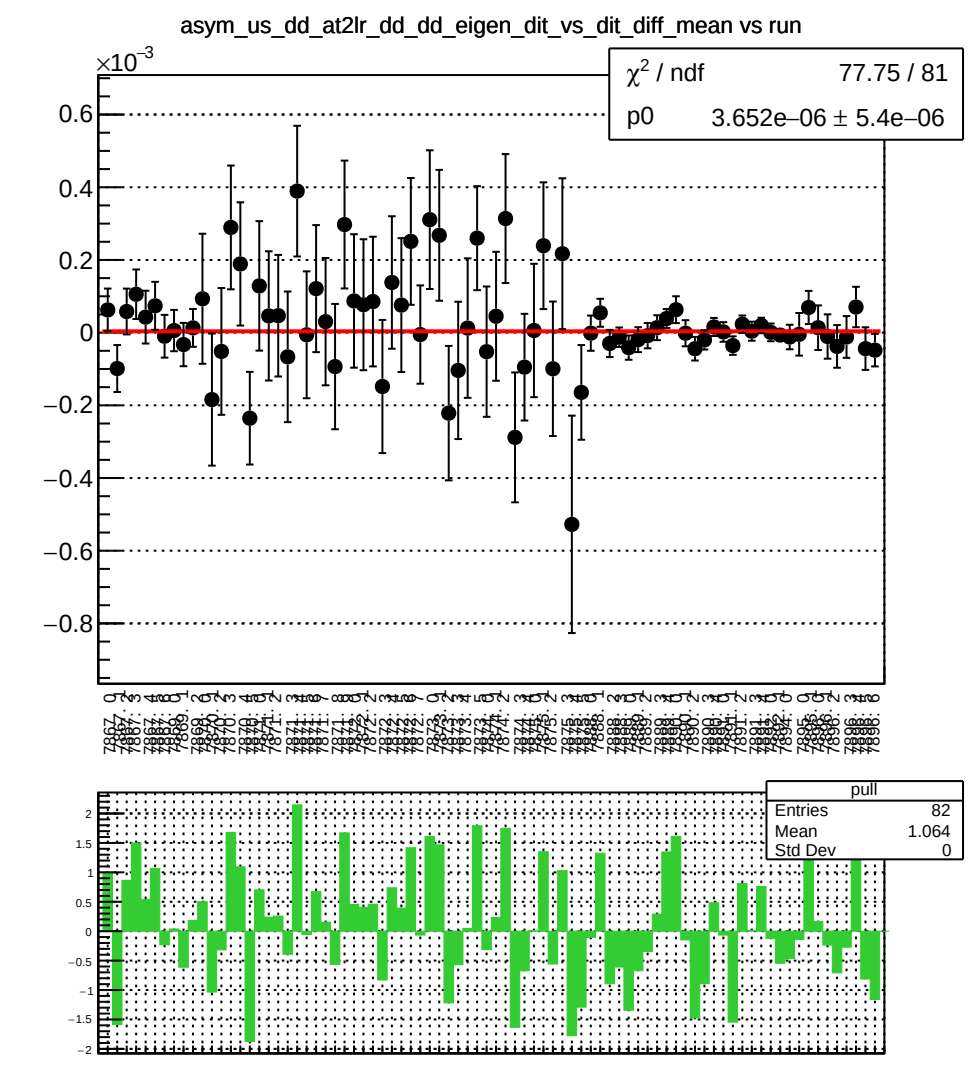

pull1D
Entries 82
Mean −0.02218
Std Dev 0.9058

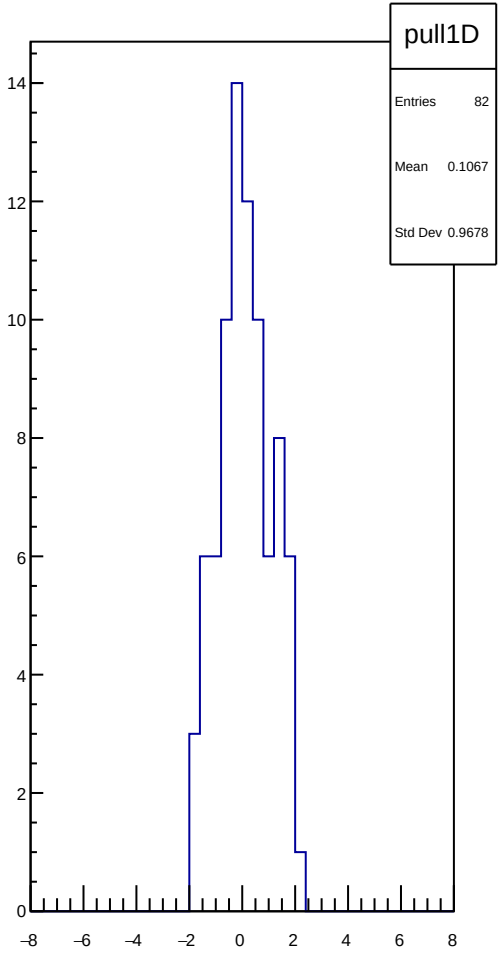

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.029e+05 / 81
p0 103 ± 0.08327
350
300
250
200
150
100
50

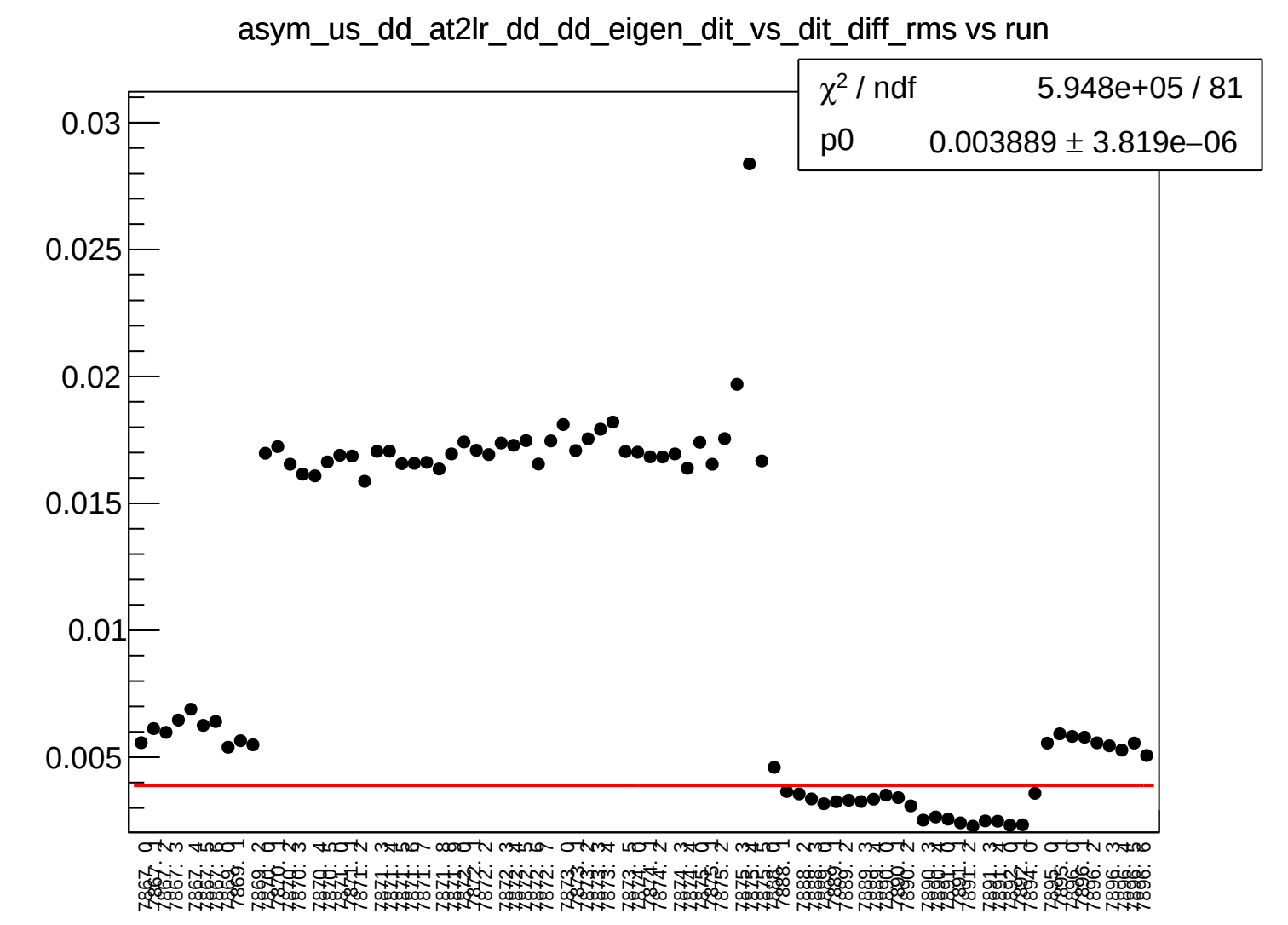

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.32 / 81
p0 0.01513 ± 0.1178
pull
Entries 82
Mean −178.1
Std Dev 0

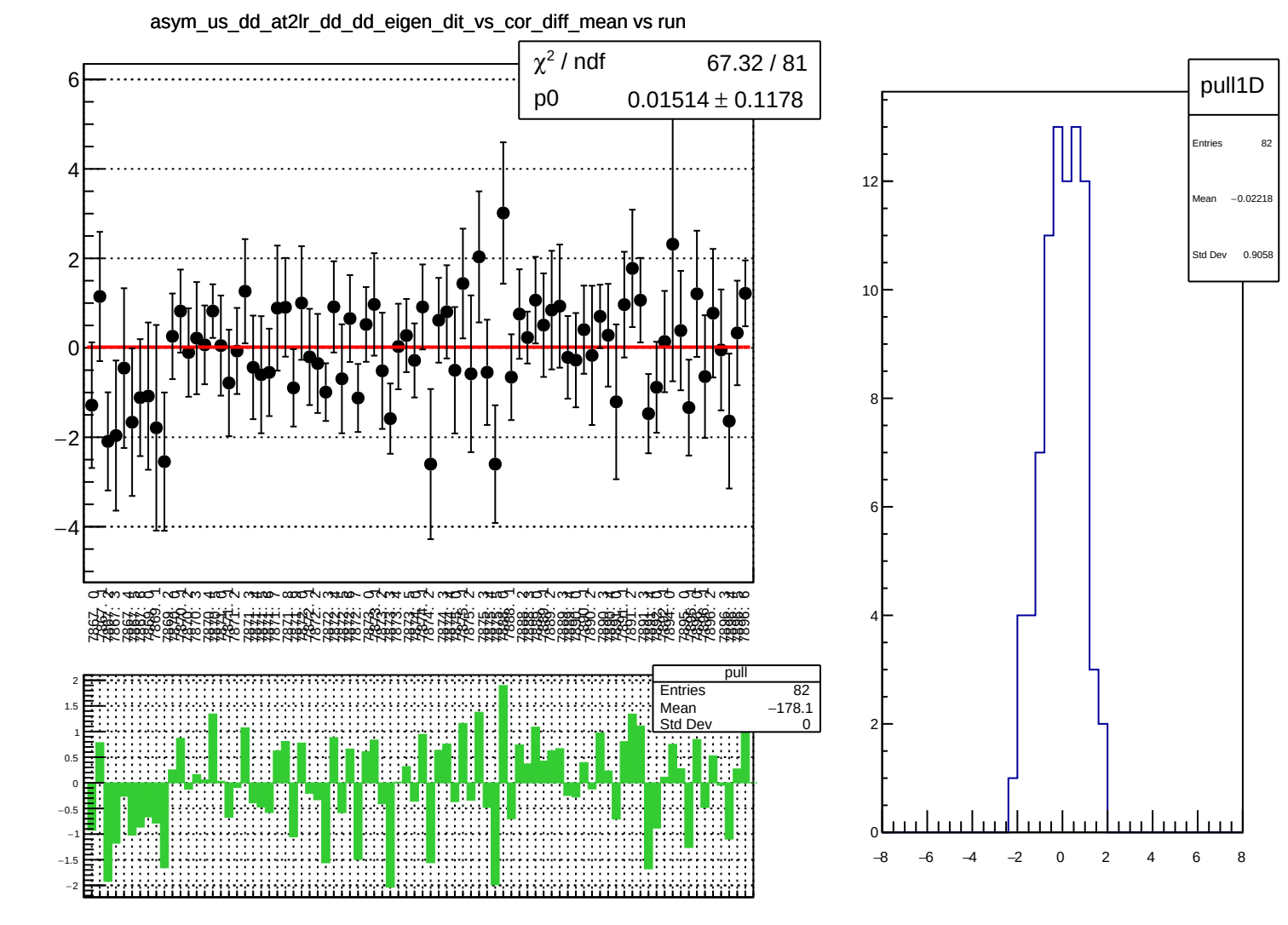

pull1D
Entries 82
Mean −0.02218
Std Dev 0.9058

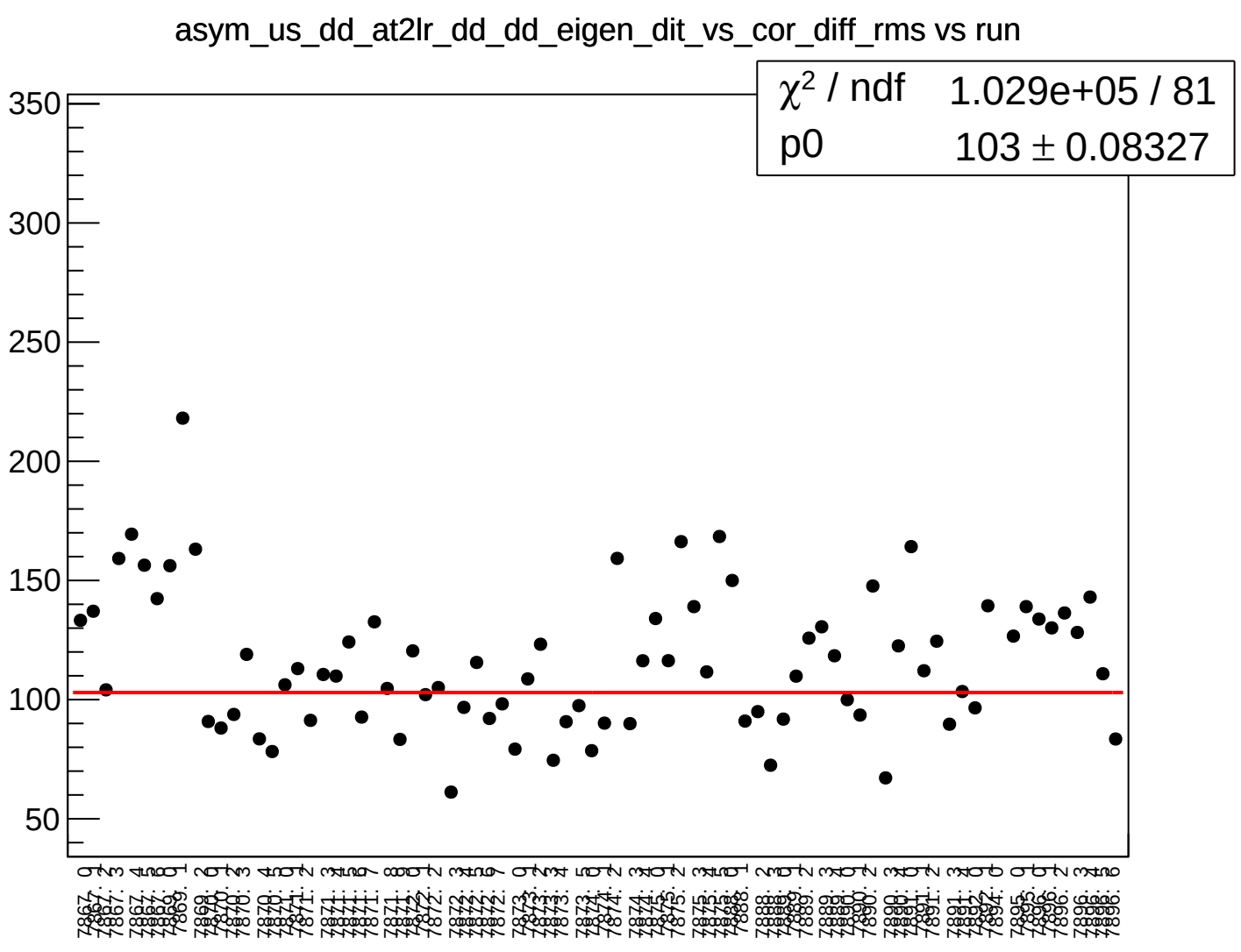

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.029e+05 / 81
p0 103 ± 0.08327
350
300
250
200
150
100
50

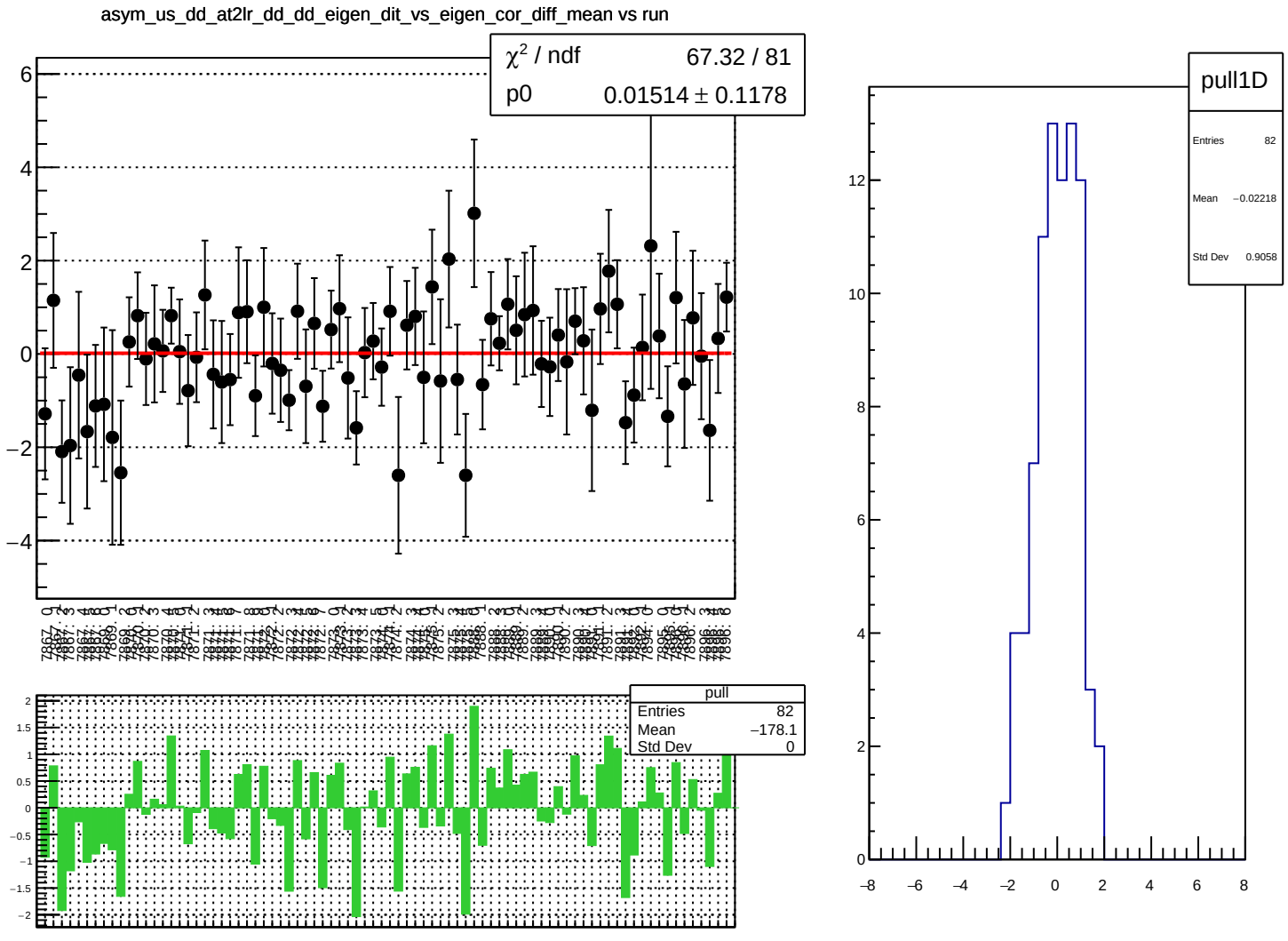

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.75 / 81
p0 3.652e−06 ± 5.4e−06
pull
Entries 82
Mean 1.064
Std Dev 0

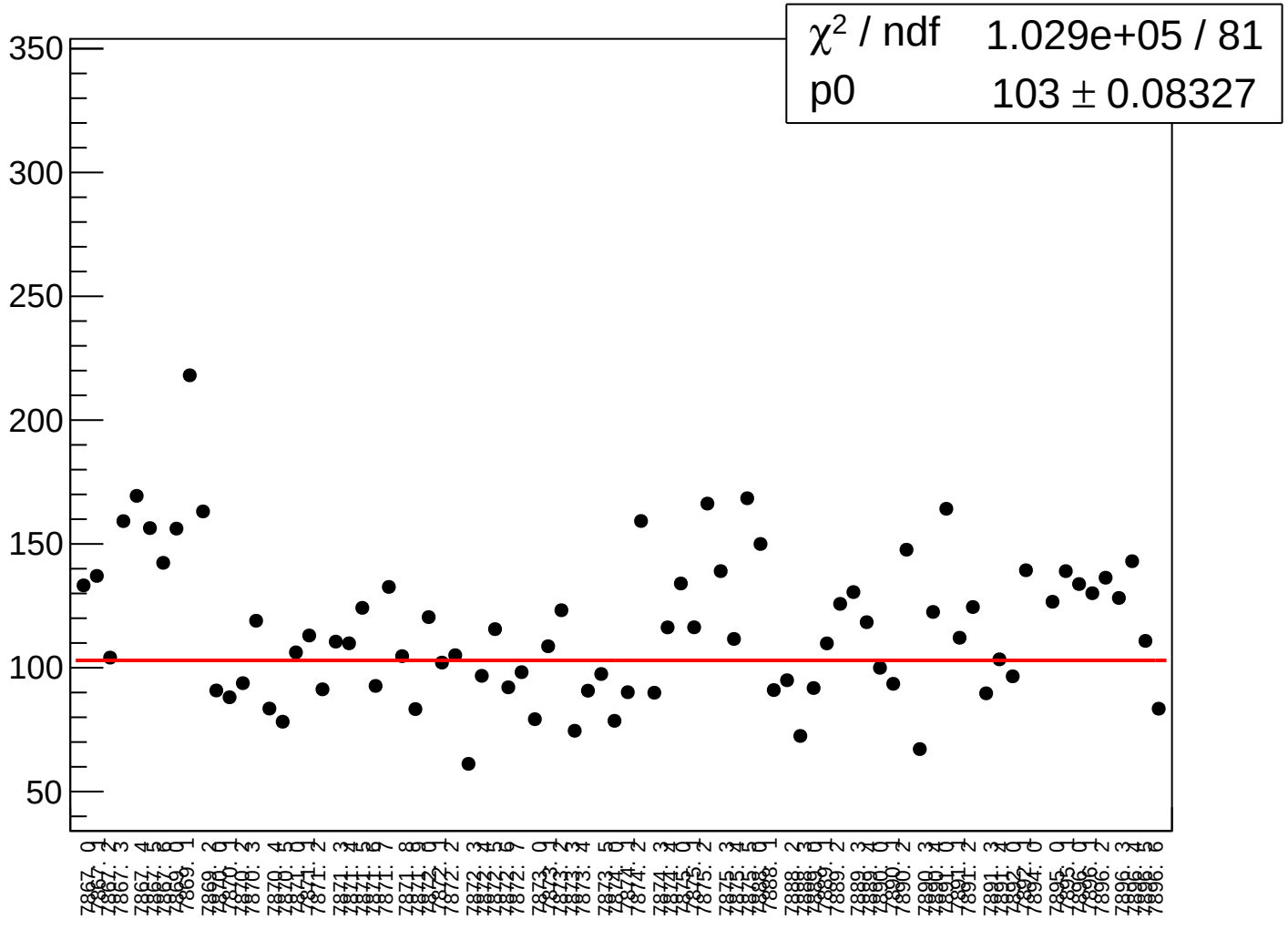

pull1D
Entries 82
Mean 0.1067
Std Dev 0.9678

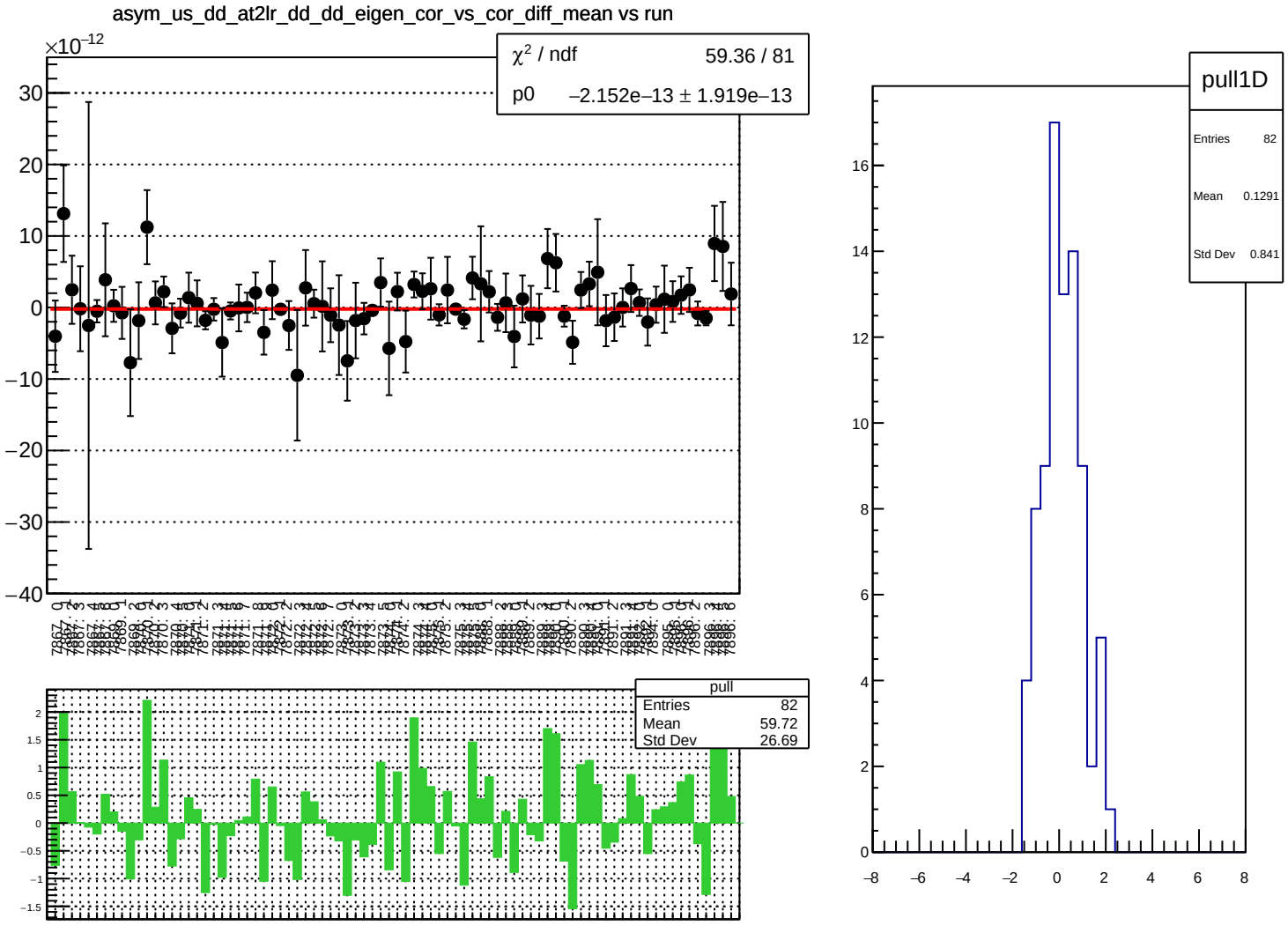

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.948e+05 / 81
p0 0.003889 ± 3.819e−06
0.03
0.025
0.02
0.015
0.01
0.005

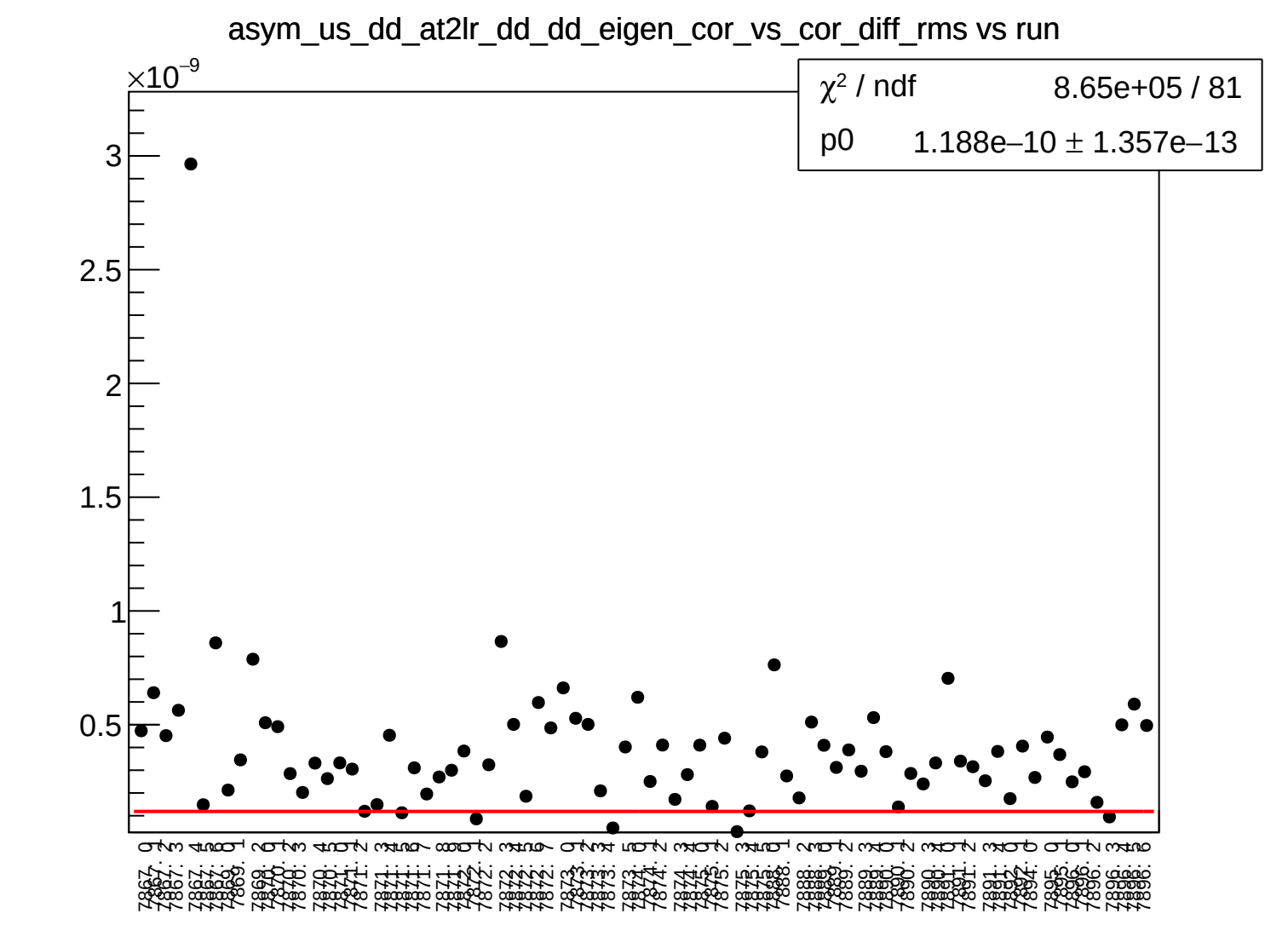

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.32 / 81
p0 0.01514 ± 0.1178
pull
Entries 82
Mean −178.1
Std Dev 0
pull1D
Entries 82
Mean −0.02218
Std Dev 0.9058

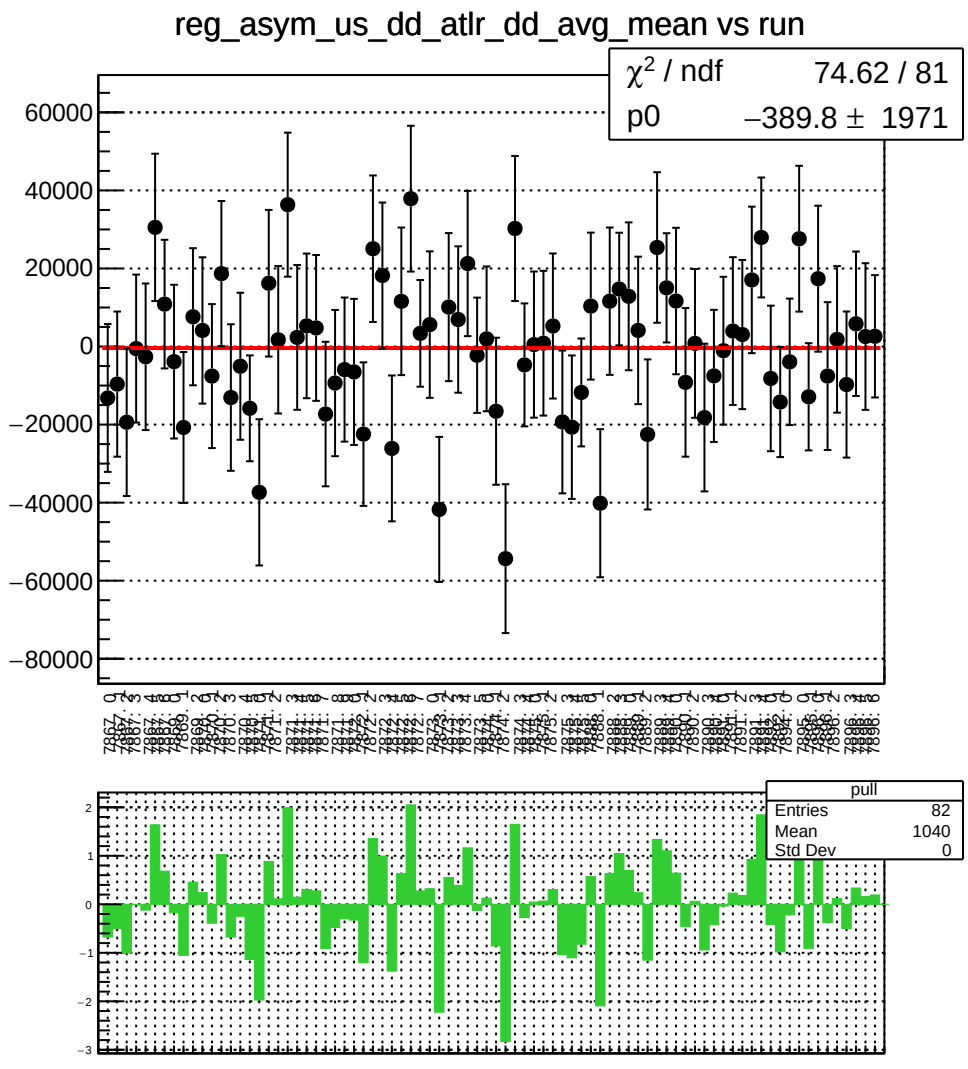

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.029e+05 / 81
p0 103 ± 0.08327
350
300
250
200
150
100
50

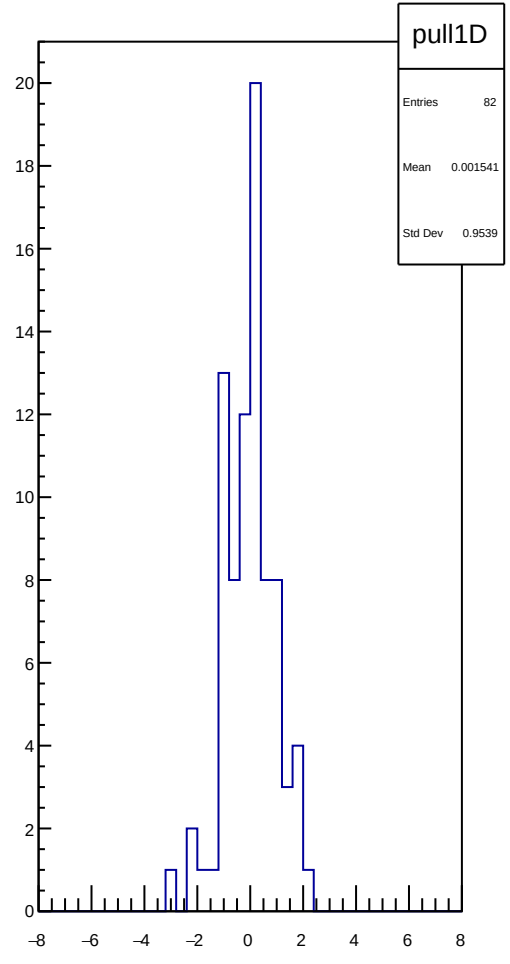

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.32 / 81
p0 0.01514 ± 0.1178
pull
Entries 82
Mean −178.1
Std Dev 0
pull1D
Entries 82
Mean −0.02218
Std Dev 0.9058

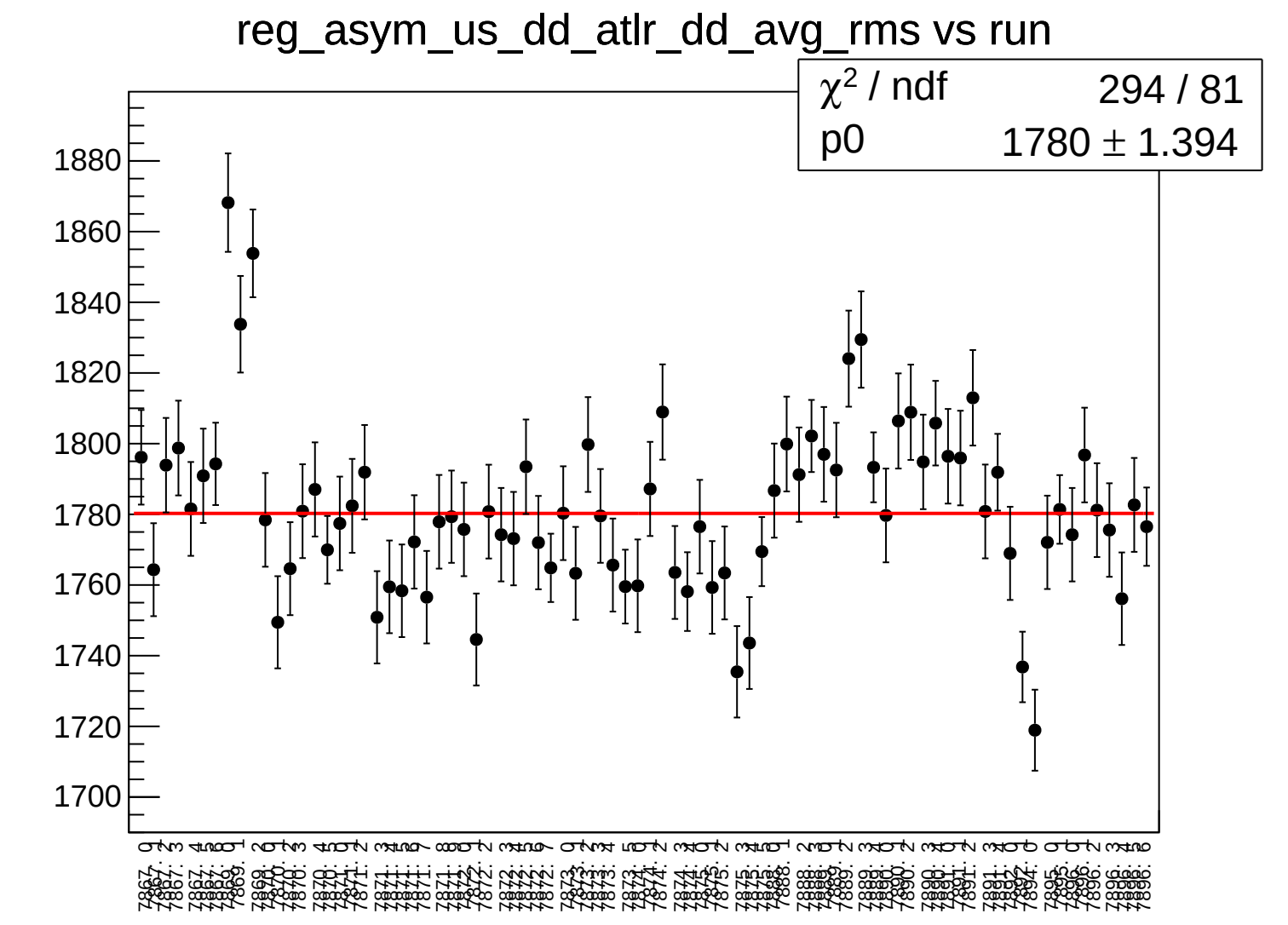

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.029e+05 / 81
p0 103 ± 0.08327
350
300
250
200
150
100
50

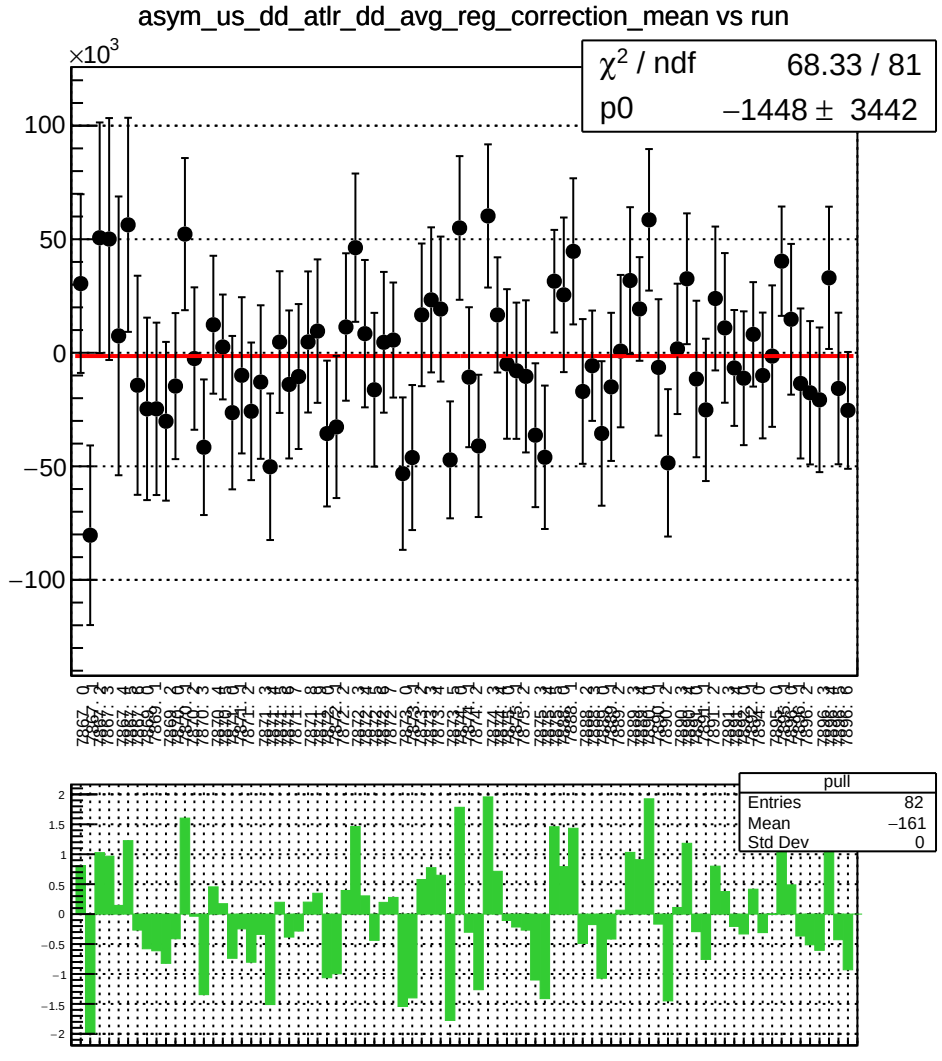

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.36 / 81
p0 −2.152e−13 ± 1.919e−13
pull
Entries 82
Mean 59.72
Std Dev 26.69
pull1D
Entries 82
Mean 0.1291
Std Dev 0.841

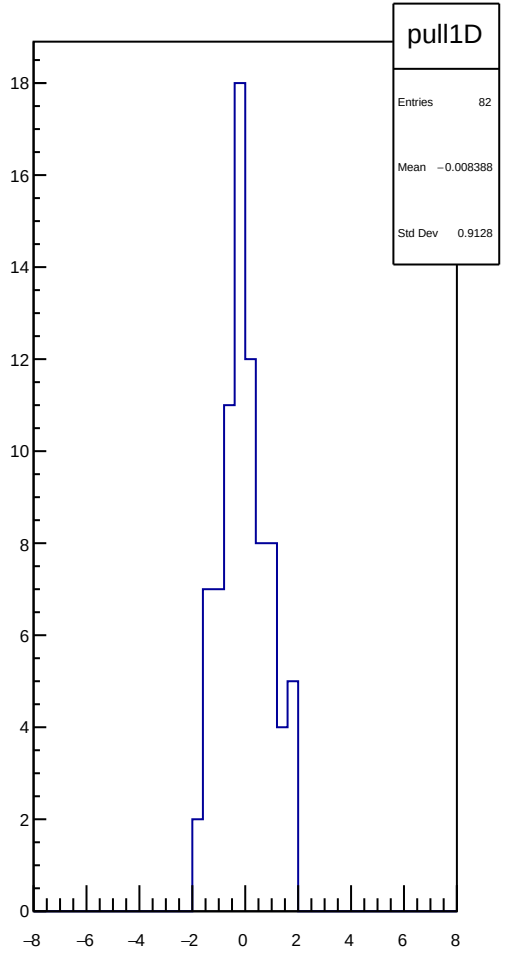

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.65e+05 / 81
p0 1.188e−10 ± 1.357e−13
3
2.5
2
1.5
1
0.5

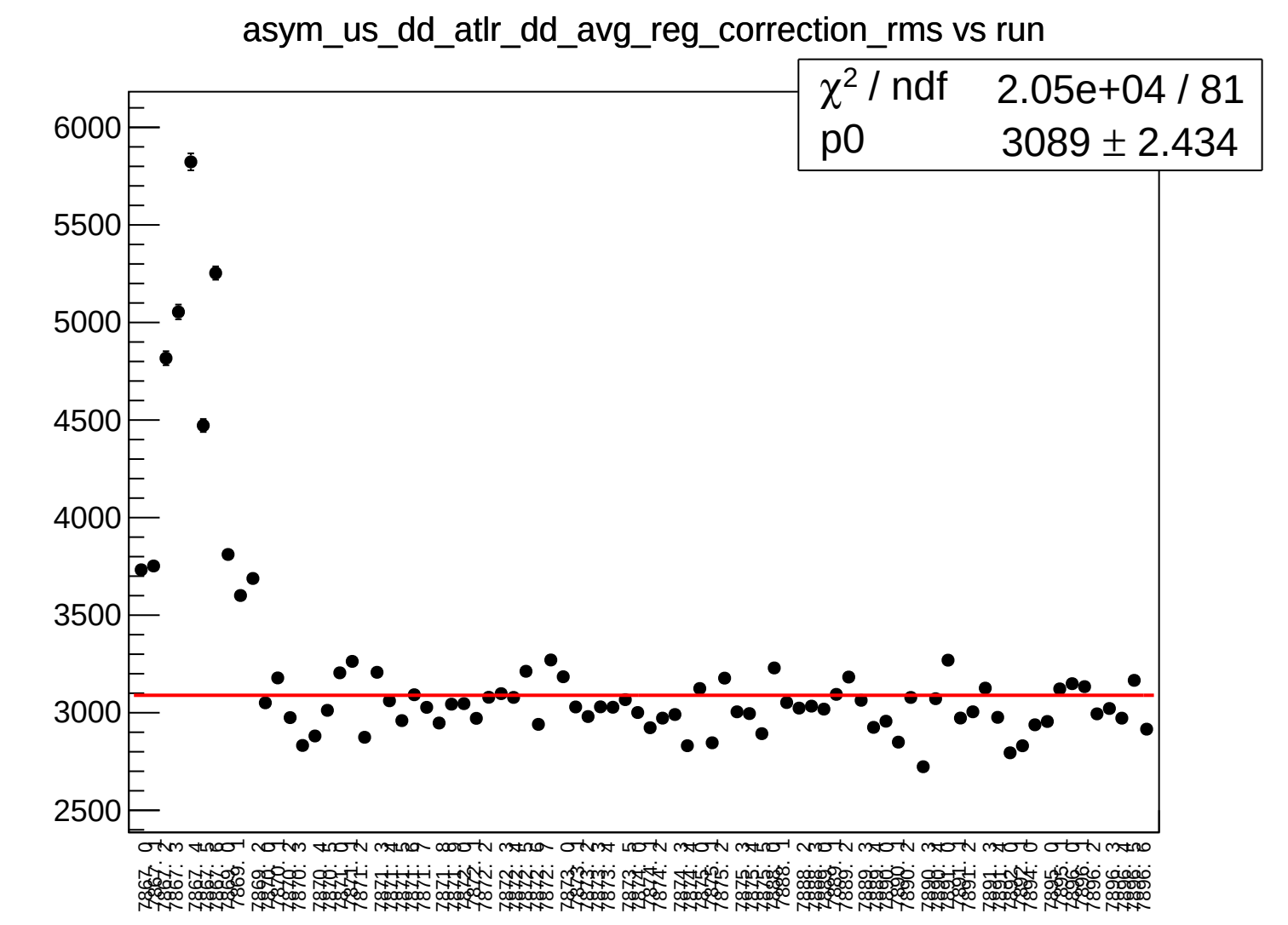

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 74.62 / 81
p0 −389.8 ± 1971
pull
Entries 82
Mean 1040
Std Dev 0

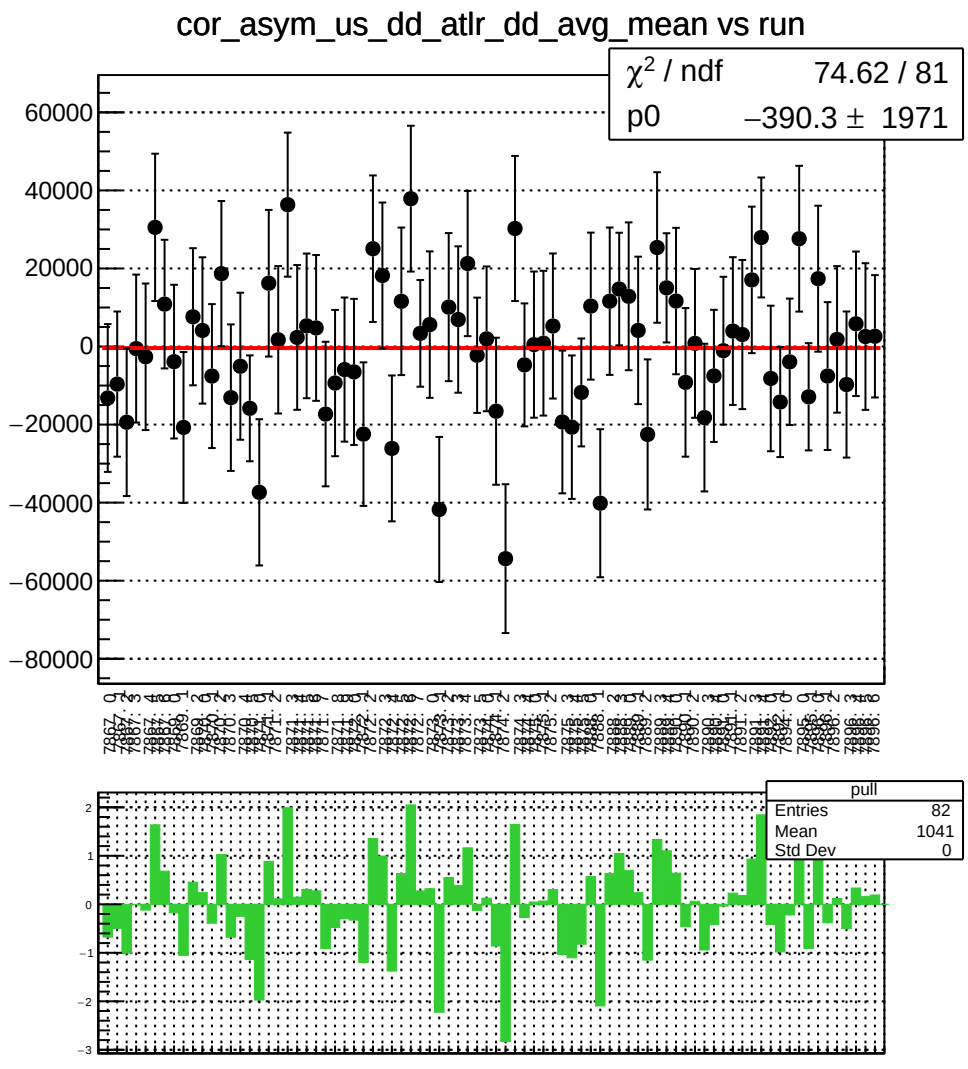

pull1D
Entries 82
Mean 0.001541
Std Dev 0.9539

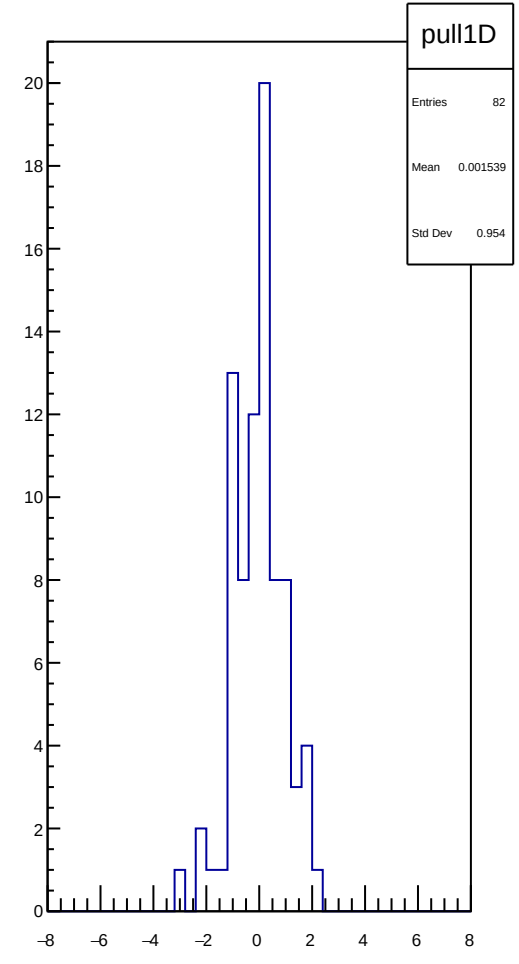

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 294 / 81
p0 1780 ± 1.394
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

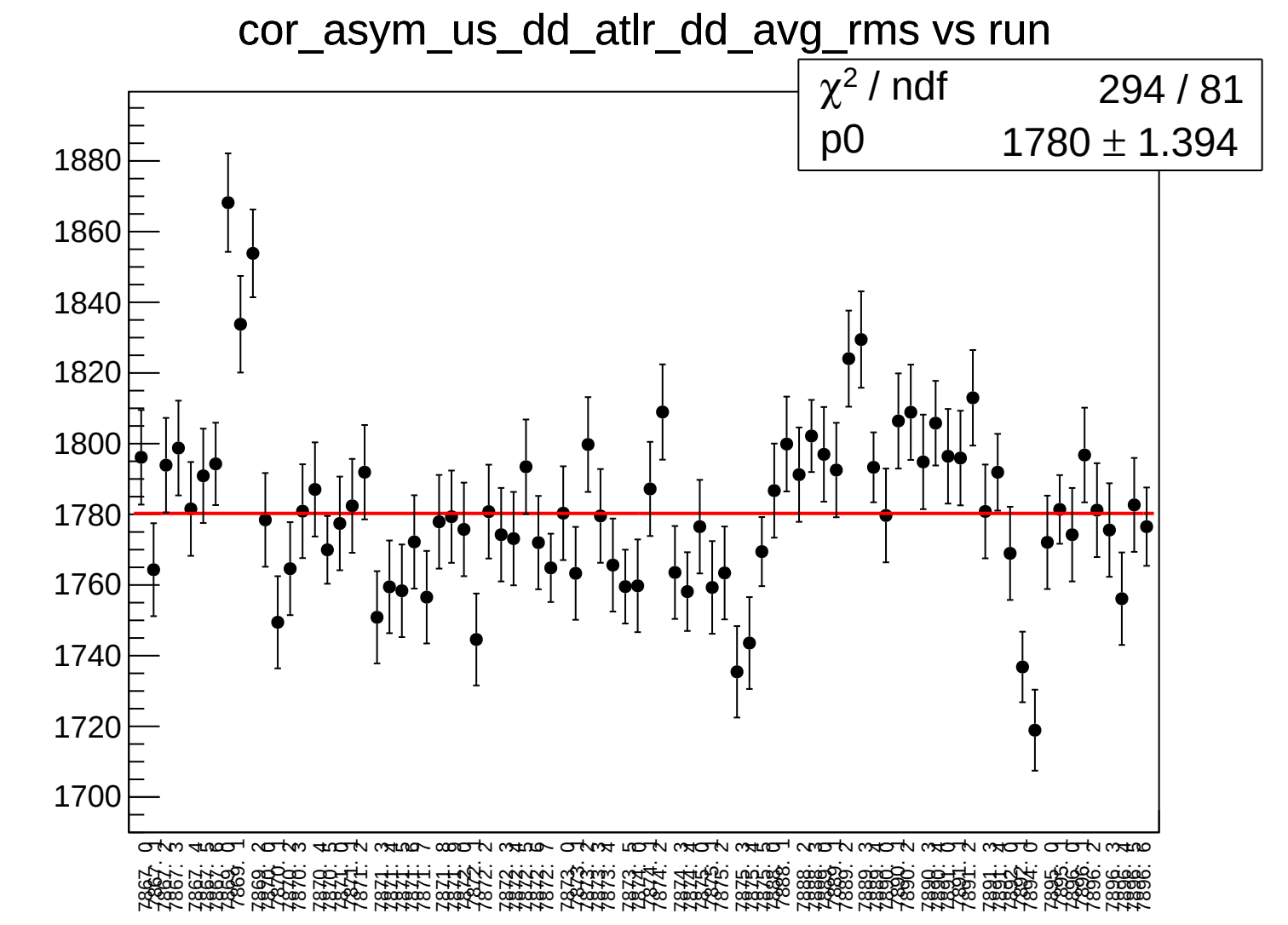

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 68.33 / 81
p0 −1448 ± 3442
100
50
0
−50
−100
pull
Entries 82
Mean −161
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

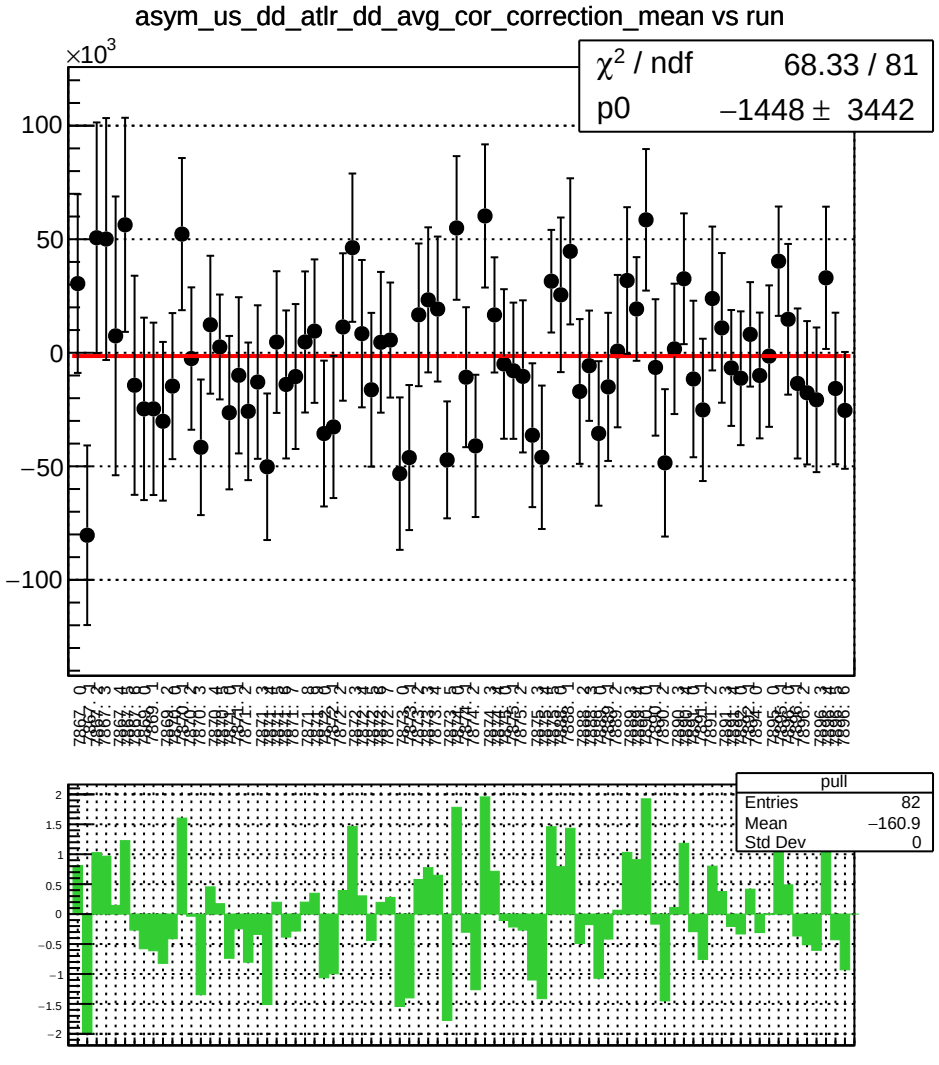

pull1D
Entries 82
Mean −0.008388
Std Dev 0.9128
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

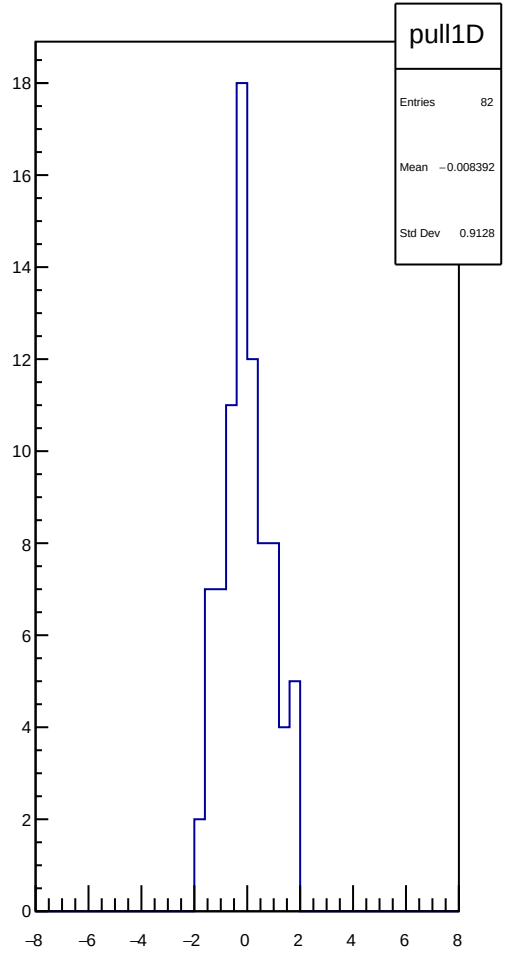

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.05e+04 / 81
p0 3089 ± 2.434
6000
5500
5000
4500
4000
3500
3000
2500

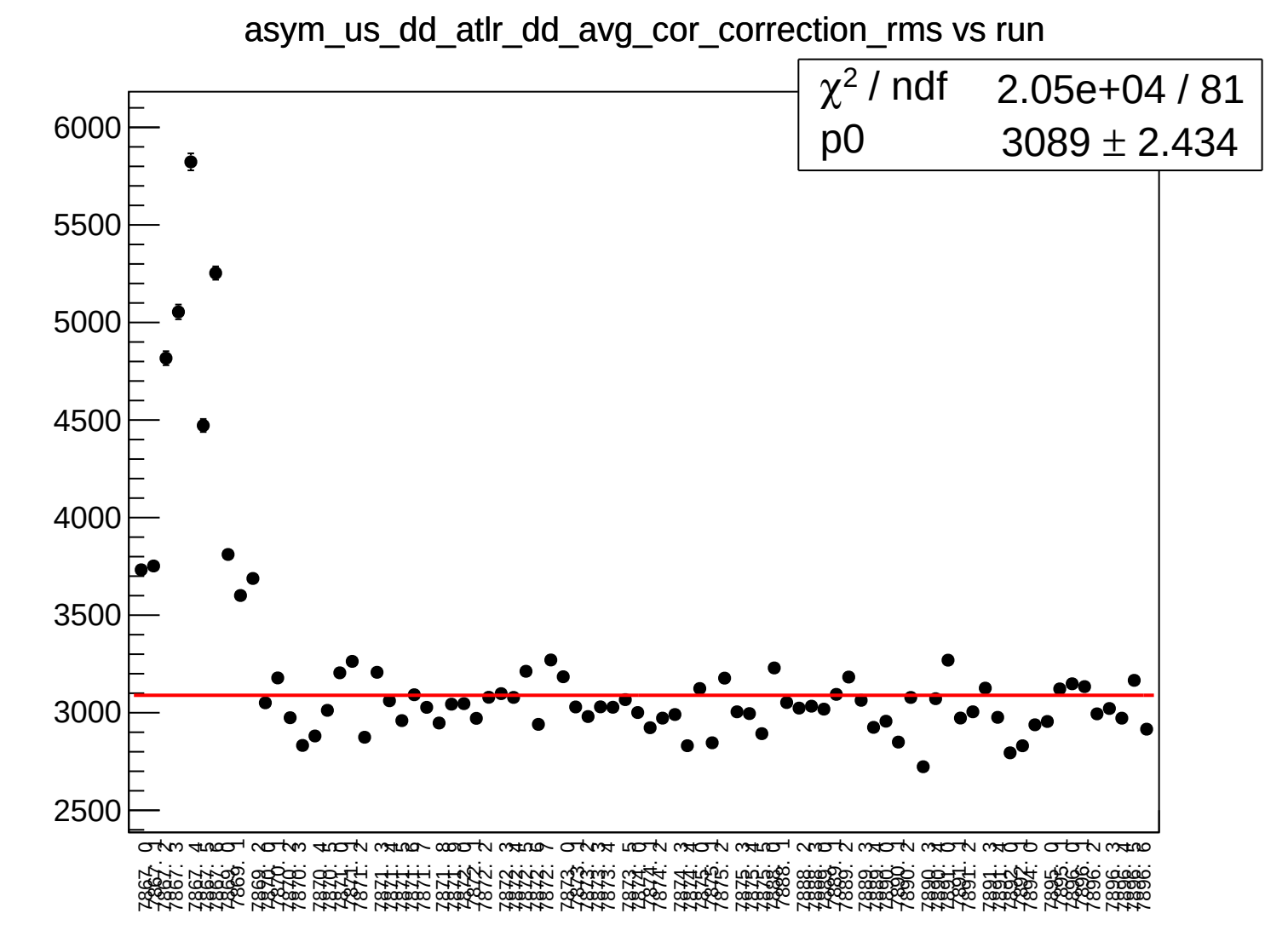

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 74.62 / 81
p0 −390.3 ± 1971
pull
Entries 82
Mean 1041
Std Dev 0

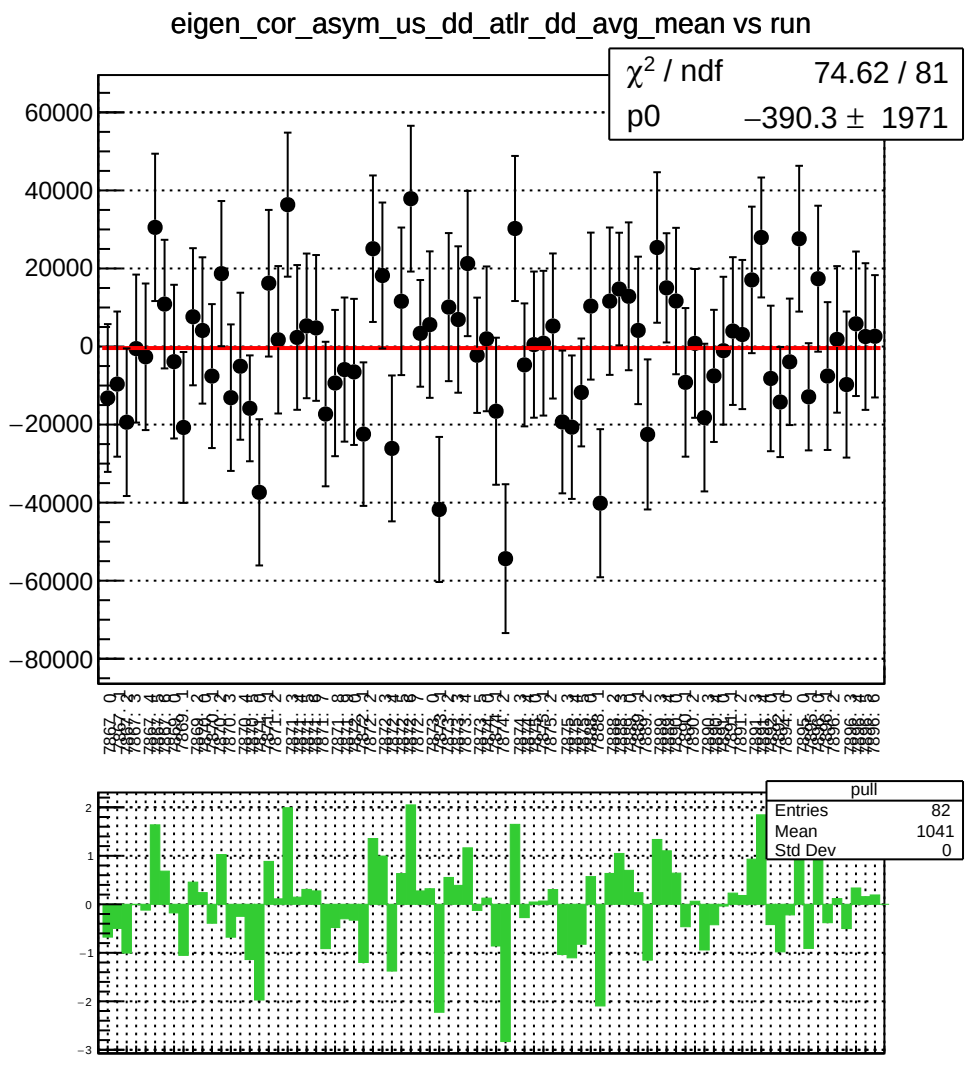

pull1D
Entries 82
Mean 0.001539
Std Dev 0.954

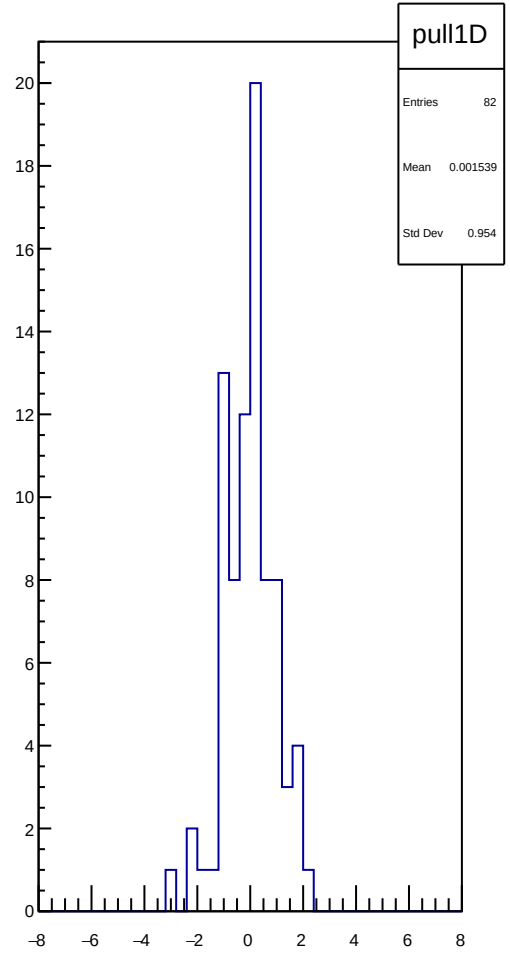

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 294 / 81
p0 1780 ± 1.394
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

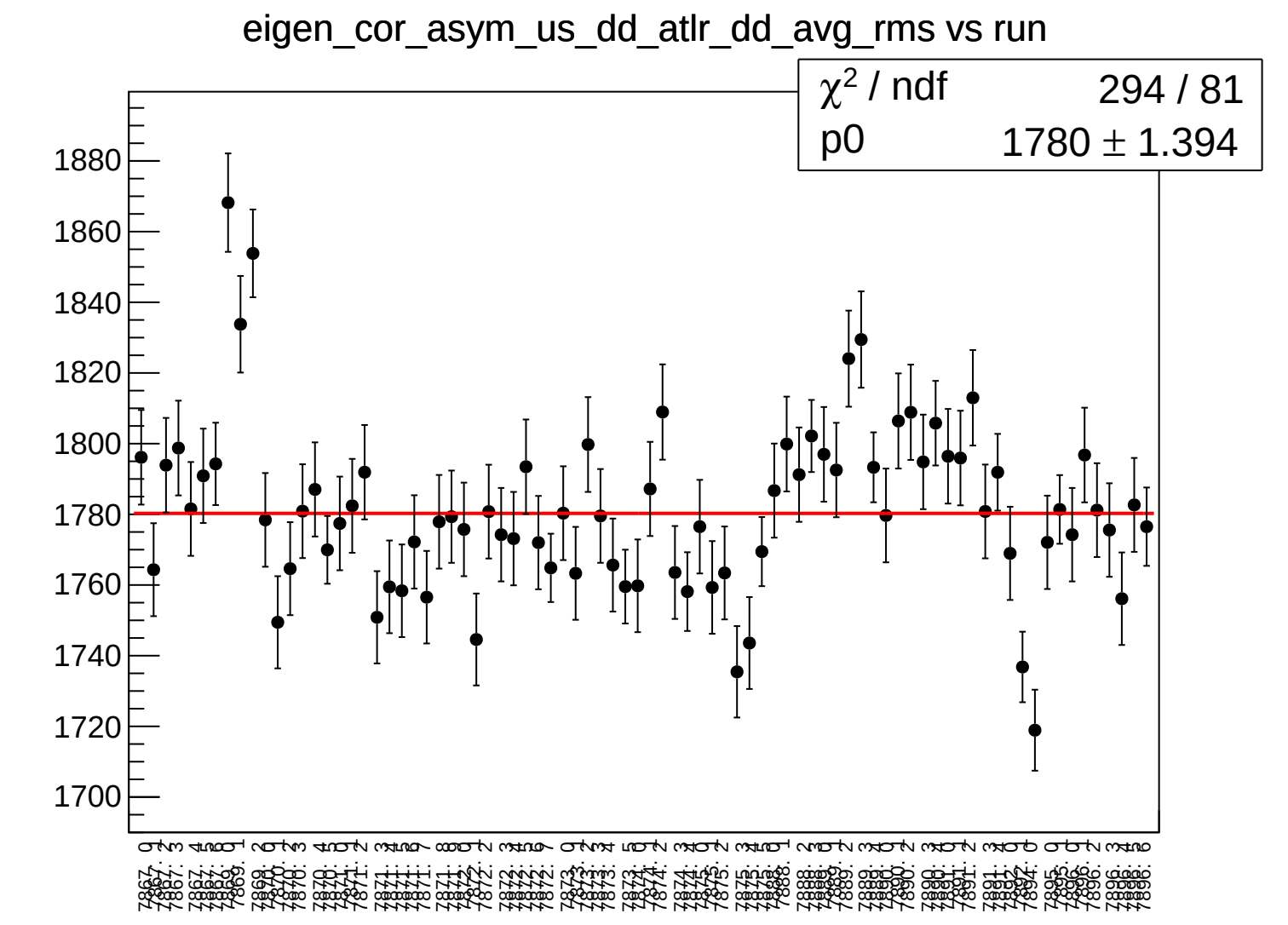

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 68.33 / 81
p0 −1448 ± 3442
pull
Entries 82
Mean −160.9
Std Dev 0

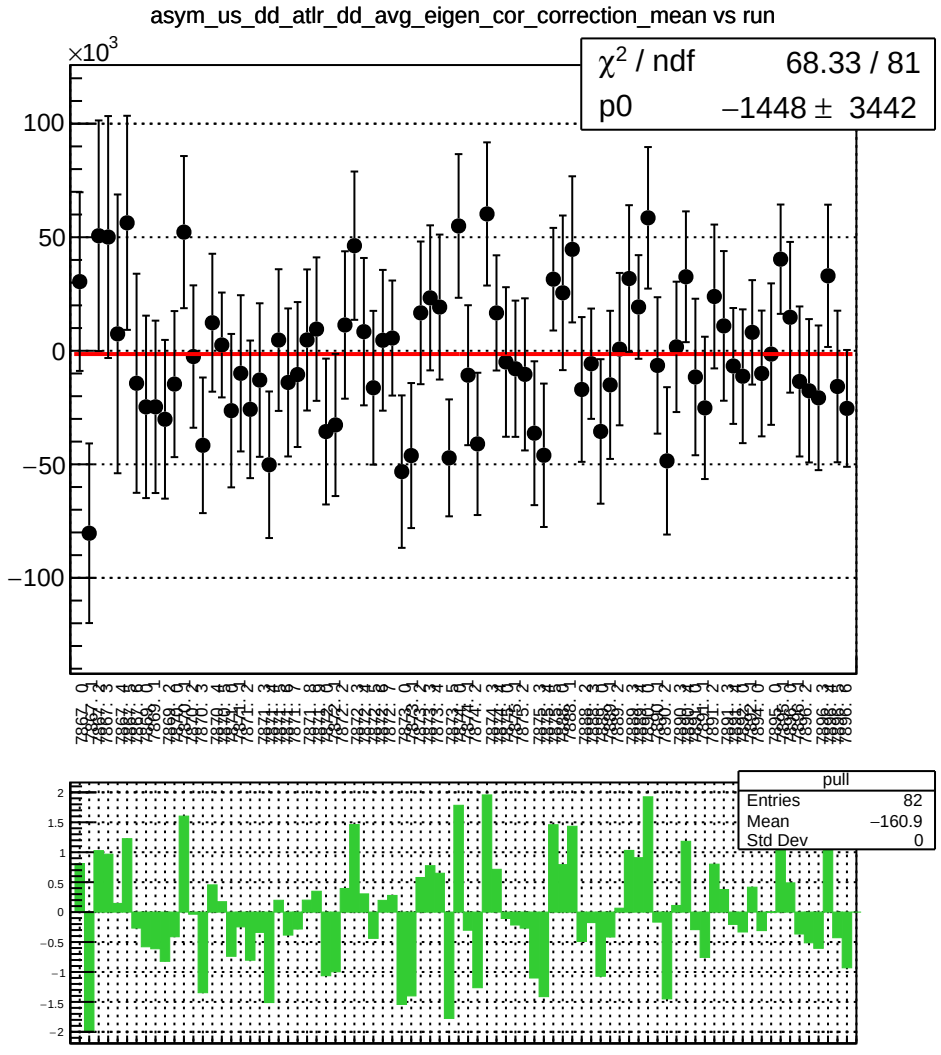

pull1D
Entries 82
Mean −0.008392
Std Dev 0.9128

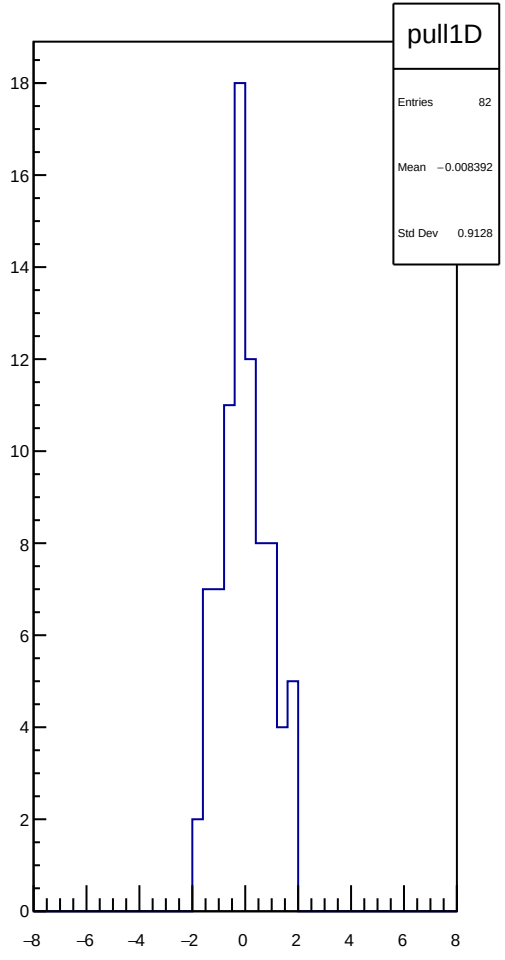

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.05e+04 / 81
p0 3089 ± 2.434
6000
5500
5000
4500
4000
3500
3000
2500

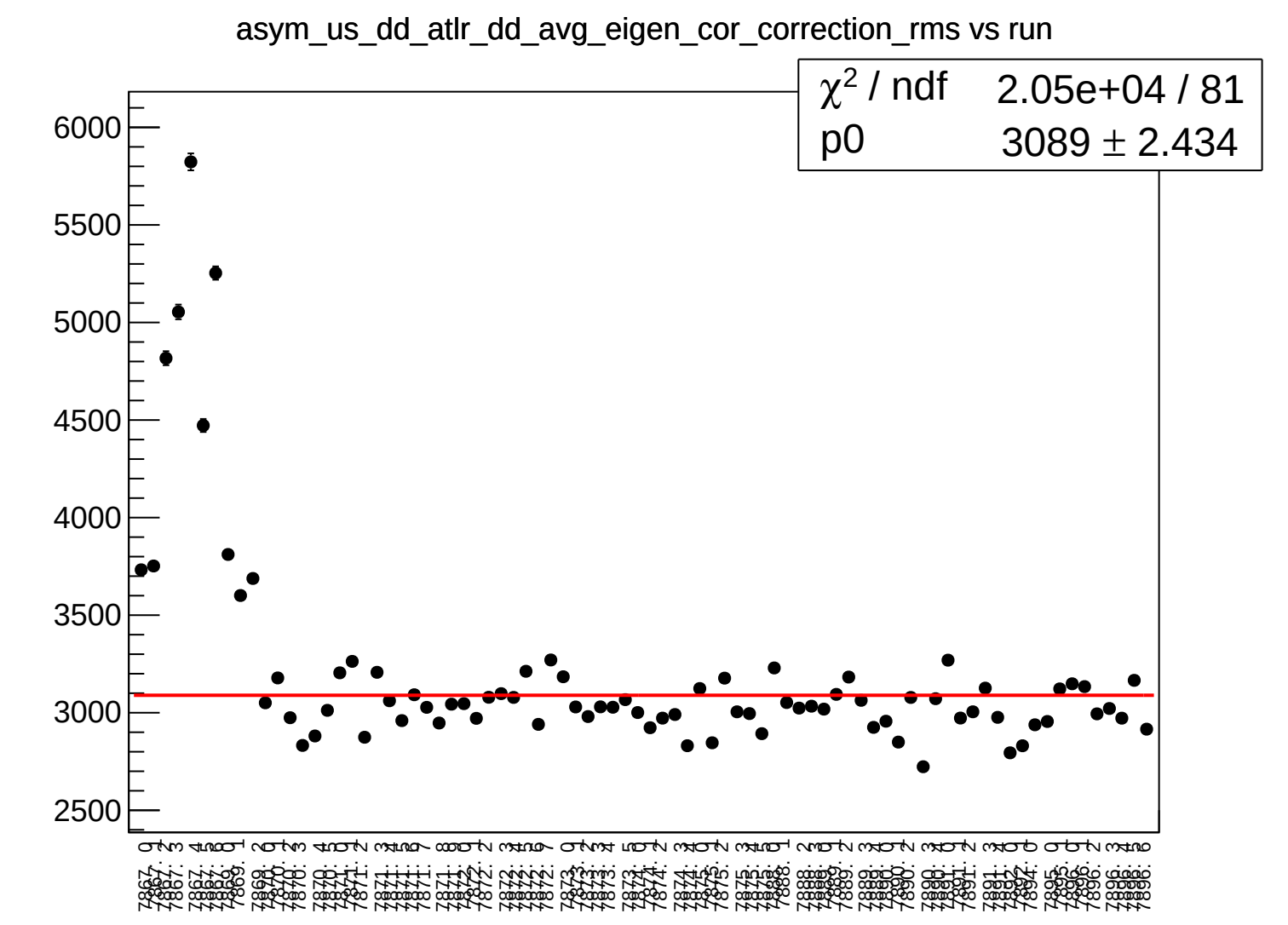

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 74.62 / 81
p0 −390.3 ± 1971
pull
Entries 82
Mean 1041
Std Dev 0

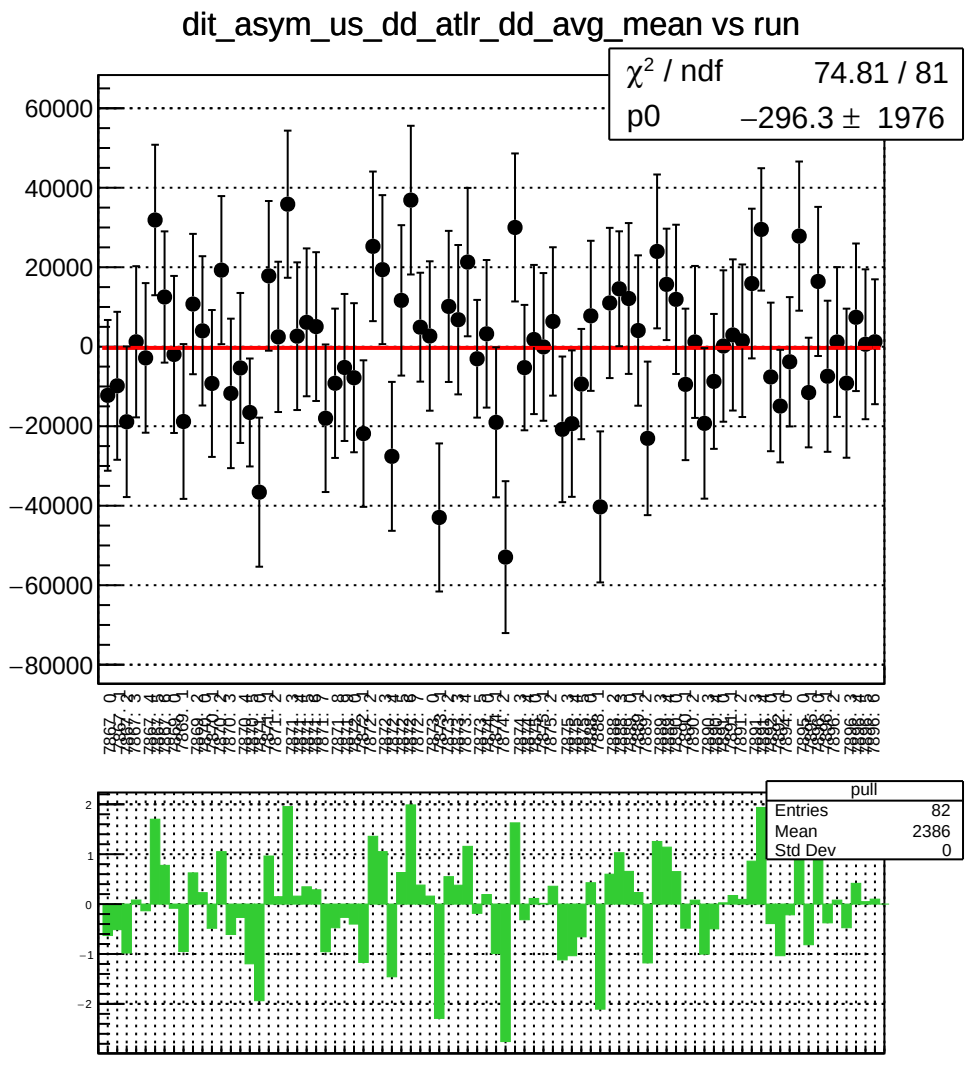

pull1D
Entries 82
Mean 0.001539
Std Dev 0.954

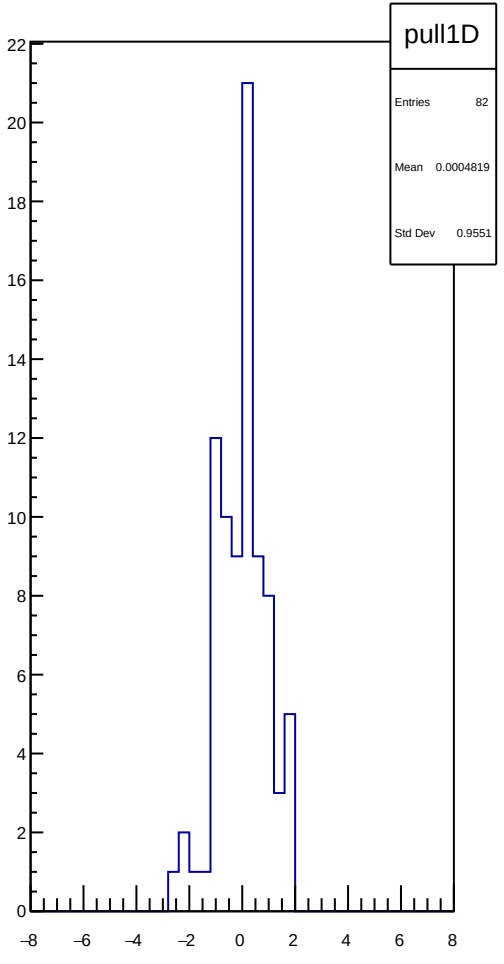

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 294 / 81
p0 1780 ± 1.394
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

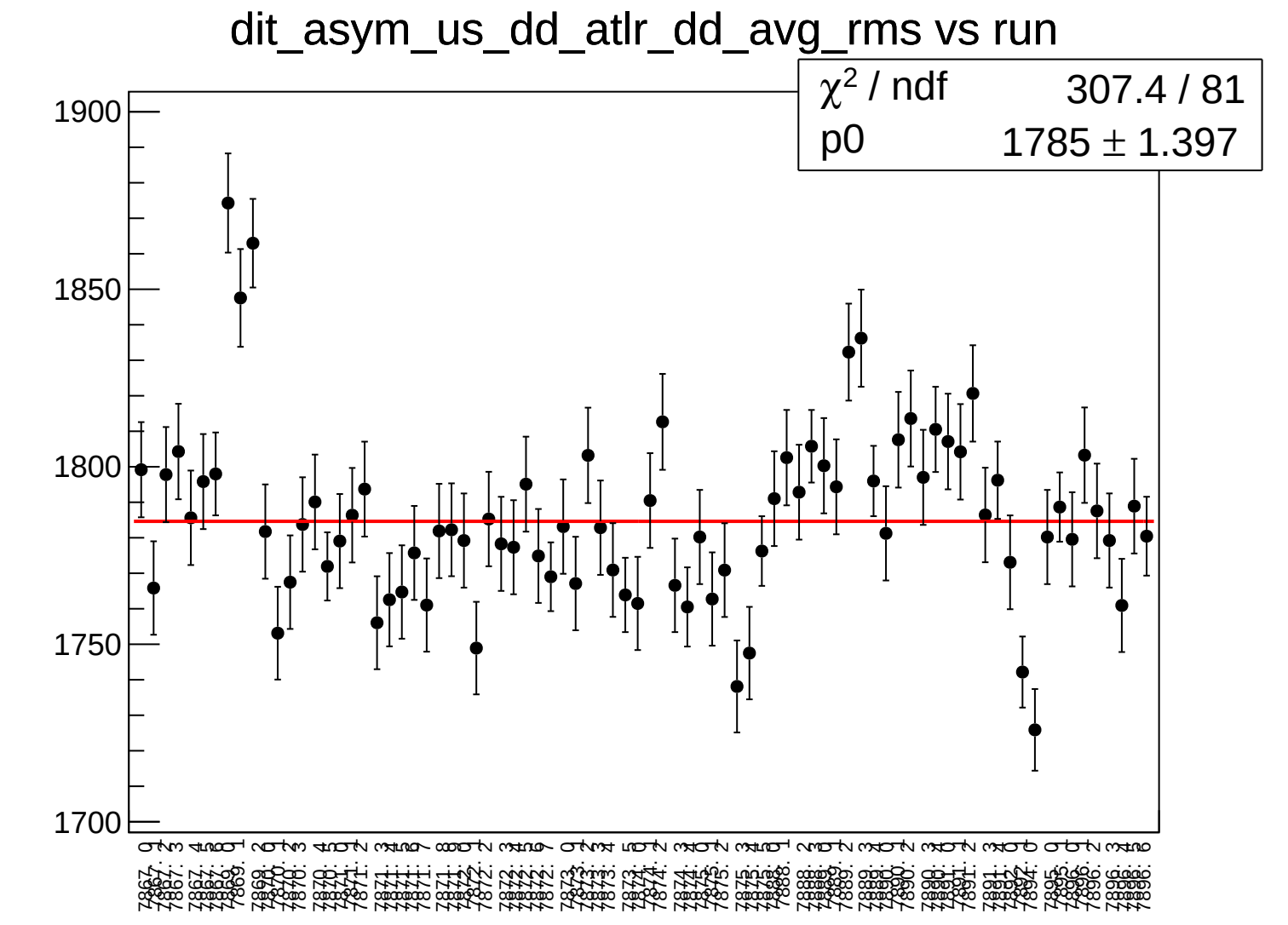

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 68.33 / 81
p0 −1448 ± 3442
100
50
0
−50
−100
pull
Entries 82
Mean −160.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

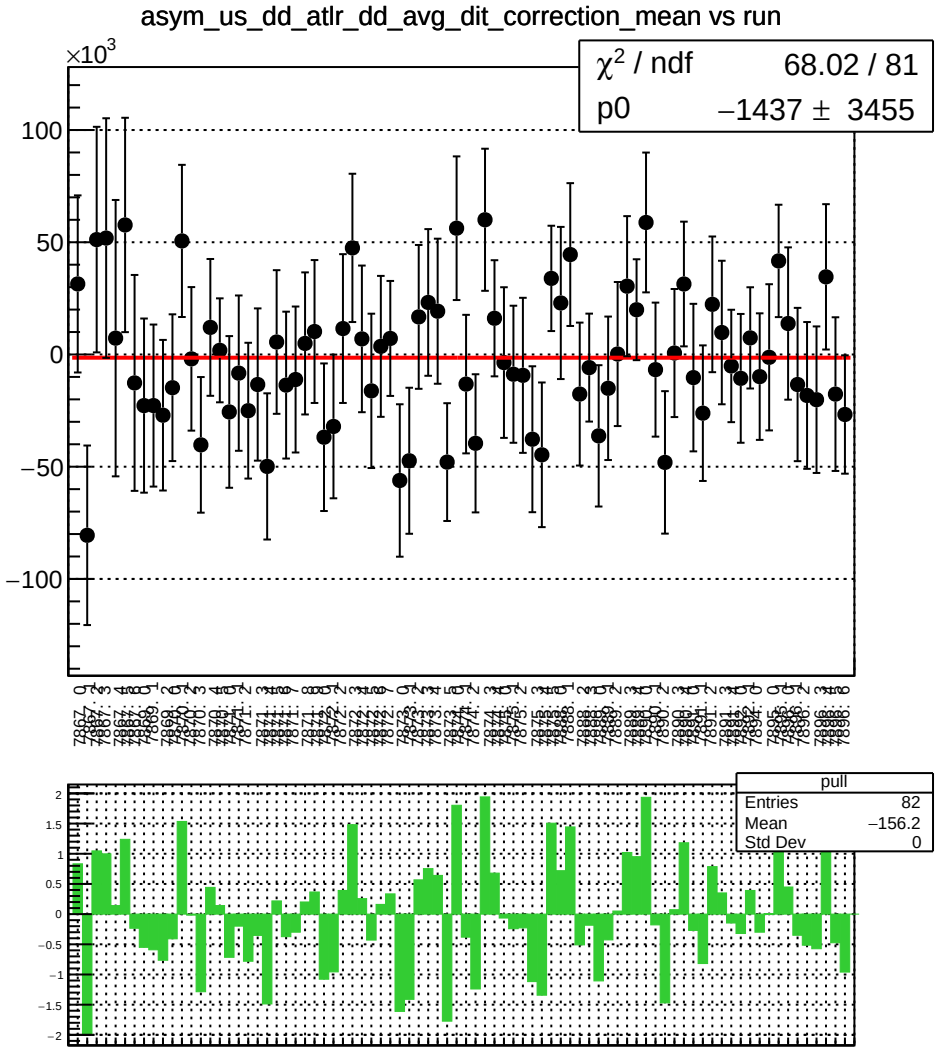

pull1D
Entries 82
Mean −0.008392
Std Dev 0.9128
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

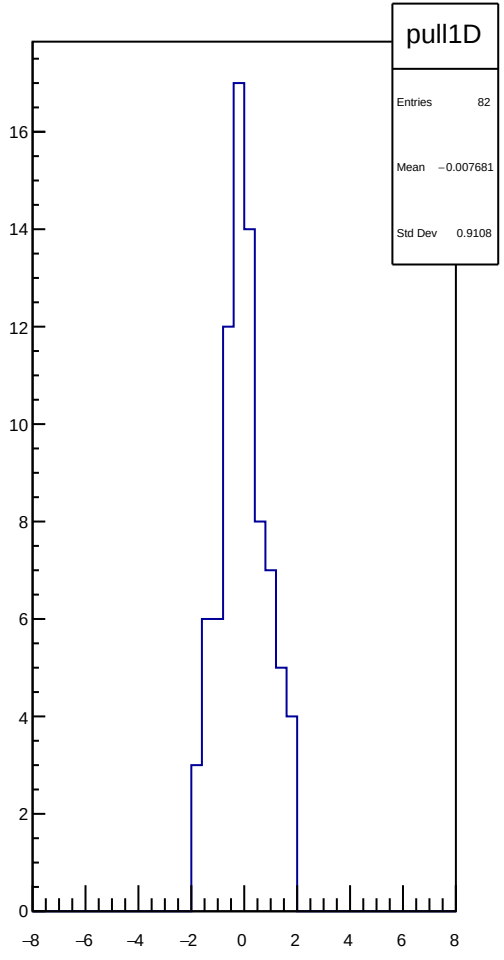

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.05e+04 / 81
p0 3089 ± 2.434
6000
5500
5000
4500
4000
3500
3000
2500

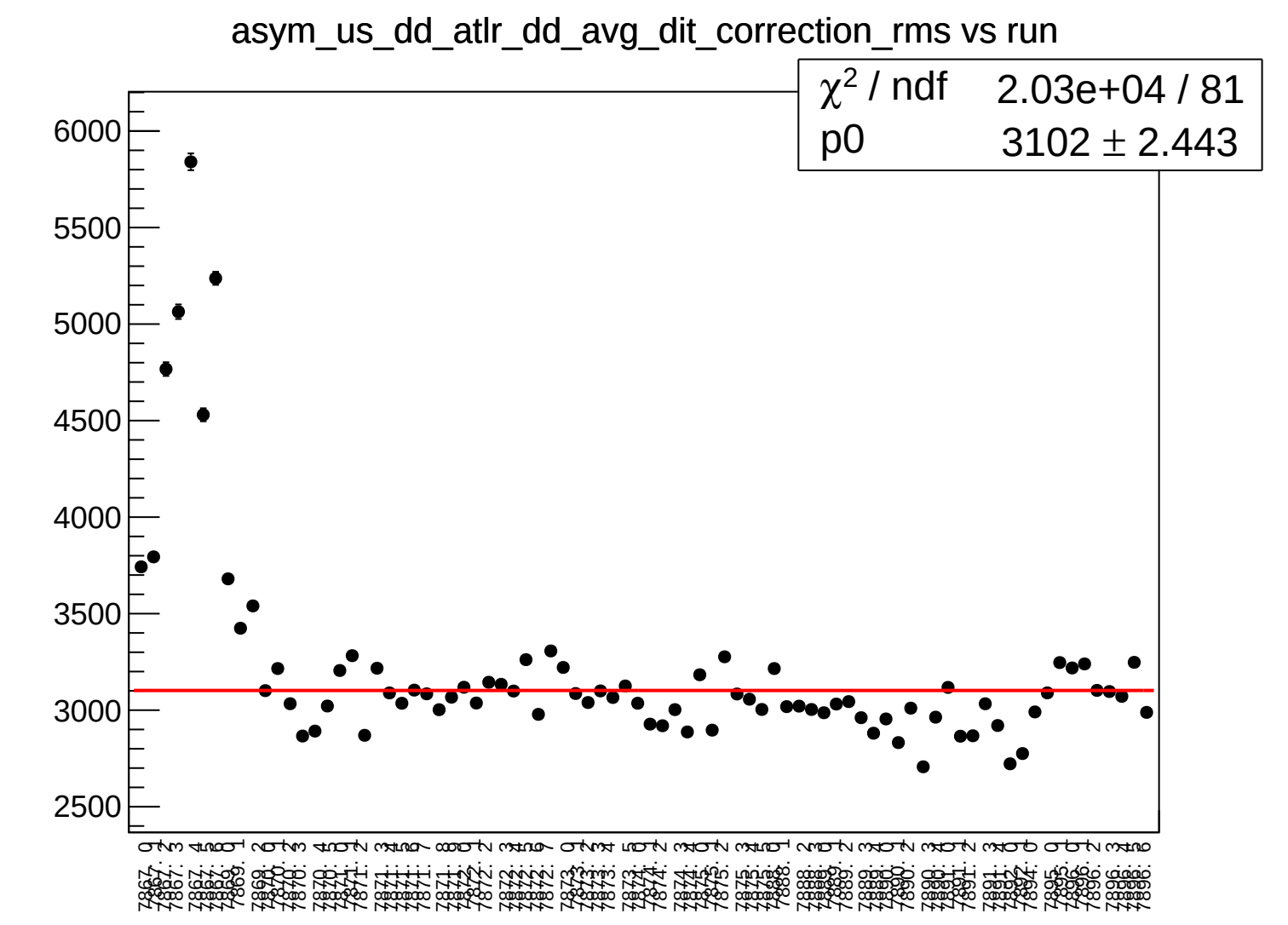

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 74.81 / 81
p0 −296.3 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 2386
Std Dev 0
2
1
0
−1
−2

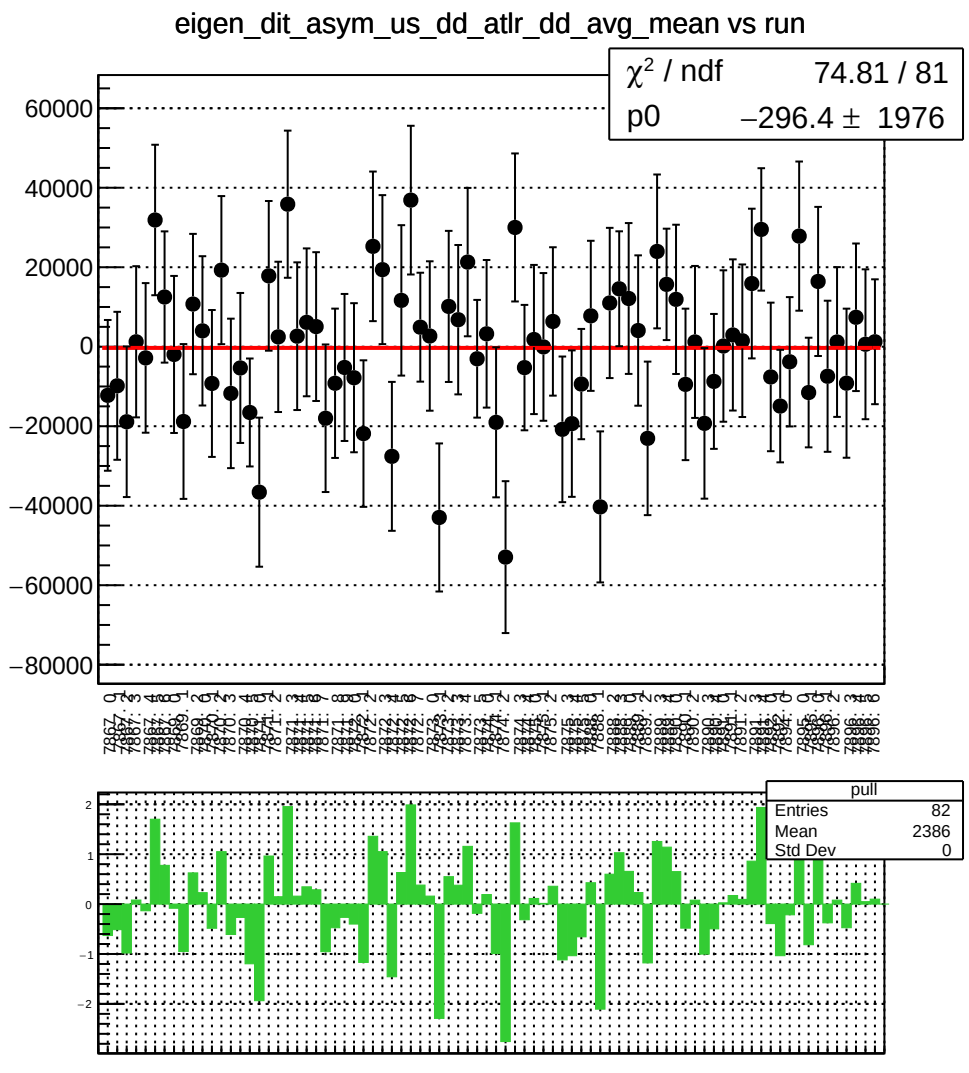

pull1D
Entries 82
Mean 0.0004819
Std Dev 0.9551
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

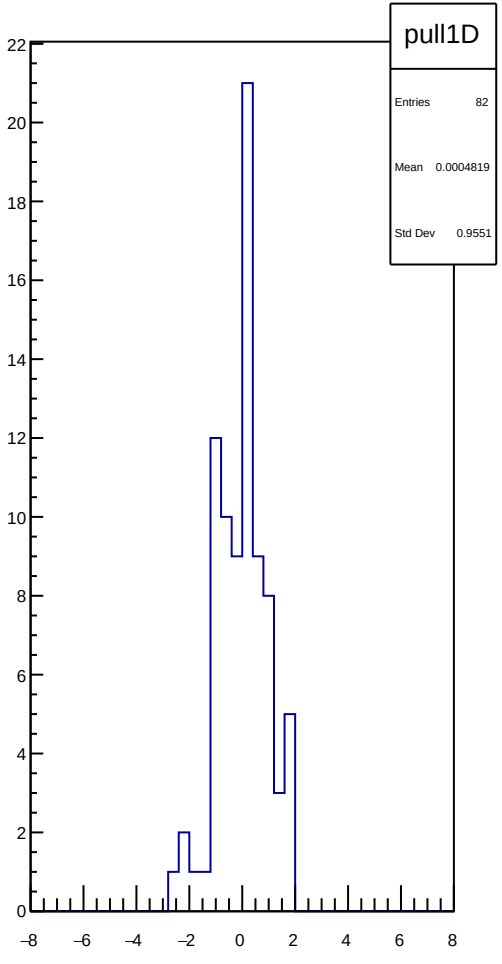

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 307.4 / 81
p0 1785 ± 1.397
1900
1850
1800
1750
1700

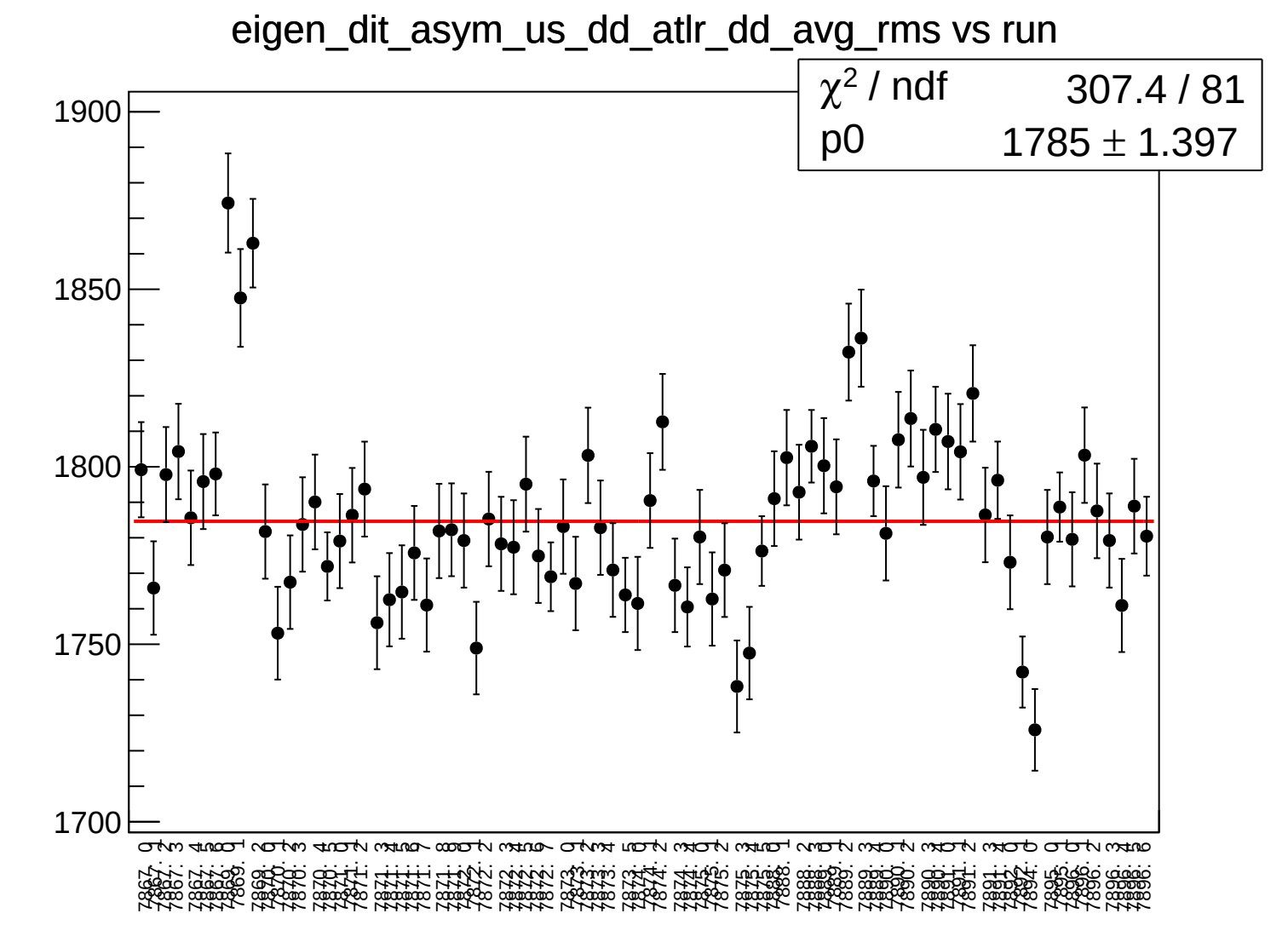

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.02 / 81
p0 −1437 ± 3455
100
50
0
−50
−100
pull
Entries 82
Mean −156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

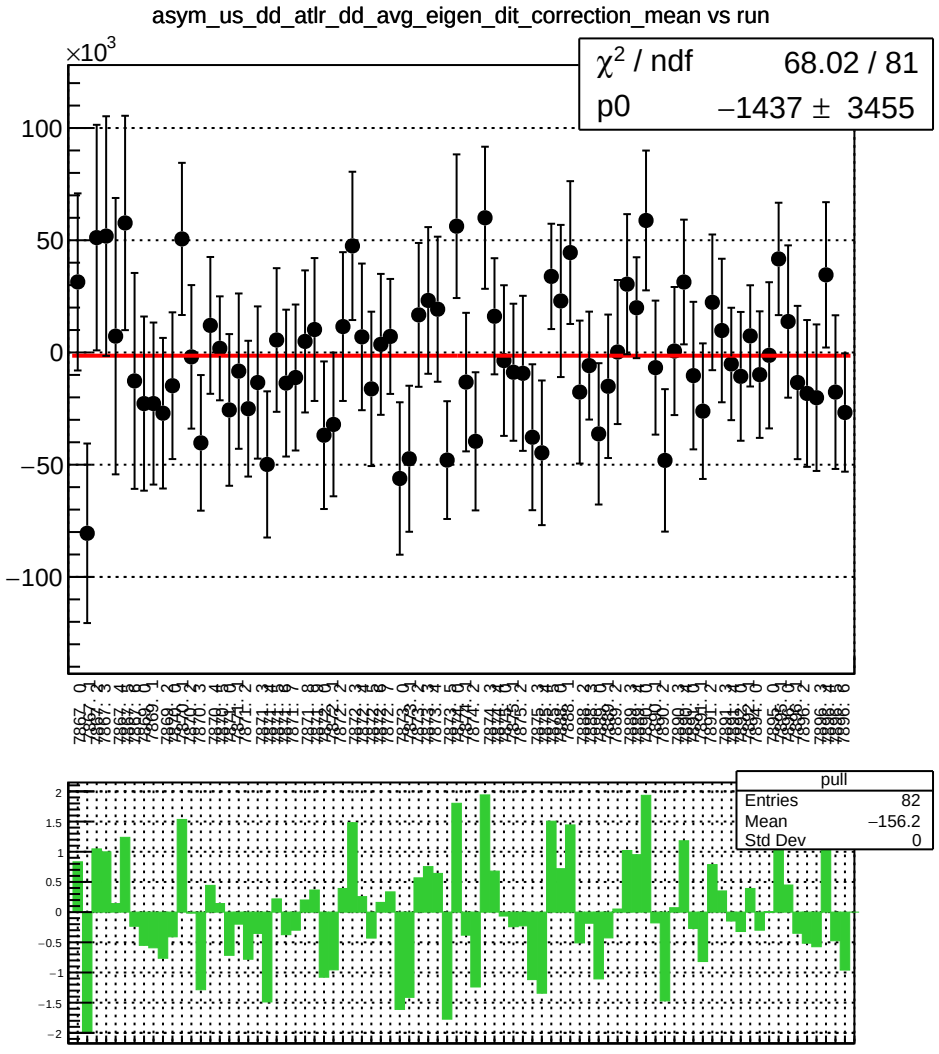

pull1D
Entries 82
Mean −0.007681
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

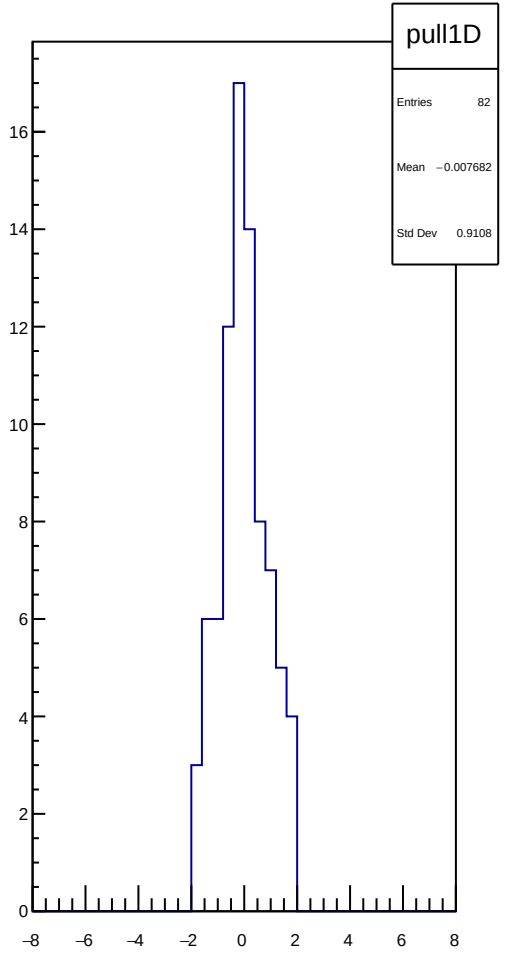

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.03e+04 / 81
p0 3102 ± 2.443
6000
5500
5000
4500
4000
3500
3000
2500

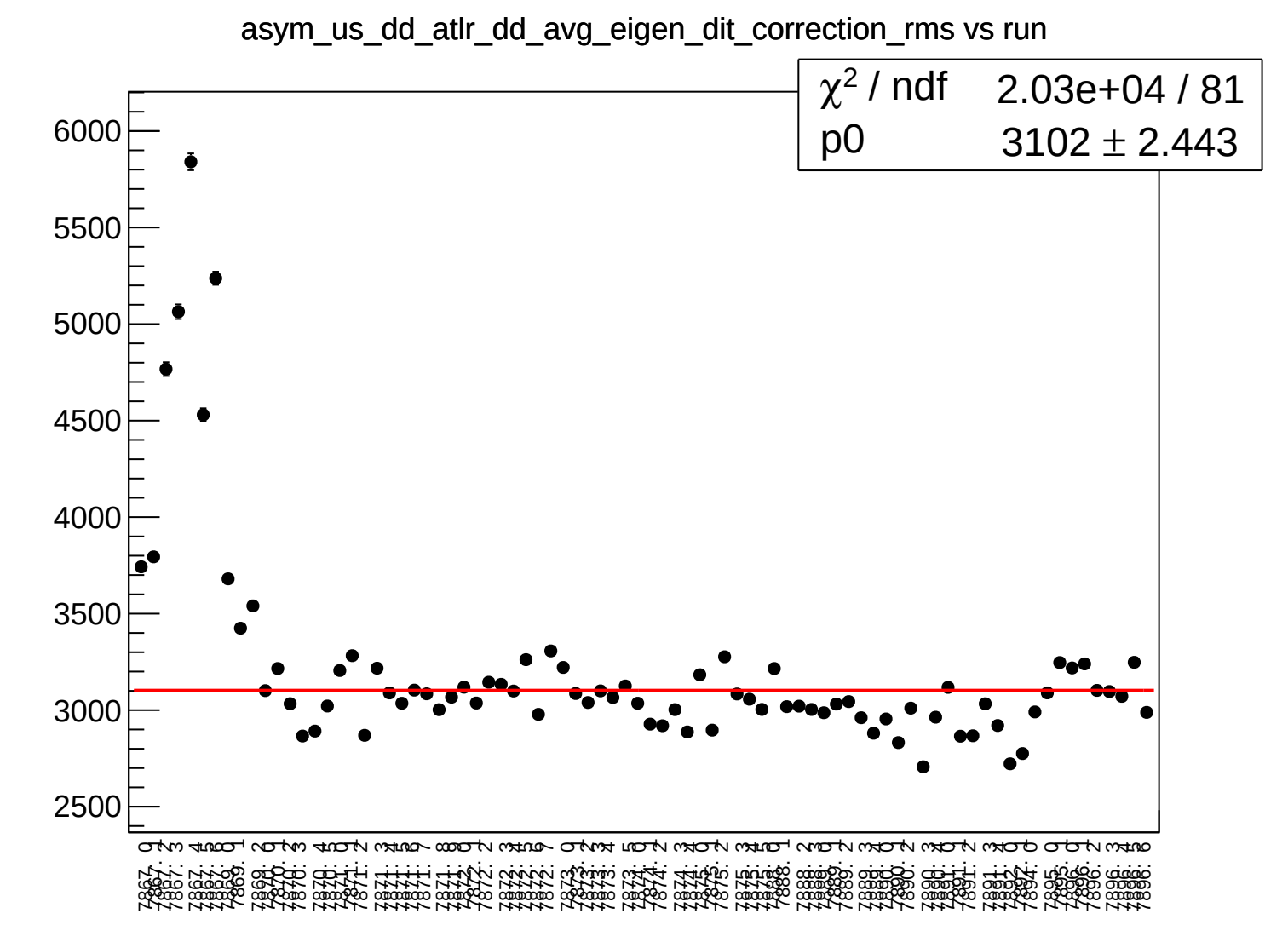

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 74.81 / 81
p0 −296.4 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 2386
Std Dev 0
2
1
0
−1
−2

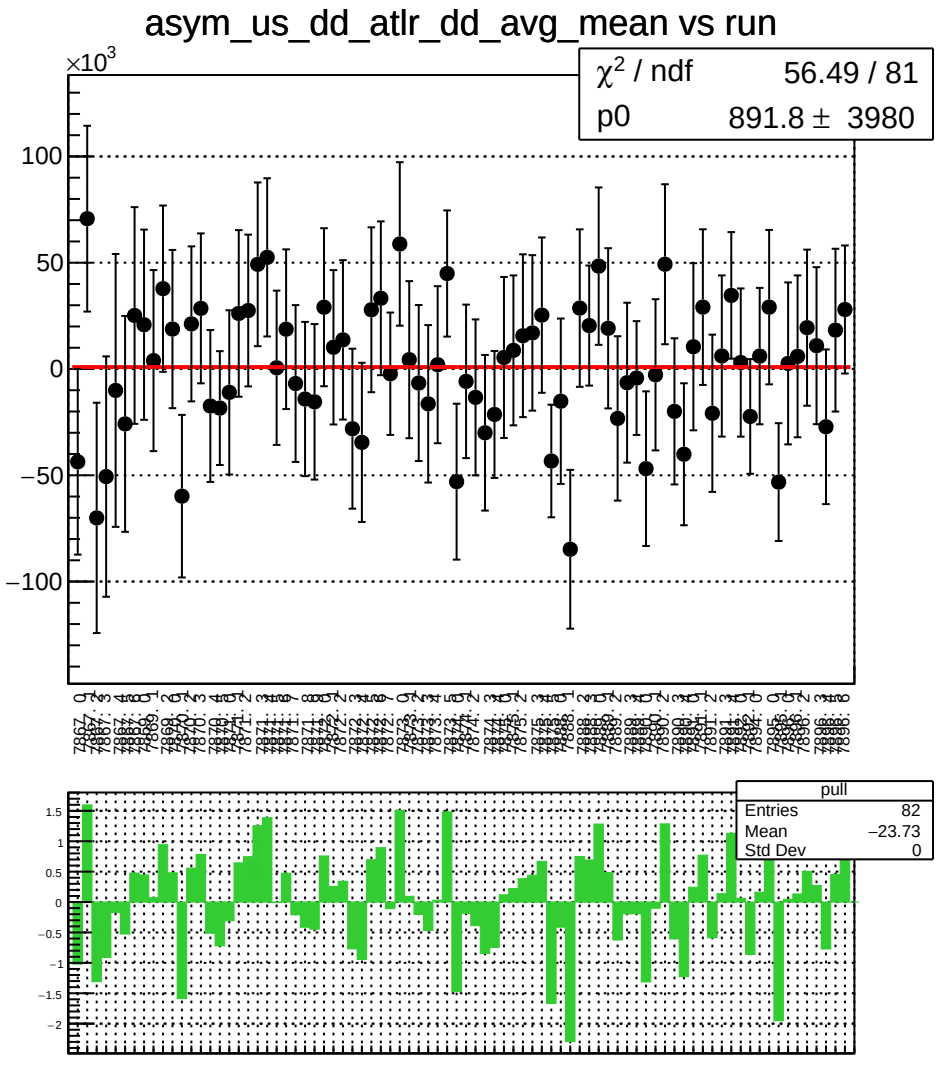

pull1D
Entries 82
Mean 0.0004819
Std Dev 0.9551
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

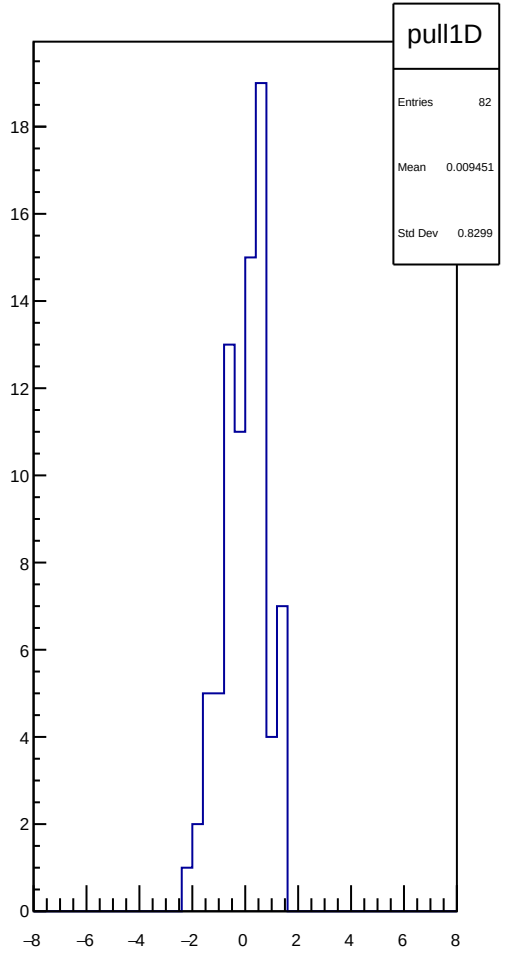

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 307.4 / 81
p0 1785 ± 1.397
1900
1850
1800
1750
1700

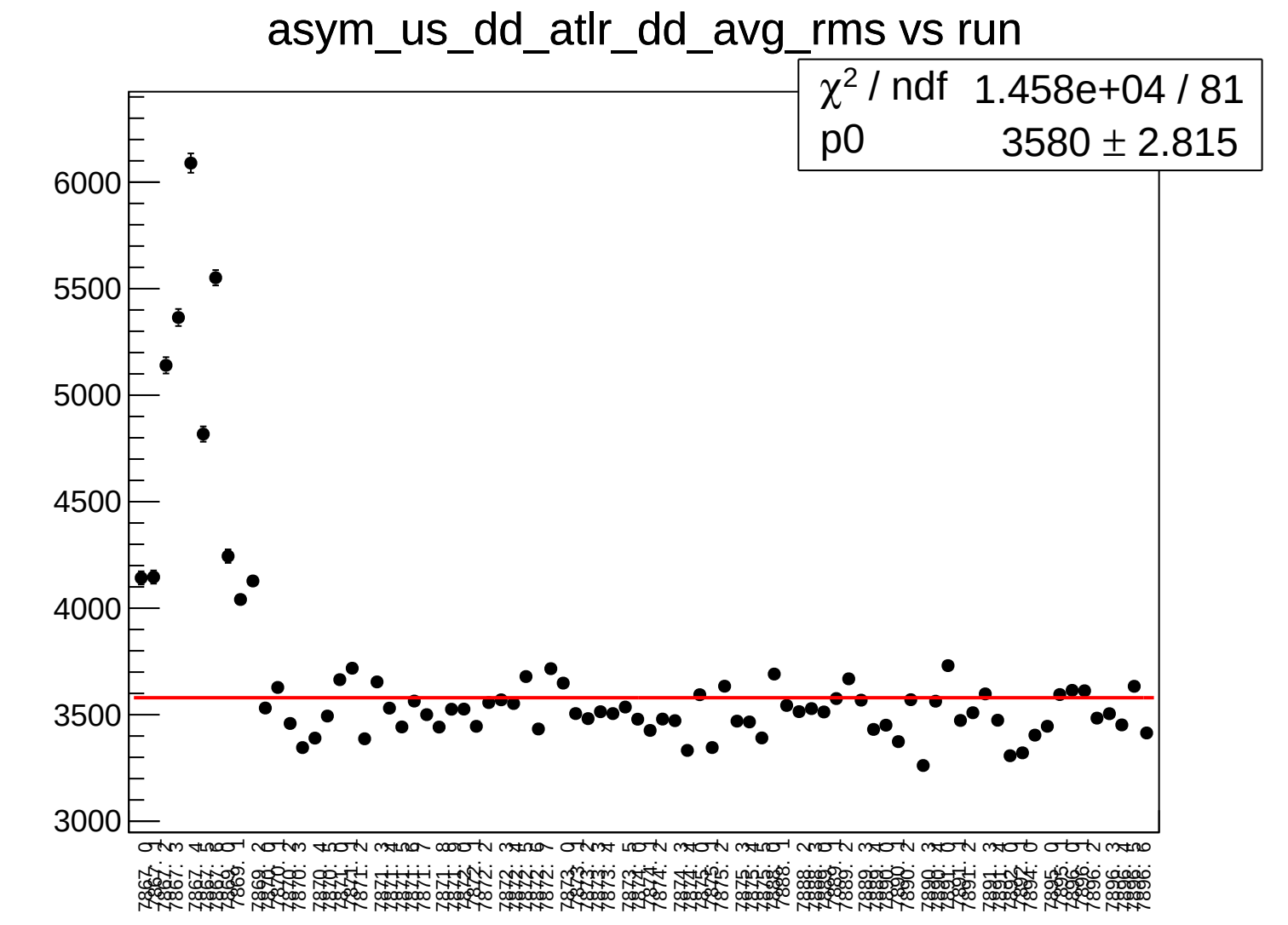

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.02 / 81
p0 −1437 ± 3455
100
50
0
−50
−100
pull
Entries 82
Mean −156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

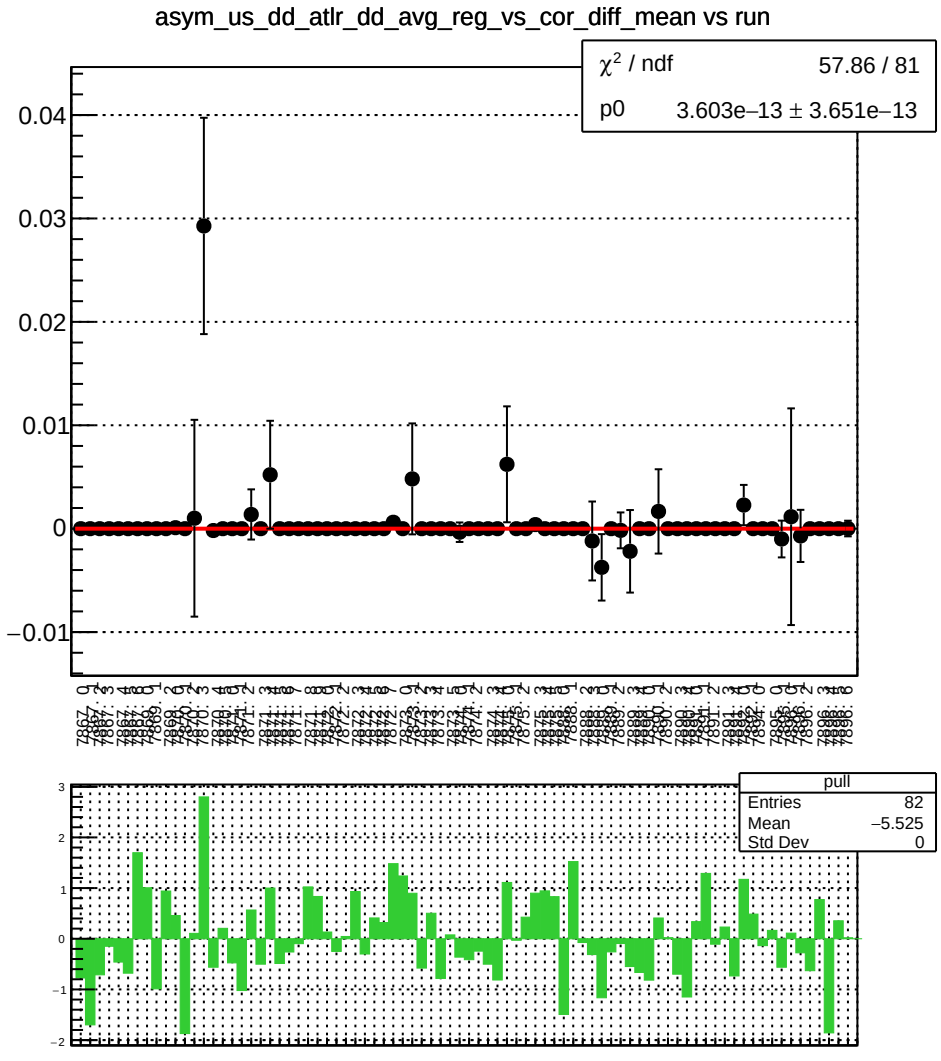

pull1D
Entries 82
Mean −0.007682
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

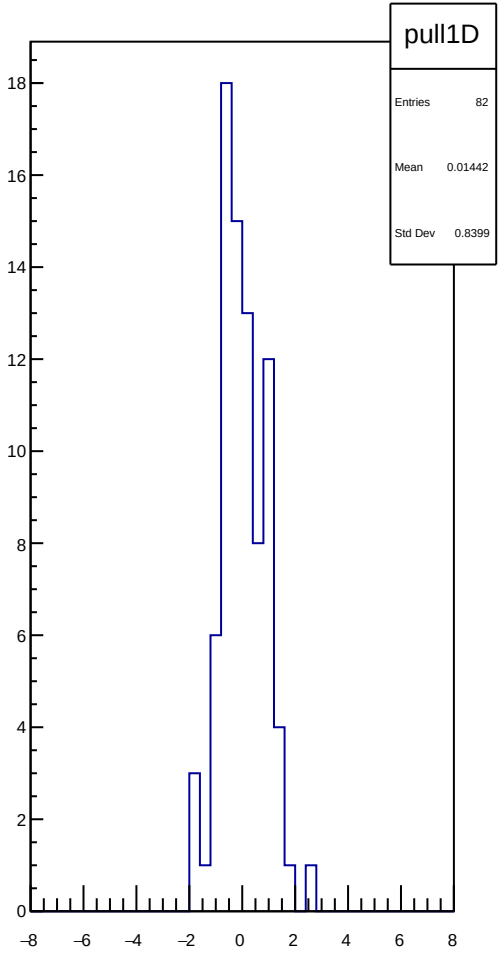

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.03e+04 / 81
p0 3102 ± 2.443
6000
5500
5000
4500
4000
3500
3000
2500

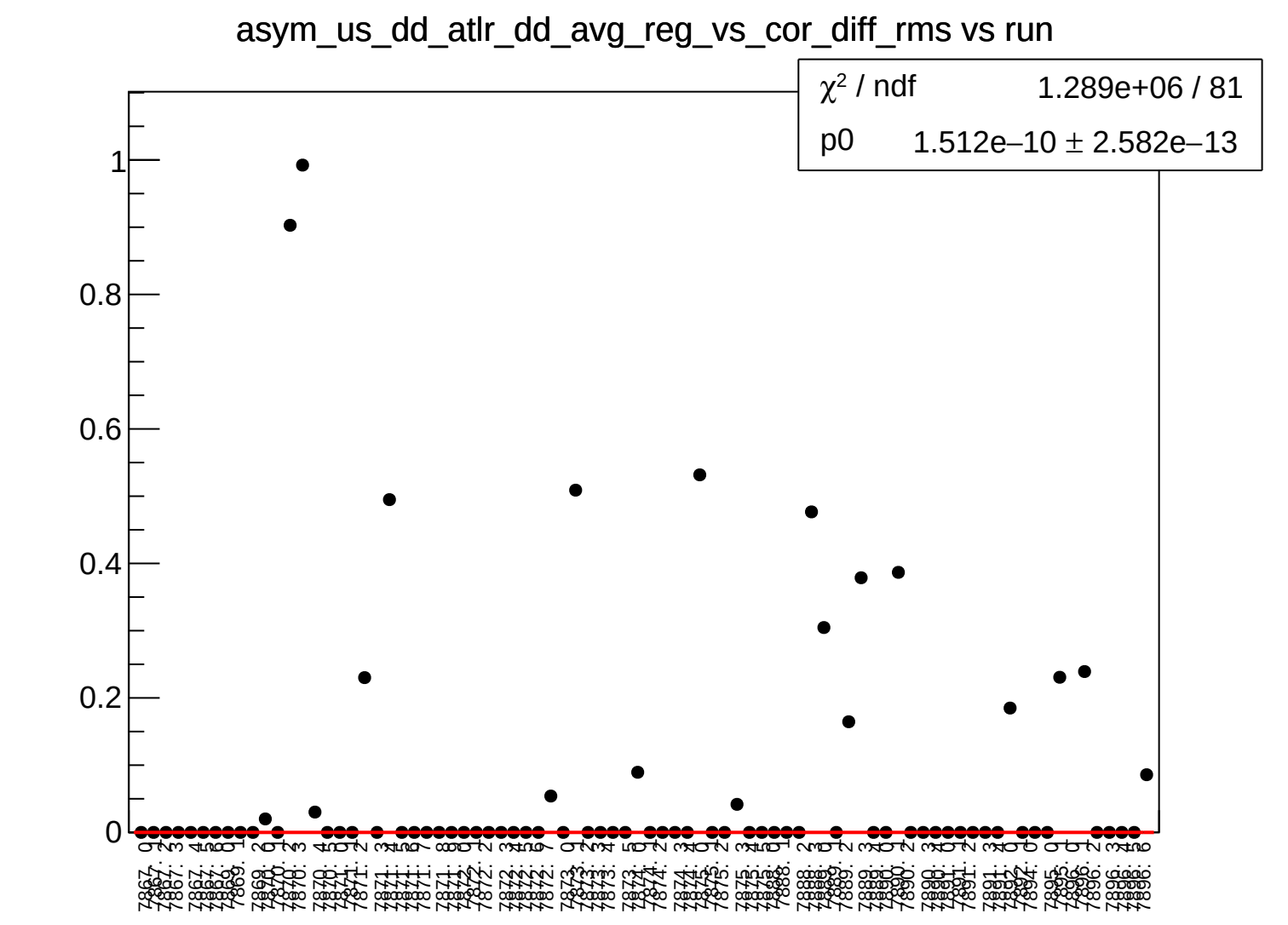

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 56.49 / 81
p0 891.8 ± 3980
×10³
100
50
0
−50
−100
pull
Entries 82
Mean −23.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

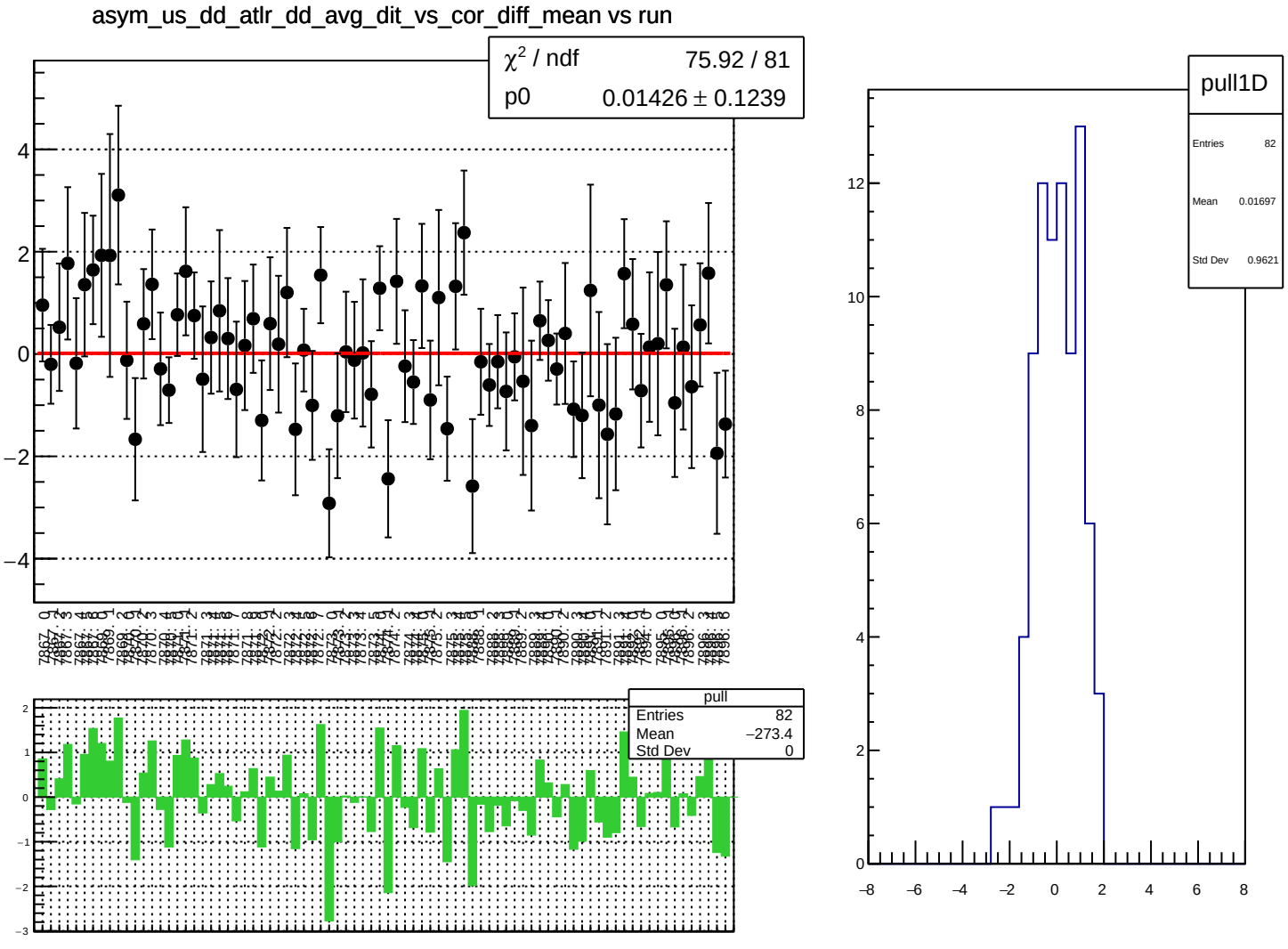

pull1D
Entries 82
Mean 0.009451
Std Dev 0.8299
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

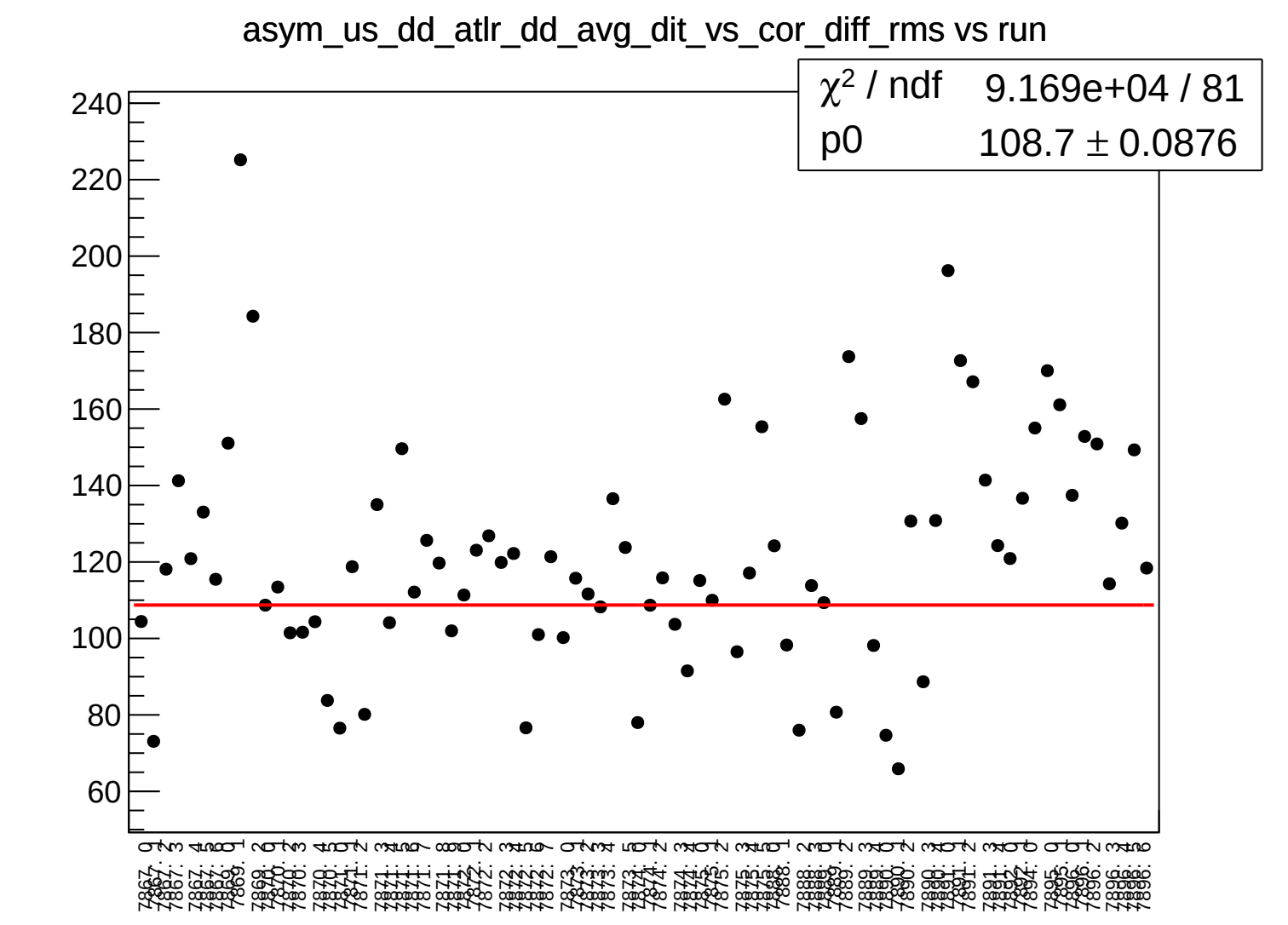

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.458e+04 / 81
p0 3580 ± 2.815
6000
5500
5000
4500
4000
3500
3000

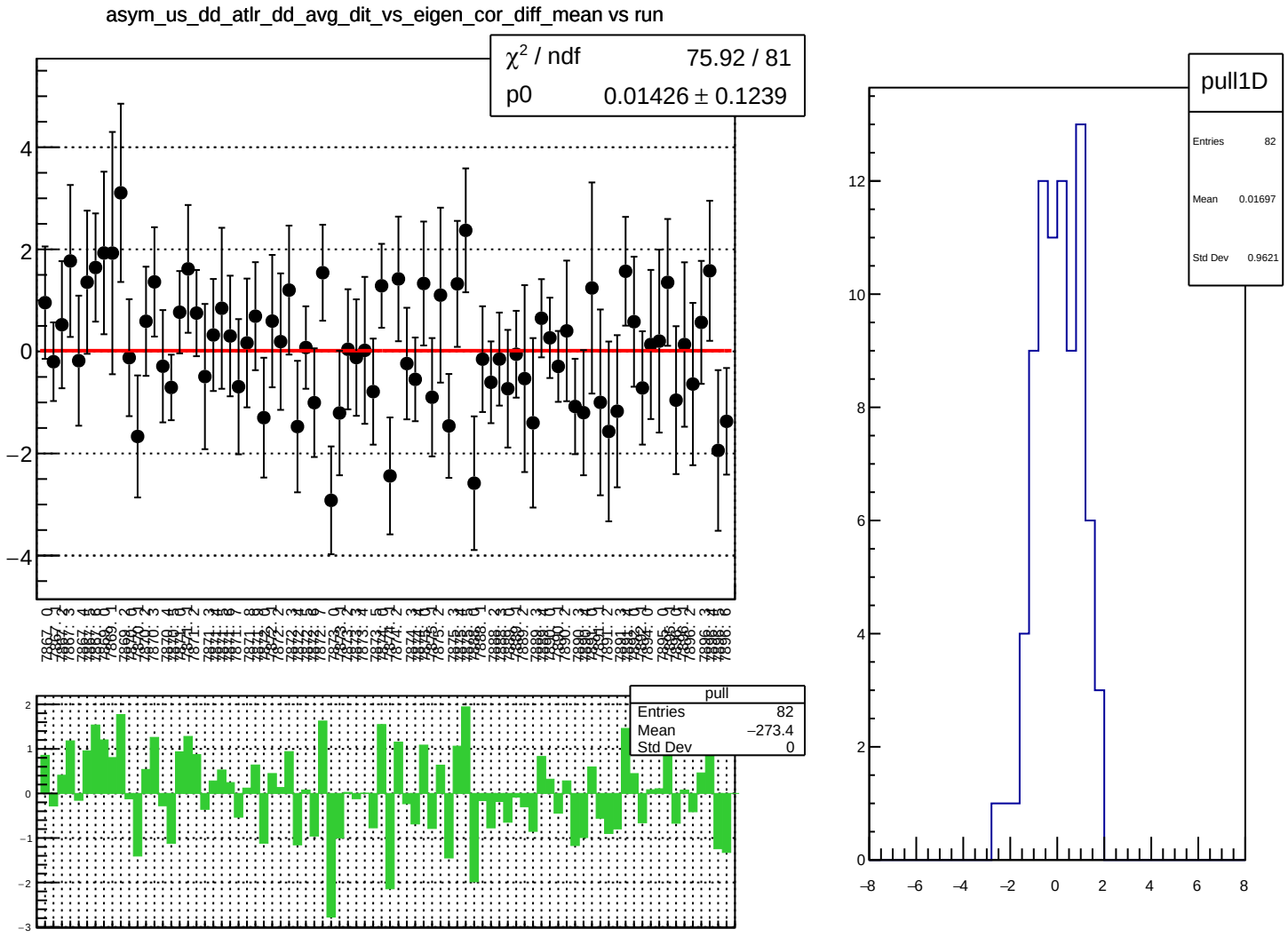

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.86 / 81
p0 3.603e−13 ± 3.651e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 82
Mean −5.525
Std Dev 0
3
2
1
0
−1
−2

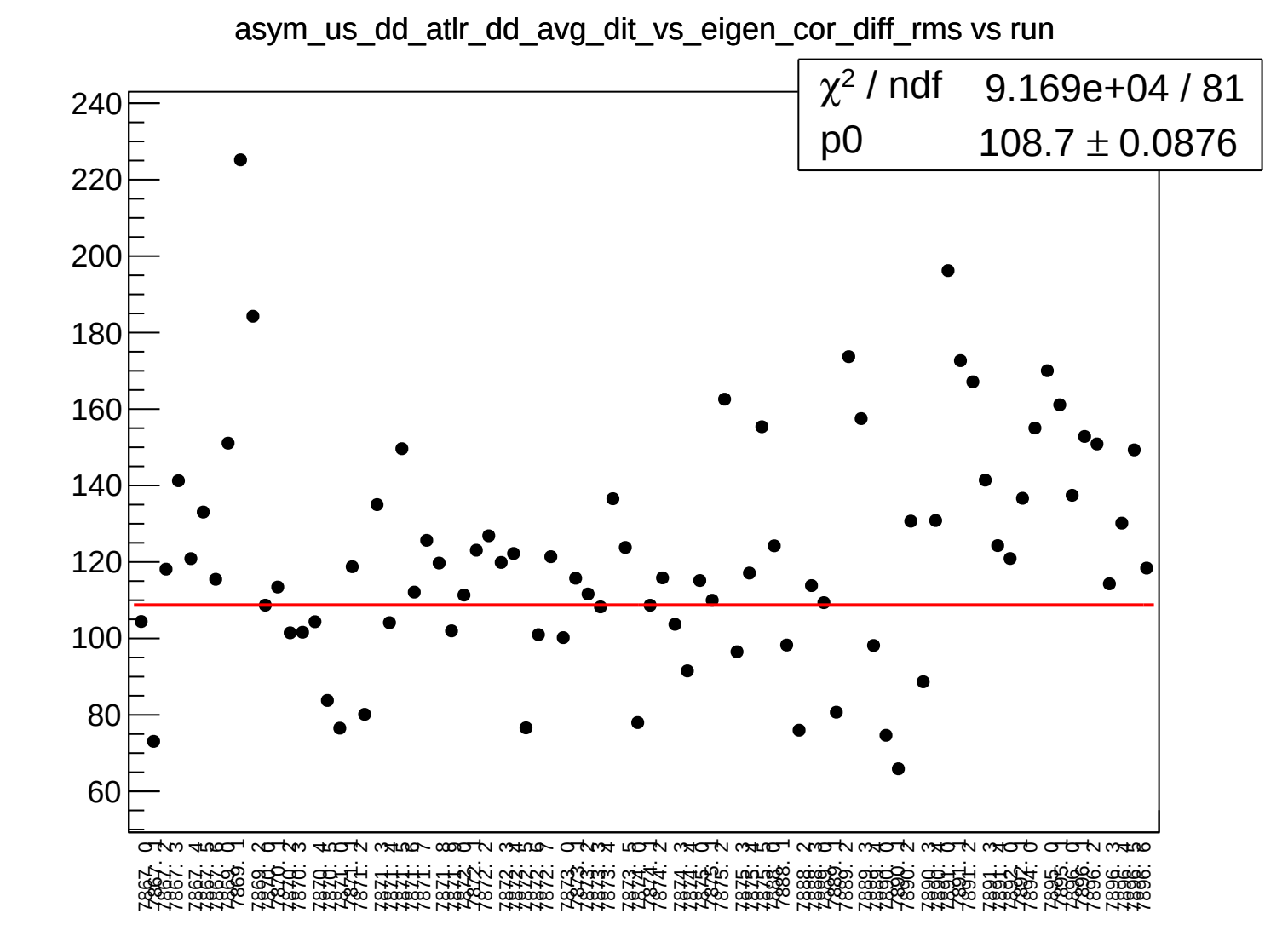

pull1D
Entries 82
Mean 0.01442
Std Dev 0.8399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

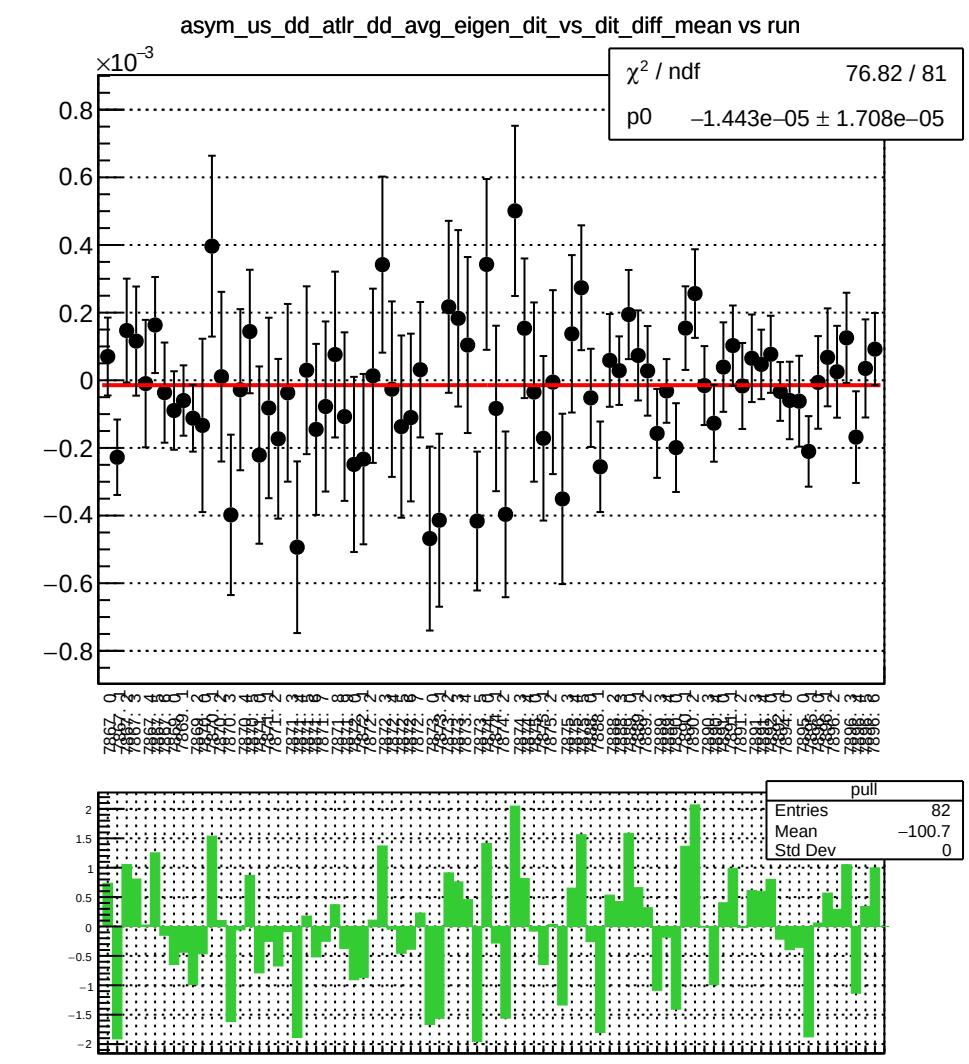

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.289e+06 / 81
p0 1.512e−10 ± 2.582e−13
1
0.8
0.6
0.4
0.2
0

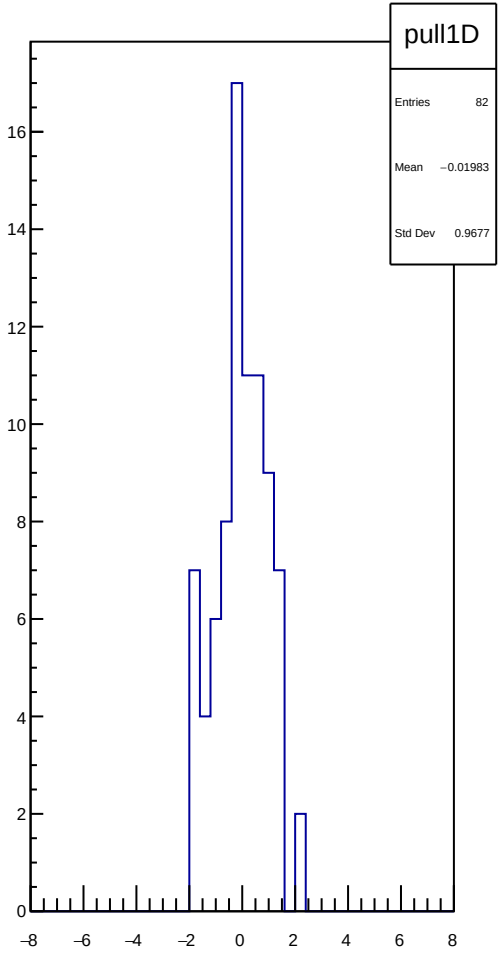

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.92 / 81
p0 0.01426 ± 0.1239
pull
Entries 82
Mean −273.4
Std Dev 0
pull1D
Entries 82
Mean 0.01697
Std Dev 0.9621

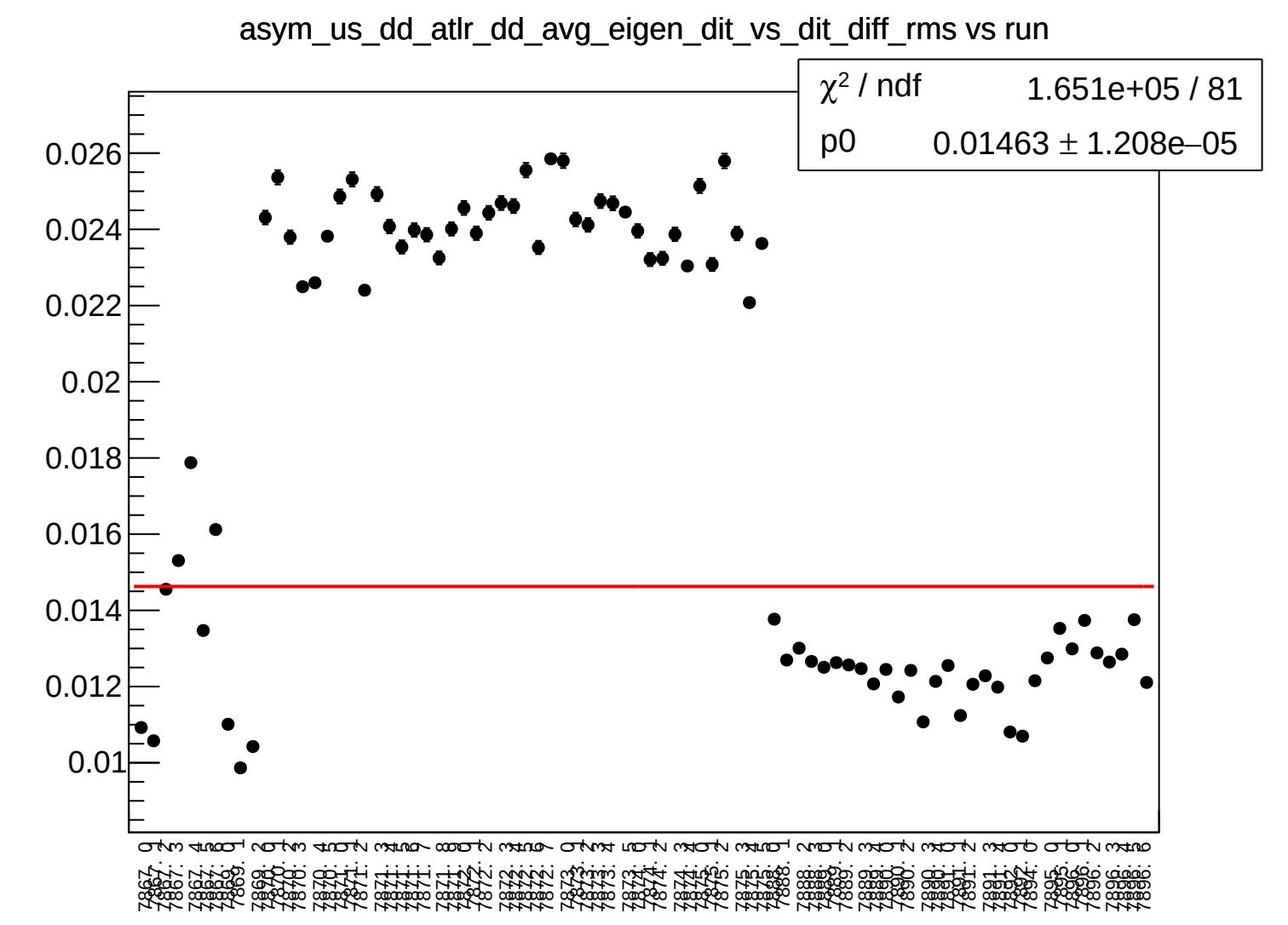

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.169e+04 / 81
p0 108.7 ± 0.0876
240
220
200
180
160
140
120
100
80
60

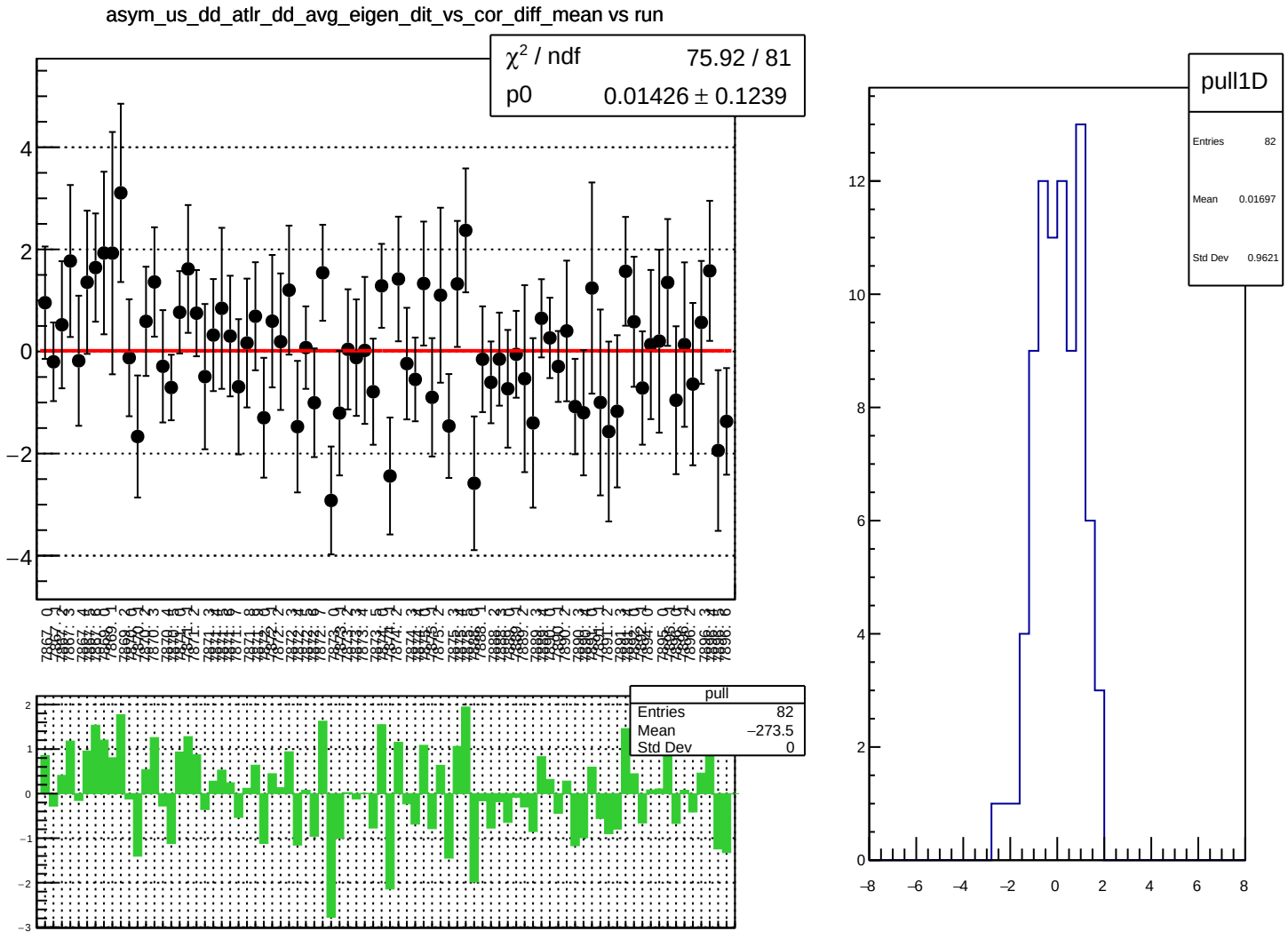

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.92 / 81
p0 0.01426 ± 0.1239
pull
Entries 82
Mean −273.4
Std Dev 0
pull1D
Entries 82
Mean 0.01697
Std Dev 0.9621

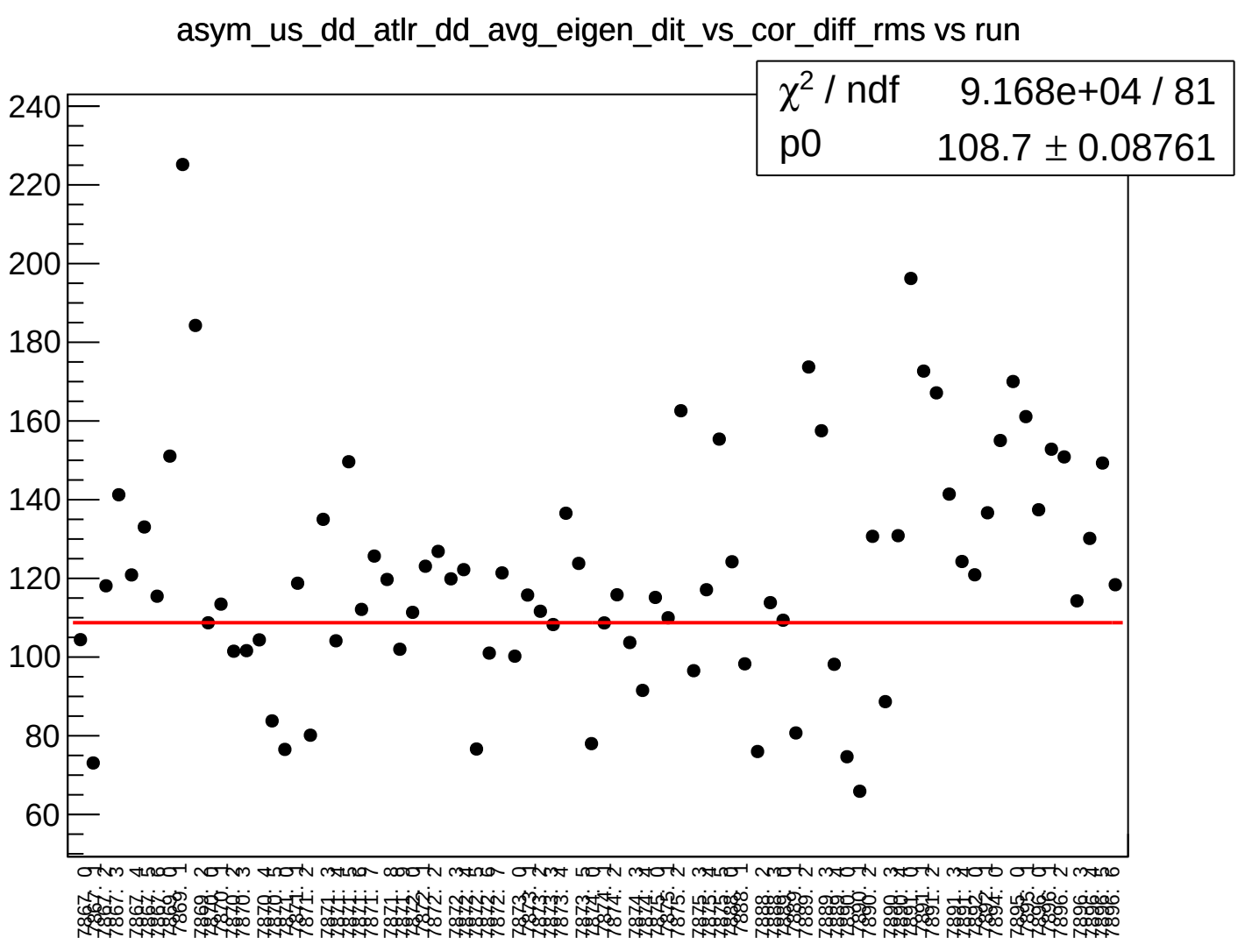

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.169e+04 / 81
p0 108.7 ± 0.0876
240
220
200
180
160
140
120
100
80
60

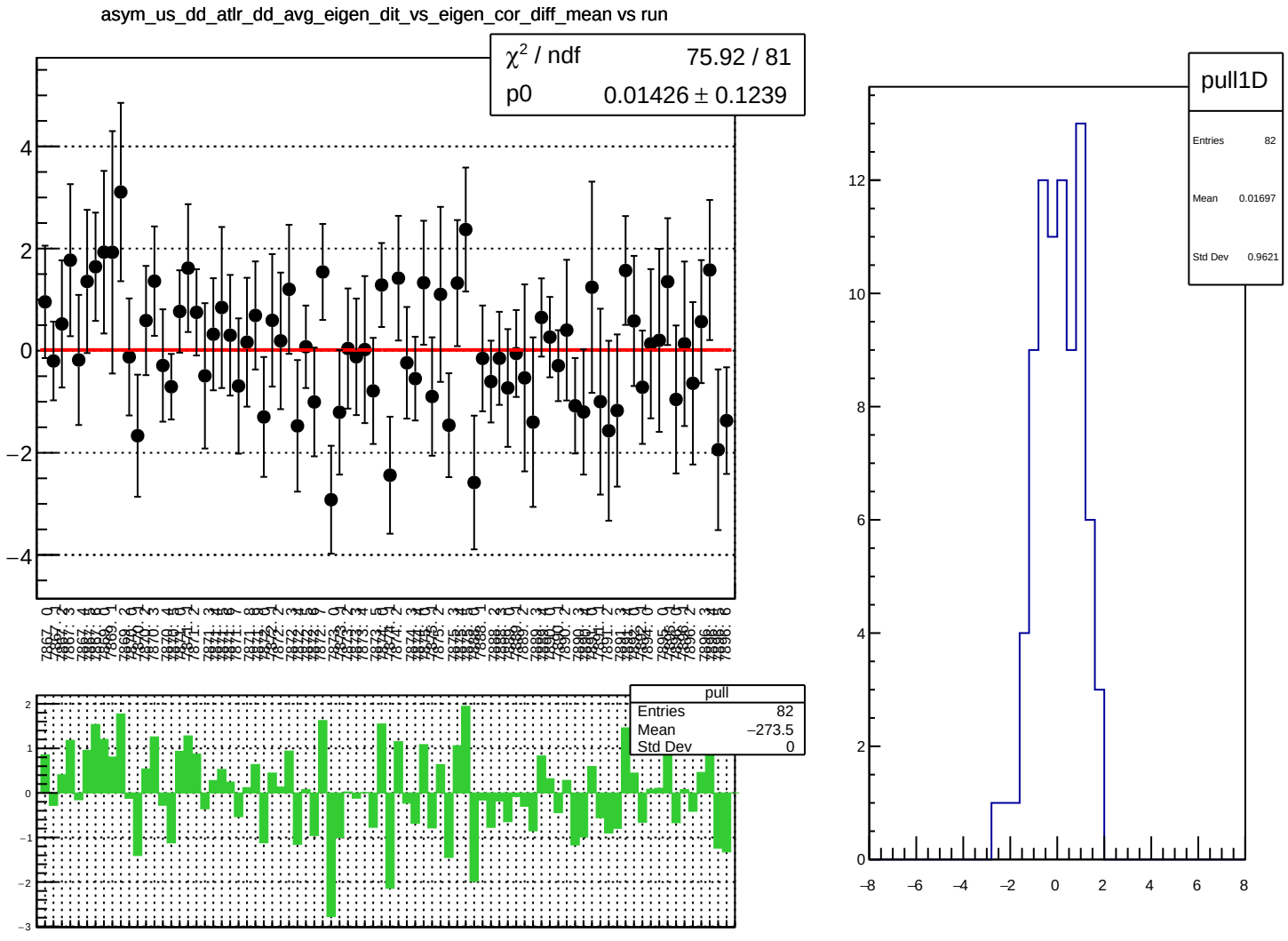

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.82 / 81
p0 −1.443e−05 ± 1.708e−05
pull
Entries 82
Mean −100.7
Std Dev 0

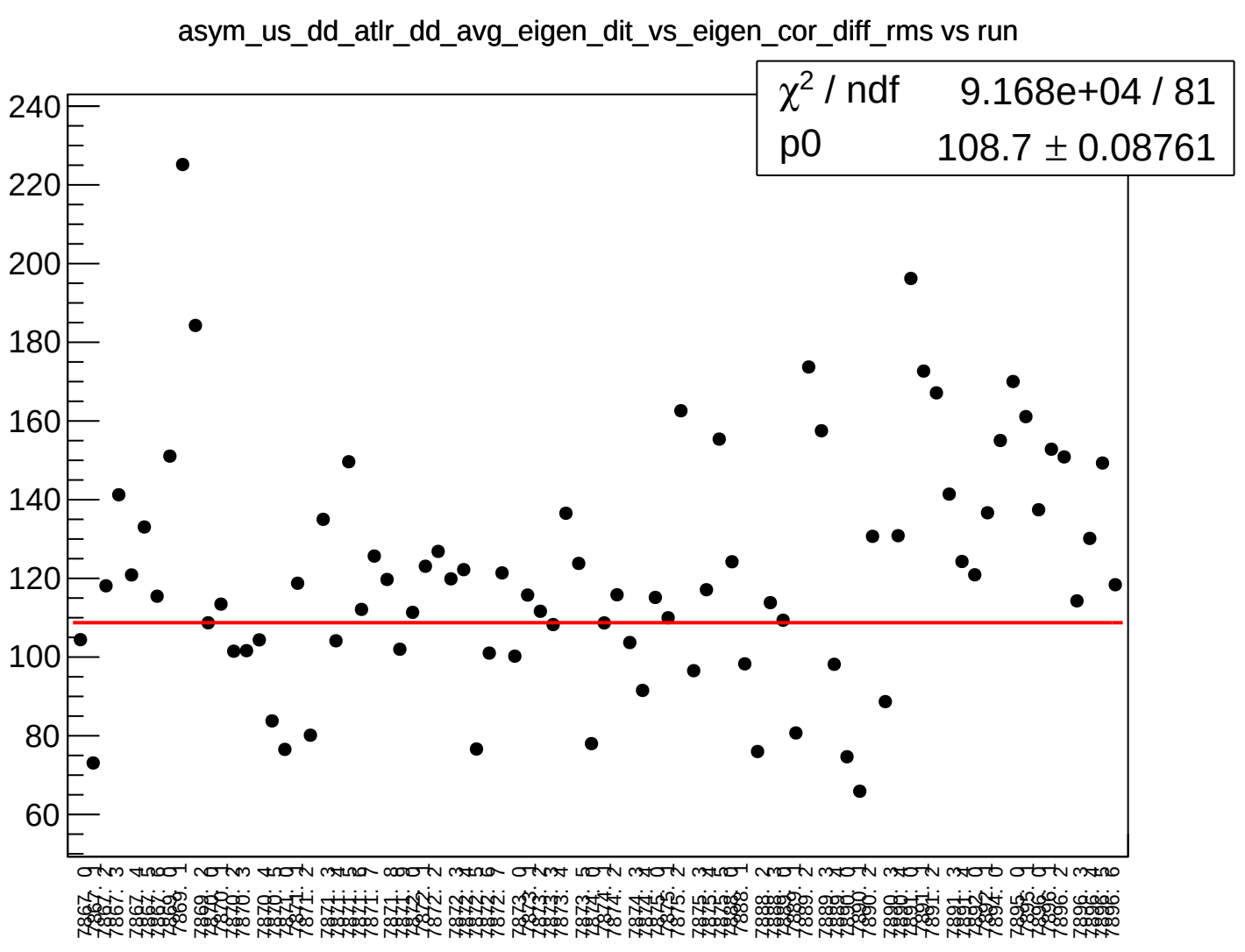

pull1D
Entries 82
Mean −0.01983
Std Dev 0.9677

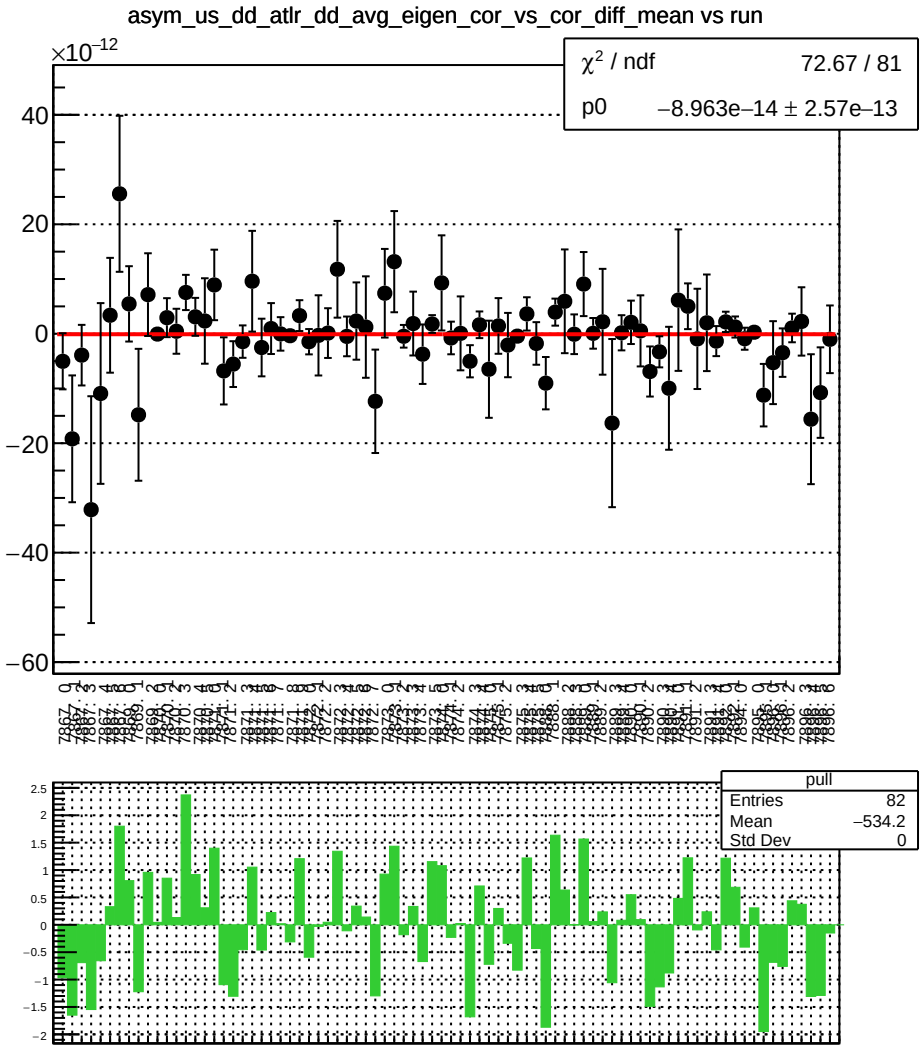

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.651e+05 / 81
p0 0.01463 ± 1.208e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

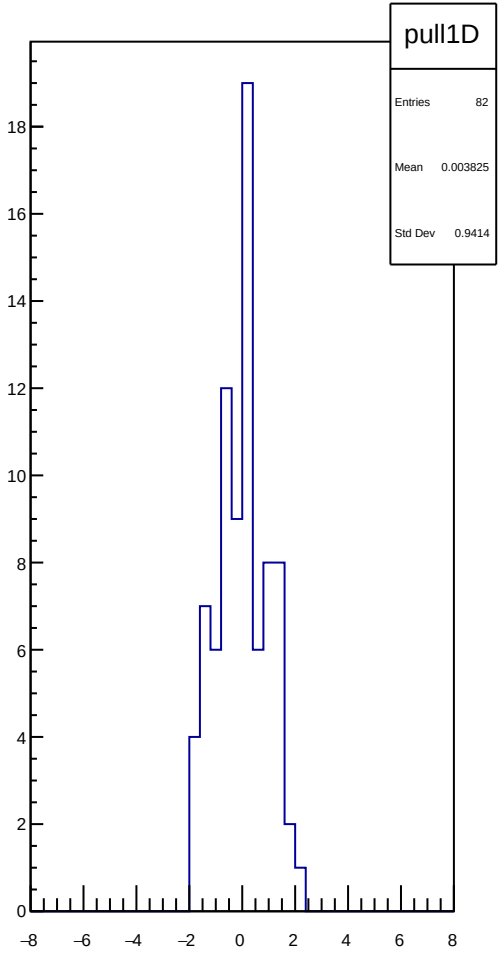

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.92 / 81
p0 0.01426 ± 0.1239
pull
Entries 82
Mean −273.5
Std Dev 0
pull1D
Entries 82
Mean 0.01697
Std Dev 0.9621

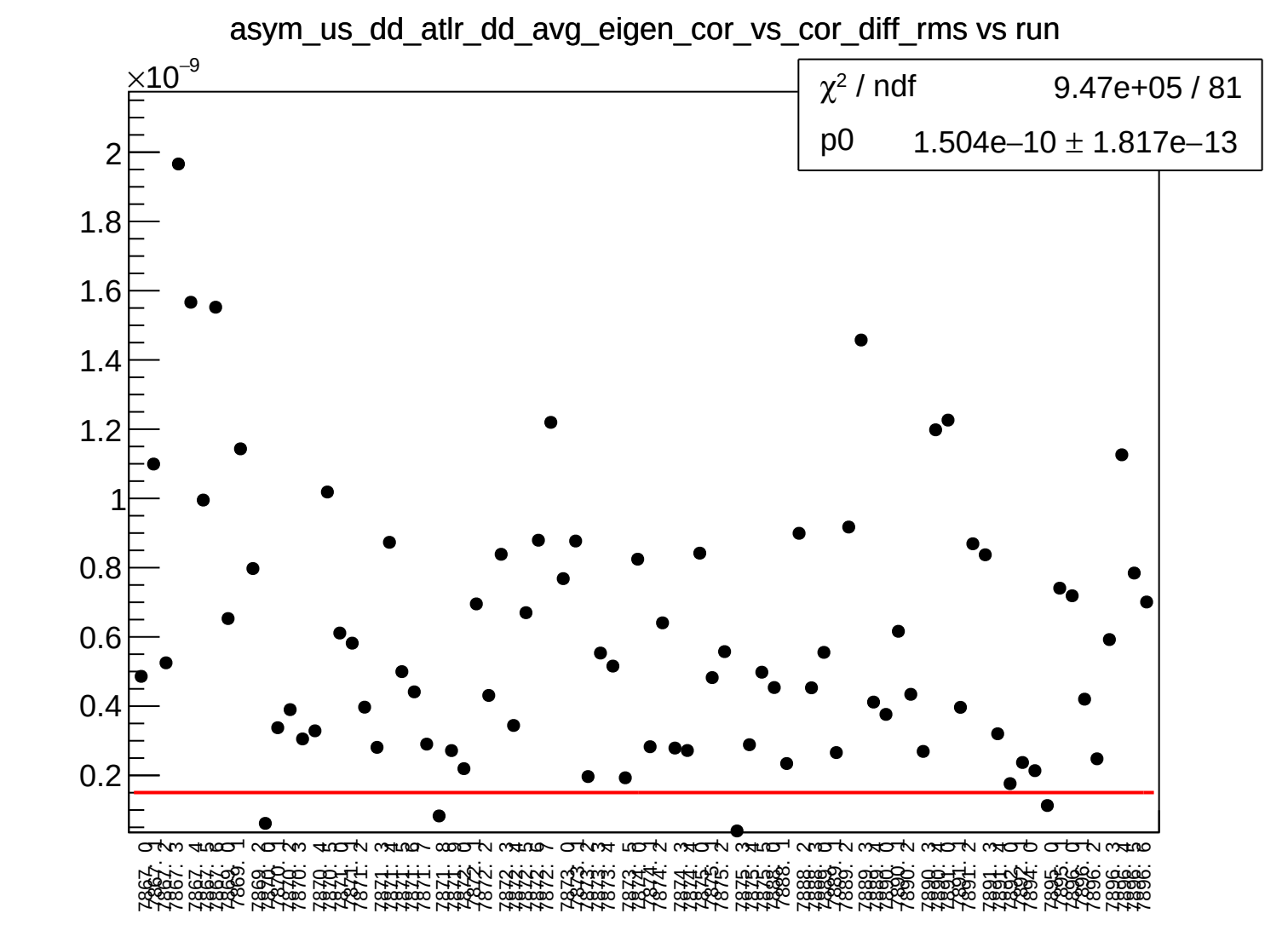

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.168e+04 / 81
p0 108.7 ± 0.08761
240
220
200
180
160
140
120
100
80
60

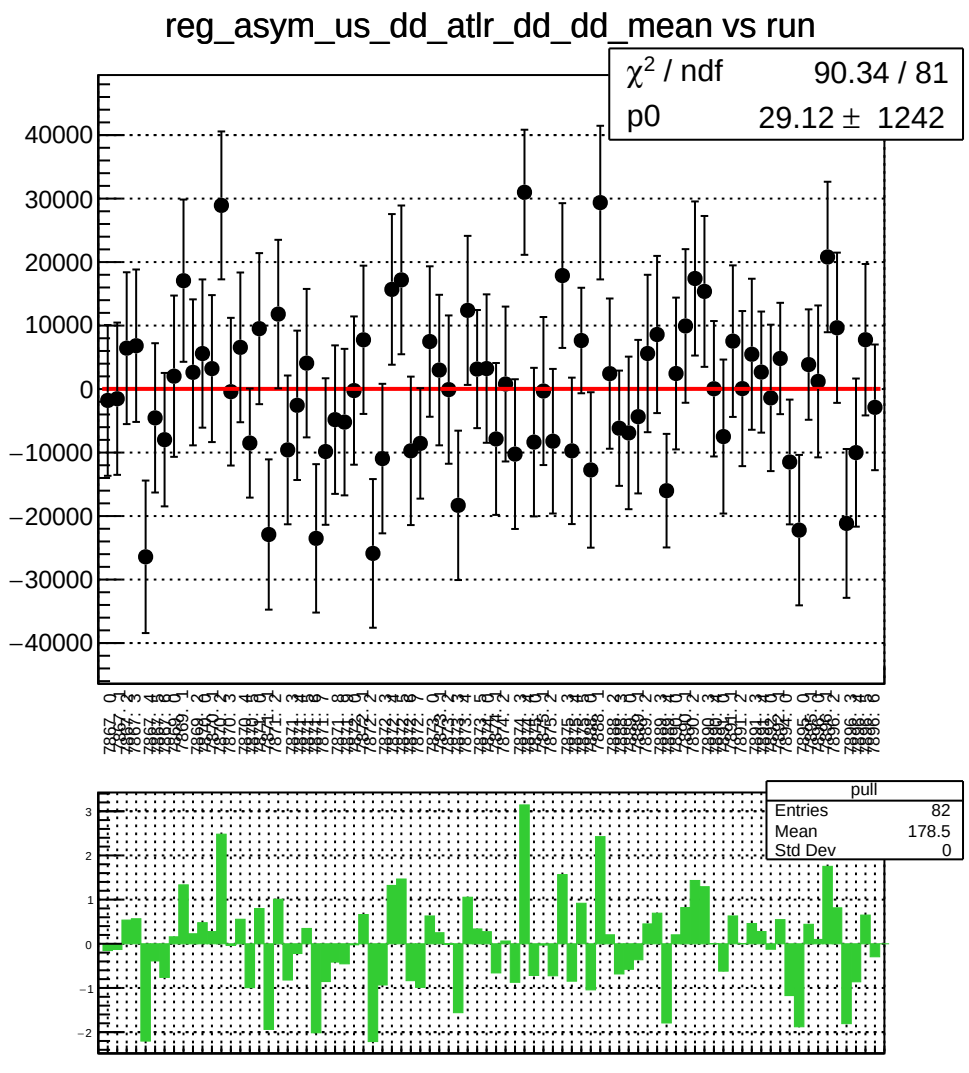

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.92 / 81
p0 0.01426 ± 0.1239
pull
Entries 82
Mean −273.5
Std Dev 0
pull1D
Entries 82
Mean 0.01697
Std Dev 0.9621

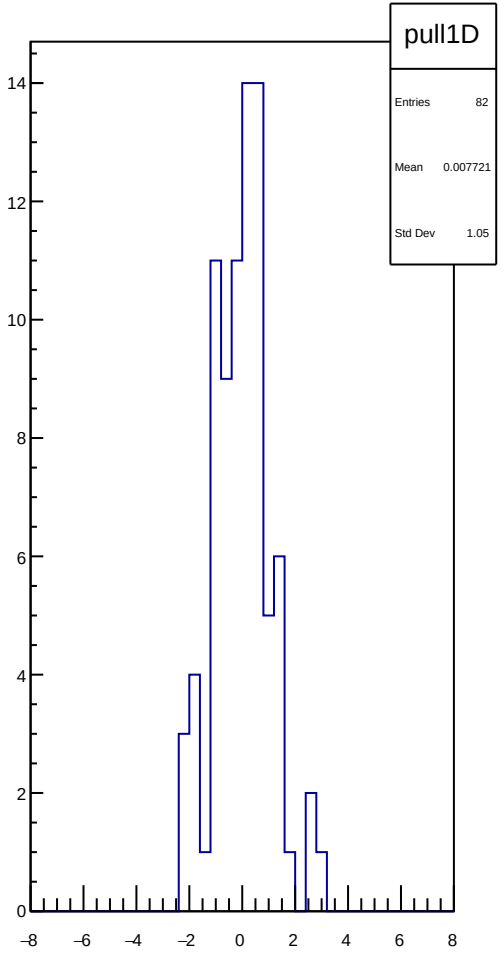

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.168e+04 / 81
p0 108.7 ± 0.08761
240
220
200
180
160
140
120
100
80
60

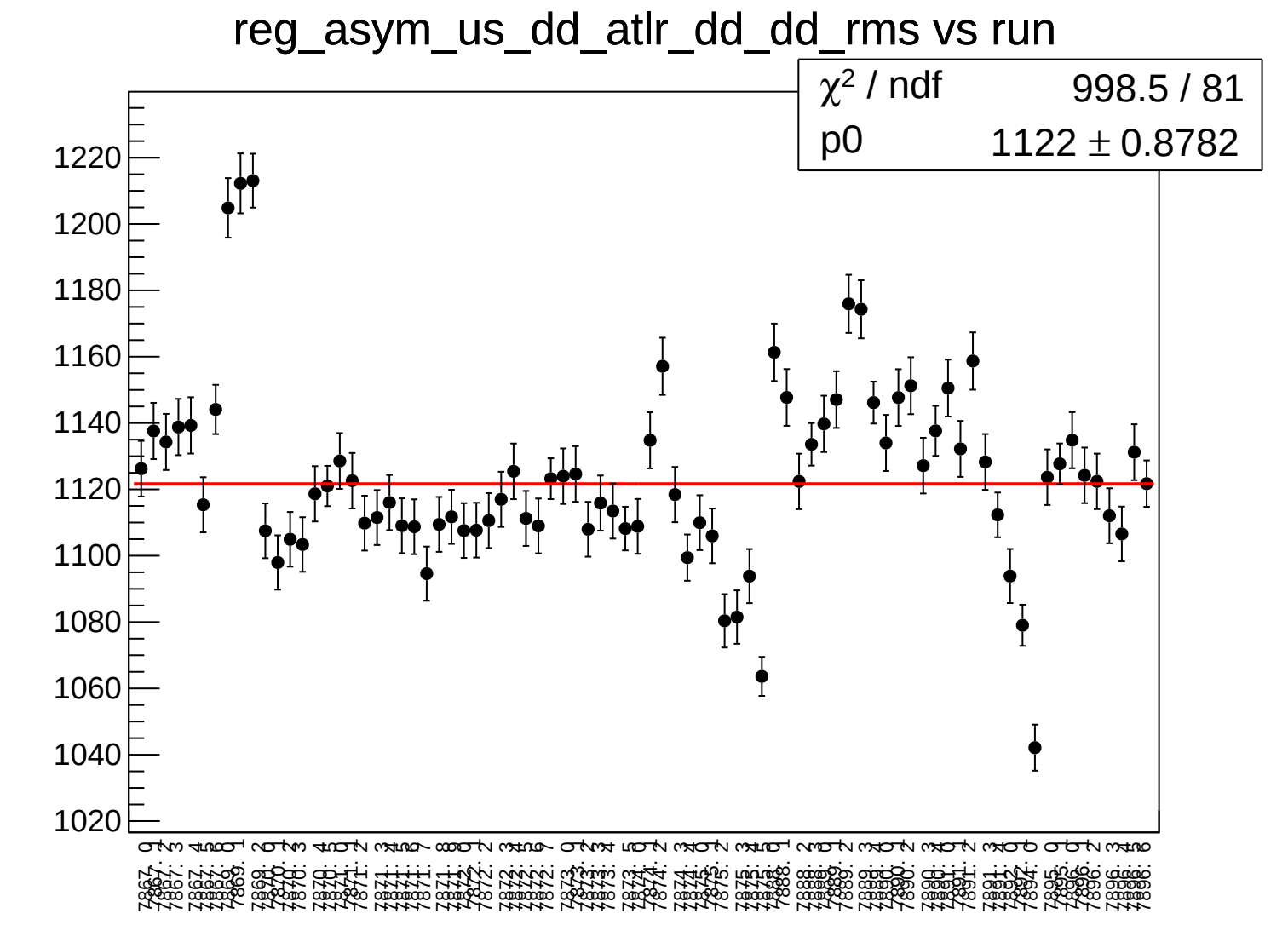

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.67 / 81
p0 −8.963e−14 ± 2.57e−13
pull
Entries 82
Mean −534.2
Std Dev 0

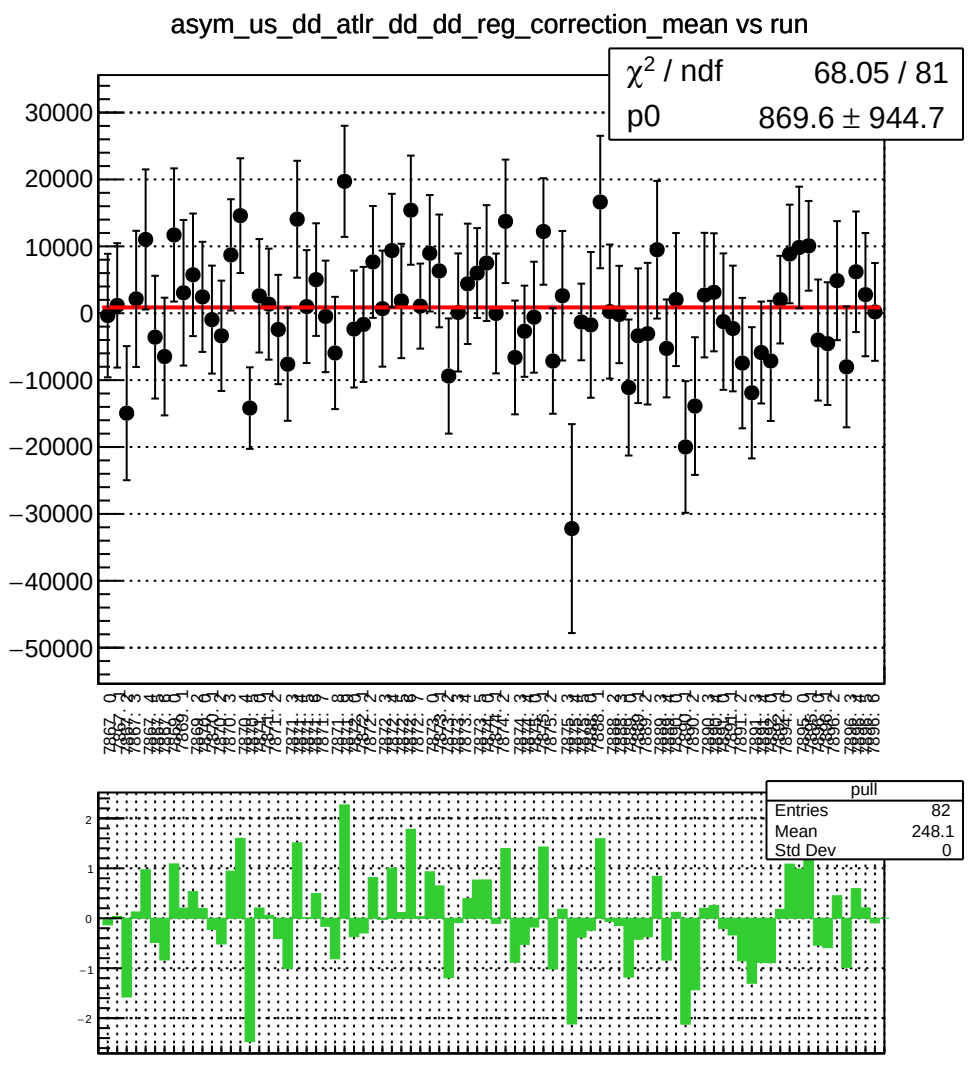

pull1D
Entries 82
Mean 0.003825
Std Dev 0.9414

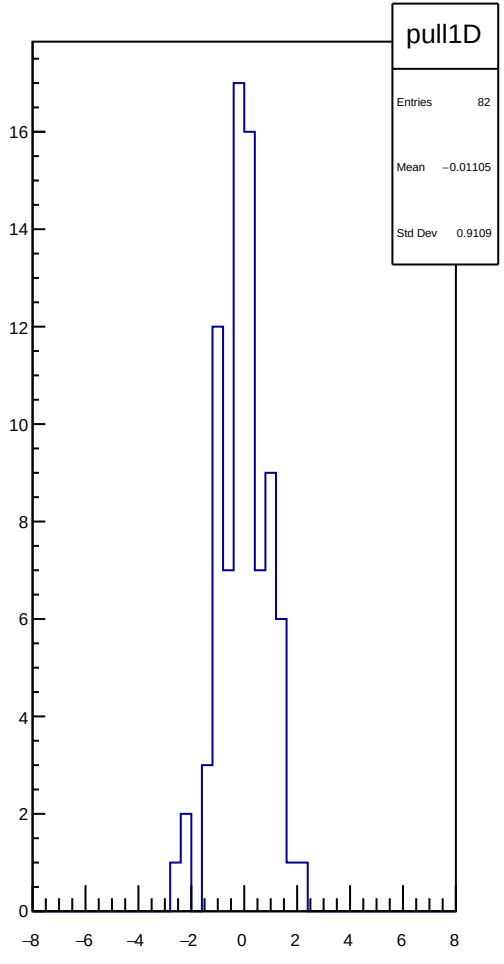

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.47e+05 / 81
p0 1.504e−10 ± 1.817e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

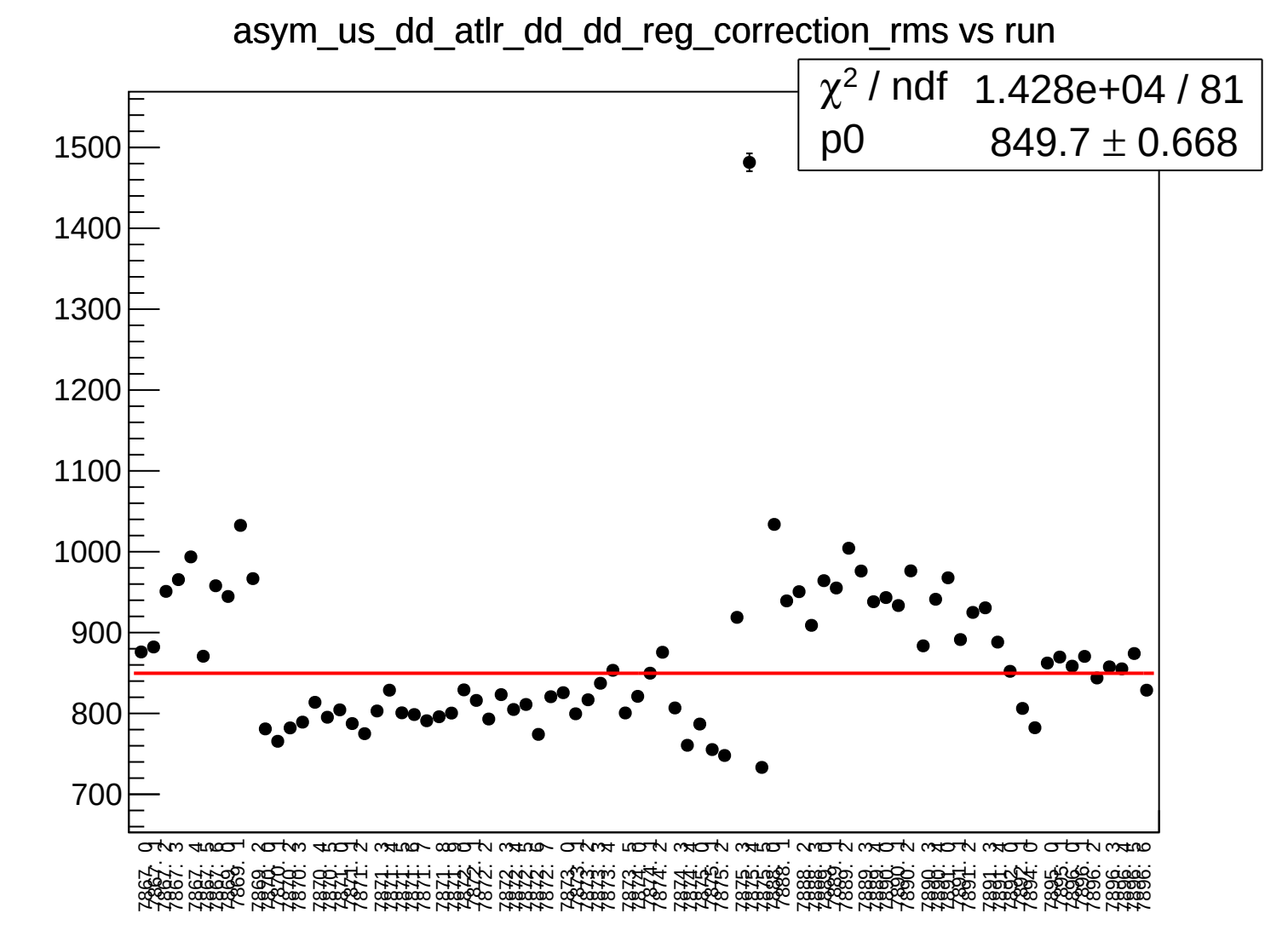

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ^2 / ndf 90.34 / 81
p0 29.12 ± 1242
pull
Entries 82
Mean 178.5
Std Dev 0

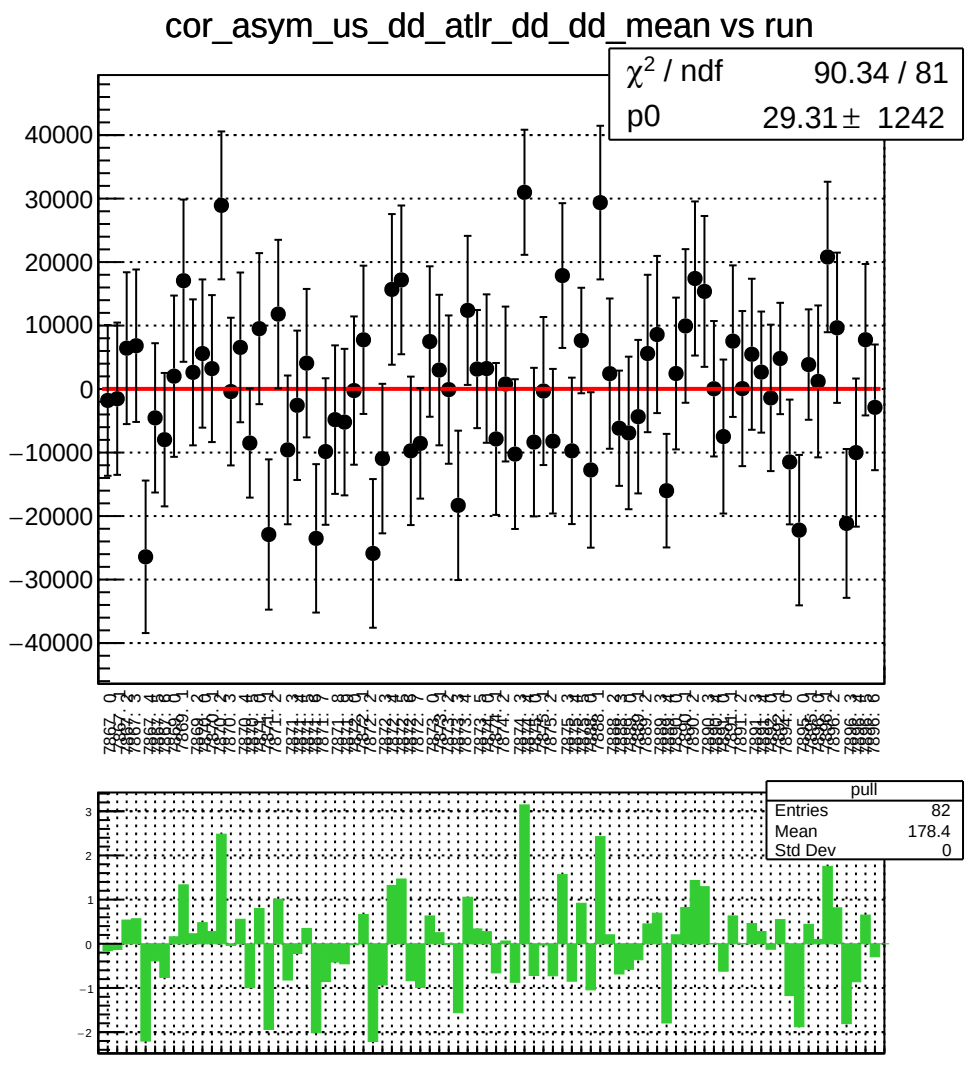

pull1D
Entries 82
Mean 0.007721
Std Dev 1.05

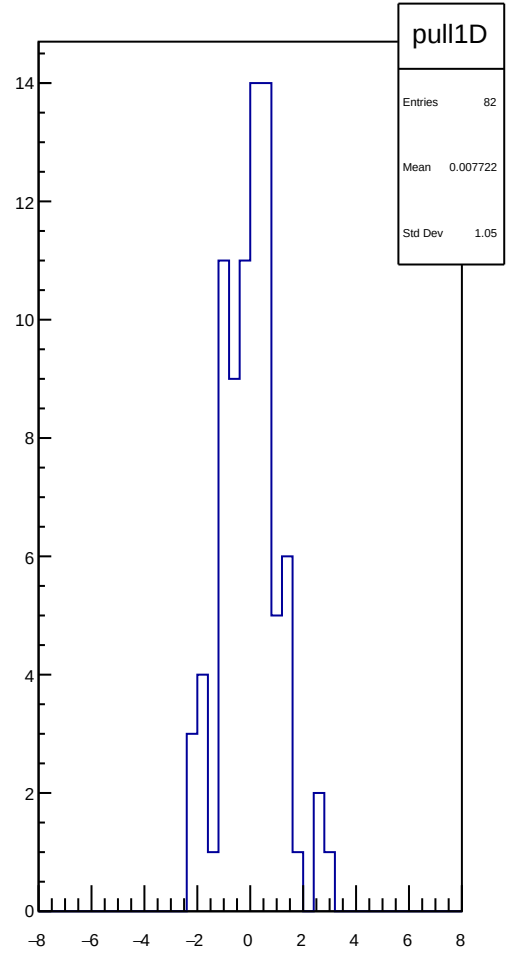

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 998.5 / 81
p0 1122 ± 0.8782
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

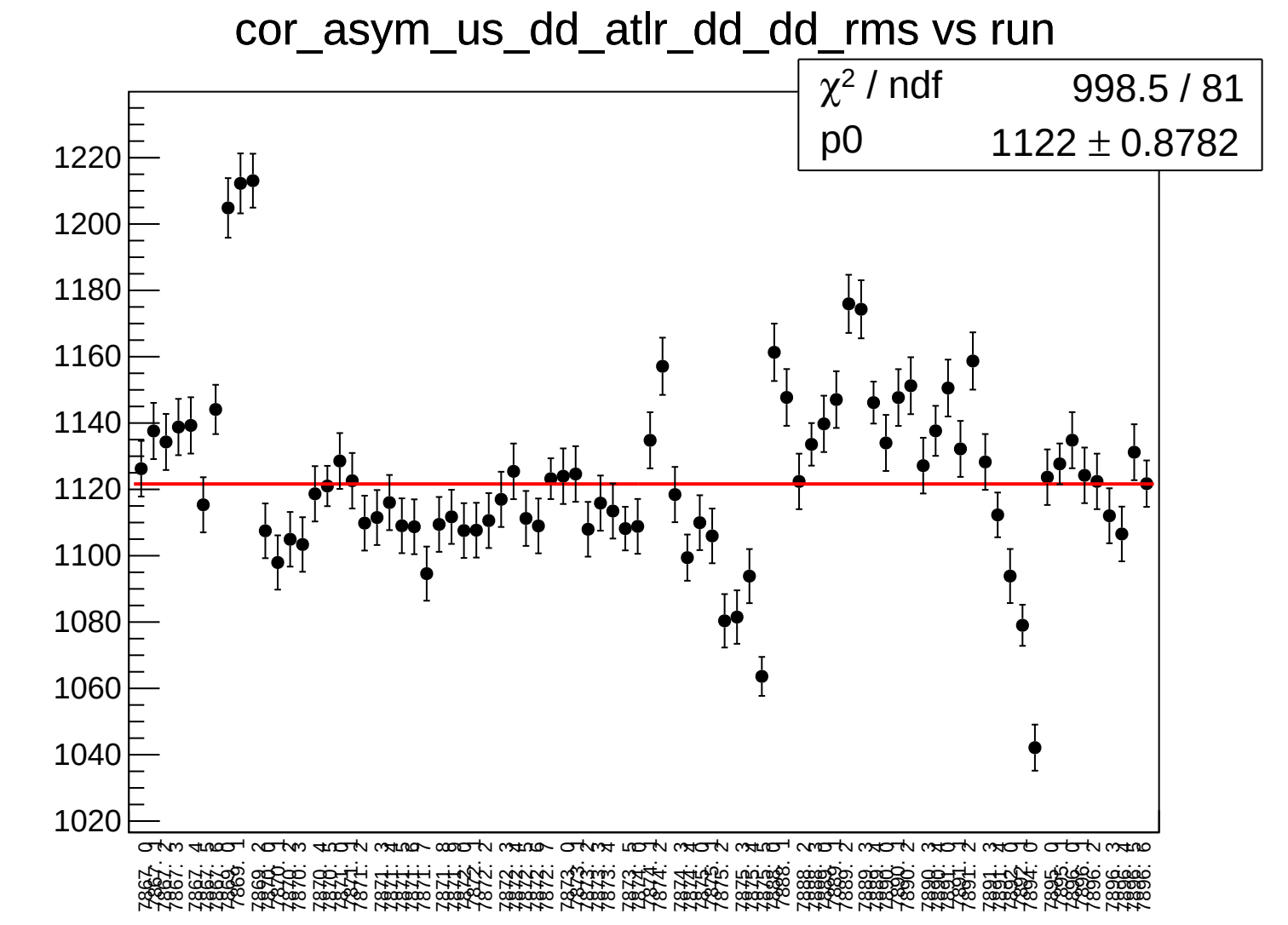

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 68.05 / 81
p0 869.6 ± 944.7
pull
Entries 82
Mean 248.1
Std Dev 0

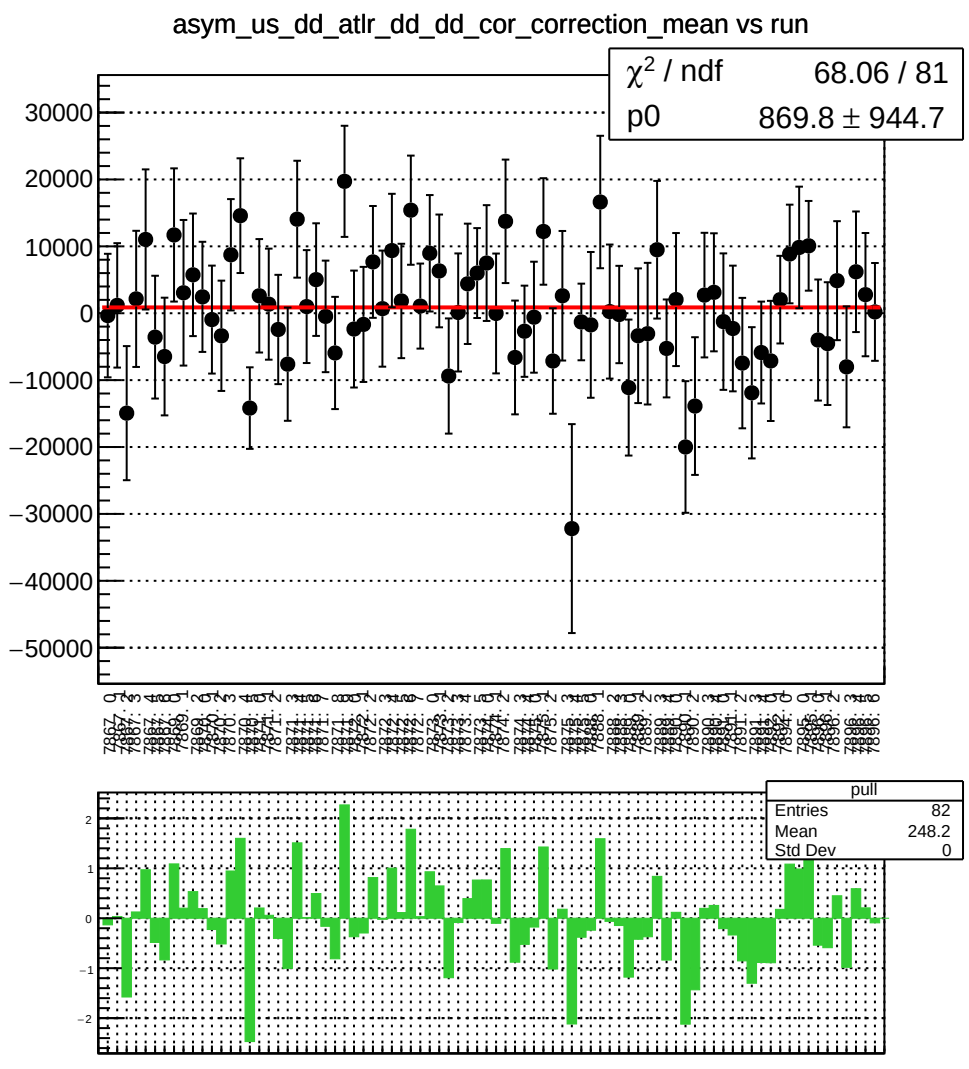

pull1D
Entries 82
Mean −0.01105
Std Dev 0.9109

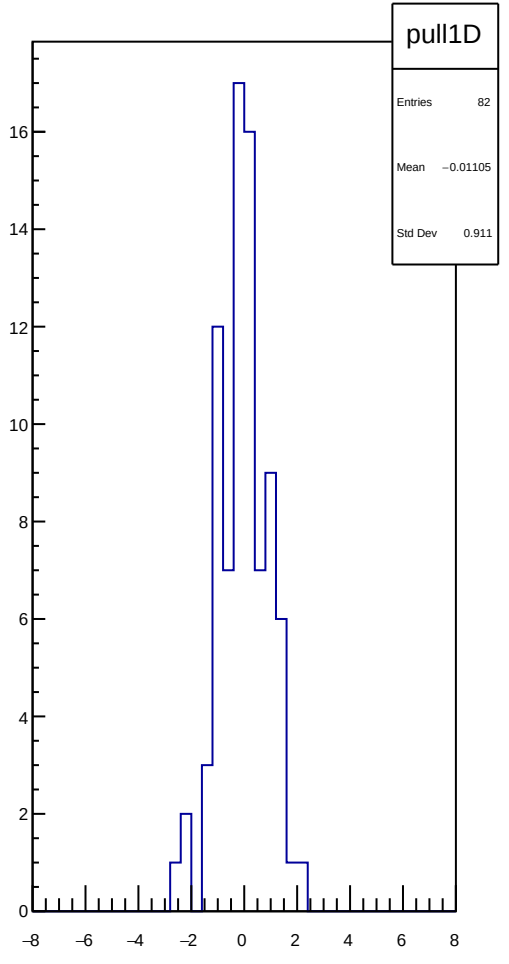

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.428e+04 / 81
p0 849.7 ± 0.668
1500
1400
1300
1200
1100
1000
900
800
700

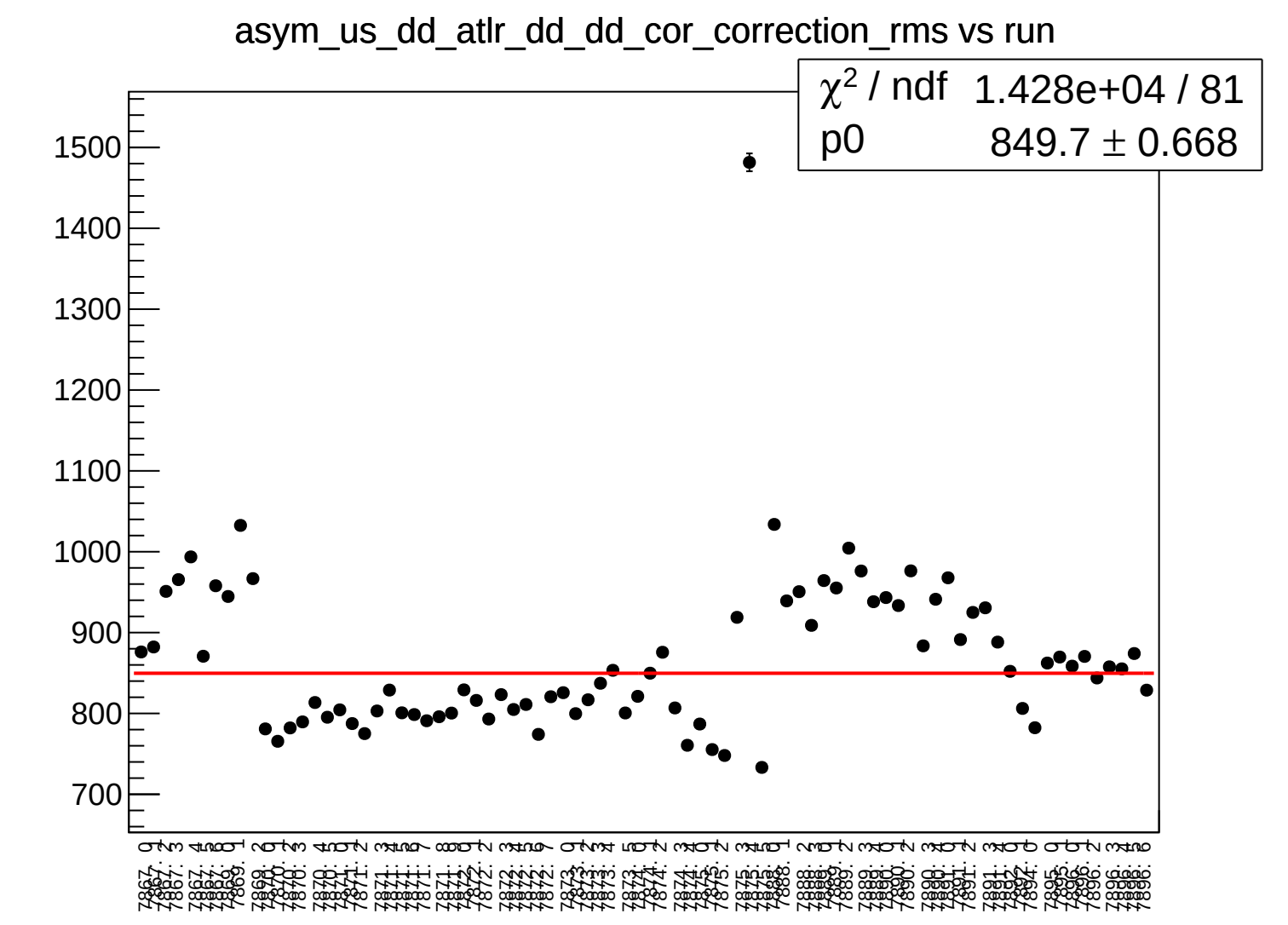

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.34 / 81
p0 29.31 ± 1242
pull
Entries 82
Mean 178.4
Std Dev 0

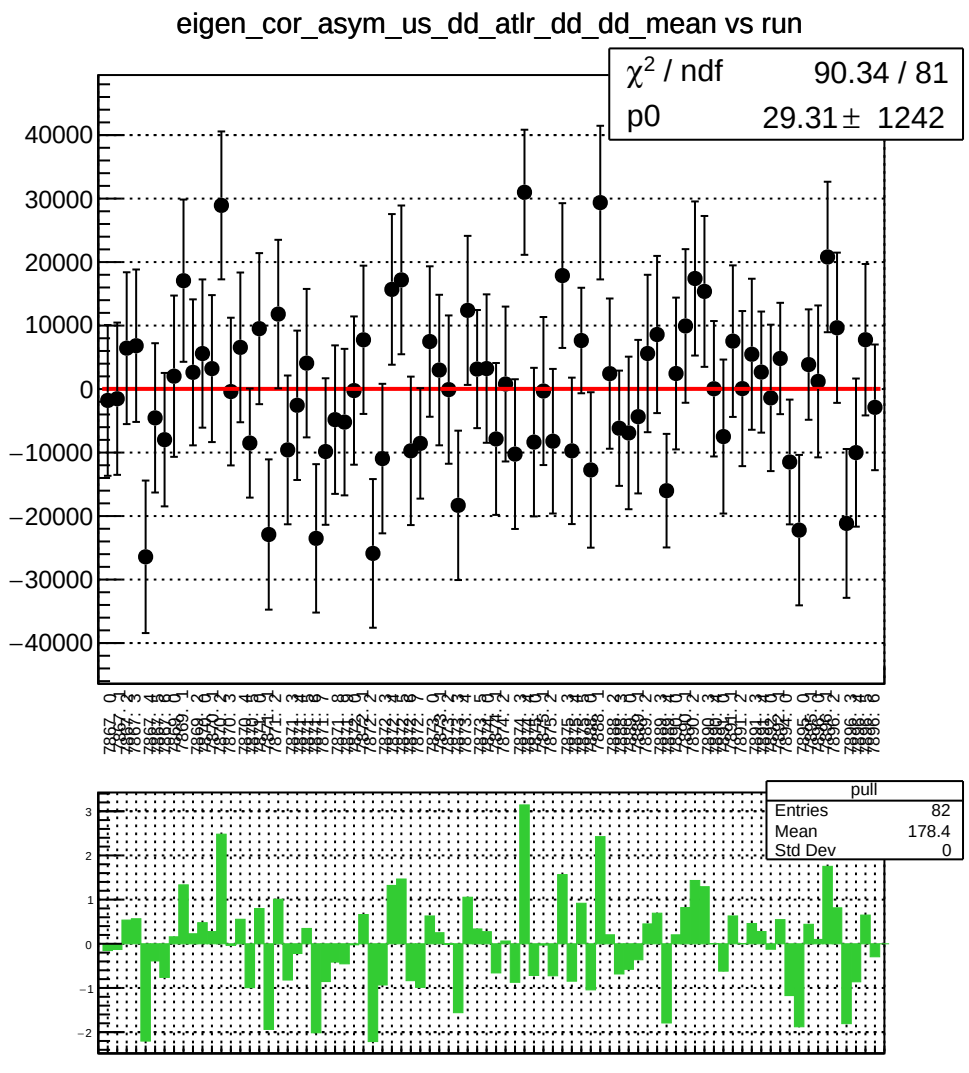

pull1D
Entries 82
Mean 0.007722
Std Dev 1.05

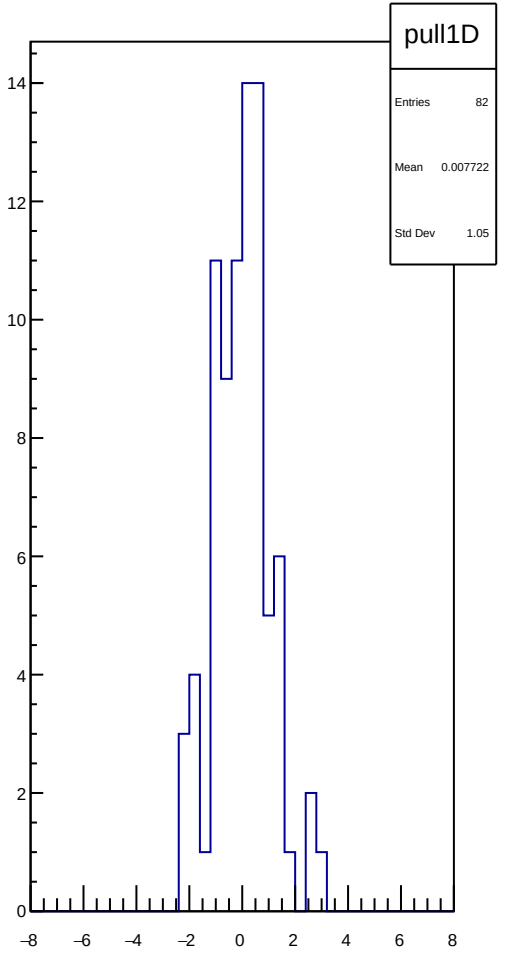

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 998.5 / 81
p0 1122 ± 0.8782
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

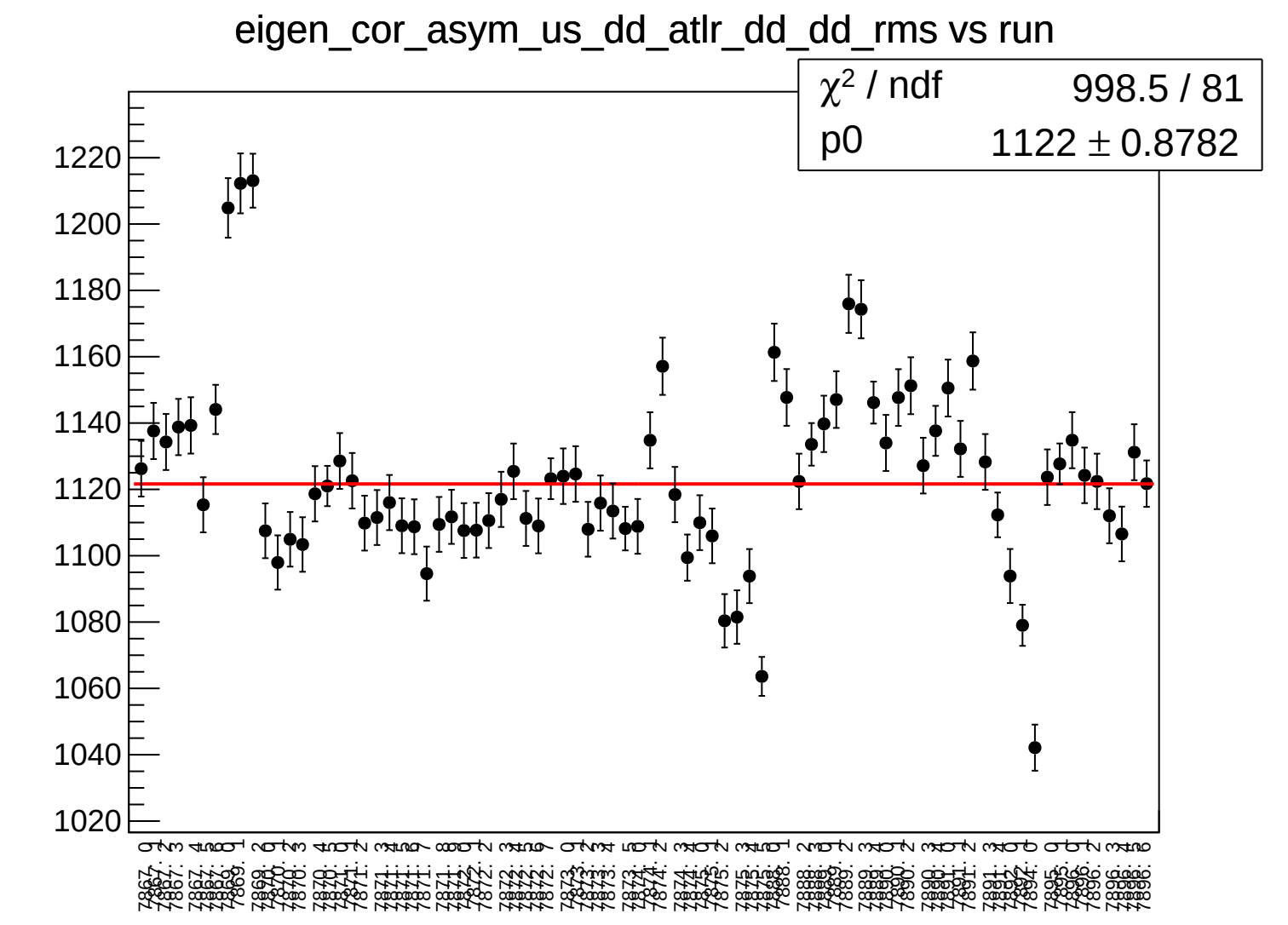

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 68.06 / 81
p0 869.8 ± 944.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 82
Mean 248.2
Std Dev 0
2
1
0
−1
−2

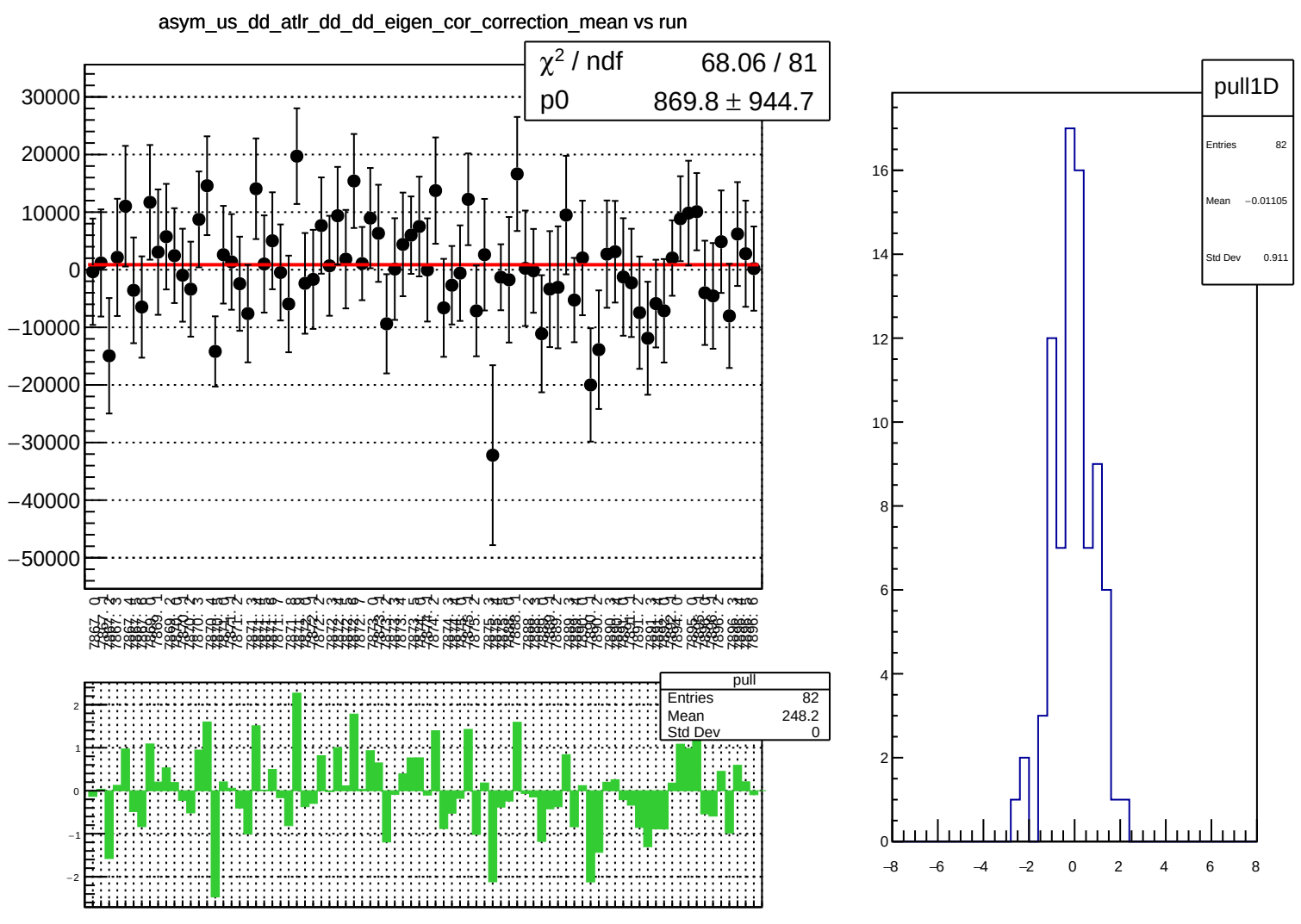

pull1D
Entries 82
Mean −0.01105
Std Dev 0.911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

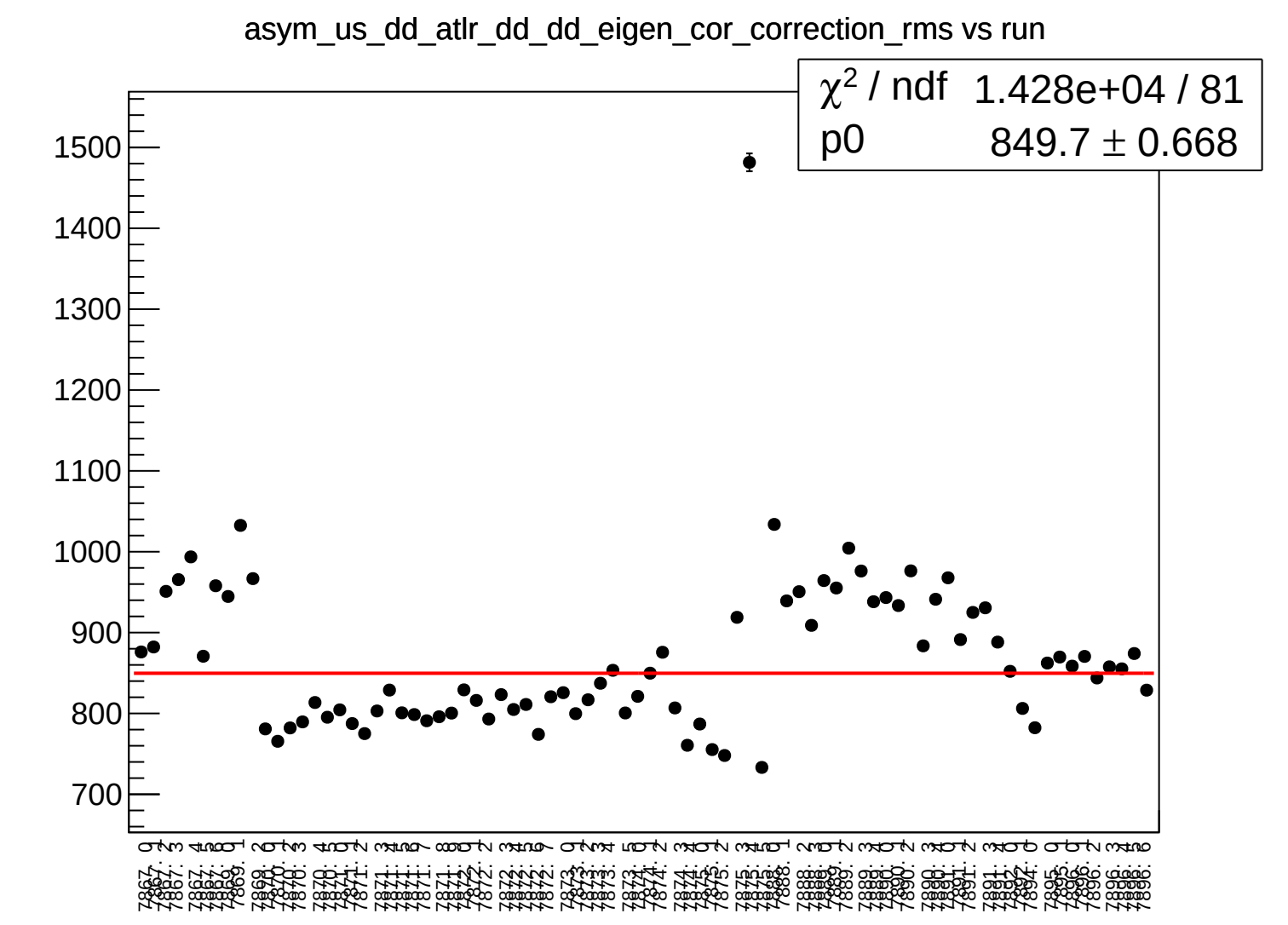

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.428e+04 / 81
p0 849.7 ± 0.668
1500
1400
1300
1200
1100
1000
900
800
700

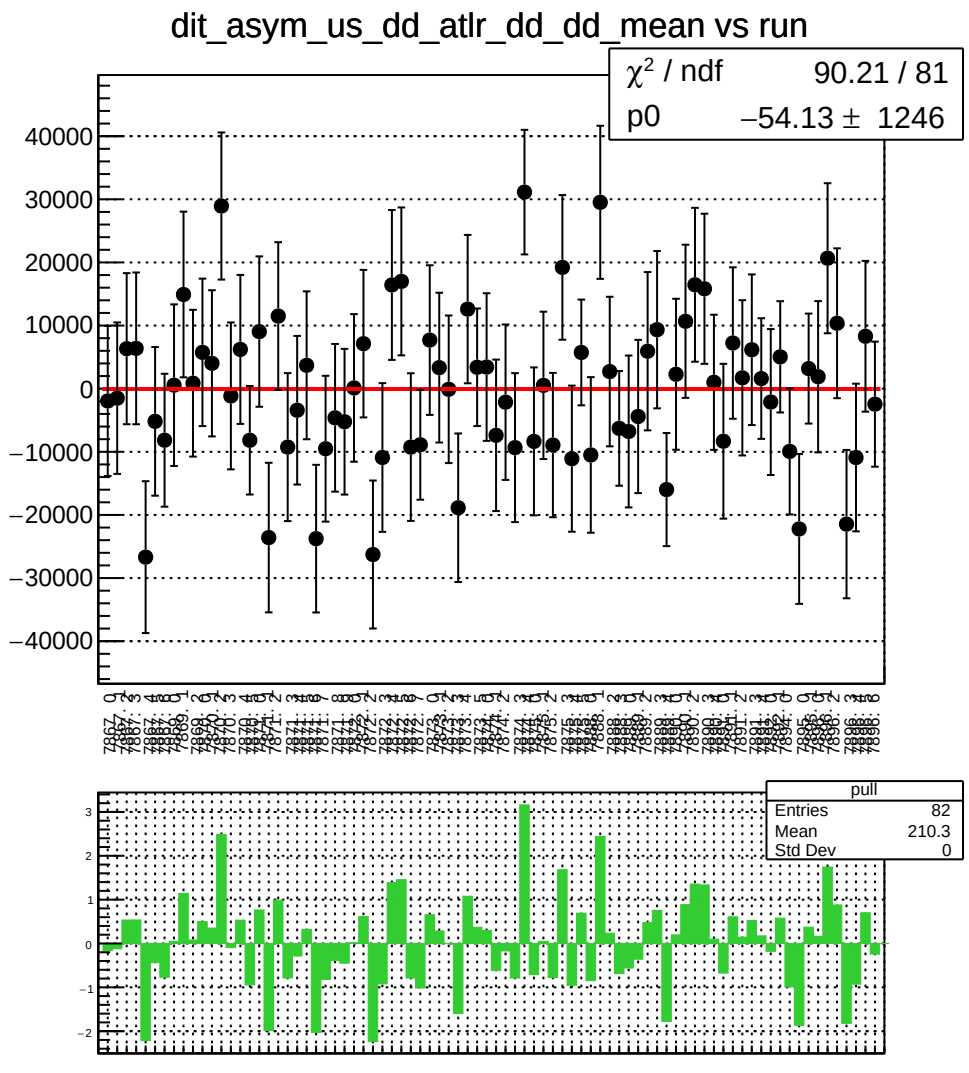

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.34 / 81
p0 29.31 ± 1242
pull
Entries 82
Mean 178.4
Std Dev 0

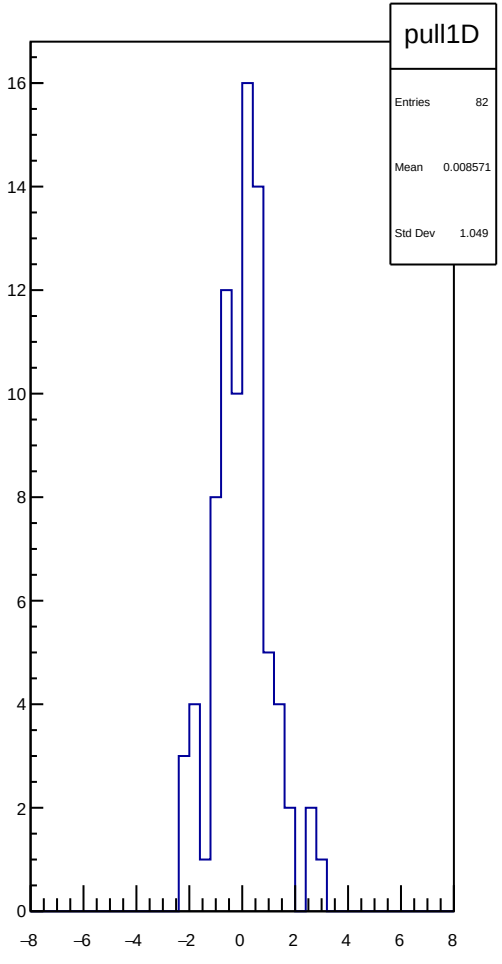

pull1D
Entries 82
Mean 0.007722
Std Dev 1.05

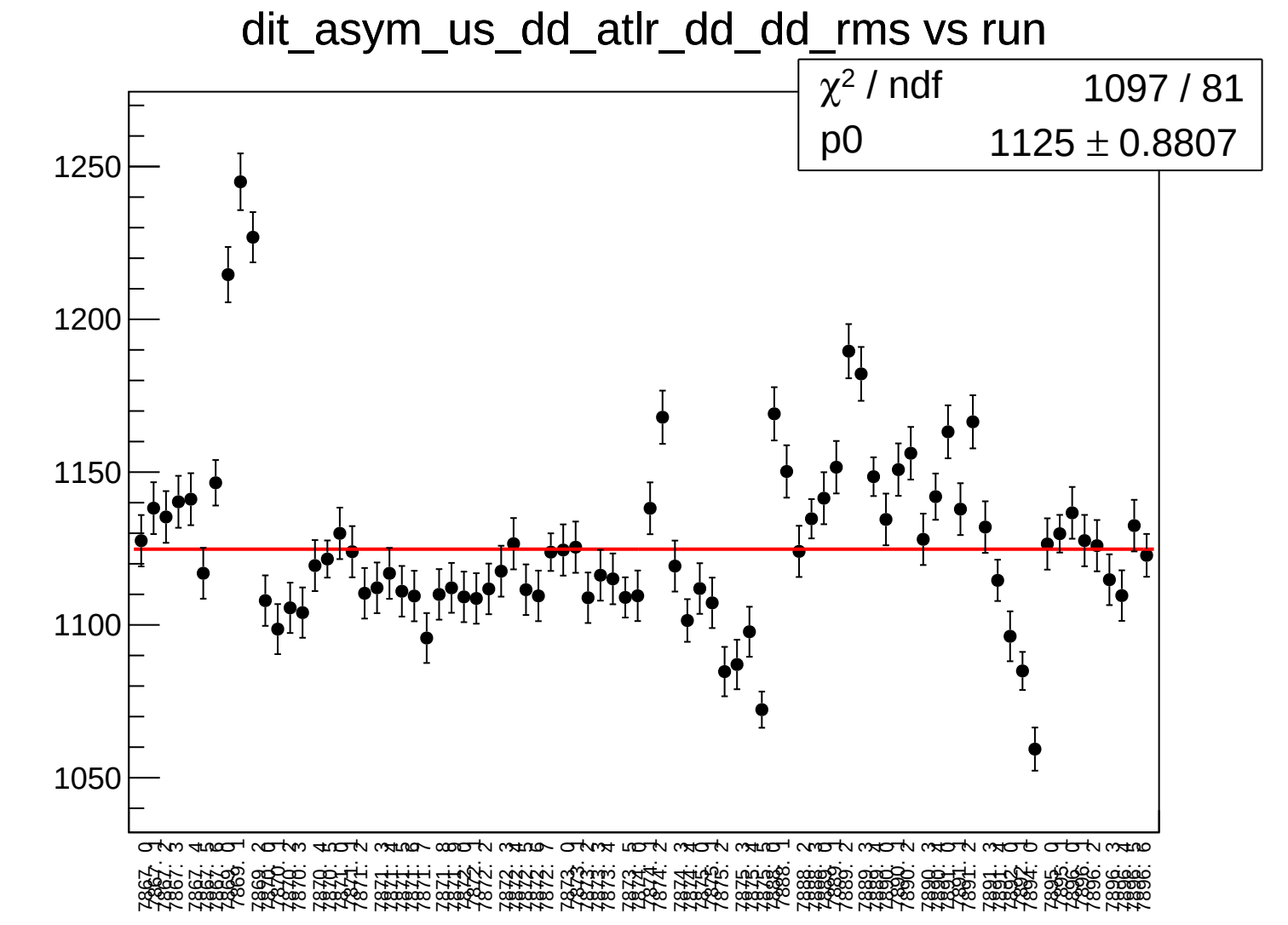

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 998.5 / 81
p0 1122 ± 0.8782
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

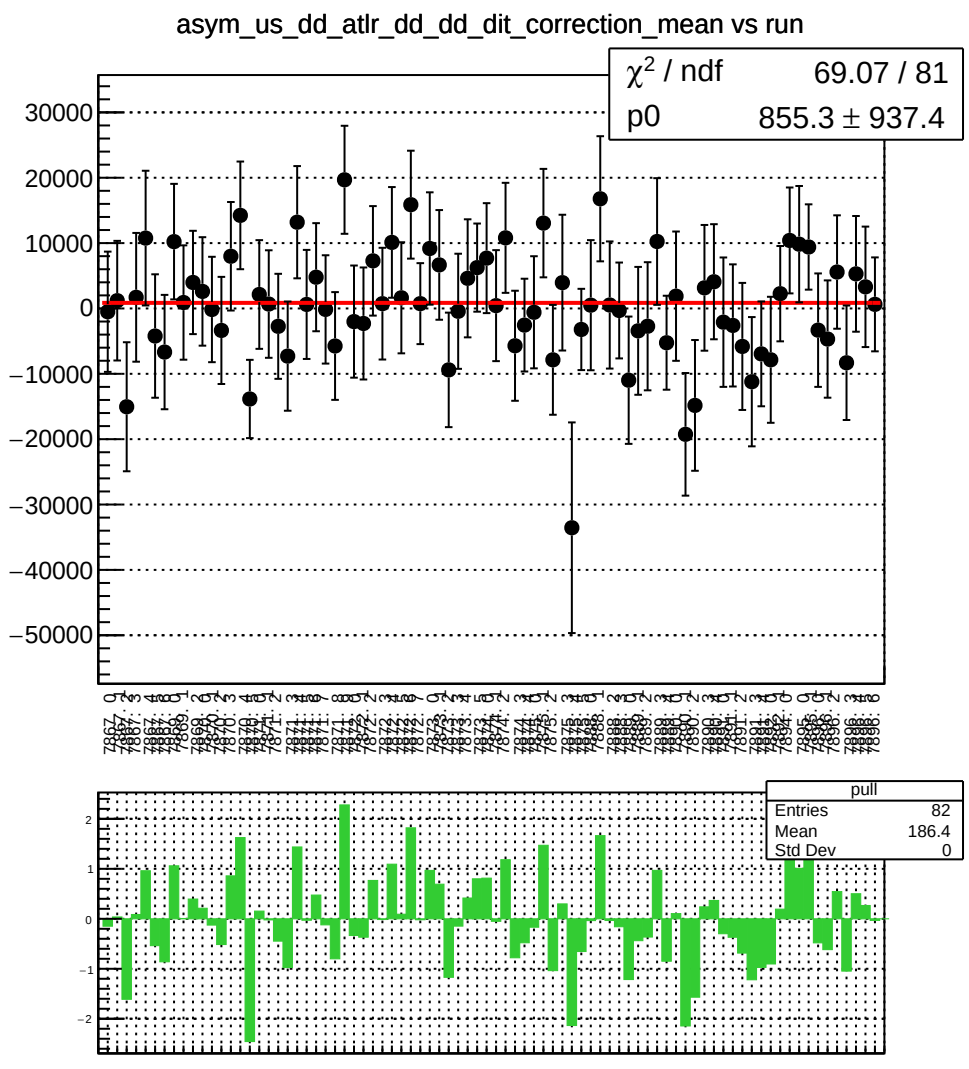

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.06 / 81
p0 869.8 ± 944.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 82
Mean 248.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01105
Std Dev 0.911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

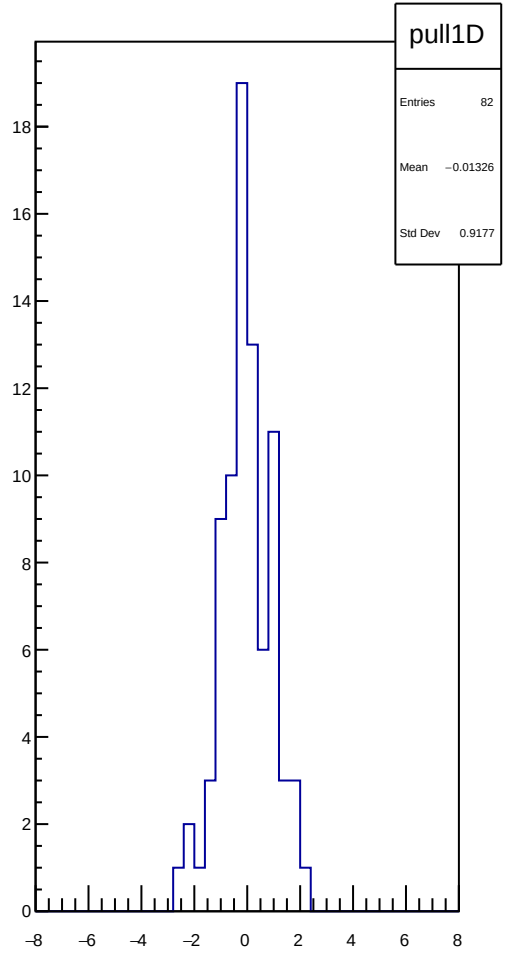

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.428e+04 / 81
p0 849.7 ± 0.668
1500
1400
1300
1200
1100
1000
900
800
700

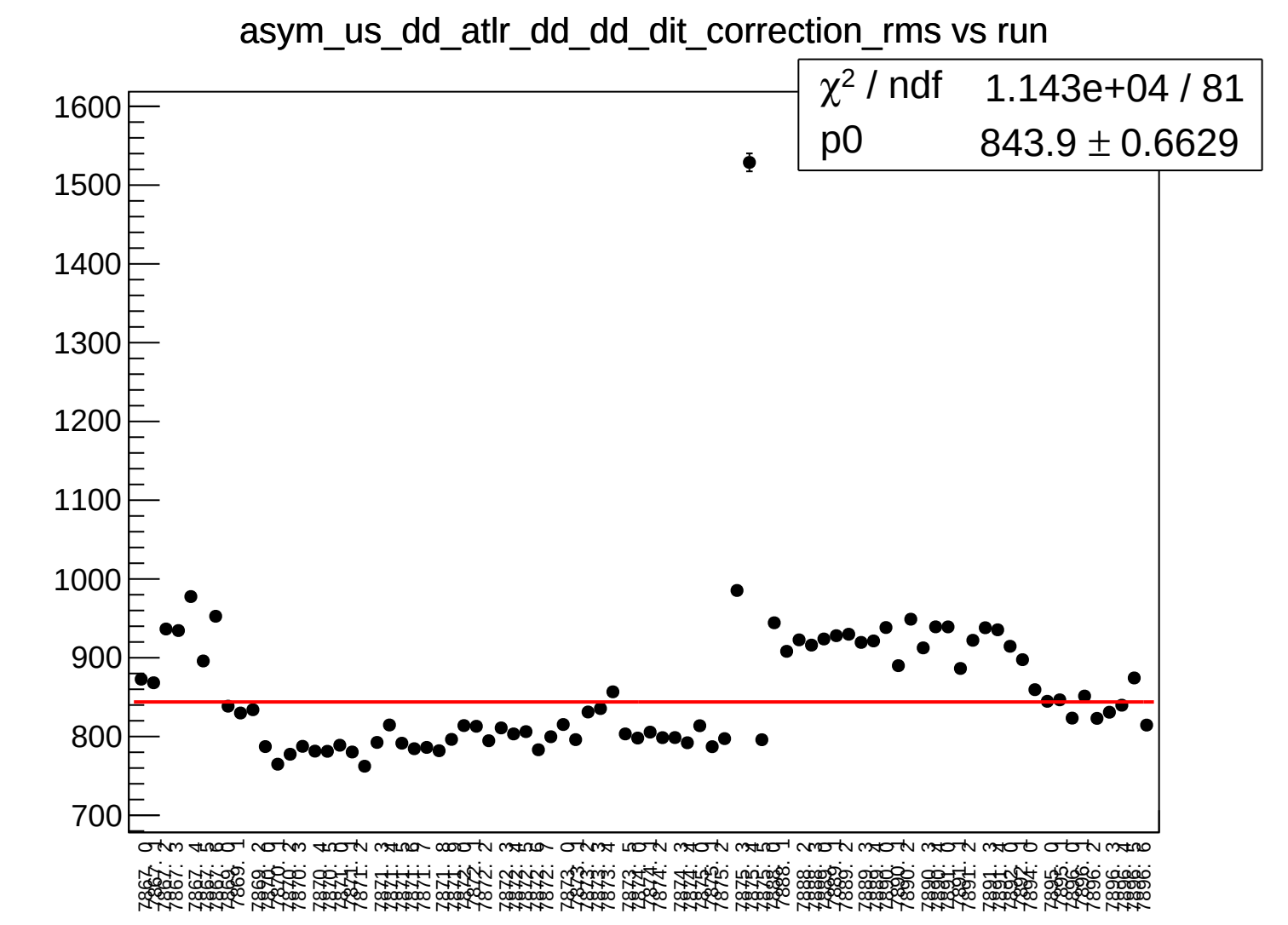

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.21 / 81
p0 −54.13 ± 1246
pull
Entries 82
Mean 210.3
Std Dev 0

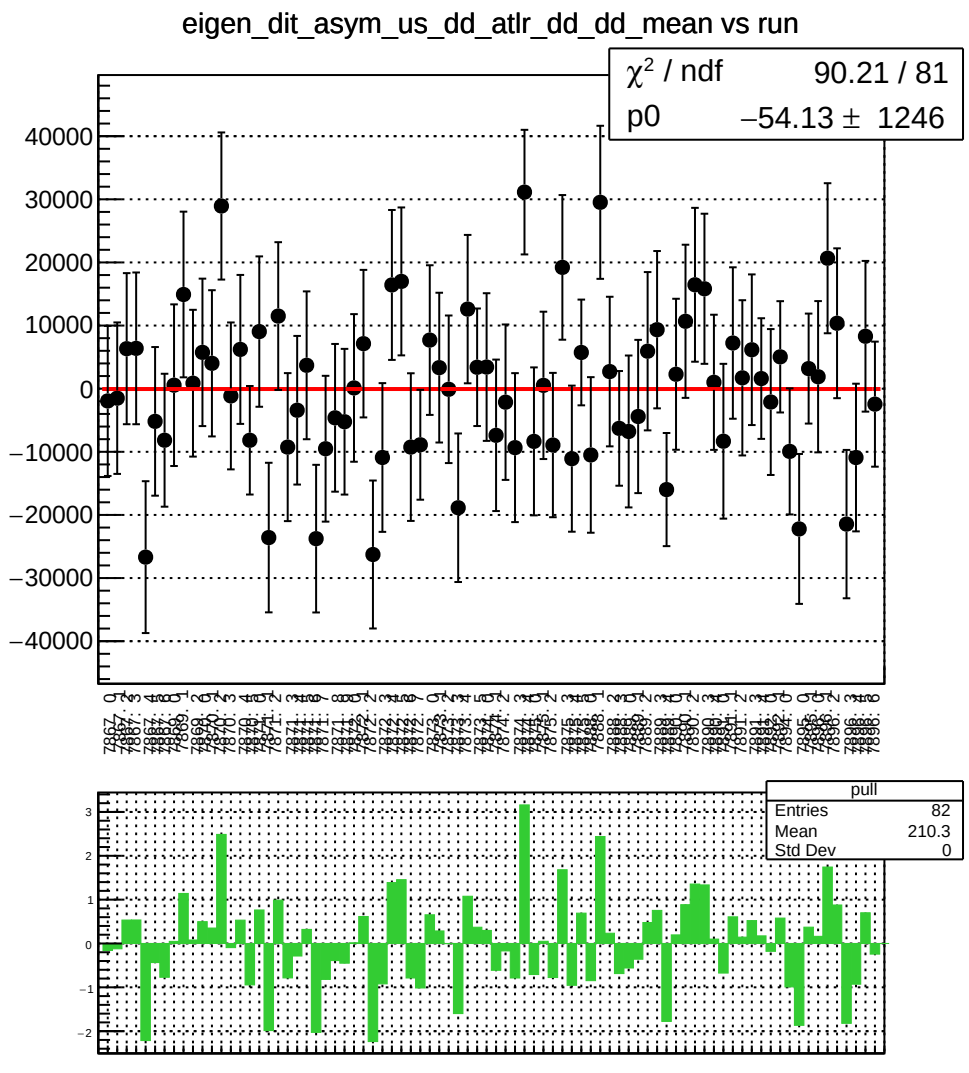

pull1D
Entries 82
Mean 0.008571
Std Dev 1.049

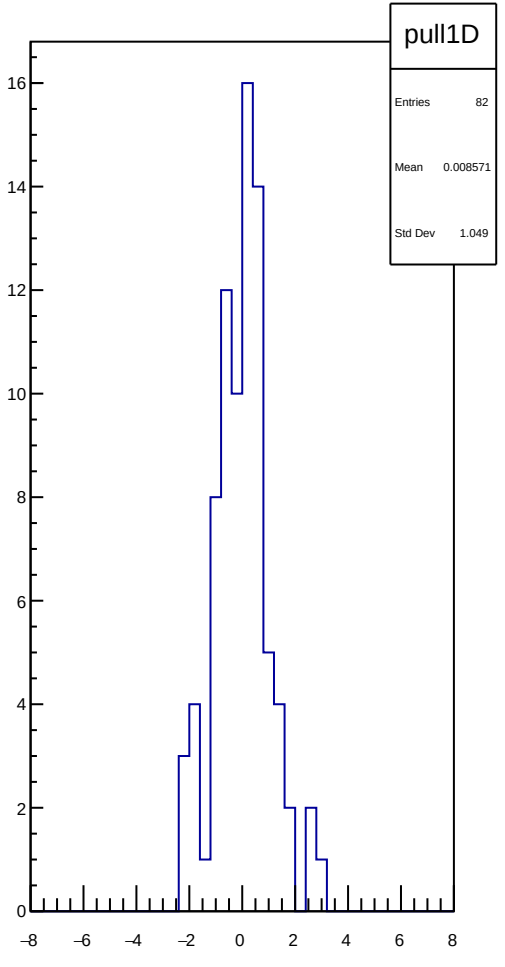

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1097 / 81
p0 1125 ± 0.8807
1250
1200
1150
1100
1050

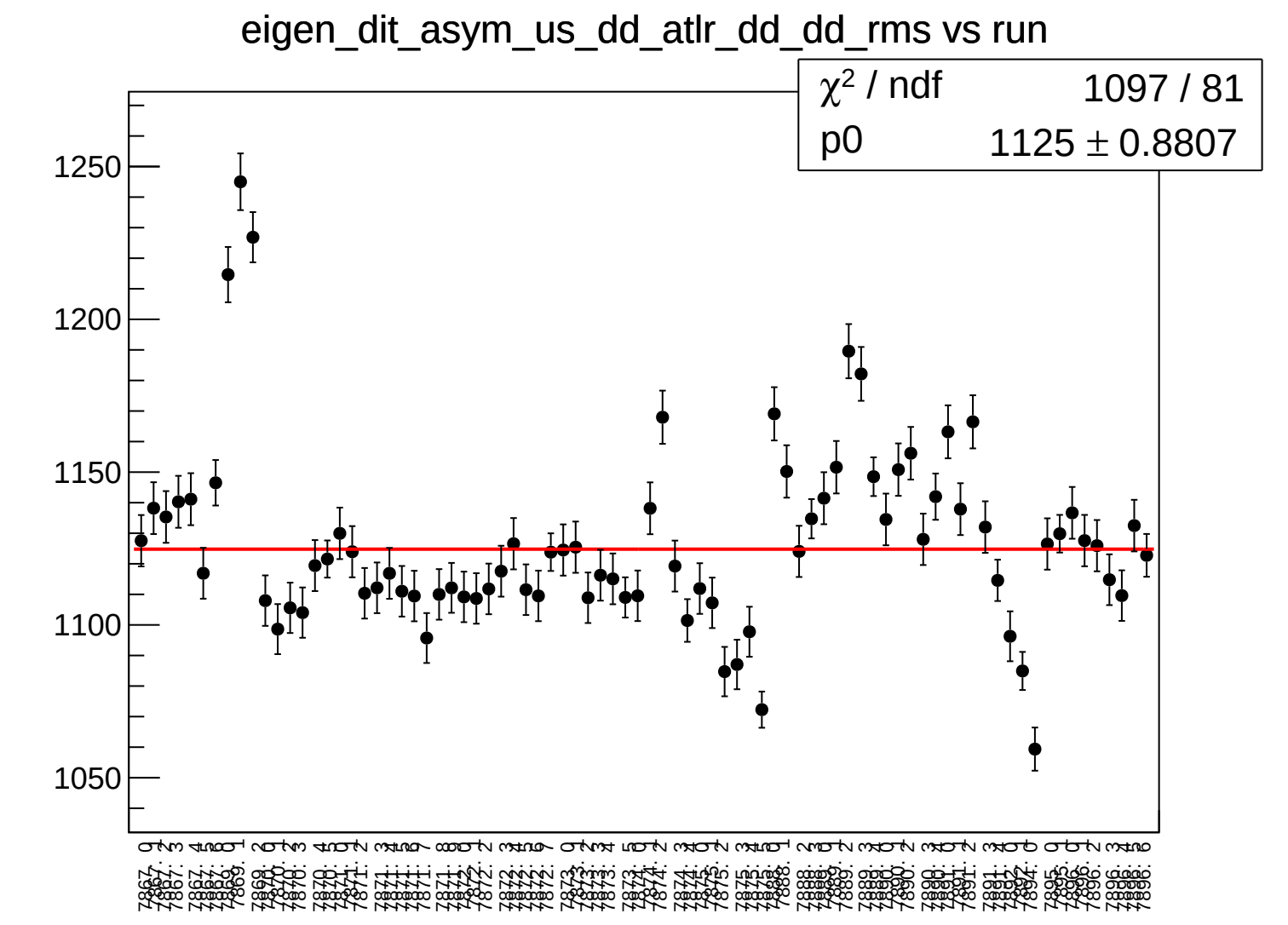

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ^2 / ndf 69.07 / 81
p0 855.3 ± 937.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 82
Mean 186.4
Std Dev 0
2
1
0
−1
−2

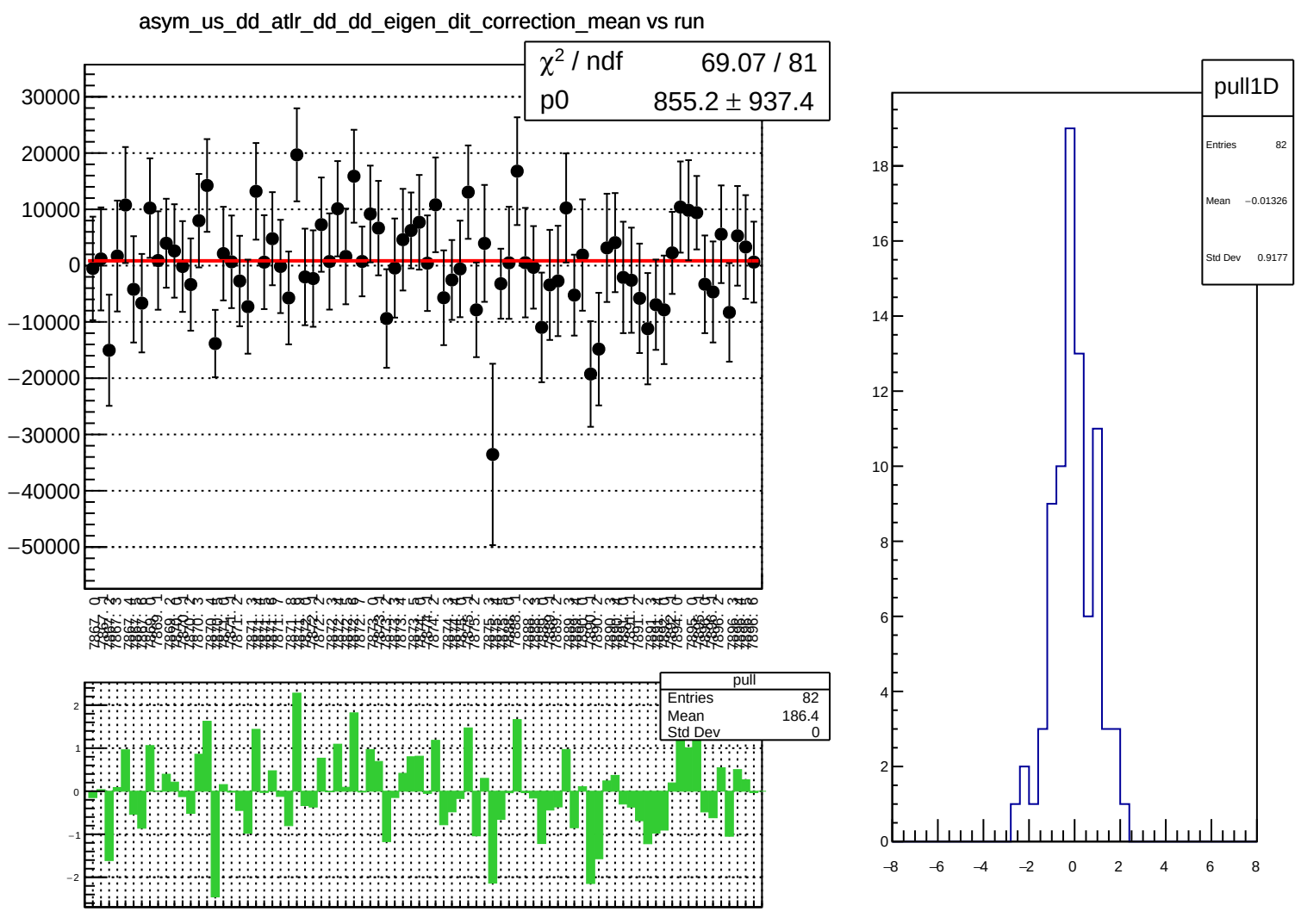

pull1D
Entries 82
Mean −0.01326
Std Dev 0.9177
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

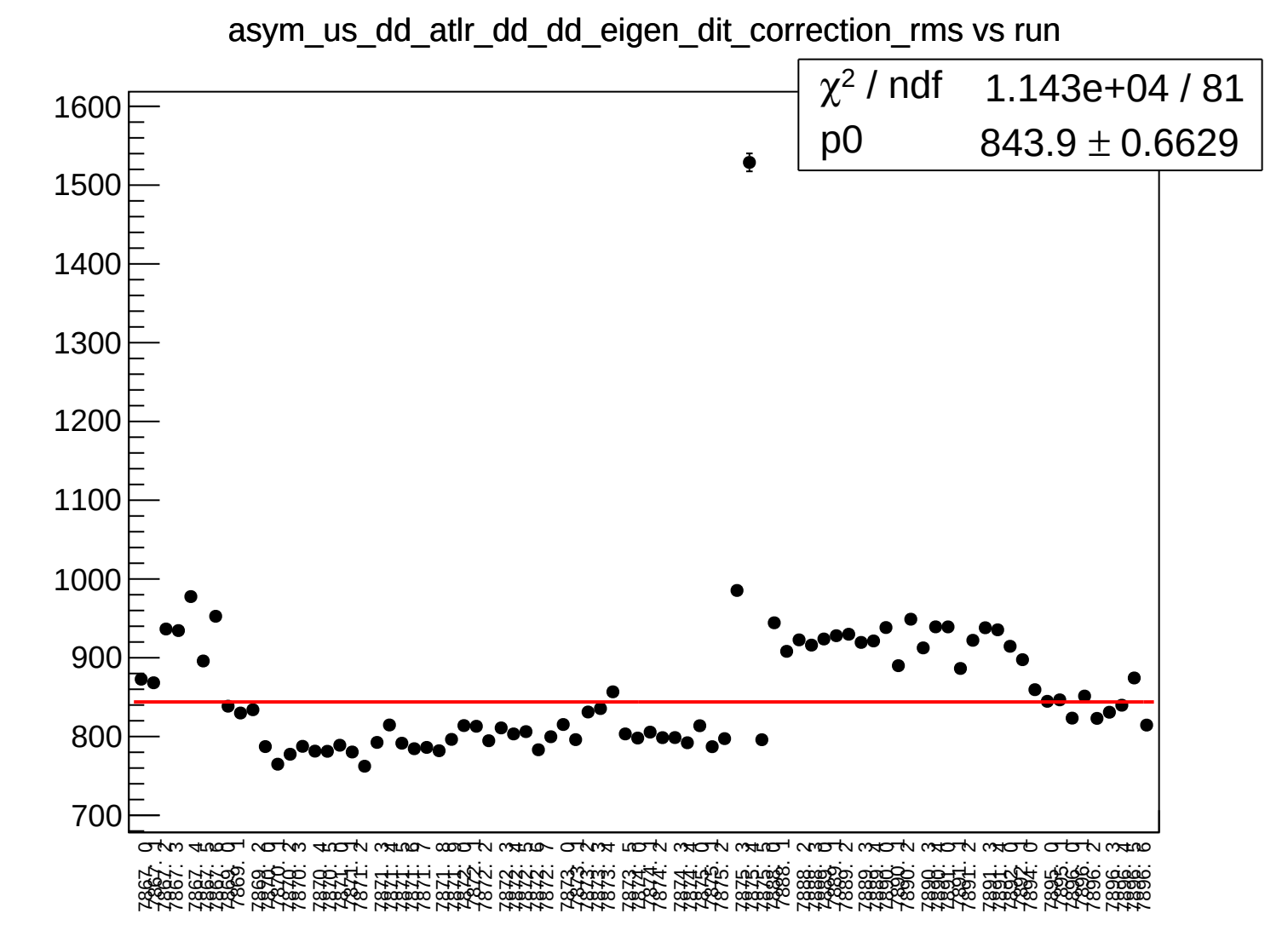

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.143e+04 / 81
p0 843.9 ± 0.6629
1600
1500
1400
1300
1200
1100
1000
900
800
700

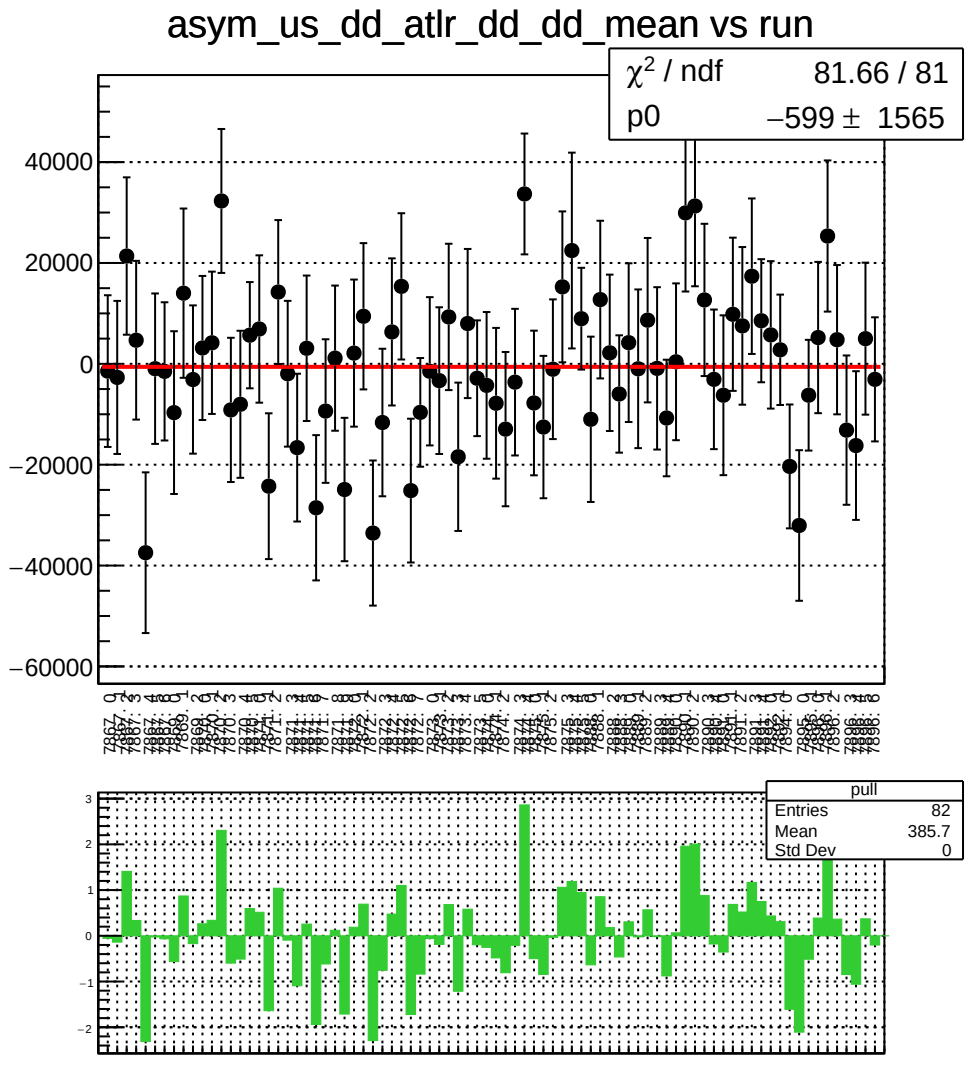

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.21 / 81
p0 −54.13 ± 1246
pull
Entries 82
Mean 210.3
Std Dev 0

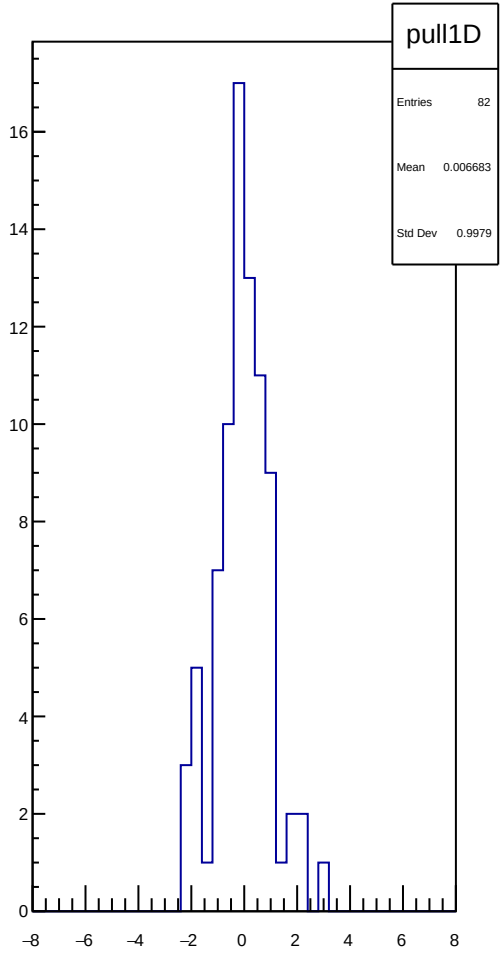

pull1D
Entries 82
Mean 0.008571
Std Dev 1.049

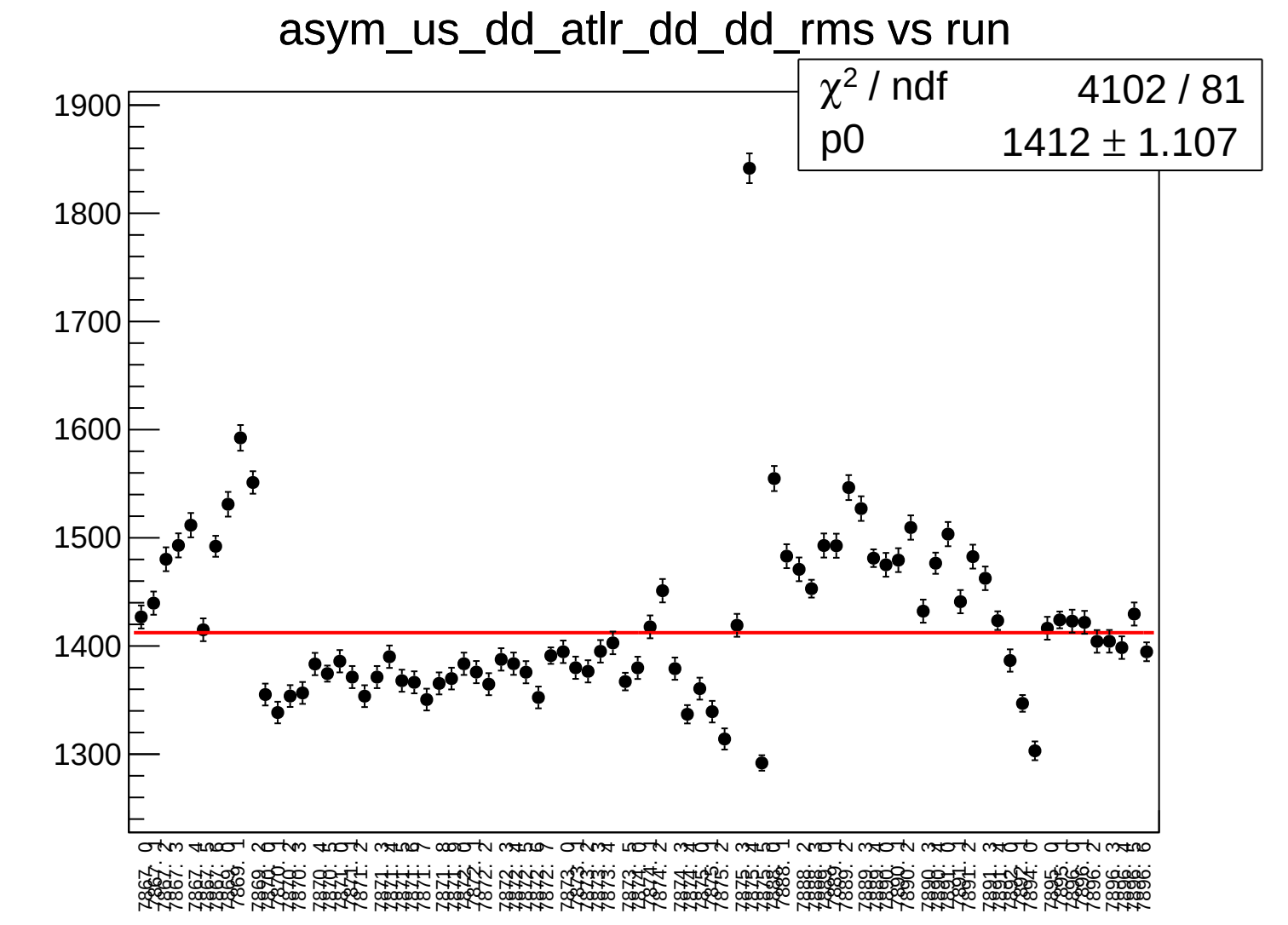

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1097 / 81
p0 1125 ± 0.8807
1250
1200
1150
1100
1050

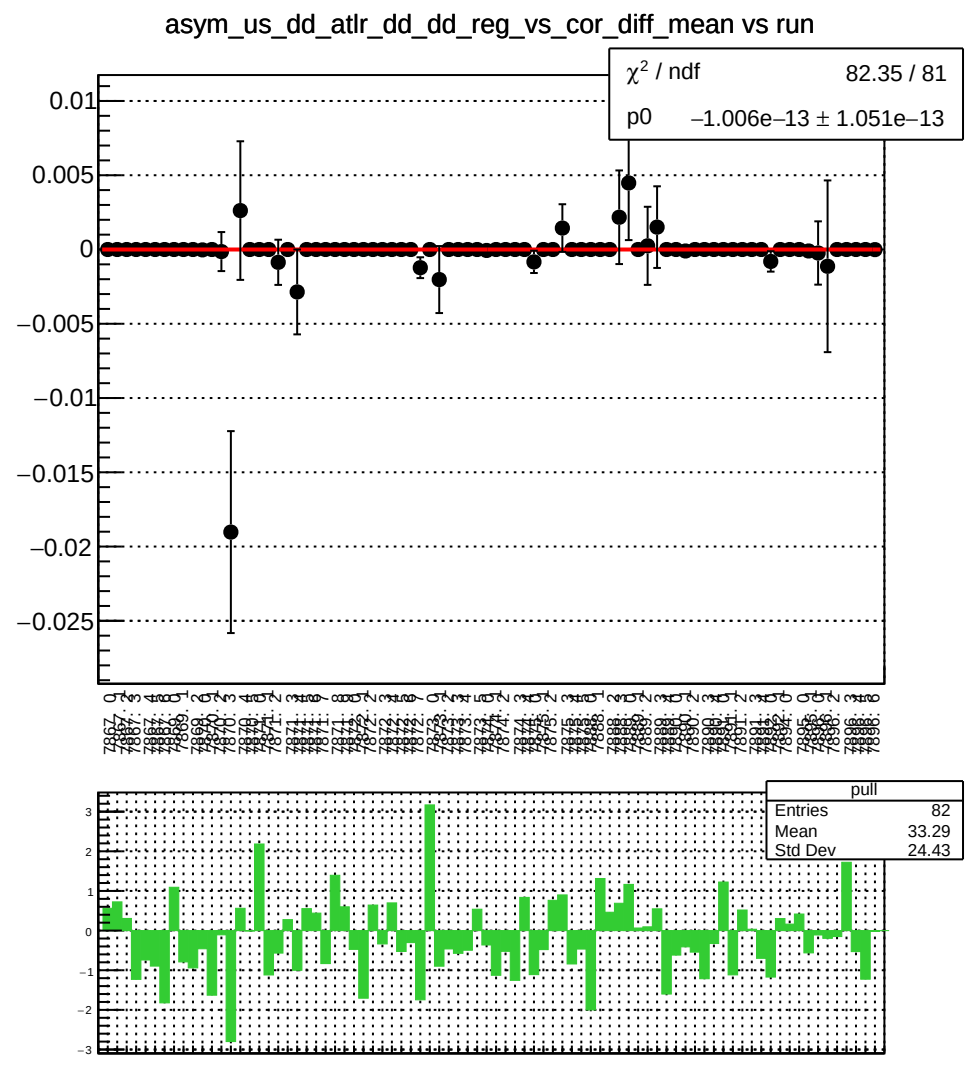

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.07 / 81
p0 855.2 ± 937.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 82
Mean 186.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01326
Std Dev 0.9177
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

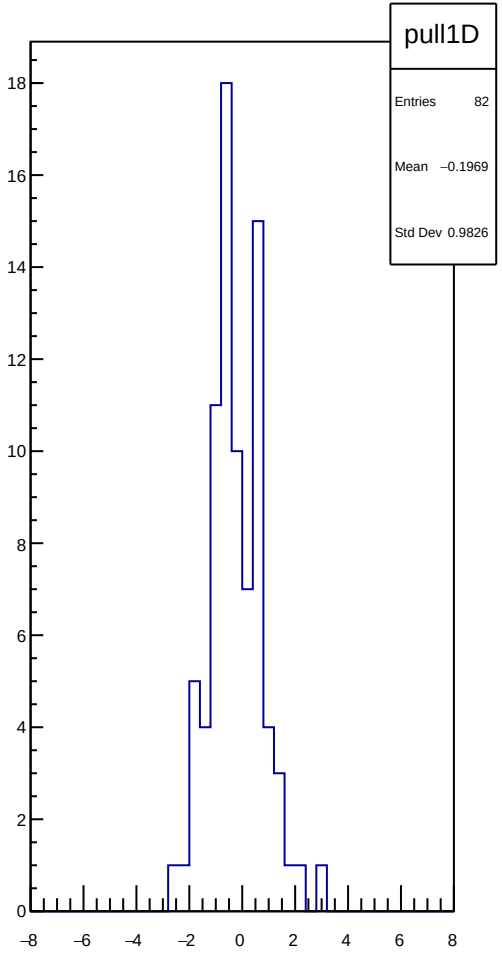

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.143e+04 / 81
p0 843.9 ± 0.6629
1600
1500
1400
1300
1200
1100
1000
900
800
700

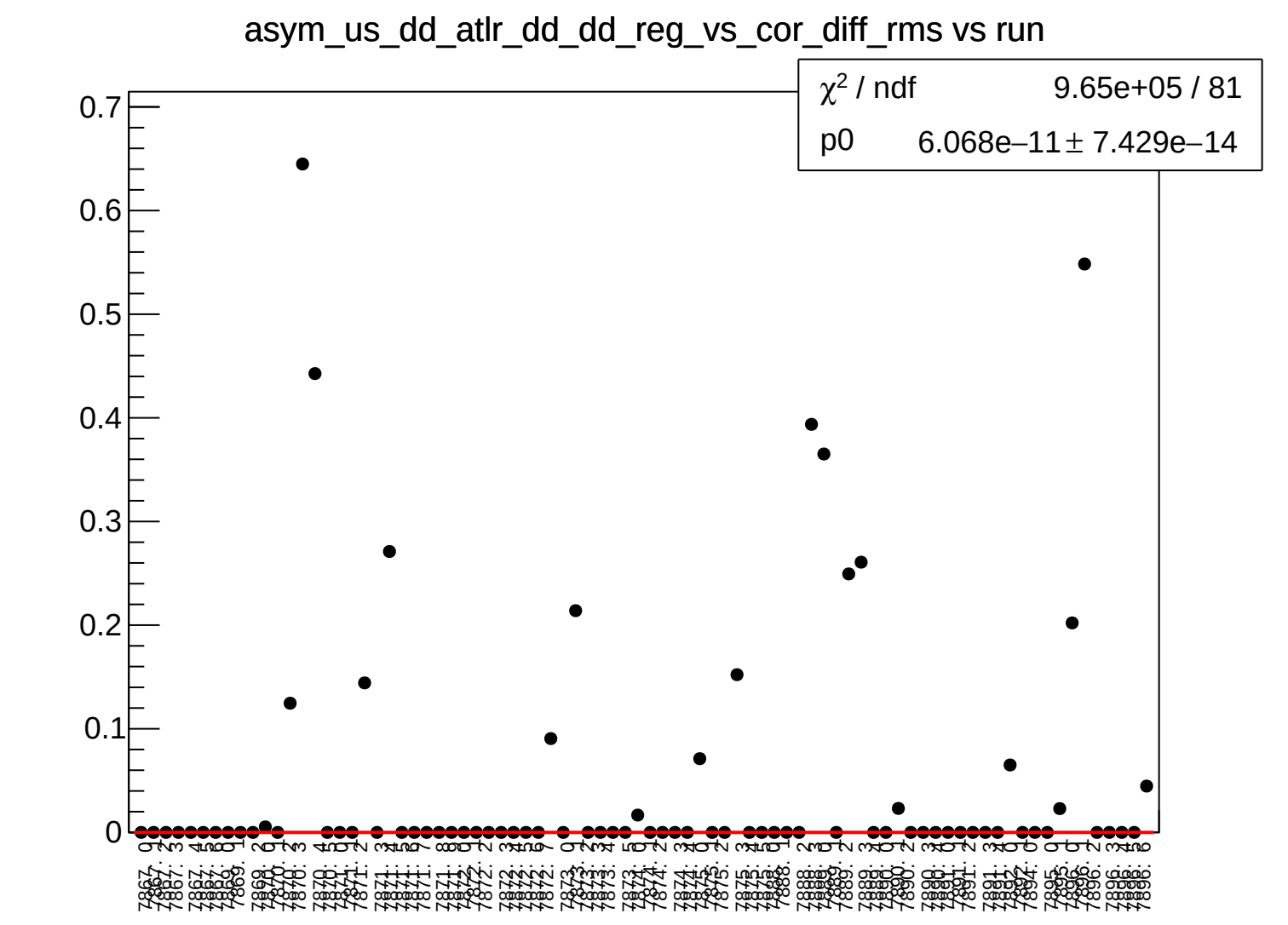

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.66 / 81
p0 −599 ± 1565
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 385.7
Std Dev 0
3
2
1
0
−1
−2

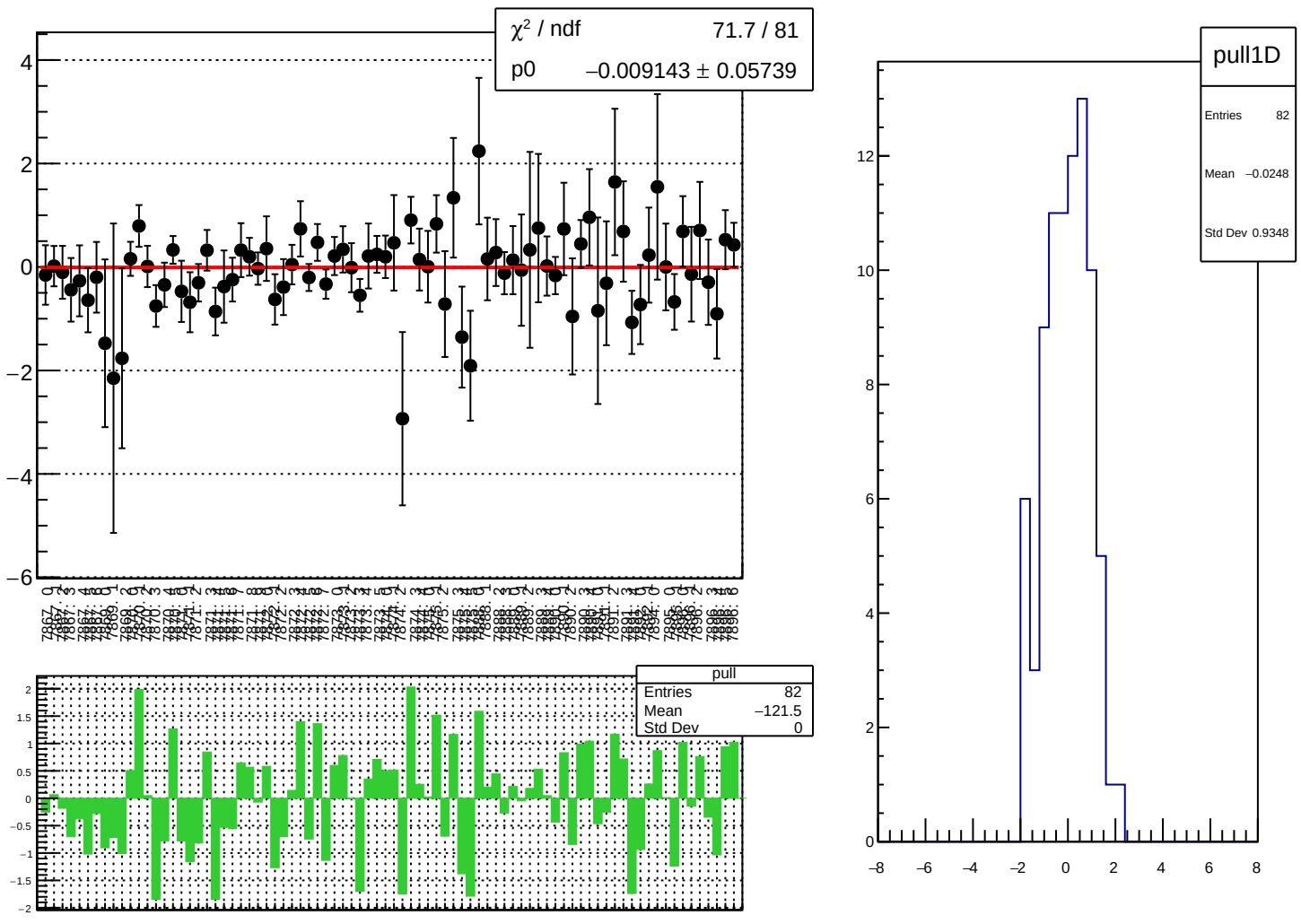

pull1D
Entries 82
Mean 0.006683
Std Dev 0.9979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

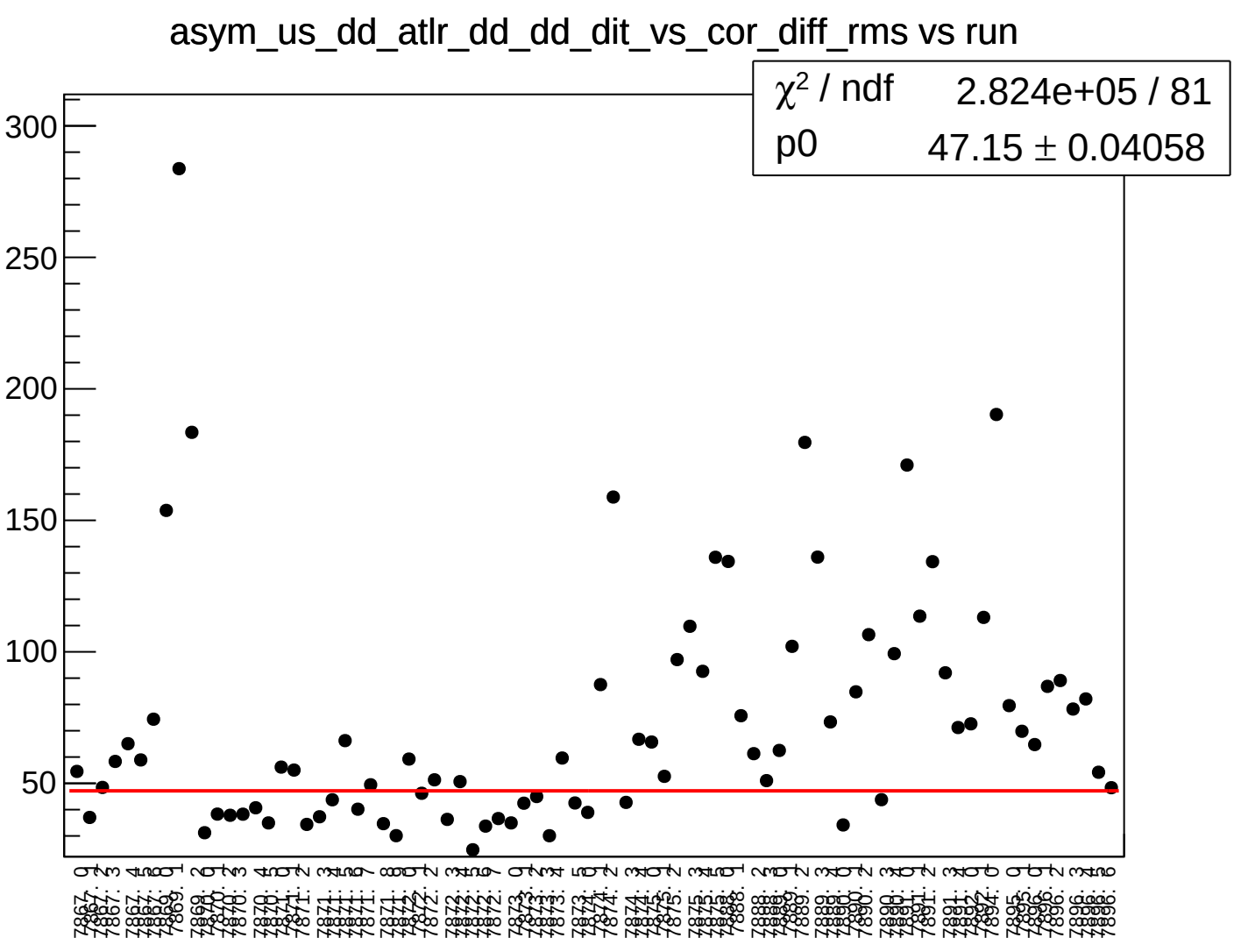

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 4102 / 81
p0 1412 ± 1.107
1900
1800
1700
1600
1500
1400
1300

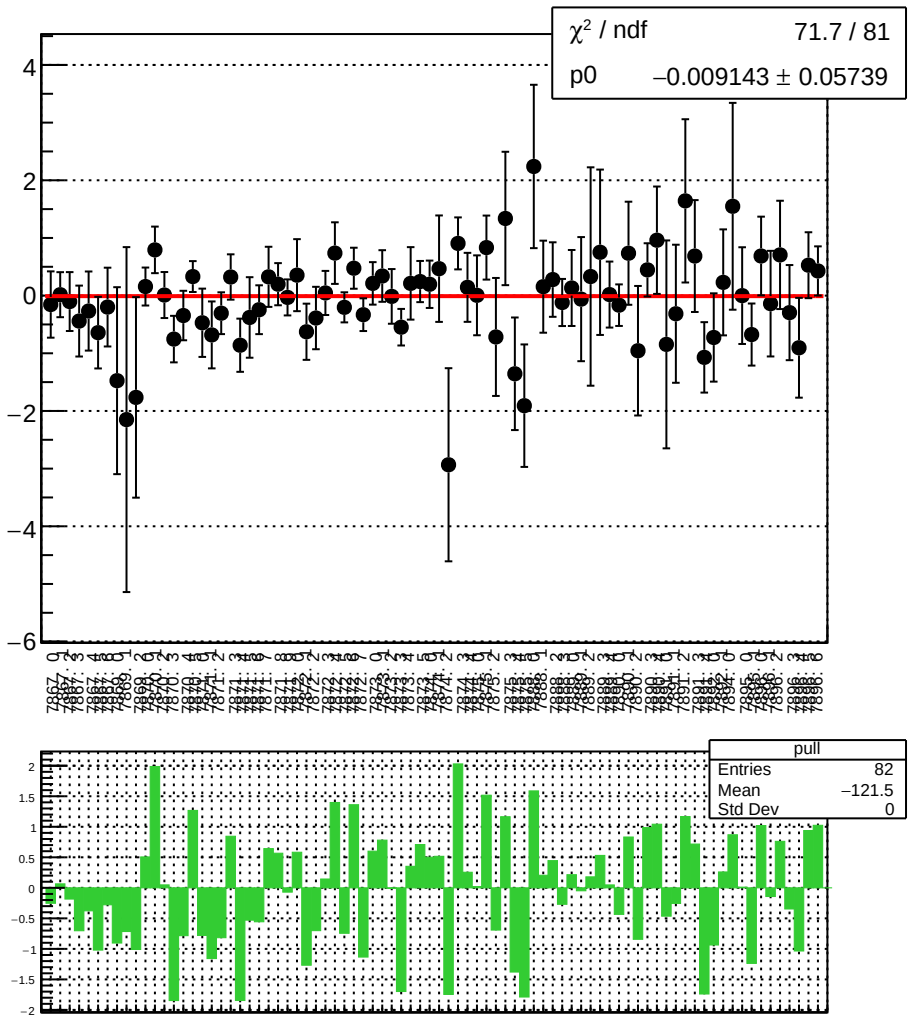

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.35 / 81
p0 −1.006e−13 ± 1.051e−13
pull
Entries 82
Mean 33.29
Std Dev 24.43

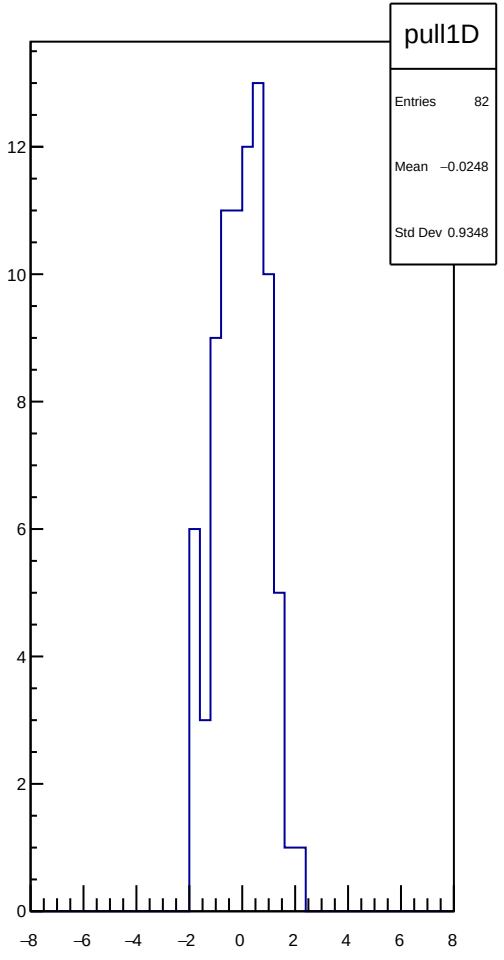

pull1D
Entries 82
Mean −0.1969
Std Dev 0.9826

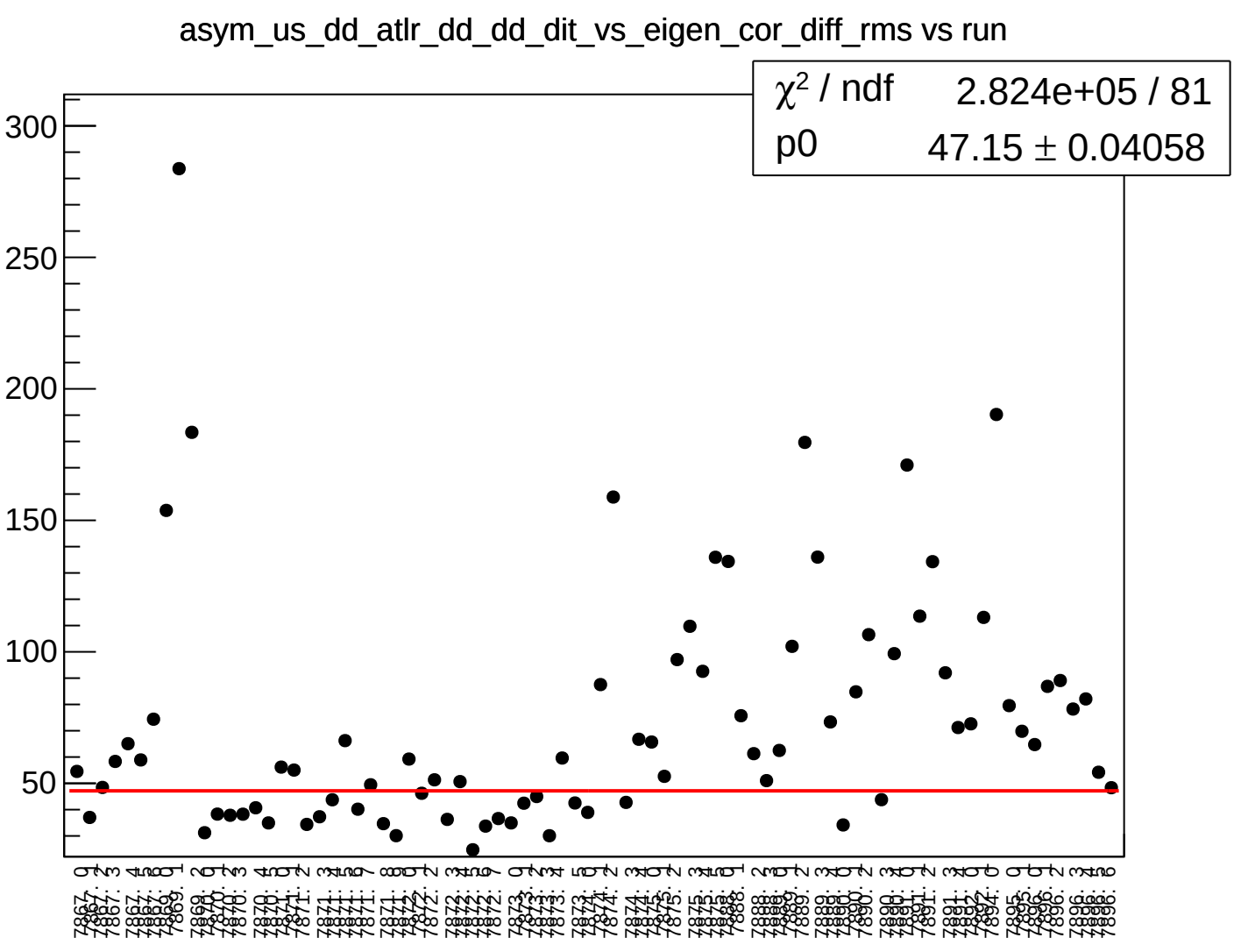

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.65e+05 / 81
p0 6.068e−11 ± 7.429e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

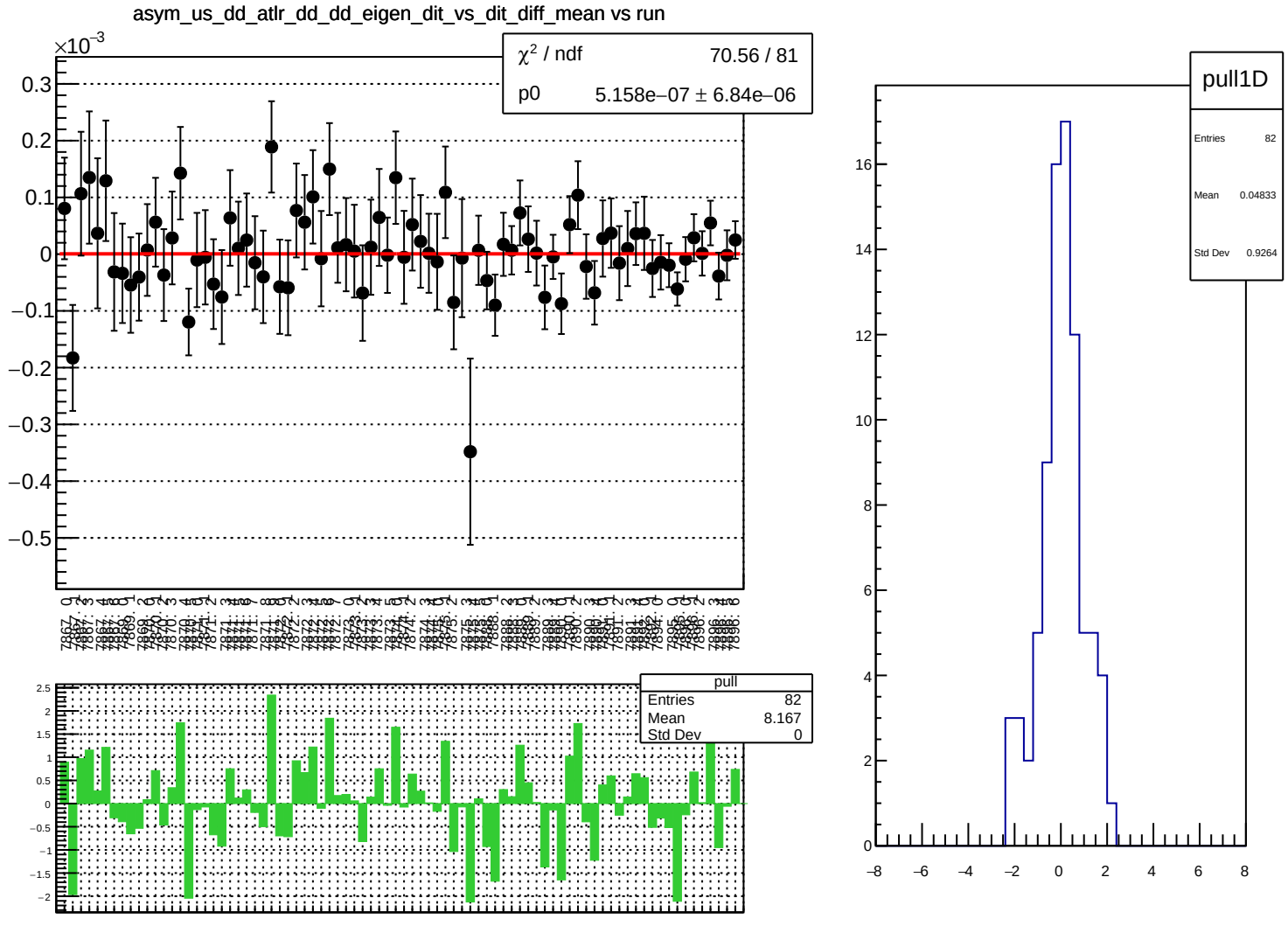

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.7 / 81
p0 −0.009143 ± 0.05739
pull
Entries 82
Mean −121.5
Std Dev 0
pull1D
Entries 82
Mean −0.0248
Std Dev 0.9348

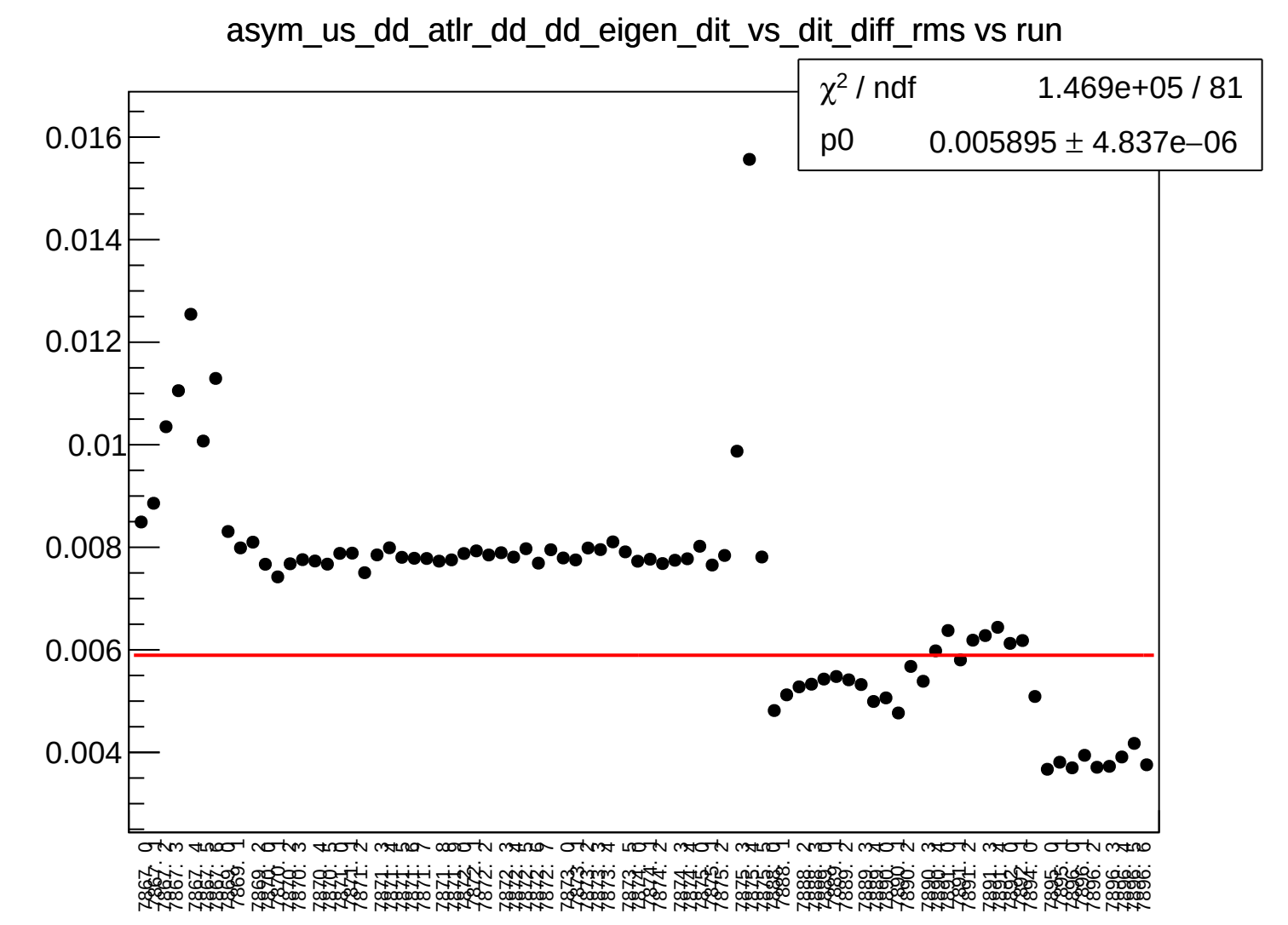

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 81
p0 47.15 ± 0.04058
300
250
200
150
100
50

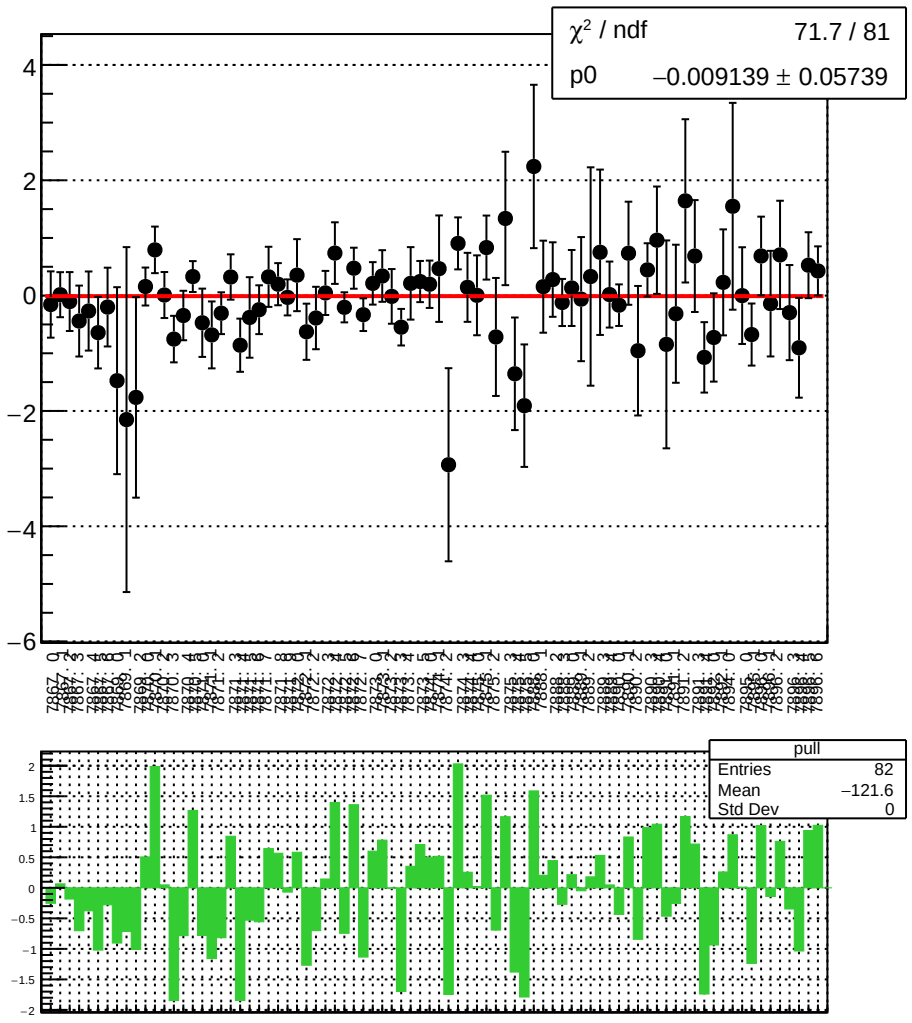

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.7 / 81
p0 −0.009143 ± 0.05739
pull
Entries 82
Mean −121.5
Std Dev 0

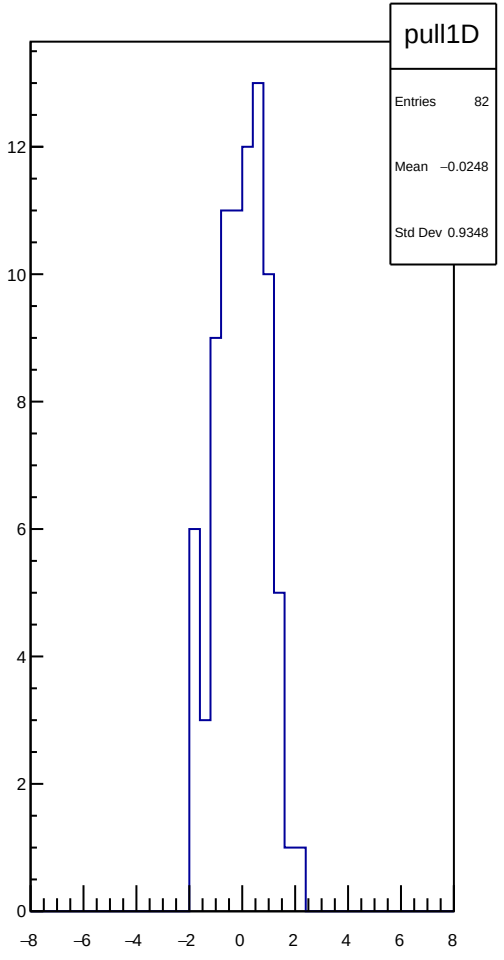

pull1D
Entries 82
Mean −0.0248
Std Dev 0.9348

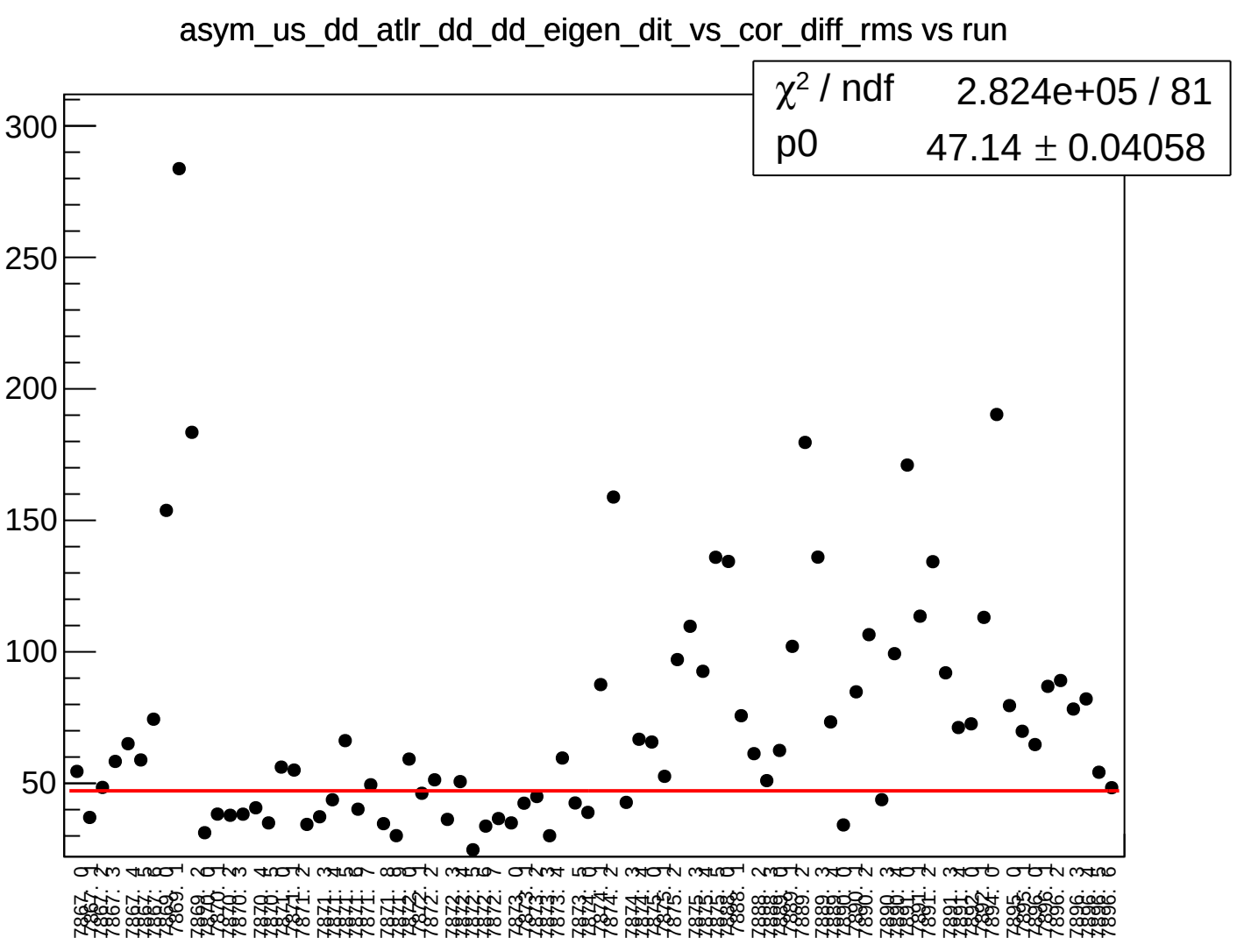

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 81
p0 47.15 ± 0.04058
300
250
200
150
100
50

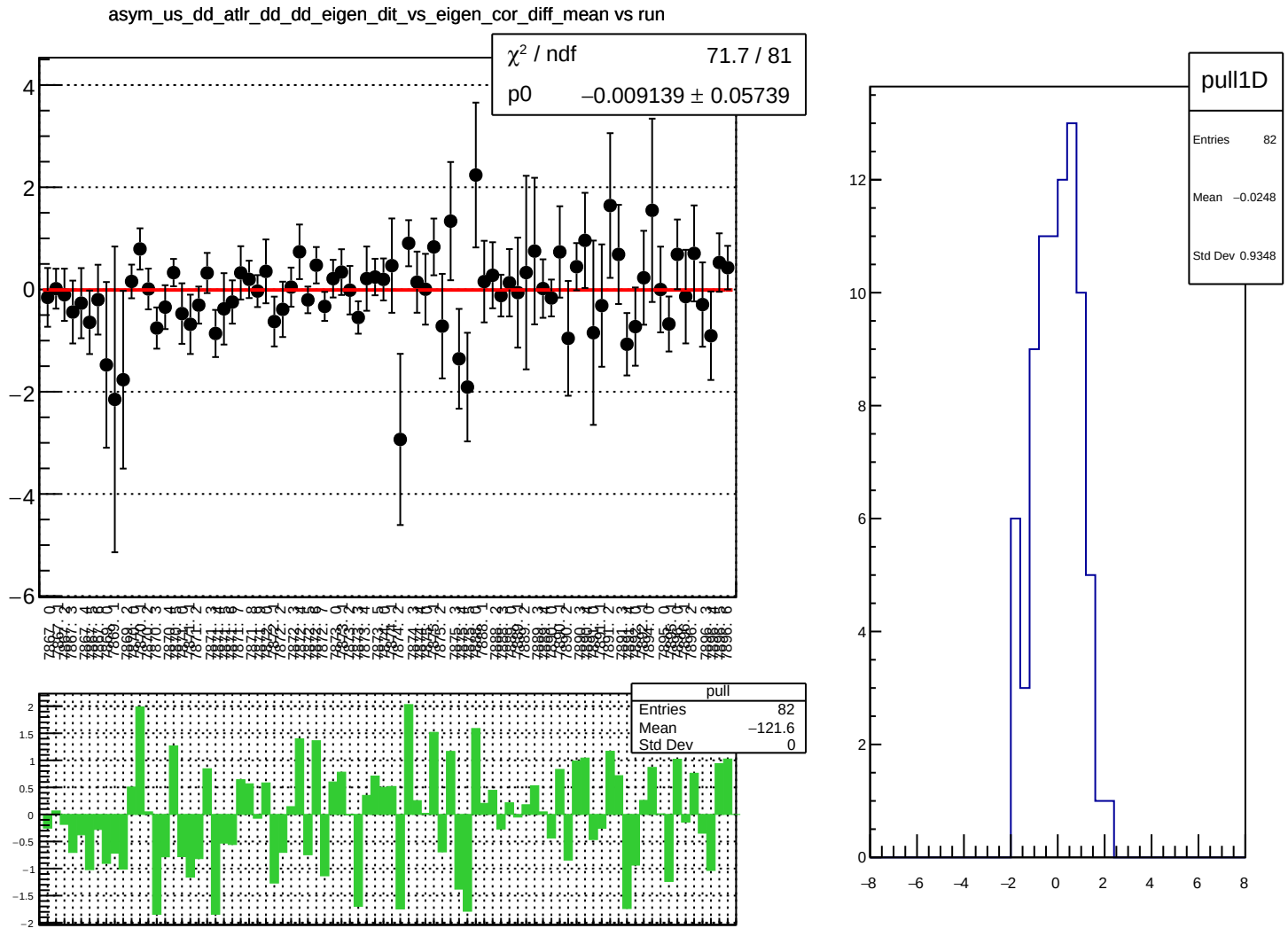

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.56 / 81
p0 5.158e−07 ± 6.84e−06
pull
Entries 82
Mean 8.167
Std Dev 0
pull1D
Entries 82
Mean 0.04833
Std Dev 0.9264

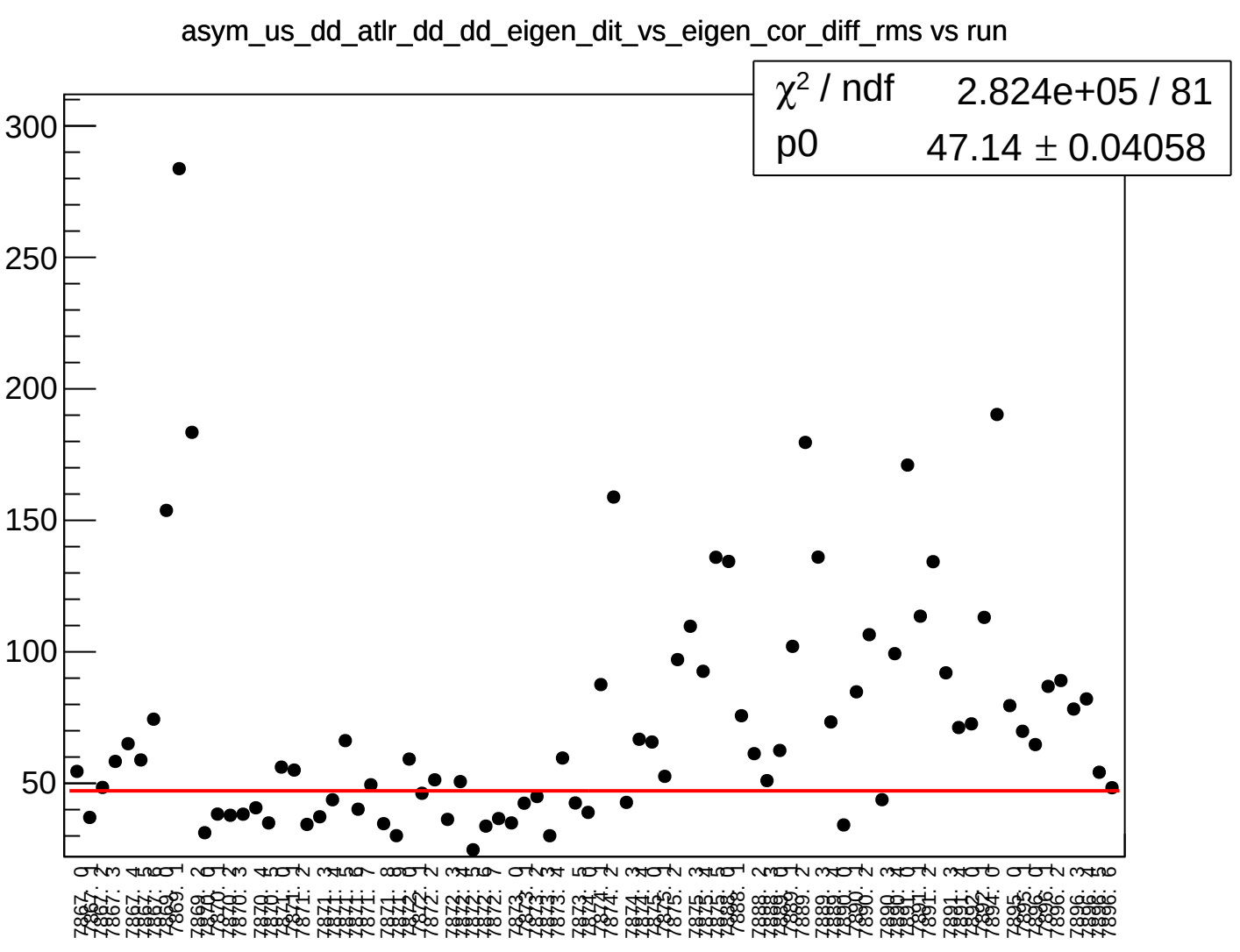

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.469e+05 / 81
p0 0.005895 ± 4.837e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

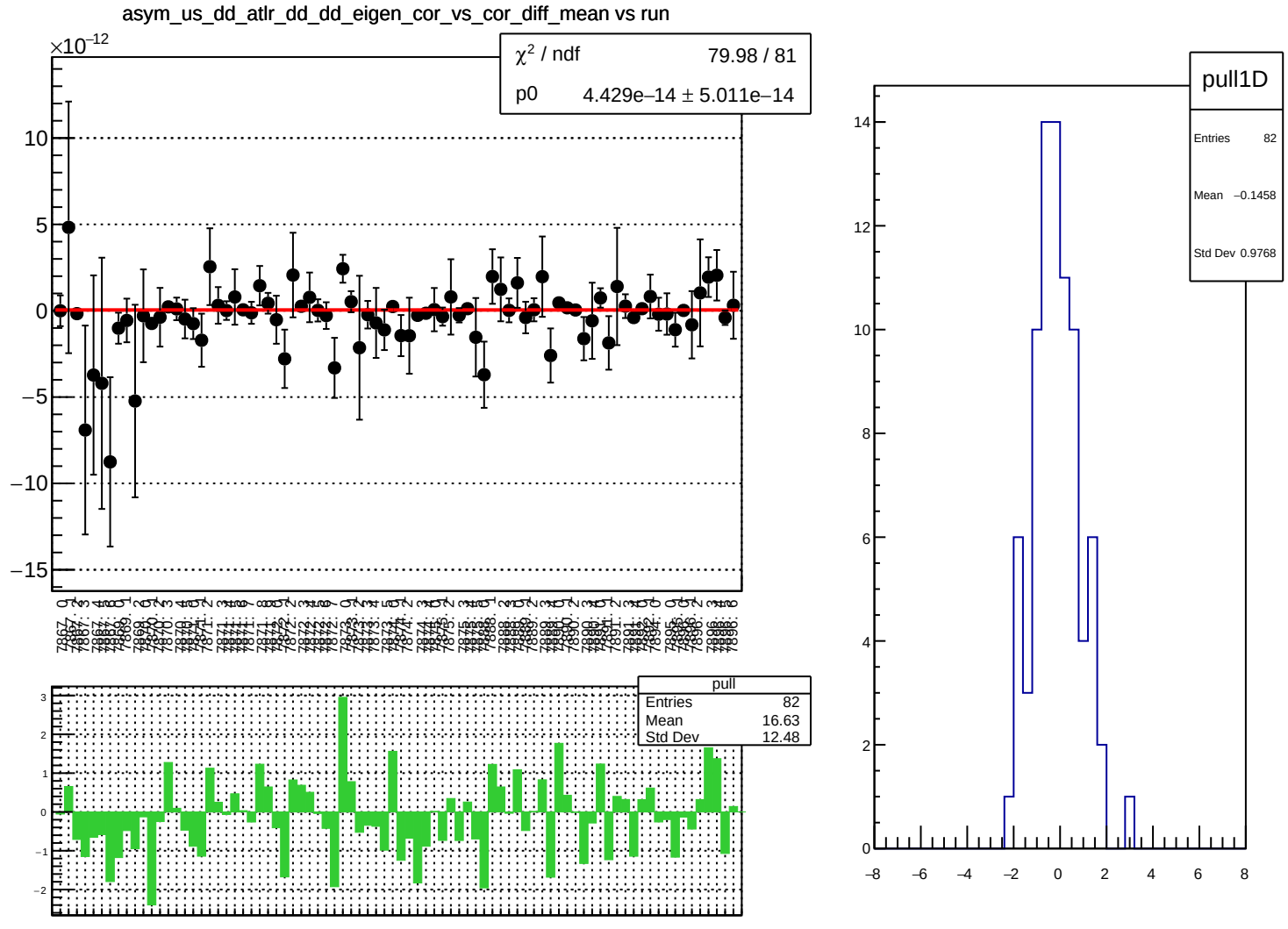

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.7 / 81
p0 −0.009139 ± 0.05739
pull
Entries 82
Mean −121.6
Std Dev 0

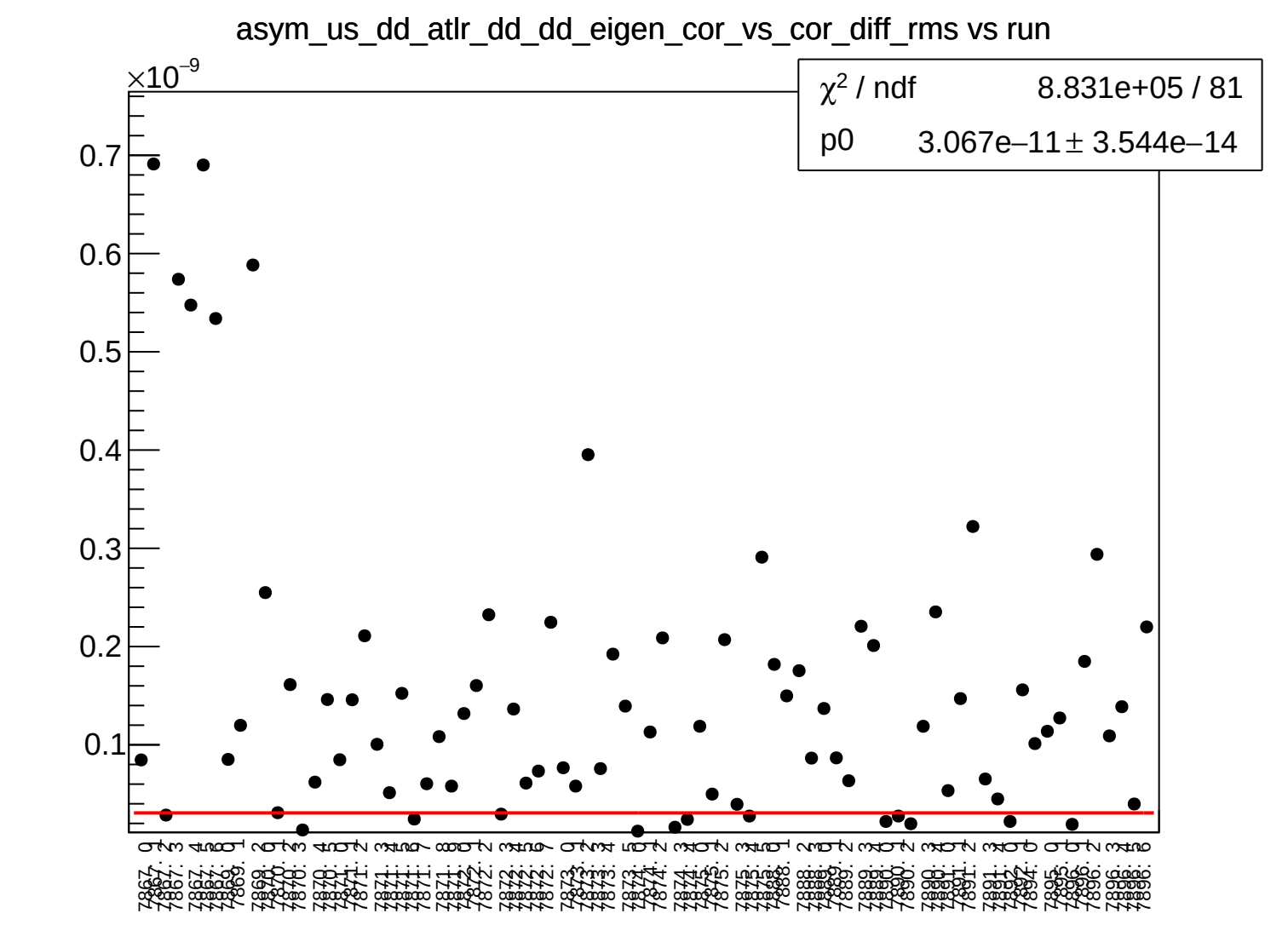

pull1D
Entries 82
Mean −0.0248
Std Dev 0.9348

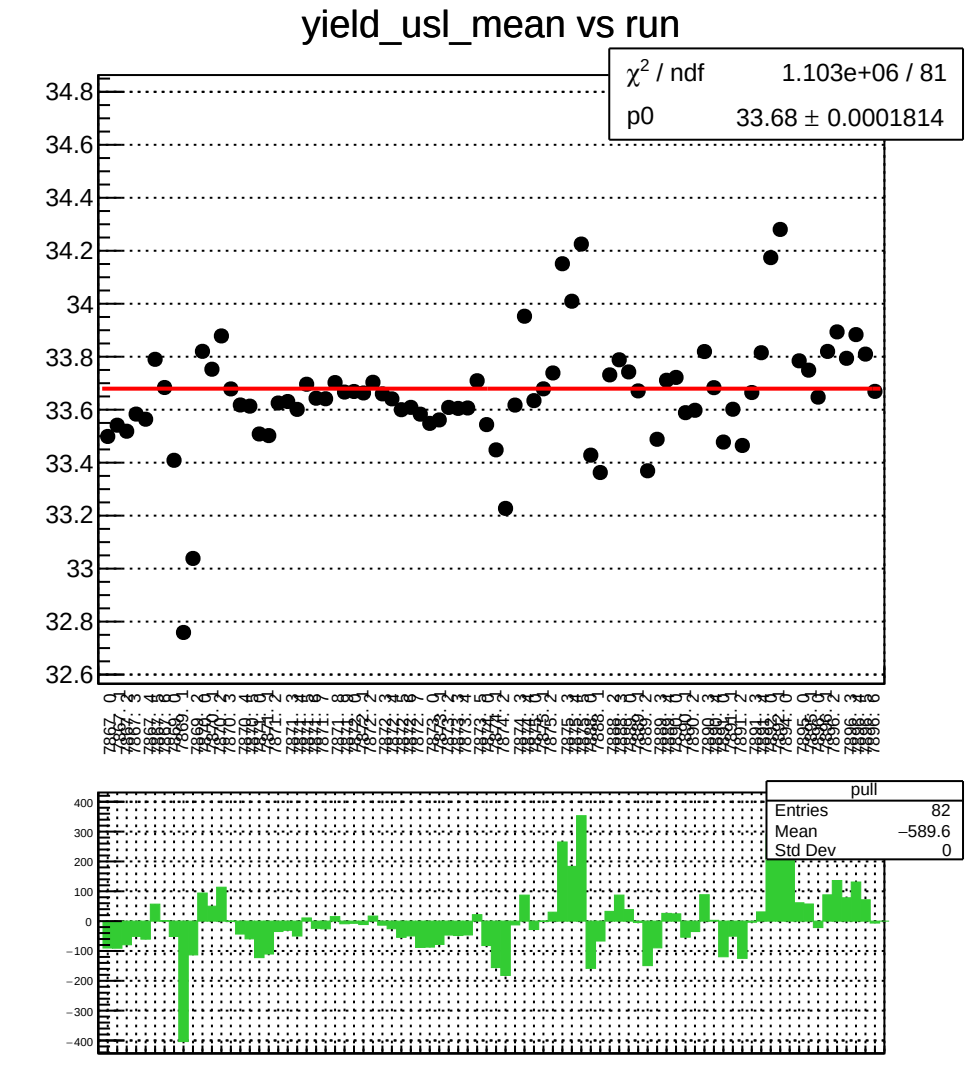

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 81
p0 47.14 ± 0.04058
300
250
200
150
100
50

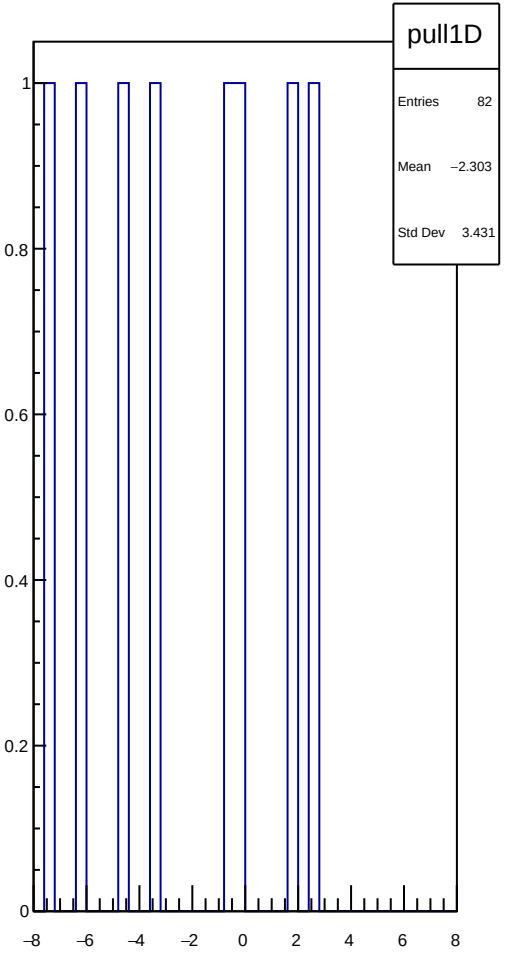

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.7 / 81
p0 −0.009139 ± 0.05739
pull
Entries 82
Mean −121.6
Std Dev 0
pull1D
Entries 82
Mean −0.0248
Std Dev 0.9348

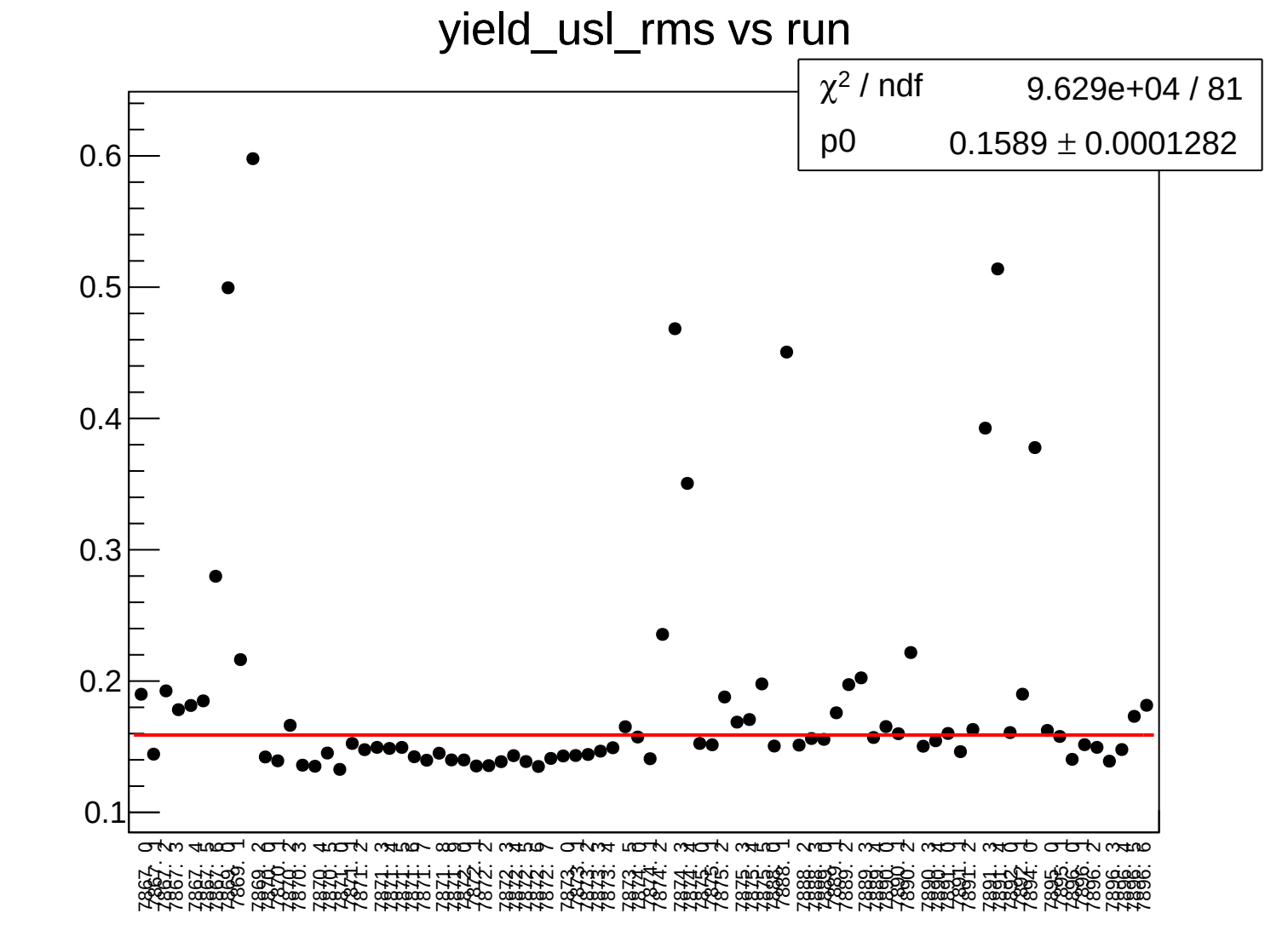

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 81
p0 47.14 ± 0.04058
300
250
200
150
100
50

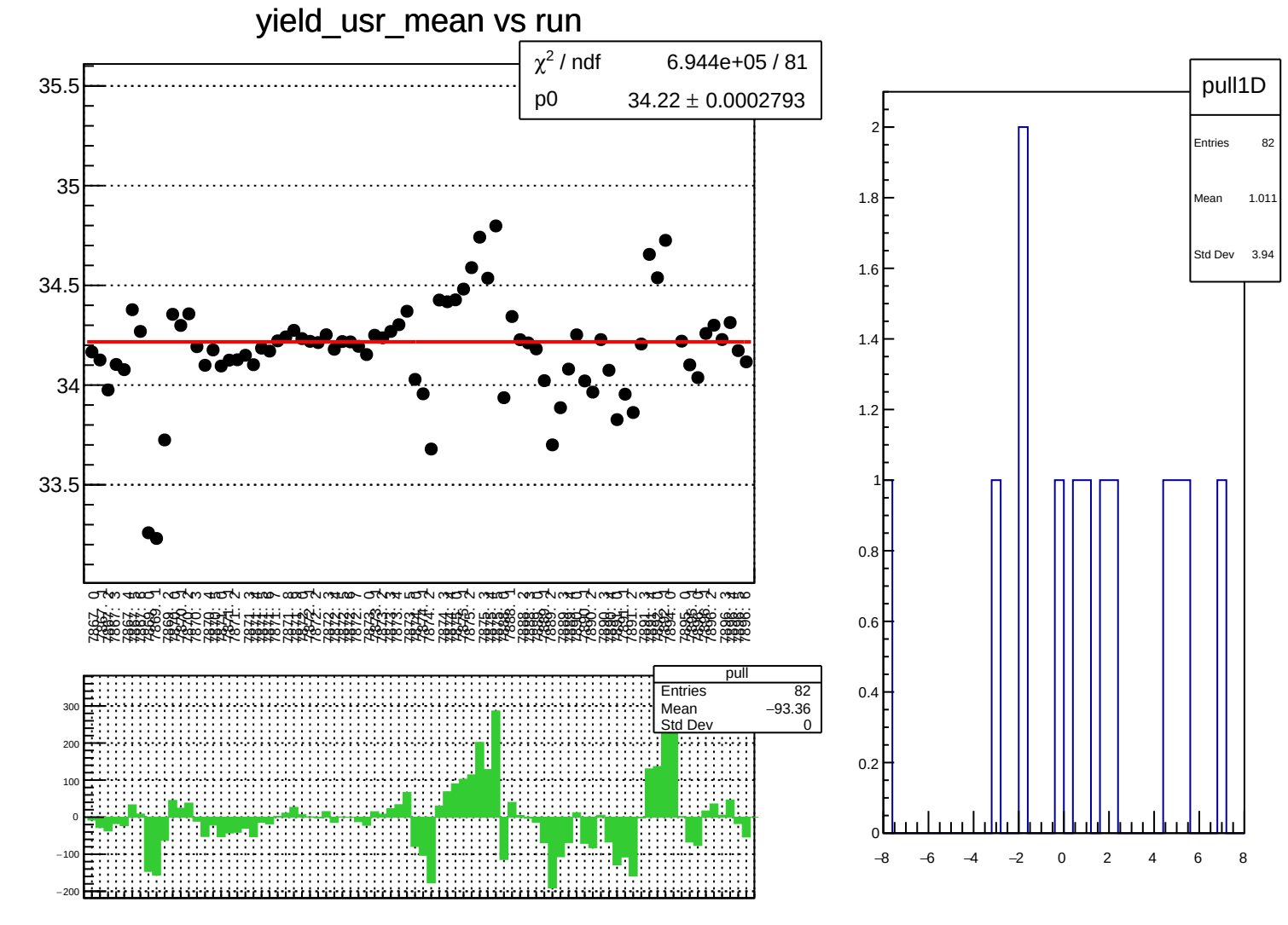

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.98 / 81
p0 4.429e−14 ± 5.011e−14
pull
Entries 82
Mean 16.63
Std Dev 12.48
pull1D
Entries 82
Mean −0.1458
Std Dev 0.9768

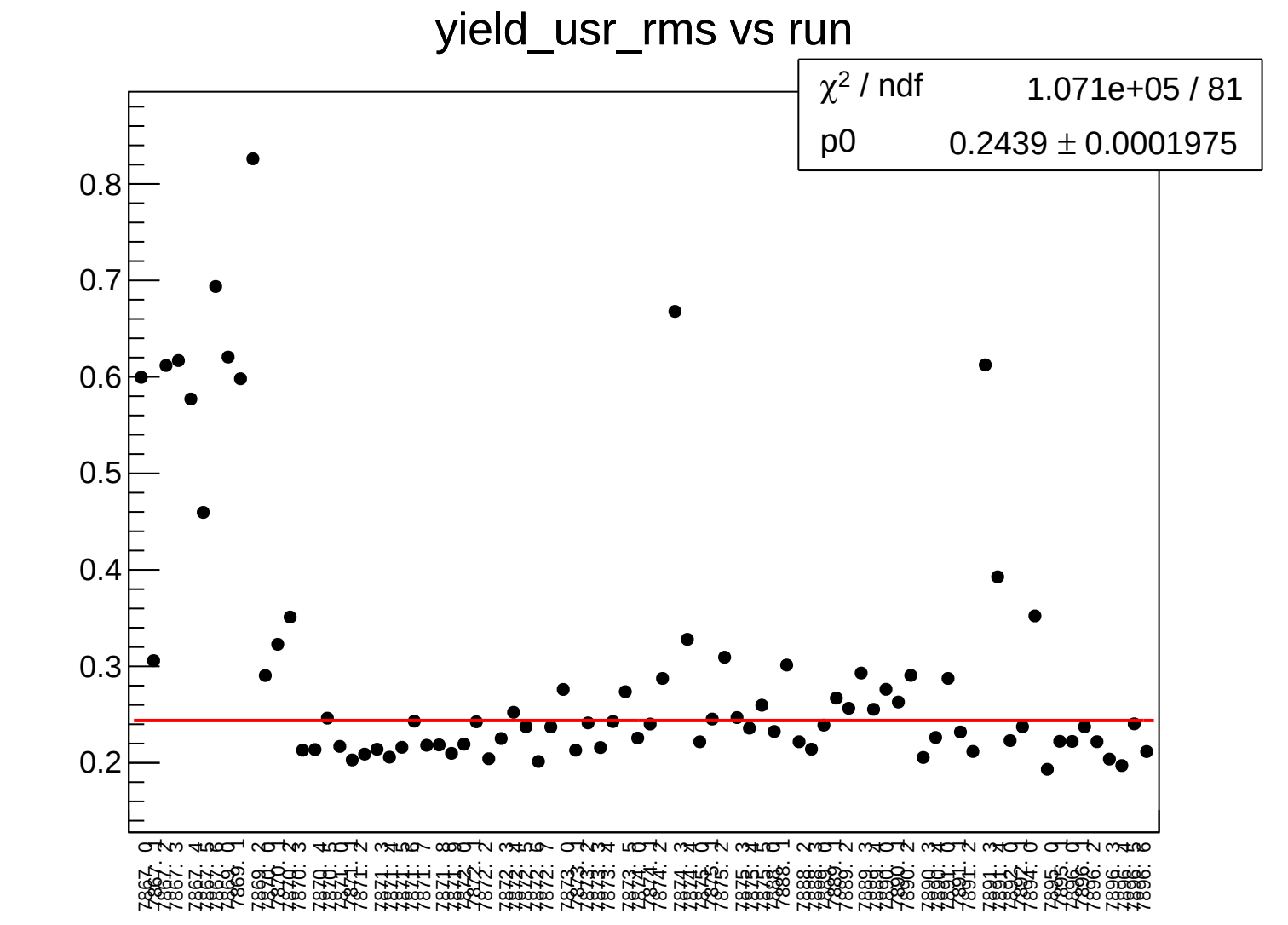

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.831e+05 / 81
p0 3.067e−11 ± 3.544e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

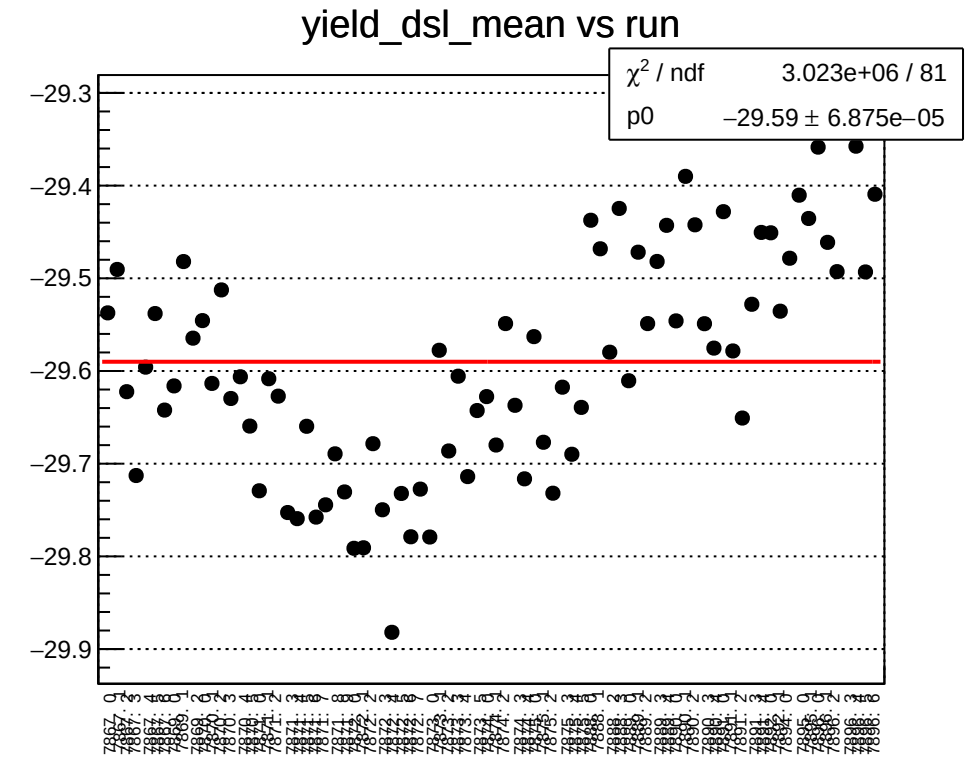

yield_usl_mean vs run
χ² / ndf 1.103e+06 / 81
p0 33.68 ± 0.0001814
pull
Entries 82
Mean −589.6
Std Dev 0

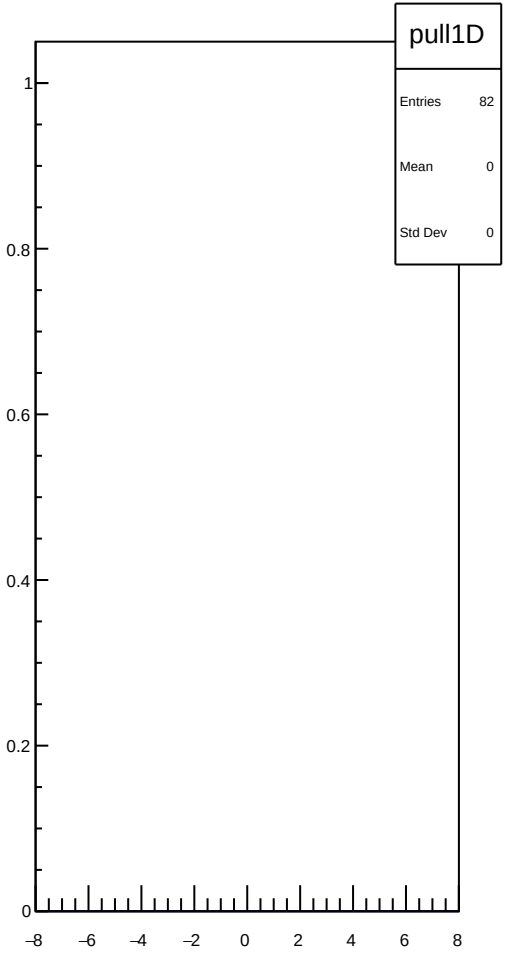

pull1D
Entries 82
Mean −2.303
Std Dev 3.431

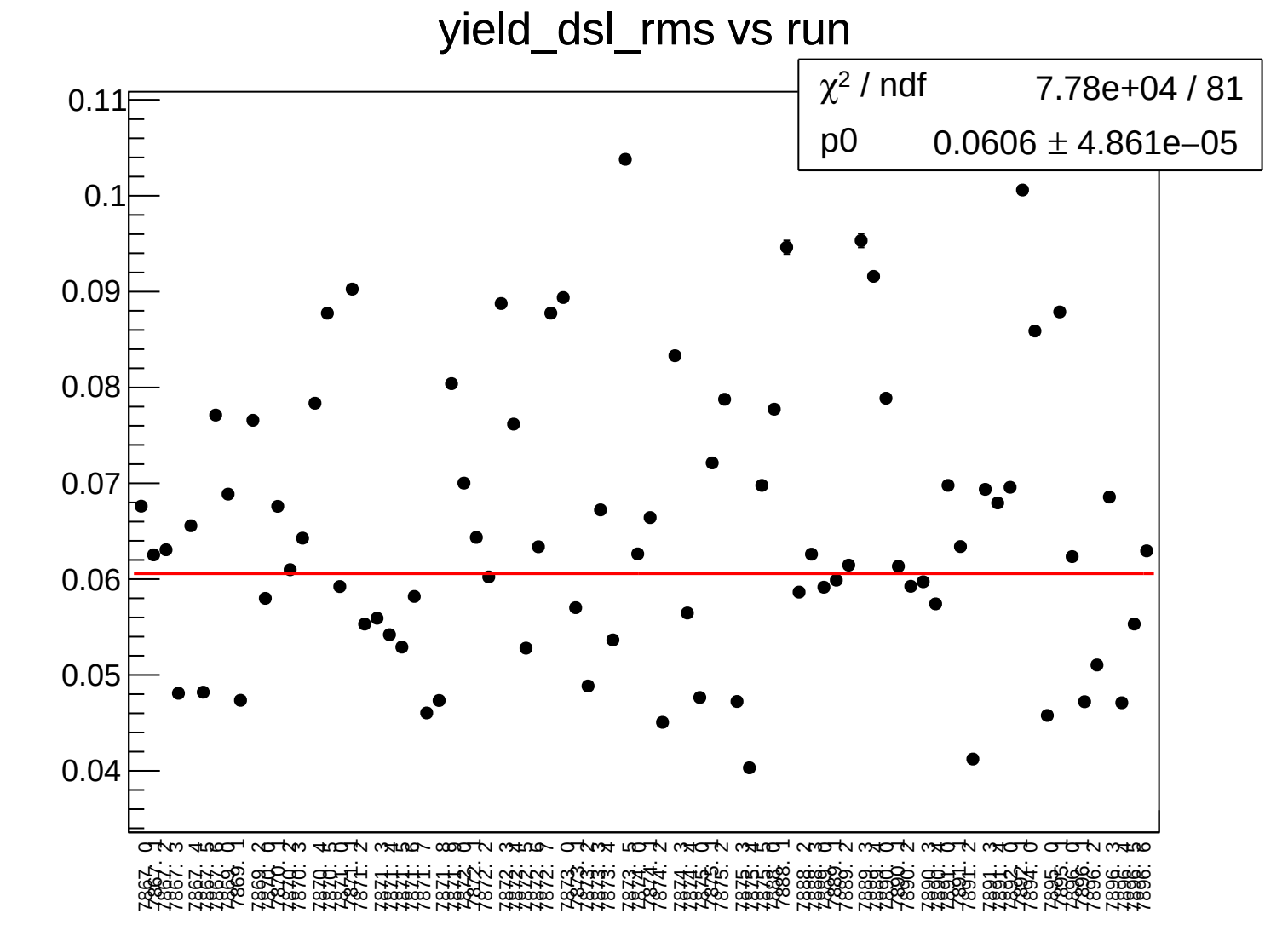

yield_usl_rms vs run
χ^2 / ndf 9.629e+04 / 81
p0 0.1589 ± 0.0001282
0.6
0.5
0.4
0.3
0.2
0.1

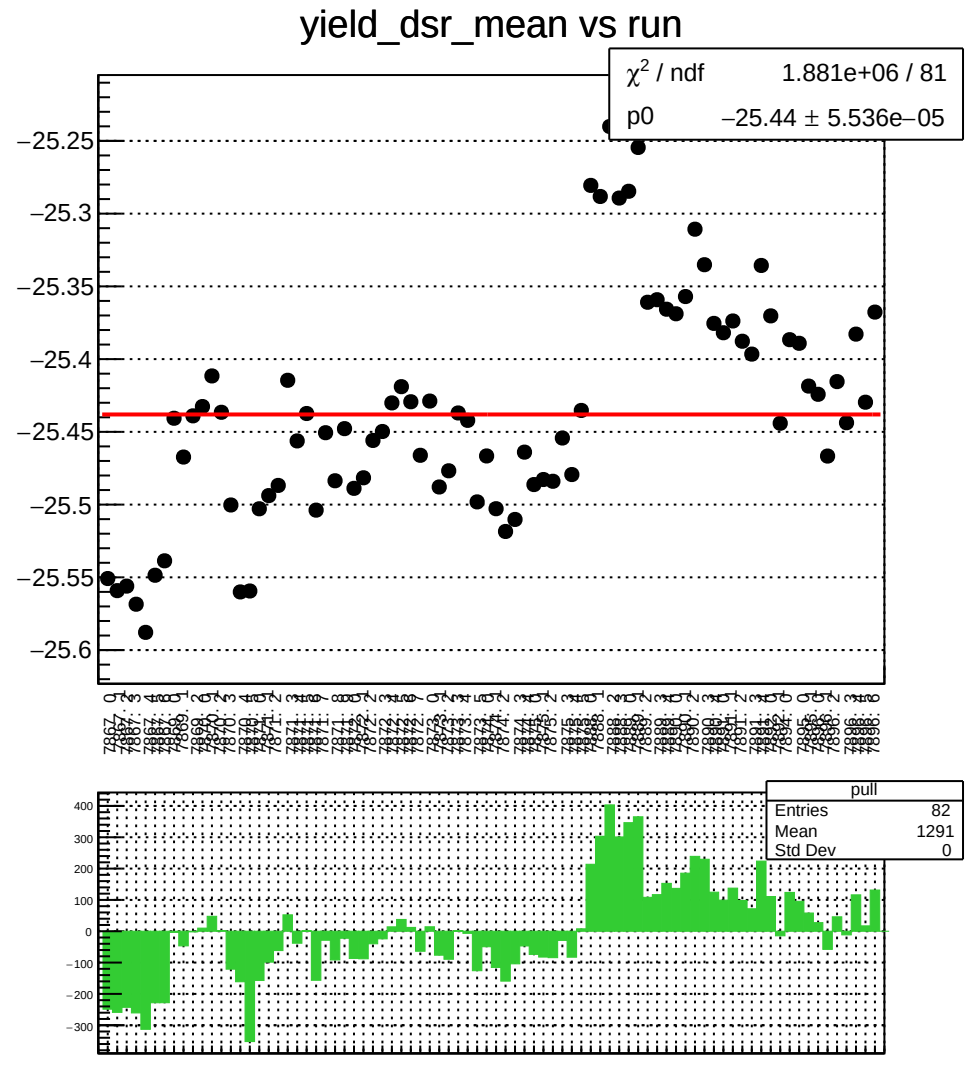

yield_usr_mean vs run
χ² / ndf 6.944e+05 / 81
p0 34.22 ± 0.0002793
35.5
35
34.5
34
33.5
pull
Entries 82
Mean −93.36
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 82
Mean 1.011
Std Dev 3.94
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

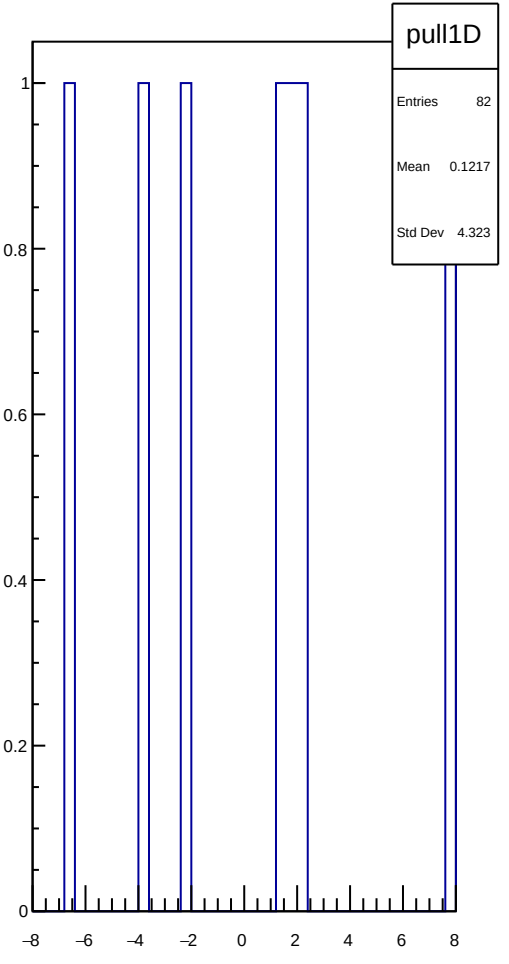

yield_usr_rms vs run
χ² / ndf 1.071e+05 / 81
p0 0.2439 ± 0.0001975
0.8
0.7
0.6
0.5
0.4
0.3
0.2

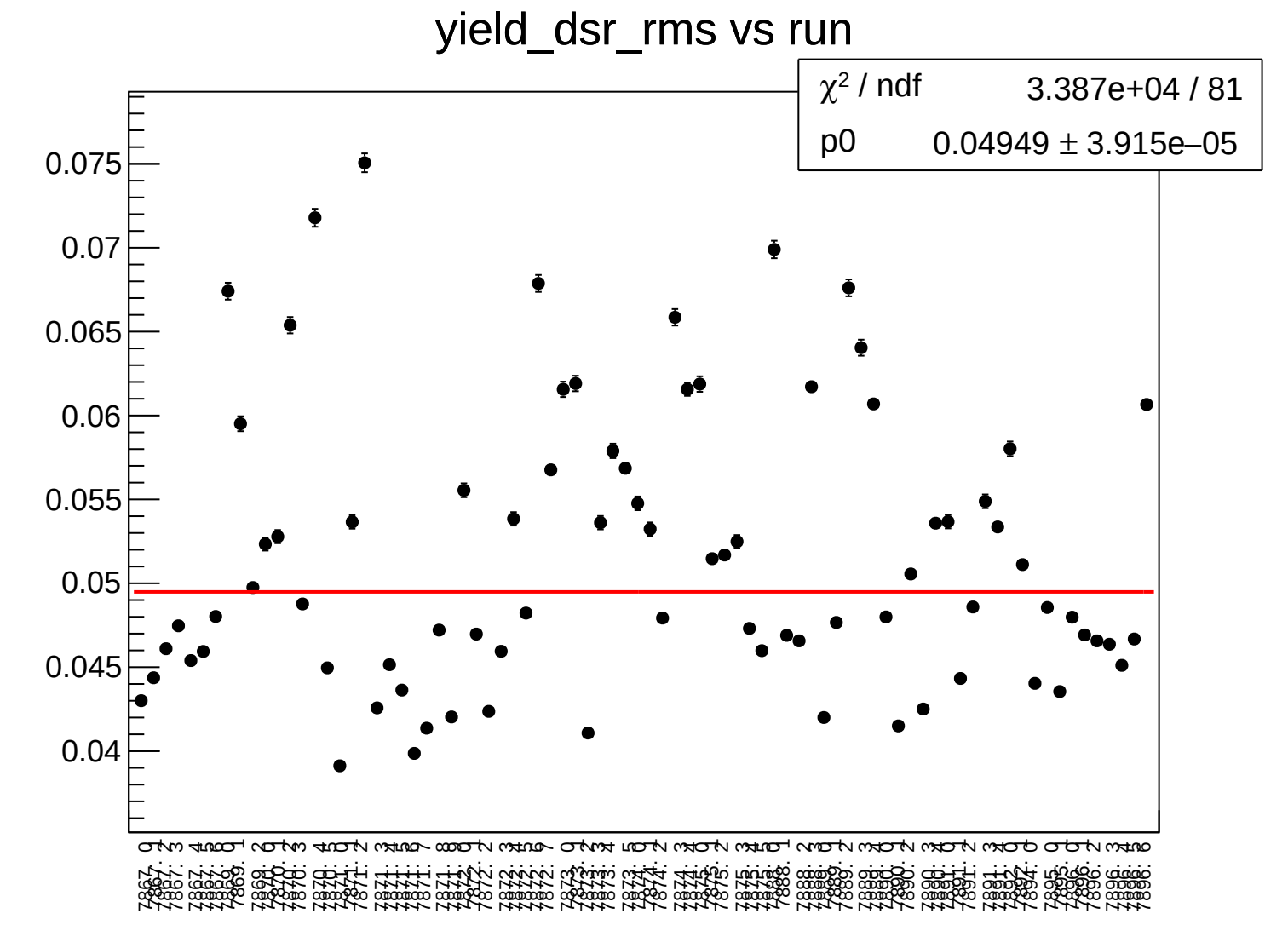

yield_dsl_mean vs run
χ² / ndf 3.023e+06 / 81
p0 −29.59 ± 6.875e−05
−29.3
−29.4
−29.5
−29.6
−29.7
−29.8
−29.9
pull
Entries 82
Mean −2584
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

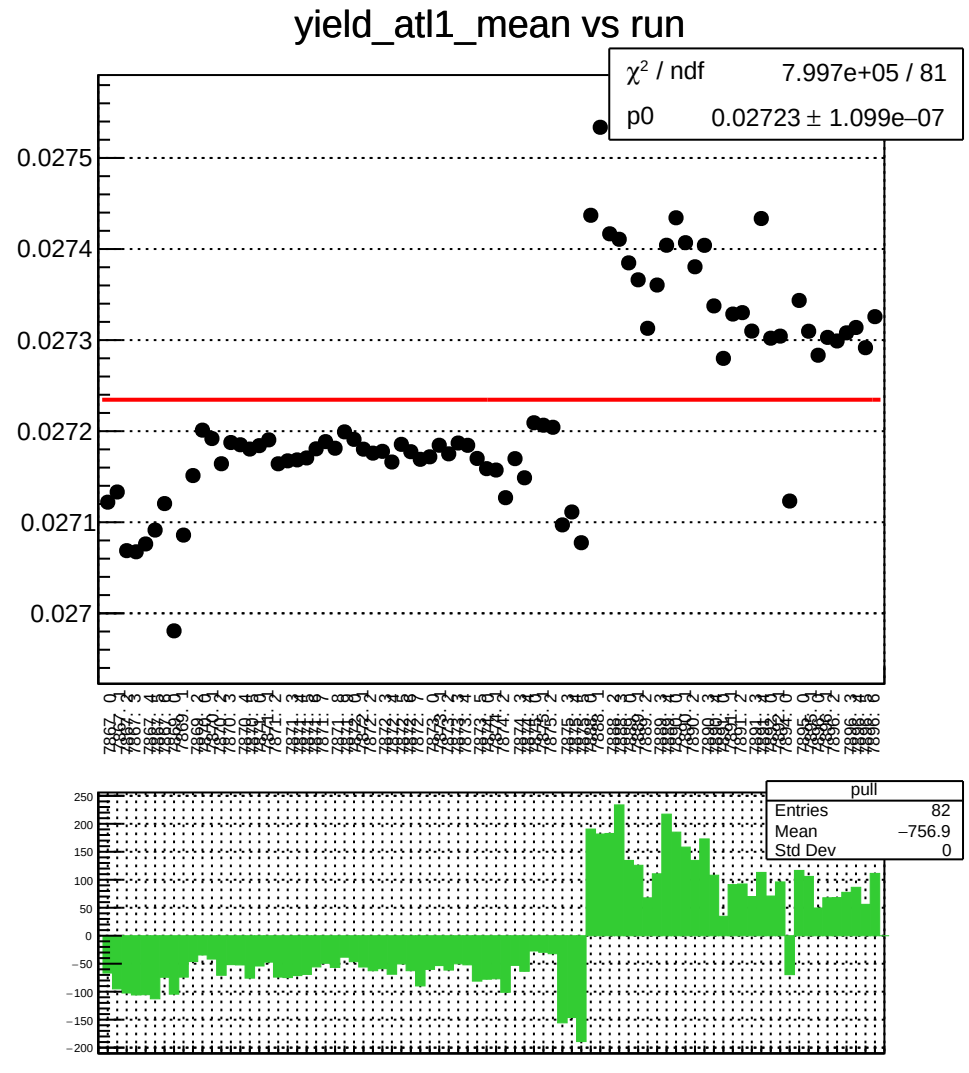

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

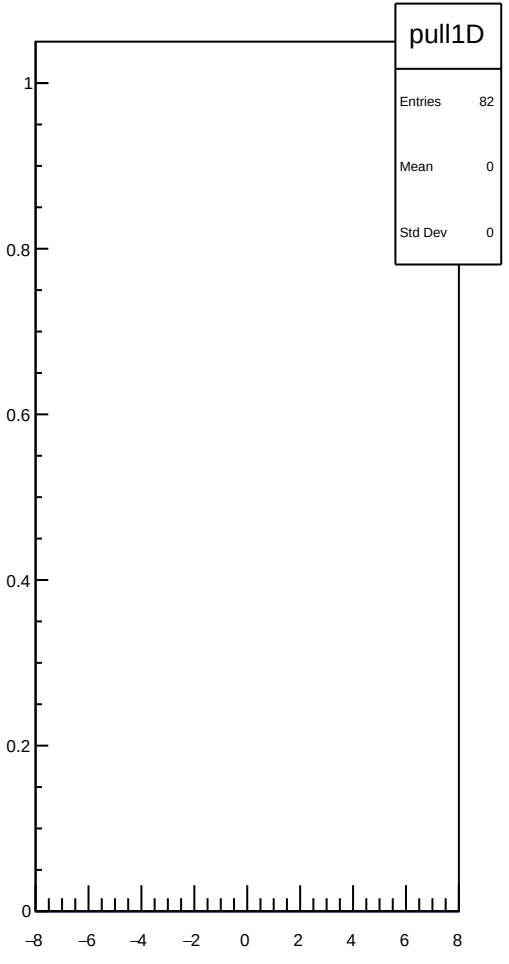

yield_dsl_rms vs run
χ² / ndf 7.78e+04 / 81
p0 0.0606 ± 4.861e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

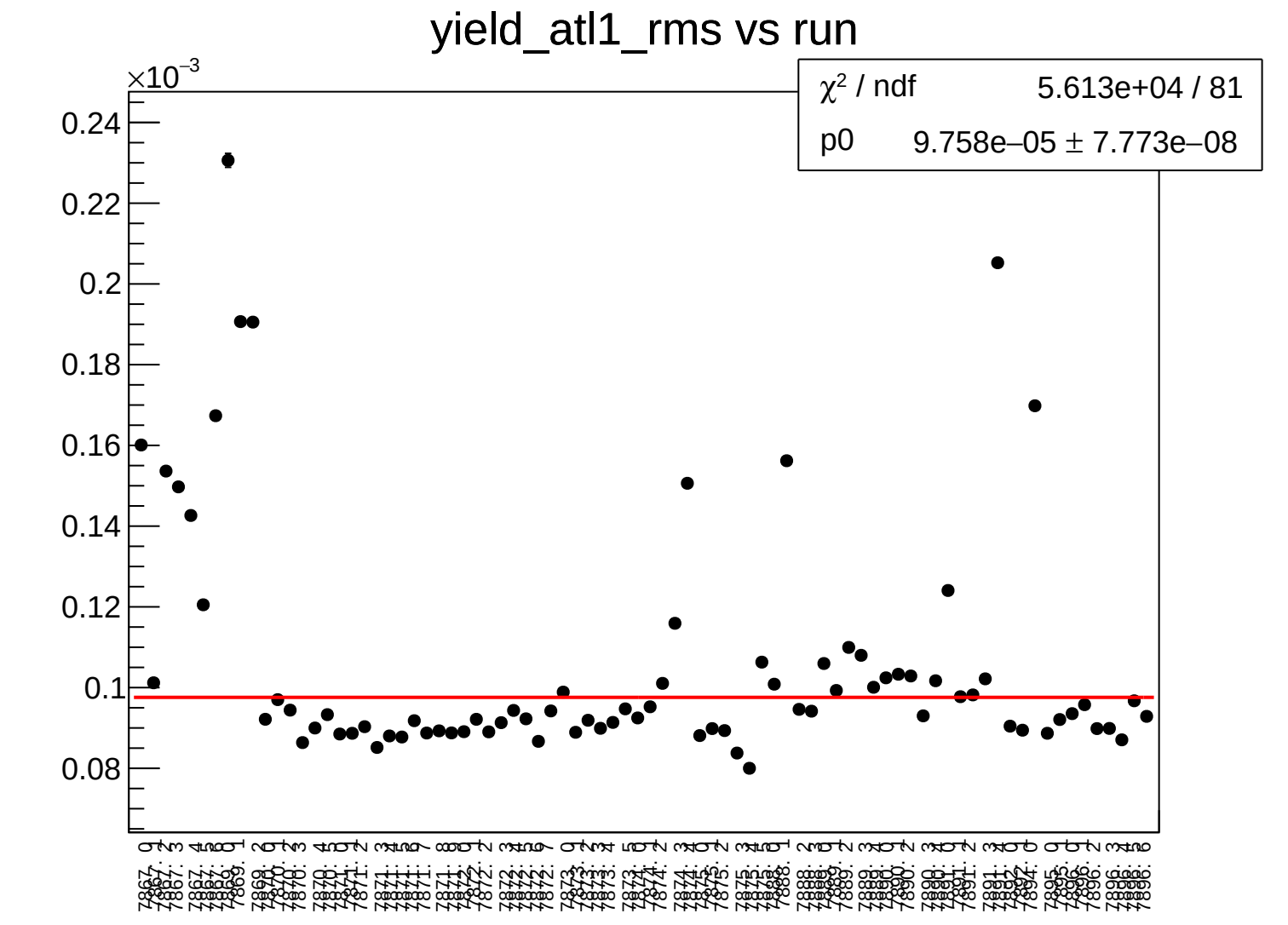

yield_dsr_mean vs run
χ² / ndf 1.881e+06 / 81
p0 −25.44 ± 5.536e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
pull
Entries 82
Mean 1291
Std Dev 0
400
300
200
100
0
−100
−200
−300

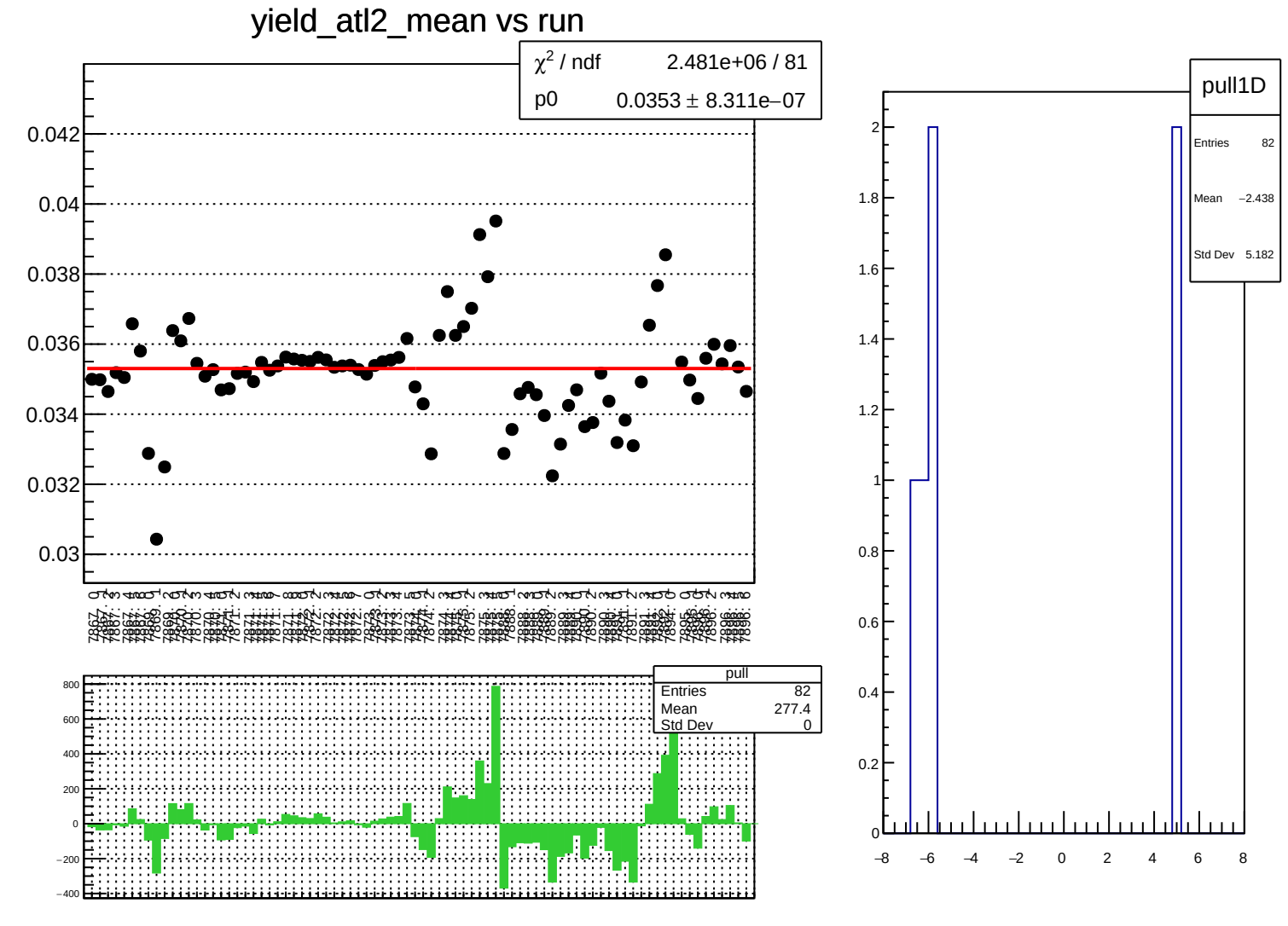

pull1D
Entries 82
Mean 0.1217
Std Dev 4.323
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

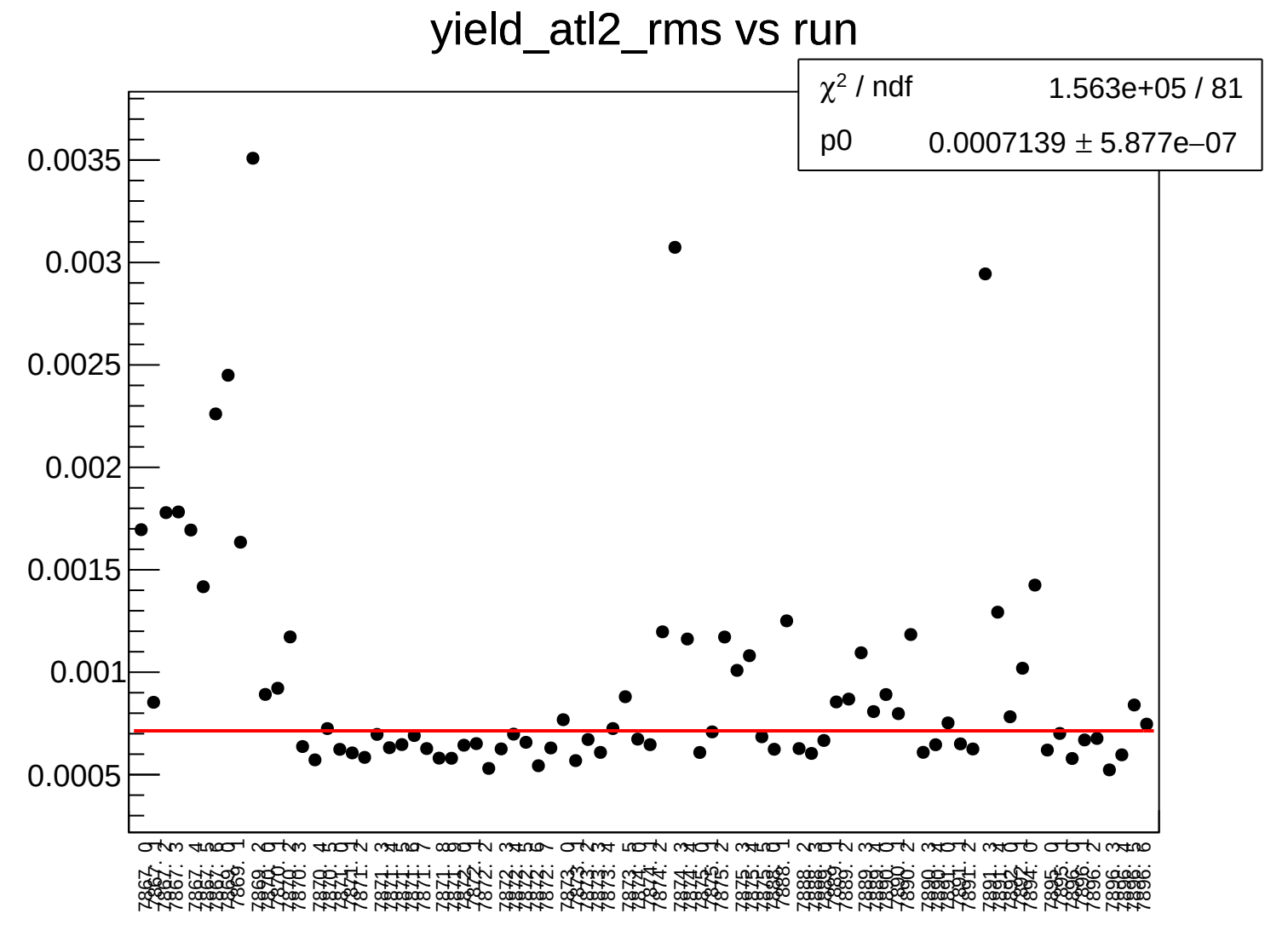

yield_dsr_rms vs run
χ² / ndf 3.387e+04 / 81
p0 0.04949 ± 3.915e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

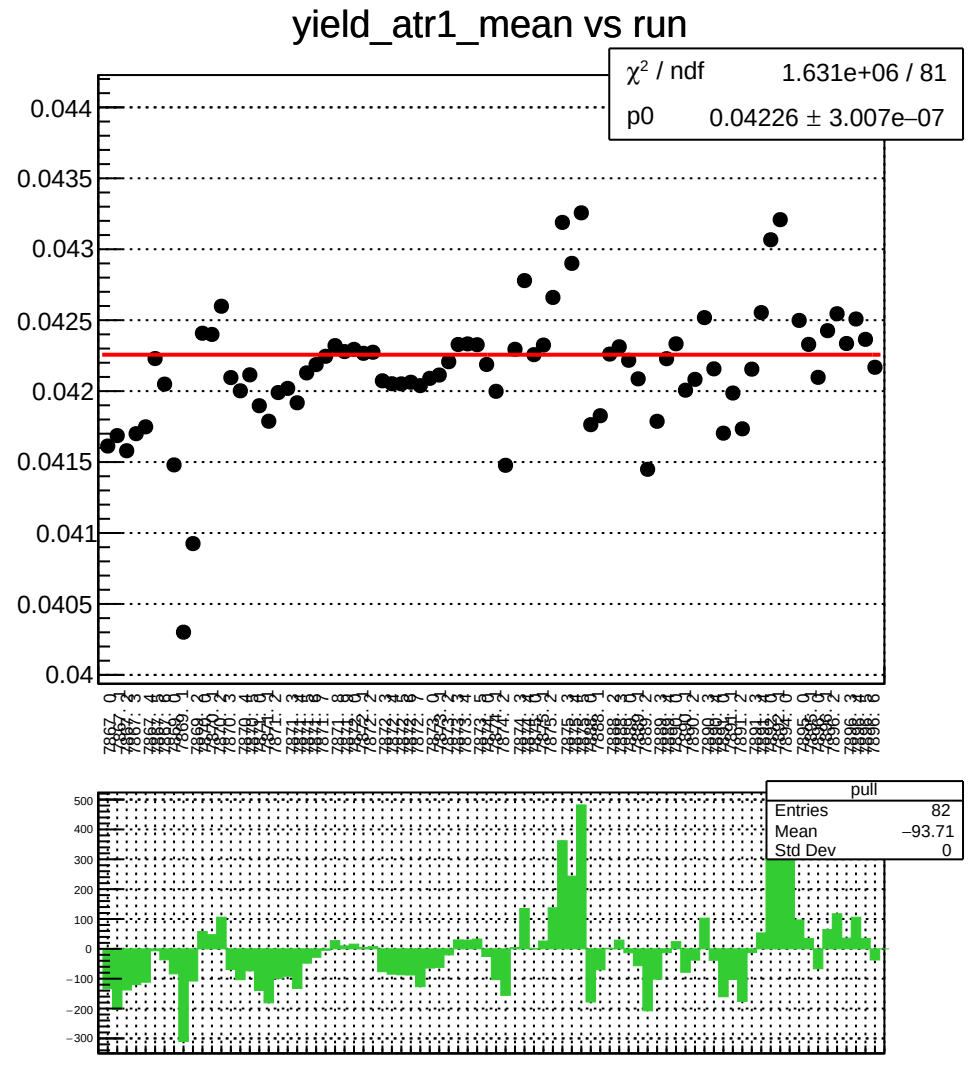

yield_atl1_mean vs run
χ² / ndf 7.997e+05 / 81
p0 0.02723 ± 1.099e−07
0.0275
0.0274
0.0273
0.0272
0.0271
0.027
pull
Entries 82
Mean −756.9
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

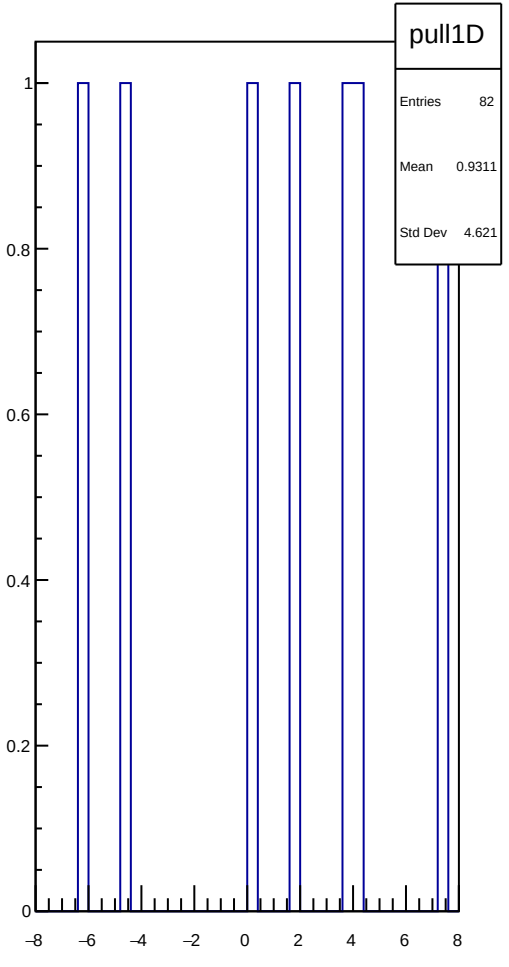

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

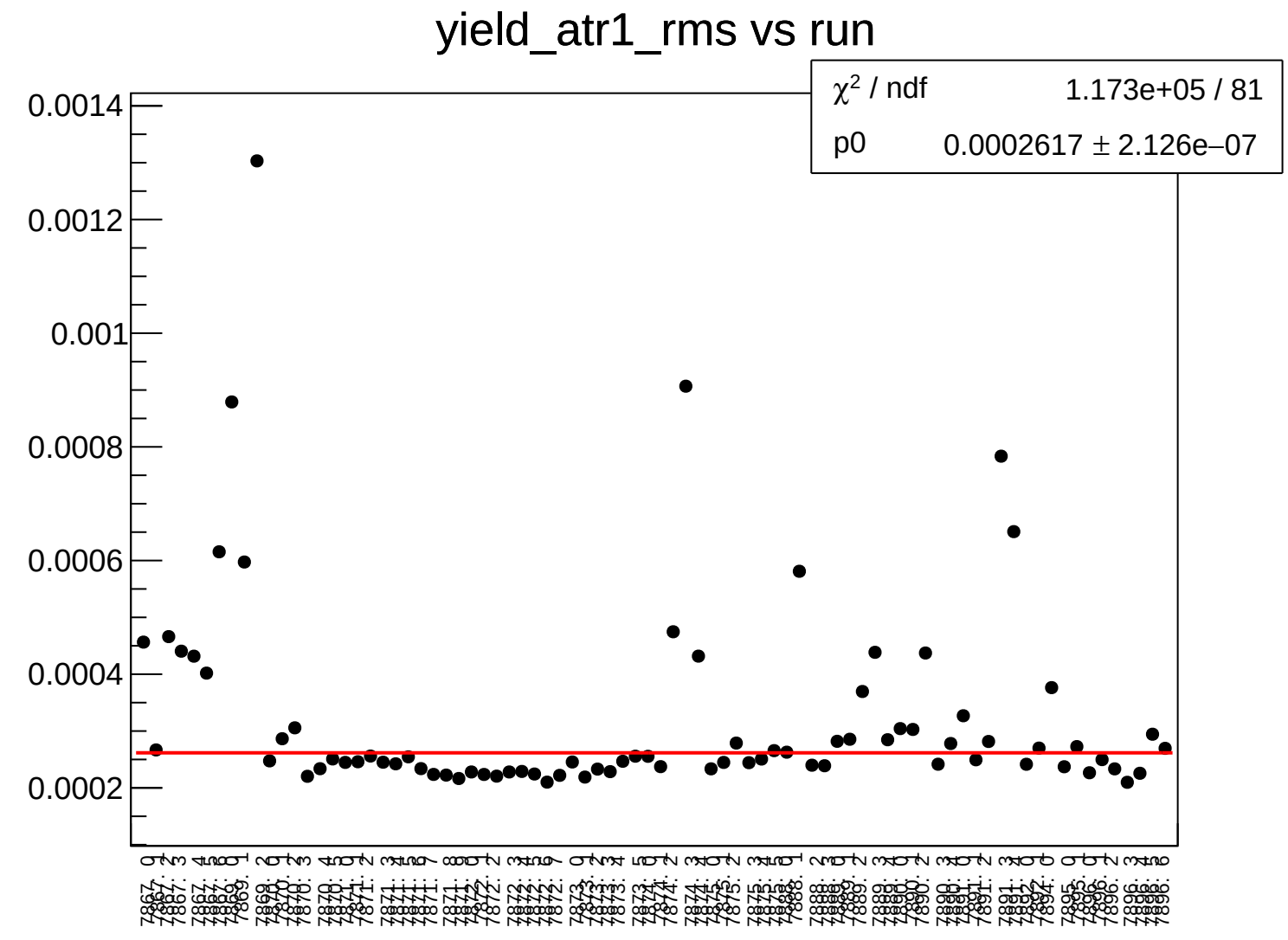

yield_atl1_rms vs run
×10⁻³
χ² / ndf 5.613e+04 / 81
p0 9.758e−05 ± 7.773e−08
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

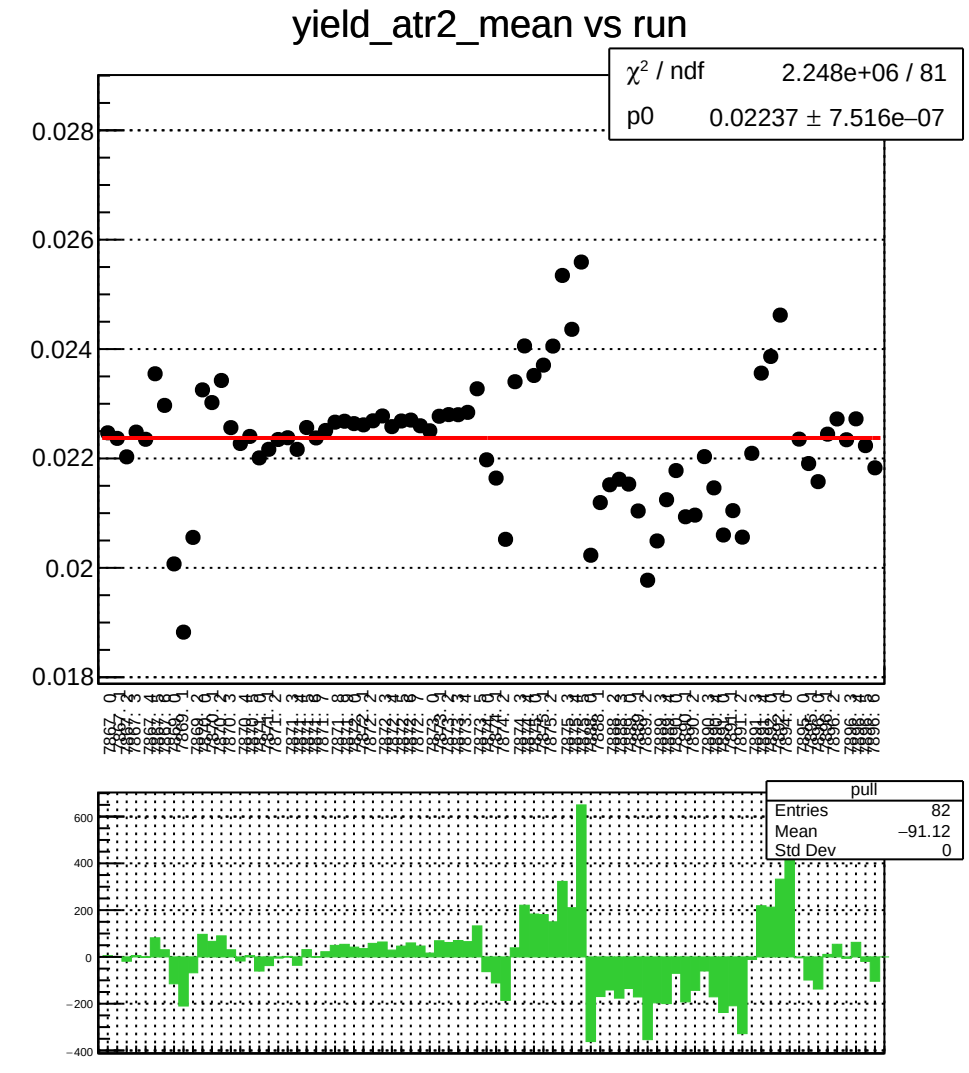

yield_atl2_mean vs run
χ² / ndf 2.481e+06 / 81
p0 0.0353 ± 8.311e−07
0.042
0.04
0.038
0.036
0.034
0.032
0.03
pull
Entries 82
Mean 277.4
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 82
Mean −2.438
Std Dev 5.182
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

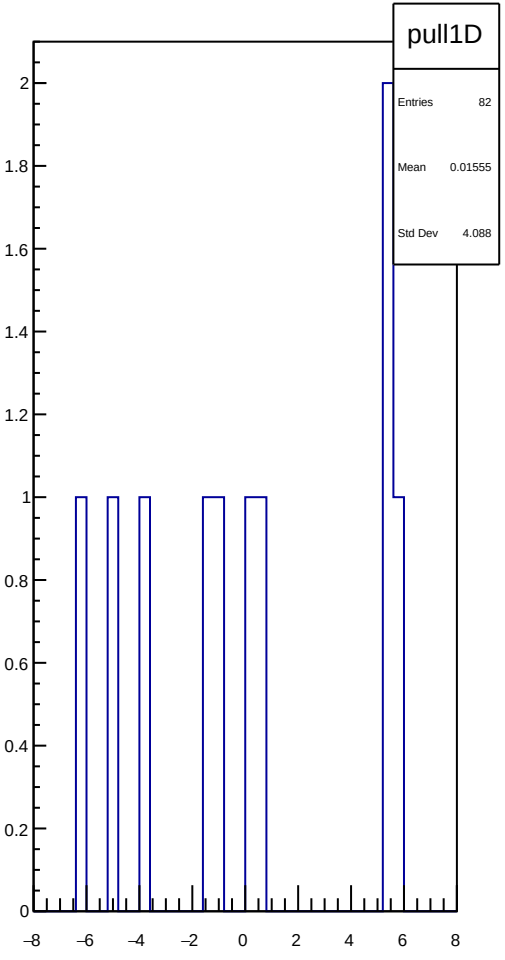

yield_atl2_rms vs run
χ² / ndf 1.563e+05 / 81
p0 0.0007139 ± 5.877e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

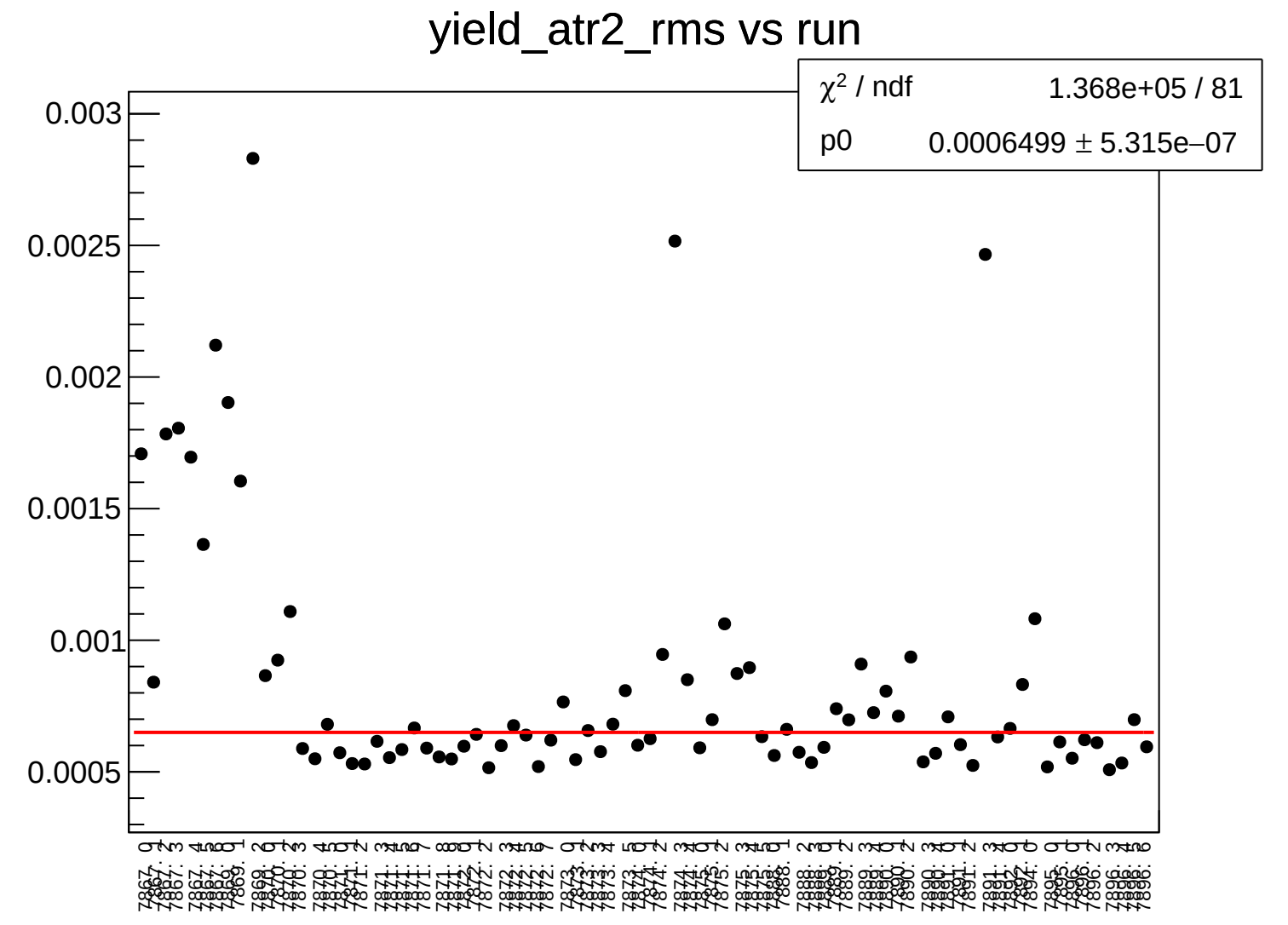

yield_atr1_mean vs run
χ² / ndf 1.631e+06 / 81
p0 0.04226 ± 3.007e−07
0.044
0.0435
0.043
0.0425
0.042
0.0415
0.041
0.0405
0.04
pull
Entries 82
Mean −93.71
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

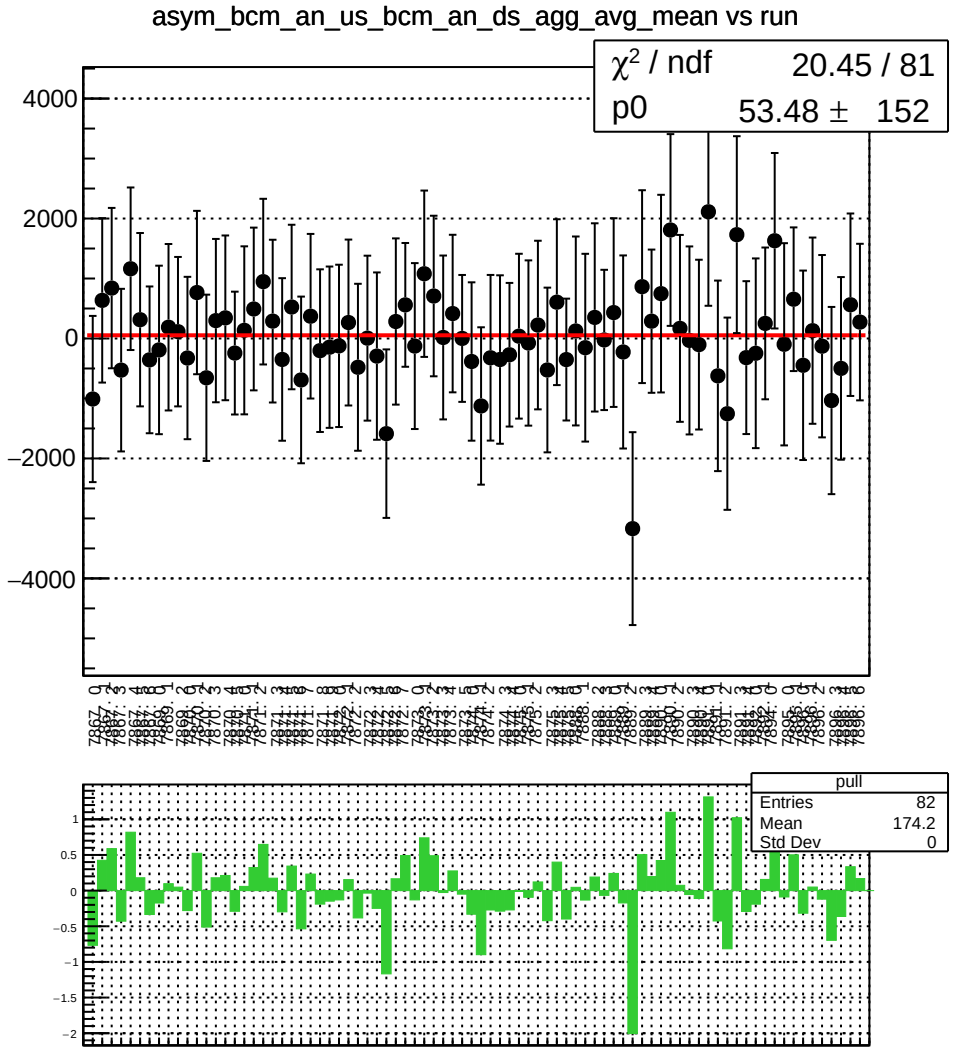

pull1D
Entries 82
Mean 0.9311
Std Dev 4.621
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

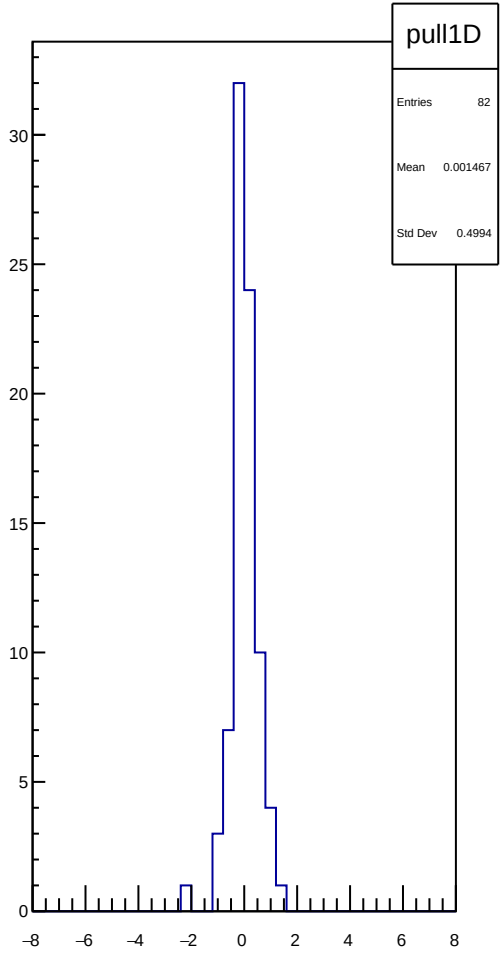

yield_atr1_rms vs run
χ² / ndf 1.173e+05 / 81
p0 0.0002617 ± 2.126e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

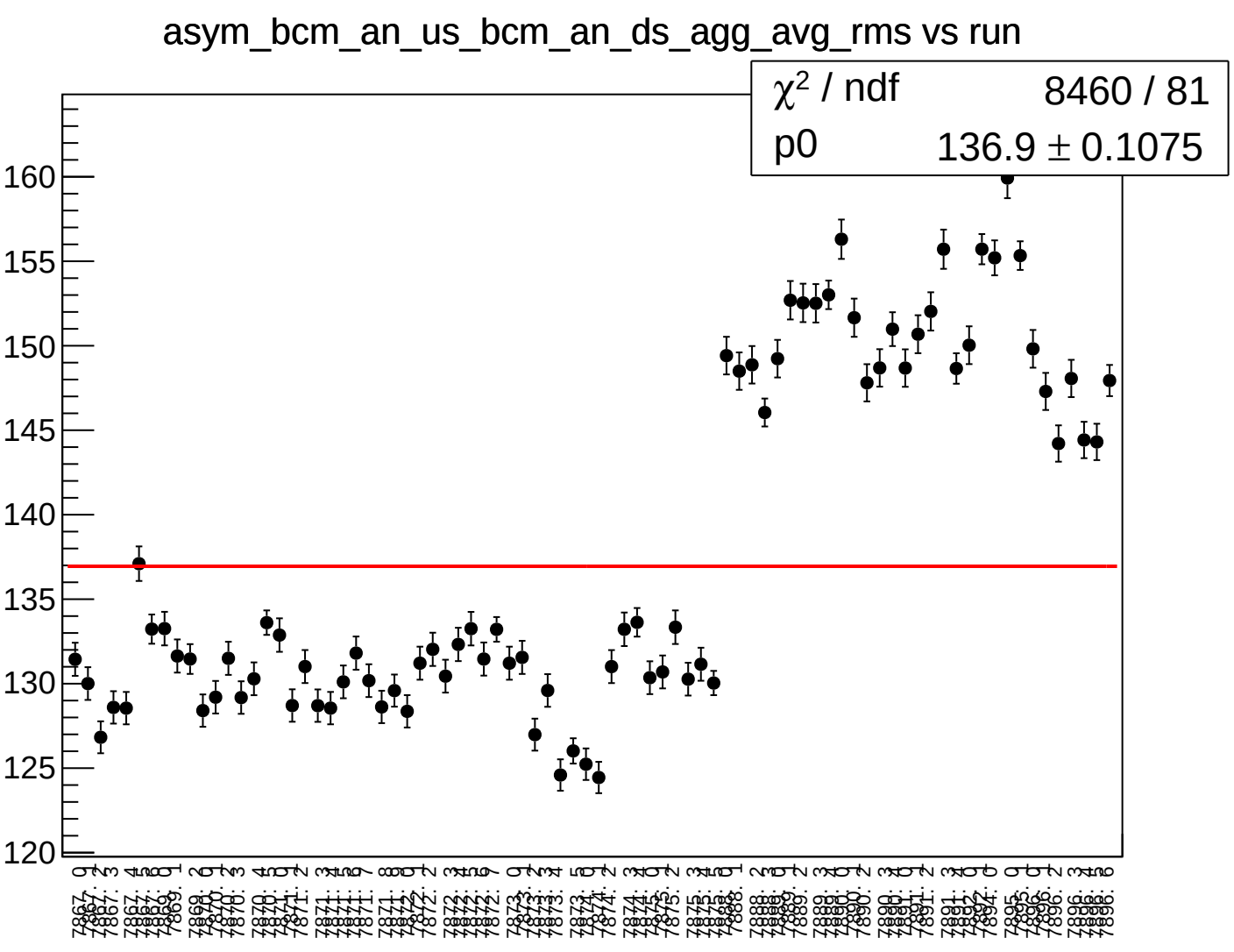

yield_atr2_mean vs run
χ² / ndf 2.248e+06 / 81
p0 0.02237 ± 7.516e−07
0.028
0.026
0.024
0.022
0.02
0.018
pull
Entries 82
Mean −91.12
Std Dev 0
600
400
200
0
−200
−400

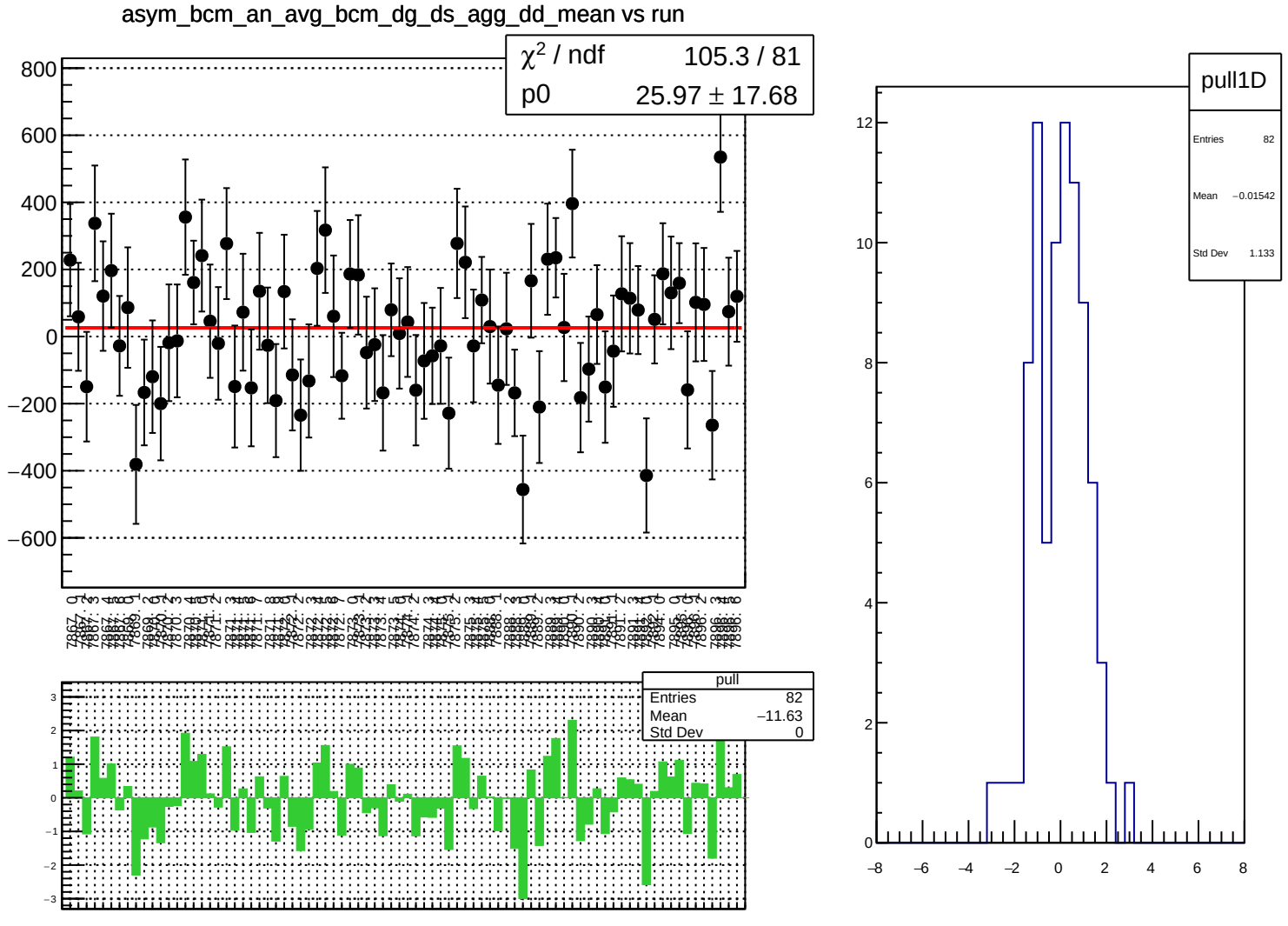

pull1D
Entries 82
Mean 0.01555
Std Dev 4.088
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

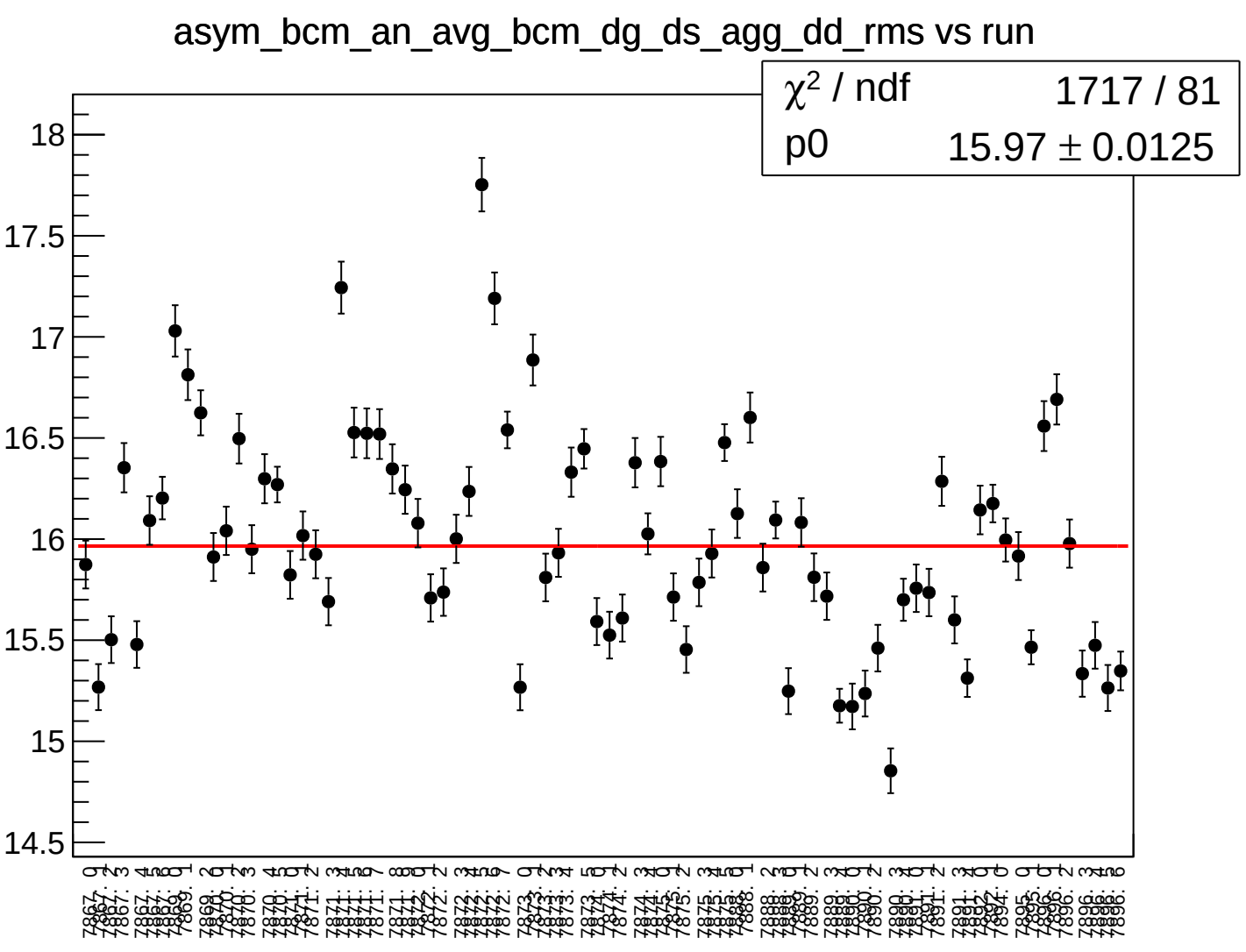

yield_atr2_rms vs run
χ² / ndf 1.368e+05 / 81
p0 0.0006499 ± 5.315e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

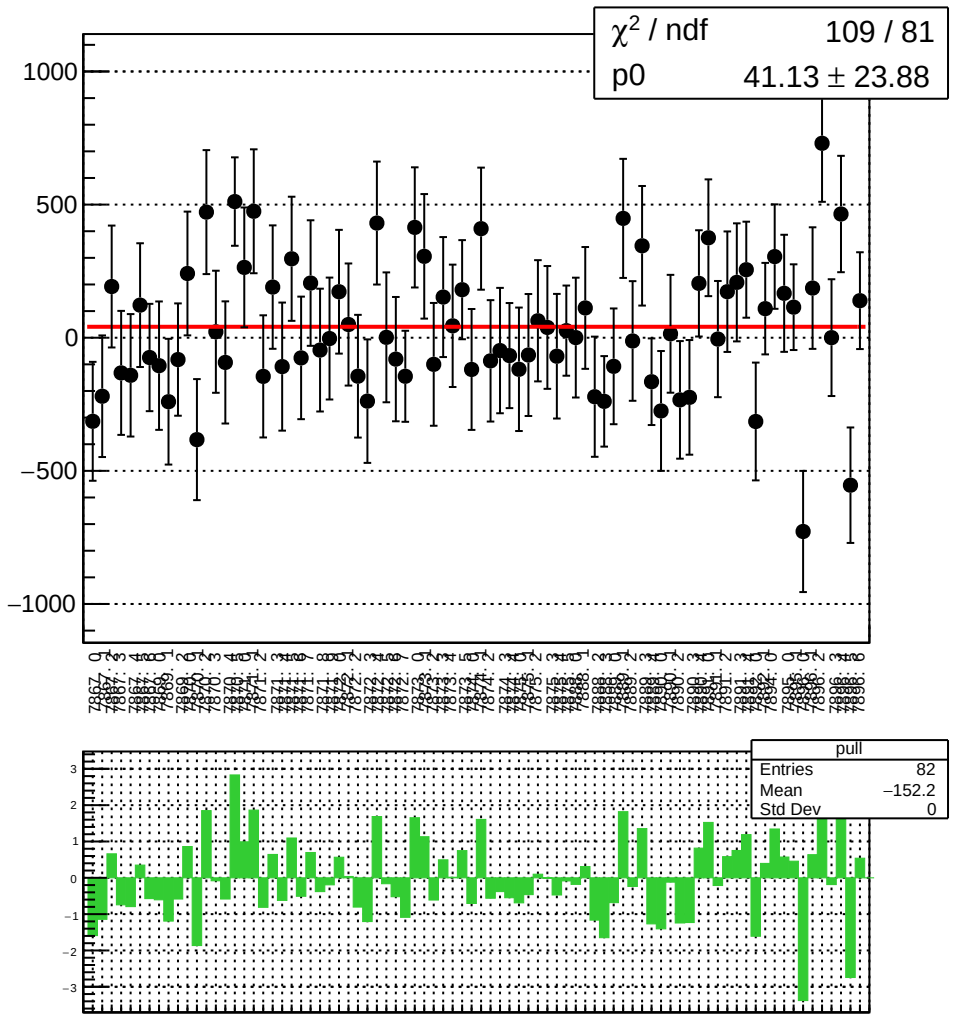

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.45 / 81
p0 53.48 ± 152
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 174.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

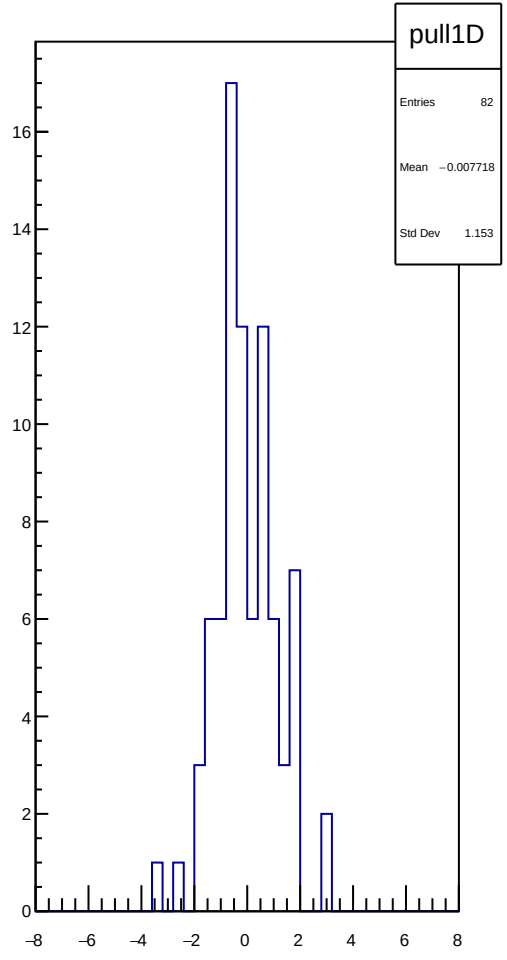

pull1D
Entries 82
Mean 0.001467
Std Dev 0.4994
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

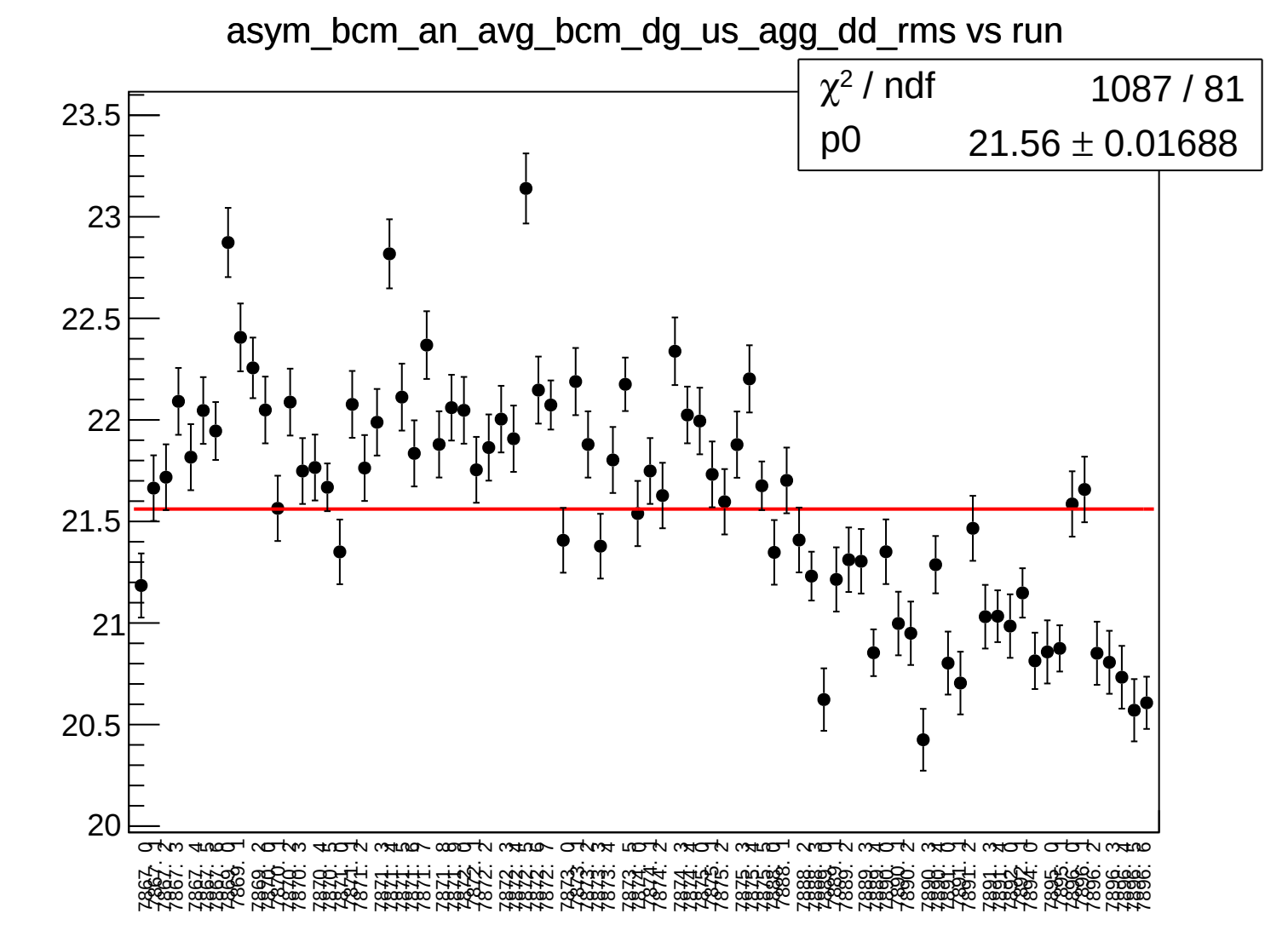

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8460 / 81
p0 136.9 ± 0.1075
160
155
150
145
140
135
130
125
120

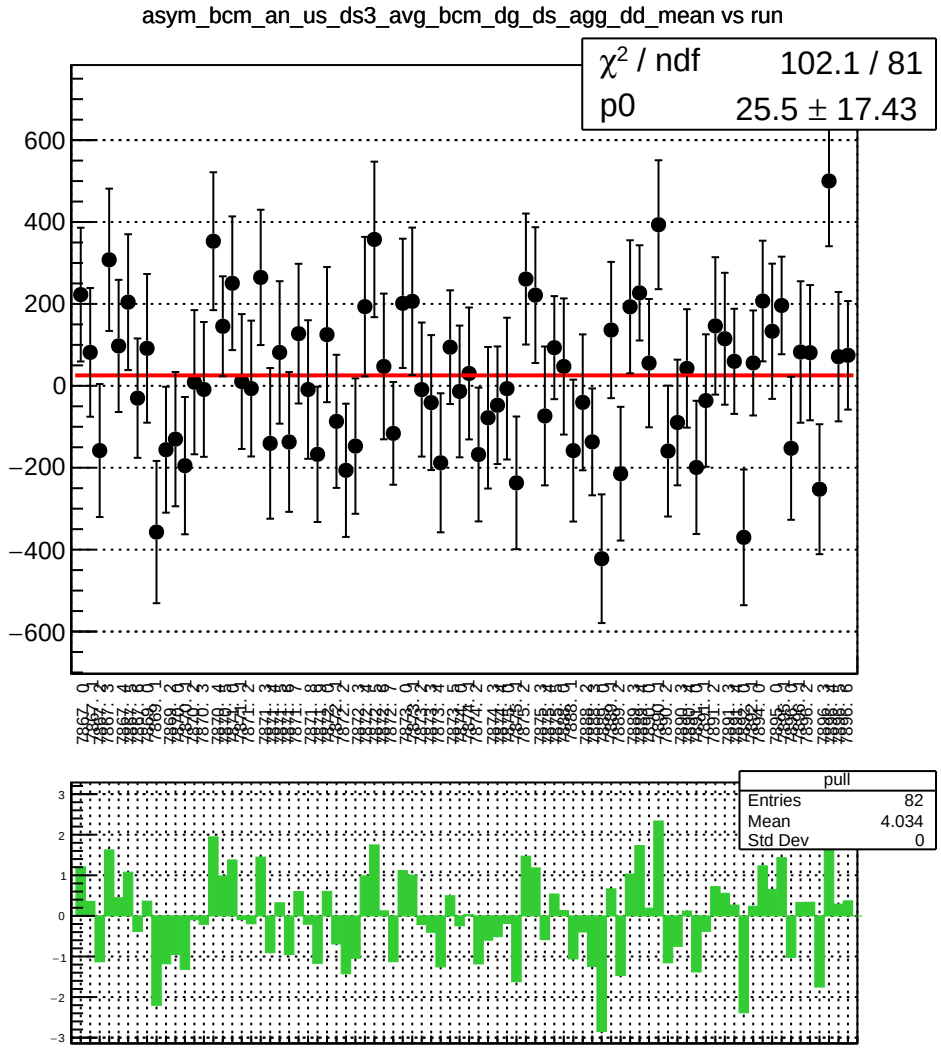

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 105.3 / 81
p0 25.97 ± 17.68
pull
Entries 82
Mean −11.63
Std Dev 0
pull1D
Entries 82
Mean −0.01542
Std Dev 1.133

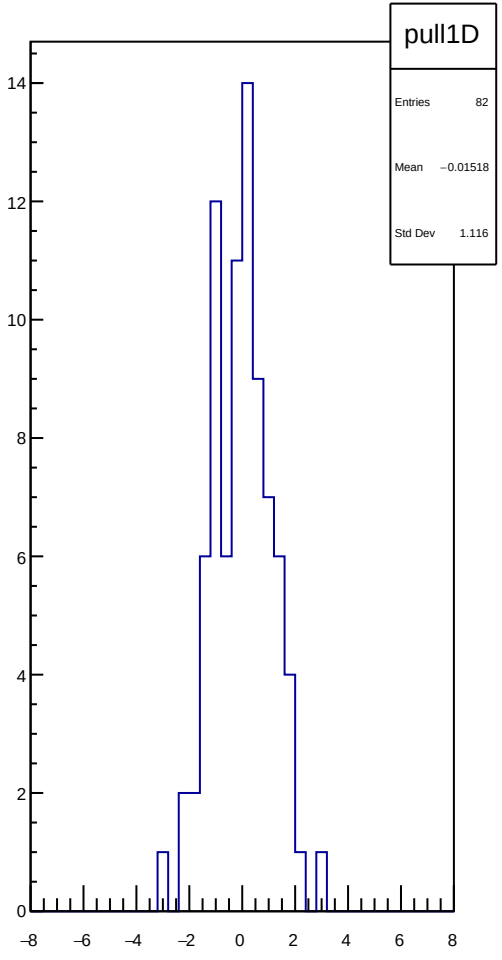

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1717 / 81
p0 15.97 ± 0.0125
18
17.5
17
16.5
16
15.5
15
14.5

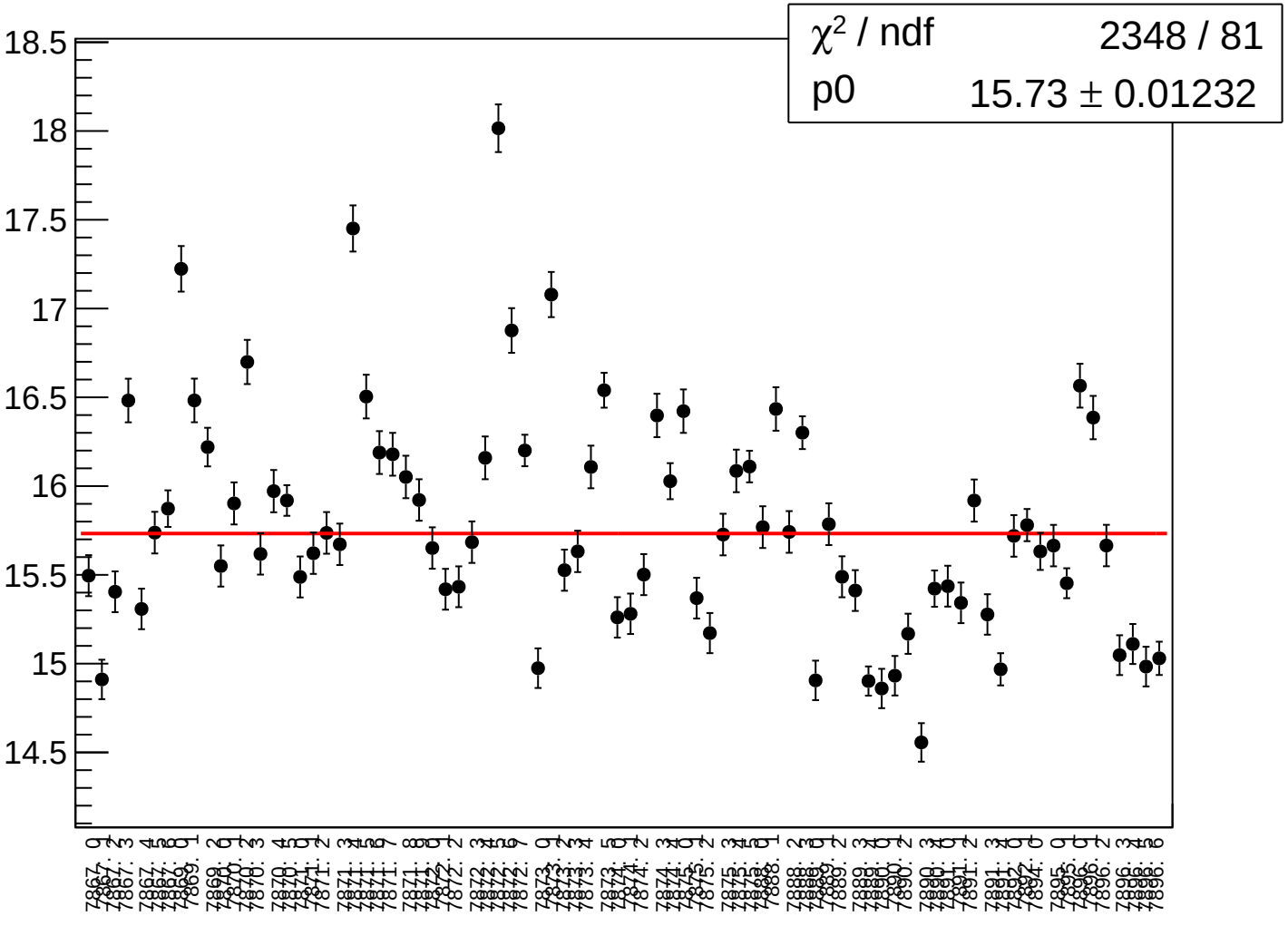

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 109 / 81
p0 41.13 ± 23.88
1000
500
0
−500
−1000
pull
Entries 82
Mean −152.2
Std Dev 0
3
2
1
0
−1
−2
−3

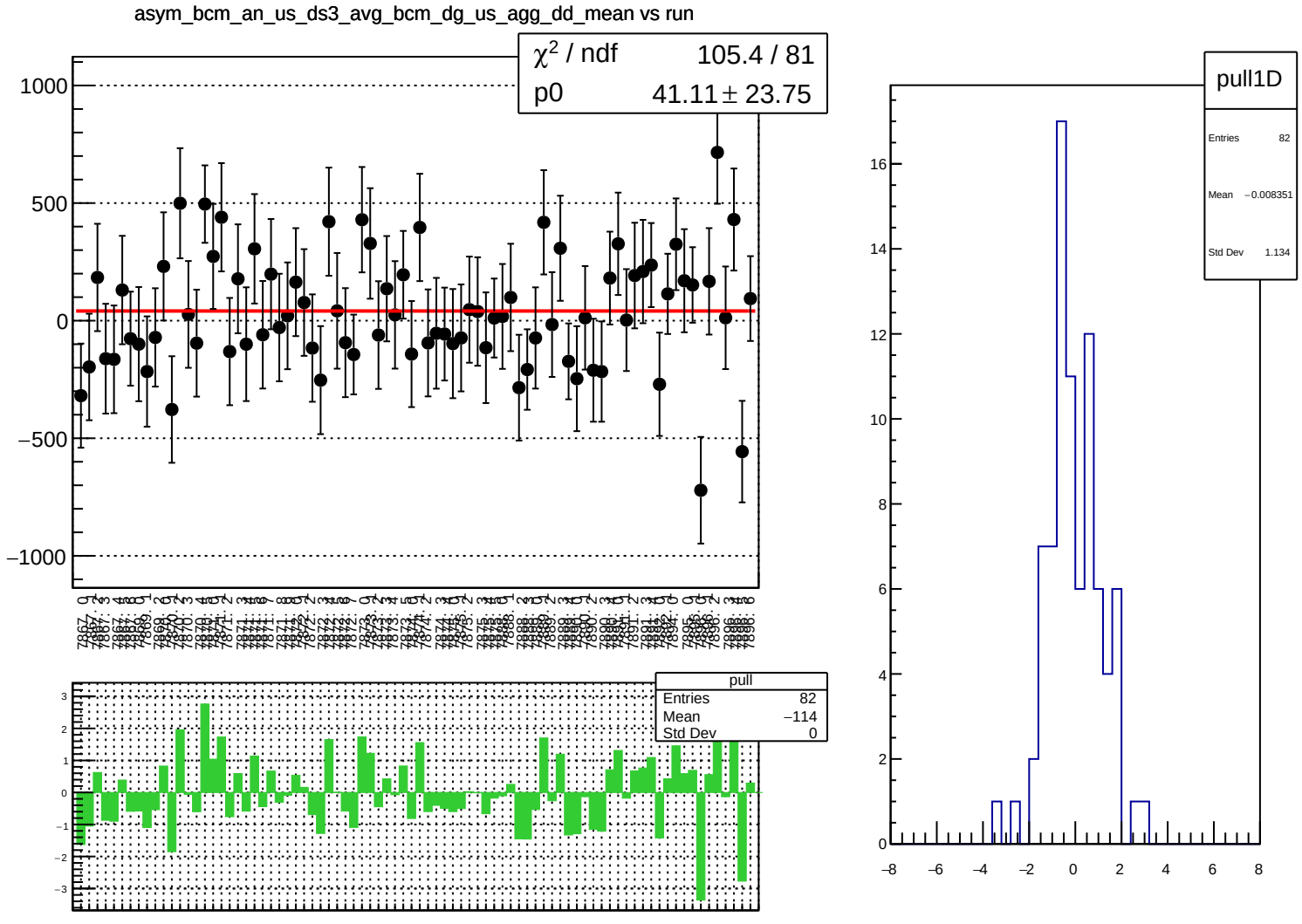

pull1D
Entries 82
Mean −0.007718
Std Dev 1.153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

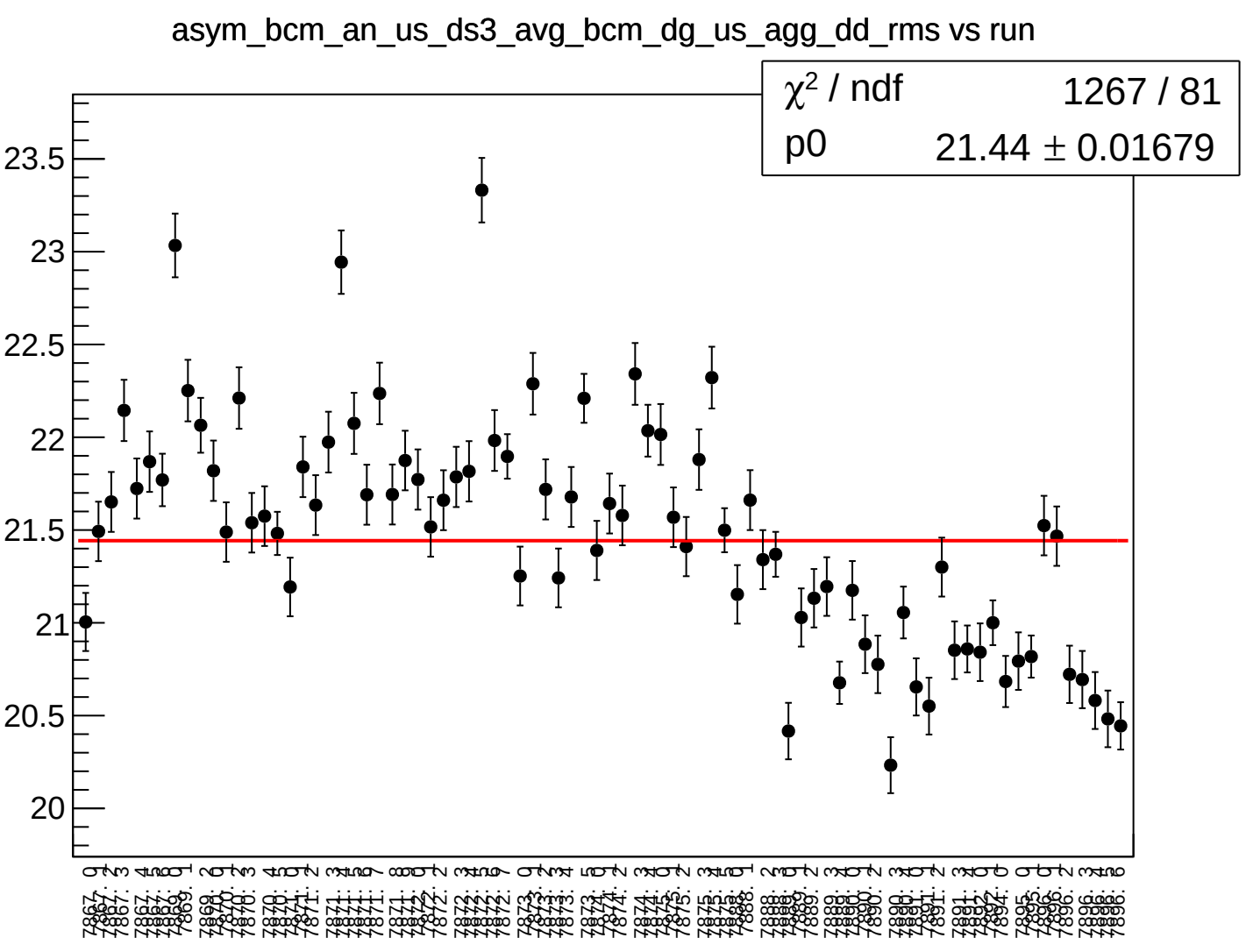

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1087 / 81
p0 21.56 ± 0.01688
23.5
23
22.5
22
21.5
21
20.5
20

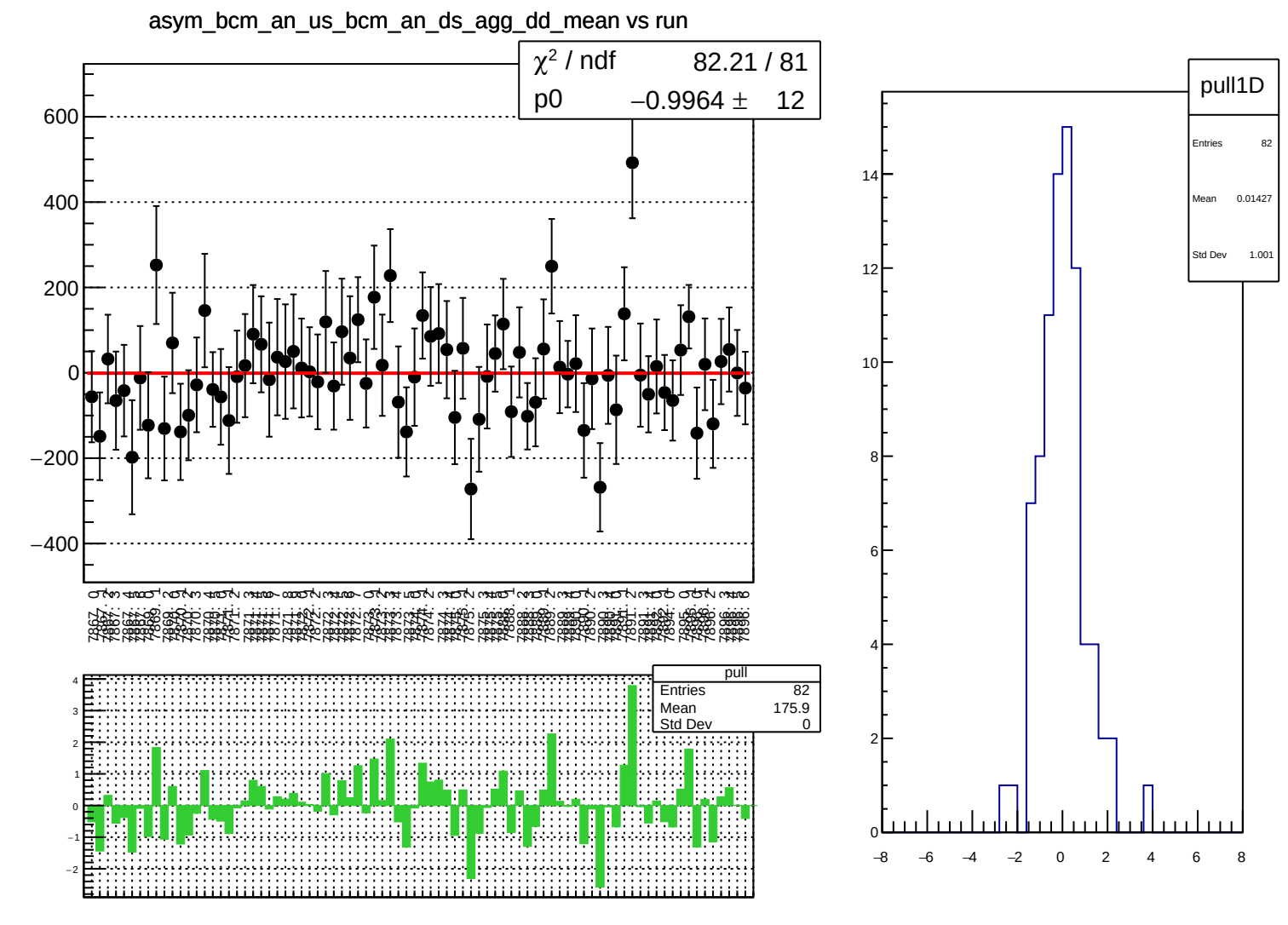

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 102.1 / 81
p0 25.5 ± 17.43
pull
Entries 82
Mean 4.034
Std Dev 0

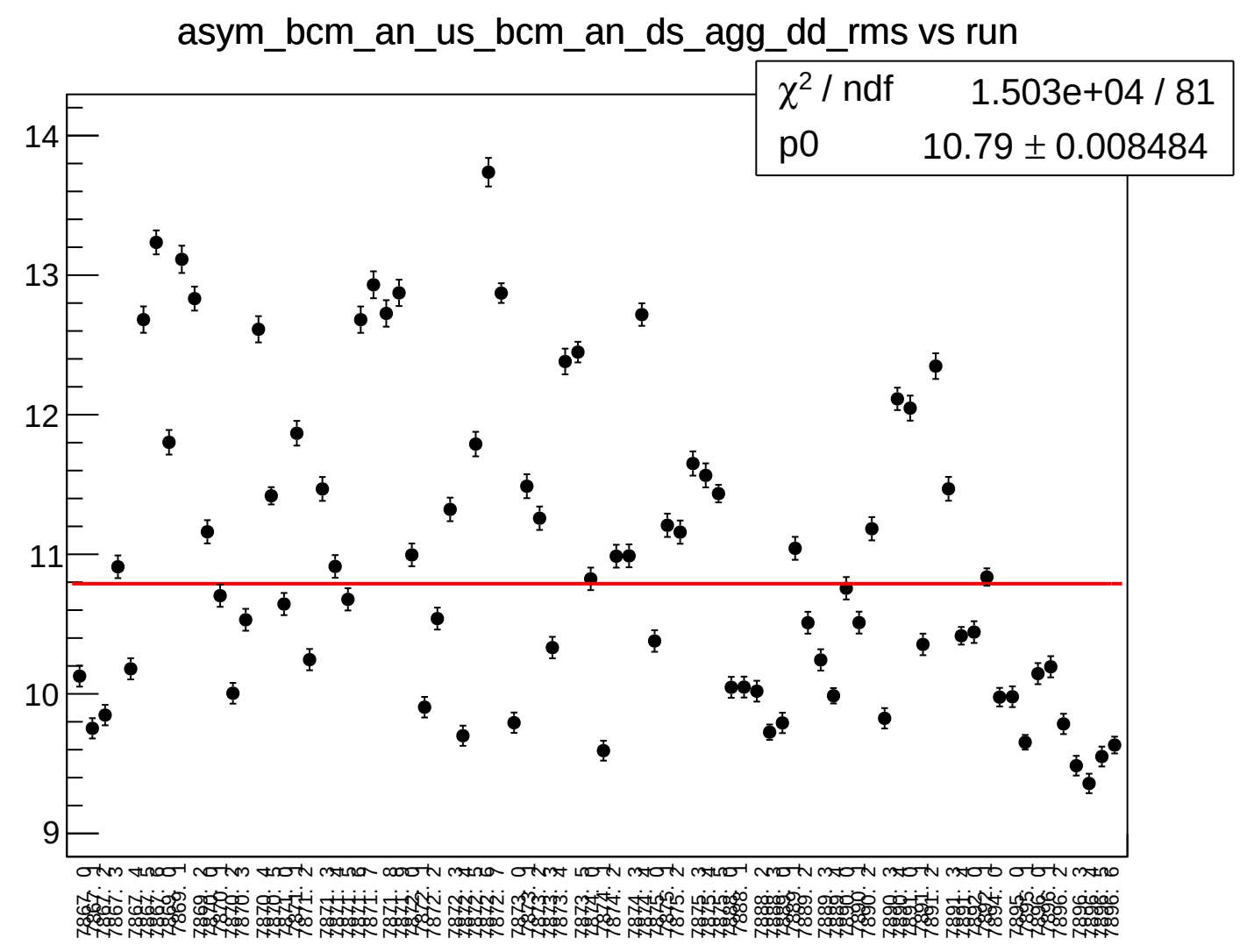

pull1D
Entries 82
Mean −0.01518
Std Dev 1.116

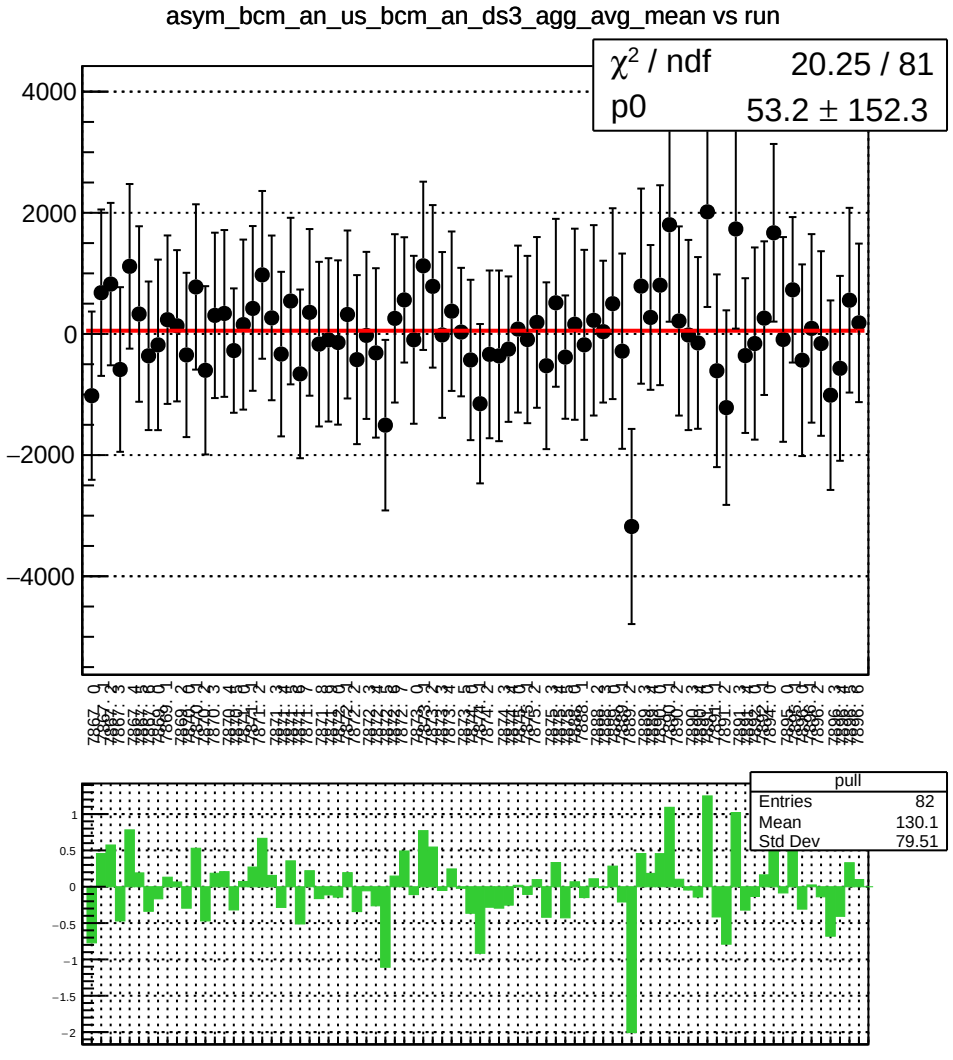

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2348 / 81
p0 15.73 ± 0.01232
18.5
18
17.5
17
16.5
16
15.5
15
14.5

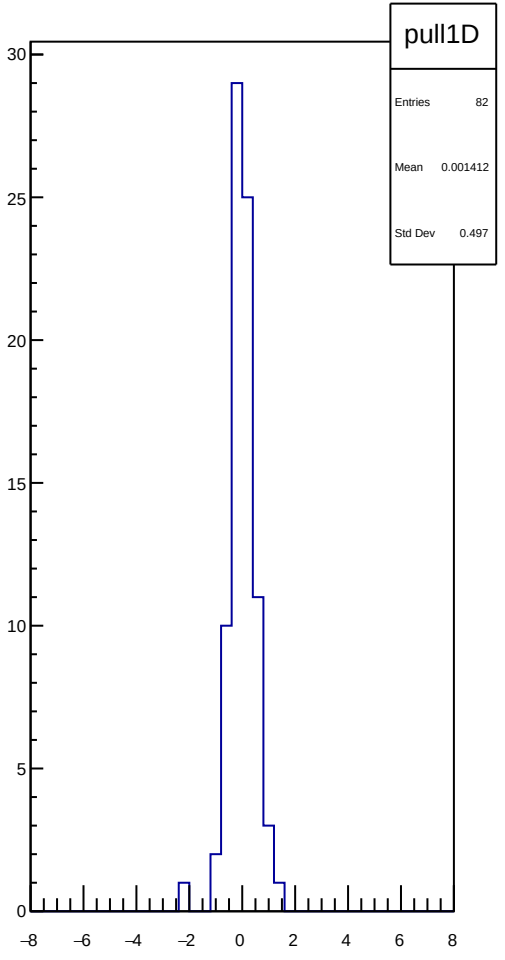

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 105.4 / 81
p0 41.11 ± 23.75
1000
500
0
−500
−1000
pull
Entries 82
Mean −114
Std Dev 0
pull1D
Entries 82
Mean −0.008351
Std Dev 1.134

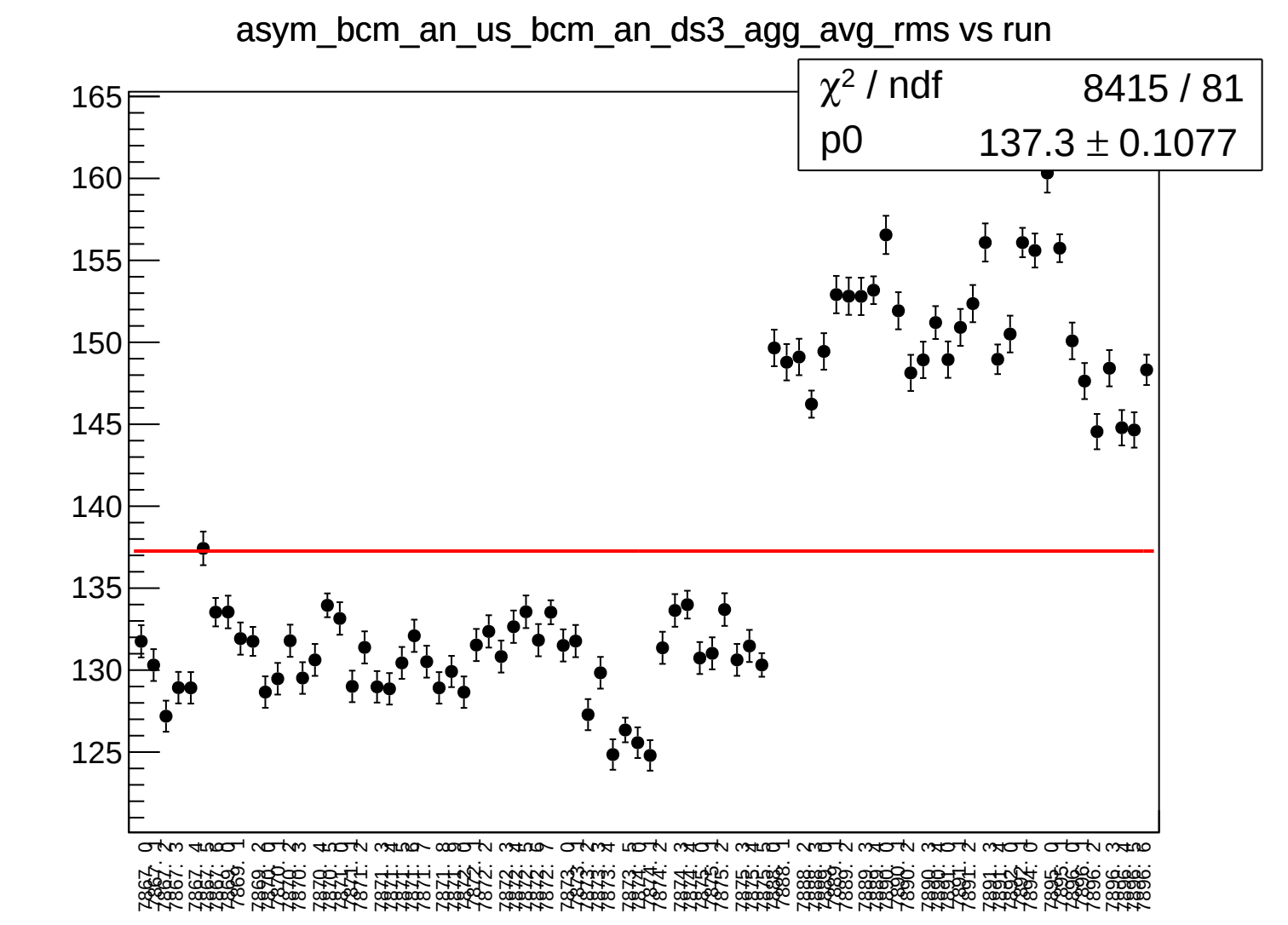

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1267 / 81
p0 21.44 ± 0.01679
23.5
23
22.5
22
21.5
21
20.5
20

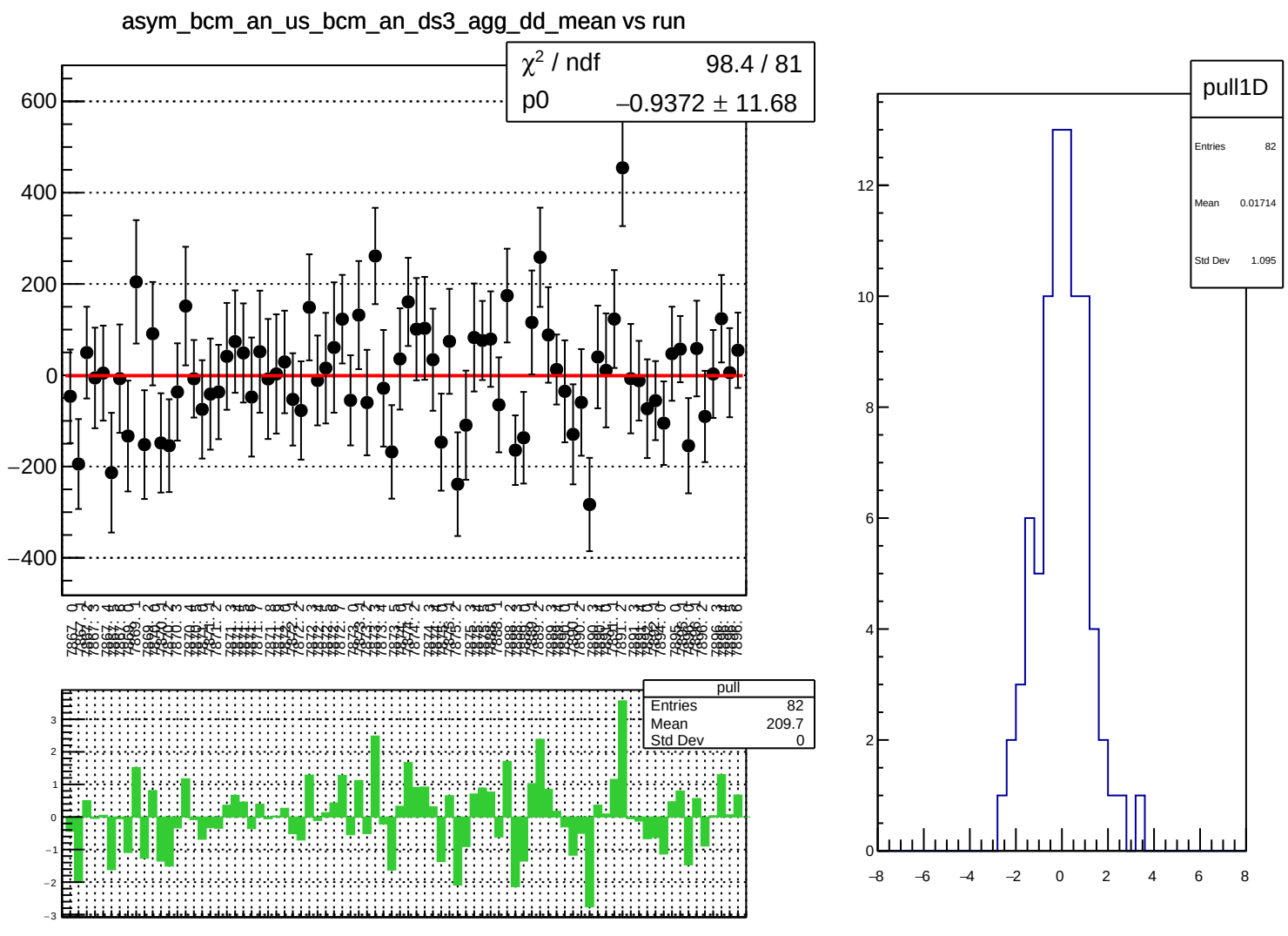

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.21 / 81
p0 −0.9964 ± 12
pull
Entries 82
Mean 175.9
Std Dev 0
pull1D
Entries 82
Mean 0.01427
Std Dev 1.001

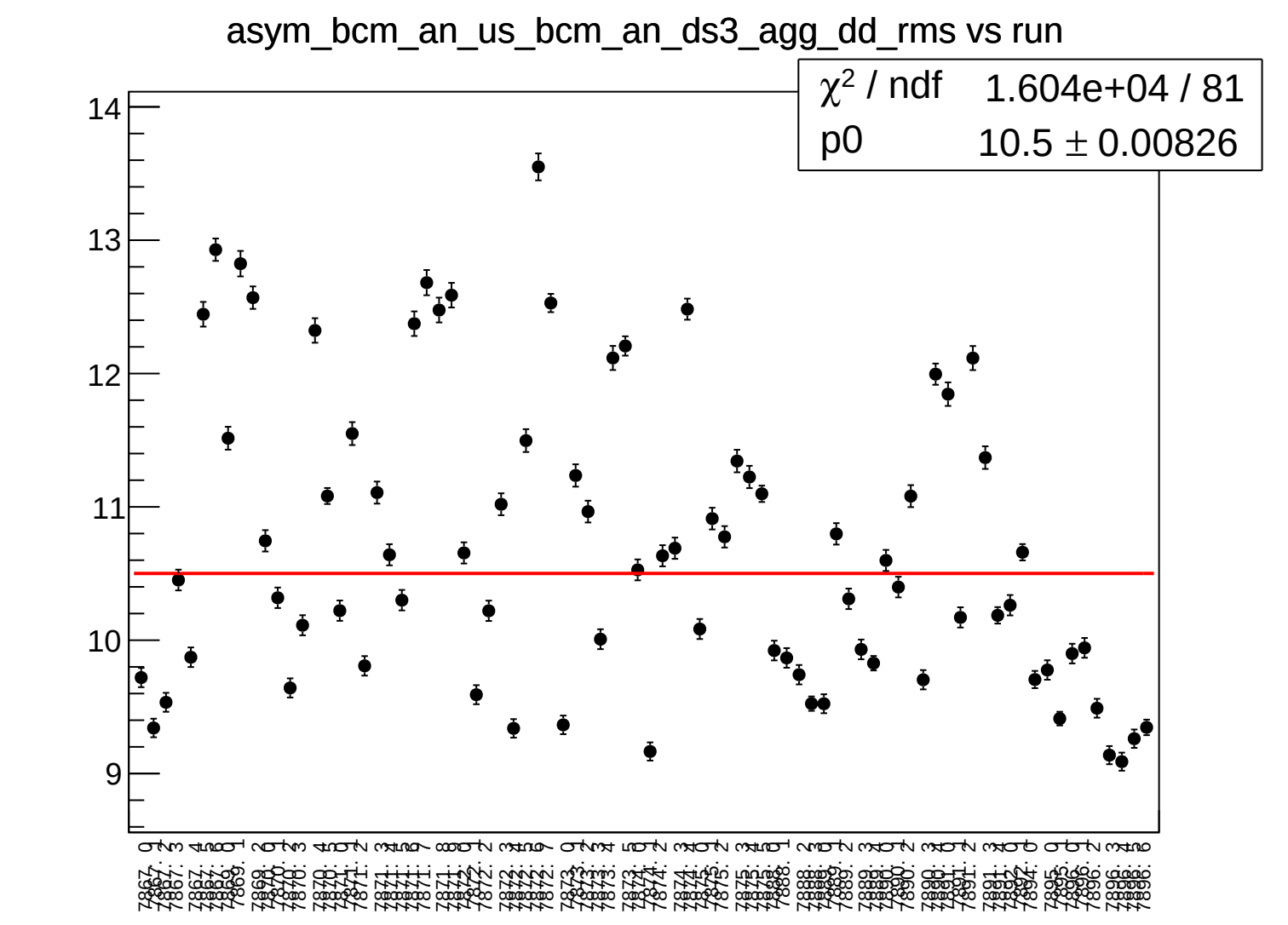

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.503e+04 / 81
p0 10.79 ± 0.008484
14
13
12
11
10
9

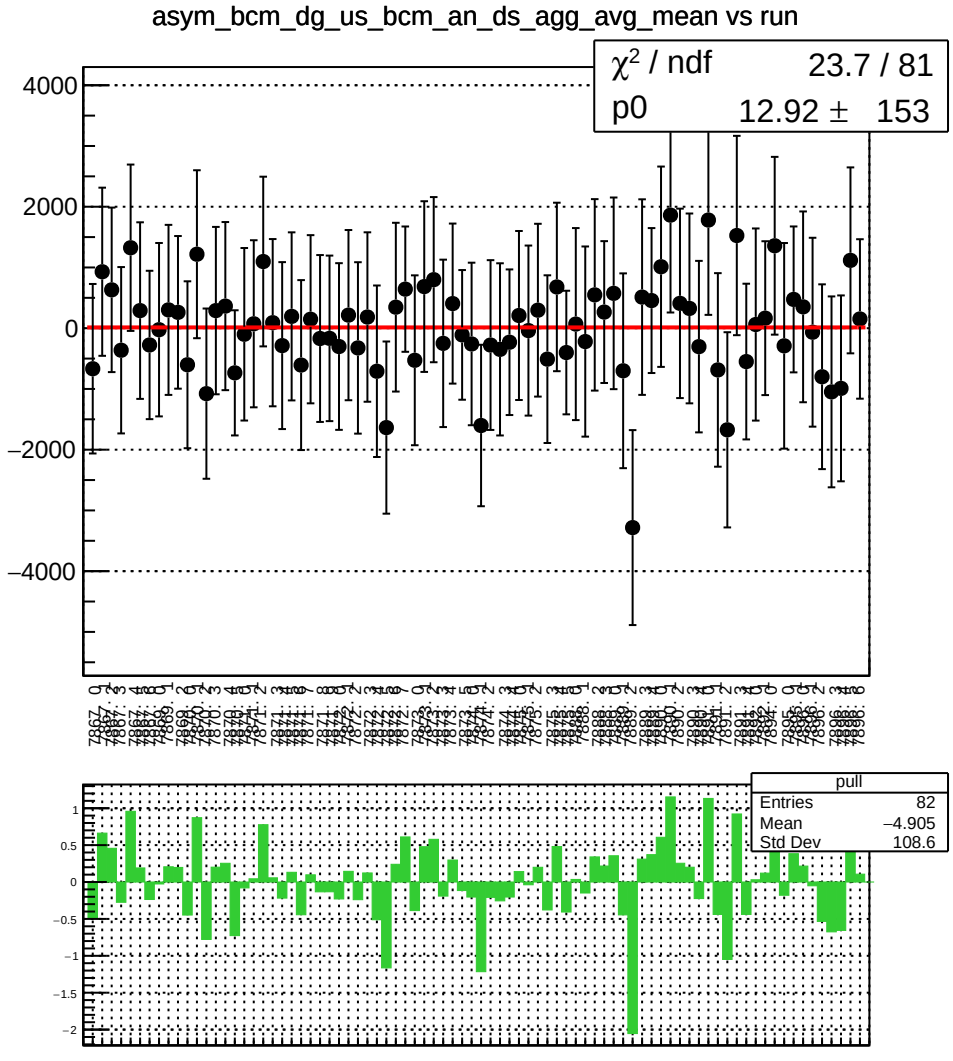

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 20.25 / 81
p0 53.2 ± 152.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 130.1
Std Dev 79.51
1
0.5
0
−0.5
−1
−1.5
−2

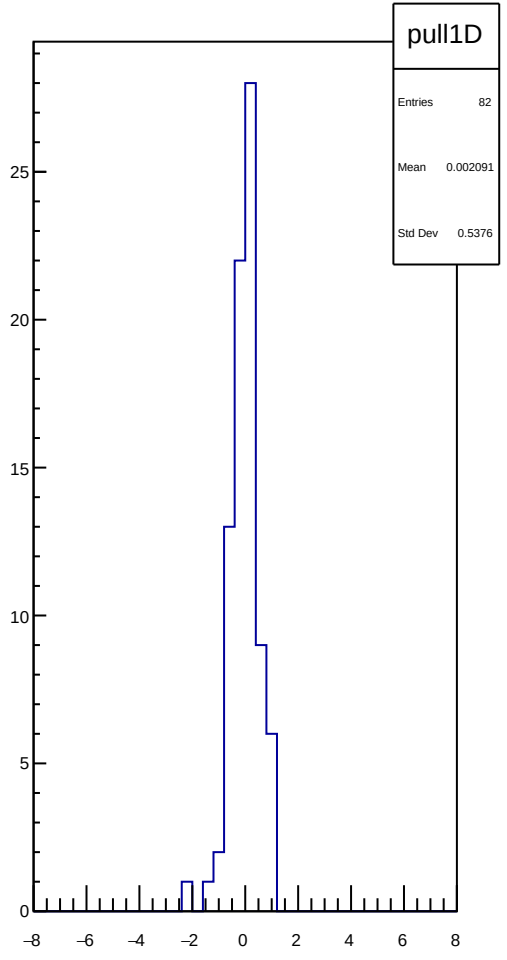

pull1D
Entries 82
Mean 0.001412
Std Dev 0.497
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

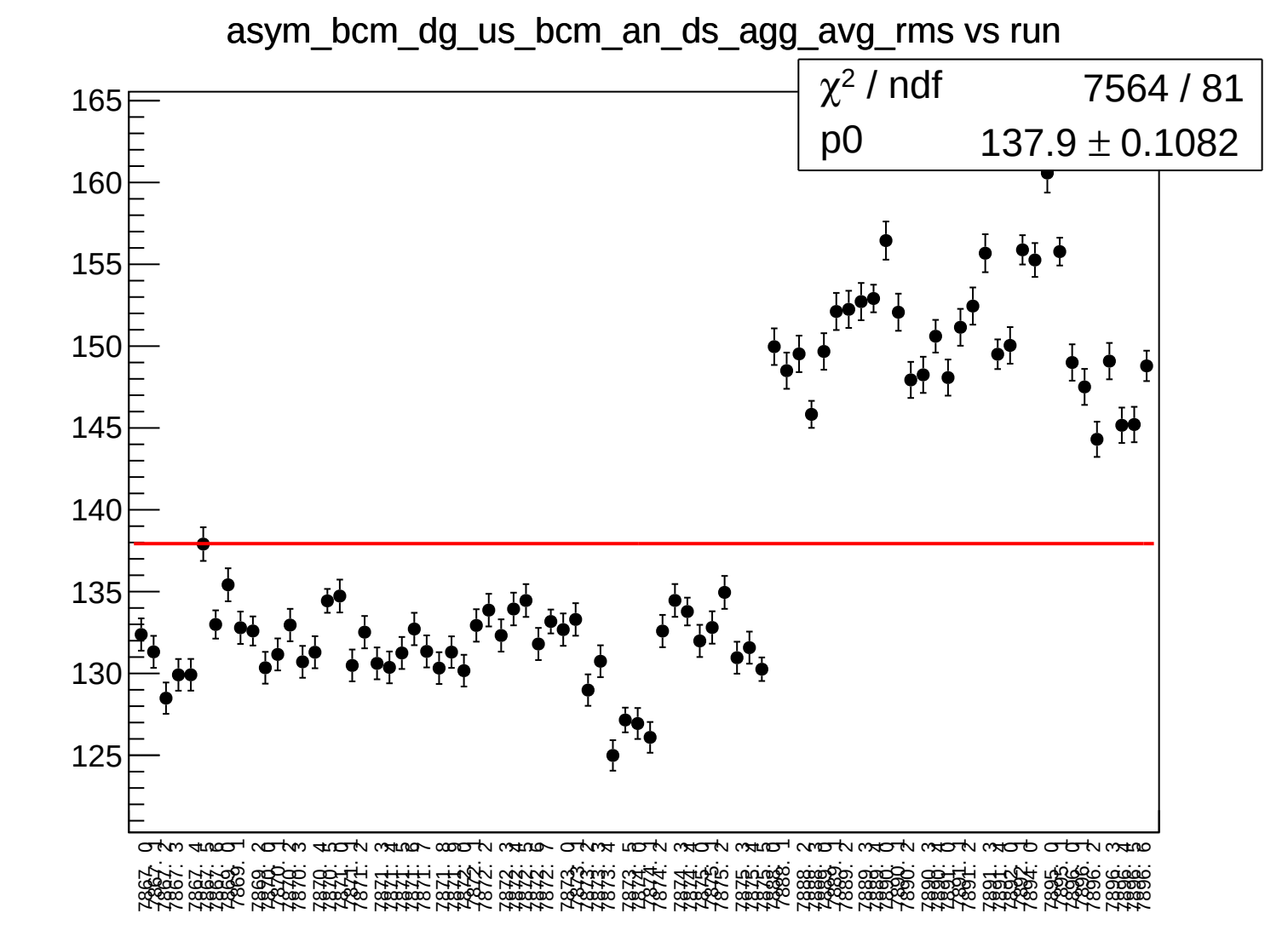

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8415 / 81
p0 137.3 ± 0.1077
165
160
155
150
145
140
135
130
125

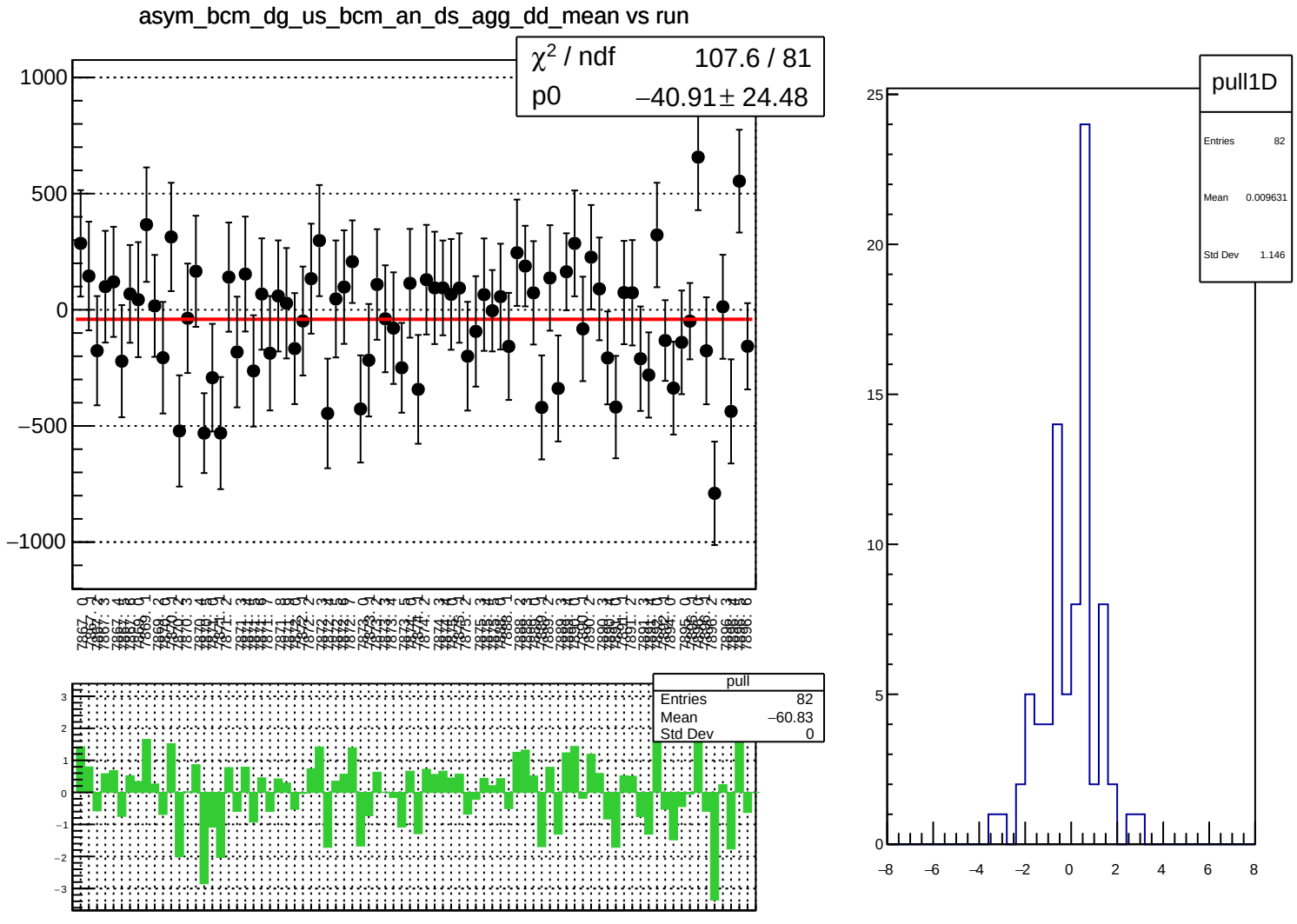

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 98.4 / 81
p0 −0.9372 ± 11.68
600
400
200
0
−200
−400
pull
Entries 82
Mean 209.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.01714
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

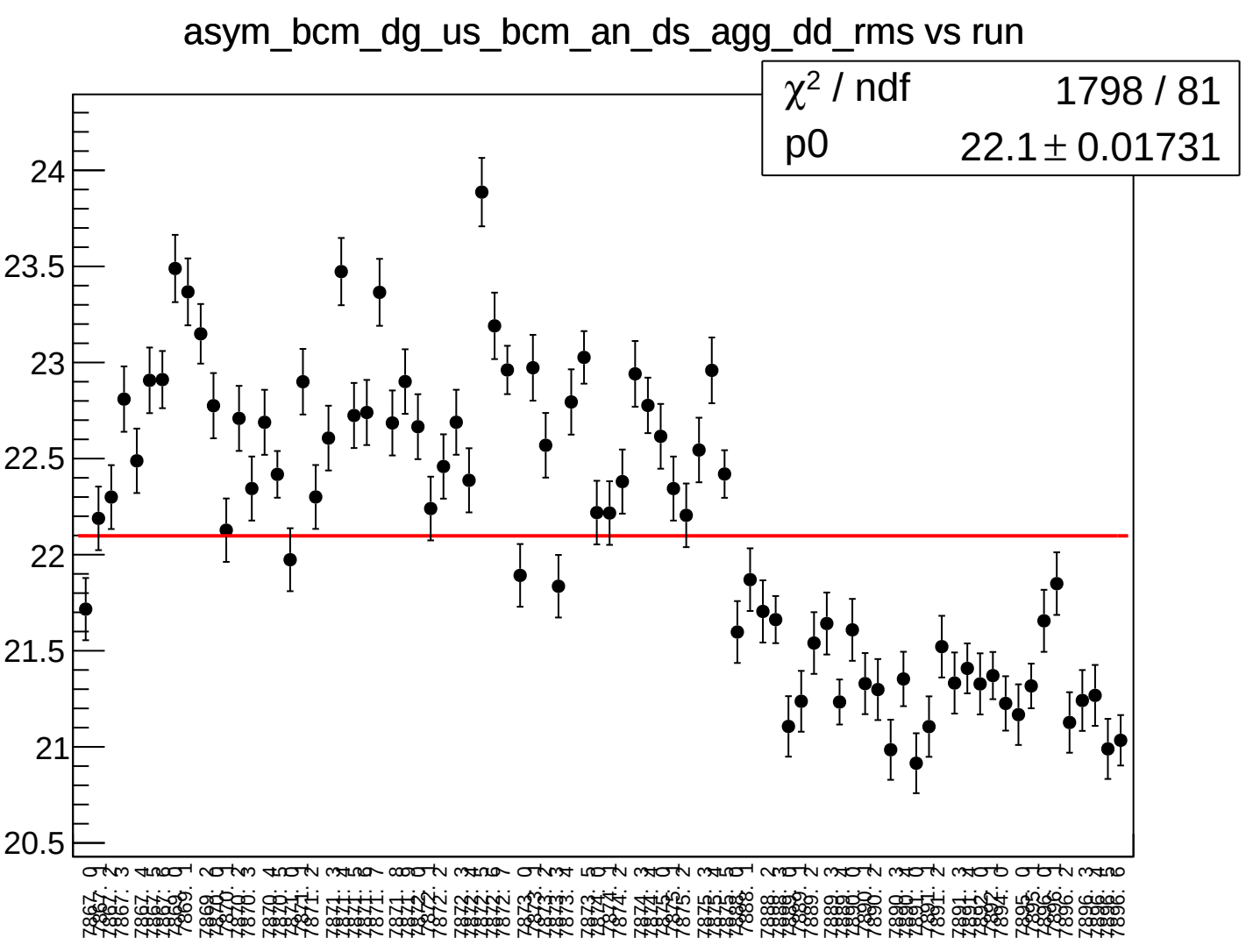

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.604e+04 / 81
p0 10.5 ± 0.00826
14
13
12
11
10
9

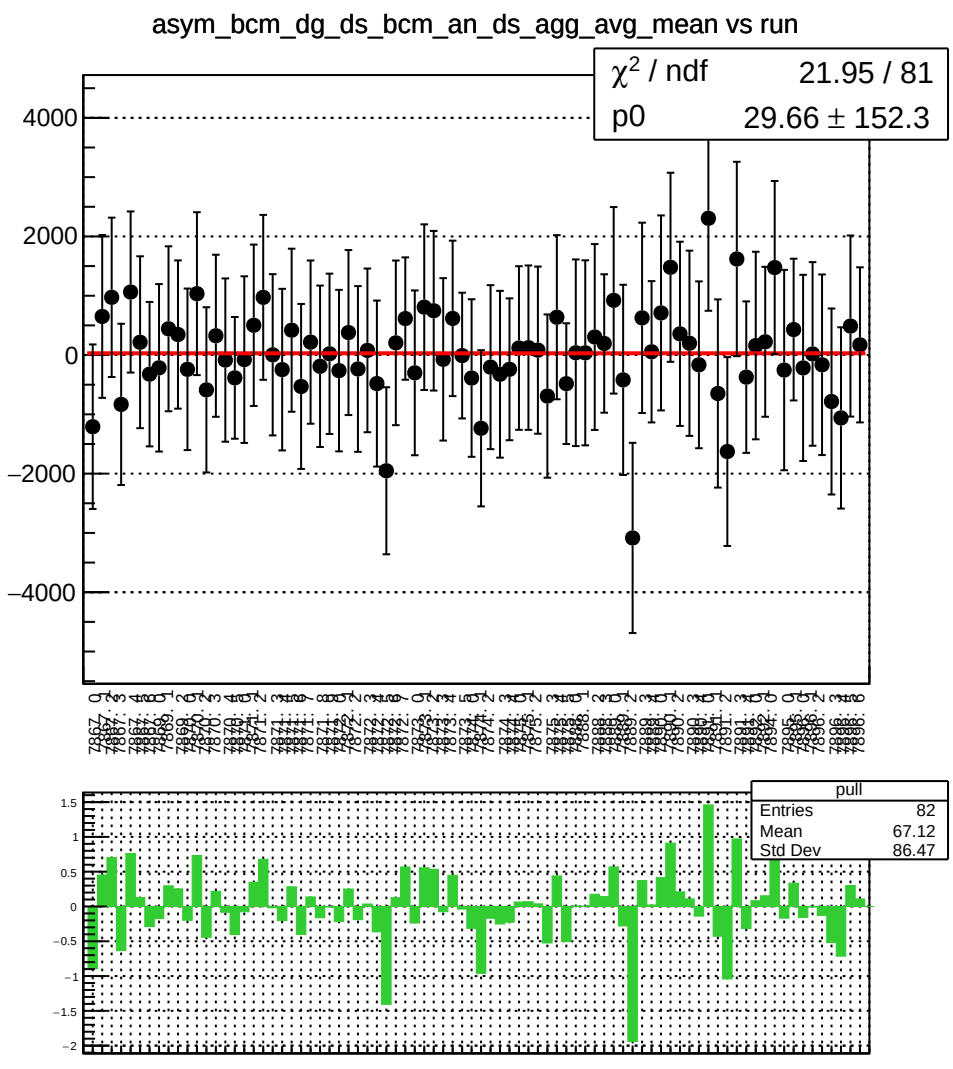

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.7 / 81
p0 12.92 ± 153
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −4.905
Std Dev 108.6
1
0.5
0
−0.5
−1
−1.5
−2

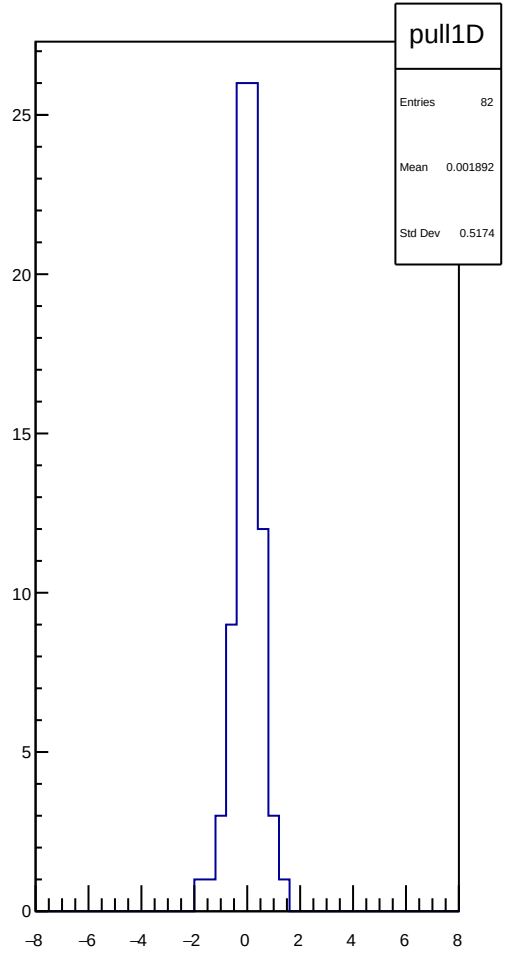

pull1D
Entries 82
Mean 0.002091
Std Dev 0.5376
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

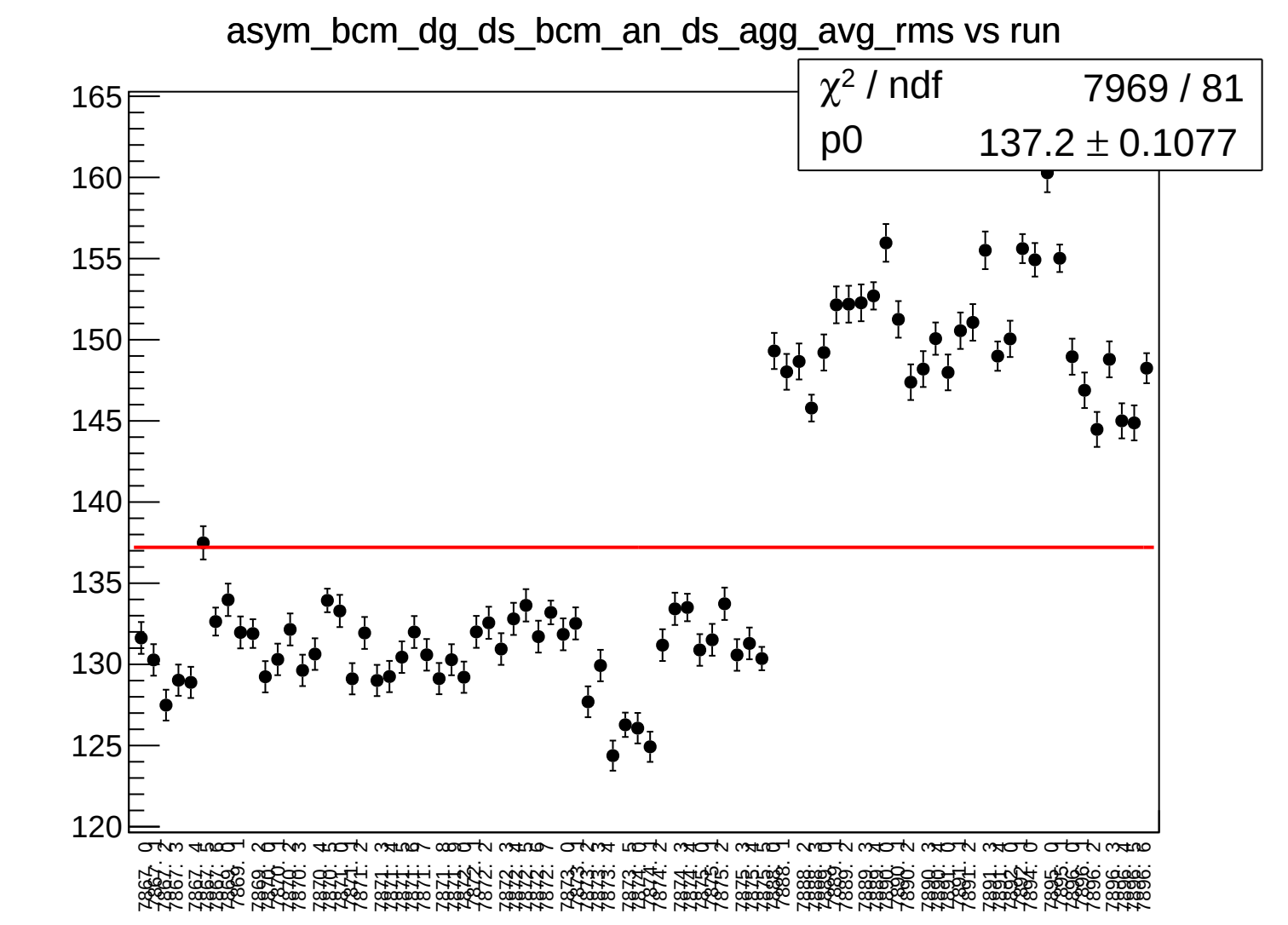

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7564 / 81
p0 137.9 ± 0.1082
165
160
155
150
145
140
135
130
125

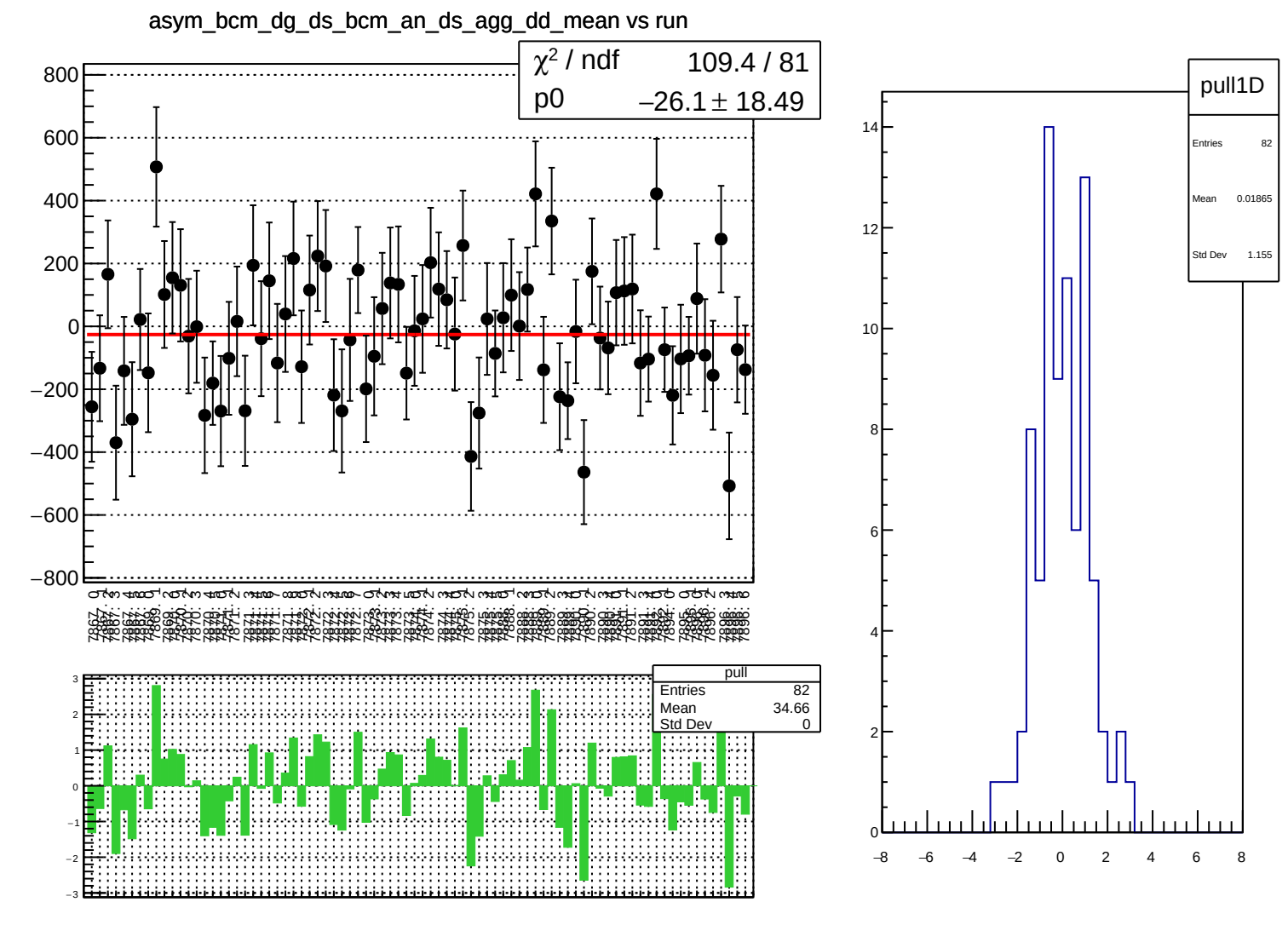

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 107.6 / 81
p0 −40.91 ± 24.48
1000
500
0
−500
−1000
pull
Entries 82
Mean −60.83
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.009631
Std Dev 1.146
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

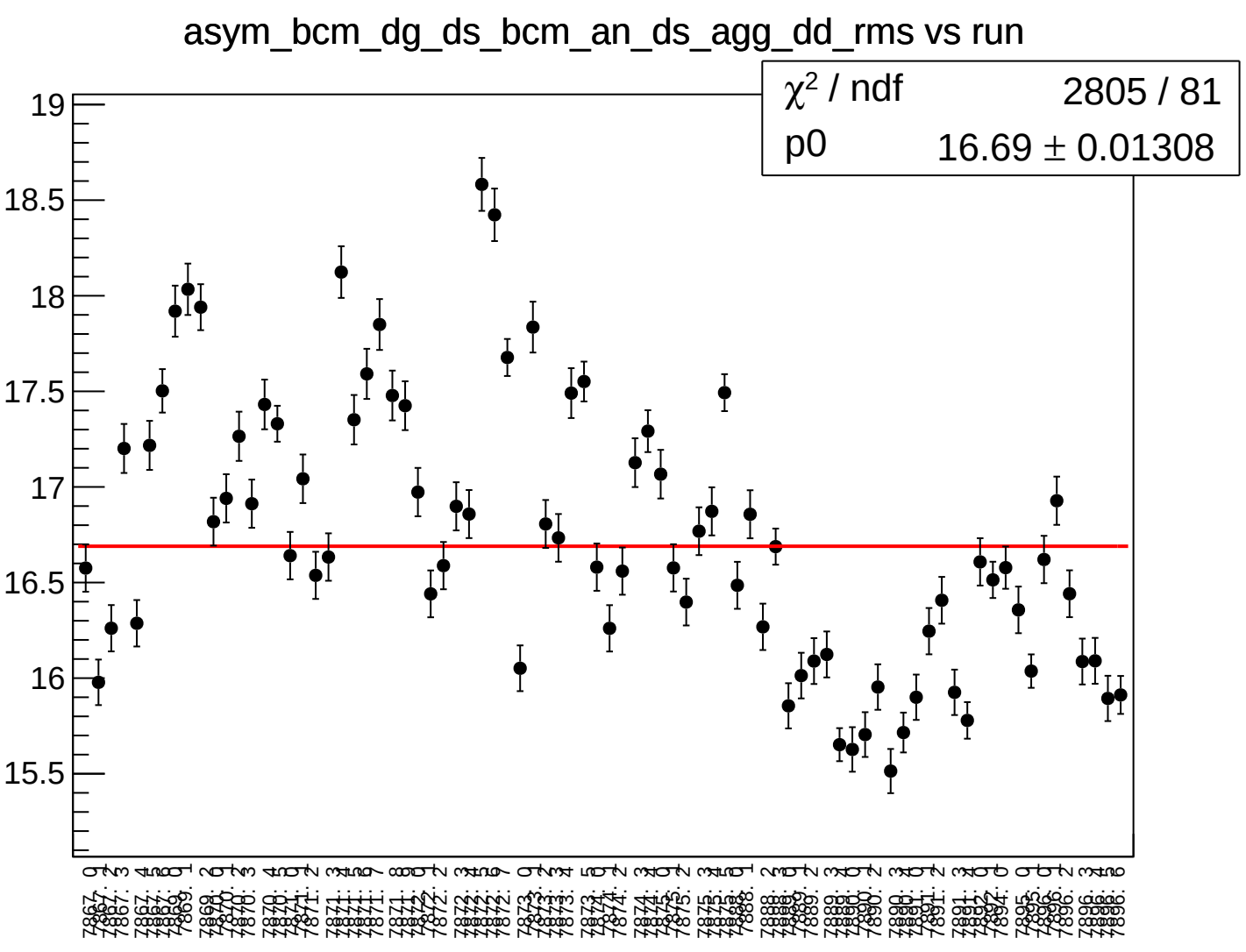

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1798 / 81
p0 22.1 ± 0.01731
24
23.5
23
22.5
22
21.5
21
20.5

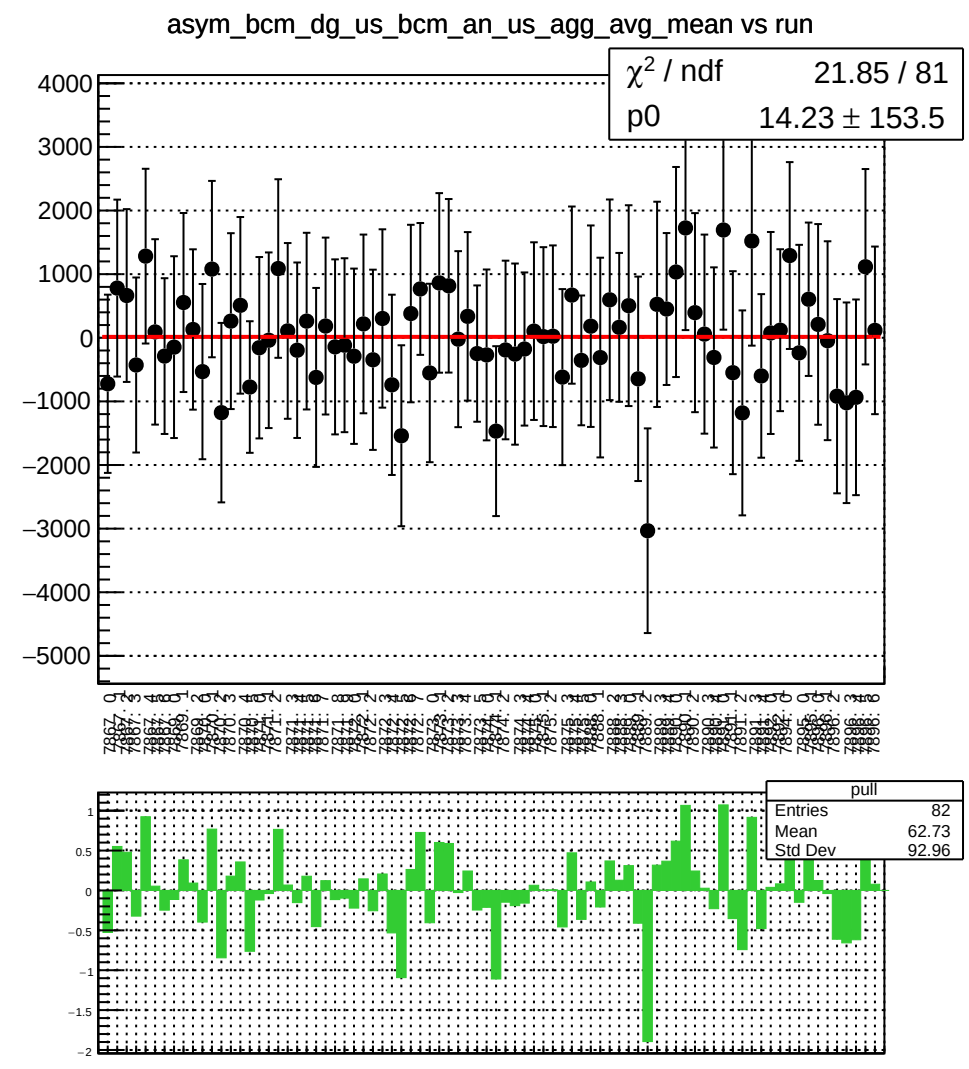

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.95 / 81
p0 29.66 ± 152.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 67.12
Std Dev 86.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

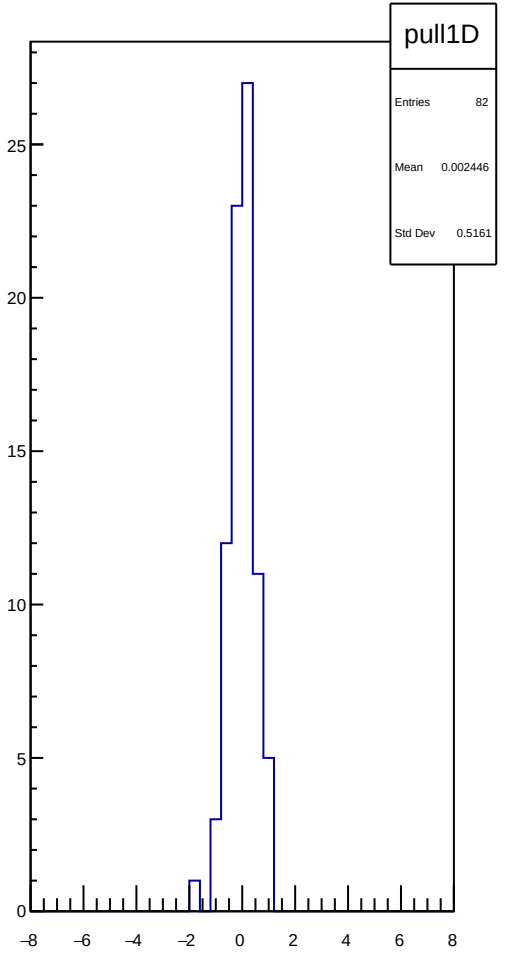

pull1D
Entries 82
Mean 0.001892
Std Dev 0.5174
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

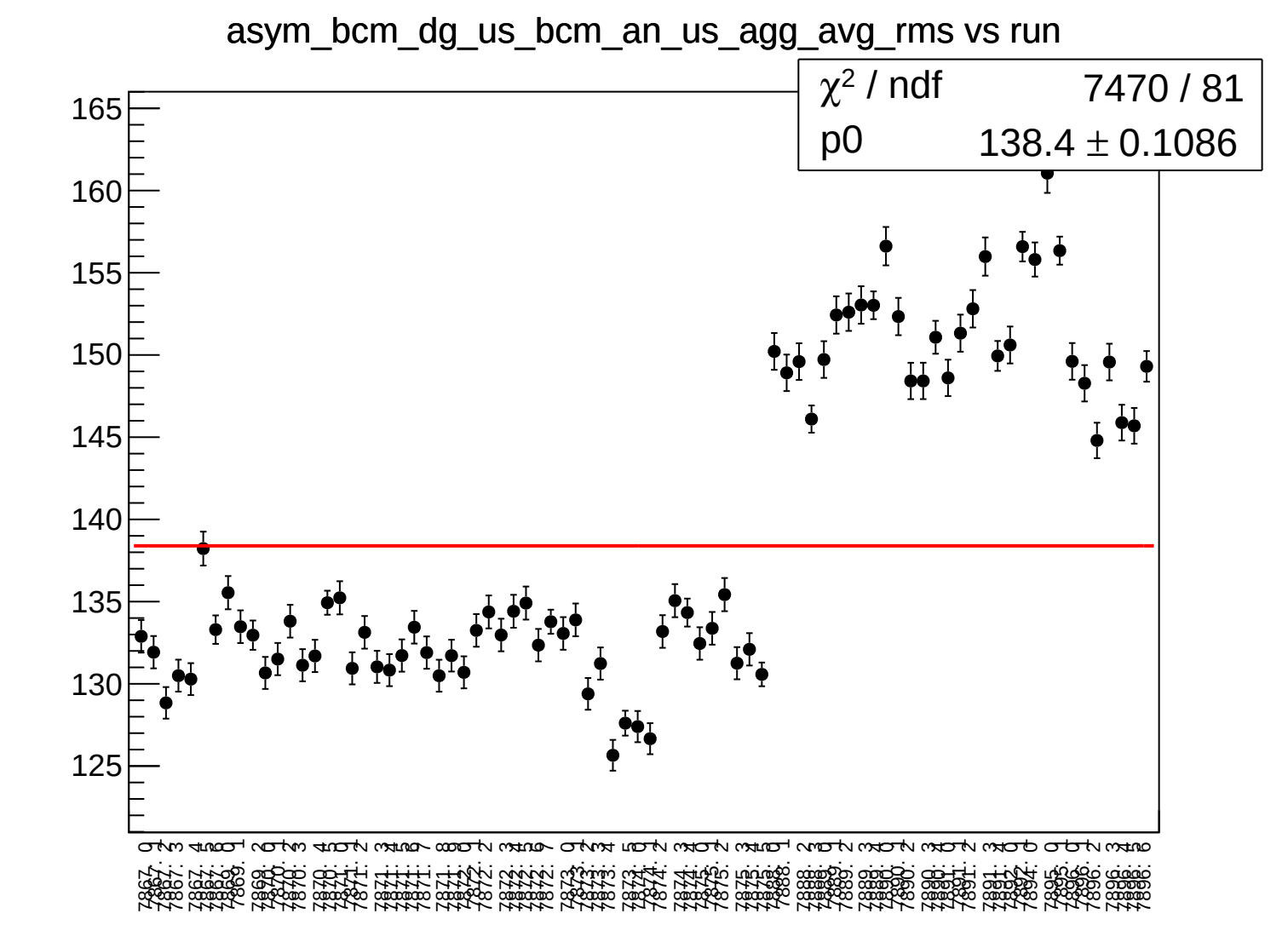

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7969 / 81
p0 137.2 ± 0.1077
165
160
155
150
145
140
135
130
125
120

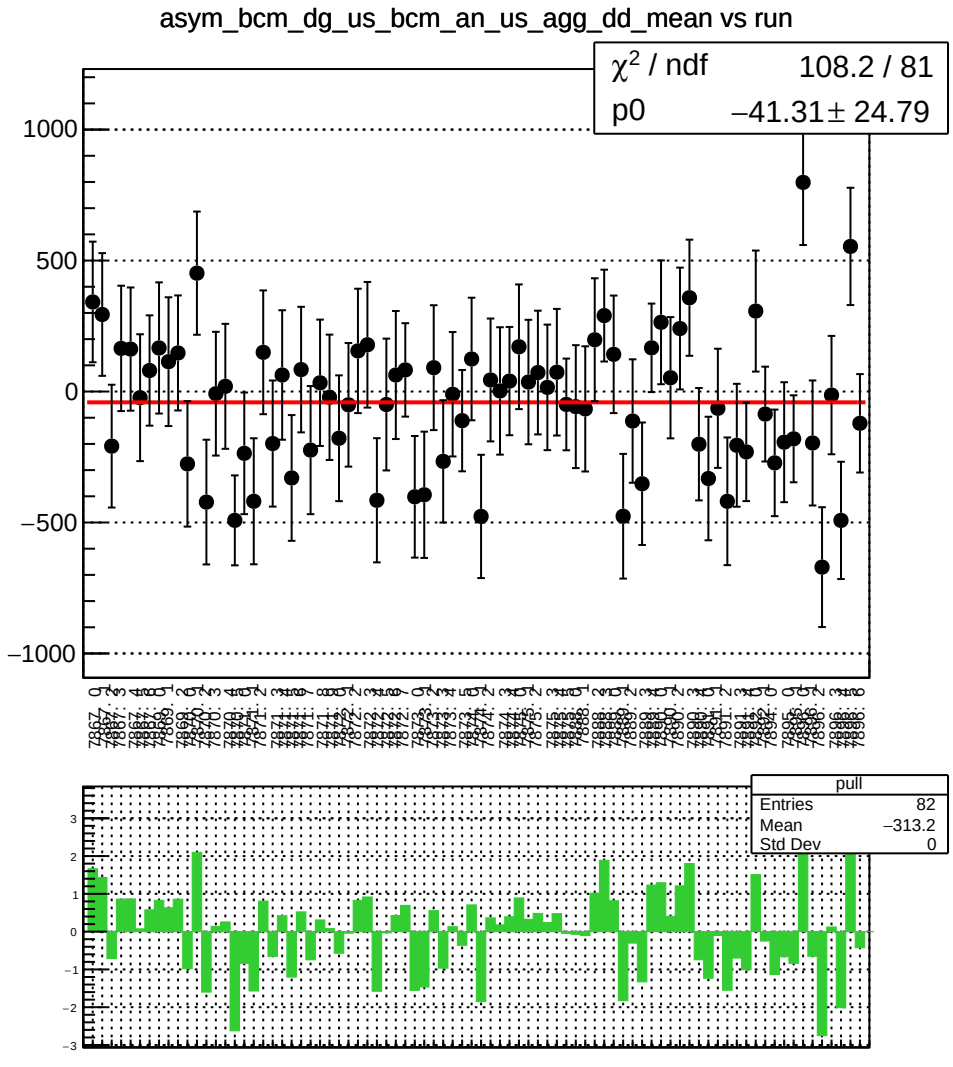

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 109.4 / 81
p0 −26.1 ± 18.49
pull
Entries 82
Mean 34.66
Std Dev 0
pull1D
Entries 82
Mean 0.01865
Std Dev 1.155

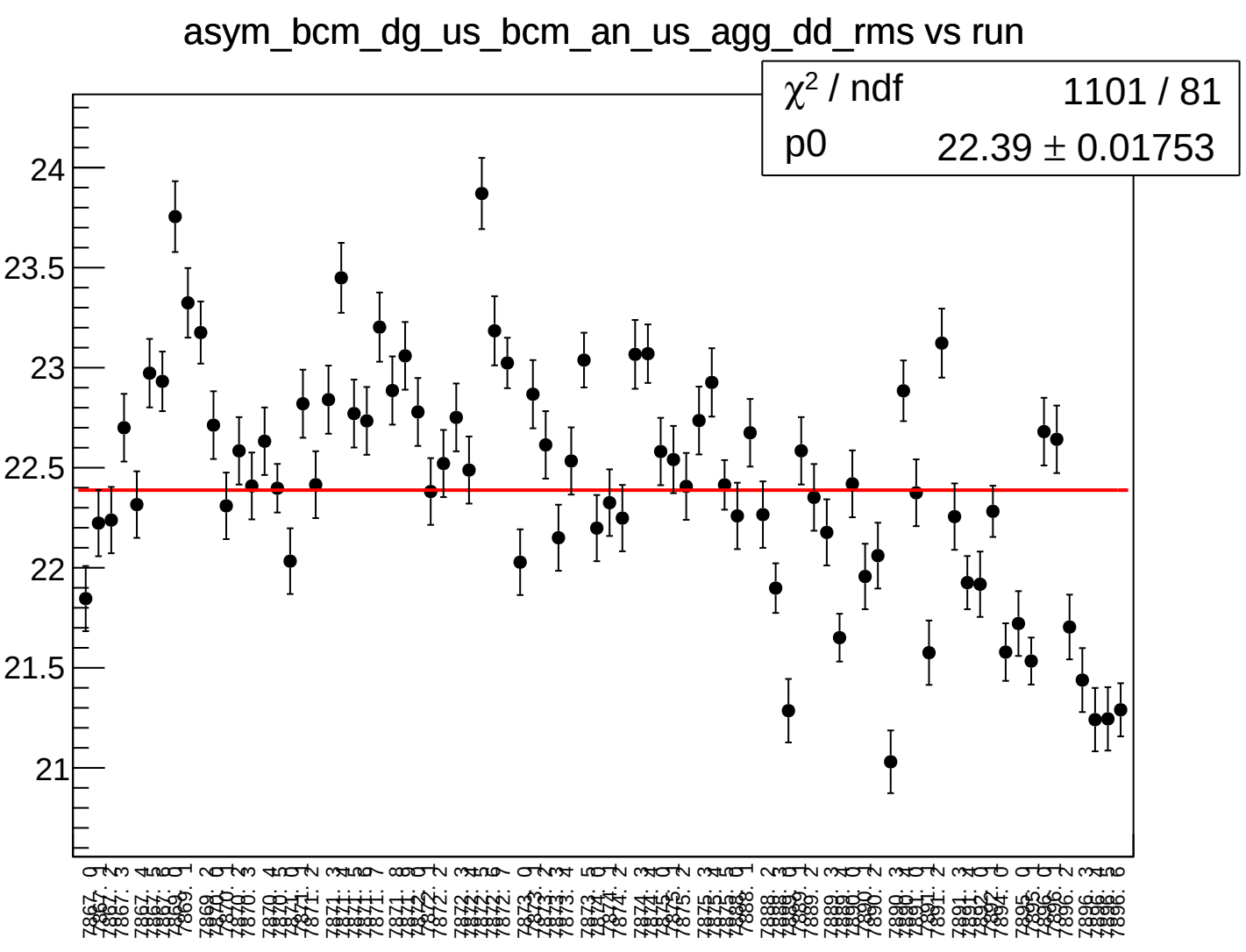

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2805 / 81
p0 16.69 ± 0.01308
19
18.5
18
17.5
17
16.5
16
15.5

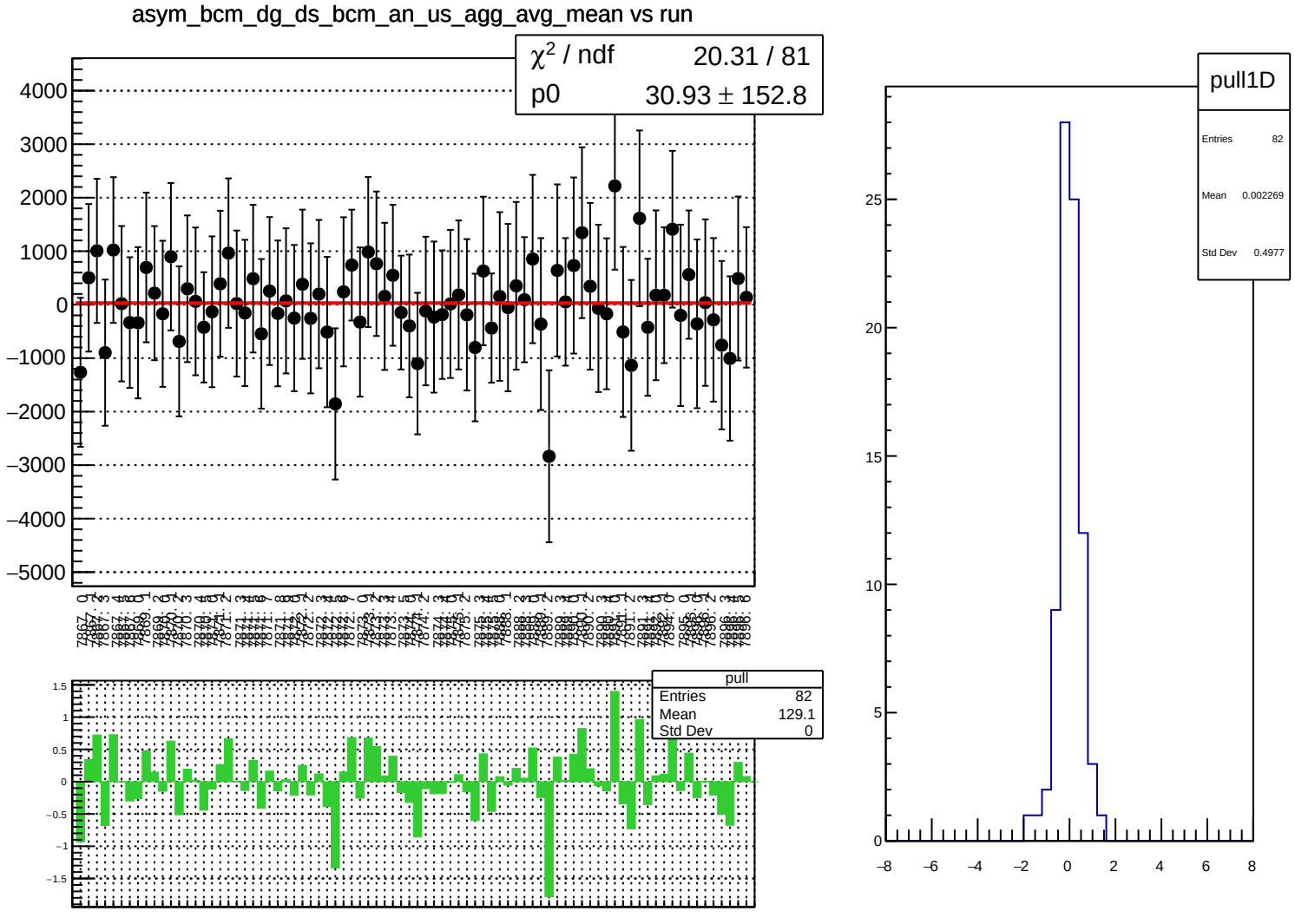

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.85 / 81
p0 14.23 ± 153.5
pull
Entries 82
Mean 62.73
Std Dev 92.96

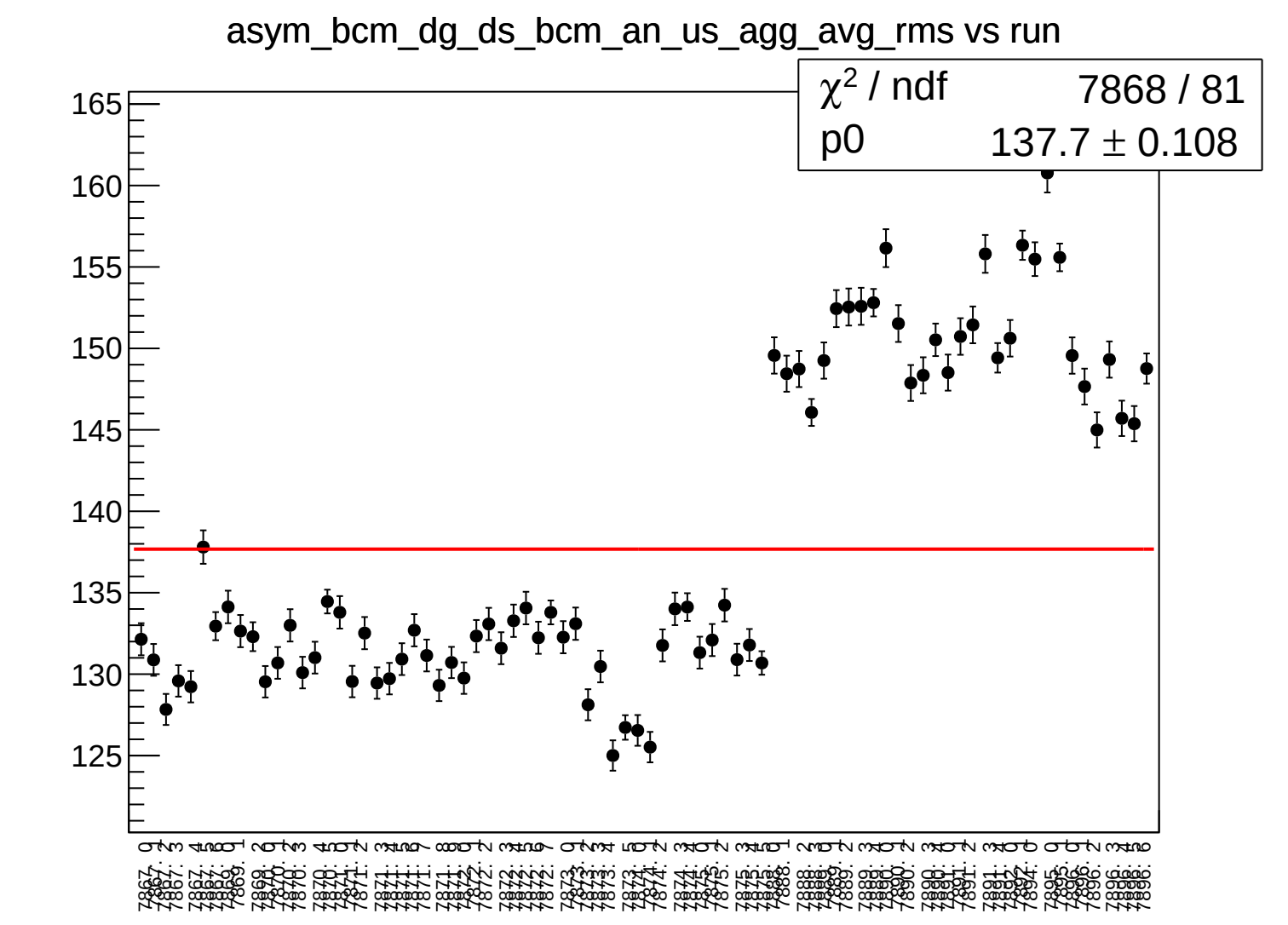

pull1D
Entries 82
Mean 0.002446
Std Dev 0.5161

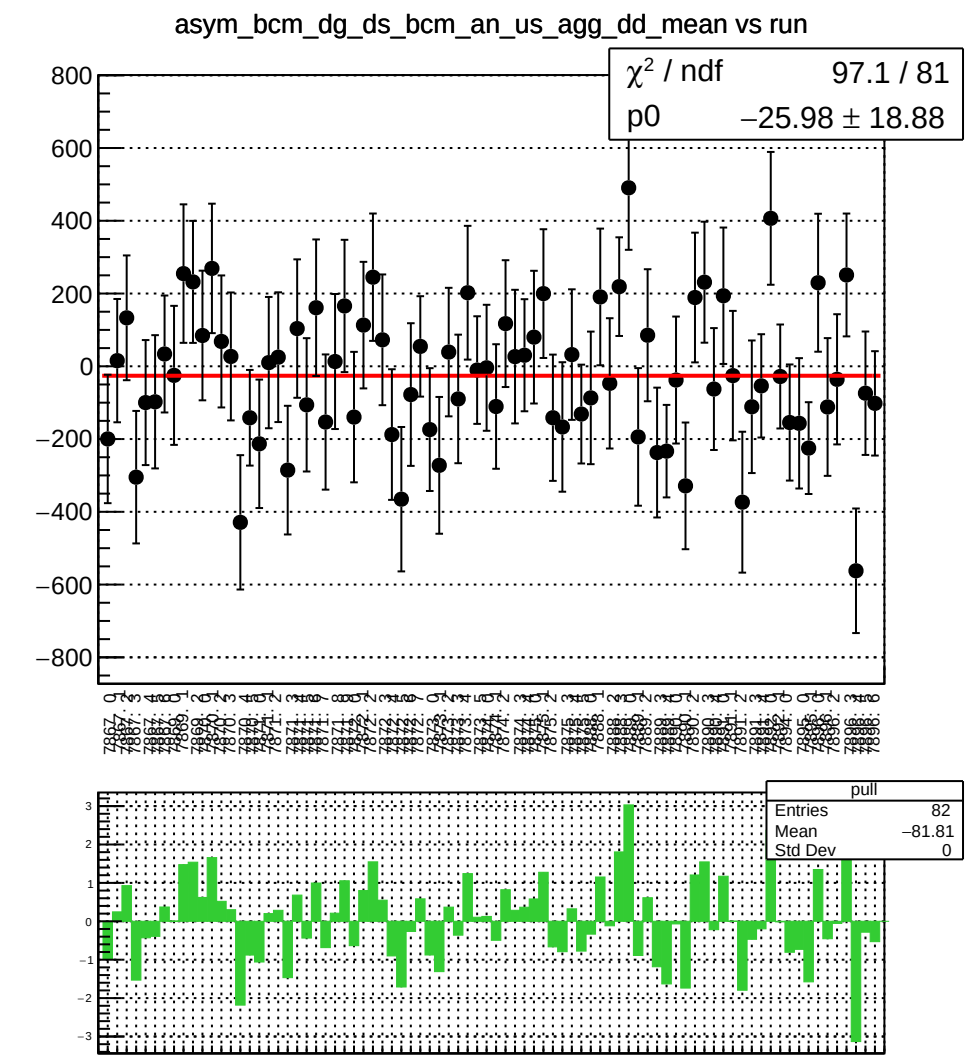

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7470 / 81
p0 138.4 ± 0.1086
165
160
155
150
145
140
135
130
125

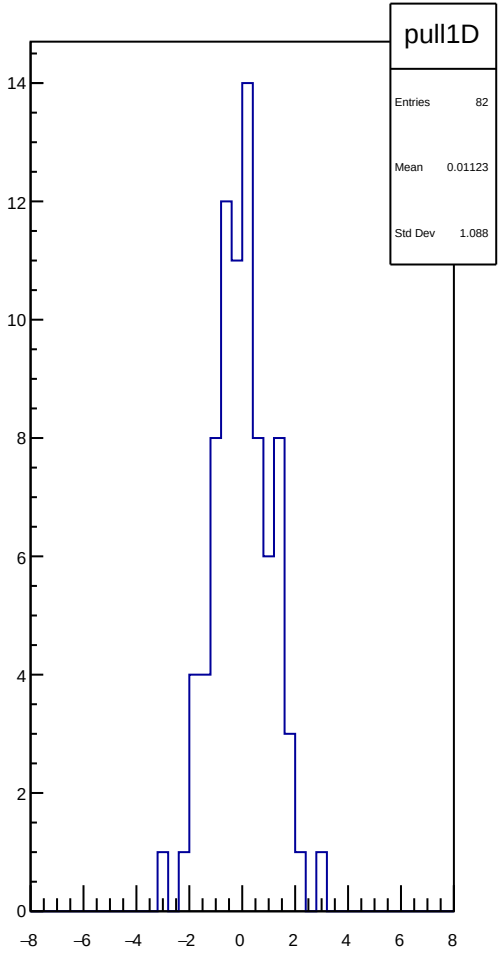

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 108.2 / 81
p0 −41.31 ± 24.79
1000
500
0
−500
−1000
pull
Entries 82
Mean −313.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005274
Std Dev 1.149
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

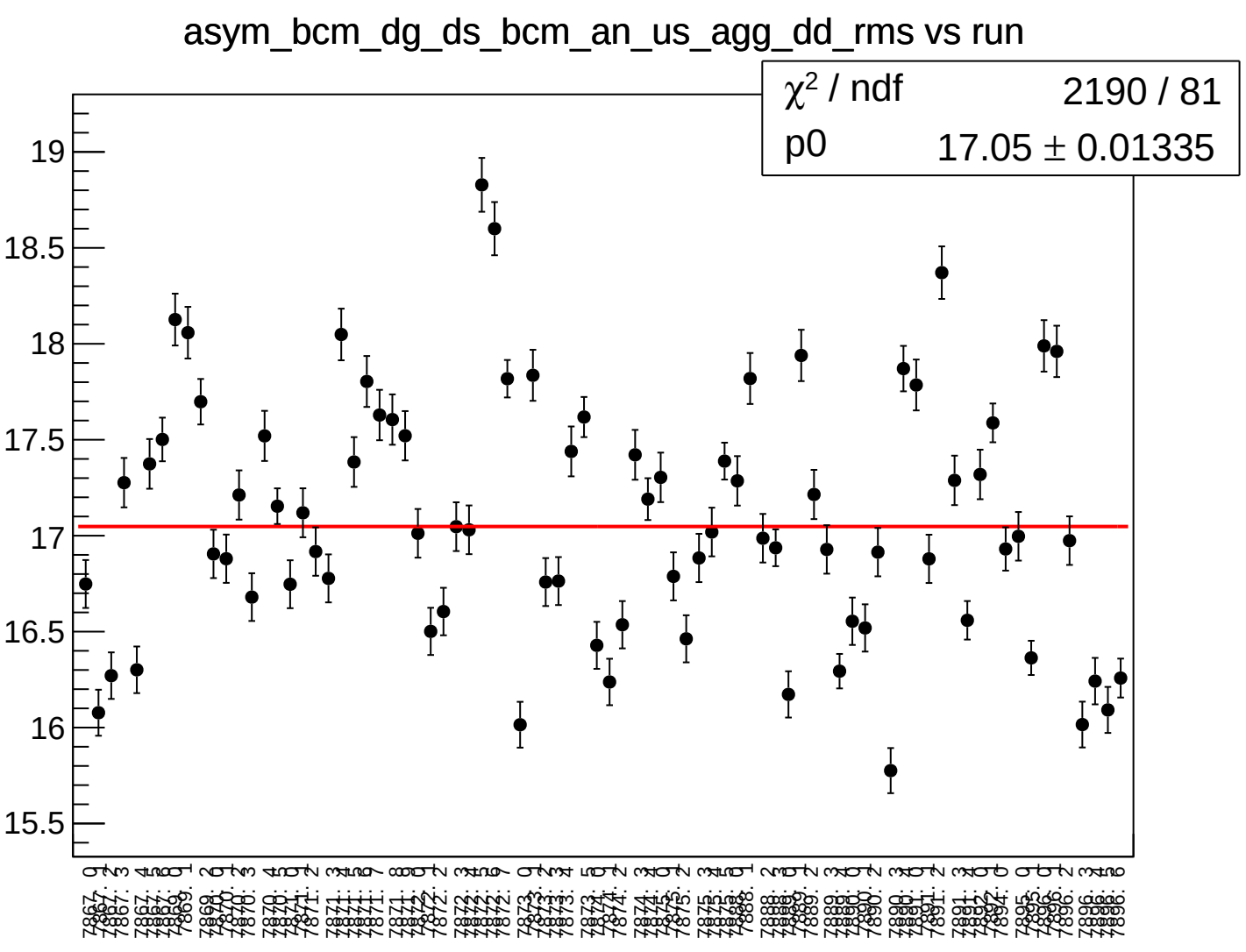

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1101 / 81
p0 22.39 ± 0.01753
24
23.5
23
22.5
22
21.5
21

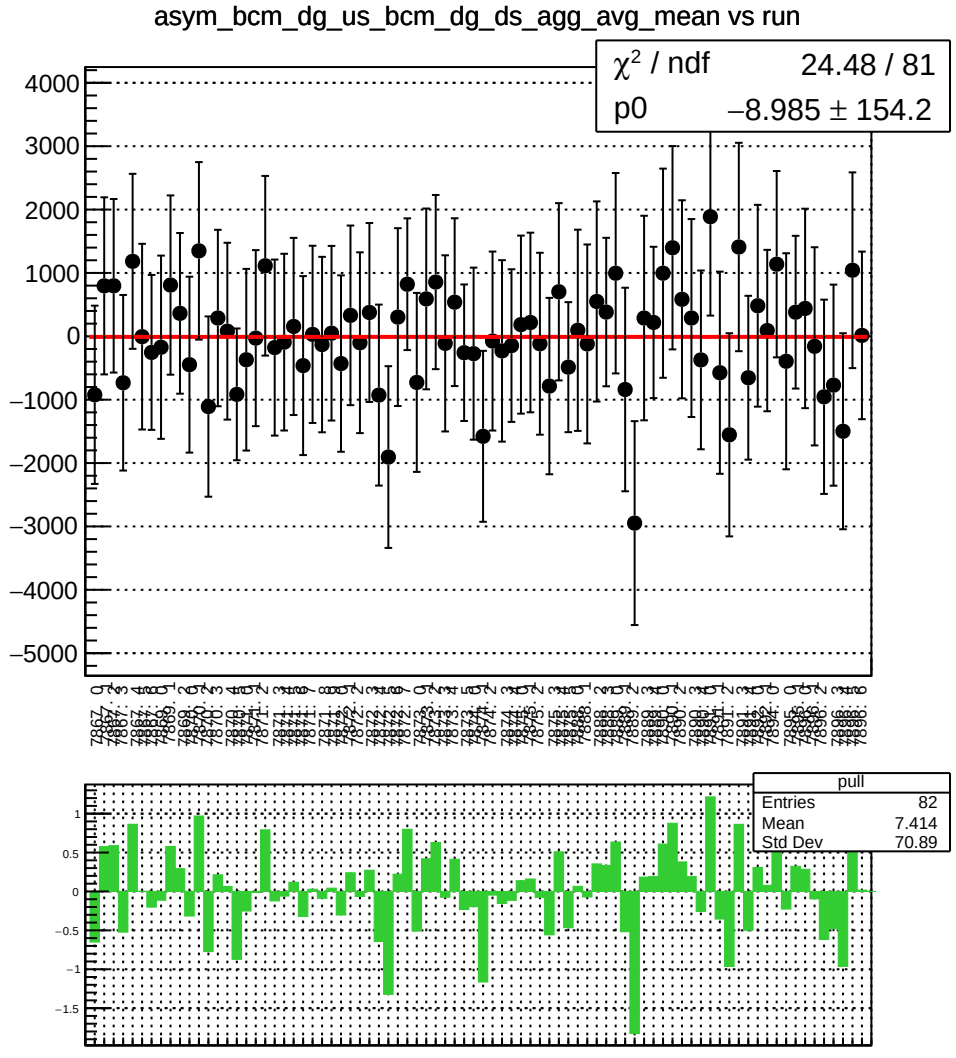

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.31 / 81
p0 30.93 ± 152.8
pull
Entries 82
Mean 129.1
Std Dev 0
pull1D
Entries 82
Mean 0.002269
Std Dev 0.4977

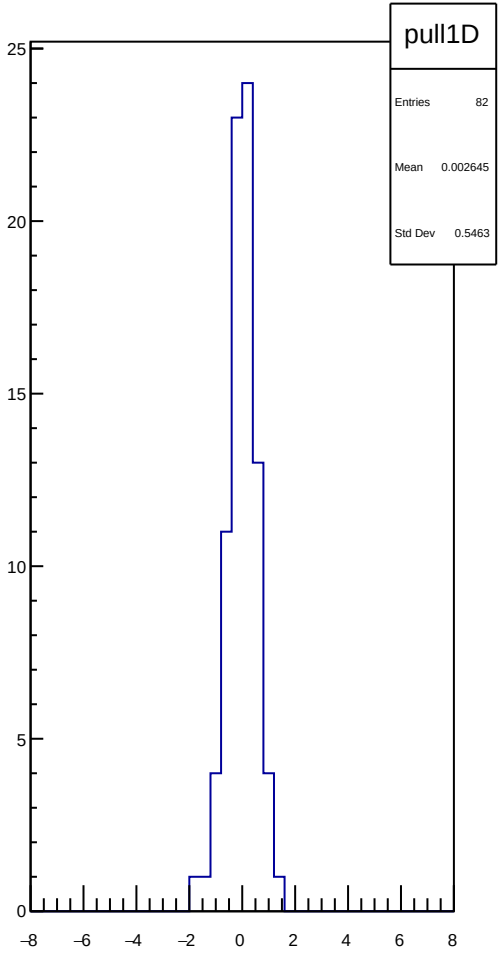

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7868 / 81
p0 137.7 ± 0.108
165
160
155
150
145
140
135
130
125

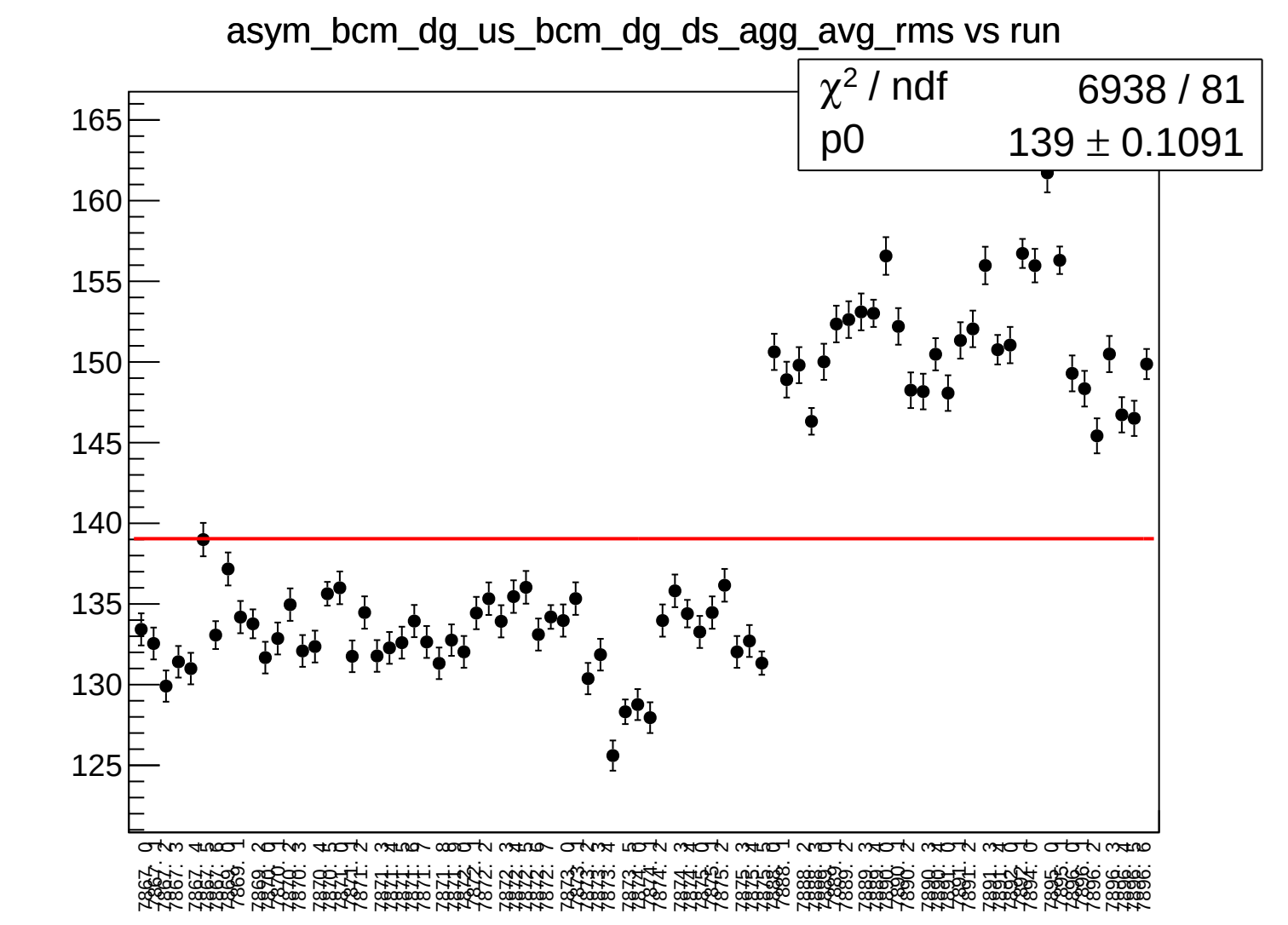

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 97.1 / 81
p0 −25.98 ± 18.88
pull
Entries 82
Mean −81.81
Std Dev 0

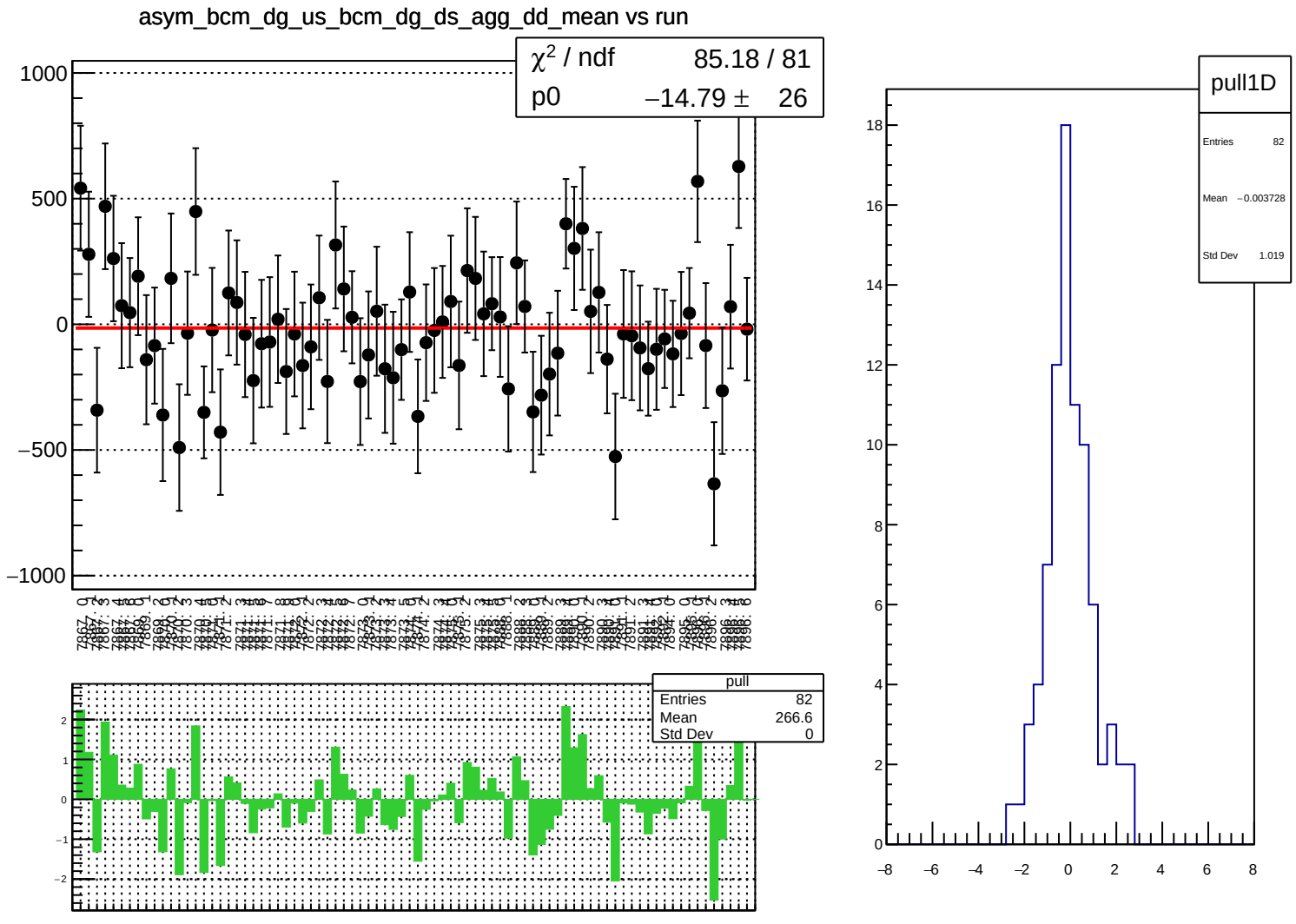

pull1D
Entries 82
Mean 0.01123
Std Dev 1.088

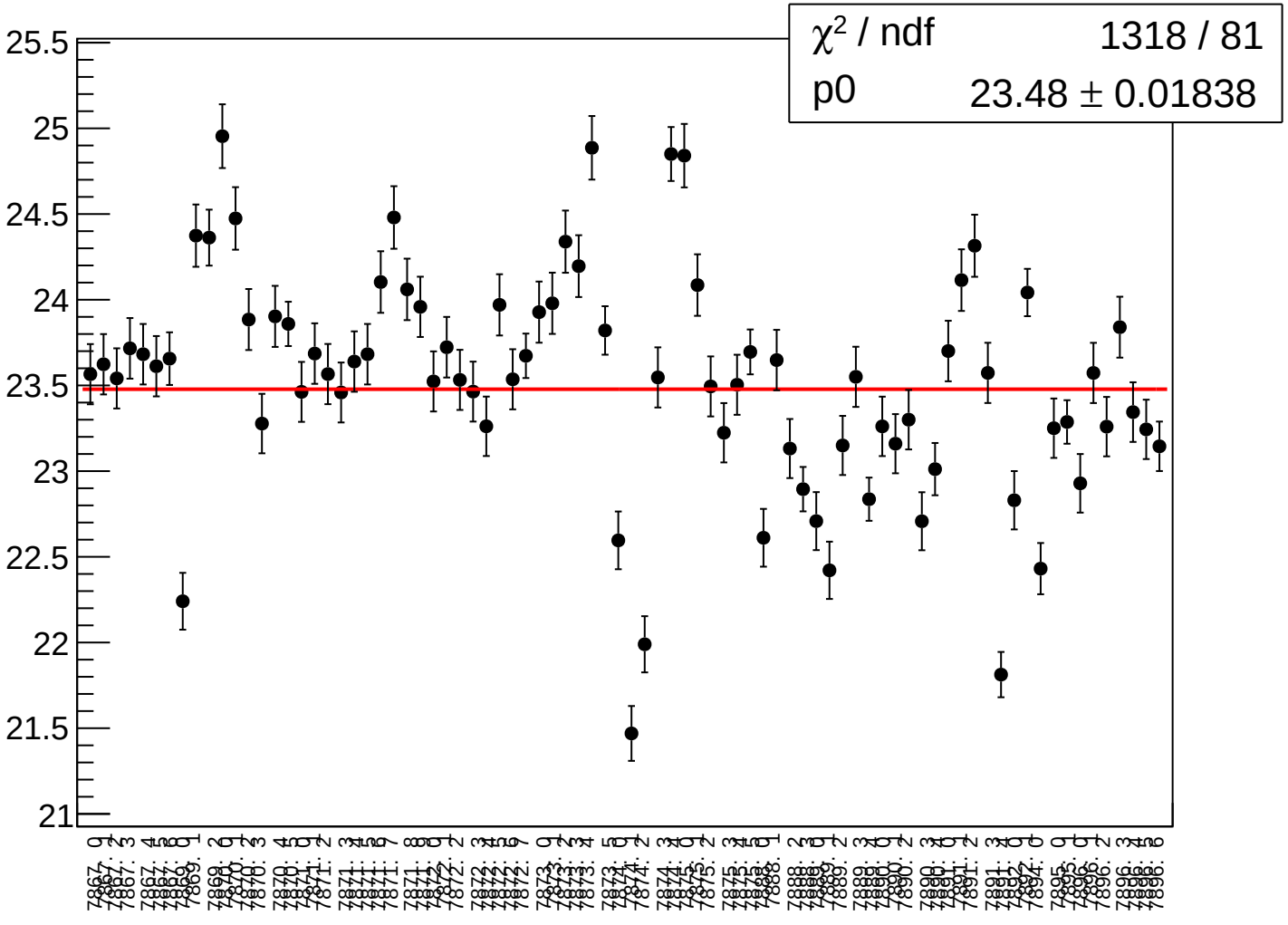

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2190 / 81
p0 17.05 ± 0.01335
19
18.5
18
17.5
17
16.5
16
15.5

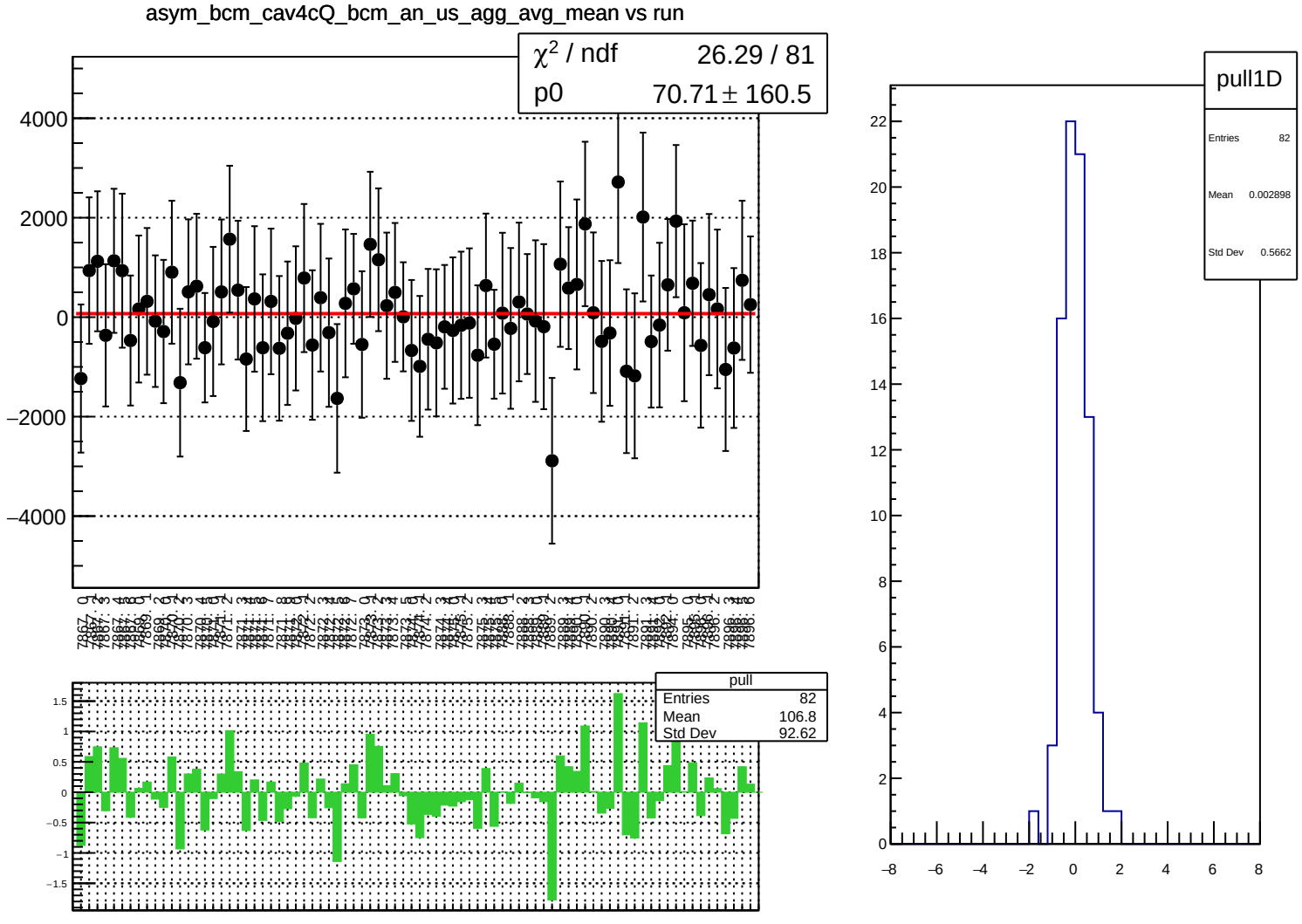

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.48 / 81
p0 −8.985 ± 154.2
pull
Entries 82
Mean 7.414
Std Dev 70.89

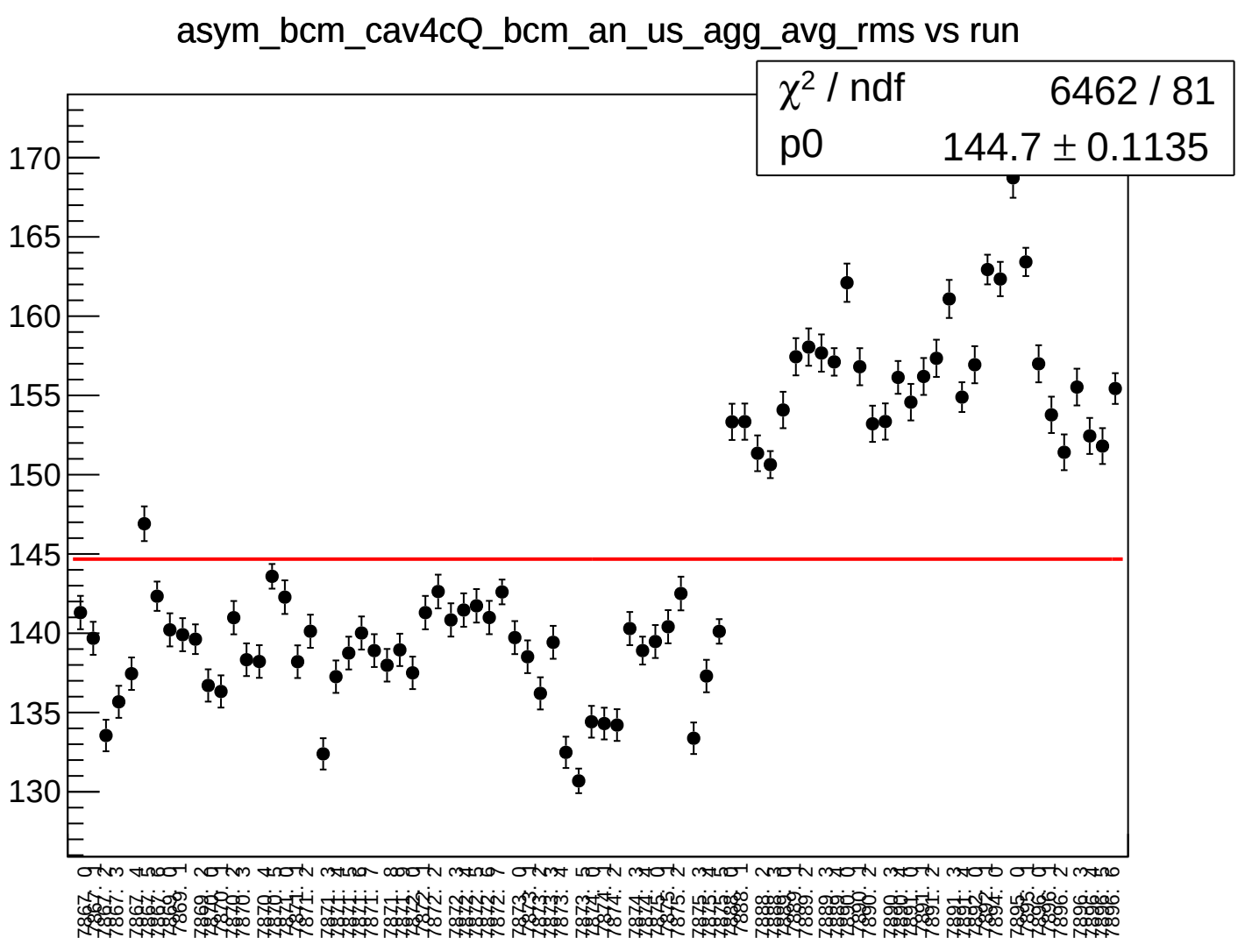

pull1D
Entries 82
Mean 0.002645
Std Dev 0.5463

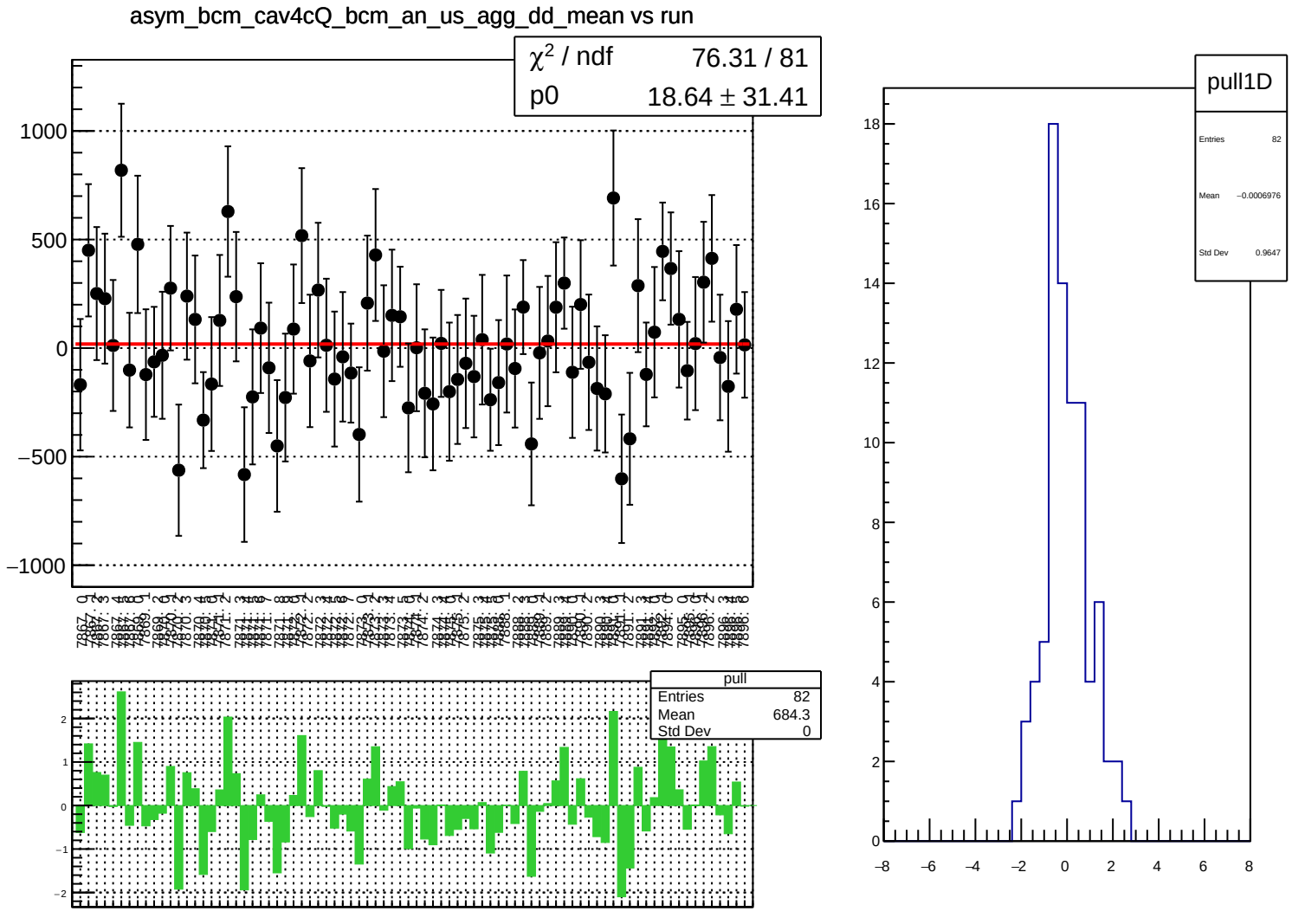

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6938 / 81
p0 139 ± 0.1091
165
160
155
150
145
140
135
130
125

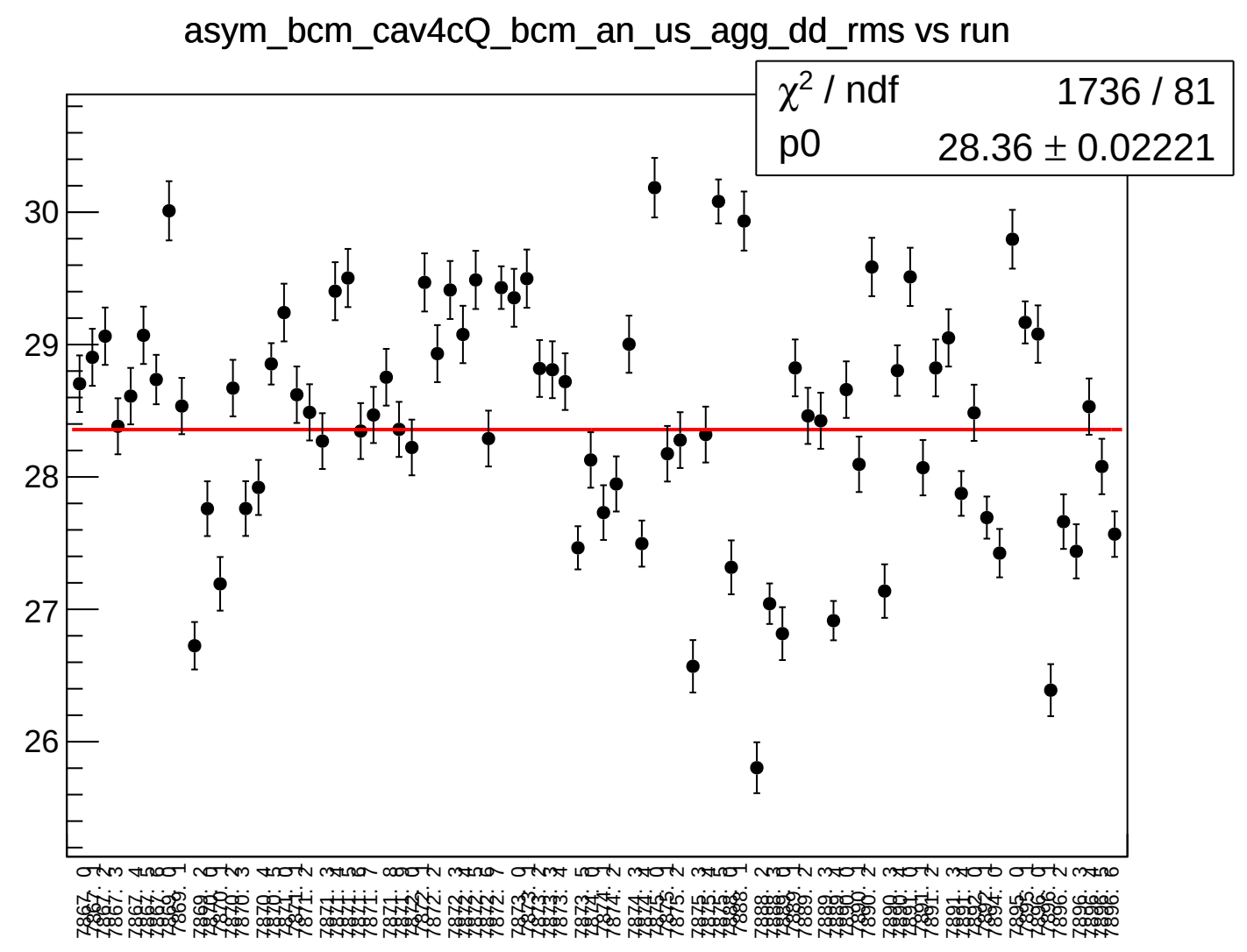

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 85.18 / 81
p0 −14.79 ± 26
1000
500
0
−500
−1000
pull
Entries 82
Mean 266.6
Std Dev 0
pull1D
Entries 82
Mean −0.003728
Std Dev 1.019

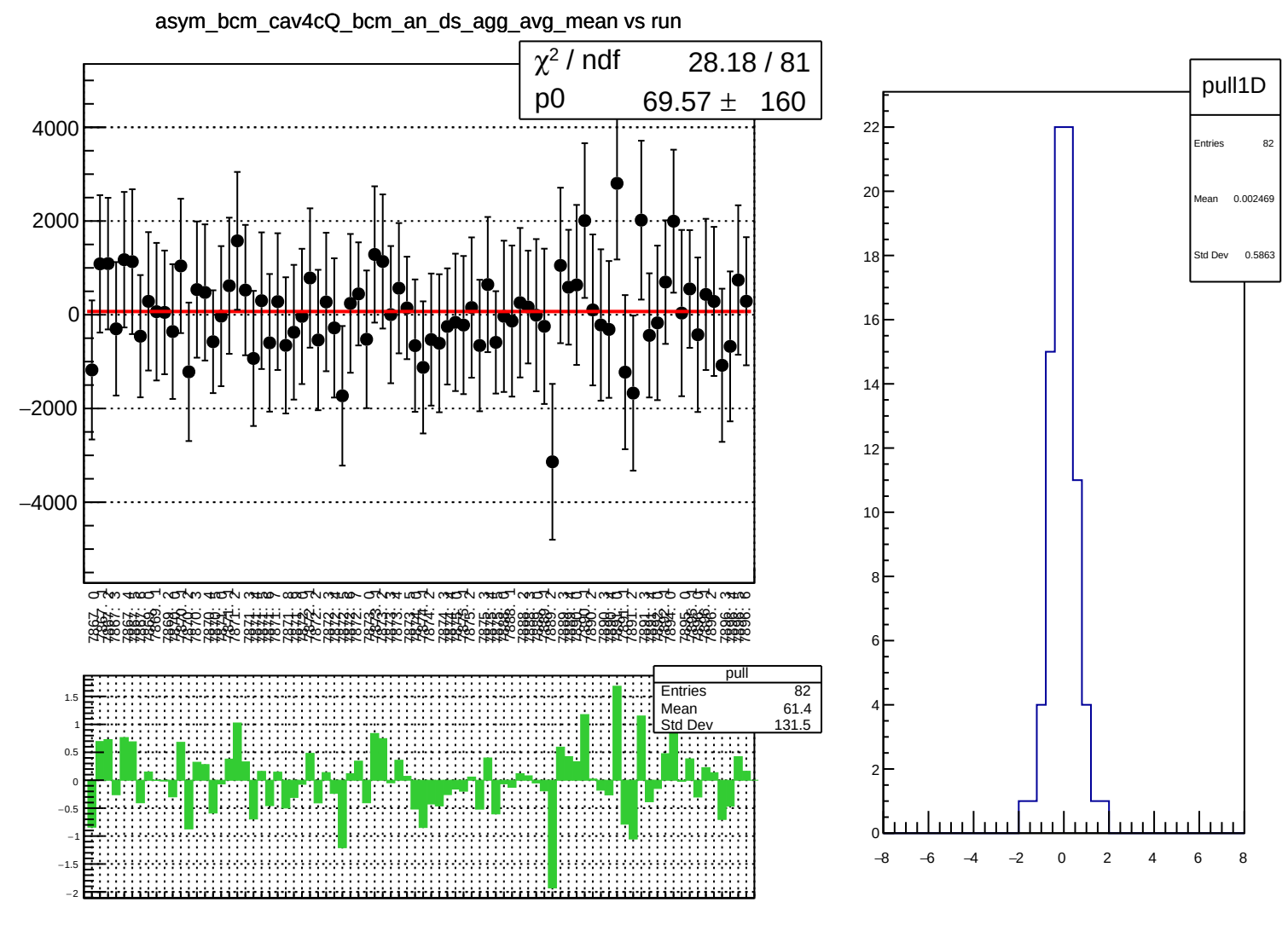

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1318 / 81
p0 23.48 ± 0.01838
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

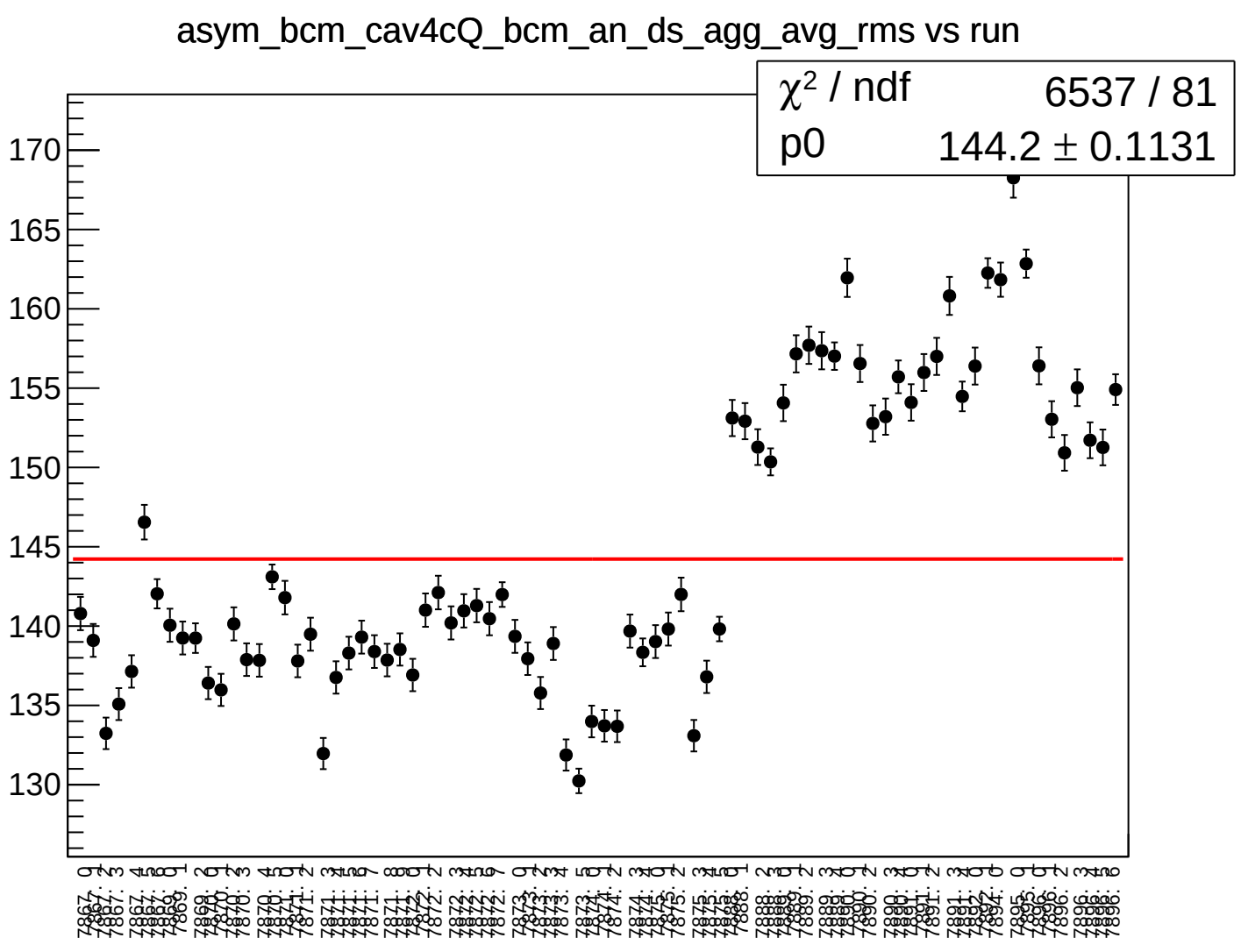

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.29 / 81
p0 70.71 ± 160.5
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 106.8
Std Dev 92.62
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.002898
Std Dev 0.5662
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

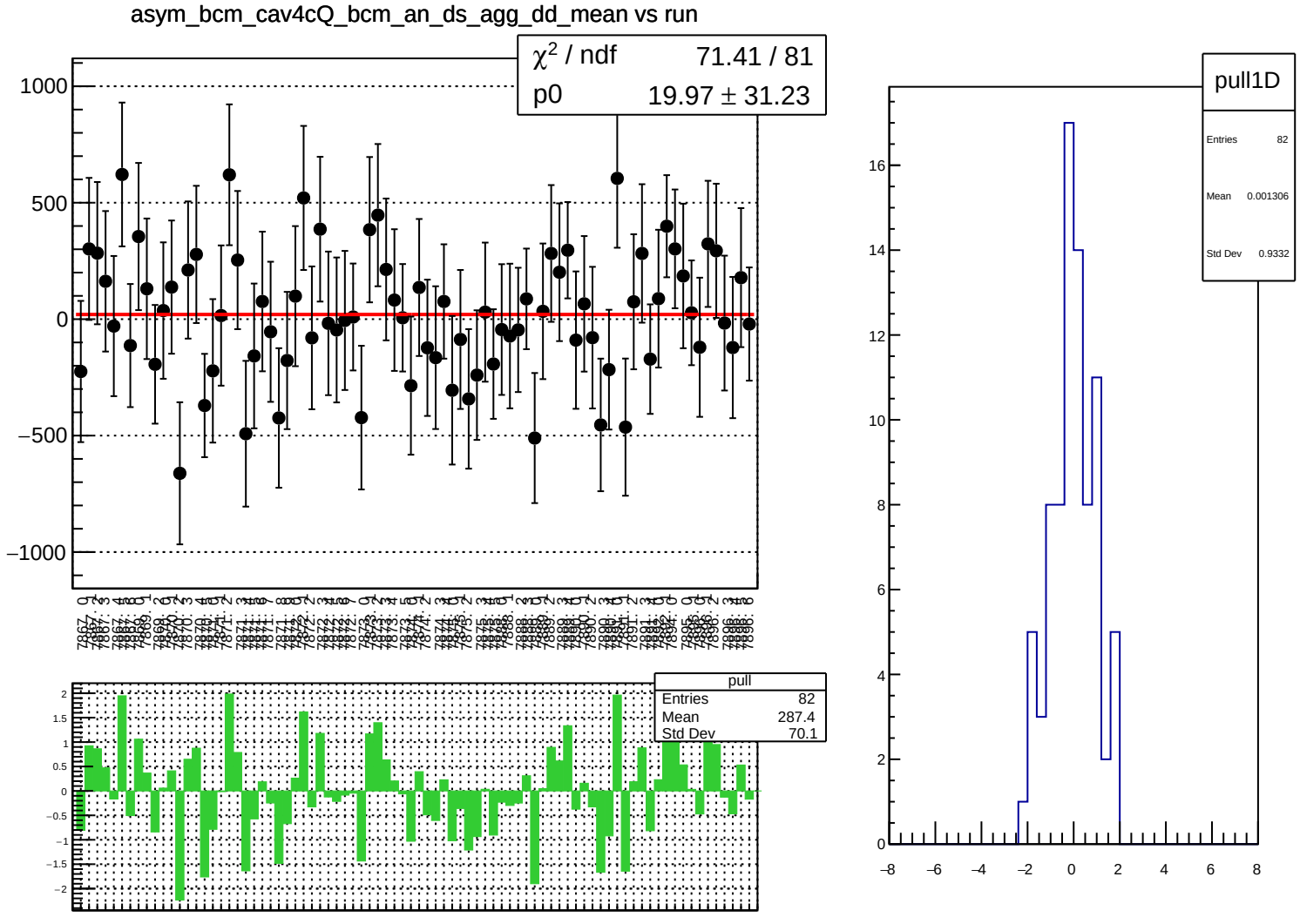

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6462 / 81
p0 144.7 ± 0.1135
170
165
160
155
150
145
140
135
130

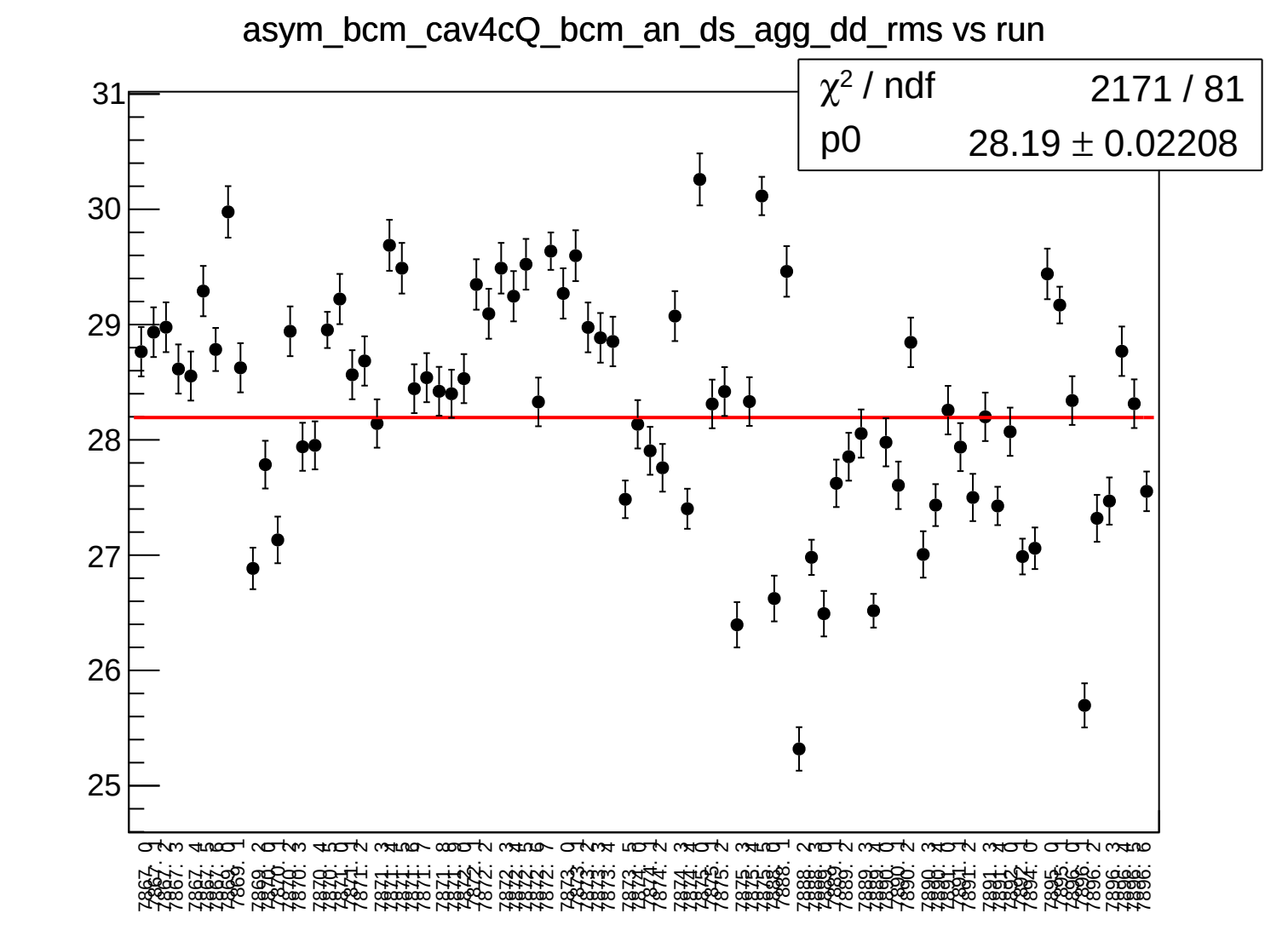

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 76.31 / 81
p0 18.64 ± 31.41
1000
500
0
−500
−1000
pull
Entries 82
Mean 684.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.0006976
Std Dev 0.9647
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

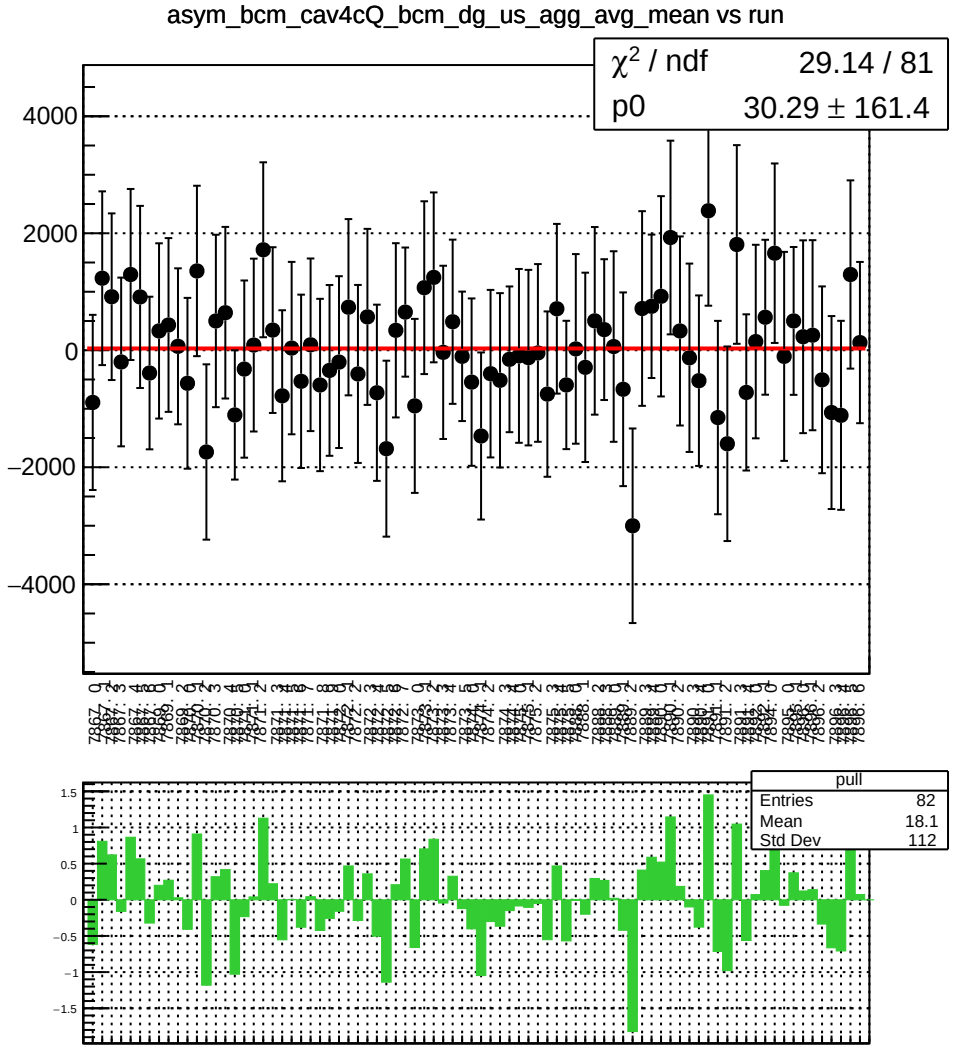

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1736 / 81
p0 28.36 ± 0.02221
30
29
28
27
26

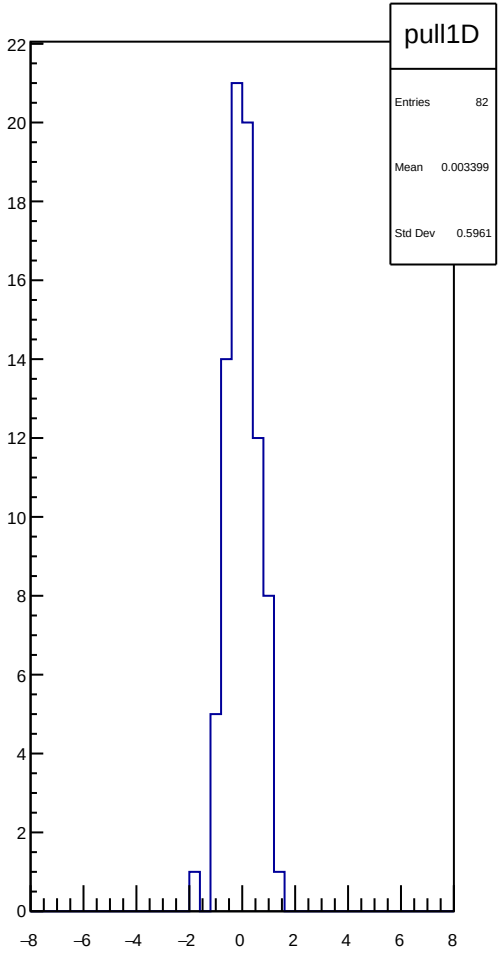

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 28.18 / 81
p0 69.57 ± 160
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 61.4
Std Dev 131.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.002469
Std Dev 0.5863
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

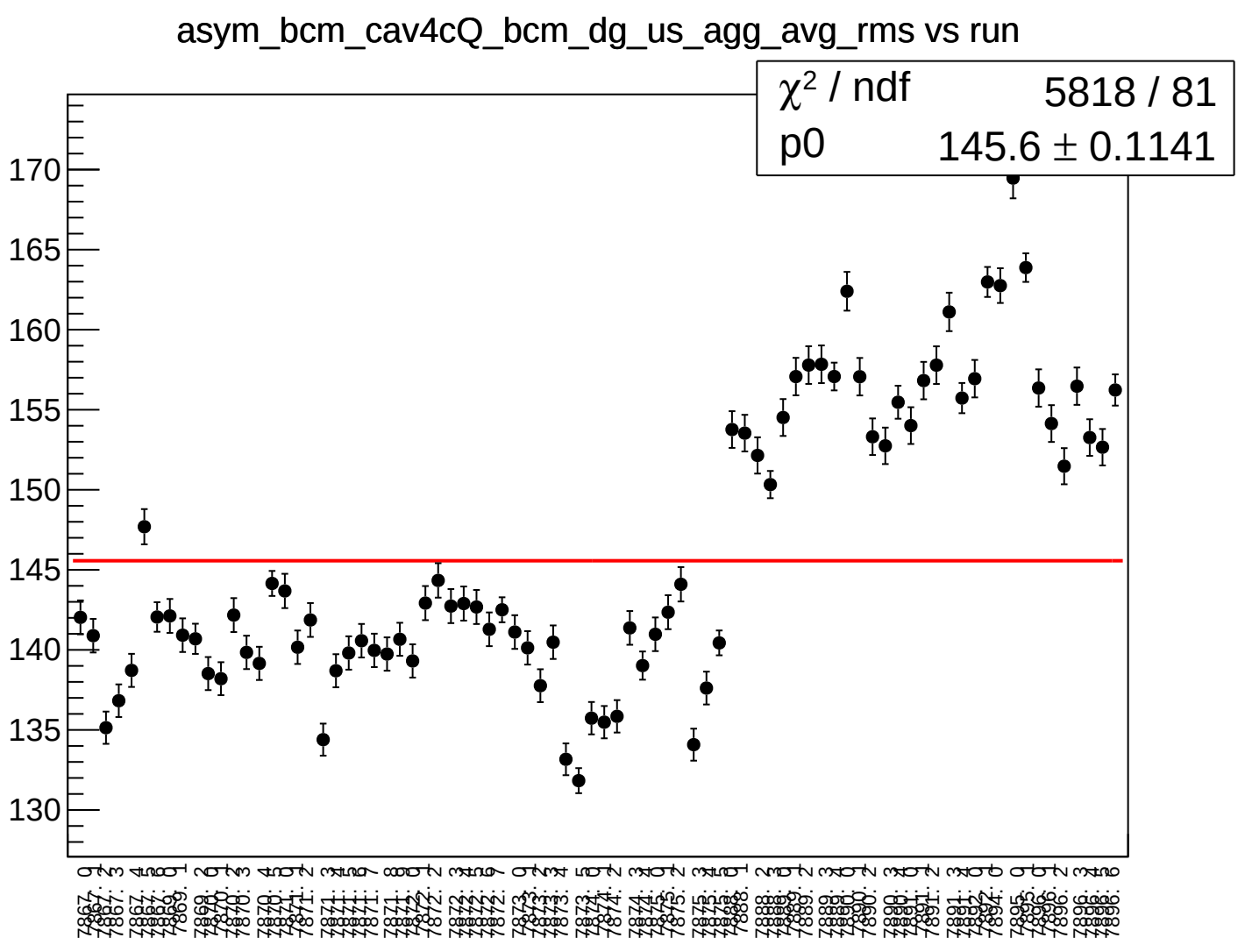

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6537 / 81
p0 144.2 ± 0.1131
170
165
160
155
150
145
140
135
130

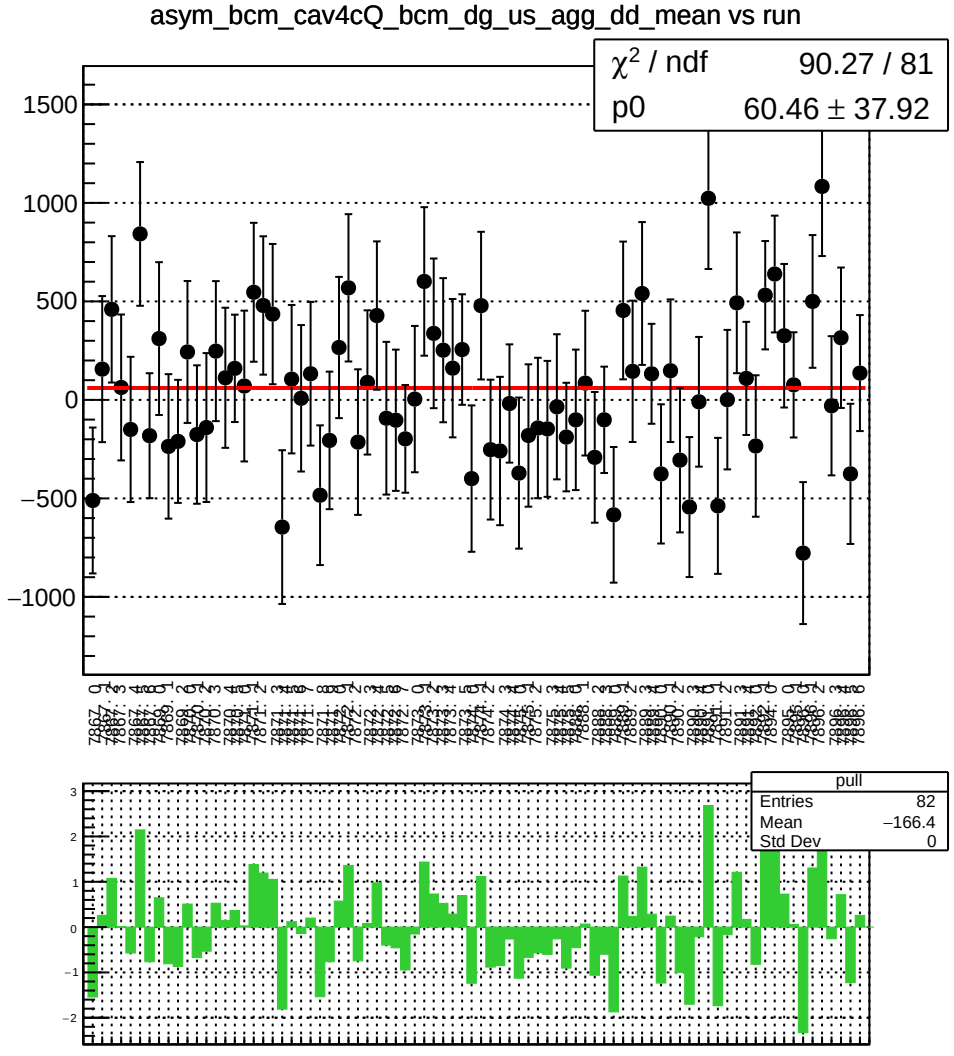

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.41 / 81
p0 19.97 ± 31.23
1000
500
0
−500
−1000
pull
Entries 82
Mean 287.4
Std Dev 70.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.001306
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

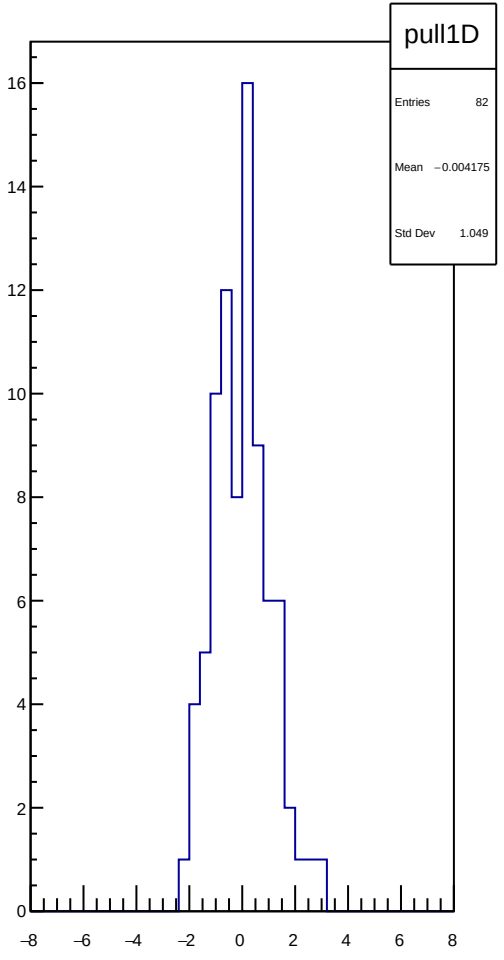

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2171 / 81
p0 28.19 ± 0.02208
31
30
29
28
27
26
25

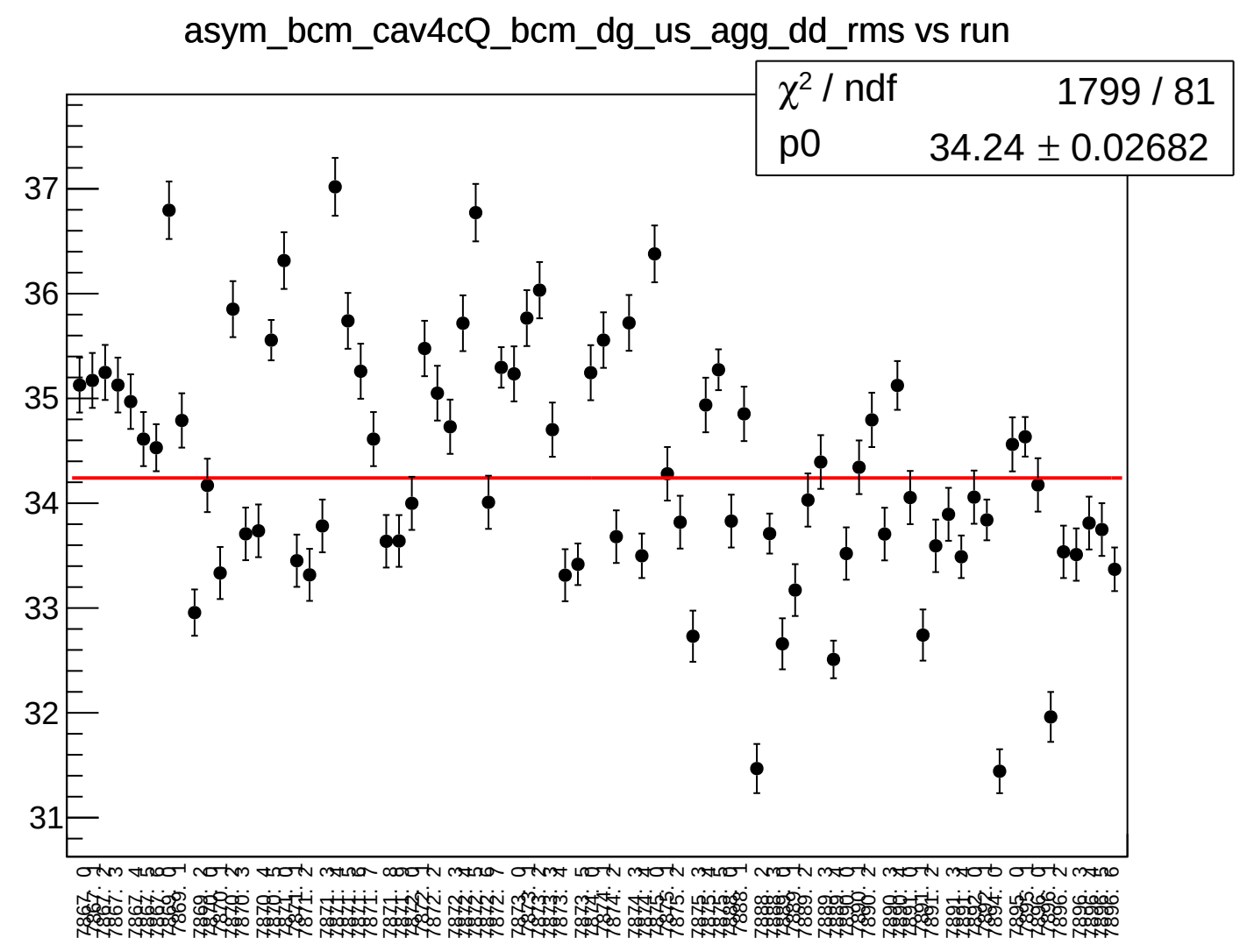

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 29.14 / 81
p0 30.29 ± 161.4
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 18.1
Std Dev 112
1.5
1
0.5
0
−0.5
−1
−1.5

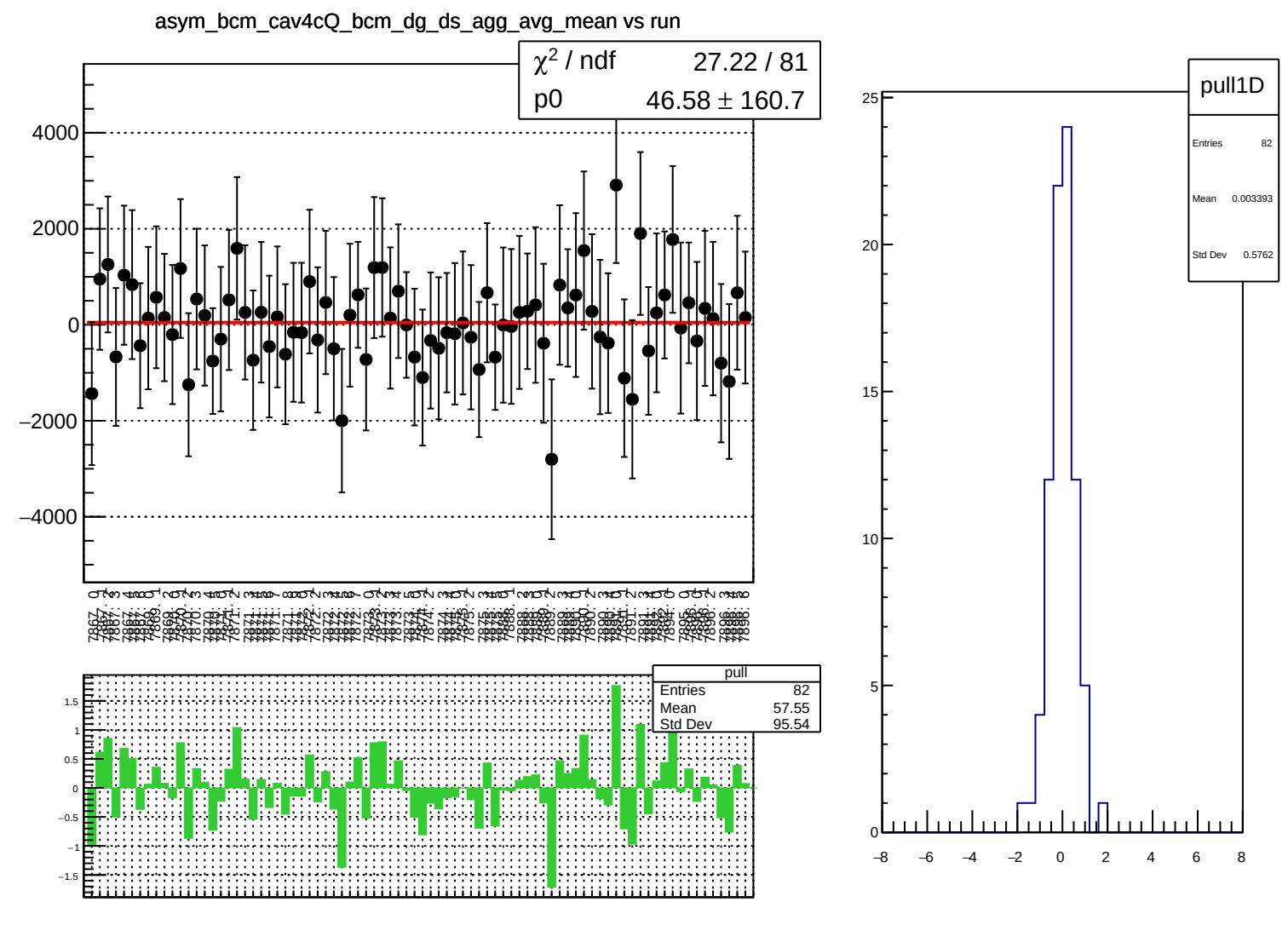

pull1D
Entries 82
Mean 0.003399
Std Dev 0.5961
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

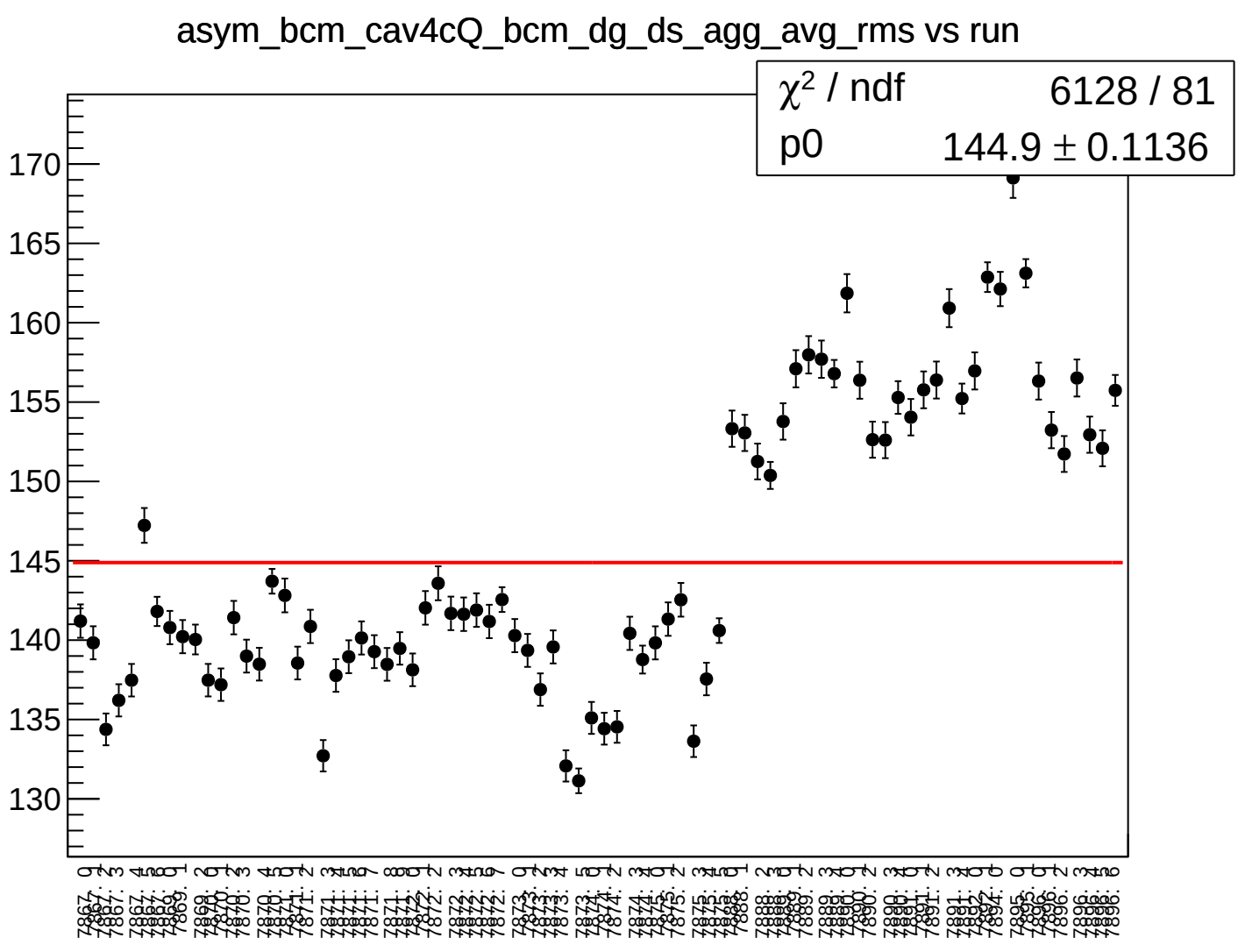

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 5818 / 81
p0 145.6 ± 0.1141
170
165
160
155
150
145
140
135
130

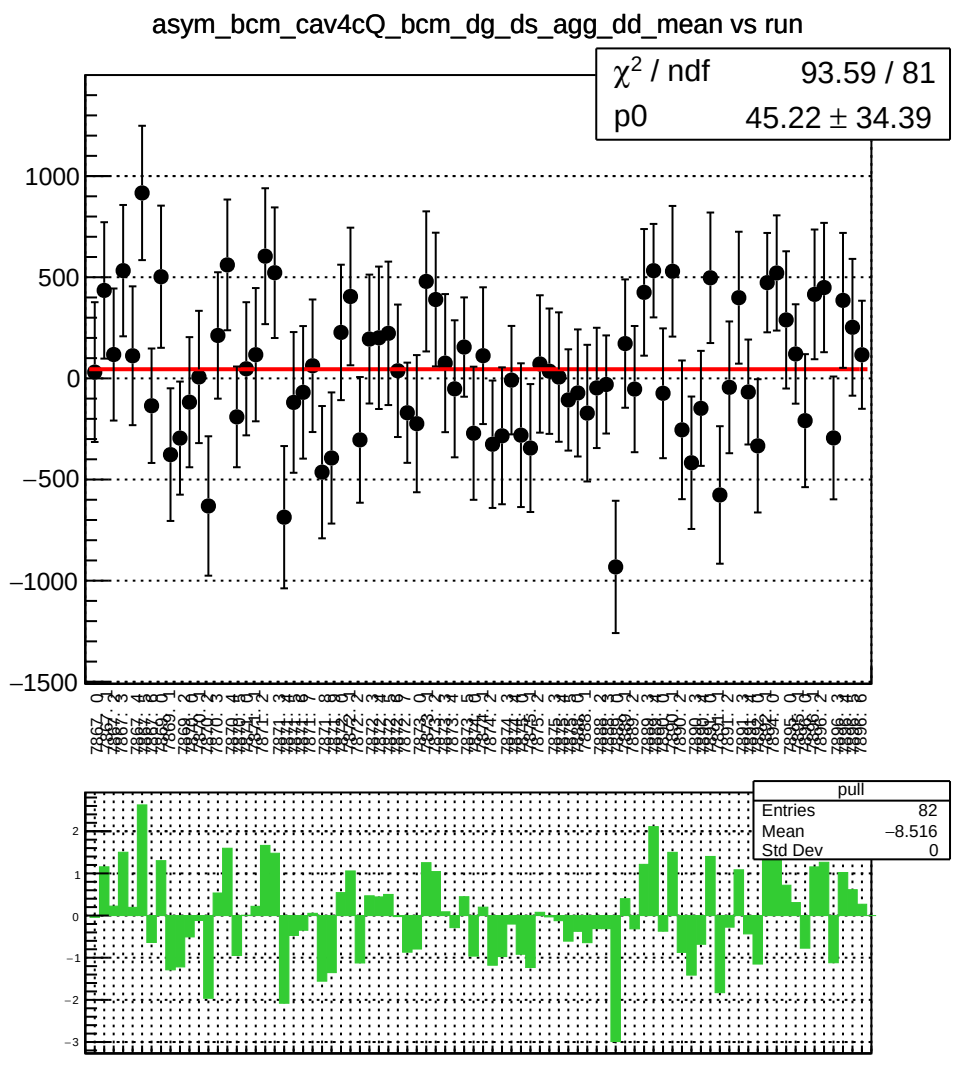

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.27 / 81
p0 60.46 ± 37.92
1500
1000
500
0
−500
−1000
pull
Entries 82
Mean −166.4
Std Dev 0
3
2
1
0
−1
−2

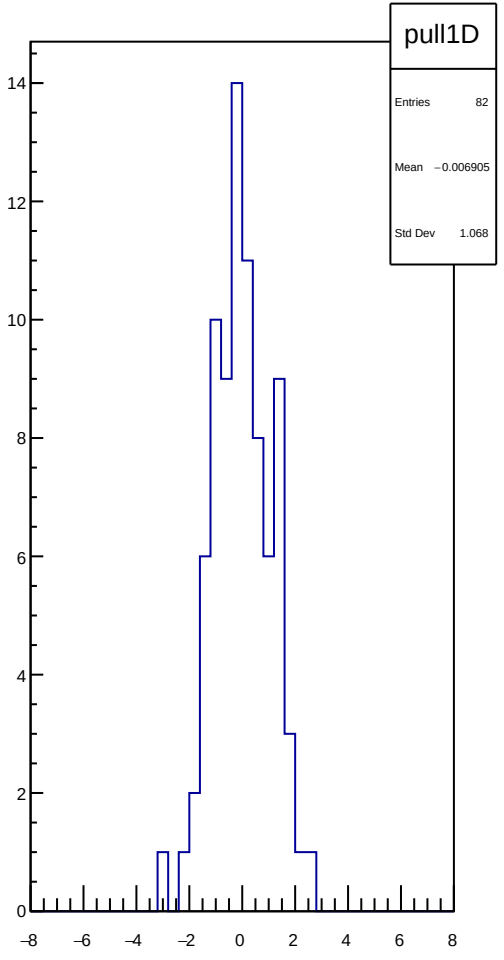

pull1D
Entries 82
Mean −0.004175
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

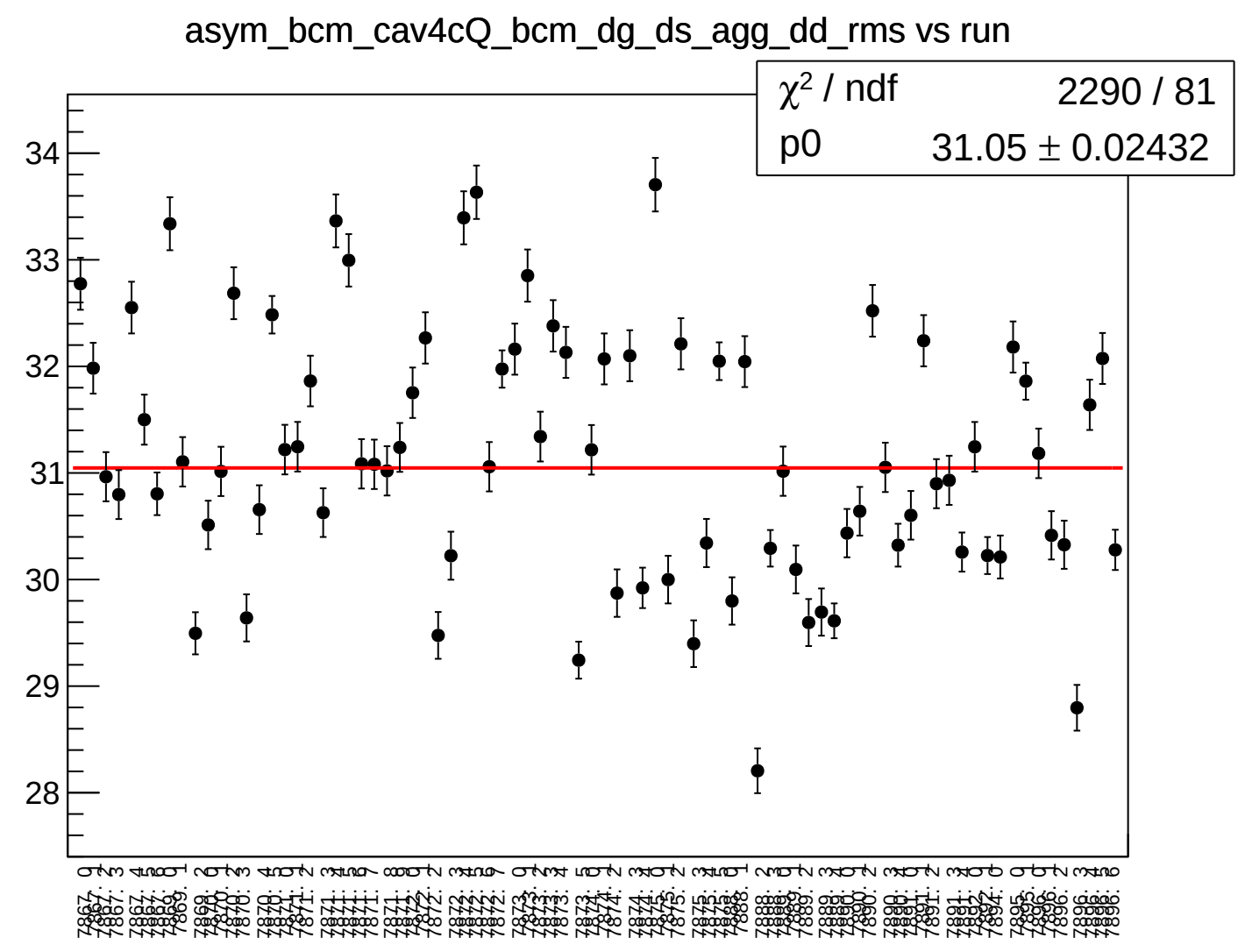

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1799 / 81
p0 34.24 ± 0.02682
37
36
35
34
33
32
31

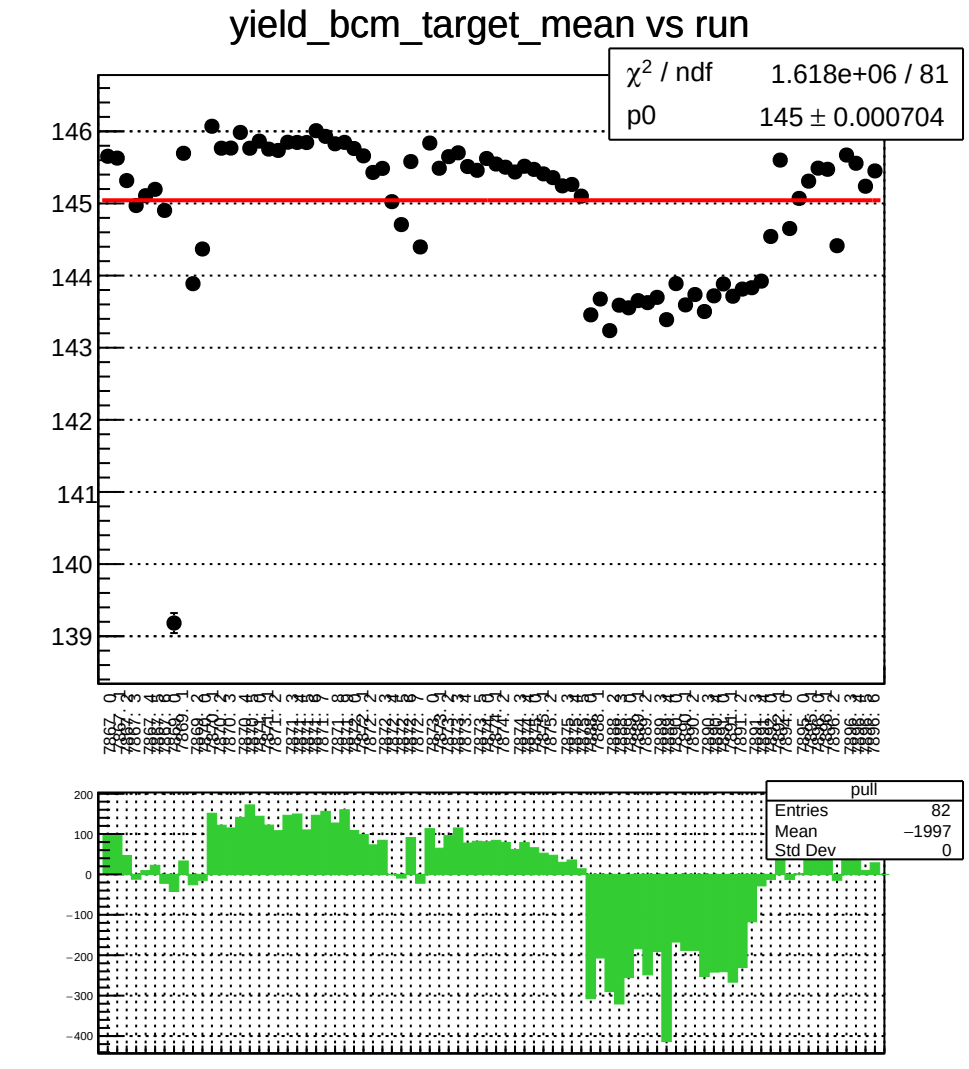

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.22 / 81
p0 46.58 ± 160.7
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 57.55
Std Dev 95.54
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.003393
Std Dev 0.5762
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

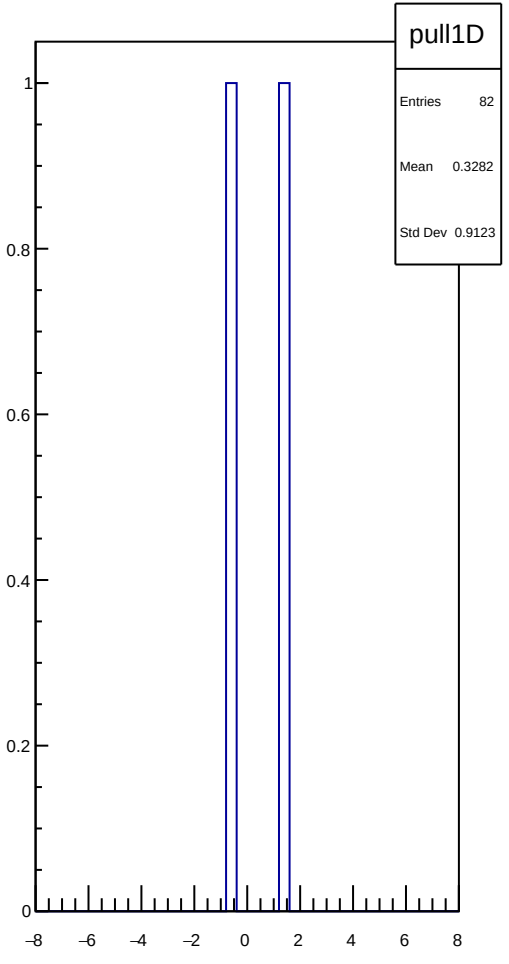

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6128 / 81
p0 144.9 ± 0.1136
170
165
160
155
150
145
140
135
130

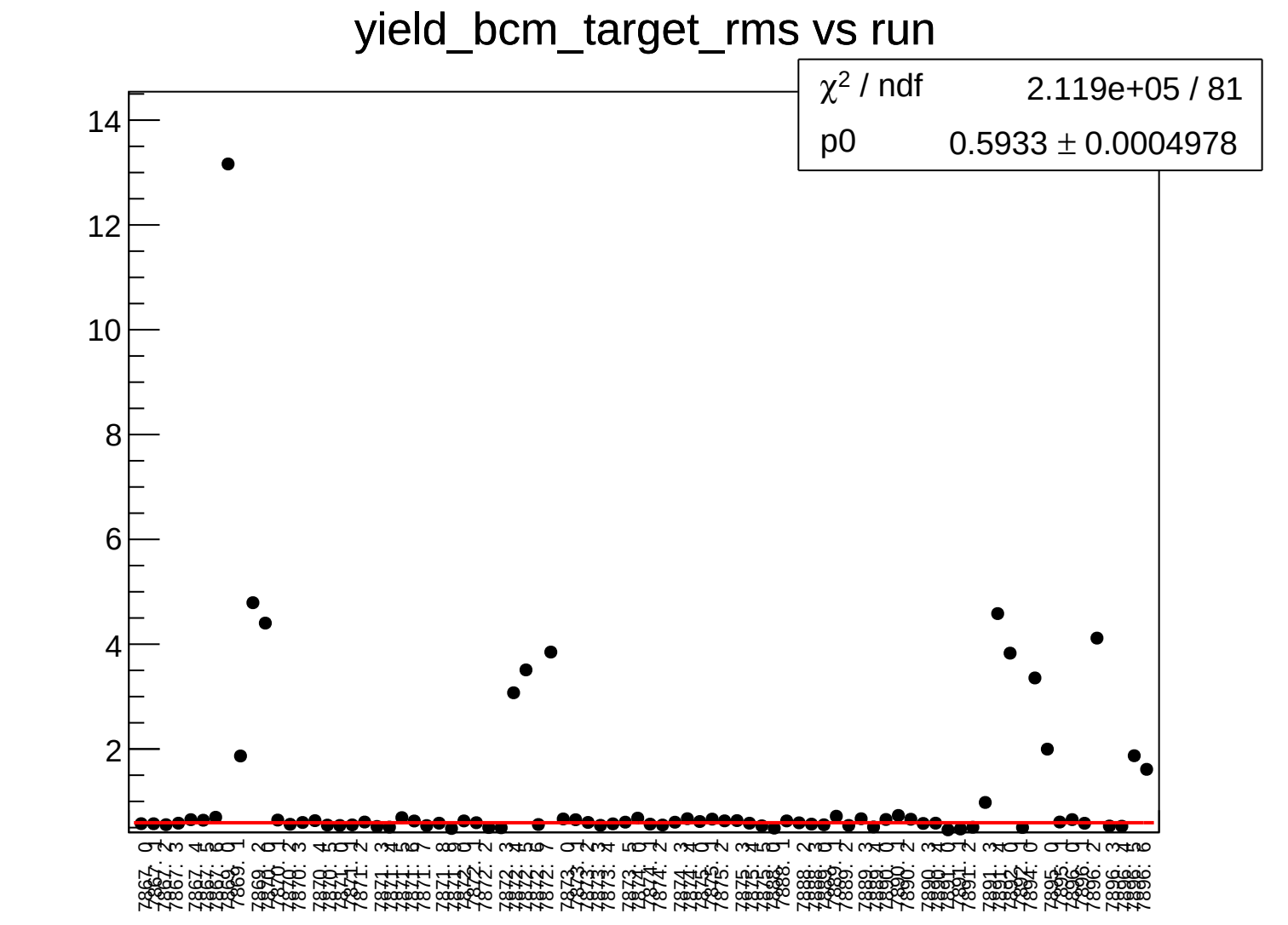

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 93.59 / 81
p0 45.22 ± 34.39
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean −8.516
Std Dev 0
2
1
0
−1
−2
−3

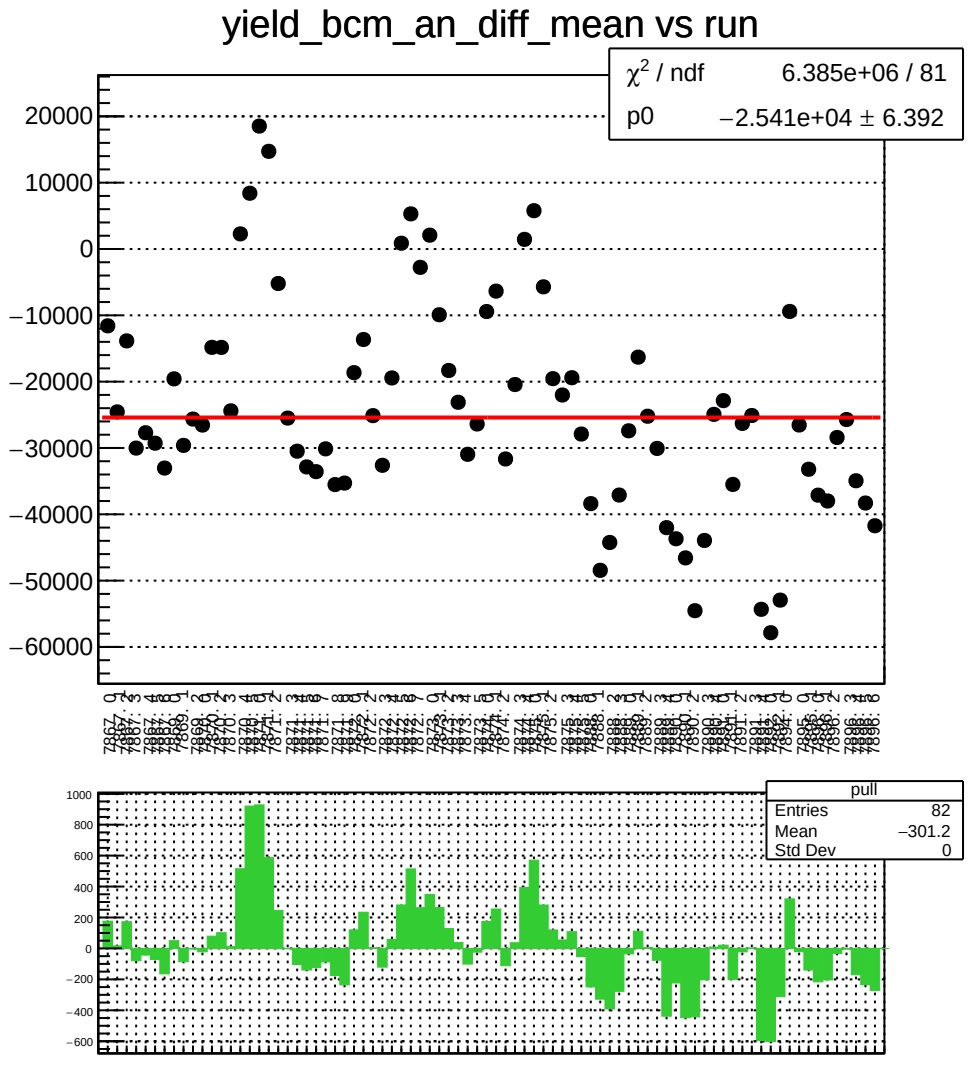

pull1D
Entries 82
Mean −0.006905
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

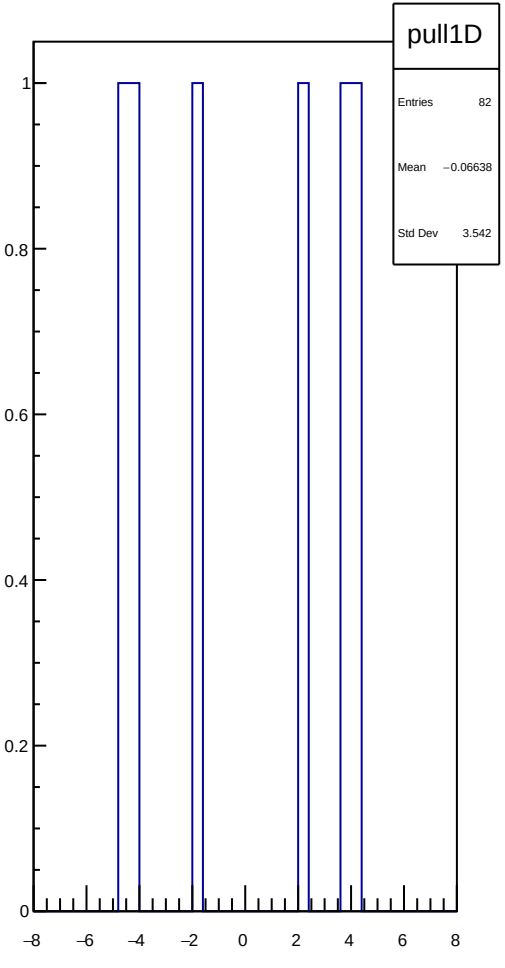

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2290 / 81
p0 31.05 ± 0.02432
34
33
32
31
30
29
28

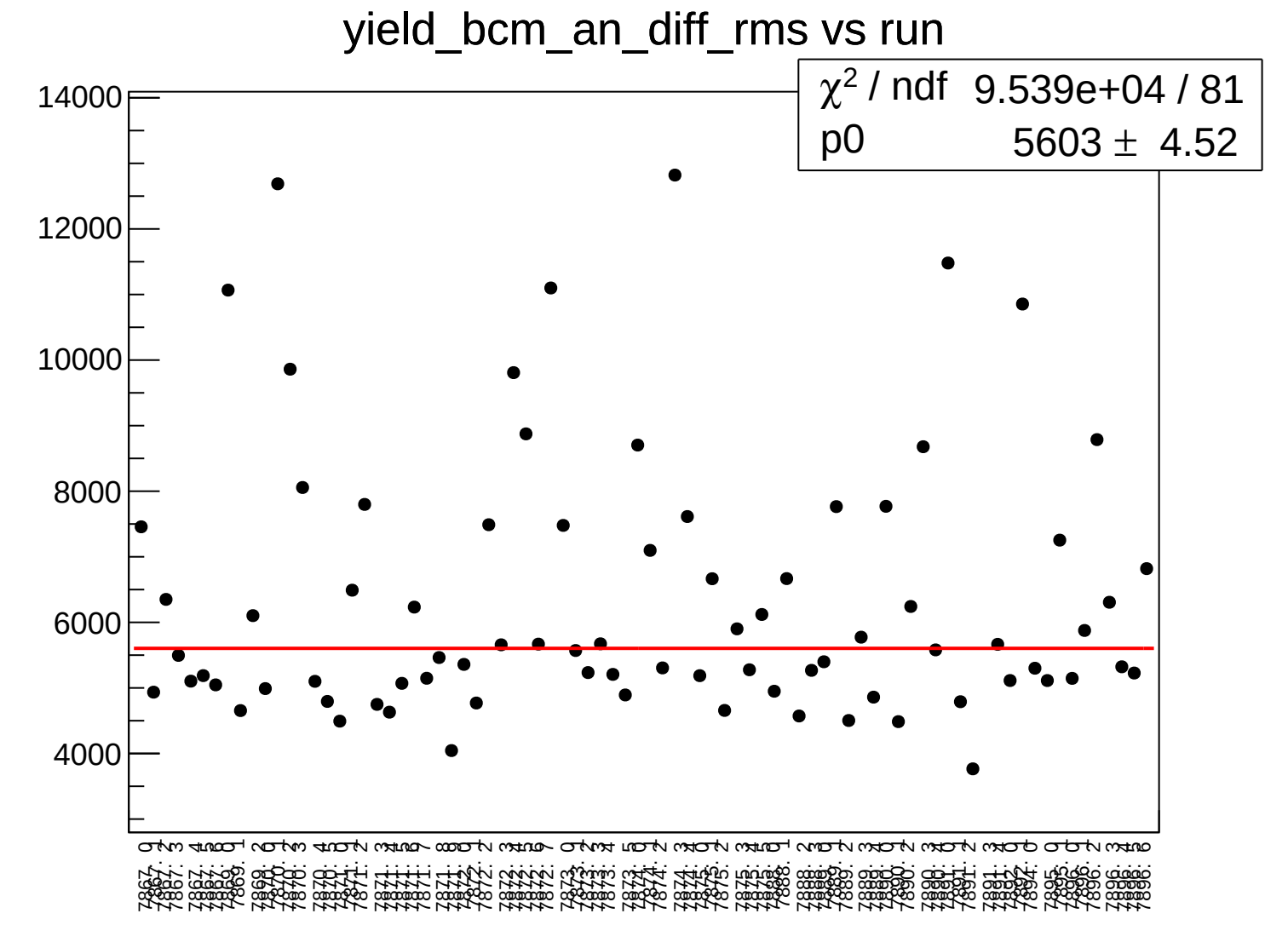

yield_bcm_target_mean vs run
χ² / ndf 1.618e+06 / 81
p0 145 ± 0.000704
146
145
144
143
142
141
140
139
pull
Entries 82
Mean −1997
Std Dev 0
200
100
0
−100
−200
−300
−400

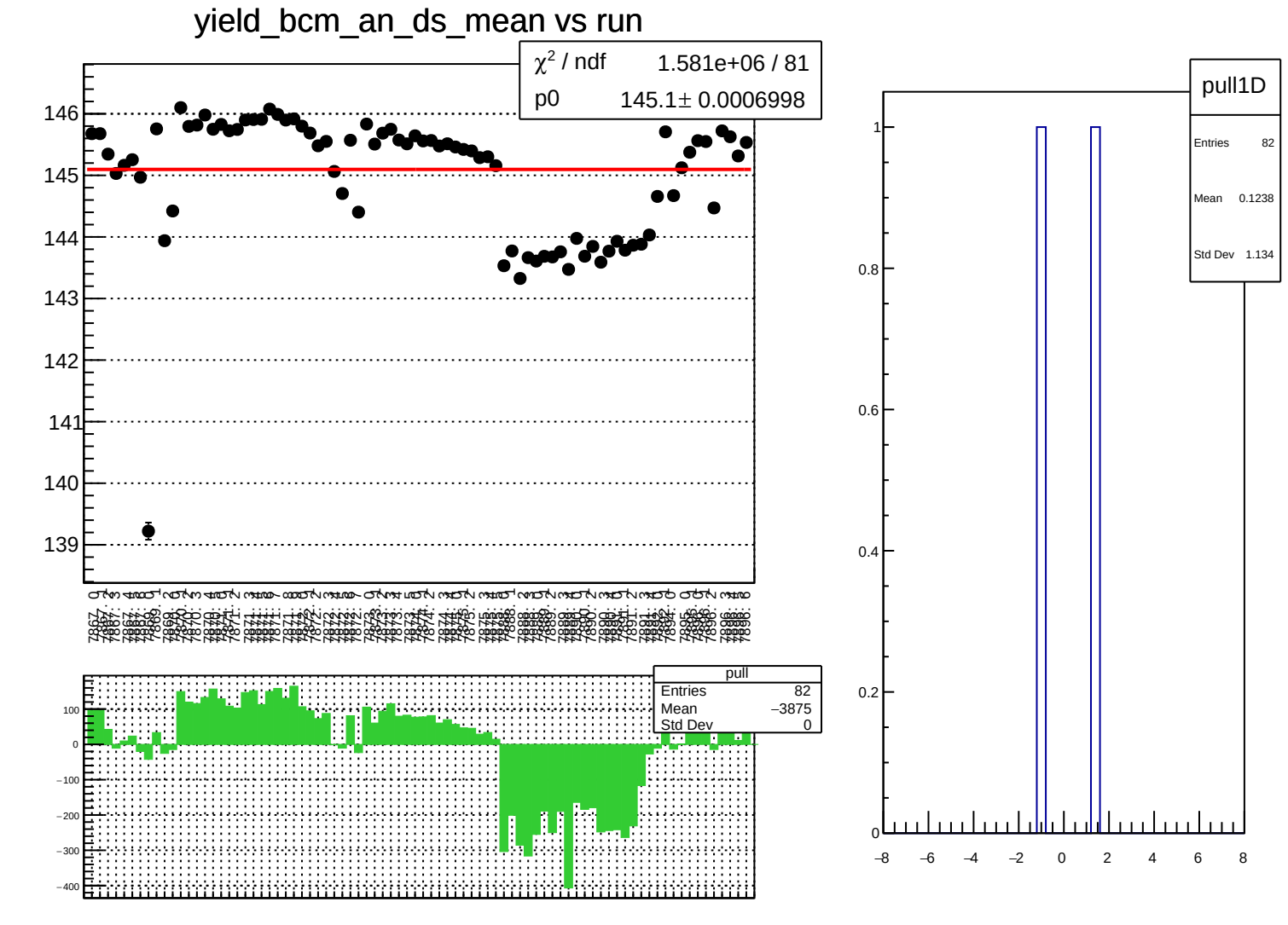

pull1D
Entries 82
Mean 0.3282
Std Dev 0.9123
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

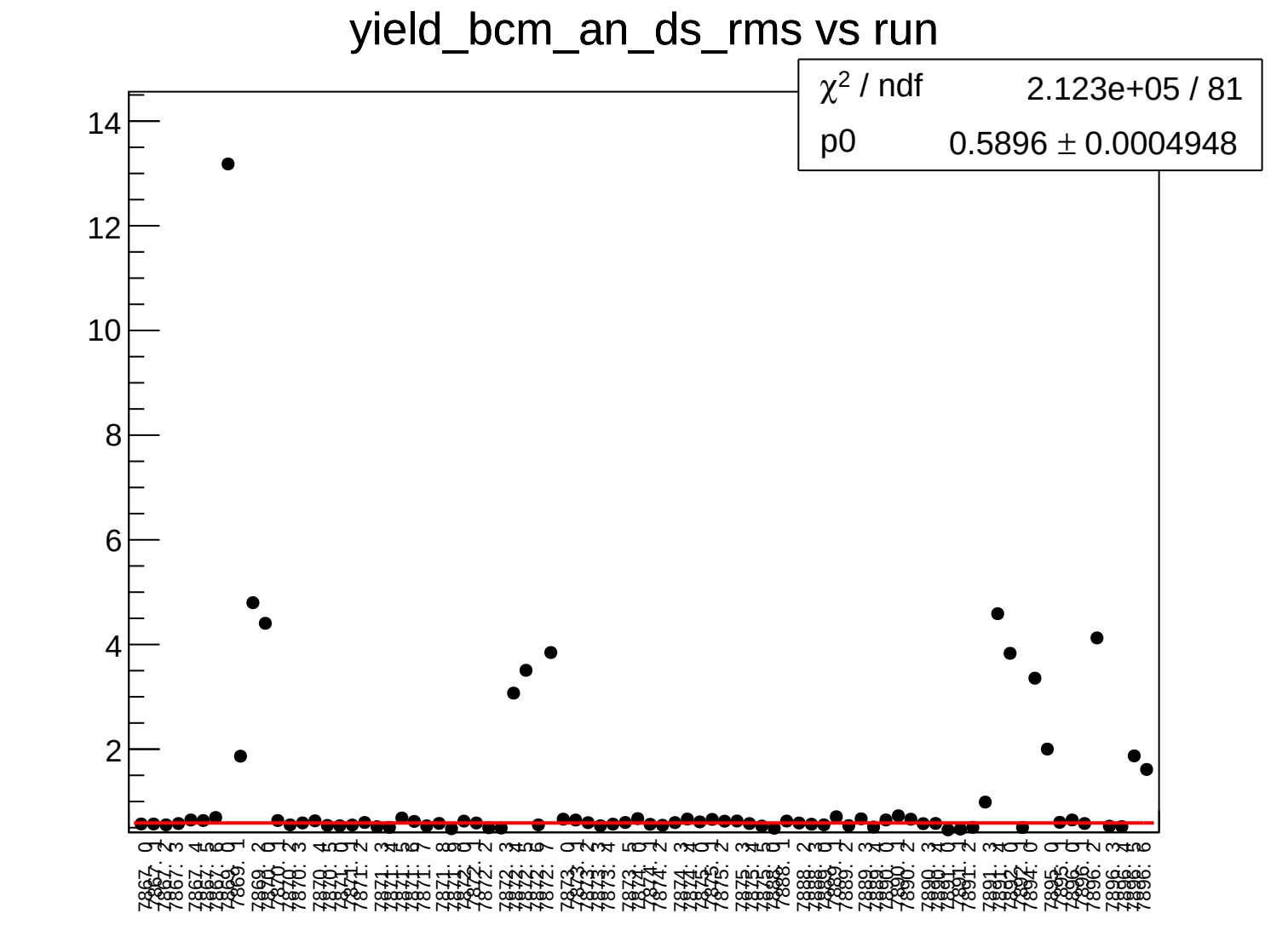

yield_bcm_target_rms vs run
χ² / ndf 2.119e+05 / 81
p0 0.5933 ± 0.0004978
14
12
10
8
6
4
2

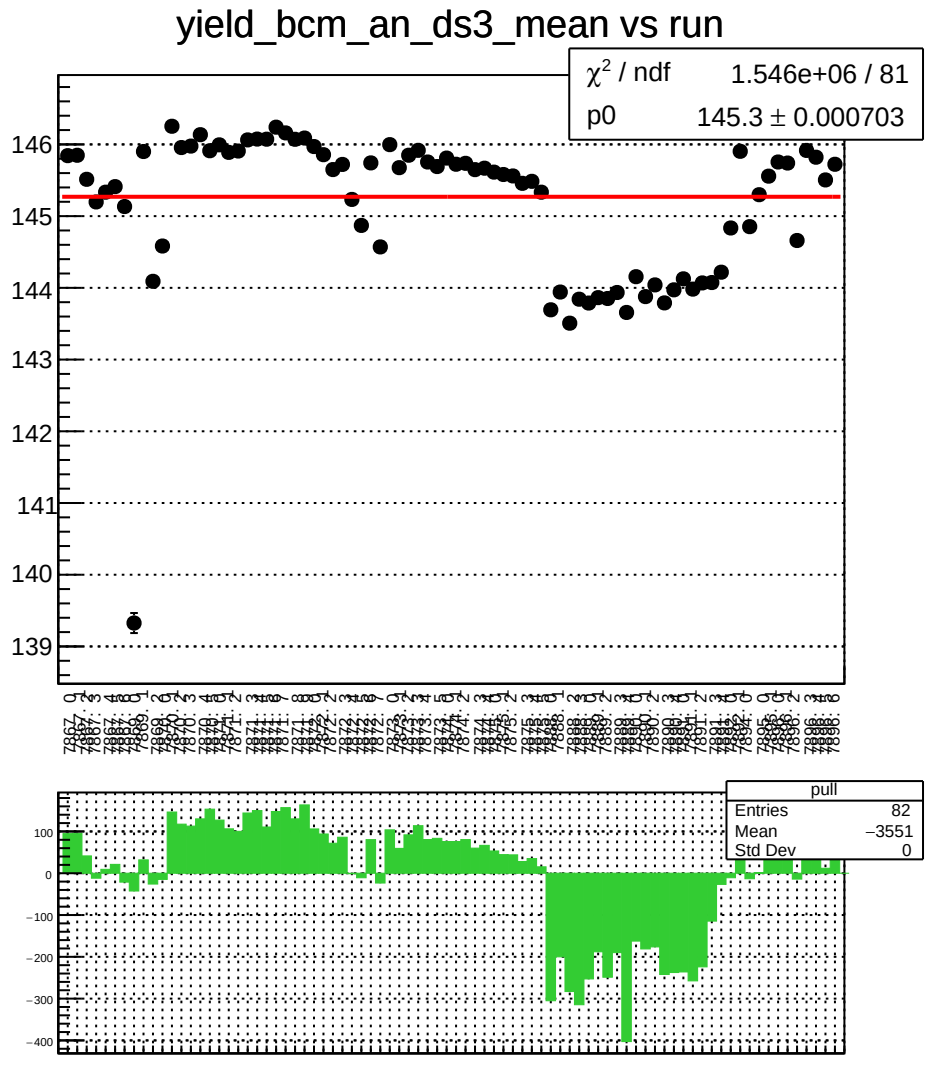

yield_bcm_an_diff_mean vs run
χ² / ndf 6.385e+06 / 81
p0 −2.541e+04 ± 6.392
pull
Entries 82
Mean −301.2
Std Dev 0

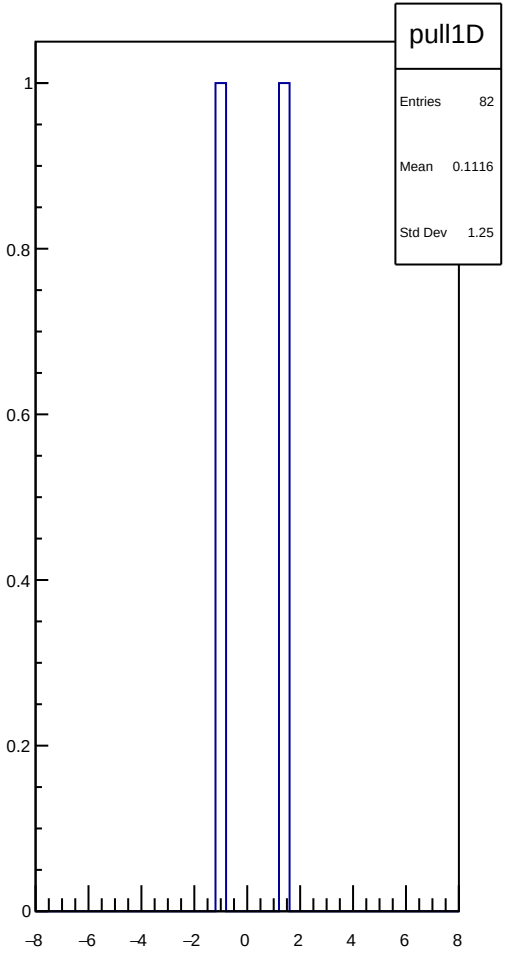

pull1D
Entries 82
Mean −0.06638
Std Dev 3.542

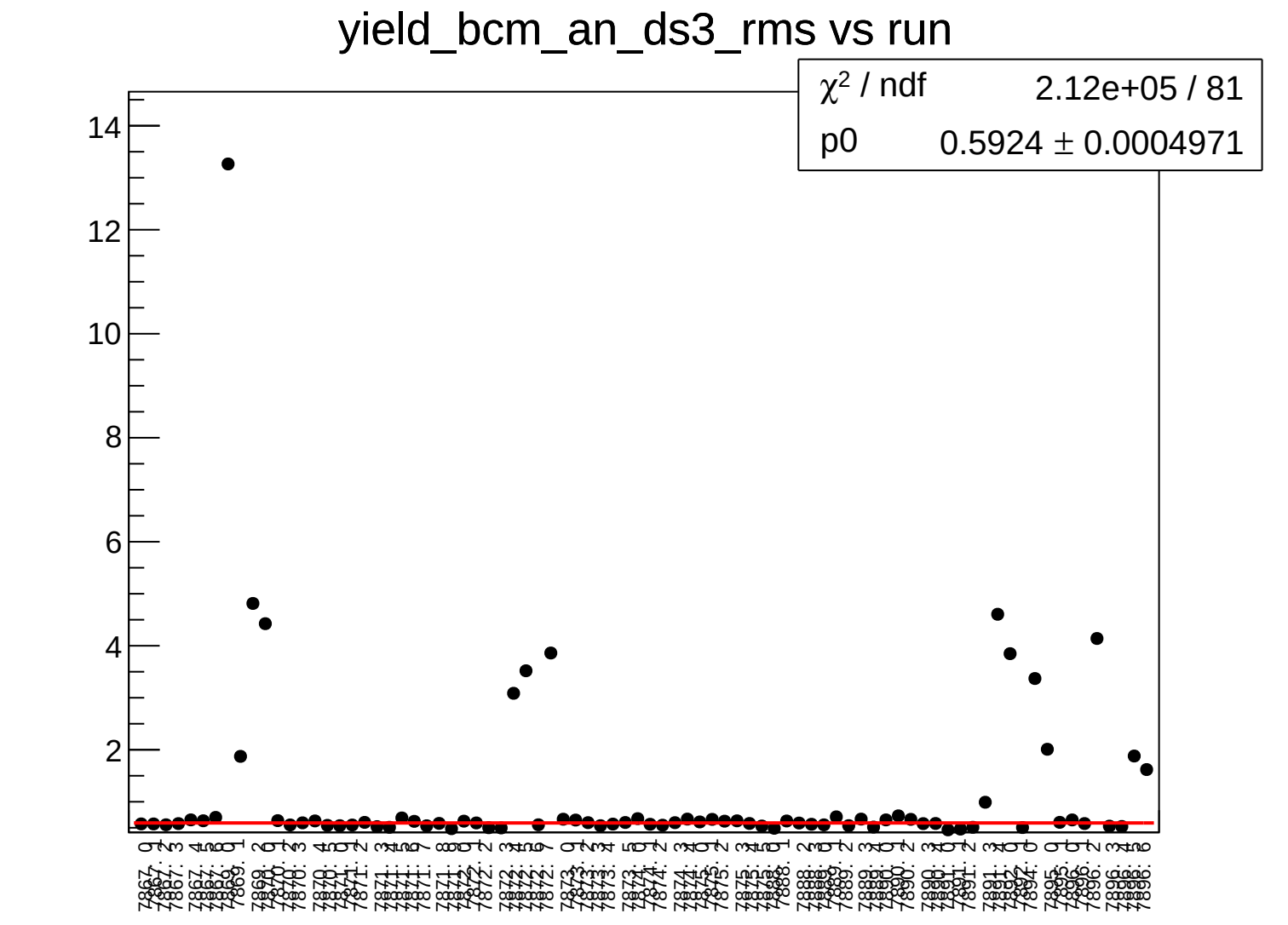

yield_bcm_an_diff_rms vs run
χ^2 / ndf 9.539e+04 / 81
p0 5603 ± 4.52
14000
12000
10000
8000
6000
4000

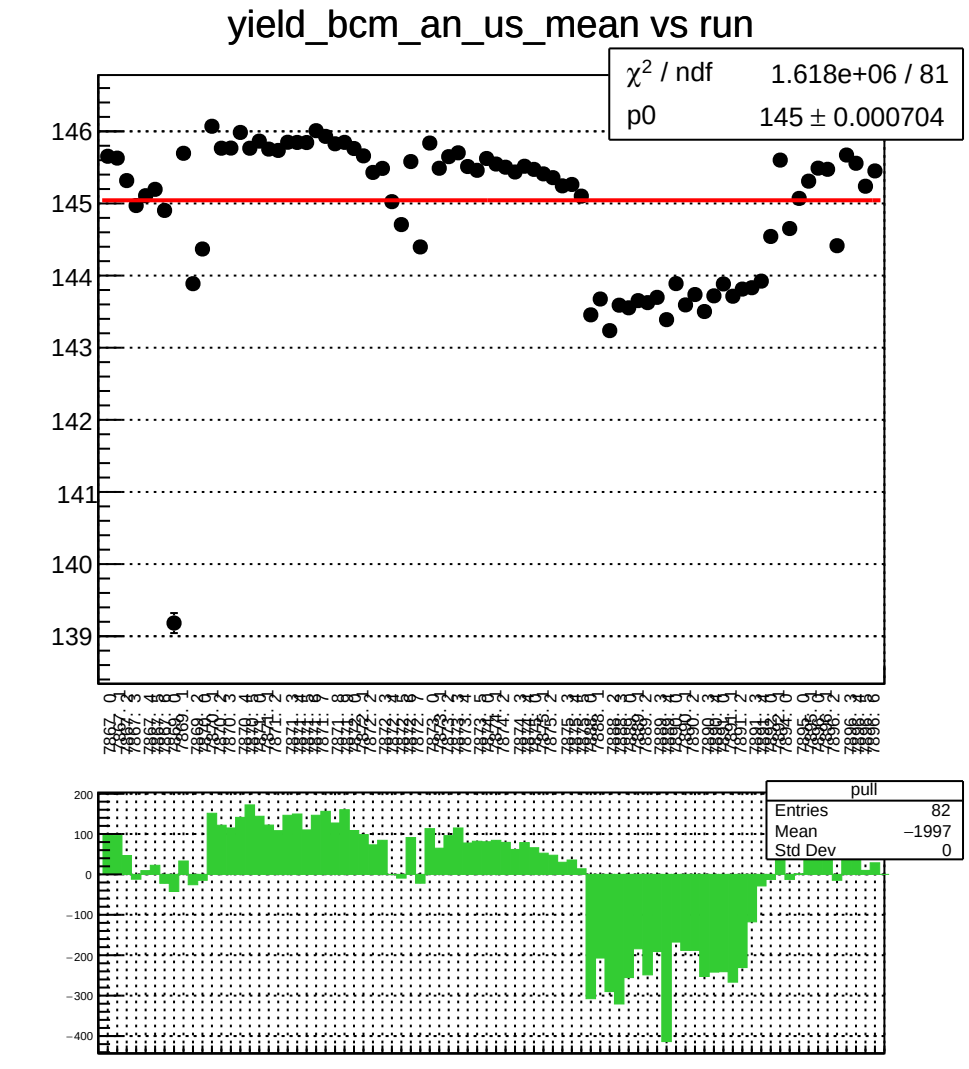

yield_bcm_an_ds_mean vs run
χ² / ndf 1.581e+06 / 81
p0 145.1± 0.0006998
146
145
144
143
142
141
140
139
pull
Entries 82
Mean −3875
Std Dev 0
100
0
−100
−200
−300
−400
pull1D
Entries 82
Mean 0.1238
Std Dev 1.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

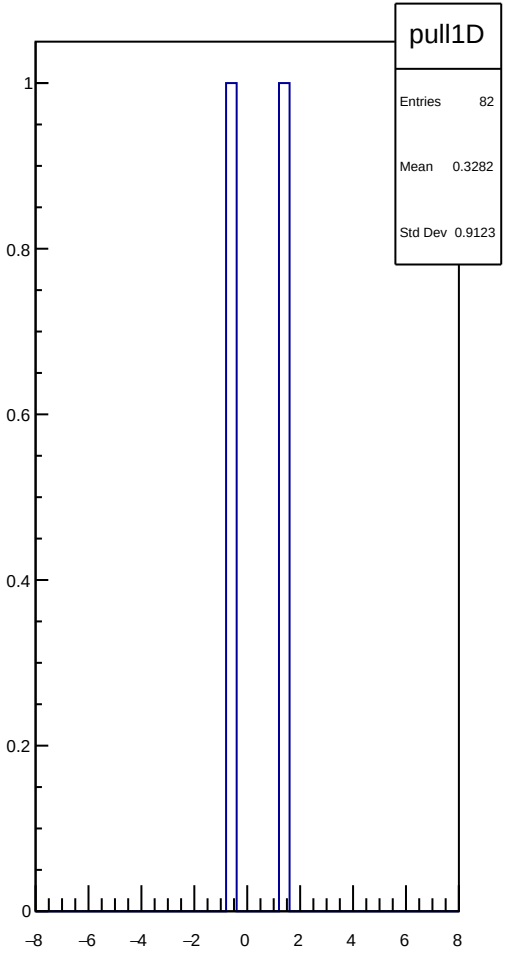

yield_bcm_an_ds_rms vs run
χ² / ndf 2.123e+05 / 81
p0 0.5896 ± 0.0004948
14
12
10
8
6
4
2

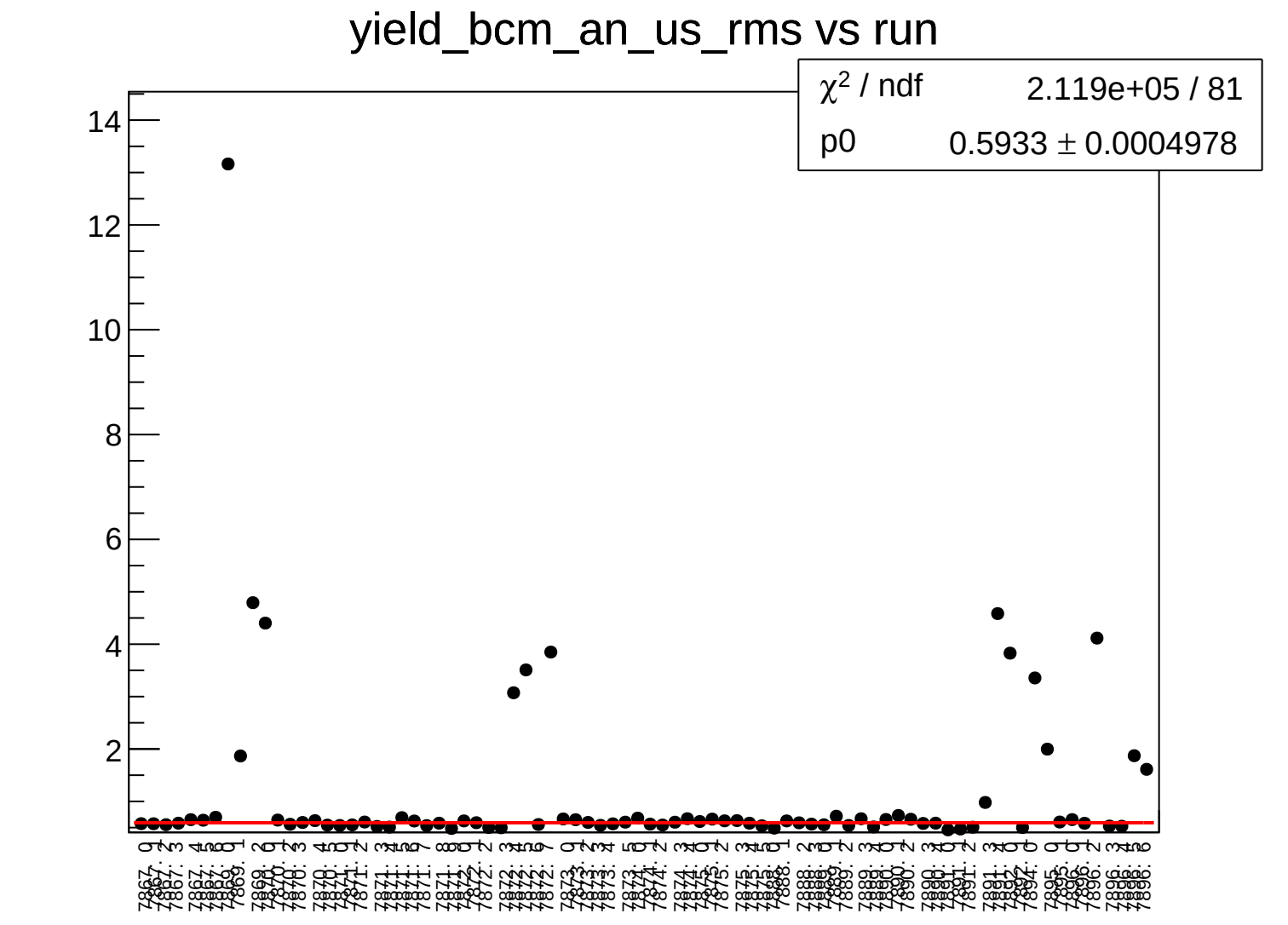

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.546e+06 / 81
p0 145.3 ± 0.000703
pull
Entries 82
Mean −3551
Std Dev 0

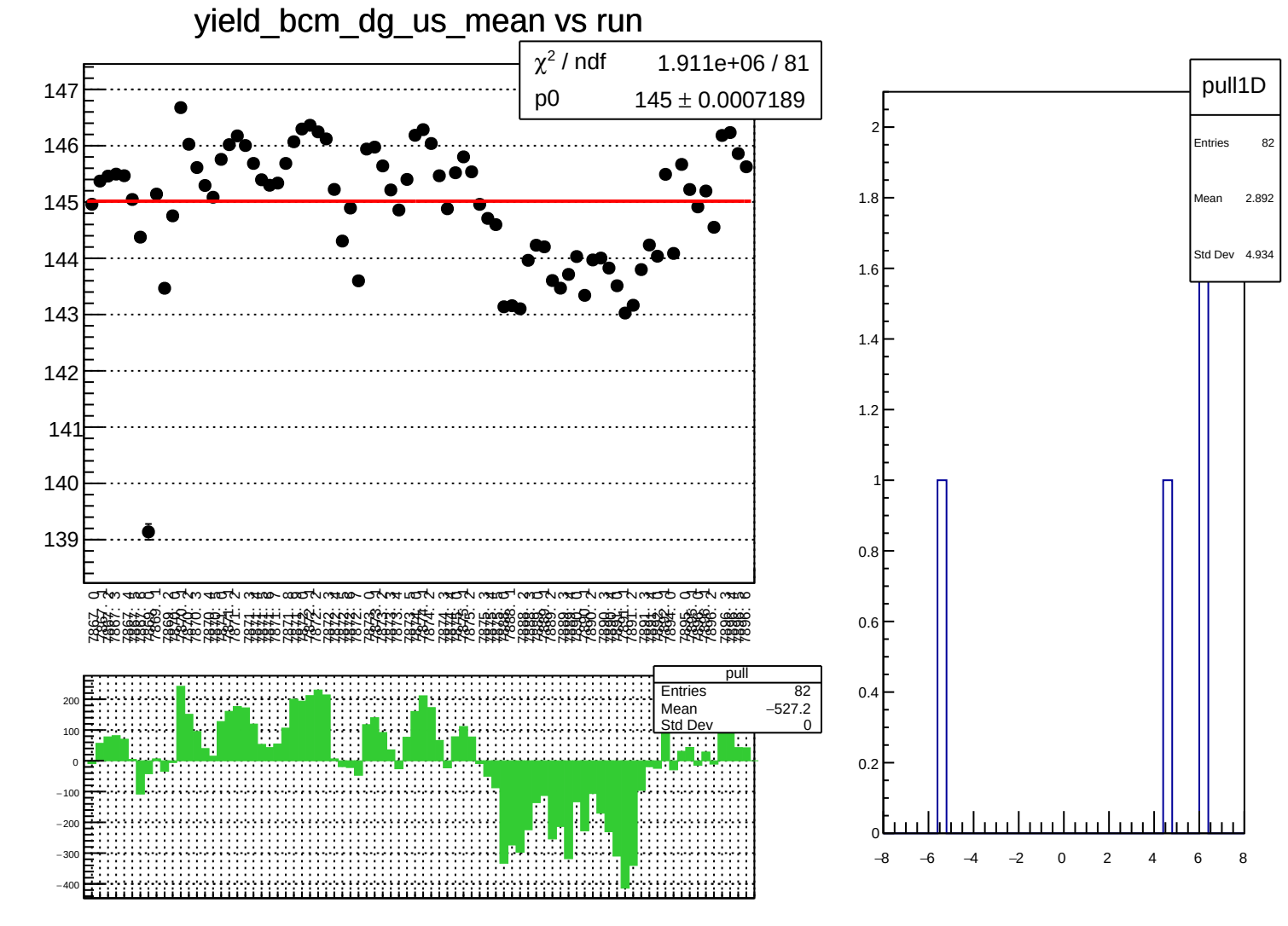

pull1D
Entries 82
Mean 0.1116
Std Dev 1.25

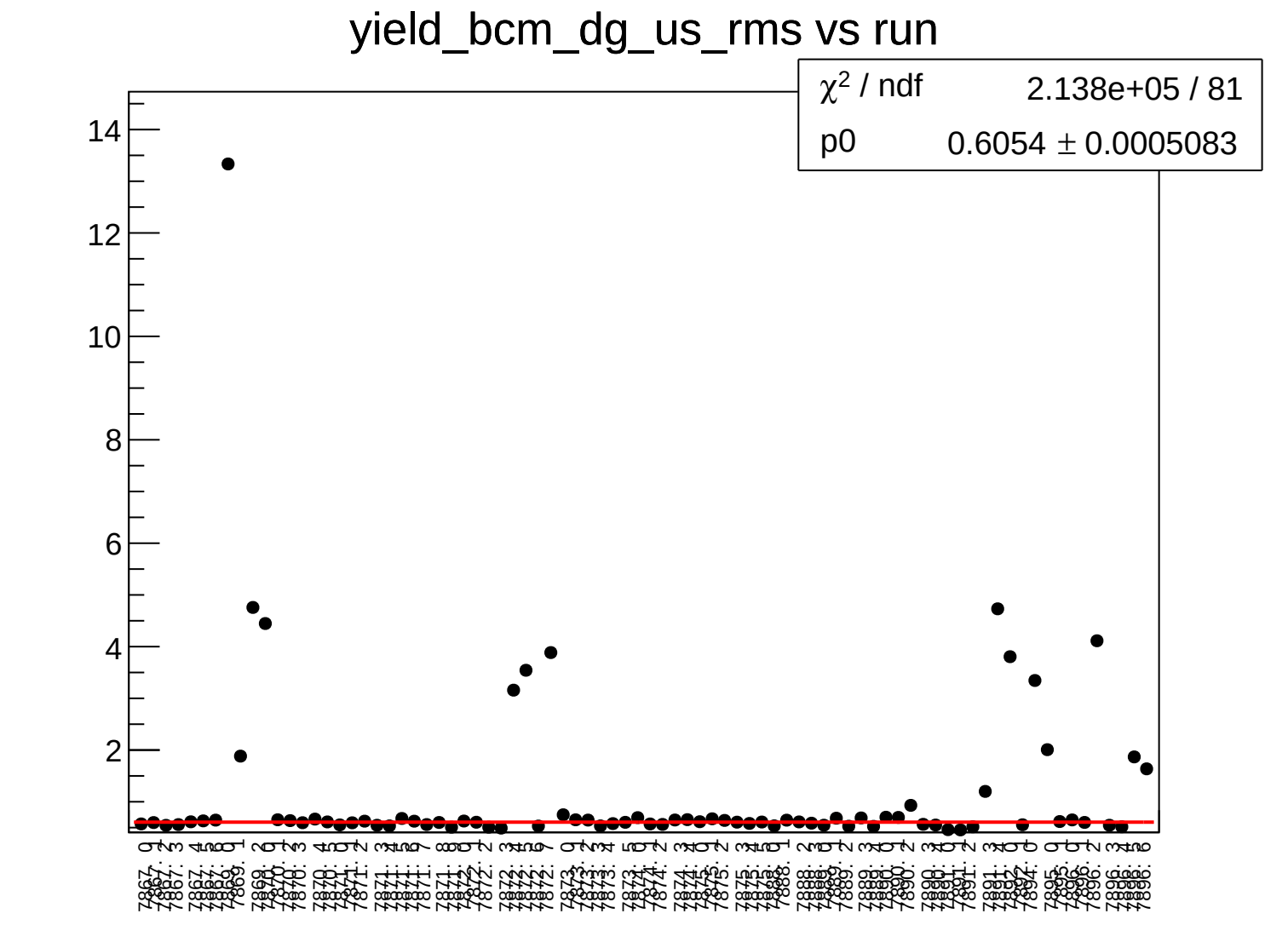

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.12e+05 / 81
p0 0.5924 ± 0.0004971
14
12
10
8
6
4
2

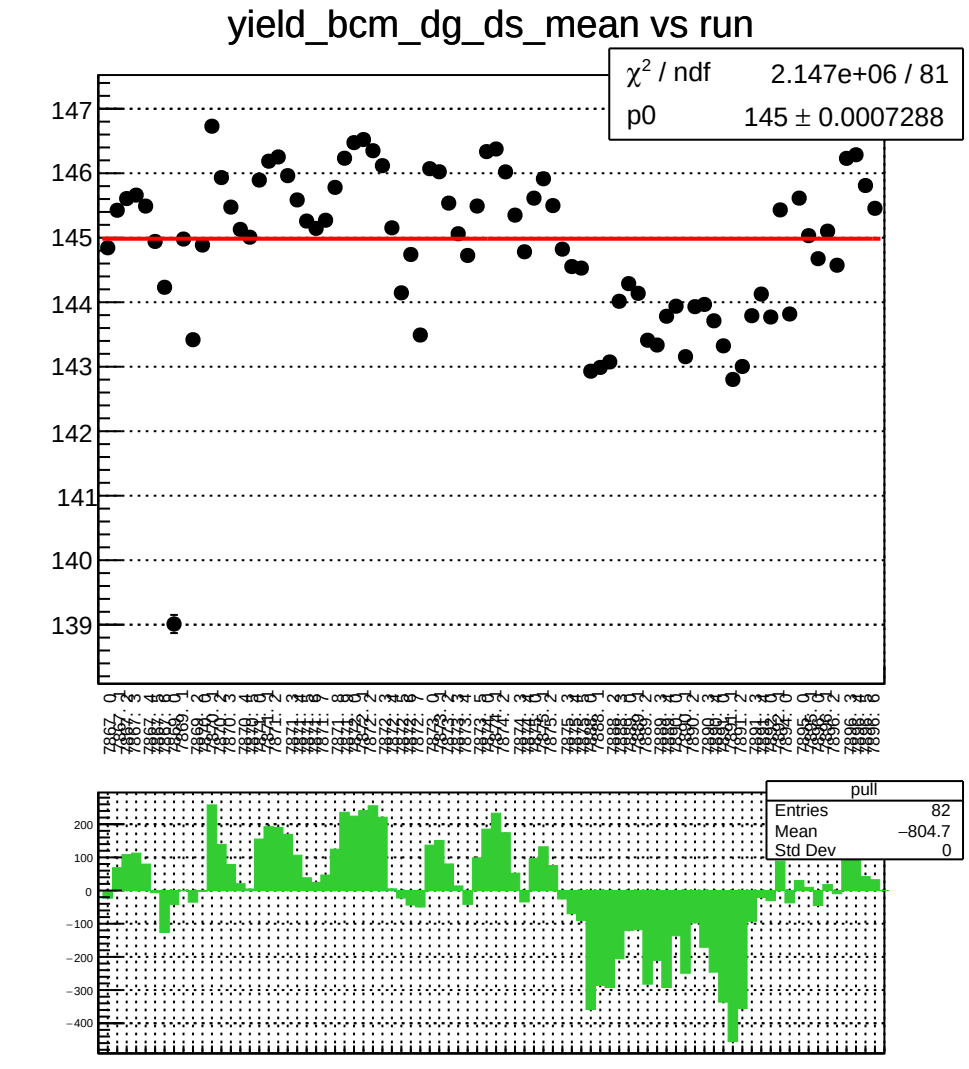

yield_bcm_an_us_mean vs run
χ² / ndf 1.618e+06 / 81
p0 145 ± 0.000704
146
145
144
143
142
141
140
139
pull
Entries 82
Mean −1997
Std Dev 0
200
100
0
−100
−200
−300
−400

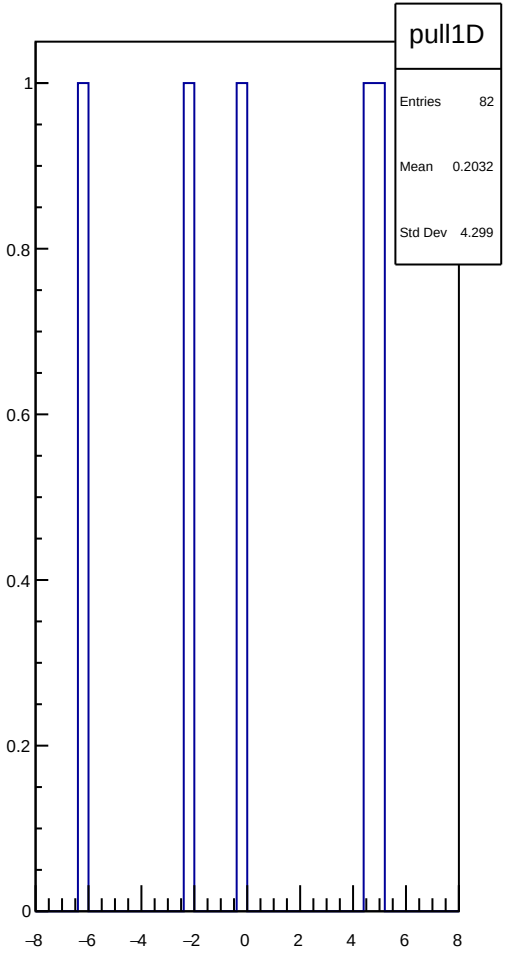

pull1D
Entries 82
Mean 0.3282
Std Dev 0.9123
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

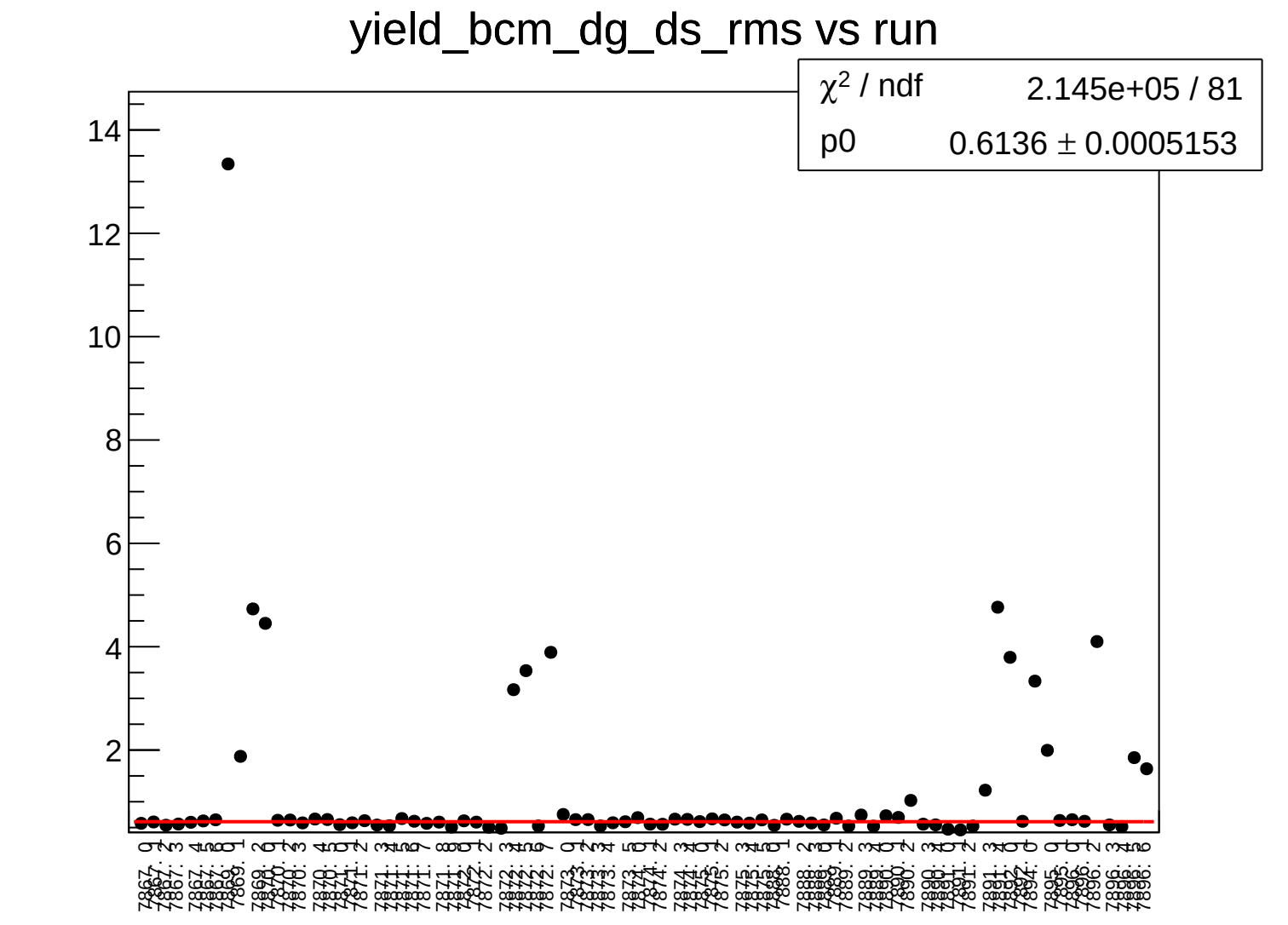

yield_bcm_an_us_rms vs run
χ² / ndf 2.119e+05 / 81
p0 0.5933 ± 0.0004978
14
12
10
8
6
4
2

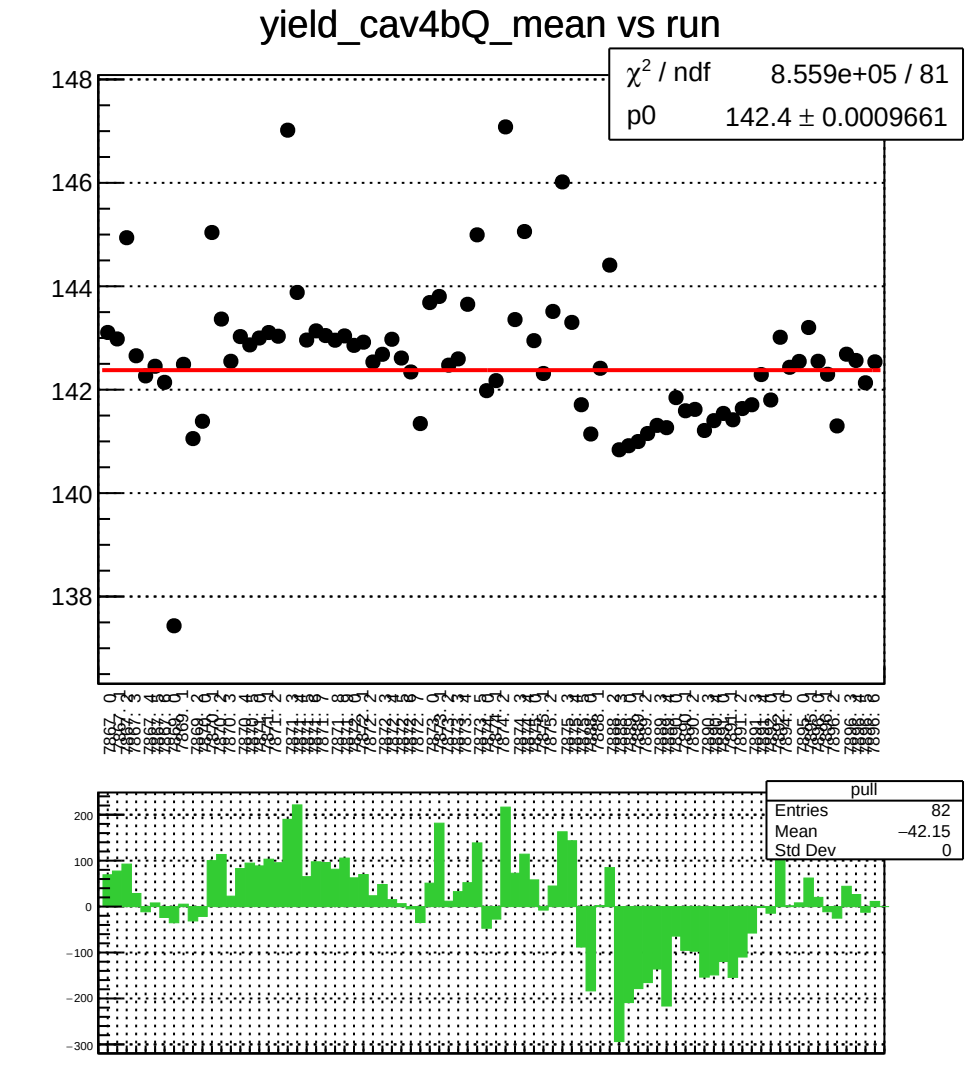

yield_bcm_dg_us_mean vs run
χ² / ndf 1.911e+06 / 81
p0 145 ± 0.0007189
147
146
145
144
143
142
141
140
139
pull
Entries 82
Mean −527.2
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 82
Mean 2.892
Std Dev 4.934
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

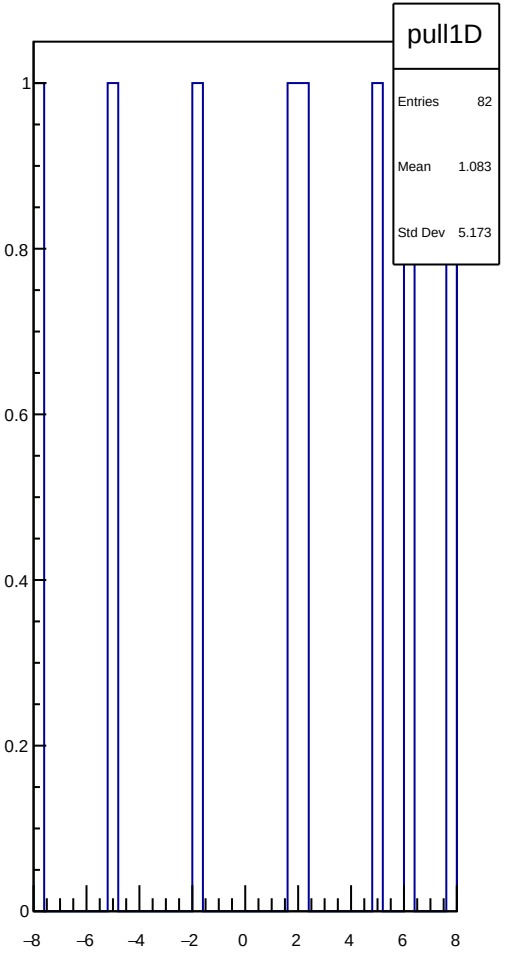

yield_bcm_dg_us_rms vs run
χ² / ndf 2.138e+05 / 81
p0 0.6054 ± 0.0005083
14
12
10
8
6
4
2

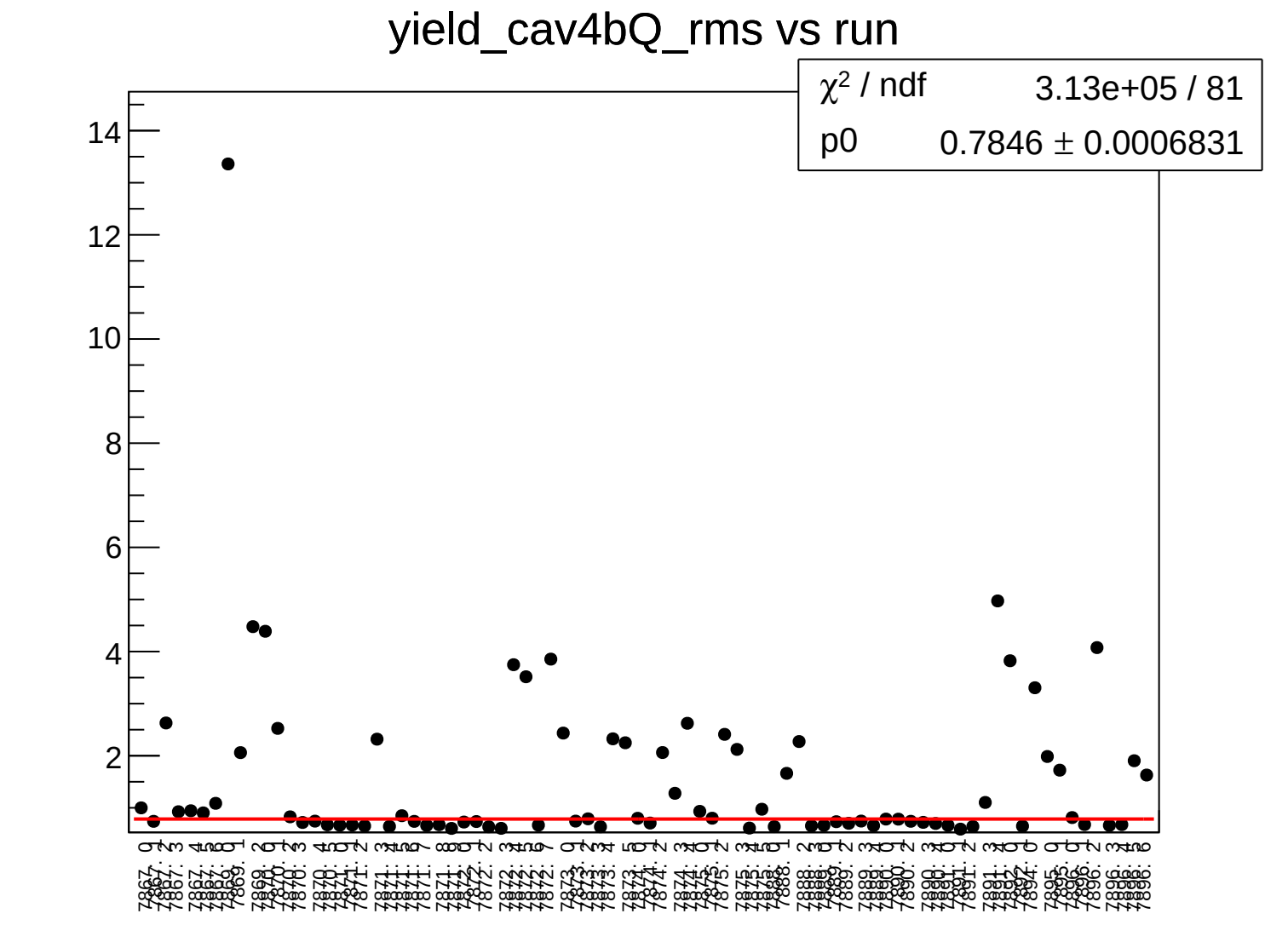

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.147e+06 / 81
p0 145 ± 0.0007288
147
146
145
144
143
142
141
140
139
pull
Entries 82
Mean –804.7
Std Dev 0
200
100
0
−100
−200
−300
−400

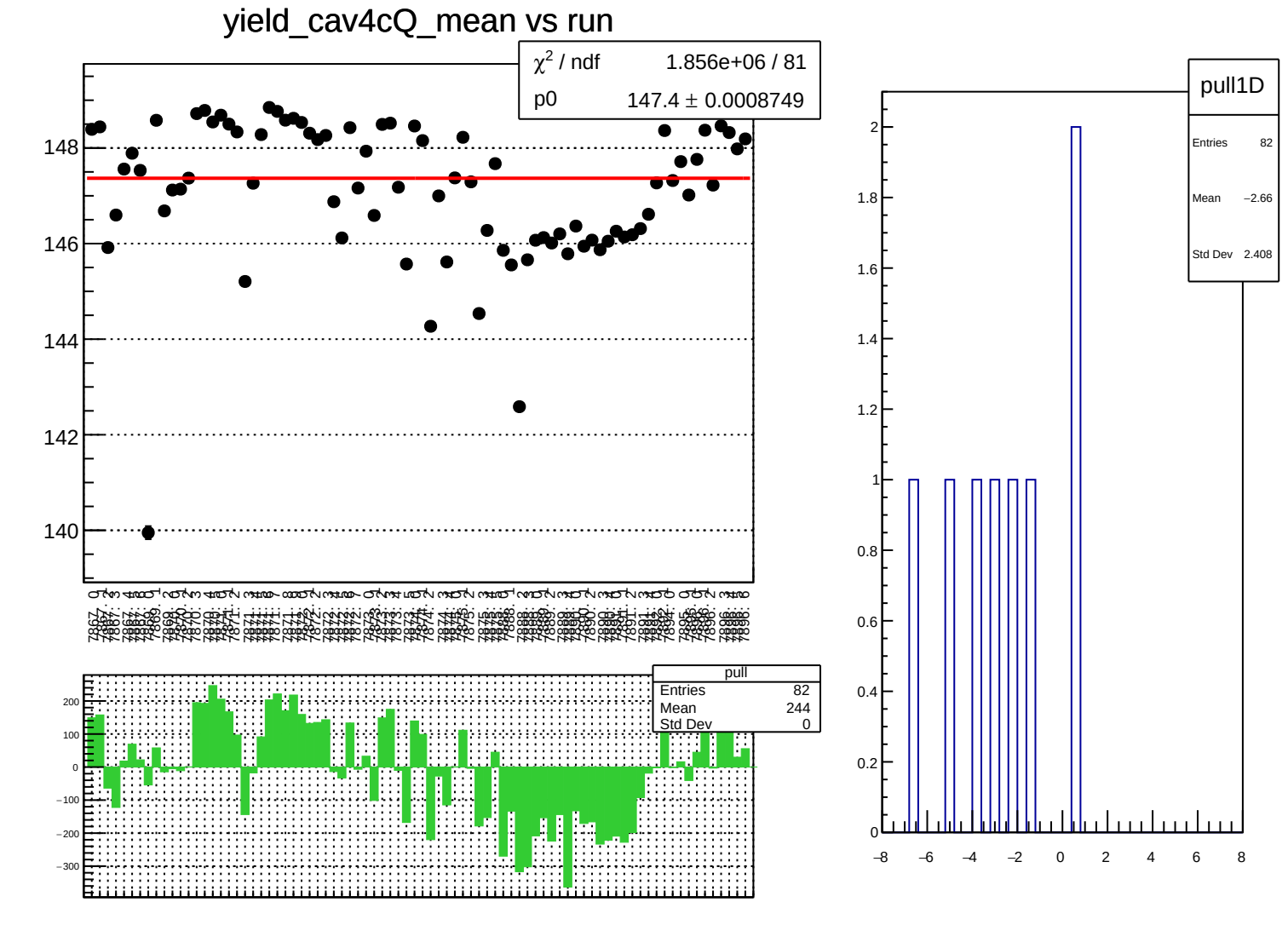

pull1D
Entries 82
Mean 0.2032
Std Dev 4.299
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

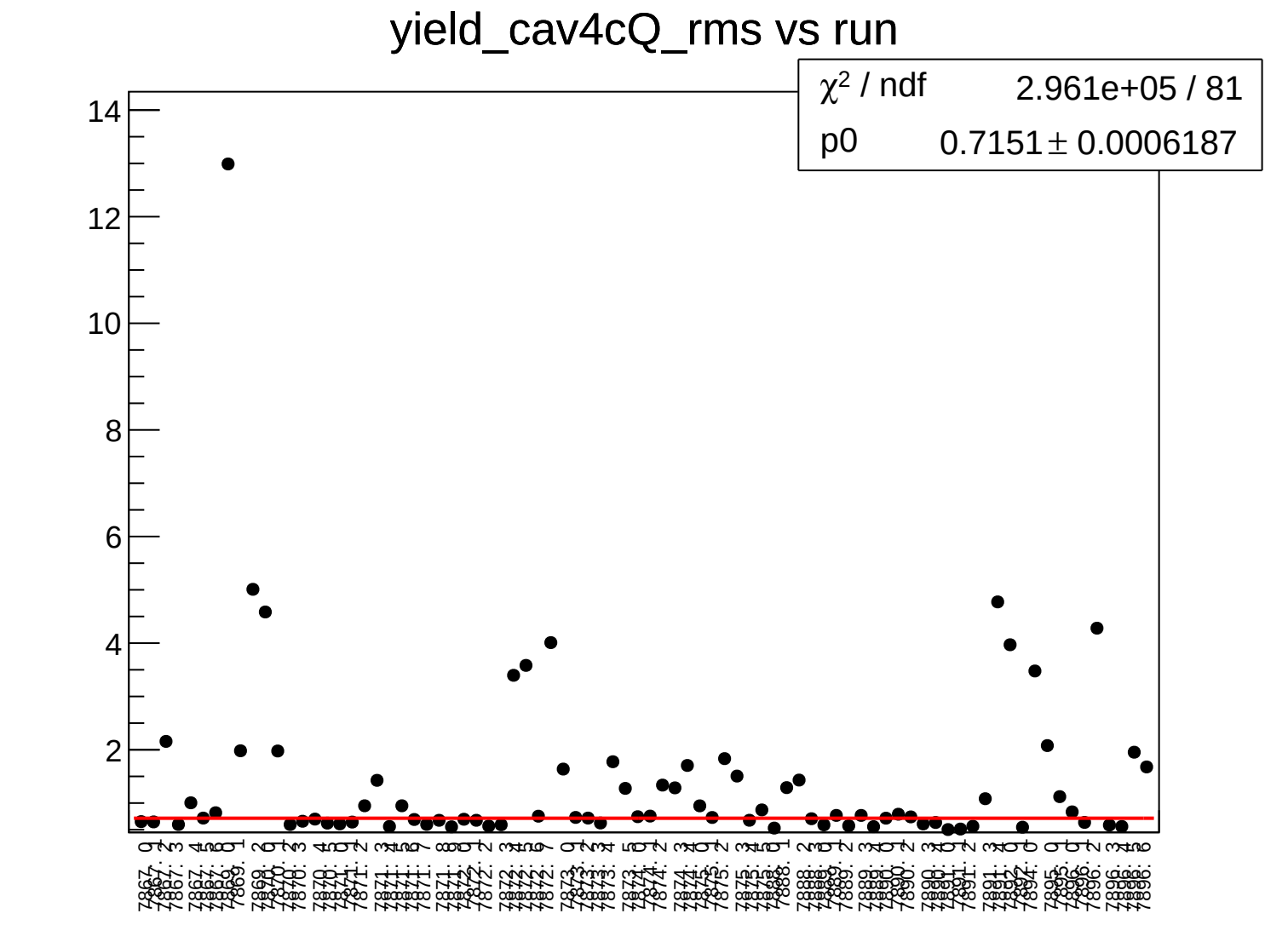

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.145e+05 / 81
p0 0.6136 ± 0.0005153
14
12
10
8
6
4
2

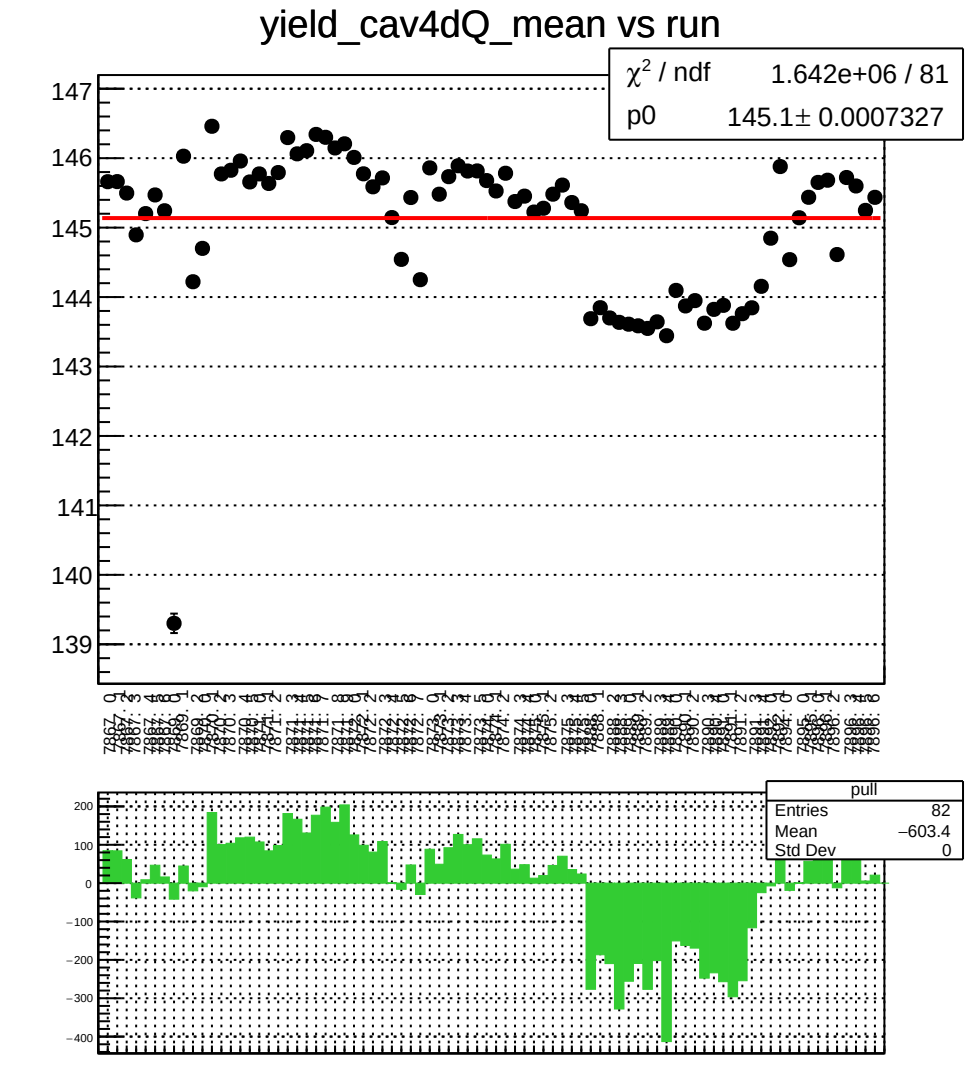

yield_cav4bQ_mean vs run
χ² / ndf 8.559e+05 / 81
p0 142.4 ± 0.0009661
148
146
144
142
140
138
pull
Entries 82
Mean −42.15
Std Dev 0
200
100
0
−100
−200
−300

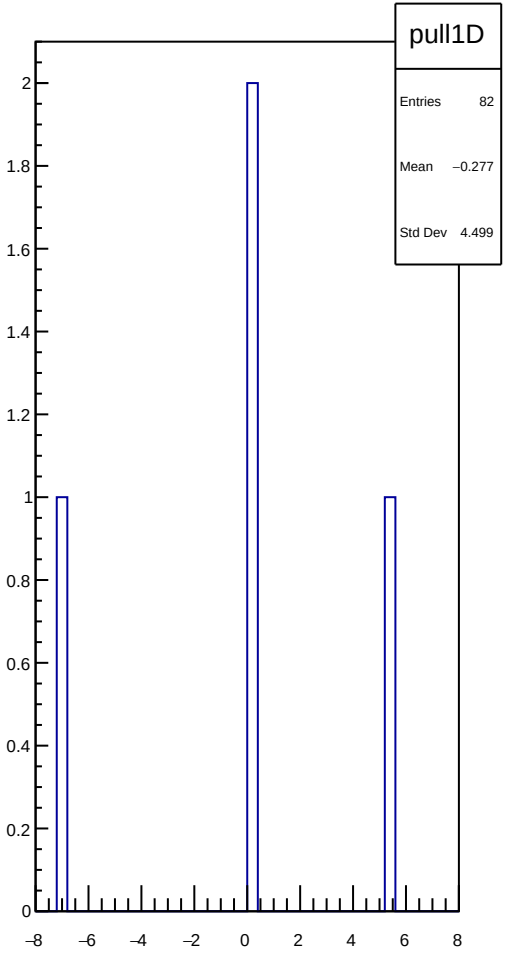

pull1D
Entries 82
Mean 1.083
Std Dev 5.173
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

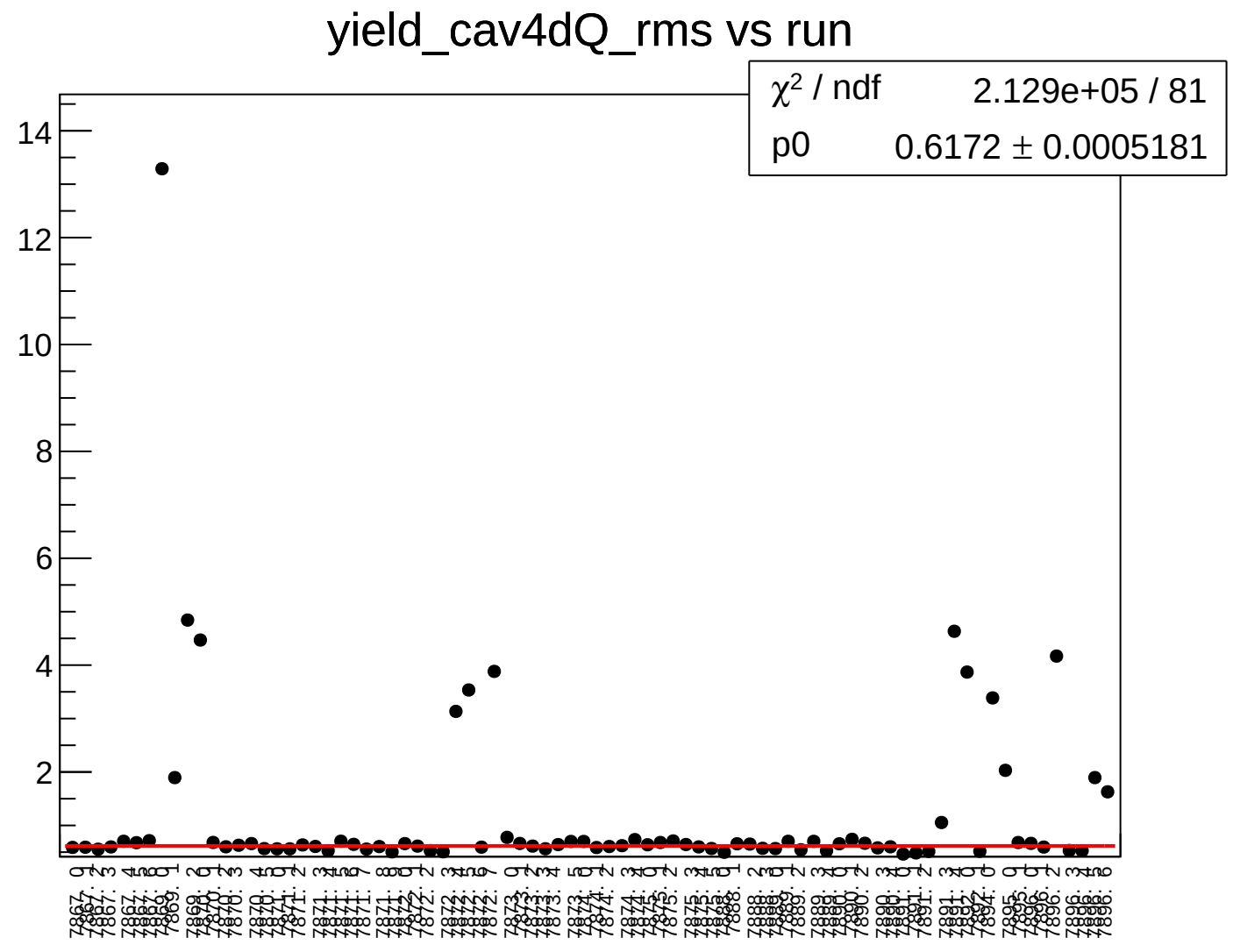

yield_cav4bQ_rms vs run
χ² / ndf 3.13e+05 / 81
p0 0.7846 ± 0.0006831
14
12
10
8
6
4
2

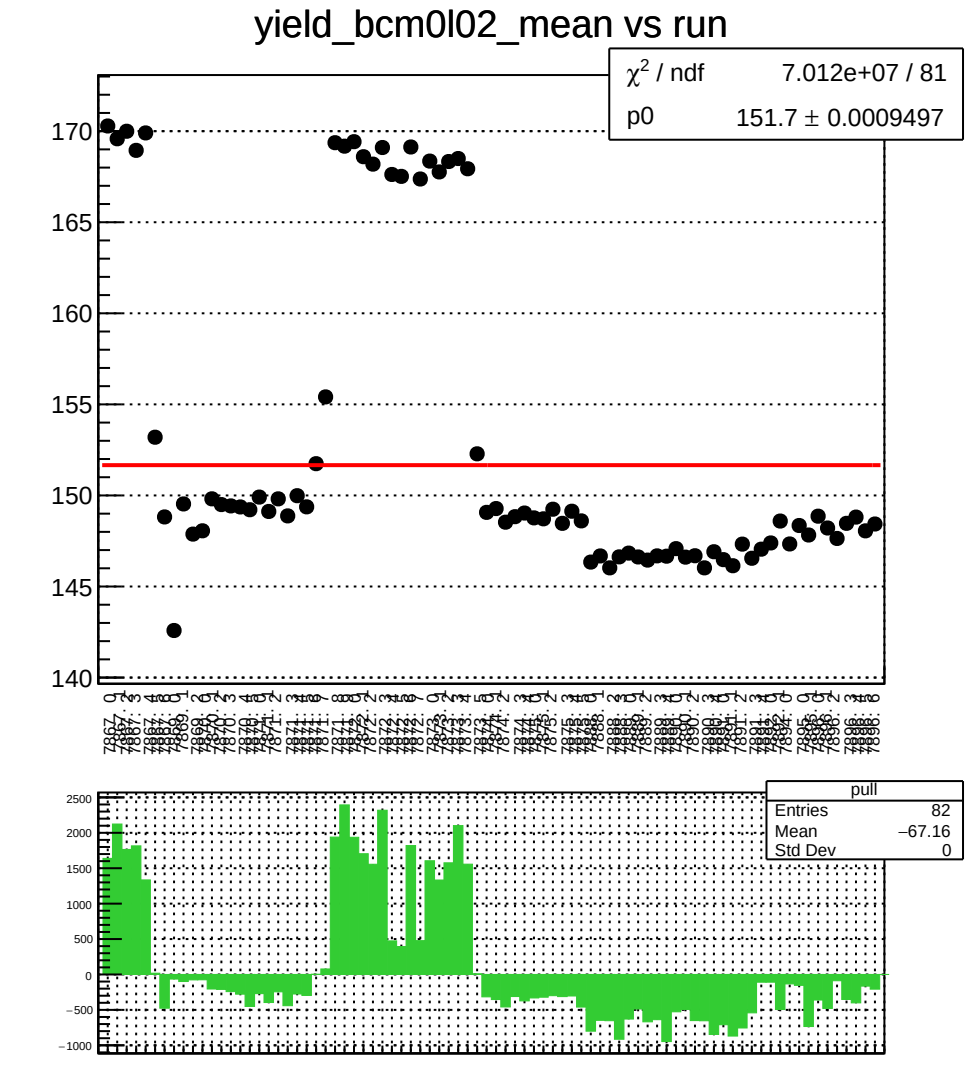

yield_cav4cQ_mean vs run
χ² / ndf 1.856e+06 / 81
p0 147.4 ± 0.0008749
148
146
144
142
140
pull
Entries 82
Mean 244
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 82
Mean −2.66
Std Dev 2.408
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

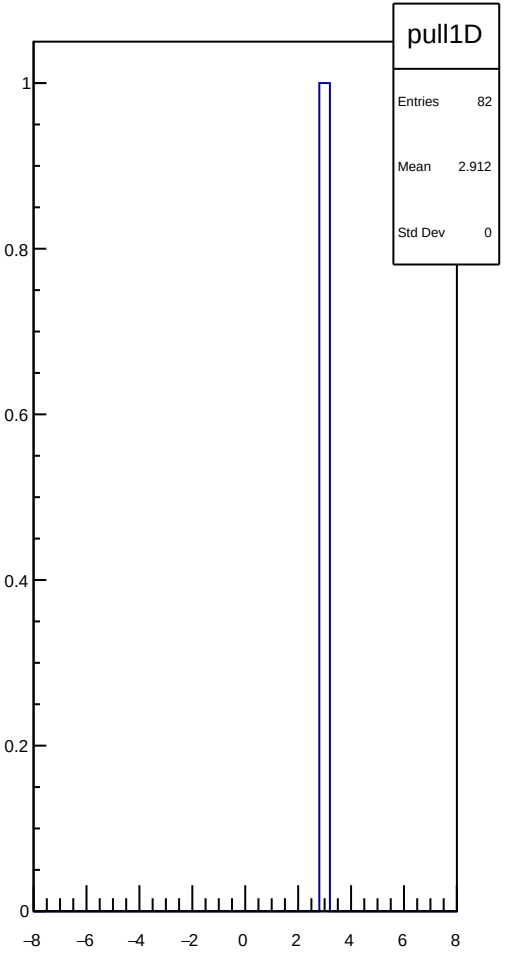

yield_cav4cQ_rms vs run
χ² / ndf 2.961e+05 / 81
p0 0.7151 ± 0.0006187
14
12
10
8
6
4
2

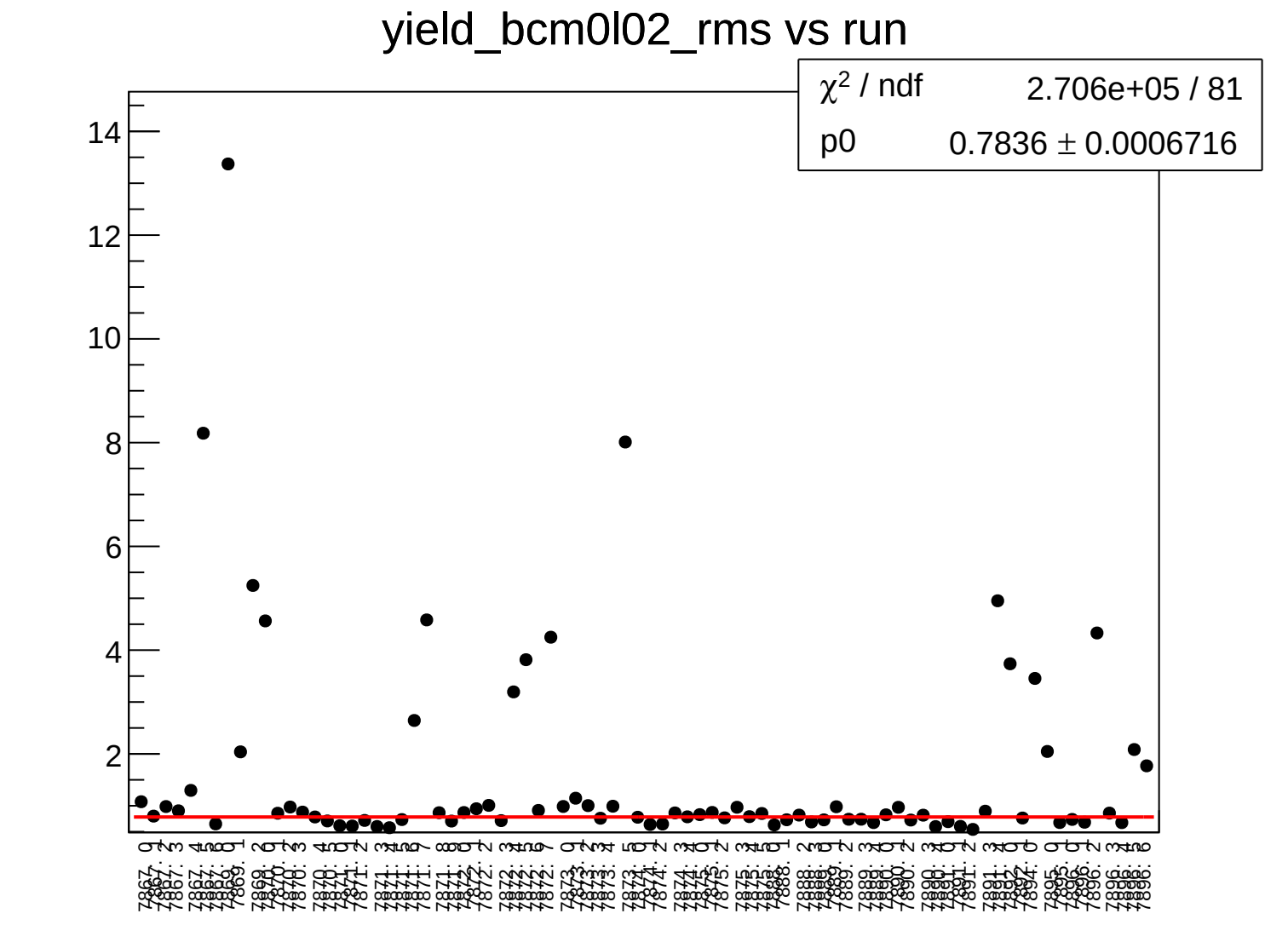

yield_cav4dQ_mean vs run
χ² / ndf 1.642e+06 / 81
p0 145.1± 0.0007327
147
146
145
144
143
142
141
140
139
pull
Entries 82
Mean −603.4
Std Dev 0
200
100
0
−100
−200
−300
−400

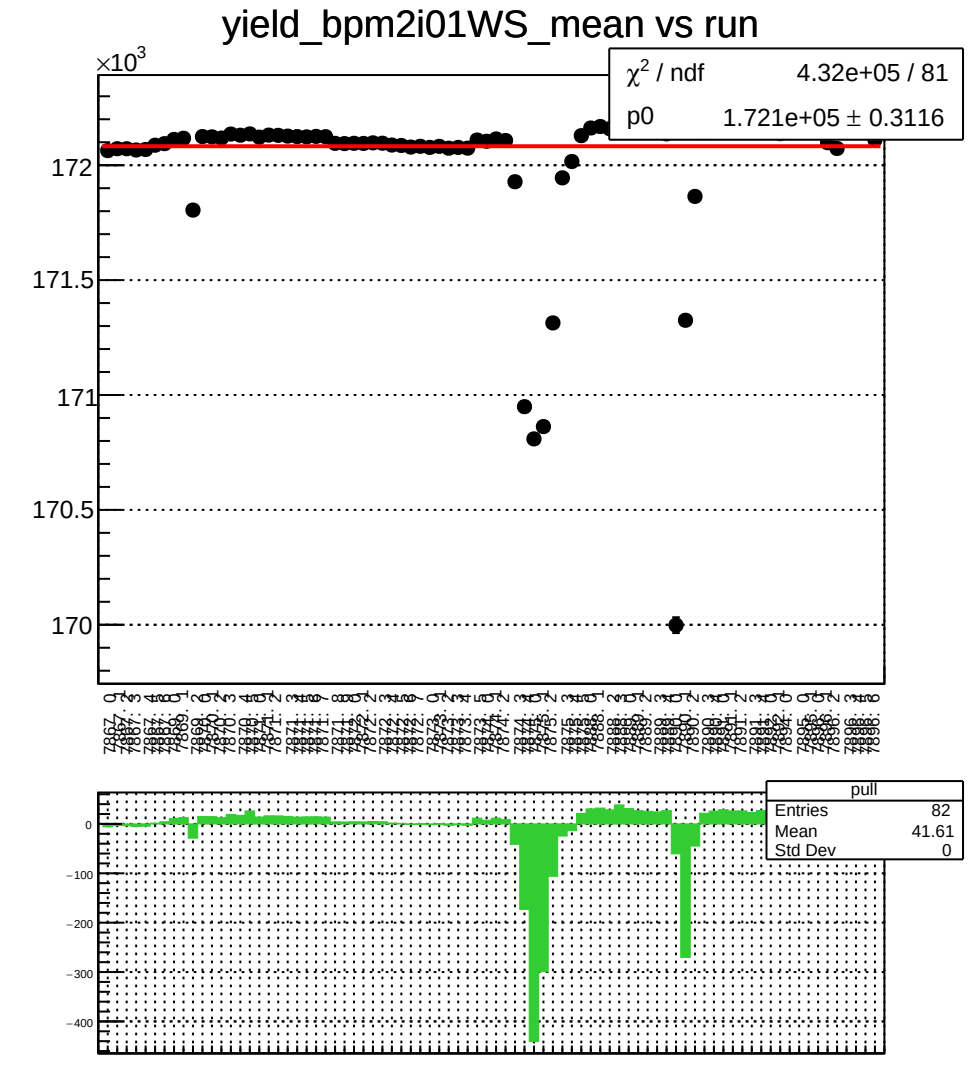

pull1D
Entries 82
Mean −0.277
Std Dev 4.499
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

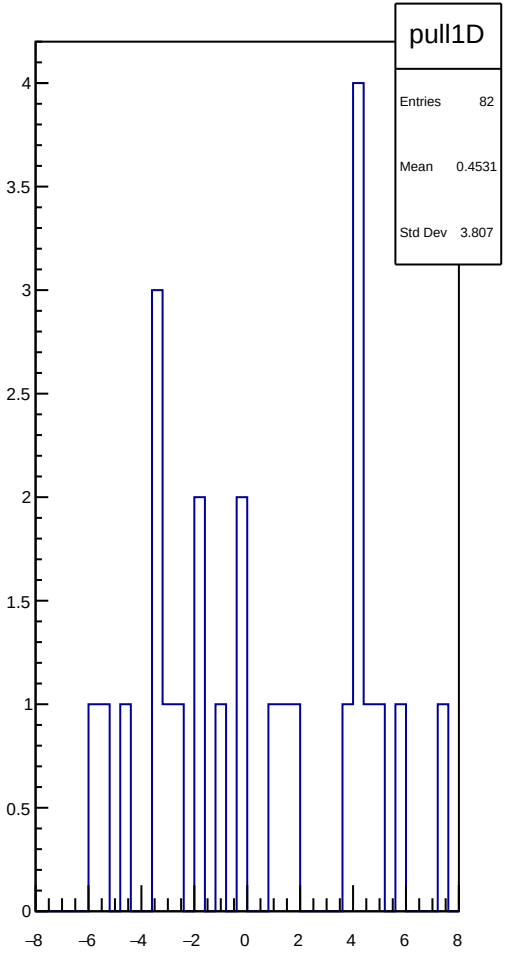

yield_cav4dQ_rms vs run
χ² / ndf 2.129e+05 / 81
p0 0.6172 ± 0.0005181
14
12
10
8
6
4
2

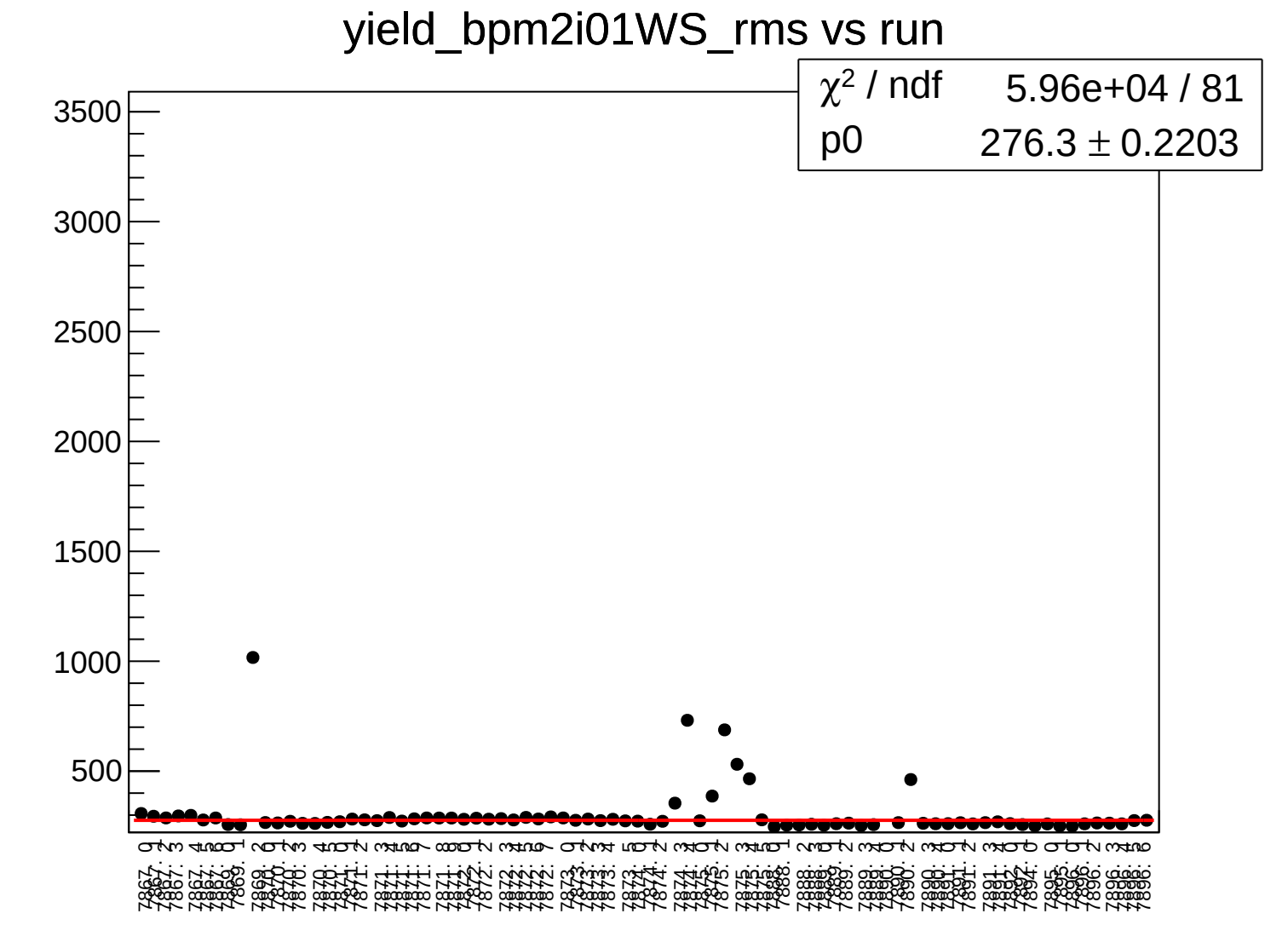

yield_bcm0l02_mean vs run
χ² / ndf 7.012e+07 / 81
p0 151.7 ± 0.0009497
170
165
160
155
150
145
140
pull
Entries 82
Mean −67.16
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

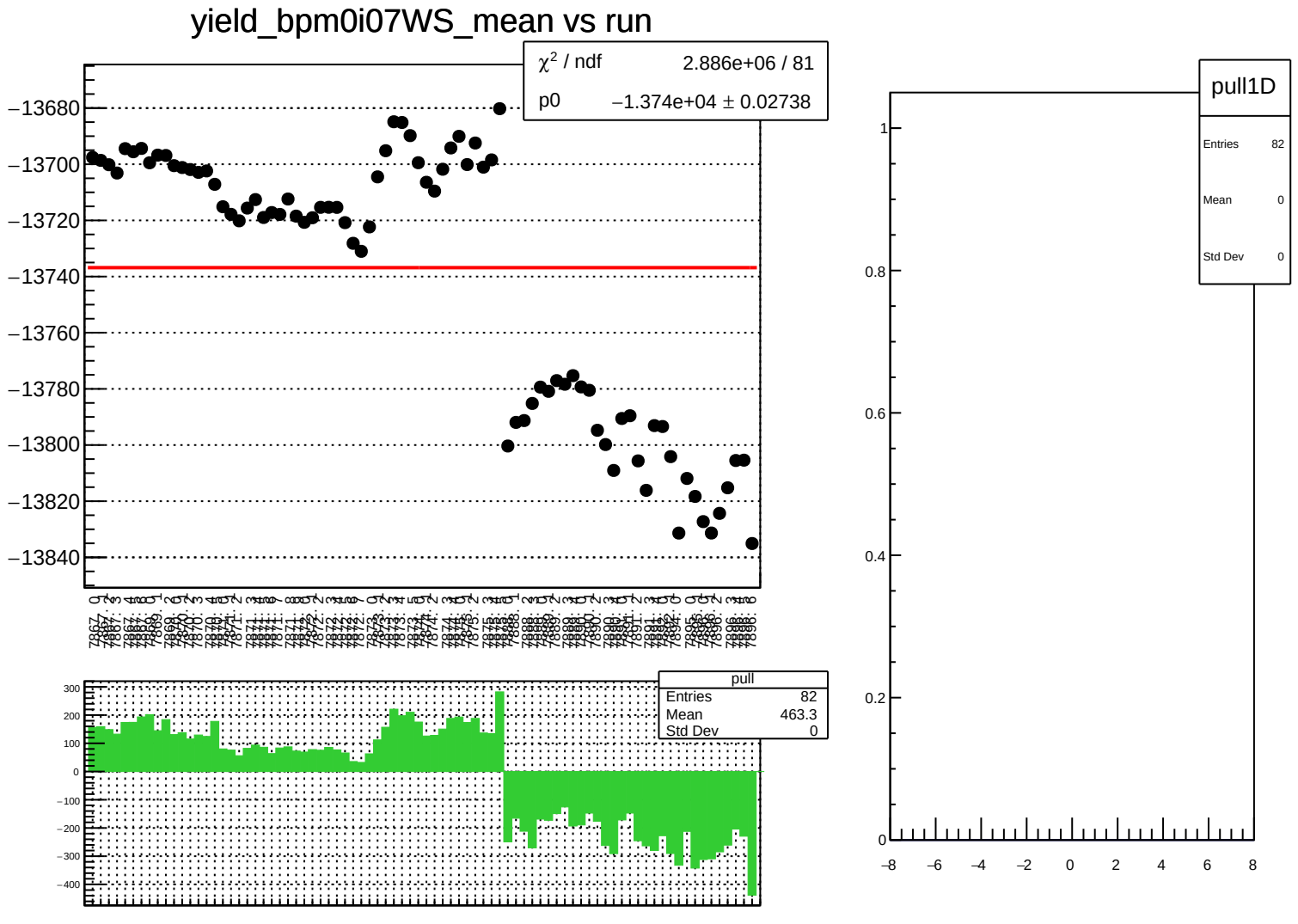

pull1D
Entries 82
Mean 2.912
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

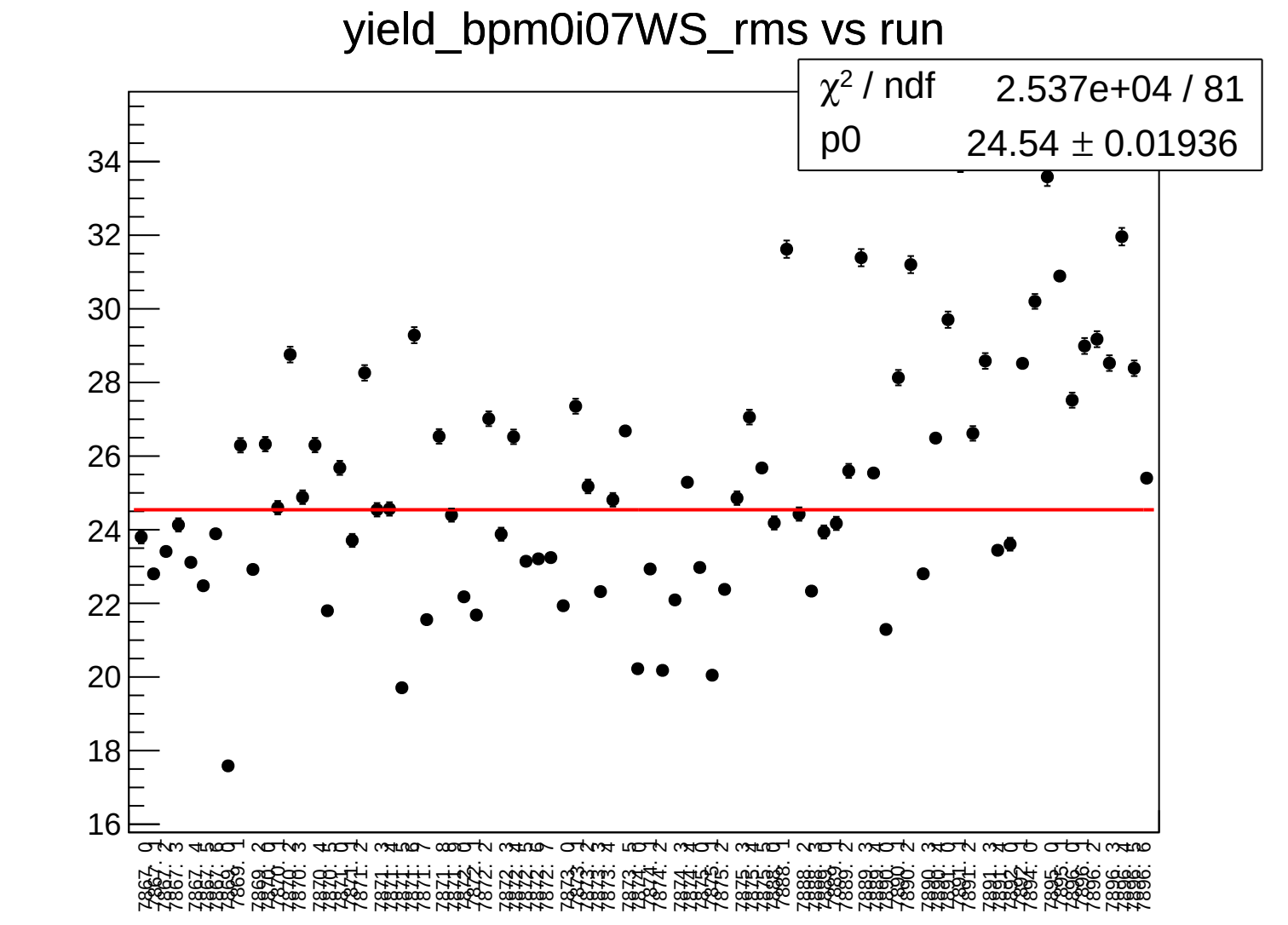

yield_bcm0l02_rms vs run
χ² / ndf 2.706e+05 / 81
p0 0.7836 ± 0.0006716
14
12
10
8
6
4
2

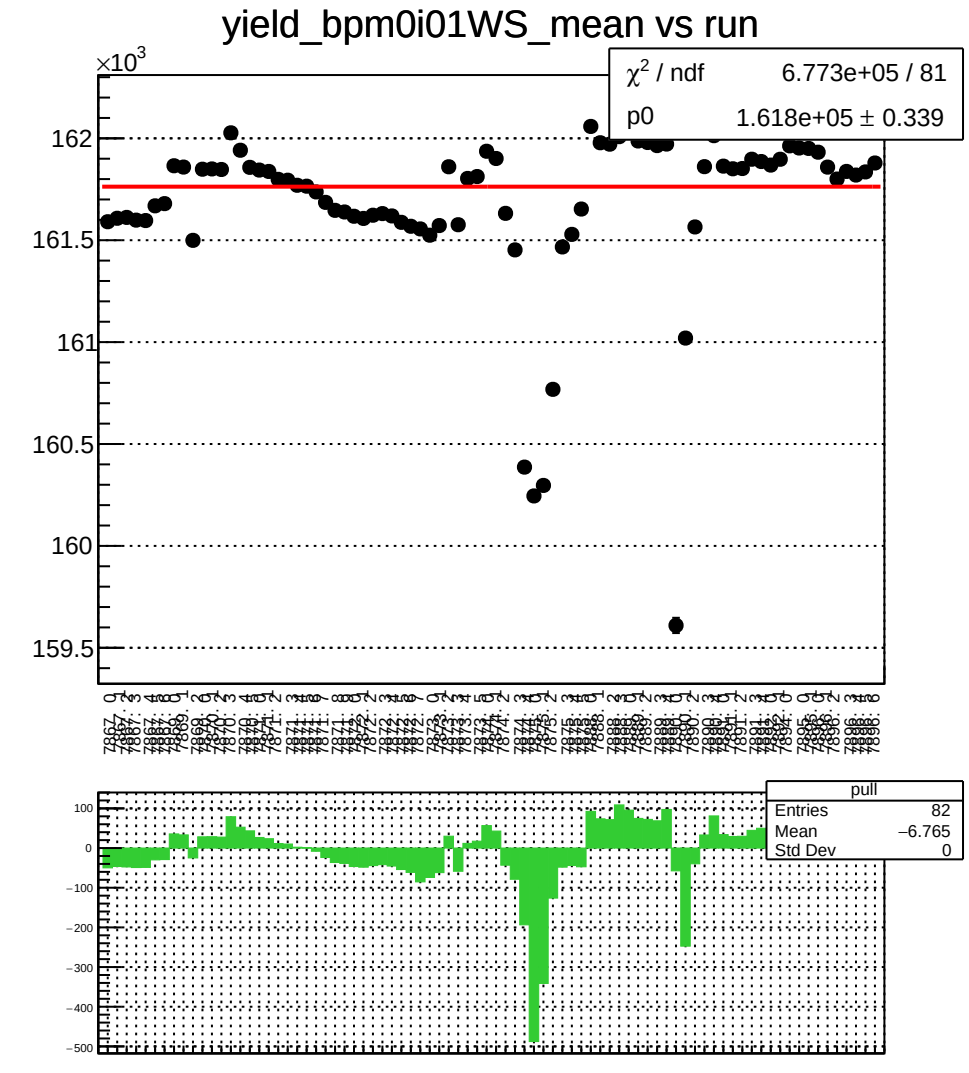

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.32e+05 / 81
p0 1.721e+05 ± 0.3116
172
171.5
171
170.5
170
pull
Entries 82
Mean 41.61
Std Dev 0
0
−100
−200
−300
−400

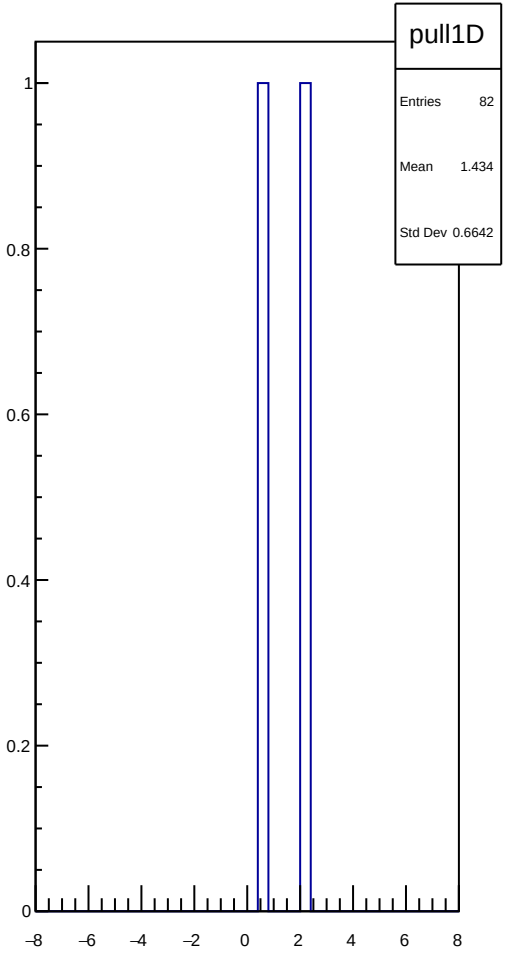

pull1D
Entries 82
Mean 0.4531
Std Dev 3.807
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

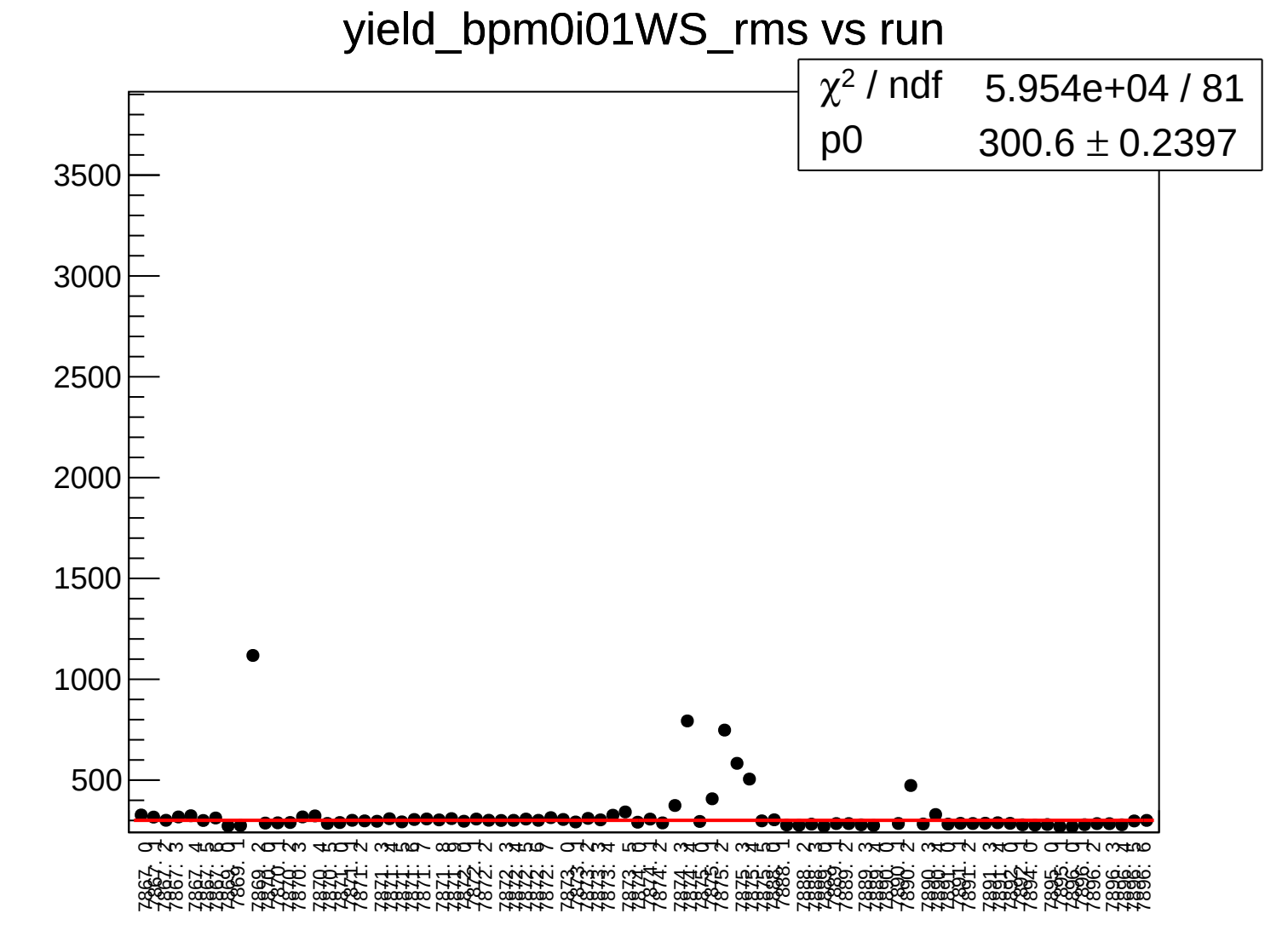

yield_bpm2i01WS_rms vs run
χ² / ndf 5.96e+04 / 81
p0 276.3 ± 0.2203
3500
3000
2500
2000
1500
1000
500

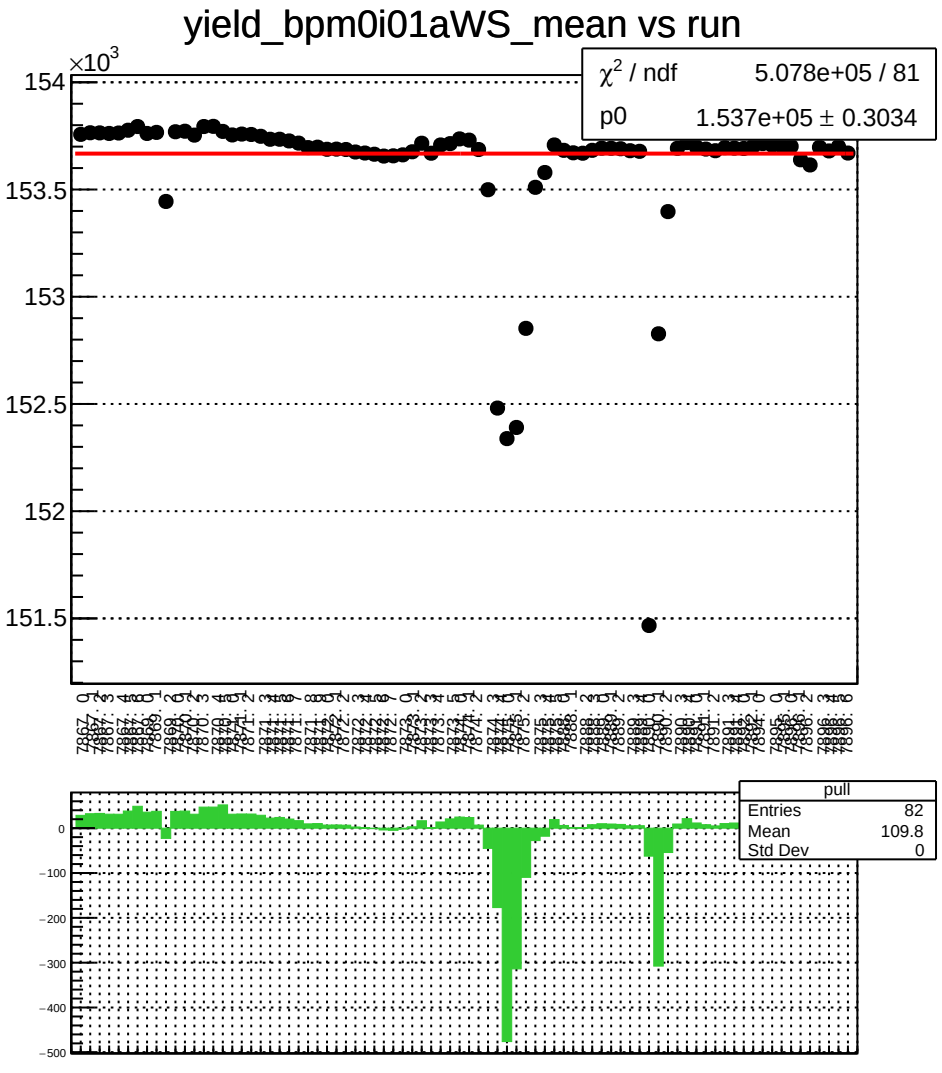

yield_bpm0i07WS_mean vs run
χ² / ndf 2.886e+06 / 81
p0 −1.374e+04 ± 0.02738
−13680
−13700
−13720
−13740
−13760
−13780
−13800
−13820
−13840
pull
Entries 82
Mean 463.3
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

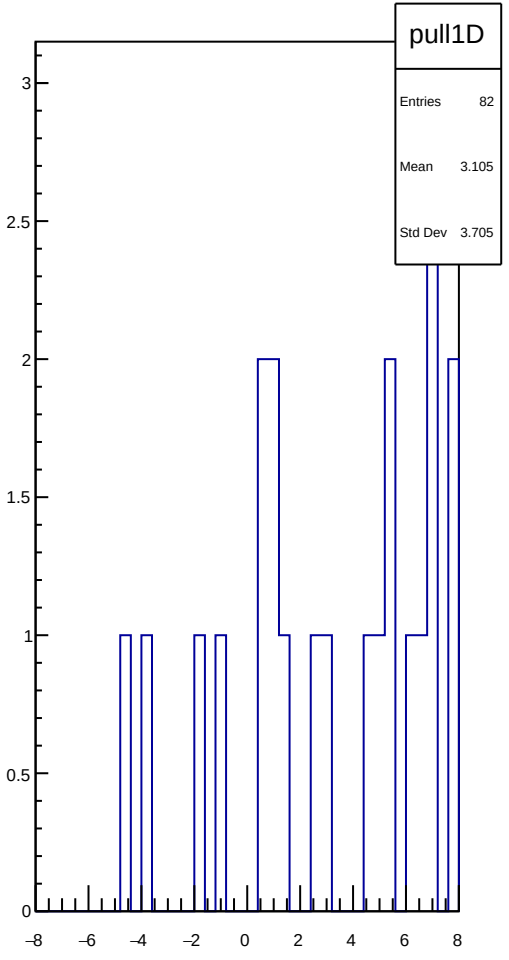

yield_bpm0i07WS_rms vs run
χ² / ndf 2.537e+04 / 81
p0 24.54 ± 0.01936
34
32
30
28
26
24
22
20
18
16

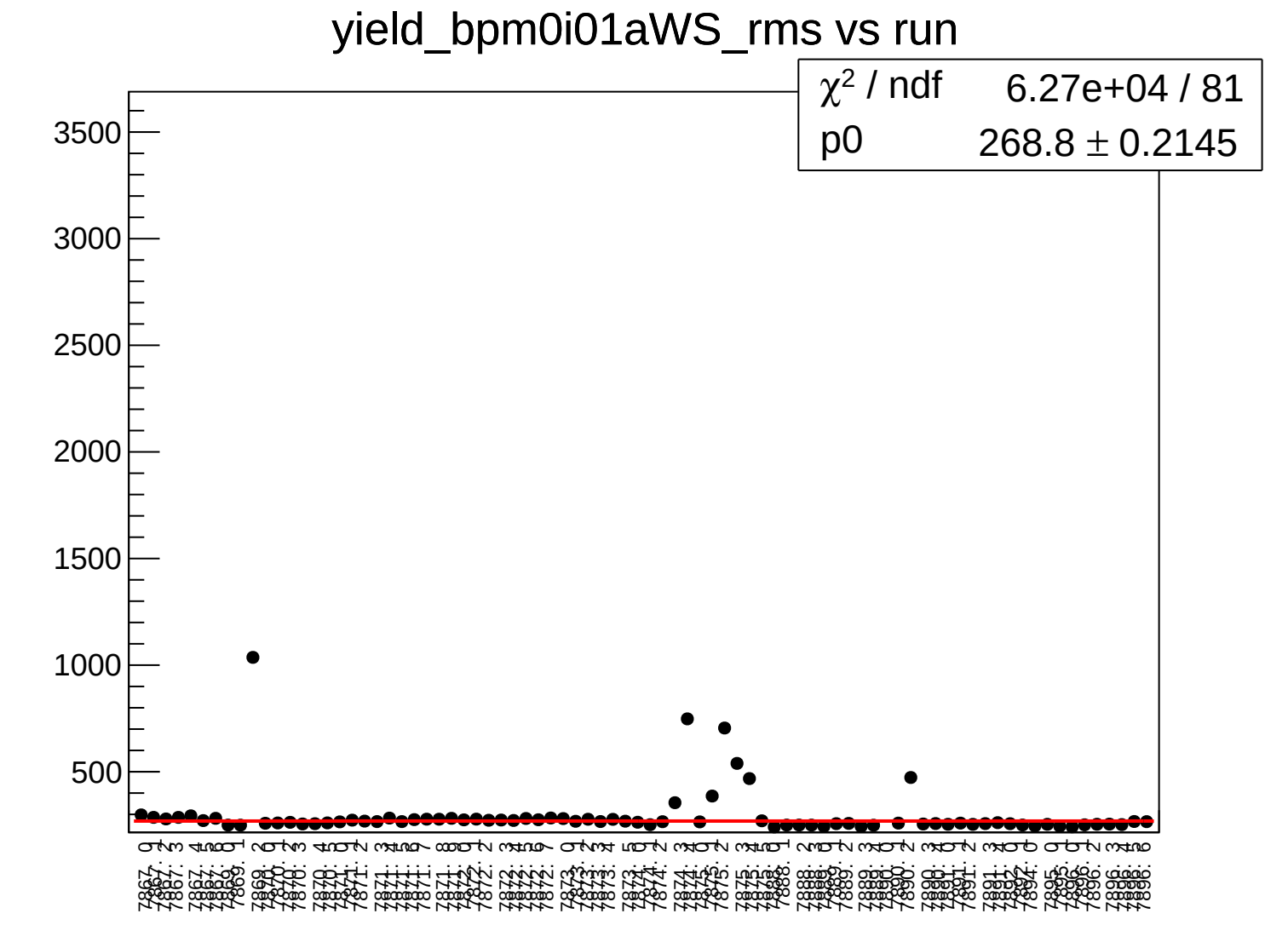

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 6.773e+05 / 81
p0 1.618e+05 ± 0.339
162
161.5
161
160.5
160
159.5
pull
Entries 82
Mean −6.765
Std Dev 0
100
0
−100
−200
−300
−400
−500

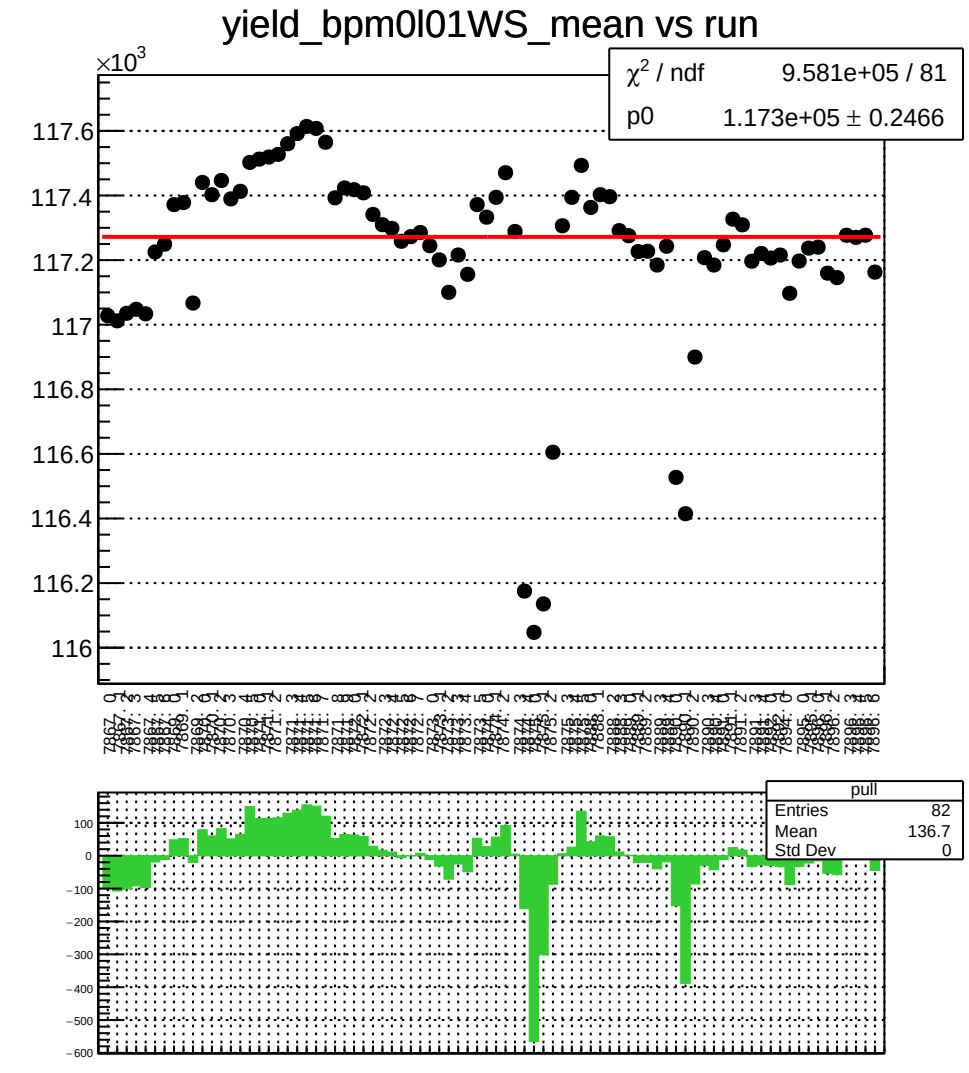

pull1D
Entries 82
Mean 1.434
Std Dev 0.6642
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

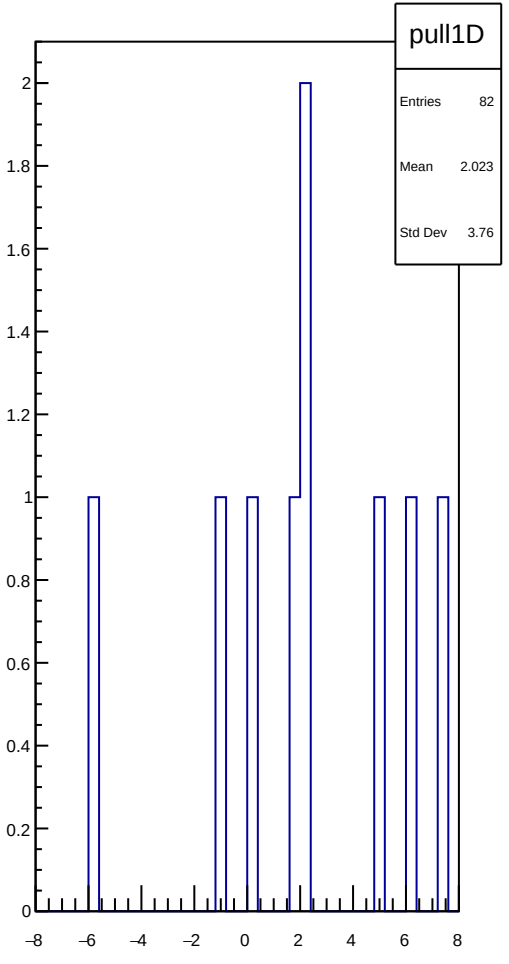

yield_bpm0i01WS_rms vs run
χ² / ndf 5.954e+04 / 81
p0 300.6 ± 0.2397
3500
3000
2500
2000
1500
1000
500

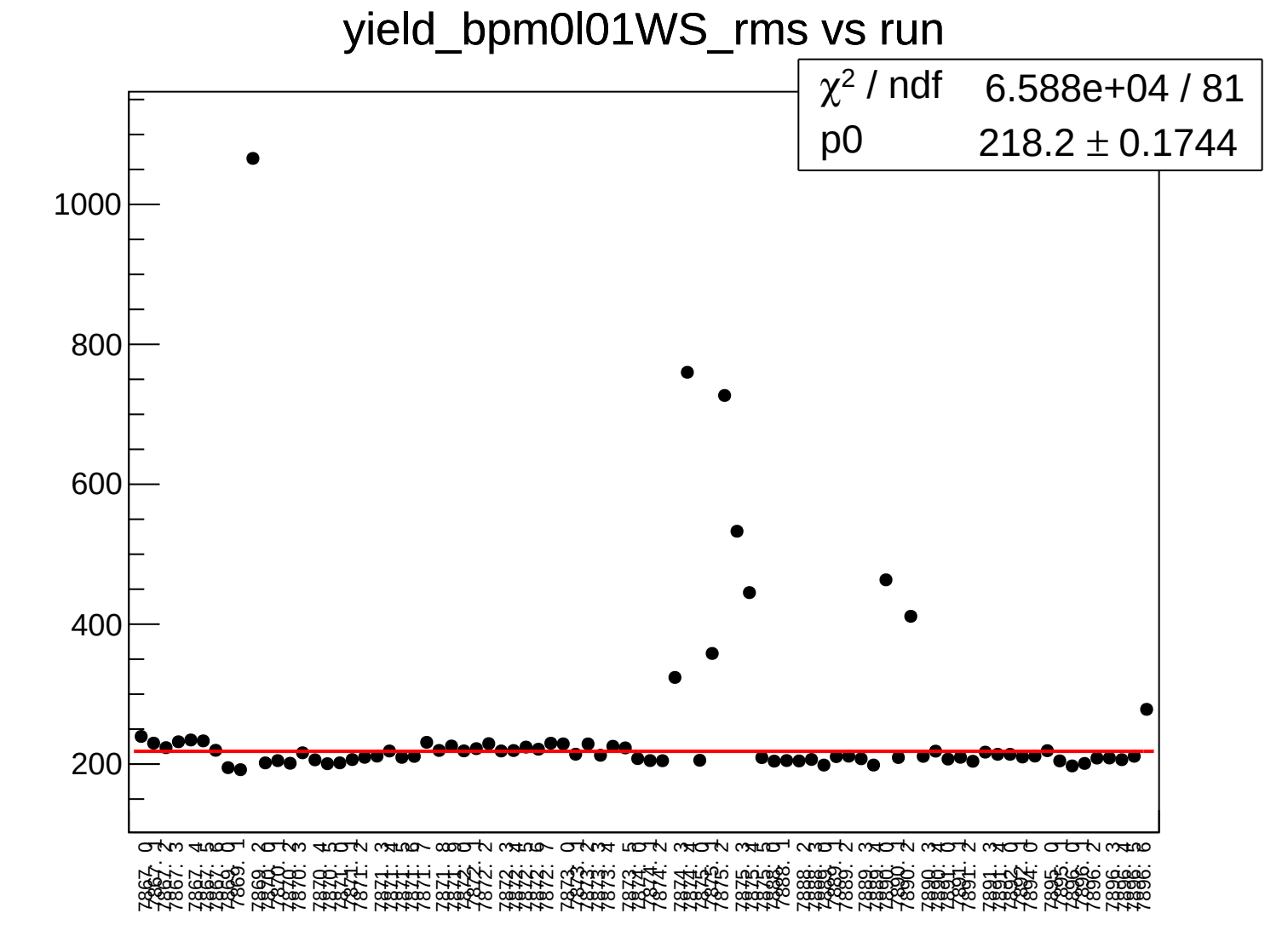

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5.078e+05 / 81
p0 1.537e+05 ± 0.3034
154
153.5
153
152.5
152
151.5
pull
Entries 82
Mean 109.8
Std Dev 0
0
−100
−200
−300
−400
−500

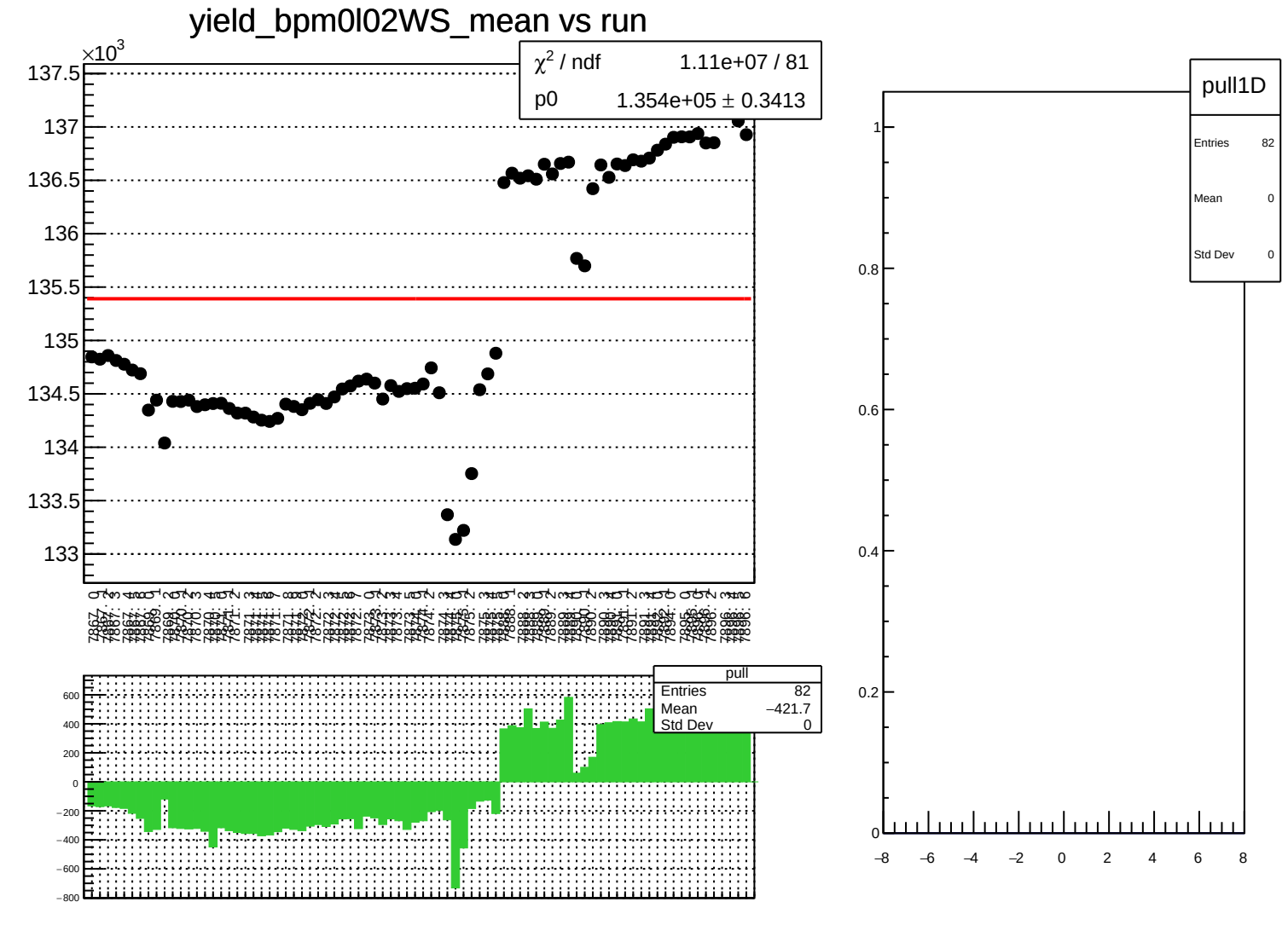

pull1D
Entries 82
Mean 3.105
Std Dev 3.705
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

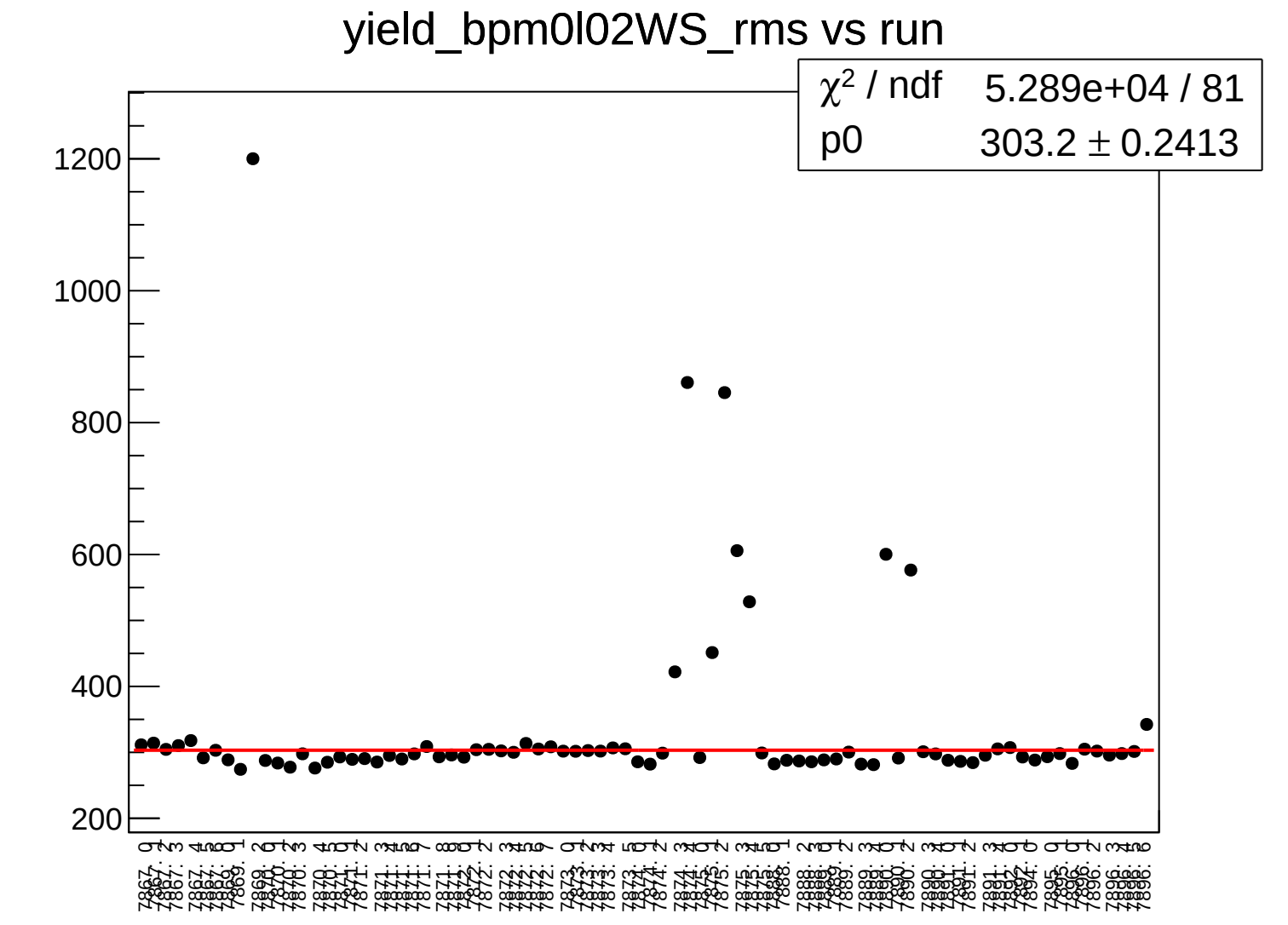

yield_bpm0i01aWS_rms vs run
χ² / ndf 6.27e+04 / 81
p0 268.8 ± 0.2145
3500
3000
2500
2000
1500
1000
500

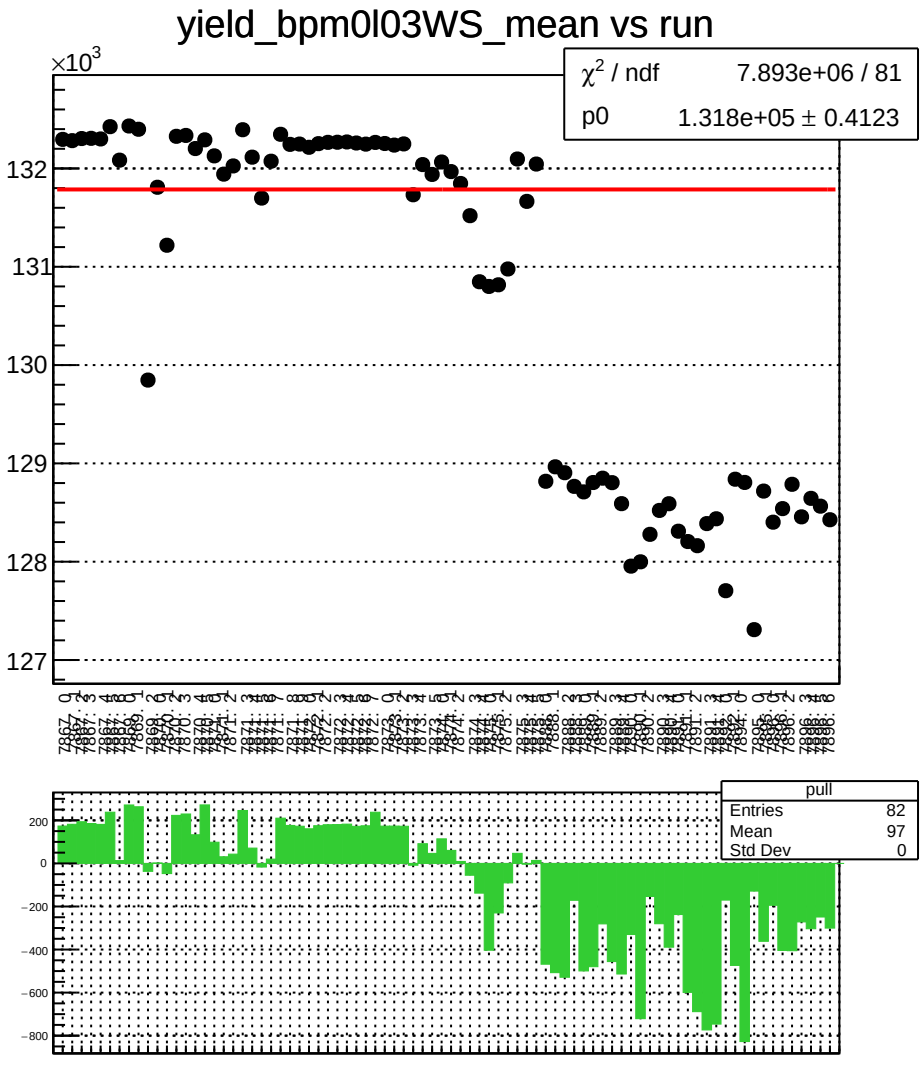

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 9.581e+05 / 81
p0 1.173e+05 ± 0.2466
117.6
117.4
117.2
117
116.8
116.6
116.4
116.2
116
pull
Entries 82
Mean 136.7
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600

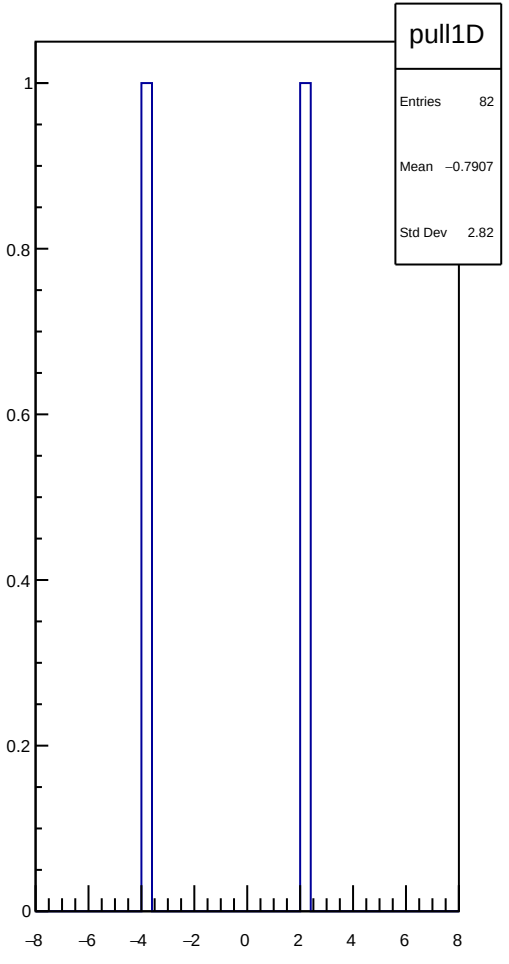

pull1D
Entries 82
Mean 2.023
Std Dev 3.76
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

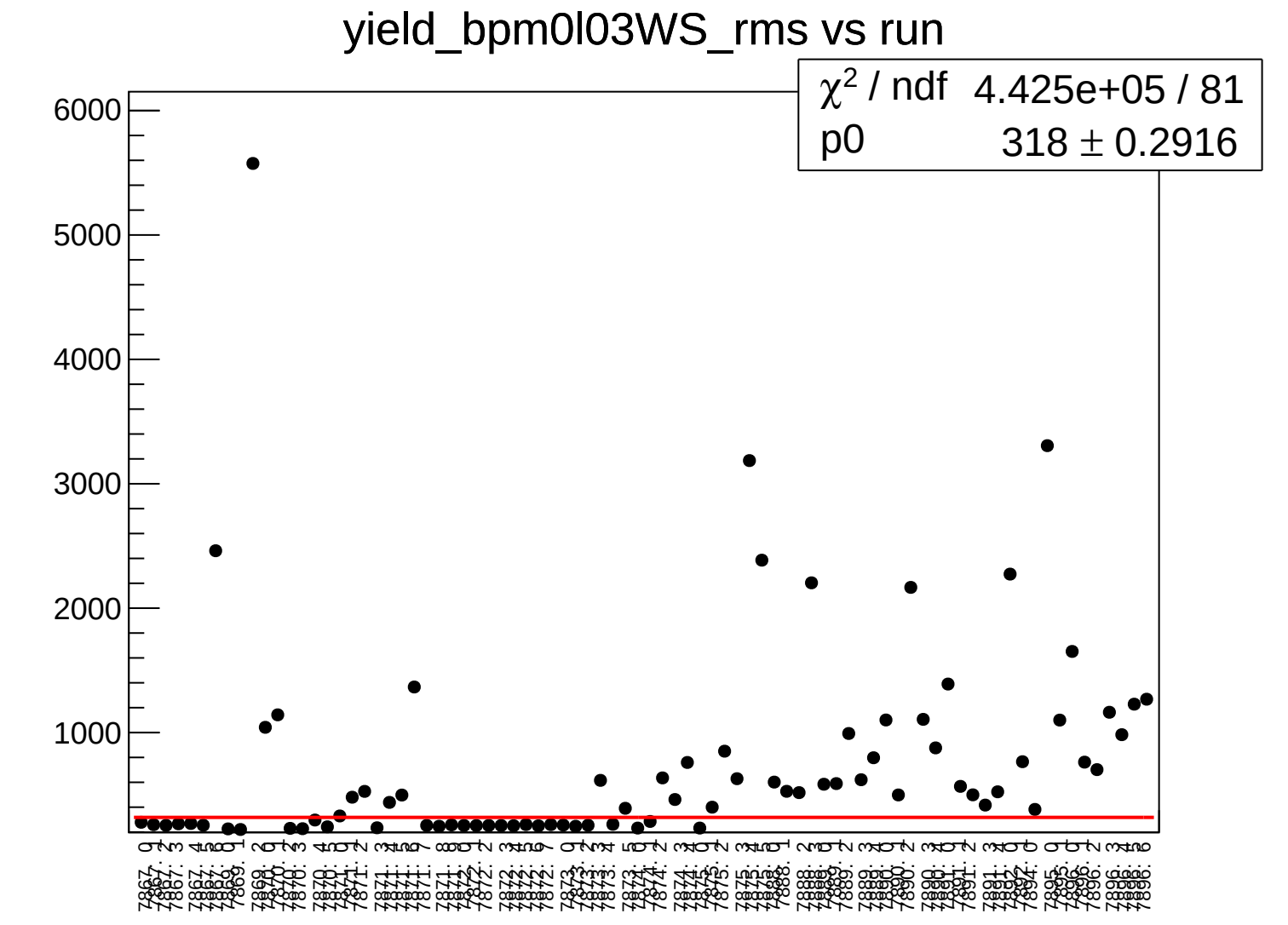

yield_bpm0l01WS_rms vs run
χ² / ndf 6.588e+04 / 81
p0 218.2 ± 0.1744
1000
800
600
400
200

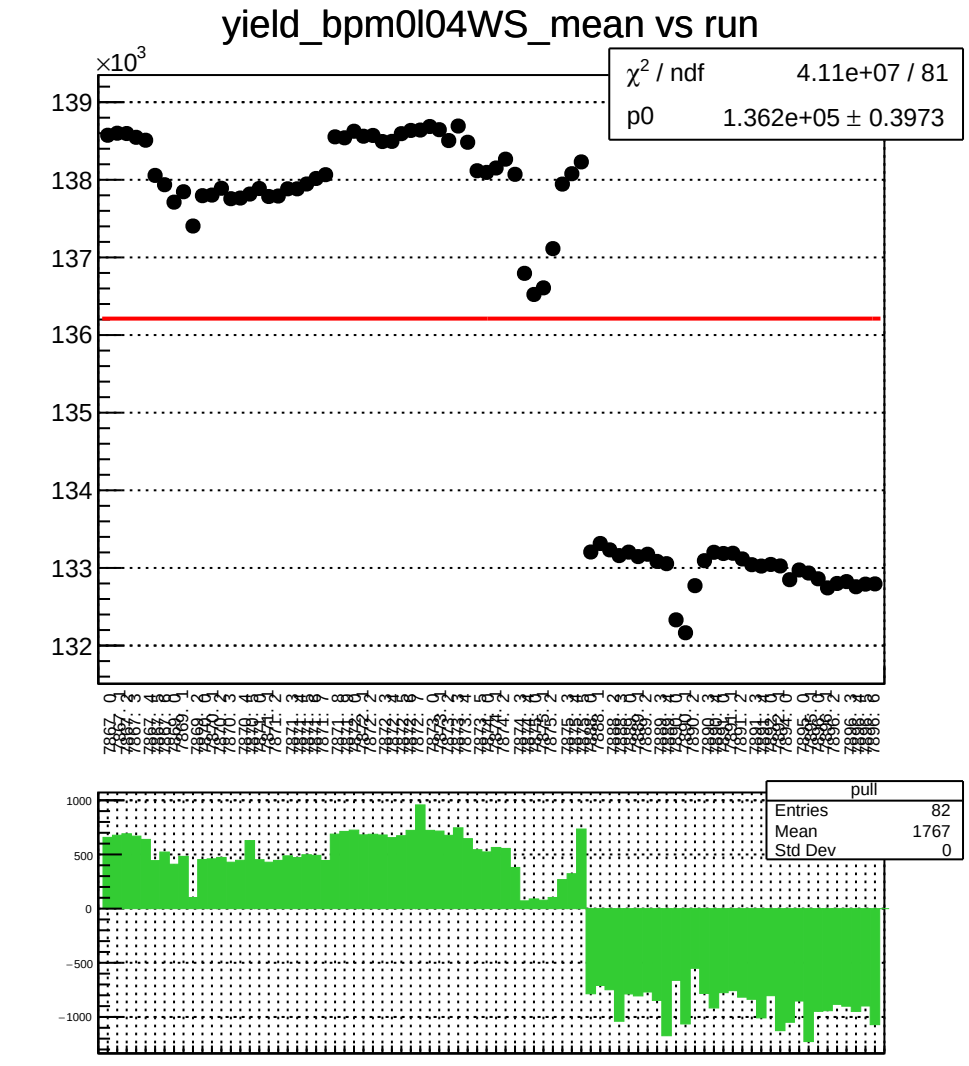

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.11e+07 / 81
p0 1.354e+05 ± 0.3413
137.5
137
136.5
136
135.5
135
134.5
134
133.5
133
pull
Entries 82
Mean −421.7
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

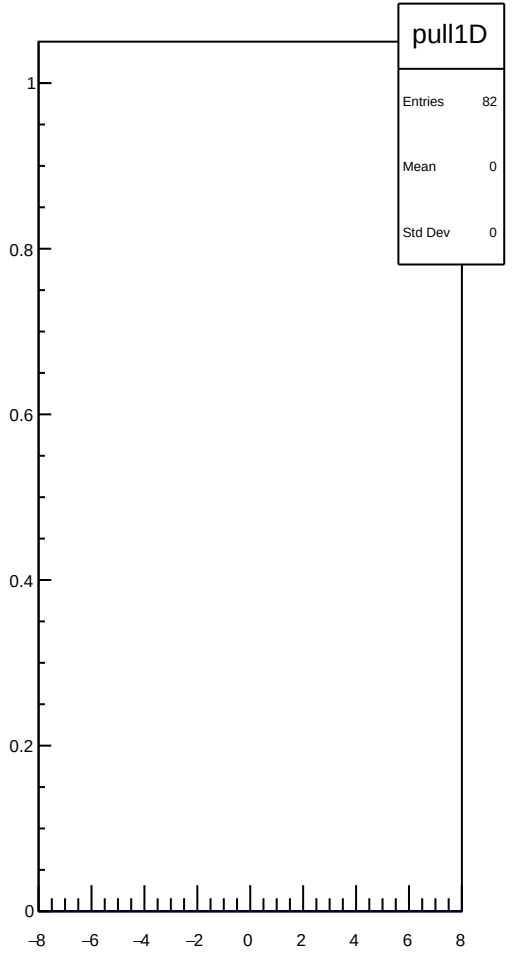

yield_bpm0l02WS_rms vs run
χ² / ndf 5.289e+04 / 81
p0 303.2 ± 0.2413
1200
1000
800
600
400
200

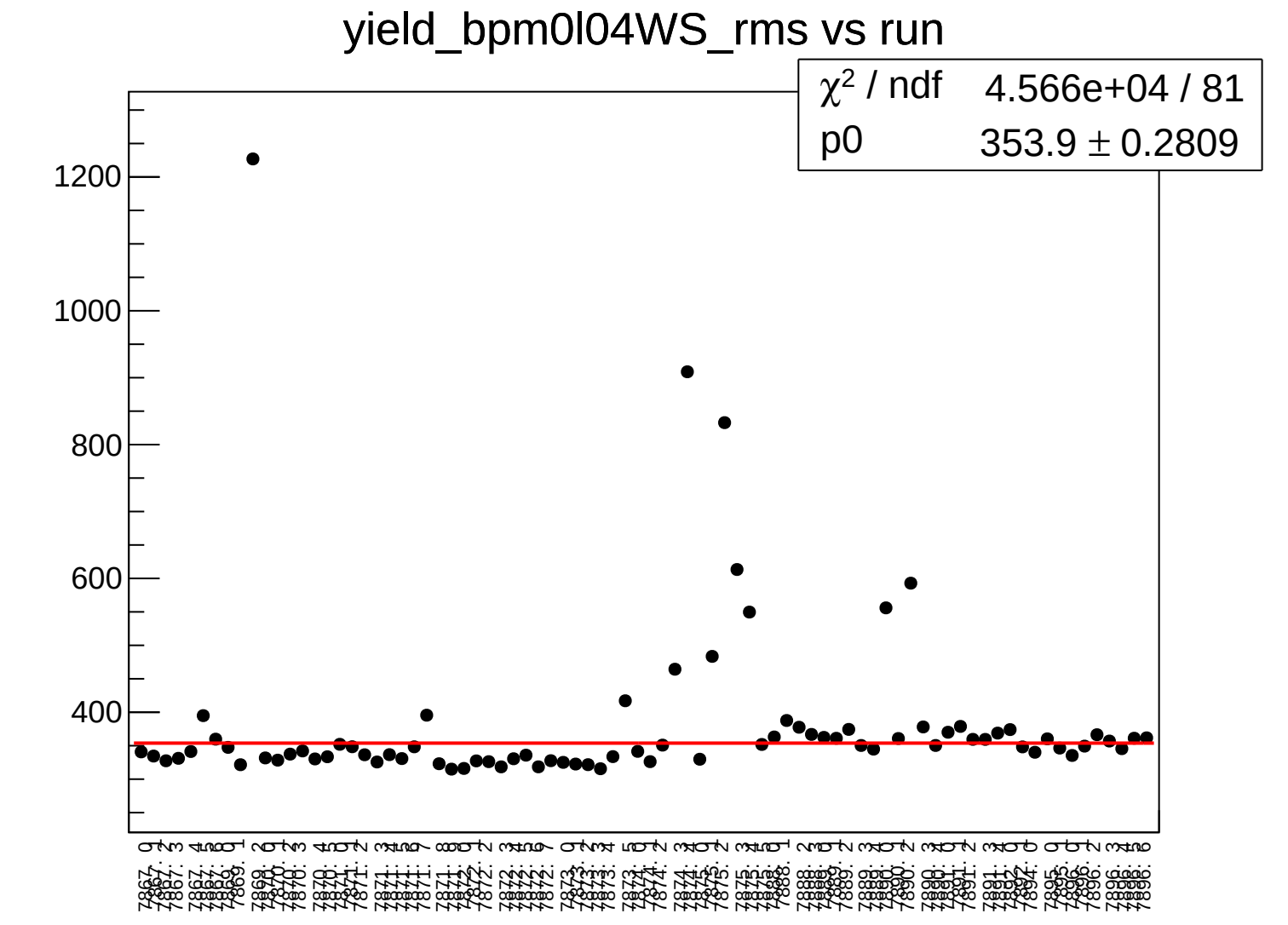

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 7.893e+06 / 81
p0 1.318e+05 ± 0.4123
132
131
130
129
128
127
pull
Entries 82
Mean 97
Std Dev 0
200
0
−200
−400
−600
−800

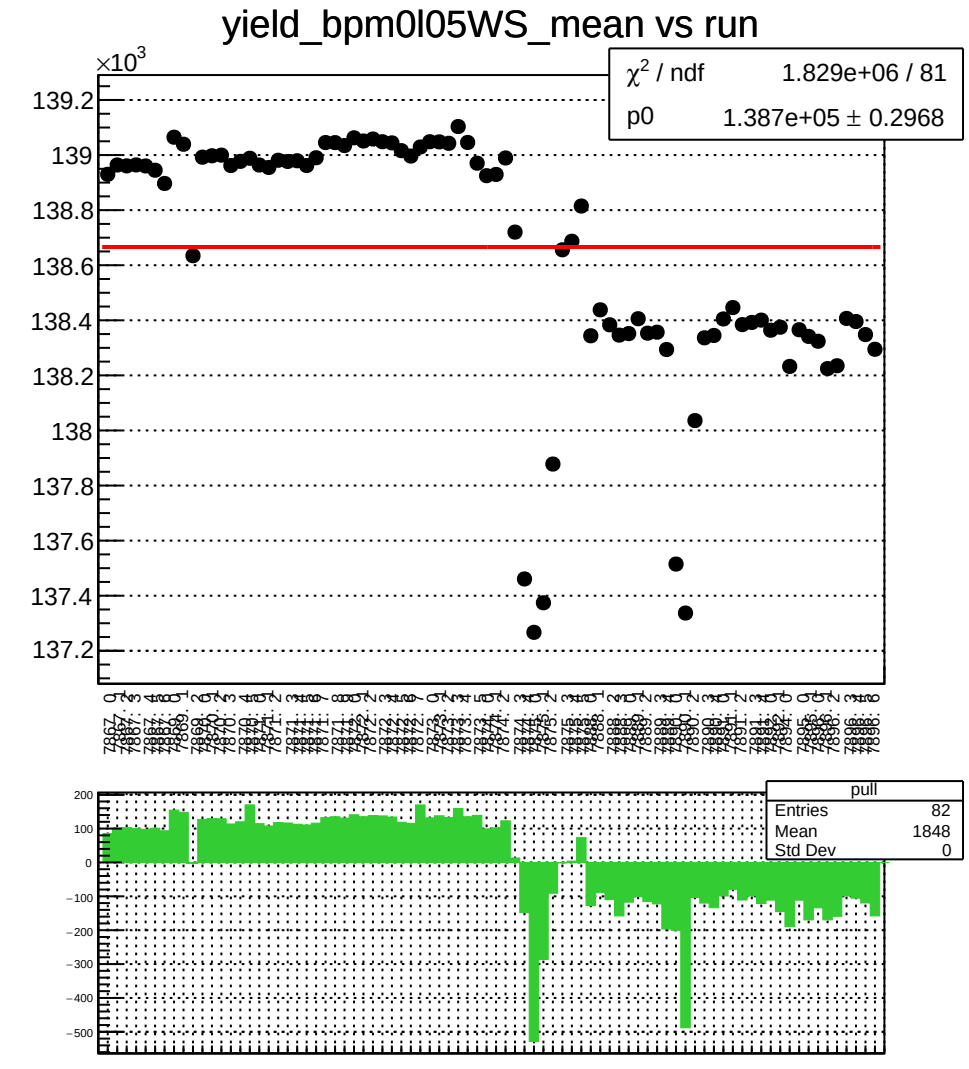

pull1D
Entries 82
Mean −0.7907
Std Dev 2.82
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

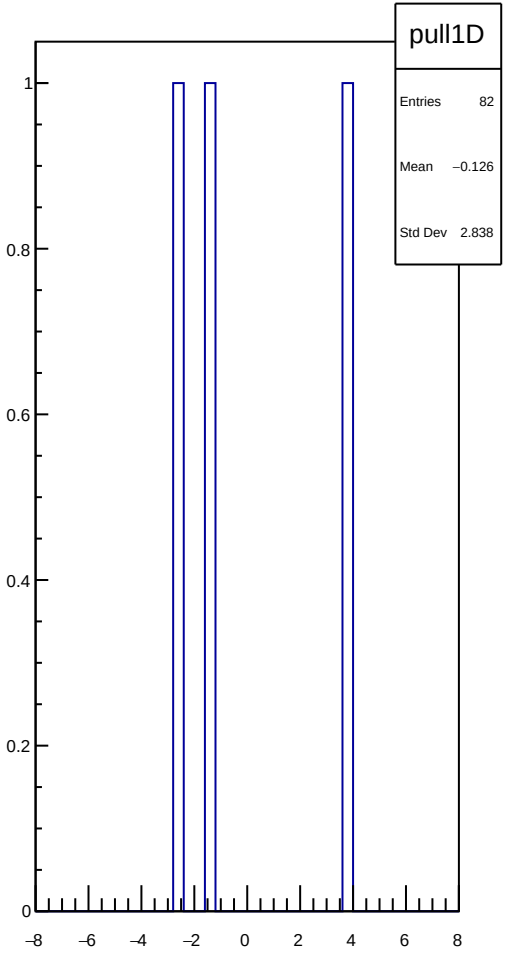

yield_bpm0l03WS_rms vs run
χ² / ndf 4.425e+05 / 81
p0 318 ± 0.2916
6000
5000
4000
3000
2000
1000

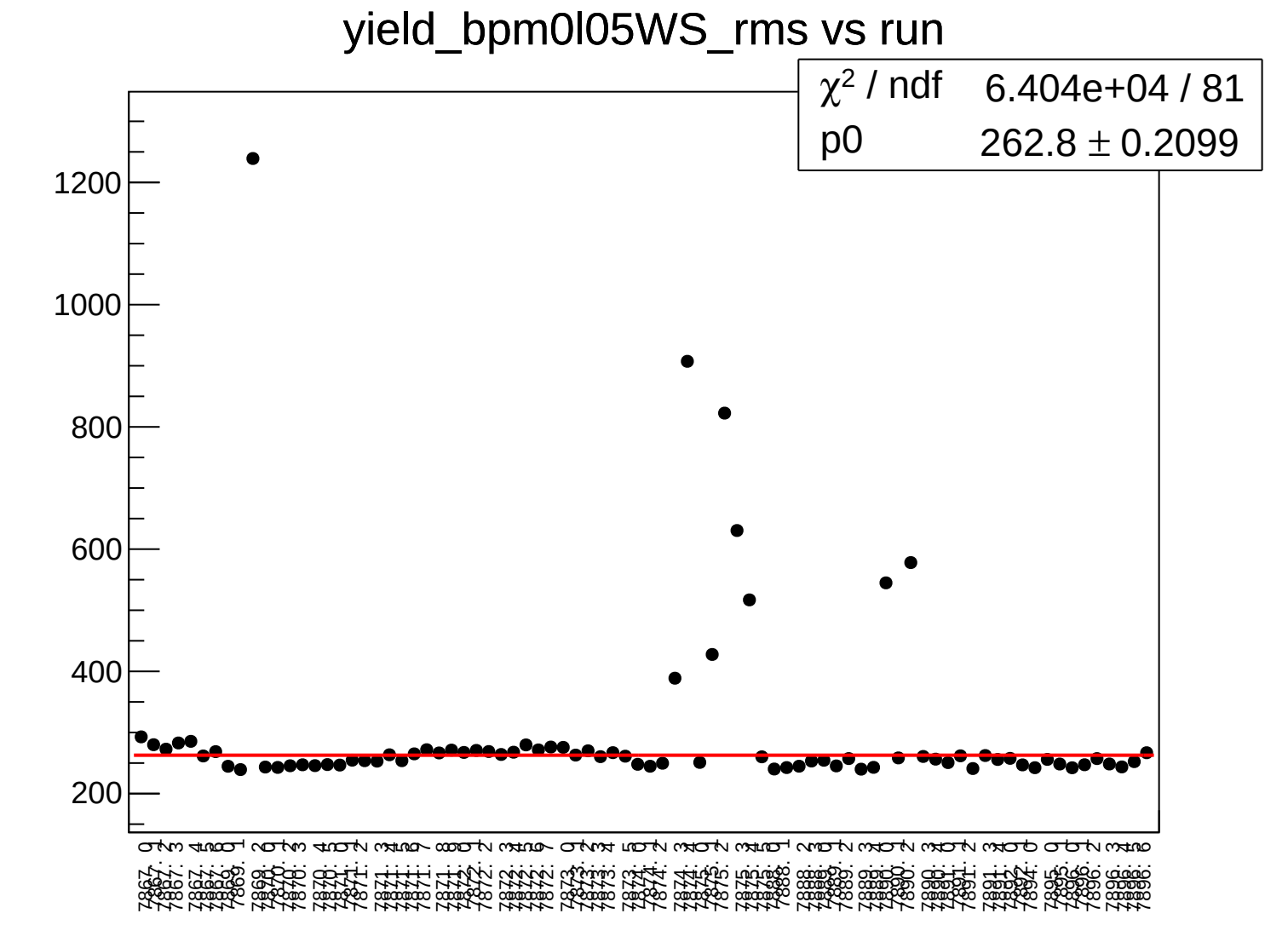

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.11e+07 / 81
p0 1.362e+05 ± 0.3973
pull
Entries 82
Mean 1767
Std Dev 0

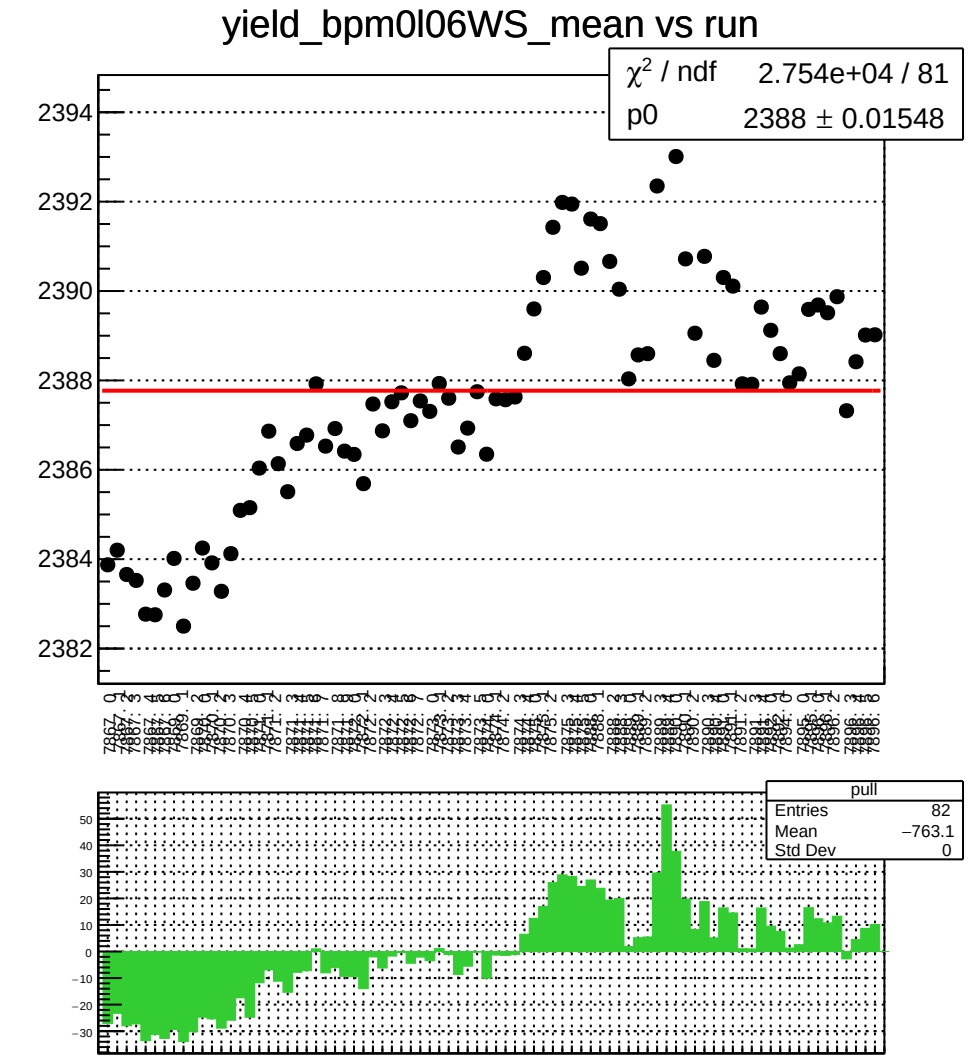

pull1D
Entries 82
Mean 0
Std Dev 0

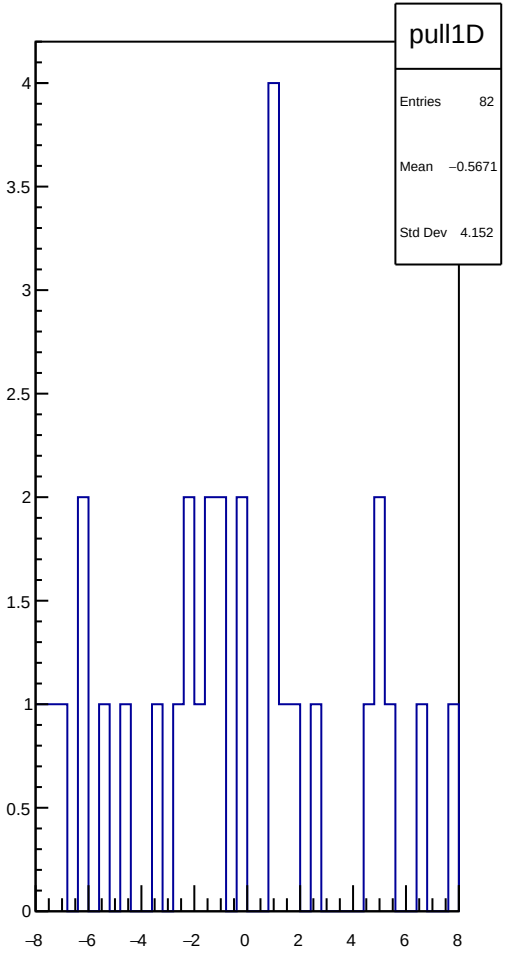

yield_bpm0l04WS_rms vs run
χ² / ndf 4.566e+04 / 81
p0 353.9 ± 0.2809
1200
1000
800
600
400

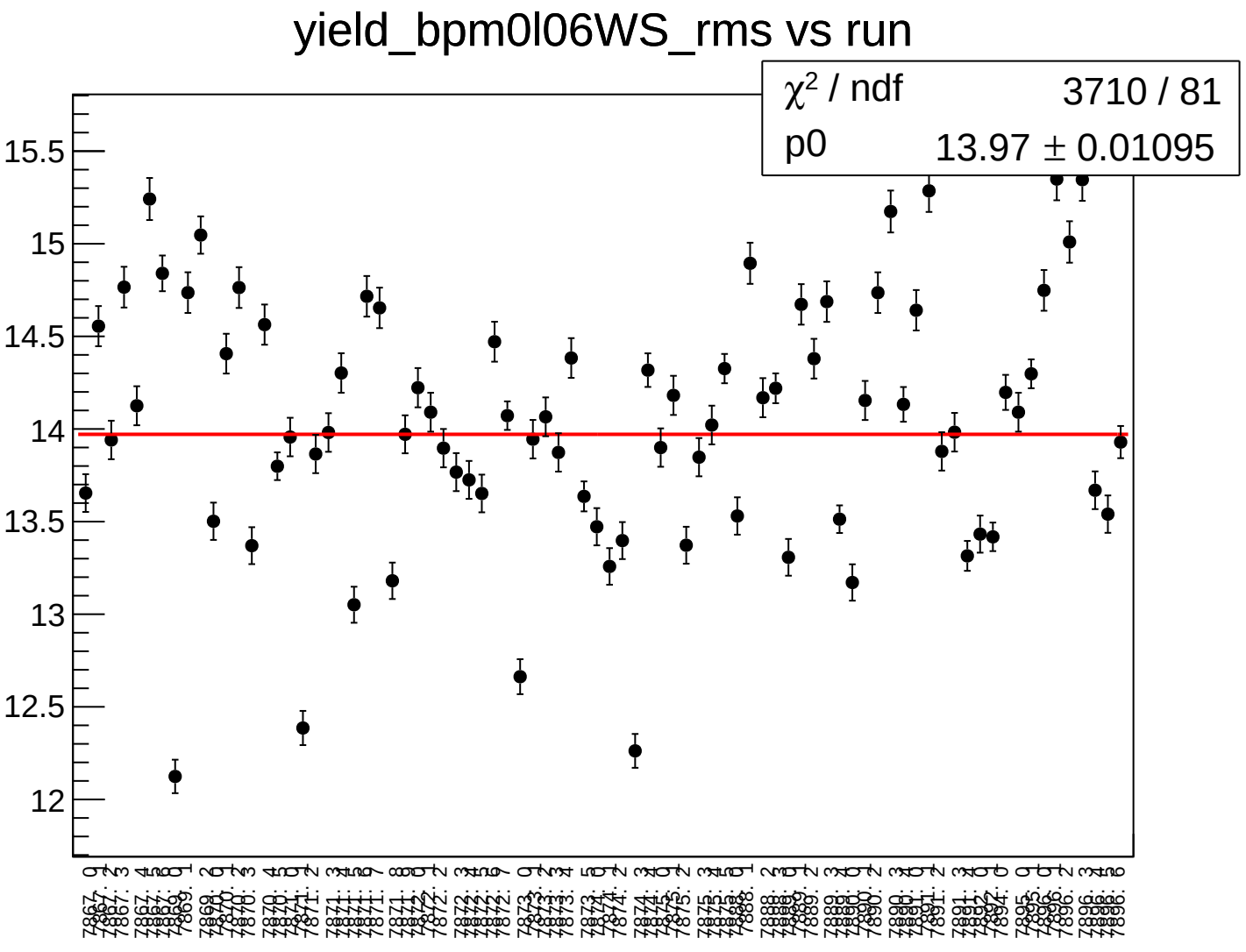

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 1.829e+06 / 81
p0 1.387e+05 ± 0.2968
139.2
139
138.8
138.6
138.4
138.2
138
137.8
137.6
137.4
137.2
pull
Entries 82
Mean 1848
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

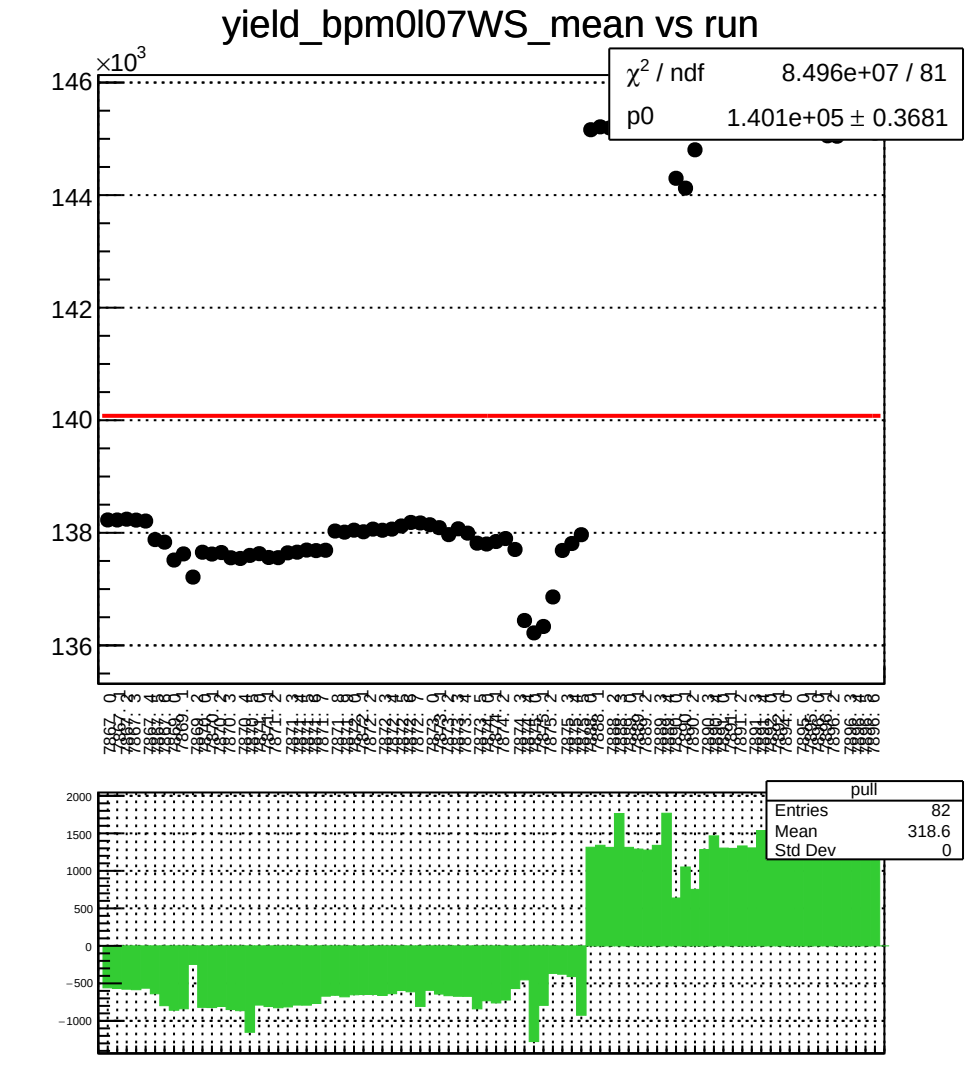

pull1D
Entries 82
Mean −0.126
Std Dev 2.838
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

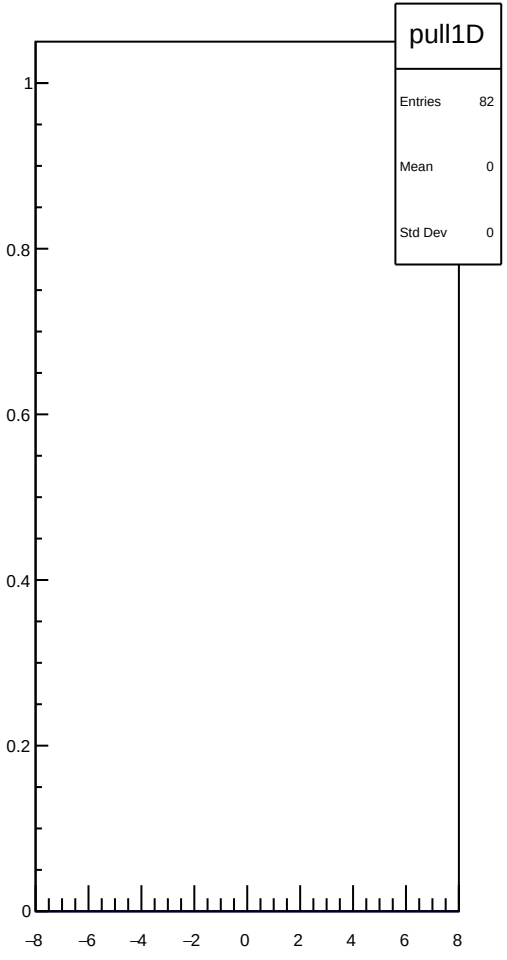

yield_bpm0l05WS_rms vs run
χ² / ndf 6.404e+04 / 81
p0 262.8 ± 0.2099
1200
1000
800
600
400
200

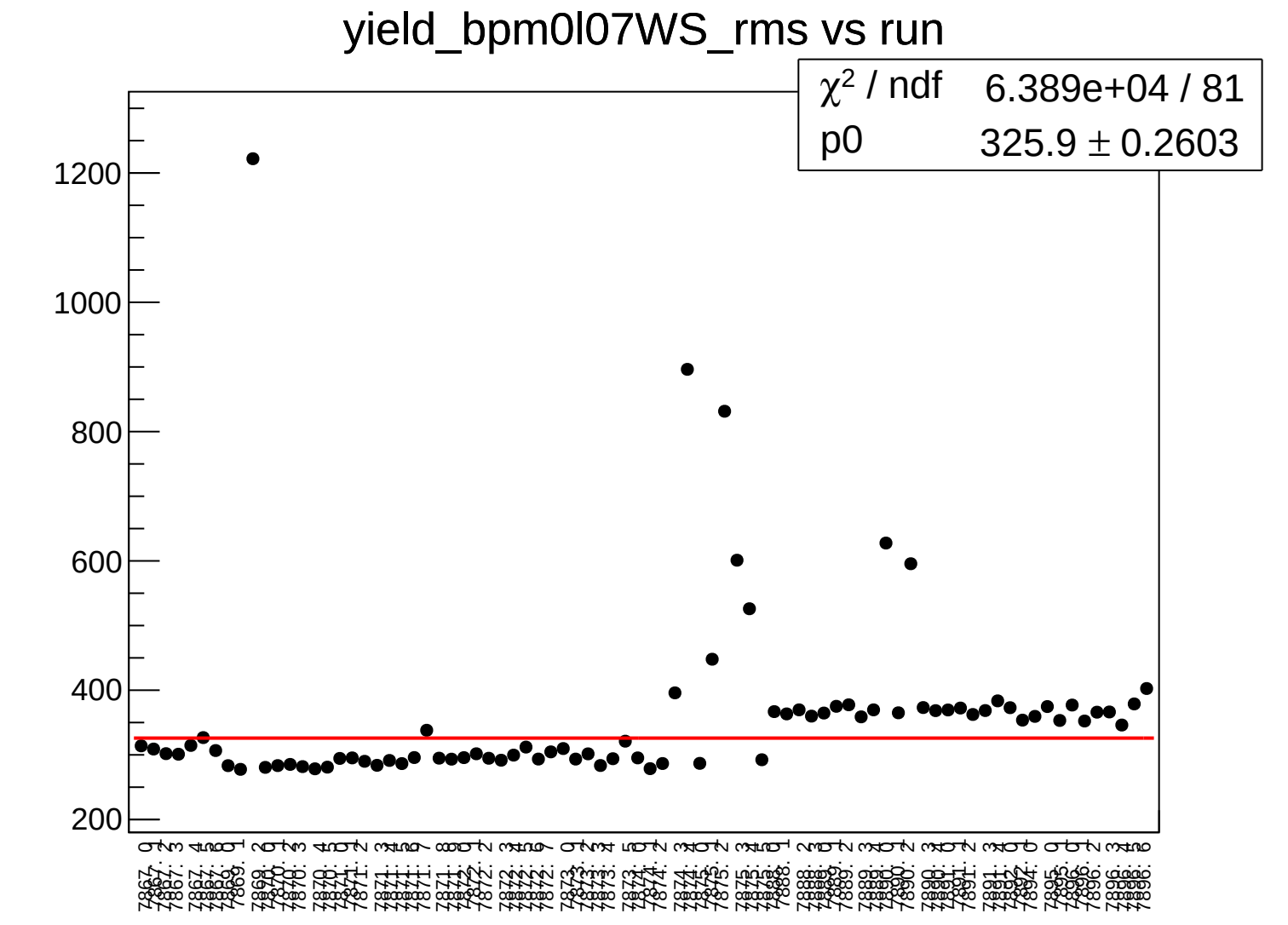

yield_bpm0l06WS_mean vs run
χ² / ndf 2.754e+04 / 81
p0 2388 ± 0.01548
2394
2392
2390
2388
2386
2384
2382
pull
Entries 82
Mean −763.1
Std Dev 0
50
40
30
20
10
0
−10
−20
−30

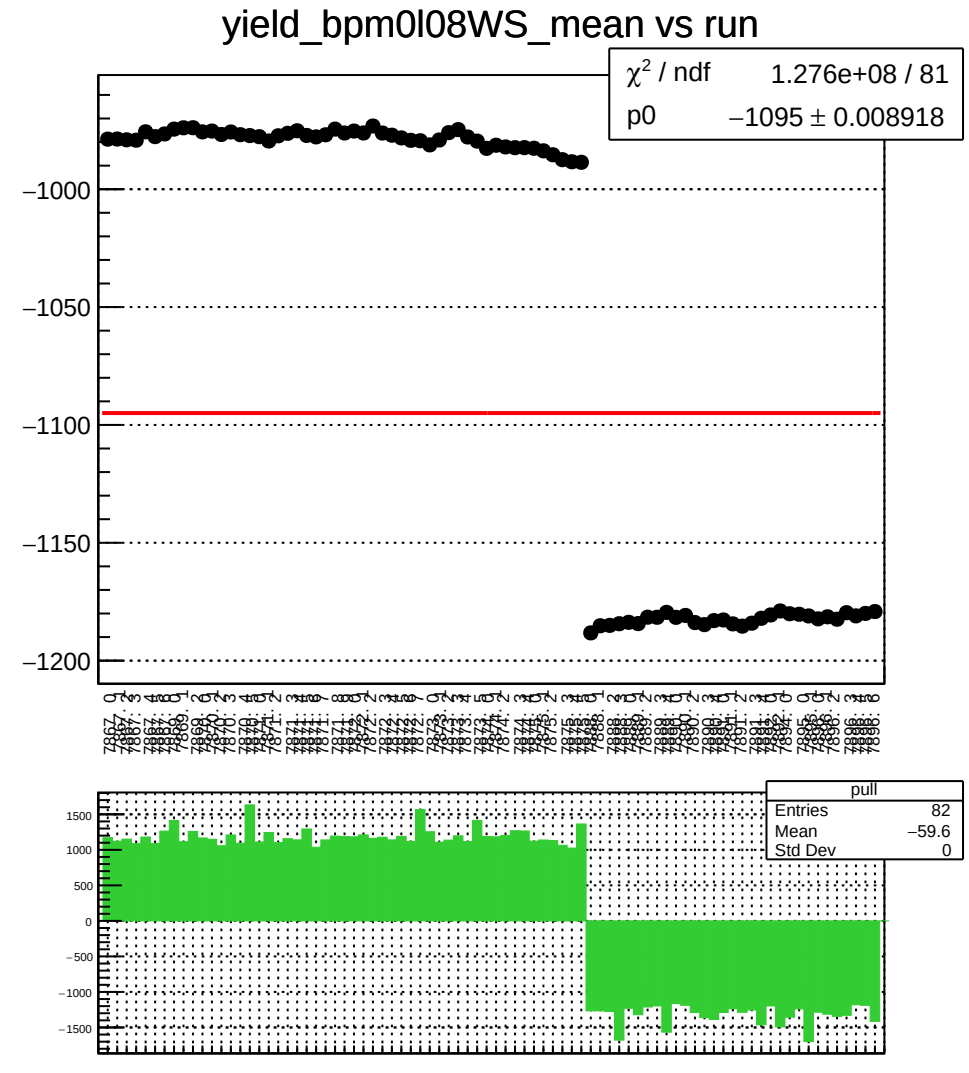

pull1D
Entries 82
Mean −0.5671
Std Dev 4.152
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

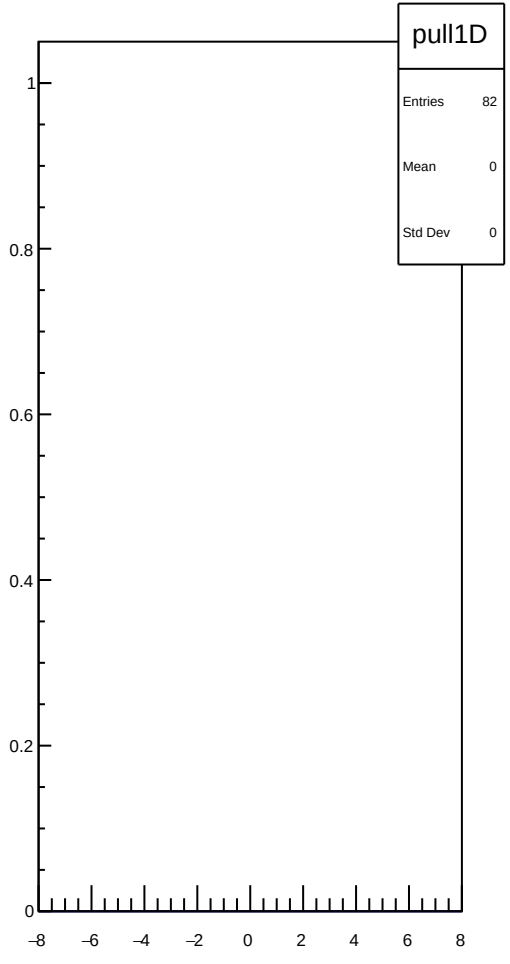

yield_bpm0l06WS_rms vs run
χ² / ndf 3710 / 81
p0 13.97 ± 0.01095
15.5
15
14.5
14
13.5
13
12.5
12

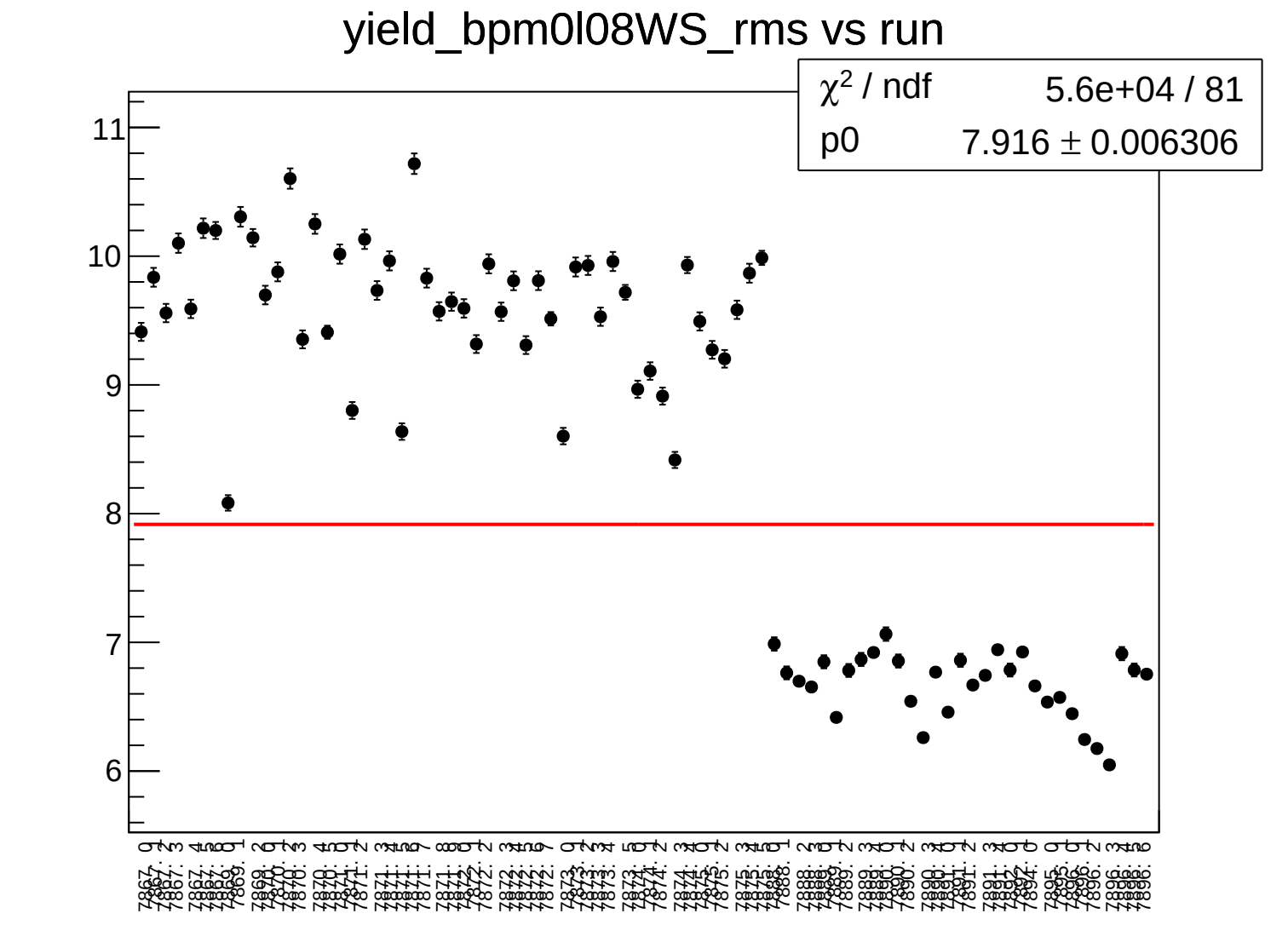

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 8.496e+07 / 81
p0 1.401e+05 ± 0.3681
146
144
142
140
138
136
pull
Entries 82
Mean 318.6
Std Dev 0
2000
1500
1000
500
0
−500
−1000

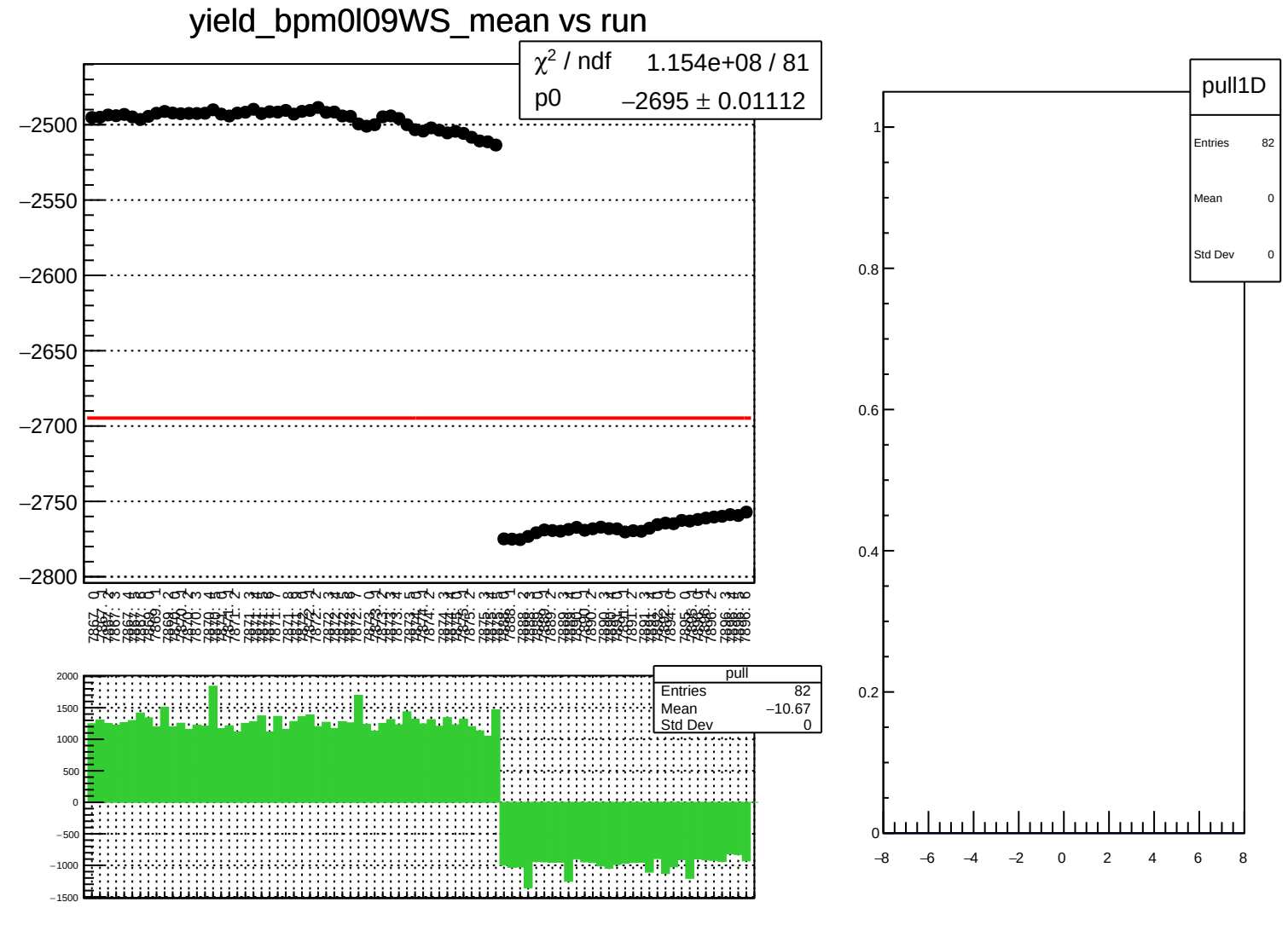

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

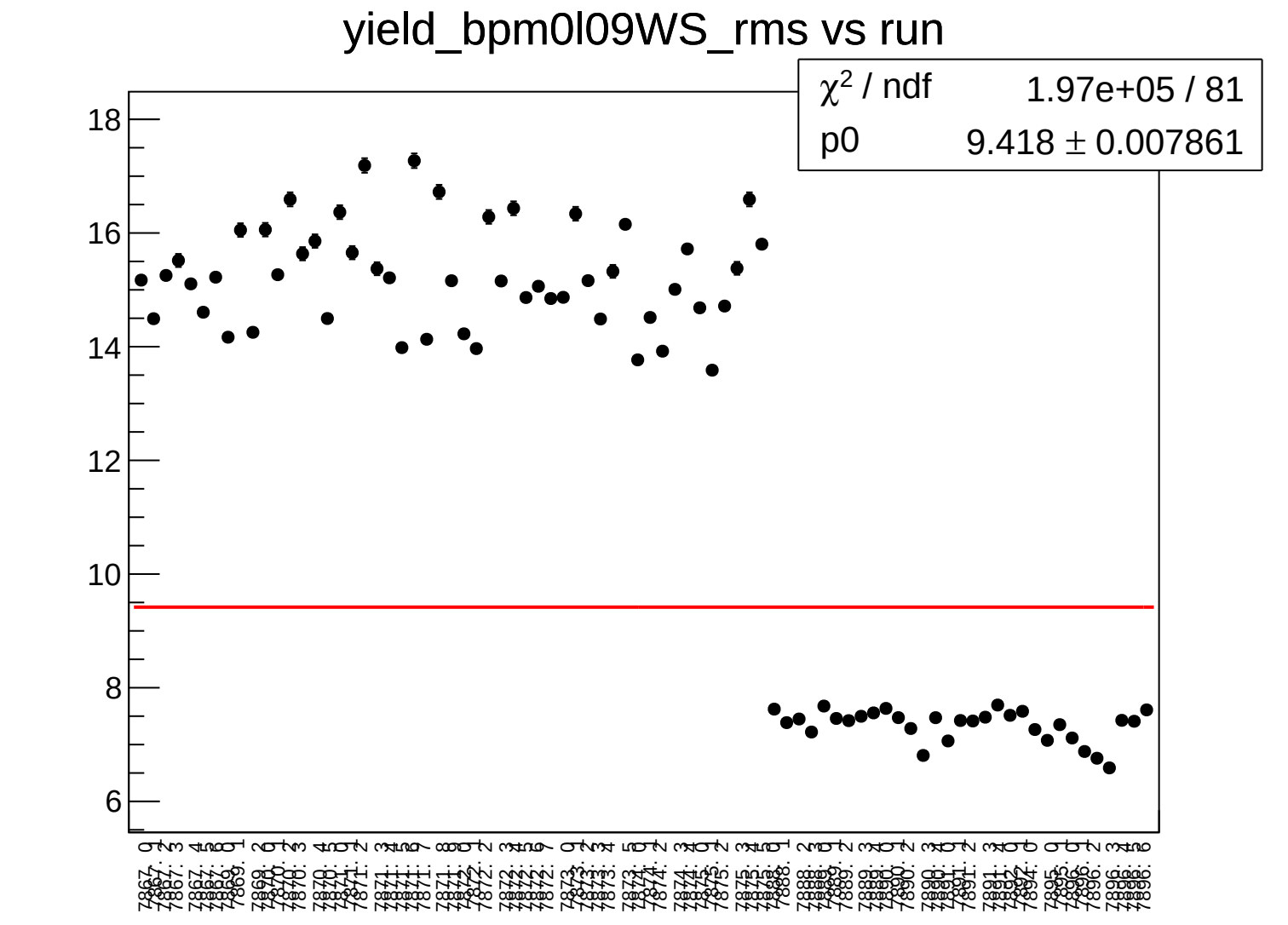

yield_bpm0l07WS_rms vs run
χ² / ndf 6.389e+04 / 81
p0 325.9 ± 0.2603
1200
1000
800
600
400
200

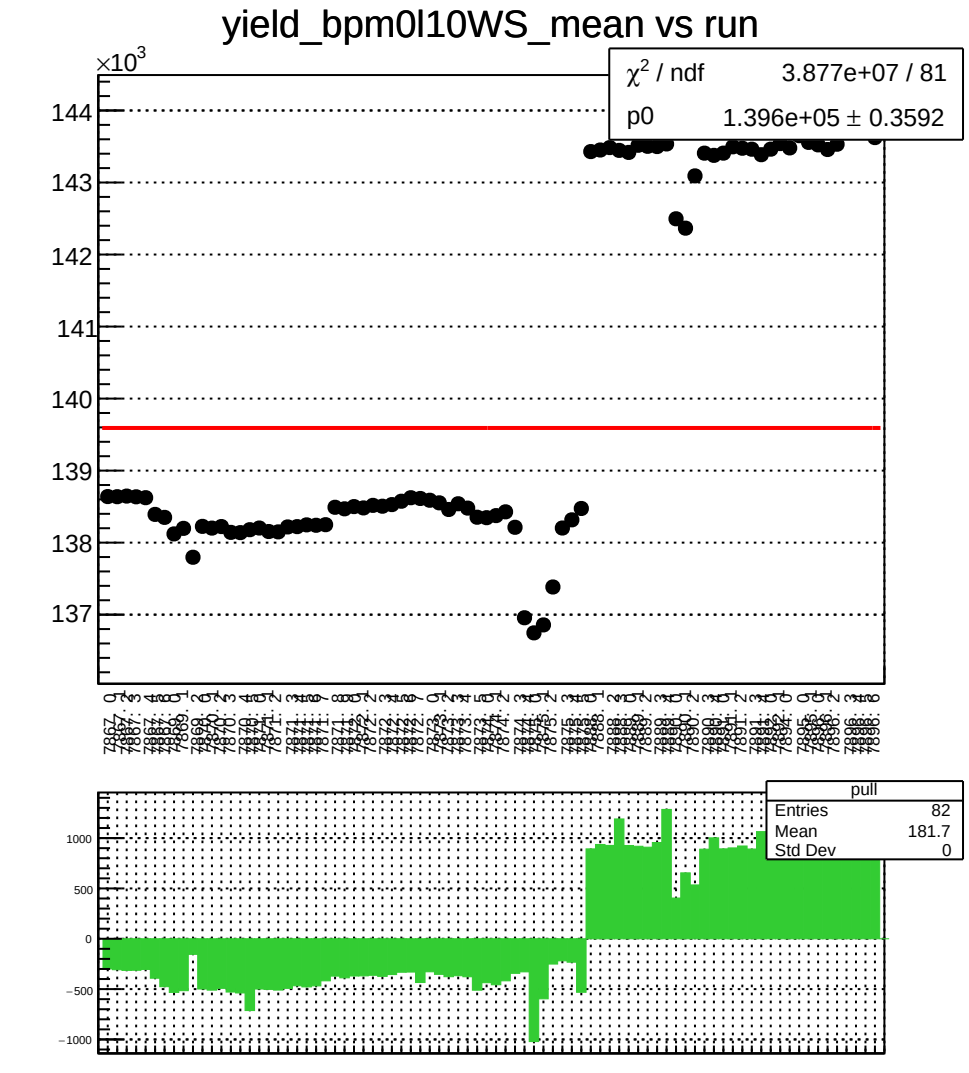

yield_bpm0l08WS_mean vs run
χ² / ndf 1.276e+08 / 81
p0 −1095 ± 0.008918
−1000
−1050
−1100
−1150
−1200
pull
Entries 82
Mean −59.6
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

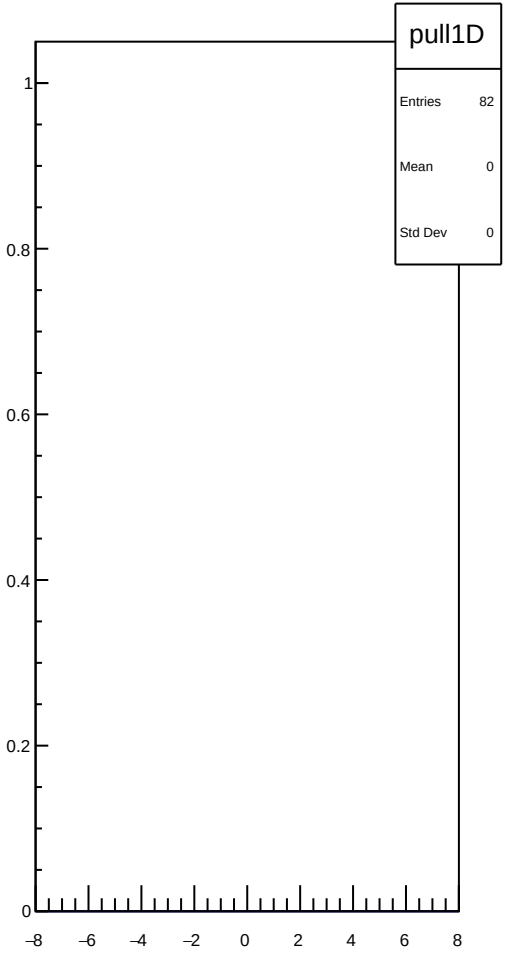

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

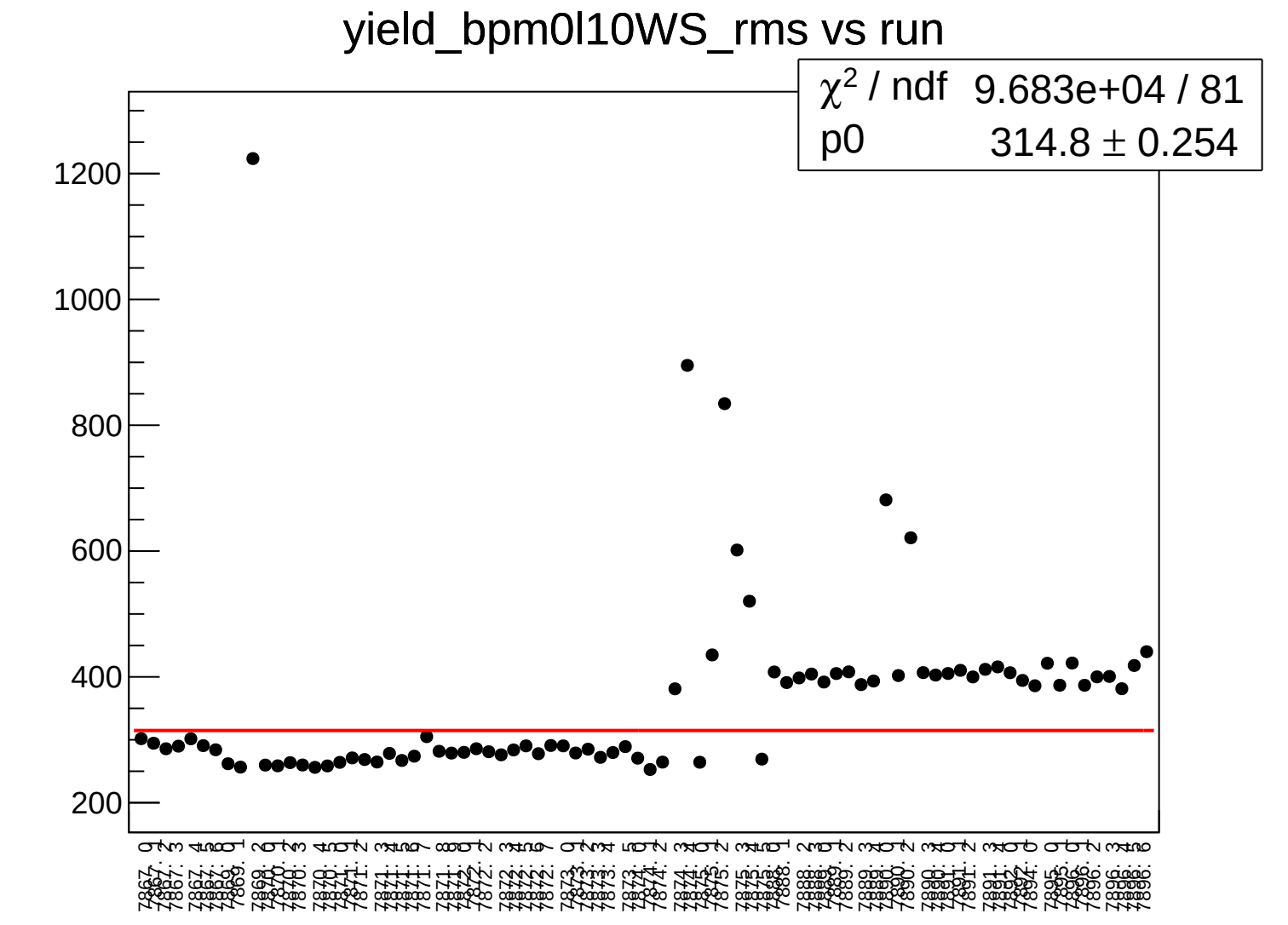

yield_bpm0l08WS_rms vs run
χ^2 / ndf 5.6e+04 / 81
p0 7.916 ± 0.006306
11
10
9
8
7
6

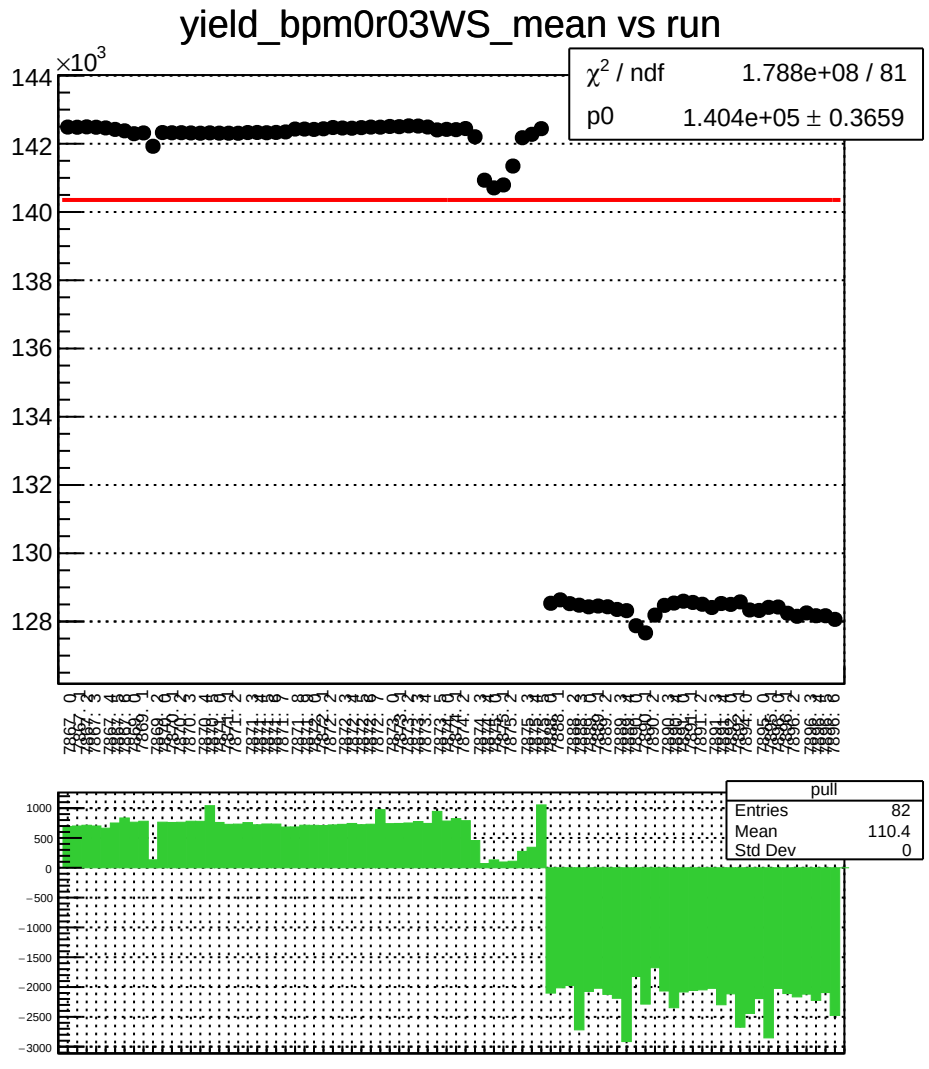

yield_bpm0l09WS_mean vs run
χ² / ndf 1.154e+08 / 81
p0 −2695 ± 0.01112
−2500
−2550
−2600
−2650
−2700
−2750
−2800
pull
Entries 82
Mean −10.67
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

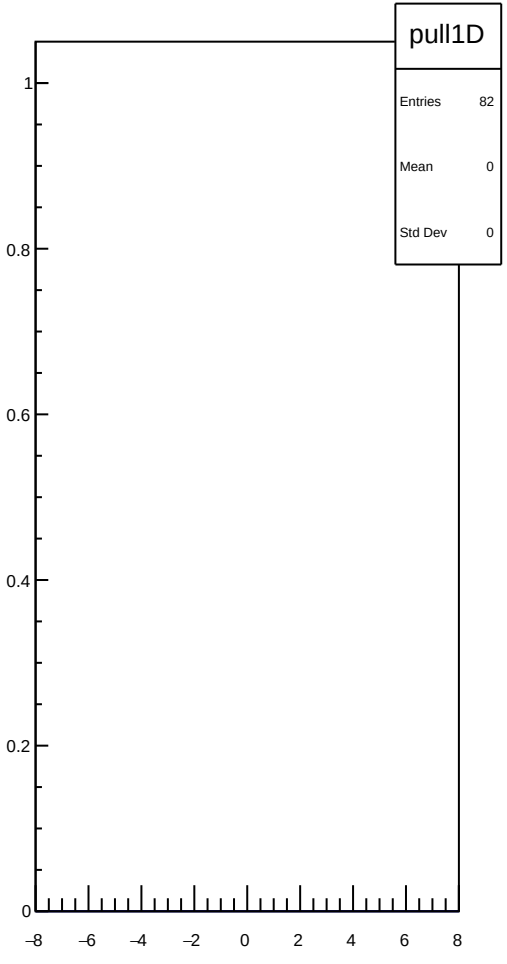

yield_bpm0l09WS_rms vs run
χ² / ndf 1.97e+05 / 81
p0 9.418 ± 0.007861
18
16
14
12
10
8
6

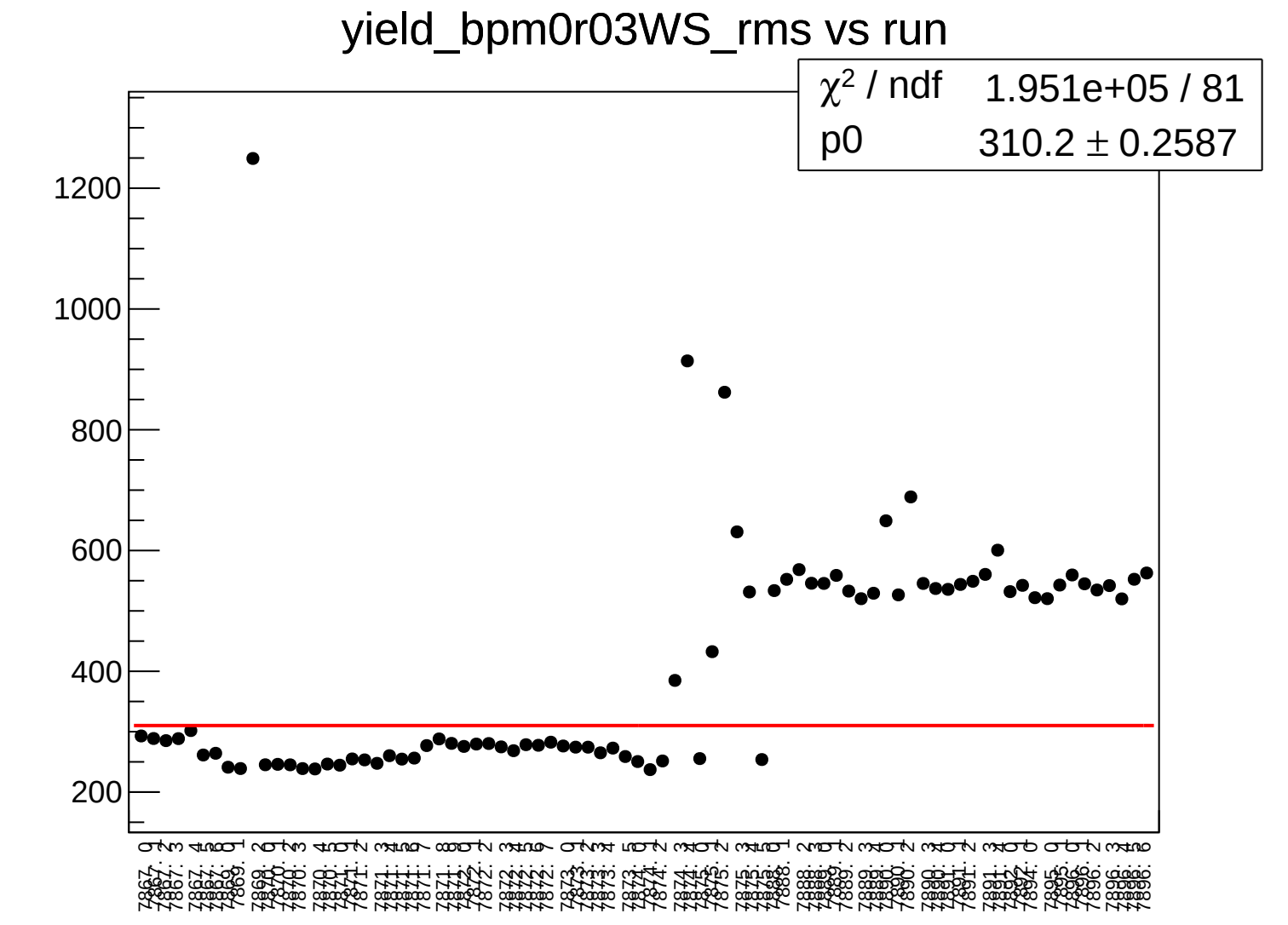

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.877e+07 / 81
p0 1.396e+05 ± 0.3592
144
143
142
141
140
139
138
137
pull
Entries 82
Mean 181.7
Std Dev 0
1000
500
0
−500
−1000

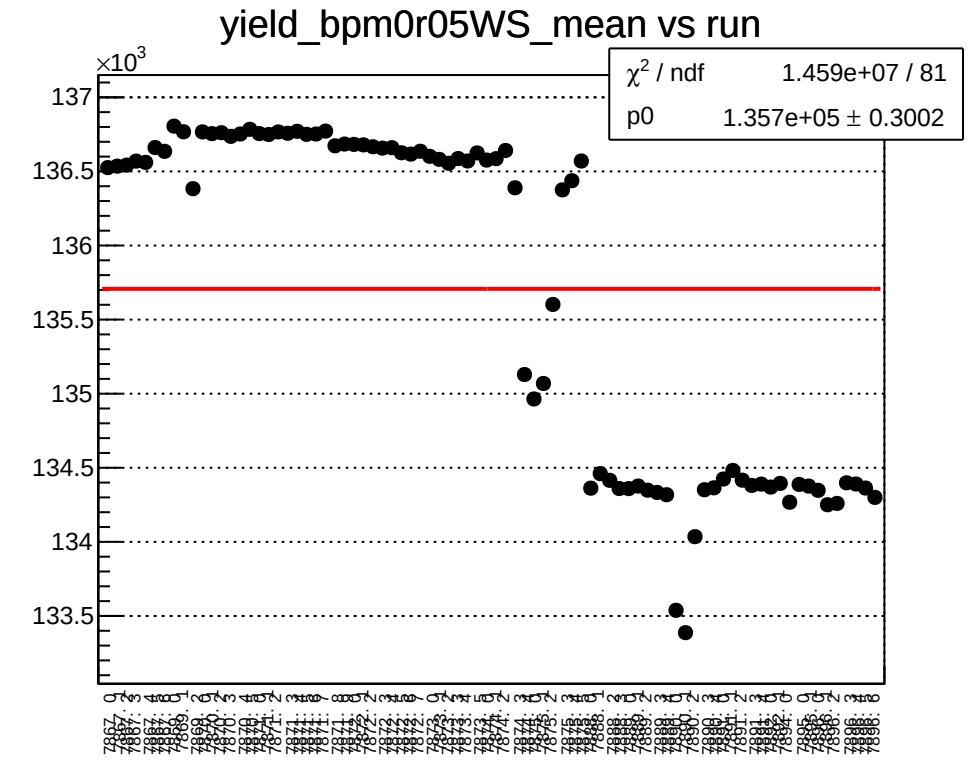

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

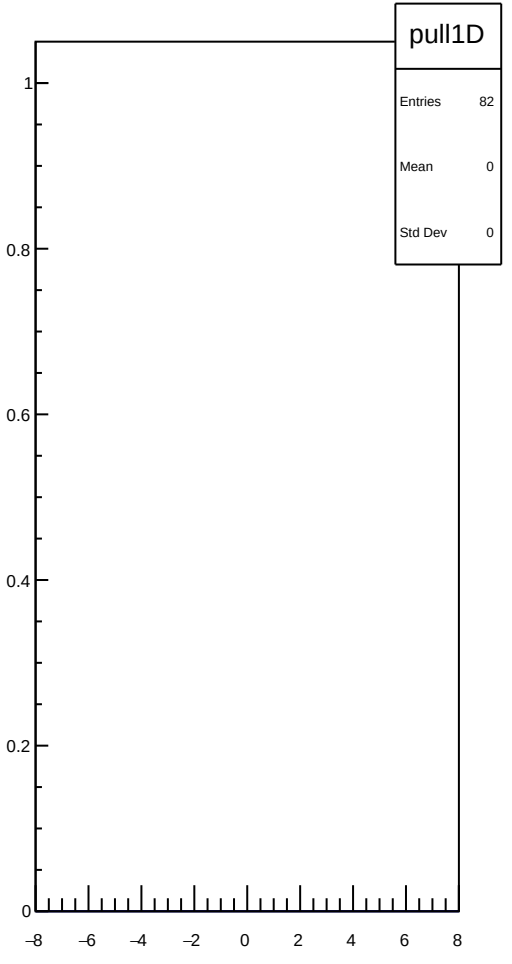

yield_bpm0l10WS_rms vs run
χ² / ndf 9.683e+04 / 81
p0 314.8 ± 0.254
1200
1000
800
600
400
200

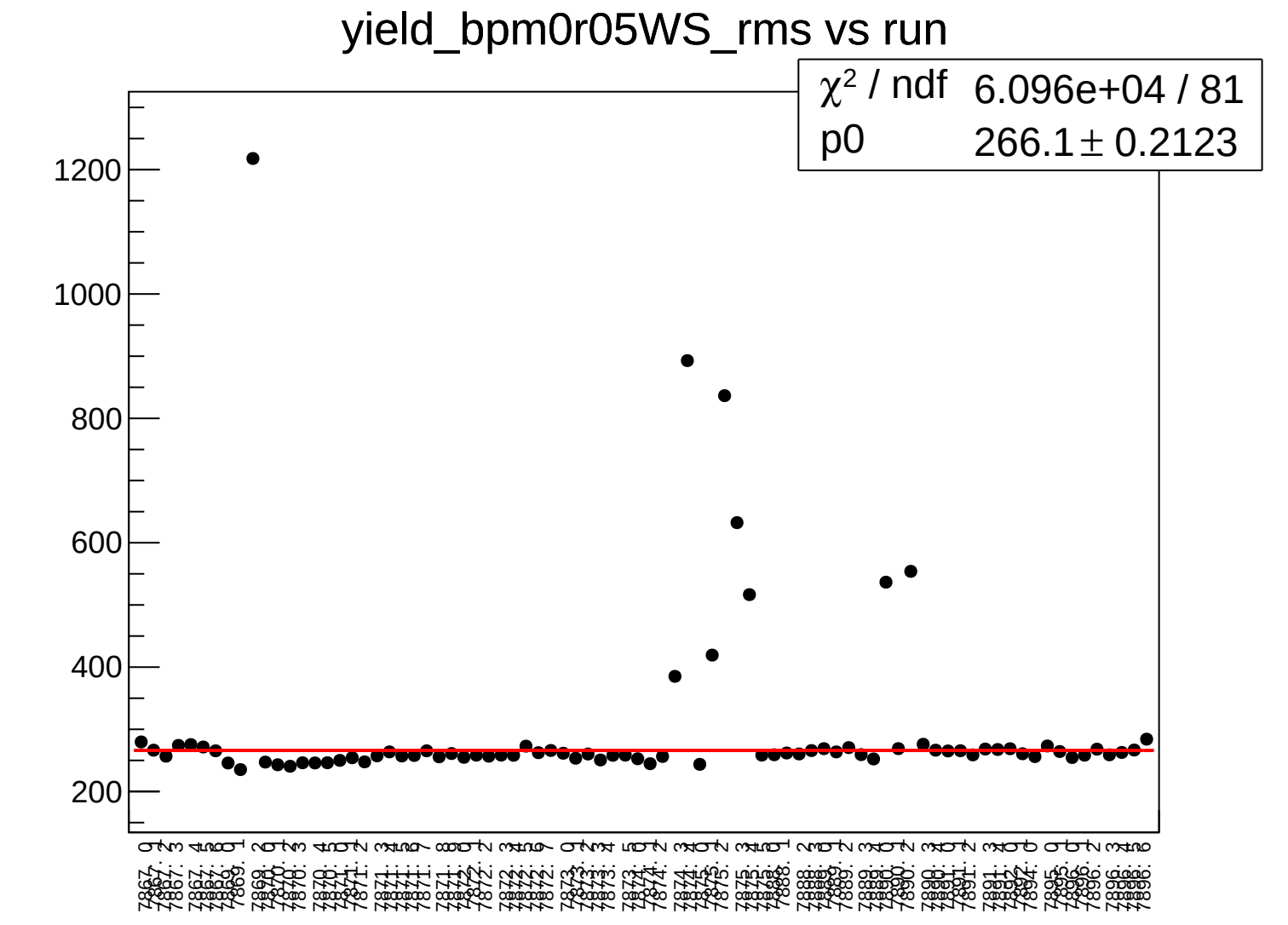

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.788e+08 / 81
p0 1.404e+05 ± 0.3659
144
142
140
138
136
134
132
130
128
pull
Entries 82
Mean 110.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

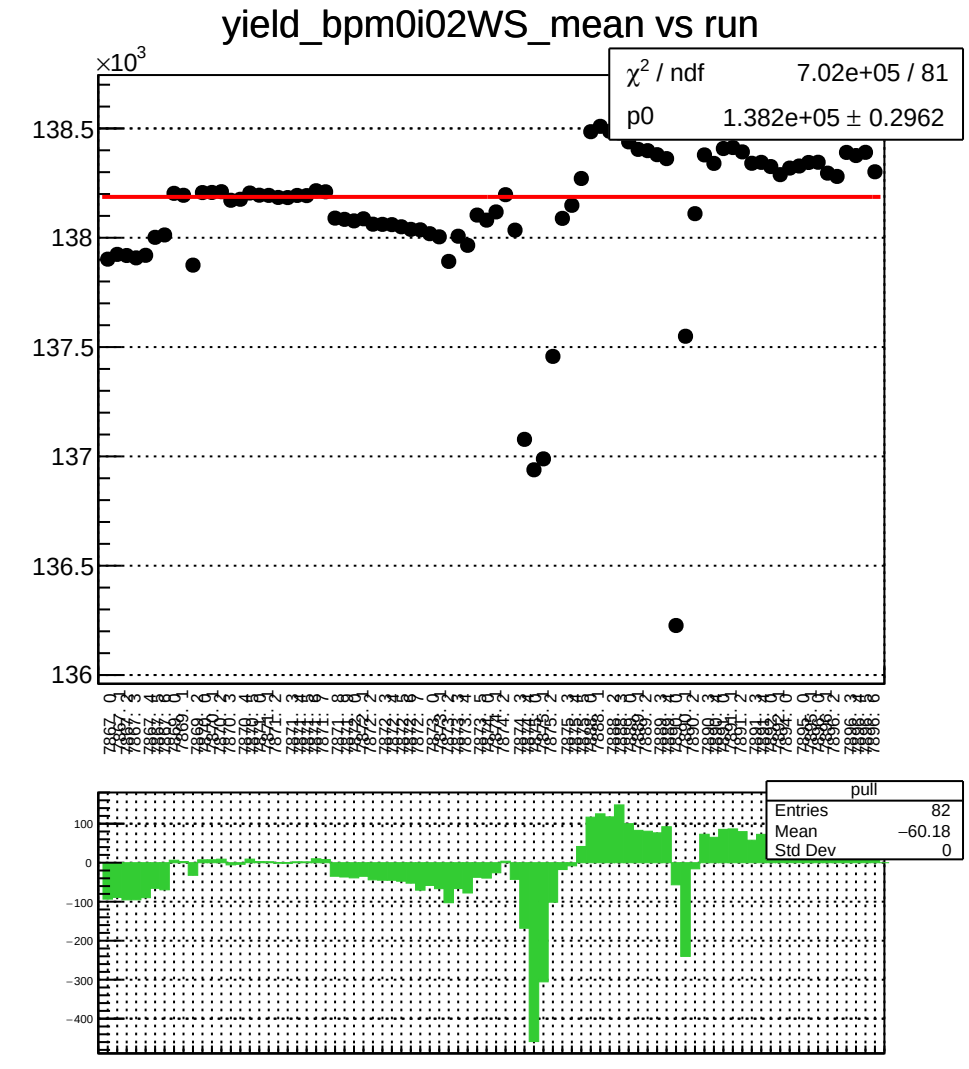

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

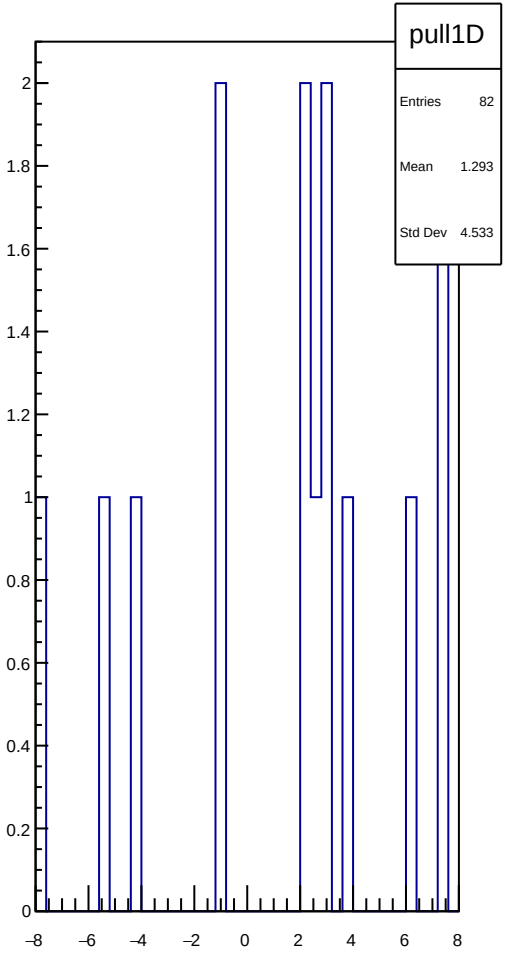

yield_bpm0r03WS_rms vs run
χ² / ndf 1.951e+05 / 81
p0 310.2 ± 0.2587
1200
1000
800
600
400
200

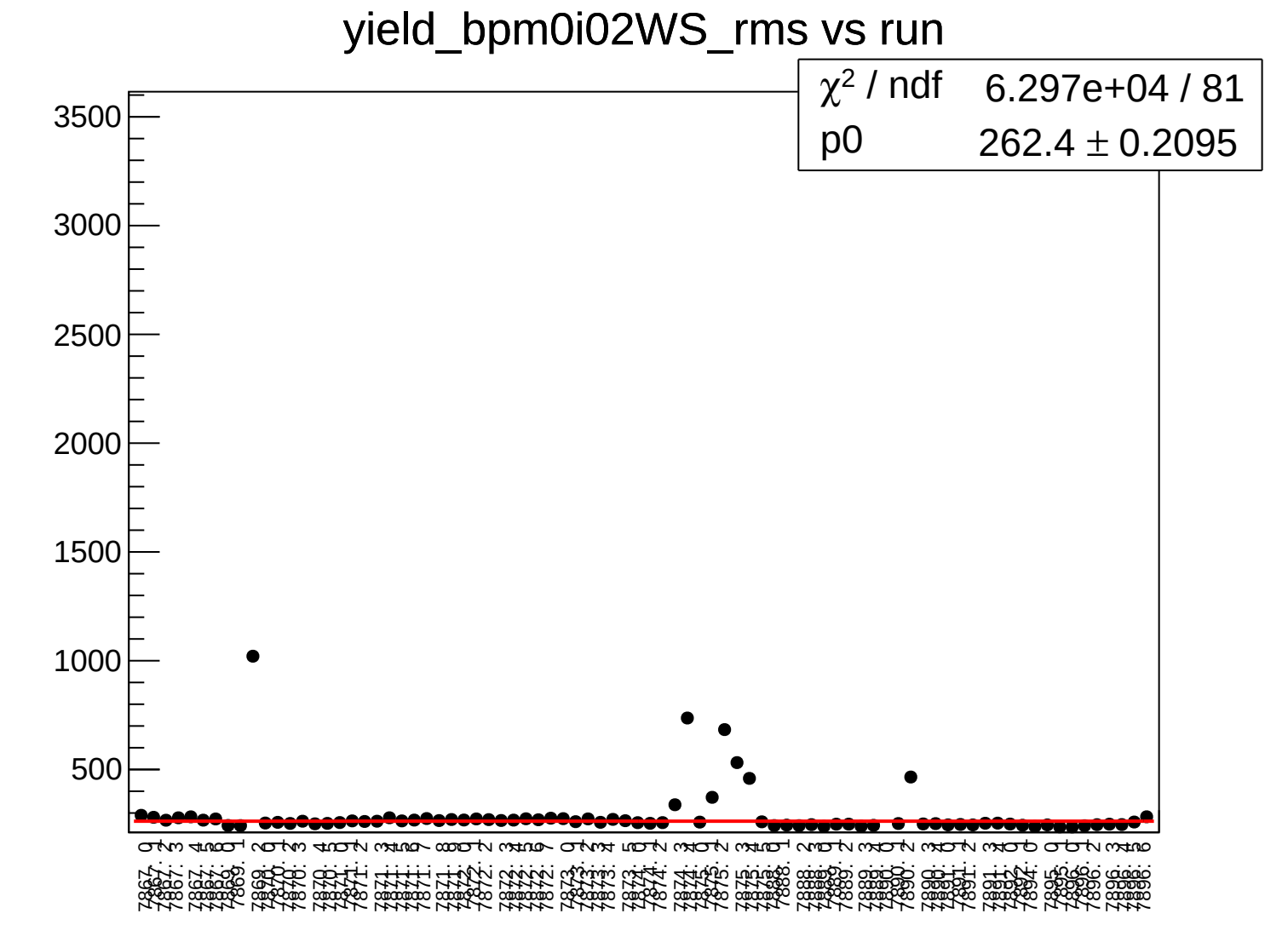

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.459e+07 / 81
p0 1.357e+05 ± 0.3002
137
136.5
136
135.5
135
134.5
134
133.5
pull
Entries 82
Mean 3741
Std Dev 0
600
400
200
0
−200
−400
−600
−800

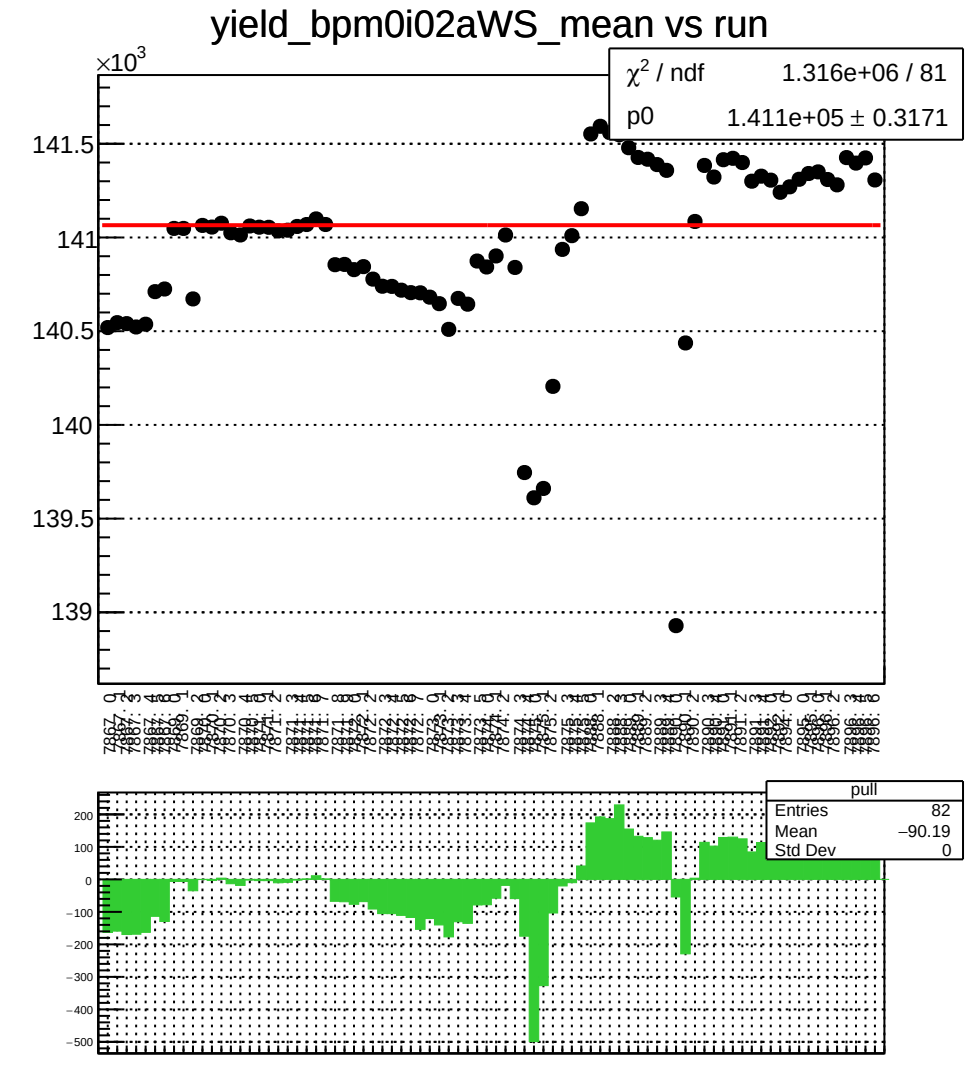

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

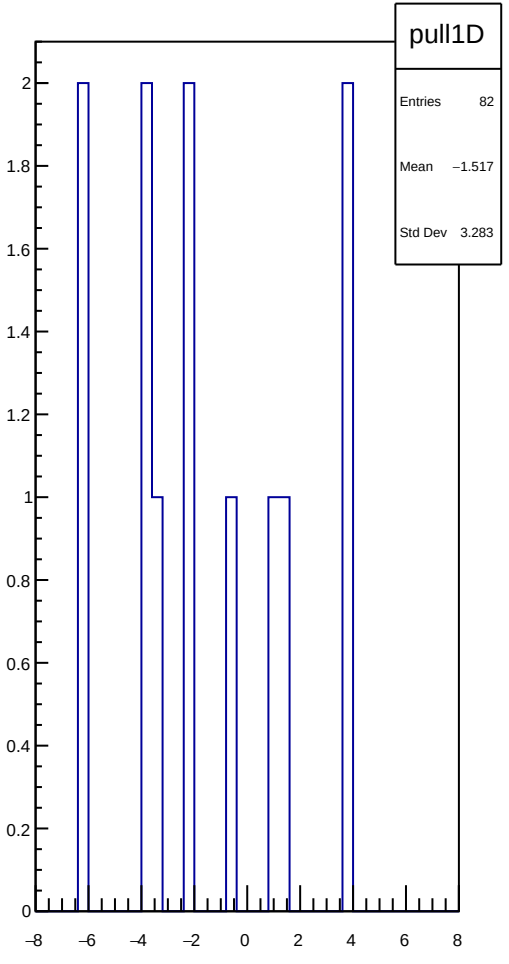

yield_bpm0r05WS_rms vs run
χ² / ndf 6.096e+04 / 81
p0 266.1 ± 0.2123
1200
1000
800
600
400
200

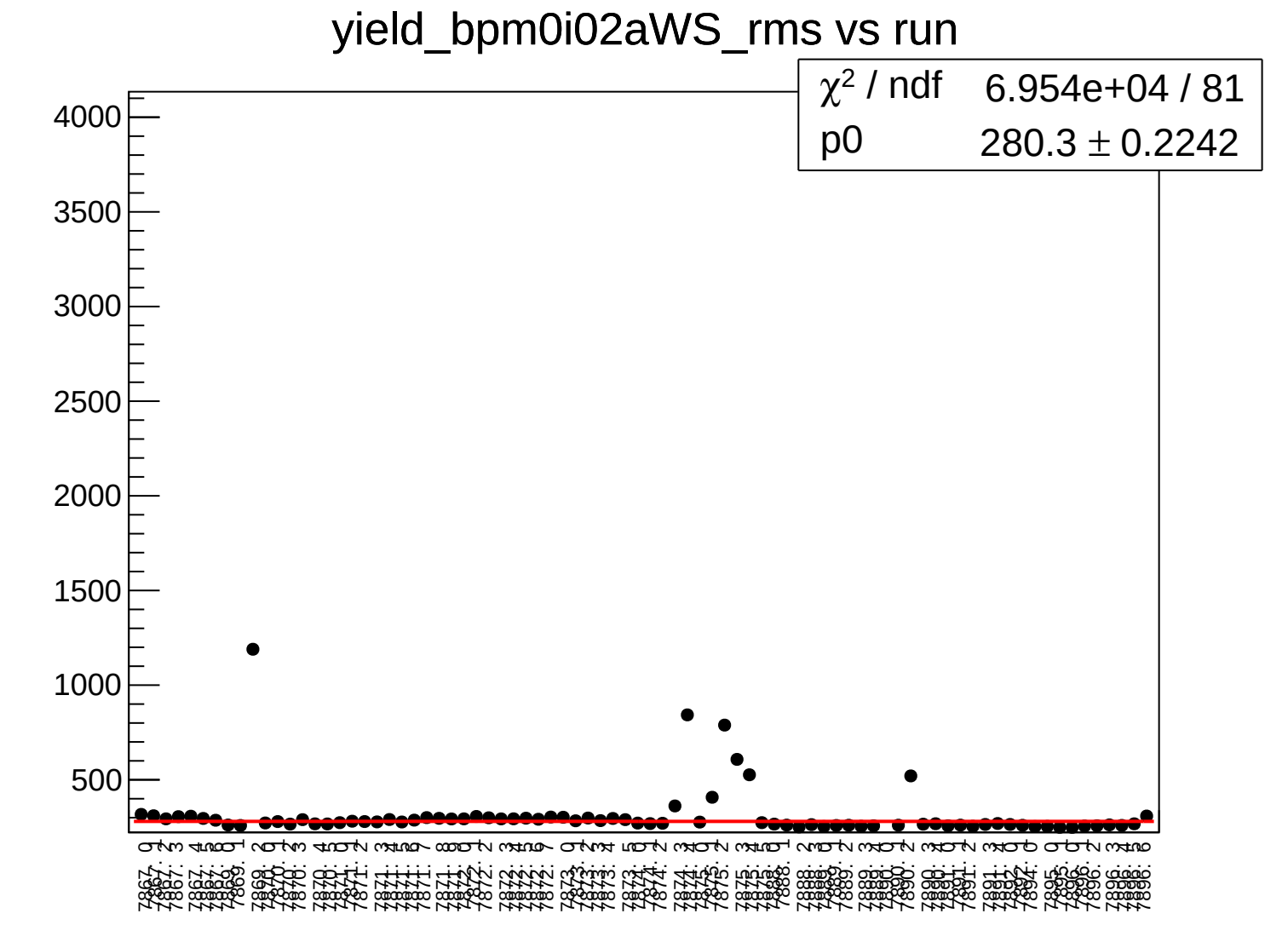

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 7.02e+05 / 81
p0 1.382e+05 ± 0.2962
138.5
138
137.5
137
136.5
136
pull
Entries 82
Mean −60.18
Std Dev 0
100
0
−100
−200
−300
−400

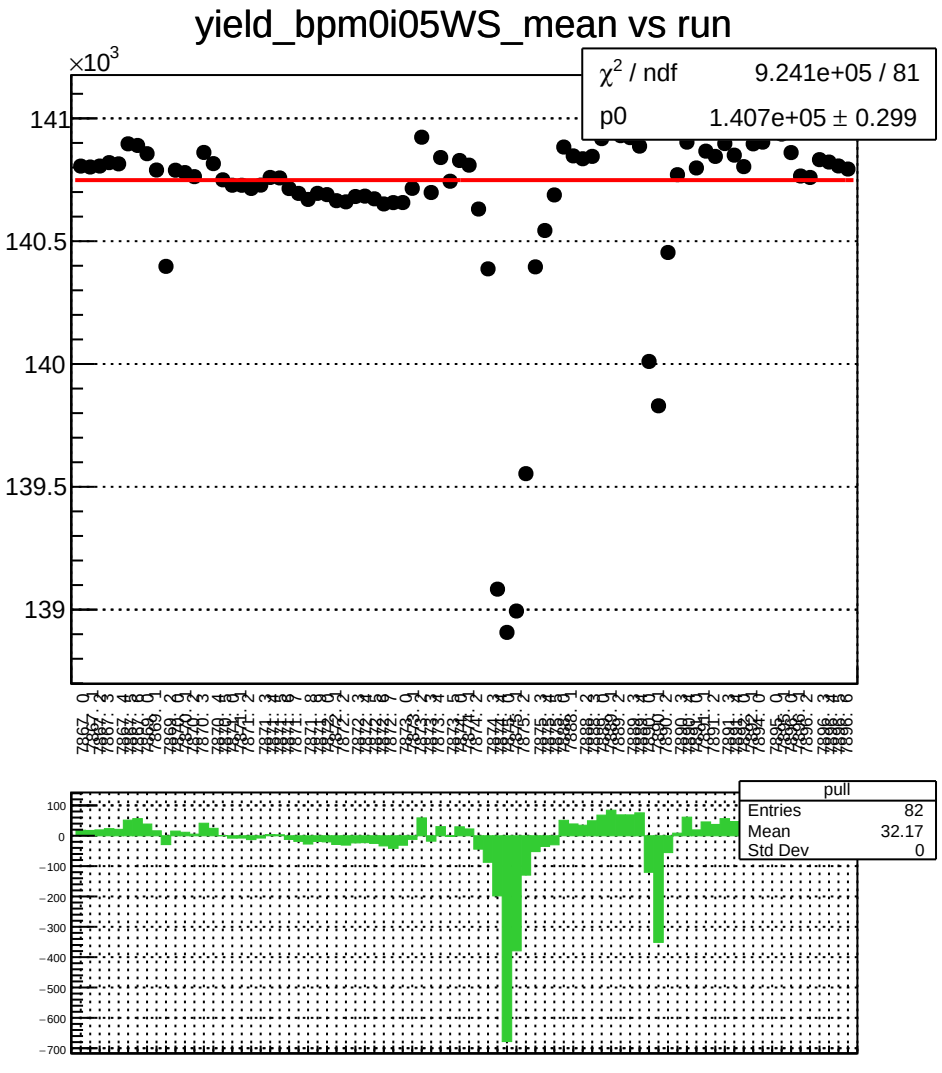

pull1D
Entries 82
Mean 1.293
Std Dev 4.533
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

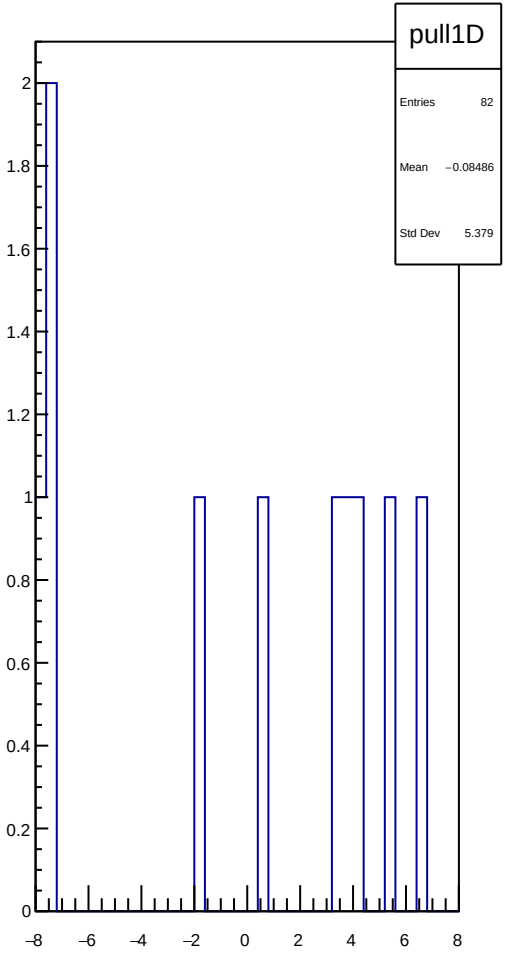

yield_bpm0i02WS_rms vs run
χ² / ndf 6.297e+04 / 81
p0 262.4 ± 0.2095
3500
3000
2500
2000
1500
1000
500

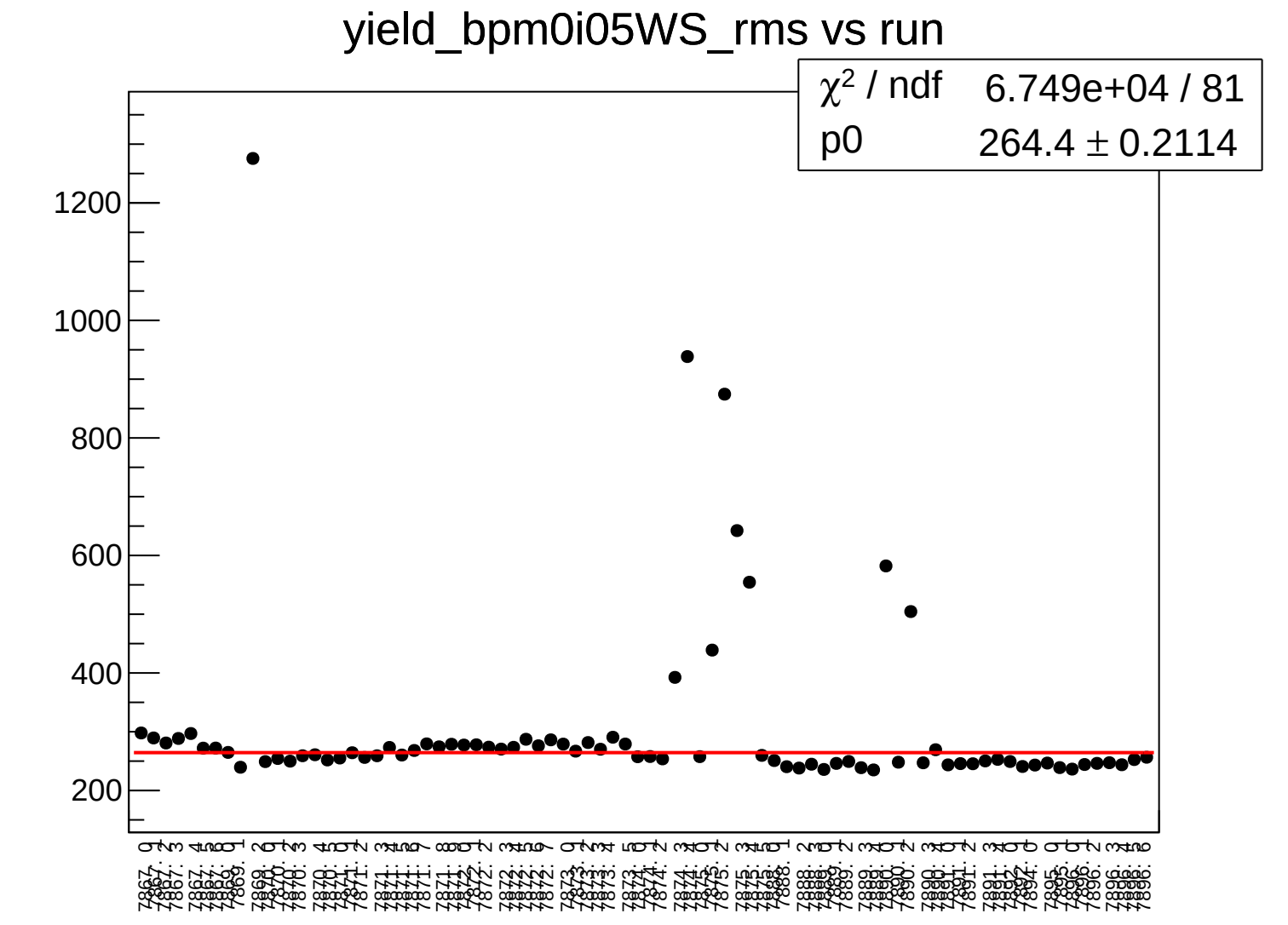

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.316e+06 / 81
p0 1.411e+05 ± 0.3171
141.5
141
140.5
140
139.5
139
pull
Entries 82
Mean −90.19
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

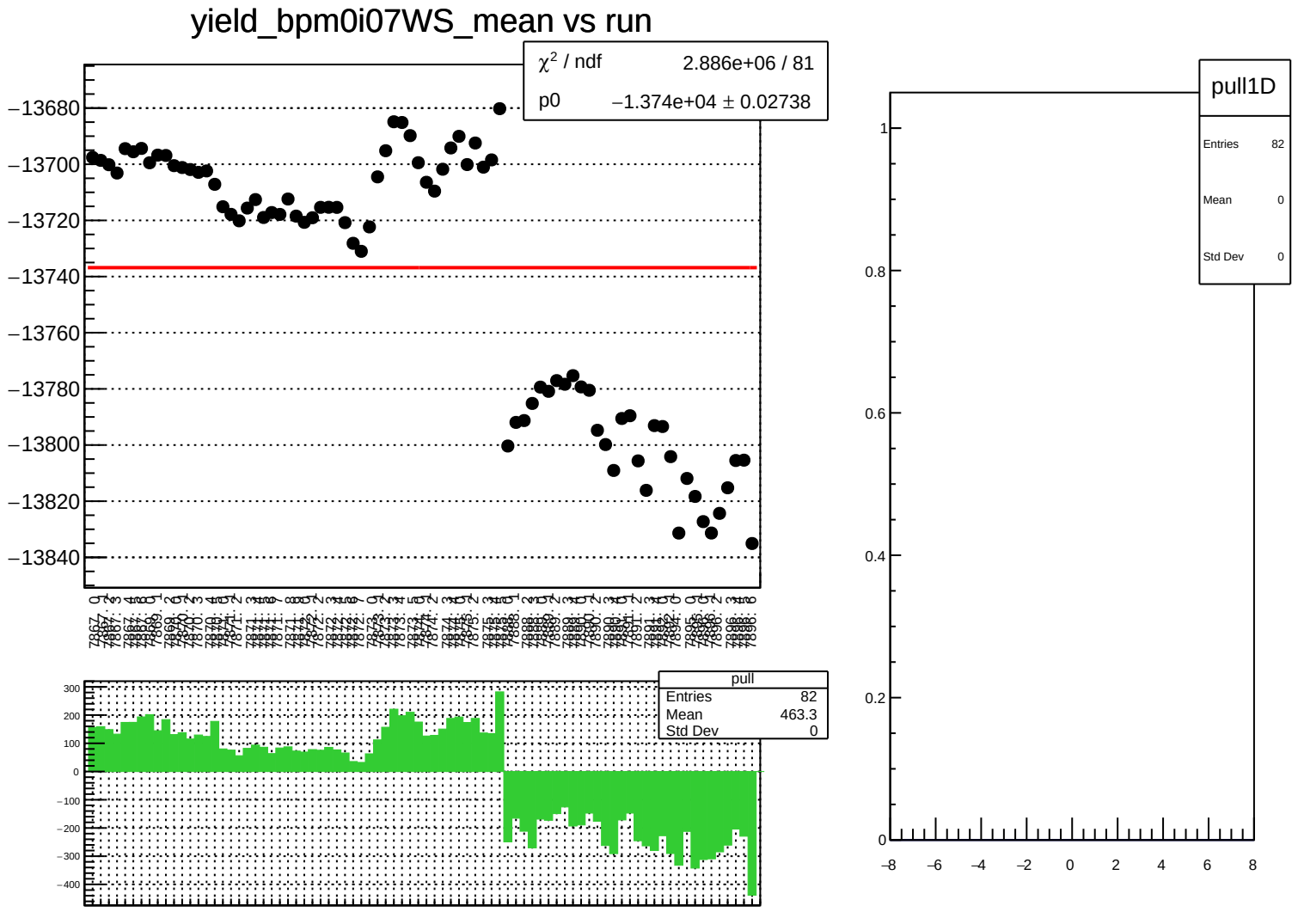

pull1D
Entries 82
Mean −1.517
Std Dev 3.283
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

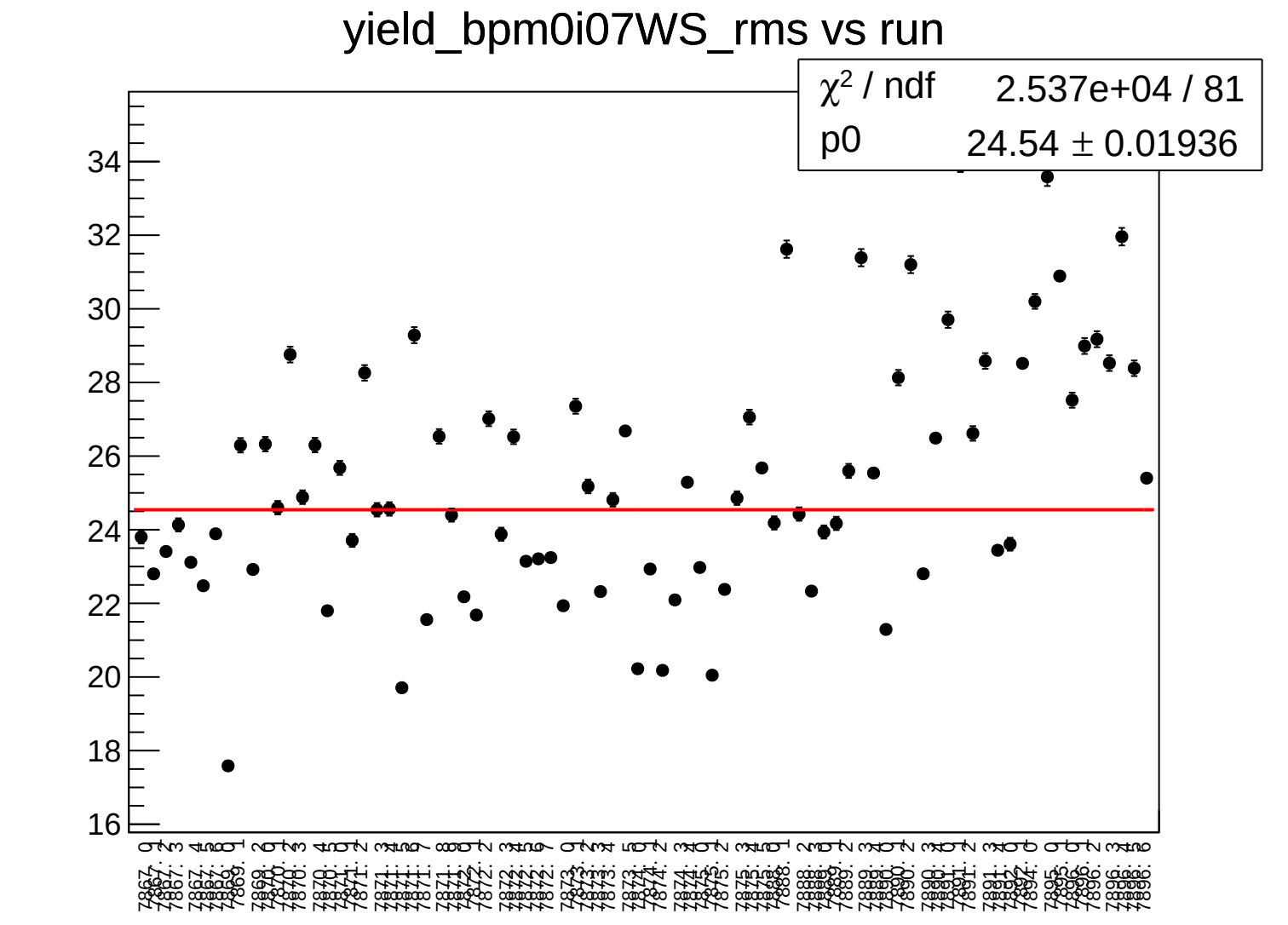

yield_bpm0i02aWS_rms vs run
χ² / ndf 6.954e+04 / 81
p0 280.3 ± 0.2242
4000
3500
3000
2500
2000
1500
1000
500

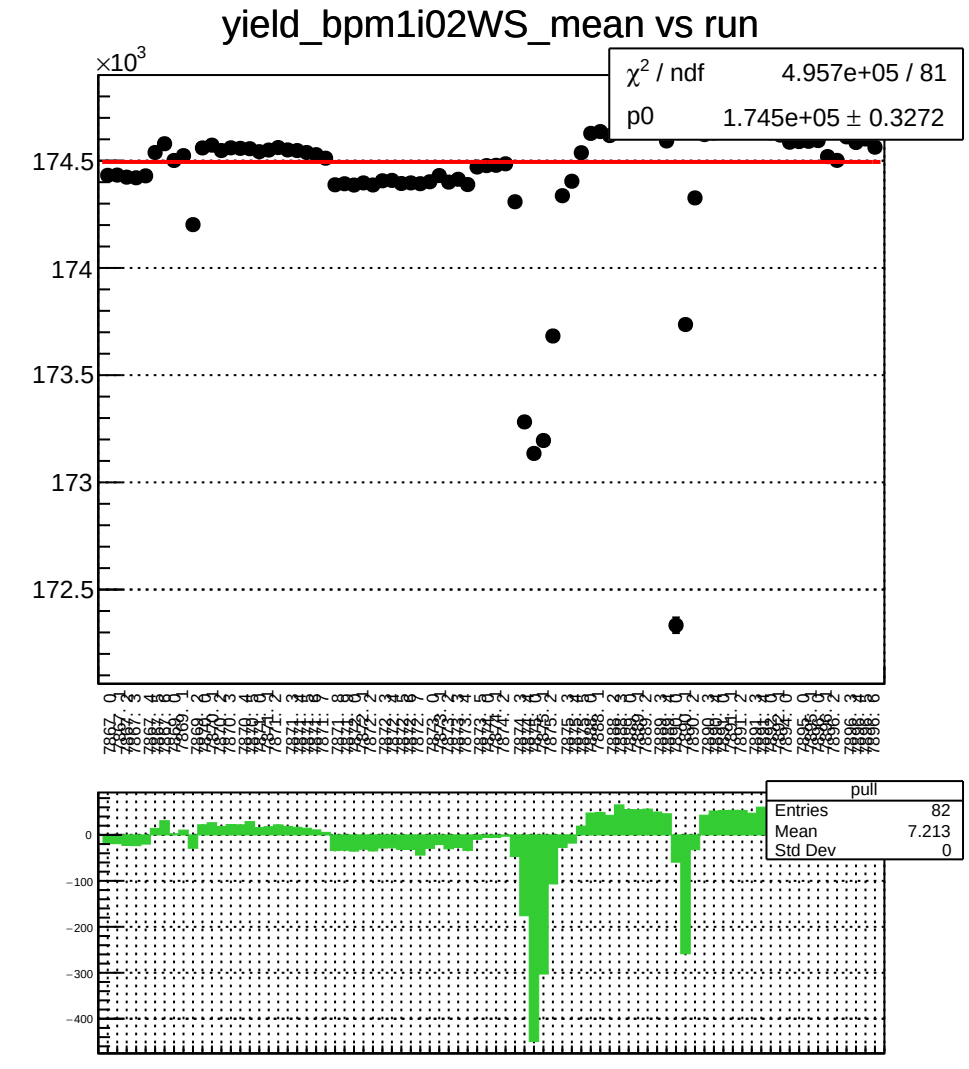

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 9.241e+05 / 81
p0 1.407e+05 ± 0.299
141
140.5
140
139.5
139
pull
Entries 82
Mean 32.17
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600
−700

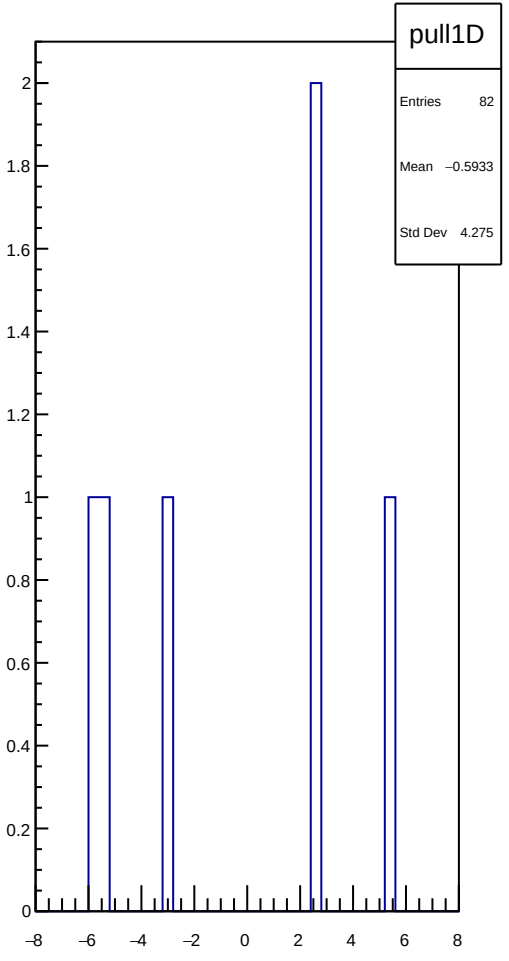

pull1D
Entries 82
Mean −0.08486
Std Dev 5.379
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

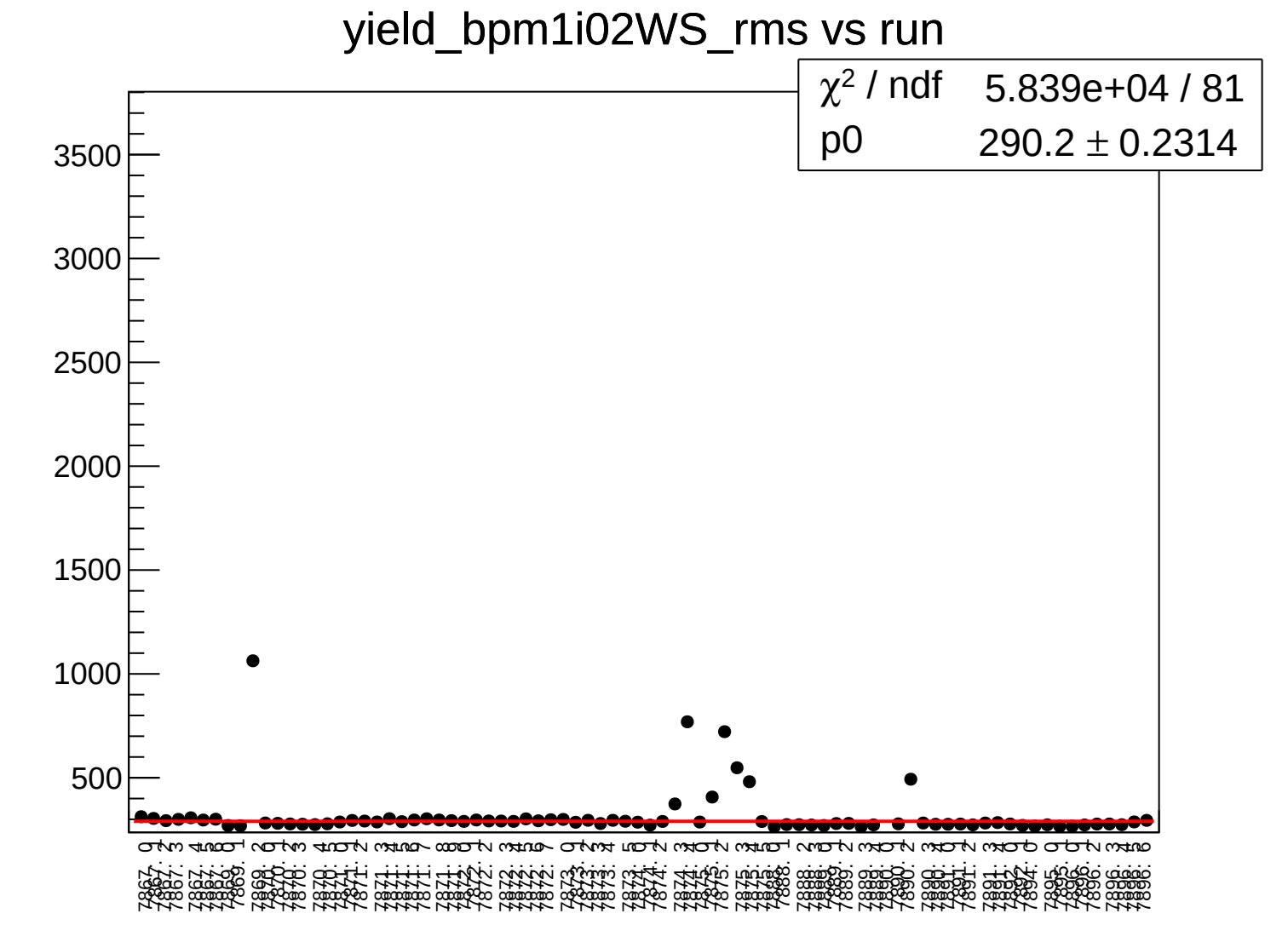

yield_bpm0i05WS_rms vs run
χ² / ndf 6.749e+04 / 81
p0 264.4 ± 0.2114
1200
1000
800
600
400
200

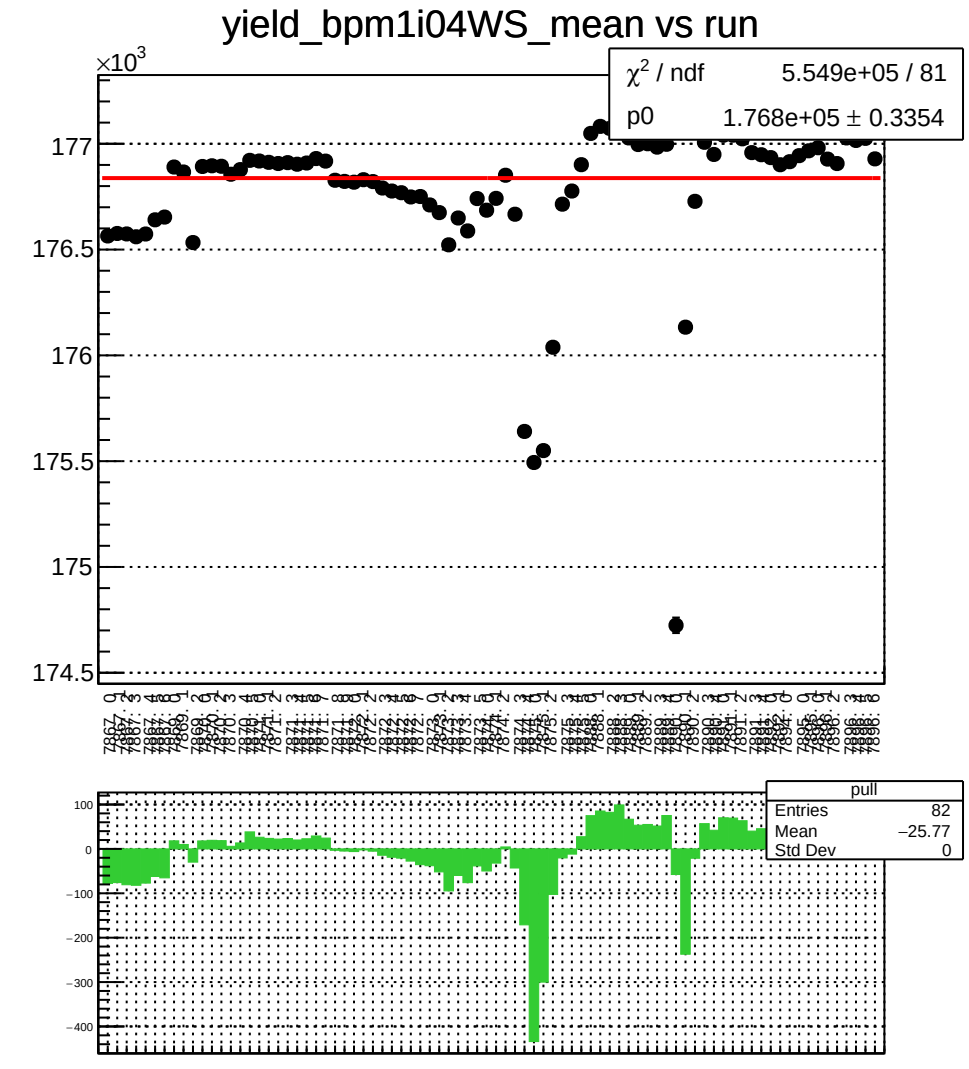

yield_bpm0i07WS_mean vs run
χ² / ndf 2.886e+06 / 81
p0 −1.374e+04 ± 0.02738
−13680
−13700
−13720
−13740
−13760
−13780
−13800
−13820
−13840
pull
Entries 82
Mean 463.3
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

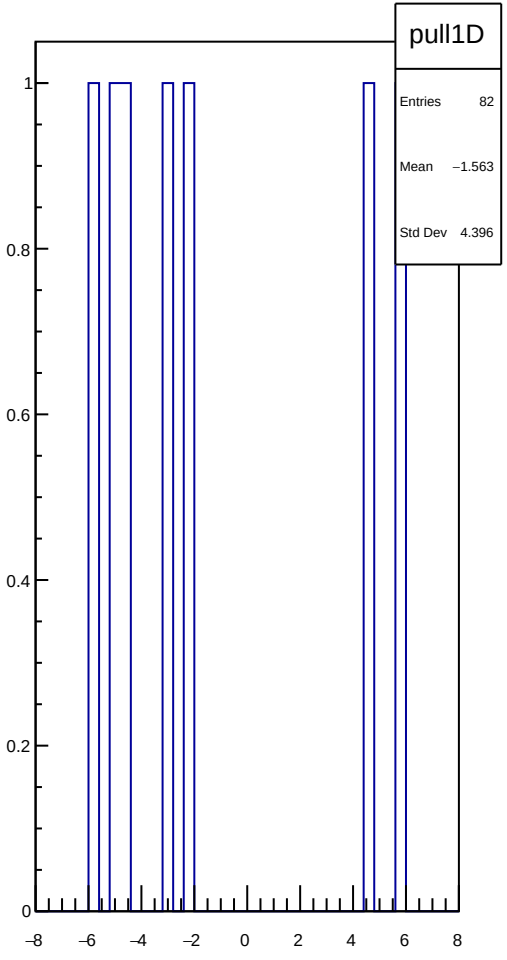

yield_bpm0i07WS_rms vs run
χ² / ndf 2.537e+04 / 81
p0 24.54 ± 0.01936
34
32
30
28
26
24
22
20
18
16

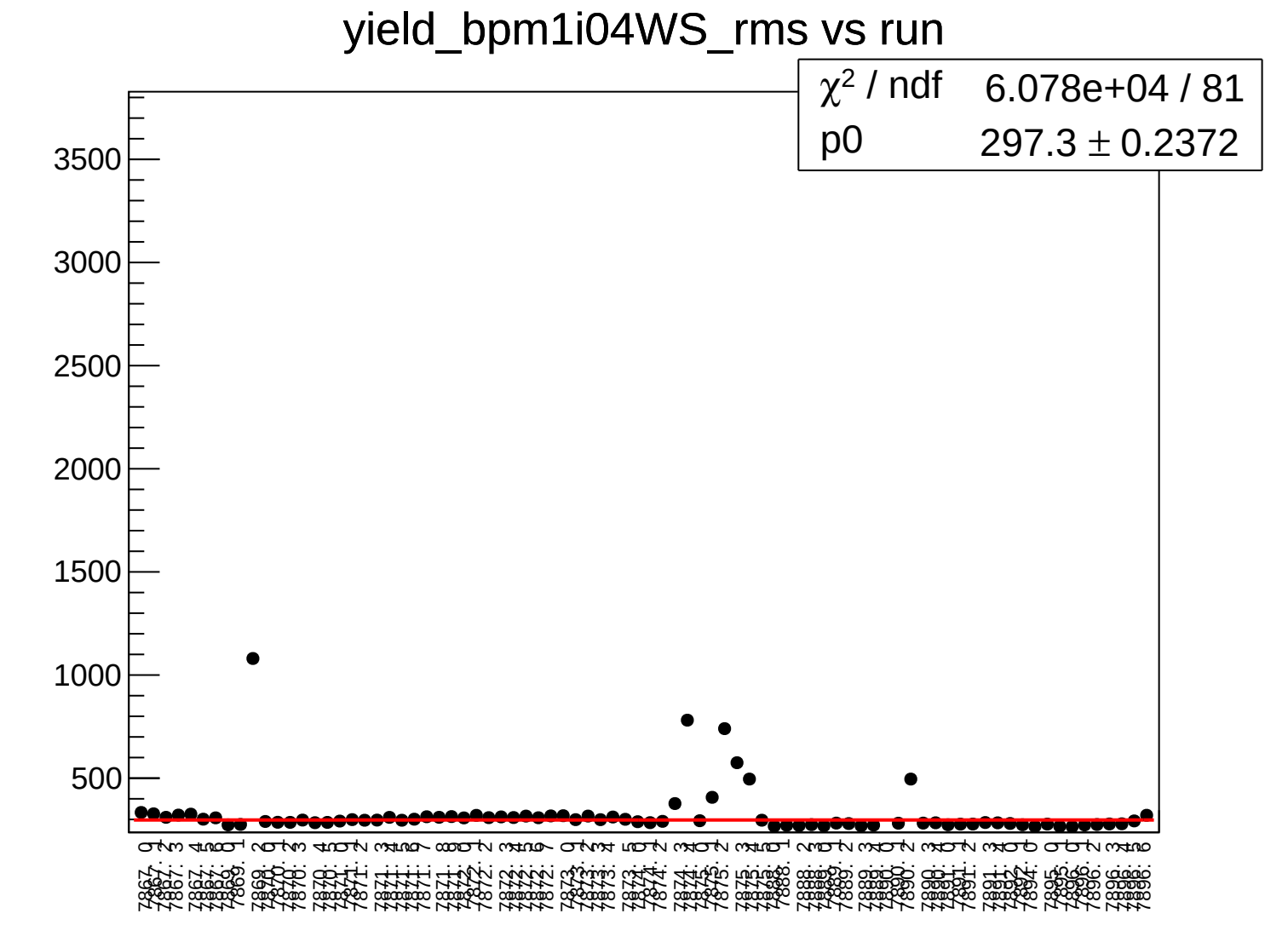

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 4.957e+05 / 81
p0 1.745e+05 ± 0.3272
174.5
174
173.5
173
172.5
pull
Entries 82
Mean 7.213
Std Dev 0
0
−100
−200
−300
−400

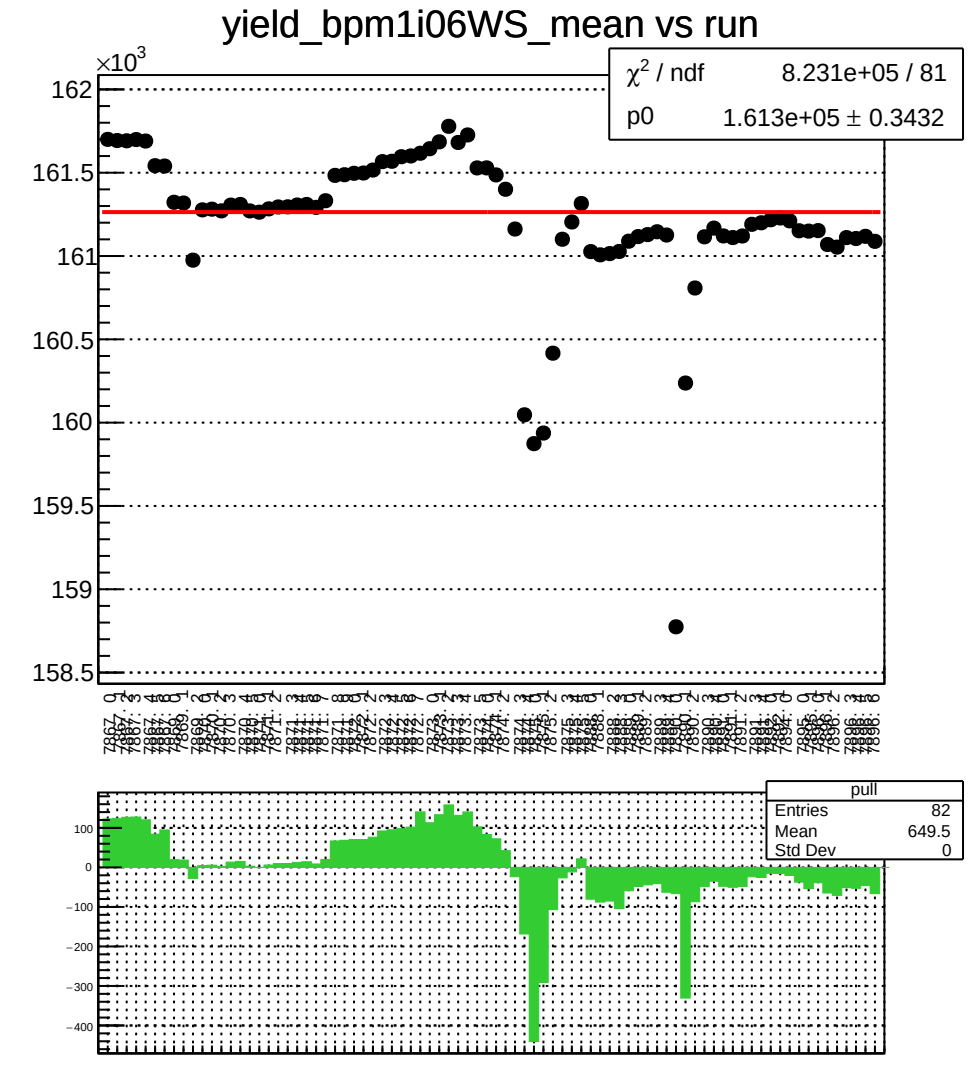

pull1D
Entries 82
Mean −0.5933
Std Dev 4.275
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

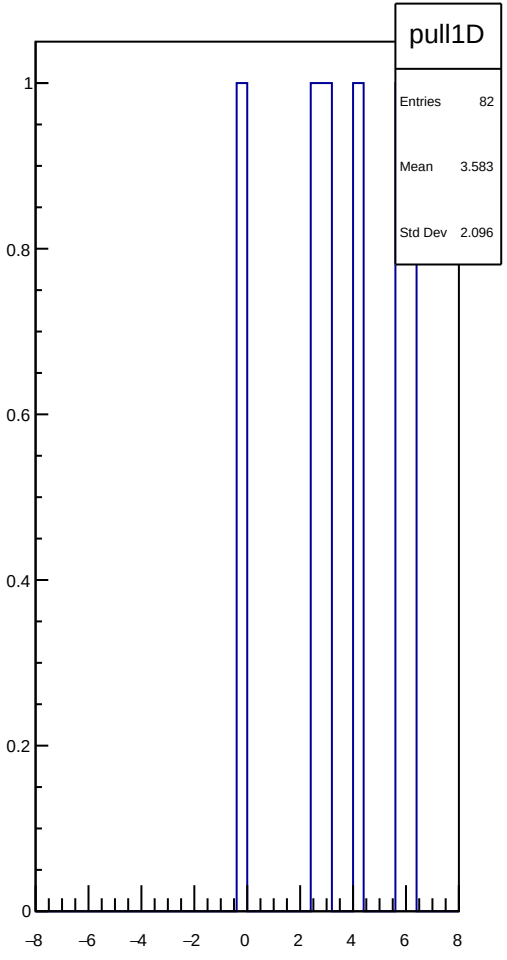

yield_bpm1i02WS_rms vs run
χ² / ndf 5.839e+04 / 81
p0 290.2 ± 0.2314
3500
3000
2500
2000
1500
1000
500

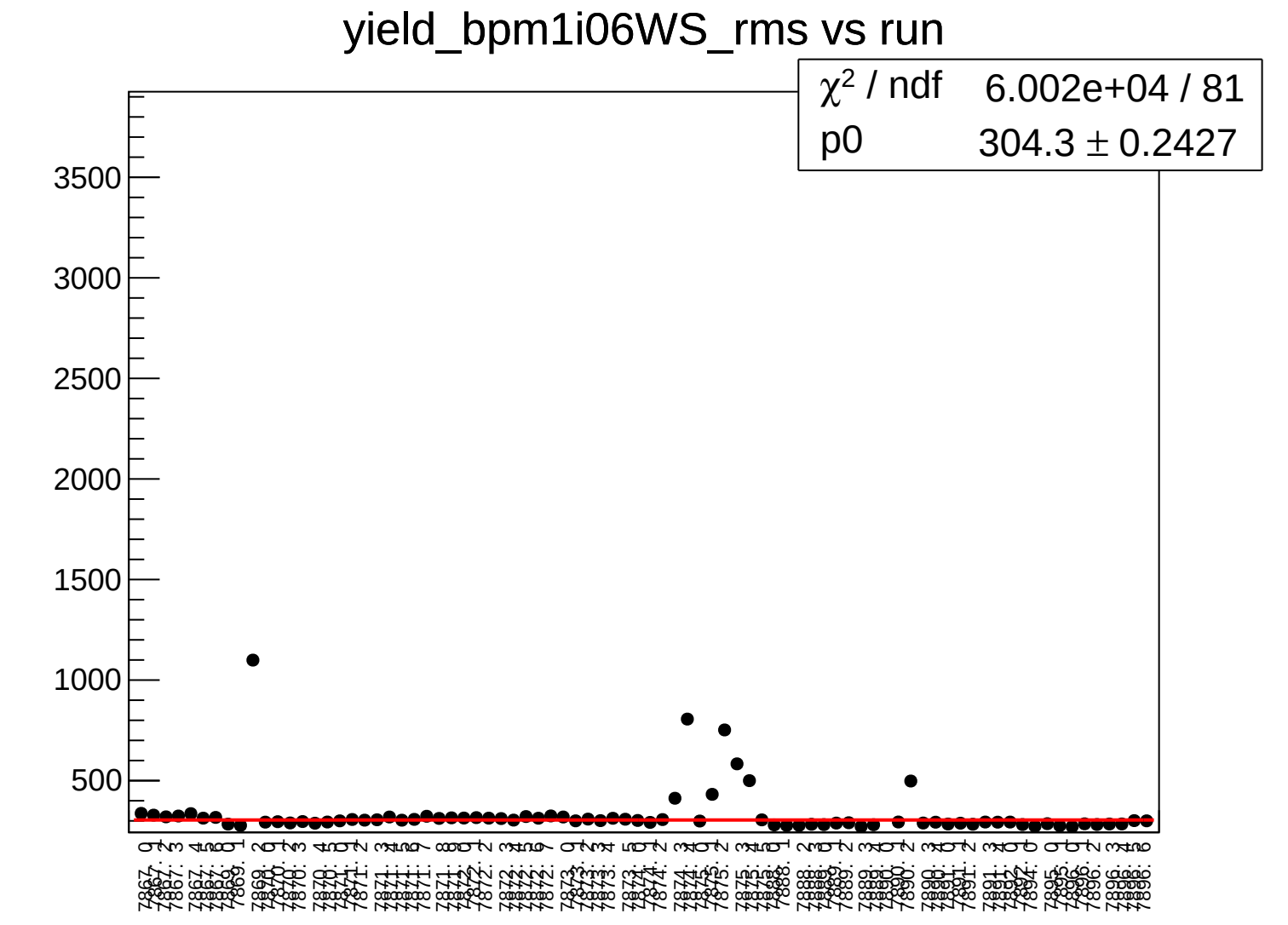

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.549e+05 / 81
p0 1.768e+05 ± 0.3354
177
176.5
176
175.5
175
174.5
pull
Entries 82
Mean −25.77
Std Dev 0
100
0
−100
−200
−300
−400

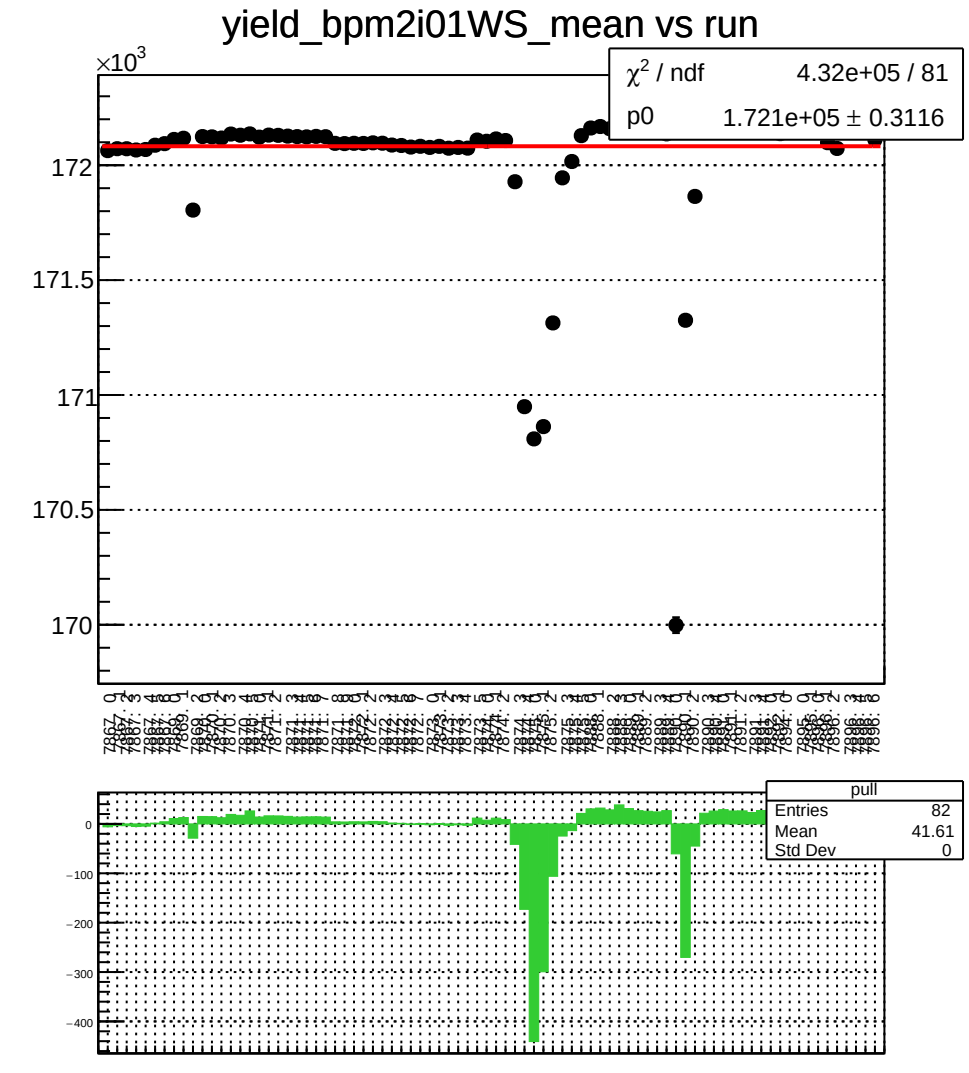

pull1D
Entries 82
Mean −1.563
Std Dev 4.396
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

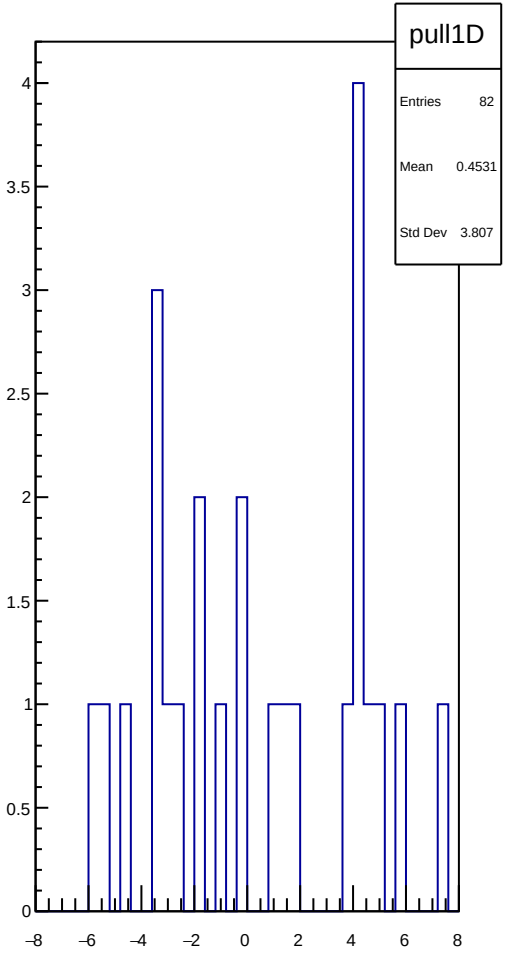

yield_bpm1i04WS_rms vs run
χ² / ndf 6.078e+04 / 81
p0 297.3 ± 0.2372
3500
3000
2500
2000
1500
1000
500

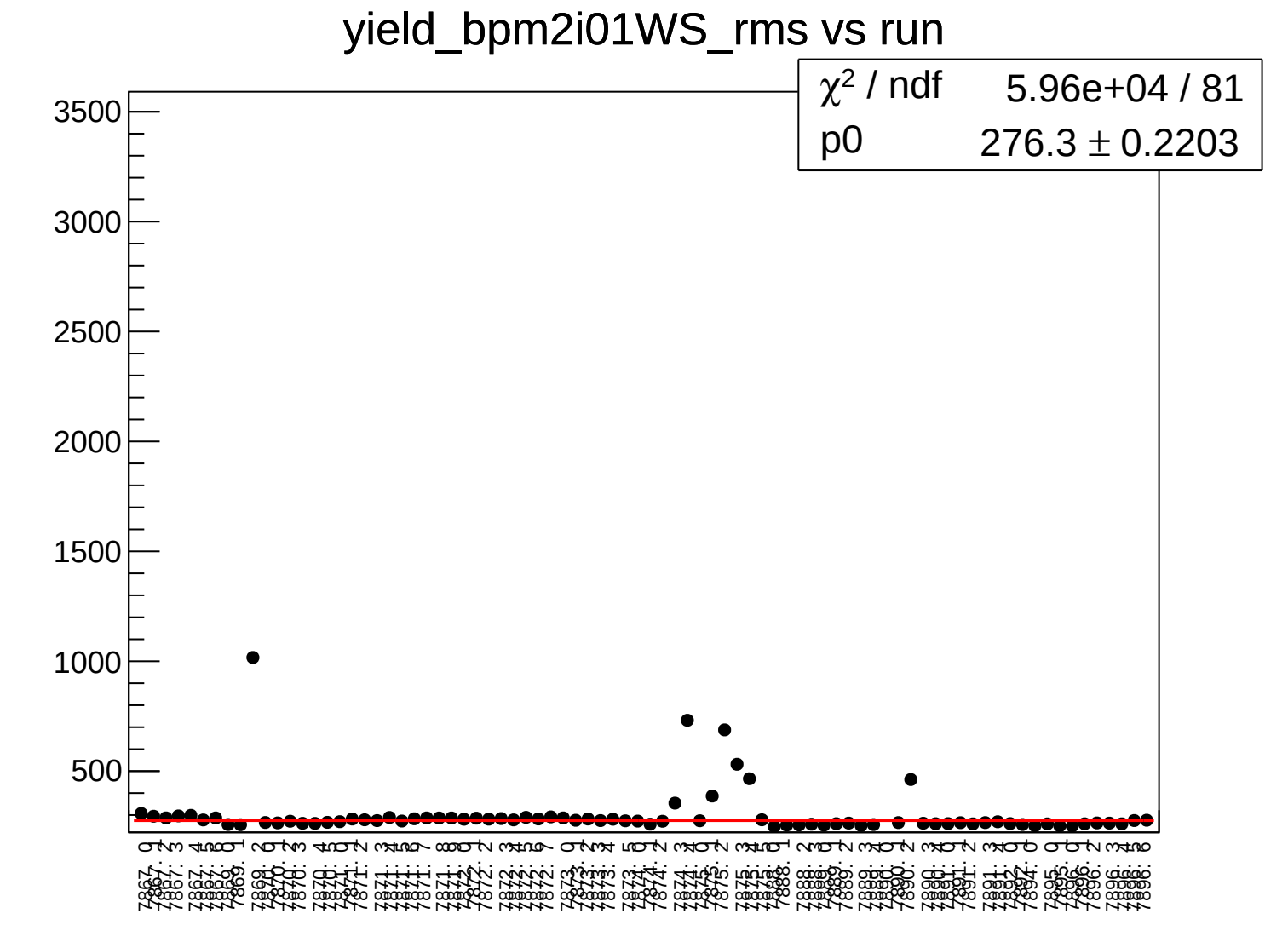

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 8.231e+05 / 81
p0 1.613e+05 ± 0.3432
162
161.5
161
160.5
160
159.5
159
158.5
pull
Entries 82
Mean 649.5
Std Dev 0
100
0
−100
−200
−300
−400

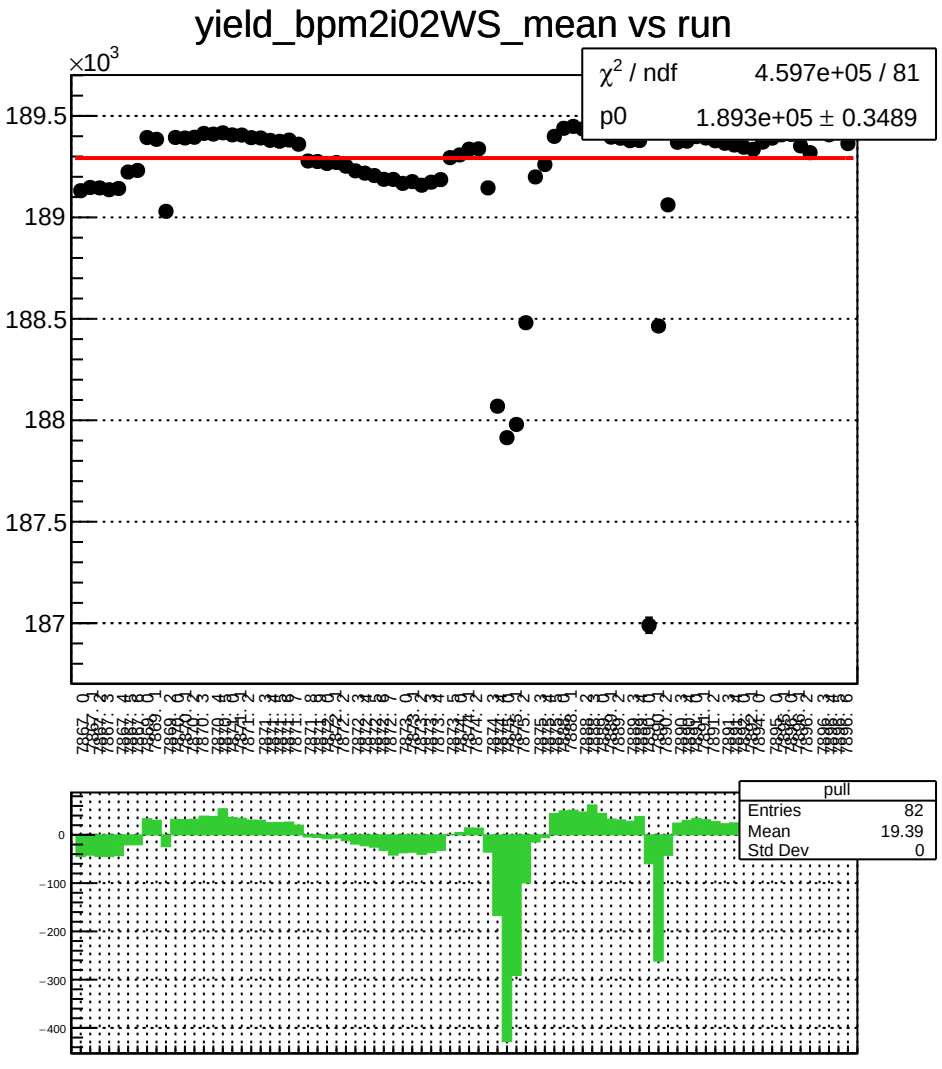

pull1D
Entries 82
Mean 3.583
Std Dev 2.096
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

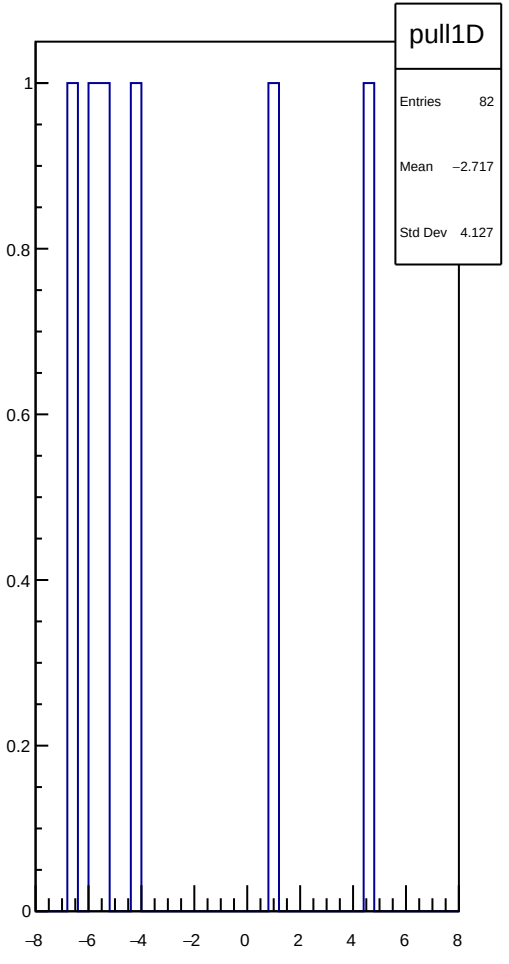

yield_bpm1i06WS_rms vs run
χ² / ndf 6.002e+04 / 81
p0 304.3 ± 0.2427
3500
3000
2500
2000
1500
1000
500

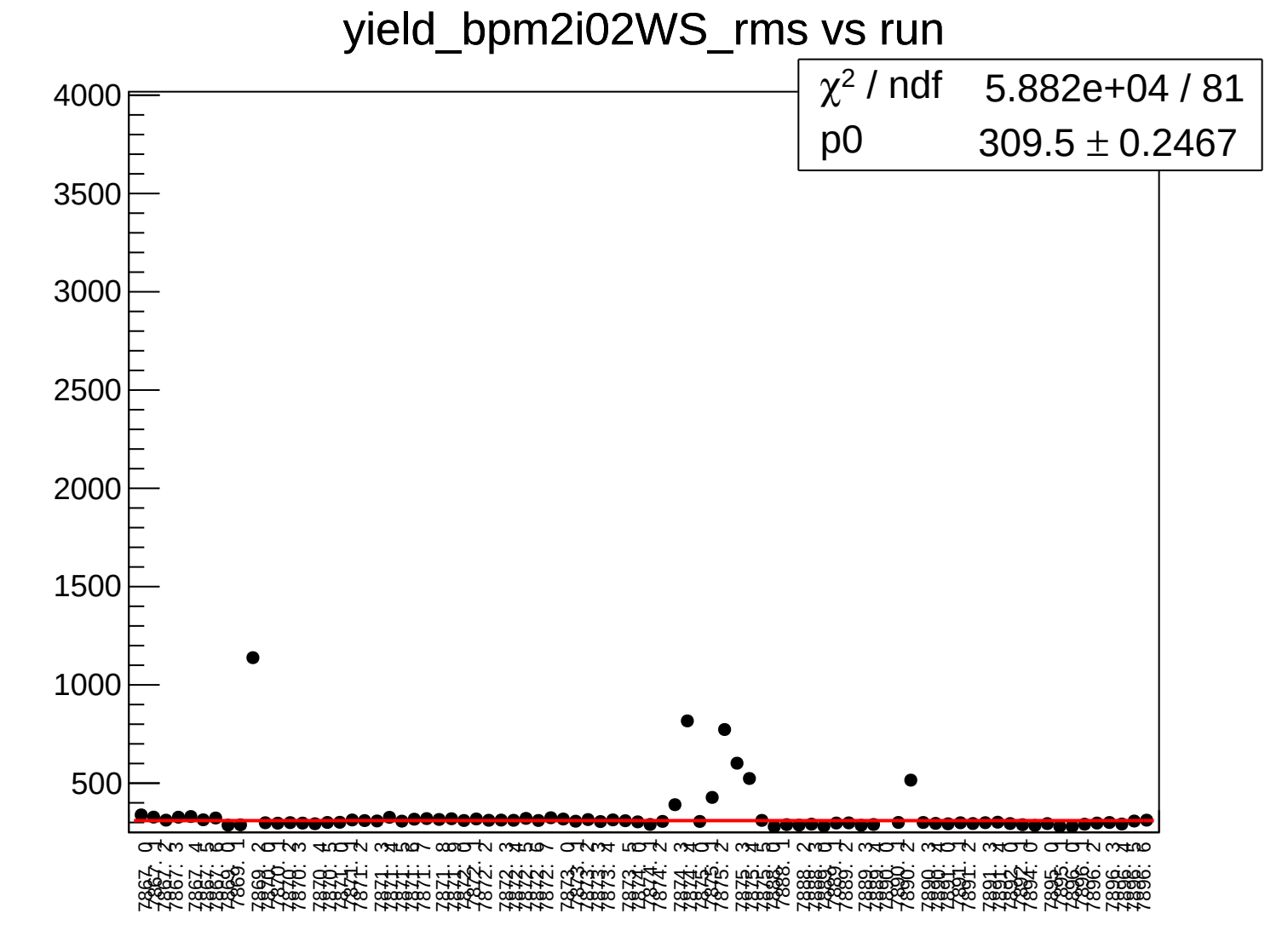

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.32e+05 / 81
p0 1.721e+05 ± 0.3116
172
171.5
171
170.5
170
pull
Entries 82
Mean 41.61
Std Dev 0
0
−100
−200
−300
−400

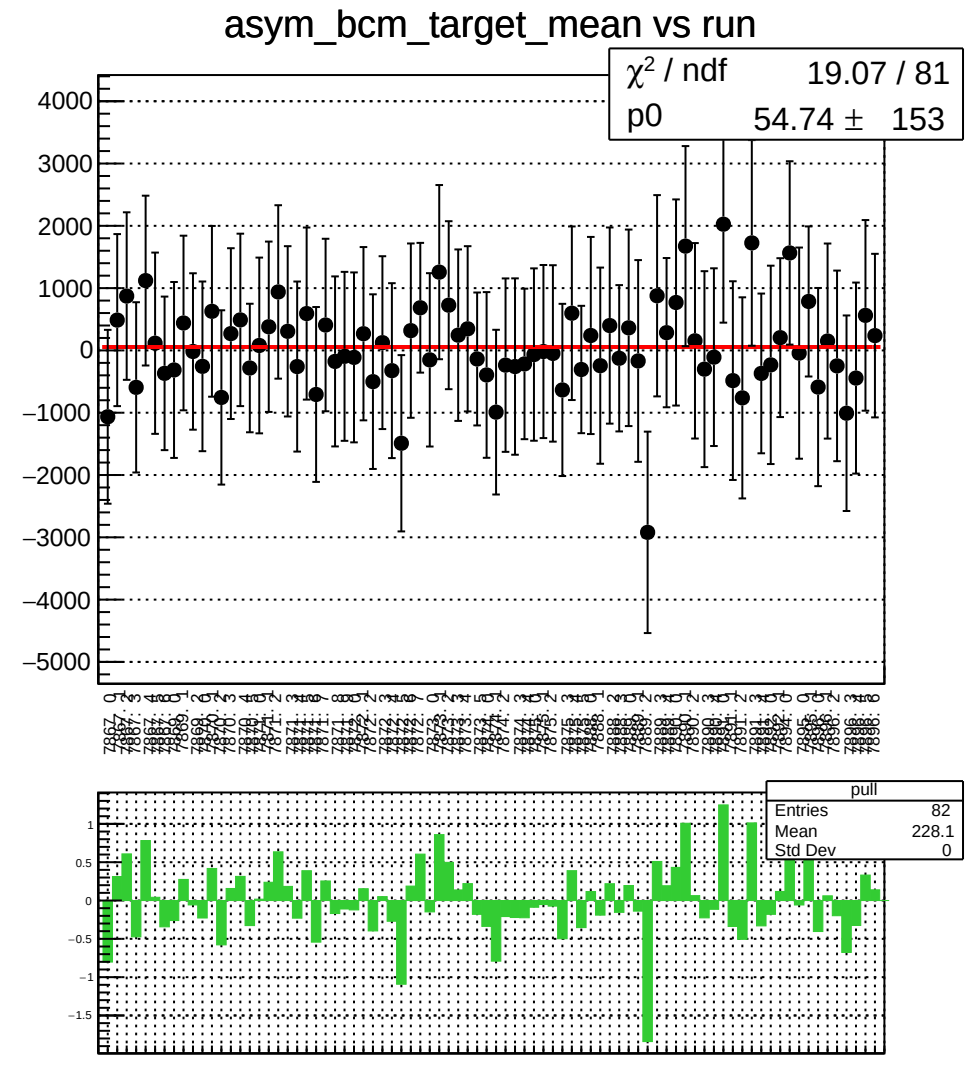

pull1D
Entries 82
Mean 0.4531
Std Dev 3.807
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

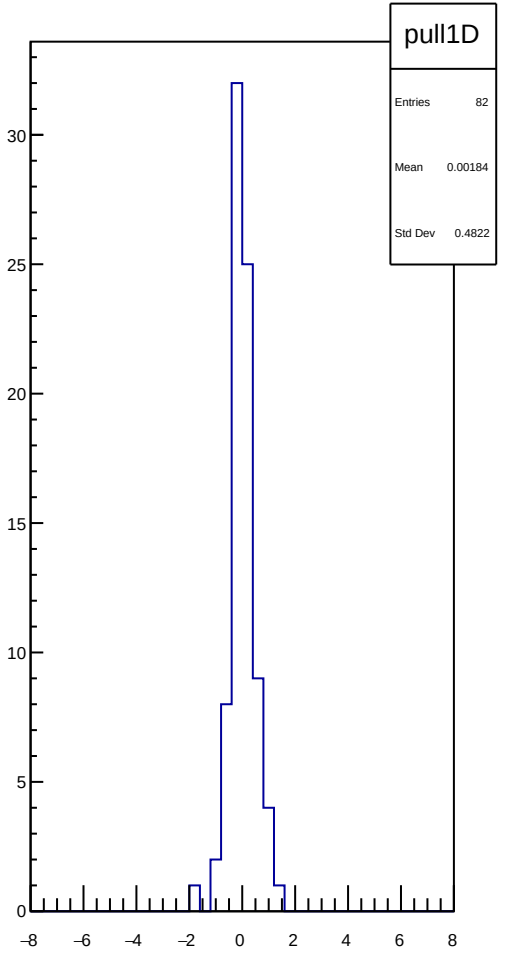

yield_bpm2i01WS_rms vs run
χ² / ndf 5.96e+04 / 81
p0 276.3 ± 0.2203
3500
3000
2500
2000
1500
1000
500

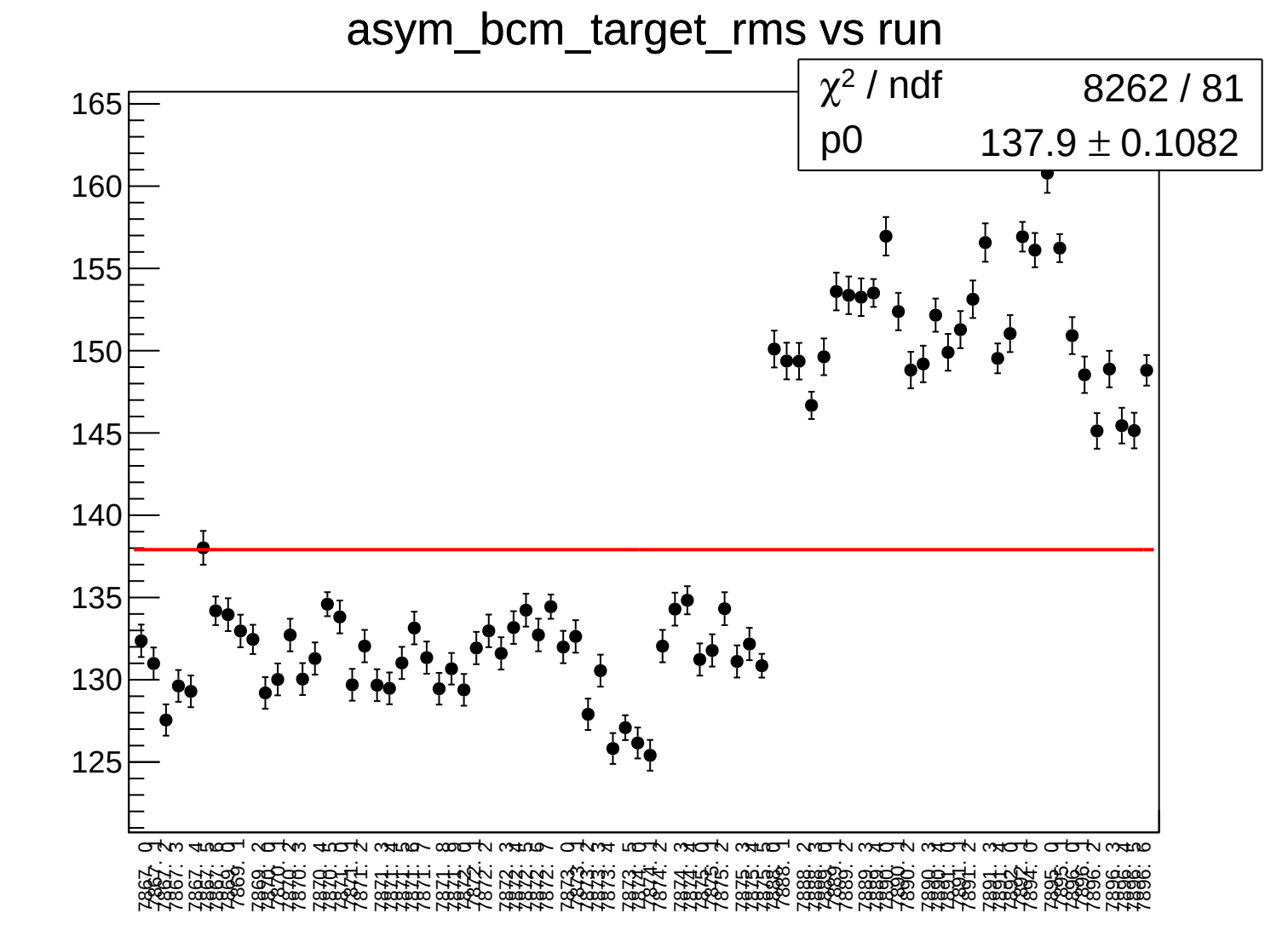

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 4.597e+05 / 81
p0 1.893e+05 ± 0.3489
189.5
189
188.5
188
187.5
187
pull
Entries 82
Mean 19.39
Std Dev 0
0
−100
−200
−300
−400

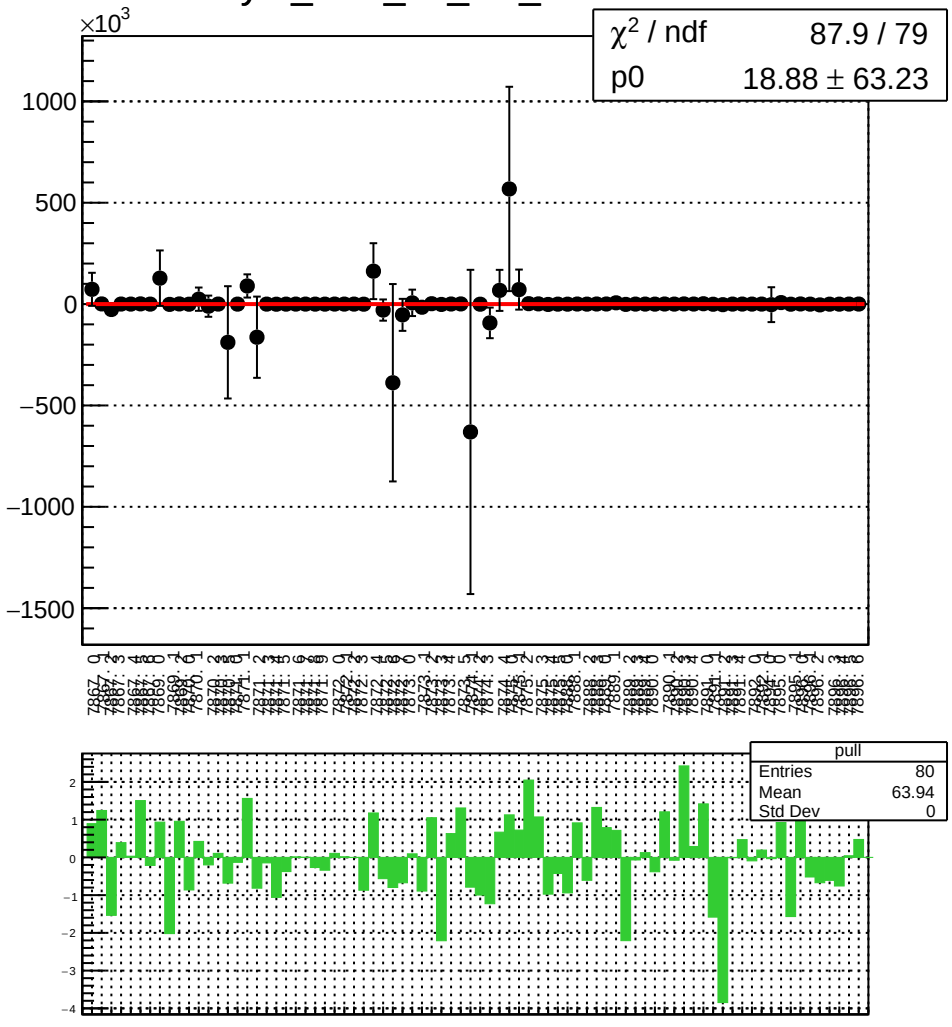

pull1D
Entries 82
Mean −2.717
Std Dev 4.127
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

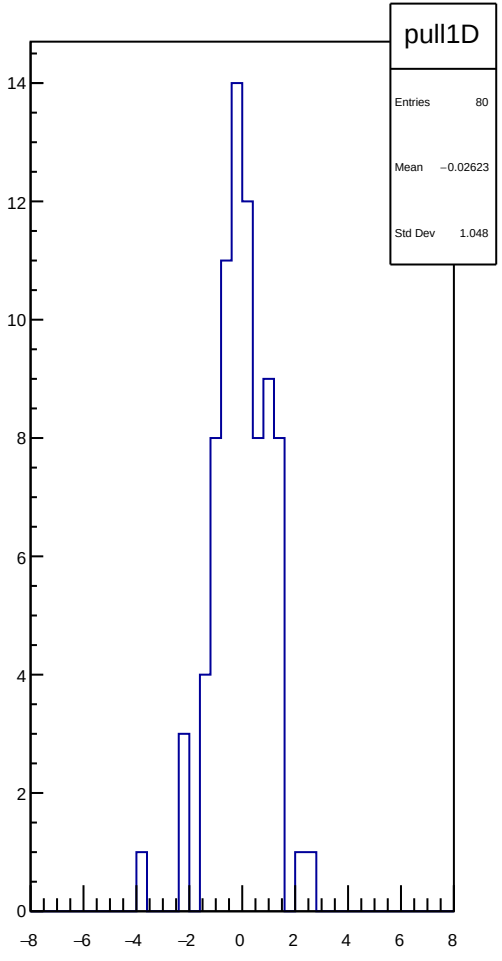

yield_bpm2i02WS_rms vs run
χ² / ndf 5.882e+04 / 81
p0 309.5 ± 0.2467
4000
3500
3000
2500
2000
1500
1000
500

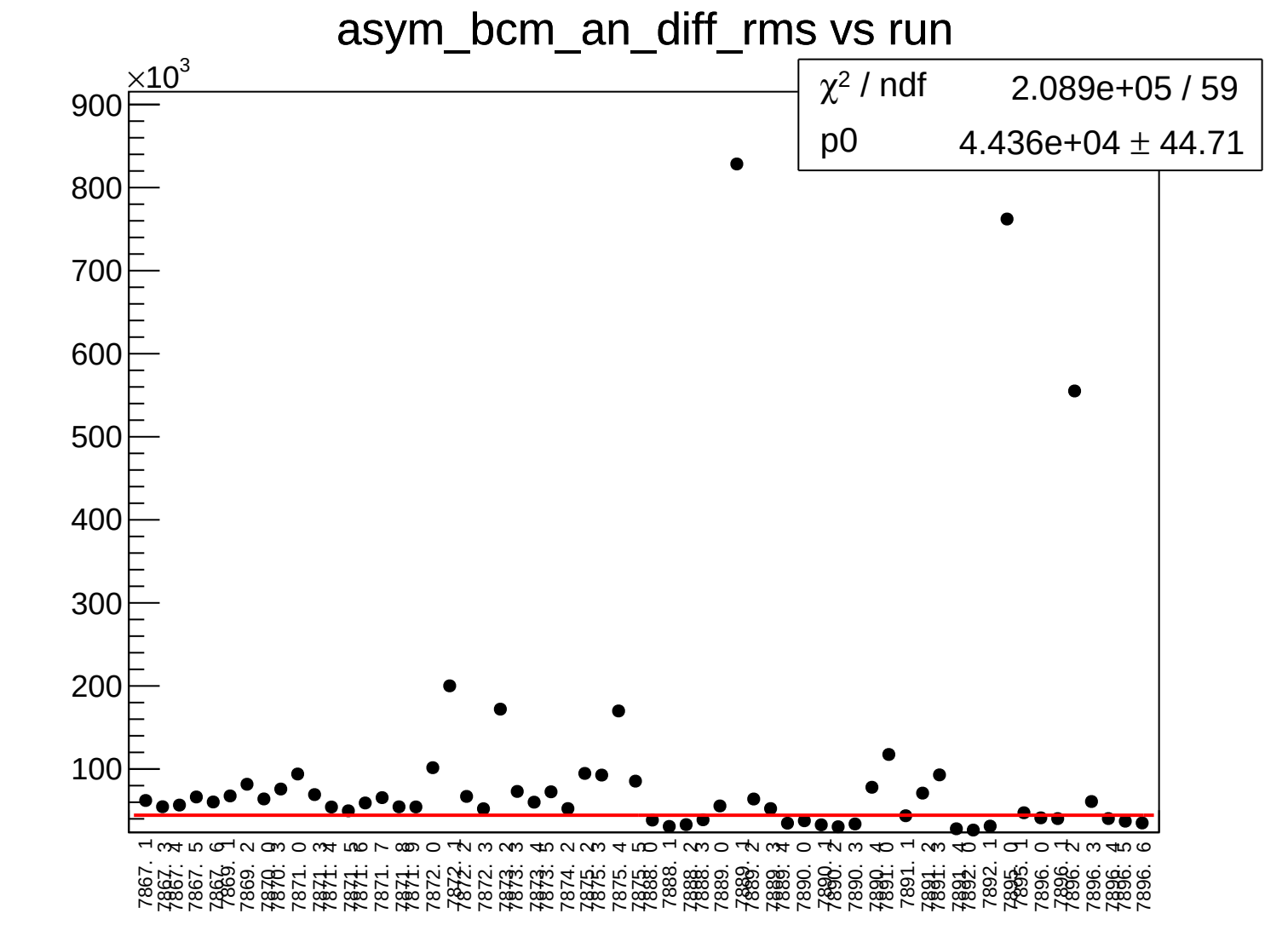

asym_bcm_target_mean vs run
χ² / ndf 19.07 / 81
p0 54.74 ± 153
pull
Entries 82
Mean 228.1
Std Dev 0

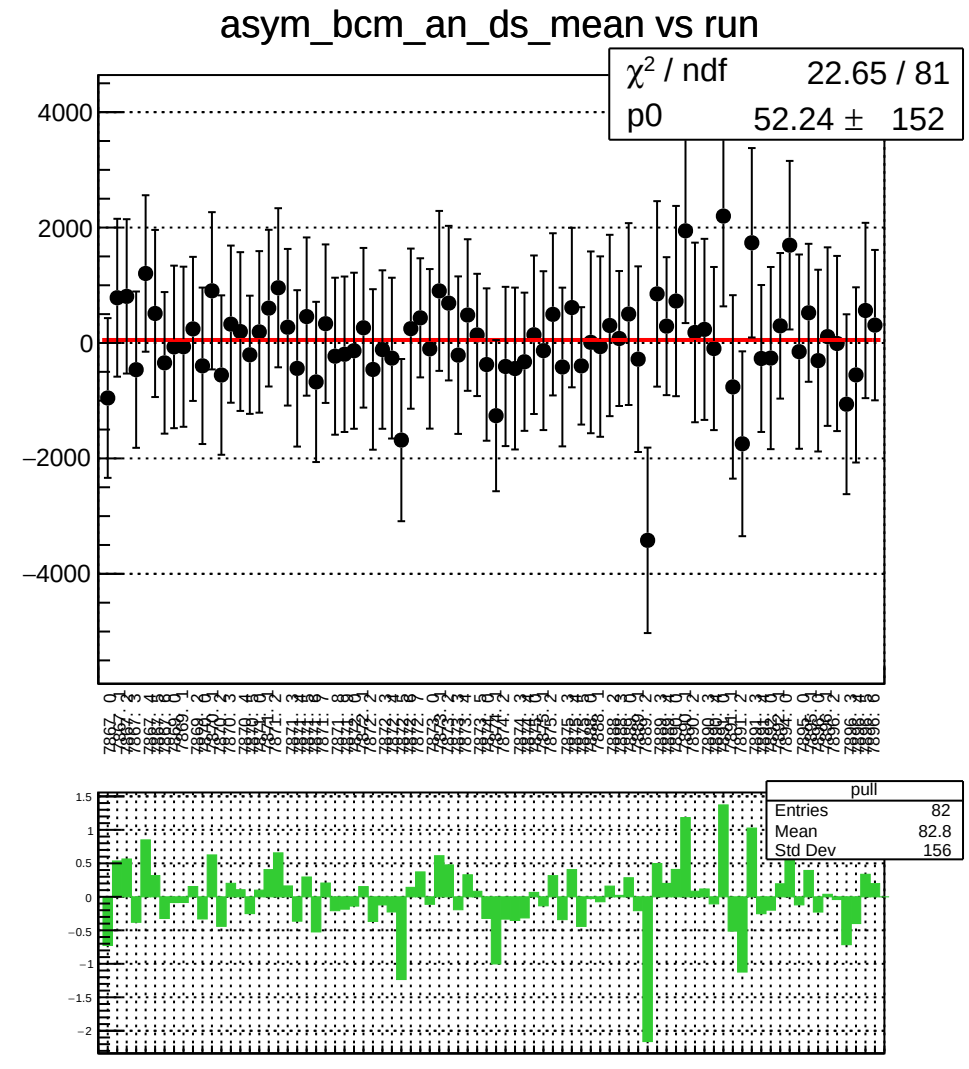

pull1D
Entries 82
Mean 0.00184
Std Dev 0.4822

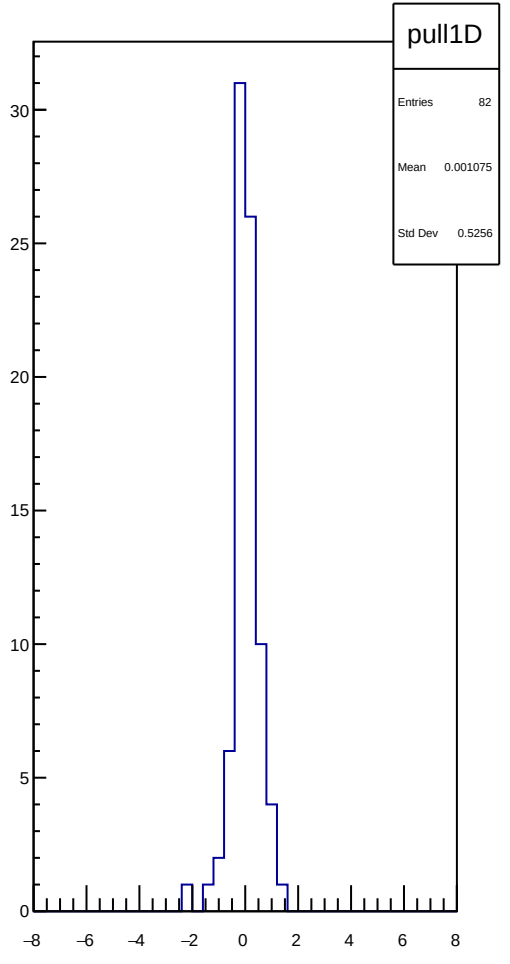

asym_bcm_target_rms vs run
χ² / ndf 8262 / 81
p0 137.9 ± 0.1082
165
160
155
150
145
140
135
130
125

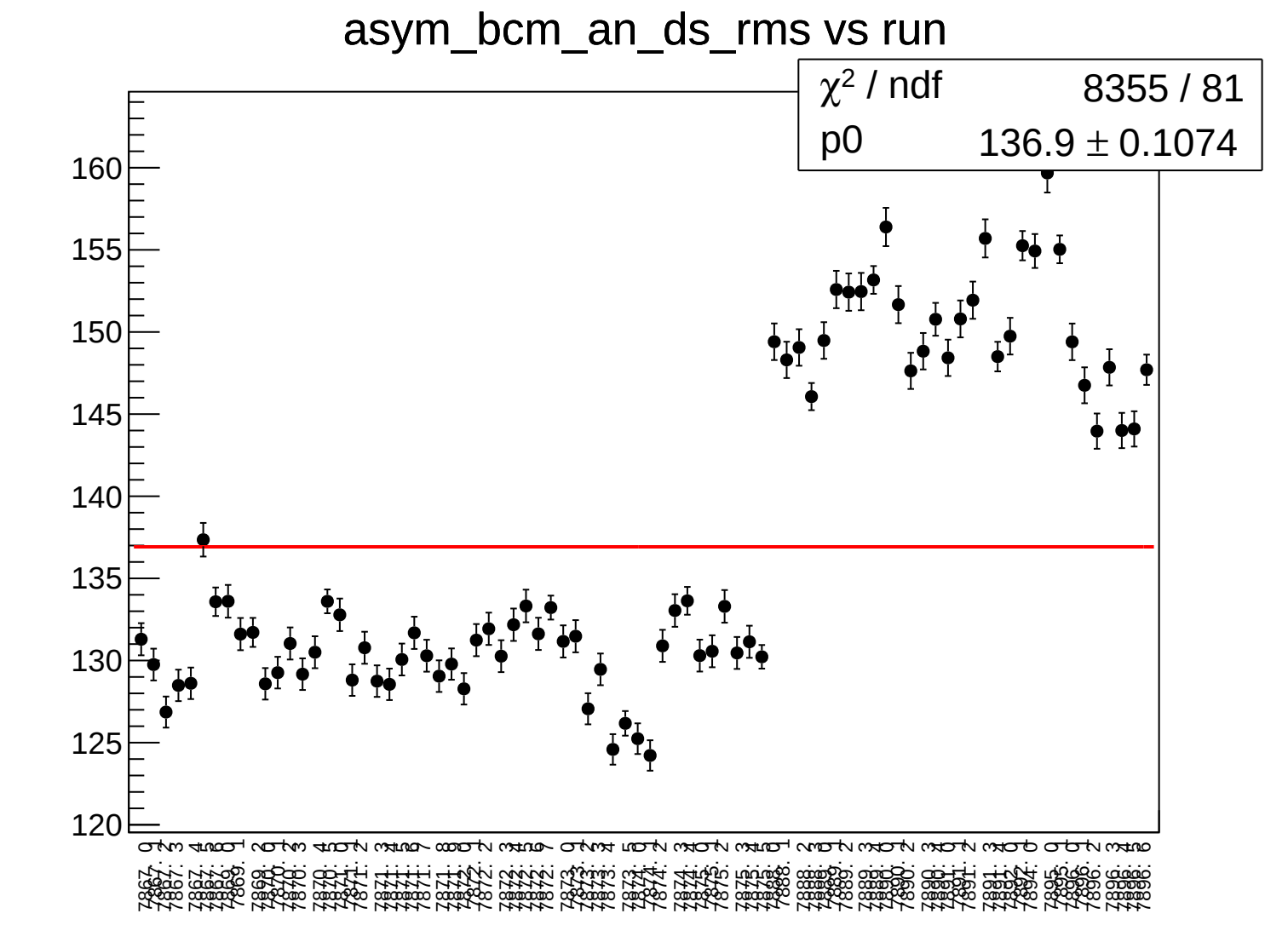

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 87.9 / 79
p0 18.88 ± 63.23
1000
500
0
−500
−1000
−1500
pull
Entries 80
Mean 63.94
Std Dev 0
2
1
0
−1
−2
−3
−4

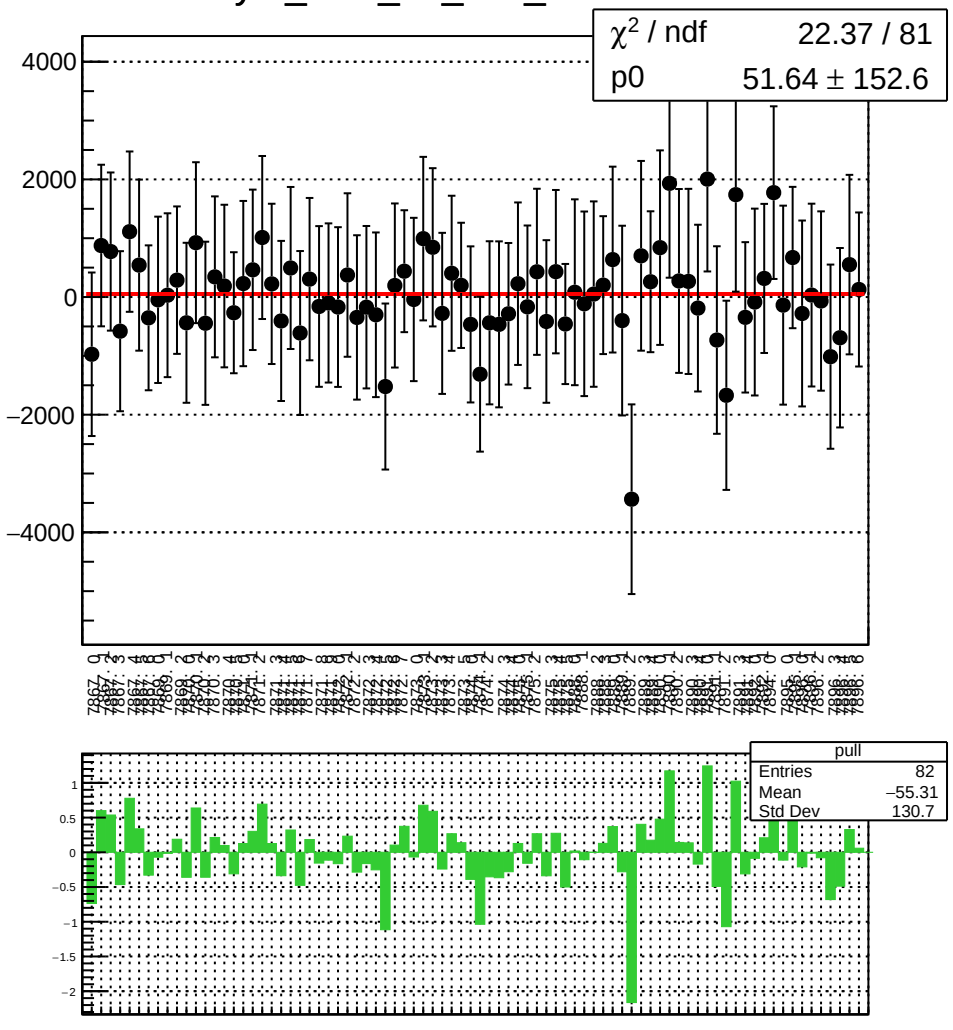

pull1D
Entries 80
Mean −0.02623
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

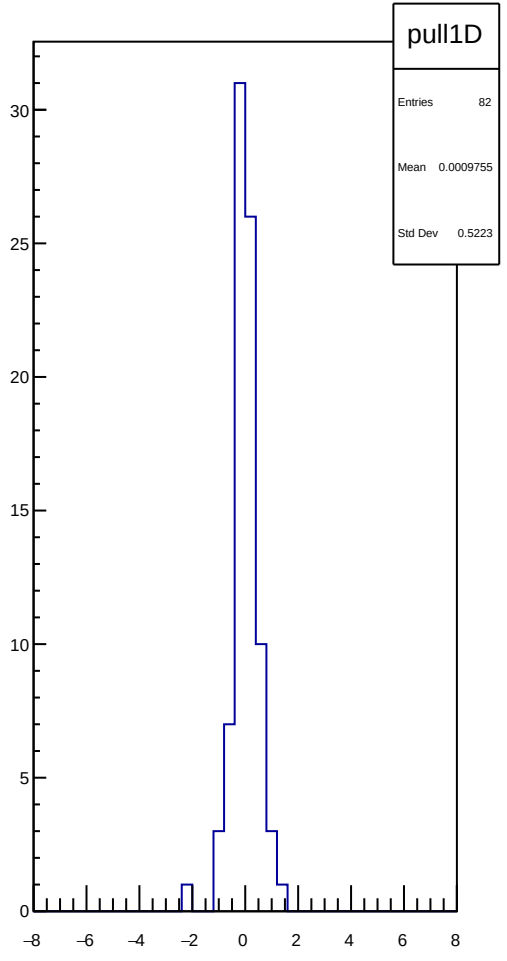

asym_bcm_an_diff_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 2.089e+05 / 59
p0 4.436e+04 ± 44.71

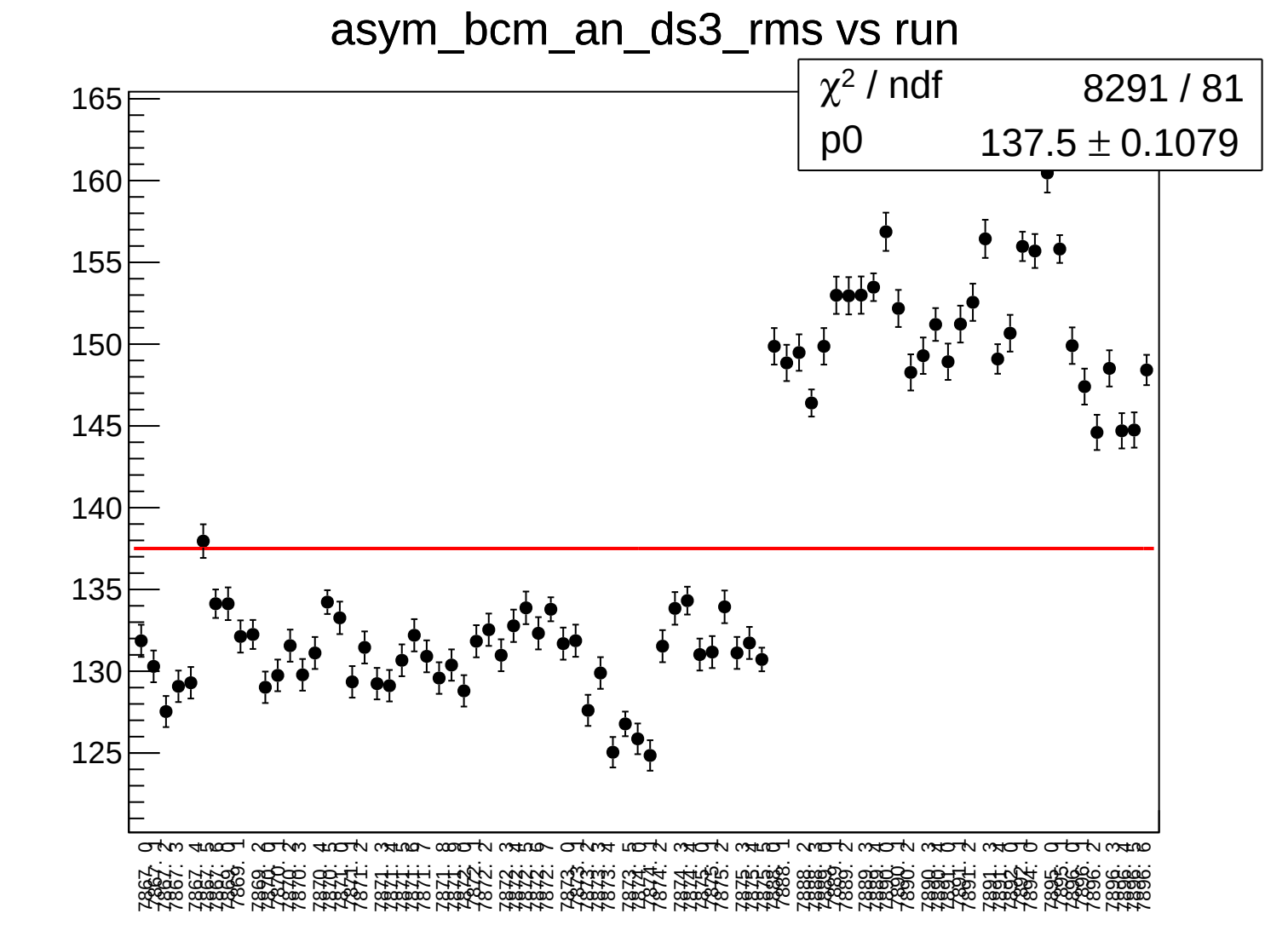

asym_bcm_an_ds_mean vs run
χ² / ndf 22.65 / 81
p0 52.24 ± 152
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 82.8
Std Dev 156
1.5
1
0.5
0
−0.5
−1
−1.5
−2

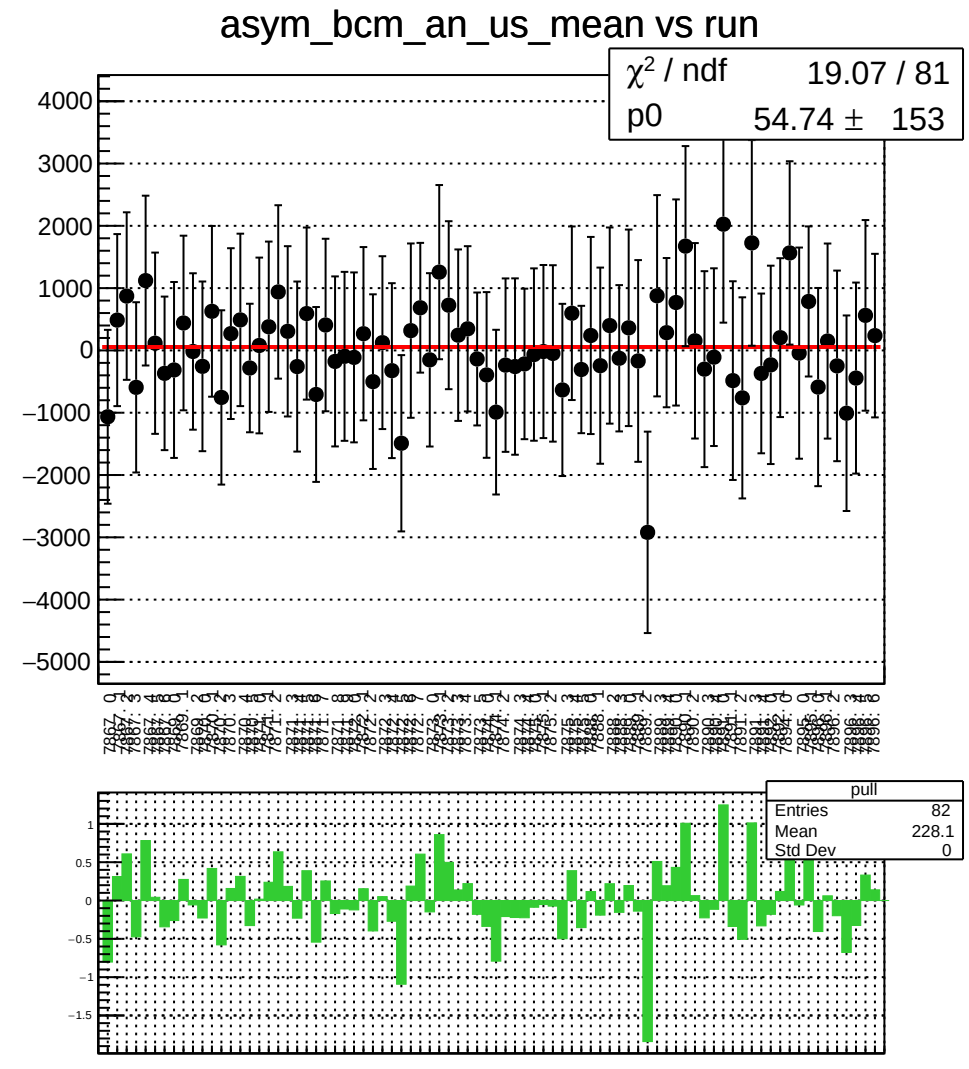

pull1D
Entries 82
Mean 0.001075
Std Dev 0.5256
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

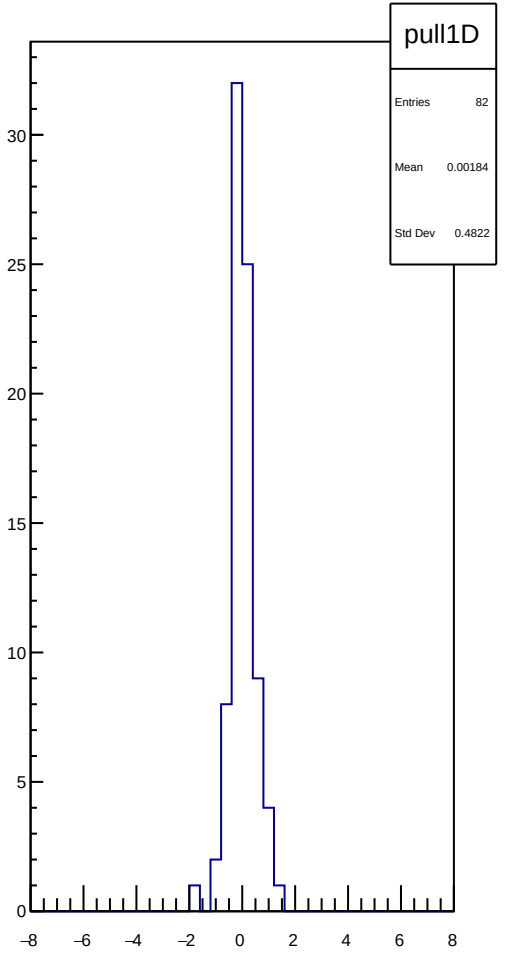

asym_bcm_an_ds_rms vs run
χ² / ndf 8355 / 81
p0 136.9 ± 0.1074
160
155
150
145
140
135
130
125
120

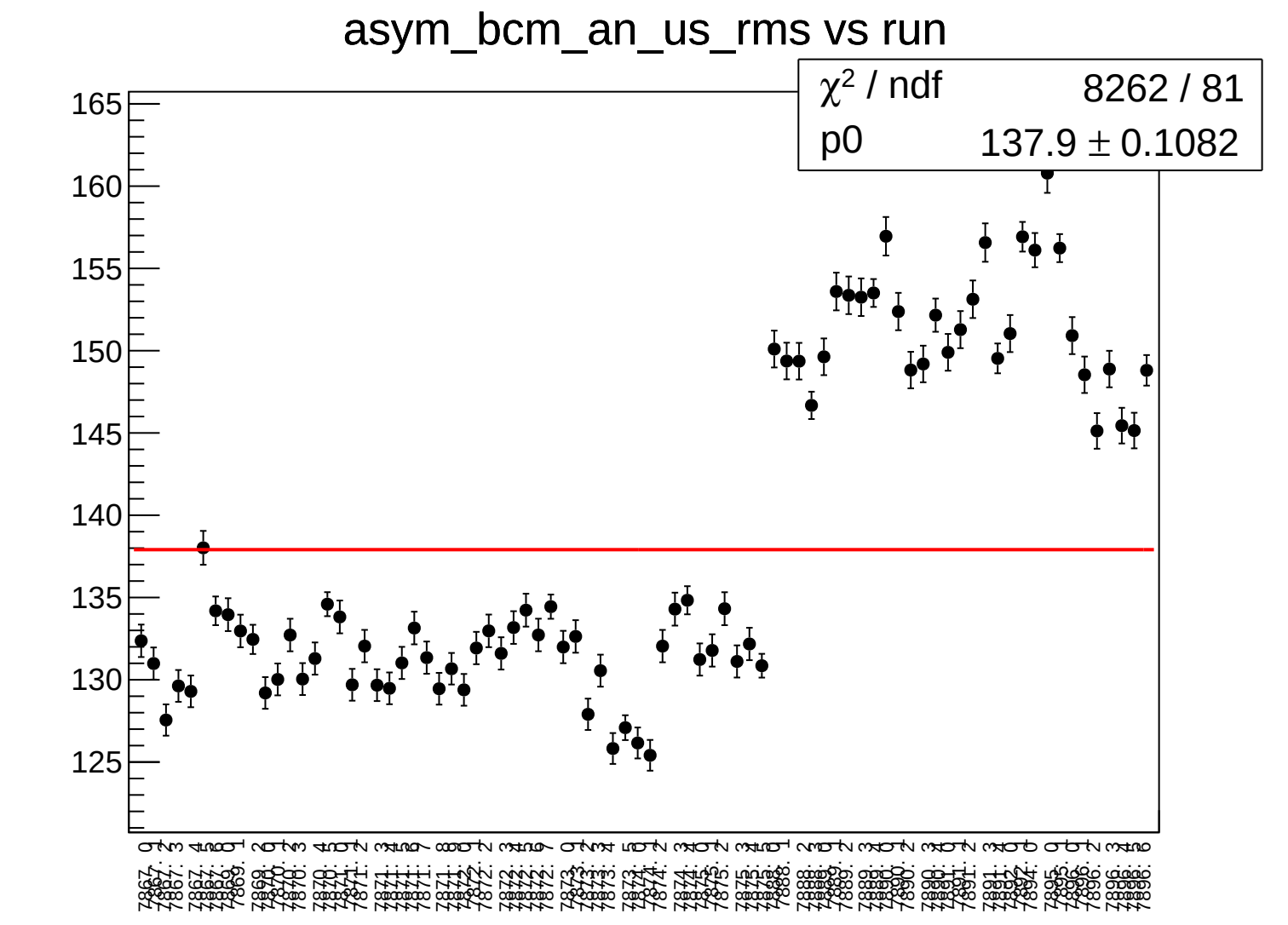

asym_bcm_an_ds3_mean vs run
χ² / ndf 22.37 / 81
p0 51.64 ± 152.6
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −55.31
Std Dev 130.7
1
0.5
0
−0.5
−1
−1.5
−2

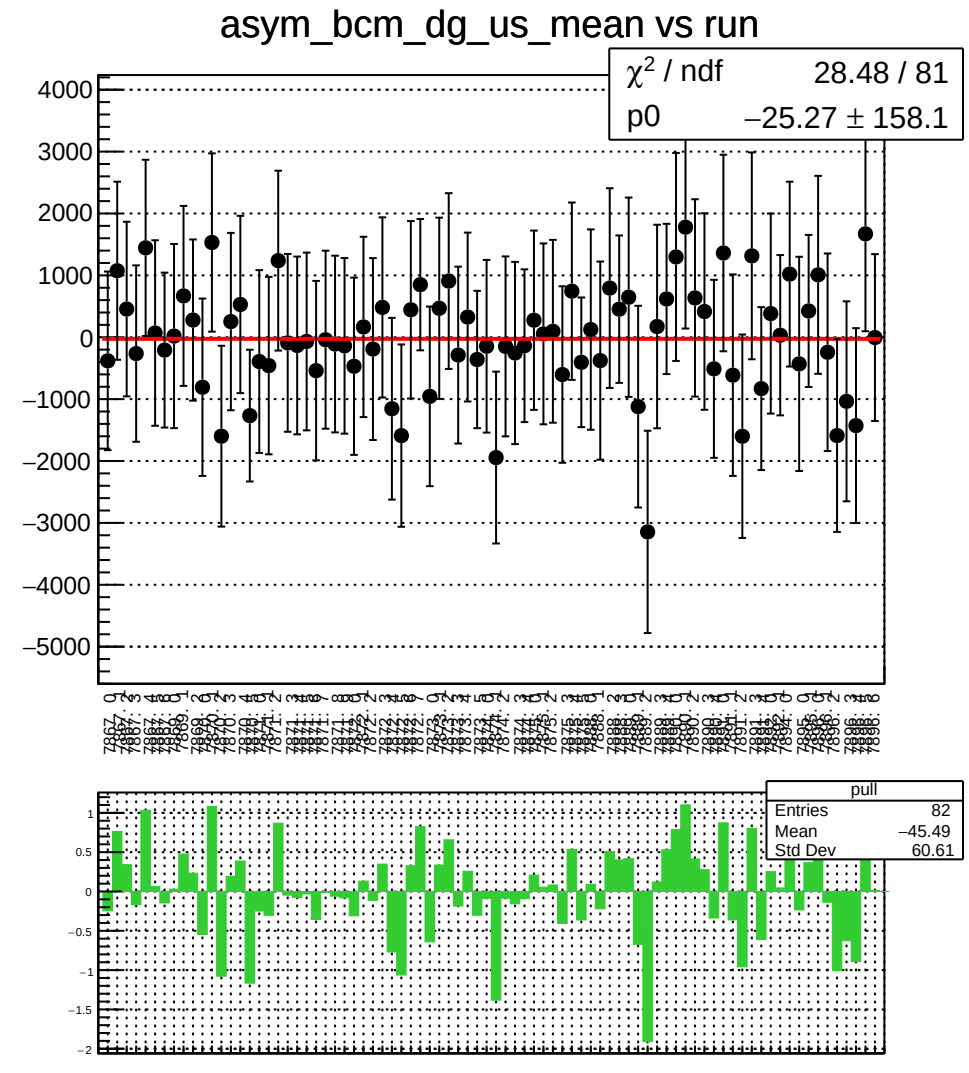

pull1D
Entries 82
Mean 0.0009755
Std Dev 0.5223
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

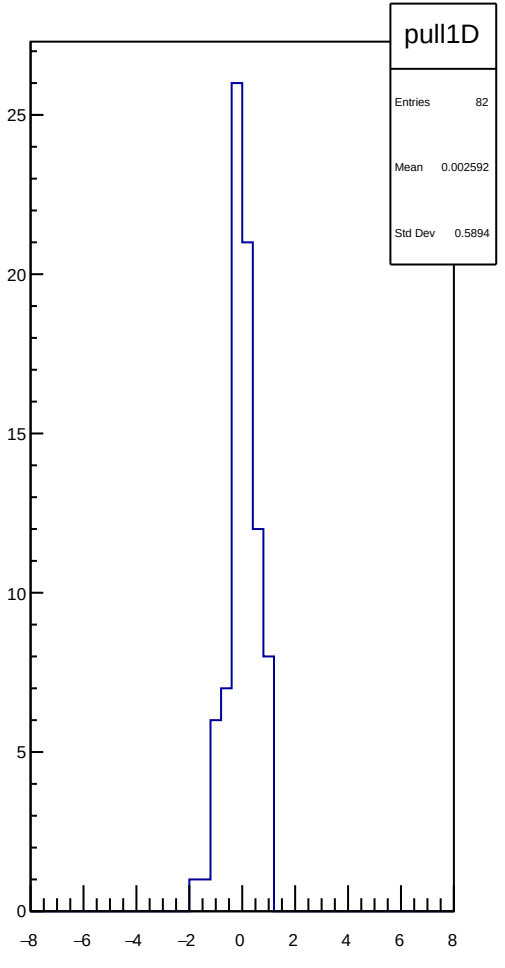

asym_bcm_an_ds3_rms vs run
χ² / ndf 8291 / 81
p0 137.5 ± 0.1079
165
160
155
150
145
140
135
130
125

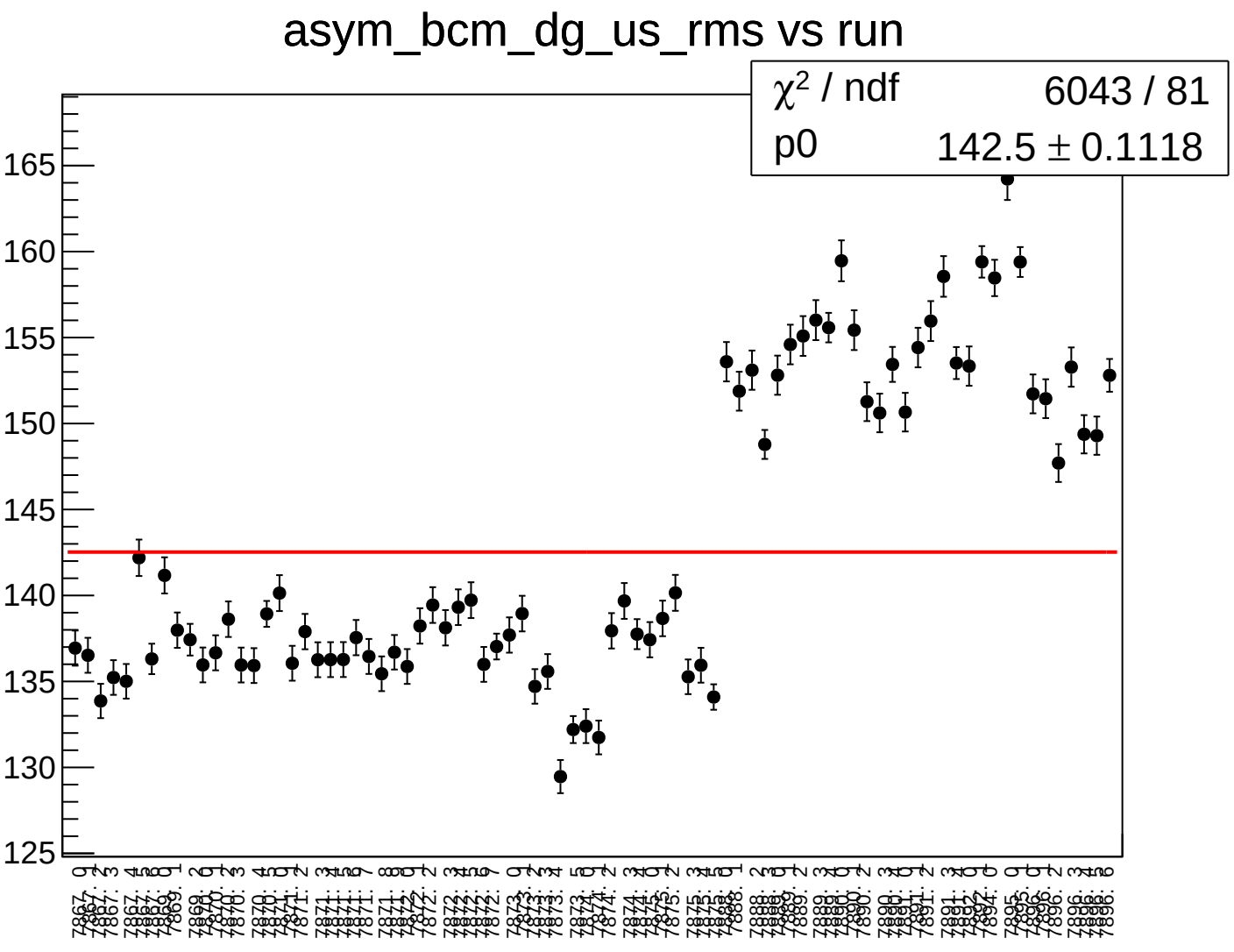

asym_bcm_an_us_mean vs run
χ² / ndf 19.07 / 81
p0 54.74 ± 153
pull
Entries 82
Mean 228.1
Std Dev 0

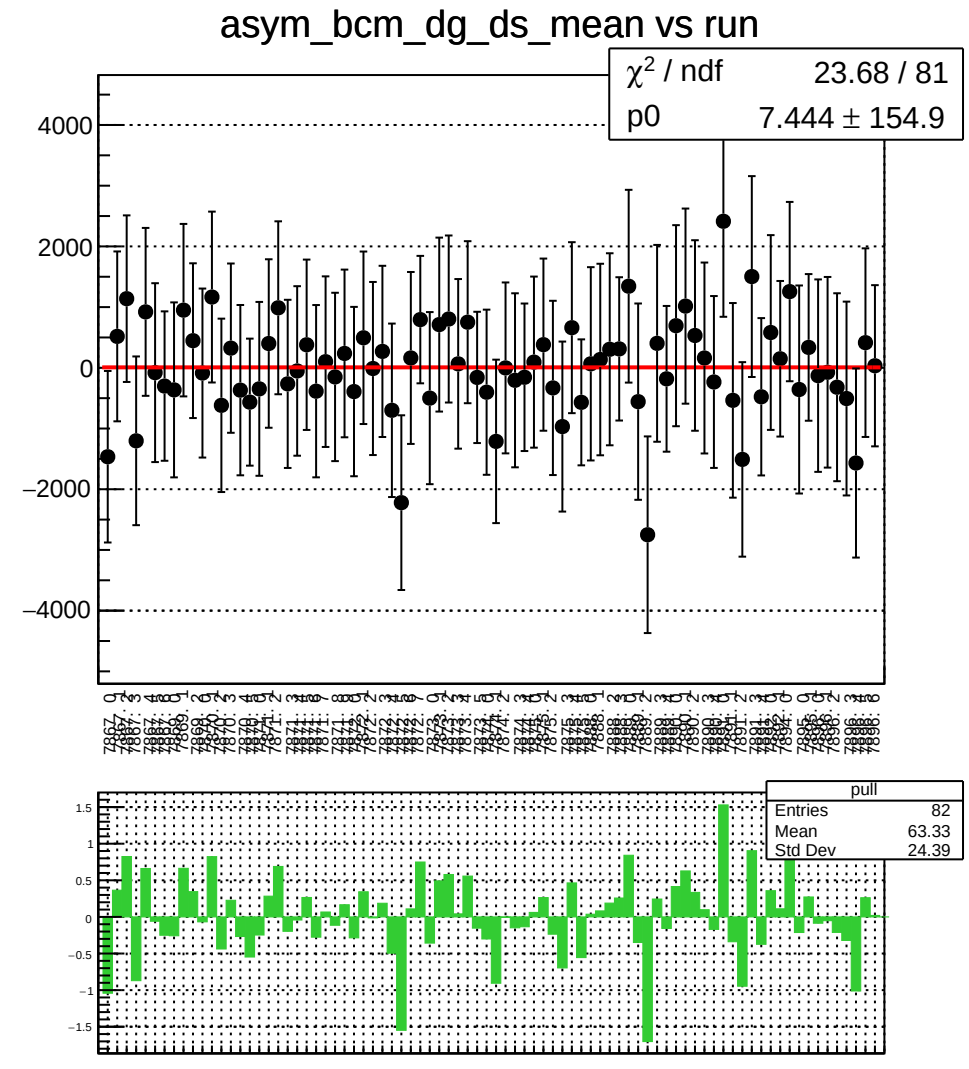

pull1D
Entries 82
Mean 0.00184
Std Dev 0.4822

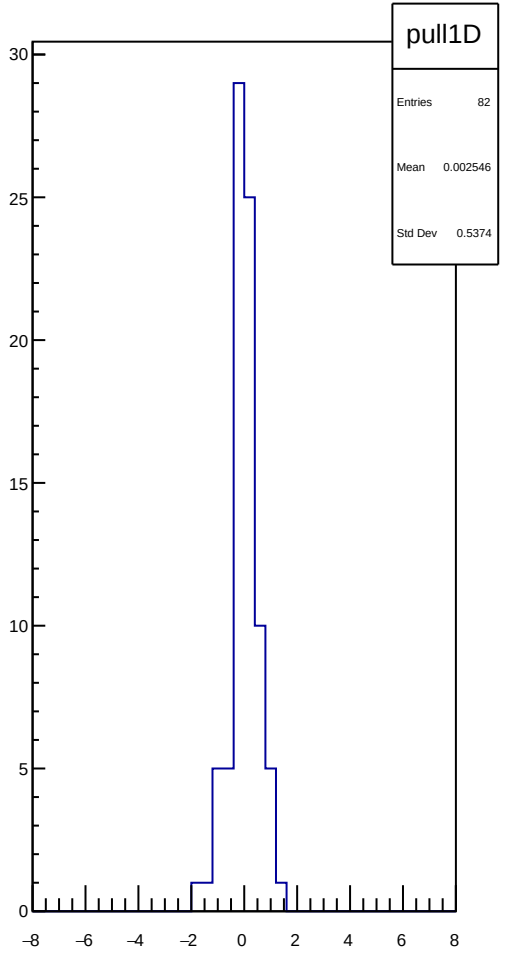

asym_bcm_an_us_rms vs run
χ² / ndf 8262 / 81
p0 137.9 ± 0.1082
165
160
155
150
145
140
135
130
125

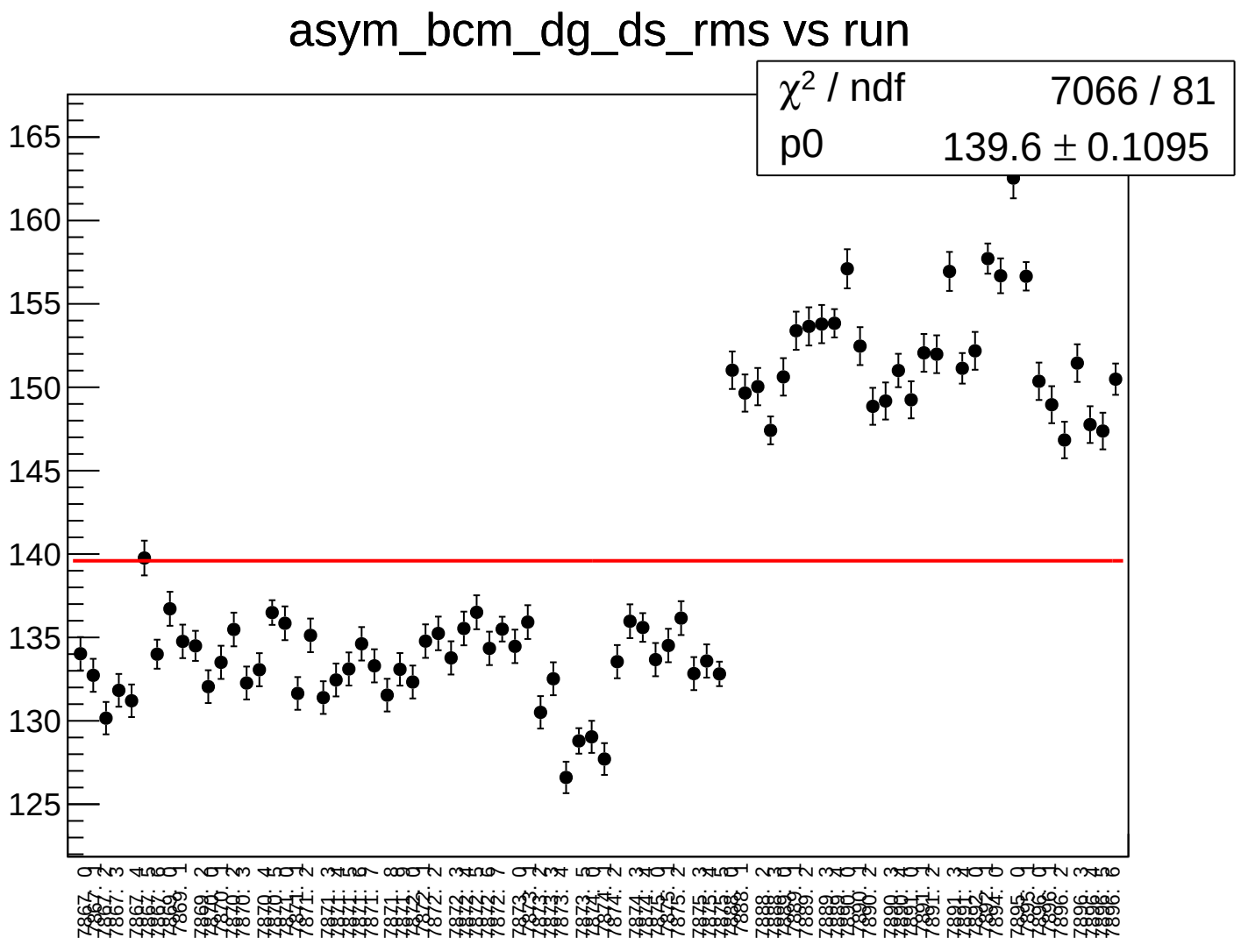

asym_bcm_dg_us_mean vs run
χ² / ndf 28.48 / 81
p0 −25.27 ± 158.1
pull
Entries 82
Mean −45.49
Std Dev 60.61

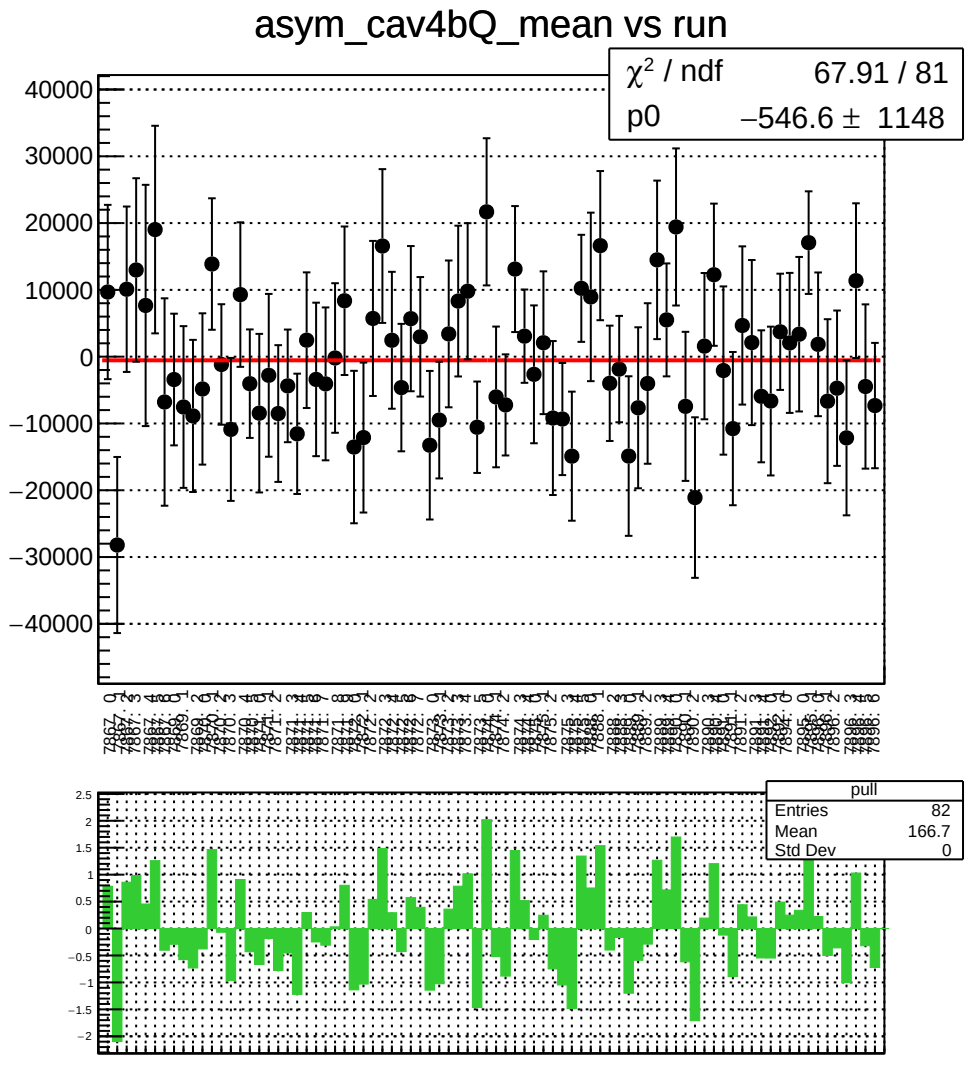

pull1D
Entries 82
Mean 0.002592
Std Dev 0.5894

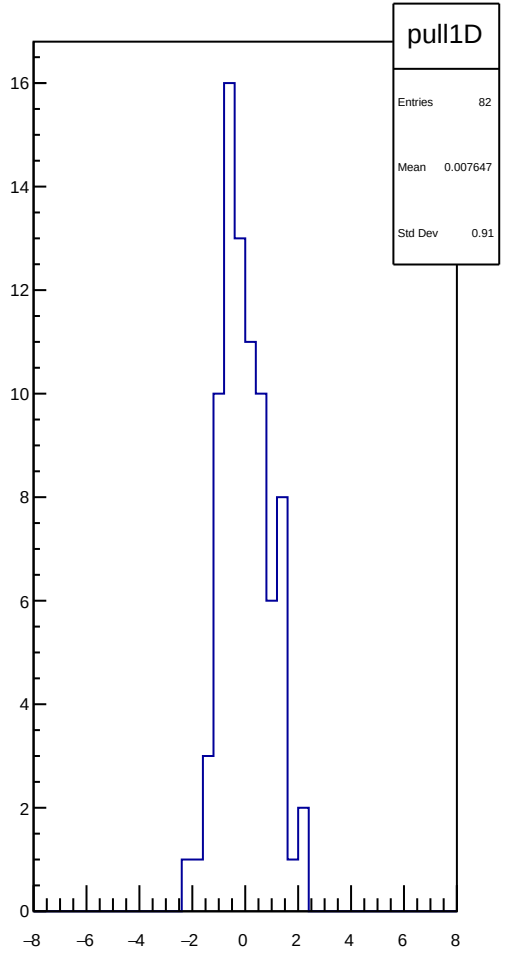

asym_bcm_dg_us_rms vs run
χ² / ndf 6043 / 81
p0 142.5 ± 0.1118
165
160
155
150
145
140
135
130
125

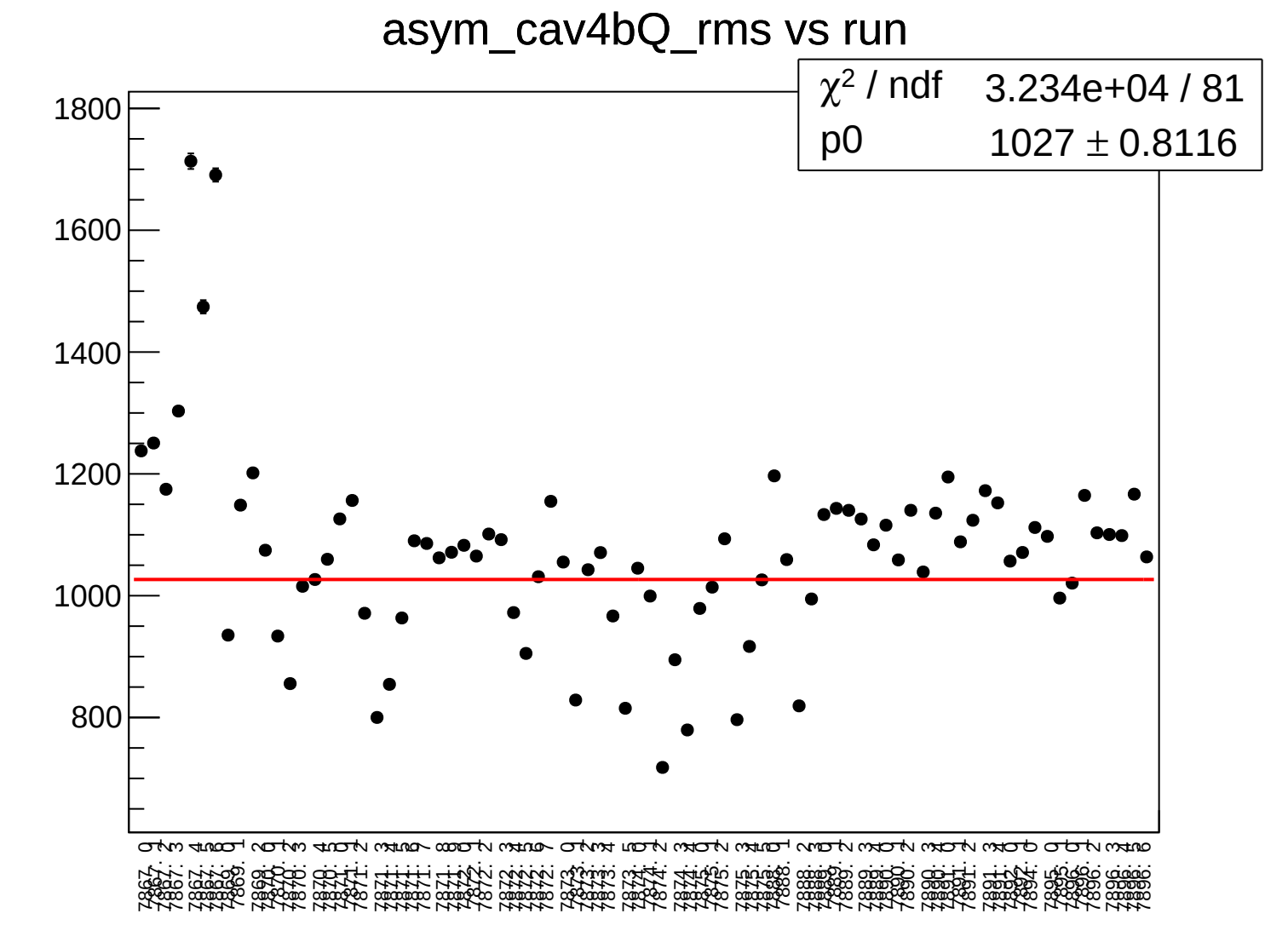

asym_bcm_dg_ds_mean vs run
χ² / ndf 23.68 / 81
p0 7.444 ± 154.9
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 63.33
Std Dev 24.39
1.5
1
0.5
0
−0.5
−1
−1.5

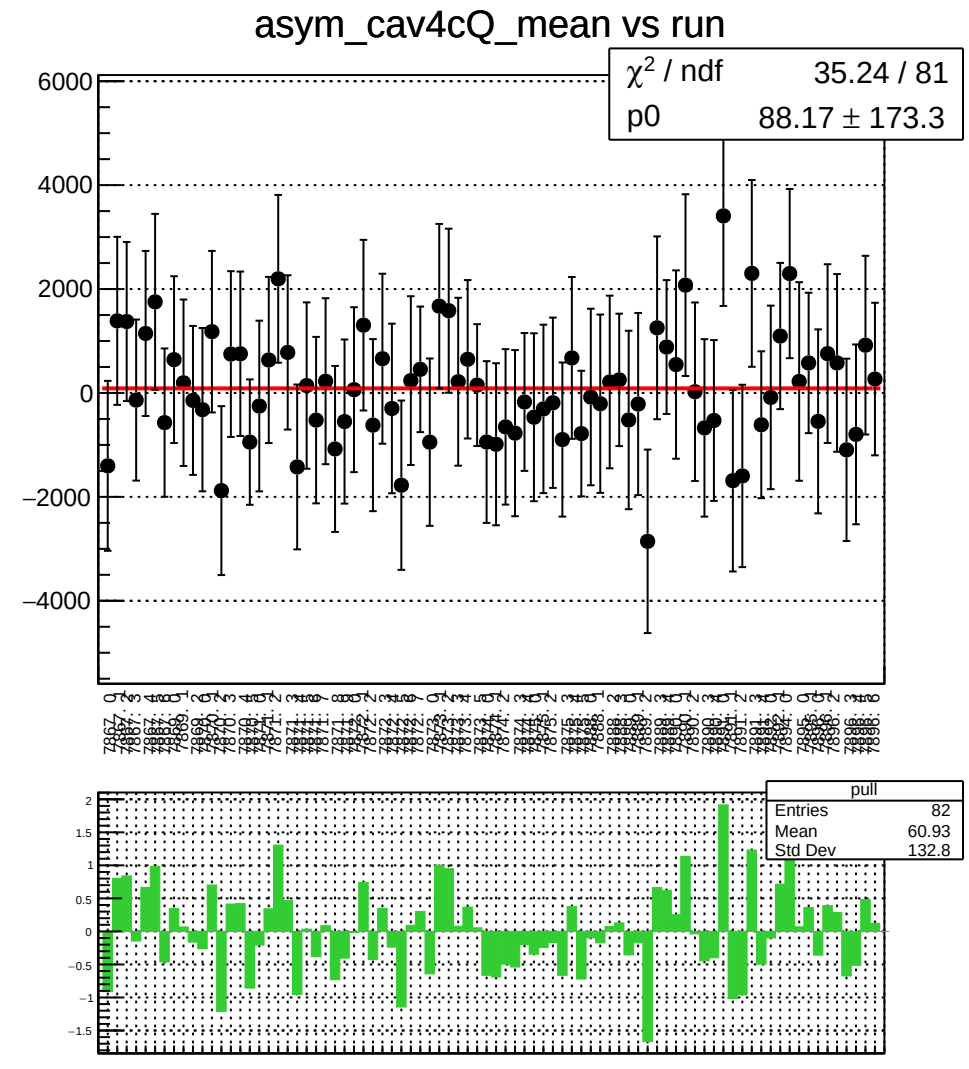

pull1D
Entries 82
Mean 0.002546
Std Dev 0.5374
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

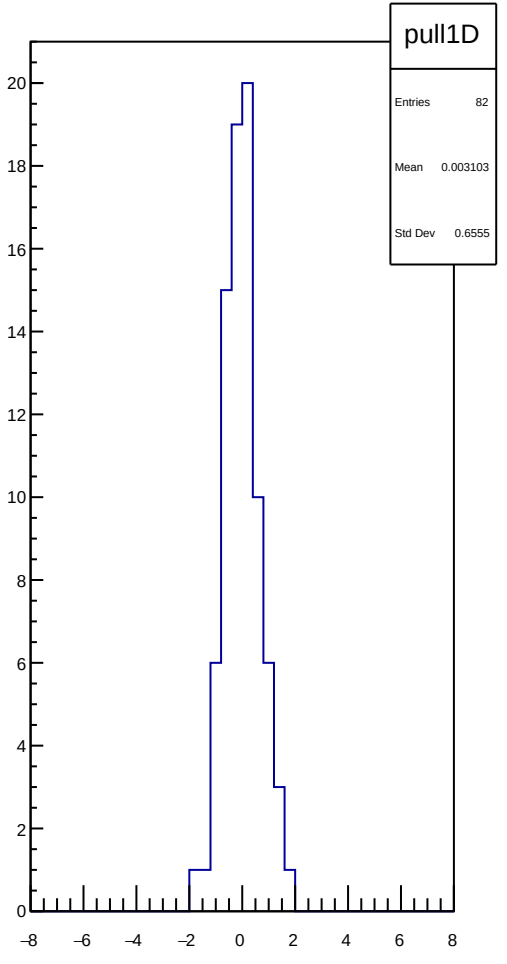

asym_bcm_dg_ds_rms vs run
χ² / ndf 7066 / 81
p0 139.6 ± 0.1095
165
160
155
150
145
140
135
130
125

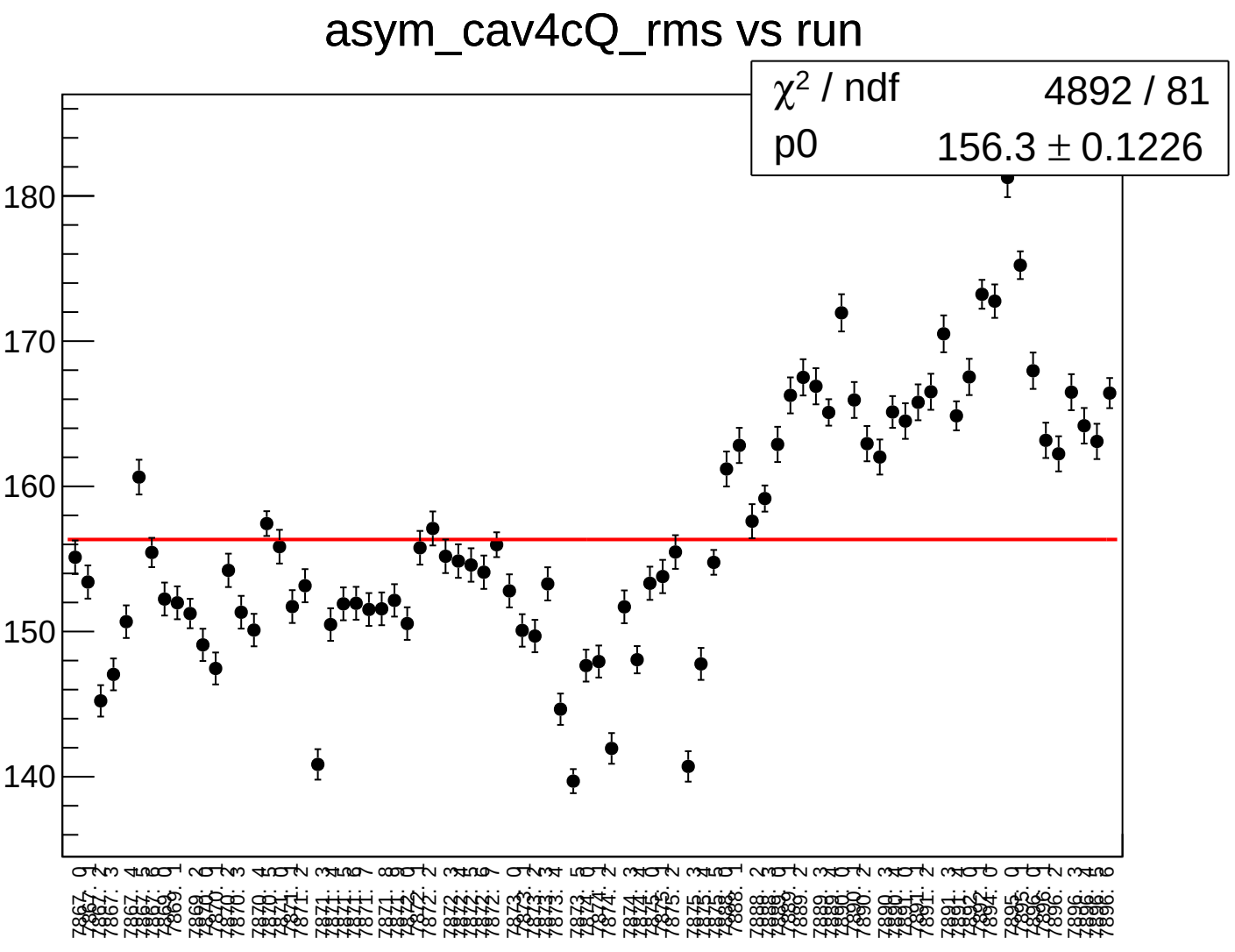

asym_cav4bQ_mean vs run
χ² / ndf 67.91 / 81
p0 −546.6 ± 1148
pull
Entries 82
Mean 166.7
Std Dev 0

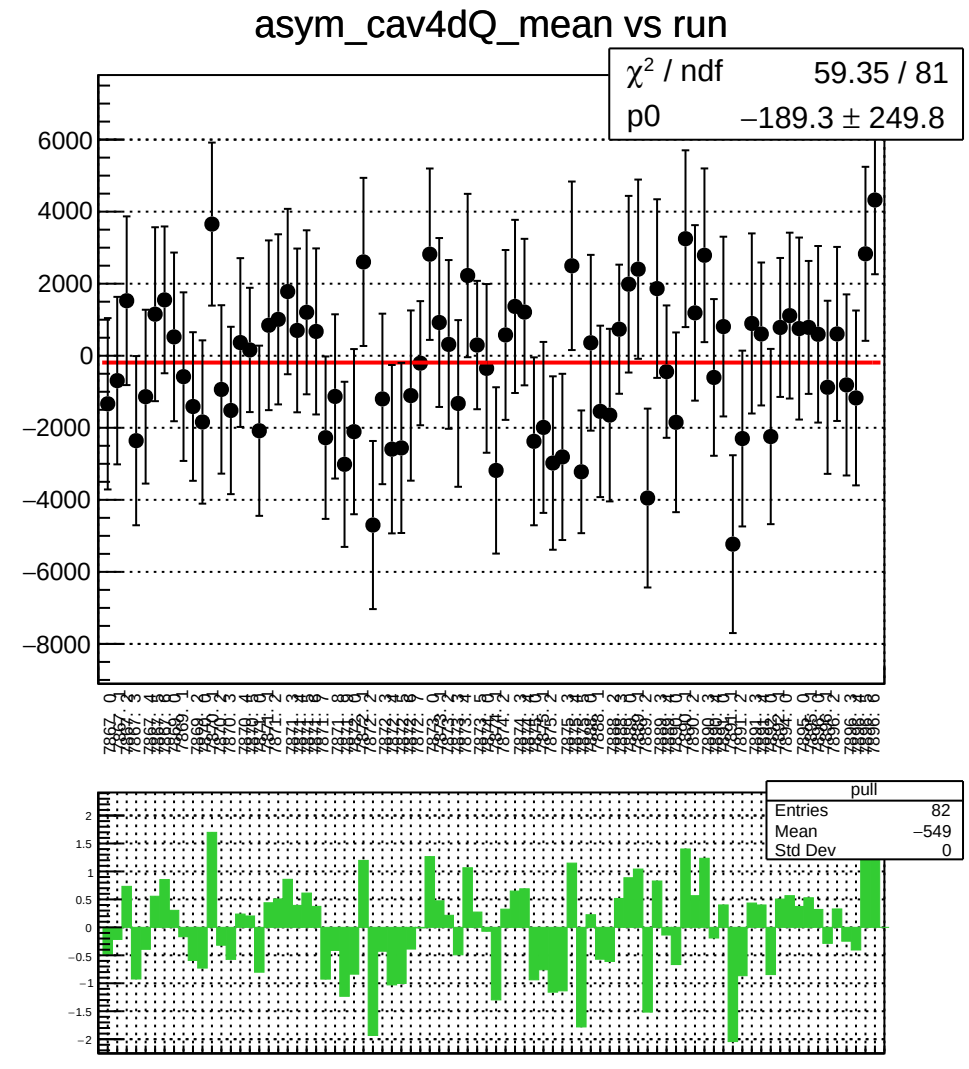

pull1D
Entries 82
Mean 0.007647
Std Dev 0.91

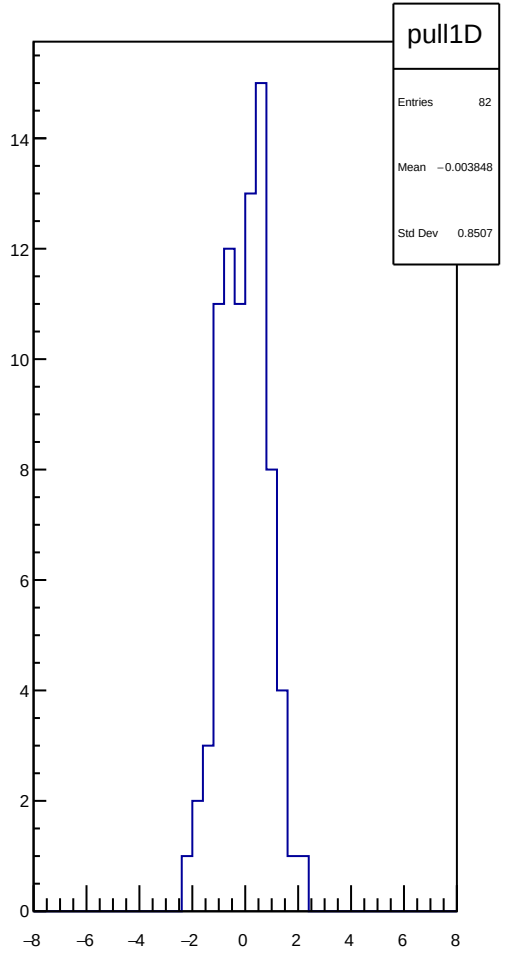

asym_cav4bQ_rms vs run
χ² / ndf 3.234e+04 / 81
p0 1027 ± 0.8116
1800
1600
1400
1200
1000
800

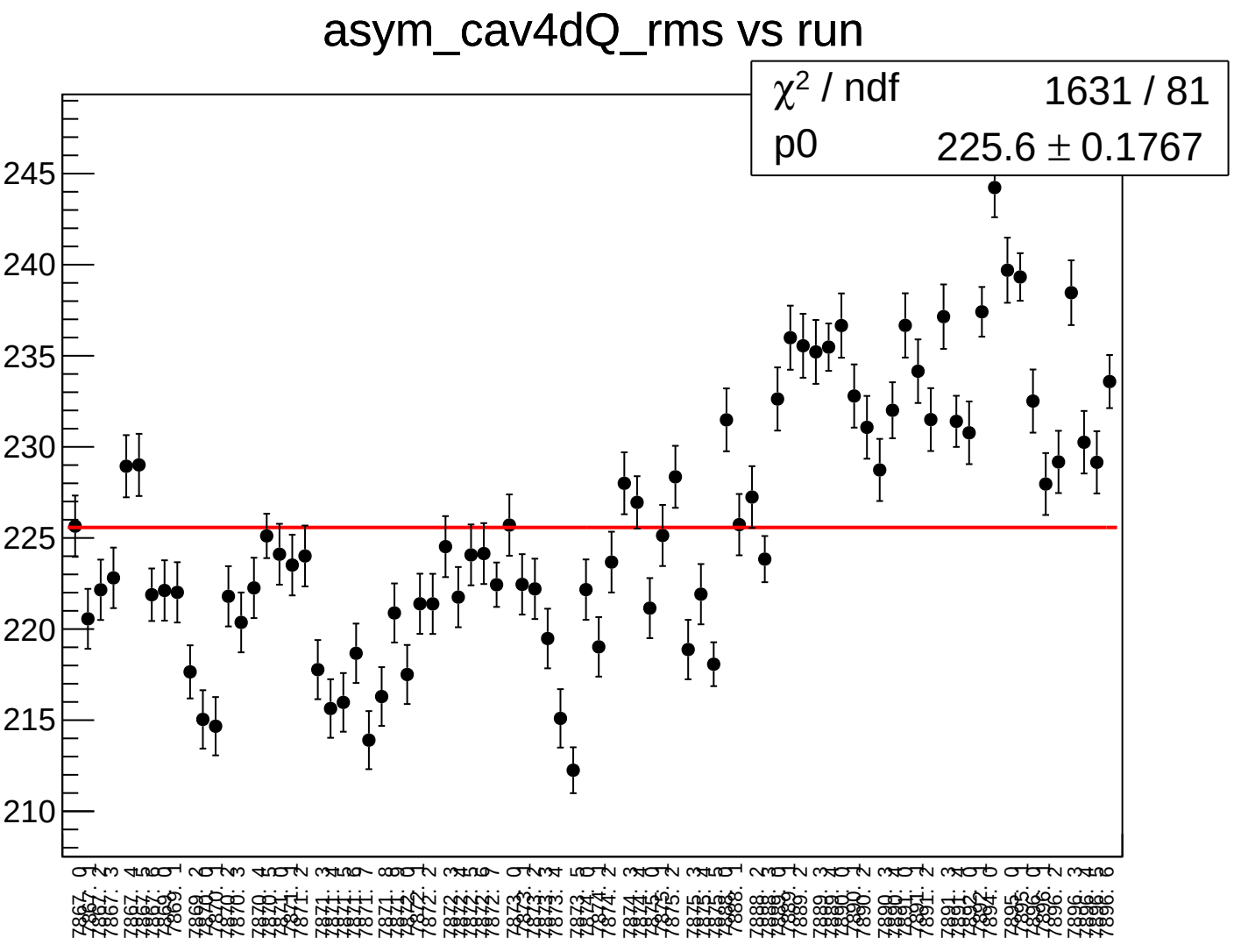

asym_cav4cQ_mean vs run
χ² / ndf 35.24 / 81
p0 88.17 ± 173.3
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 60.93
Std Dev 132.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

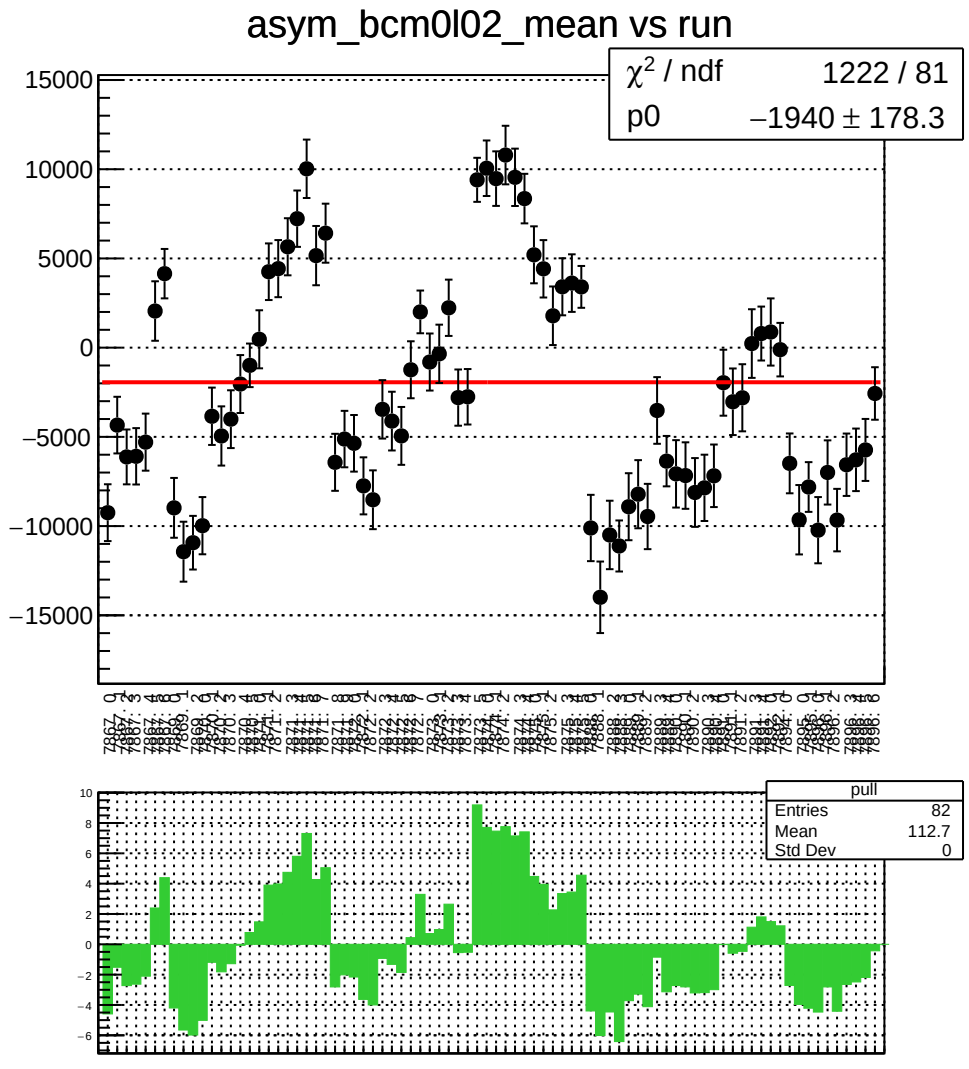

pull1D
Entries 82
Mean 0.003103
Std Dev 0.6555
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

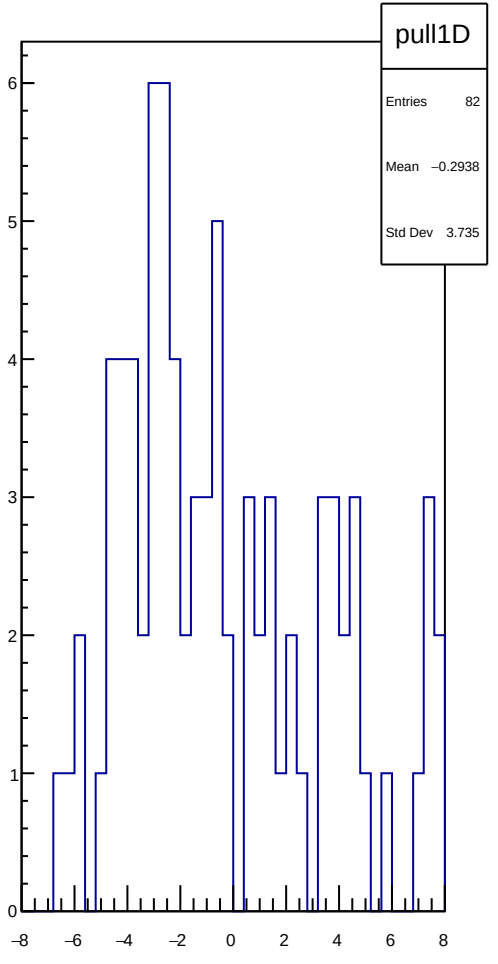

asym_cav4cQ_rms vs run
χ² / ndf 4892 / 81
p0 156.3 ± 0.1226
180
170
160
150
140

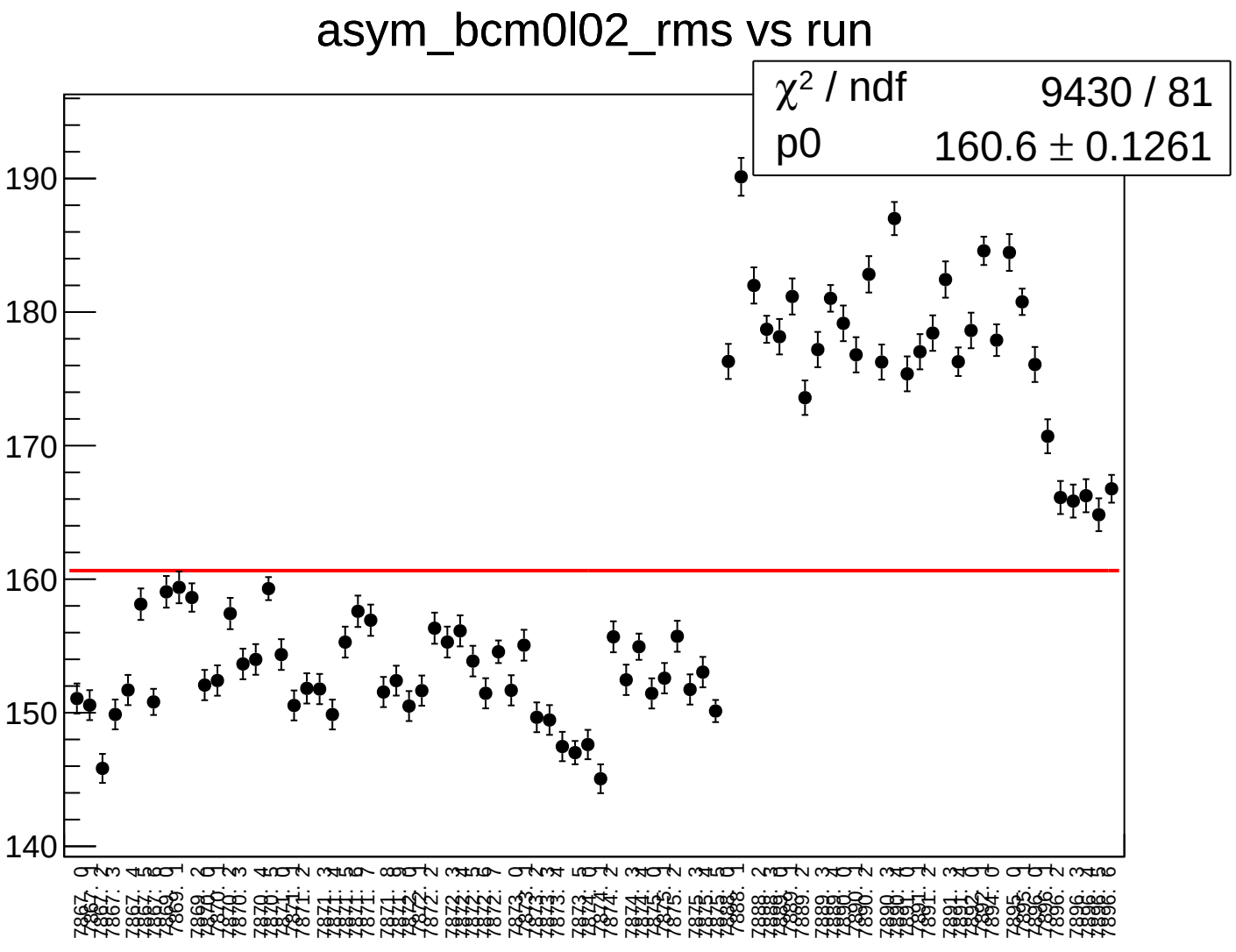

asym_cav4dQ_mean vs run
χ² / ndf 59.35 / 81
p0 −189.3 ± 249.8
pull
Entries 82
Mean −549
Std Dev 0

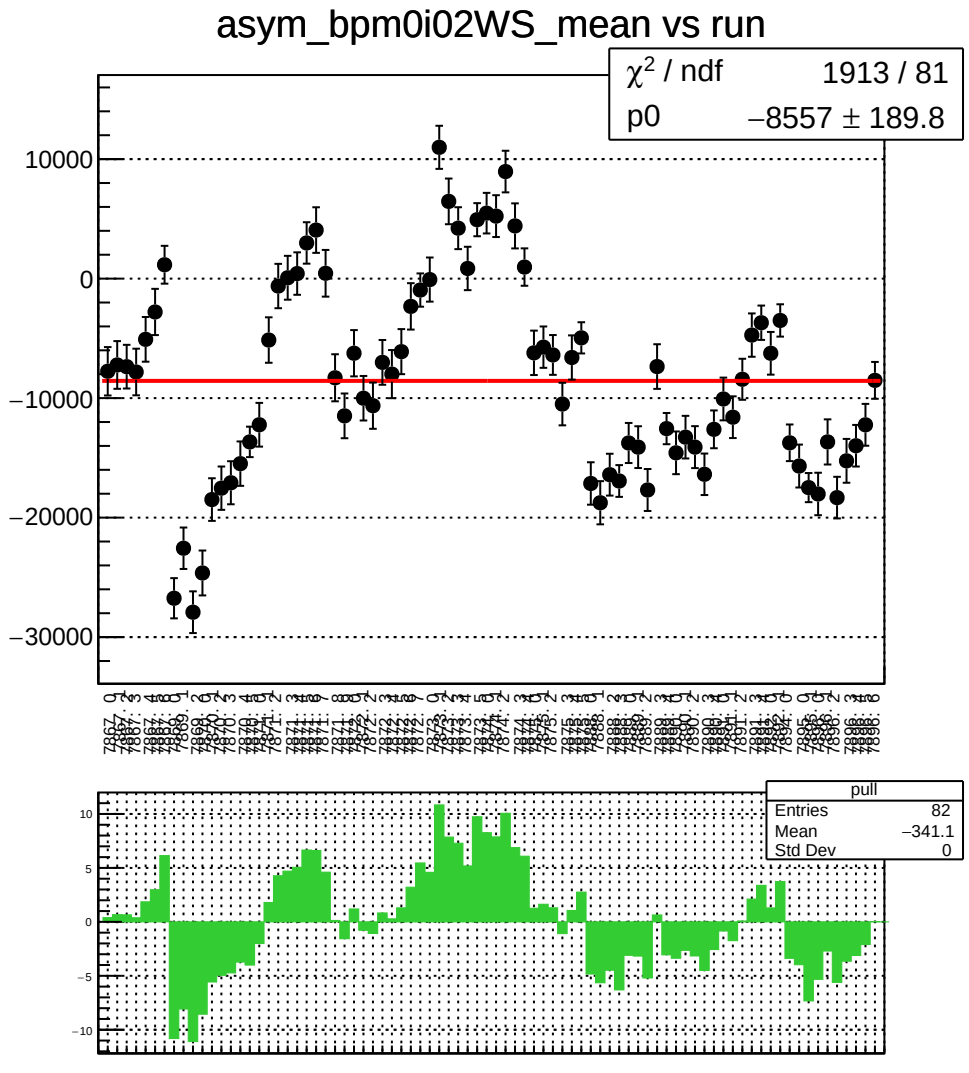

pull1D
Entries 82
Mean −0.003848
Std Dev 0.8507

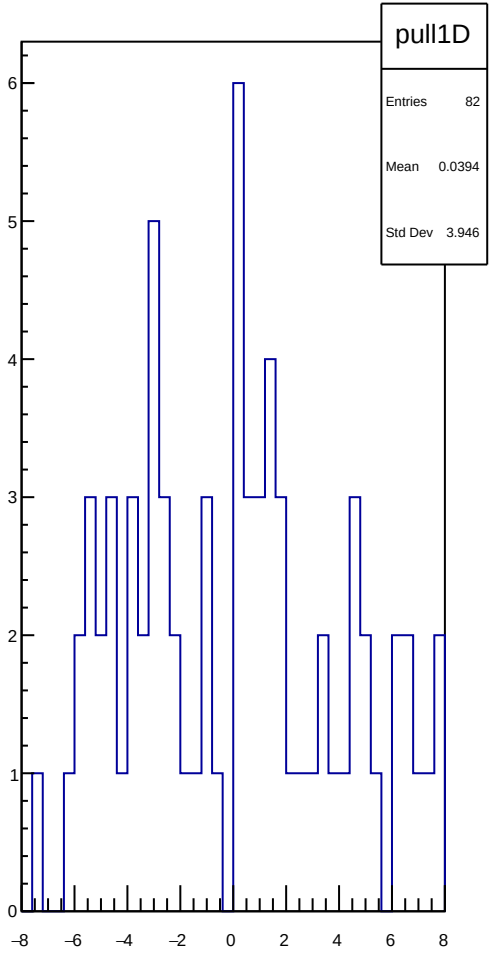

asym_cav4dQ_rms vs run
χ² / ndf 1631 / 81
p0 225.6 ± 0.1767
245
240
235
230
225
220
215
210

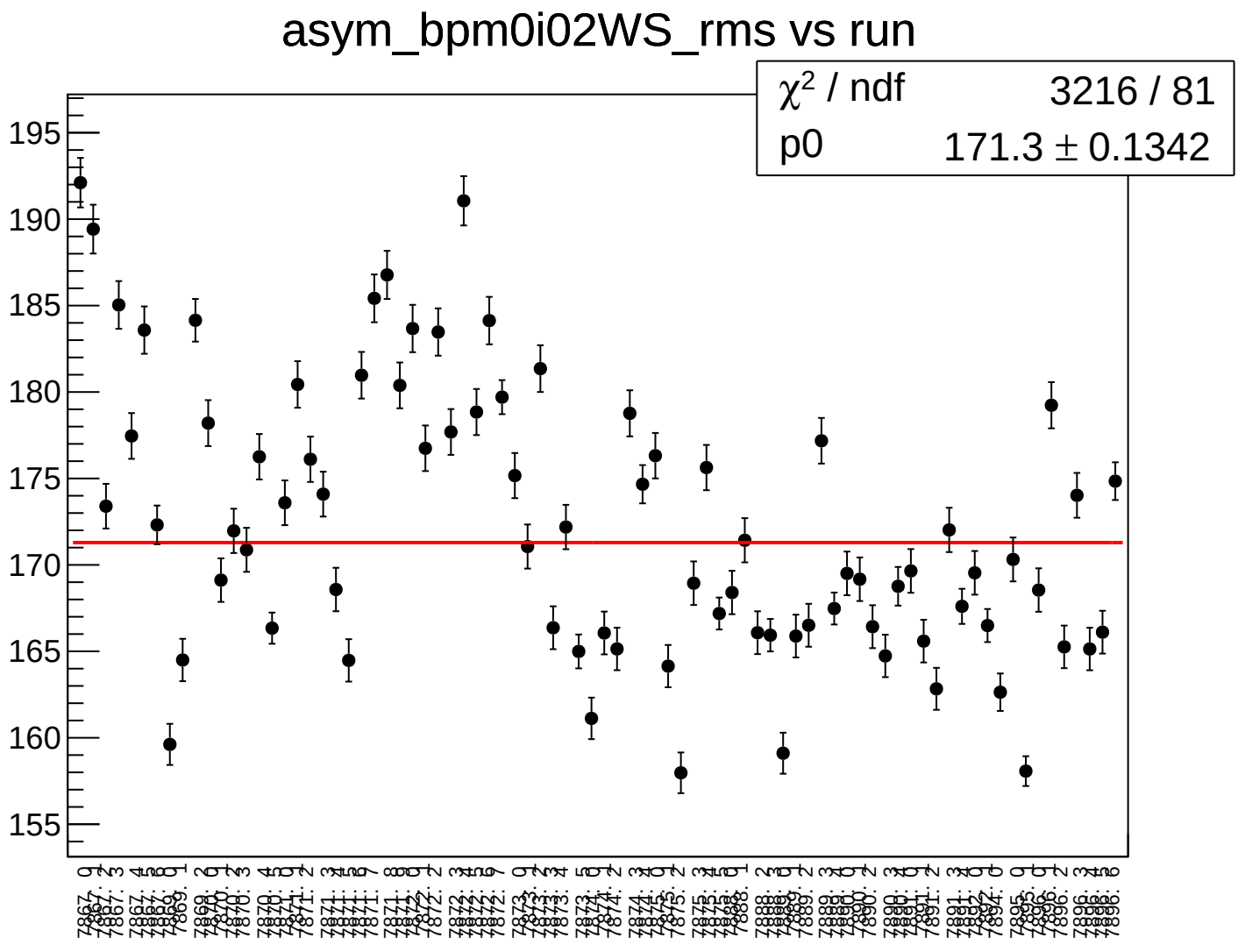

asym_bcm0l02_mean vs run
χ² / ndf 1222 / 81
p0 −1940 ± 178.3
pull
Entries 82
Mean 112.7
Std Dev 0

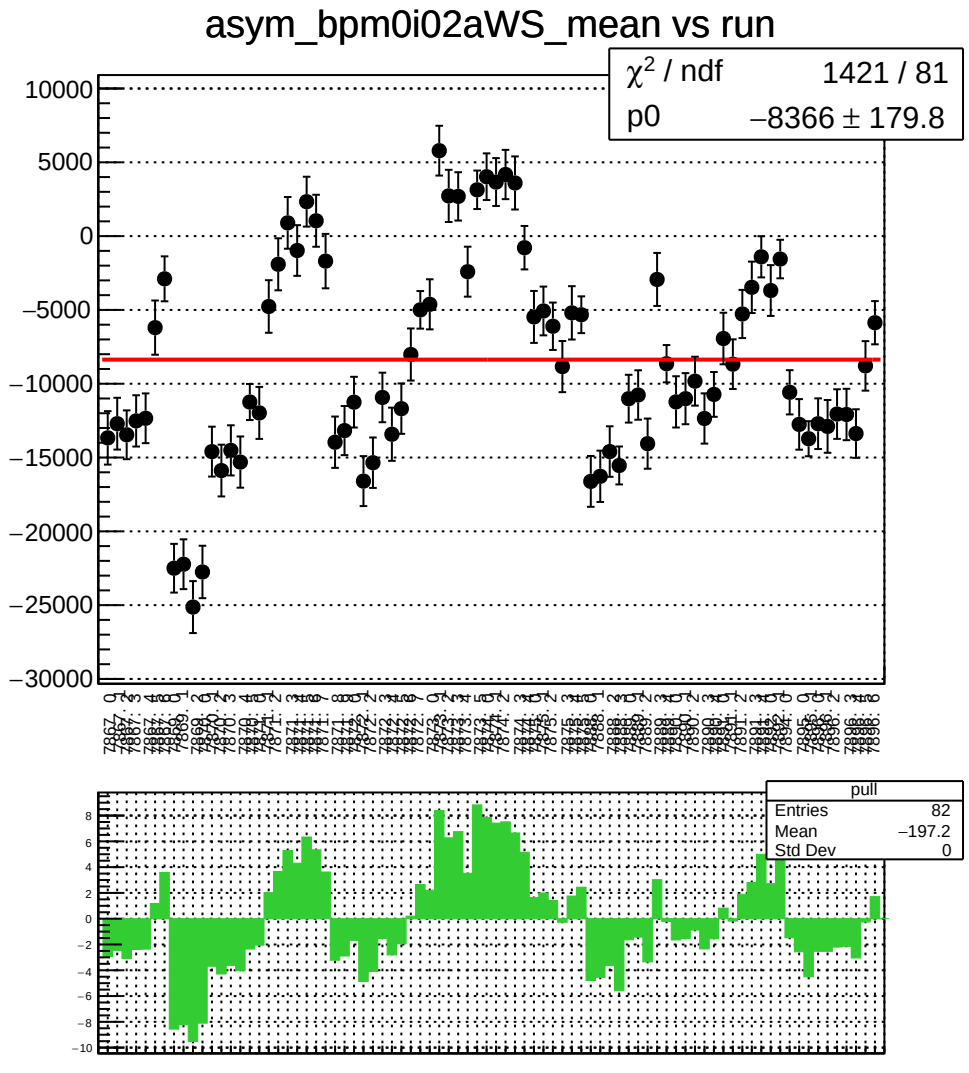

pull1D
Entries 82
Mean −0.2938
Std Dev 3.735

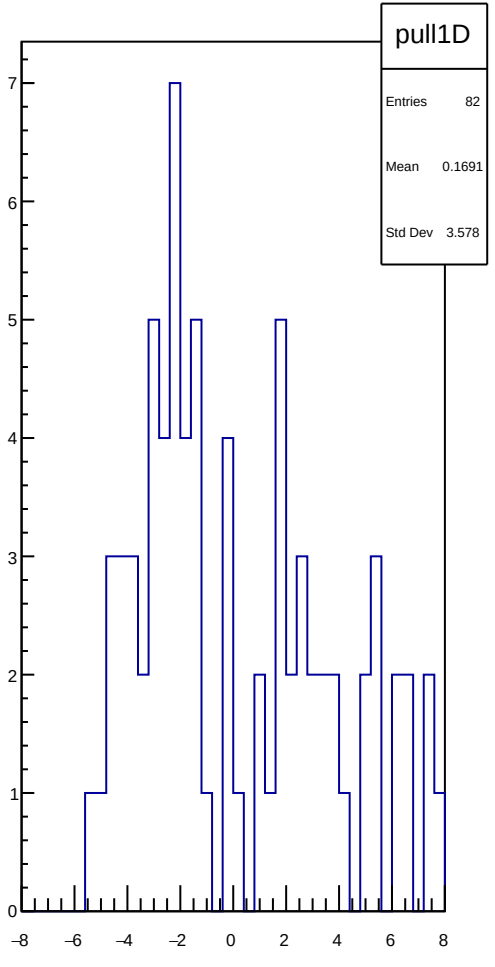

asym_bcm0l02_rms vs run
χ² / ndf 9430 / 81
p0 160.6 ± 0.1261
190
180
170
160
150
140

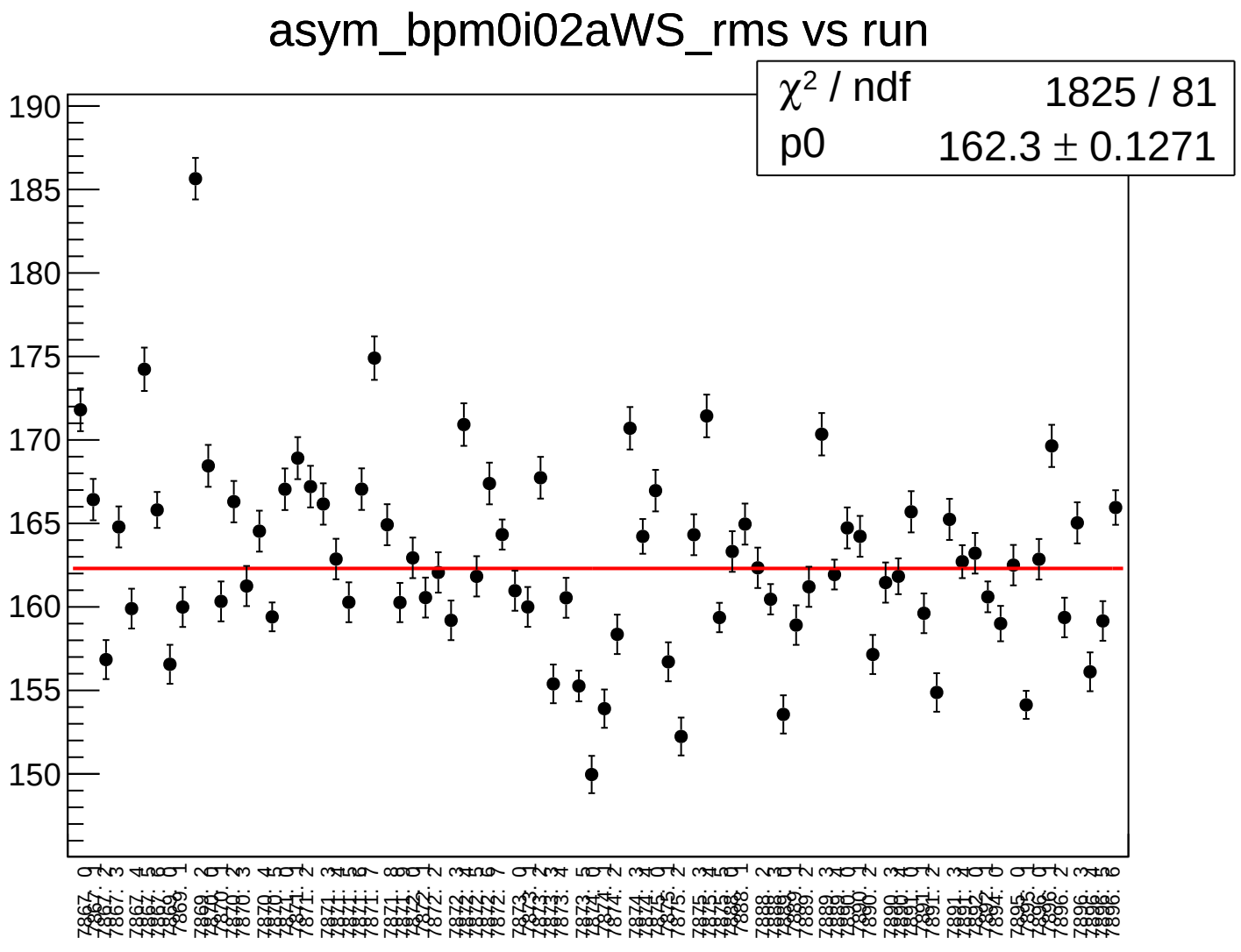

asym_bpm0i02WS_mean vs run
χ² / ndf 1913 / 81
p0 −8557 ± 189.8
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −341.1
Std Dev 0
10
5
0
−5
−10

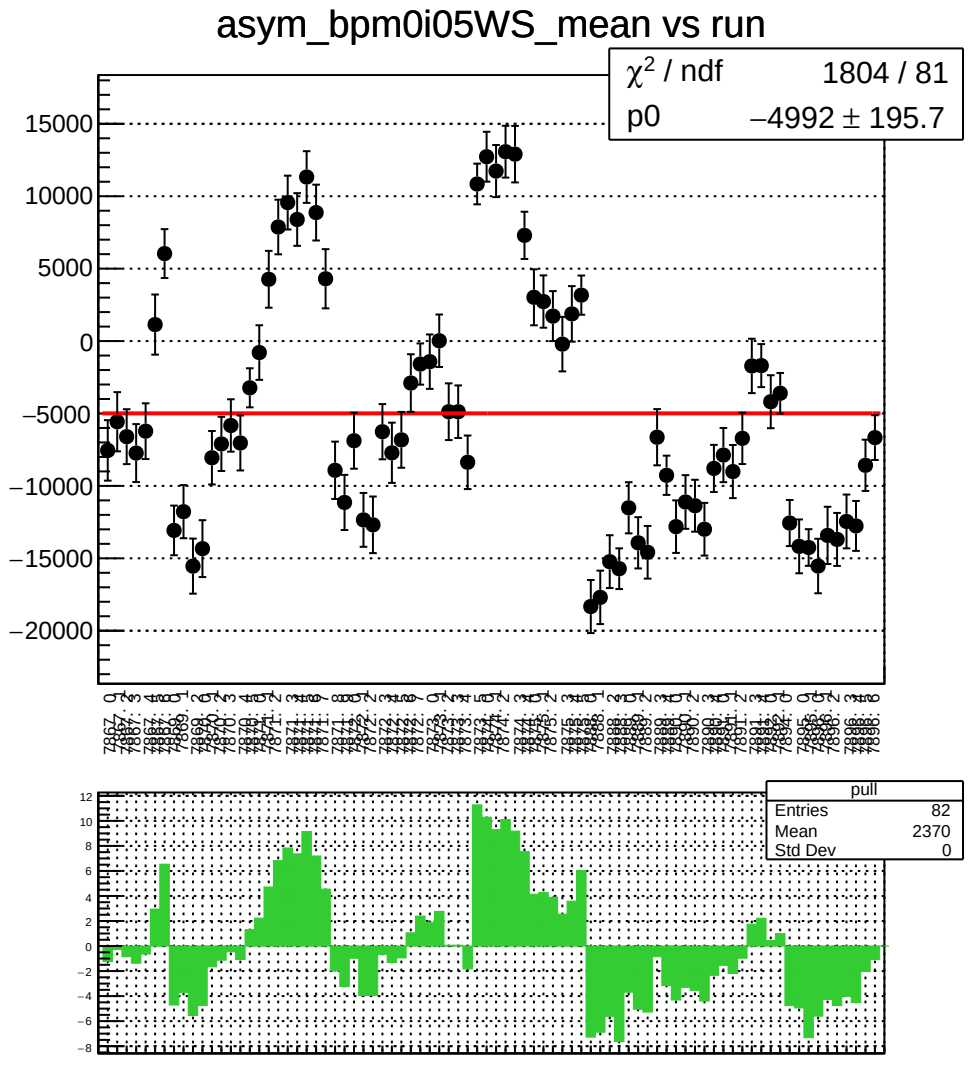

pull1D
Entries 82
Mean 0.0394
Std Dev 3.946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

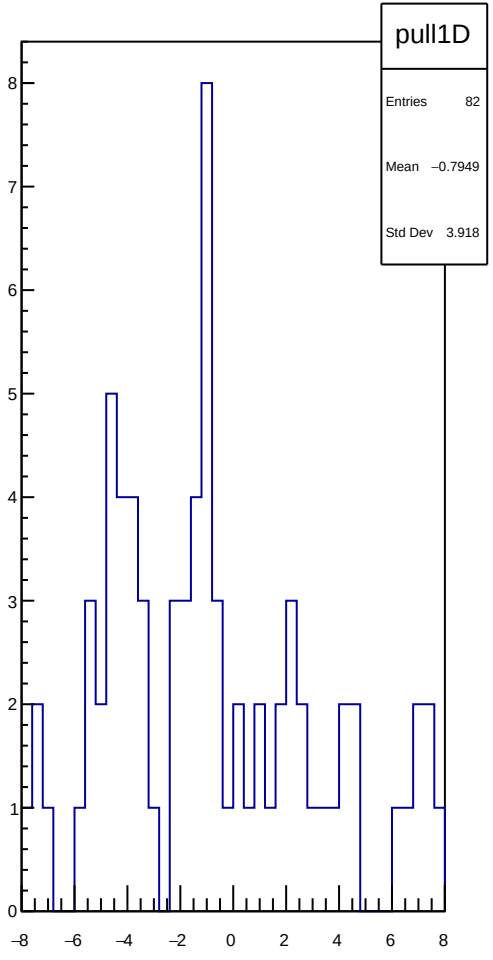

asym_bpm0i02WS_rms vs run
χ² / ndf 3216 / 81
p0 171.3 ± 0.1342
195
190
185
180
175
170
165
160
155

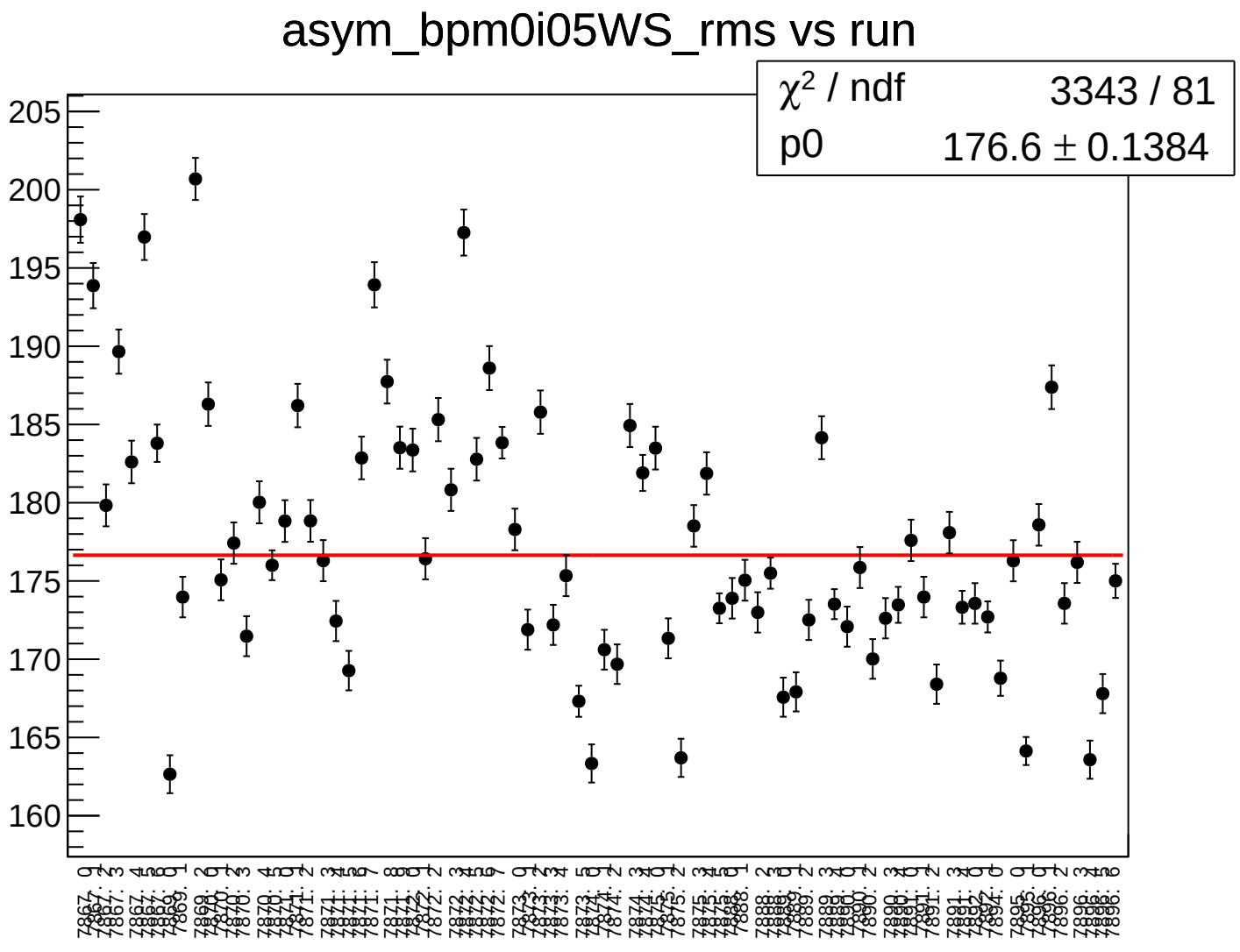

asym_bpm0i02aWS_mean vs run
χ² / ndf 1421 / 81
p0 −8366 ± 179.8
pull
Entries 82
Mean −197.2
Std Dev 0

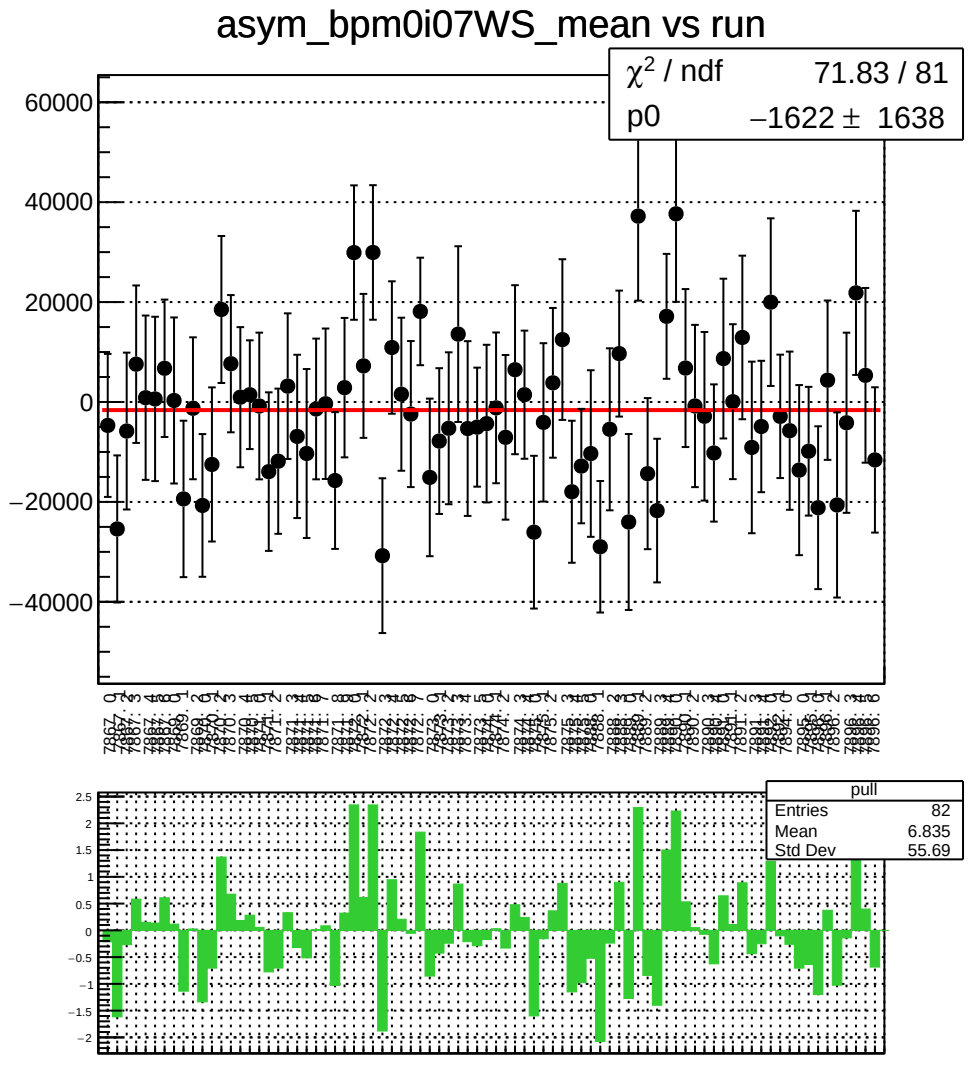

pull1D
Entries 82
Mean 0.1691
Std Dev 3.578

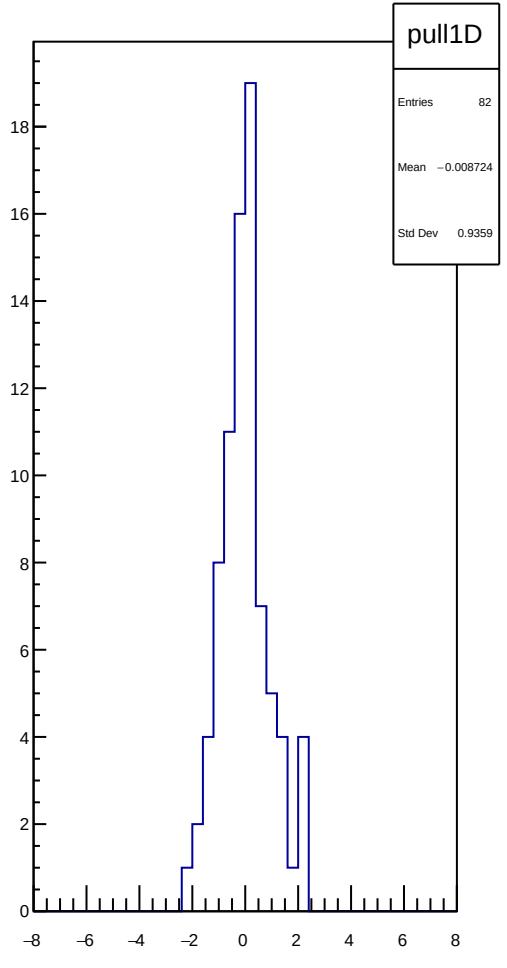

asym_bpm0i02aWS_rms vs run
χ² / ndf 1825 / 81
p0 162.3 ± 0.1271
190
185
180
175
170
165
160
155
150

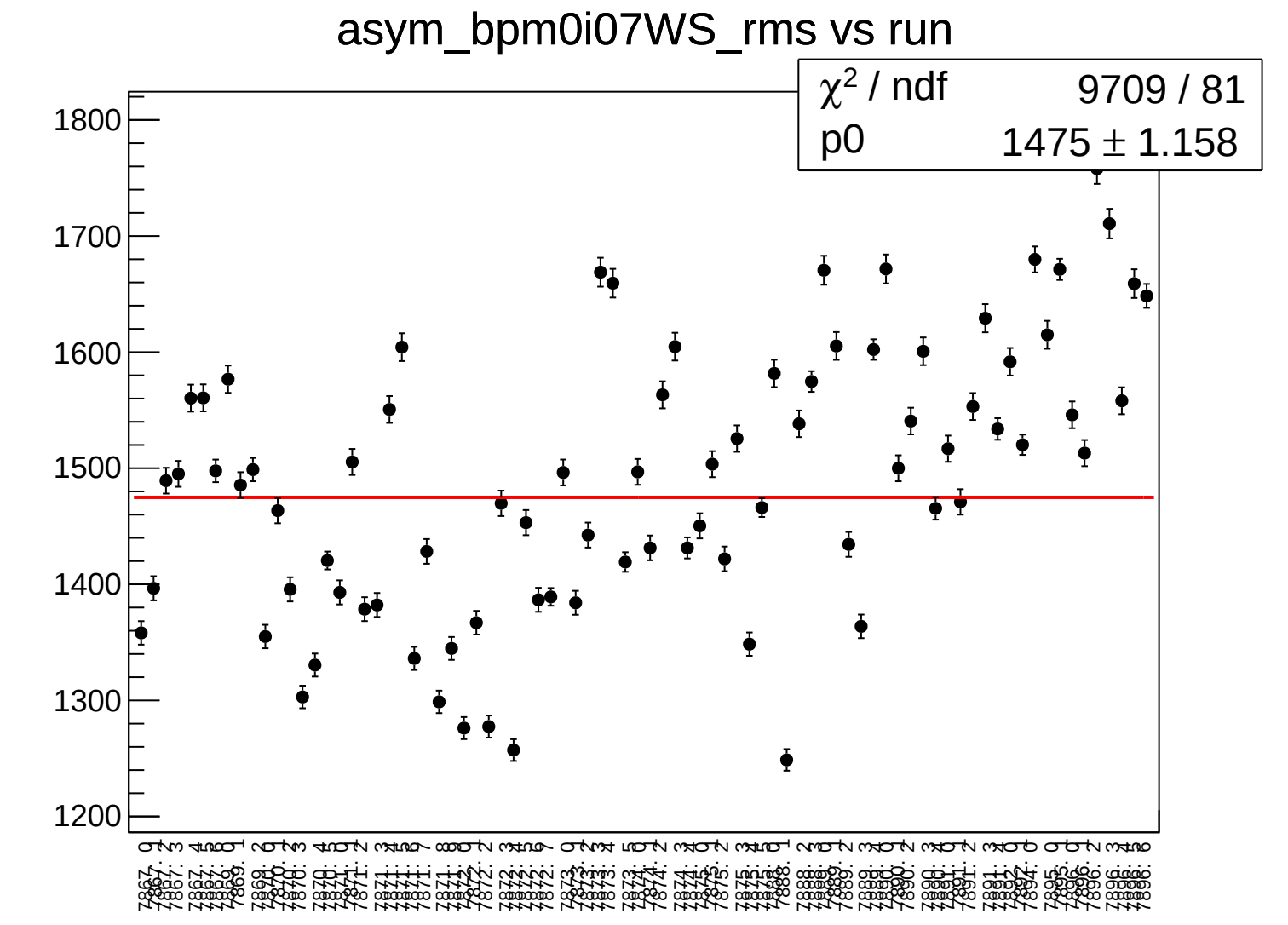

asym_bpm0i05WS_mean vs run
χ² / ndf 1804 / 81
p0 −4992 ± 195.7
pull
Entries 82
Mean 2370
Std Dev 0

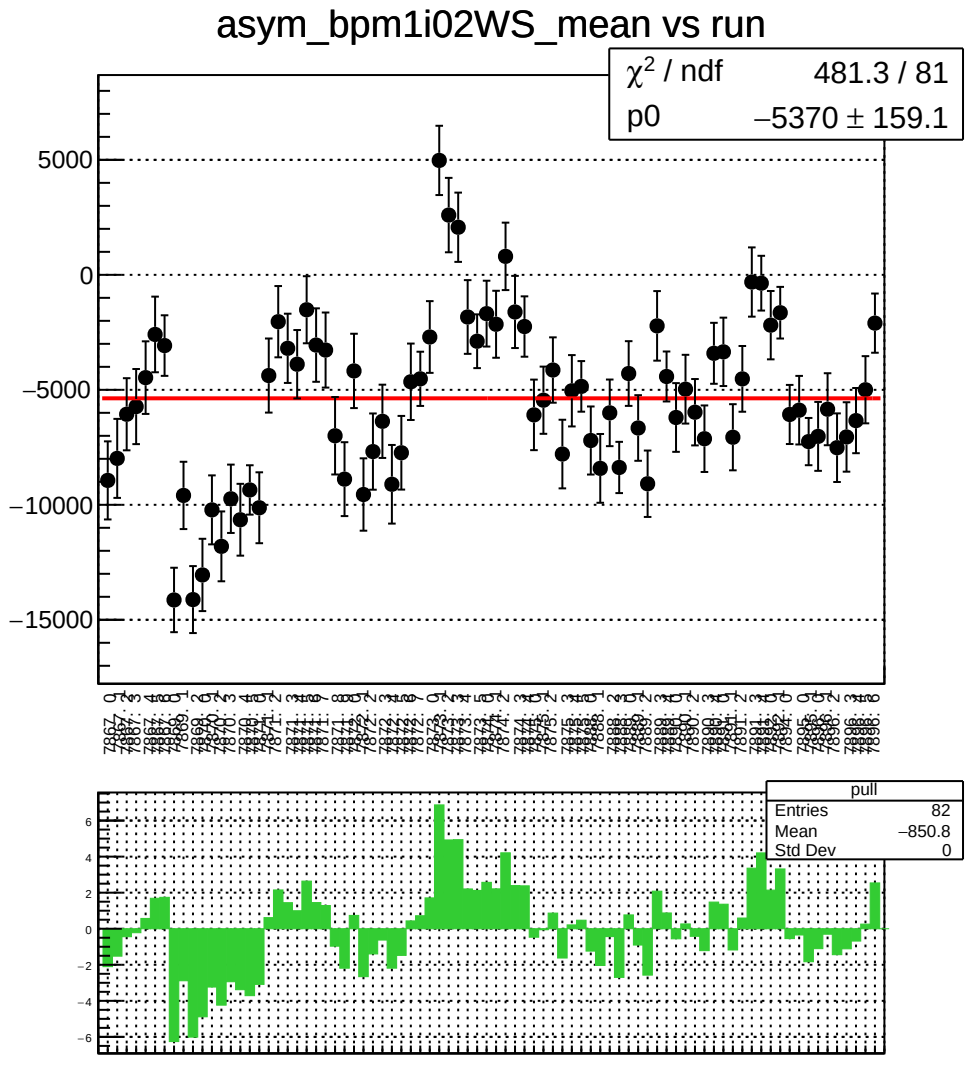

pull1D
Entries 82
Mean −0.7949
Std Dev 3.918

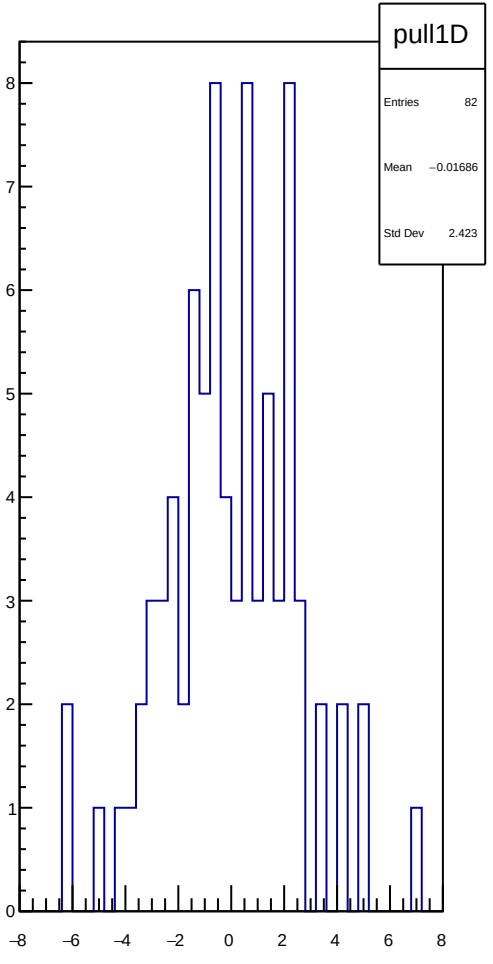

asym_bpm0i05WS_rms vs run
χ² / ndf 3343 / 81
p0 176.6 ± 0.1384
205
200
195
190
185
180
175
170
165
160

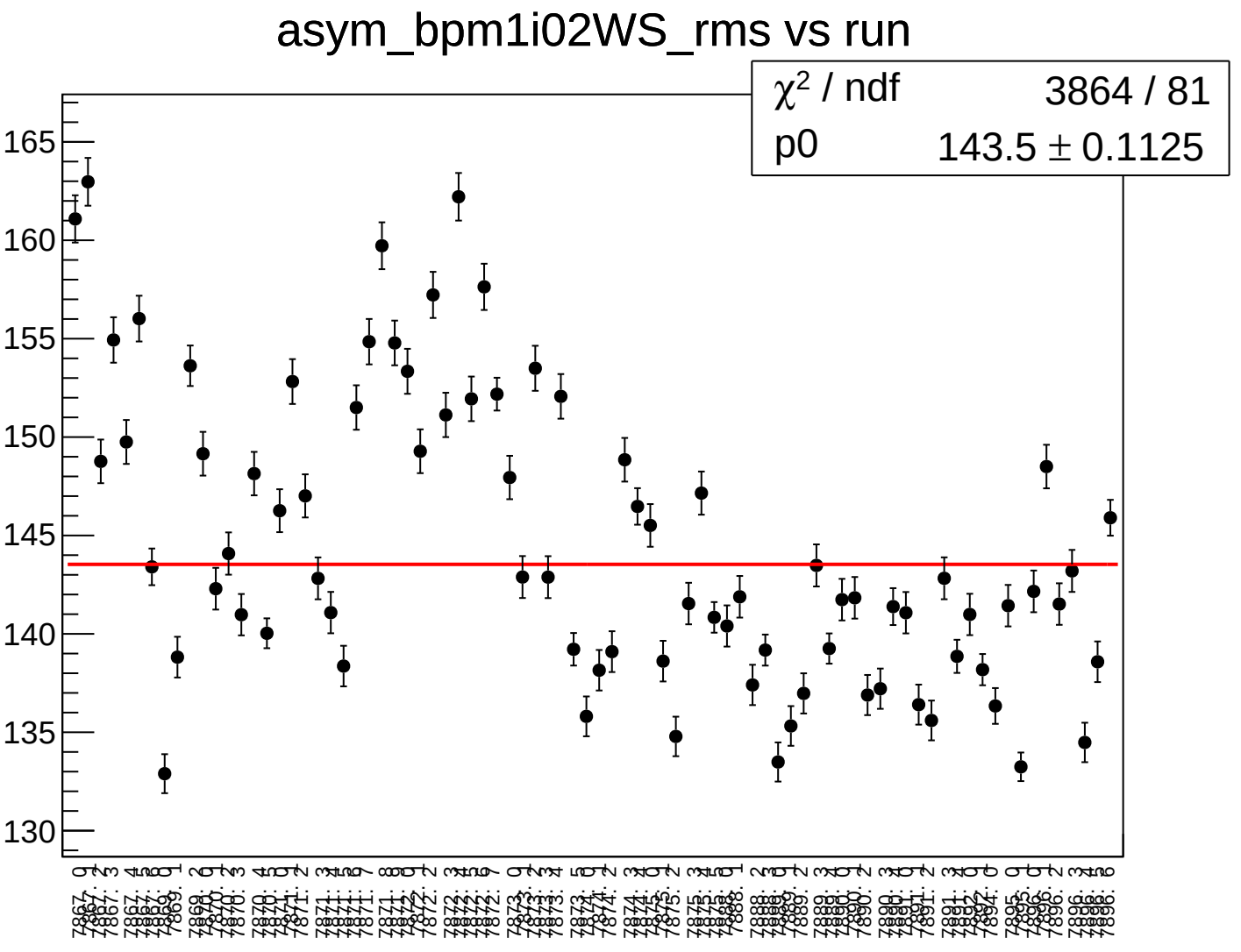

asym_bpm0i07WS_mean vs run
χ² / ndf 71.83 / 81
p0 −1622 ± 1638
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 6.835
Std Dev 55.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

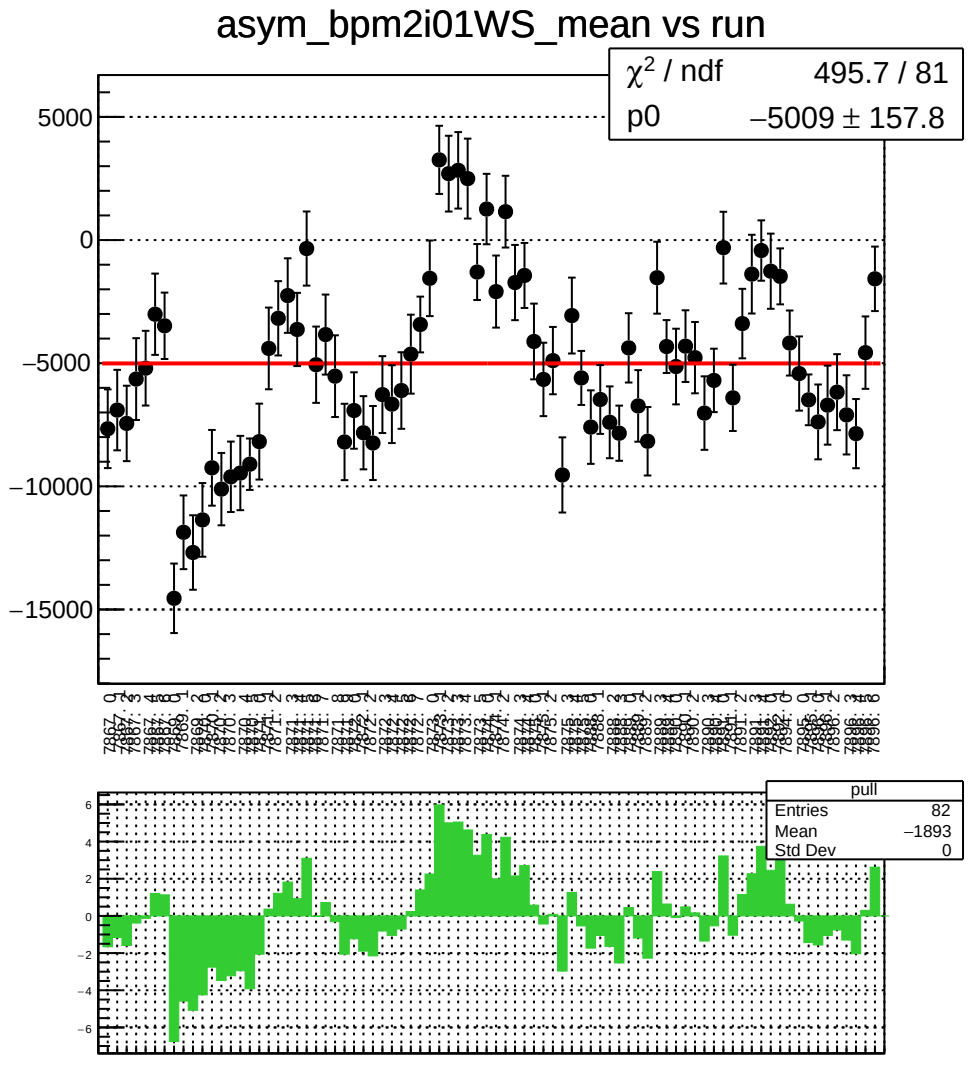

pull1D
Entries 82
Mean −0.008724
Std Dev 0.9359
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

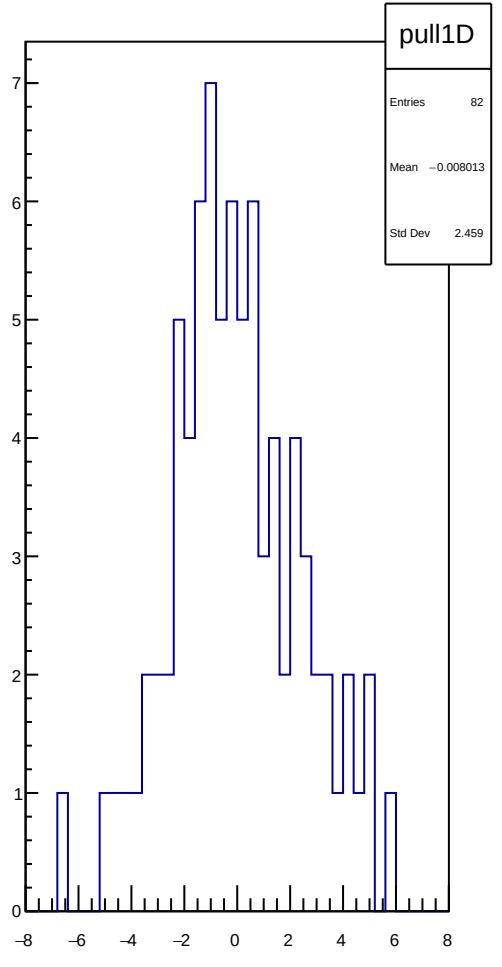

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9709 / 81
p0 1475 ± 1.158
1800
1700
1600
1500
1400
1300
1200

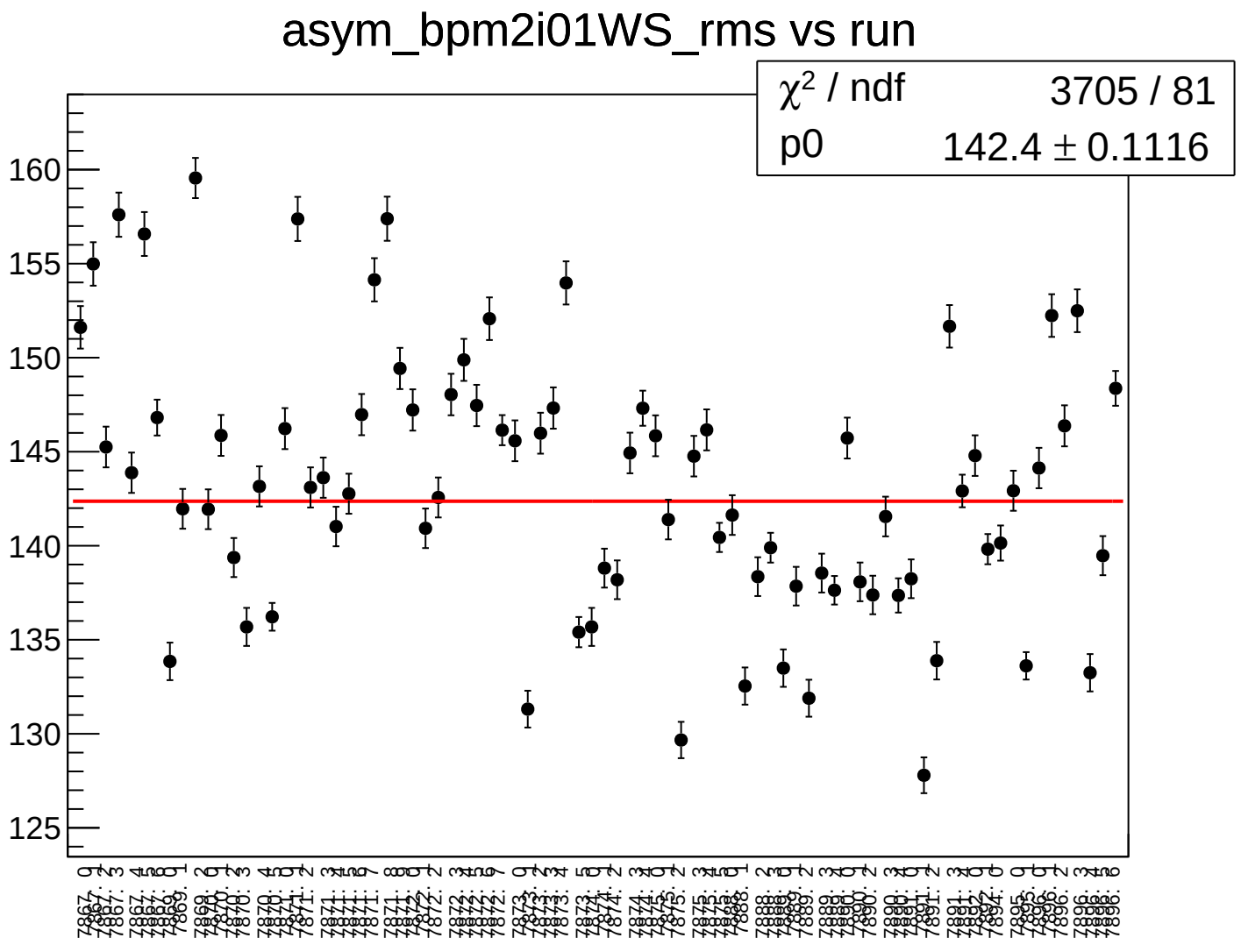

asym_bpm1i02WS_mean vs run
χ² / ndf 481.3 / 81
p0 −5370 ± 159.1
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −850.8
Std Dev 0
6
4
2
0
−2
−4
−6

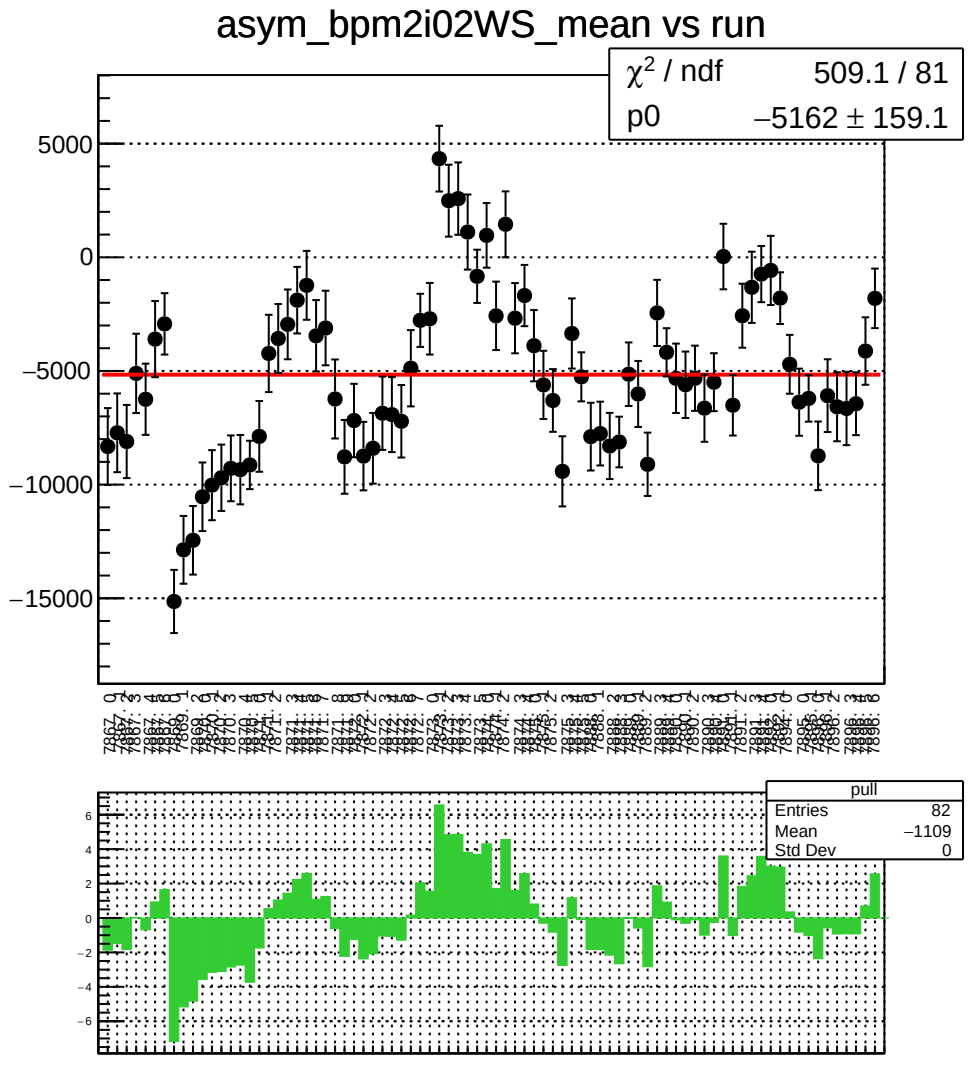

pull1D
Entries 82
Mean −0.01686
Std Dev 2.423
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

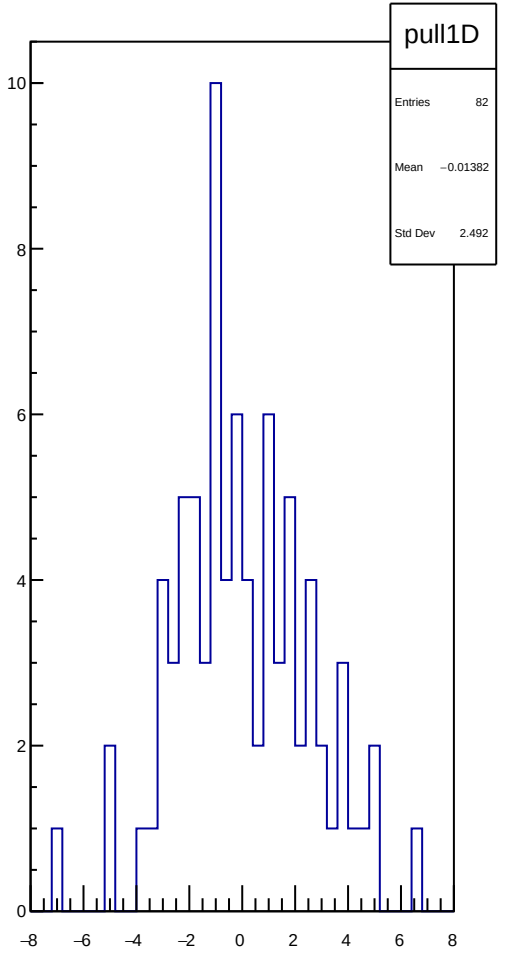

asym_bpm1i02WS_rms vs run
χ² / ndf 3864 / 81
p0 143.5 ± 0.1125
165
160
155
150
145
140
135
130

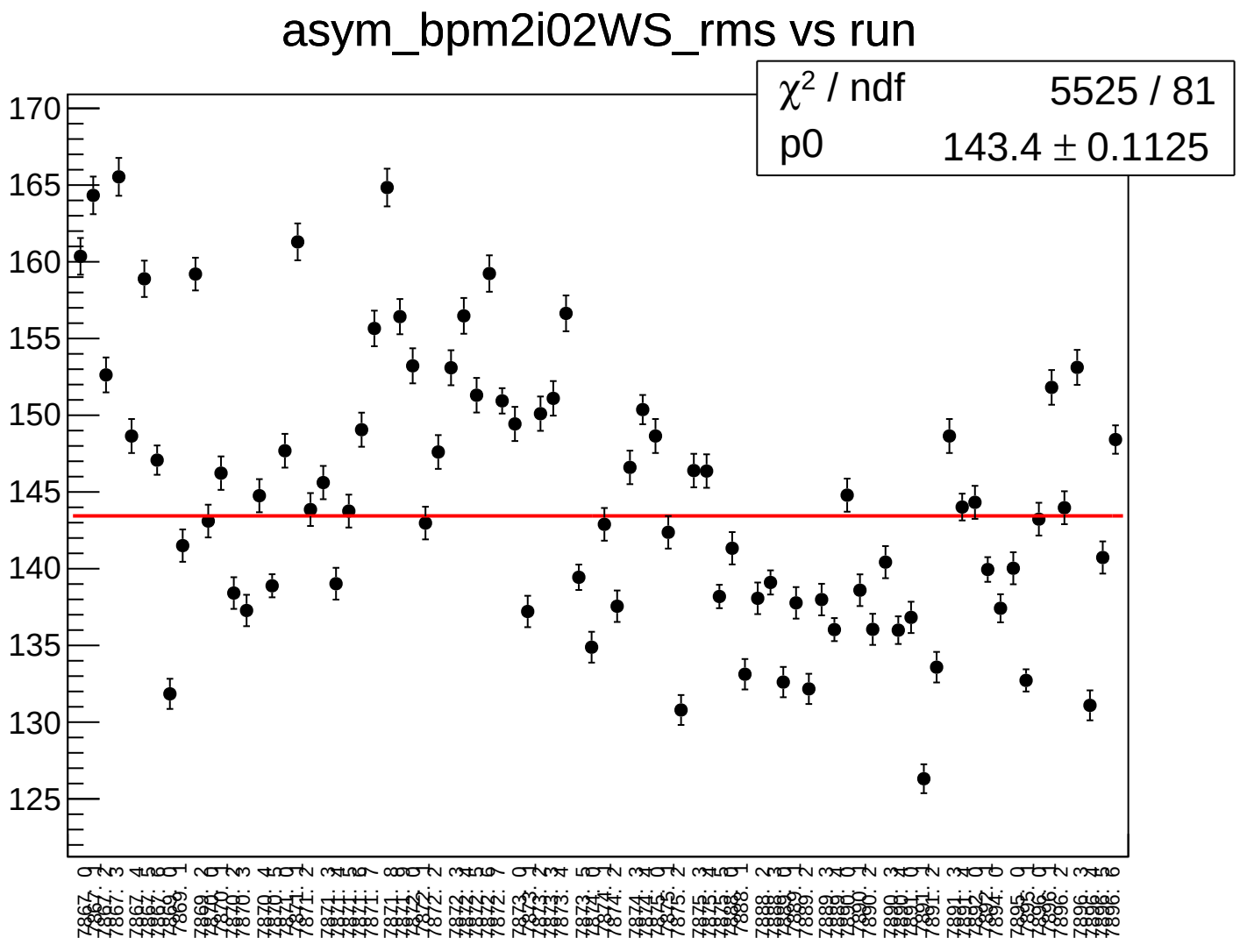

asym_bpm2i01WS_mean vs run
χ^2 / ndf 495.7 / 81
p0 −5009 ± 157.8
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −1893
Std Dev 0
6
4
2
0
−2
−4
−6

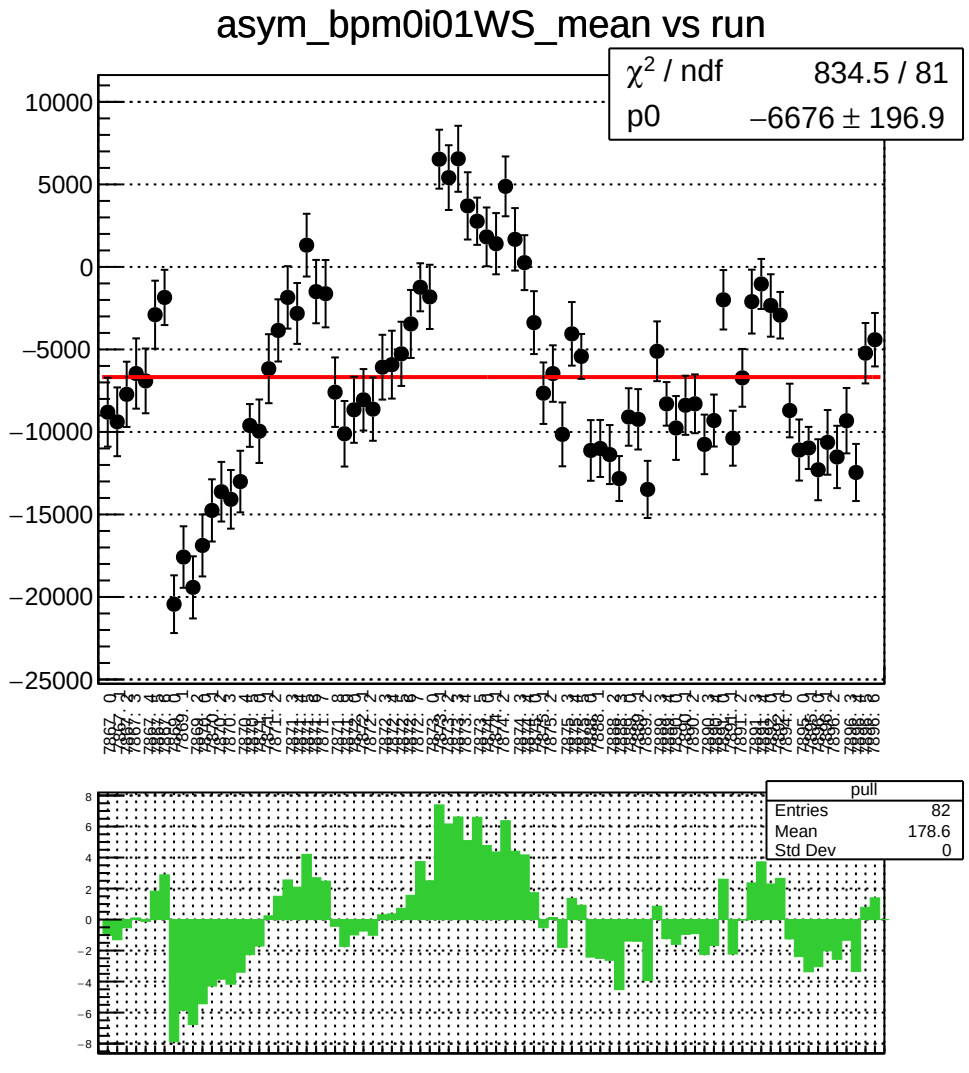

pull1D
Entries 82
Mean −0.008013
Std Dev 2.459
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

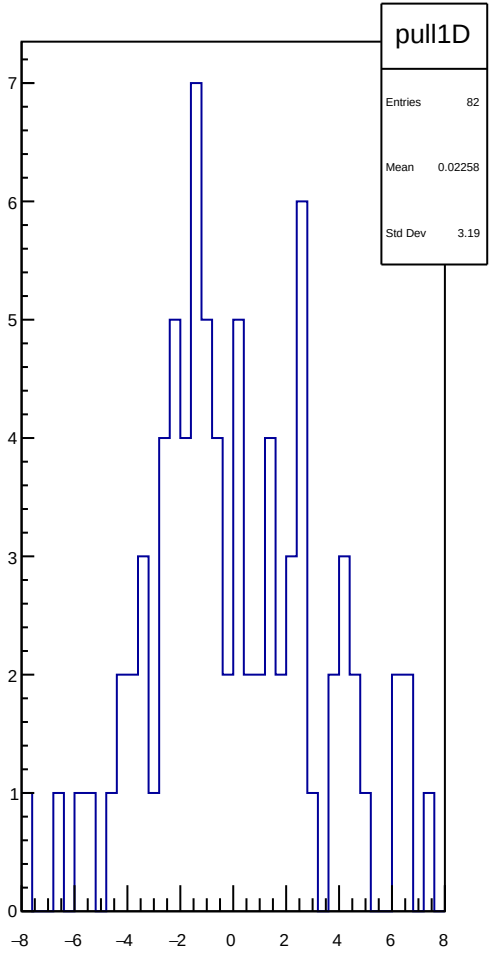

asym_bpm2i01WS_rms vs run
χ² / ndf 3705 / 81
p0 142.4 ± 0.1116
160
155
150
145
140
135
130
125

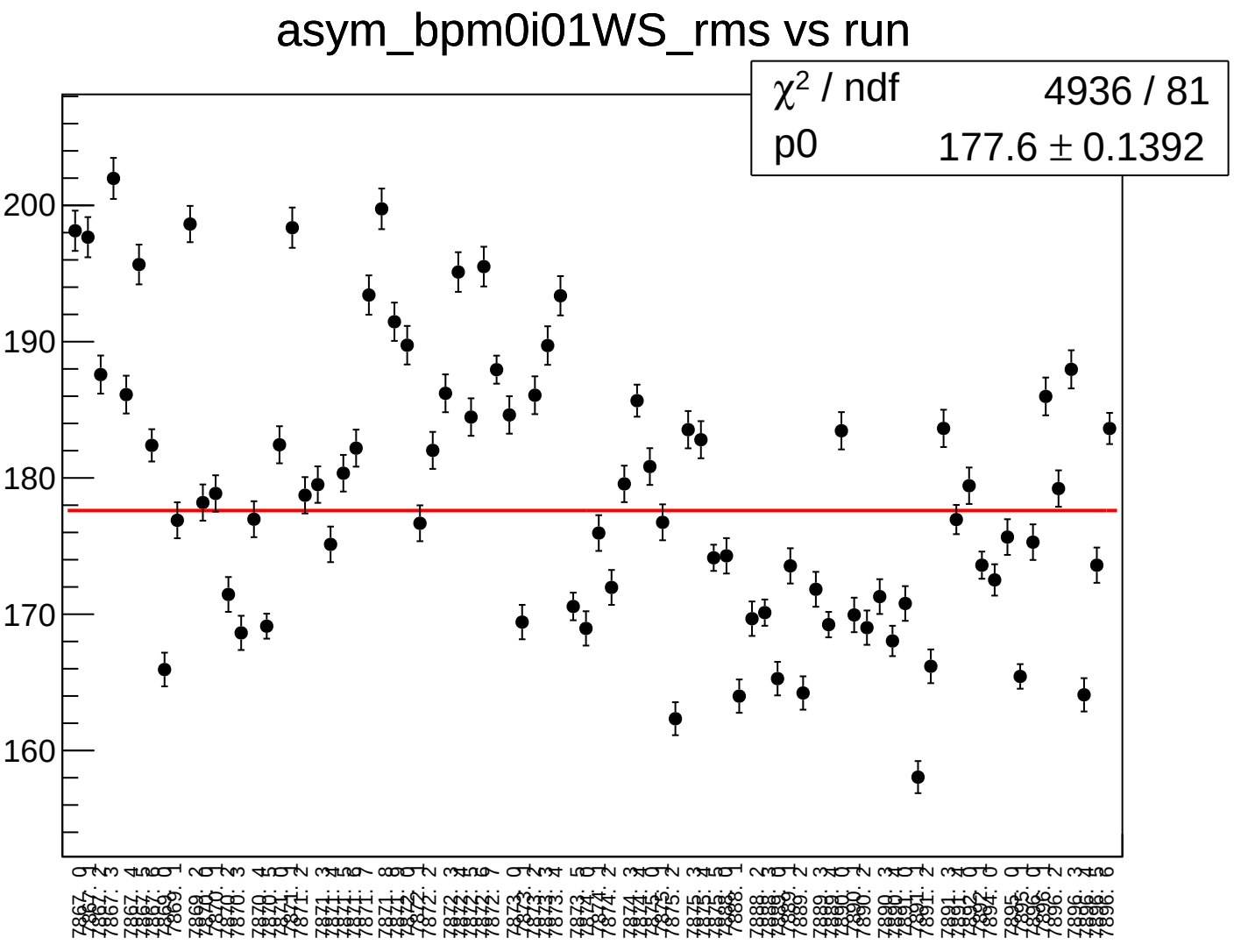

asym_bpm2i02WS_mean vs run
χ² / ndf 509.1 / 81
p0 −5162 ± 159.1
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −1109
Std Dev 0
6
4
2
0
−2
−4
−6

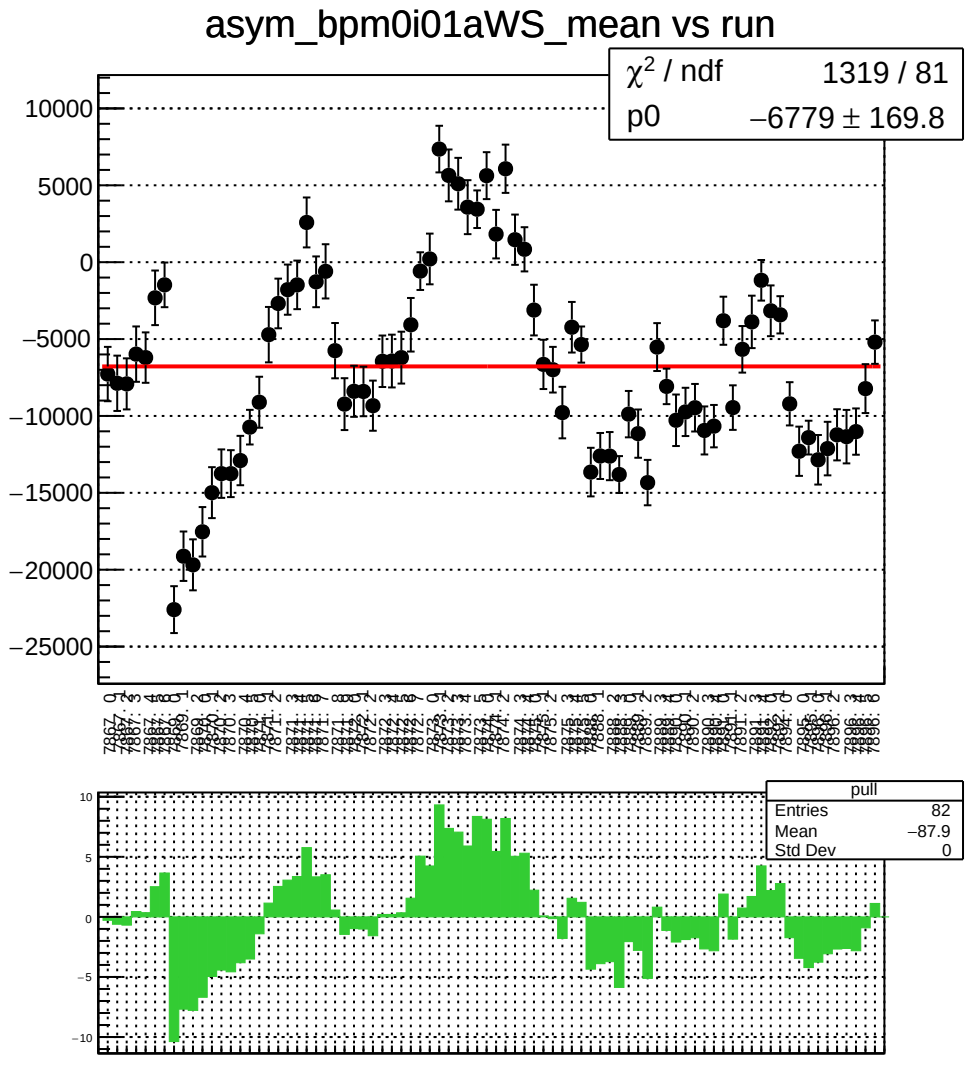

pull1D
Entries 82
Mean −0.01382
Std Dev 2.492
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

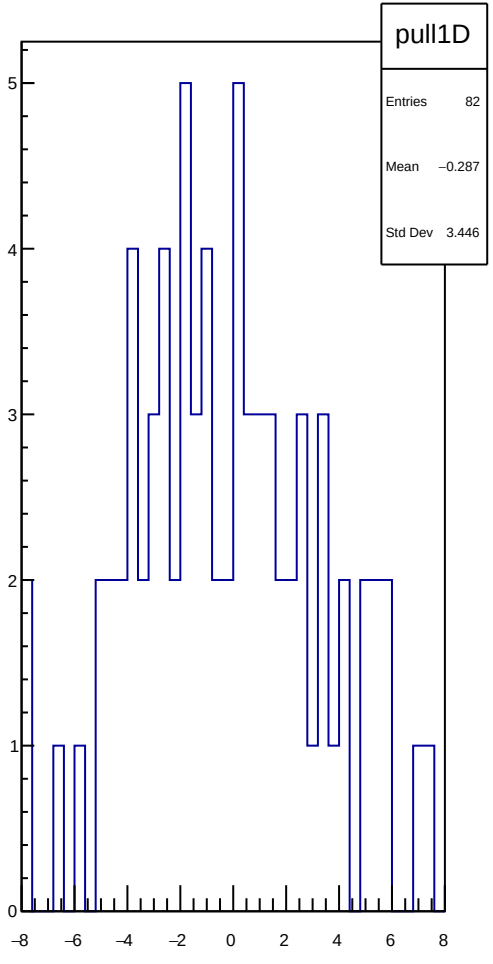

asym_bpm2i02WS_rms vs run
χ² / ndf 5525 / 81
p0 143.4 ± 0.1125
170
165
160
155
150
145
140
135
130
125

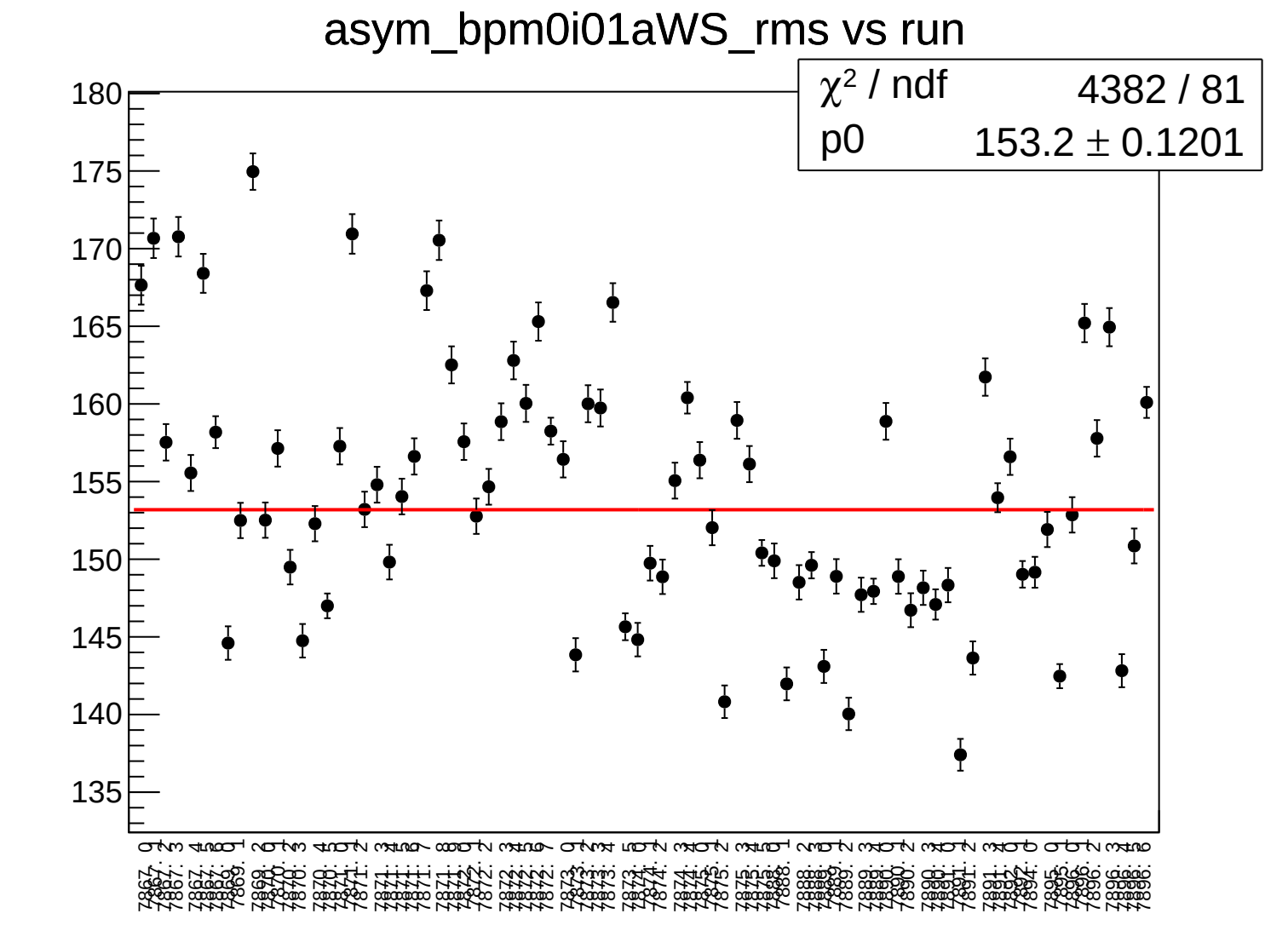

asym_bpm0i01WS_mean vs run
χ² / ndf 834.5 / 81
p0 −6676 ± 196.9
pull
Entries 82
Mean 178.6
Std Dev 0

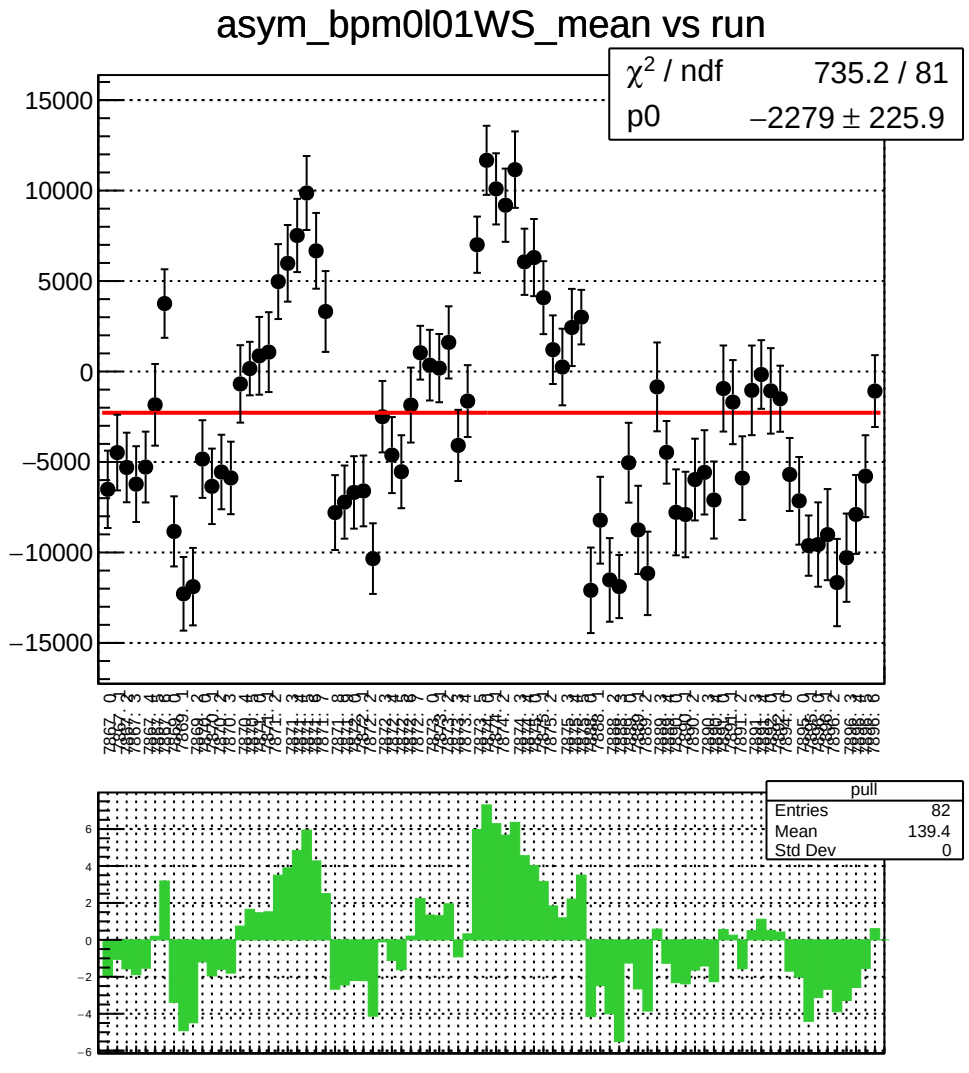

pull1D
Entries 82
Mean 0.02258
Std Dev 3.19

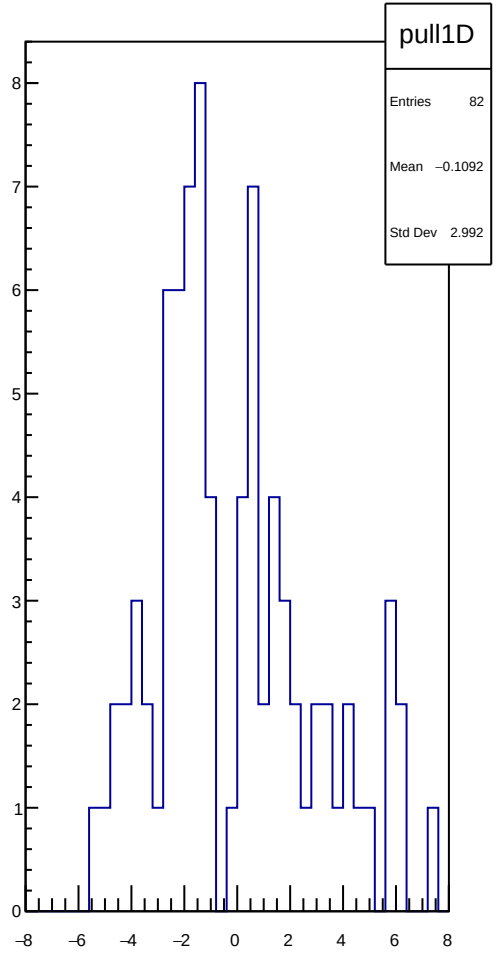

asym_bpm0i01WS_rms vs run
χ² / ndf 4936 / 81
p0 177.6 ± 0.1392
200
190
180
170
160

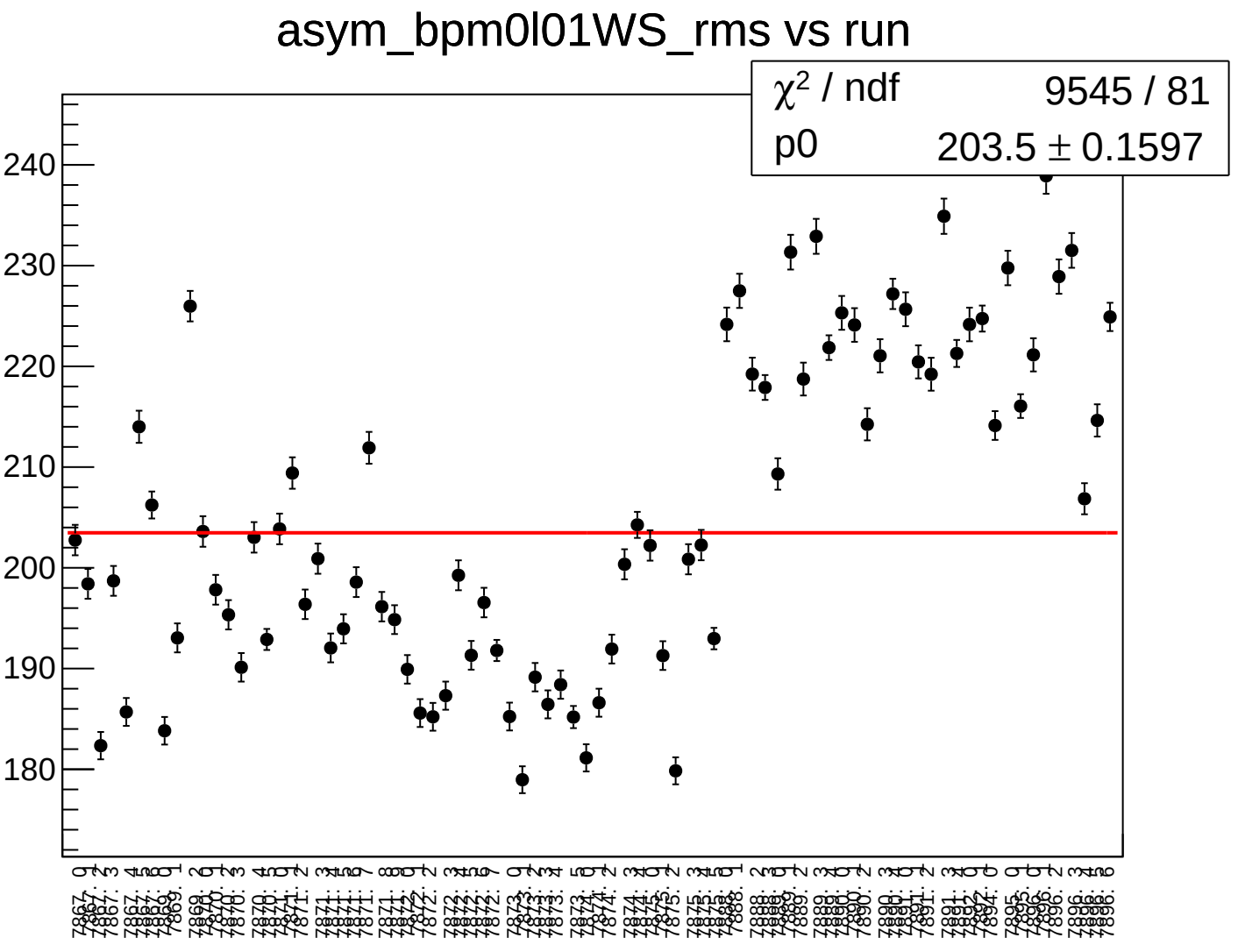

asym_bpm0i01aWS_mean vs run
χ² / ndf 1319 / 81
p0 −6779 ± 169.8
pull
Entries 82
Mean −87.9
Std Dev 0

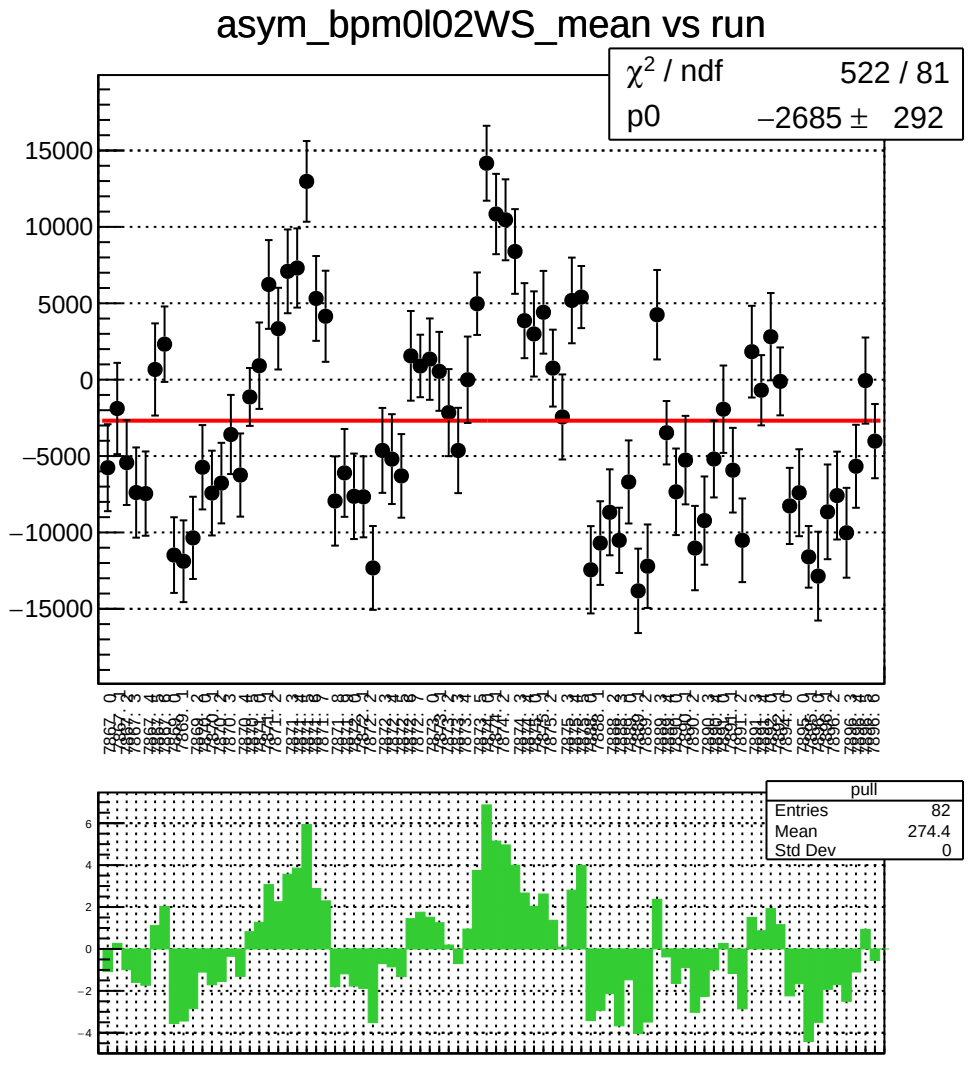

pull1D
Entries 82
Mean −0.287
Std Dev 3.446

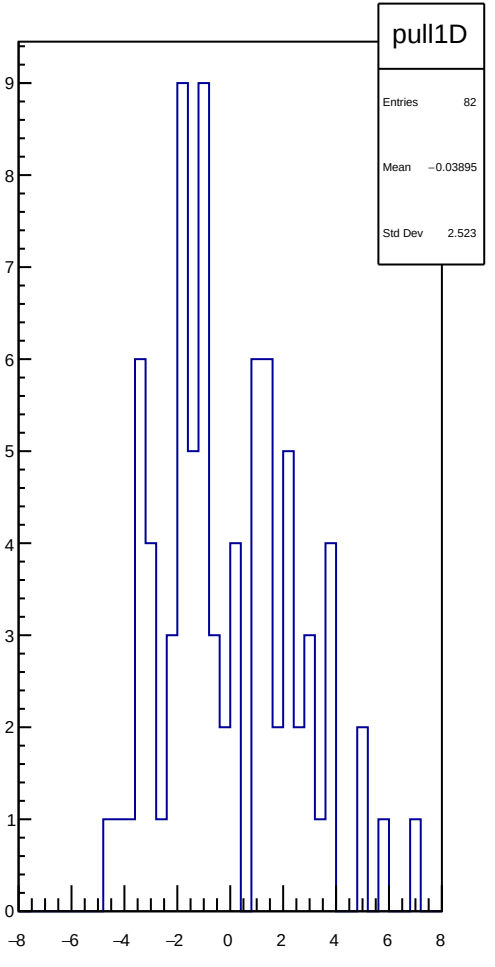

asym_bpm0i01aWS_rms vs run
χ² / ndf 4382 / 81
p0 153.2 ± 0.1201
180
175
170
165
160
155
150
145
140
135

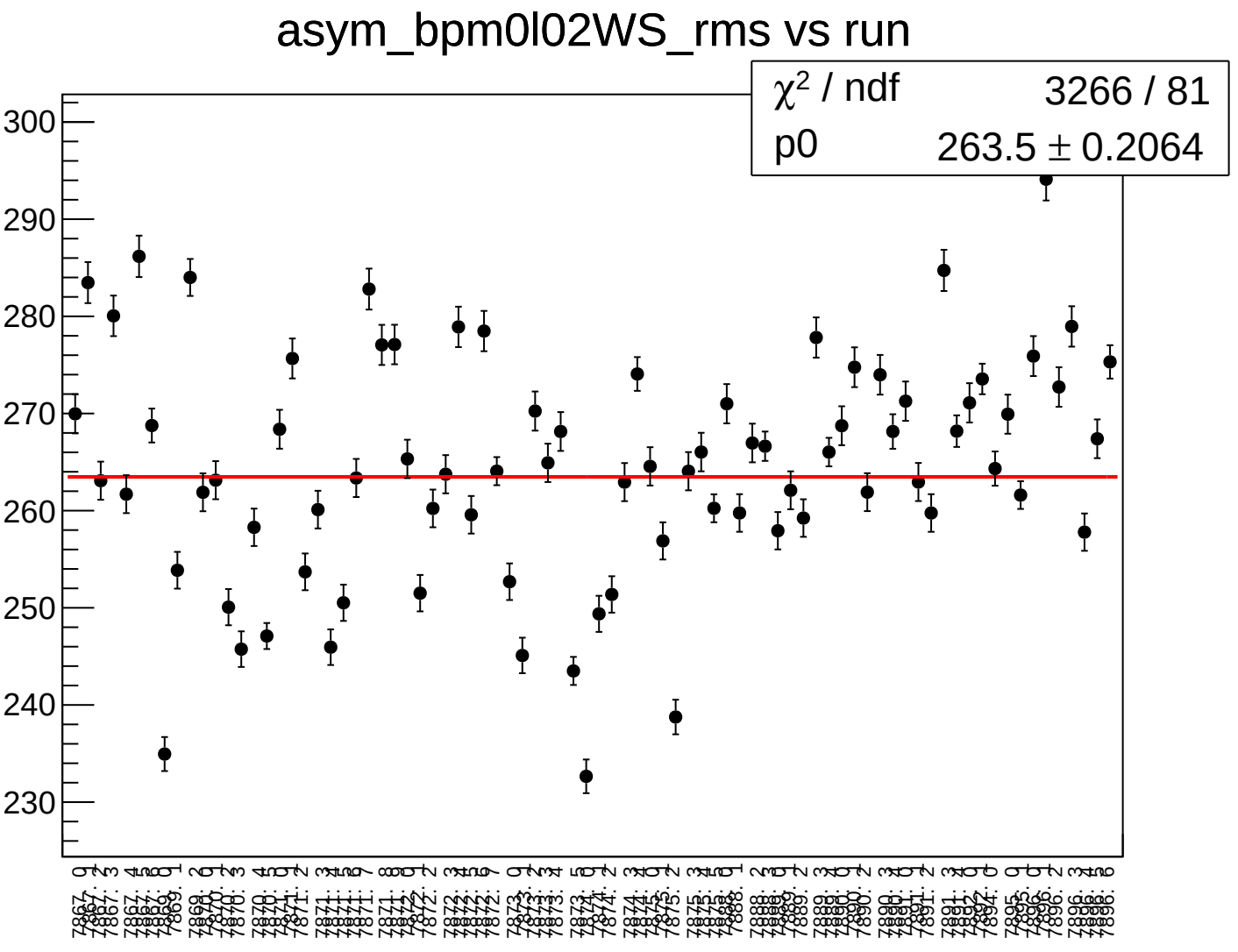

asym_bpm0l01WS_mean vs run
χ² / ndf 735.2 / 81
p0 −2279 ± 225.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 139.4
Std Dev 0
6
4
2
0
−2
−4
−6

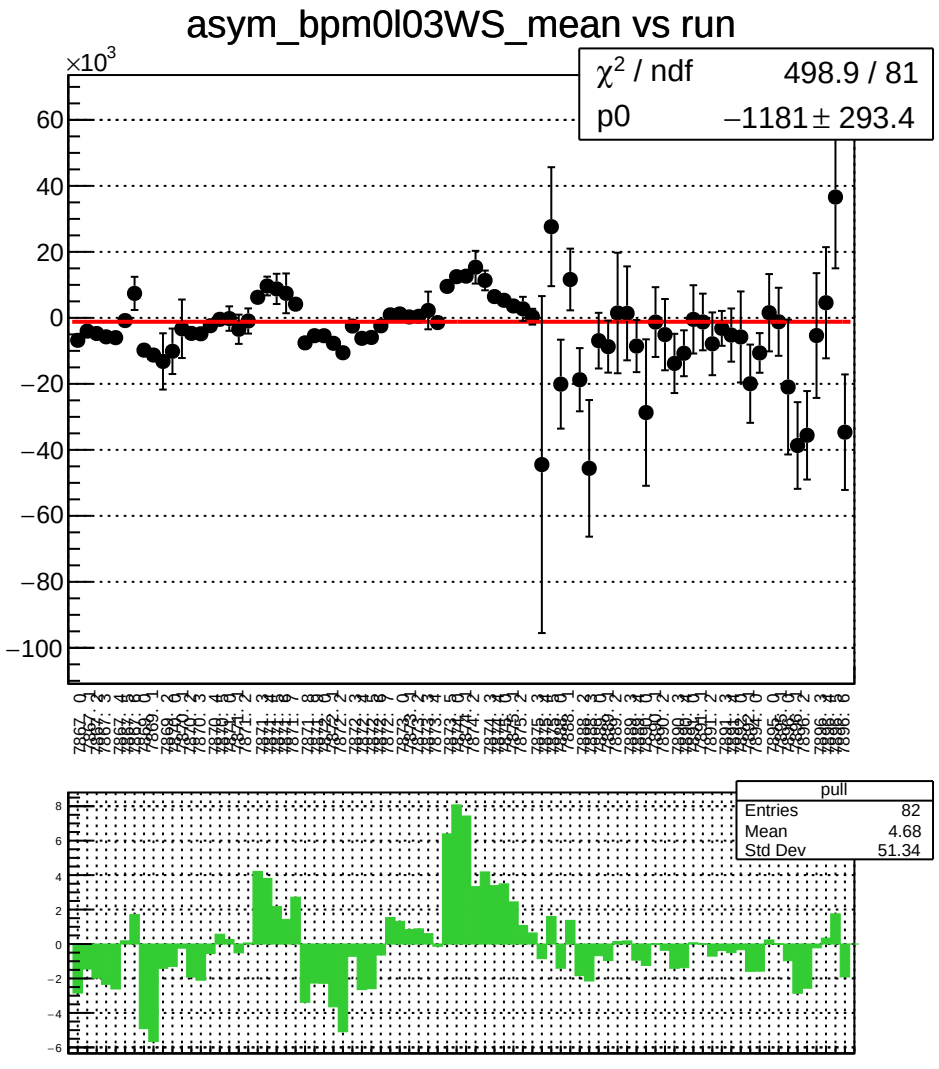

pull1D
Entries 82
Mean −0.1092
Std Dev 2.992
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

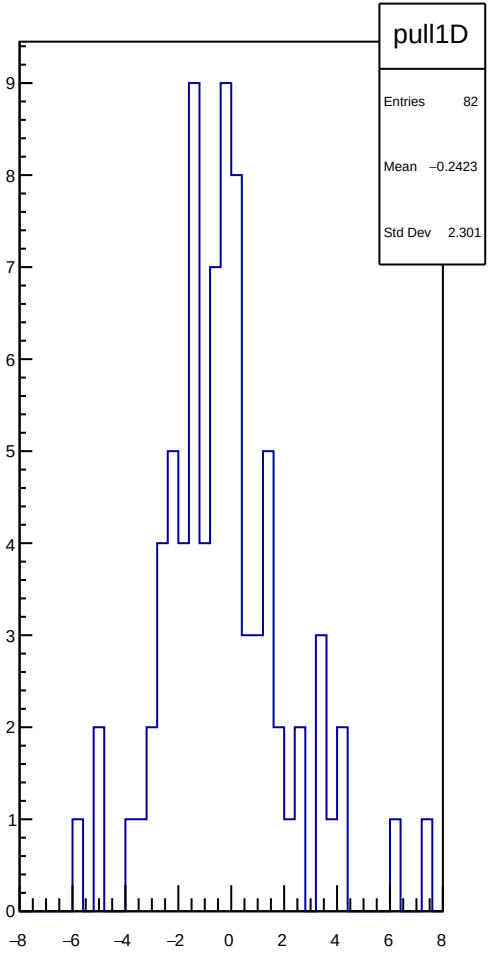

asym_bpm0l01WS_rms vs run
χ² / ndf 9545 / 81
p0 203.5 ± 0.1597
240
230
220
210
200
190
180

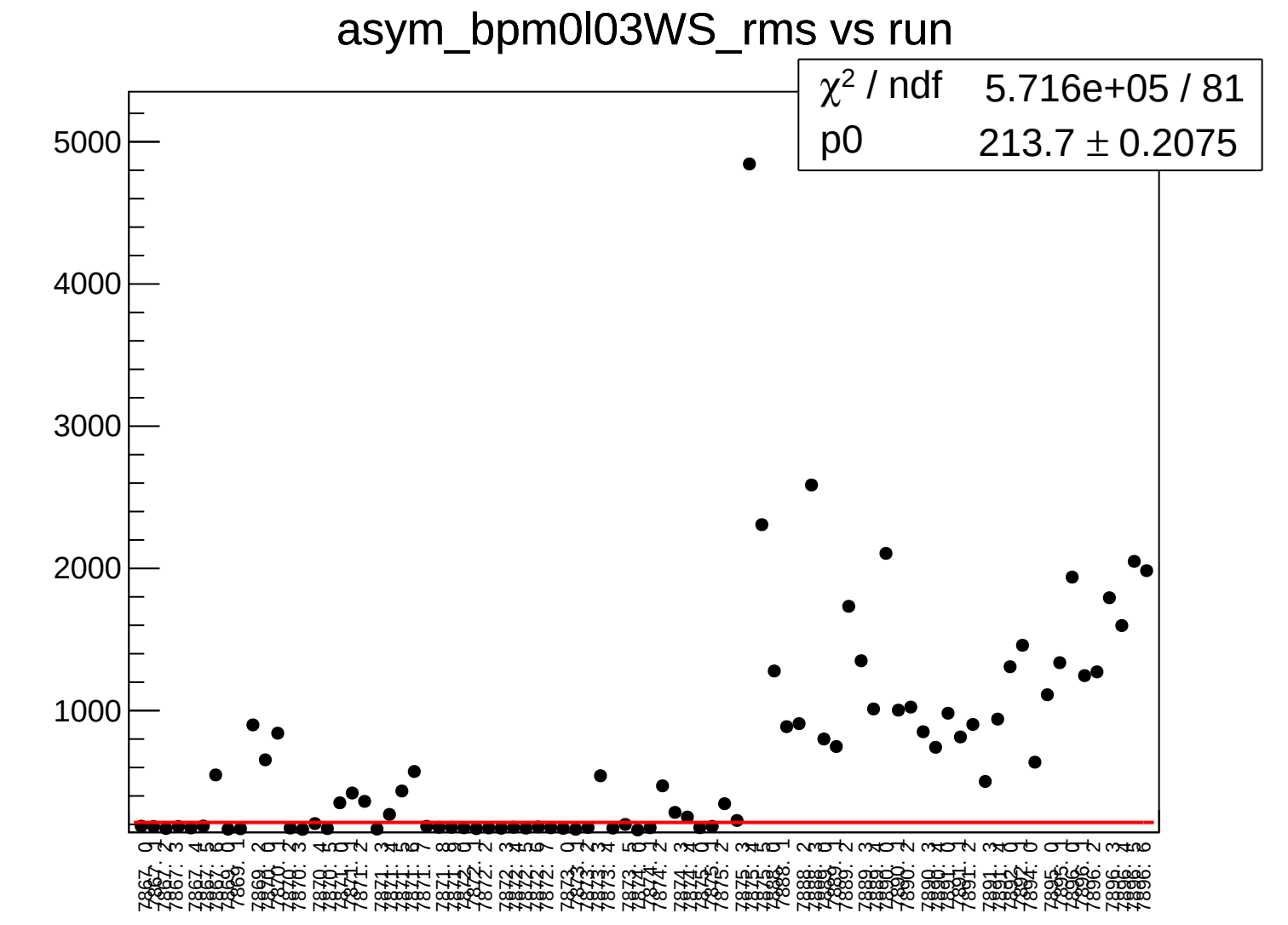

asym_bpm0l02WS_mean vs run
χ² / ndf 522 / 81
p0 −2685 ± 292
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 274.4
Std Dev 0
6
4
2
0
−2
−4

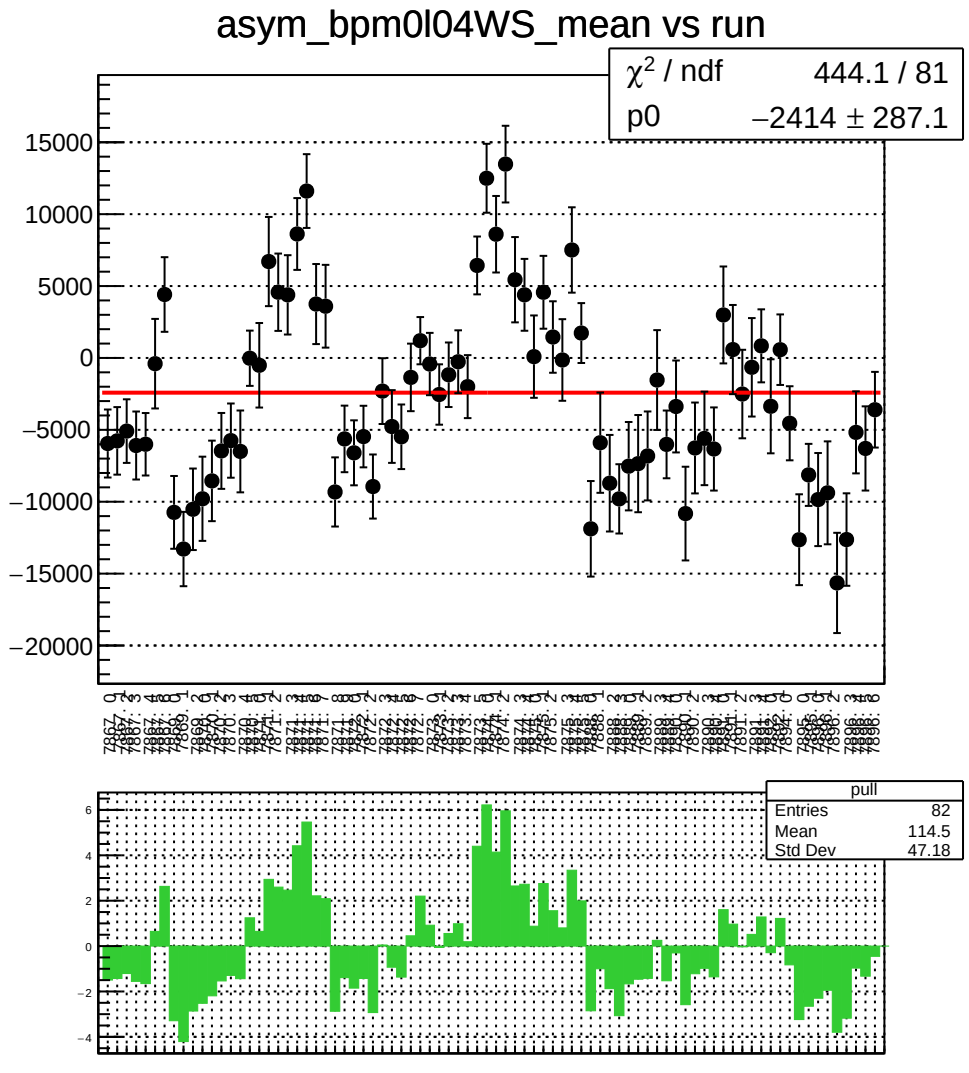

pull1D
Entries 82
Mean −0.03895
Std Dev 2.523
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

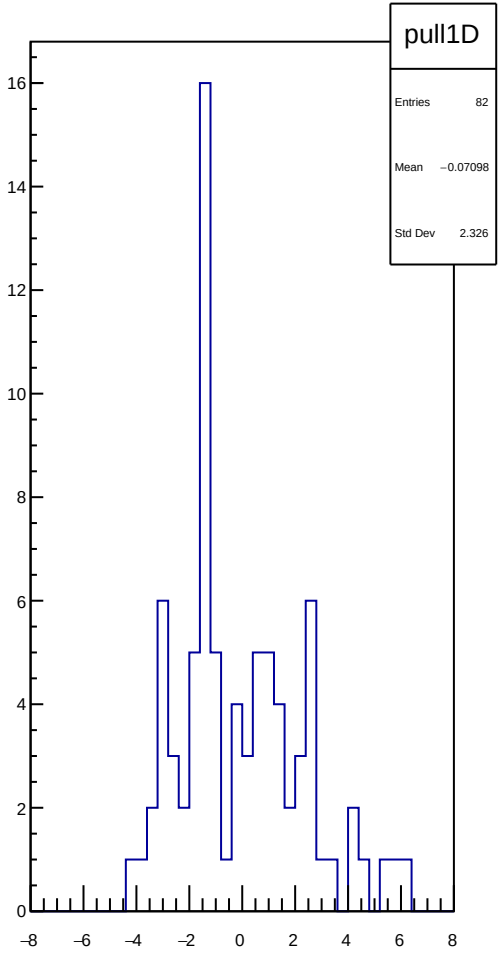

asym_bpm0l02WS_rms vs run
χ² / ndf 3266 / 81
p0 263.5 ± 0.2064
300
290
280
270
260
250
240
230

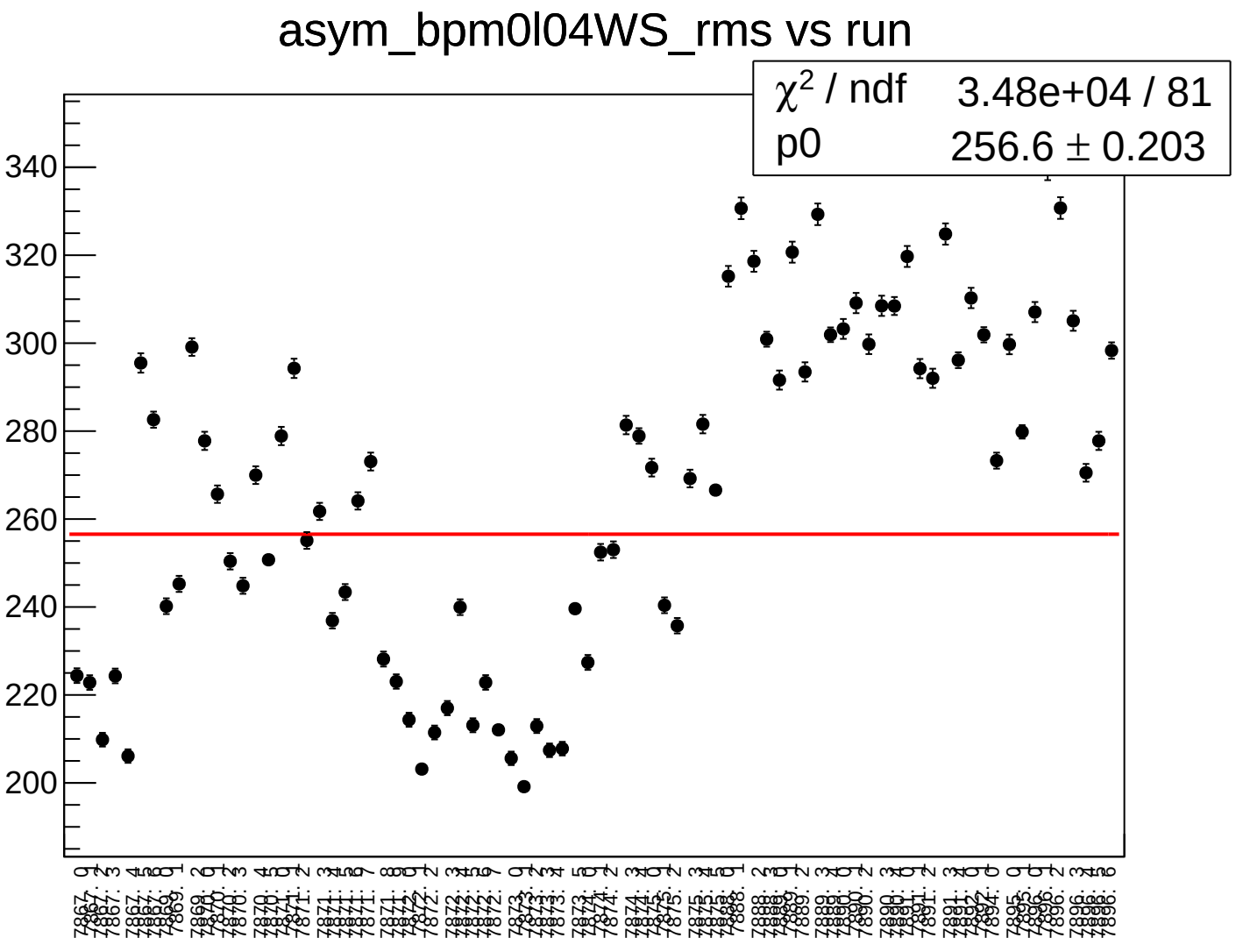

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 498.9 / 81
p0 −1181 ± 293.4
pull
Entries 82
Mean 4.68
Std Dev 51.34

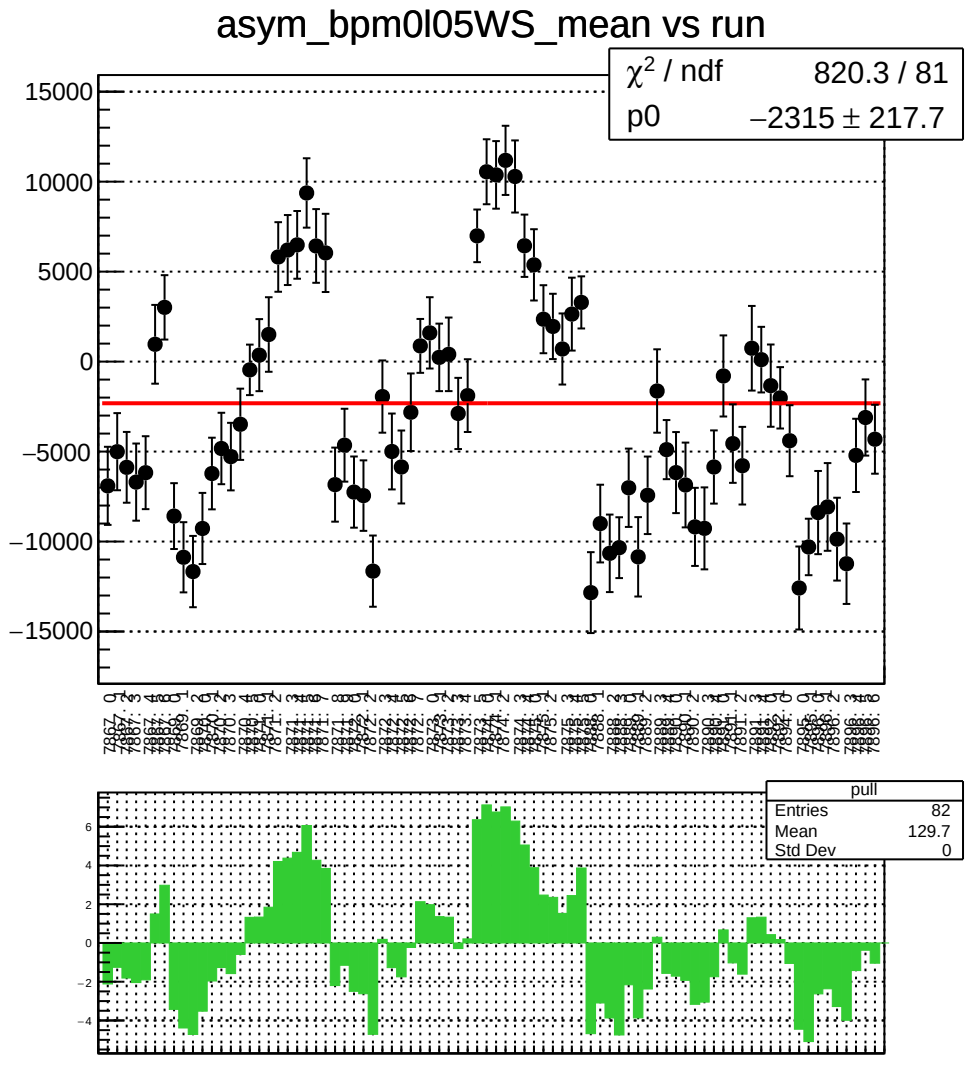

pull1D
Entries 82
Mean −0.2423
Std Dev 2.301

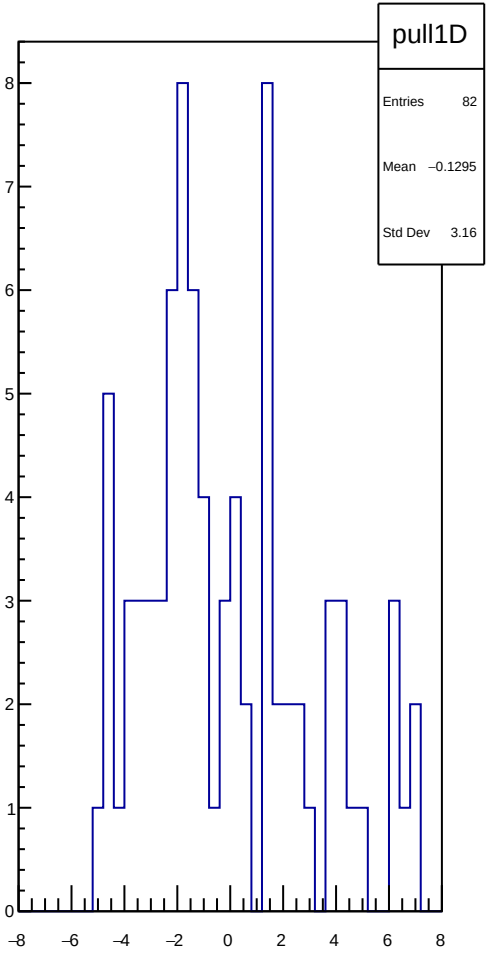

asym_bpm0l03WS_rms vs run
χ^2 / ndf 5.716e+05 / 81
p0 213.7 ± 0.2075
5000
4000
3000
2000
1000

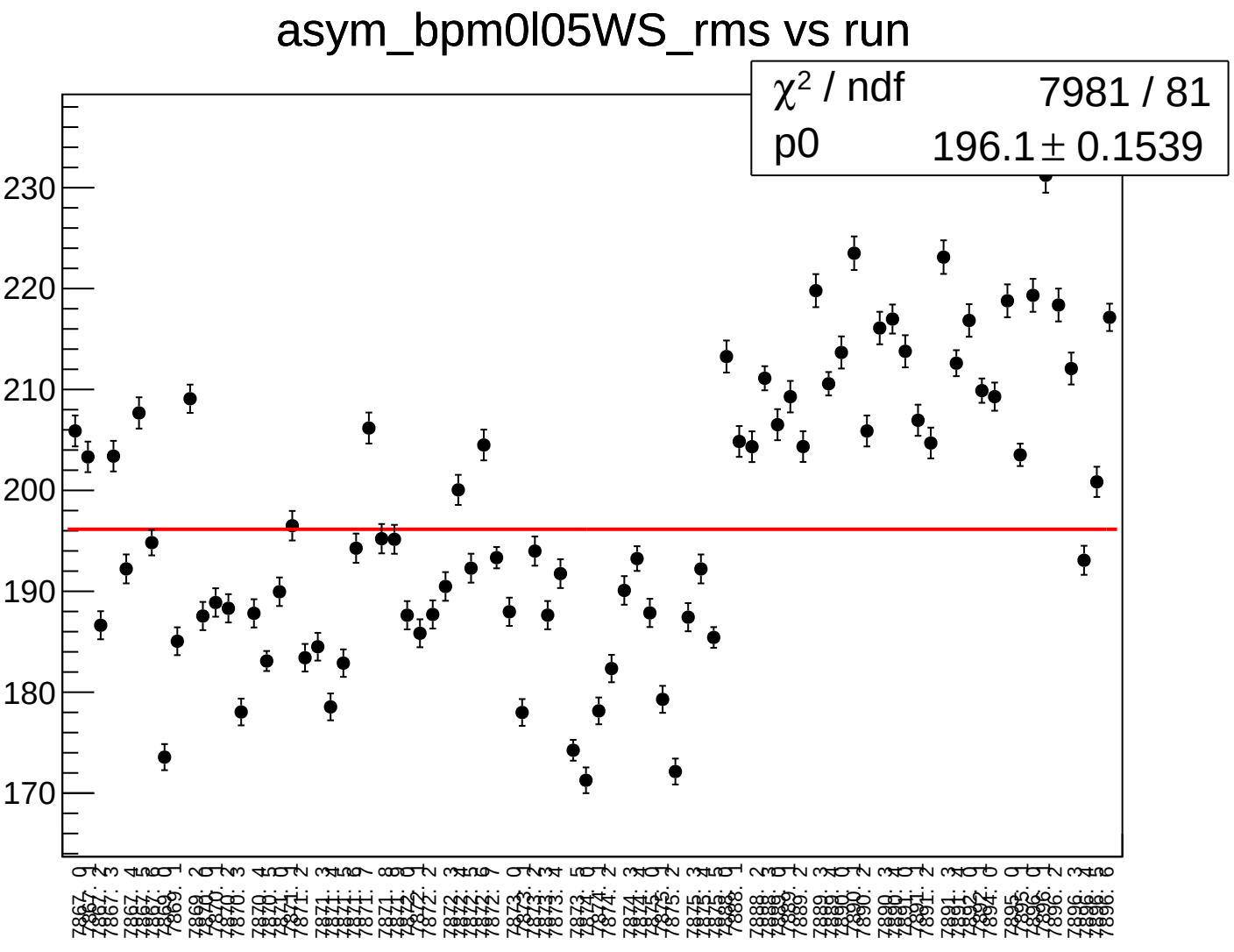

asym_bpm0l04WS_mean vs run
χ² / ndf 444.1 / 81
p0 −2414 ± 287.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 114.5
Std Dev 47.18
6
4
2
0
−2
−4

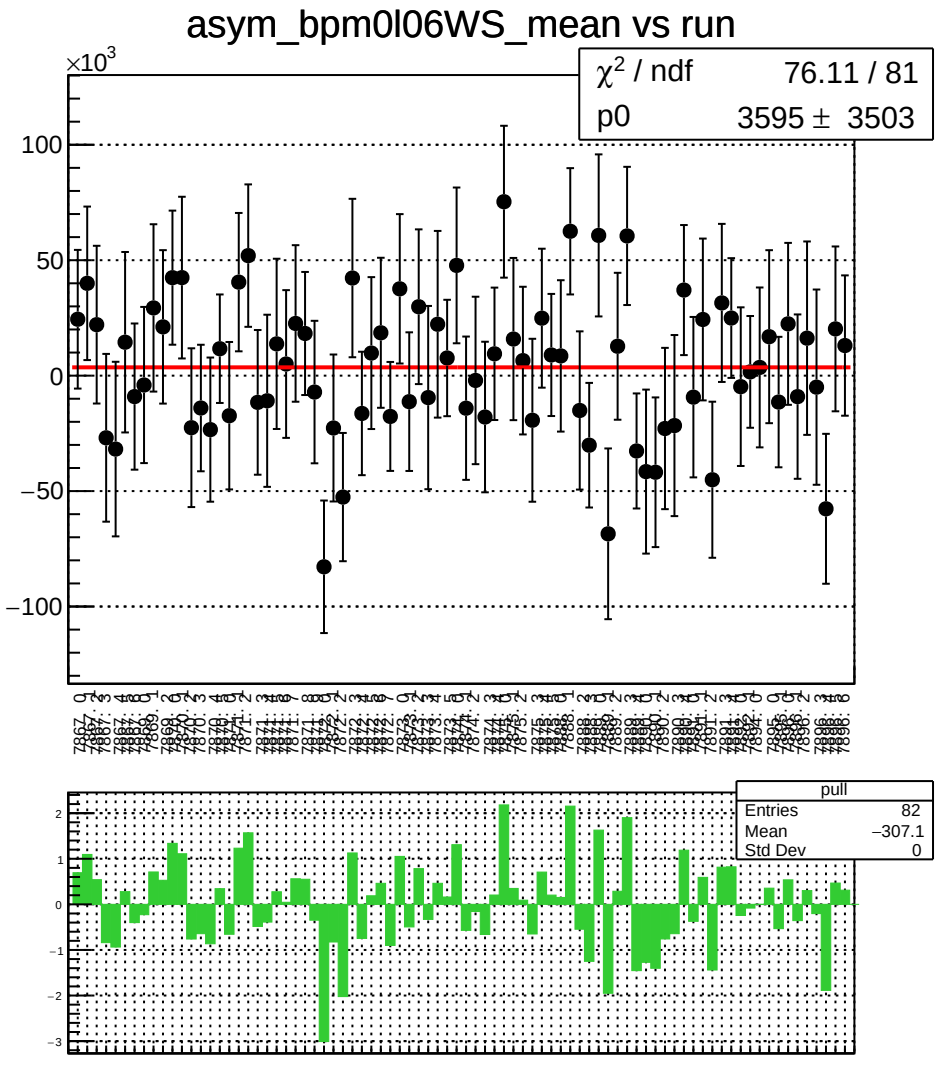

pull1D
Entries 82
Mean −0.07098
Std Dev 2.326
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

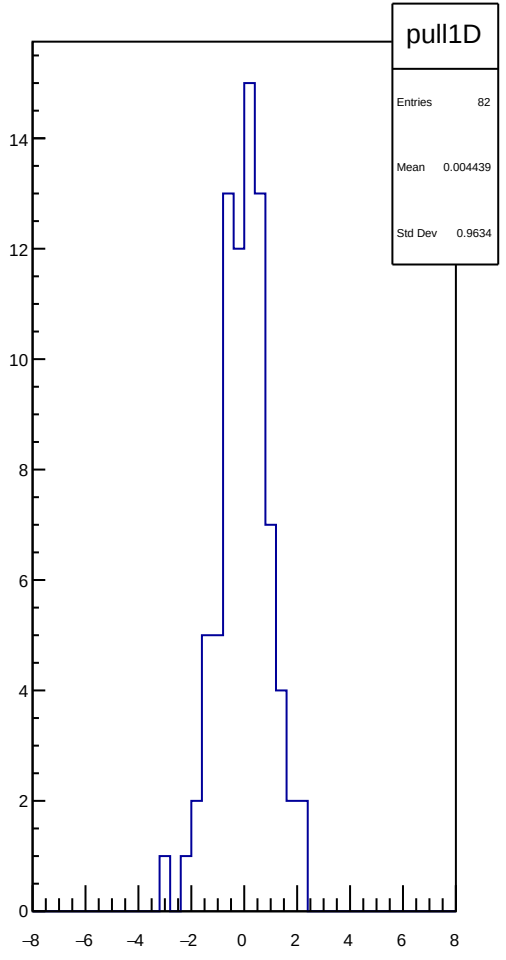

asym_bpm0l04WS_rms vs run
χ² / ndf 3.48e+04 / 81
p0 256.6 ± 0.203
340
320
300
280
260
240
220
200

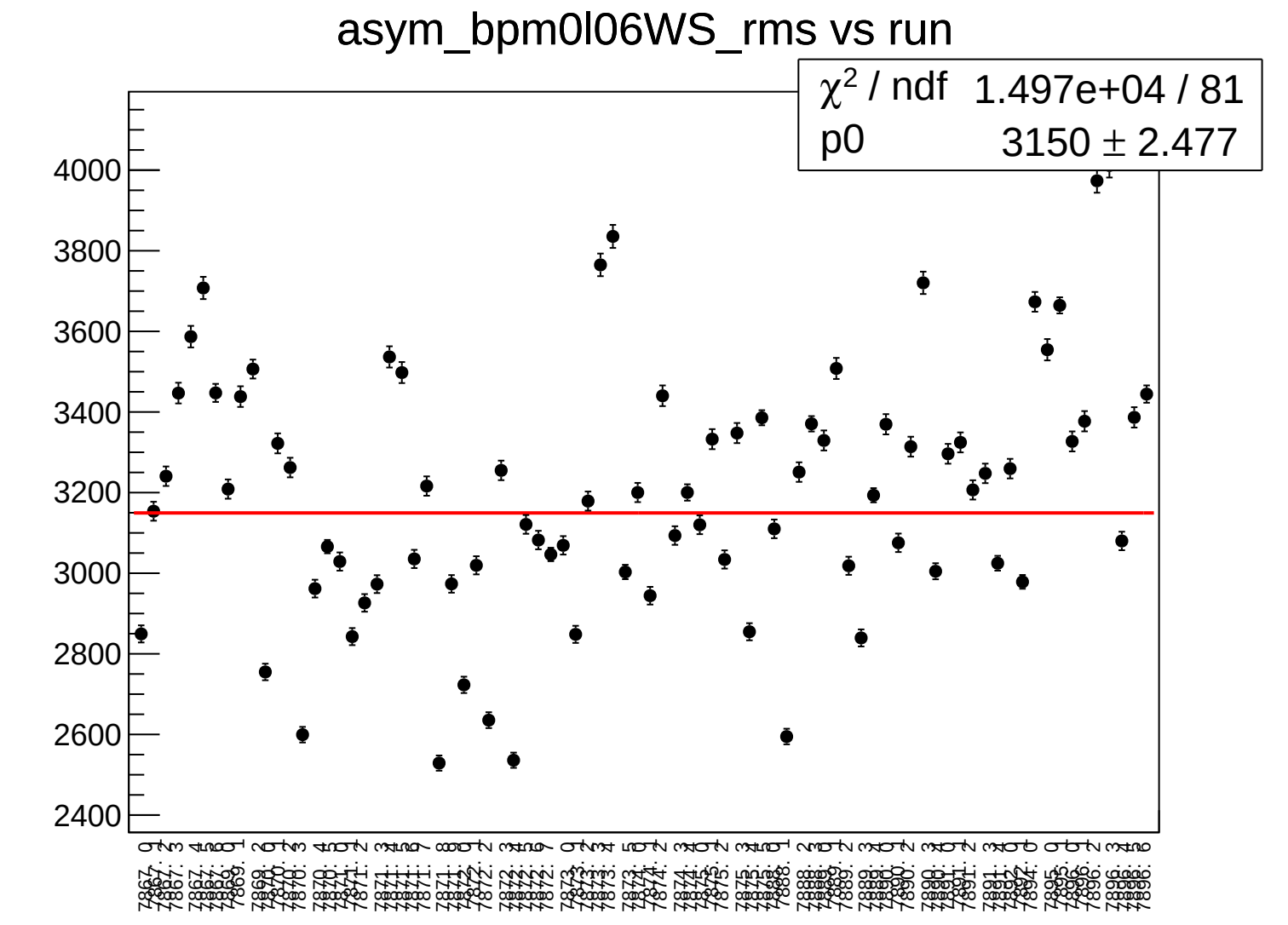

asym_bpm0l05WS_mean vs run
χ² / ndf 820.3 / 81
p0 −2315 ± 217.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 129.7
Std Dev 0
6
4
2
0
−2
−4

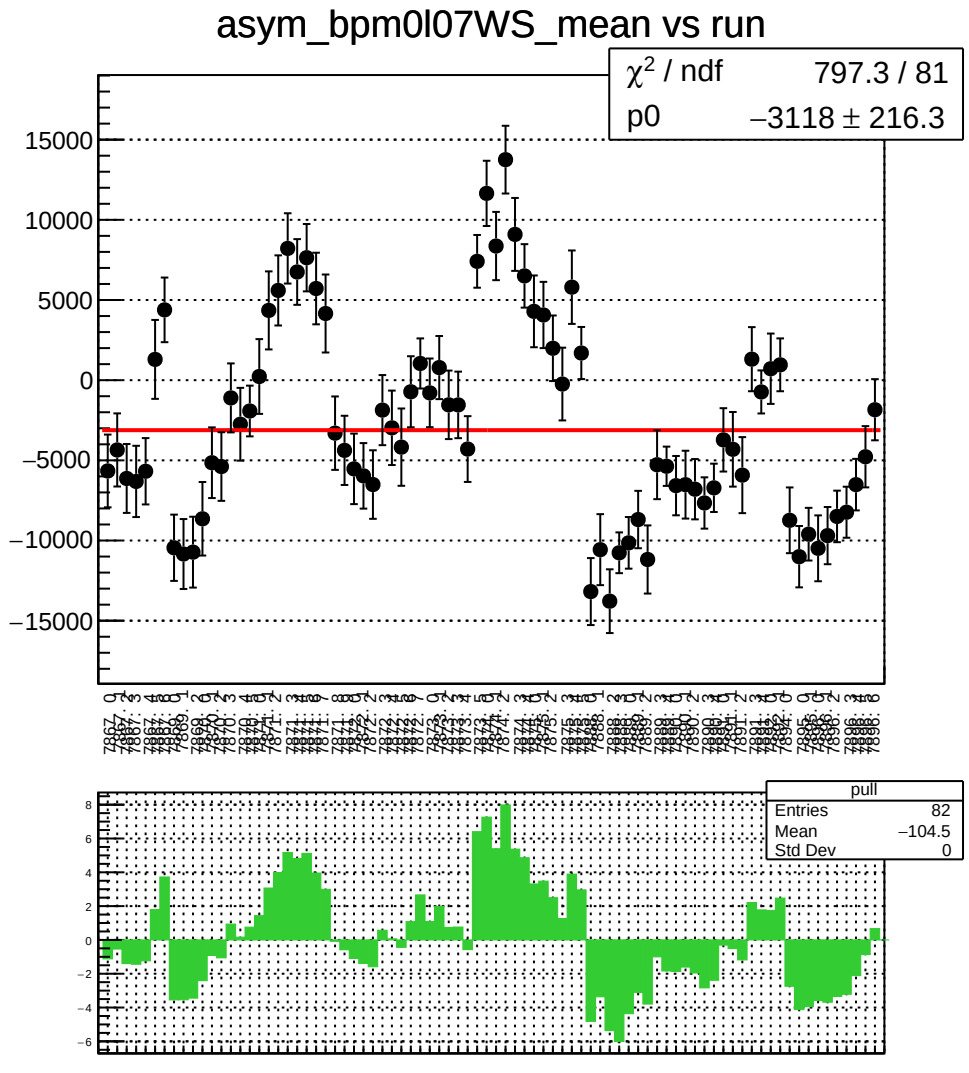

pull1D
Entries 82
Mean −0.1295
Std Dev 3.16
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

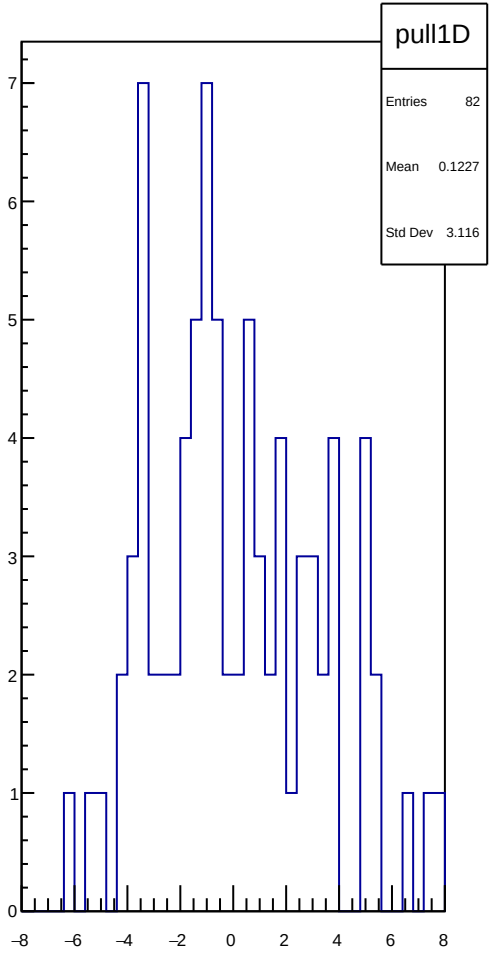

asym_bpm0l05WS_rms vs run
χ² / ndf 7981 / 81
p0 196.1 ± 0.1539
230
220
210
200
190
180
170

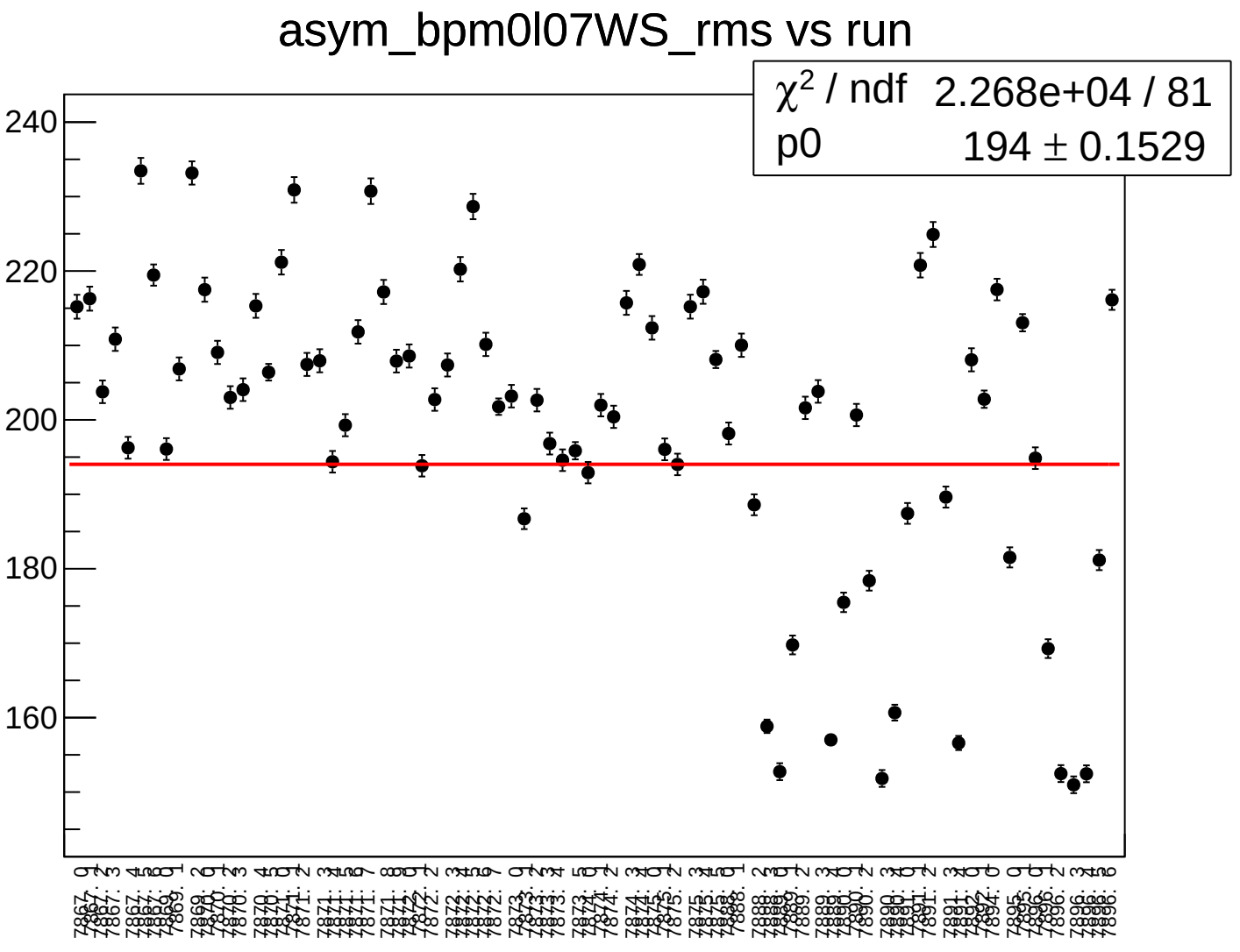

asym_bpm0l06WS_mean vs run
×10^3
χ² / ndf 76.11 / 81
p0 3595 ± 3503
100
50
0
−50
−100
pull
Entries 82
Mean −307.1
Std Dev 0
2
1
0
−1
−2
−3

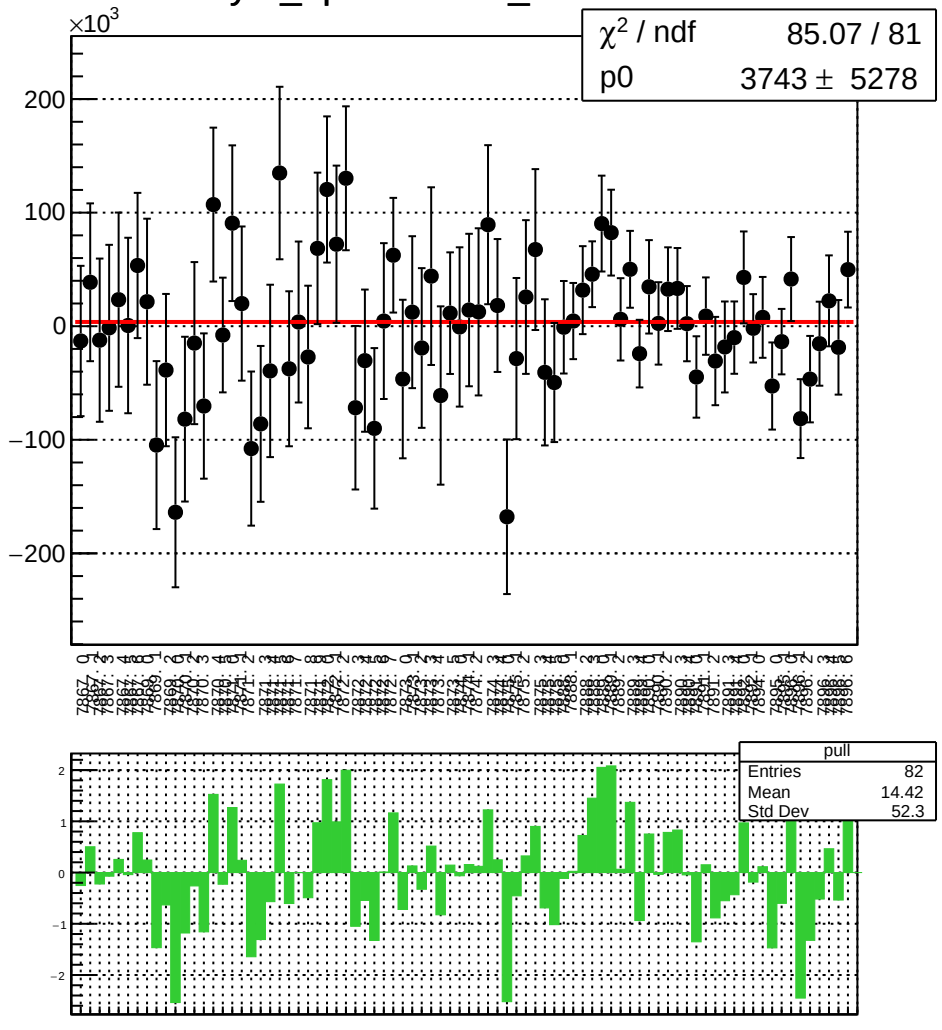

pull1D
Entries 82
Mean 0.004439
Std Dev 0.9634
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

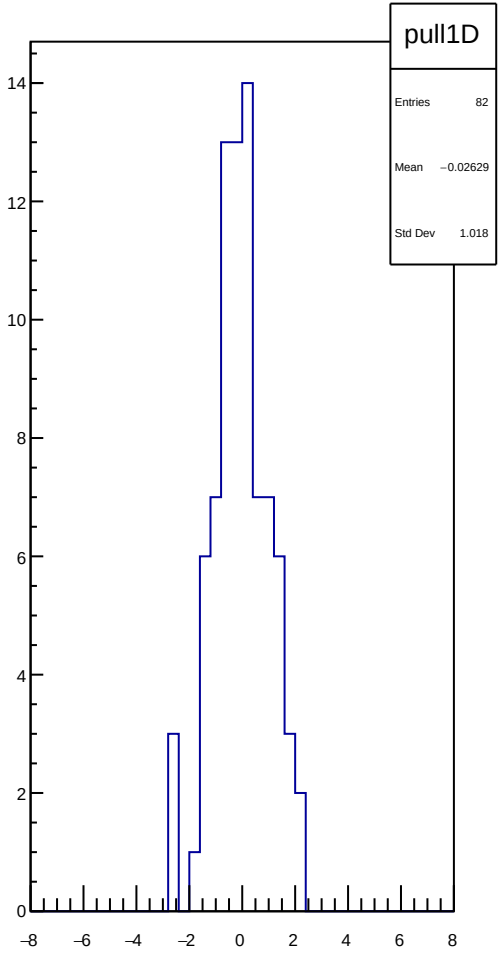

asym_bpm0l06WS_rms vs run
χ² / ndf 1.497e+04 / 81
p0 3150 ± 2.477
4000
3800
3600
3400
3200
3000
2800
2600
2400

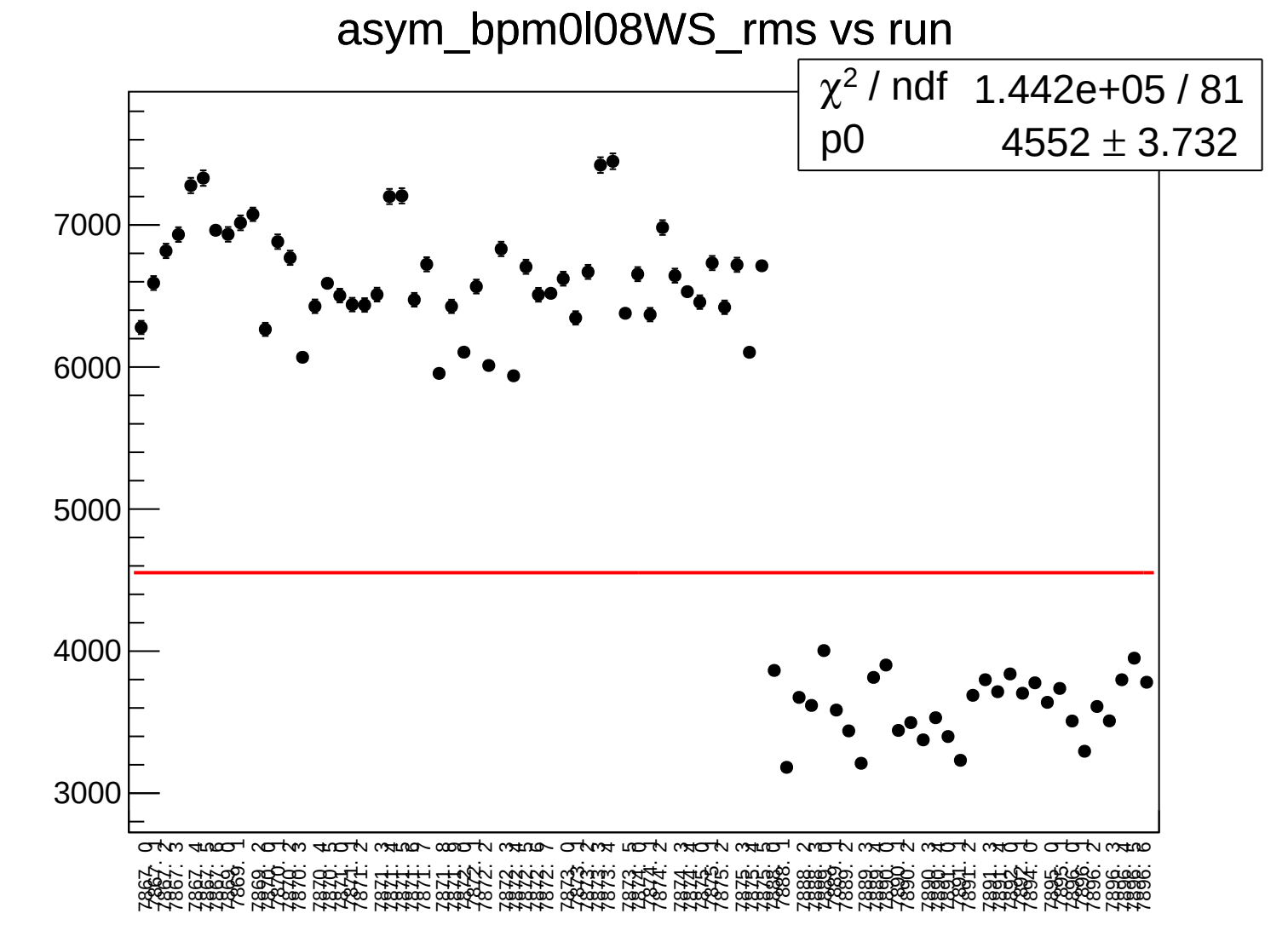

asym_bpm0l07WS_mean vs run
χ² / ndf 797.3 / 81
p0 −3118 ± 216.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −104.5
Std Dev 0
8
6
4
2
0
−2
−4
−6

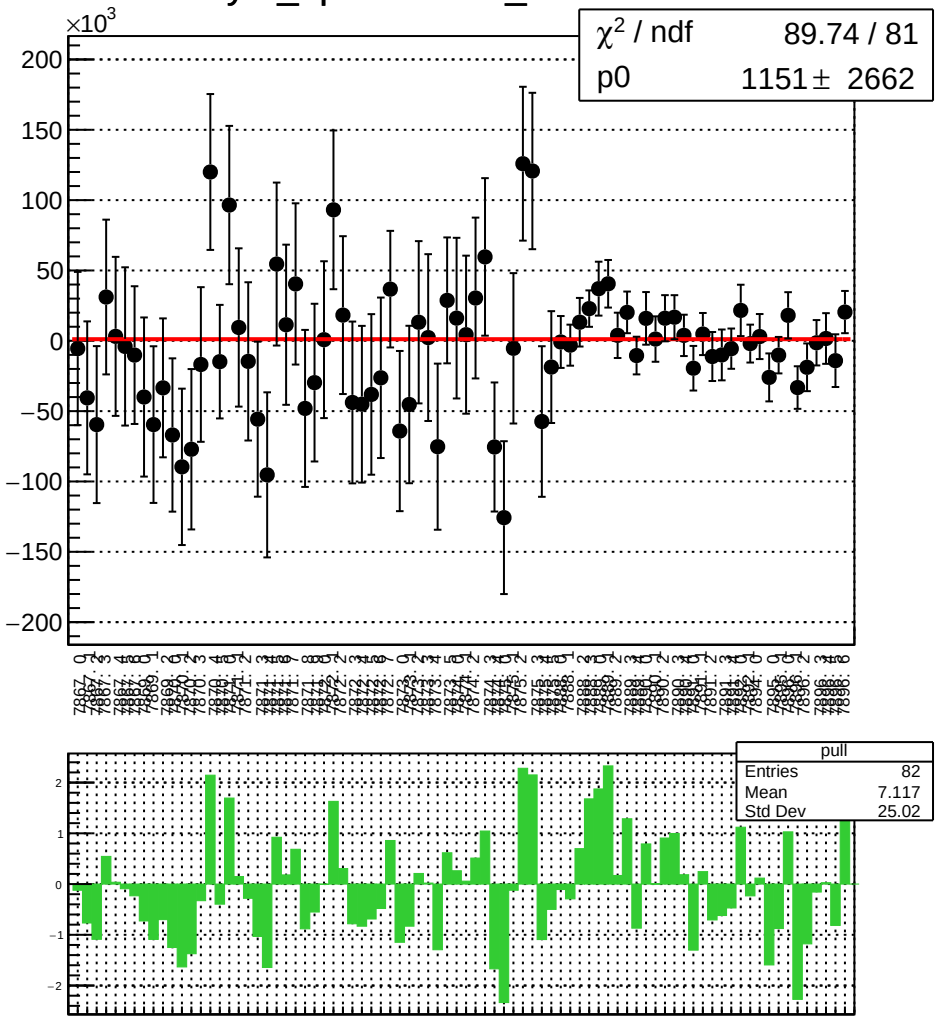

pull1D
Entries 82
Mean 0.1227
Std Dev 3.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

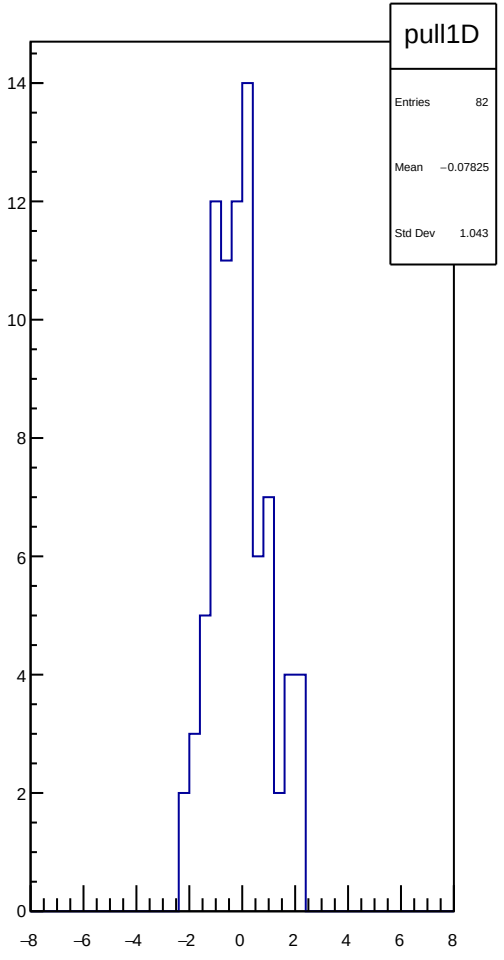

asym_bpm0l07WS_rms vs run
χ² / ndf 2.268e+04 / 81
p0 194 ± 0.1529
240
220
200
180
160

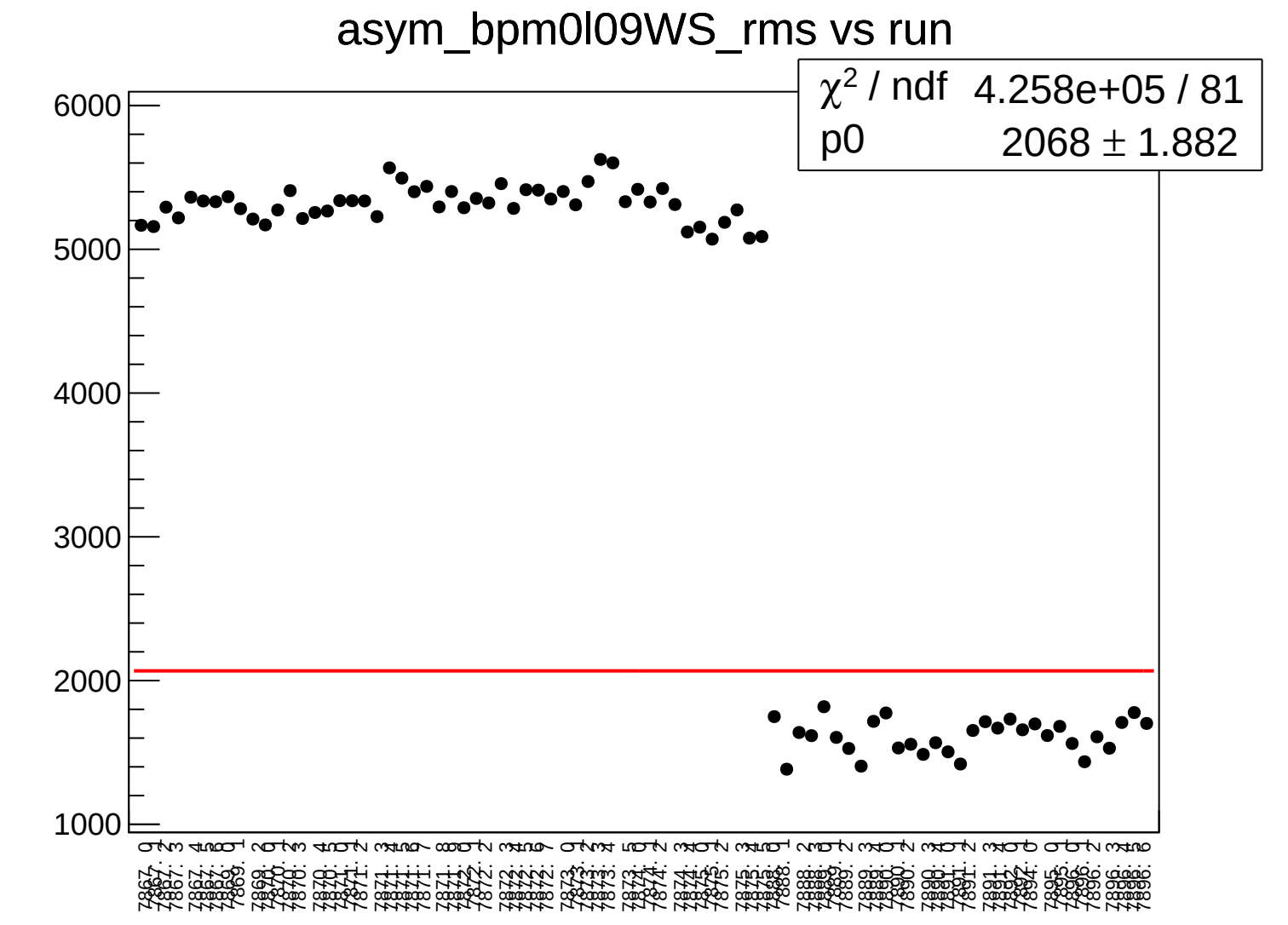

asym_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 85.07 / 81
p0 3743 ± 5278
200
100
0
−100
−200
pull
Entries 82
Mean 14.42
Std Dev 52.3
2
1
0
−1
−2

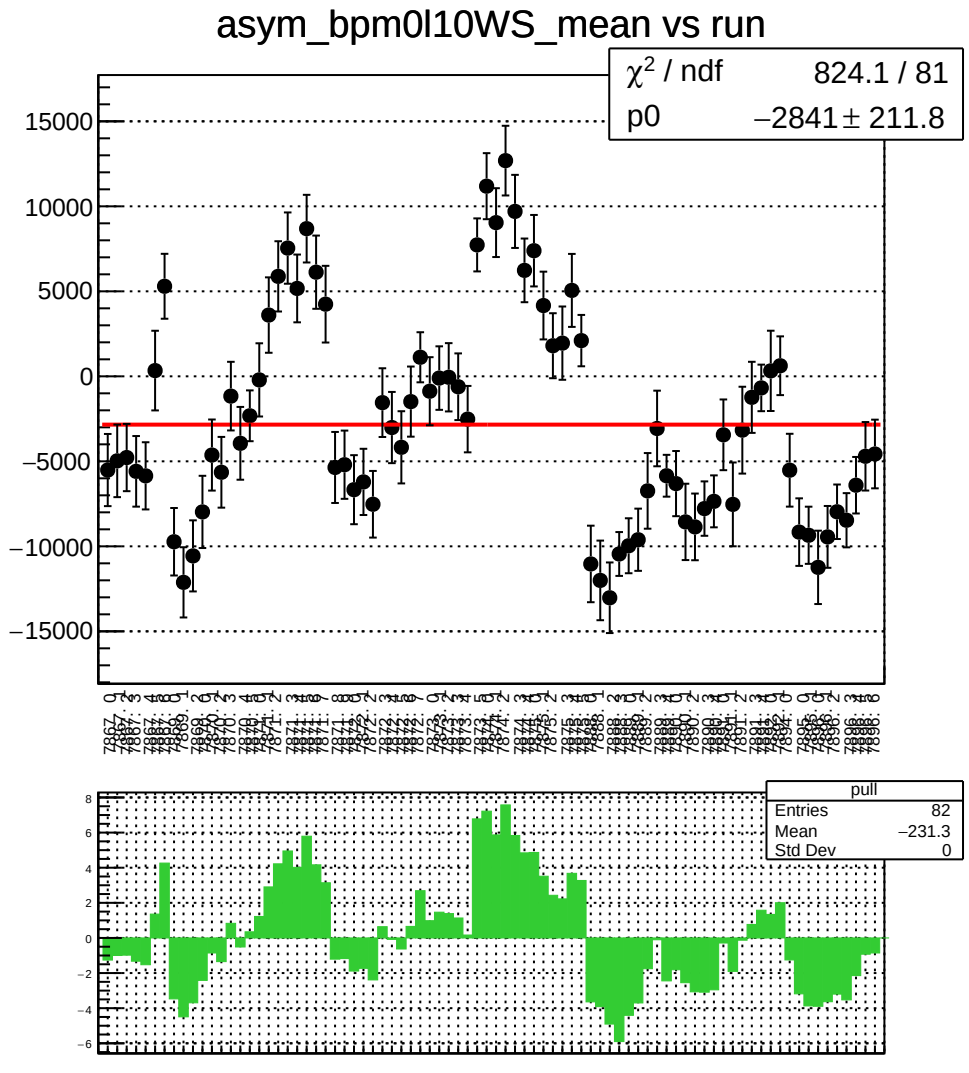

pull1D
Entries 82
Mean −0.02629
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

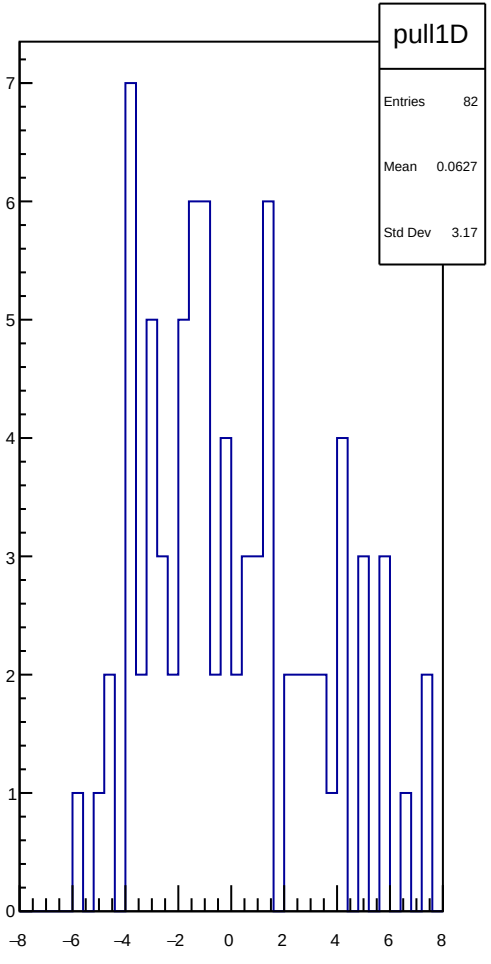

asym_bpm0l08WS_rms vs run
χ² / ndf 1.442e+05 / 81
p0 4552 ± 3.732
7000
6000
5000
4000
3000

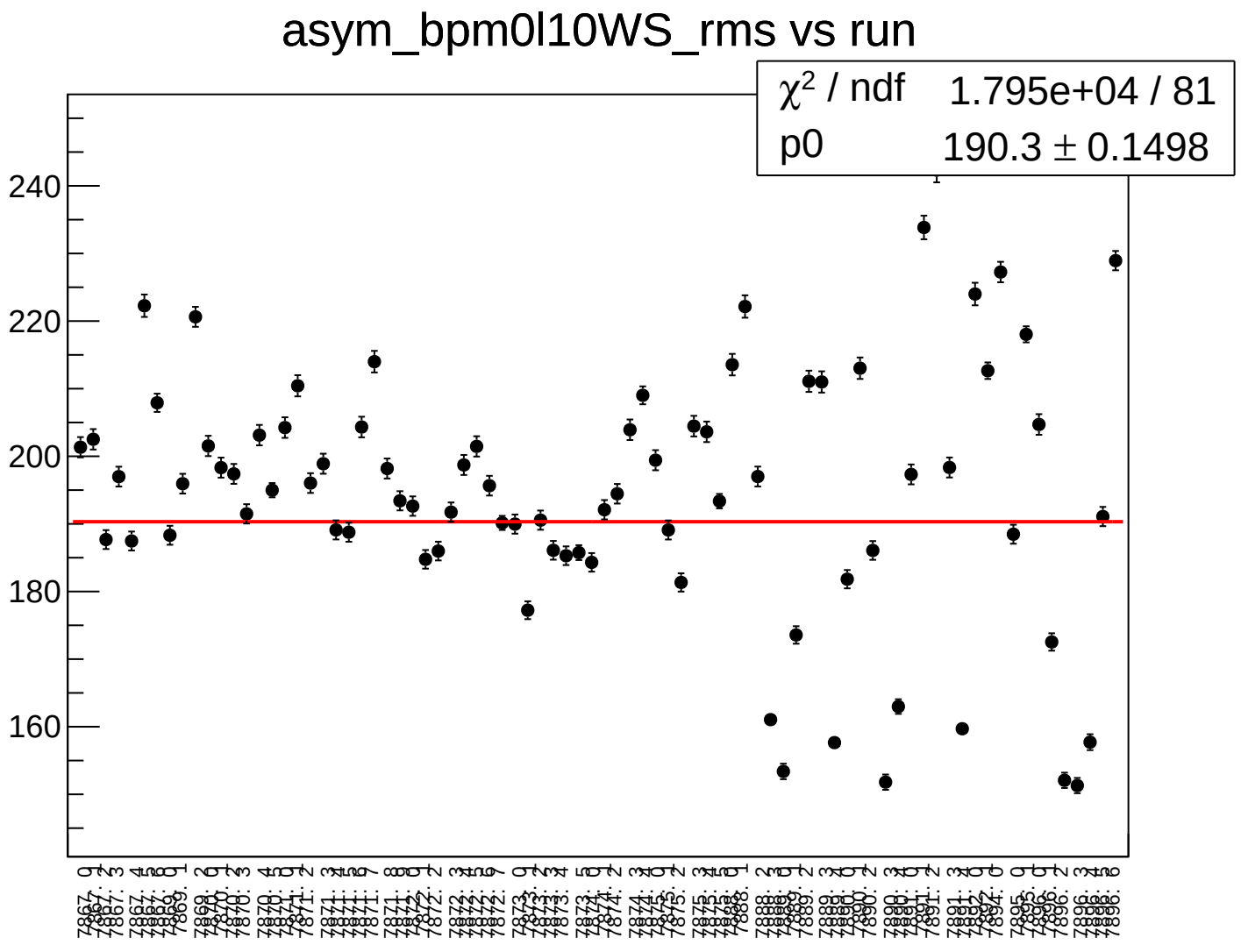

asym_bpm0l09WS_mean vs run
×10^3
χ² / ndf 89.74 / 81
p0 1151 ± 2662
pull
Entries 82
Mean 7.117
Std Dev 25.02

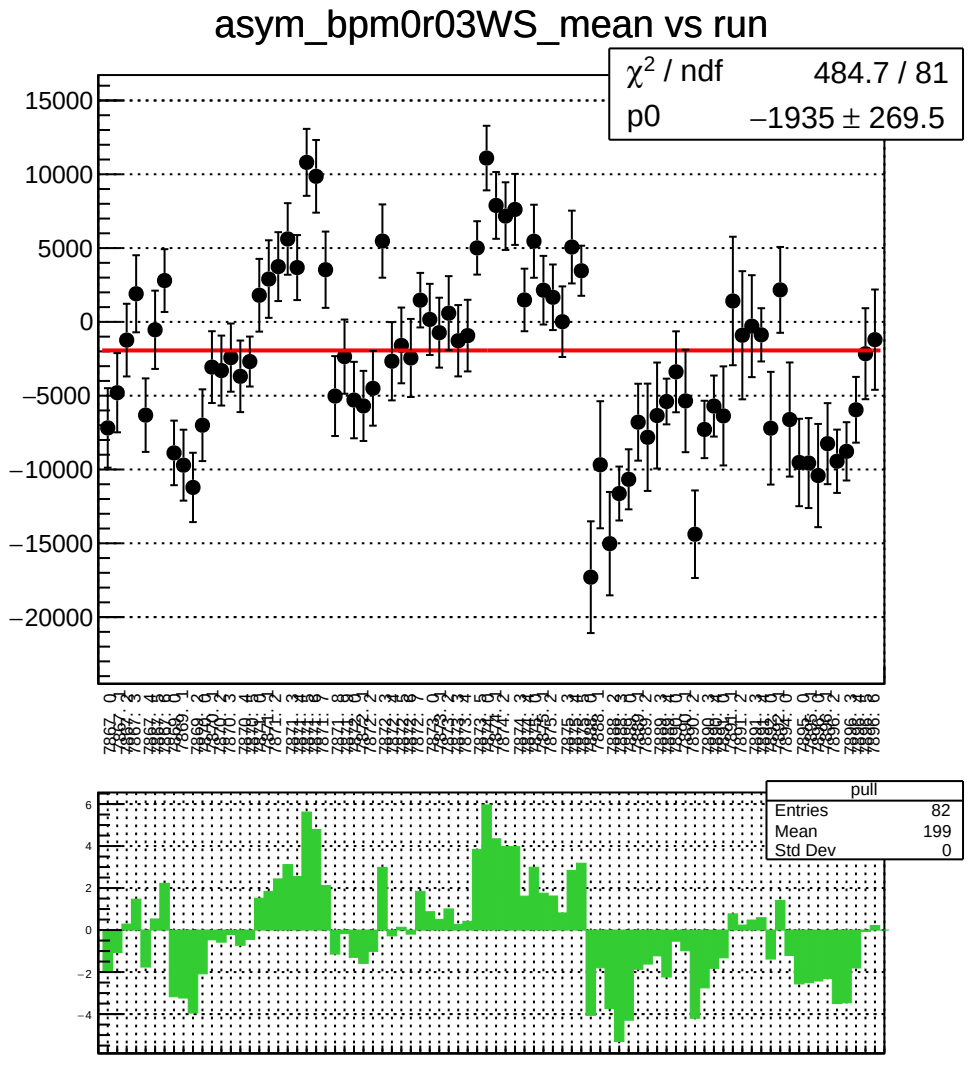

pull1D
Entries 82
Mean −0.07825
Std Dev 1.043

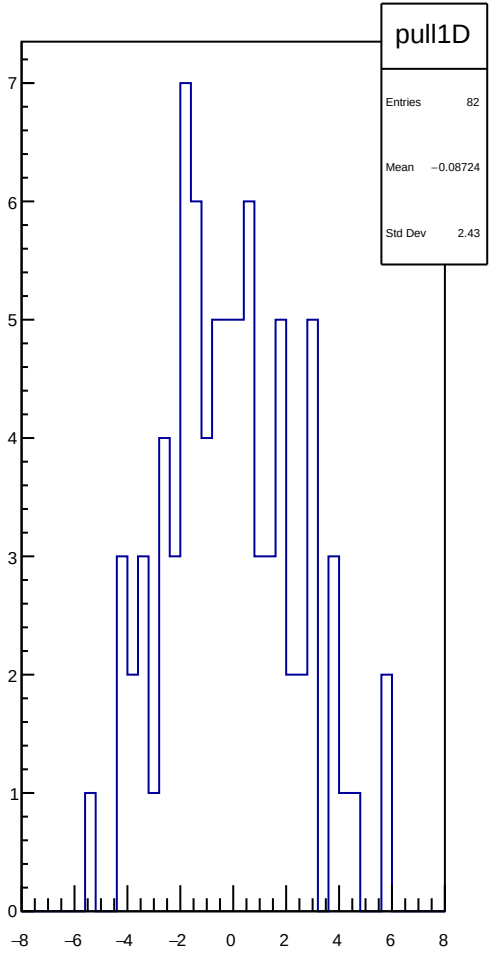

asym_bpm0l09WS_rms vs run
χ^2 / ndf 4.258e+05 / 81
p0 2068 ± 1.882
6000
5000
4000
3000
2000
1000

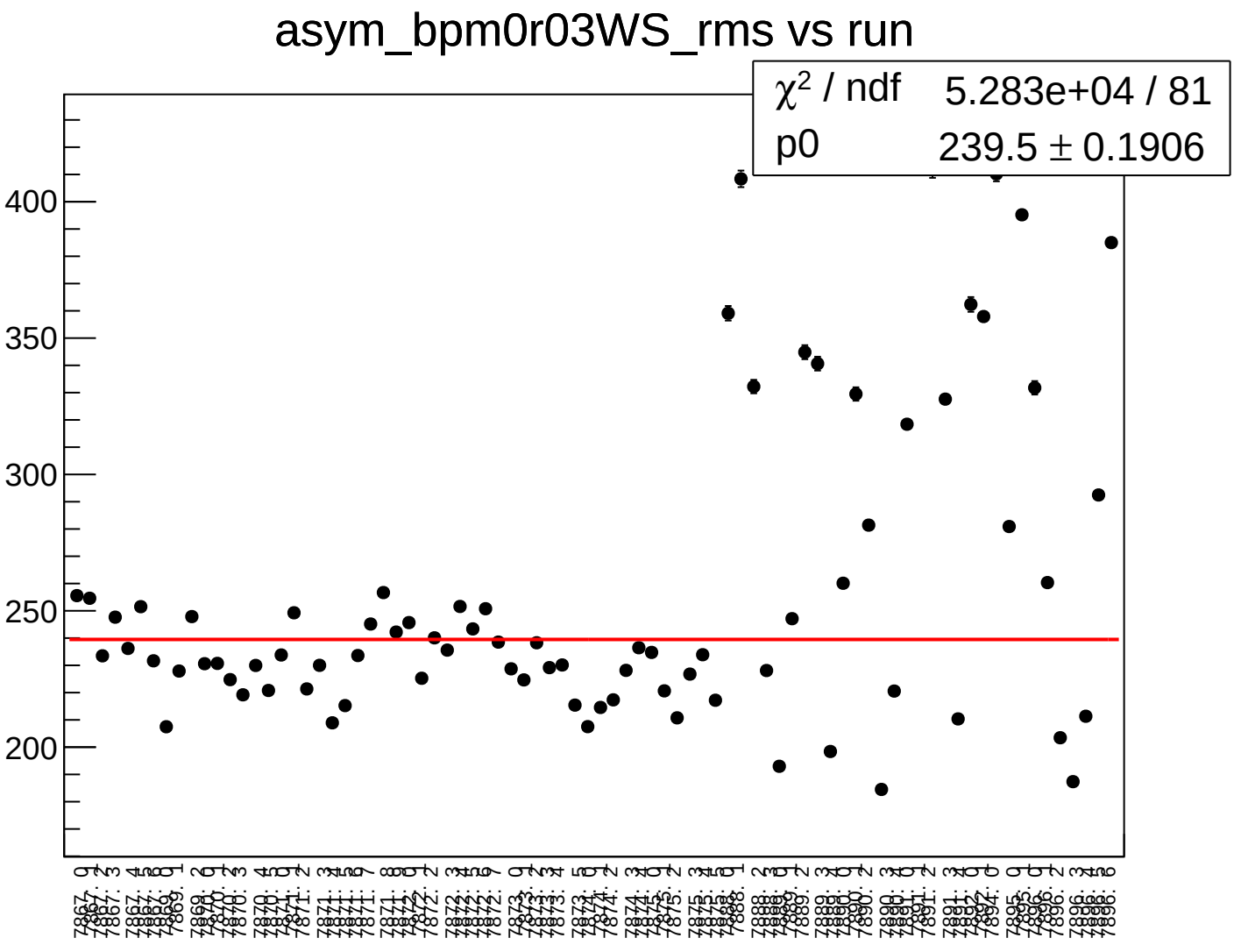

asym_bpm0l10WS_mean vs run
χ² / ndf 824.1 / 81
p0 −2841 ± 211.8
pull
Entries 82
Mean −231.3
Std Dev 0

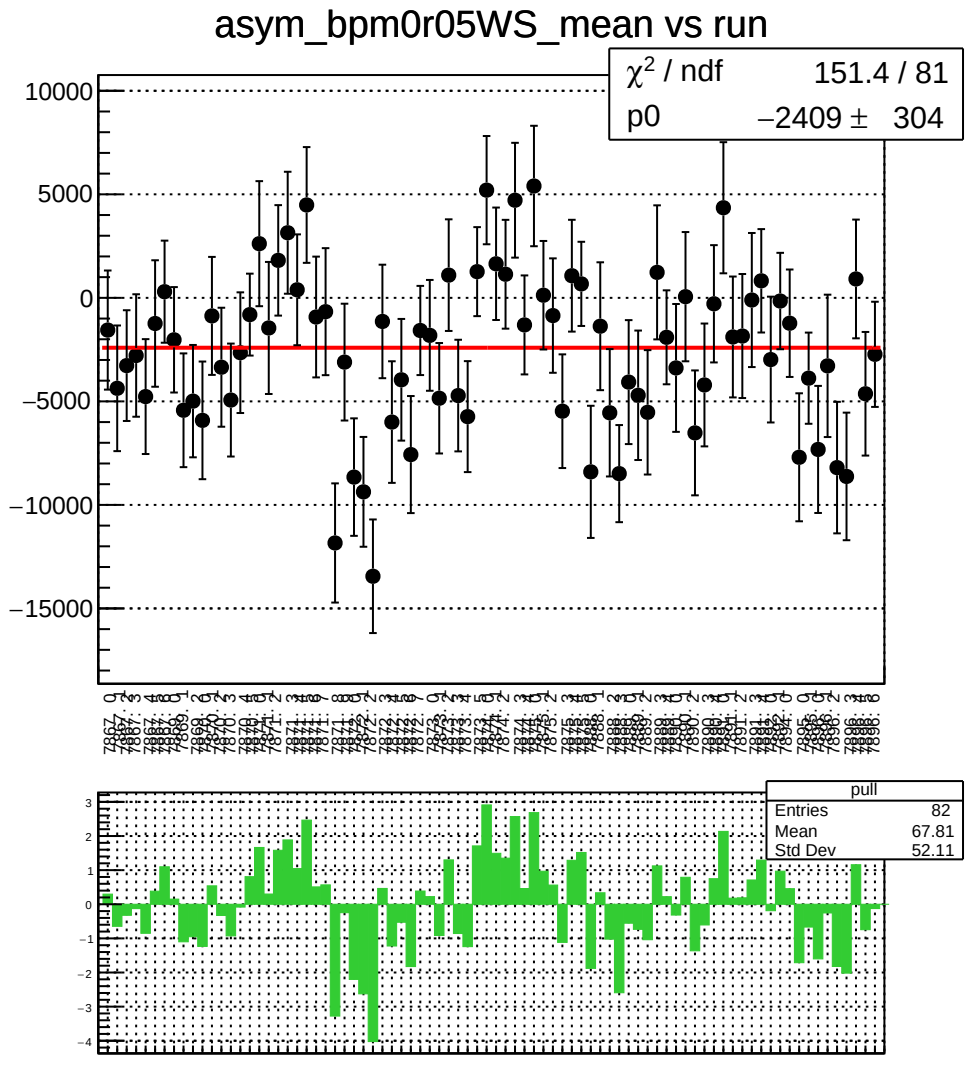

pull1D
Entries 82
Mean 0.0627
Std Dev 3.17

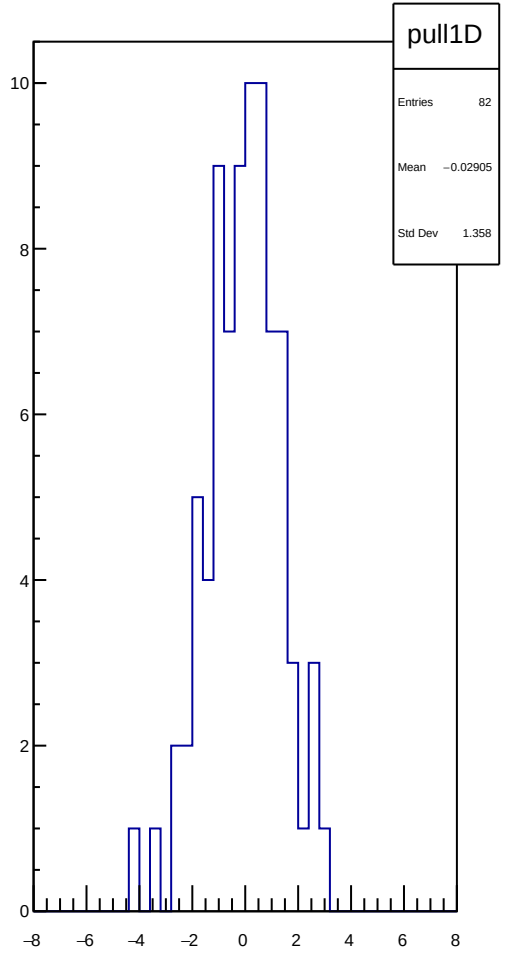

asym_bpm0l10WS_rms vs run
χ² / ndf 1.795e+04 / 81
p0 190.3 ± 0.1498
240
220
200
180
160

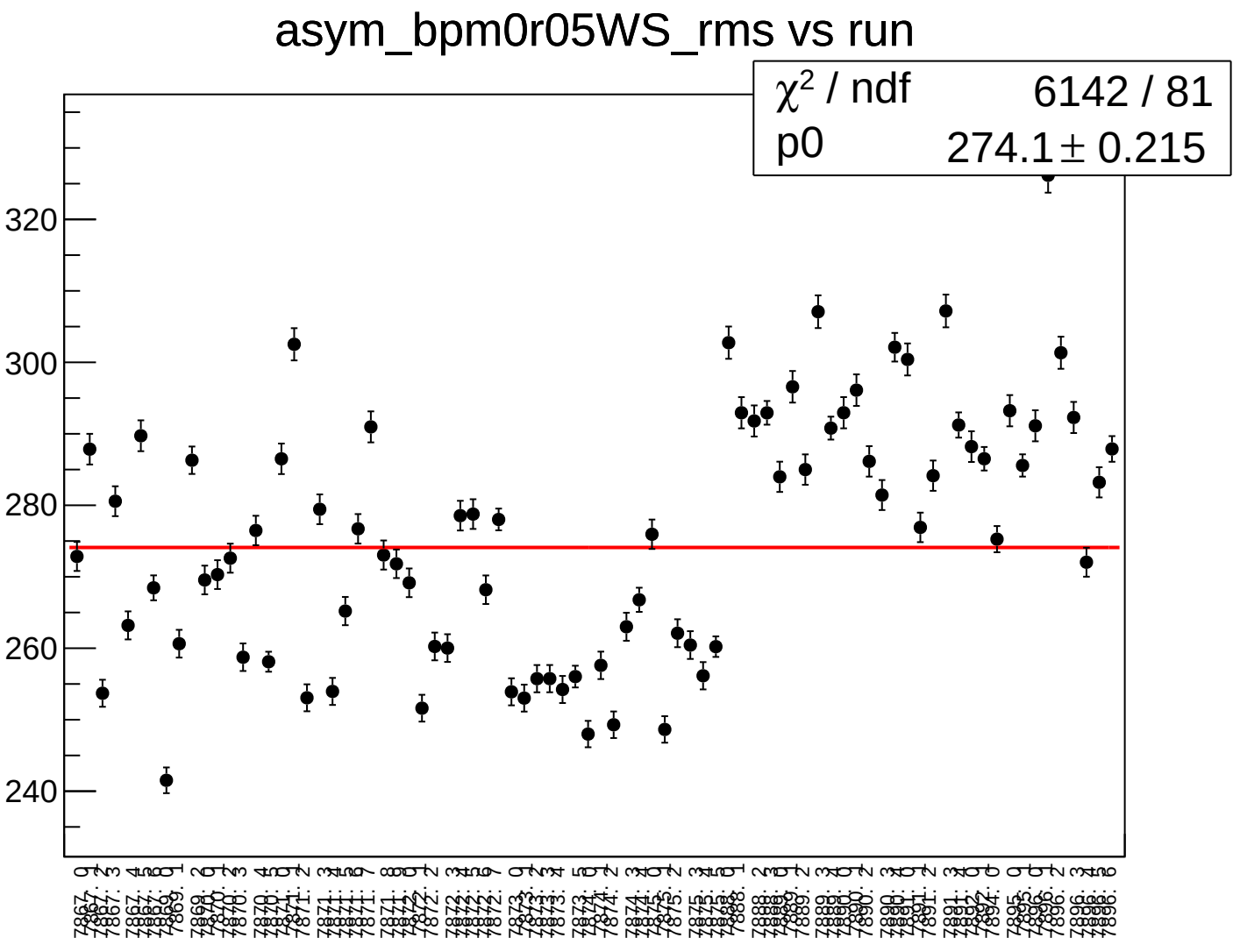

asym_bpm0r03WS_mean vs run
χ² / ndf 484.7 / 81
p0 −1935 ± 269.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 199
Std Dev 0
6
4
2
0
−2
−4

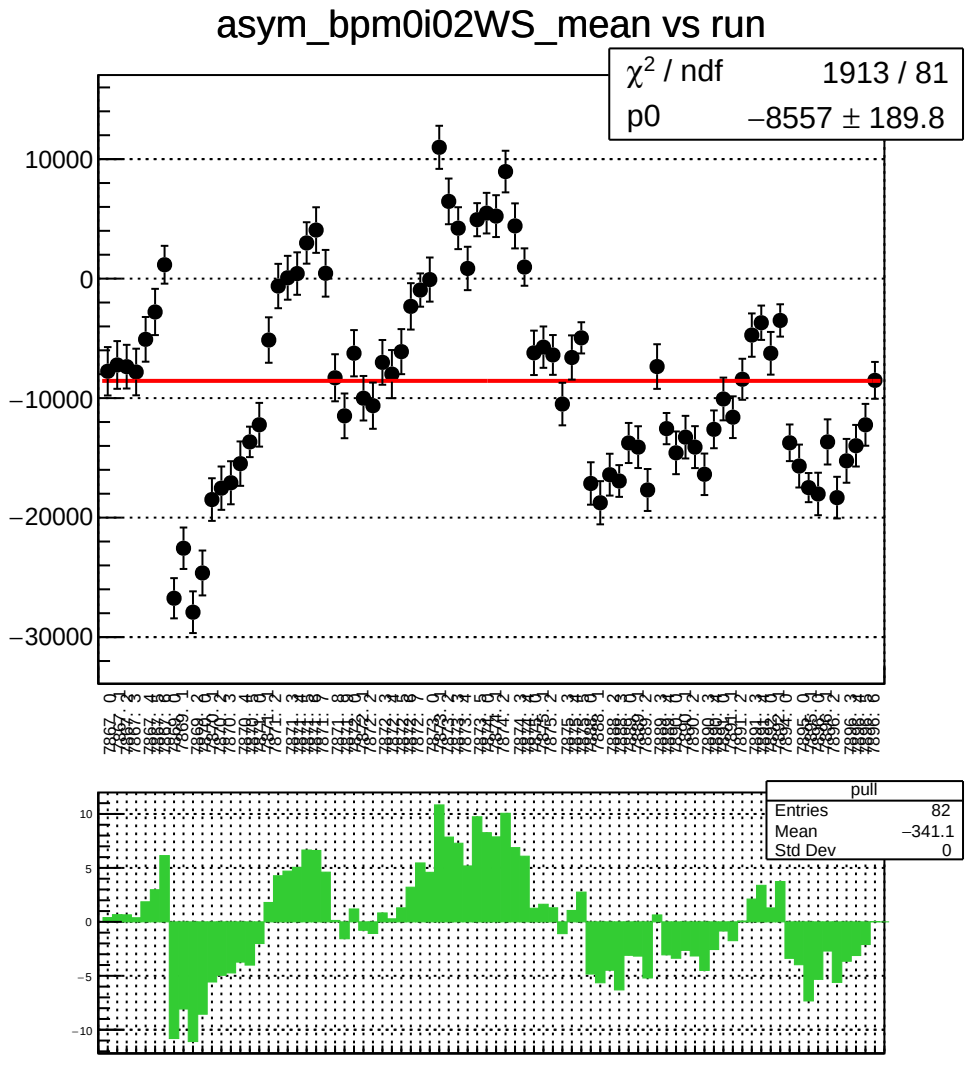

pull1D
Entries 82
Mean −0.08724
Std Dev 2.43
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

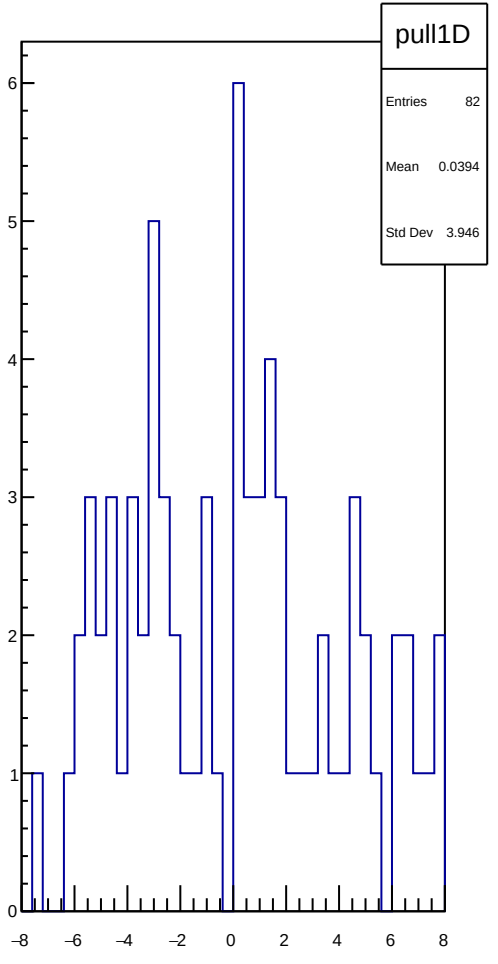

asym_bpm0r03WS_rms vs run
χ² / ndf 5.283e+04 / 81
p0 239.5 ± 0.1906
400
350
300
250
200

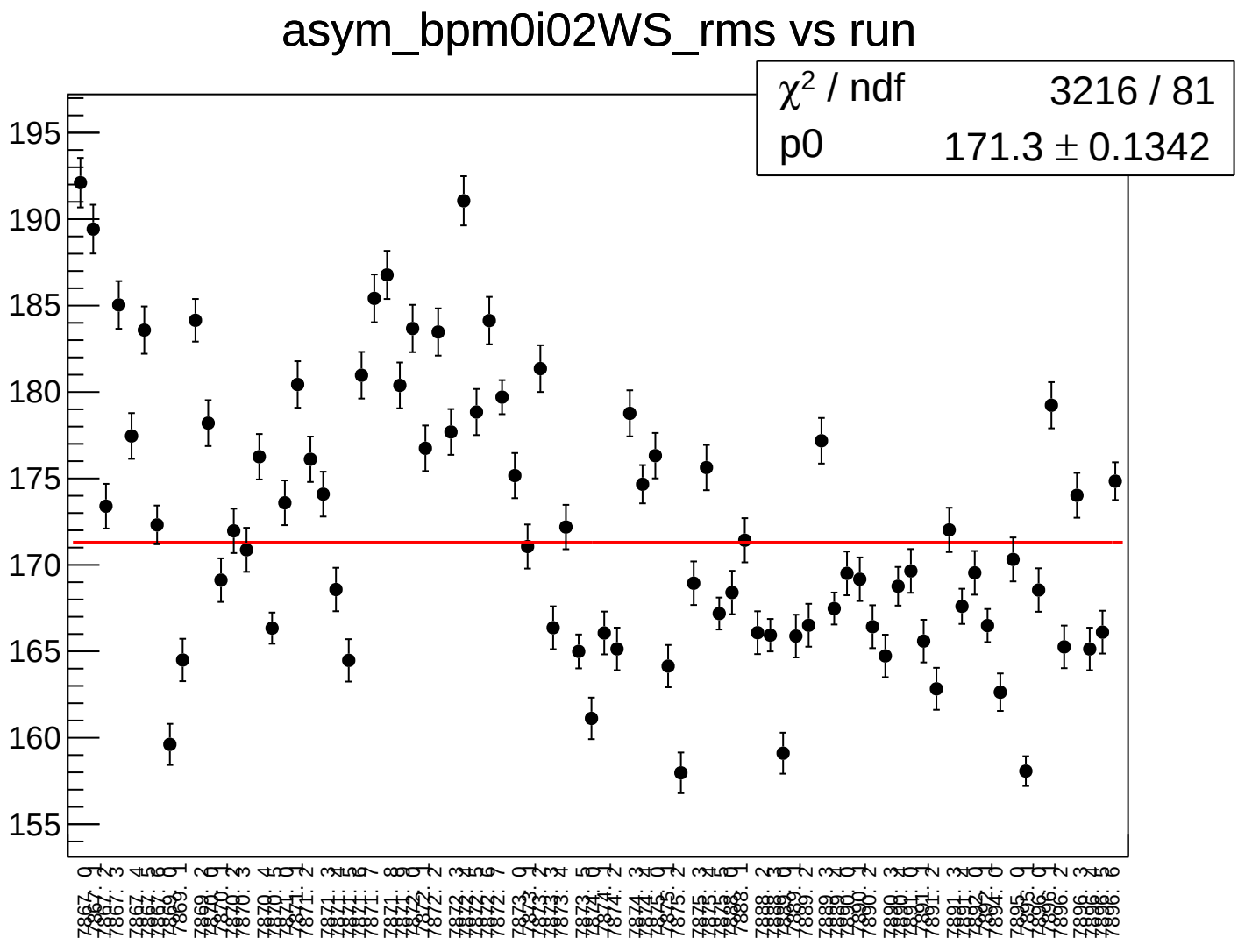

asym_bpm0r05WS_mean vs run
χ² / ndf 151.4 / 81
p0 −2409 ± 304
pull
Entries 82
Mean 67.81
Std Dev 52.11

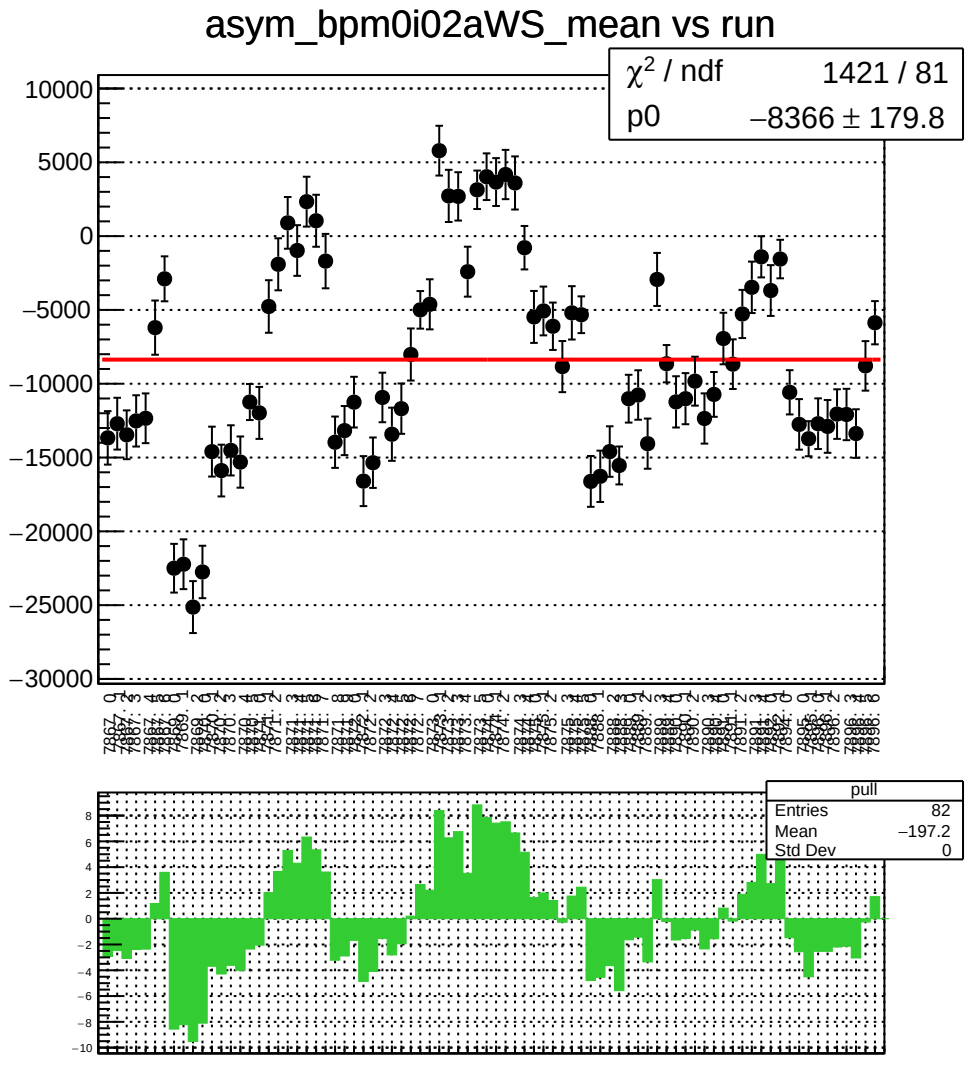

pull1D
Entries 82
Mean −0.02905
Std Dev 1.358

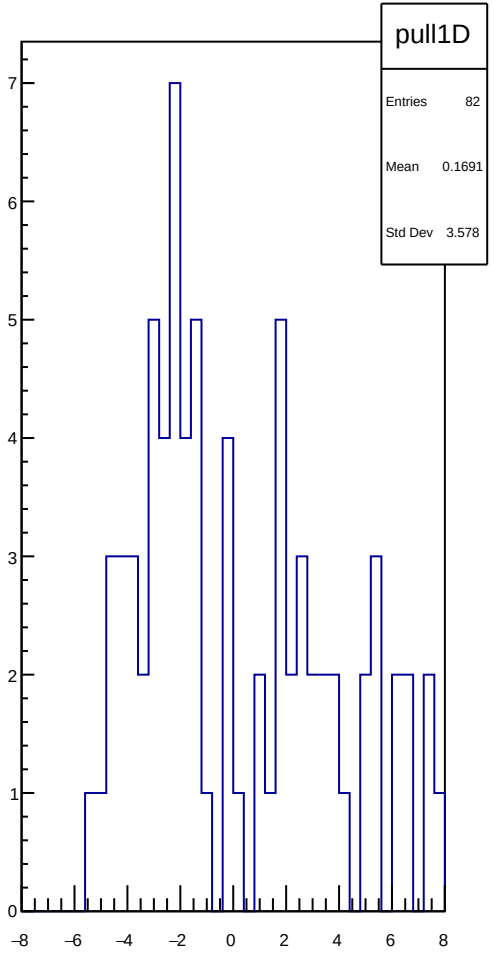

asym_bpm0r05WS_rms vs run
χ² / ndf 6142 / 81
p0 274.1 ± 0.215
320
300
280
260
240

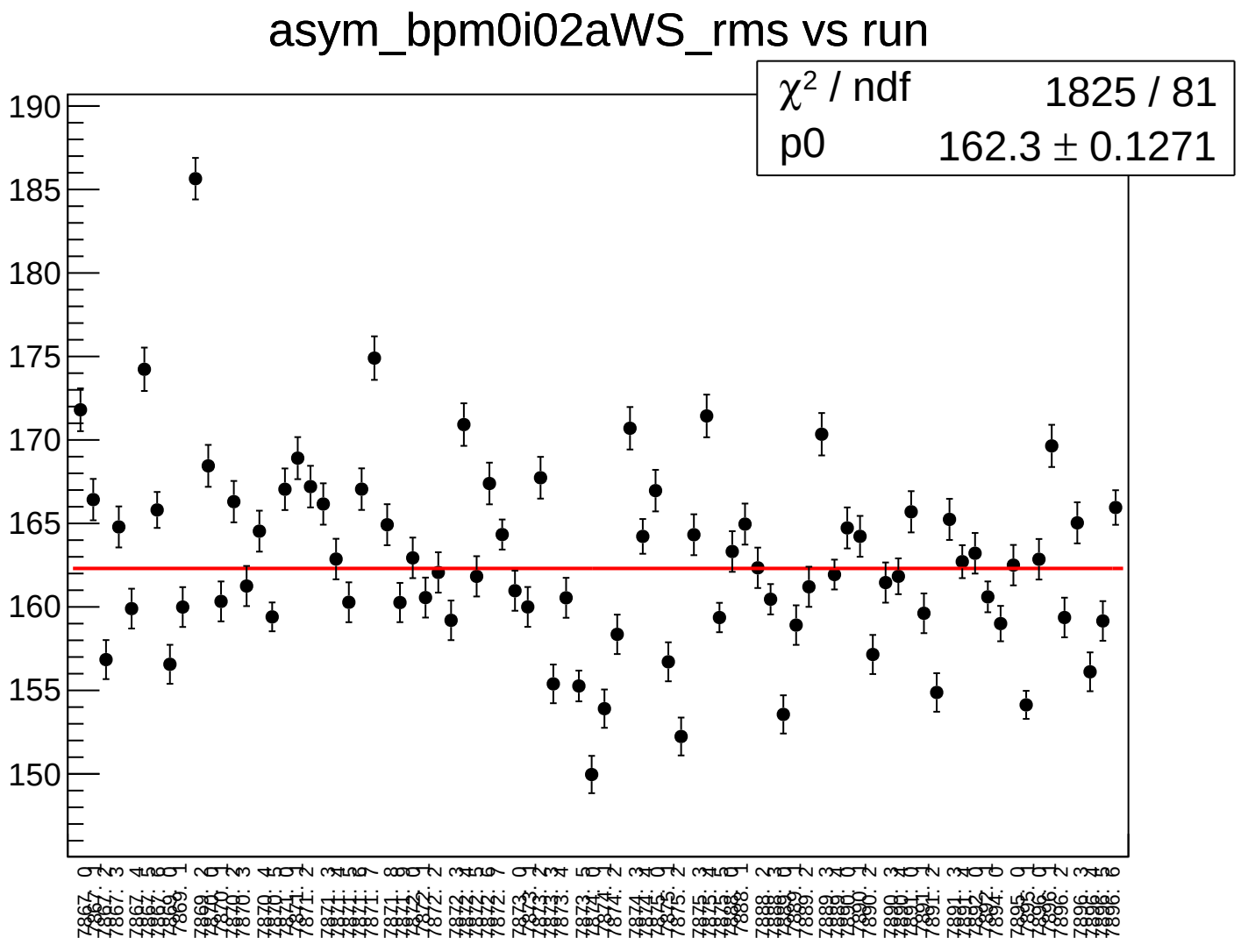

asym_bpm0i02WS_mean vs run
χ² / ndf 1913 / 81
p0 −8557 ± 189.8
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −341.1
Std Dev 0
10
5
0
−5
−10

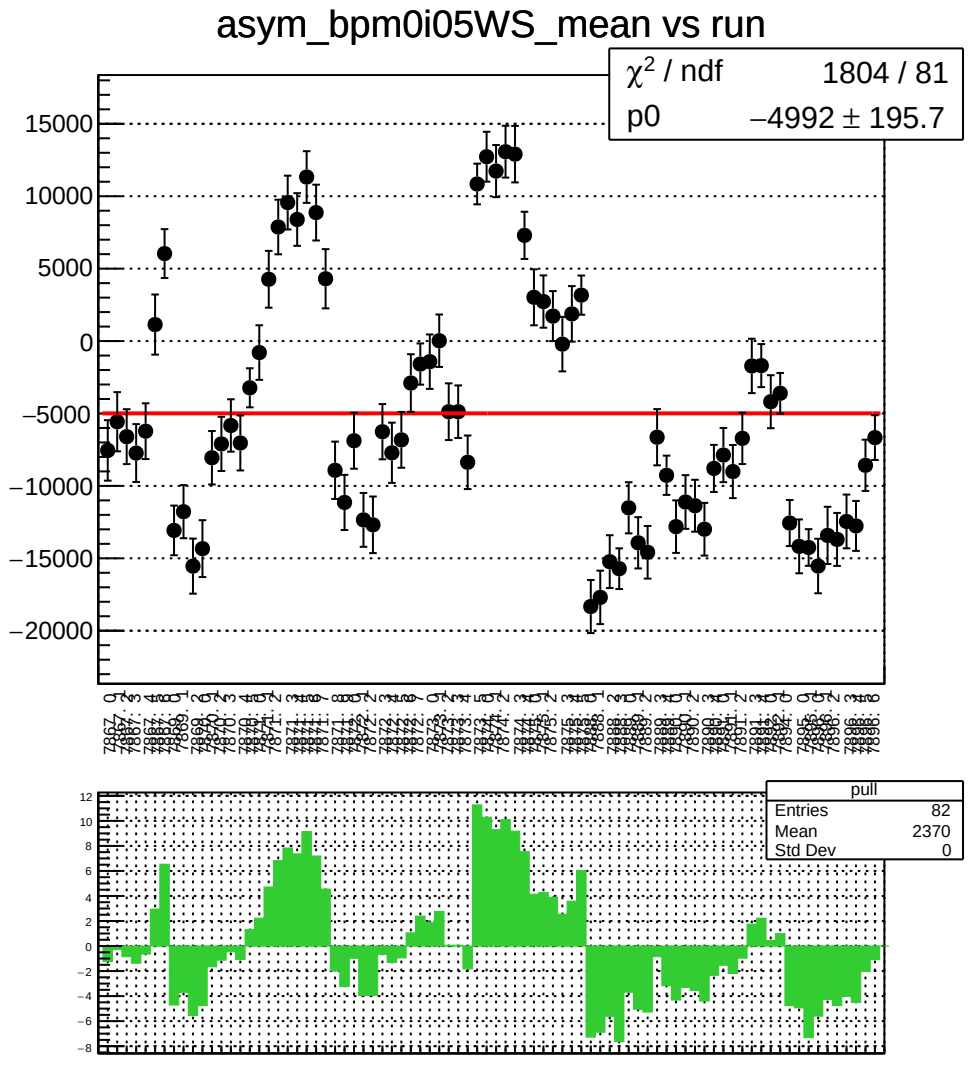

pull1D
Entries 82
Mean 0.0394
Std Dev 3.946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

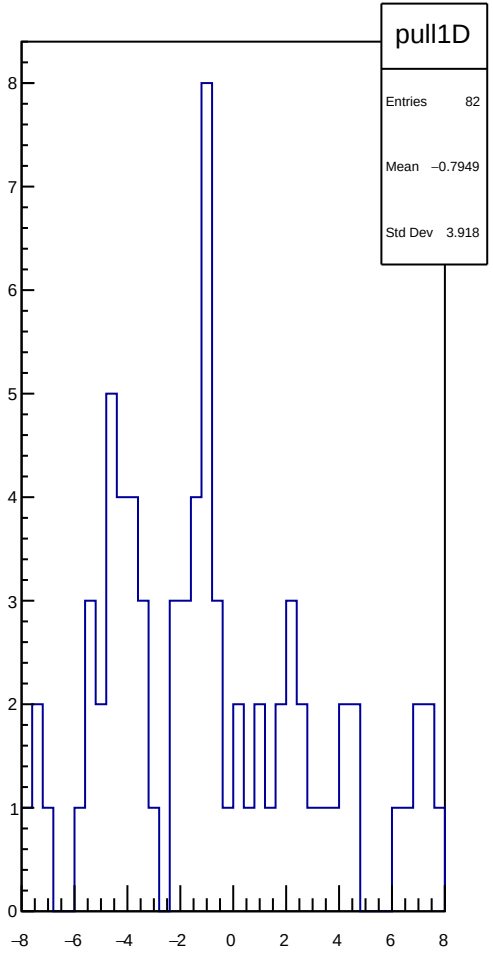

asym_bpm0i02WS_rms vs run
χ² / ndf 3216 / 81
p0 171.3 ± 0.1342
195
190
185
180
175
170
165
160
155

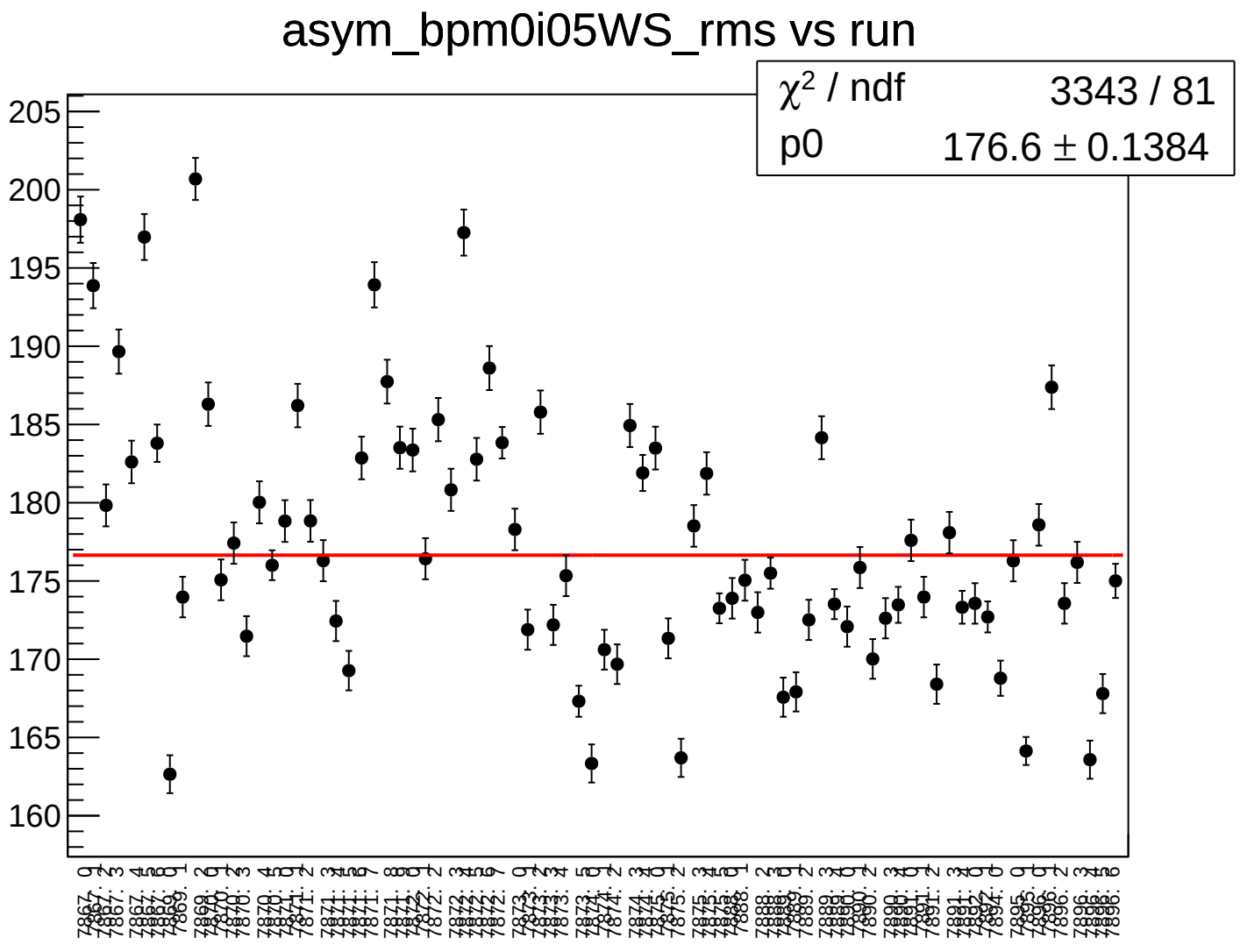

asym_bpm0i02aWS_mean vs run
χ² / ndf 1421 / 81
p0 −8366 ± 179.8
pull
Entries 82
Mean −197.2
Std Dev 0

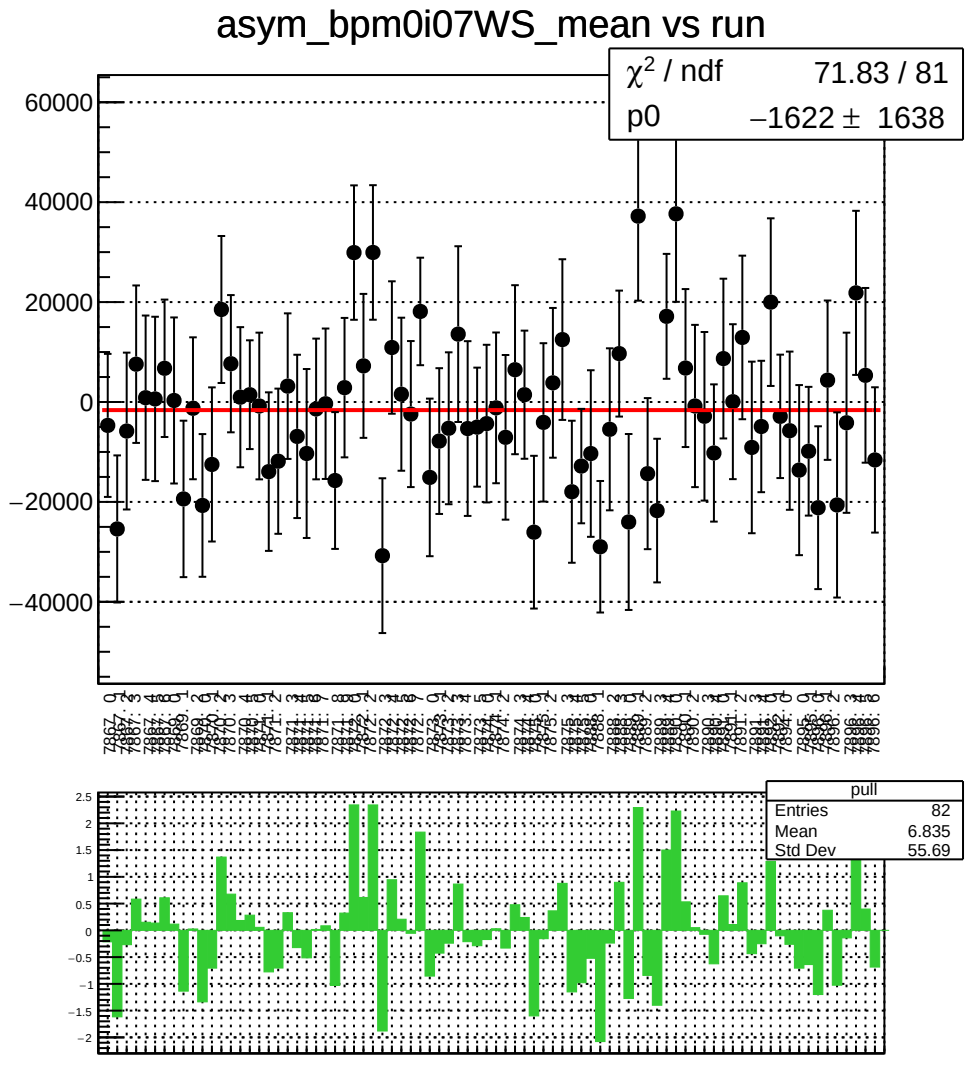

pull1D
Entries 82
Mean 0.1691
Std Dev 3.578

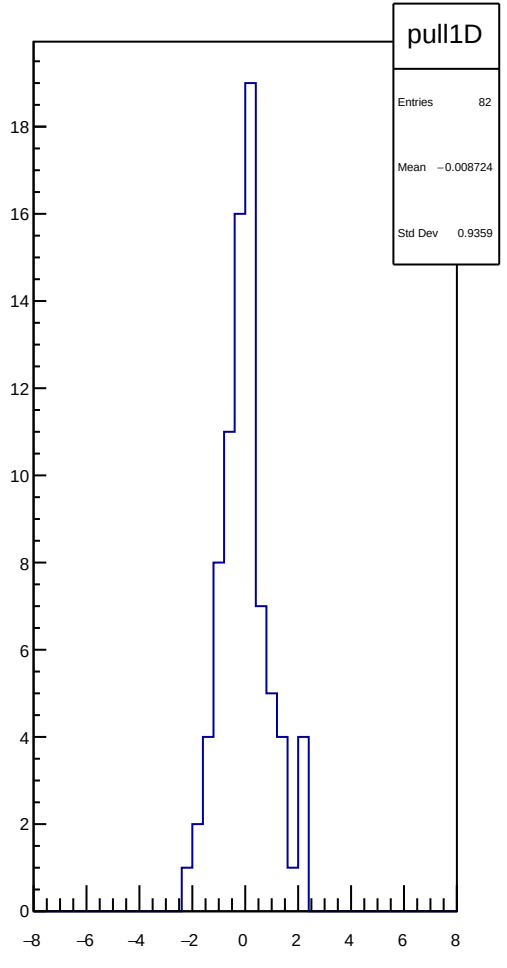

asym_bpm0i02aWS_rms vs run
χ² / ndf 1825 / 81
p0 162.3 ± 0.1271
190
185
180
175
170
165
160
155
150

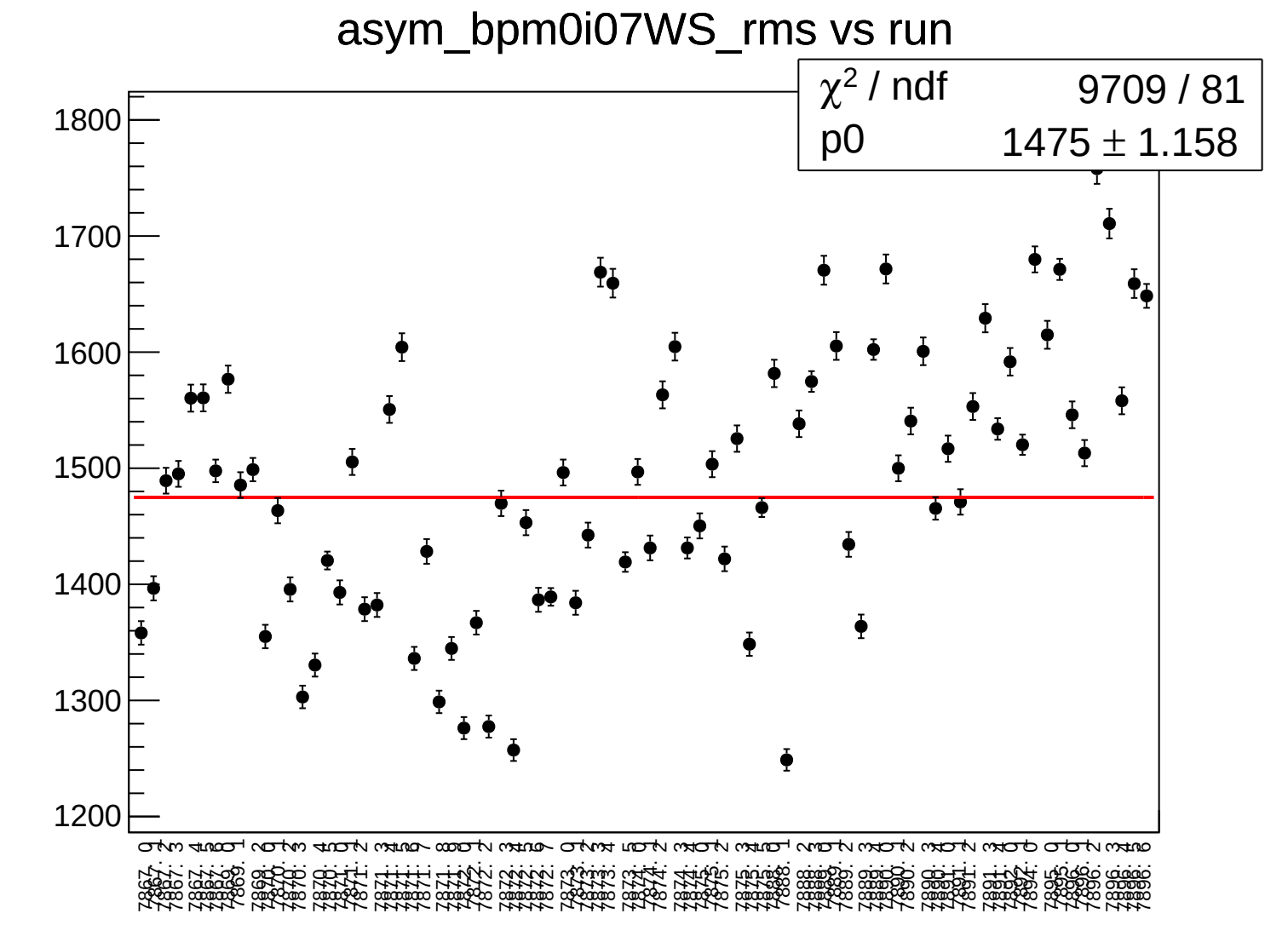

asym_bpm0i05WS_mean vs run
χ² / ndf 1804 / 81
p0 −4992 ± 195.7
pull
Entries 82
Mean 2370
Std Dev 0

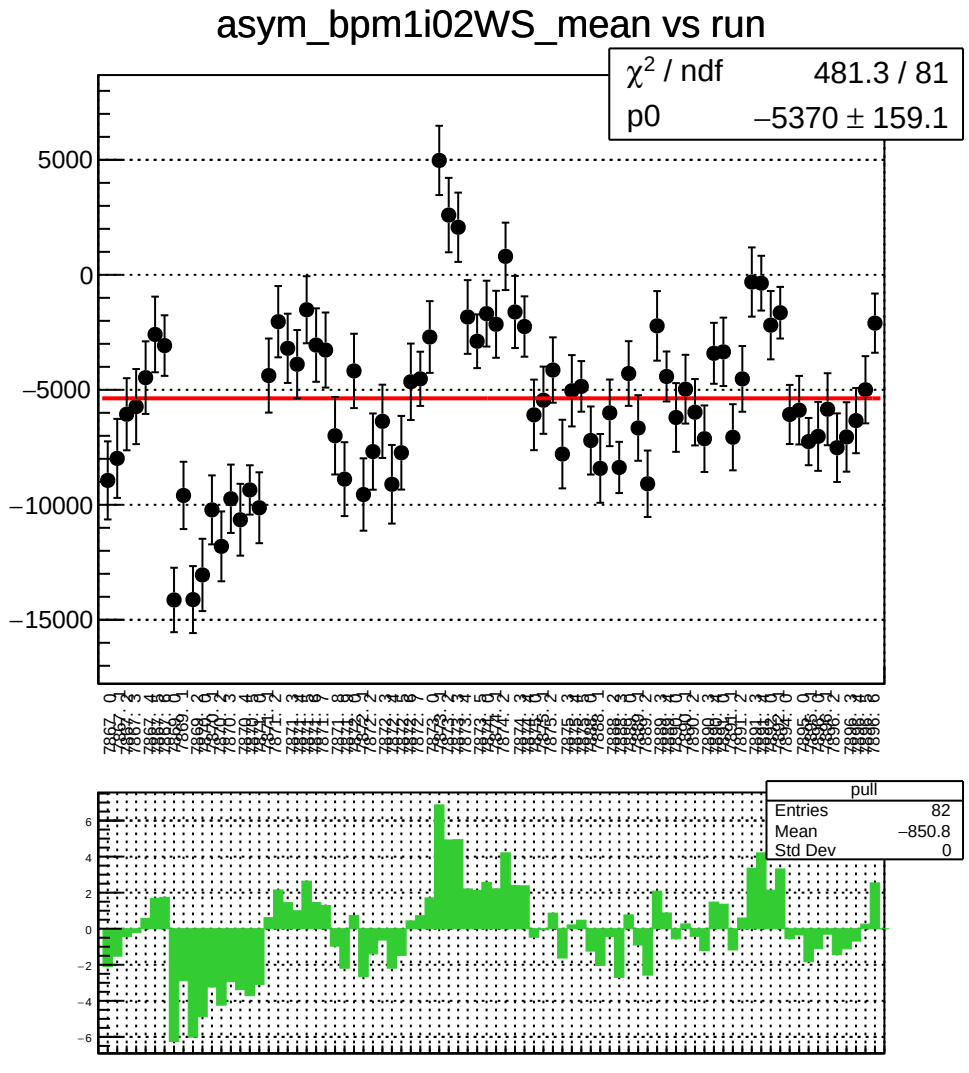

pull1D
Entries 82
Mean −0.7949
Std Dev 3.918

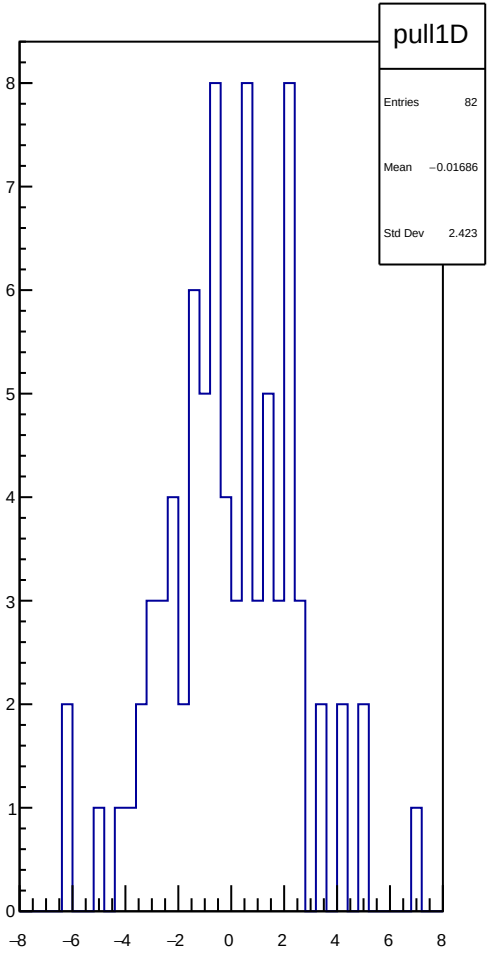

asym_bpm0i05WS_rms vs run
χ² / ndf 3343 / 81
p0 176.6 ± 0.1384
205
200
195
190
185
180
175
170
165
160

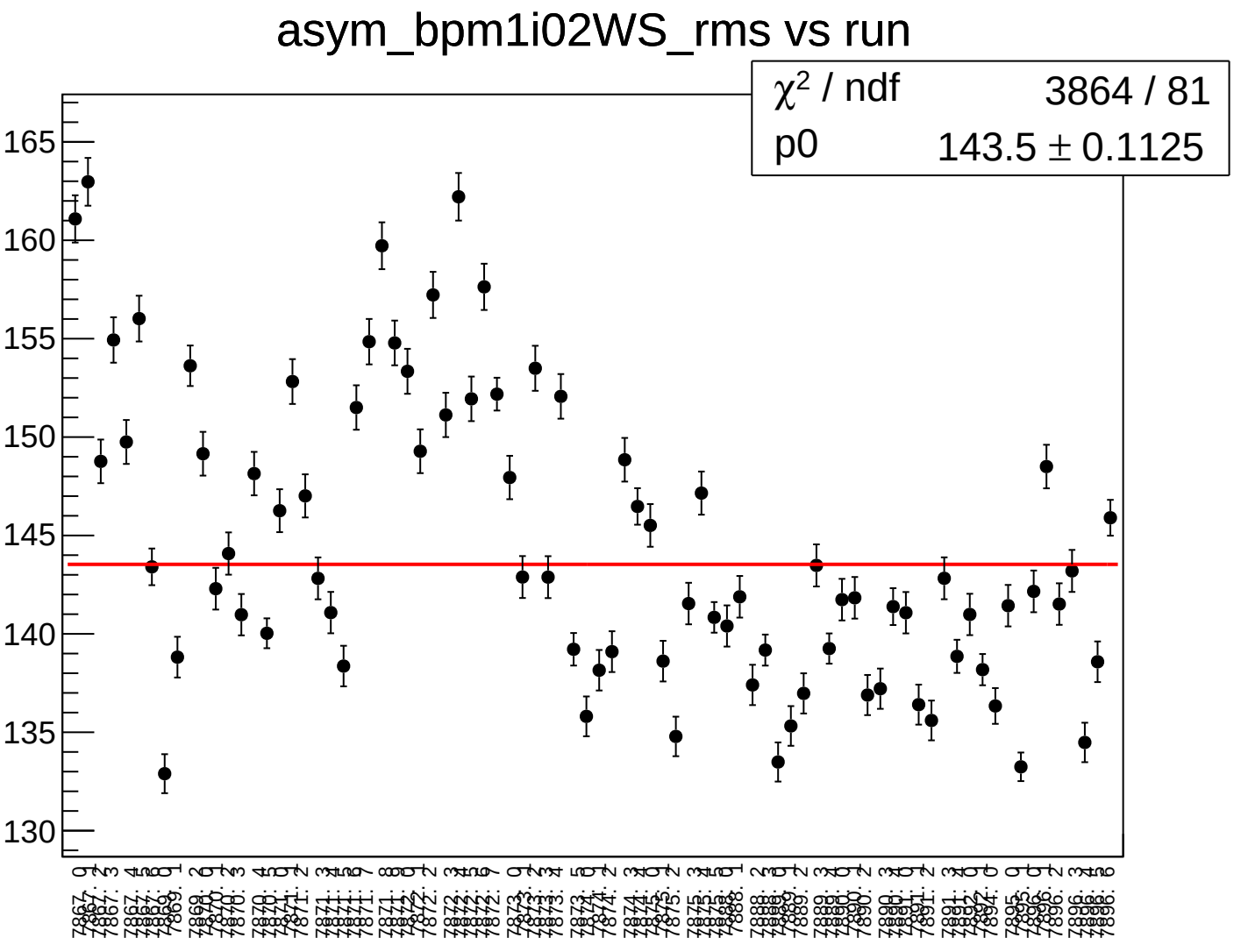

asym_bpm0i07WS_mean vs run
χ² / ndf 71.83 / 81
p0 −1622 ± 1638
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 6.835
Std Dev 55.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

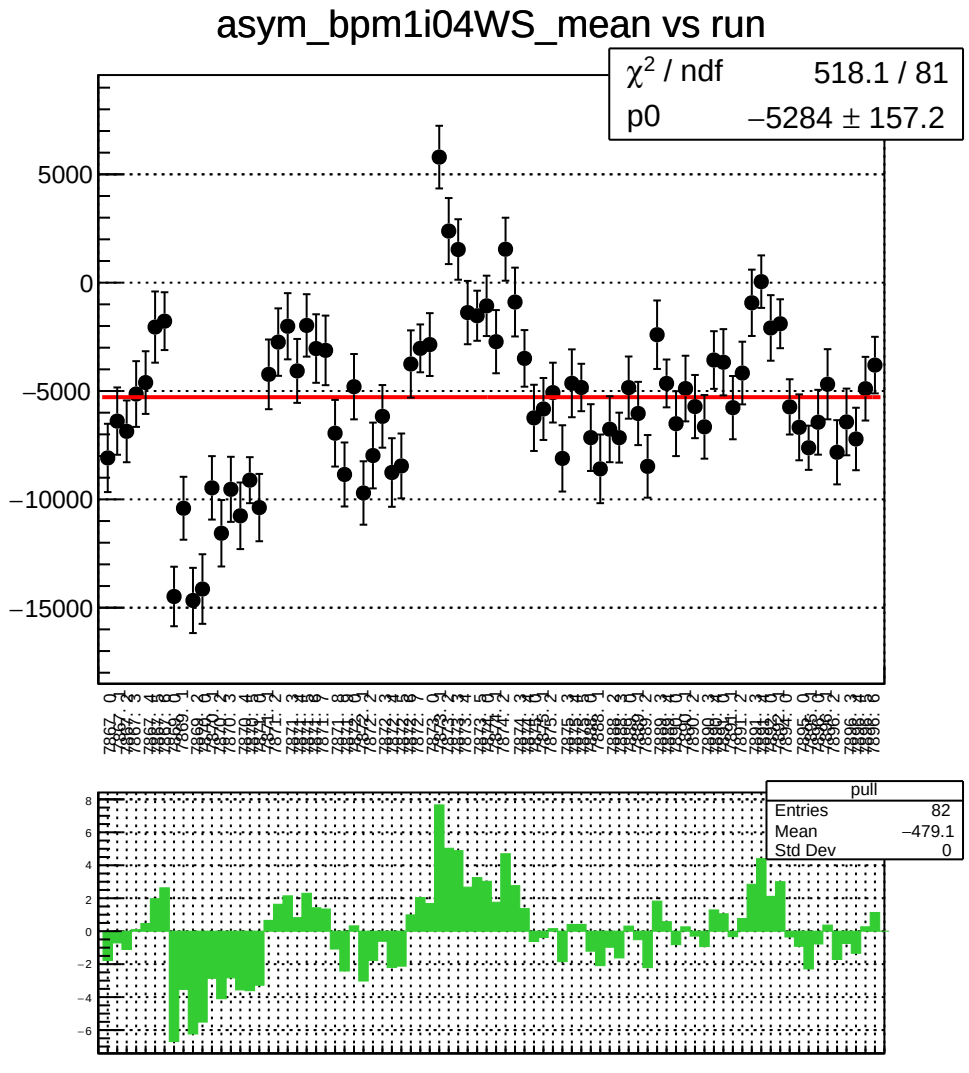

pull1D
Entries 82
Mean −0.008724
Std Dev 0.9359
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

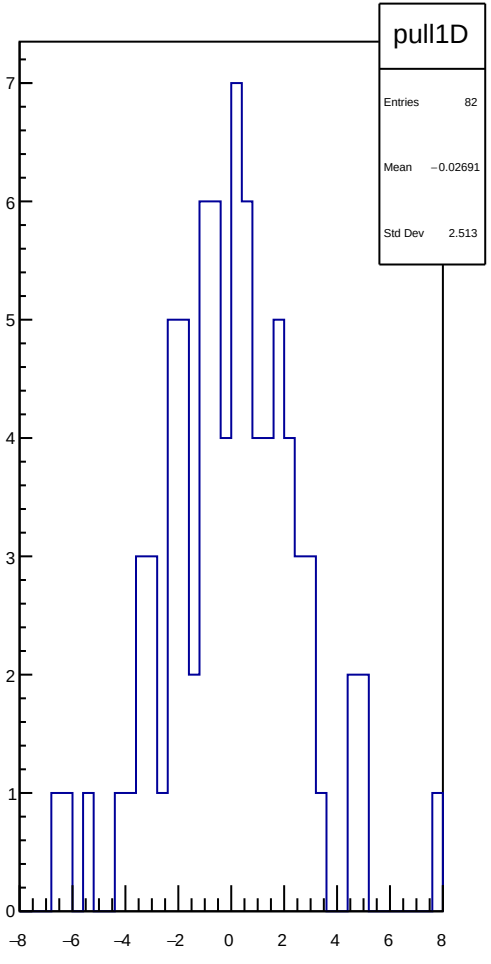

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9709 / 81
p0 1475 ± 1.158
1800
1700
1600
1500
1400
1300
1200

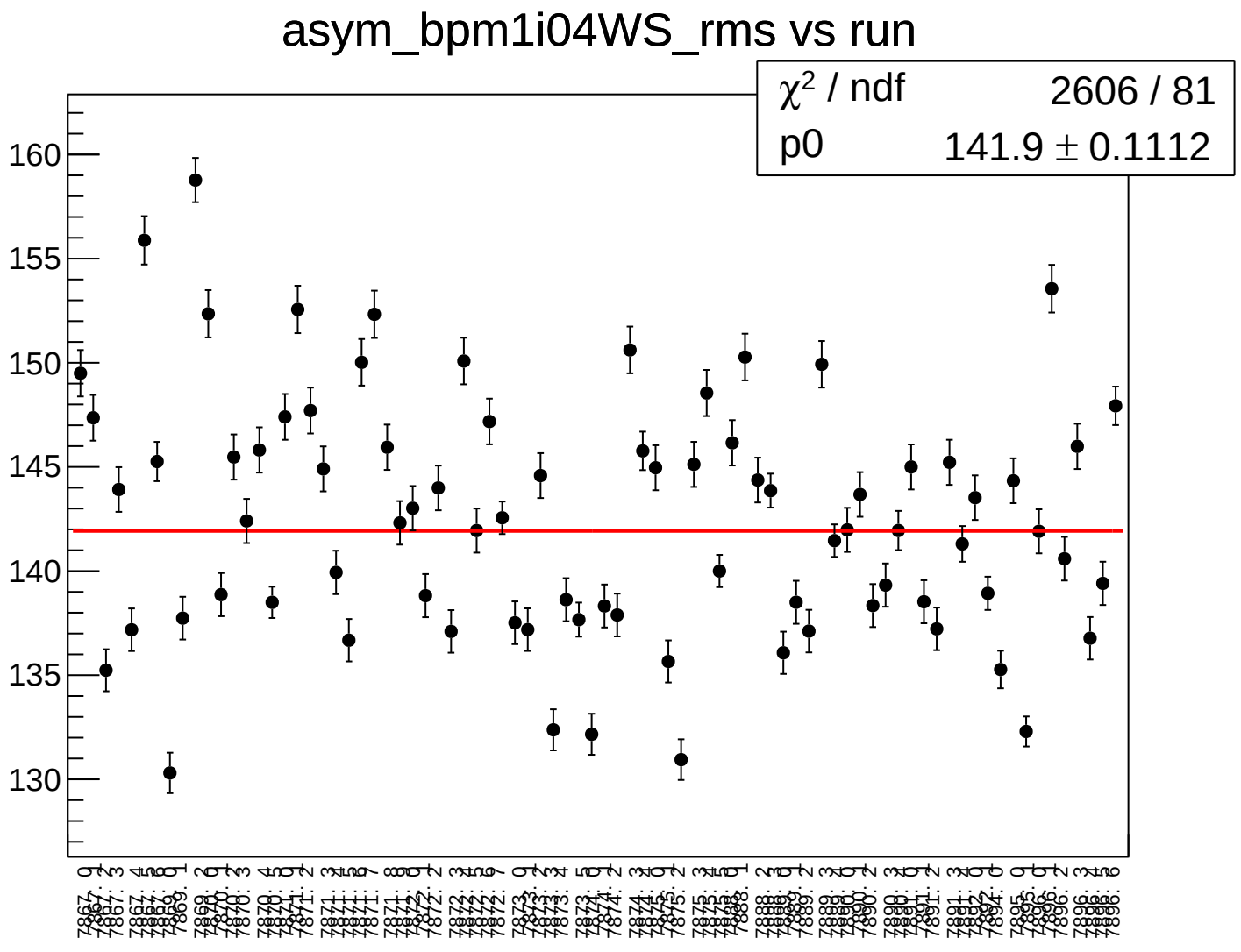

asym_bpm1i02WS_mean vs run
χ² / ndf 481.3 / 81
p0 −5370 ± 159.1
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −850.8
Std Dev 0
6
4
2
0
−2
−4
−6

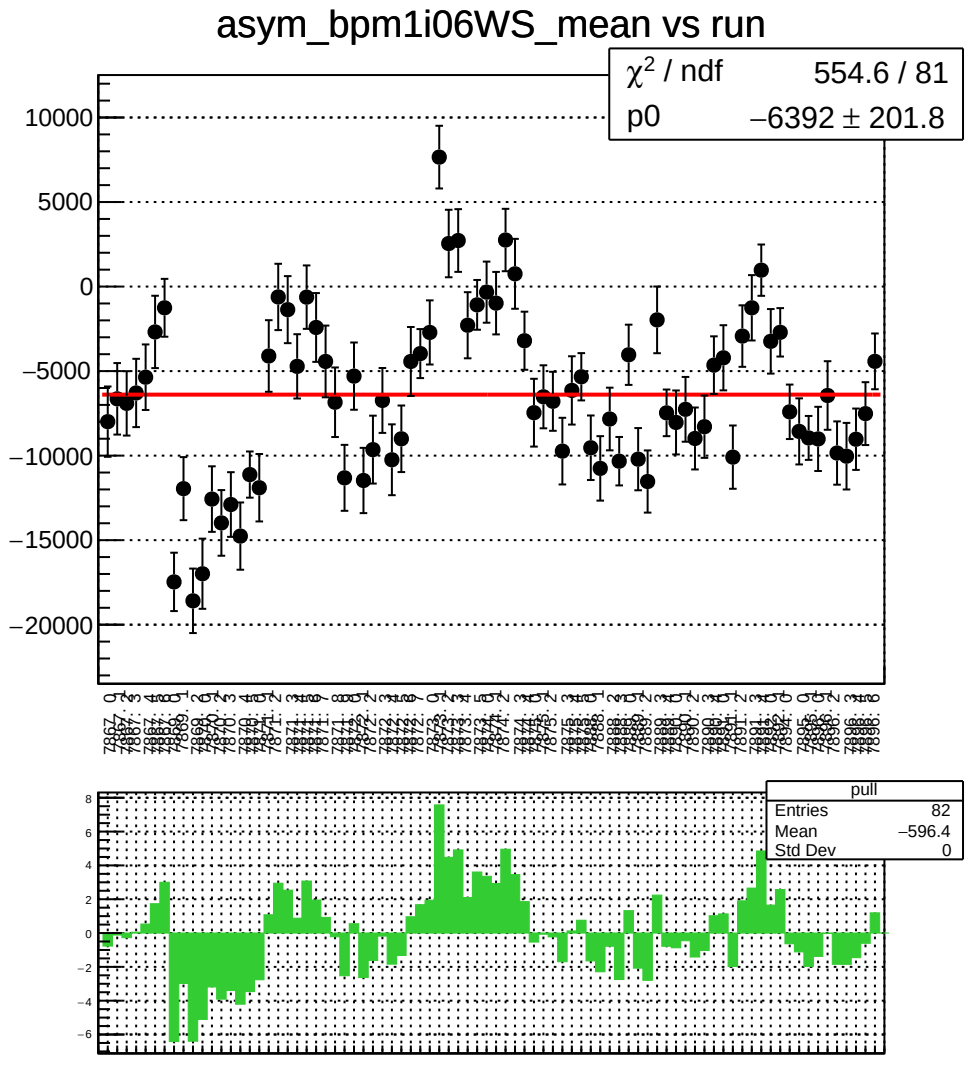

pull1D
Entries 82
Mean −0.01686
Std Dev 2.423
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

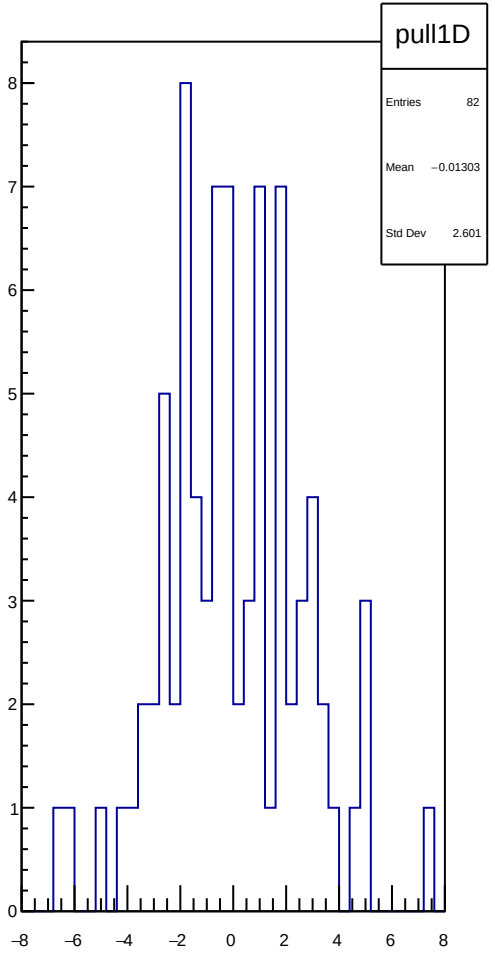

asym_bpm1i02WS_rms vs run
χ² / ndf 3864 / 81
p0 143.5 ± 0.1125
165
160
155
150
145
140
135
130

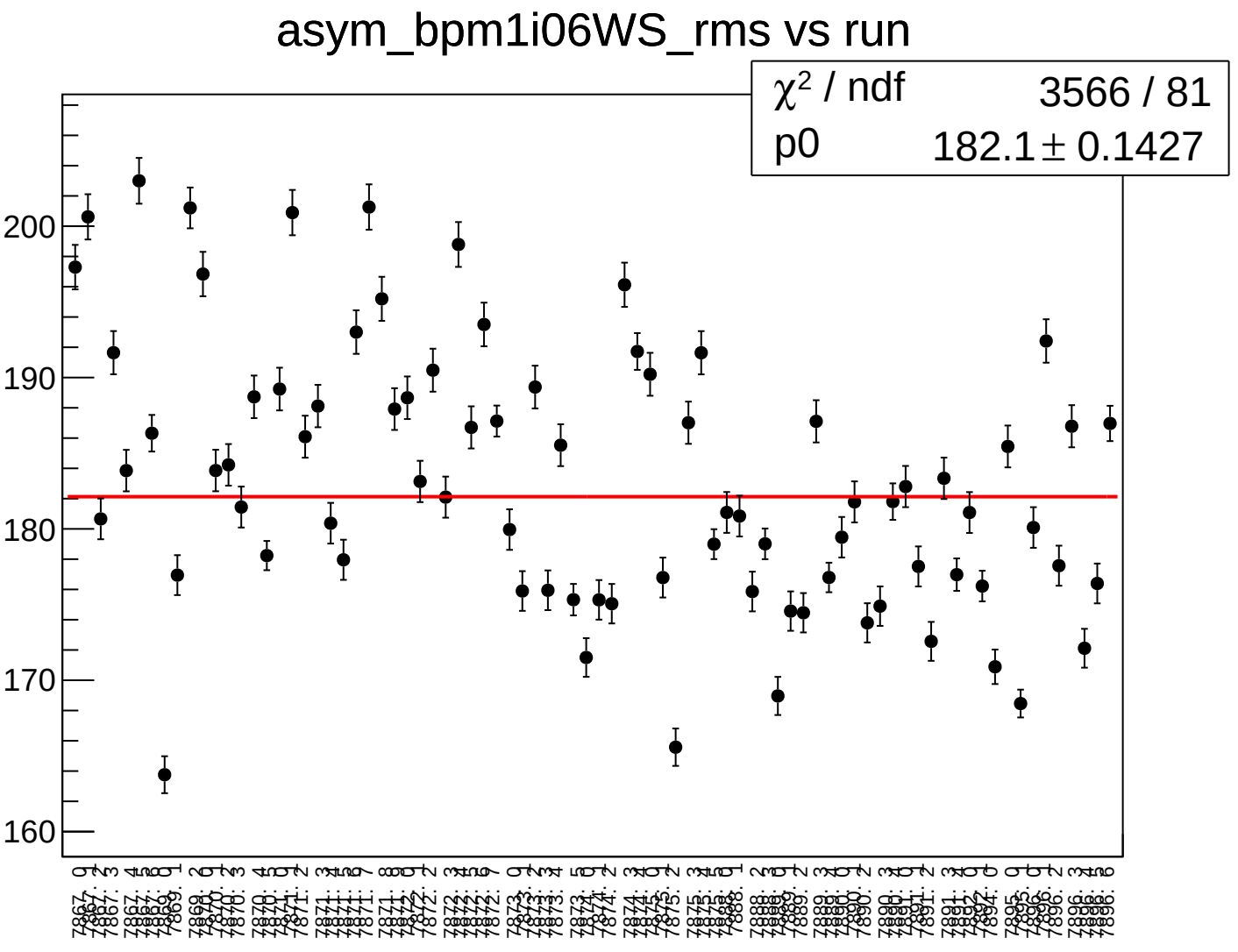

asym_bpm1i04WS_mean vs run
χ² / ndf 518.1 / 81
p0 −5284 ± 157.2
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −479.1
Std Dev 0
8
6
4
2
0
−2
−4
−6

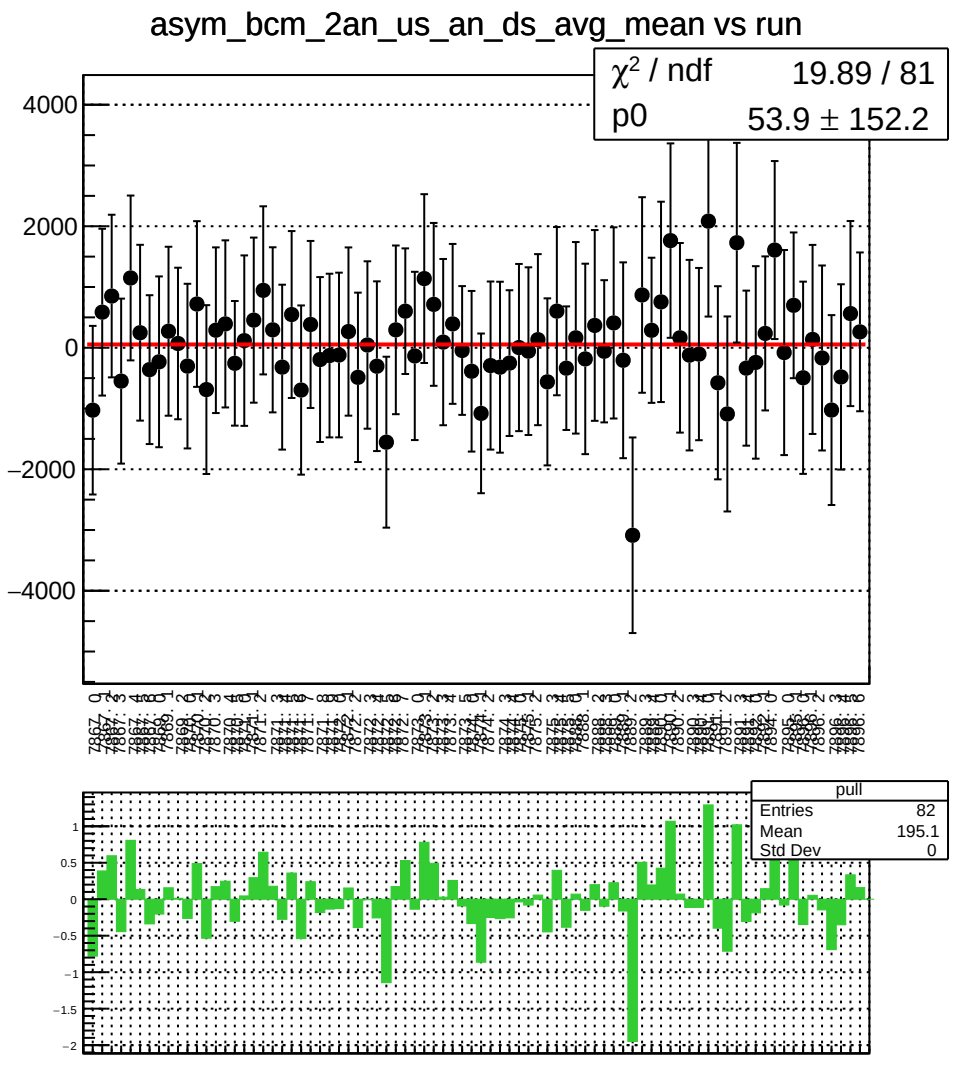

pull1D
Entries 82
Mean −0.02691
Std Dev 2.513
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

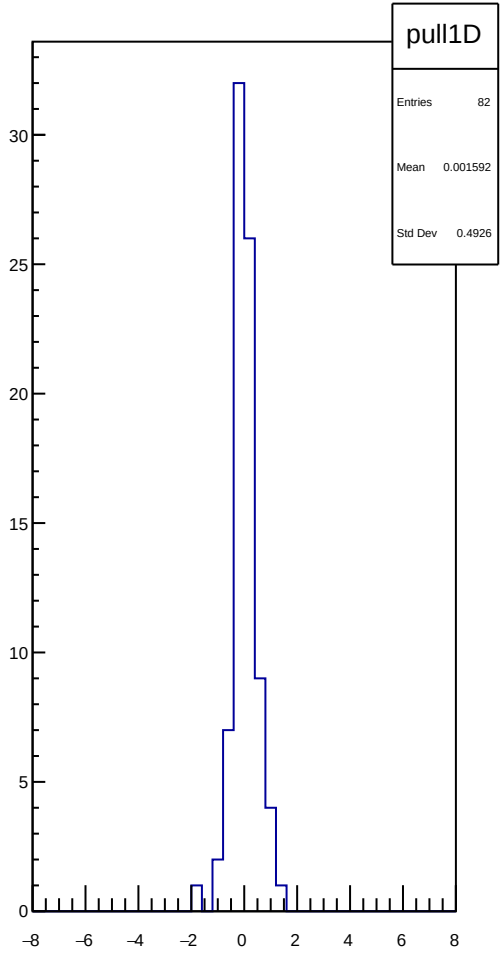

asym_bpm1i04WS_rms vs run
χ² / ndf 2606 / 81
p0 141.9 ± 0.1112
160
155
150
145
140
135
130

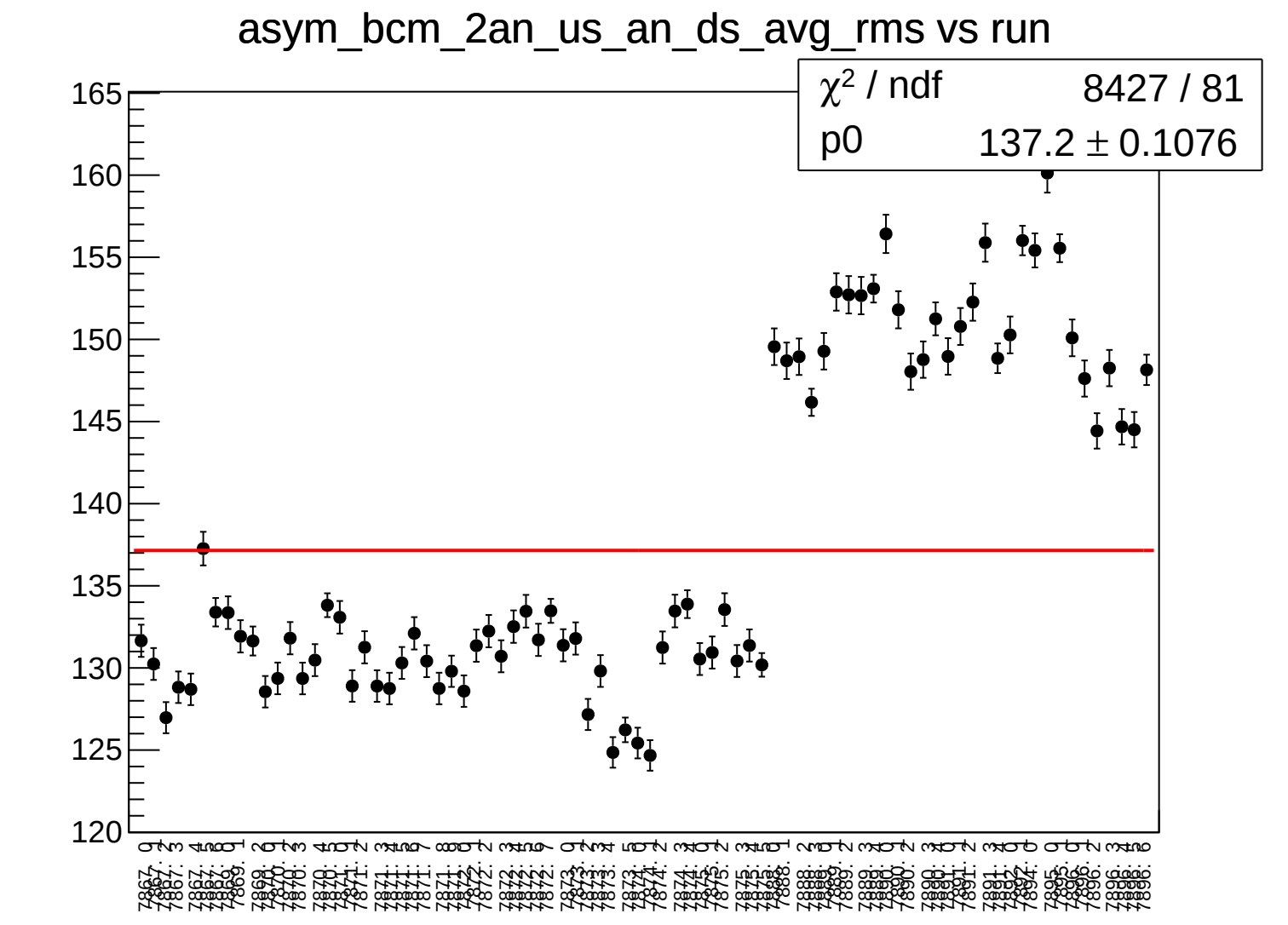

asym_bpm1i06WS_mean vs run
χ² / ndf 554.6 / 81
p0 −6392 ± 201.8
pull
Entries 82
Mean −596.4
Std Dev 0

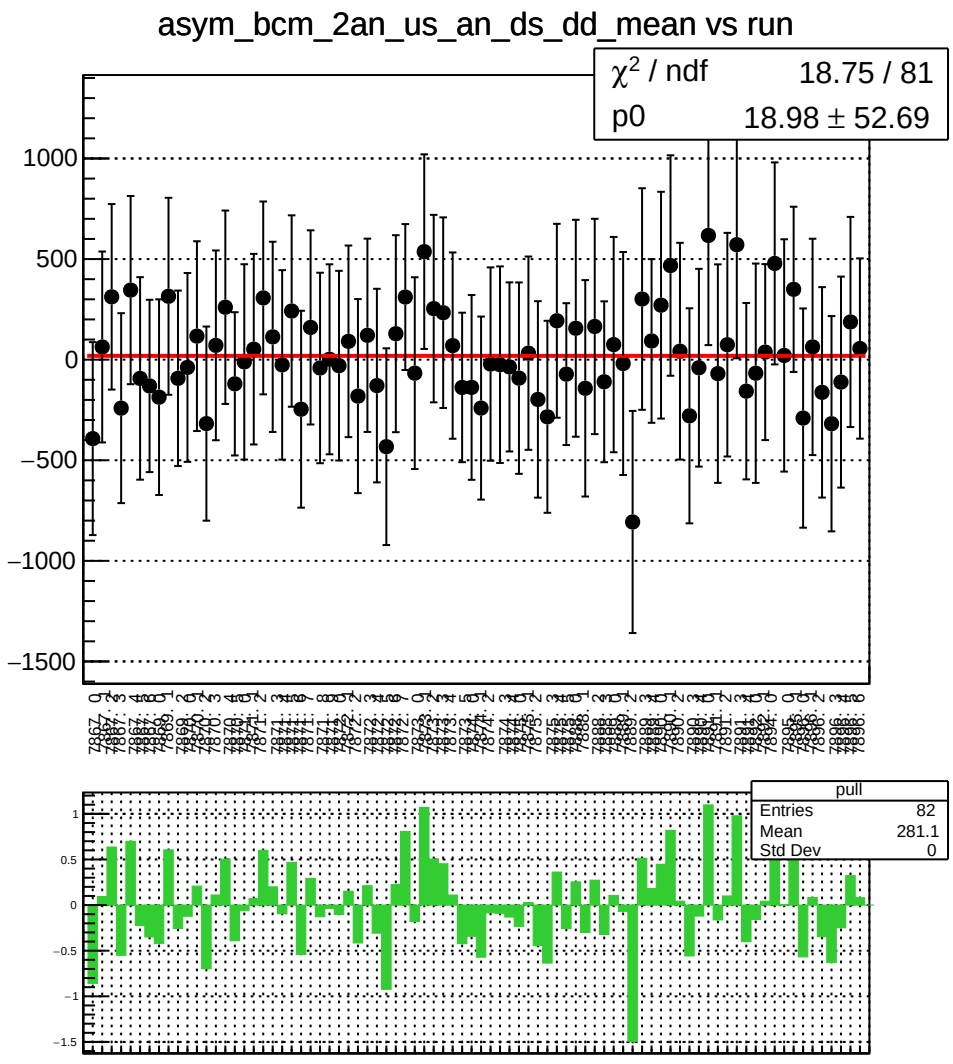

pull1D
Entries 82
Mean −0.01303
Std Dev 2.601

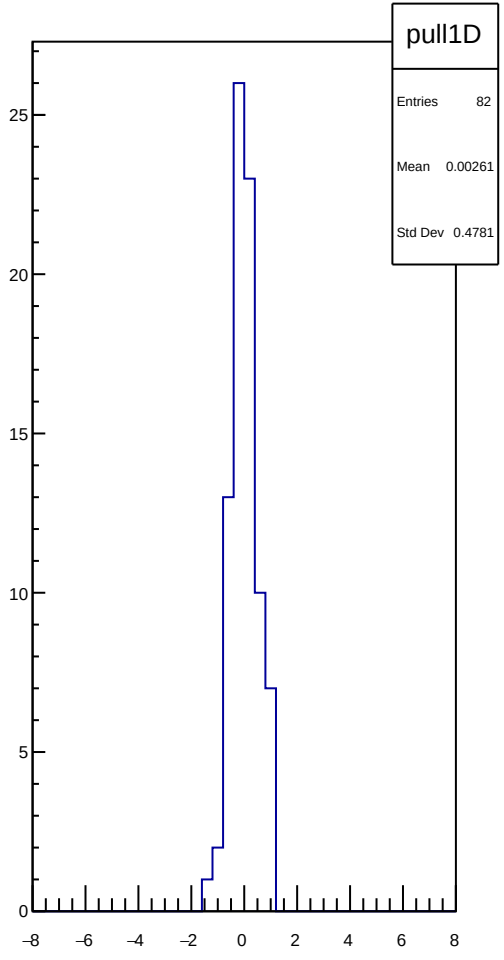

asym_bpm1i06WS_rms vs run
χ² / ndf 3566 / 81
p0 182.1 ± 0.1427
200
190
180
170
160

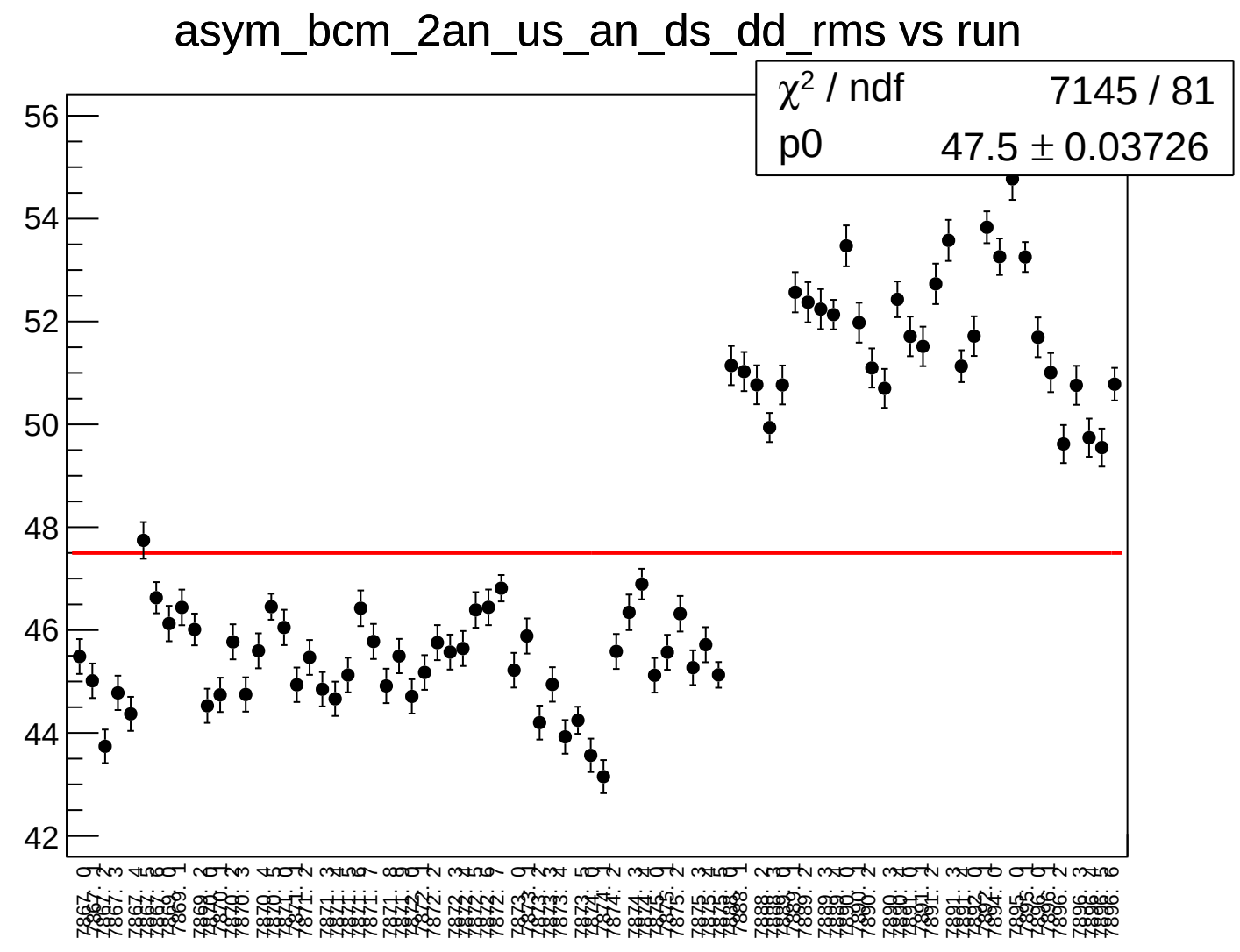

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 19.89 / 81
p0 53.9 ± 152.2
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 195.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

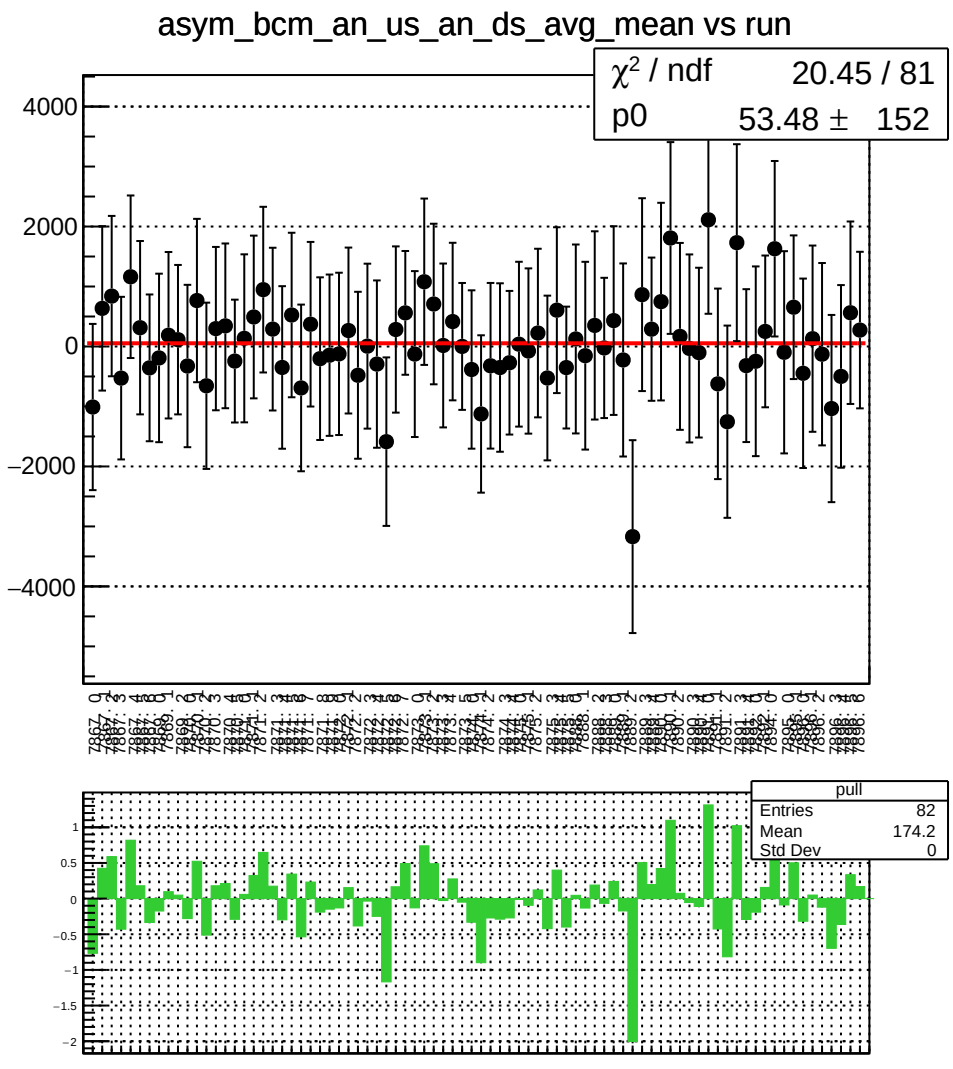

pull1D
Entries 82
Mean 0.001592
Std Dev 0.4926
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

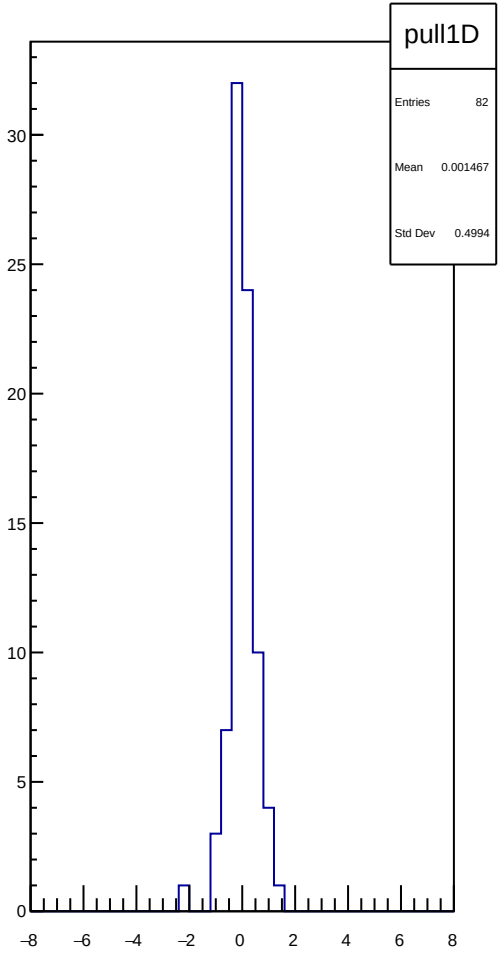

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 8427 / 81
p0 137.2 ± 0.1076
165
160
155
150
145
140
135
130
125
120

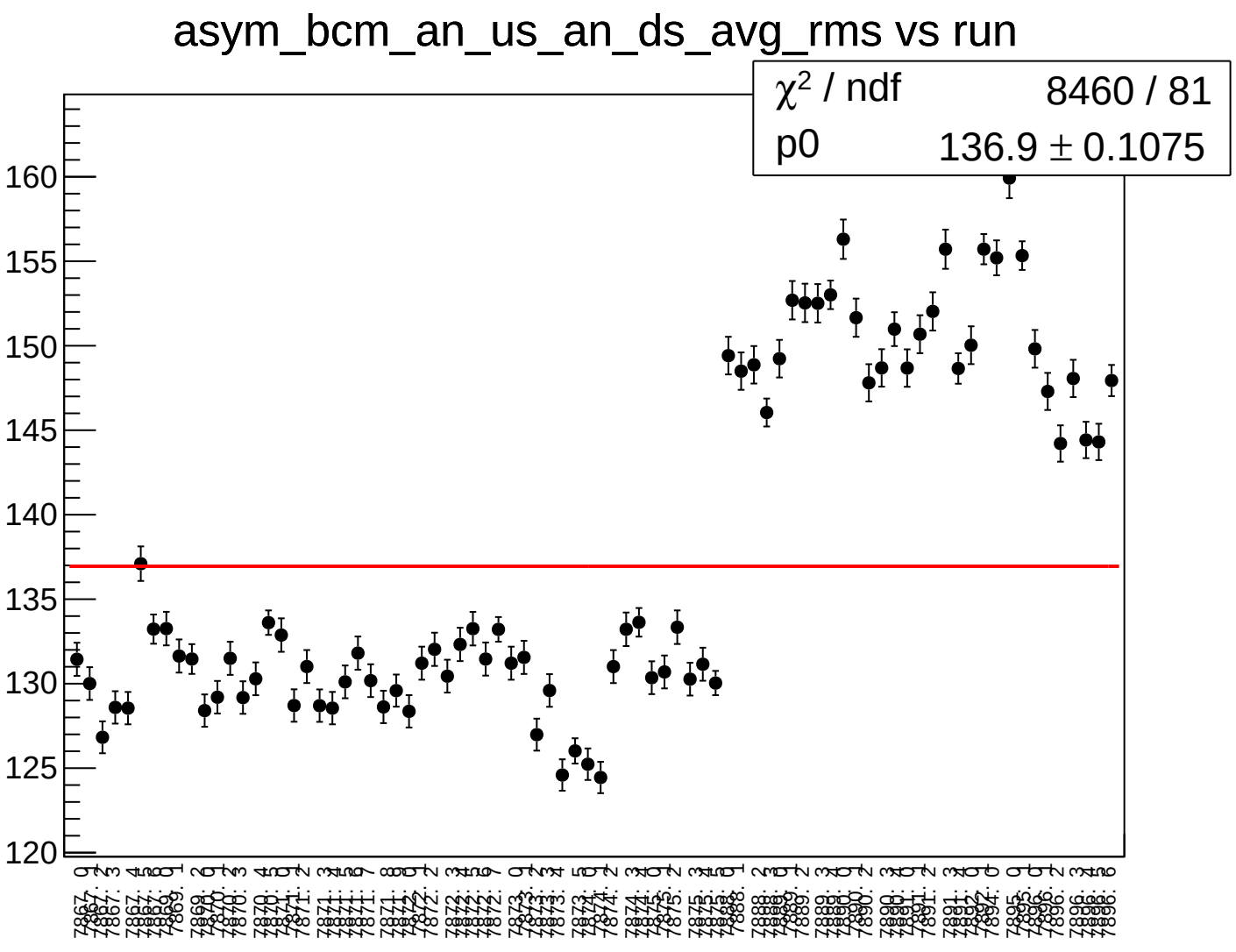

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 18.75 / 81
p0 18.98 ± 52.69
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean 281.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

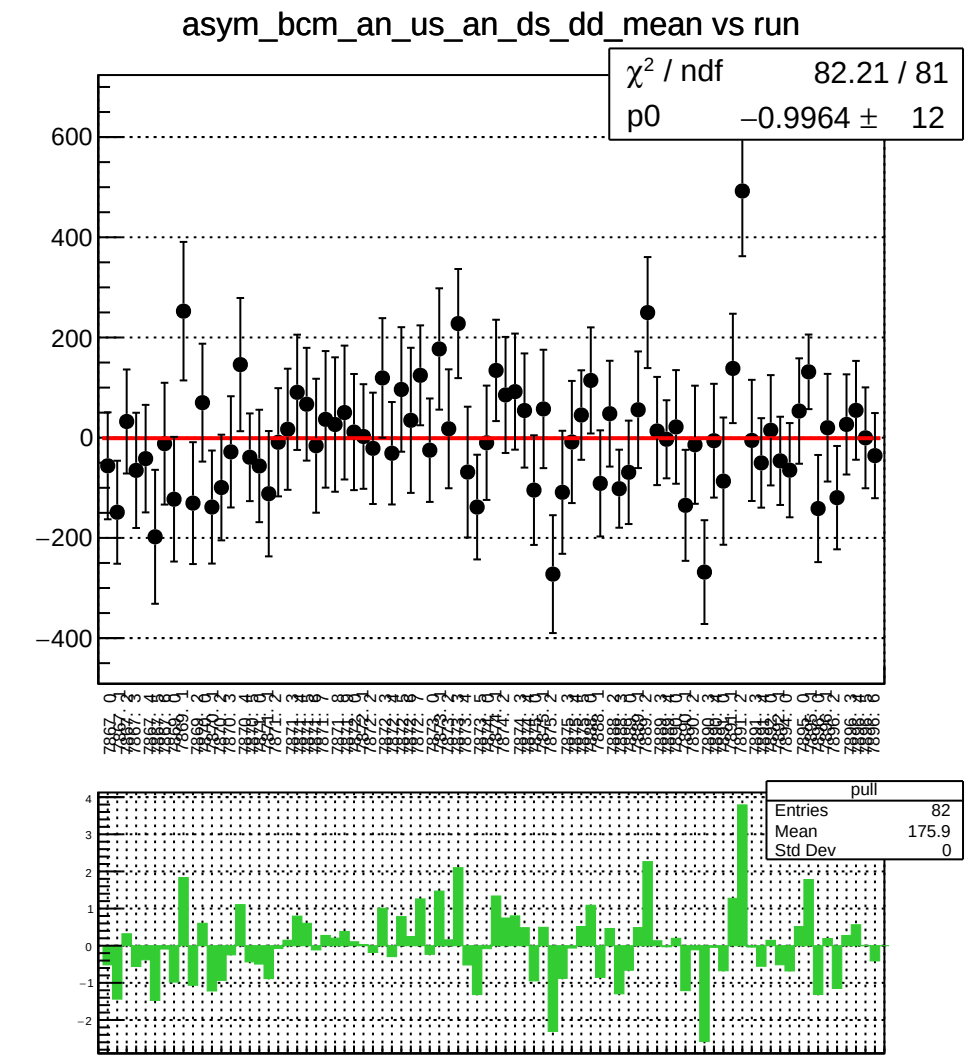

pull1D
Entries 82
Mean 0.00261
Std Dev 0.4781
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

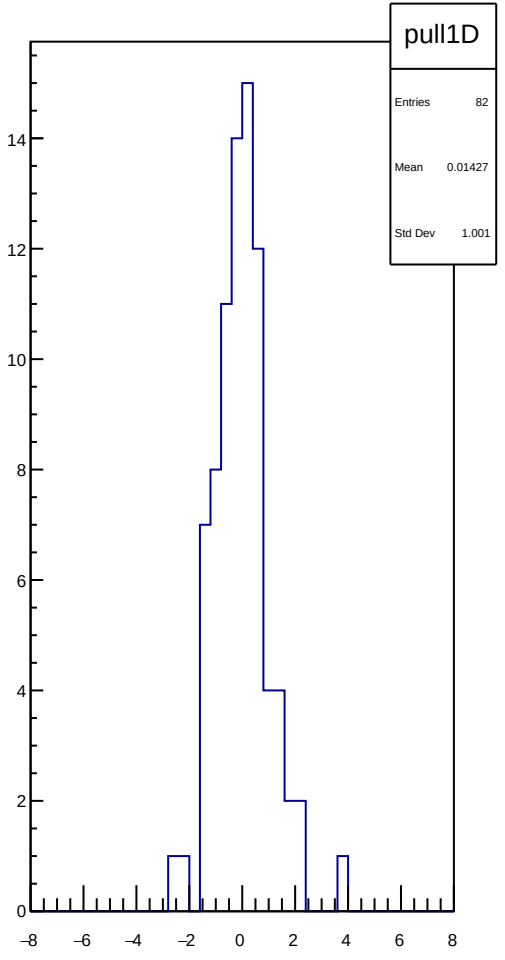

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 7145 / 81
p0 47.5 ± 0.03726
56
54
52
50
48
46
44
42

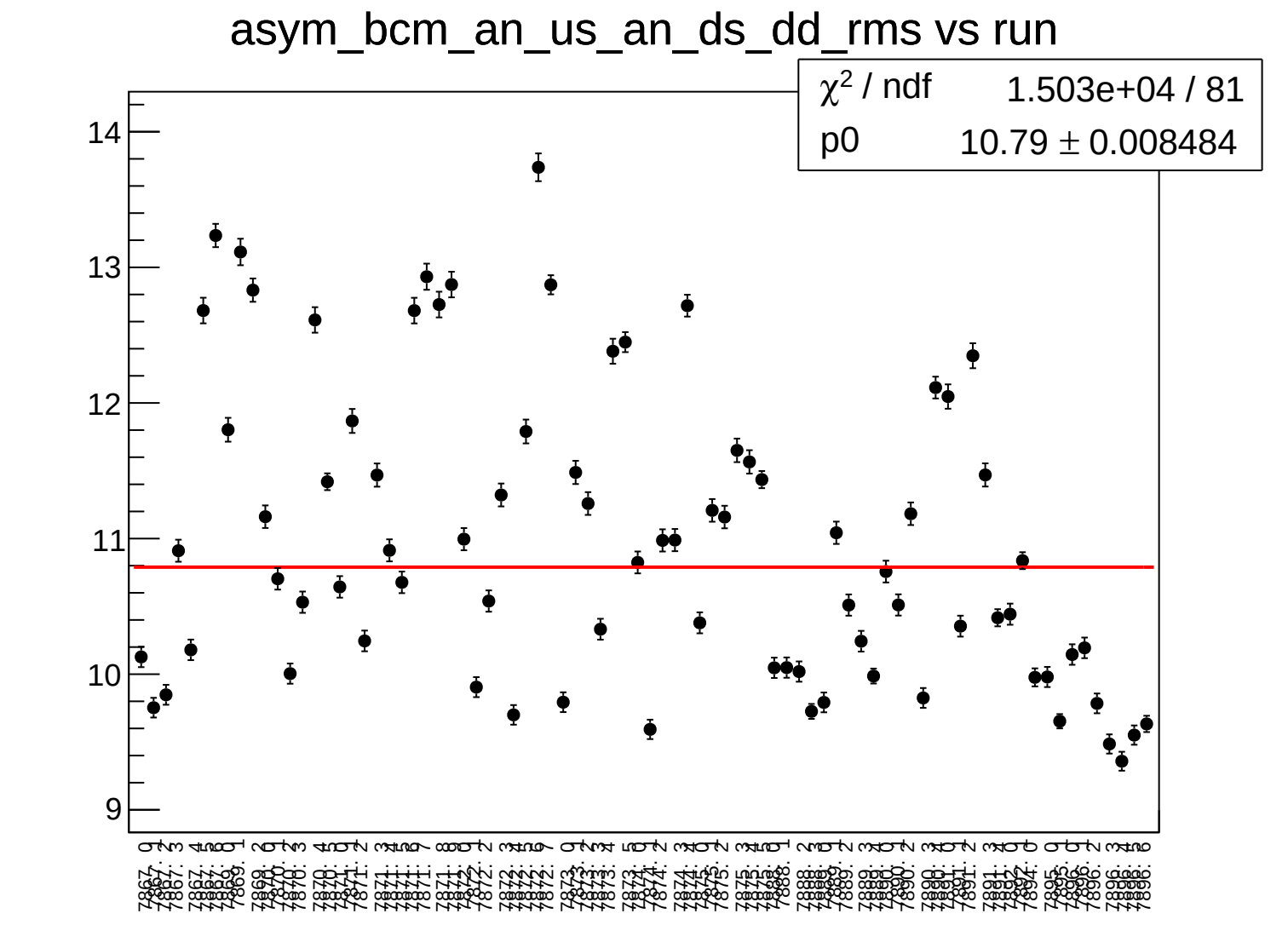

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 20.45 / 81
p0 53.48 ± 152
pull
Entries 82
Mean 174.2
Std Dev 0

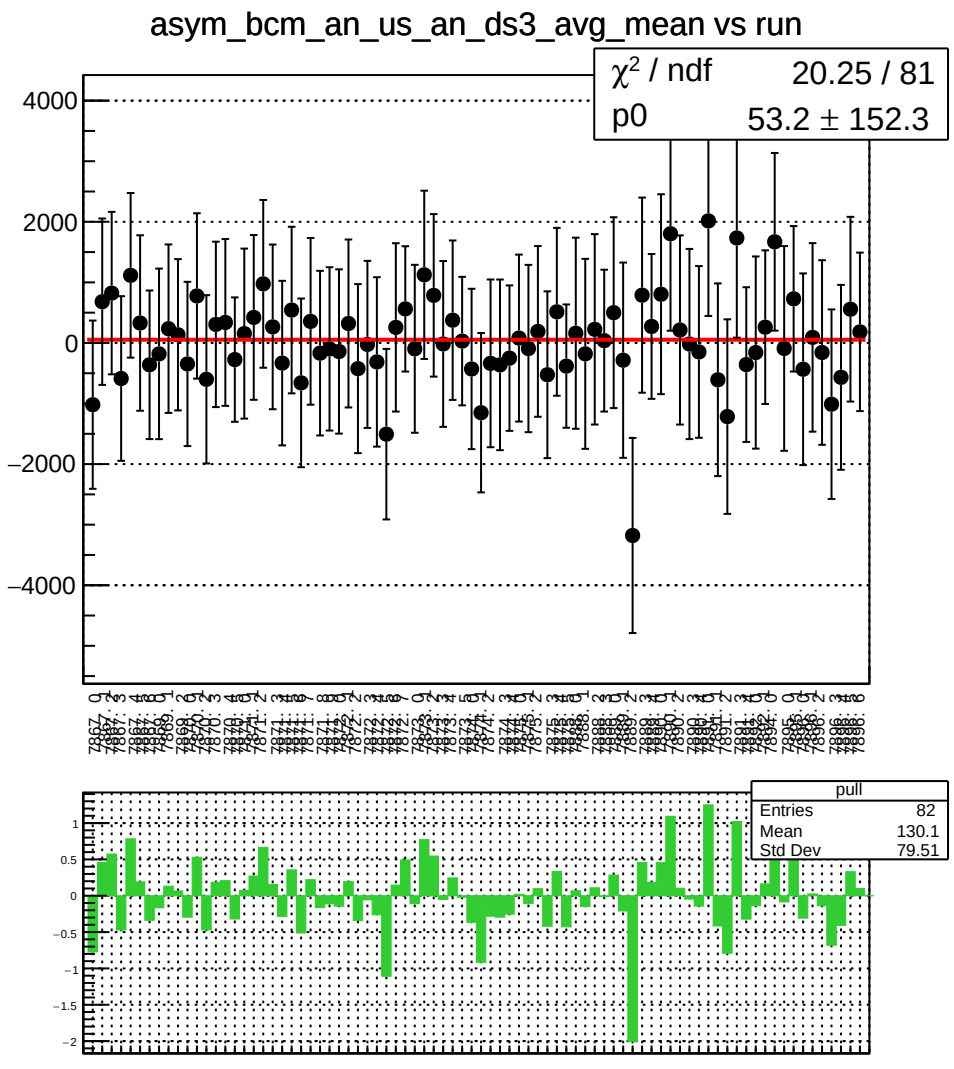

pull1D
Entries 82
Mean 0.001467
Std Dev 0.4994

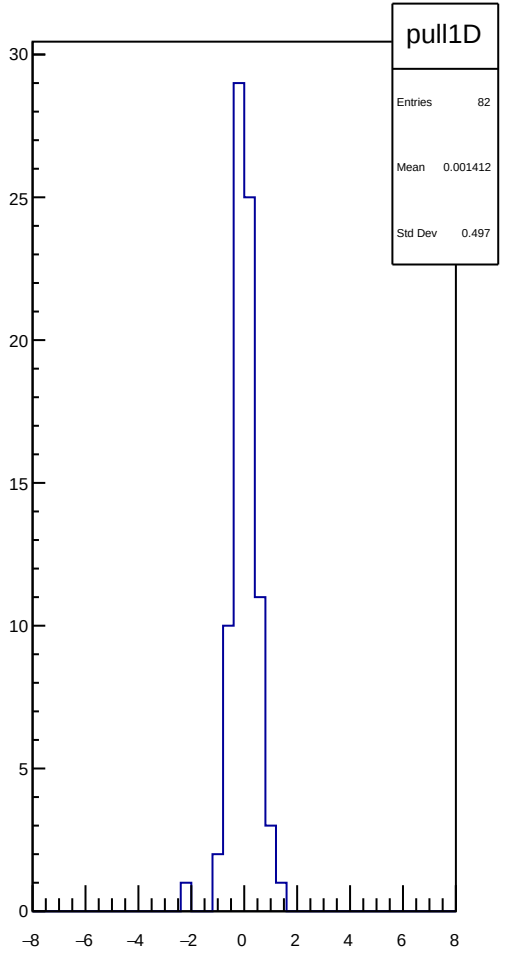

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 8460 / 81
p0 136.9 ± 0.1075
160
155
150
145
140
135
130
125
120

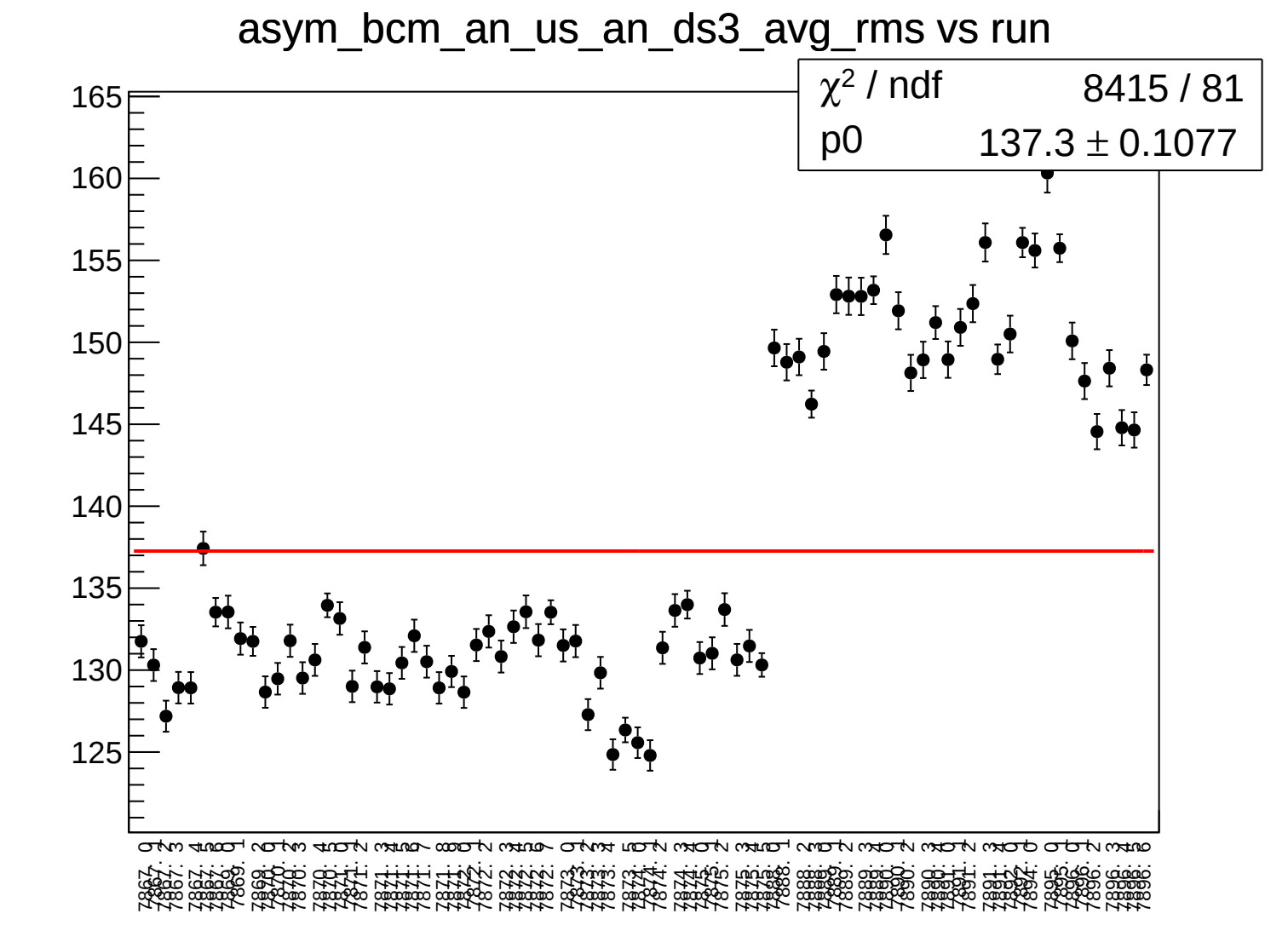

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 82.21 / 81
p0 −0.9964 ± 12
pull
Entries 82
Mean 175.9
Std Dev 0

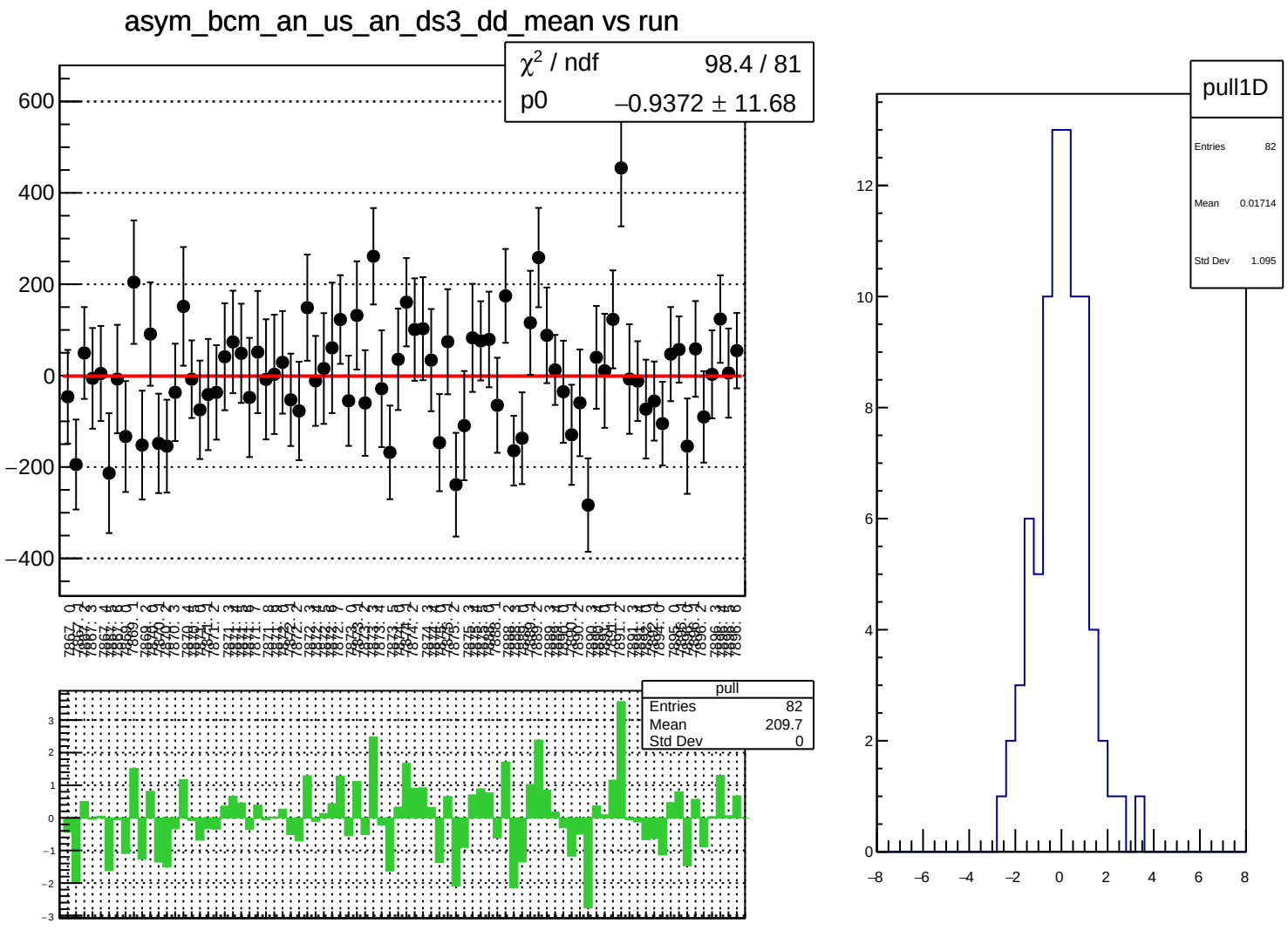

pull1D
Entries 82
Mean 0.01427
Std Dev 1.001

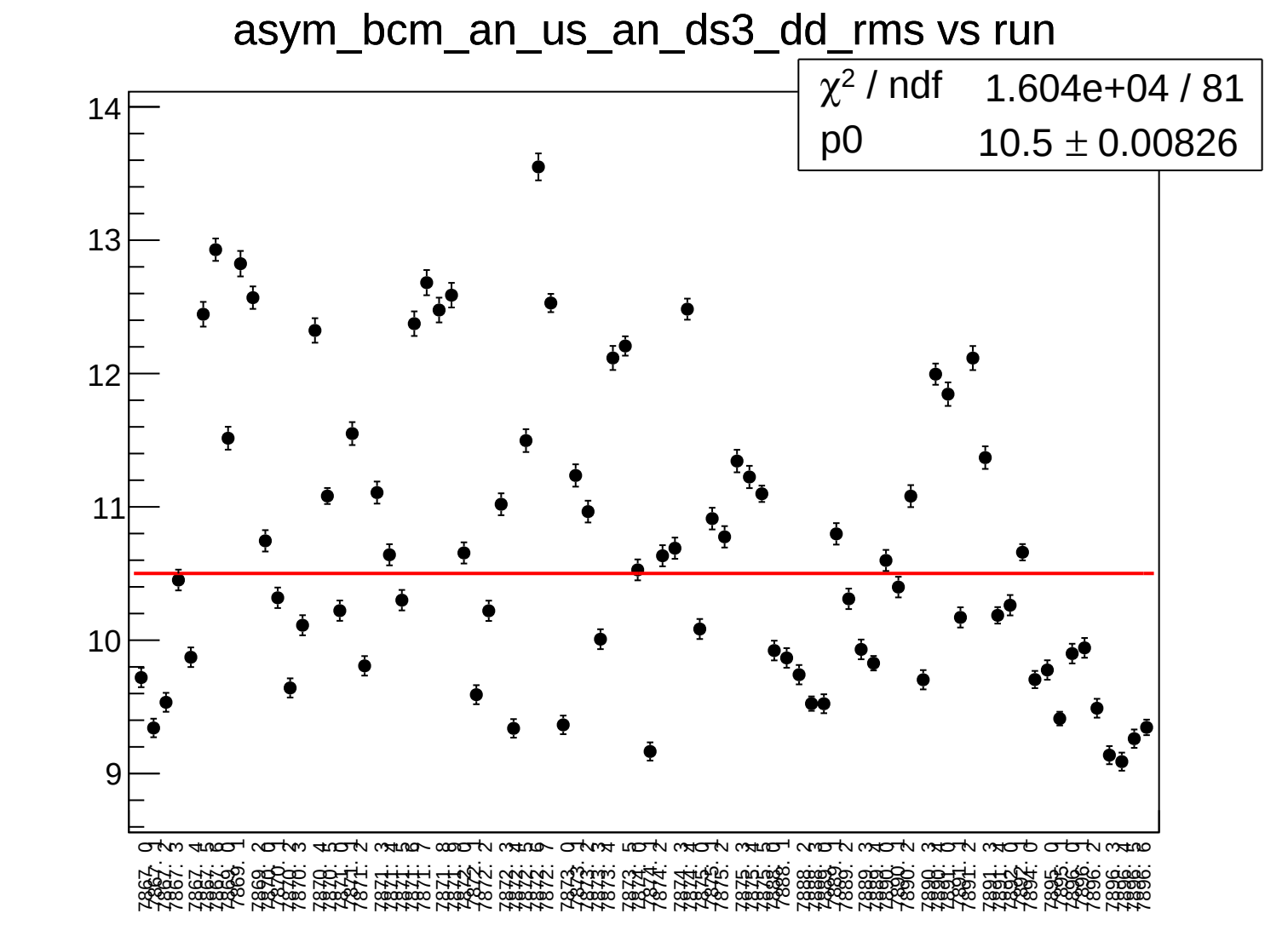

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 1.503e+04 / 81
p0 10.79 ± 0.008484
14
13
12
11
10
9

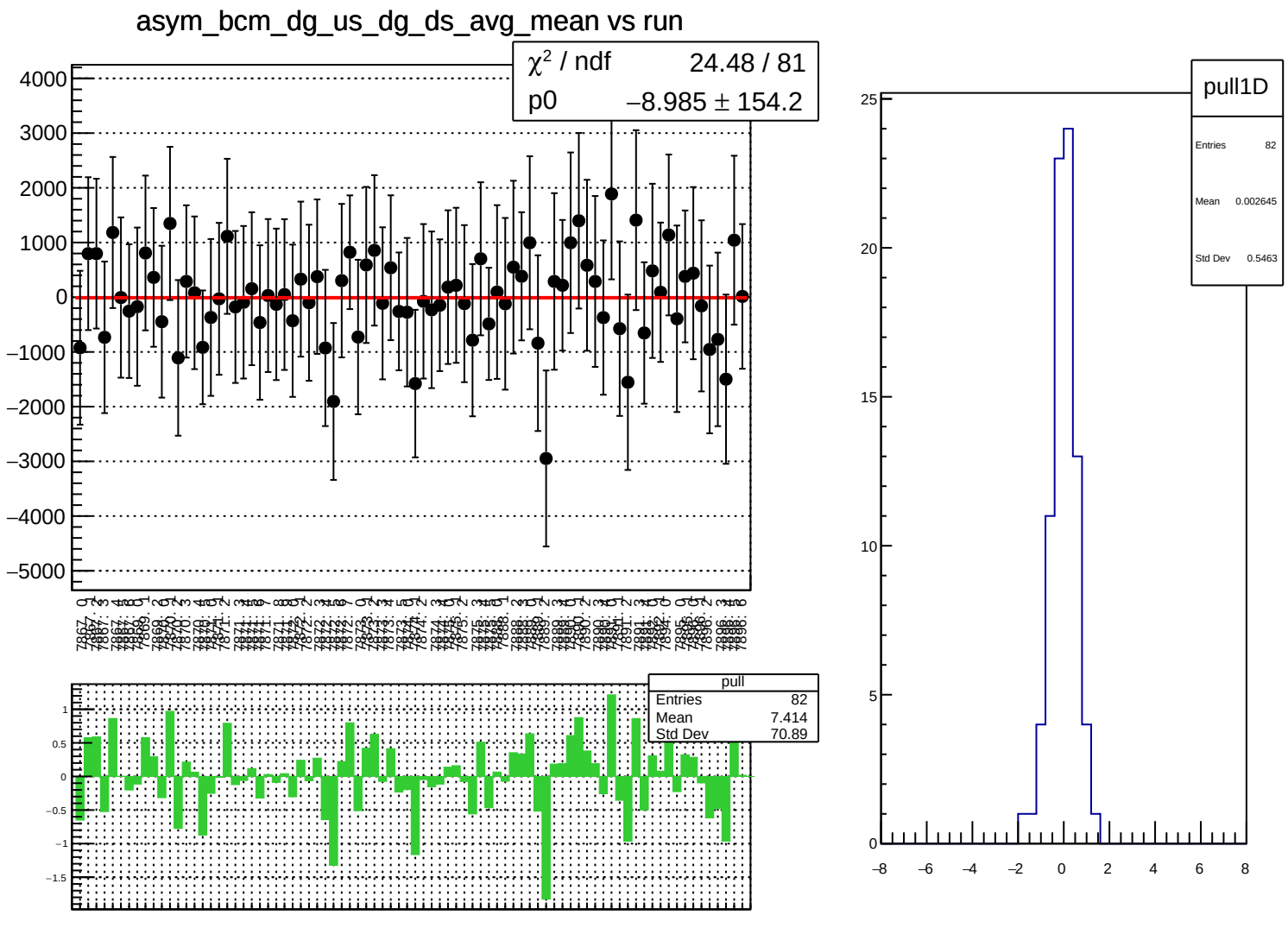

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 20.25 / 81
p0 53.2 ± 152.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 130.1
Std Dev 79.51
1
0.5
0
−0.5
−1
−1.5
−2

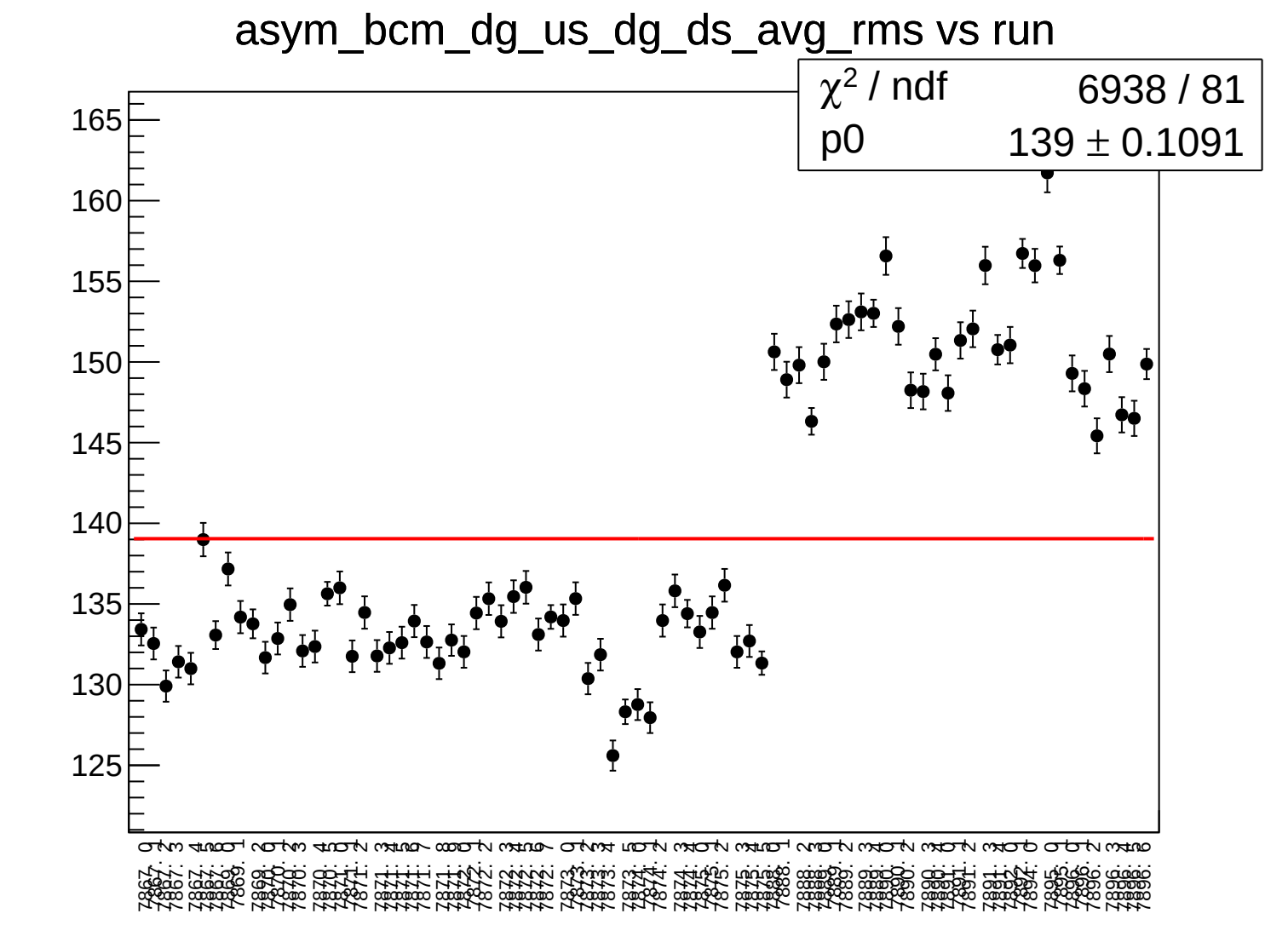

pull1D
Entries 82
Mean 0.001412
Std Dev 0.497
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

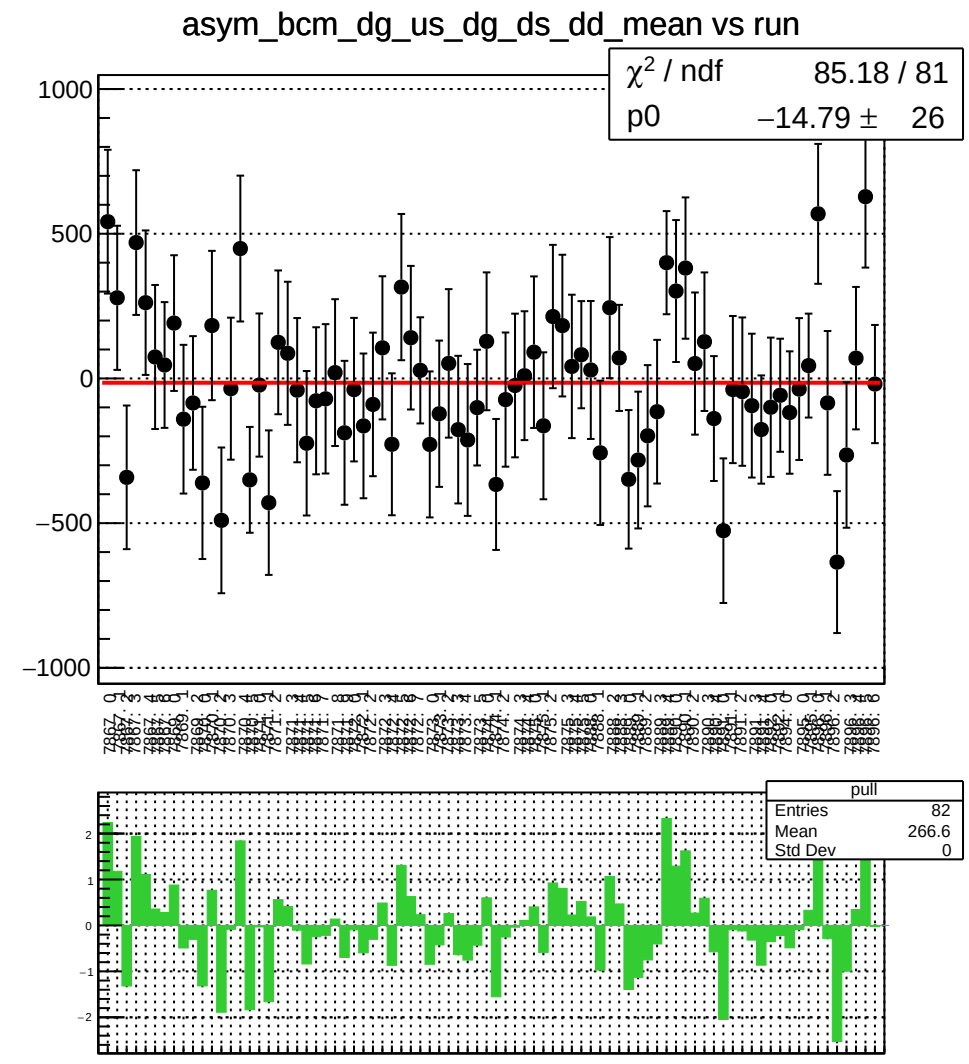

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 8415 / 81
p0 137.3 ± 0.1077
165
160
155
150
145
140
135
130
125

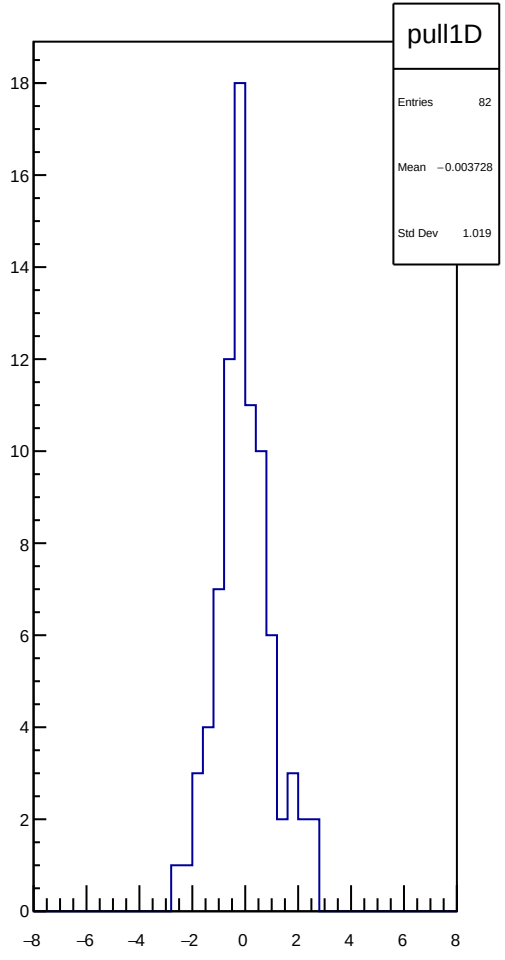

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 98.4 / 81
p0 −0.9372 ± 11.68
600
400
200
0
−200
−400
pull
Entries 82
Mean 209.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.01714
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

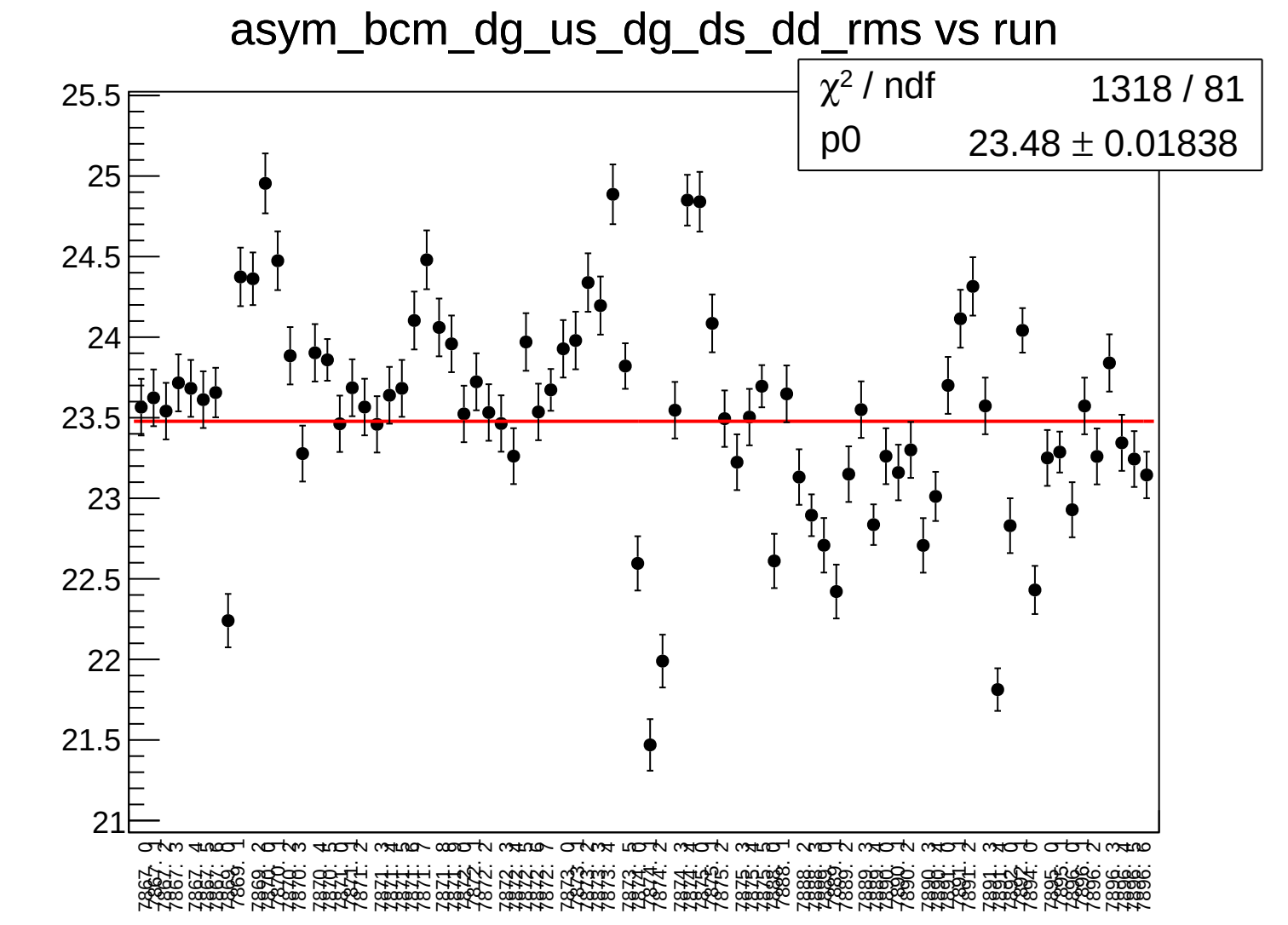

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.604e+04 / 81
p0 10.5 ± 0.00826
14
13
12
11
10
9

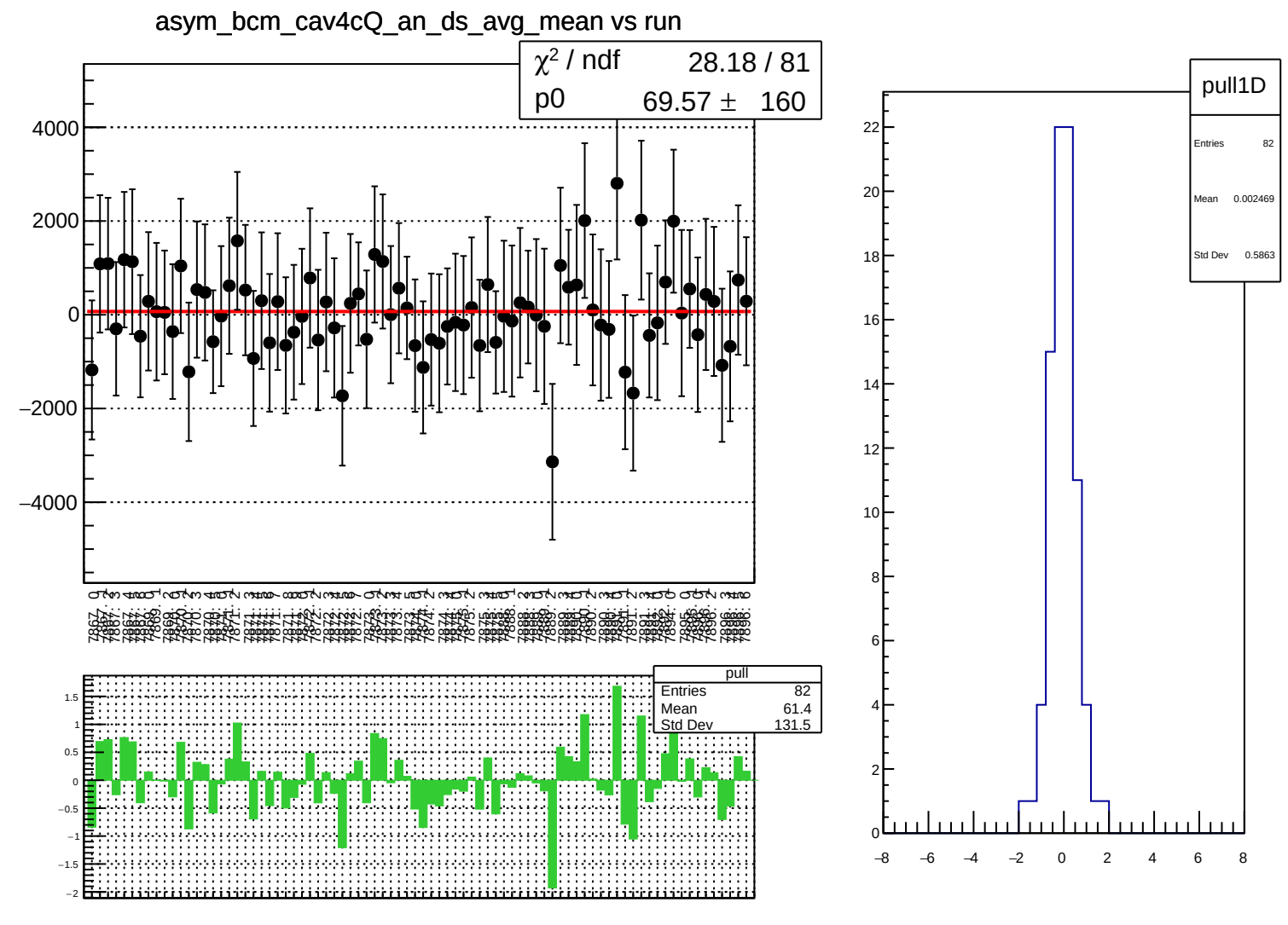

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 24.48 / 81
p0 −8.985 ± 154.2
pull
Entries 82
Mean 7.414
Std Dev 70.89
pull1D
Entries 82
Mean 0.002645
Std Dev 0.5463

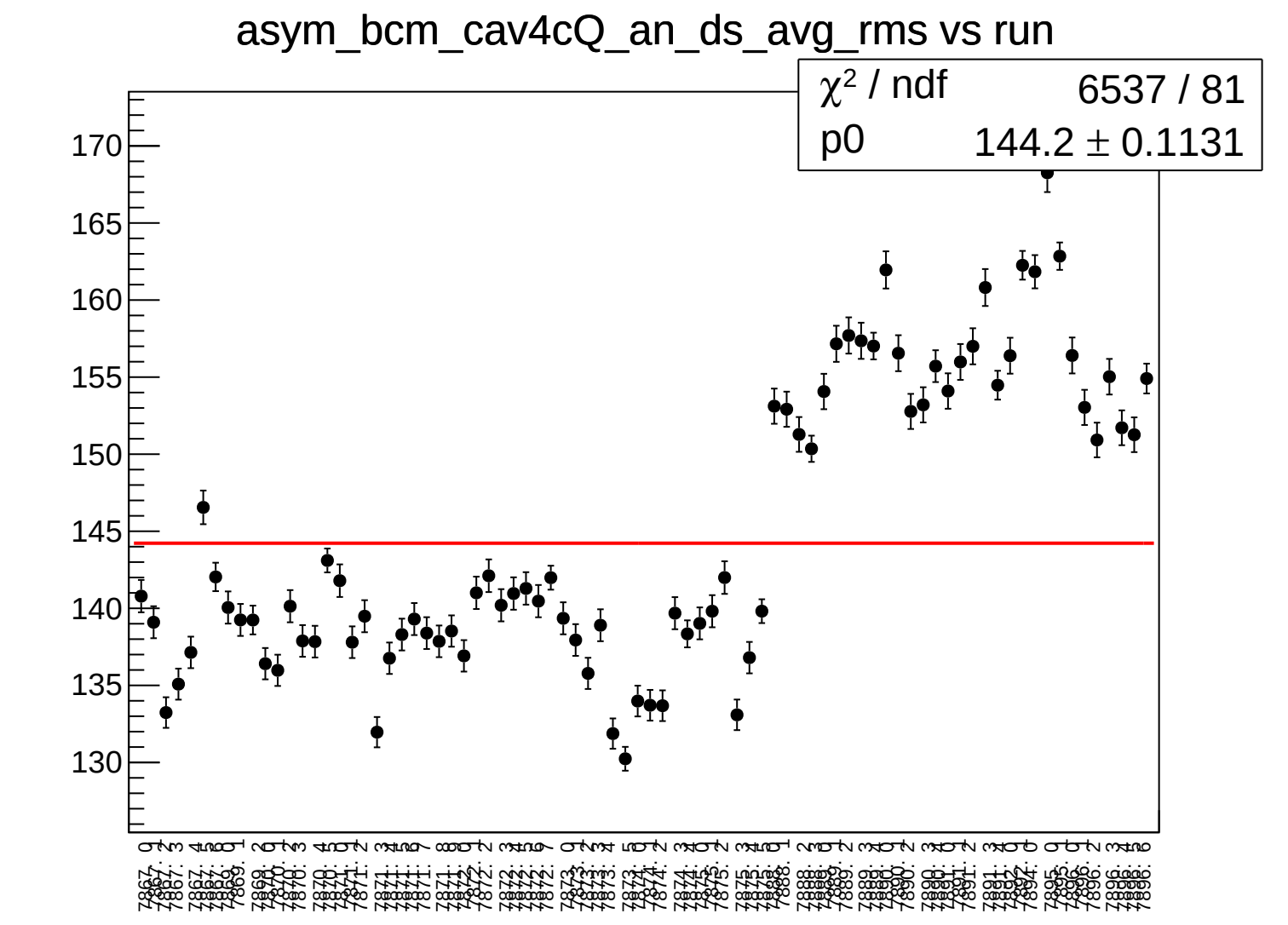

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 6938 / 81
p0 139 ± 0.1091
165
160
155
150
145
140
135
130
125

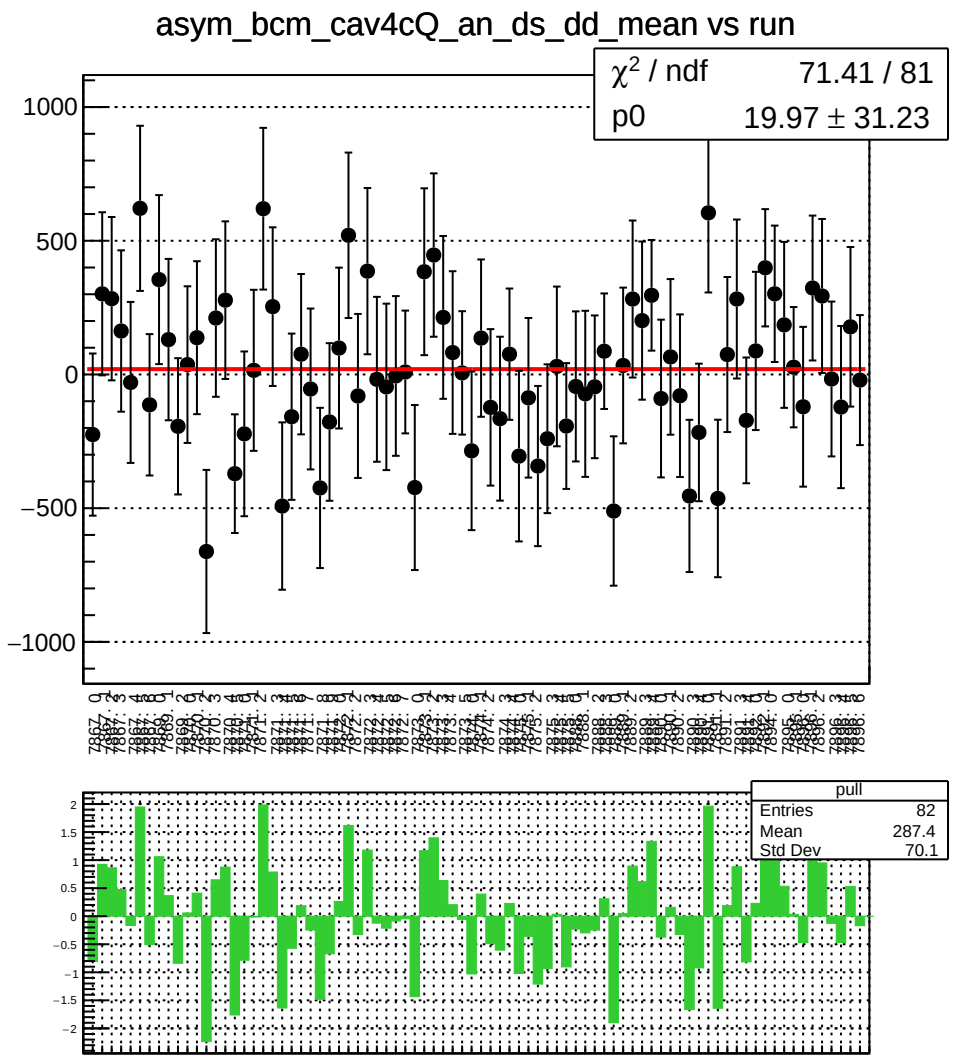

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 85.18 / 81
p0 −14.79 ± 26
1000
500
0
−500
−1000
pull
Entries 82
Mean 266.6
Std Dev 0
2
1
0
−1
−2

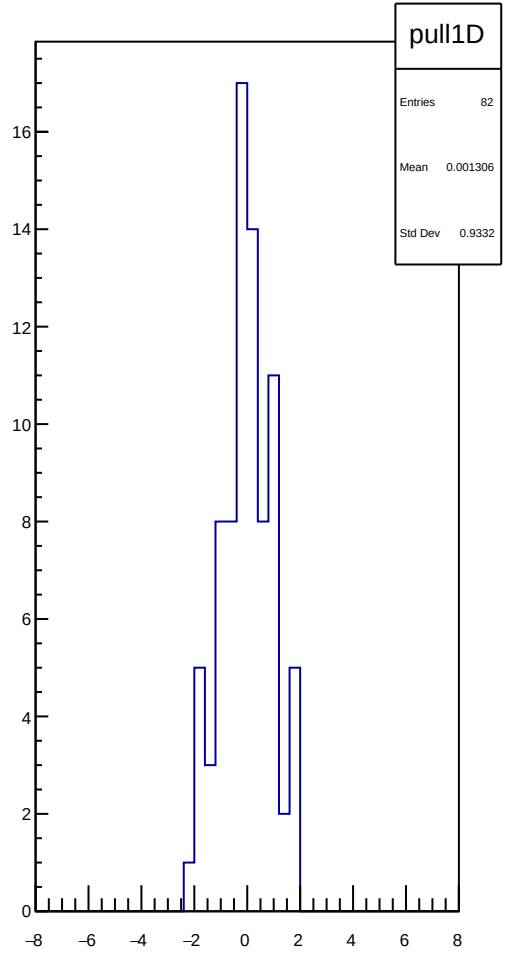

pull1D
Entries 82
Mean −0.003728
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

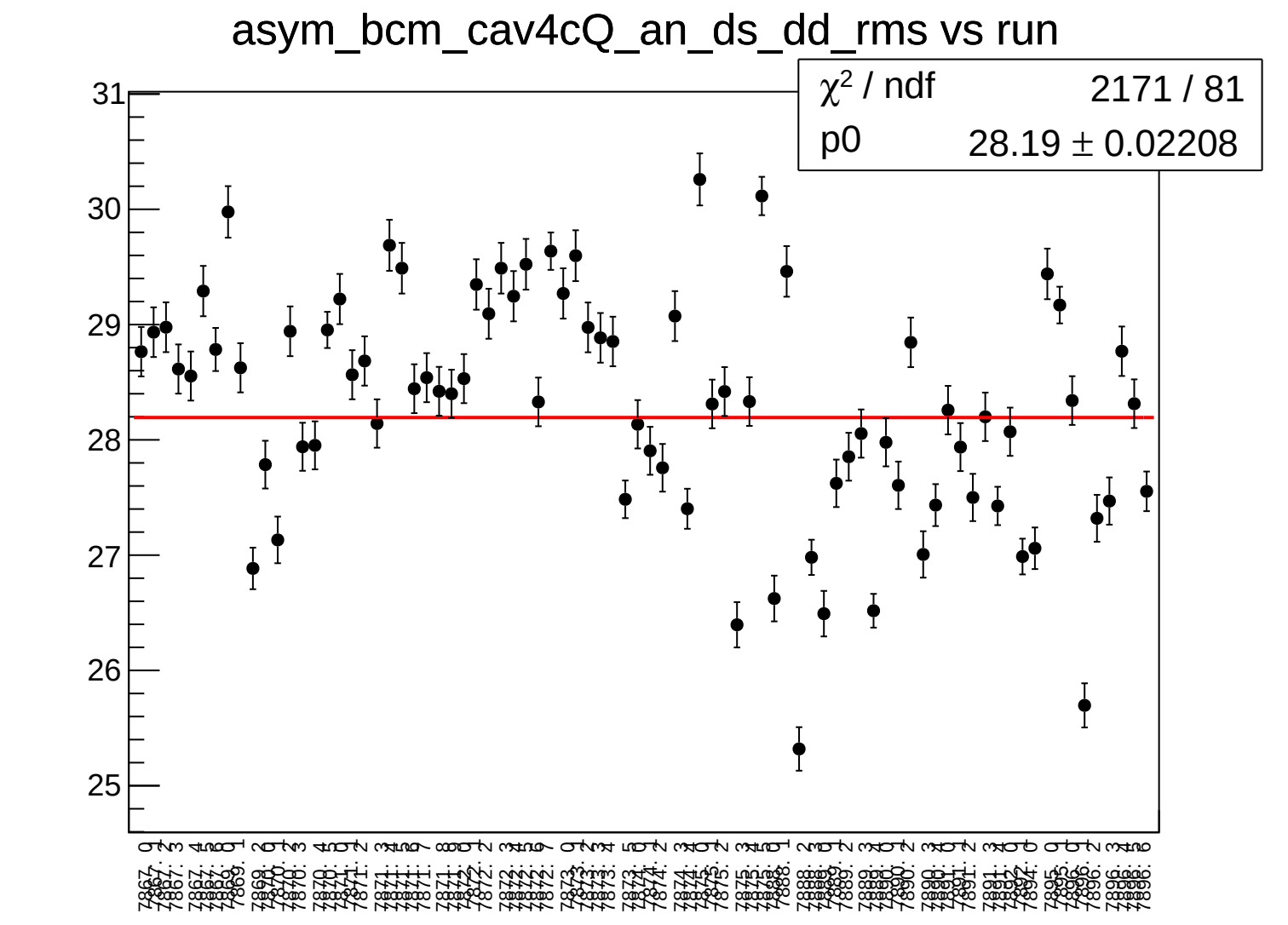

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1318 / 81
p0 23.48 ± 0.01838
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

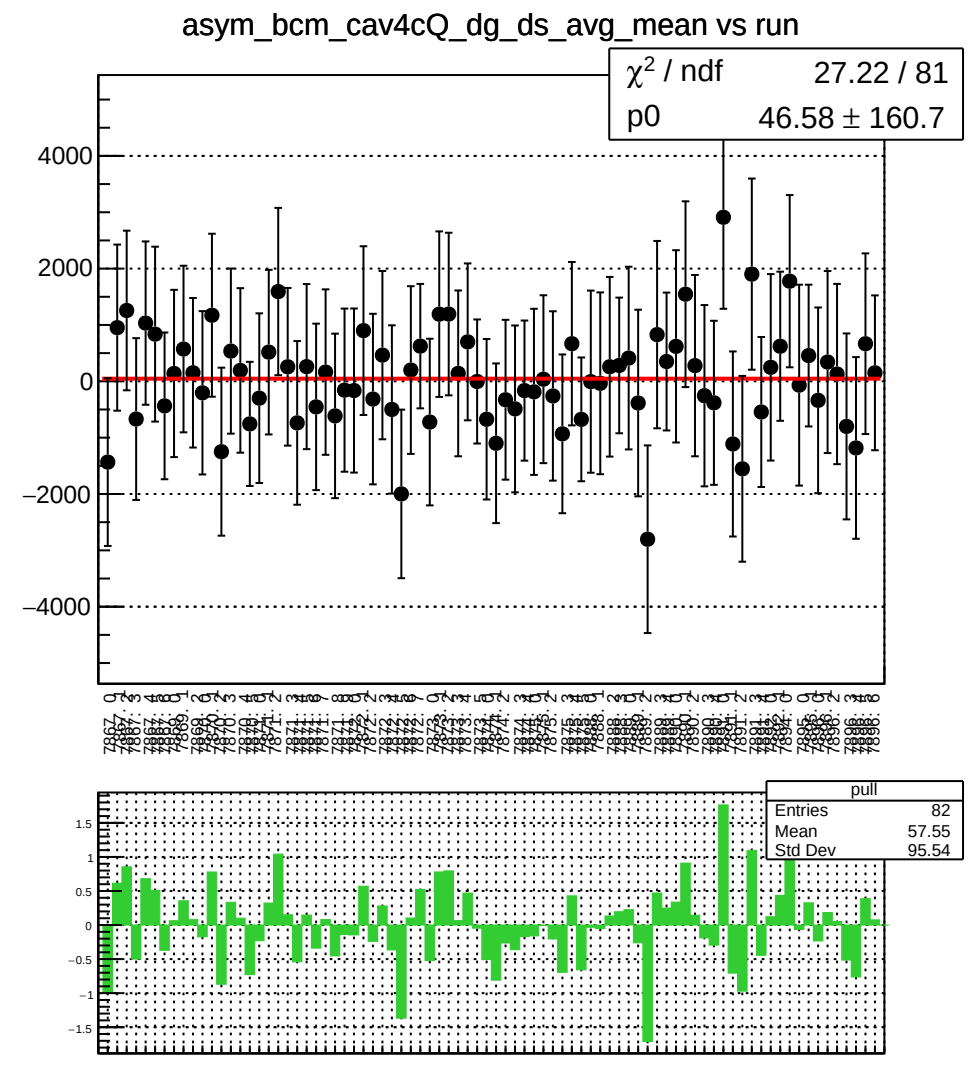

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 28.18 / 81
p0 69.57 ± 160
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 61.4
Std Dev 131.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.002469
Std Dev 0.5863
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

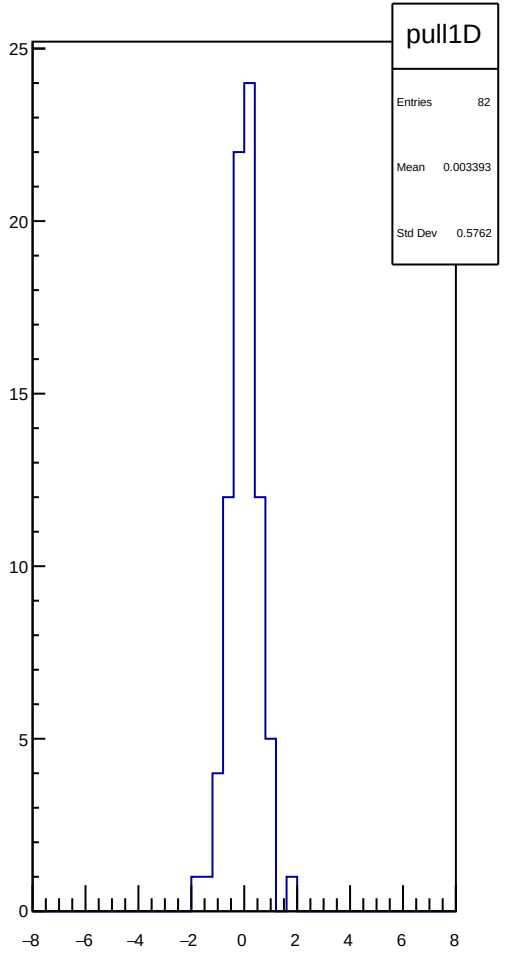

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 6537 / 81
p0 144.2 ± 0.1131
170
165
160
155
150
145
140
135
130

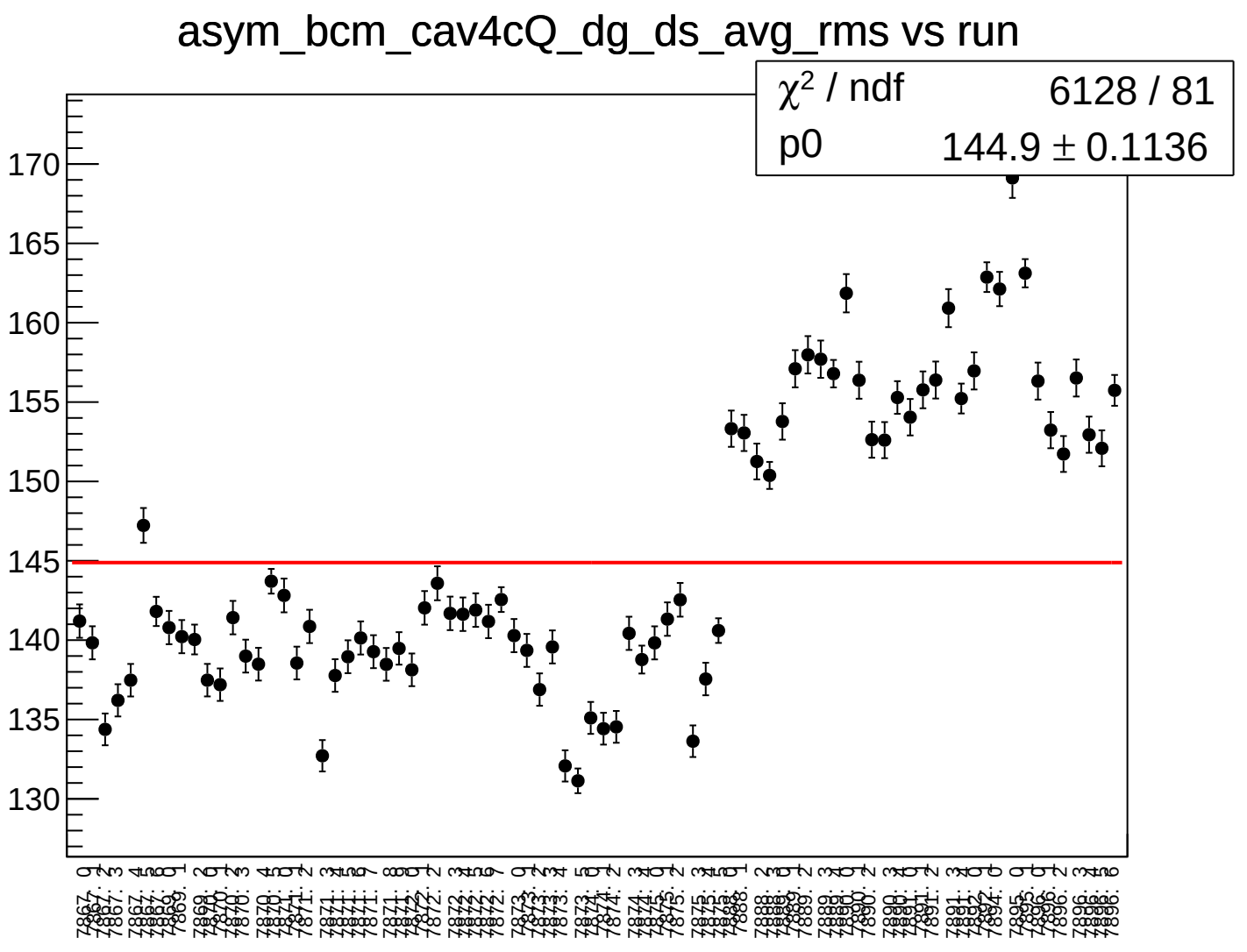

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 71.41 / 81
p0 19.97 ± 31.23
1000
500
0
−500
−1000
pull
Entries 82
Mean 287.4
Std Dev 70.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

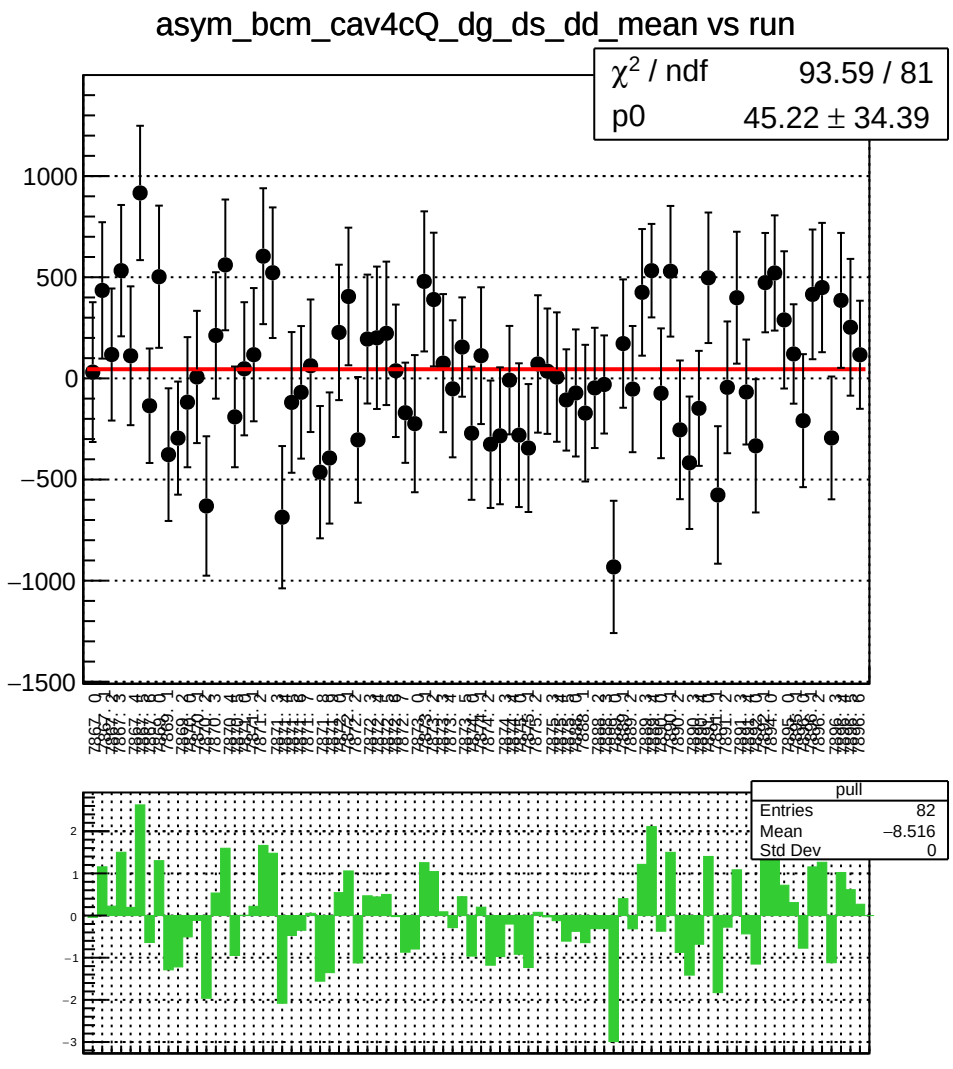

pull1D
Entries 82
Mean 0.001306
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

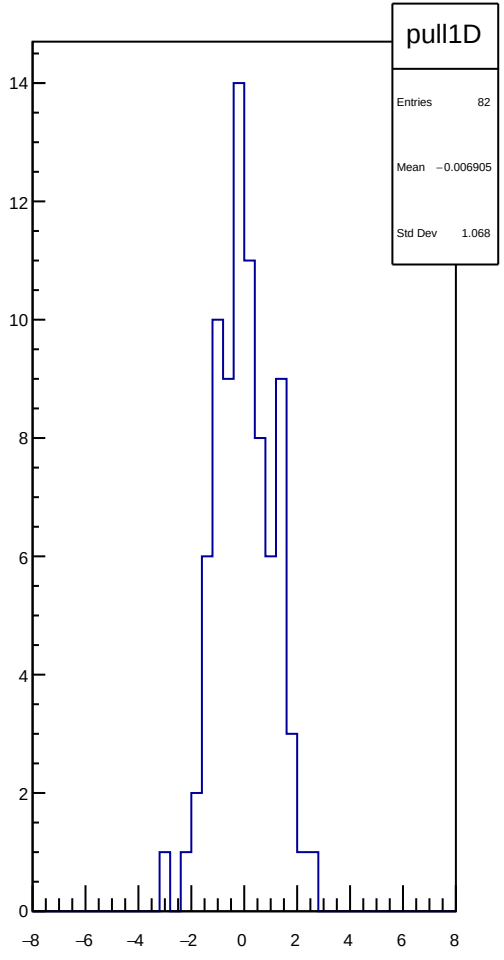

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2171 / 81
p0 28.19 ± 0.02208
31
30
29
28
27
26
25

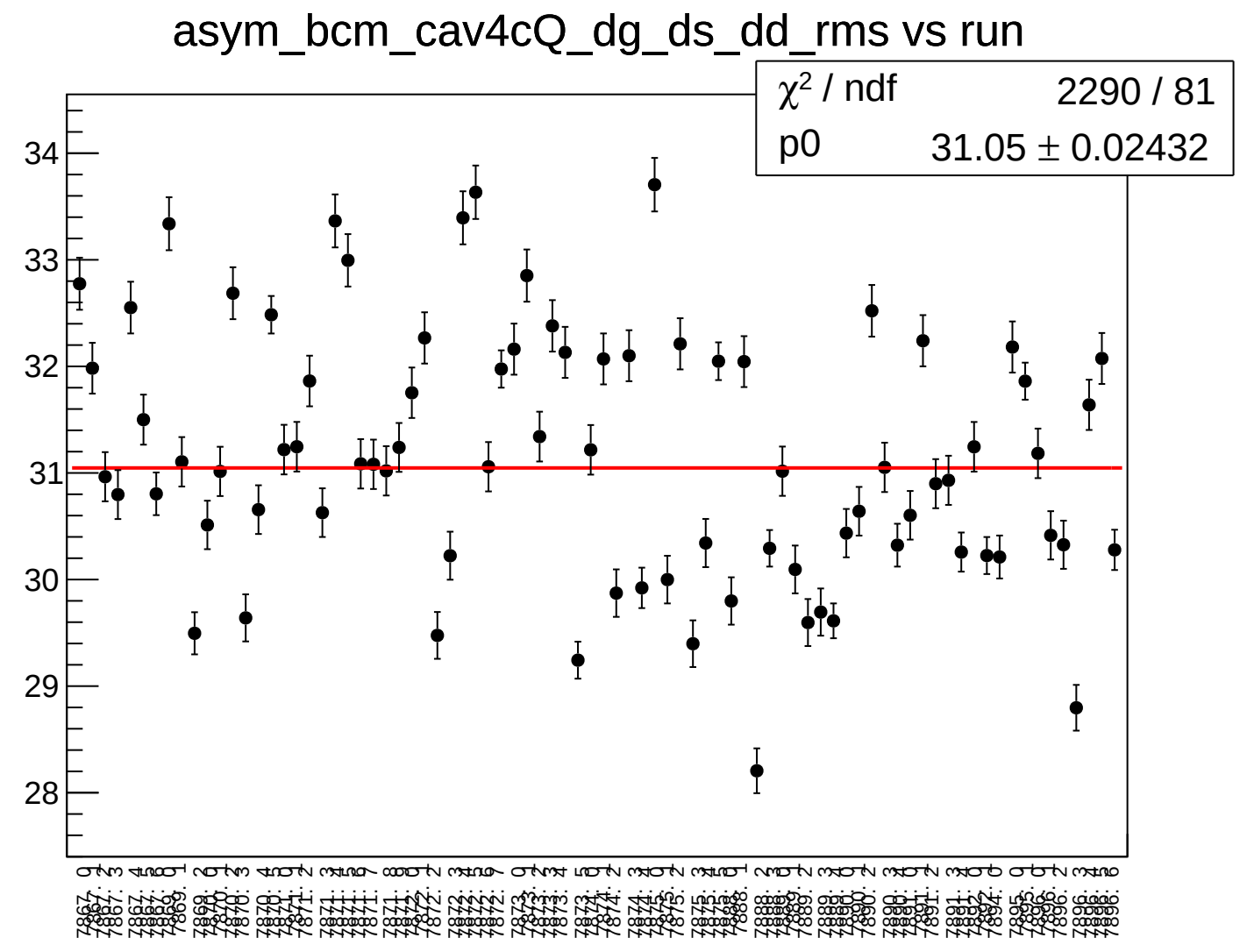

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 27.22 / 81
p0 46.58 ± 160.7
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 57.55
Std Dev 95.54
1.5
1
0.5
0
−0.5
−1
−1.5

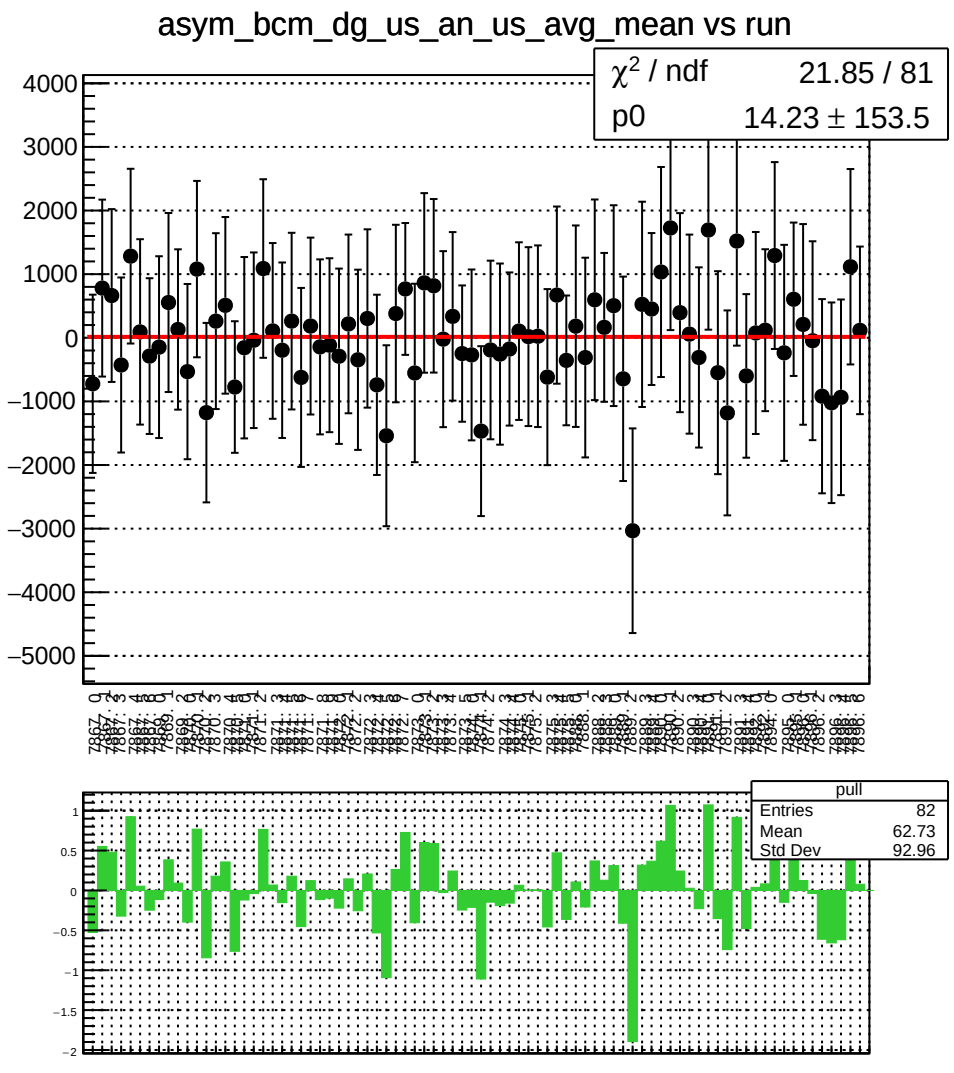

pull1D
Entries 82
Mean 0.003393
Std Dev 0.5762
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

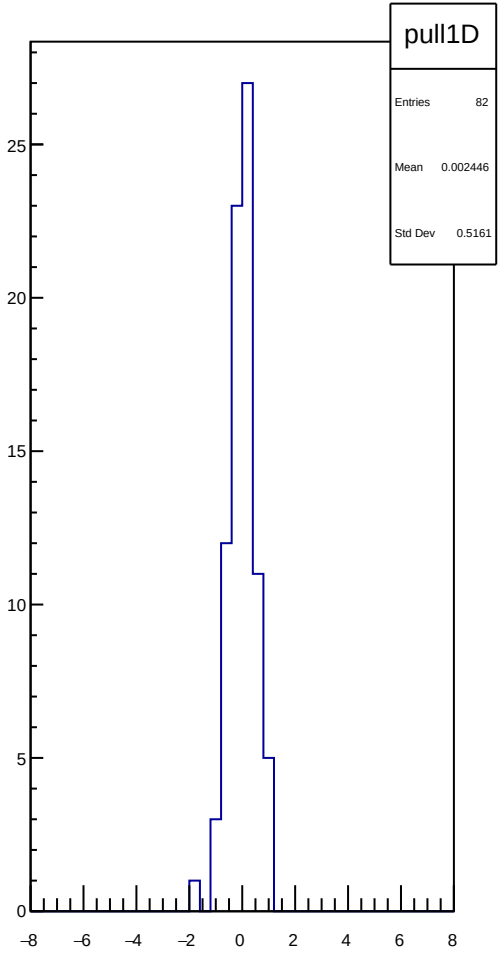

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 6128 / 81
p0 144.9 ± 0.1136
170
165
160
155
150
145
140
135
130

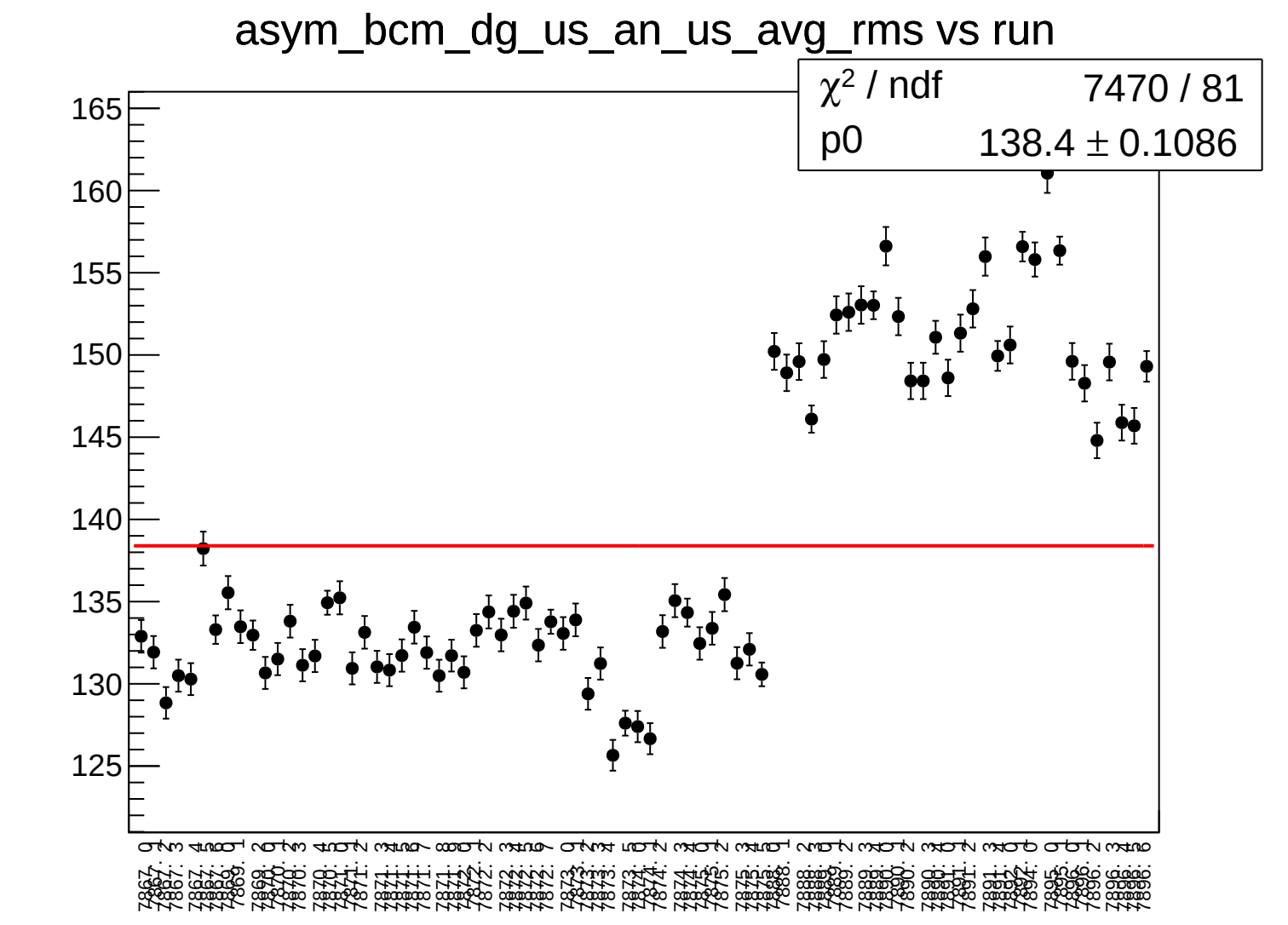

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 93.59 / 81
p0 45.22 ± 34.39
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean −8.516
Std Dev 0
2
1
0
−1
−2
−3

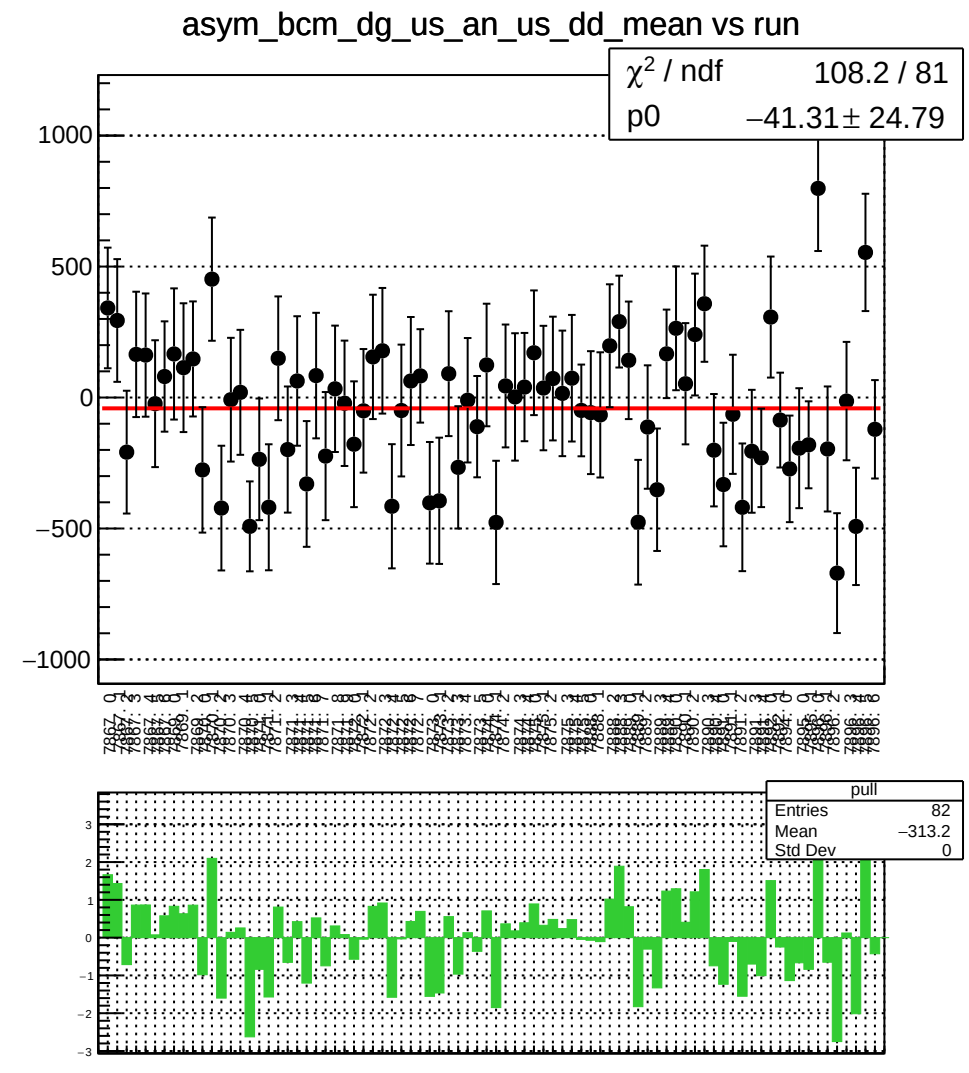

pull1D
Entries 82
Mean −0.006905
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

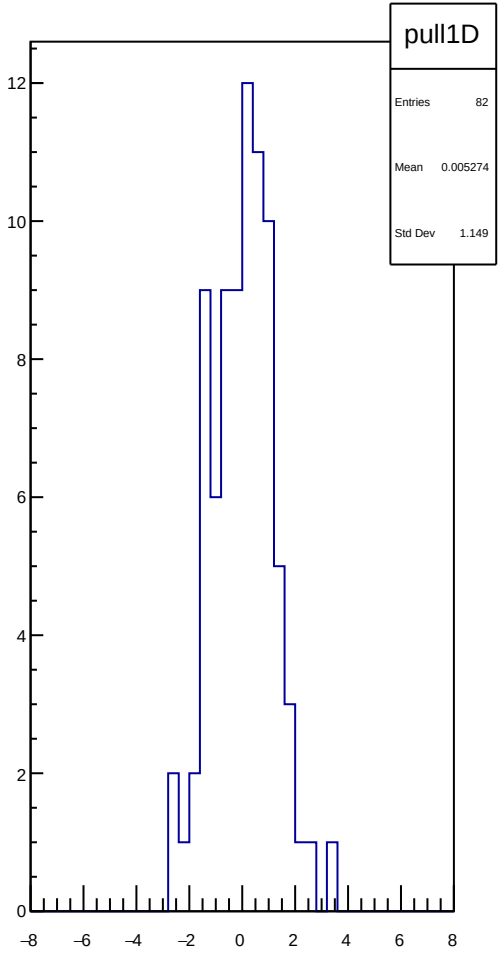

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2290 / 81
p0 31.05 ± 0.02432
34
33
32
31
30
29
28

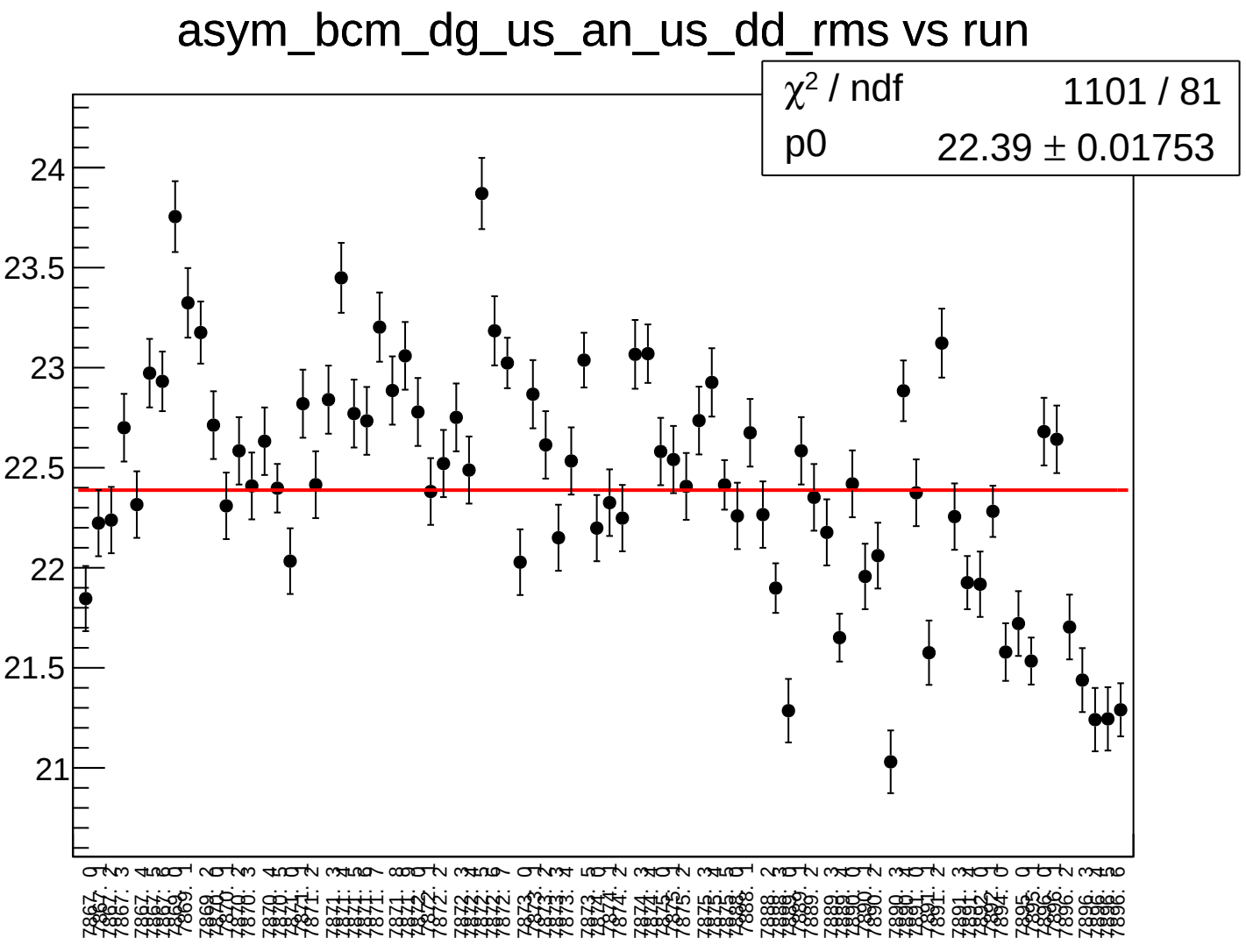

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 21.85 / 81
p0 14.23 ± 153.5
pull
Entries 82
Mean 62.73
Std Dev 92.96

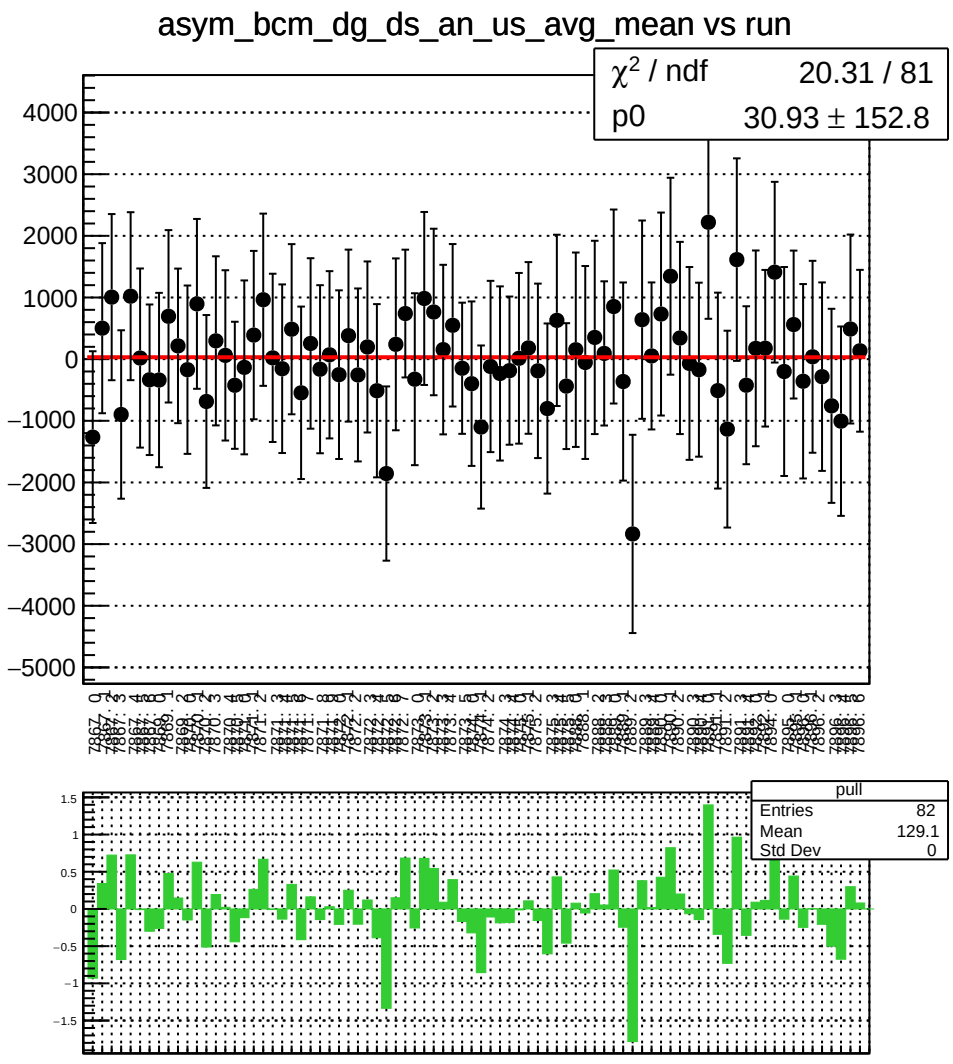

pull1D
Entries 82
Mean 0.002446
Std Dev 0.5161

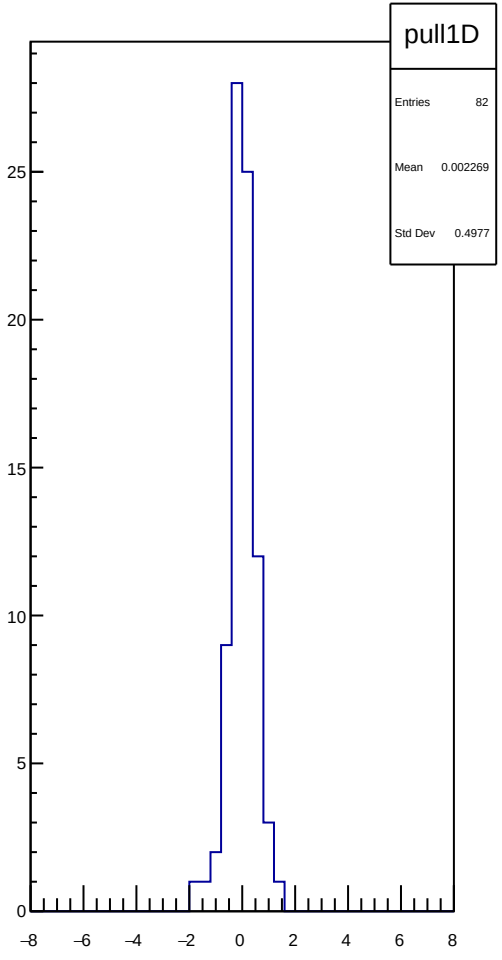

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 7470 / 81
p0 138.4 ± 0.1086
165
160
155
150
145
140
135
130
125

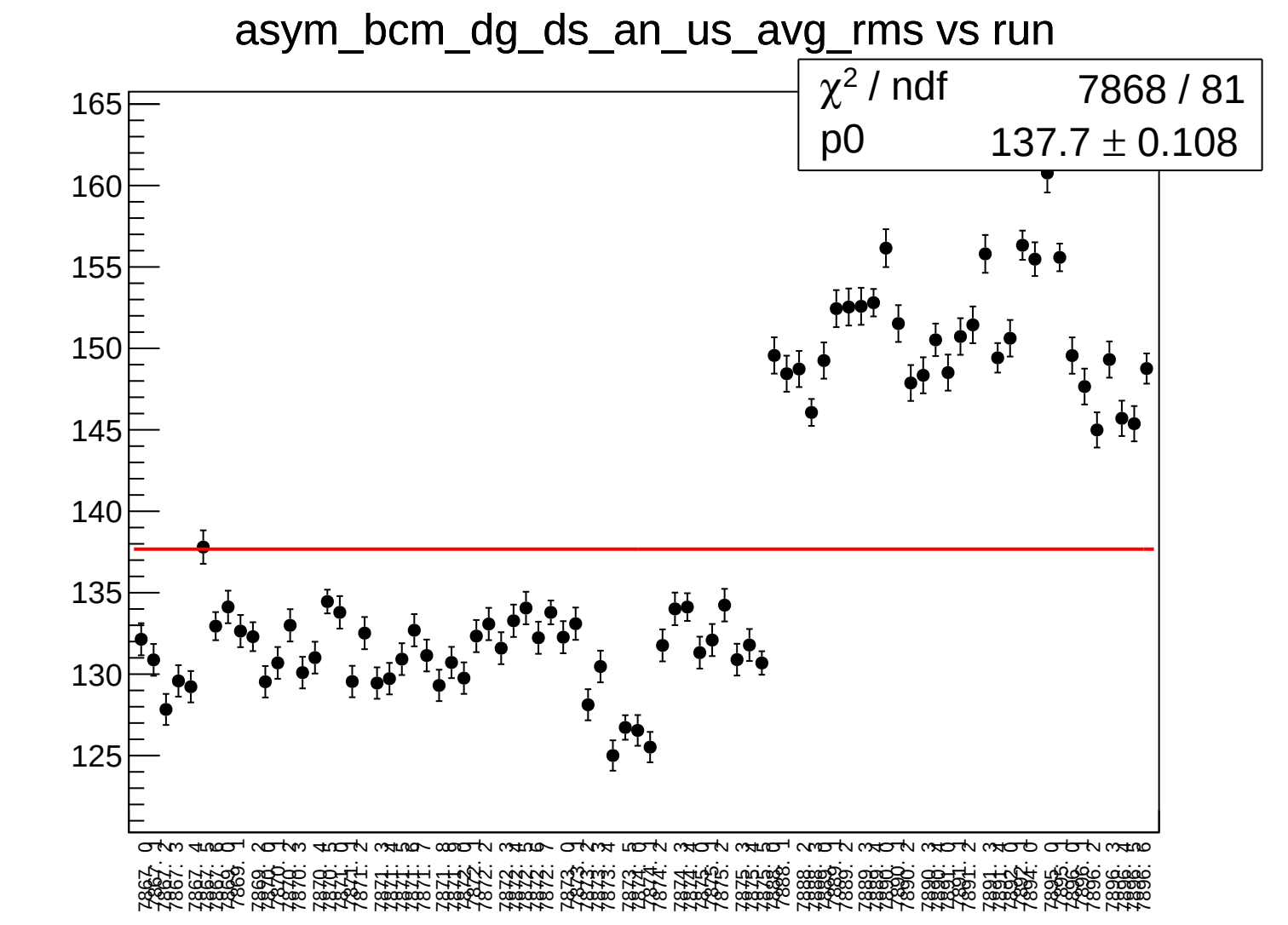

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 108.2 / 81
p0 −41.31 ± 24.79
1000
500
0
−500
−1000
pull
Entries 82
Mean −313.2
Std Dev 0
3
2
1
0
−1
−2
−3

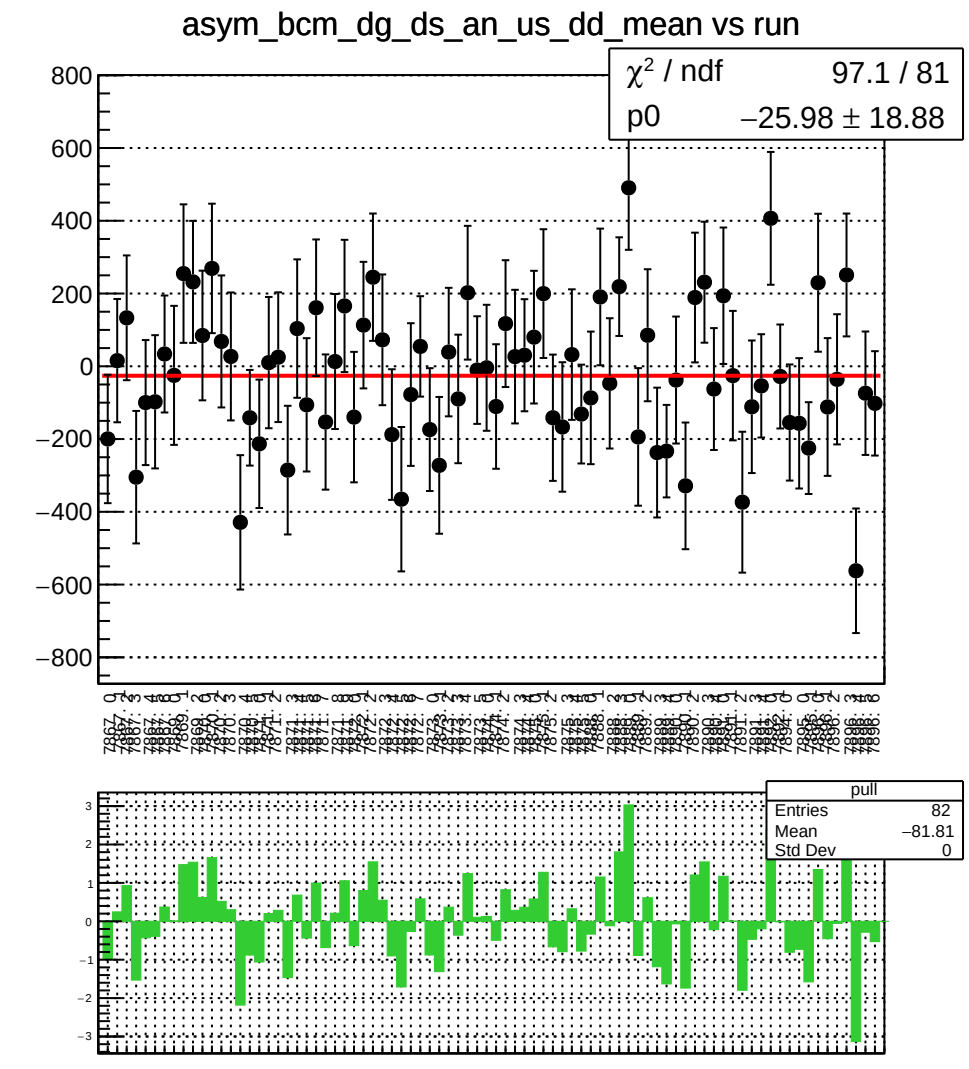

pull1D
Entries 82
Mean 0.005274
Std Dev 1.149
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

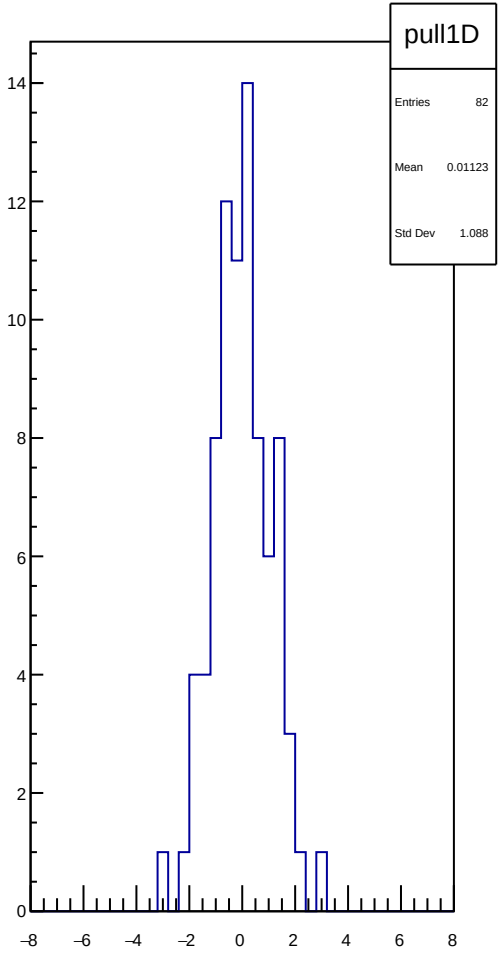

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1101 / 81
p0 22.39 ± 0.01753
24
23.5
23
22.5
22
21.5
21

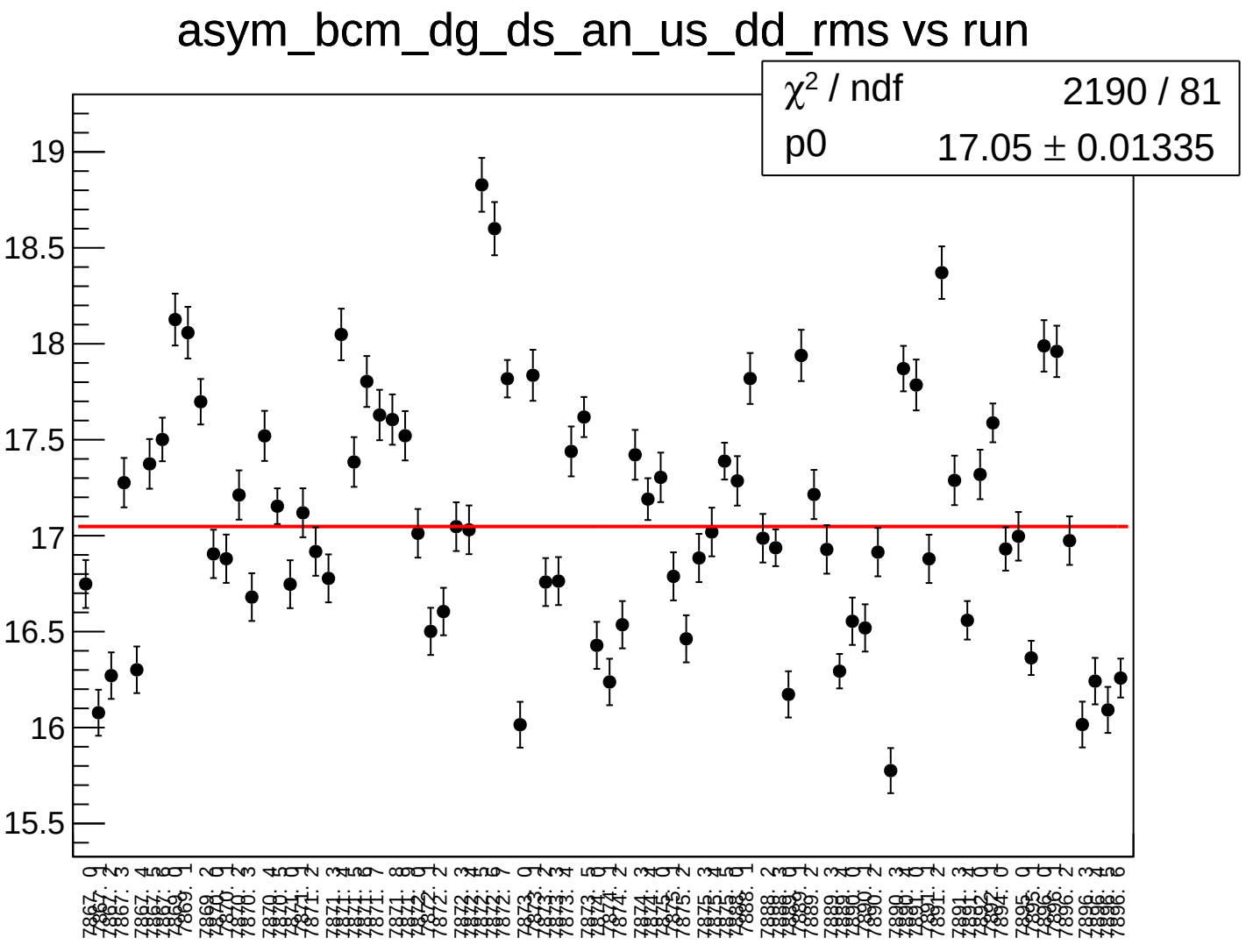

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 20.31 / 81
p0 30.93 ± 152.8
pull
Entries 82
Mean 129.1
Std Dev 0

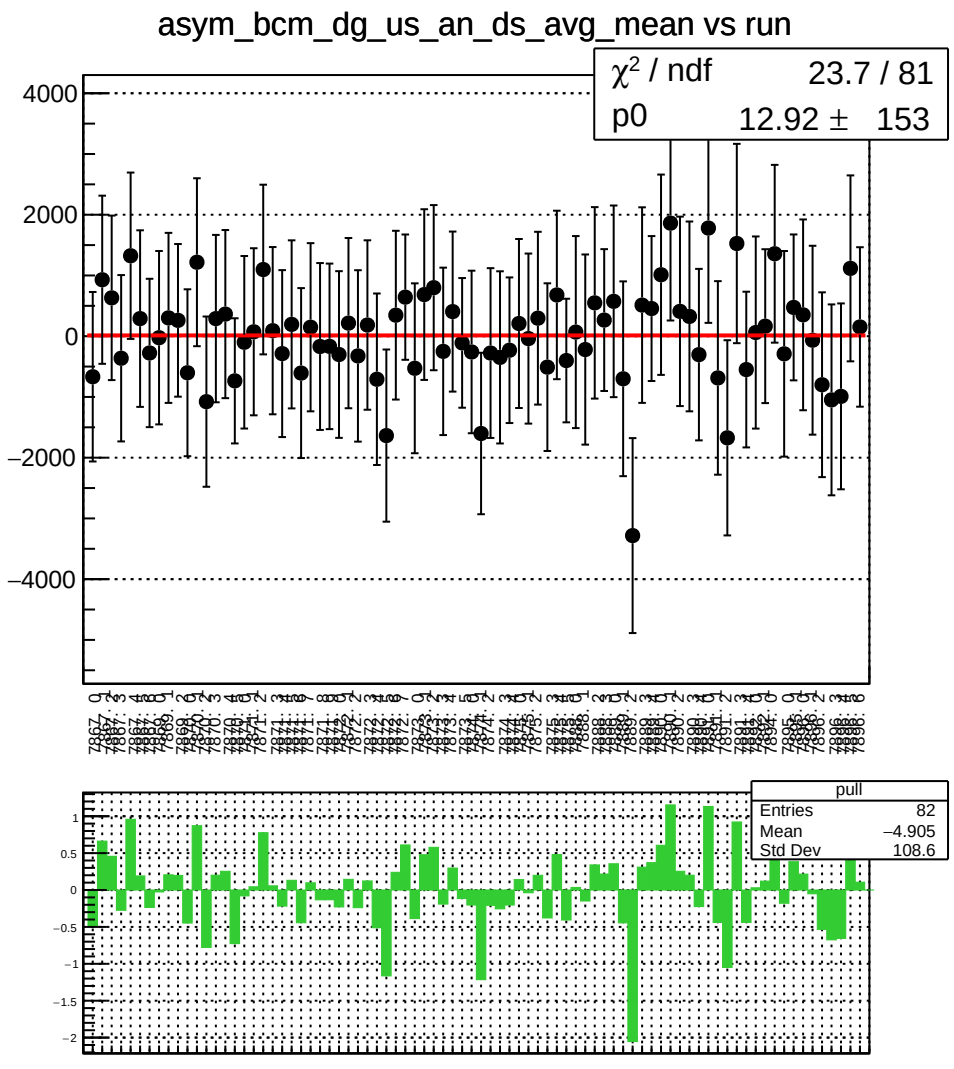

pull1D
Entries 82
Mean 0.002269
Std Dev 0.4977

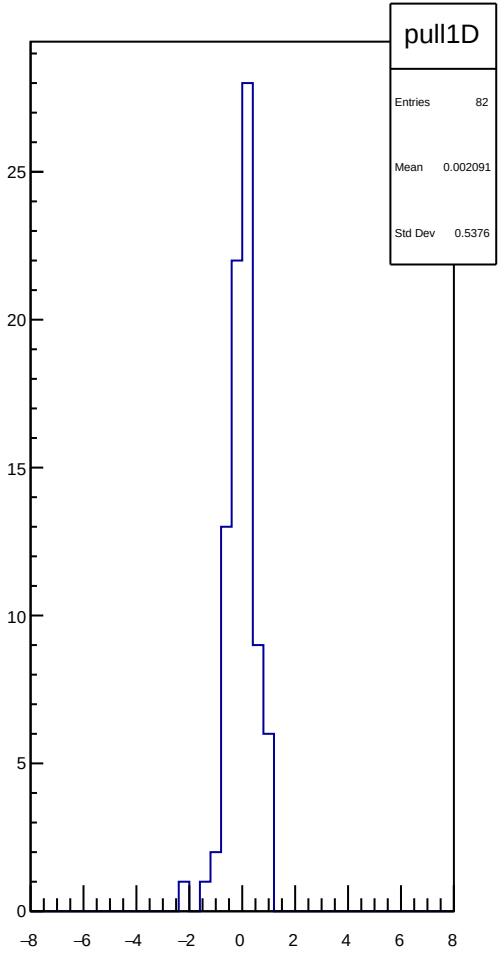

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 7868 / 81
p0 137.7 ± 0.108
165
160
155
150
145
140
135
130
125

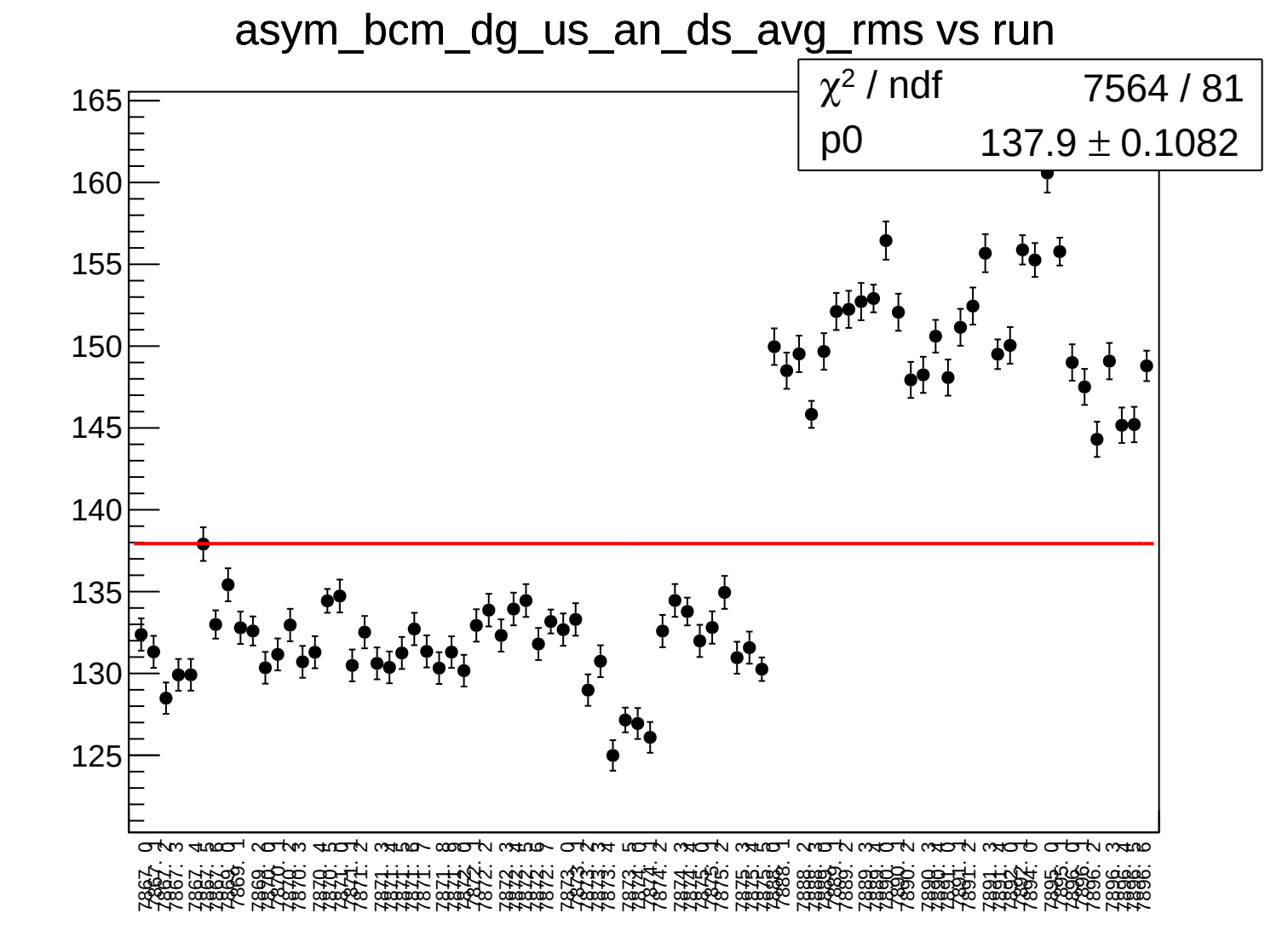

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 97.1 / 81
p0 −25.98 ± 18.88
pull
Entries 82
Mean −81.81
Std Dev 0

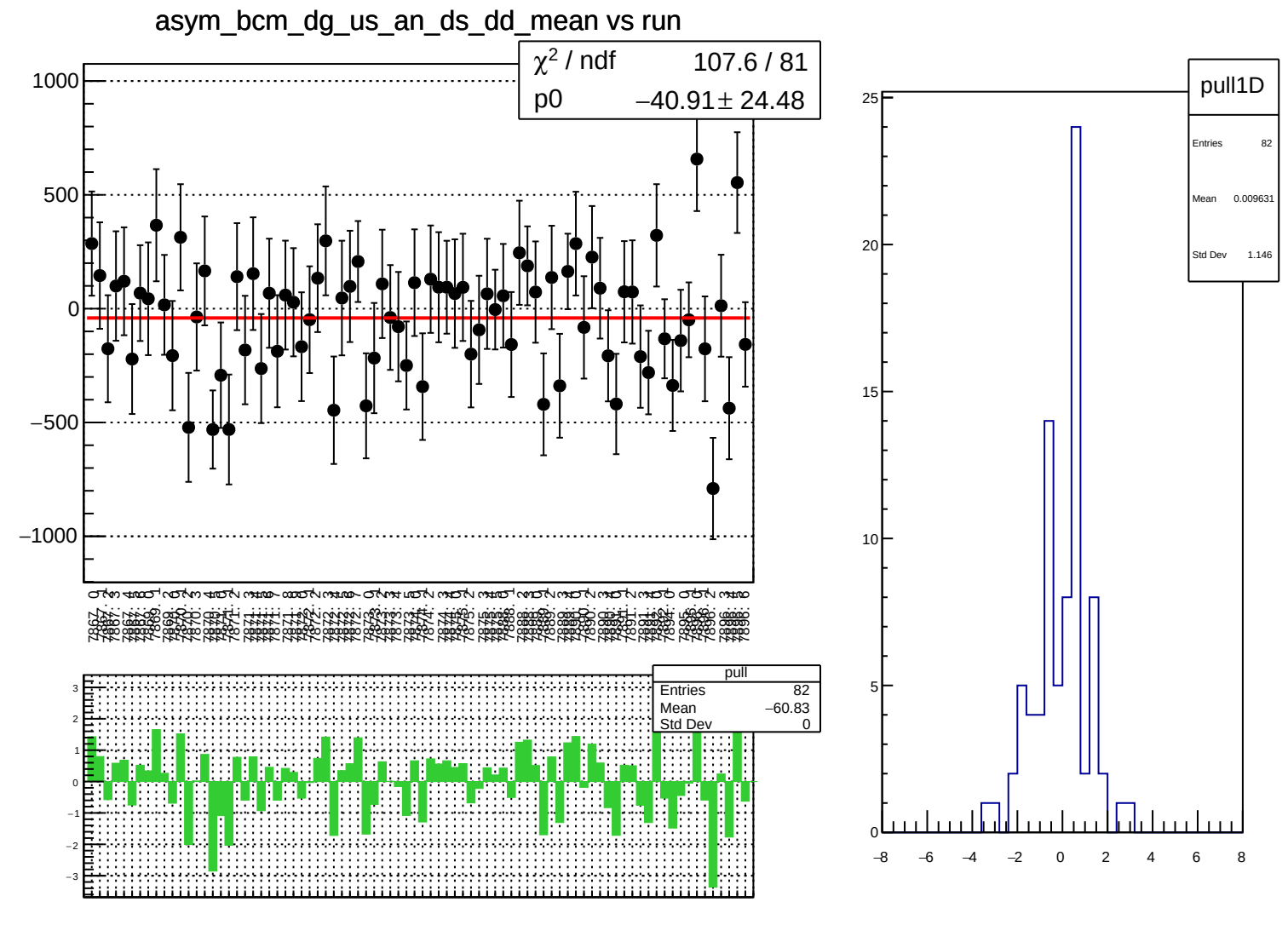

pull1D
Entries 82
Mean 0.01123
Std Dev 1.088

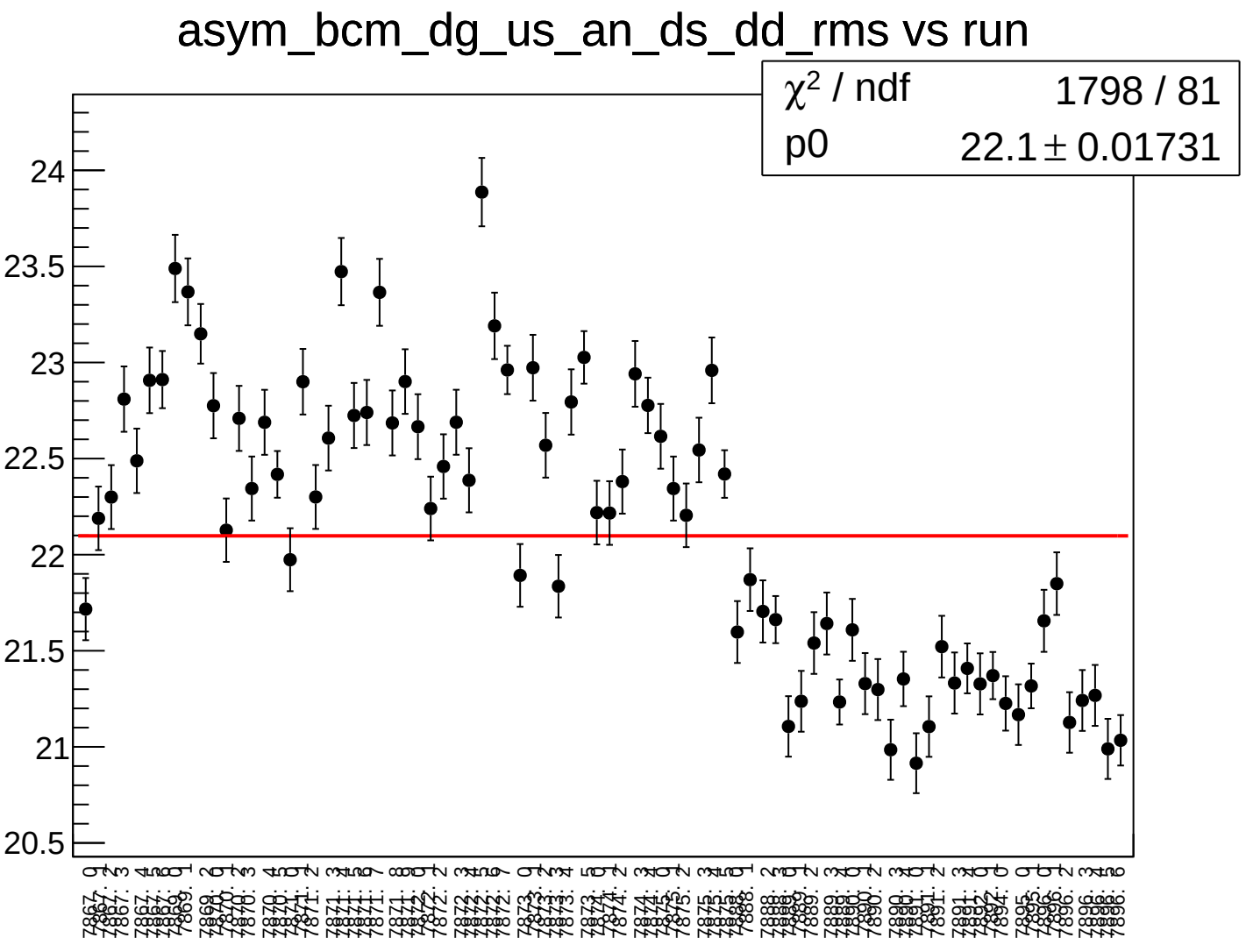

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2190 / 81
p0 17.05 ± 0.01335
19
18.5
18
17.5
17
16.5
16
15.5

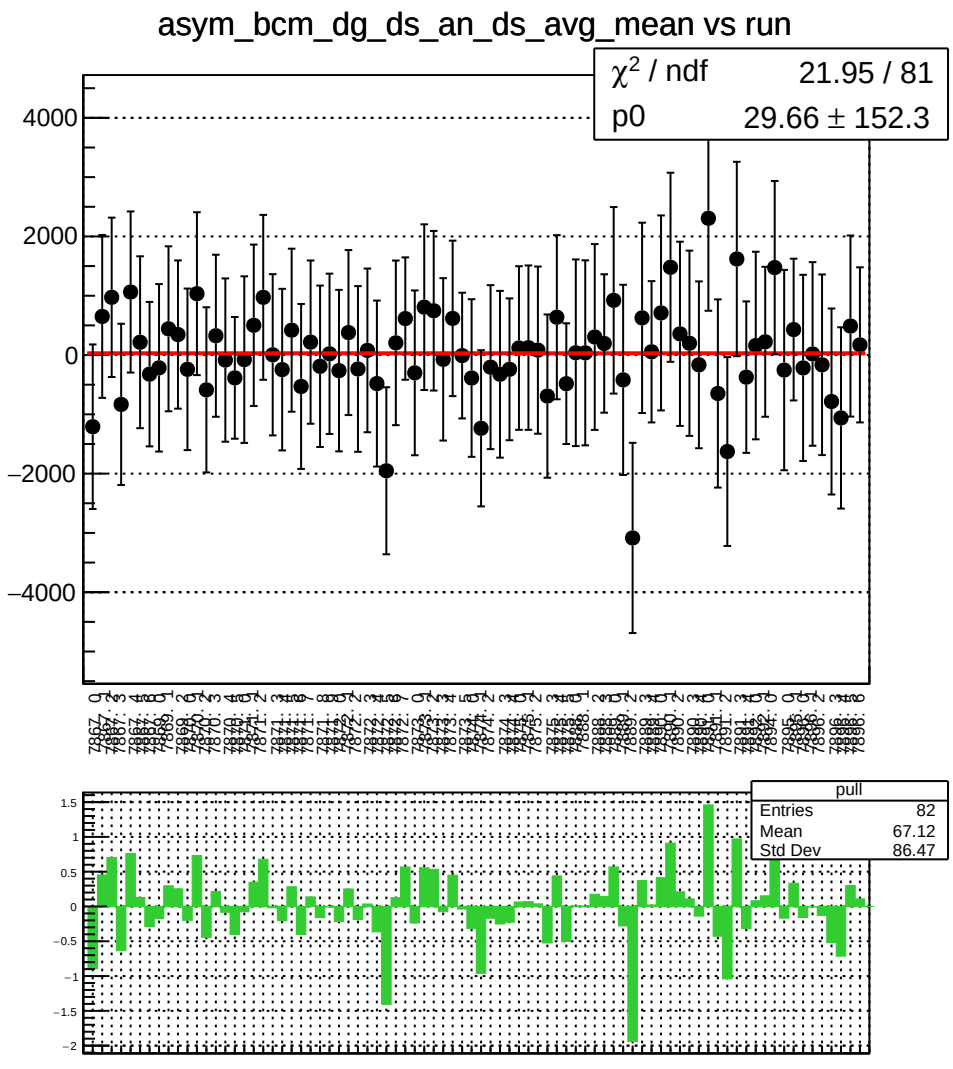

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 23.7 / 81
p0 12.92 ± 153
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −4.905
Std Dev 108.6
1
0.5
0
−0.5
−1
−1.5
−2

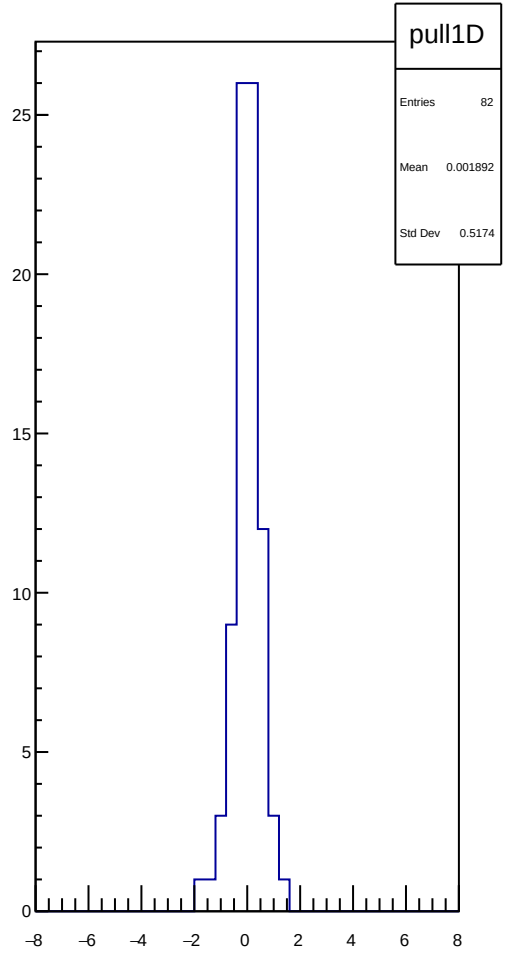

pull1D
Entries 82
Mean 0.002091
Std Dev 0.5376
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

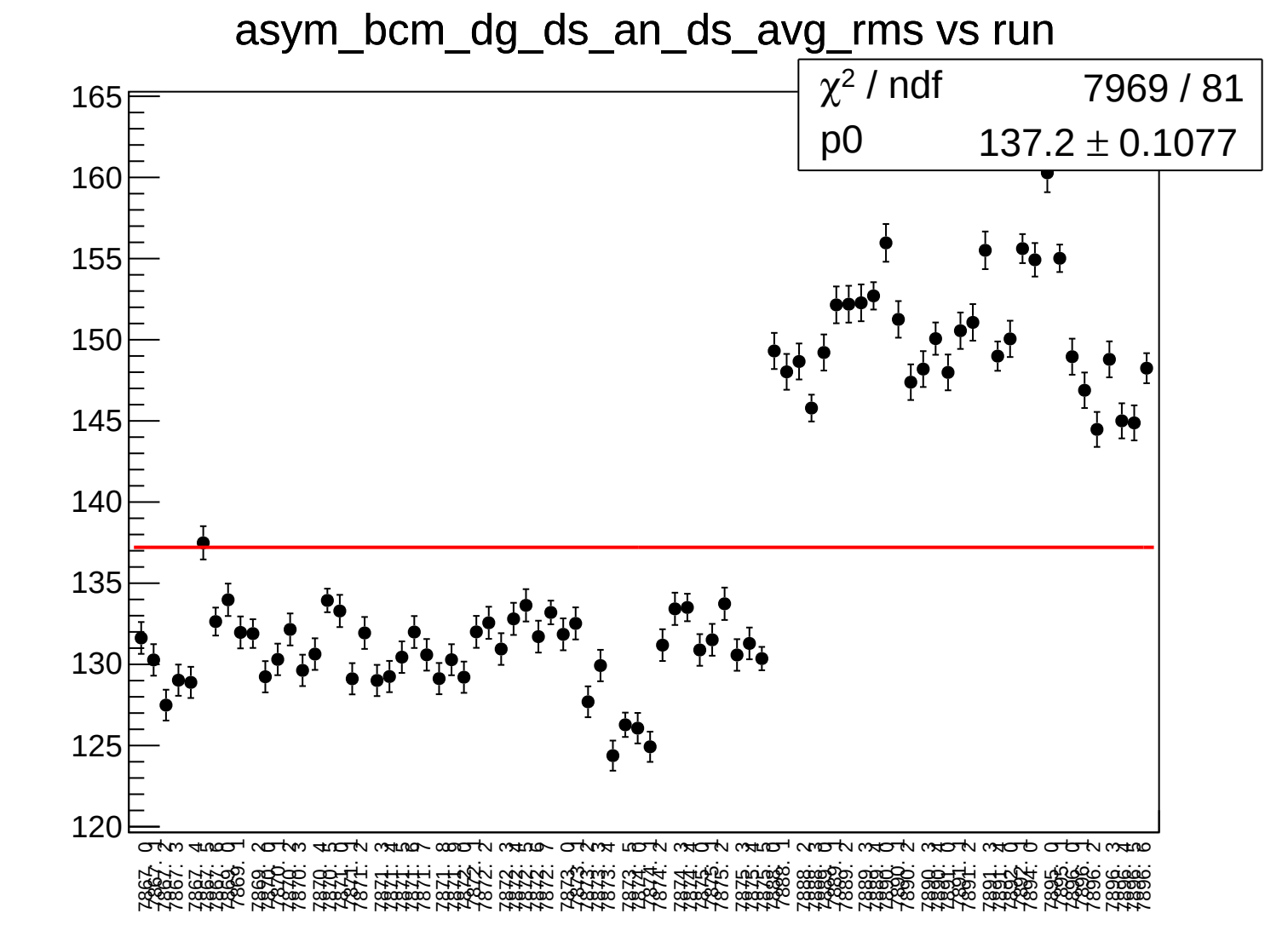

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 7564 / 81
p0 137.9 ± 0.1082
165
160
155
150
145
140
135
130
125

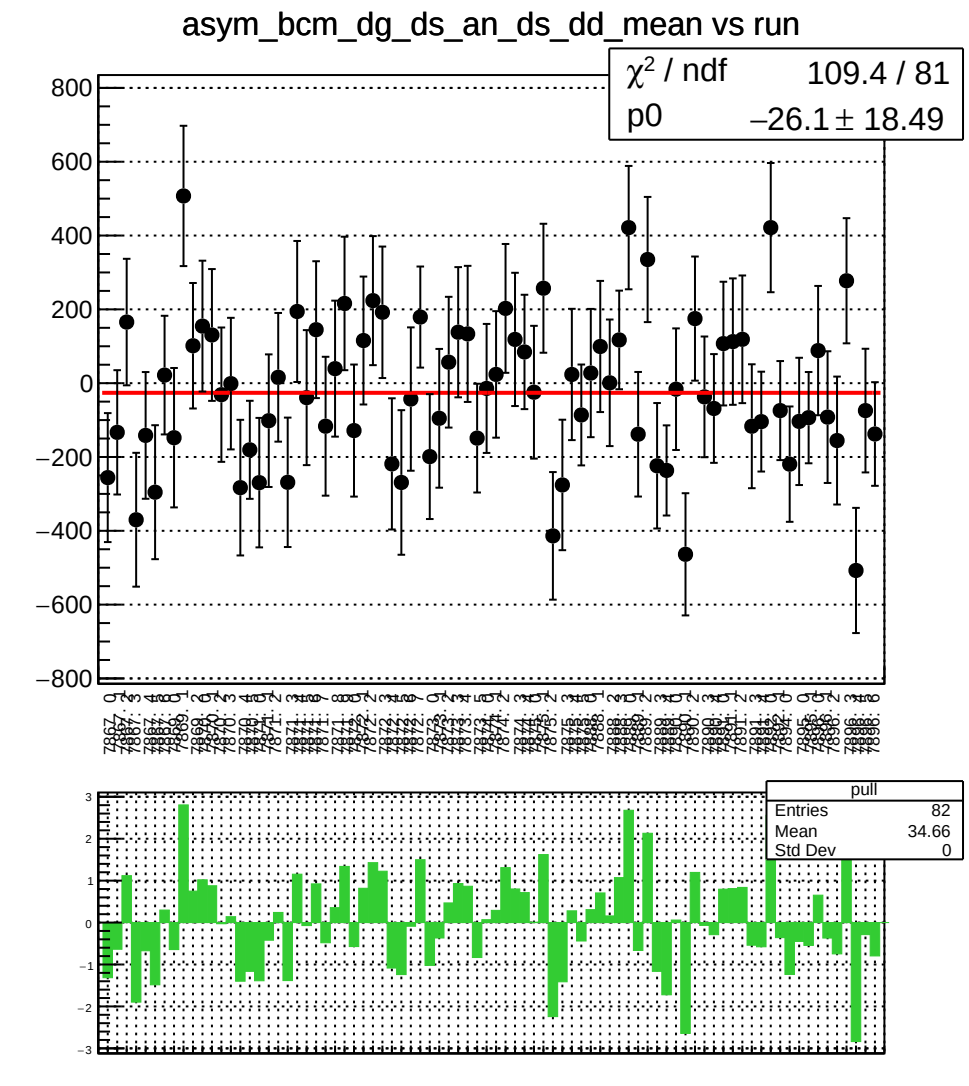

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 107.6 / 81
p0 −40.91 ± 24.48
1000
500
0
−500
−1000
pull
Entries 82
Mean −60.83
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.009631
Std Dev 1.146
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

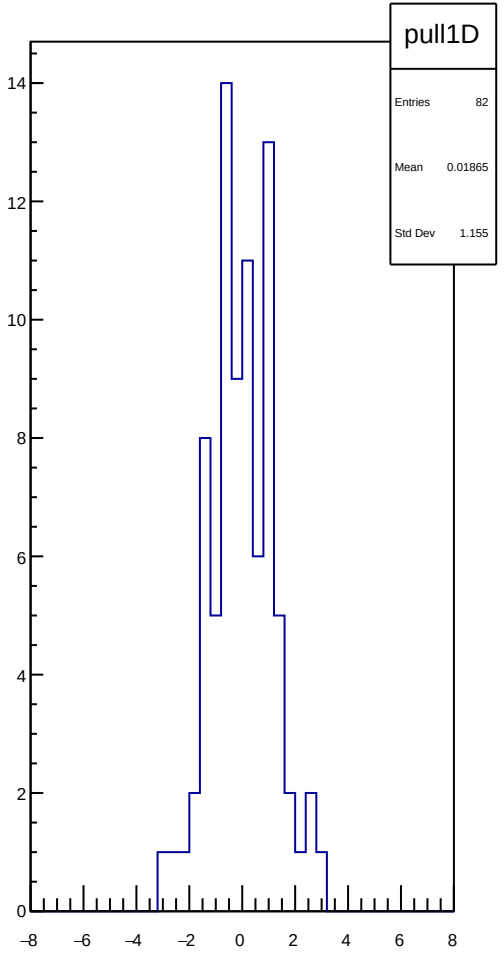

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1798 / 81
p0 22.1 ± 0.01731
24
23.5
23
22.5
22
21.5
21
20.5

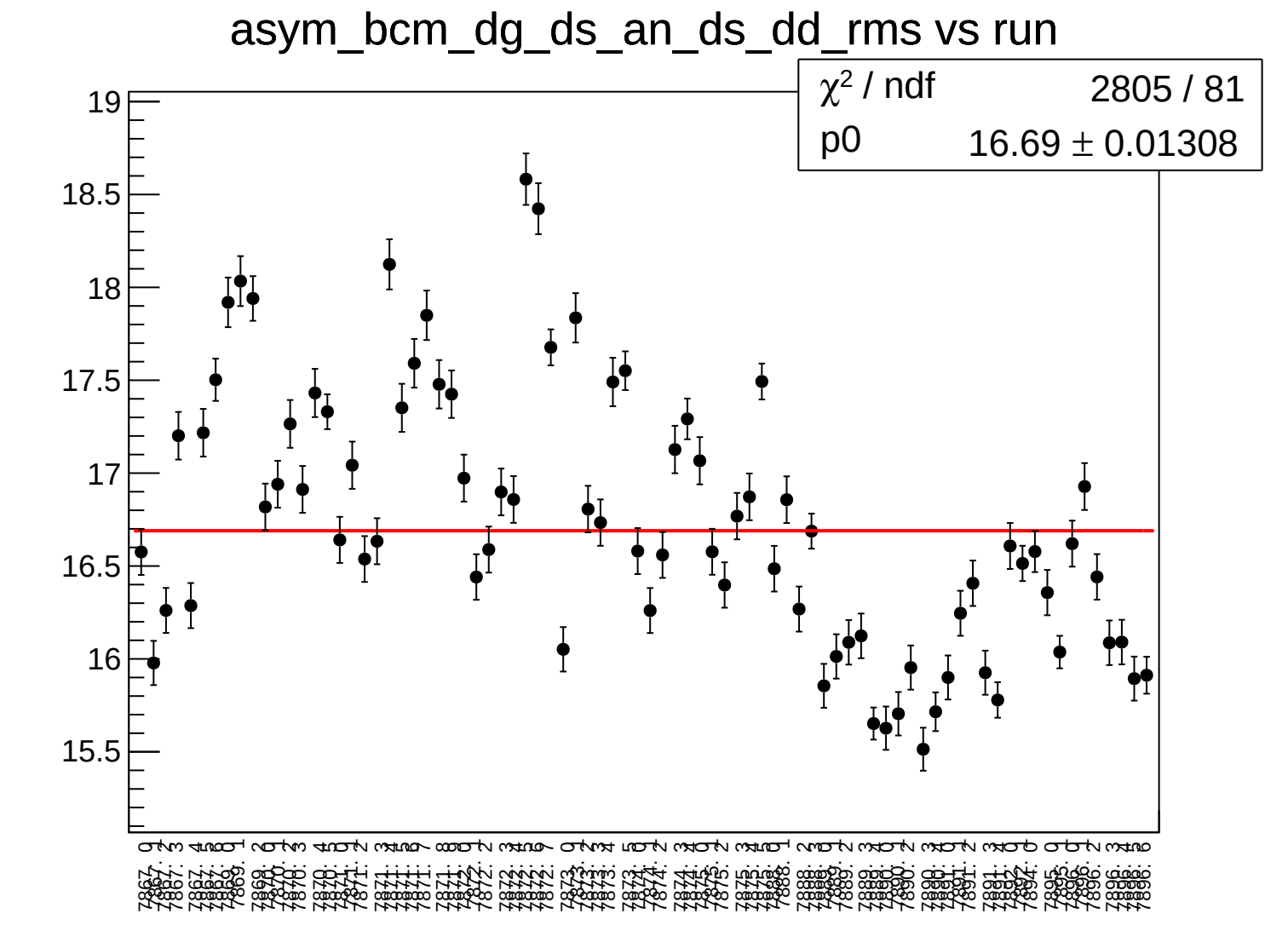

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 21.95 / 81
p0 29.66 ± 152.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 67.12
Std Dev 86.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

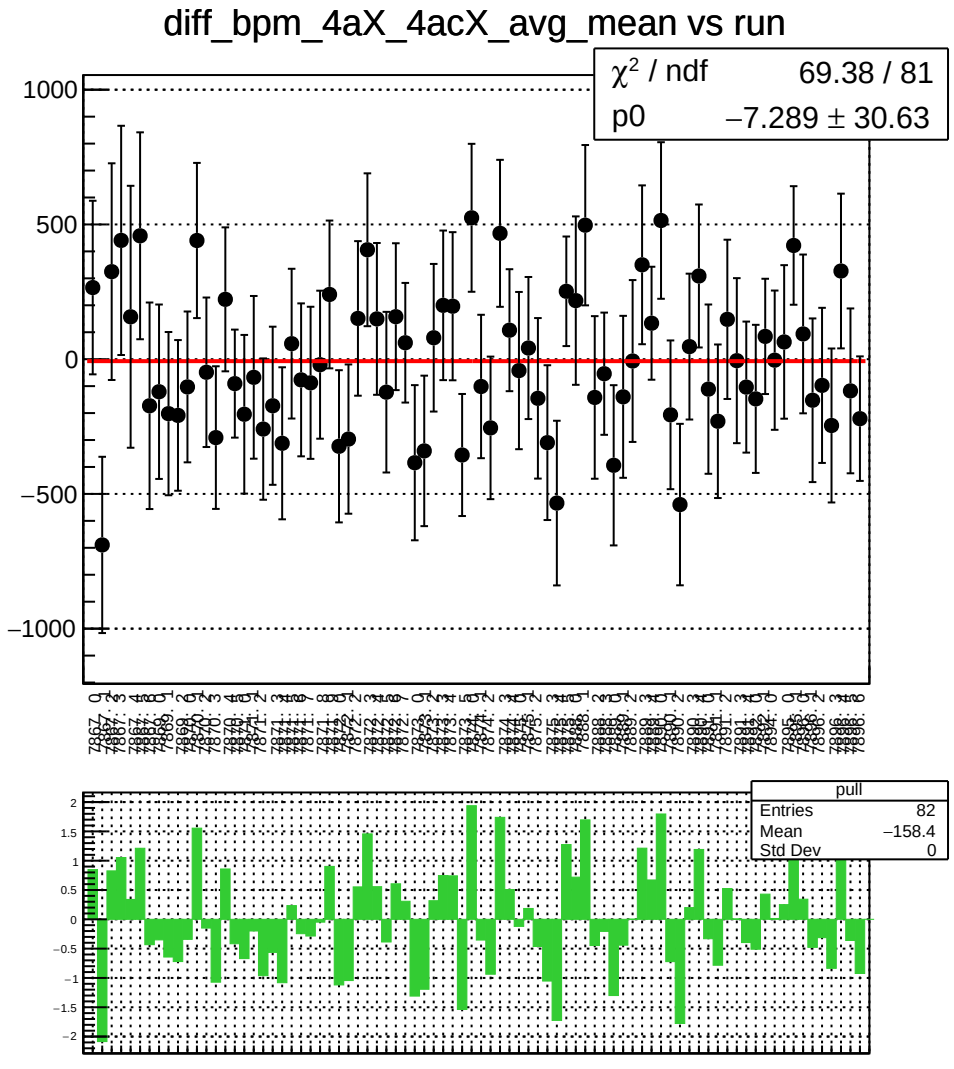

pull1D
Entries 82
Mean 0.001892
Std Dev 0.5174
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

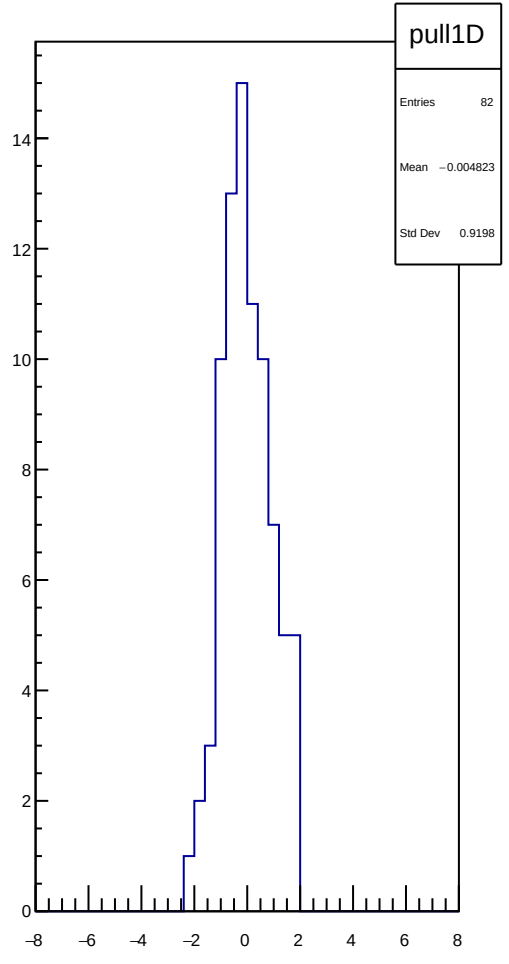

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 7969 / 81
p0 137.2 ± 0.1077
165
160
155
150
145
140
135
130
125
120

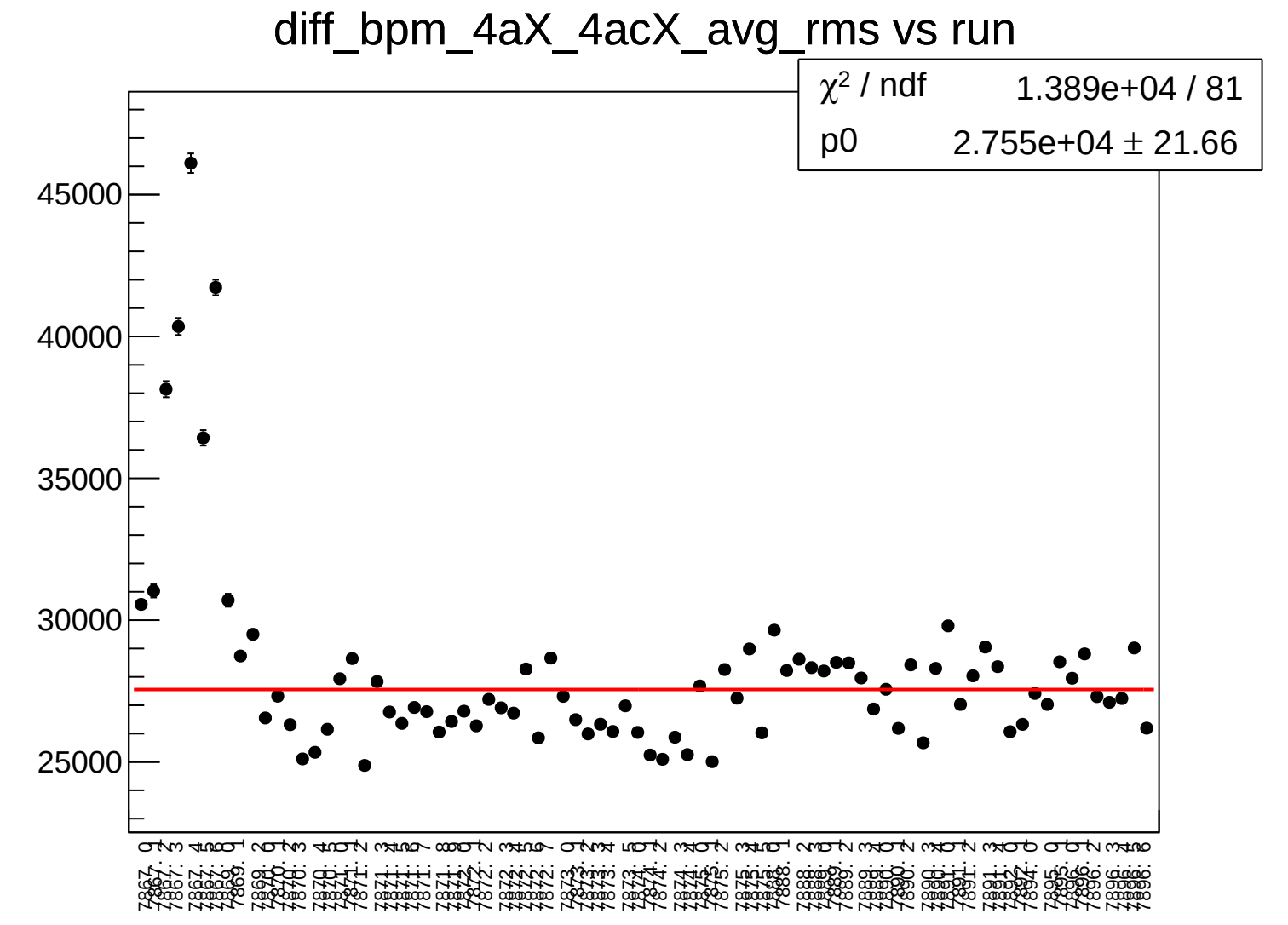

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 109.4 / 81
p0 −26.1 ± 18.49
pull
Entries 82
Mean 34.66
Std Dev 0

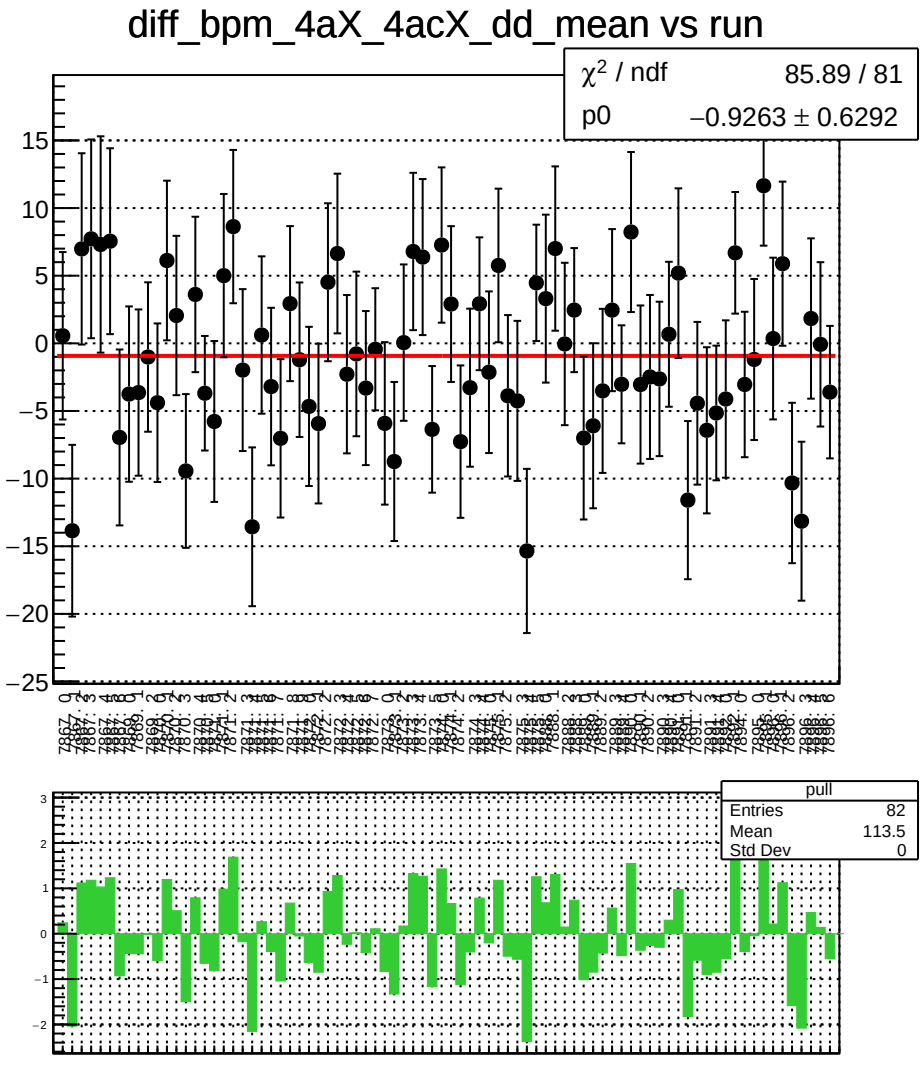

pull1D
Entries 82
Mean 0.01865
Std Dev 1.155

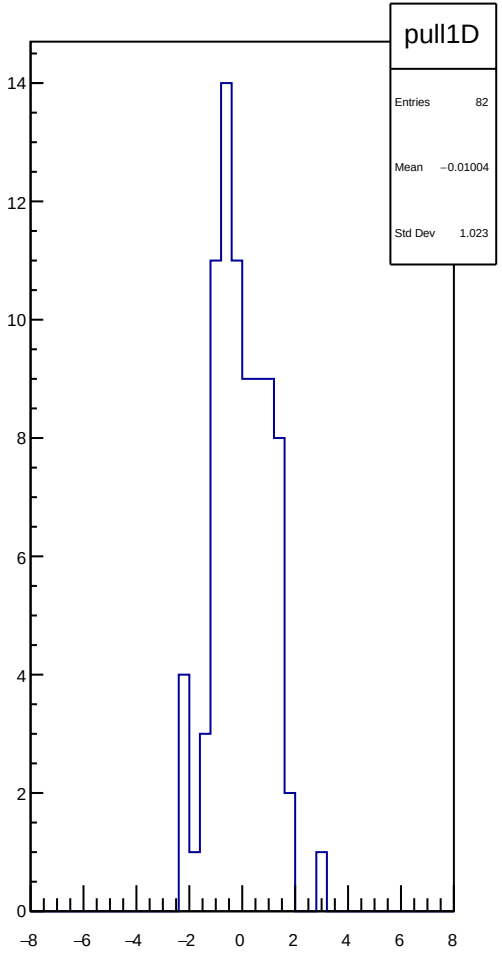

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2805 / 81
p0 16.69 ± 0.01308
19
18.5
18
17.5
17
16.5
16
15.5

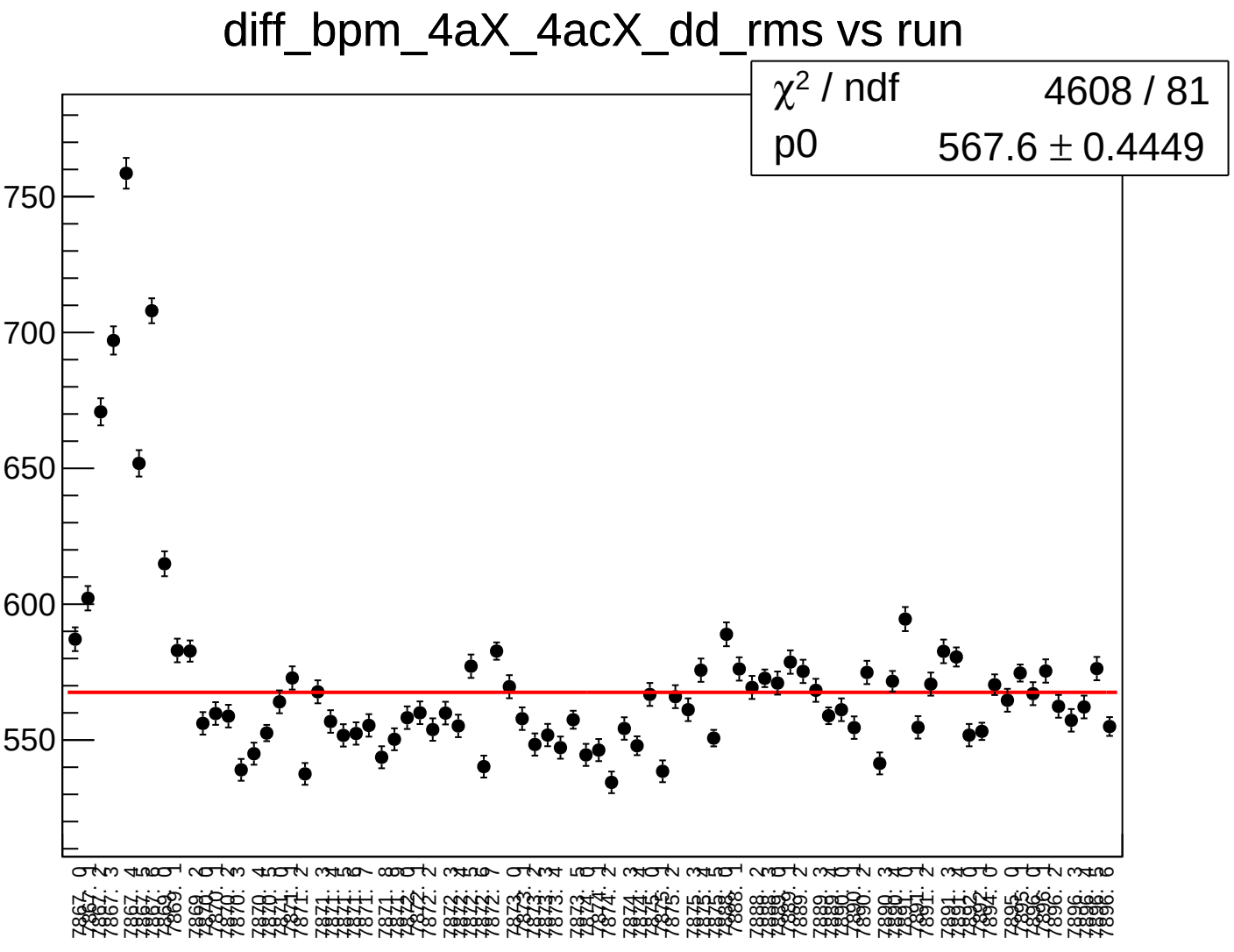

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 69.38 / 81
p0 −7.289 ± 30.63
1000
500
0
−500
−1000
pull
Entries 82
Mean −158.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

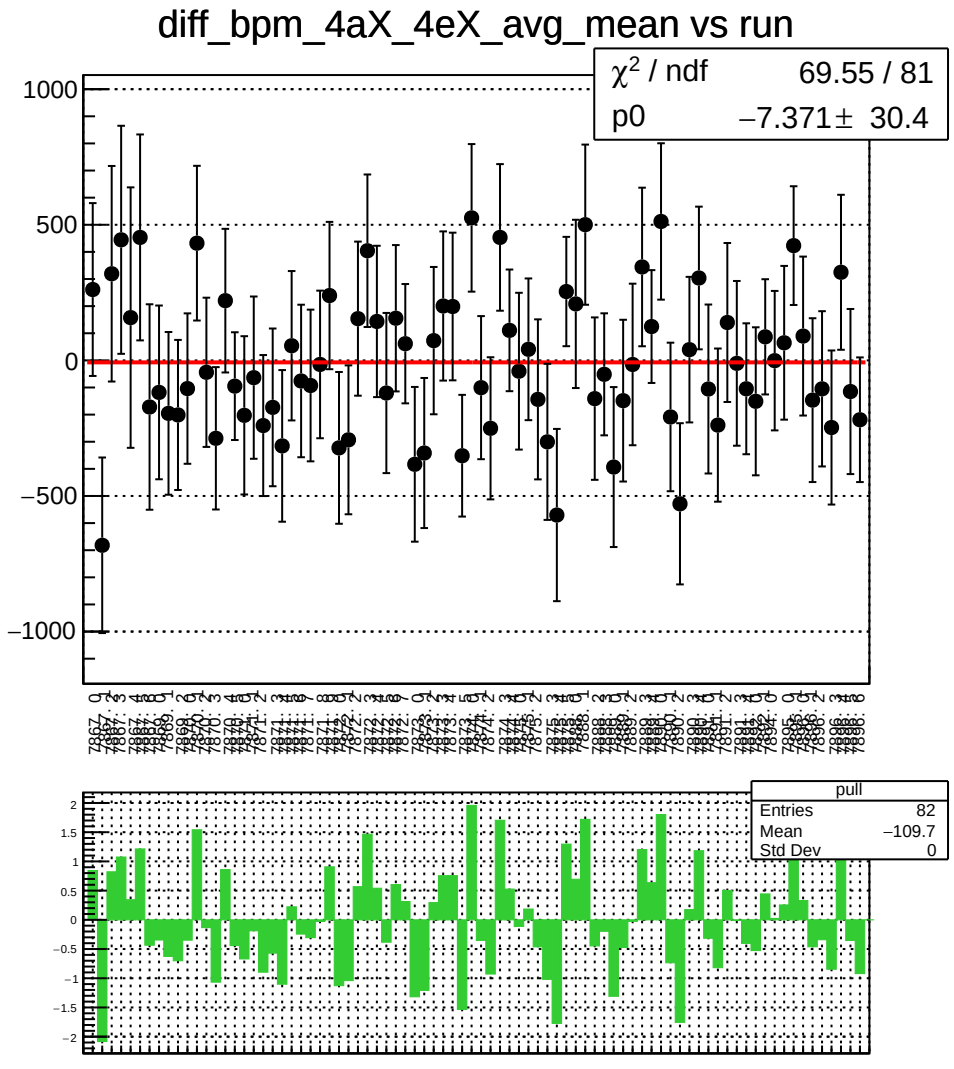

pull1D
Entries 82
Mean −0.004823
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

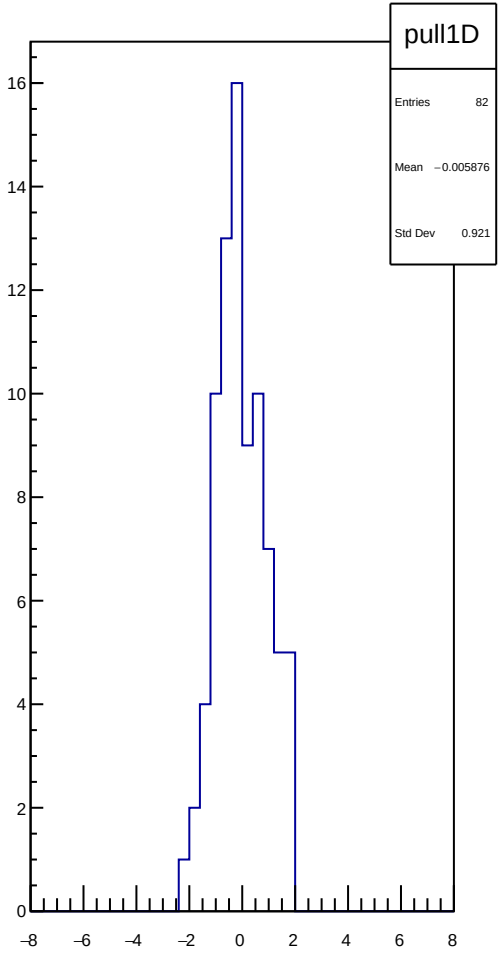

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.389e+04 / 81
p0 2.755e+04 ± 21.66
45000
40000
35000
30000
25000

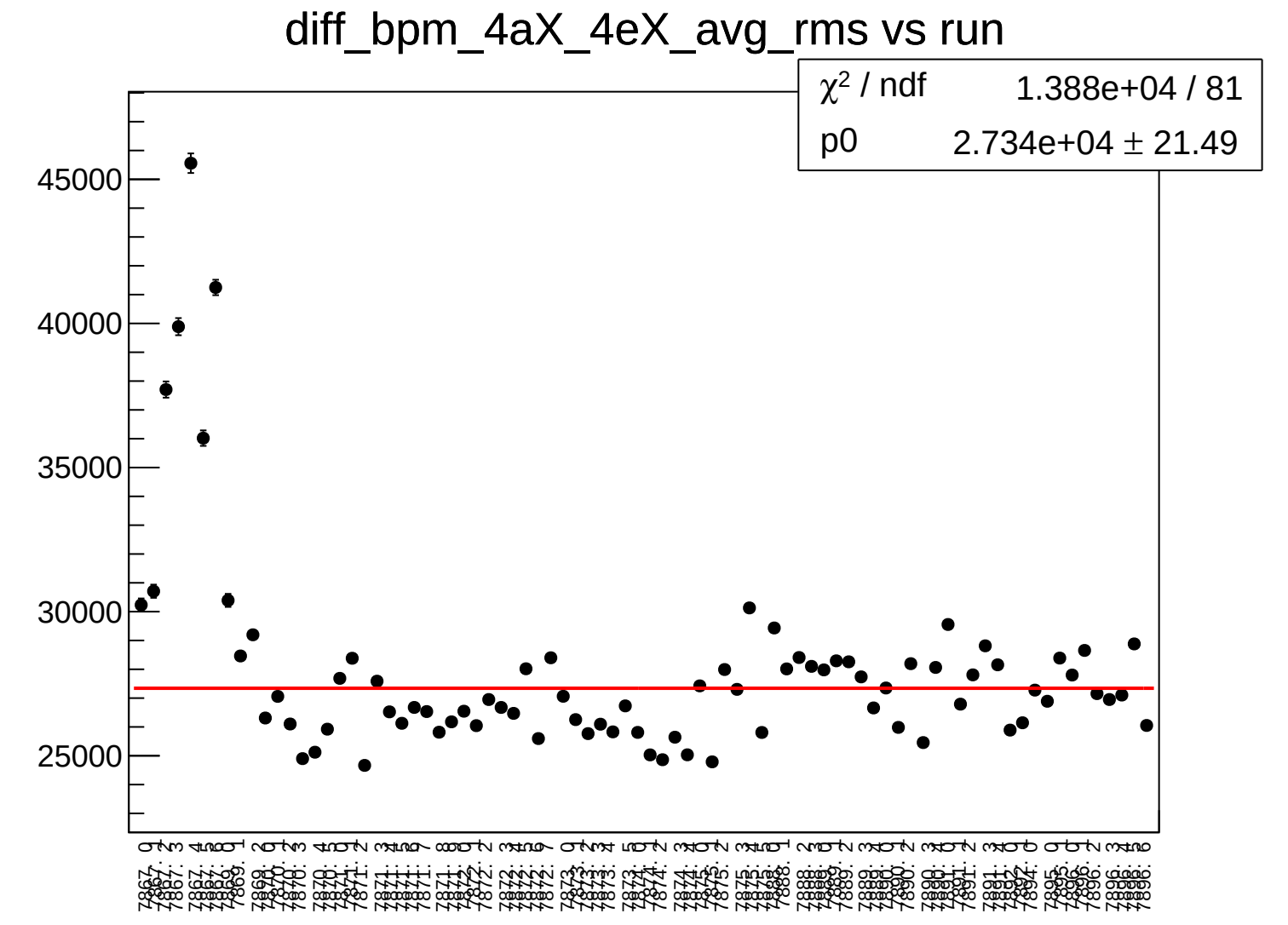

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 85.89 / 81
p0 −0.9263 ± 0.6292
pull
Entries 82
Mean 113.5
Std Dev 0

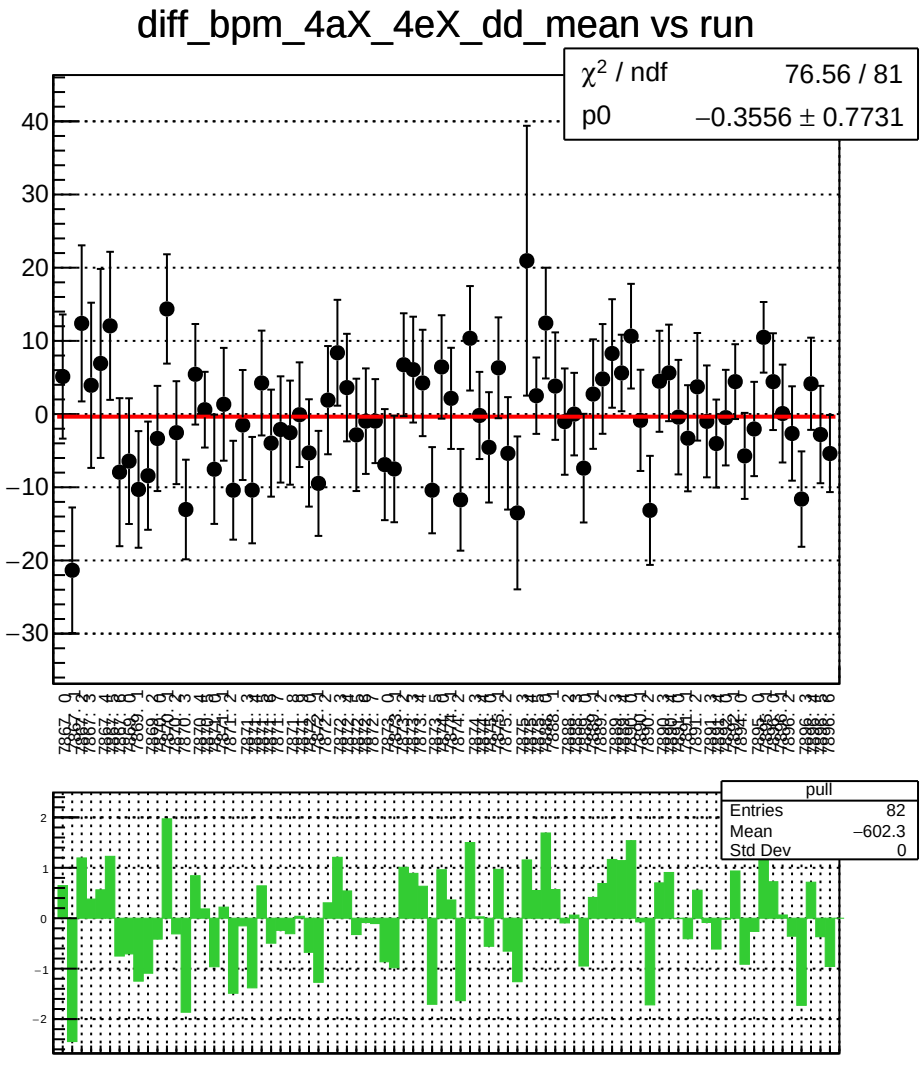

pull1D
Entries 82
Mean −0.01004
Std Dev 1.023

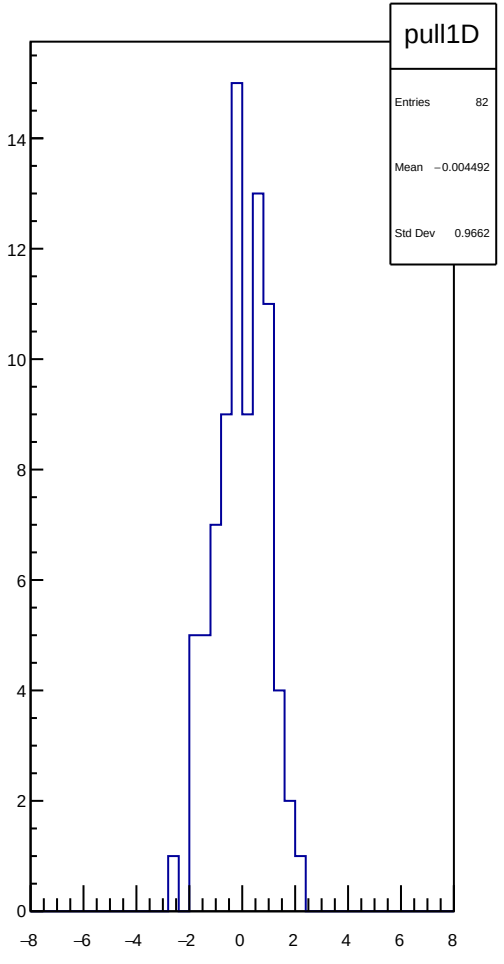

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 4608 / 81
p0 567.6 ± 0.4449
750
700
650
600
550

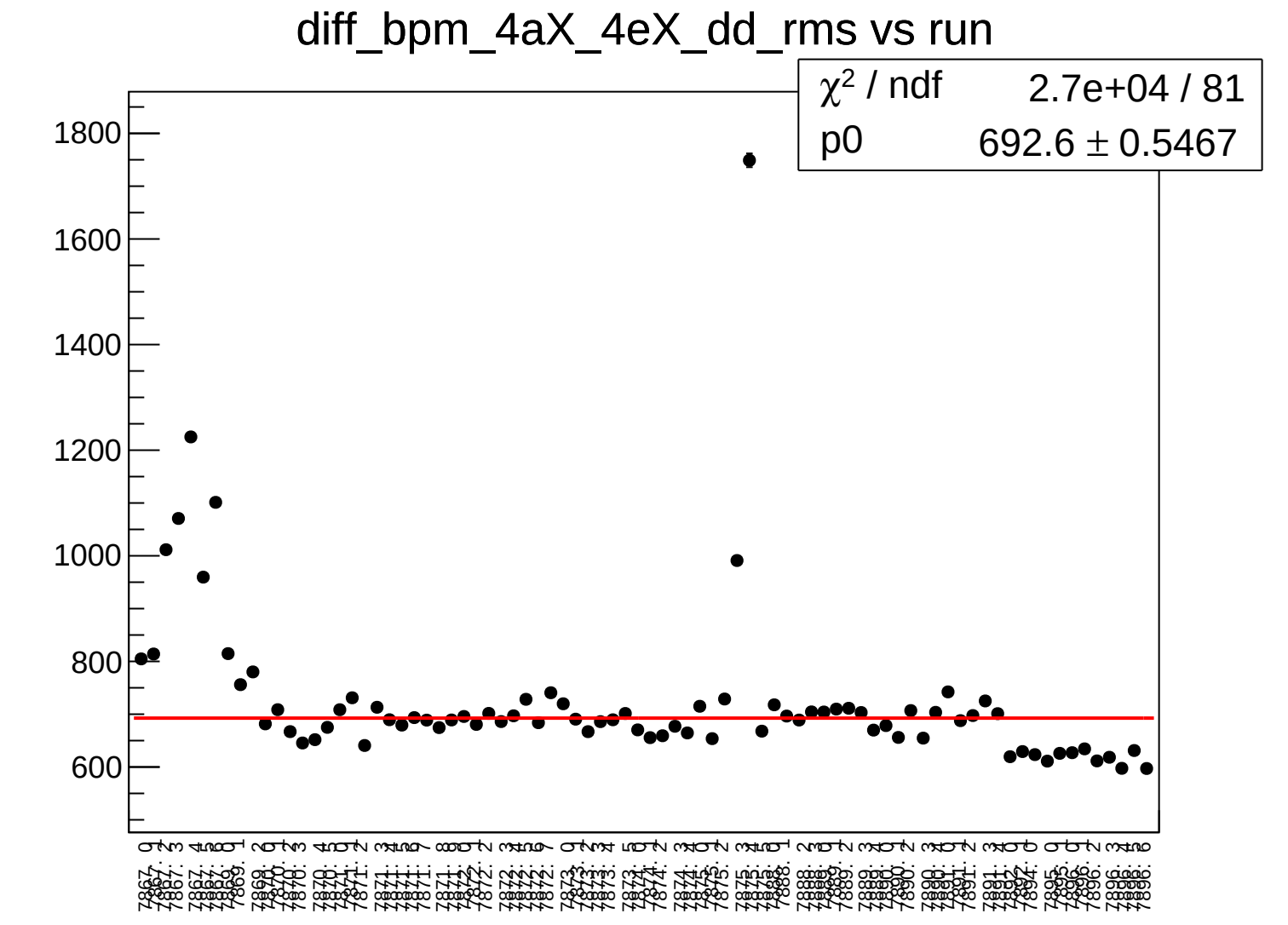

diff_bpm_4aX_4eX_avg_mean vs run
χ^2 / ndf 69.55 / 81
p0 −7.371± 30.4
1000
500
0
−500
−1000
pull
Entries 82
Mean −109.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

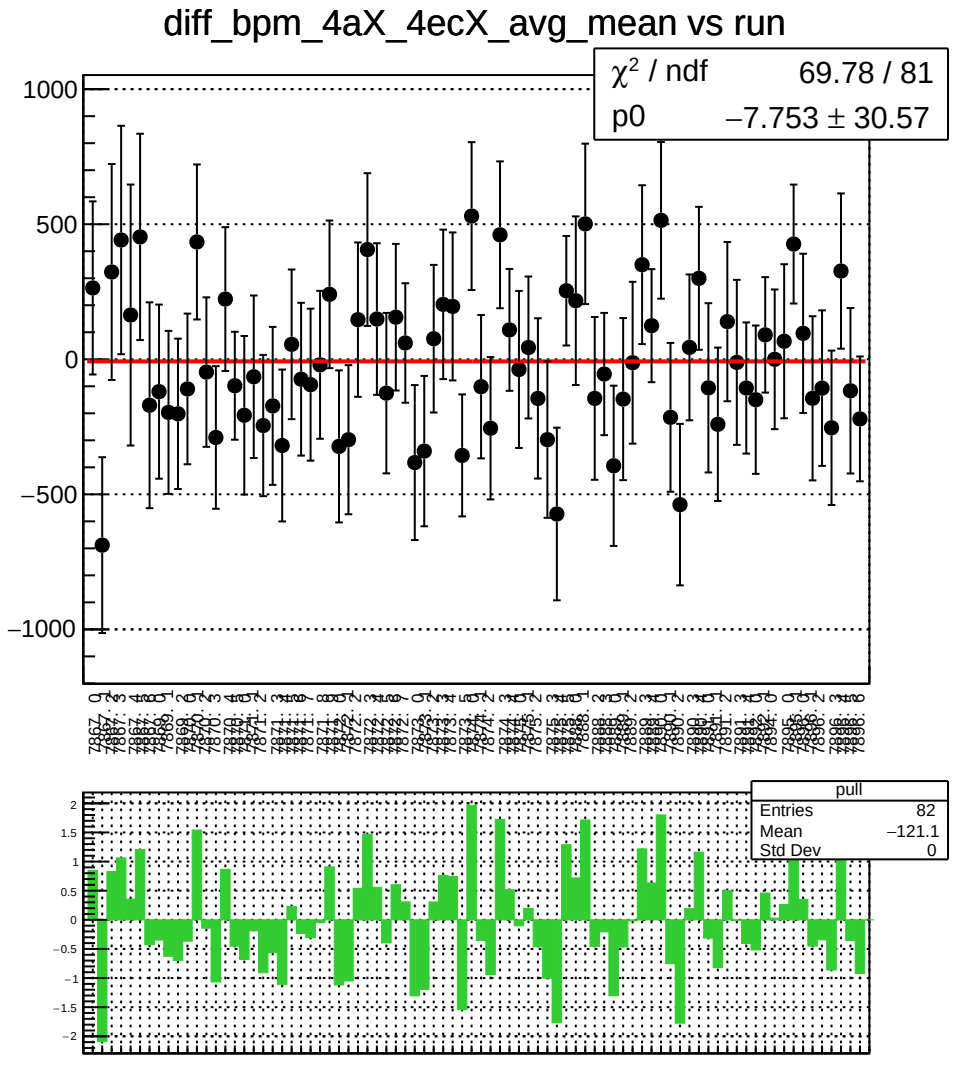

pull1D
Entries 82
Mean −0.005876
Std Dev 0.921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

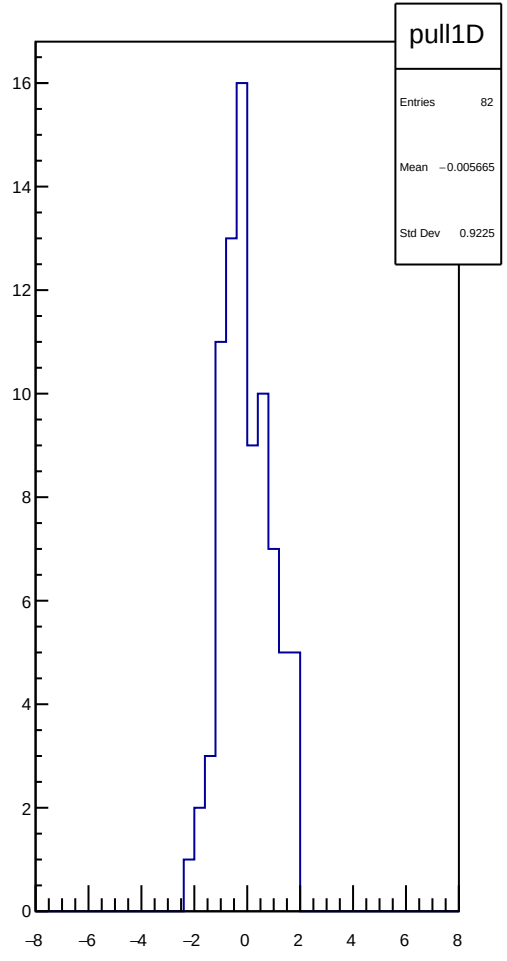

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.388e+04 / 81
p0 2.734e+04 ± 21.49
45000
40000
35000
30000
25000

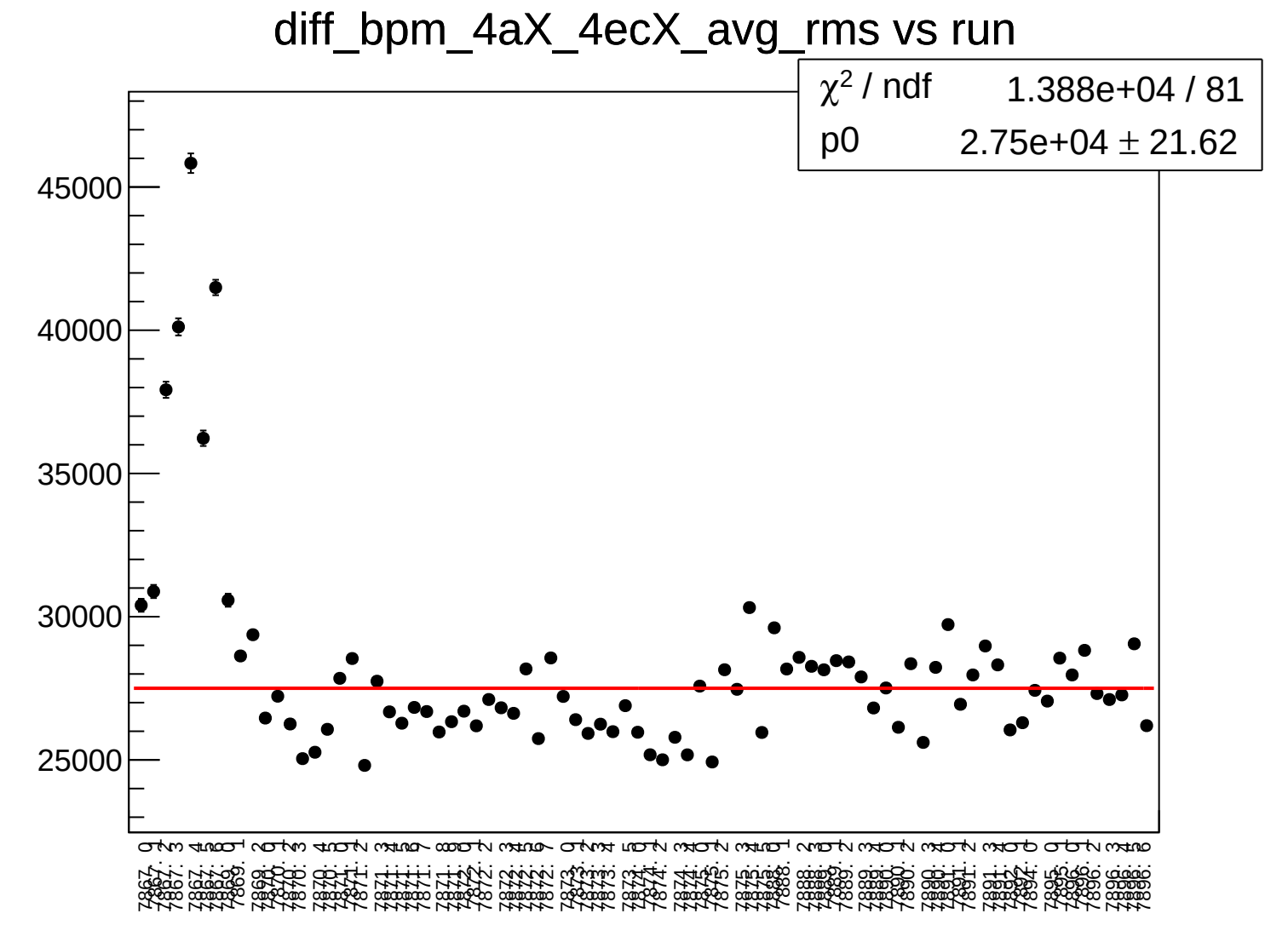

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 76.56 / 81
p0 −0.3556 ± 0.7731
pull
Entries 82
Mean −602.3
Std Dev 0

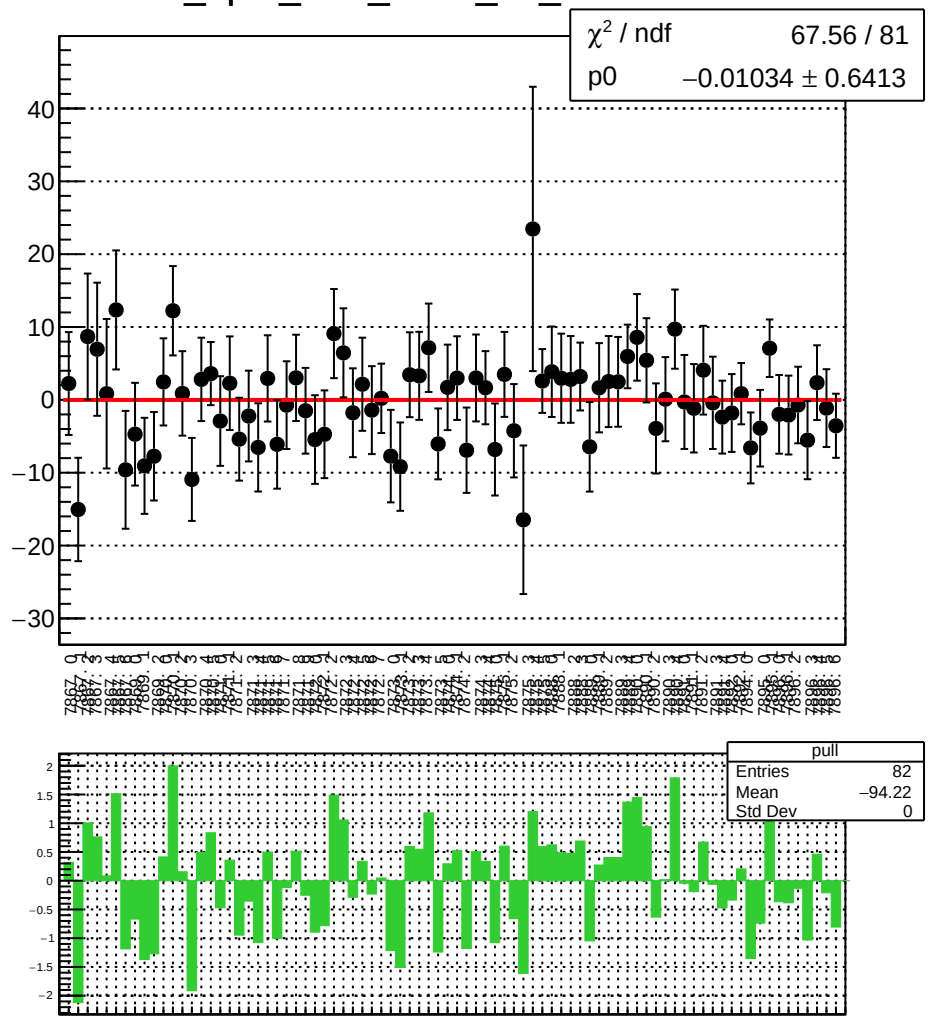

pull1D
Entries 82
Mean −0.004492
Std Dev 0.9662

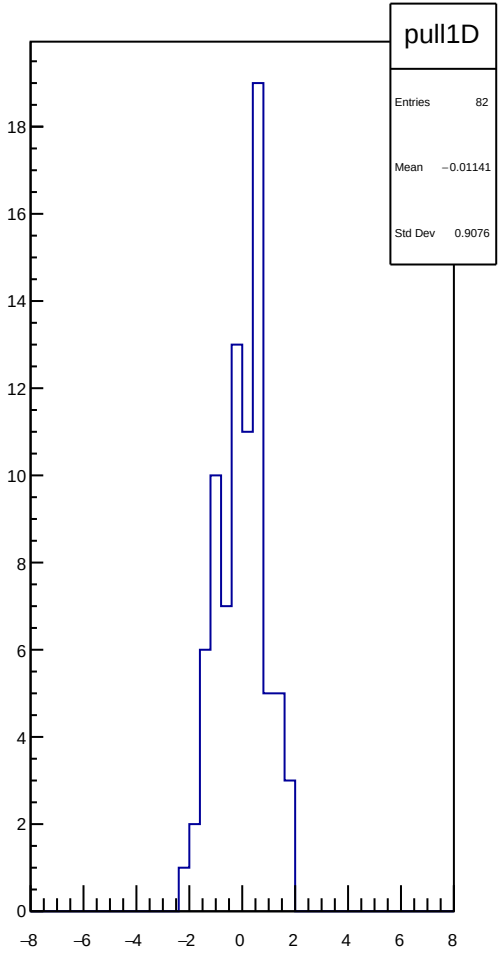

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2.7e+04 / 81
p0 692.6 ± 0.5467
1800
1600
1400
1200
1000
800
600

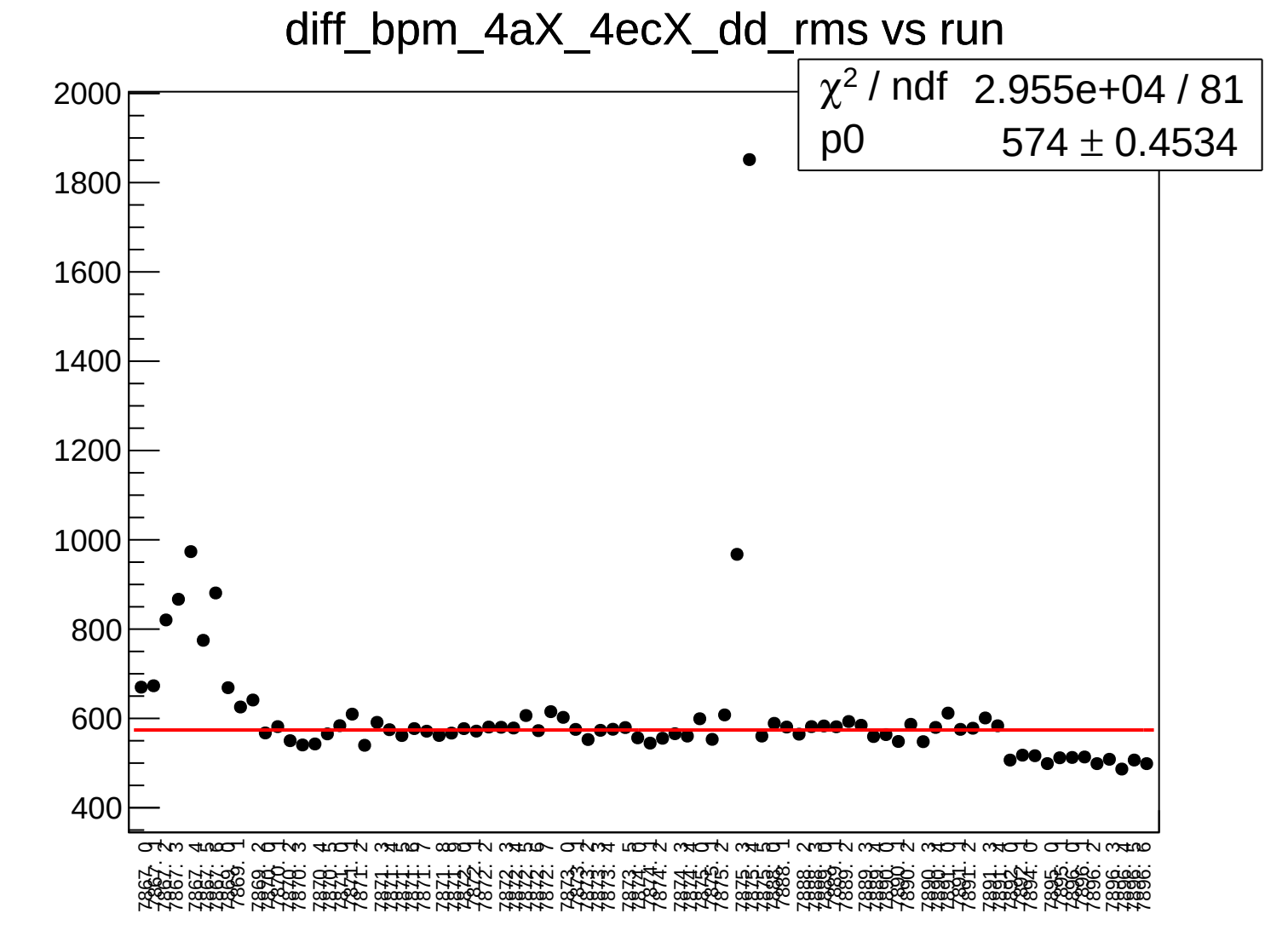

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 69.78 / 81
p0 −7.753 ± 30.57
1000
500
0
−500
−1000
pull
Entries 82
Mean −121.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

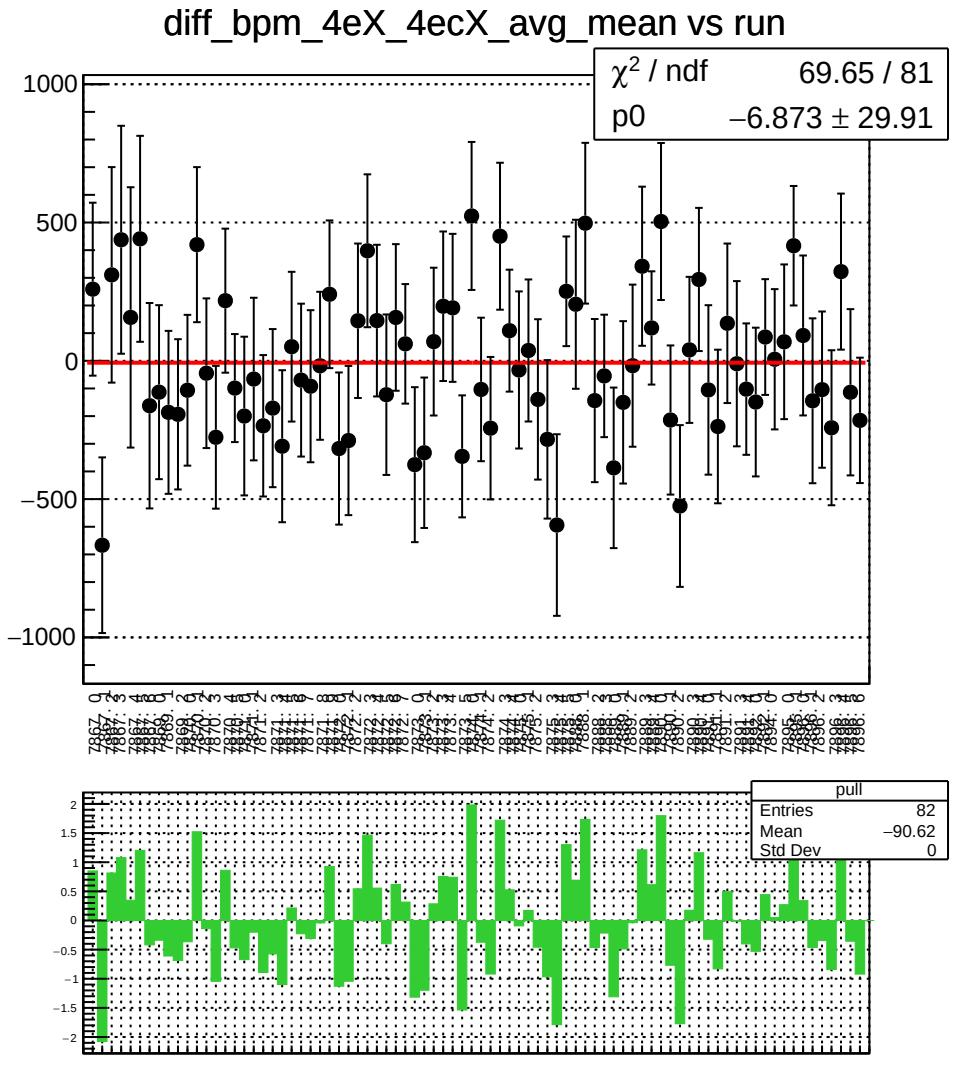

pull1D
Entries 82
Mean −0.005665
Std Dev 0.9225
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

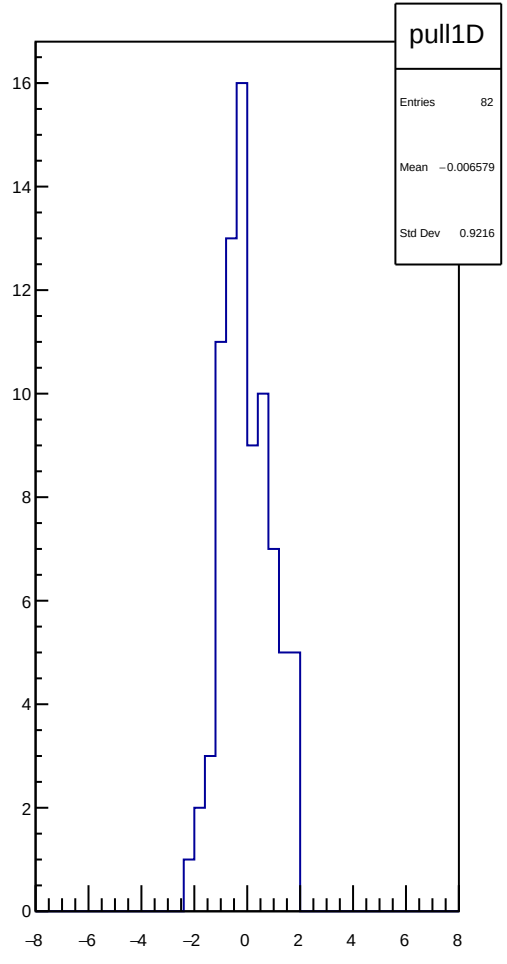

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.388e+04 / 81
p0 2.75e+04 ± 21.62
45000
40000
35000
30000
25000

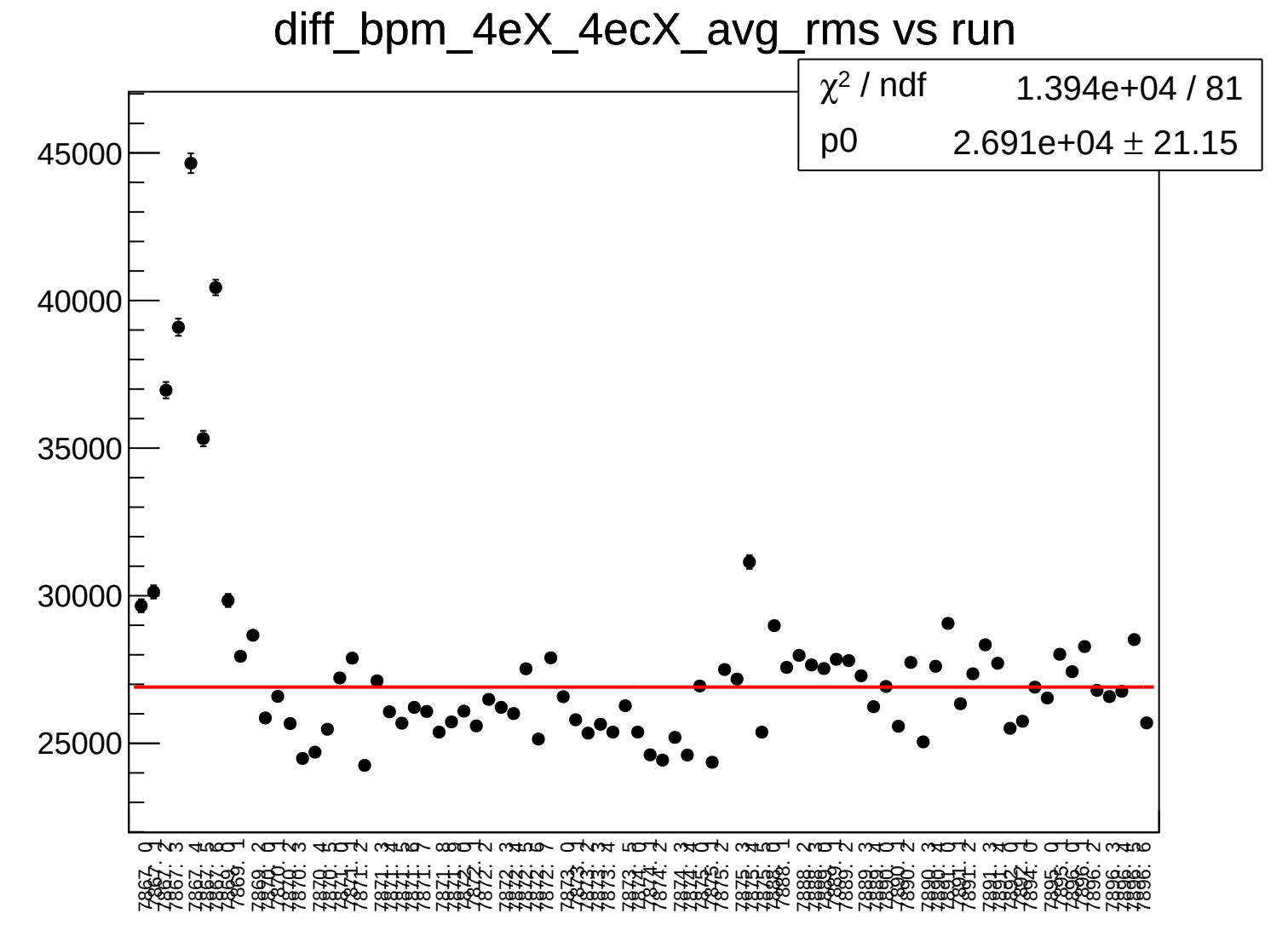

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 67.56 / 81
p0 −0.01034 ± 0.6413
pull
Entries 82
Mean −94.22
Std Dev 0

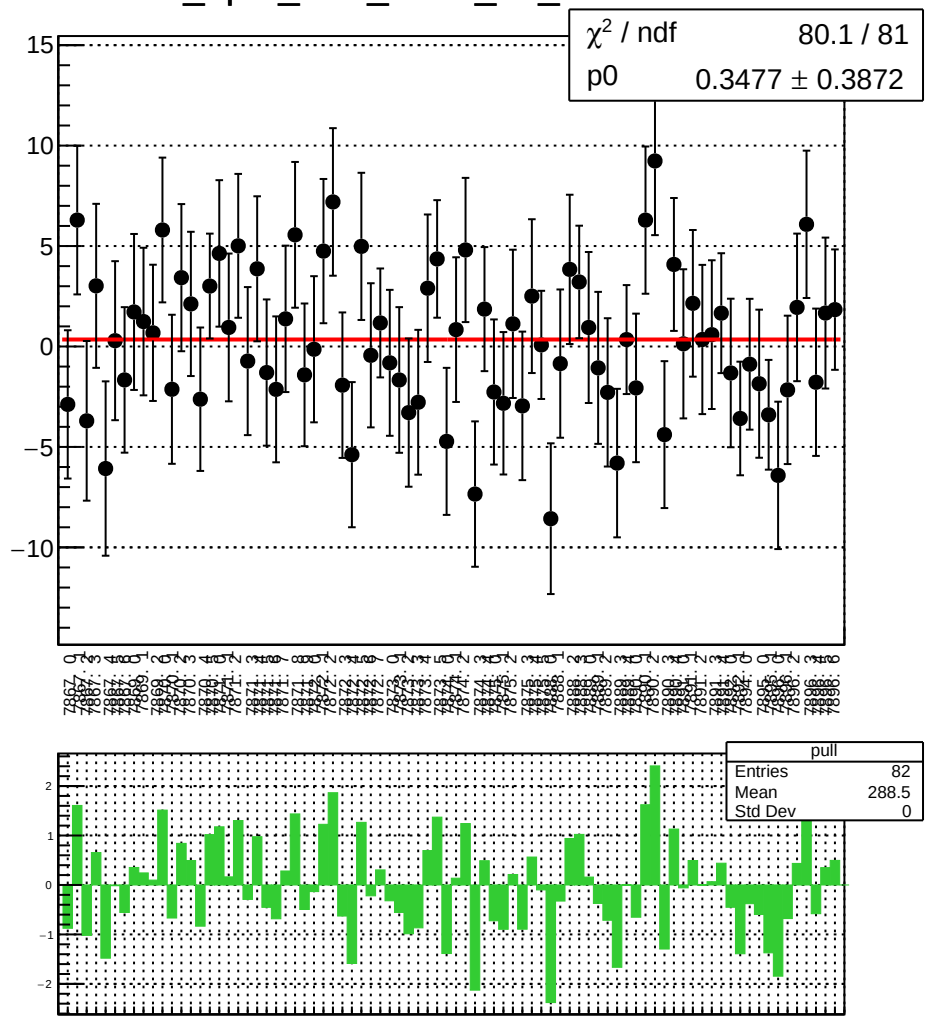

pull1D
Entries 82
Mean −0.01141
Std Dev 0.9076

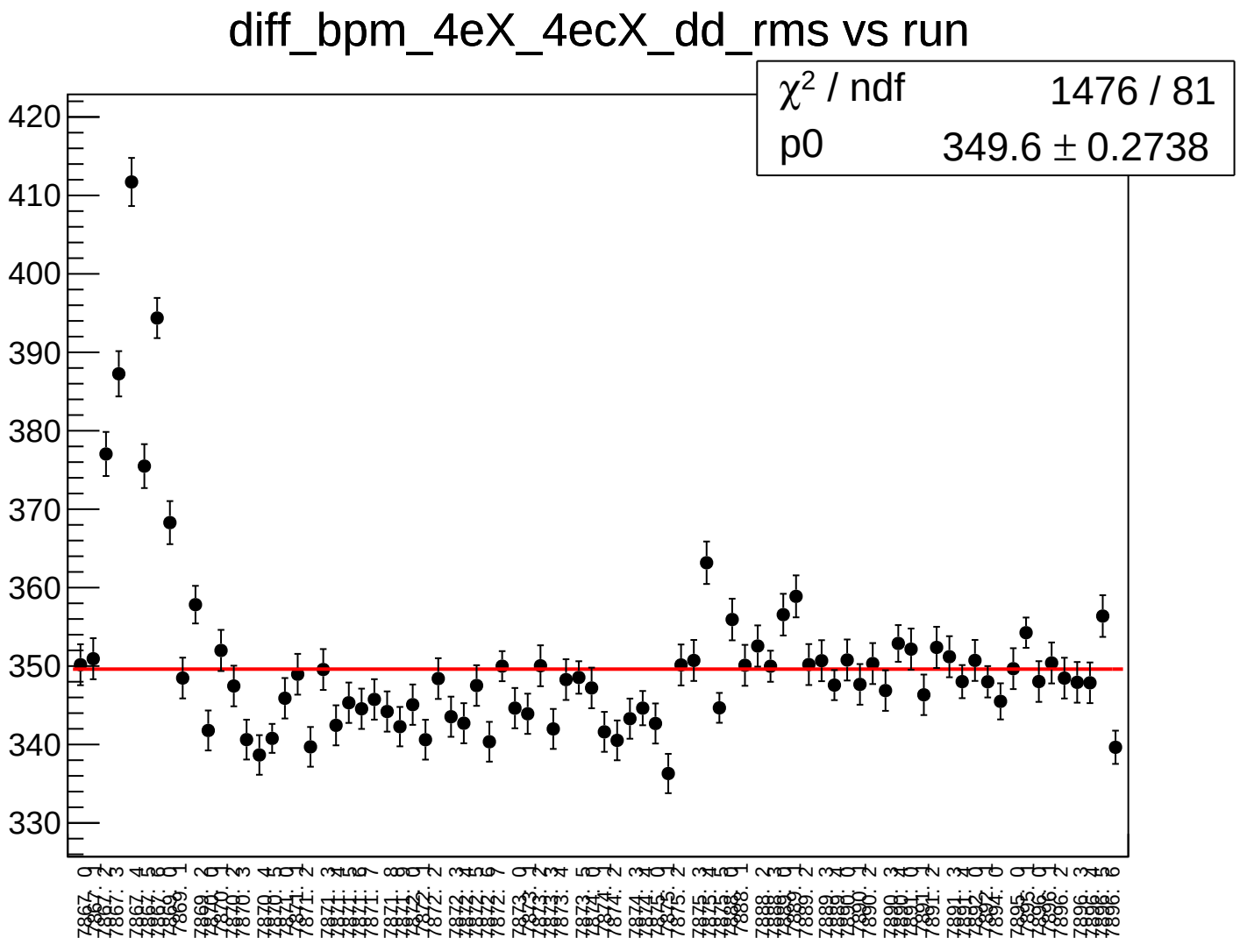

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2.955e+04 / 81
p0 574 ± 0.4534
2000
1800
1600
1400
1200
1000
800
600
400

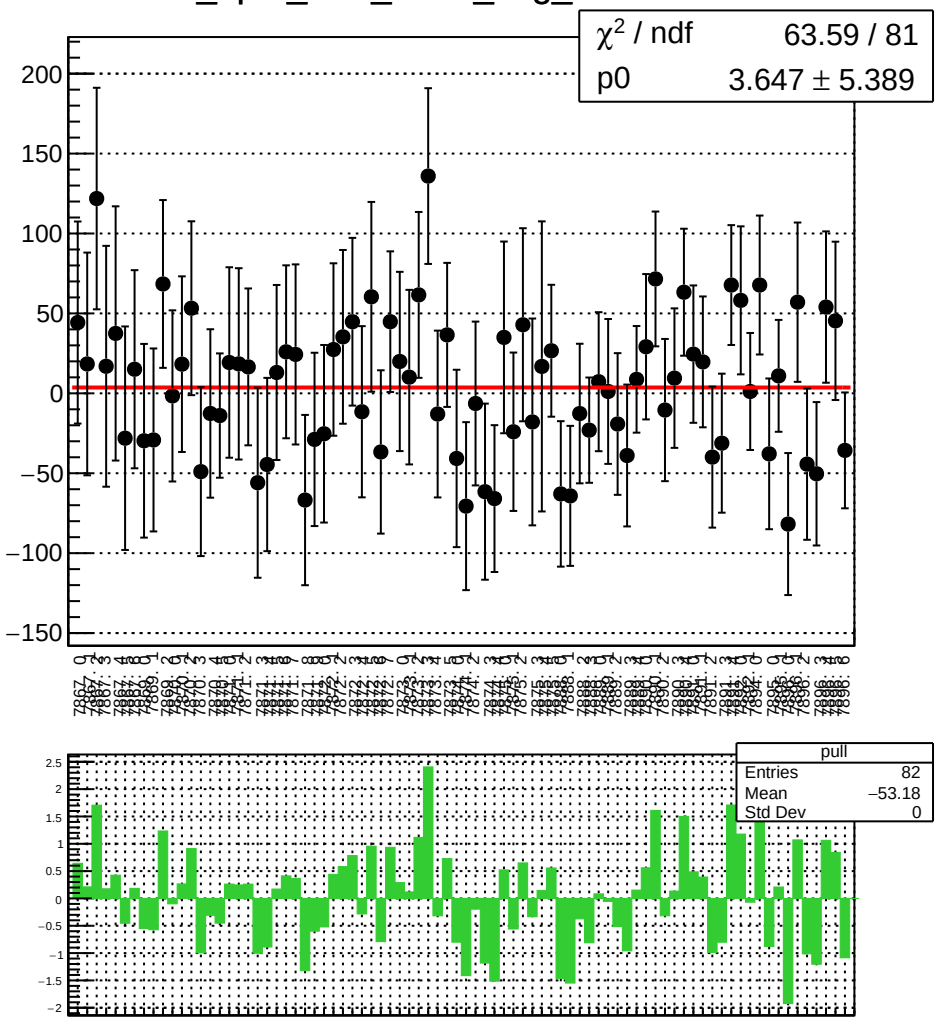

diff_bpm_4eX_4ecX_avg_mean vs run
χ^2 / ndf 69.65 / 81
p0 −6.873 ± 29.91
1000
500
0
−500
−1000
pull
Entries 82
Mean −90.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

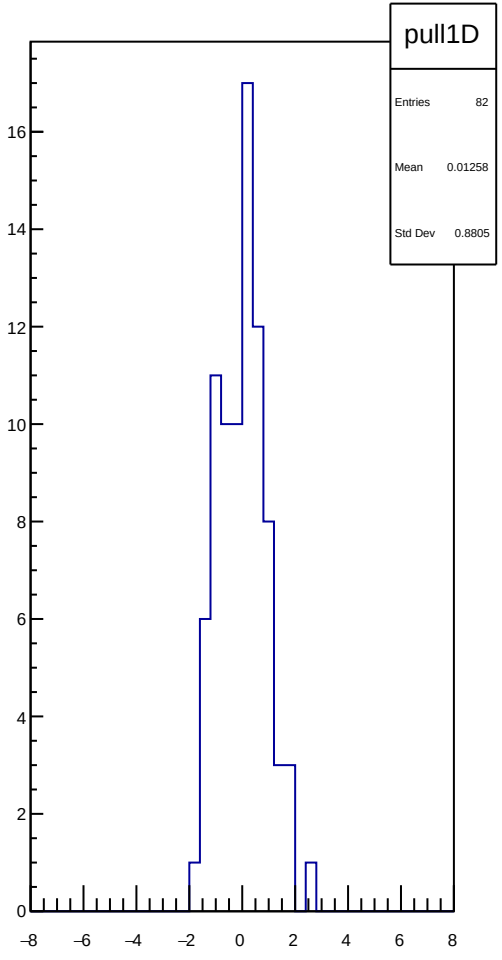

pull1D
Entries 82
Mean −0.006579
Std Dev 0.9216
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

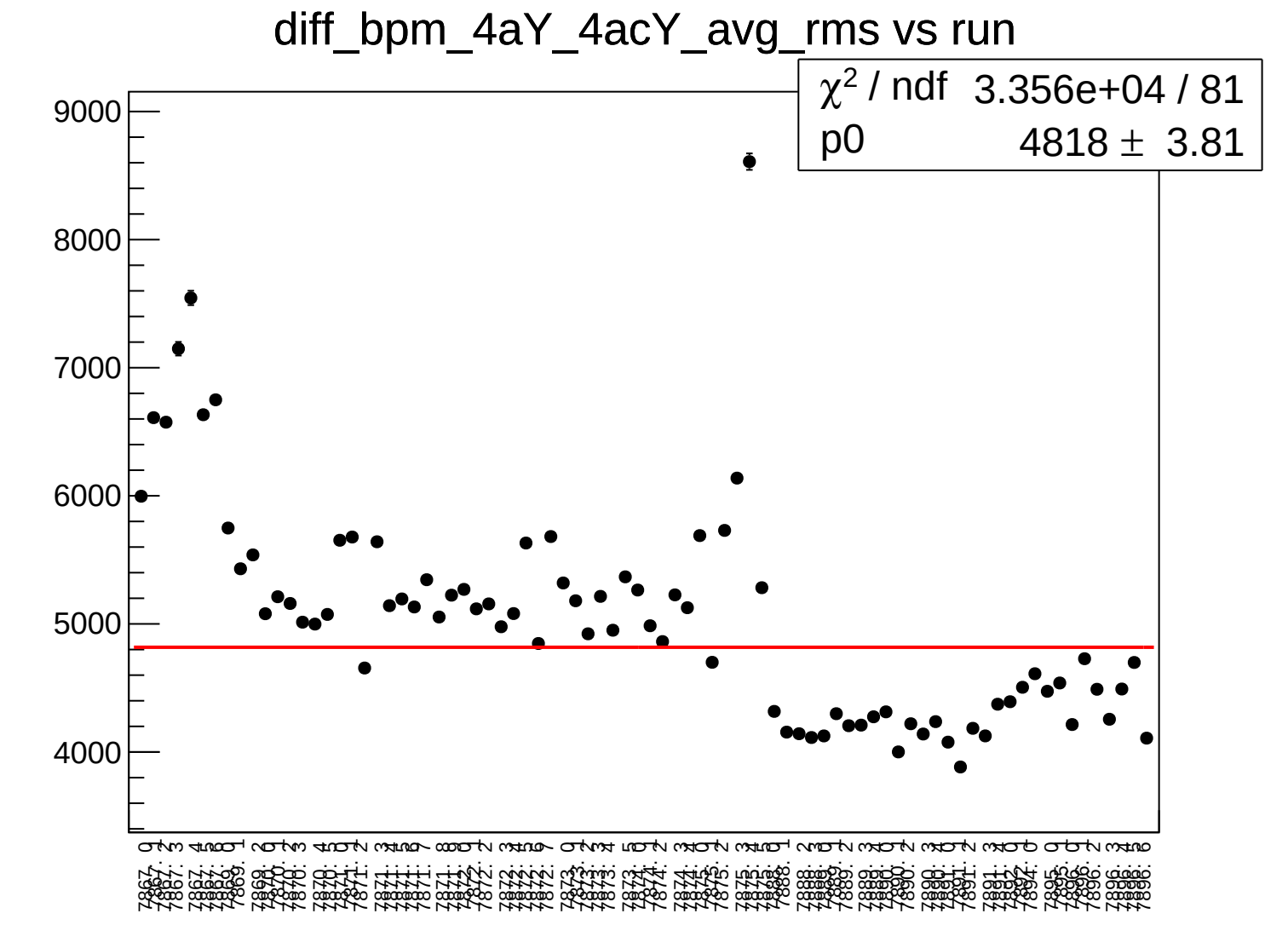

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.394e+04 / 81
p0 2.691e+04 ± 21.15
45000
40000
35000
30000
25000

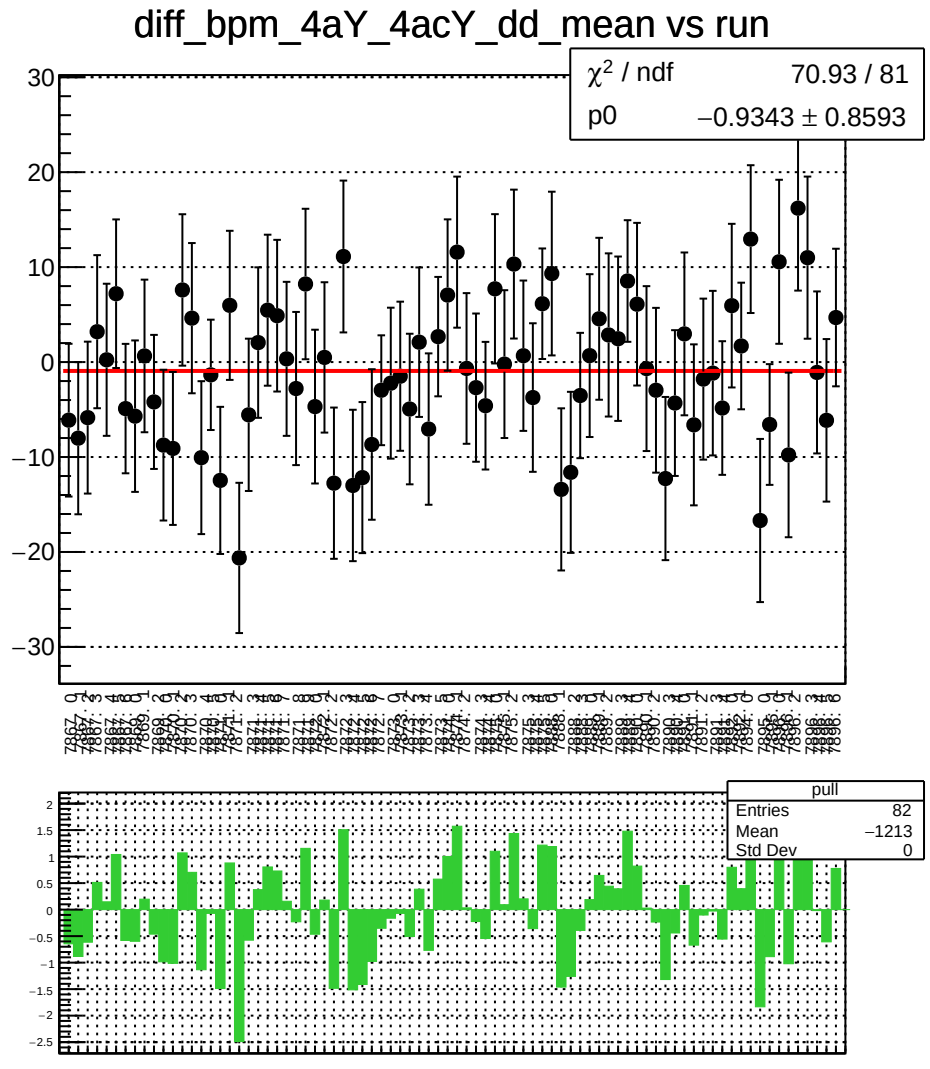

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 80.1 / 81
p0 0.3477 ± 0.3872
pull
Entries 82
Mean 288.5
Std Dev 0
pull1D
Entries 82
Mean −0.01088
Std Dev 0.9883

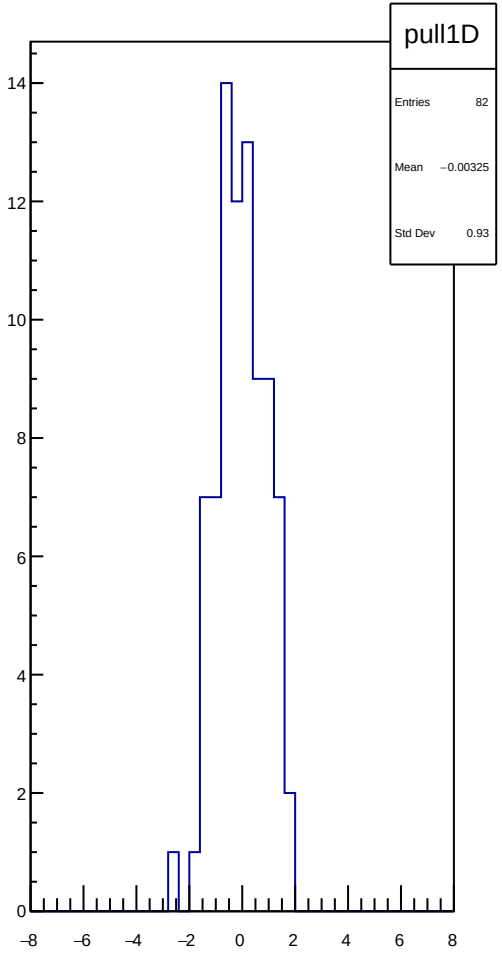

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1476 / 81
p0 349.6 ± 0.2738
420
410
400
390
380
370
360
350
340
330

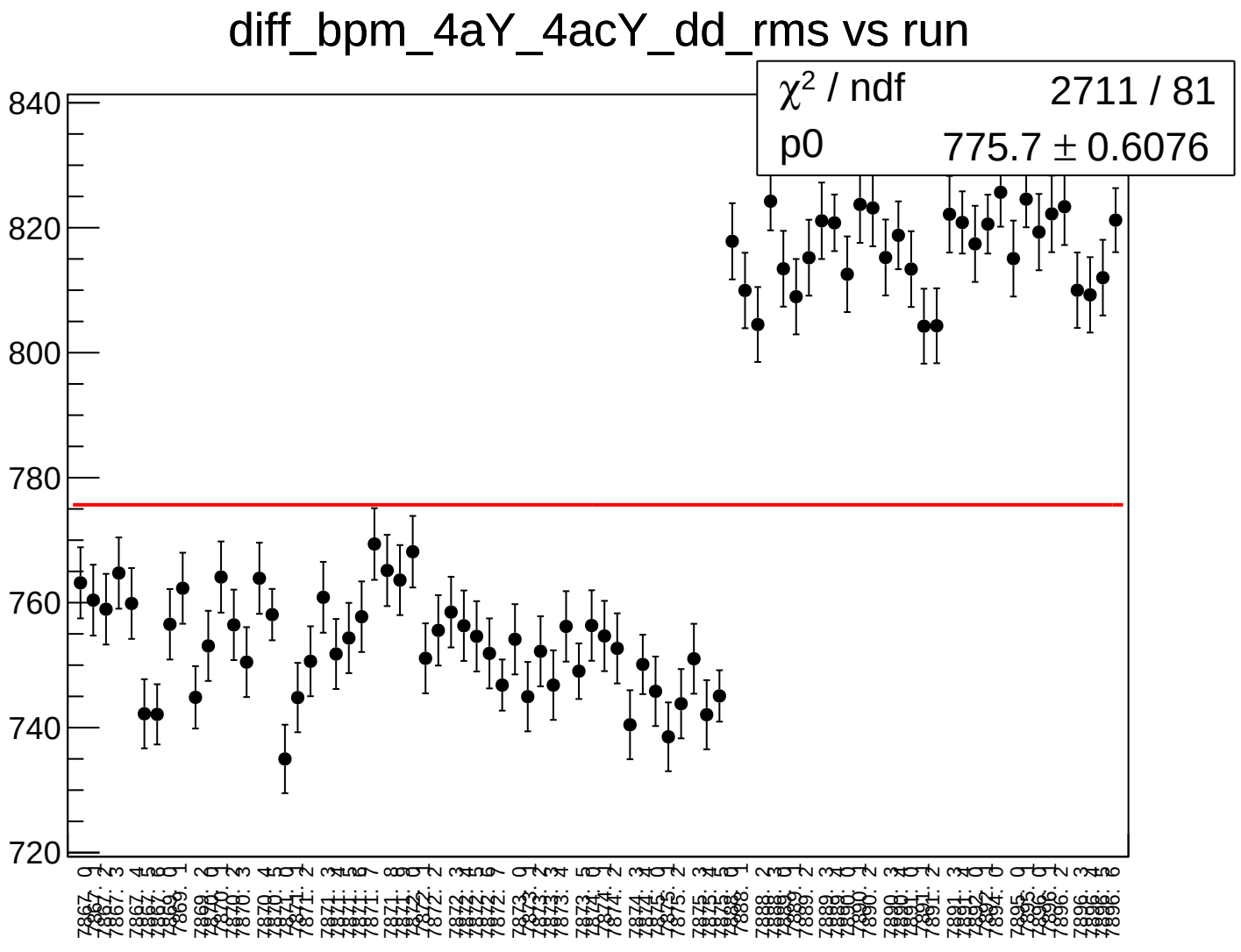

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 63.59 / 81
p0 3.647 ± 5.389
pull
Entries 82
Mean −53.18
Std Dev 0

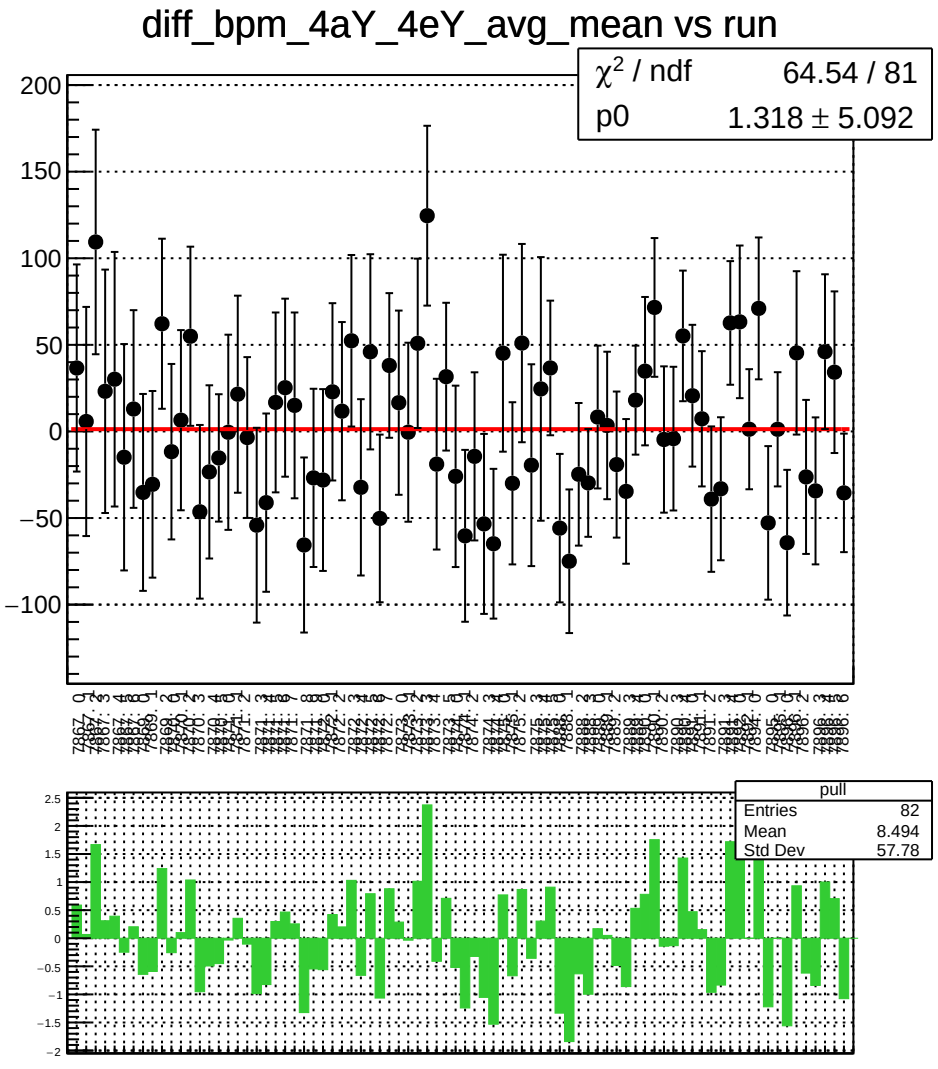

pull1D
Entries 82
Mean 0.01258
Std Dev 0.8805

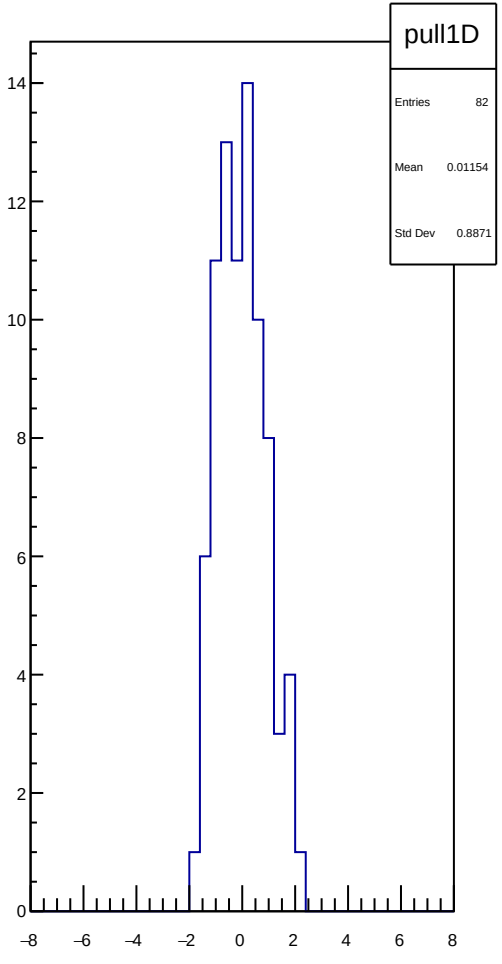

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3.356e+04 / 81
p0 4818 ± 3.81
9000
8000
7000
6000
5000
4000

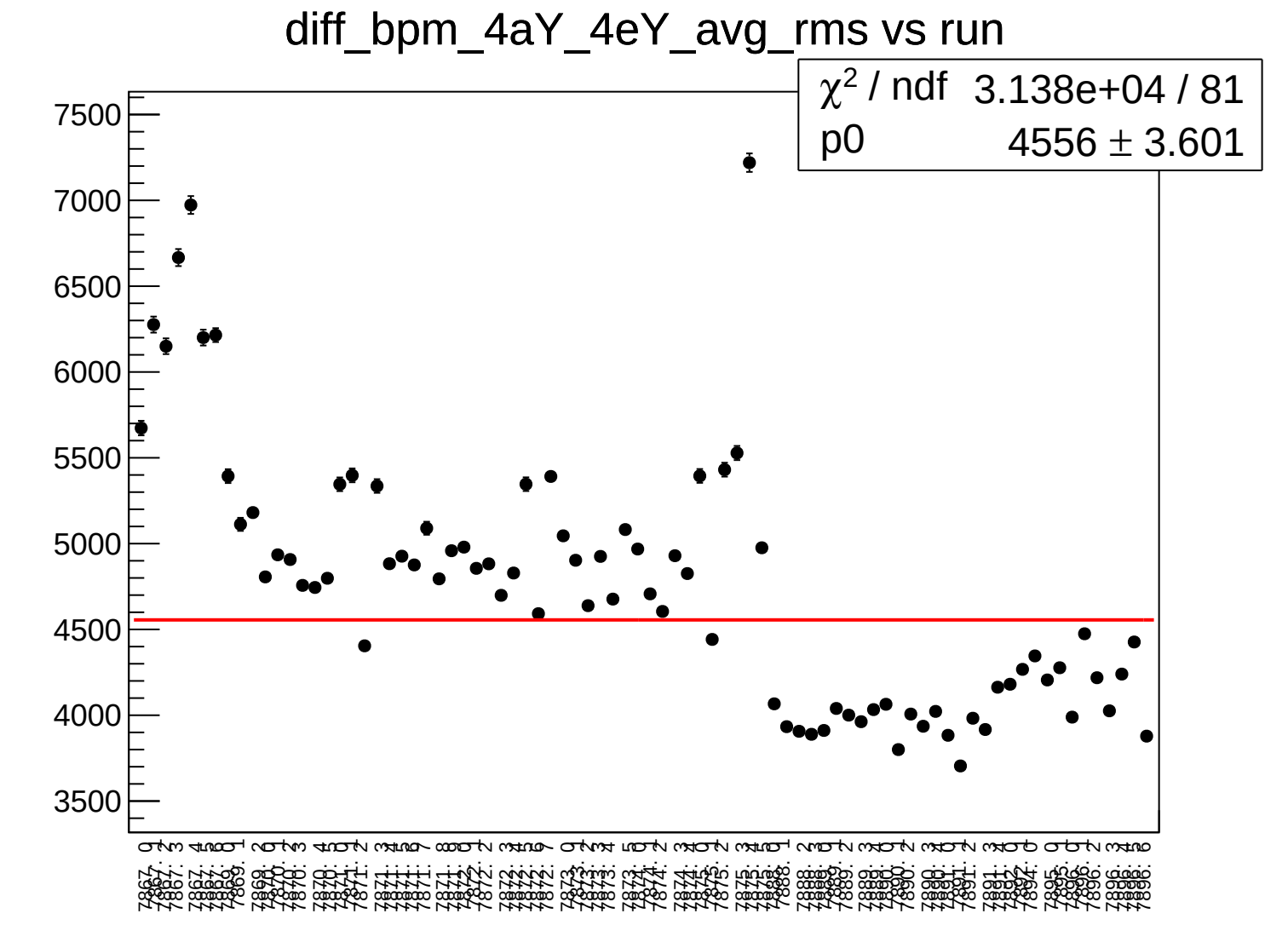

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 70.93 / 81
p0 −0.9343 ± 0.8593
pull
Entries 82
Mean −1213
Std Dev 0

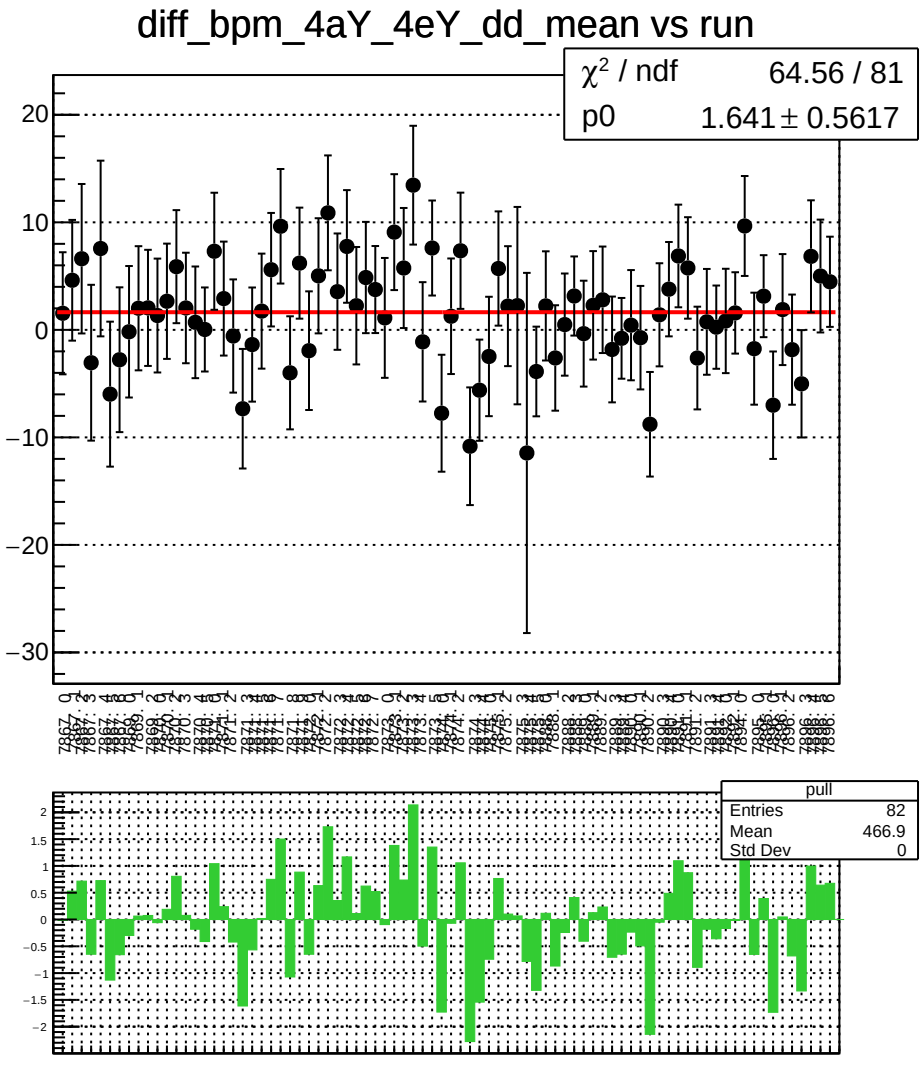

pull1D
Entries 82
Mean −0.00325
Std Dev 0.93

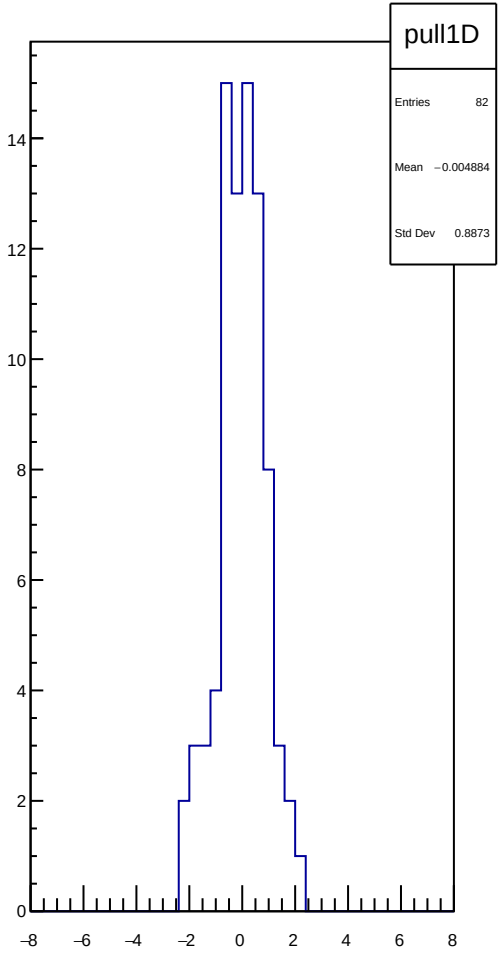

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 2711 / 81
p0 775.7 ± 0.6076
840
820
800
780
760
740
720

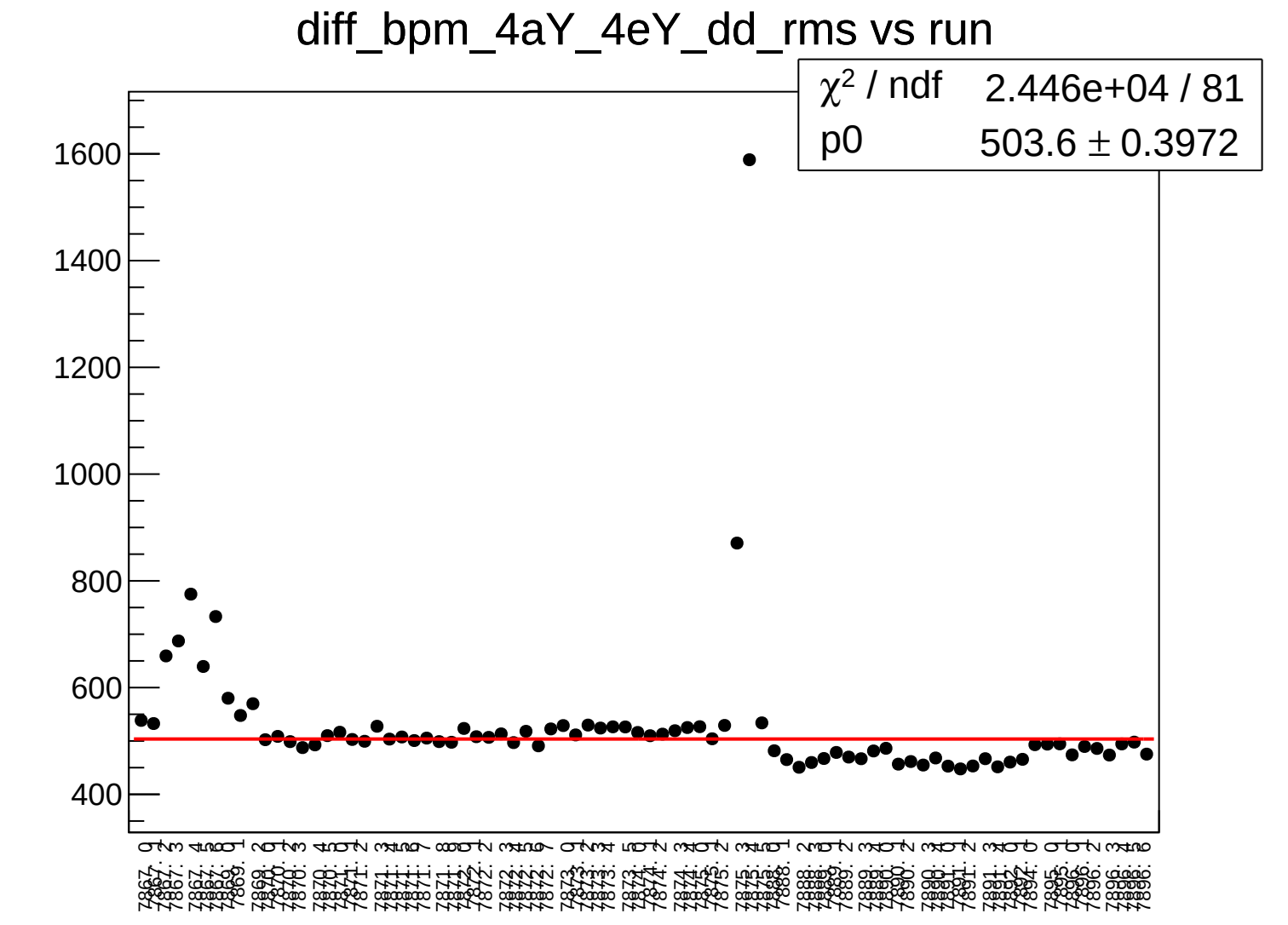

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 64.54 / 81
p0 1.318 ± 5.092
pull
Entries 82
Mean 8.494
Std Dev 57.78

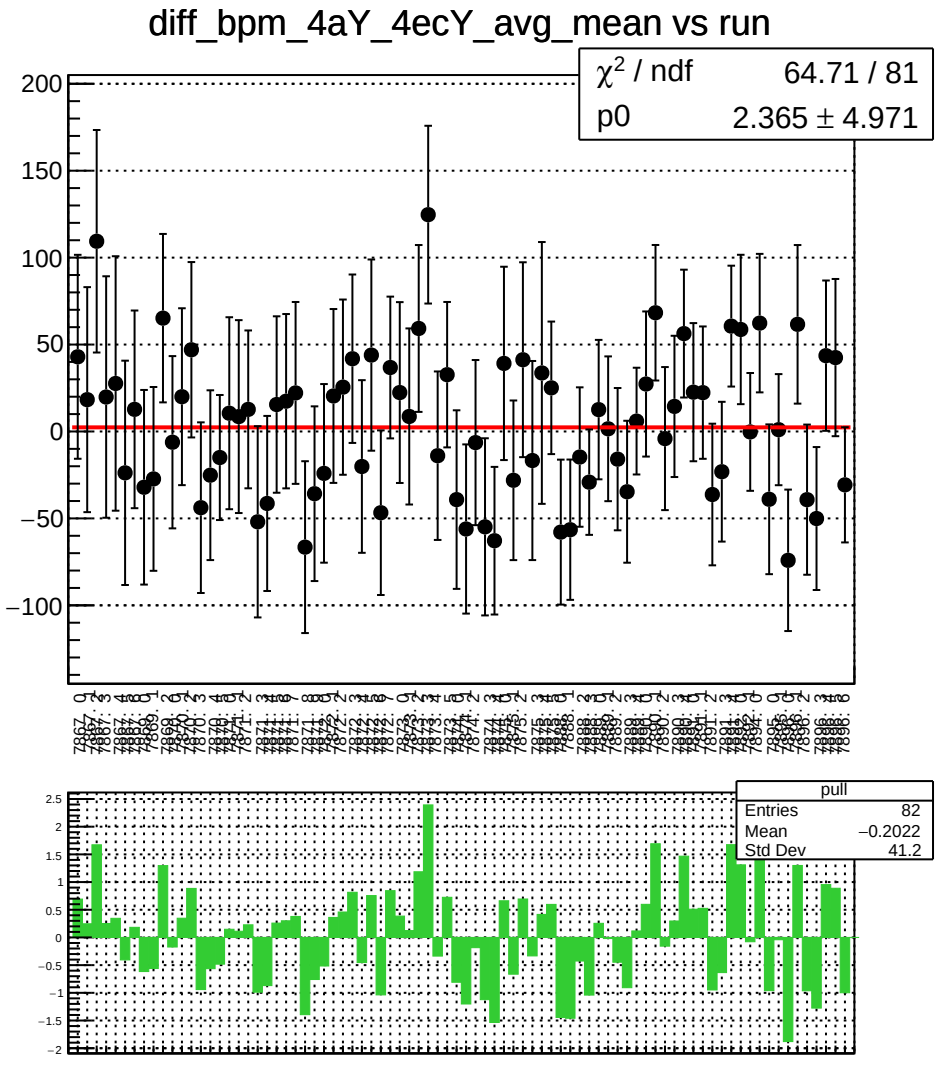

pull1D
Entries 82
Mean 0.01154
Std Dev 0.8871

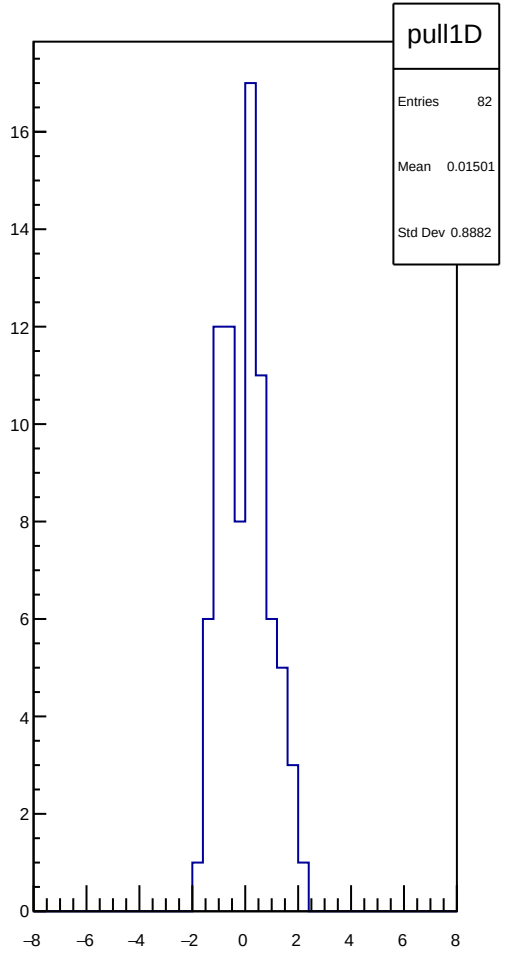

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 3.138e+04 / 81
p0 4556 ± 3.601
7500
7000
6500
6000
5500
5000
4500
4000
3500

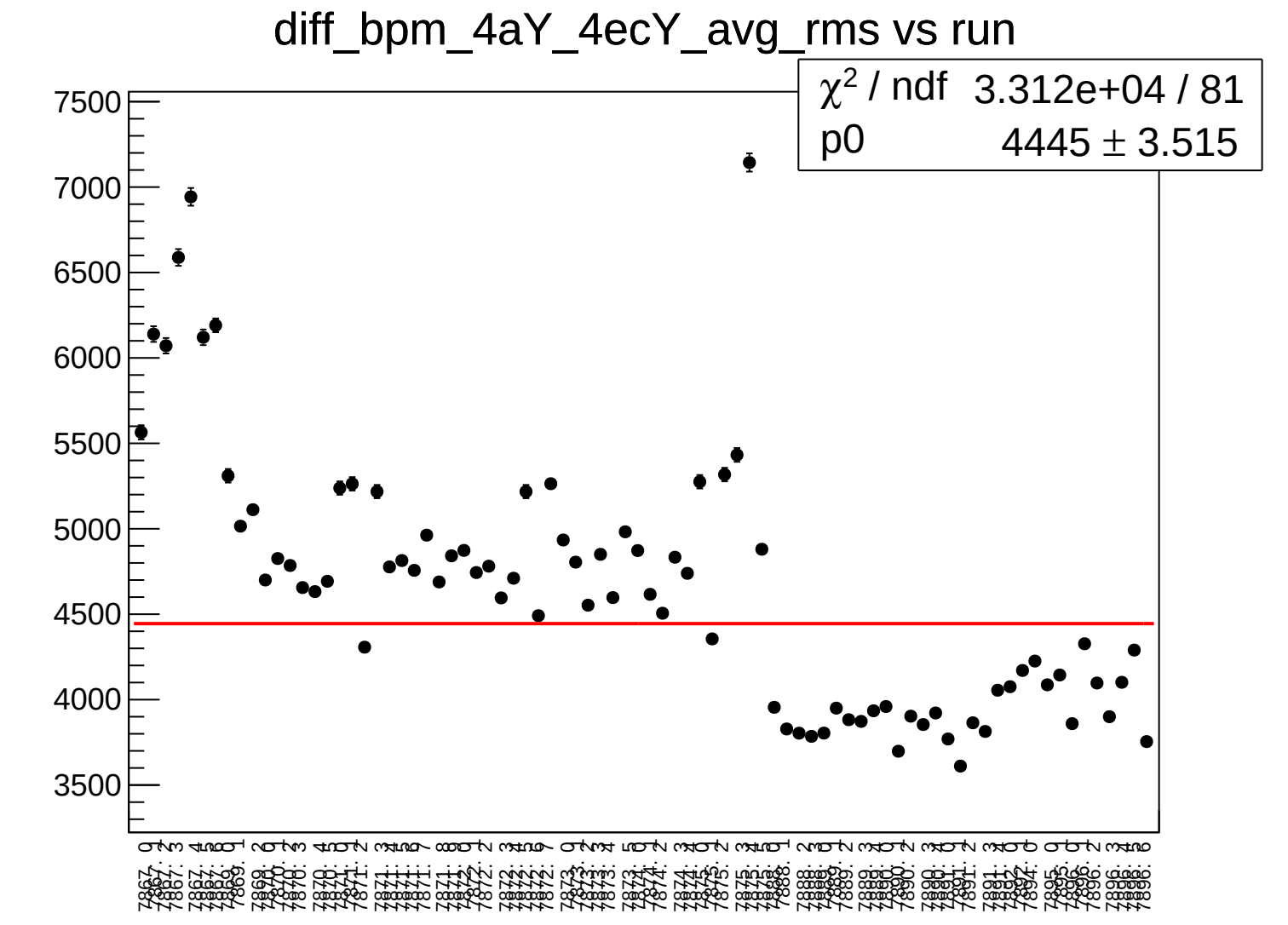

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 64.56 / 81
p0 1.641 ± 0.5617
pull
Entries 82
Mean 466.9
Std Dev 0

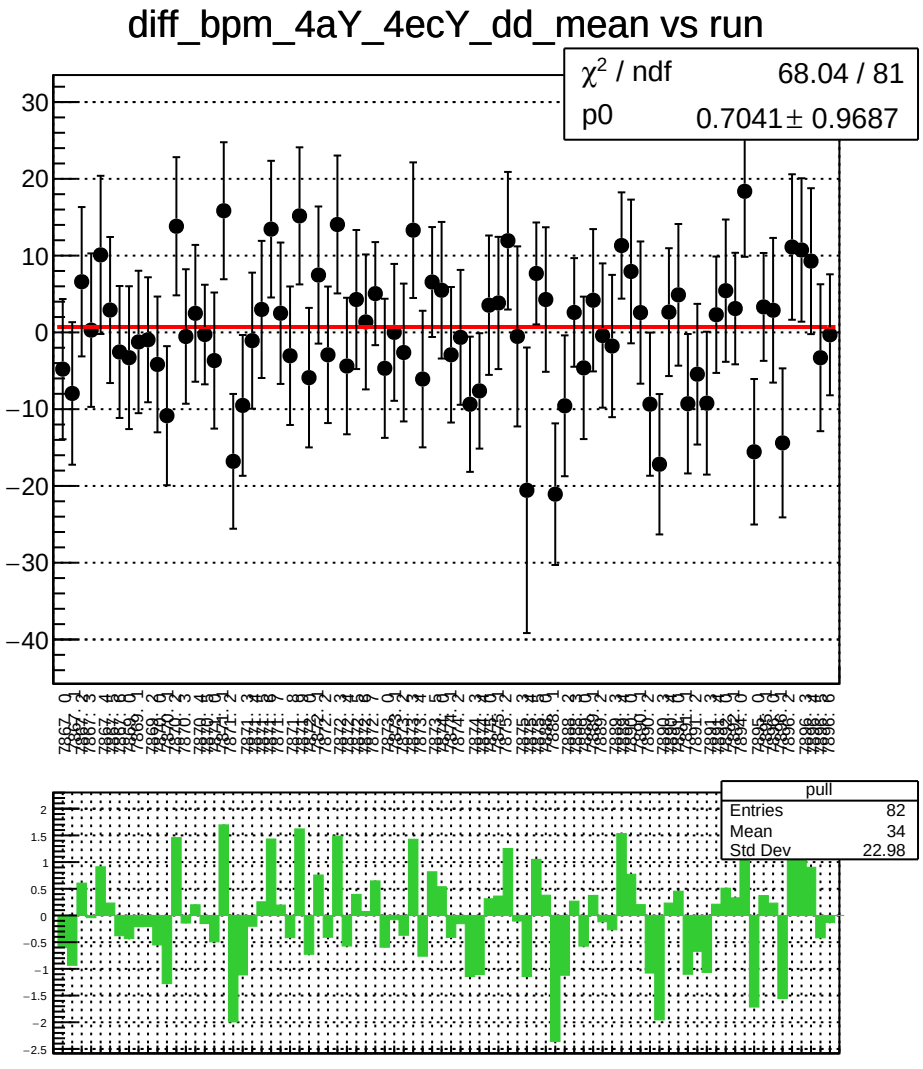

pull1D
Entries 82
Mean −0.004884
Std Dev 0.8873

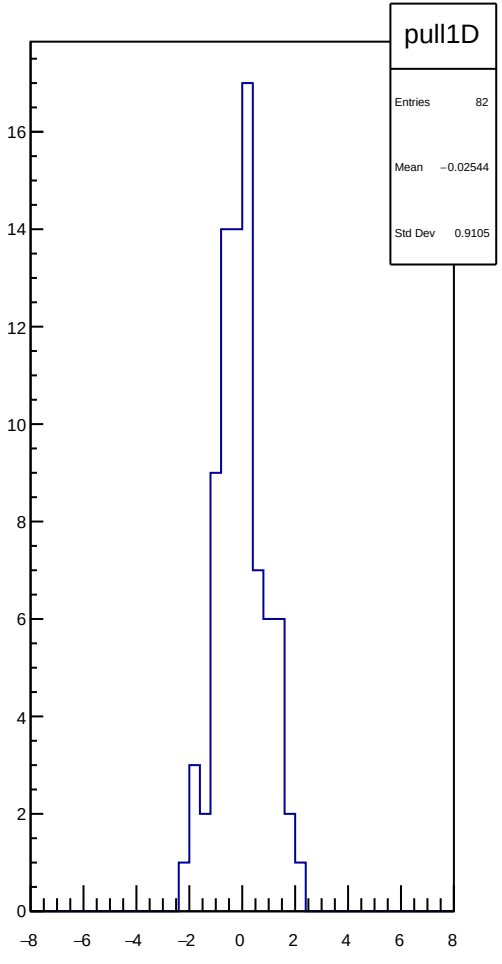

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2.446e+04 / 81
p0 503.6 ± 0.3972
1600
1400
1200
1000
800
600
400

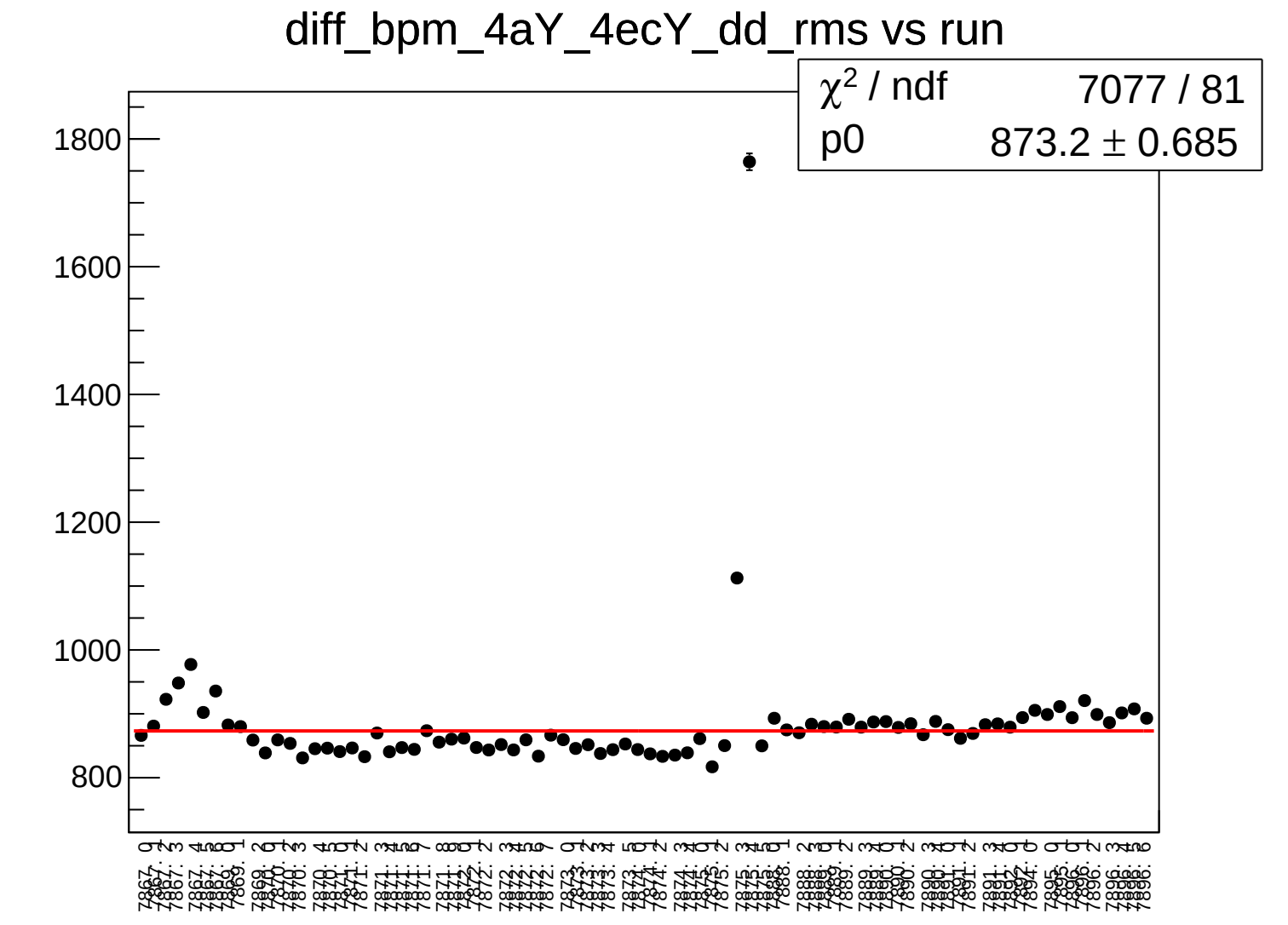

diff_bpm_4aY_4ecY_avg_mean vs run
χ^2 / ndf 64.71 / 81
p0 2.365 ± 4.971
pull
Entries 82
Mean −0.2022
Std Dev 41.2

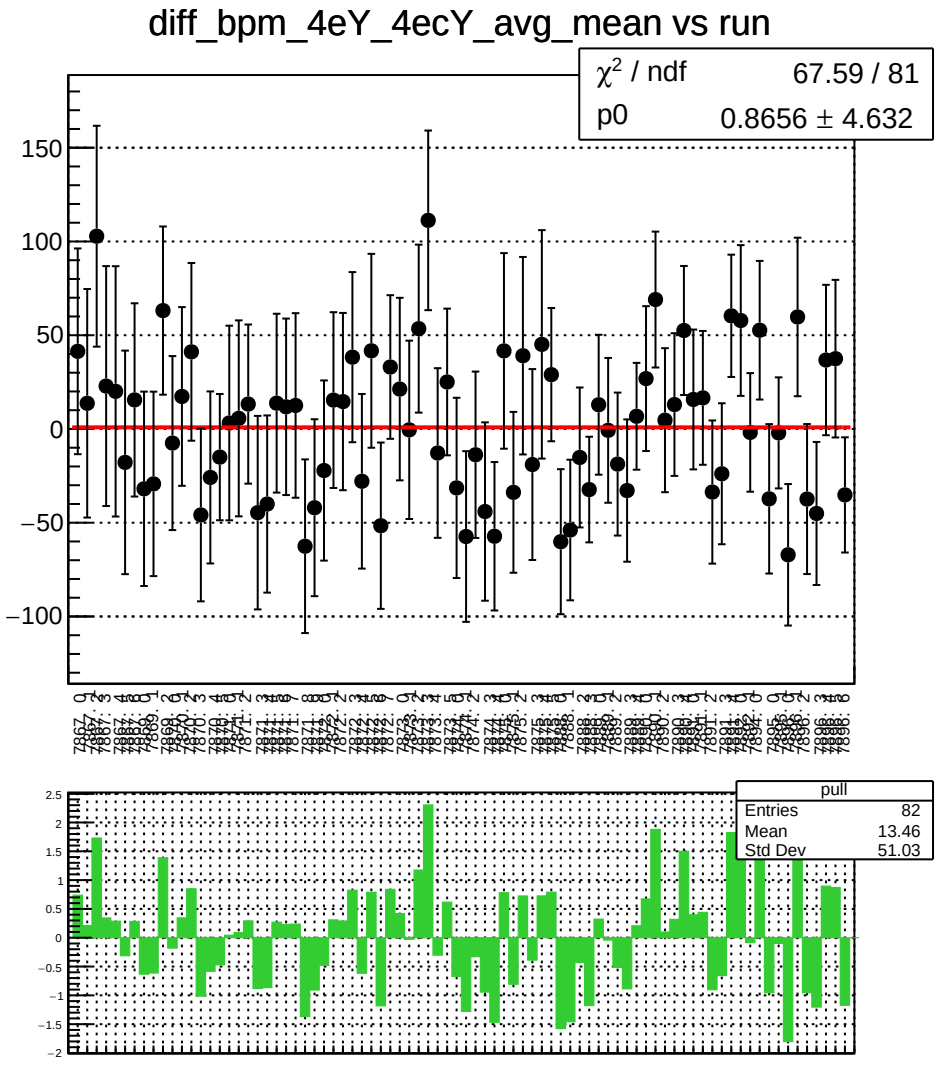

pull1D
Entries 82
Mean 0.01501
Std Dev 0.8882

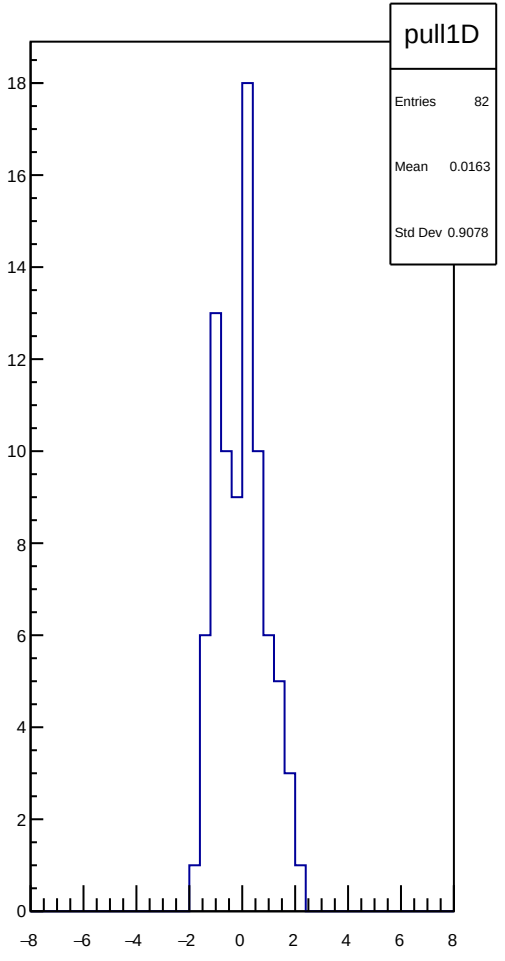

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3.312e+04 / 81
p0 4445 ± 3.515
7500
7000
6500
6000
5500
5000
4500
4000
3500

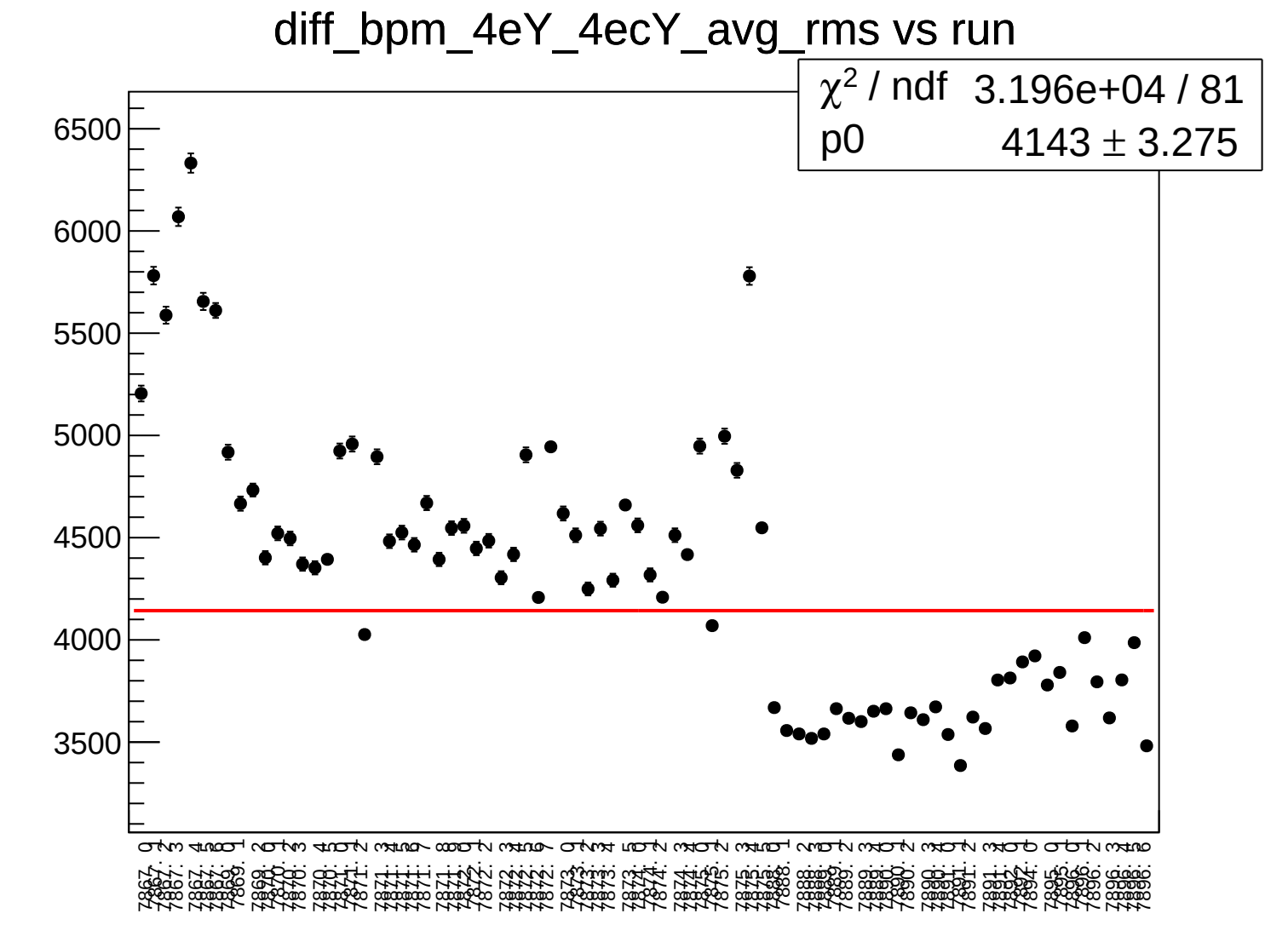

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 68.04 / 81
p0 0.7041± 0.9687
pull
Entries 82
Mean 34
Std Dev 22.98

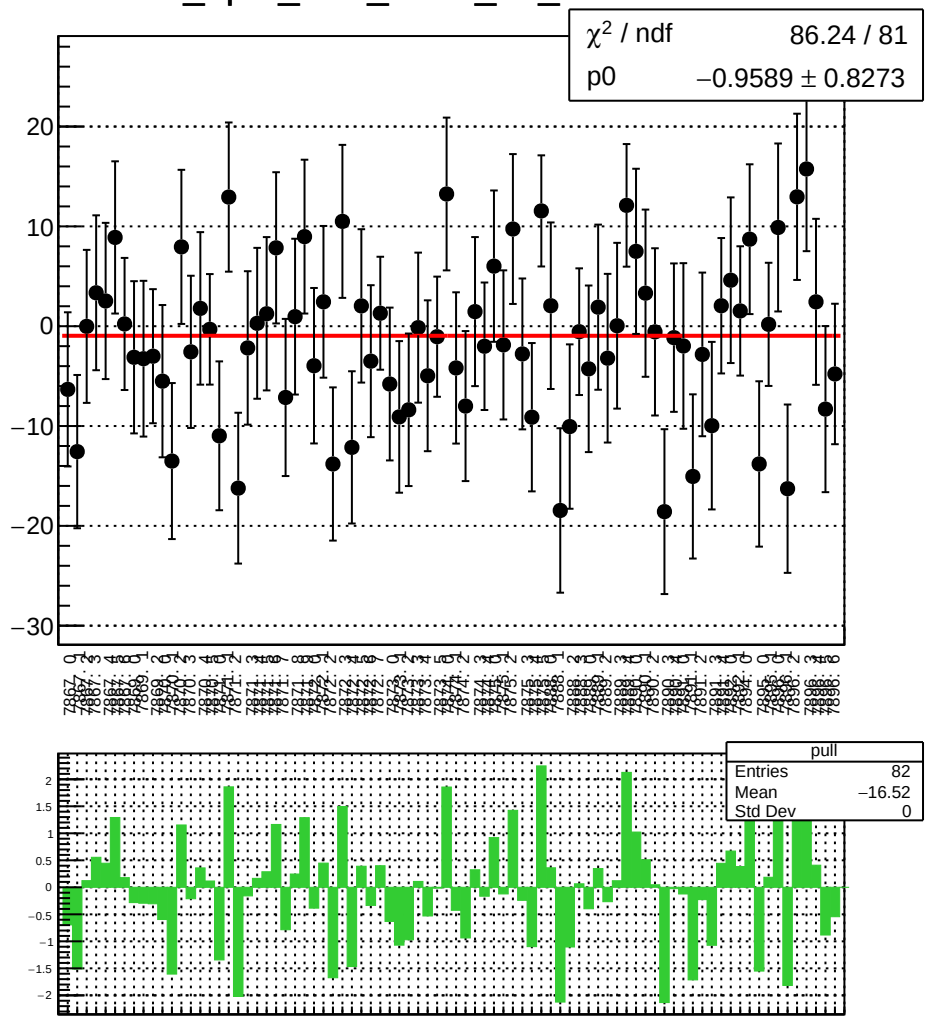

pull1D
Entries 82
Mean −0.02544
Std Dev 0.9105

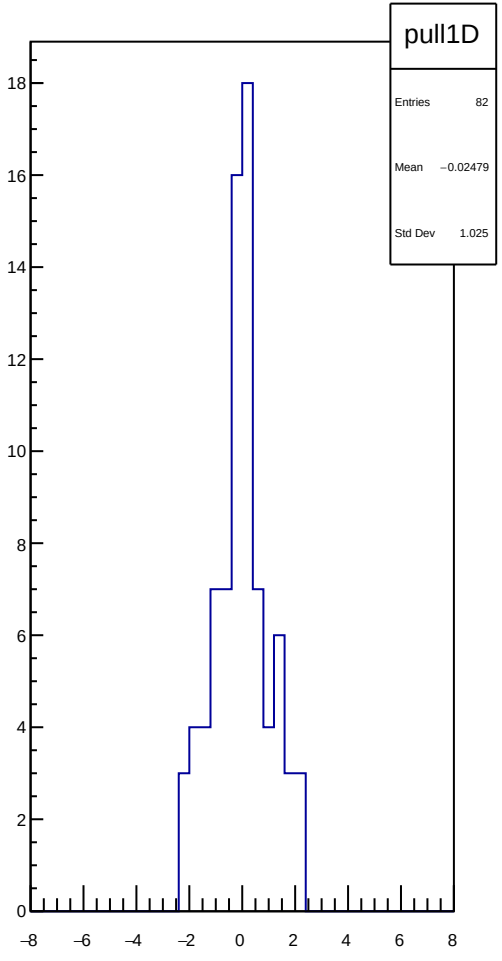

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 7077 / 81
p0 873.2 ± 0.685
1800
1600
1400
1200
1000
800

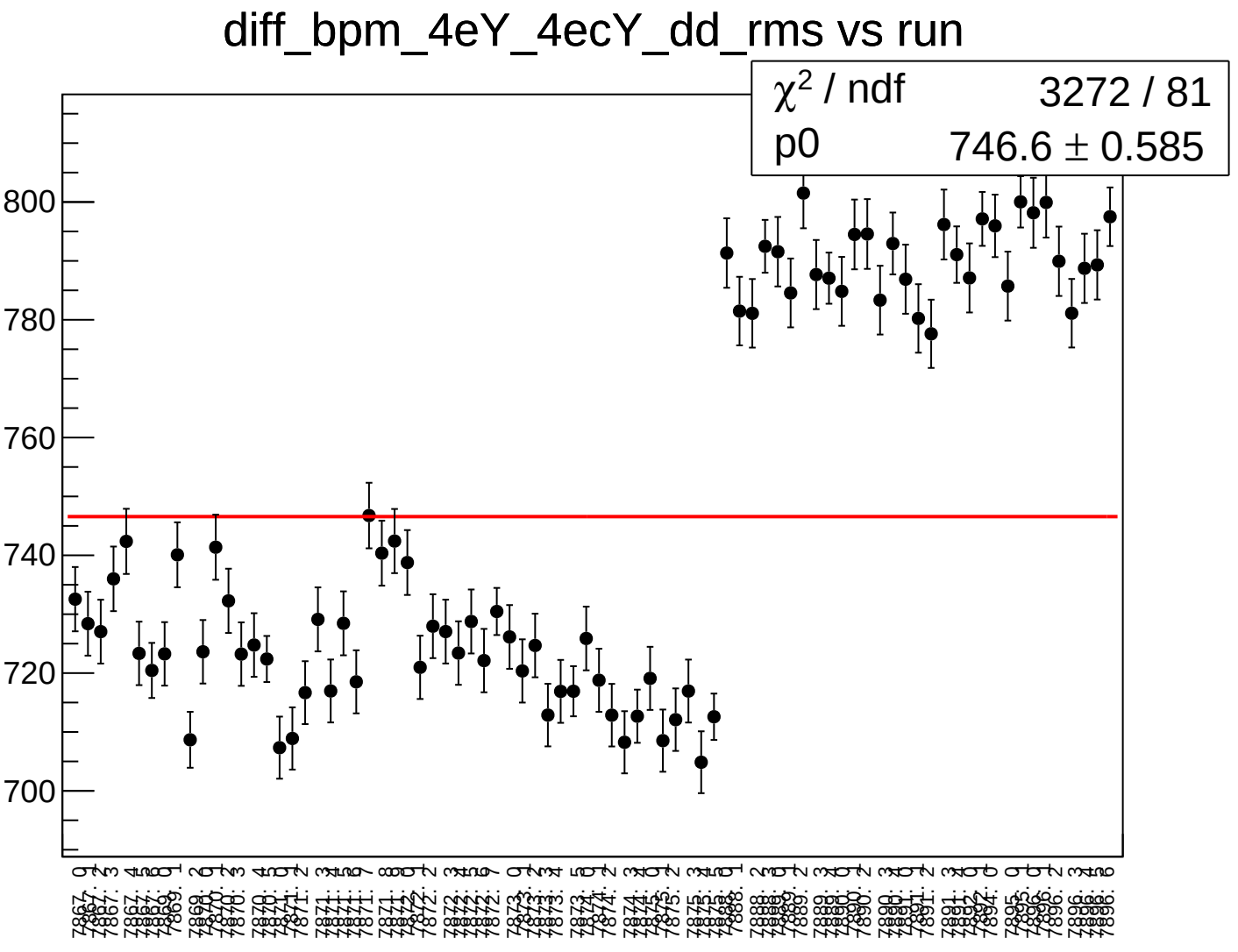

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 67.59 / 81
p0 0.8656 ± 4.632
150
100
50
0
−50
−100
pull
Entries 82
Mean 13.46
Std Dev 51.03
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

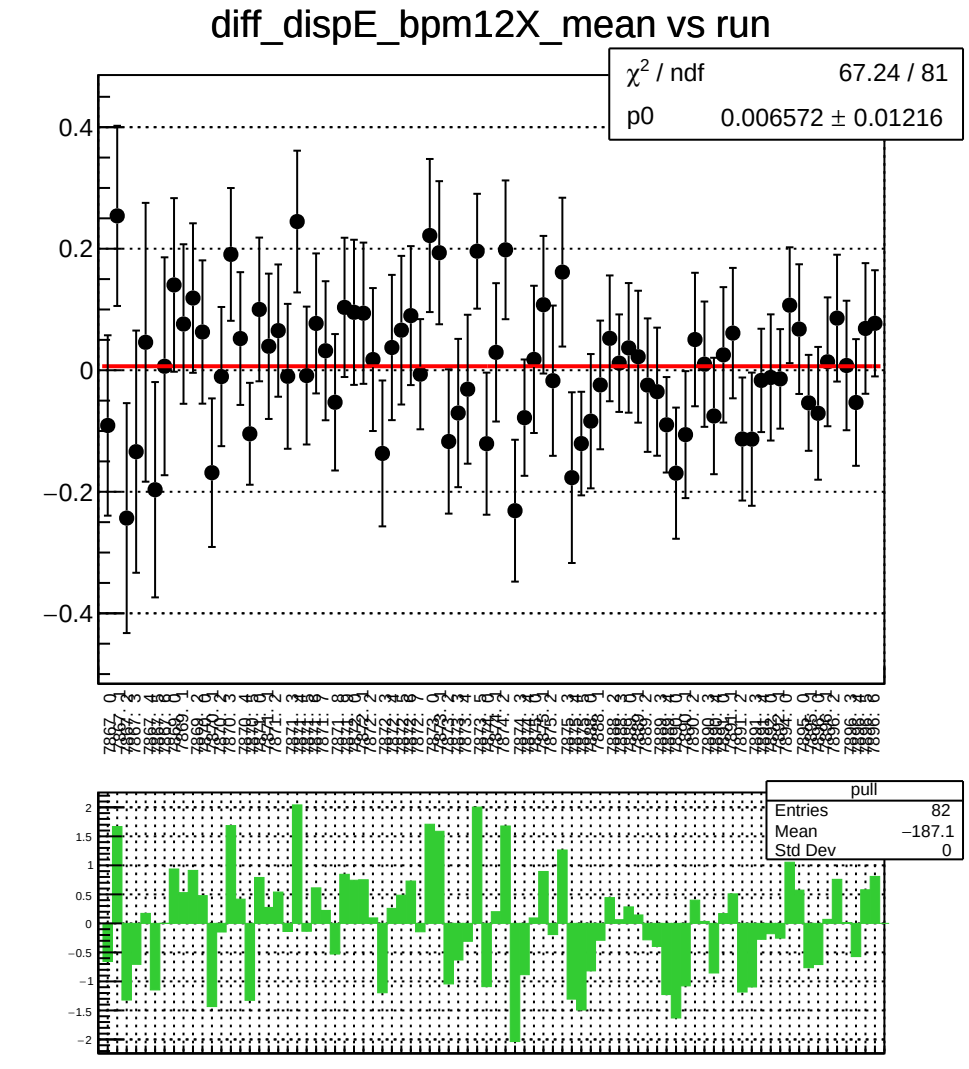

pull1D
Entries 82
Mean 0.0163
Std Dev 0.9078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

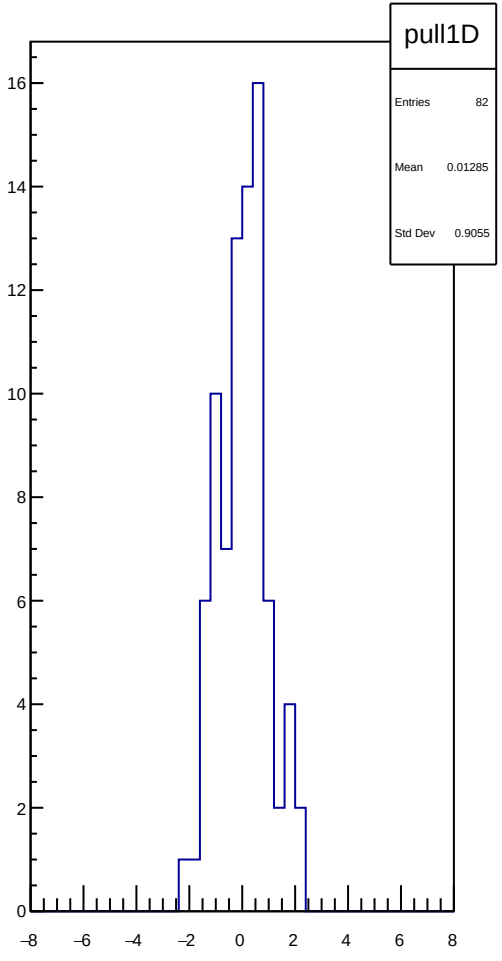

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.196e+04 / 81
p0 4143 ± 3.275
6500
6000
5500
5000
4500
4000
3500

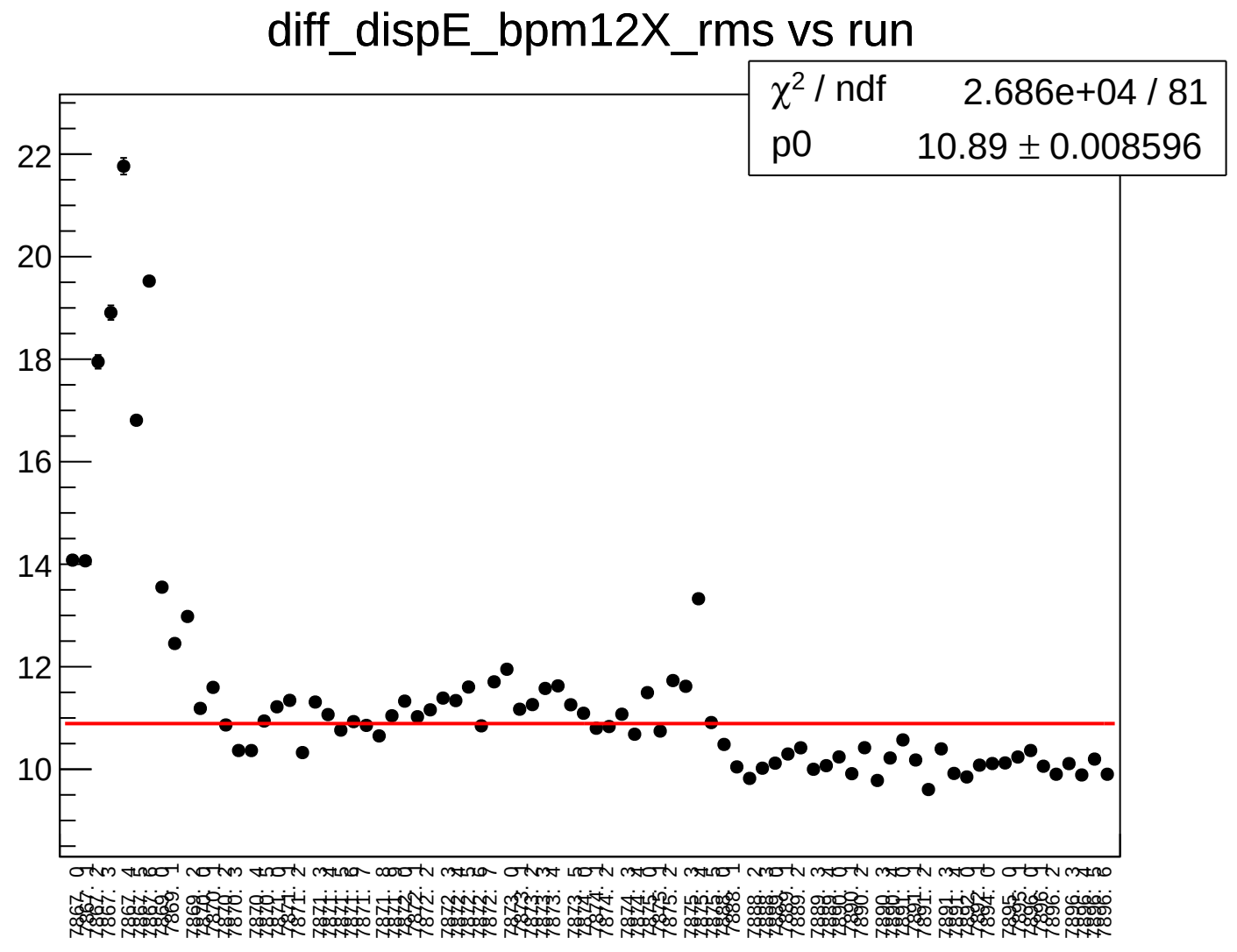

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 86.24 / 81
p0 −0.9589 ± 0.8273
pull
Entries 82
Mean −16.52
Std Dev 0

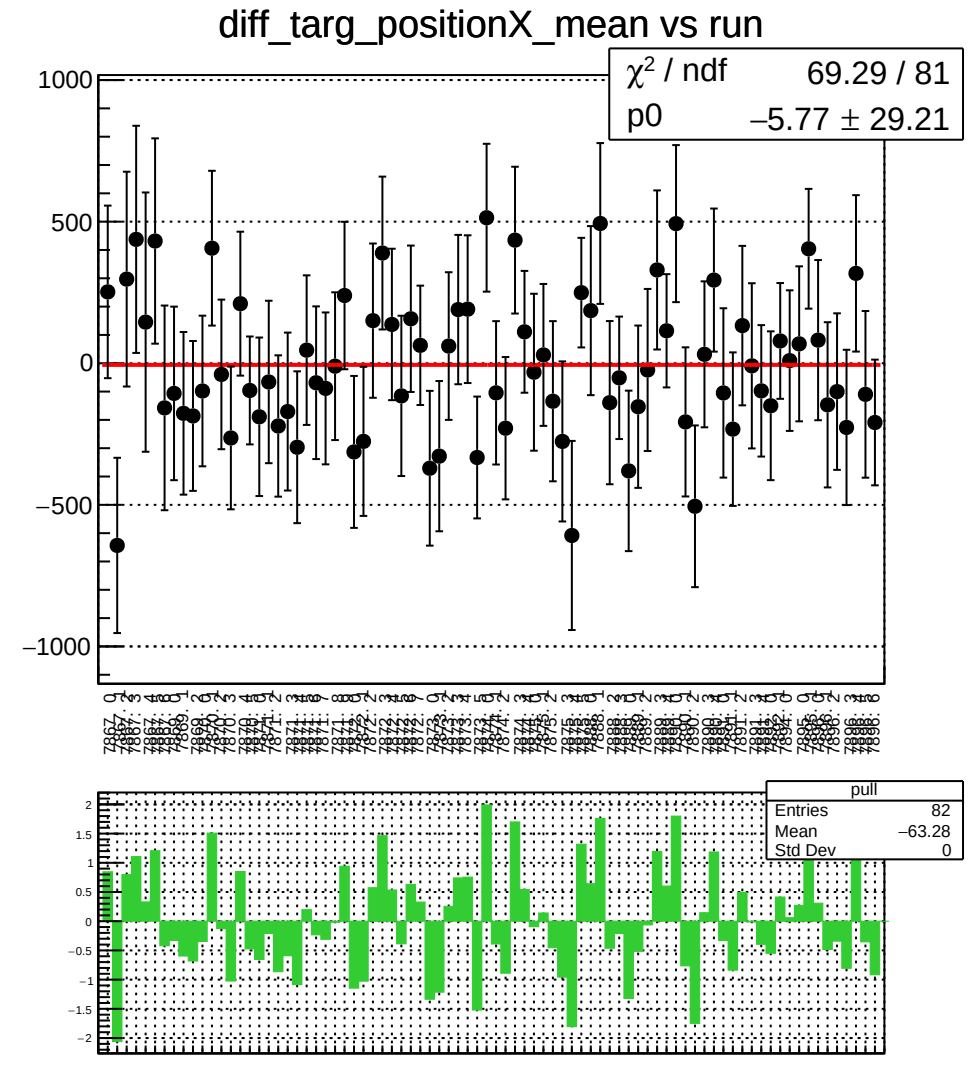

pull1D
Entries 82
Mean −0.02479
Std Dev 1.025

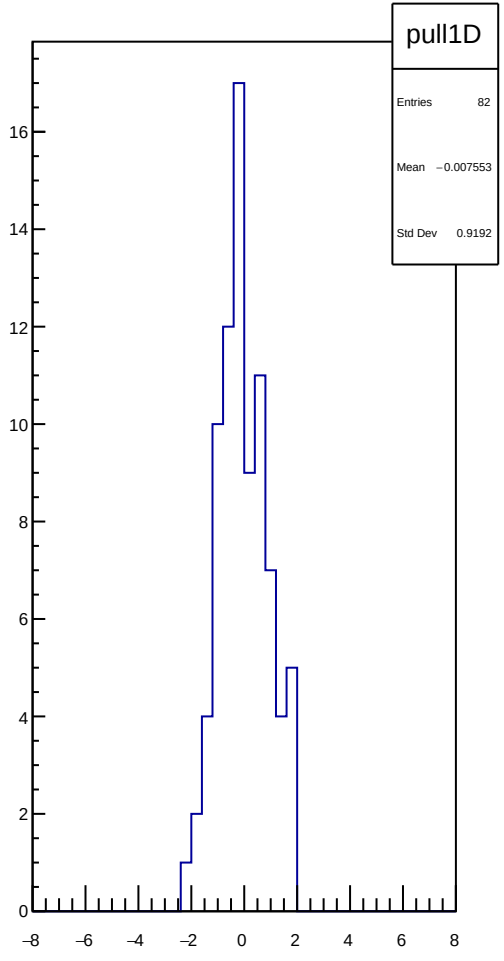

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 3272 / 81
p0 746.6 ± 0.585
800
780
760
740
720
700

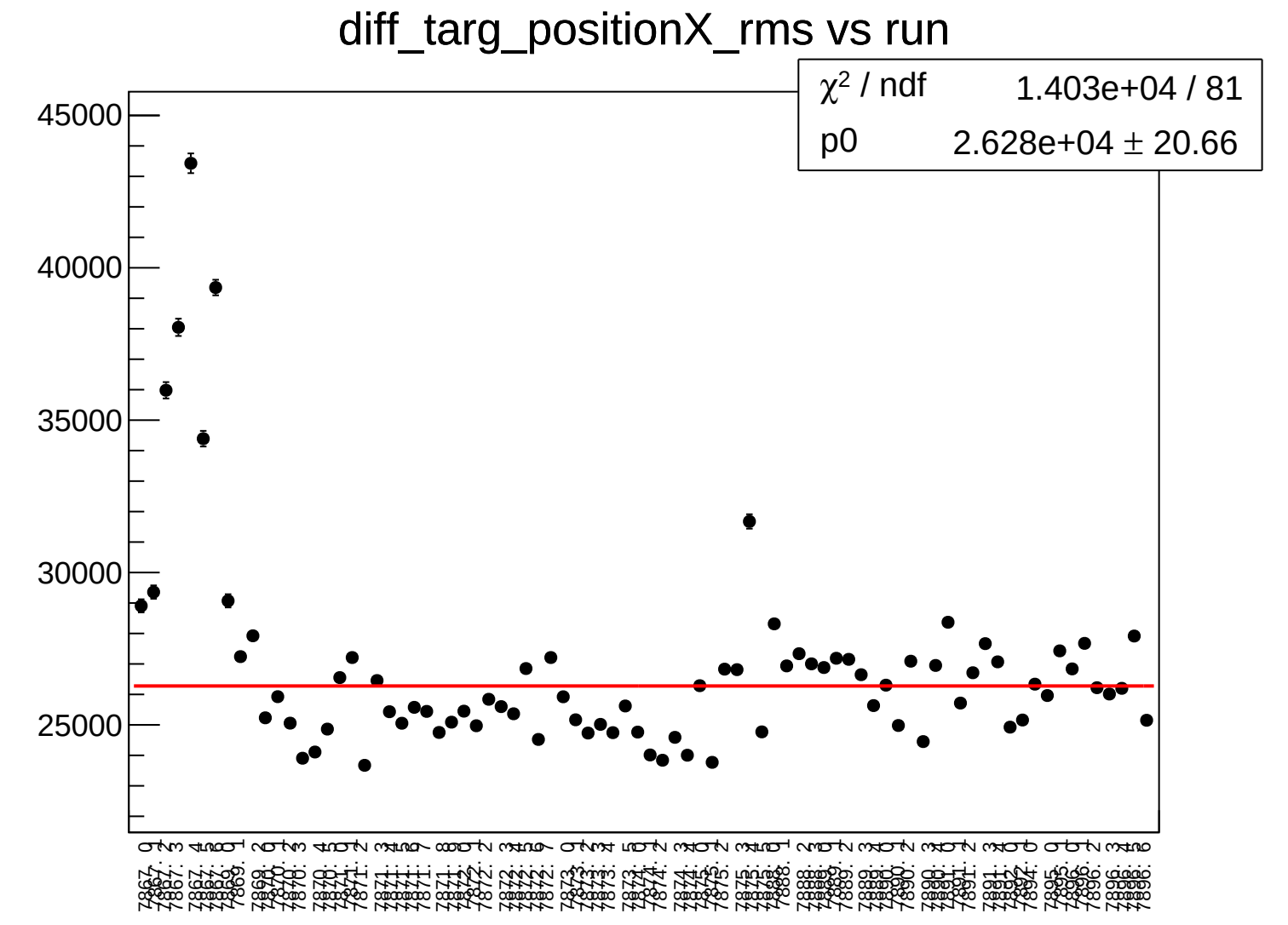

diff_dispE_bpm12X_mean vs run
χ² / ndf 67.24 / 81
p0 0.006572 ± 0.01216
pull
Entries 82
Mean −187.1
Std Dev 0

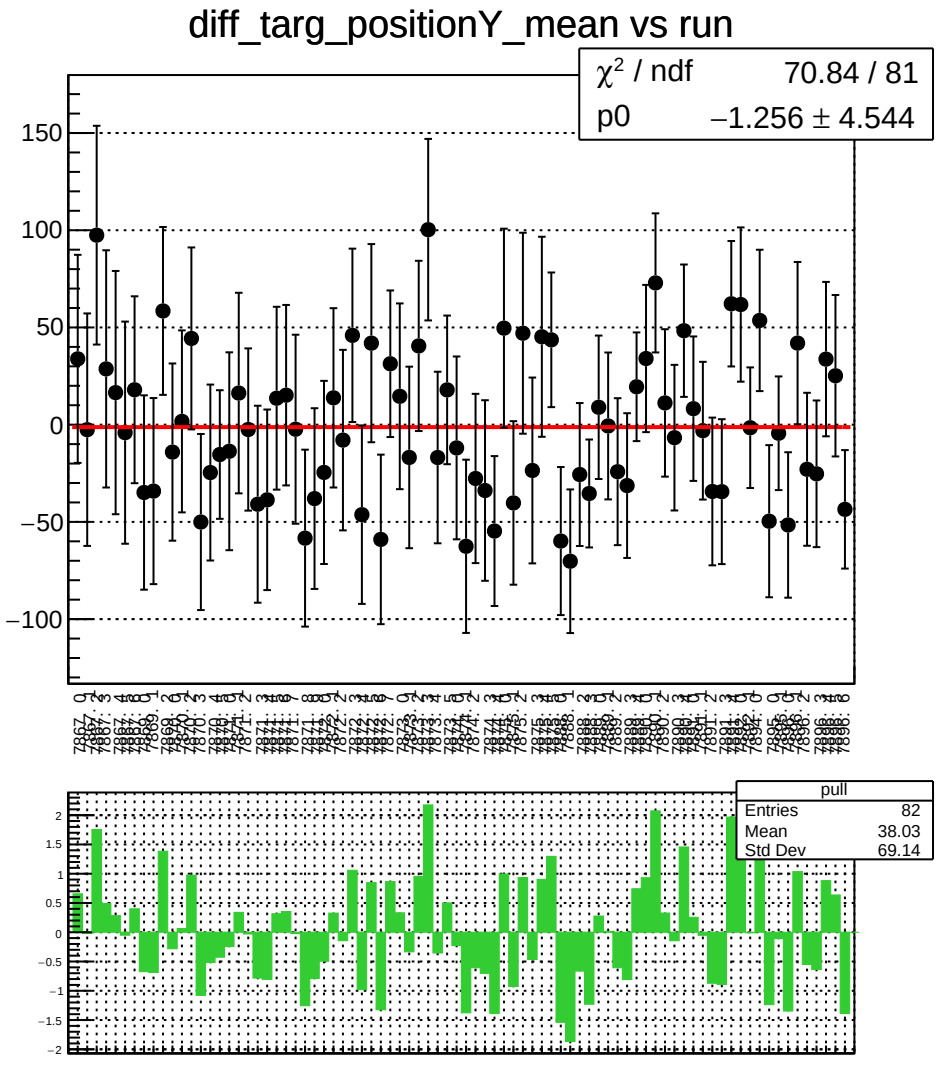

pull1D
Entries 82
Mean 0.01285
Std Dev 0.9055

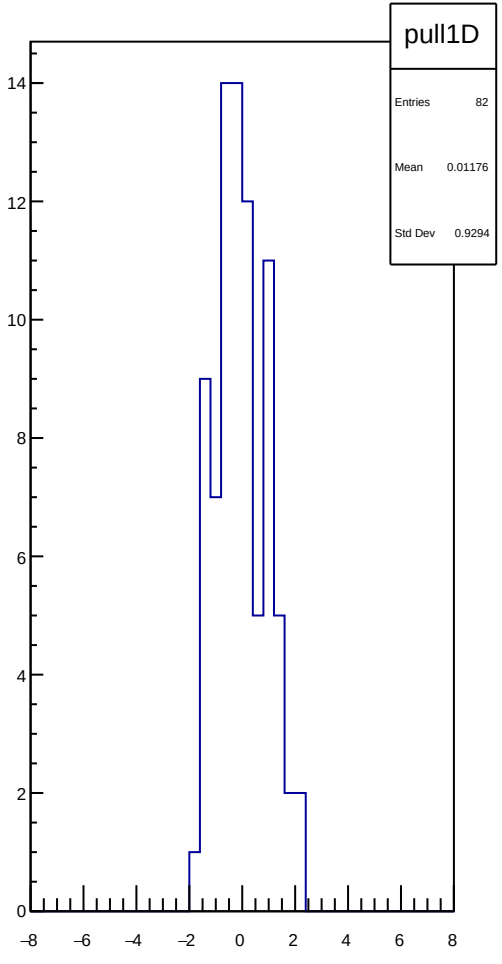

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 2.686e+04 / 81
p0 10.89 ± 0.008596
22
20
18
16
14
12
10

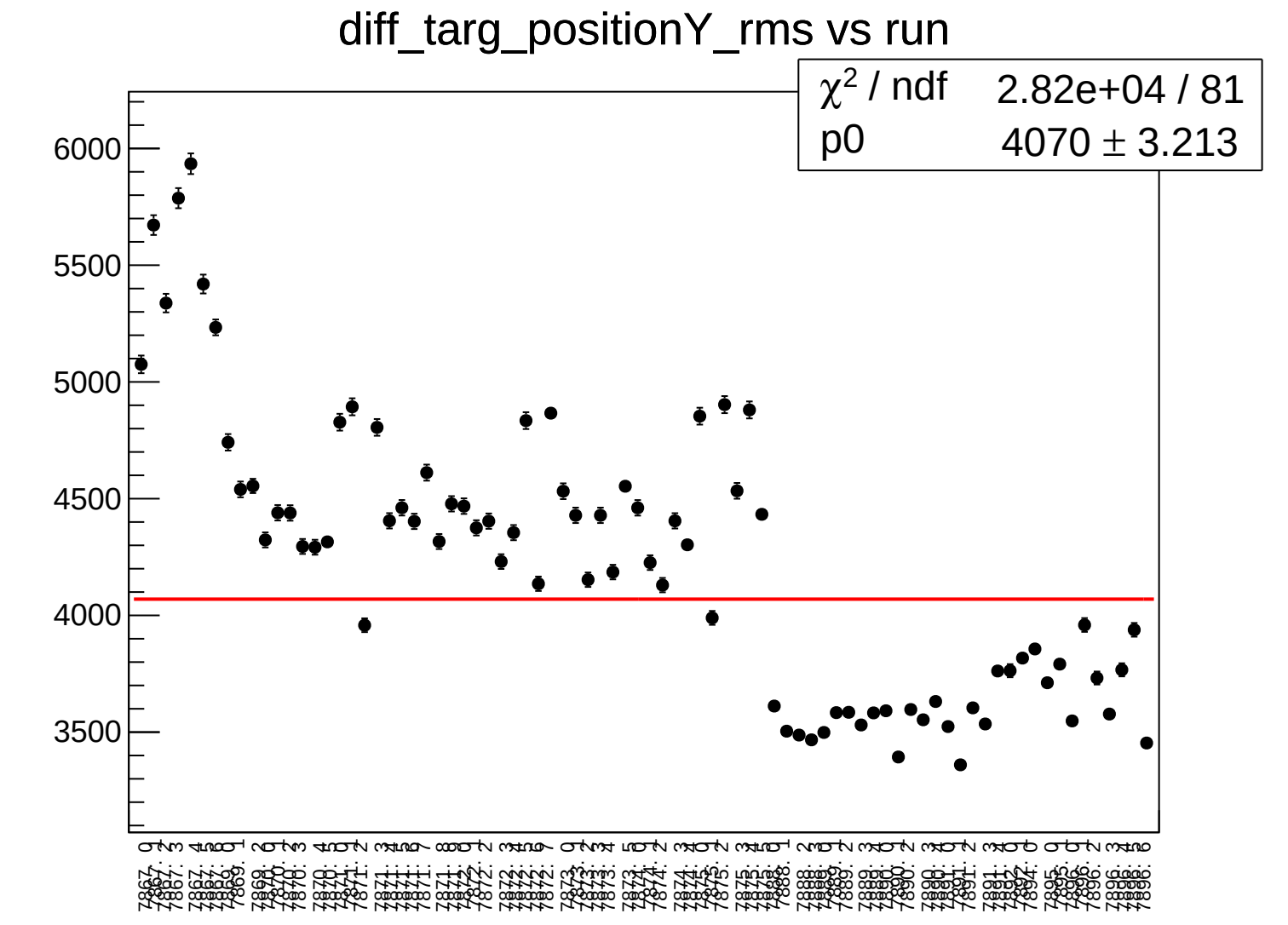

diff_targ_positionX_mean vs run
χ² / ndf 69.29 / 81
p0 −5.77 ± 29.21
1000
500
0
−500
−1000
pull
Entries 82
Mean −63.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

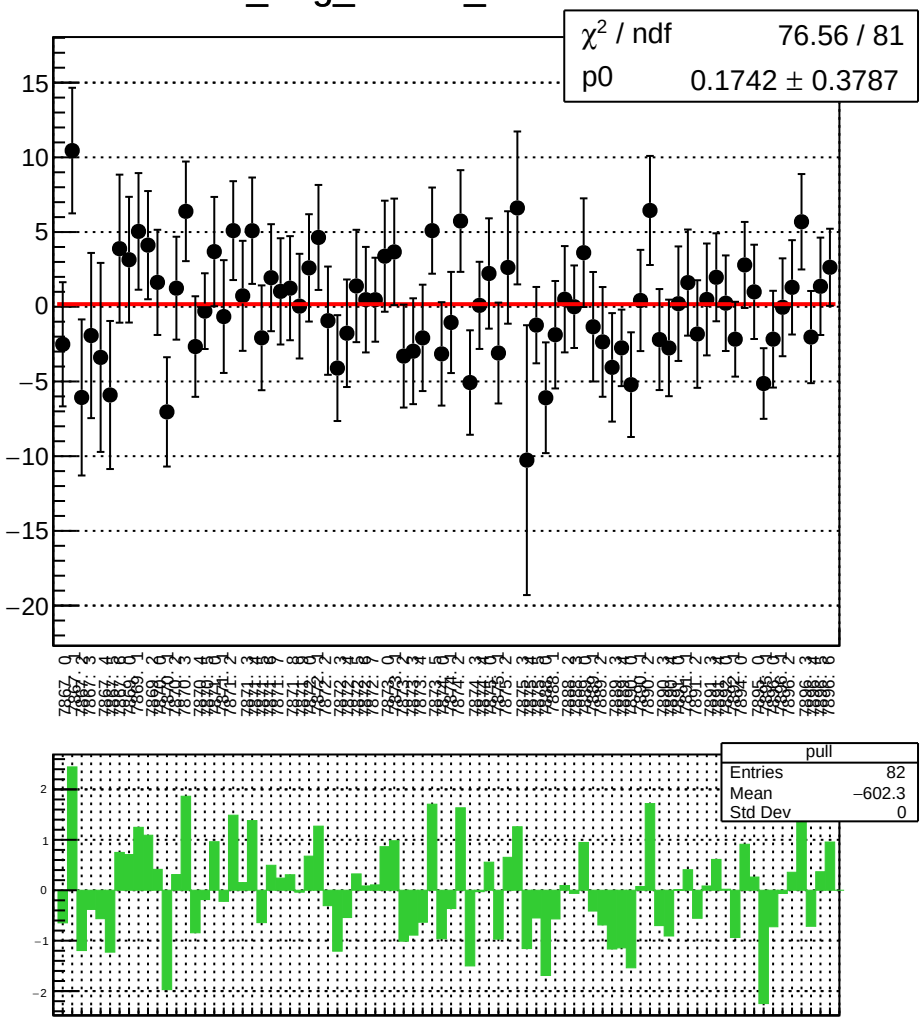

pull1D
Entries 82
Mean −0.007553
Std Dev 0.9192
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

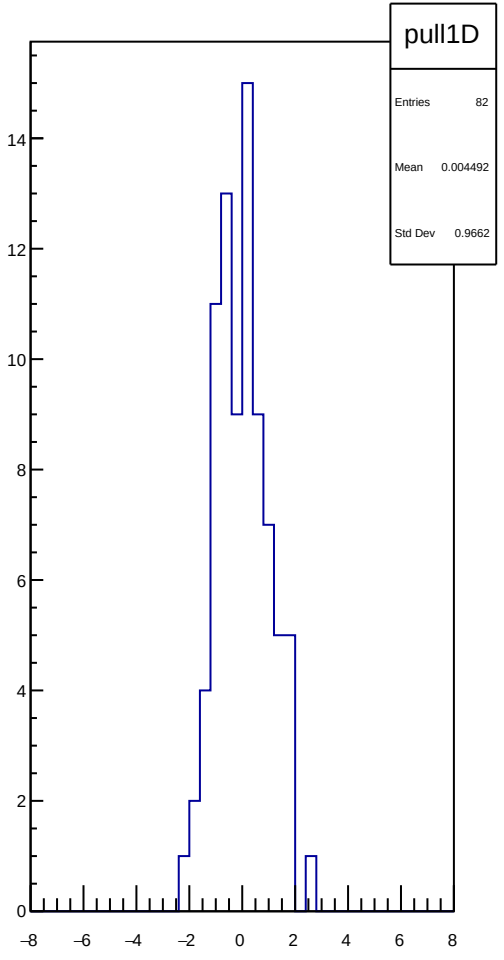

diff_targ_positionX_rms vs run
χ² / ndf 1.403e+04 / 81
p0 2.628e+04 ± 20.66
45000
40000
35000
30000
25000

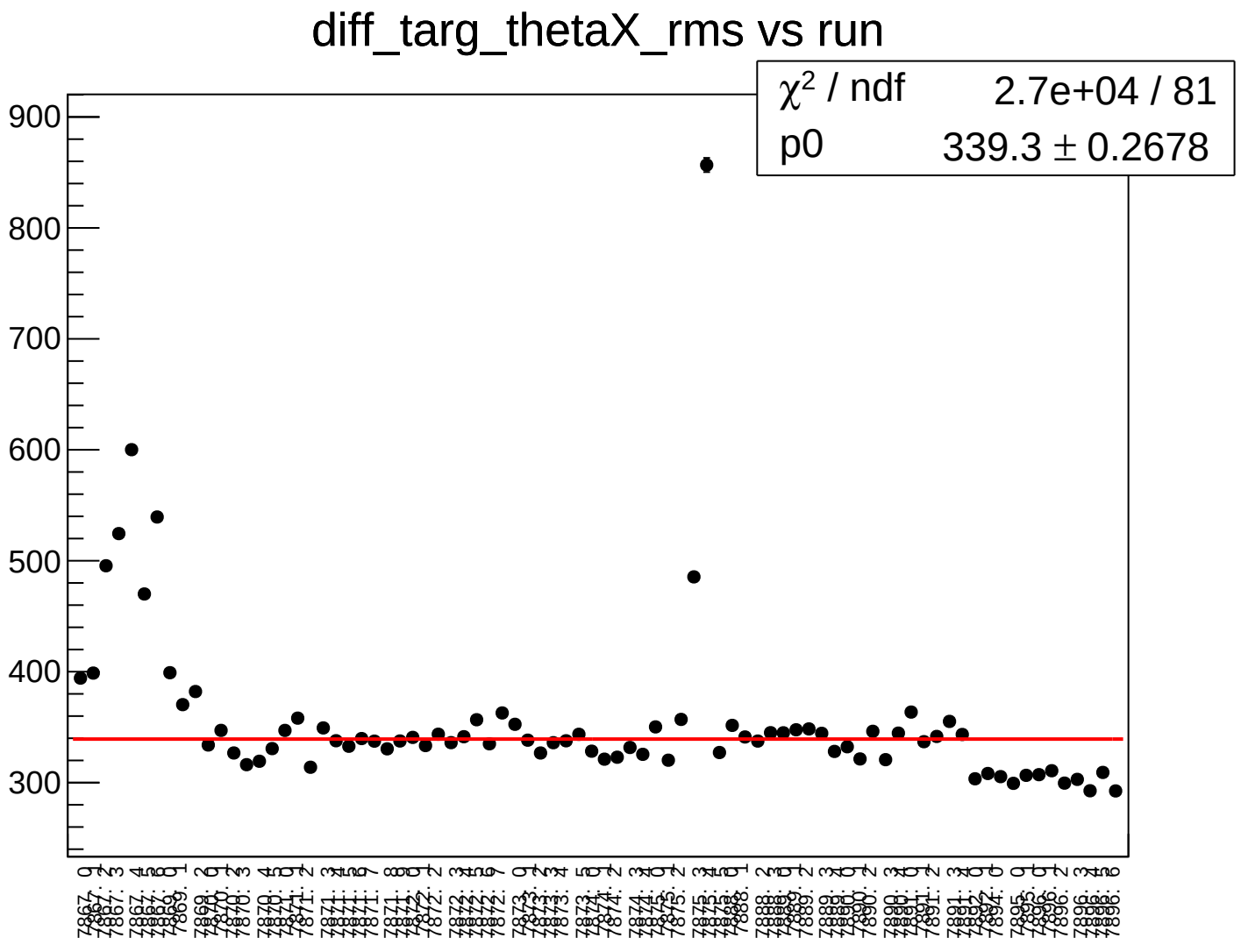

diff_targ_positionY_mean vs run
χ² / ndf 70.84 / 81
p0 −1.256 ± 4.544
150
100
50
0
−50
−100
pull
Entries 82
Mean 38.03
Std Dev 69.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

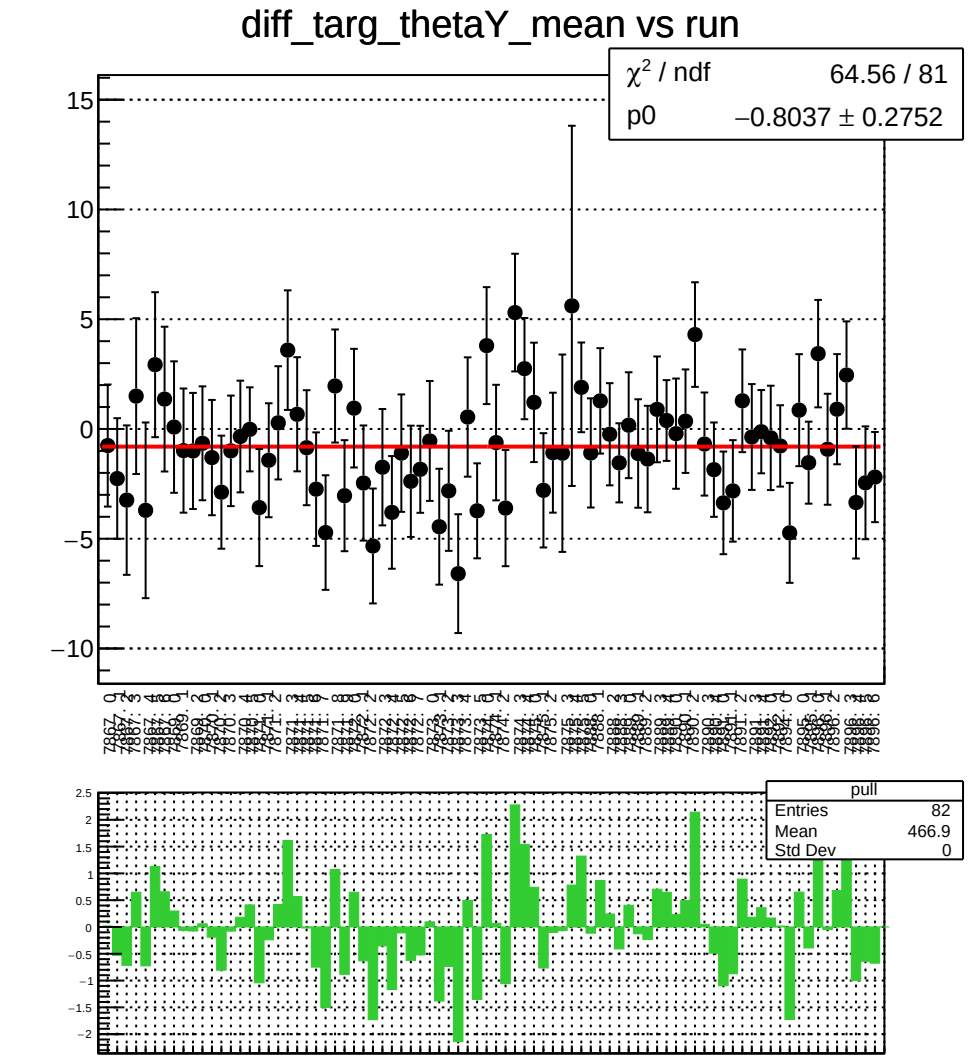

pull1D
Entries 82
Mean 0.01176
Std Dev 0.9294
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

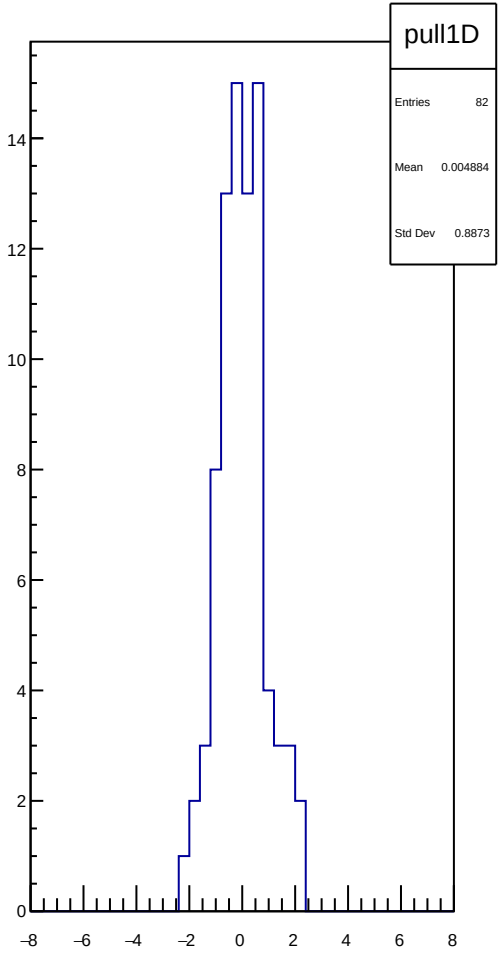

diff_targ_positionY_rms vs run
χ² / ndf 2.82e+04 / 81
p0 4070 ± 3.213
6000
5500
5000
4500
4000
3500

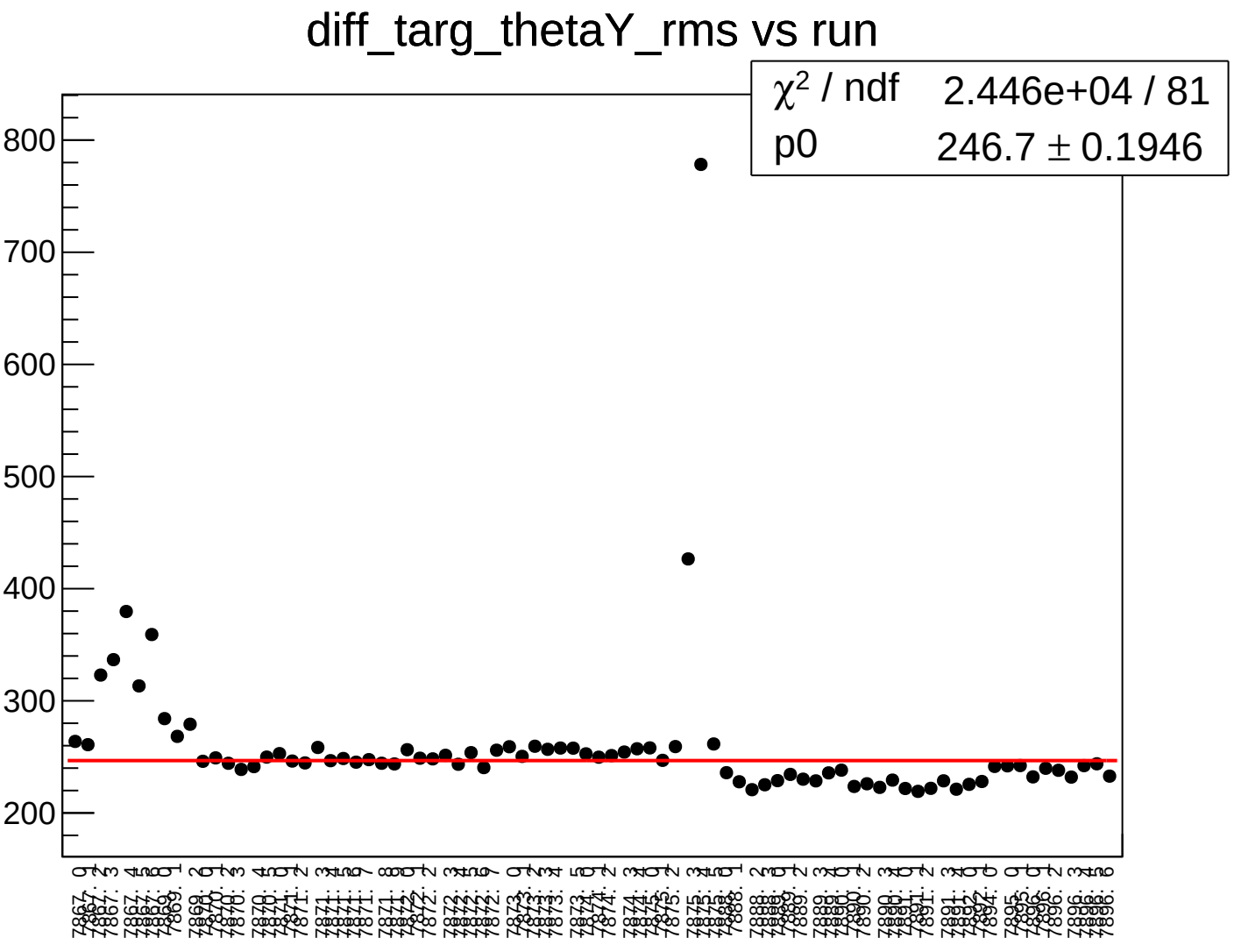

diff_targ_thetaX_mean vs run
χ² / ndf 76.56 / 81
p0 0.1742 ± 0.3787
pull
Entries 82
Mean −602.3
Std Dev 0

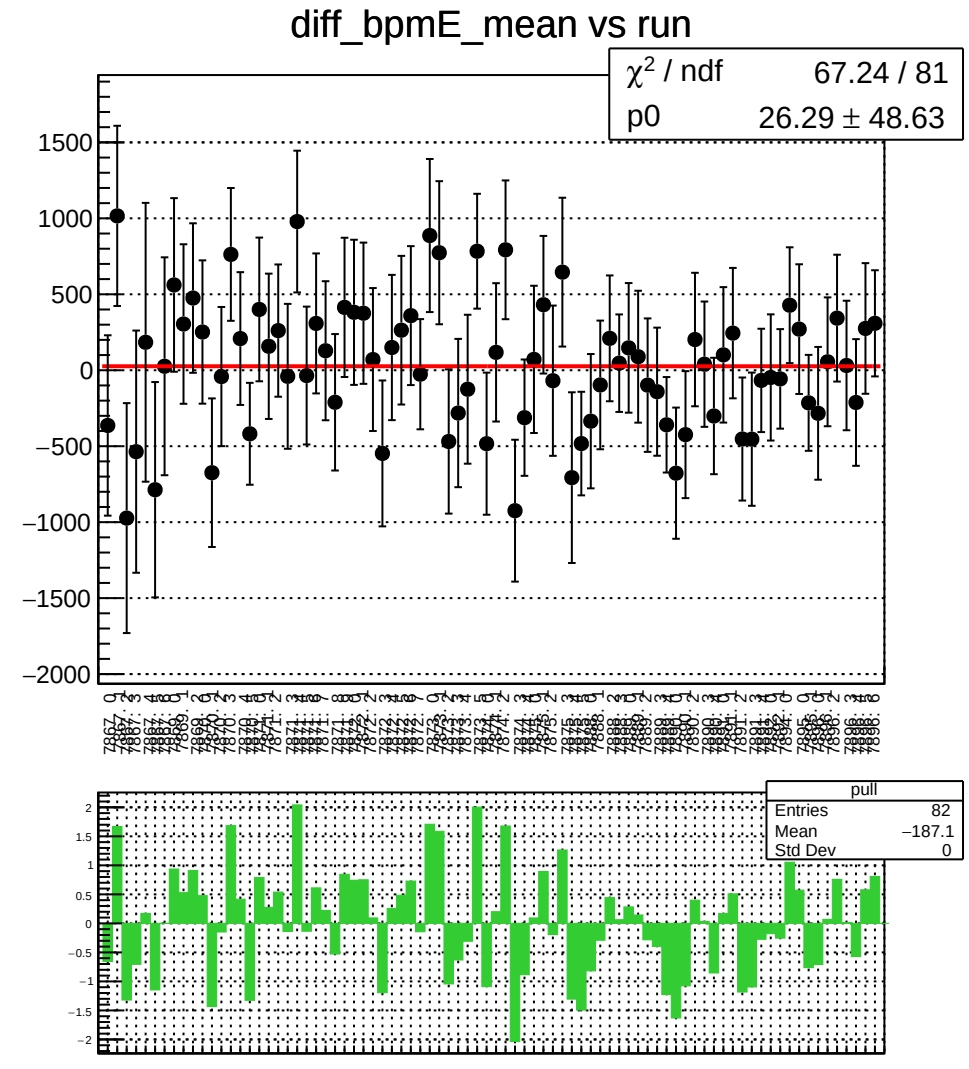

pull1D
Entries 82
Mean 0.004492
Std Dev 0.9662

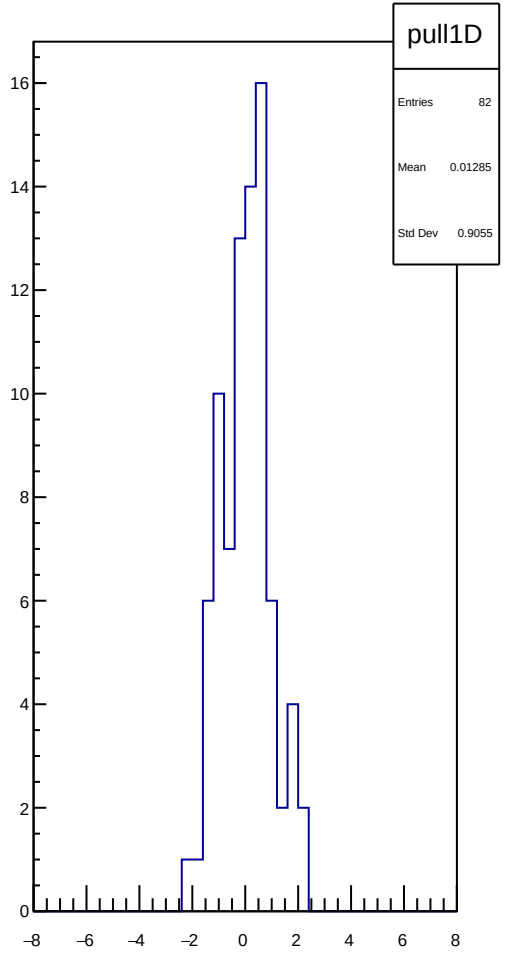

diff_targ_thetaX_rms vs run
χ^2 / ndf 2.7e+04 / 81
p0 339.3 ± 0.2678
900
800
700
600
500
400
300

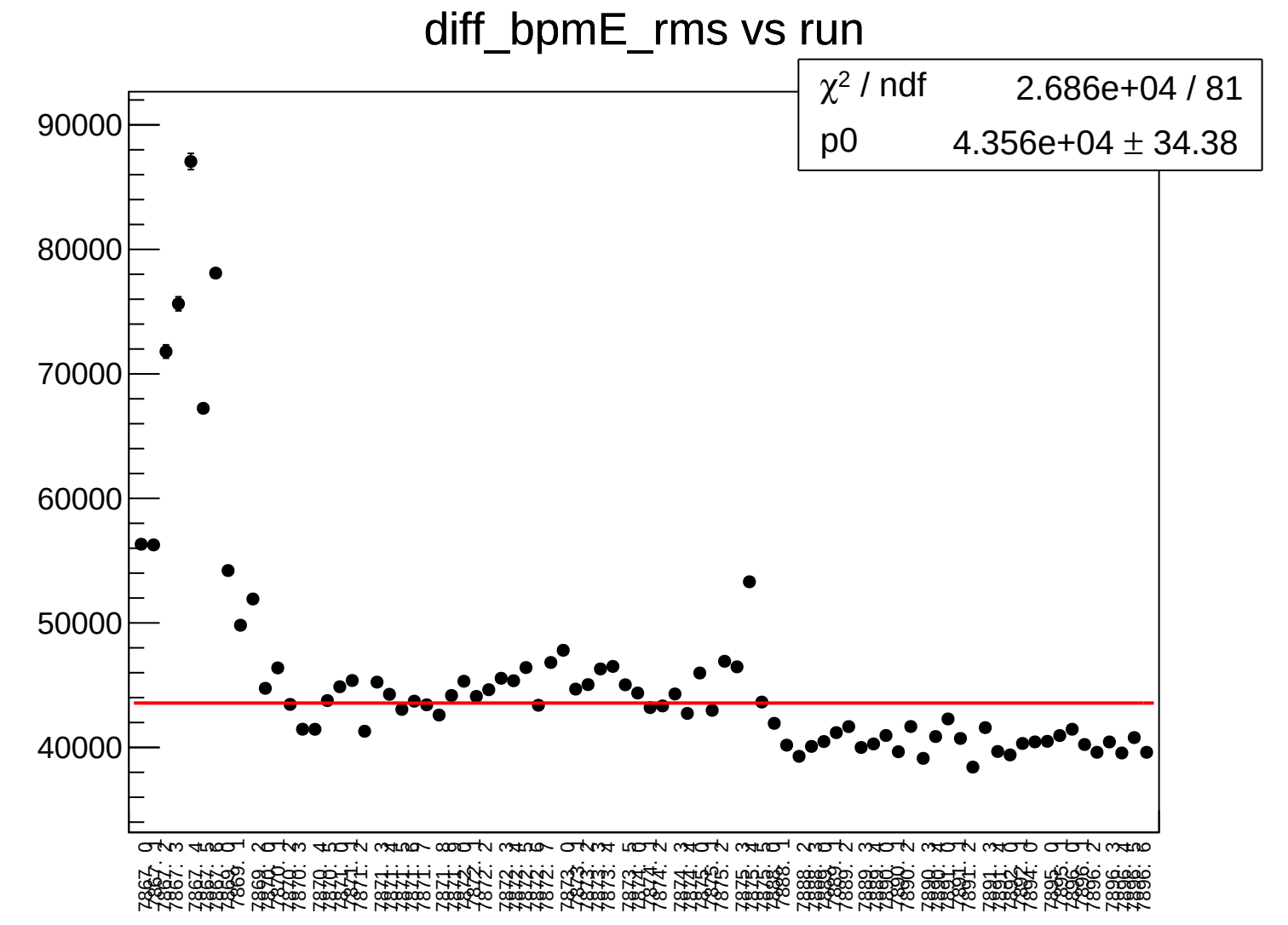

diff_targ_thetaY_mean vs run
χ² / ndf 64.56 / 81
p0 −0.8037 ± 0.2752
pull
Entries 82
Mean 466.9
Std Dev 0

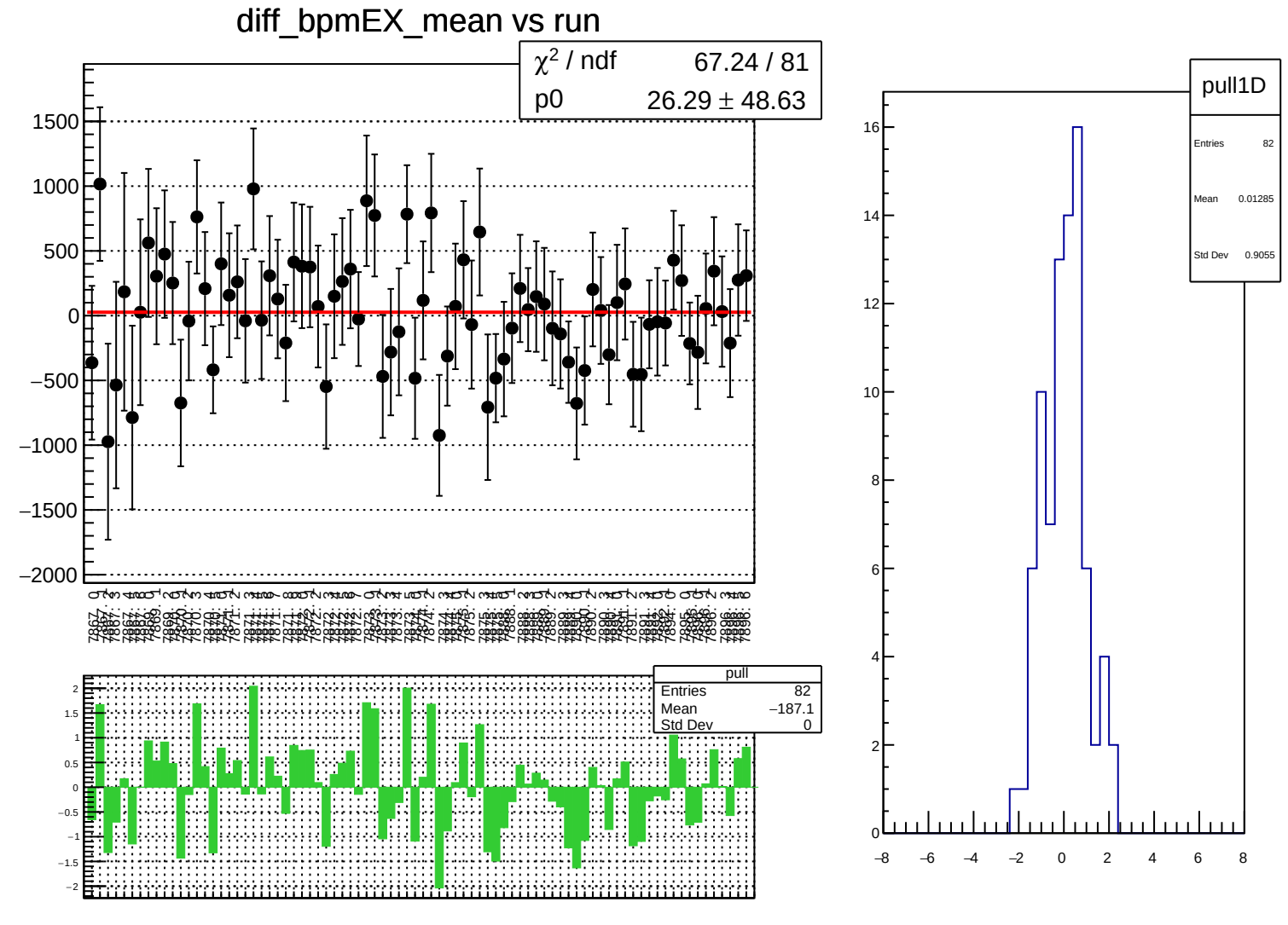

pull1D
Entries 82
Mean 0.004884
Std Dev 0.8873

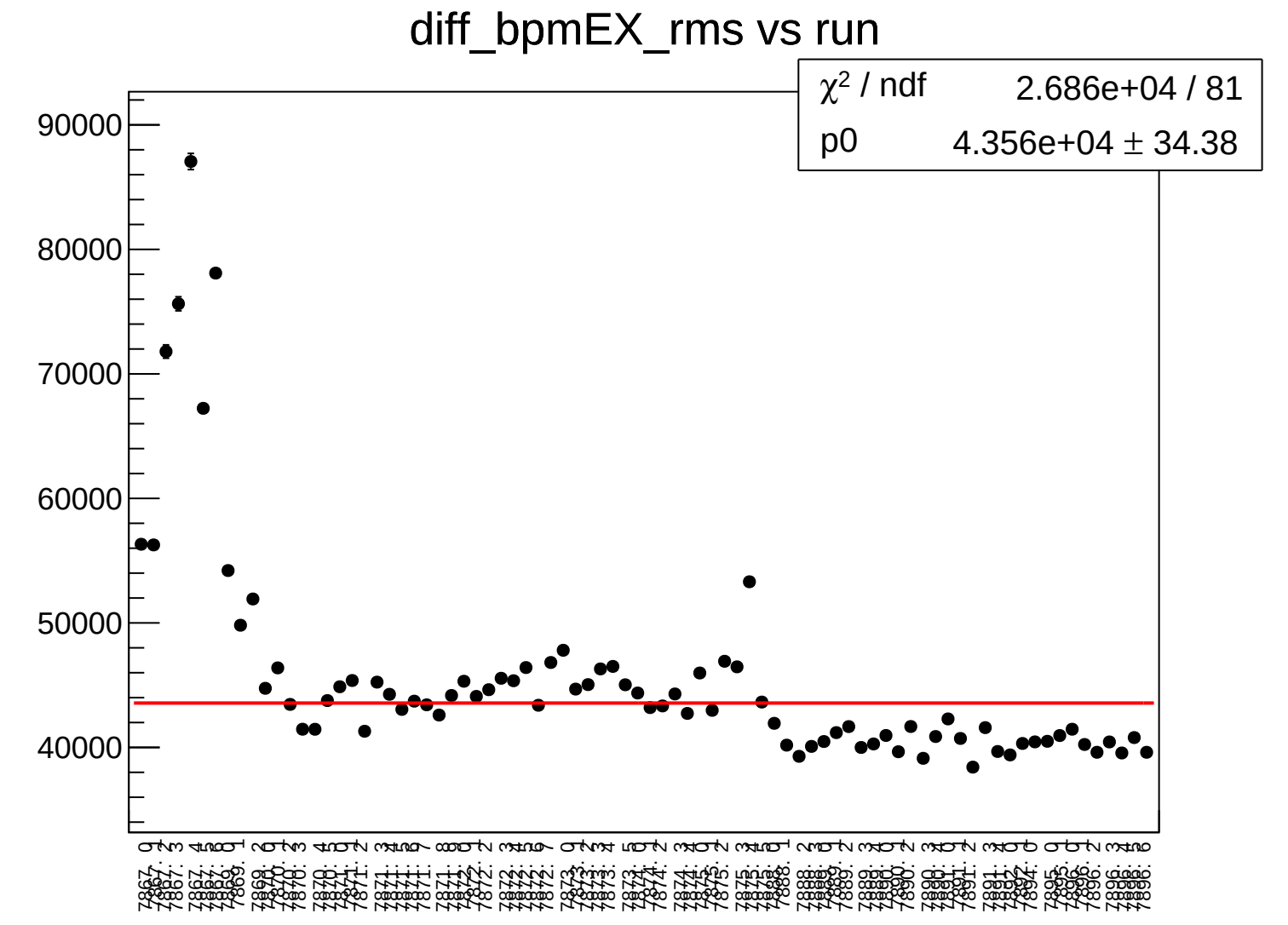

diff_targ_thetaY_rms vs run
χ² / ndf 2.446e+04 / 81
p0 246.7 ± 0.1946
800
700
600
500
400
300
200

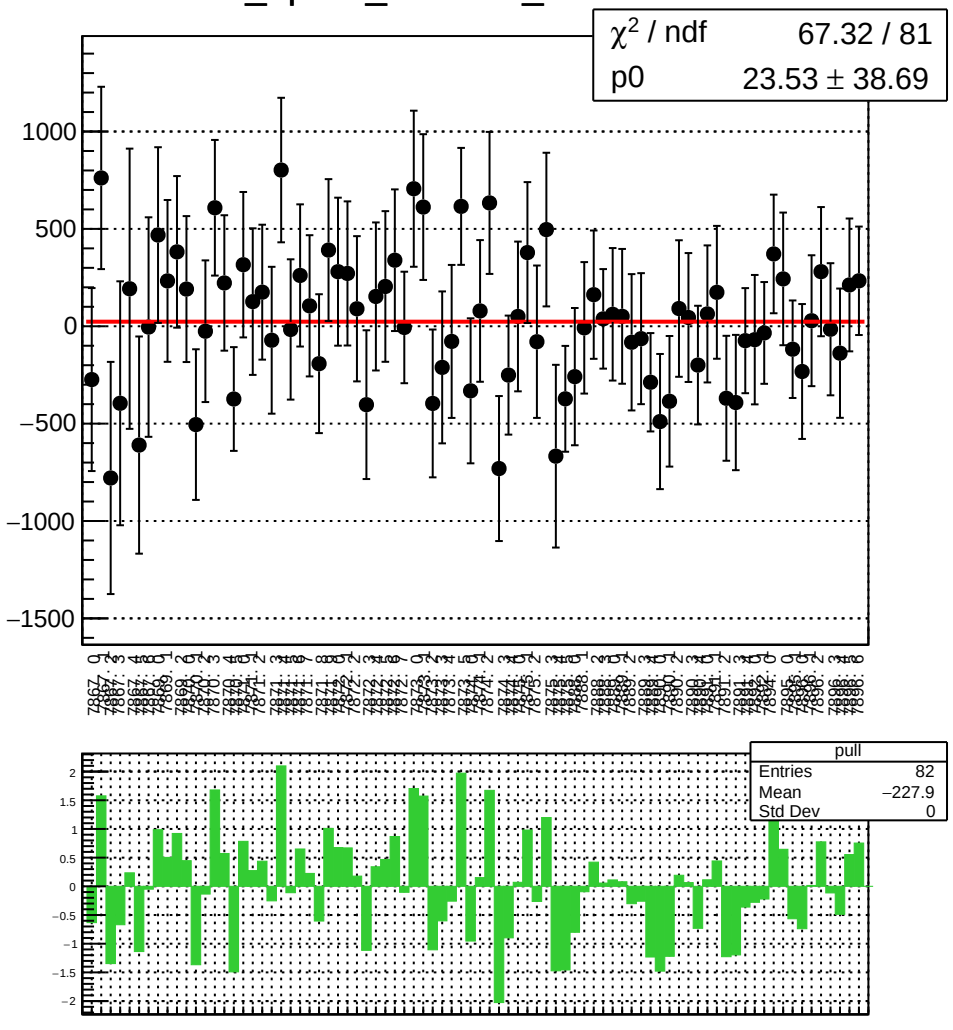

diff_bpmE_mean vs run
χ² / ndf 67.24 / 81
p0 26.29 ± 48.63
pull
Entries 82
Mean −187.1
Std Dev 0

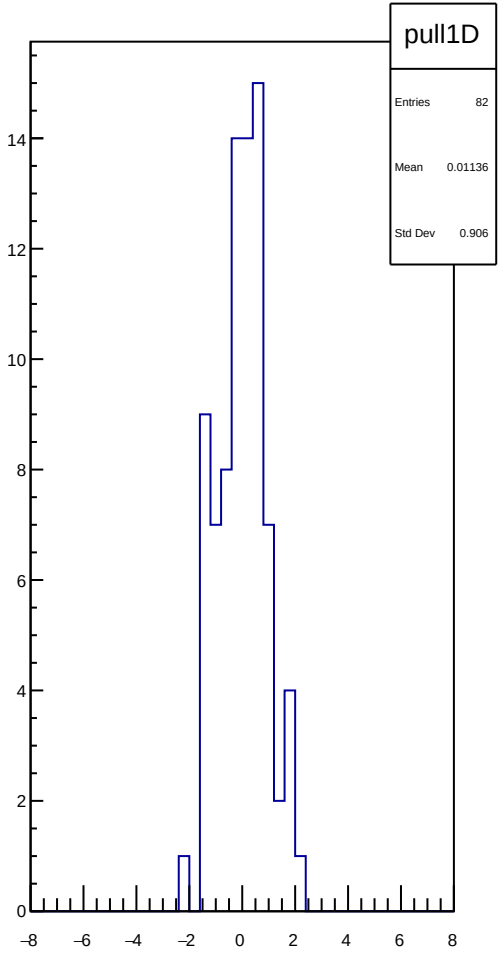

pull1D
Entries 82
Mean 0.01285
Std Dev 0.9055

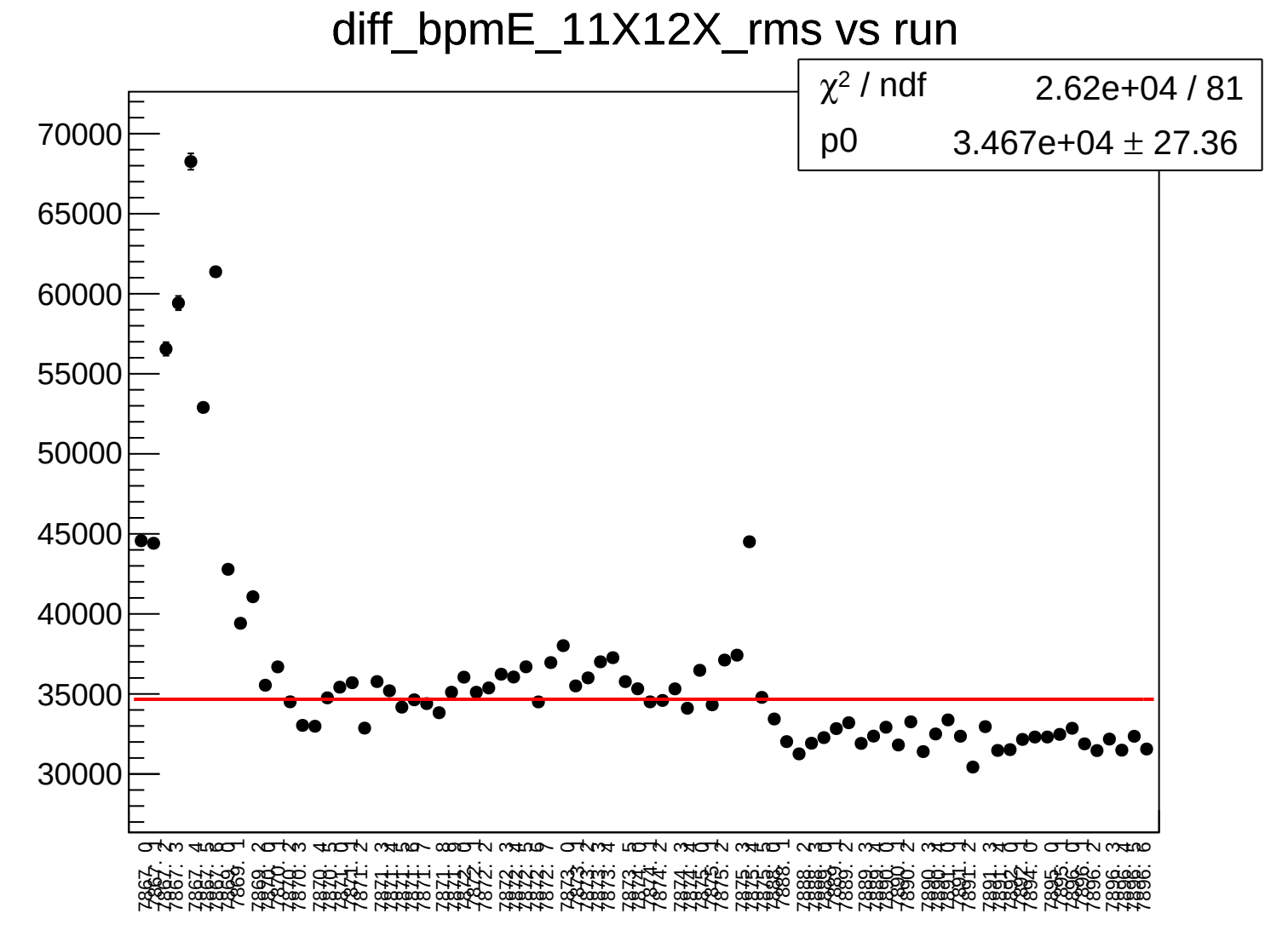

diff_bpmE_rms vs run
χ² / ndf 2.686e+04 / 81
p0 4.356e+04 ± 34.38
90000
80000
70000
60000
50000
40000

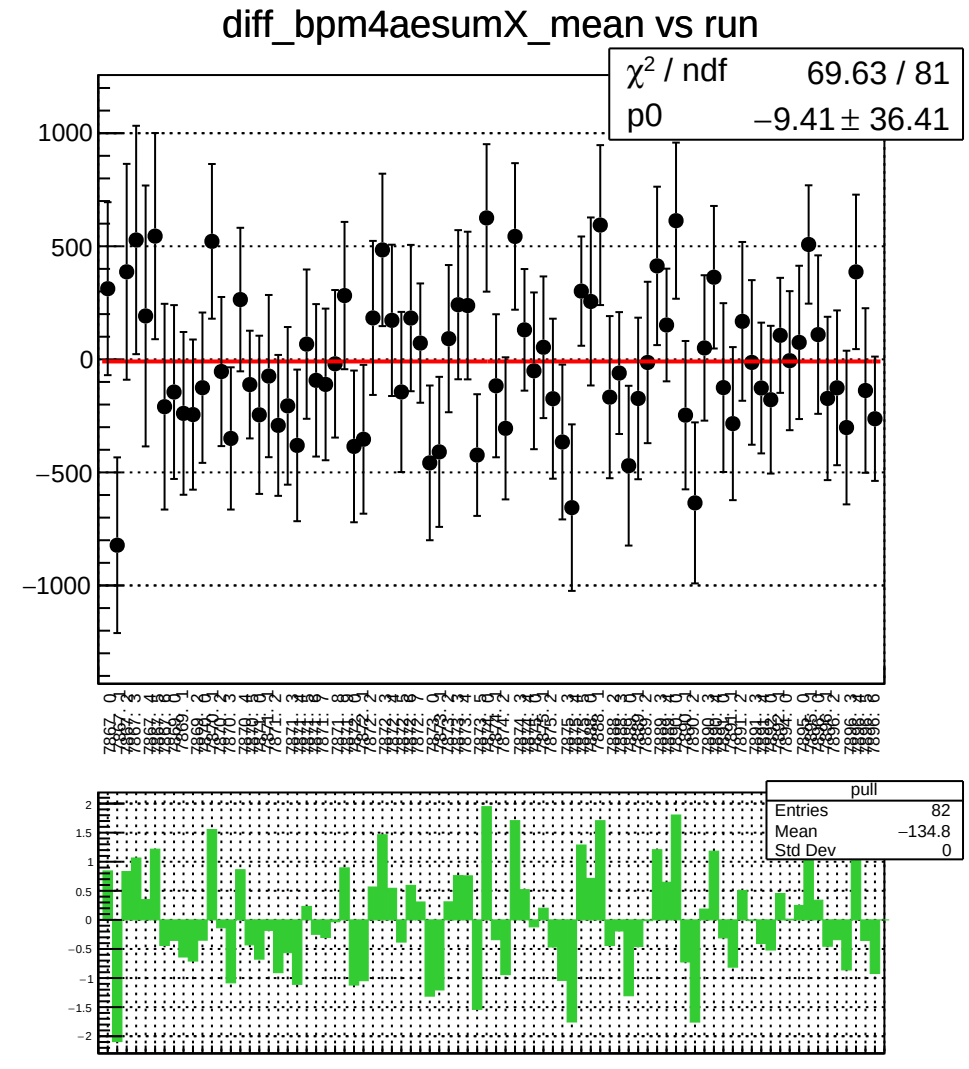

diff_bpmEX_mean vs run
χ² / ndf 67.24 / 81
p0 26.29 ± 48.63
pull
Entries 82
Mean −187.1
Std Dev 0
pull1D
Entries 82
Mean 0.01285
Std Dev 0.9055

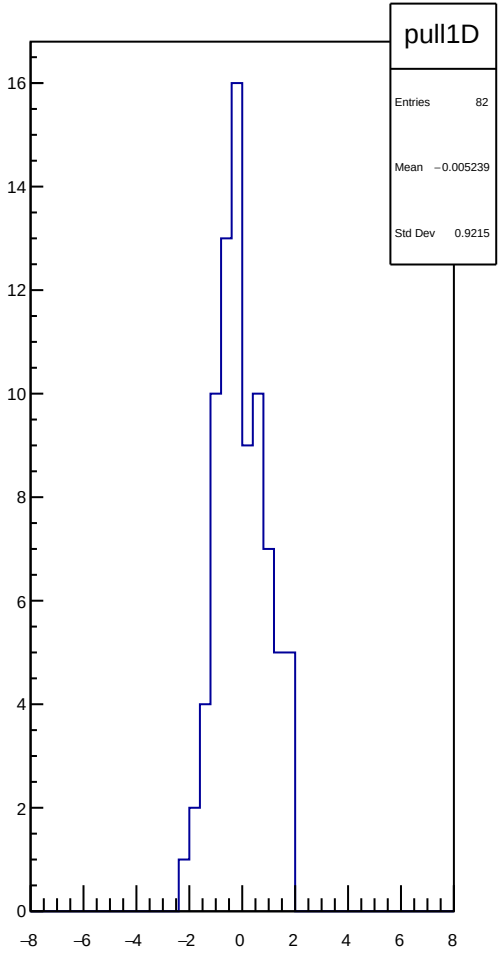

diff_bpmEX_rms vs run
χ² / ndf 2.686e+04 / 81
p0 4.356e+04 ± 34.38
90000
80000
70000
60000
50000
40000

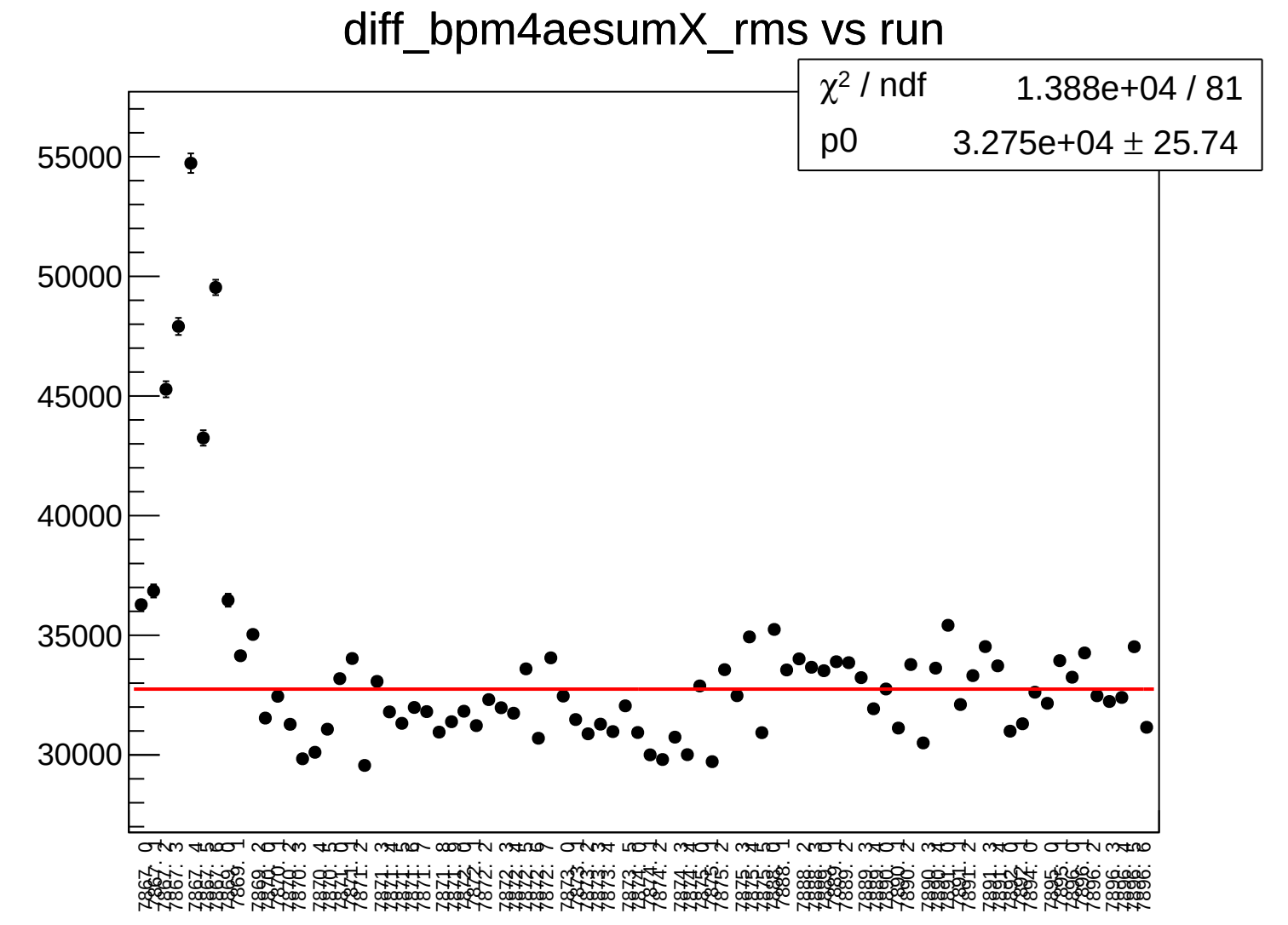

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 67.32 / 81
p0 23.53 ± 38.69
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean −227.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

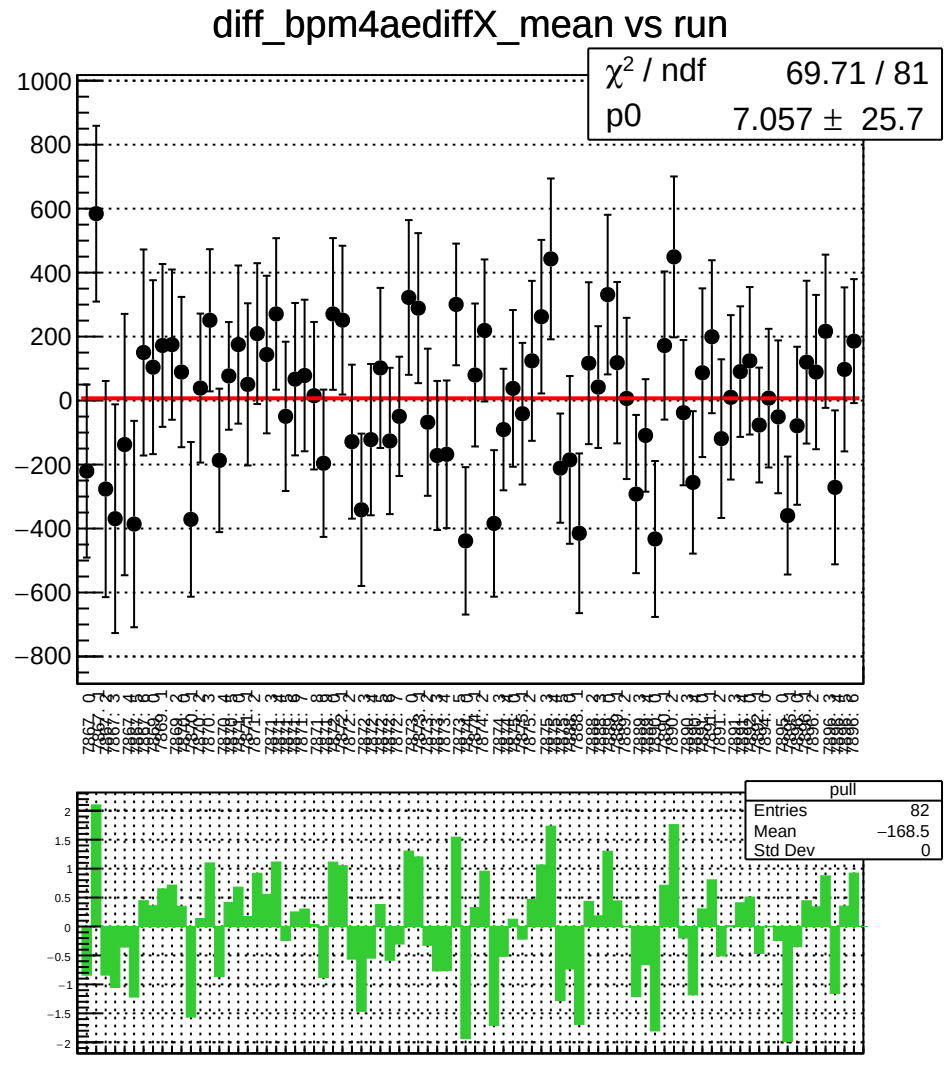

pull1D
Entries 82
Mean 0.01136
Std Dev 0.906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

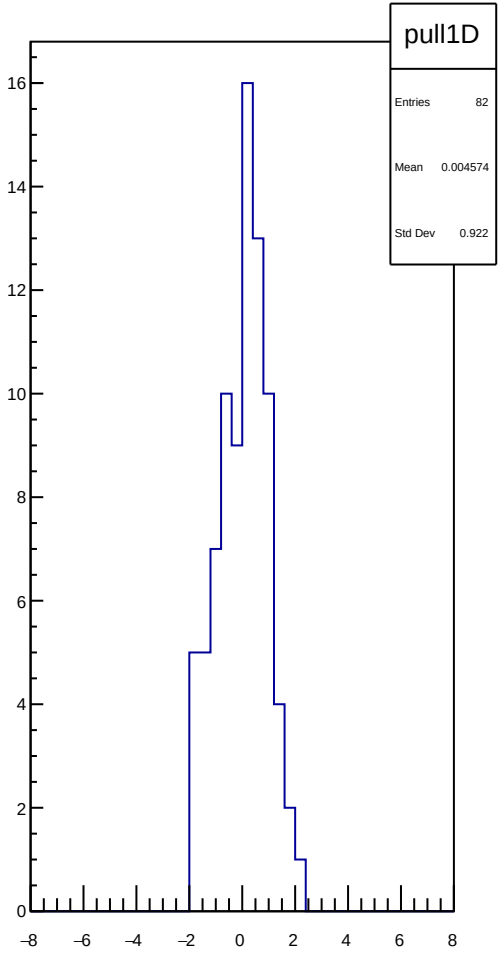

diff_bpmE_11X12X_rms vs run
χ^2 / ndf 2.62e+04 / 81
p0 3.467e+04 ± 27.36
70000
65000
60000
55000
50000
45000
40000
35000
30000

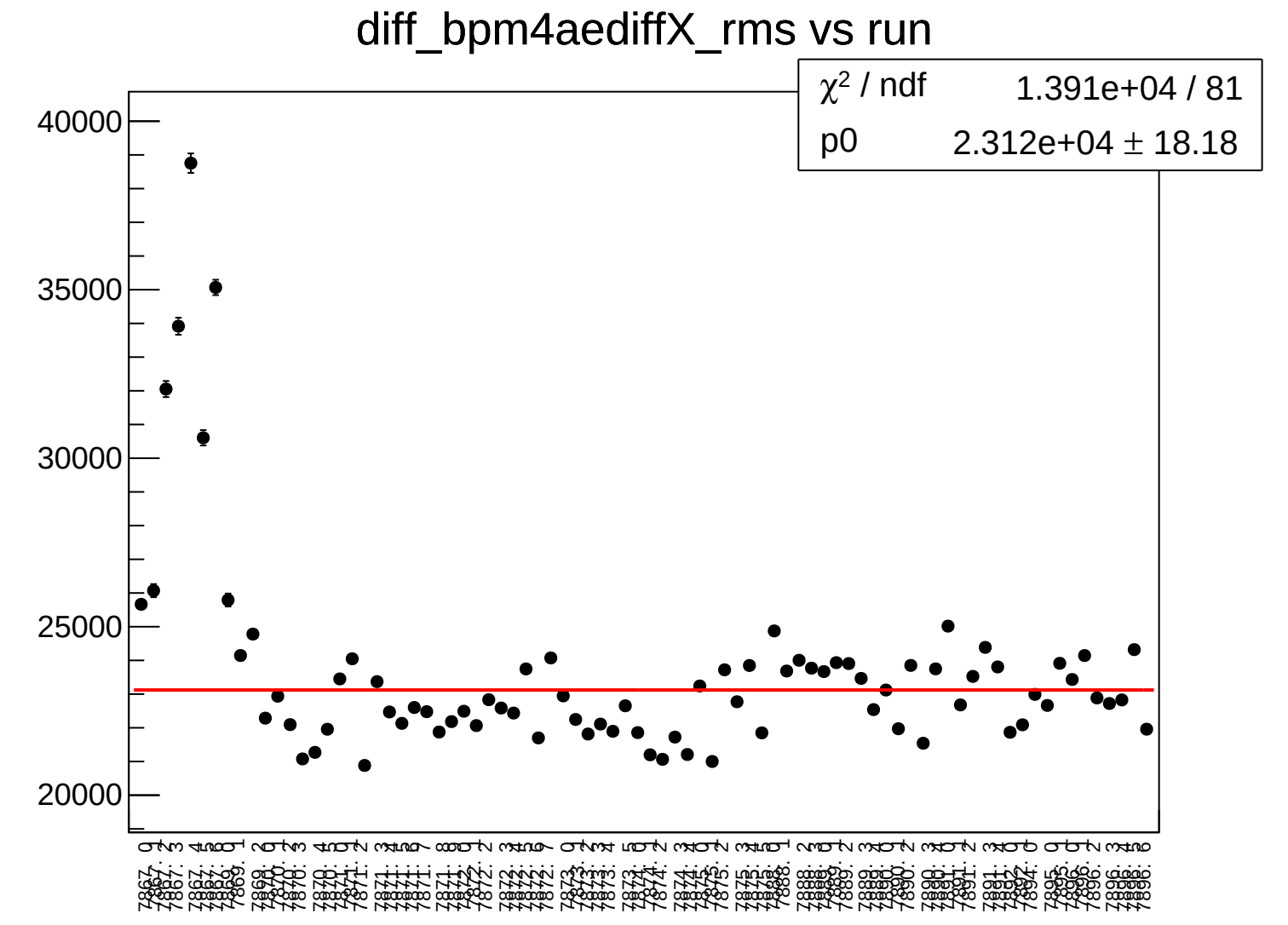

diff_bpm4aesumX_mean vs run
χ² / ndf 69.63 / 81
p0 −9.41 ± 36.41
1000
500
0
−500
−1000
pull
Entries 82
Mean −134.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

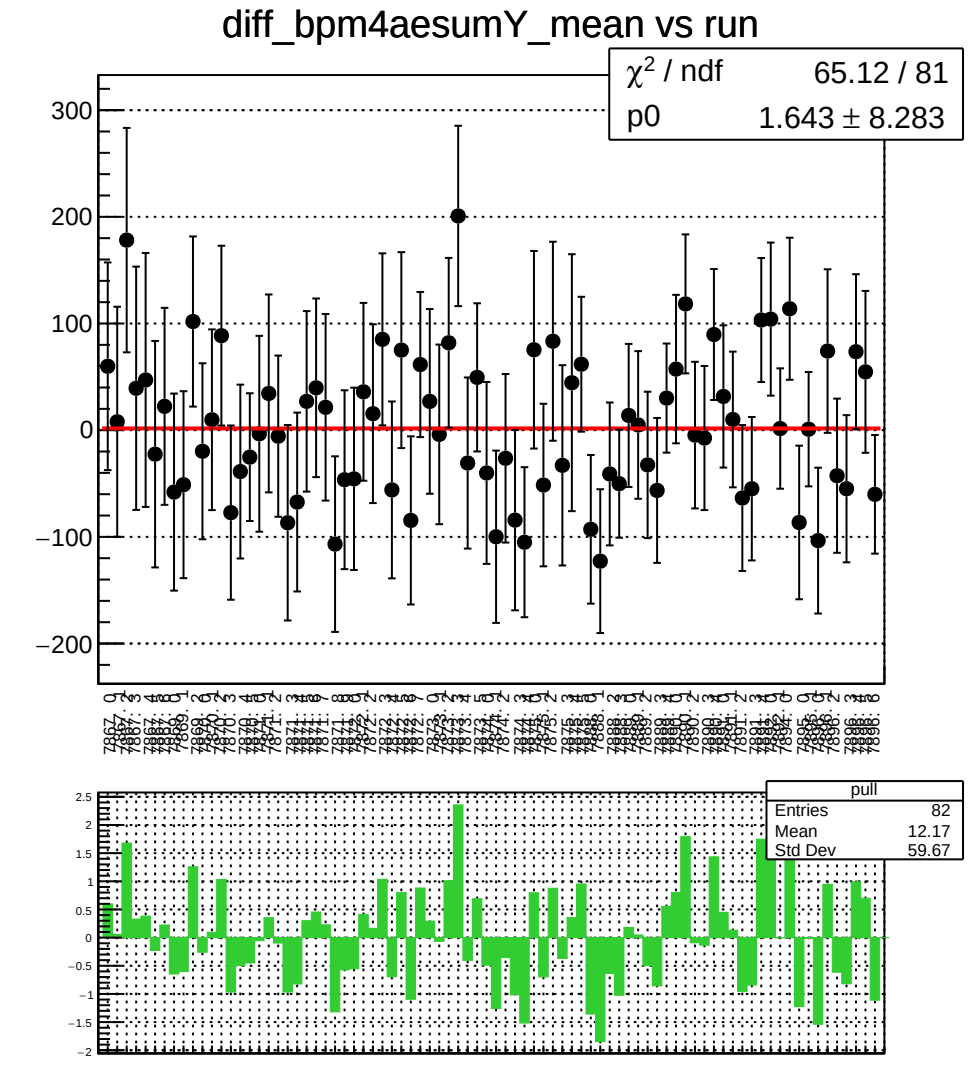

pull1D
Entries 82
Mean −0.005239
Std Dev 0.9215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

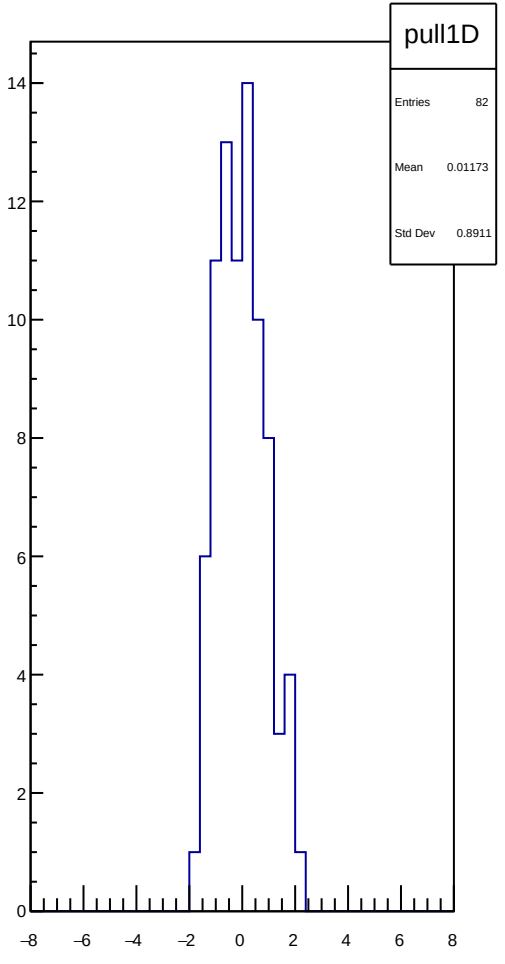

diff_bpm4aesumX_rms vs run
χ² / ndf 1.388e+04 / 81
p0 3.275e+04 ± 25.74
55000
50000
45000
40000
35000
30000

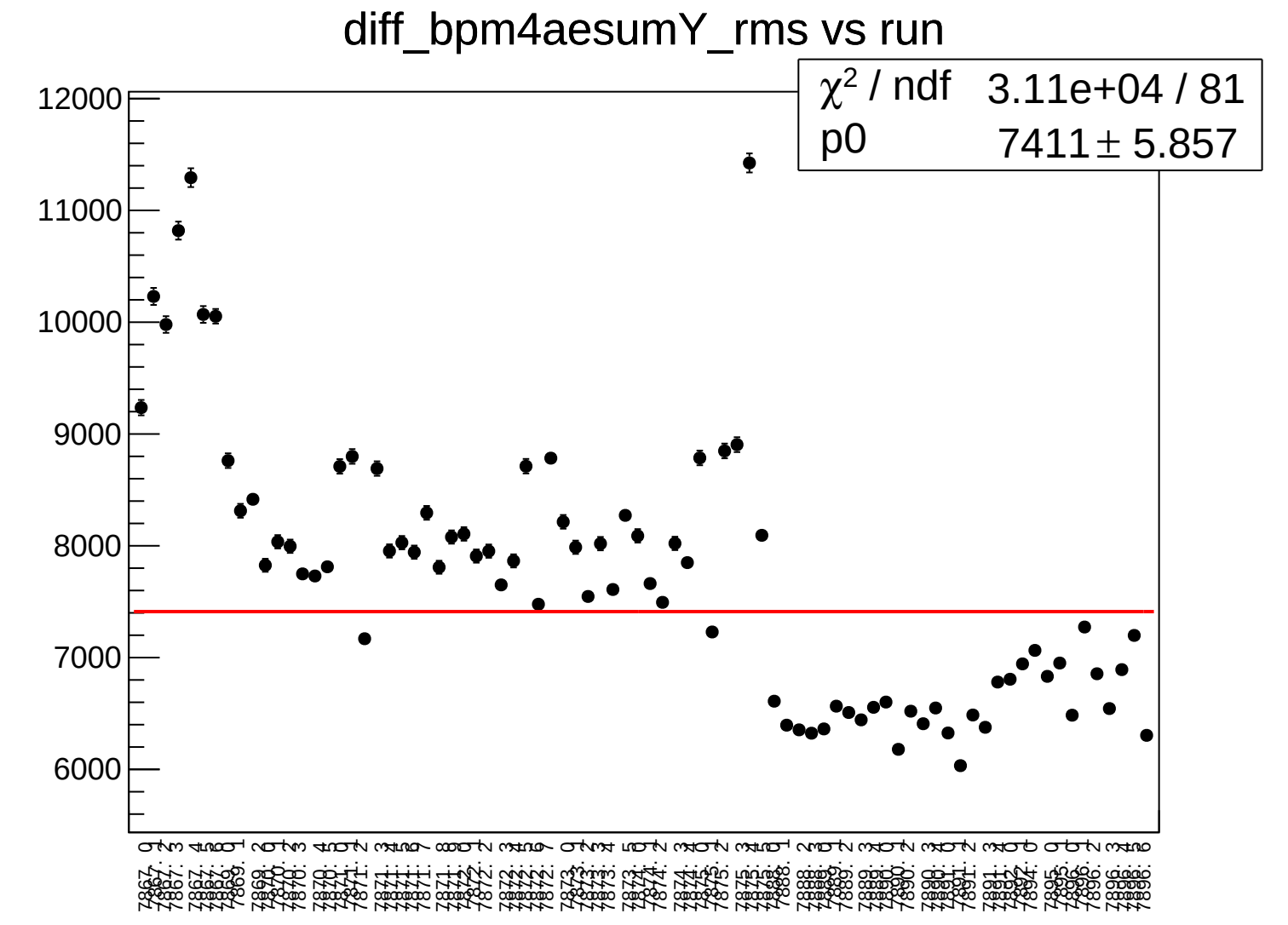

diff_bpm4aediffX_mean vs run
χ² / ndf 69.71 / 81
p0 7.057 ± 25.7
pull
Entries 82
Mean −168.5
Std Dev 0

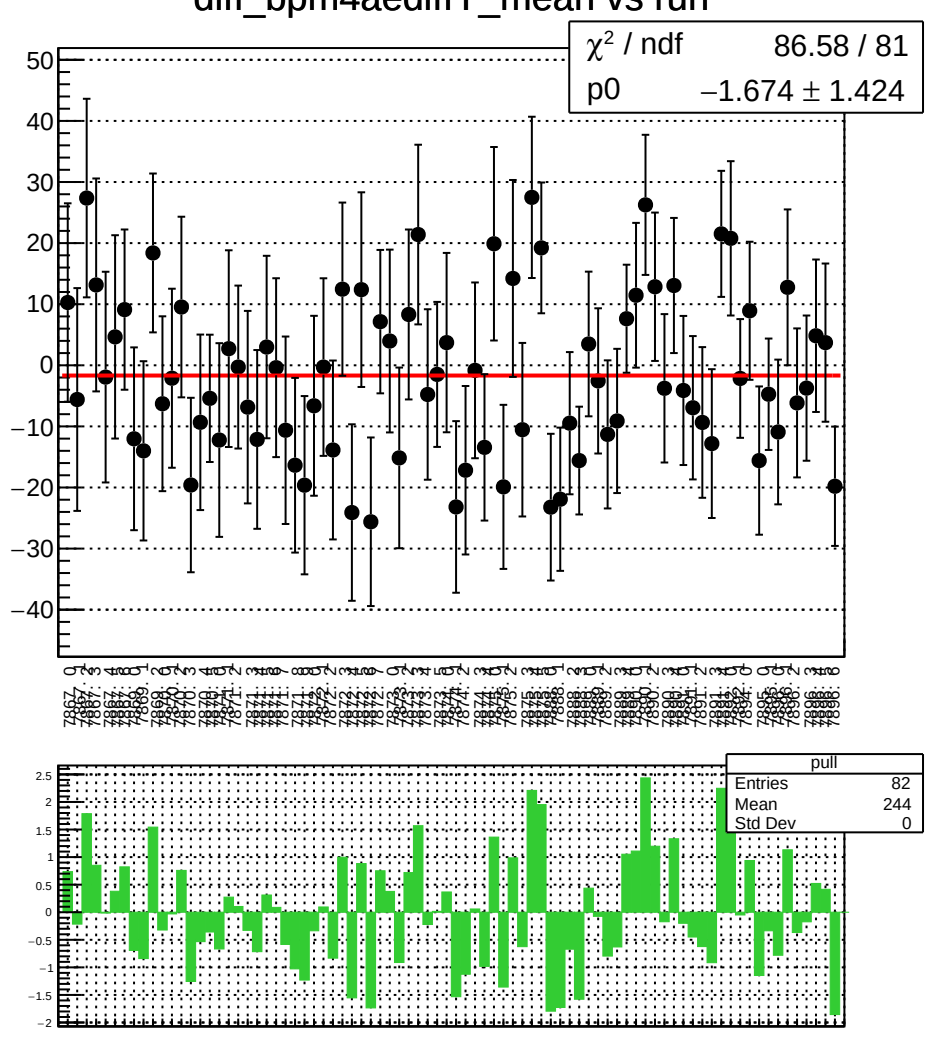

pull1D
Entries 82
Mean 0.004574
Std Dev 0.922

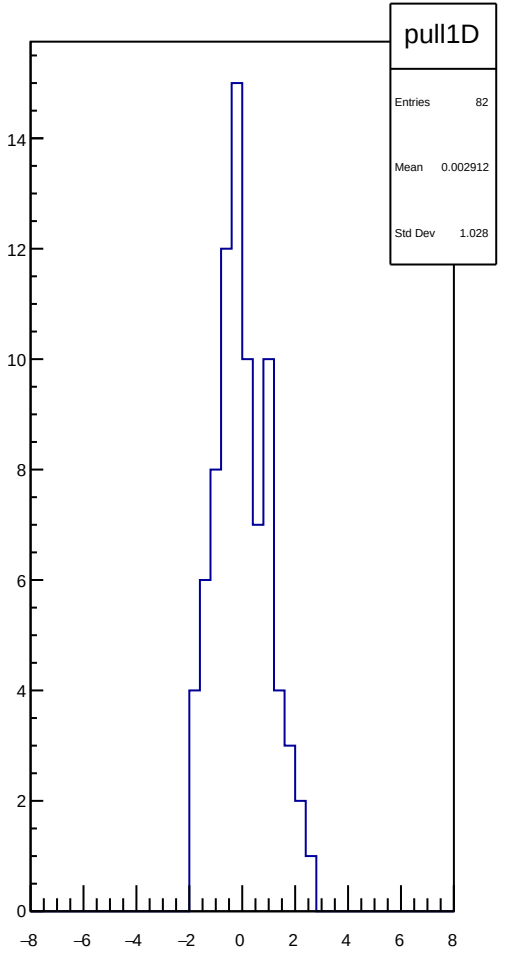

diff_bpm4aediffX_rms vs run
χ² / ndf 1.391e+04 / 81
p0 2.312e+04 ± 18.18
40000
35000
30000
25000
20000

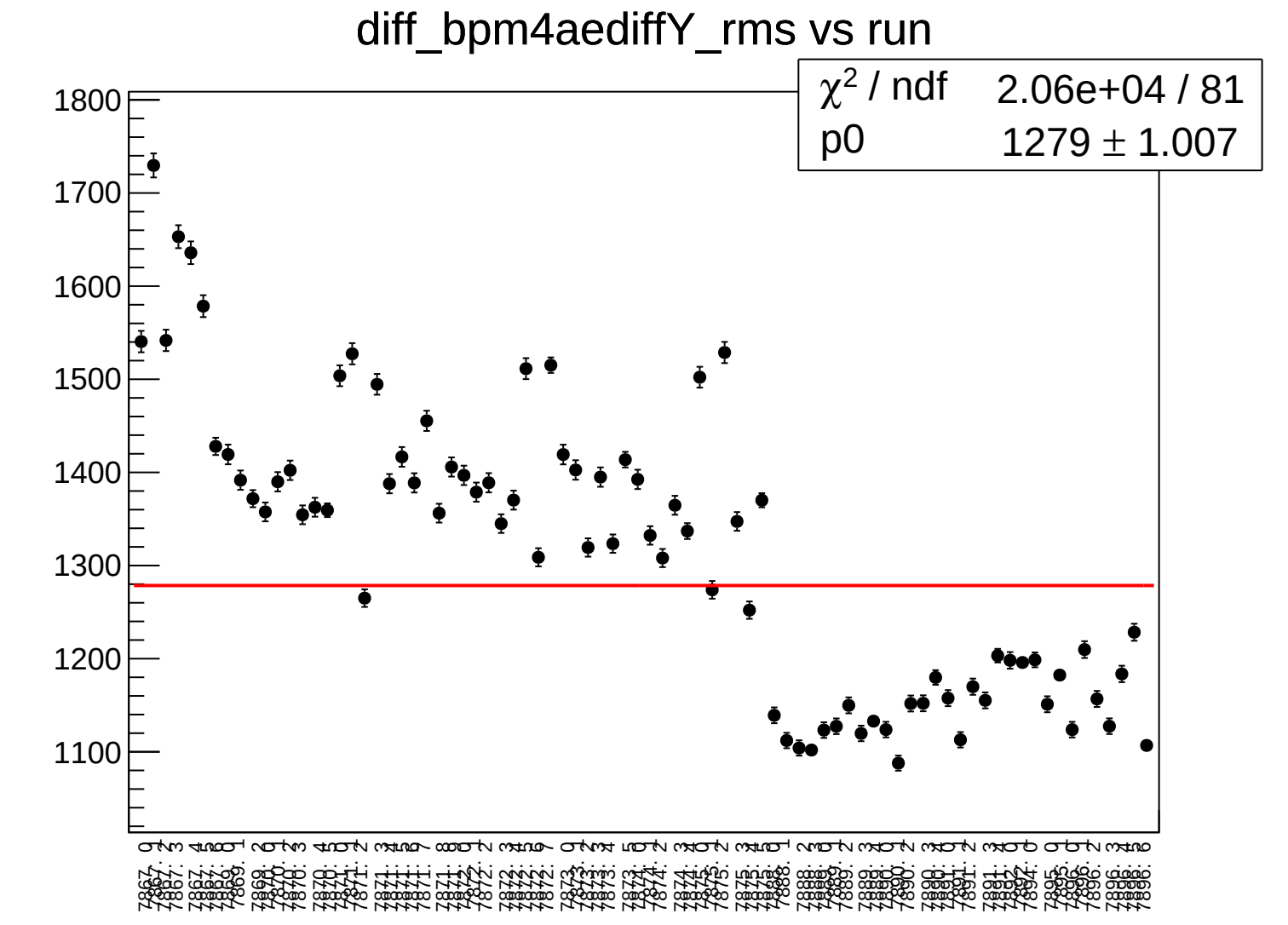

diff_bpm4aesumY_mean vs run
χ² / ndf 65.12 / 81
p0 1.643 ± 8.283
pull
Entries 82
Mean 12.17
Std Dev 59.67

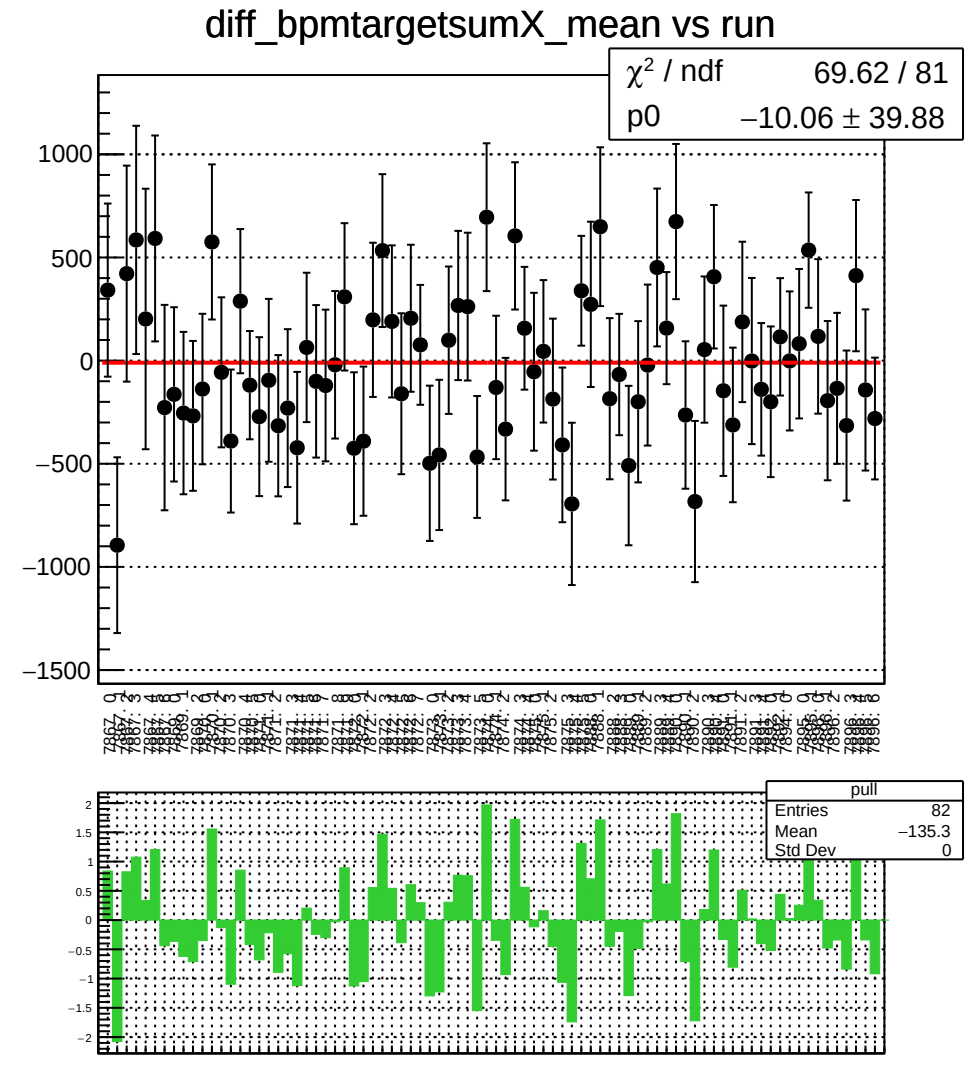

pull1D
Entries 82
Mean 0.01173
Std Dev 0.8911

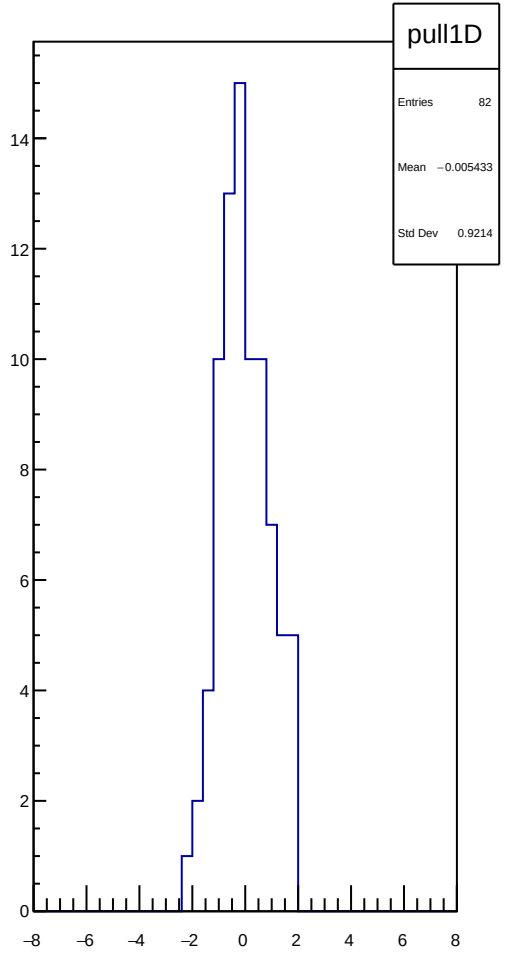

diff_bpm4aesumY_rms vs run
χ² / ndf 3.11e+04 / 81
p0 7411 ± 5.857
12000
11000
10000
9000
8000
7000
6000

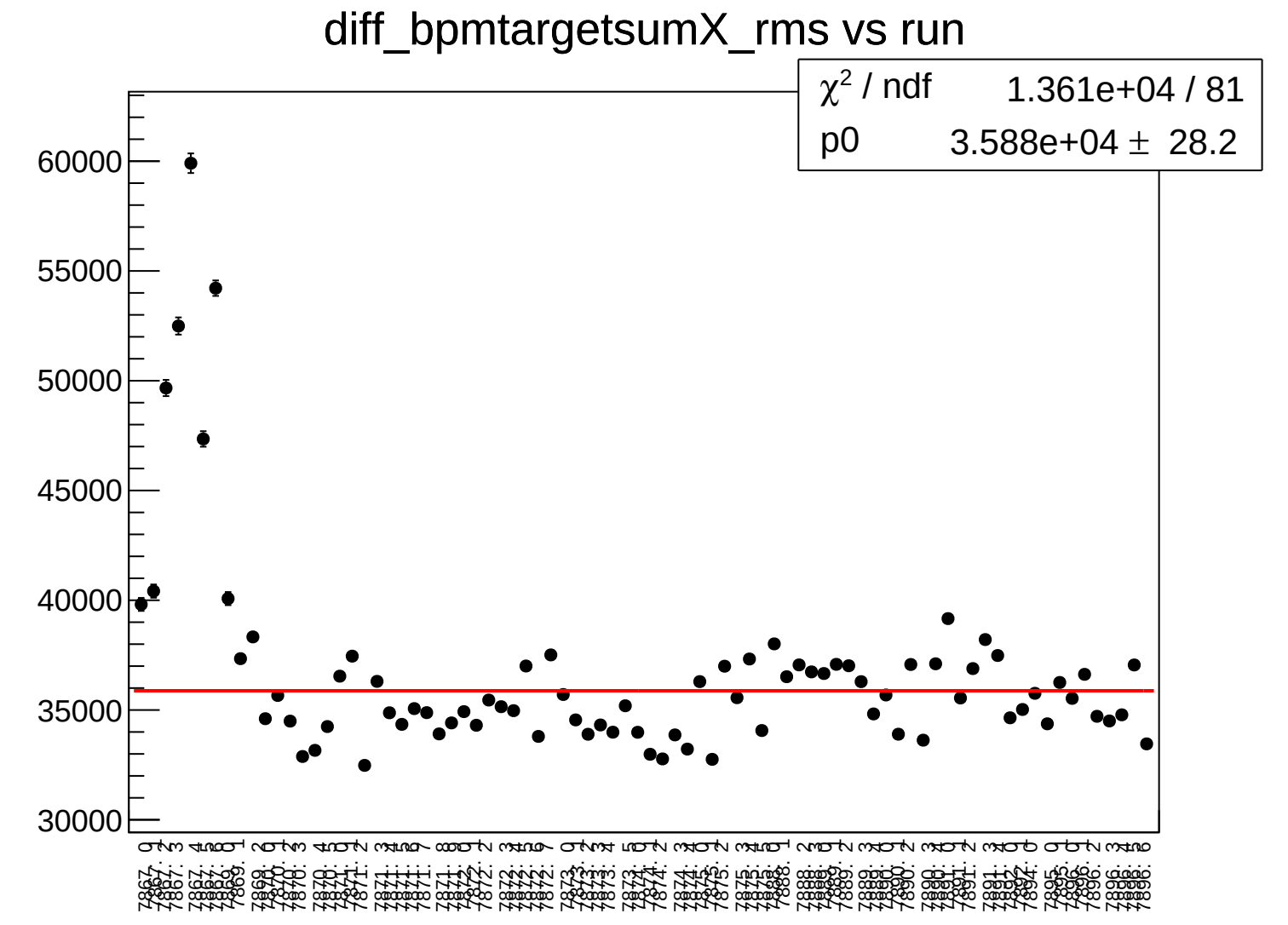

diff_bpm4aediffY_mean vs run
χ² / ndf 86.58 / 81
p0 −1.674 ± 1.424
pull
Entries 82
Mean 244
Std Dev 0

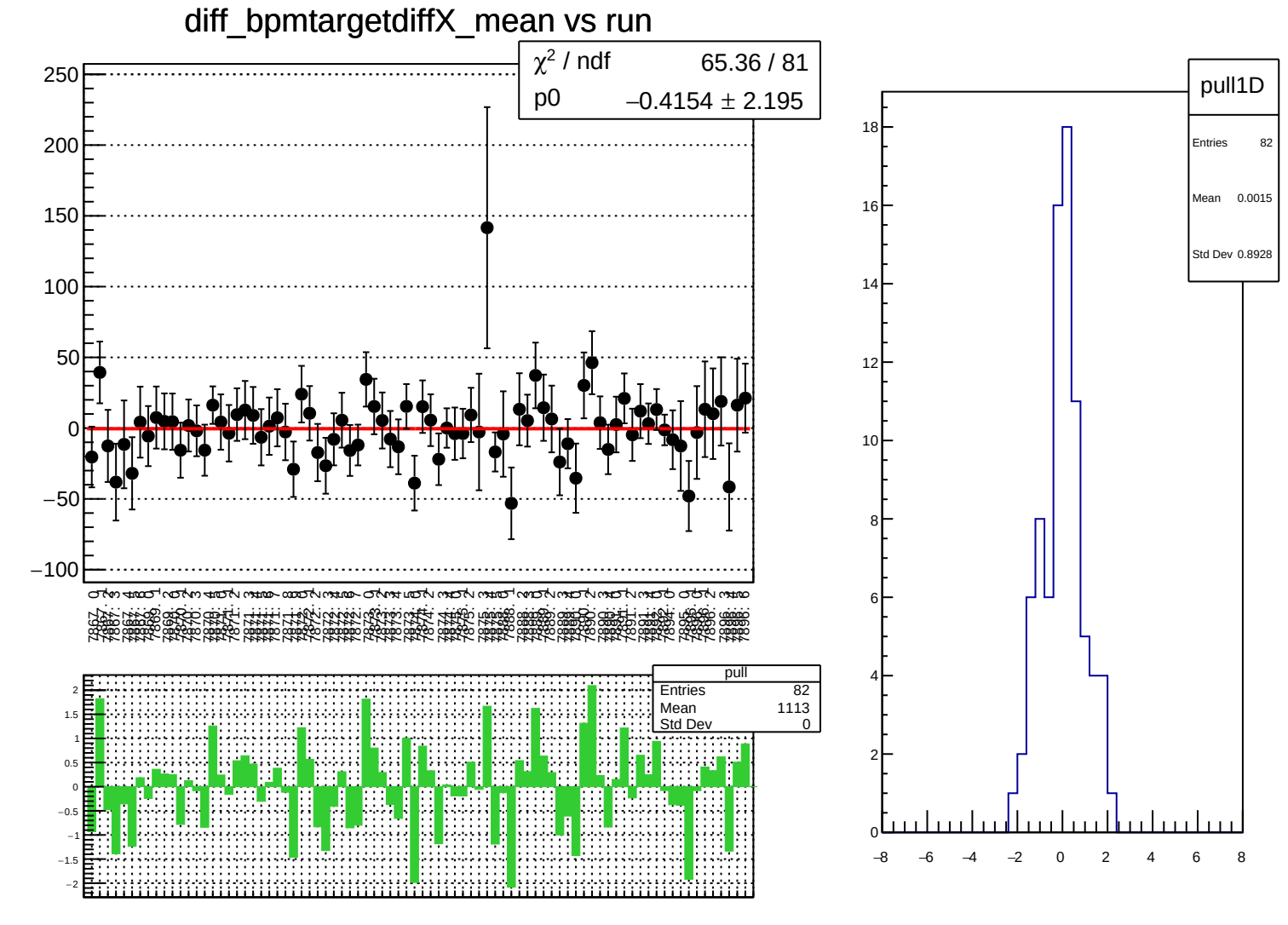

pull1D
Entries 82
Mean 0.002912
Std Dev 1.028

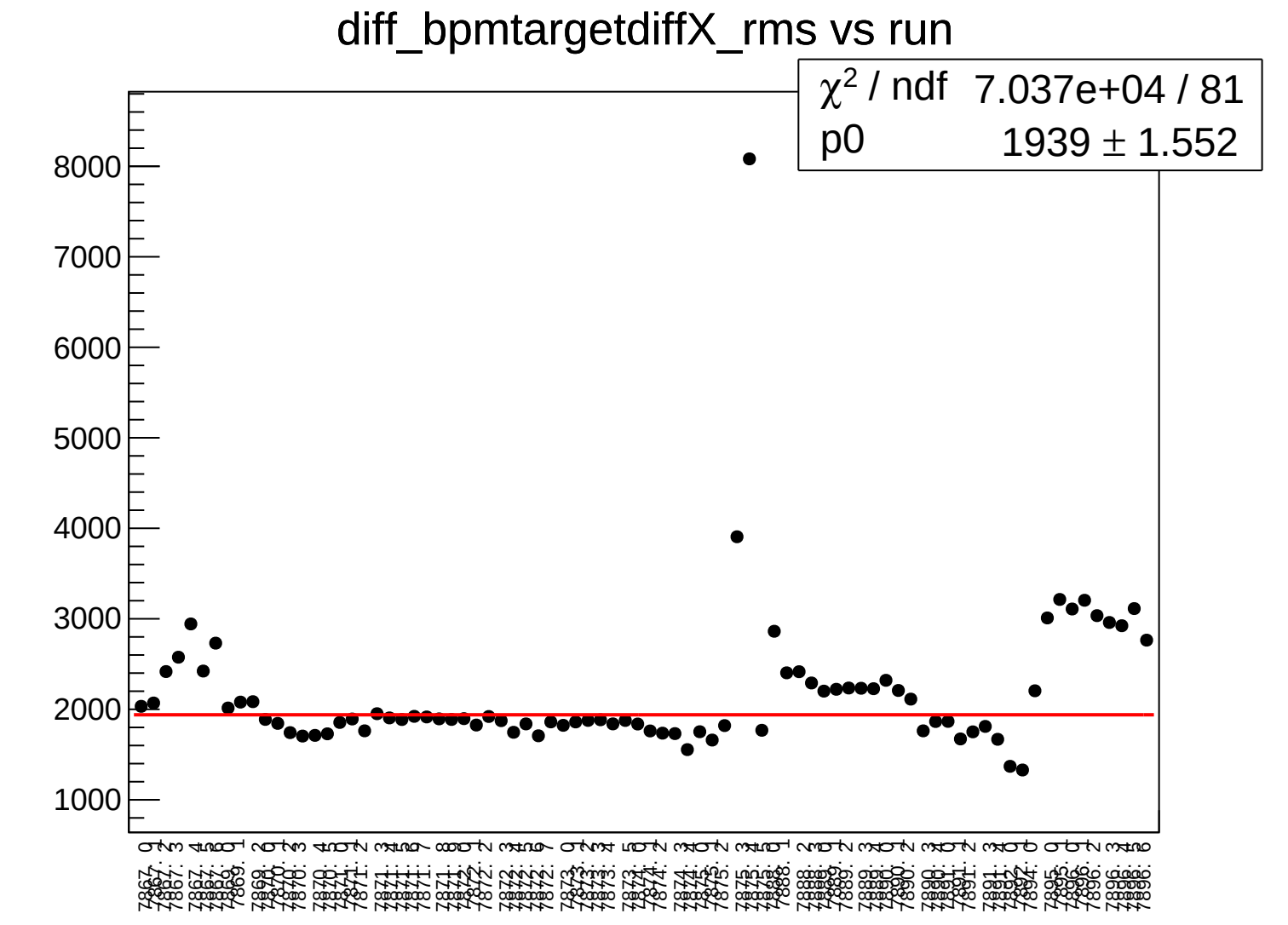

diff_bpm4aediffY_rms vs run
χ² / ndf 2.06e+04 / 81
p0 1279 ± 1.007
1800
1700
1600
1500
1400
1300
1200
1100

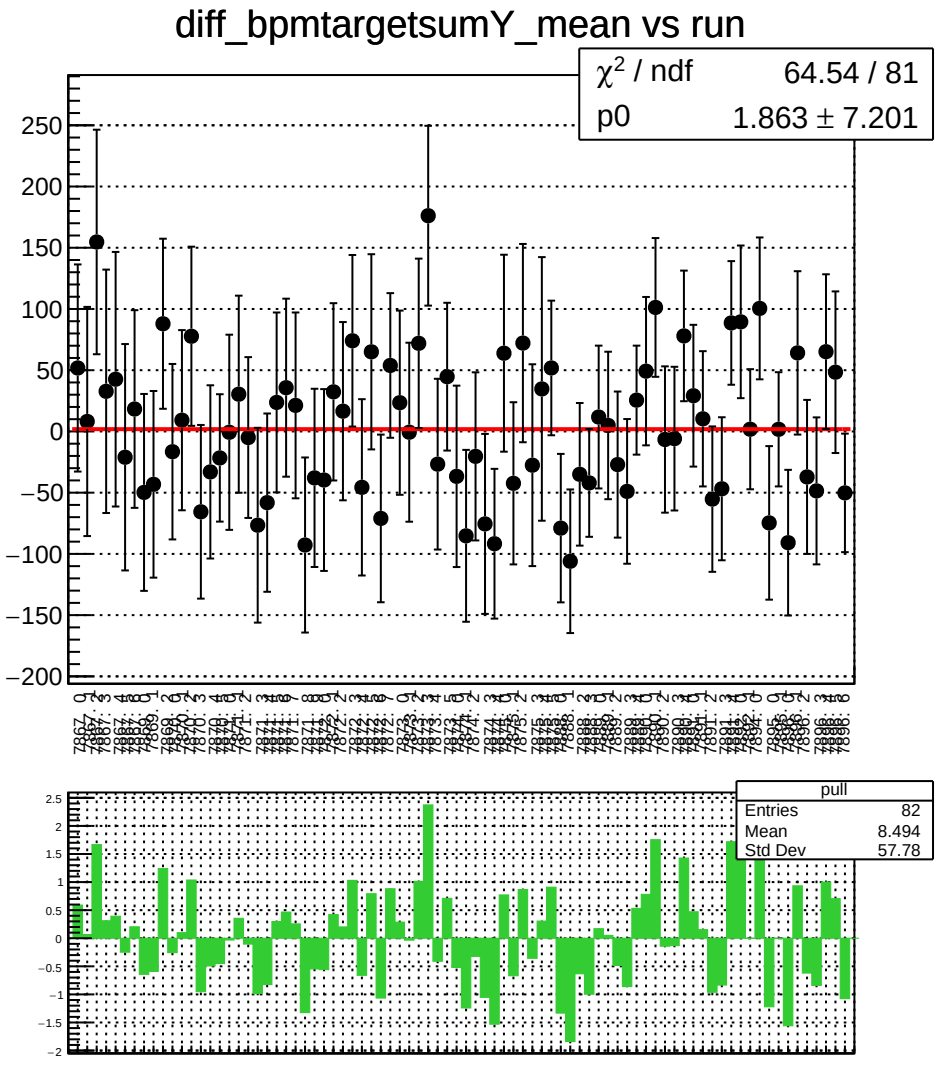

diff_bpmtargetsumX_mean vs run
χ² / ndf 69.62 / 81
p0 −10.06 ± 39.88
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean −135.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

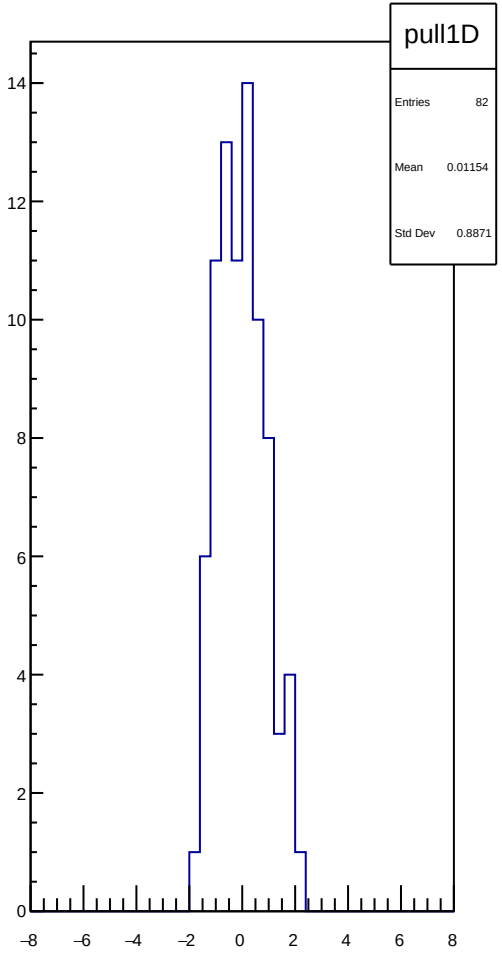

pull1D
Entries 82
Mean −0.005433
Std Dev 0.9214
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

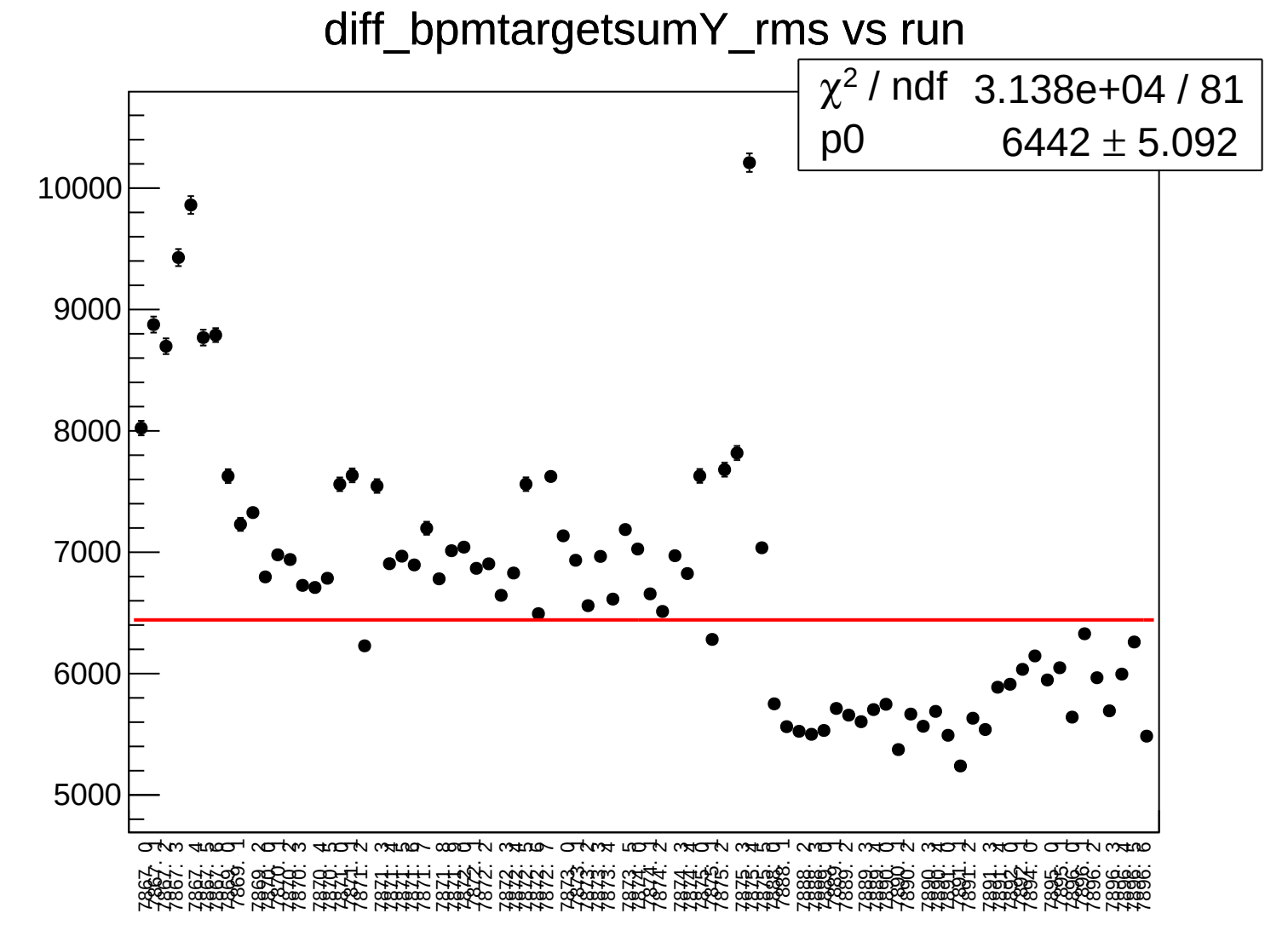

diff_bpmtargetsumX_rms vs run
χ^2 / ndf 1.361e+04 / 81
p0 3.588e+04 ± 28.2
60000
55000
50000
45000
40000
35000
30000

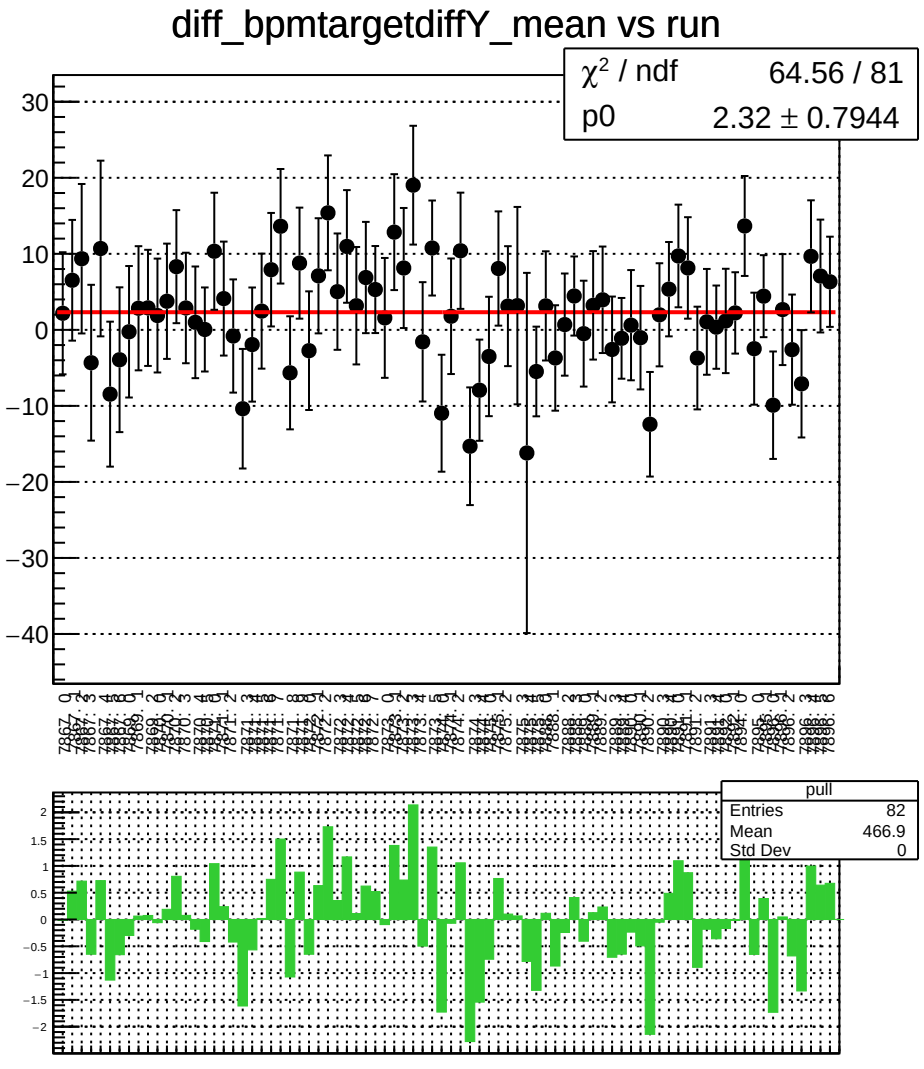

diff_bpmtargetdiffX_mean vs run
χ² / ndf 65.36 / 81
p0 −0.4154 ± 2.195
pull
Entries 82
Mean 1113
Std Dev 0
pull1D
Entries 82
Mean 0.0015
Std Dev 0.8928

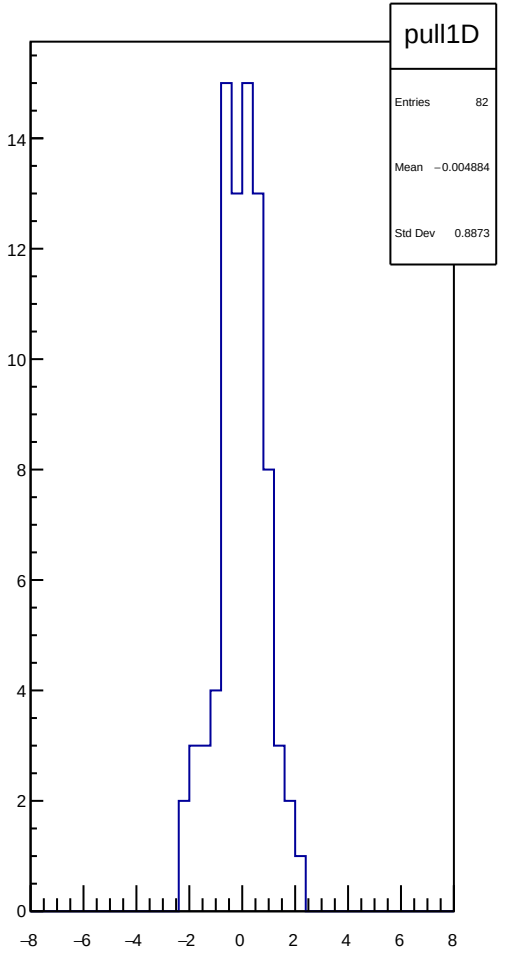

diff_bpmtargetdiffX_rms vs run
χ² / ndf 7.037e+04 / 81
p0 1939 ± 1.552
8000
7000
6000
5000
4000
3000
2000
1000

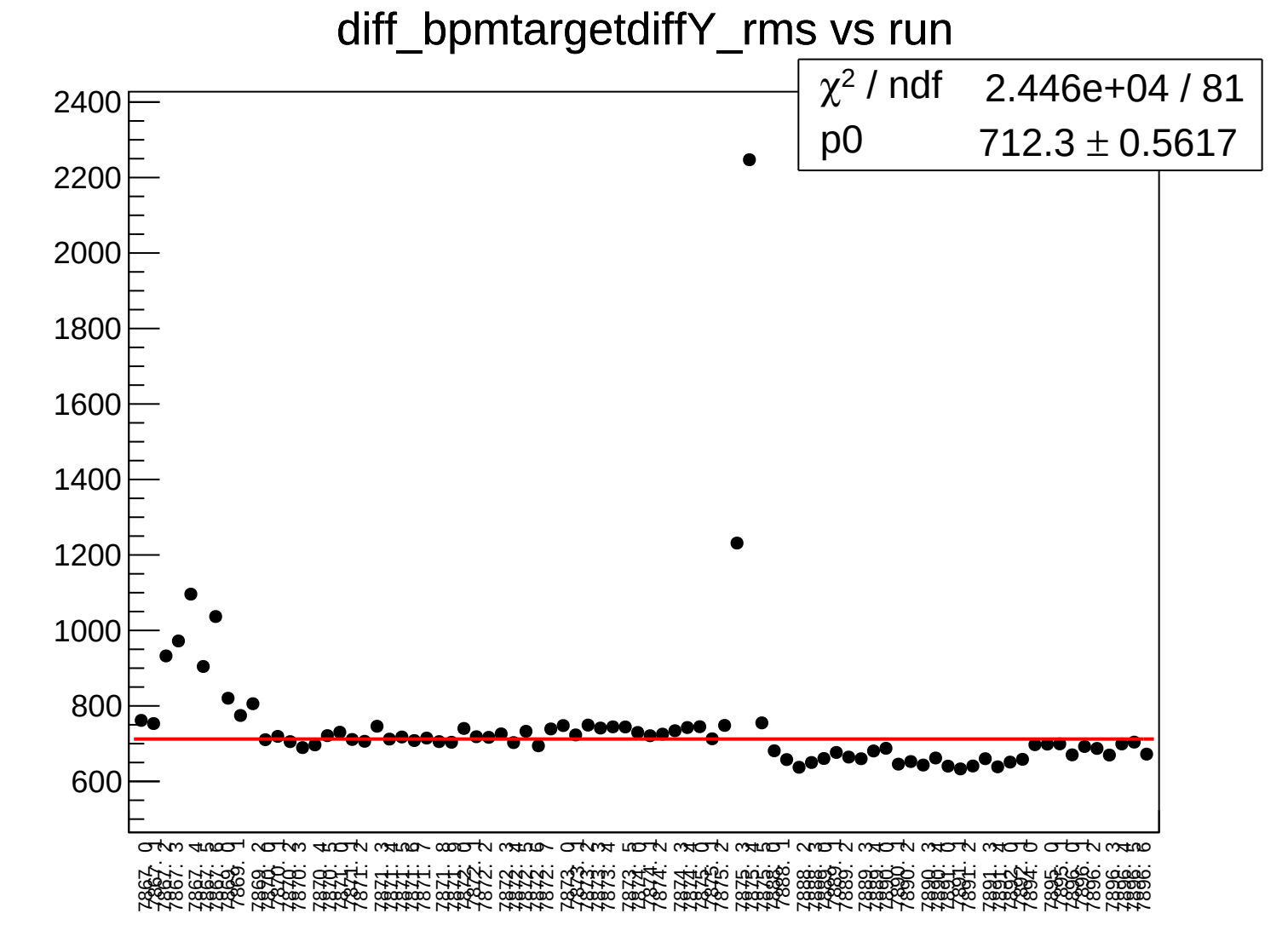

diff_bpmtargetsumY_mean vs run
χ² / ndf 64.54 / 81
p0 1.863 ± 7.201
pull
Entries 82
Mean 8.494
Std Dev 57.78

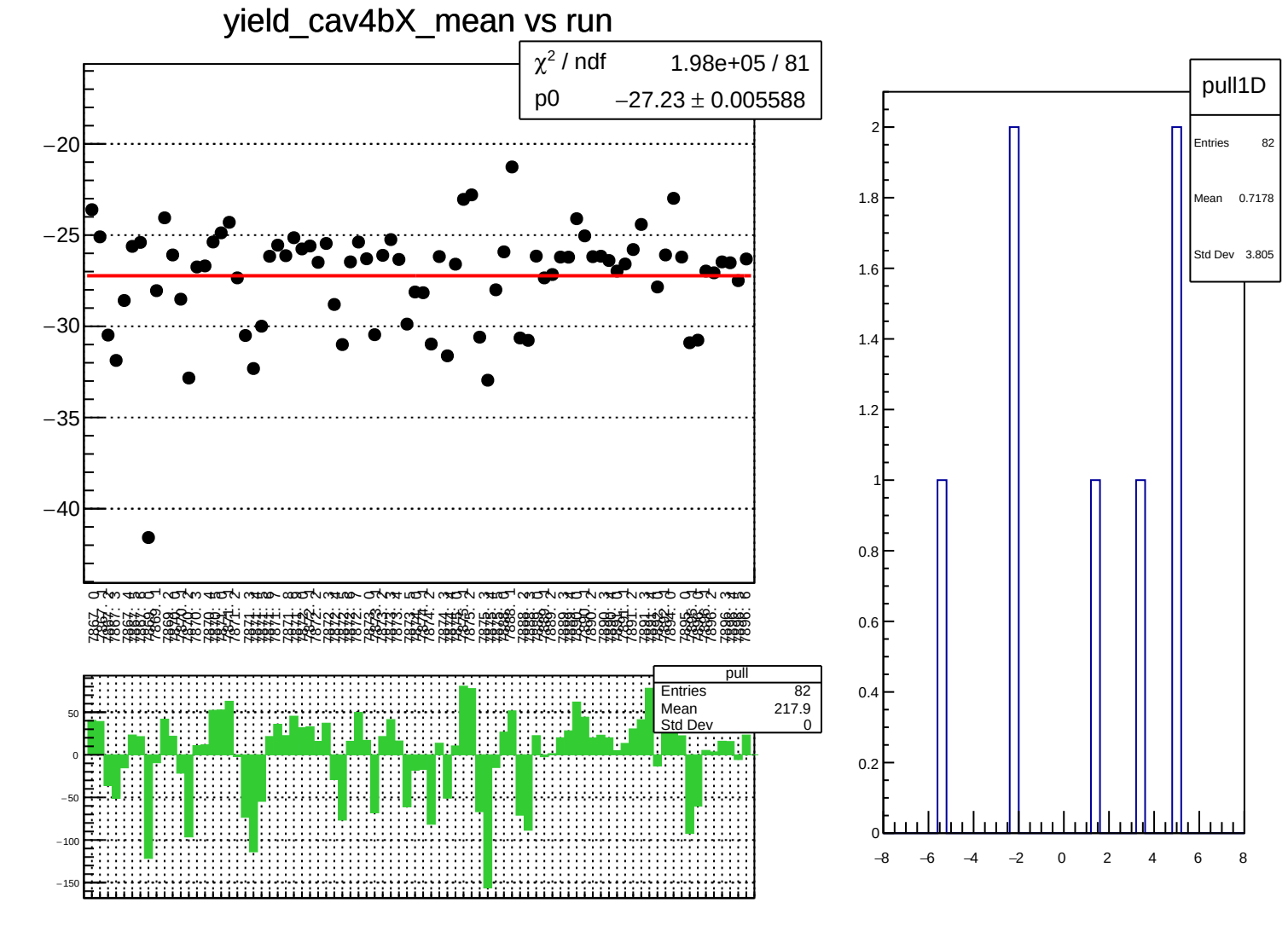

pull1D
Entries 82
Mean 0.01154
Std Dev 0.8871

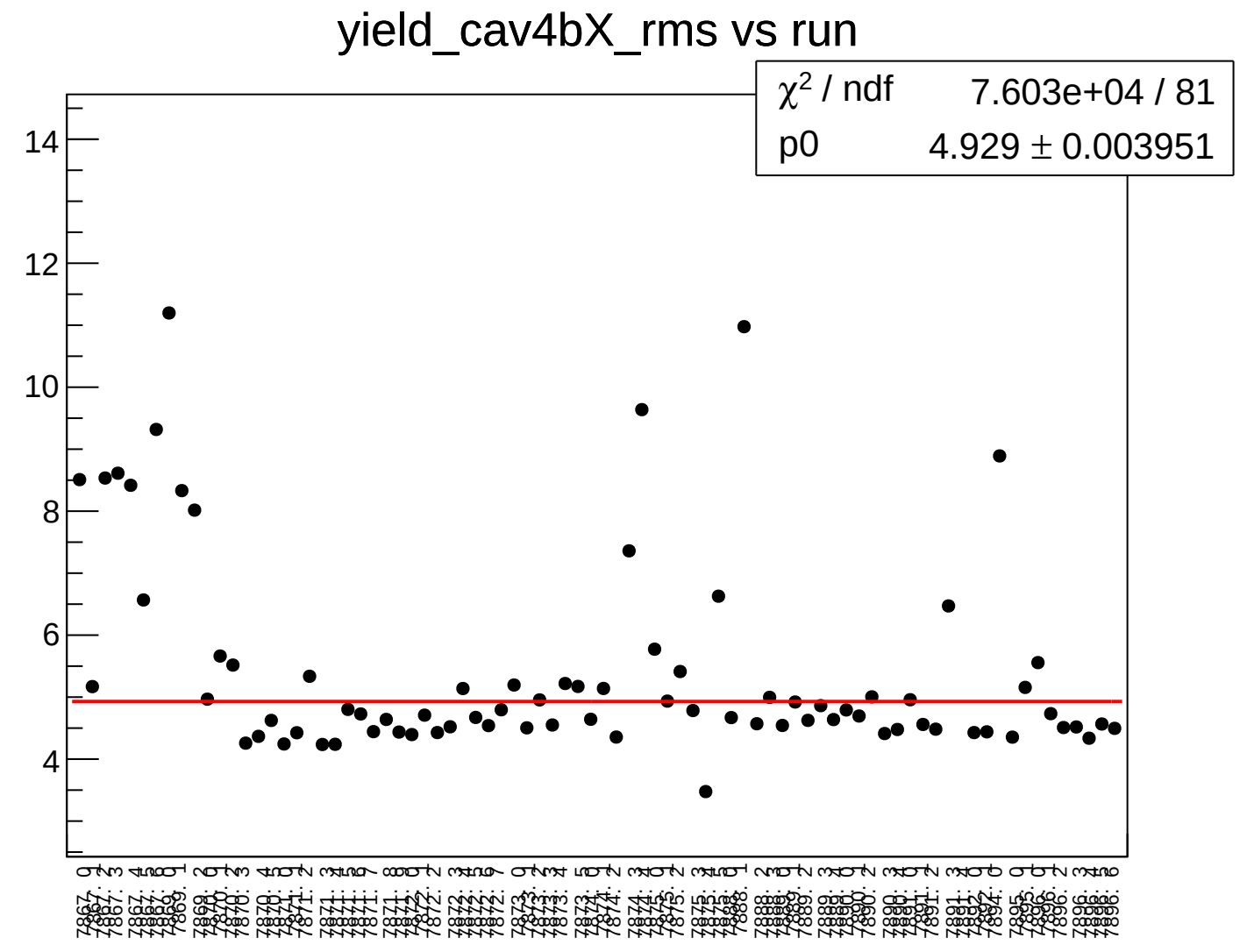

diff_bpmtargetsumY_rms vs run
χ² / ndf 3.138e+04 / 81
p0 6442 ± 5.092
10000
9000
8000
7000
6000
5000

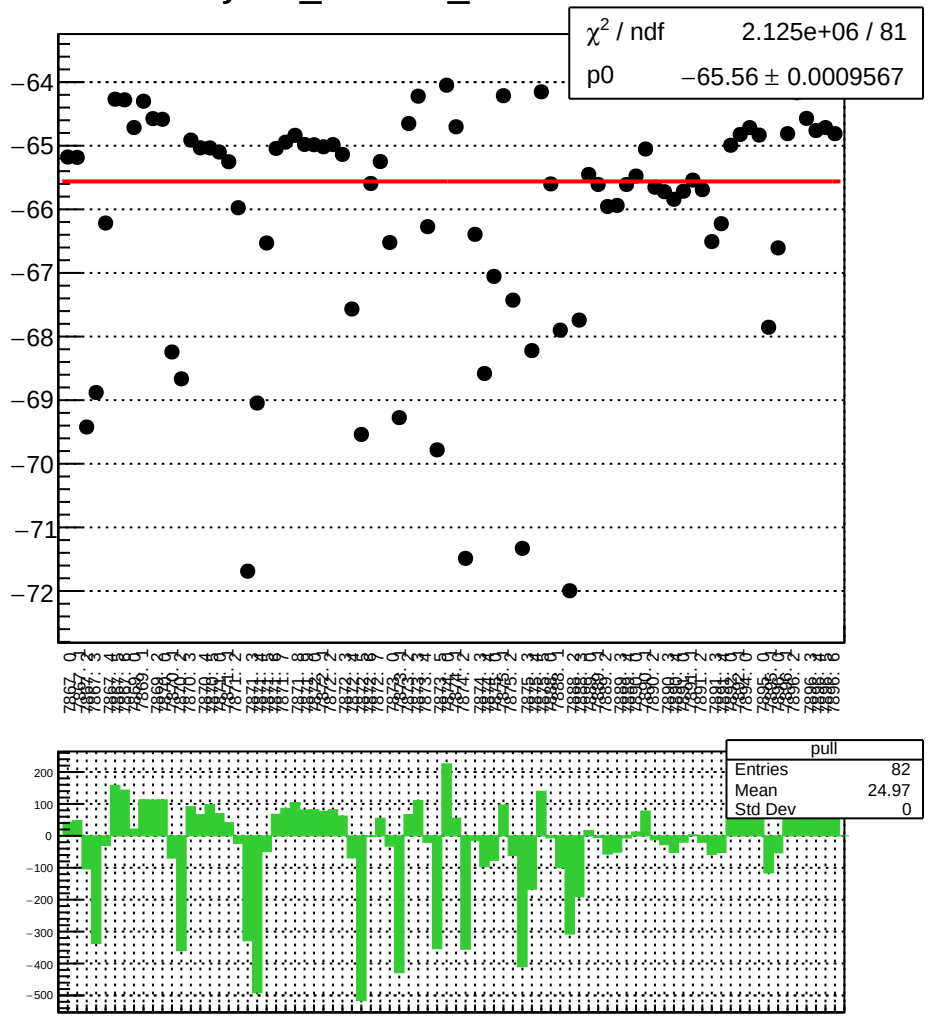

diff_bpmtargetdiffY_mean vs run
χ² / ndf 64.56 / 81
p0 2.32 ± 0.7944
pull
Entries 82
Mean 466.9
Std Dev 0

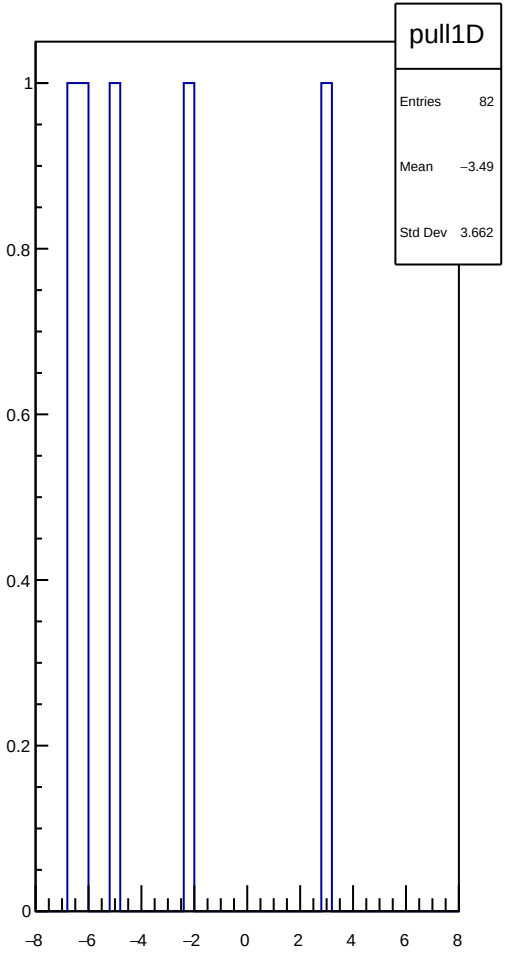

pull1D
Entries 82
Mean −0.004884
Std Dev 0.8873

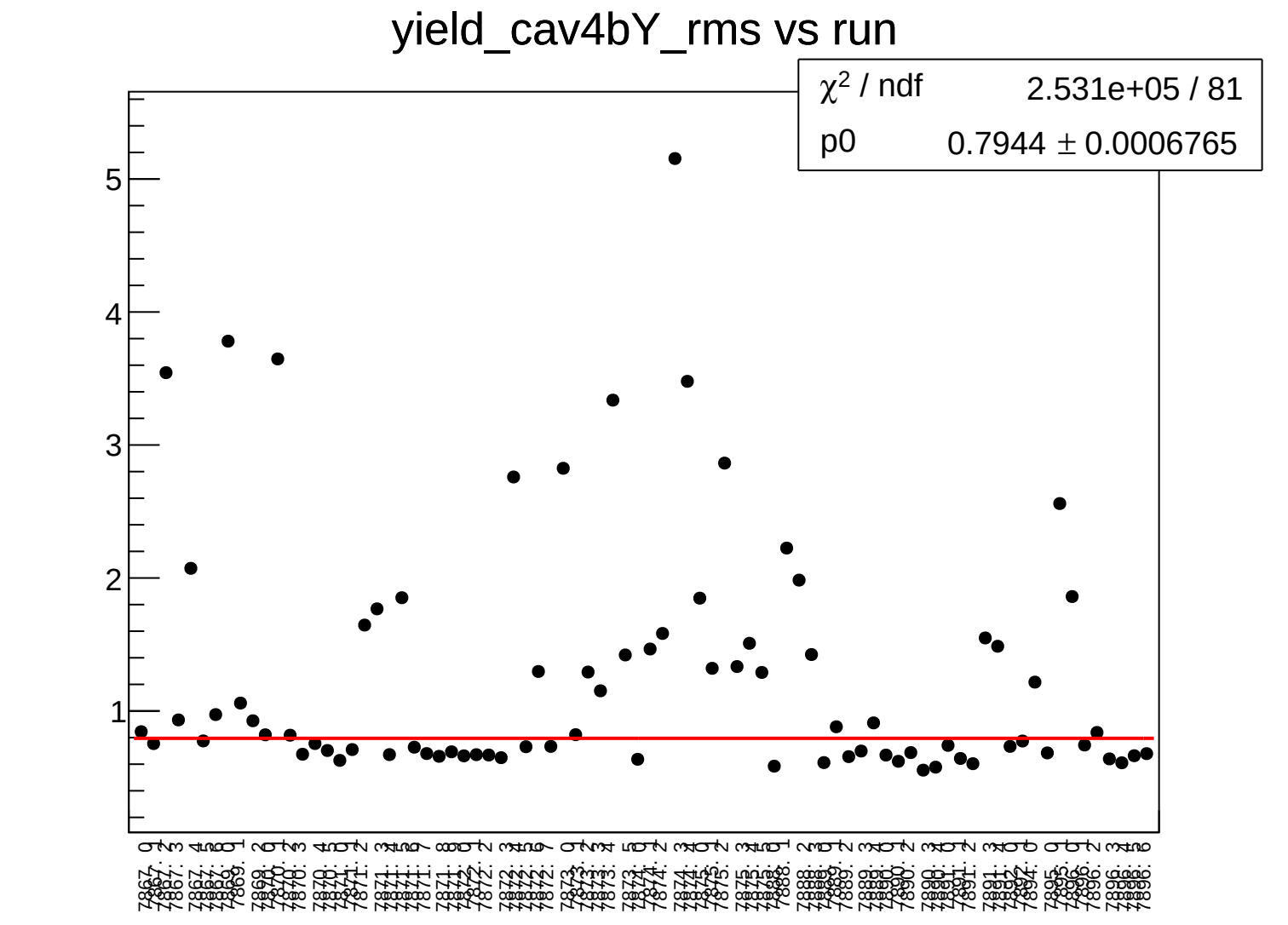

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2.446e+04 / 81
p0 712.3 ± 0.5617
2400
2200
2000
1800
1600
1400
1200
1000
800
600

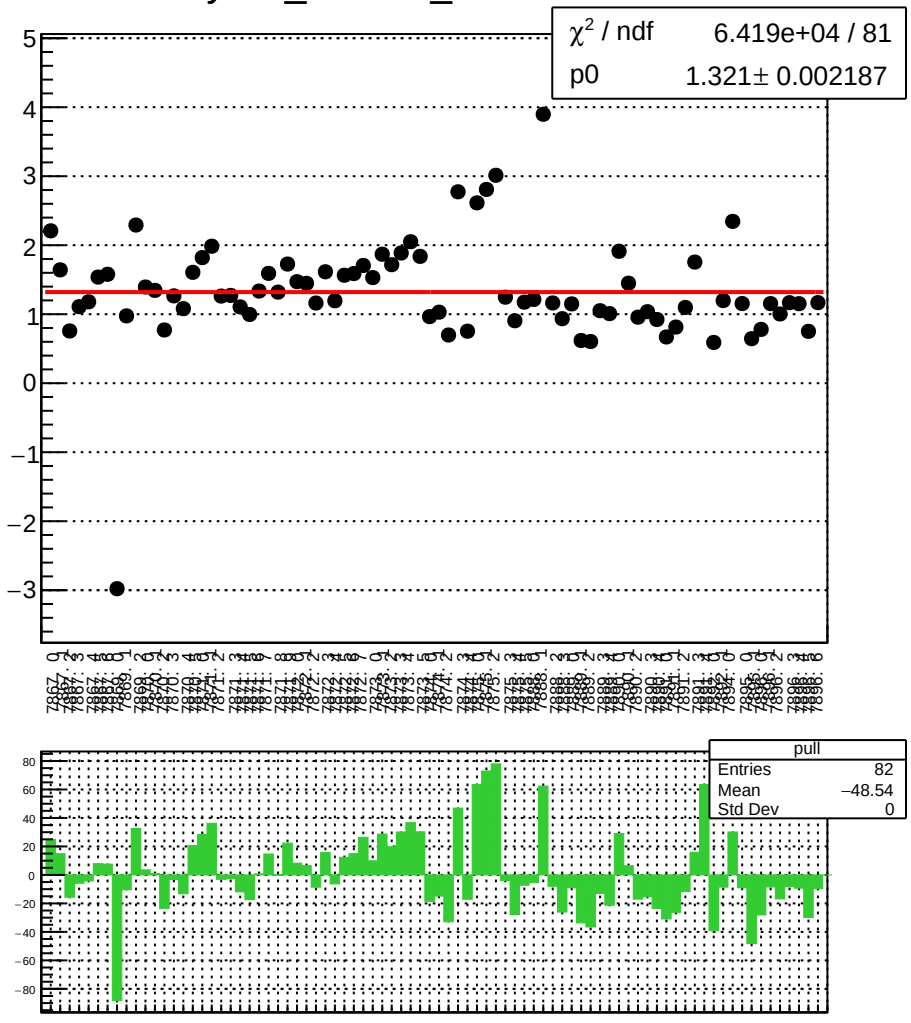

yield_cav4bX_mean vs run
χ² / ndf 1.98e+05 / 81
p0 −27.23 ± 0.005588
−20
−25
−30
−35
−40
pull
Entries 82
Mean 217.9
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 82
Mean 0.7178
Std Dev 3.805
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

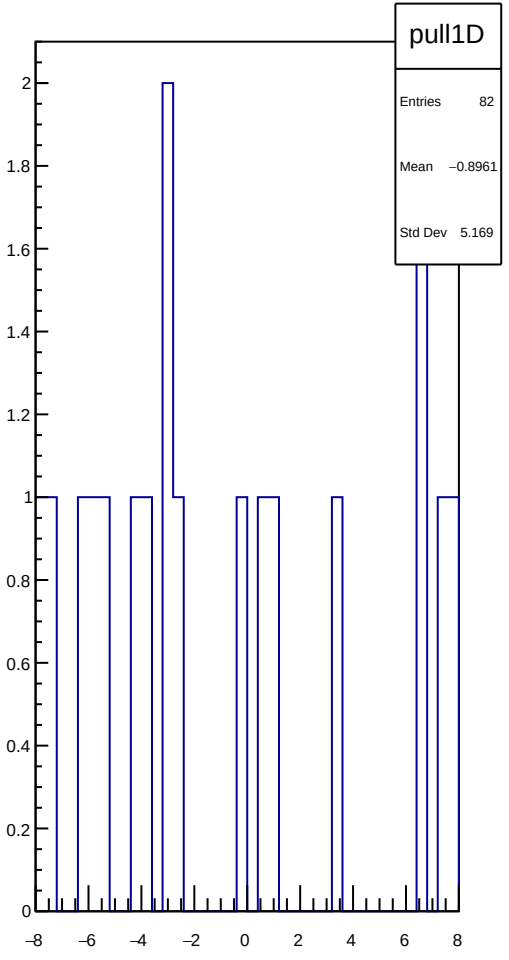

yield_cav4bX_rms vs run
χ^2 / ndf 7.603e+04 / 81
p0 4.929 ± 0.003951
14
12
10
8
6
4

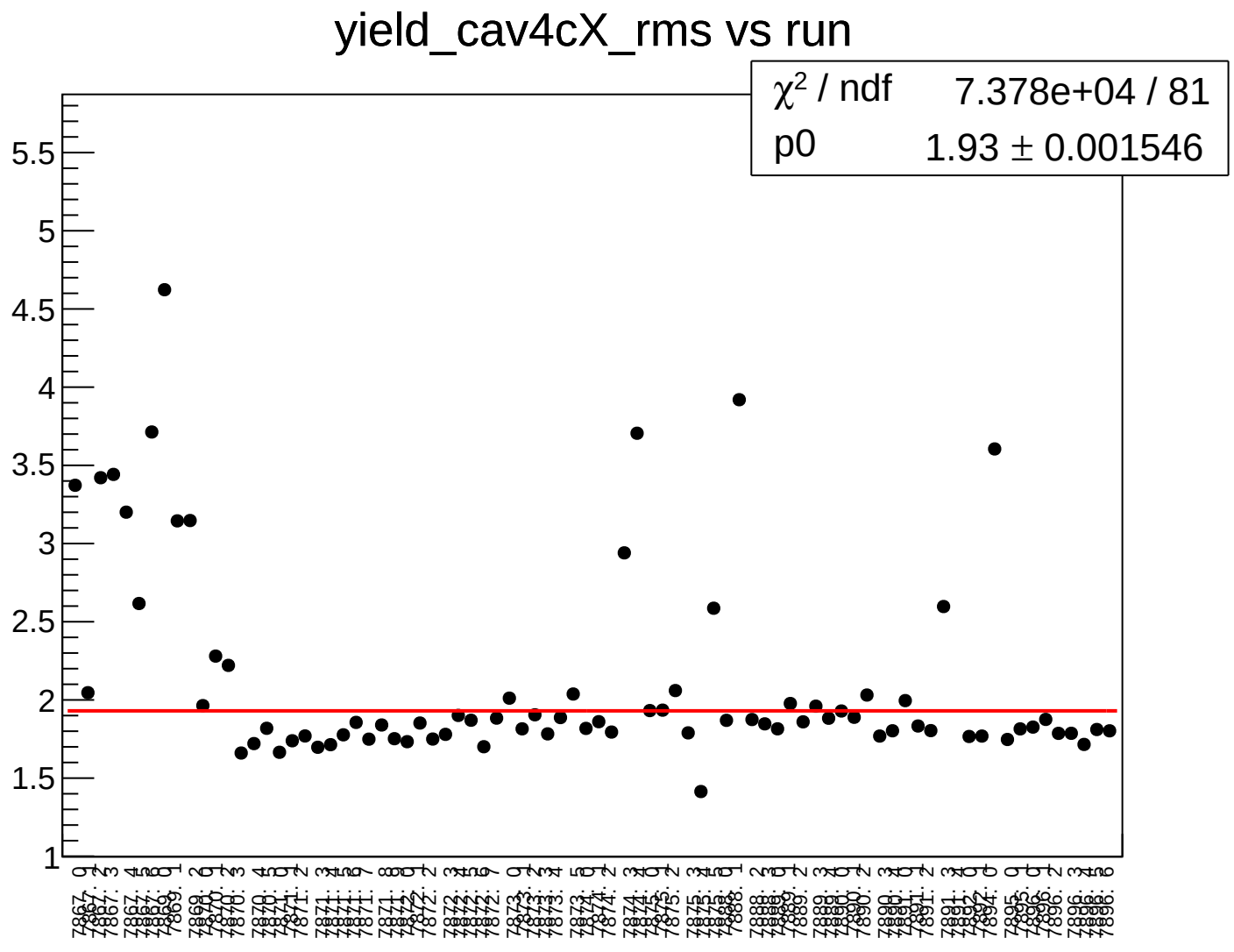

yield_cav4bY_mean vs run
χ² / ndf 2.125e+06 / 81
p0 −65.56 ± 0.0009567
pull
Entries 82
Mean 24.97
Std Dev 0

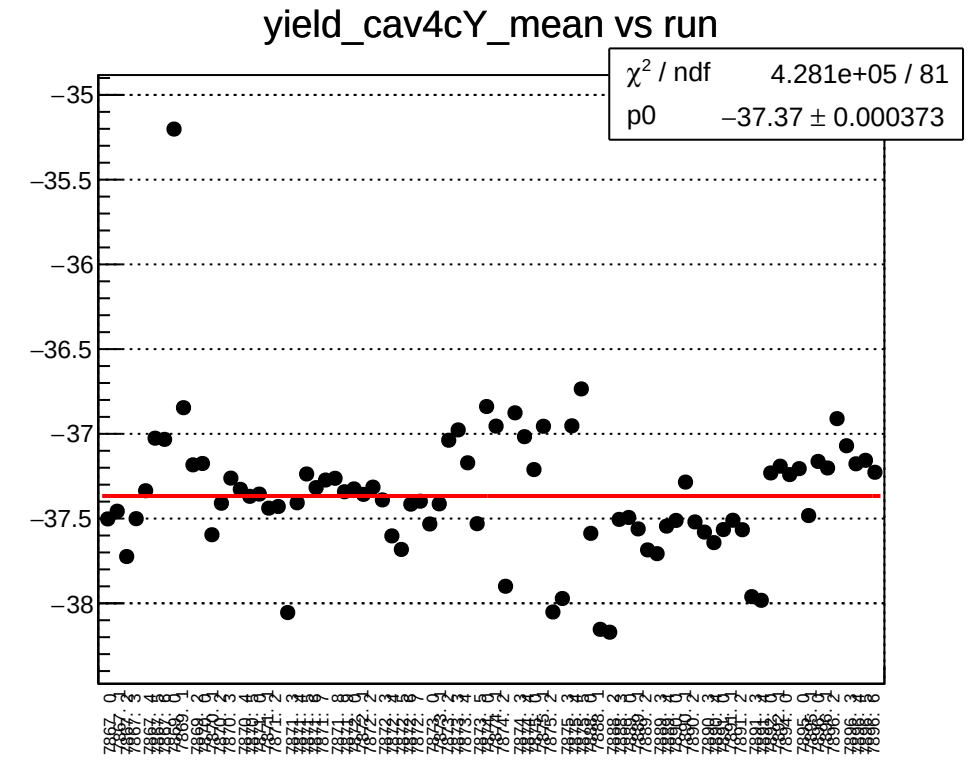

pull1D
Entries 82
Mean −3.49
Std Dev 3.662

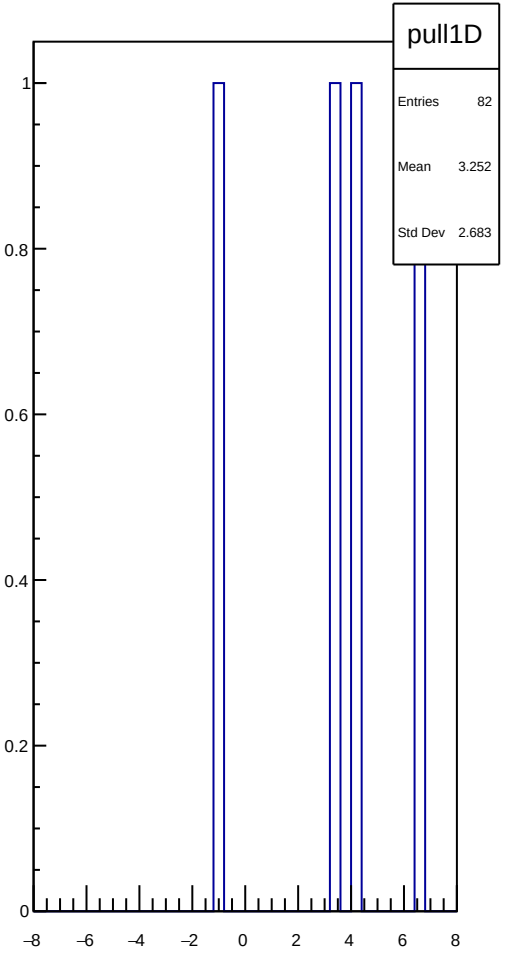

yield_cav4bY_rms vs run
χ2 / ndf 2.531e+05 / 81
p0 0.7944 ± 0.0006765
5
4
3
2
1

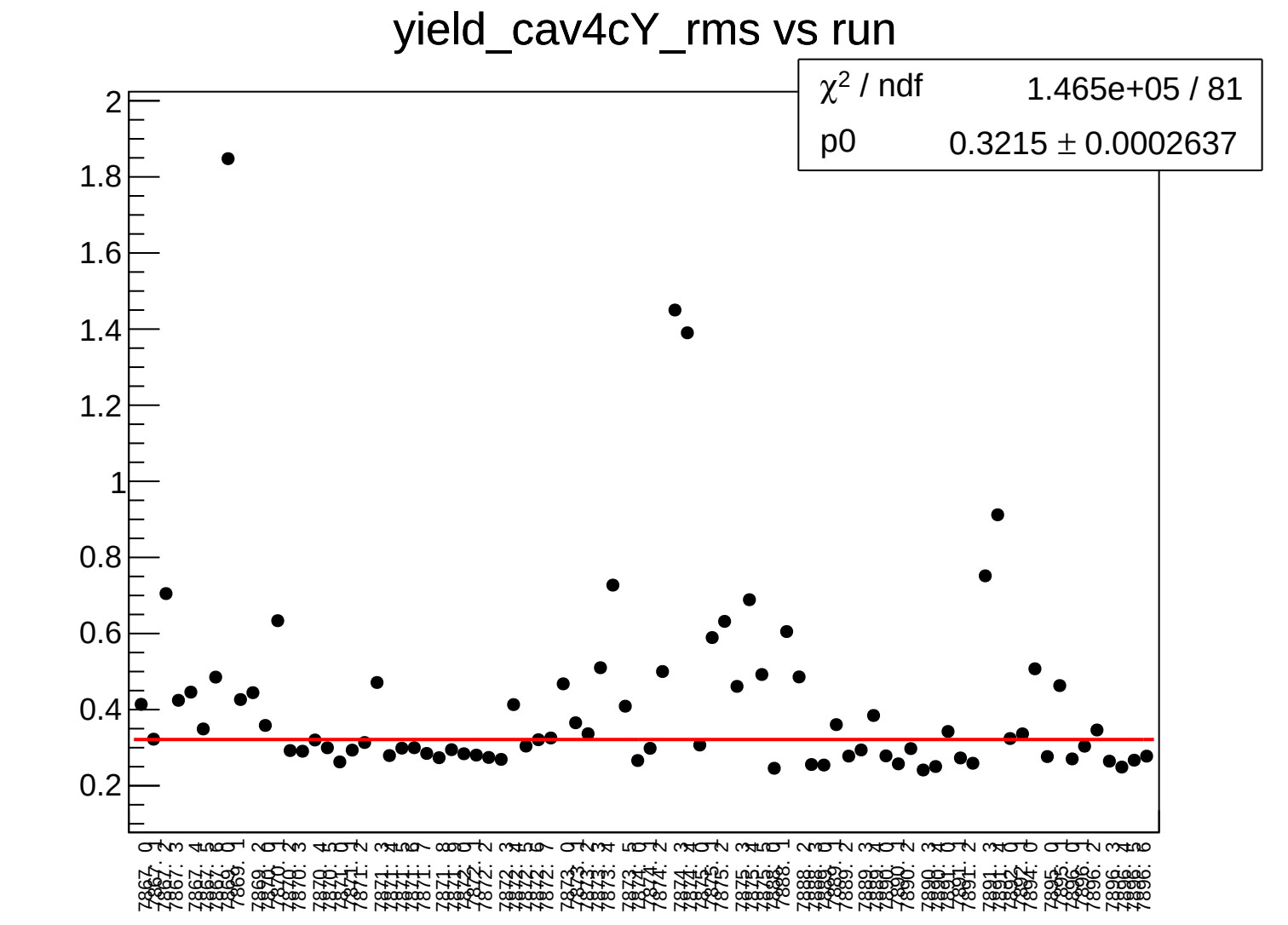

yield_cav4cX_mean vs run
χ² / ndf 6.419e+04 / 81
p0 1.321± 0.002187
pull
Entries 82
Mean −48.54
Std Dev 0

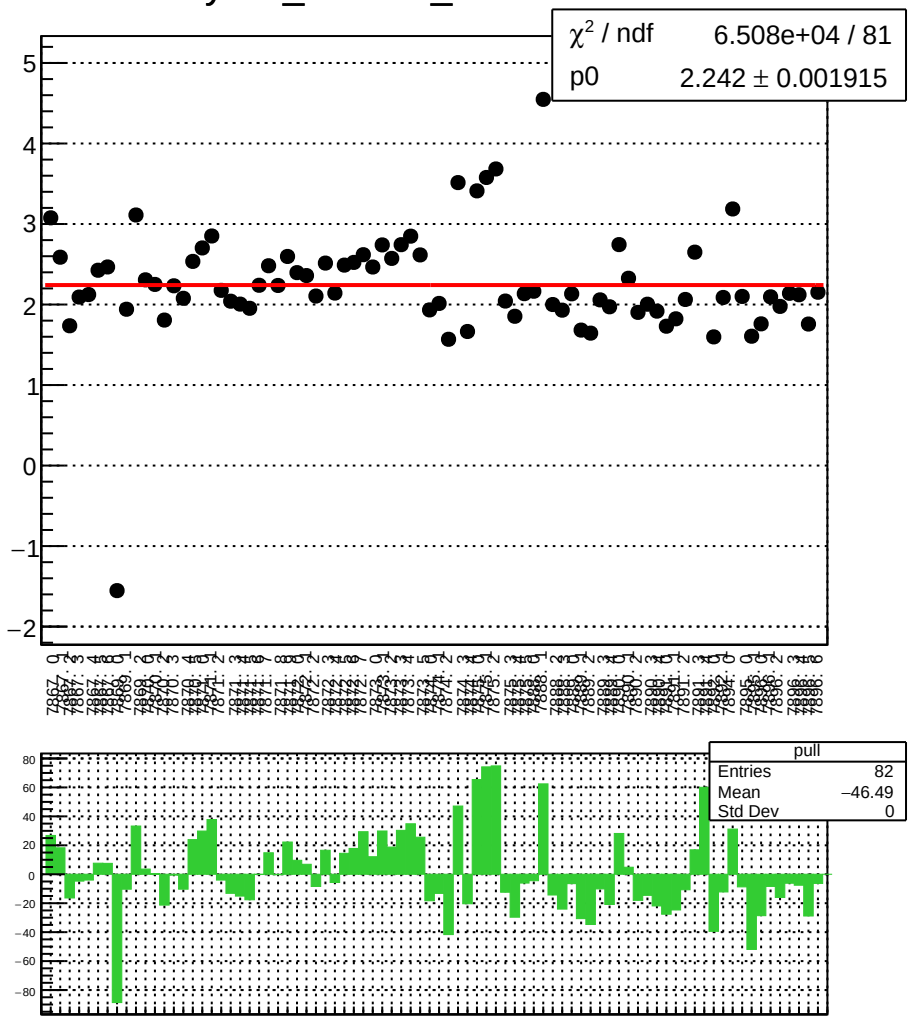

pull1D
Entries 82
Mean −0.8961
Std Dev 5.169

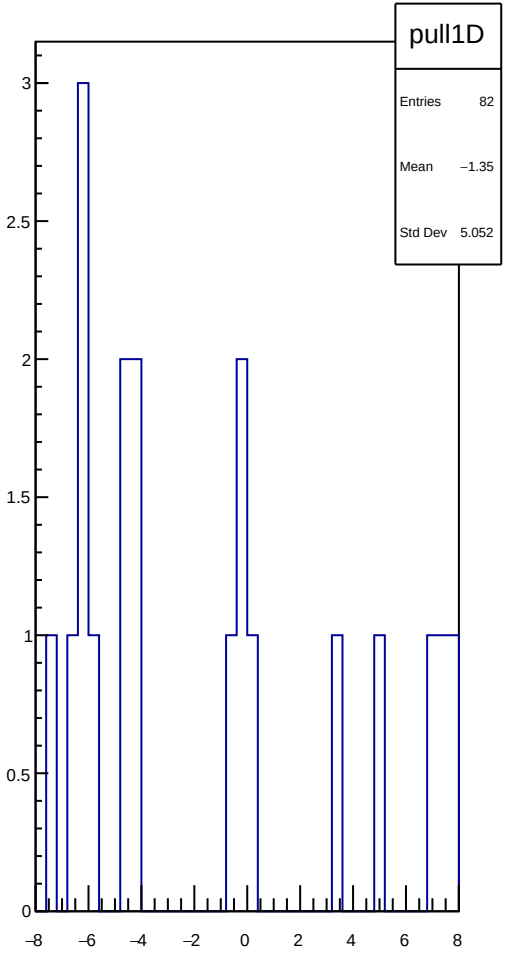

yield_cav4cX_rms vs run
χ^2 / ndf 7.378e+04 / 81
p0 1.93 ± 0.001546
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1

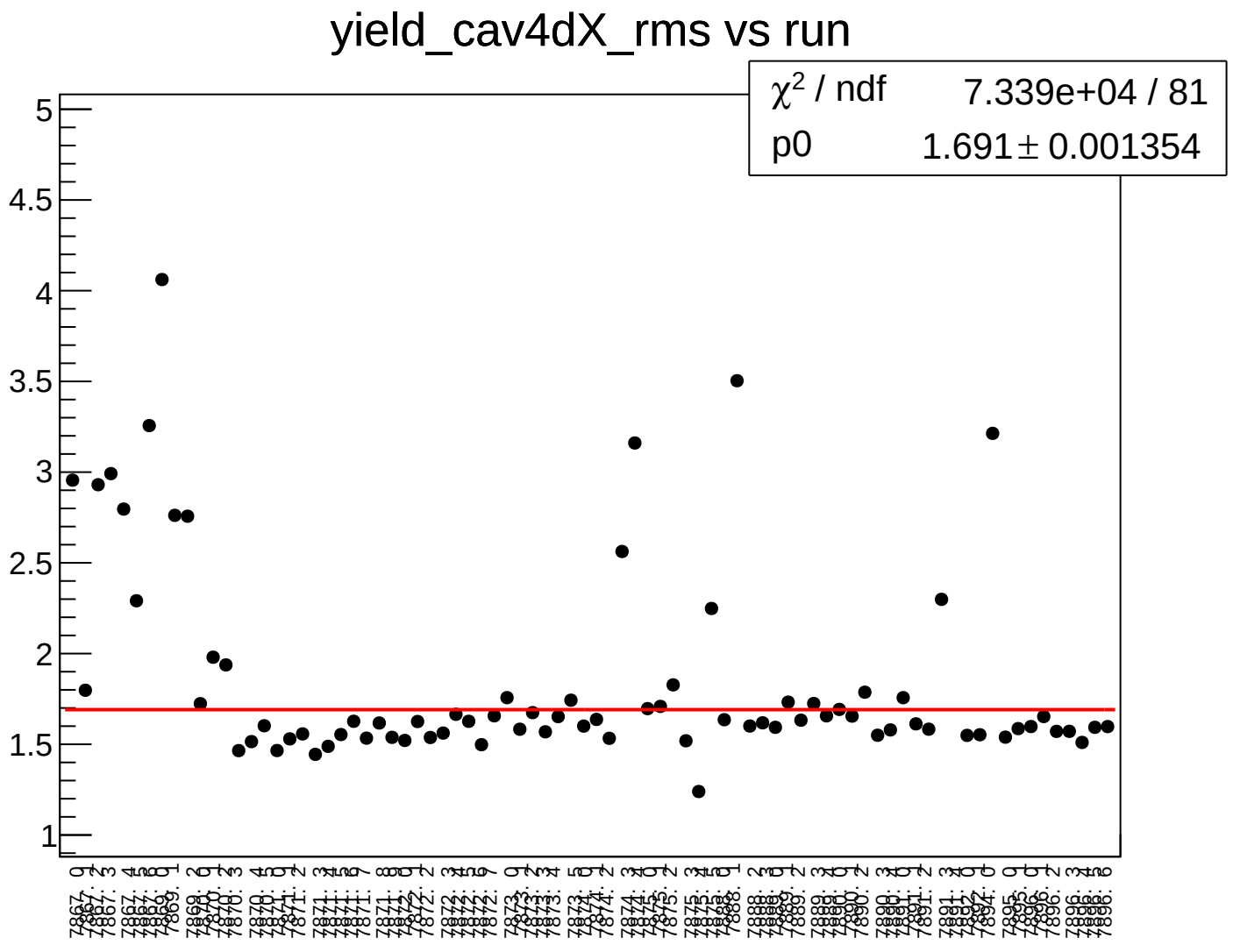

yield_cav4cY_mean vs run
χ² / ndf 4.281e+05 / 81
p0 −37.37 ± 0.000373
−35
−35.5
−36
−36.5
−37
−37.5
−38
pull
Entries 82
Mean 169.2
Std Dev 0
200
150
100
50
0
−50
−100
−150

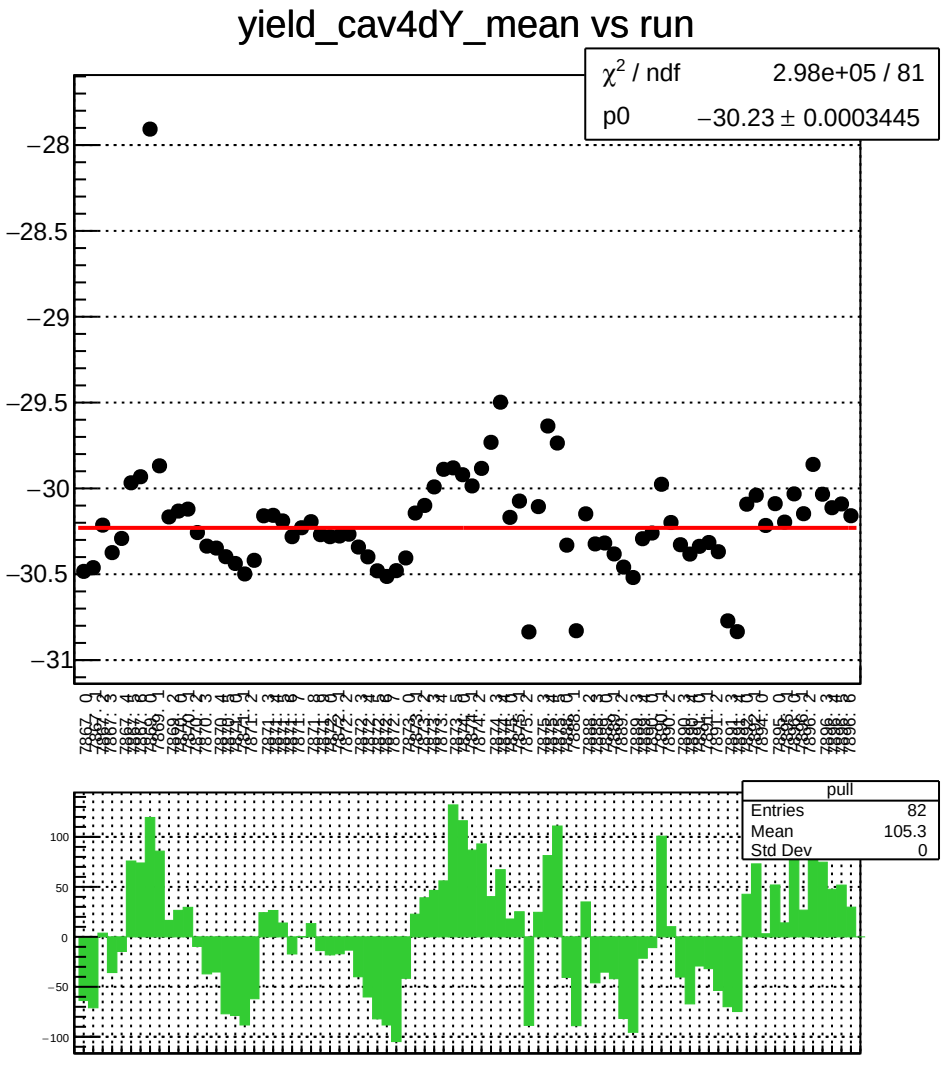

pull1D
Entries 82
Mean 3.252
Std Dev 2.683
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

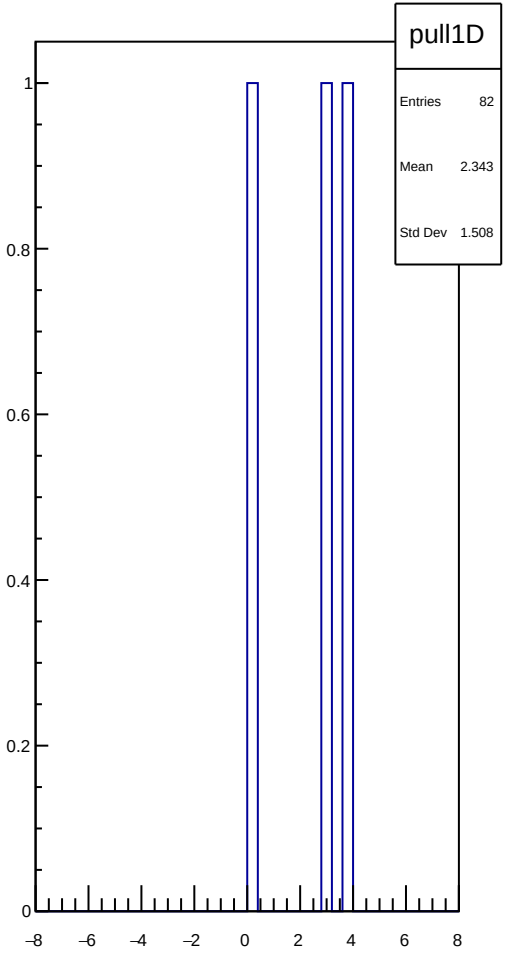

yield_cav4cY_rms vs run
χ² / ndf 1.465e+05 / 81
p0 0.3215 ± 0.0002637
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

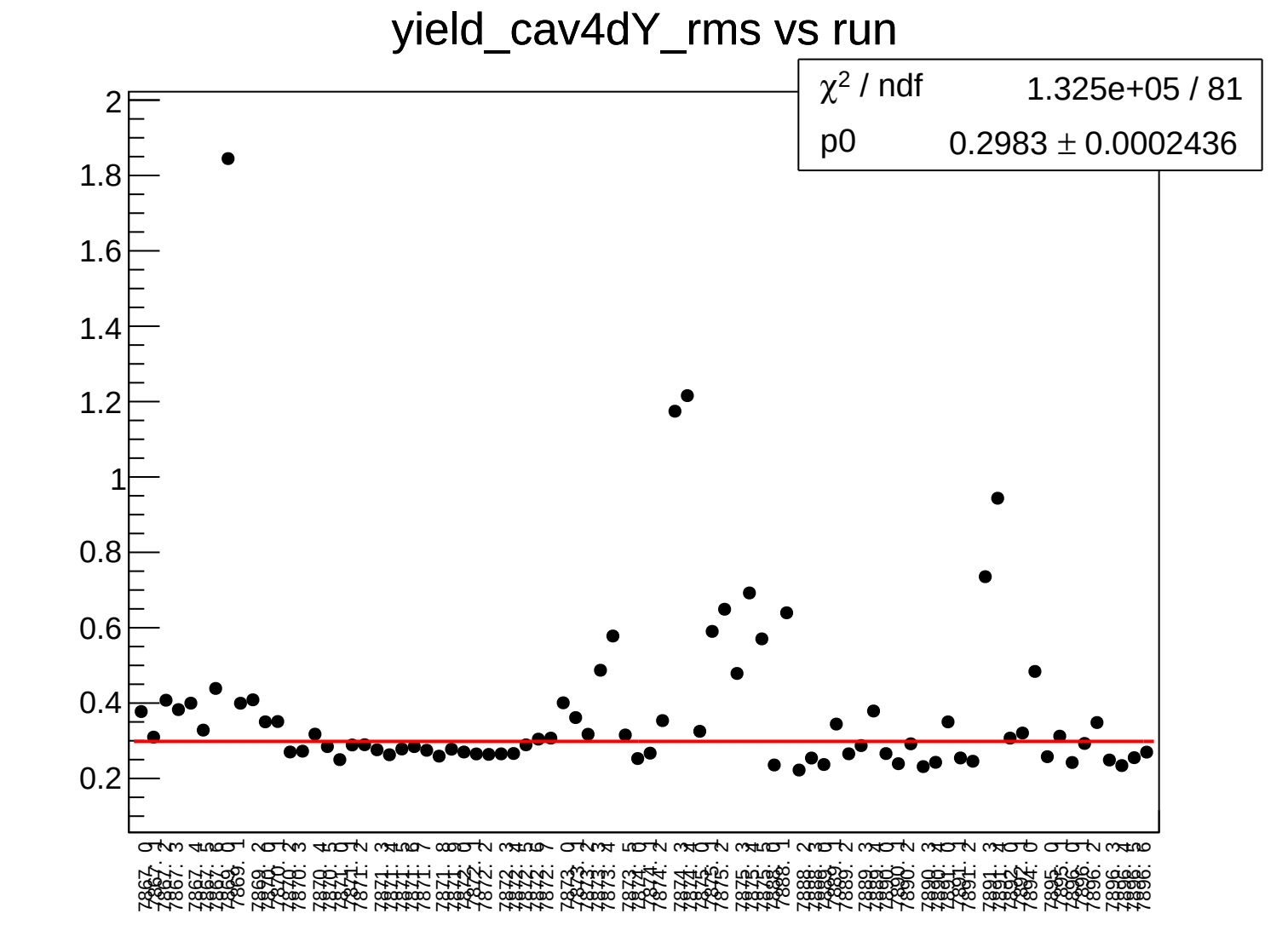

yield_cav4dX_mean vs run
χ² / ndf 6.508e+04 / 81
p0 2.242 ± 0.001915
pull
Entries 82
Mean −46.49
Std Dev 0

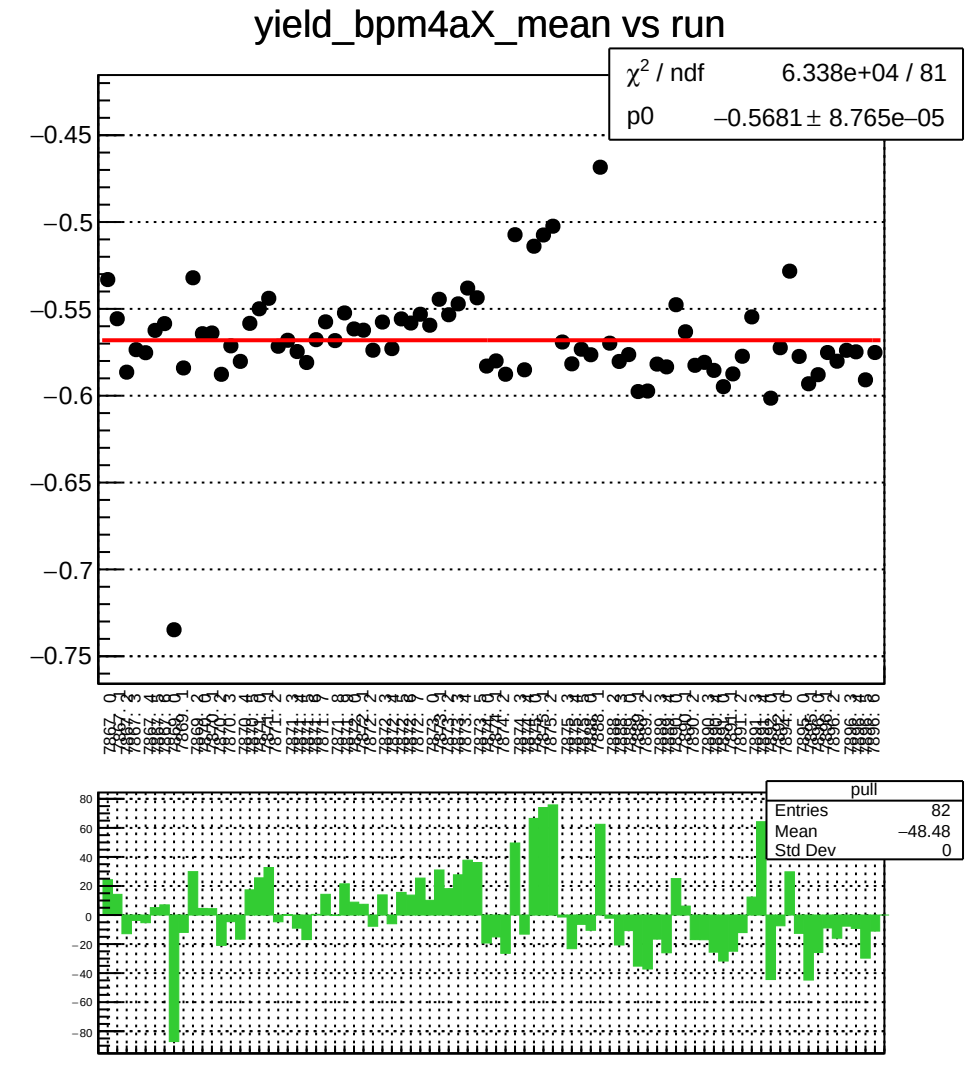

pull1D
Entries 82
Mean −1.35
Std Dev 5.052

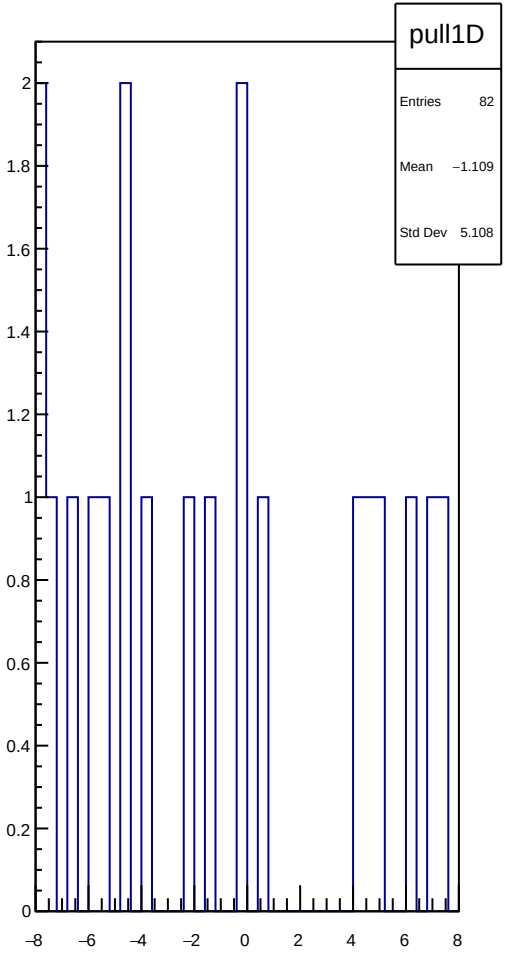

yield_cav4dX_rms vs run
χ^2 / ndf 7.339e+04 / 81
p0 1.691 ± 0.001354
5
4.5
4
3.5
3
2.5
2
1.5
1

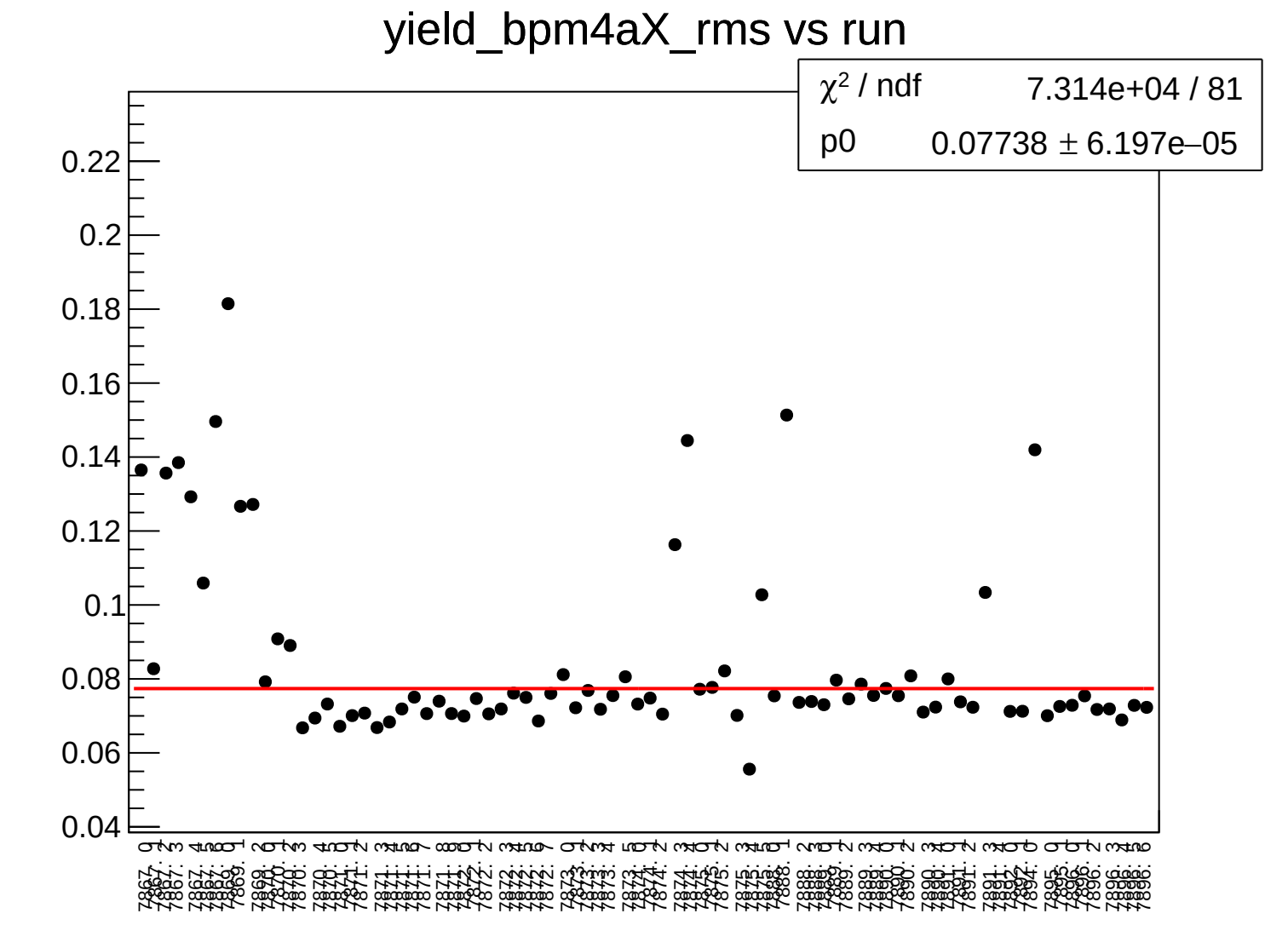

yield_cav4dY_mean vs run
χ² / ndf 2.98e+05 / 81
p0 −30.23 ± 0.0003445
−28
−28.5
−29
−29.5
−30
−30.5
−31
pull
Entries 82
Mean 105.3
Std Dev 0
100
50
0
−50
−100

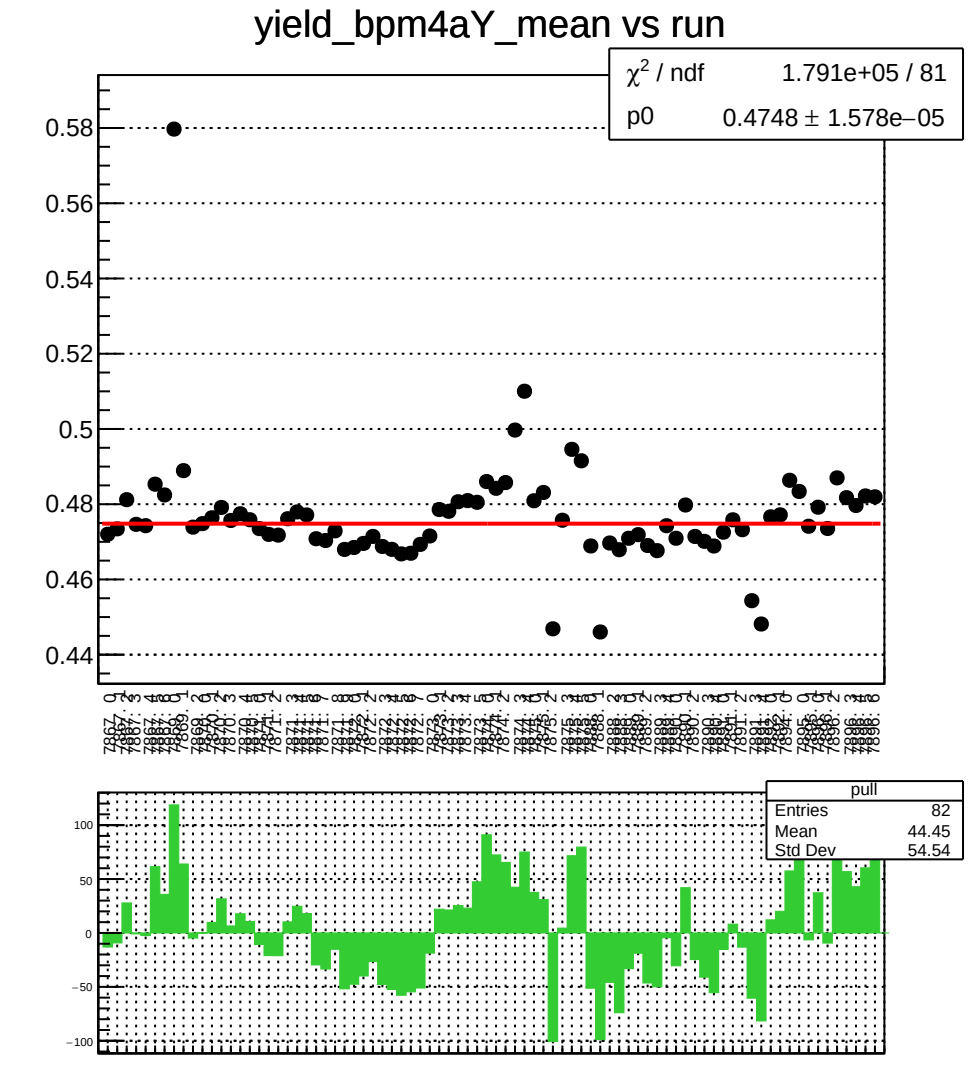

pull1D
Entries 82
Mean 2.343
Std Dev 1.508
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

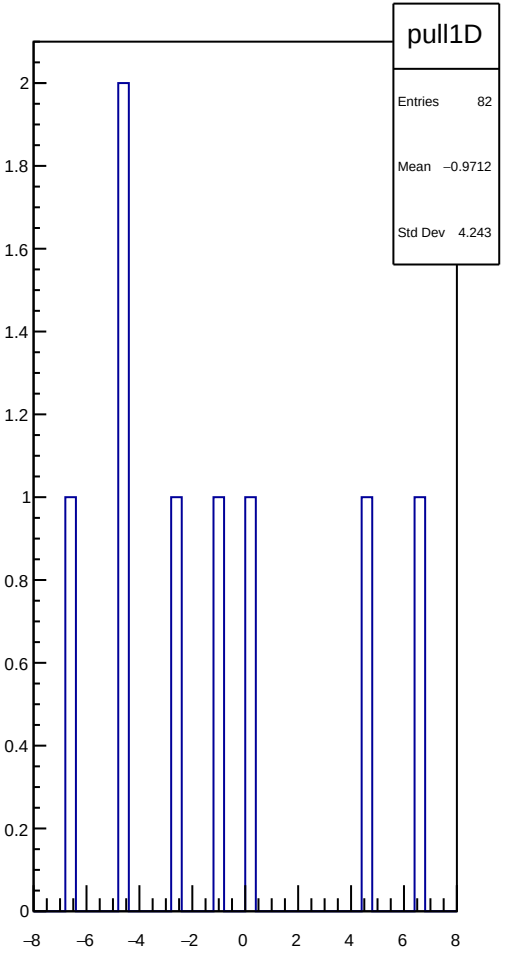

yield_cav4dY_rms vs run
χ² / ndf 1.325e+05 / 81
p0 0.2983 ± 0.0002436
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

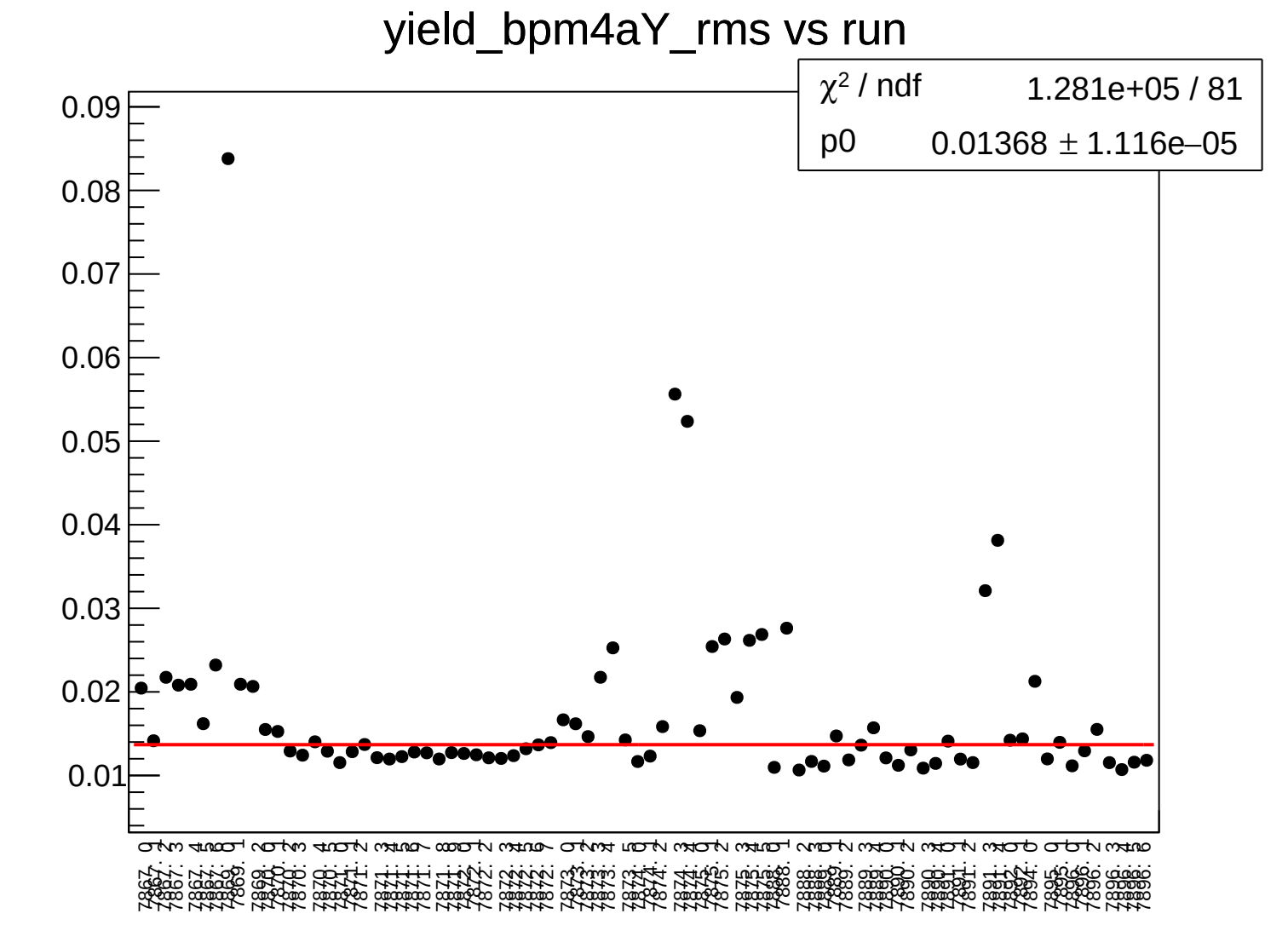

yield_bpm4aX_mean vs run
χ² / ndf 6.338e+04 / 81
p0 −0.5681 ± 8.765e−05
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 82
Mean −48.48
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

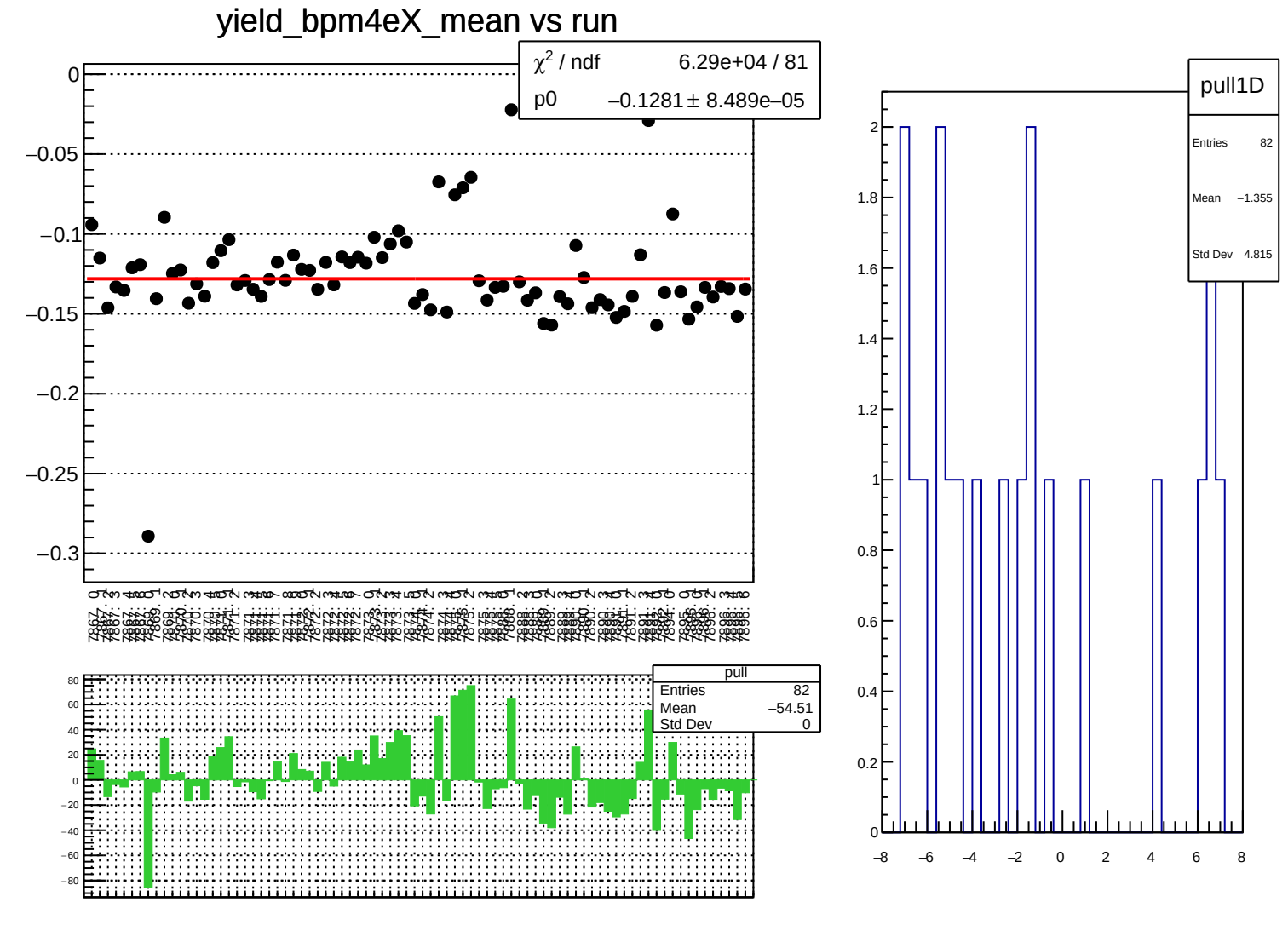

pull1D
Entries 82
Mean −1.109
Std Dev 5.108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

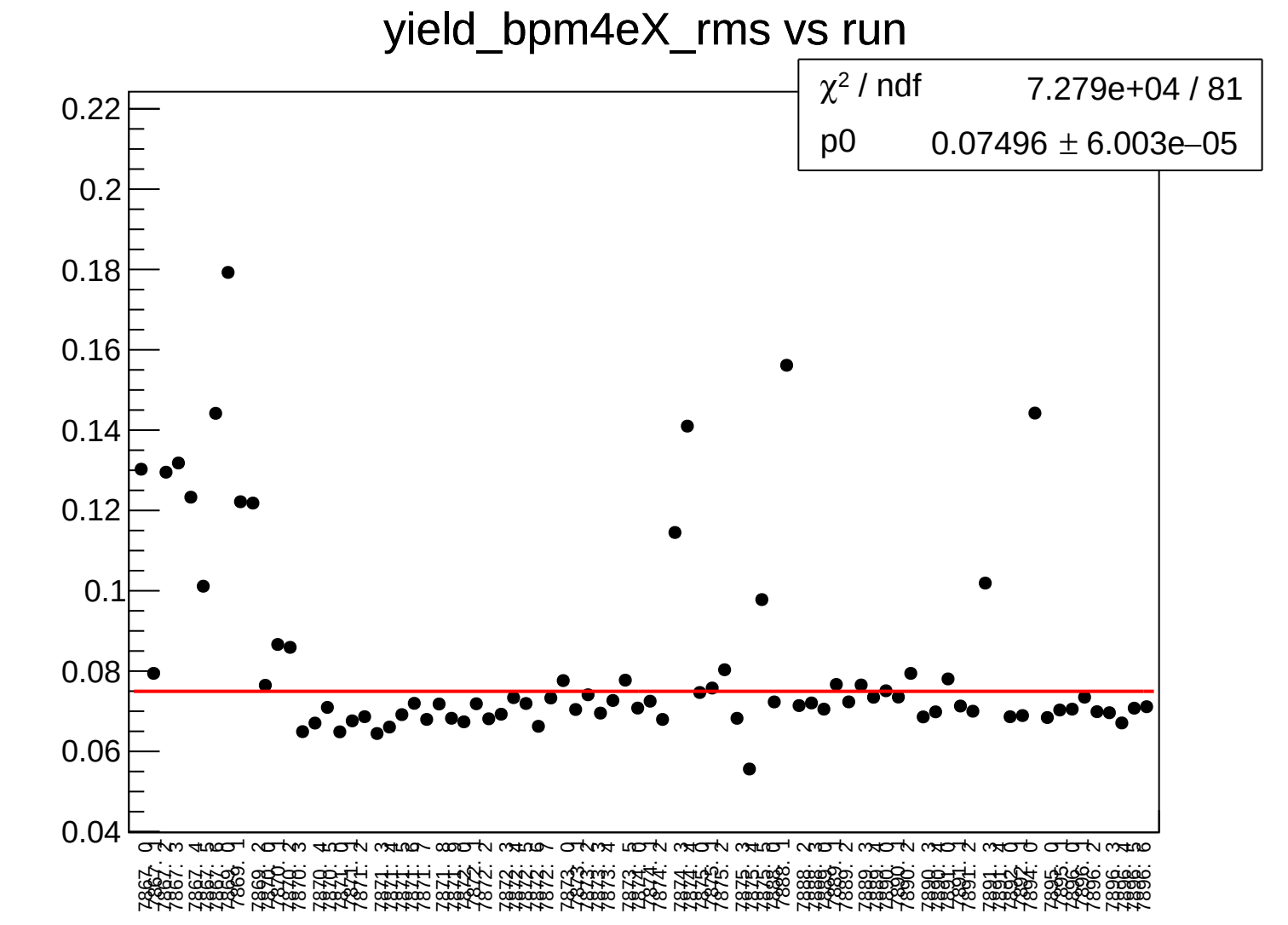

yield_bpm4aX_rms vs run
χ² / ndf 7.314e+04 / 81
p0 0.07738 ± 6.197e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

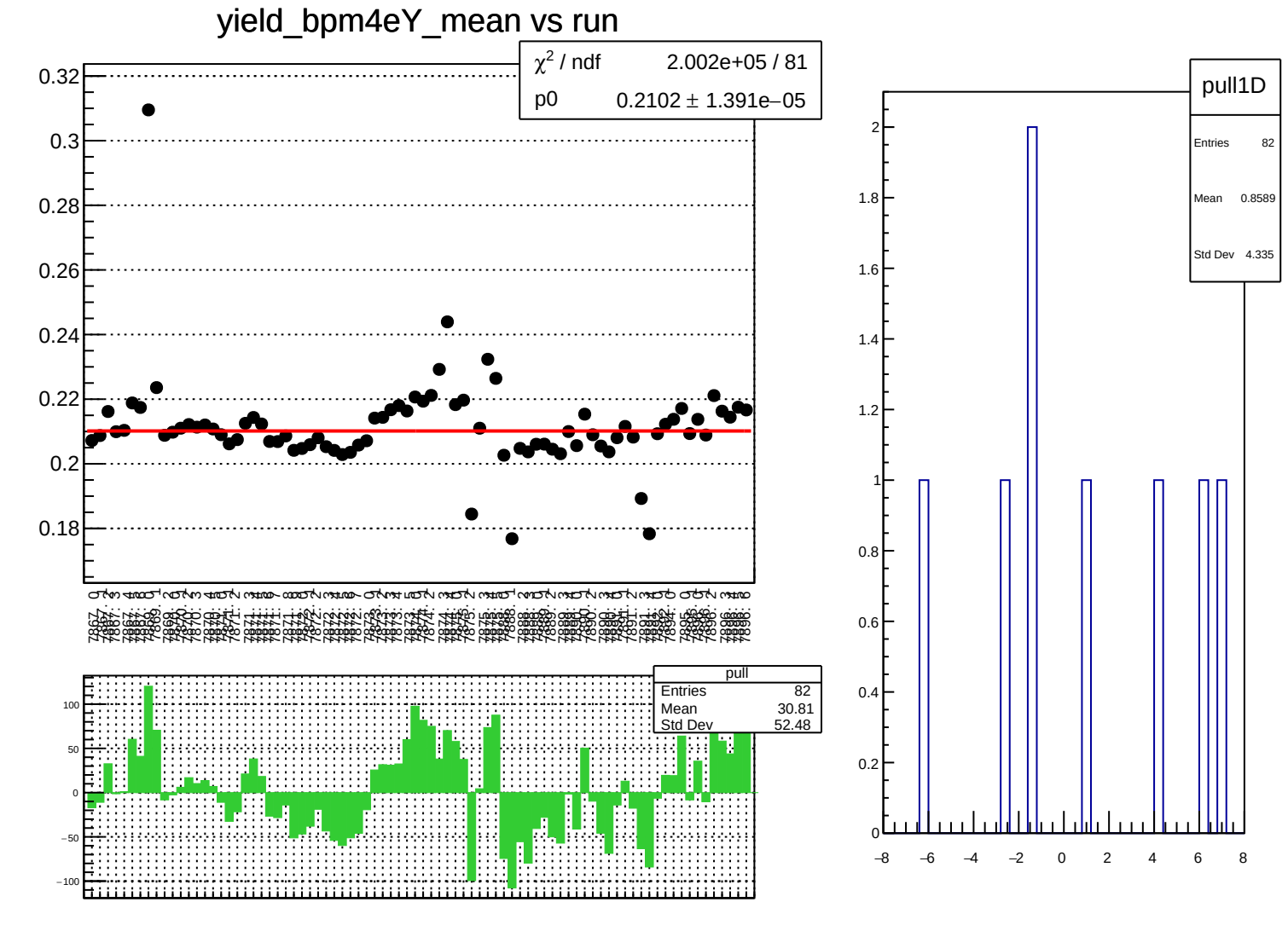

yield_bpm4aY_mean vs run
χ² / ndf 1.791e+05 / 81
p0 0.4748 ± 1.578e−05
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44
pull
Entries 82
Mean 44.45
Std Dev 54.54
100
50
0
−50
−100

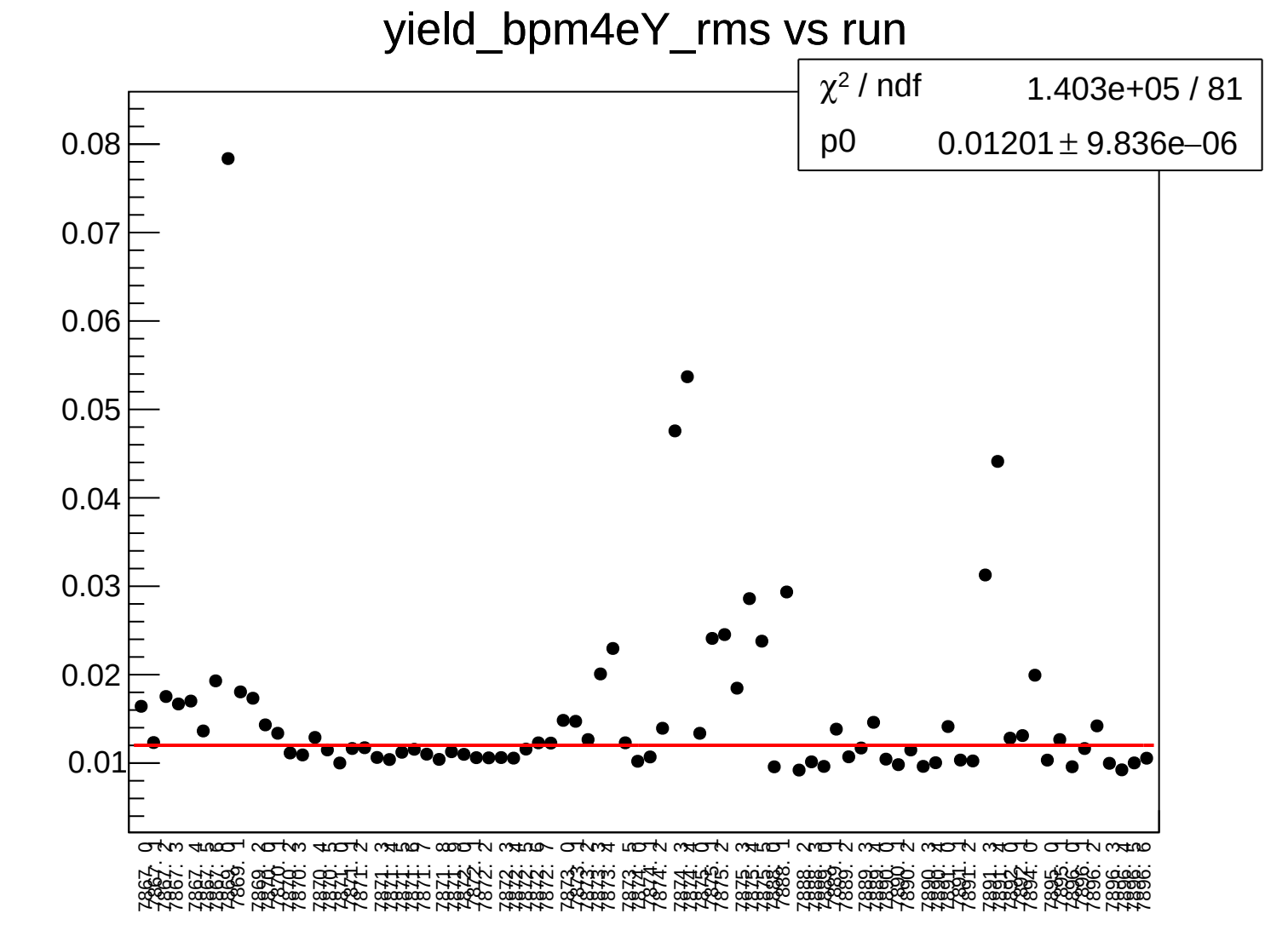

pull1D
Entries 82
Mean −0.9712
Std Dev 4.243
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

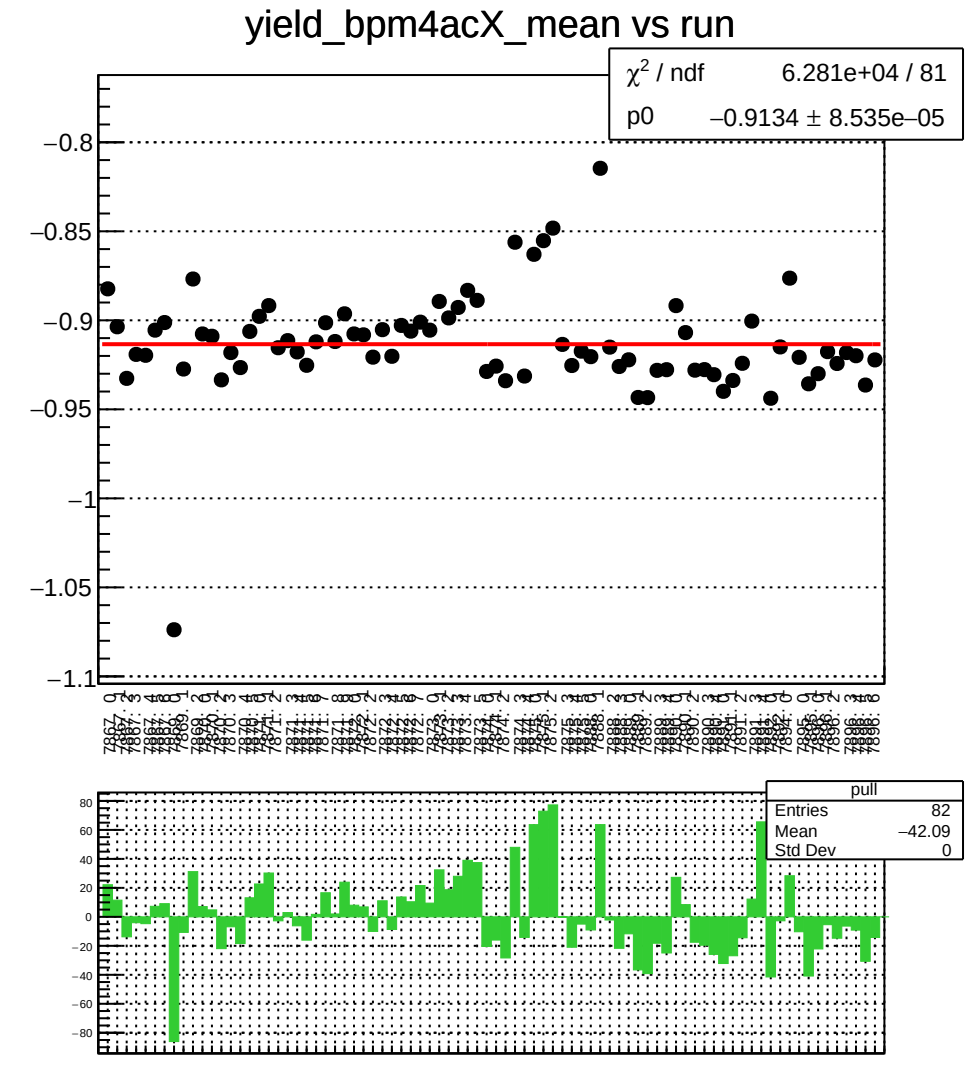

yield_bpm4aY_rms vs run
χ² / ndf 1.281e+05 / 81
p0 0.01368 ± 1.116e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

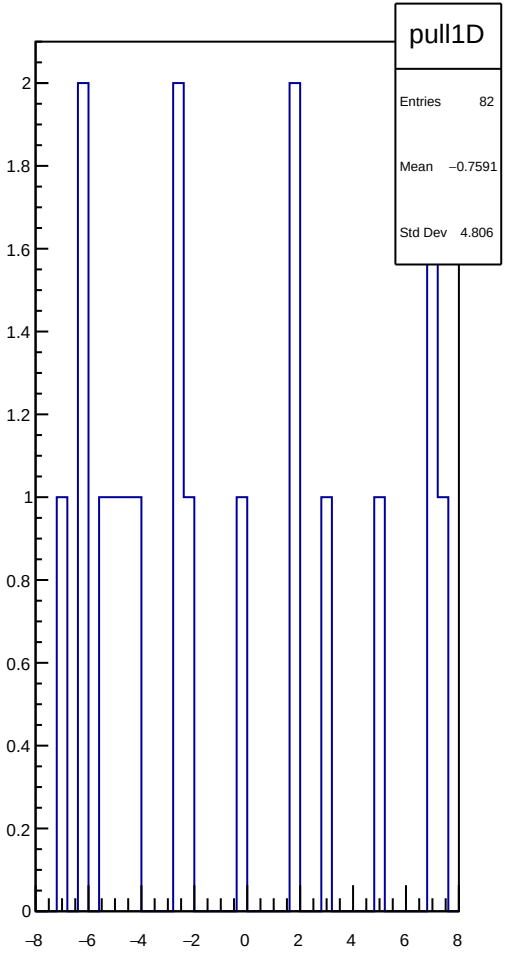

yield_bpm4eX_mean vs run
χ² / ndf 6.29e+04 / 81
p0 −0.1281 ± 8.489e−05
pull
Entries 82
Mean −54.51
Std Dev 0
pull1D
Entries 82
Mean −1.355
Std Dev 4.815

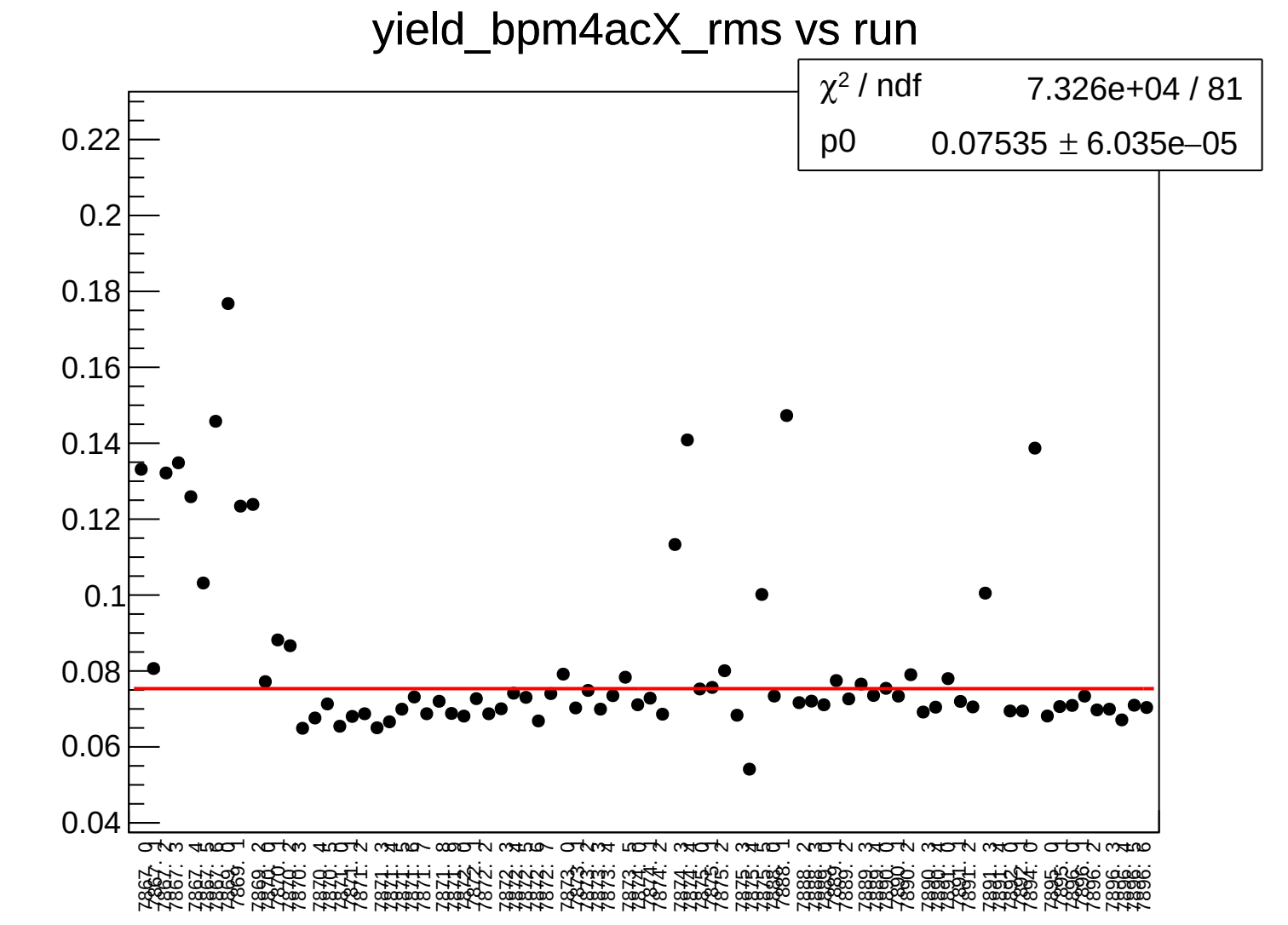

yield_bpm4eX_rms vs run
χ² / ndf 7.279e+04 / 81
p0 0.07496 ± 6.003e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

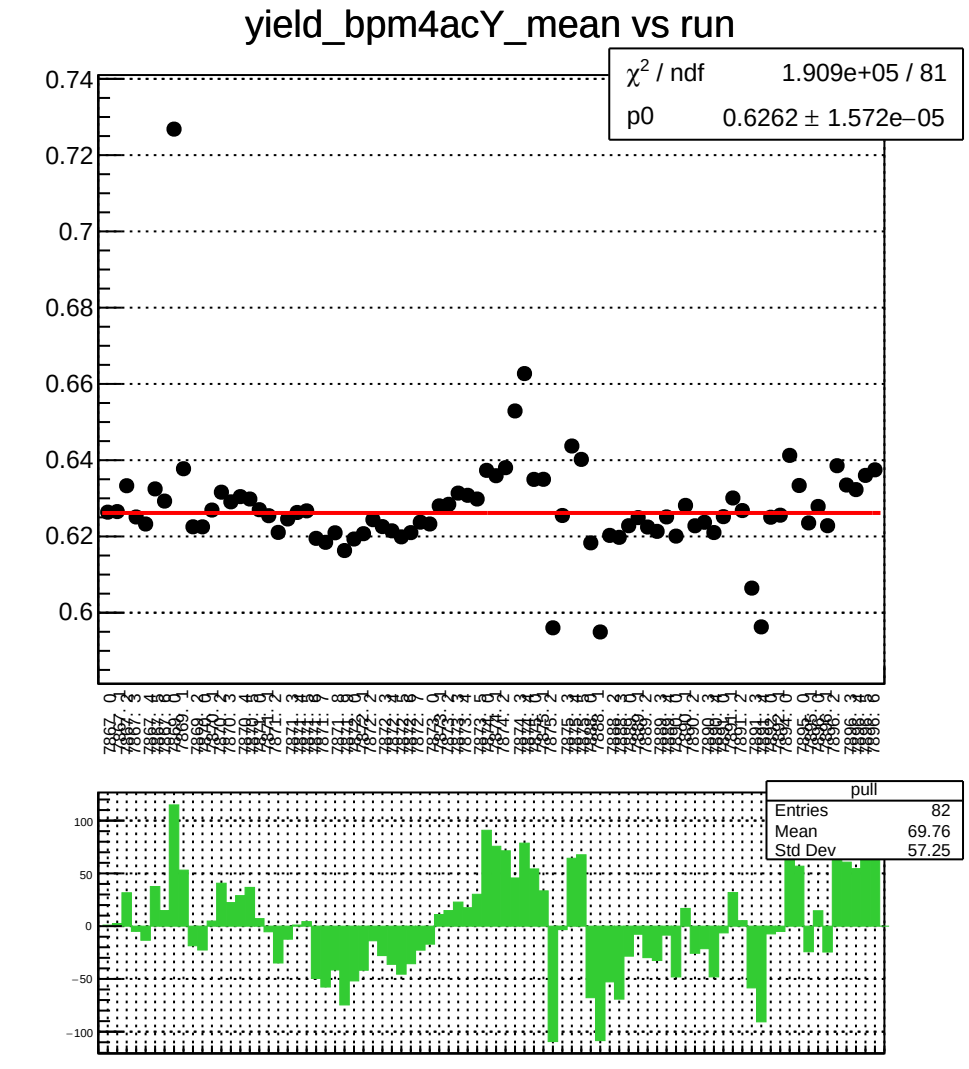

yield_bpm4eY_mean vs run
χ² / ndf 2.002e+05 / 81
p0 0.2102 ± 1.391e−05
pull
Entries 82
Mean 30.81
Std Dev 52.48
pull1D
Entries 82
Mean 0.8589
Std Dev 4.335

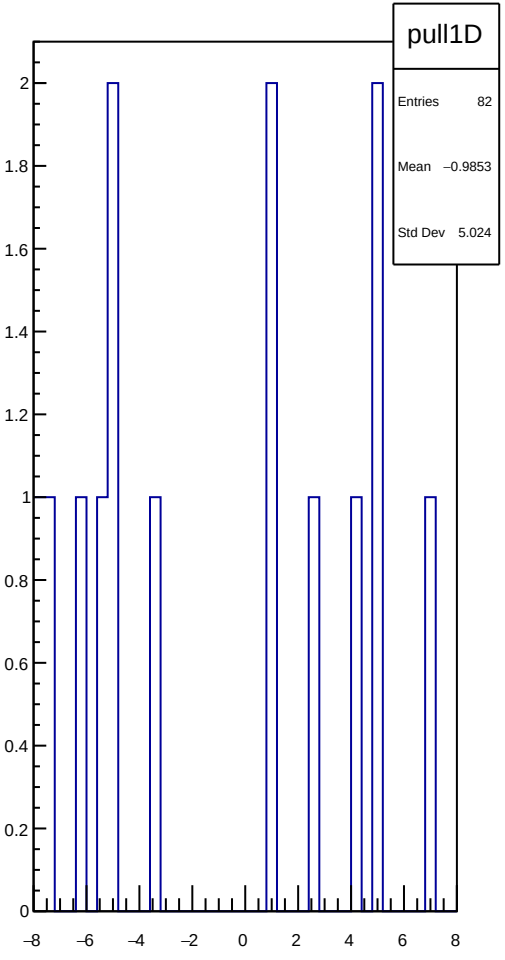

yield_bpm4eY_rms vs run
χ² / ndf 1.403e+05 / 81
p0 0.01201 ± 9.836e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

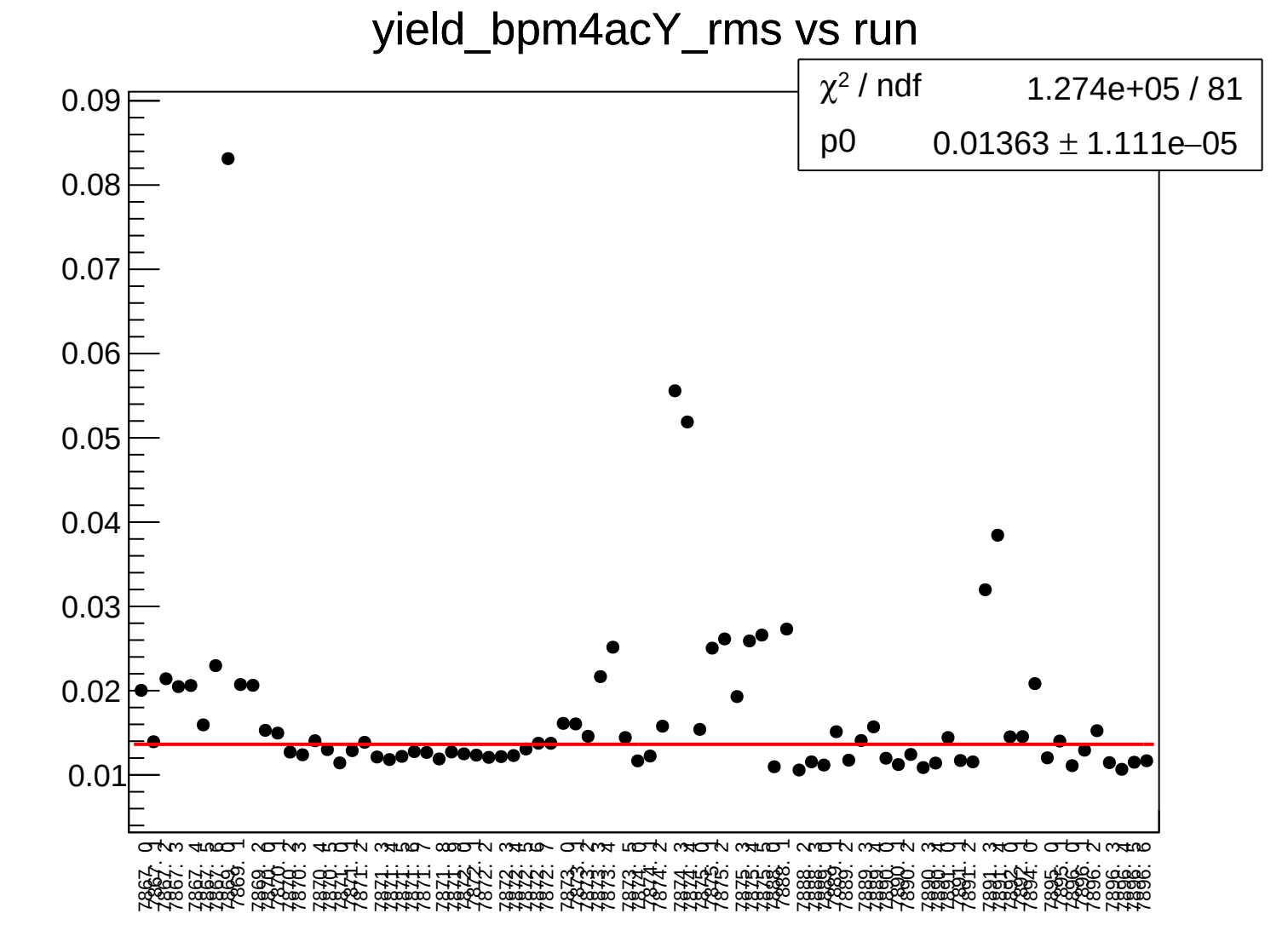

yield_bpm4acX_mean vs run
χ² / ndf 6.281e+04 / 81
p0 −0.9134 ± 8.535e−05
pull
Entries 82
Mean −42.09
Std Dev 0

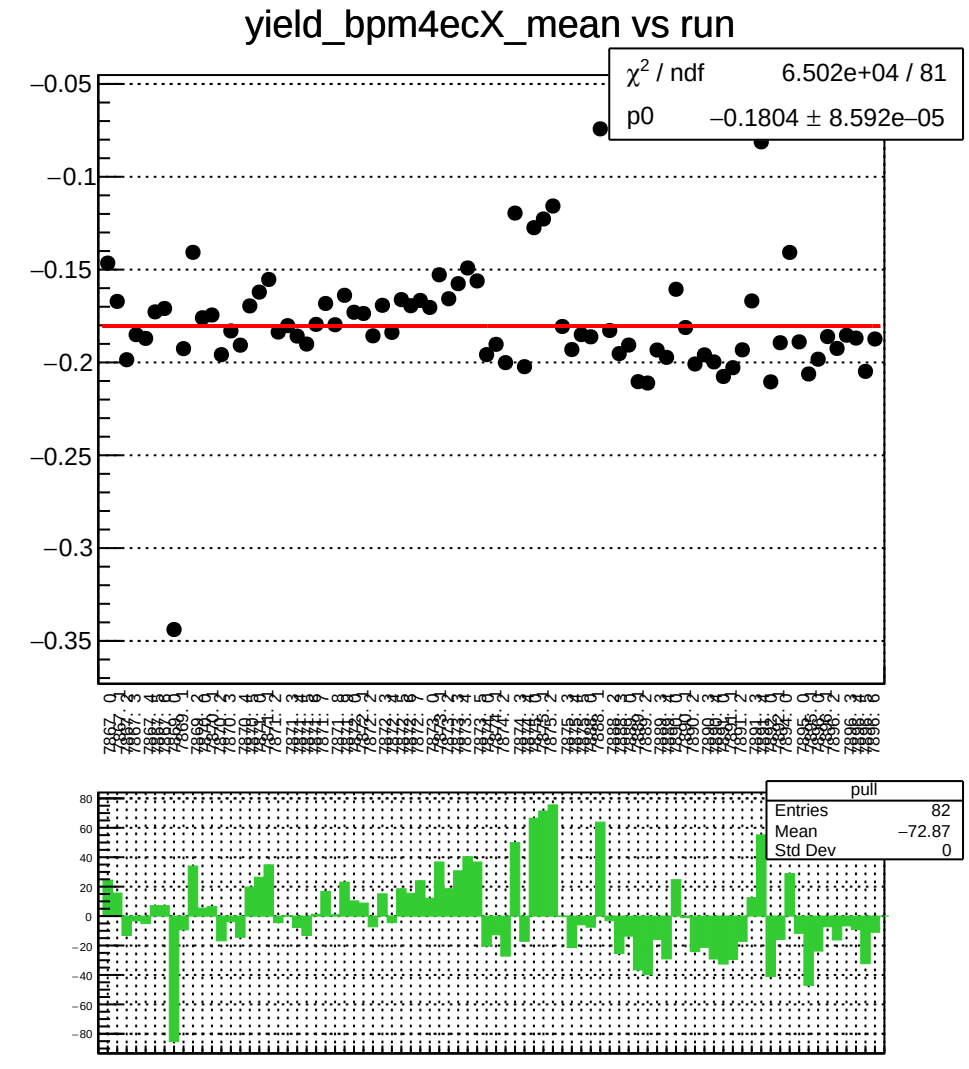

pull1D
Entries 82
Mean −0.7591
Std Dev 4.806

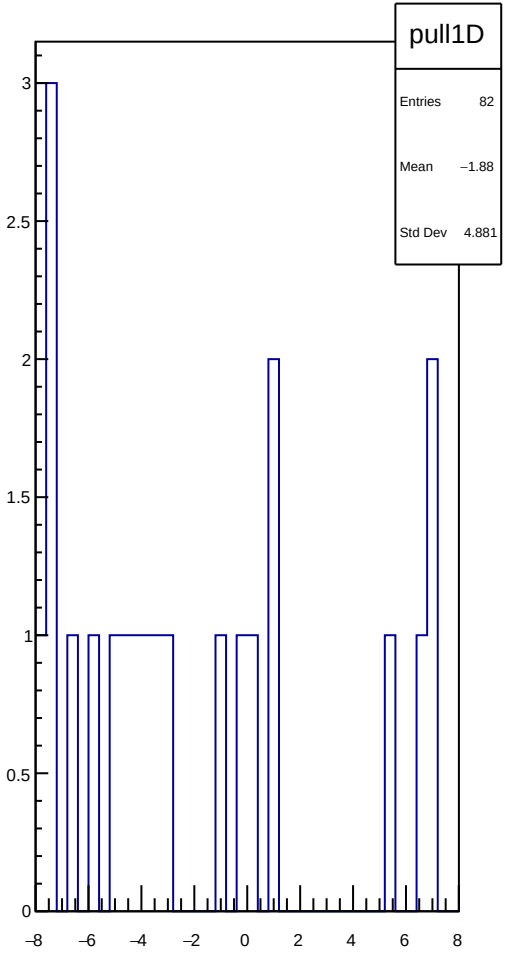

yield_bpm4acX_rms vs run
χ² / ndf 7.326e+04 / 81
p0 0.07535 ± 6.035e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

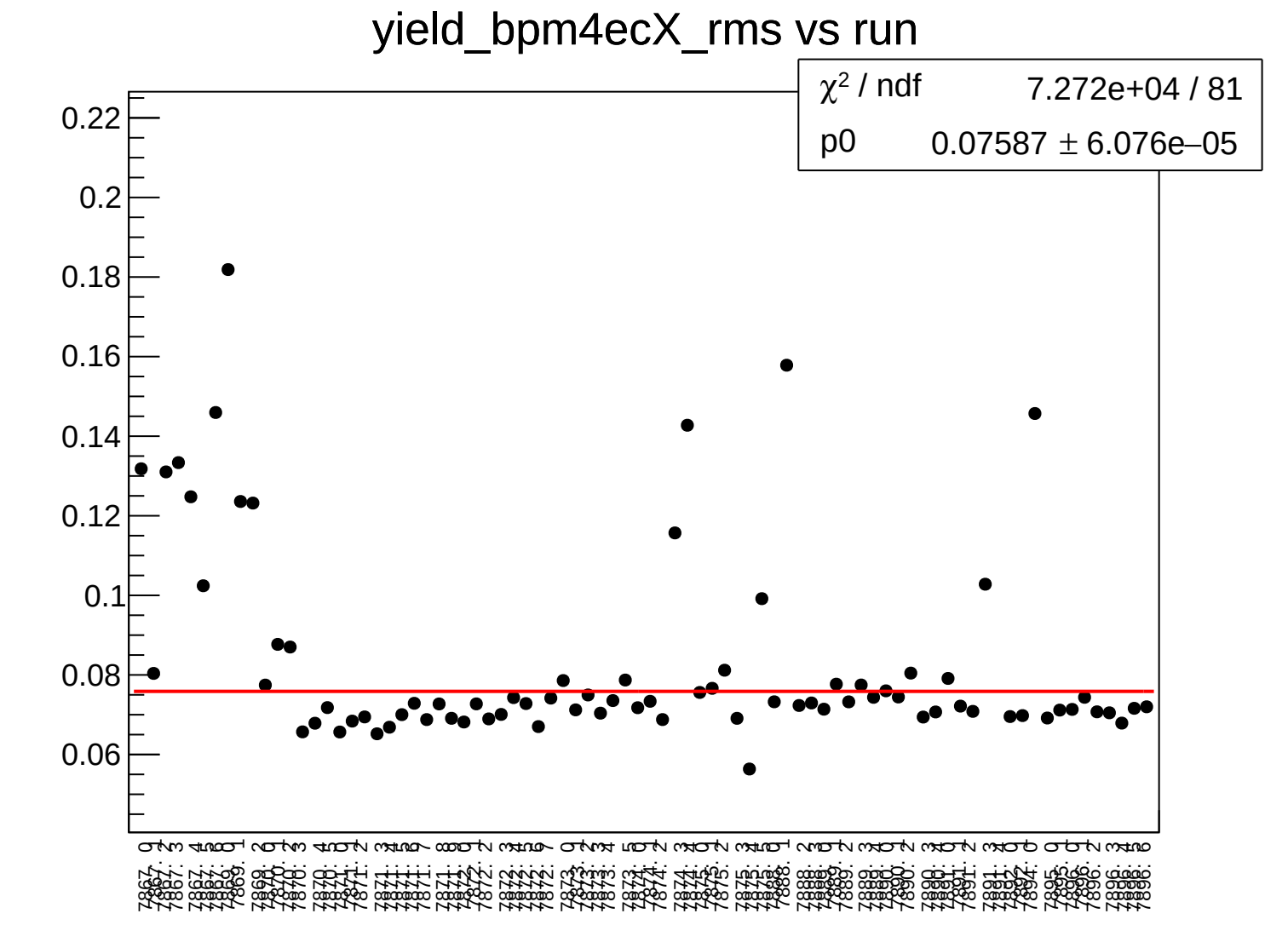

yield_bpm4acY_mean vs run
χ² / ndf 1.909e+05 / 81
p0 0.6262 ± 1.572e−05
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6
pull
Entries 82
Mean 69.76
Std Dev 57.25
100
50
0
−50
−100

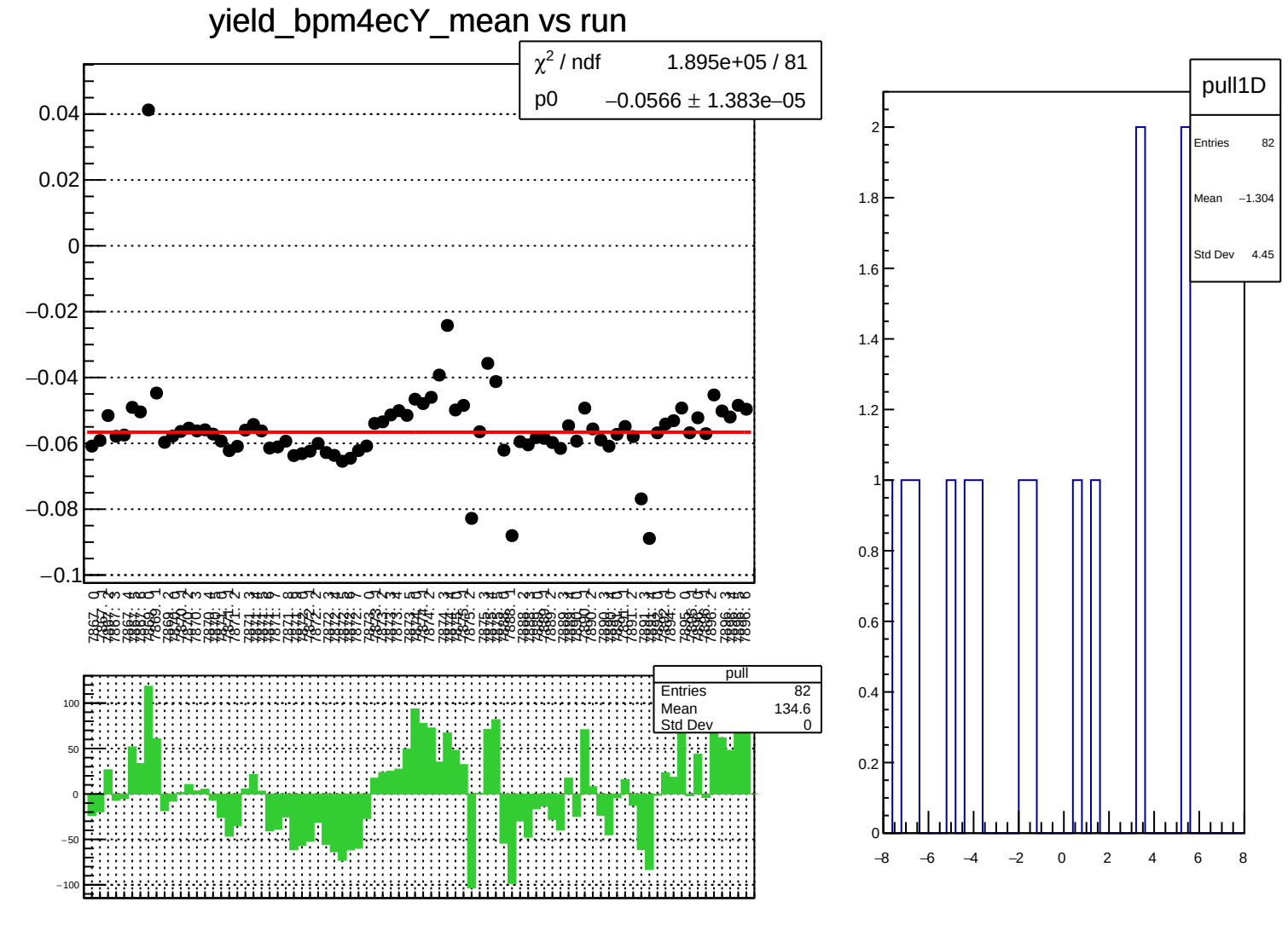

pull1D
Entries 82
Mean −0.9853
Std Dev 5.024
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

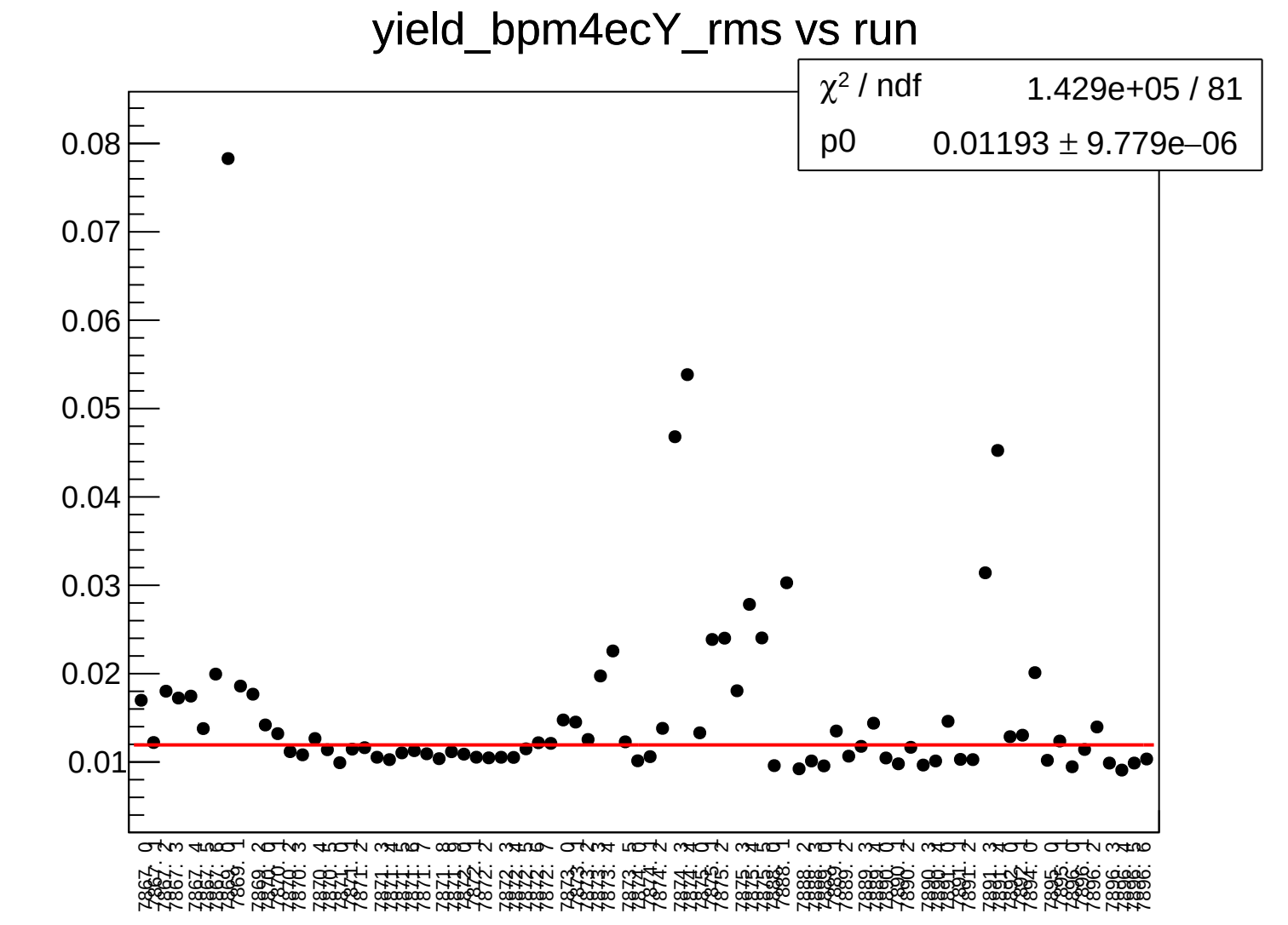

yield_bpm4acY_rms vs run
χ² / ndf 1.274e+05 / 81
p0 0.01363 ± 1.111e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

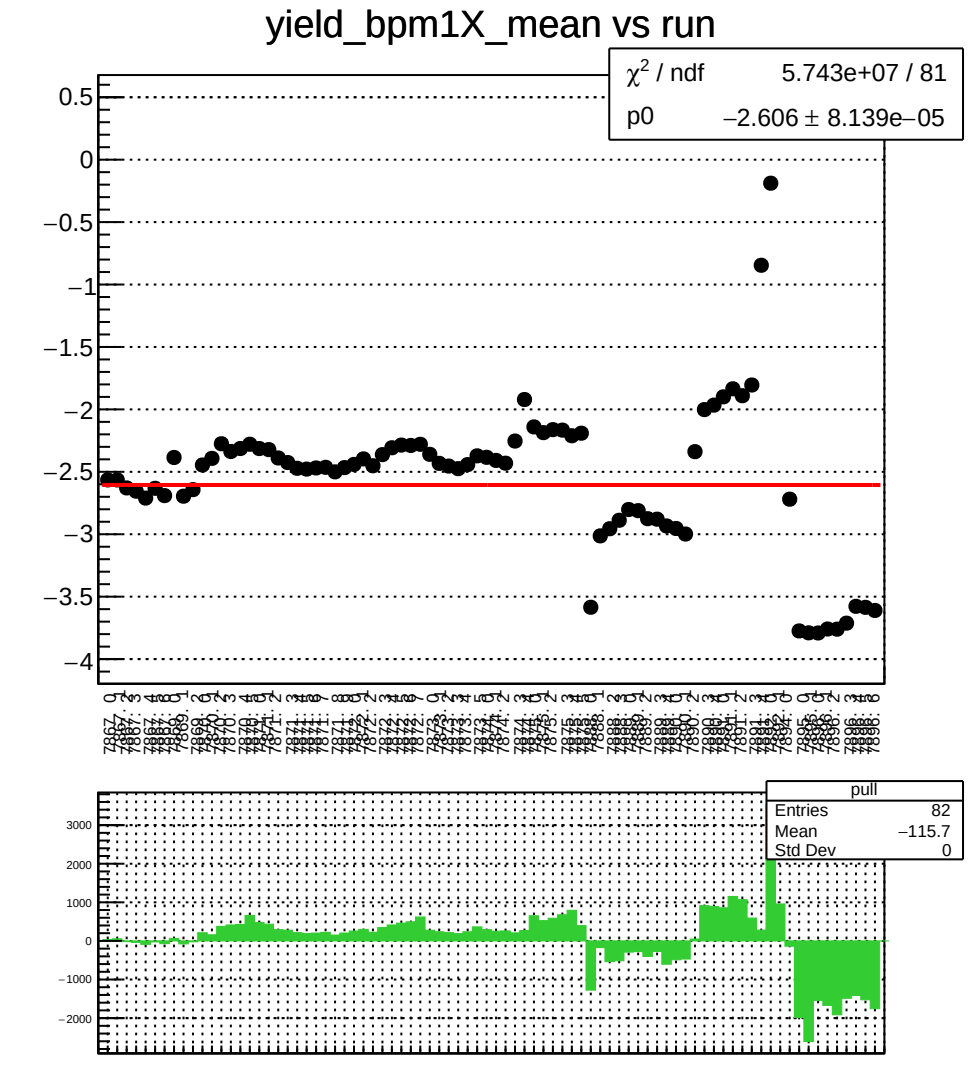

yield_bpm4ecX_mean vs run
χ² / ndf 6.502e+04 / 81
p0 −0.1804 ± 8.592e−05
pull
Entries 82
Mean −72.87
Std Dev 0

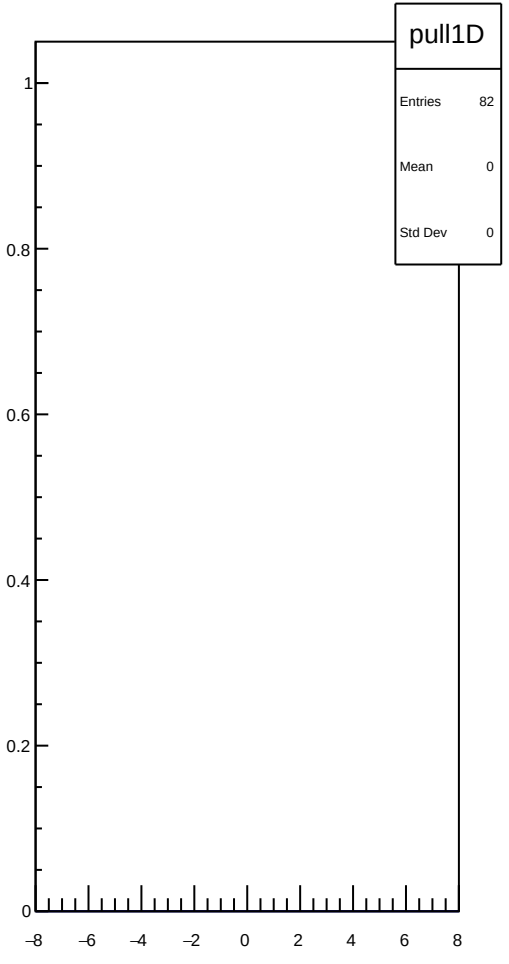

pull1D
Entries 82
Mean −1.88
Std Dev 4.881

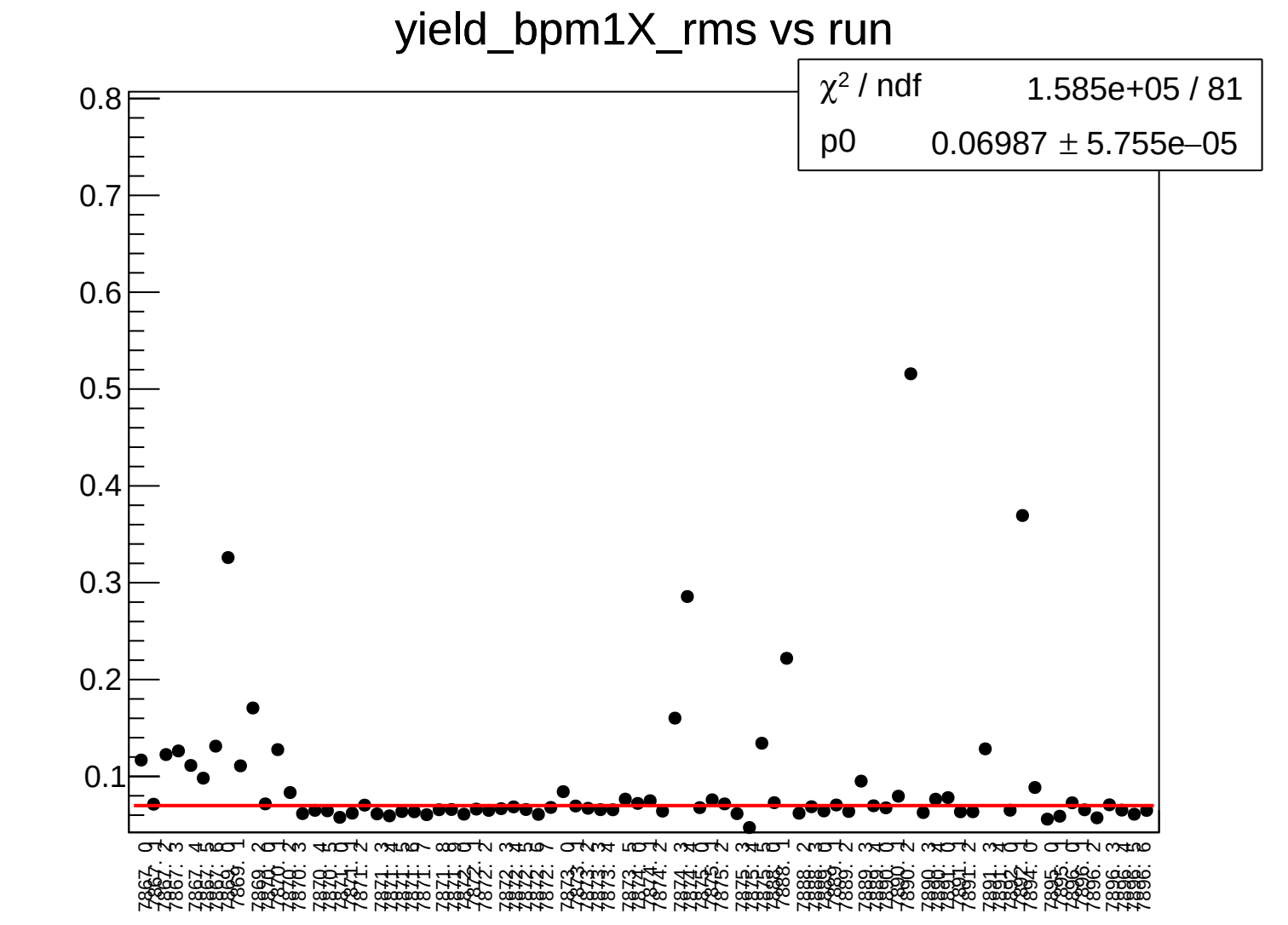

yield_bpm4ecX_rms vs run
χ² / ndf 7.272e+04 / 81
p0 0.07587 ± 6.076e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

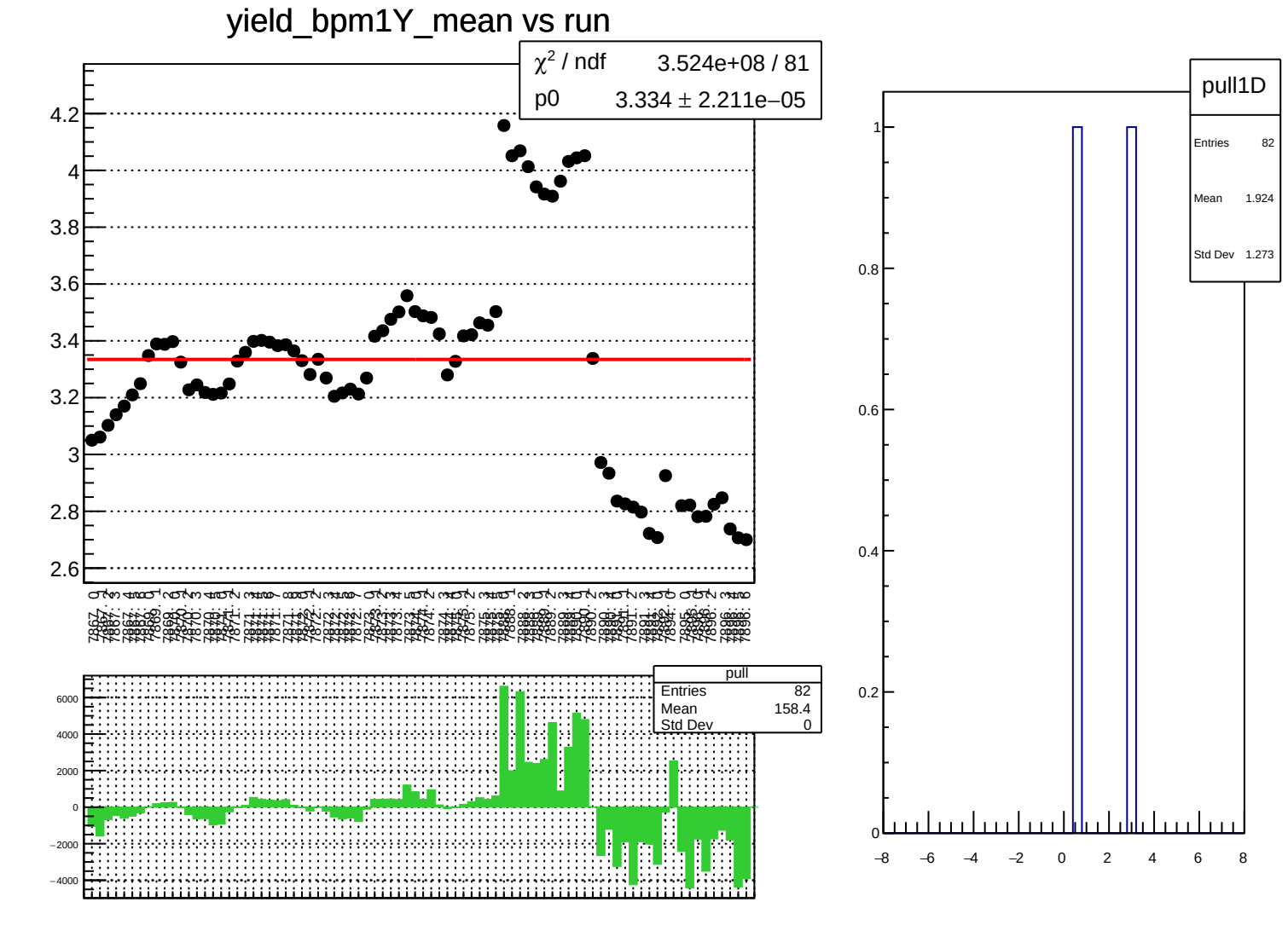

yield_bpm4ecY_mean vs run
χ² / ndf 1.895e+05 / 81
p0 −0.0566 ± 1.383e−05
pull
Entries 82
Mean 134.6
Std Dev 0
pull1D
Entries 82
Mean −1.304
Std Dev 4.45

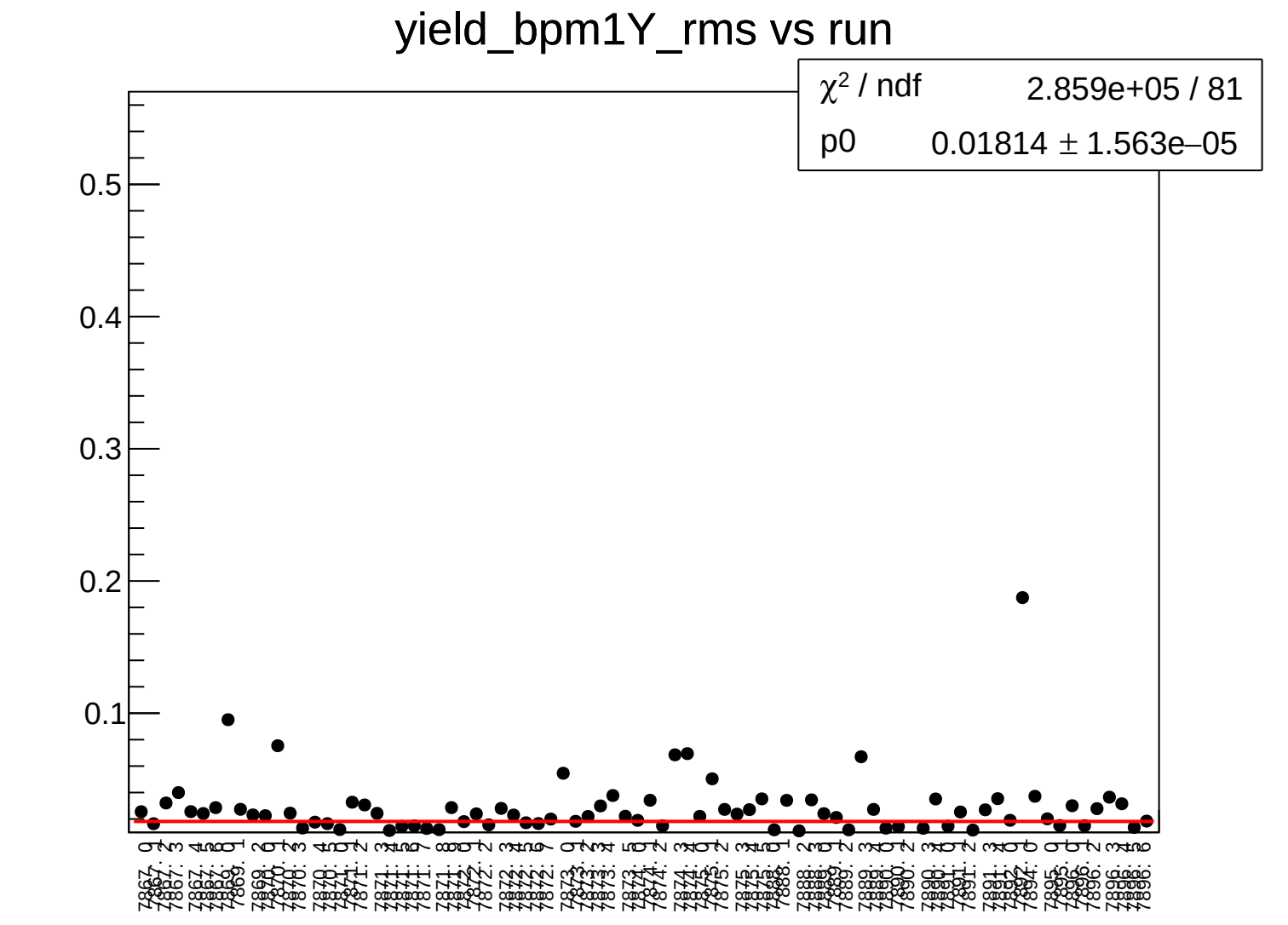

yield_bpm4ecY_rms vs run
χ² / ndf 1.429e+05 / 81
p0 0.01193 ± 9.779e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

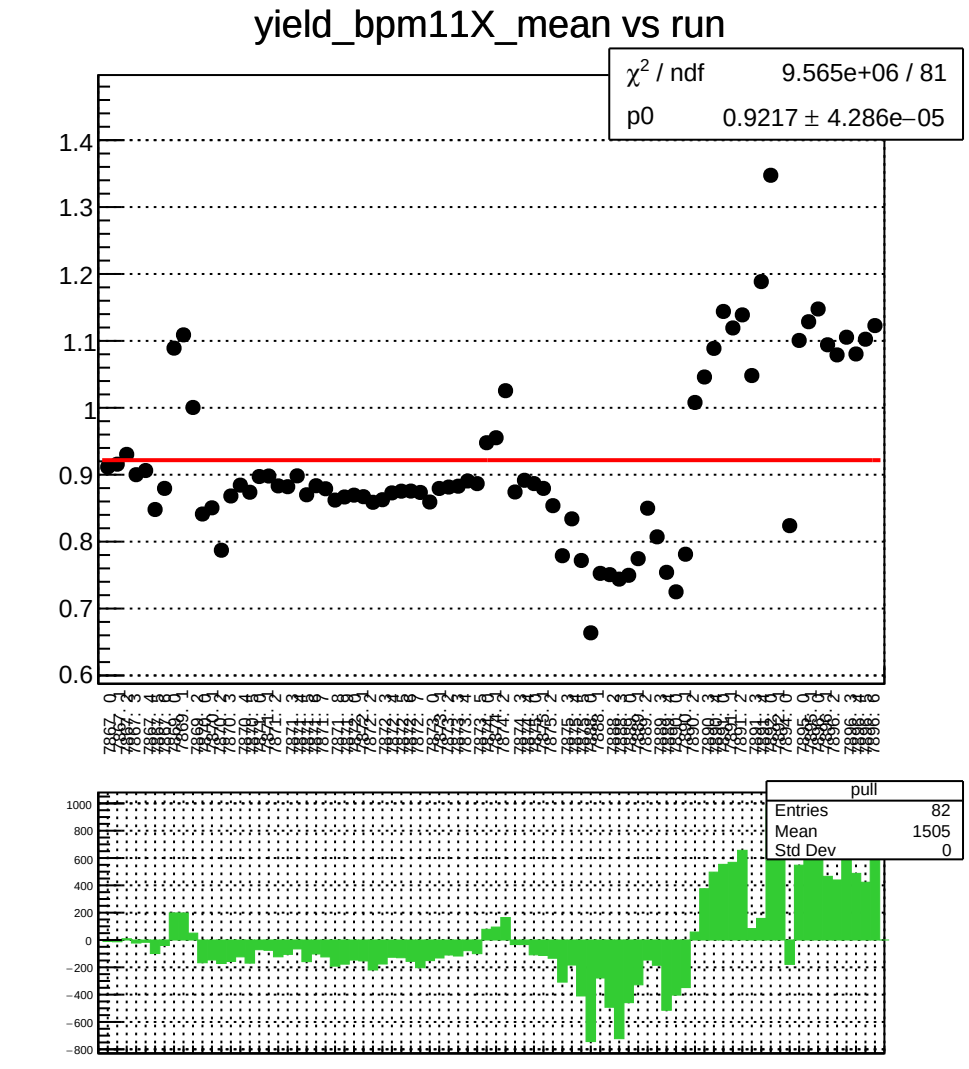

yield_bpm1X_mean vs run
χ² / ndf 5.743e+07 / 81
p0 −2.606 ± 8.139e−05
pull
Entries 82
Mean −115.7
Std Dev 0

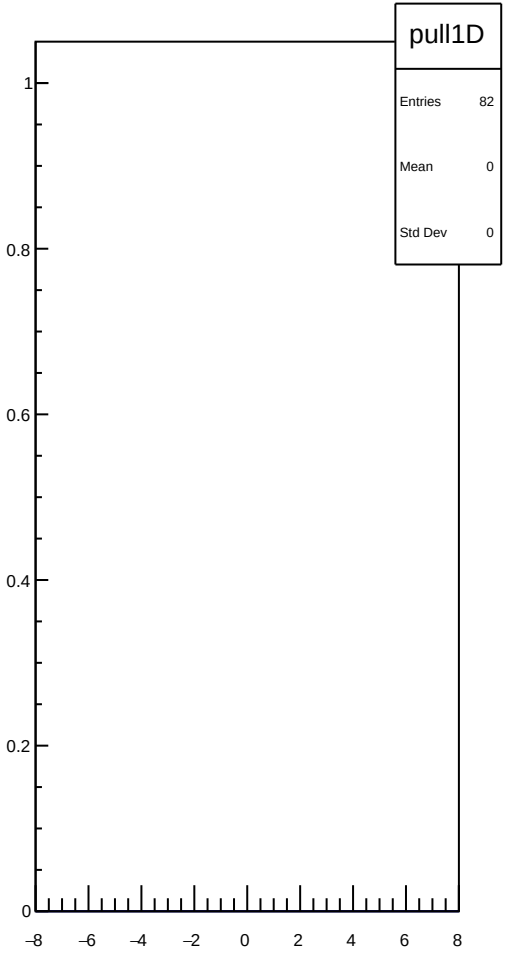

pull1D
Entries 82
Mean 0
Std Dev 0

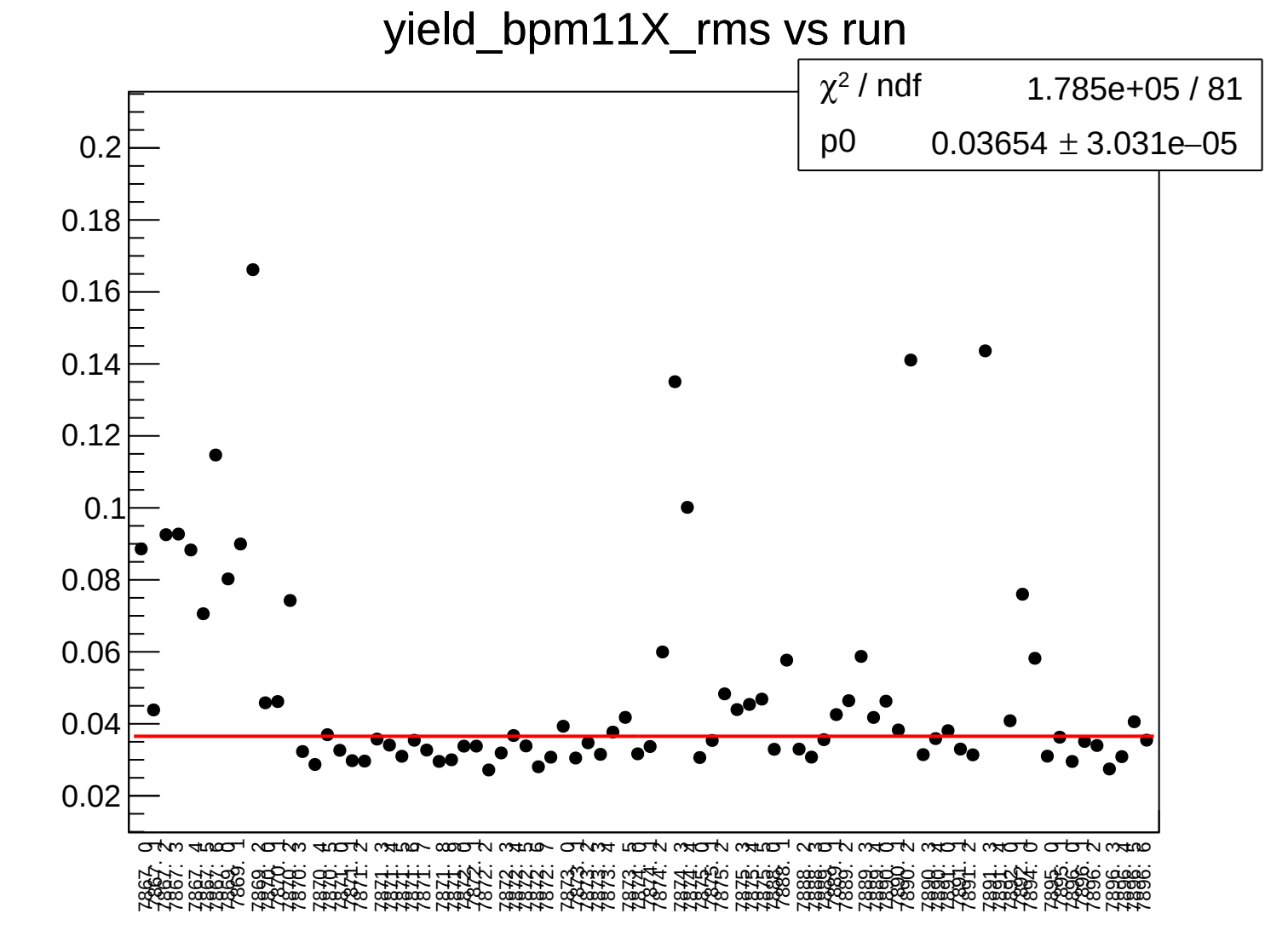

yield_bpm1X_rms vs run
χ² / ndf 1.585e+05 / 81
p0 0.06987 ± 5.755e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

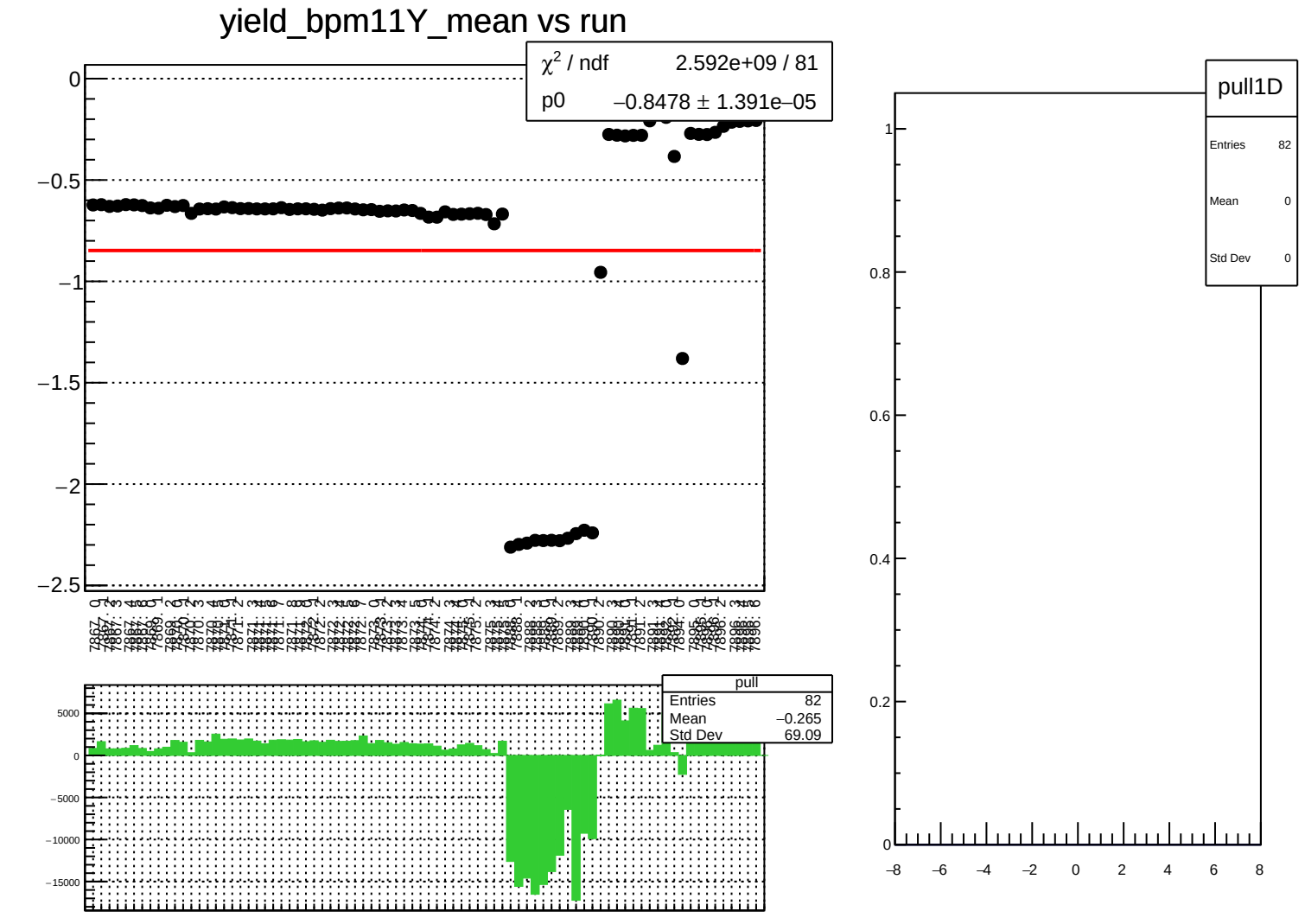

yield_bpm1Y_mean vs run
χ² / ndf 3.524e+08 / 81
p0 3.334 ± 2.211e−05
pull
Entries 82
Mean 158.4
Std Dev 0
pull1D
Entries 82
Mean 1.924
Std Dev 1.273

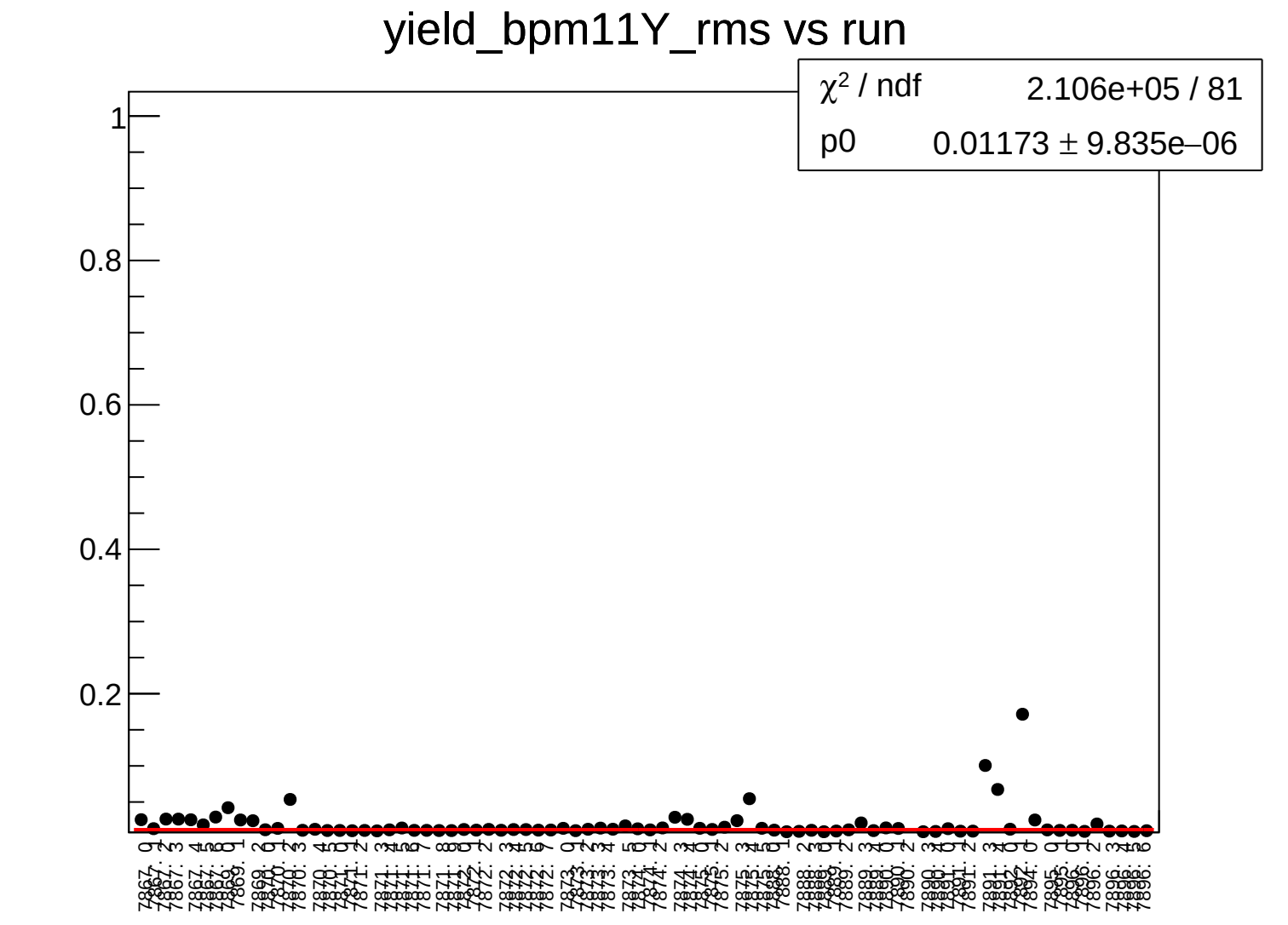

yield_bpm1Y_rms vs run
χ² / ndf 2.859e+05 / 81
p0 0.01814 ± 1.563e−05
0.5
0.4
0.3
0.2
0.1

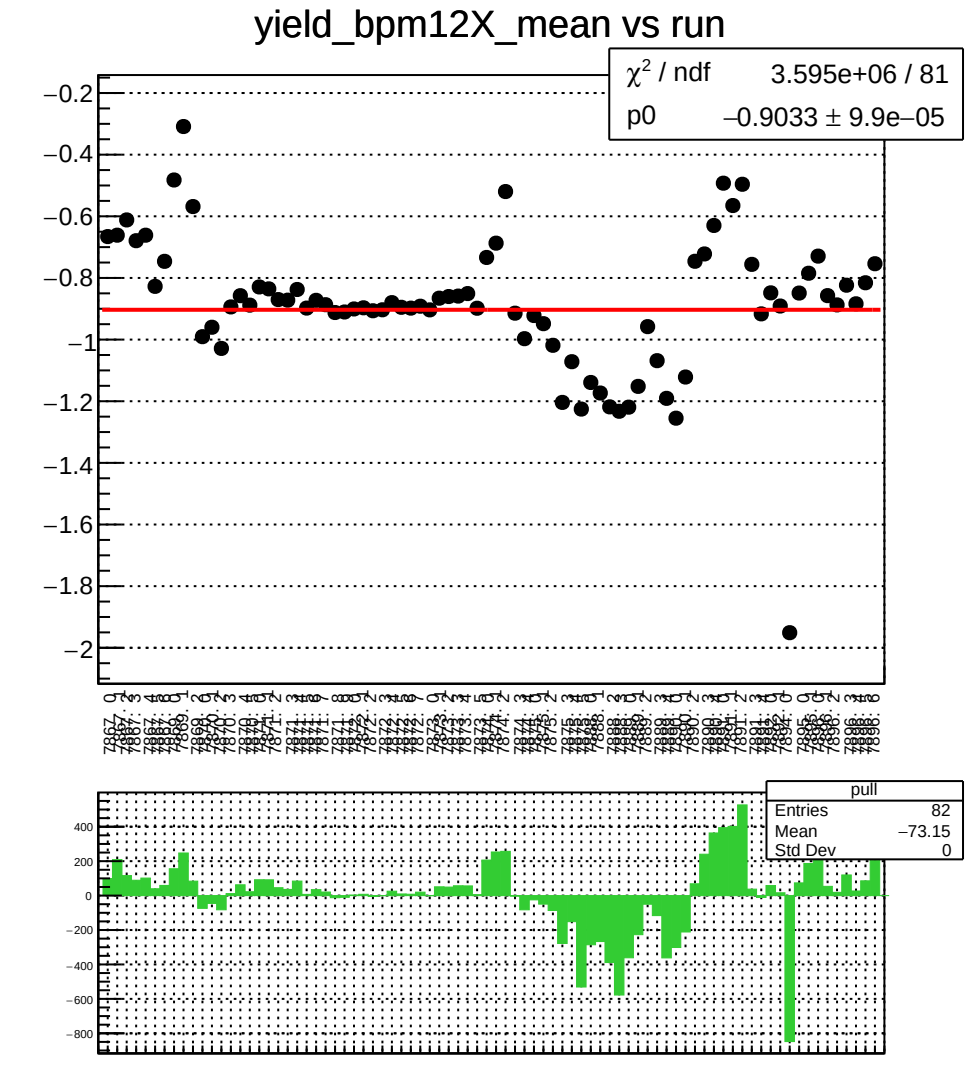

yield_bpm11X_mean vs run
χ² / ndf 9.565e+06 / 81
p0 0.9217 ± 4.286e−05
pull
Entries 82
Mean 1505
Std Dev 0

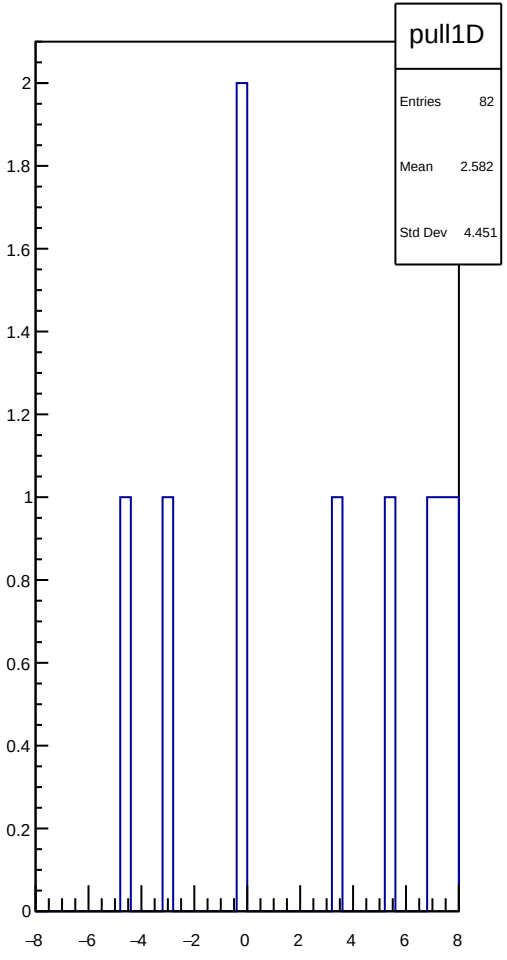

pull1D
Entries 82
Mean 0
Std Dev 0

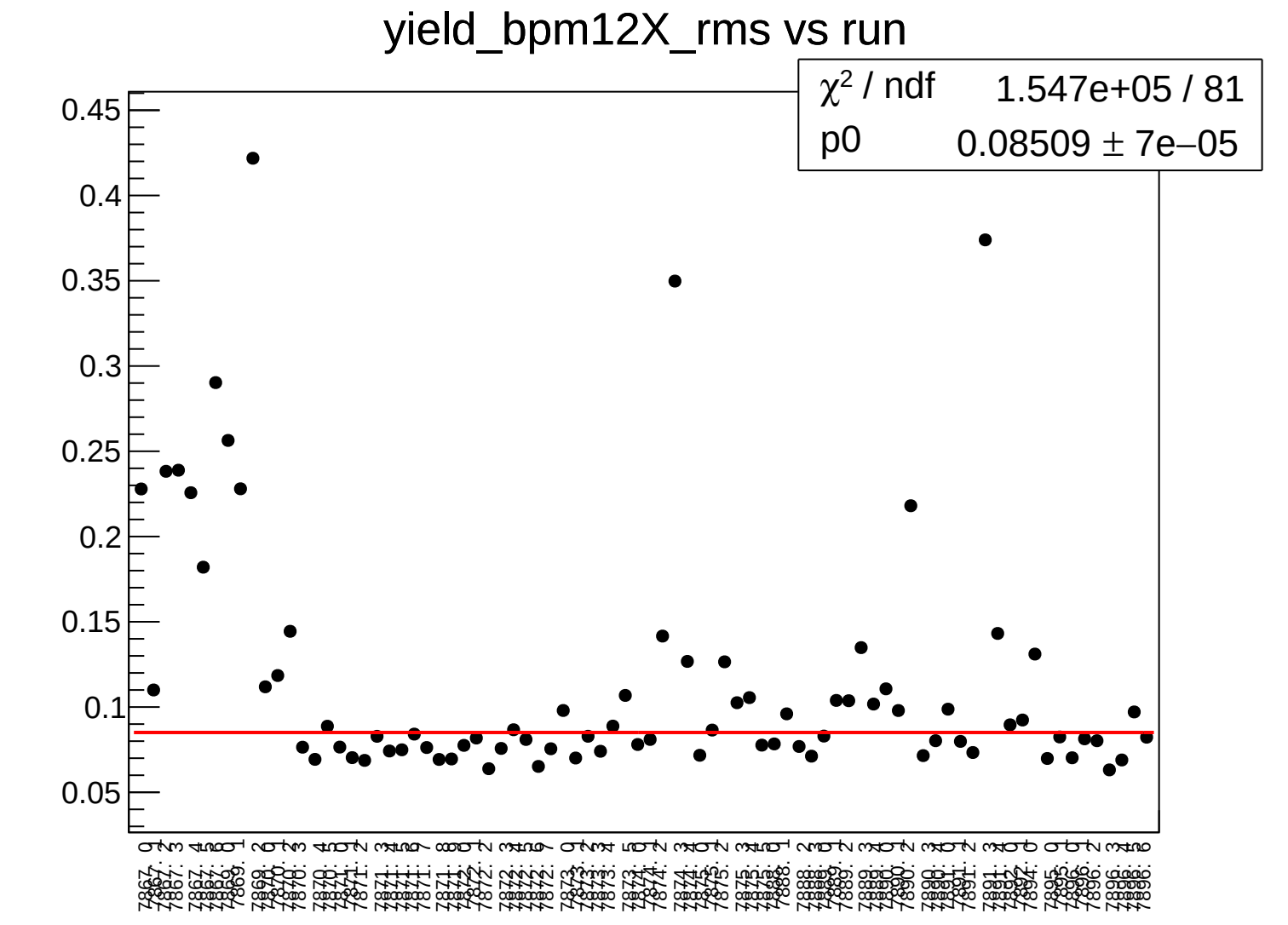

yield_bpm11X_rms vs run
χ² / ndf 1.785e+05 / 81
p0 0.03654 ± 3.031e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

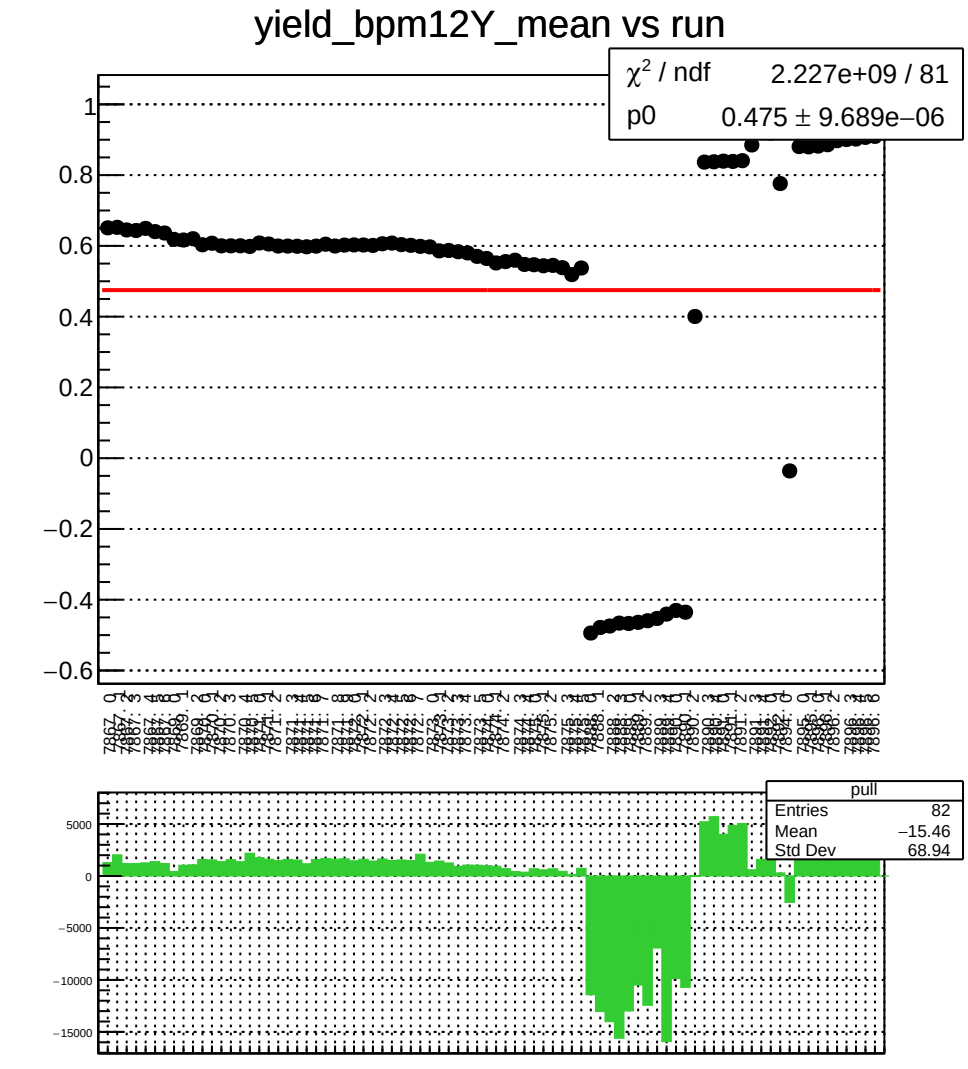

yield_bpm11Y_mean vs run
χ² / ndf 2.592e+09 / 81
p0 −0.8478 ± 1.391e−05
pull
Entries 82
Mean −0.265
Std Dev 69.09
pull1D
Entries 82
Mean 0
Std Dev 0

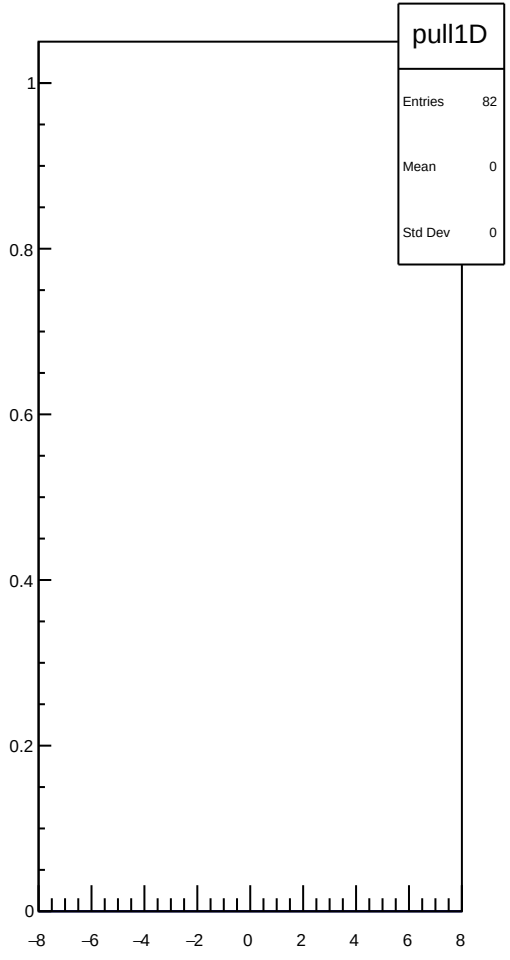

yield_bpm11Y_rms vs run
χ^2 / ndf 2.106e+05 / 81
p0 0.01173 ± 9.835e−06
1
0.8
0.6
0.4
0.2

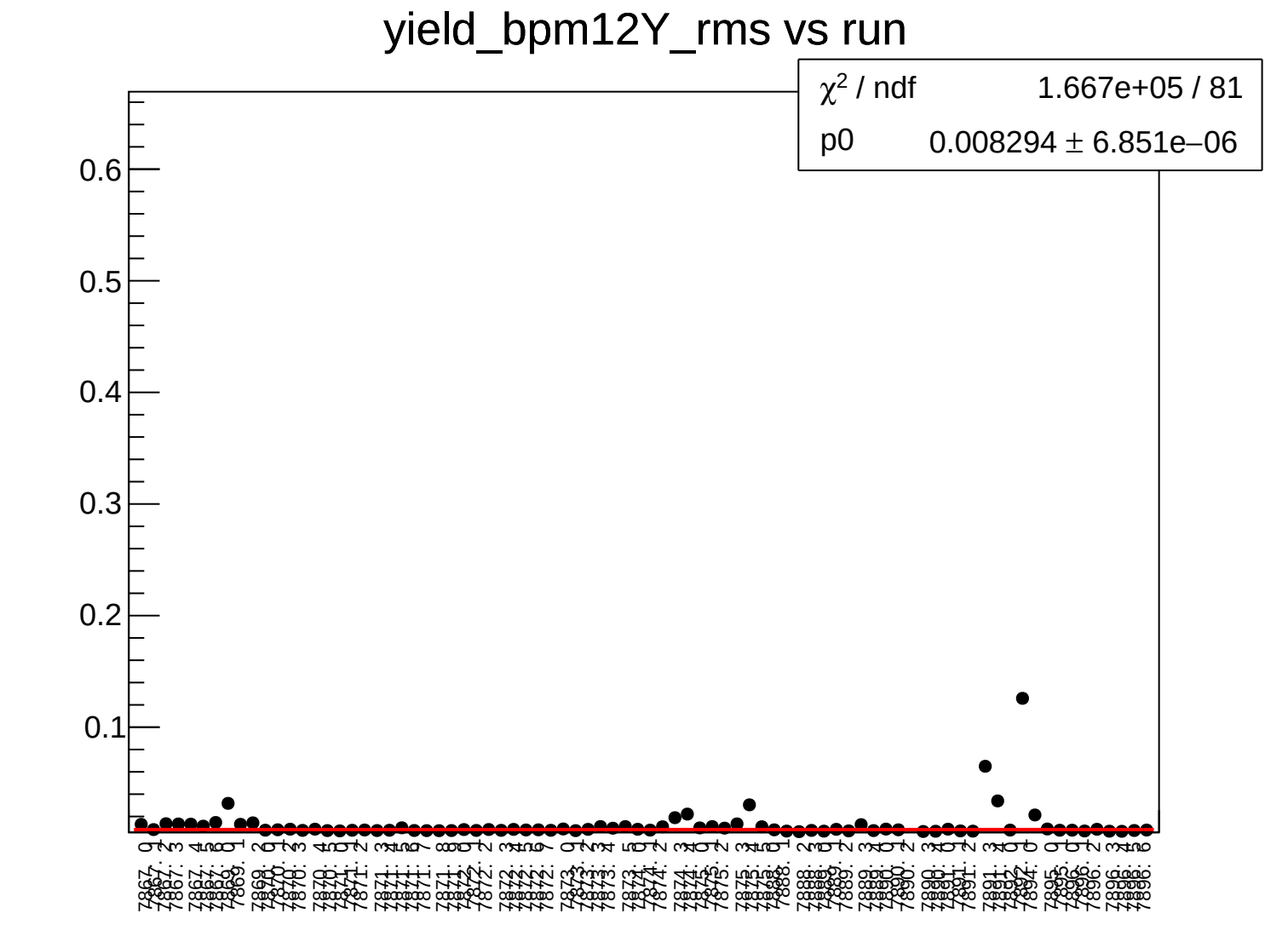

yield_bpm12X_mean vs run
χ² / ndf 3.595e+06 / 81
p0 –0.9033 ± 9.9e–05
pull
Entries 82
Mean –73.15
Std Dev 0

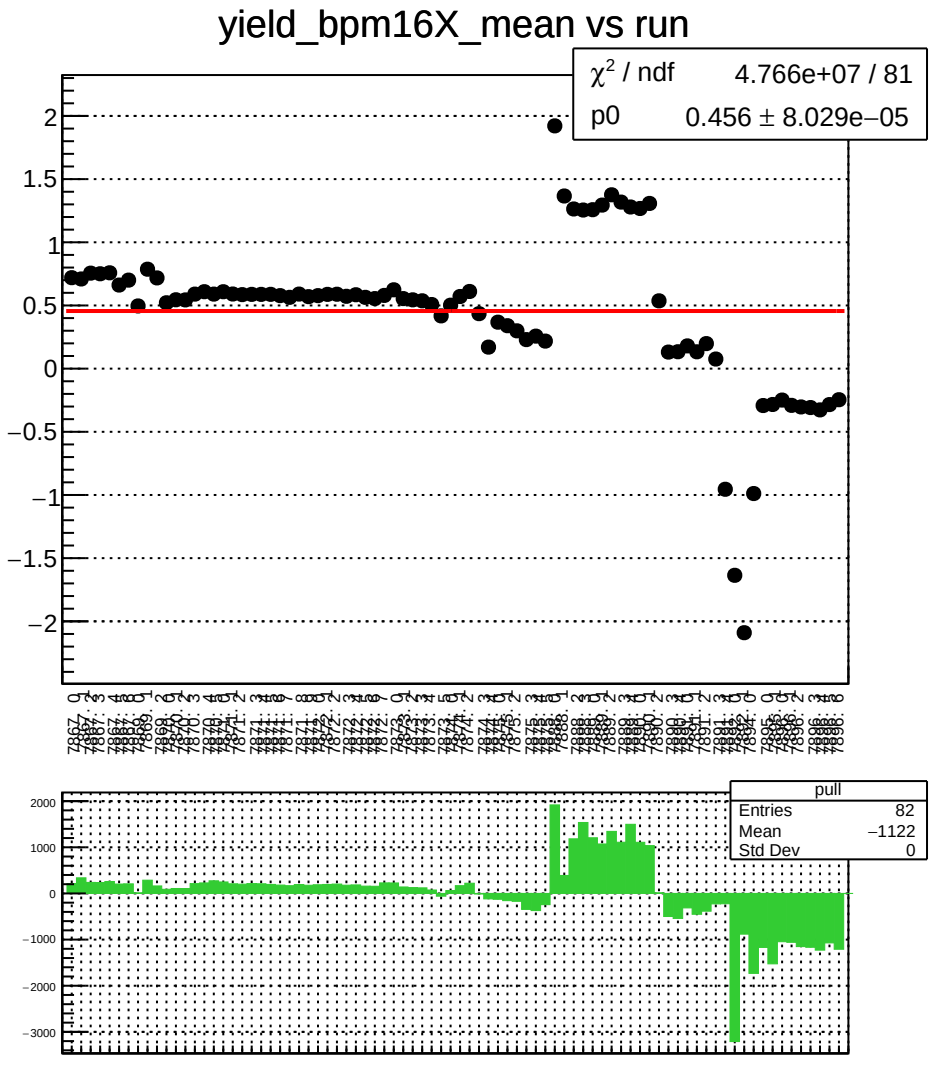

pull1D
Entries 82
Mean 2.582
Std Dev 4.451

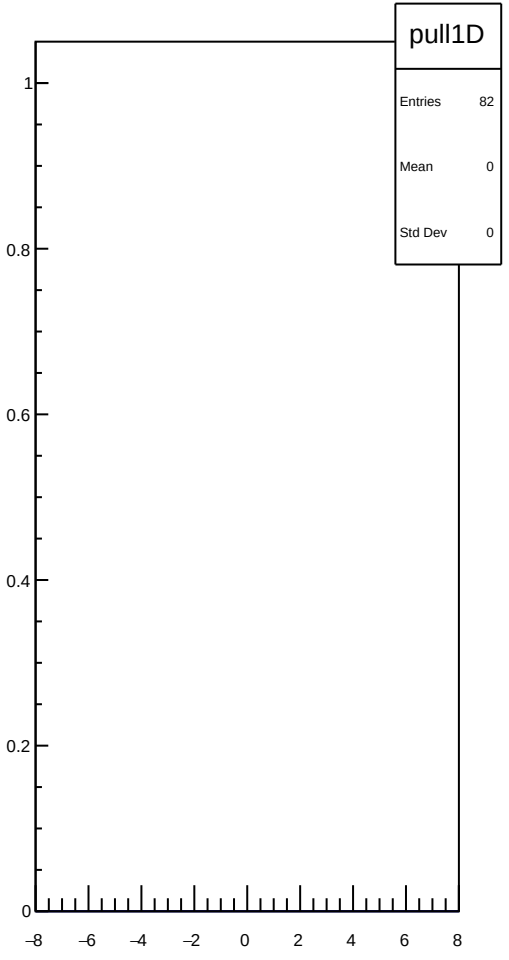

yield_bpm12X_rms vs run
χ² / ndf 1.547e+05 / 81
p0 0.08509 ± 7e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

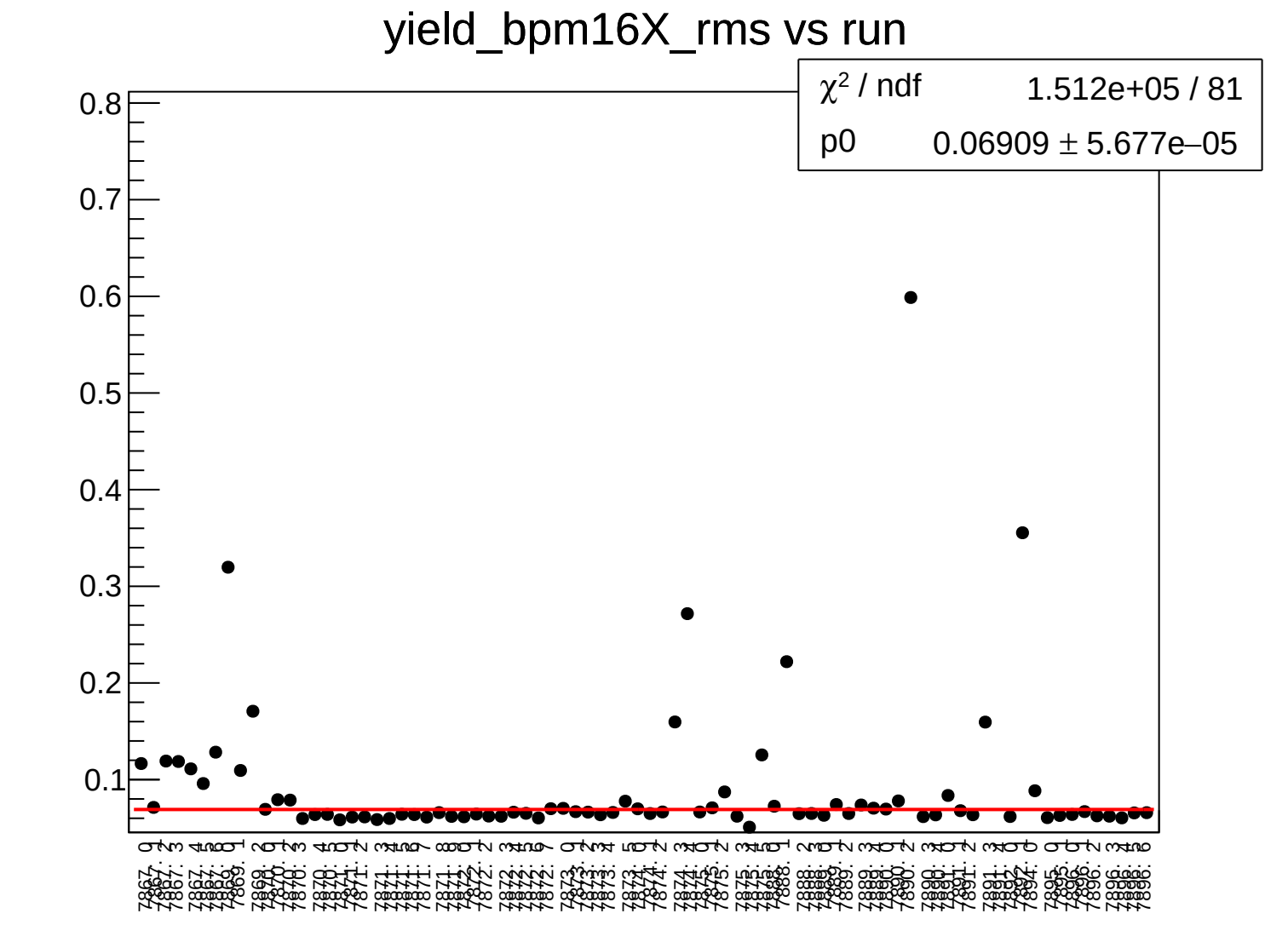

yield_bpm12Y_mean vs run
χ² / ndf 2.227e+09 / 81
p0 0.475 ± 9.689e−06
pull
Entries 82
Mean −15.46
Std Dev 68.94

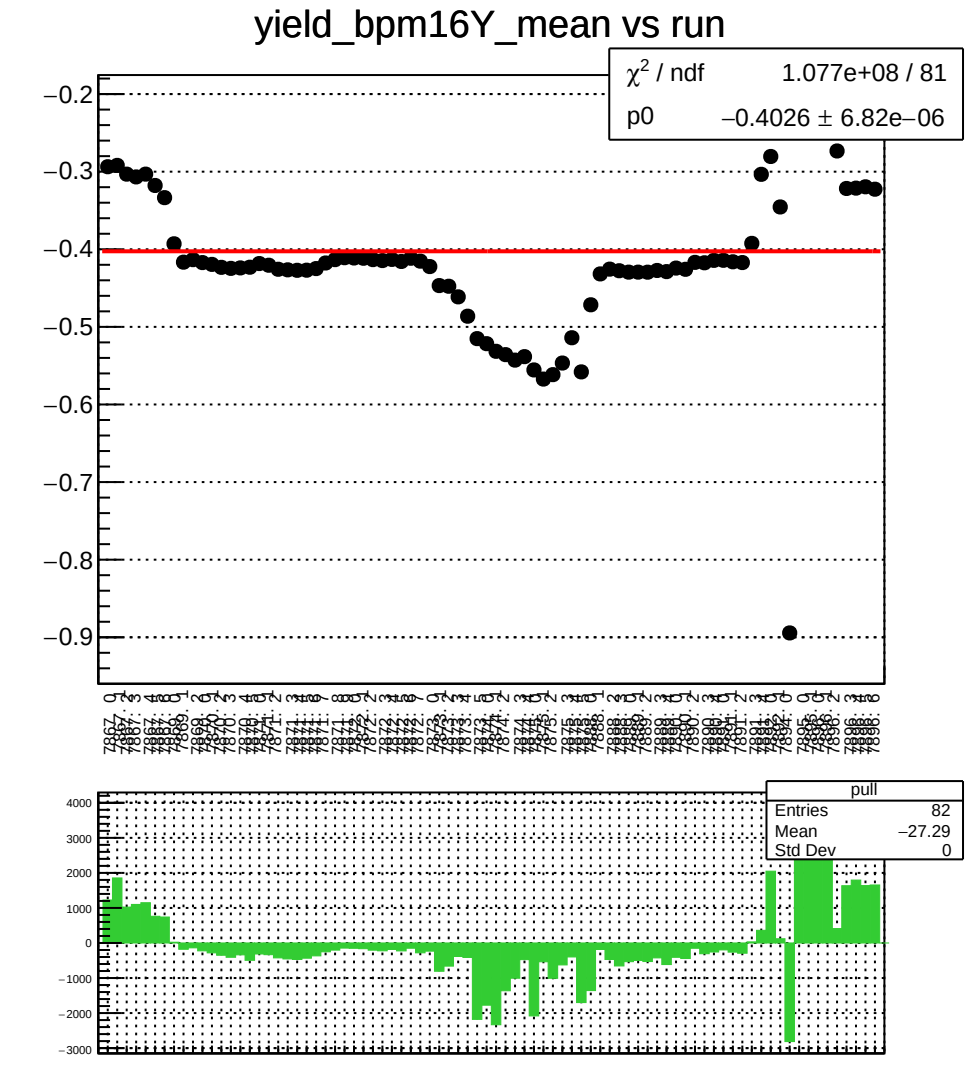

pull1D
Entries 82
Mean 0
Std Dev 0

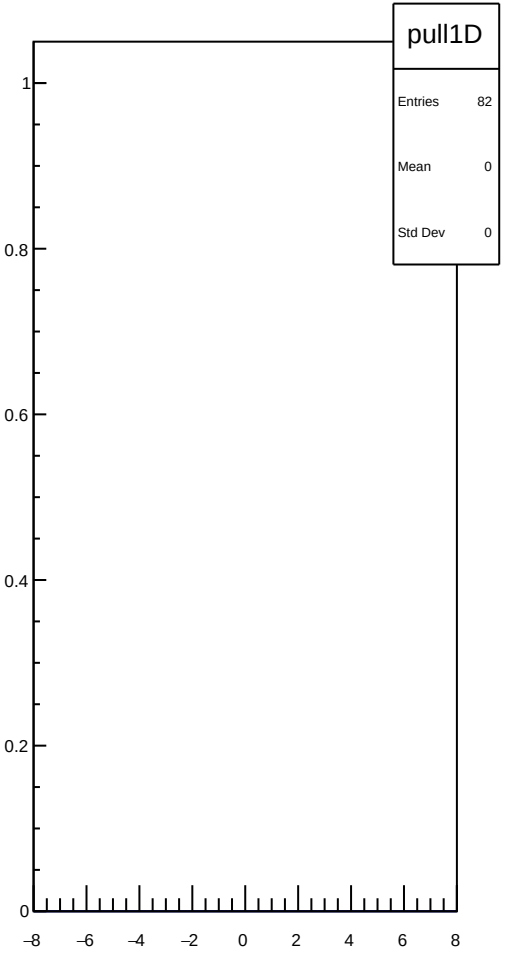

yield_bpm12Y_rms vs run
χ² / ndf 1.667e+05 / 81
p0 0.008294 ± 6.851e−06
0.6
0.5
0.4
0.3
0.2
0.1

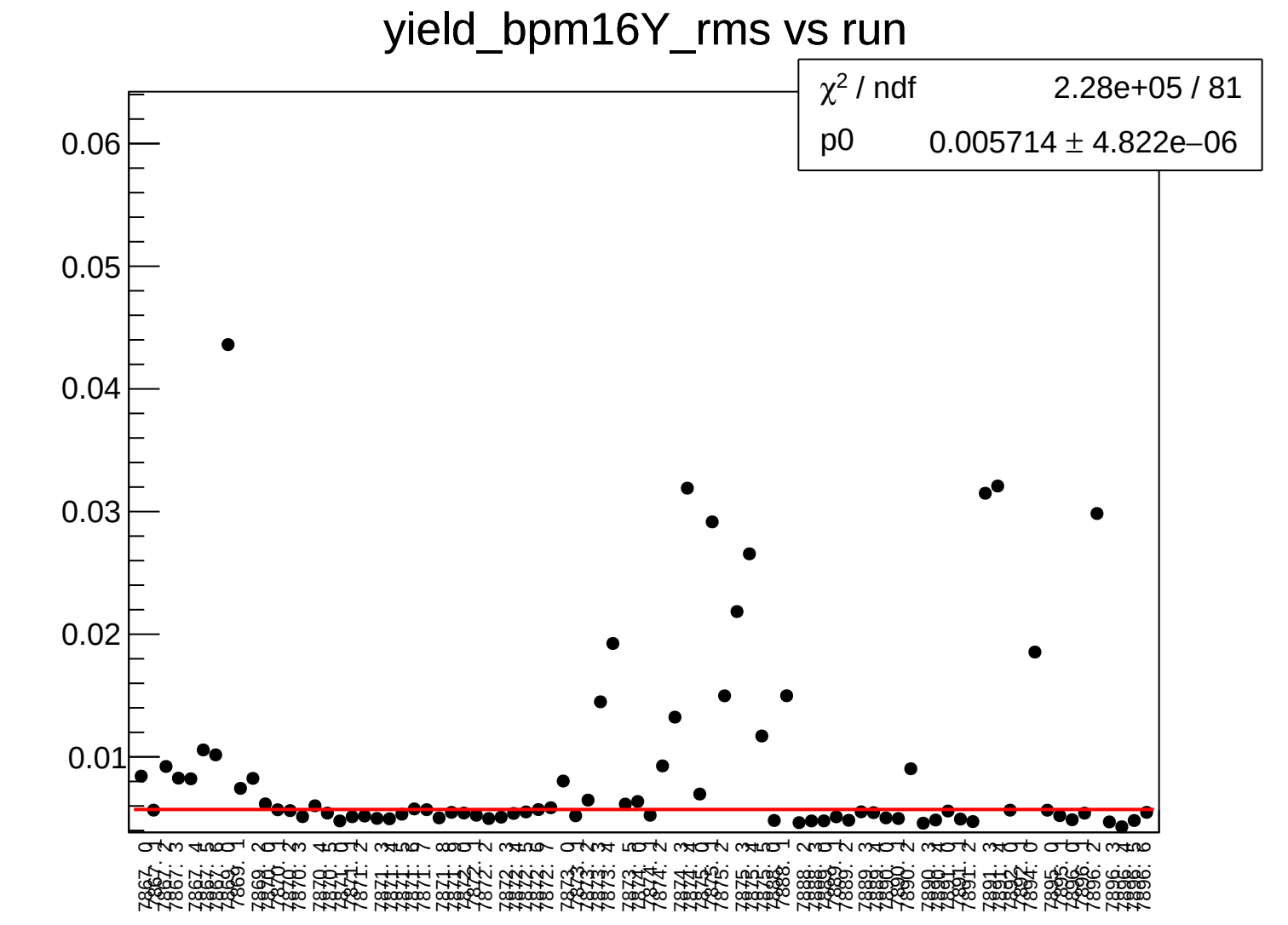

yield_bpm16X_mean vs run
χ² / ndf 4.766e+07 / 81
p0 0.456 ± 8.029e−05
pull
Entries 82
Mean −1122
Std Dev 0

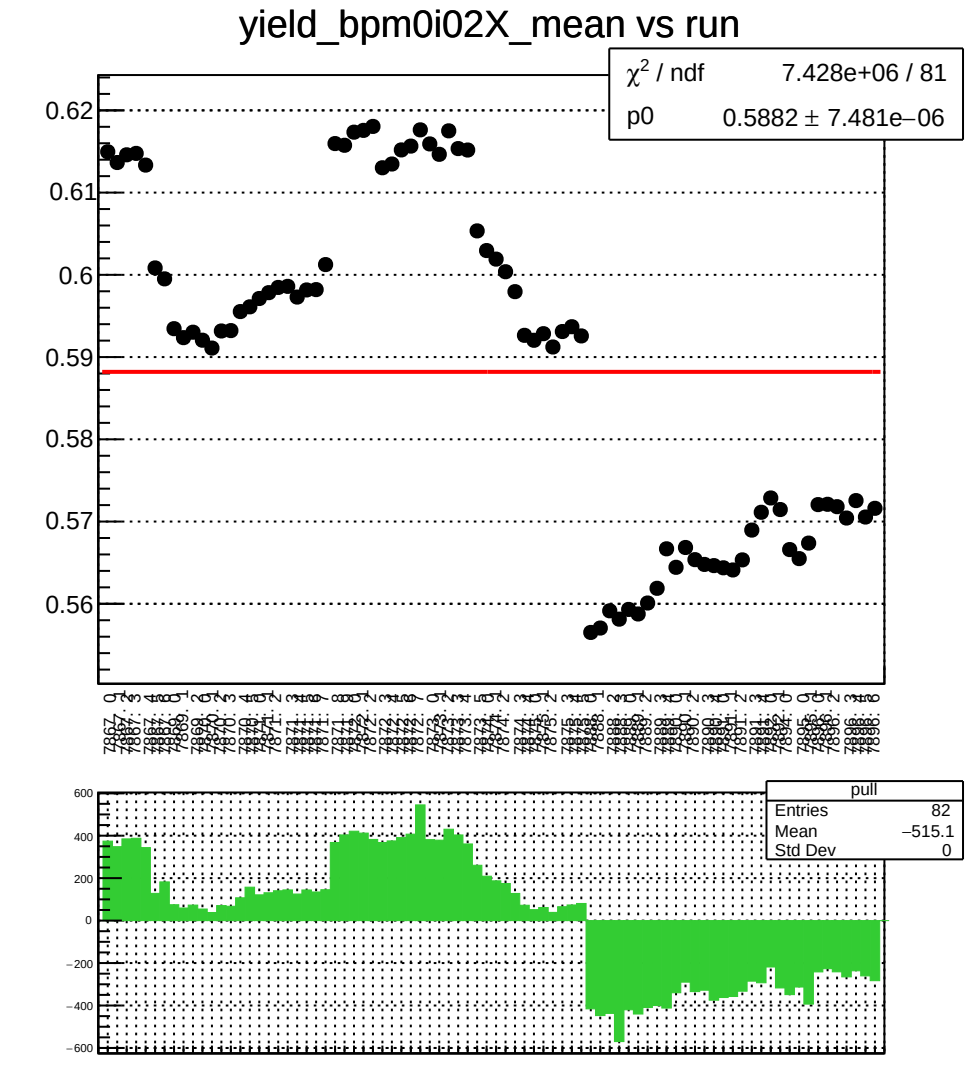

pull1D
Entries 82
Mean 0
Std Dev 0

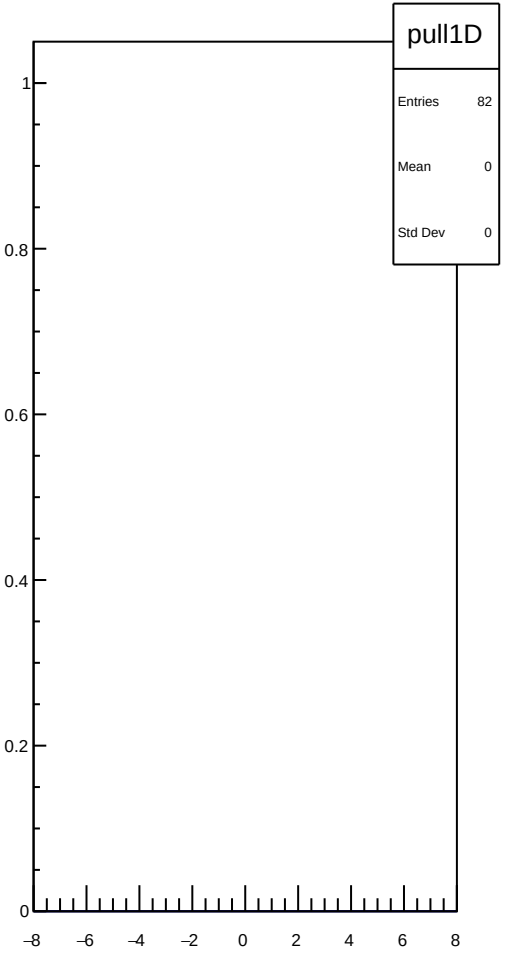

yield_bpm16X_rms vs run
χ² / ndf 1.512e+05 / 81
p0 0.06909 ± 5.677e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

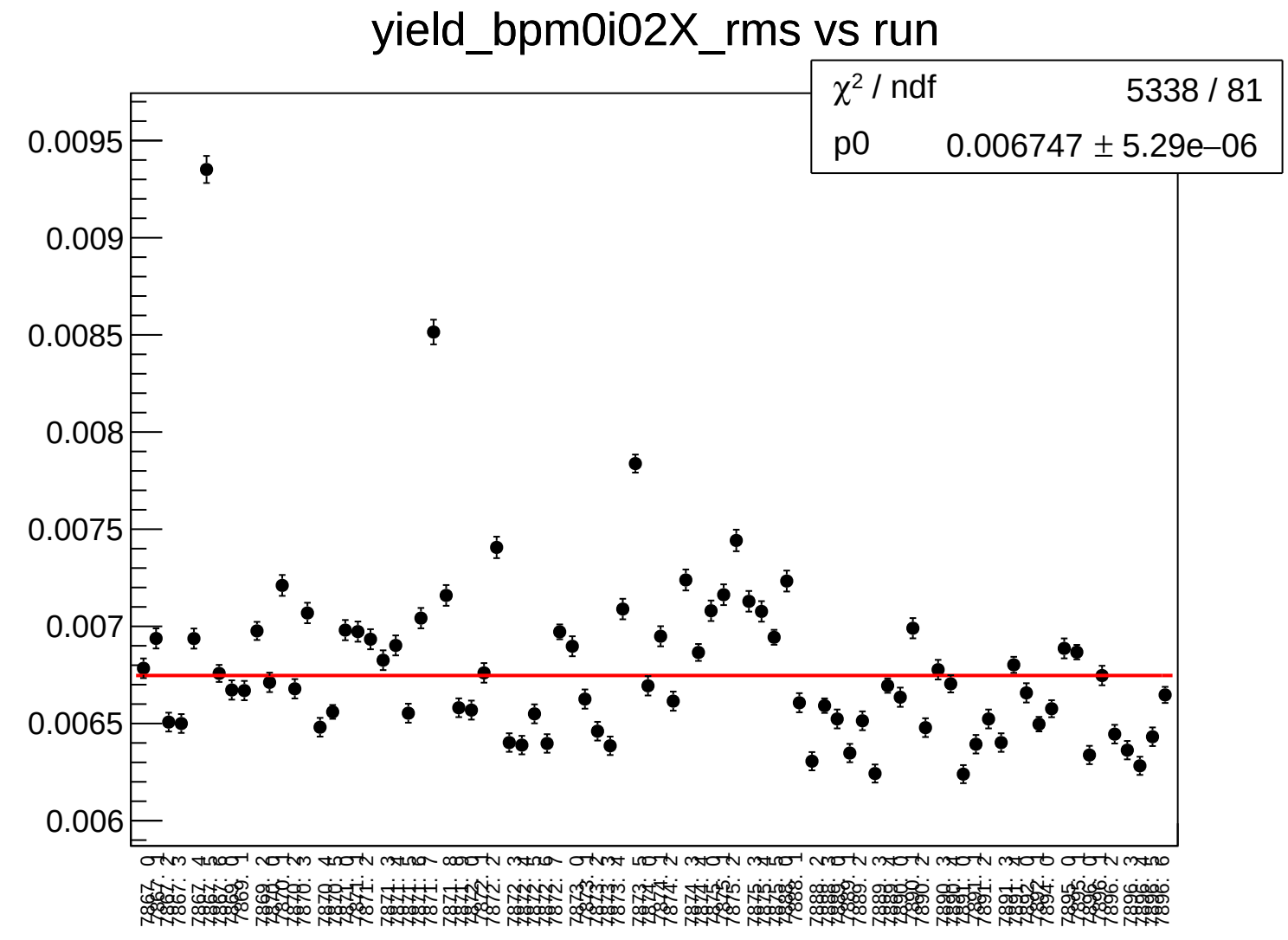

yield_bpm16Y_mean vs run
χ² / ndf 1.077e+08 / 81
p0 −0.4026 ± 6.82e−06
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 82
Mean −27.29
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000

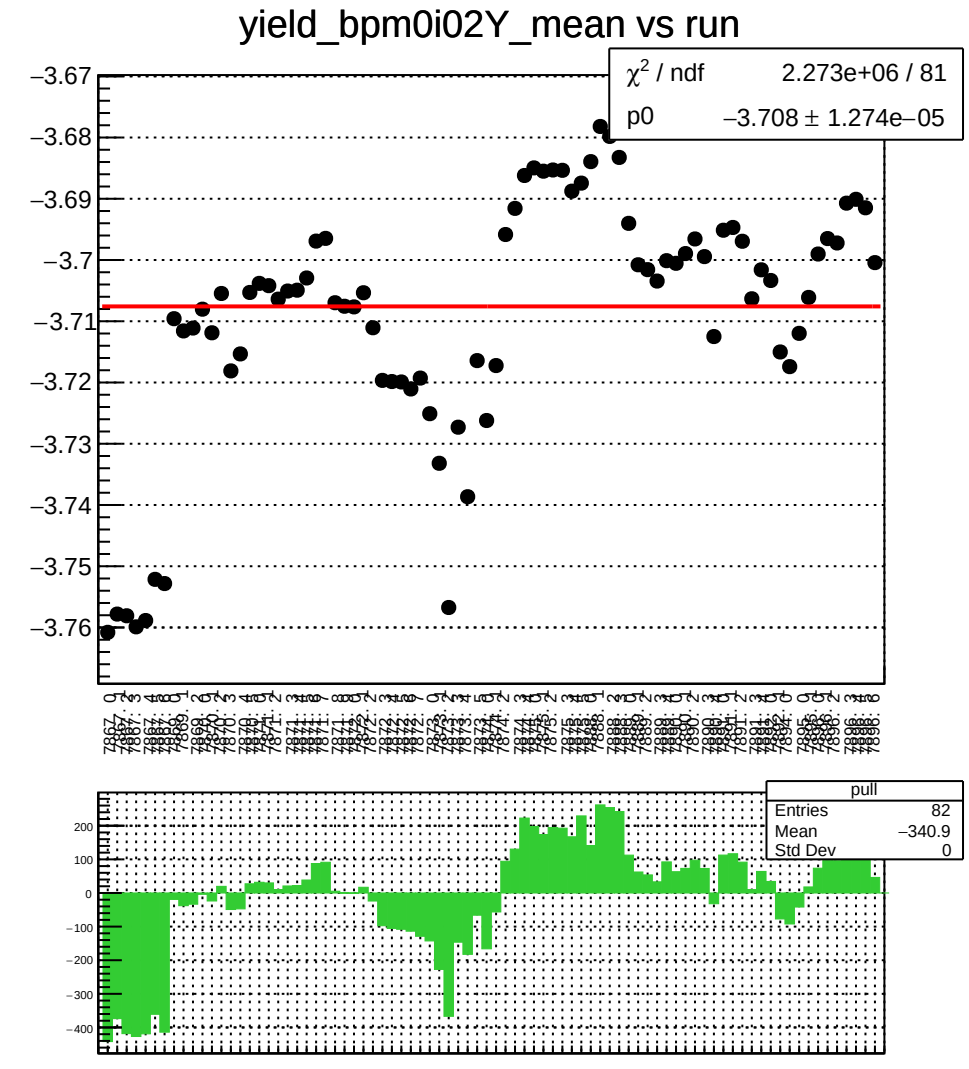

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

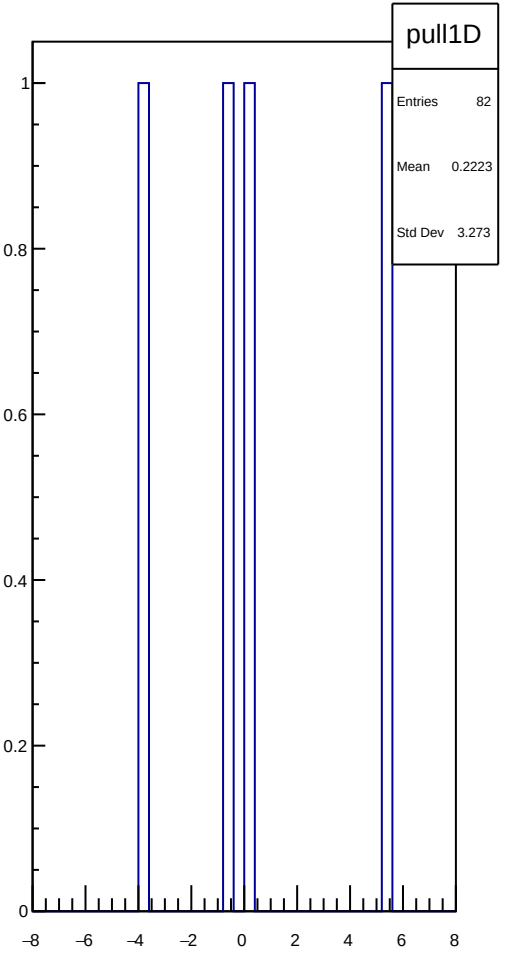

yield_bpm16Y_rms vs run
χ² / ndf 2.28e+05 / 81
p0 0.005714 ± 4.822e−06
0.06
0.05
0.04
0.03
0.02
0.01

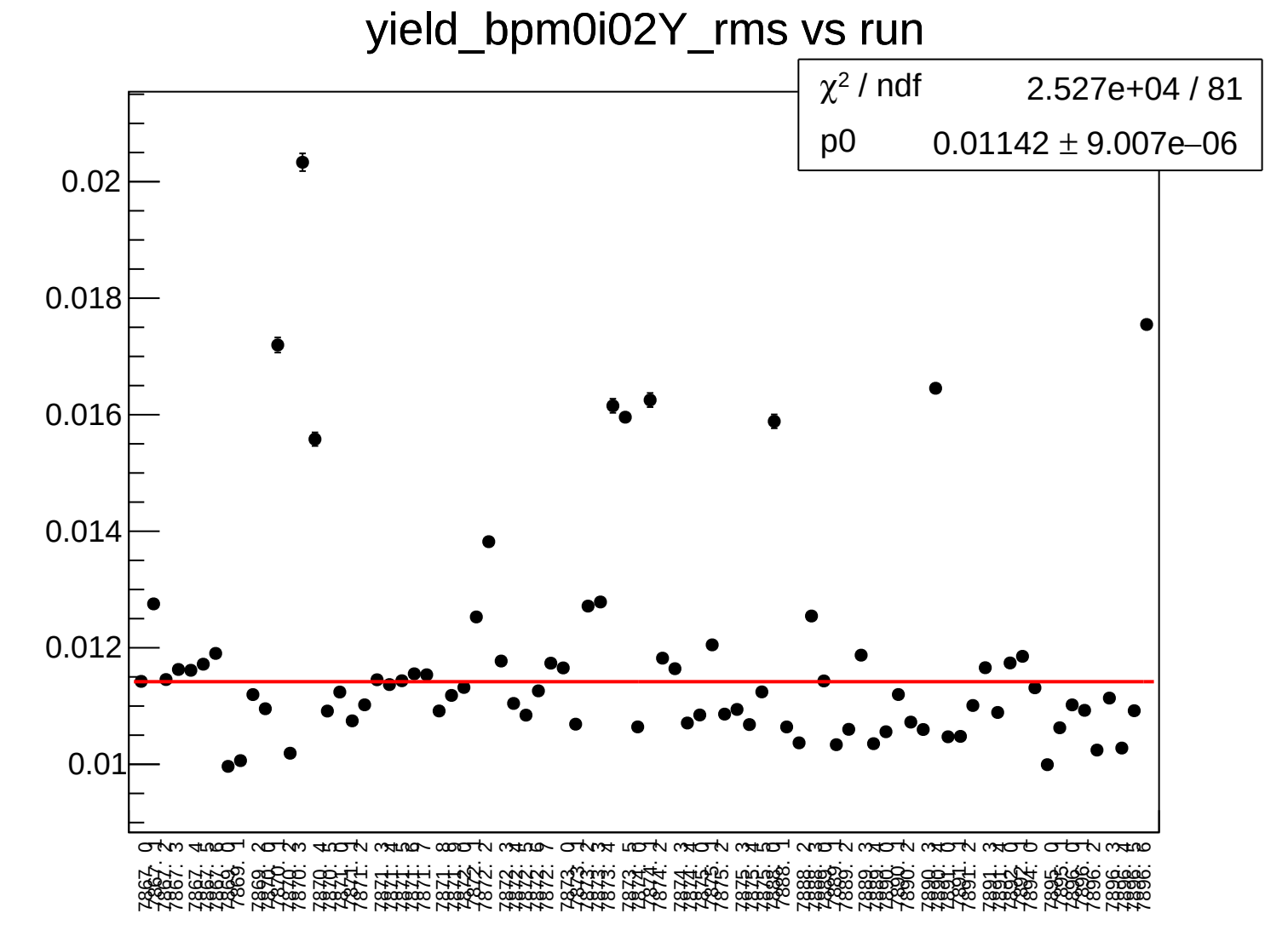

yield_bpm0i02X_mean vs run
χ² / ndf 7.428e+06 / 81
p0 0.5882 ± 7.481e−06
0.62
0.61
0.6
0.59
0.58
0.57
0.56
pull
Entries 82
Mean −515.1
Std Dev 0
600
400
200
0
−200
−400
−600

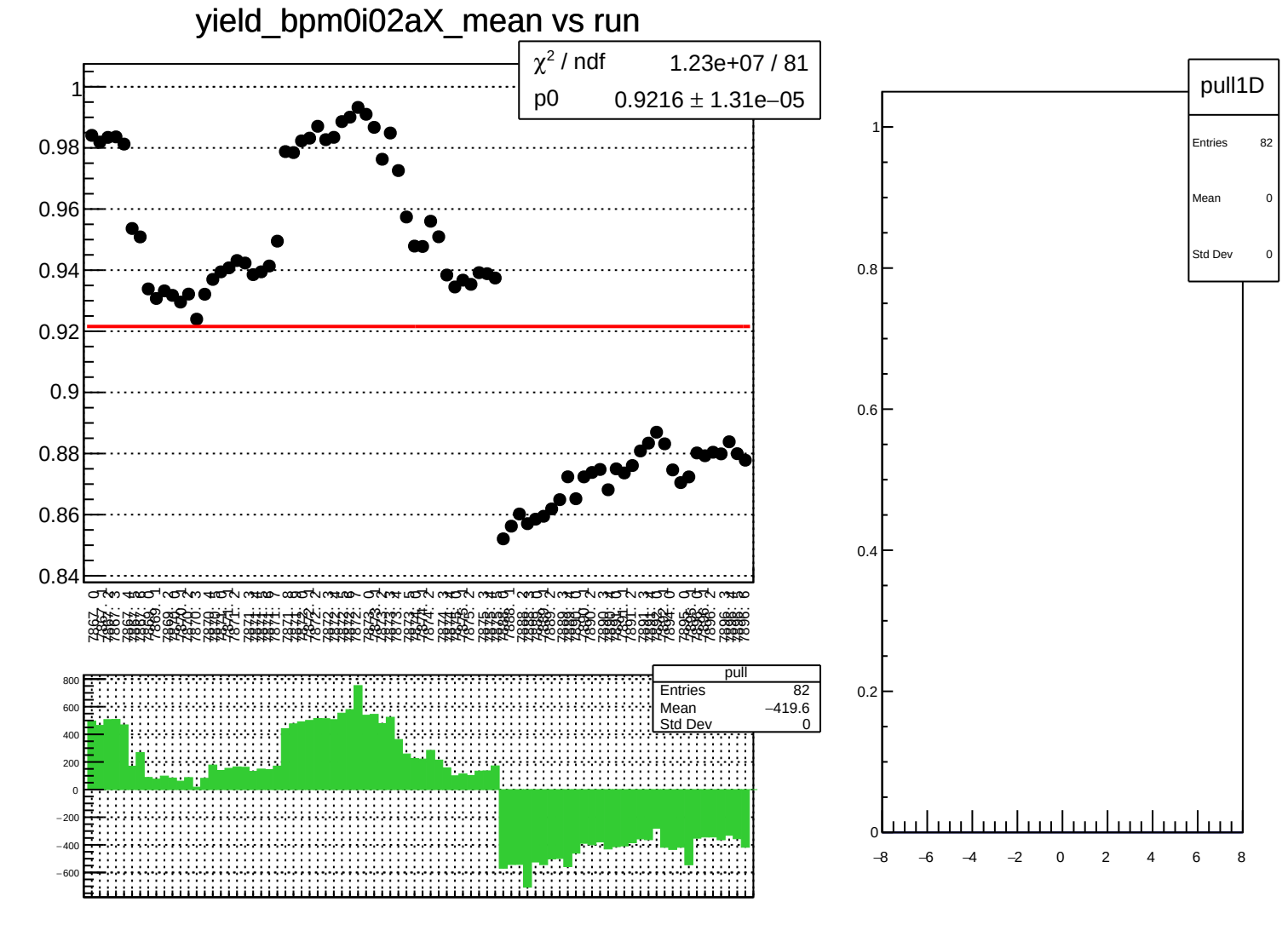

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

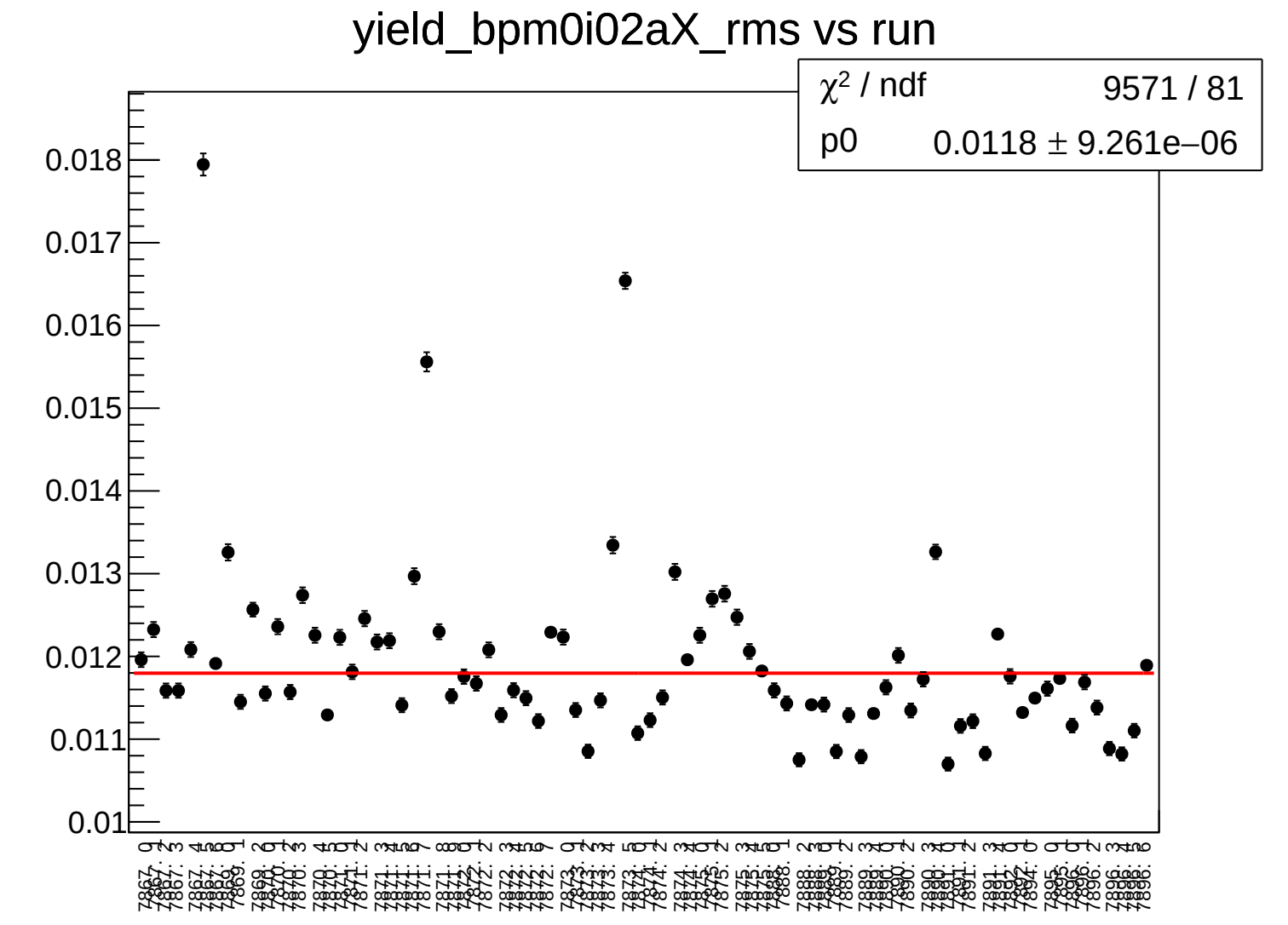

yield_bpm0i02X_rms vs run
χ² / ndf 5338 / 81
p0 0.006747 ± 5.29e–06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

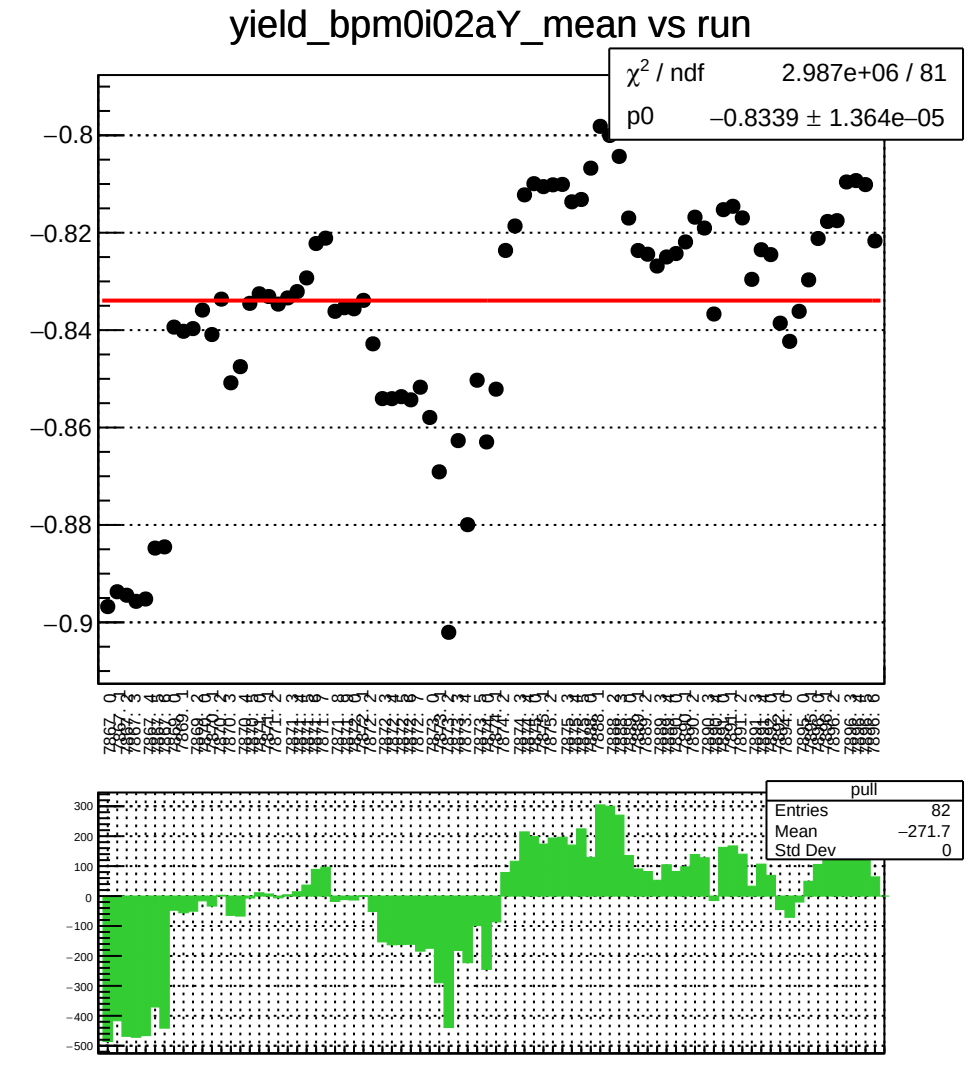

yield_bpm0i02Y_mean vs run
χ² / ndf 2.273e+06 / 81
p0 −3.708 ± 1.274e−05
−3.67
−3.68
−3.69
−3.7
−3.71
−3.72
−3.73
−3.74
−3.75
−3.76
pull
Entries 82
Mean −340.9
Std Dev 0
200
100
0
−100
−200
−300
−400

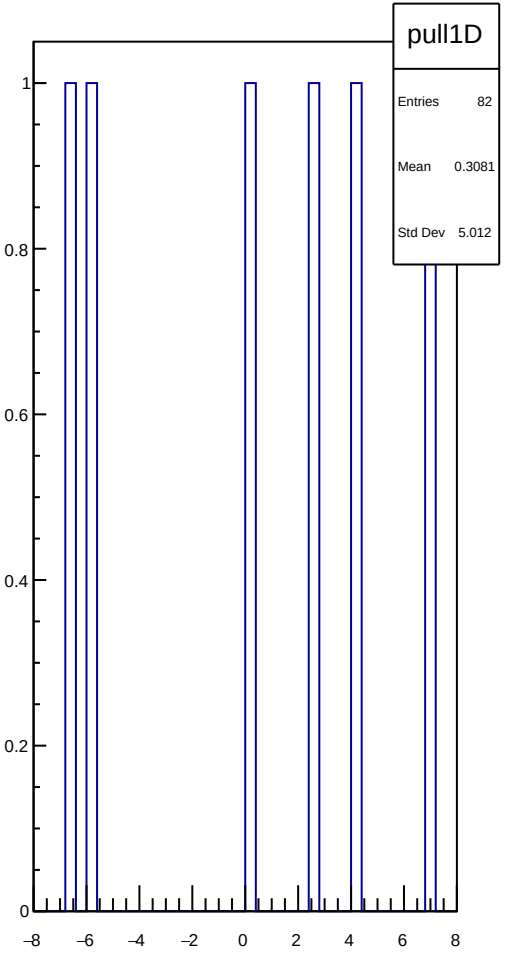

pull1D
Entries 82
Mean 0.2223
Std Dev 3.273
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

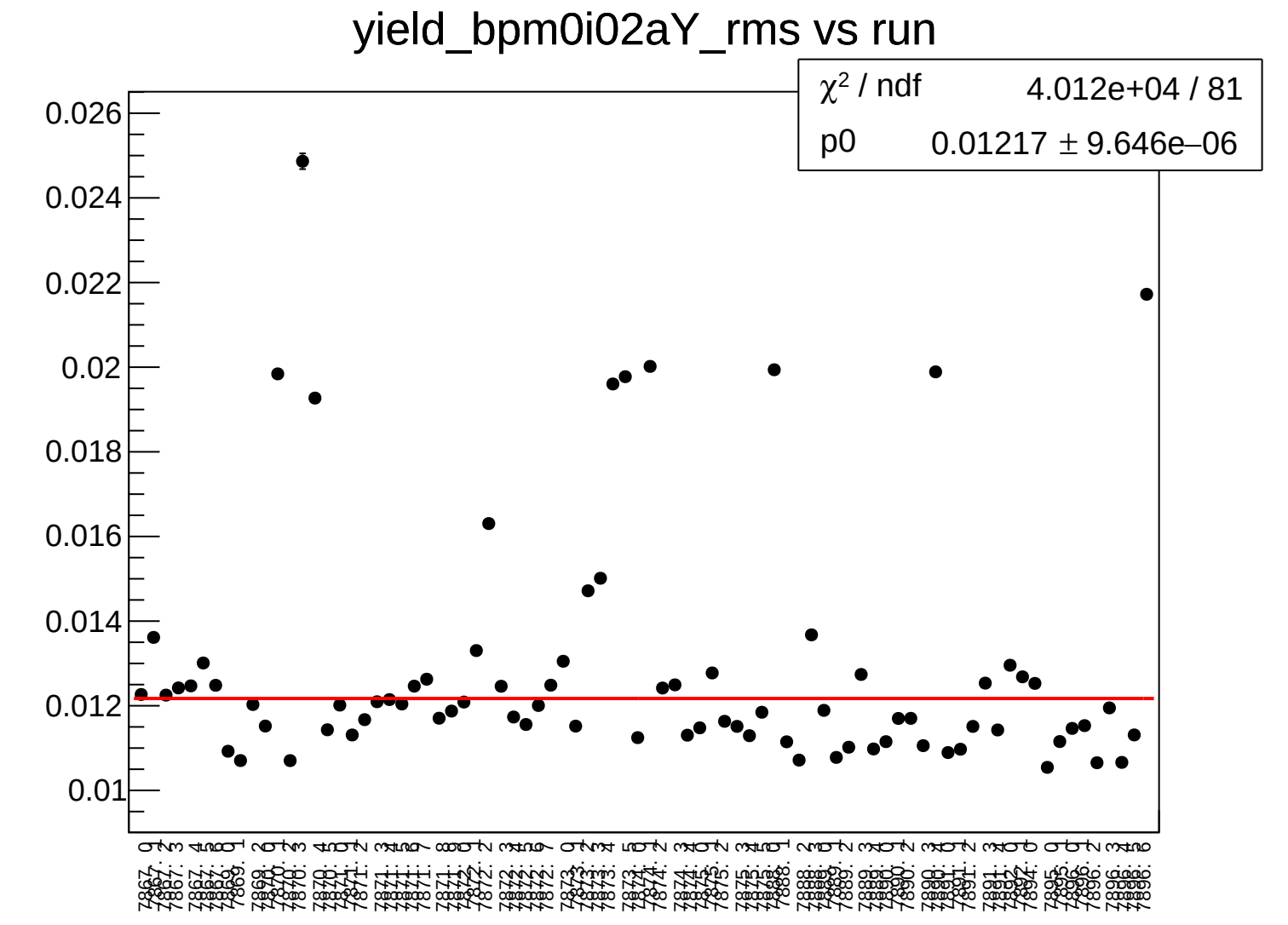

yield_bpm0i02Y_rms vs run
χ² / ndf 2.527e+04 / 81
p0 0.01142 ± 9.007e−06
0.02
0.018
0.016
0.014
0.012
0.01

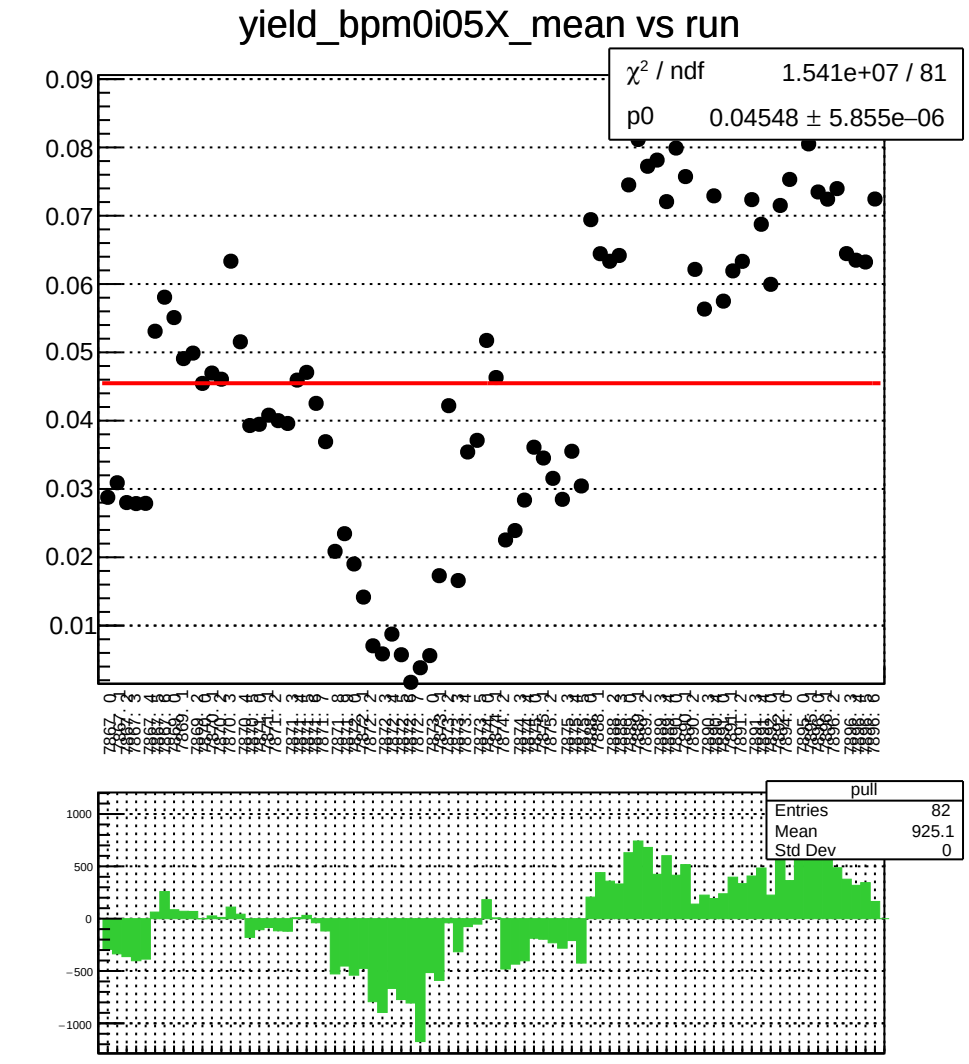

yield_bpm0i02aX_mean vs run
χ² / ndf 1.23e+07 / 81
p0 0.9216 ± 1.31e−05
pull
Entries 82
Mean −419.6
Std Dev 0
pull1D
Entries 82
Mean 0
Std Dev 0

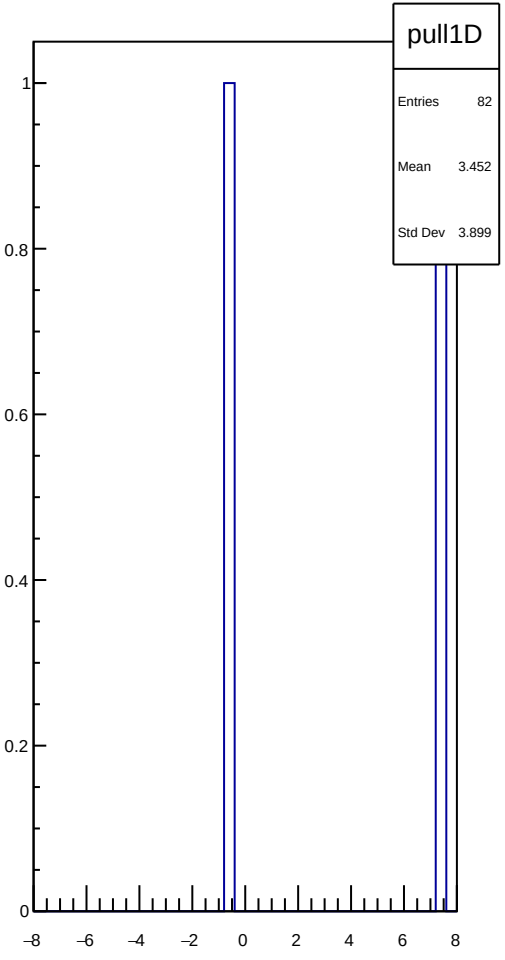

yield_bpm0i02aX_rms vs run
χ² / ndf 9571 / 81
p0 0.0118 ± 9.261e−06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

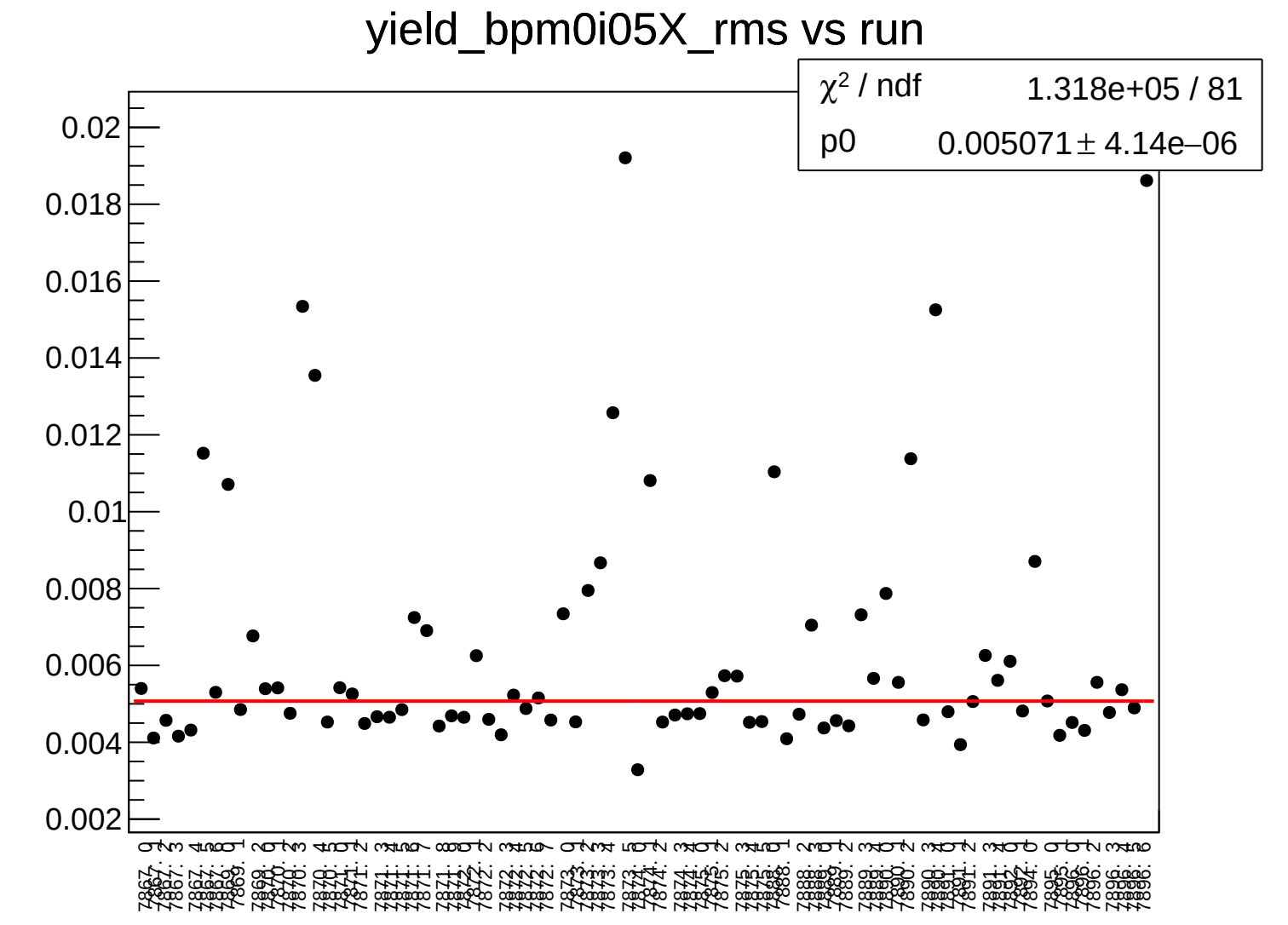

yield_bpm0i02aY_mean vs run
χ² / ndf 2.987e+06 / 81
p0 −0.8339 ± 1.364e−05
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 82
Mean −271.7
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

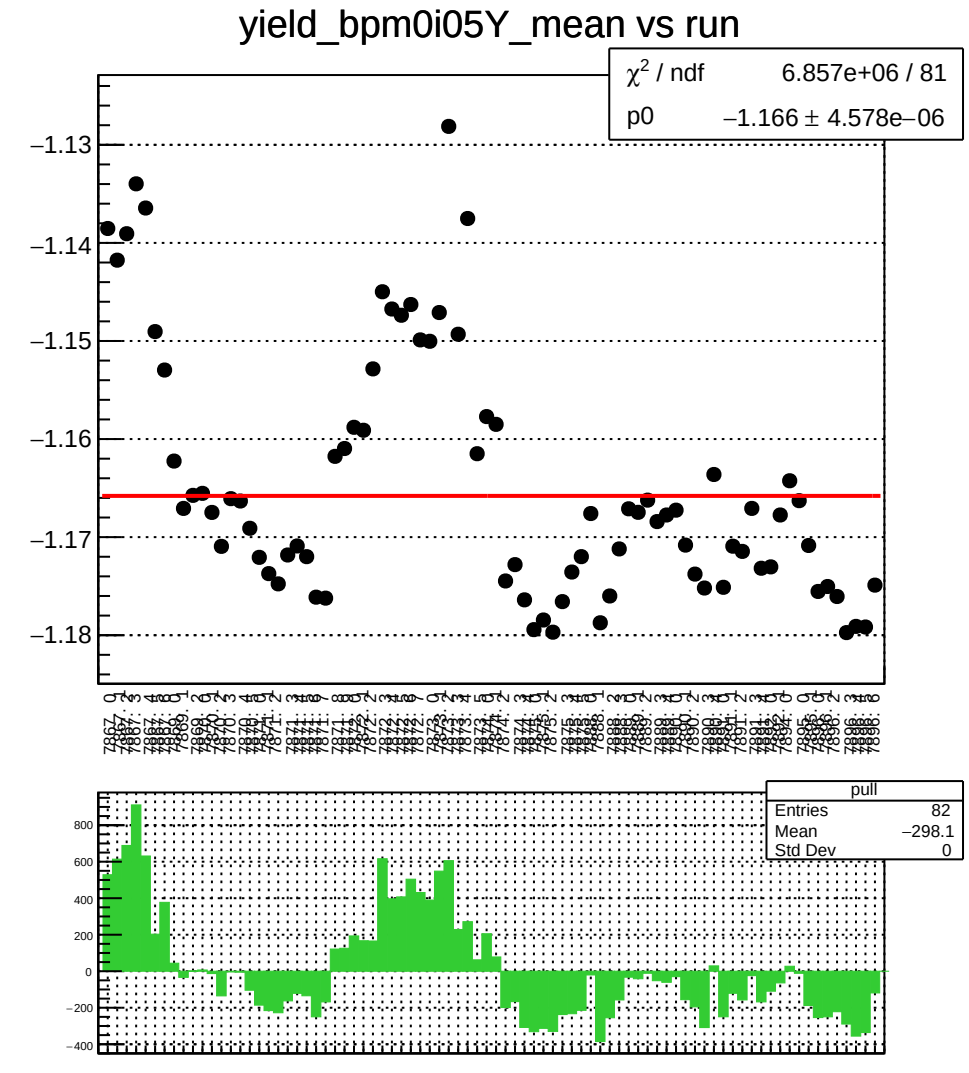

pull1D
Entries 82
Mean 0.3081
Std Dev 5.012
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

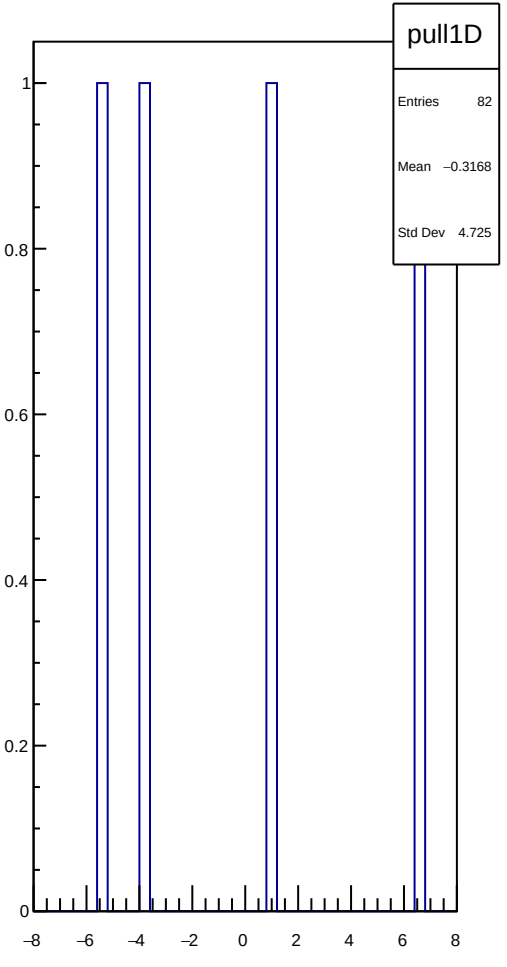

yield_bpm0i02aY_rms vs run
χ² / ndf 4.012e+04 / 81
p0 0.01217 ± 9.646e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

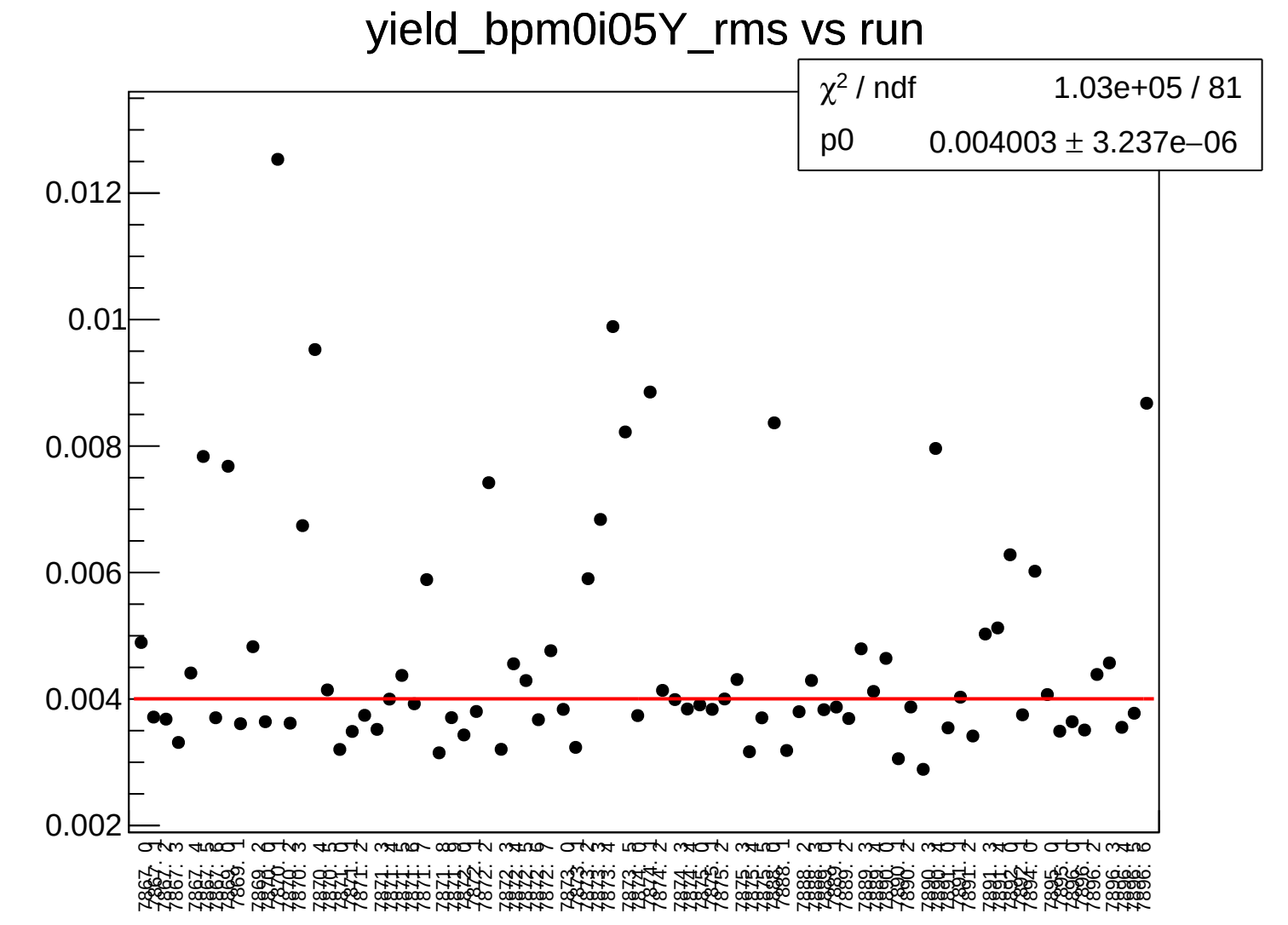

yield_bpm0i05X_mean vs run
χ² / ndf 1.541e+07 / 81
p0 0.04548 ± 5.855e−06
pull
Entries 82
Mean 925.1
Std Dev 0

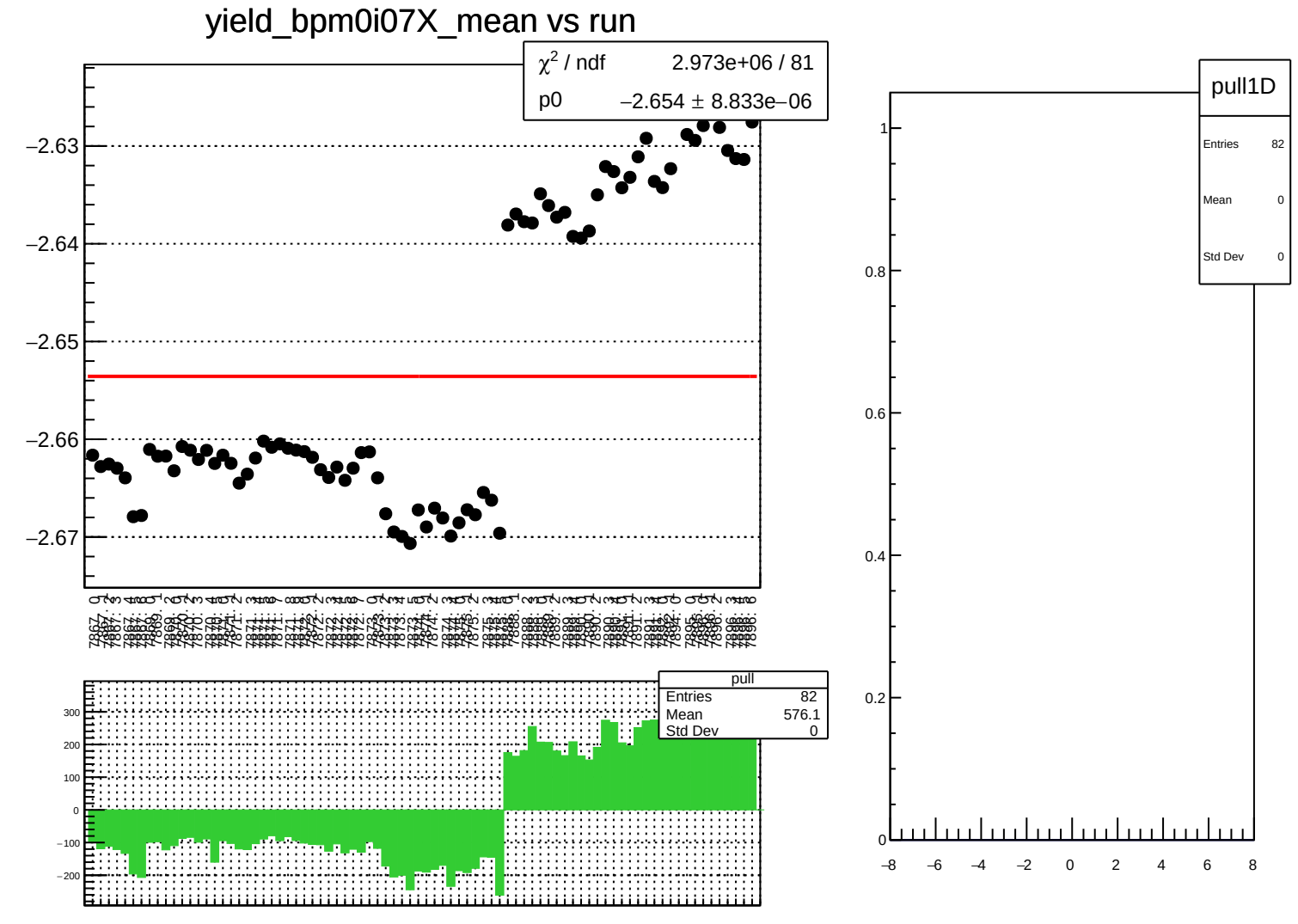

pull1D
Entries 82
Mean 3.452
Std Dev 3.899

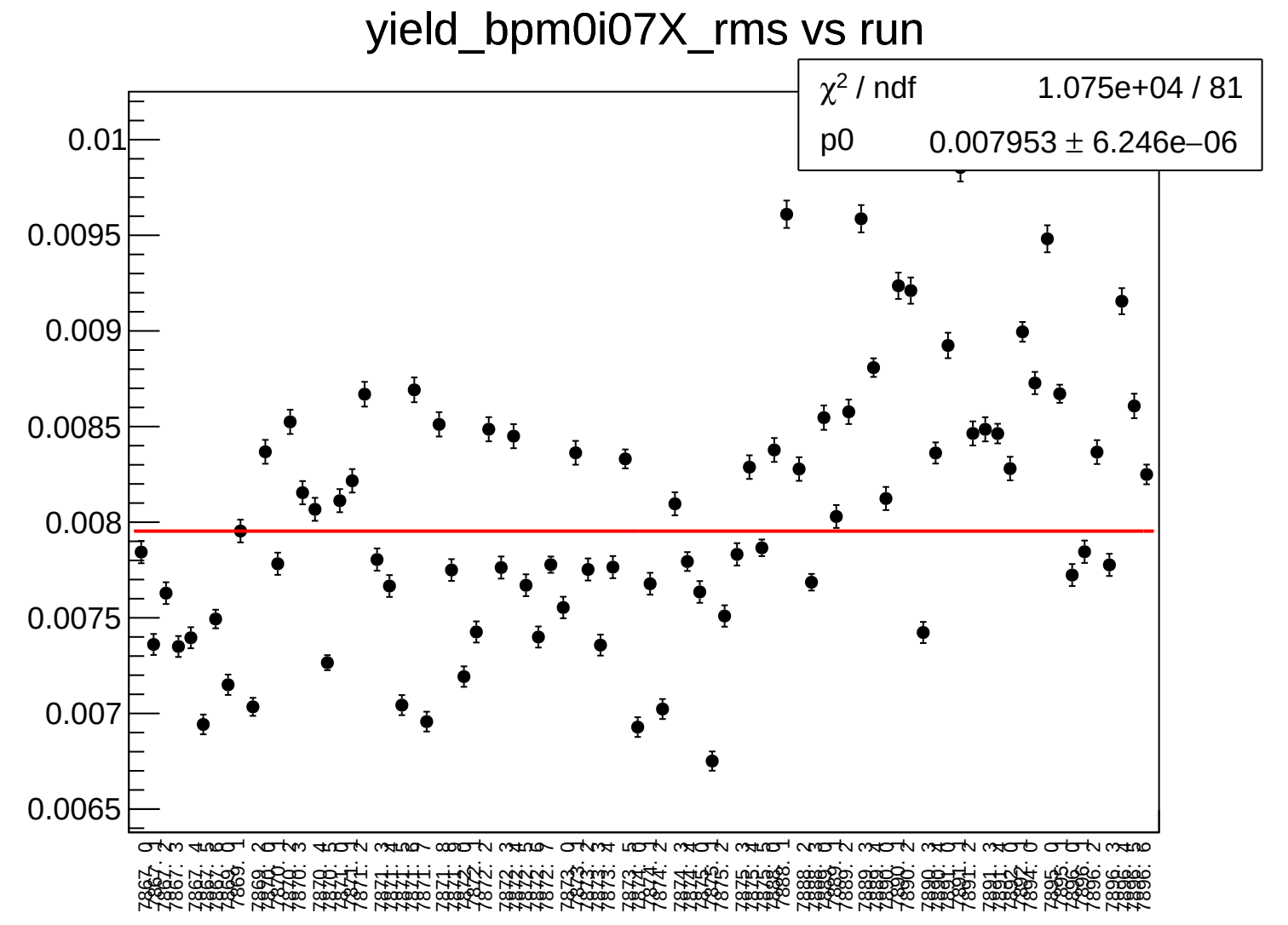

yield_bpm0i05X_rms vs run
χ² / ndf 1.318e+05 / 81
p0 0.005071 ± 4.14e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

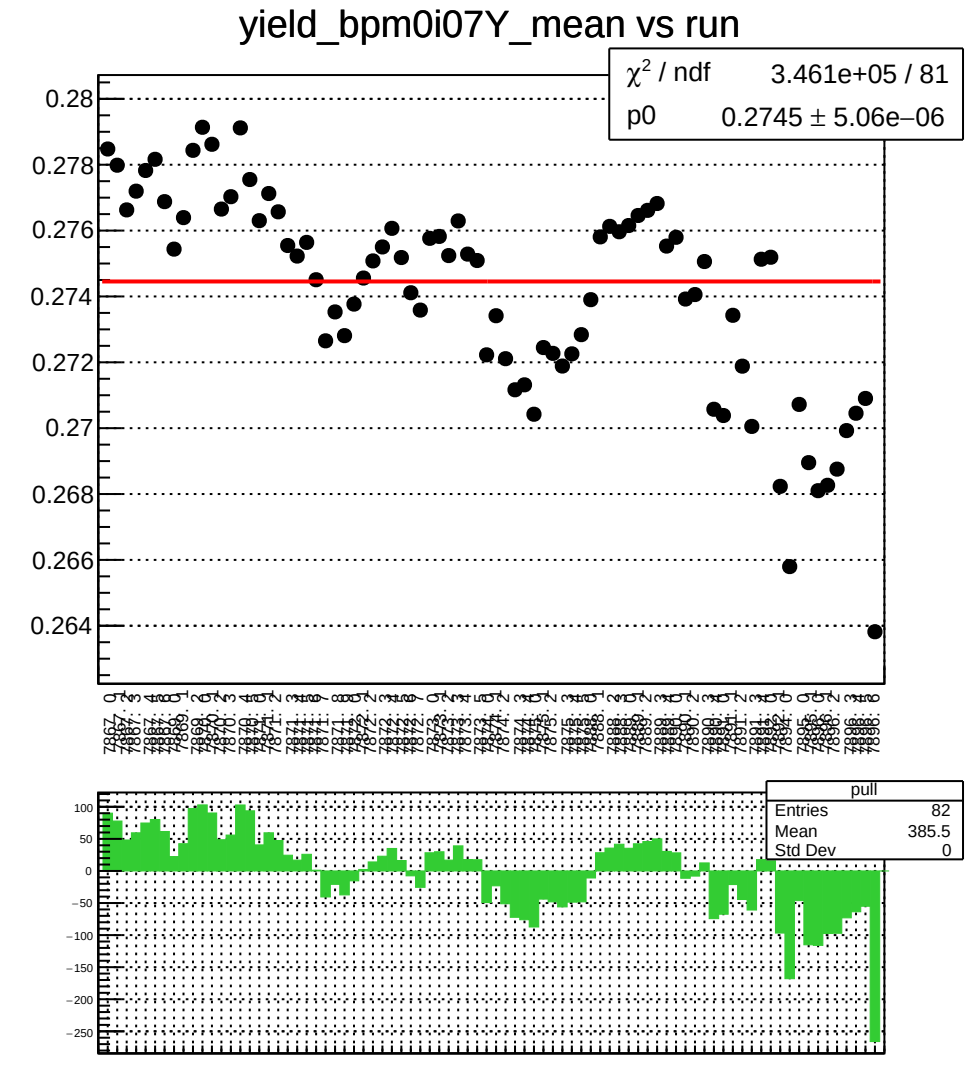

yield_bpm0i05Y_mean vs run
χ² / ndf 6.857e+06 / 81
p0 −1.166 ± 4.578e−06
−1.13
−1.14
−1.15
−1.16
−1.17
−1.18
pull
Entries 82
Mean −298.1
Std Dev 0
800
600
400
200
0
−200
−400

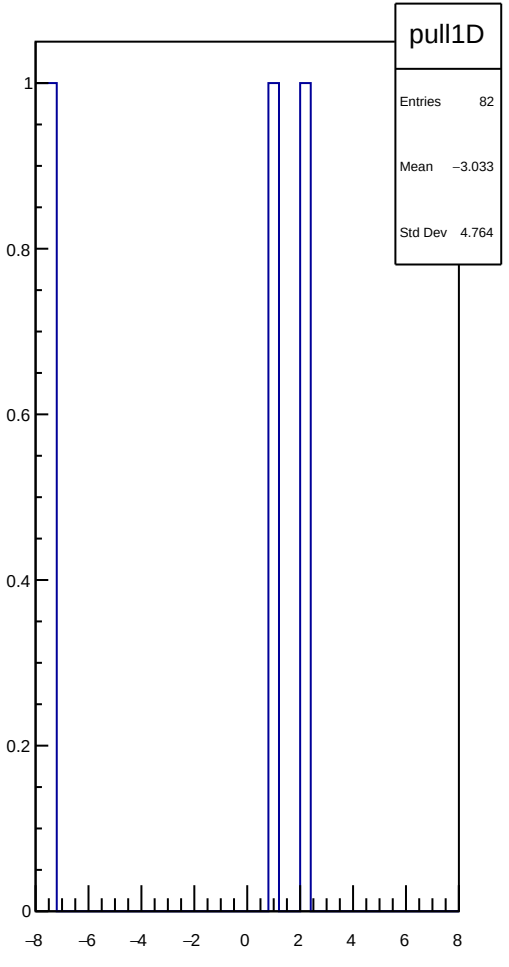

pull1D
Entries 82
Mean −0.3168
Std Dev 4.725
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

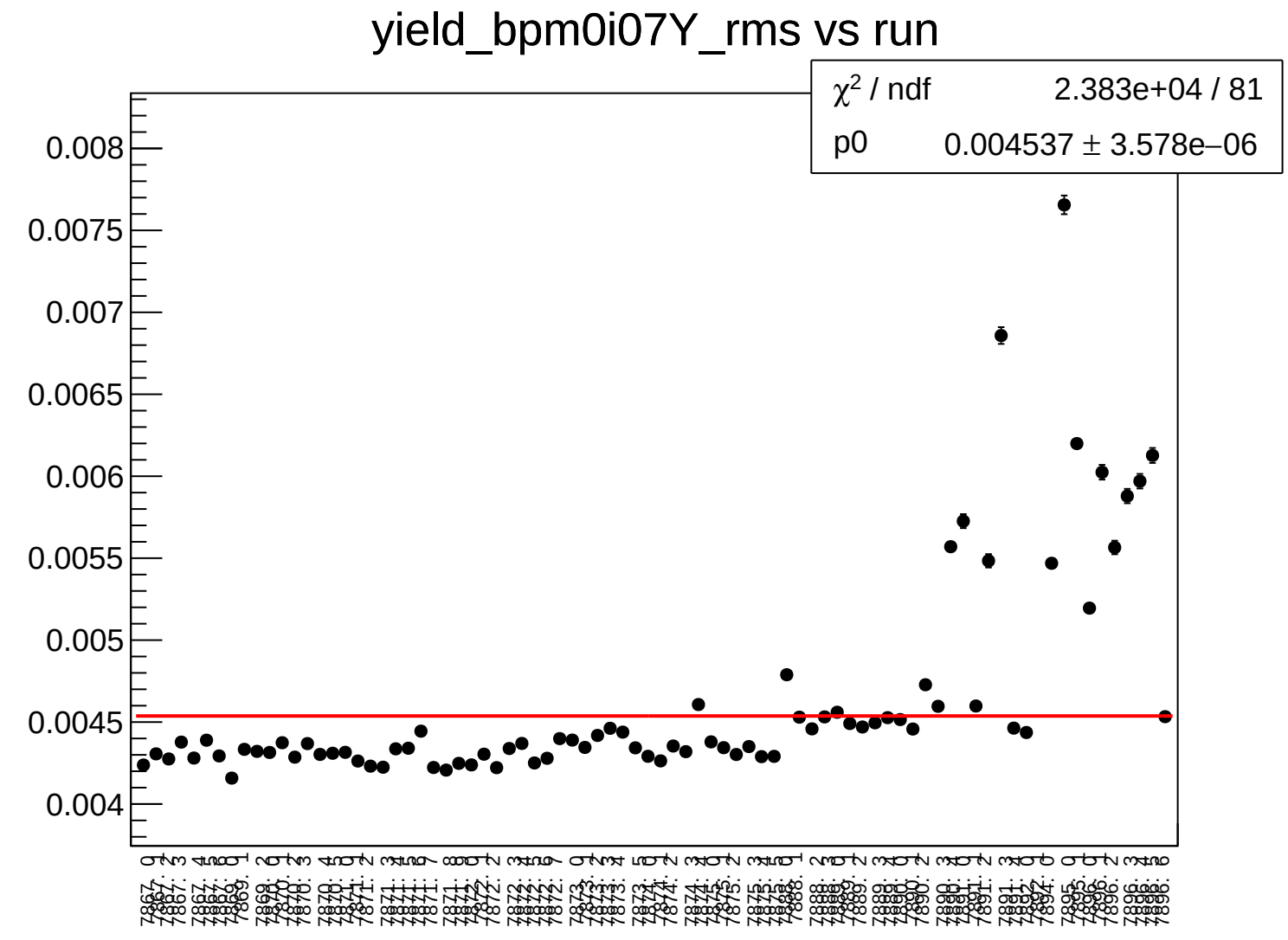

yield_bpm0i05Y_rms vs run
χ^2 / ndf 1.03e+05 / 81
p0 0.004003 ± 3.237e−06
0.012
0.01
0.008
0.006
0.004
0.002

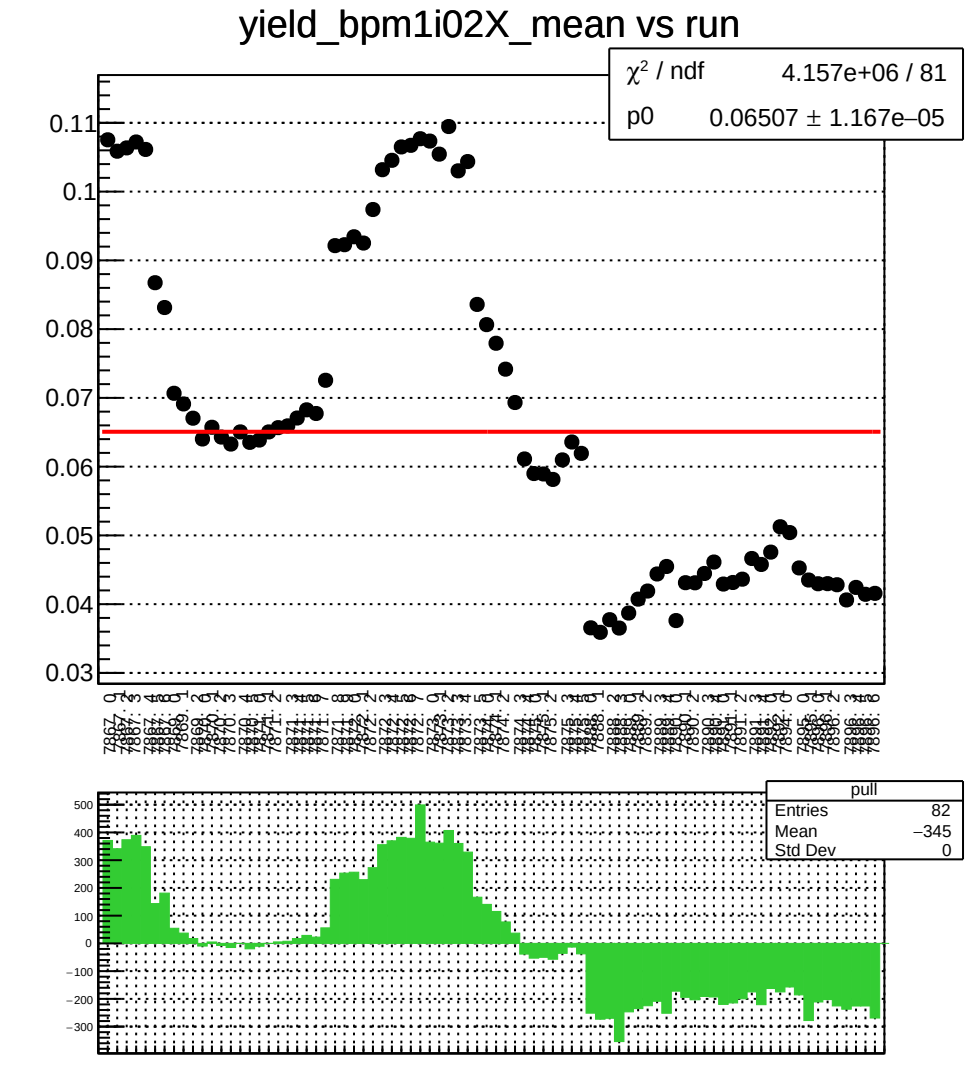

yield_bpm0i07X_mean vs run
χ² / ndf 2.973e+06 / 81
p0 −2.654 ± 8.833e−06
−2.63
−2.64
−2.65
−2.66
−2.67
pull
Entries 82
Mean 576.1
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

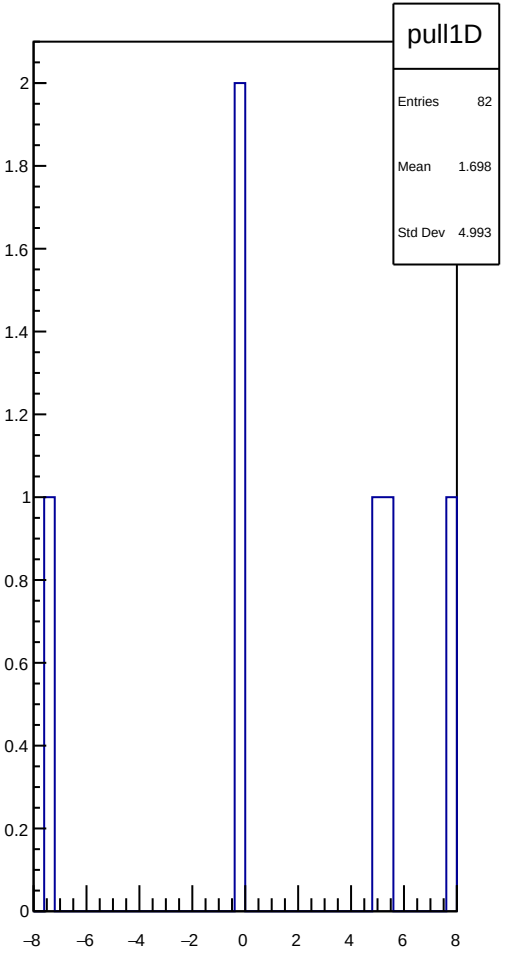

yield_bpm0i07X_rms vs run
χ² / ndf 1.075e+04 / 81
p0 0.007953 ± 6.246e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

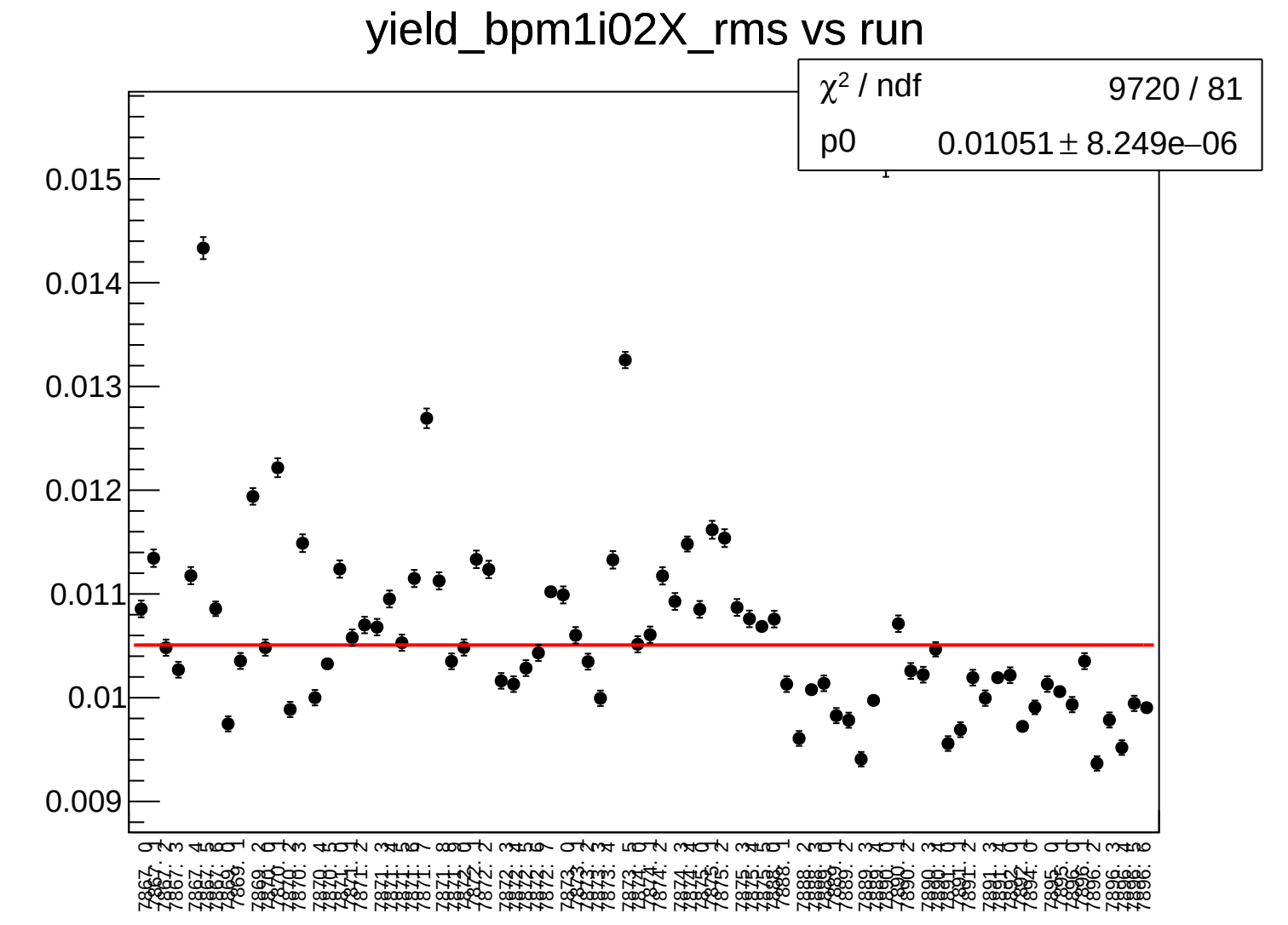

yield_bpm0i07Y_mean vs run
χ² / ndf 3.461e+05 / 81
p0 0.2745 ± 5.06e−06
0.28
0.278
0.276
0.274
0.272
0.27
0.268
0.266
0.264
pull
Entries 82
Mean 385.5
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

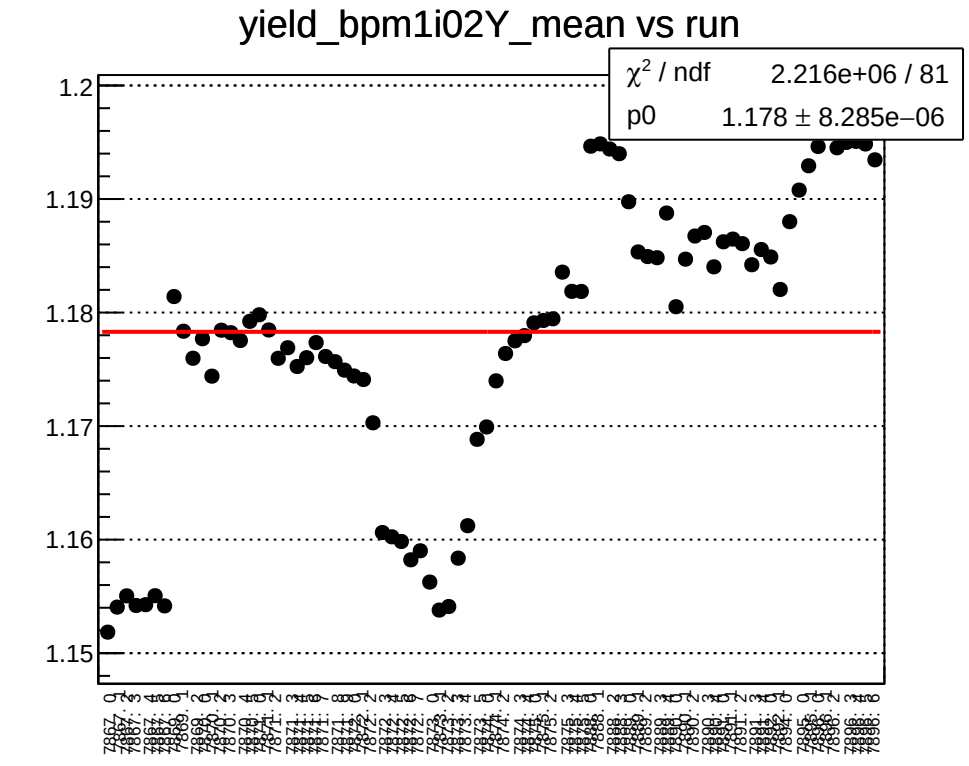

pull1D
Entries 82
Mean −3.033
Std Dev 4.764
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

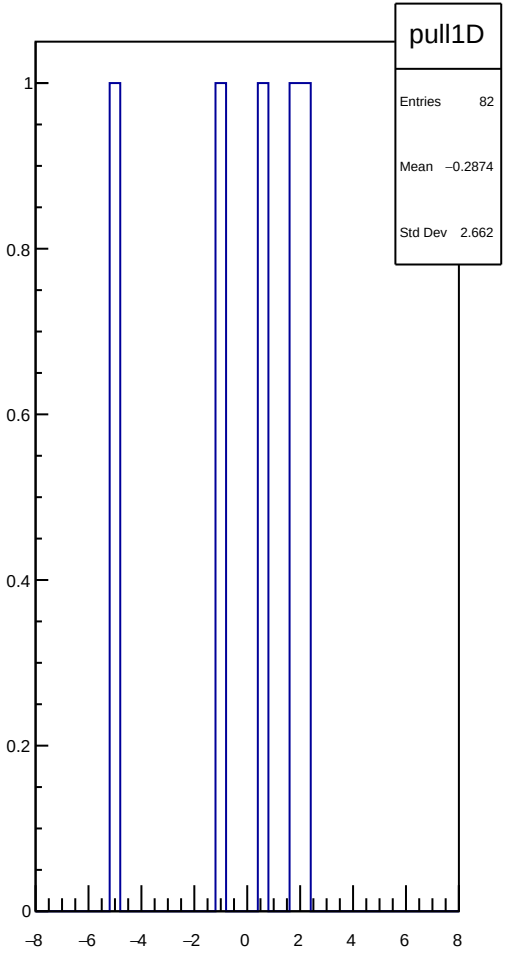

yield_bpm0i07Y_rms vs run
χ² / ndf 2.383e+04 / 81
p0 0.004537 ± 3.578e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

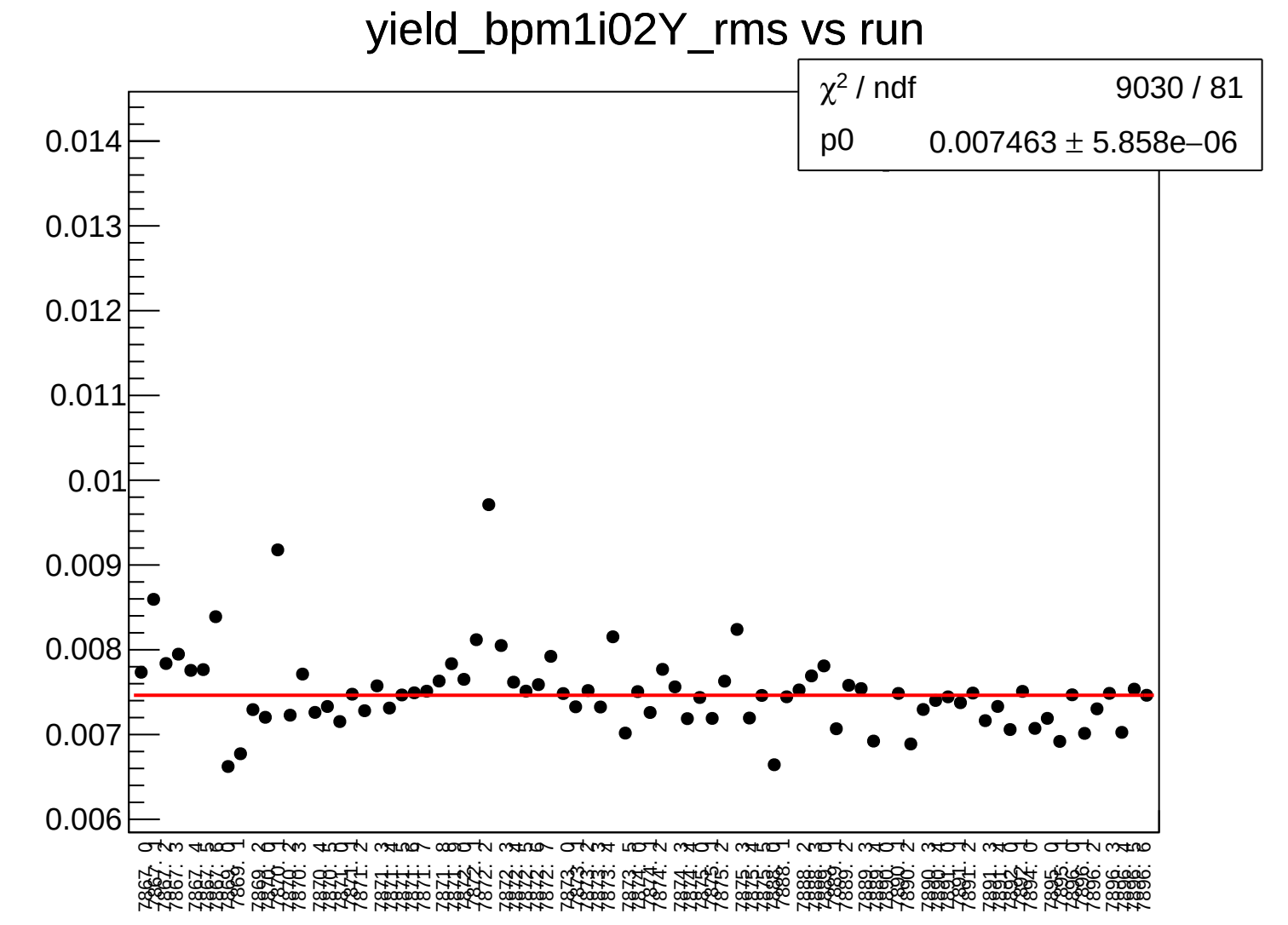

yield_bpm1i02X_mean vs run
χ² / ndf 4.157e+06 / 81
p0 0.06507 ± 1.167e−05
pull
Entries 82
Mean −345
Std Dev 0

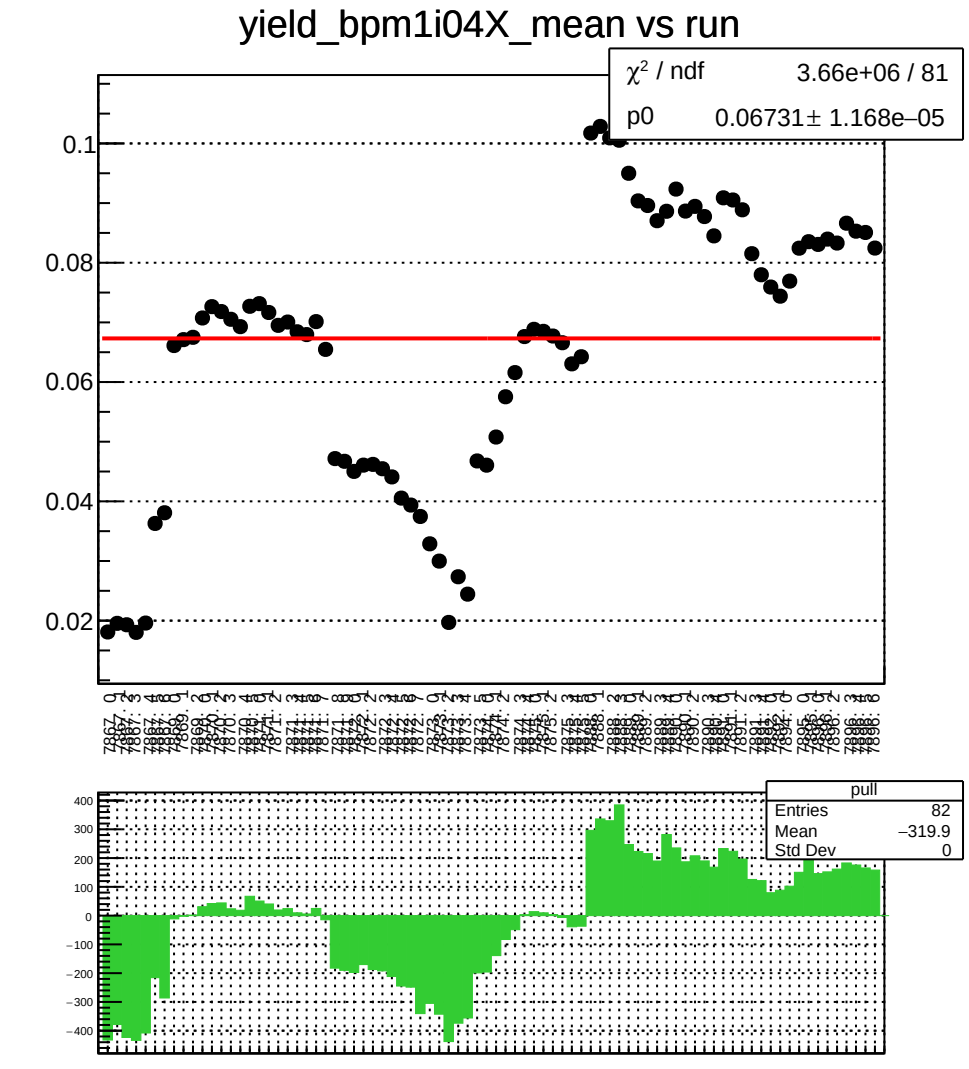

pull1D
Entries 82
Mean 1.698
Std Dev 4.993

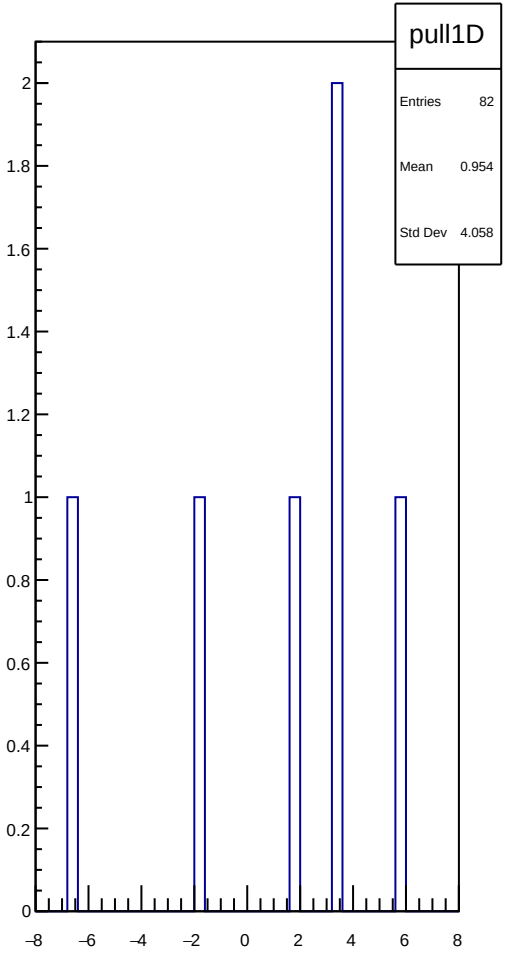

yield_bpm1i02X_rms vs run
χ² / ndf 9720 / 81
p0 0.01051 ± 8.249e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

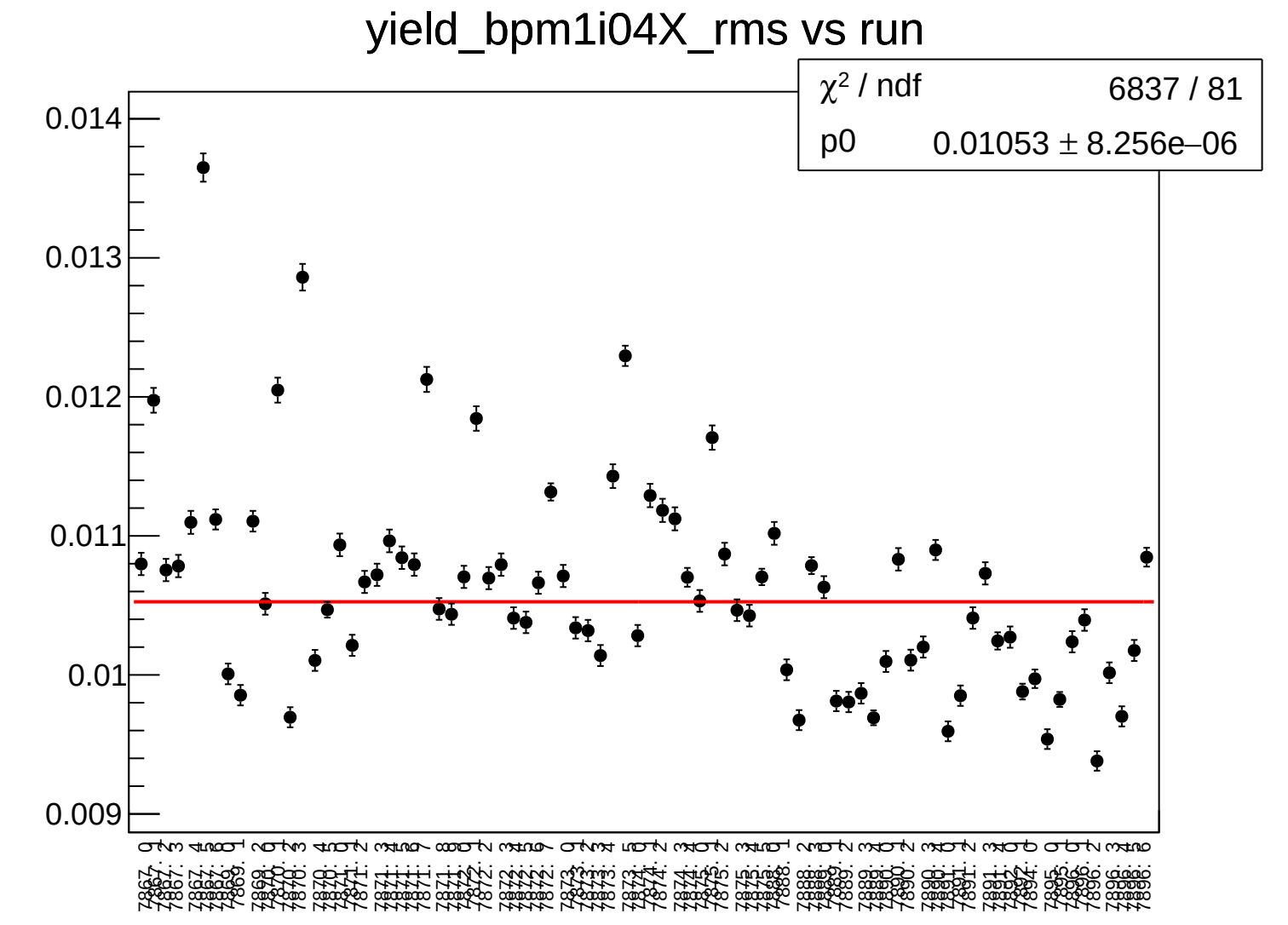

yield_bpm1i02Y_mean vs run
χ² / ndf 2.216e+06 / 81
p0 1.178 ± 8.285e−06
1.2
1.19
1.18
1.17
1.16
1.15
pull
Entries 82
Mean −383.4
Std Dev 0
300
200
100
0
−100
−200
−300

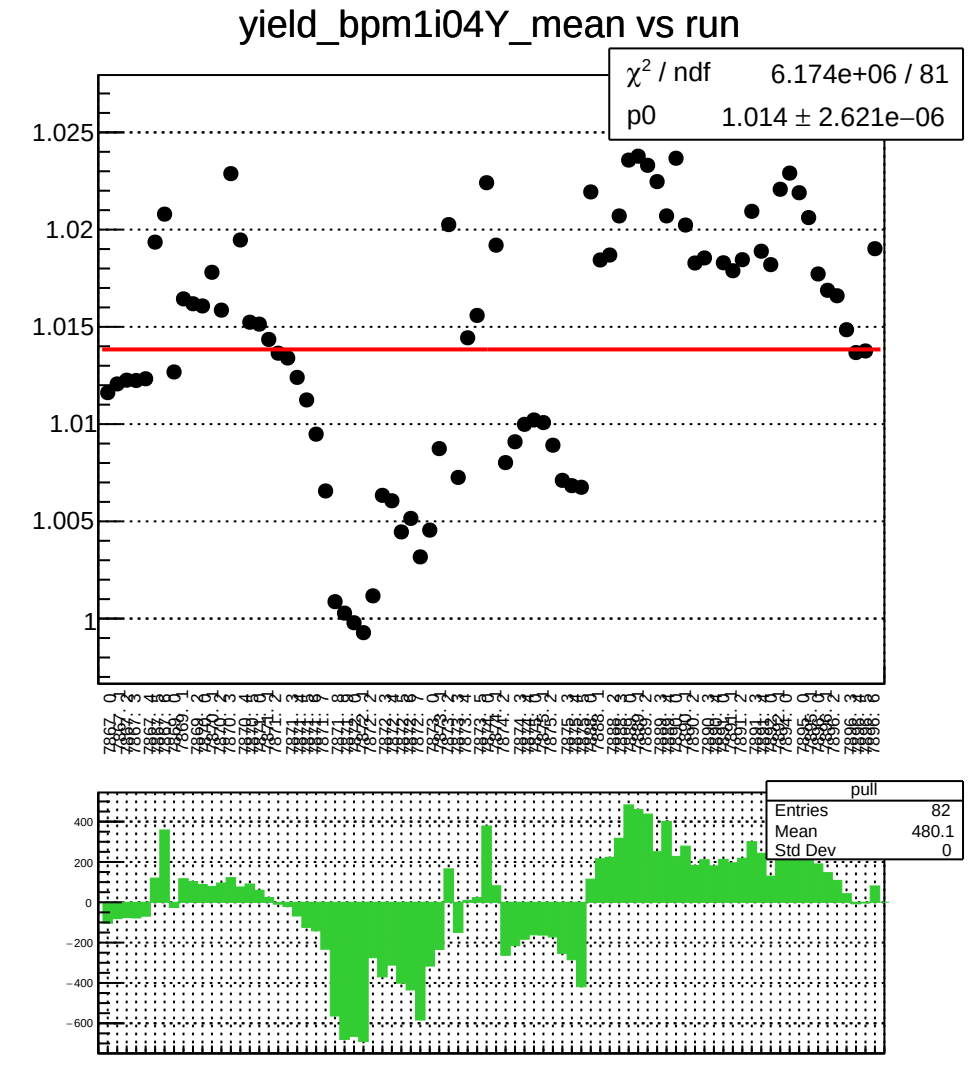

pull1D
Entries 82
Mean −0.2874
Std Dev 2.662
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

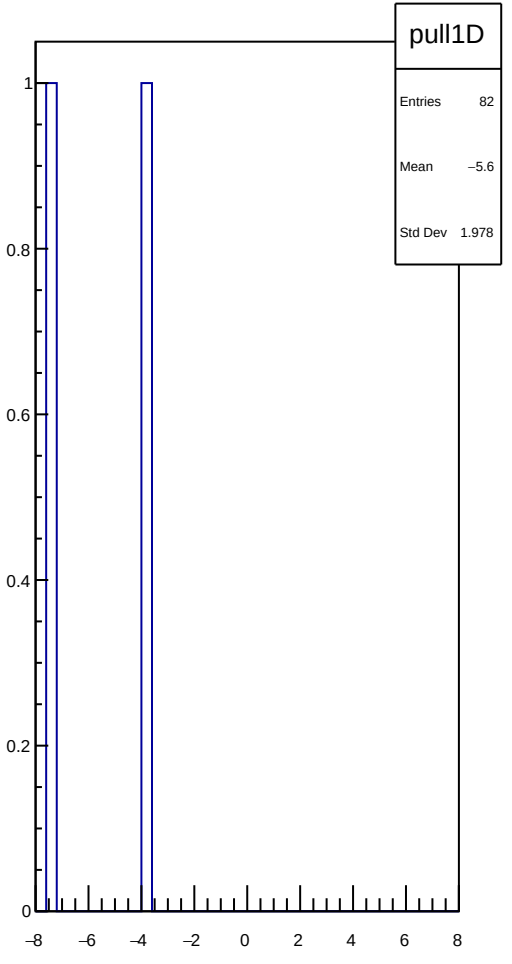

yield_bpm1i02Y_rms vs run
χ² / ndf 9030 / 81
p0 0.007463 ± 5.858e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

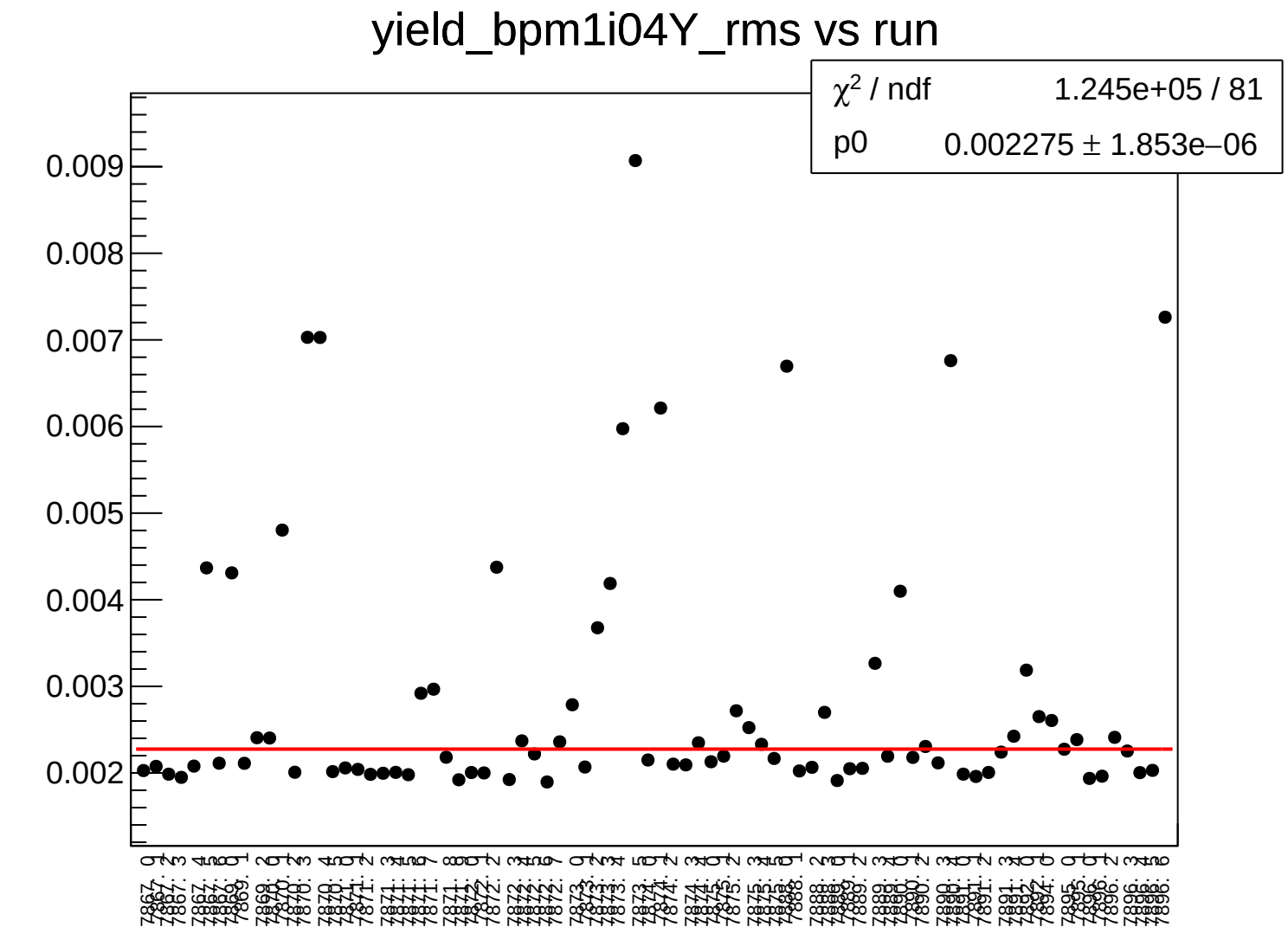

yield_bpm1i04X_mean vs run
χ² / ndf 3.66e+06 / 81
p0 0.06731± 1.168e–05
0.1
0.08
0.06
0.04
0.02
pull
Entries 82
Mean –319.9
Std Dev 0
400
300
200
100
0
–100
–200
–300
–400

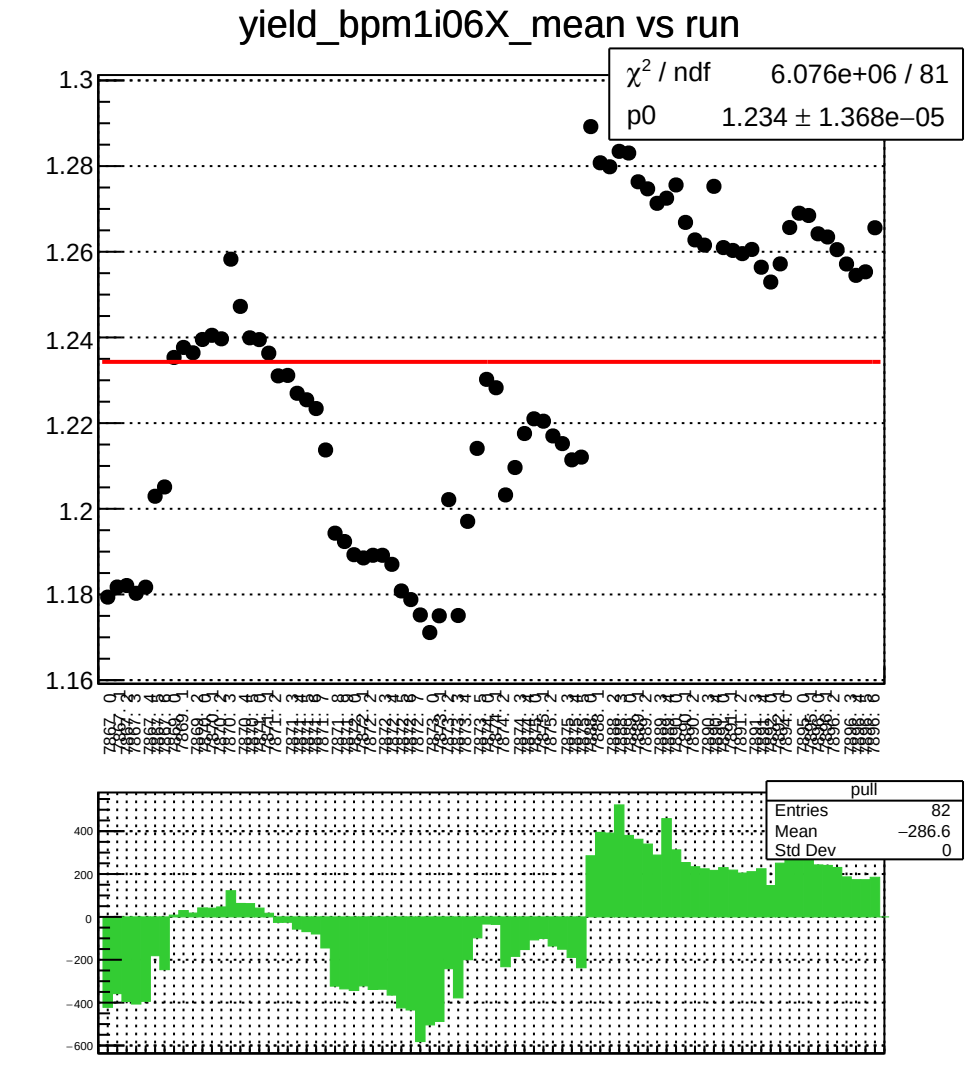

pull1D
Entries 82
Mean 0.954
Std Dev 4.058
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

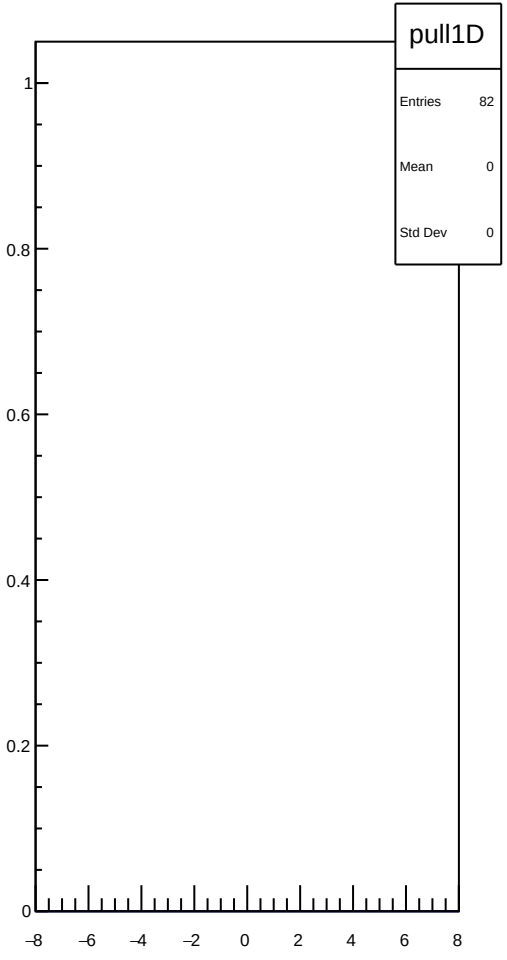

yield_bpm1i04X_rms vs run
χ² / ndf 6837 / 81
p0 0.01053 ± 8.256e–06
0.014
0.013
0.012
0.011
0.01
0.009

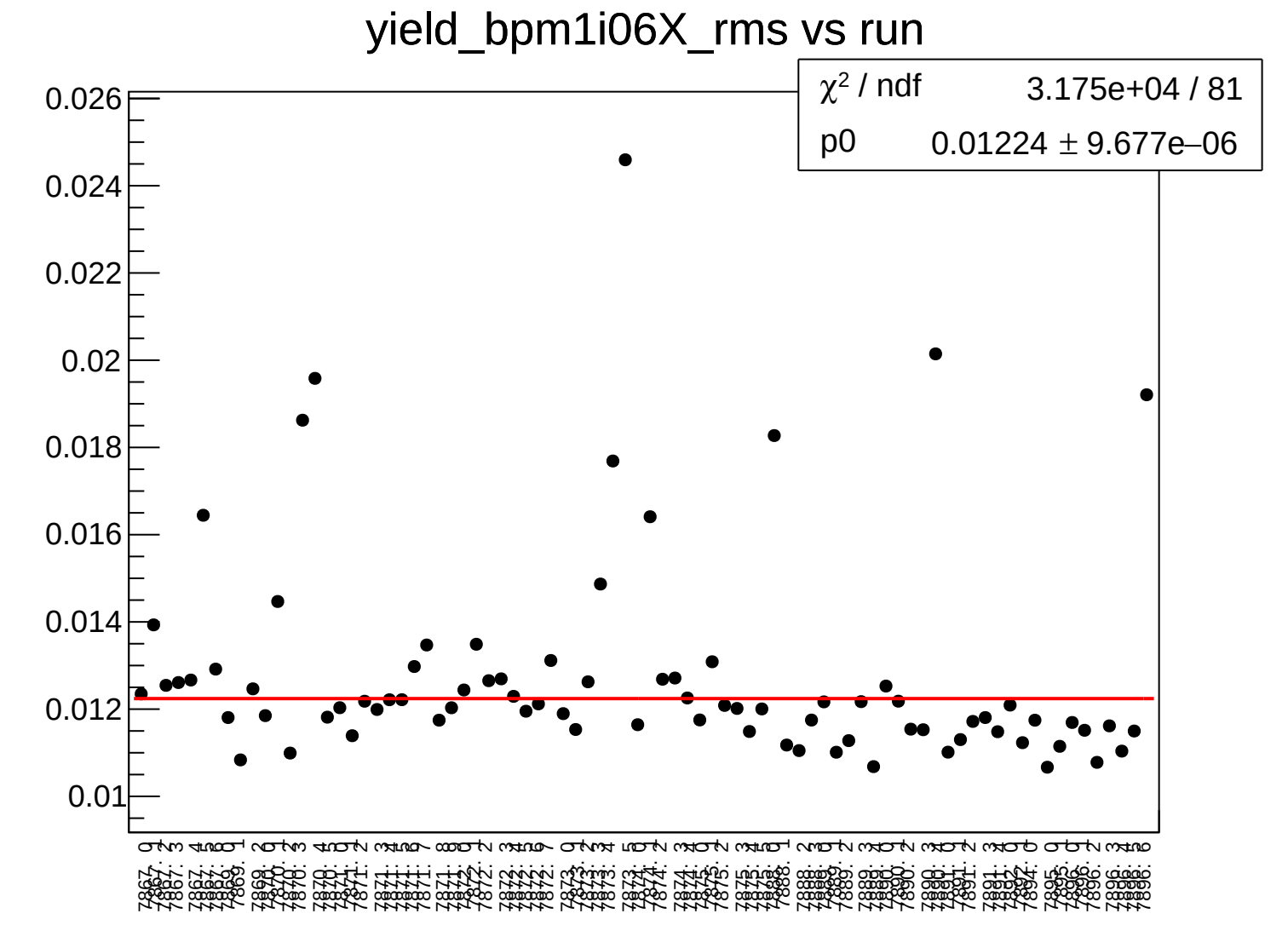

yield_bpm1i04Y_mean vs run
χ² / ndf 6.174e+06 / 81
p0 1.014 ± 2.621e−06
1.025
1.02
1.015
1.01
1.005
1
pull
Entries 82
Mean 480.1
Std Dev 0
400
200
0
−200
−400
−600

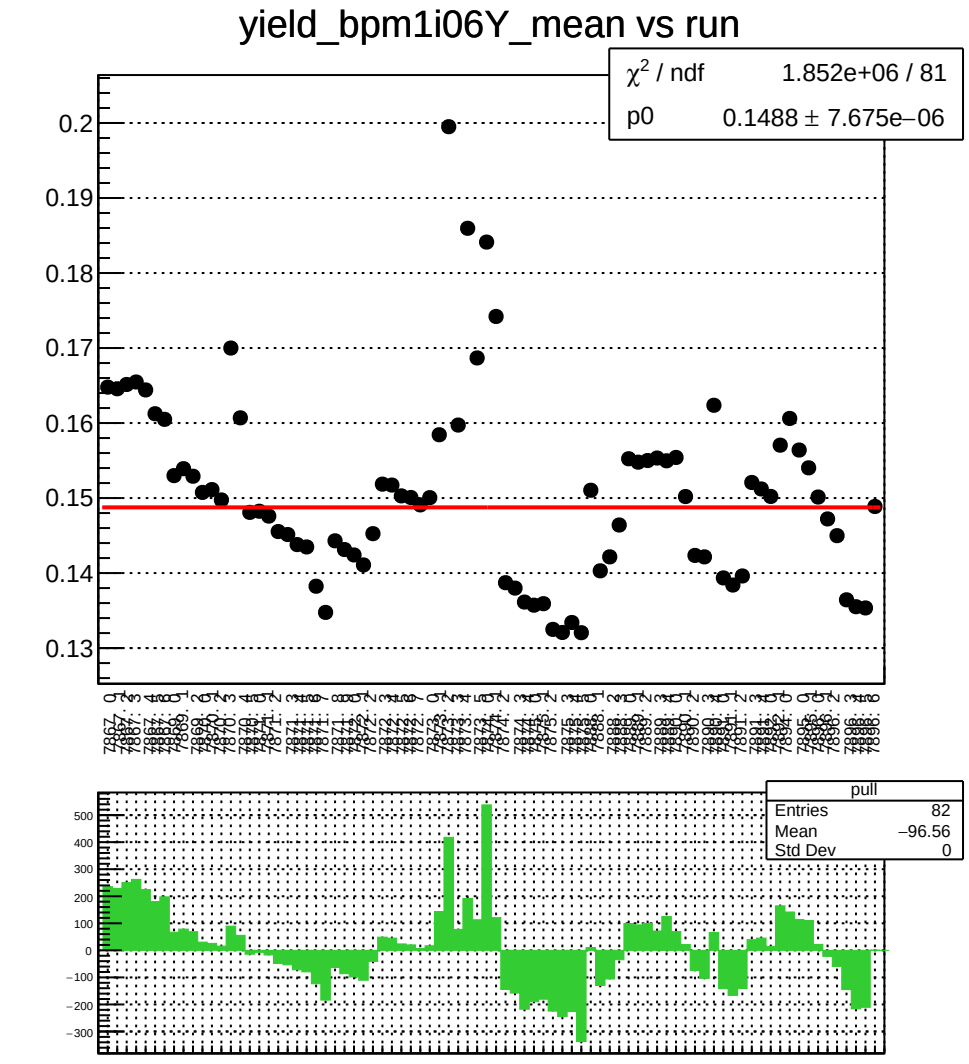

pull1D
Entries 82
Mean −5.6
Std Dev 1.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

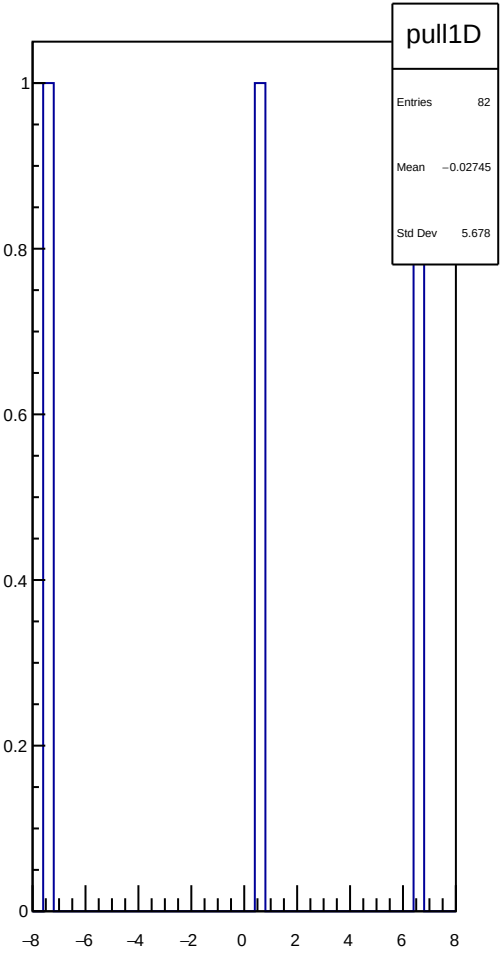

yield_bpm1i04Y_rms vs run
χ² / ndf 1.245e+05 / 81
p0 0.002275 ± 1.853e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

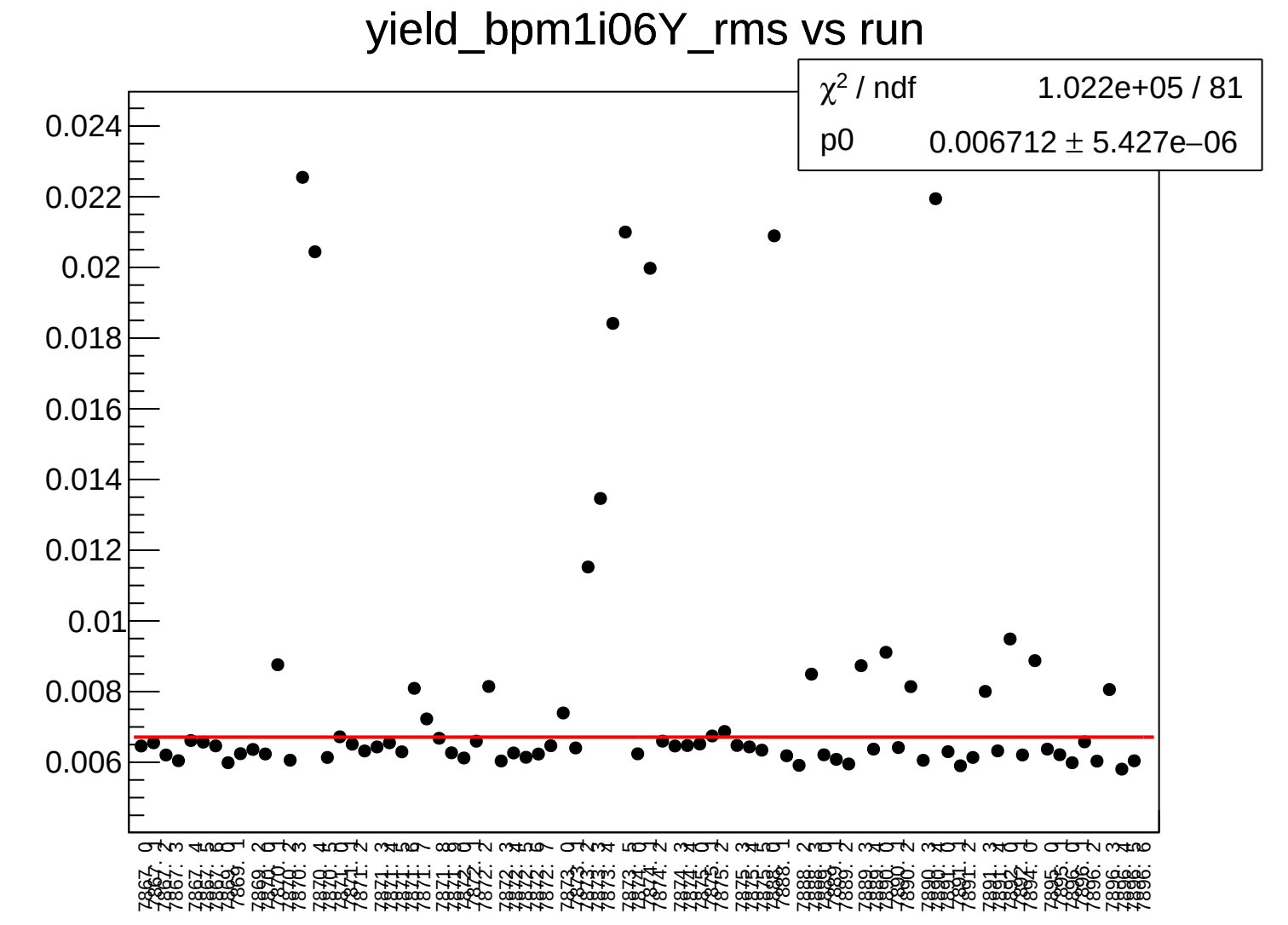

yield_bpm1i06X_mean vs run
χ² / ndf 6.076e+06 / 81
p0 1.234 ± 1.368e−05
pull
Entries 82
Mean −286.6
Std Dev 0

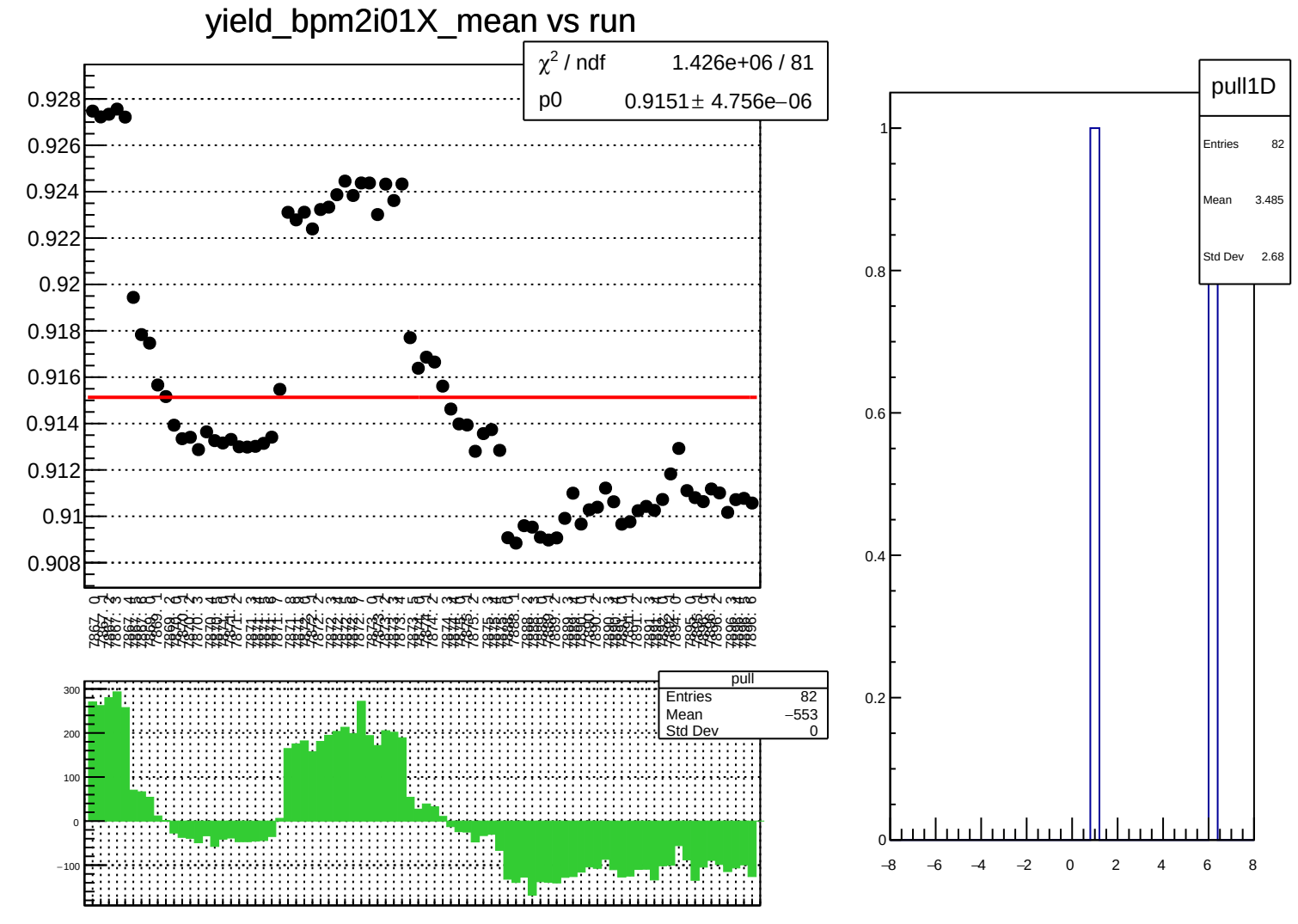

pull1D
Entries 82
Mean 0
Std Dev 0

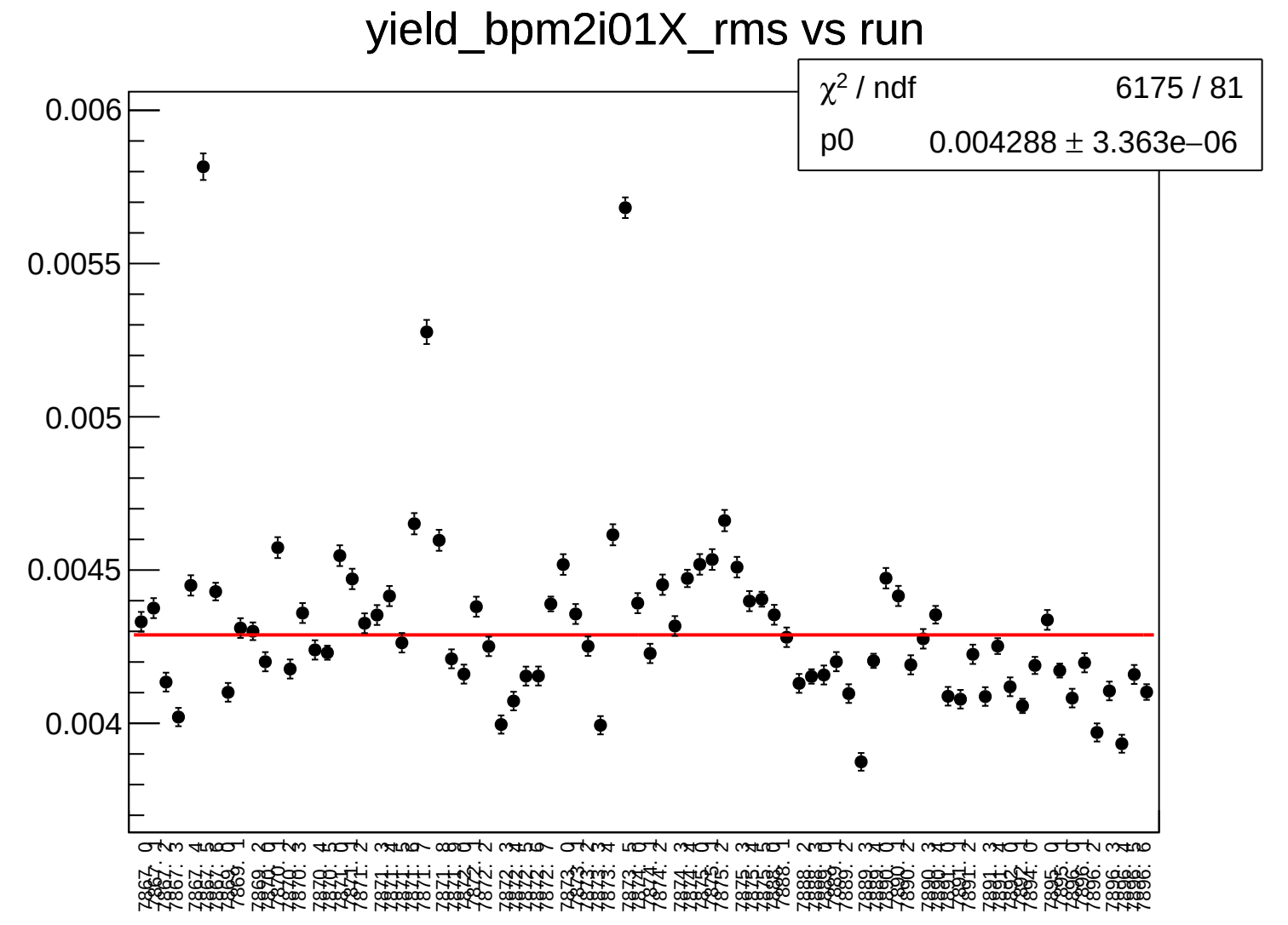

yield_bpm1i06X_rms vs run
χ² / ndf 3.175e+04 / 81
p0 0.01224 ± 9.677e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

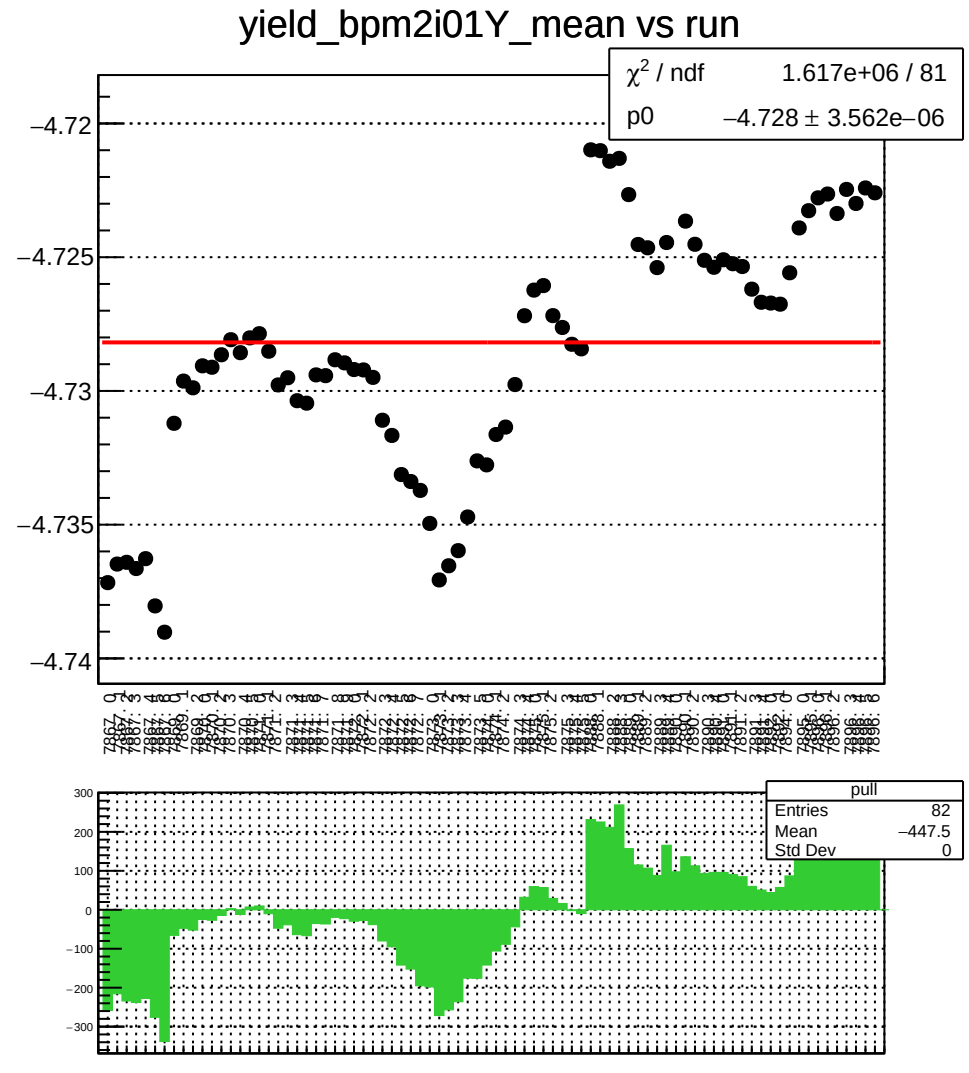

yield_bpm1i06Y_mean vs run
χ² / ndf 1.852e+06 / 81
p0 0.1488 ± 7.675e−06
0.2
0.19
0.18
0.17
0.16
0.15
0.14
0.13
pull
Entries 82
Mean −96.56
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

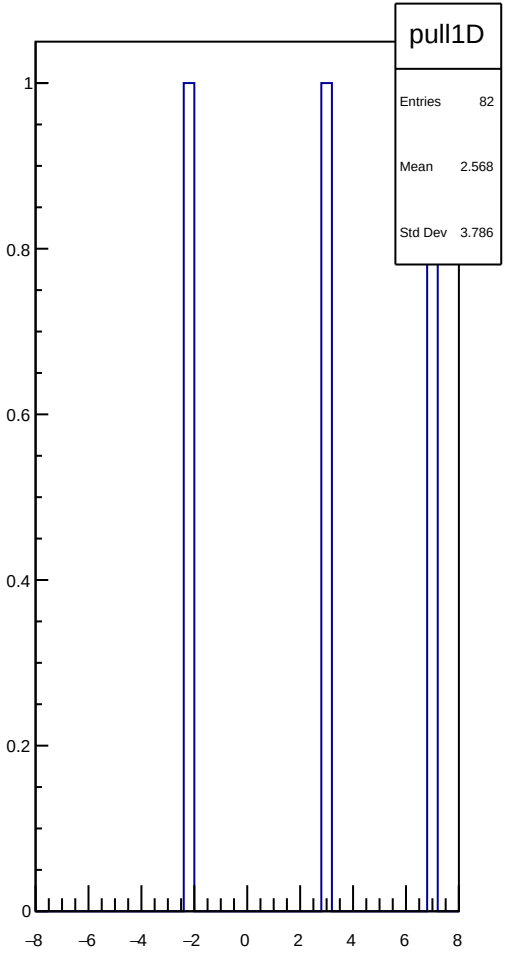

pull1D
Entries 82
Mean −0.02745
Std Dev 5.678
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

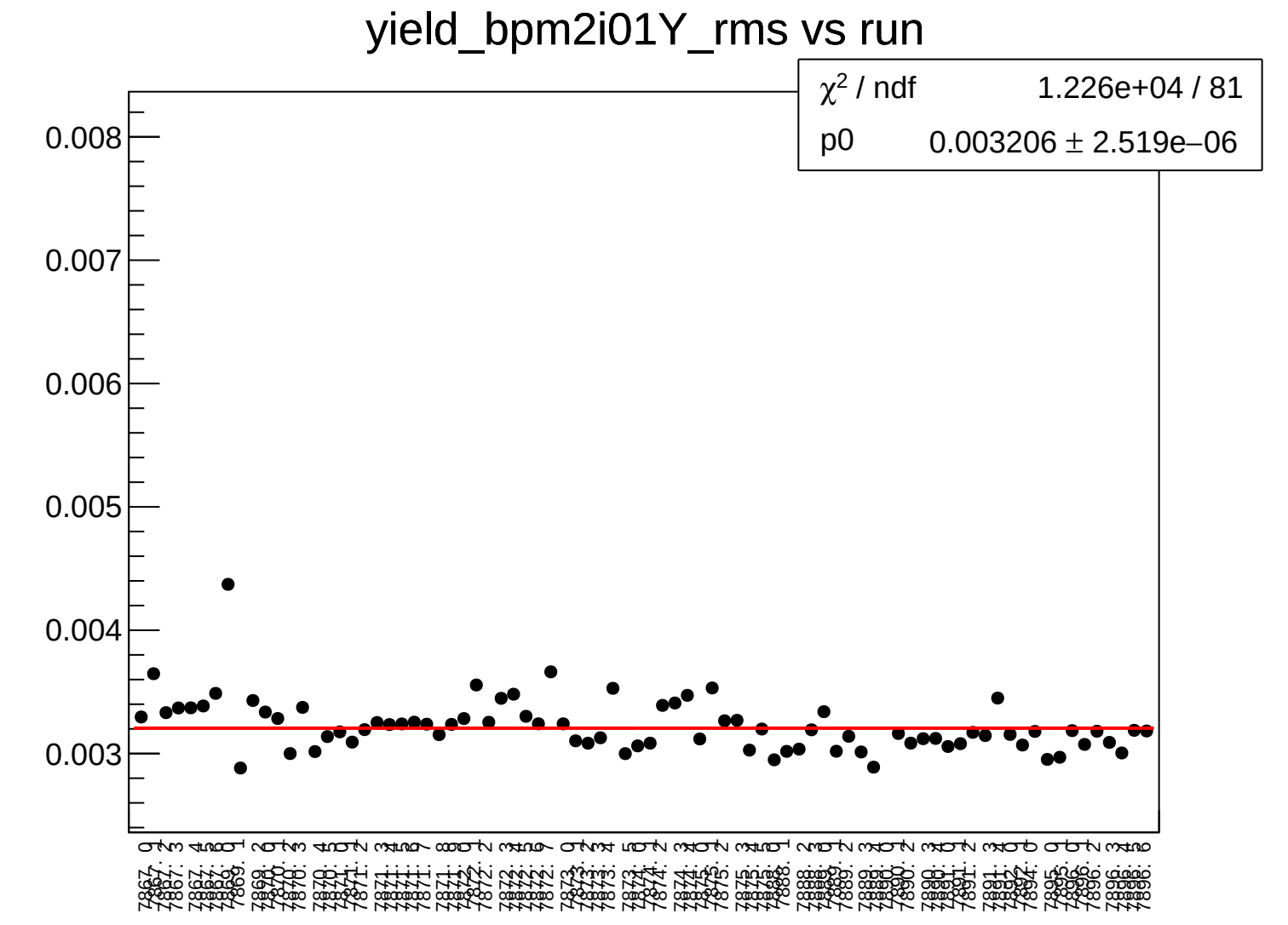

yield_bpm1i06Y_rms vs run
χ² / ndf 1.022e+05 / 81
p0 0.006712 ± 5.427e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

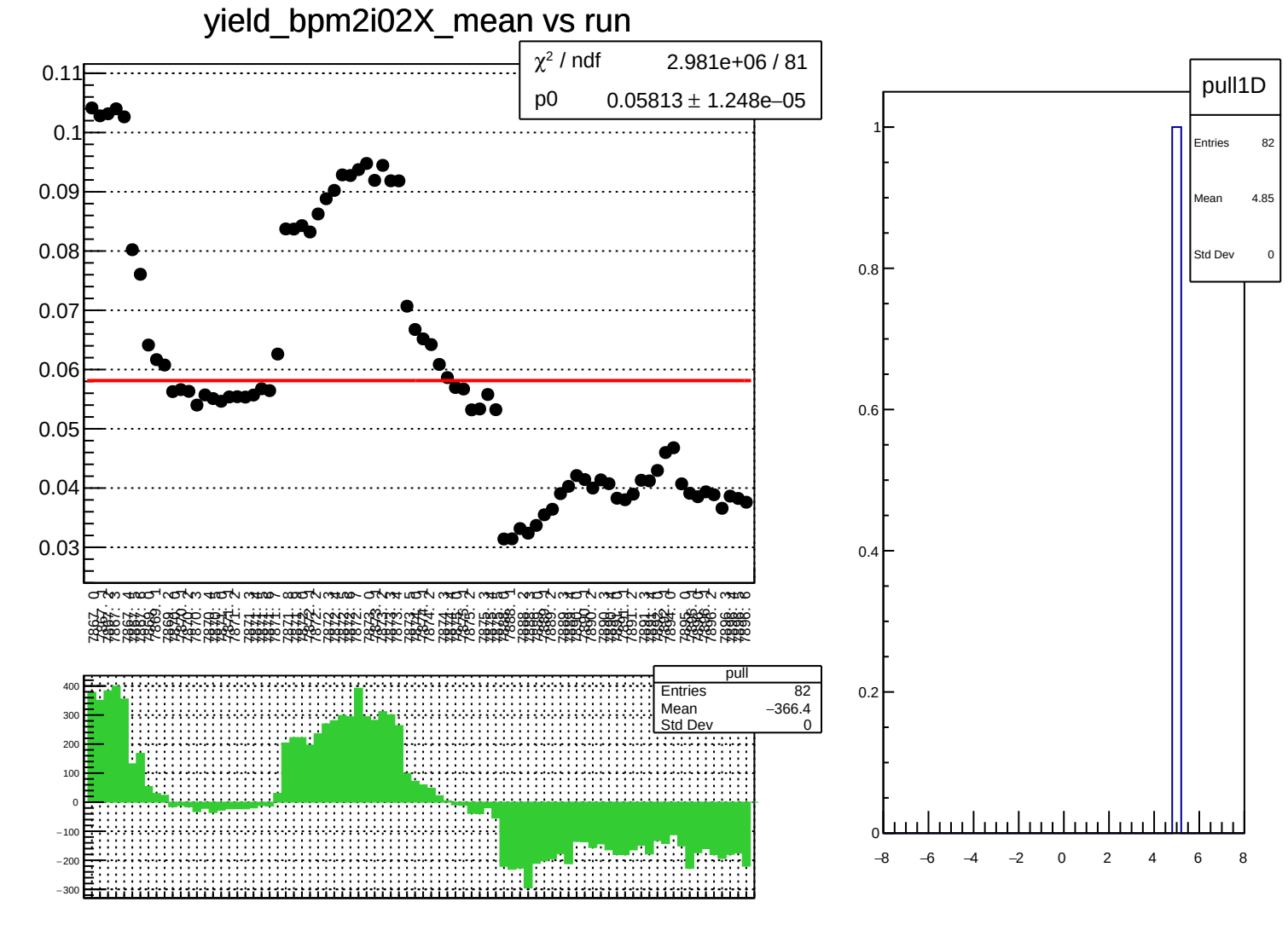

yield_bpm2i01X_mean vs run
χ² / ndf 1.426e+06 / 81
p0 0.9151 ± 4.756e−06
pull
Entries 82
Mean −553
Std Dev 0
pull1D
Entries 82
Mean 3.485
Std Dev 2.68

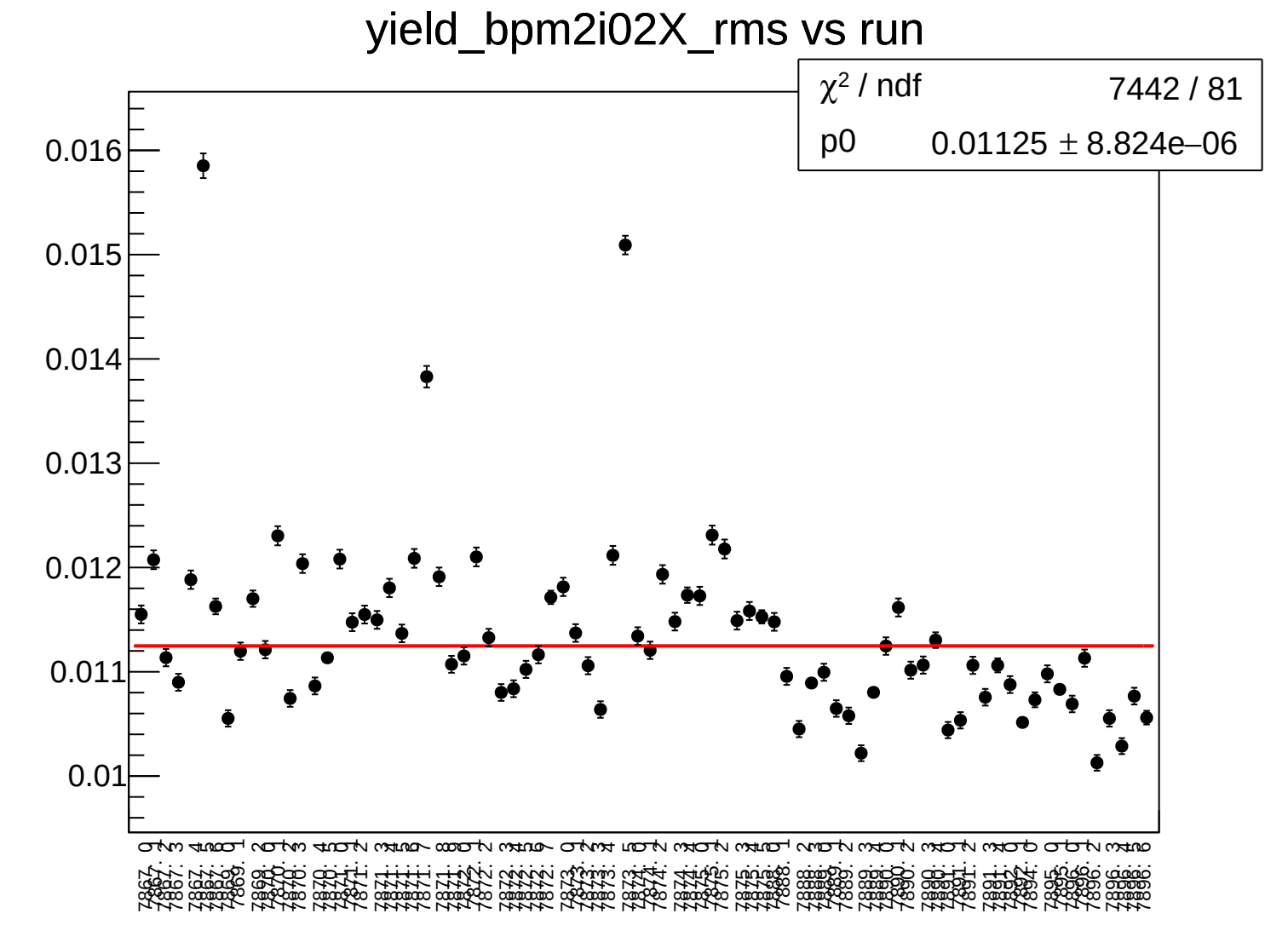

yield_bpm2i01X_rms vs run
χ² / ndf 6175 / 81
p0 0.004288 ± 3.363e−06
0.006
0.0055
0.005
0.0045
0.004

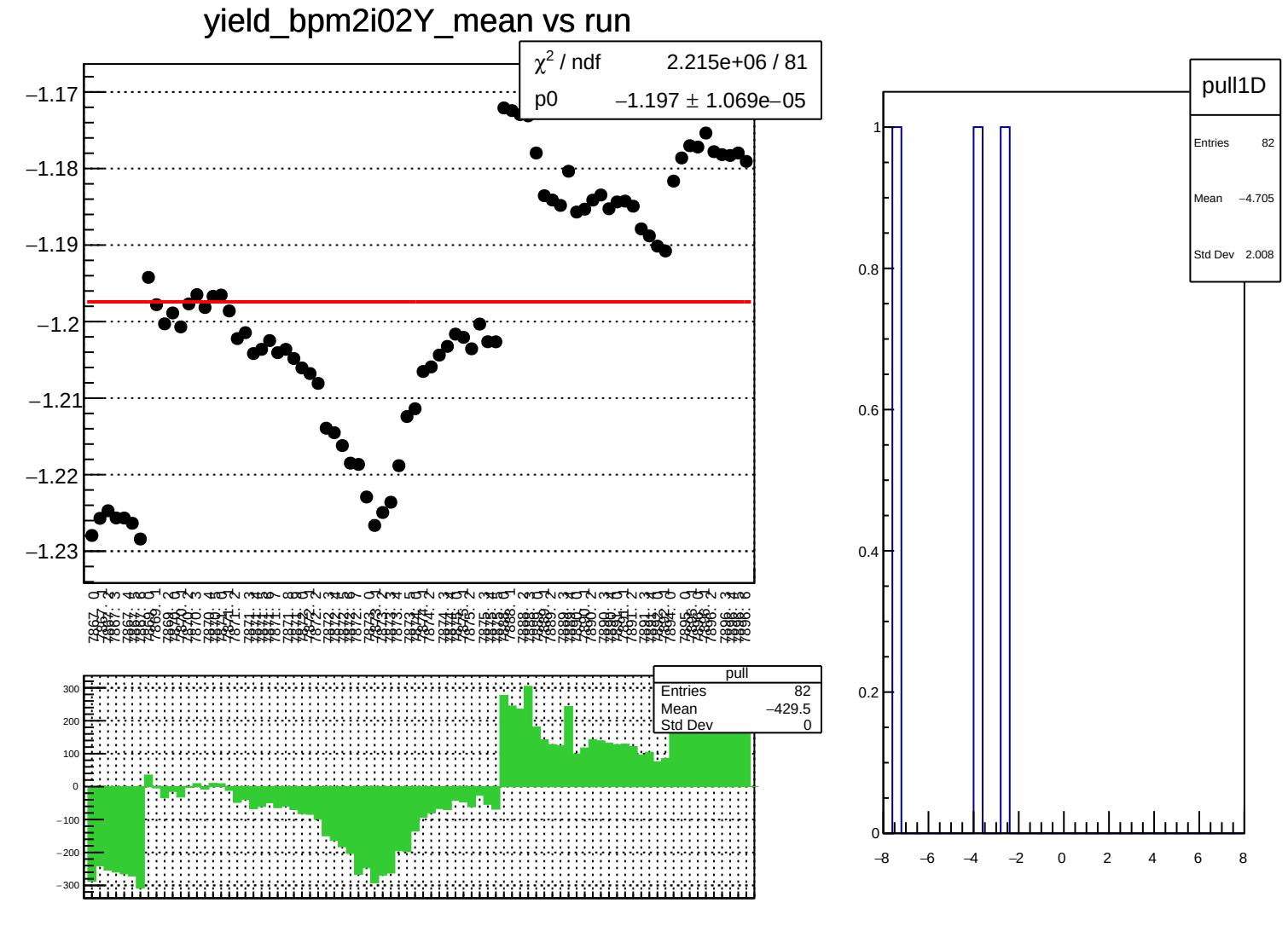

yield_bpm2i01Y_mean vs run
χ² / ndf 1.617e+06 / 81
p0 −4.728 ± 3.562e−06
−4.72
−4.725
−4.73
−4.735
−4.74
pull
Entries 82
Mean −447.5
Std Dev 0
300
200
100
0
−100
−200
−300

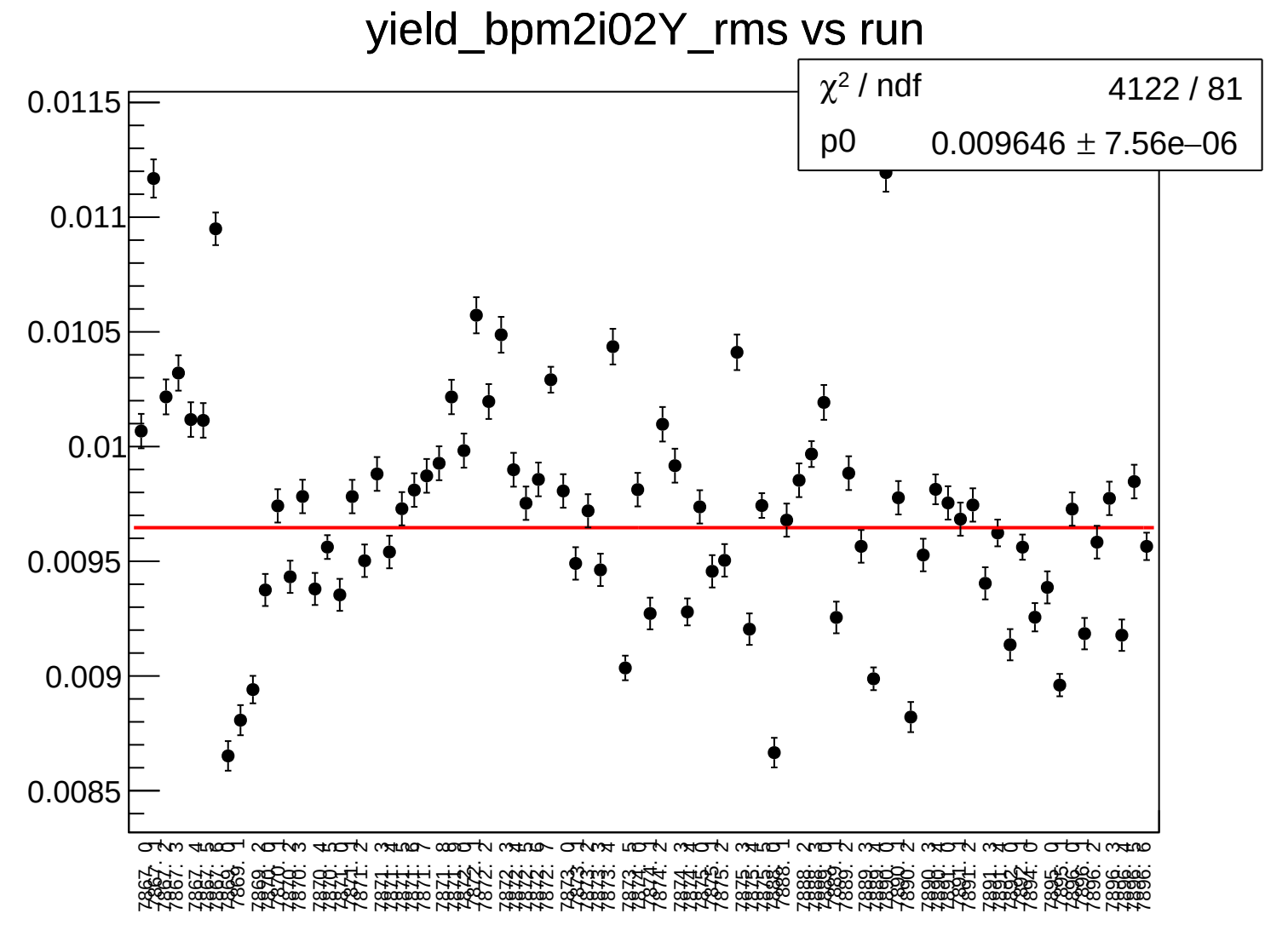

pull1D
Entries 82
Mean 2.568
Std Dev 3.786
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

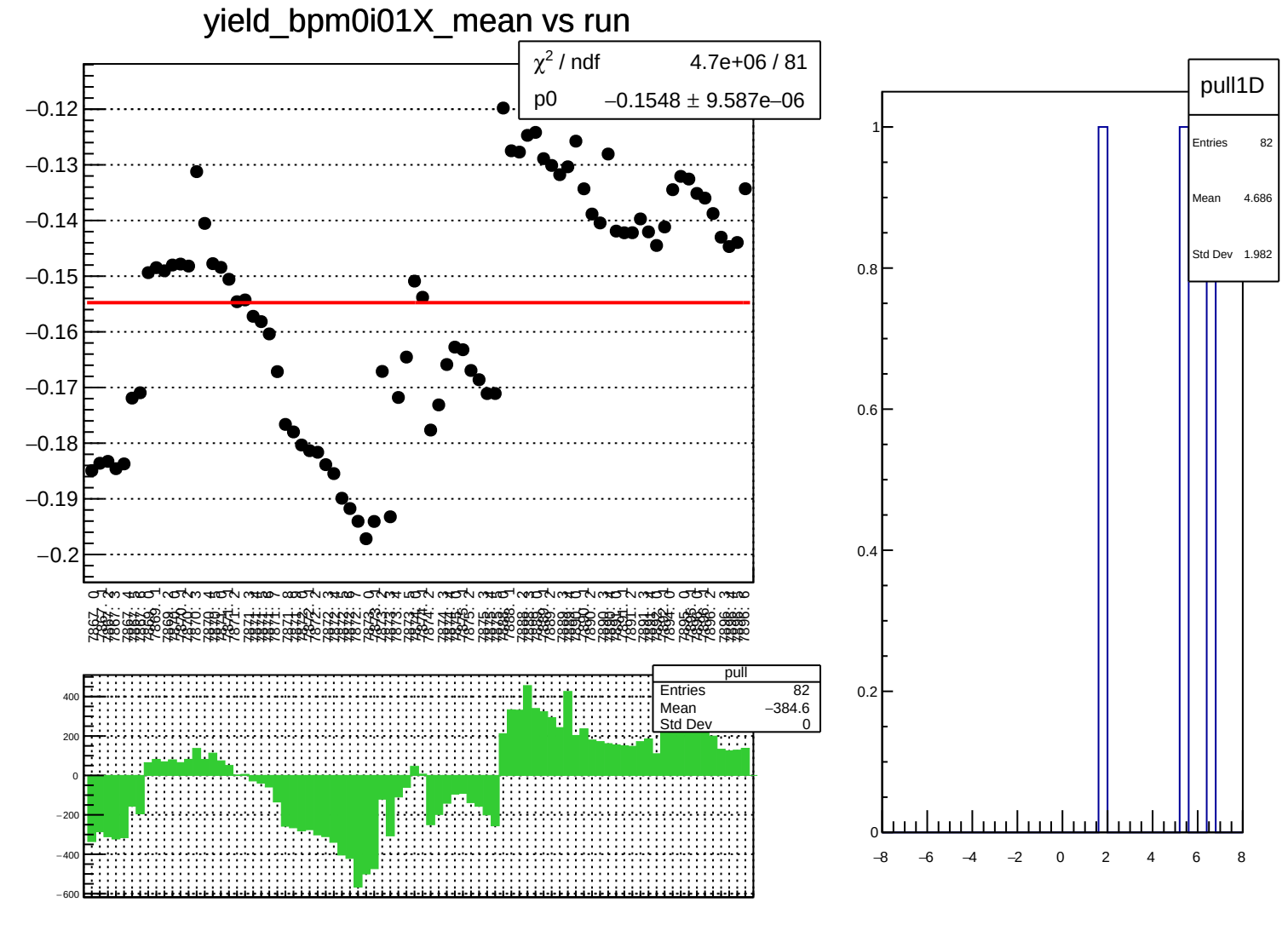

yield_bpm2i01Y_rms vs run
χ² / ndf 1.226e+04 / 81
p0 0.003206 ± 2.519e−06
0.008
0.007
0.006
0.005
0.004
0.003

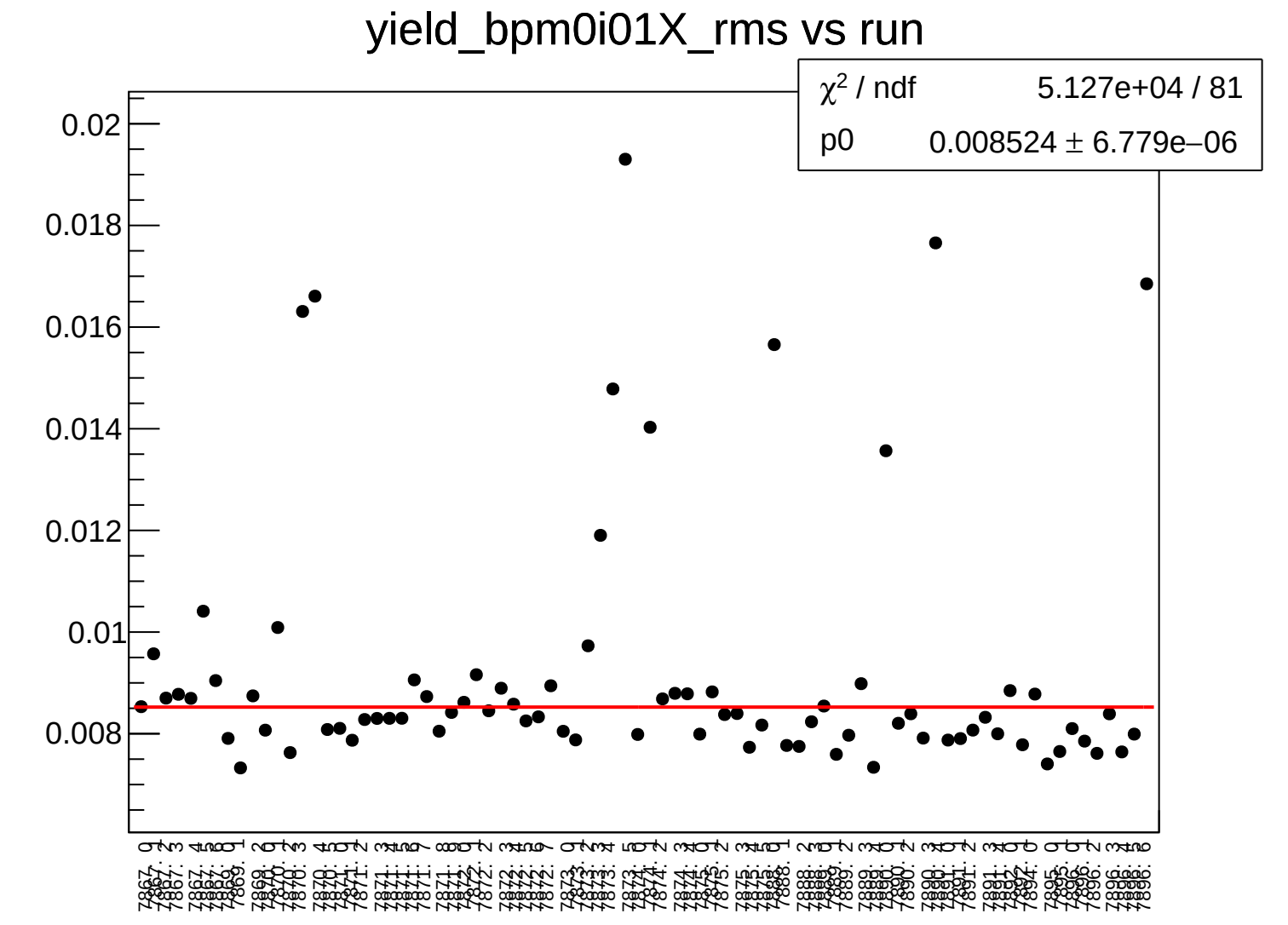

yield_bpm2i02X_mean vs run
χ² / ndf 2.981e+06 / 81
p0 0.05813 ± 1.248e−05
pull
Entries 82
Mean −366.4
Std Dev 0
pull1D
Entries 82
Mean 4.85
Std Dev 0

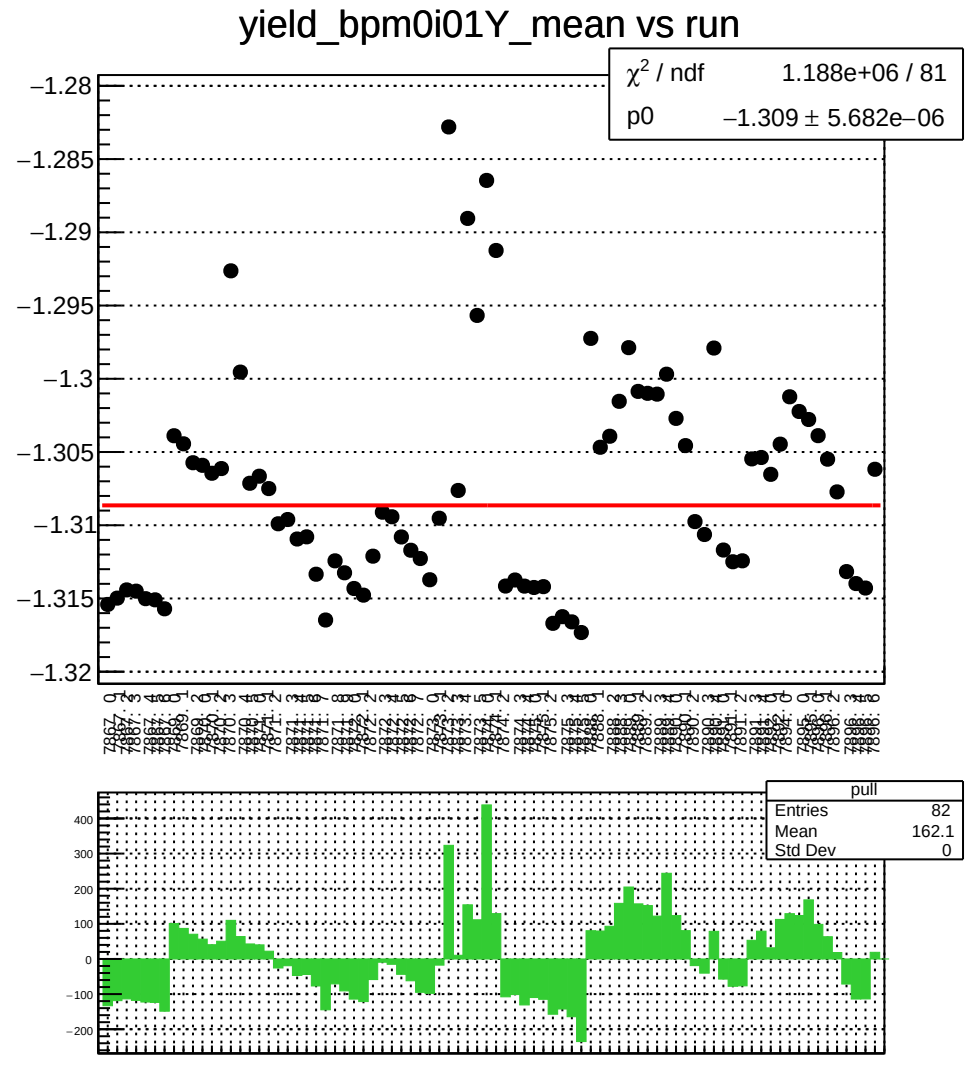

yield_bpm2i02X_rms vs run
χ² / ndf 7442 / 81
p0 0.01125 ± 8.824e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

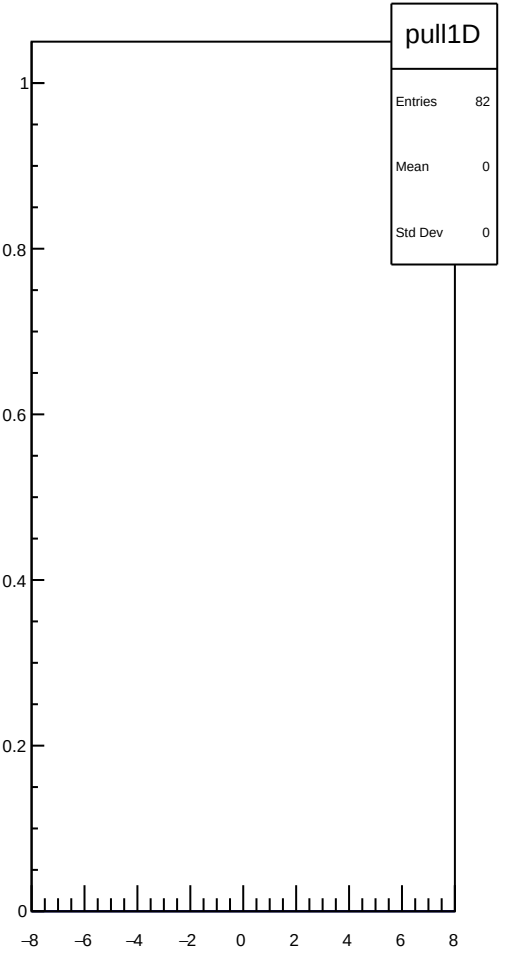

yield_bpm2i02Y_mean vs run
χ² / ndf 2.215e+06 / 81
p0 −1.197 ± 1.069e−05
−1.17
−1.18
−1.19
−1.2
−1.21
−1.22
−1.23
pull
Entries 82
Mean −429.5
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 82
Mean −4.705
Std Dev 2.008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

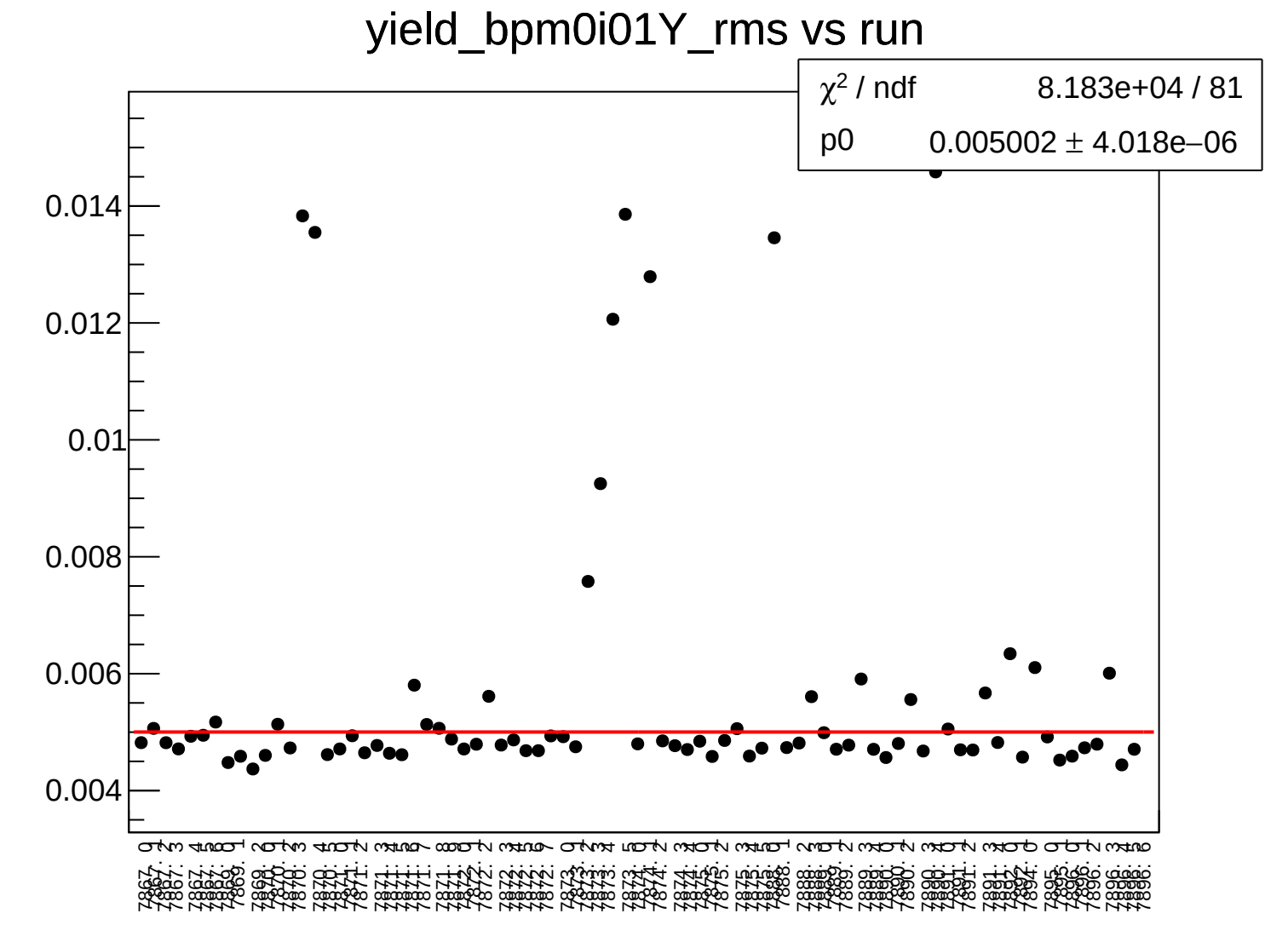

yield_bpm2i02Y_rms vs run
χ² / ndf 4122 / 81
p0 0.009646 ± 7.56e–06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

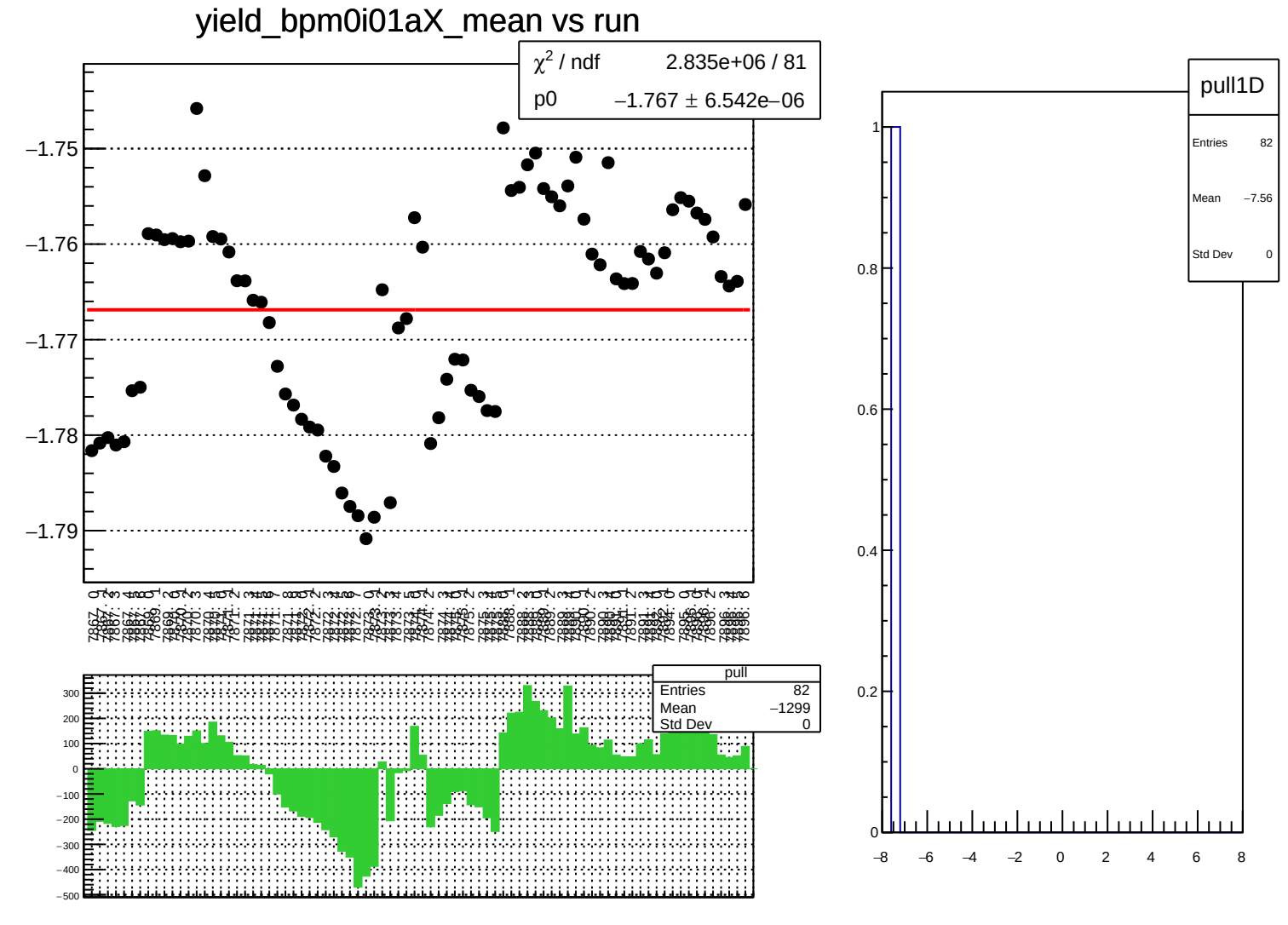

yield_bpm0i01X_mean vs run
χ² / ndf 4.7e+06 / 81
p0 −0.1548 ± 9.587e−06
pull
Entries 82
Mean −384.6
Std Dev 0
pull1D
Entries 82
Mean 4.686
Std Dev 1.982

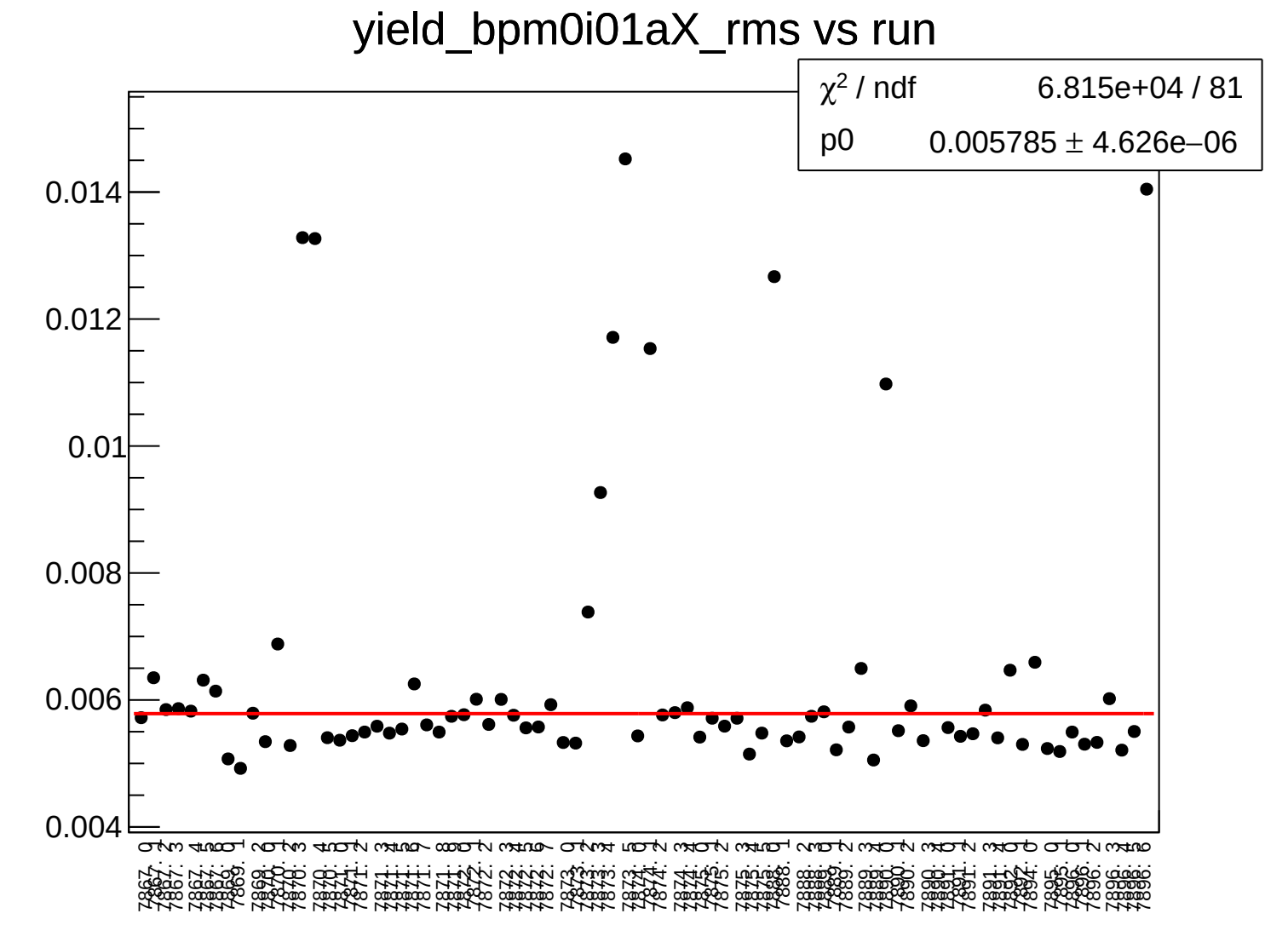

yield_bpm0i01X_rms vs run
χ^2 / ndf 5.127e+04 / 81
p0 0.008524 ± 6.779e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

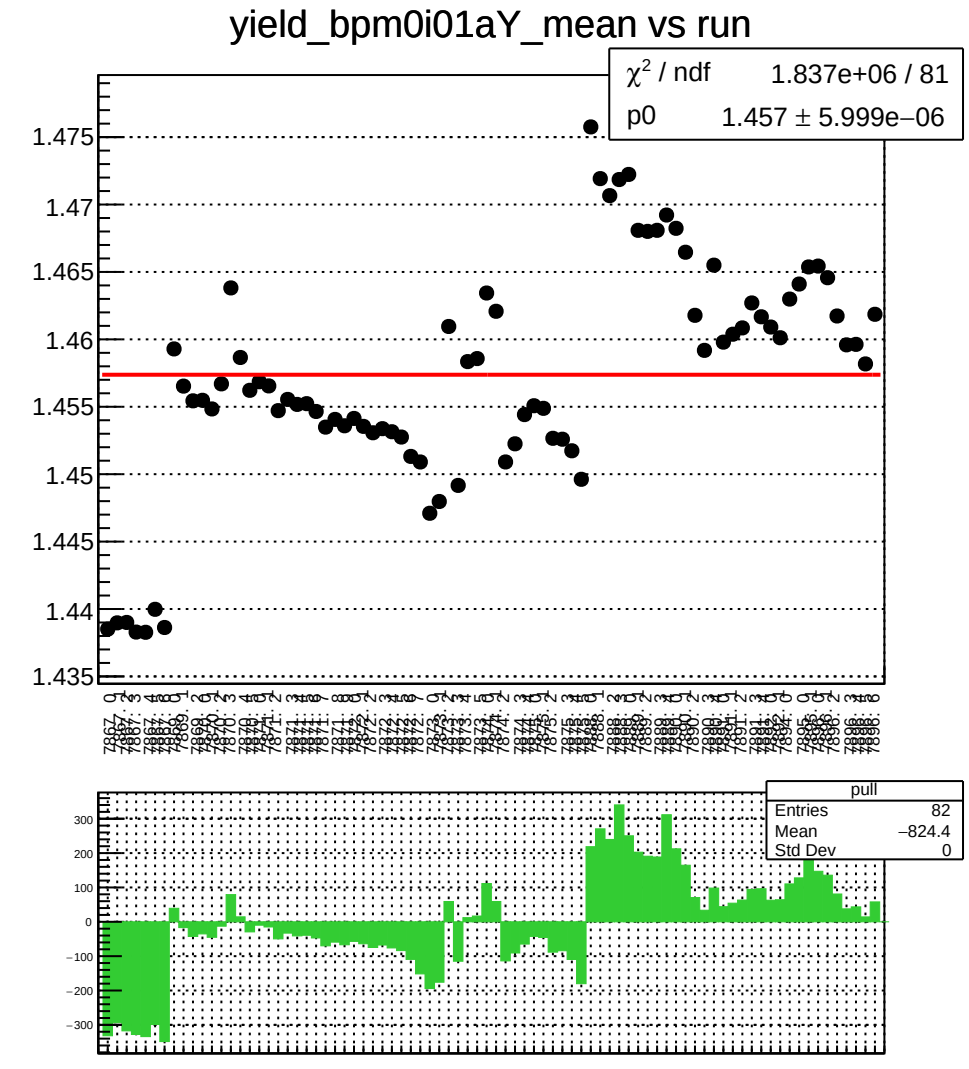

yield_bpm0i01Y_mean vs run
χ² / ndf 1.188e+06 / 81
p0 −1.309 ± 5.682e−06
−1.28
−1.285
−1.29
−1.295
−1.3
−1.305
−1.31
−1.315
−1.32
pull
Entries 82
Mean 162.1
Std Dev 0
400
300
200
100
0
−100
−200

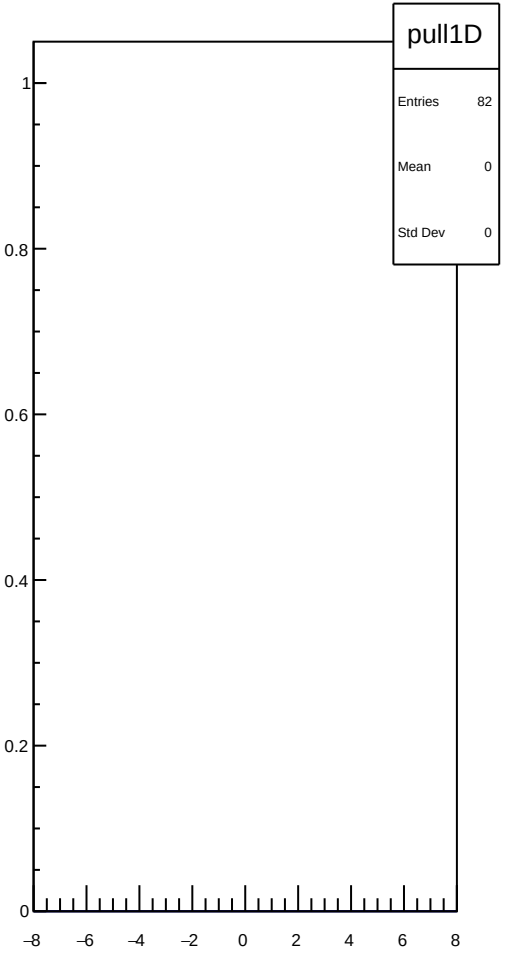

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

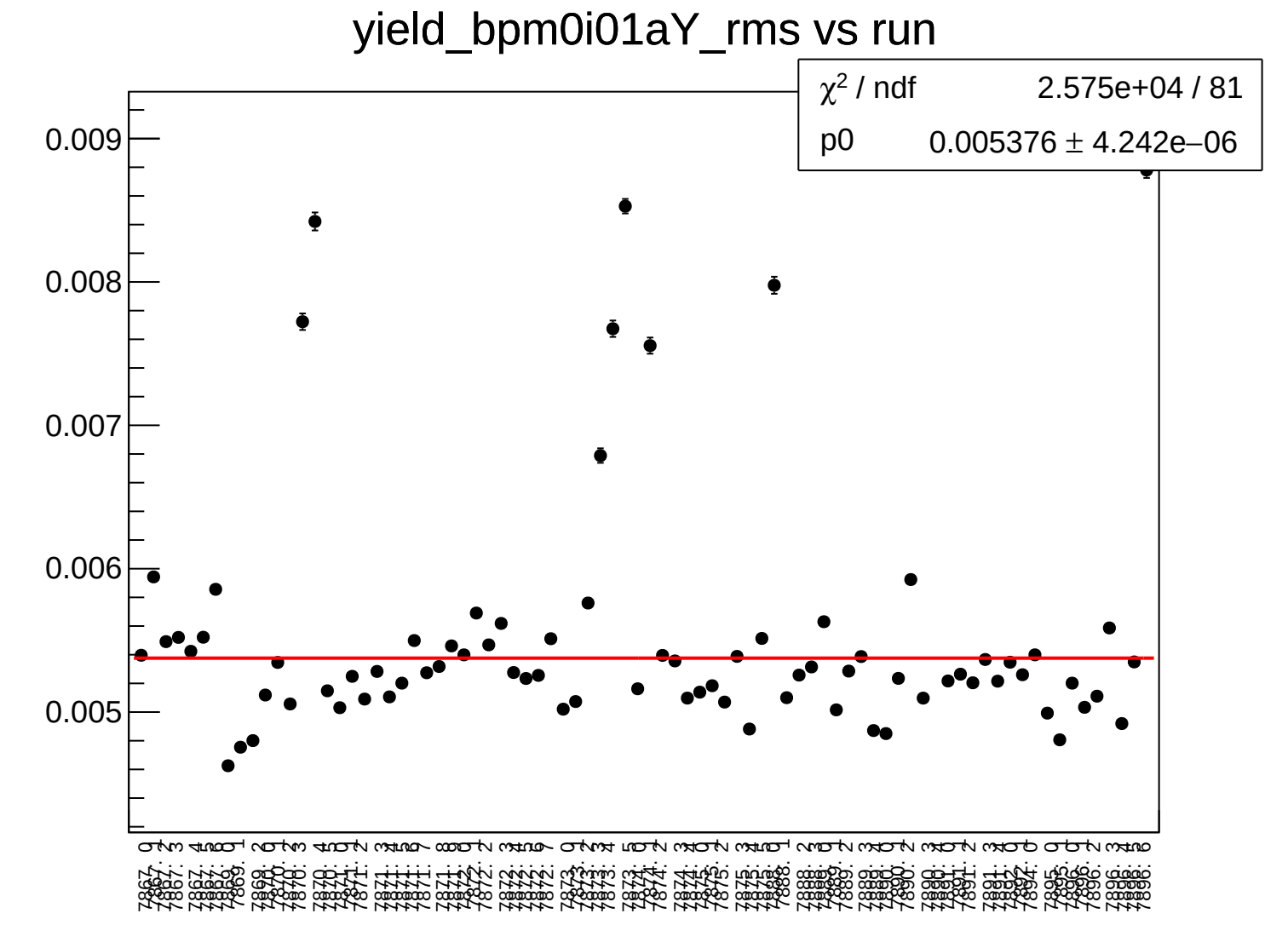

yield_bpm0i01Y_rms vs run
χ² / ndf 8.183e+04 / 81
p0 0.005002 ± 4.018e−06
0.014
0.012
0.01
0.008
0.006
0.004

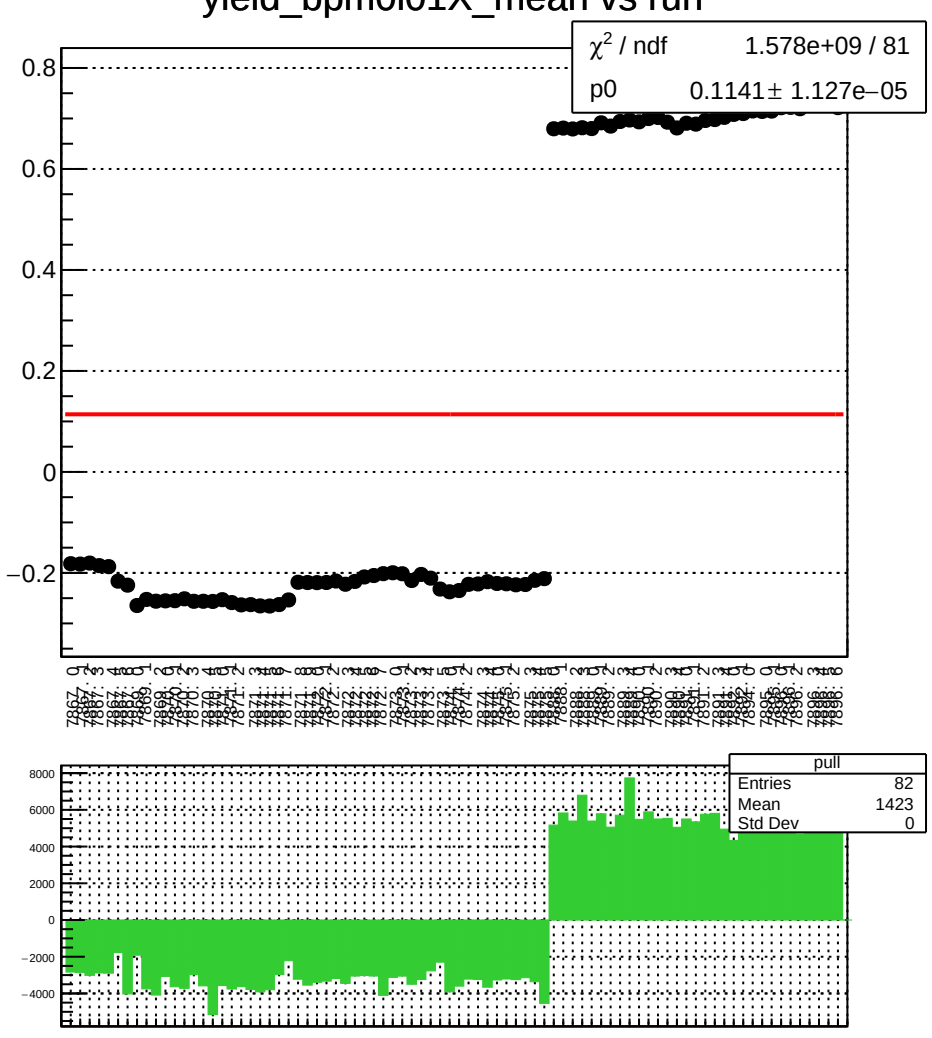

yield_bpm0i01aX_mean vs run
χ² / ndf 2.835e+06 / 81
p0 −1.767 ± 6.542e−06
−1.75
−1.76
−1.77
−1.78
−1.79
pull
Entries 82
Mean −1299
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 82
Mean −7.56
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

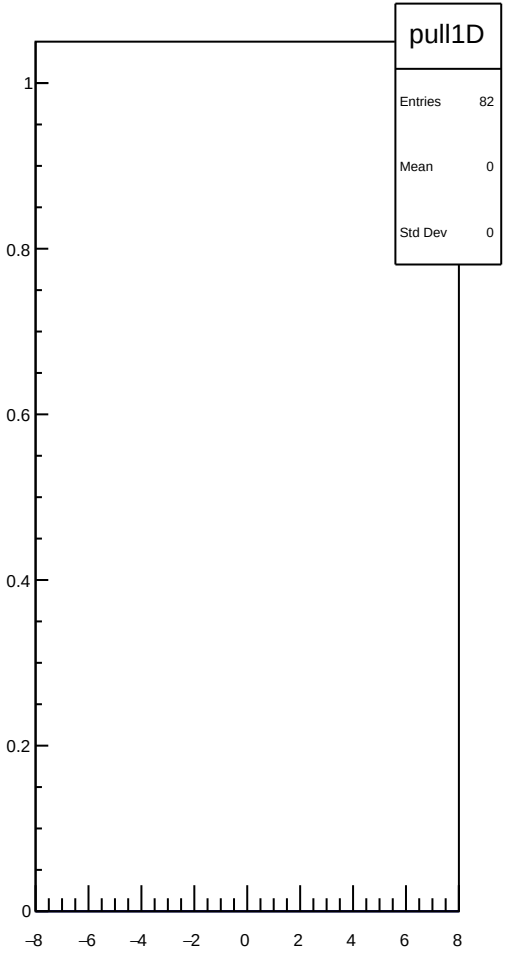

yield_bpm0i01aX_rms vs run
χ² / ndf 6.815e+04 / 81
p0 0.005785 ± 4.626e−06
0.014
0.012
0.01
0.008
0.006
0.004

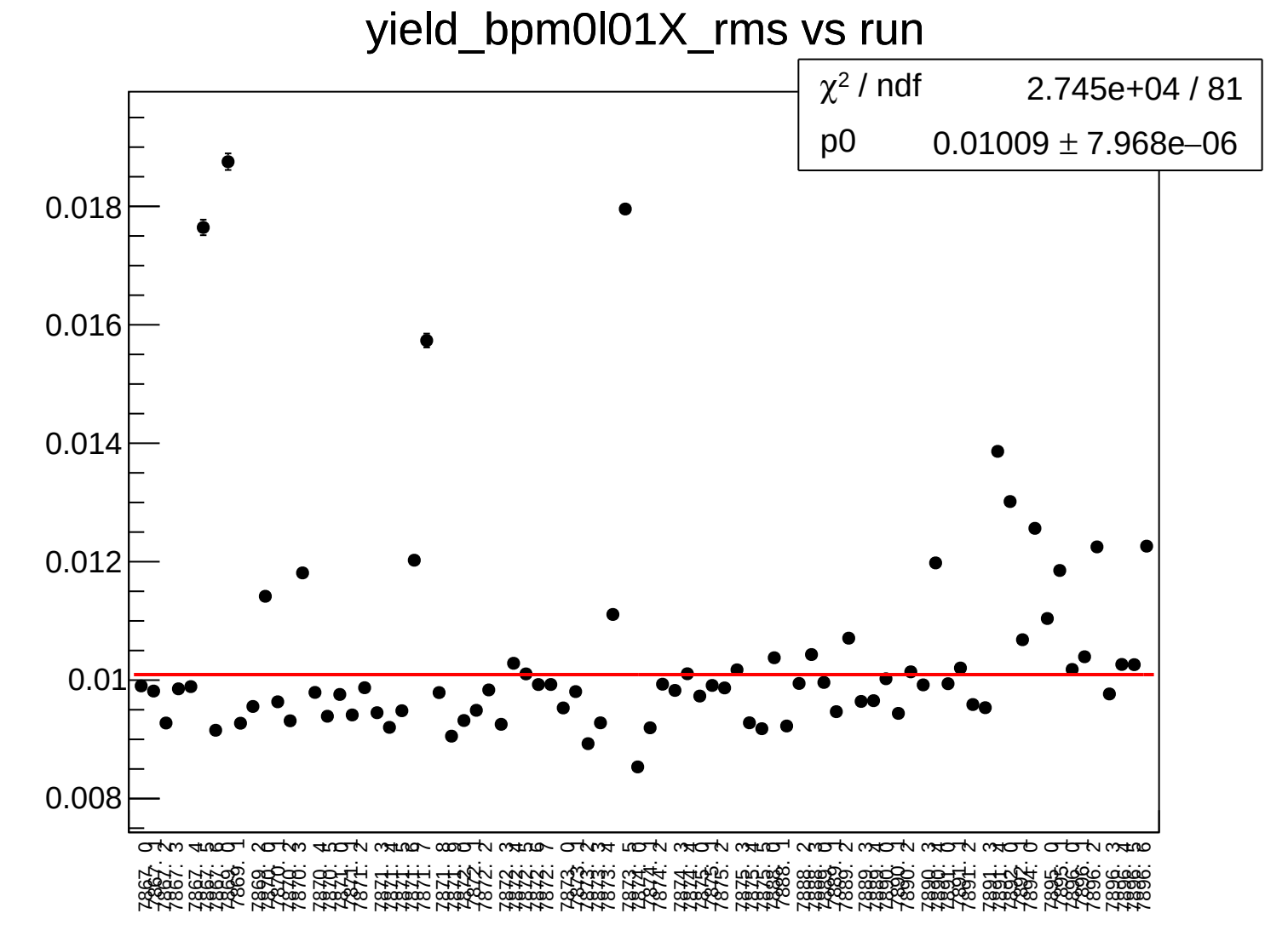

yield_bpm0i01aY_mean vs run
χ² / ndf 1.837e+06 / 81
p0 1.457 ± 5.999e−06
1.475
1.47
1.465
1.46
1.455
1.45
1.445
1.44
1.435
pull
Entries 82
Mean −824.4
Std Dev 0
300
200
100
0
−100
−200
−300

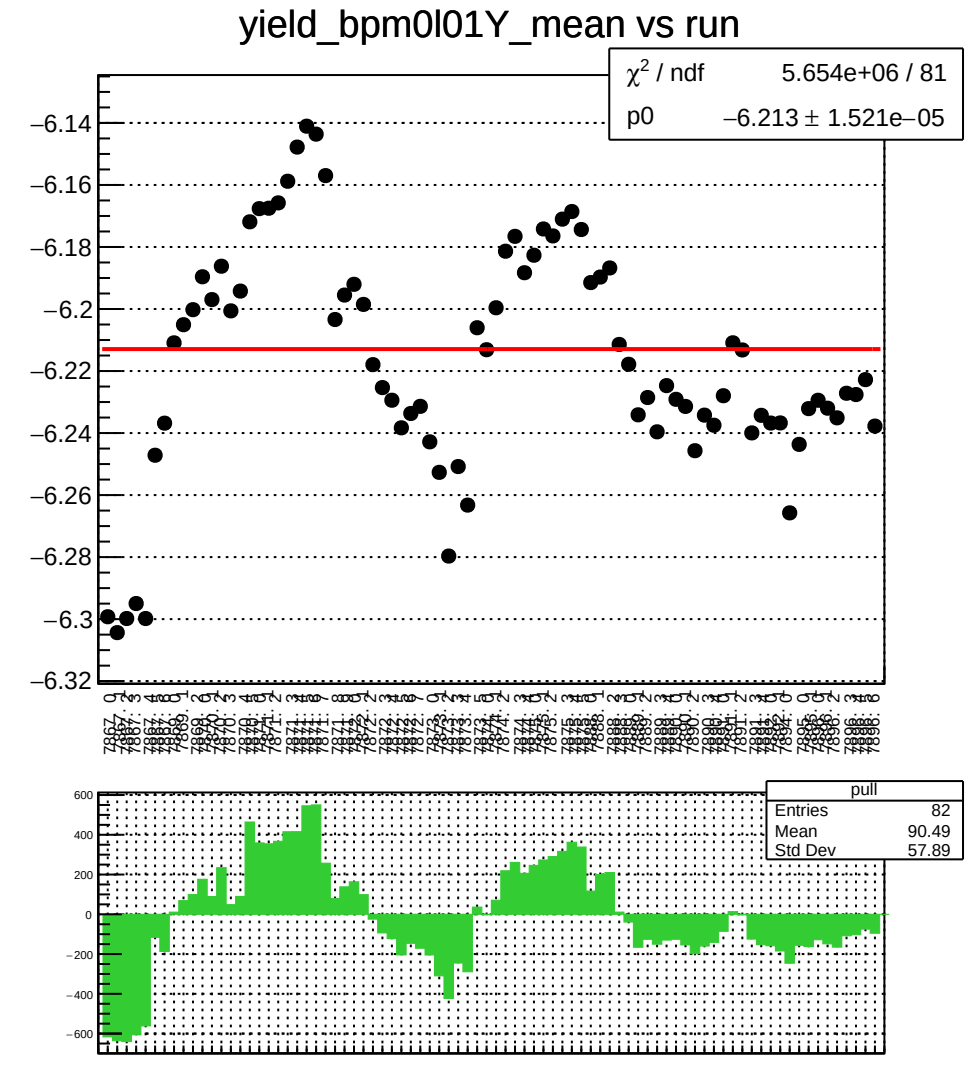

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

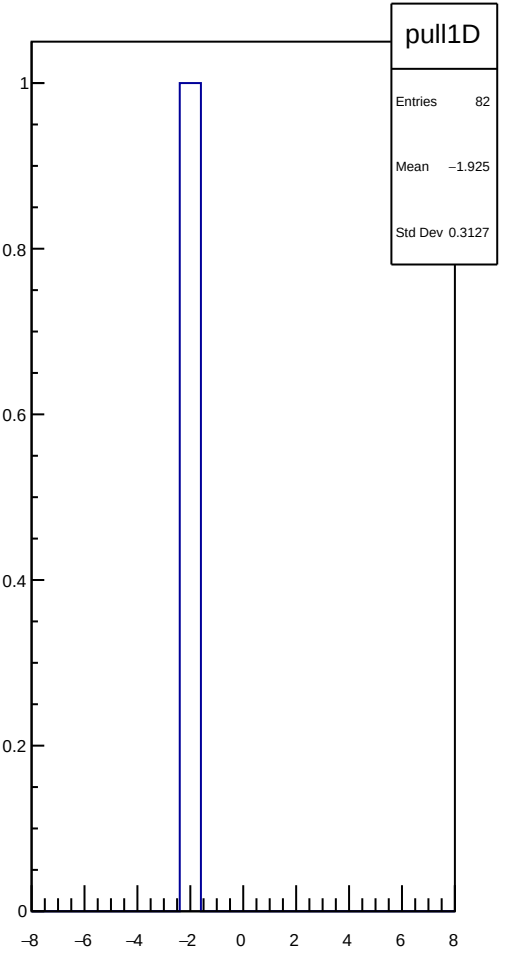

yield_bpm0i01aY_rms vs run
χ² / ndf 2.575e+04 / 81
p0 0.005376 ± 4.242e−06
0.009
0.008
0.007
0.006
0.005

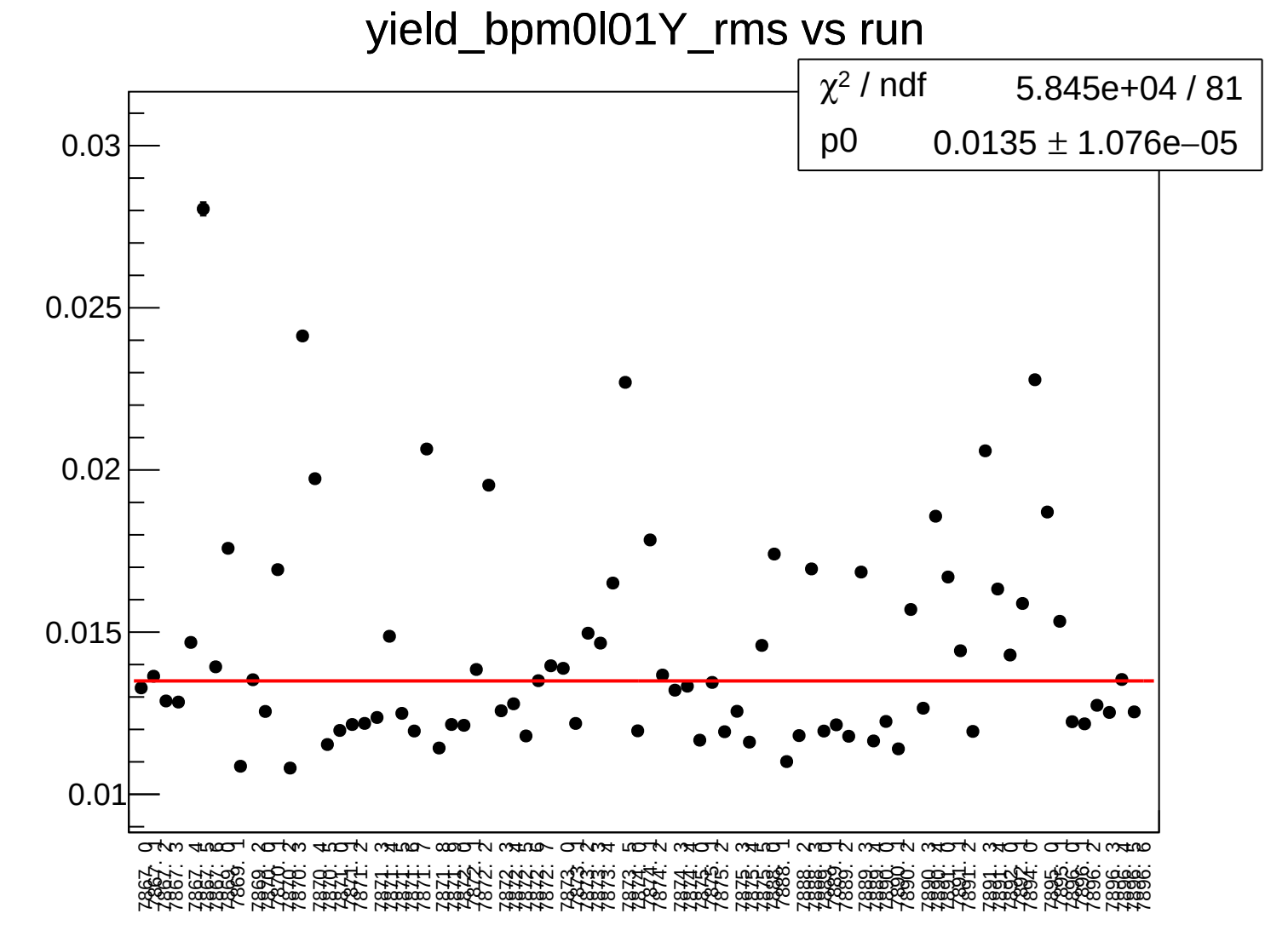

yield_bpm0l01X_mean vs run
χ² / ndf 1.578e+09 / 81
p0 0.1141 ± 1.127e−05
0.8
0.6
0.4
0.2
0
−0.2
pull
Entries 82
Mean 1423
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000

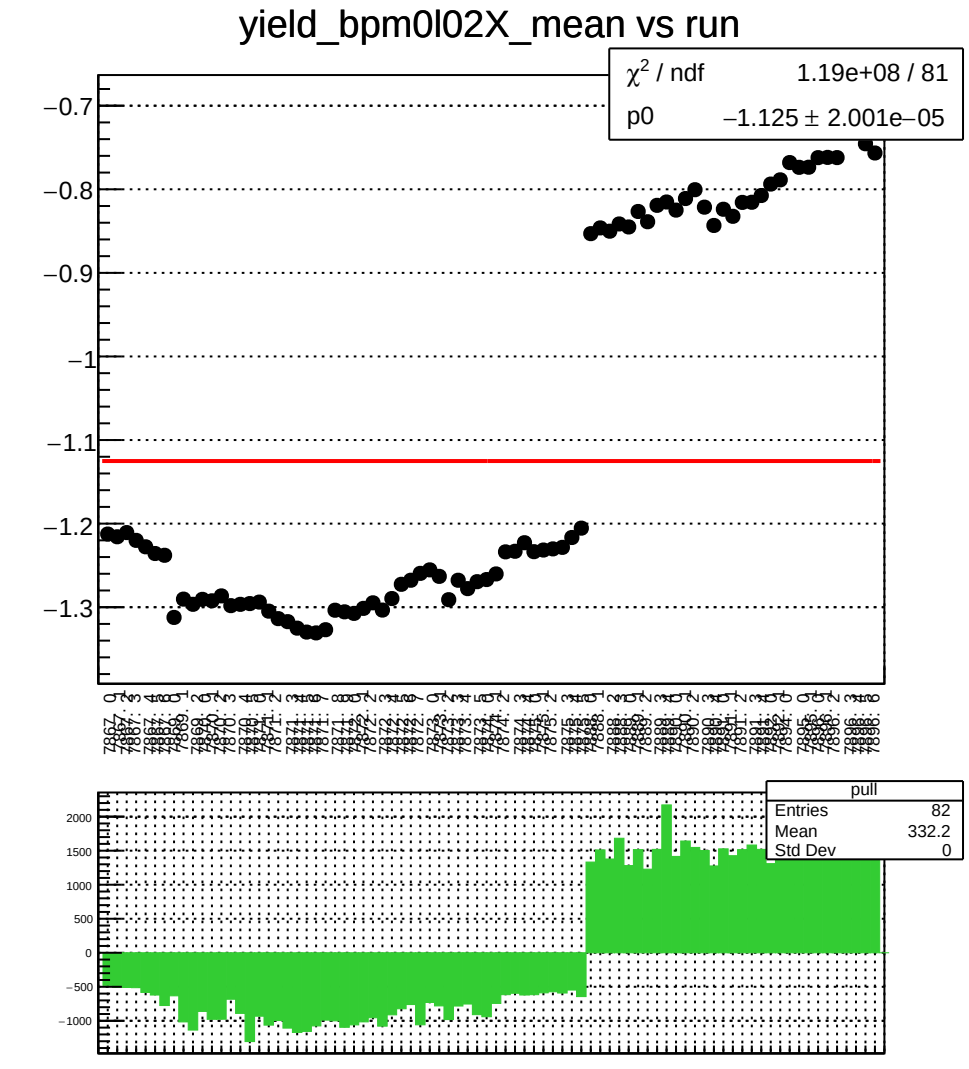

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

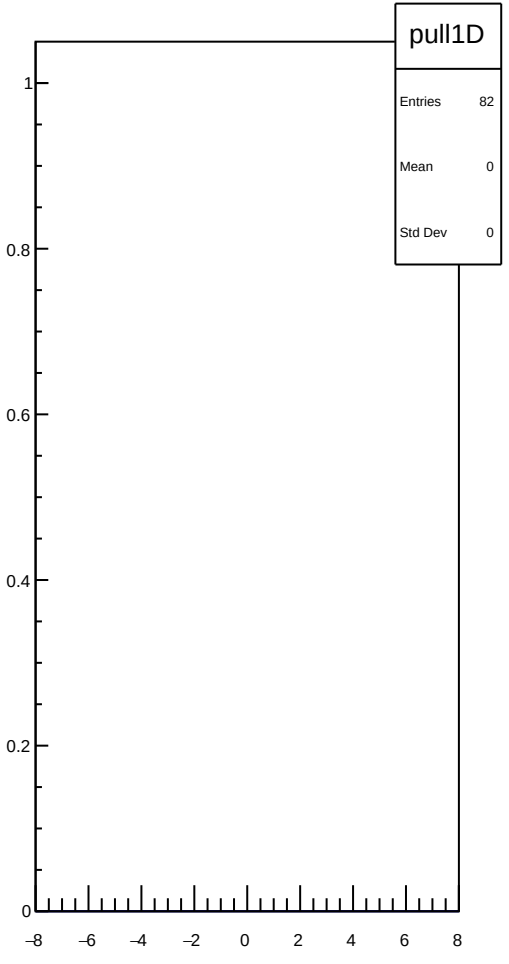

yield_bpm0l01X_rms vs run
χ² / ndf 2.745e+04 / 81
p0 0.01009 ± 7.968e–06
0.018
0.016
0.014
0.012
0.01
0.008

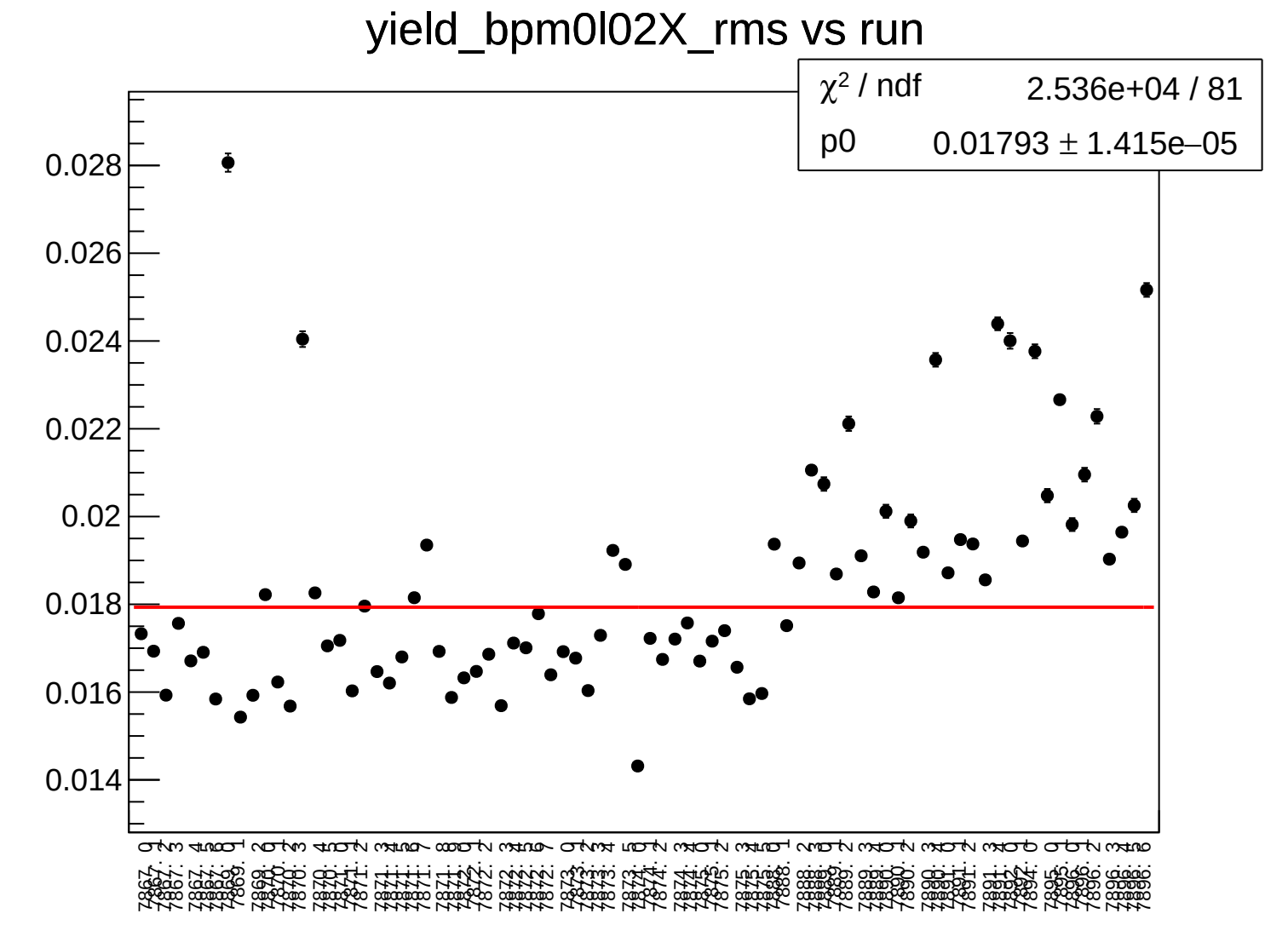

yield_bpm0l01Y_mean vs run
χ² / ndf 5.654e+06 / 81
p0 −6.213 ± 1.521e−05
−6.14
−6.16
−6.18
−6.2
−6.22
−6.24
−6.26
−6.28
−6.3
−6.32
pull
Entries 82
Mean 90.49
Std Dev 57.89
600
400
200
0
−200
−400
−600

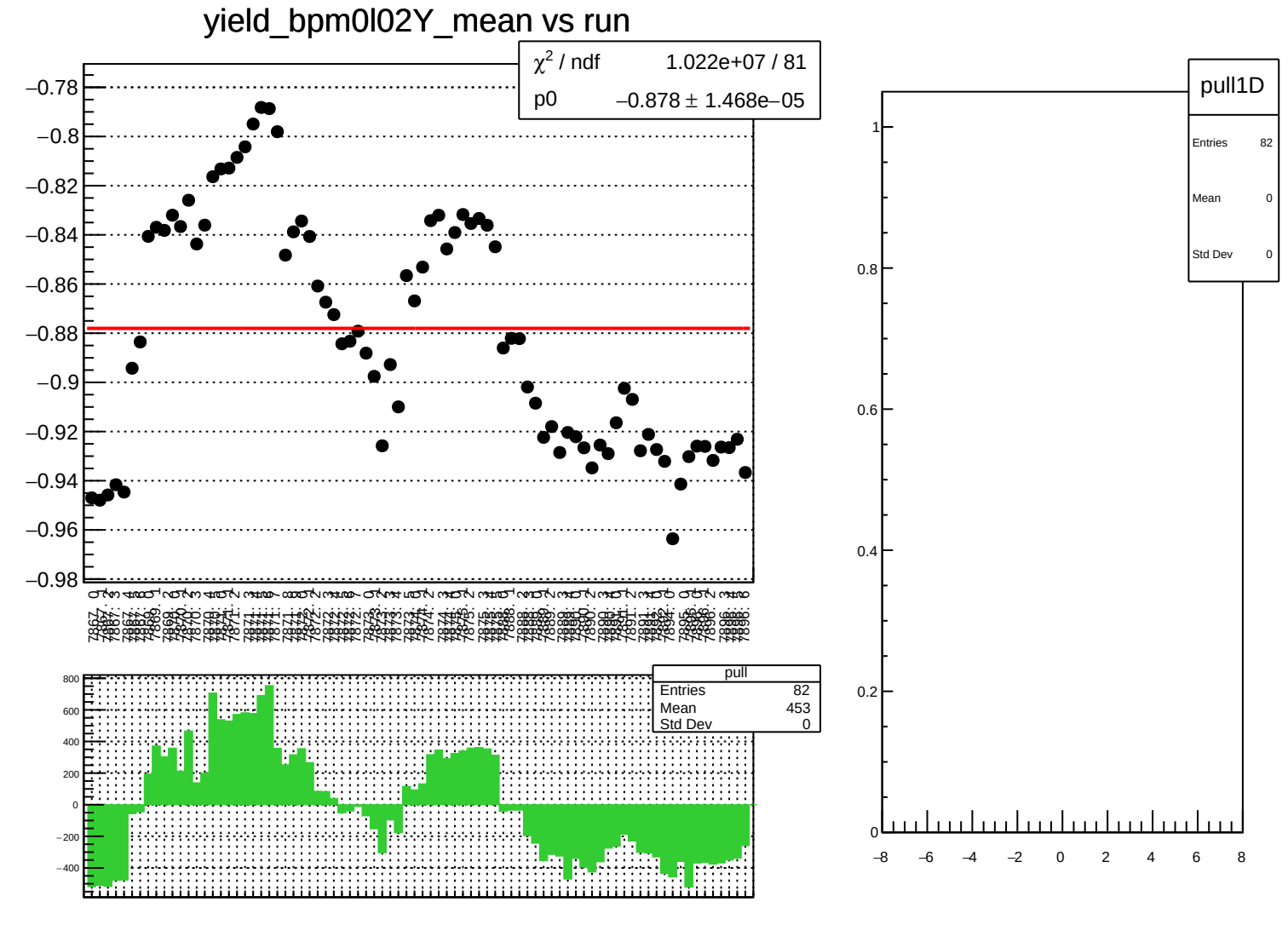

pull1D
Entries 82
Mean −1.925
Std Dev 0.3127
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

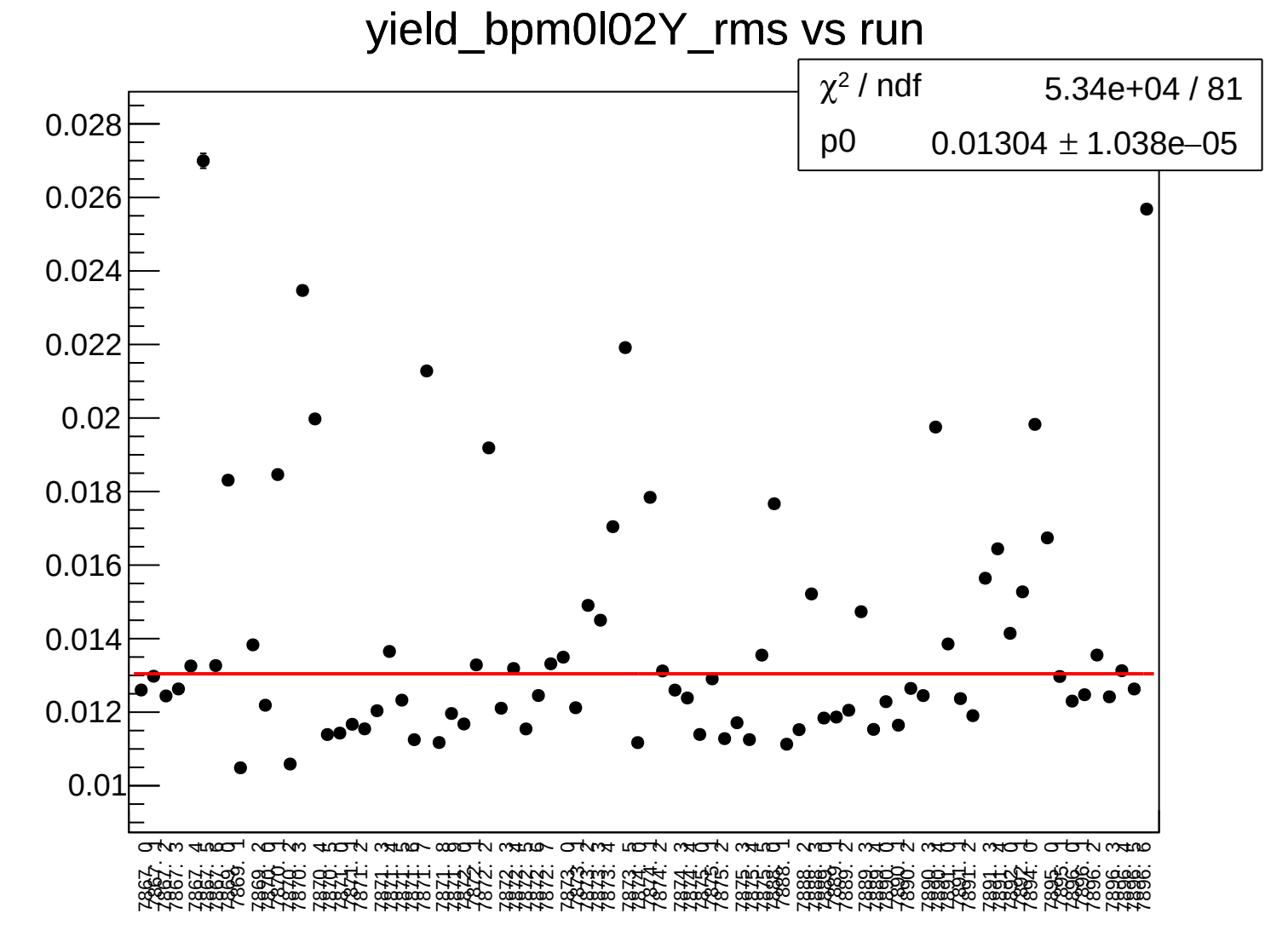

yield_bpm0l01Y_rms vs run
χ^2 / ndf 5.845e+04 / 81
p0 0.0135 ± 1.076e−05
0.03
0.025
0.02
0.015
0.01

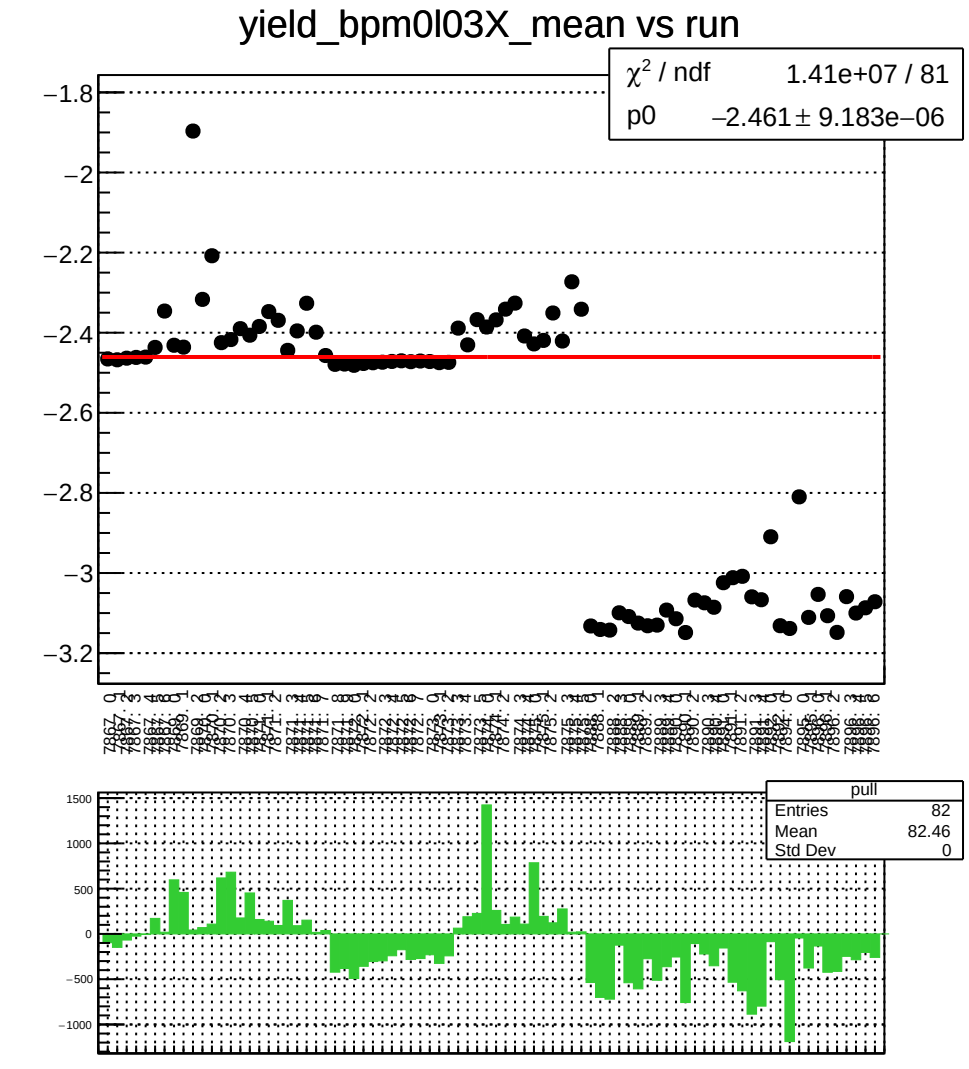

yield_bpm0l02X_mean vs run
χ² / ndf 1.19e+08 / 81
p0 −1.125 ± 2.001e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 82
Mean 332.2
Std Dev 0
2000
1500
1000
500
0
−500
−1000

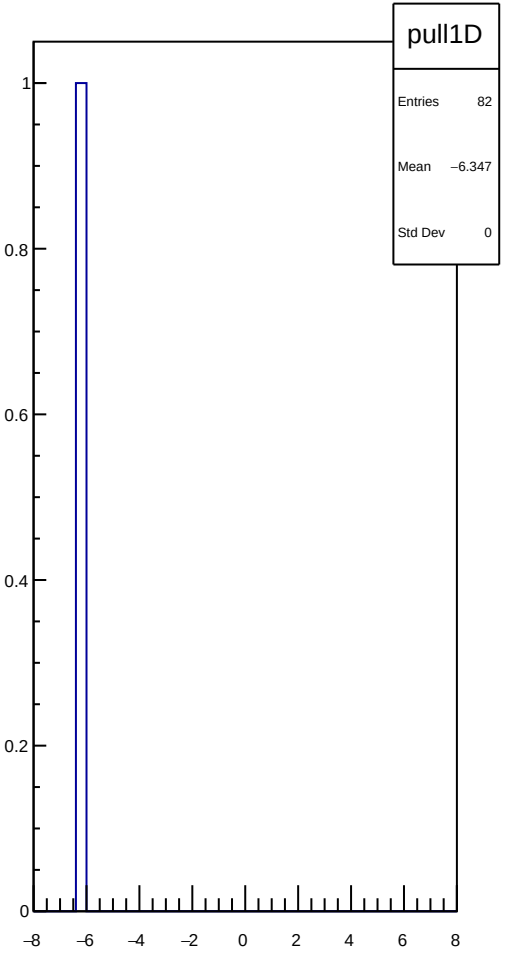

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

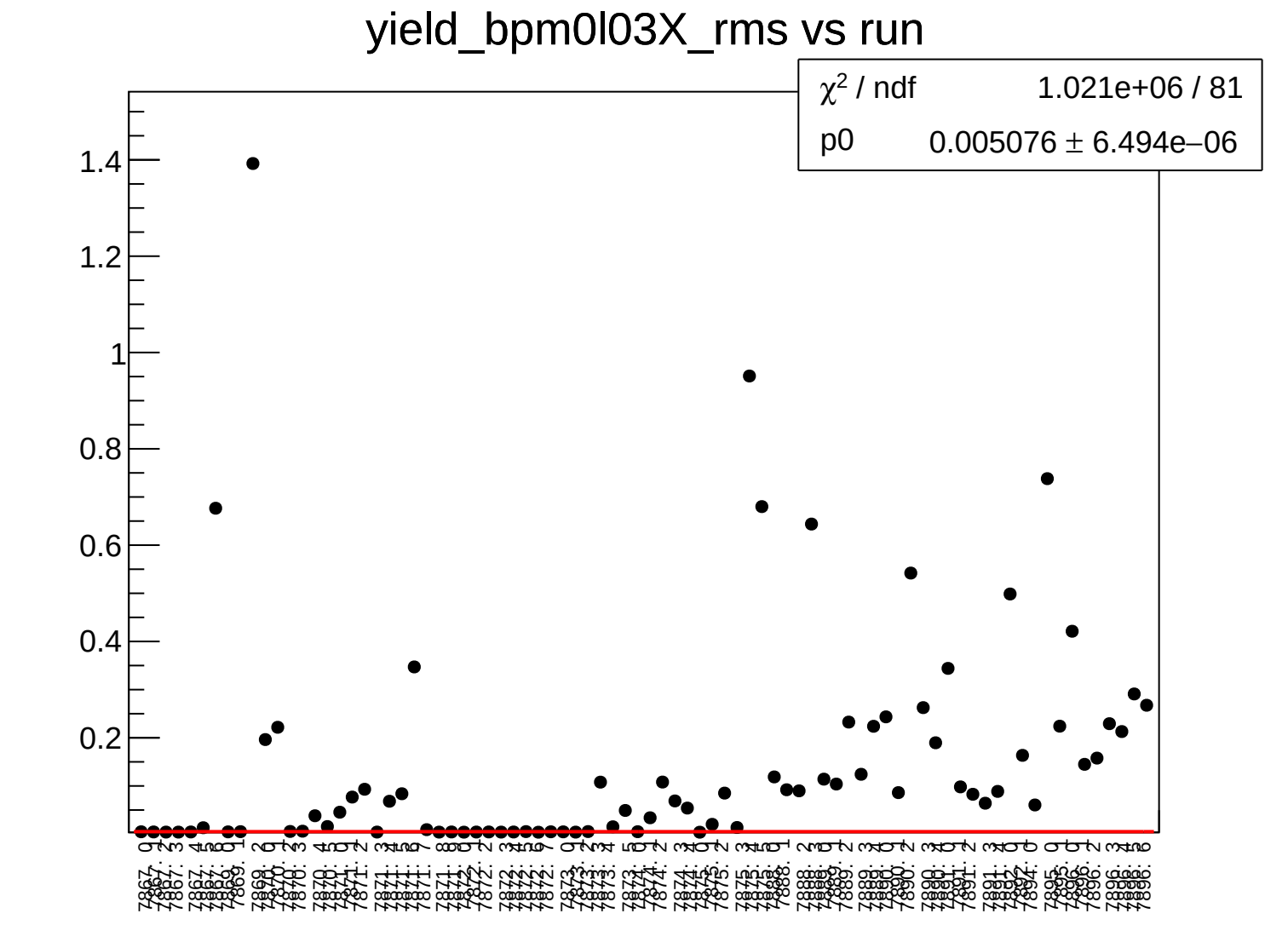

yield_bpm0l02X_rms vs run
χ² / ndf 2.536e+04 / 81
p0 0.01793 ± 1.415e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

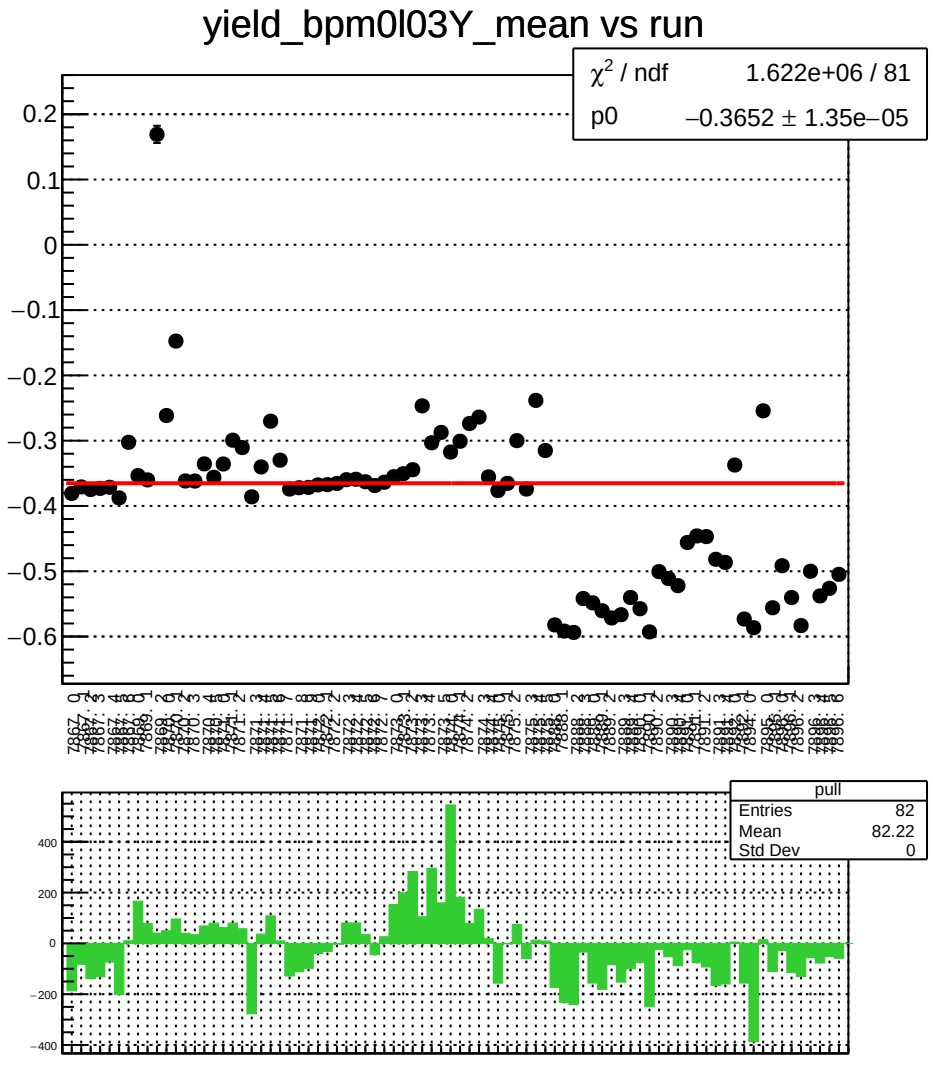

yield_bpm0l02Y_mean vs run
χ² / ndf 1.022e+07 / 81
p0 −0.878 ± 1.468e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
pull
Entries 82
Mean 453
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

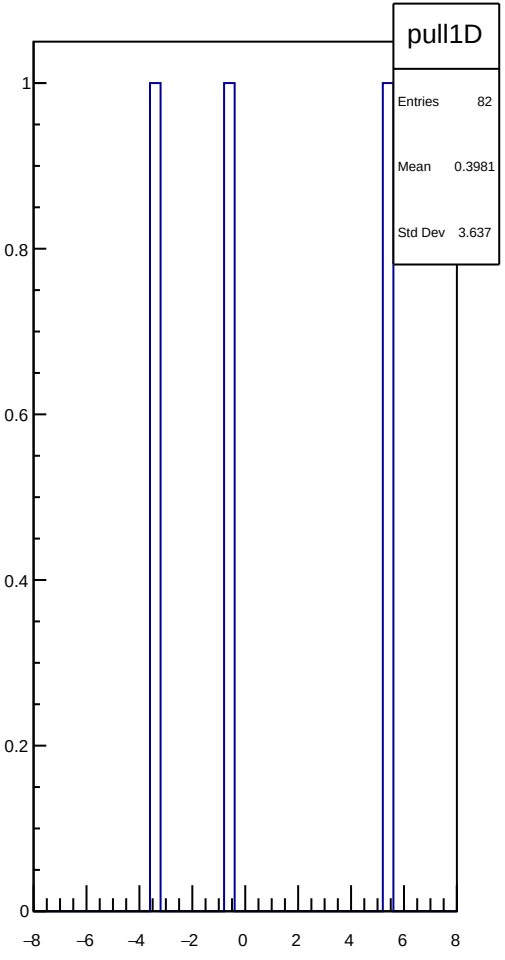

yield_bpm0l02Y_rms vs run
χ² / ndf 5.34e+04 / 81
p0 0.01304 ± 1.038e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

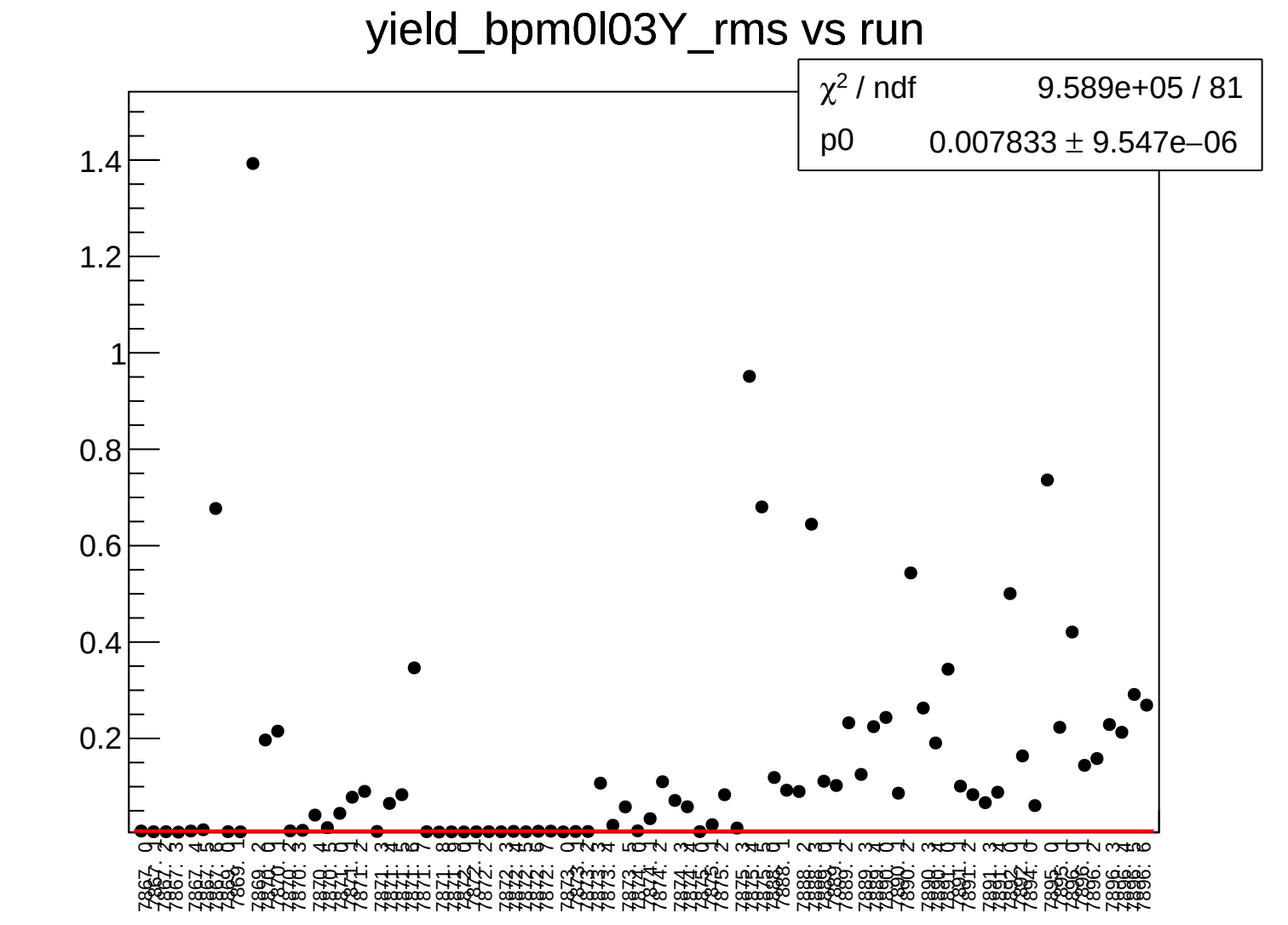

yield_bpm0l03X_mean vs run
χ² / ndf 1.41e+07 / 81
p0 −2.461 ± 9.183e−06
pull
Entries 82
Mean 82.46
Std Dev 0

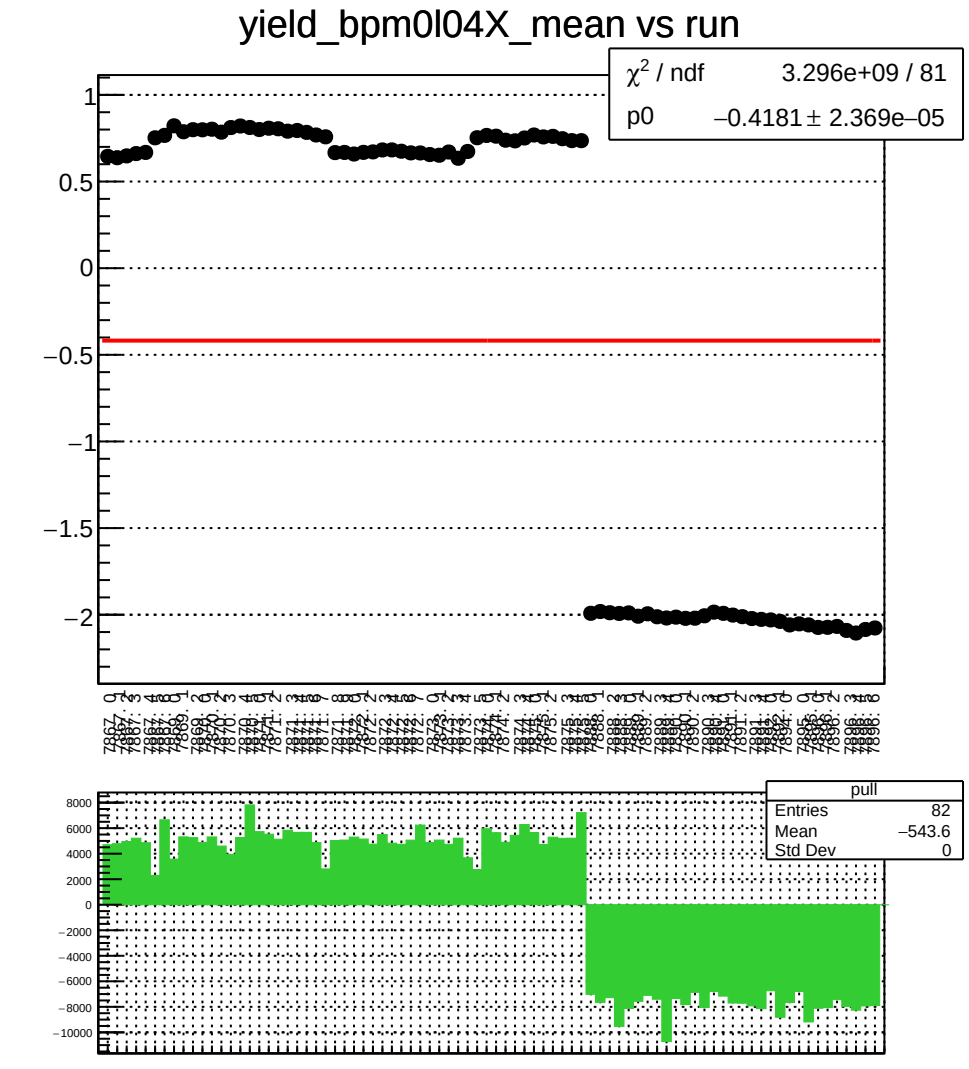

pull1D
Entries 82
Mean −6.347
Std Dev 0

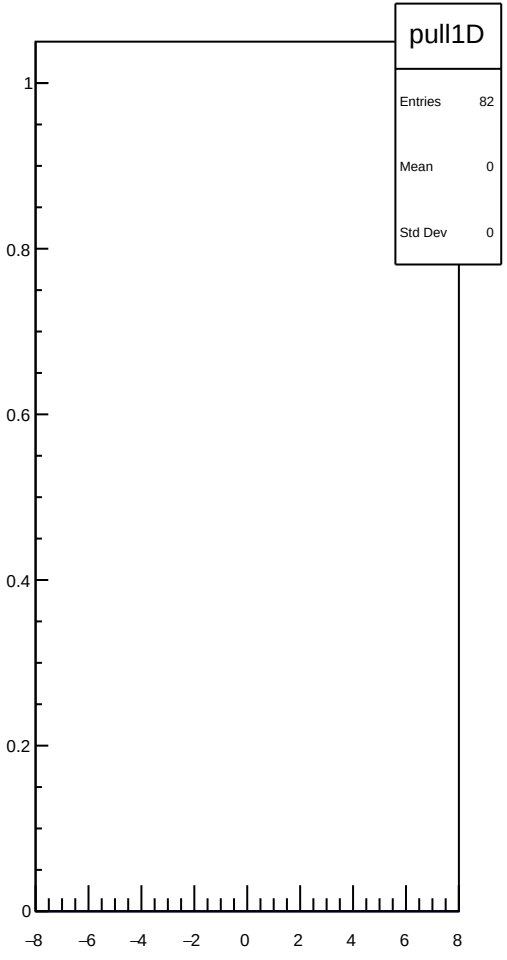

yield_bpm0l03X_rms vs run
χ² / ndf 1.021e+06 / 81
p0 0.005076 ± 6.494e−06
1.4
1.2
1
0.8
0.6
0.4
0.2

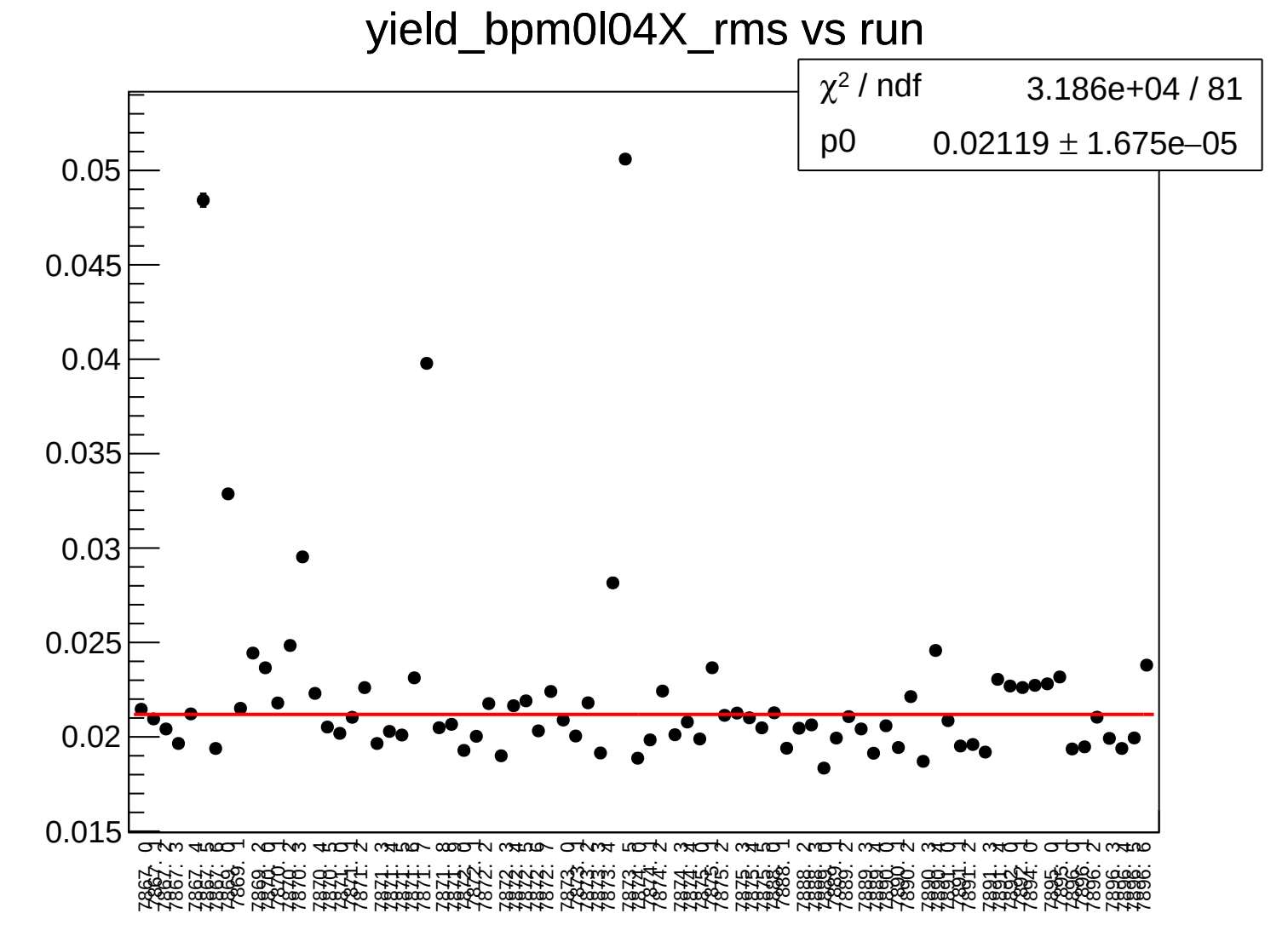

yield_bpm0l03Y_mean vs run
χ² / ndf 1.622e+06 / 81
p0 −0.3652 ± 1.35e−05
pull
Entries 82
Mean 82.22
Std Dev 0

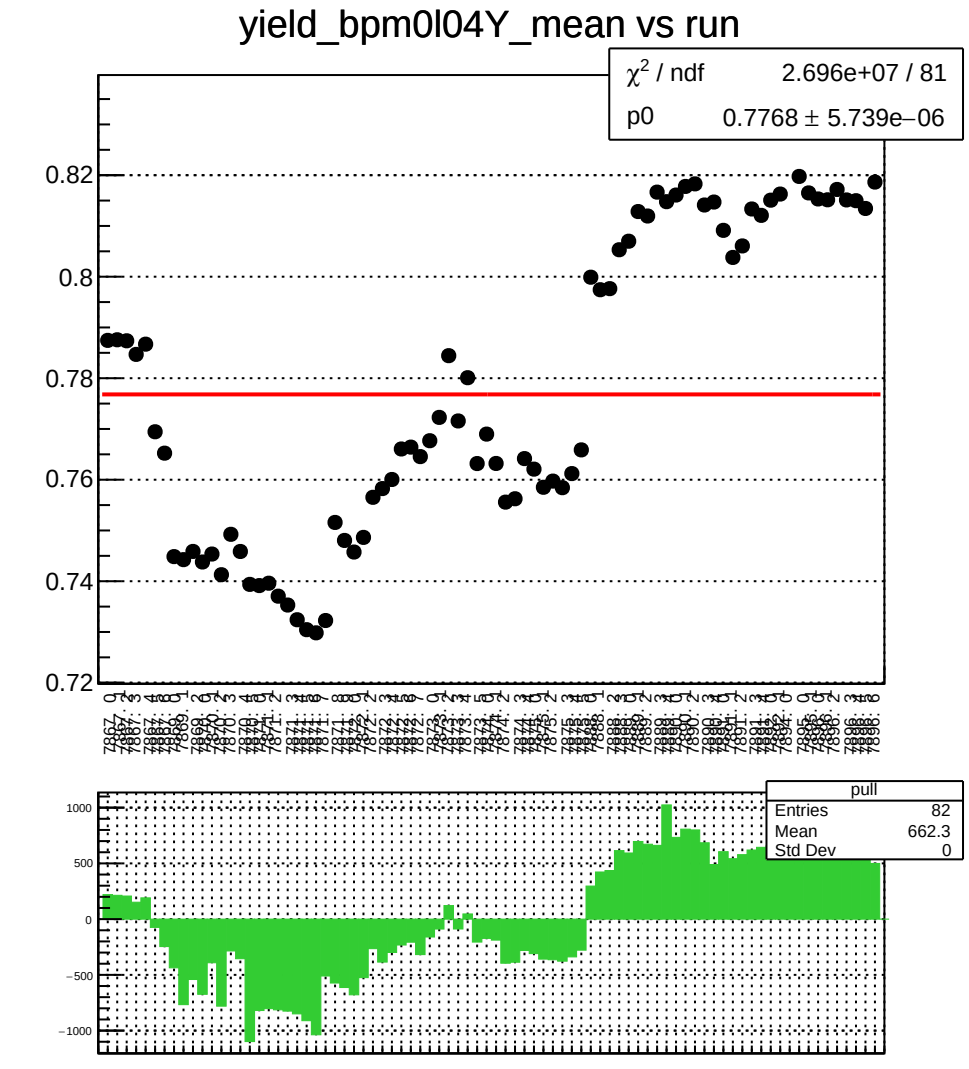

pull1D
Entries 82
Mean 0.3981
Std Dev 3.637

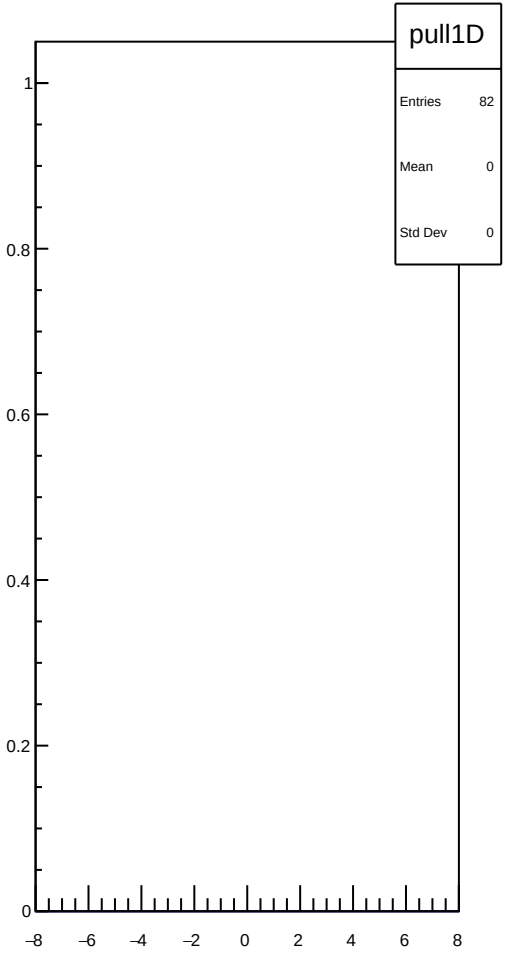

yield_bpm0l03Y_rms vs run
χ² / ndf 9.589e+05 / 81
p0 0.007833 ± 9.547e−06
1.4
1.2
1
0.8
0.6
0.4
0.2

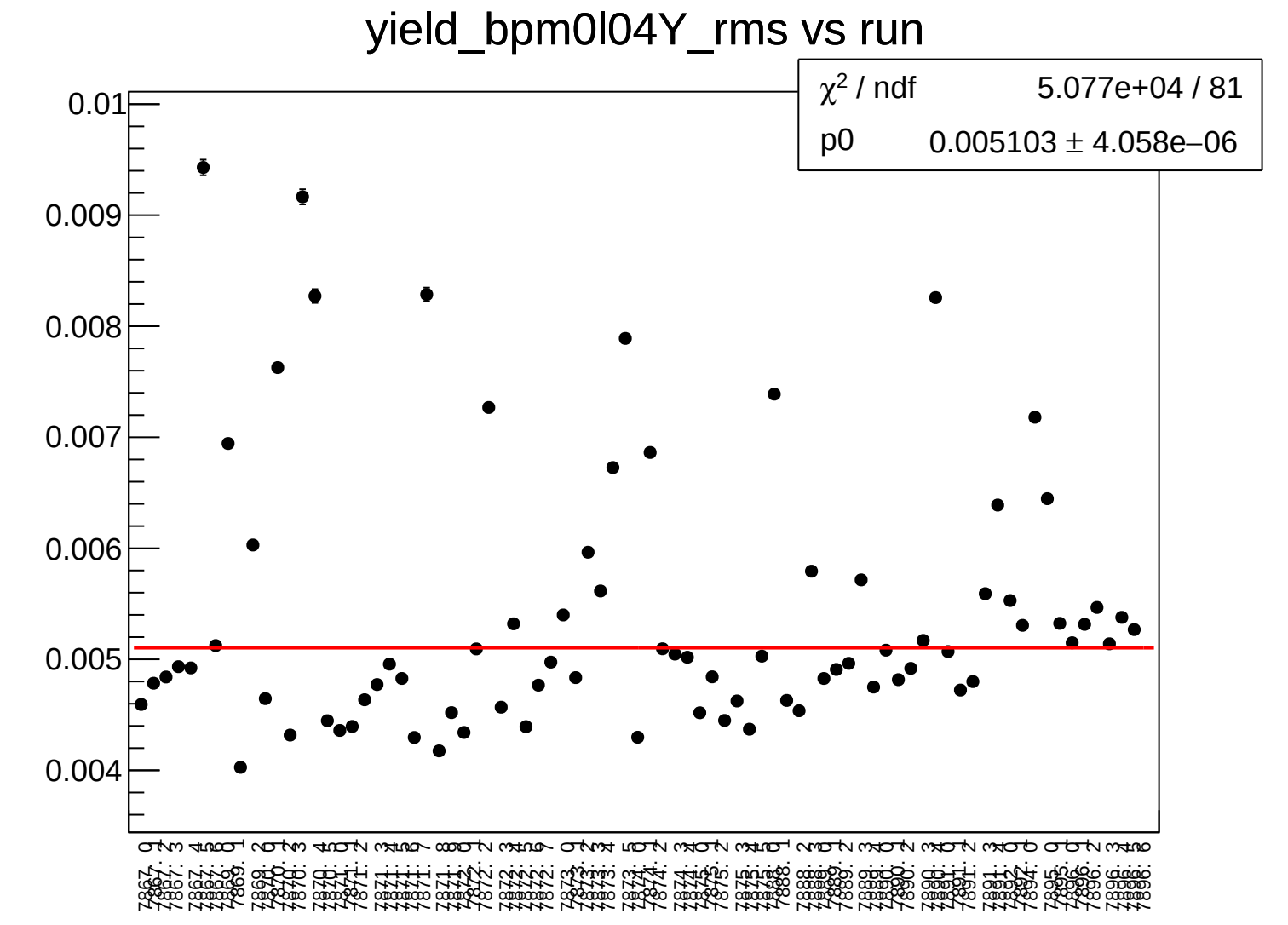

yield_bpm0l04X_mean vs run
χ² / ndf 3.296e+09 / 81
p0 −0.4181 ± 2.369e−05
pull
Entries 82
Mean −543.6
Std Dev 0

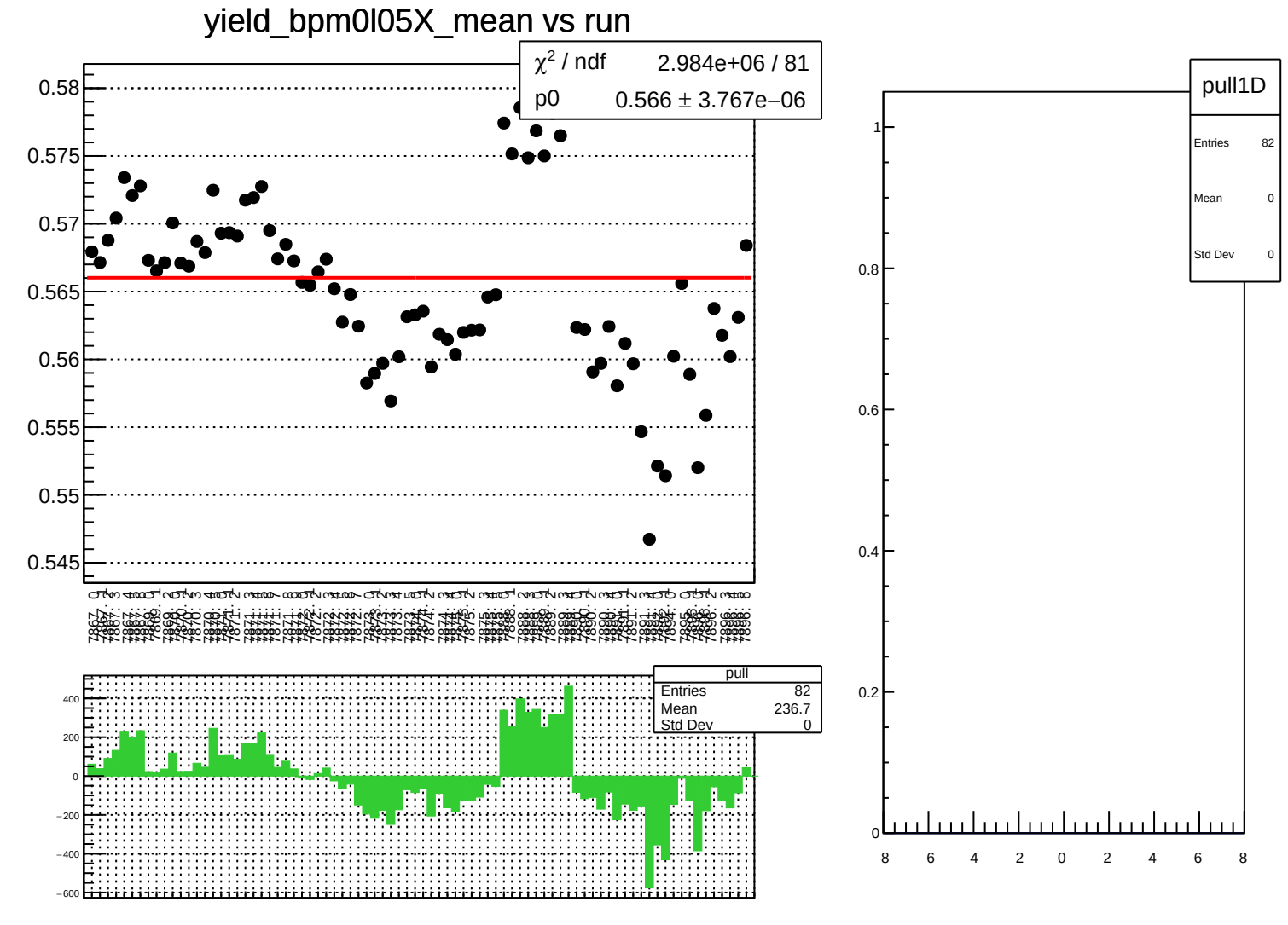

pull1D
Entries 82
Mean 0
Std Dev 0

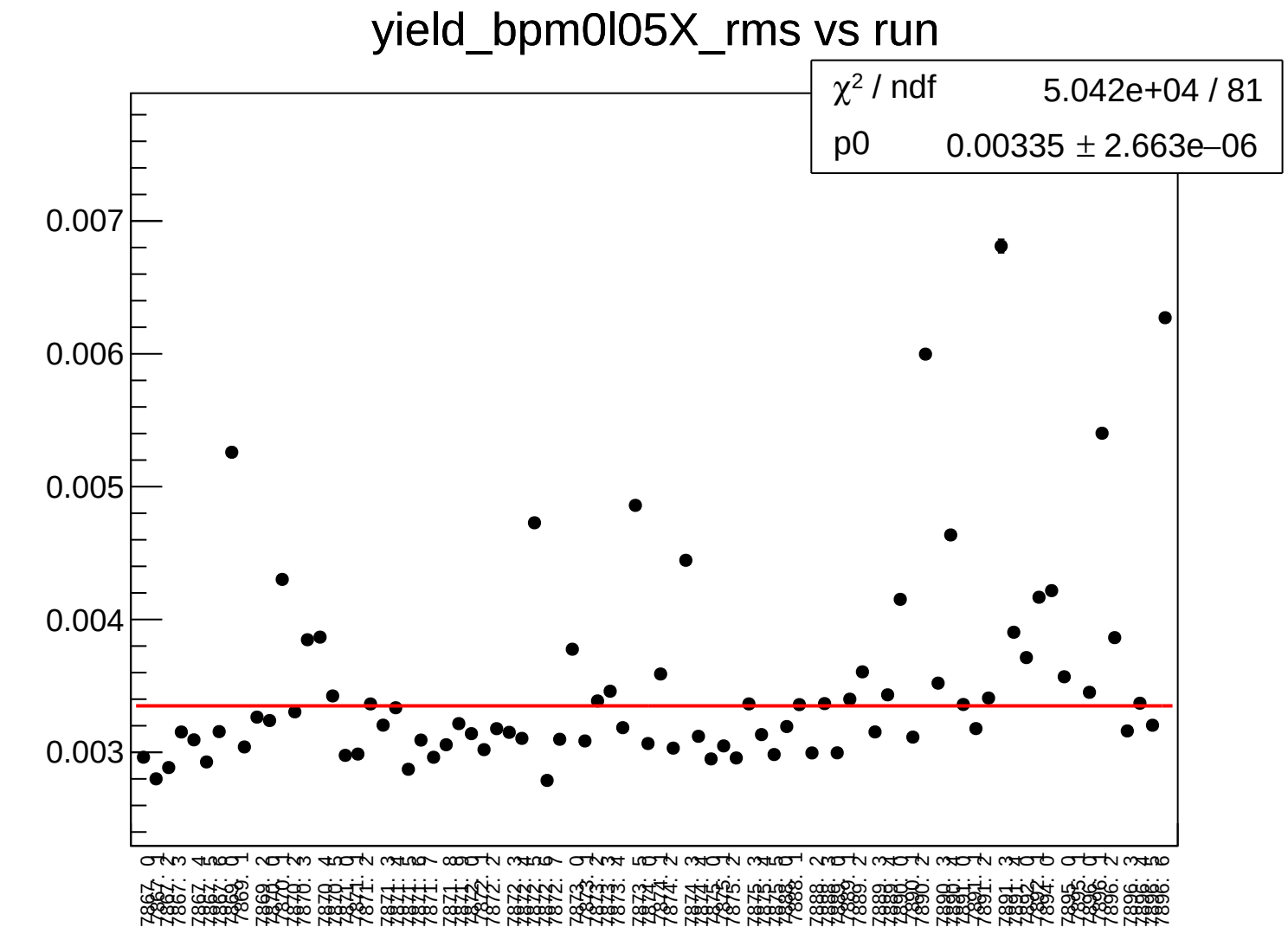

yield_bpm0l04X_rms vs run
χ² / ndf 3.186e+04 / 81
p0 0.02119 ± 1.675e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

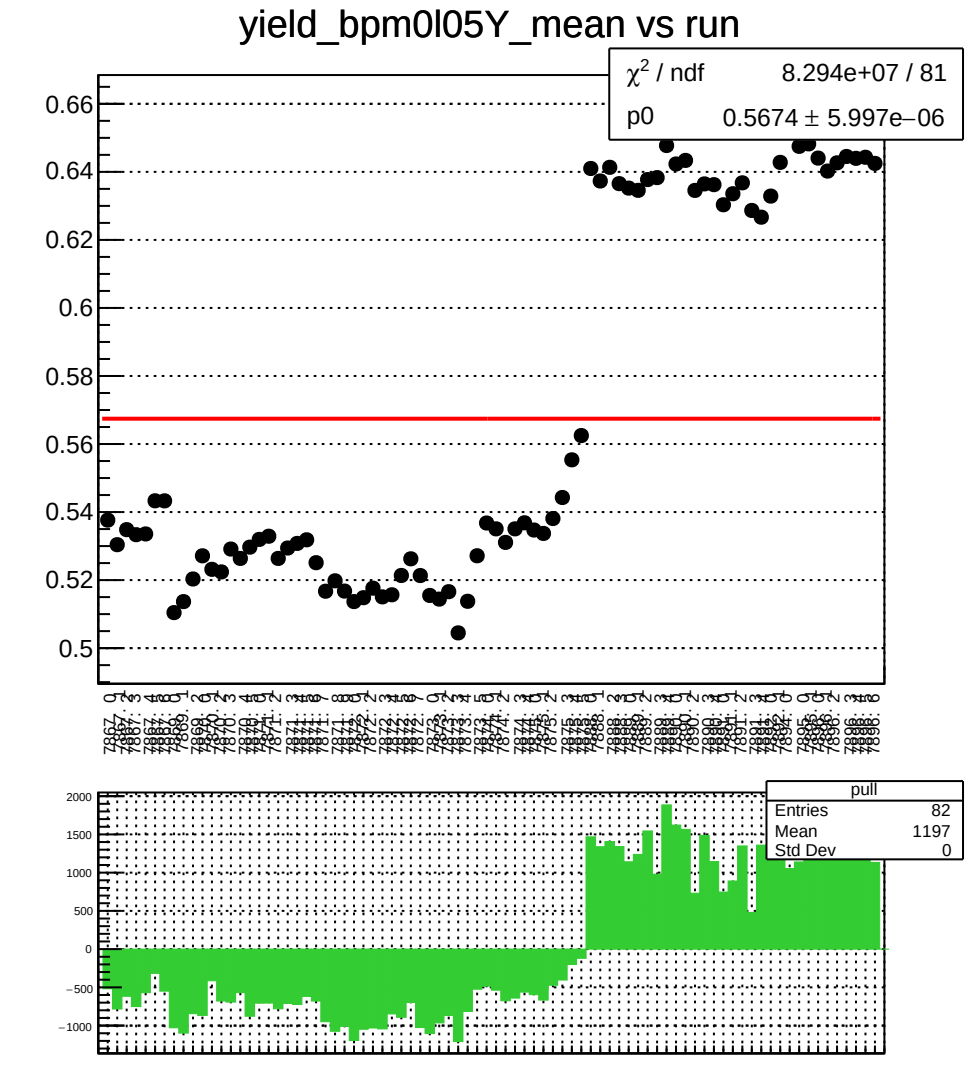

yield_bpm0l04Y_mean vs run
χ² / ndf 2.696e+07 / 81
p0 0.7768 ± 5.739e−06
0.82
0.8
0.78
0.76
0.74
0.72
pull
Entries 82
Mean 662.3
Std Dev 0
1000
500
0
−500
−1000

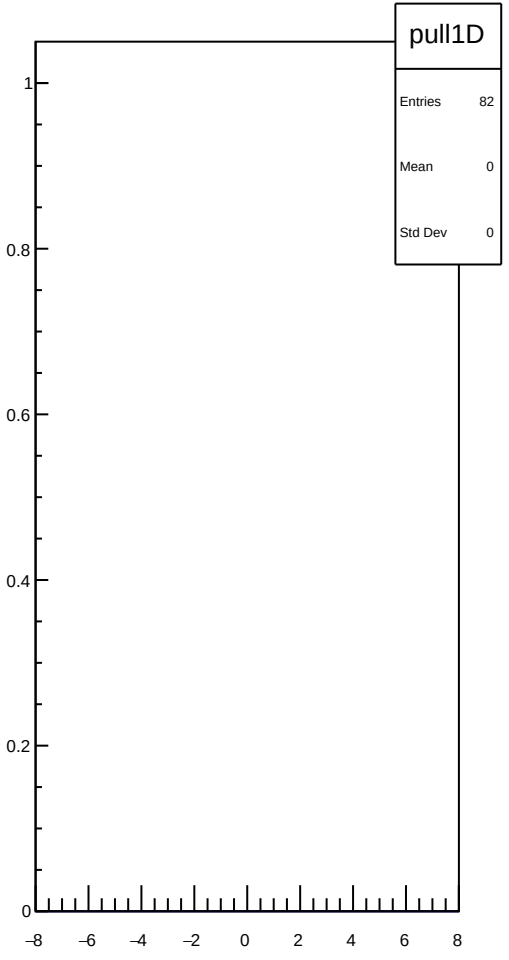

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

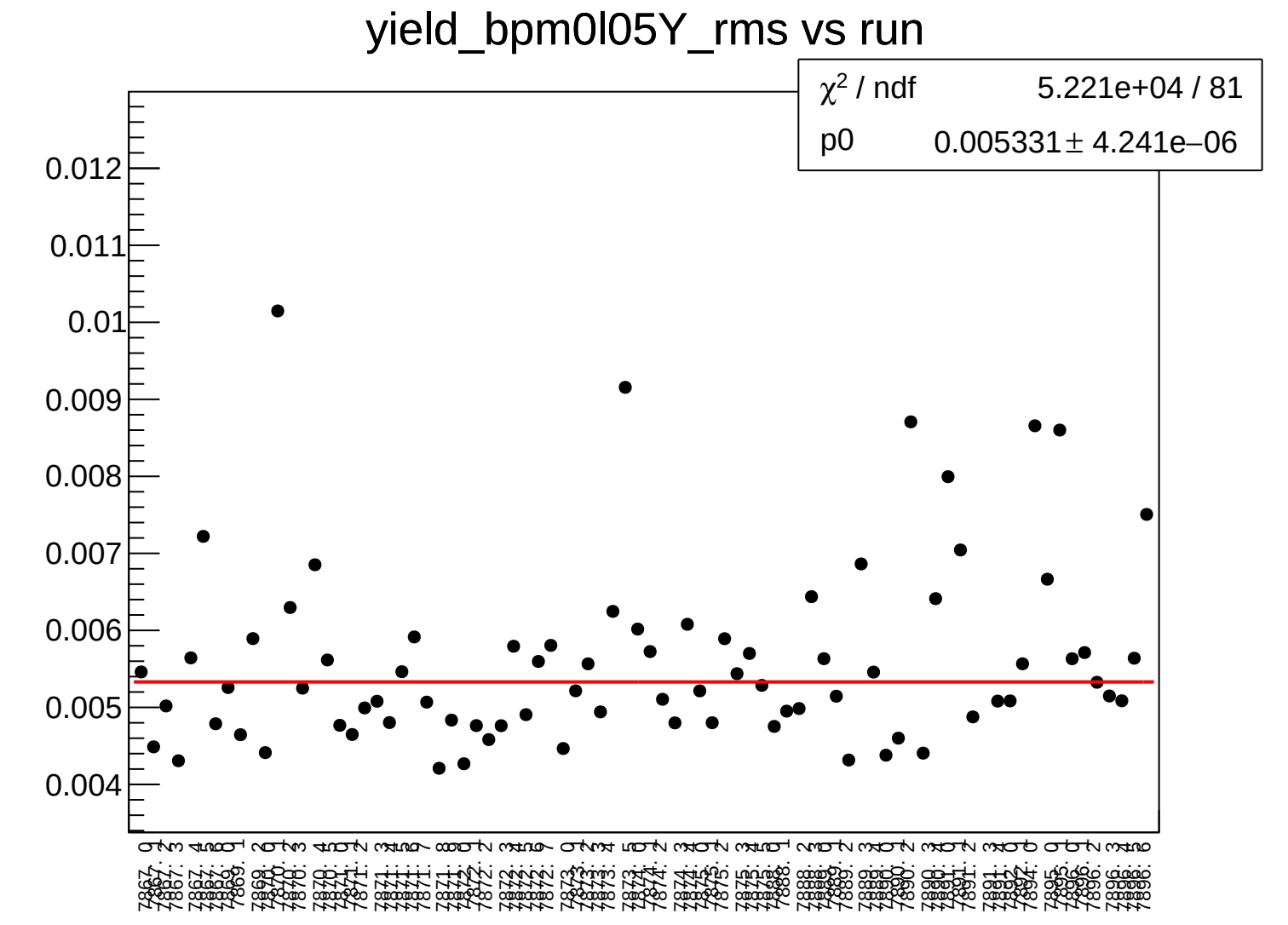

yield_bpm0l04Y_rms vs run
χ^2 / ndf 5.077e+04 / 81
p0 0.005103 ± 4.058e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

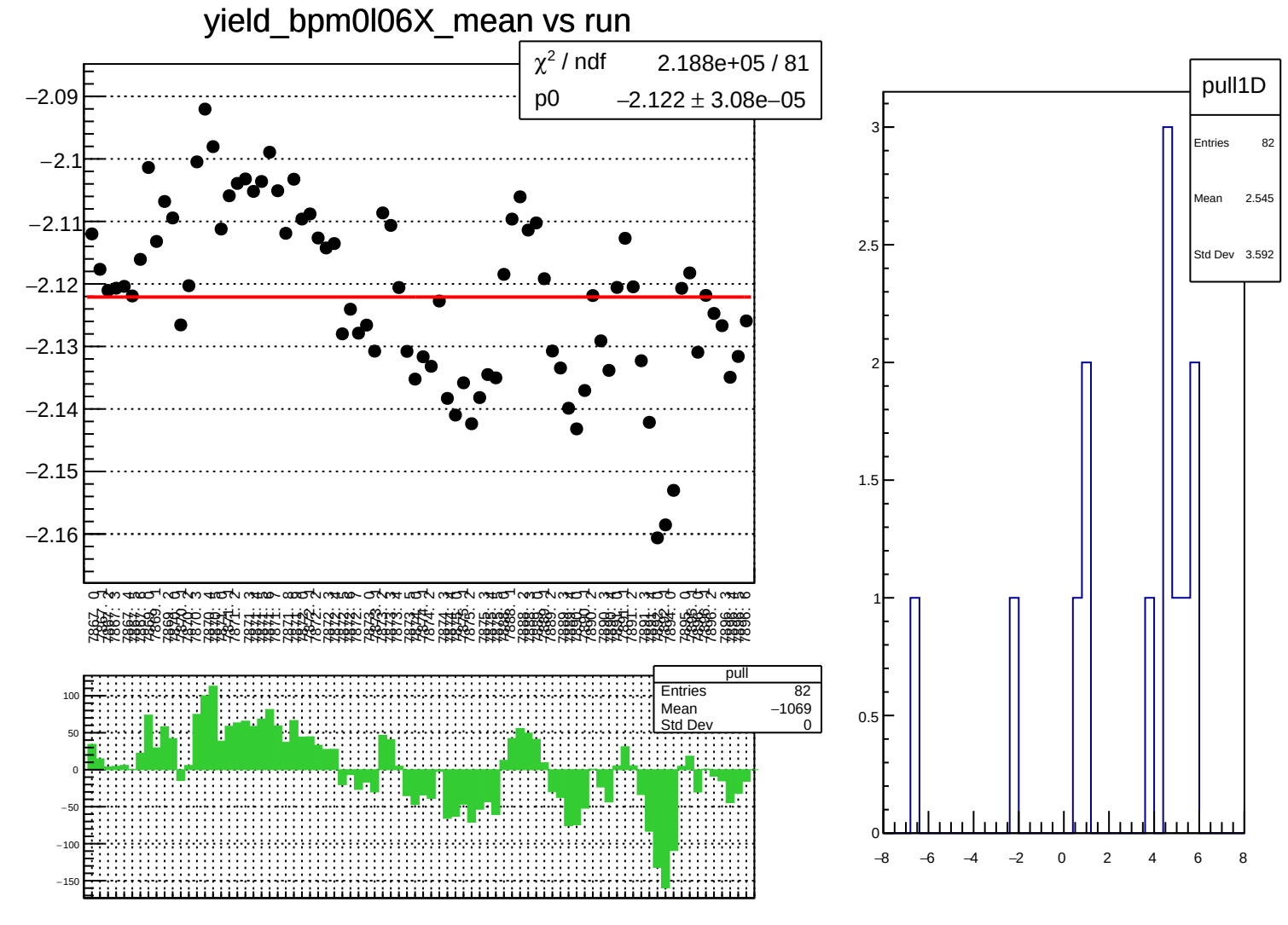

yield_bpm0l05X_mean vs run
χ² / ndf 2.984e+06 / 81
p0 0.566 ± 3.767e−06
0.58
0.575
0.57
0.565
0.56
0.555
0.55
0.545
pull
Entries 82
Mean 236.7
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

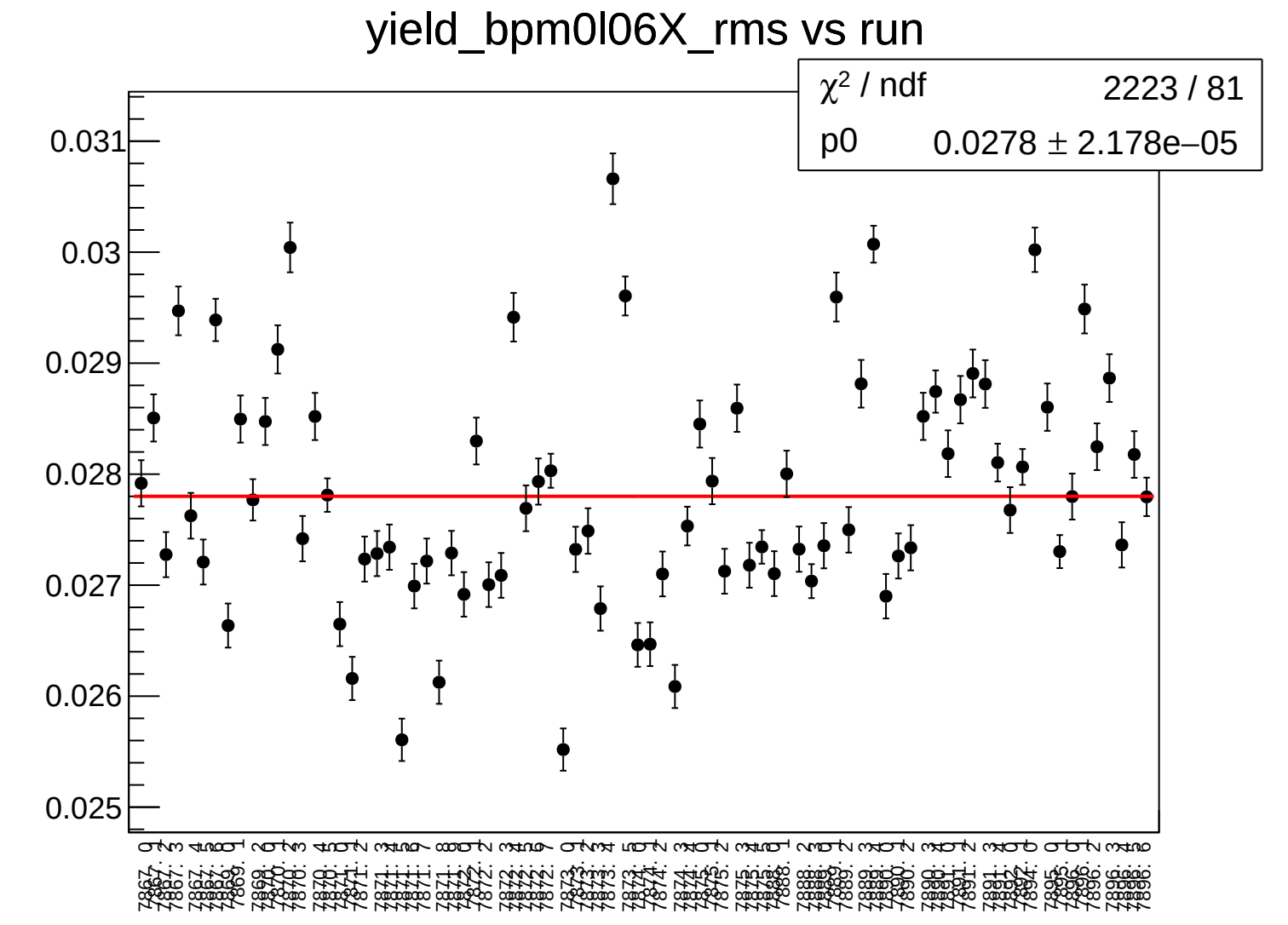

yield_bpm0l05X_rms vs run
χ^2 / ndf 5.042e+04 / 81
p0 0.00335 ± 2.663e−06
0.007
0.006
0.005
0.004
0.003

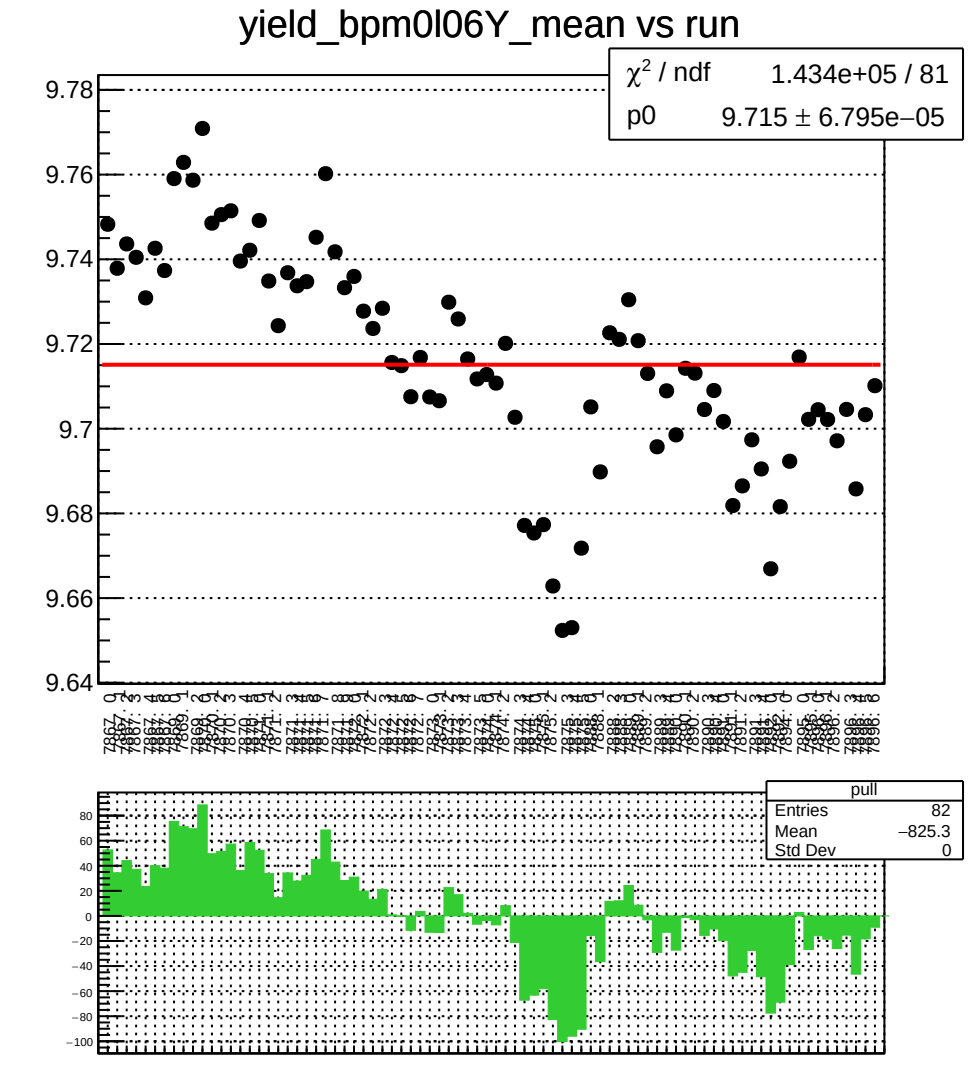

yield_bpm0l05Y_mean vs run
χ² / ndf 8.294e+07 / 81
p0 0.5674 ± 5.997e−06
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
pull
Entries 82
Mean 1197
Std Dev 0
2000
1500
1000
500
0
−500
−1000

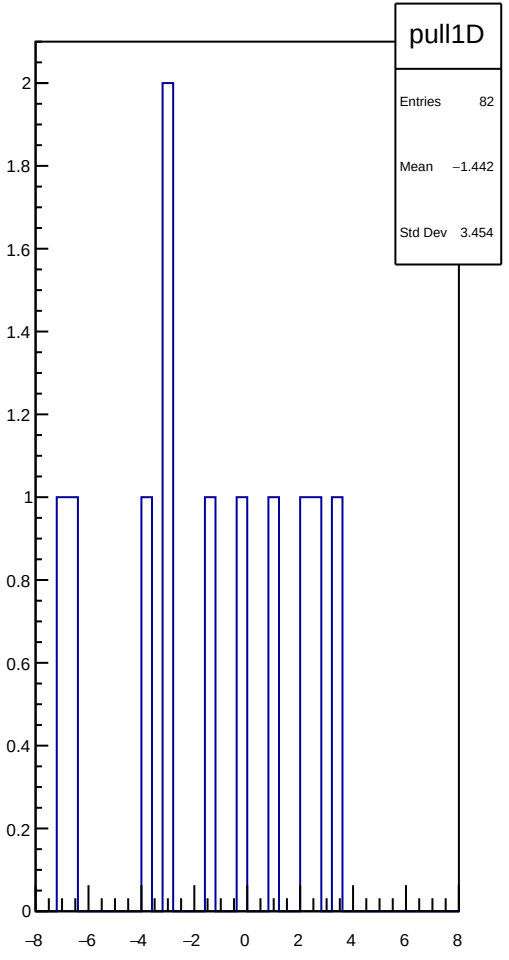

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

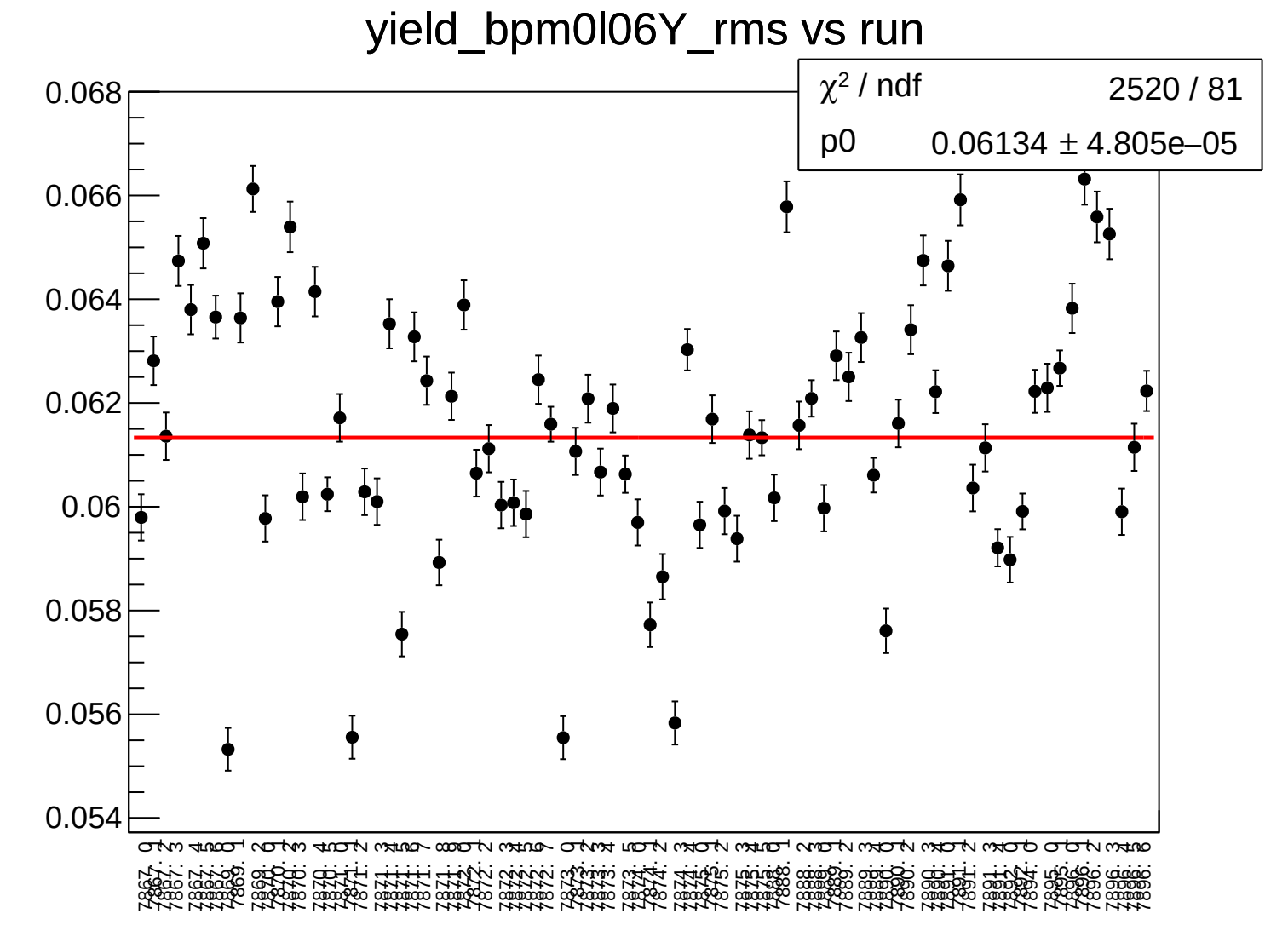

yield_bpm0l05Y_rms vs run
χ² / ndf 5.221e+04 / 81
p0 0.005331 ± 4.241e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

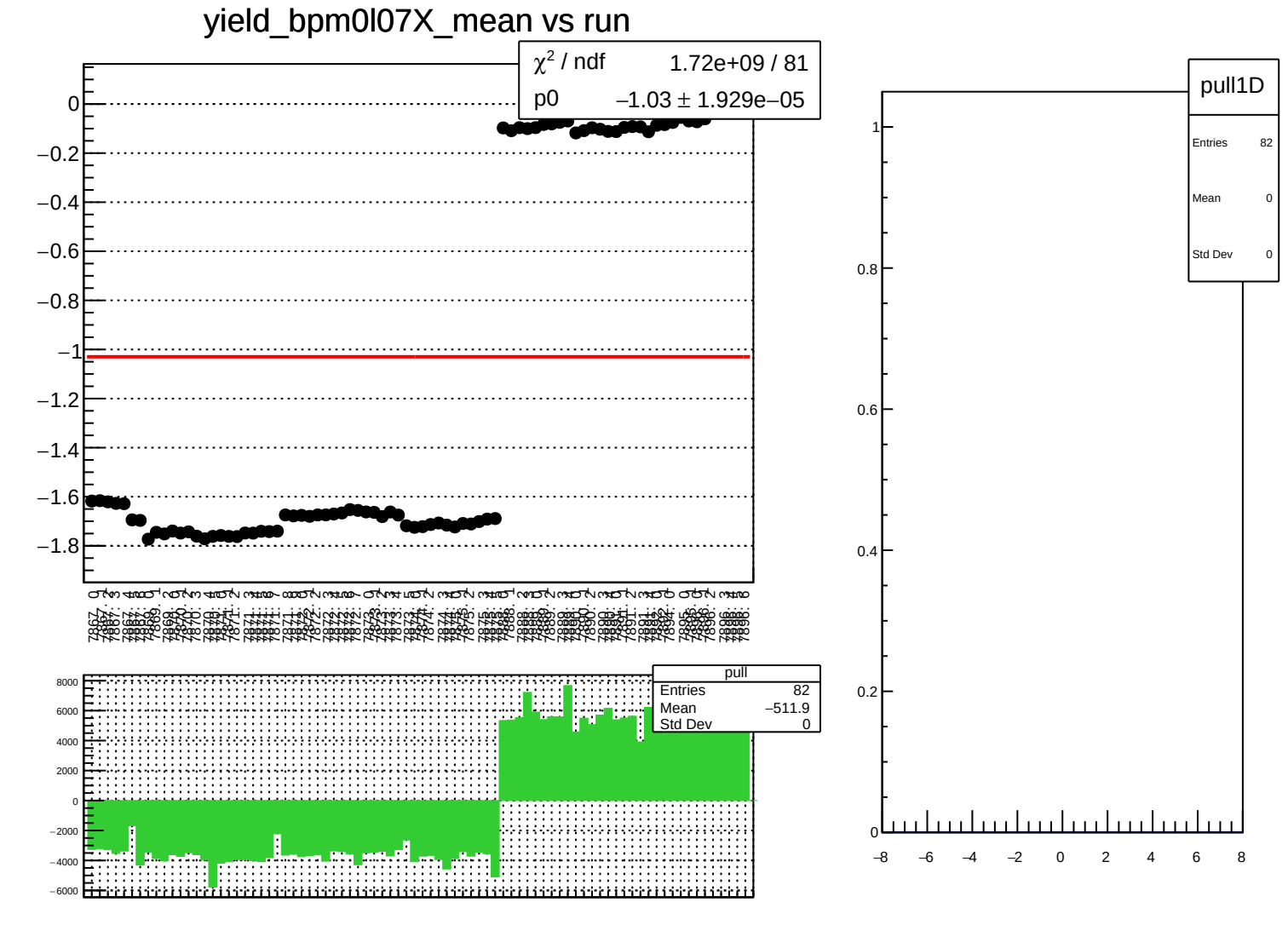

yield_bpm0l06X_mean vs run
χ² / ndf 2.188e+05 / 81
p0 −2.122 ± 3.08e−05
−2.09
−2.1
−2.11
−2.12
−2.13
−2.14
−2.15
−2.16
pull
Entries 82
Mean −1069
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 82
Mean 2.545
Std Dev 3.592
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

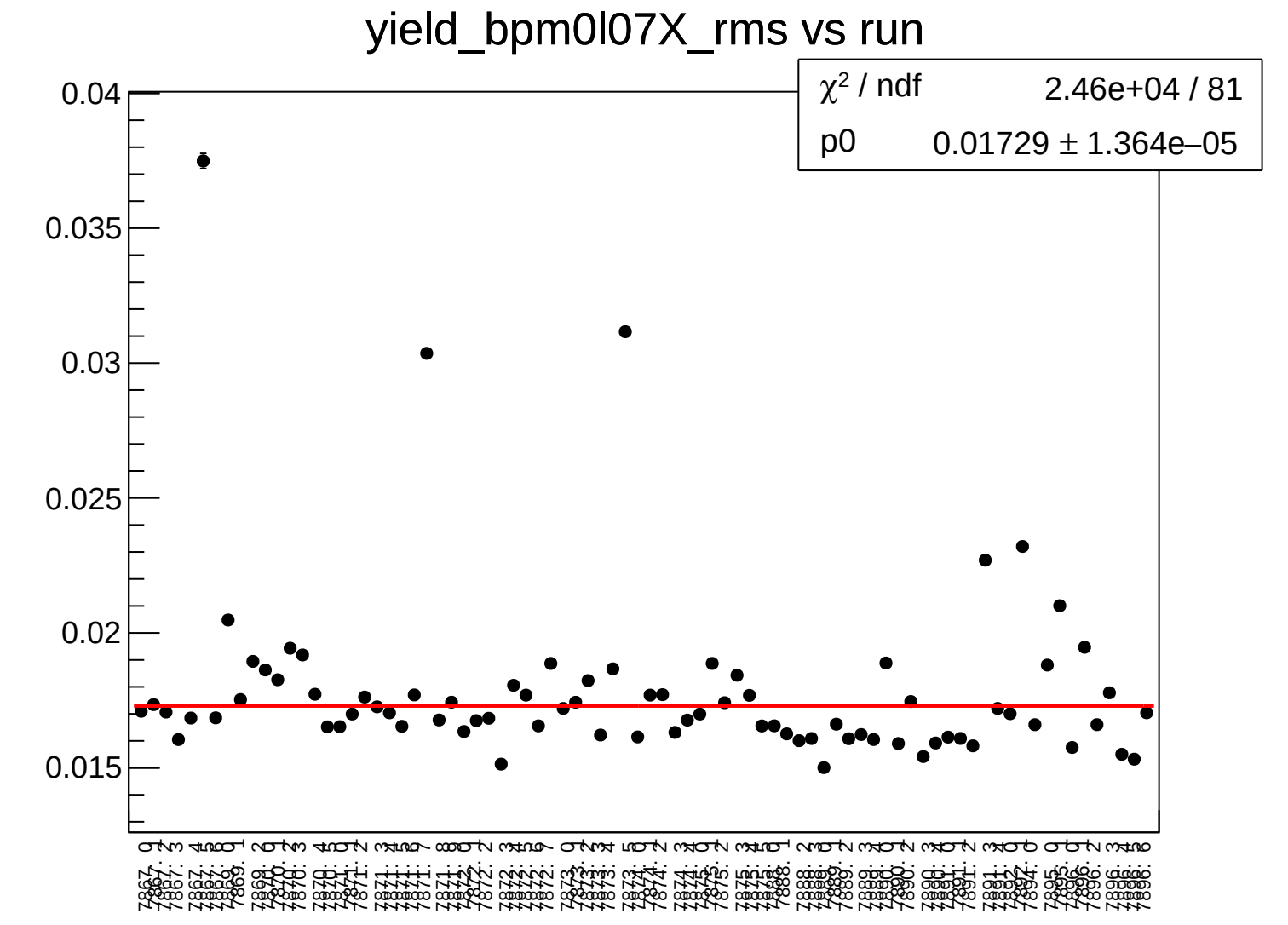

yield_bpm0l06X_rms vs run
χ² / ndf 2223 / 81
p0 0.0278 ± 2.178e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025

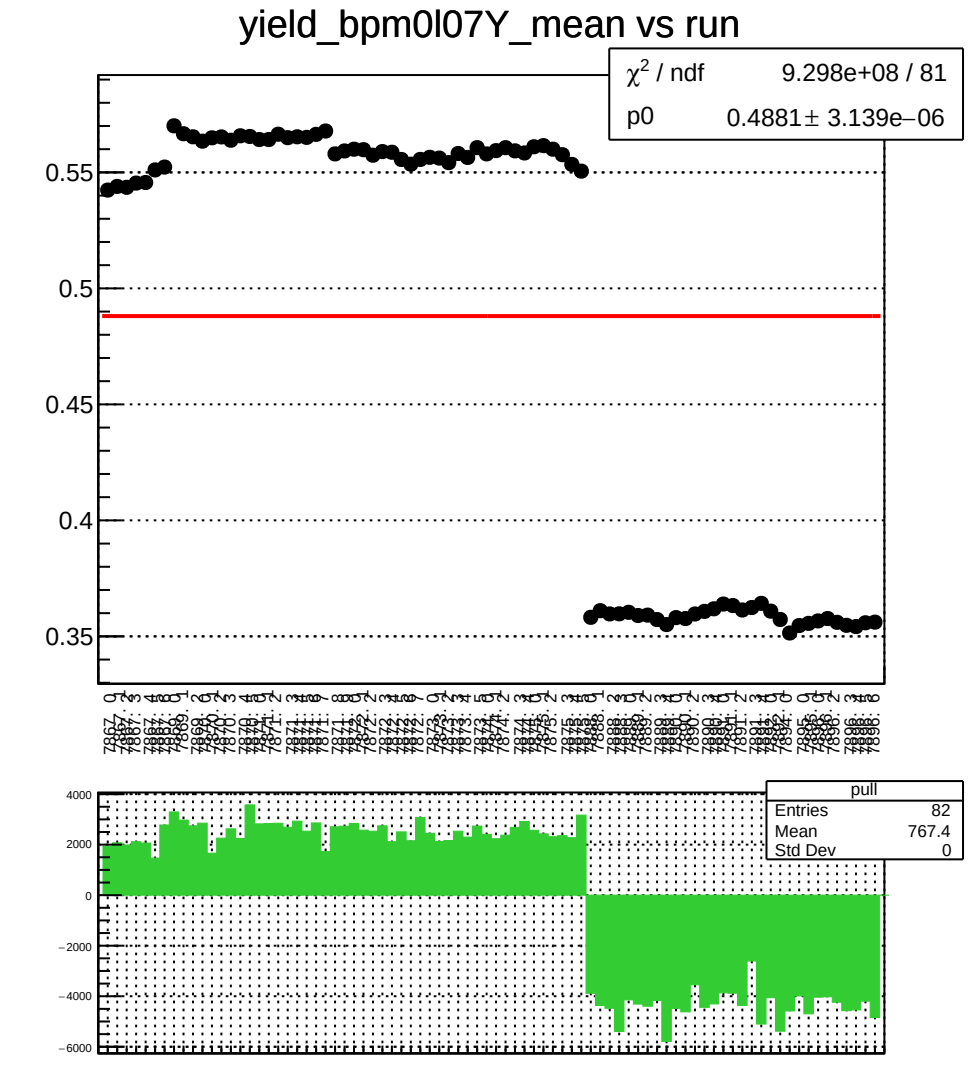

yield_bpm0l06Y_mean vs run
χ² / ndf 1.434e+05 / 81
p0 9.715 ± 6.795e−05
9.78
9.76
9.74
9.72
9.7
9.68
9.66
9.64
pull
Entries 82
Mean −825.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

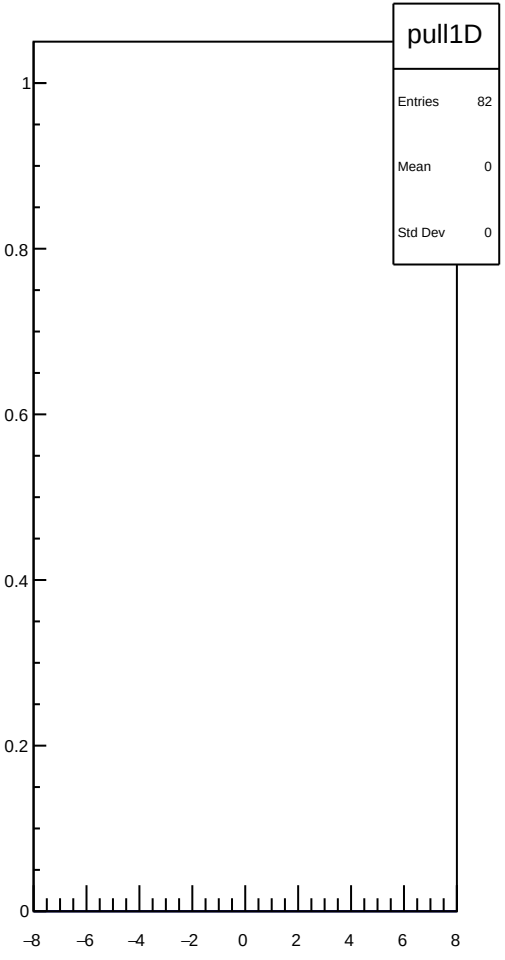

pull1D
Entries 82
Mean −1.442
Std Dev 3.454
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

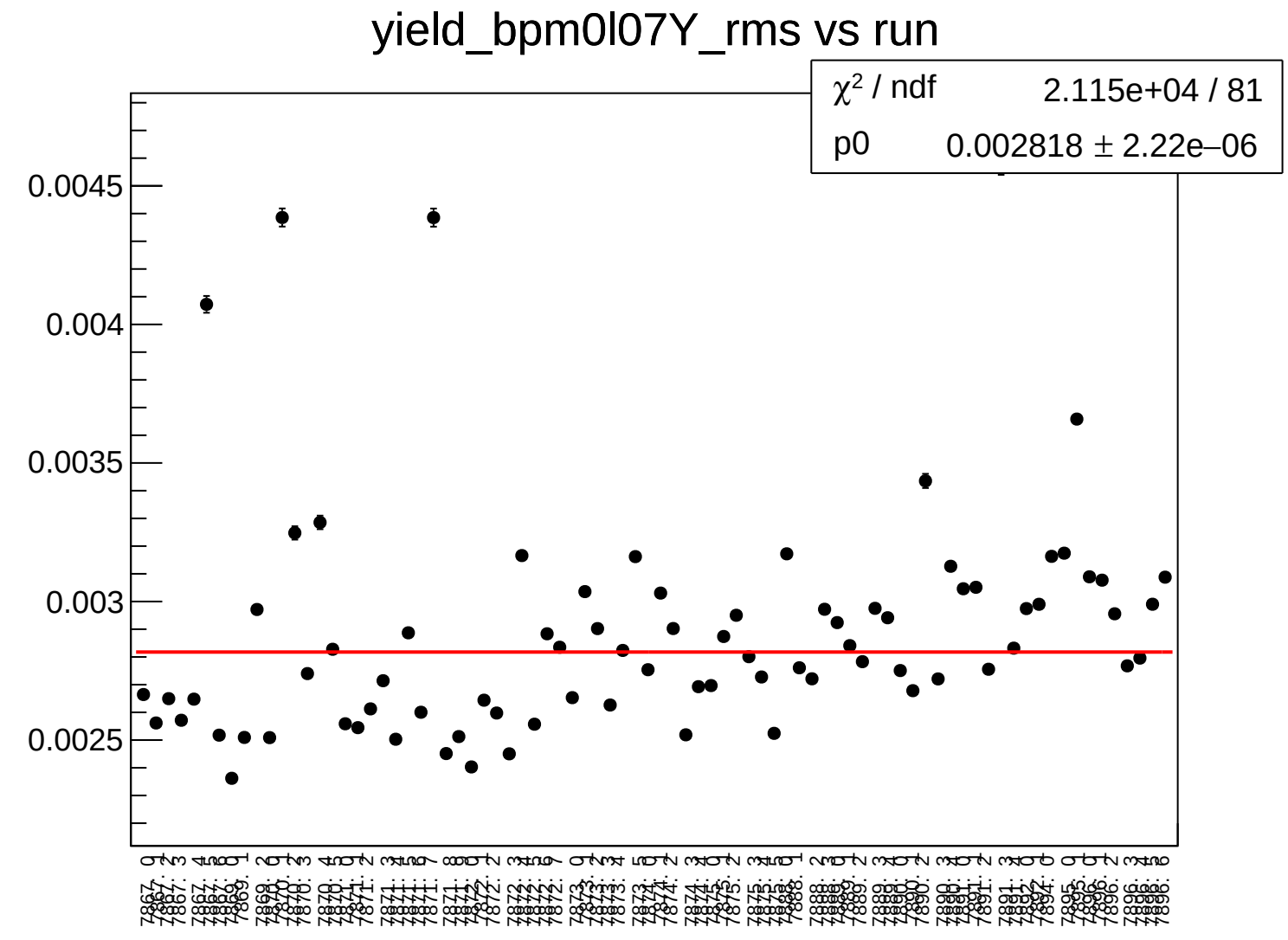

yield_bpm0l06Y_rms vs run
χ² / ndf 2520 / 81
p0 0.06134 ± 4.805e–05
0.068
0.066
0.064
0.062
0.06
0.058
0.056
0.054

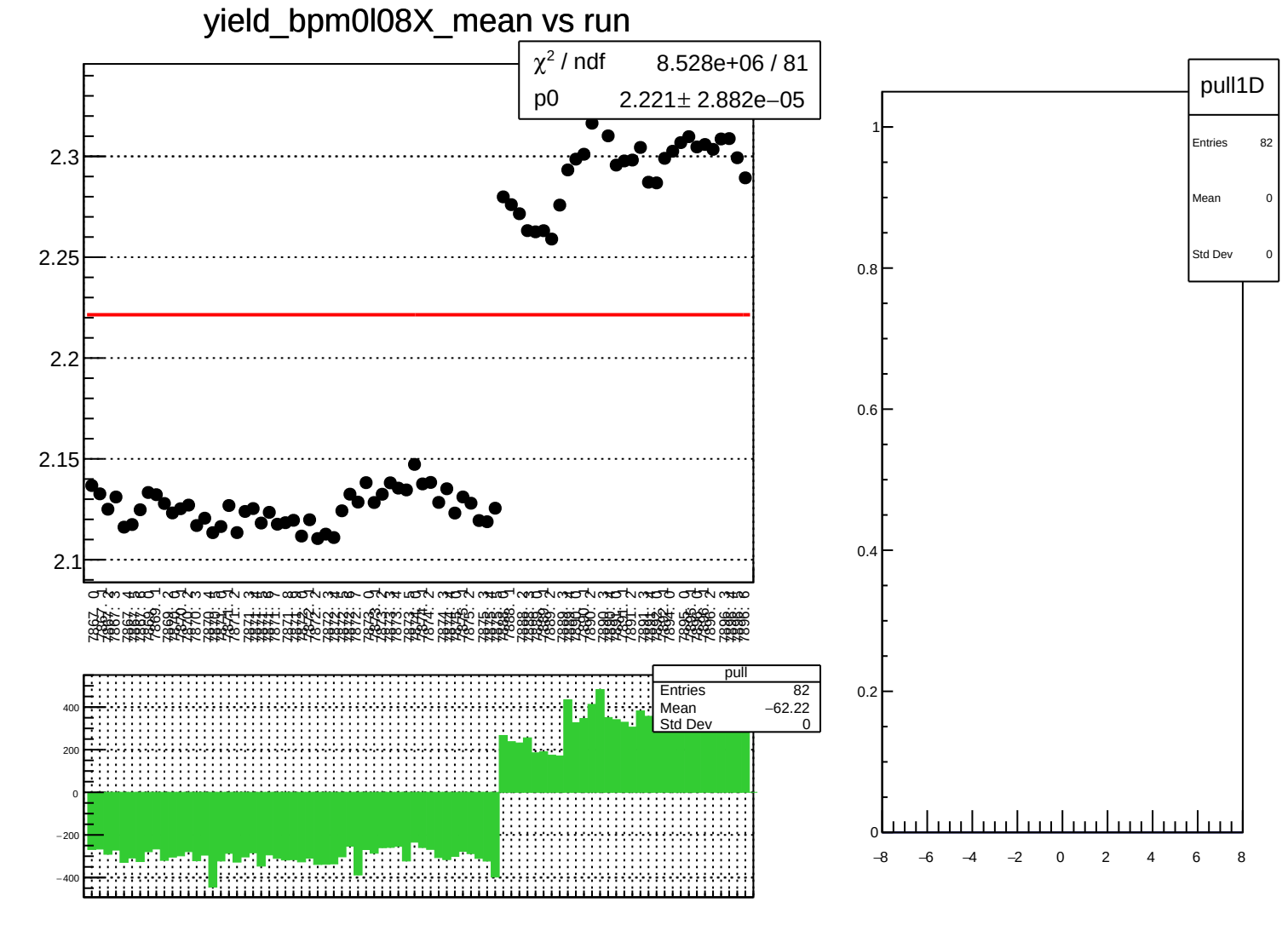

yield_bpm0l07X_mean vs run
χ² / ndf 1.72e+09 / 81
p0 −1.03 ± 1.929e−05
pull
Entries 82
Mean −511.9
Std Dev 0
pull1D
Entries 82
Mean 0
Std Dev 0

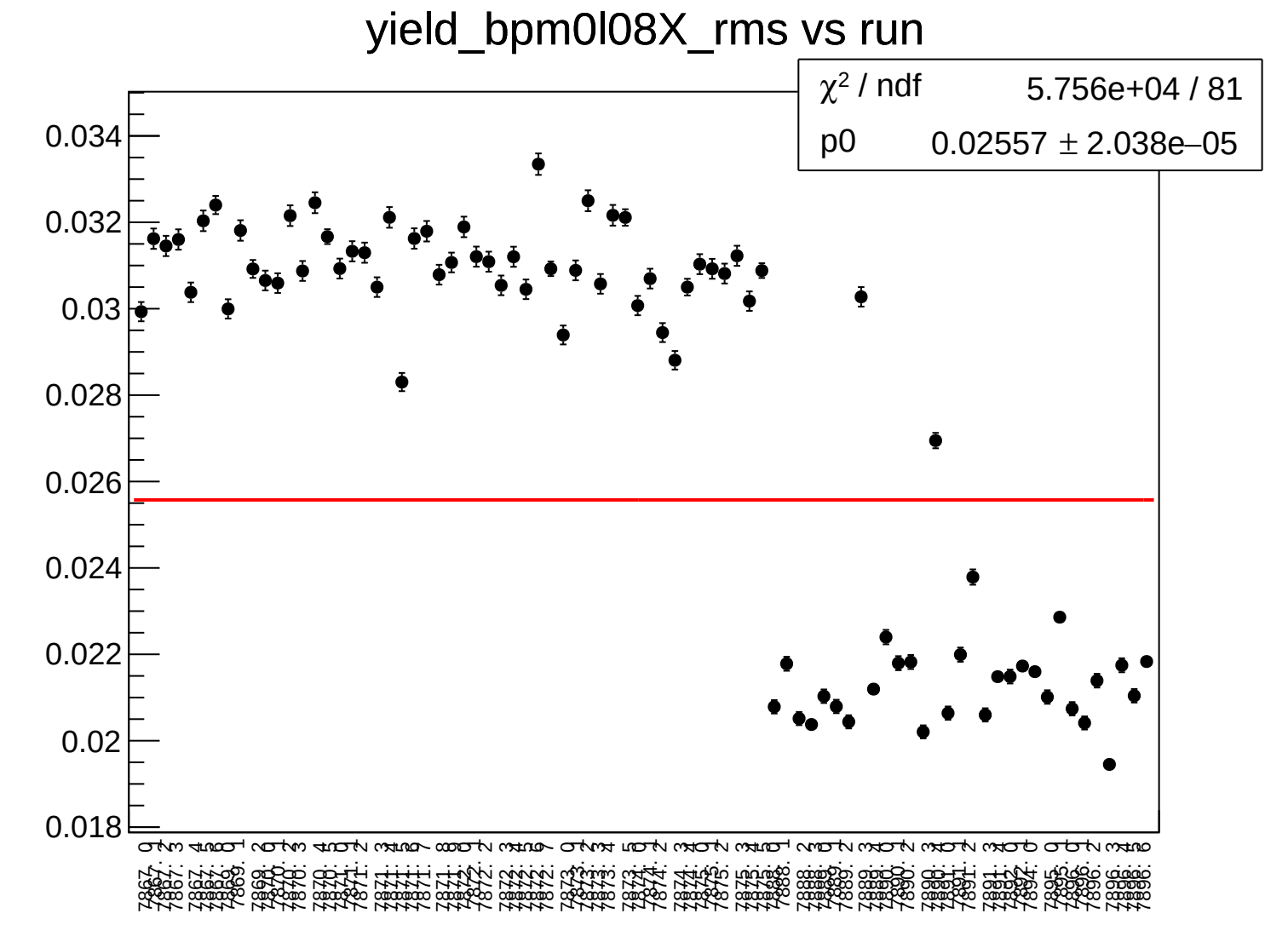

yield_bpm0l07X_rms vs run
χ² / ndf 2.46e+04 / 81
p0 0.01729 ± 1.364e–05
0.04
0.035
0.03
0.025
0.02
0.015

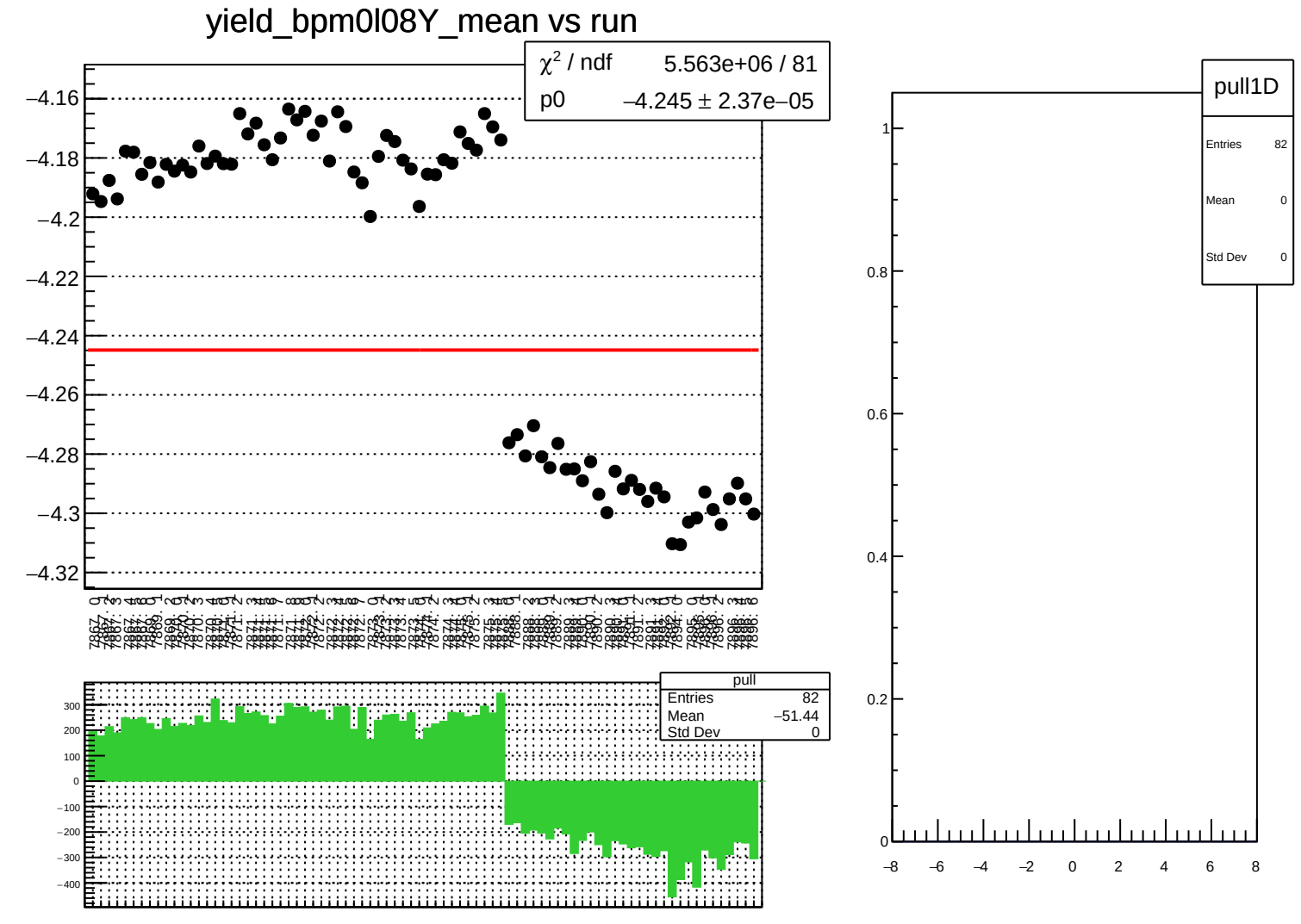

yield_bpm0l07Y_mean vs run
χ² / ndf 9.298e+08 / 81
p0 0.4881 ± 3.139e−06
0.55
0.5
0.45
0.4
0.35
pull
Entries 82
Mean 767.4
Std Dev 0
4000
2000
0
−2000
−4000
−6000

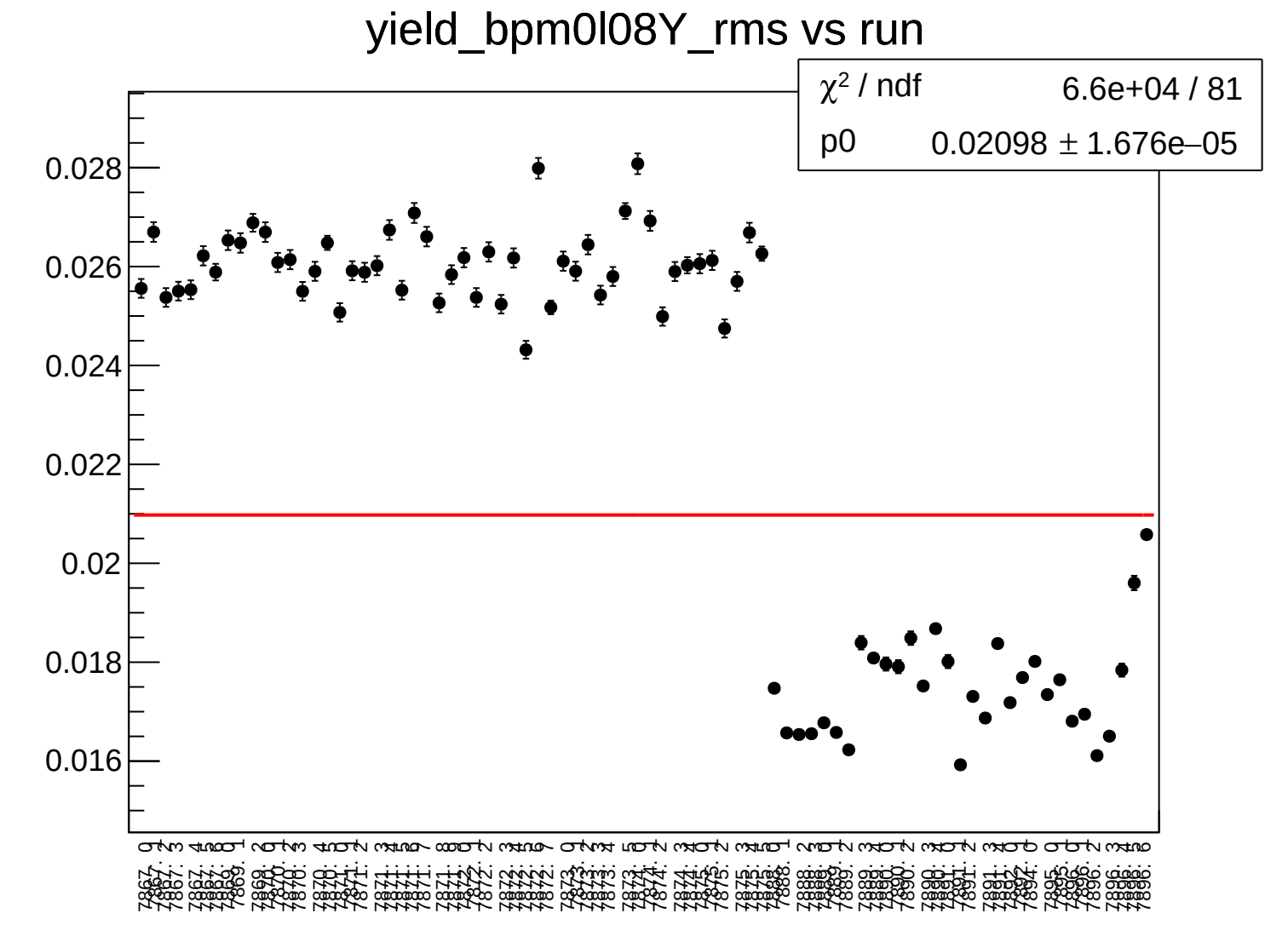

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

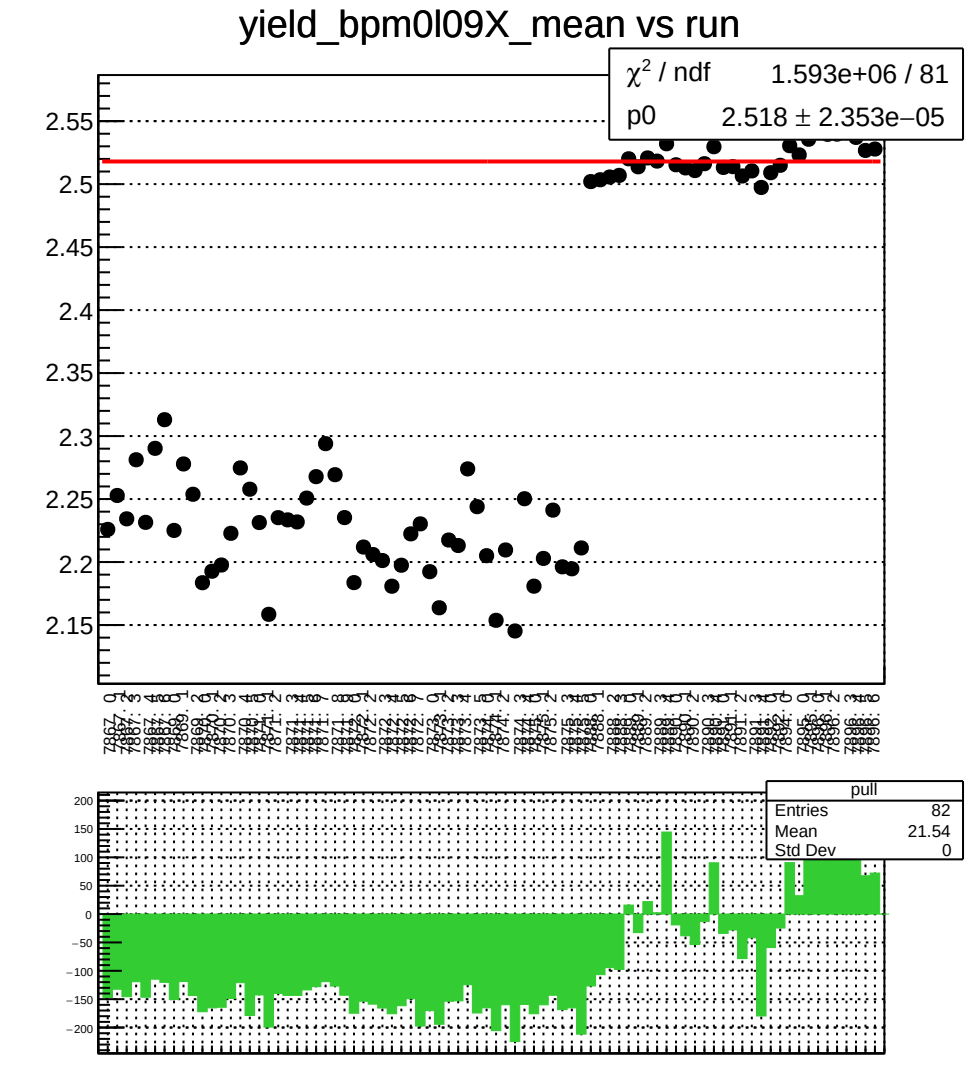

yield_bpm0l07Y_rms vs run
χ² / ndf 2.115e+04 / 81
p0 0.002818 ± 2.22e−06
0.0045
0.004
0.0035
0.003
0.0025

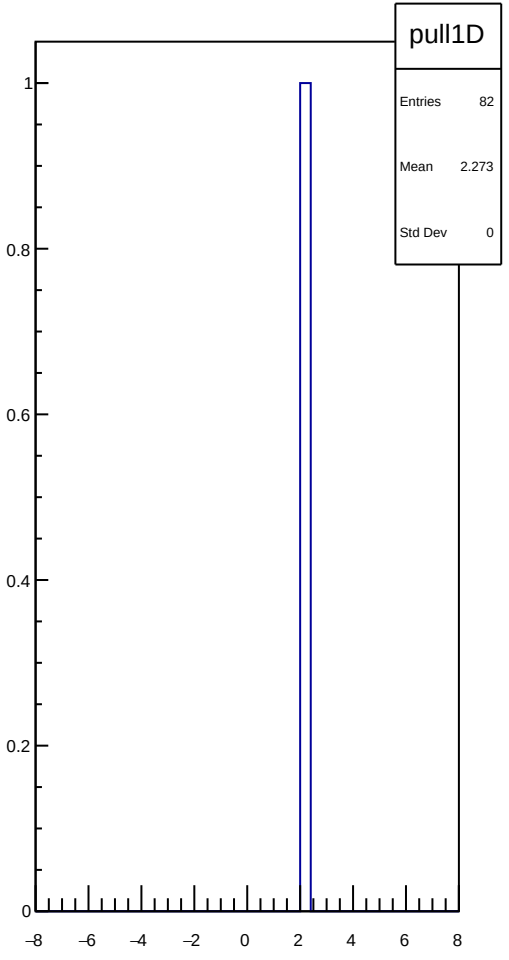

yield_bpm0l08X_mean vs run
χ² / ndf 8.528e+06 / 81
p0 2.221± 2.882e−05
2.3
2.25
2.2
2.15
2.1
pull
Entries 82
Mean −62.22
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

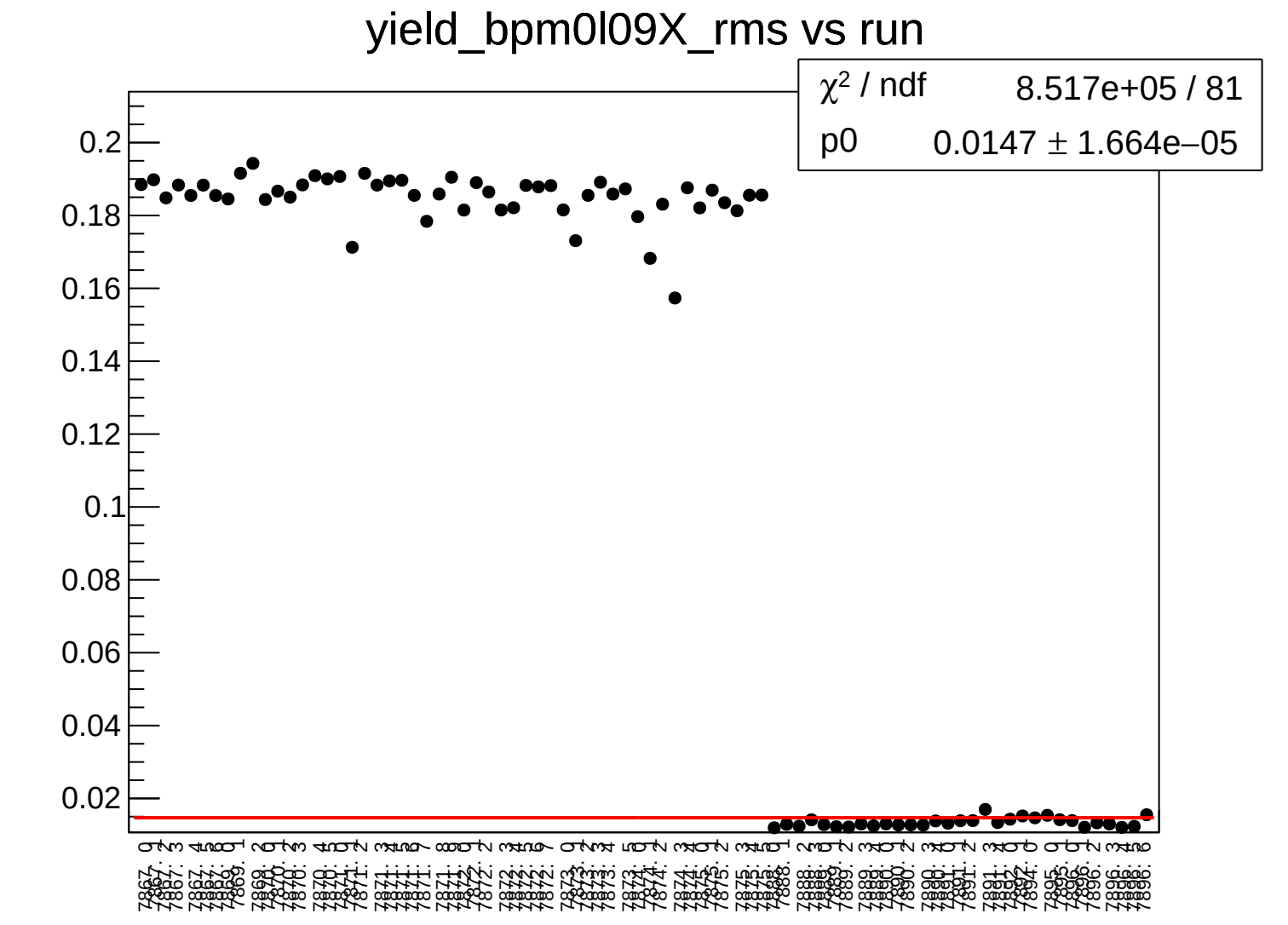

yield_bpm0l08X_rms vs run
χ² / ndf 5.756e+04 / 81
p0 0.02557 ± 2.038e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

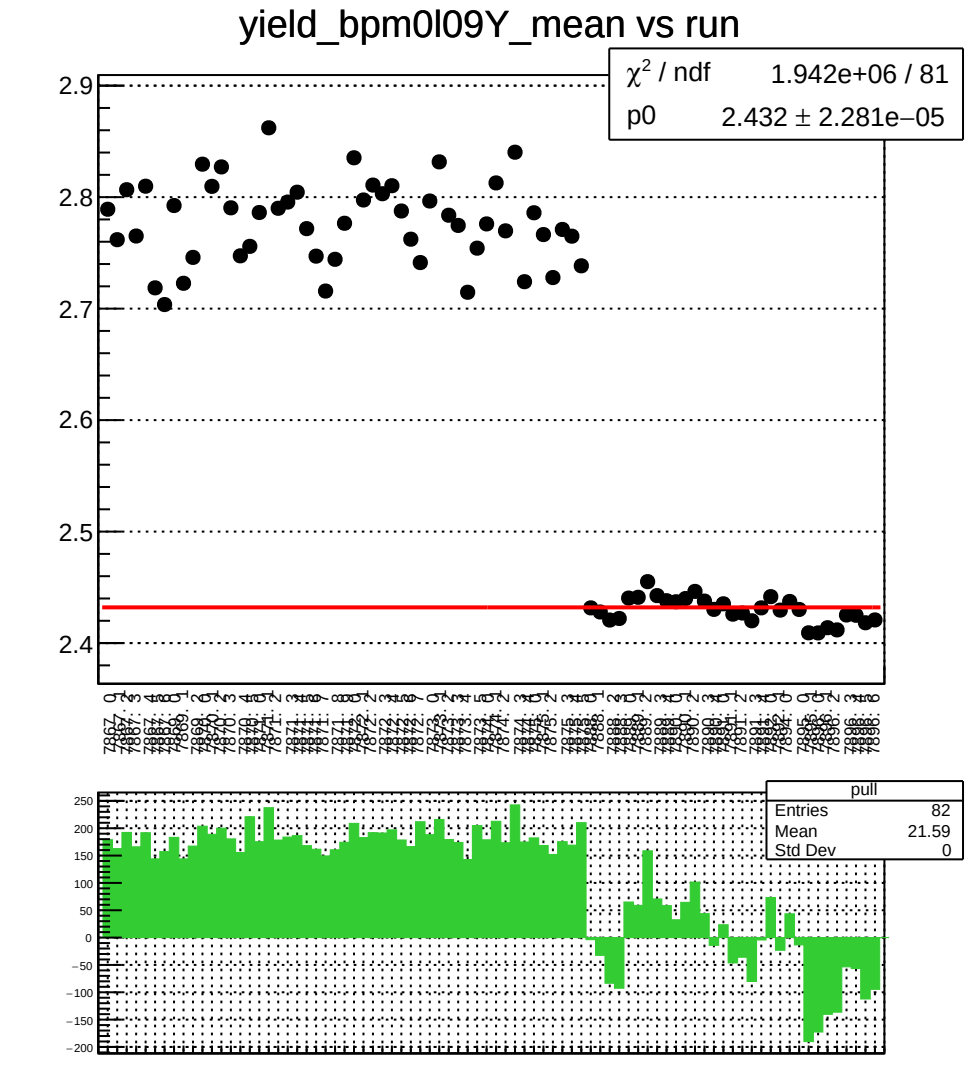

yield_bpm0l08Y_mean vs run
χ² / ndf 5.563e+06 / 81
p0 –4.245 ± 2.37e–05
–4.16
–4.18
–4.2
–4.22
–4.24
–4.26
–4.28
–4.3
–4.32
pull
Entries 82
Mean –51.44
Std Dev 0
300
200
100
0
–100
–200
–300
–400
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

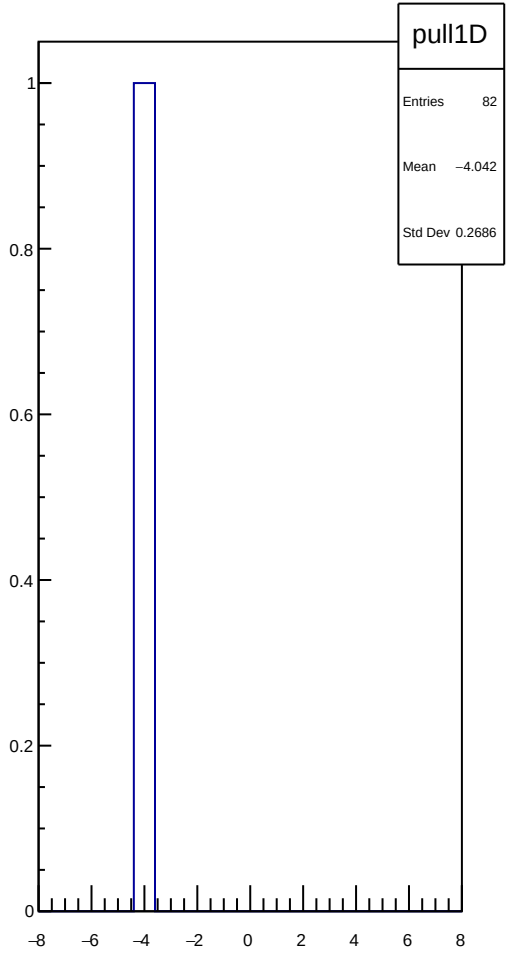

yield_bpm0l08Y_rms vs run
χ² / ndf 6.6e+04 / 81
p0 0.02098 ± 1.676e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016

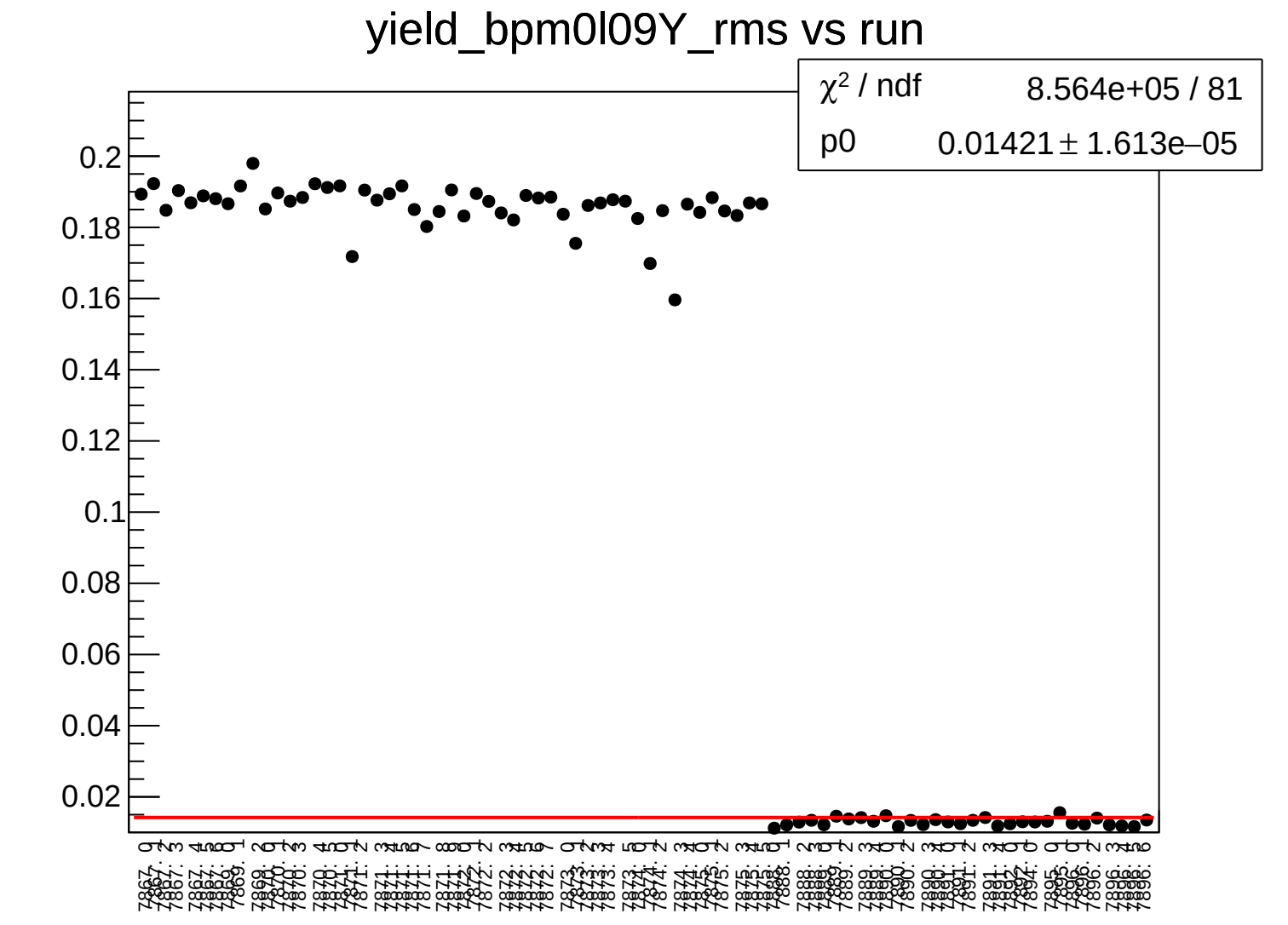

yield_bpm0l09X_mean vs run
χ² / ndf 1.593e+06 / 81
p0 2.518 ± 2.353e−05
2.55
2.5
2.45
2.4
2.35
2.3
2.25
2.2
2.15
pull
Entries 82
Mean 21.54
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

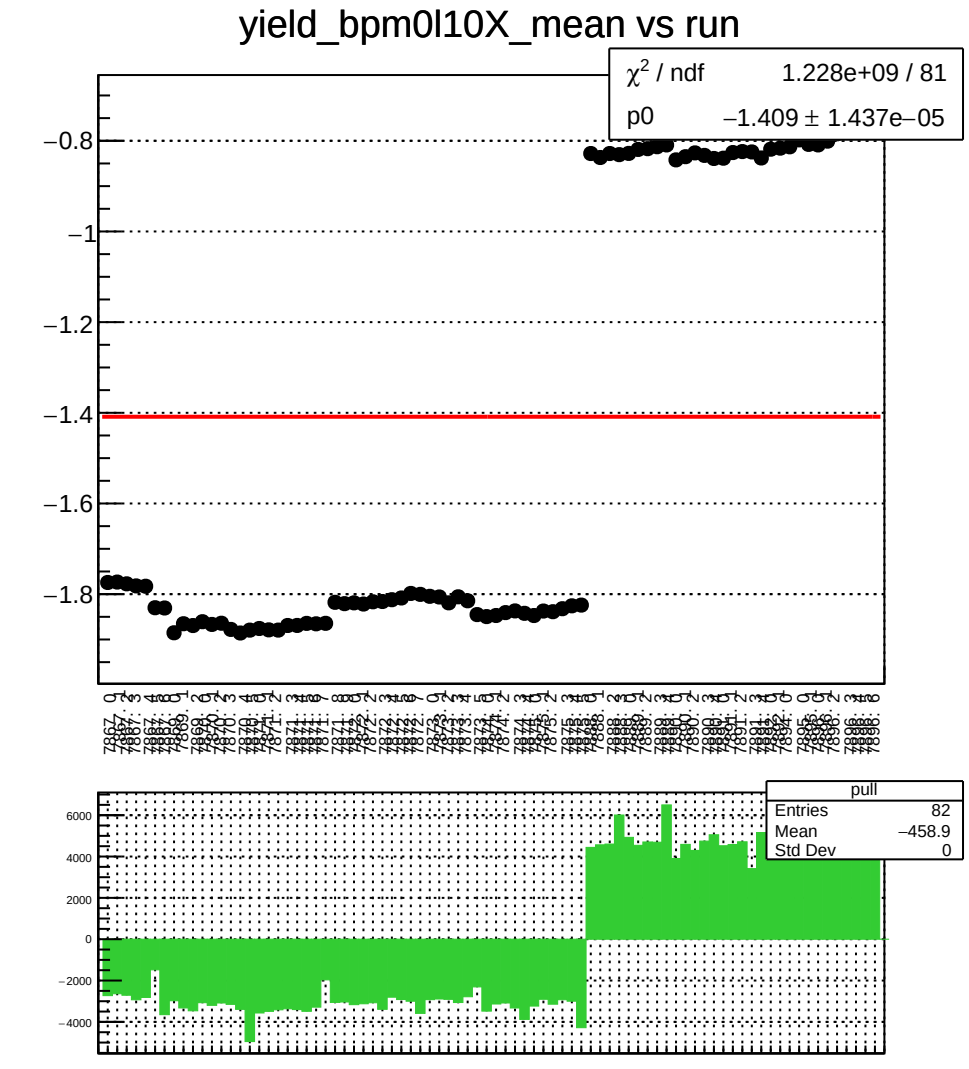

pull1D
Entries 82
Mean 2.273
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

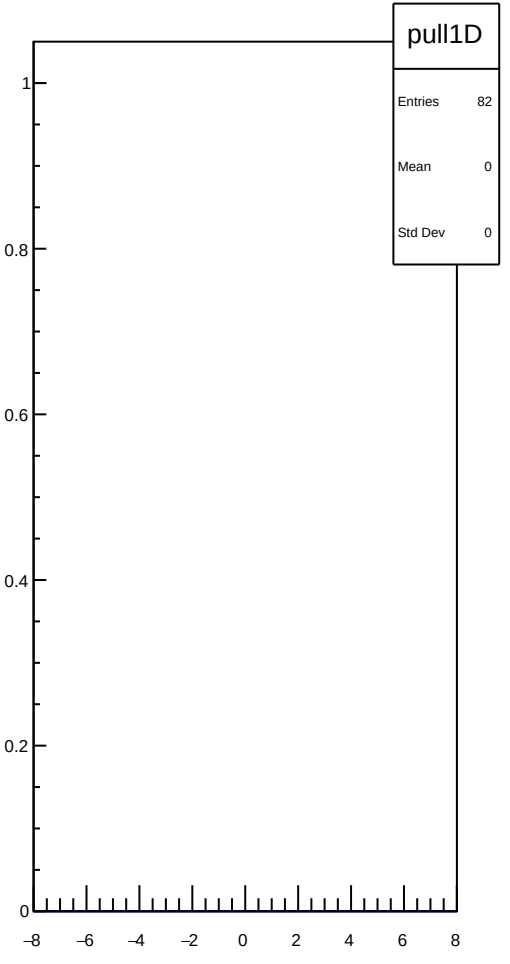

yield_bpm0l09X_rms vs run
χ^2 / ndf 8.517e+05 / 81
p0 0.0147 ± 1.664e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

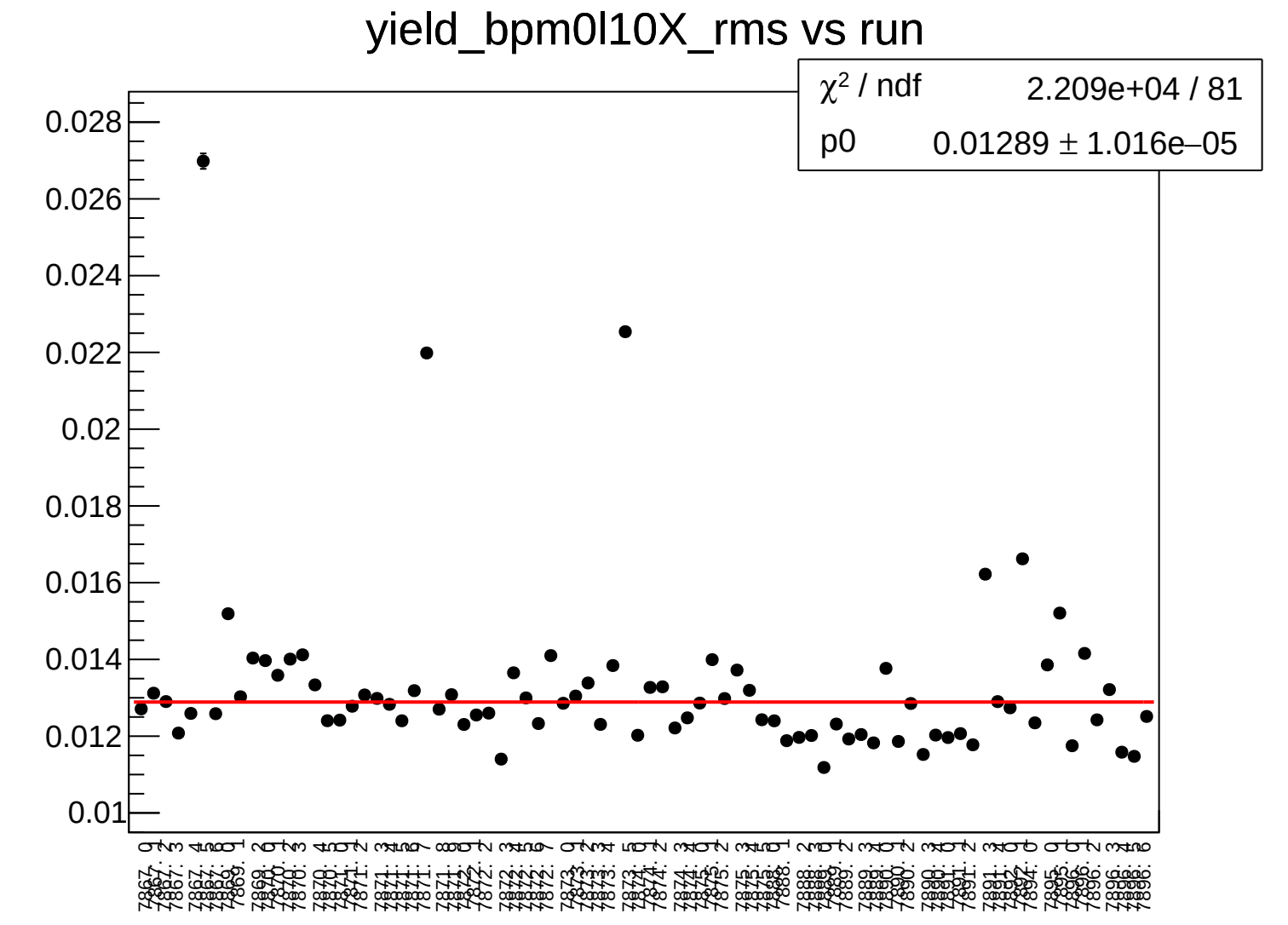

yield_bpm0l09Y_mean vs run
χ² / ndf 1.942e+06 / 81
p0 2.432 ± 2.281e−05
pull
Entries 82
Mean 21.59
Std Dev 0

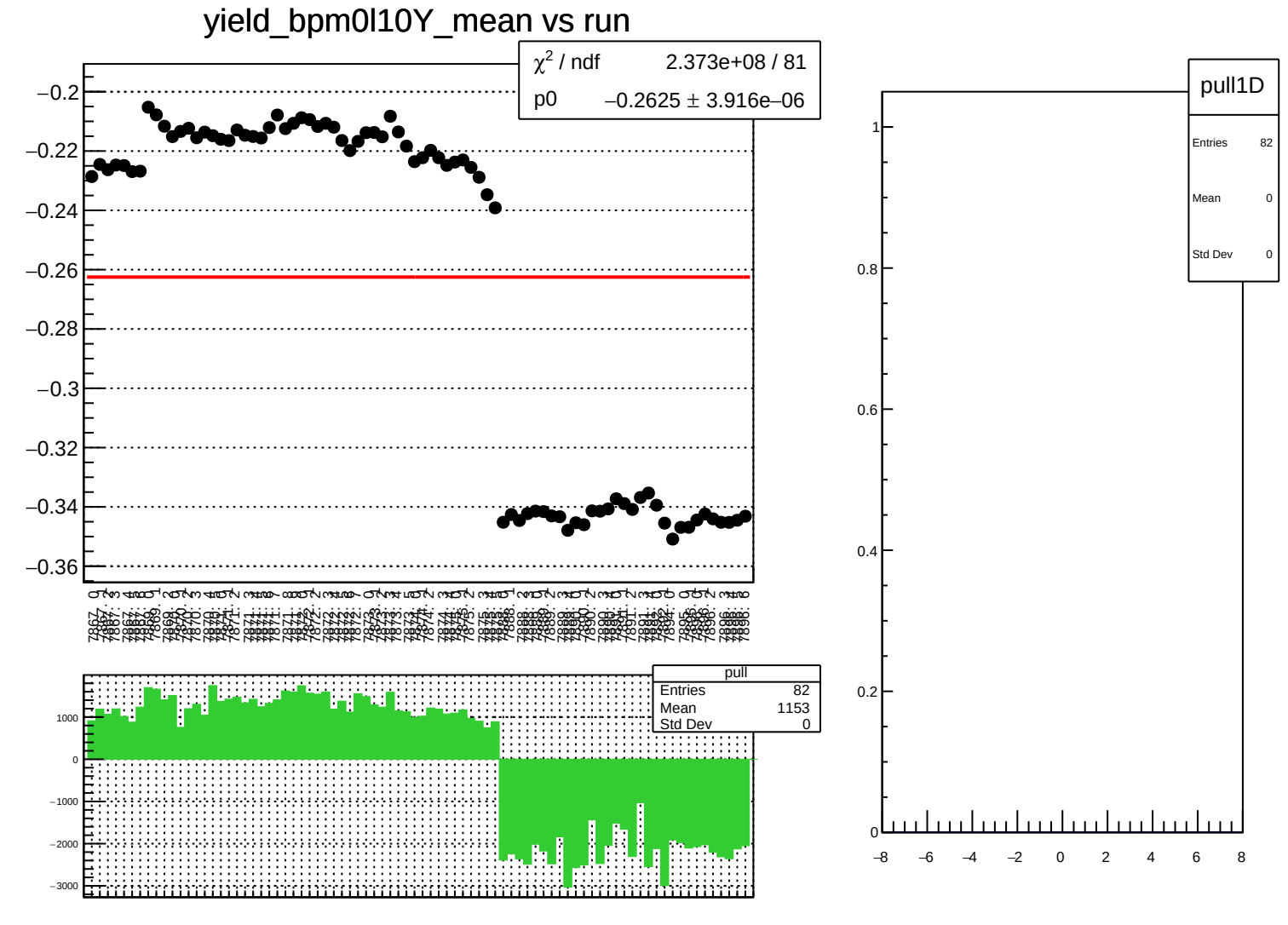

pull1D
Entries 82
Mean −4.042
Std Dev 0.2686

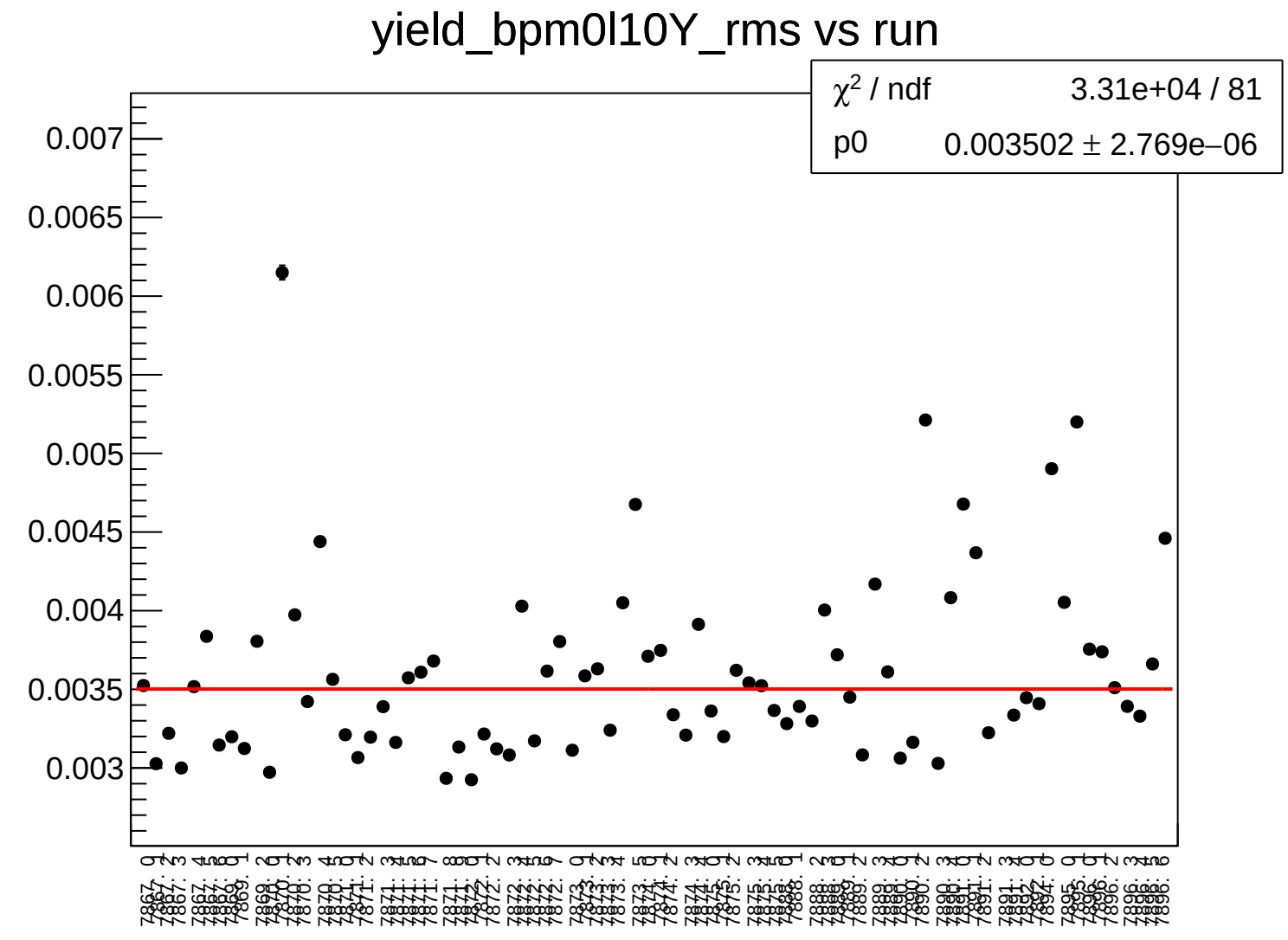

yield_bpm0l09Y_rms vs run
χ² / ndf 8.564e+05 / 81
p0 0.01421 ± 1.613e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

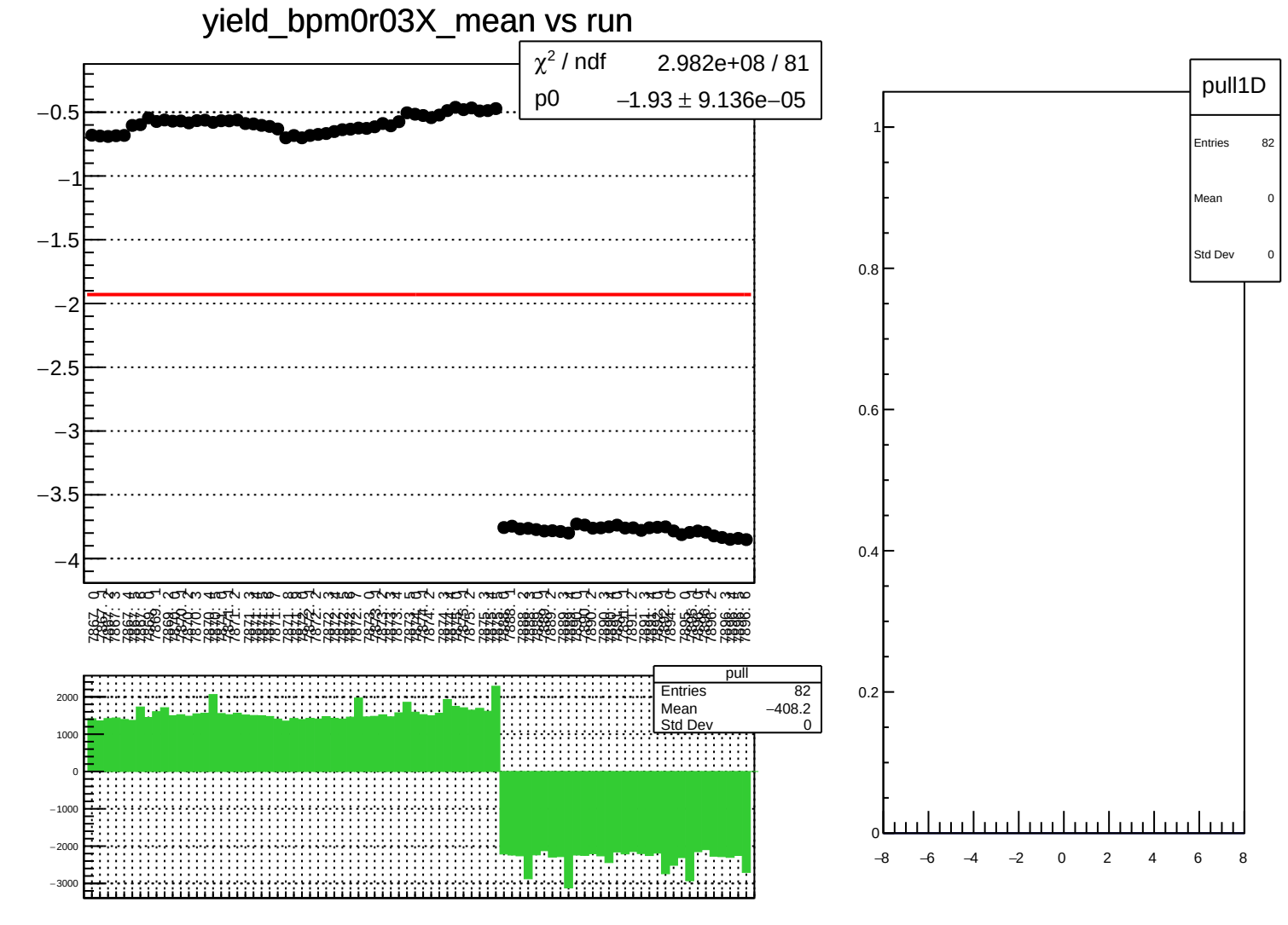

yield_bpm0l10X_mean vs run
χ² / ndf 1.228e+09 / 81
p0 −1.409 ± 1.437e−05
−0.8
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 82
Mean −458.9
Std Dev 0
6000
4000
2000
0
−2000
−4000

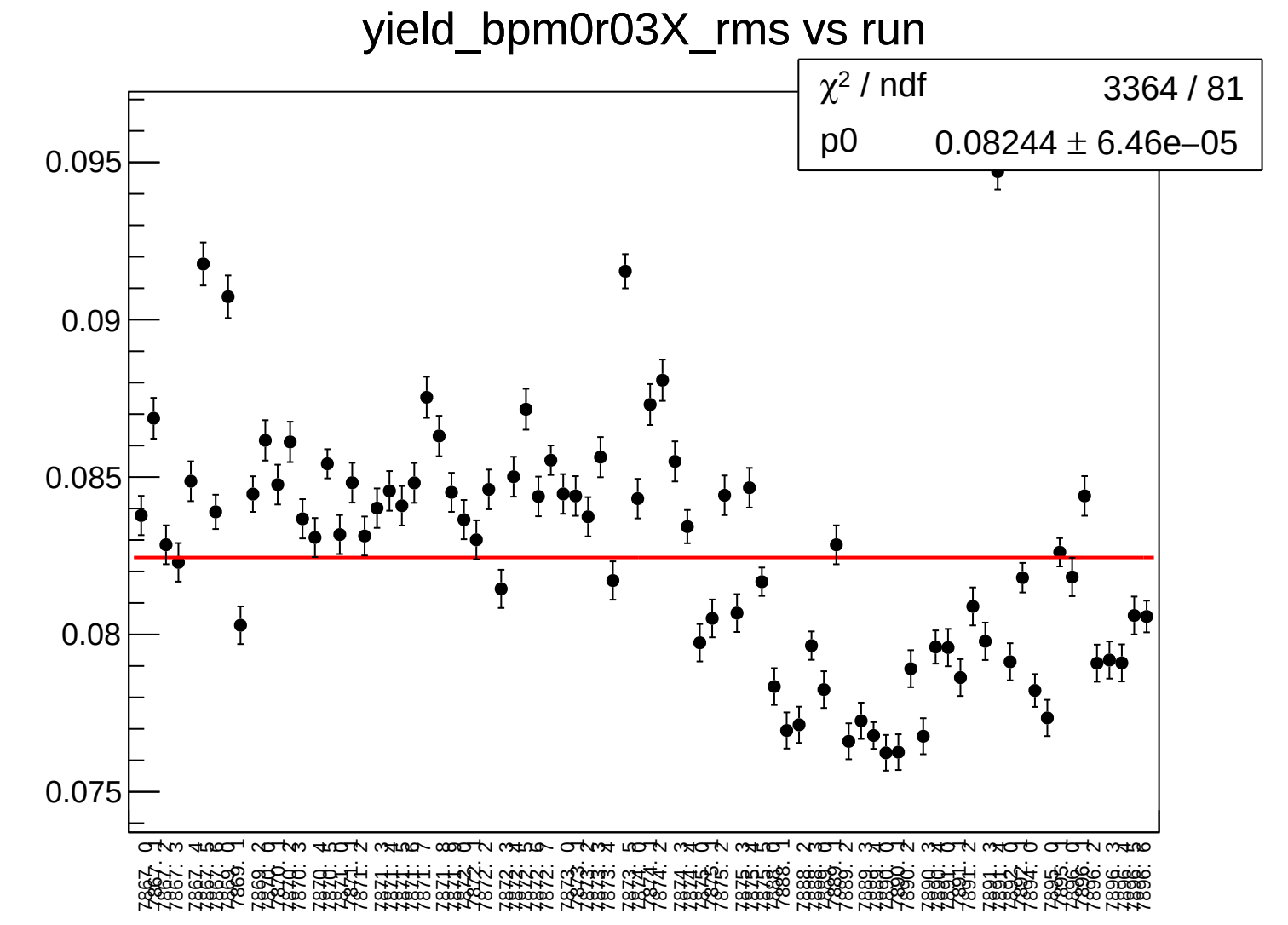

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

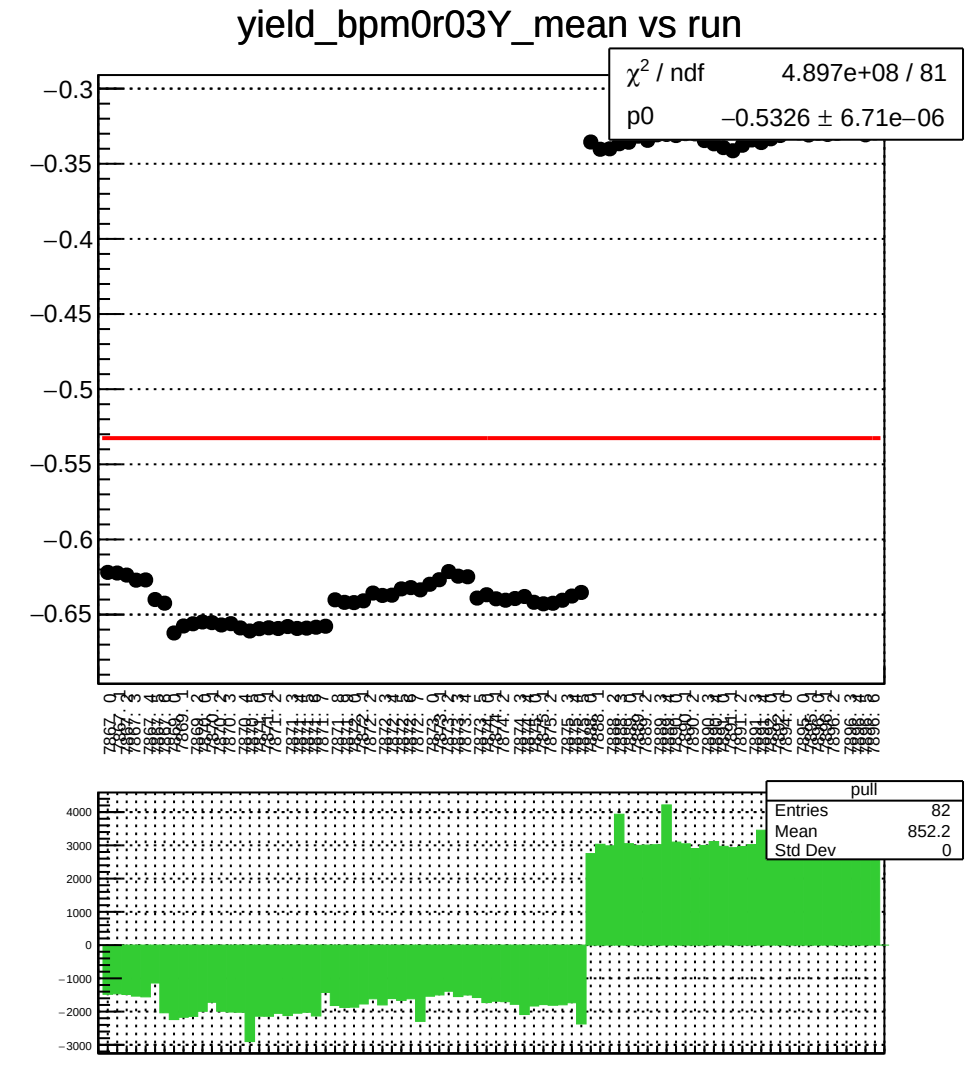

yield_bpm0l10X_rms vs run
χ² / ndf 2.209e+04 / 81
p0 0.01289 ± 1.016e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

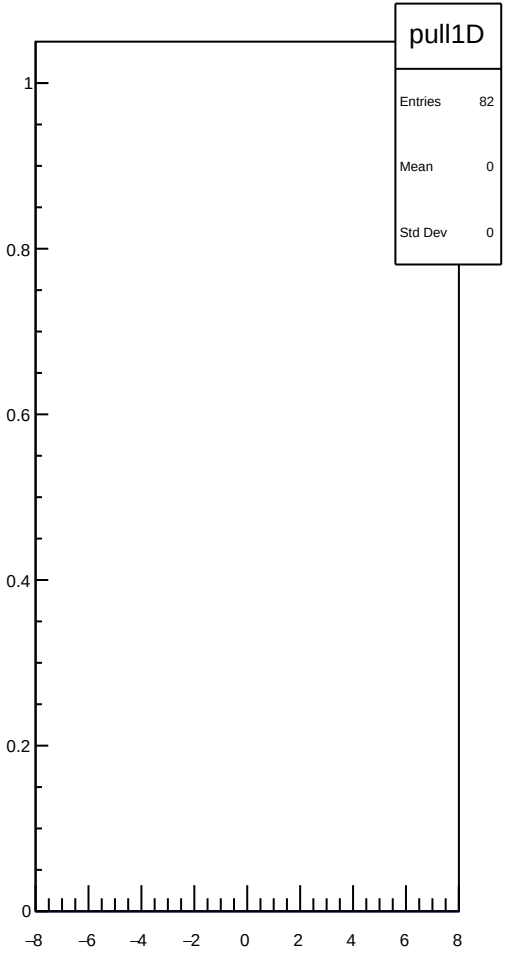

yield_bpm0l10Y_mean vs run
χ² / ndf 2.373e+08 / 81
p0 −0.2625 ± 3.916e−06
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 82
Mean 1153
Std Dev 0
1000
0
−1000
−2000
−3000
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

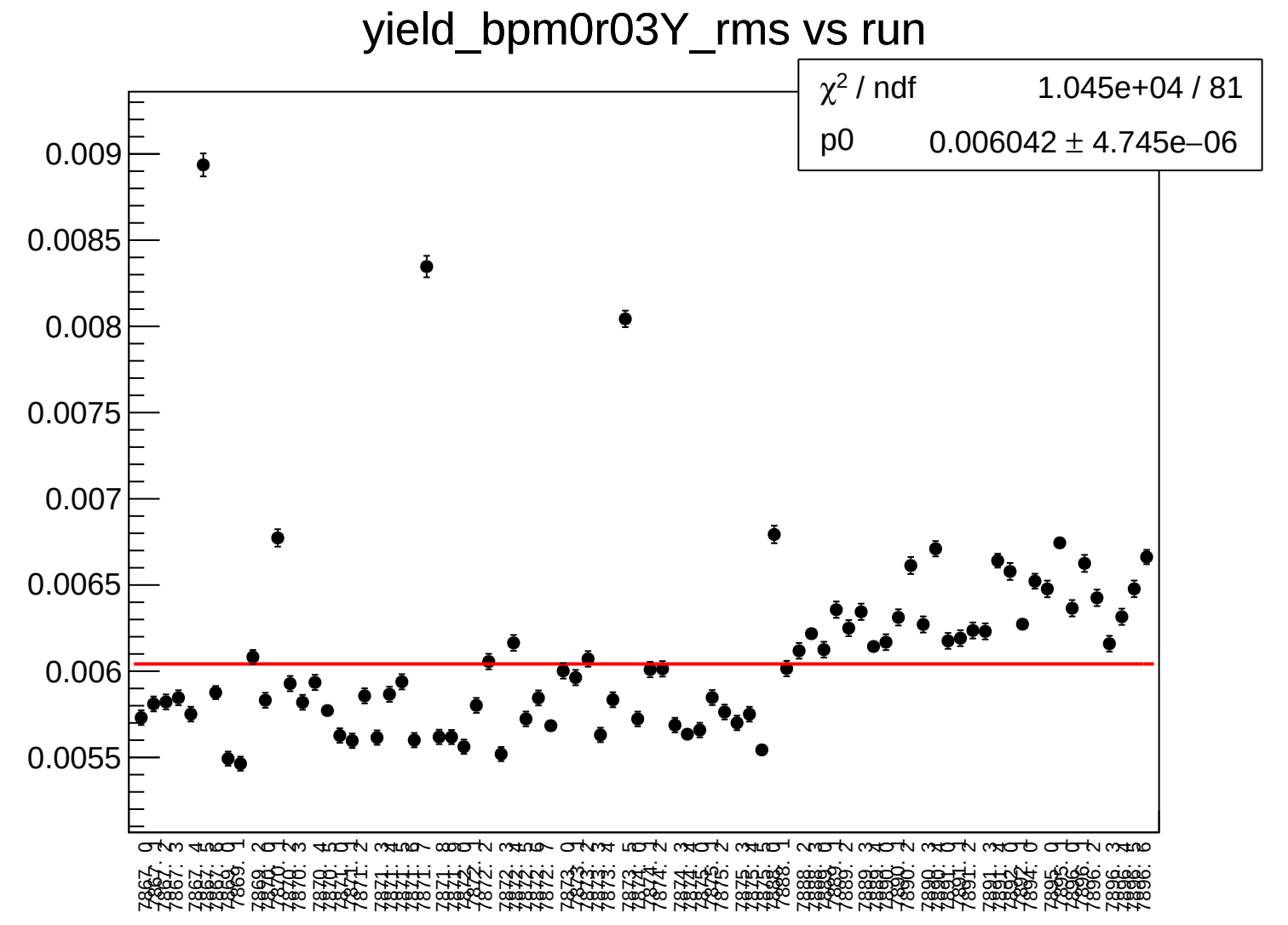

yield_bpm0l10Y_rms vs run
χ² / ndf 3.31e+04 / 81
p0 0.003502 ± 2.769e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

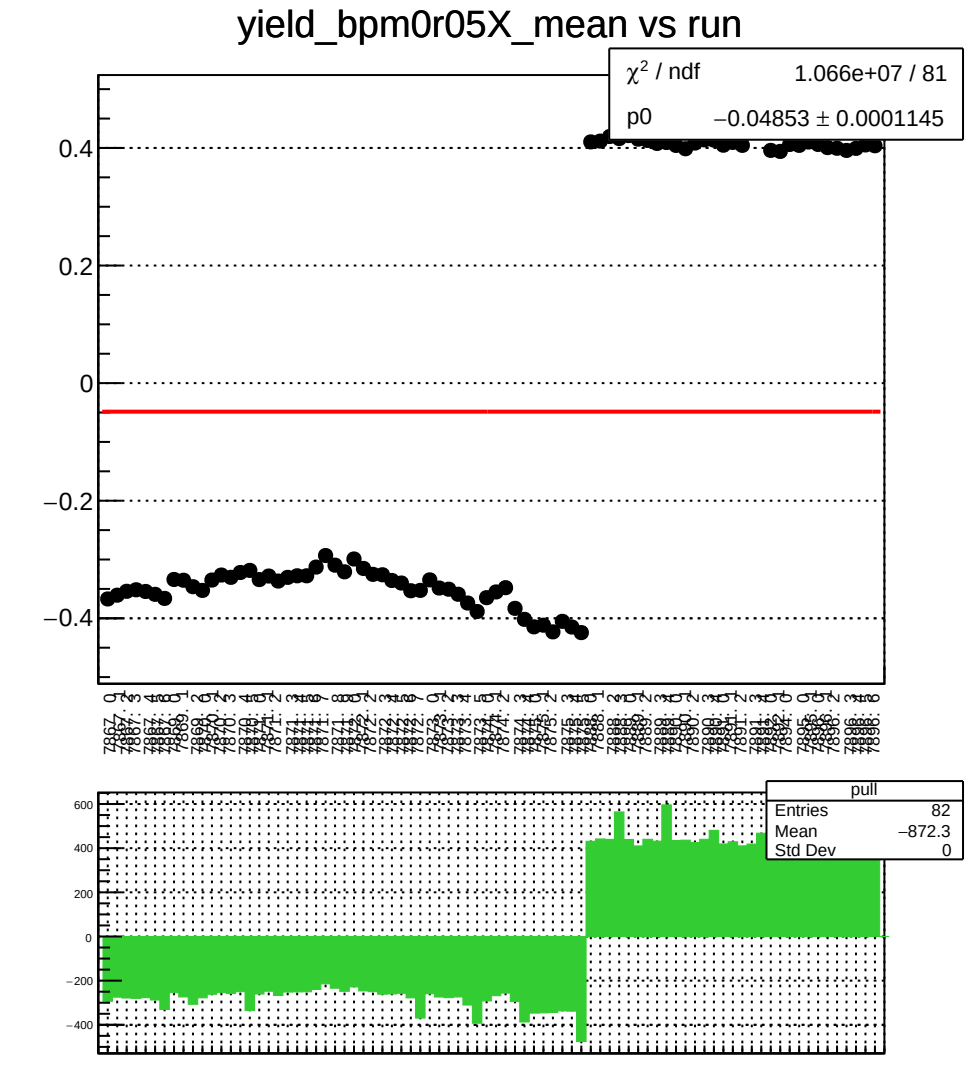

yield_bpm0r03X_mean vs run
χ² / ndf 2.982e+08 / 81
p0 −1.93 ± 9.136e−05
pull
Entries 82
Mean −408.2
Std Dev 0
pull1D
Entries 82
Mean 0
Std Dev 0

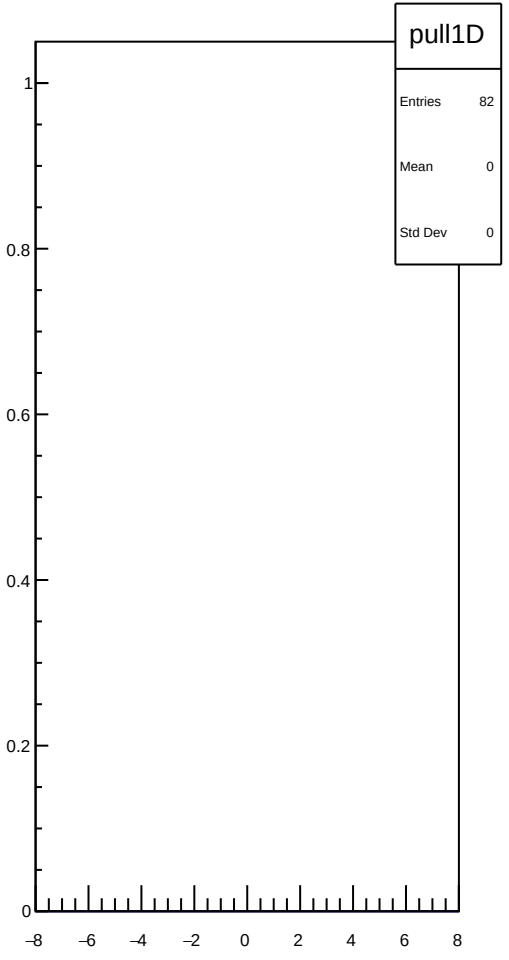

yield_bpm0r03X_rms vs run
χ² / ndf 3364 / 81
p0 0.08244 ± 6.46e−05
0.095
0.09
0.085
0.08
0.075

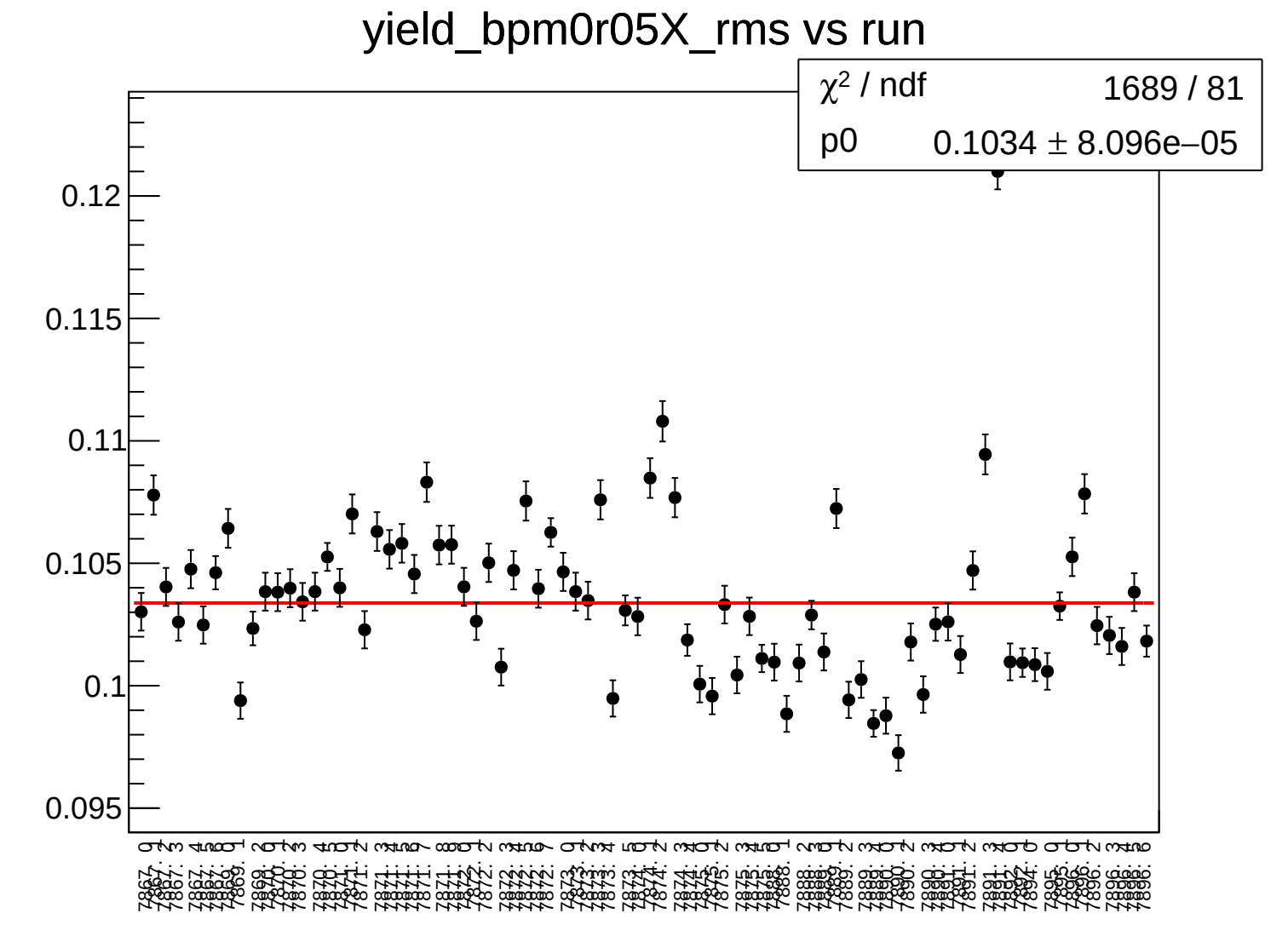

yield_bpm0r03Y_mean vs run
χ² / ndf 4.897e+08 / 81
p0 −0.5326 ± 6.71e−06
pull
Entries 82
Mean 852.2
Std Dev 0

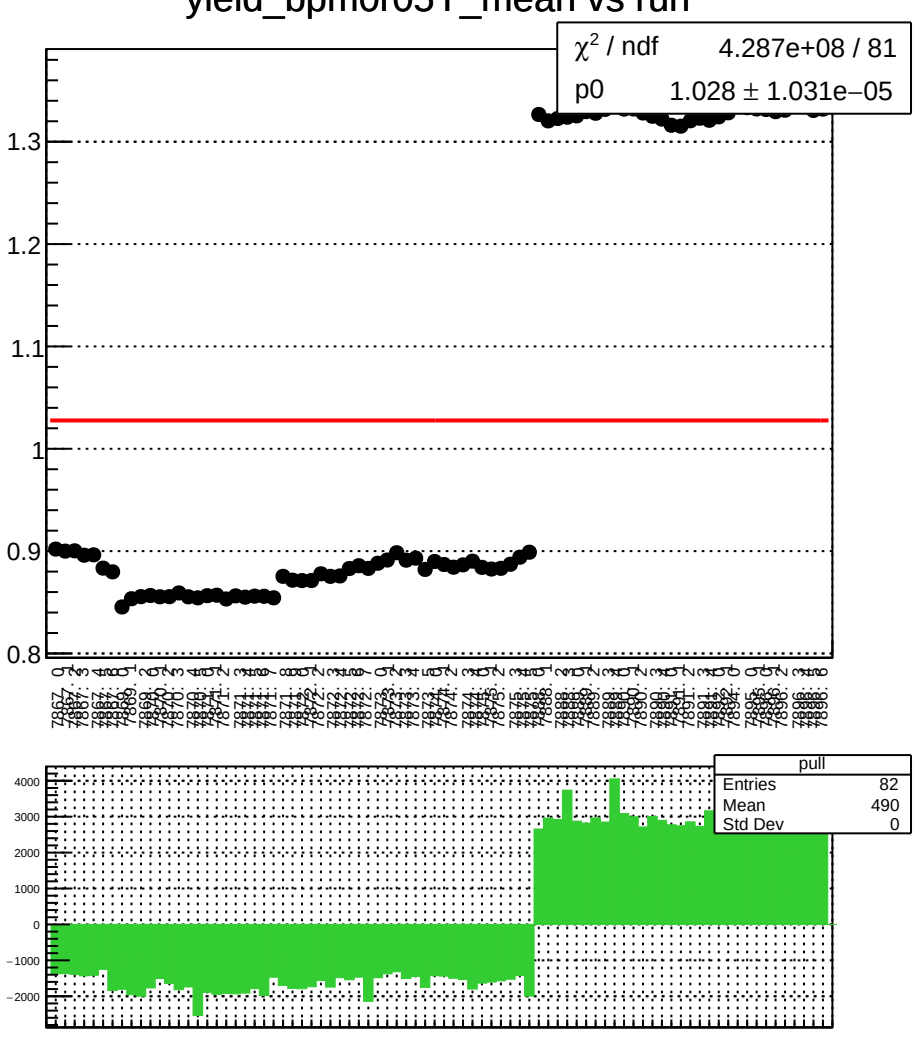

pull1D
Entries 82
Mean 0
Std Dev 0

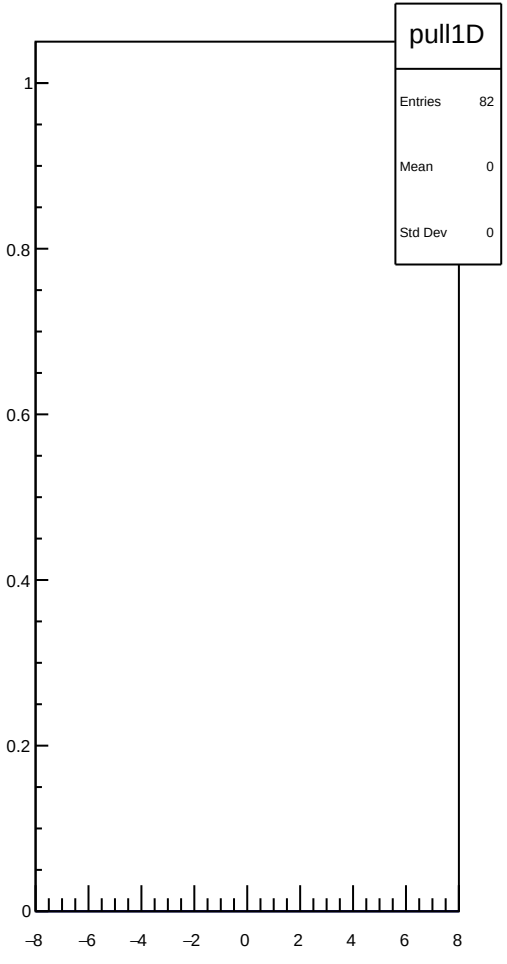

yield_bpm0r03Y_rms vs run
χ² / ndf 1.045e+04 / 81
p0 0.006042 ± 4.745e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

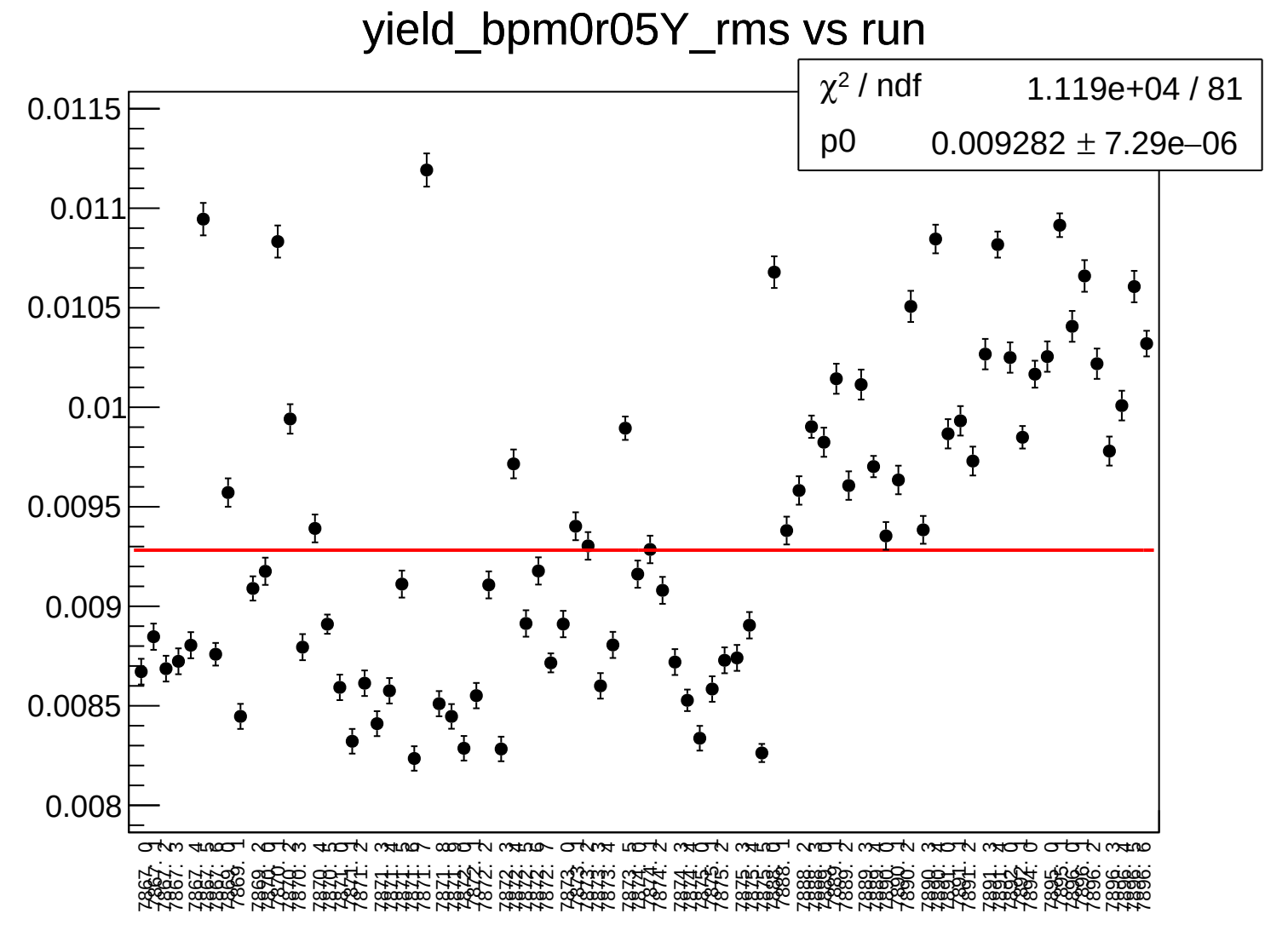

yield_bpm0r05X_mean vs run
χ² / ndf 1.066e+07 / 81
p0 −0.04853 ± 0.0001145
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean −872.3
Std Dev 0
600
400
200
0
−200
−400

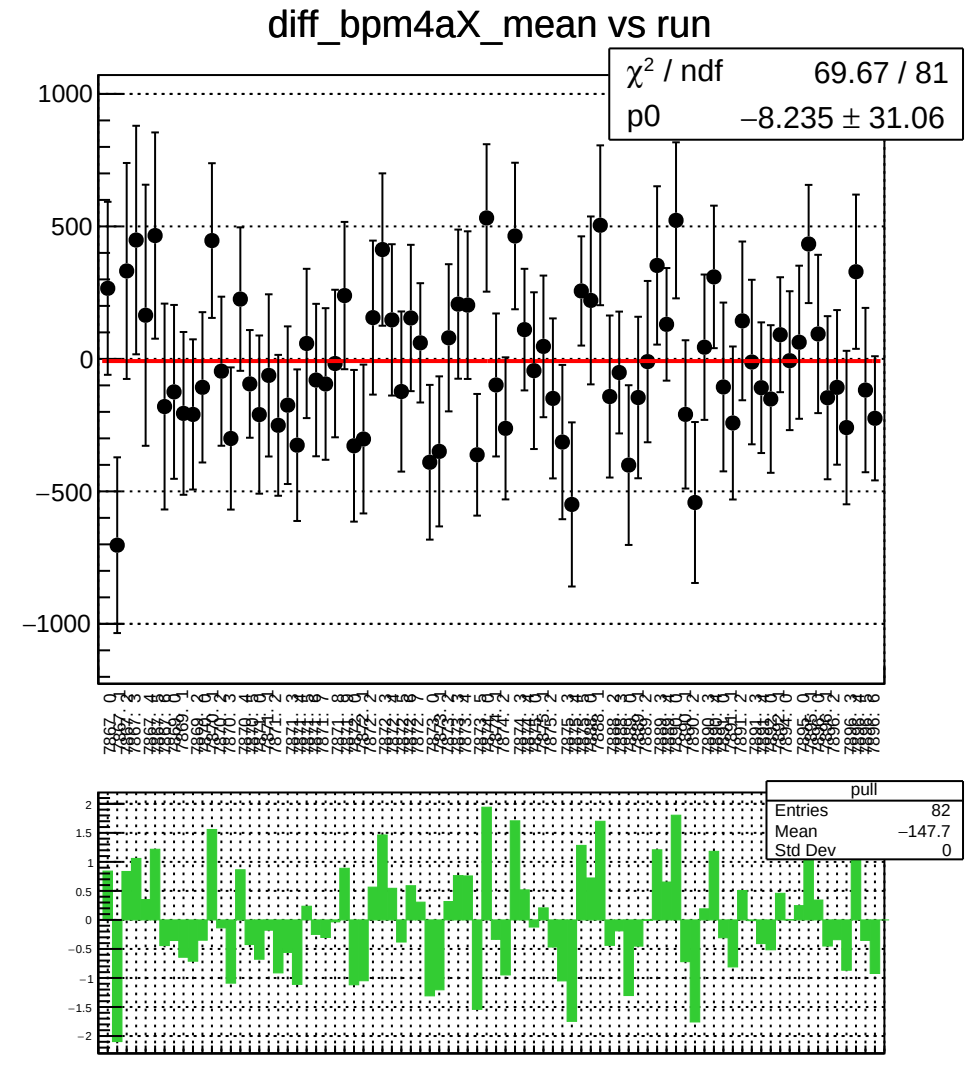

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

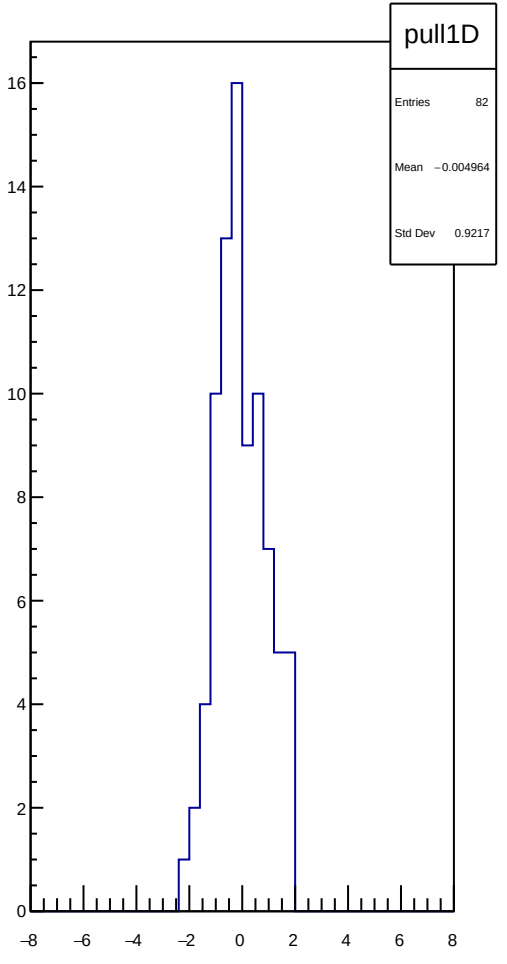

yield_bpm0r05X_rms vs run
χ² / ndf 1689 / 81
p0 0.1034 ± 8.096e−05
0.12
0.115
0.11
0.105
0.1
0.095

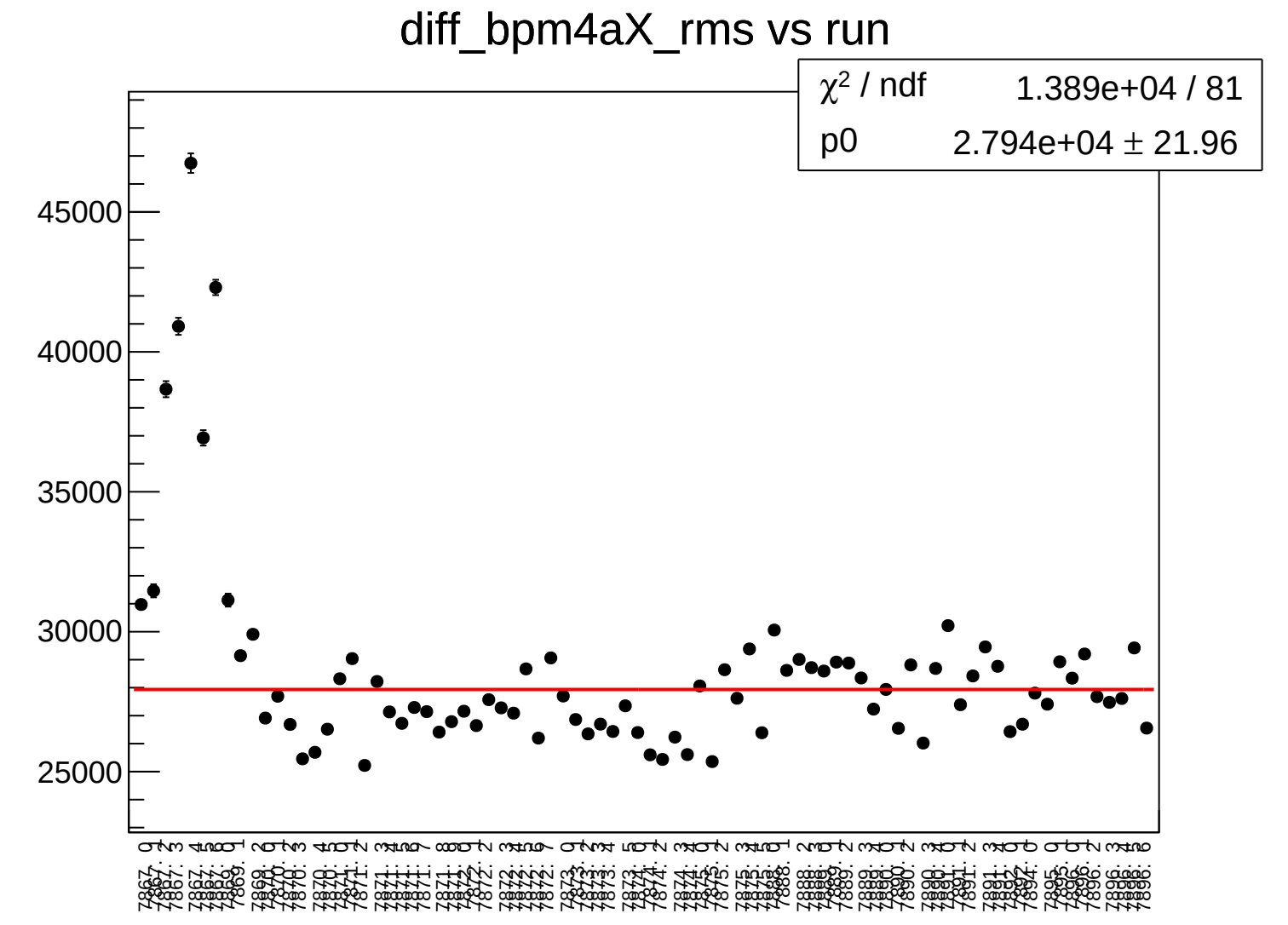

yield_bpm0r05Y_mean vs run
χ² / ndf 4.287e+08 / 81
p0 1.028 ± 1.031e−05
pull
Entries 82
Mean 490
Std Dev 0

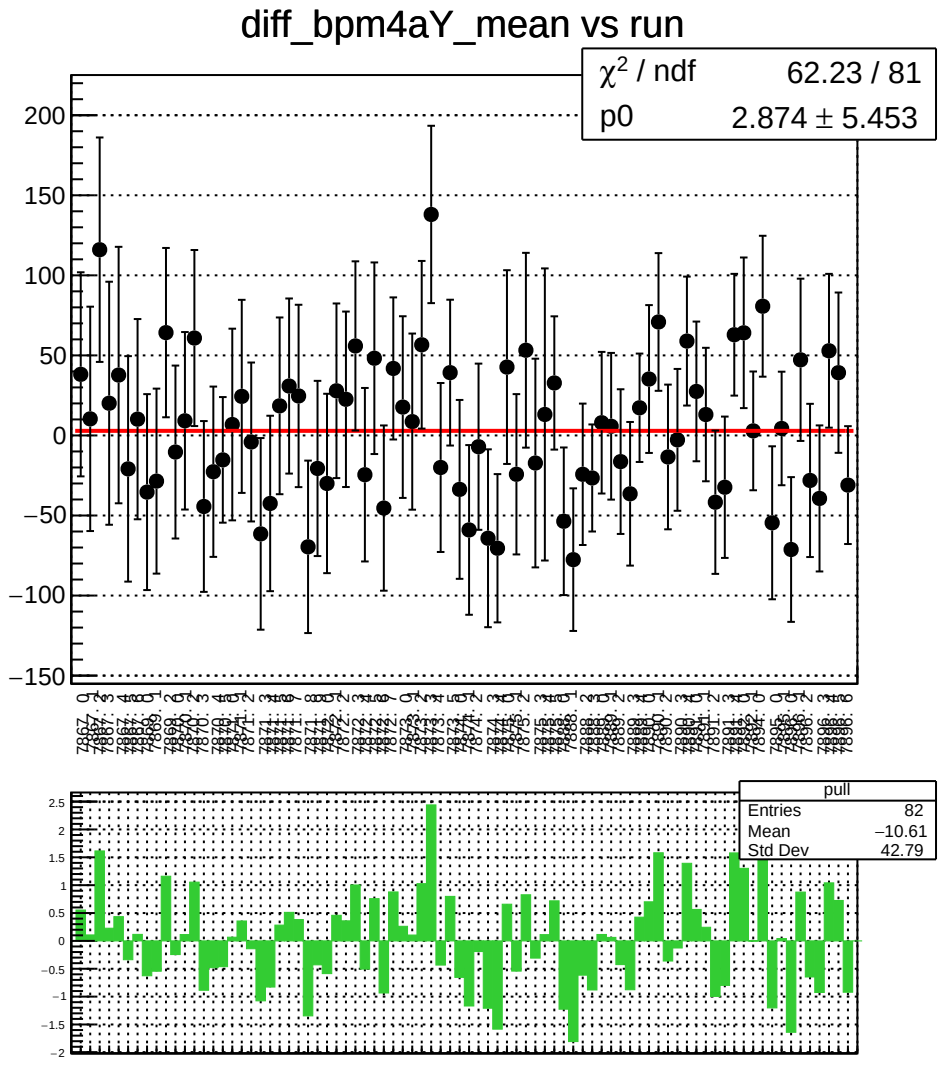

pull1D
Entries 82
Mean 0
Std Dev 0

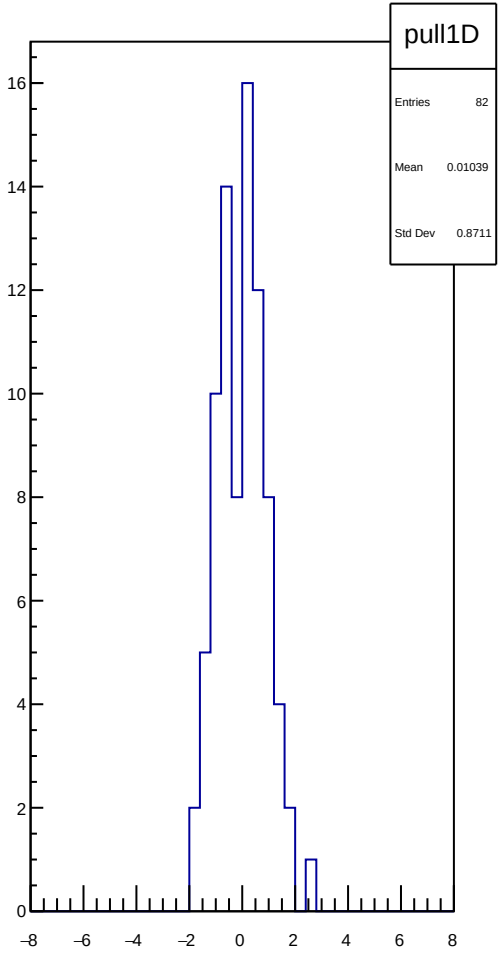

yield_bpm0r05Y_rms vs run
χ² / ndf 1.119e+04 / 81
p0 0.009282 ± 7.29e–06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

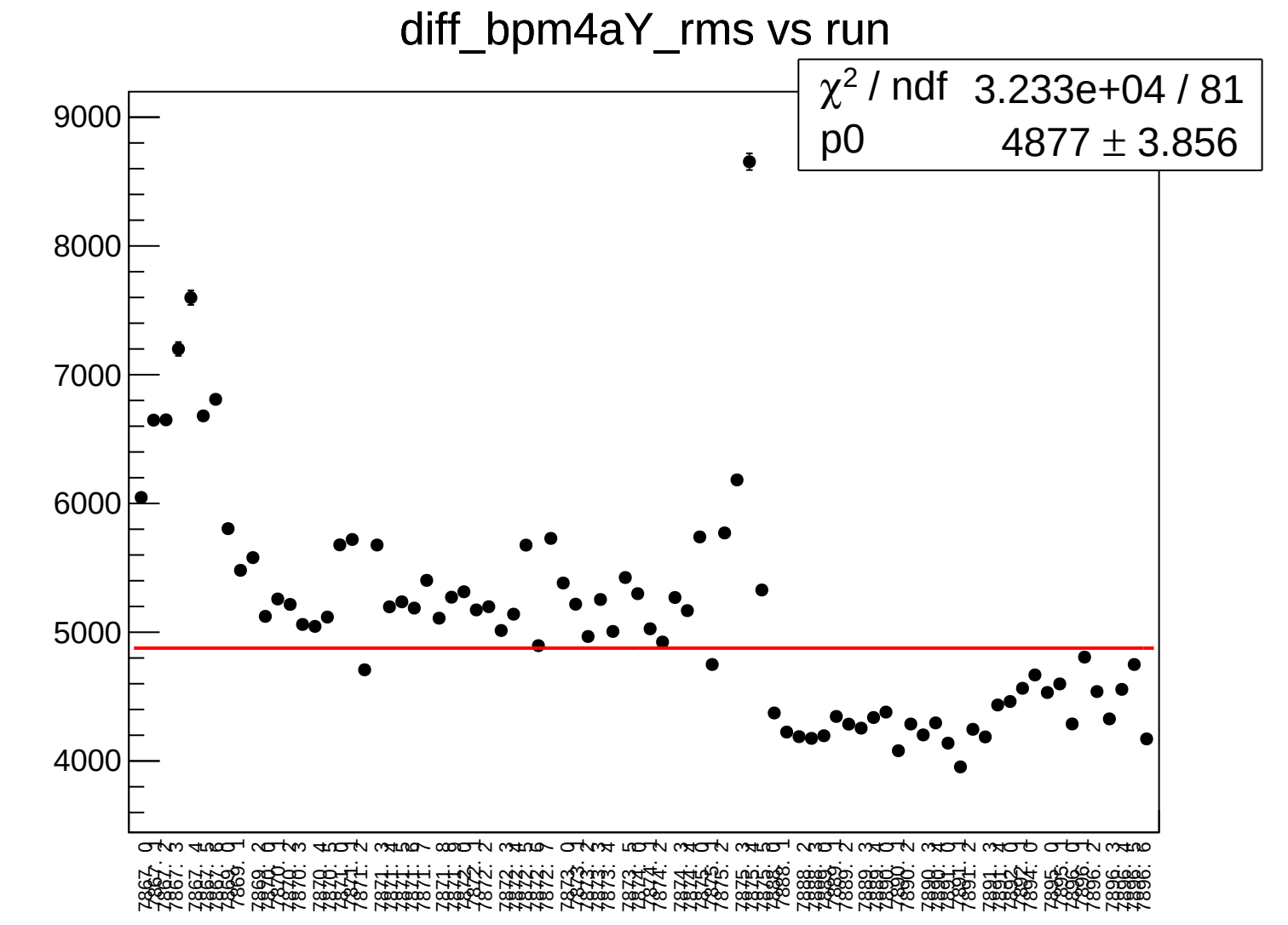

diff_bpm4aX_mean vs run
χ² / ndf 69.67 / 81
p0 −8.235 ± 31.06
1000
500
0
−500
−1000
pull
Entries 82
Mean −147.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

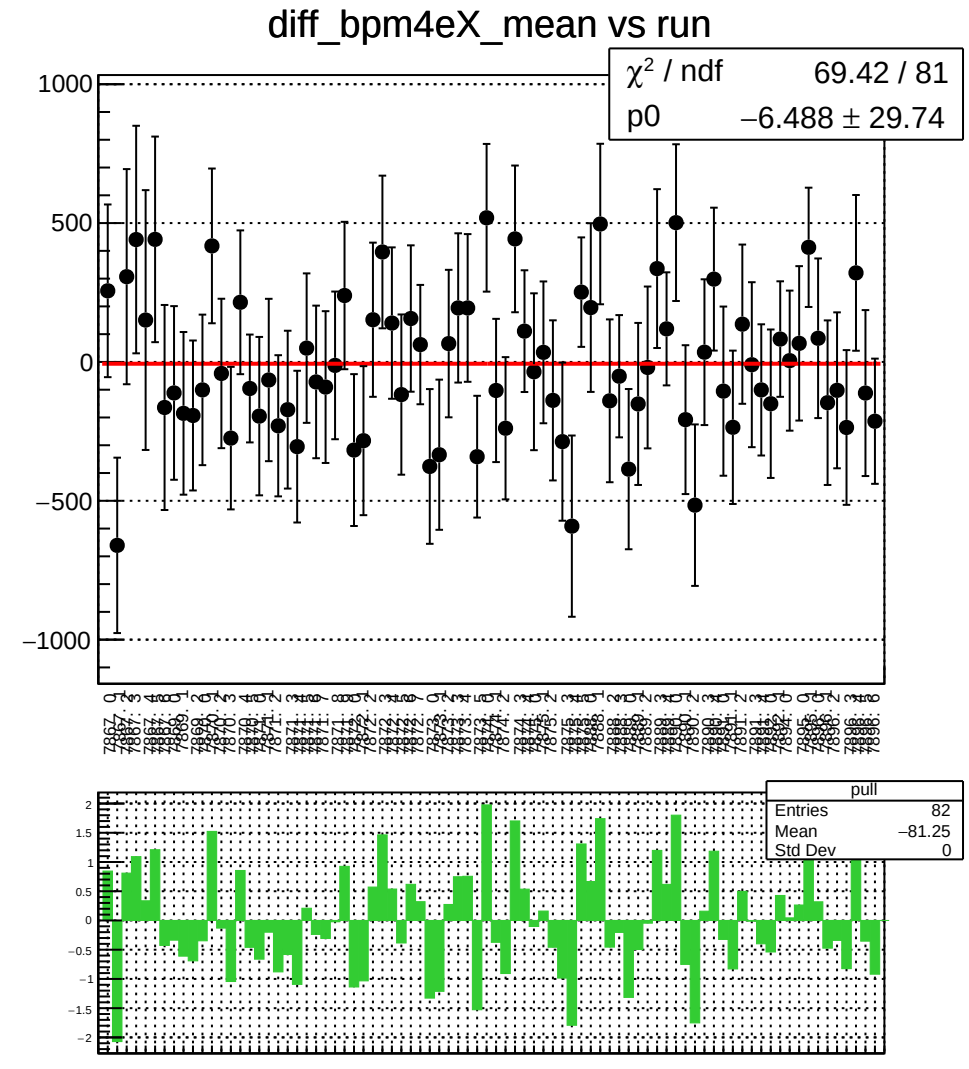

pull1D
Entries 82
Mean −0.004964
Std Dev 0.9217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

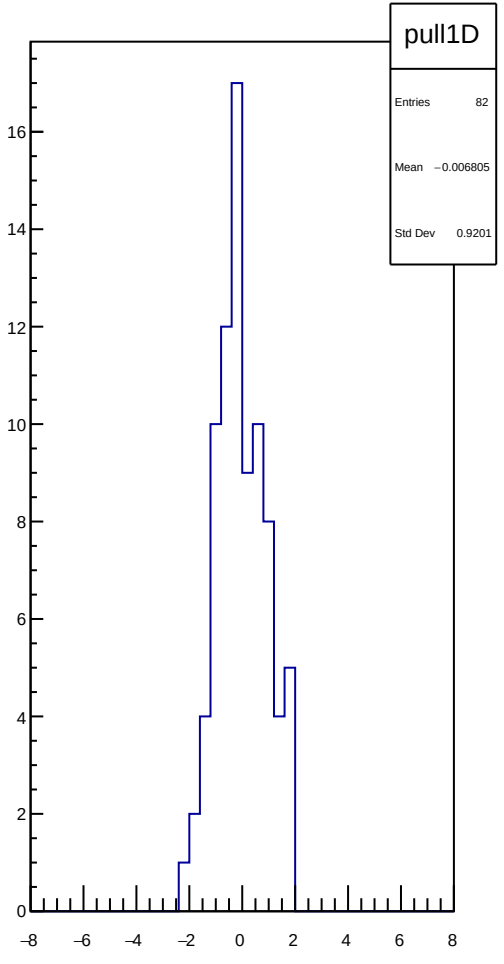

diff_bpm4aX_rms vs run
χ² / ndf 1.389e+04 / 81
p0 2.794e+04 ± 21.96
45000
40000
35000
30000
25000

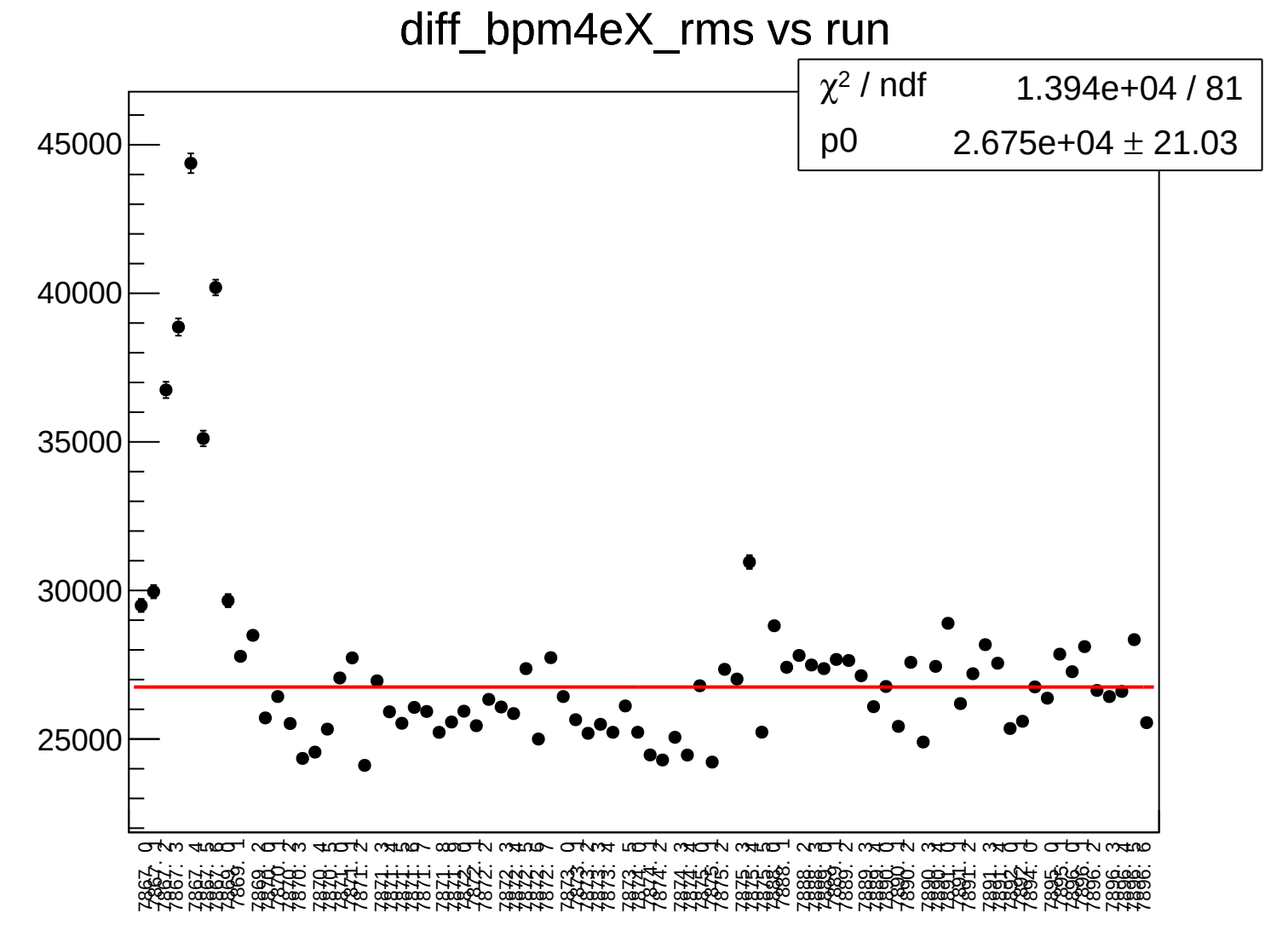

diff_bpm4aY_mean vs run
χ² / ndf 62.23 / 81
p0 2.874 ± 5.453
pull
Entries 82
Mean −10.61
Std Dev 42.79

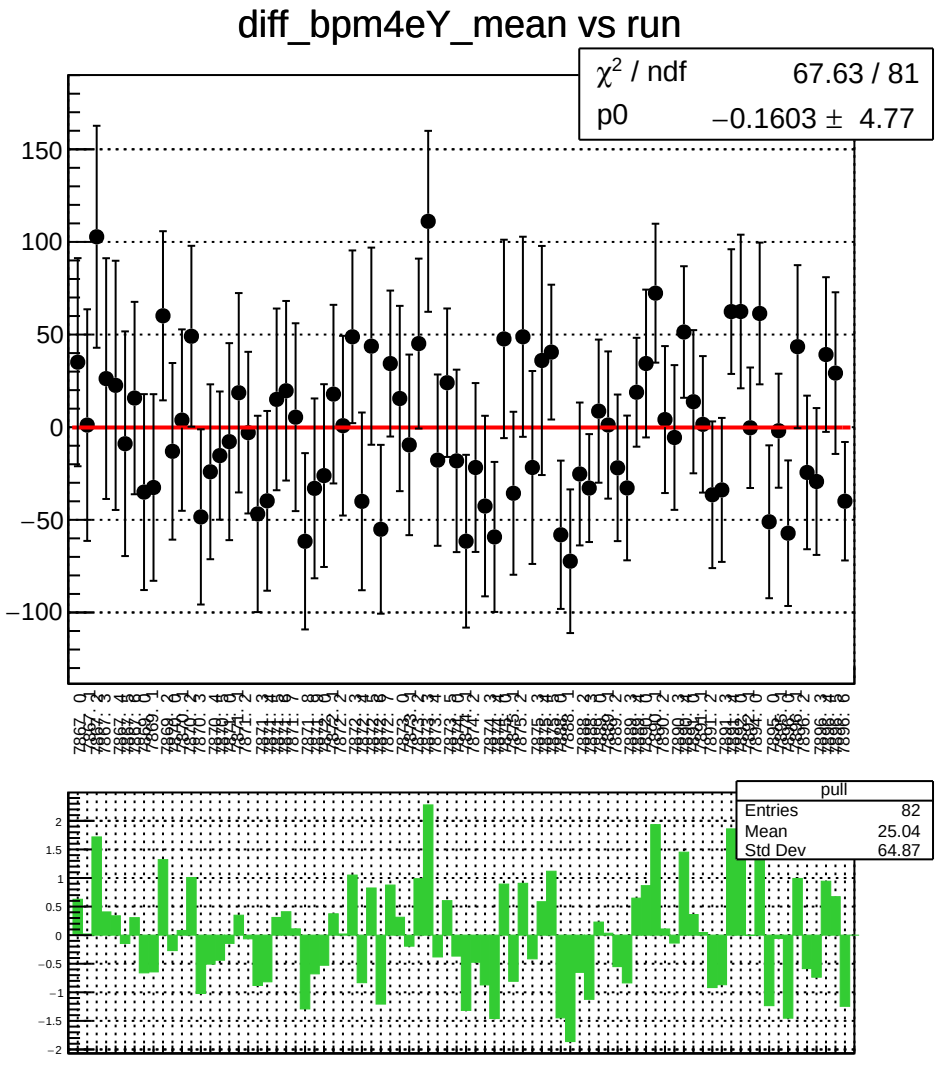

pull1D
Entries 82
Mean 0.01039
Std Dev 0.8711

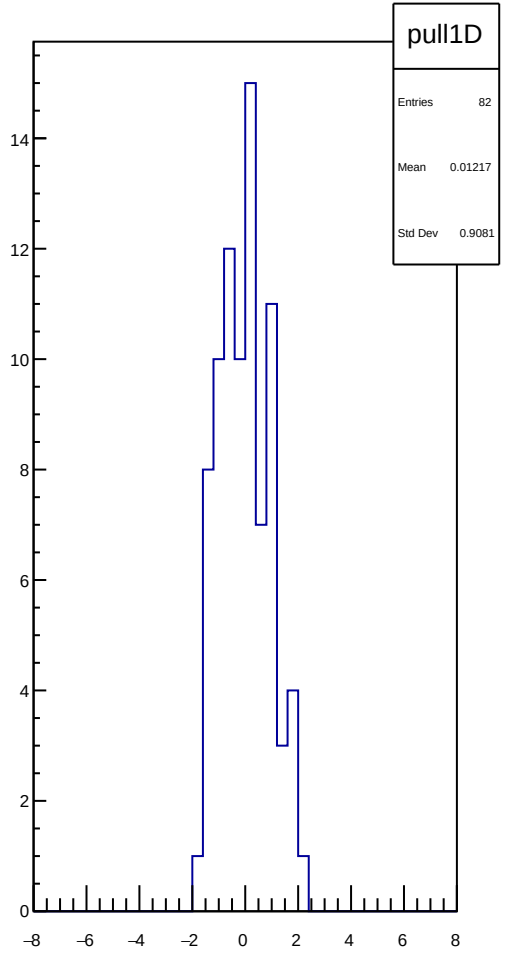

diff_bpm4aY_rms vs run
χ² / ndf 3.233e+04 / 81
p0 4877 ± 3.856
9000
8000
7000
6000
5000
4000

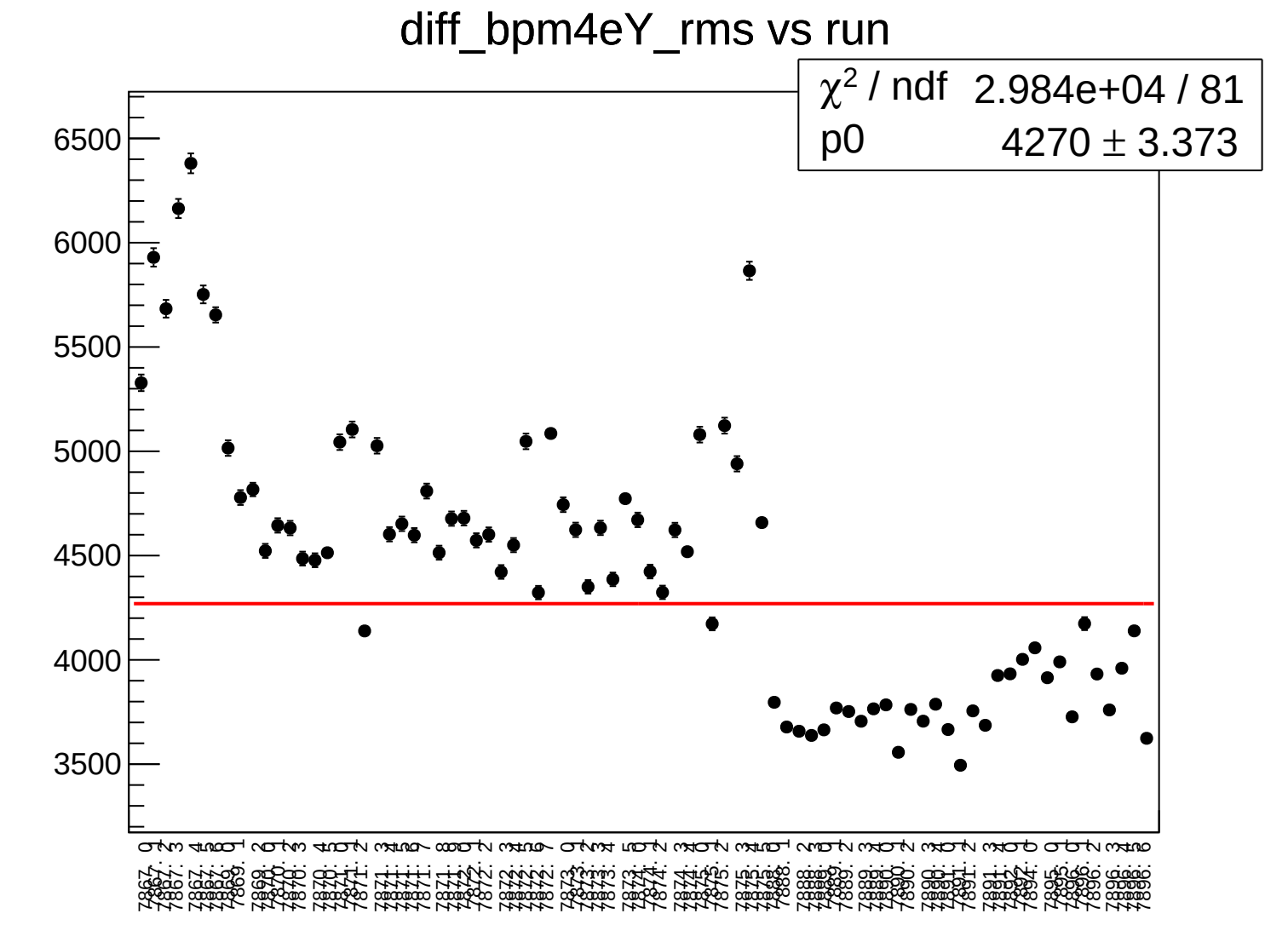

diff_bpm4eX_mean vs run
χ² / ndf 69.42 / 81
p0 −6.488 ± 29.74
1000
500
0
−500
−1000
pull
Entries 82
Mean −81.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

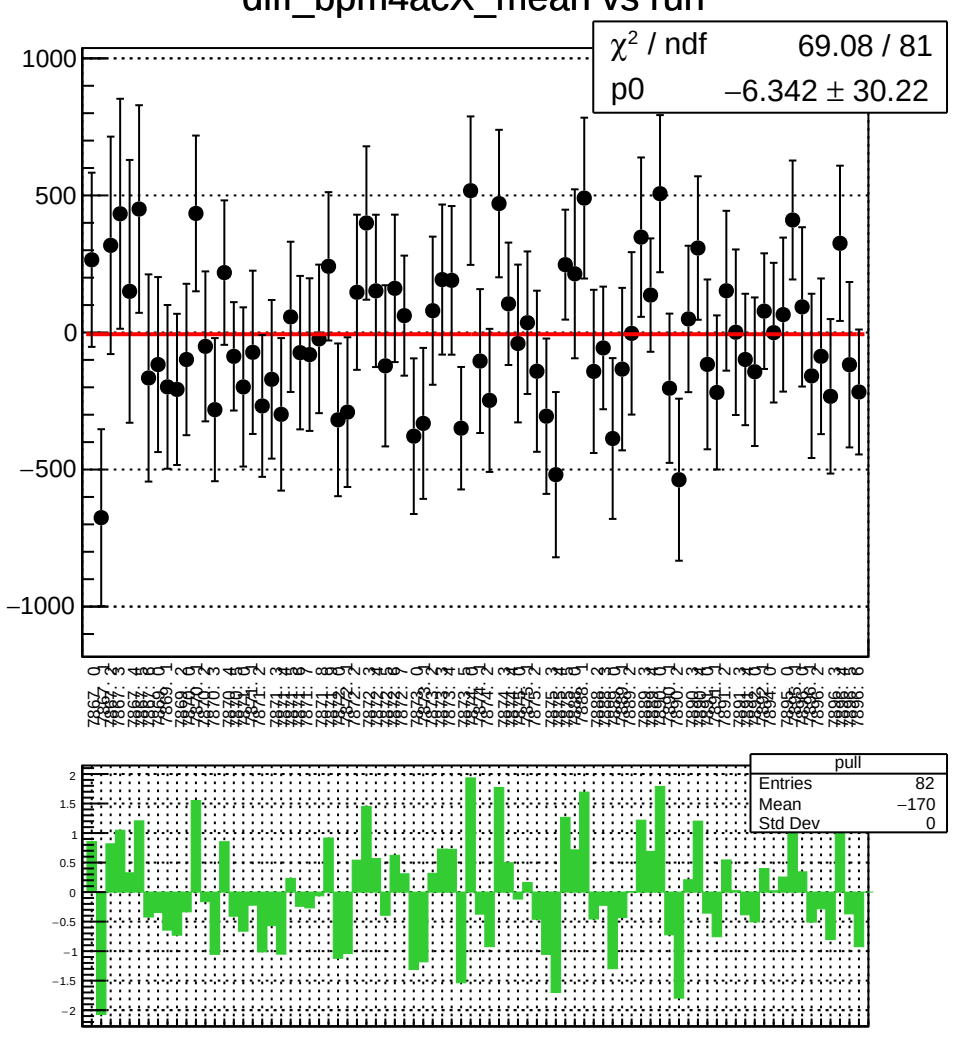

pull1D
Entries 82
Mean −0.006805
Std Dev 0.9201
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

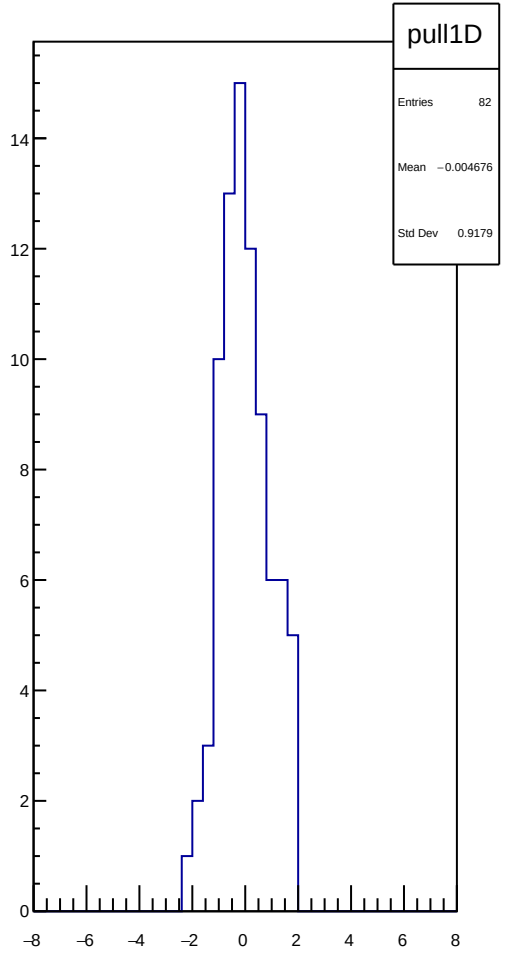

diff_bpm4eX_rms vs run
χ² / ndf 1.394e+04 / 81
p0 2.675e+04 ± 21.03
45000
40000
35000
30000
25000

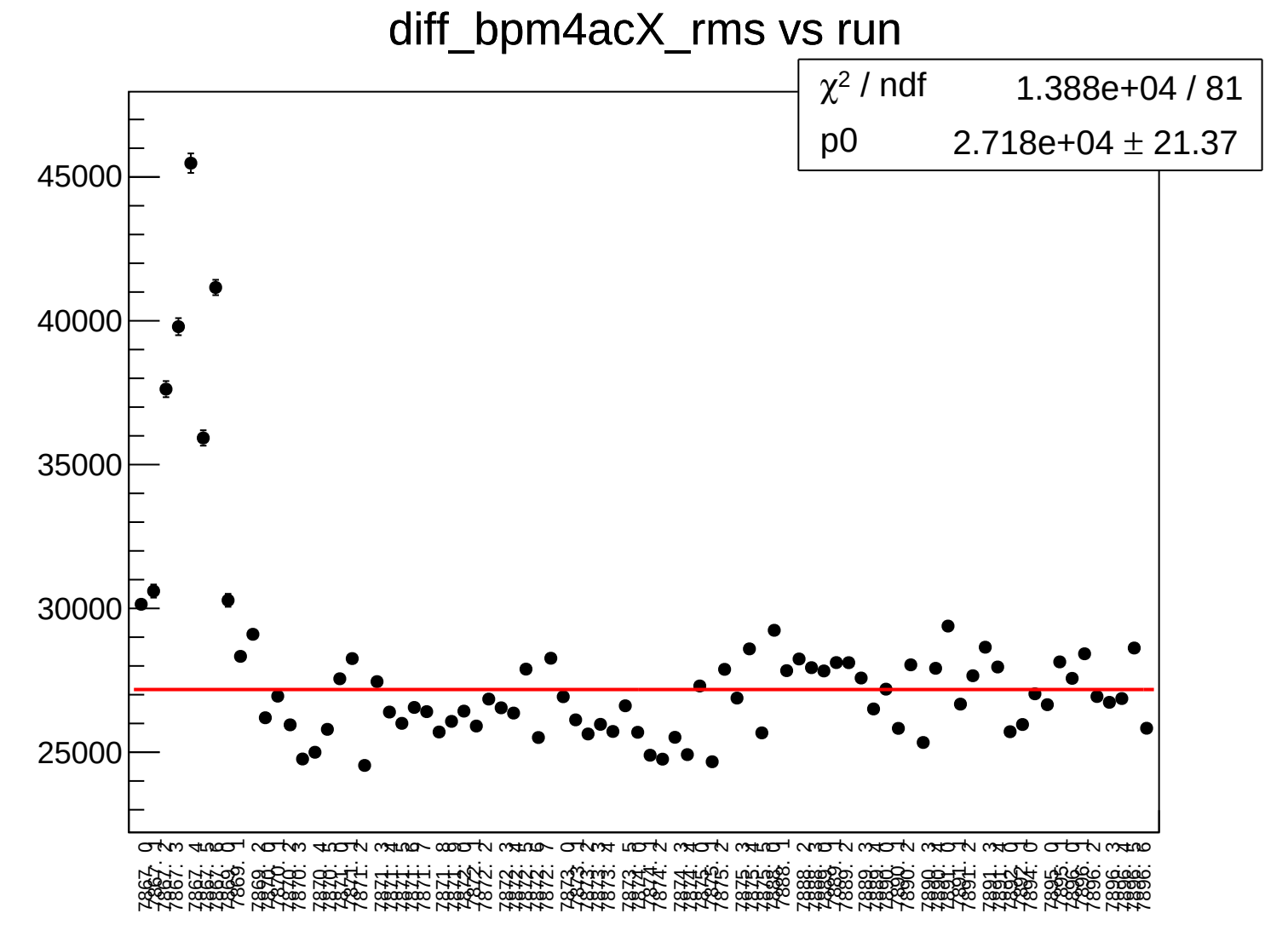

diff_bpm4eY_mean vs run
χ² / ndf 67.63 / 81
p0 −0.1603 ± 4.77
150
100
50
0
−50
−100
pull
Entries 82
Mean 25.04
Std Dev 64.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

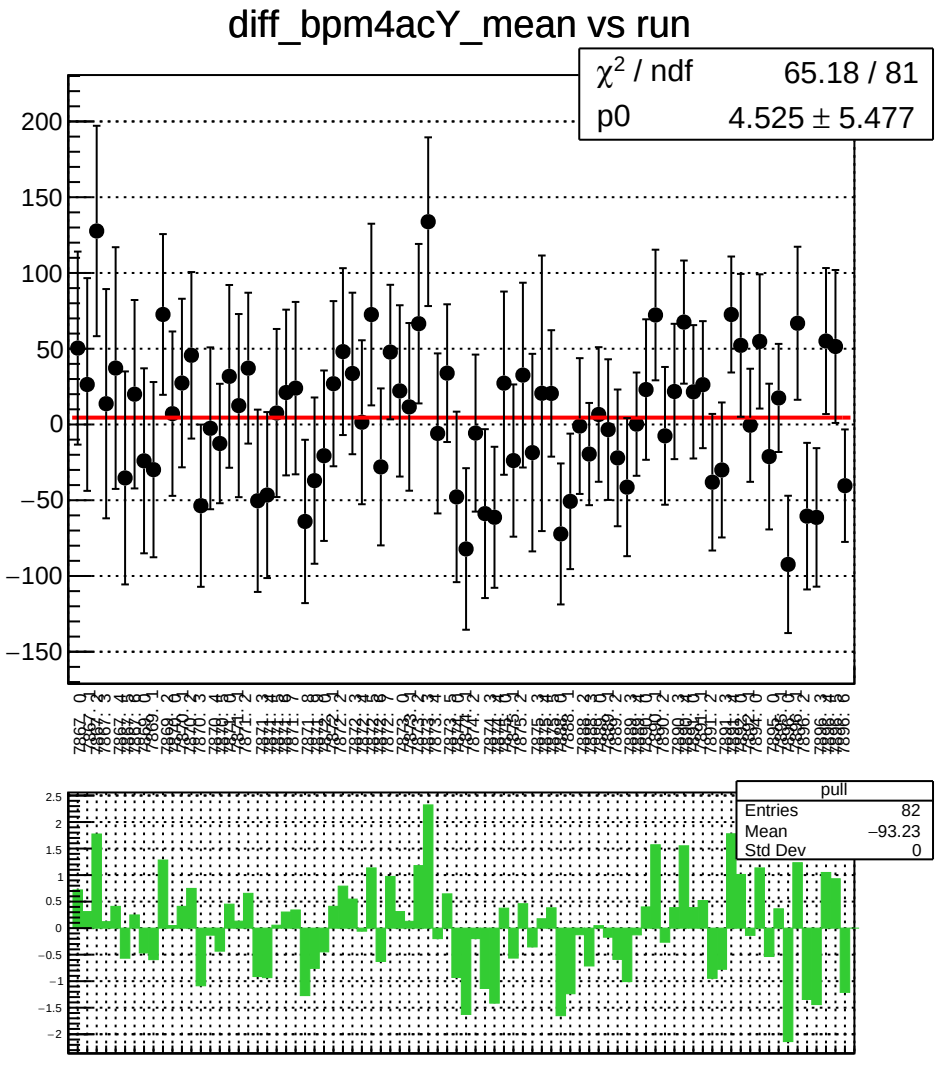

pull1D
Entries 82
Mean 0.01217
Std Dev 0.9081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

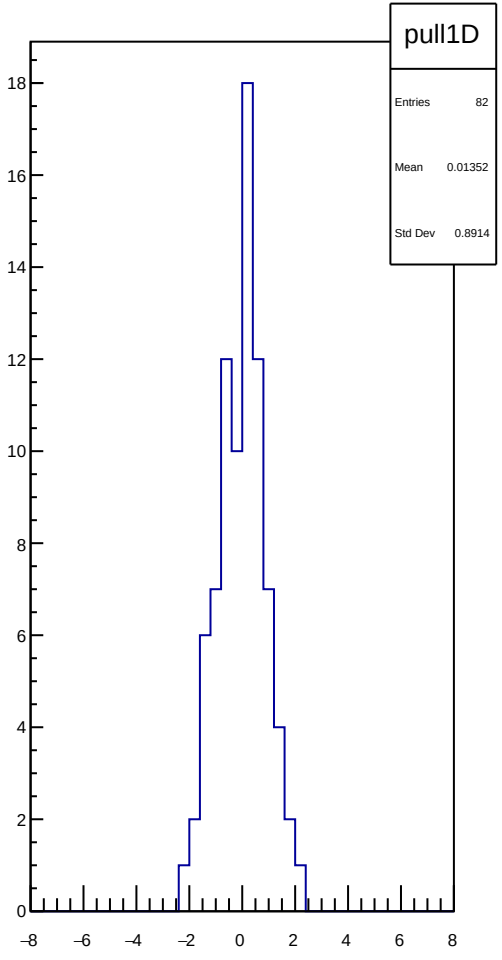

diff_bpm4eY_rms vs run
χ^2 / ndf 2.984e+04 / 81
p0 4270 ± 3.373
6500
6000
5500
5000
4500
4000
3500

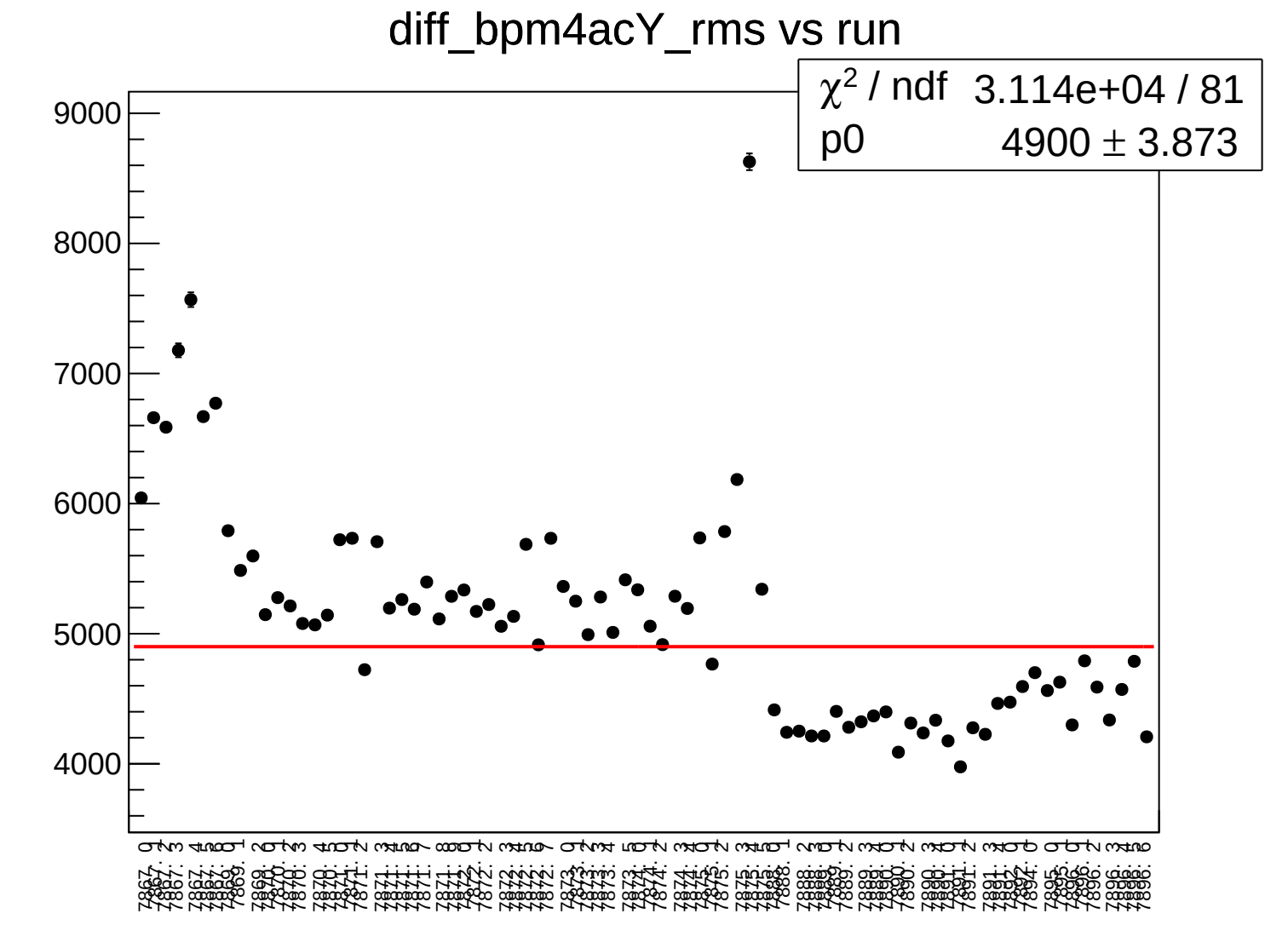

diff_bpm4acX_mean vs run
χ² / ndf 69.08 / 81
p0 −6.342 ± 30.22
1000
500
0
−500
−1000
pull
Entries 82
Mean −170
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

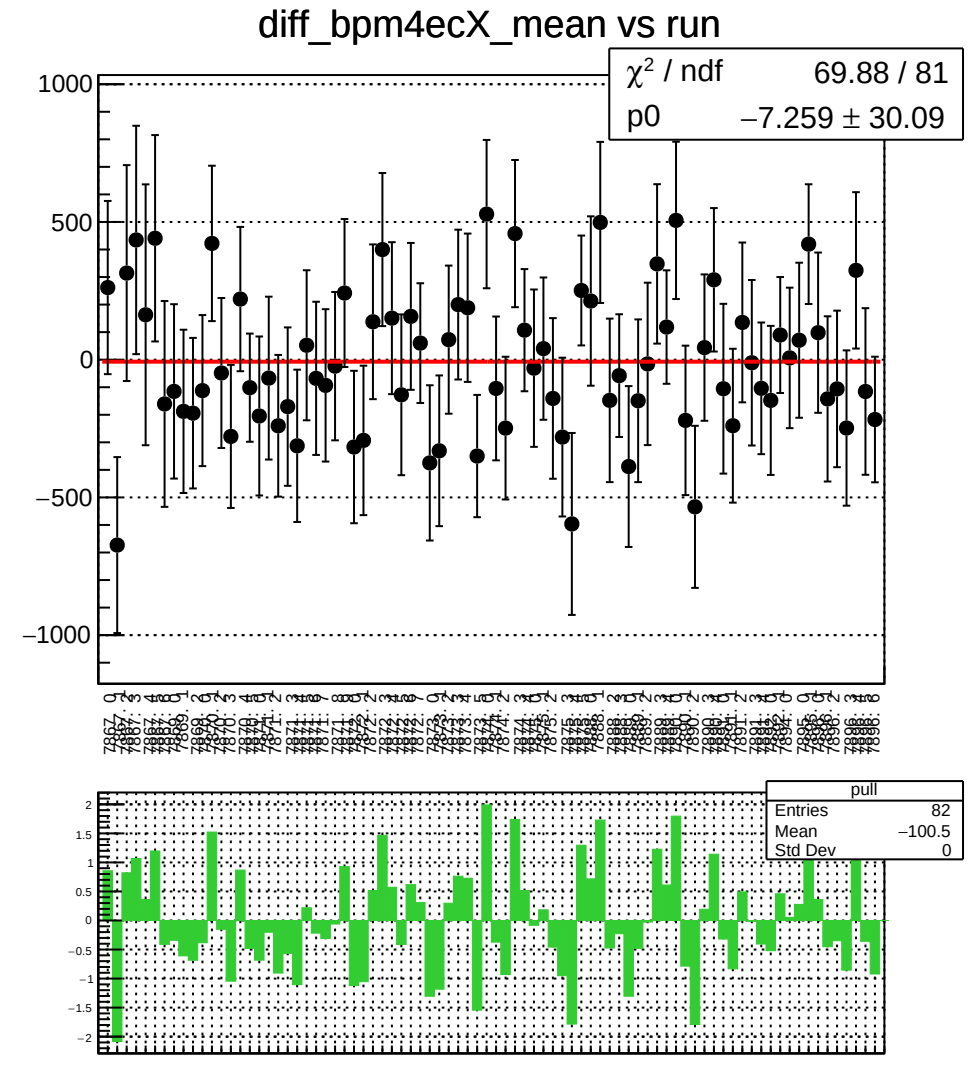

pull1D
Entries 82
Mean −0.004676
Std Dev 0.9179
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

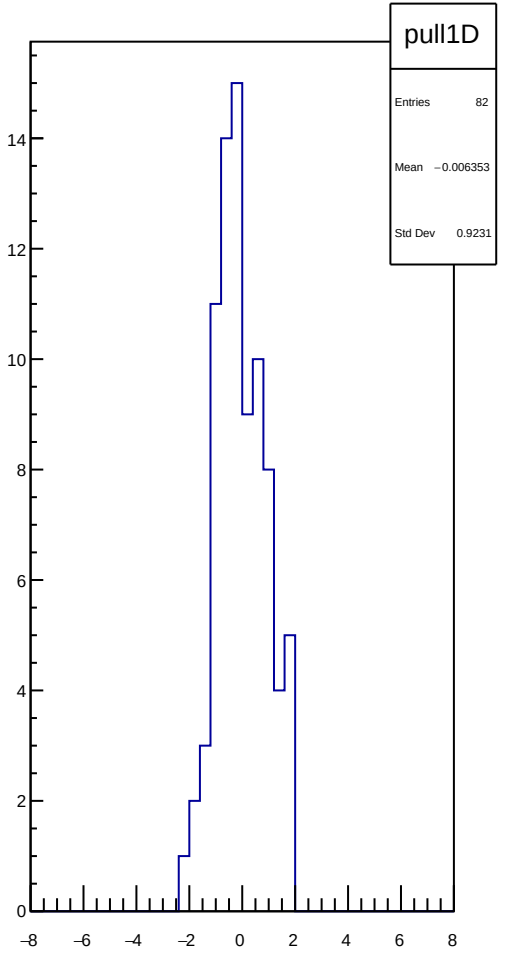

diff_bpm4acX_rms vs run
χ² / ndf 1.388e+04 / 81
p0 2.718e+04 ± 21.37
45000
40000
35000
30000
25000

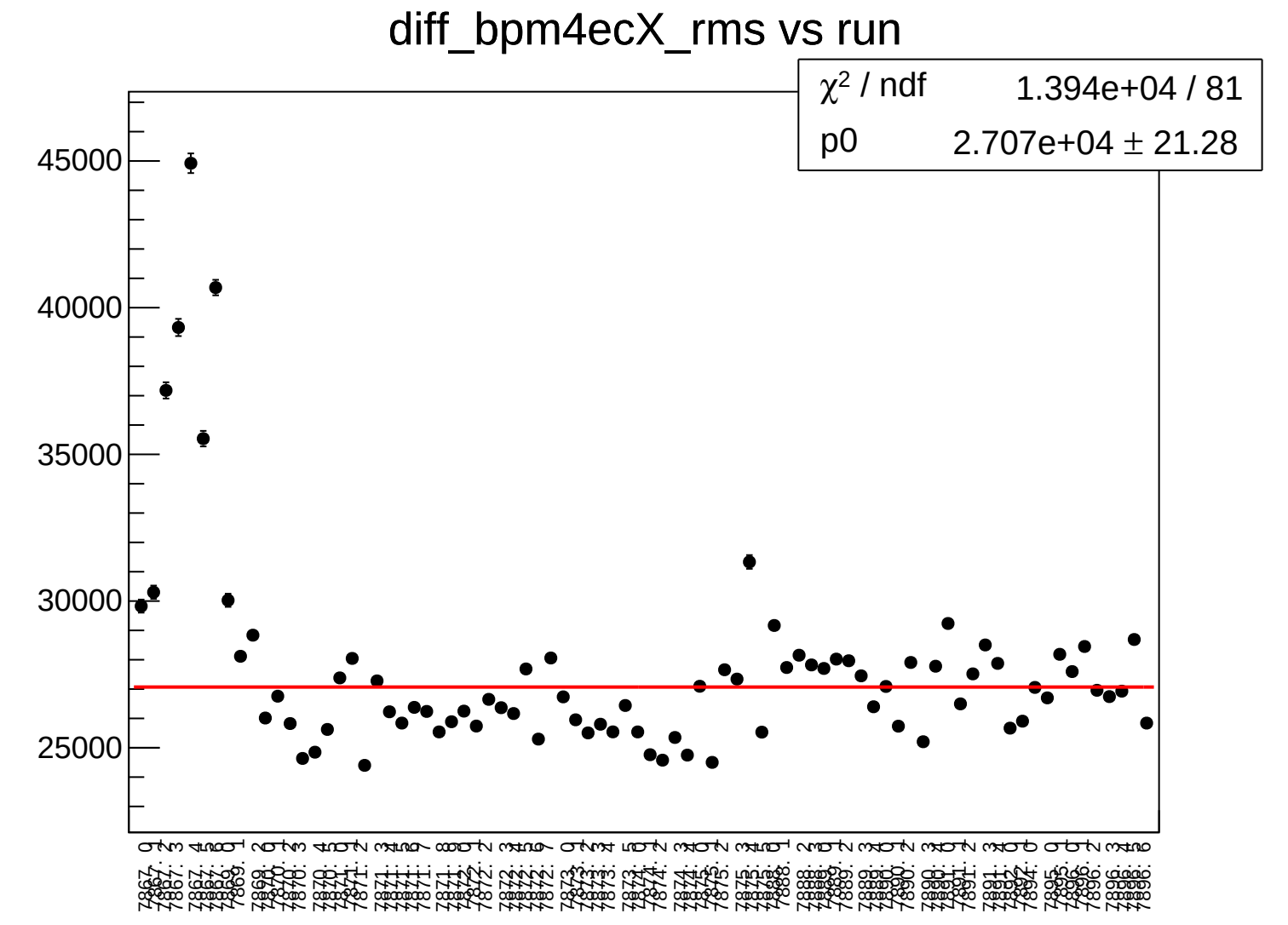

diff_bpm4acY_mean vs run
χ^2 / ndf 65.18 / 81
p0 4.525 ± 5.477
pull
Entries 82
Mean −93.23
Std Dev 0

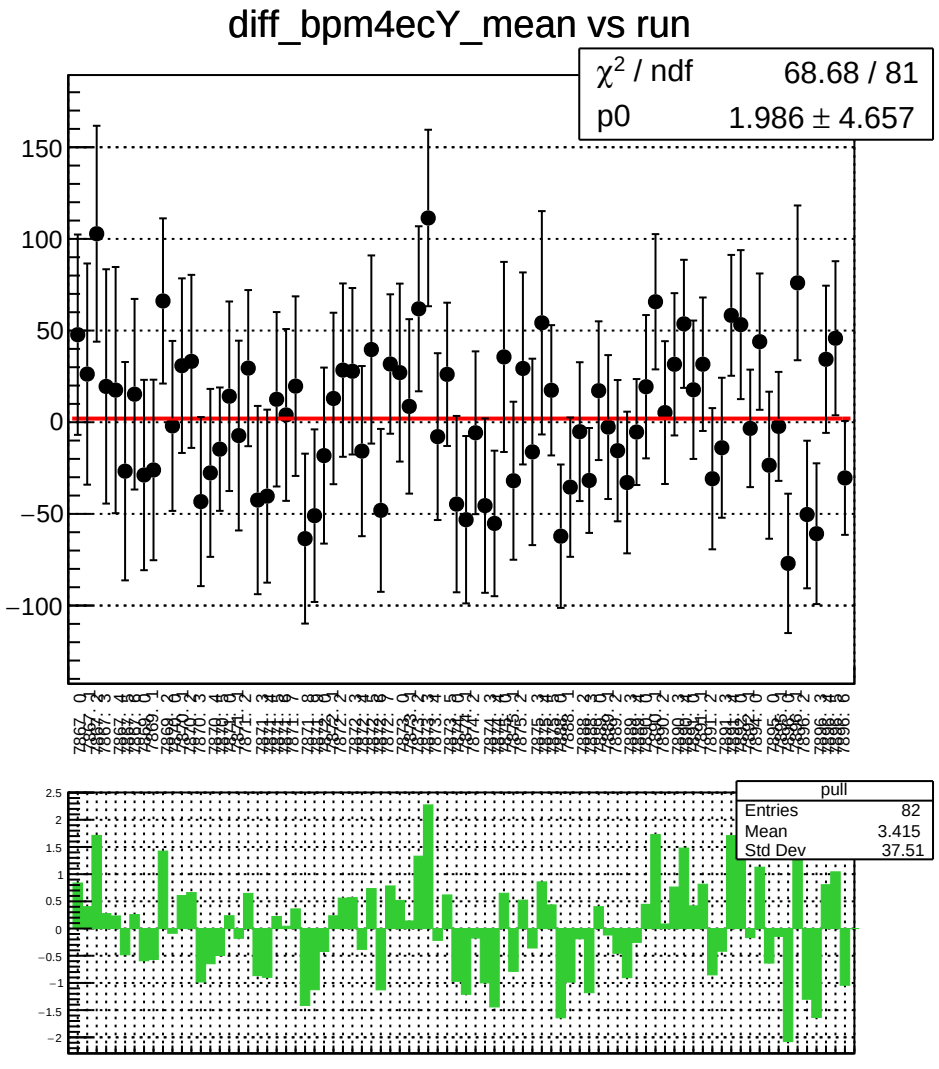

pull1D
Entries 82
Mean 0.01352
Std Dev 0.8914

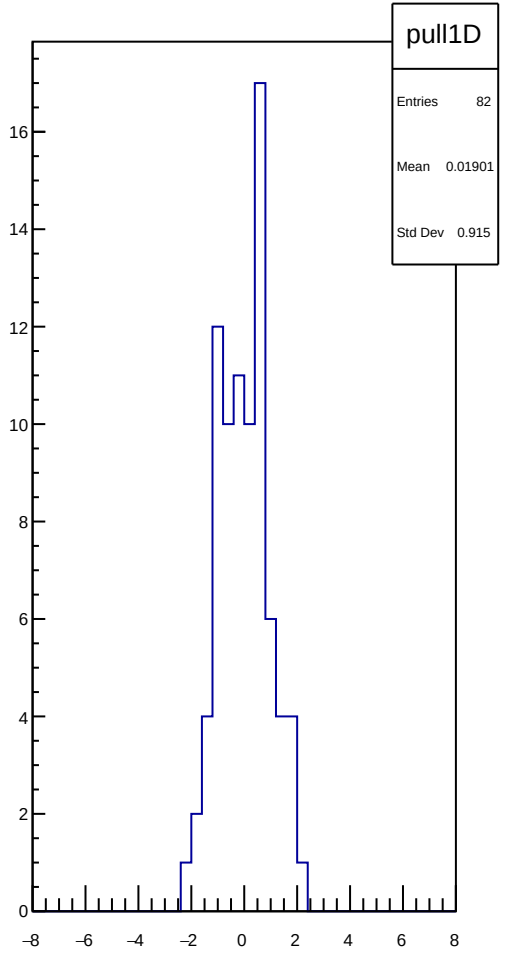

diff_bpm4acY_rms vs run
χ^2 / ndf 3.114e+04 / 81
p0 4900 ± 3.873
9000
8000
7000
6000
5000
4000

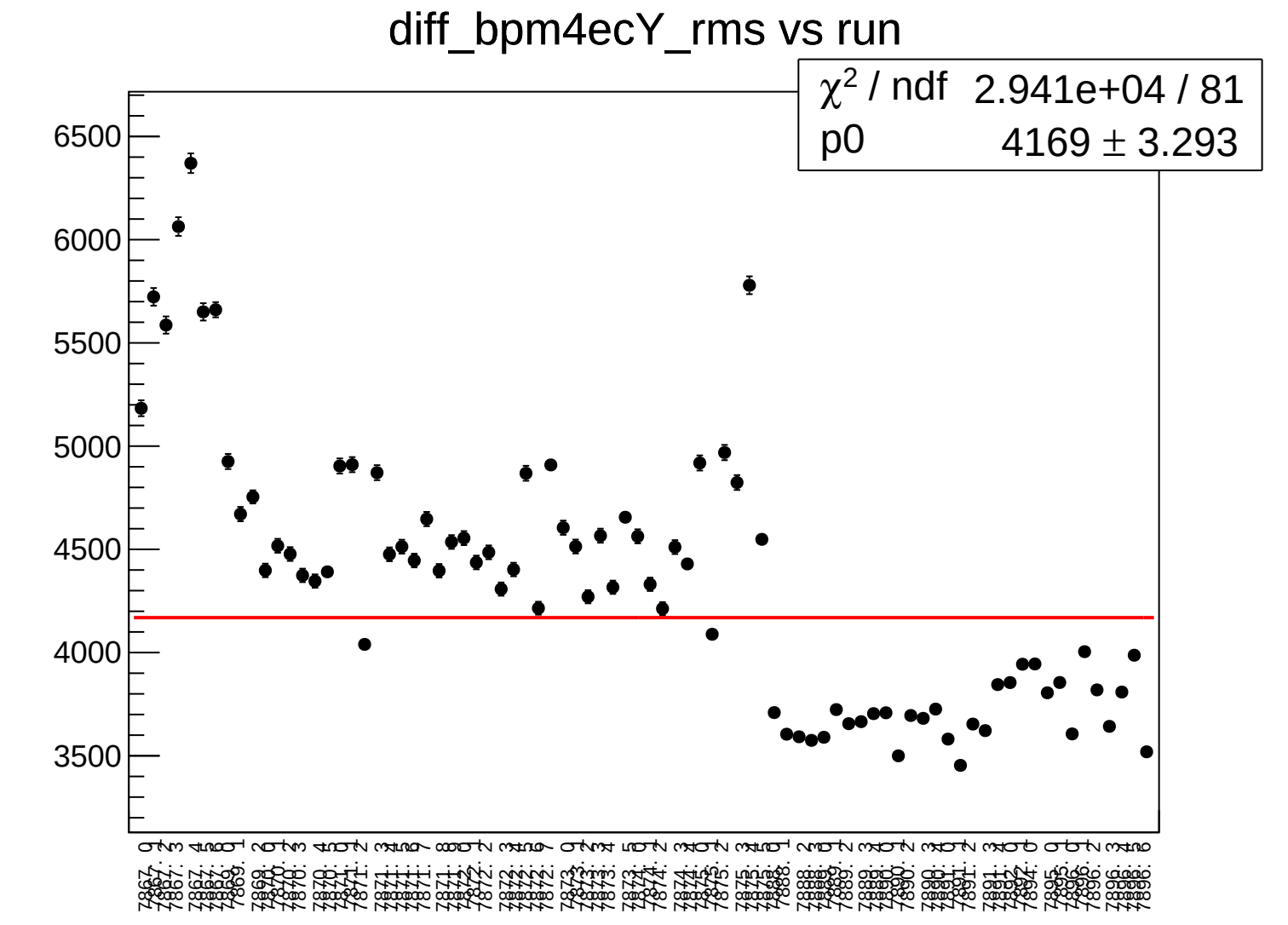

diff_bpm4ecX_mean vs run
χ² / ndf 69.88 / 81
p0 −7.259 ± 30.09
1000
500
0
−500
−1000
pull
Entries 82
Mean −100.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

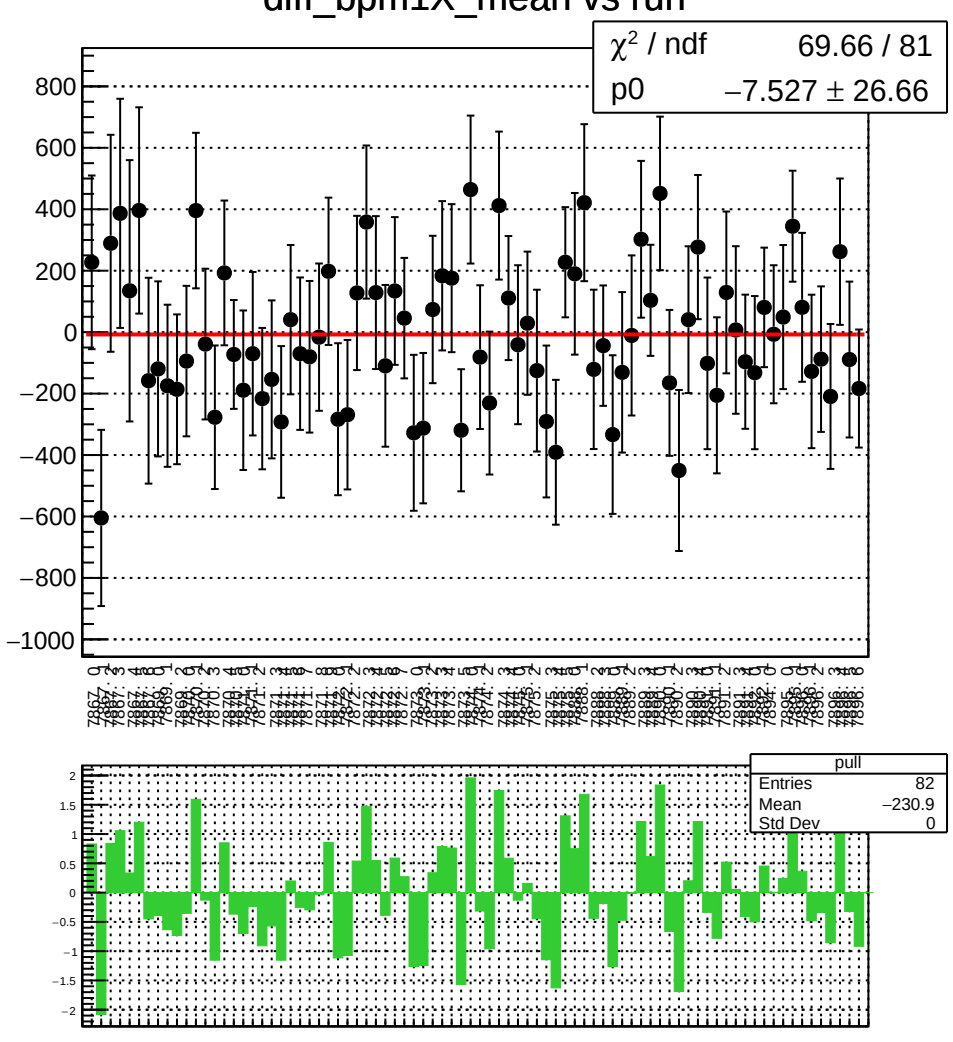

pull1D
Entries 82
Mean −0.006353
Std Dev 0.9231
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

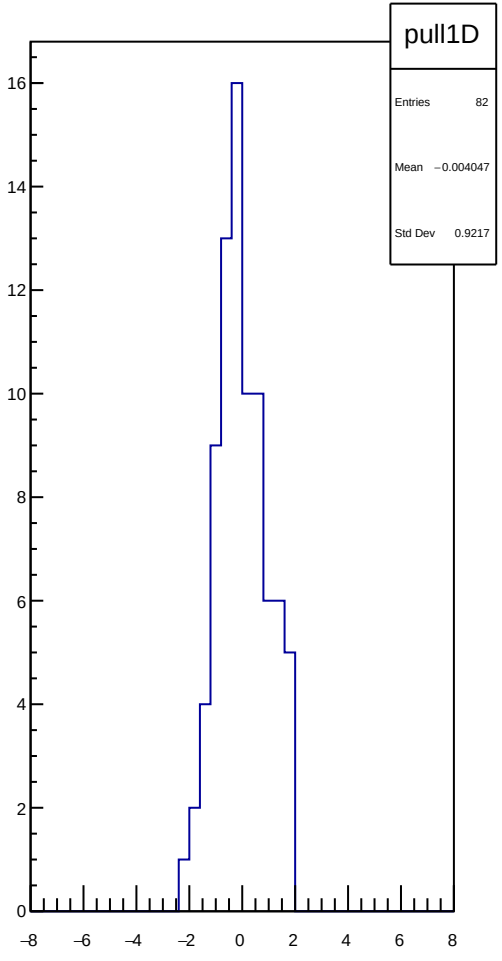

diff_bpm4ecX_rms vs run
χ² / ndf 1.394e+04 / 81
p0 2.707e+04 ± 21.28
45000
40000
35000
30000
25000

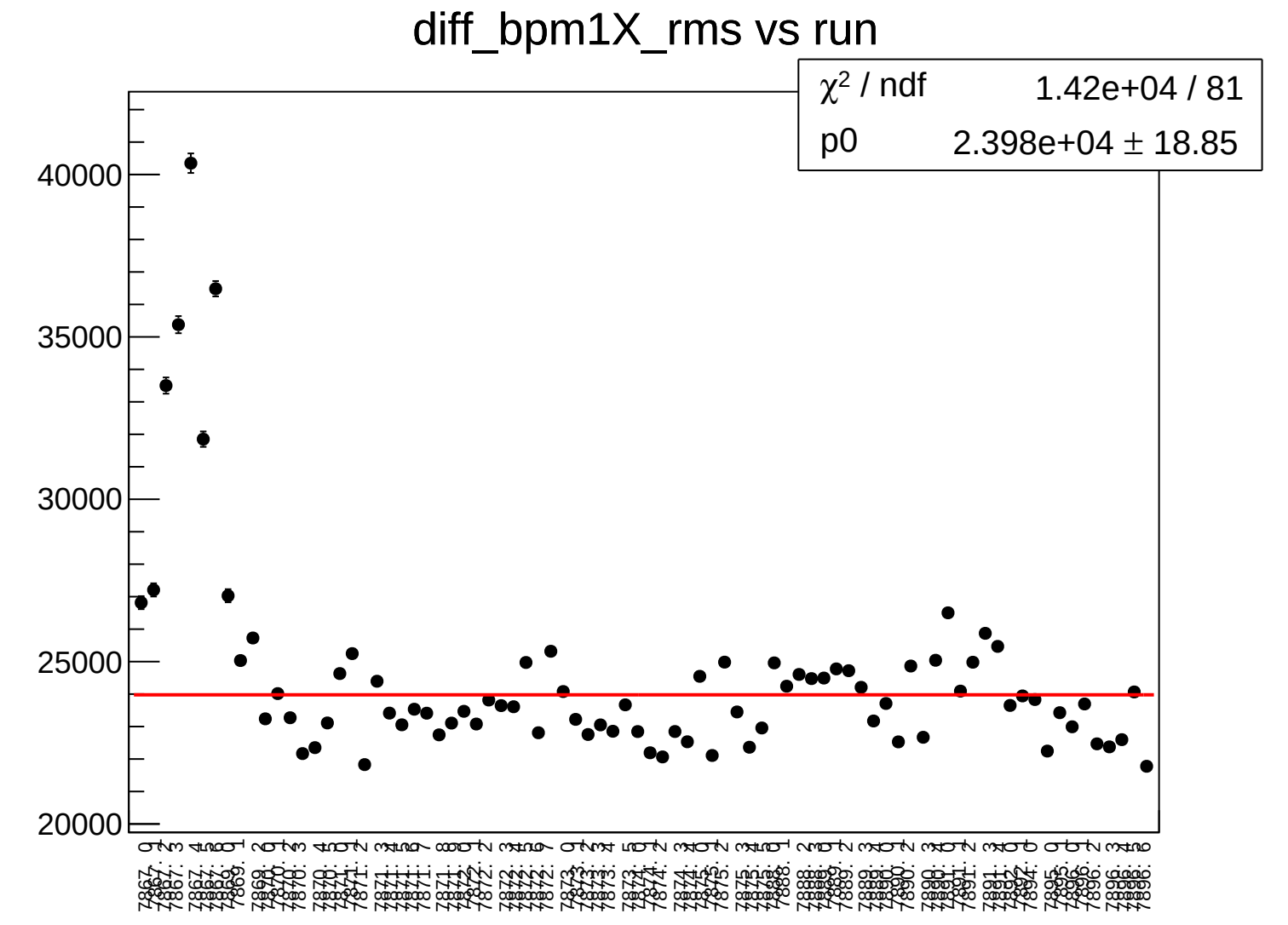

diff_bpm4ecY_mean vs run
χ^2 / ndf 68.68 / 81
p0 1.986 ± 4.657
150
100
50
0
−50
−100
pull
Entries 82
Mean 3.415
Std Dev 37.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

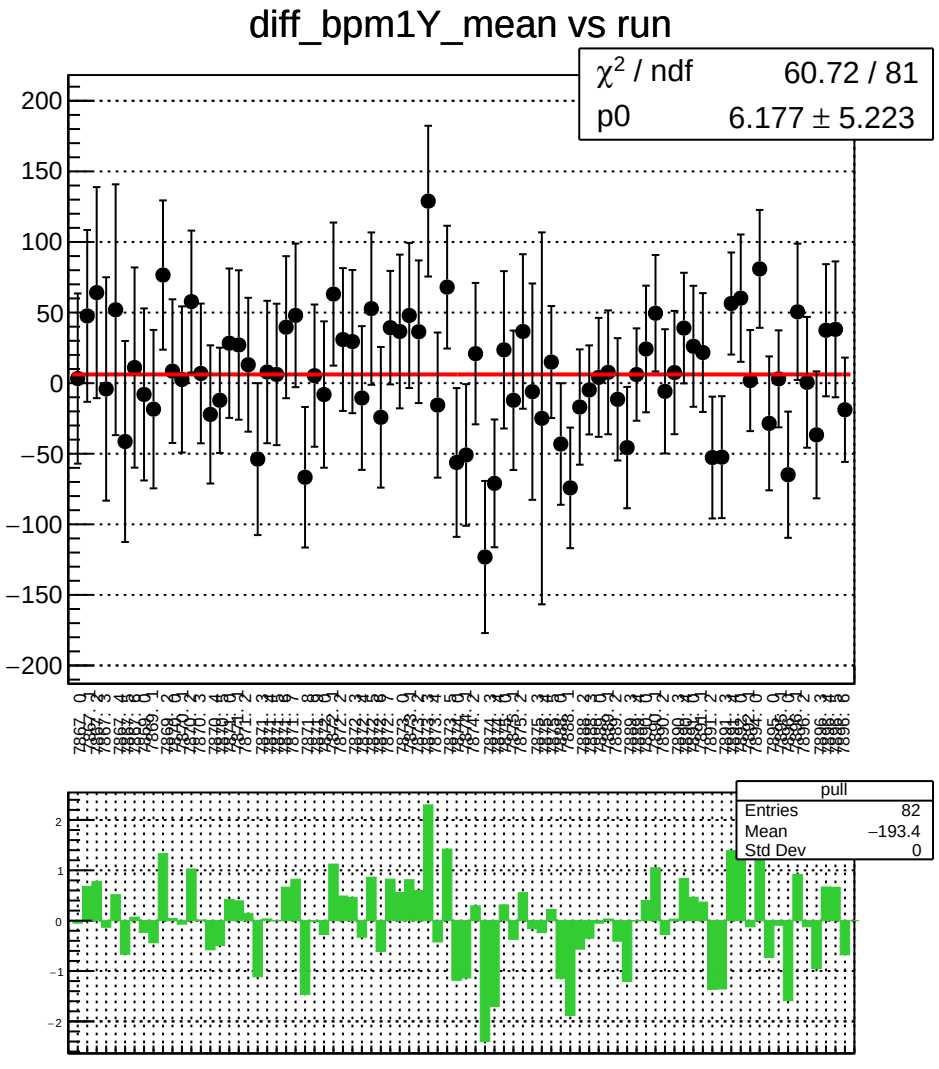

pull1D
Entries 82
Mean 0.01901
Std Dev 0.915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

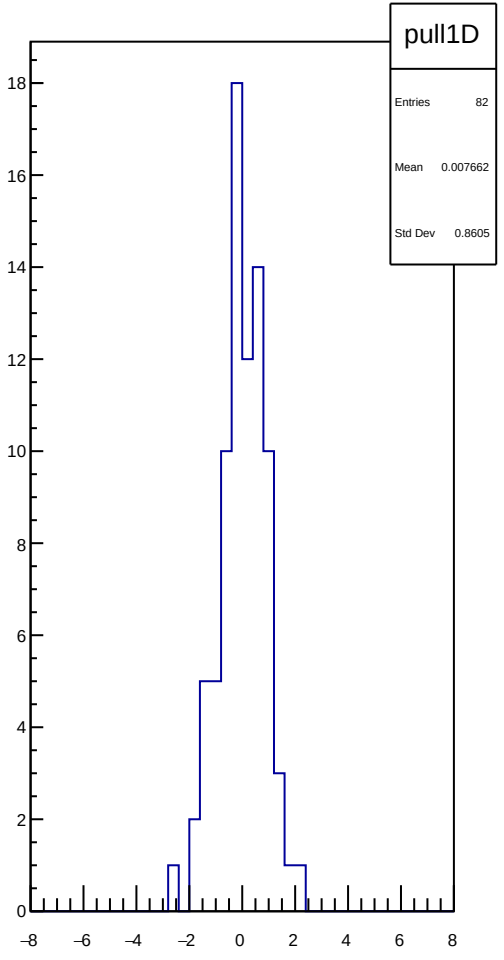

diff_bpm4ecY_rms vs run
χ² / ndf 2.941e+04 / 81
p0 4169 ± 3.293
6500
6000
5500
5000
4500
4000
3500

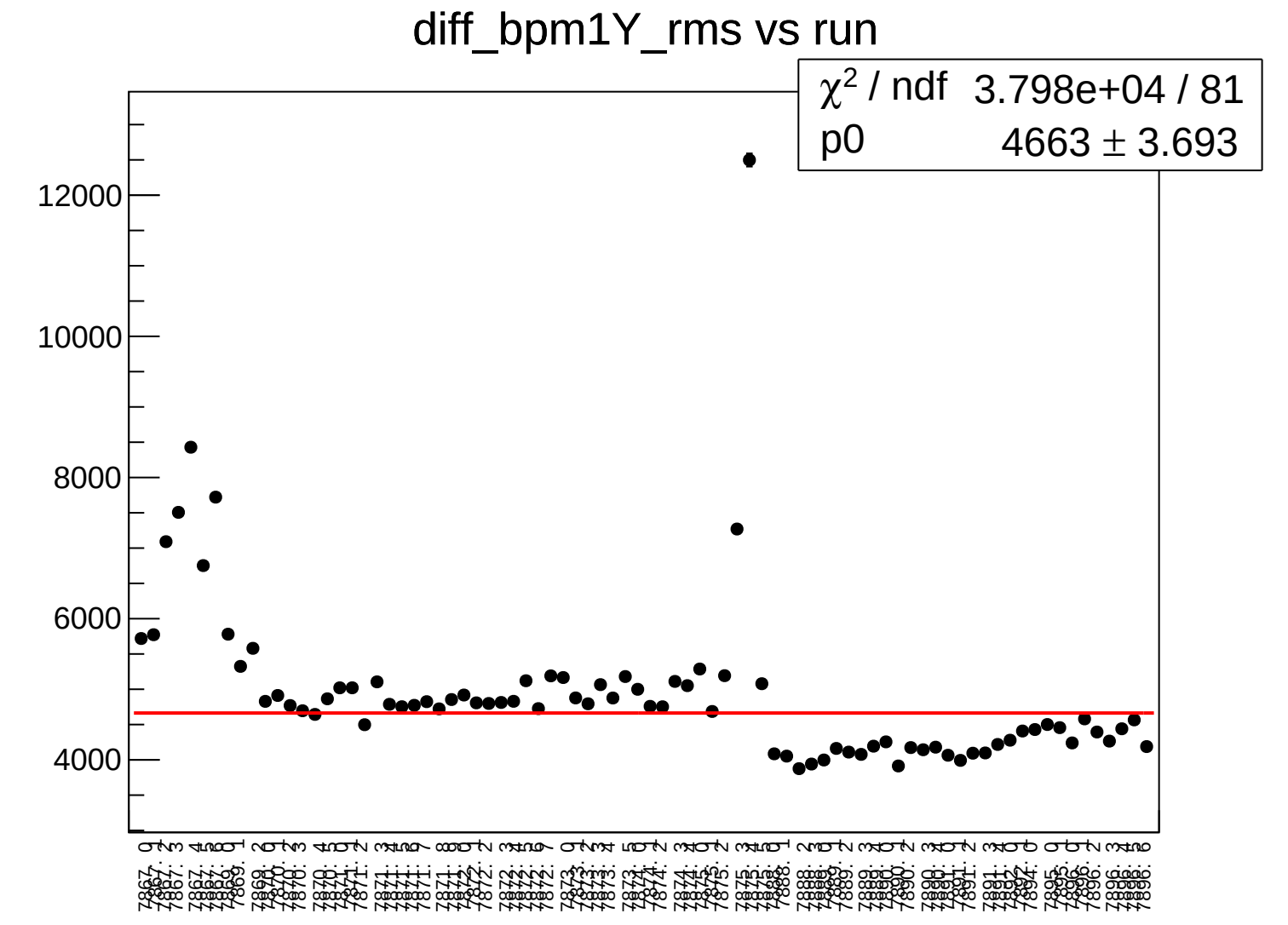

diff_bpm1X_mean vs run
χ² / ndf 69.66 / 81
p0 −7.527 ± 26.66
pull
Entries 82
Mean −230.9
Std Dev 0

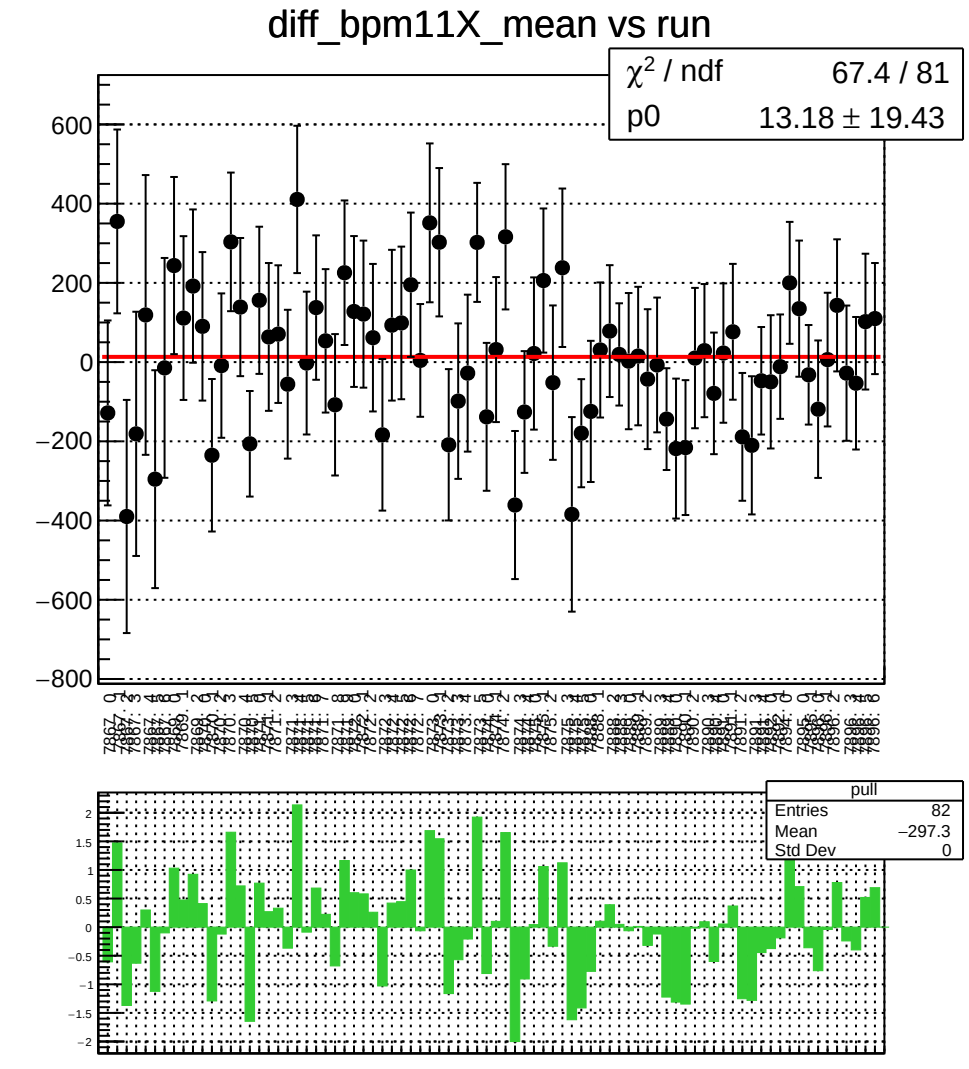

pull1D
Entries 82
Mean −0.004047
Std Dev 0.9217

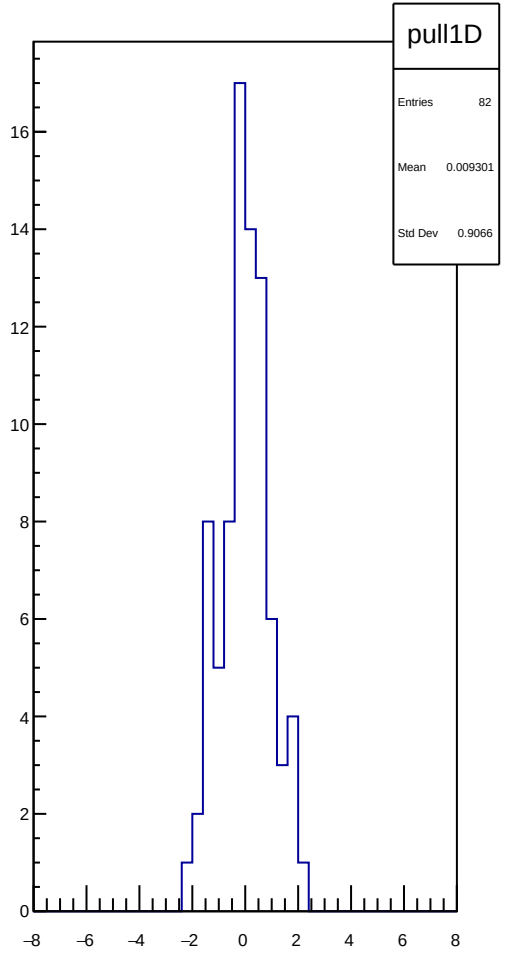

diff_bpm1X_rms vs run
χ² / ndf 1.42e+04 / 81
p0 2.398e+04 ± 18.85
40000
35000
30000
25000
20000

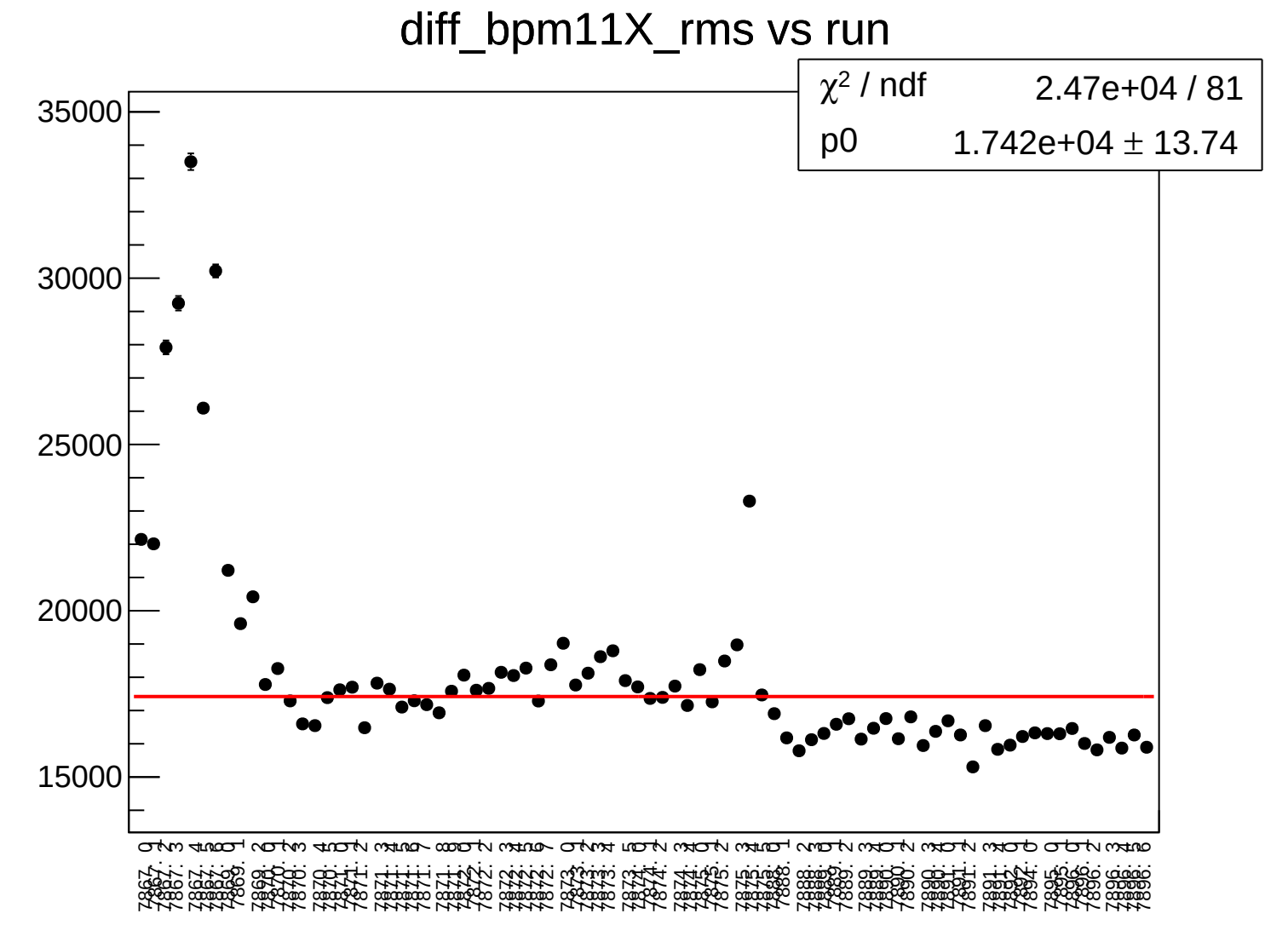

diff_bpm1Y_mean vs run
χ^2 / ndf 60.72 / 81
p0 6.177 ± 5.223
pull
Entries 82
Mean −193.4
Std Dev 0

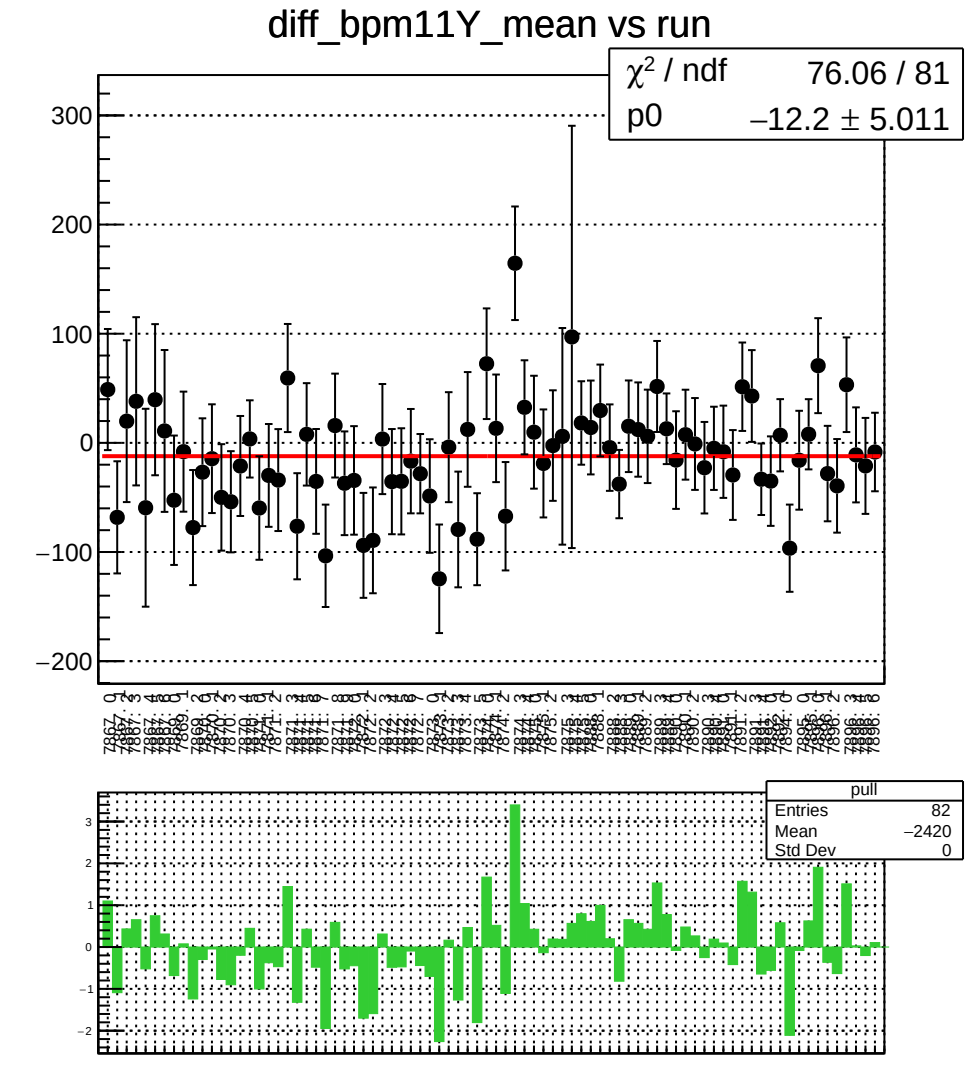

pull1D
Entries 82
Mean 0.007662
Std Dev 0.8605

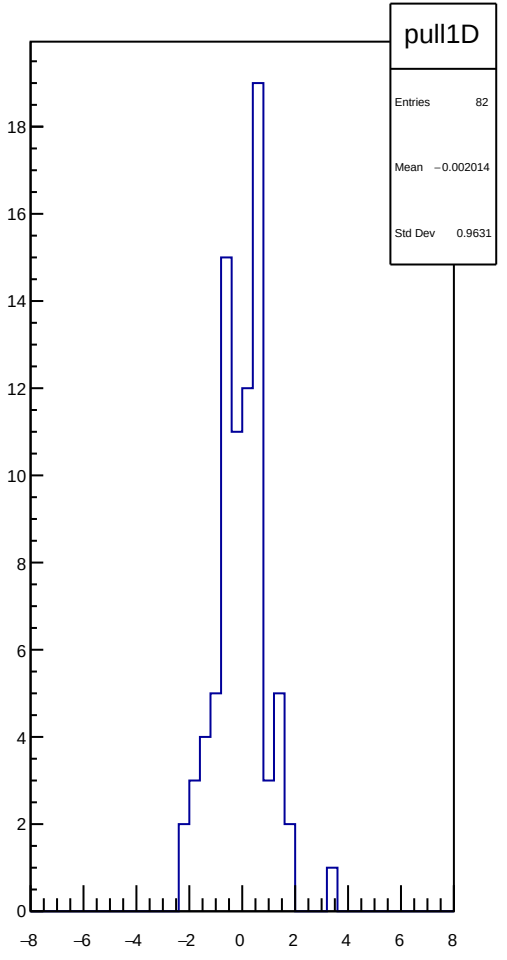

diff_bpm1Y_rms vs run
χ² / ndf 3.798e+04 / 81
p0 4663 ± 3.693
12000
10000
8000
6000
4000

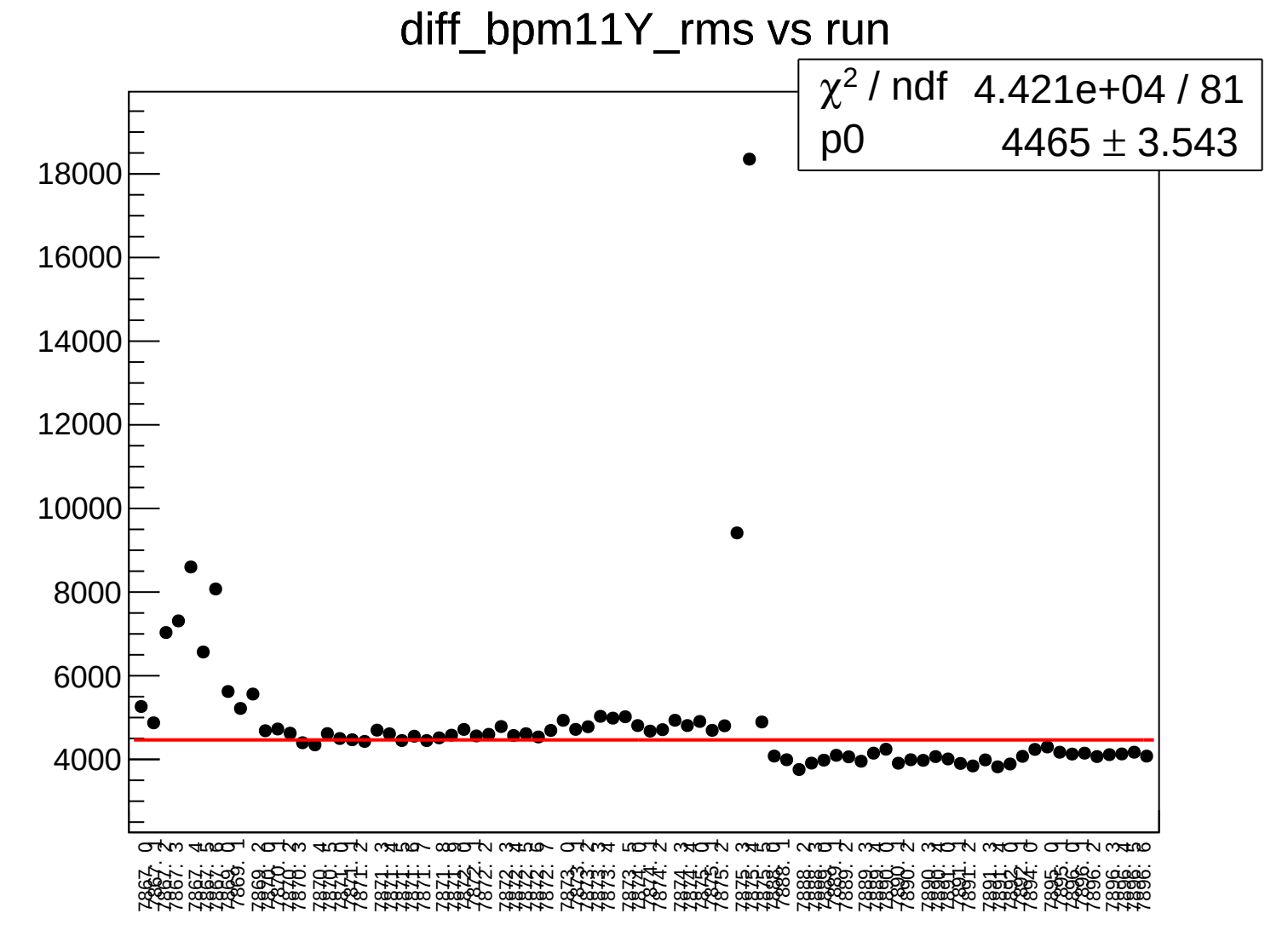

diff_bpm11X_mean vs run
χ² / ndf 67.4 / 81
p0 13.18 ± 19.43
pull
Entries 82
Mean −297.3
Std Dev 0

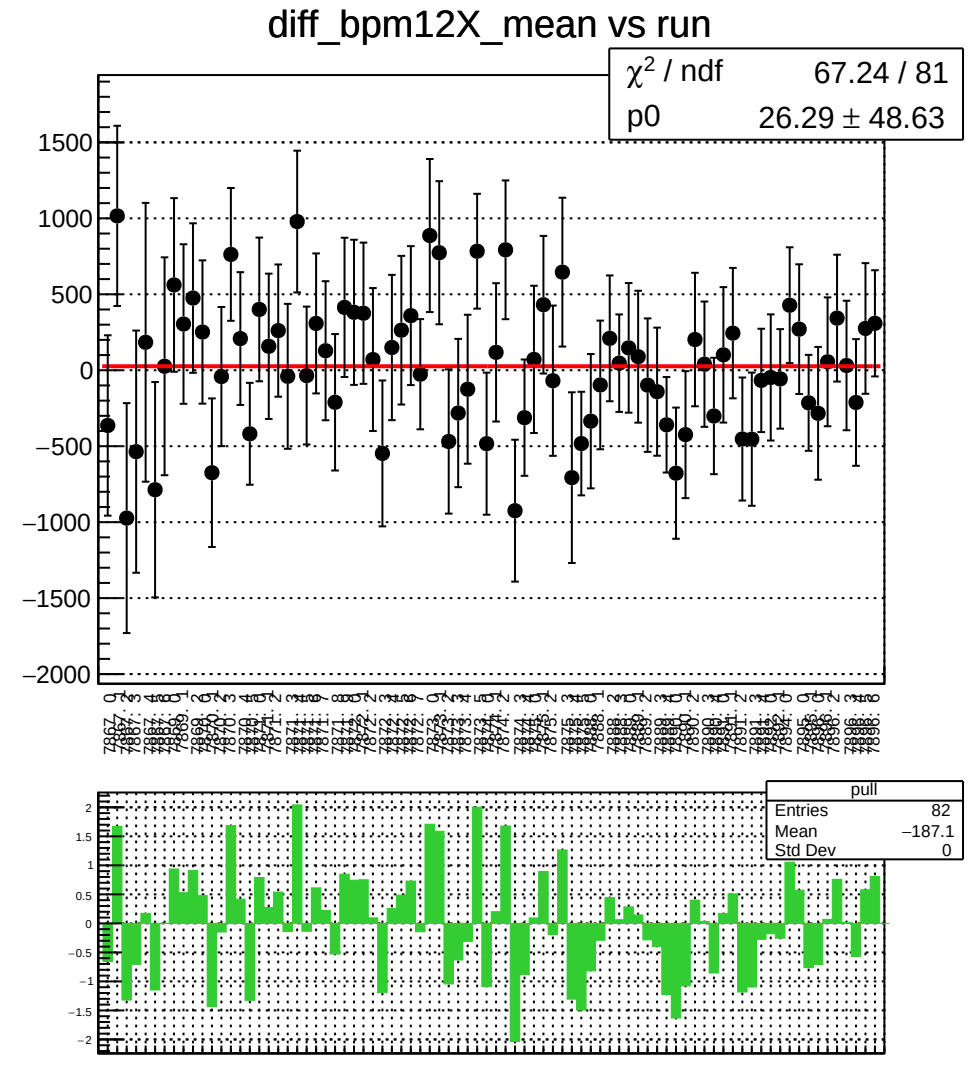

pull1D
Entries 82
Mean 0.009301
Std Dev 0.9066

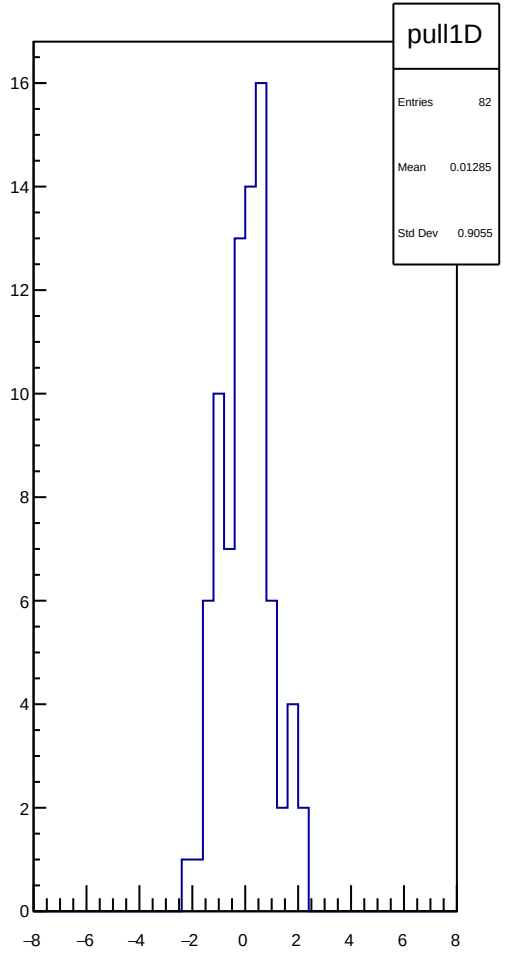

diff_bpm11X_rms vs run
χ² / ndf 2.47e+04 / 81
p0 1.742e+04 ± 13.74
35000
30000
25000
20000
15000

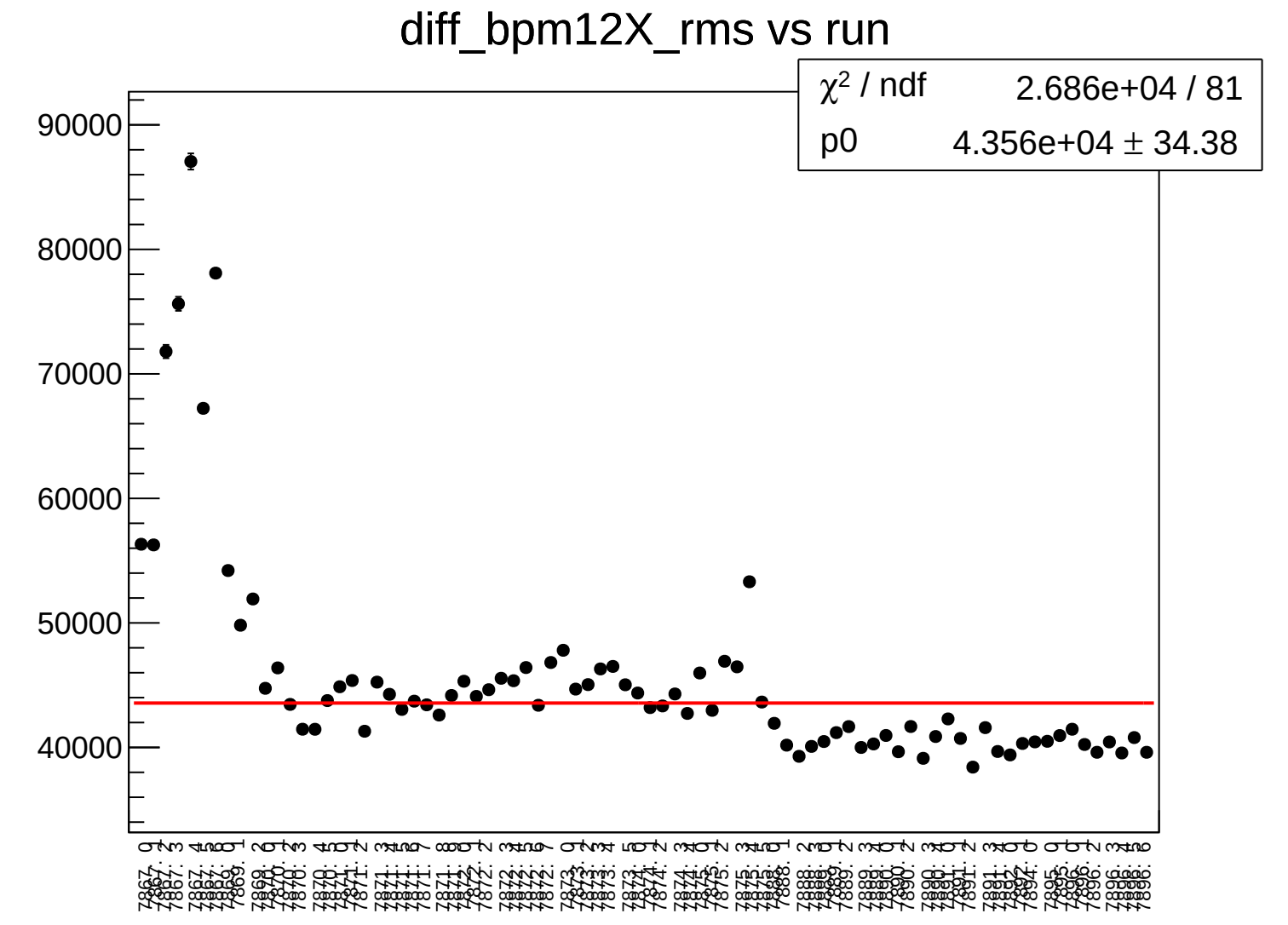

diff_bpm11Y_mean vs run
χ² / ndf 76.06 / 81
p0 −12.2 ± 5.011
pull
Entries 82
Mean −2420
Std Dev 0

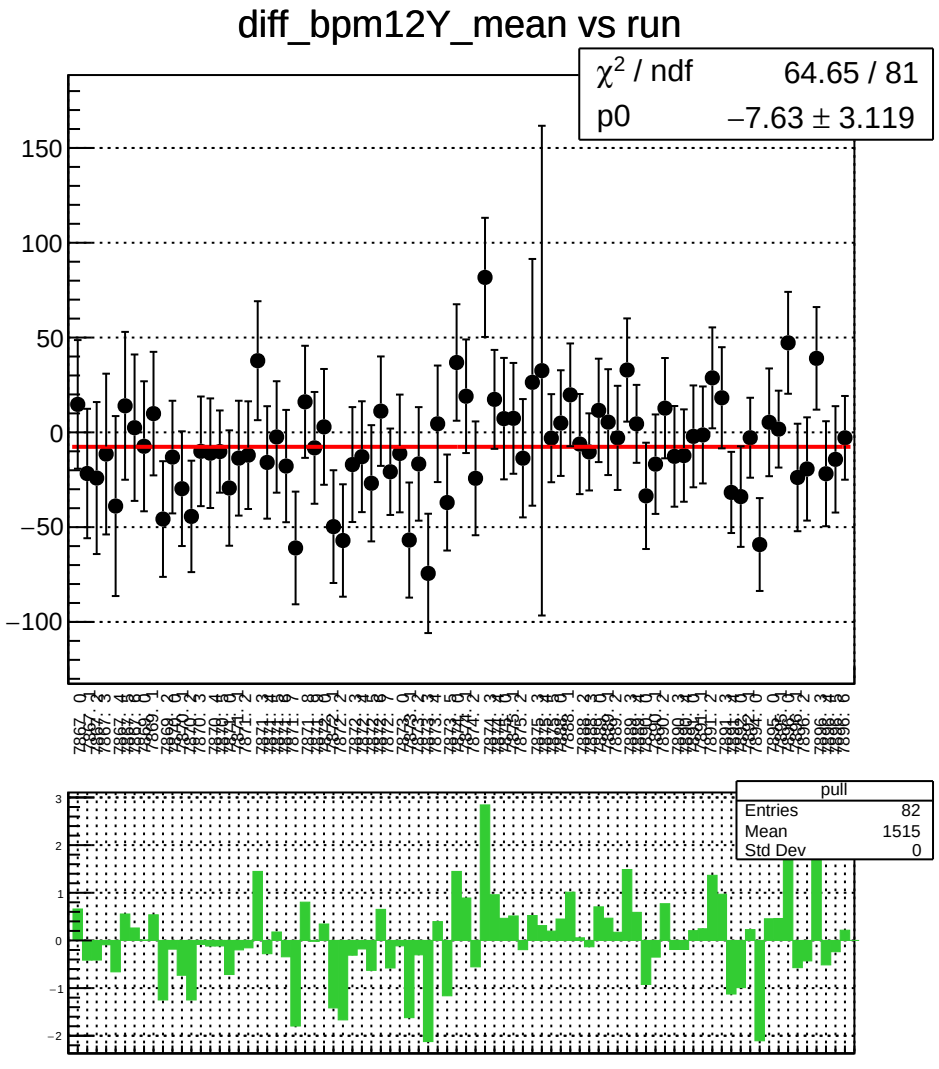

pull1D
Entries 82
Mean −0.002014
Std Dev 0.9631

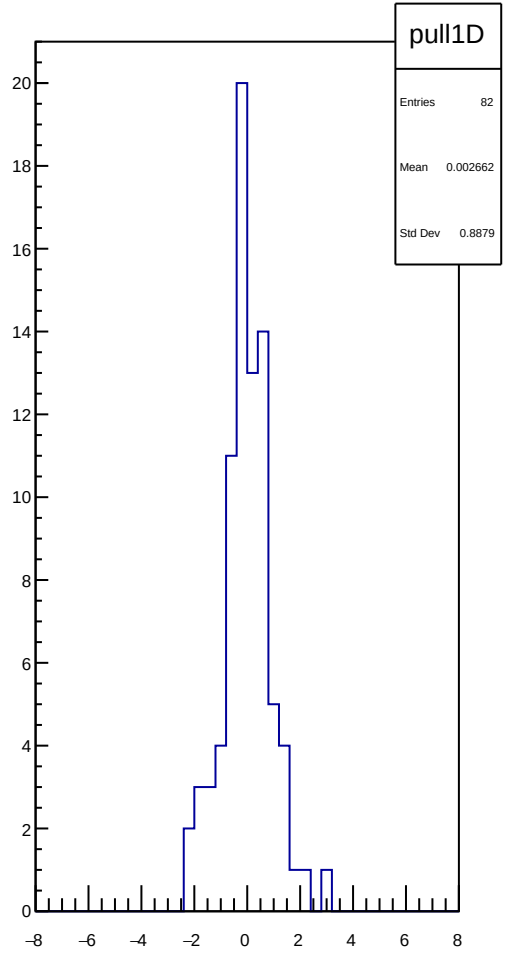

diff_bpm11Y_rms vs run
χ² / ndf 4.421e+04 / 81
p0 4465 ± 3.543
18000
16000
14000
12000
10000
8000
6000
4000

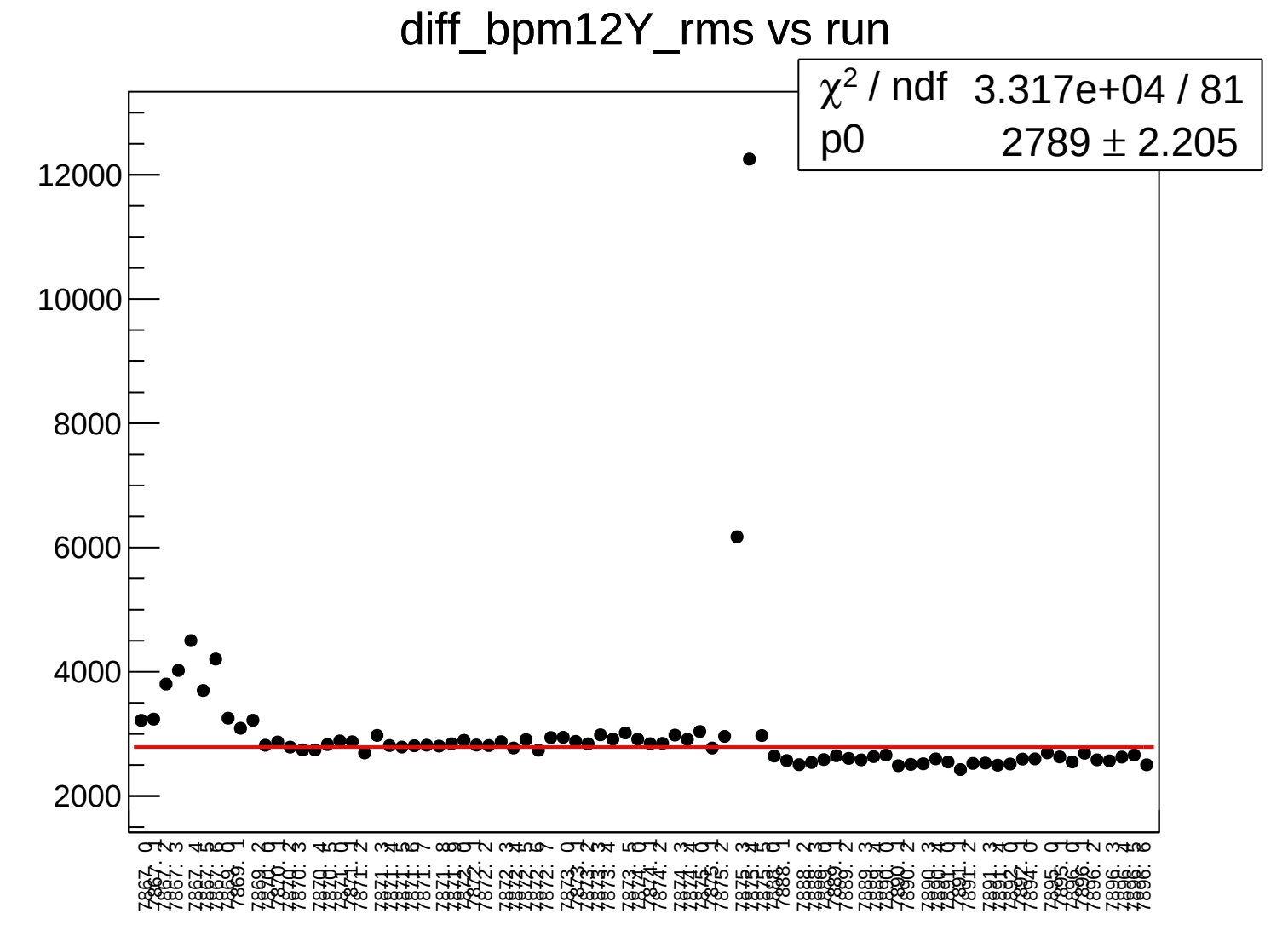

diff_bpm12X_mean vs run
χ² / ndf 67.24 / 81
p0 26.29 ± 48.63
pull
Entries 82
Mean −187.1
Std Dev 0

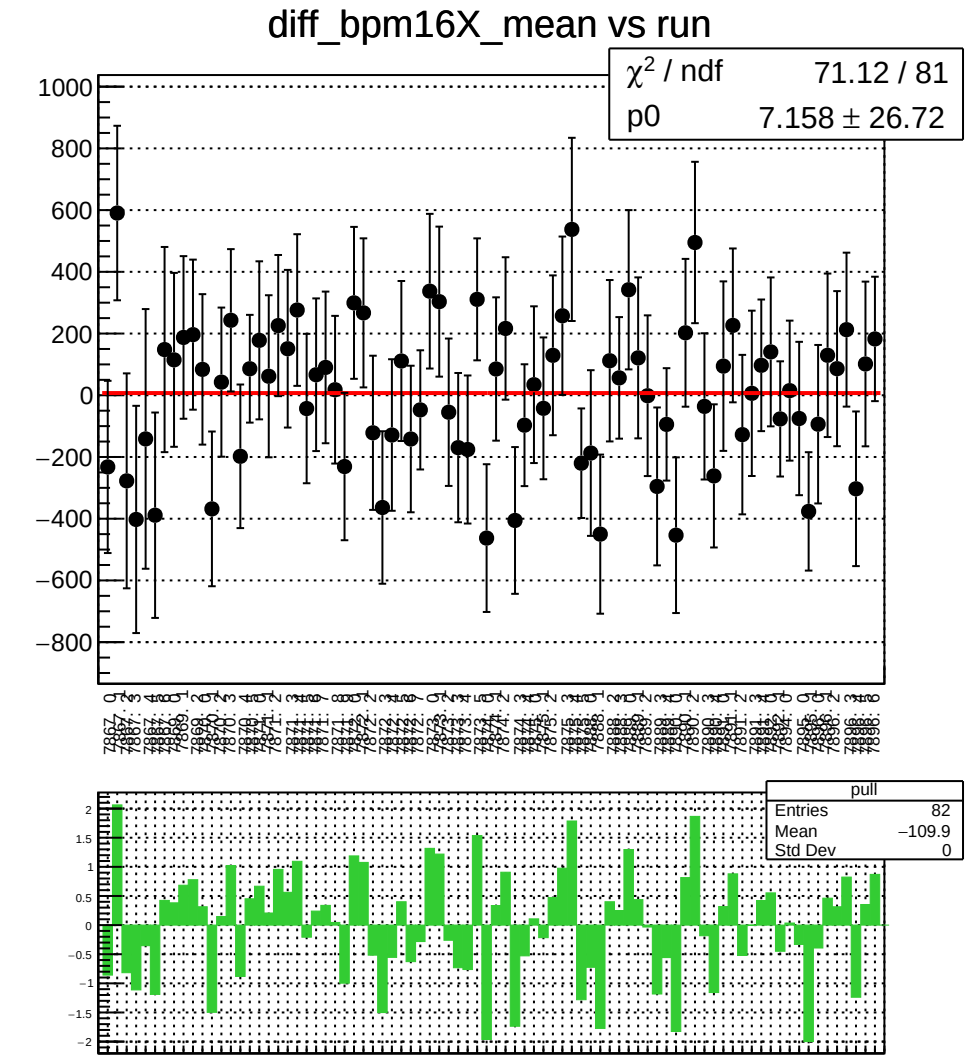

pull1D
Entries 82
Mean 0.01285
Std Dev 0.9055

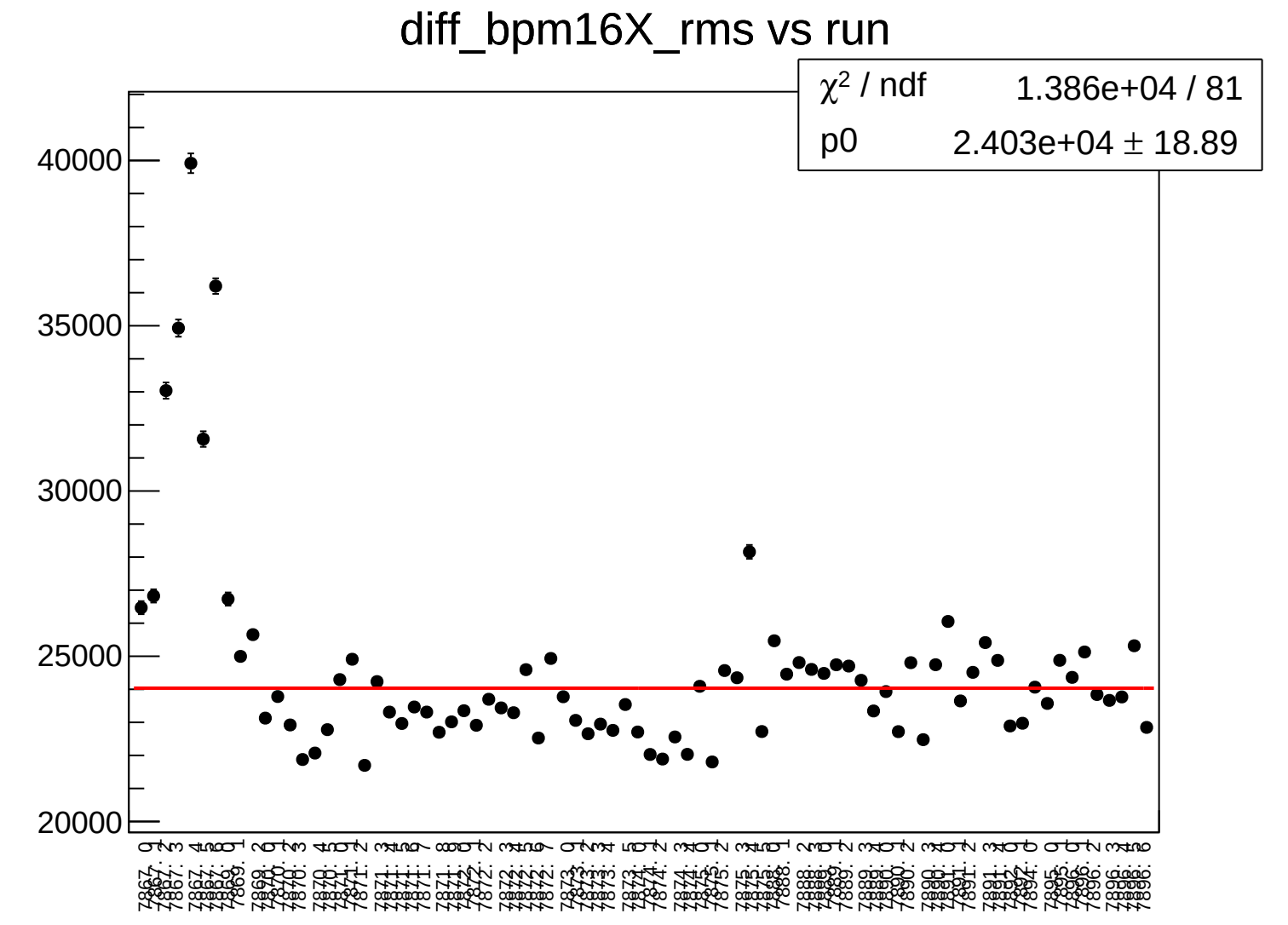

diff_bpm12X_rms vs run
χ² / ndf 2.686e+04 / 81
p0 4.356e+04 ± 34.38
90000
80000
70000
60000
50000
40000

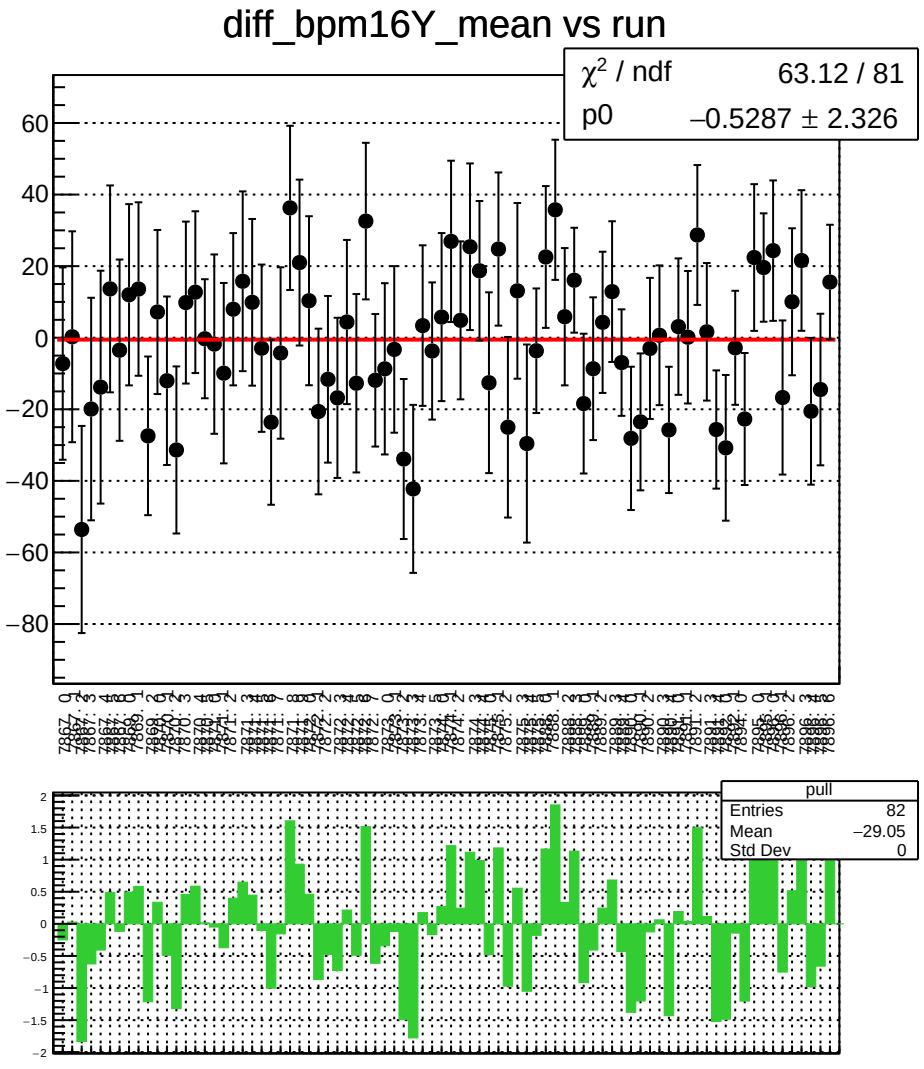

diff_bpm12Y_mean vs run
χ^2 / ndf 64.65 / 81
p0 −7.63 ± 3.119
150
100
50
0
−50
−100
pull
Entries 82
Mean 1515
Std Dev 0
3
2
1
0
−1
−2

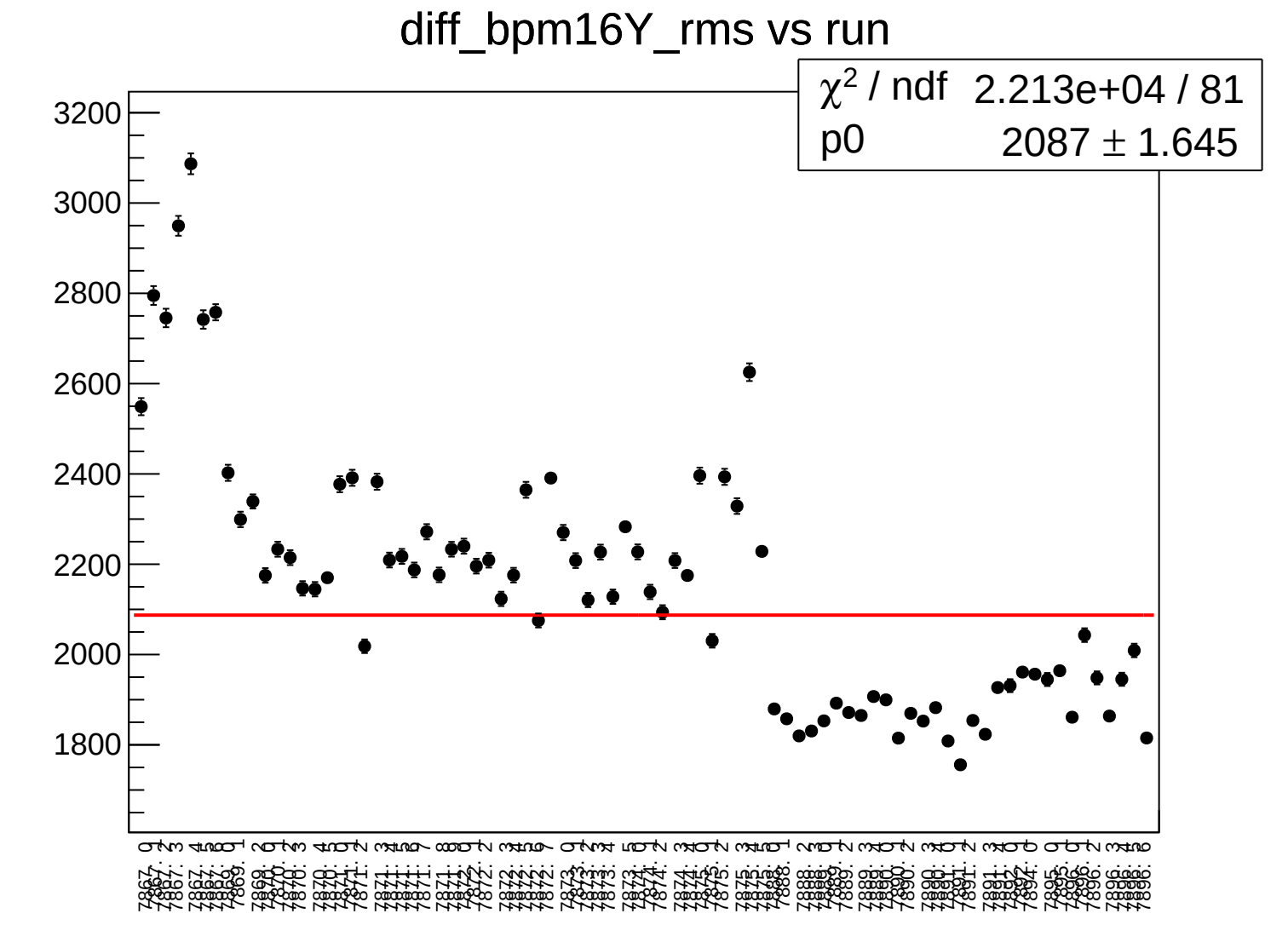

pull1D
Entries 82
Mean 0.002662
Std Dev 0.8879
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

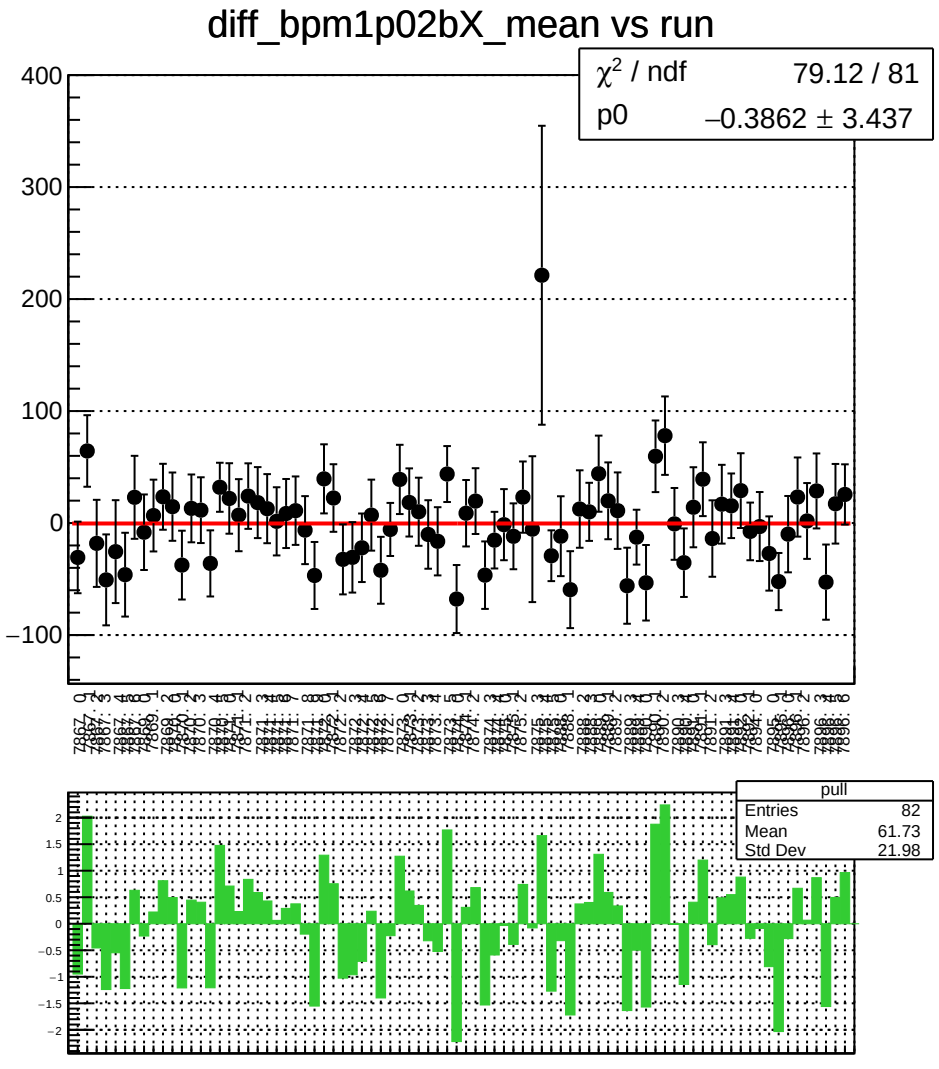

diff_bpm12Y_rms vs run
χ² / ndf 3.317e+04 / 81
p0 2789 ± 2.205
12000
10000
8000
6000
4000
2000

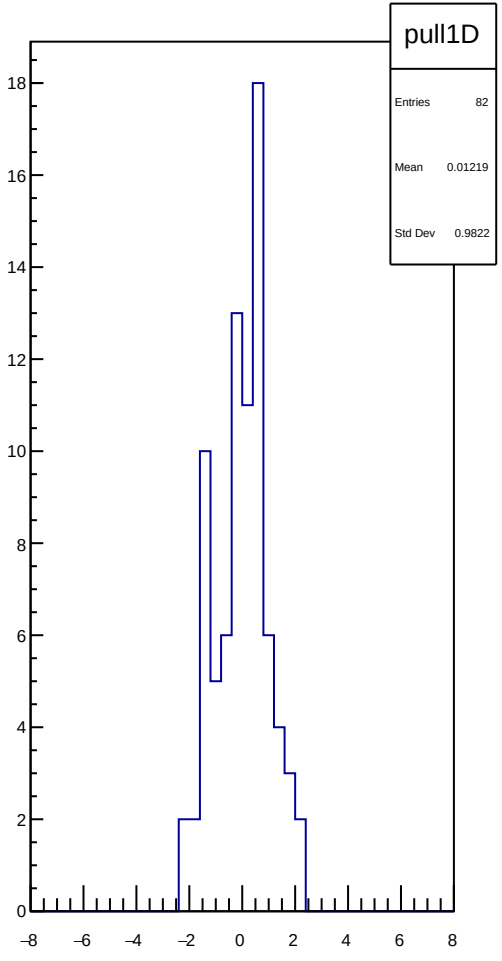

diff_bpm16X_mean vs run
χ² / ndf 71.12 / 81
p0 7.158 ± 26.72
pull
Entries 82
Mean −109.9
Std Dev 0
pull1D
Entries 82
Mean 0.006753
Std Dev 0.9313

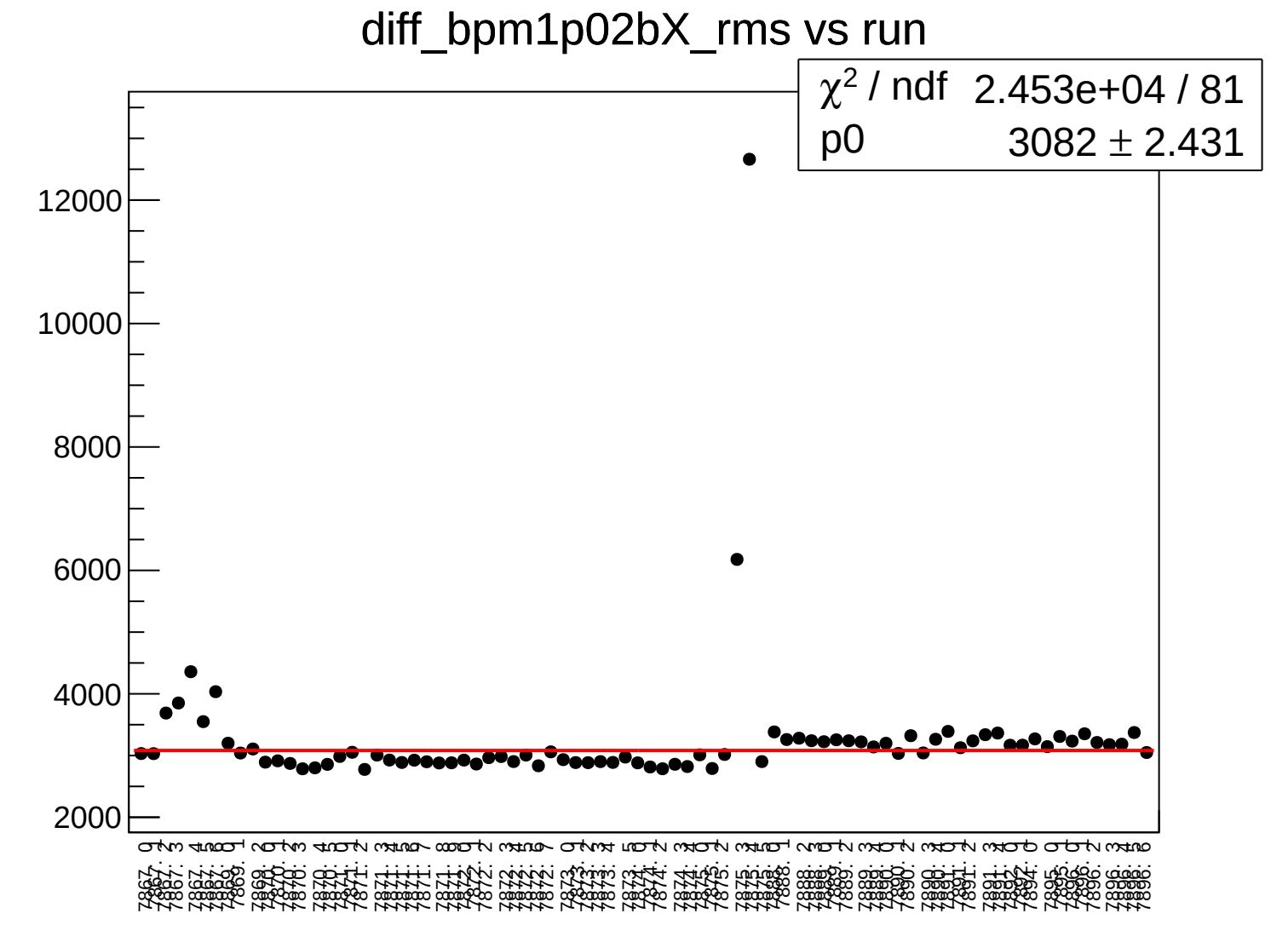

diff_bpm16X_rms vs run
χ² / ndf 1.386e+04 / 81
p0 2.403e+04 ± 18.89
40000
35000
30000
25000
20000

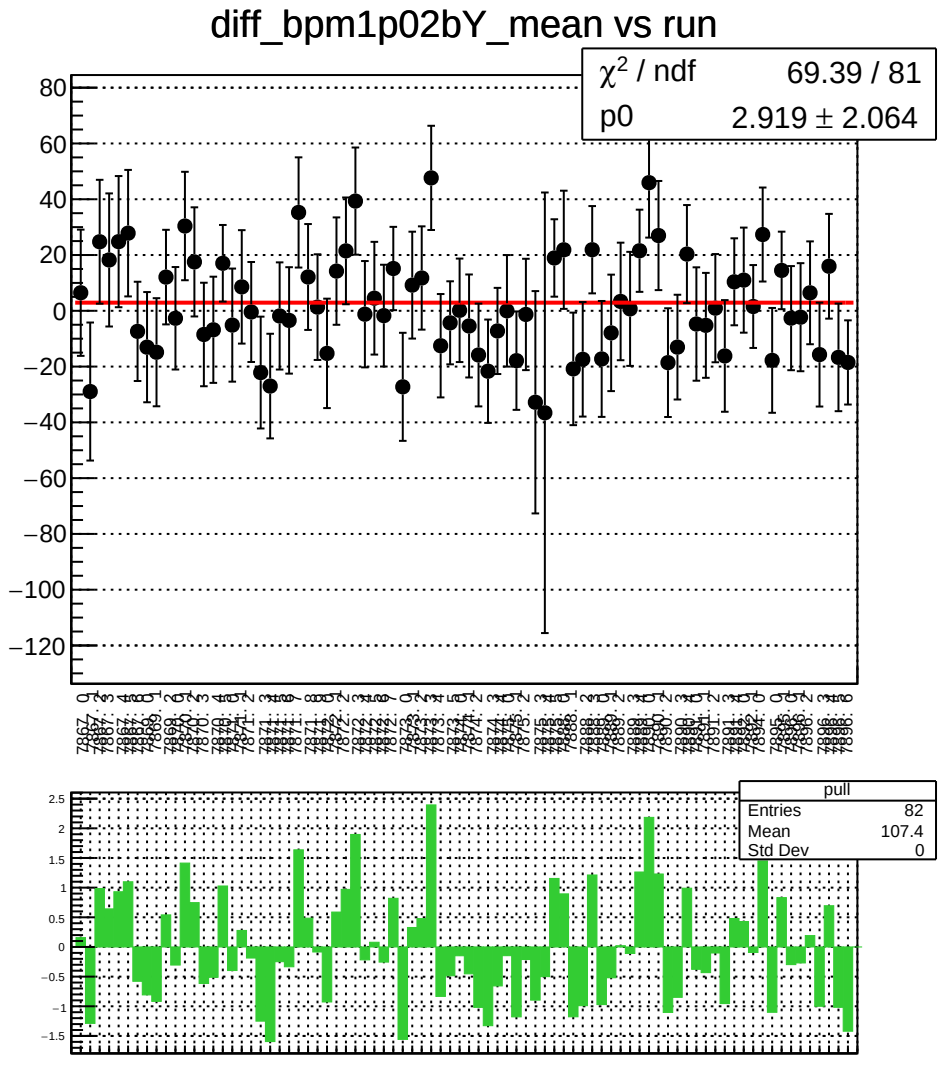

diff_bpm16Y_mean vs run
χ² / ndf 63.12 / 81
p0 −0.5287 ± 2.326
pull
Entries 82
Mean −29.05
Std Dev 0
pull1D
Entries 82
Mean −0.02062
Std Dev 0.8771

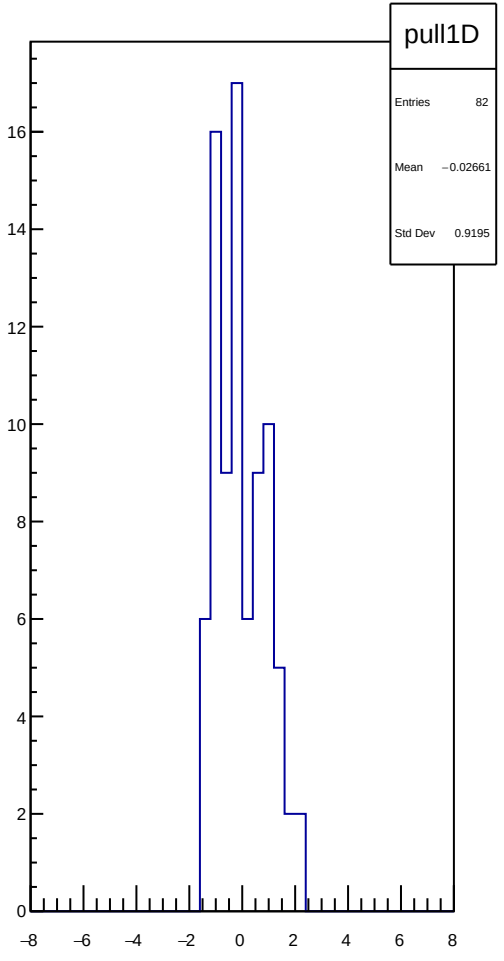

diff_bpm16Y_rms vs run
χ^2 / ndf 2.213e+04 / 81
p0 2087 ± 1.645
3200
3000
2800
2600
2400
2200
2000
1800

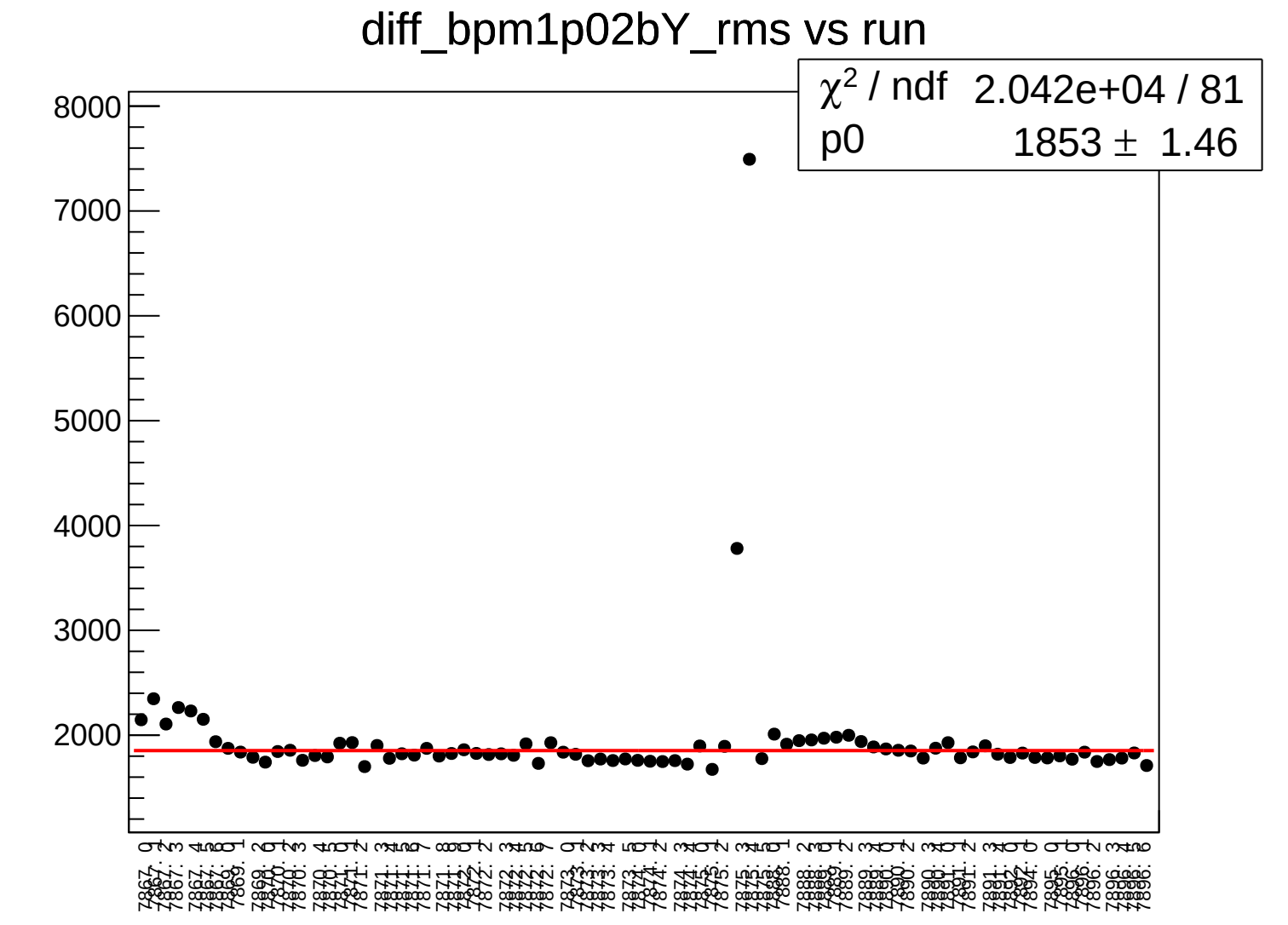

diff_bpm1p02bX_mean vs run
χ² / ndf 79.12 / 81
p0 −0.3862 ± 3.437
pull
Entries 82
Mean 61.73
Std Dev 21.98

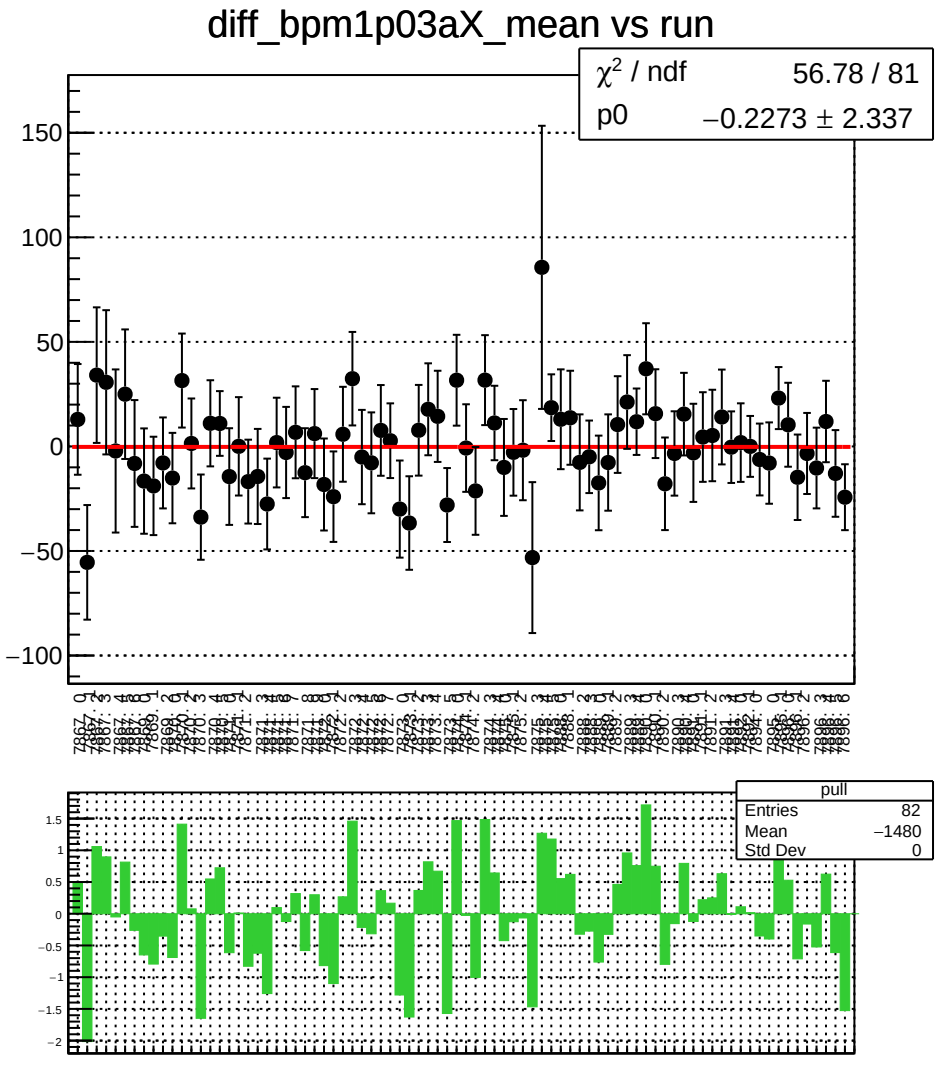

pull1D
Entries 82
Mean 0.01219
Std Dev 0.9822

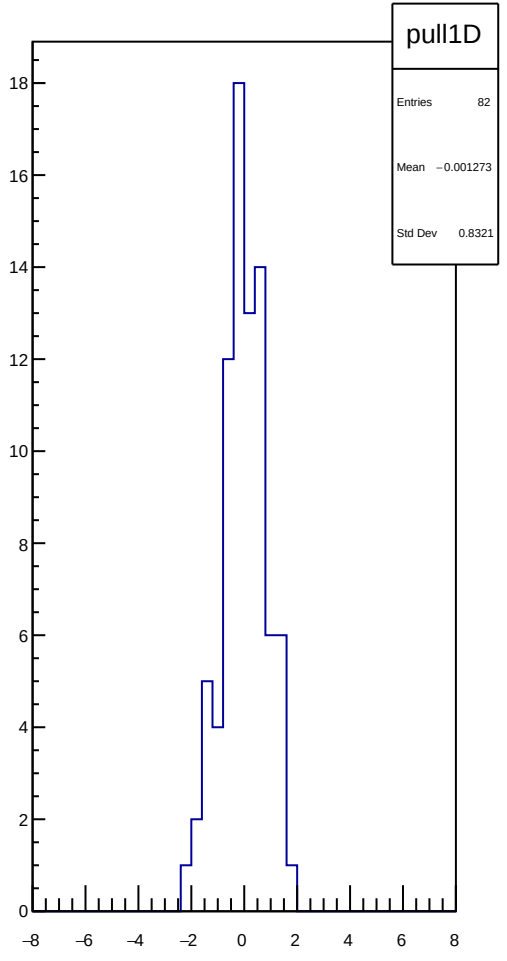

diff_bpm1p02bX_rms vs run
χ² / ndf 2.453e+04 / 81
p0 3082 ± 2.431
12000
10000
8000
6000
4000
2000

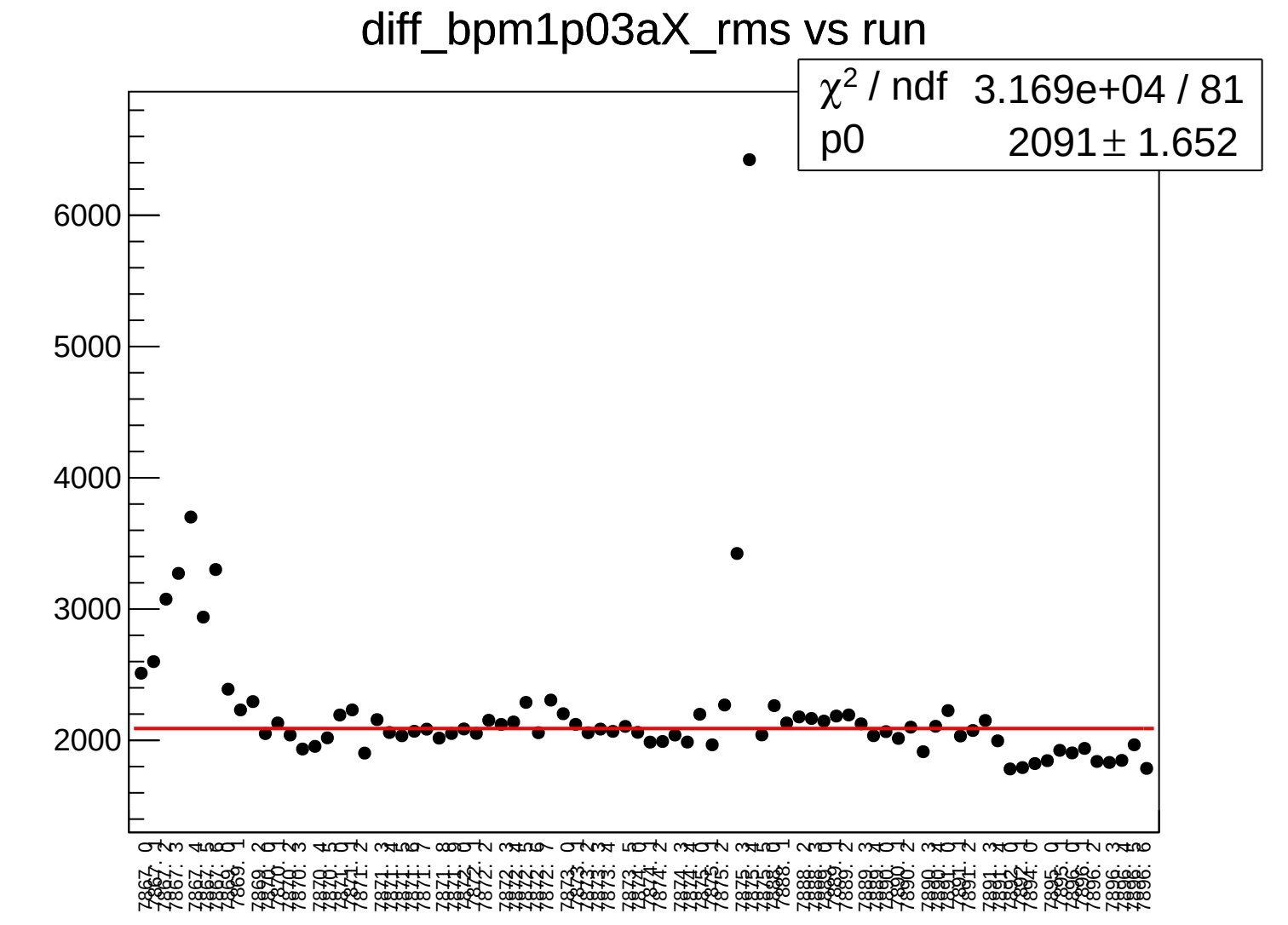

diff_bpm1p02bY_mean vs run
χ² / ndf 69.39 / 81
p0 2.919 ± 2.064
pull
Entries 82
Mean 107.4
Std Dev 0

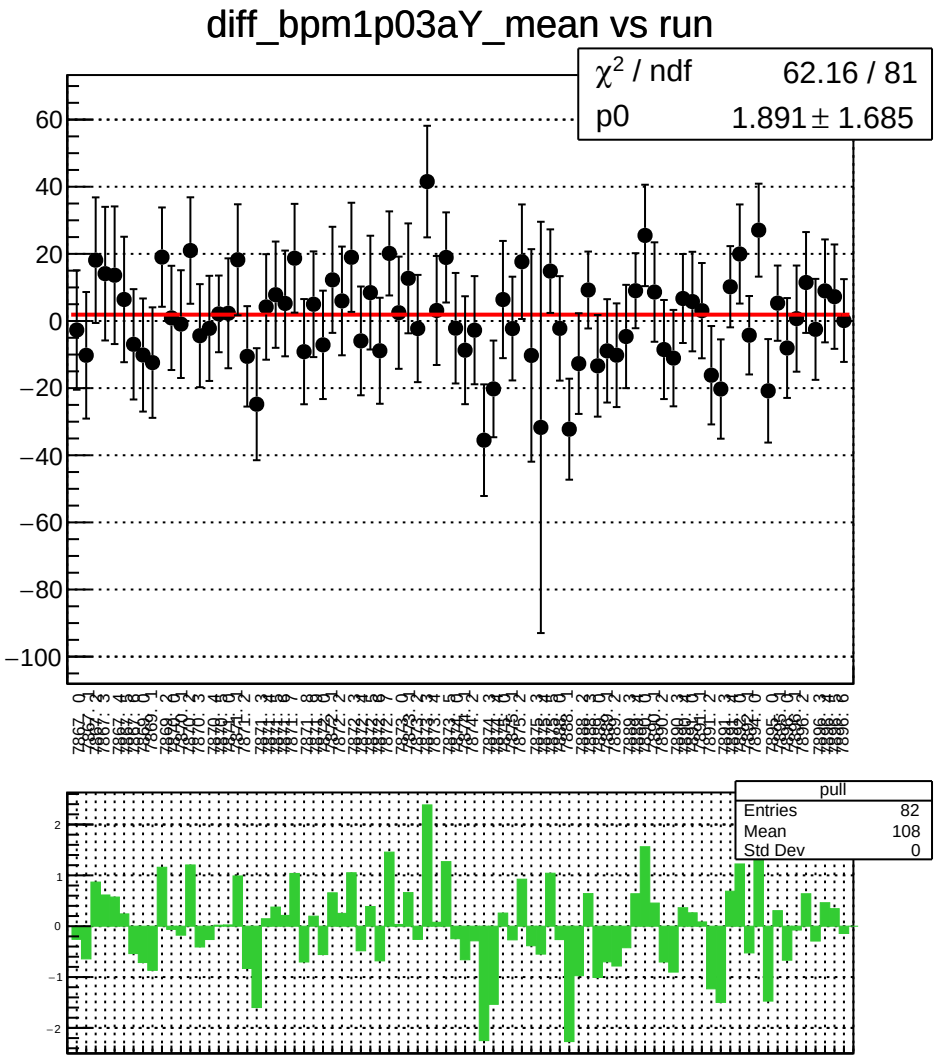

pull1D
Entries 82
Mean −0.02661
Std Dev 0.9195

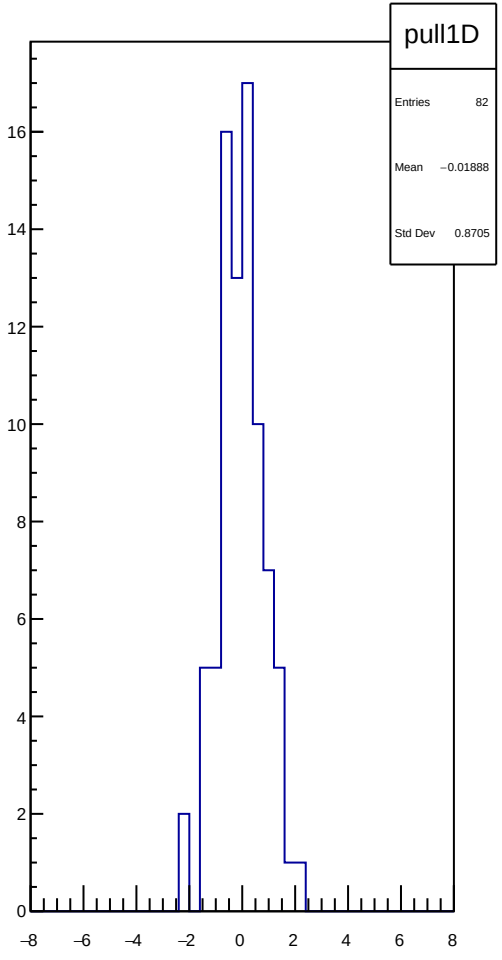

diff_bpm1p02bY_rms vs run
χ² / ndf 2.042e+04 / 81
p0 1853 ± 1.46
8000
7000
6000
5000
4000
3000
2000

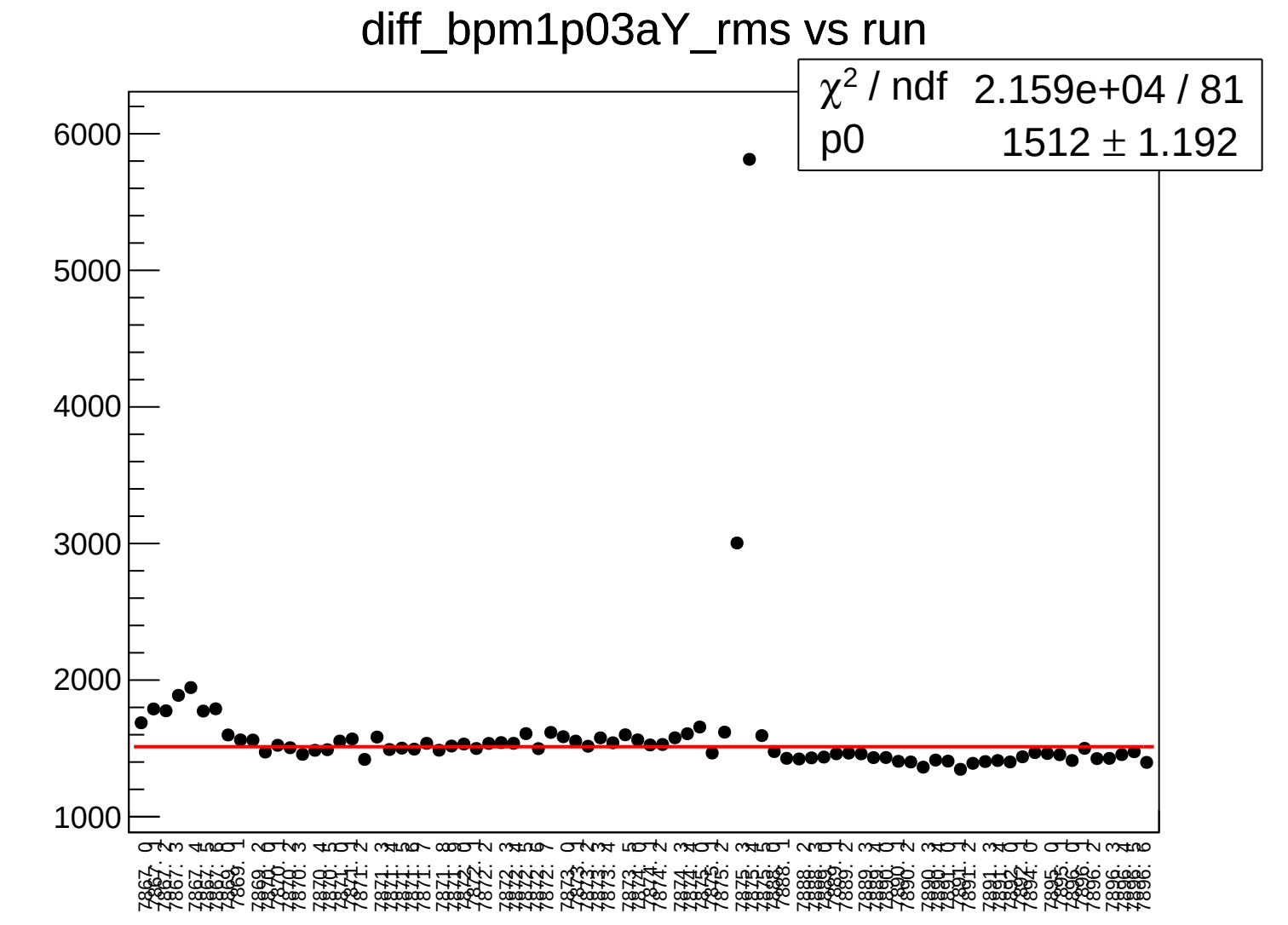

diff_bpm1p03aX_mean vs run
χ² / ndf 56.78 / 81
p0 −0.2273 ± 2.337
150
100
50
0
−50
−100
pull
Entries 82
Mean −1480
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

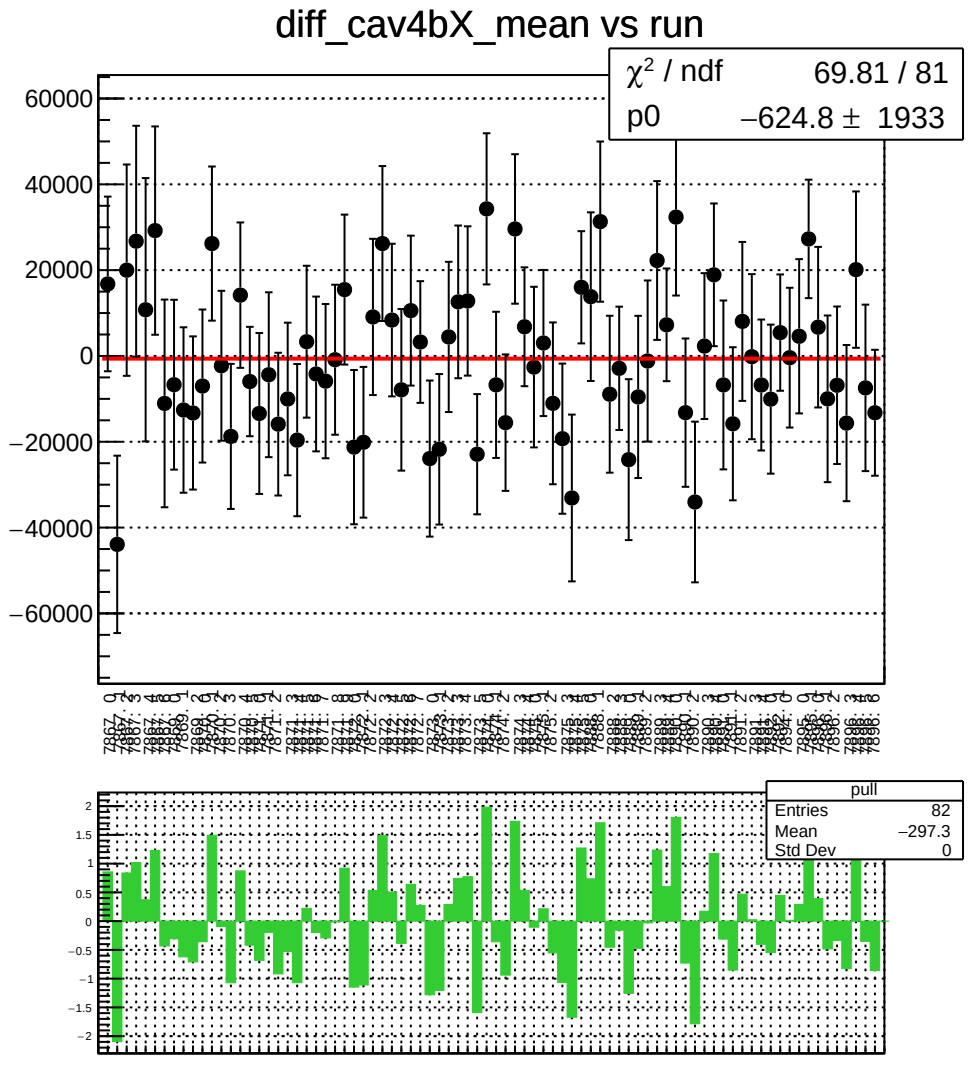

pull1D
Entries 82
Mean −0.001273
Std Dev 0.8321
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

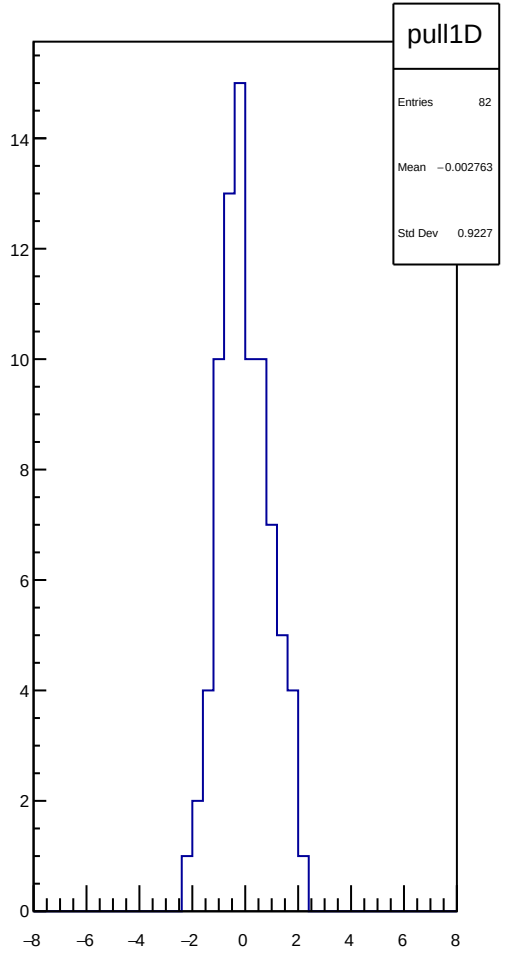

diff_bpm1p03aX_rms vs run
χ² / ndf 3.169e+04 / 81
p0 2091 ± 1.652
6000
5000
4000
3000
2000

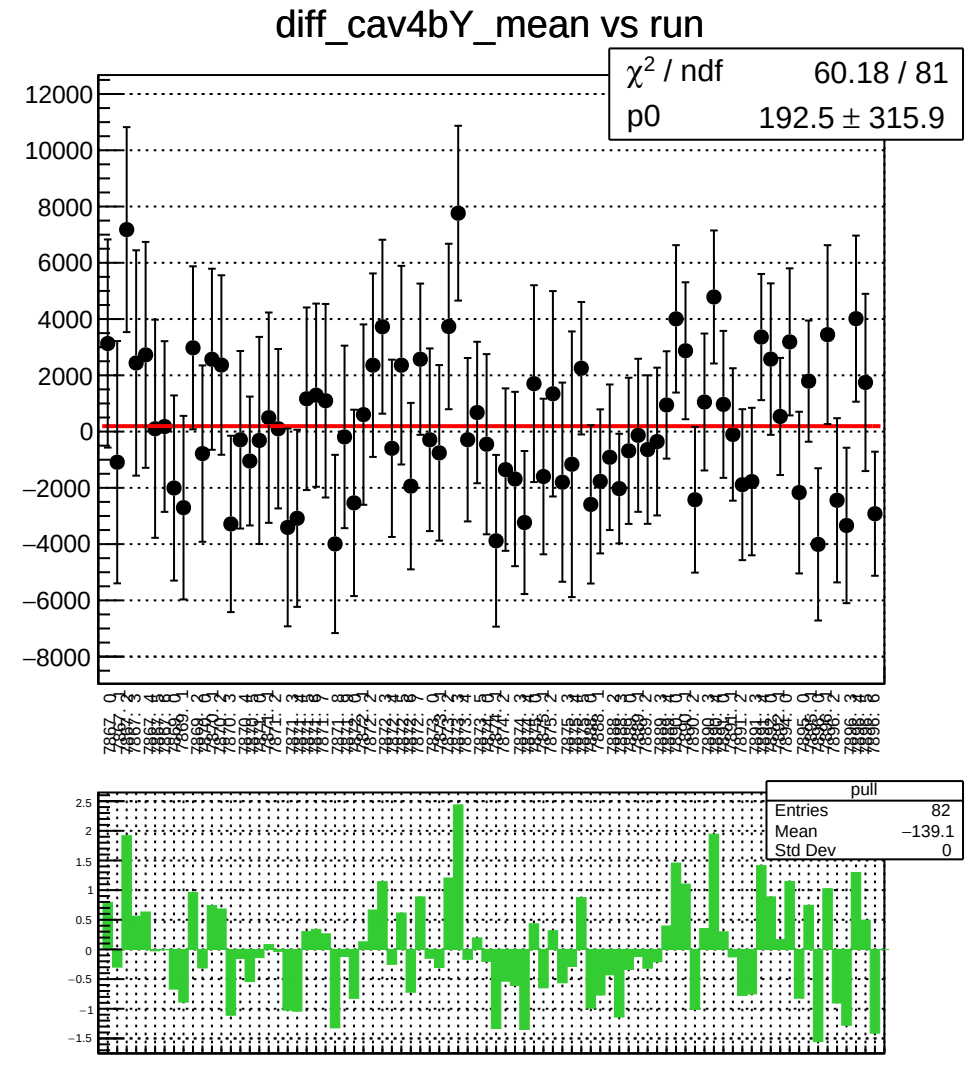

diff_bpm1p03aY_mean vs run
χ² / ndf 62.16 / 81
p0 1.891 ± 1.685
pull
Entries 82
Mean 108
Std Dev 0

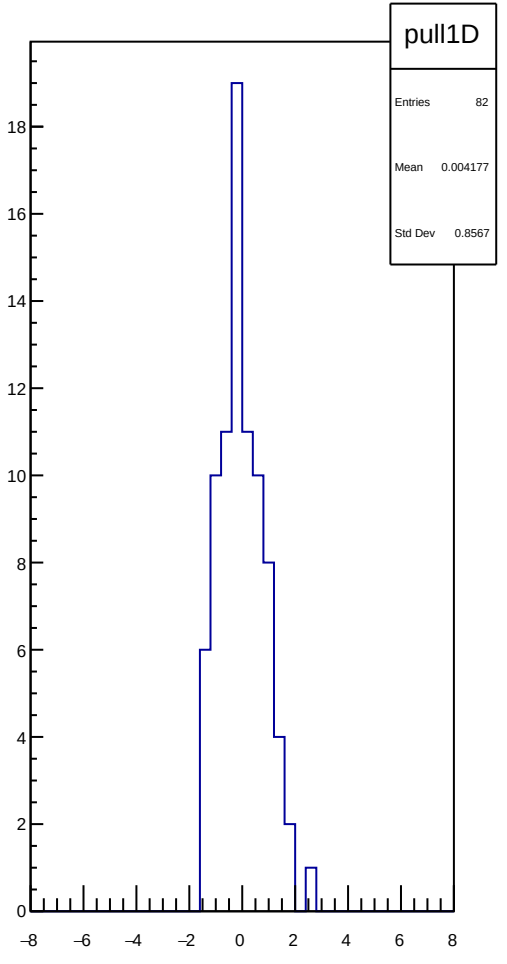

pull1D
Entries 82
Mean −0.01888
Std Dev 0.8705

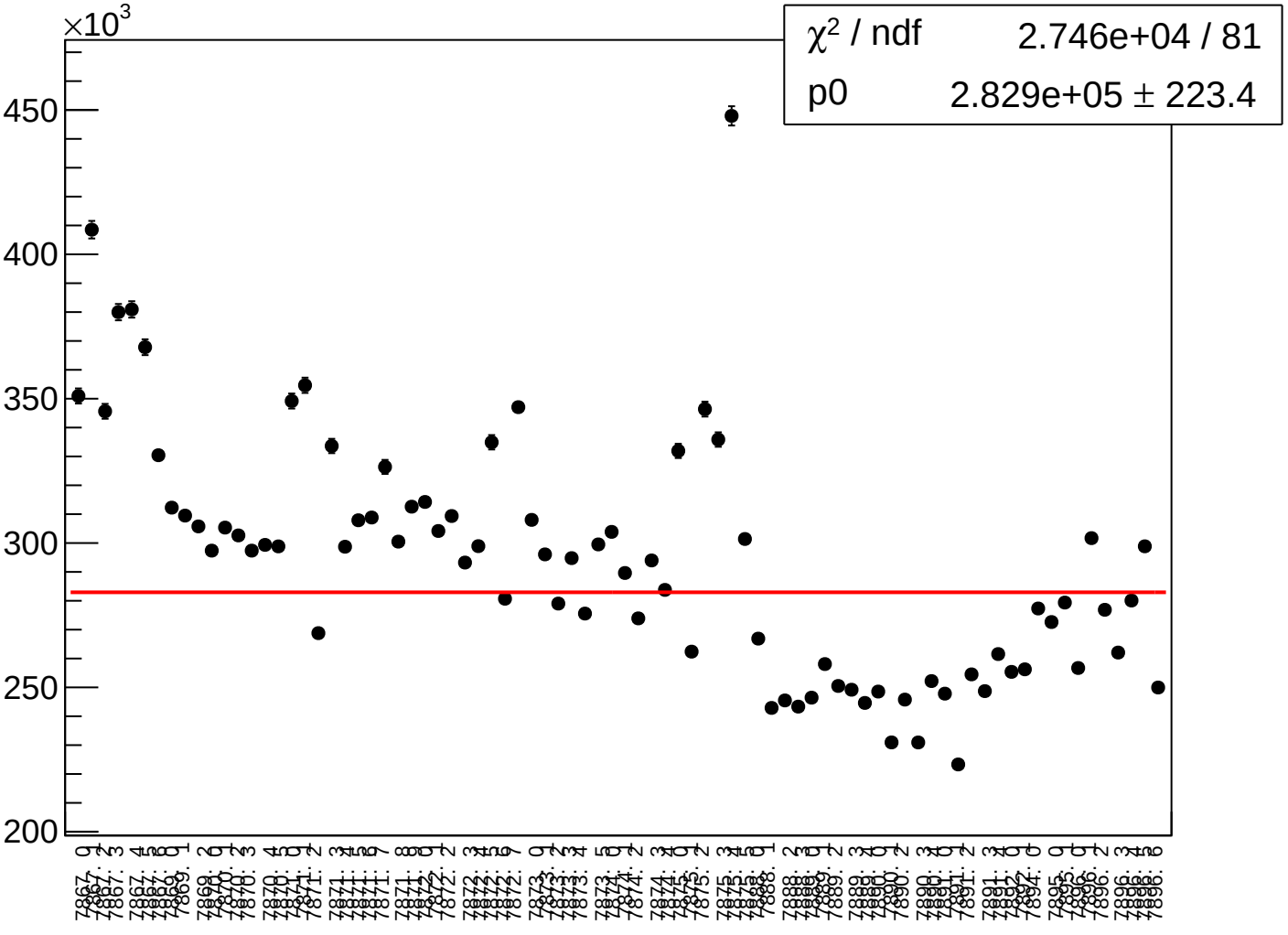

diff_bpm1p03aY_rms vs run
χ² / ndf 2.159e+04 / 81
p0 1512 ± 1.192
6000
5000
4000
3000
2000
1000

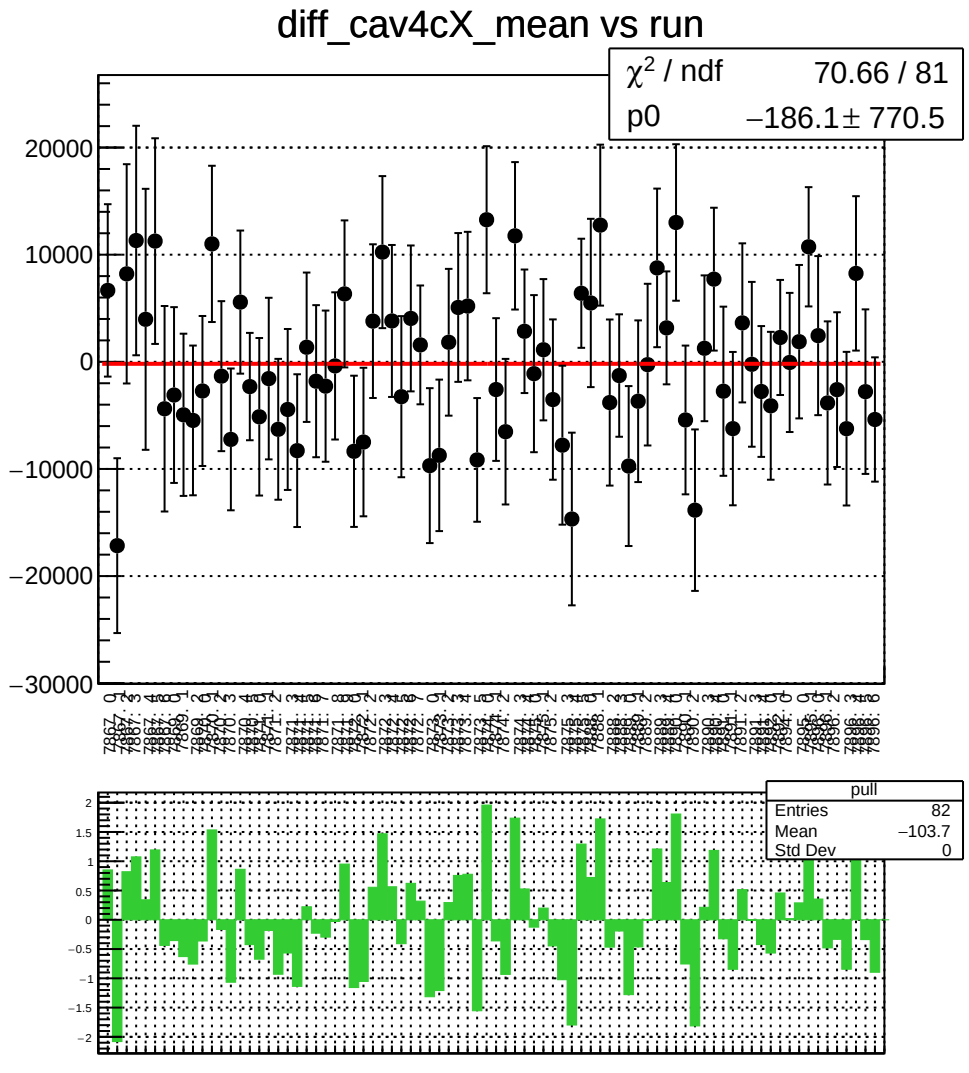

diff_cav4bX_mean vs run
χ² / ndf 69.81 / 81
p0 −624.8 ± 1933
pull
Entries 82
Mean −297.3
Std Dev 0

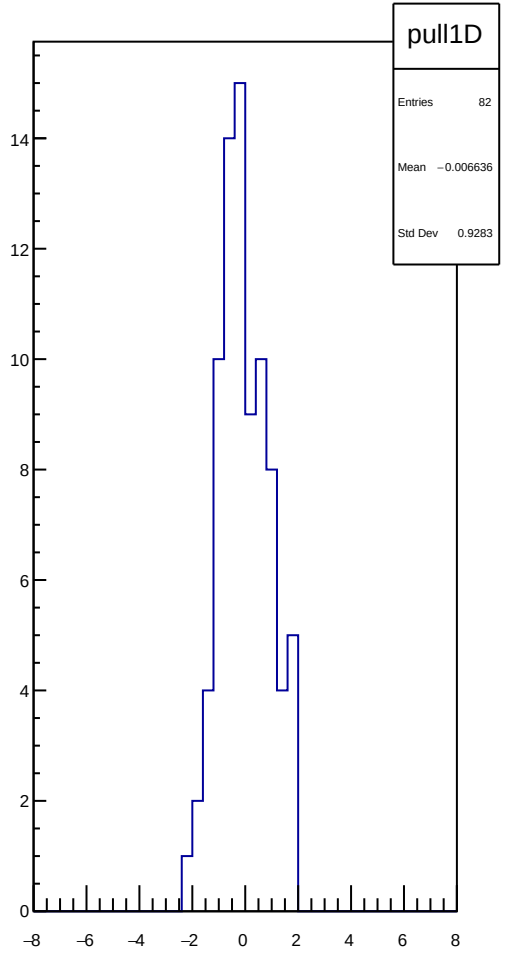

pull1D
Entries 82
Mean −0.002763
Std Dev 0.9227

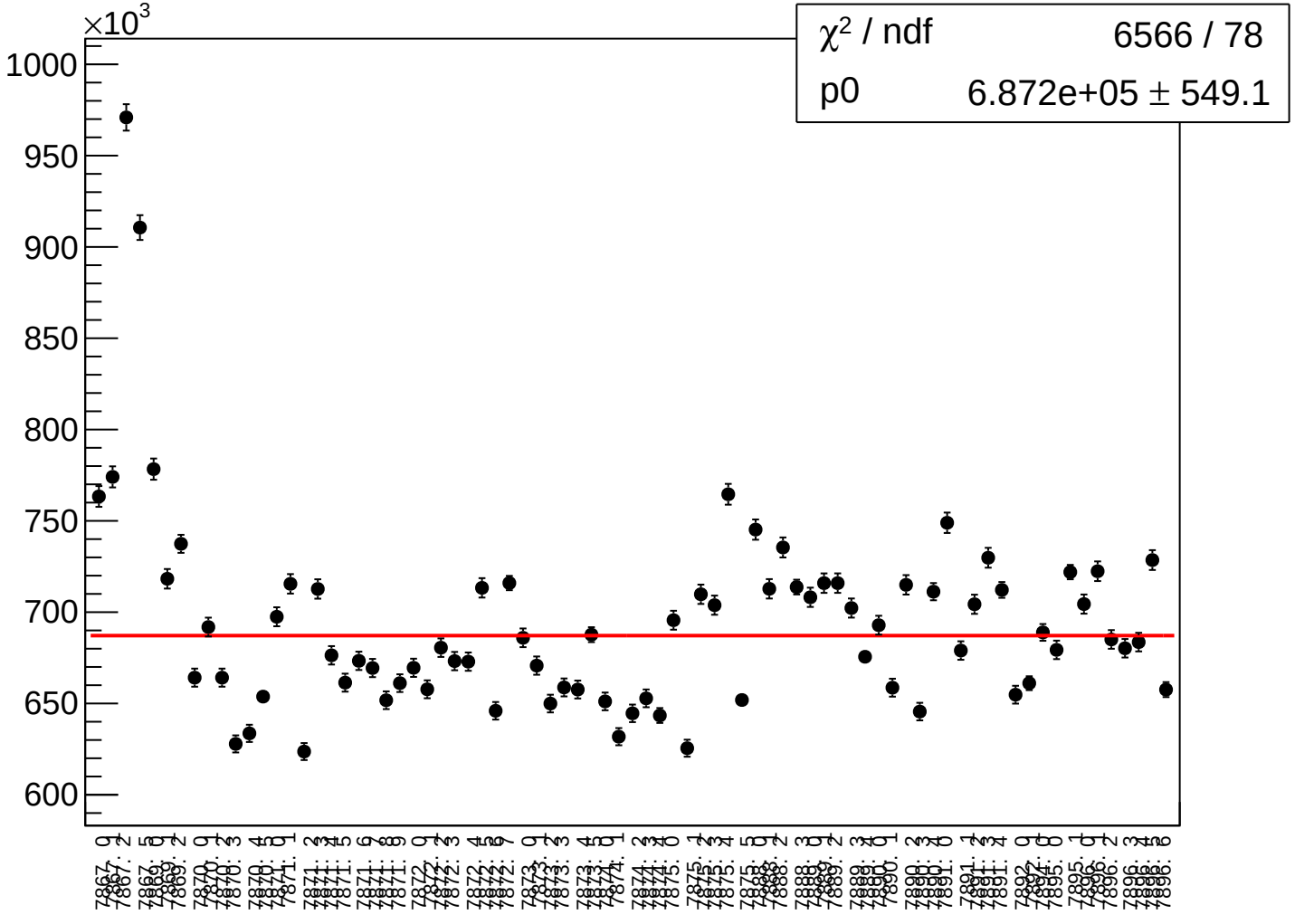

diff_cav4bY_mean vs run
χ² / ndf 60.18 / 81
p0 192.5 ± 315.9
pull
Entries 82
Mean −139.1
Std Dev 0

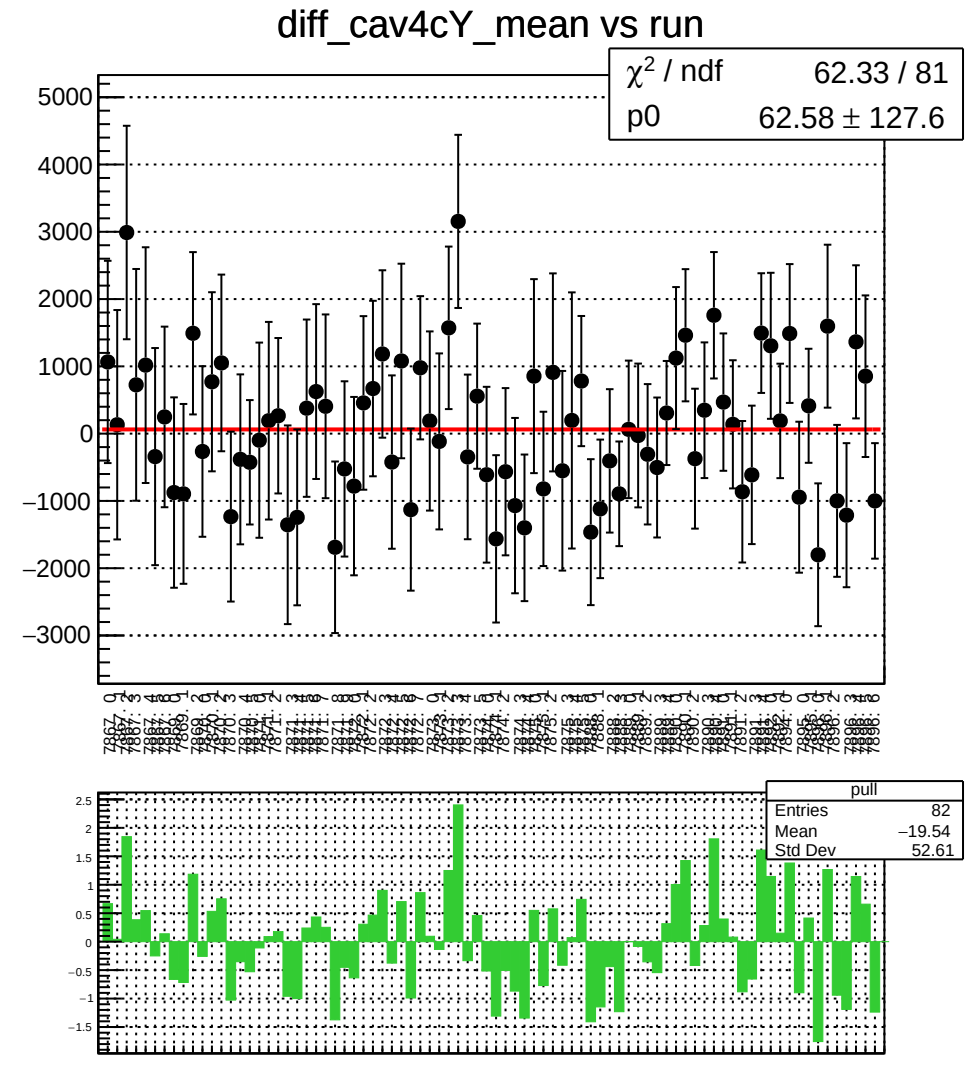

pull1D
Entries 82
Mean 0.004177
Std Dev 0.8567

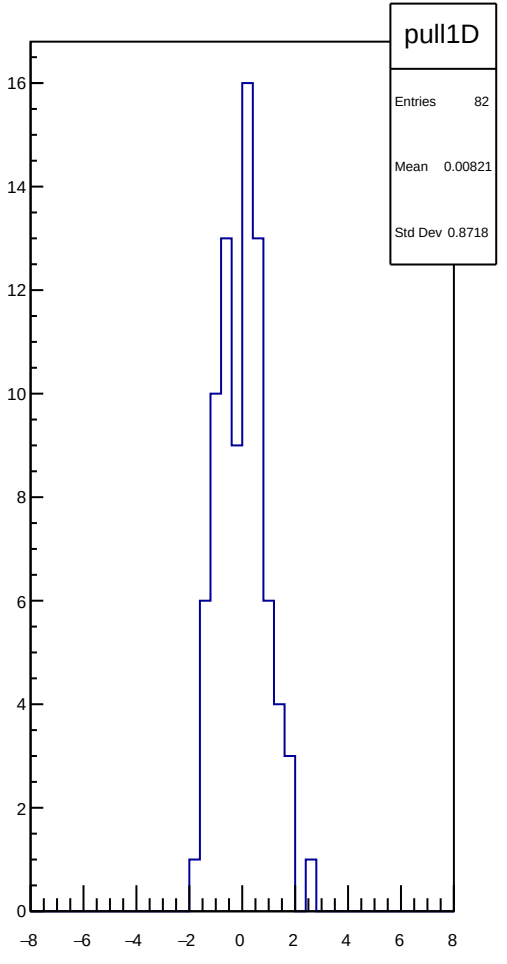

diff_cav4bY_rms vs run
×10^3
χ² / ndf 2.746e+04 / 81
p0 2.829e+05 ± 223.4
450
400
350
300
250
200

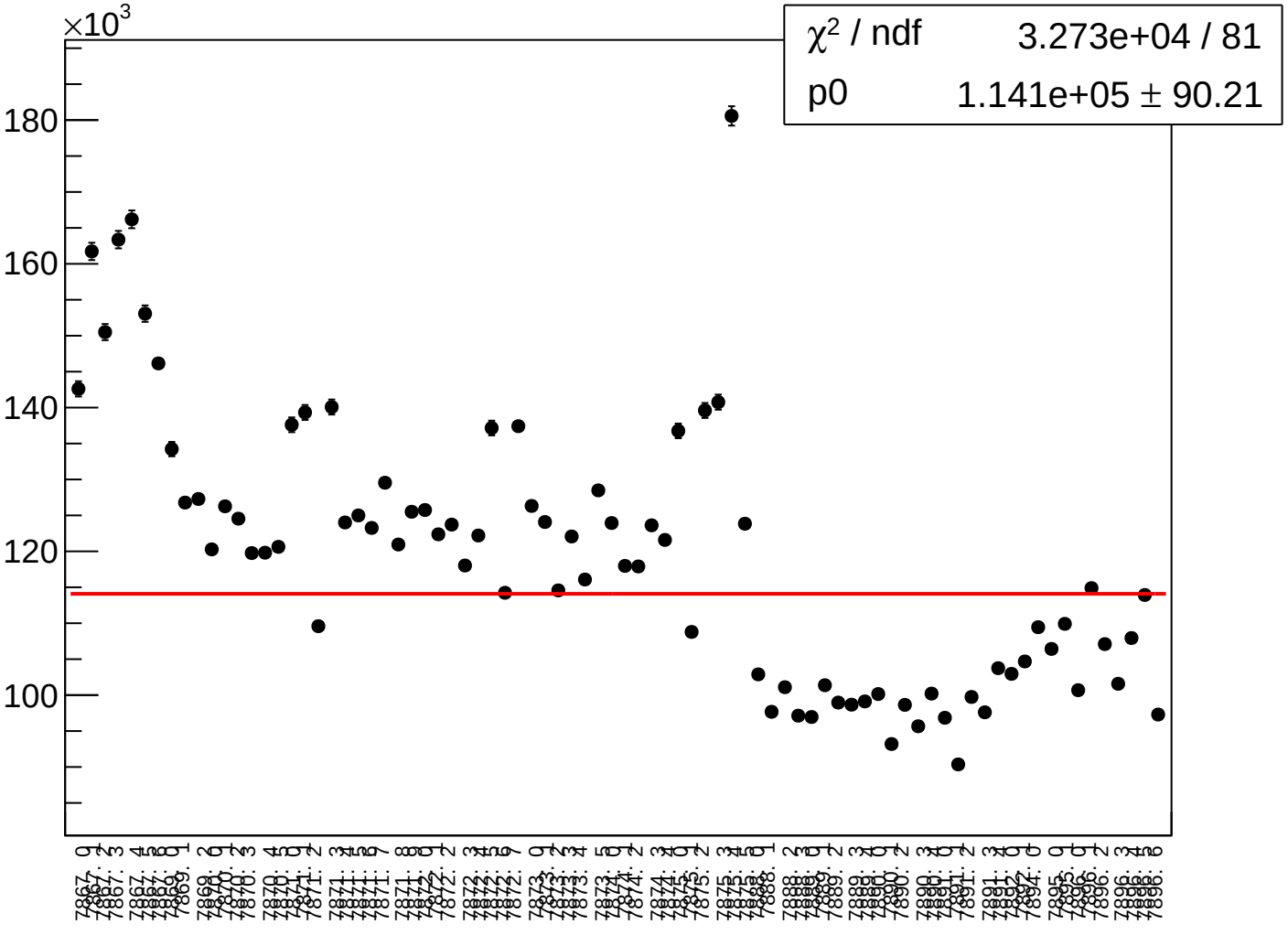

diff_cav4cX_mean vs run
χ² / ndf 70.66 / 81
p0 −186.1± 770.5
pull
Entries 82
Mean −103.7
Std Dev 0

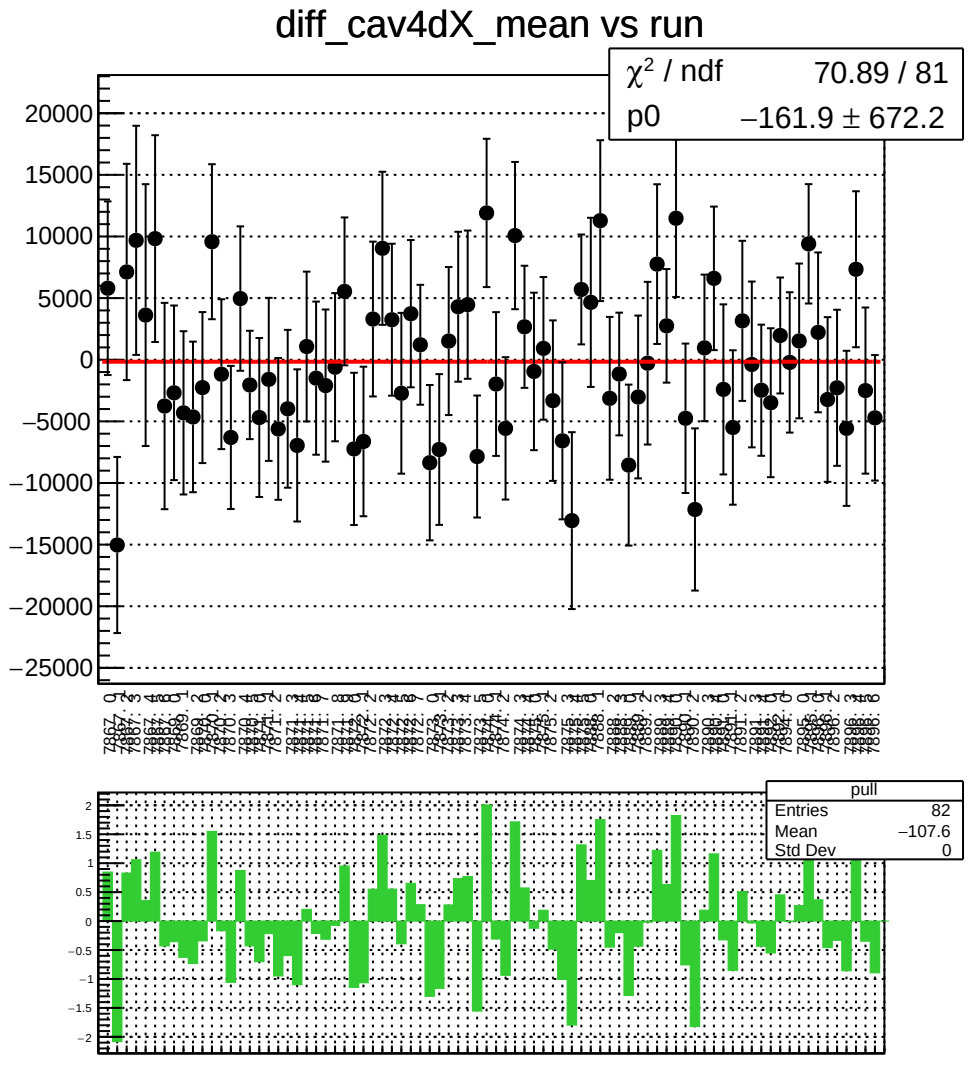

pull1D
Entries 82
Mean −0.006636
Std Dev 0.9283

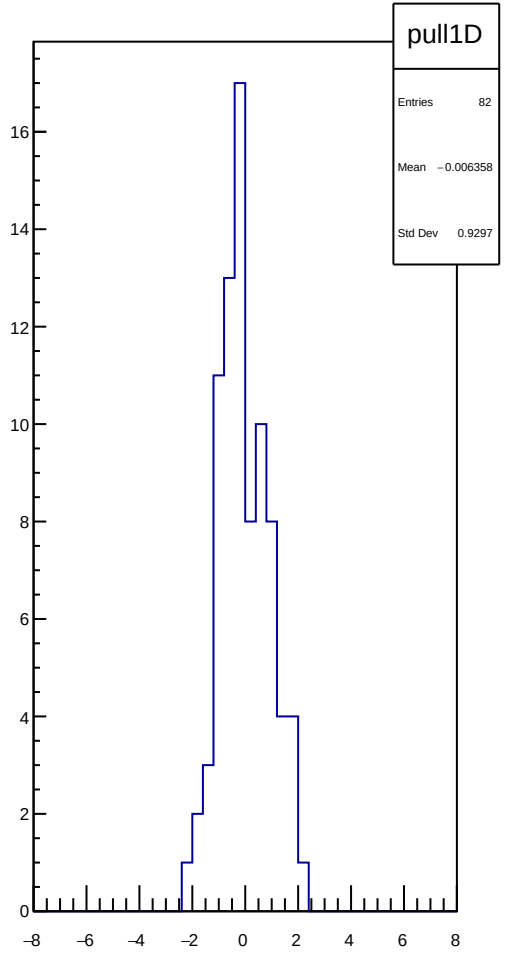

diff_cav4cX_rms vs run
×10^3
χ² / ndf 6566 / 78
p0 6.872e+05 ± 549.1
1000
950
900
850
800
750
700
650
600

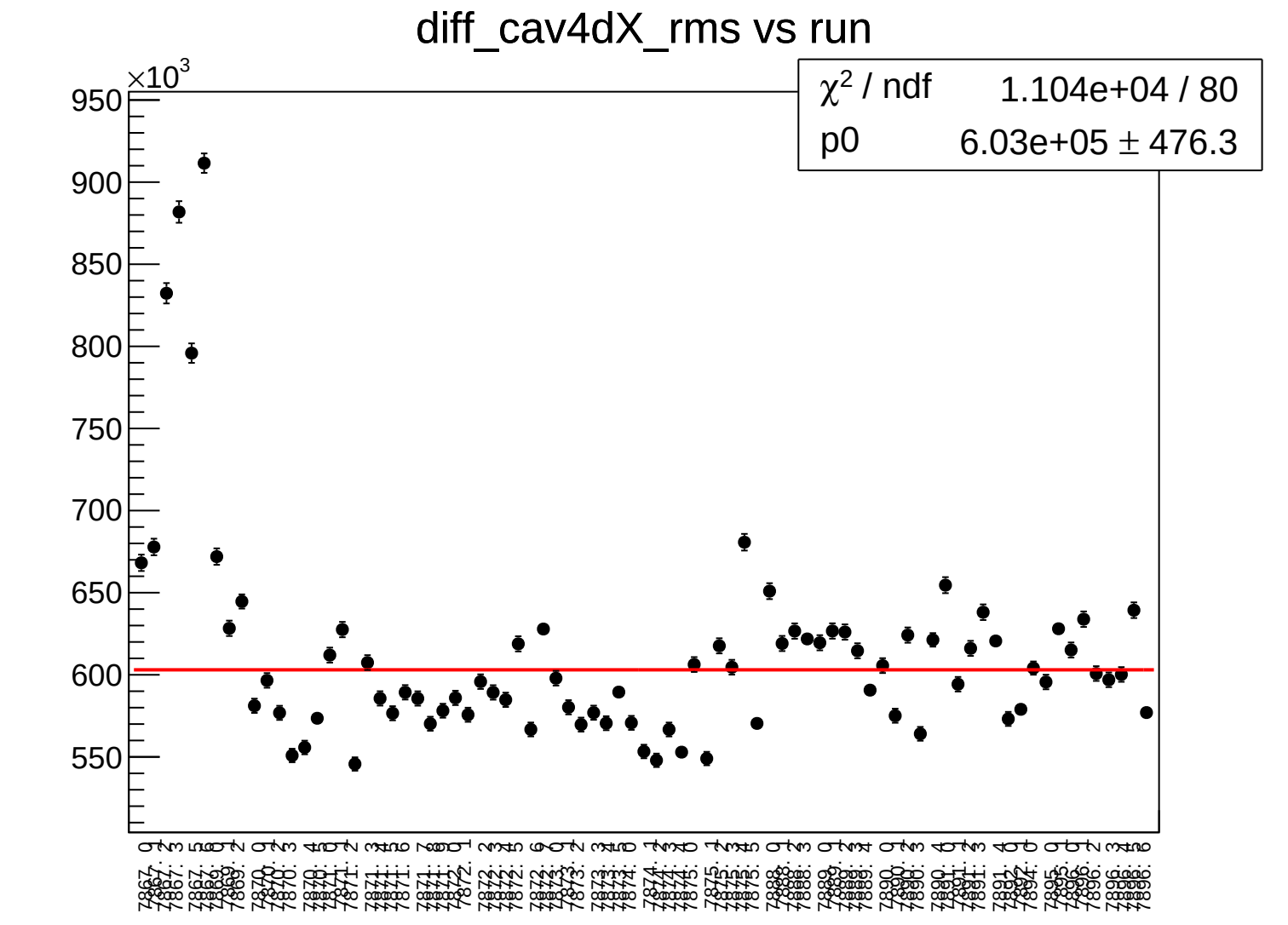

diff_cav4cY_mean vs run
χ^2 / ndf 62.33 / 81
p0 62.58 ± 127.6
pull
Entries 82
Mean −19.54
Std Dev 52.61

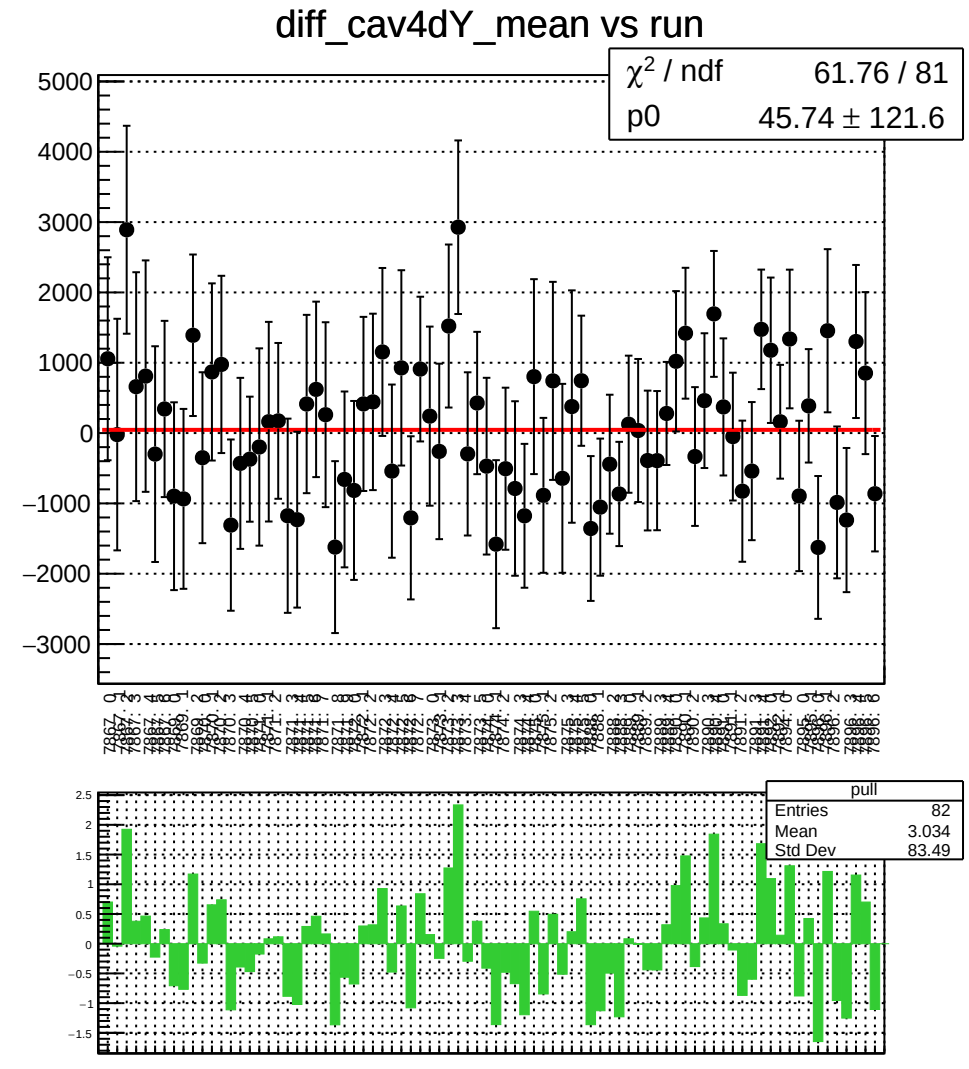

pull1D
Entries 82
Mean 0.00821
Std Dev 0.8718

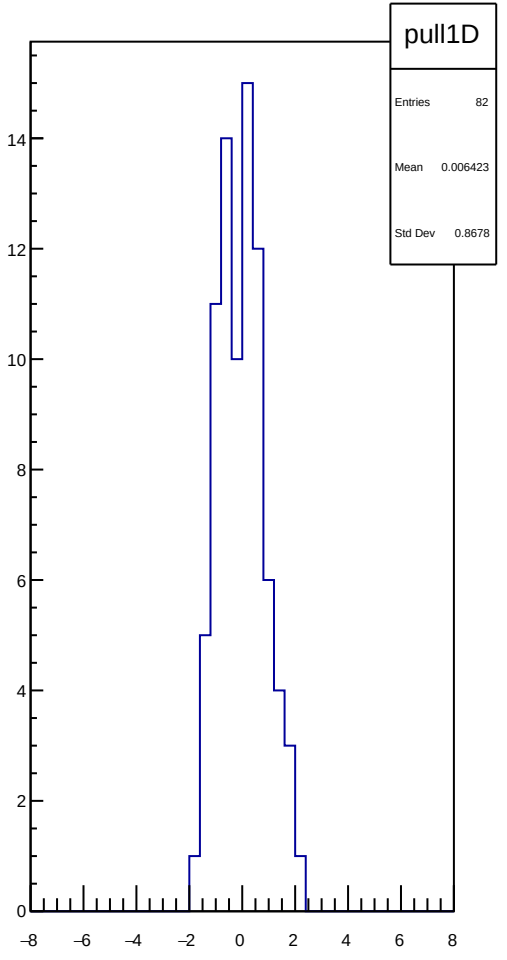

diff_cav4cY_rms vs run
×10^3
χ² / ndf 3.273e+04 / 81
p0 1.141e+05 ± 90.21
180
160
140
120
100

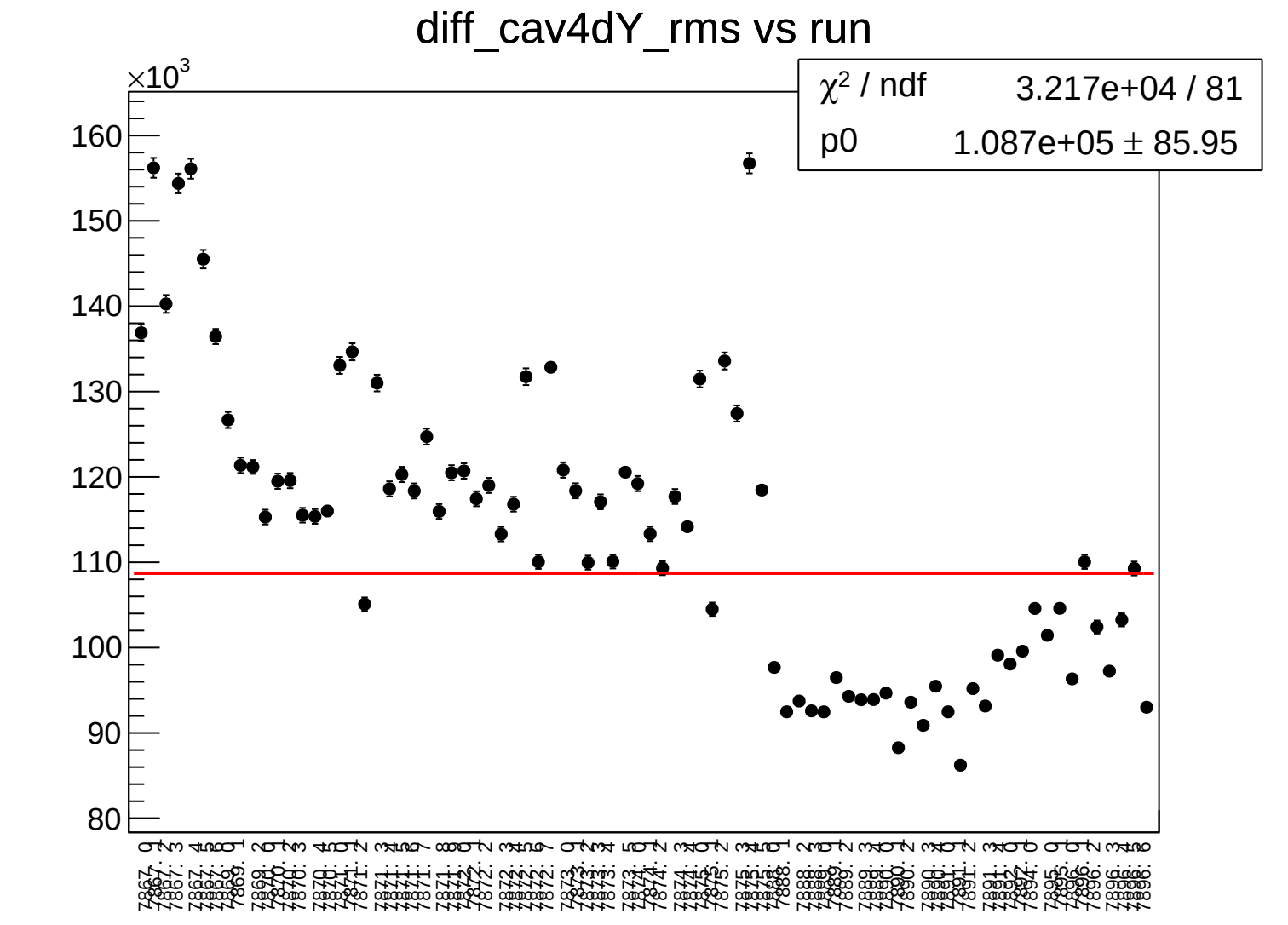

diff_cav4dX_mean vs run
χ² / ndf 70.89 / 81
p0 −161.9 ± 672.2
pull
Entries 82
Mean −107.6
Std Dev 0

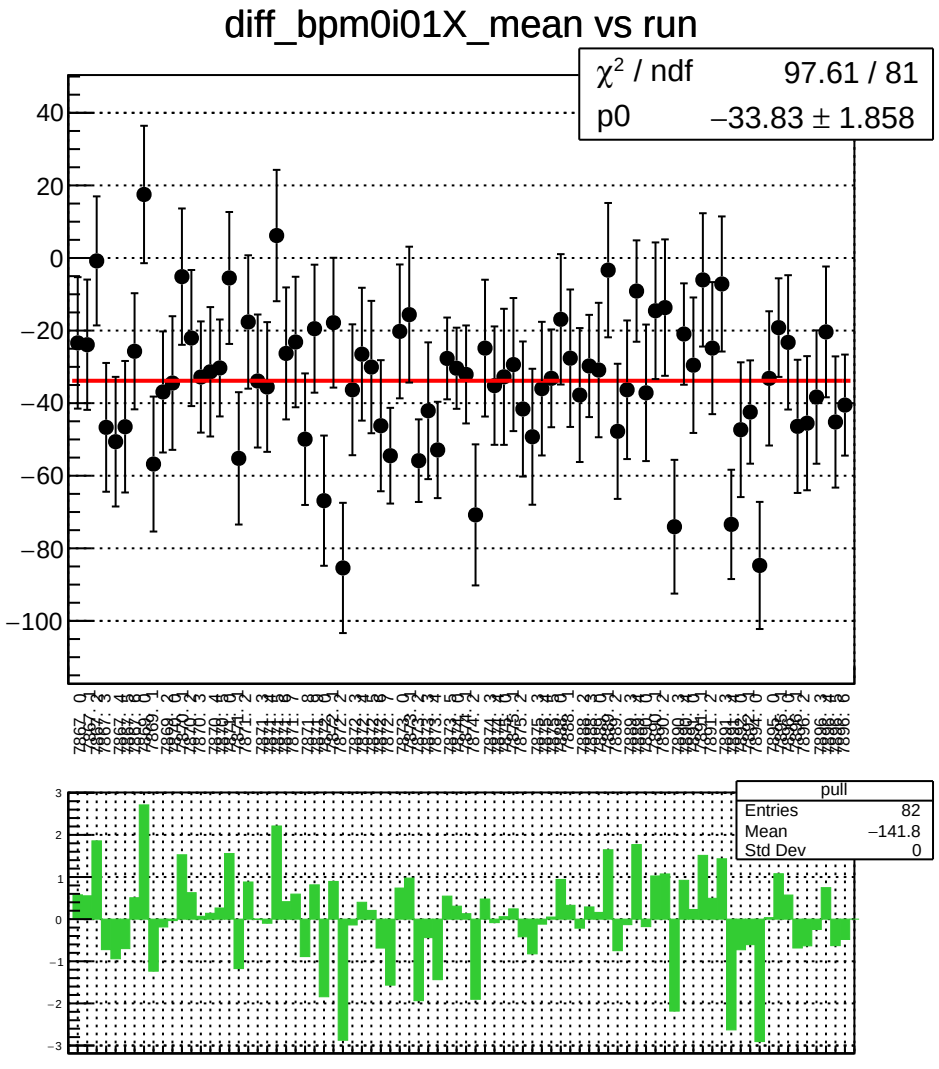

pull1D
Entries 82
Mean −0.006358
Std Dev 0.9297

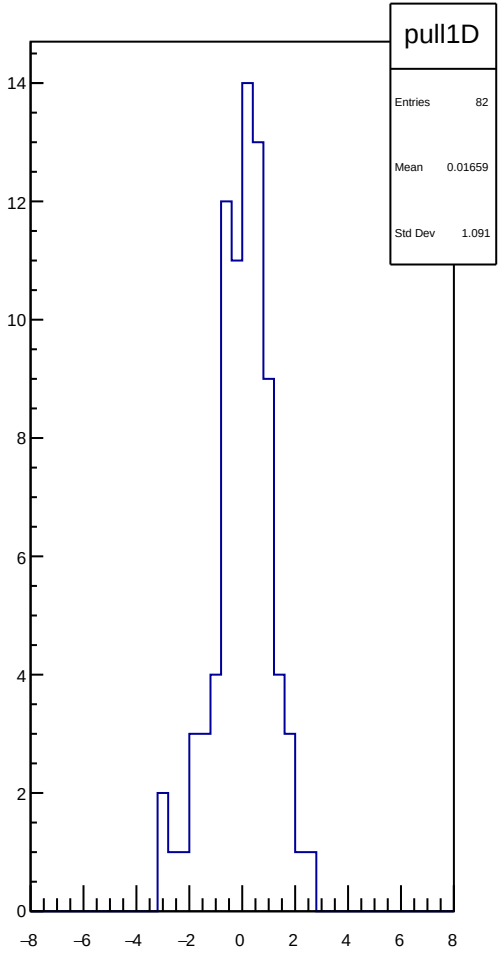

diff_cav4dX_rms vs run
χ^2 / ndf 1.104e+04 / 80
p0 6.03e+05 ± 476.3
×10^3
950
900
850
800
750
700
650
600
550

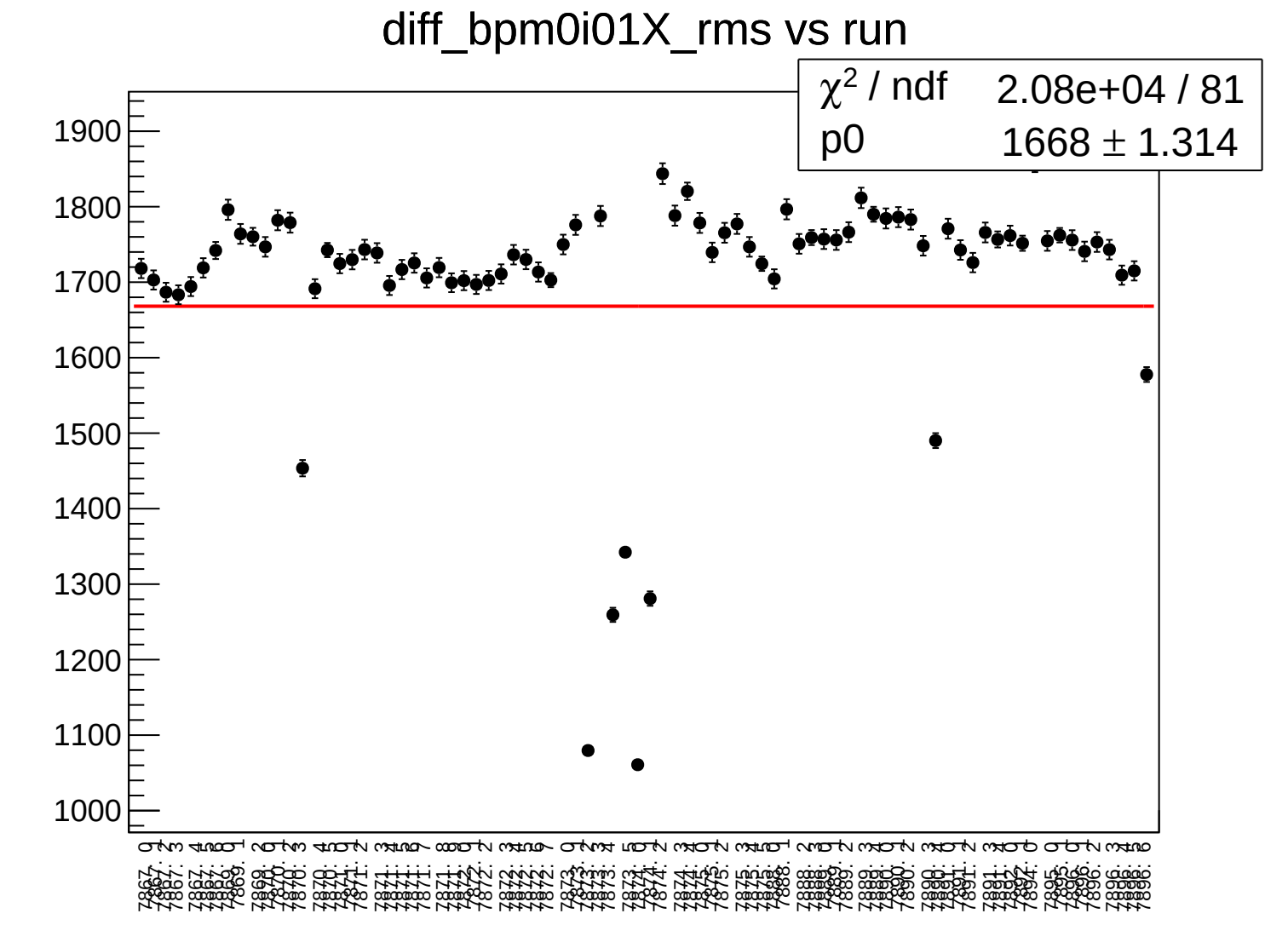

diff_cav4dY_mean vs run
χ² / ndf 61.76 / 81
p0 45.74 ± 121.6
pull
Entries 82
Mean 3.034
Std Dev 83.49

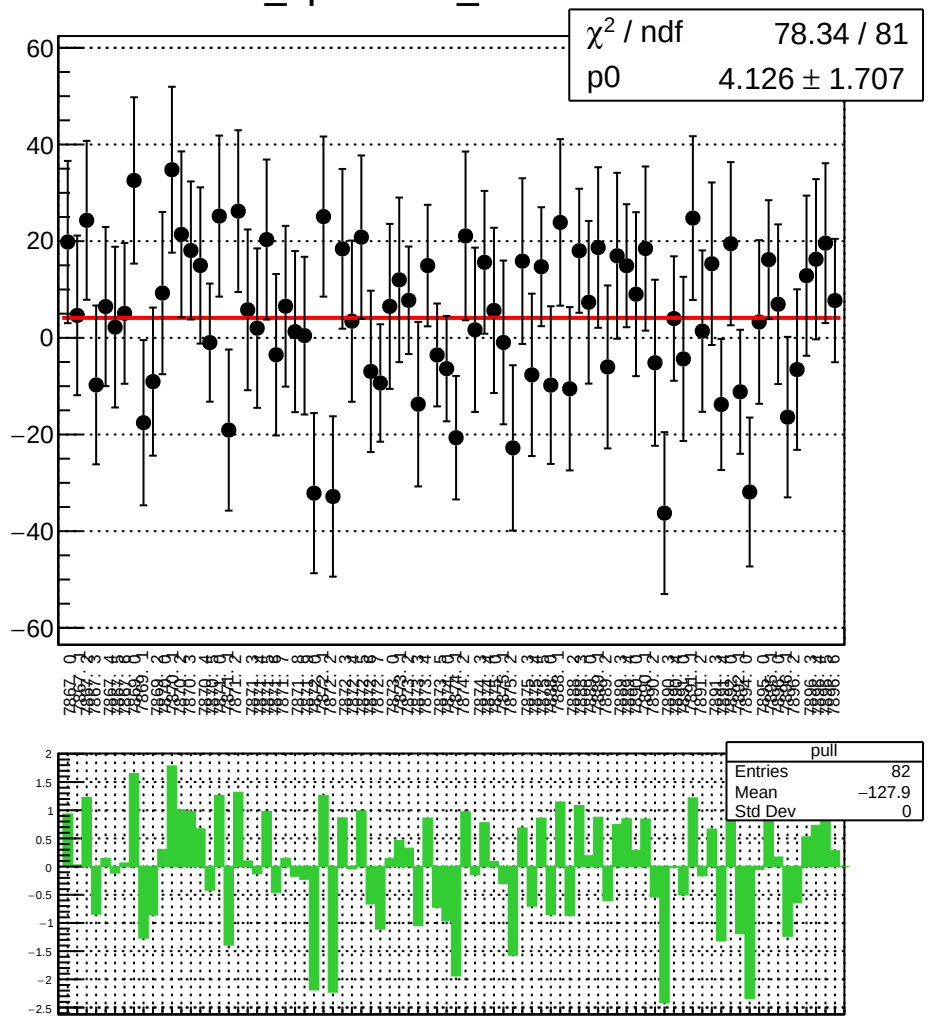

pull1D
Entries 82
Mean 0.006423
Std Dev 0.8678

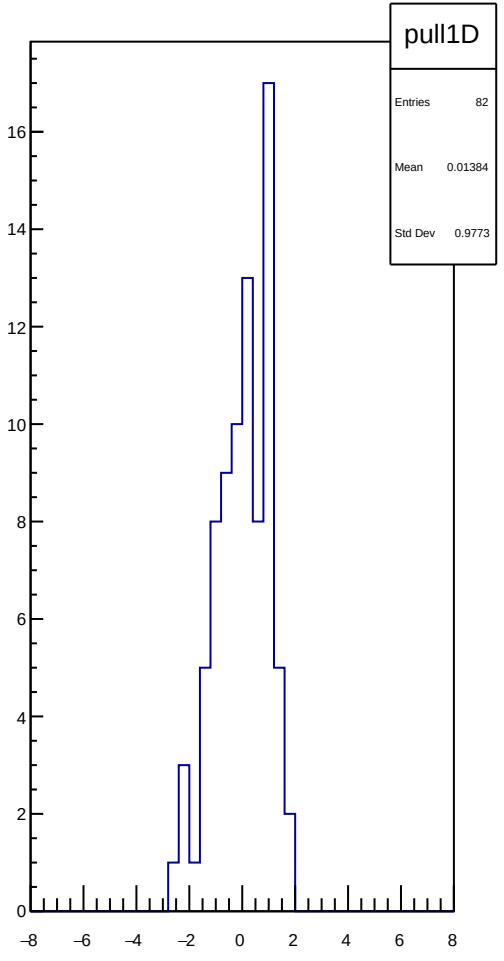

diff_cav4dY_rms vs run
×10^3
χ² / ndf 3.217e+04 / 81
p0 1.087e+05 ± 85.95
160
150
140
130
120
110
100
90
80

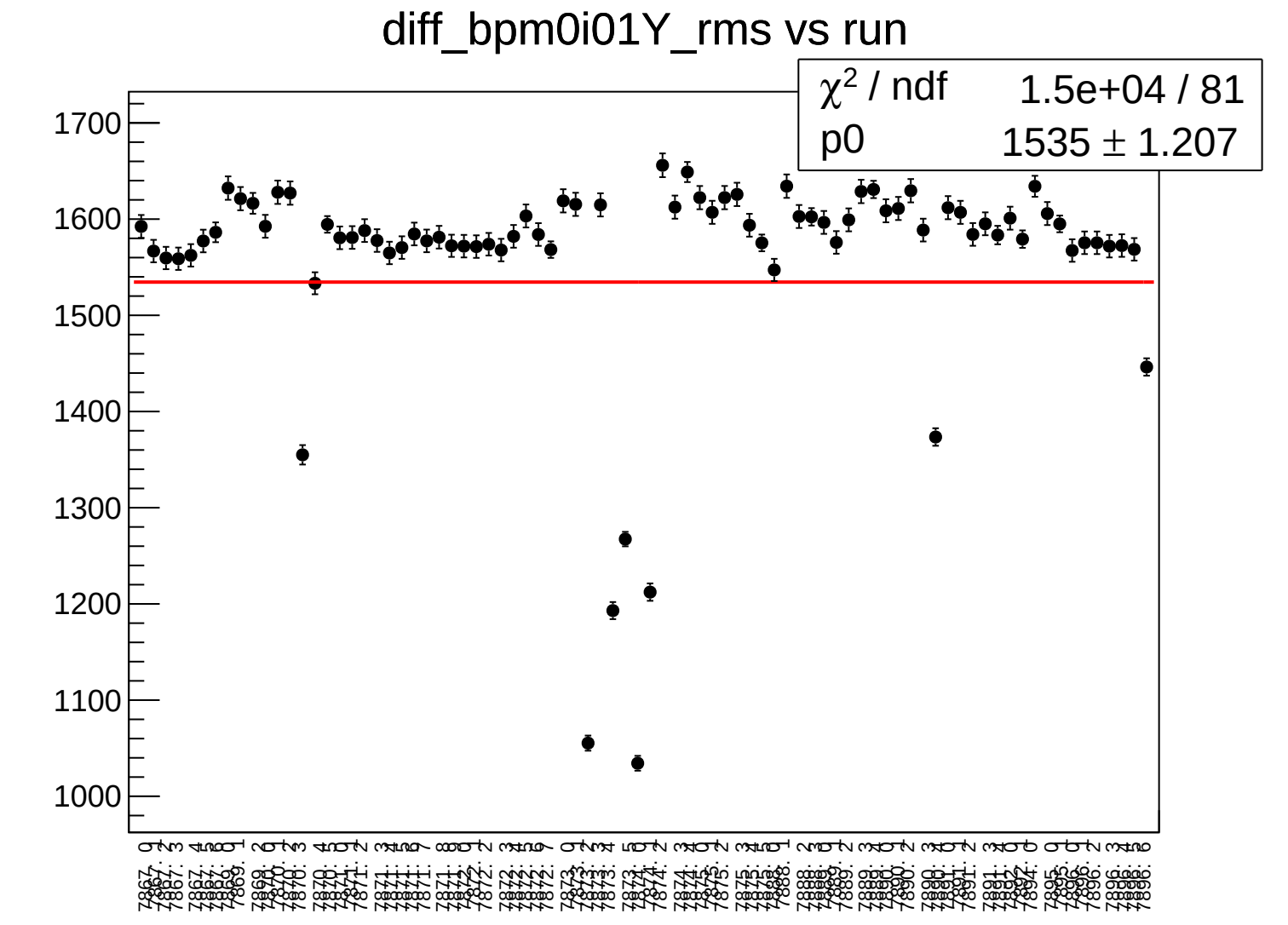

diff_bpm0i01X_mean vs run
χ² / ndf 97.61 / 81
p0 −33.83 ± 1.858
pull
Entries 82
Mean −141.8
Std Dev 0

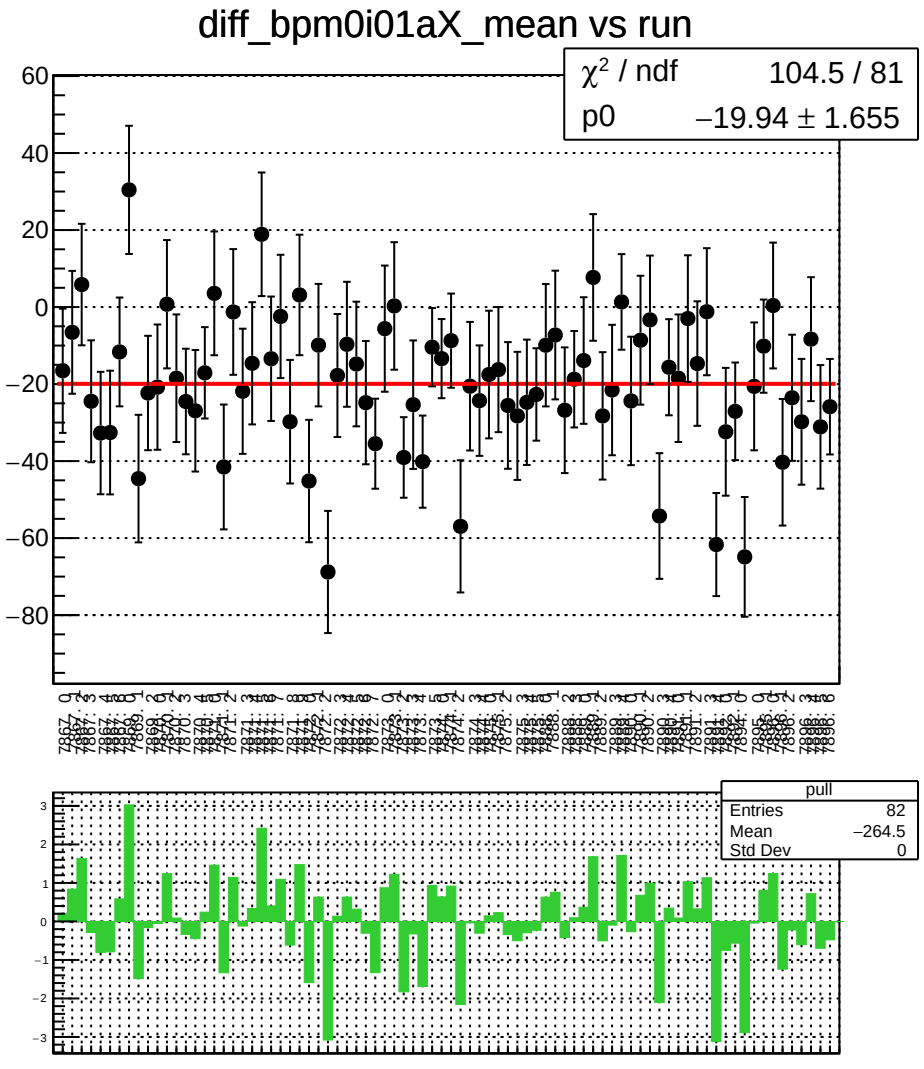

pull1D
Entries 82
Mean 0.01659
Std Dev 1.091

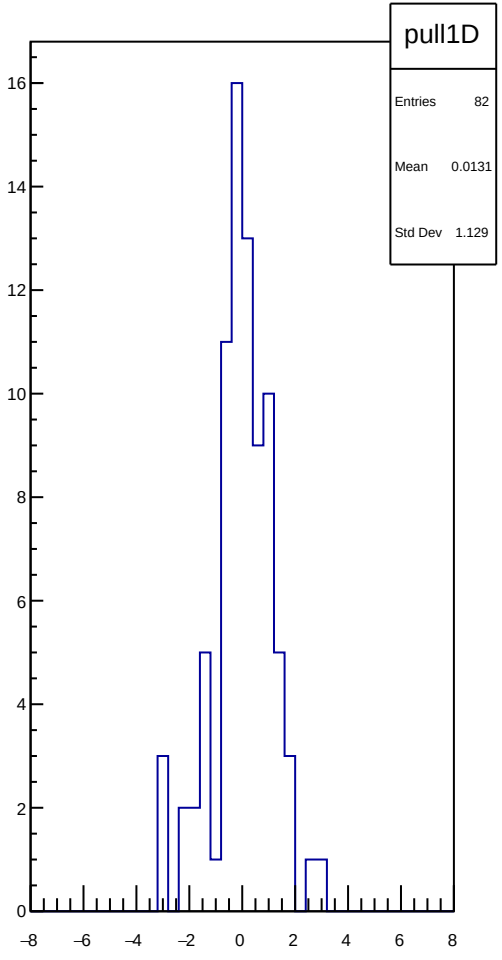

diff_bpm0i01X_rms vs run
χ² / ndf 2.08e+04 / 81
p0 1668 ± 1.314
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

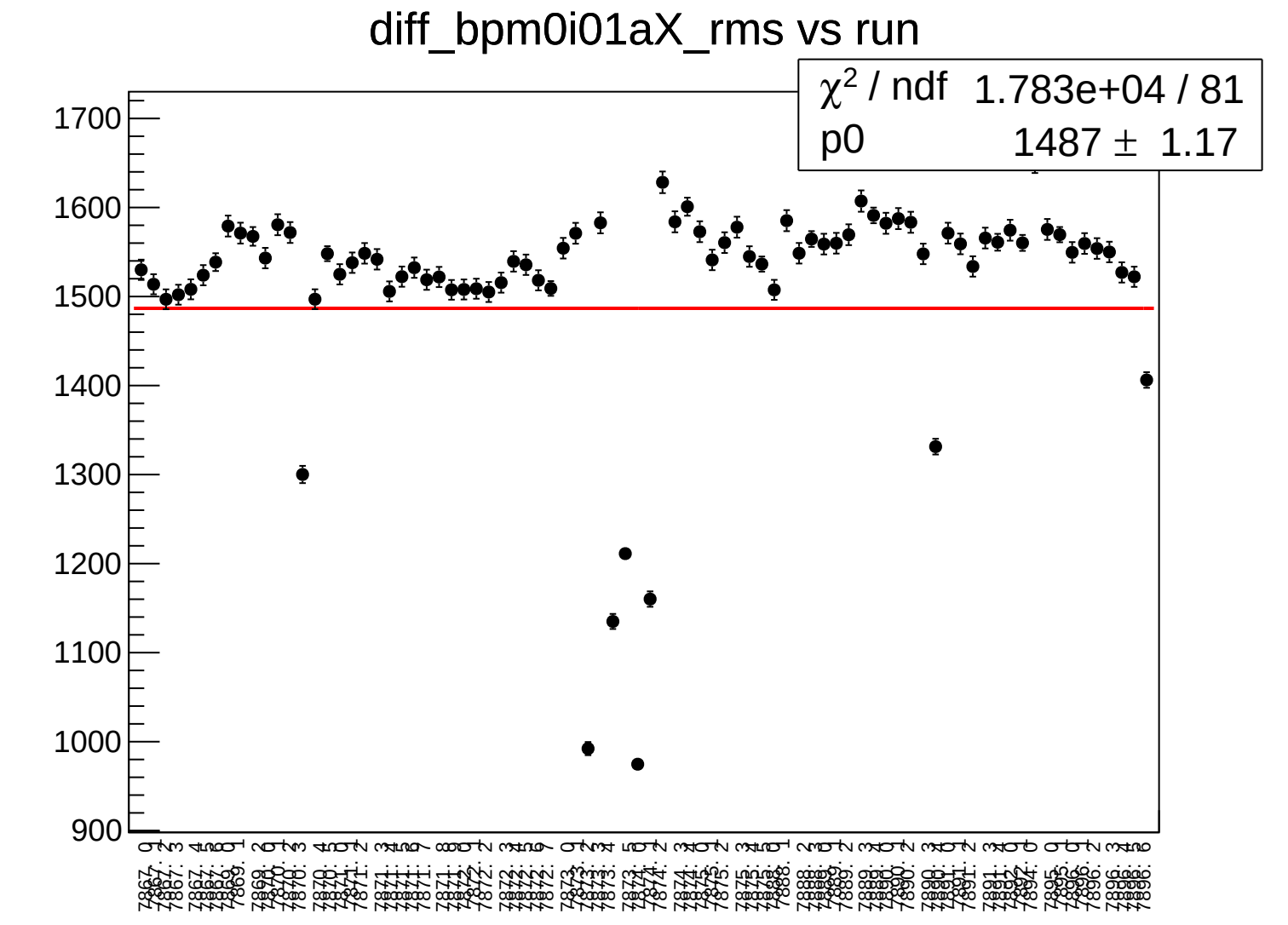

diff_bpm0i01Y_mean vs run
χ² / ndf 78.34 / 81
p0 4.126 ± 1.707
pull
Entries 82
Mean −127.9
Std Dev 0

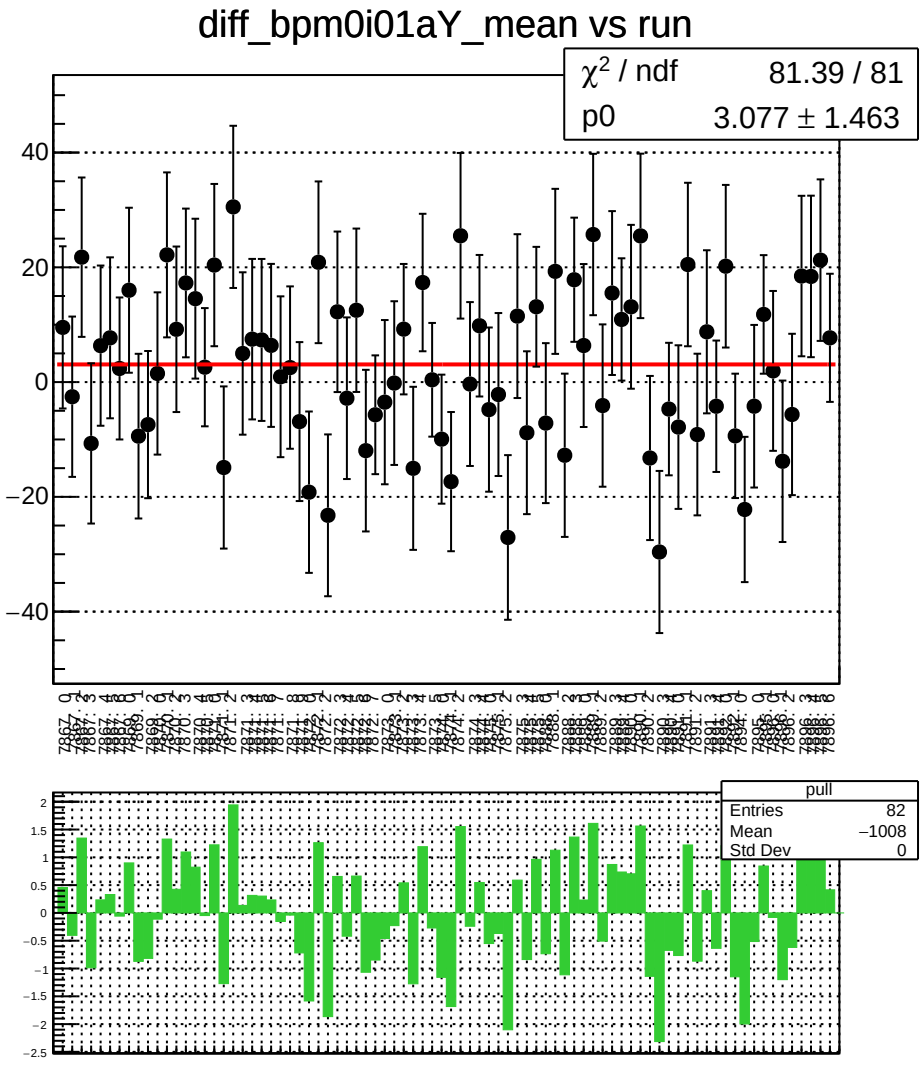

pull1D
Entries 82
Mean 0.01384
Std Dev 0.9773

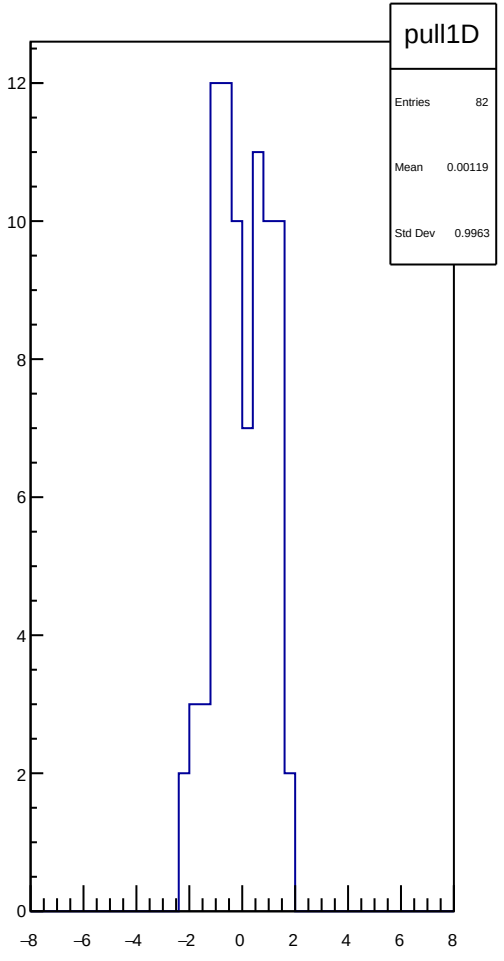

diff_bpm0i01Y_rms vs run
χ² / ndf 1.5e+04 / 81
p0 1535 ± 1.207
1700
1600
1500
1400
1300
1200
1100
1000

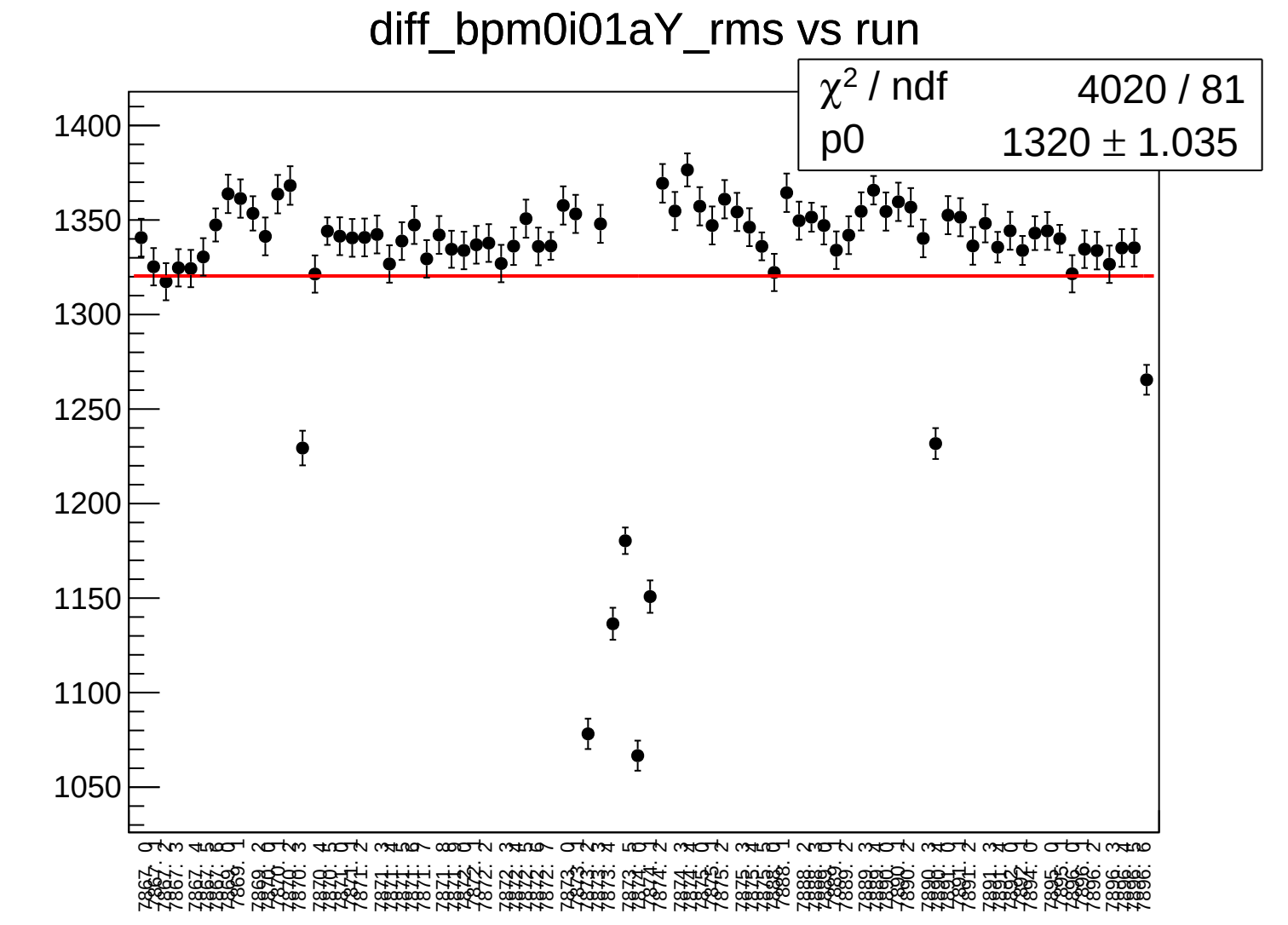

diff_bpm0i01aX_mean vs run
χ² / ndf 104.5 / 81
p0 −19.94 ± 1.655
pull
Entries 82
Mean −264.5
Std Dev 0

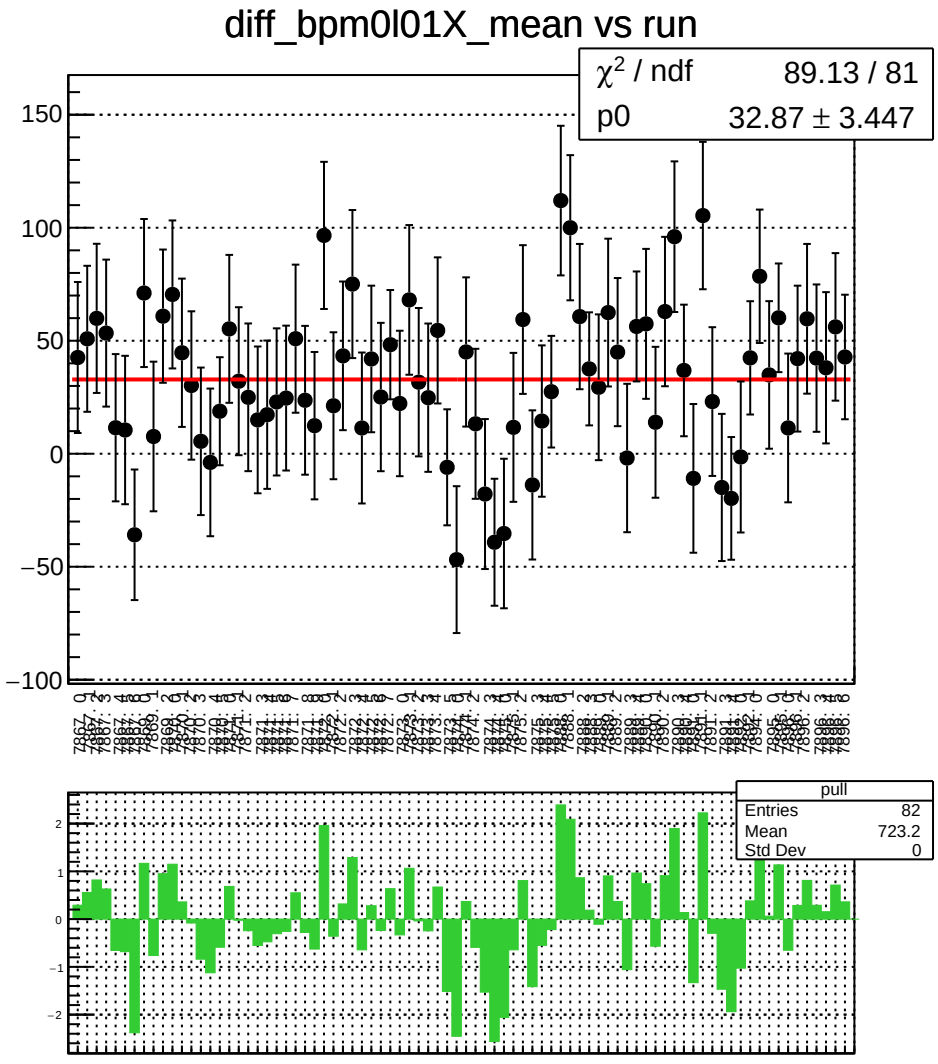

pull1D
Entries 82
Mean 0.0131
Std Dev 1.129

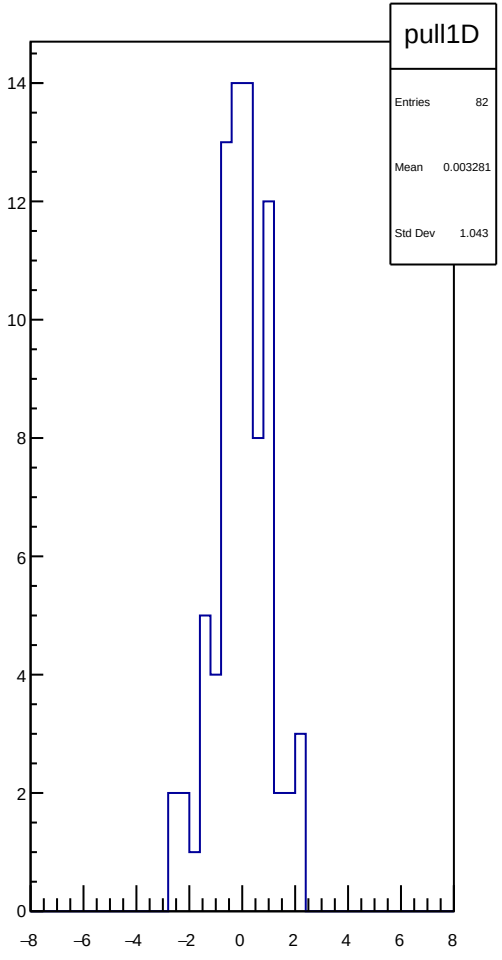

diff_bpm0i01aX_rms vs run
χ² / ndf 1.783e+04 / 81
p0 1487 ± 1.17
1700
1600
1500
1400
1300
1200
1100
1000
900

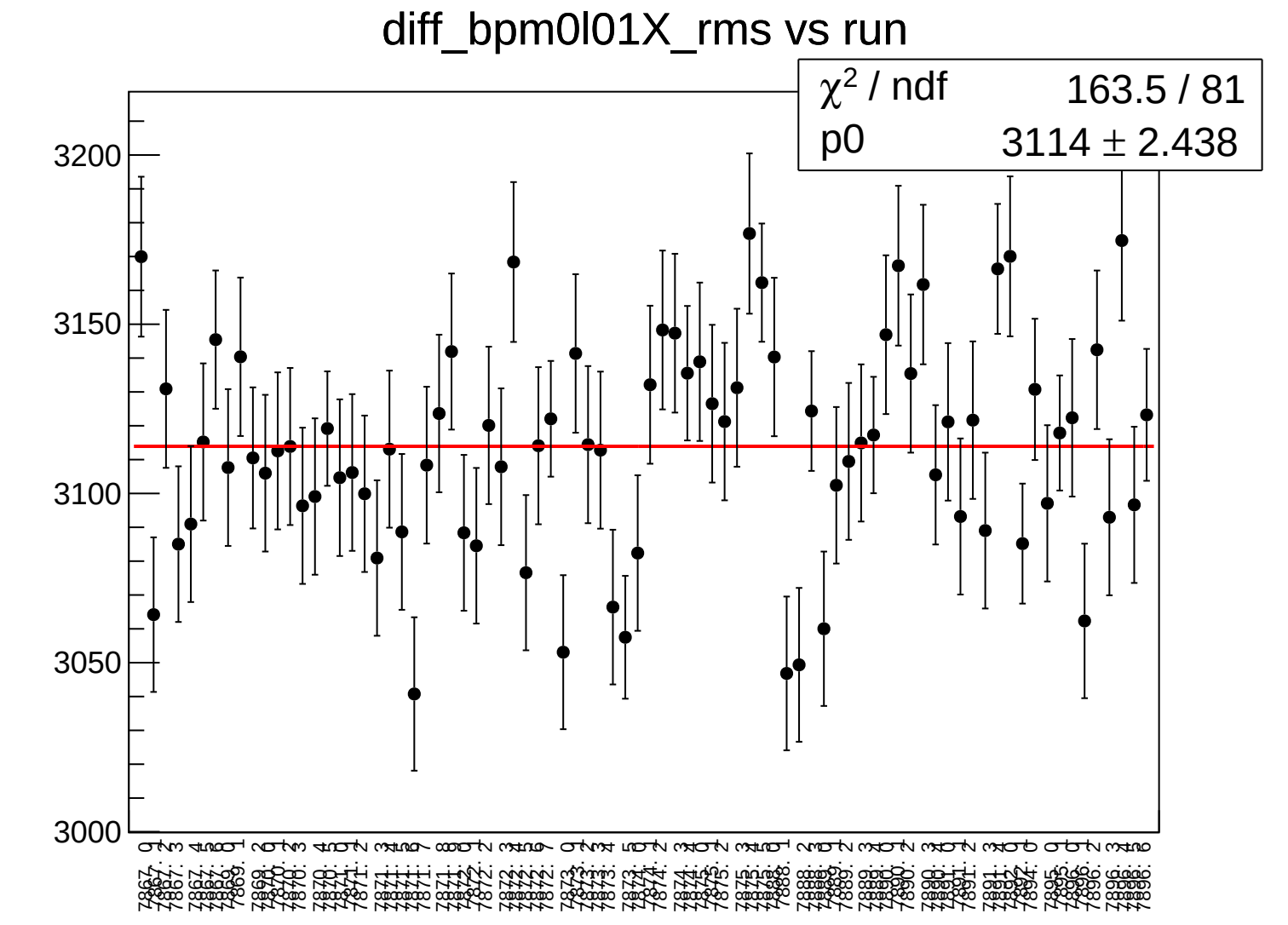

diff_bpm0i01aY_mean vs run
χ² / ndf 81.39 / 81
p0 3.077 ± 1.463
pull
Entries 82
Mean −1008
Std Dev 0

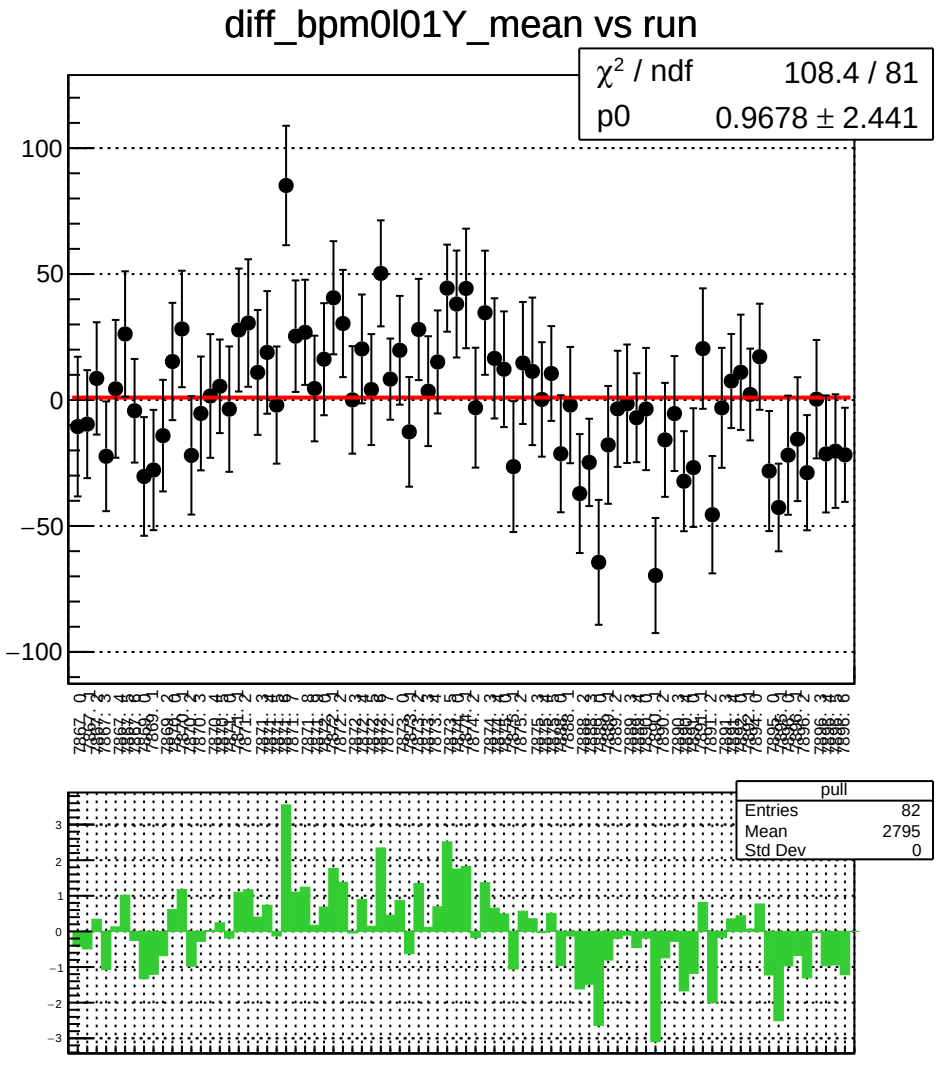

pull1D
Entries 82
Mean 0.00119
Std Dev 0.9963

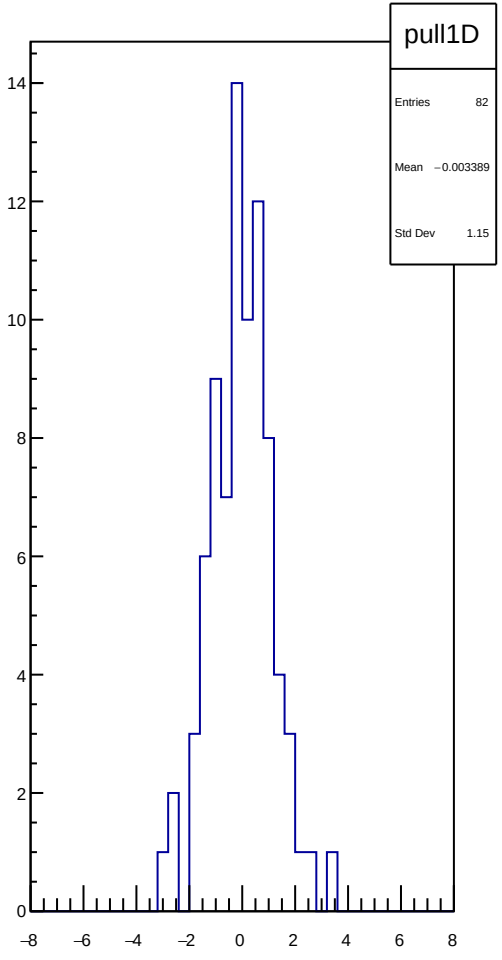

diff_bpm0i01aY_rms vs run
χ² / ndf 4020 / 81
p0 1320 ± 1.035
1400
1350
1300
1250
1200
1150
1100
1050

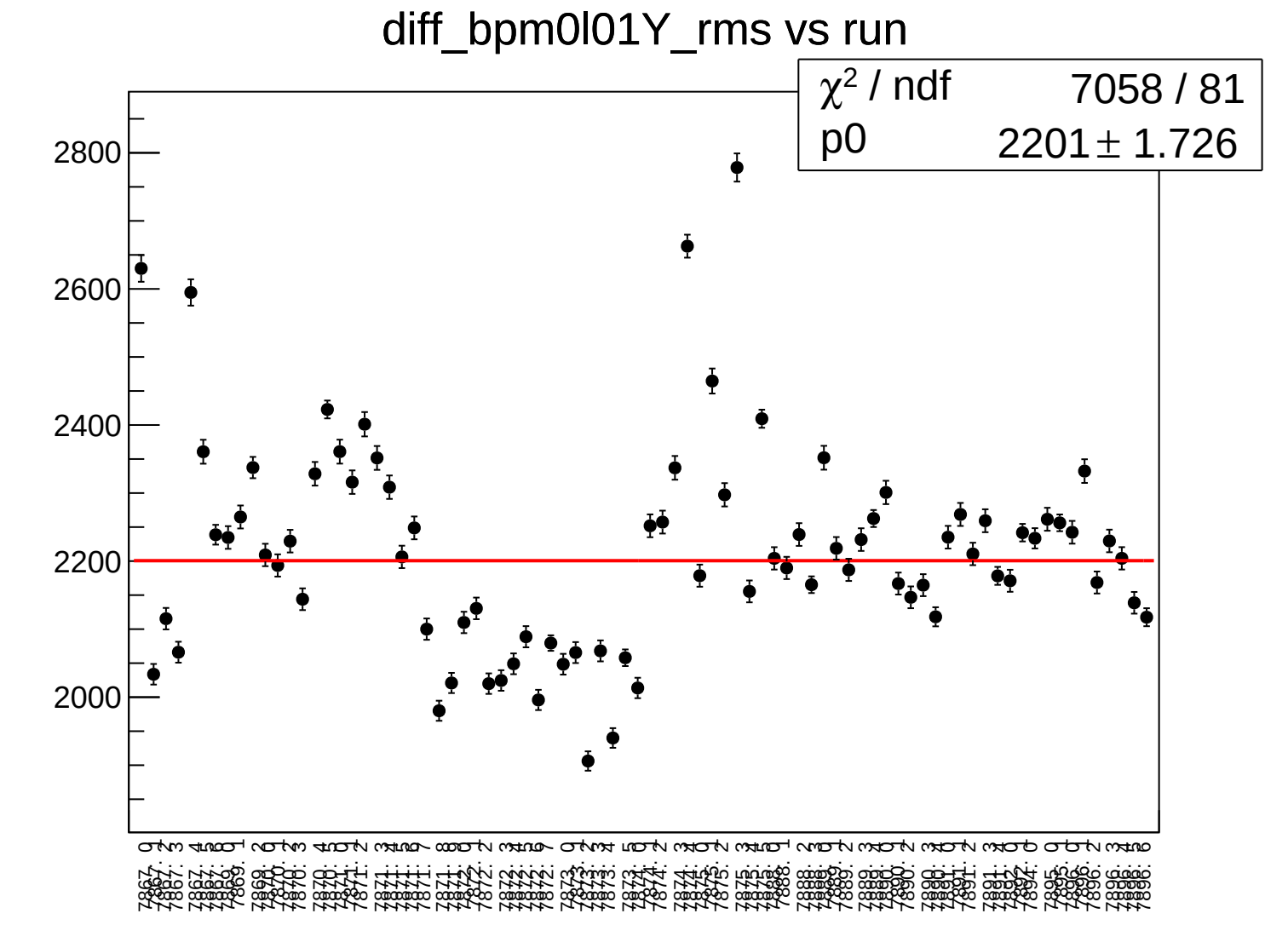

diff_bpm0l01X_mean vs run
χ^2 / ndf 89.13 / 81
p0 32.87 ± 3.447
150
100
50
0
−50
−100
pull
Entries 82
Mean 723.2
Std Dev 0
2
1
0
−1
−2

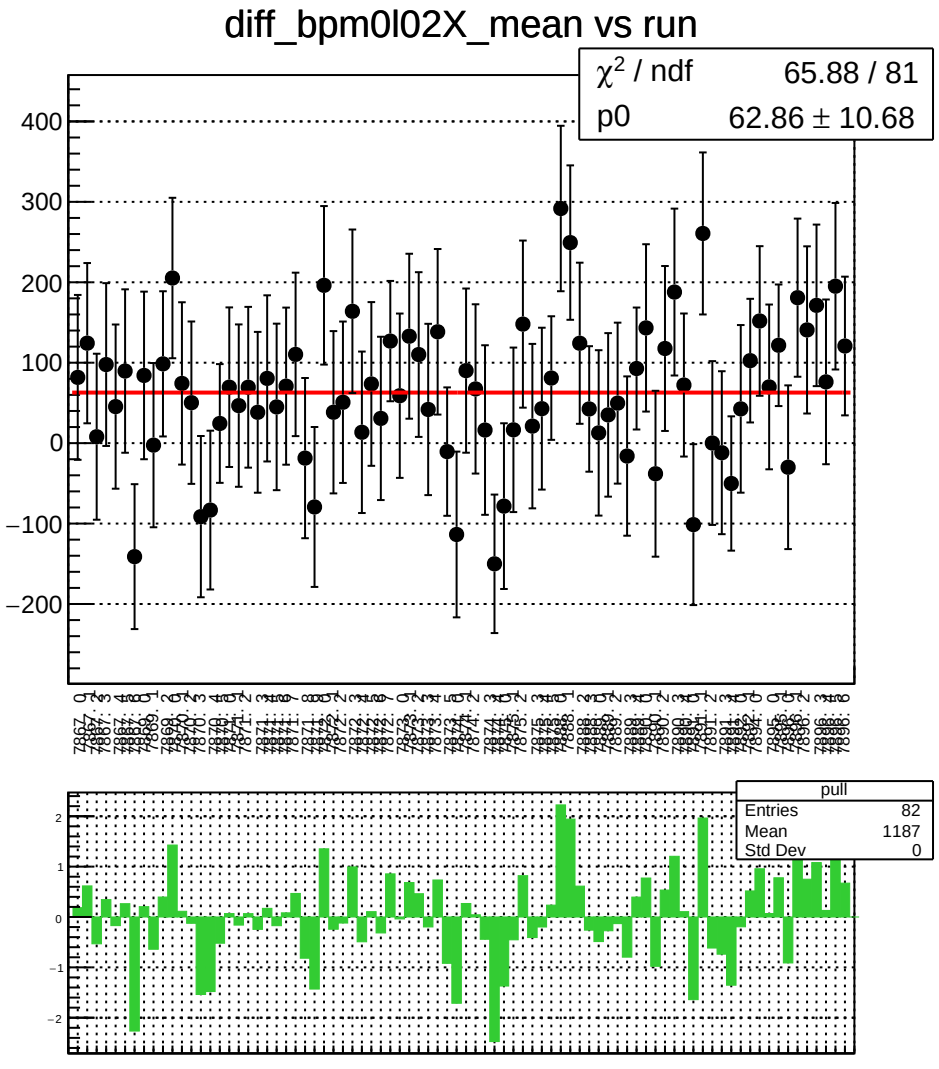

pull1D
Entries 82
Mean 0.003281
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

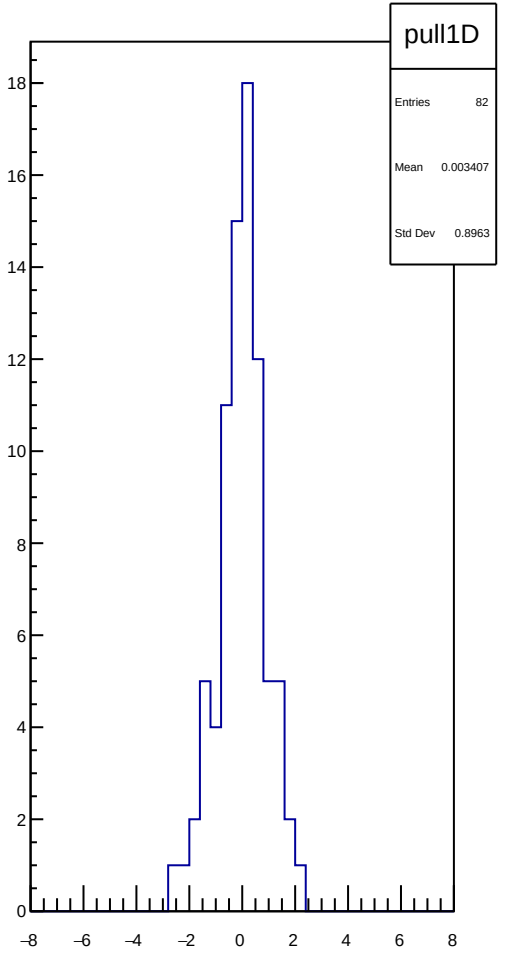

diff_bpm0l01X_rms vs run
χ² / ndf 163.5 / 81
p0 3114 ± 2.438
3200
3150
3100
3050
3000

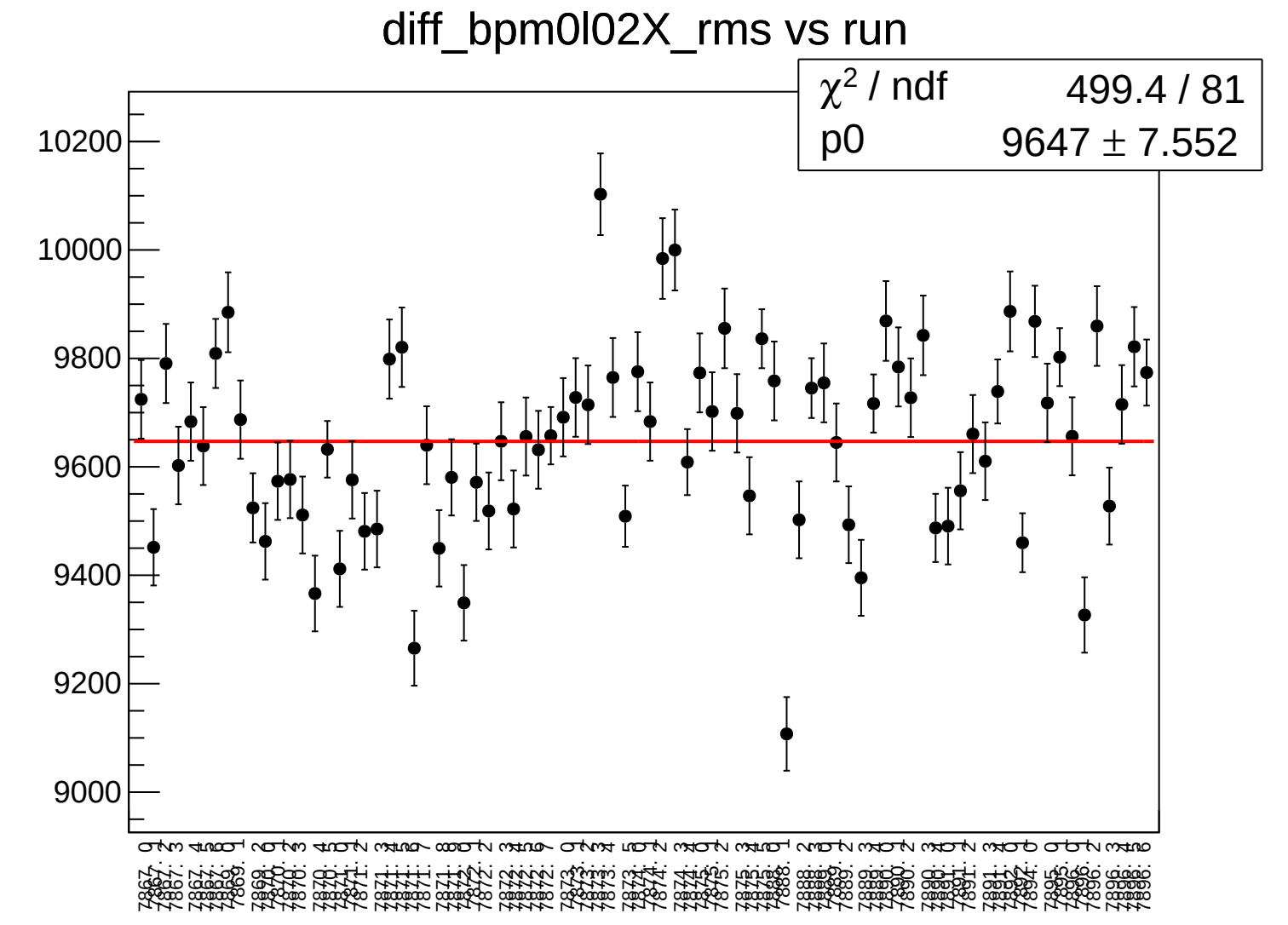

diff_bpm0l01Y_mean vs run
χ² / ndf 108.4 / 81
p0 0.9678 ± 2.441
pull
Entries 82
Mean 2795
Std Dev 0

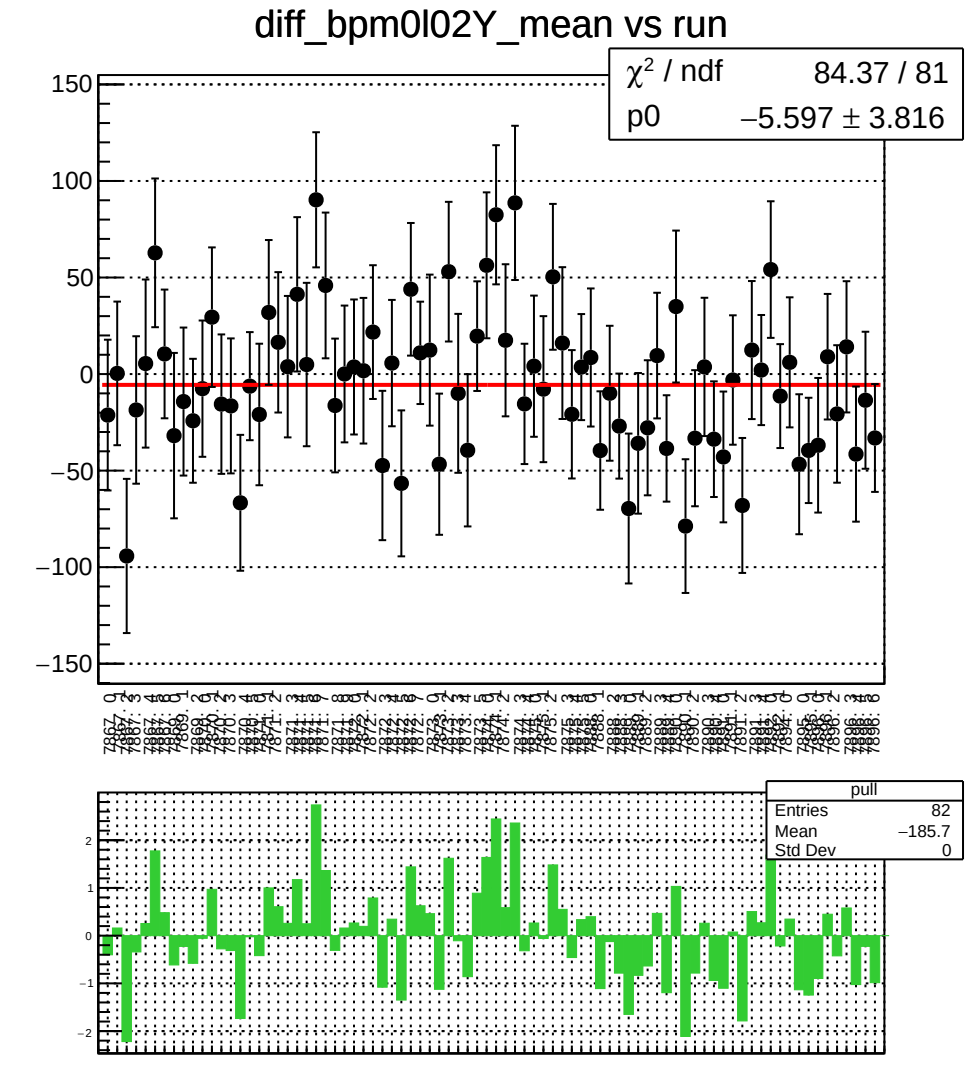

pull1D
Entries 82
Mean −0.003389
Std Dev 1.15

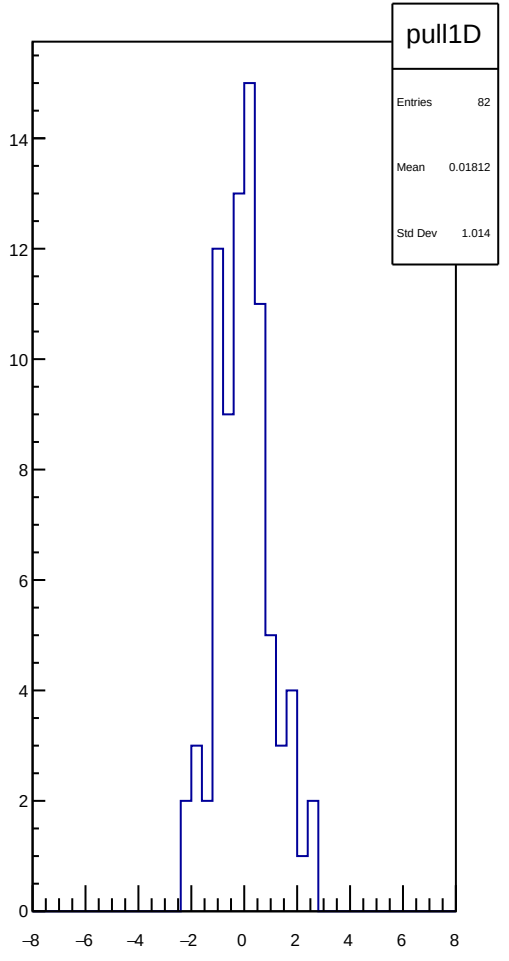

diff_bpm0l01Y_rms vs run
χ² / ndf 7058 / 81
p0 2201 ± 1.726
2800
2600
2400
2200
2000

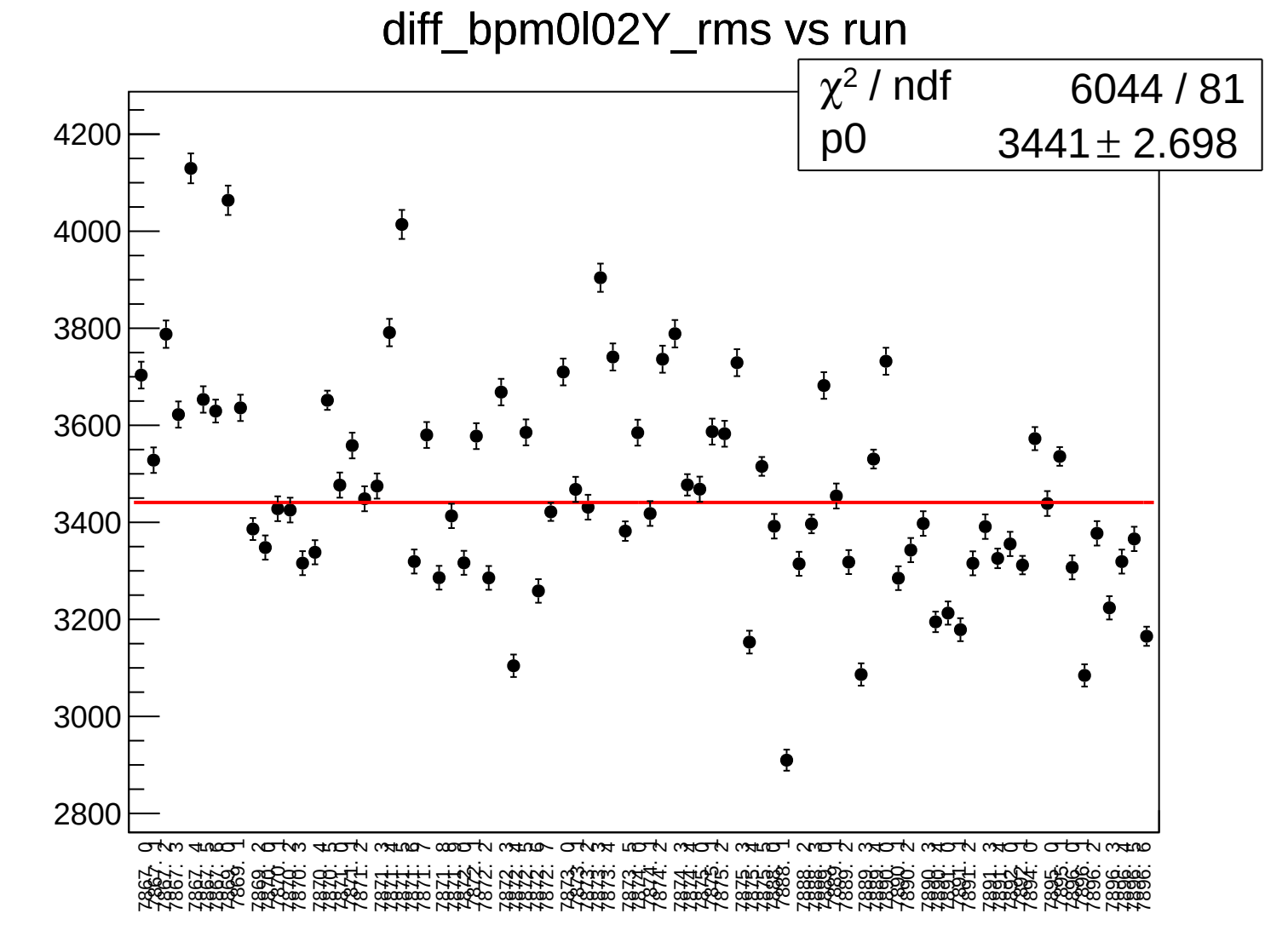

diff_bpm0l02X_mean vs run
χ² / ndf 65.88 / 81
p0 62.86 ± 10.68
pull
Entries 82
Mean 1187
Std Dev 0

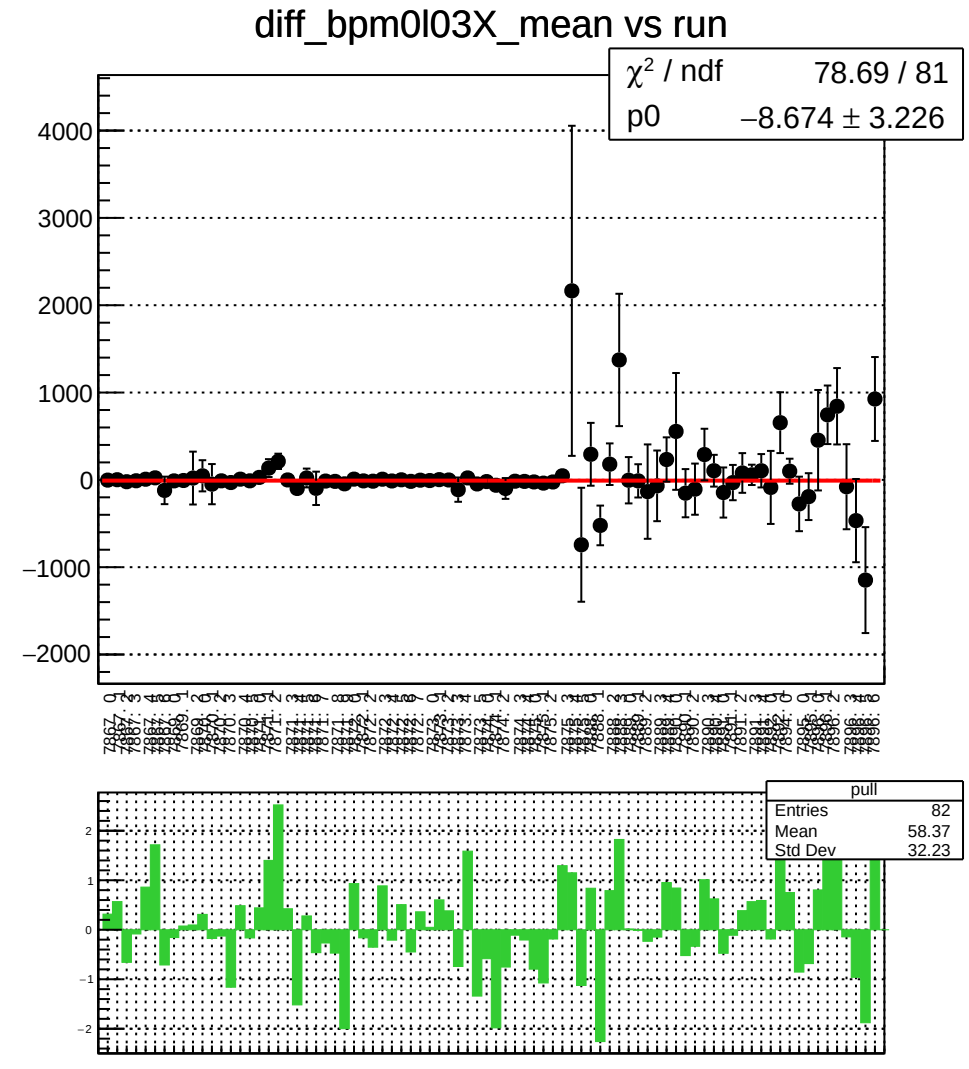

pull1D
Entries 82
Mean 0.003407
Std Dev 0.8963

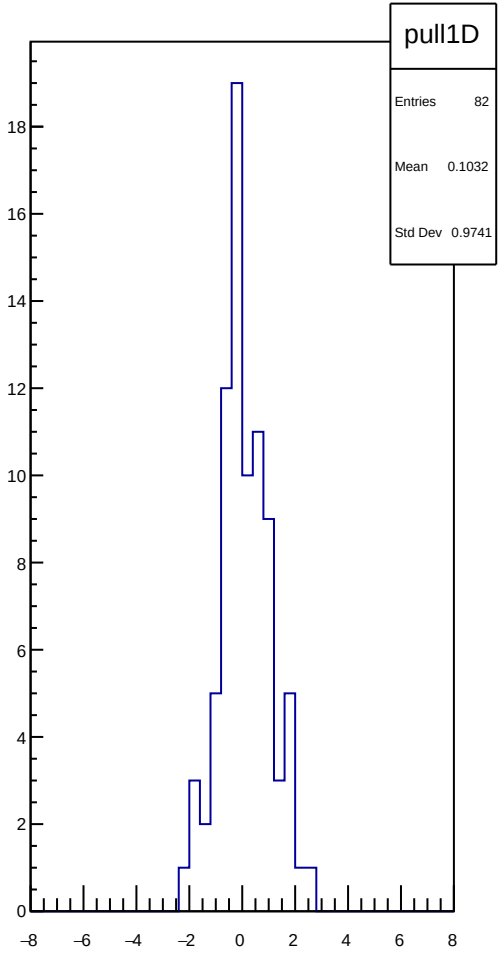

diff_bpm0l02X_rms vs run
χ² / ndf 499.4 / 81
p0 9647 ± 7.552
10200
10000
9800
9600
9400
9200
9000

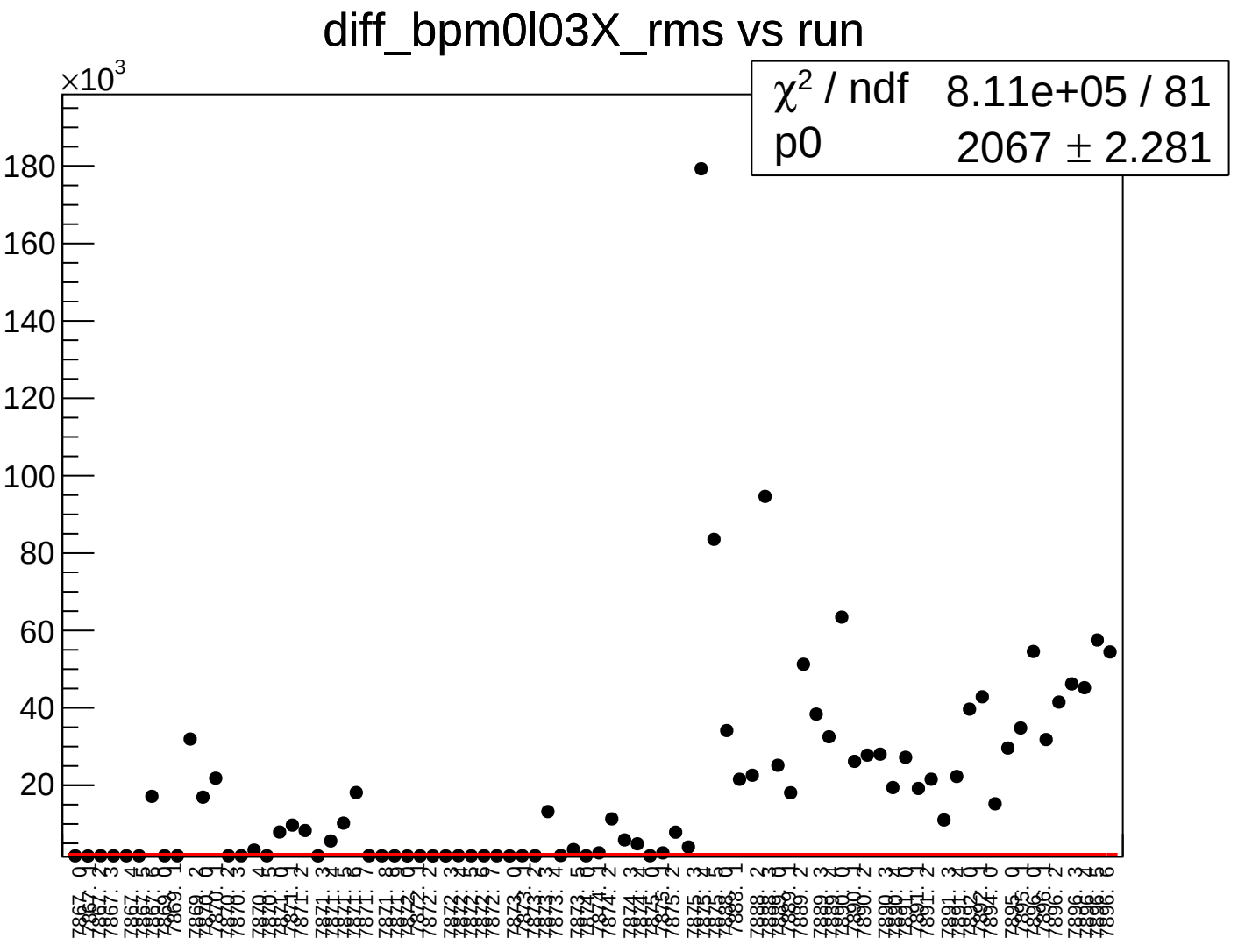

diff_bpm0l02Y_mean vs run
χ² / ndf 84.37 / 81
p0 −5.597 ± 3.816
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −185.7
Std Dev 0
2
1
0
−1
−2

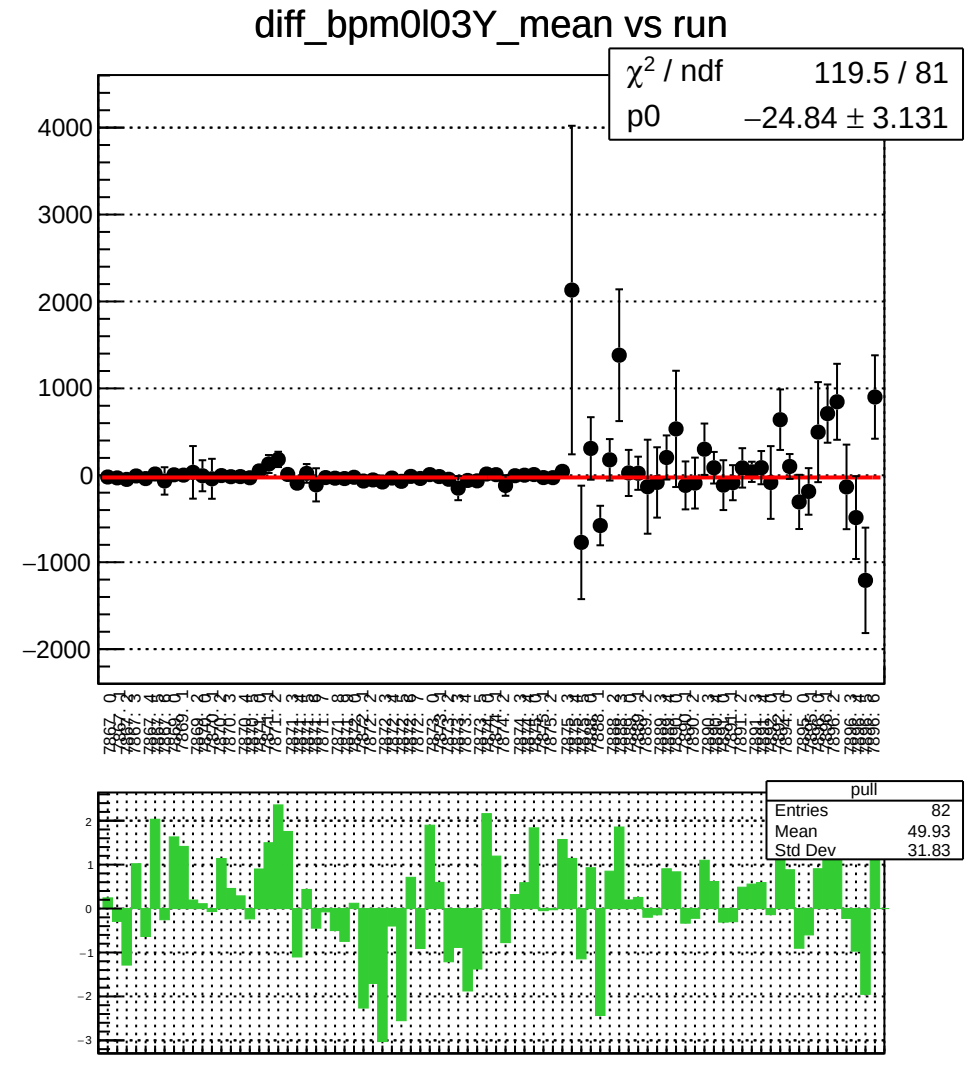

pull1D
Entries 82
Mean 0.01812
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

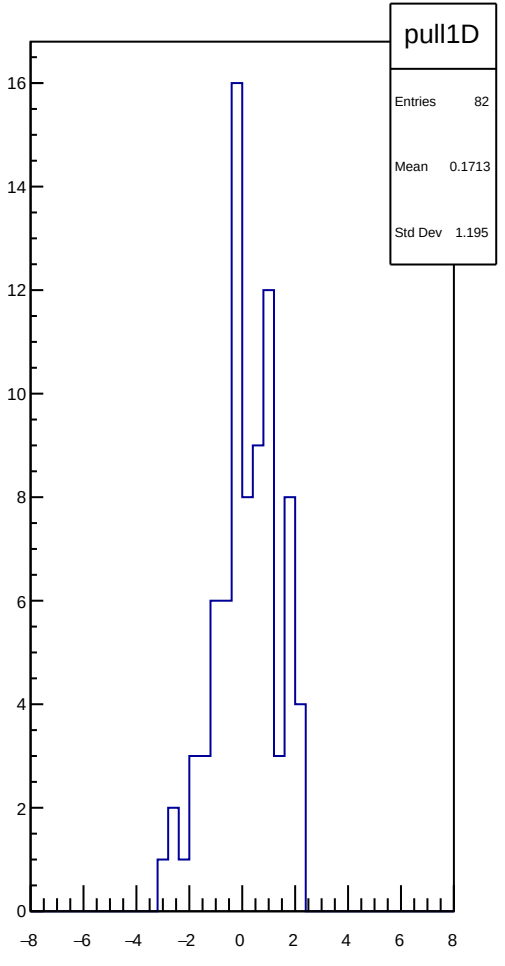

diff_bpm0l02Y_rms vs run
χ² / ndf 6044 / 81
p0 3441 ± 2.698
4200
4000
3800
3600
3400
3200
3000
2800

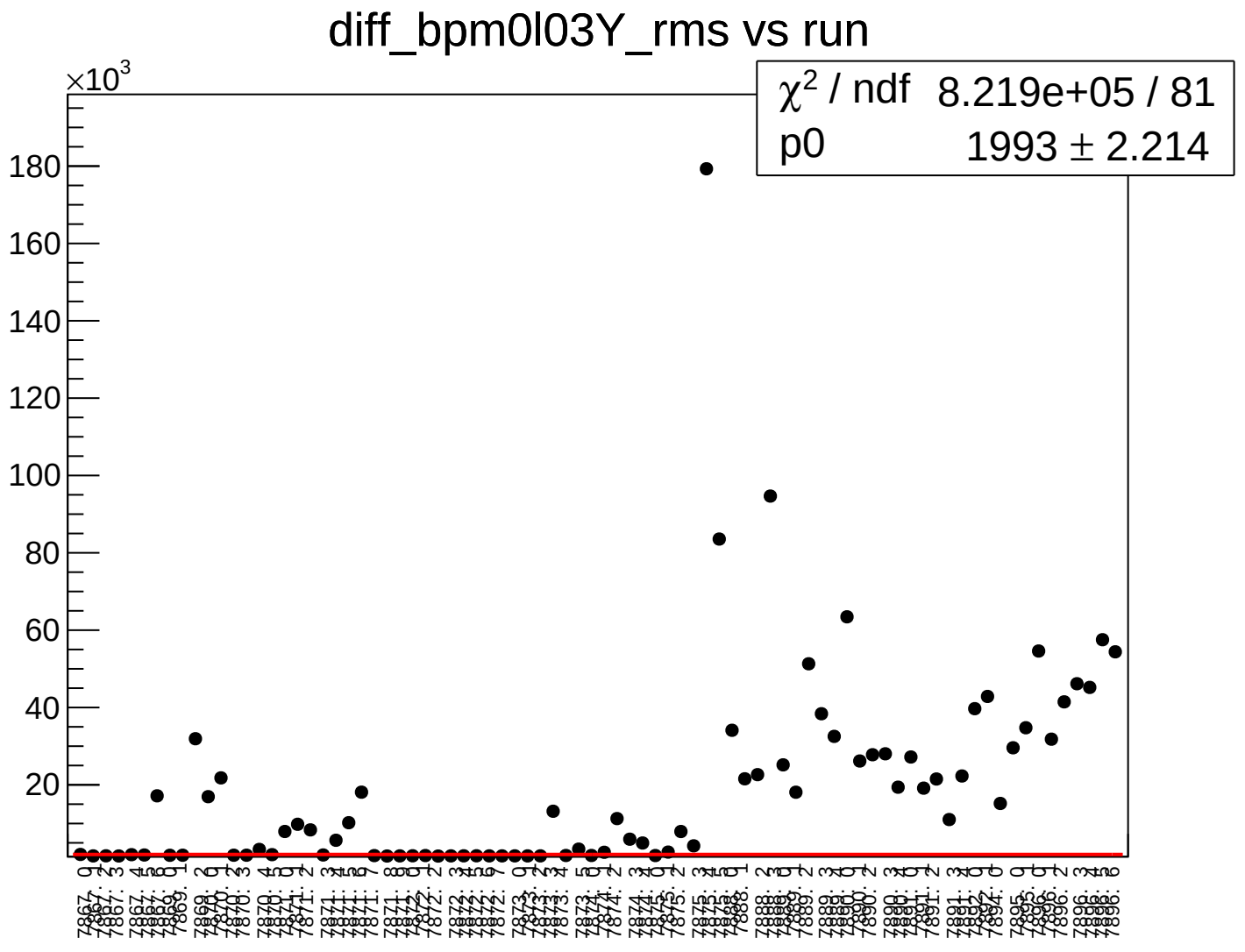

diff_bpm0l03X_mean vs run
χ² / ndf 78.69 / 81
p0 −8.674 ± 3.226
pull
Entries 82
Mean 58.37
Std Dev 32.23

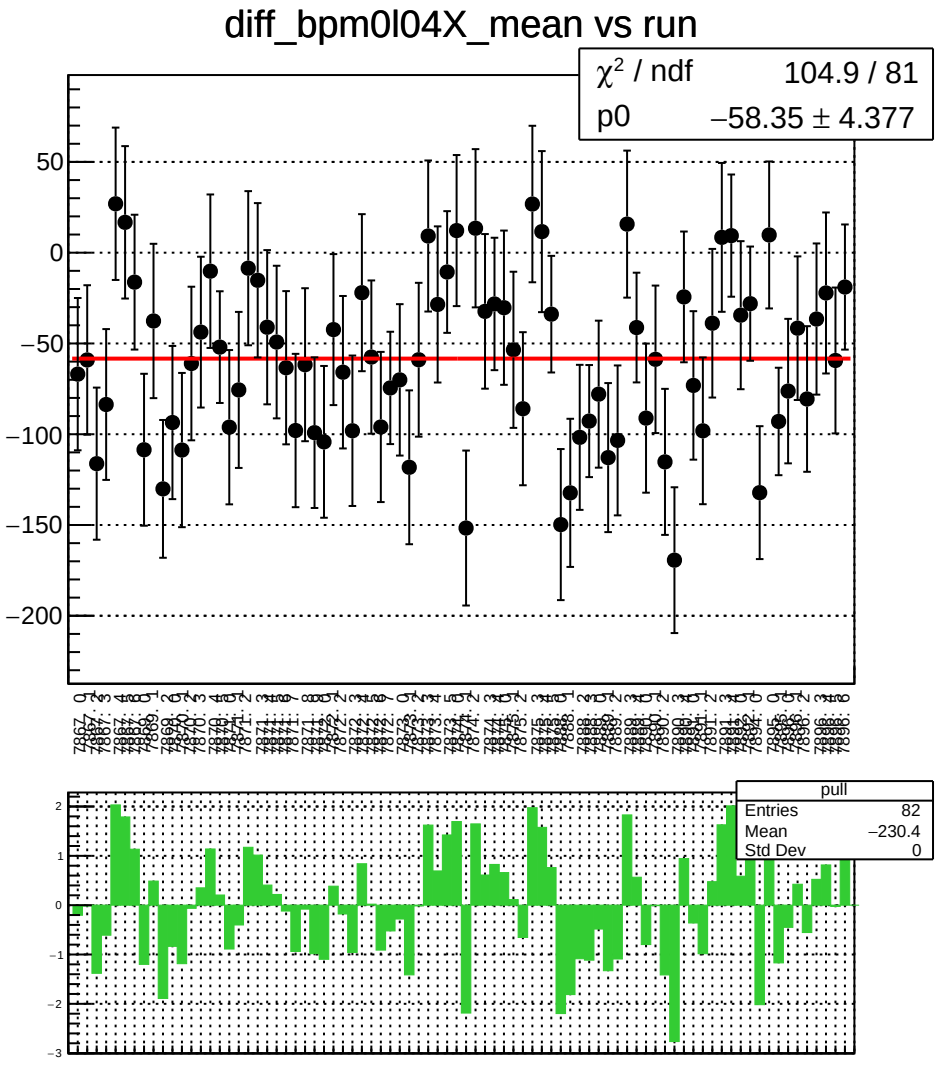

pull1D
Entries 82
Mean 0.1032
Std Dev 0.9741

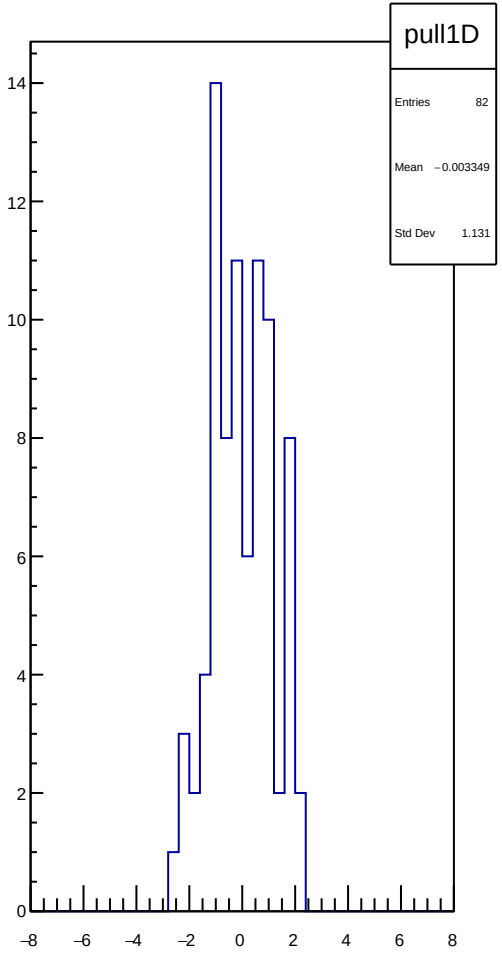

diff_bpm0l03X_rms vs run
×10^3
χ² / ndf 8.11e+05 / 81
p0 2067 ± 2.281
180
160
140
120
100
80
60
40
20

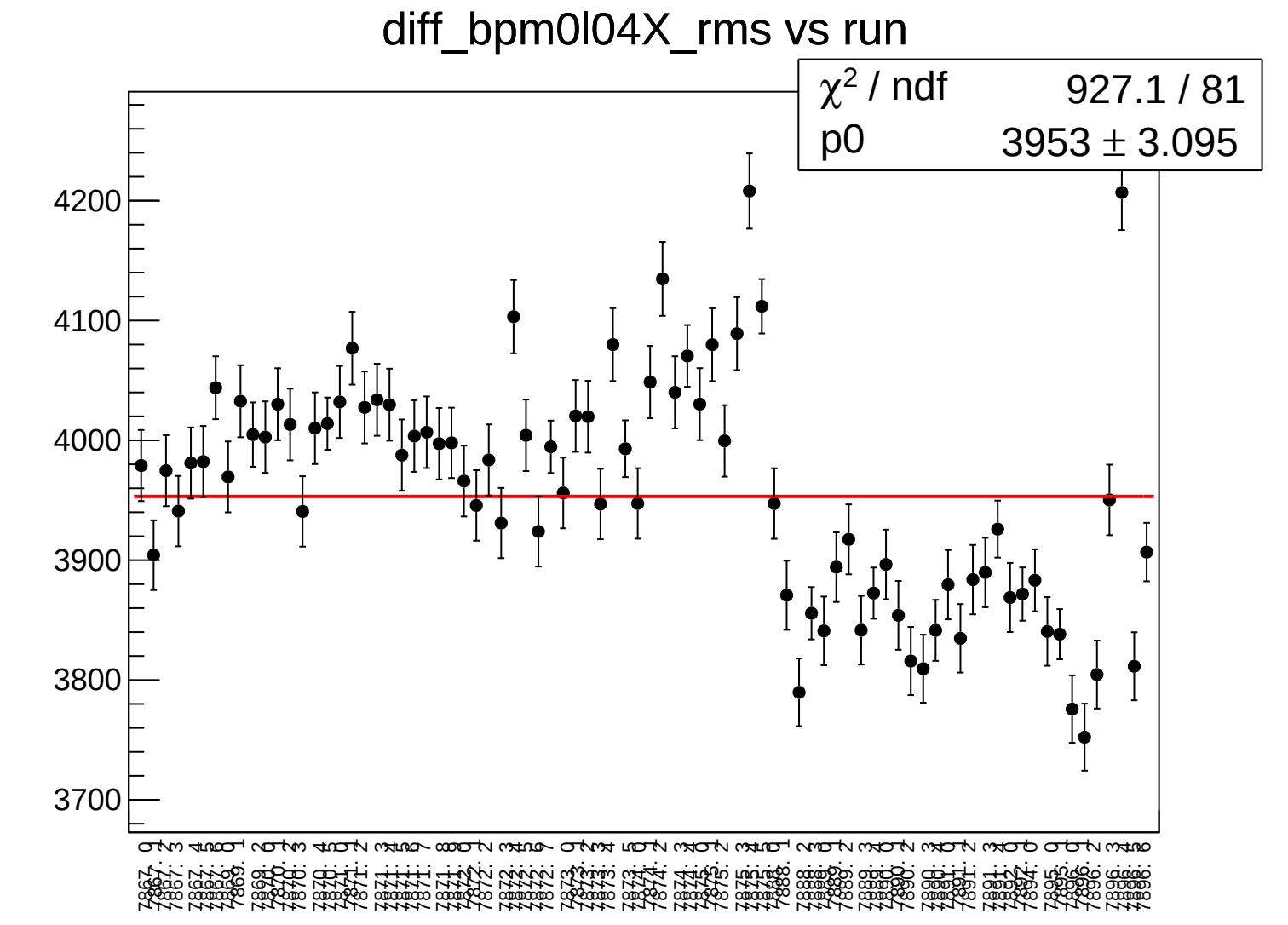

diff_bpm0l03Y_mean vs run
χ² / ndf 119.5 / 81
p0 −24.84 ± 3.131
pull
Entries 82
Mean 49.93
Std Dev 31.83

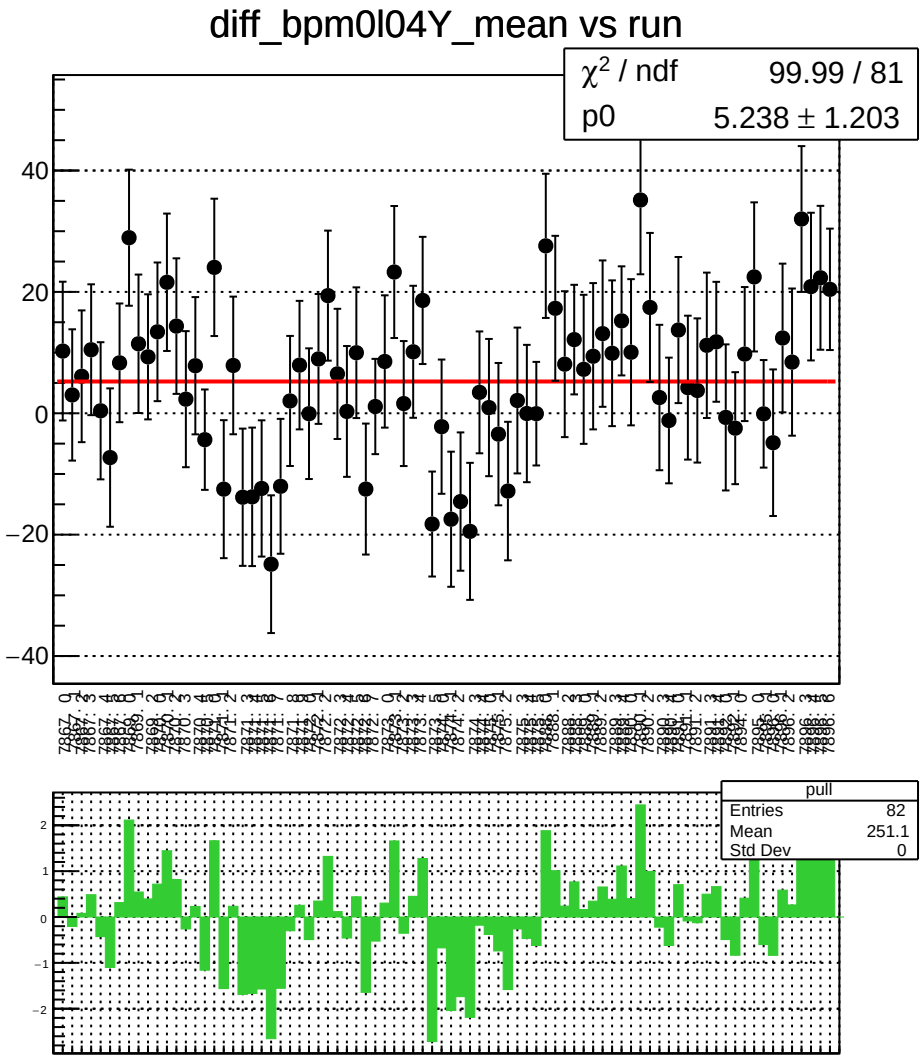

pull1D
Entries 82
Mean 0.1713
Std Dev 1.195

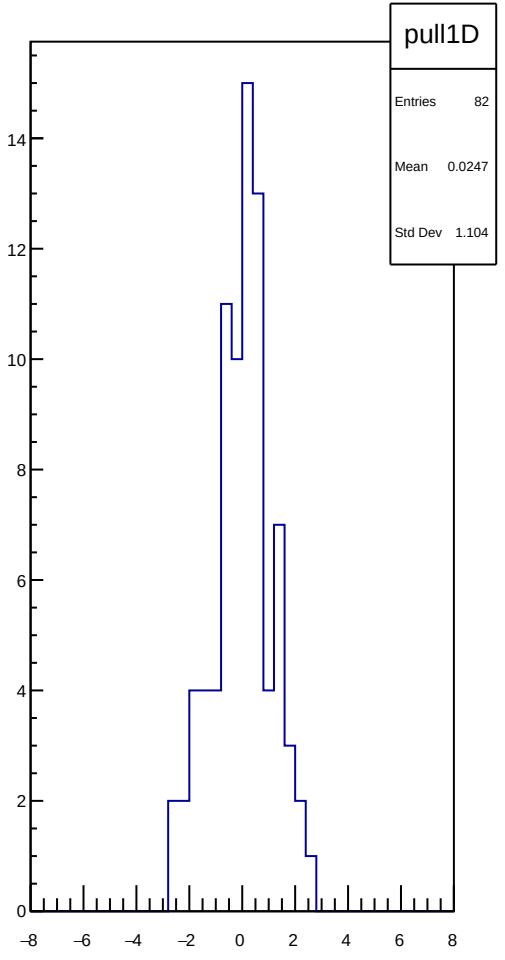

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 8.219e+05 / 81
p0 1993 ± 2.214
180
160
140
120
100
80
60
40
20

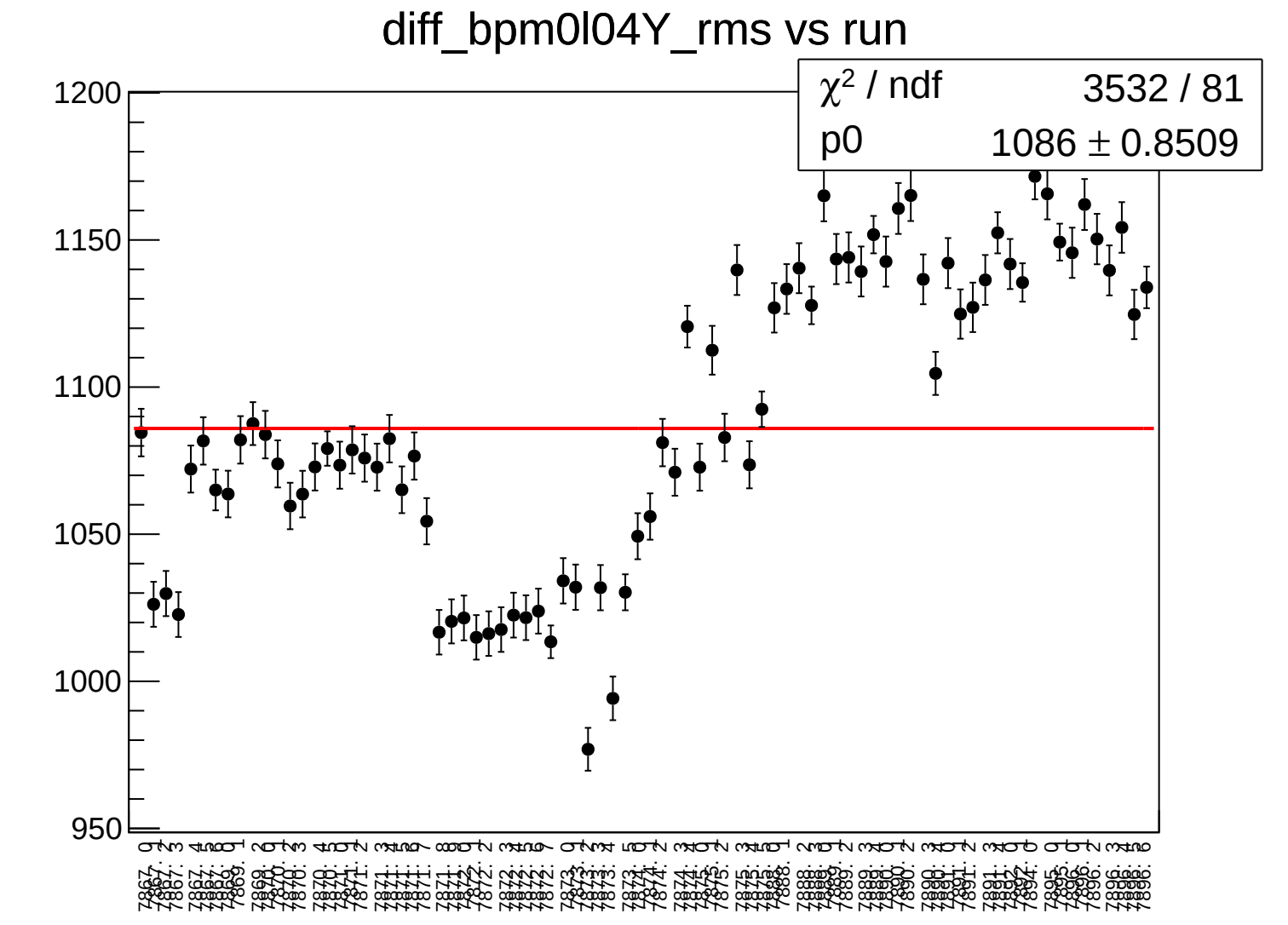

diff_bpm0l04X_mean vs run
χ² / ndf 104.9 / 81
p0 −58.35 ± 4.377
pull
Entries 82
Mean −230.4
Std Dev 0

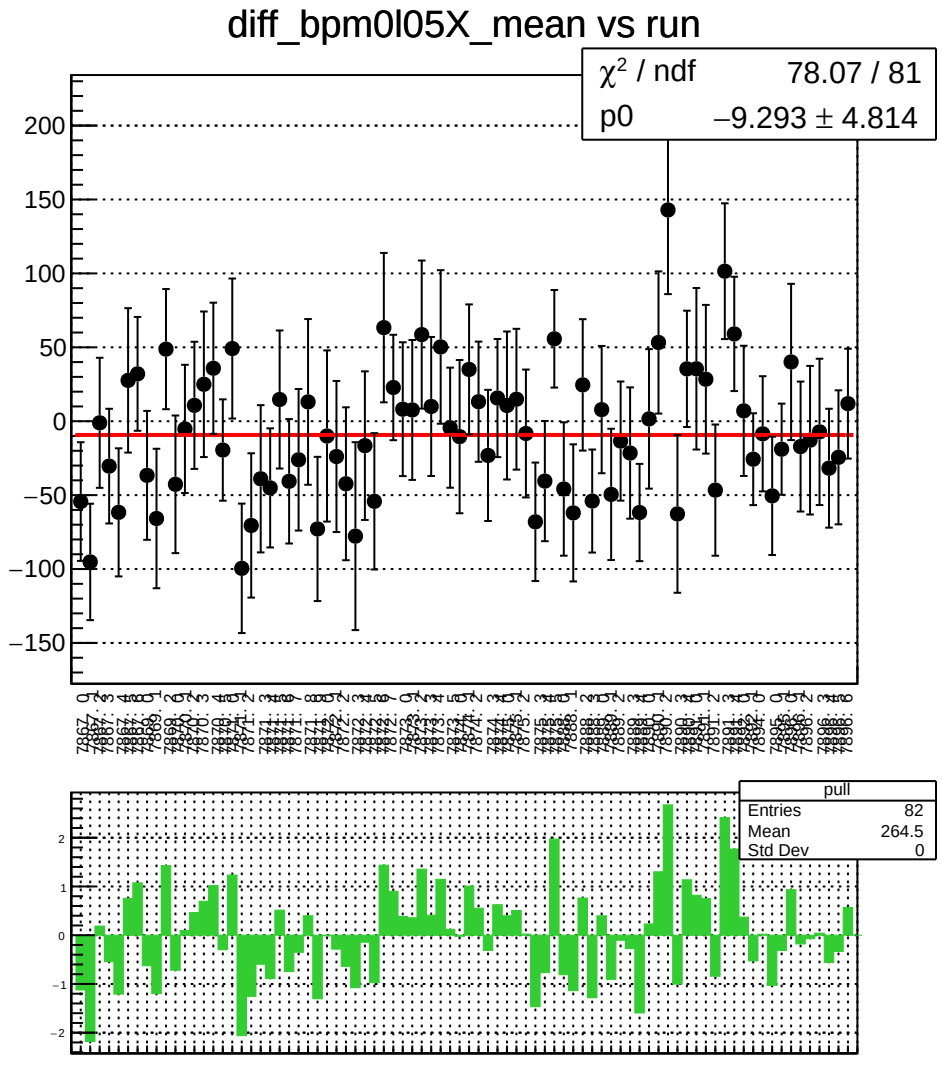

pull1D
Entries 82
Mean −0.003349
Std Dev 1.131

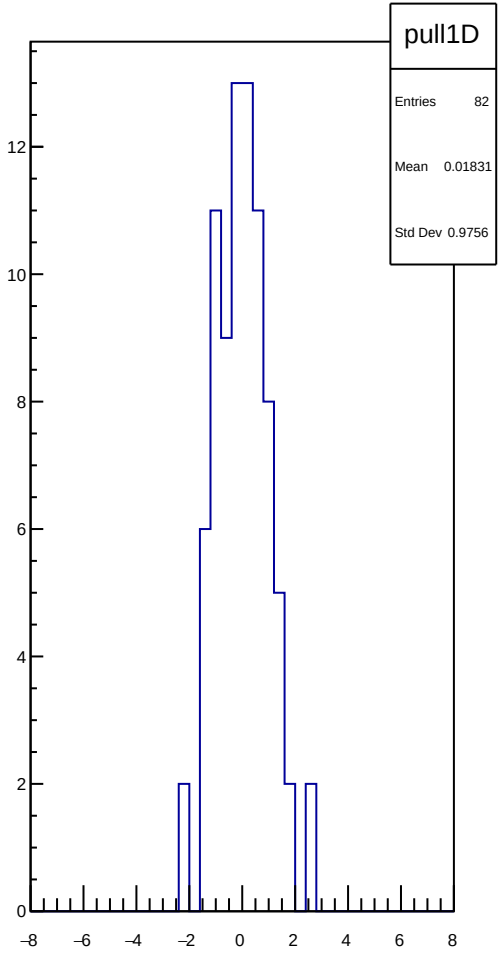

diff_bpm0l04X_rms vs run
χ² / ndf 927.1 / 81
p0 3953 ± 3.095
4200
4100
4000
3900
3800
3700

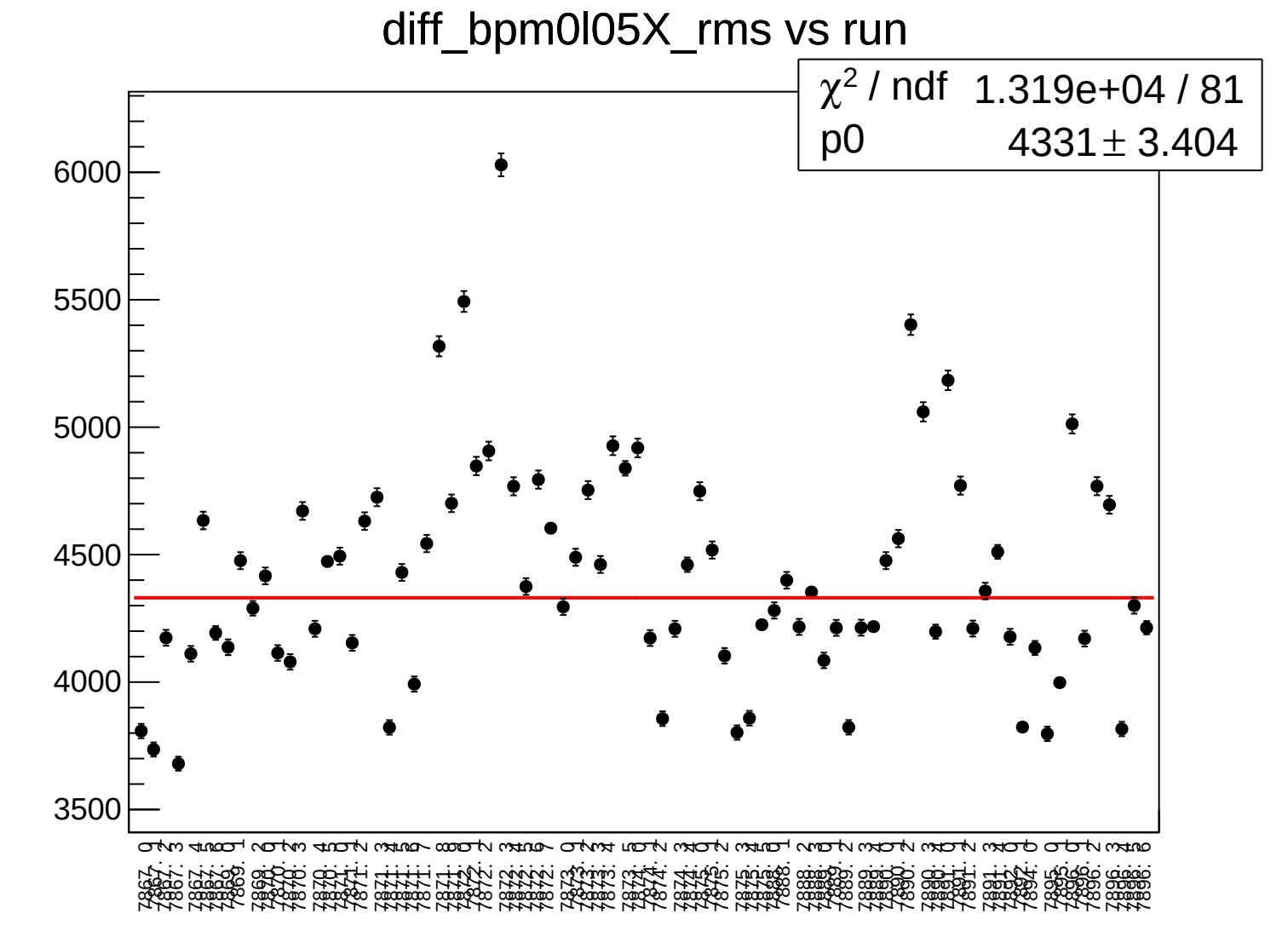

diff_bpm0l04Y_mean vs run
χ² / ndf 99.99 / 81
p0 5.238 ± 1.203
pull
Entries 82
Mean 251.1
Std Dev 0

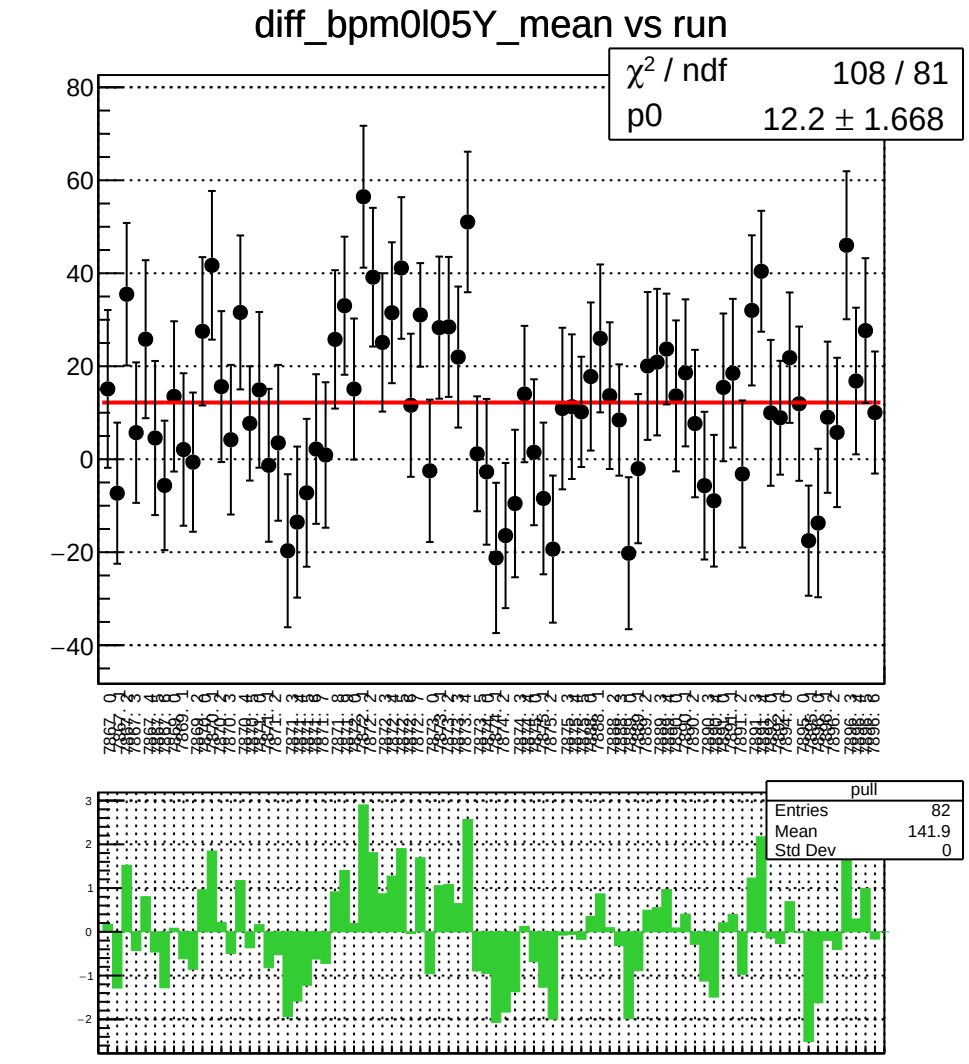

pull1D
Entries 82
Mean 0.0247
Std Dev 1.104

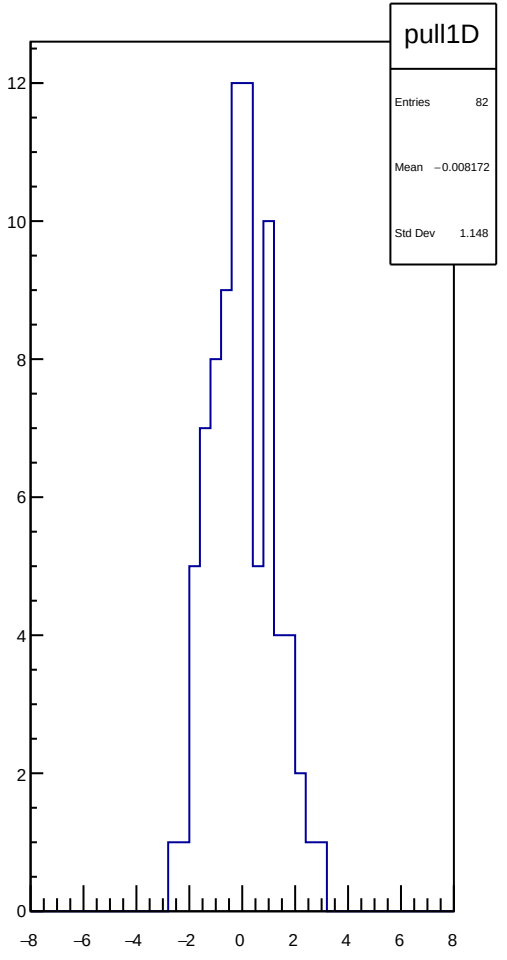

diff_bpm0l04Y_rms vs run
χ² / ndf 3532 / 81
p0 1086 ± 0.8509
1200
1150
1100
1050
1000
950

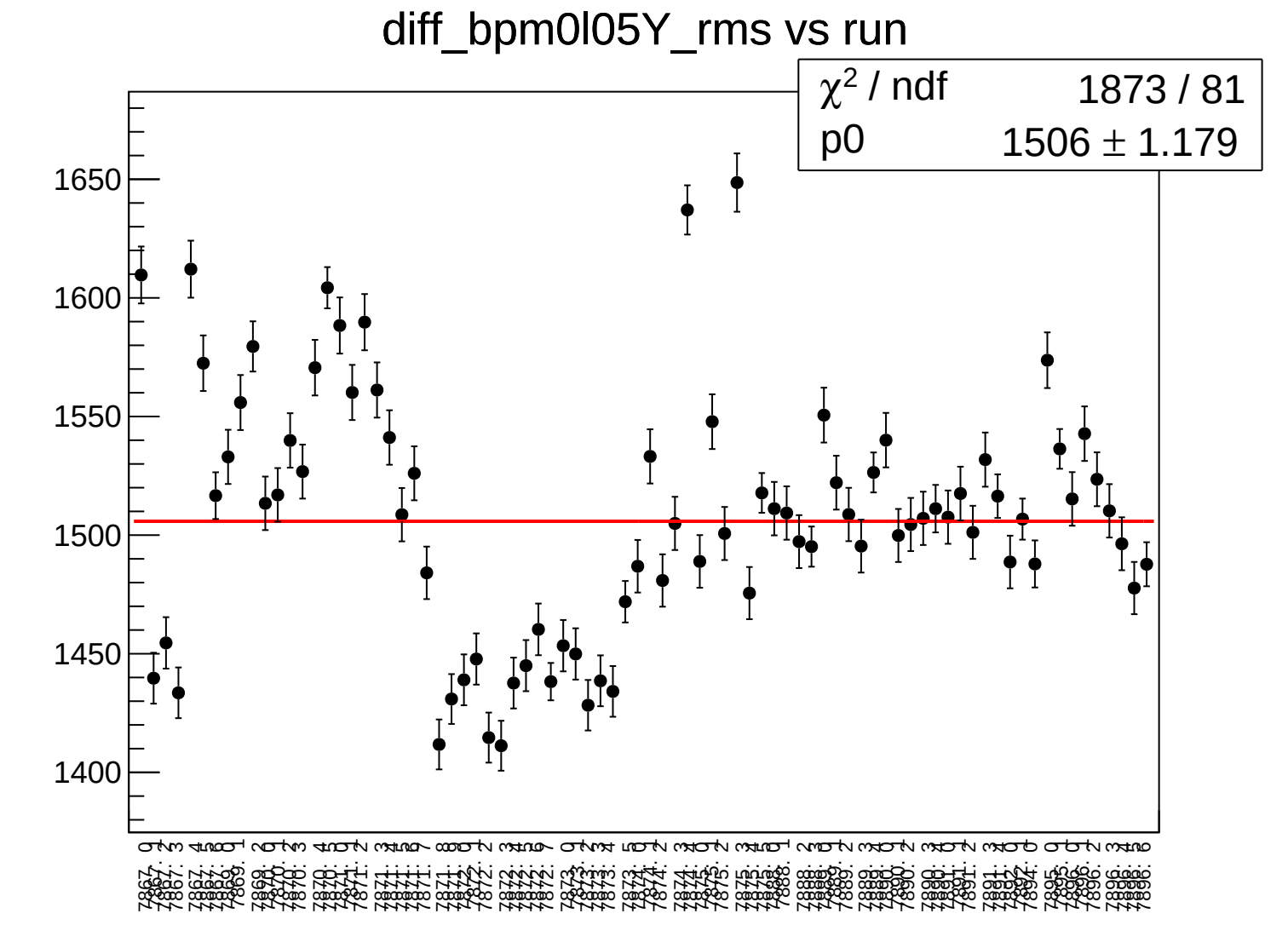

diff_bpm0l05X_mean vs run
χ² / ndf 78.07 / 81
p0 −9.293 ± 4.814
pull
Entries 82
Mean 264.5
Std Dev 0

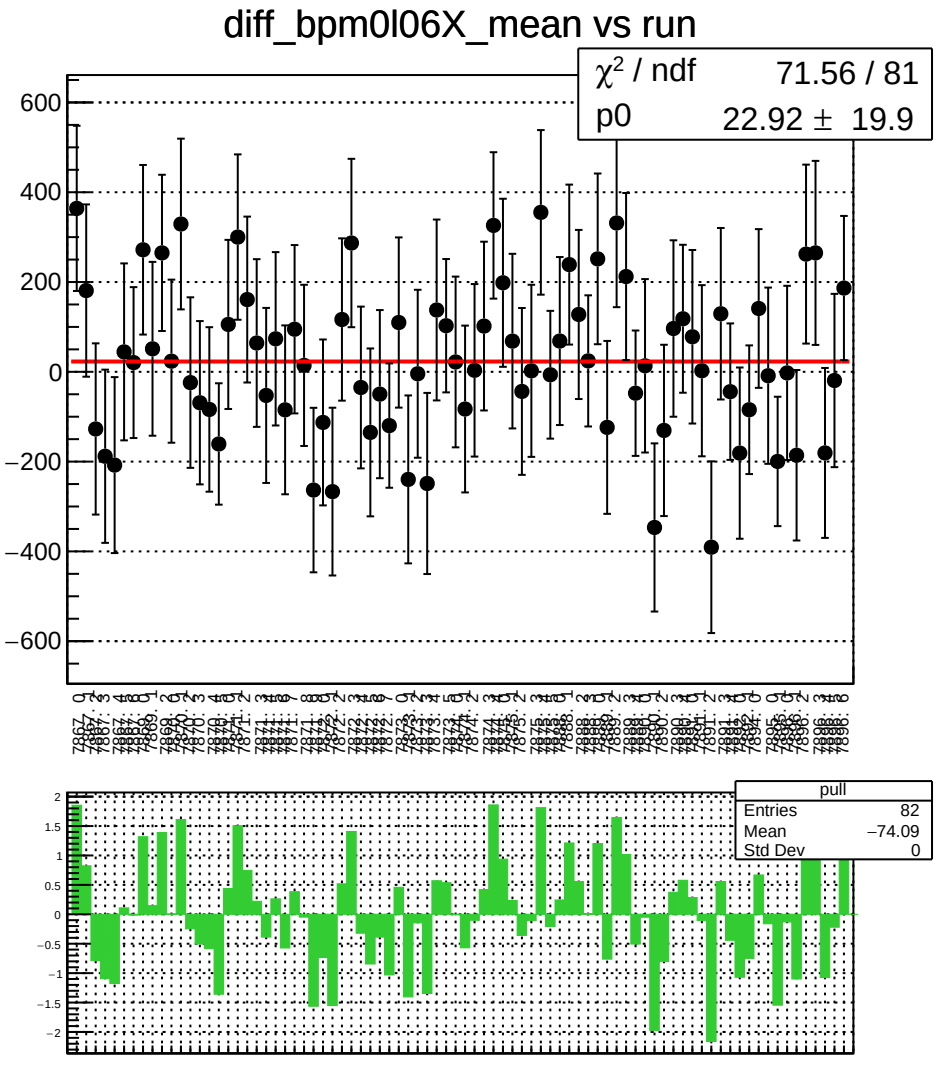

pull1D
Entries 82
Mean 0.01831
Std Dev 0.9756

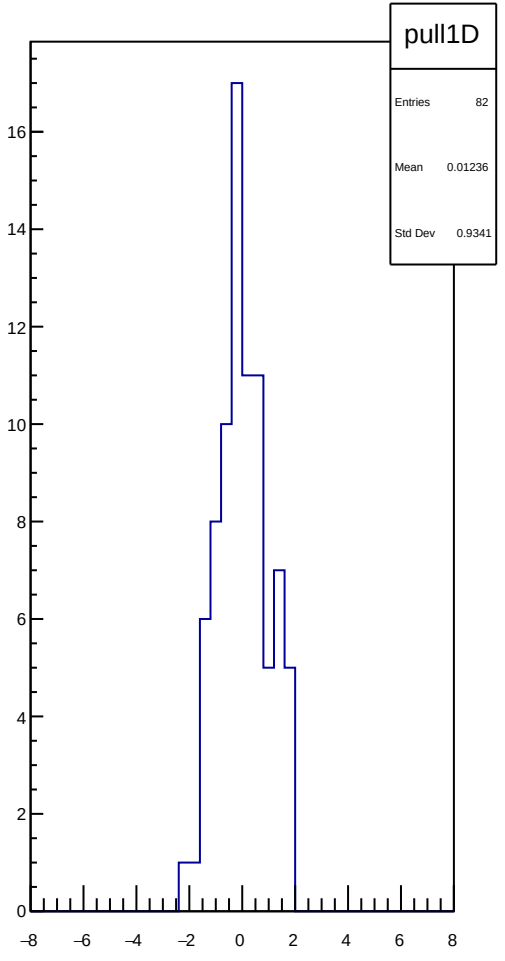

diff_bpm0l05X_rms vs run
χ² / ndf 1.319e+04 / 81
p0 4331 ± 3.404
6000
5500
5000
4500
4000
3500

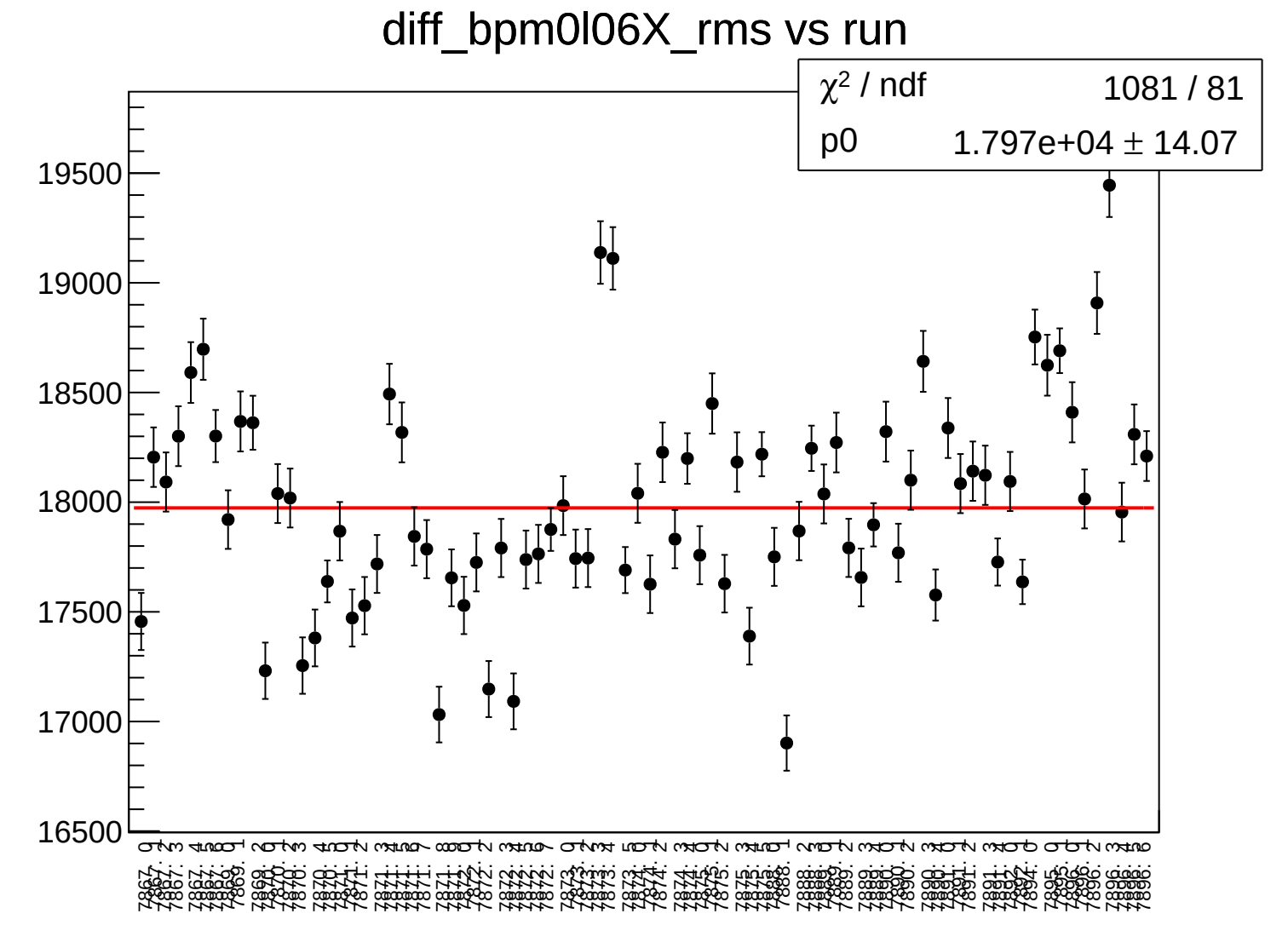

diff_bpm0l05Y_mean vs run
χ² / ndf 108 / 81
p0 12.2 ± 1.668
pull
Entries 82
Mean 141.9
Std Dev 0

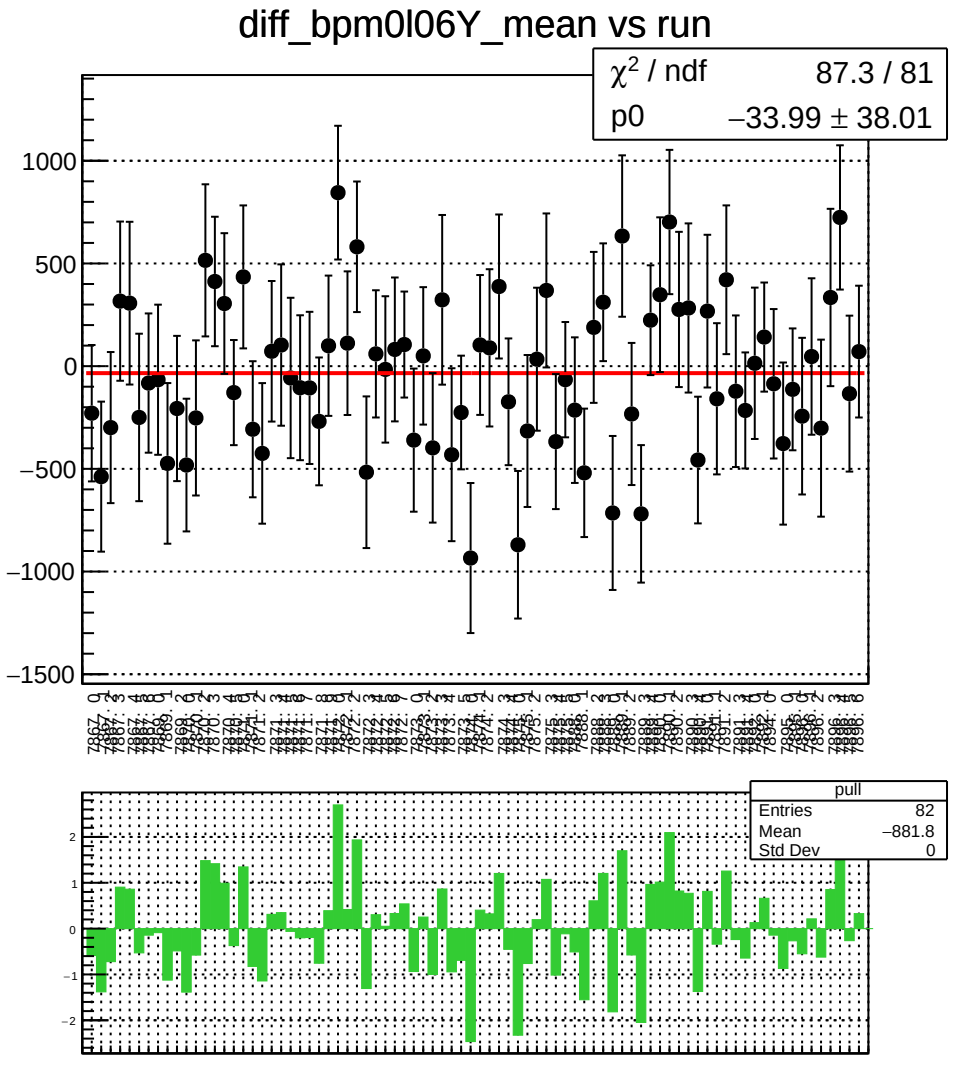

pull1D
Entries 82
Mean −0.008172
Std Dev 1.148

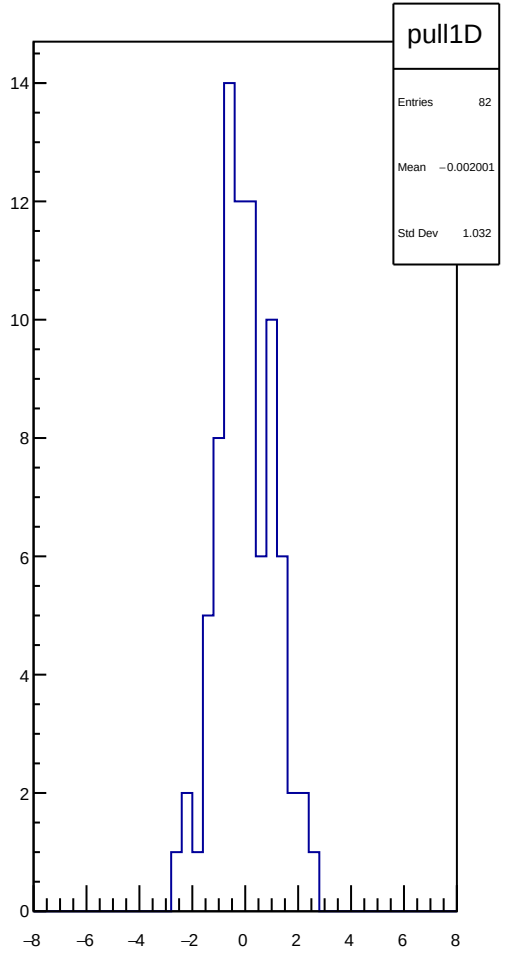

diff_bpm0l05Y_rms vs run
χ^2 / ndf 1873 / 81
p0 1506 ± 1.179
1650
1600
1550
1500
1450
1400

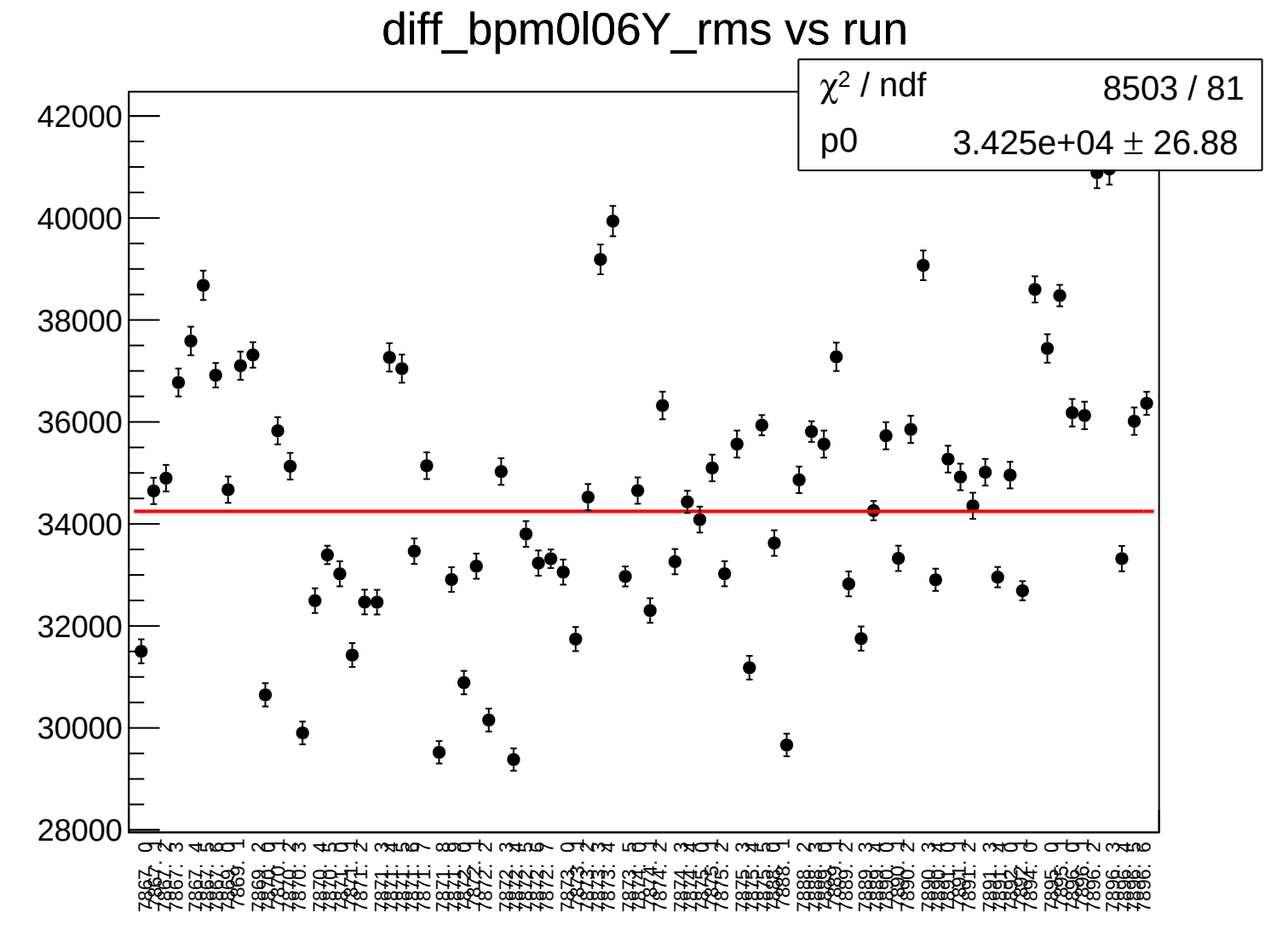

diff_bpm0l06X_mean vs run
χ² / ndf 71.56 / 81
p0 22.92 ± 19.9
pull
Entries 82
Mean −74.09
Std Dev 0

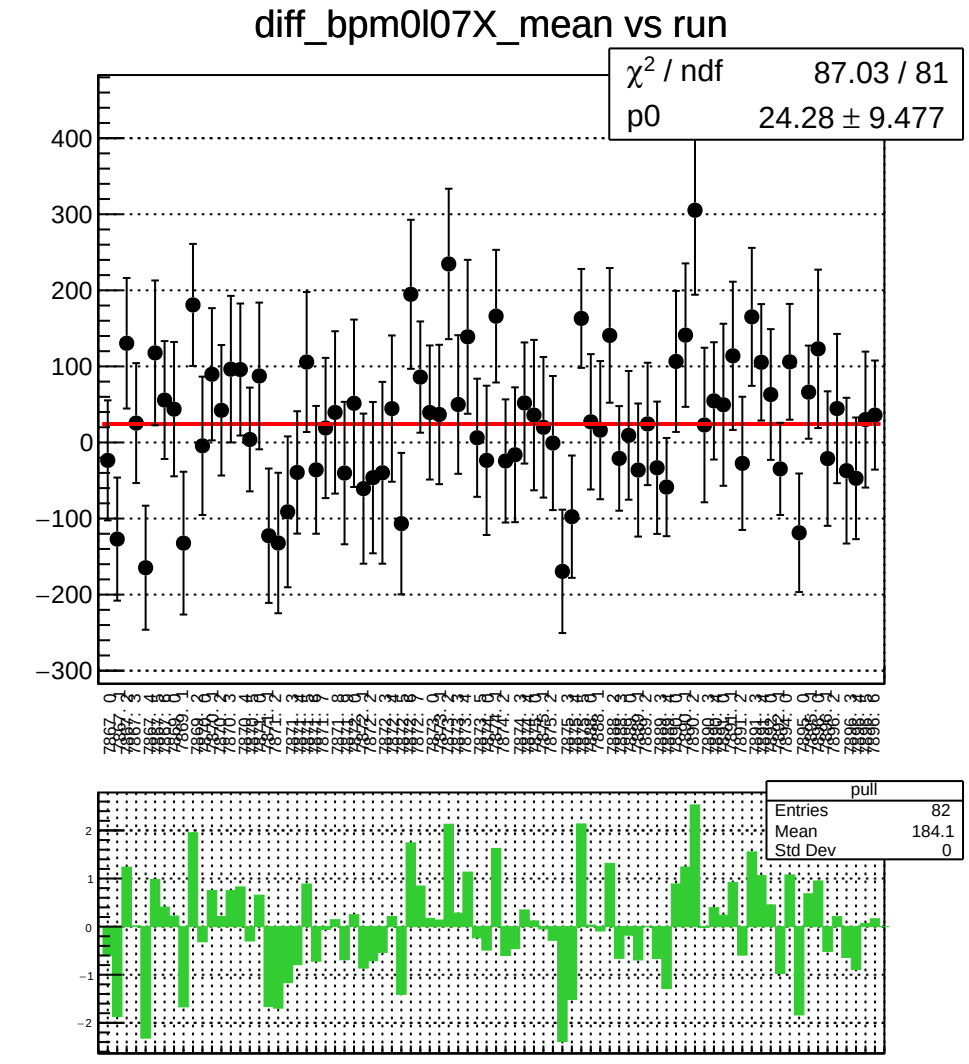

pull1D
Entries 82
Mean 0.01236
Std Dev 0.9341

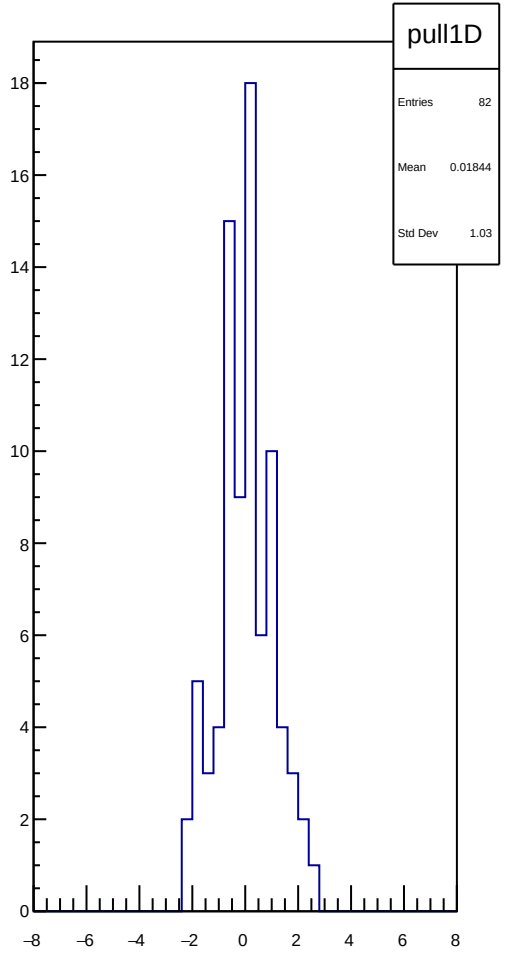

diff_bpm0l06X_rms vs run
χ² / ndf 1081 / 81
p0 1.797e+04 ± 14.07
19500
19000
18500
18000
17500
17000
16500

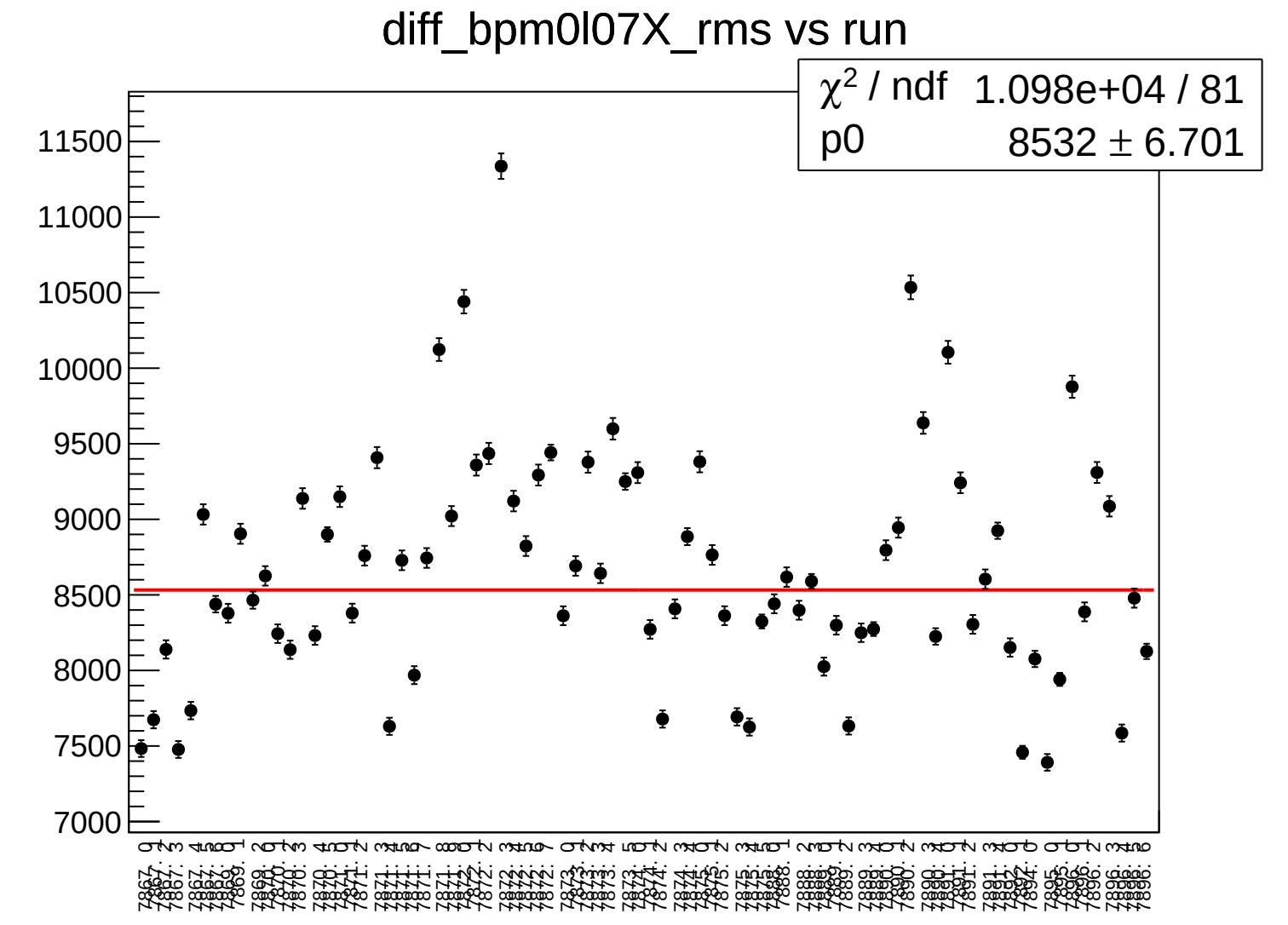

diff_bpm0l06Y_mean vs run
χ² / ndf 87.3 / 81
p0 −33.99 ± 38.01
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean −881.8
Std Dev 0
2
1
0
−1
−2

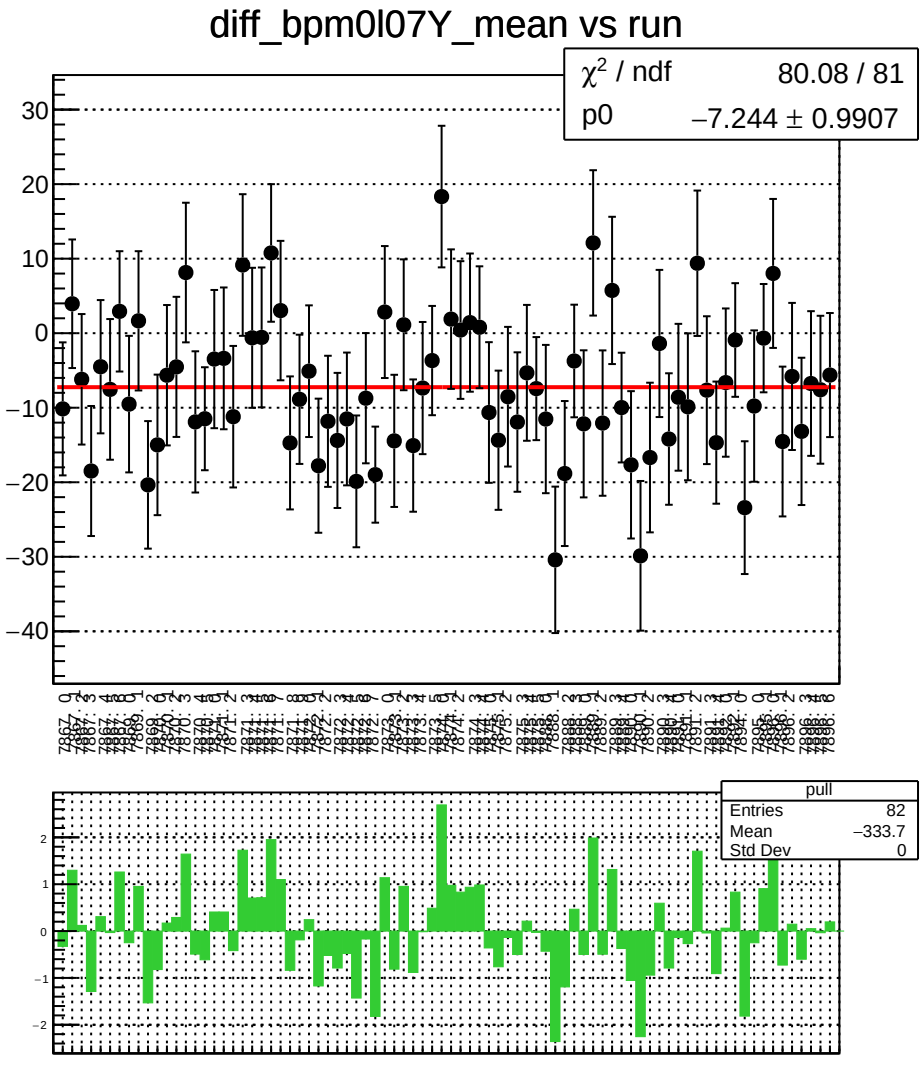

pull1D
Entries 82
Mean −0.002001
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

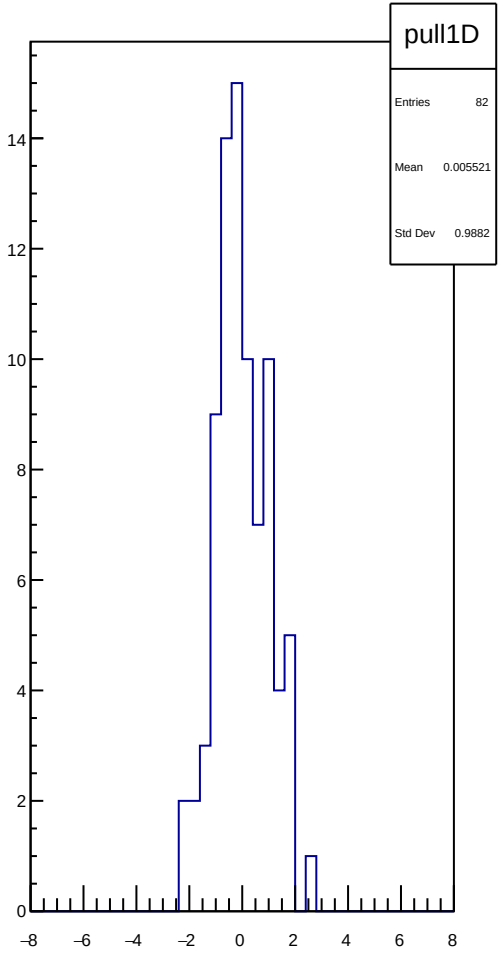

diff_bpm0l06Y_rms vs run
χ² / ndf 8503 / 81
p0 3.425e+04 ± 26.88
42000
40000
38000
36000
34000
32000
30000
28000

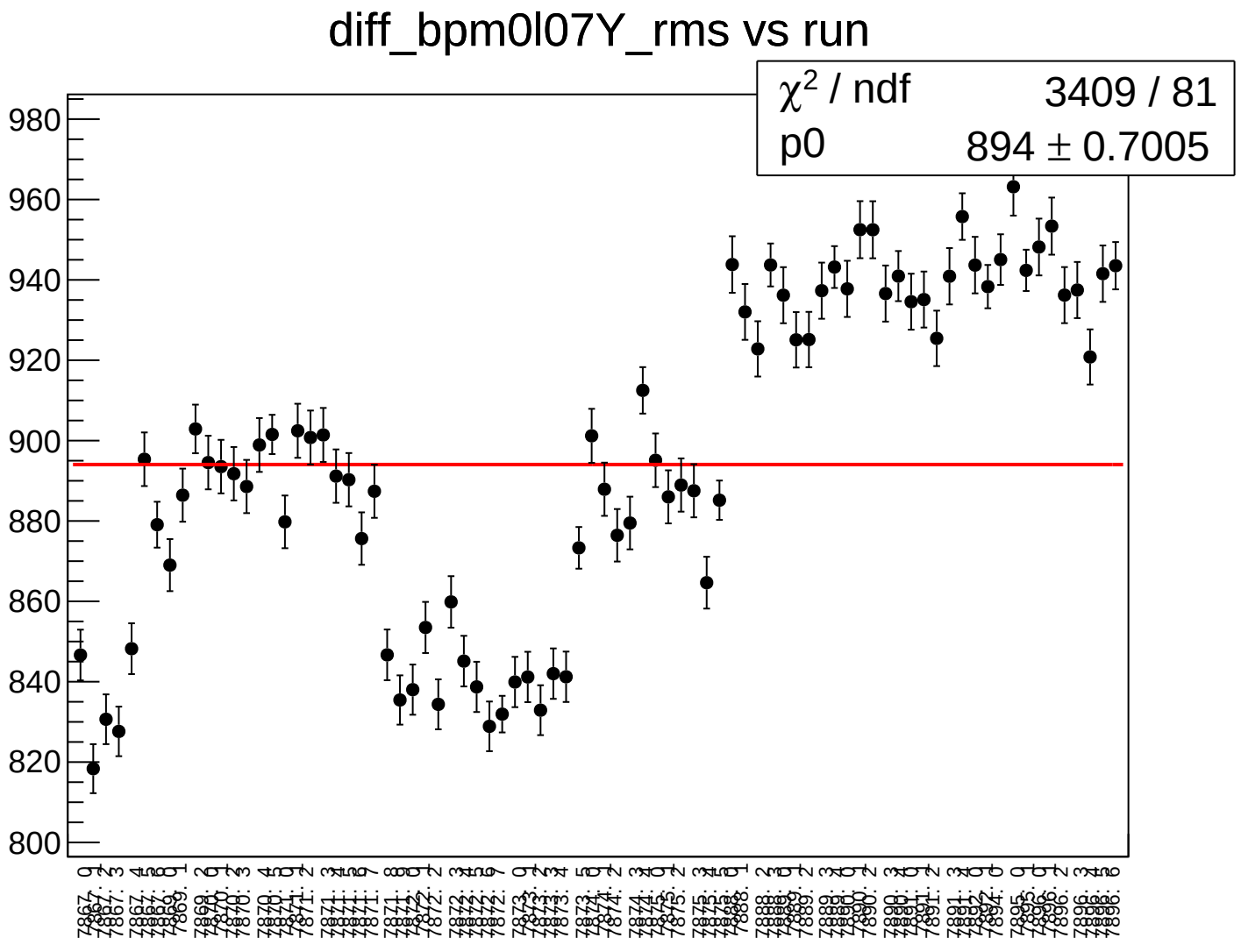

diff_bpm0l07X_mean vs run
χ² / ndf 87.03 / 81
p0 24.28 ± 9.477
pull
Entries 82
Mean 184.1
Std Dev 0

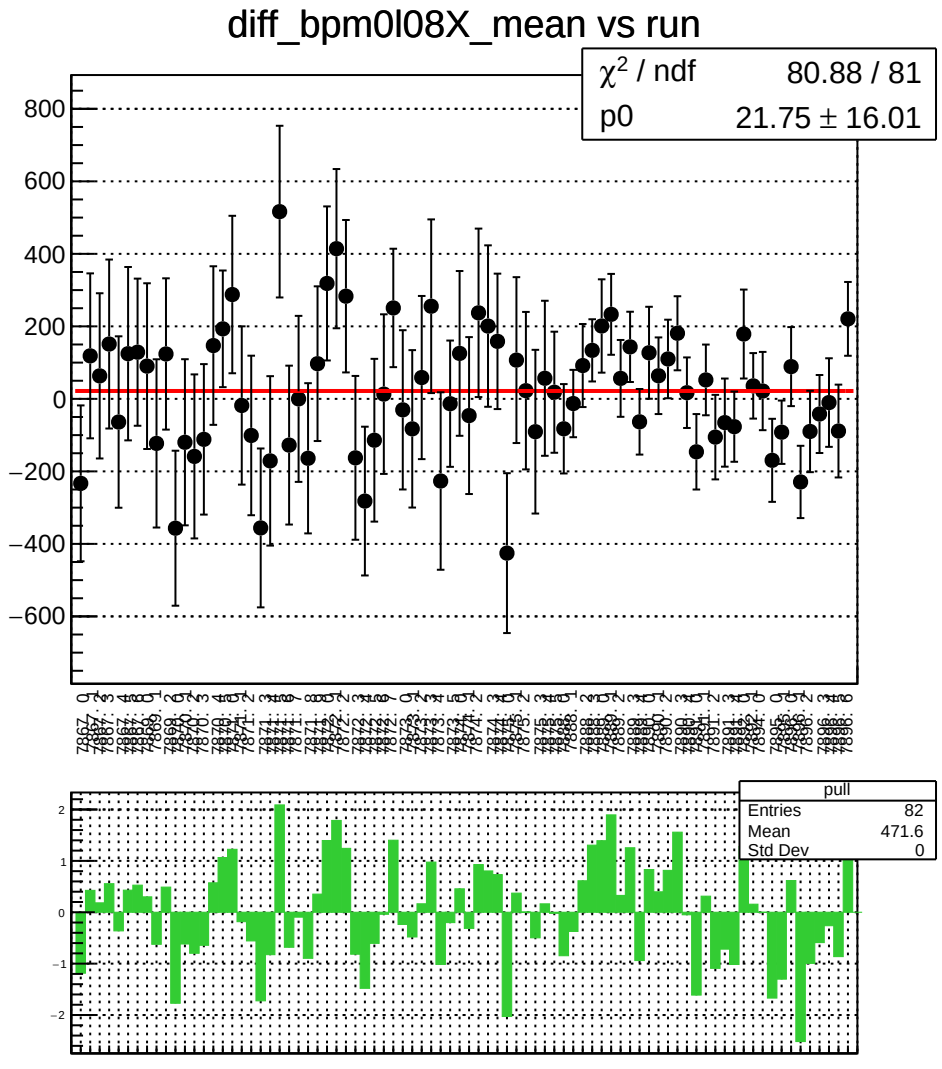

pull1D
Entries 82
Mean 0.01844
Std Dev 1.03

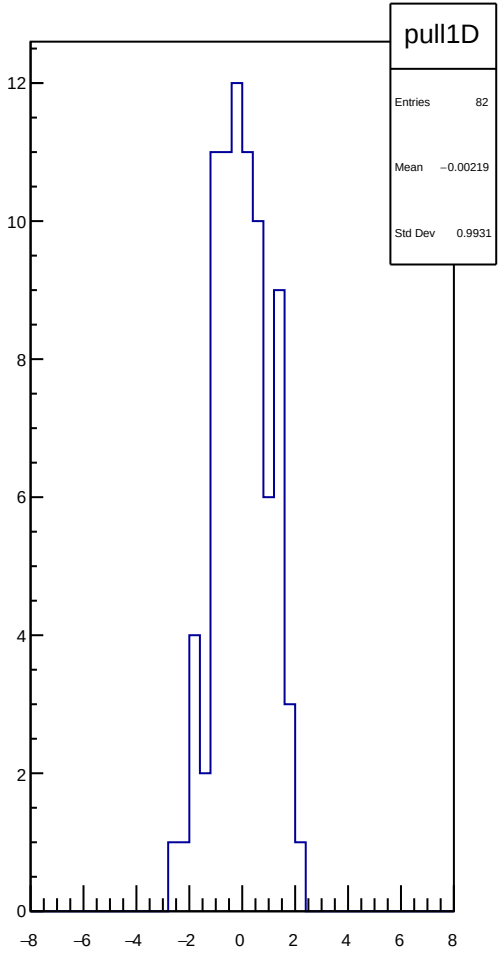

diff_bpm0l07X_rms vs run
χ² / ndf 1.098e+04 / 81
p0 8532 ± 6.701
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000

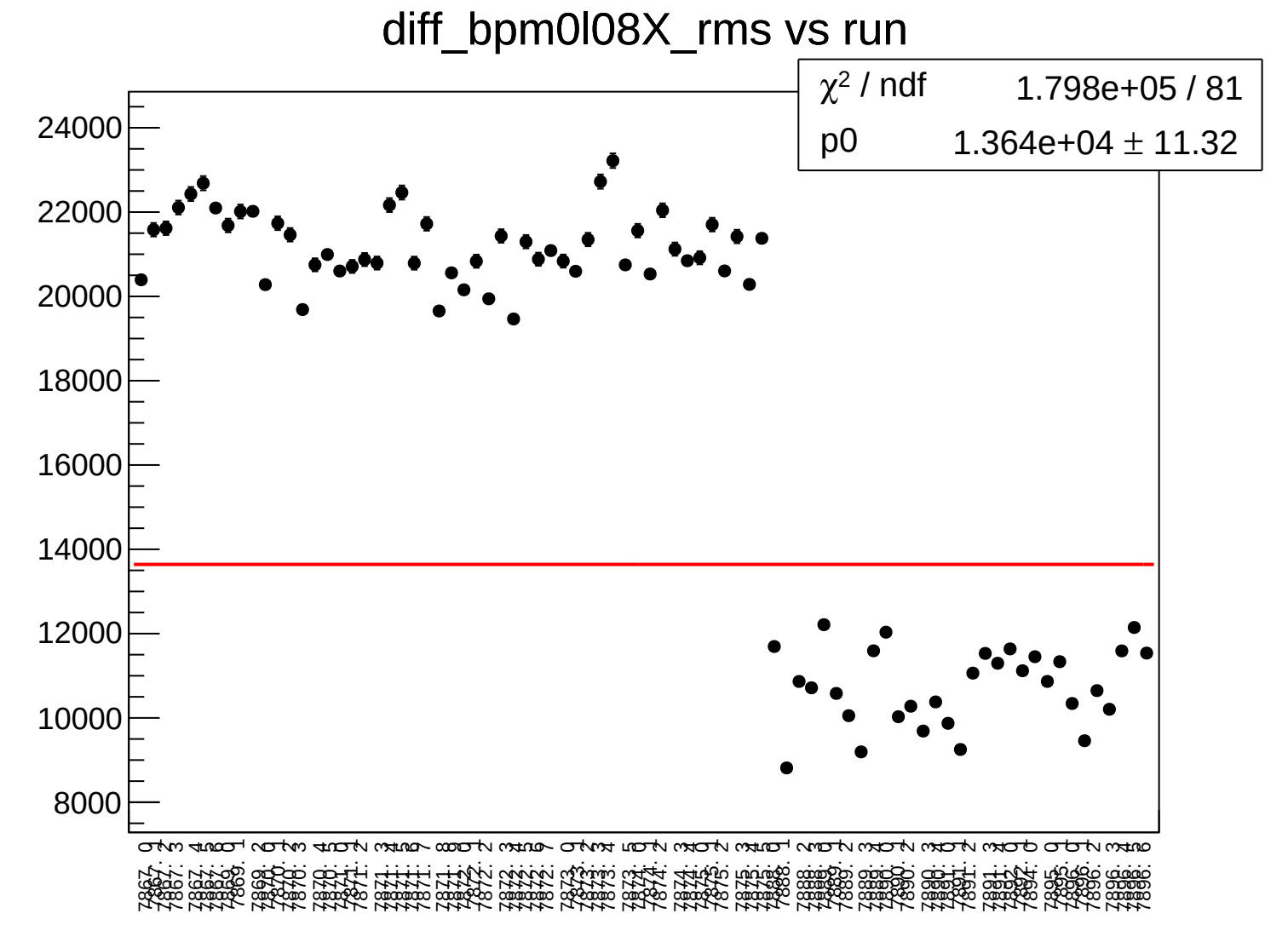

diff_bpm0l07Y_mean vs run
χ² / ndf 80.08 / 81
p0 −7.244 ± 0.9907
pull
Entries 82
Mean −333.7
Std Dev 0

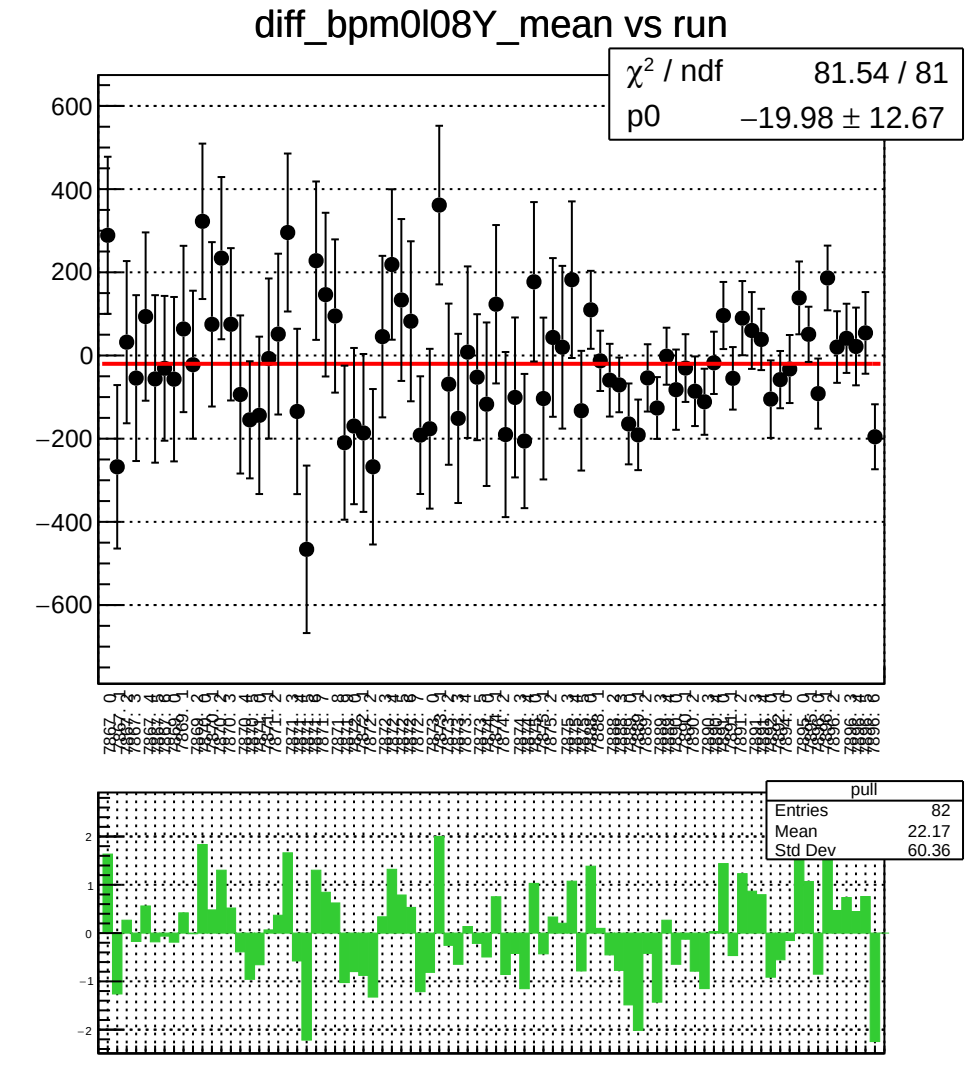

pull1D
Entries 82
Mean 0.005521
Std Dev 0.9882

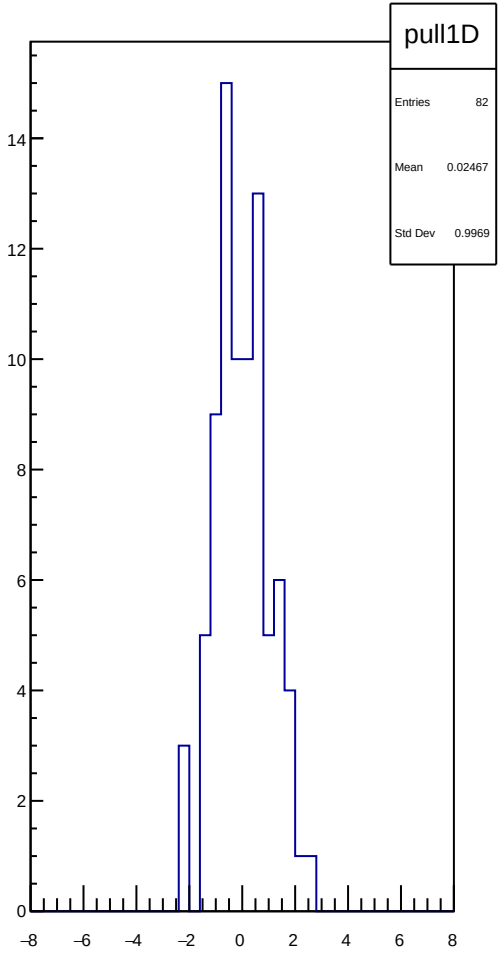

diff_bpm0l07Y_rms vs run
χ² / ndf 3409 / 81
p0 894 ± 0.7005
980
960
940
920
900
880
860
840
820
800

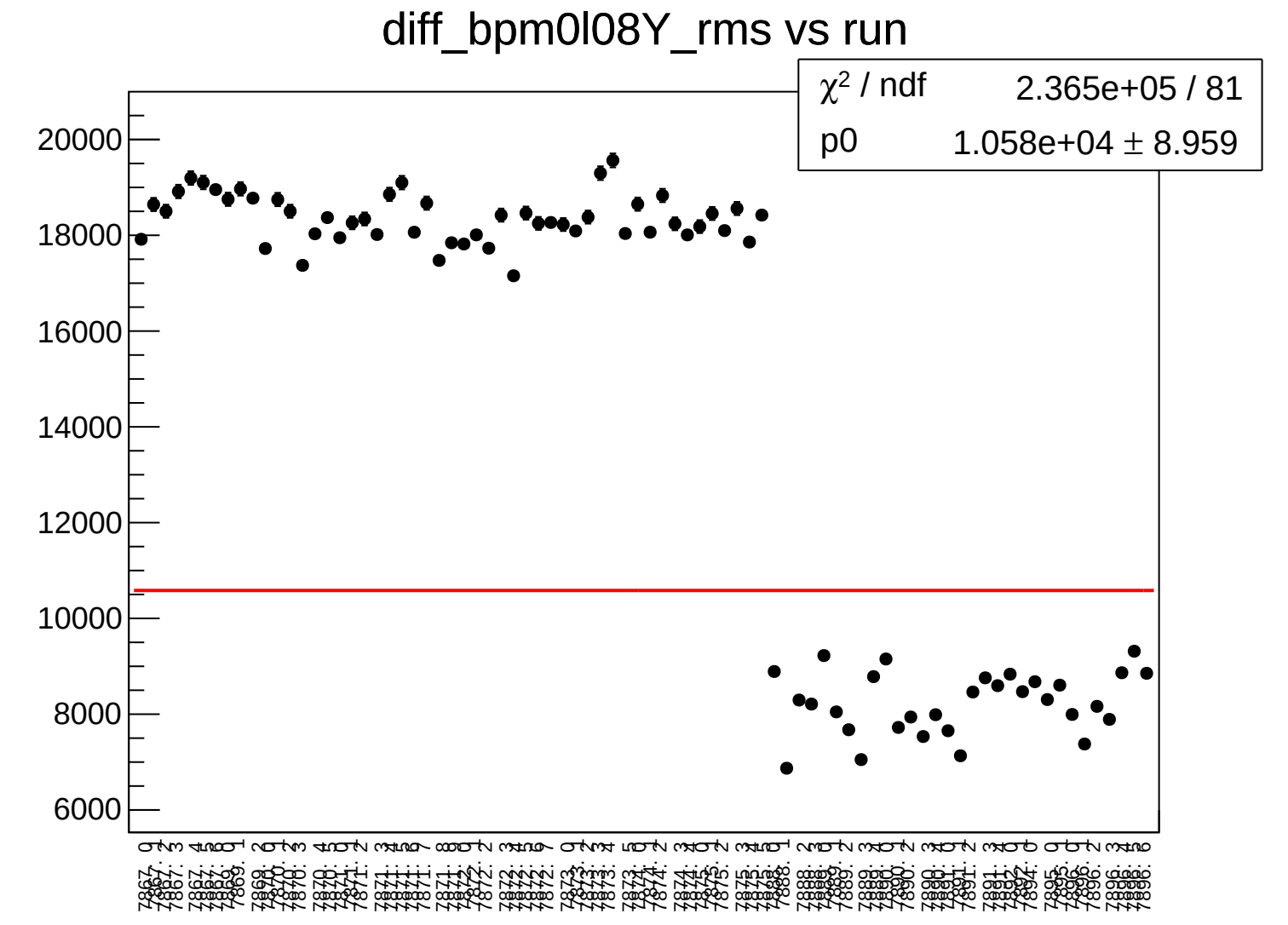

diff_bpm0l08X_mean vs run
χ² / ndf 80.88 / 81
p0 21.75 ± 16.01
pull
Entries 82
Mean 471.6
Std Dev 0

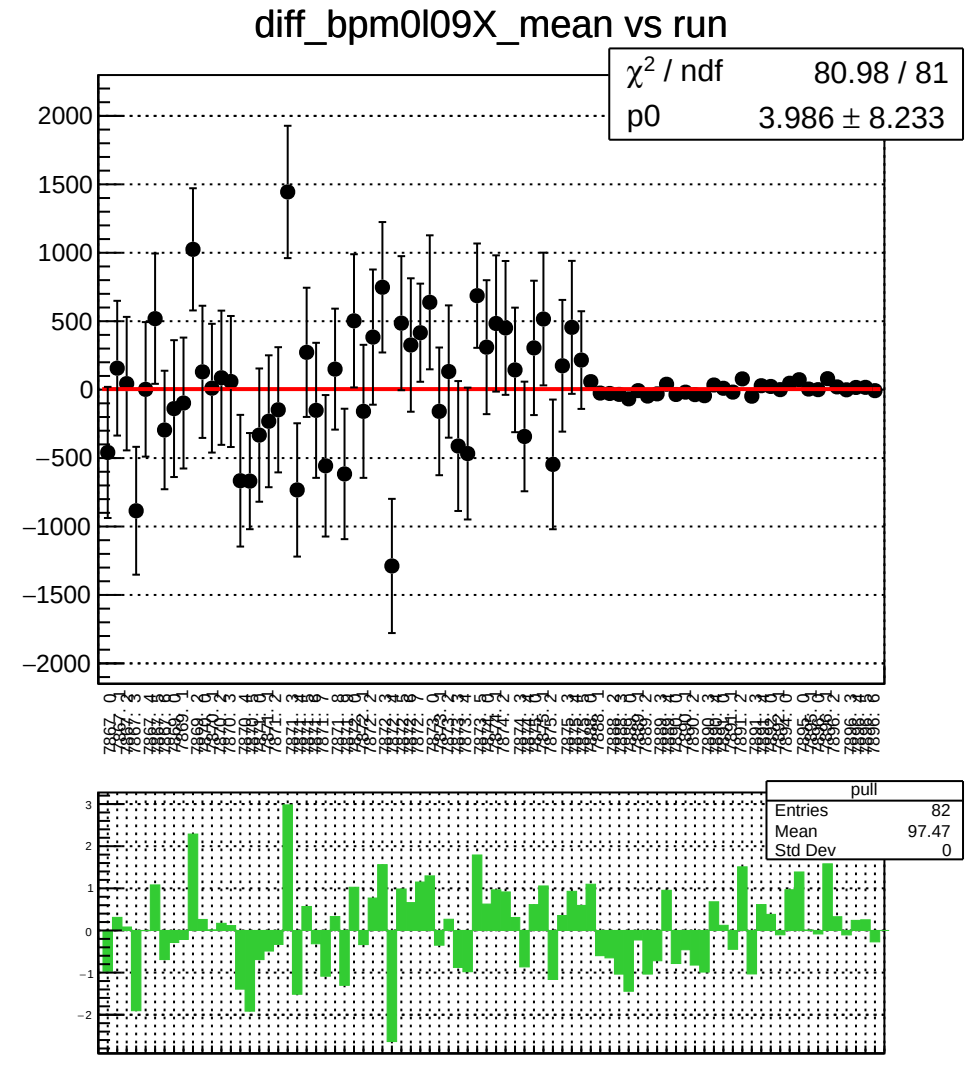

pull1D
Entries 82
Mean −0.00219
Std Dev 0.9931

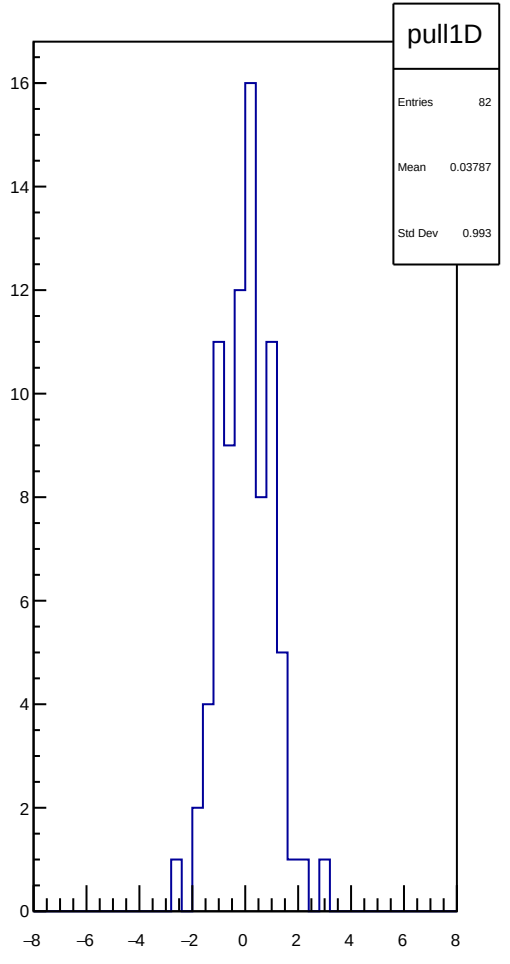

diff_bpm0l08X_rms vs run
χ² / ndf 1.798e+05 / 81
p0 1.364e+04 ± 11.32
24000
22000
20000
18000
16000
14000
12000
10000
8000

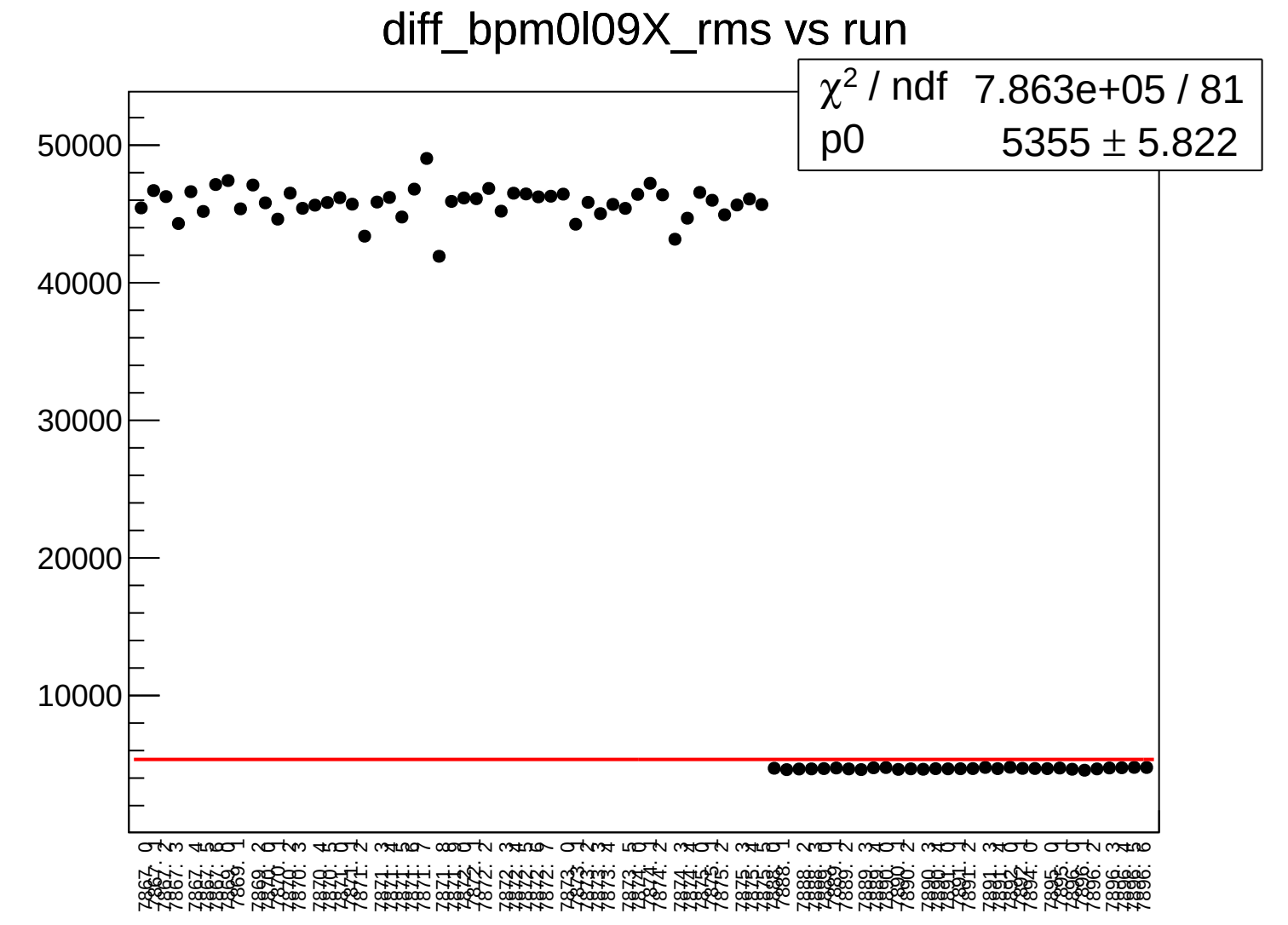

diff_bpm0l08Y_mean vs run
χ² / ndf 81.54 / 81
p0 −19.98 ± 12.67
pull
Entries 82
Mean 22.17
Std Dev 60.36

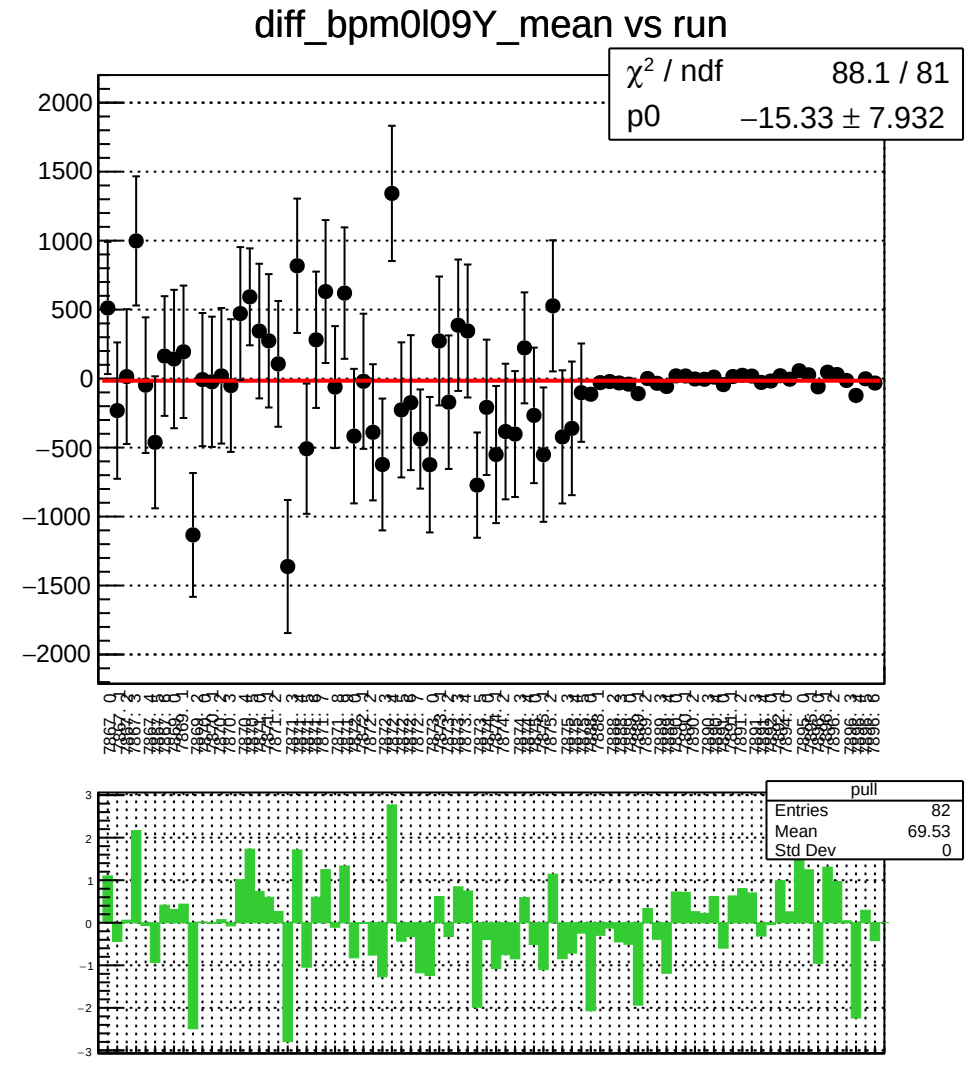

pull1D
Entries 82
Mean 0.02467
Std Dev 0.9969

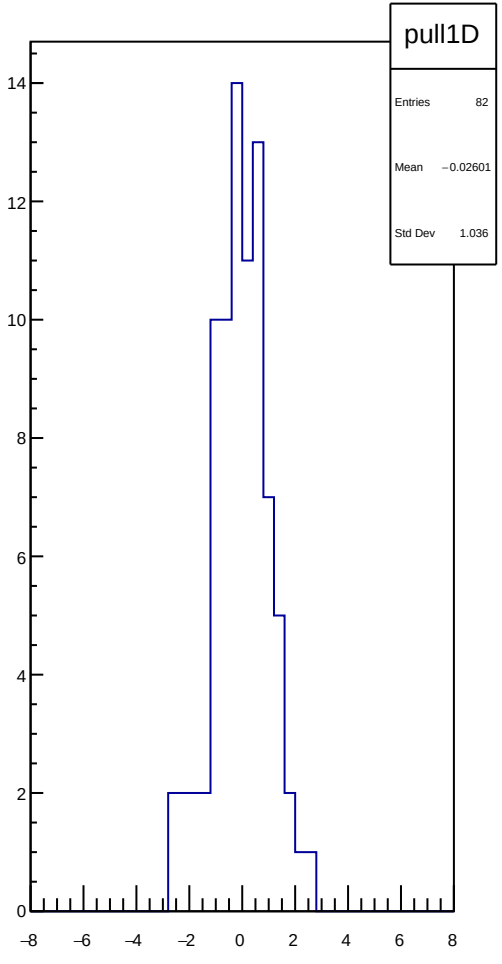

diff_bpm0l08Y_rms vs run
χ² / ndf 2.365e+05 / 81
p0 1.058e+04 ± 8.959
20000
18000
16000
14000
12000
10000
8000
6000

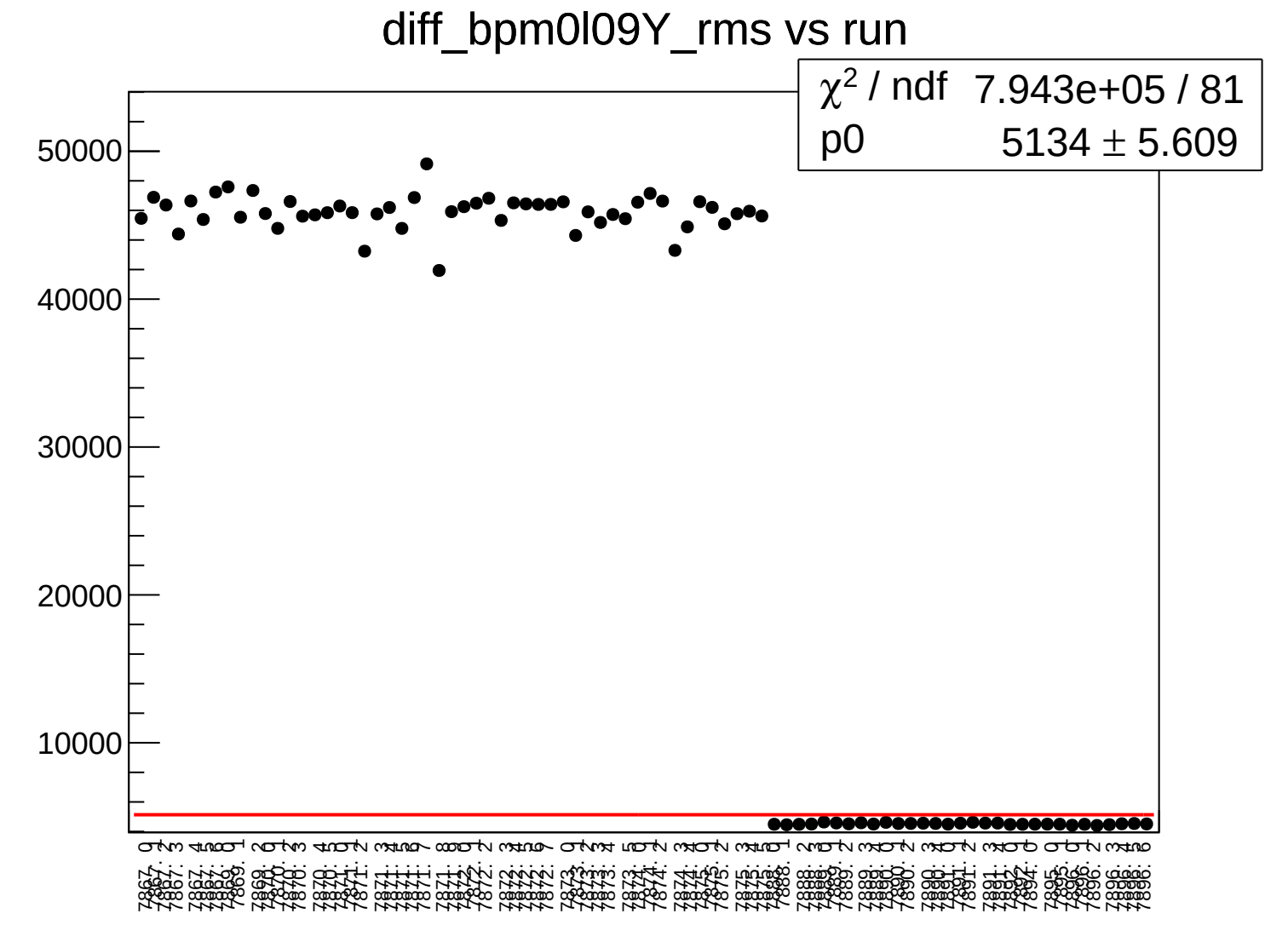

diff_bpm0l09X_mean vs run
χ² / ndf 80.98 / 81
p0 3.986 ± 8.233
pull
Entries 82
Mean 97.47
Std Dev 0

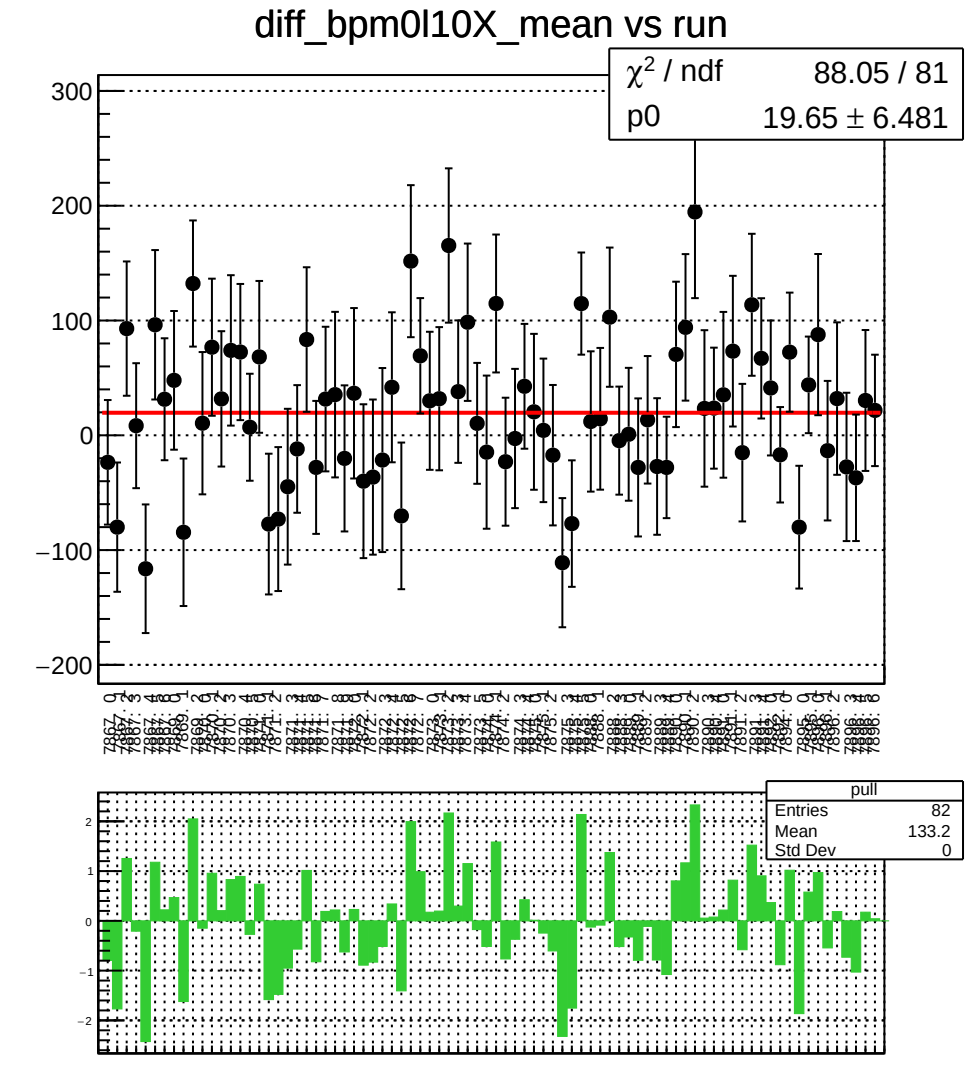

pull1D
Entries 82
Mean 0.03787
Std Dev 0.993

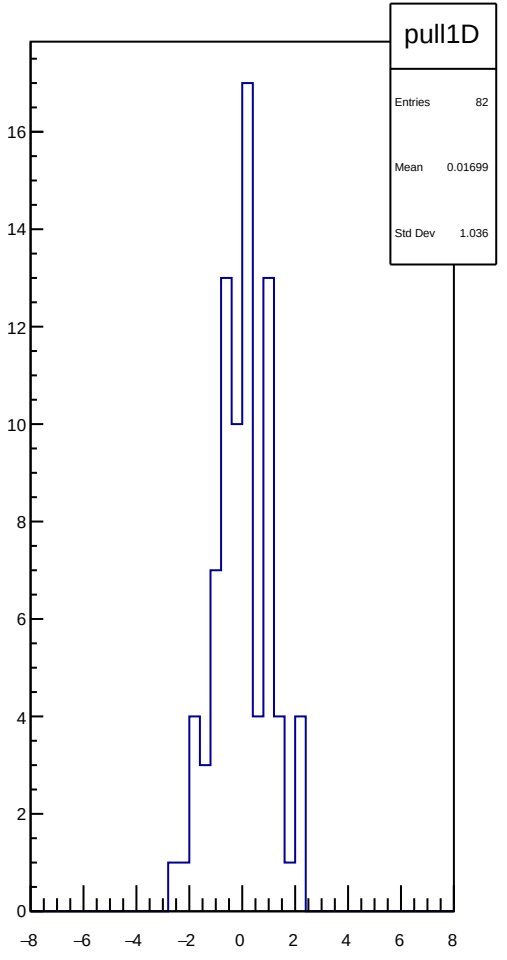

diff_bpm0l09X_rms vs run
χ² / ndf 7.863e+05 / 81
p0 5355 ± 5.822
50000
40000
30000
20000
10000

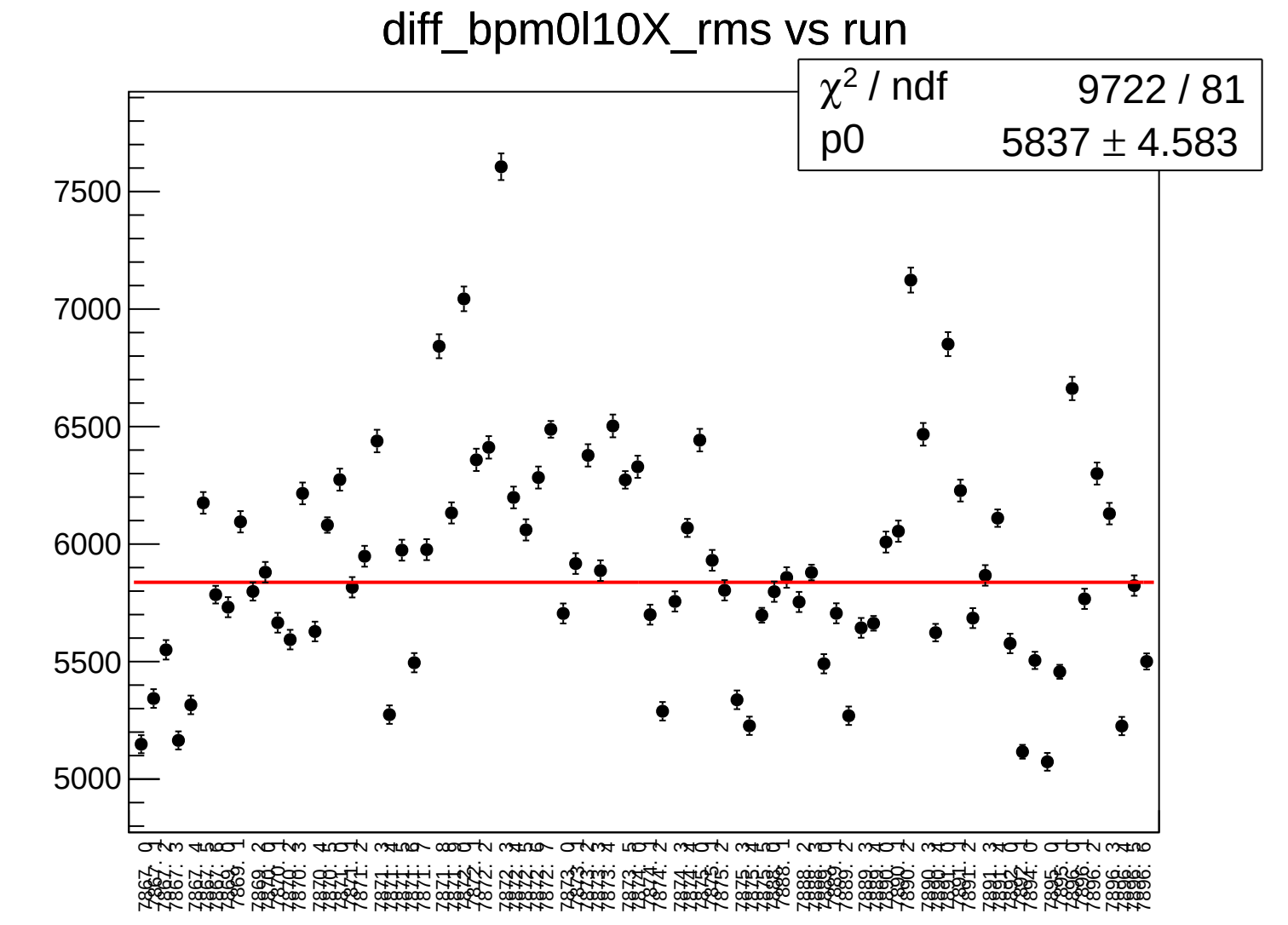

diff_bpm0l09Y_mean vs run
χ² / ndf 88.1 / 81
p0 −15.33 ± 7.932
pull
Entries 82
Mean 69.53
Std Dev 0

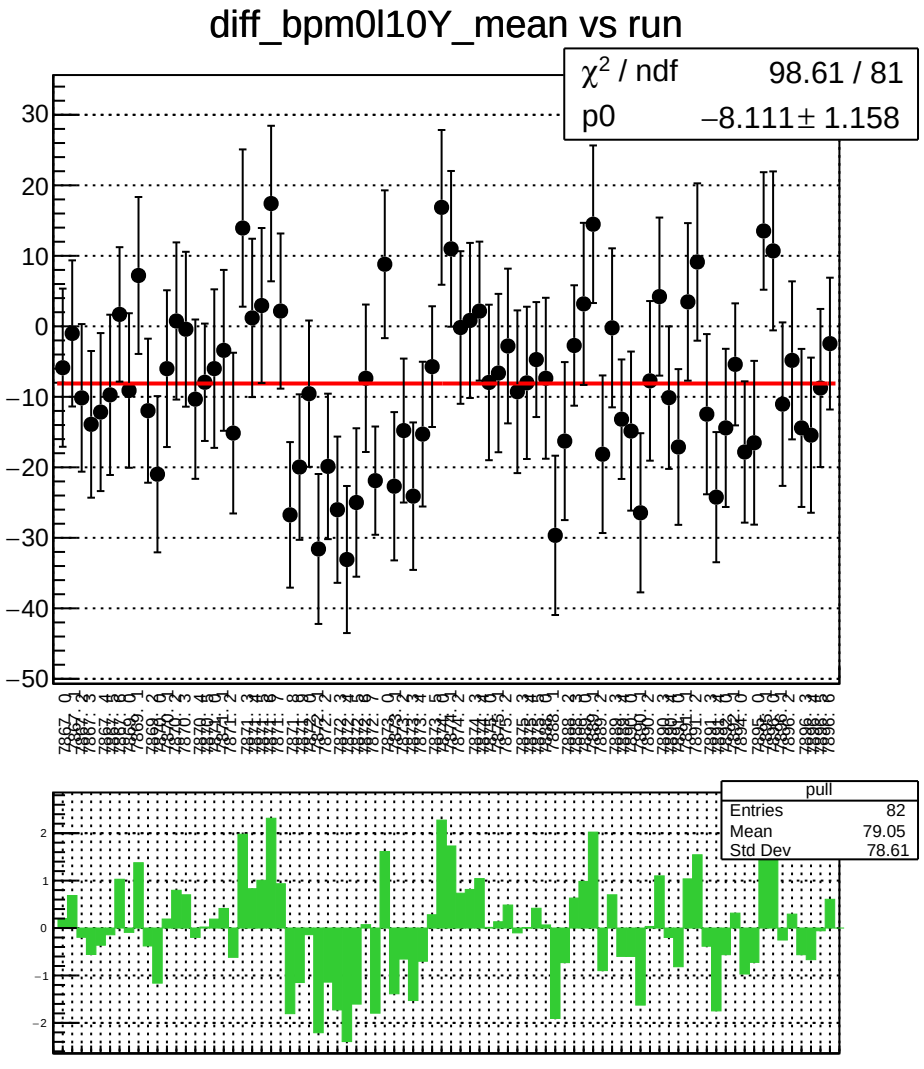

pull1D
Entries 82
Mean −0.02601
Std Dev 1.036

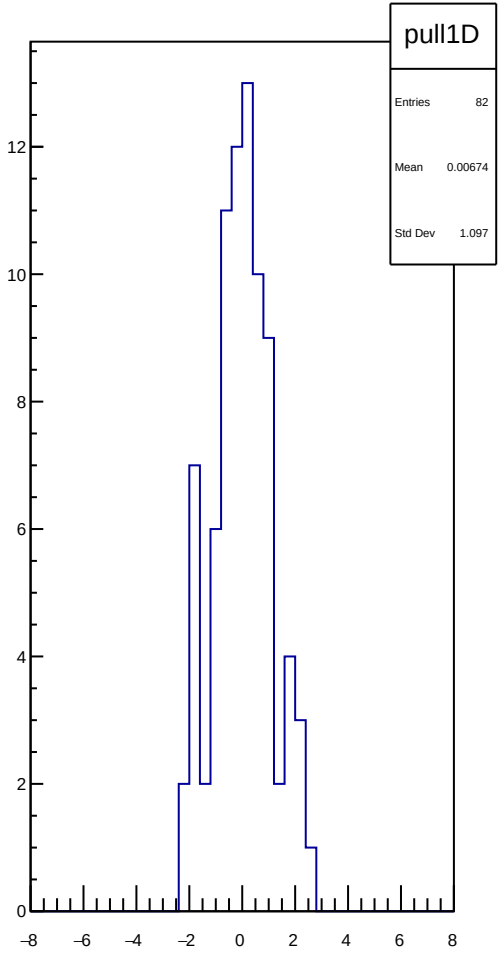

diff_bpm0l09Y_rms vs run
χ² / ndf 7.943e+05 / 81
p0 5134 ± 5.609
50000
40000
30000
20000
10000

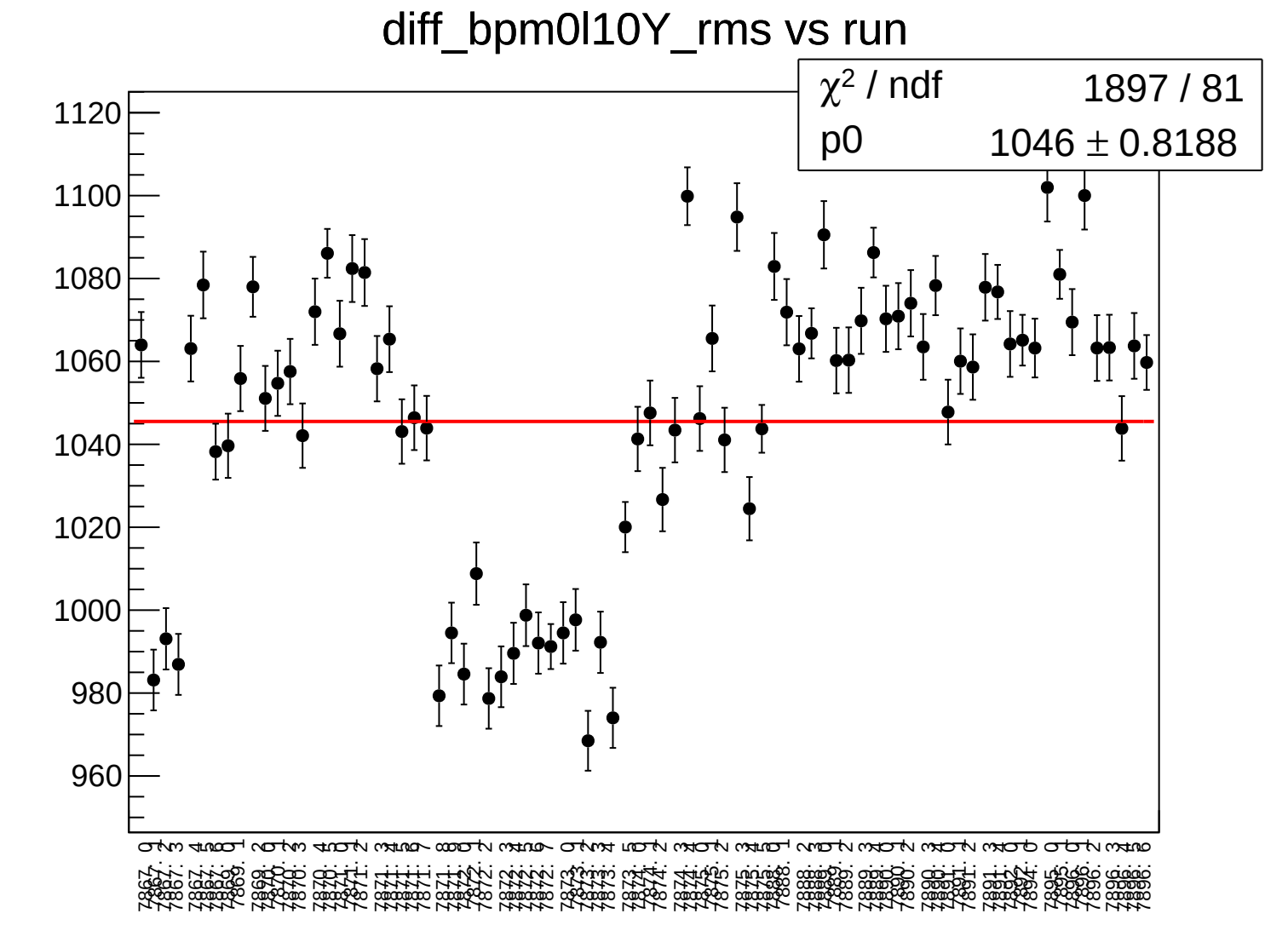

diff_bpm0l10X_mean vs run
χ² / ndf 88.05 / 81
p0 19.65 ± 6.481
pull
Entries 82
Mean 133.2
Std Dev 0

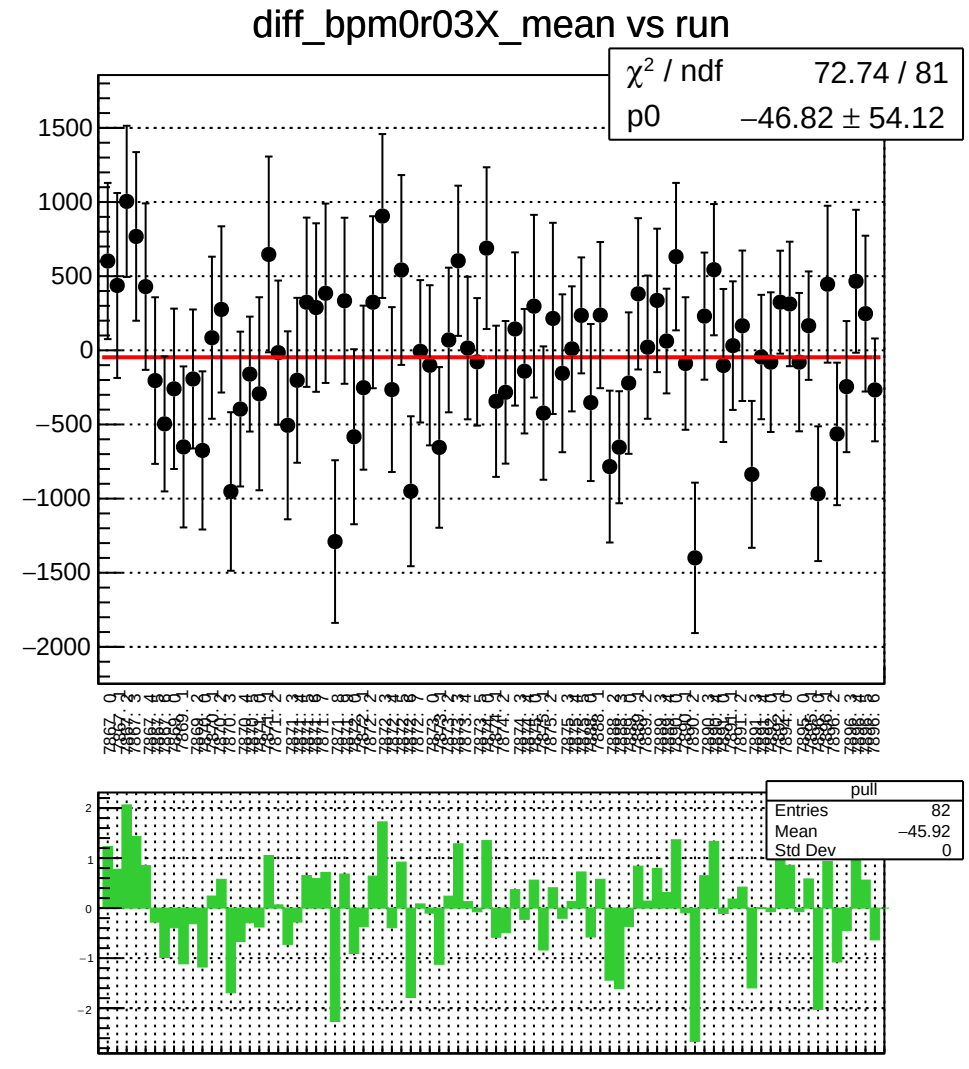

pull1D
Entries 82
Mean 0.01699
Std Dev 1.036

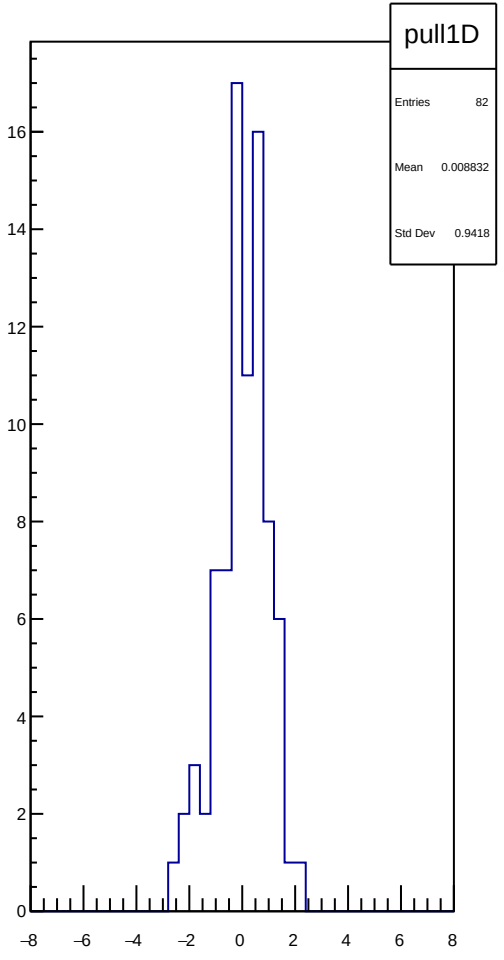

diff_bpm0l10X_rms vs run
χ^2 / ndf 9722 / 81
p0 5837 ± 4.583
7500
7000
6500
6000
5500
5000

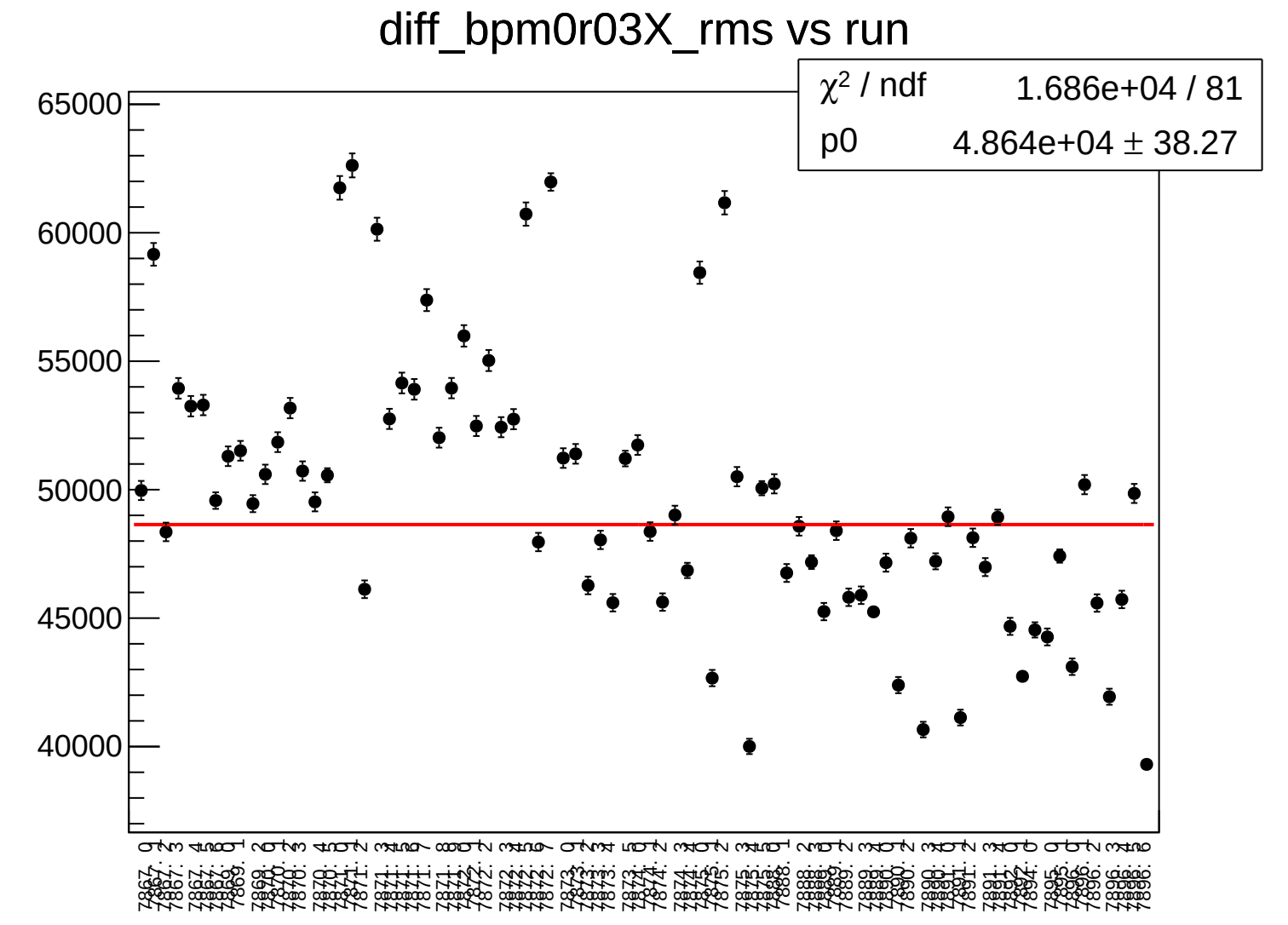

diff_bpm0l10Y_mean vs run
χ² / ndf 98.61 / 81
p0 −8.111 ± 1.158
pull
Entries 82
Mean 79.05
Std Dev 78.61

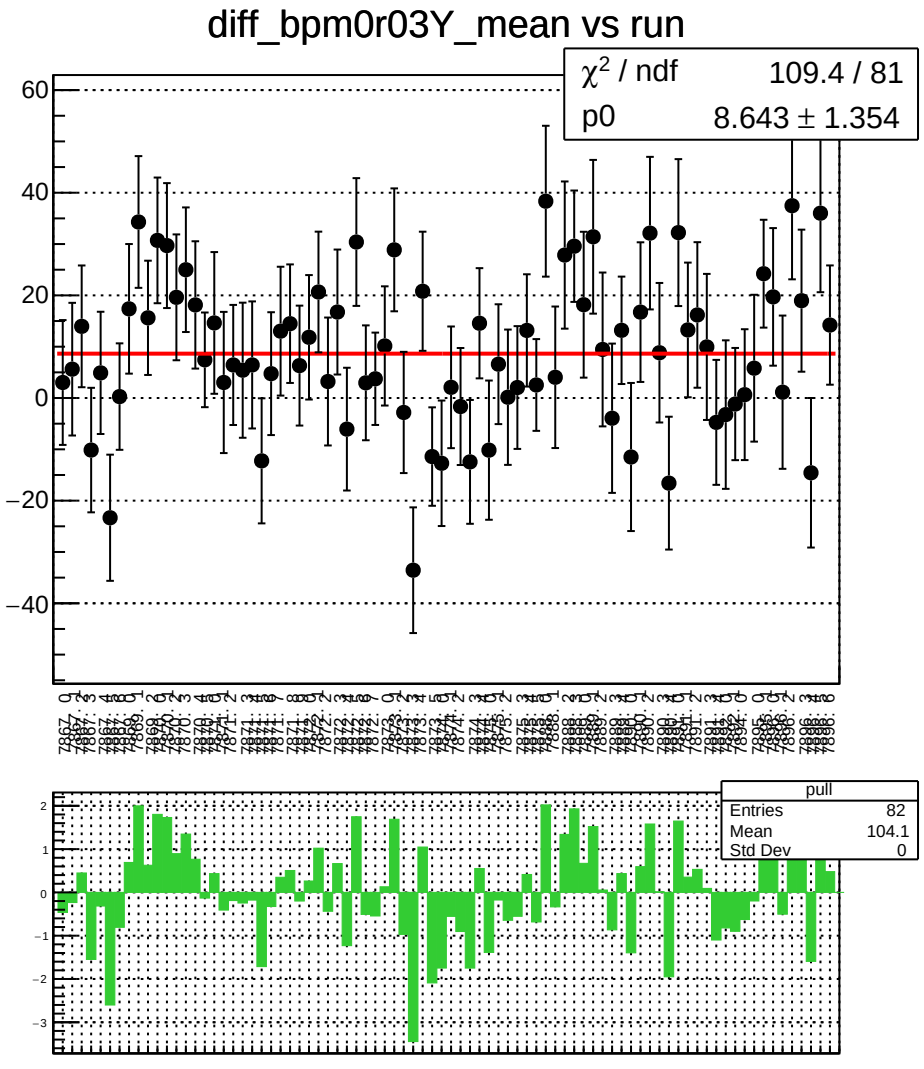

pull1D
Entries 82
Mean 0.00674
Std Dev 1.097

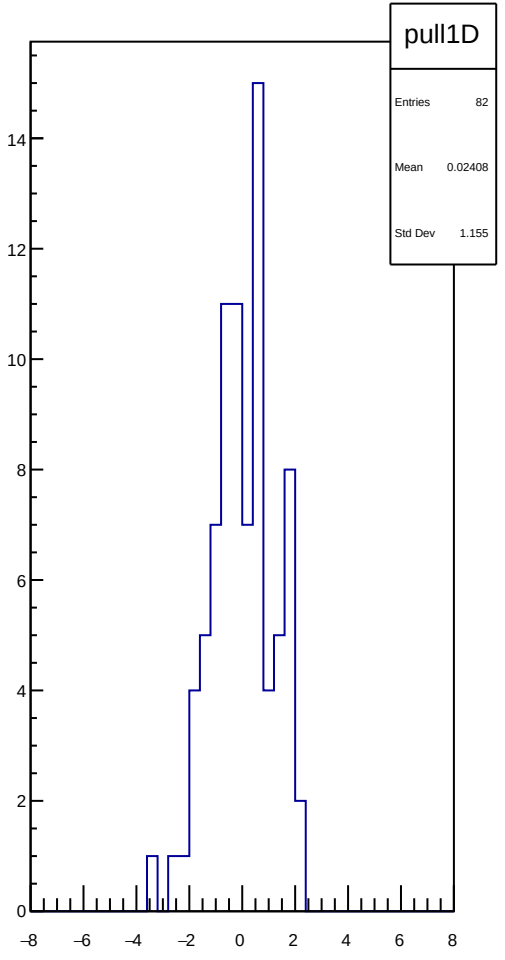

diff_bpm0l10Y_rms vs run
χ² / ndf 1897 / 81
p0 1046 ± 0.8188
1120
1100
1080
1060
1040
1020
1000
980
960

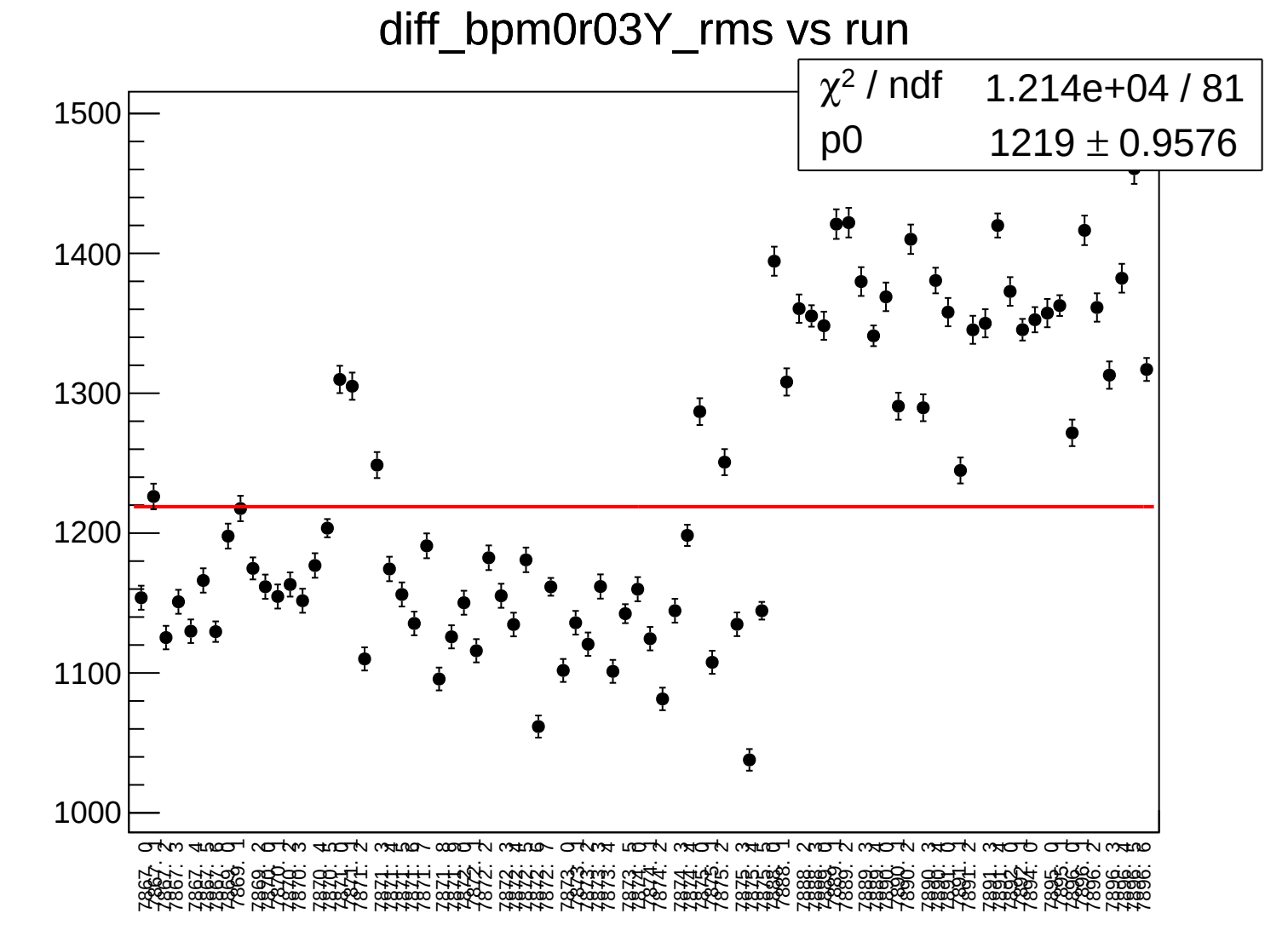

diff_bpm0r03X_mean vs run
χ² / ndf 72.74 / 81
p0 −46.82 ± 54.12
pull
Entries 82
Mean −45.92
Std Dev 0

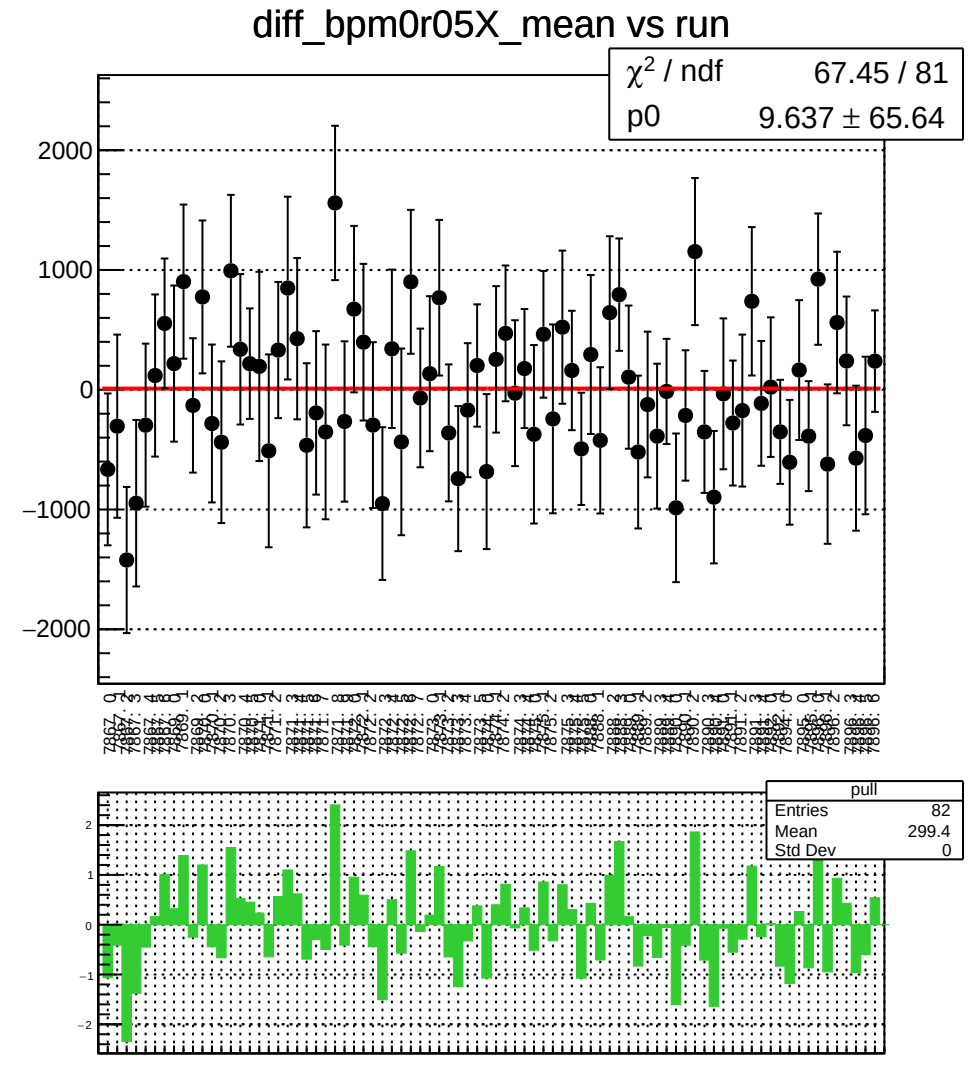

pull1D
Entries 82
Mean 0.008832
Std Dev 0.9418

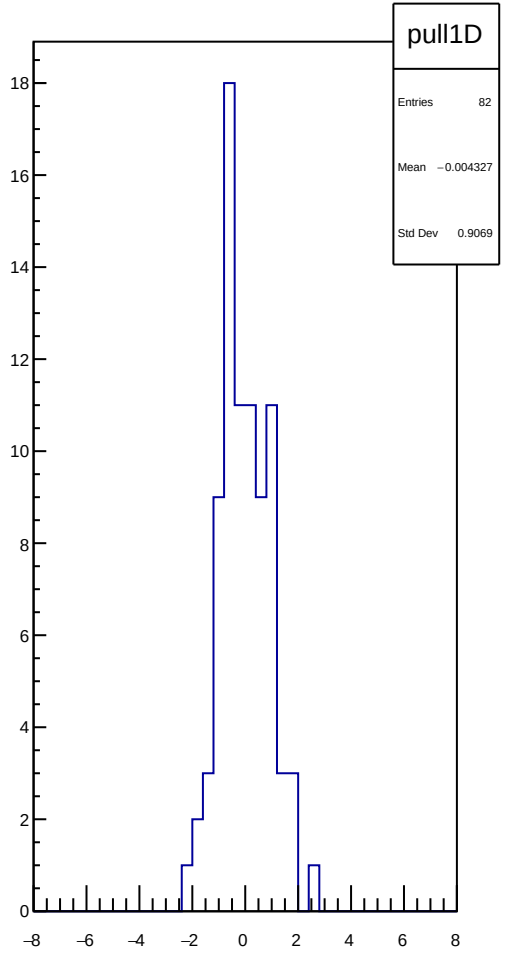

diff_bpm0r03X_rms vs run
χ² / ndf 1.686e+04 / 81
p0 4.864e+04 ± 38.27
65000
60000
55000
50000
45000
40000

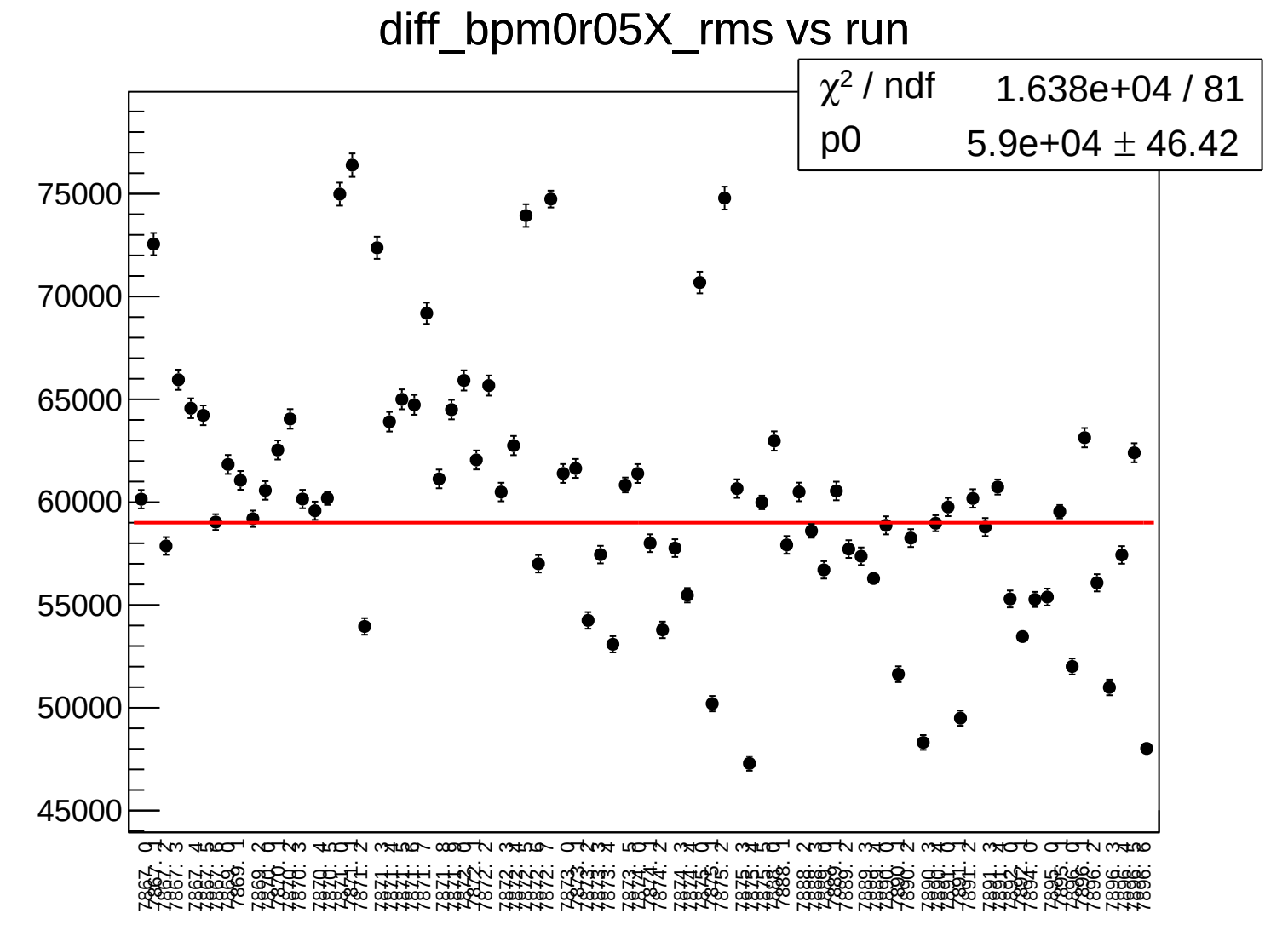

diff_bpm0r03Y_mean vs run
χ² / ndf 109.4 / 81
p0 8.643 ± 1.354
pull
Entries 82
Mean 104.1
Std Dev 0

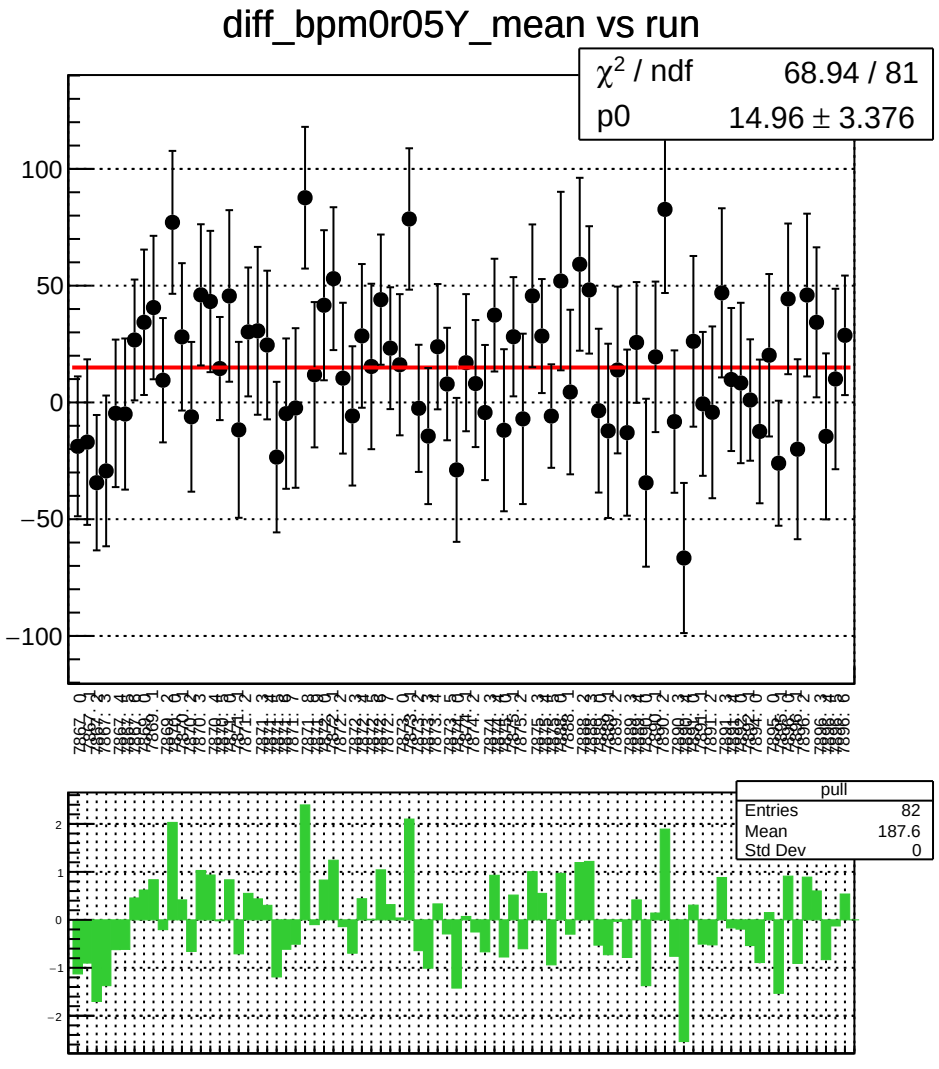

pull1D
Entries 82
Mean 0.02408
Std Dev 1.155

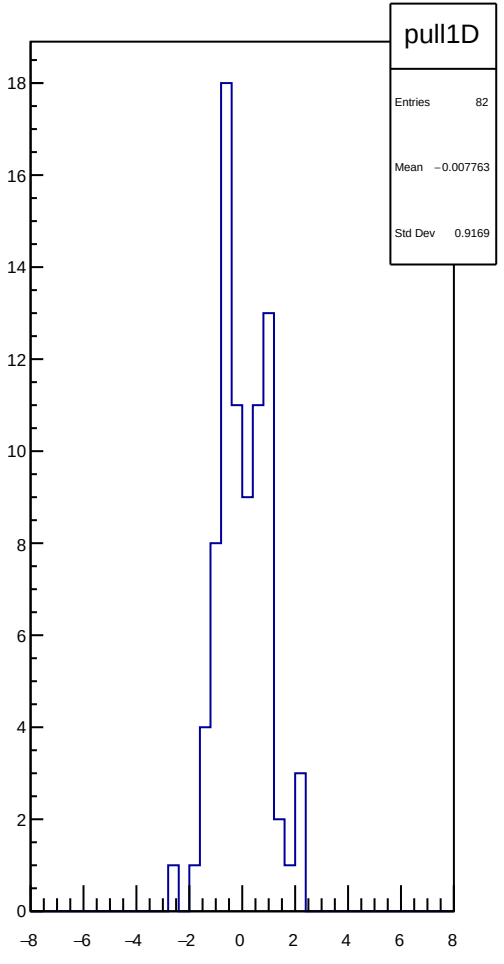

diff_bpm0r03Y_rms vs run
χ² / ndf 1.214e+04 / 81
p0 1219 ± 0.9576
1500
1400
1300
1200
1100
1000

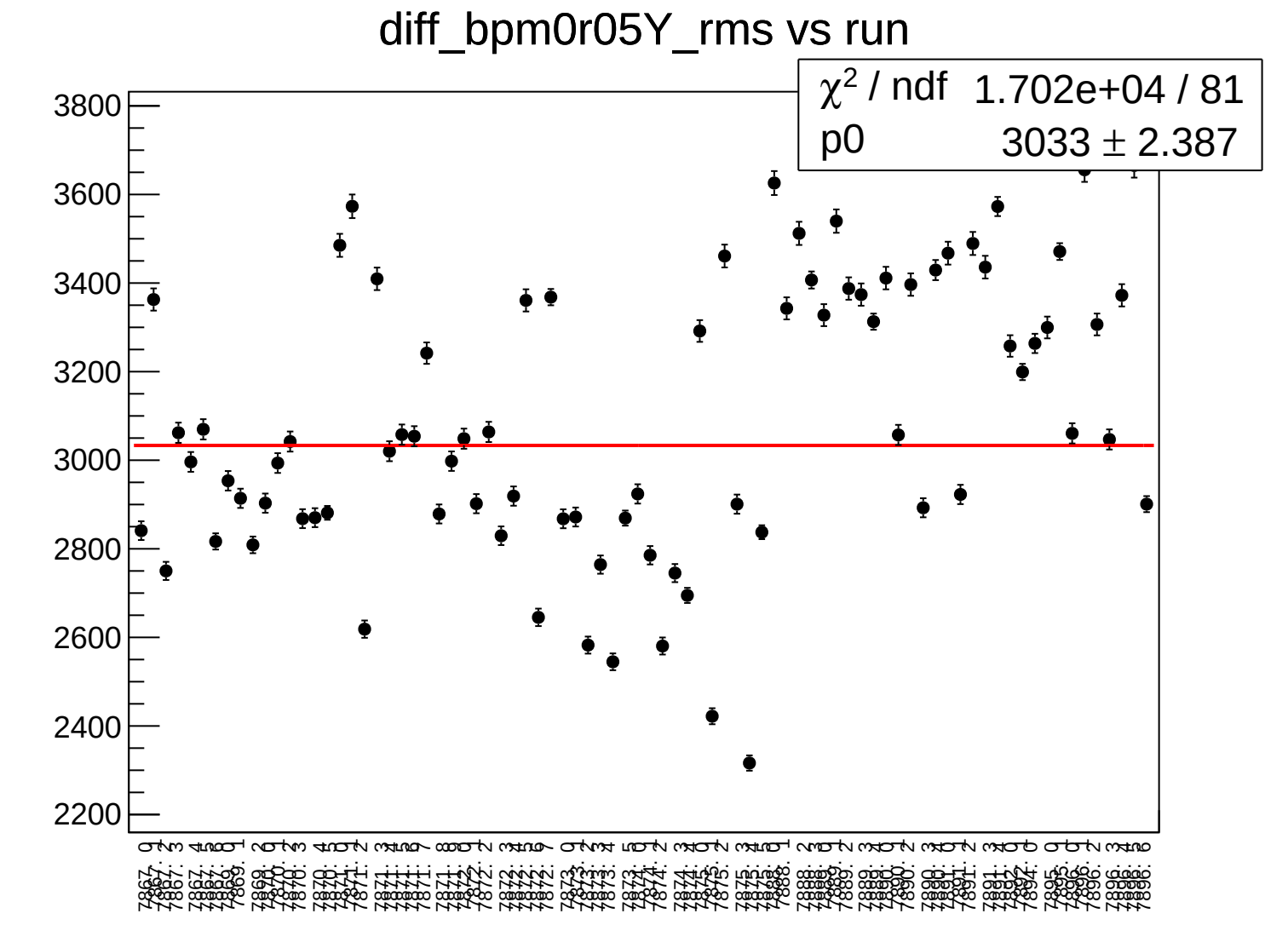

diff_bpm0r05X_mean vs run
χ² / ndf 67.45 / 81
p0 9.637 ± 65.64
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 299.4
Std Dev 0
2
1
0
−1
−2

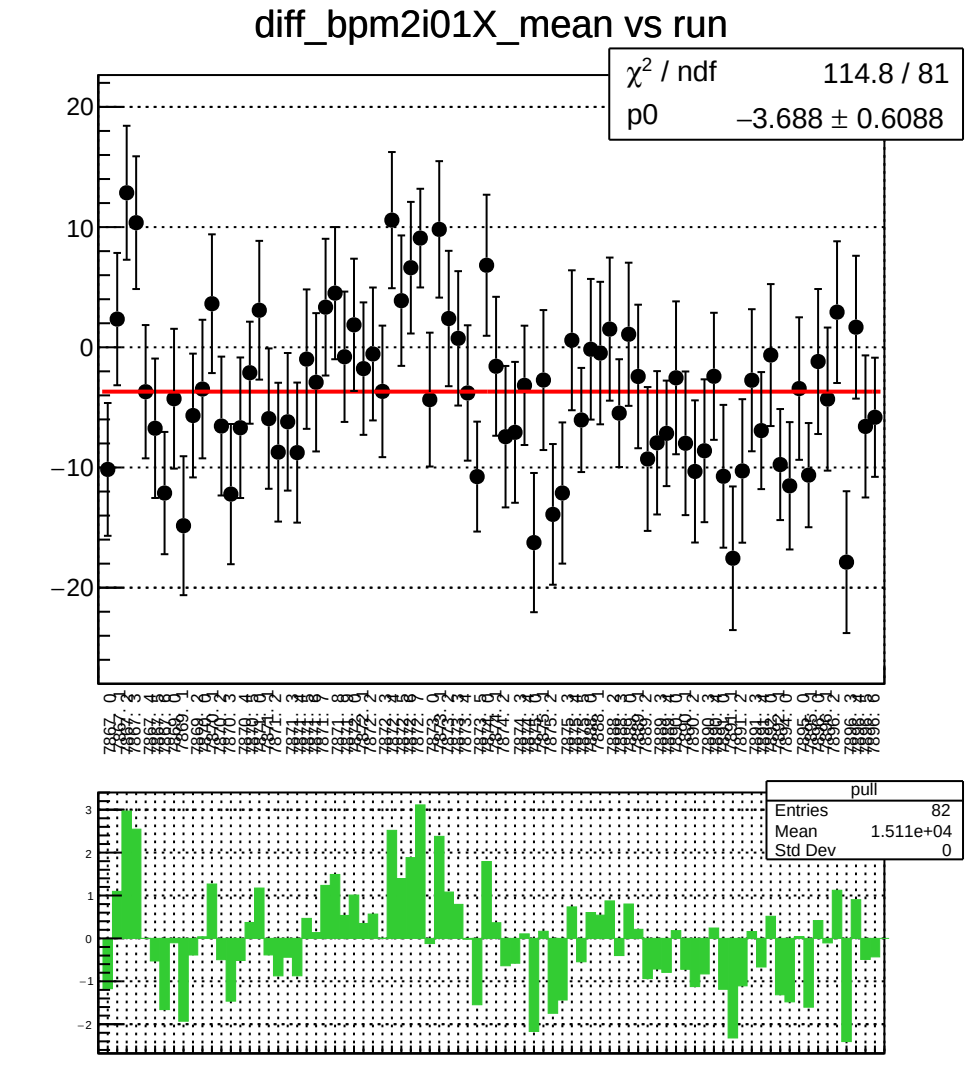

pull1D
Entries 82
Mean −0.004327
Std Dev 0.9069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

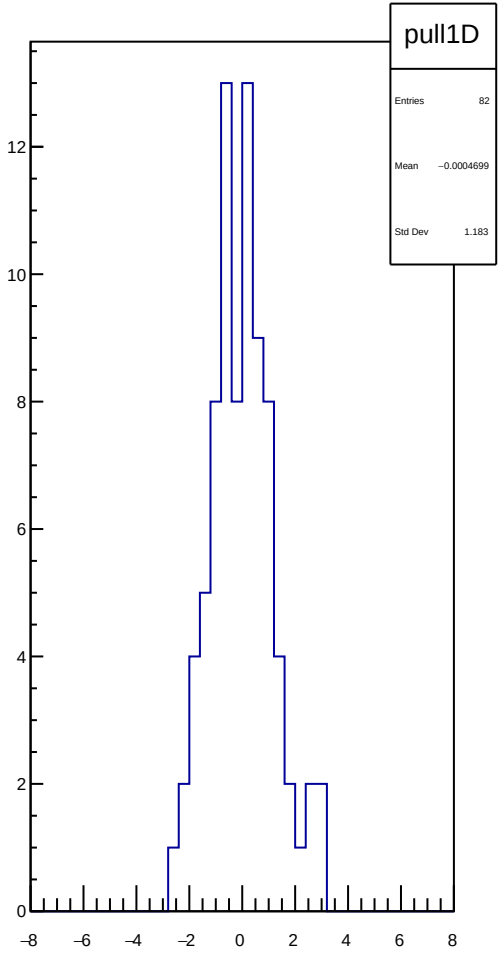

diff_bpm0r05X_rms vs run
χ² / ndf 1.638e+04 / 81
p0 5.9e+04 ± 46.42
75000
70000
65000
60000
55000
50000
45000

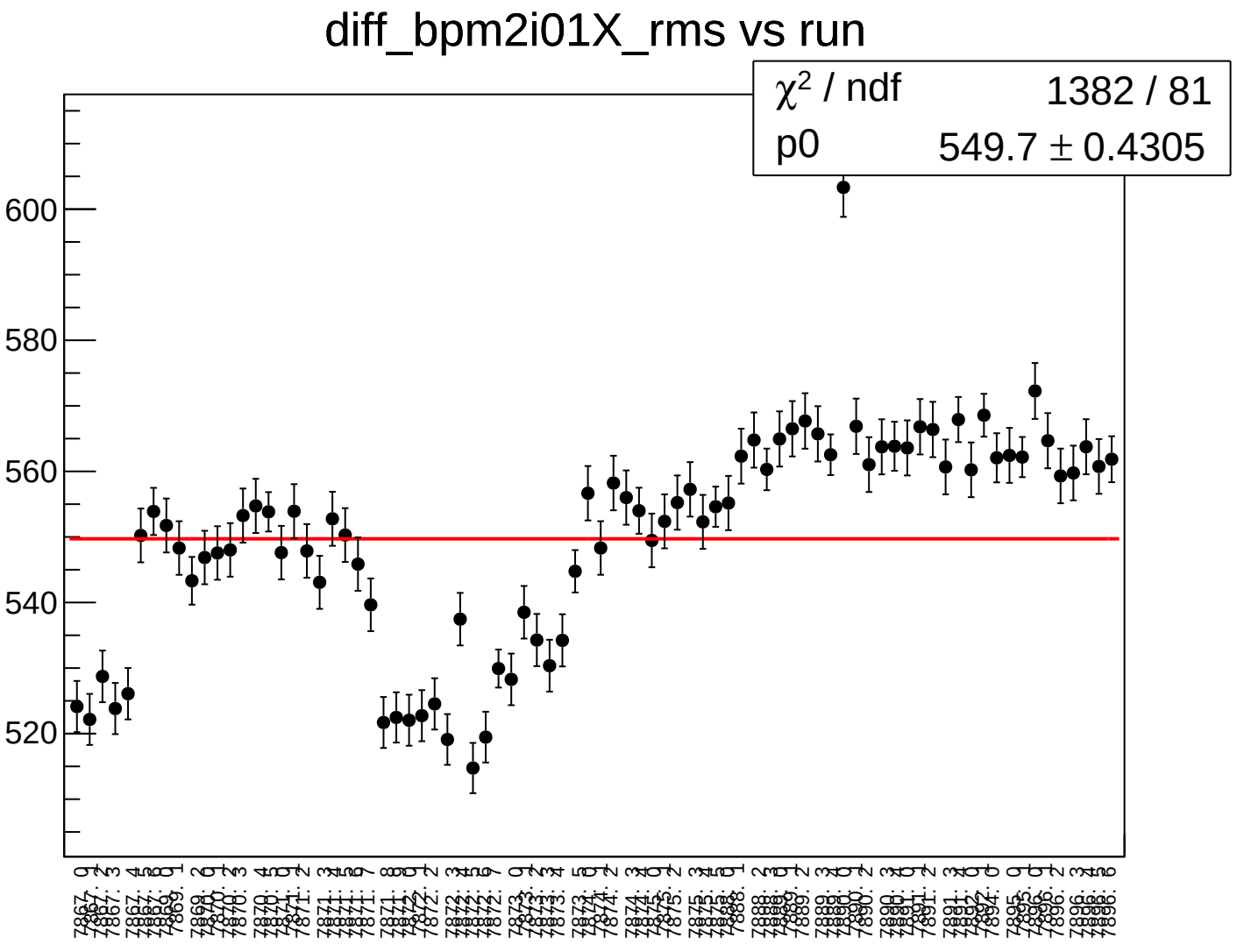

diff_bpm0r05Y_mean vs run
χ² / ndf 68.94 / 81
p0 14.96 ± 3.376
100
50
0
−50
−100
pull
Entries 82
Mean 187.6
Std Dev 0
2
1
0
−1
−2

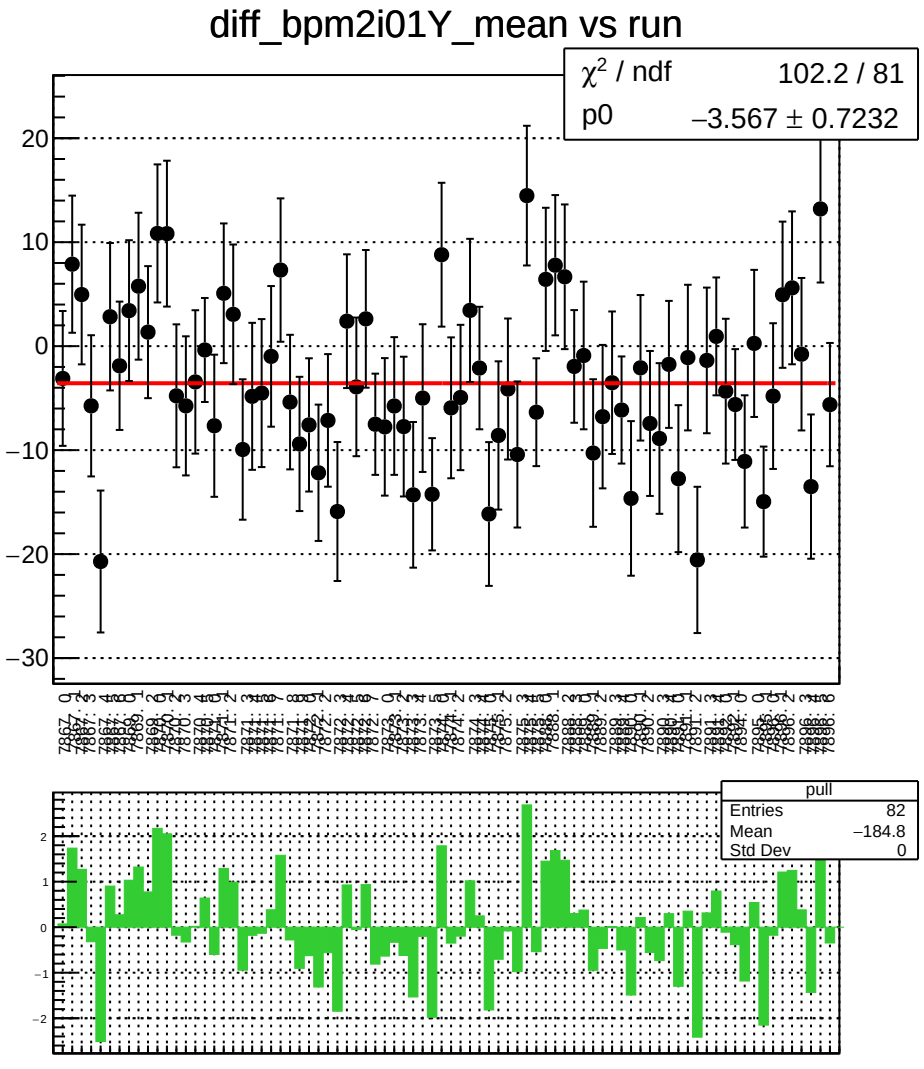

pull1D
Entries 82
Mean −0.007763
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

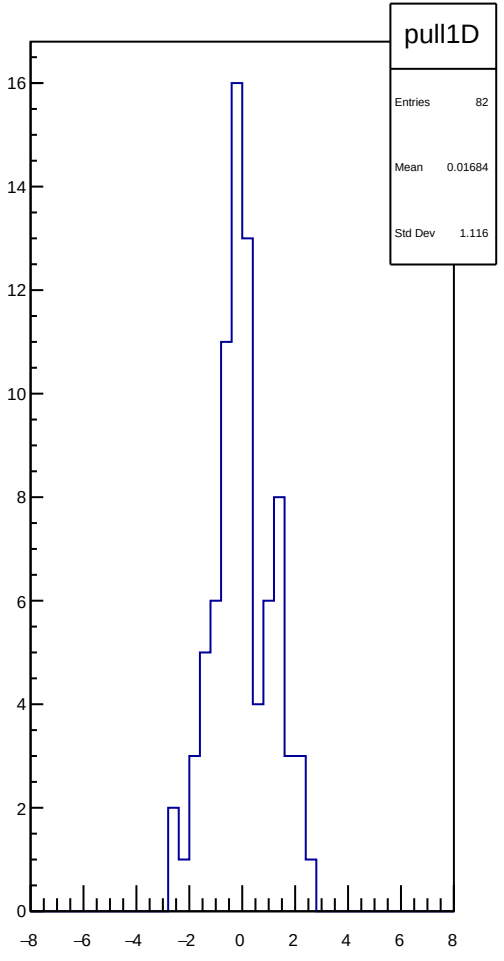

diff_bpm0r05Y_rms vs run
χ² / ndf 1.702e+04 / 81
p0 3033 ± 2.387
3800
3600
3400
3200
3000
2800
2600
2400
2200

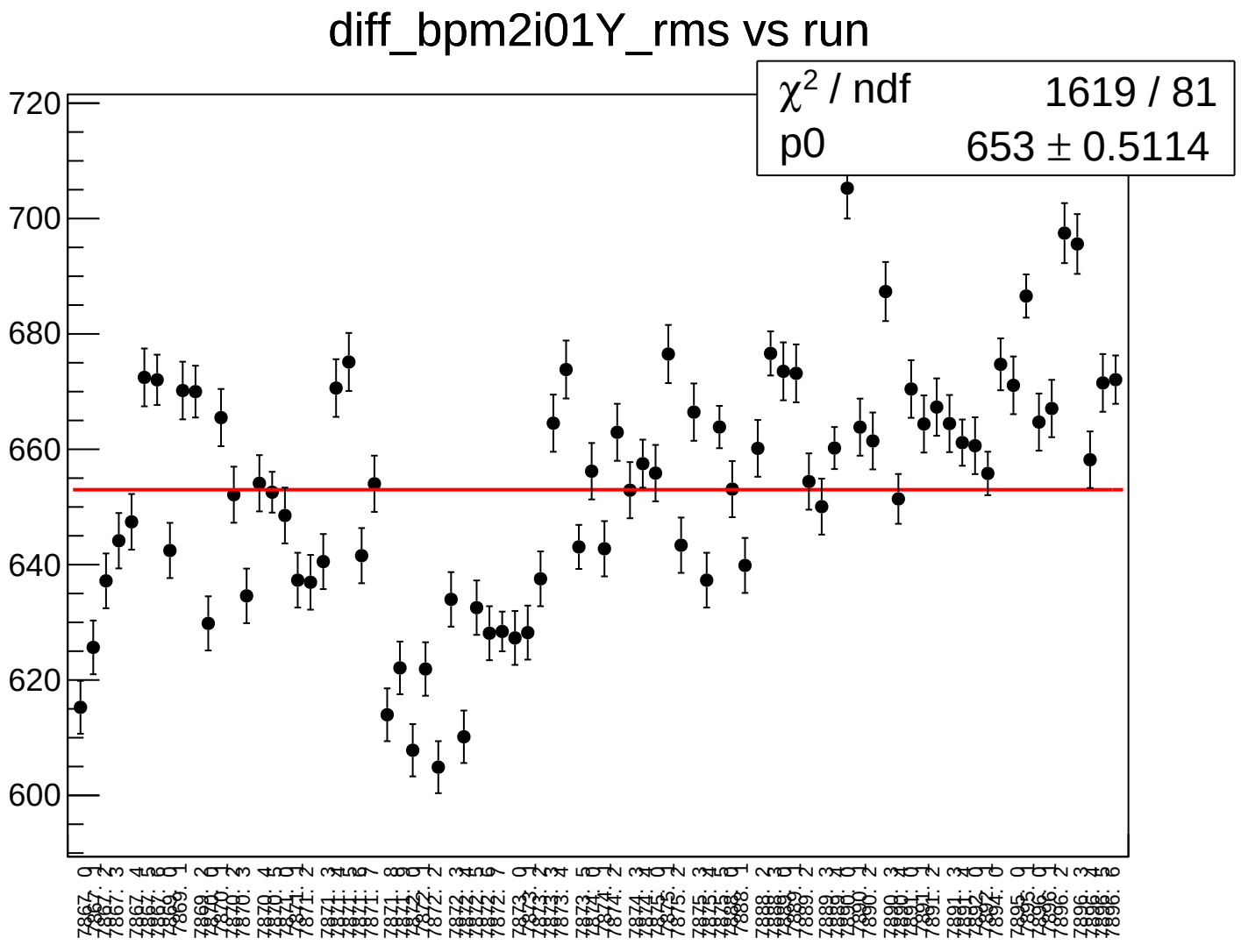

diff_bpm2i01X_mean vs run
χ² / ndf 114.8 / 81
p0 −3.688 ± 0.6088
pull
Entries 82
Mean 1.511e+04
Std Dev 0

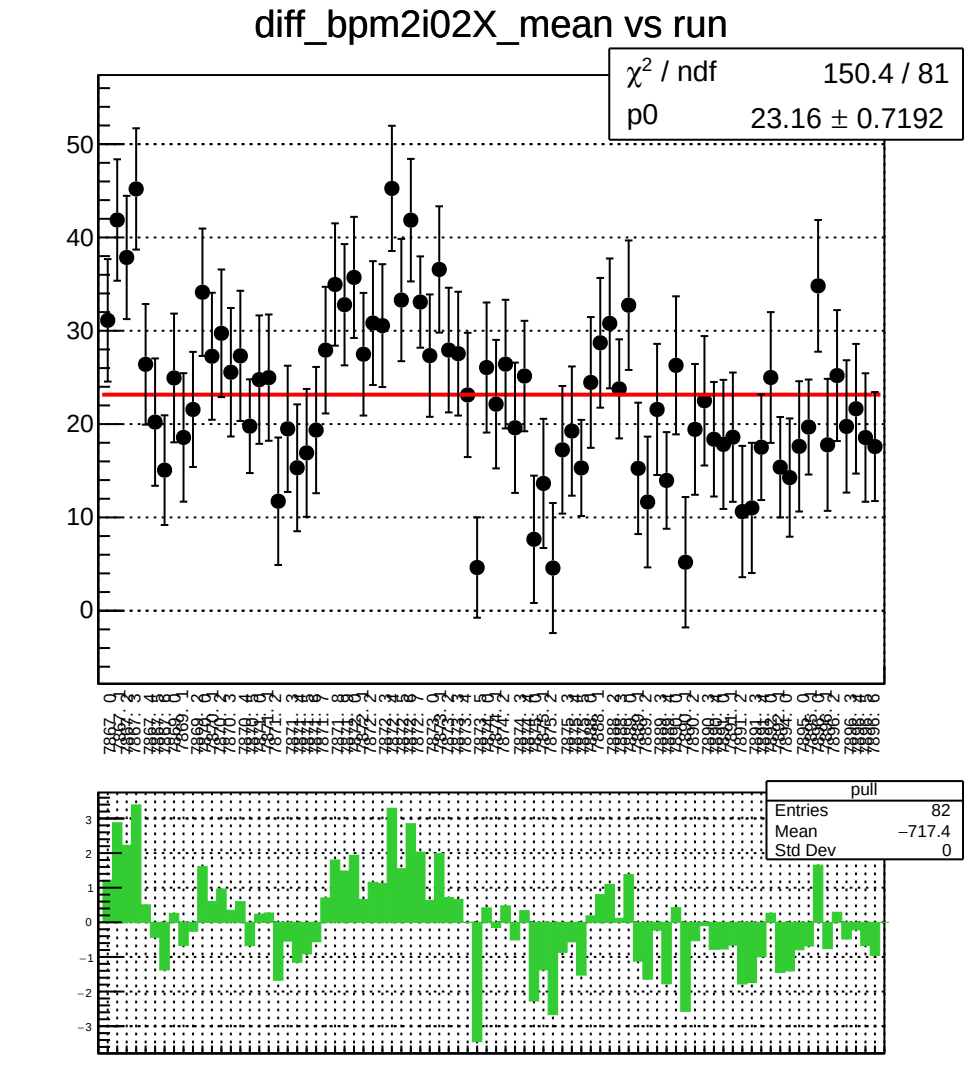

pull1D
Entries 82
Mean −0.0004699
Std Dev 1.183

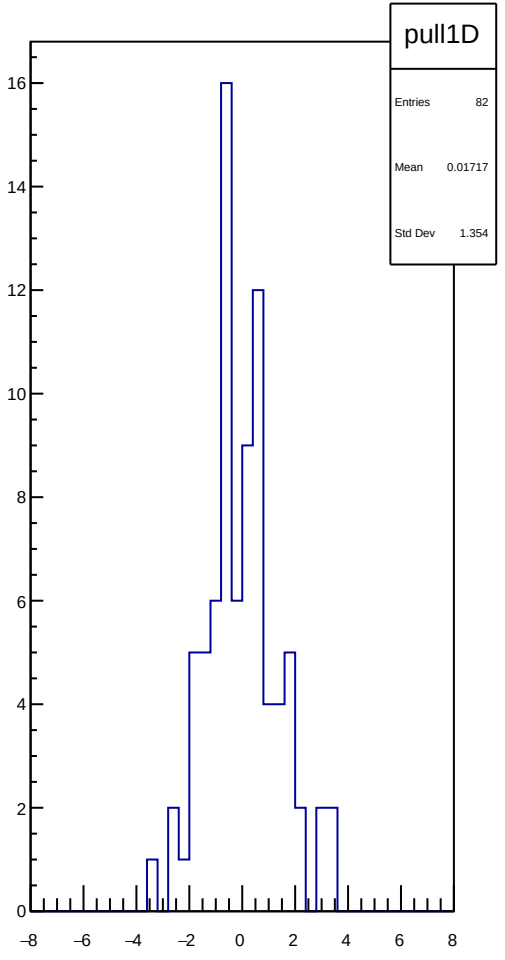

diff_bpm2i01X_rms vs run
χ² / ndf 1382 / 81
p0 549.7 ± 0.4305
600
580
560
540
520

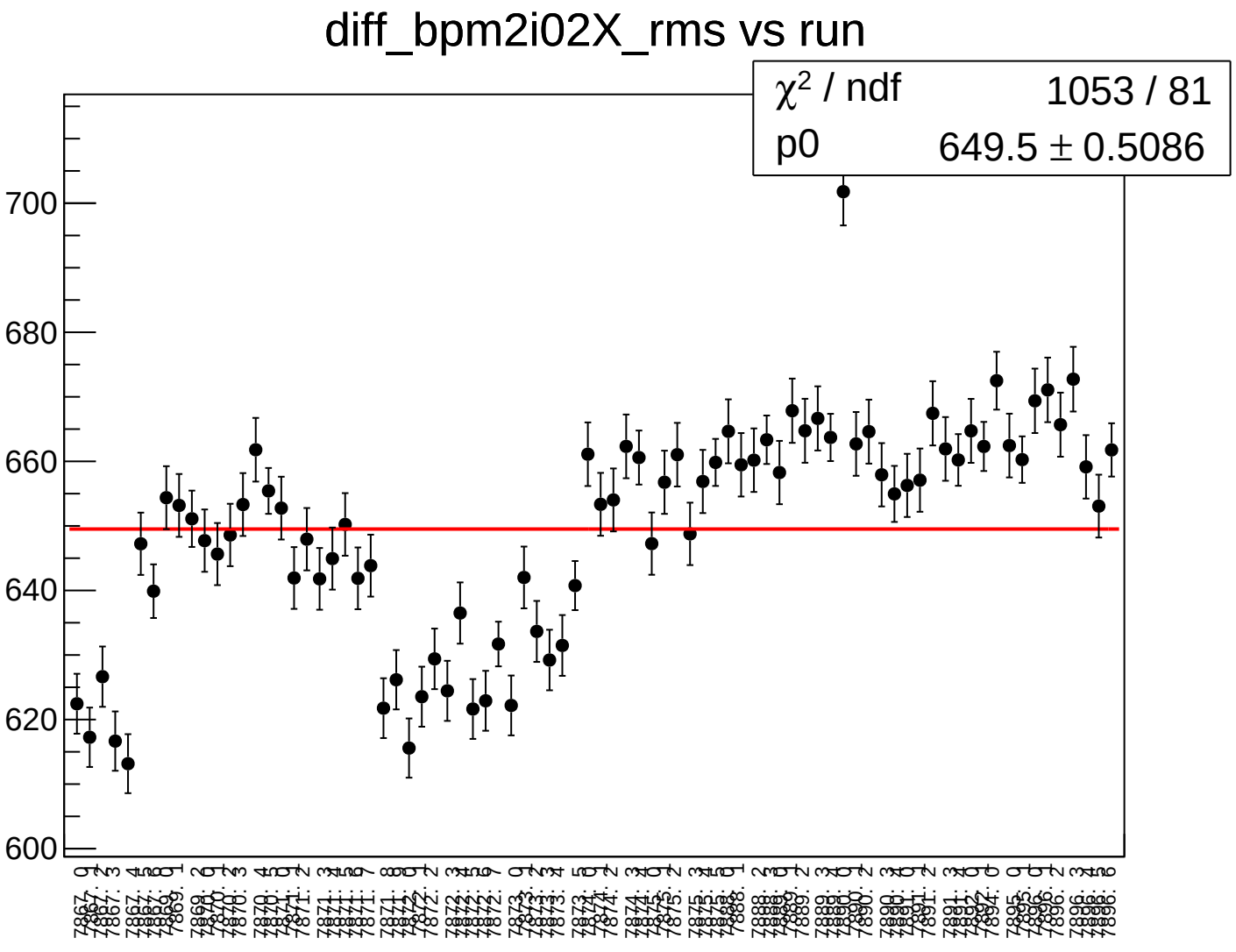

diff_bpm2i01Y_mean vs run
χ² / ndf 102.2 / 81
p0 −3.567 ± 0.7232
pull
Entries 82
Mean −184.8
Std Dev 0

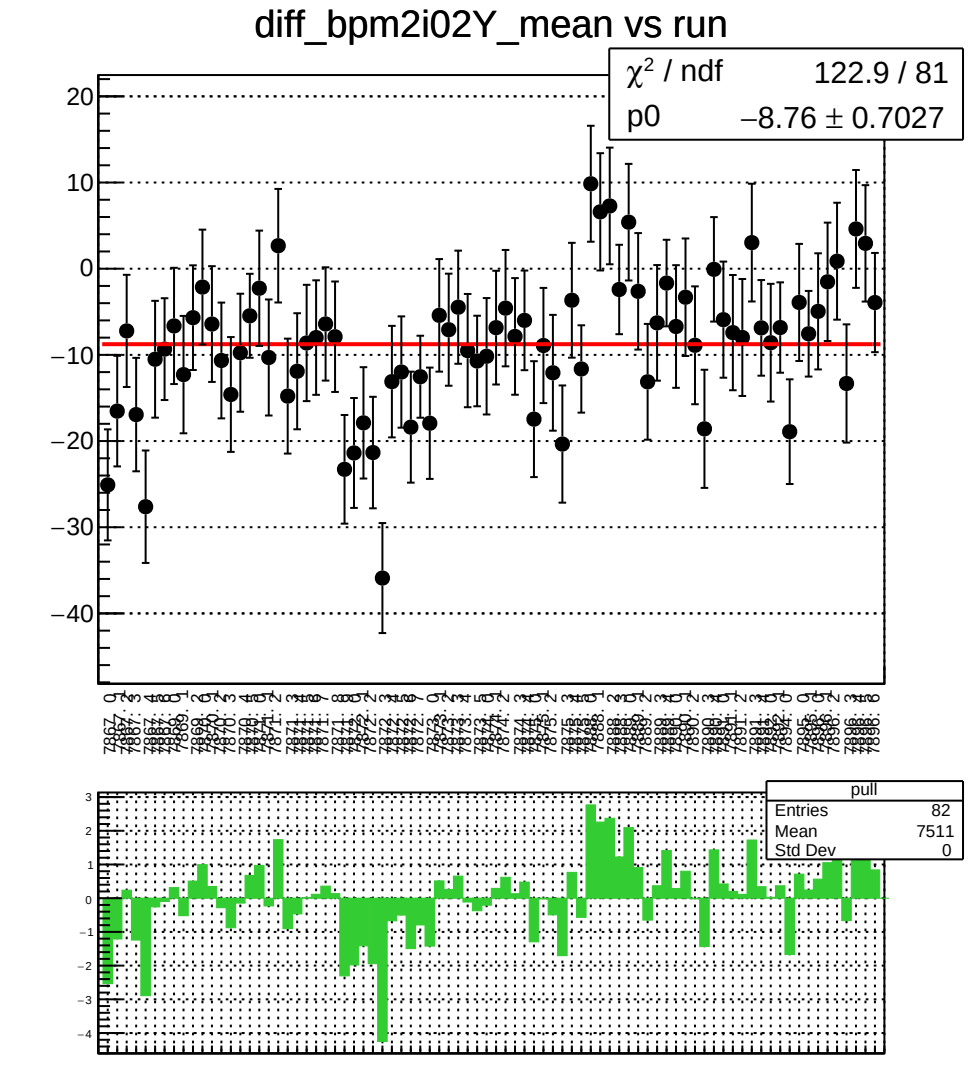

pull1D
Entries 82
Mean 0.01684
Std Dev 1.116

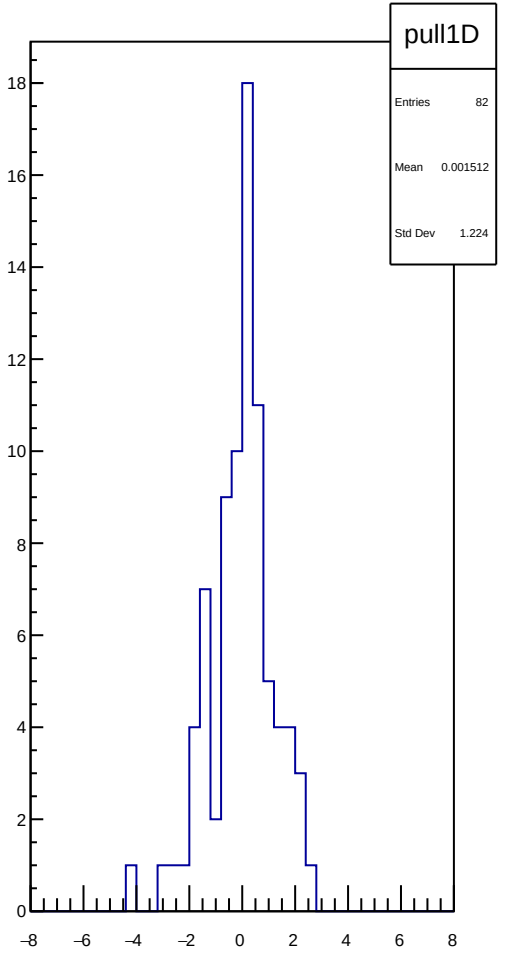

diff_bpm2i01Y_rms vs run
χ² / ndf 1619 / 81
p0 653 ± 0.5114
720
700
680
660
640
620
600

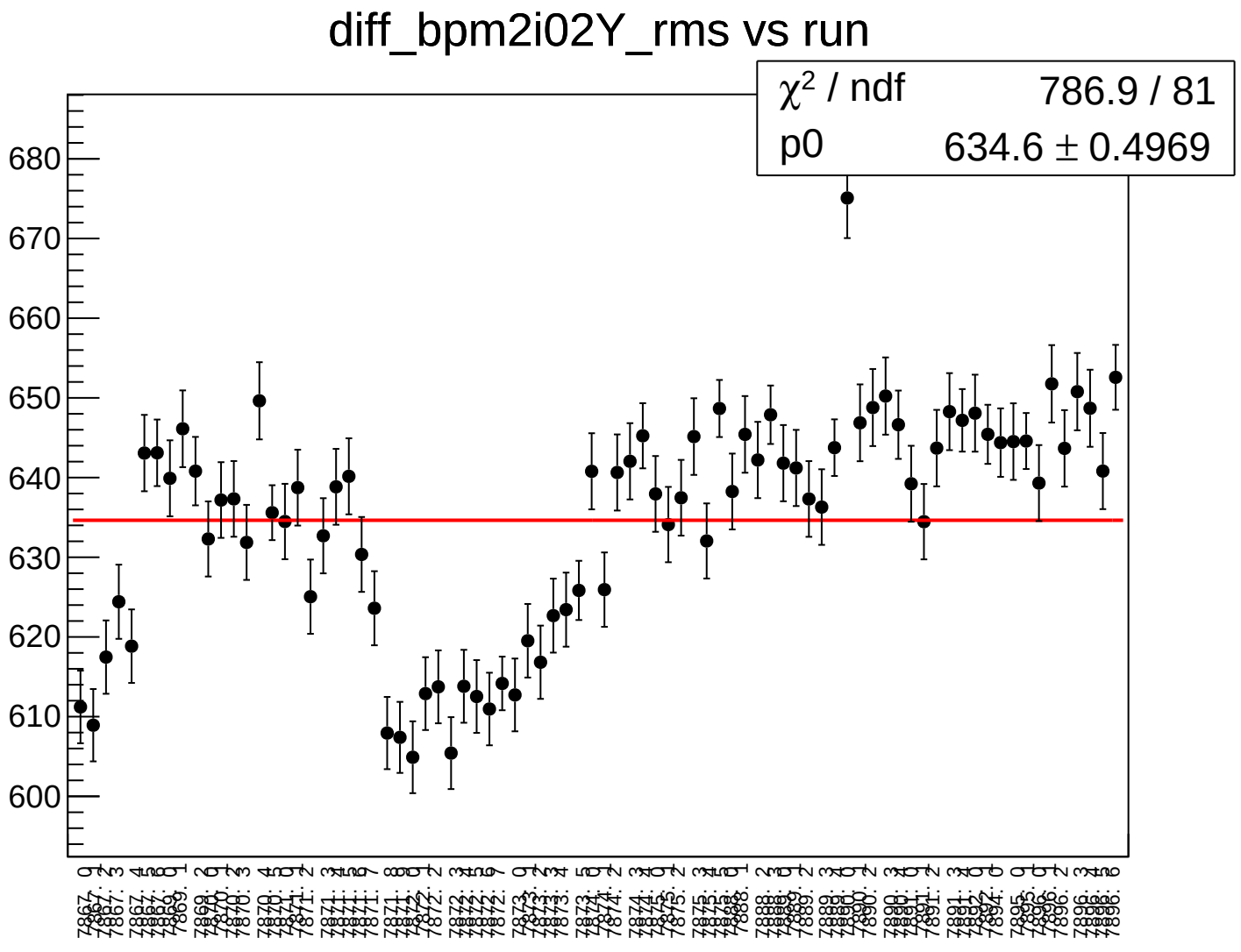

diff_bpm2i02X_mean vs run
χ² / ndf 150.4 / 81
p0 23.16 ± 0.7192
pull
Entries 82
Mean −717.4
Std Dev 0

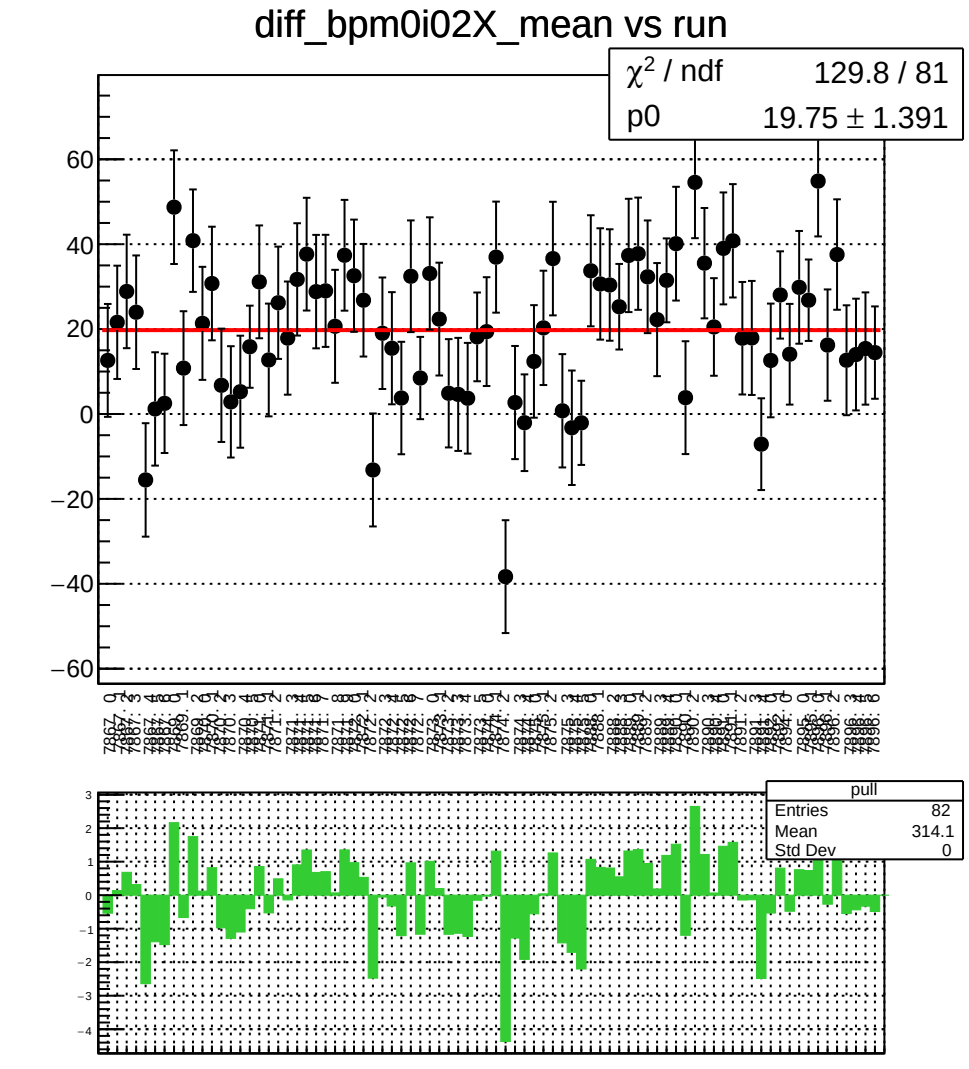

pull1D
Entries 82
Mean 0.01717
Std Dev 1.354

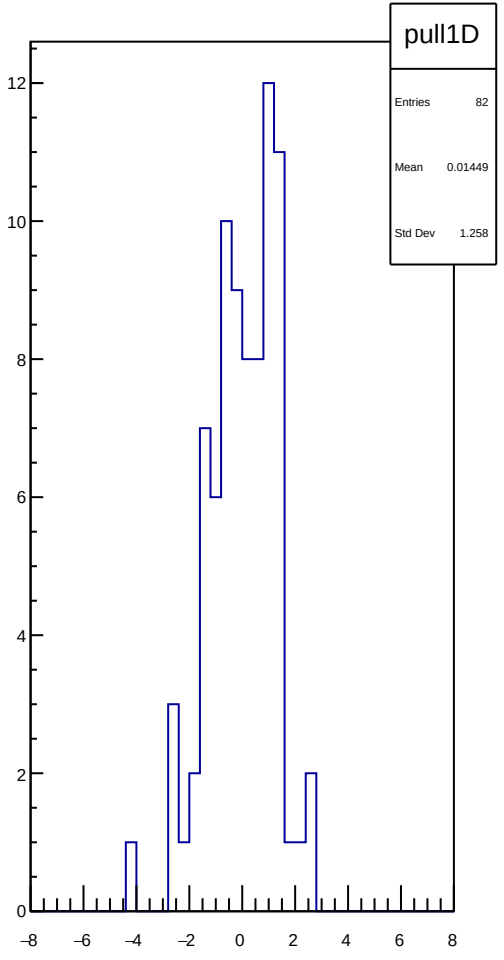

diff_bpm2i02X_rms vs run
χ² / ndf 1053 / 81
p0 649.5 ± 0.5086
700
680
660
640
620
600

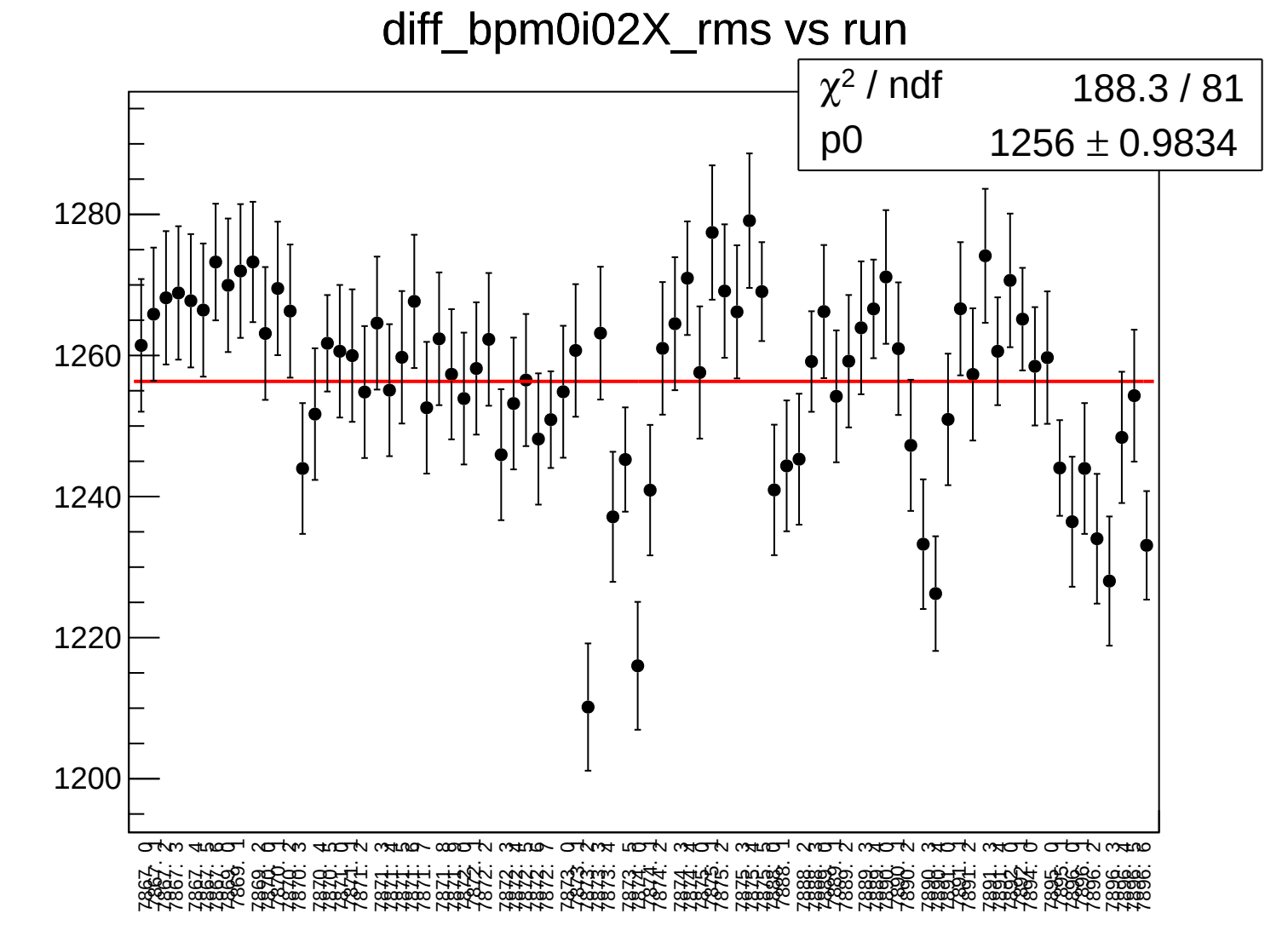

diff_bpm2i02Y_mean vs run
χ² / ndf 122.9 / 81
p0 −8.76 ± 0.7027
pull
Entries 82
Mean 7511
Std Dev 0

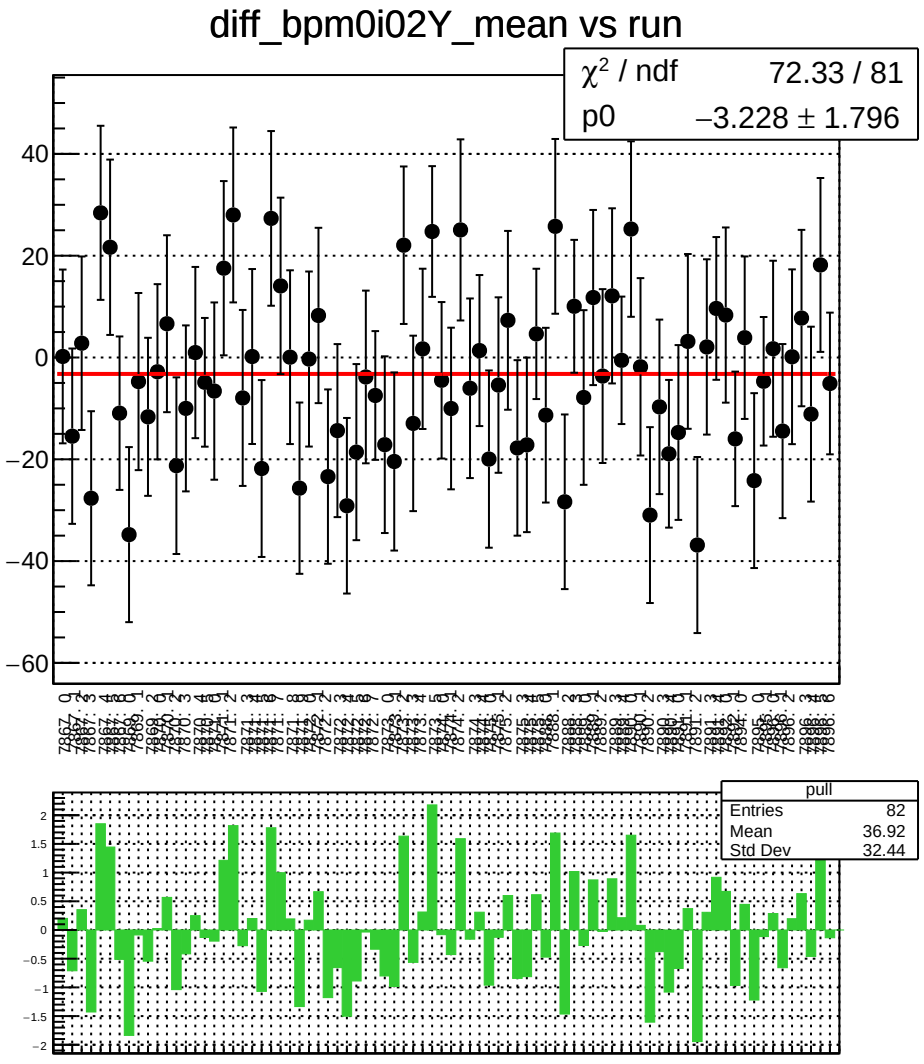

pull1D
Entries 82
Mean 0.001512
Std Dev 1.224

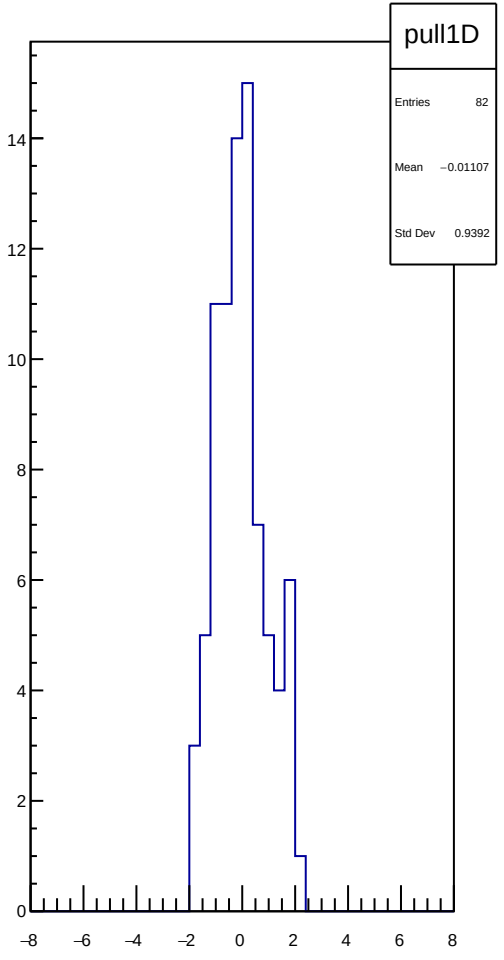

diff_bpm2i02Y_rms vs run
χ² / ndf 786.9 / 81
p0 634.6 ± 0.4969
680
670
660
650
640
630
620
610
600

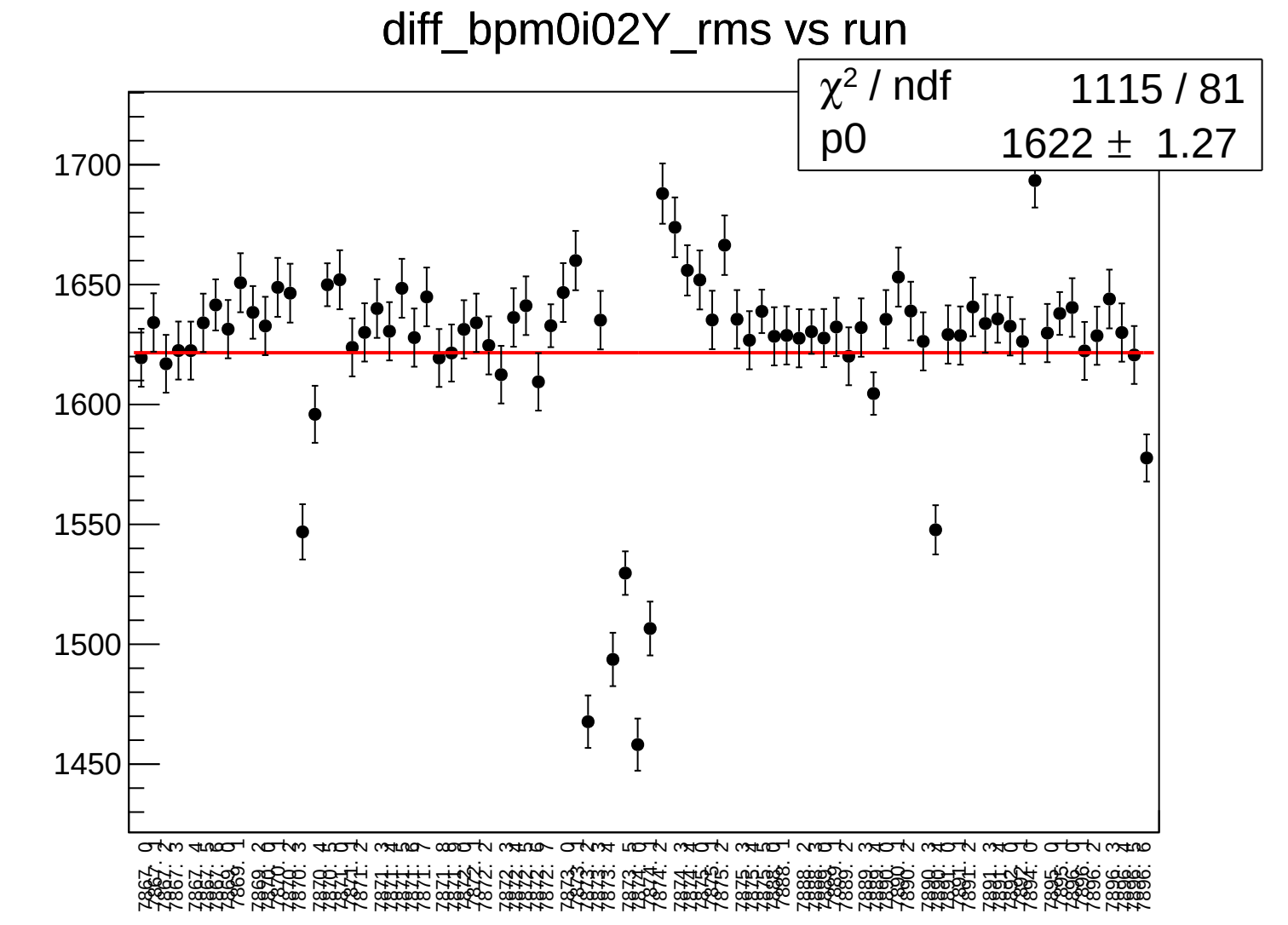

diff_bpm0i02X_mean vs run
χ^2 / ndf 129.8 / 81
p0 19.75 ± 1.391
pull
Entries 82
Mean 314.1
Std Dev 0

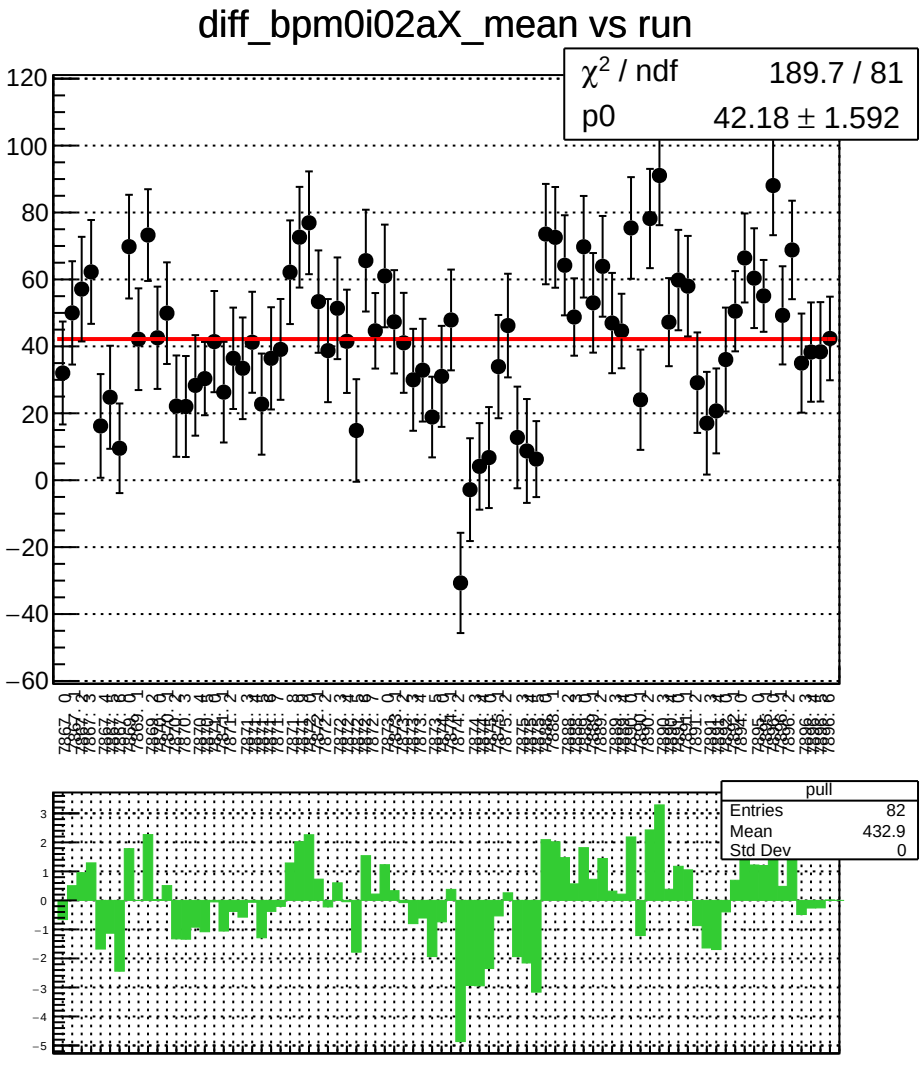

pull1D
Entries 82
Mean 0.01449
Std Dev 1.258

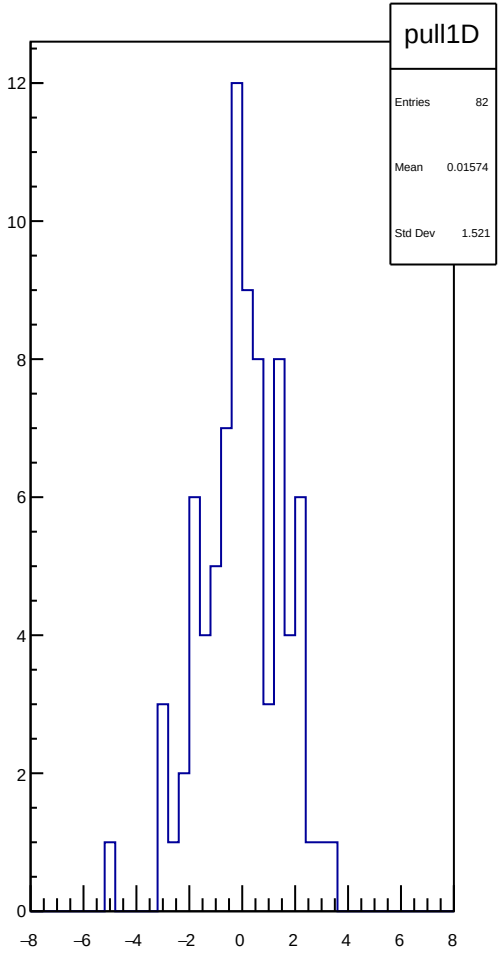

diff_bpm0i02X_rms vs run
χ² / ndf 188.3 / 81
p0 1256 ± 0.9834
1280
1260
1240
1220
1200

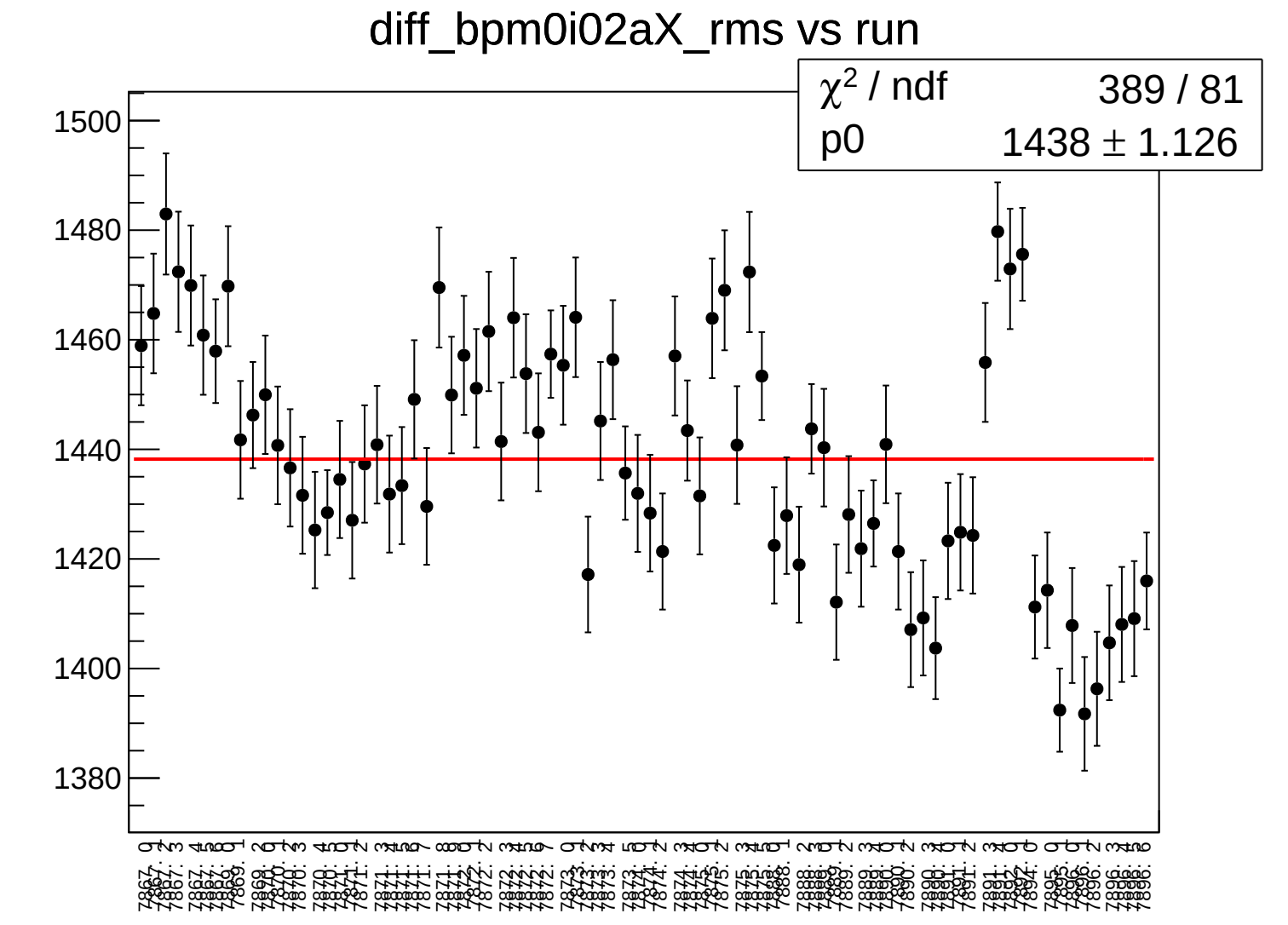

diff_bpm0i02Y_mean vs run
χ² / ndf 72.33 / 81
p0 −3.228 ± 1.796
pull
Entries 82
Mean 36.92
Std Dev 32.44

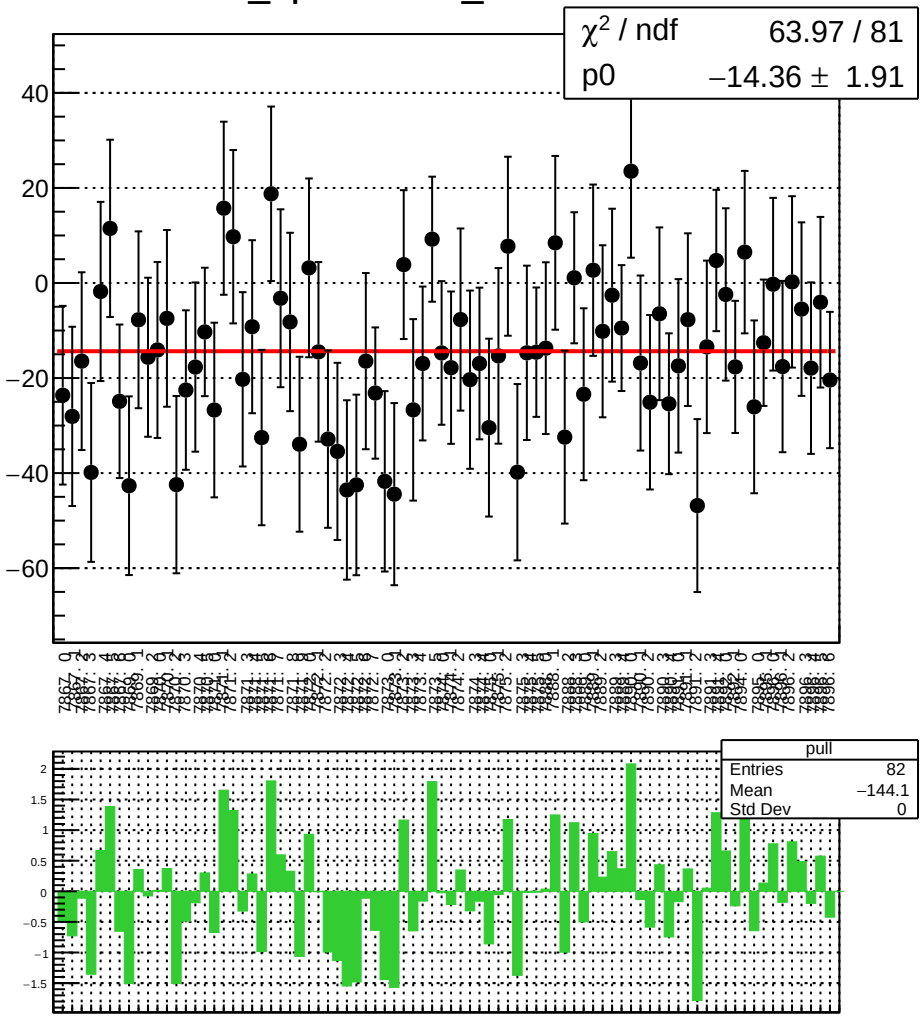

pull1D
Entries 82
Mean −0.01107
Std Dev 0.9392

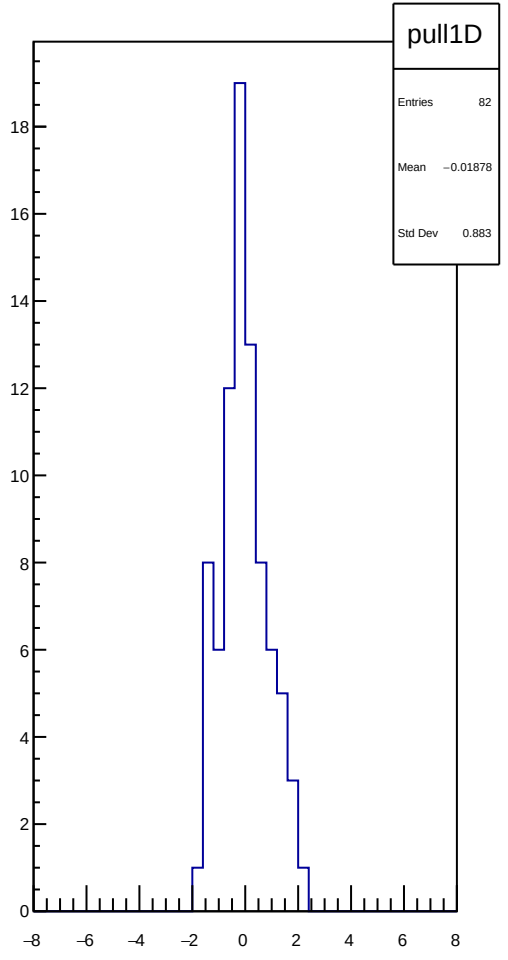

diff_bpm0i02Y_rms vs run
χ² / ndf 1115 / 81
p0 1622 ± 1.27
1700
1650
1600
1550
1500
1450

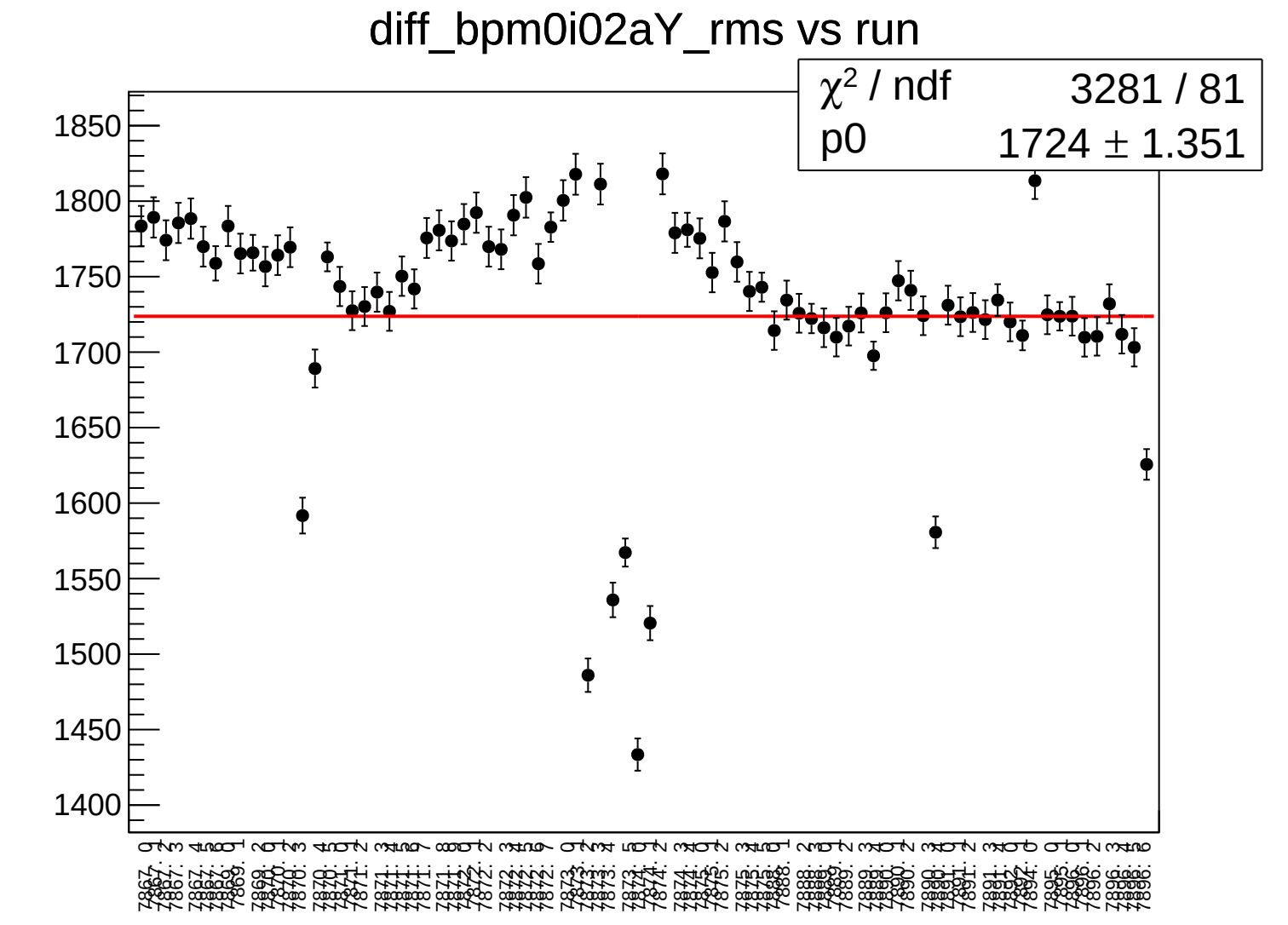

diff_bpm0i02aX_mean vs run
χ² / ndf 189.7 / 81
p0 42.18 ± 1.592
pull
Entries 82
Mean 432.9
Std Dev 0

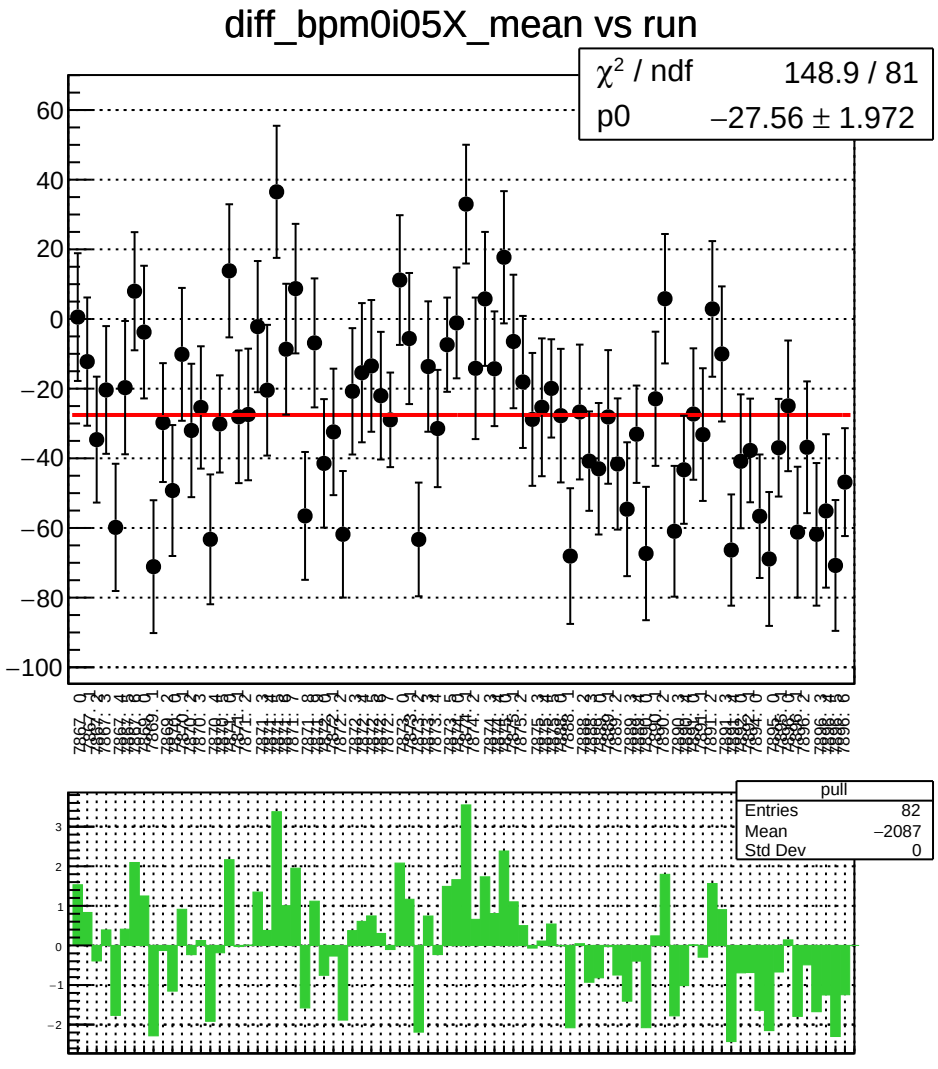

pull1D
Entries 82
Mean 0.01574
Std Dev 1.521

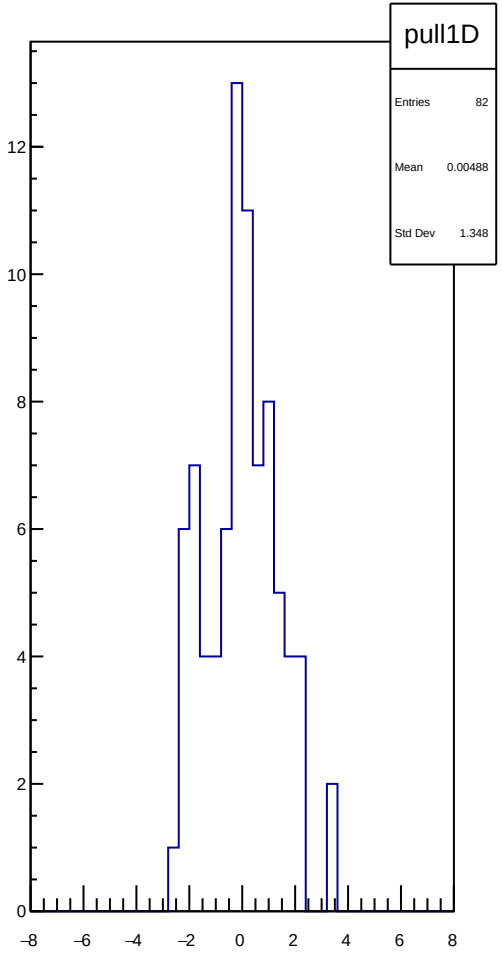

diff_bpm0i02aX_rms vs run
χ² / ndf 389 / 81
p0 1438 ± 1.126
1500
1480
1460
1440
1420
1400
1380

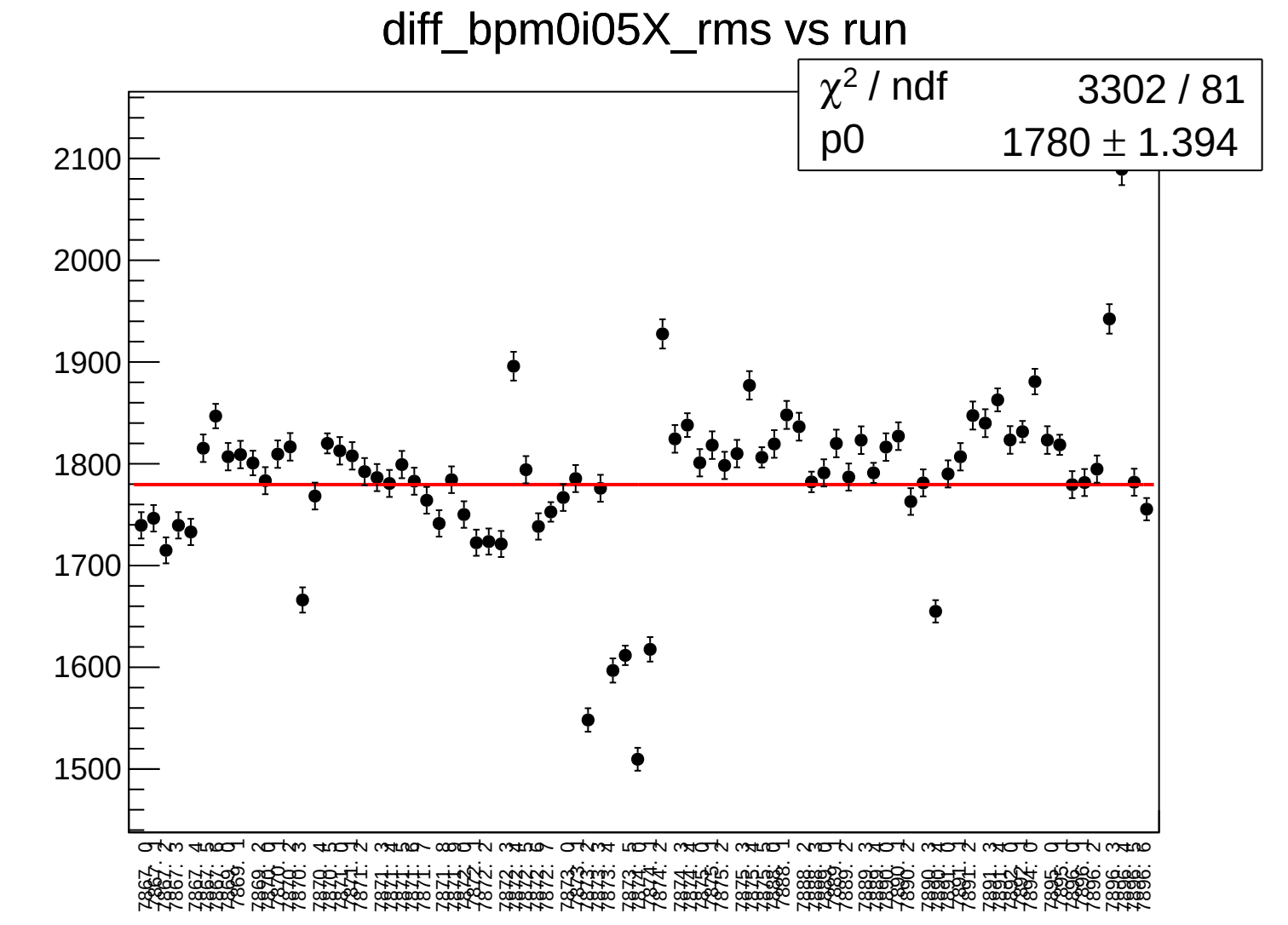

diff_bpm0i02aY_mean vs run
χ² / ndf 63.97 / 81
p0 −14.36 ± 1.91
pull
Entries 82
Mean −144.1
Std Dev 0

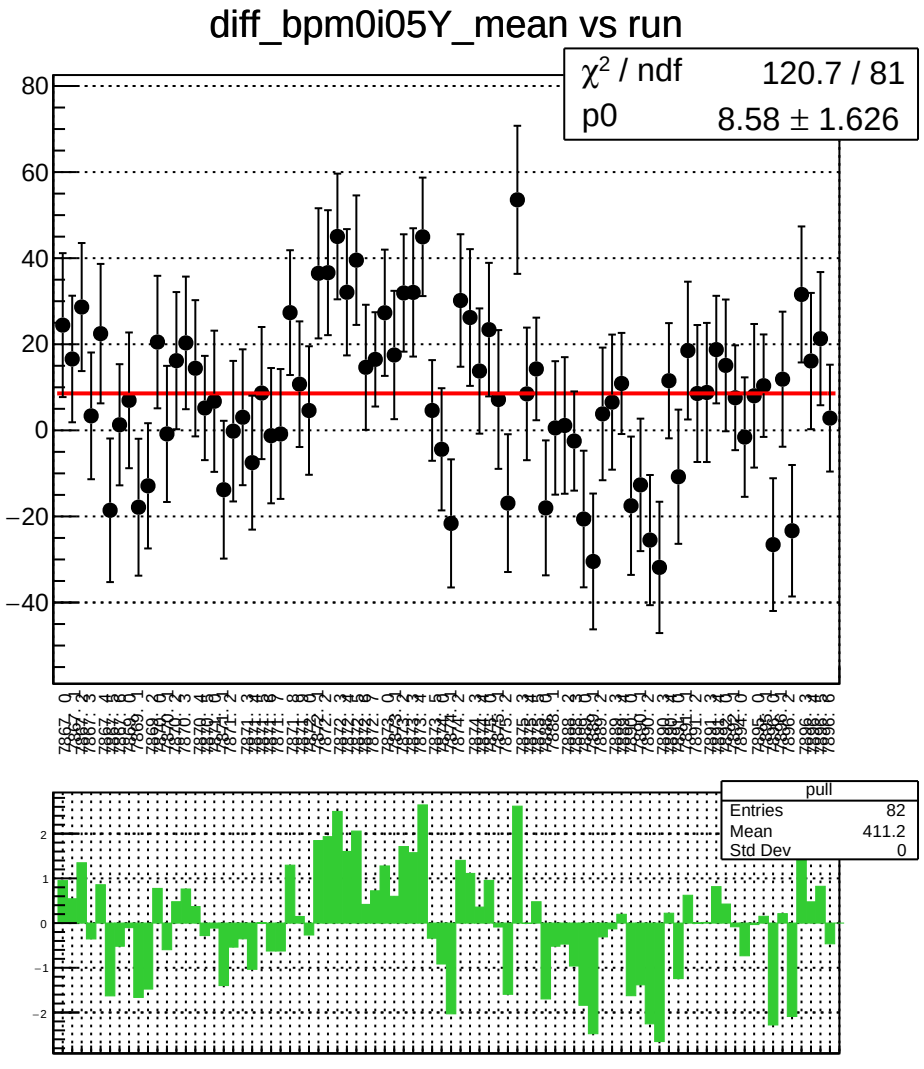

pull1D
Entries 82
Mean −0.01878
Std Dev 0.883

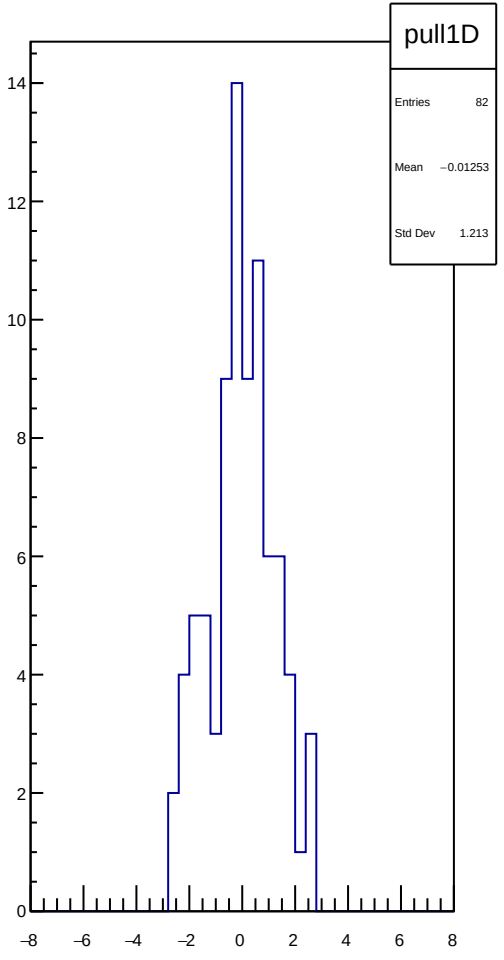

diff_bpm0i02aY_rms vs run
χ² / ndf 3281 / 81
p0 1724 ± 1.351
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

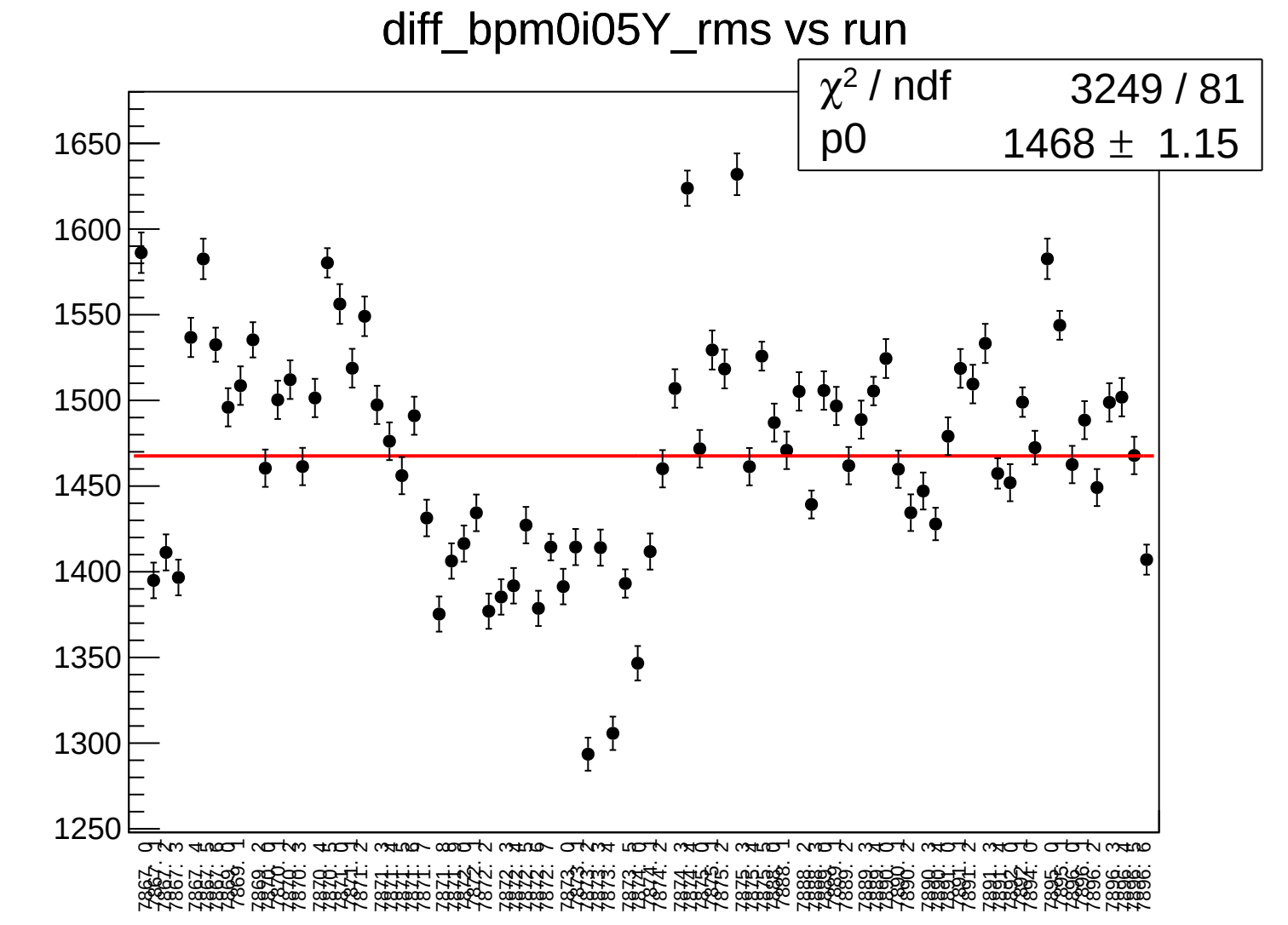

diff_bpm0i05X_mean vs run
χ² / ndf 148.9 / 81
p0 −27.56 ± 1.972
pull
Entries 82
Mean −2087
Std Dev 0

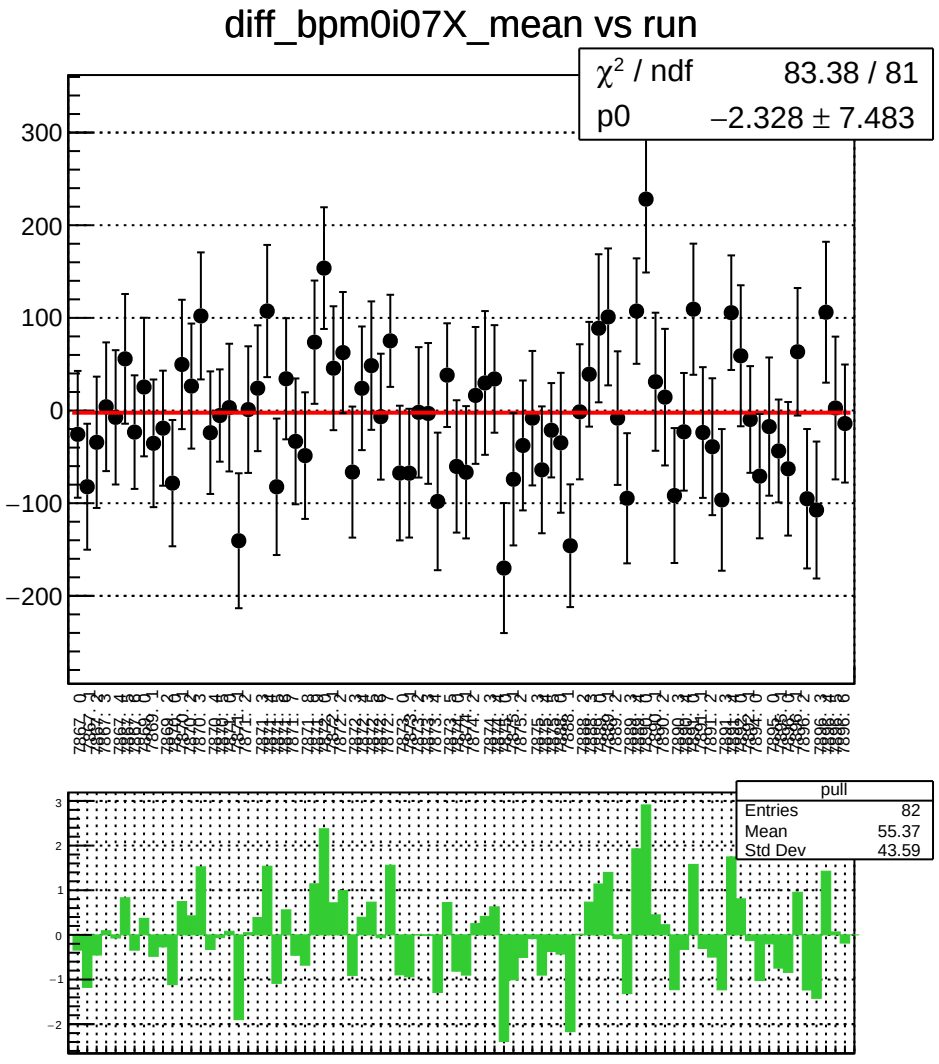

pull1D
Entries 82
Mean 0.00488
Std Dev 1.348

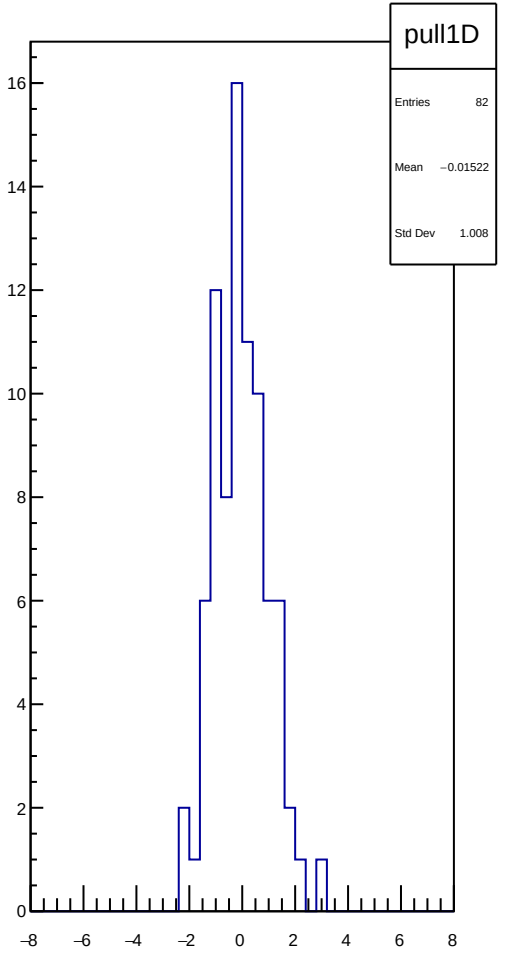

diff_bpm0i05X_rms vs run
χ² / ndf 3302 / 81
p0 1780 ± 1.394
2100
2000
1900
1800
1700
1600
1500

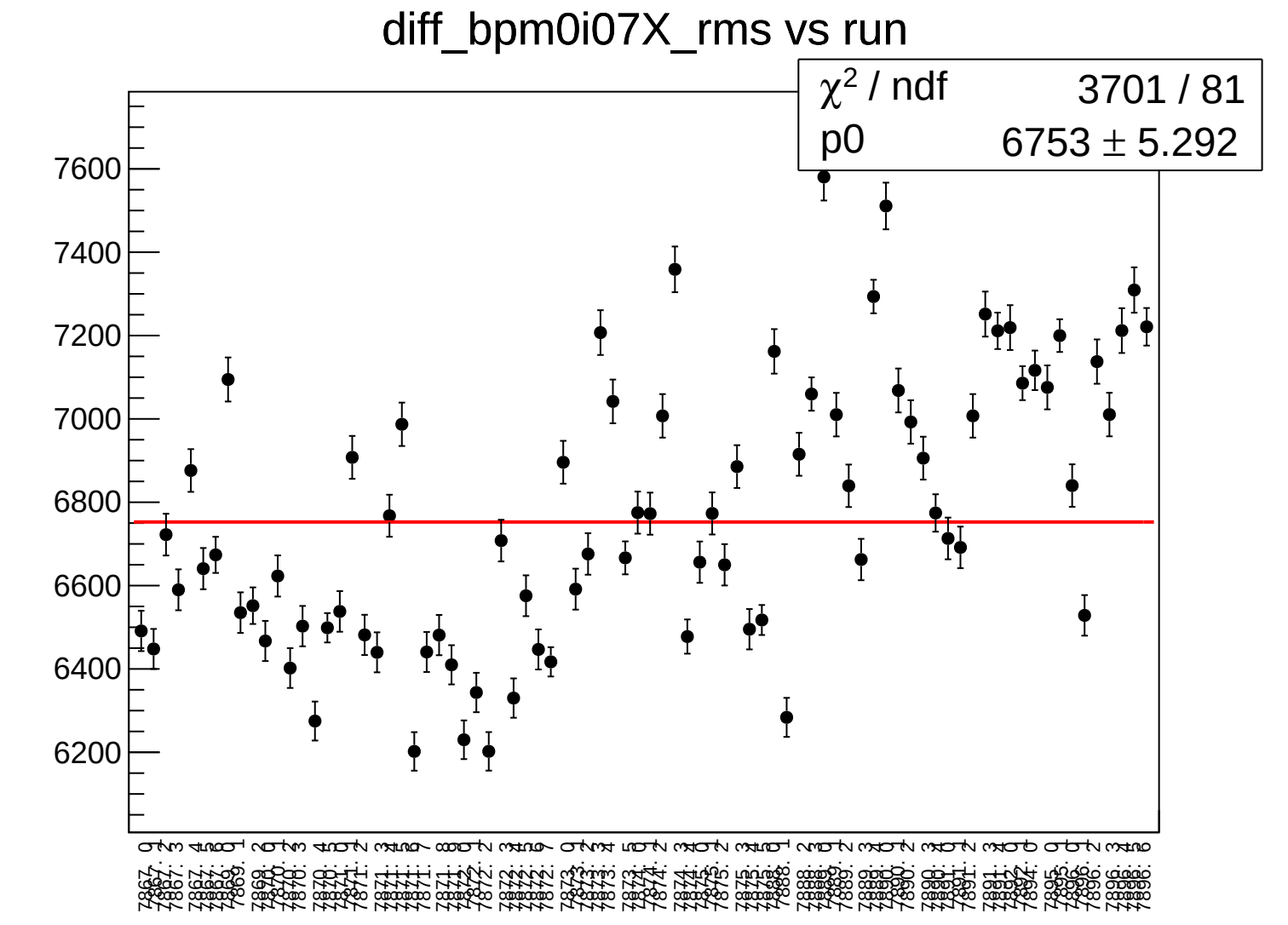

diff_bpm0i05Y_mean vs run
χ² / ndf 120.7 / 81
p0 8.58 ± 1.626
pull
Entries 82
Mean 411.2
Std Dev 0

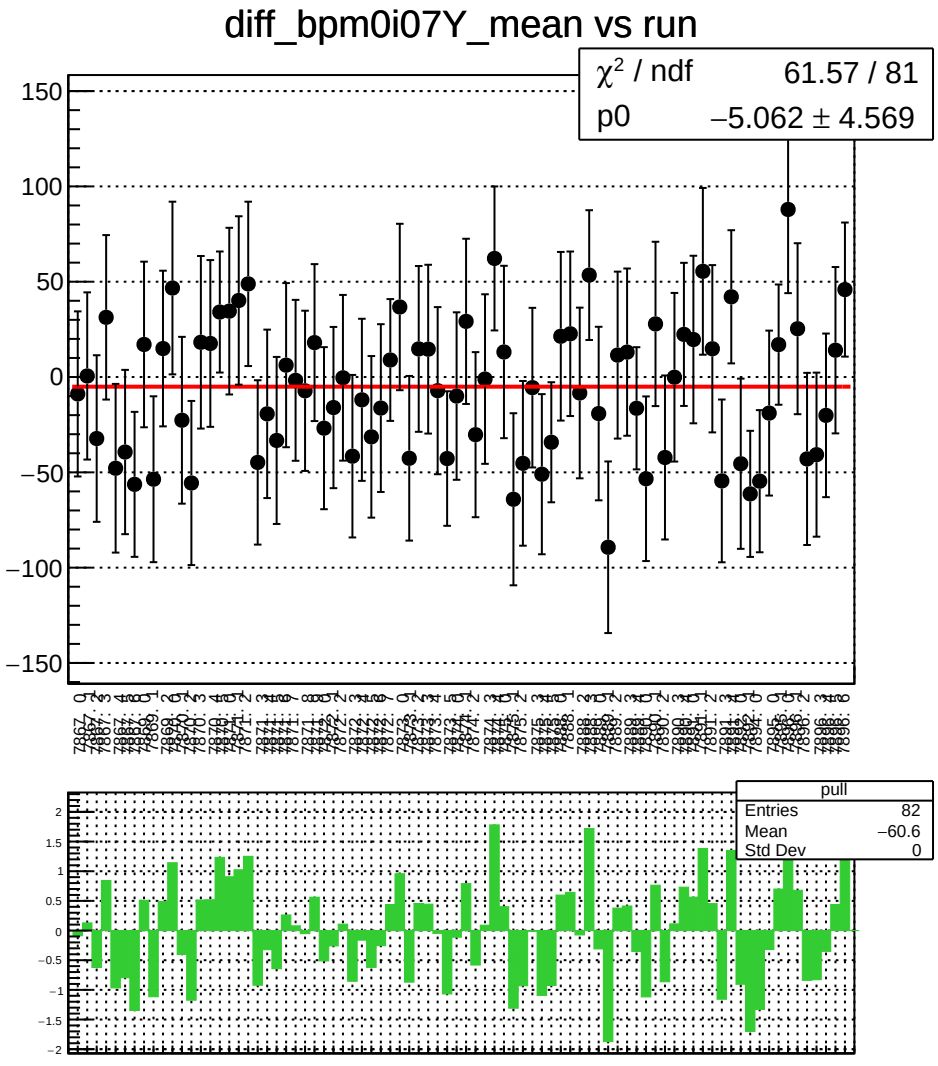

pull1D
Entries 82
Mean −0.01253
Std Dev 1.213

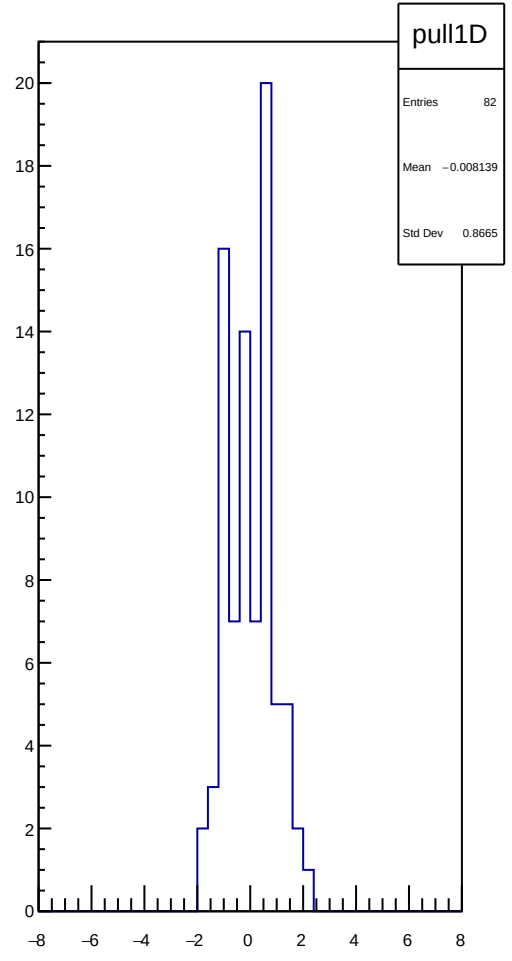

diff_bpm0i05Y_rms vs run
χ² / ndf 3249 / 81
p0 1468 ± 1.15
1650
1600
1550
1500
1450
1400
1350
1300
1250

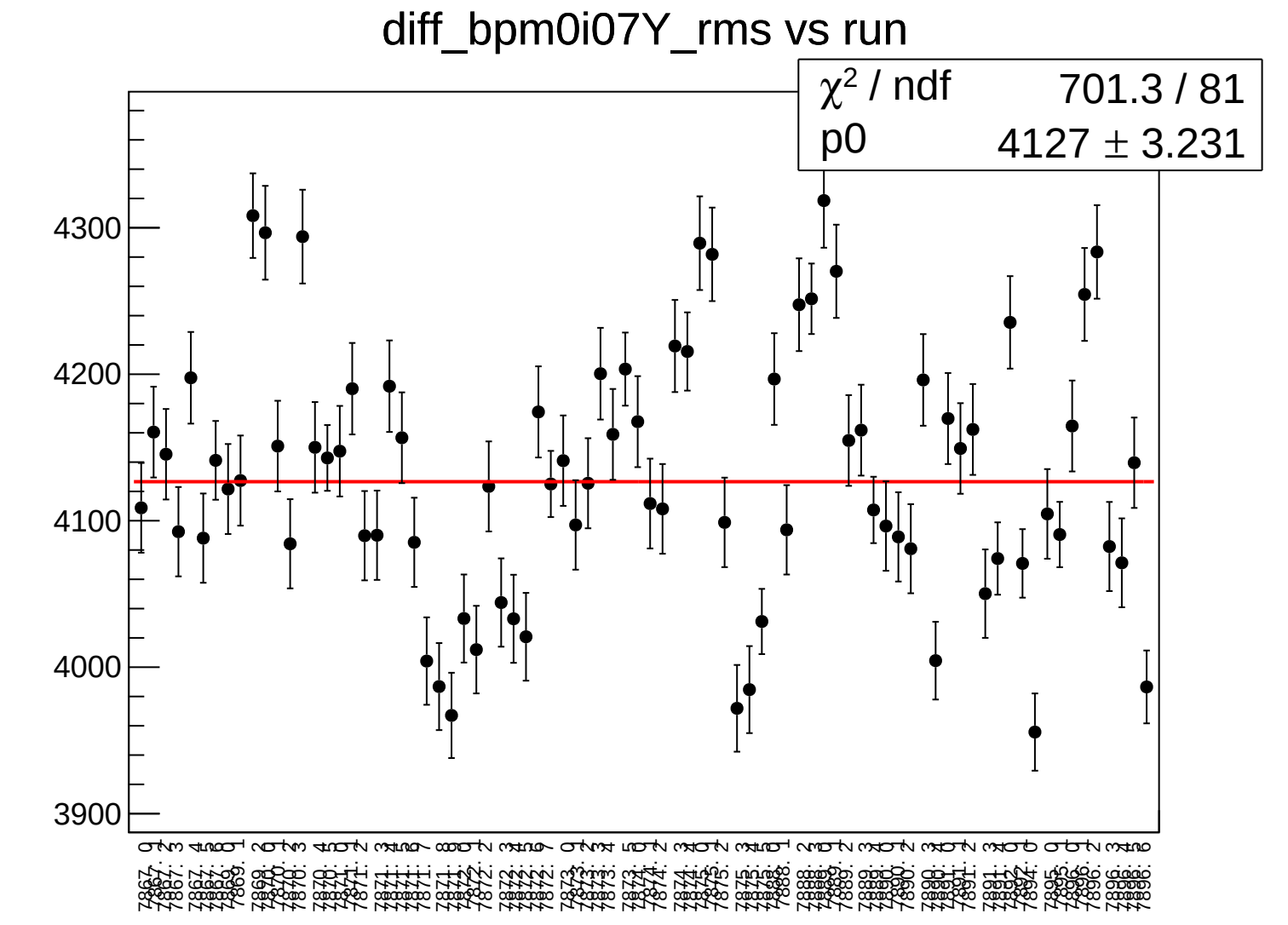

diff_bpm0i07X_mean vs run
χ² / ndf 83.38 / 81
p0 −2.328 ± 7.483
300
200
100
0
−100
−200
pull
Entries 82
Mean 55.37
Std Dev 43.59
3
2
1
0
−1
−2

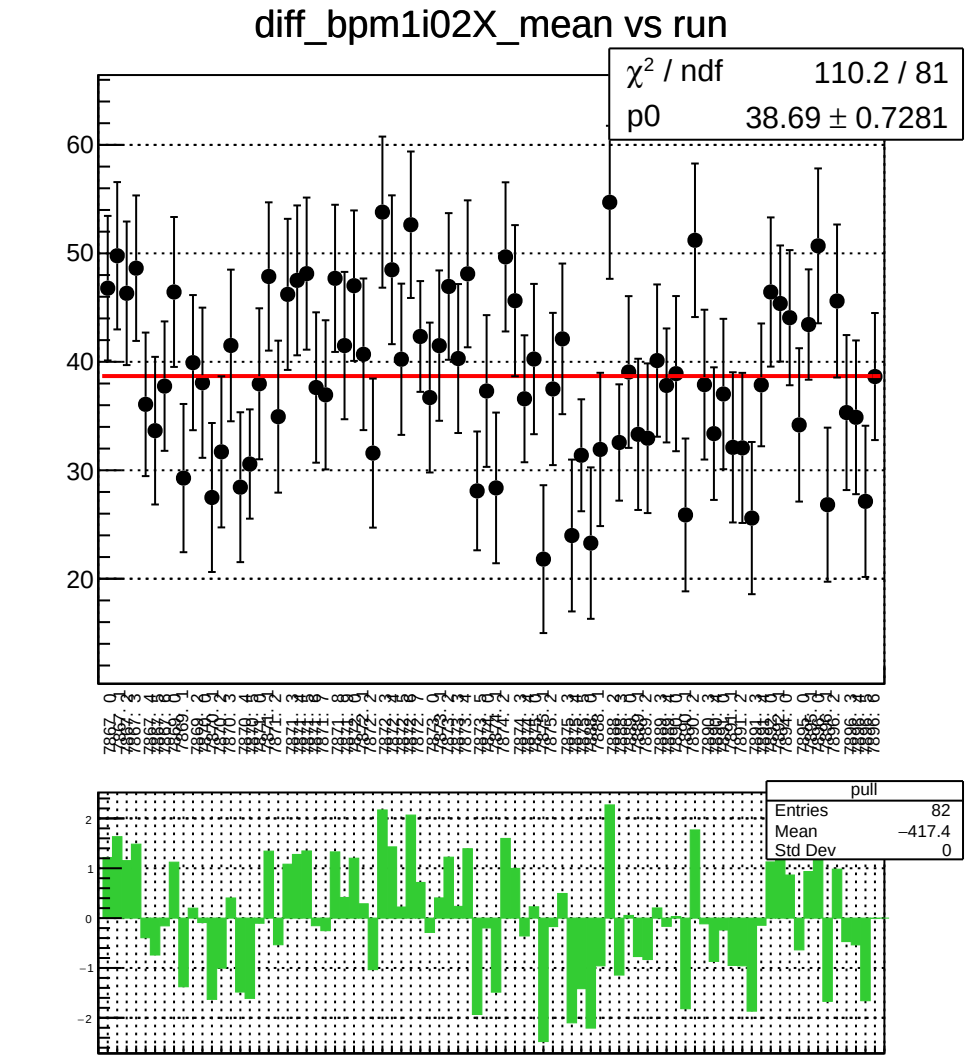

pull1D
Entries 82
Mean −0.01522
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

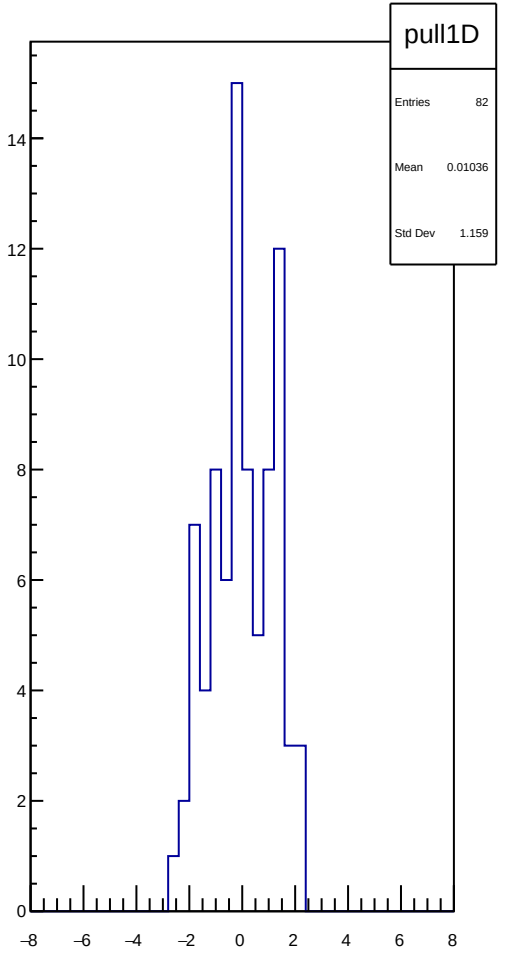

diff_bpm0i07X_rms vs run
χ² / ndf 3701 / 81
p0 6753 ± 5.292
7600
7400
7200
7000
6800
6600
6400
6200

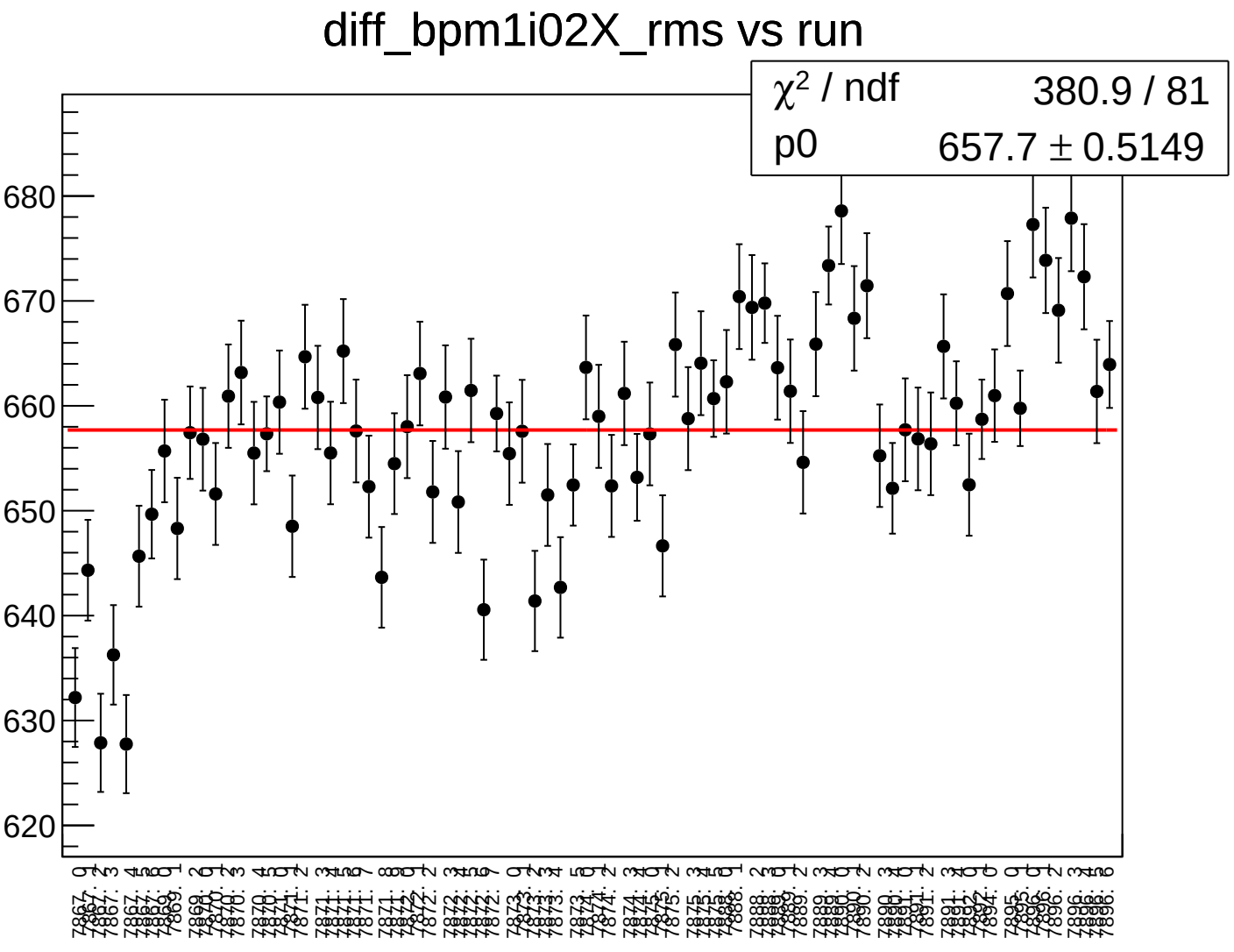

diff_bpm0i07Y_mean vs run
χ² / ndf 61.57 / 81
p0 −5.062 ± 4.569
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −60.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

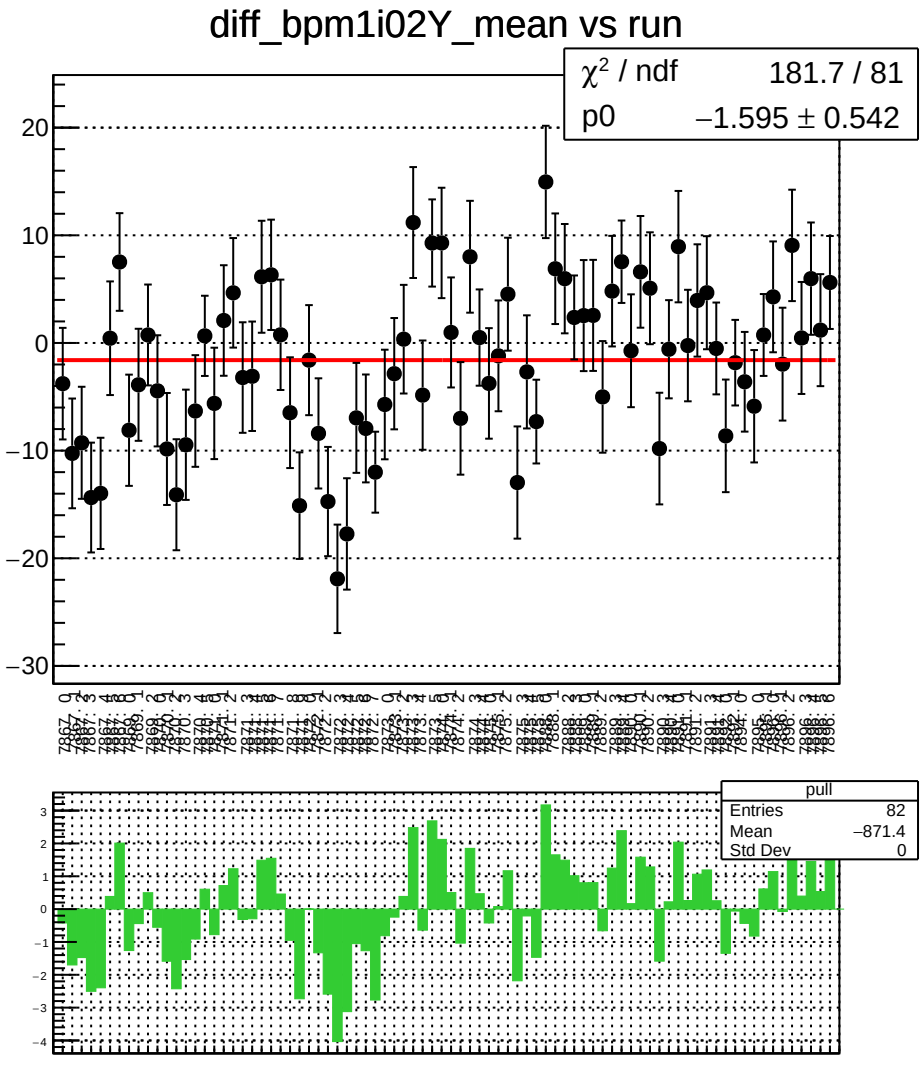

pull1D
Entries 82
Mean −0.008139
Std Dev 0.8665
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

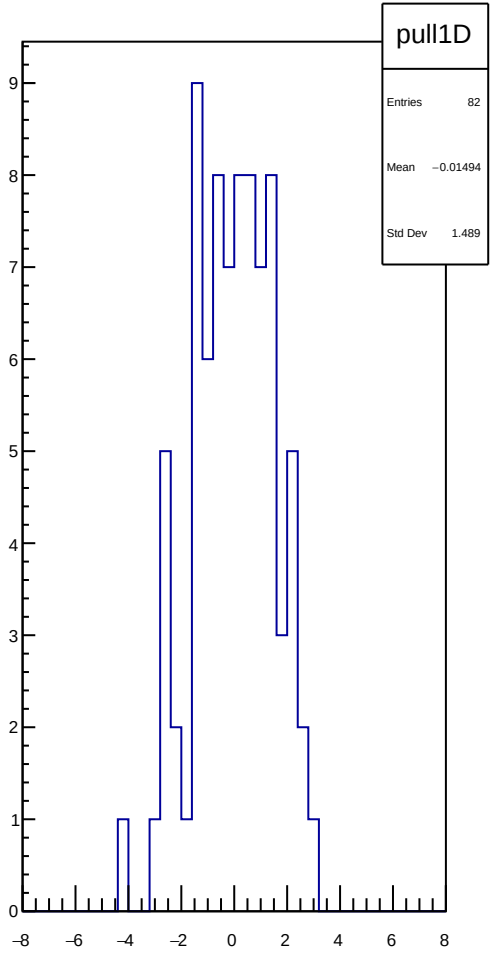

diff_bpm0i07Y_rms vs run
χ² / ndf 701.3 / 81
p0 4127 ± 3.231
4300
4200
4100
4000
3900

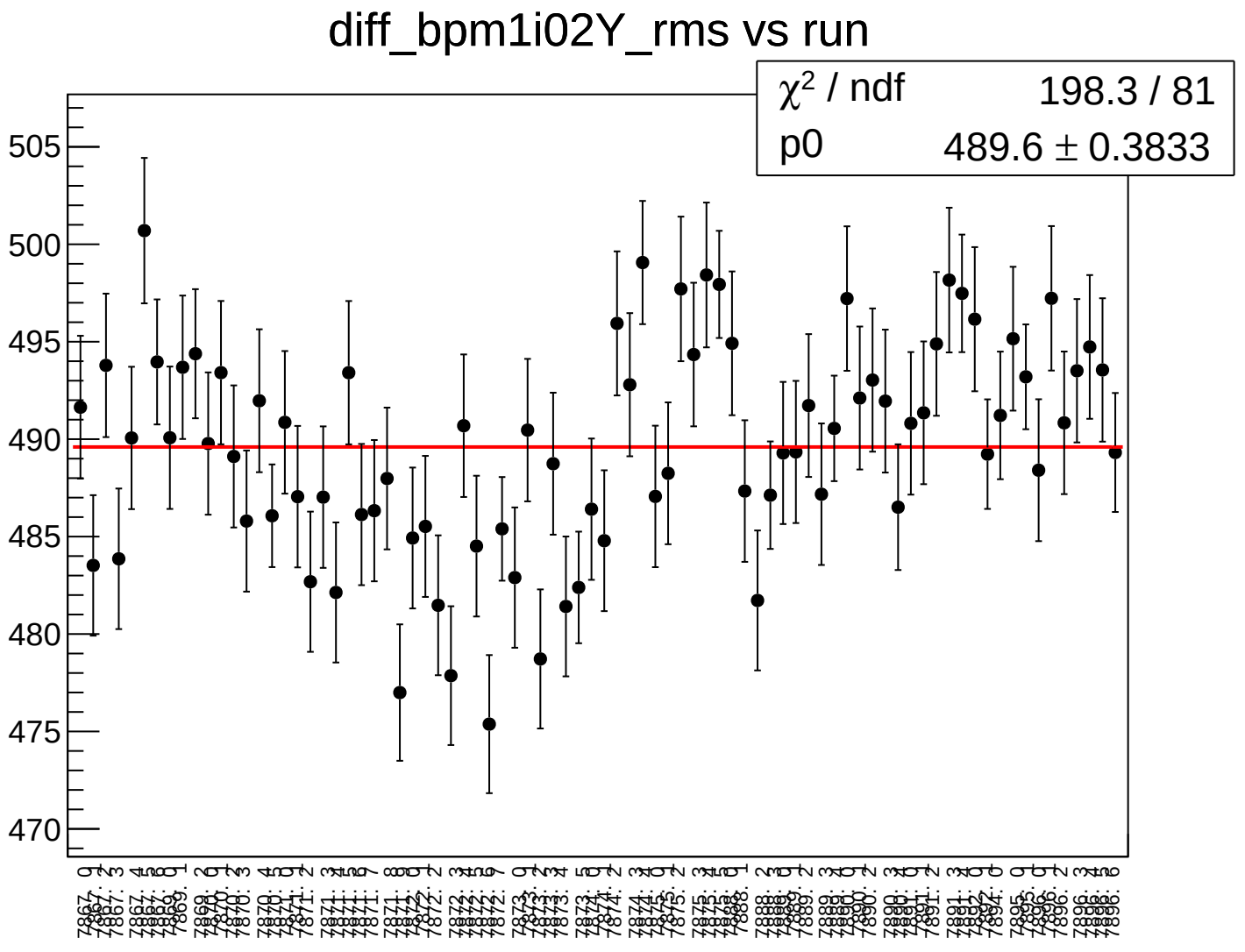

diff_bpm1i02X_mean vs run
χ^2 / ndf 110.2 / 81
p0 38.69 ± 0.7281
pull
Entries 82
Mean −417.4
Std Dev 0

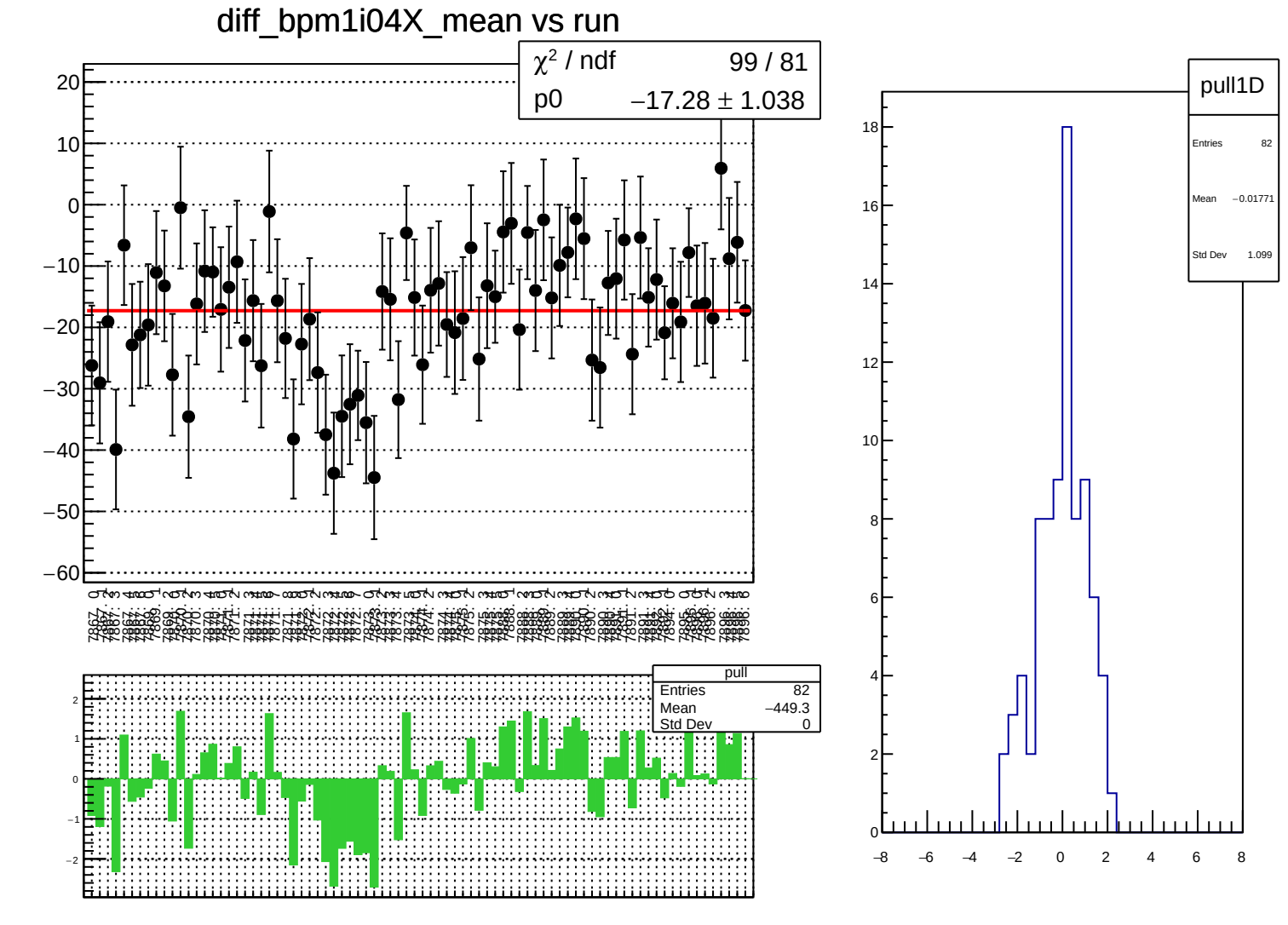

pull1D
Entries 82
Mean 0.01036
Std Dev 1.159

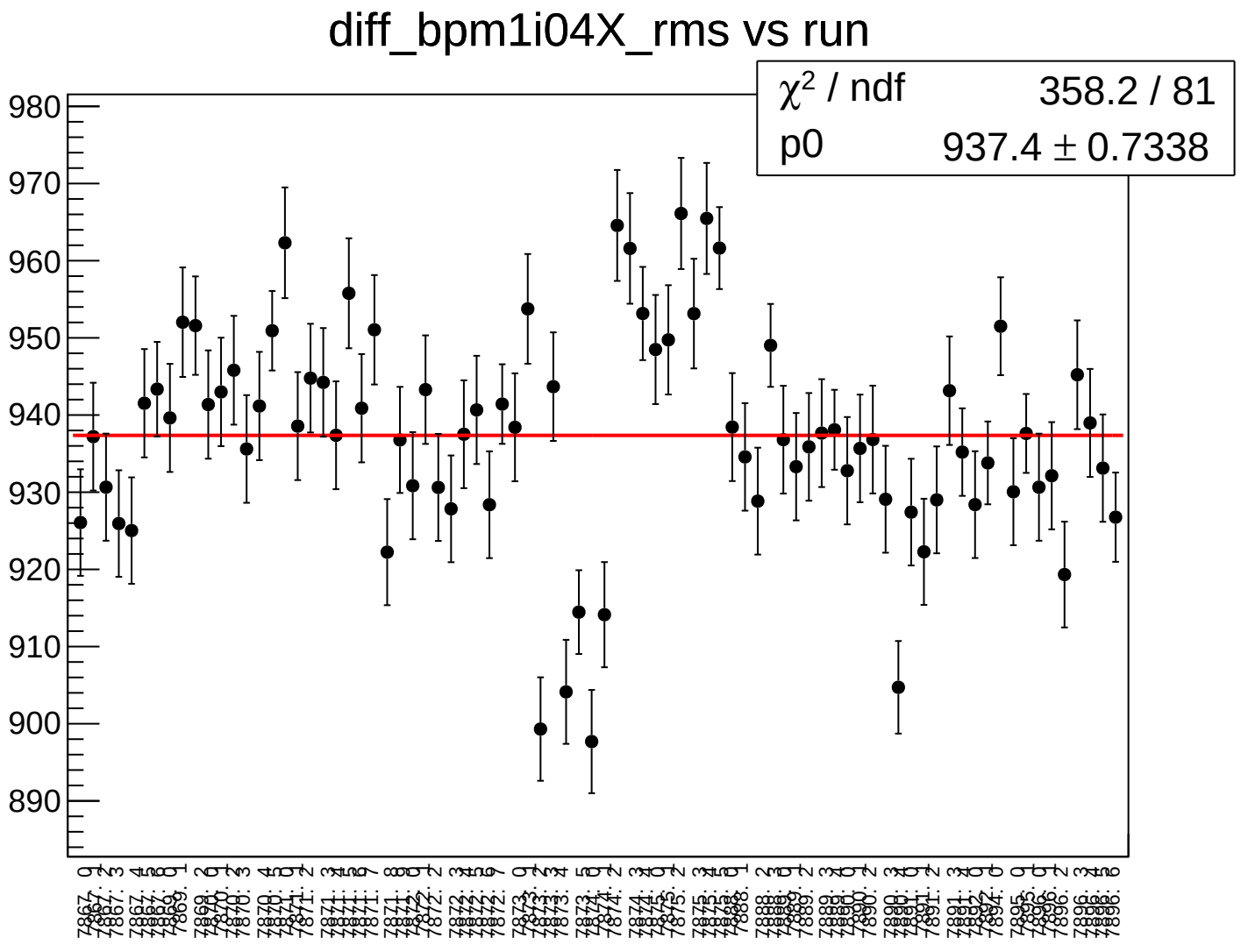

diff_bpm1i02X_rms vs run
χ² / ndf 380.9 / 81
p0 657.7 ± 0.5149
680
670
660
650
640
630
620

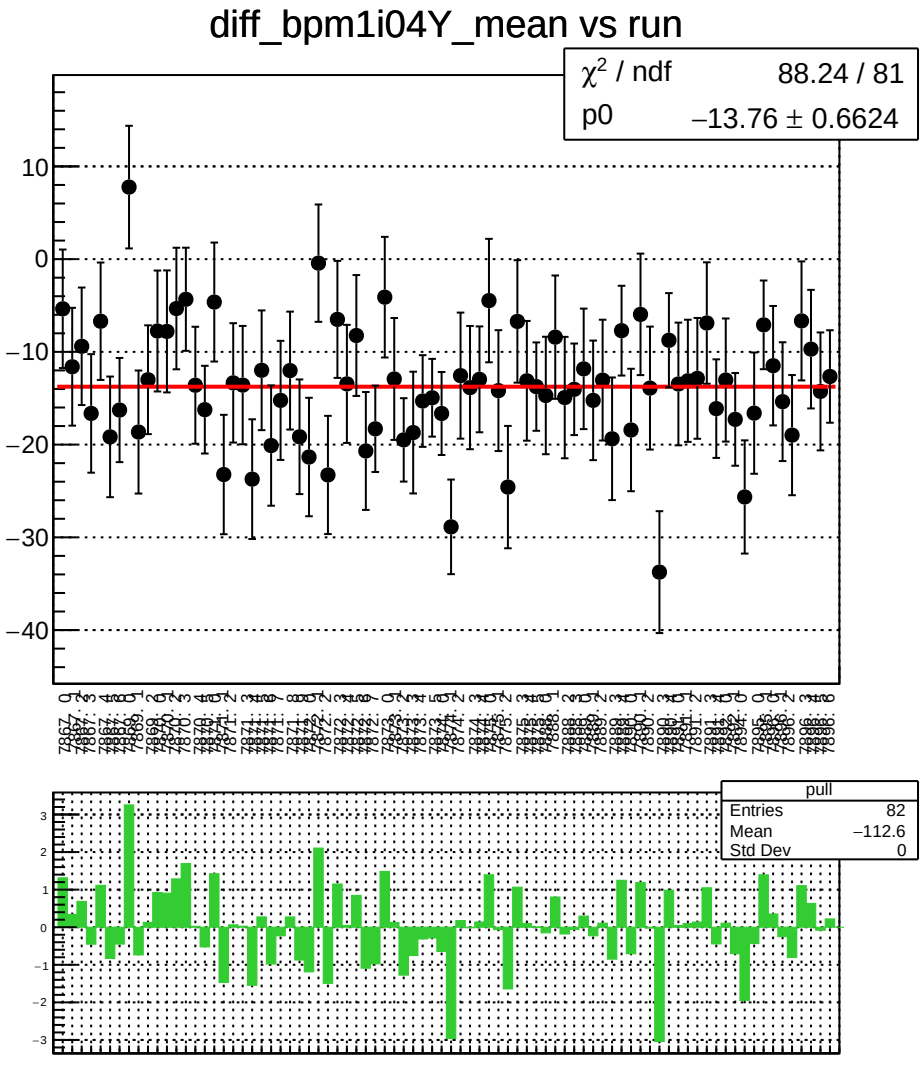

diff_bpm1i02Y_mean vs run
χ^2 / ndf 181.7 / 81
p0 −1.595 ± 0.542
pull
Entries 82
Mean −871.4
Std Dev 0

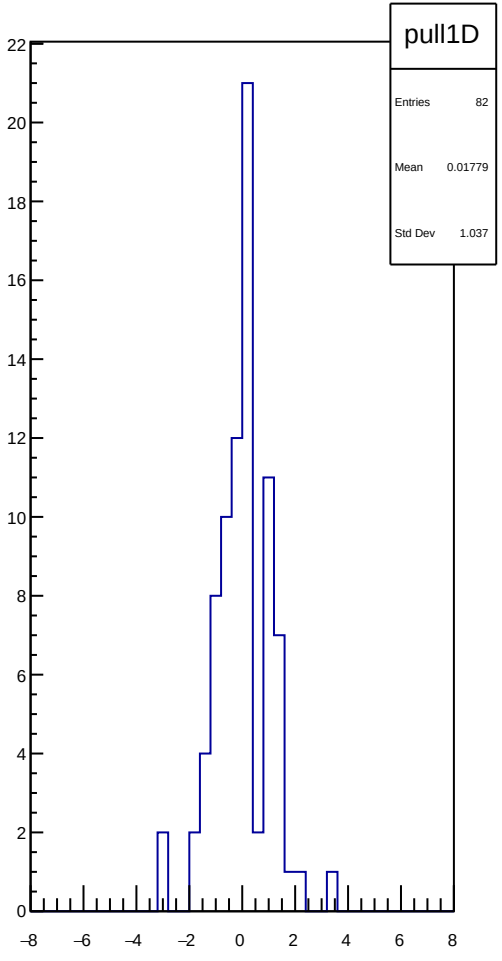

pull1D
Entries 82
Mean −0.01494
Std Dev 1.489

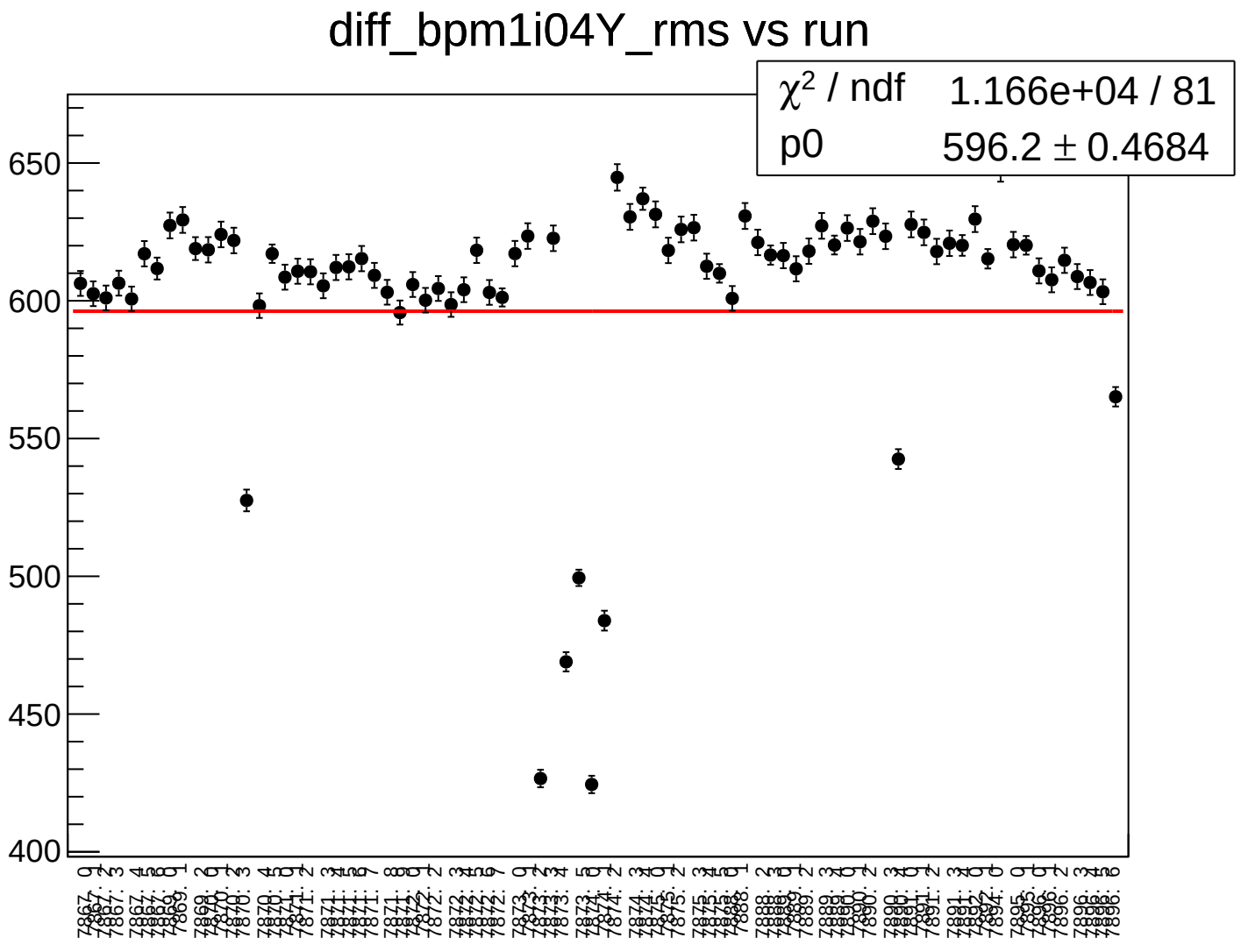

diff_bpm1i02Y_rms vs run
χ² / ndf 198.3 / 81
p0 489.6 ± 0.3833
505
500
495
490
485
480
475
470

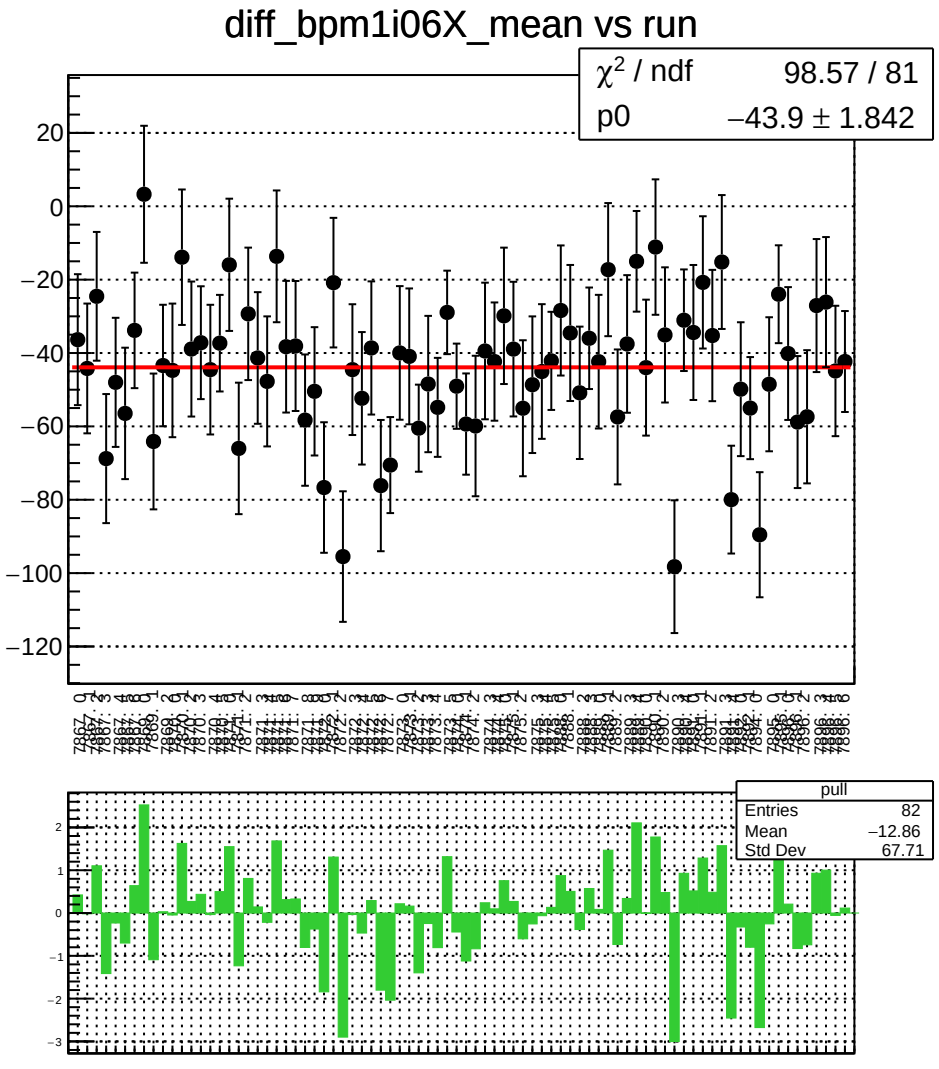

diff_bpm1i04X_mean vs run
χ² / ndf 99 / 81
p0 −17.28 ± 1.038
pull
Entries 82
Mean −449.3
Std Dev 0
pull1D
Entries 82
Mean −0.01771
Std Dev 1.099

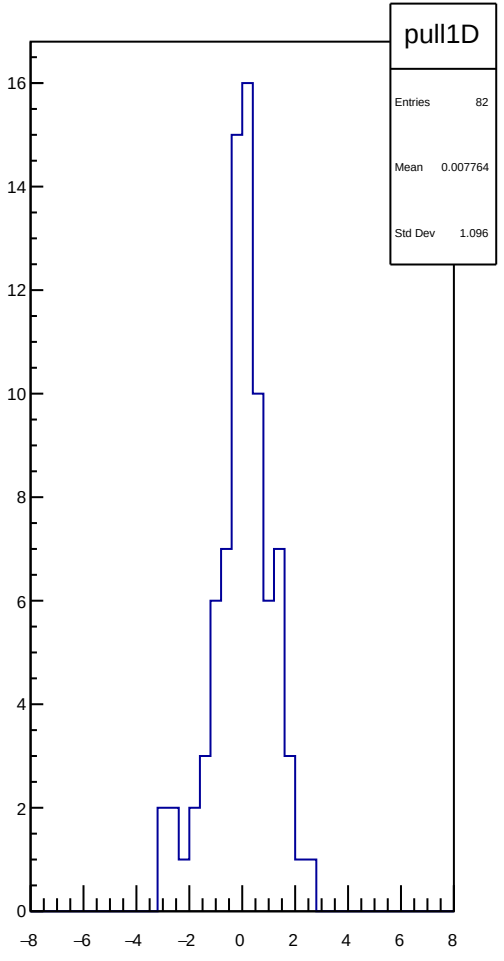

diff_bpm1i04X_rms vs run
χ² / ndf 358.2 / 81
p0 937.4 ± 0.7338
980
970
960
950
940
930
920
910
900
890

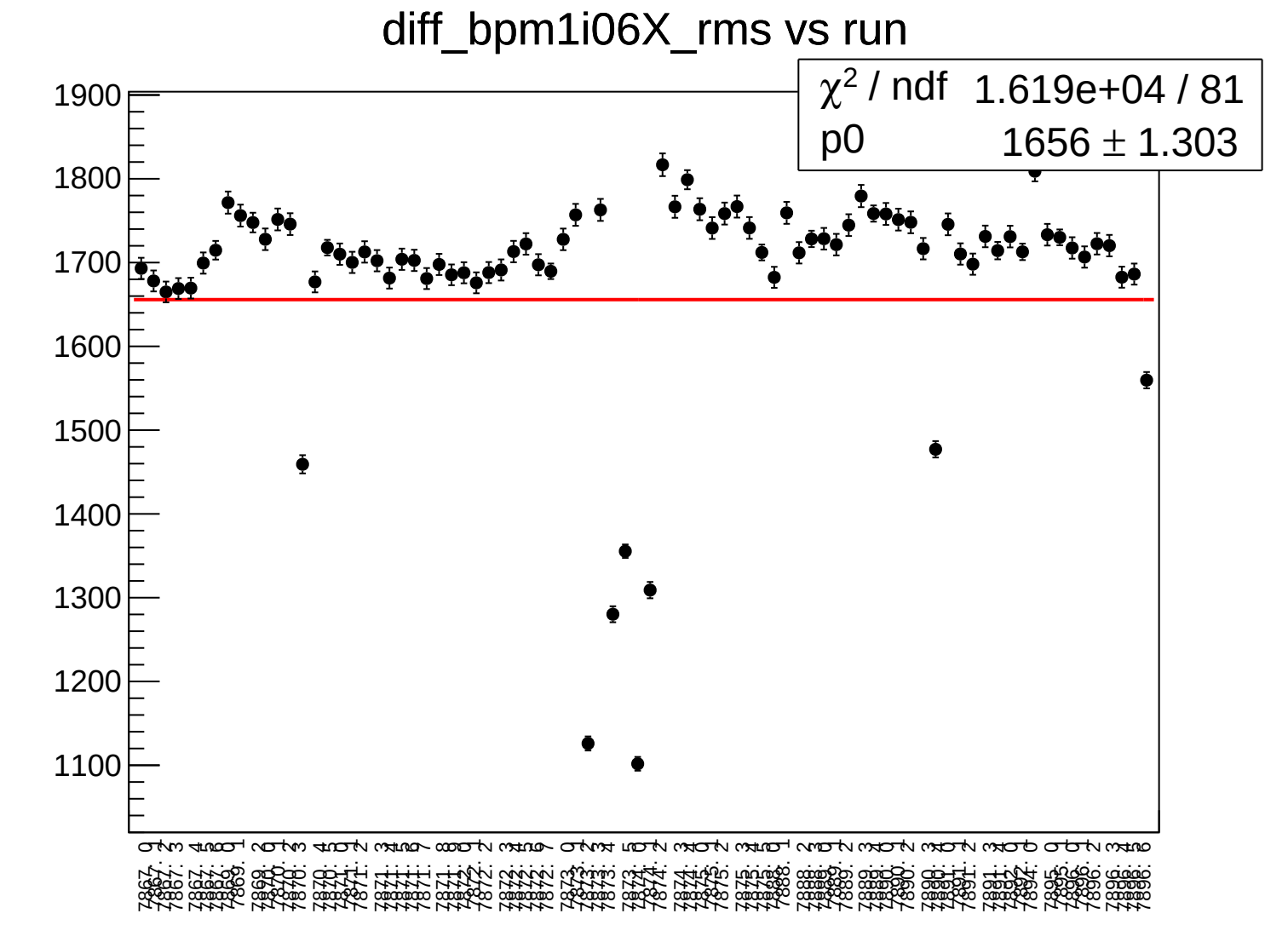

diff_bpm1i04Y_mean vs run
χ² / ndf 88.24 / 81
p0 −13.76 ± 0.6624
pull
Entries 82
Mean −112.6
Std Dev 0

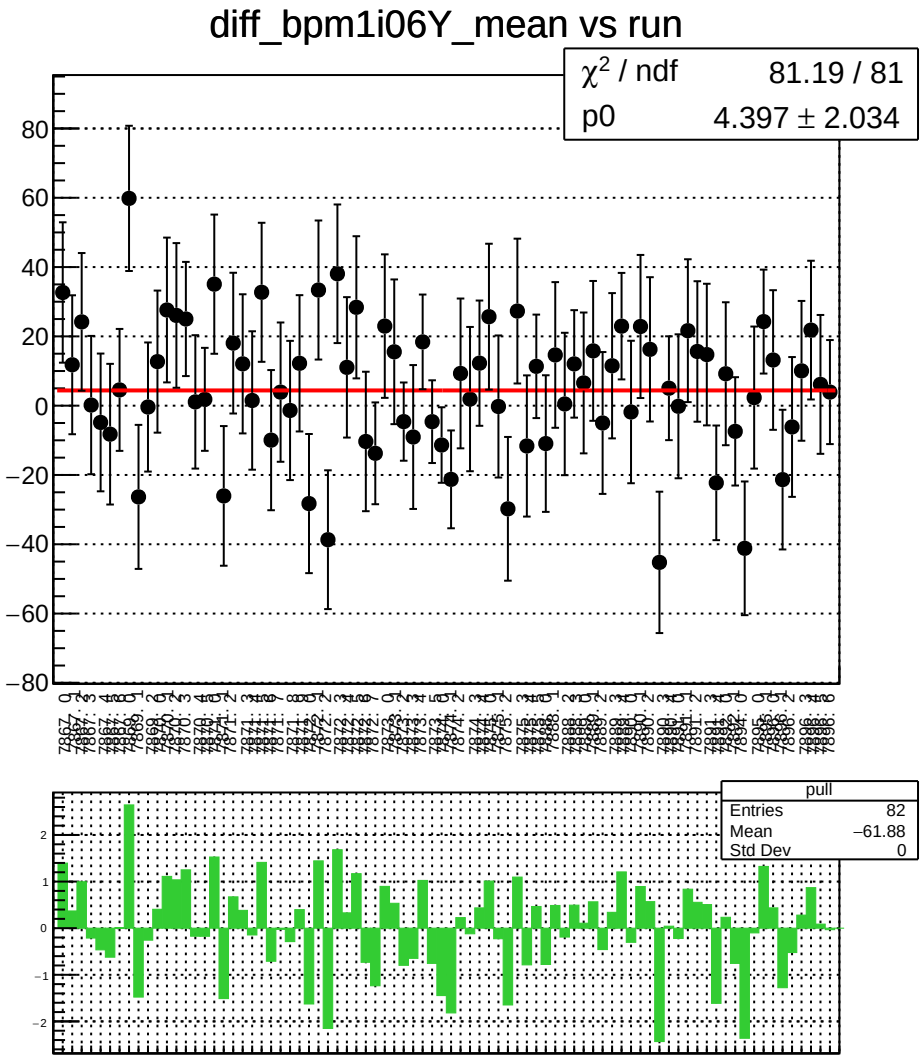

pull1D
Entries 82
Mean 0.01779
Std Dev 1.037

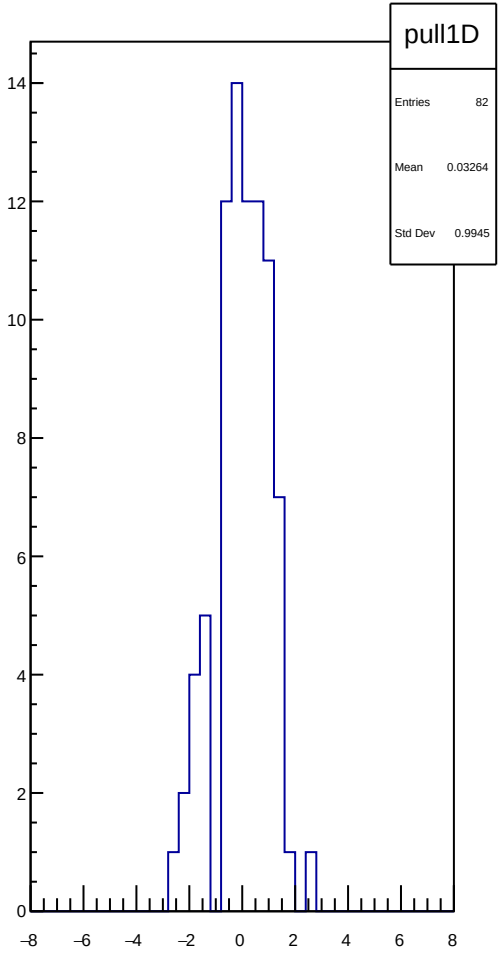

diff_bpm1i04Y_rms vs run
χ² / ndf 1.166e+04 / 81
p0 596.2 ± 0.4684
650
600
550
500
450
400

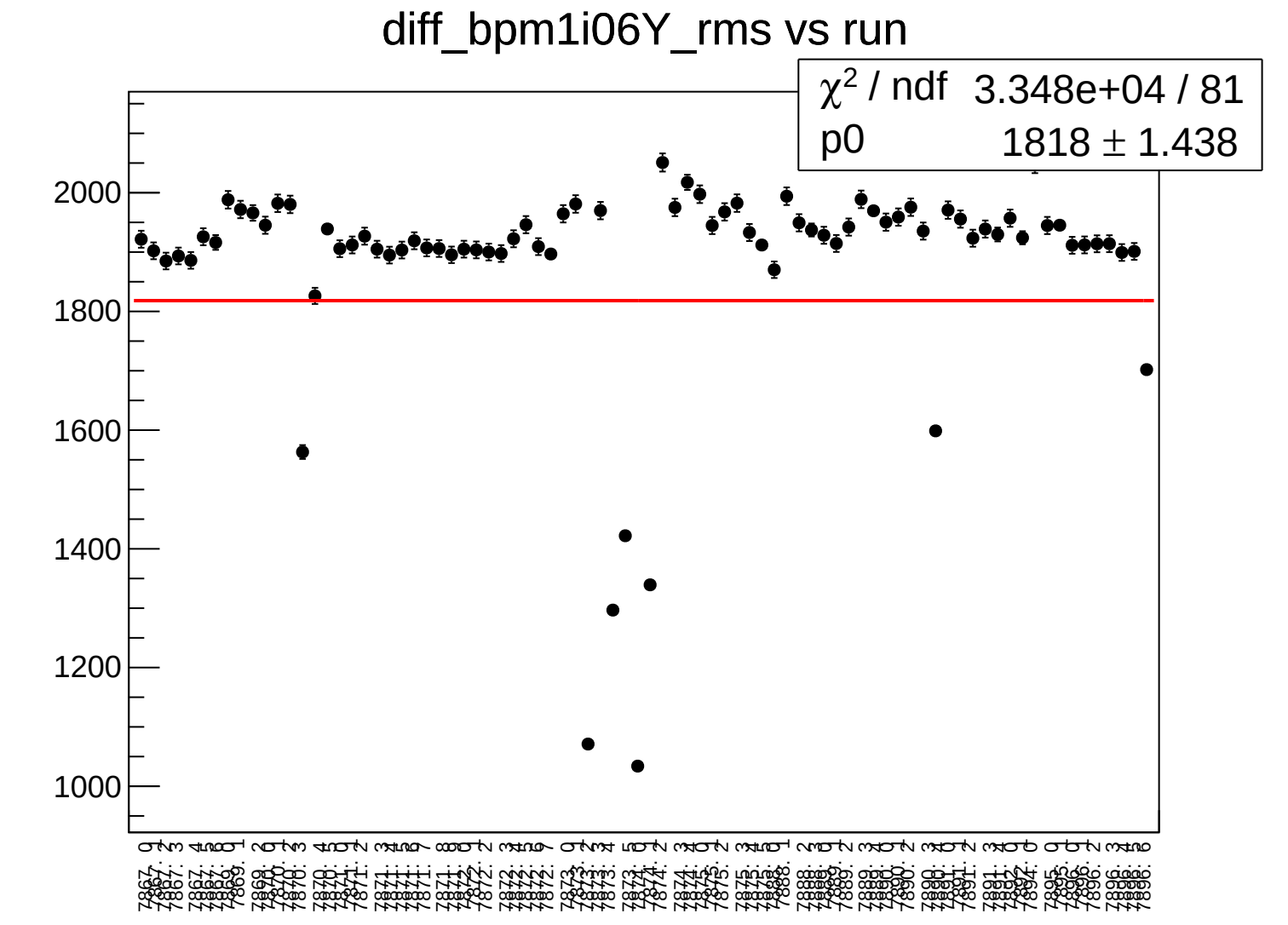

diff_bpm1i06X_mean vs run
χ² / ndf 98.57 / 81
p0 −43.9 ± 1.842
pull
Entries 82
Mean −12.86
Std Dev 67.71

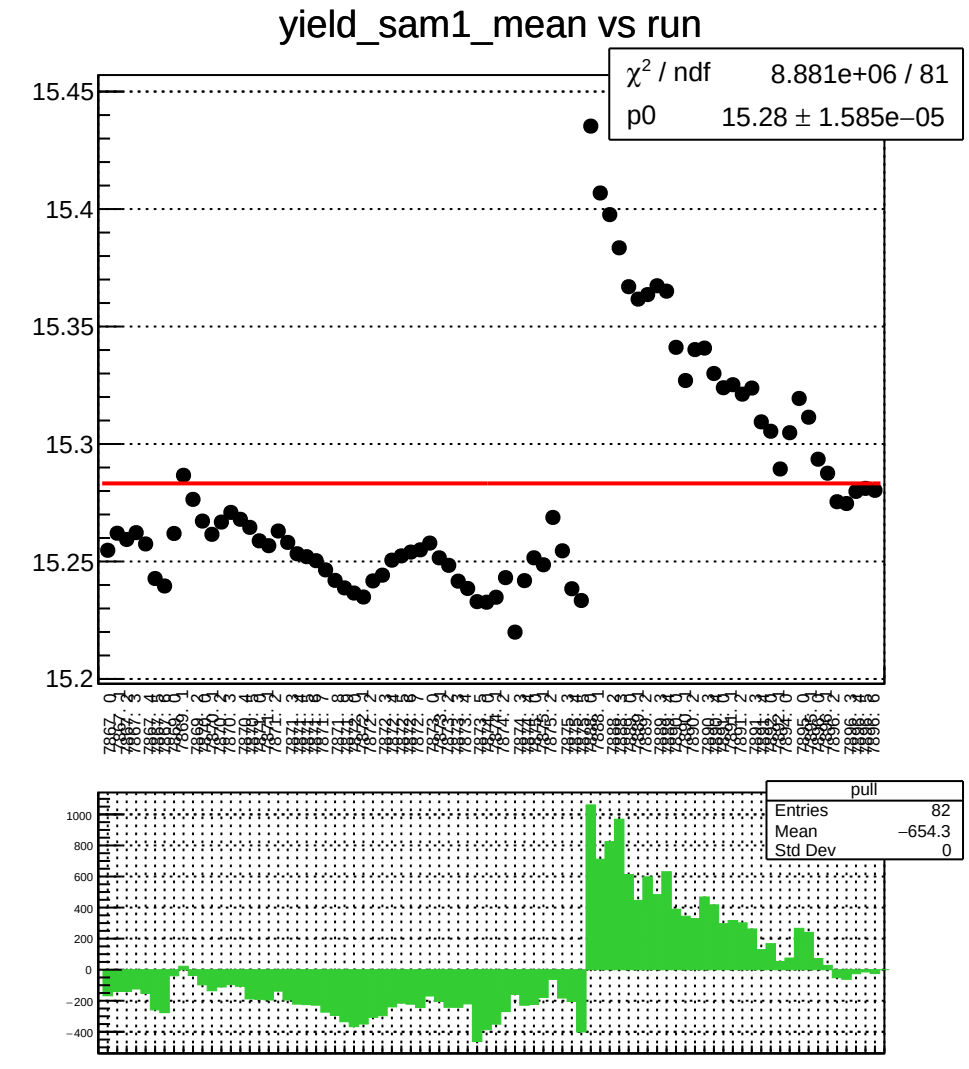

pull1D
Entries 82
Mean 0.007764
Std Dev 1.096

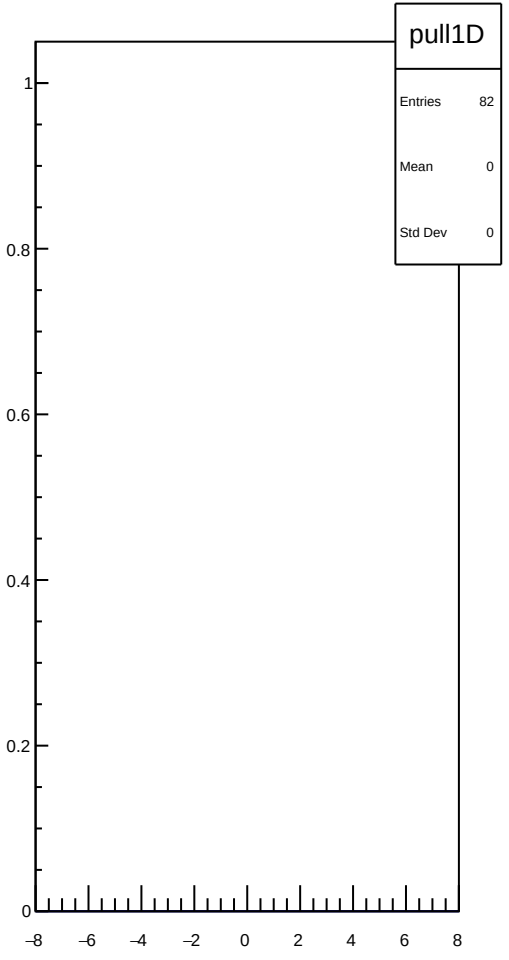

diff_bpm1i06X_rms vs run
χ² / ndf 1.619e+04 / 81
p0 1656 ± 1.303
1900
1800
1700
1600
1500
1400
1300
1200
1100

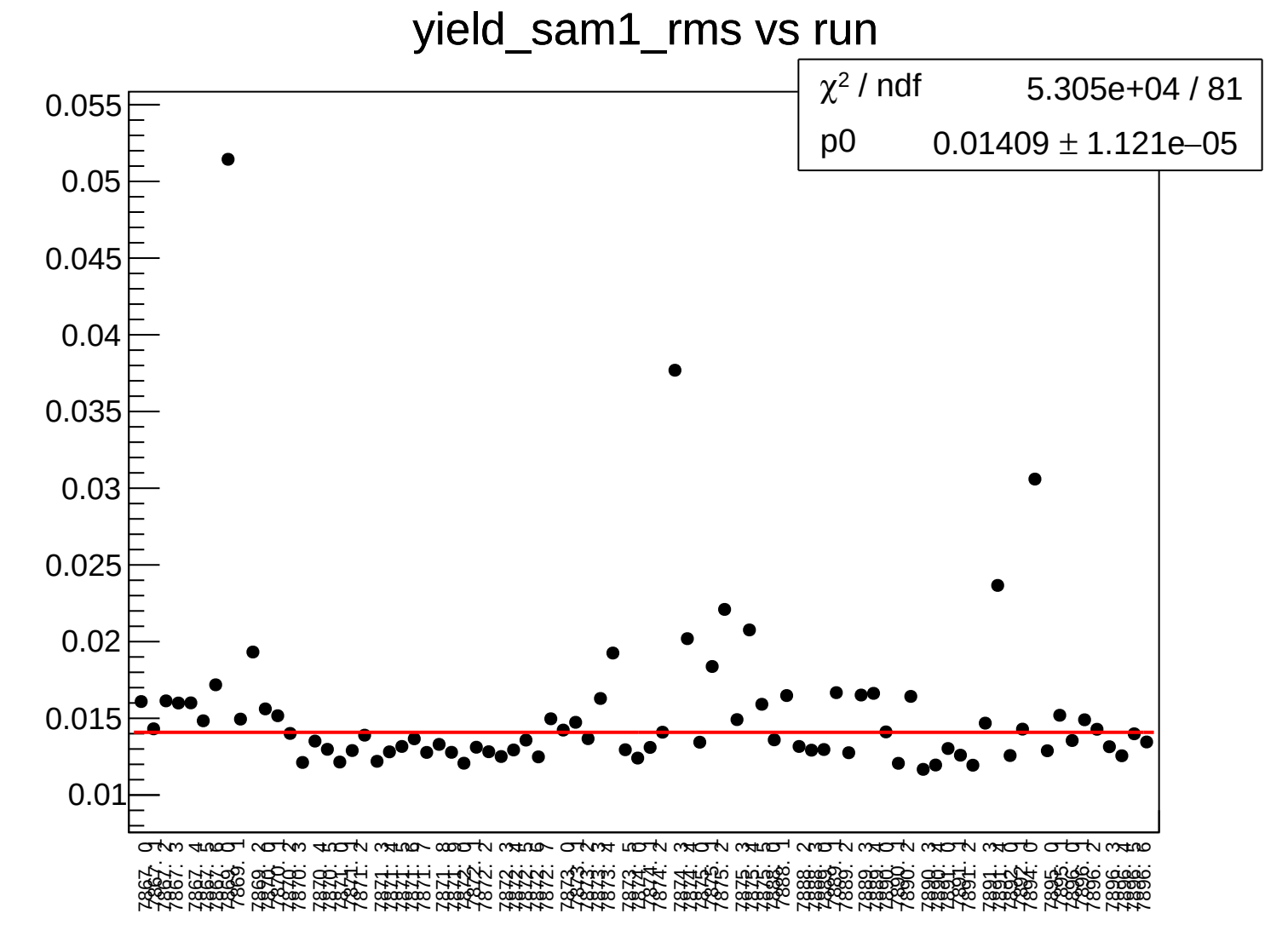

diff_bpm1i06Y_mean vs run
χ^2 / ndf 81.19 / 81
p0 4.397 ± 2.034
pull
Entries 82
Mean −61.88
Std Dev 0

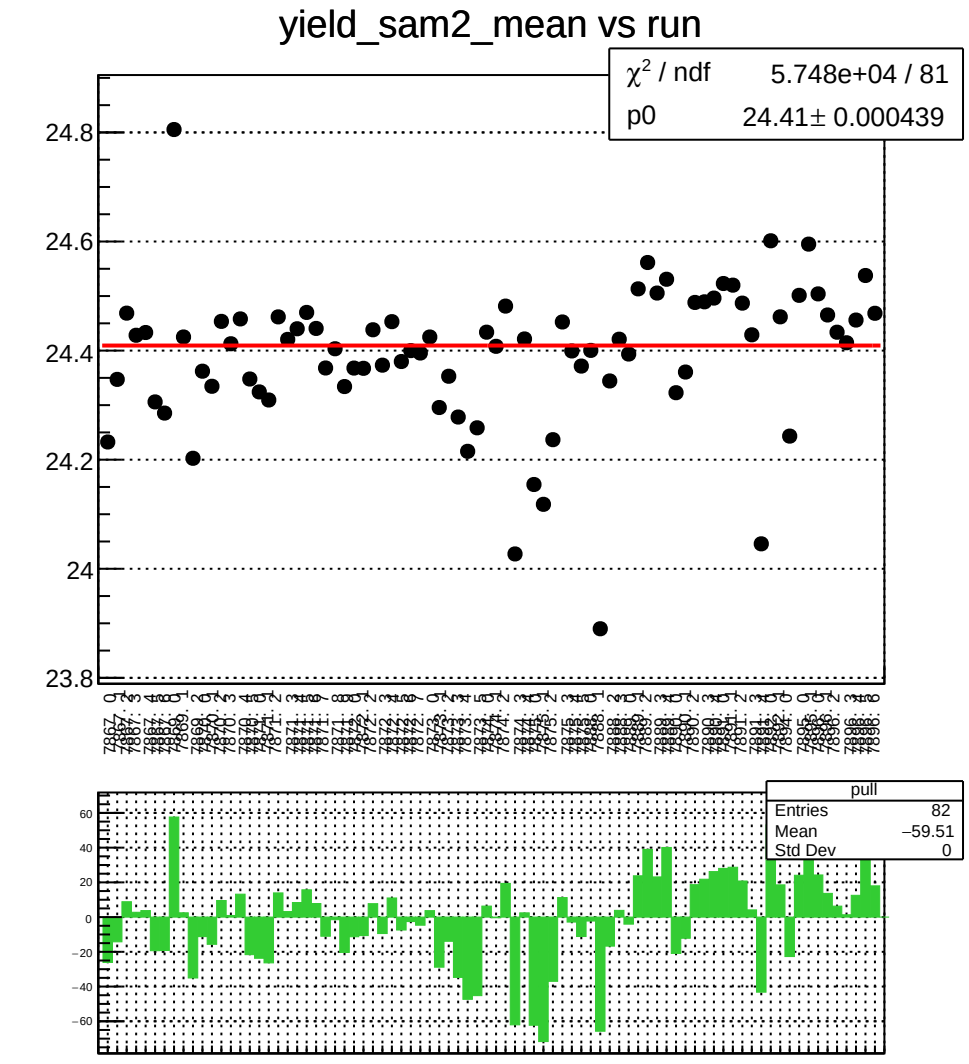

pull1D
Entries 82
Mean 0.03264
Std Dev 0.9945

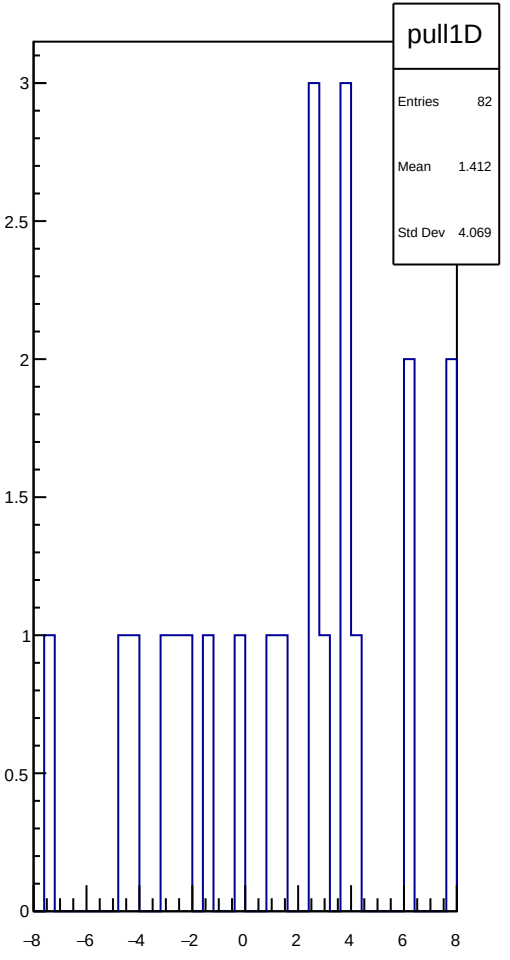

diff_bpm1i06Y_rms vs run
χ² / ndf 3.348e+04 / 81
p0 1818 ± 1.438
2000
1800
1600
1400
1200
1000

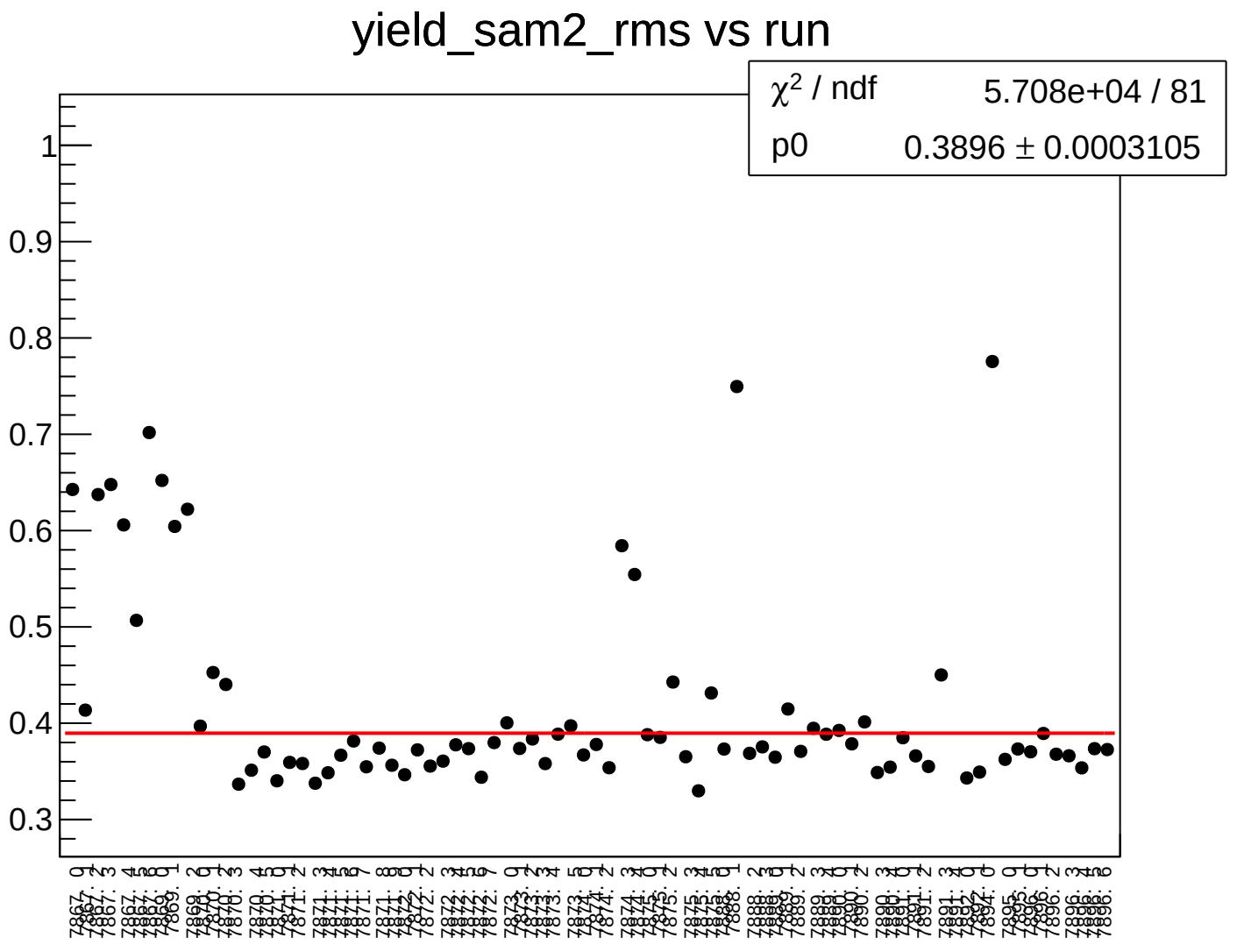

yield_sam1_mean vs run
χ² / ndf 8.881e+06 / 81
p0 15.28 ± 1.585e−05
15.45
15.4
15.35
15.3
15.25
15.2
pull
Entries 82
Mean −654.3
Std Dev 0
1000
800
600
400
200
0
−200
−400

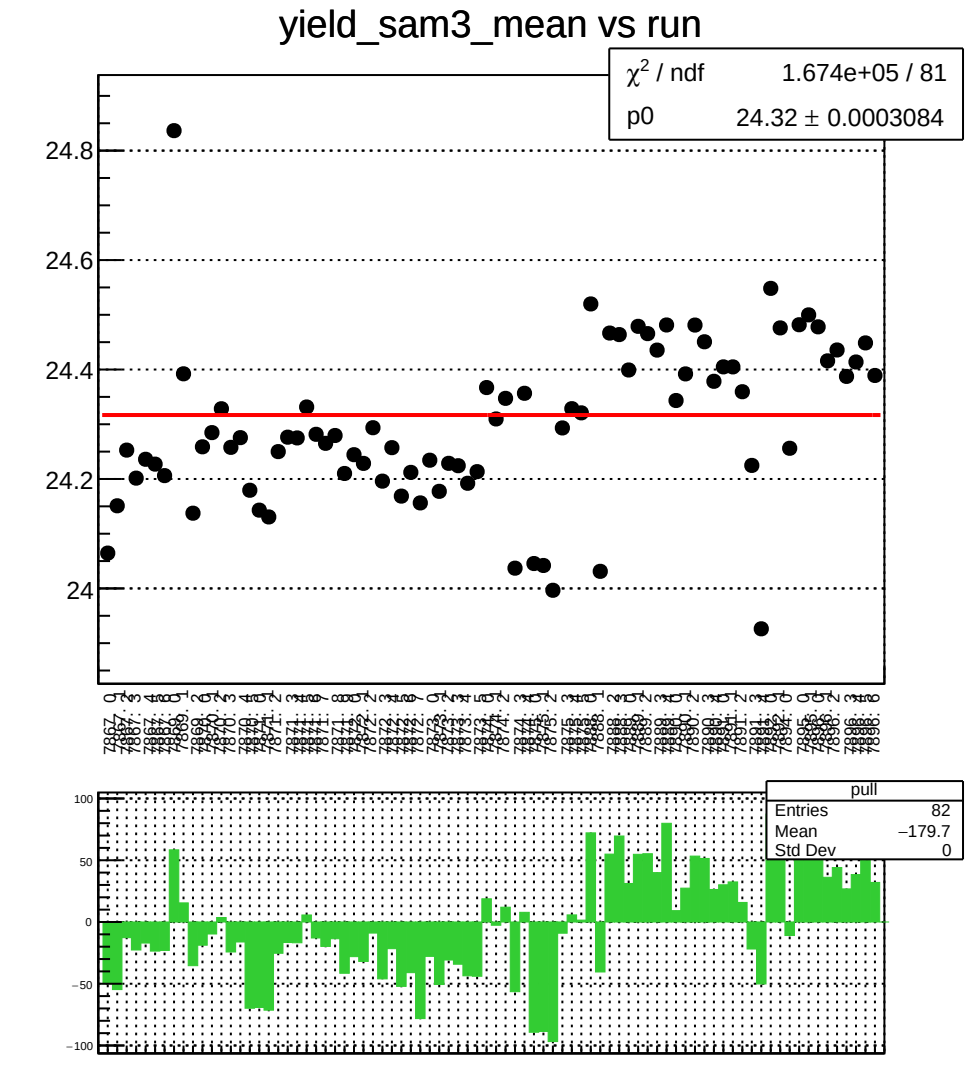

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

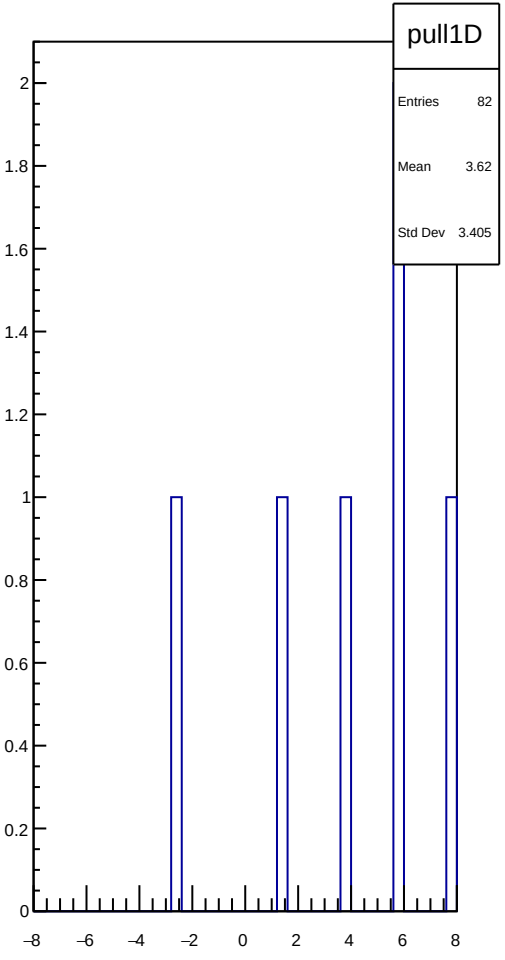

yield_sam1_rms vs run
χ² / ndf 5.305e+04 / 81
p0 0.01409 ± 1.121e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

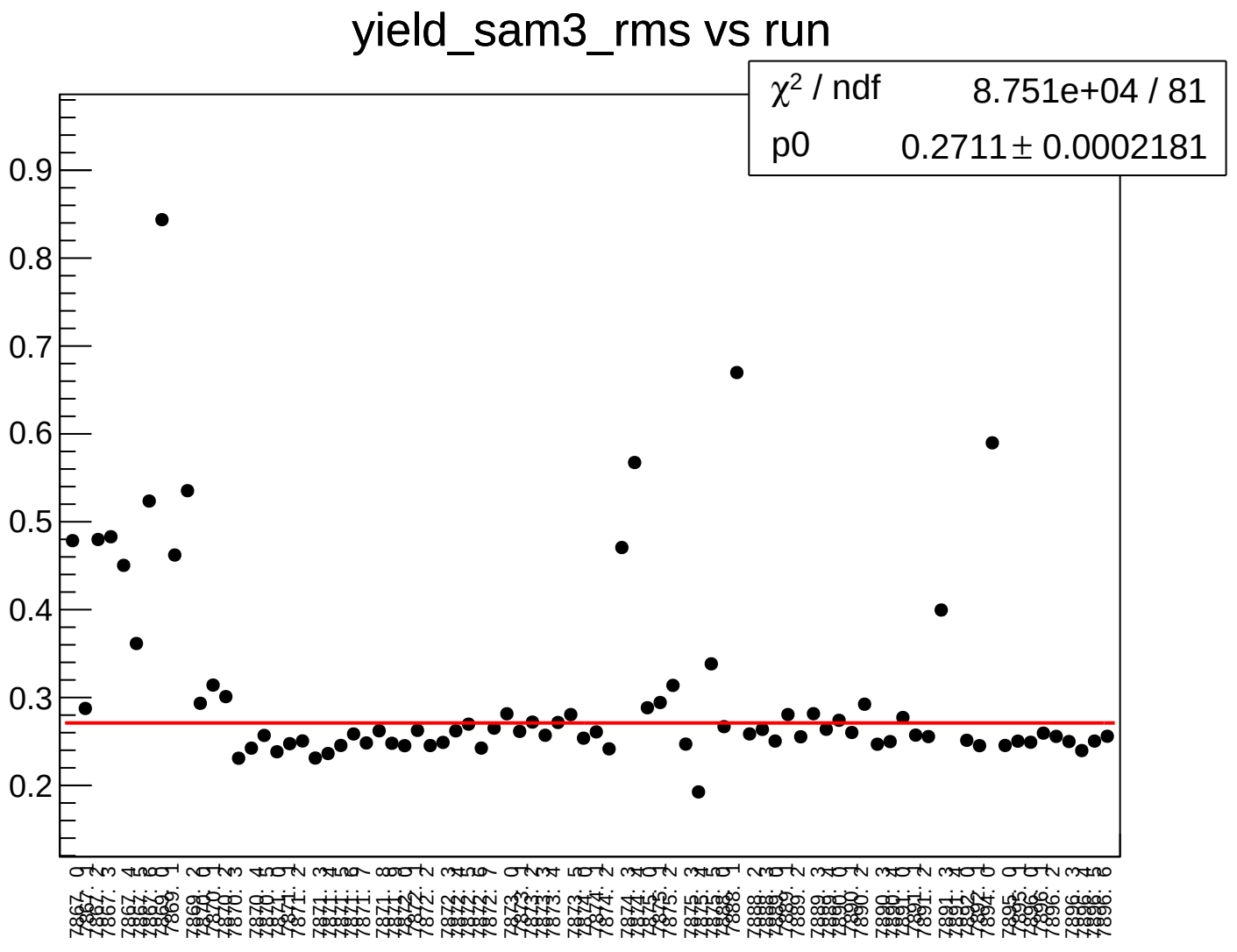

yield_sam2_mean vs run
χ² / ndf 5.748e+04 / 81
p0 24.41± 0.000439
24.8
24.6
24.4
24.2
24
23.8
pull
Entries 82
Mean −59.51
Std Dev 0
60
40
20
0
−20
−40
−60

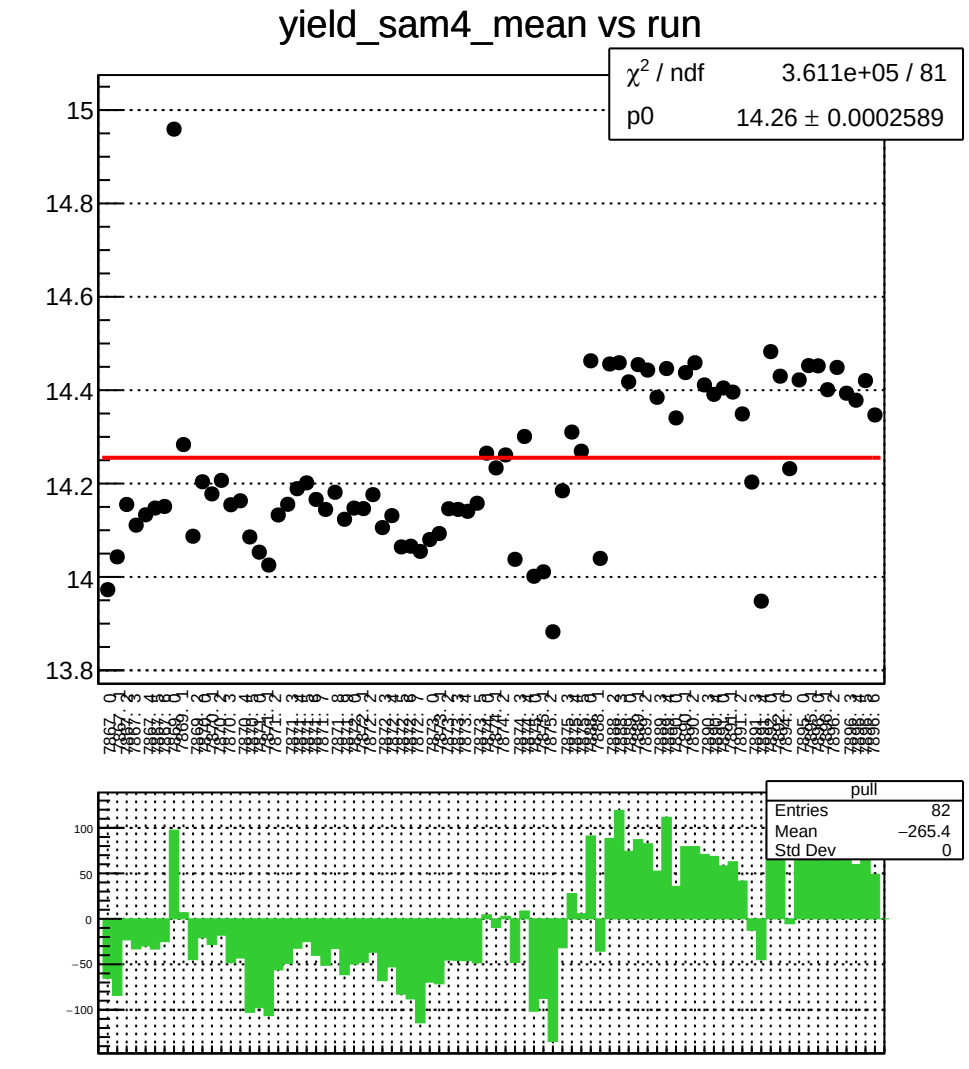

pull1D
Entries 82
Mean 1.412
Std Dev 4.069
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

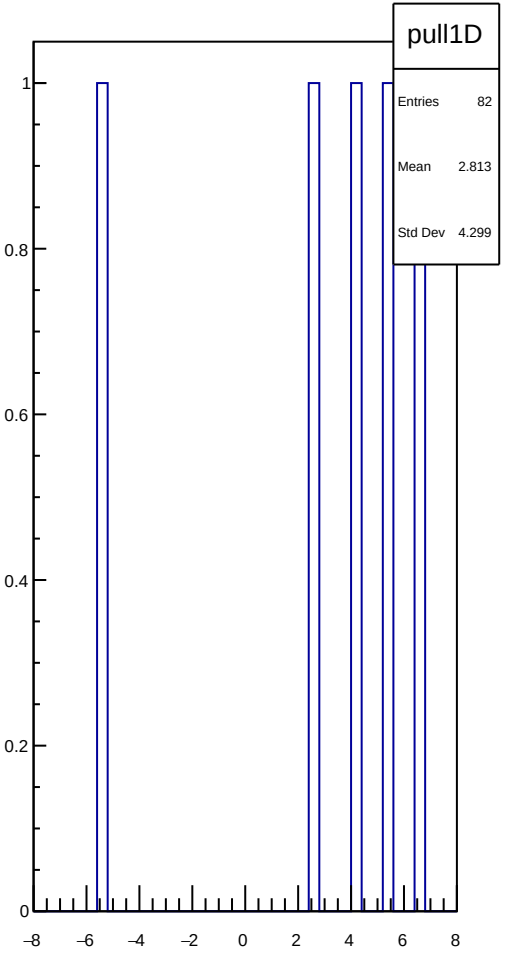

yield_sam2_rms vs run
χ^2 / ndf 5.708e+04 / 81
p0 0.3896 ± 0.0003105
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

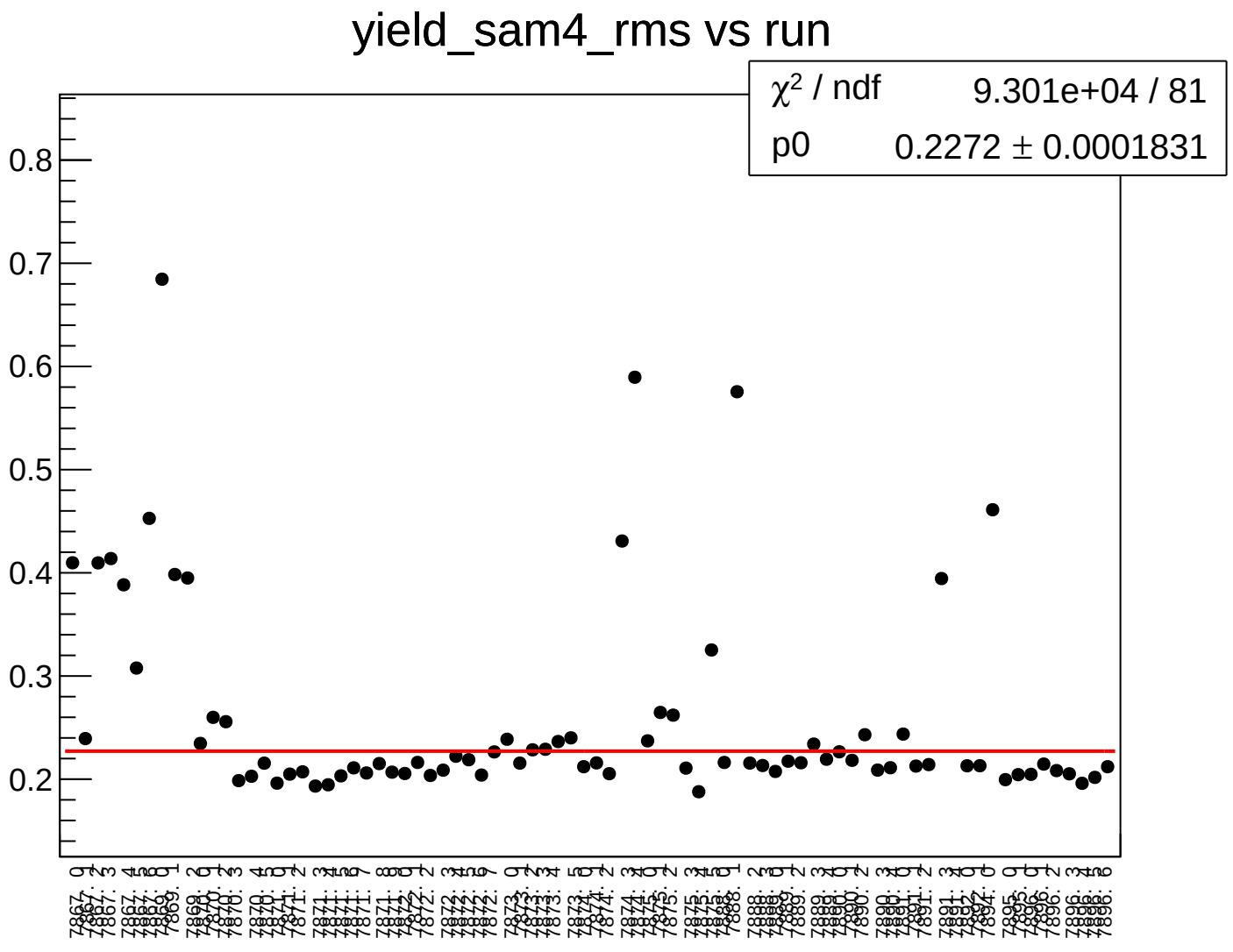

yield_sam3_mean vs run
χ² / ndf 1.674e+05 / 81
p0 24.32 ± 0.0003084
24.8
24.6
24.4
24.2
24
pull
Entries 82
Mean −179.7
Std Dev 0
100
50
0
−50
−100

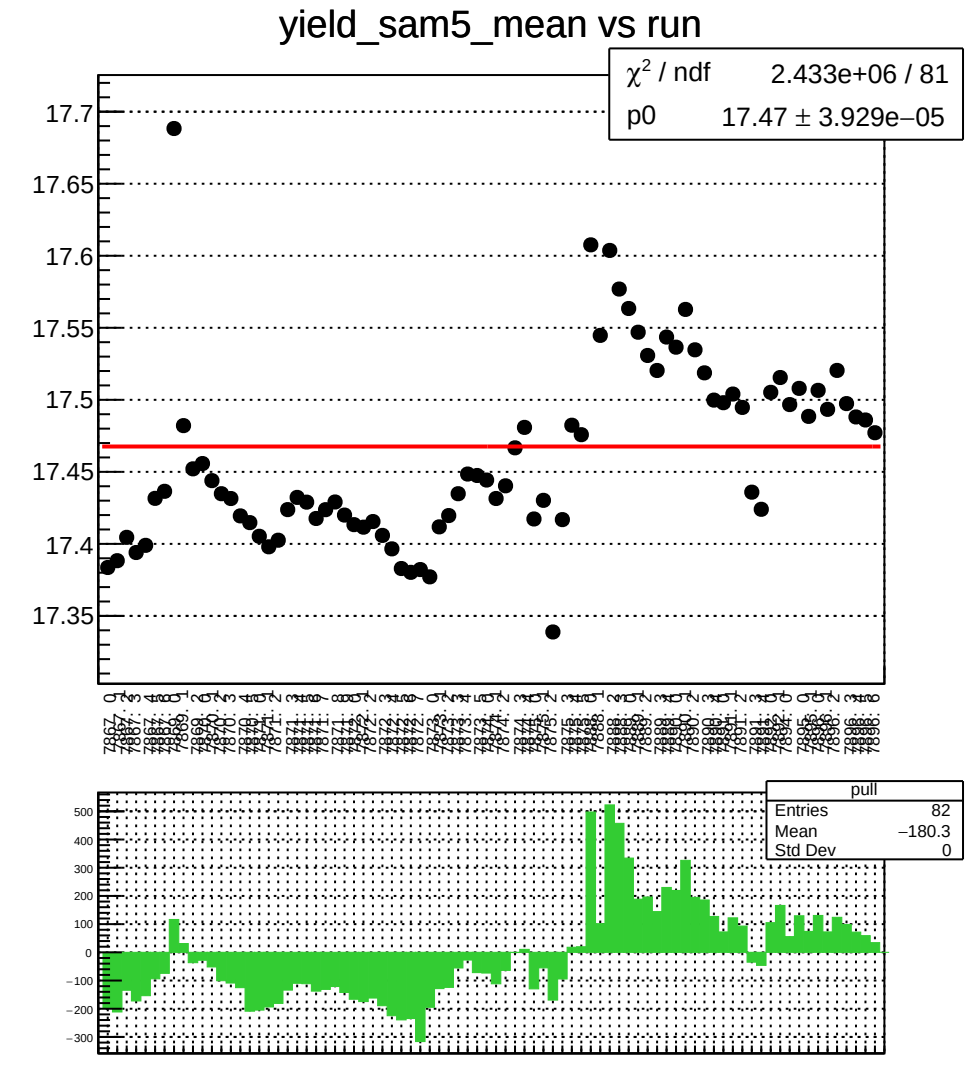

pull1D
Entries 82
Mean 3.62
Std Dev 3.405
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

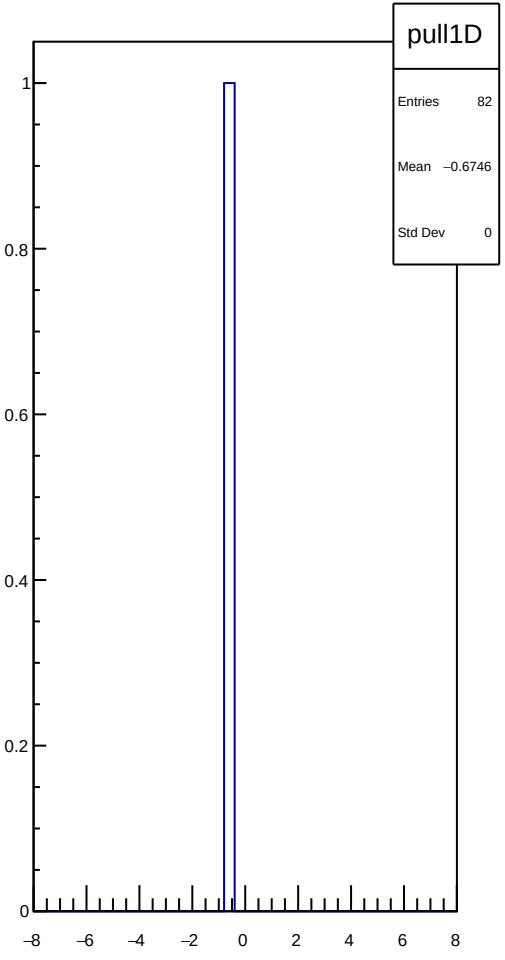

yield_sam3_rms vs run
χ² / ndf 8.751e+04 / 81
p0 0.2711 ± 0.0002181
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

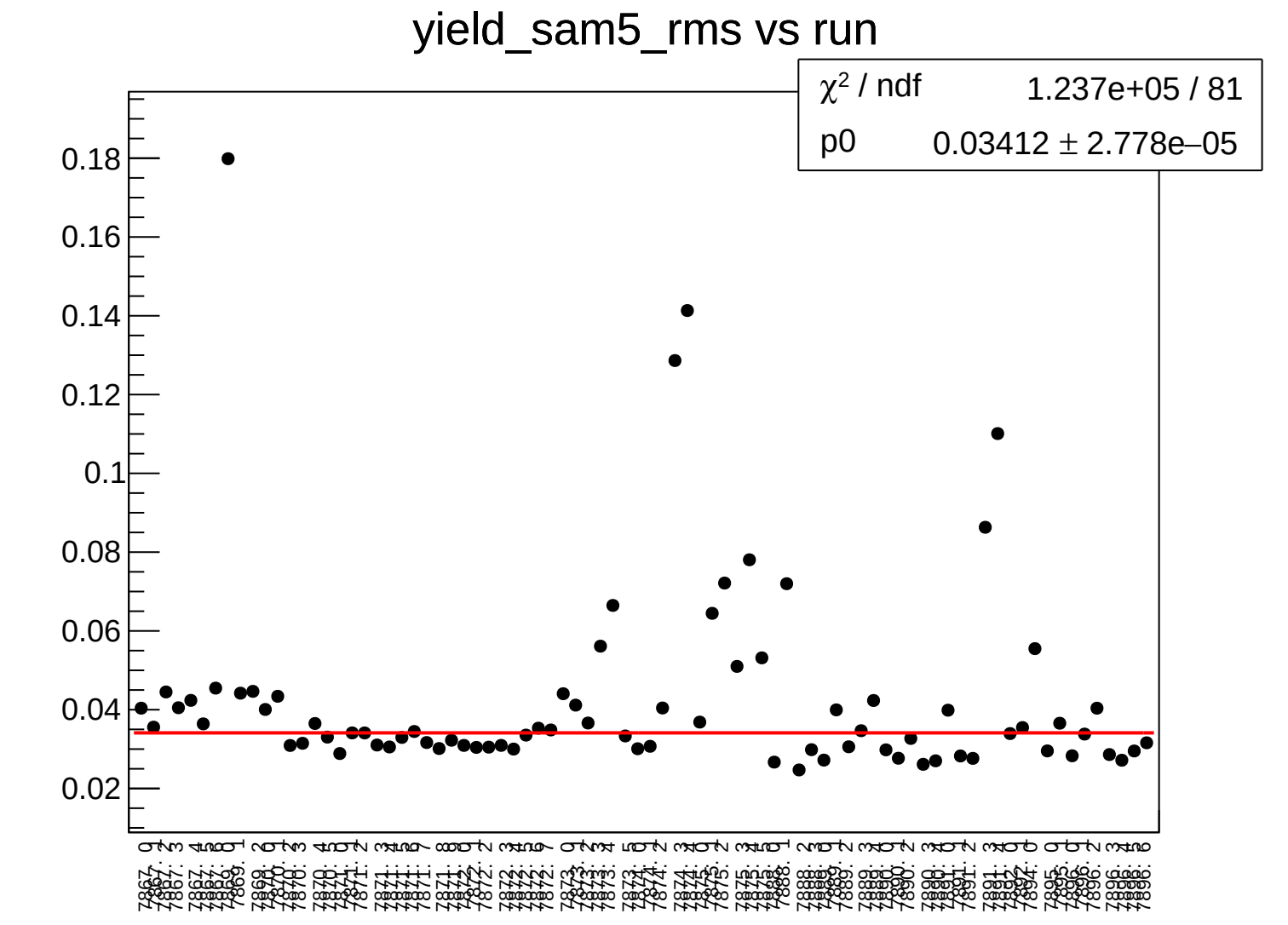

yield_sam4_mean vs run
χ² / ndf 3.611e+05 / 81
p0 14.26 ± 0.0002589
15
14.8
14.6
14.4
14.2
14
13.8
pull
Entries 82
Mean −265.4
Std Dev 0
100
50
0
−50
−100

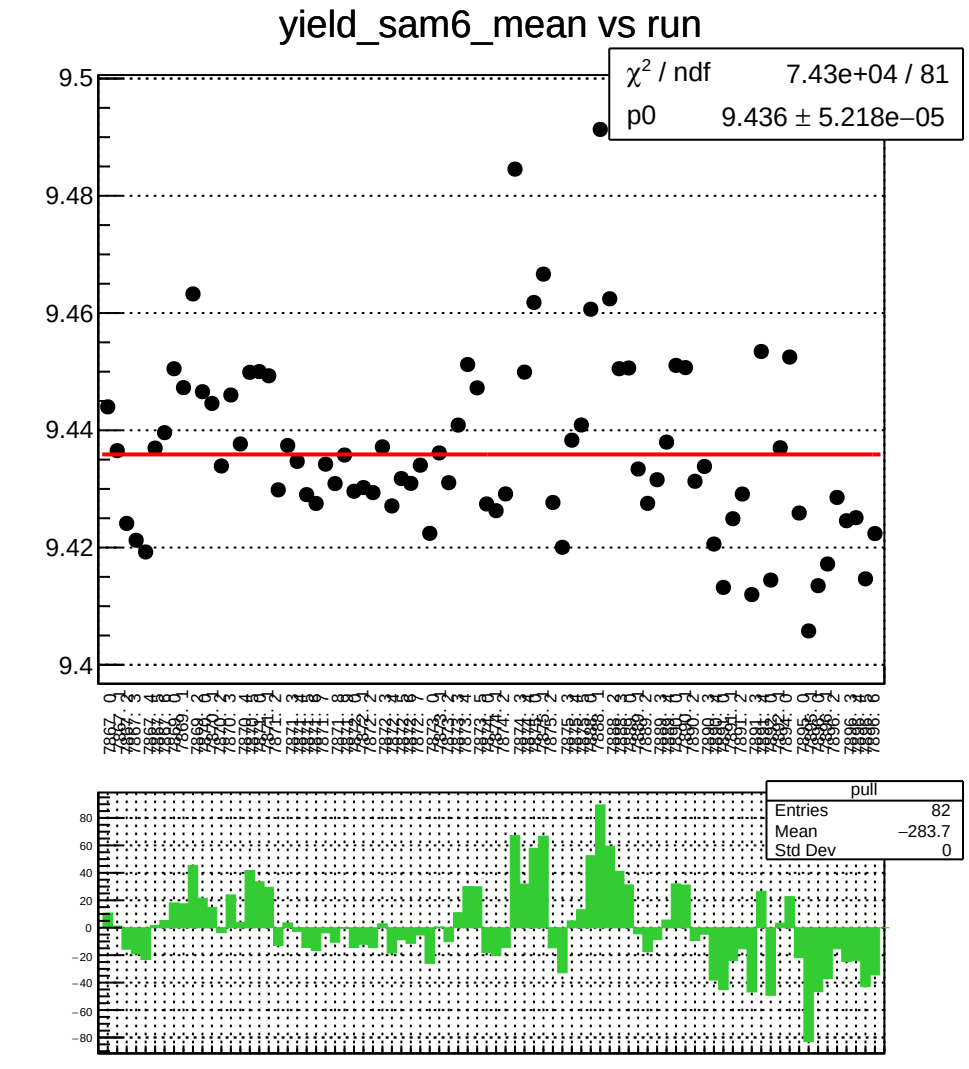

pull1D
Entries 82
Mean 2.813
Std Dev 4.299
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

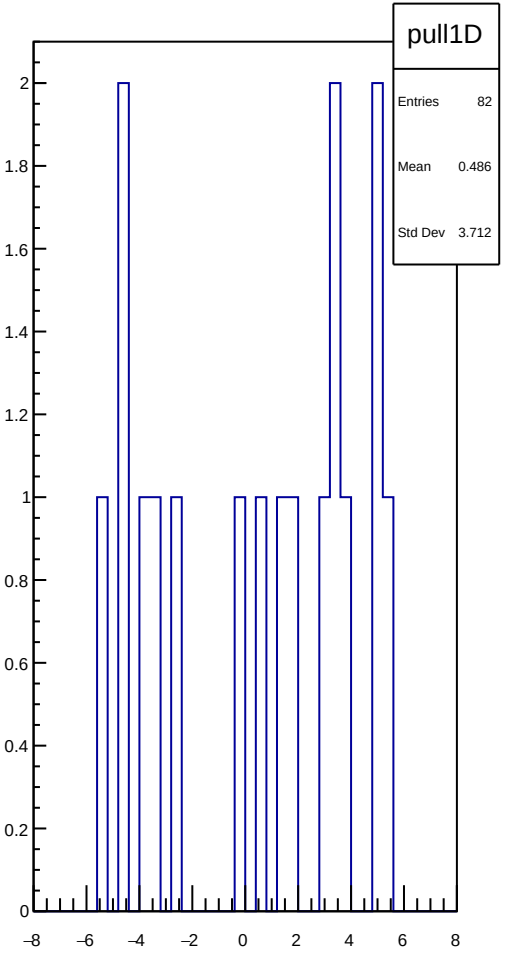

yield_sam4_rms vs run
χ² / ndf 9.301e+04 / 81
p0 0.2272 ± 0.0001831
0.8
0.7
0.6
0.5
0.4
0.3
0.2

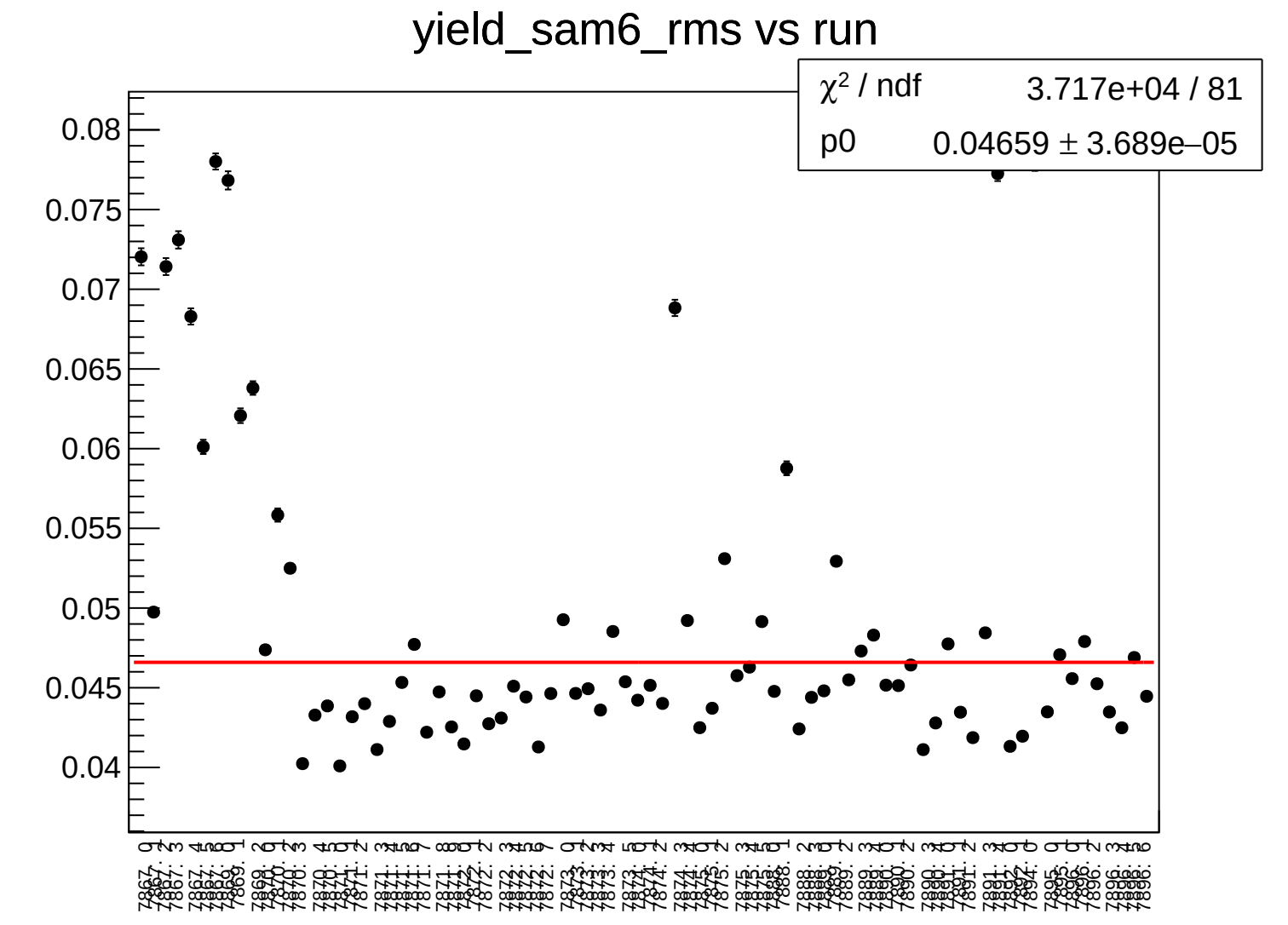

yield_sam5_mean vs run
χ² / ndf 2.433e+06 / 81
p0 17.47 ± 3.929e−05
17.7
17.65
17.6
17.55
17.5
17.45
17.4
17.35
pull
Entries 82
Mean −180.3
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

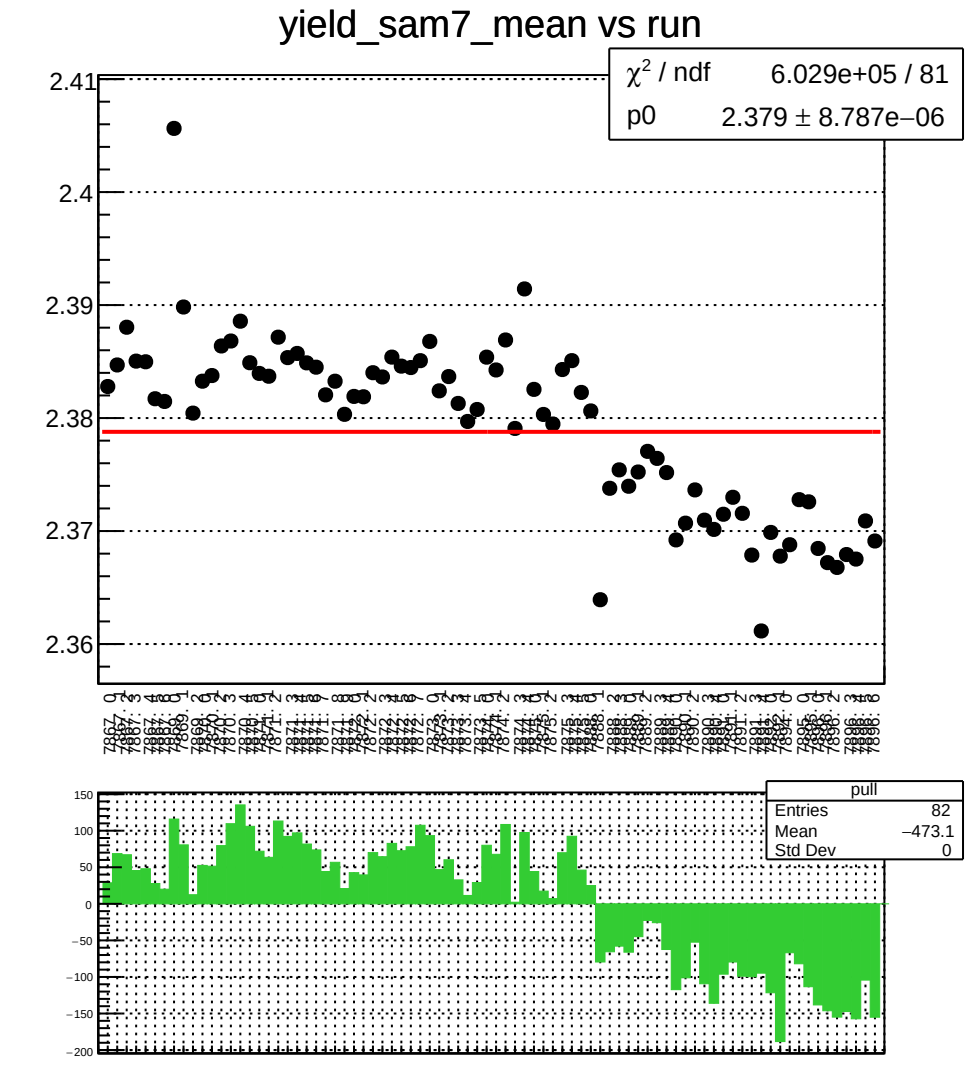

pull1D
Entries 82
Mean −0.6746
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

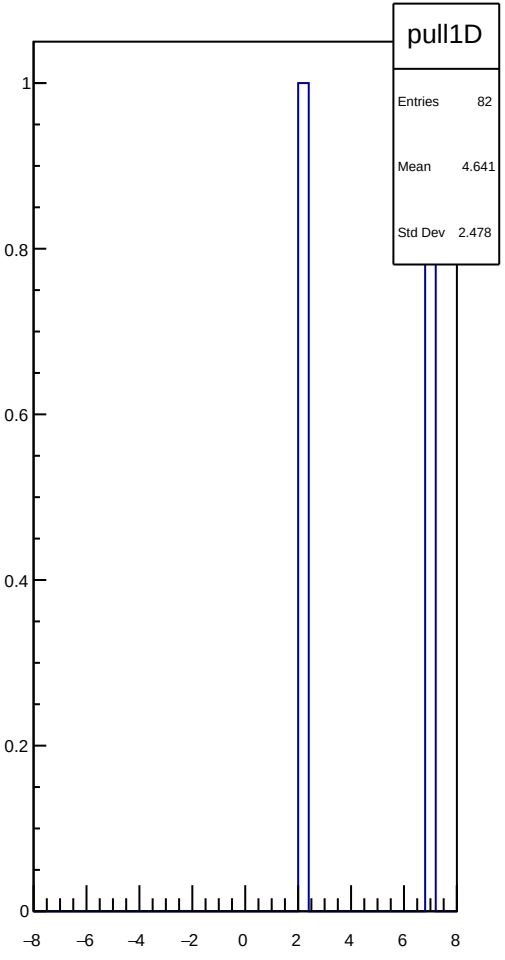

yield_sam5_rms vs run
χ² / ndf 1.237e+05 / 81
p0 0.03412 ± 2.778e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

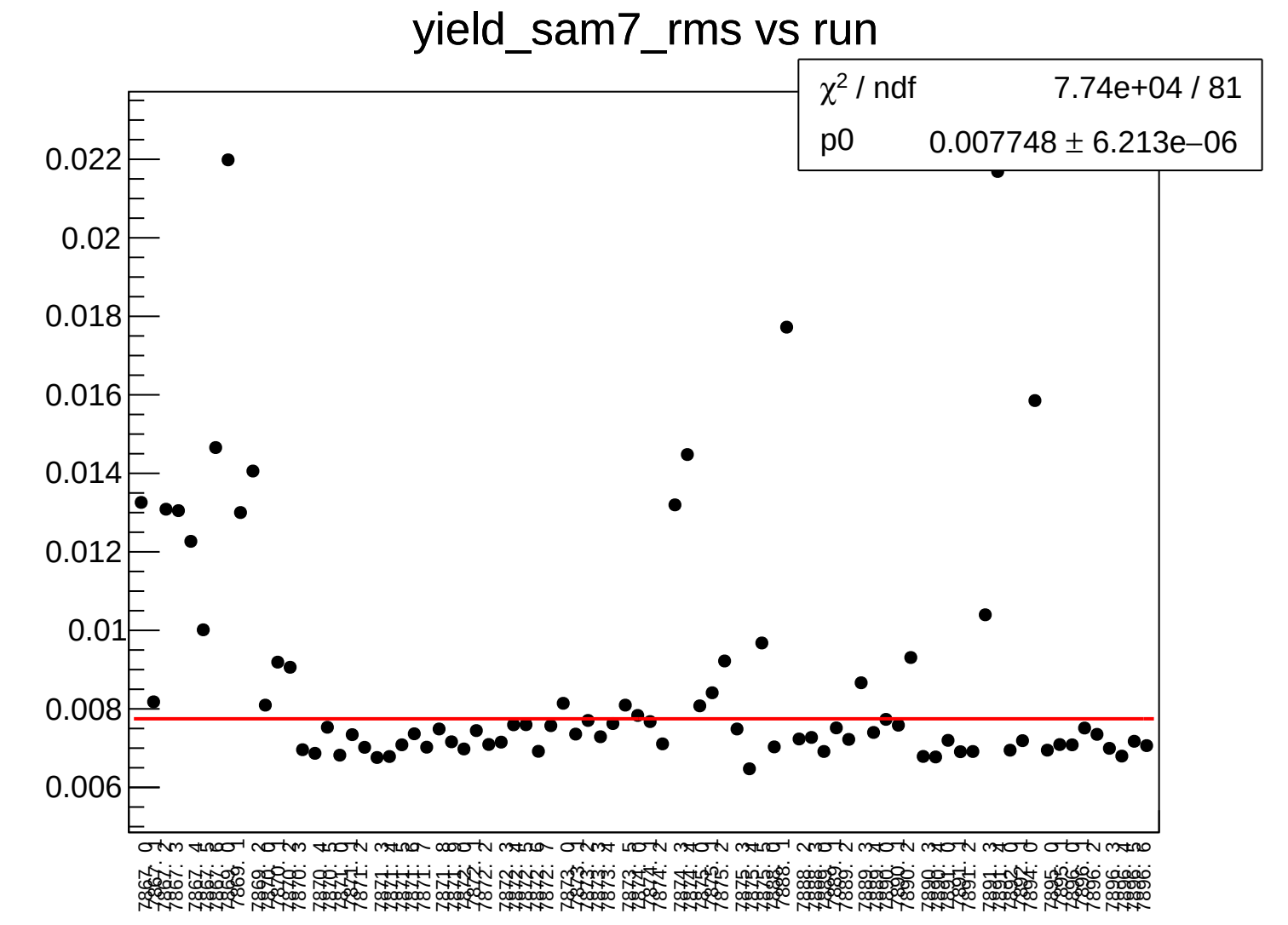

yield_sam6_mean vs run
χ² / ndf 7.43e+04 / 81
p0 9.436 ± 5.218e−05
9.5
9.48
9.46
9.44
9.42
9.4
pull
Entries 82
Mean −283.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

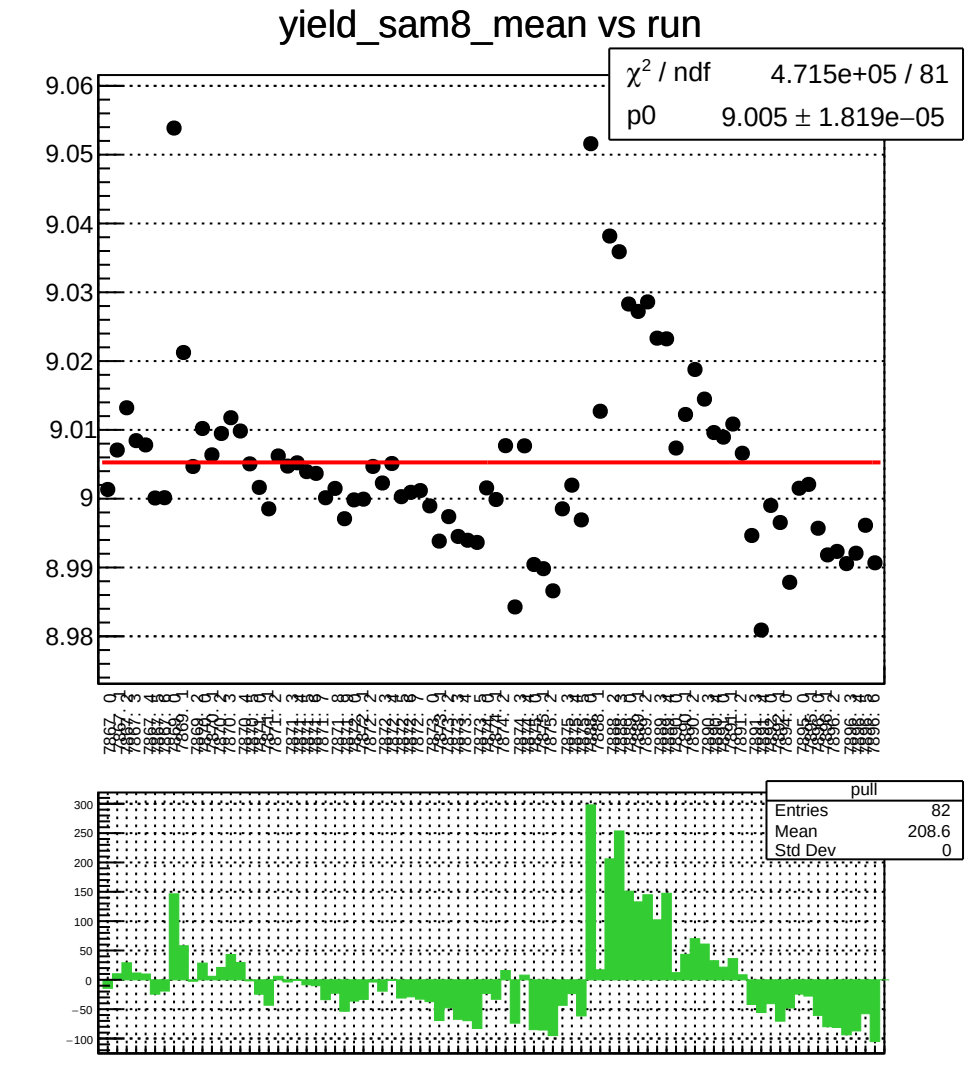

pull1D
Entries 82
Mean 0.486
Std Dev 3.712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

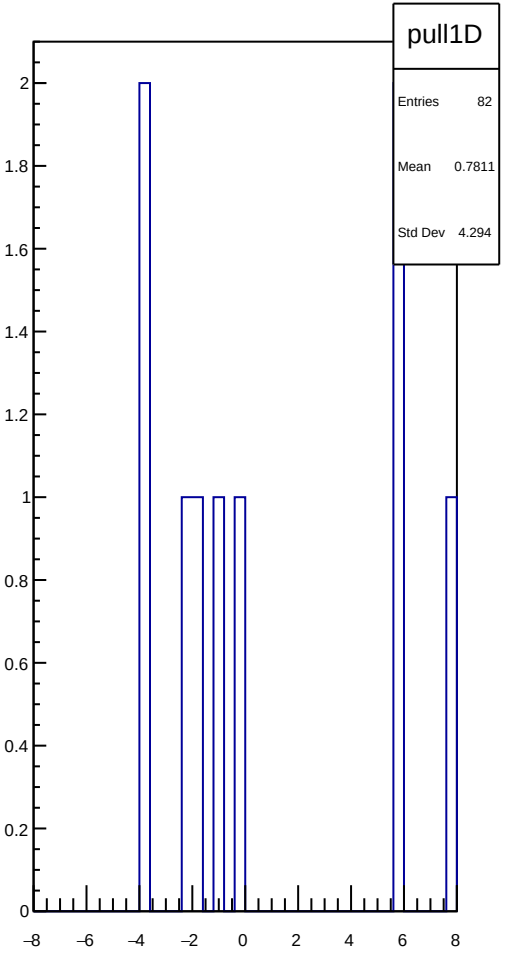

yield_sam6_rms vs run
χ² / ndf 3.717e+04 / 81
p0 0.04659 ± 3.689e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

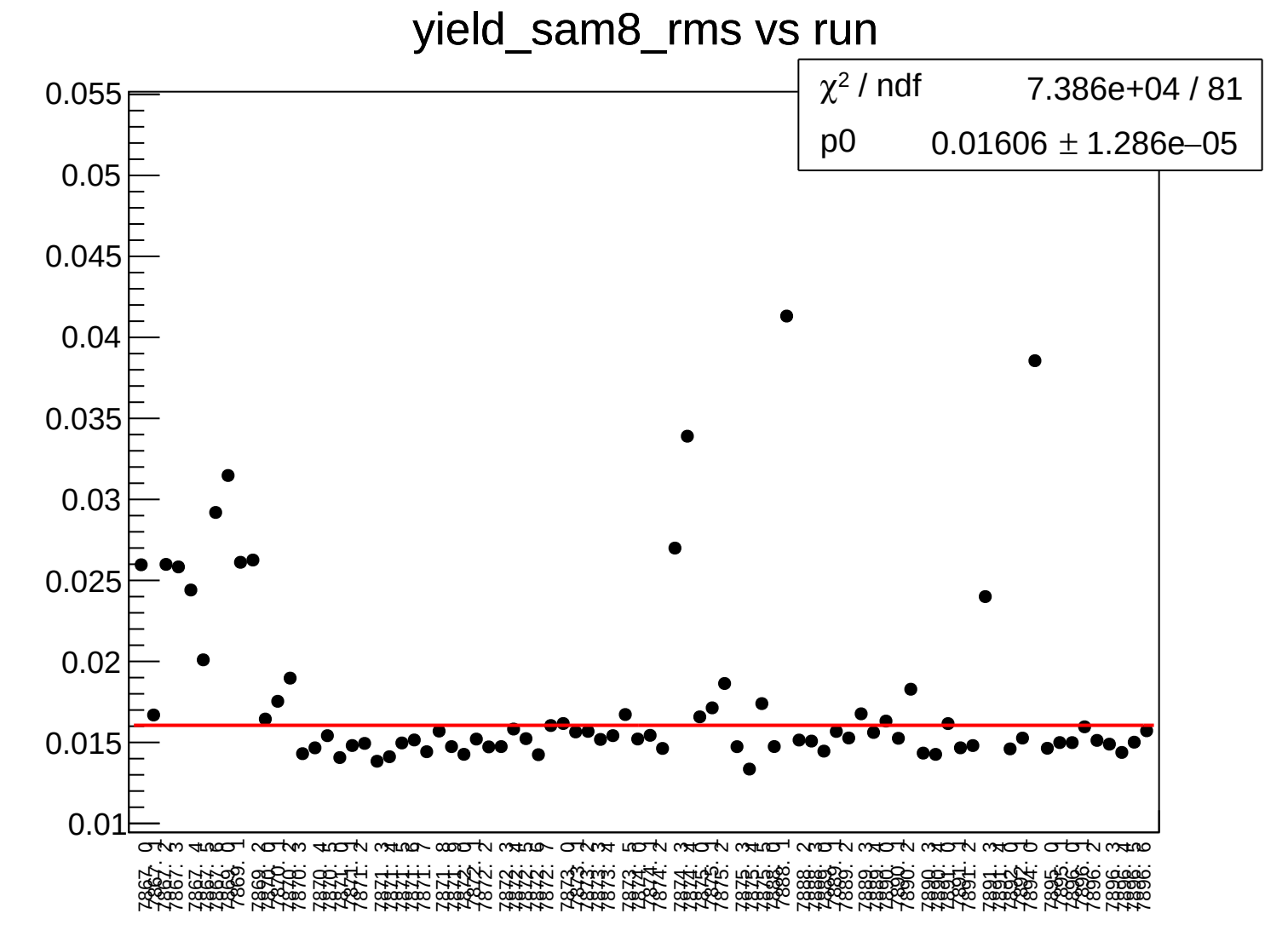

yield_sam7_mean vs run
χ² / ndf 6.029e+05 / 81
p0 2.379 ± 8.787e−06
2.41
2.4
2.39
2.38
2.37
2.36
pull
Entries 82
Mean −473.1
Std Dev 0
150
100
50
0
−50
−100
−150
−200

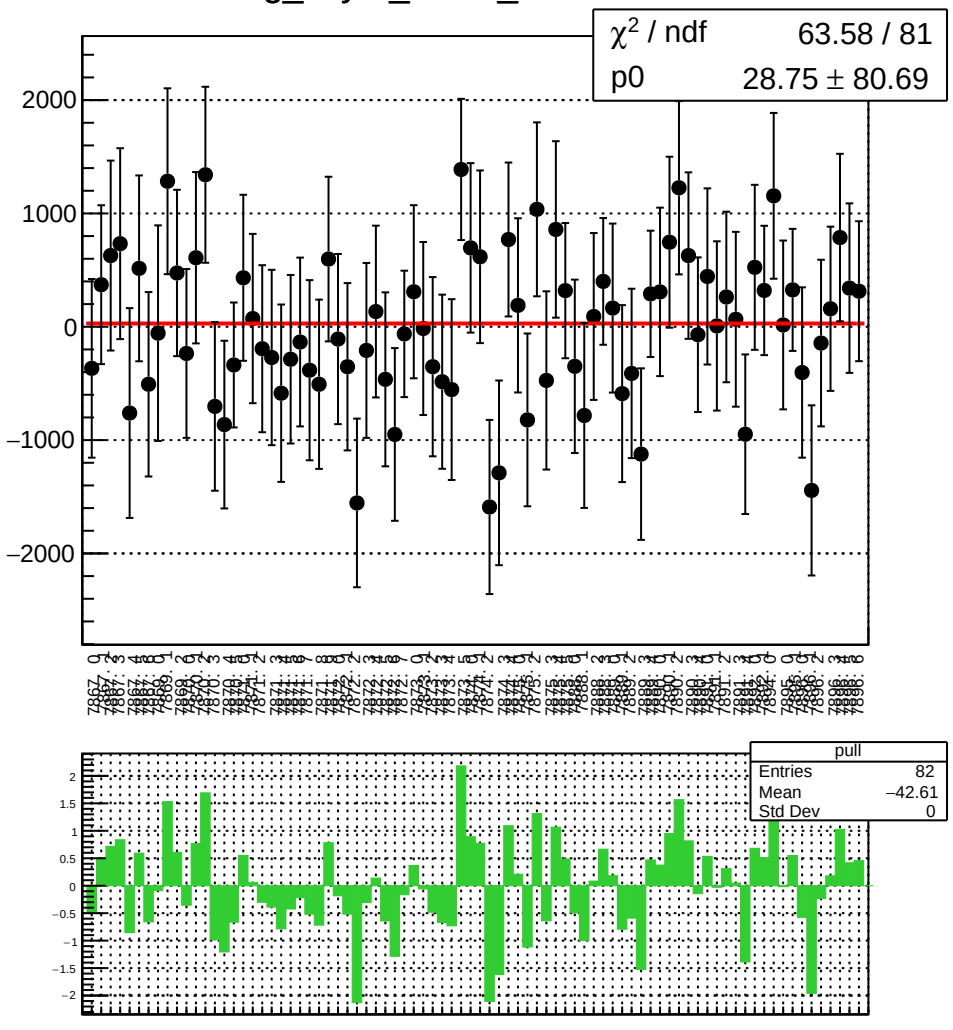

pull1D
Entries 82
Mean 4.641
Std Dev 2.478
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

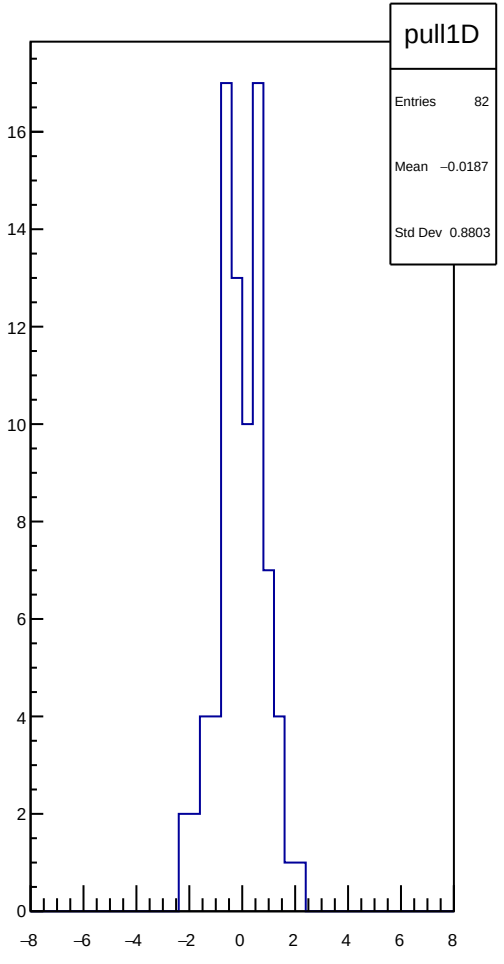

yield_sam7_rms vs run
χ^2 / ndf 7.74e+04 / 81
p0 0.007748 ± 6.213e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

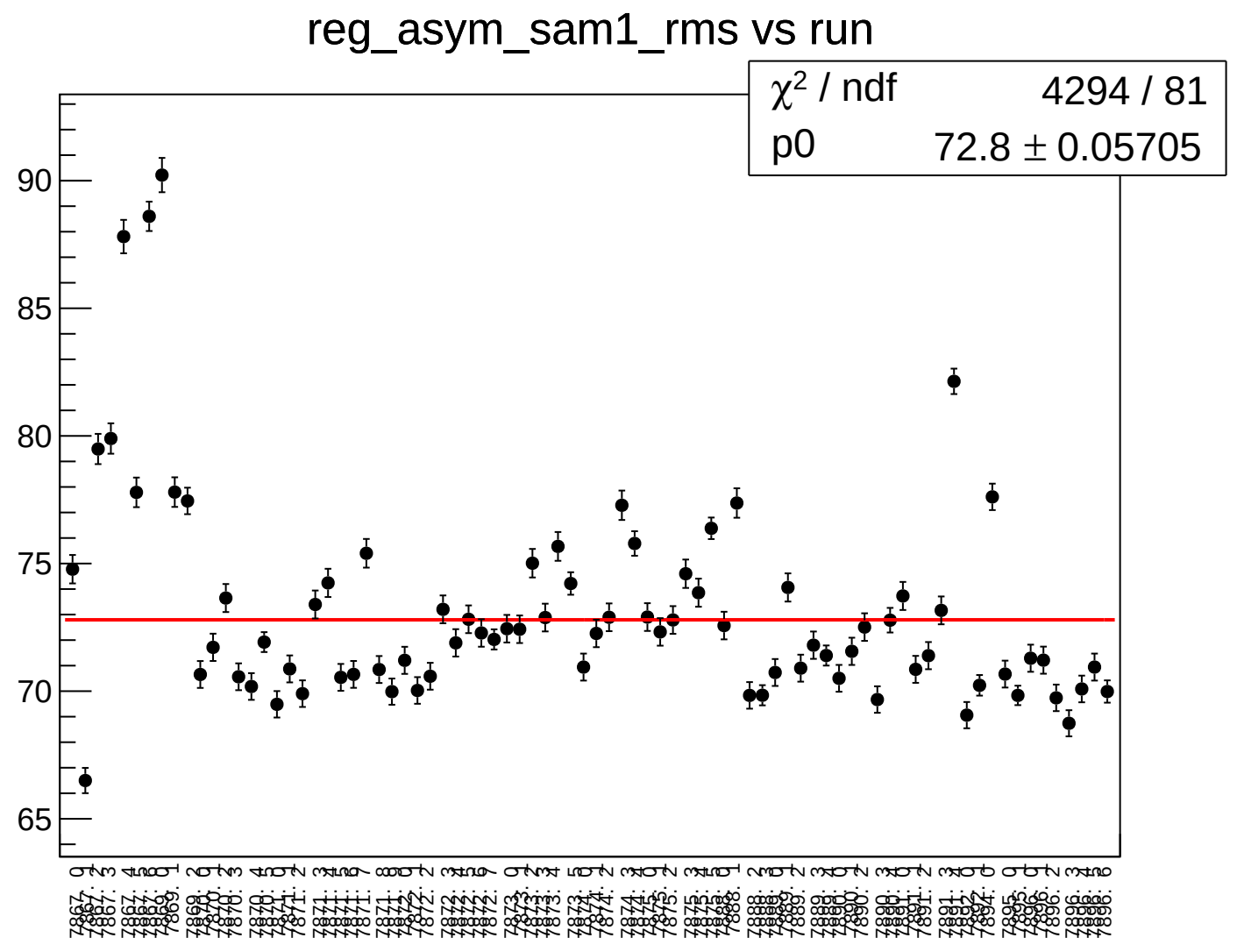

yield_sam8_mean vs run
χ^2 / ndf 4.715e+05 / 81
p0 9.005 ± 1.819e−05
9.06
9.05
9.04
9.03
9.02
9.01
9
8.99
8.98
pull
Entries 82
Mean 208.6
Std Dev 0
300
250
200
150
100
50
0
−50
−100

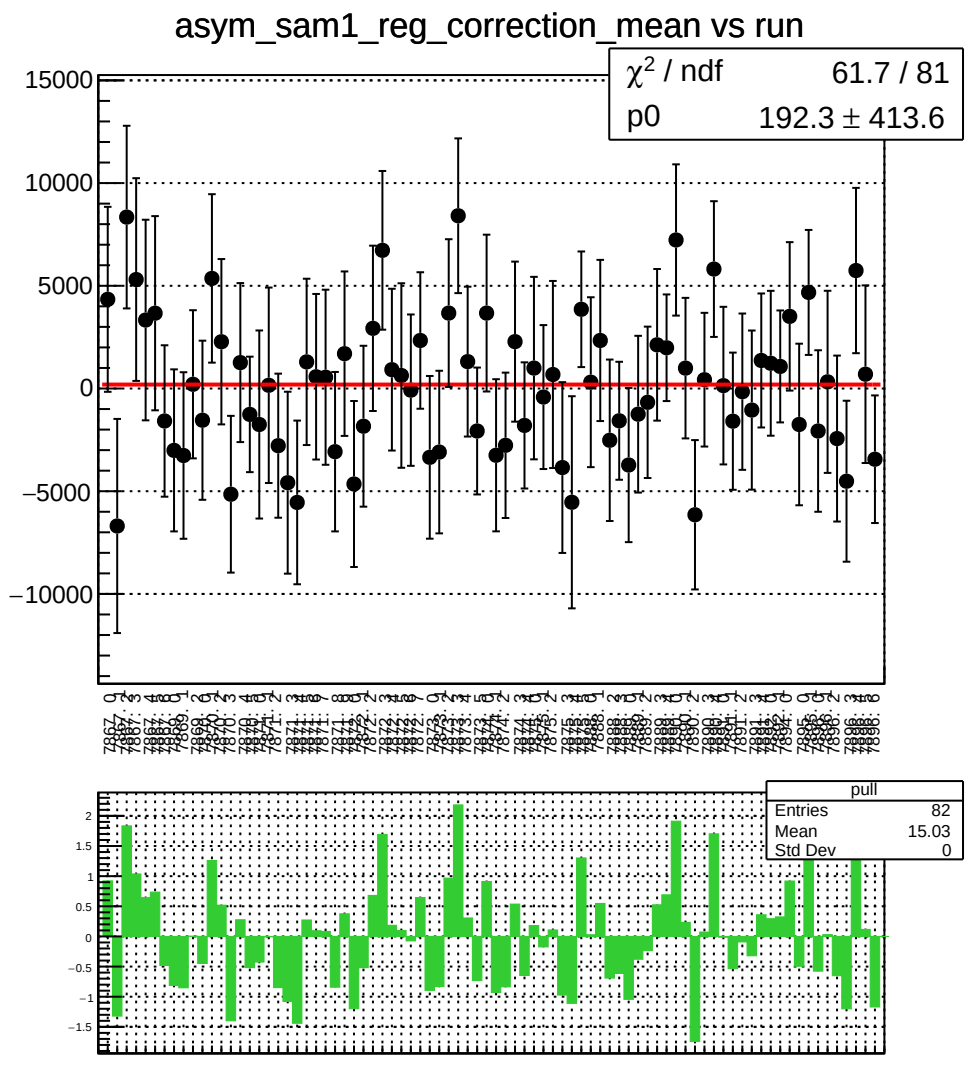

pull1D
Entries 82
Mean 0.7811
Std Dev 4.294
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

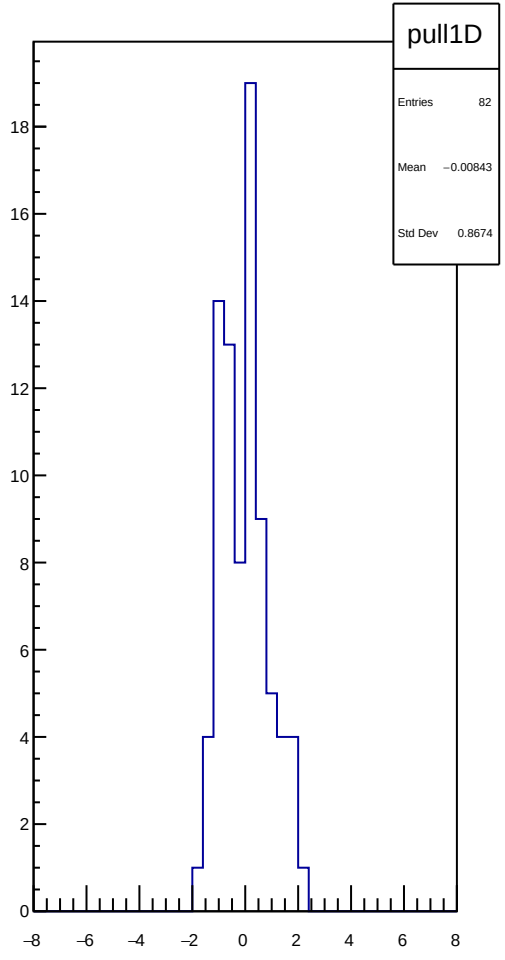

yield_sam8_rms vs run
χ² / ndf 7.386e+04 / 81
p0 0.01606 ± 1.286e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

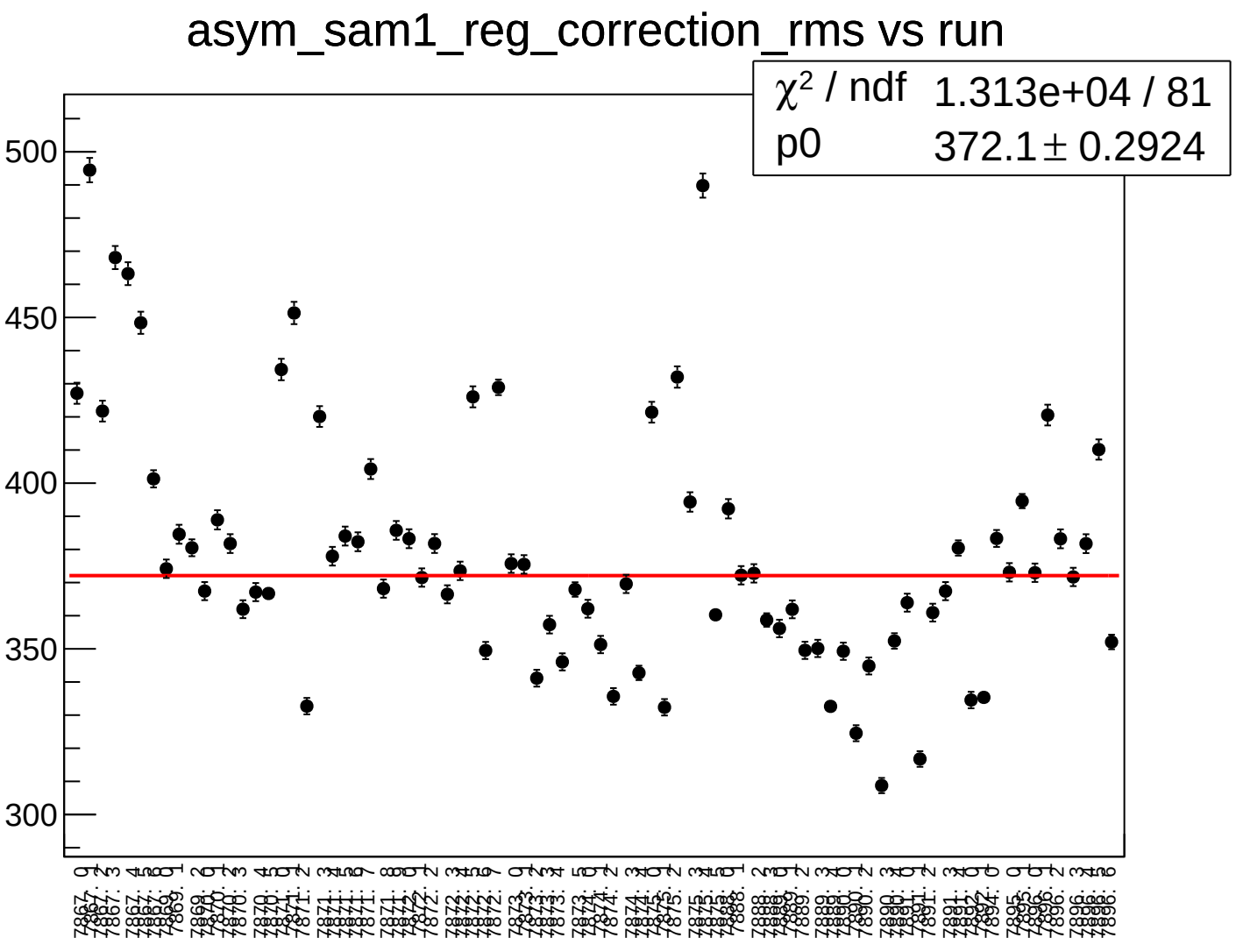

reg_asym_sam1_mean vs run
χ² / ndf 63.58 / 81
p0 28.75 ± 80.69
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −42.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

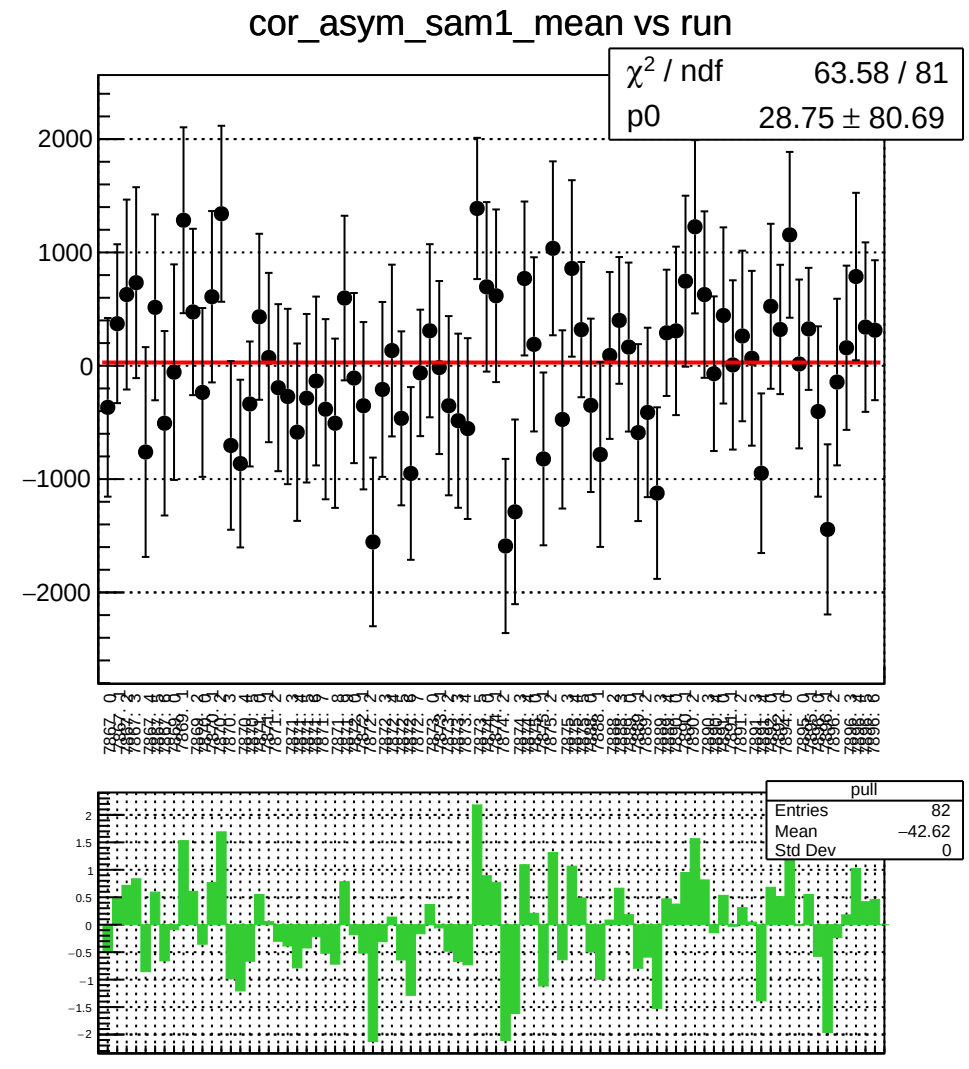

pull1D
Entries 82
Mean −0.0187
Std Dev 0.8803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

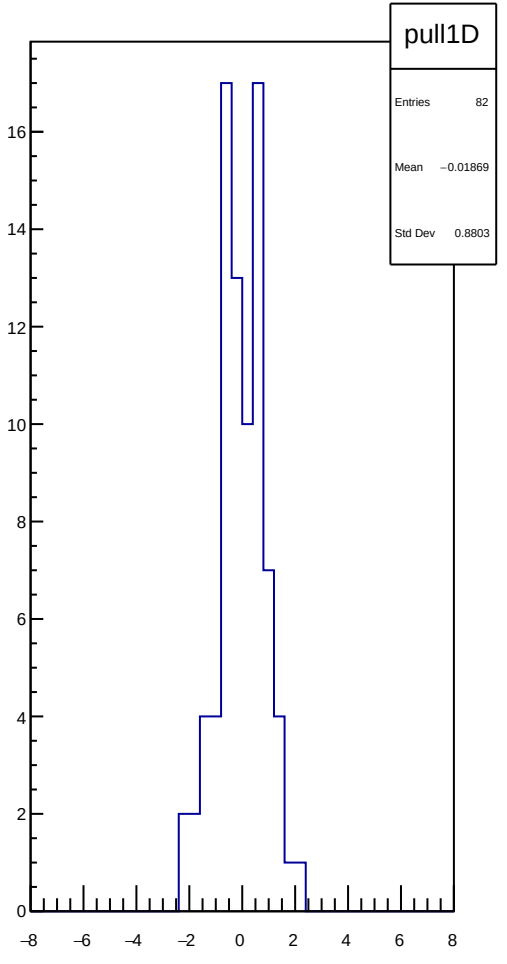

reg_asym_sam1_rms vs run
χ² / ndf 4294 / 81
p0 72.8 ± 0.05705
90
85
80
75
70
65

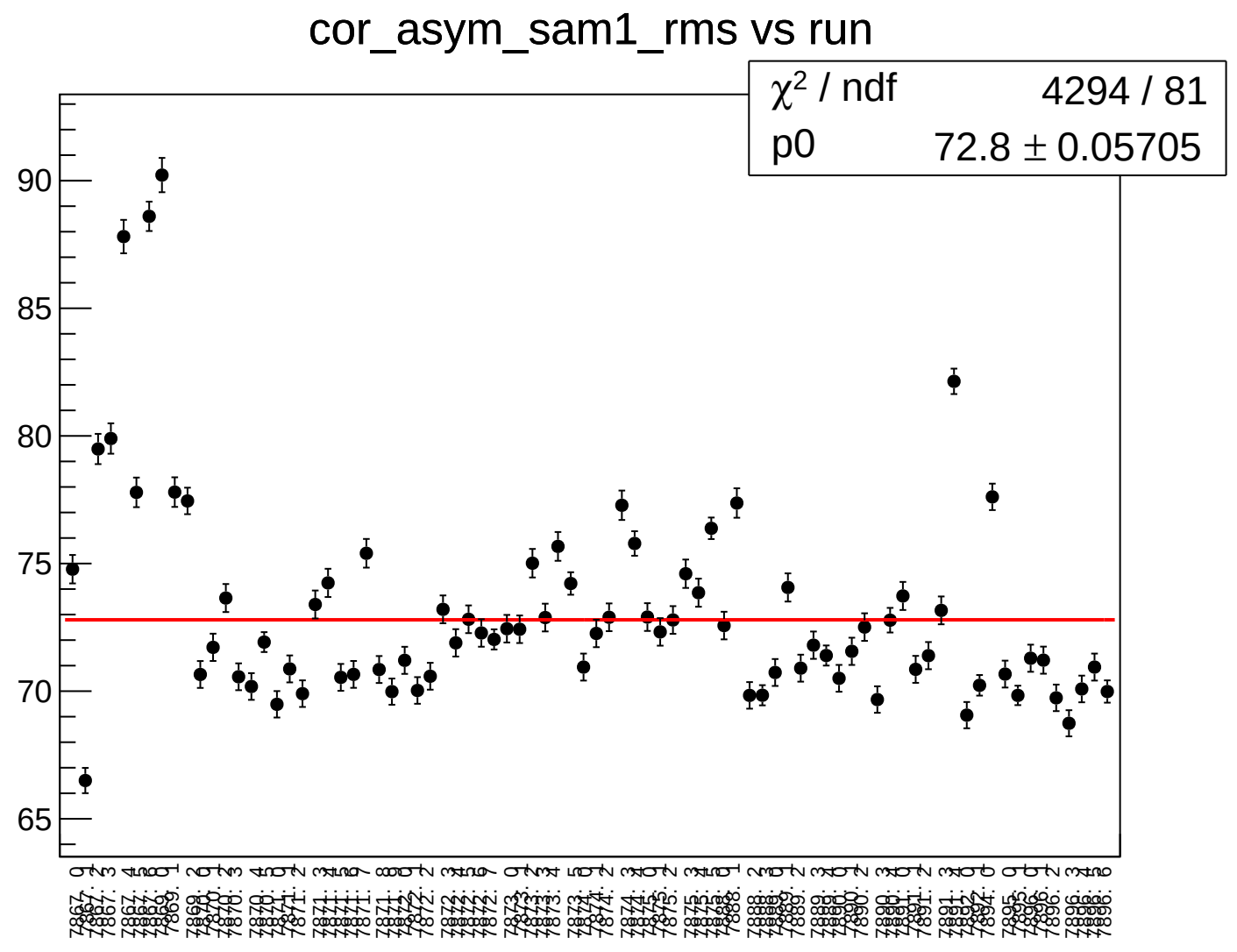

asym_sam1_reg_correction_mean vs run
χ² / ndf 61.7 / 81
p0 192.3 ± 413.6
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 15.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

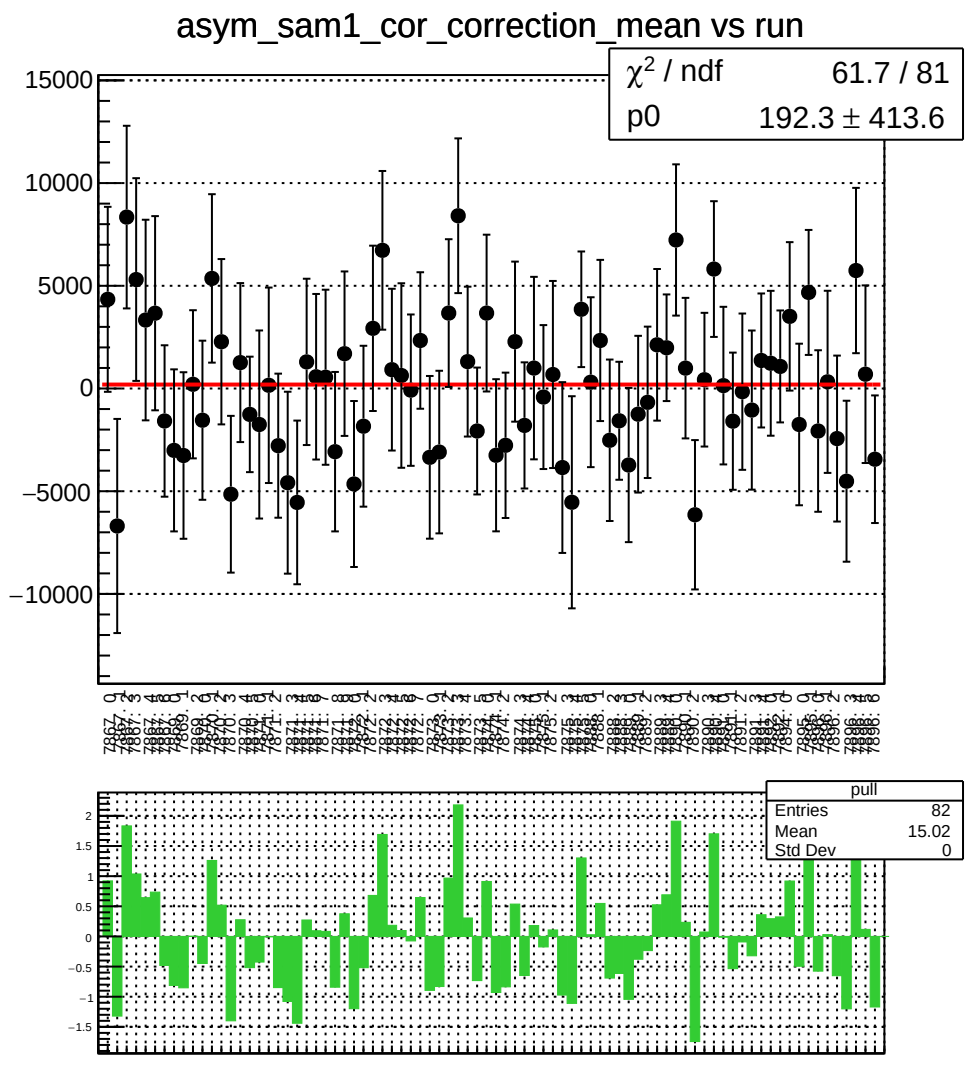

pull1D
Entries 82
Mean −0.00843
Std Dev 0.8674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

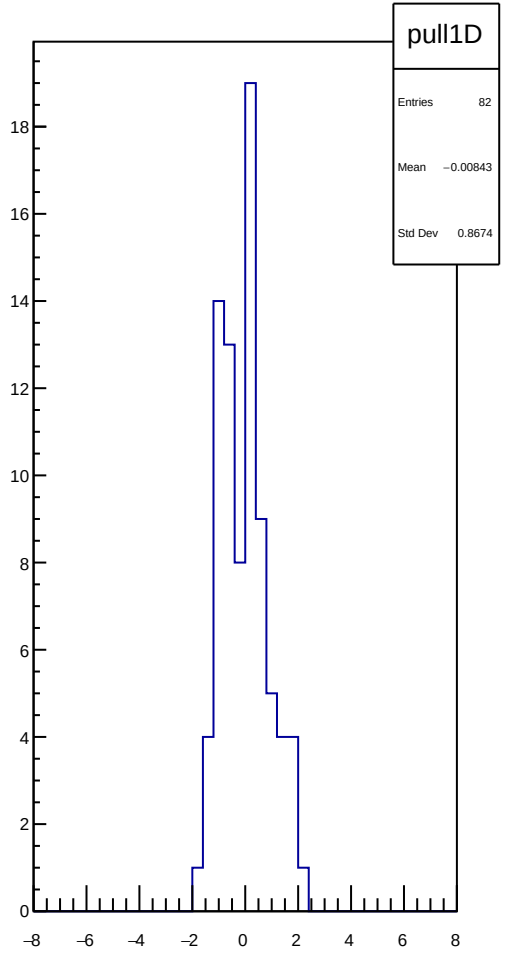

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.313e+04 / 81
p0 372.1 ± 0.2924
500
450
400
350
300

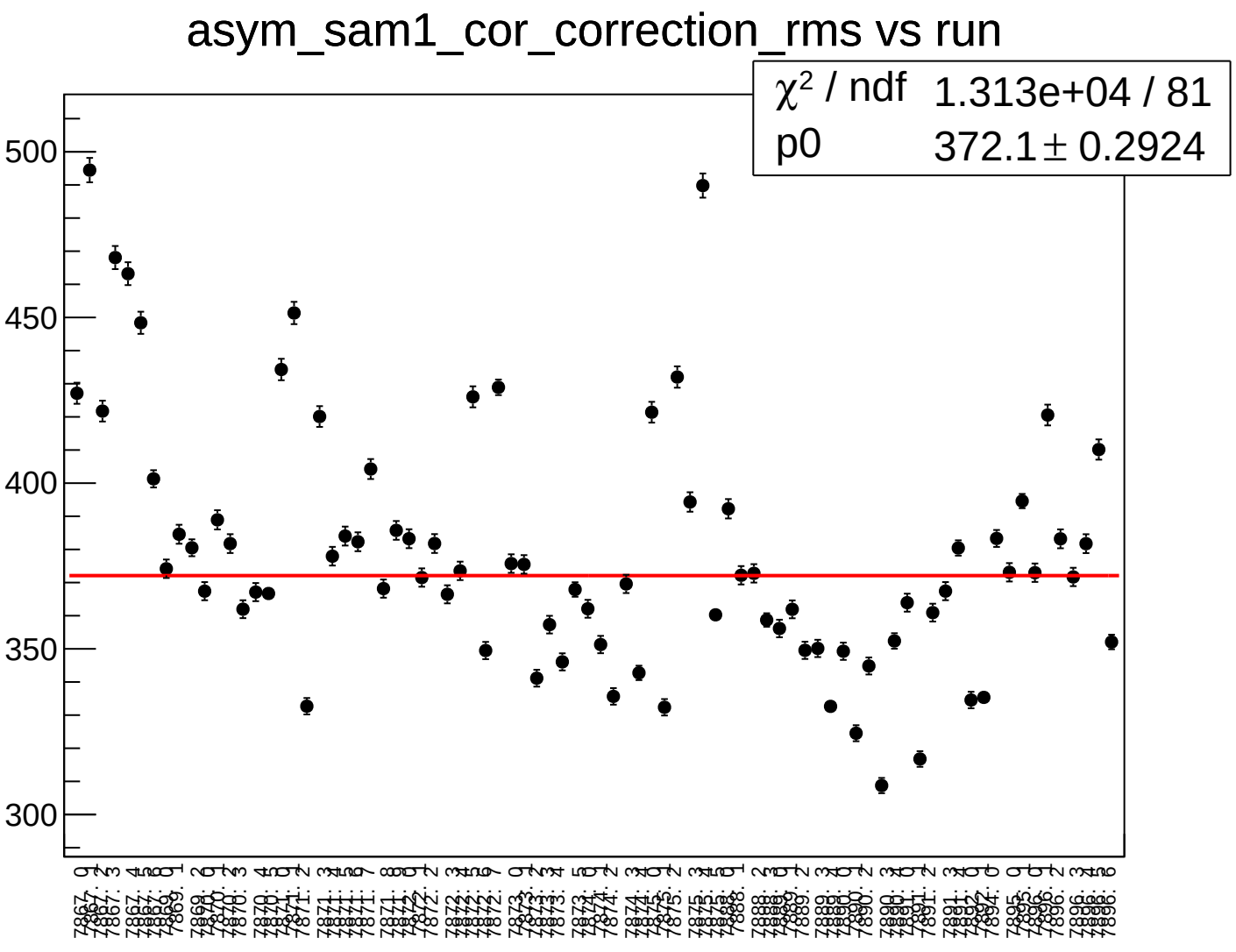

cor_asym_sam1_mean vs run
χ² / ndf 63.58 / 81
p0 28.75 ± 80.69
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −42.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

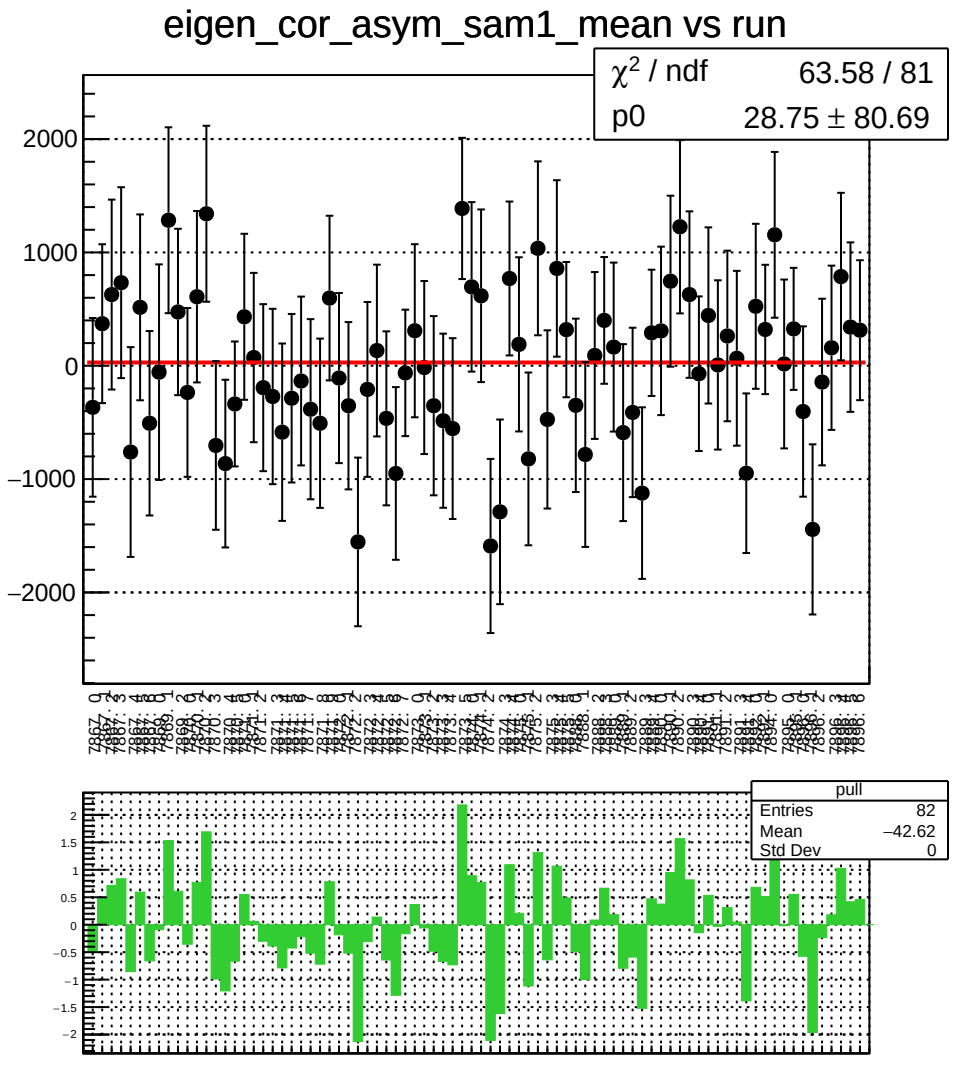

pull1D
Entries 82
Mean −0.01869
Std Dev 0.8803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

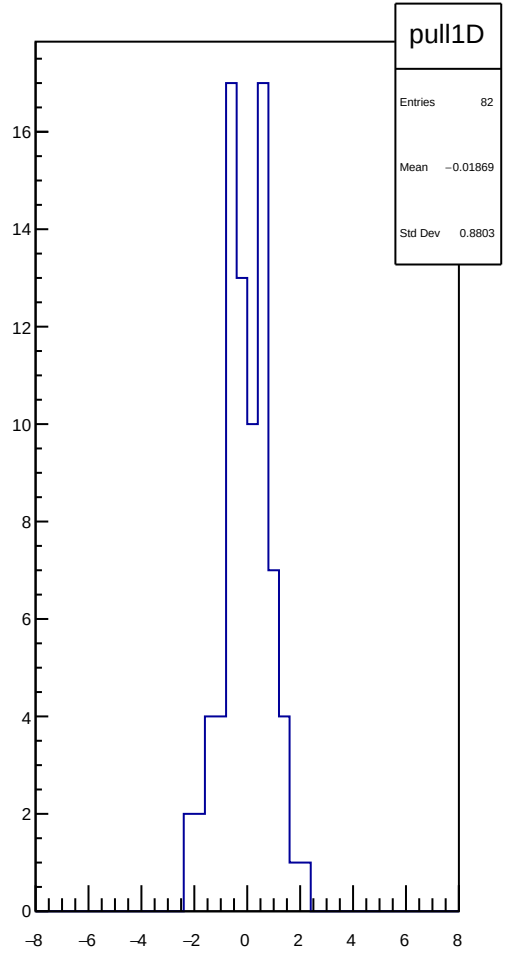

cor_asym_sam1_rms vs run
χ² / ndf 4294 / 81
p0 72.8 ± 0.05705
90
85
80
75
70
65

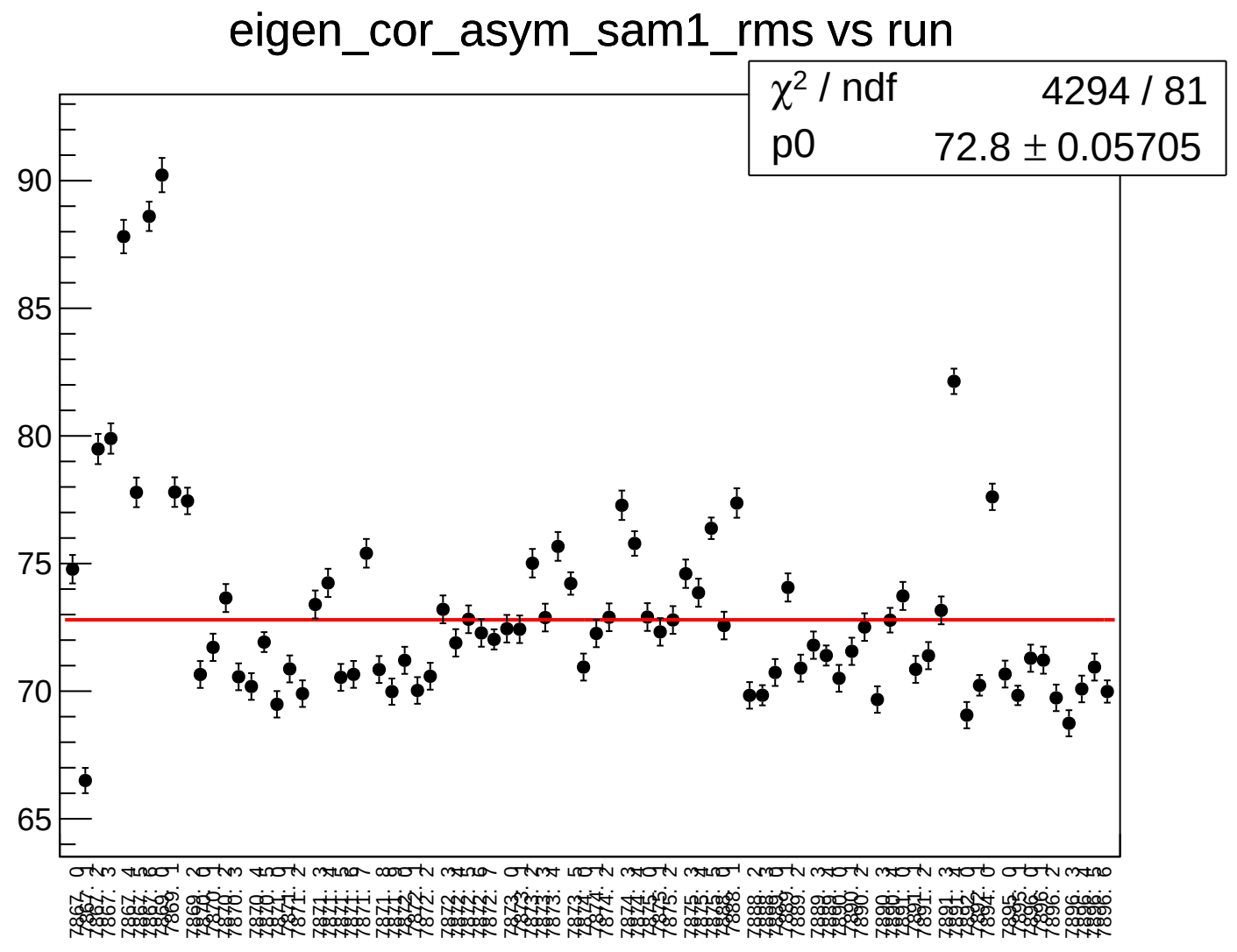

asym_sam1_cor_correction_mean vs run
χ² / ndf 61.7 / 81
p0 192.3 ± 413.6
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 15.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

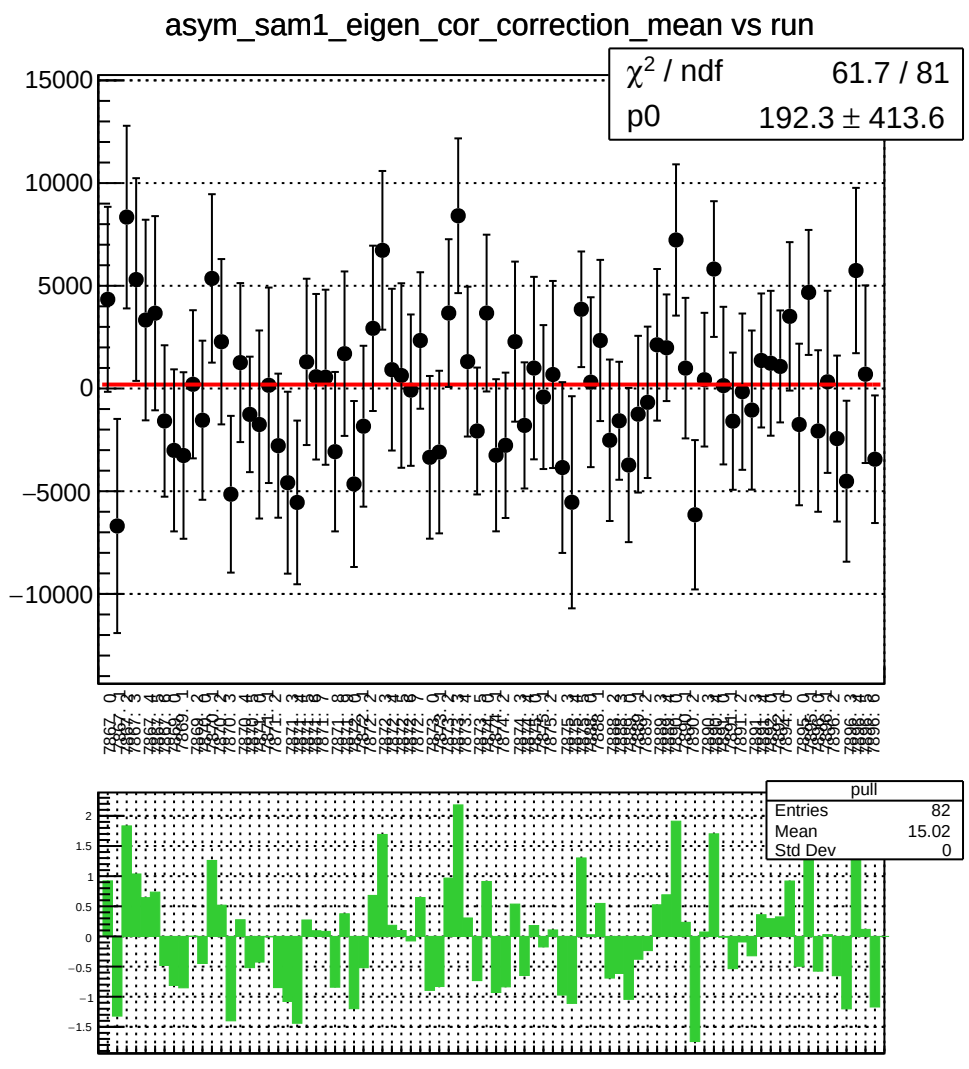

pull1D
Entries 82
Mean −0.00843
Std Dev 0.8674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

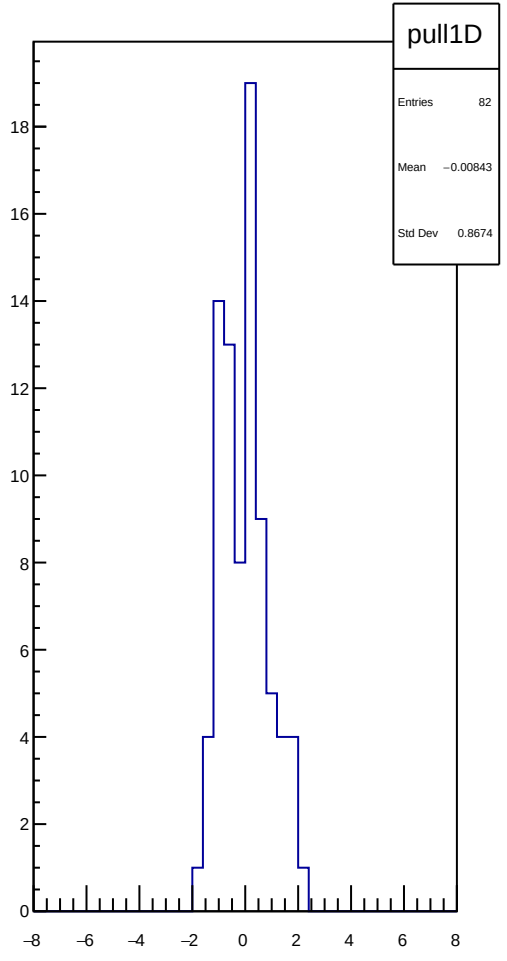

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.313e+04 / 81
p0 372.1 ± 0.2924
500
450
400
350
300

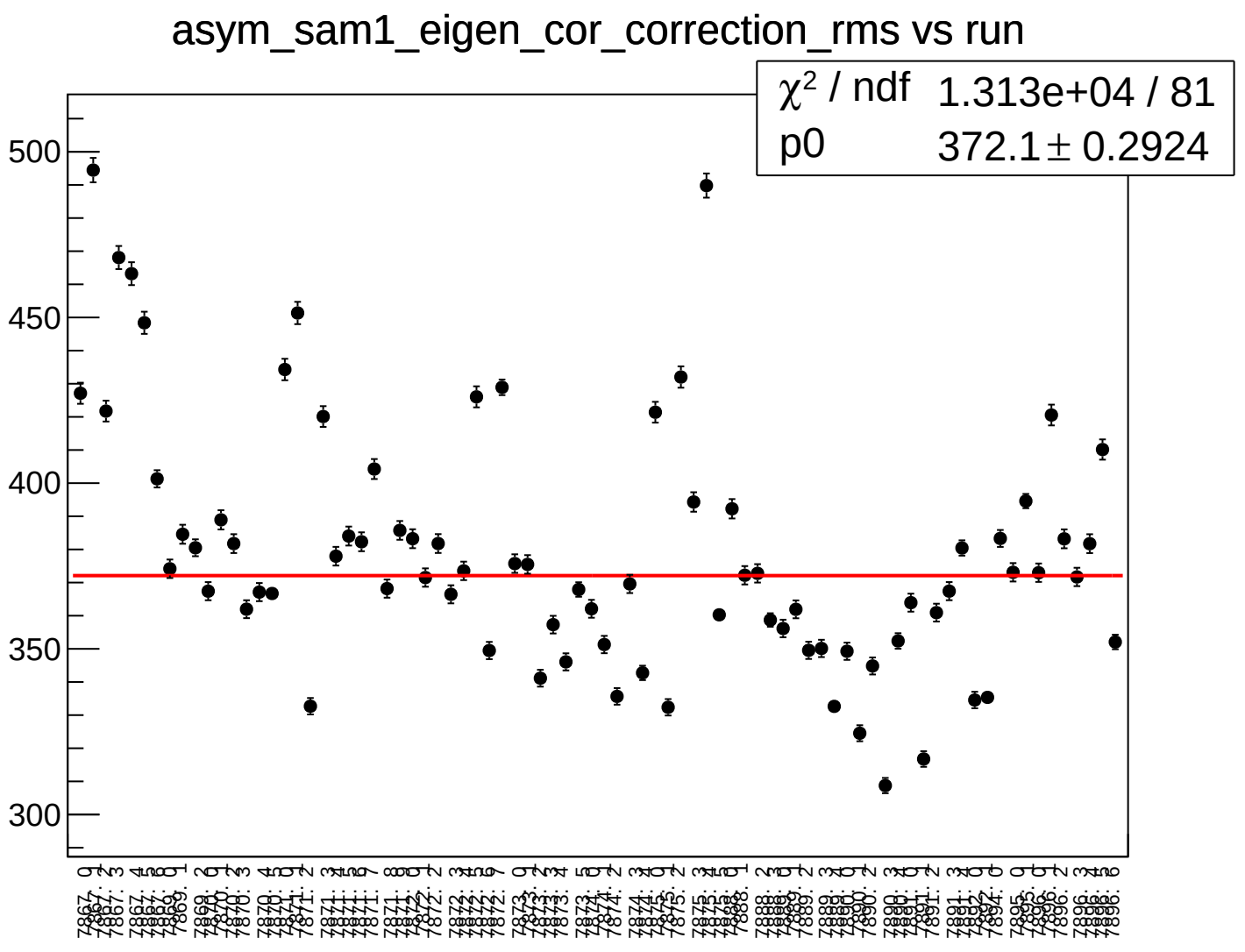

eigen_cor_asym_sam1_mean vs run
χ² / ndf 63.58 / 81
p0 28.75 ± 80.69
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −42.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

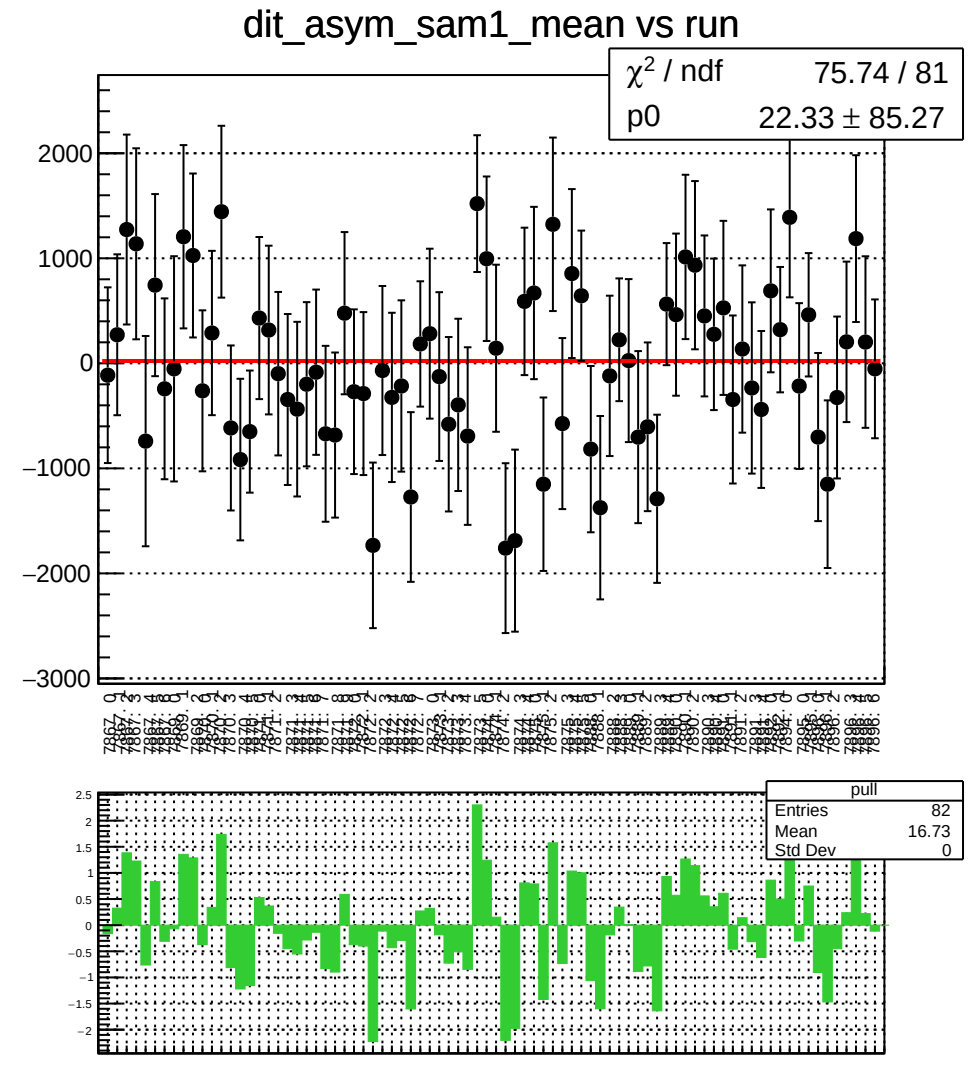

pull1D
Entries 82
Mean −0.01869
Std Dev 0.8803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

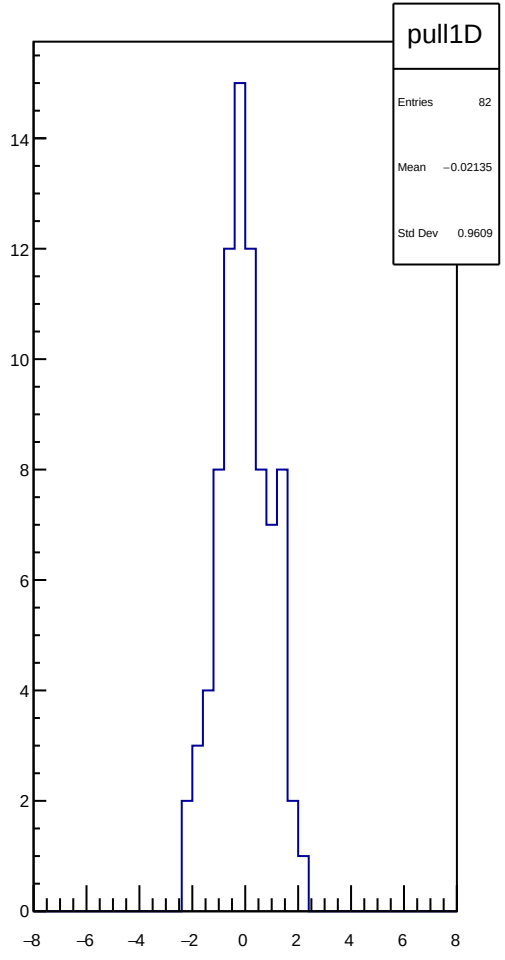

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 4294 / 81
p0 72.8 ± 0.05705
90
85
80
75
70
65

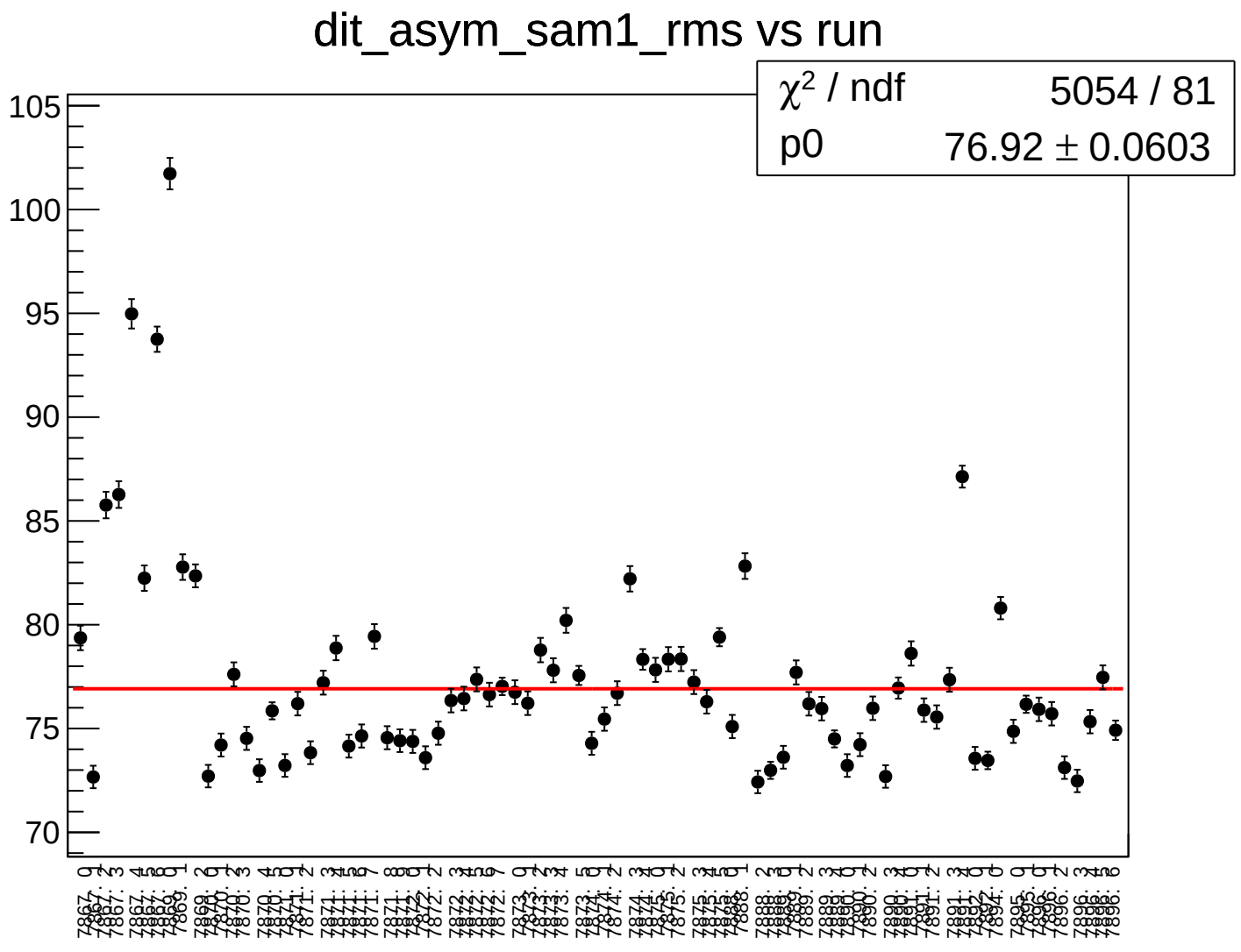

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 61.7 / 81
p0 192.3 ± 413.6
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 15.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

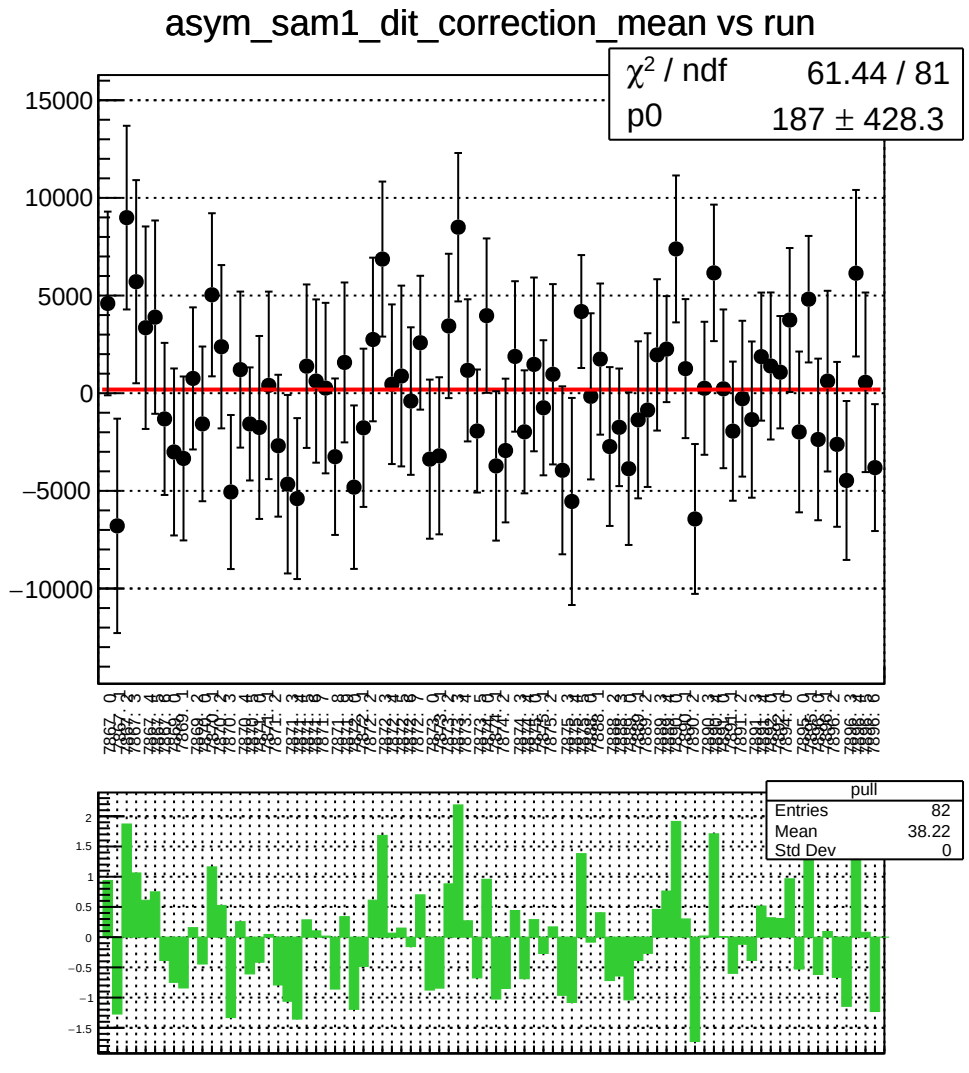

pull1D
Entries 82
Mean −0.00843
Std Dev 0.8674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

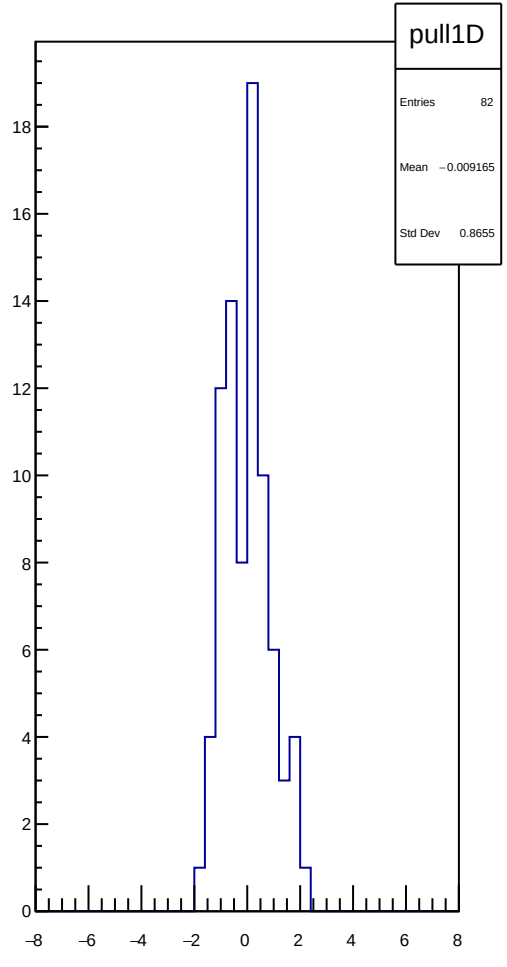

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.313e+04 / 81
p0 372.1 ± 0.2924
500
450
400
350
300

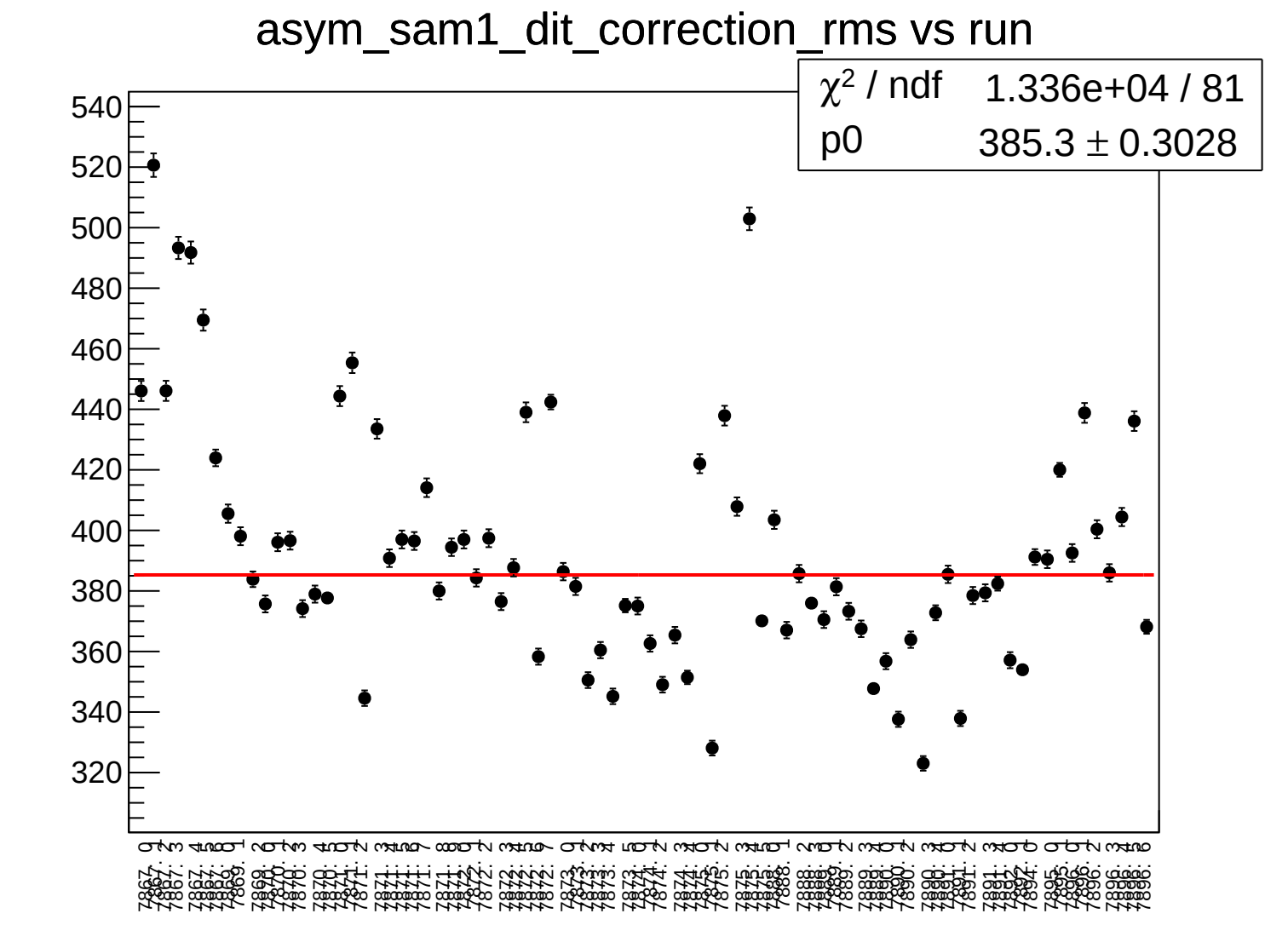

dit_asym_sam1_mean vs run
χ² / ndf 75.74 / 81
p0 22.33 ± 85.27
pull
Entries 82
Mean 16.73
Std Dev 0

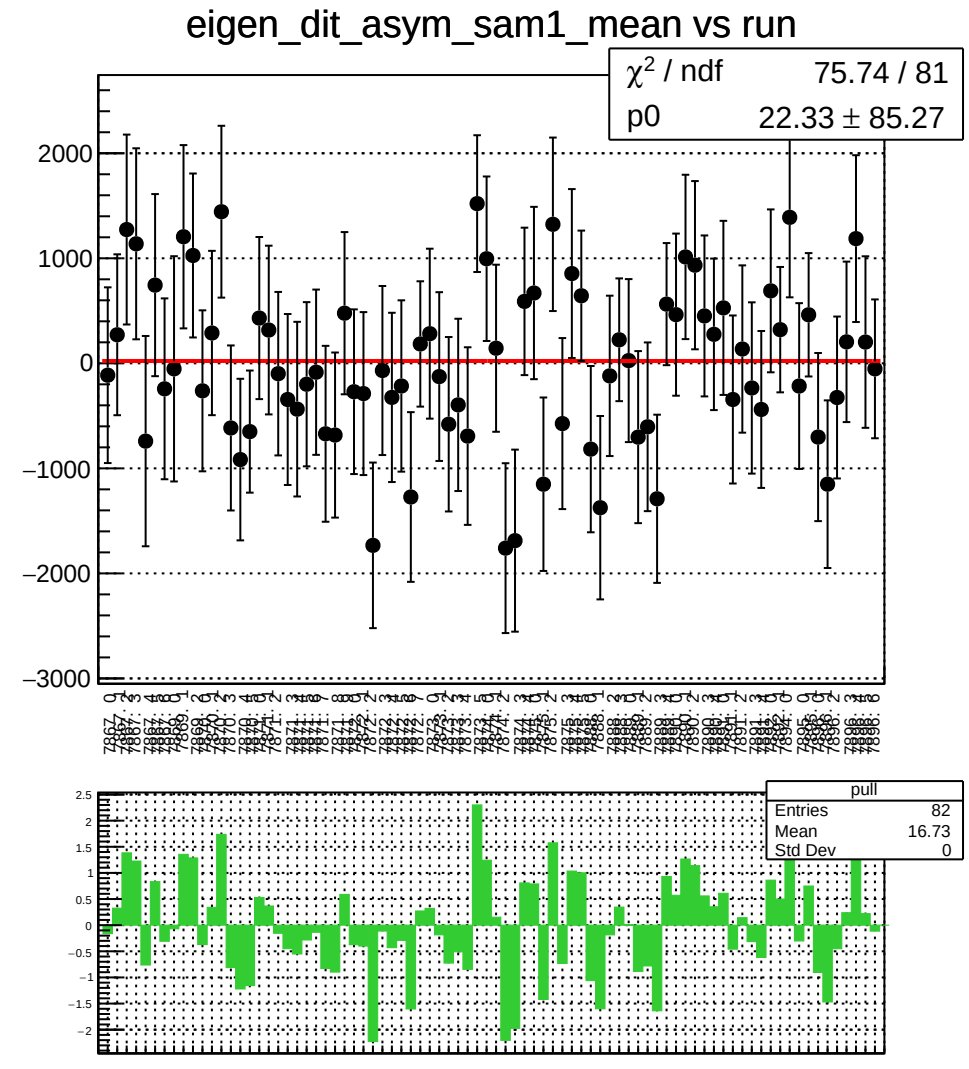

pull1D
Entries 82
Mean −0.02135
Std Dev 0.9609

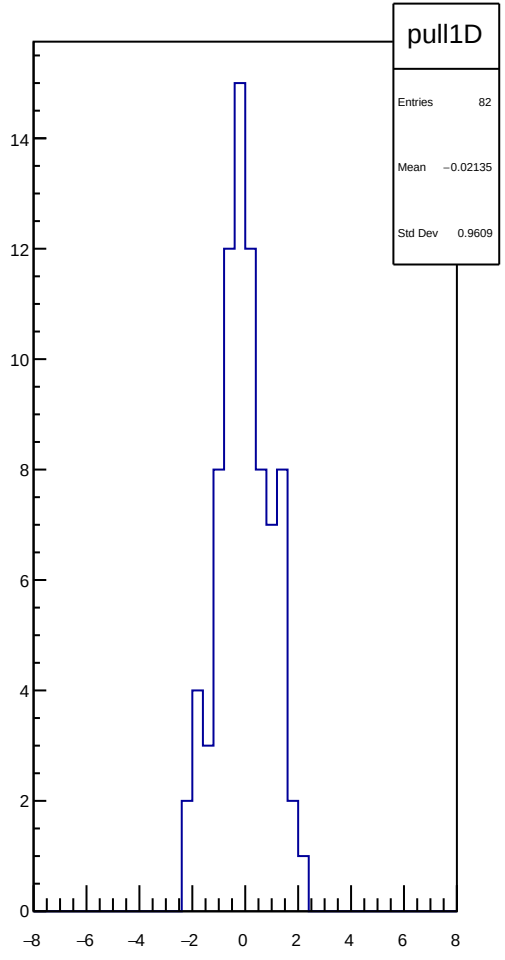

dit_asym_sam1_rms vs run
χ² / ndf 5054 / 81
p0 76.92 ± 0.0603
105
100
95
90
85
80
75
70

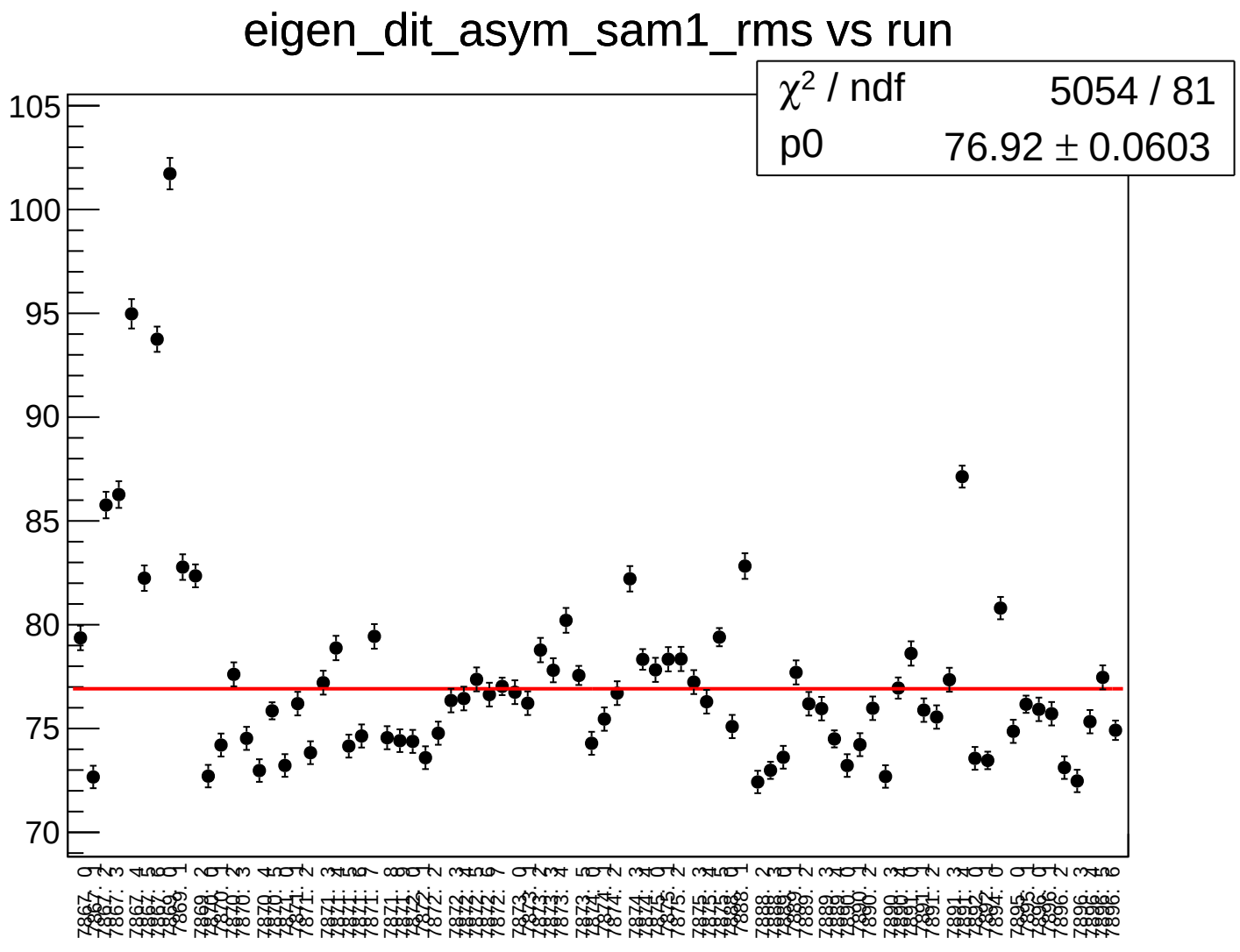

asym_sam1_dit_correction_mean vs run
χ² / ndf 61.44 / 81
p0 187 ± 428.3
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 38.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

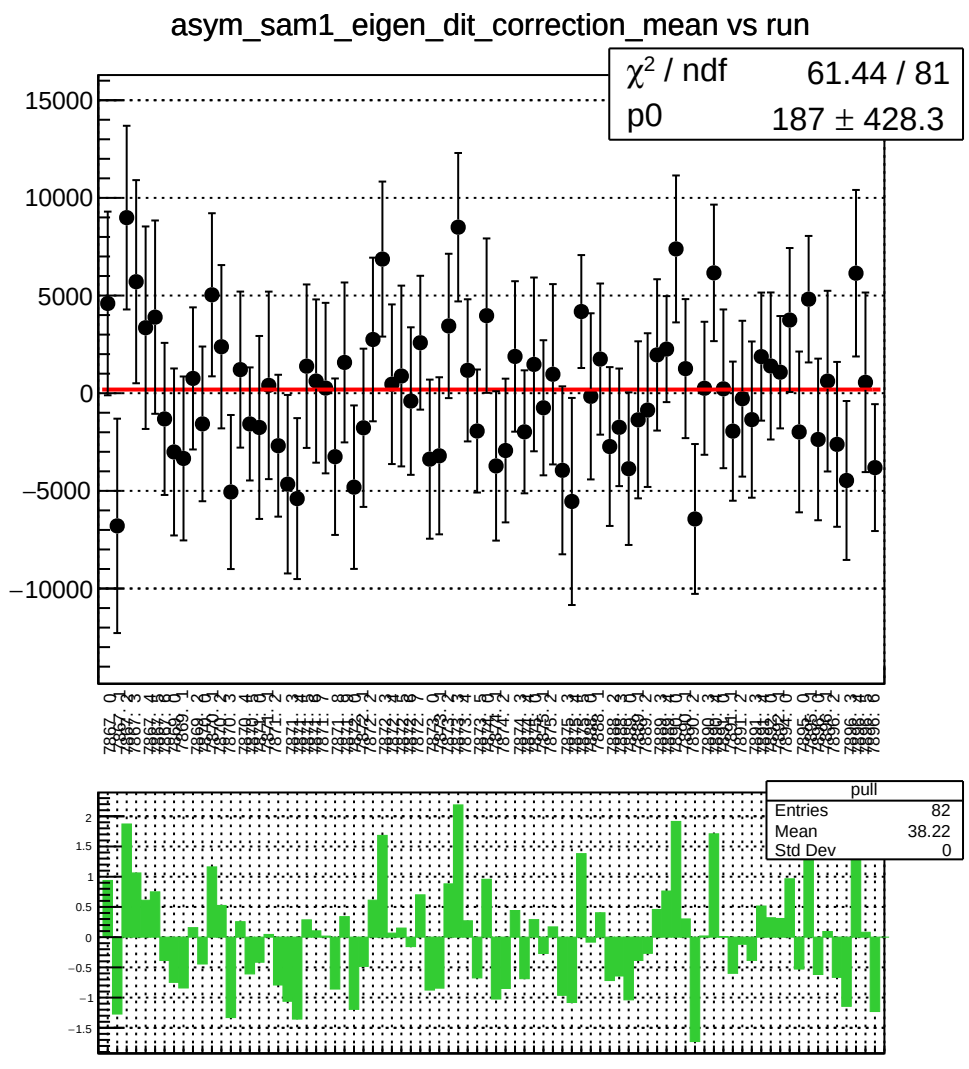

pull1D
Entries 82
Mean −0.009165
Std Dev 0.8655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

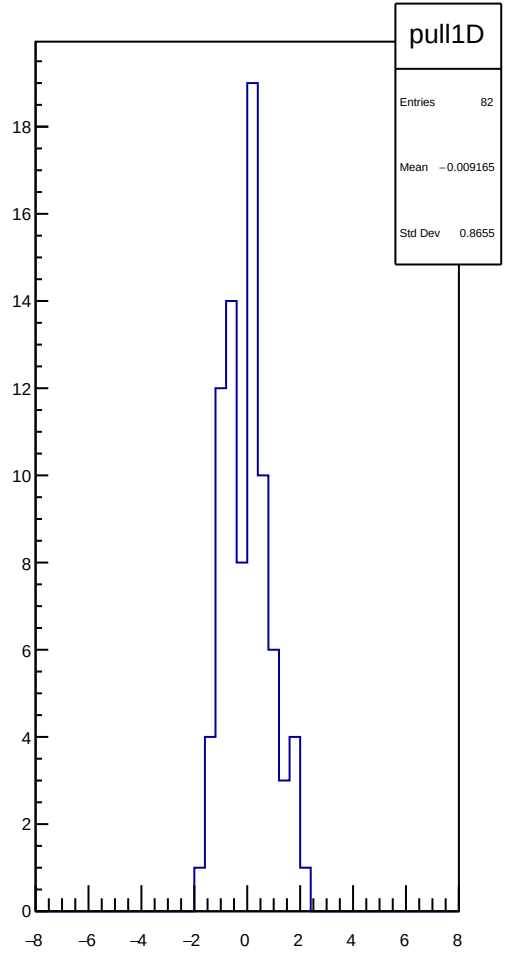

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.336e+04 / 81
p0 385.3 ± 0.3028
540
520
500
480
460
440
420
400
380
360
340
320

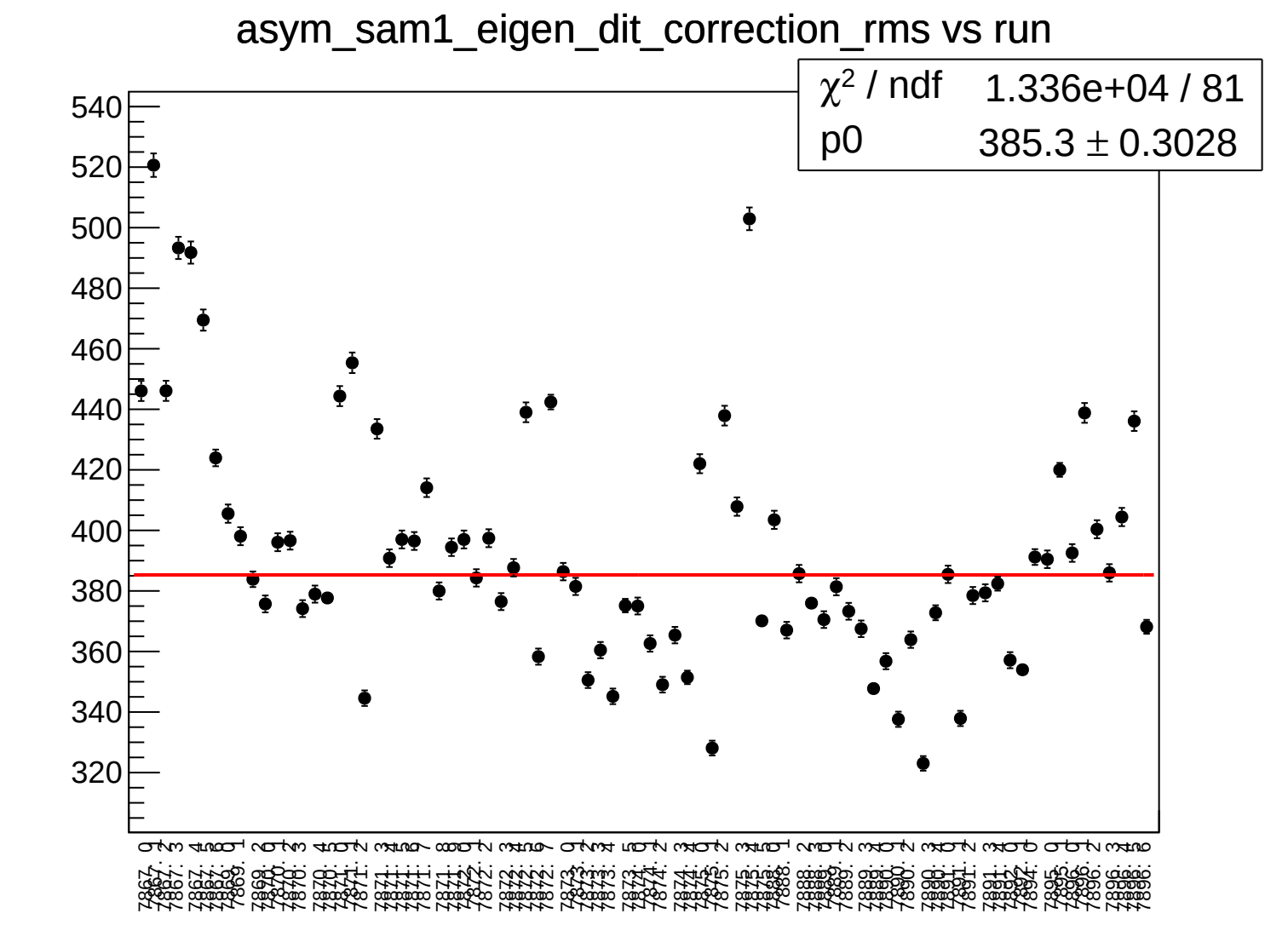

eigen_dit_asym_sam1_mean vs run
χ² / ndf 75.74 / 81
p0 22.33 ± 85.27
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean 16.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

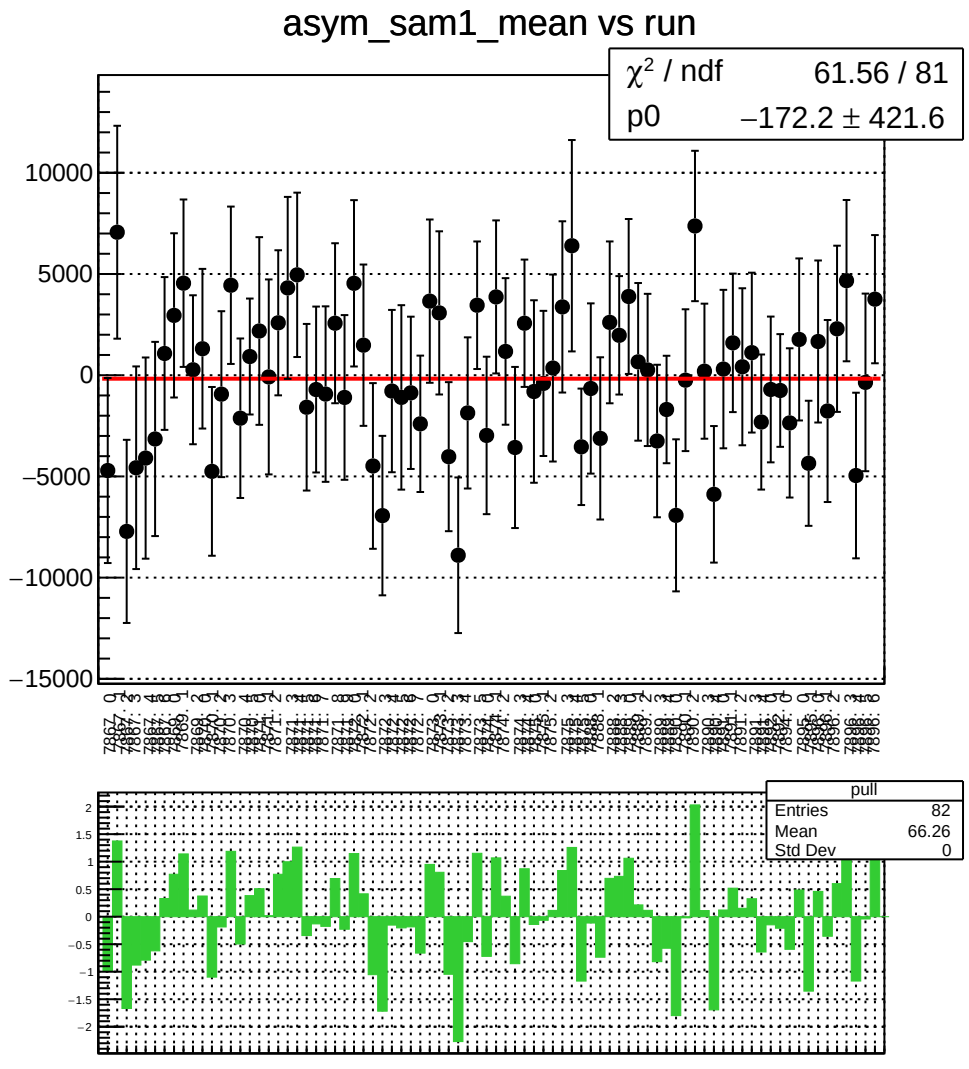

pull1D
Entries 82
Mean −0.02135
Std Dev 0.9609
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

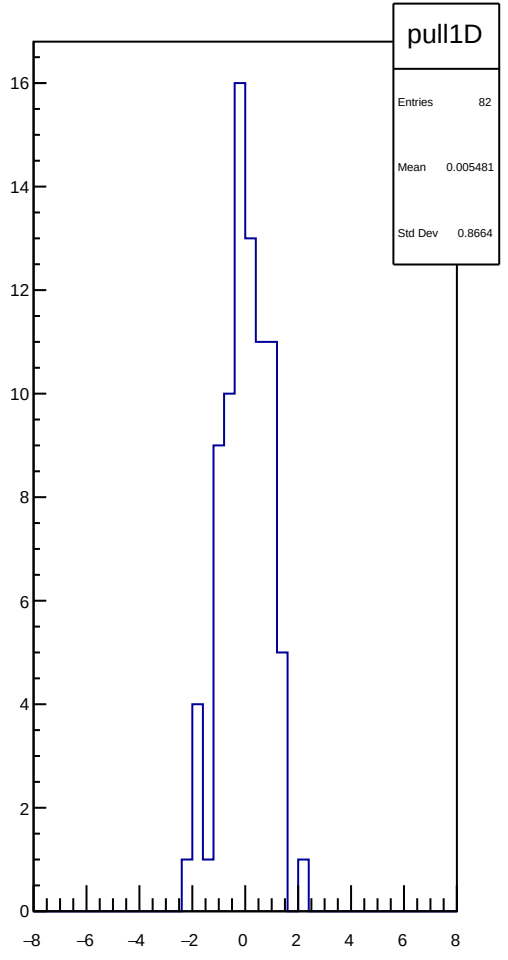

eigen_dit_asym_sam1_rms vs run
χ² / ndf 5054 / 81
p0 76.92 ± 0.0603
105
100
95
90
85
80
75
70


asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 61.44 / 81
p0 187 ± 428.3
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 38.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 82
Mean −0.009165
Std Dev 0.8655
18
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 1.336e+04 / 81
p0 385.3 ± 0.3028
540
520
500
480
460
440
420
400
380
360
340
320


asym_sam1_mean vs run
χ² / ndf 61.56 / 81
p0 −172.2 ± 421.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 66.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean 0.005481
Std Dev 0.8664
16
14
12
10
8
6
4
2
0
−8
−6
−4
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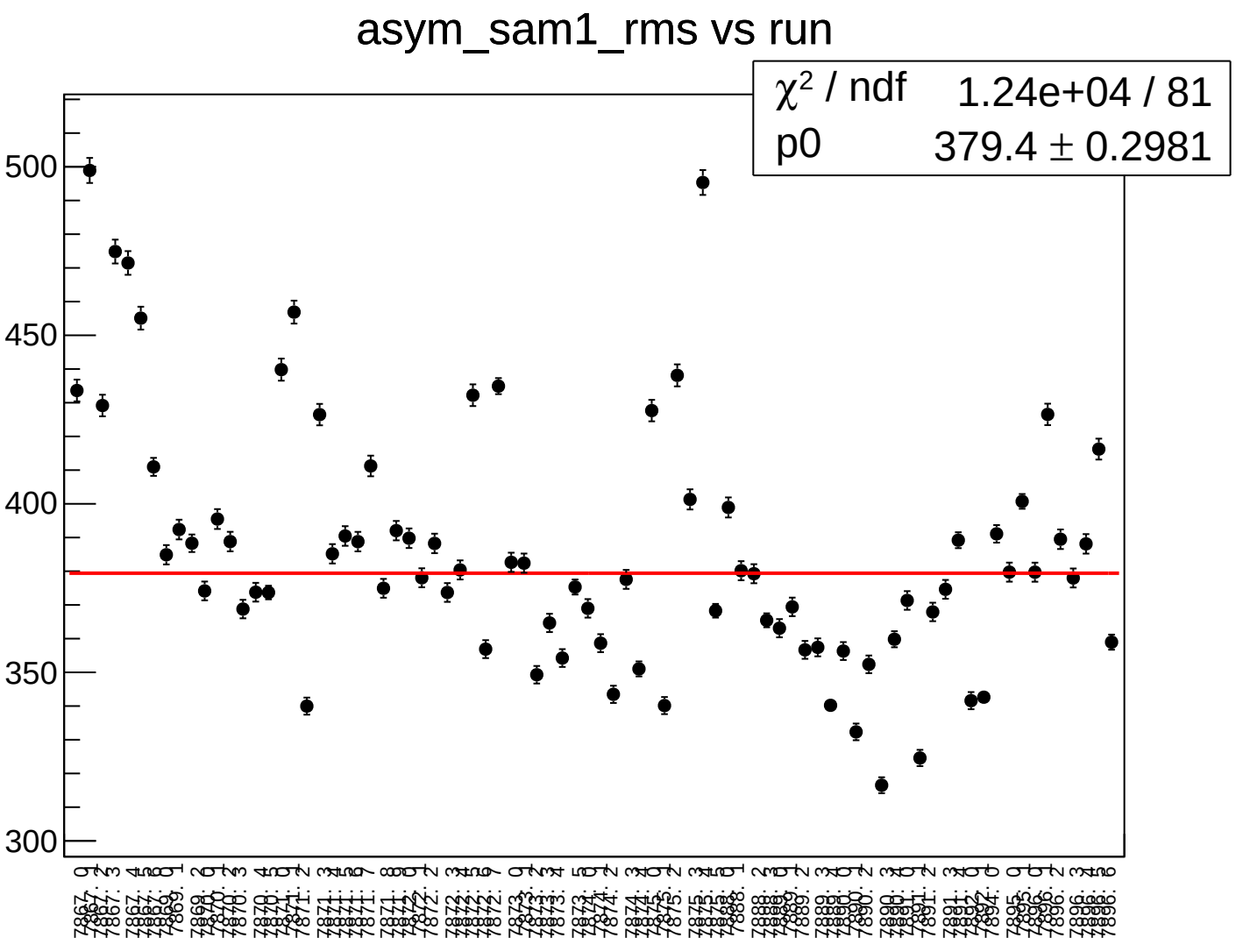
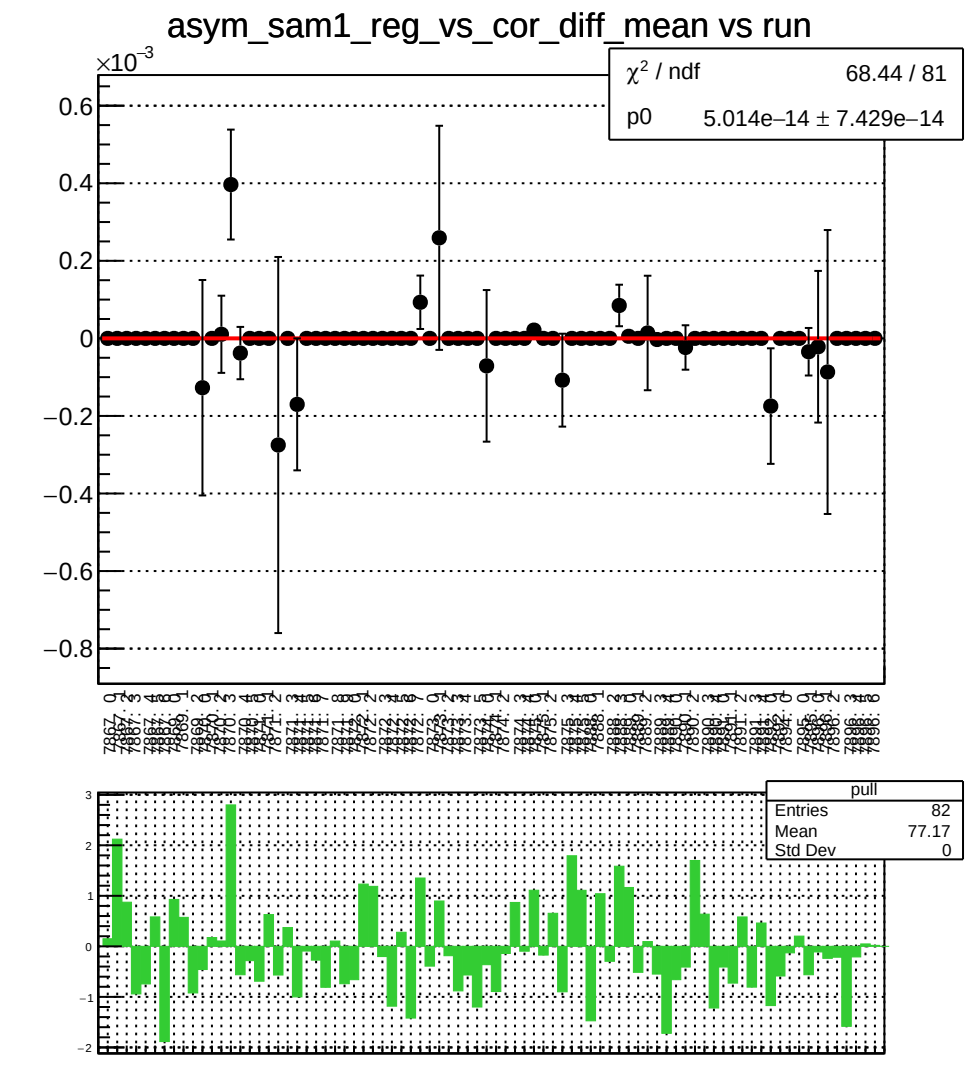
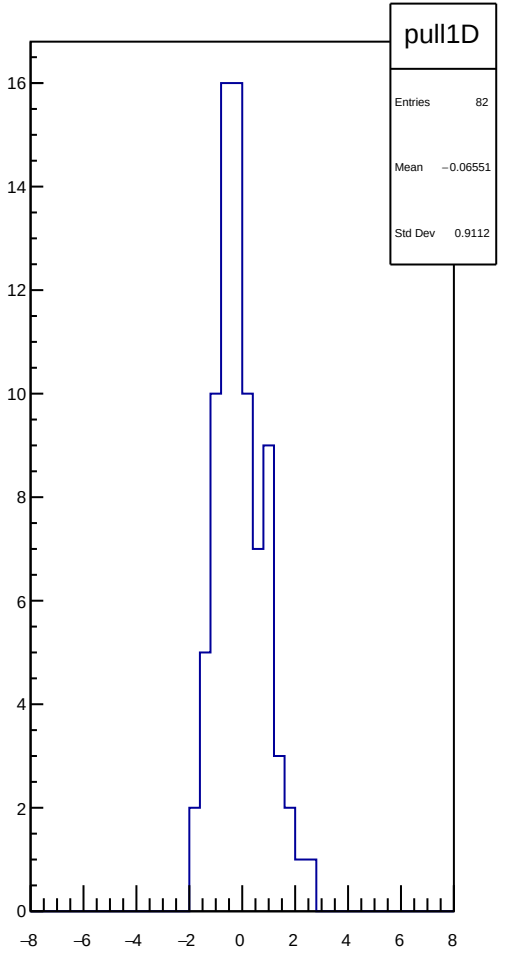
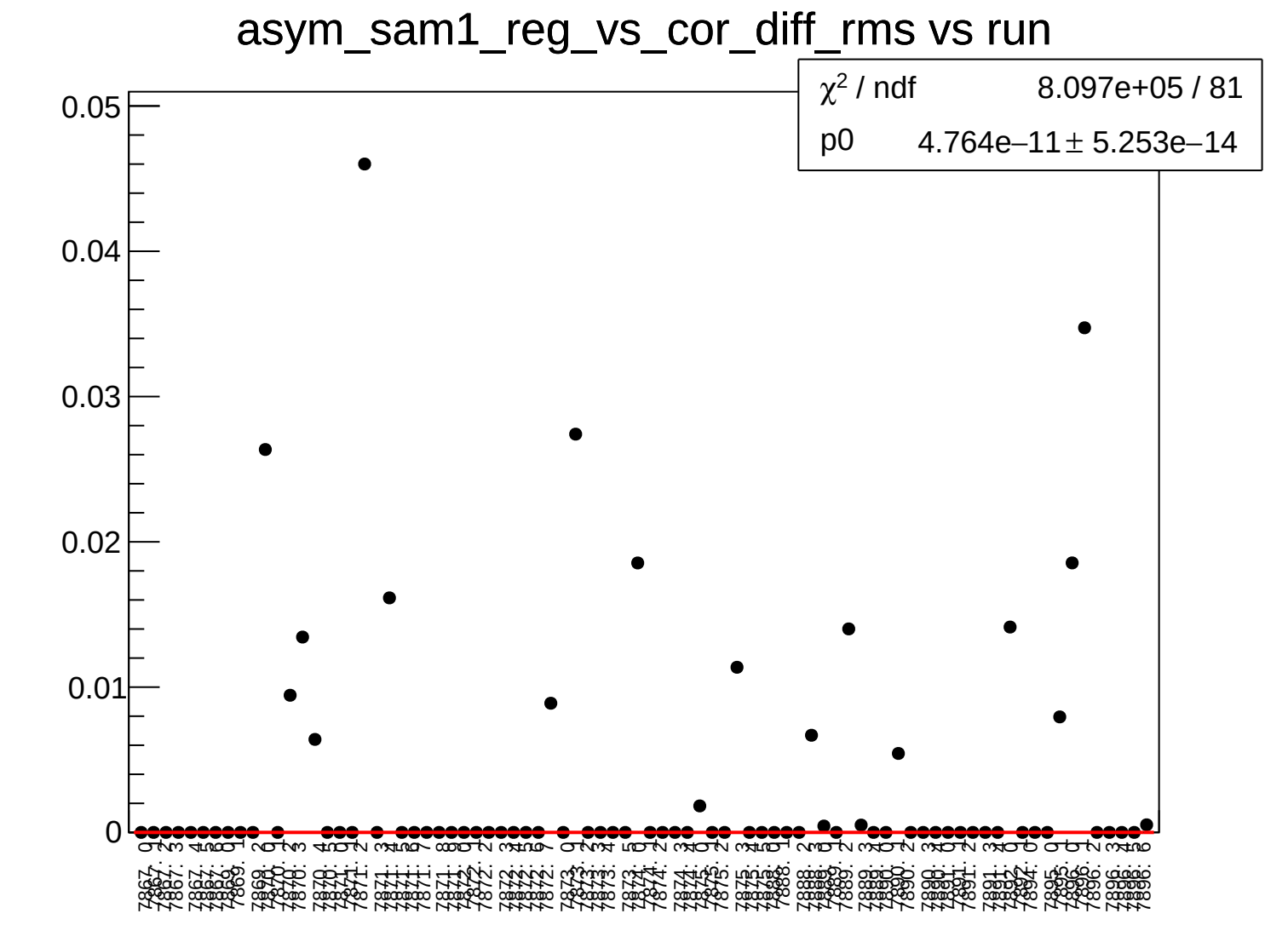
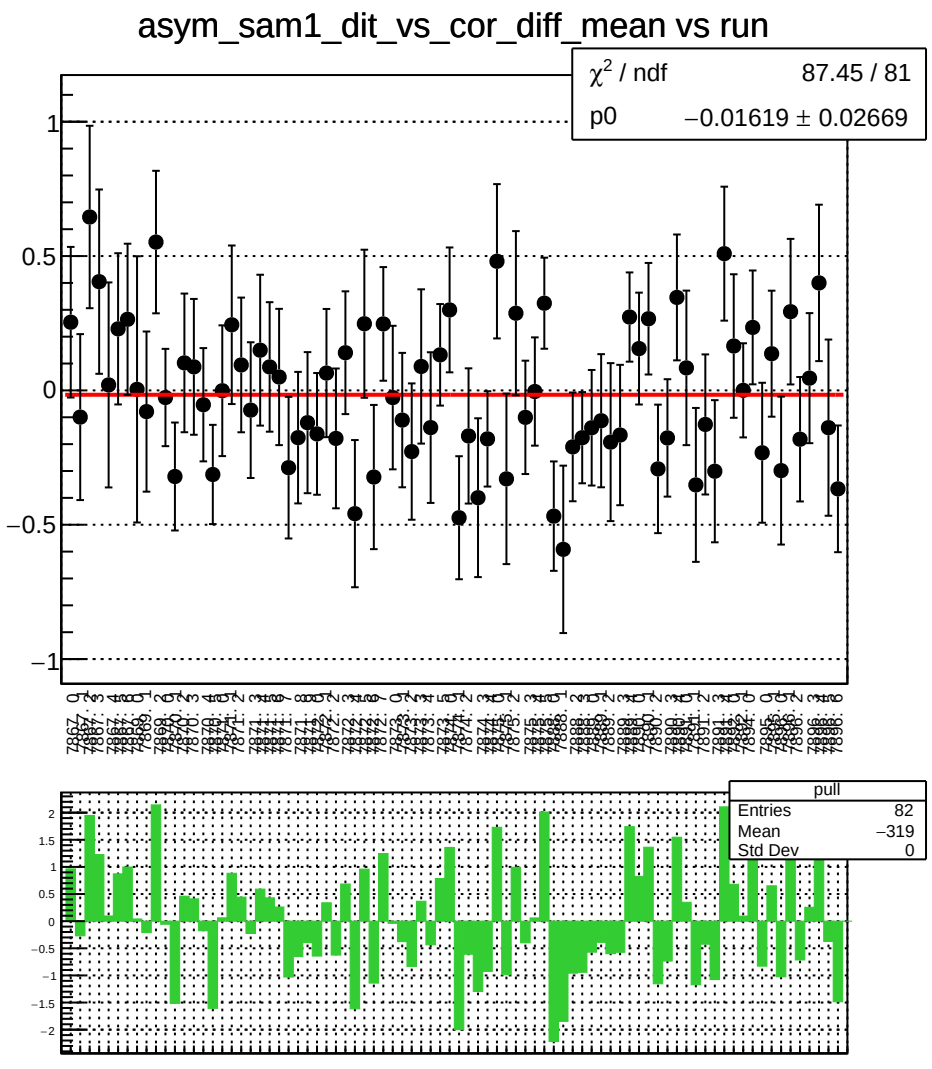
0
2
4
6
8

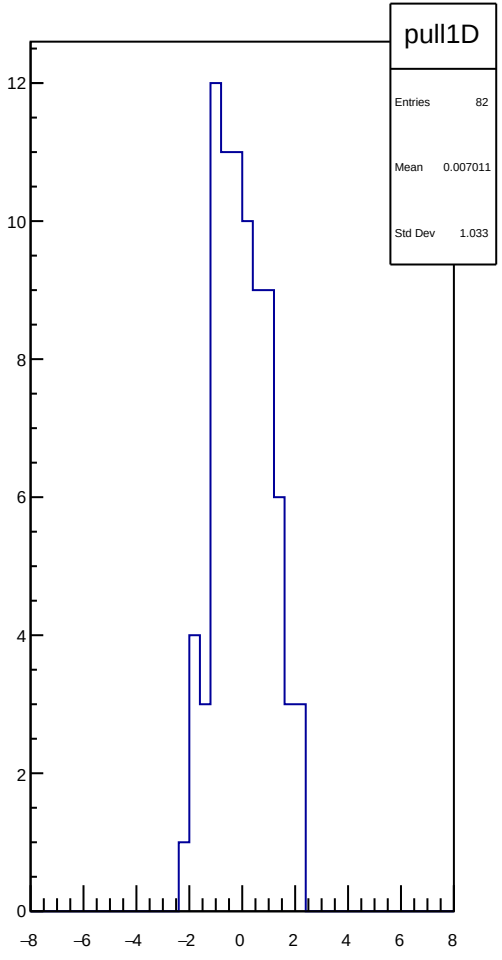

asym_sam1_rms vs run
χ² / ndf 1.24e+04 / 81
p0 379.4 ± 0.2981
500
450
400
350
300

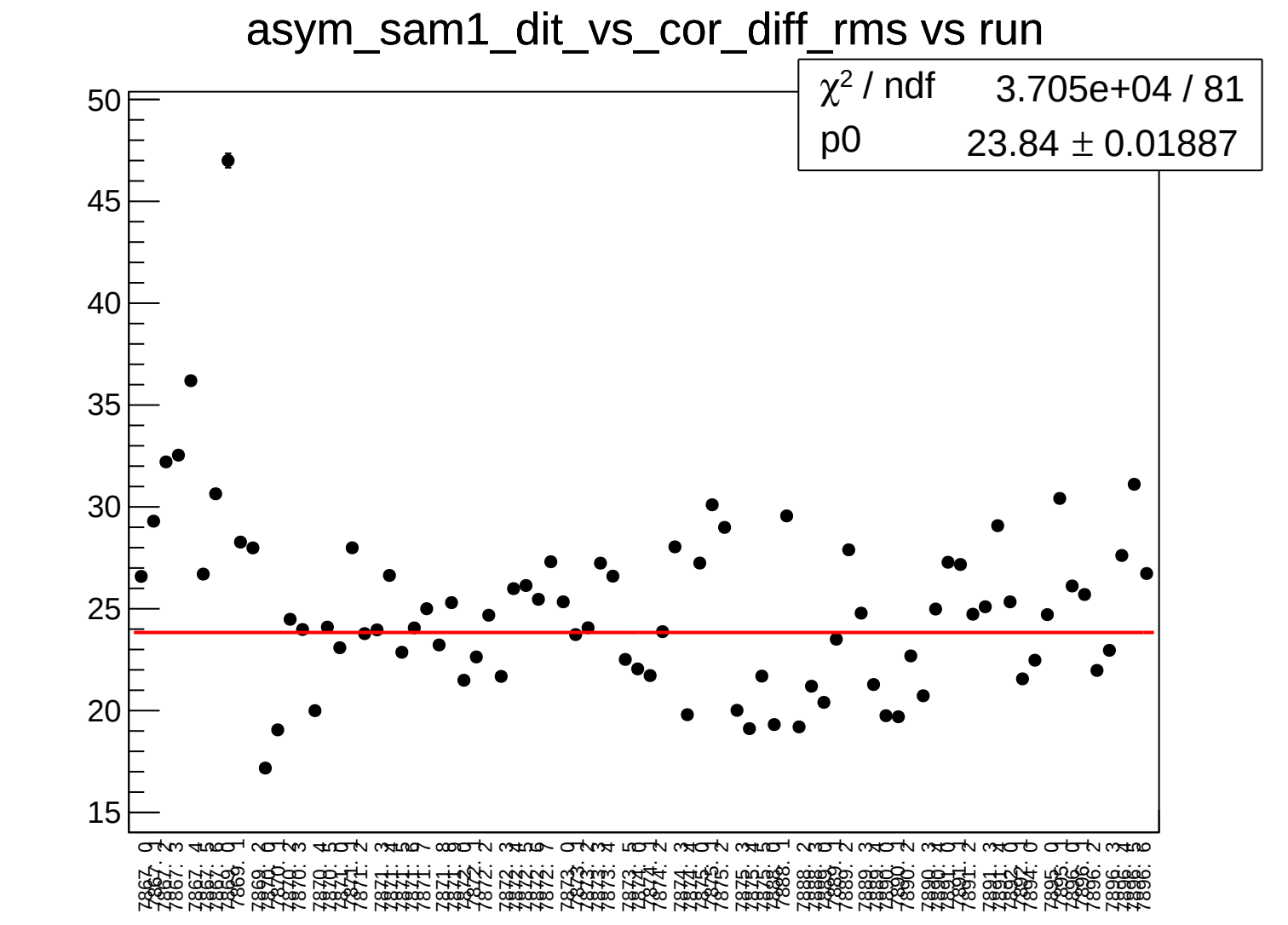

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 68.44 / 81
p0 5.014e−14 ± 7.429e−14
pull
Entries 82
Mean 77.17
Std Dev 0

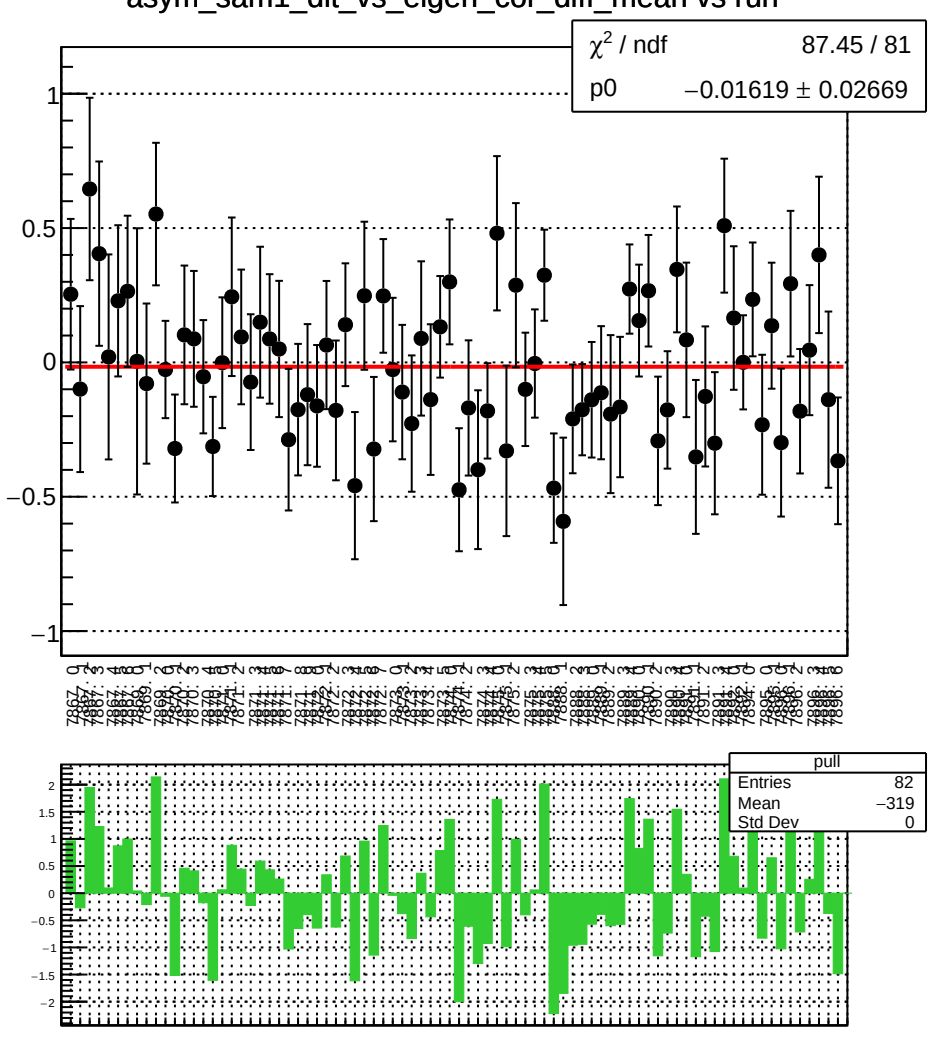

pull1D
Entries 82
Mean −0.06551
Std Dev 0.9112

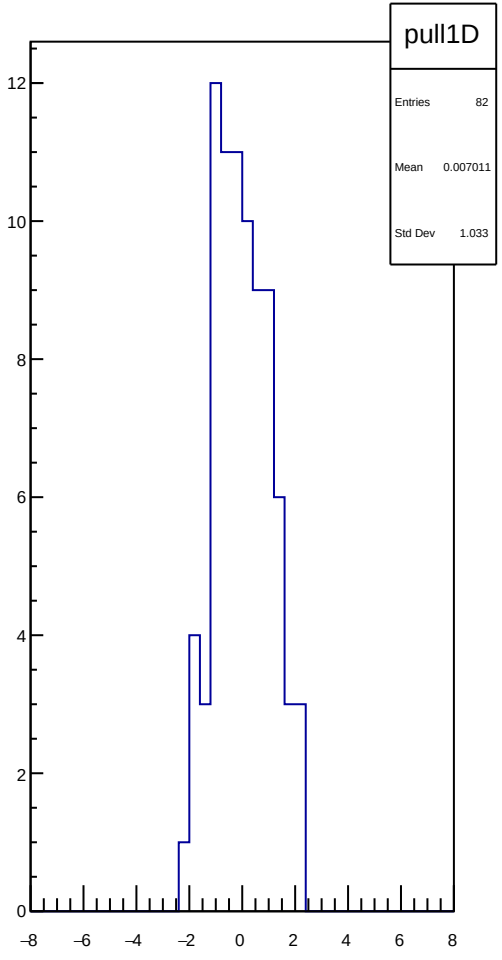

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.097e+05 / 81
p0 4.764e−11 ± 5.253e−14
0.05
0.04
0.03
0.02
0.01
0

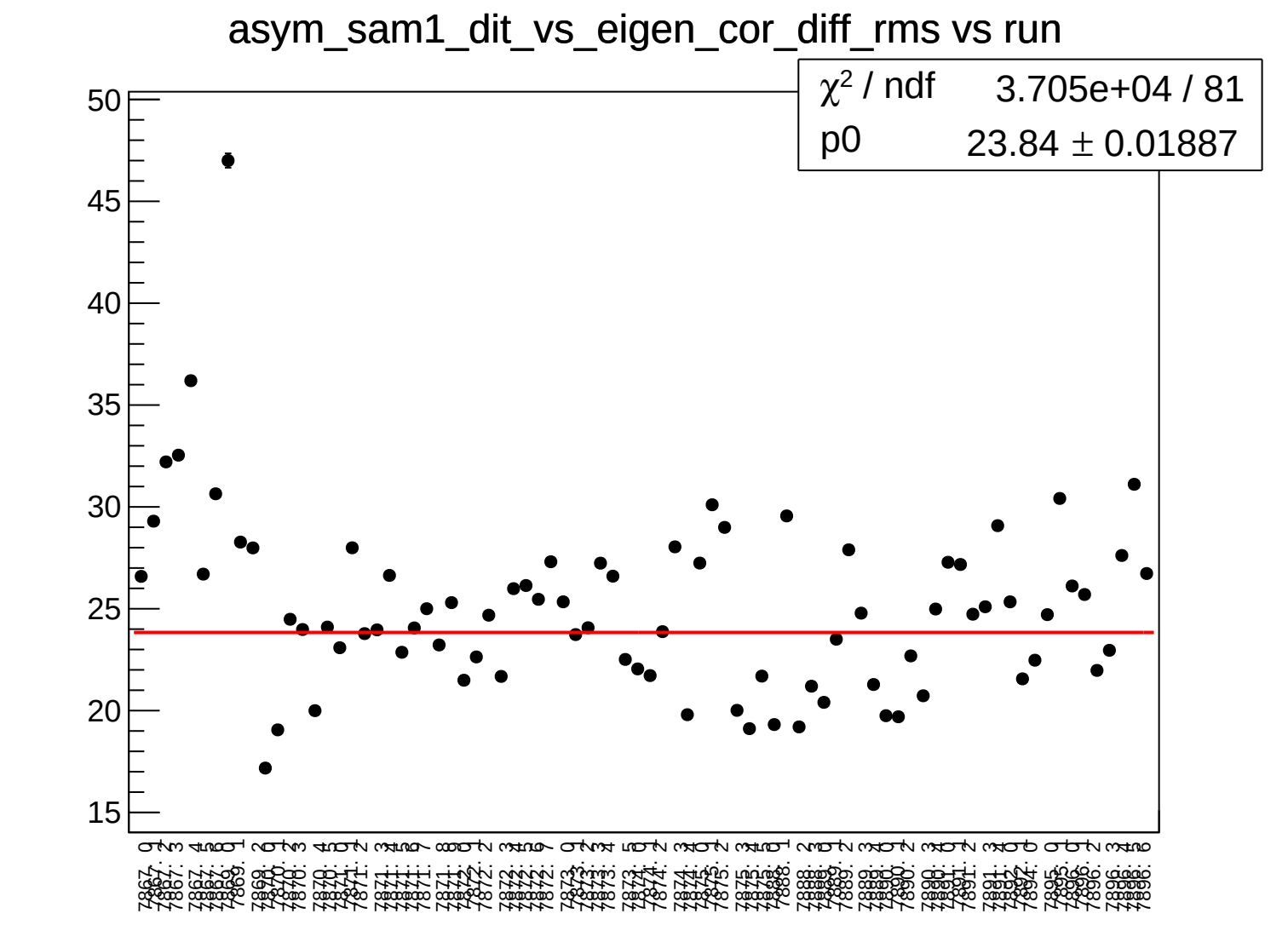

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 87.45 / 81
p0 −0.01619 ± 0.02669
pull
Entries 82
Mean −319
Std Dev 0

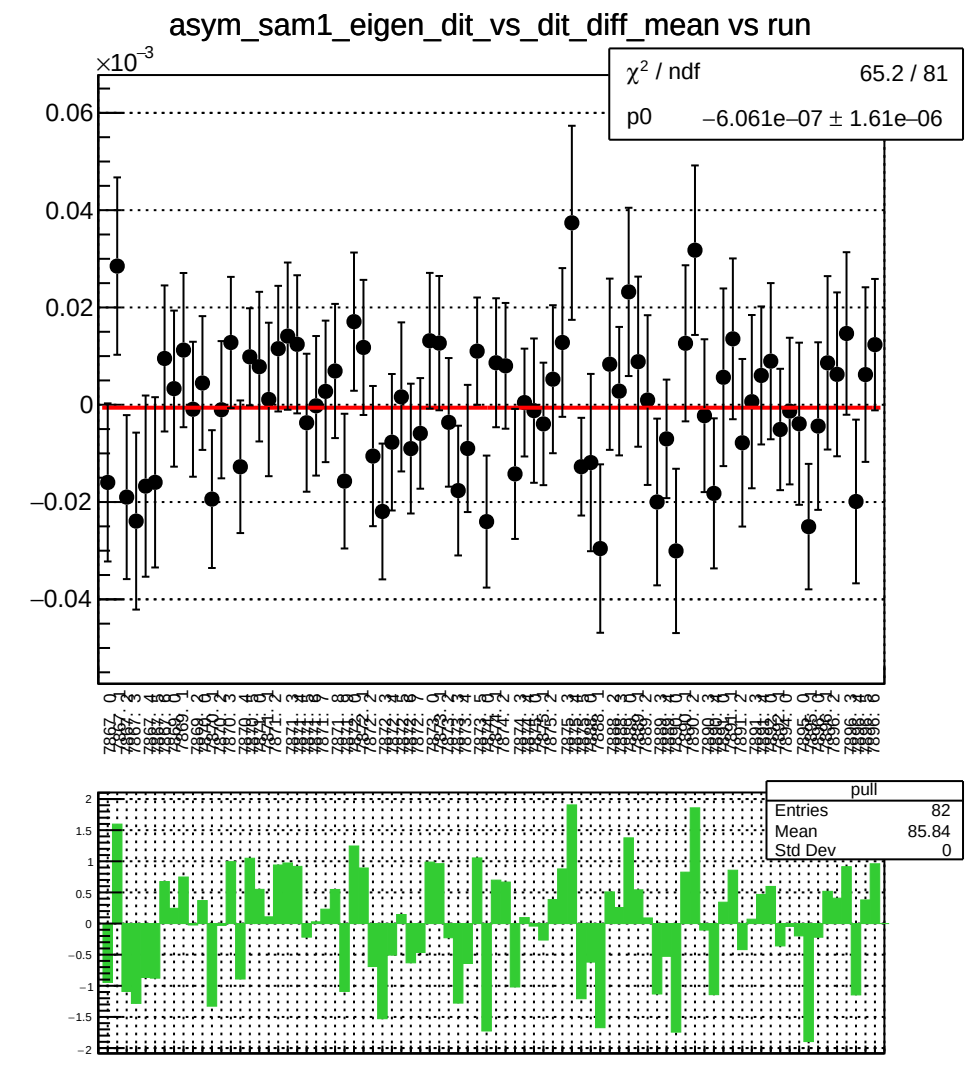

pull1D
Entries 82
Mean 0.007011
Std Dev 1.033

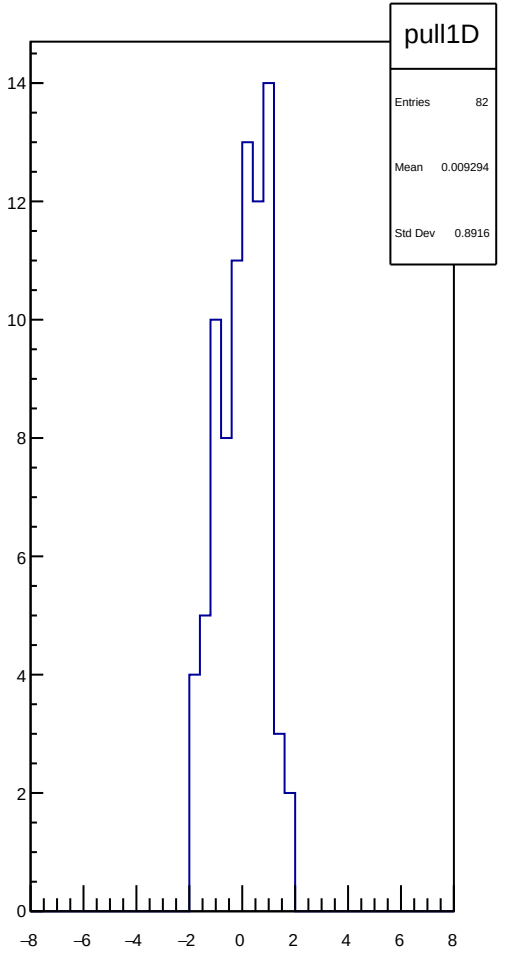

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.705e+04 / 81
p0 23.84 ± 0.01887
50
45
40
35
30
25
20
15

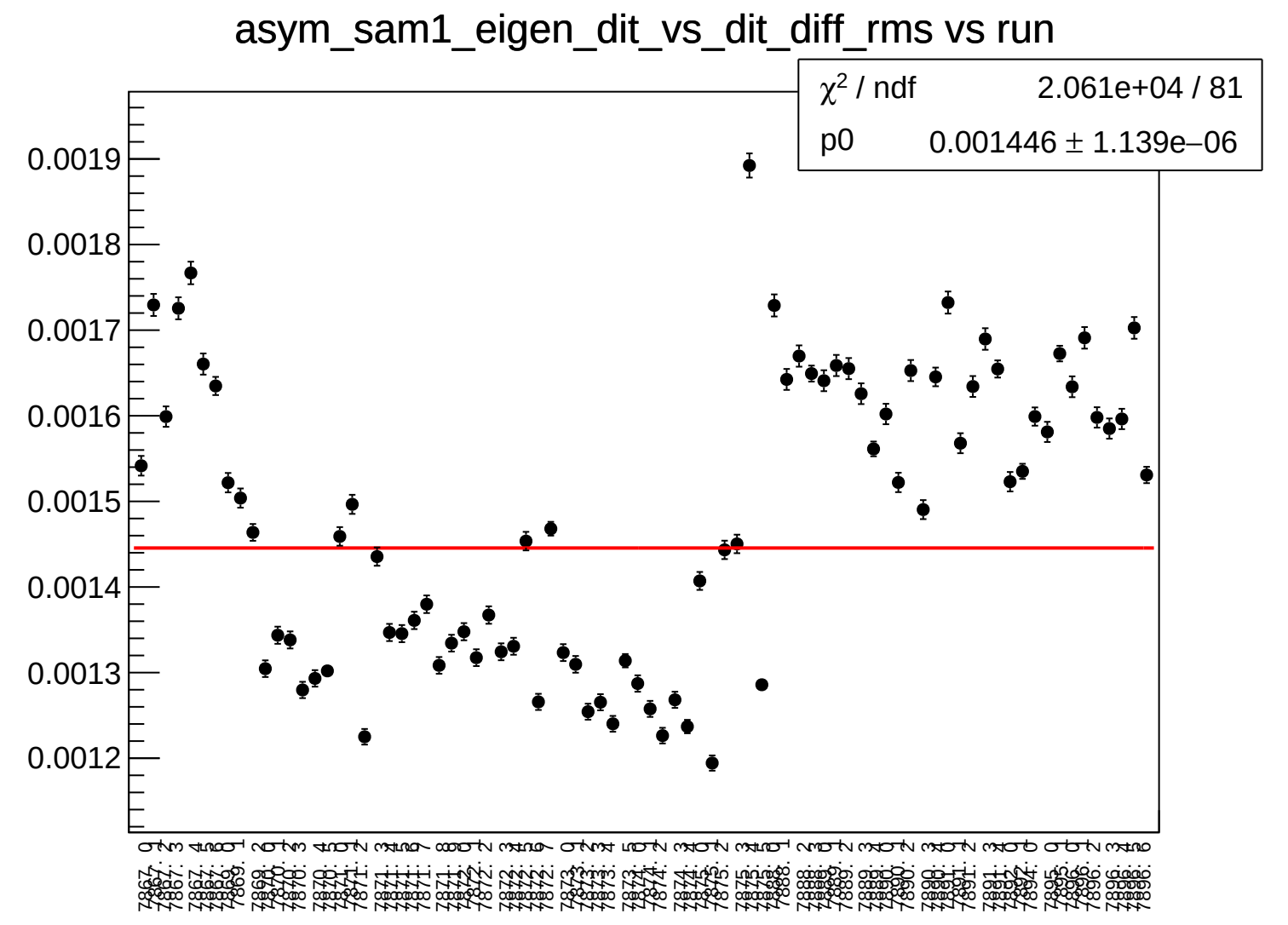

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.45 / 81
p0 −0.01619 ± 0.02669
pull
Entries 82
Mean −319
Std Dev 0

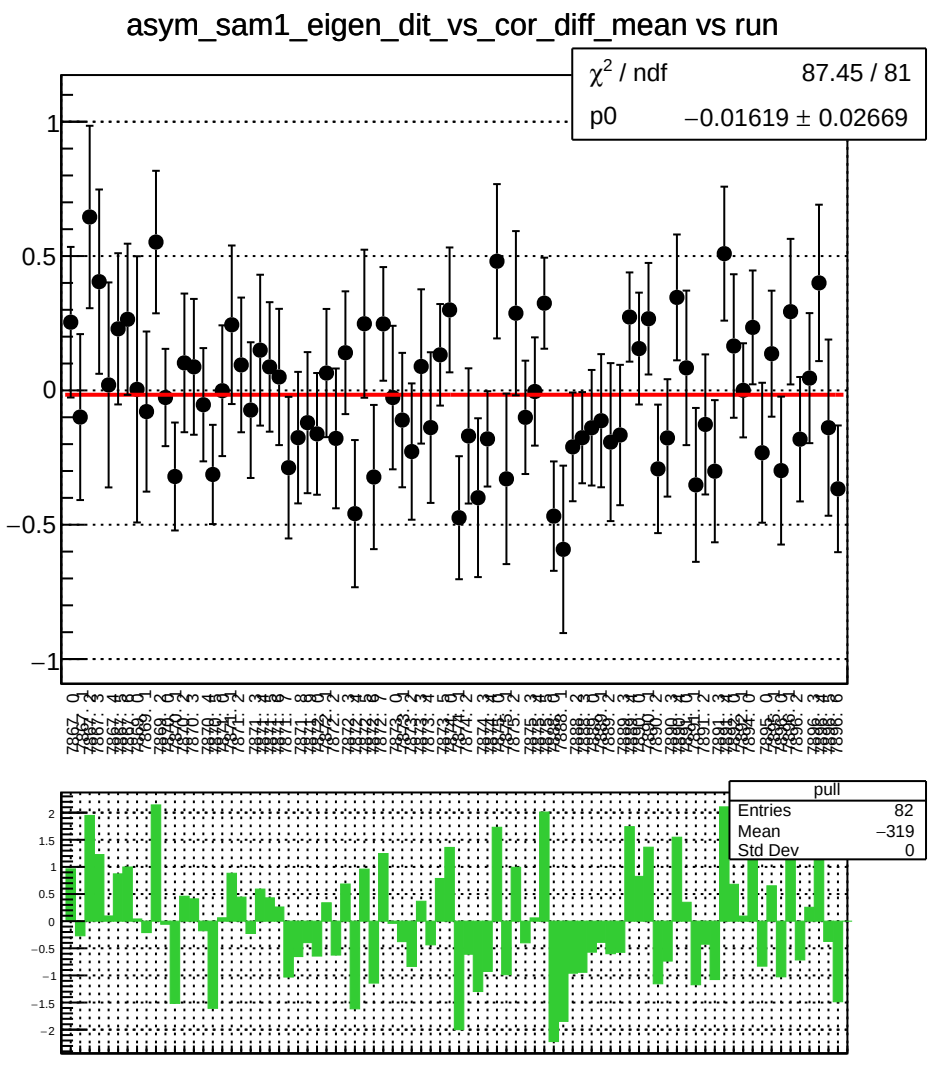

pull1D
Entries 82
Mean 0.007011
Std Dev 1.033

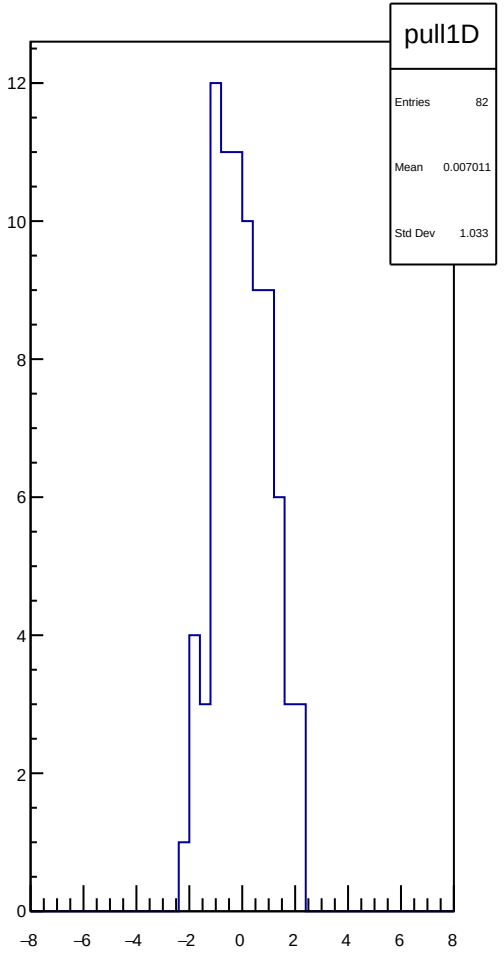

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.705e+04 / 81
p0 23.84 ± 0.01887
50
45
40
35
30
25
20
15

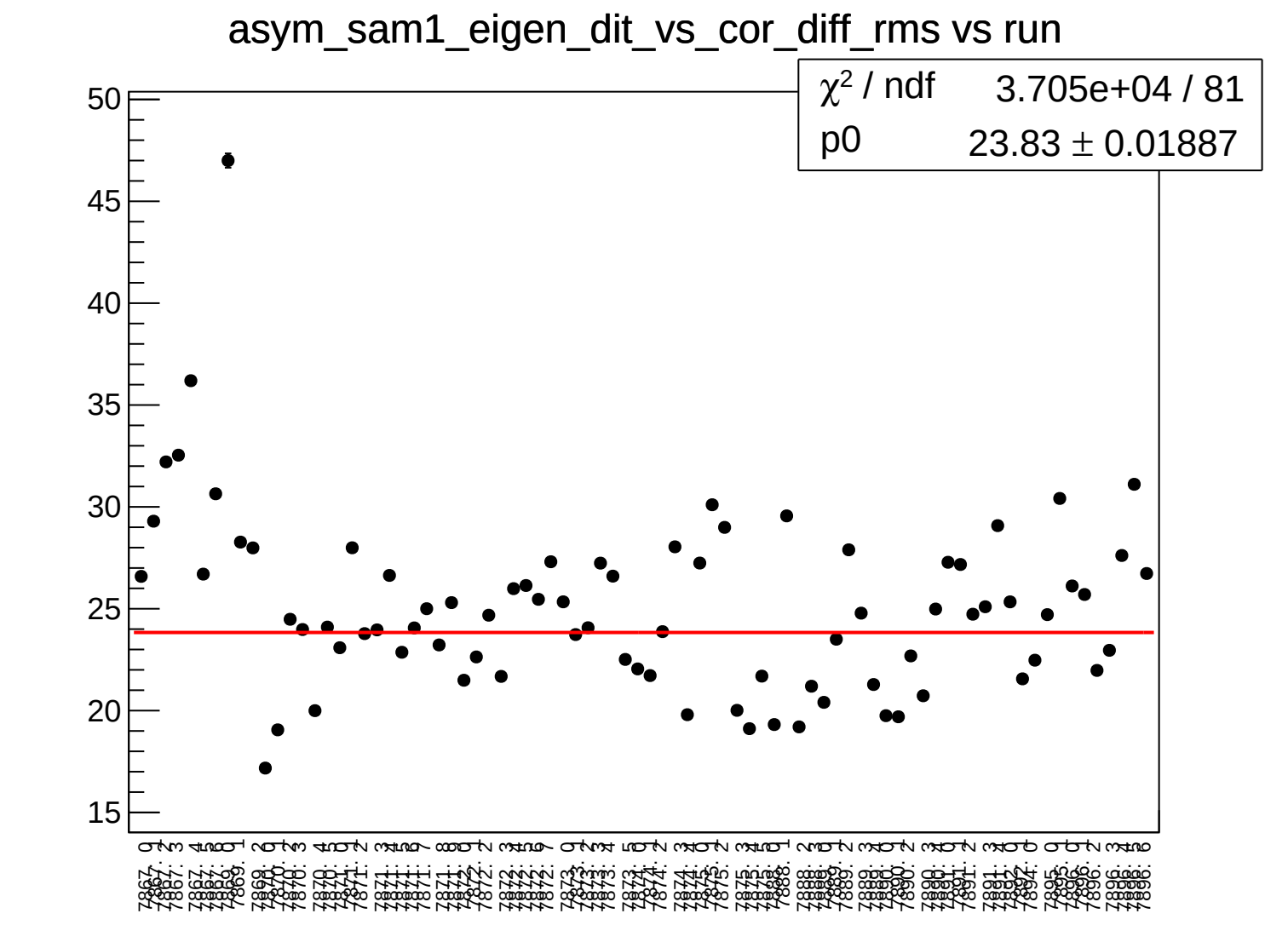

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.2 / 81
p0 −6.061e−07 ± 1.61e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 82
Mean 85.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

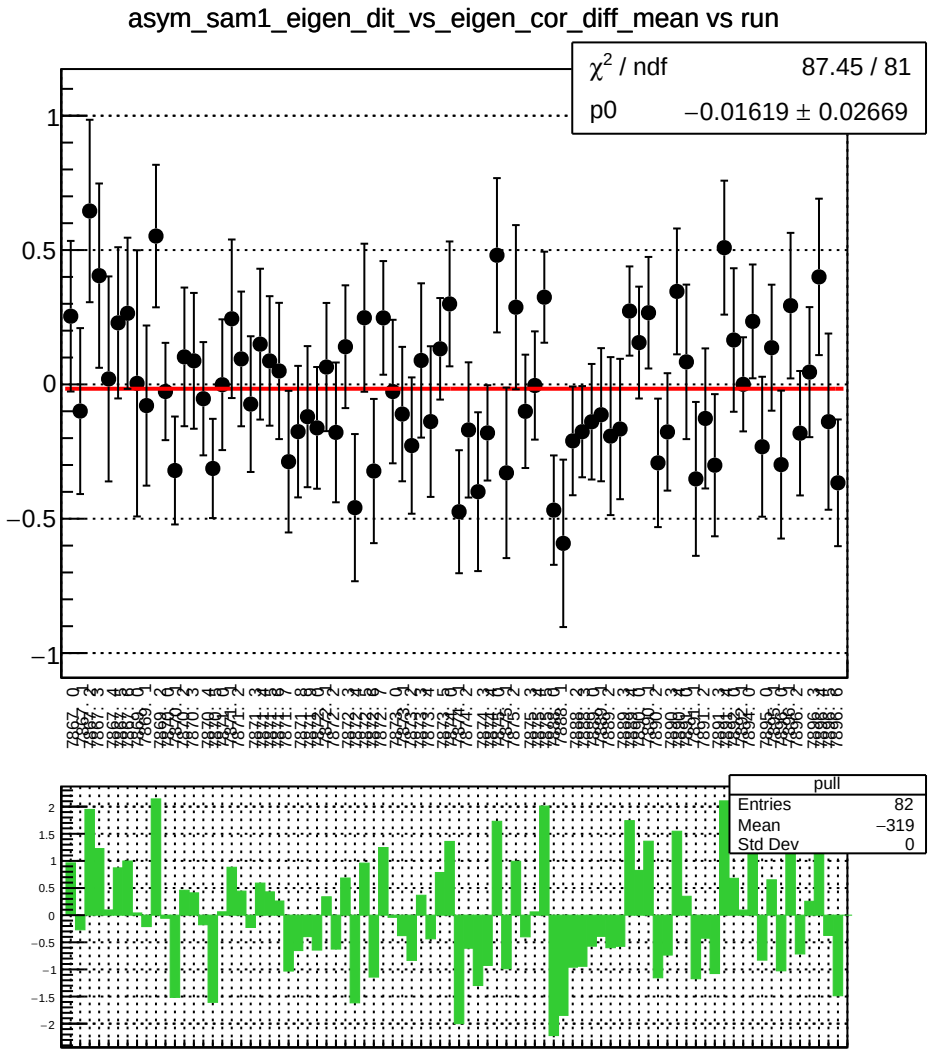

pull1D
Entries 82
Mean 0.009294
Std Dev 0.8916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

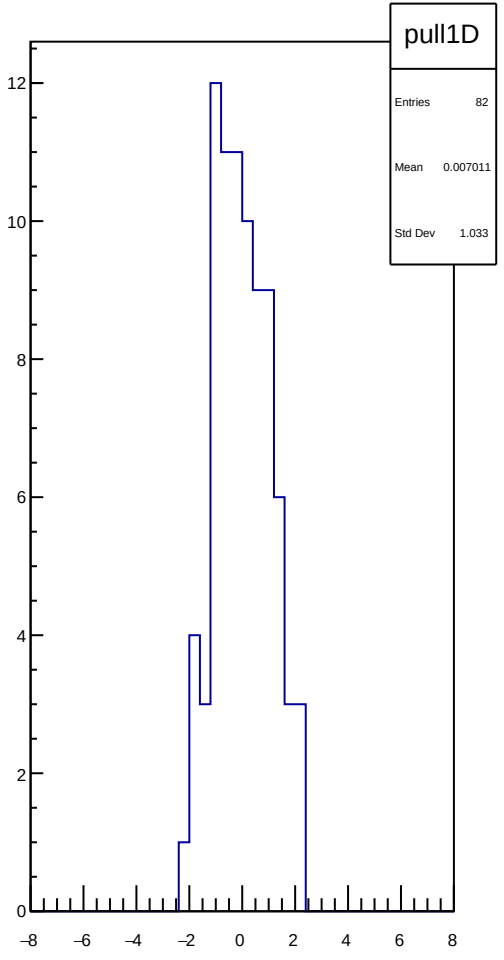

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.061e+04 / 81
p0 0.001446 ± 1.139e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

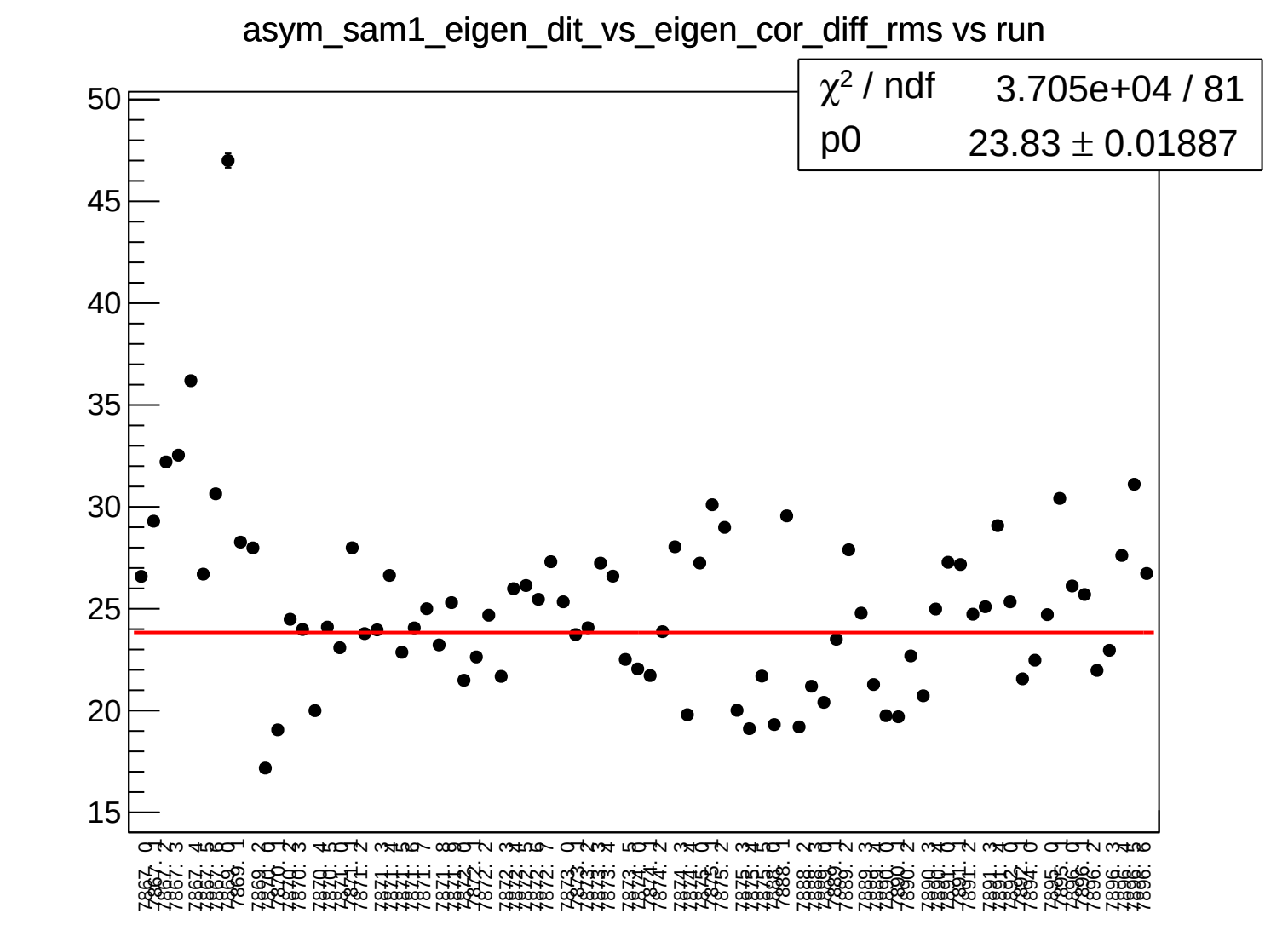

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.45 / 81
p0 −0.01619 ± 0.02669
pull
Entries 82
Mean −319
Std Dev 0

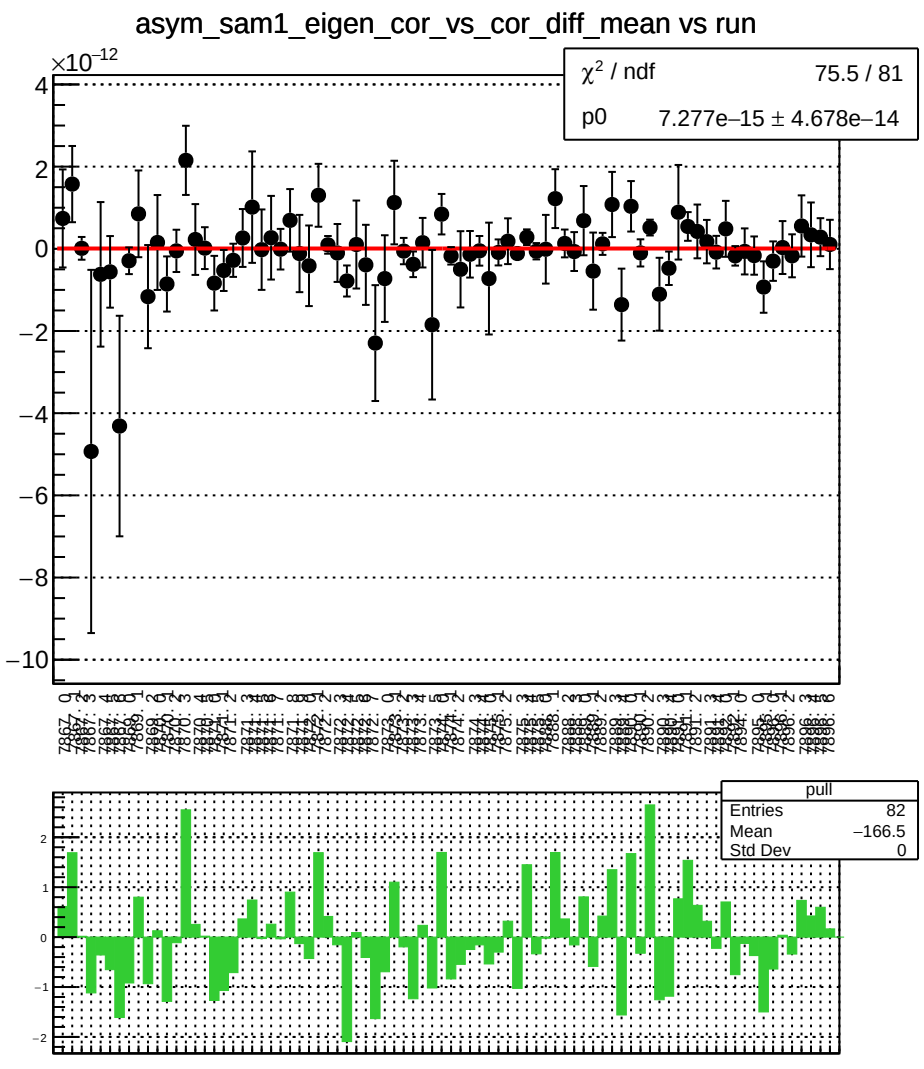

pull1D
Entries 82
Mean 0.007011
Std Dev 1.033

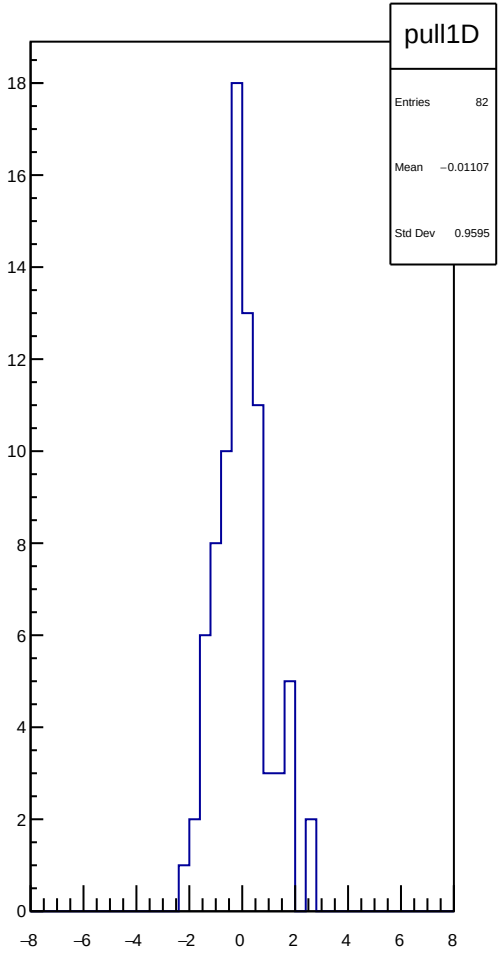

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.705e+04 / 81
p0 23.83 ± 0.01887
50
45
40
35
30
25
20
15

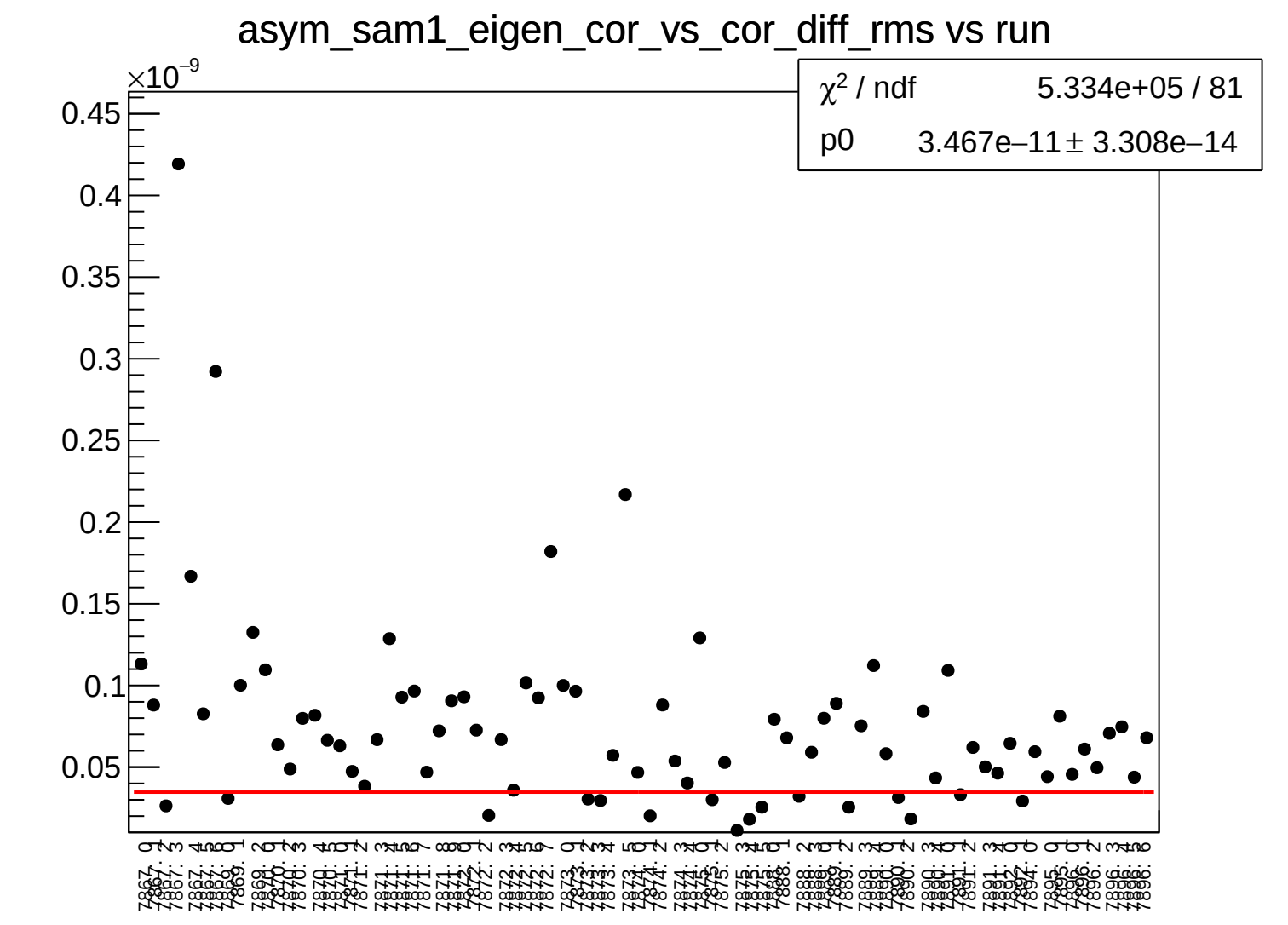

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.45 / 81
p0 −0.01619 ± 0.02669
pull
Entries 82
Mean −319
Std Dev 0

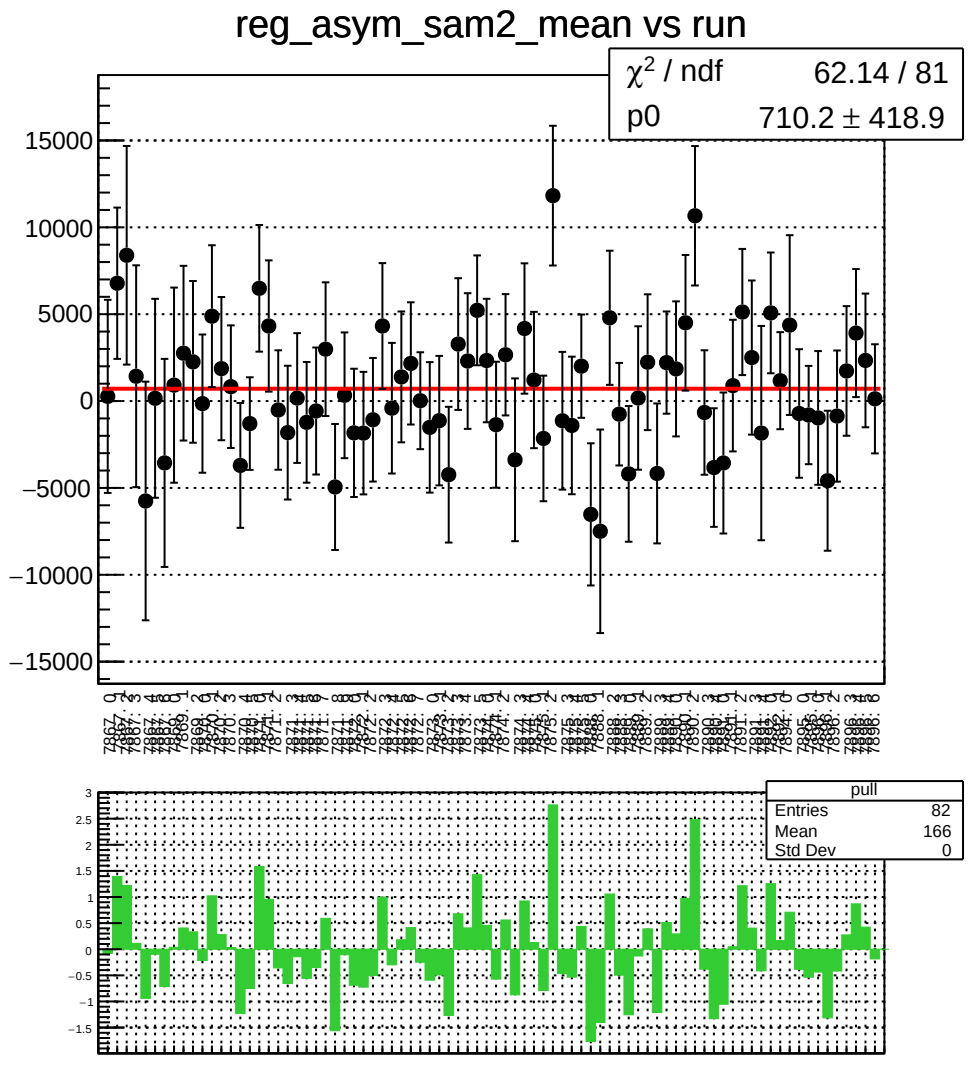

pull1D
Entries 82
Mean 0.007011
Std Dev 1.033

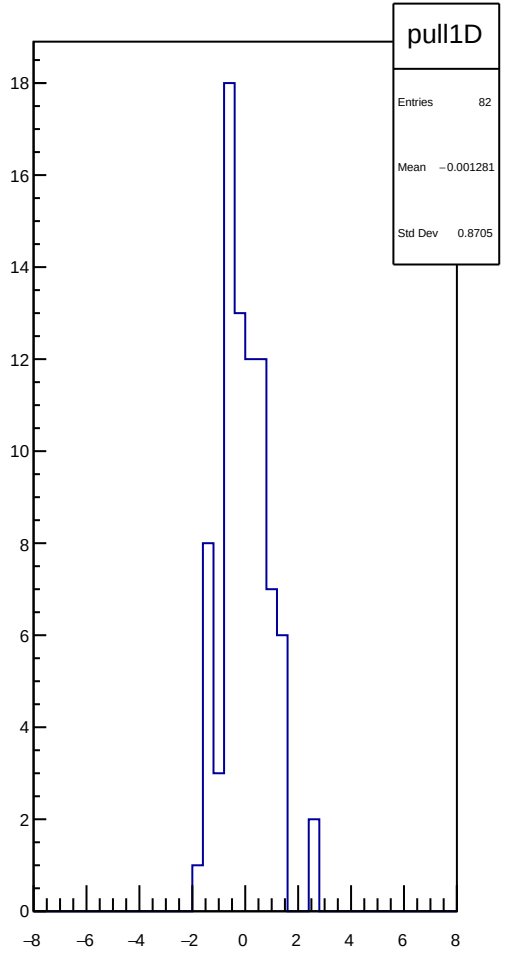

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.705e+04 / 81
p0 23.83 ± 0.01887
50
45
40
35
30
25
20
15

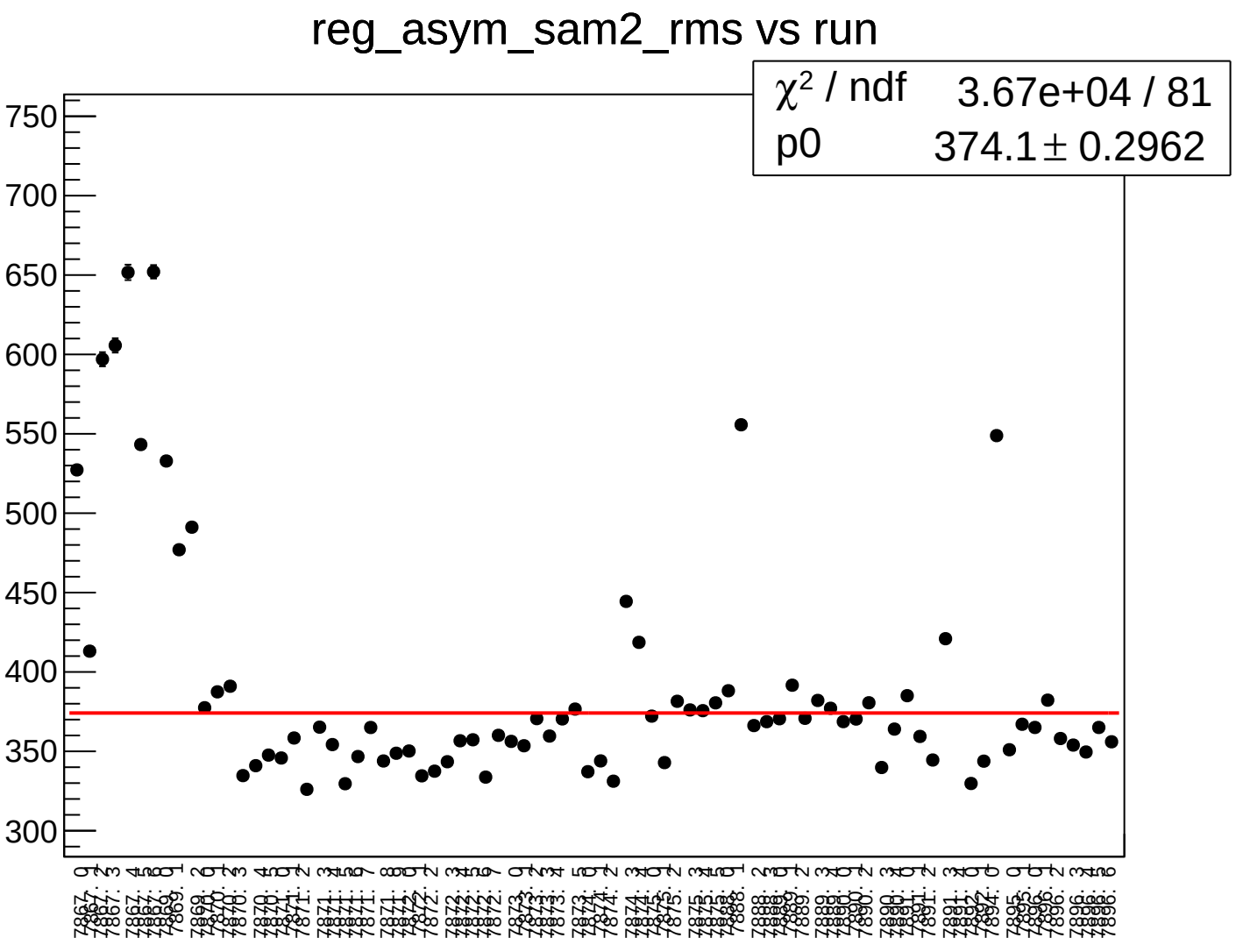

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 75.5 / 81
p0 7.277e−15 ± 4.678e−14
pull
Entries 82
Mean −166.5
Std Dev 0

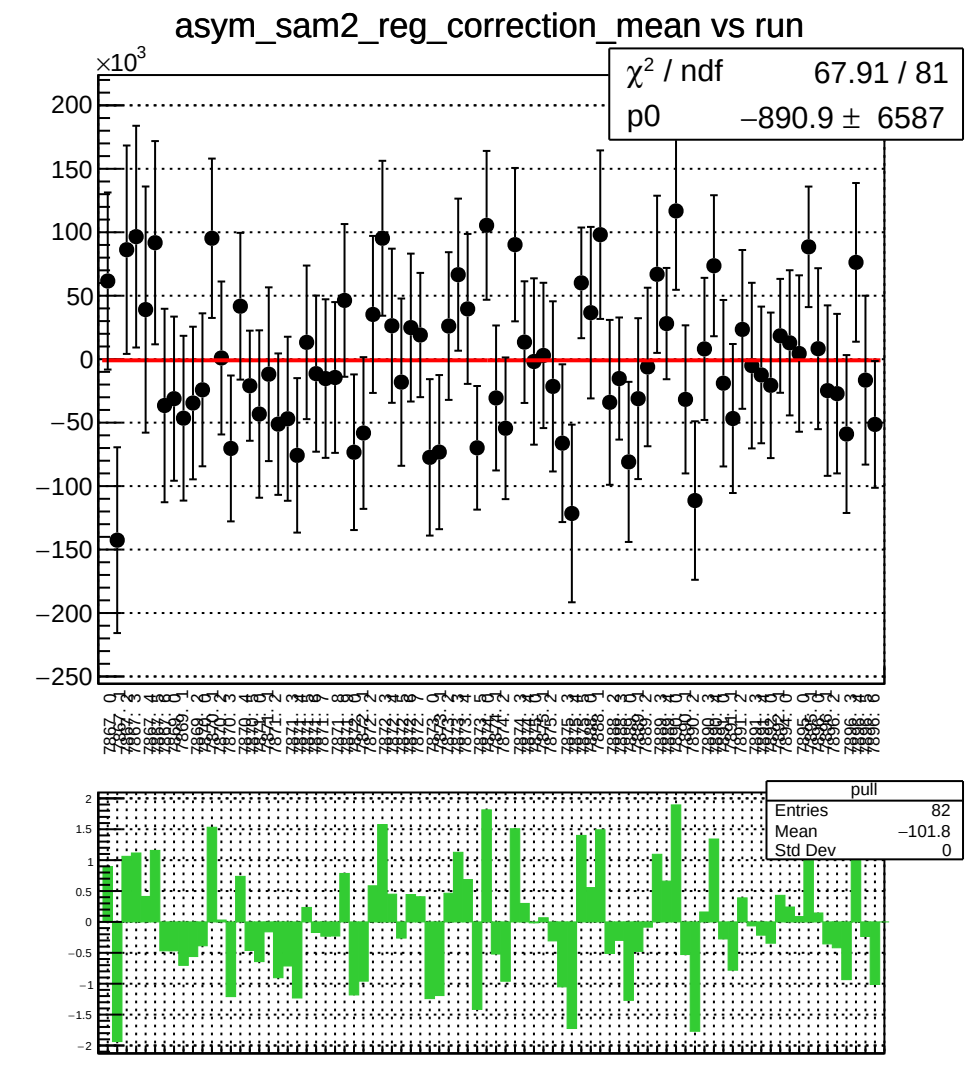

pull1D
Entries 82
Mean −0.01107
Std Dev 0.9595

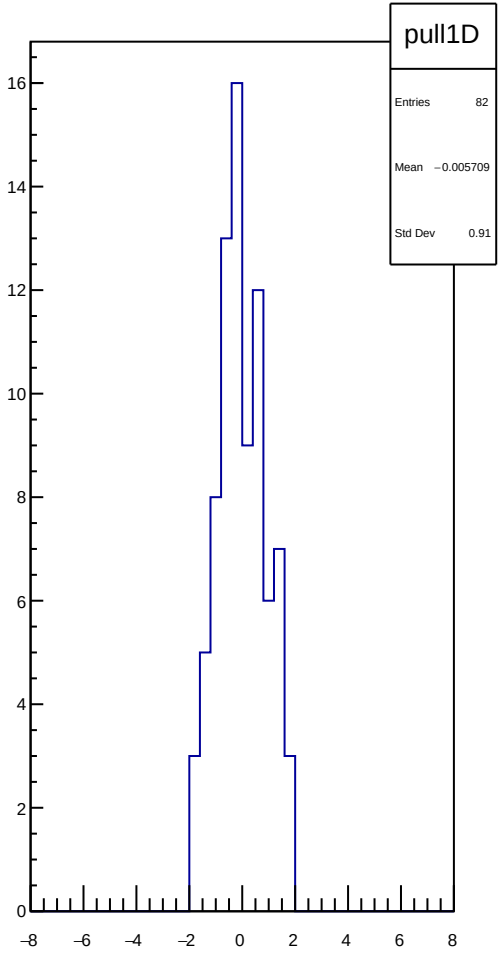

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.334e+05 / 81
p0 3.467e−11 ± 3.308e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

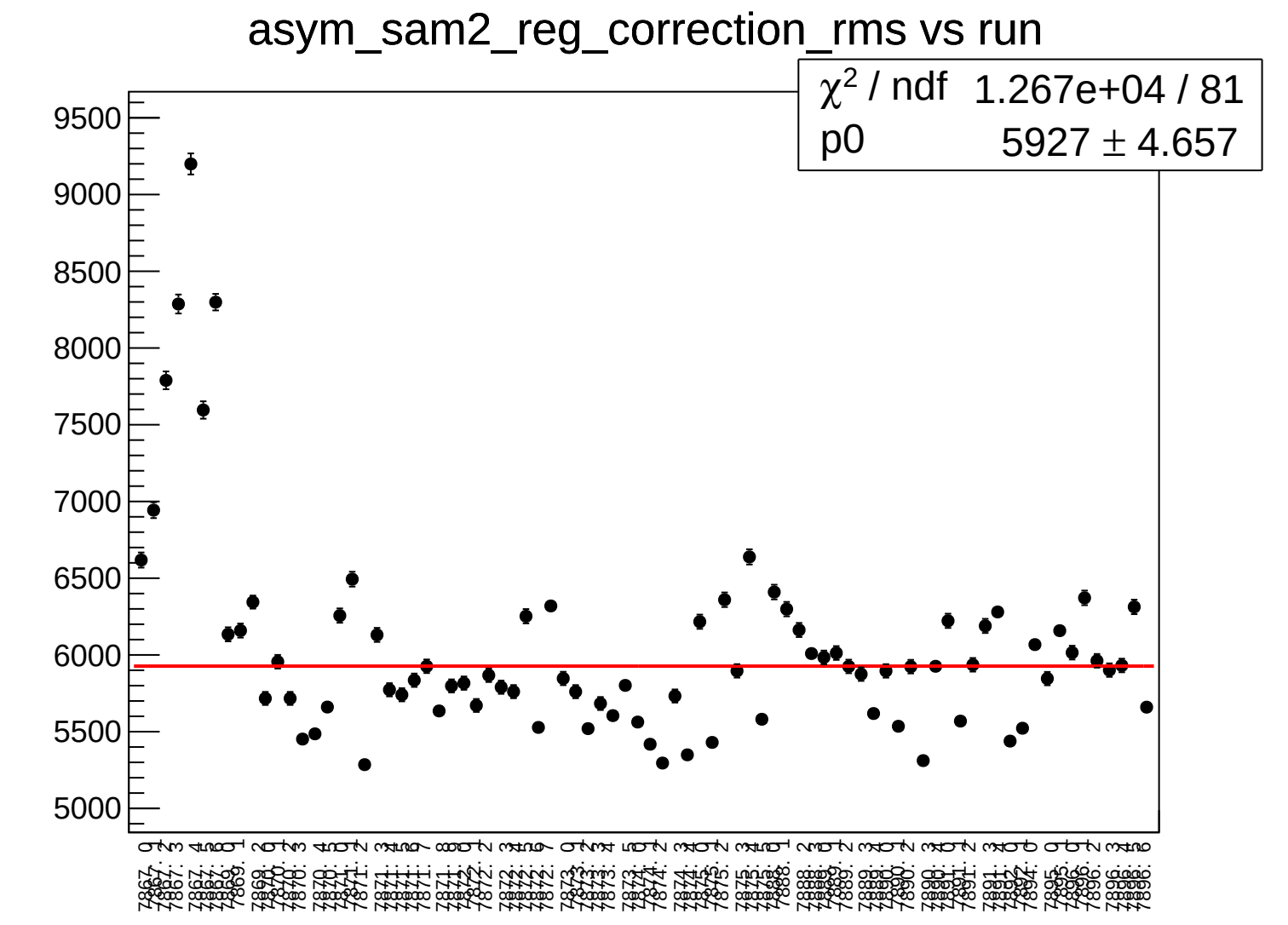

reg_asym_sam2_mean vs run
χ² / ndf 62.14 / 81
p0 710.2 ± 418.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 166
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

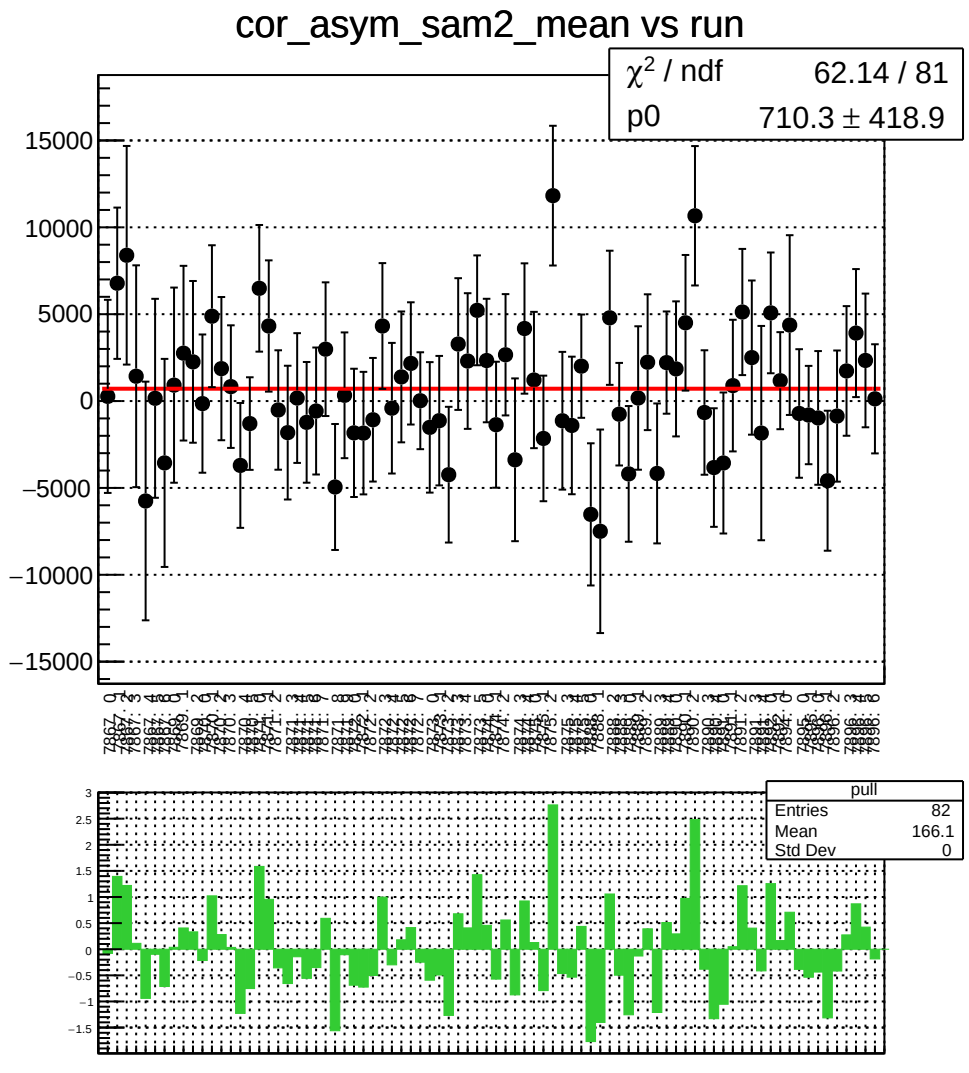

pull1D
Entries 82
Mean −0.001281
Std Dev 0.8705
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

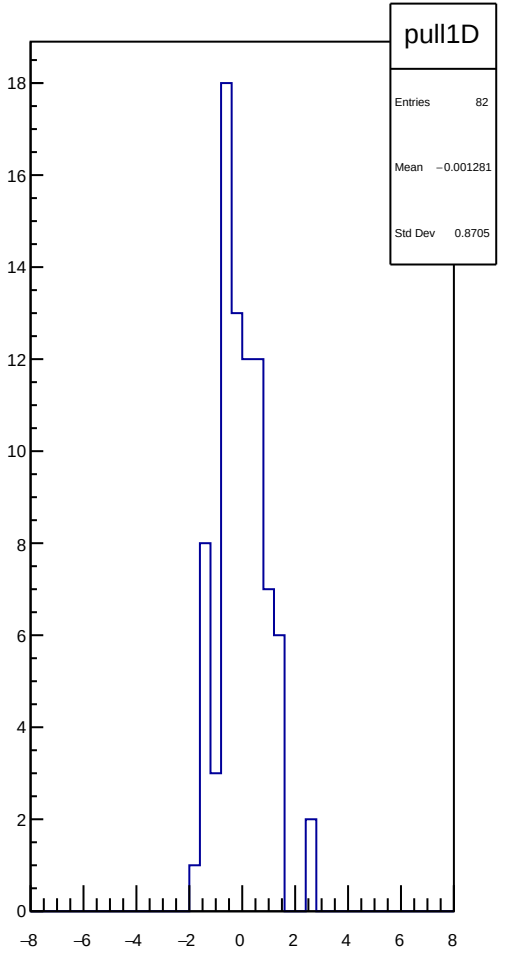

reg_asym_sam2_rms vs run
χ² / ndf 3.67e+04 / 81
p0 374.1 ± 0.2962
750
700
650
600
550
500
450
400
350
300

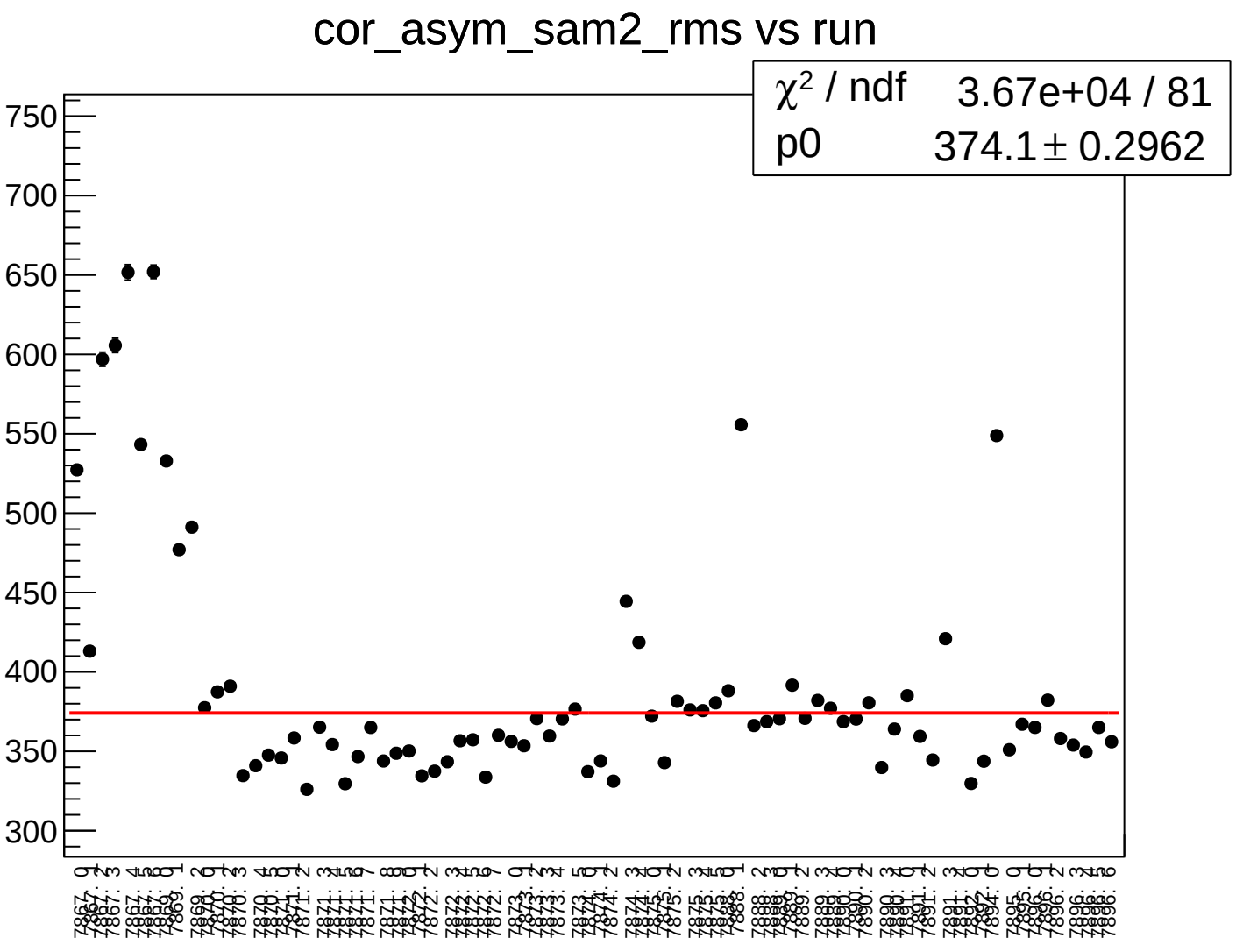

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 67.91 / 81
p0 −890.9 ± 6587
pull
Entries 82
Mean −101.8
Std Dev 0

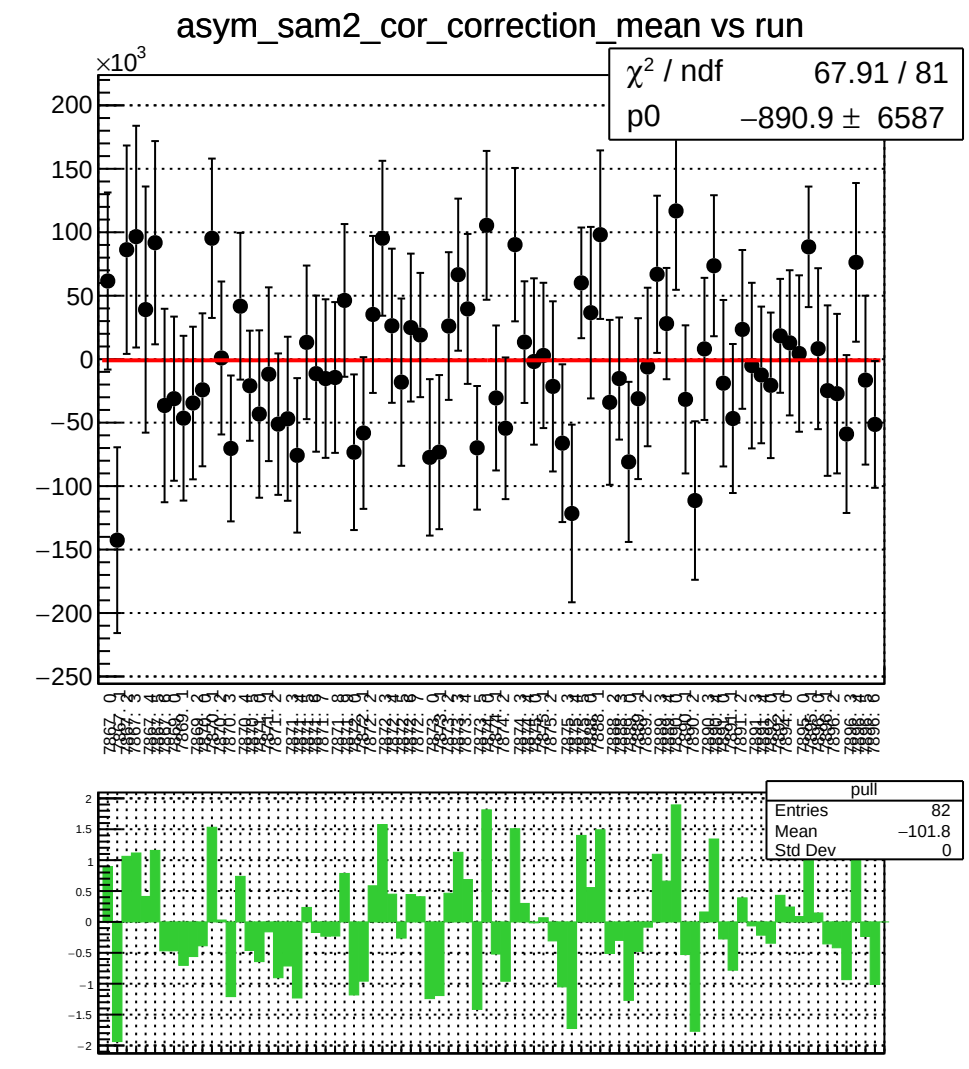

pull1D
Entries 82
Mean −0.005709
Std Dev 0.91

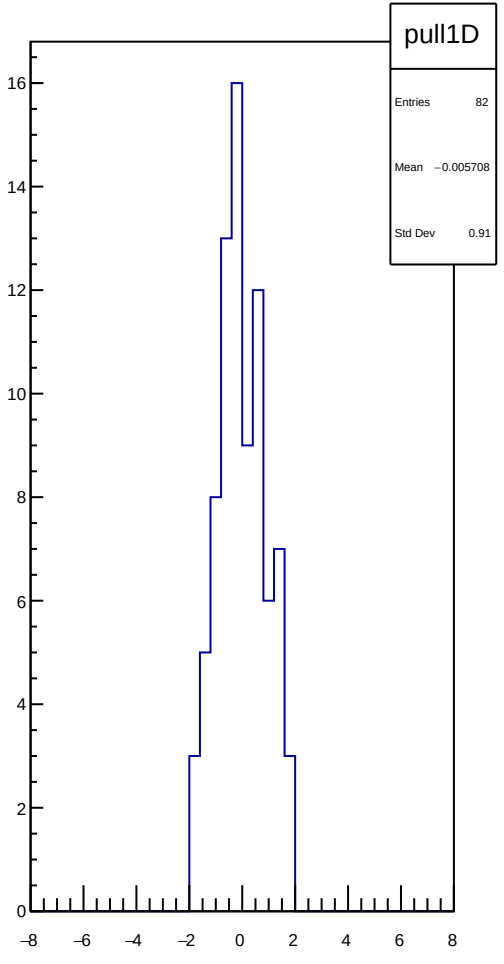

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.267e+04 / 81
p0 5927 ± 4.657
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

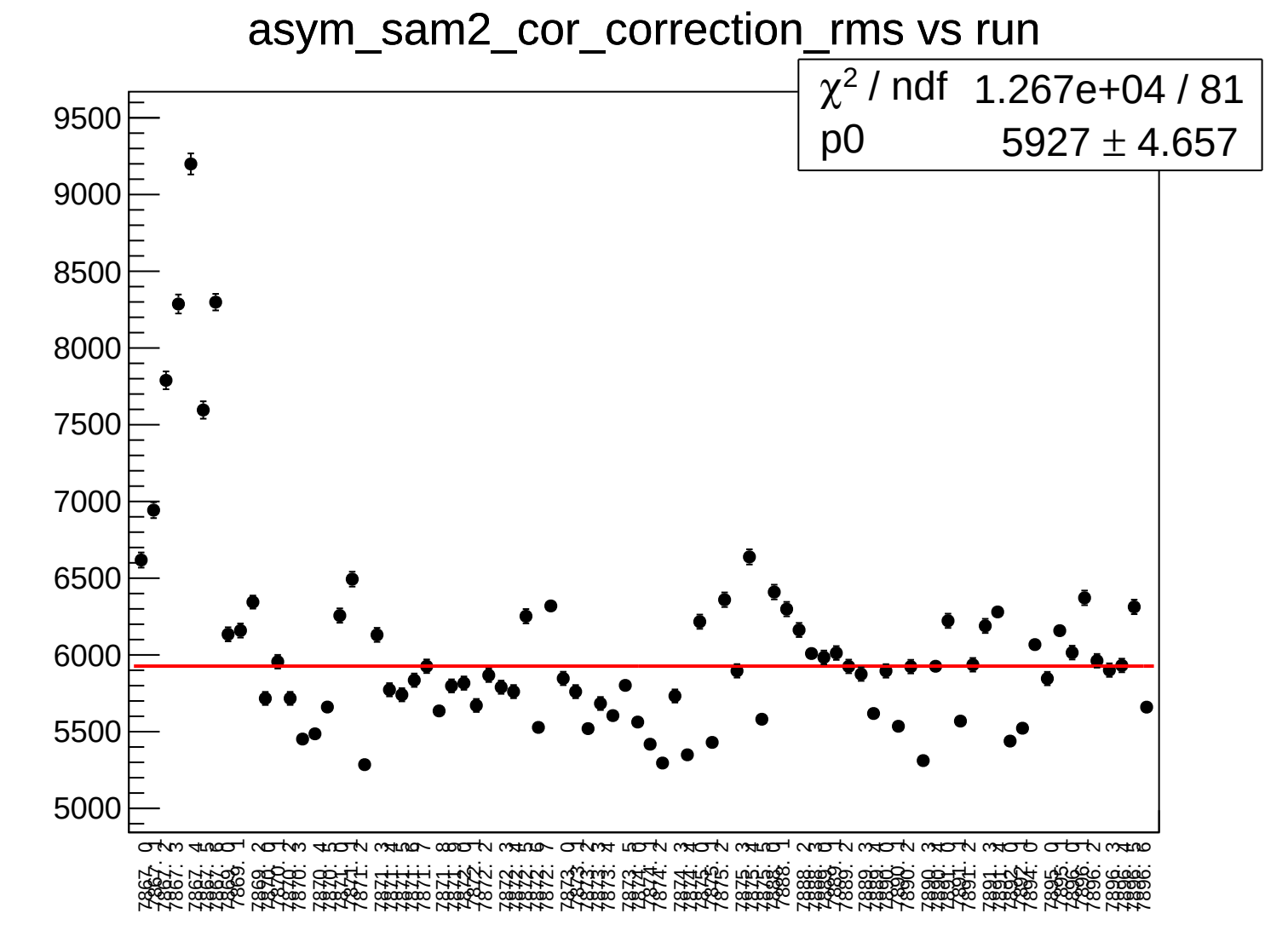

cor_asym_sam2_mean vs run
χ² / ndf 62.14 / 81
p0 710.3 ± 418.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 166.1
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

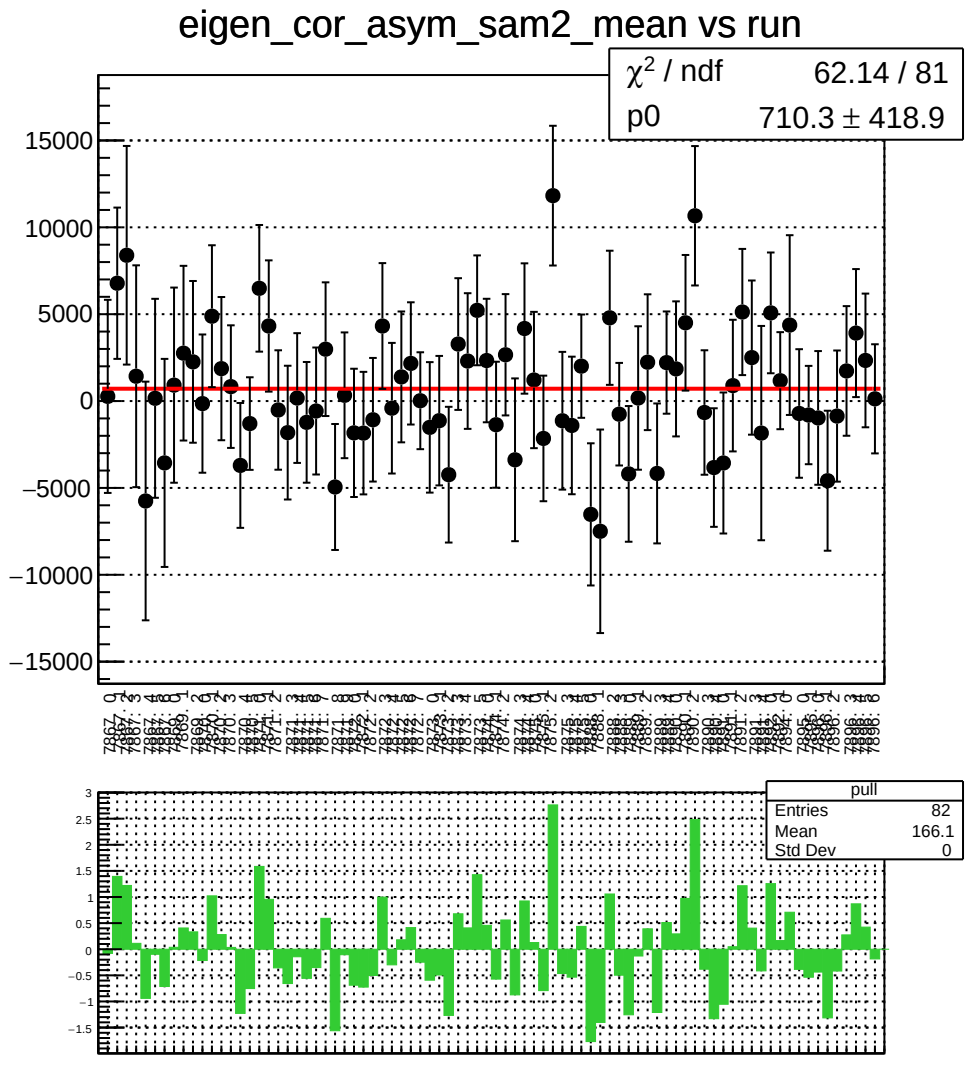

pull1D
Entries 82
Mean −0.001281
Std Dev 0.8705
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

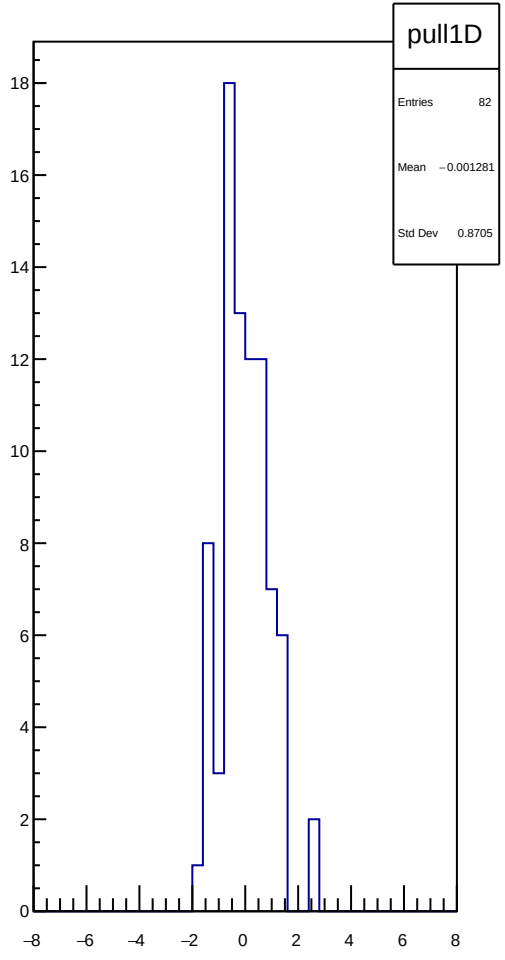

cor_asym_sam2_rms vs run
χ² / ndf 3.67e+04 / 81
p0 374.1 ± 0.2962
750
700
650
600
550
500
450
400
350
300

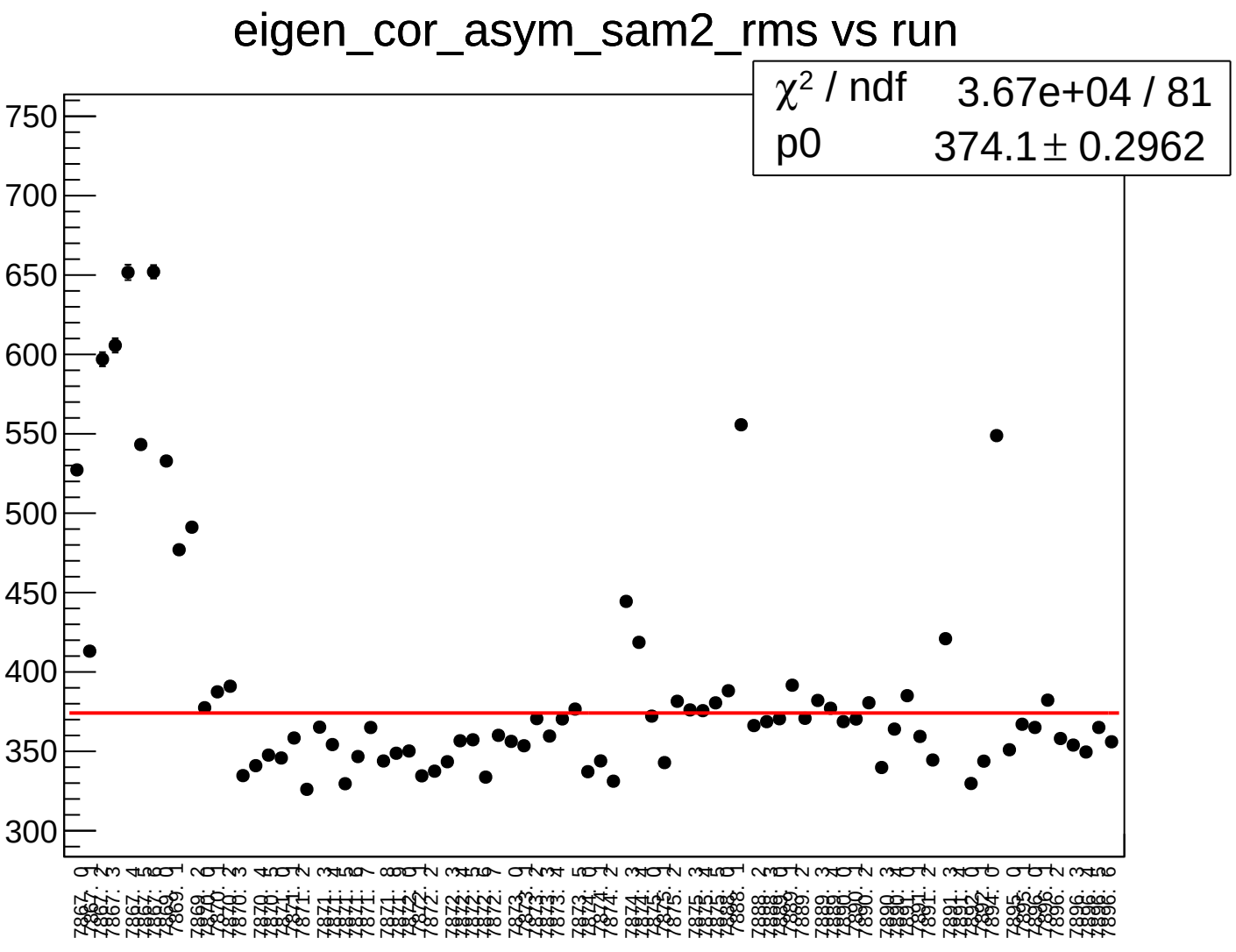

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 67.91 / 81
p0 −890.9 ± 6587
pull
Entries 82
Mean −101.8
Std Dev 0

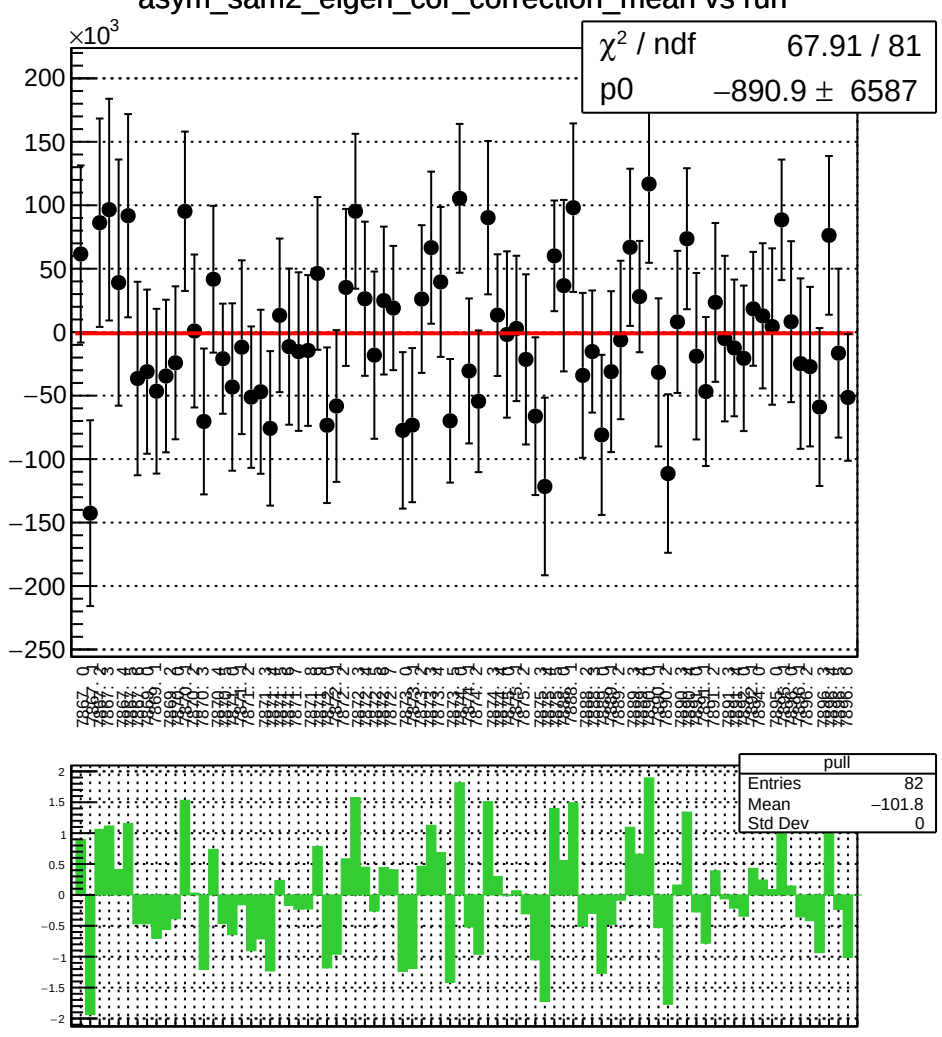

pull1D
Entries 82
Mean −0.005708
Std Dev 0.91

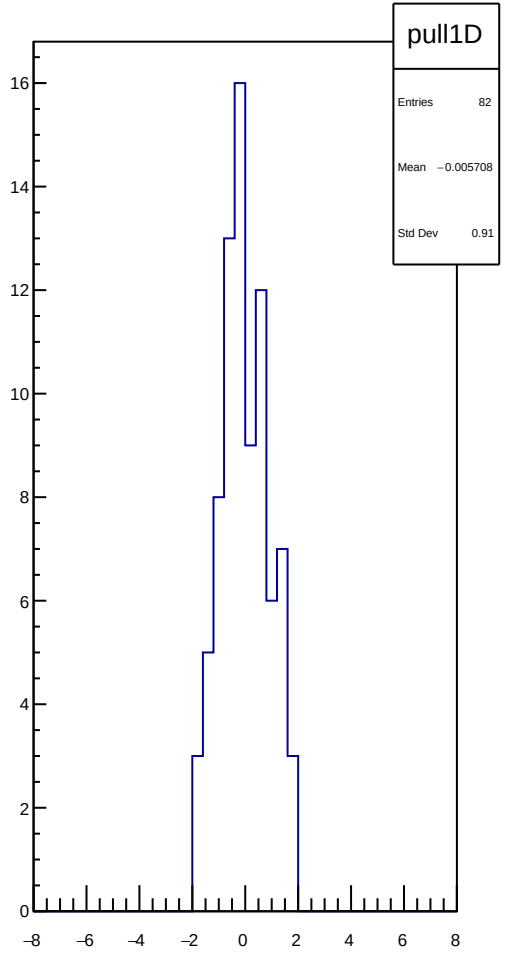

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.267e+04 / 81
p0 5927 ± 4.657
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

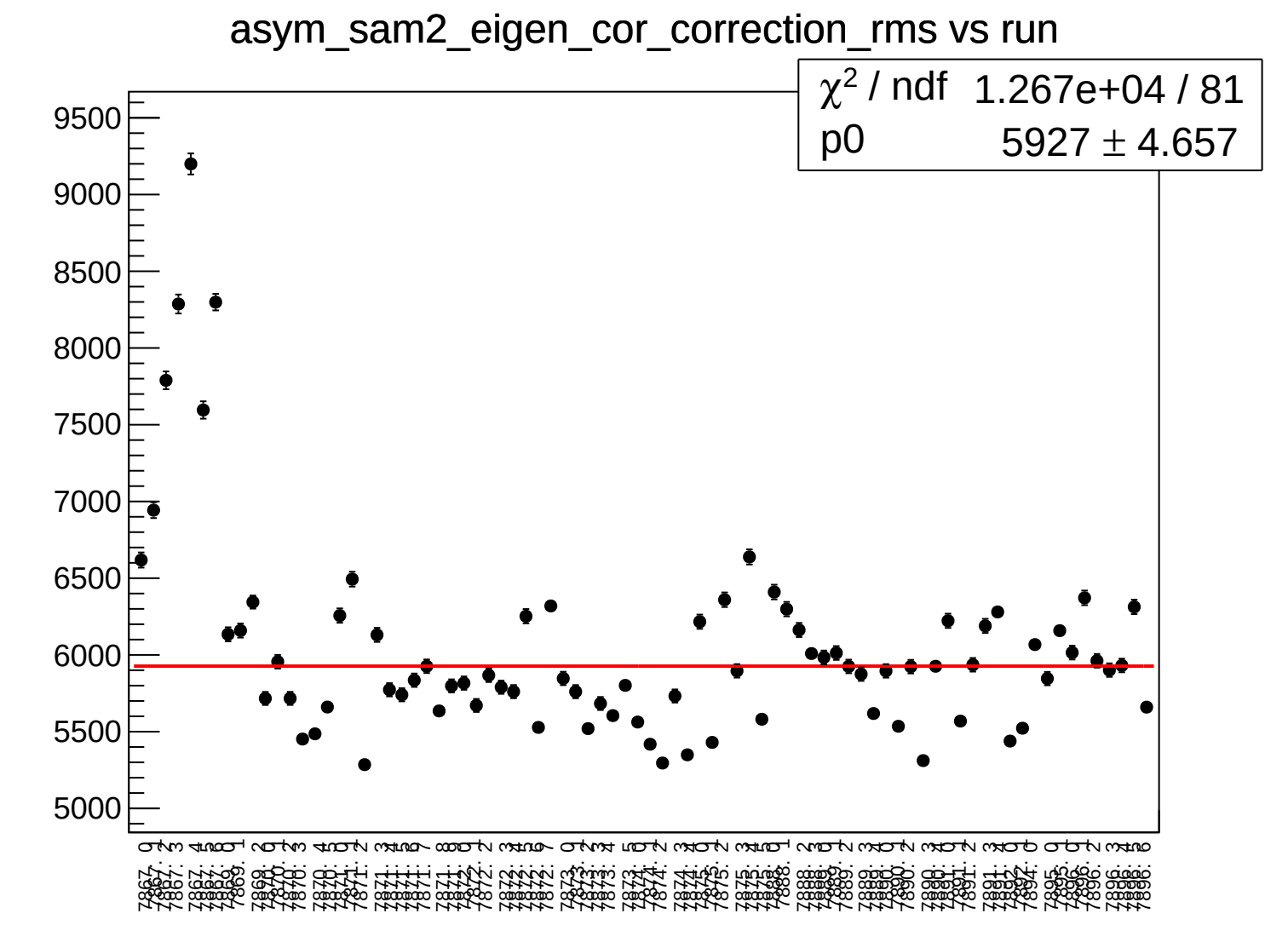

eigen_cor_asym_sam2_mean vs run
χ² / ndf 62.14 / 81
p0 710.3 ± 418.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 166.1
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

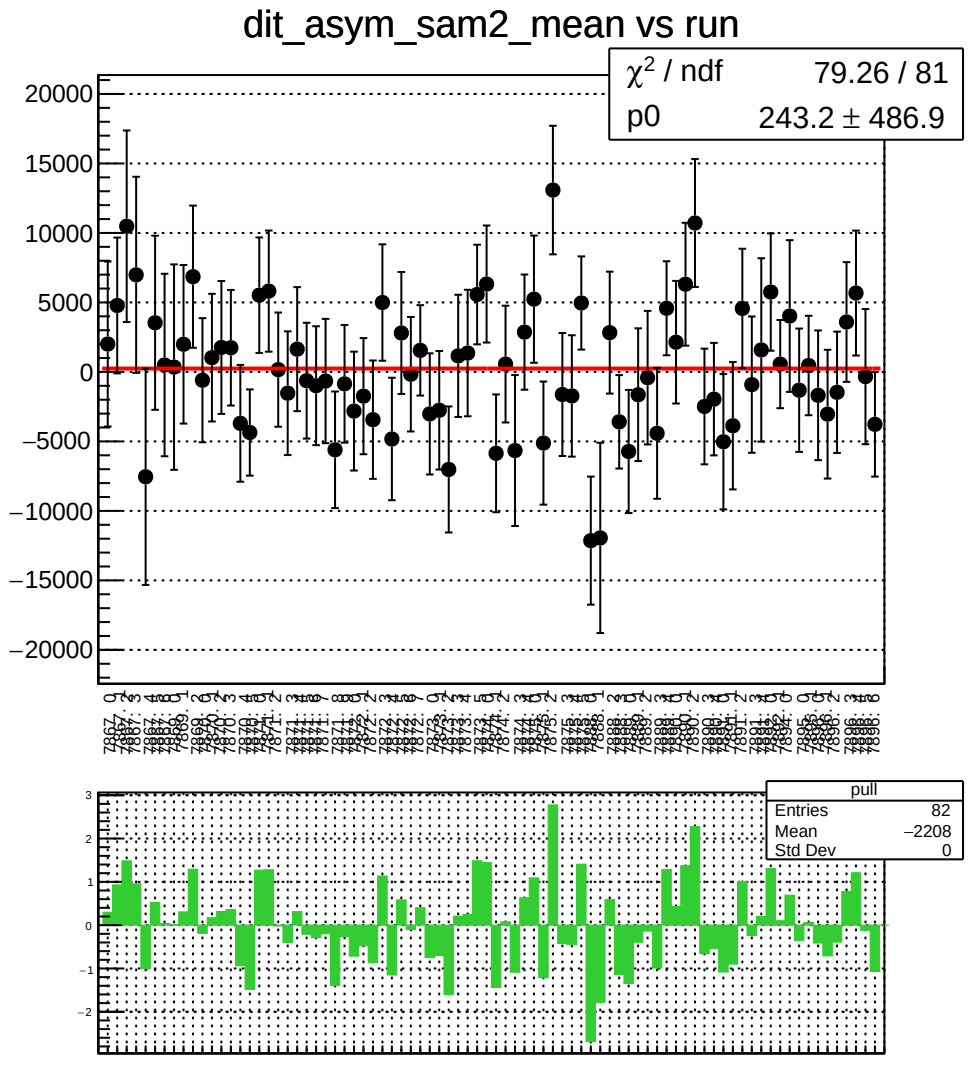

pull1D
Entries 82
Mean −0.001281
Std Dev 0.8705
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

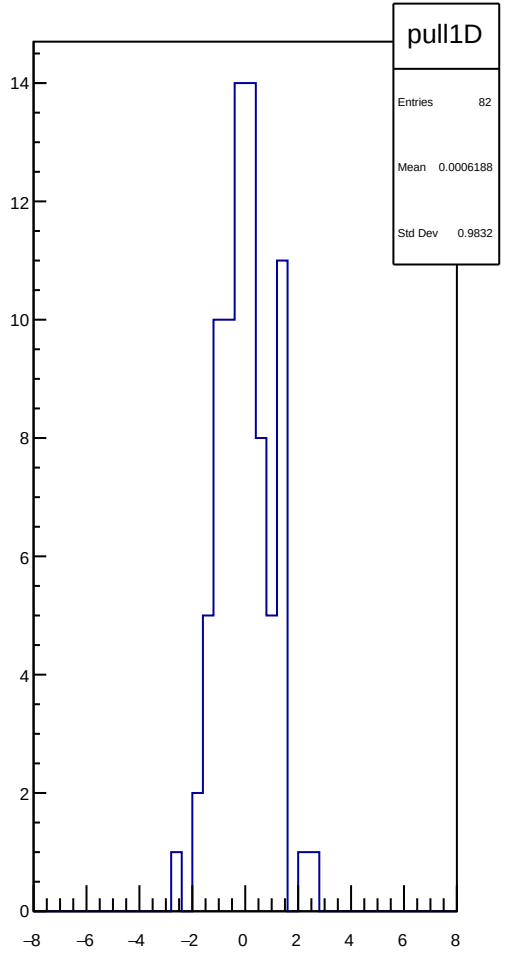

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3.67e+04 / 81
p0 374.1 ± 0.2962
750
700
650
600
550
500
450
400
350
300

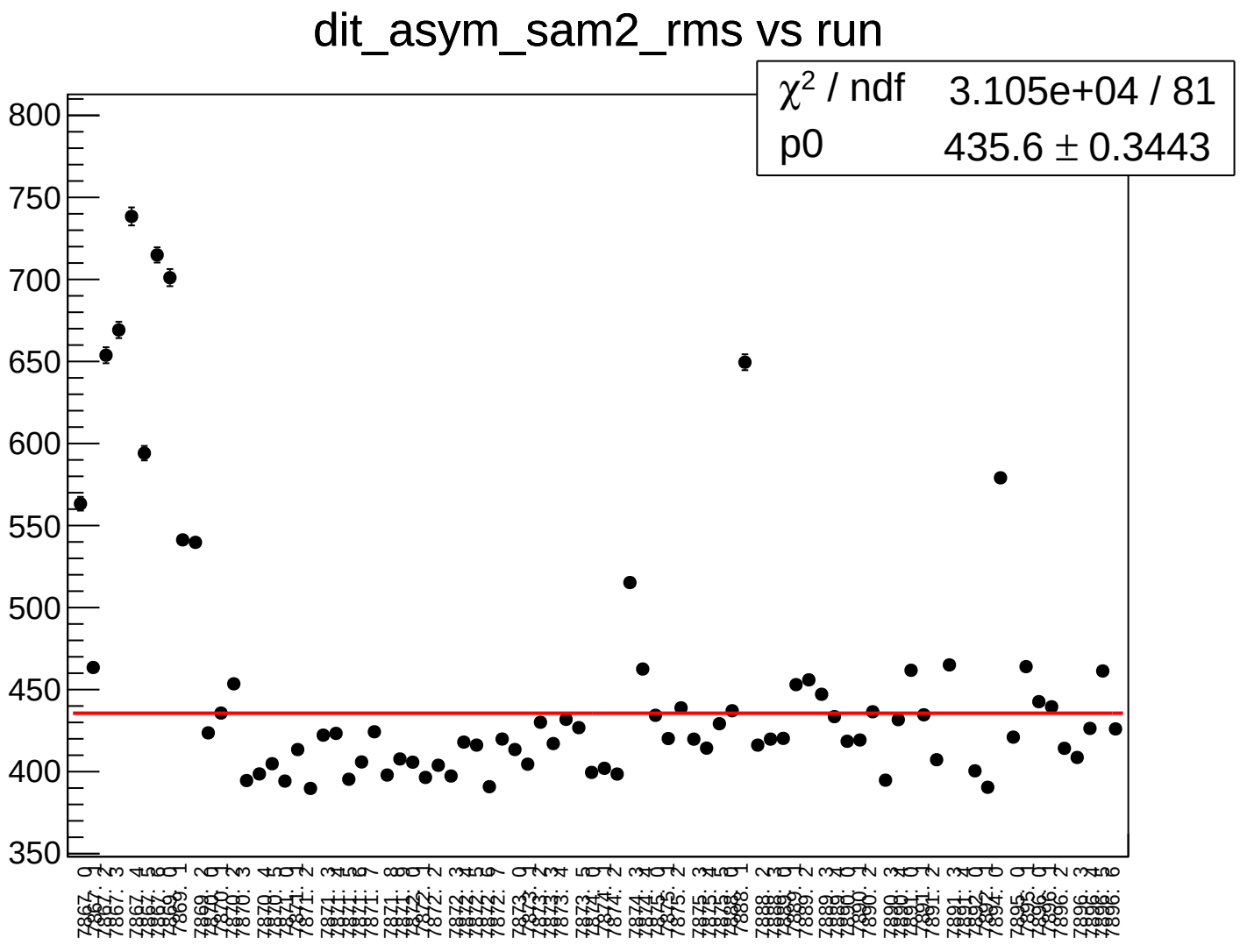

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.91 / 81
p0 −890.9 ± 6587
pull
Entries 82
Mean −101.8
Std Dev 0

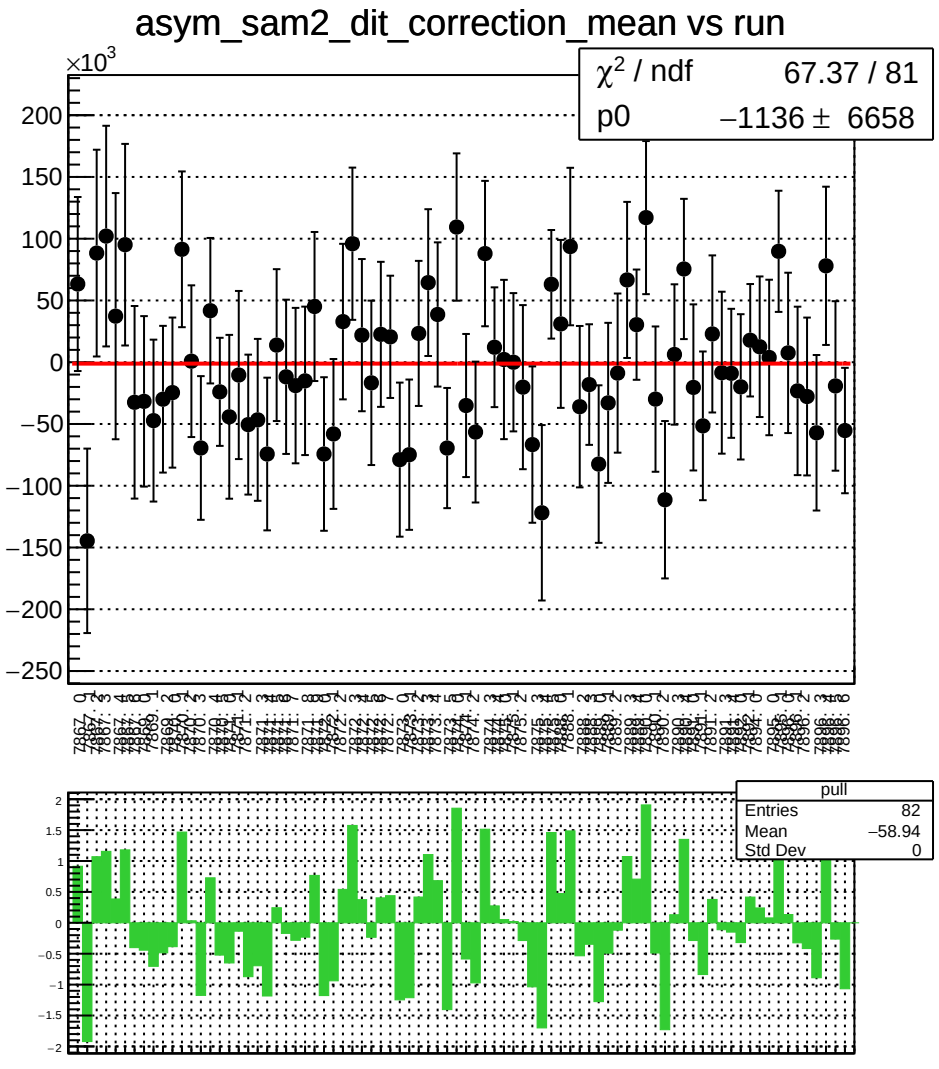

pull1D
Entries 82
Mean −0.005708
Std Dev 0.91

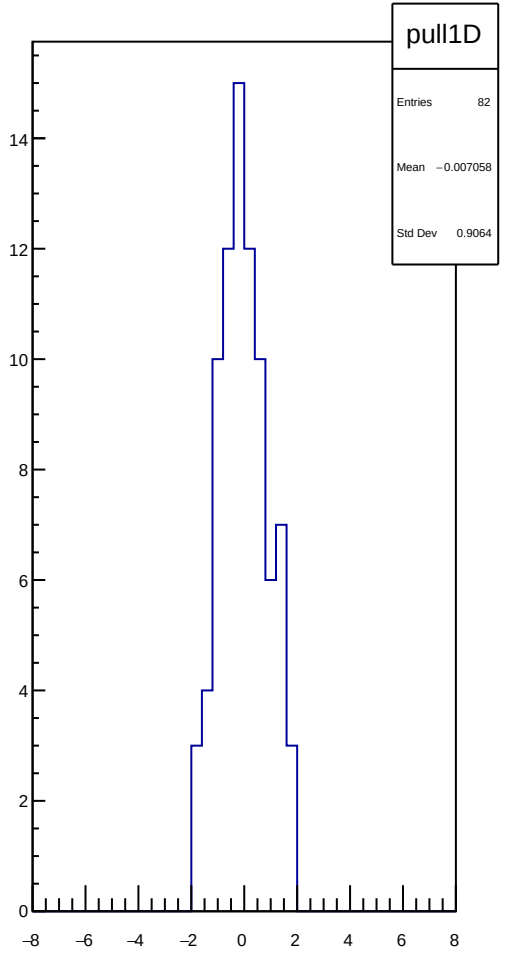

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 1.267e+04 / 81
p0 5927 ± 4.657
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

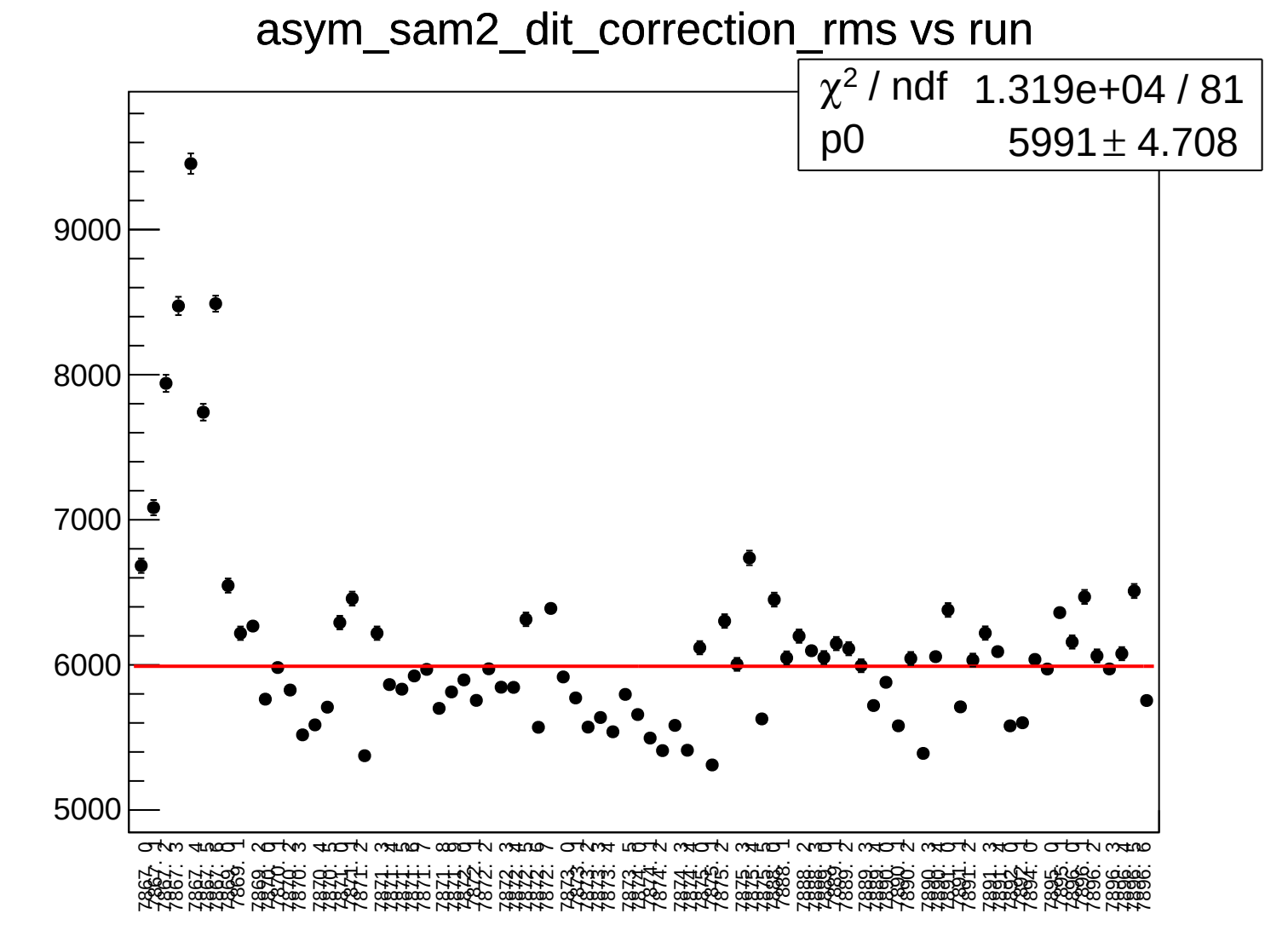

dit_asym_sam2_mean vs run
χ² / ndf 79.26 / 81
p0 243.2 ± 486.9
pull
Entries 82
Mean −2208
Std Dev 0

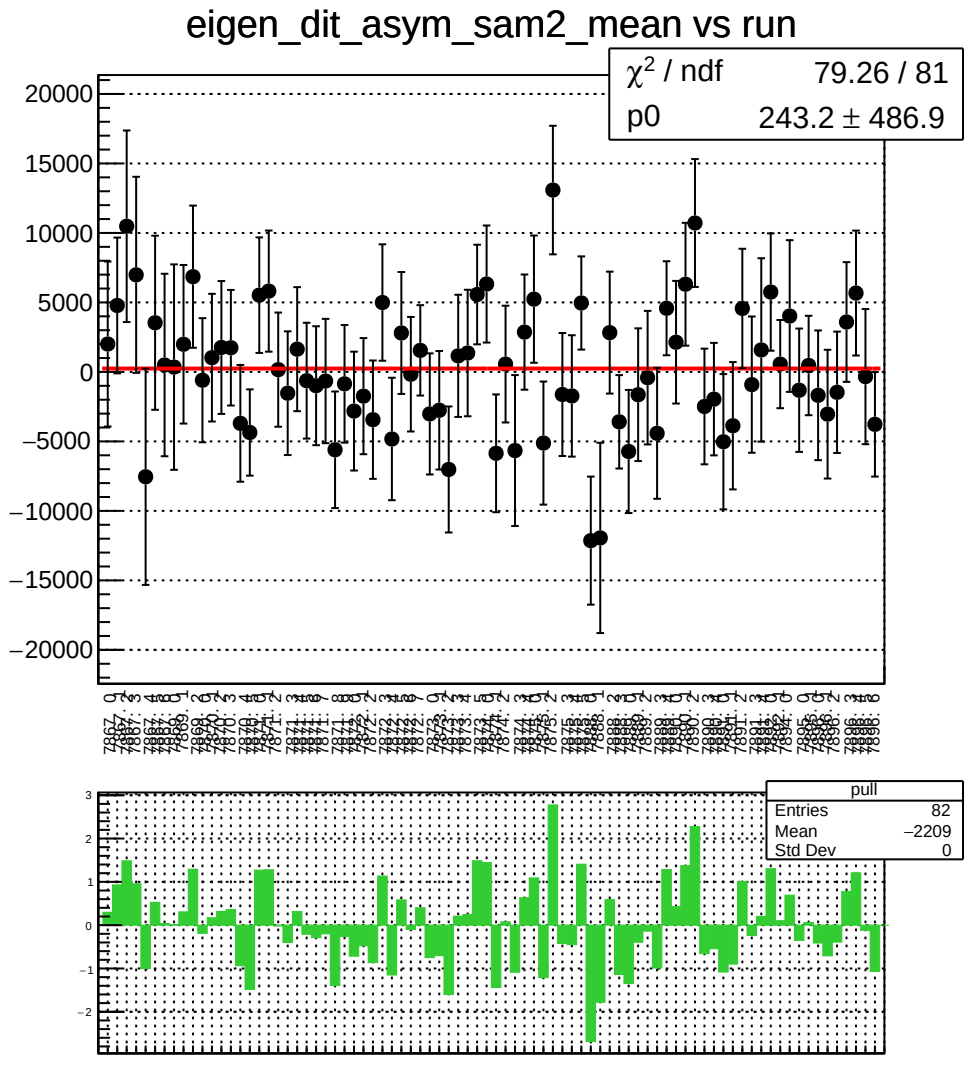

pull1D
Entries 82
Mean 0.0006188
Std Dev 0.9832

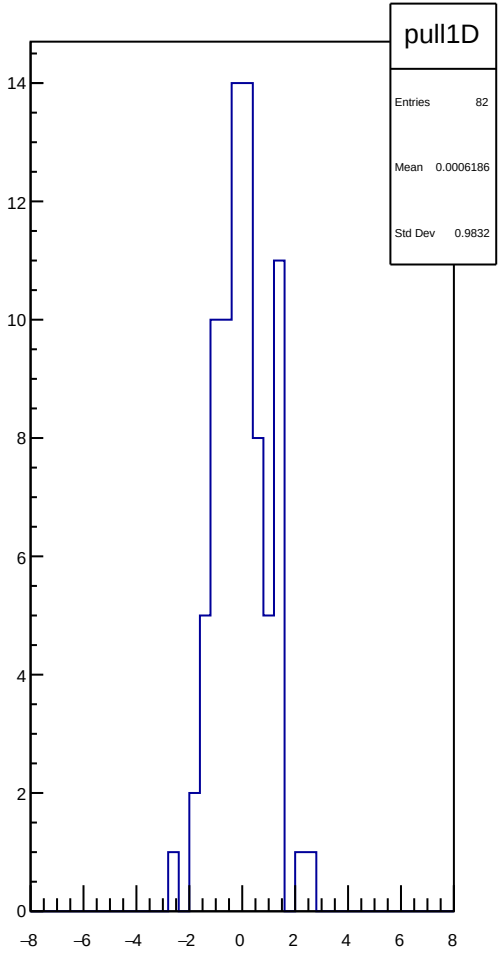

dit_asym_sam2_rms vs run
χ² / ndf 3.105e+04 / 81
p0 435.6 ± 0.3443
800
750
700
650
600
550
500
450
400
350

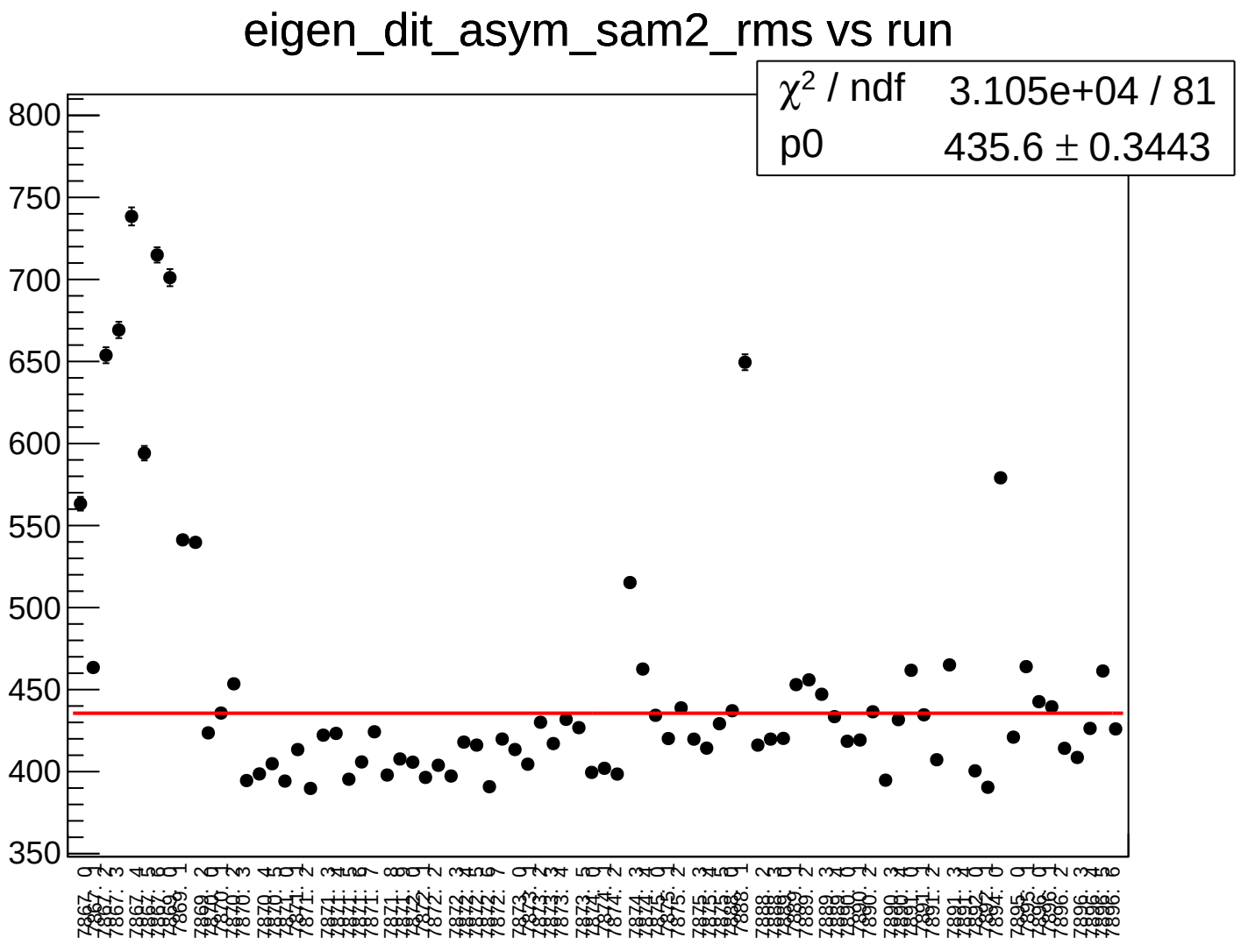

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 67.37 / 81
p0 −1136 ± 6658
pull
Entries 82
Mean −58.94
Std Dev 0

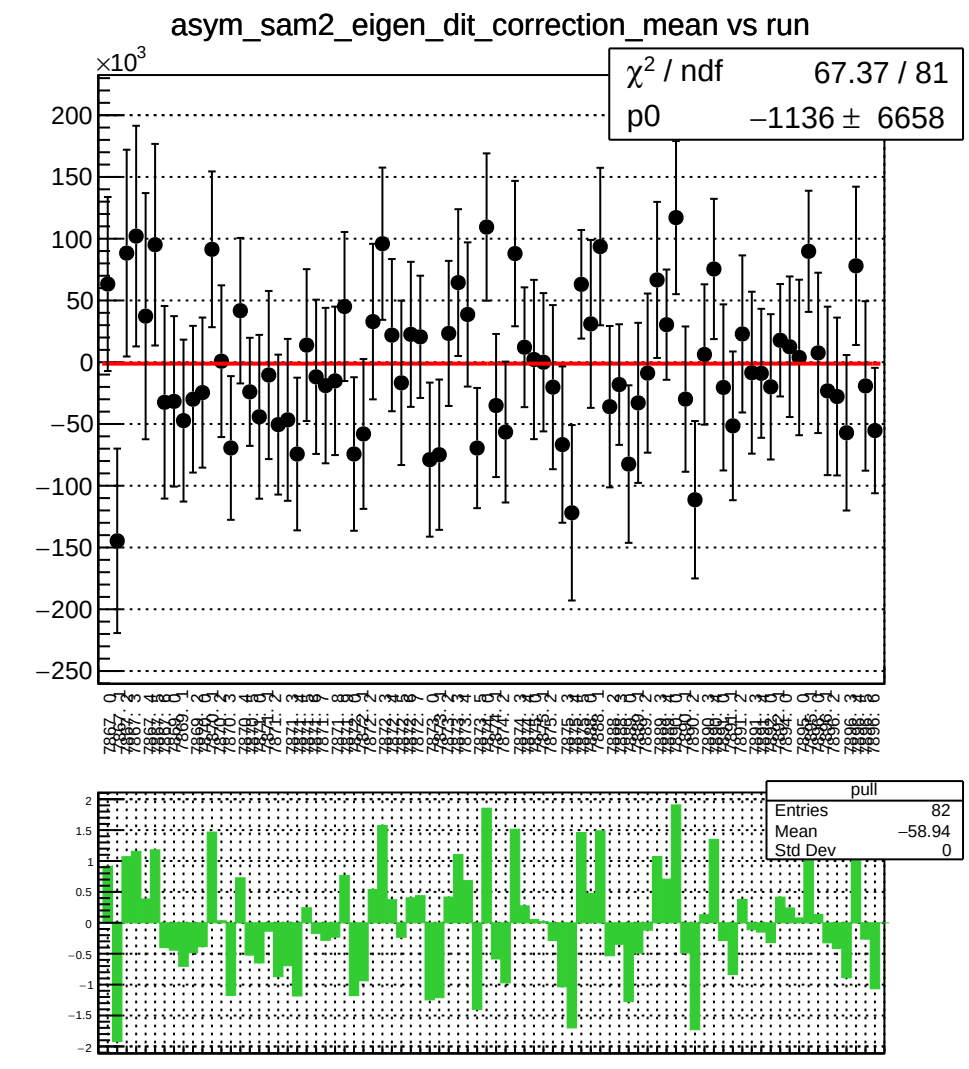

pull1D
Entries 82
Mean −0.007058
Std Dev 0.9064

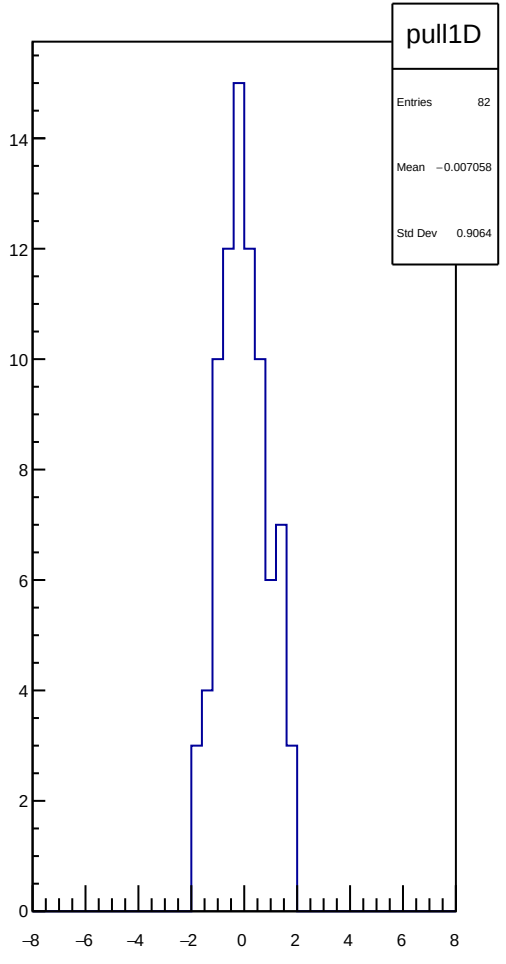

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 81
p0 5991 ± 4.708
9000
8000
7000
6000
5000

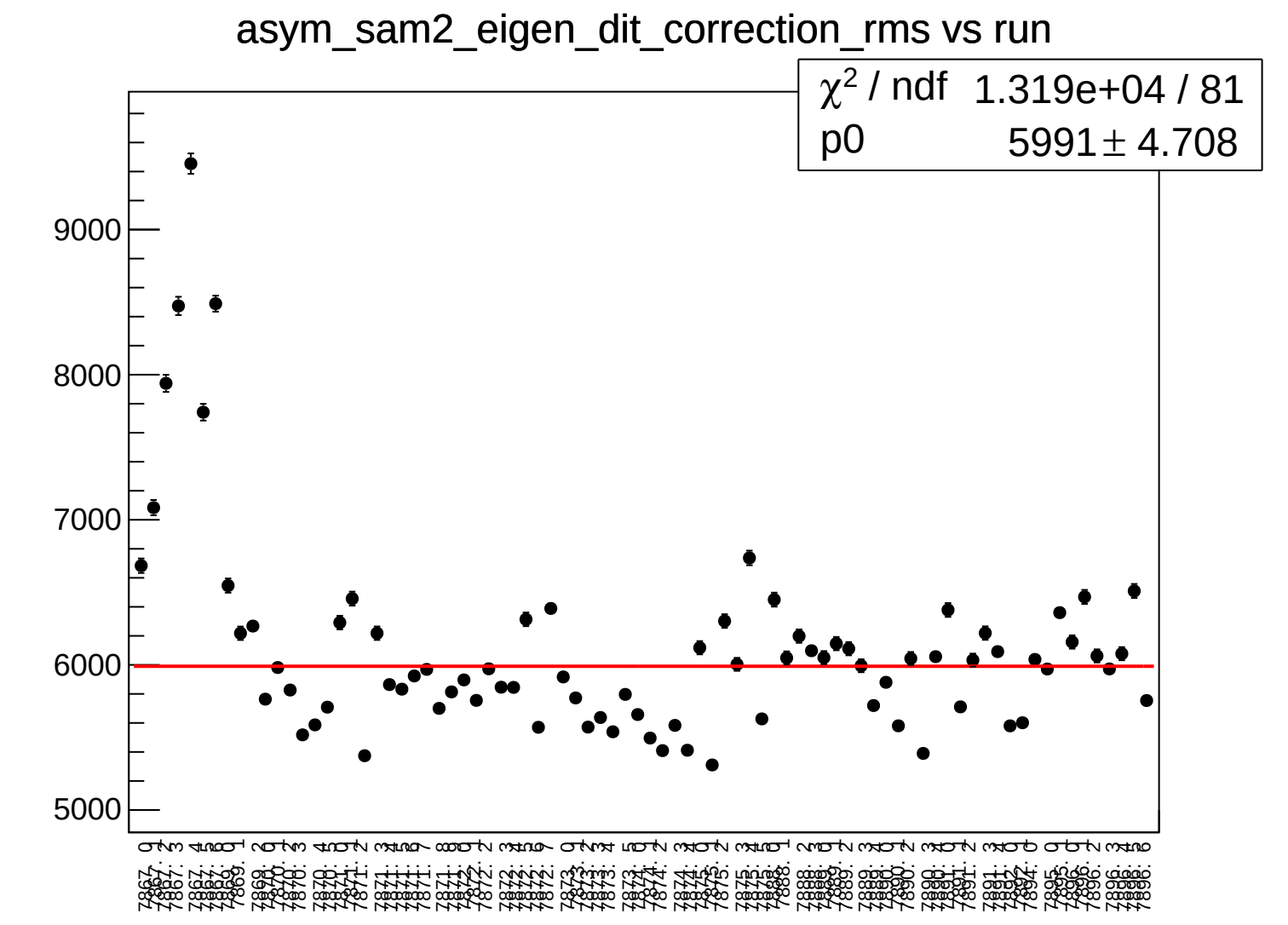

eigen_dit_asym_sam2_mean vs run
χ² / ndf 79.26 / 81
p0 243.2 ± 486.9
pull
Entries 82
Mean −2209
Std Dev 0

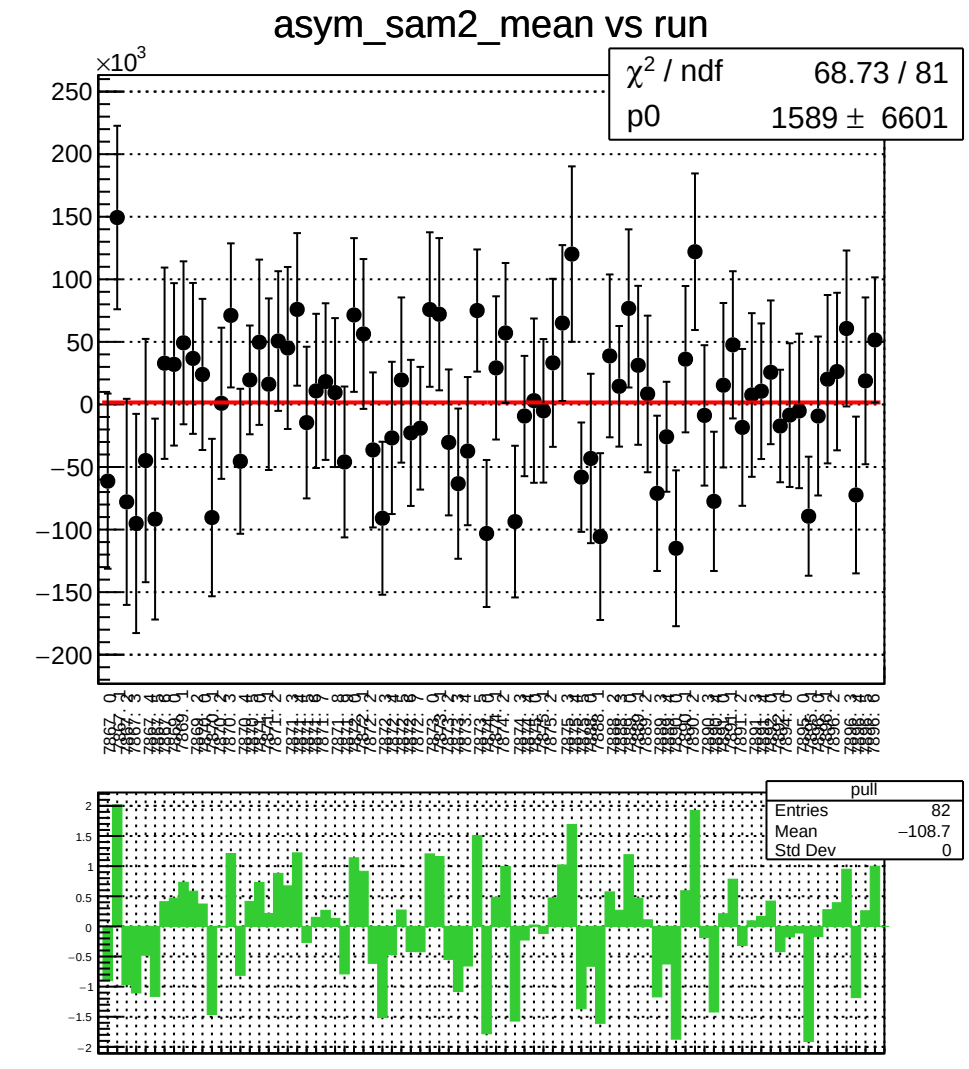

pull1D
Entries 82
Mean 0.0006186
Std Dev 0.9832

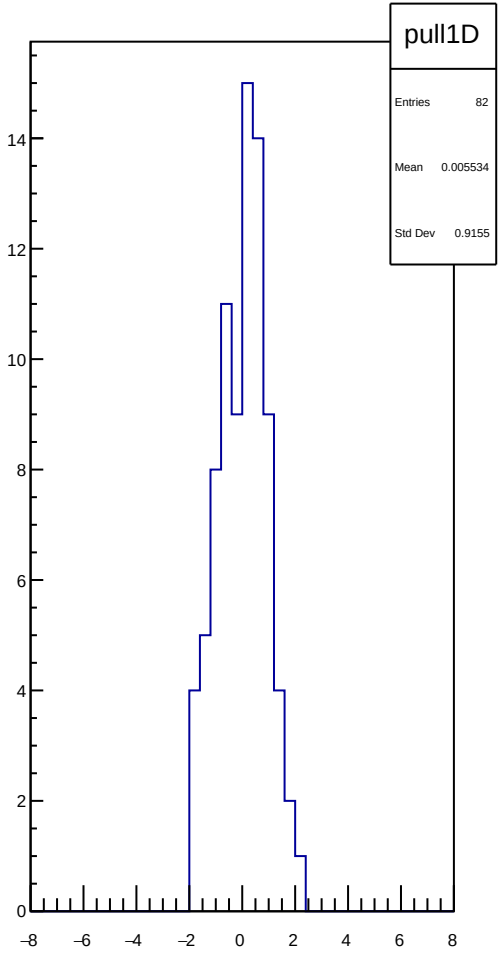

eigen_dit_asym_sam2_rms vs run
χ^2 / ndf 3.105e+04 / 81
p0 435.6 ± 0.3443
800
750
700
650
600
550
500
450
400
350

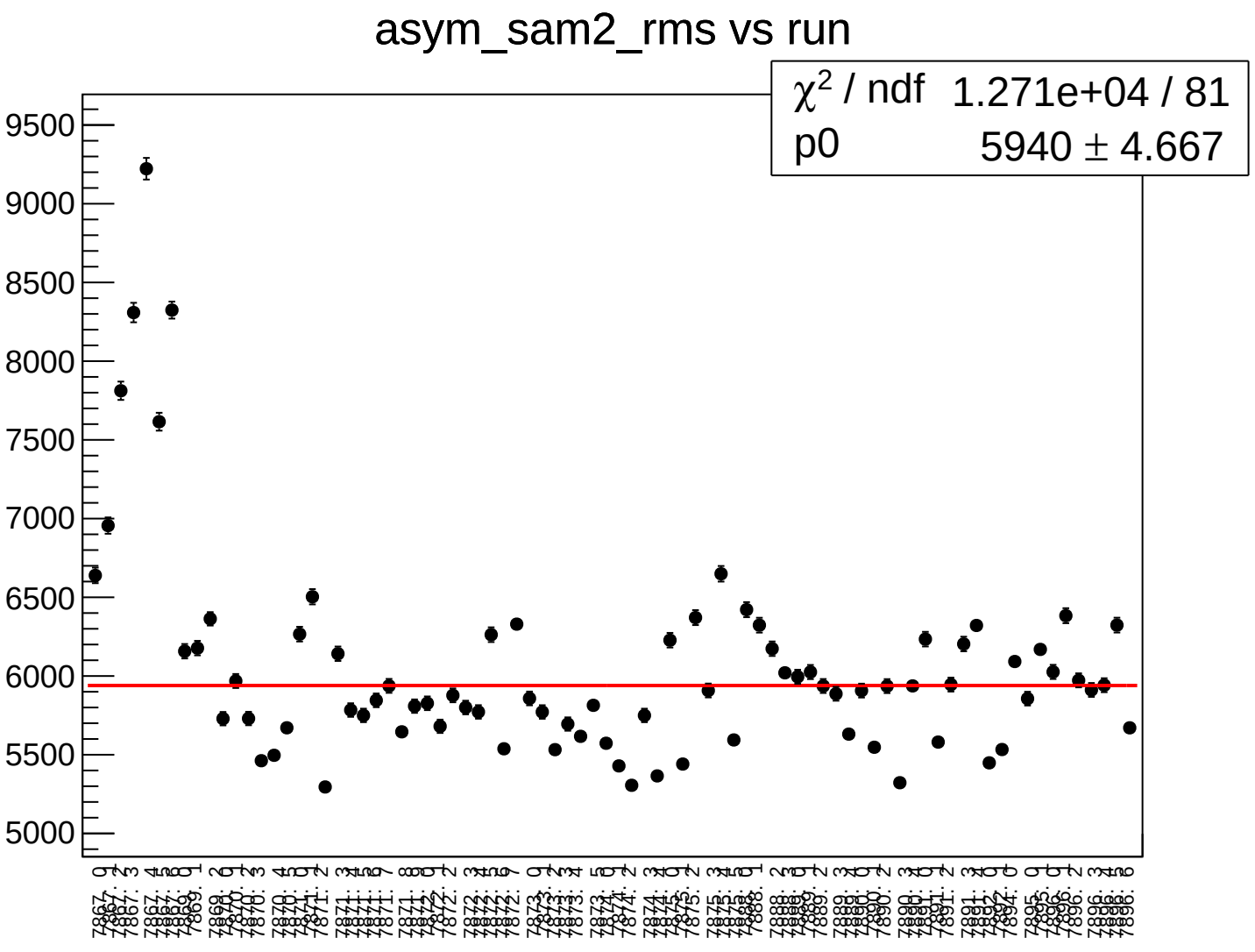

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.37 / 81
p0 −1136 ± 6658
pull
Entries 82
Mean −58.94
Std Dev 0

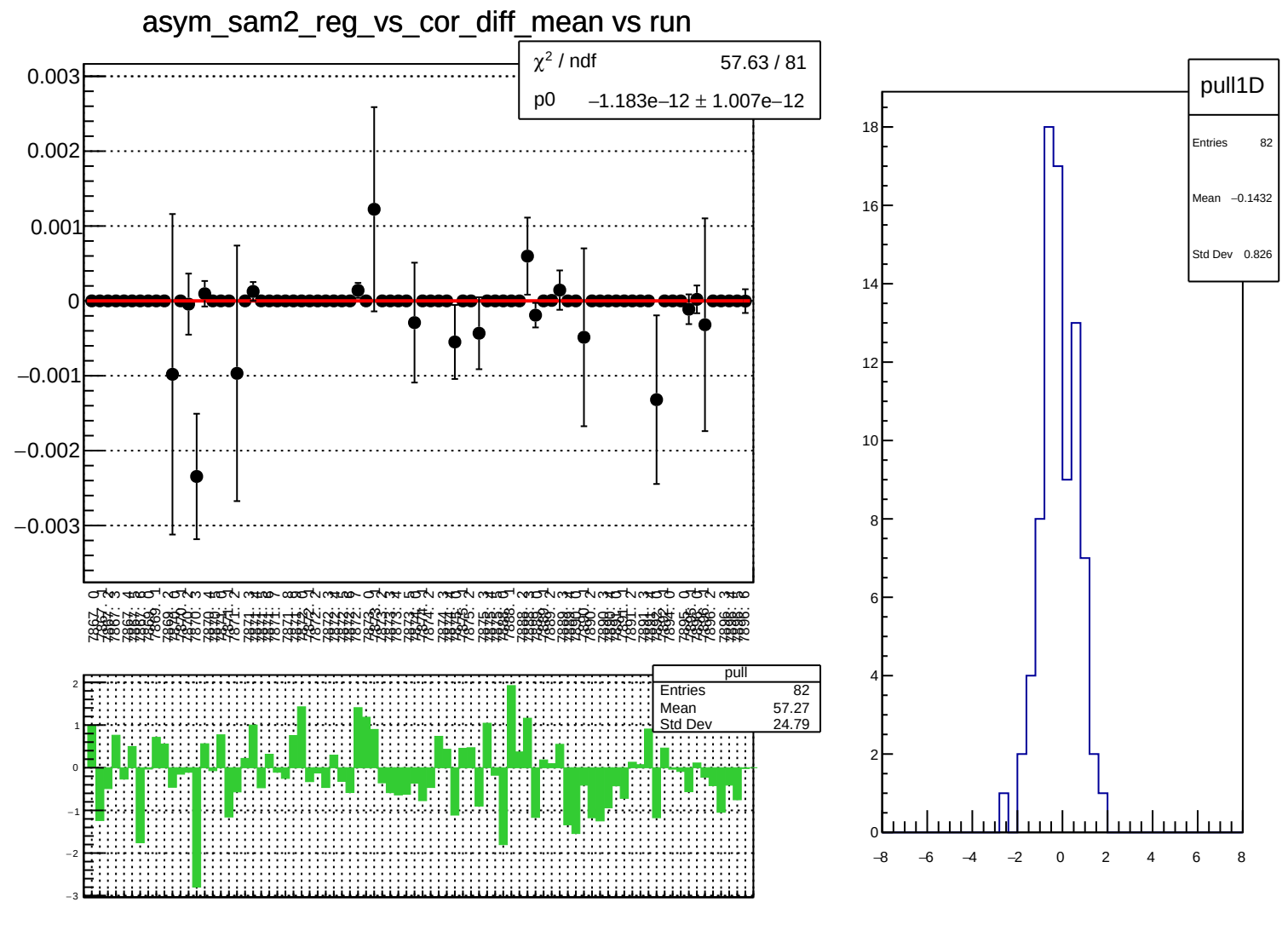

pull1D
Entries 82
Mean −0.007058
Std Dev 0.9064

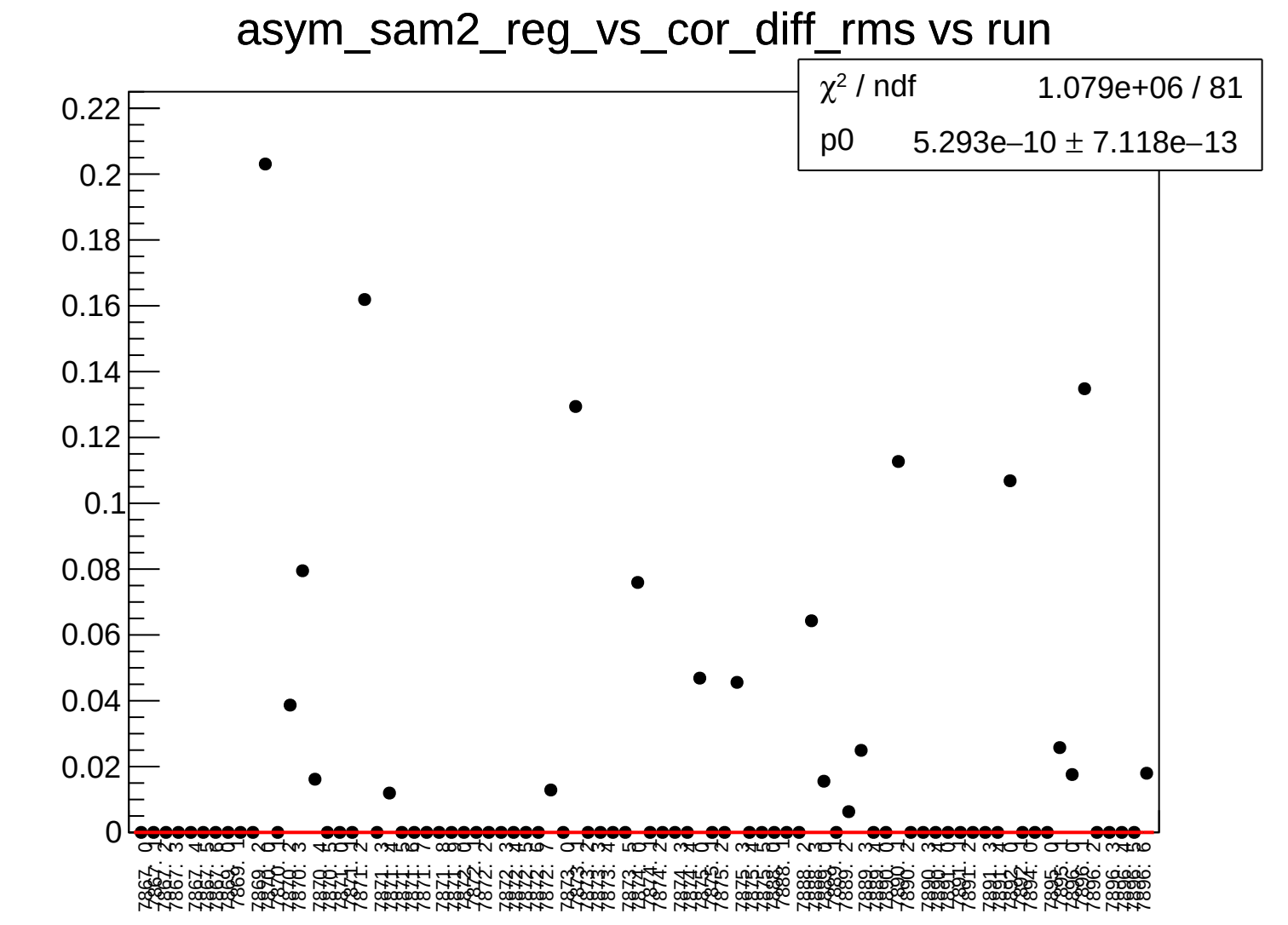

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 81
p0 5991 ± 4.708
9000
8000
7000
6000
5000

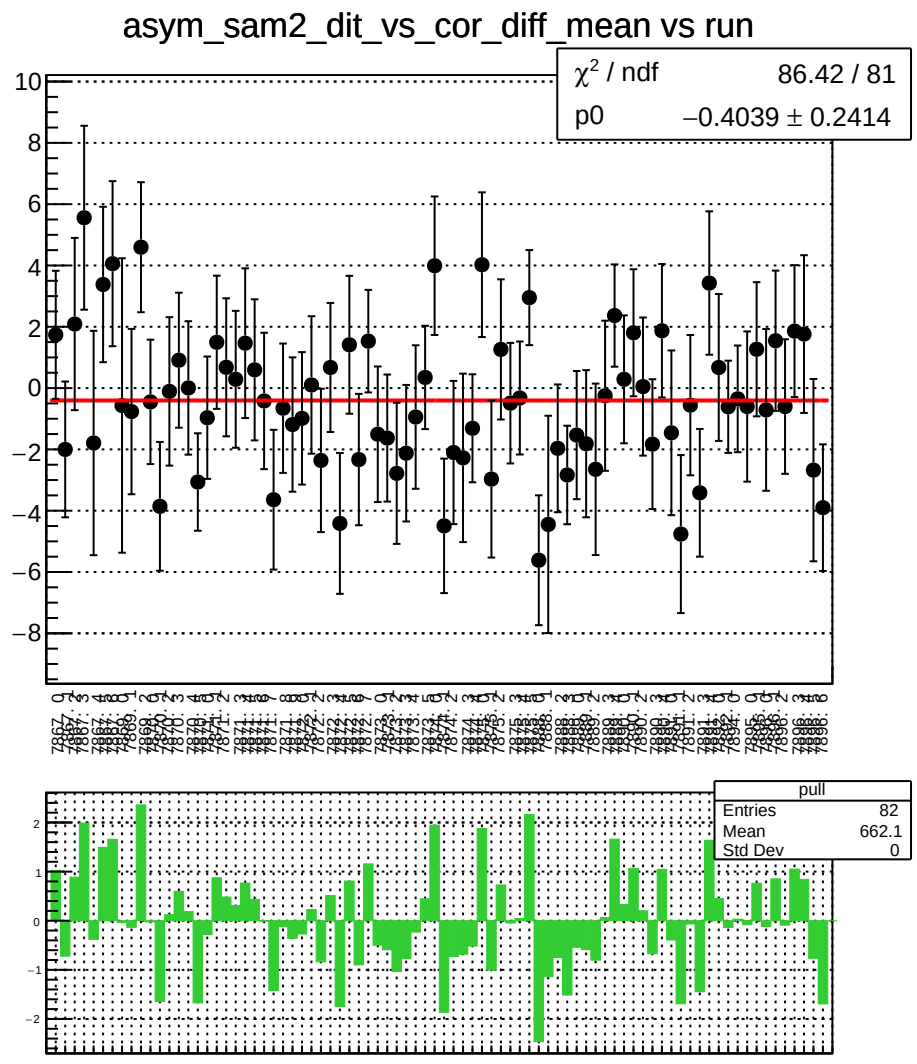

asym_sam2_mean vs run
×10^3
χ^2 / ndf 68.73 / 81
p0 1589 ± 6601
pull
Entries 82
Mean −108.7
Std Dev 0

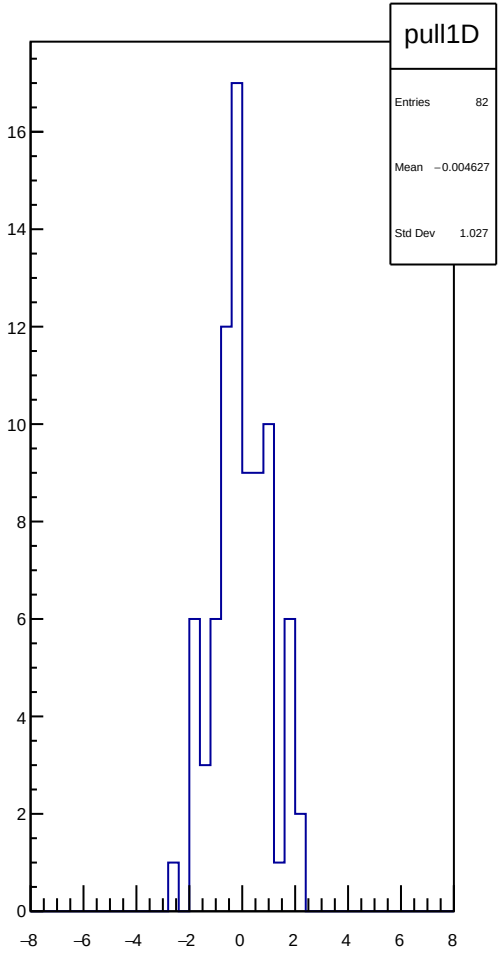

pull1D
Entries 82
Mean 0.005534
Std Dev 0.9155

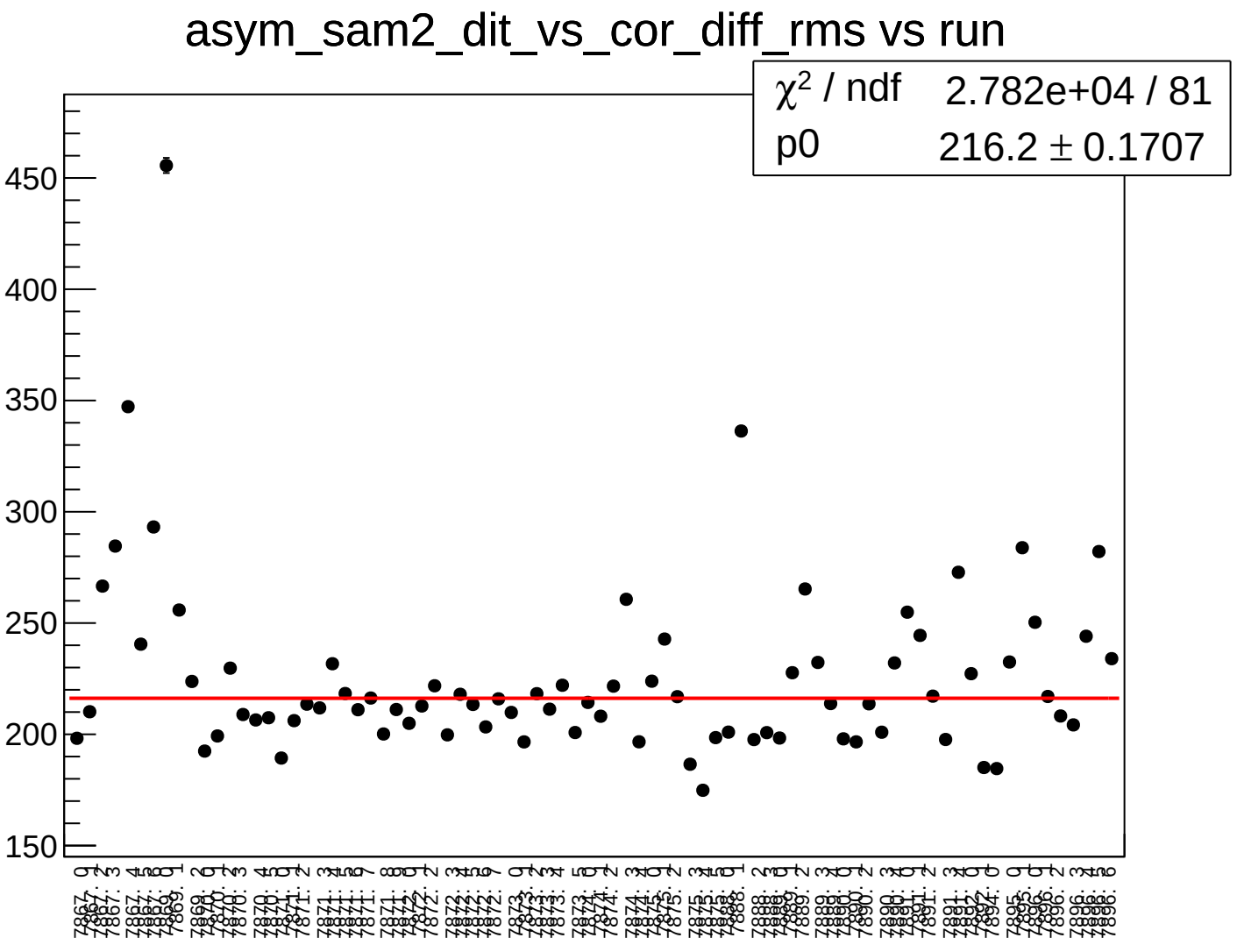

asym_sam2_rms vs run
χ^2 / ndf 1.271e+04 / 81
p0 5940 ± 4.667
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

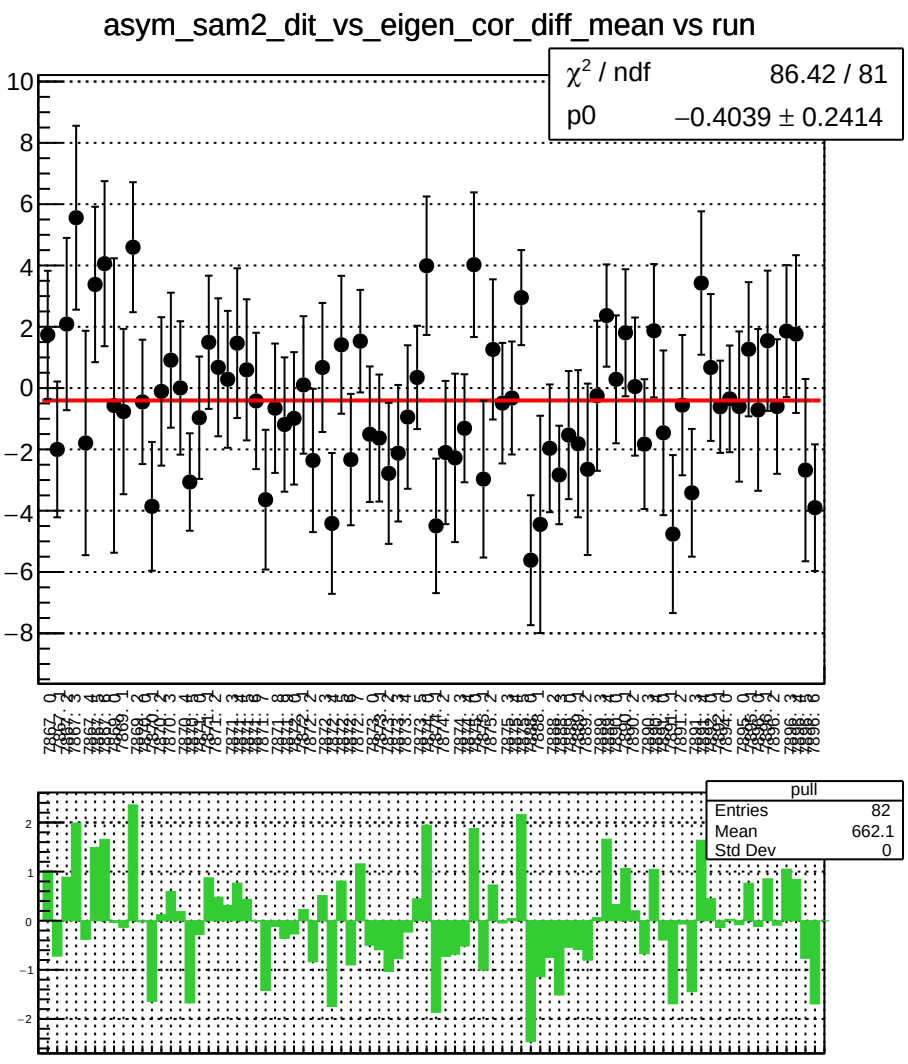

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 57.63 / 81
p0 −1.183e−12 ± 1.007e−12
pull
Entries 82
Mean 57.27
Std Dev 24.79
pull1D
Entries 82
Mean −0.1432
Std Dev 0.826

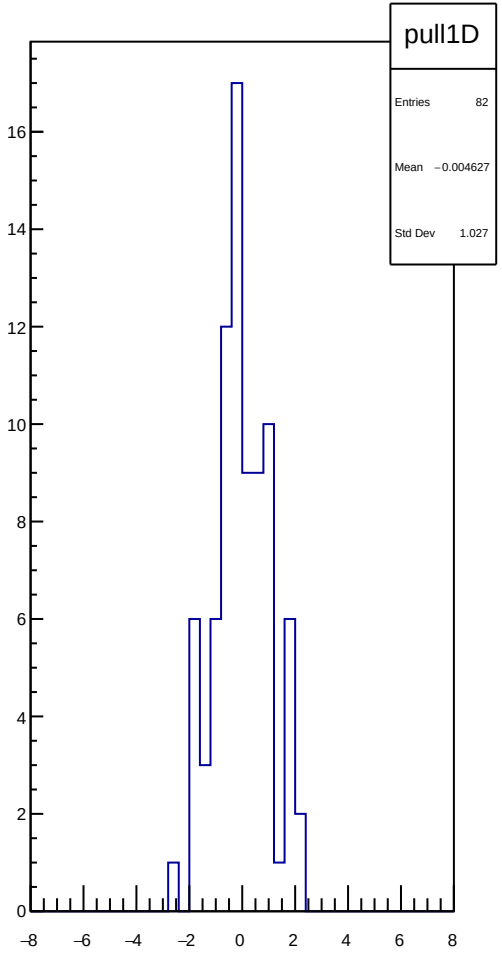

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 81
p0 5.293e−10 ± 7.118e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

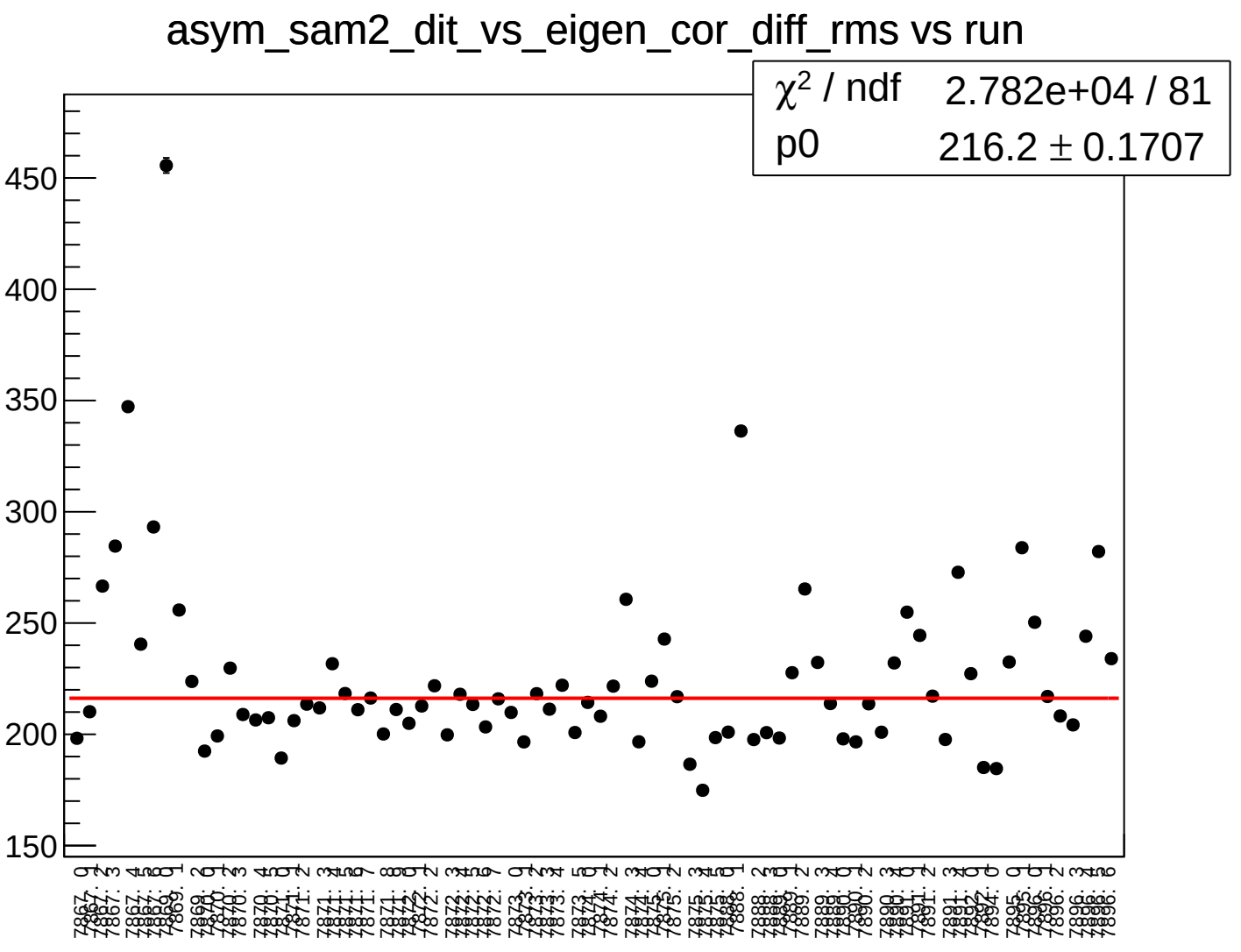

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 86.42 / 81
p0 −0.4039 ± 0.2414
pull
Entries 82
Mean 662.1
Std Dev 0

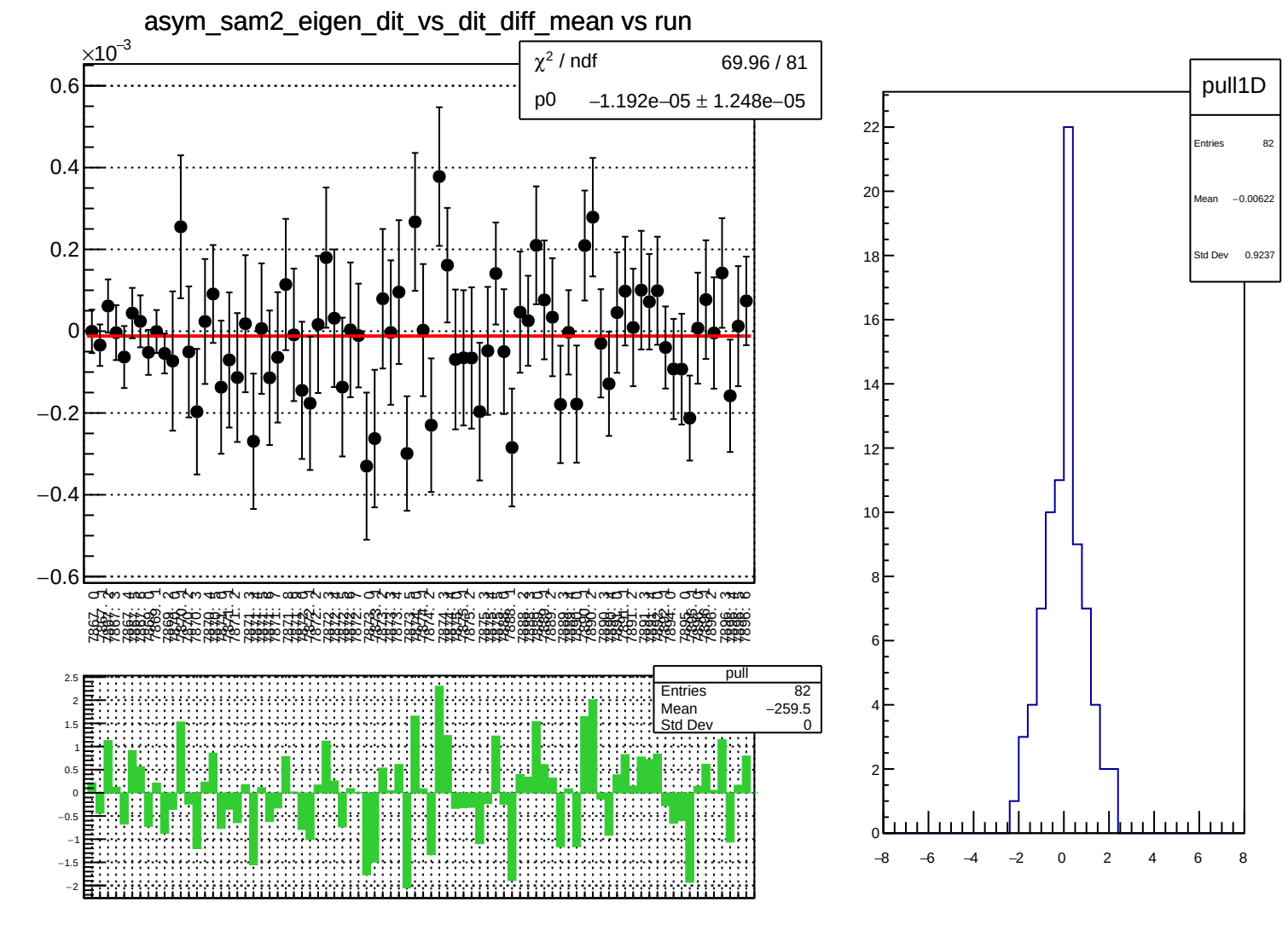

pull1D
Entries 82
Mean −0.004627
Std Dev 1.027

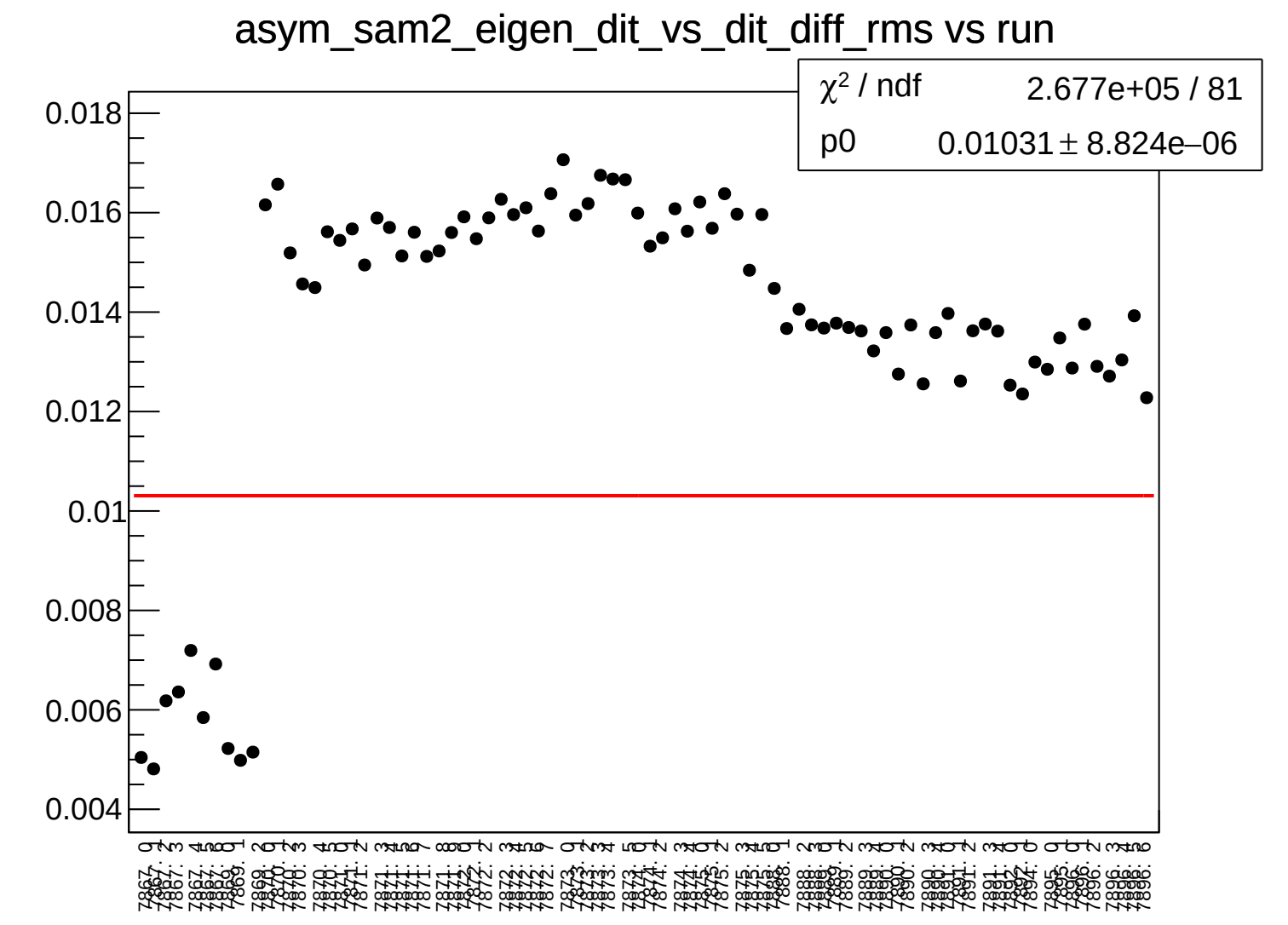

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.782e+04 / 81
p0 216.2 ± 0.1707
450
400
350
300
250
200
150

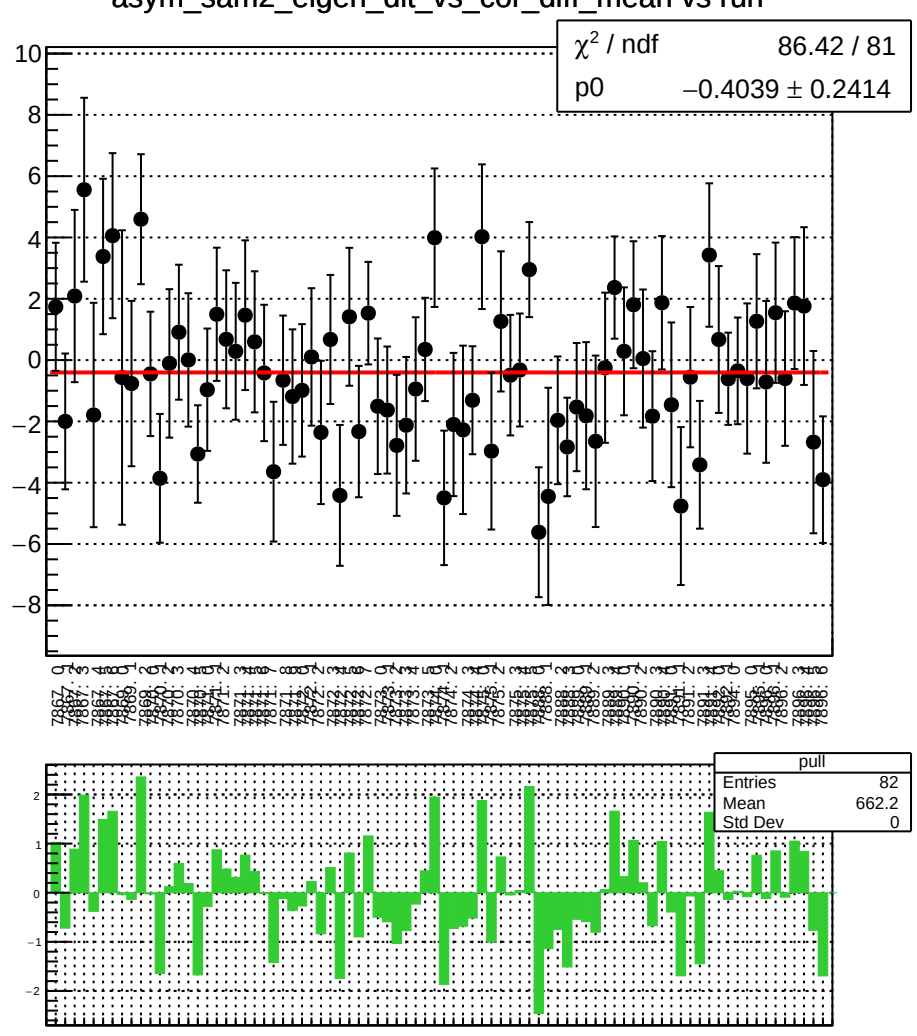

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.42 / 81
p0 −0.4039 ± 0.2414
pull
Entries 82
Mean 662.1
Std Dev 0

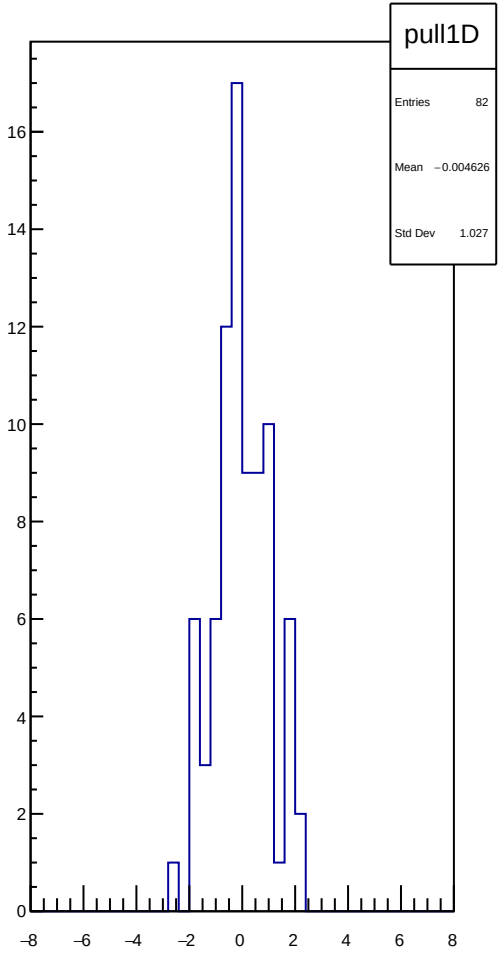

pull1D
Entries 82
Mean −0.004627
Std Dev 1.027

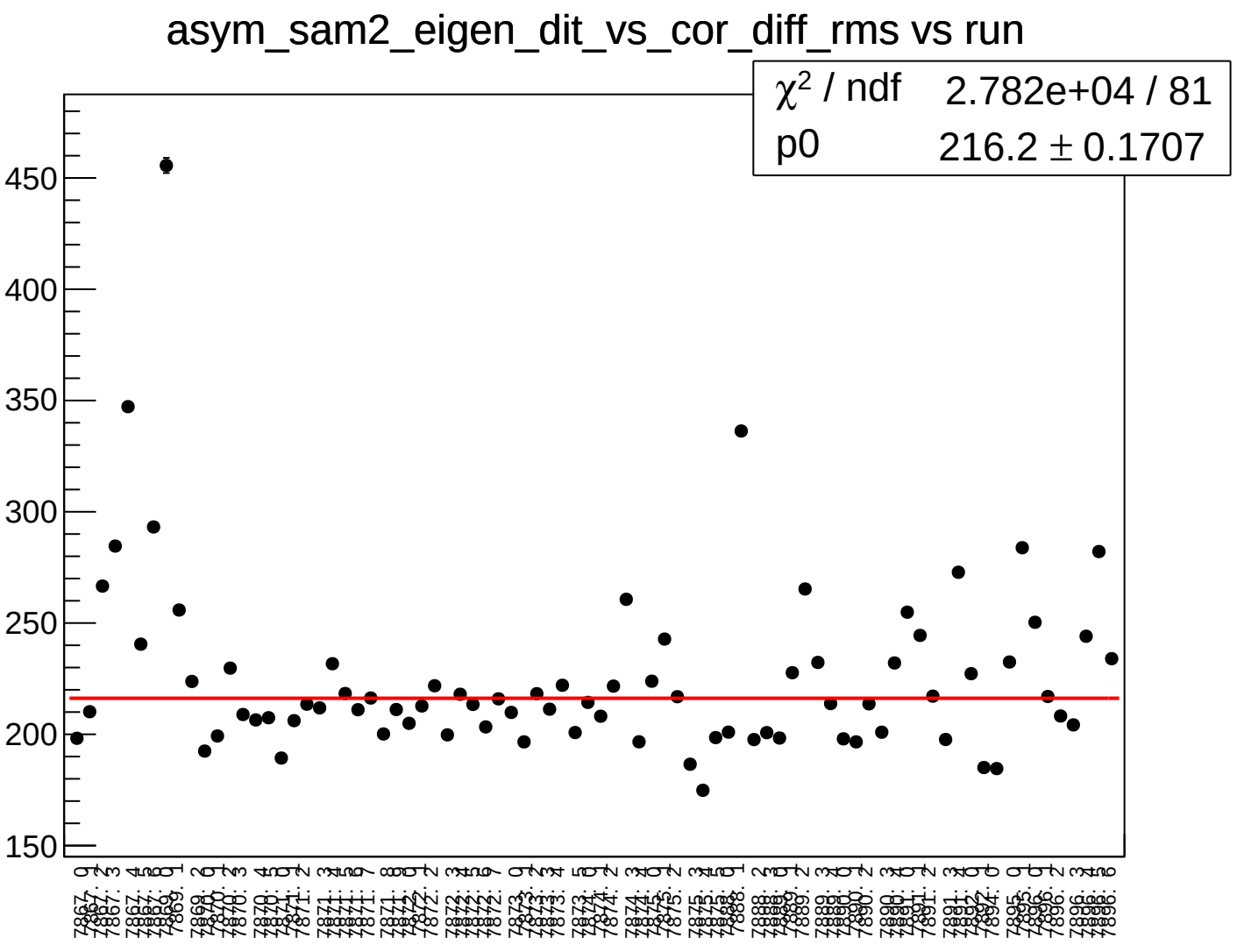

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.782e+04 / 81
p0 216.2 ± 0.1707
450
400
350
300
250
200
150

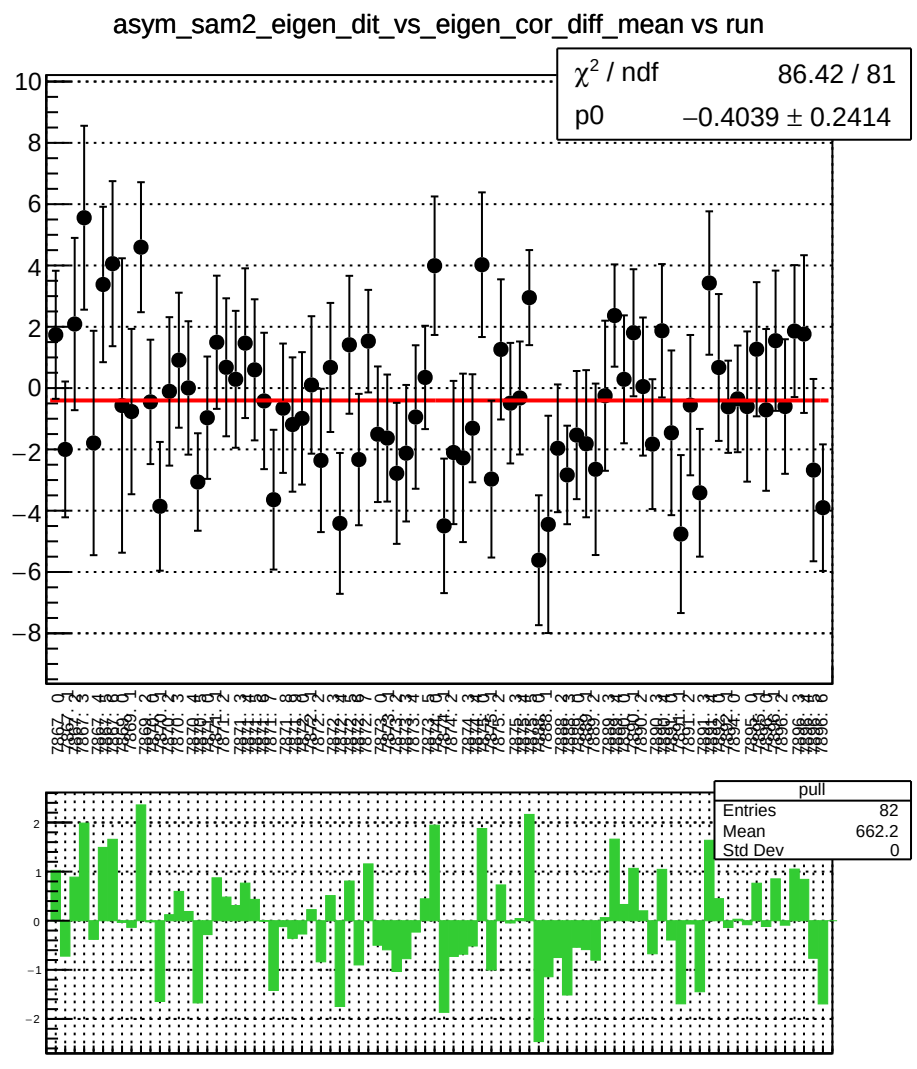

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.96 / 81
p0 −1.192e−05 ± 1.248e−05
pull
Entries 82
Mean −259.5
Std Dev 0
pull1D
Entries 82
Mean −0.00622
Std Dev 0.9237

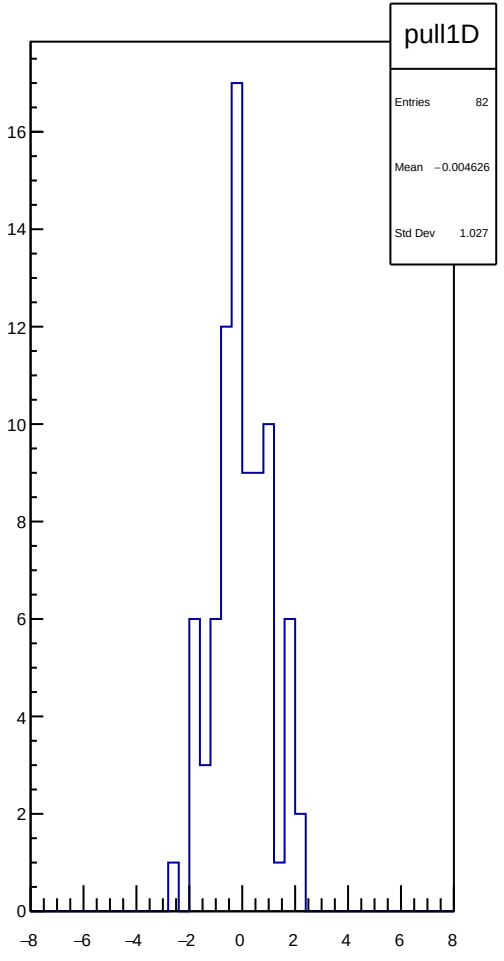

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.677e+05 / 81
p0 0.01031 ± 8.824e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

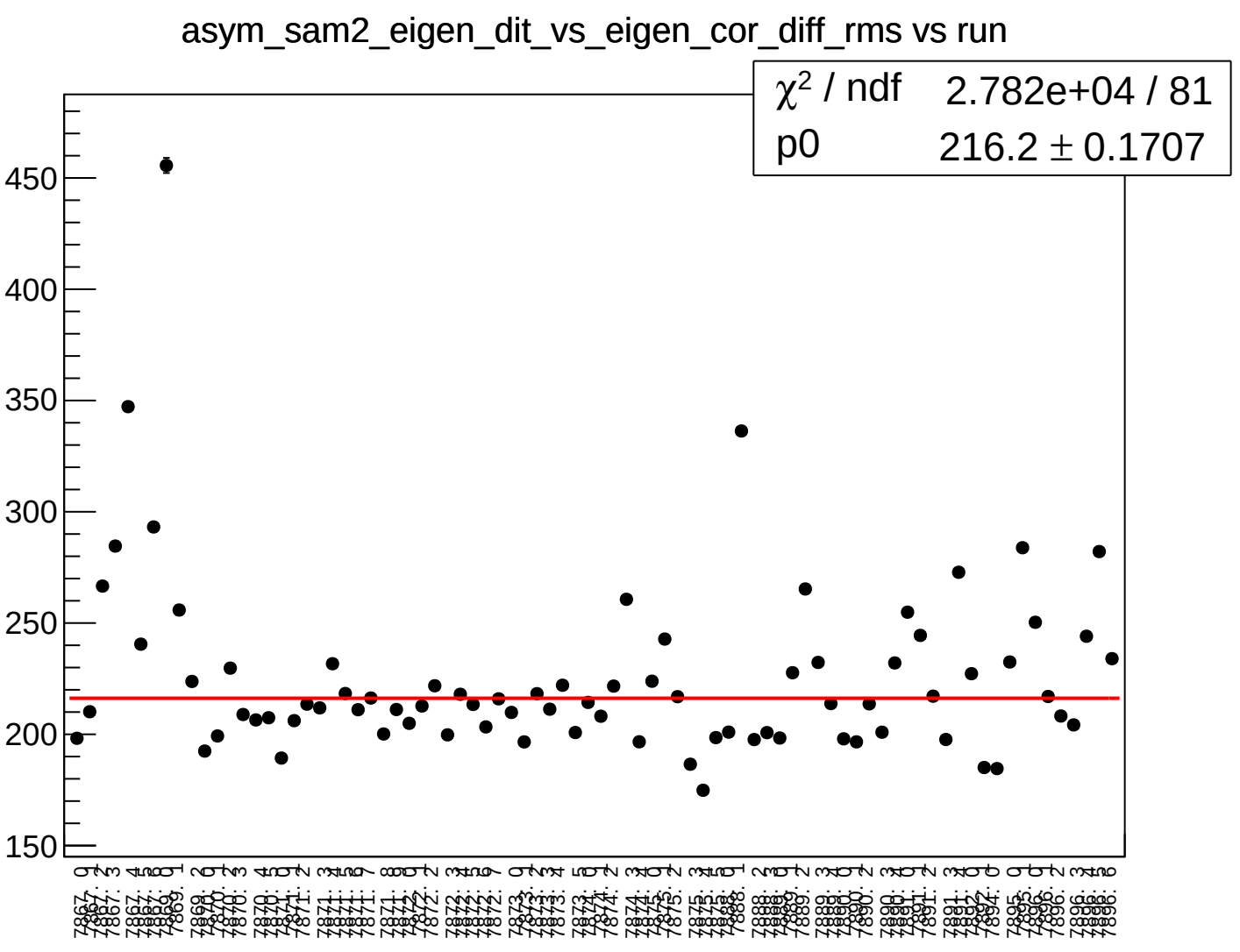

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.42 / 81
p0 −0.4039 ± 0.2414
pull
Entries 82
Mean 662.2
Std Dev 0

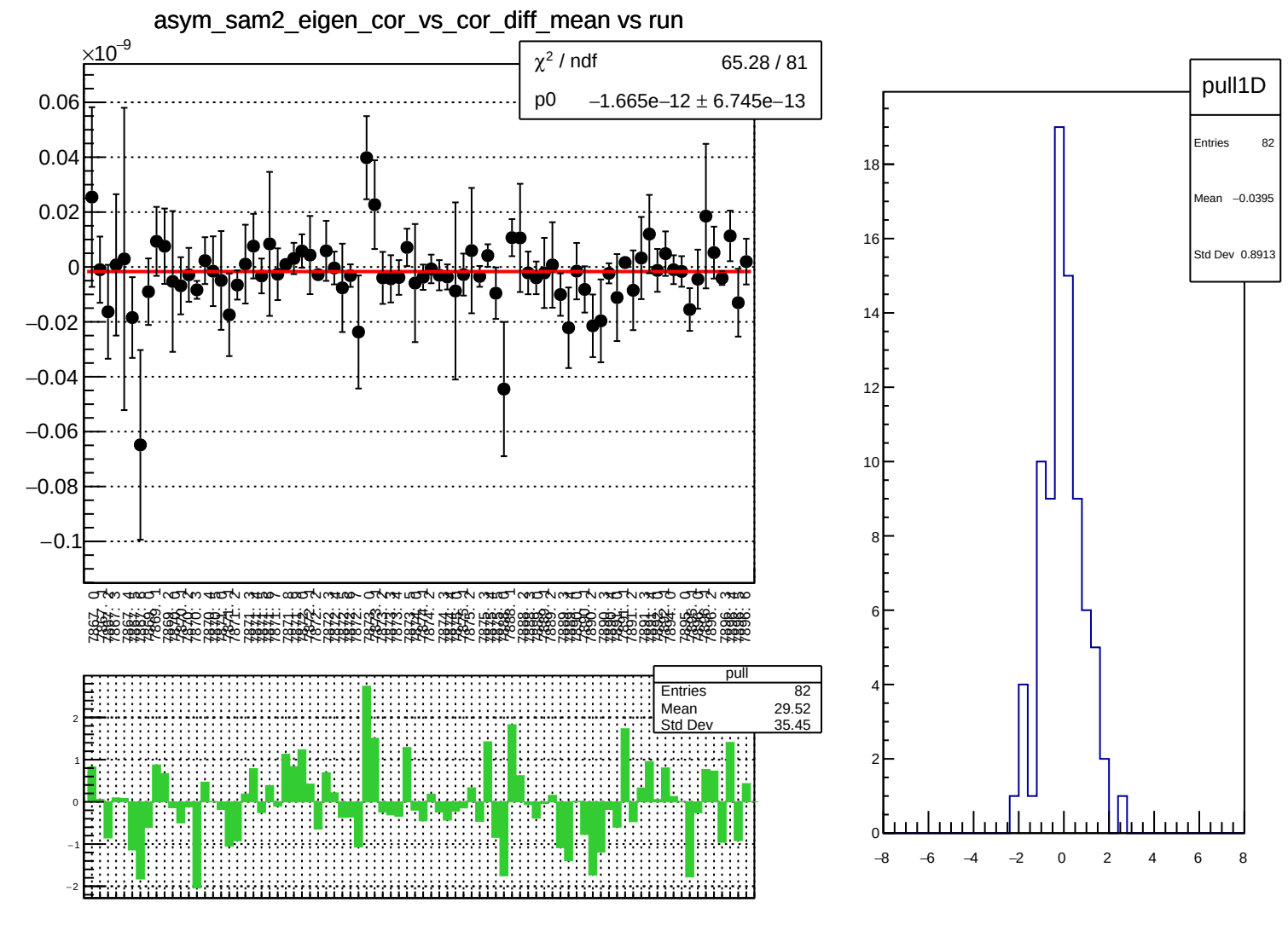

pull1D
Entries 82
Mean −0.004626
Std Dev 1.027

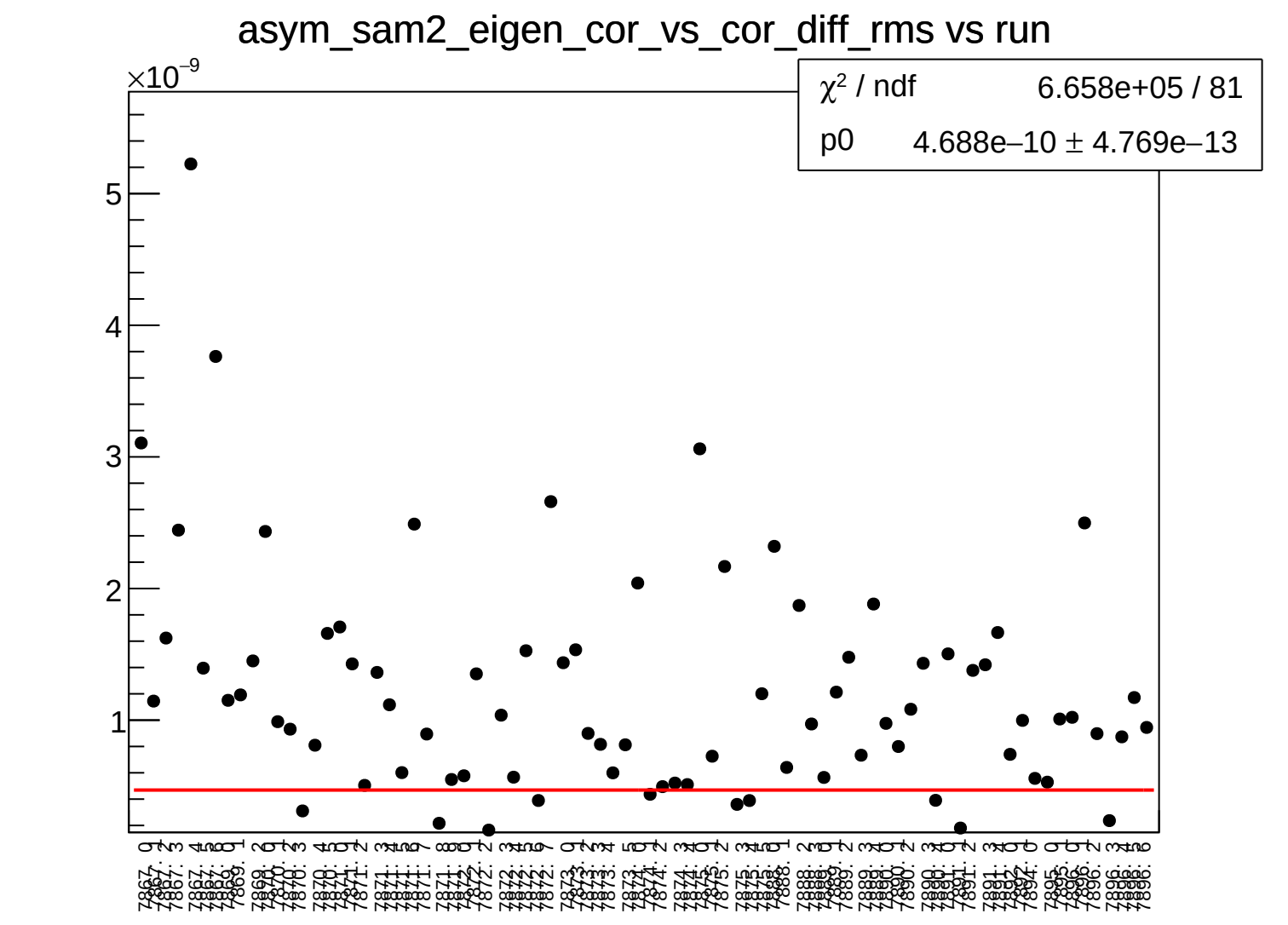

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.782e+04 / 81
p0 216.2 ± 0.1707
450
400
350
300
250
200
150

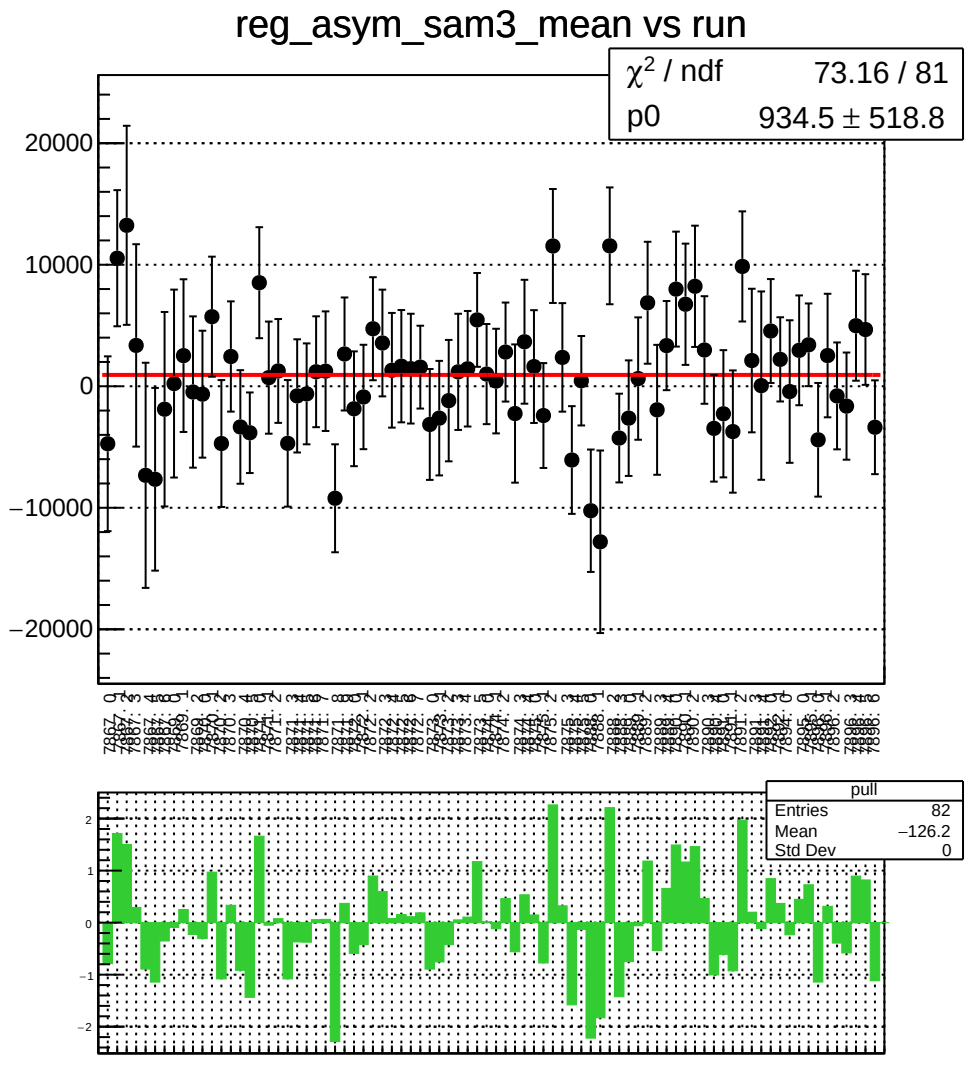

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.42 / 81
p0 −0.4039 ± 0.2414
pull
Entries 82
Mean 662.2
Std Dev 0

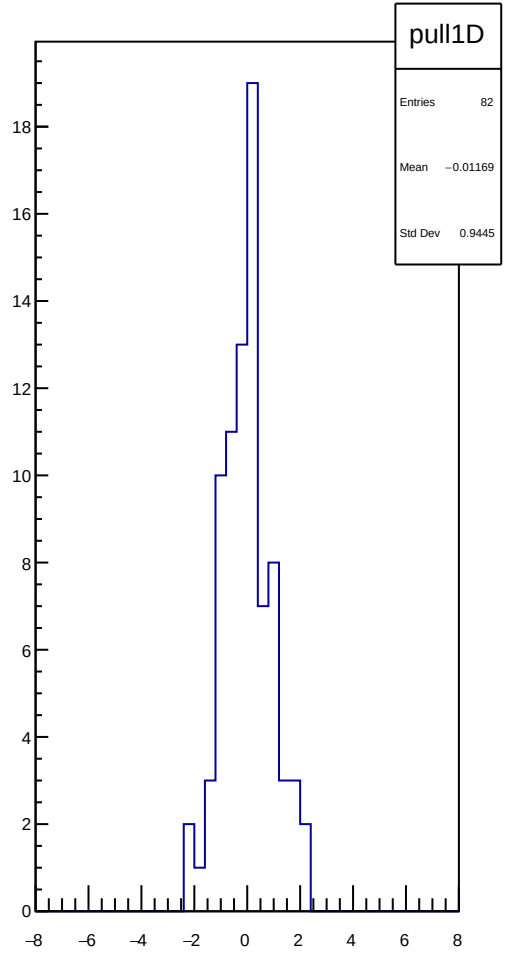

pull1D
Entries 82
Mean −0.004626
Std Dev 1.027

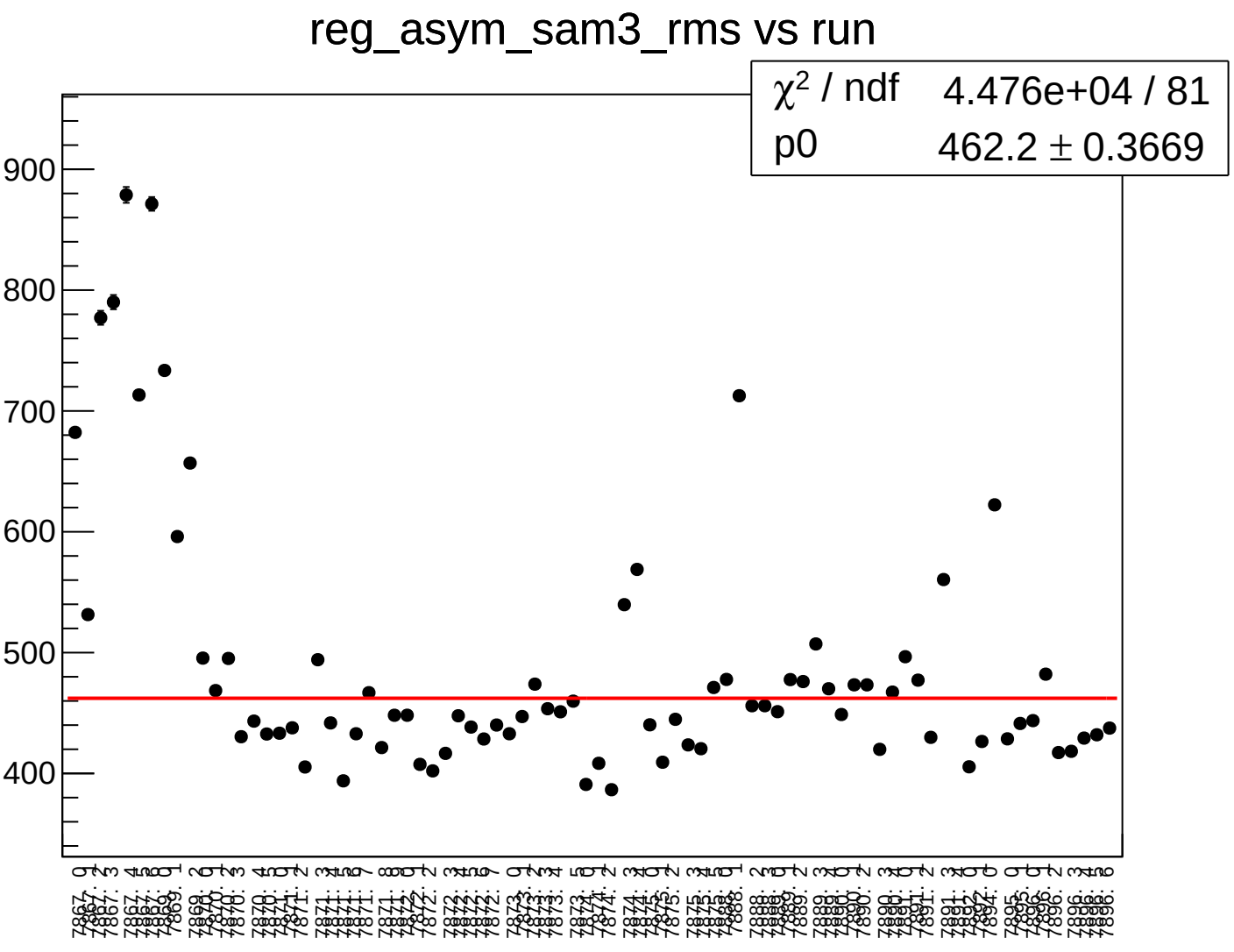

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.782e+04 / 81
p0 216.2 ± 0.1707
450
400
350
300
250
200
150

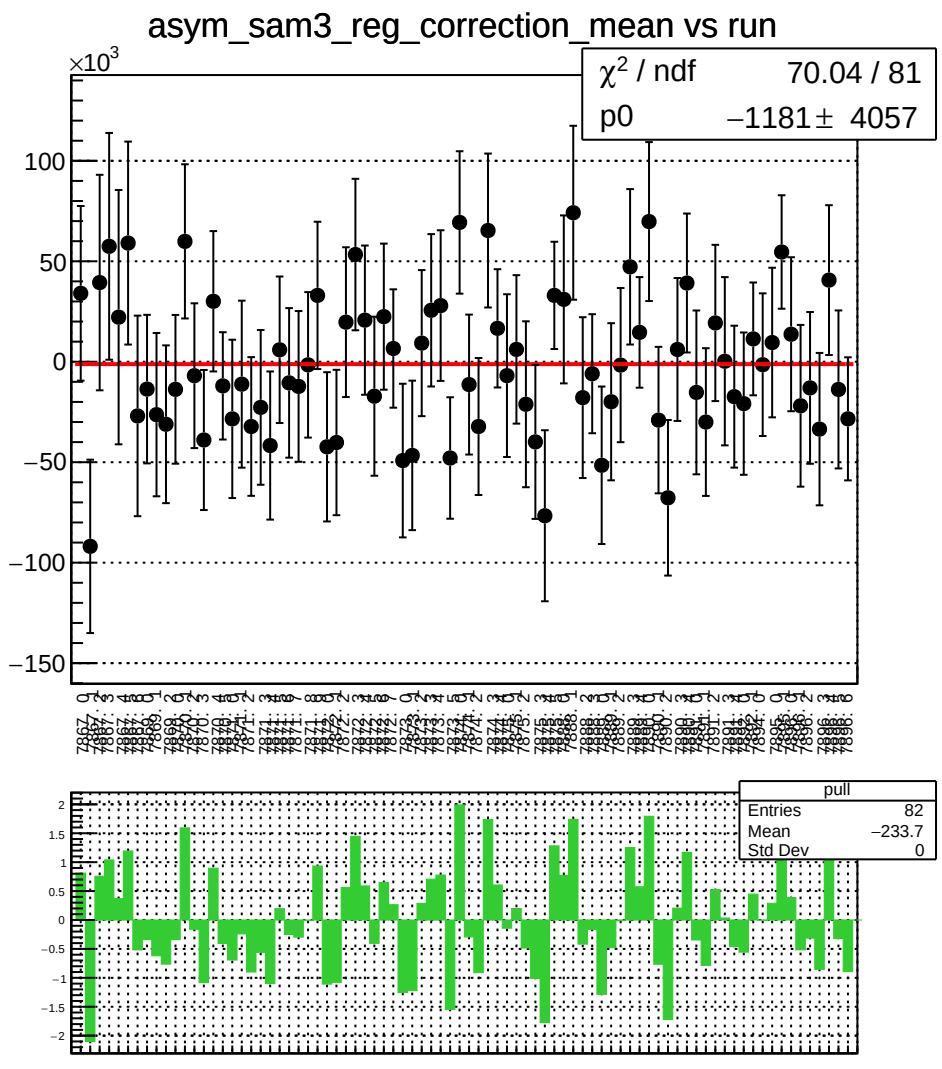

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 65.28 / 81
p0 −1.665e−12 ± 6.745e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 82
Mean 29.52
Std Dev 35.45
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.0395
Std Dev 0.8913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

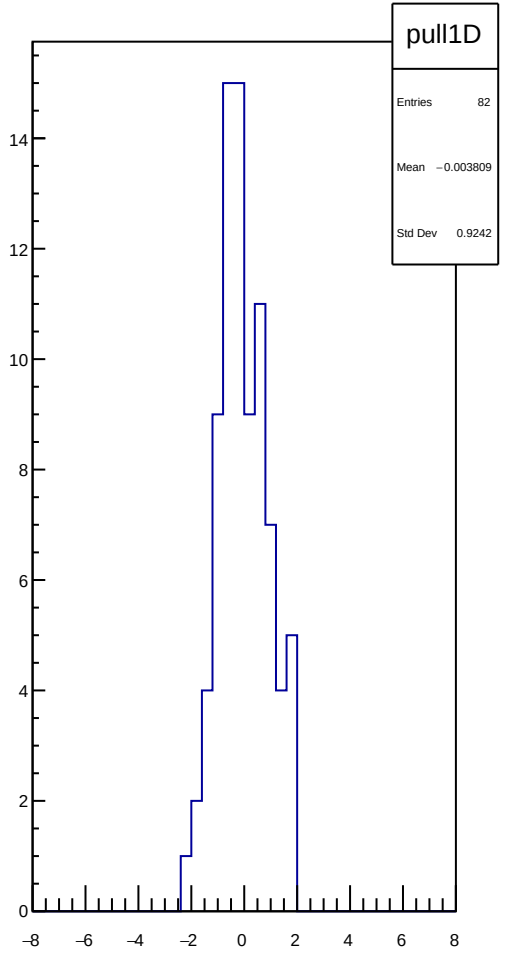

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.658e+05 / 81
p0 4.688e−10 ± 4.769e−13
5
4
3
2
1

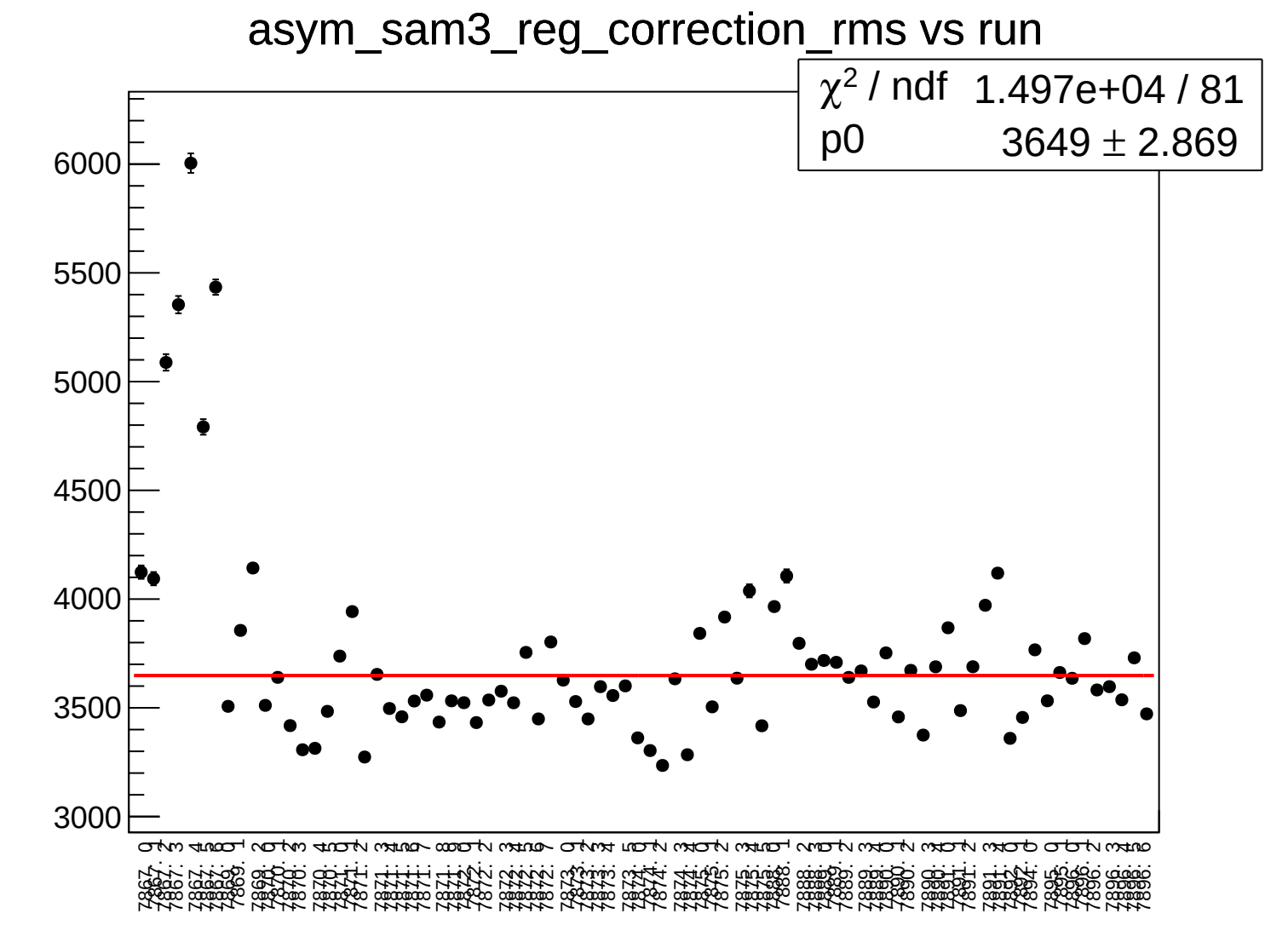

reg_asym_sam3_mean vs run
χ² / ndf 73.16 / 81
p0 934.5 ± 518.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −126.2
Std Dev 0
2
1
0
−1
−2

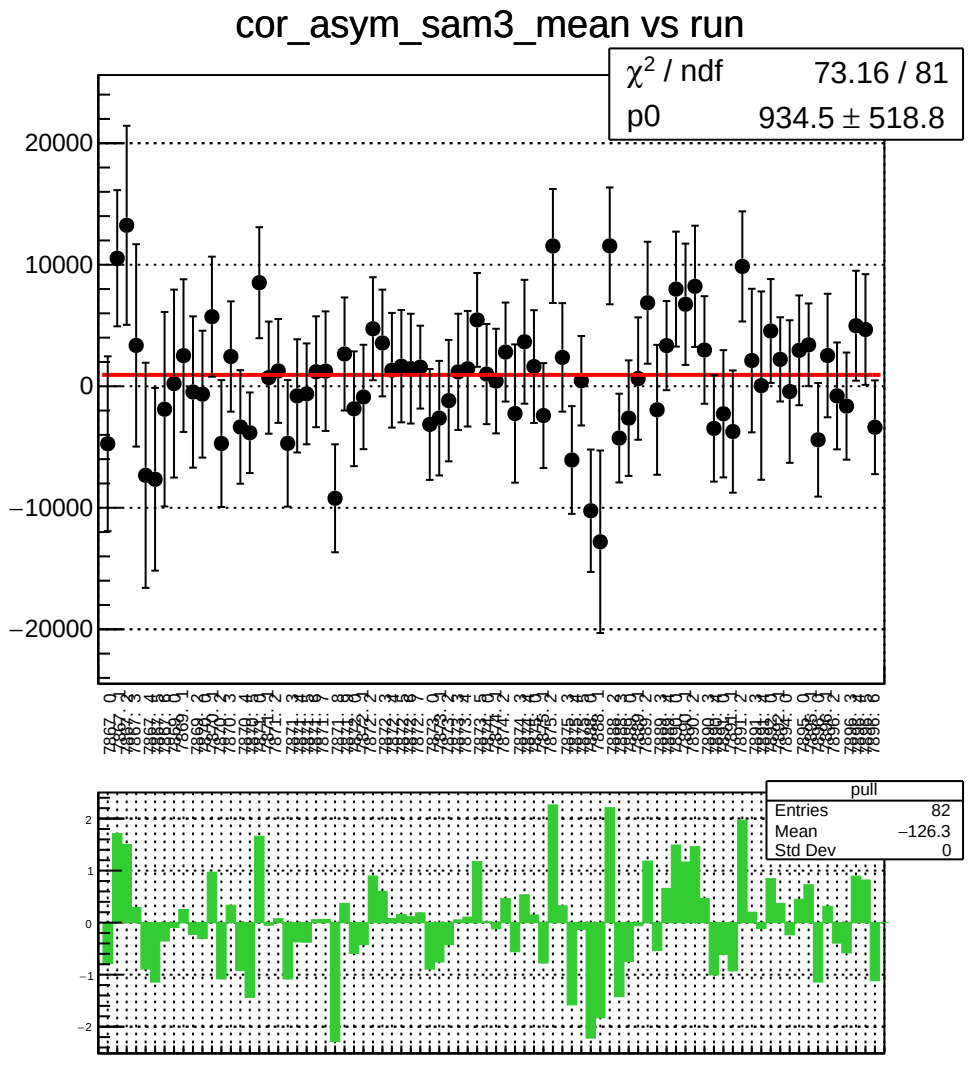

pull1D
Entries 82
Mean −0.01169
Std Dev 0.9445
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

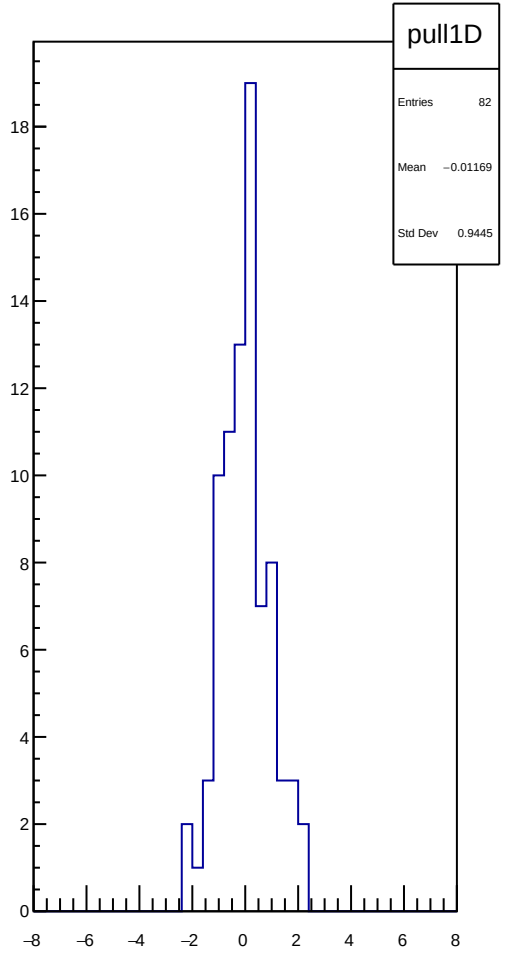

reg_asym_sam3_rms vs run
χ² / ndf 4.476e+04 / 81
p0 462.2 ± 0.3669
900
800
700
600
500
400

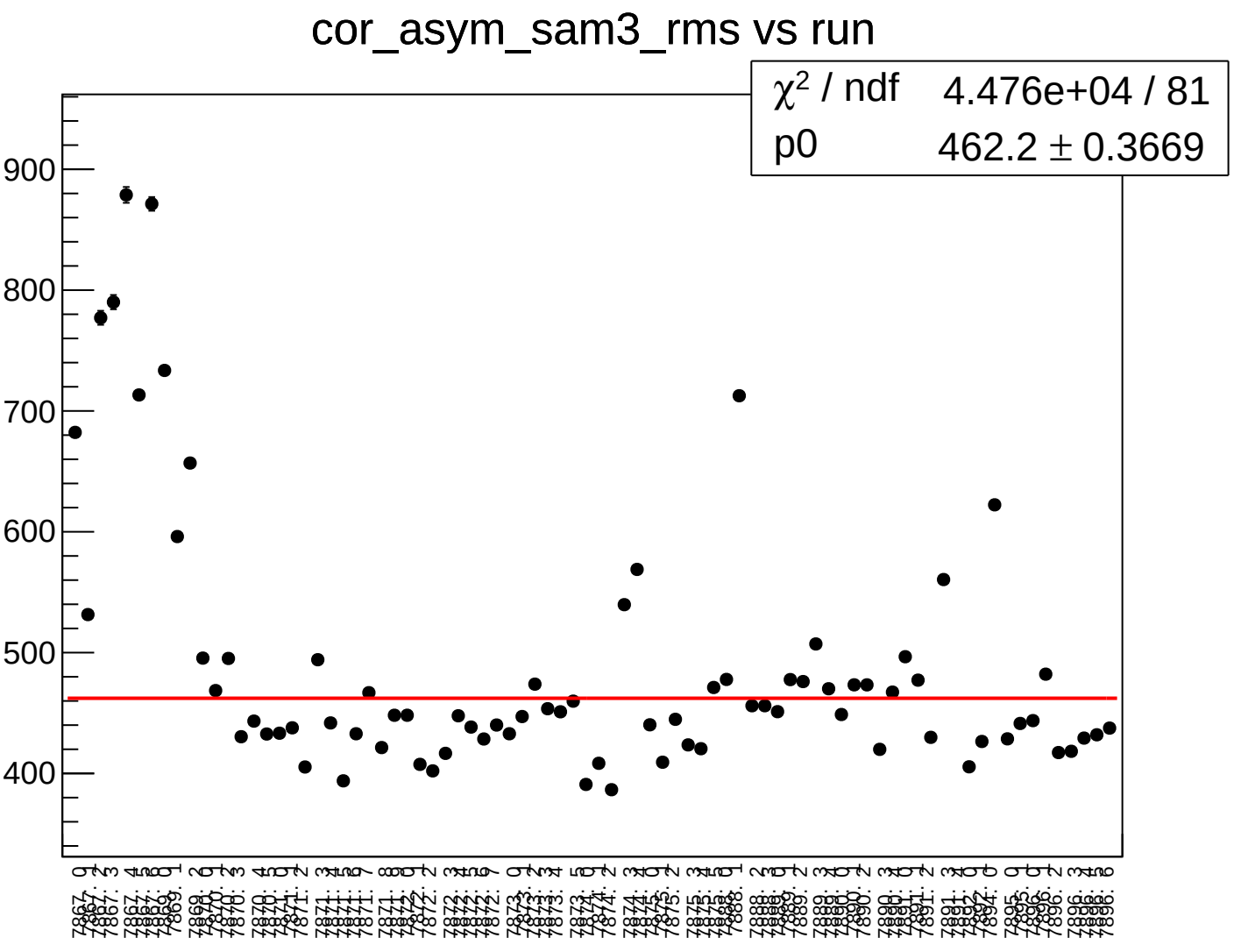

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 70.04 / 81
p0 −1181 ± 4057
100
50
0
−50
−100
−150
pull
Entries 82
Mean −233.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

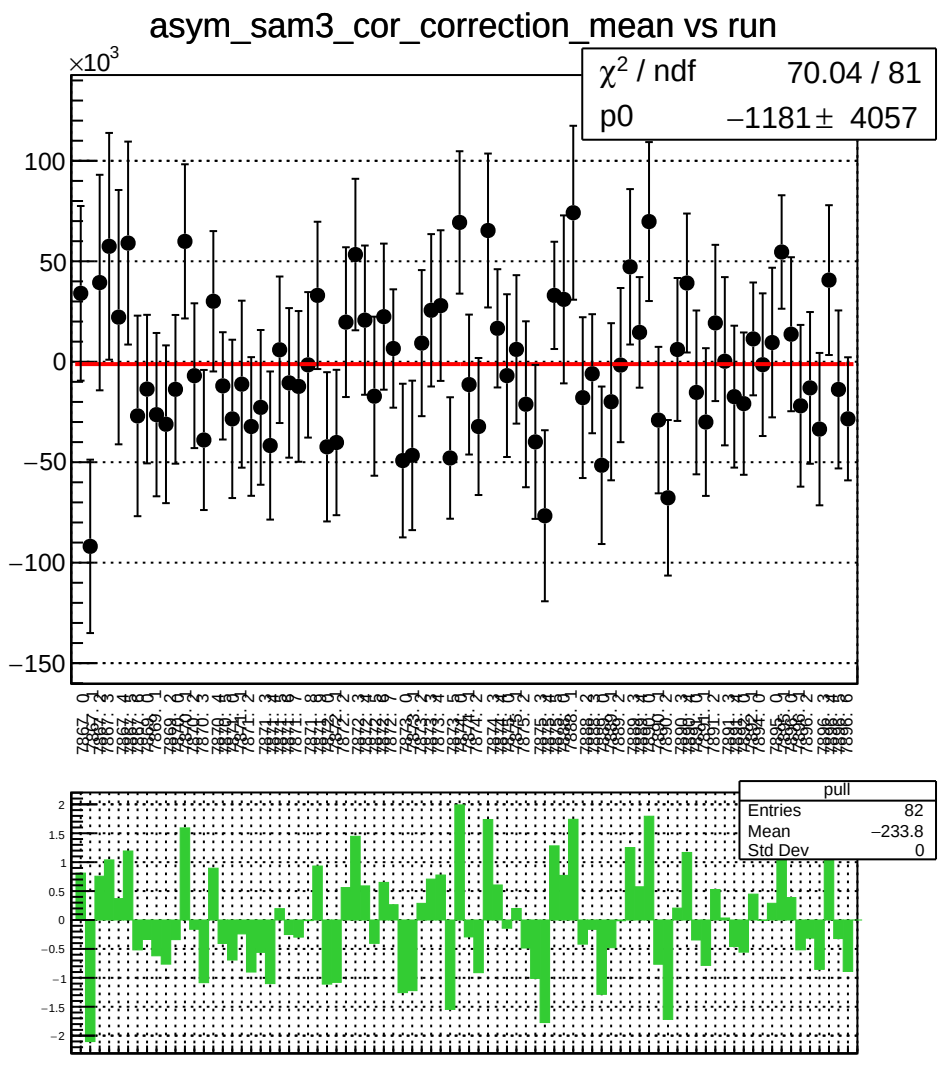

pull1D
Entries 82
Mean −0.003809
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

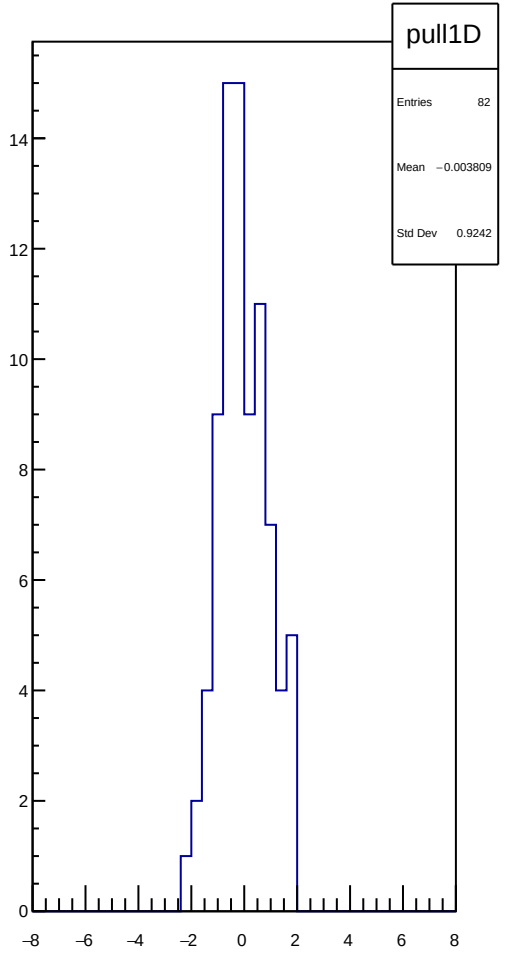

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.497e+04 / 81
p0 3649 ± 2.869
6000
5500
5000
4500
4000
3500
3000


cor_asym_sam3_mean vs run
χ² / ndf 73.16 / 81
p0 934.5 ± 518.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −126.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.01169
Std Dev 0.9445
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 4.476e+04 / 81
p0 462.2 ± 0.3669
900
800
700
600
500
400


asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 70.04 / 81
p0 −1181 ± 4057
100
50
0
−50
−100
−150
pull
Entries 82
Mean −233.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.003809
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
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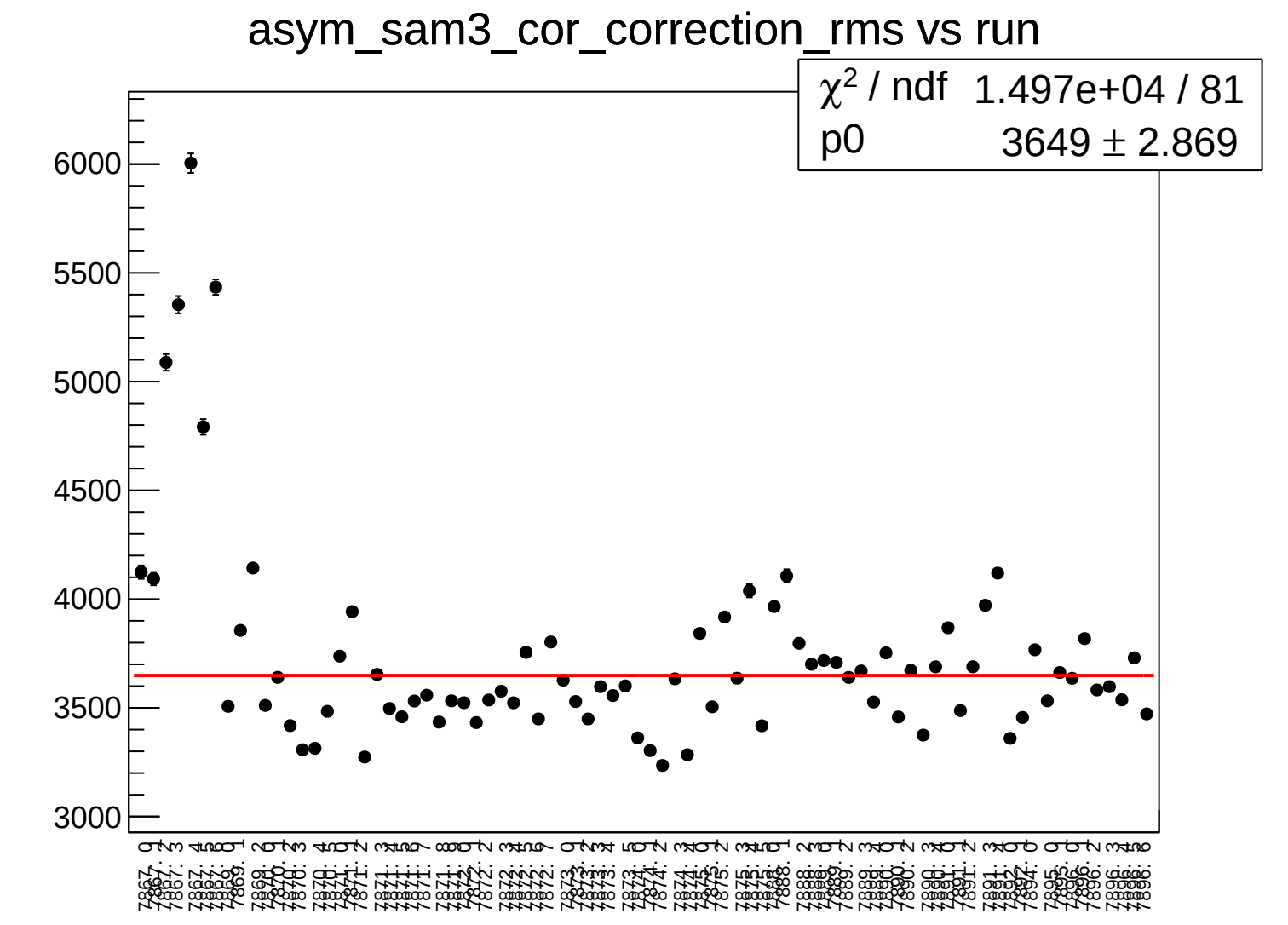
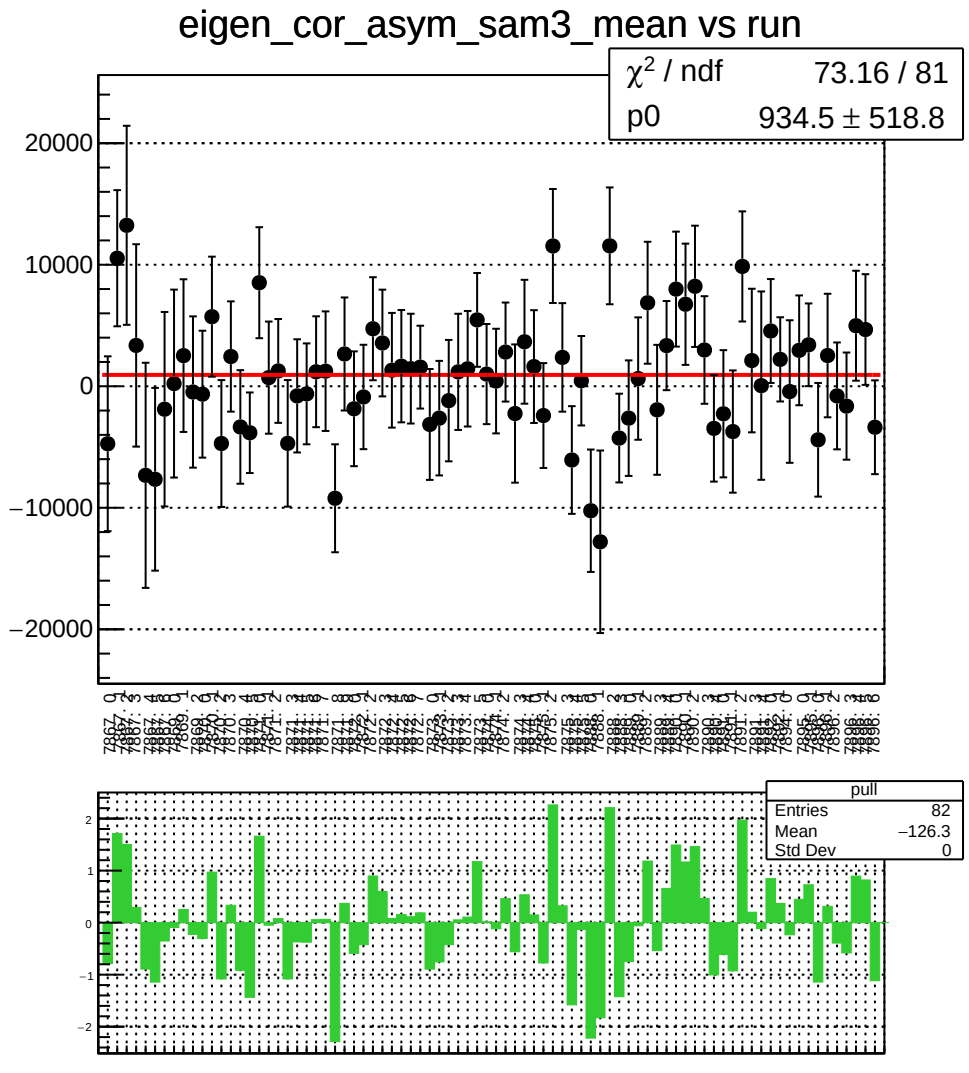
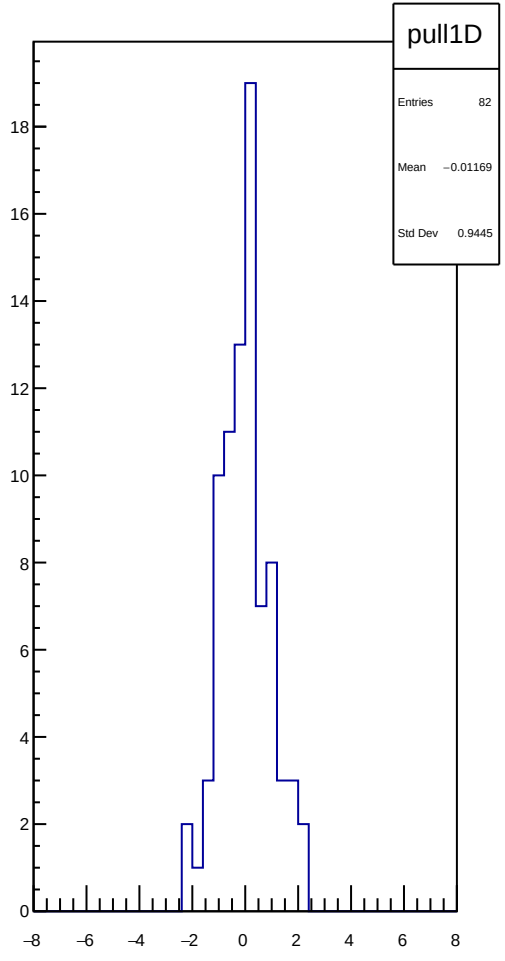
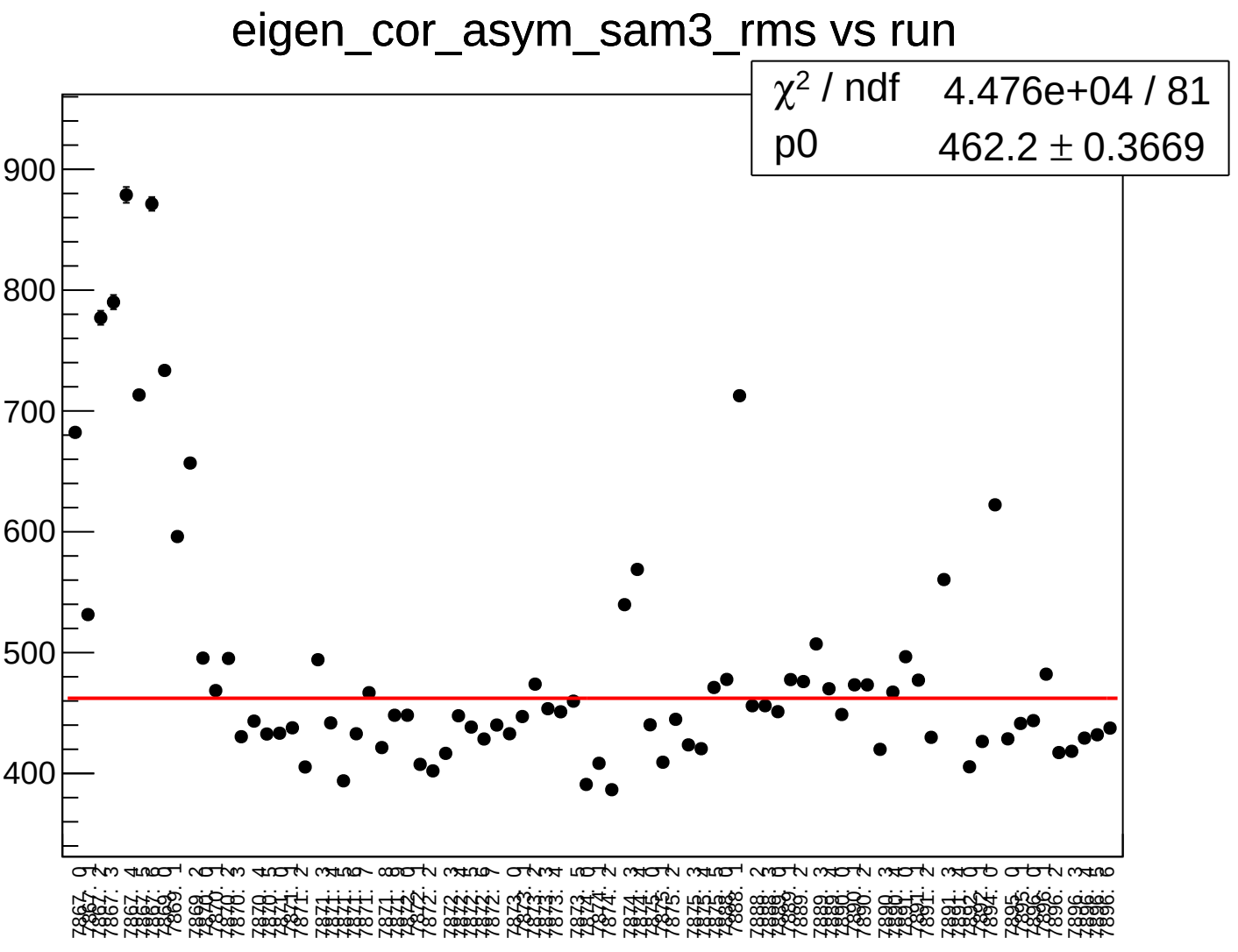
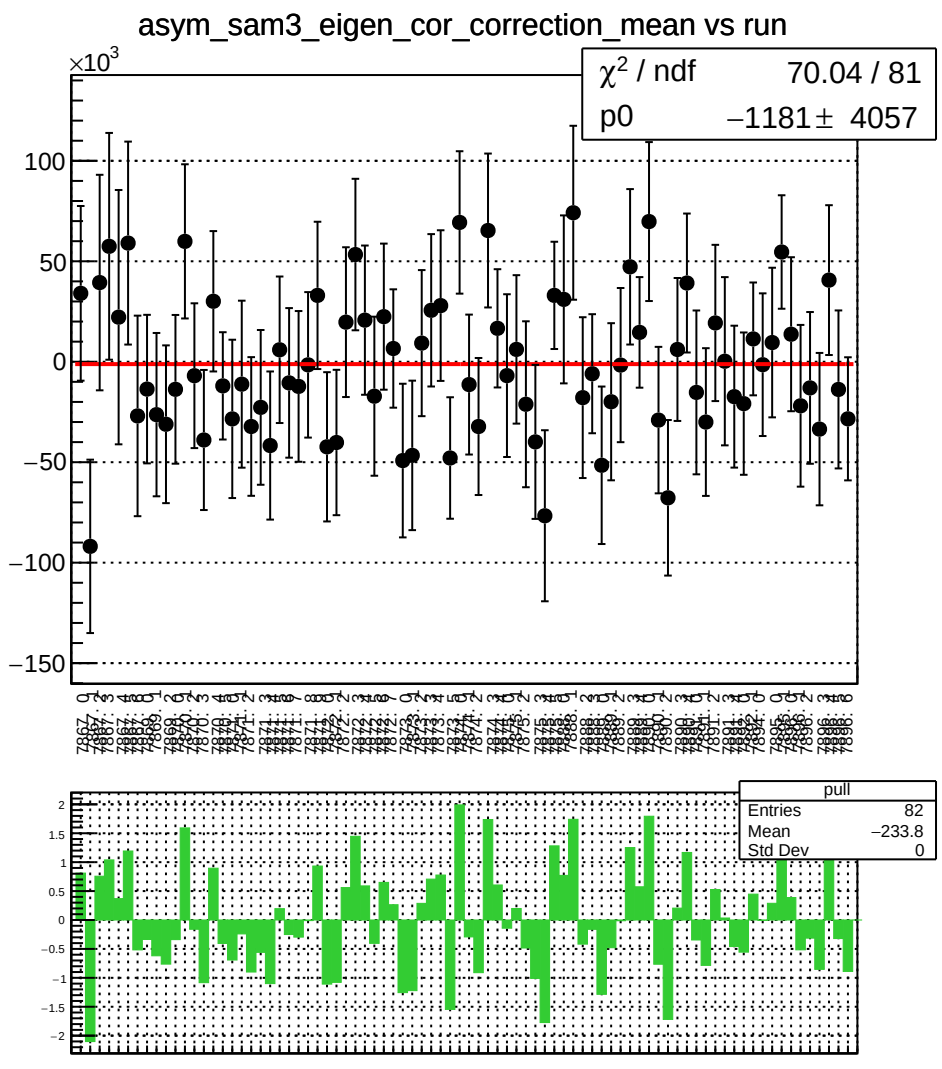
0
2
4
6
8

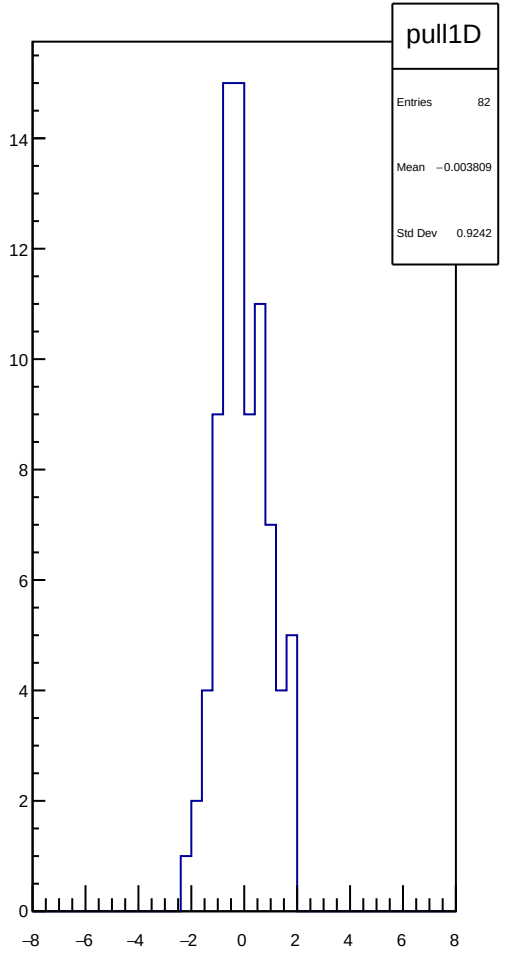

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.497e+04 / 81
p0 3649 ± 2.869
6000
5500
5000
4500
4000
3500
3000


eigen_cor_asym_sam3_mean vs run
χ² / ndf 73.16 / 81
p0 934.5 ± 518.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −126.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.01169
Std Dev 0.9445
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
χ^2 / ndf 4.476e+04 / 81
p0 462.2 ± 0.3669
900
800
700
600
500
400


asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.04 / 81
p0 −1181 ± 4057
100
50
0
−50
−100
−150
pull
Entries 82
Mean −233.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.003809
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
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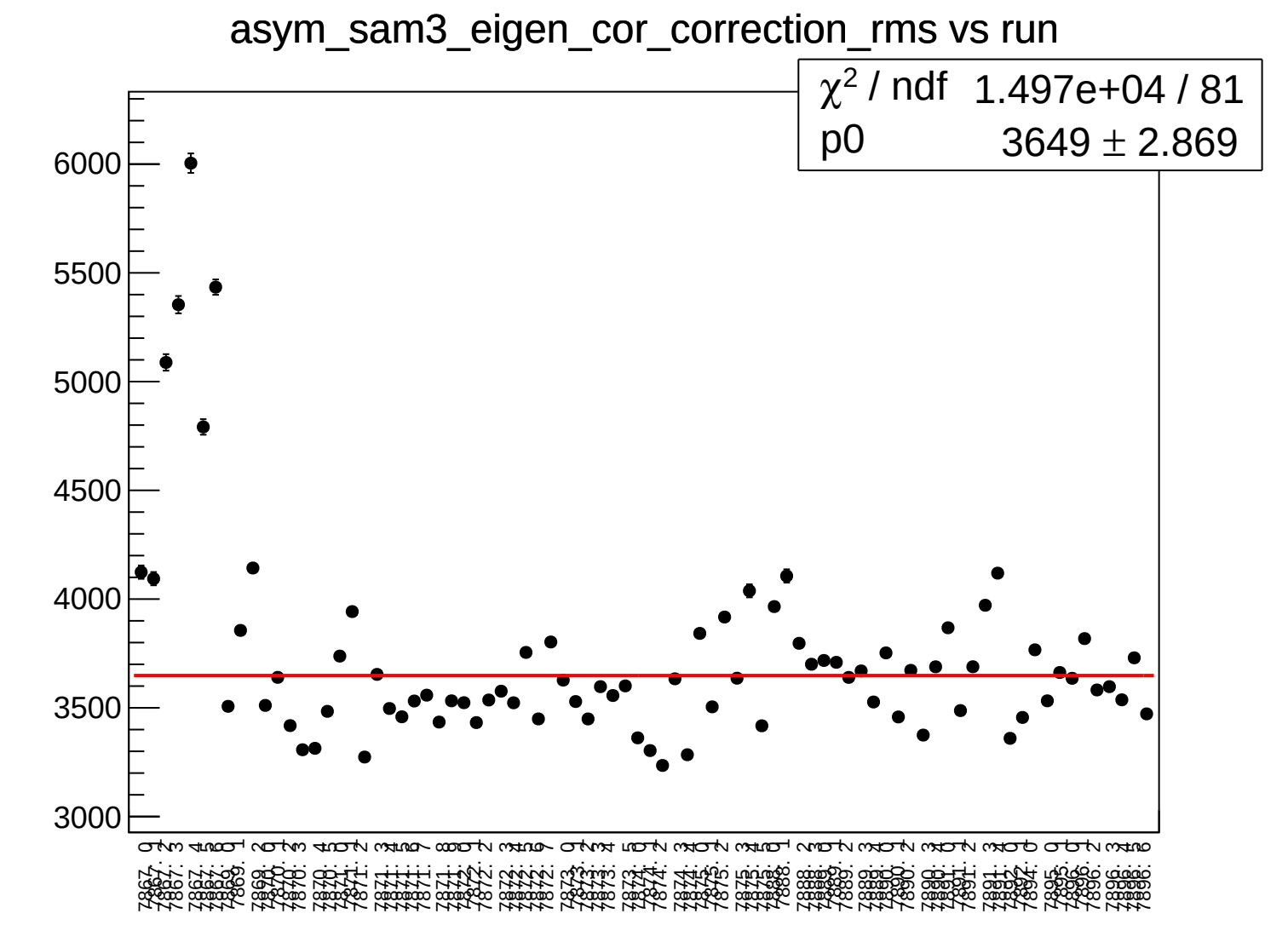
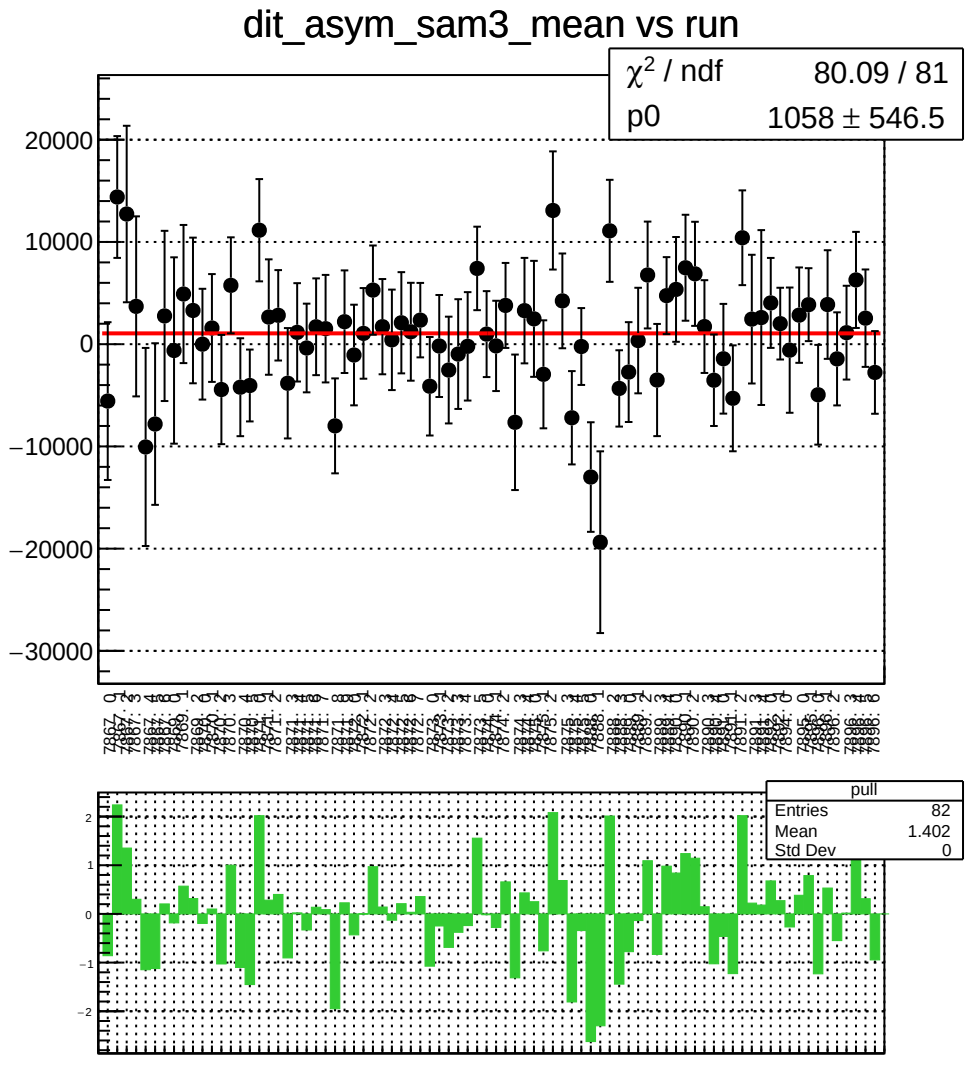
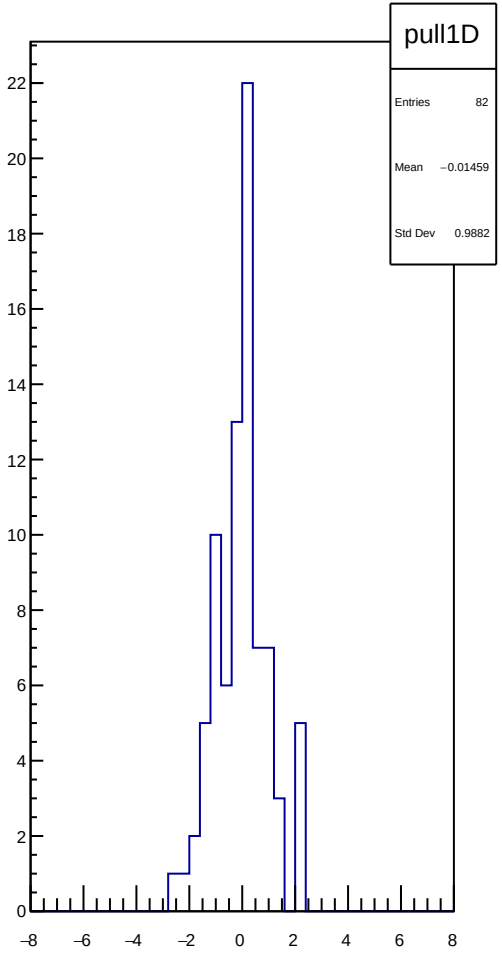
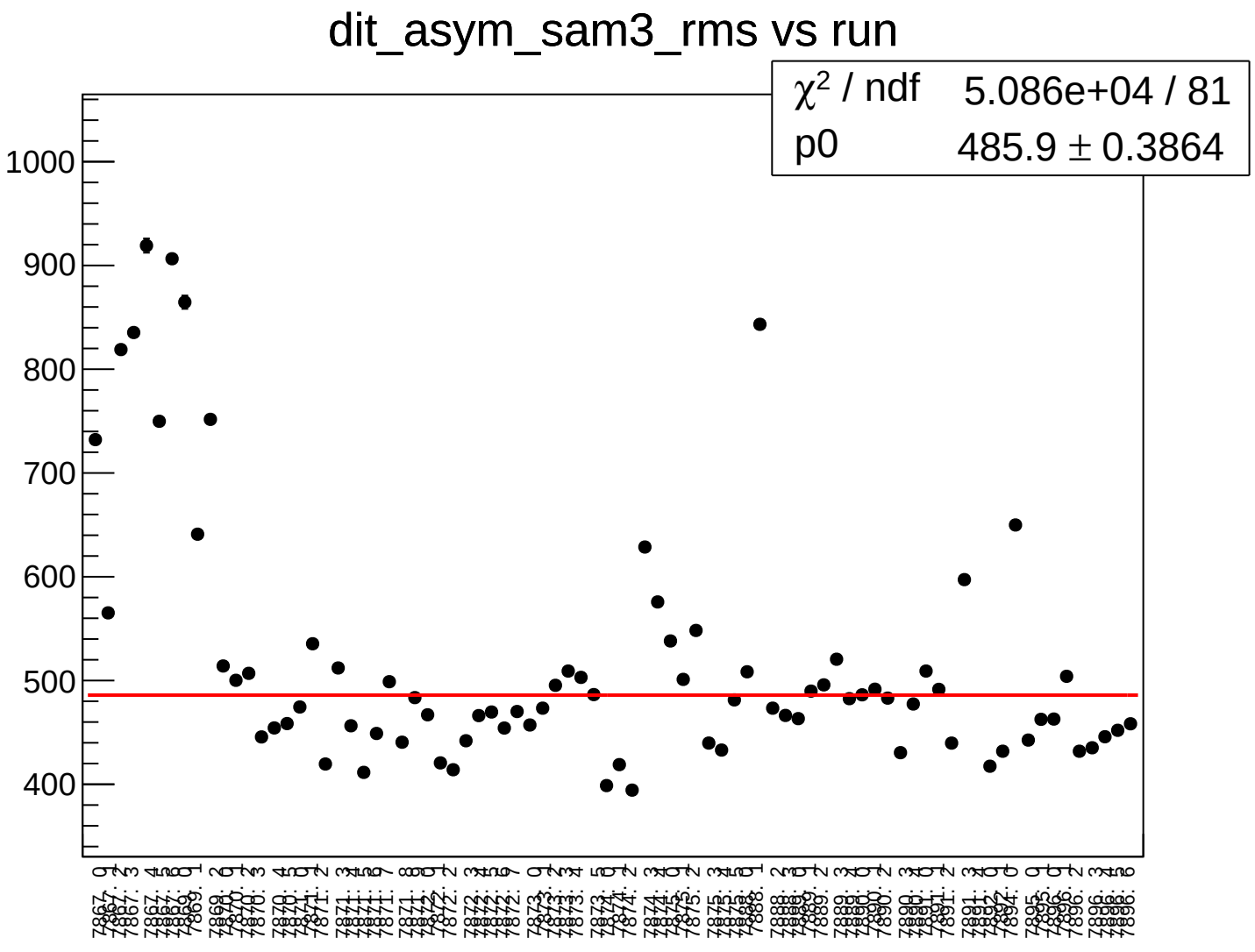
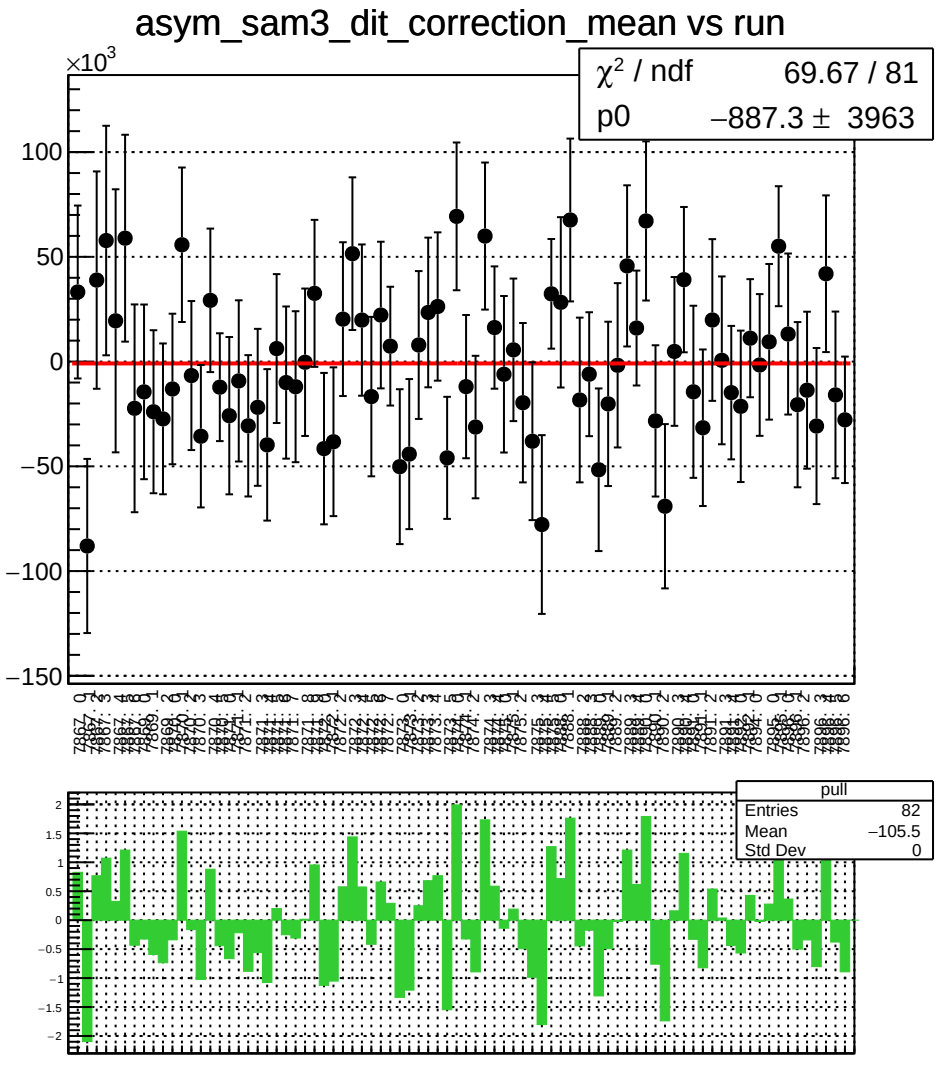
−4
−2
0
2
4
6
8

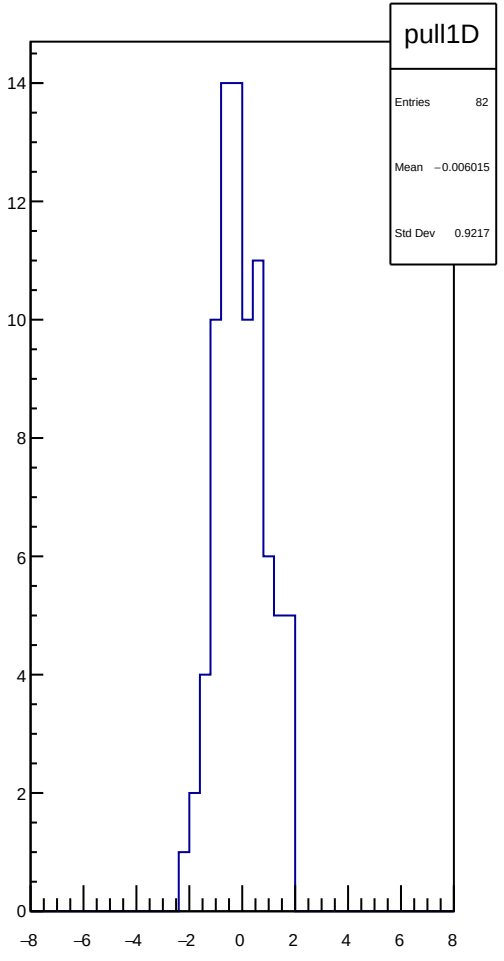

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.497e+04 / 81
p0 3649 ± 2.869
6000
5500
5000
4500
4000
3500
3000

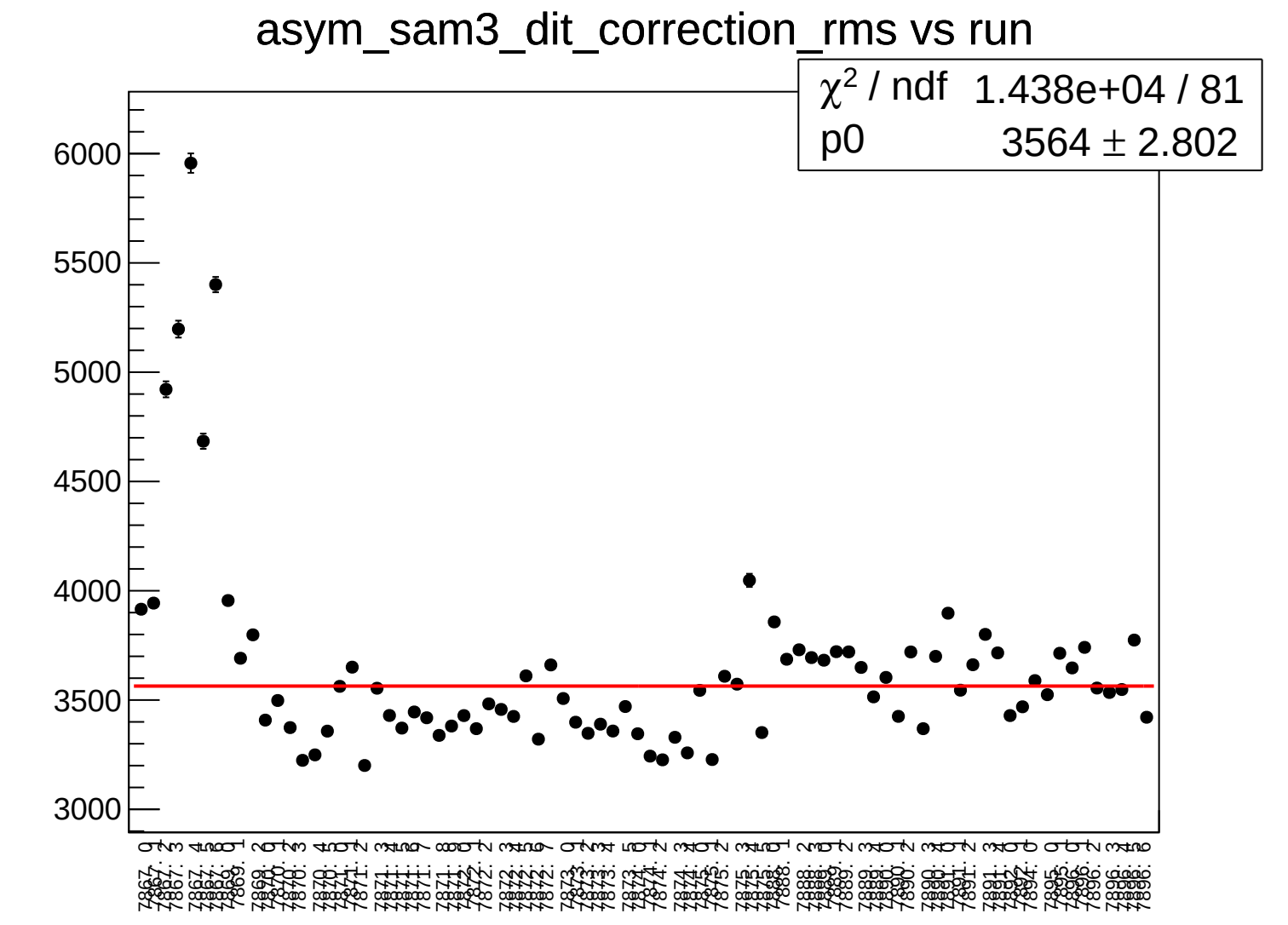

dit_asym_sam3_mean vs run
χ² / ndf 80.09 / 81
p0 1058 ± 546.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 1.402
Std Dev 0
2
1
0
−1
−2

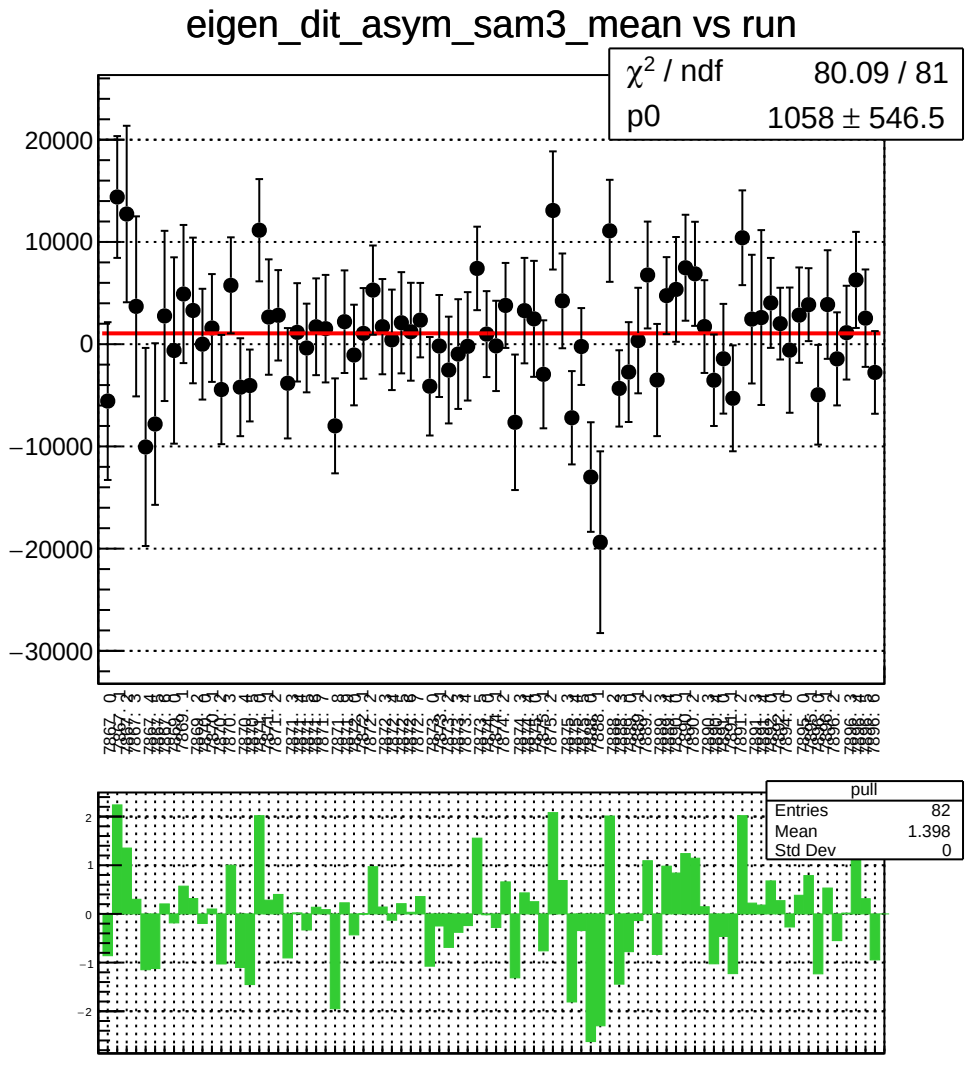

pull1D
Entries 82
Mean −0.01459
Std Dev 0.9882
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

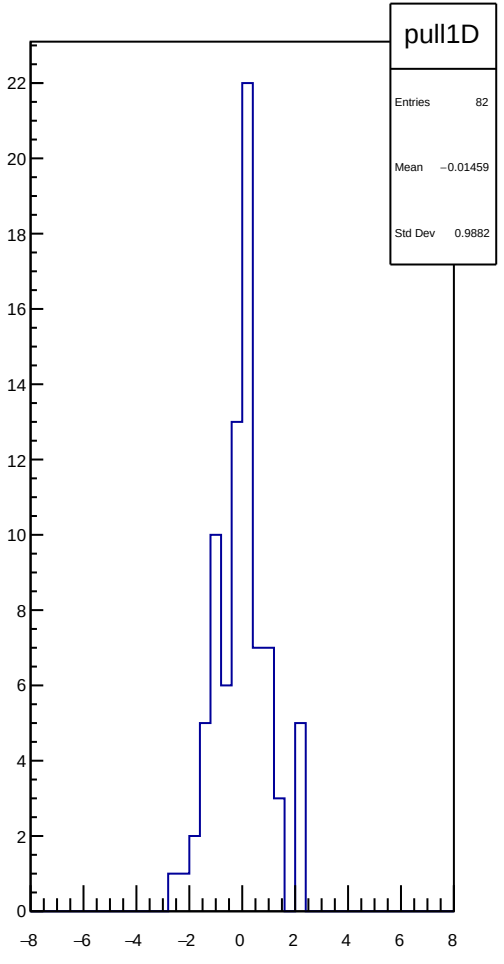

dit_asym_sam3_rms vs run
χ² / ndf 5.086e+04 / 81
p0 485.9 ± 0.3864
1000
900
800
700
600
500
400

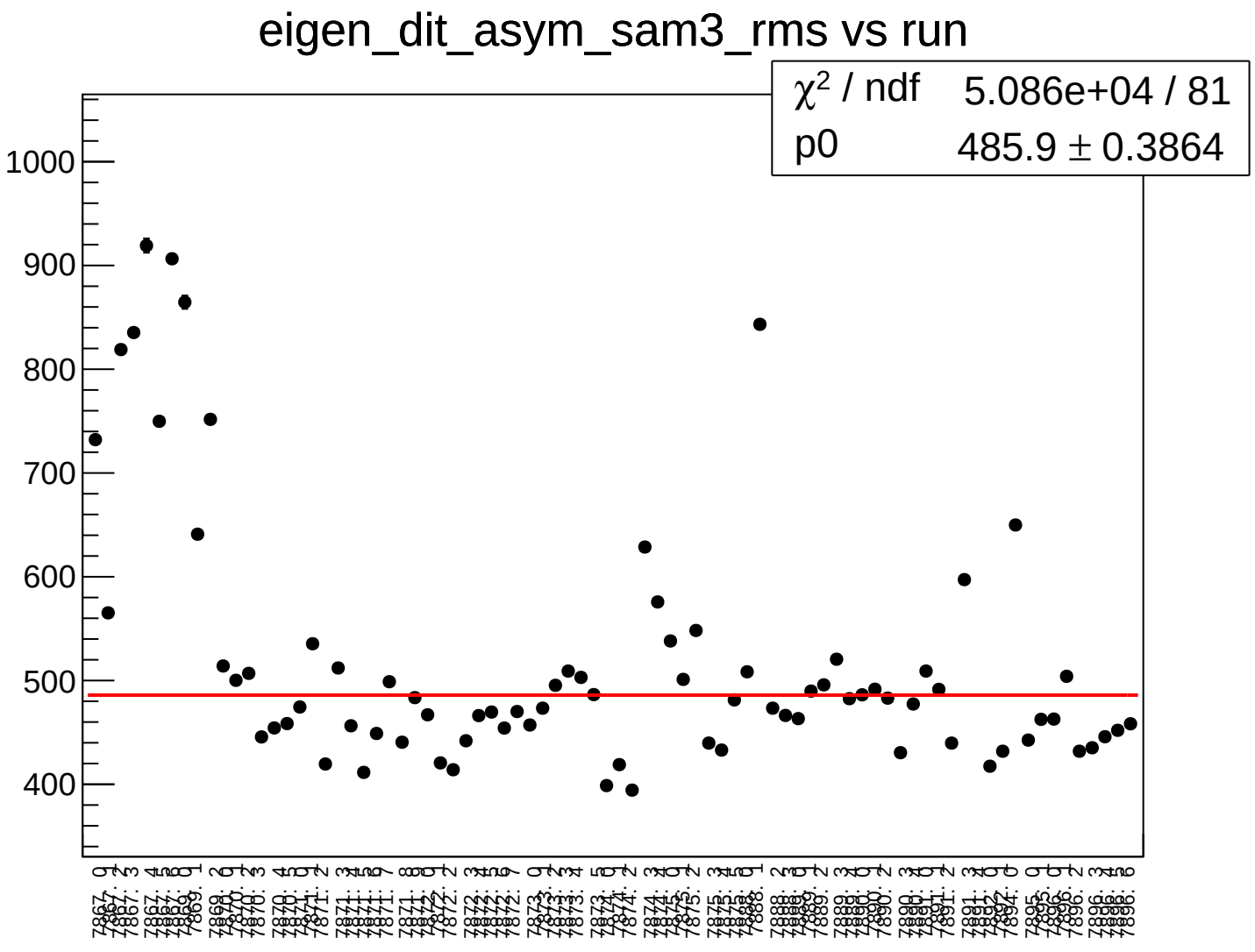

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 69.67 / 81
p0 −887.3 ± 3963
100
50
0
−50
−100
−150
pull
Entries 82
Mean −105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

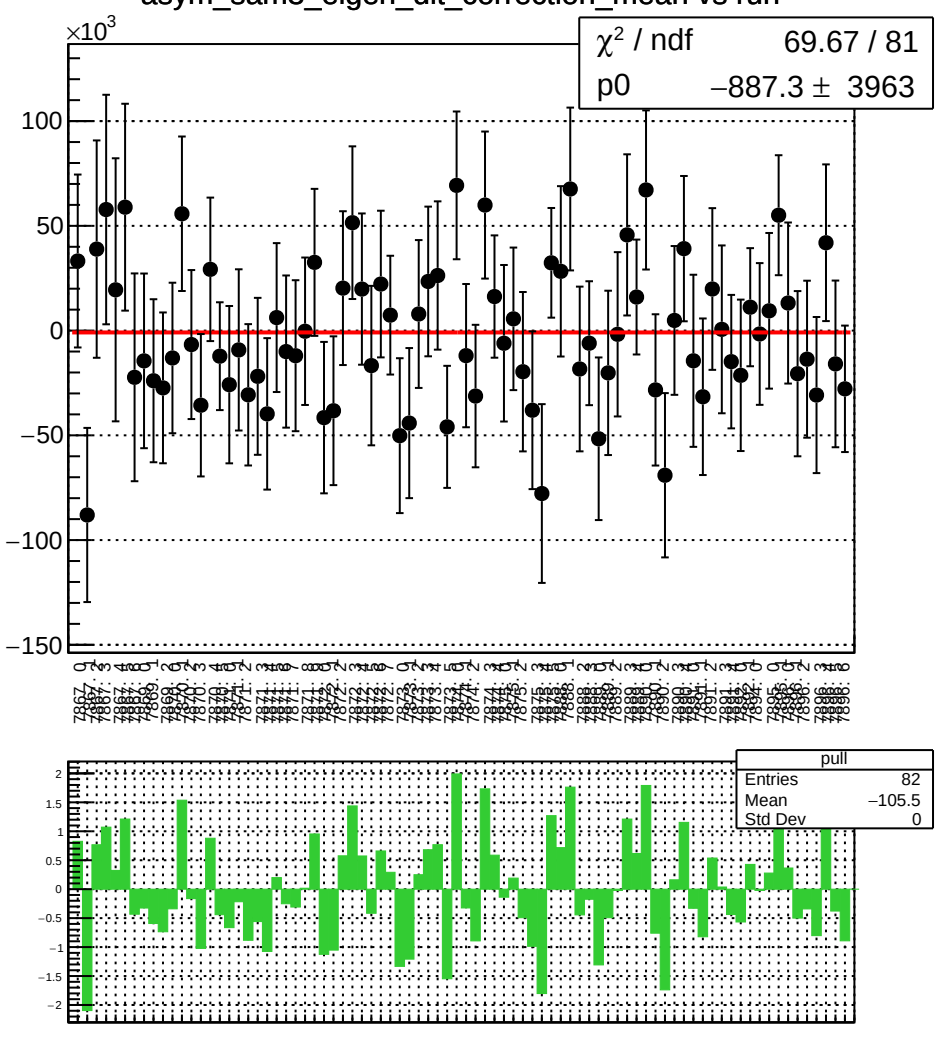

pull1D
Entries 82
Mean −0.006015
Std Dev 0.9217
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

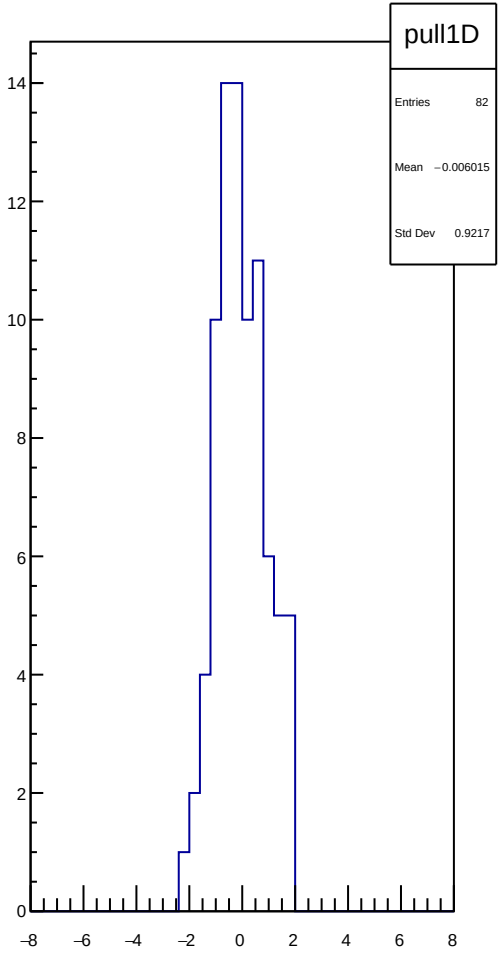

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.438e+04 / 81
p0 3564 ± 2.802
6000
5500
5000
4500
4000
3500
3000

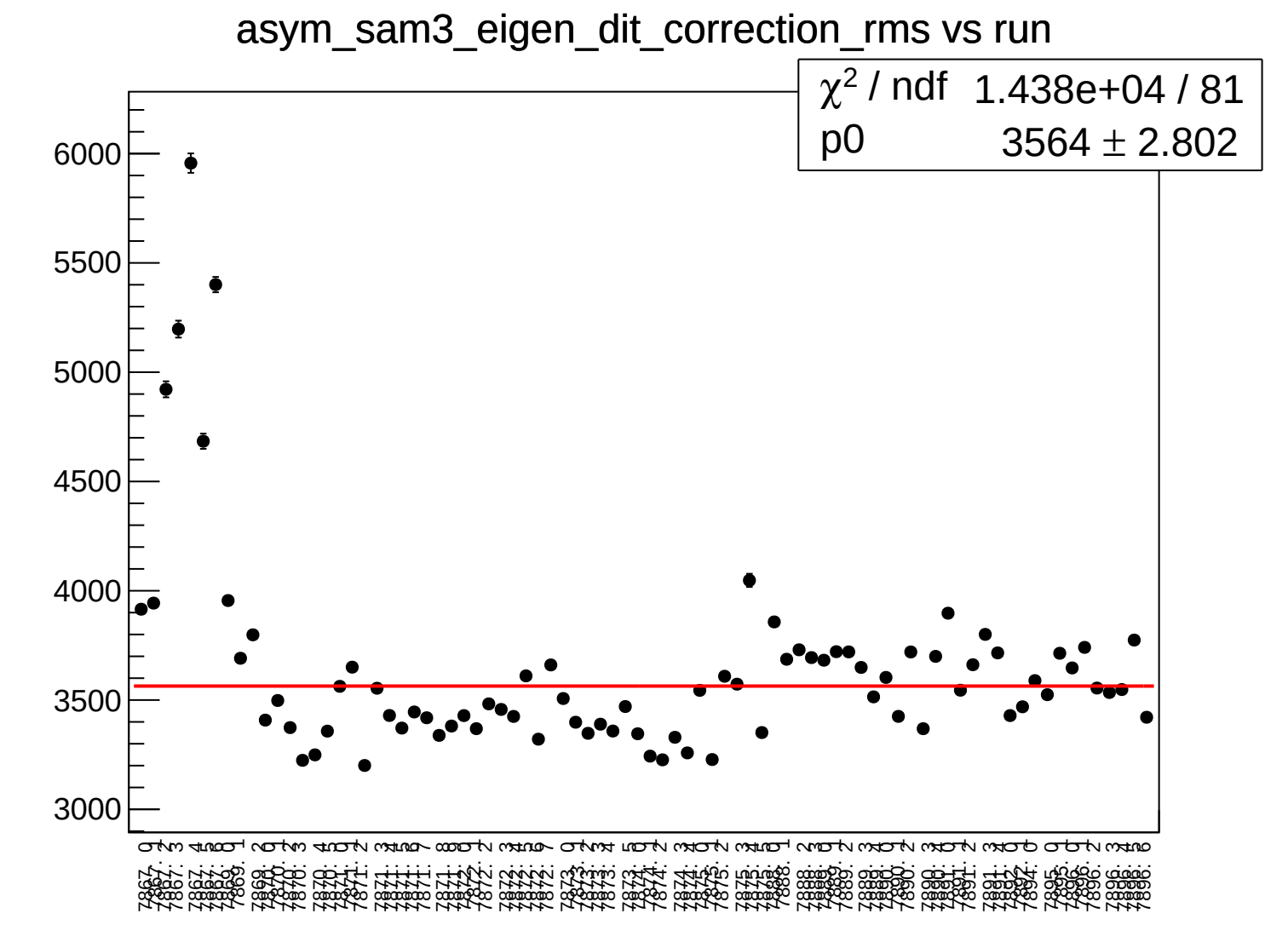

eigen_dit_asym_sam3_mean vs run
χ² / ndf 80.09 / 81
p0 1058 ± 546.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 1.398
Std Dev 0
2
1
0
−1
−2

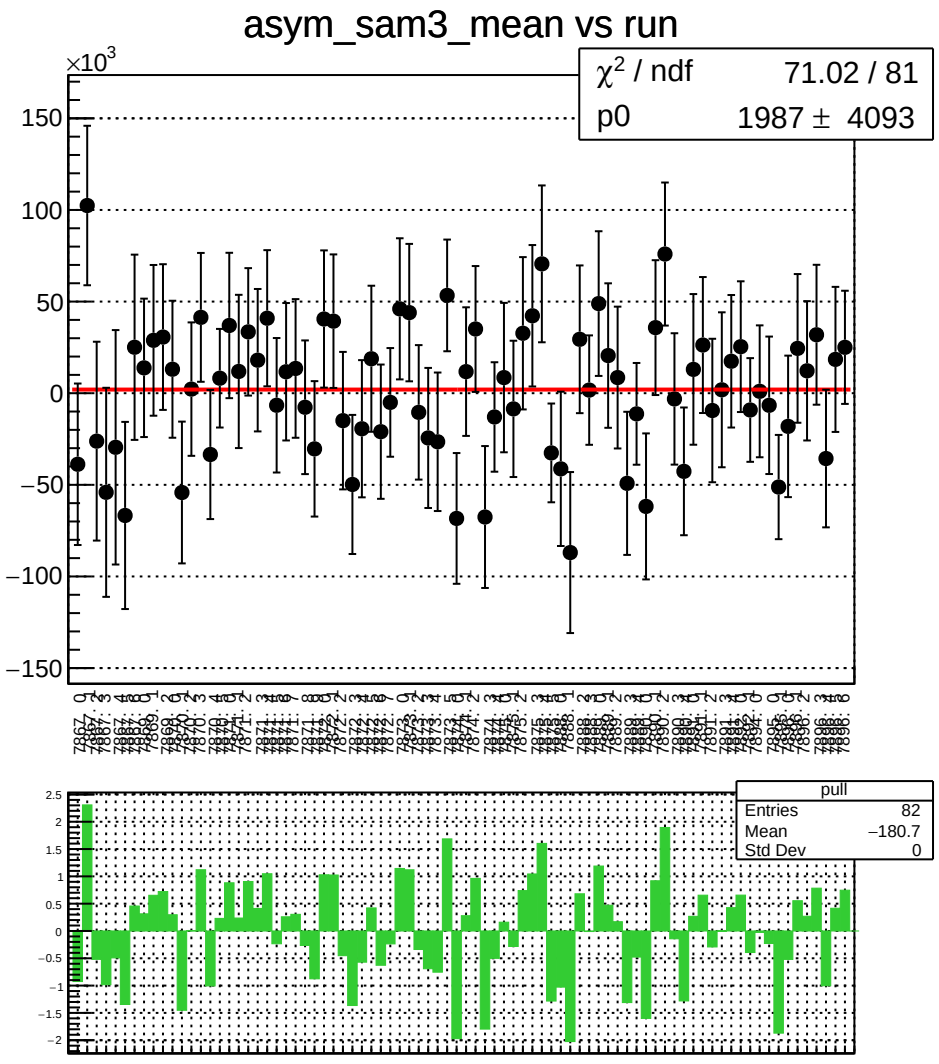

pull1D
Entries 82
Mean −0.01459
Std Dev 0.9882
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

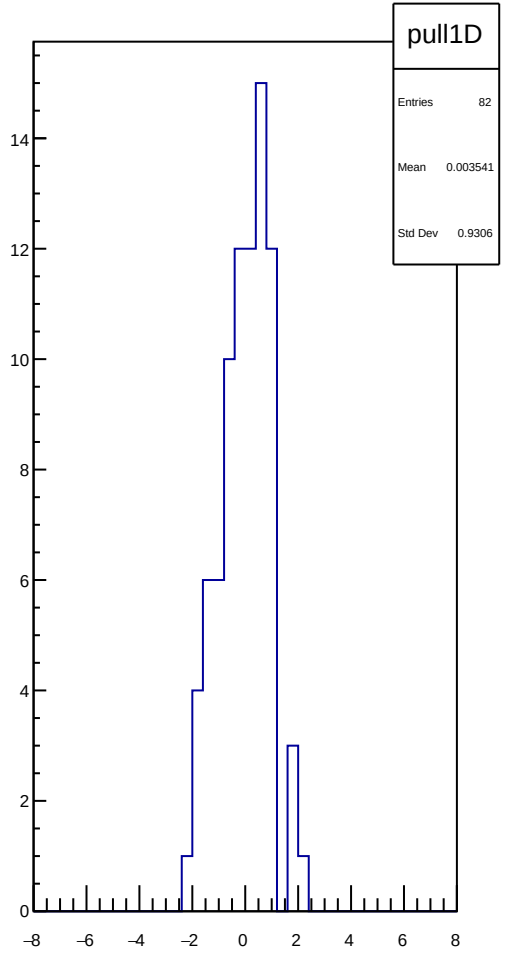

eigen_dit_asym_sam3_rms vs run
χ² / ndf 5.086e+04 / 81
p0 485.9 ± 0.3864
1000
900
800
700
600
500
400

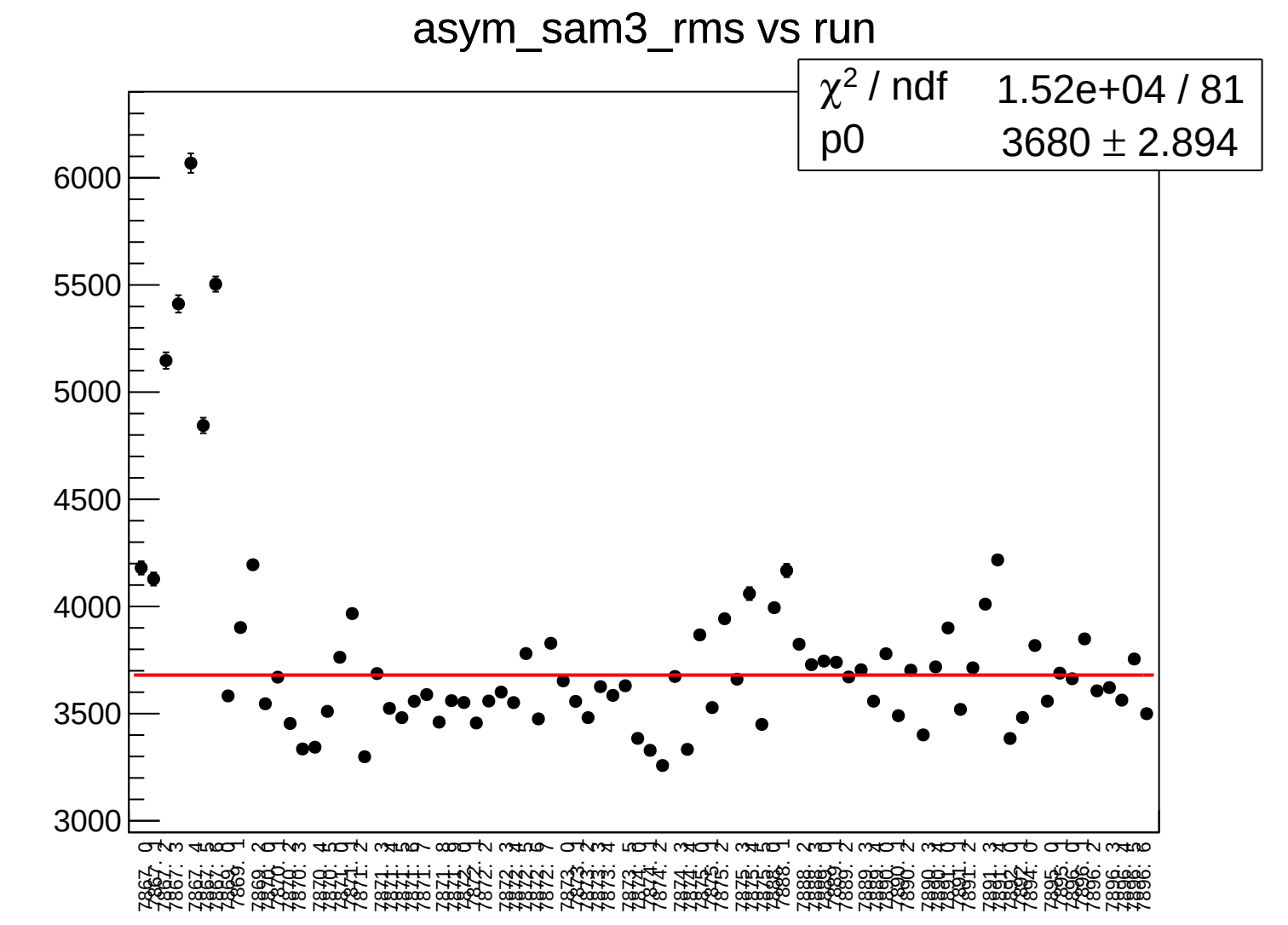

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.67 / 81
p0 −887.3 ± 3963
100
50
0
−50
−100
−150
pull
Entries 82
Mean −105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

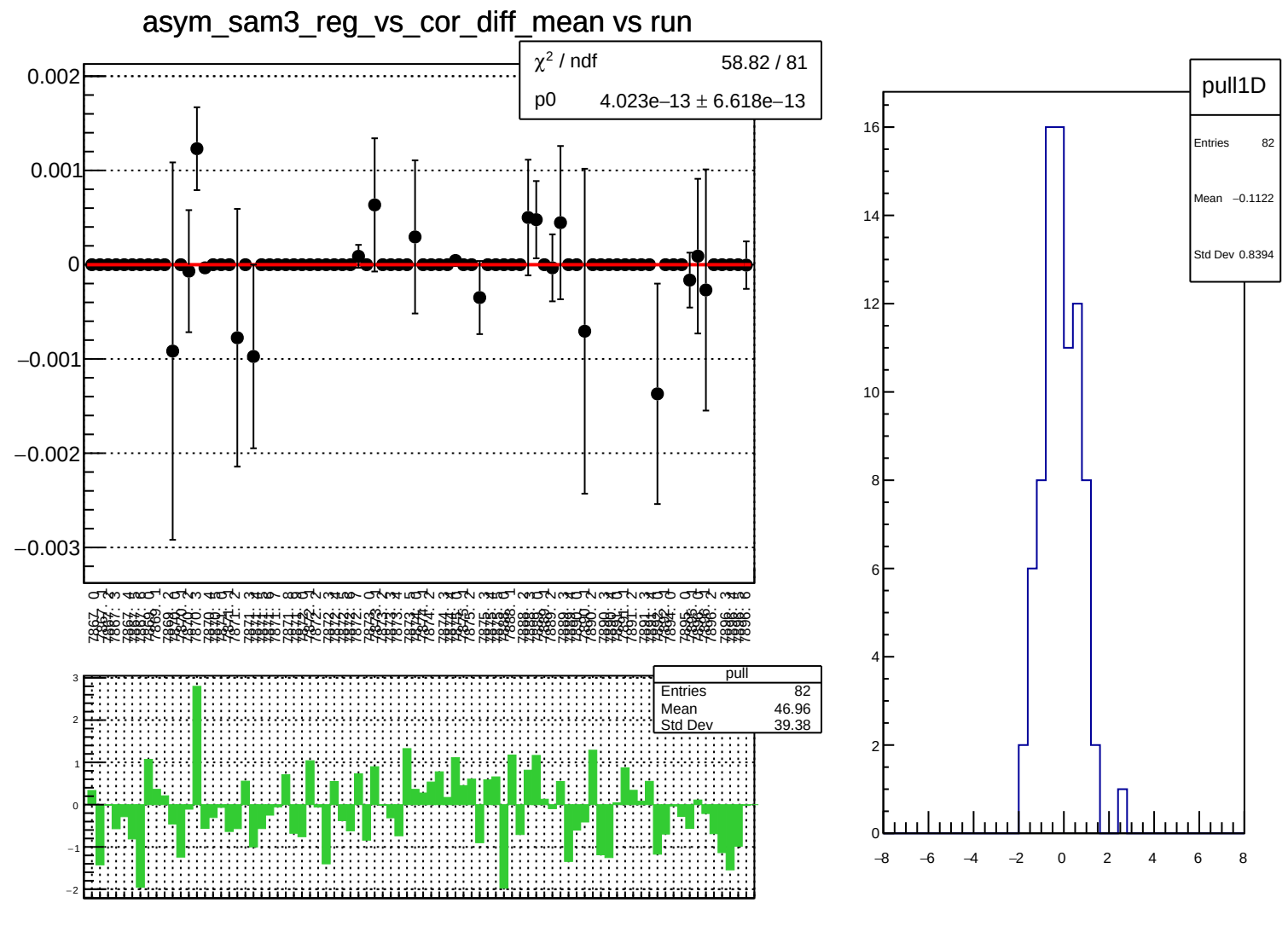

pull1D
Entries 82
Mean −0.006015
Std Dev 0.9217
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

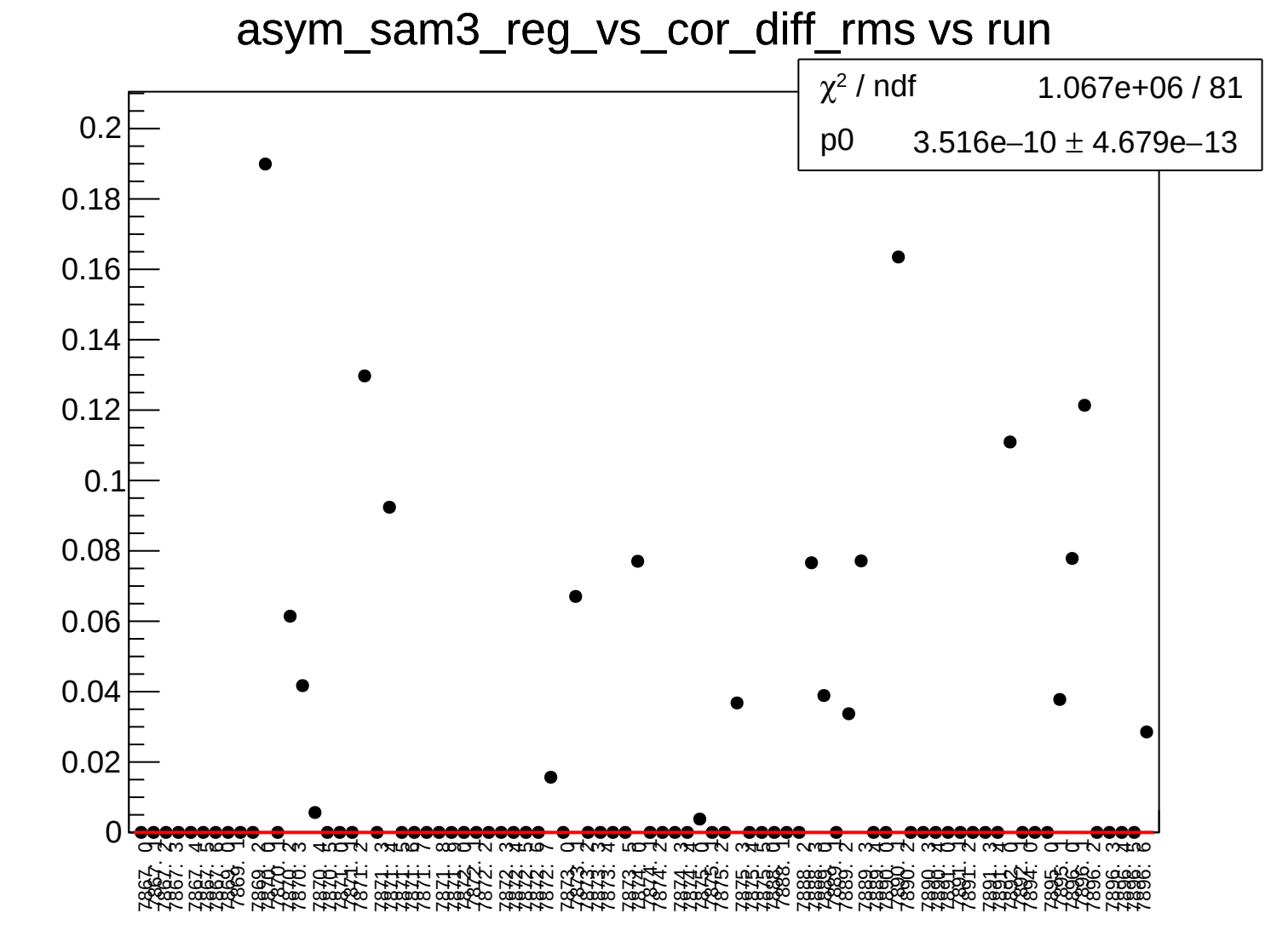

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.438e+04 / 81
p0 3564 ± 2.802
6000
5500
5000
4500
4000
3500
3000

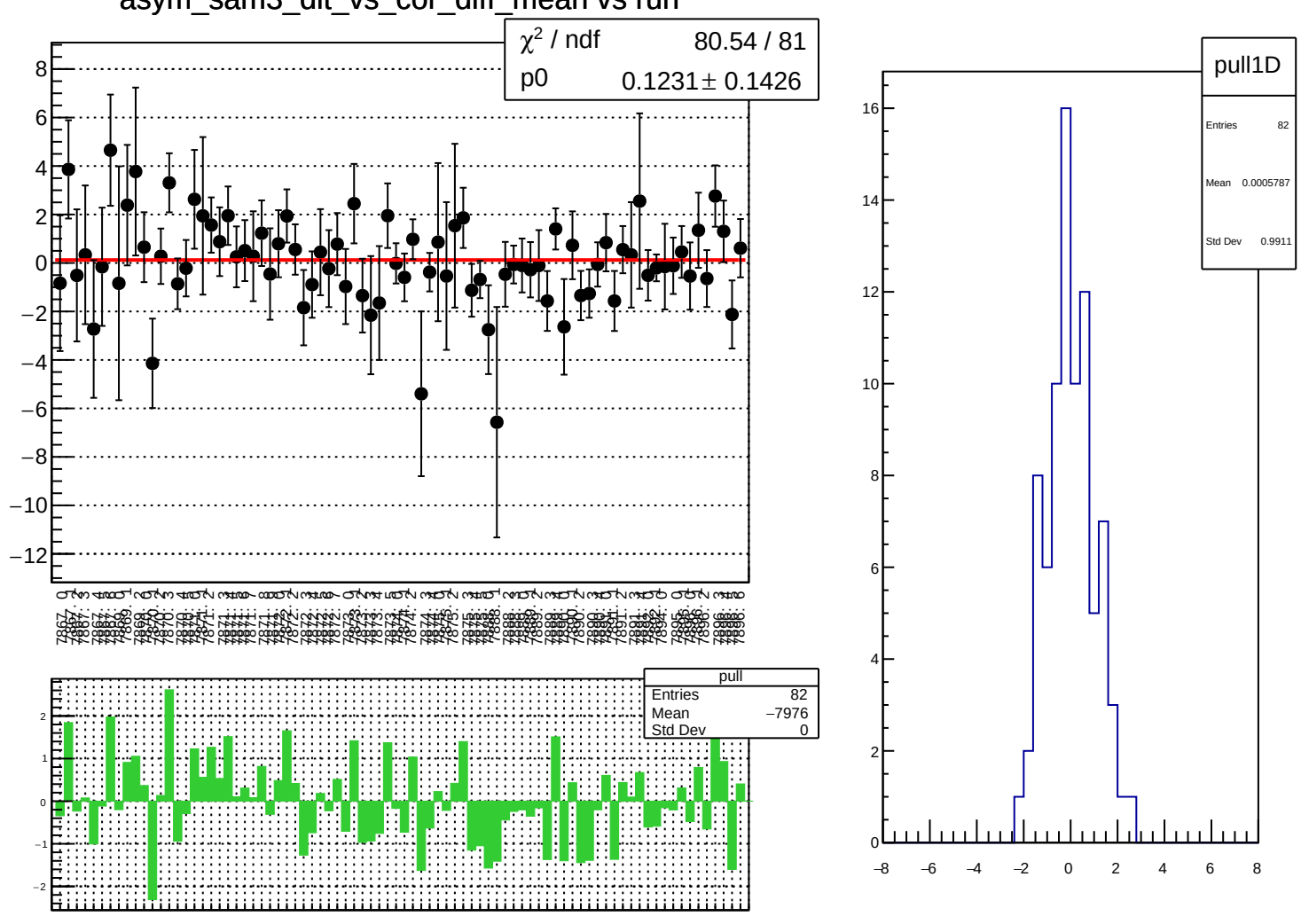

asym_sam3_mean vs run
×10^3
χ² / ndf 71.02 / 81
p0 1987 ± 4093
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −180.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

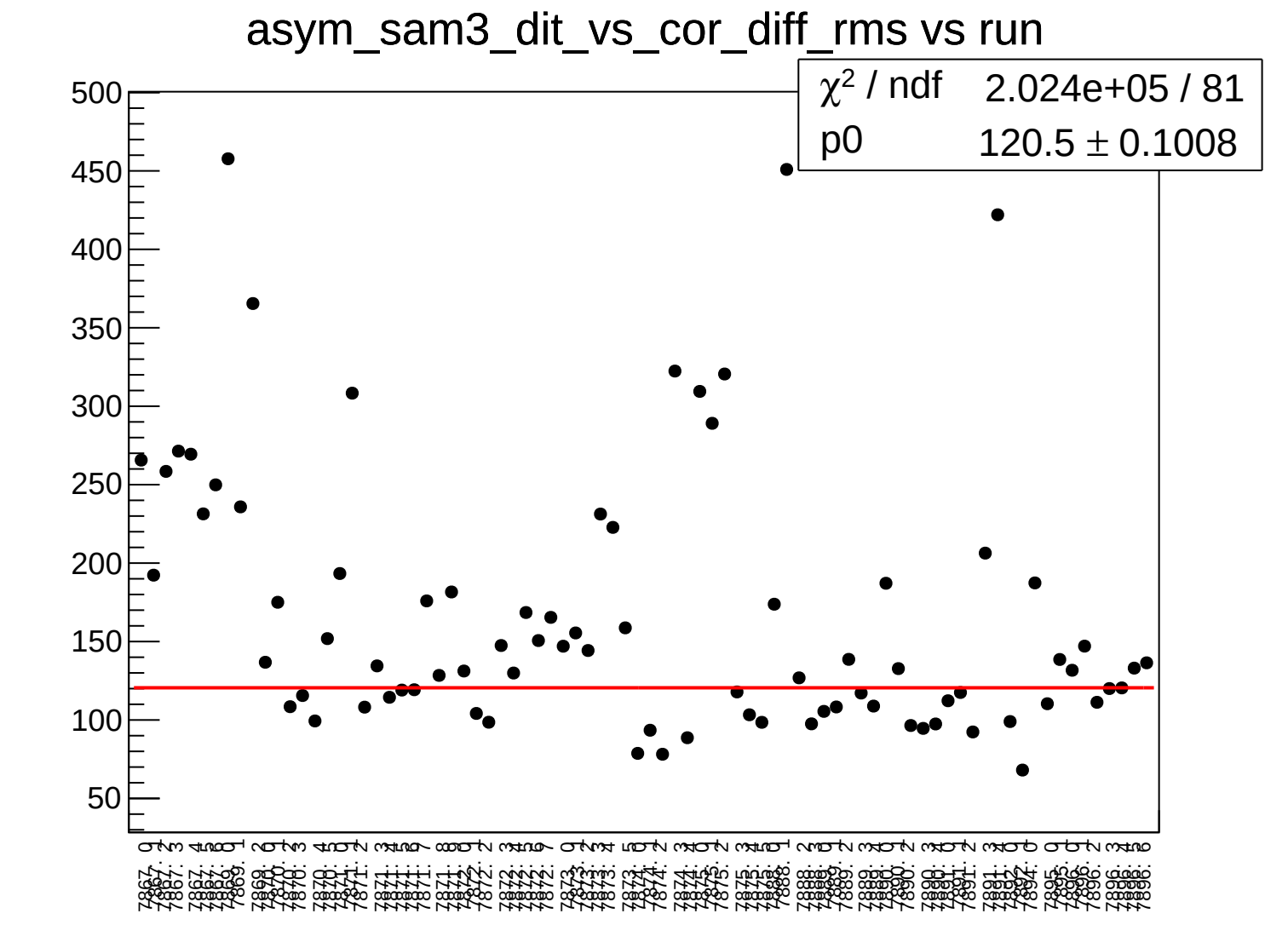

pull1D
Entries 82
Mean 0.003541
Std Dev 0.9306
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

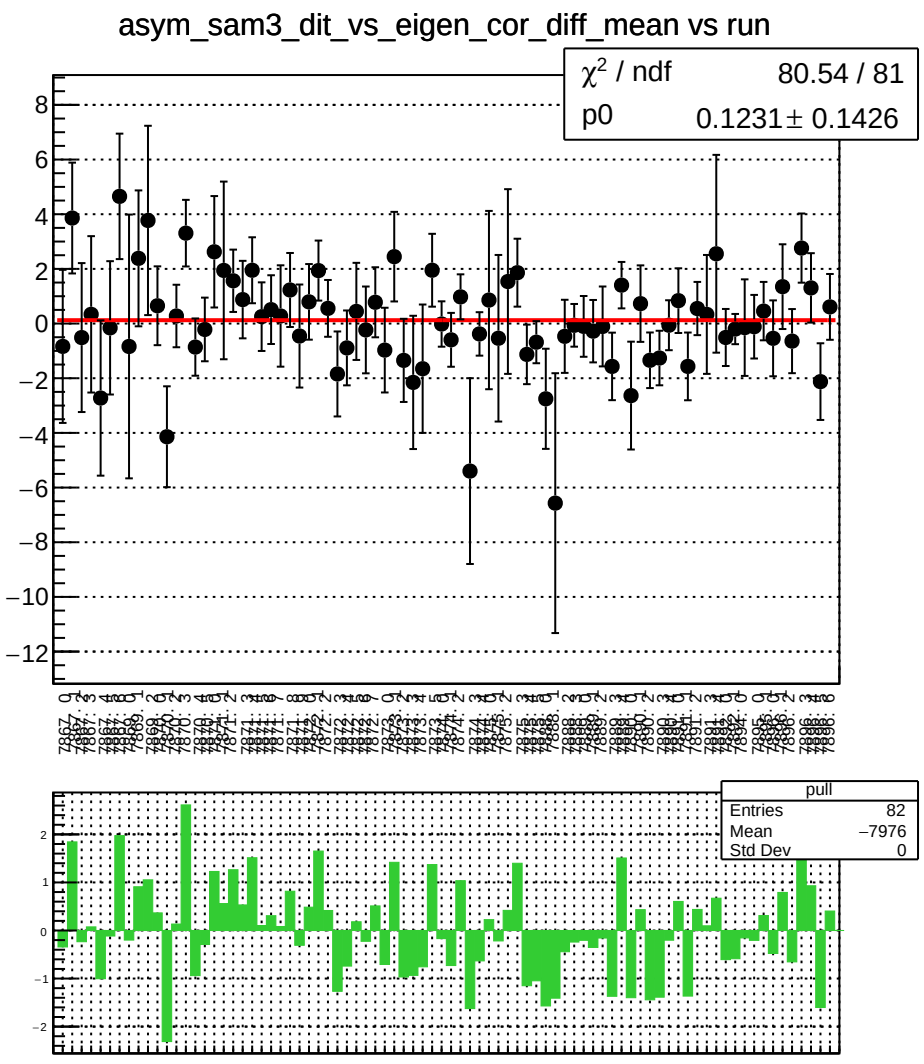

asym_sam3_rms vs run
χ^2 / ndf 1.52e+04 / 81
p0 3680 ± 2.894
6000
5500
5000
4500
4000
3500
3000

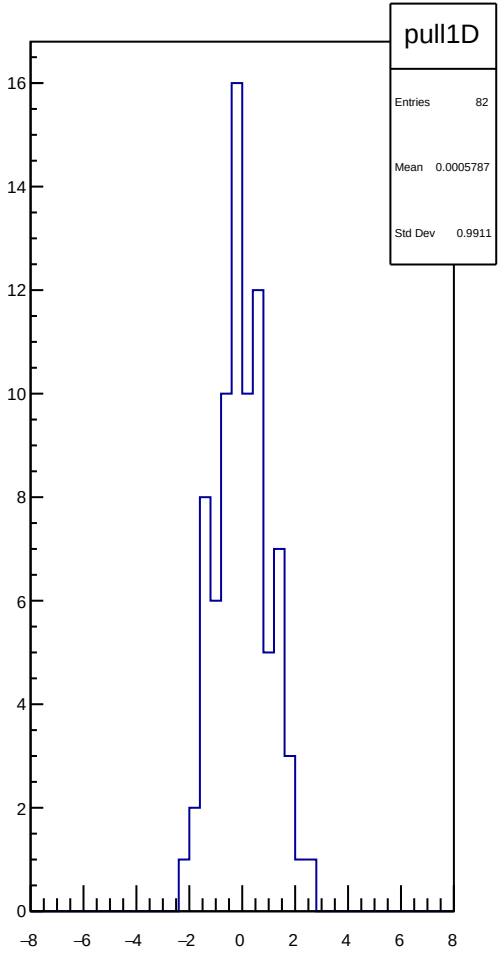

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 58.82 / 81
p0 4.023e−13 ± 6.618e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 82
Mean 46.96
Std Dev 39.38
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1122
Std Dev 0.8394
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

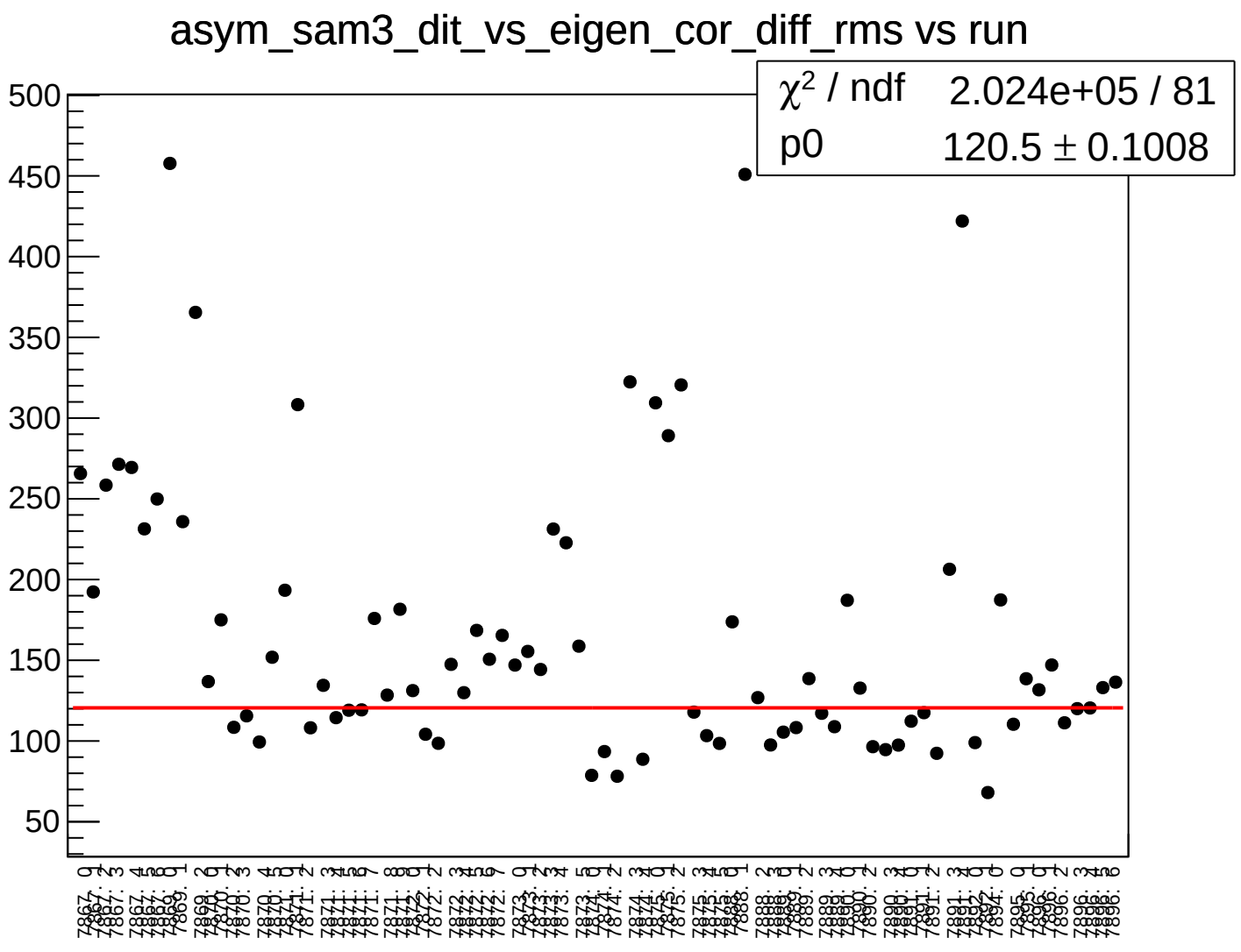

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 81
p0 3.516e−10 ± 4.679e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

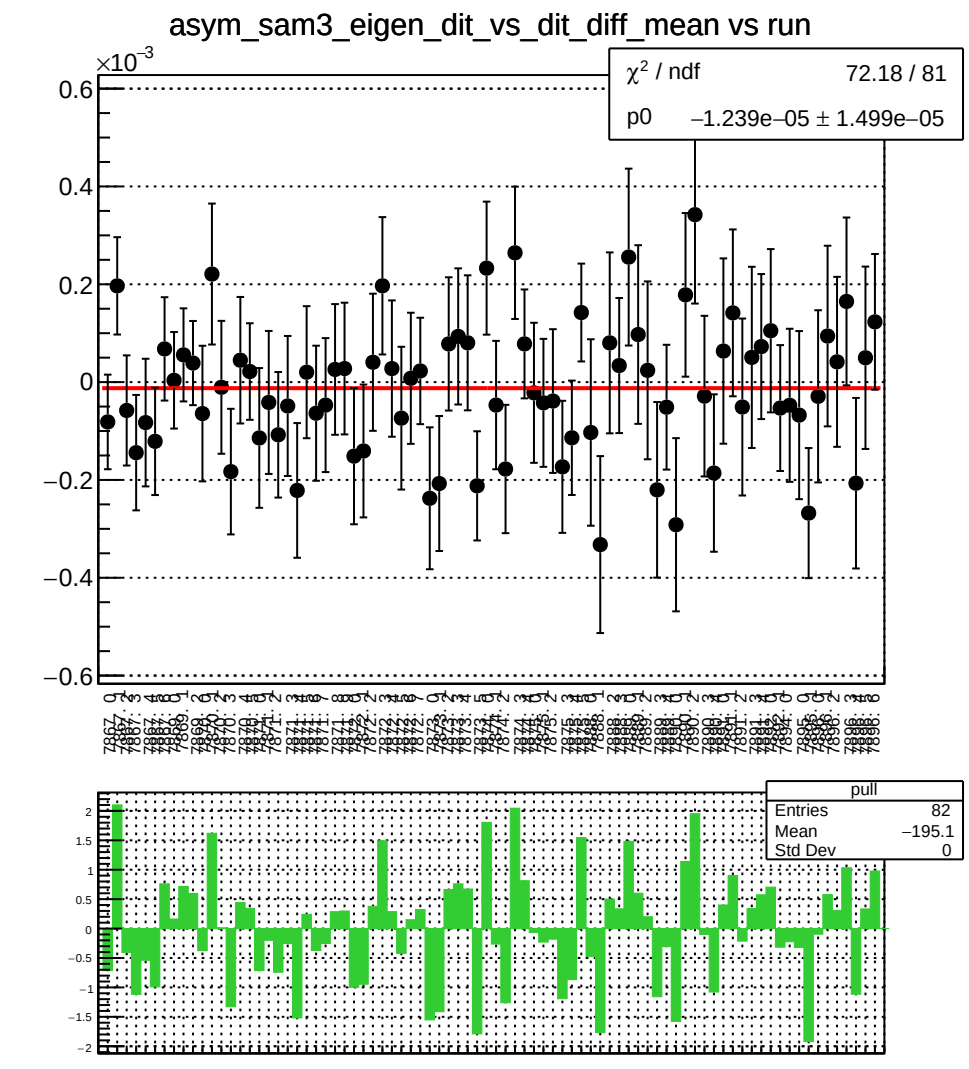

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 80.54 / 81
p0 0.1231± 0.1426
pull
Entries 82
Mean −7976
Std Dev 0
pull1D
Entries 82
Mean 0.0005787
Std Dev 0.9911

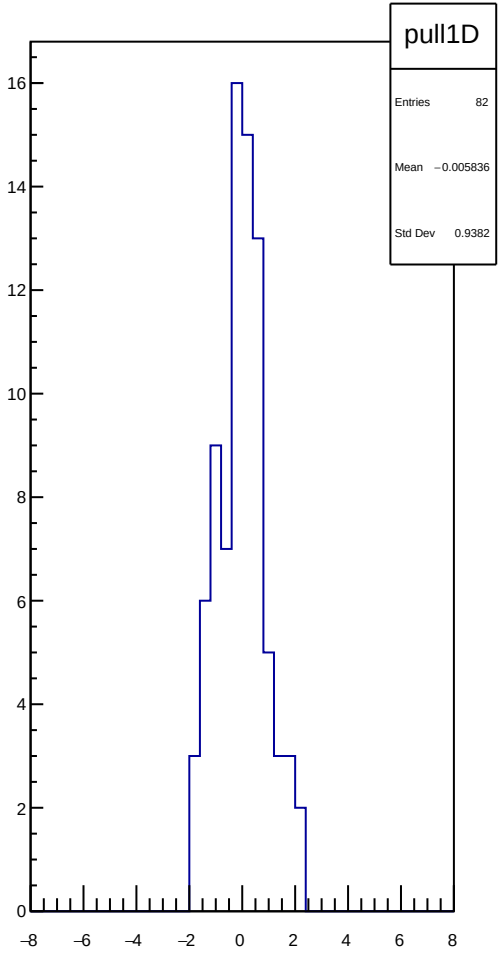

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.024e+05 / 81
p0 120.5 ± 0.1008
500
450
400
350
300
250
200
150
100
50

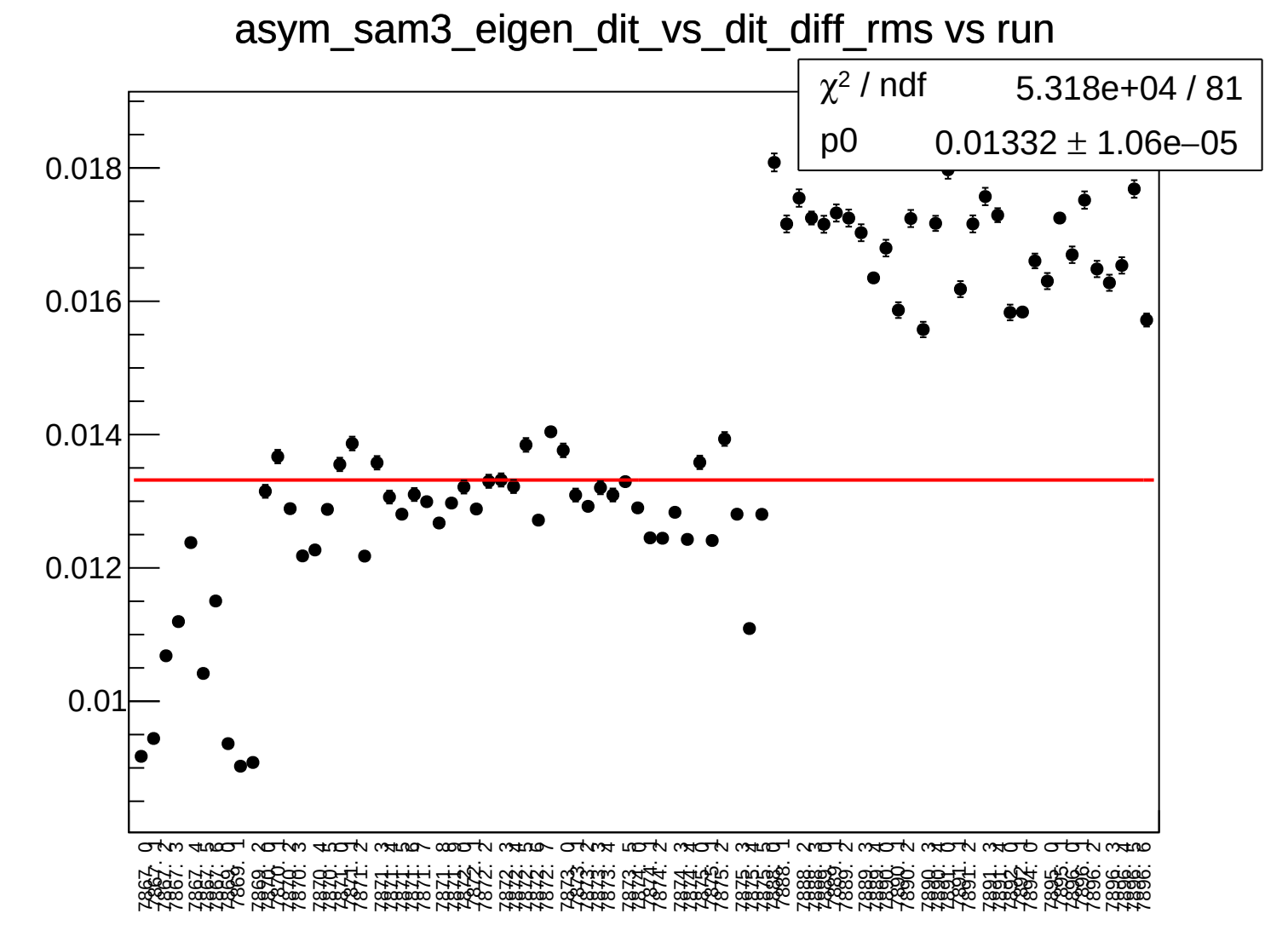

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.54 / 81
p0 0.1231± 0.1426
pull
Entries 82
Mean −7976
Std Dev 0

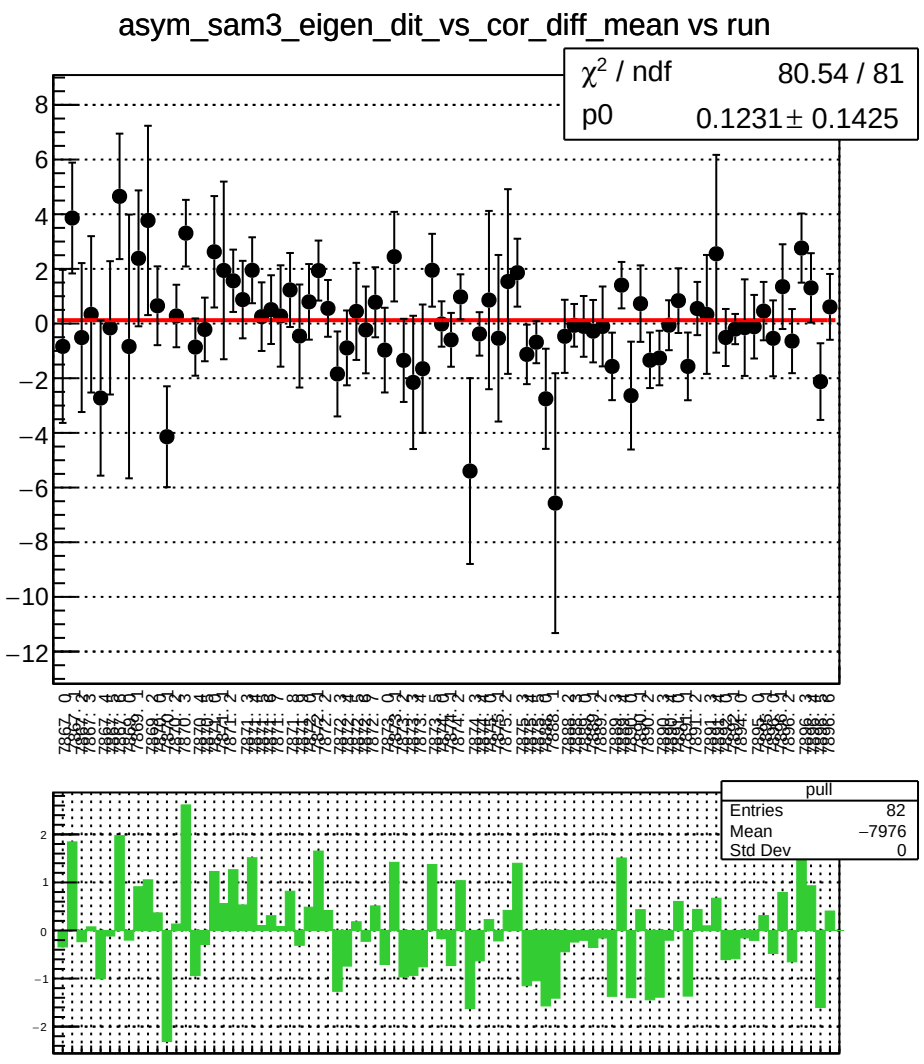

pull1D
Entries 82
Mean 0.0005787
Std Dev 0.9911

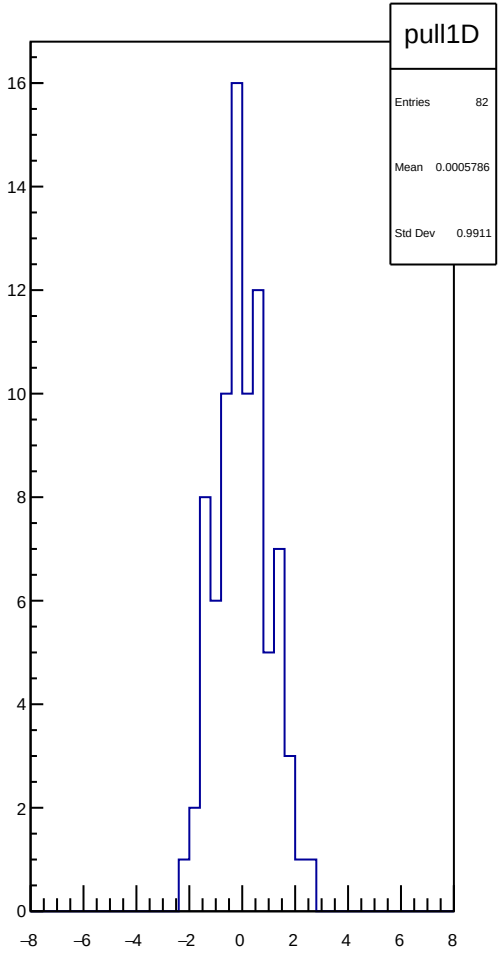

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.024e+05 / 81
p0 120.5 ± 0.1008
500
450
400
350
300
250
200
150
100
50

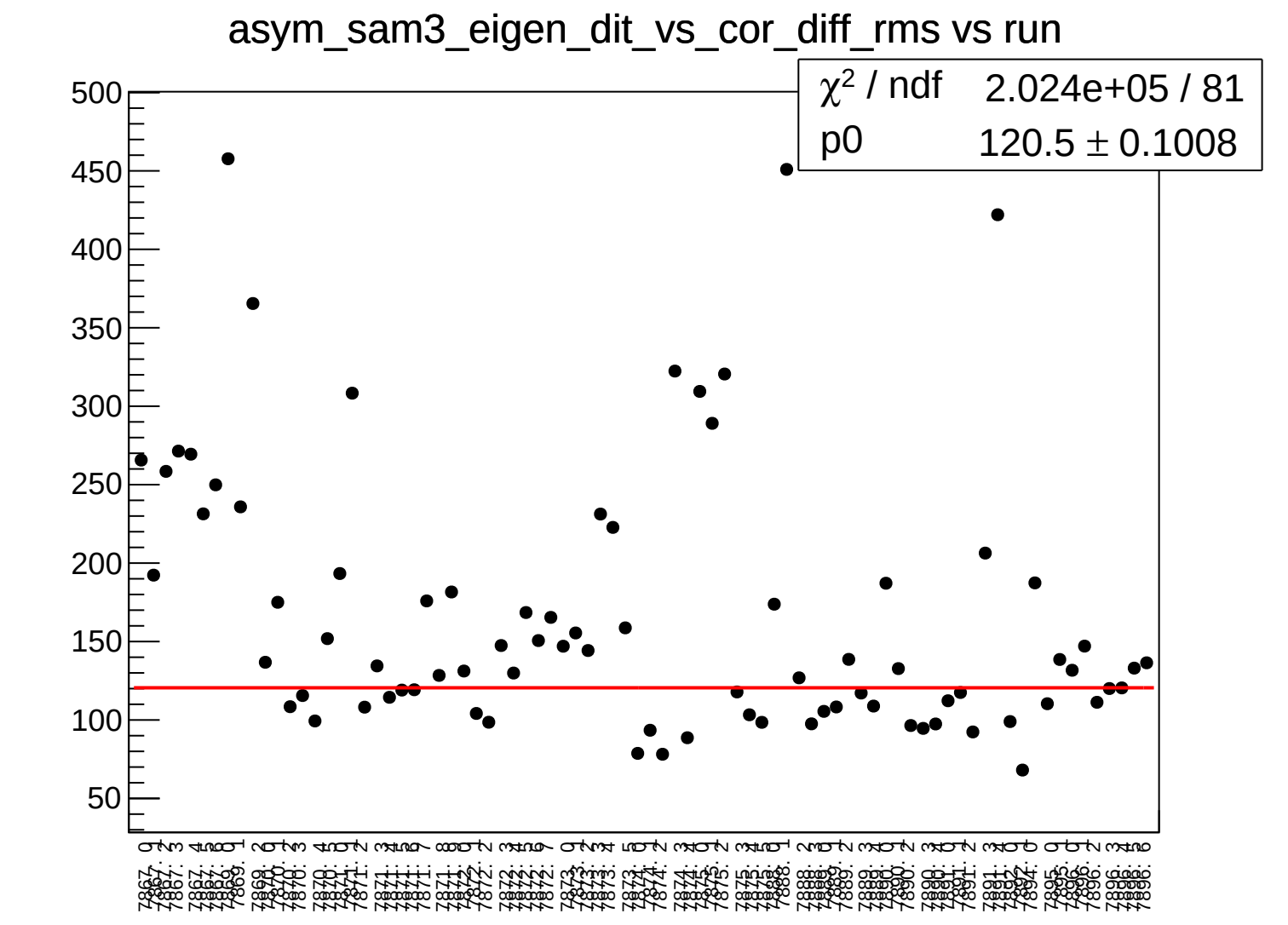

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.18 / 81
p0 −1.239e−05 ± 1.499e−05
pull
Entries 82
Mean −195.1
Std Dev 0

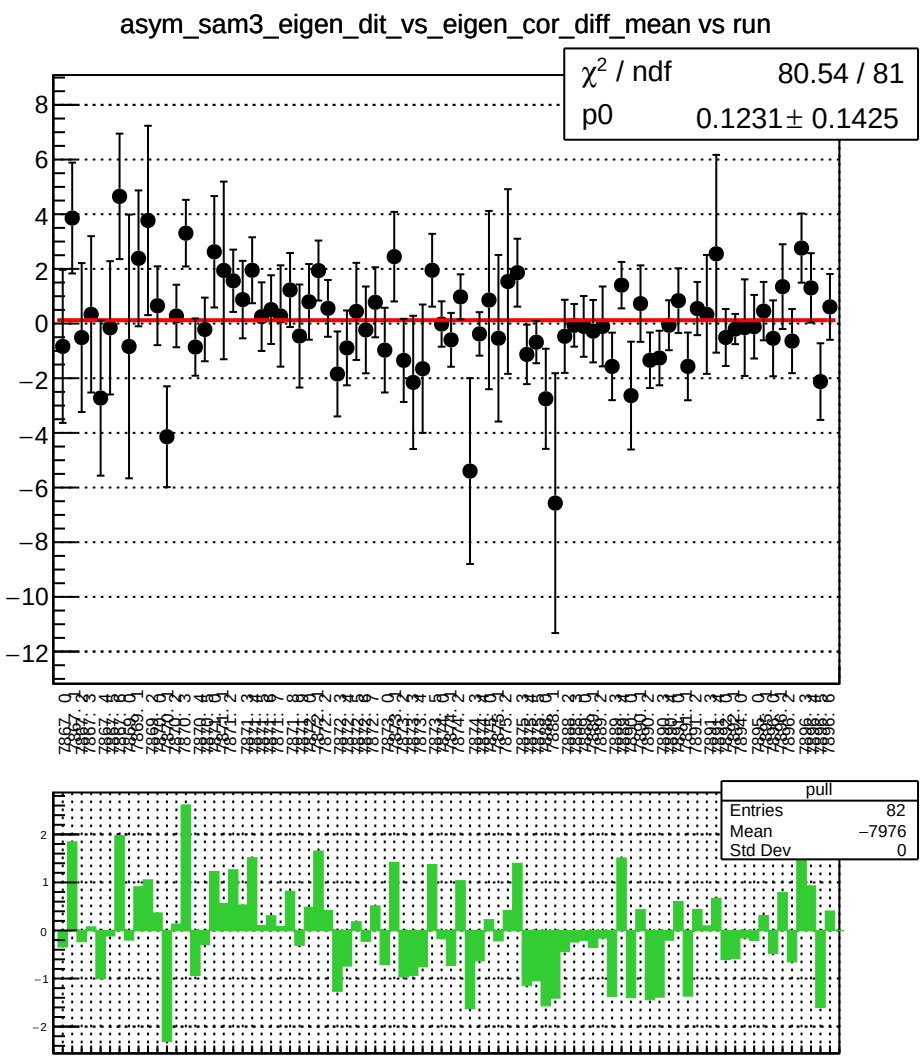

pull1D
Entries 82
Mean −0.005836
Std Dev 0.9382

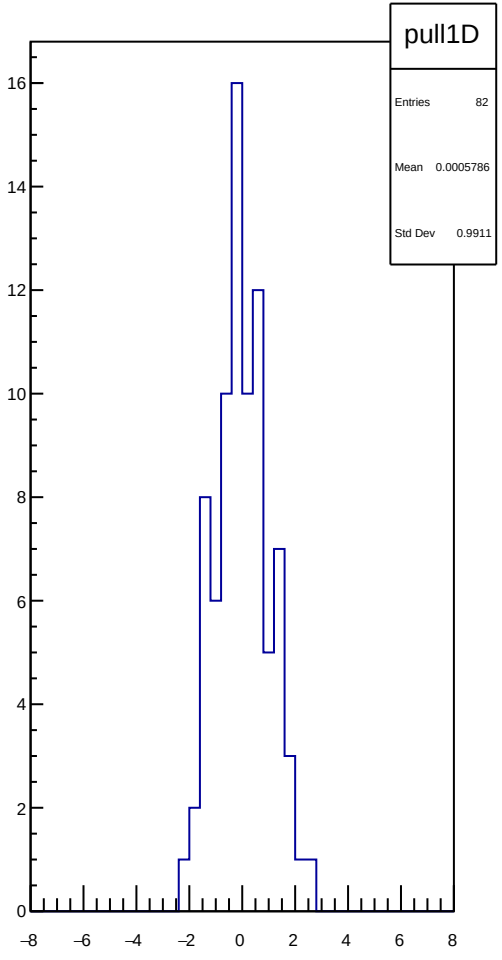

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.318e+04 / 81
p0 0.01332 ± 1.06e−05
0.018
0.016
0.014
0.012
0.01

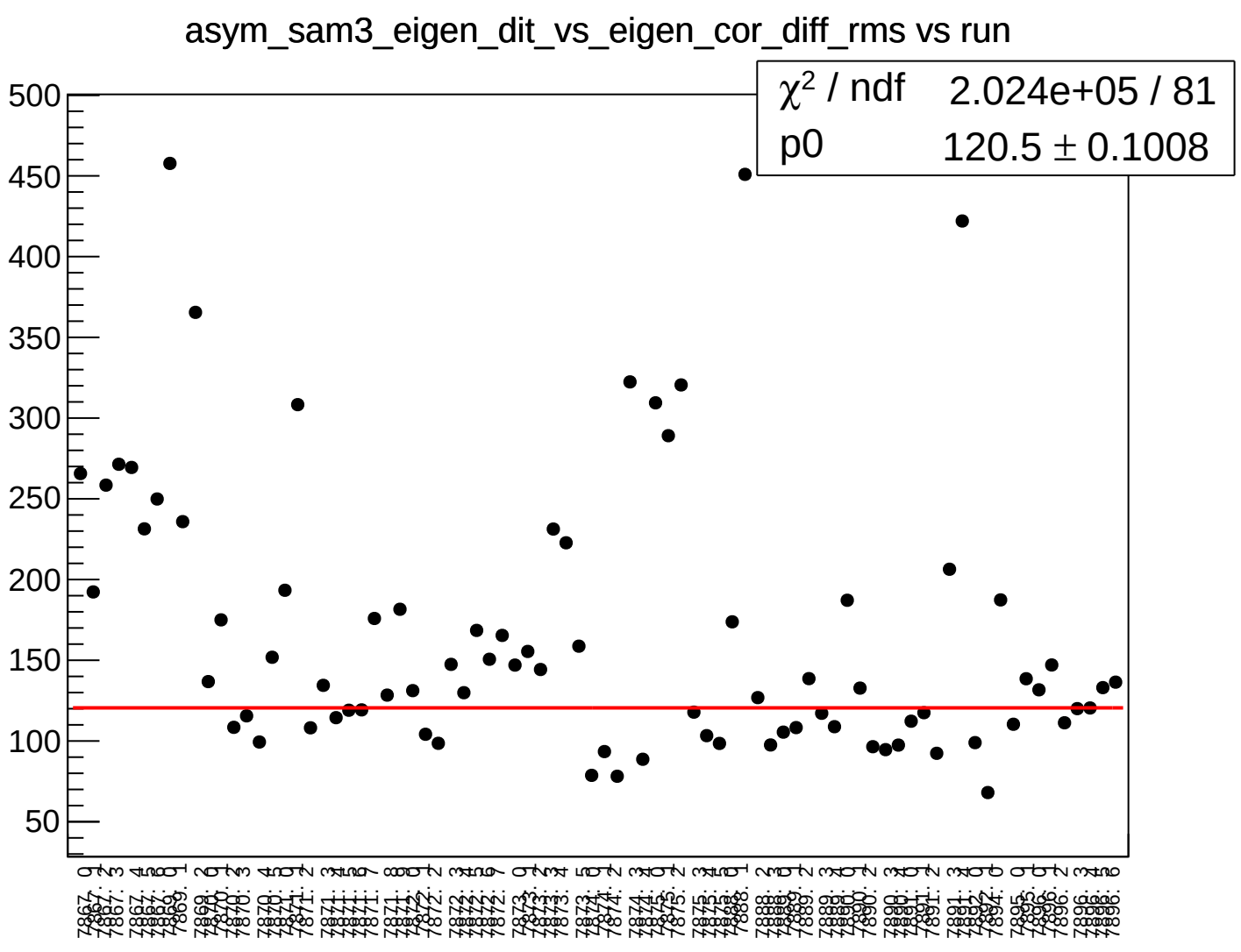

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.54 / 81
p0 0.1231± 0.1425
pull
Entries 82
Mean −7976
Std Dev 0

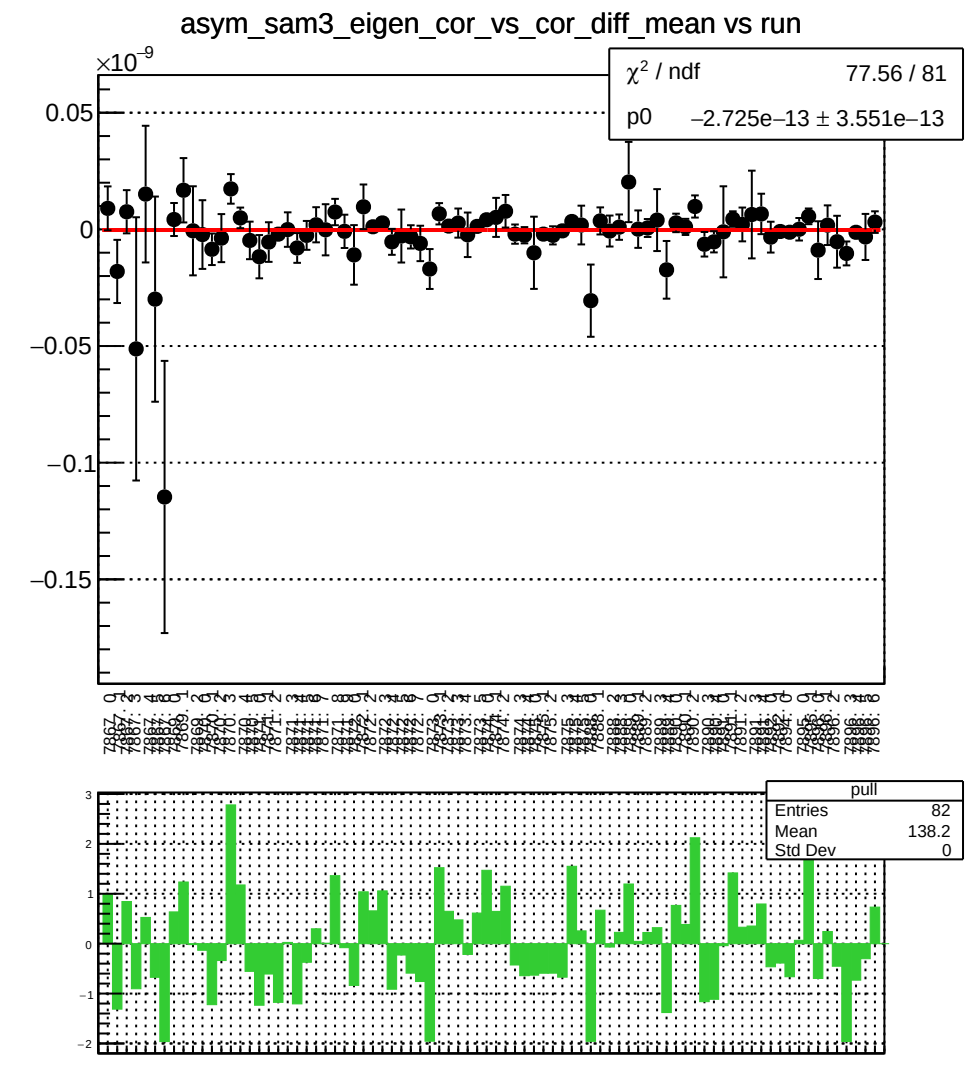

pull1D
Entries 82
Mean 0.0005786
Std Dev 0.9911

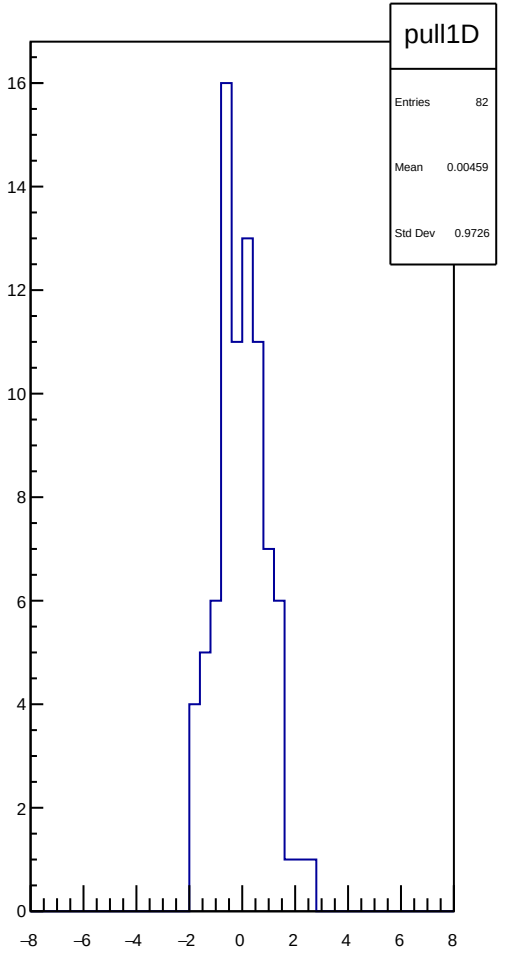

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.024e+05 / 81
p0 120.5 ± 0.1008
500
450
400
350
300
250
200
150
100
50

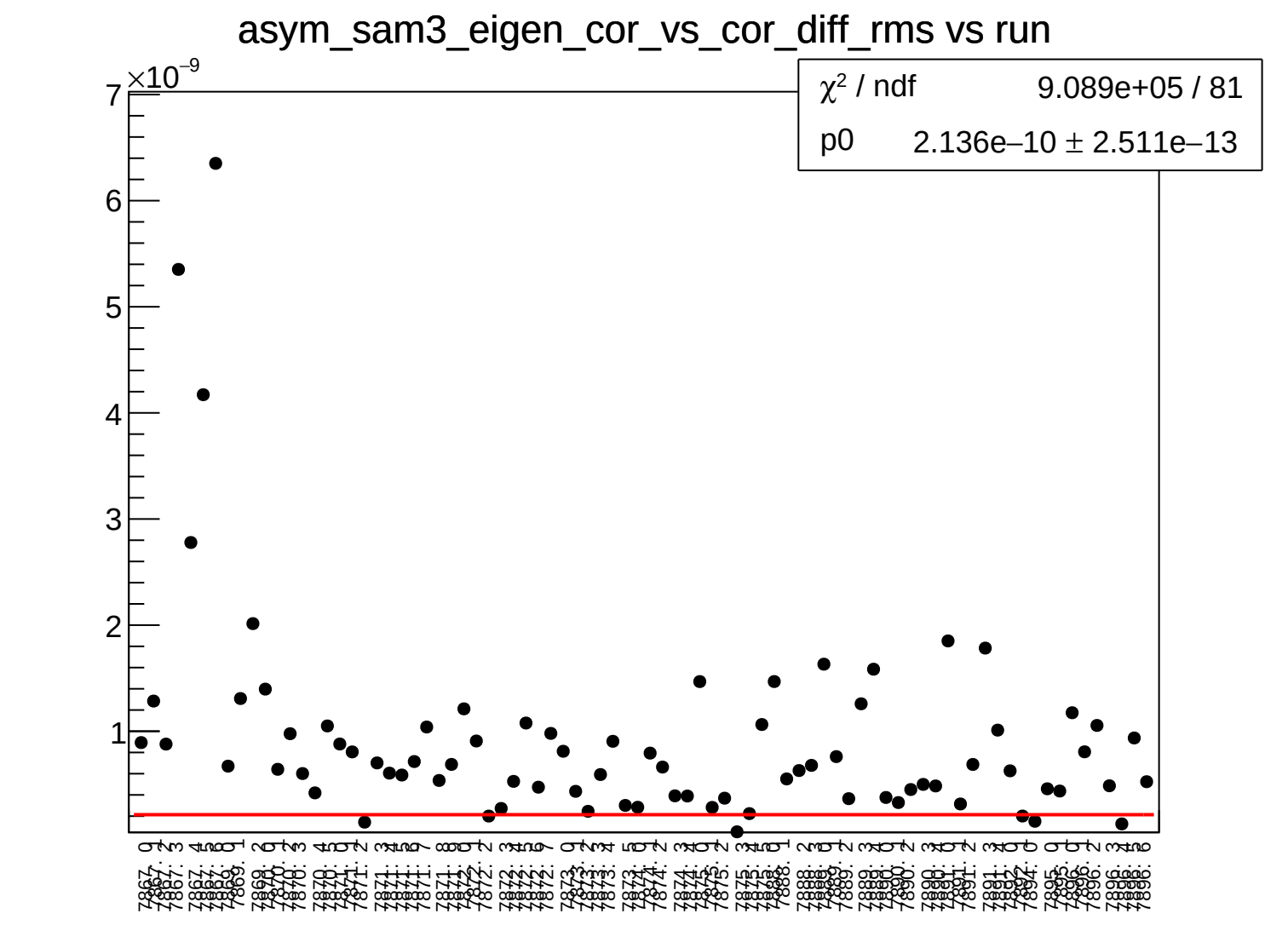

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.54 / 81
p0 0.1231± 0.1425
pull
Entries 82
Mean −7976
Std Dev 0

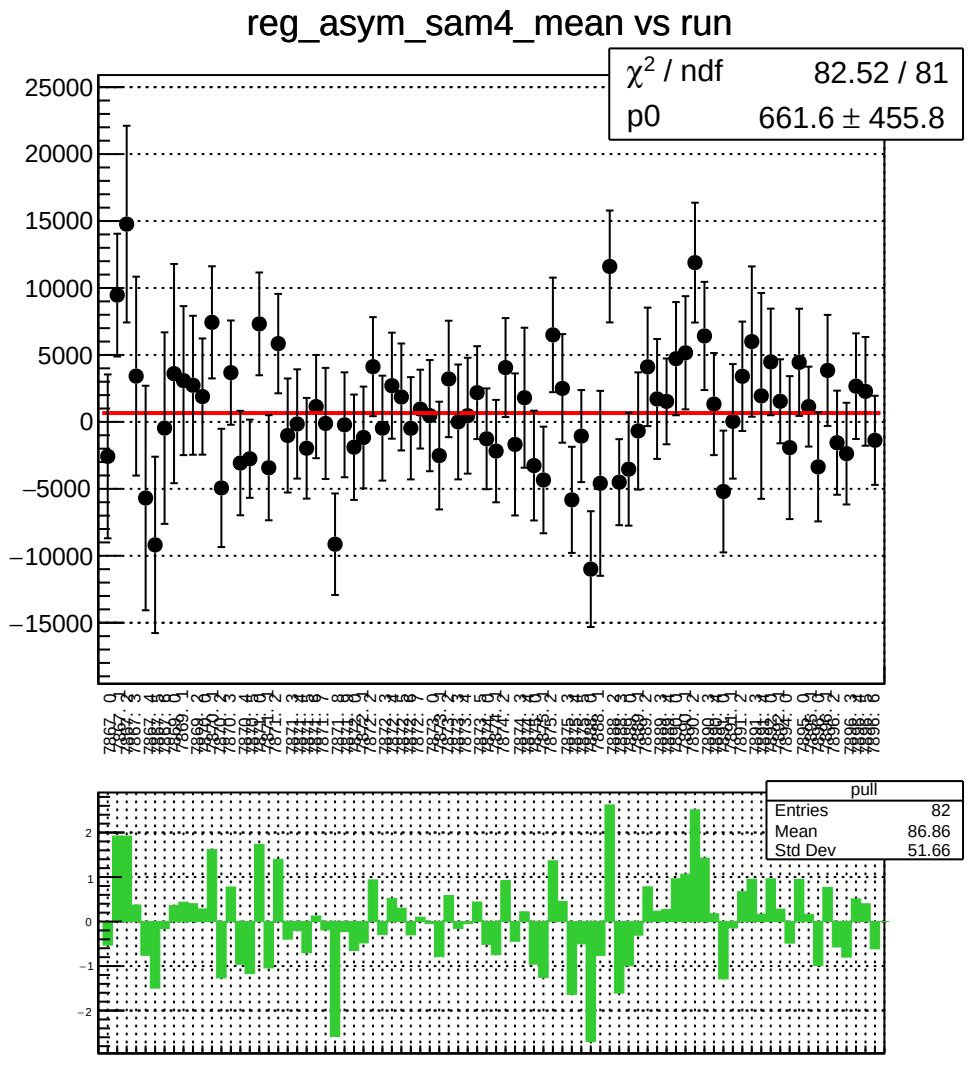

pull1D
Entries 82
Mean 0.0005786
Std Dev 0.9911

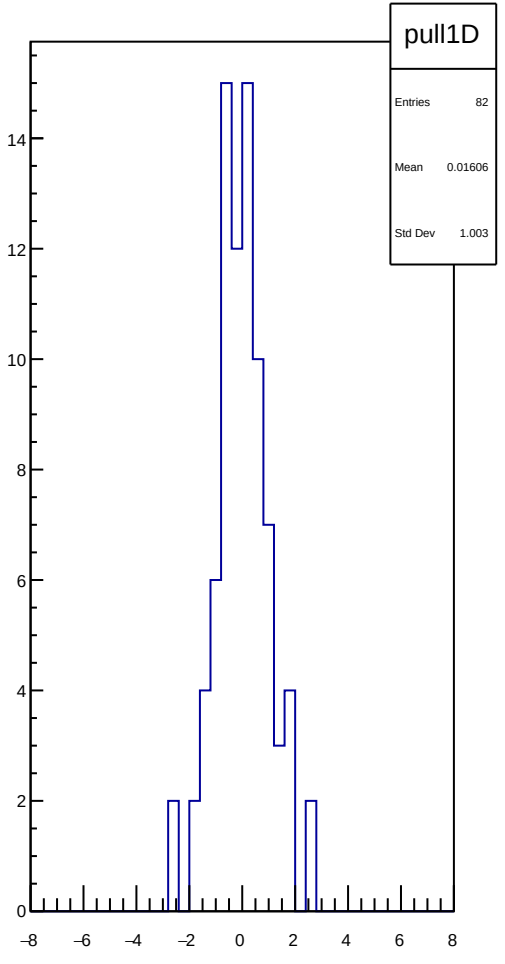

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.024e+05 / 81
p0 120.5 ± 0.1008
500
450
400
350
300
250
200
150
100
50

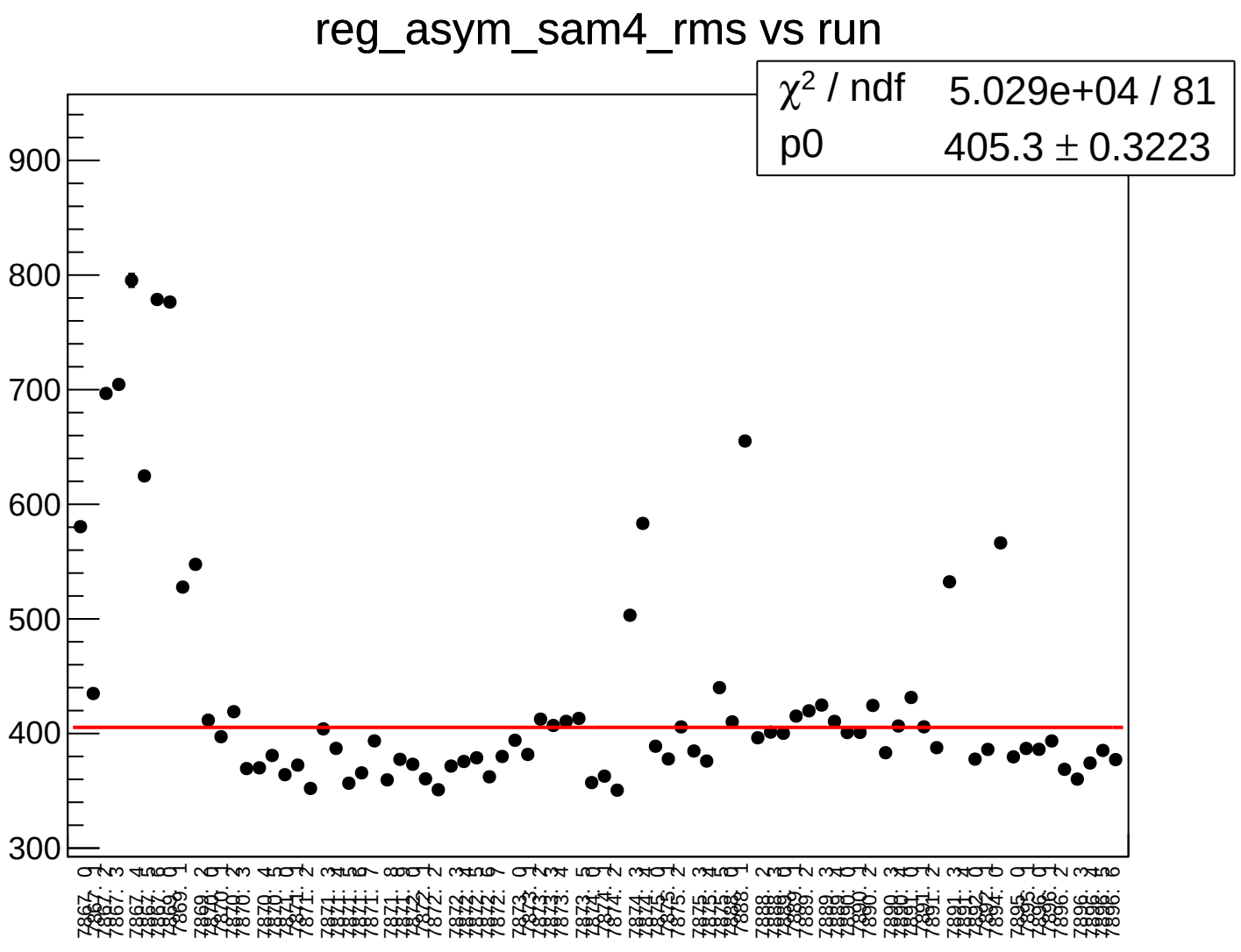

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 77.56 / 81
p0 −2.725e−13 ± 3.551e−13
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean 138.2
Std Dev 0
3
2
1
0
−1
−2

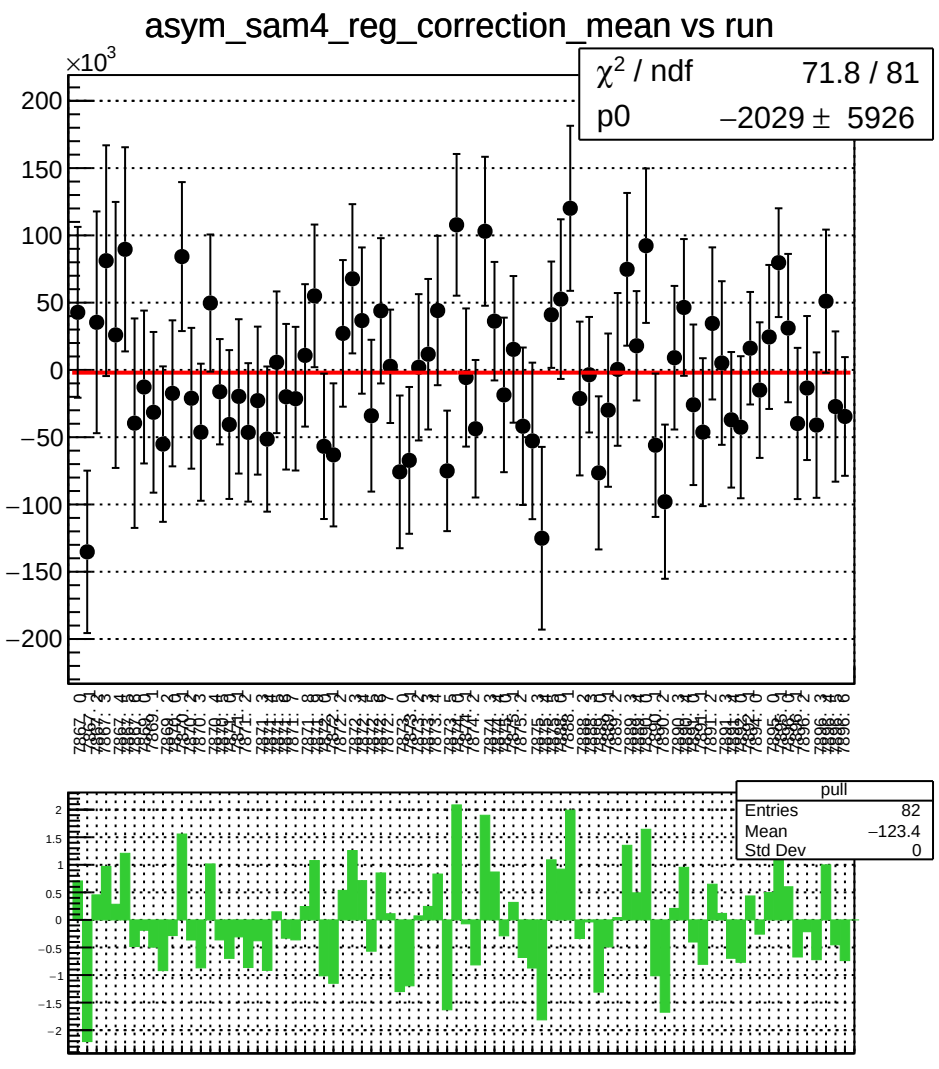

pull1D
Entries 82
Mean 0.00459
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

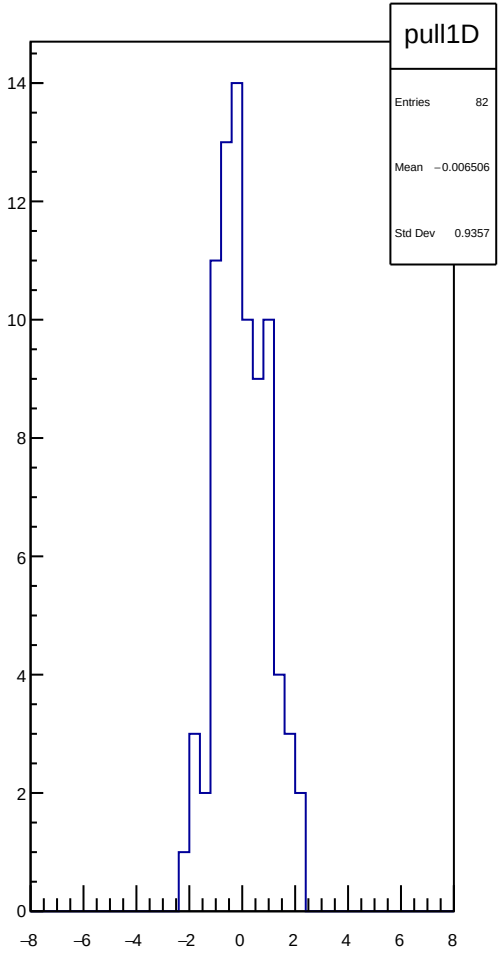

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.089e+05 / 81
p0 2.136e−10 ± 2.511e−13
7
6
5
4
3
2
1

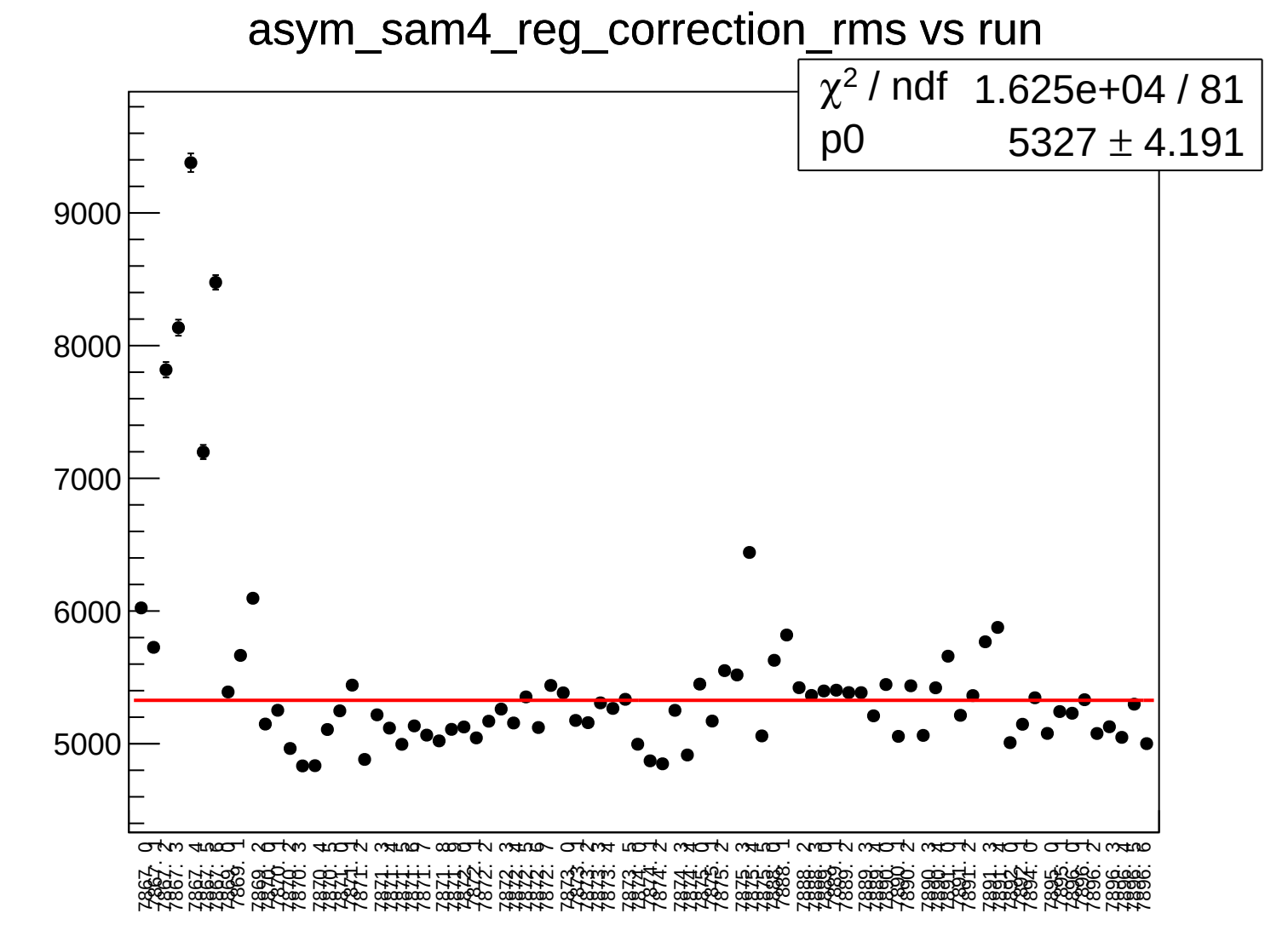

reg_asym_sam4_mean vs run
χ² / ndf 82.52 / 81
p0 661.6 ± 455.8
pull
Entries 82
Mean 86.86
Std Dev 51.66

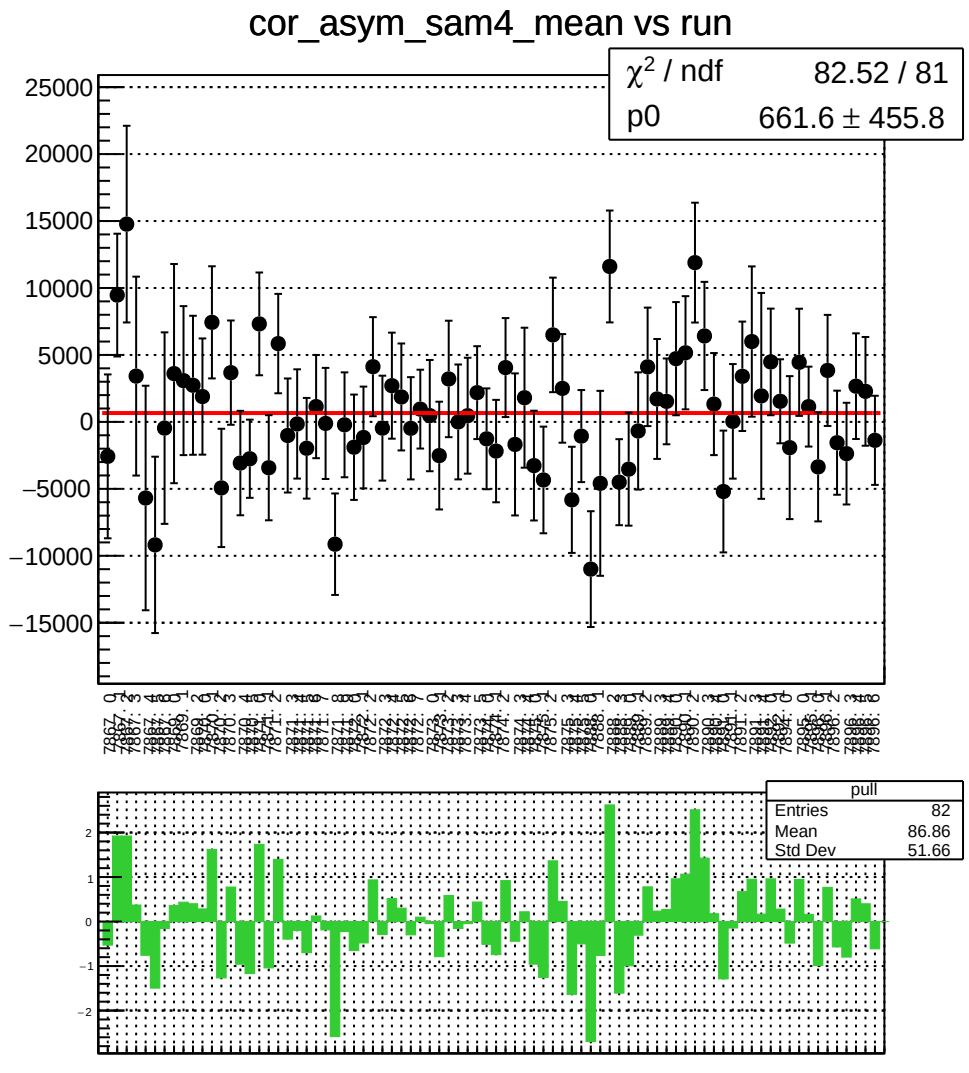

pull1D
Entries 82
Mean 0.01606
Std Dev 1.003

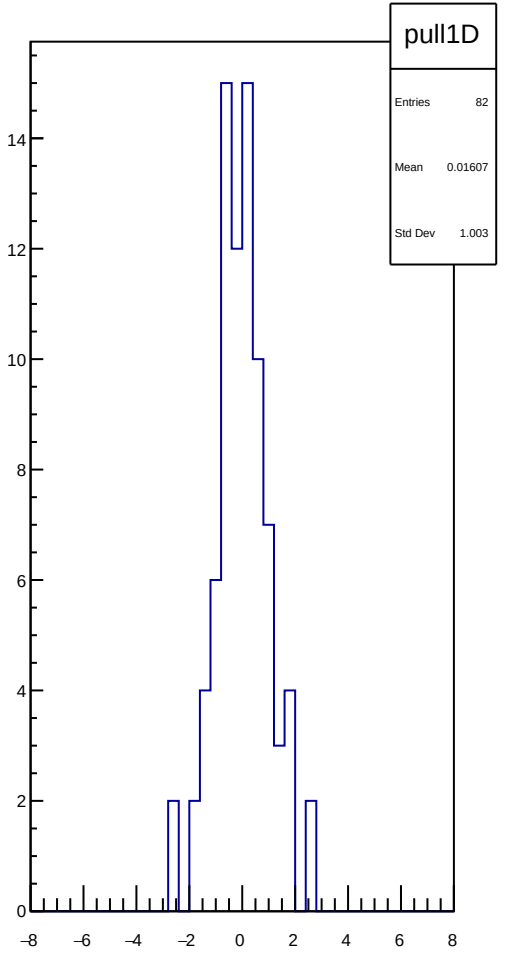

reg_asym_sam4_rms vs run
χ^2 / ndf 5.029e+04 / 81
p0 405.3 ± 0.3223
900
800
700
600
500
400
300

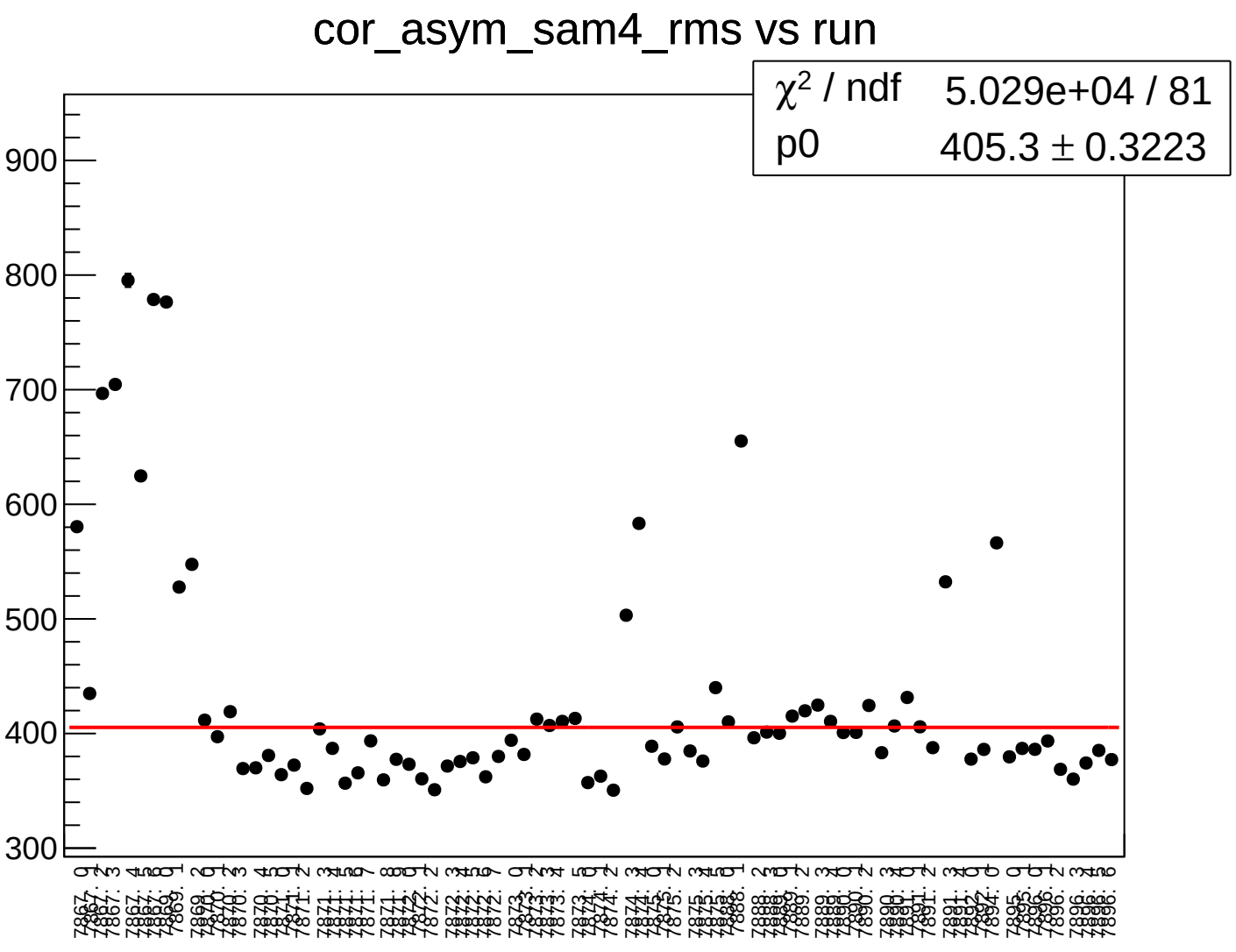

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 71.8 / 81
p0 −2029 ± 5926
pull
Entries 82
Mean −123.4
Std Dev 0

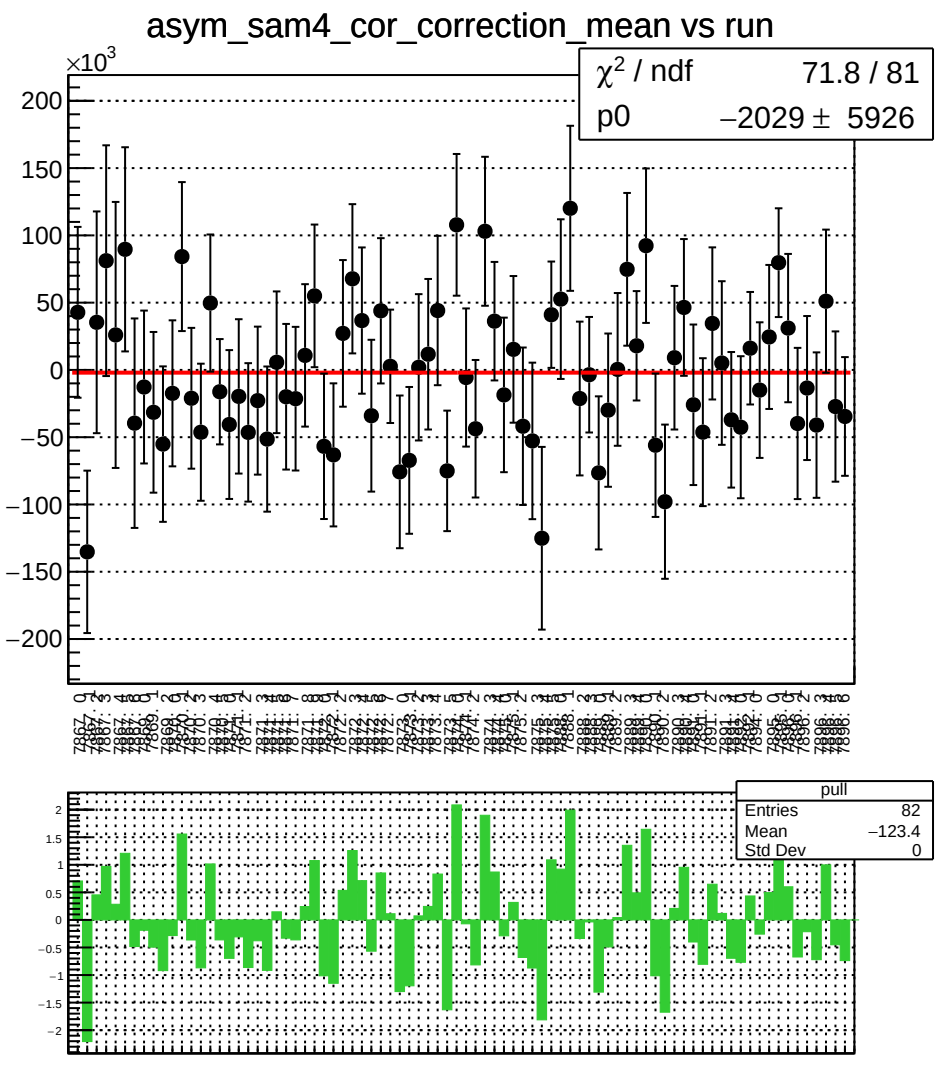

pull1D
Entries 82
Mean −0.006506
Std Dev 0.9357

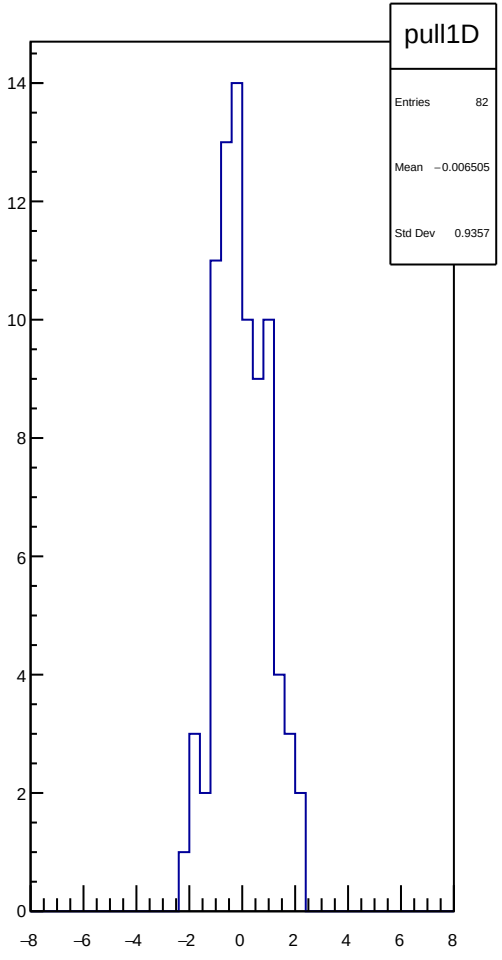

asym_sam4_reg_correction_rms vs run
χ² / ndf 1.625e+04 / 81
p0 5327 ± 4.191
9000
8000
7000
6000
5000

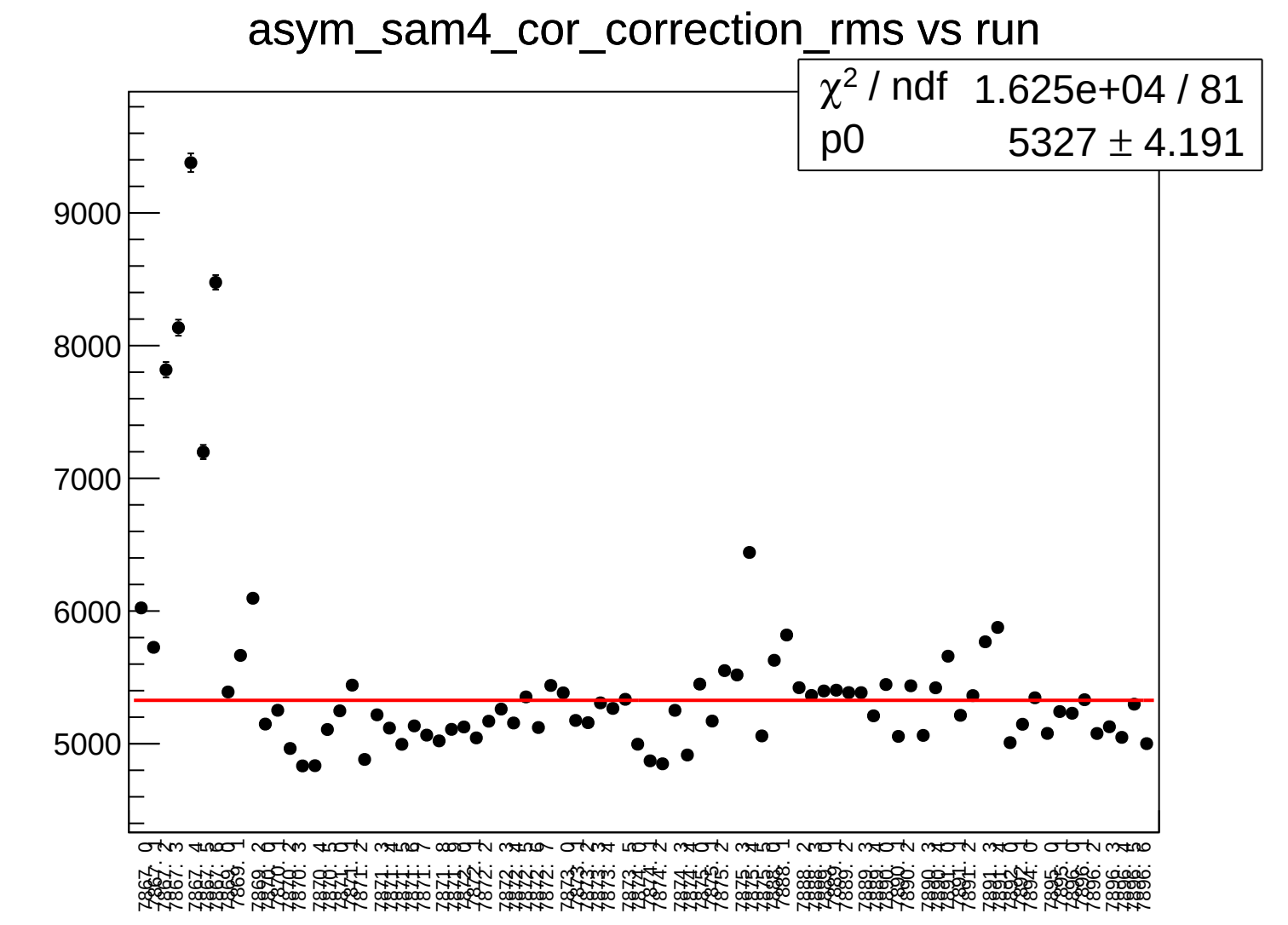

cor_asym_sam4_mean vs run
χ² / ndf 82.52 / 81
p0 661.6 ± 455.8
pull
Entries 82
Mean 86.86
Std Dev 51.66

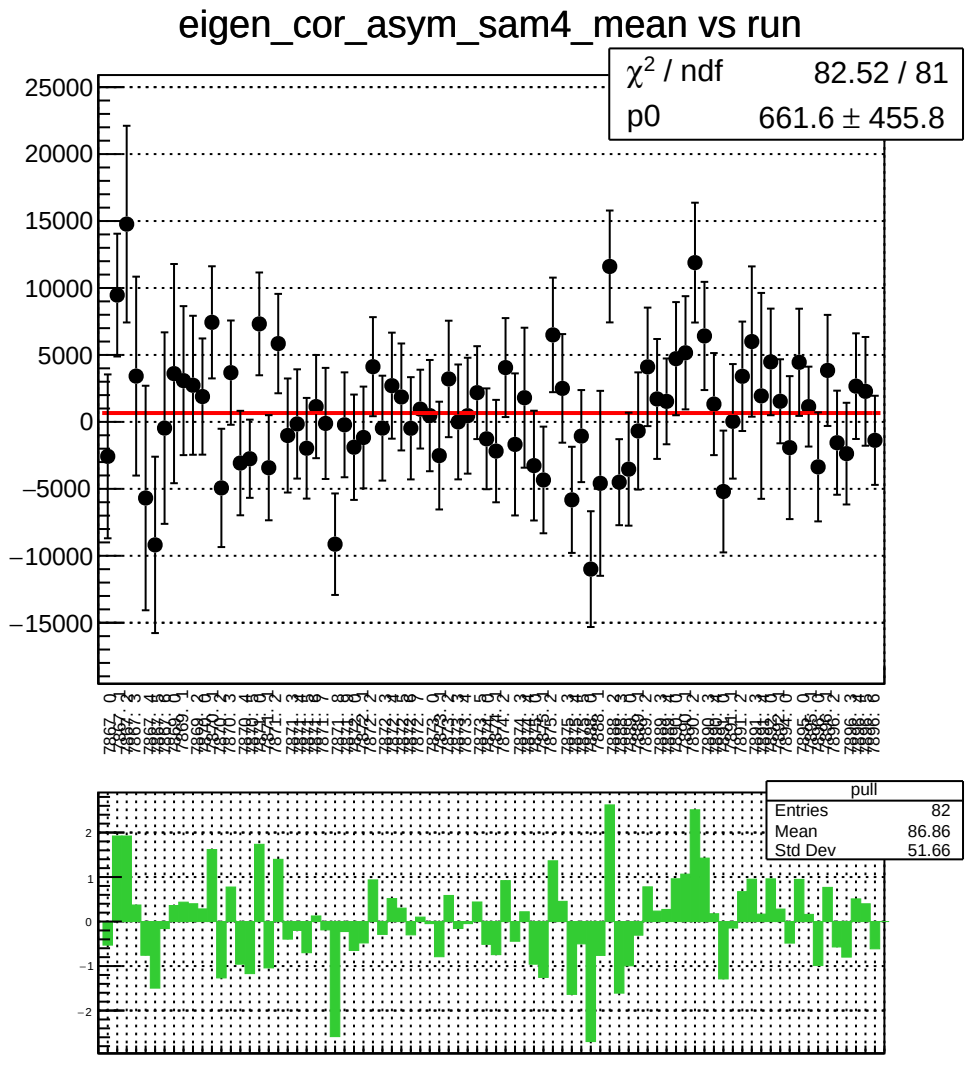

pull1D
Entries 82
Mean 0.01607
Std Dev 1.003

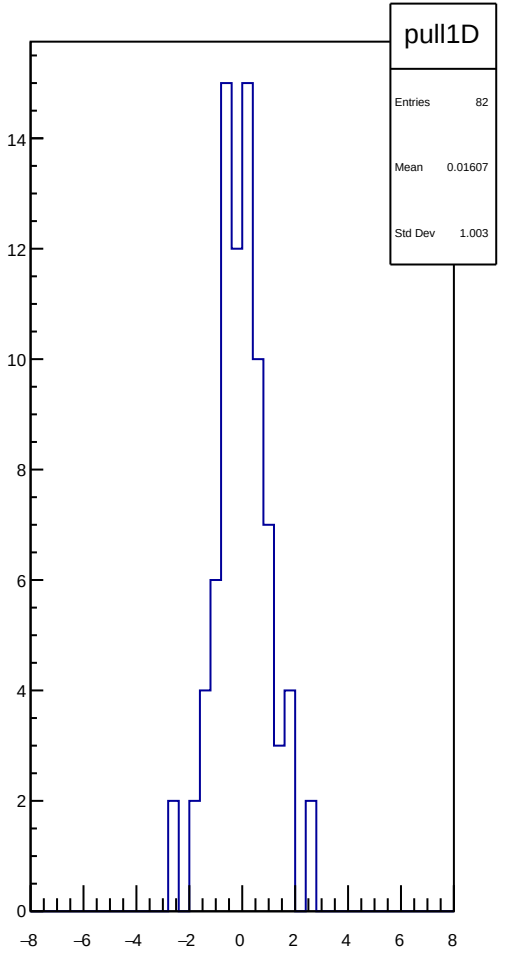

cor_asym_sam4_rms vs run
χ^2 / ndf 5.029e+04 / 81
p0 405.3 ± 0.3223
900
800
700
600
500
400
300

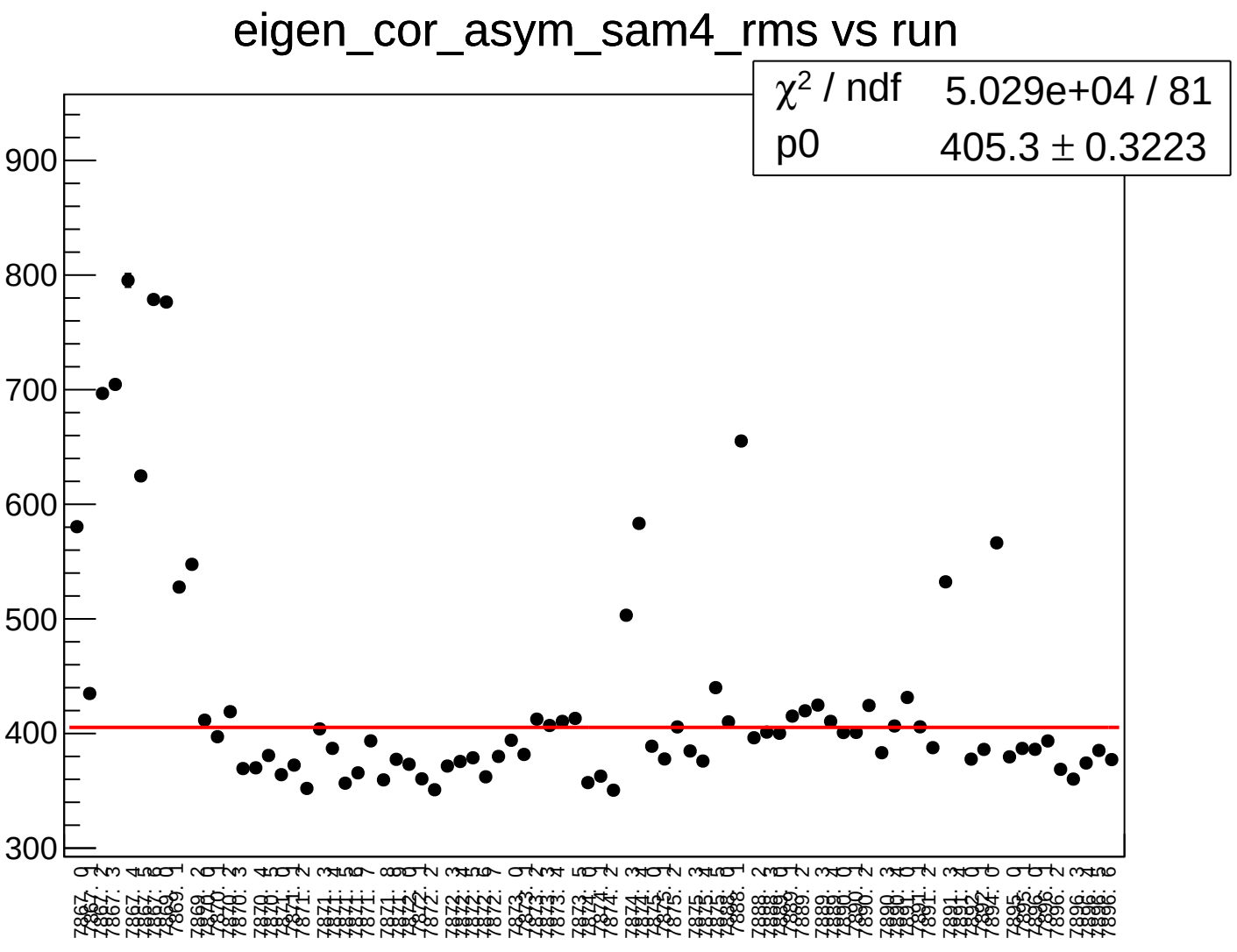

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 71.8 / 81
p0 −2029 ± 5926
pull
Entries 82
Mean −123.4
Std Dev 0

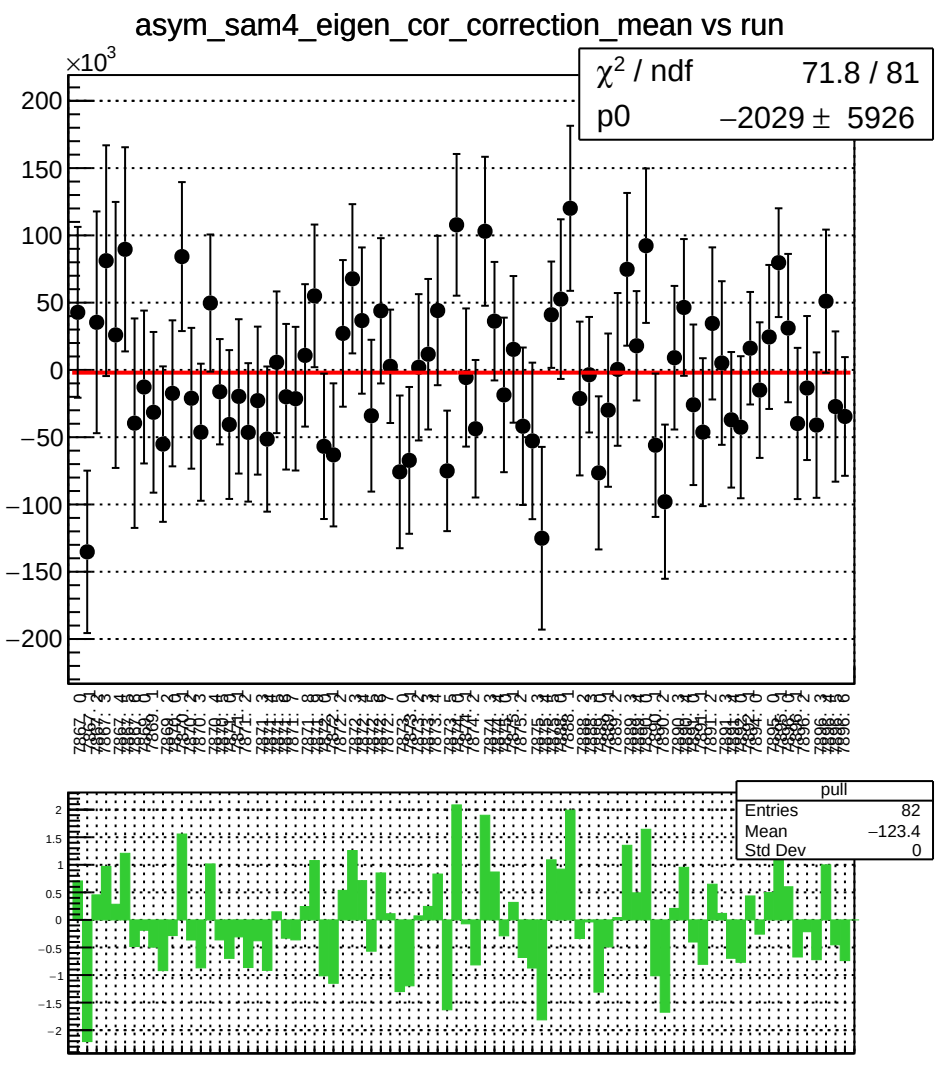

pull1D
Entries 82
Mean −0.006505
Std Dev 0.9357

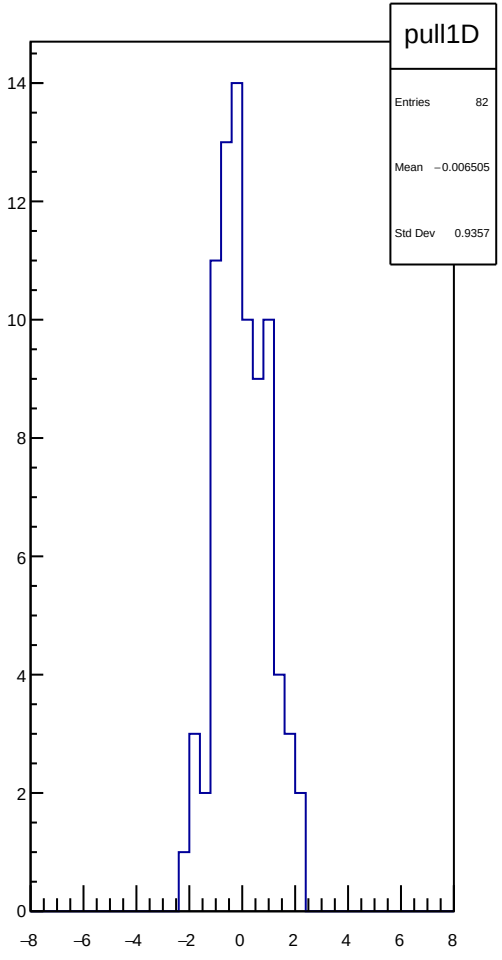

asym_sam4_cor_correction_rms vs run
χ^2 / ndf 1.625e+04 / 81
p0 5327 ± 4.191
9000
8000
7000
6000
5000

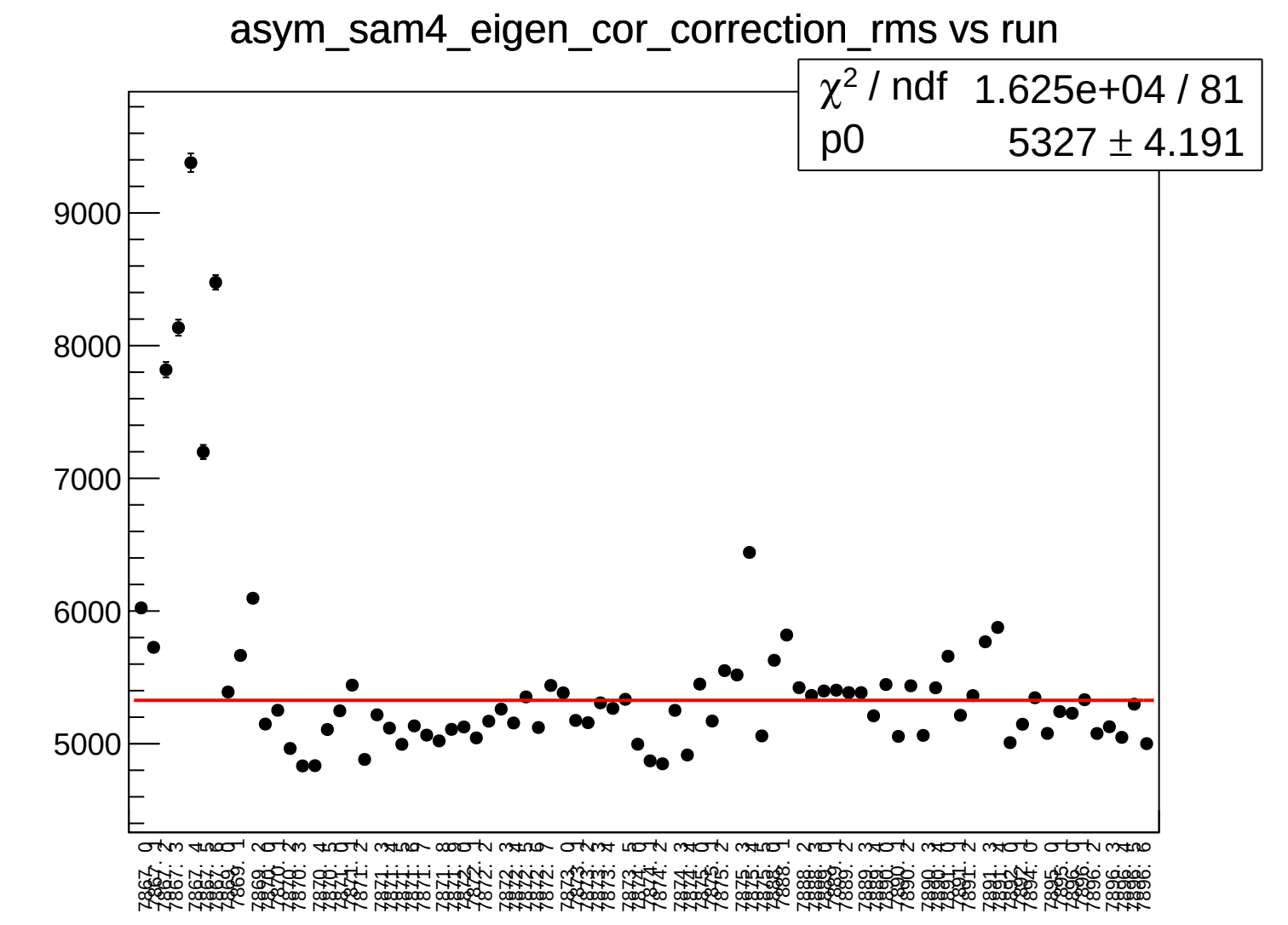

eigen_cor_asym_sam4_mean vs run
χ² / ndf 82.52 / 81
p0 661.6 ± 455.8
pull
Entries 82
Mean 86.86
Std Dev 51.66

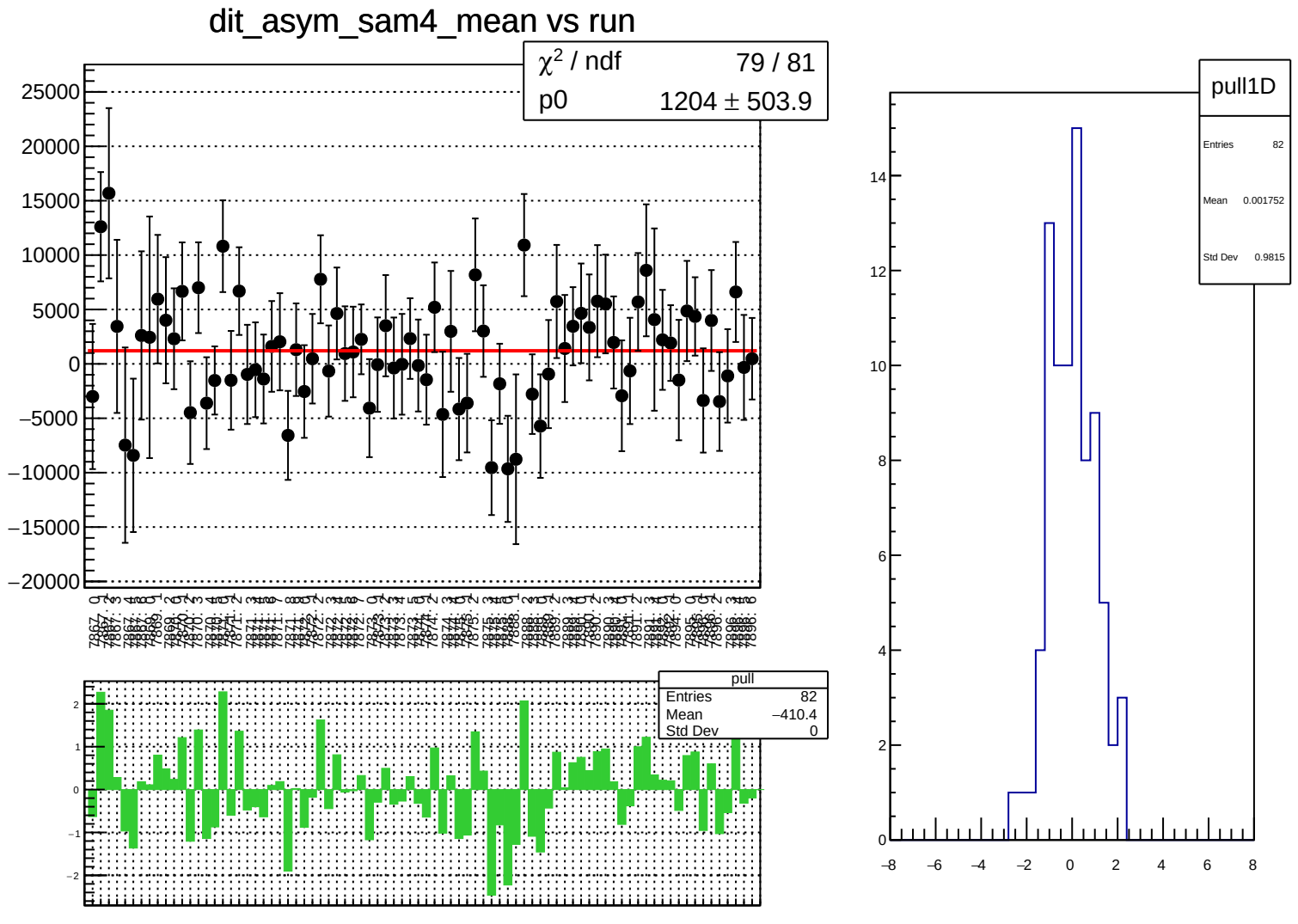

pull1D
Entries 82
Mean 0.01607
Std Dev 1.003

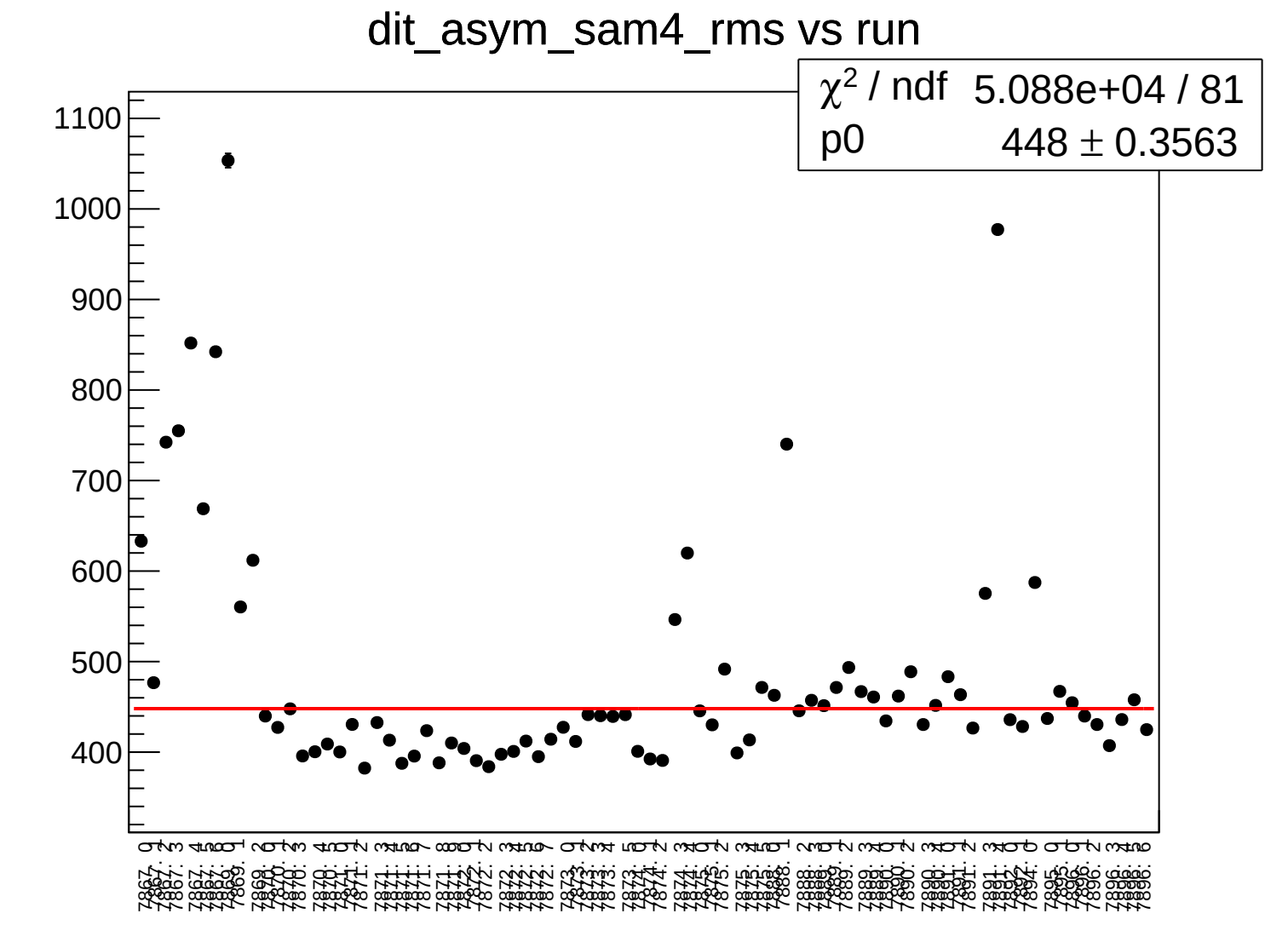

eigen_cor_asym_sam4_rms vs run
χ² / ndf 5.029e+04 / 81
p0 405.3 ± 0.3223
900
800
700
600
500
400
300

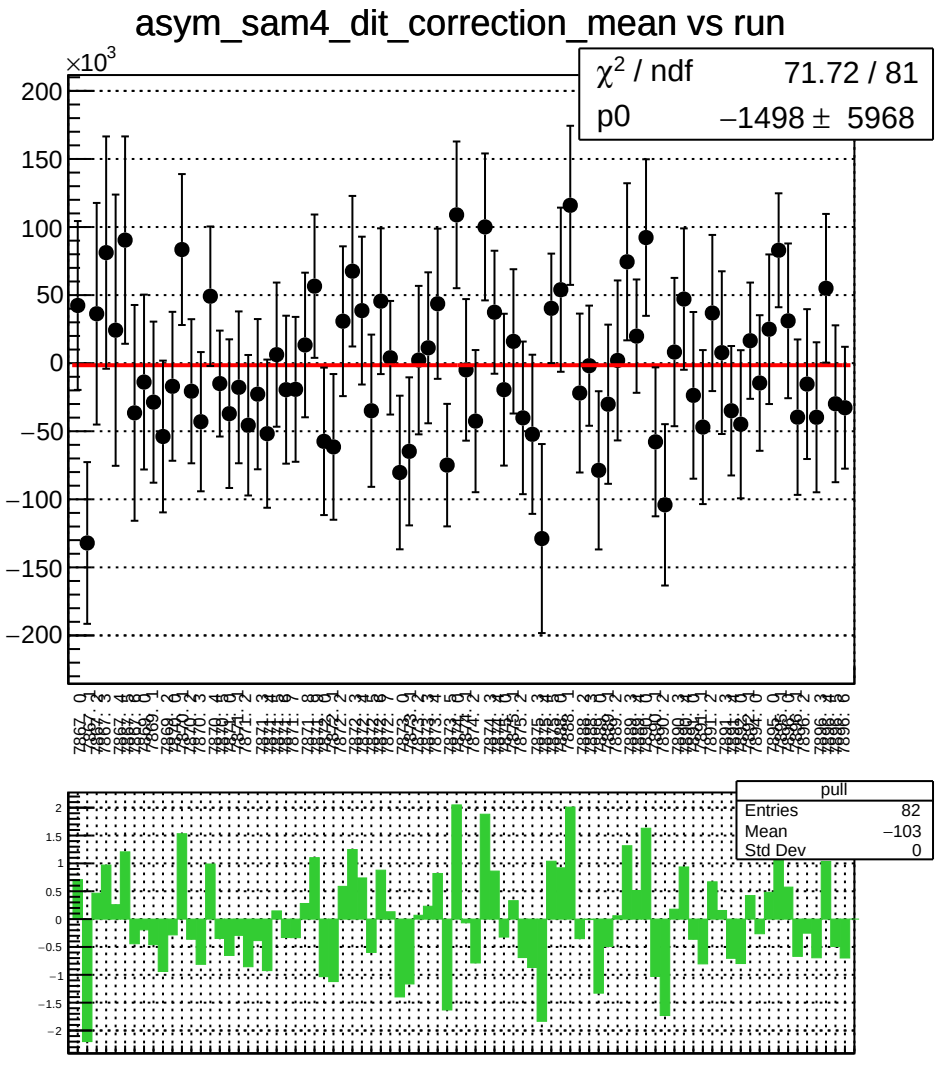

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.8 / 81
p0 −2029 ± 5926
pull
Entries 82
Mean −123.4
Std Dev 0

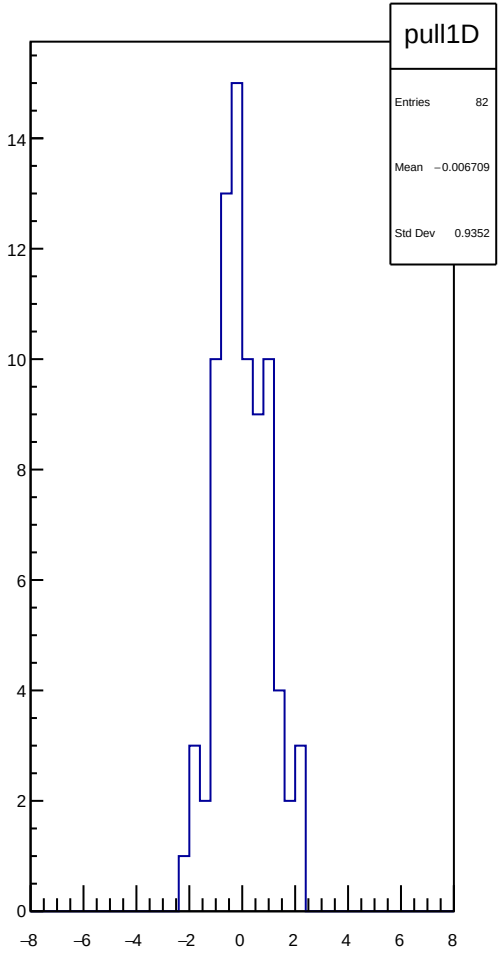

pull1D
Entries 82
Mean −0.006505
Std Dev 0.9357

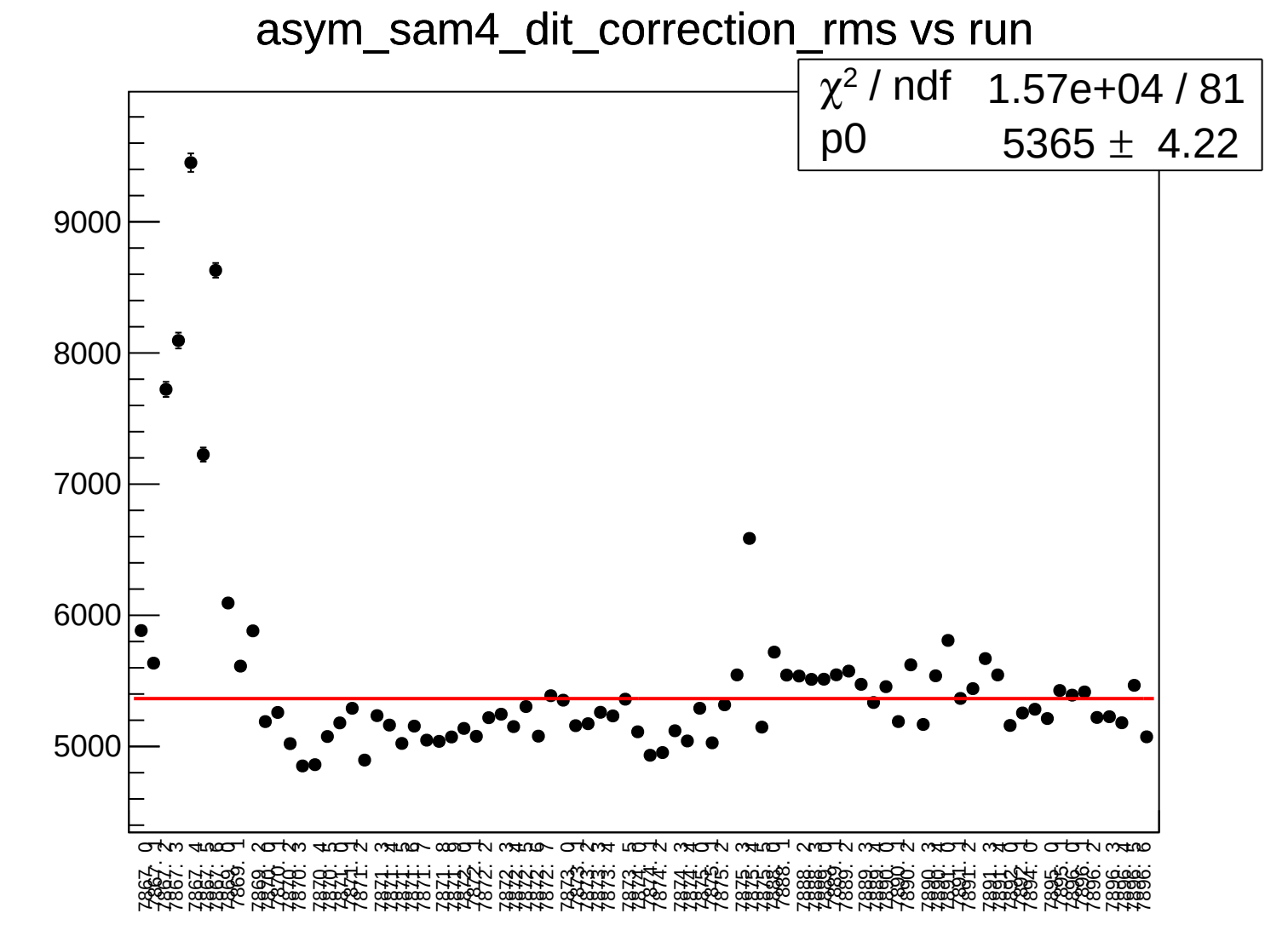

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 1.625e+04 / 81
p0 5327 ± 4.191
9000
8000
7000
6000
5000

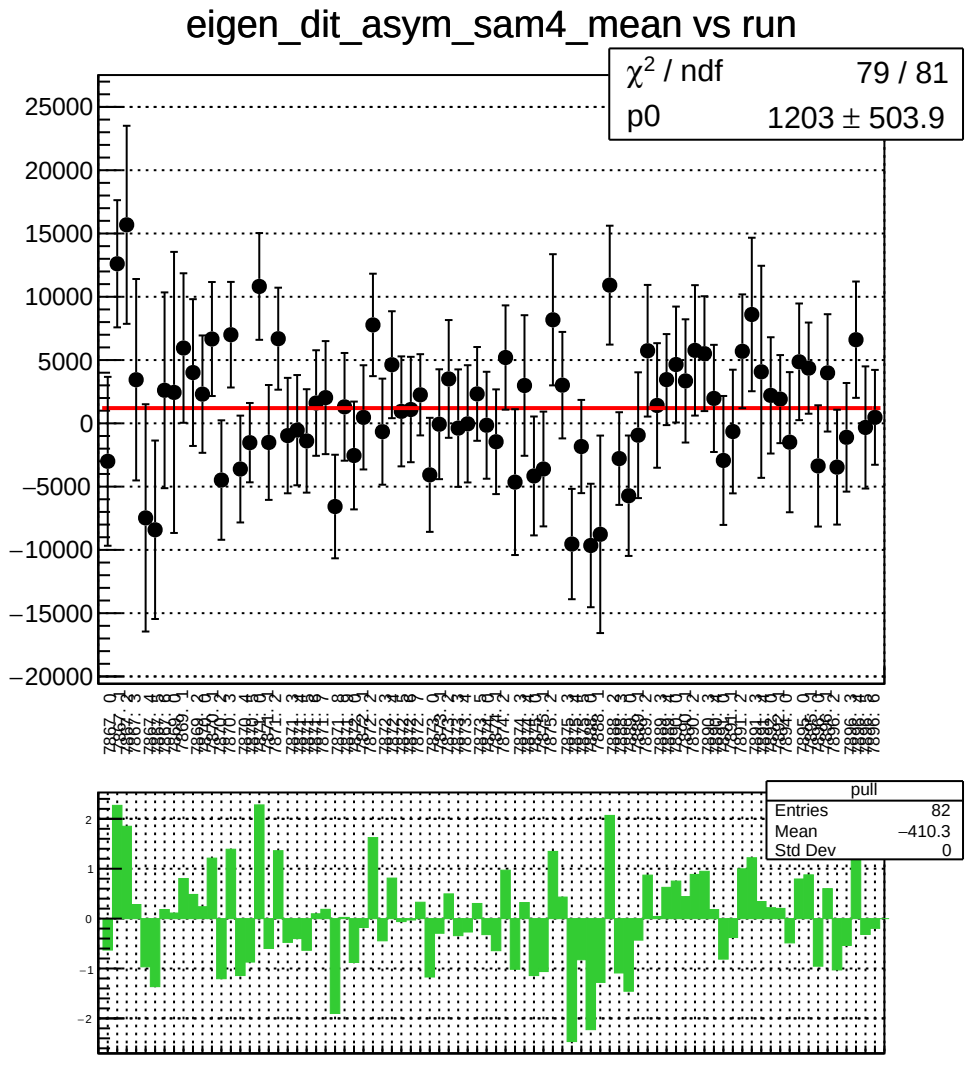

dit_asym_sam4_mean vs run
χ² / ndf 79 / 81
p0 1204 ± 503.9
pull
Entries 82
Mean −410.4
Std Dev 0
pull1D
Entries 82
Mean 0.001752
Std Dev 0.9815

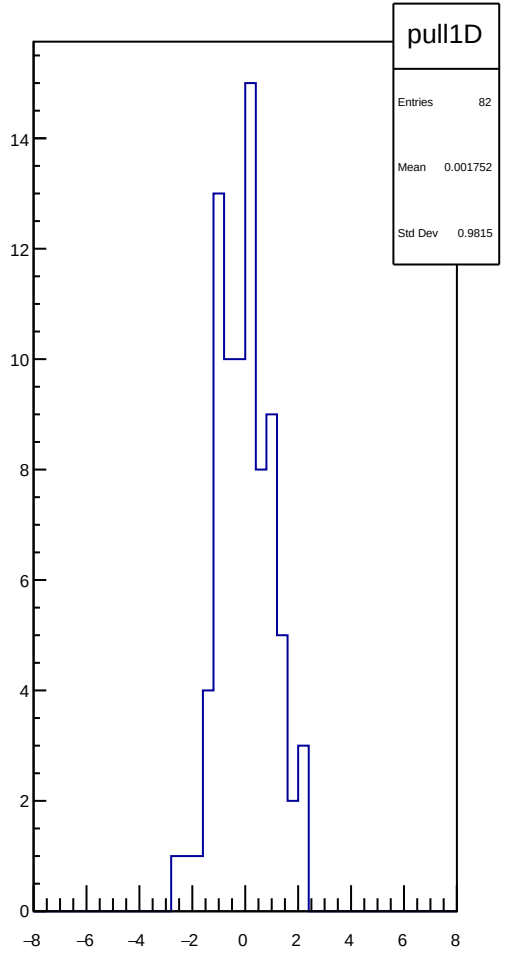

dit_asym_sam4_rms vs run
χ² / ndf 5.088e+04 / 81
p0 448 ± 0.3563
1100
1000
900
800
700
600
500
400

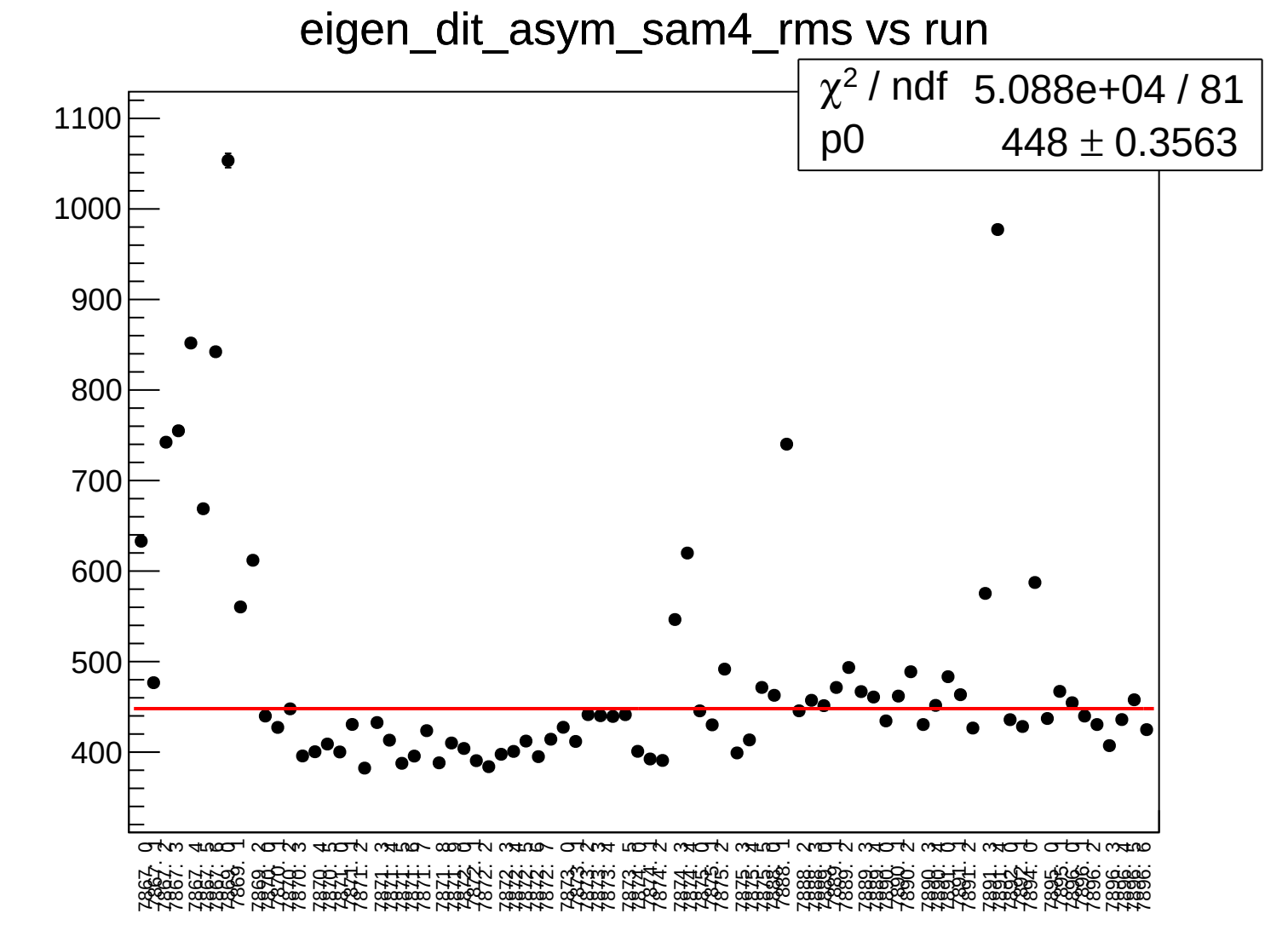

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 71.72 / 81
p0 −1498 ± 5968
pull
Entries 82
Mean −103
Std Dev 0

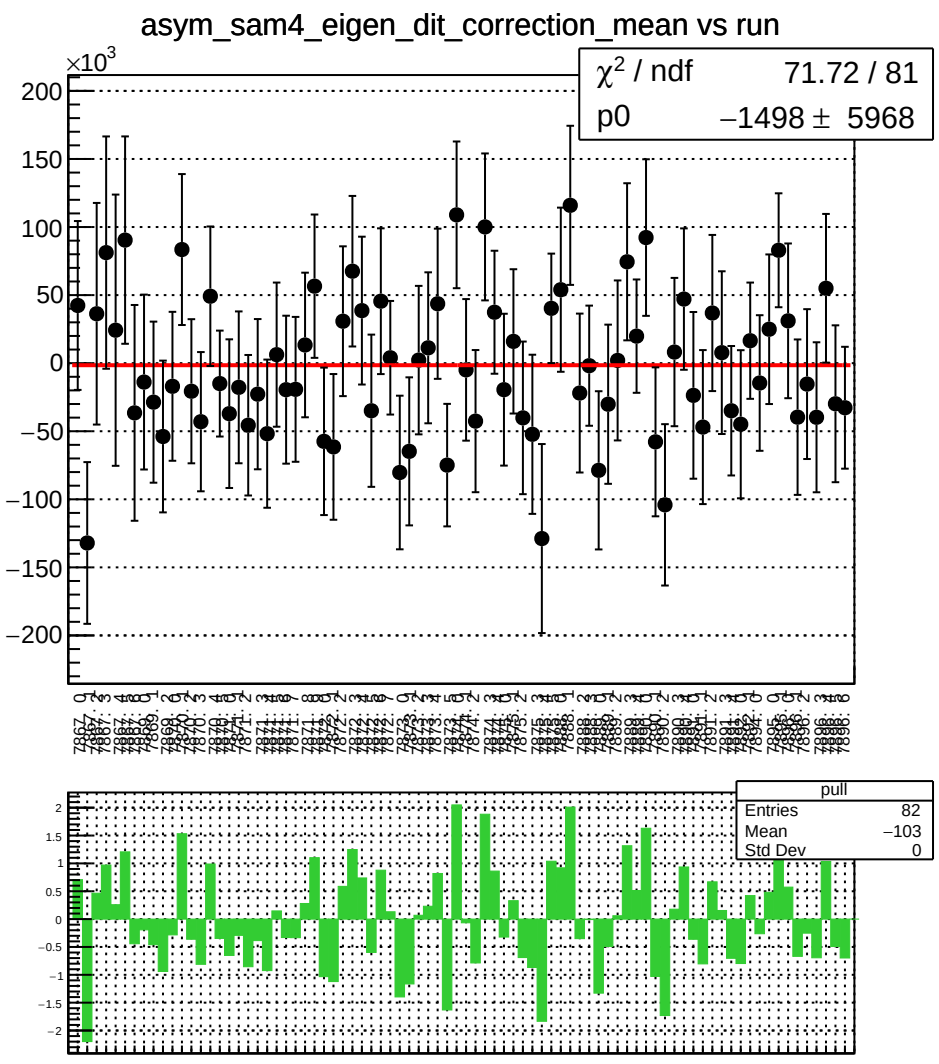

pull1D
Entries 82
Mean −0.006709
Std Dev 0.9352

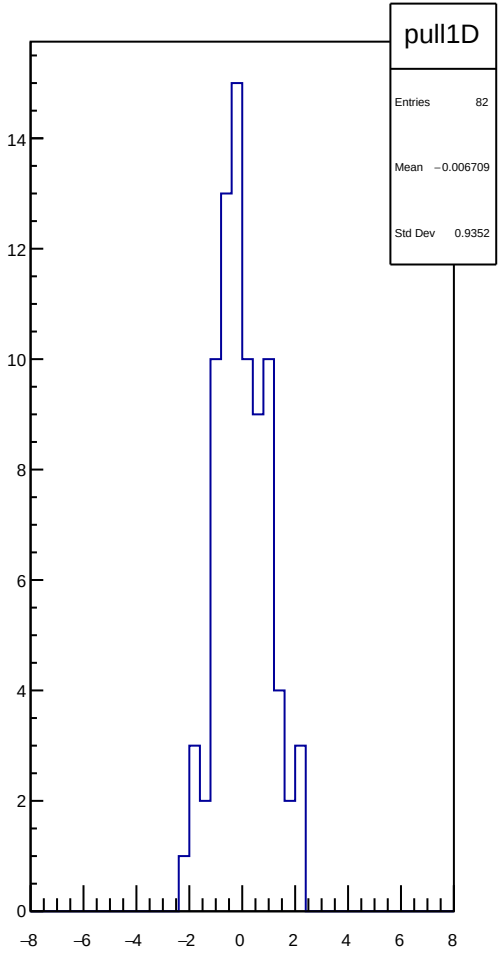

asym_sam4_dit_correction_rms vs run
χ^2 / ndf 1.57e+04 / 81
p0 5365 ± 4.22
9000
8000
7000
6000
5000

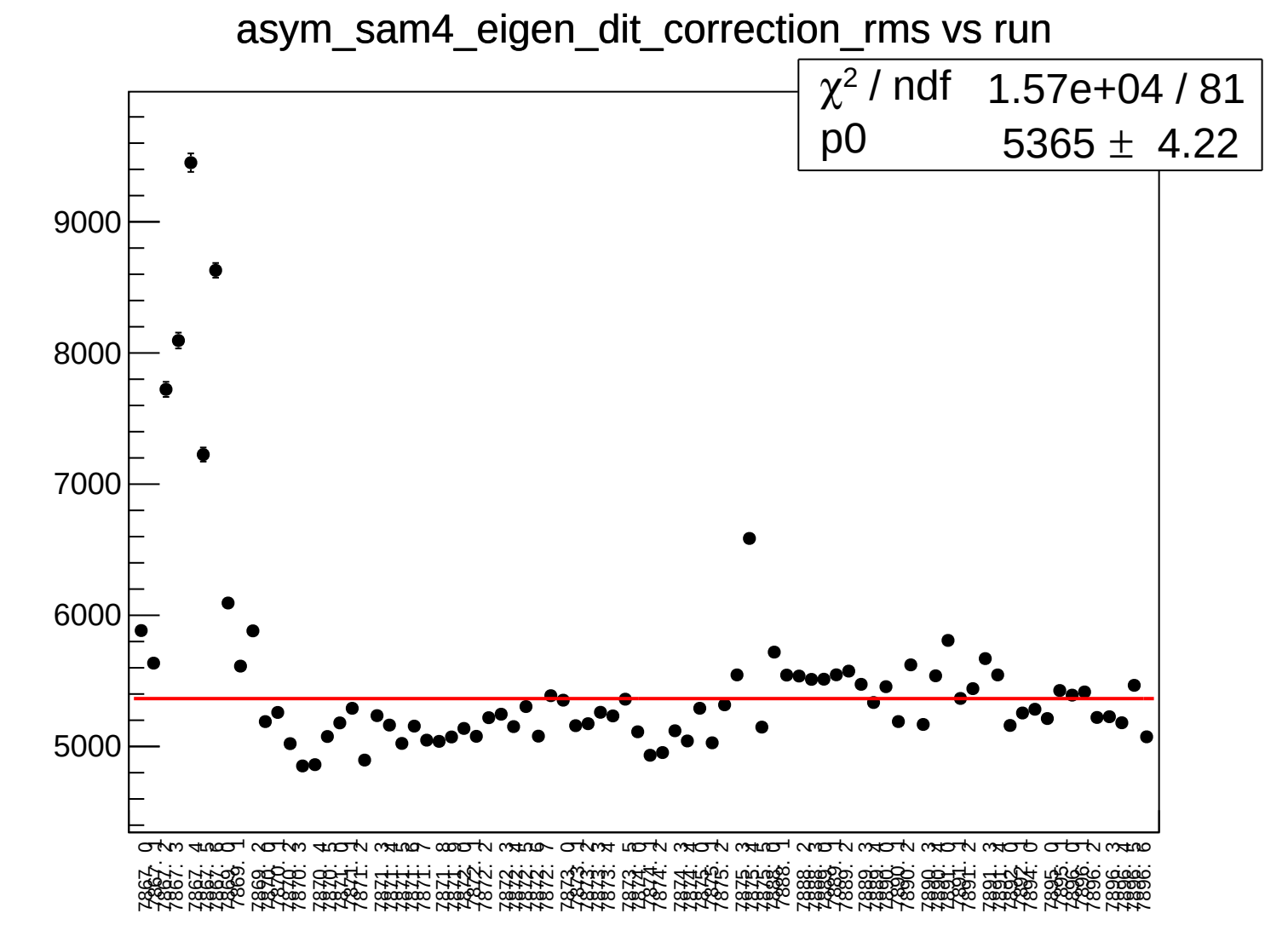

eigen_dit_asym_sam4_mean vs run
χ² / ndf 79 / 81
p0 1203 ± 503.9
pull
Entries 82
Mean −410.3
Std Dev 0

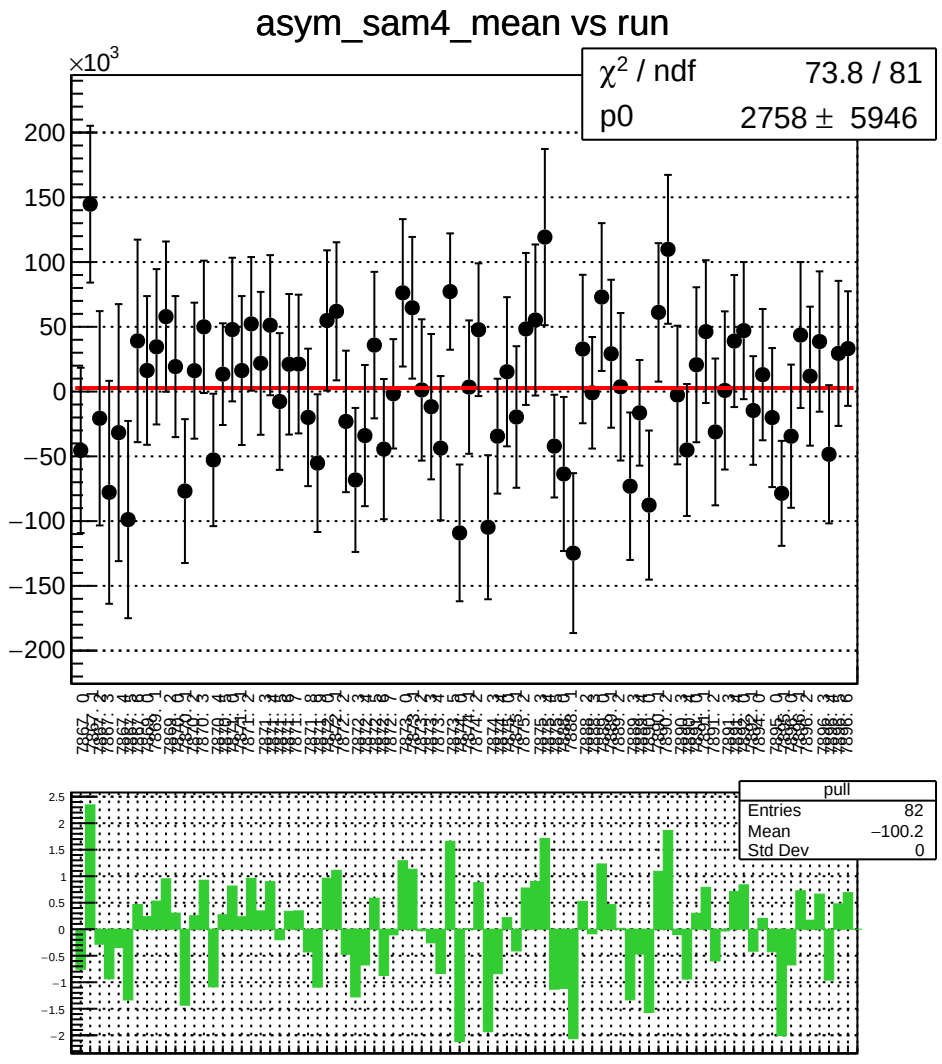

pull1D
Entries 82
Mean 0.001752
Std Dev 0.9815

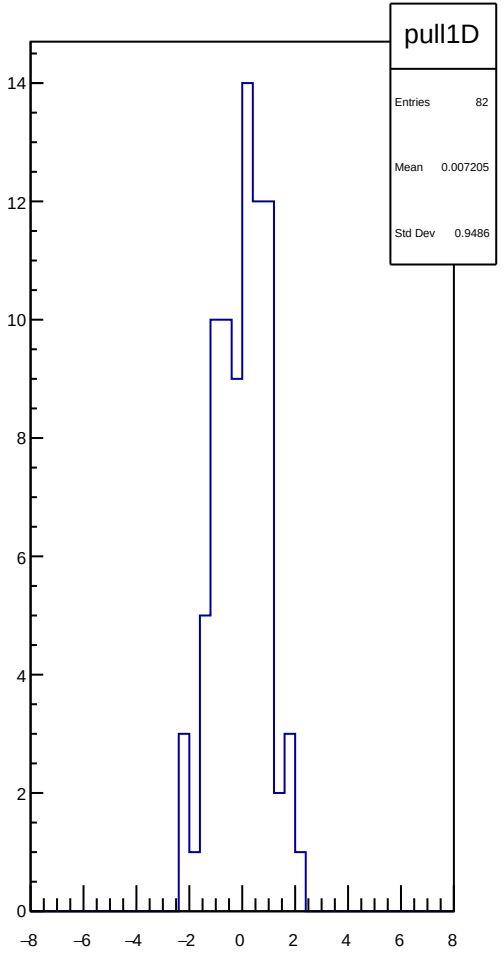

eigen_dit_asym_sam4_rms vs run
χ² / ndf 5.088e+04 / 81
p0 448 ± 0.3563
1100
1000
900
800
700
600
500
400

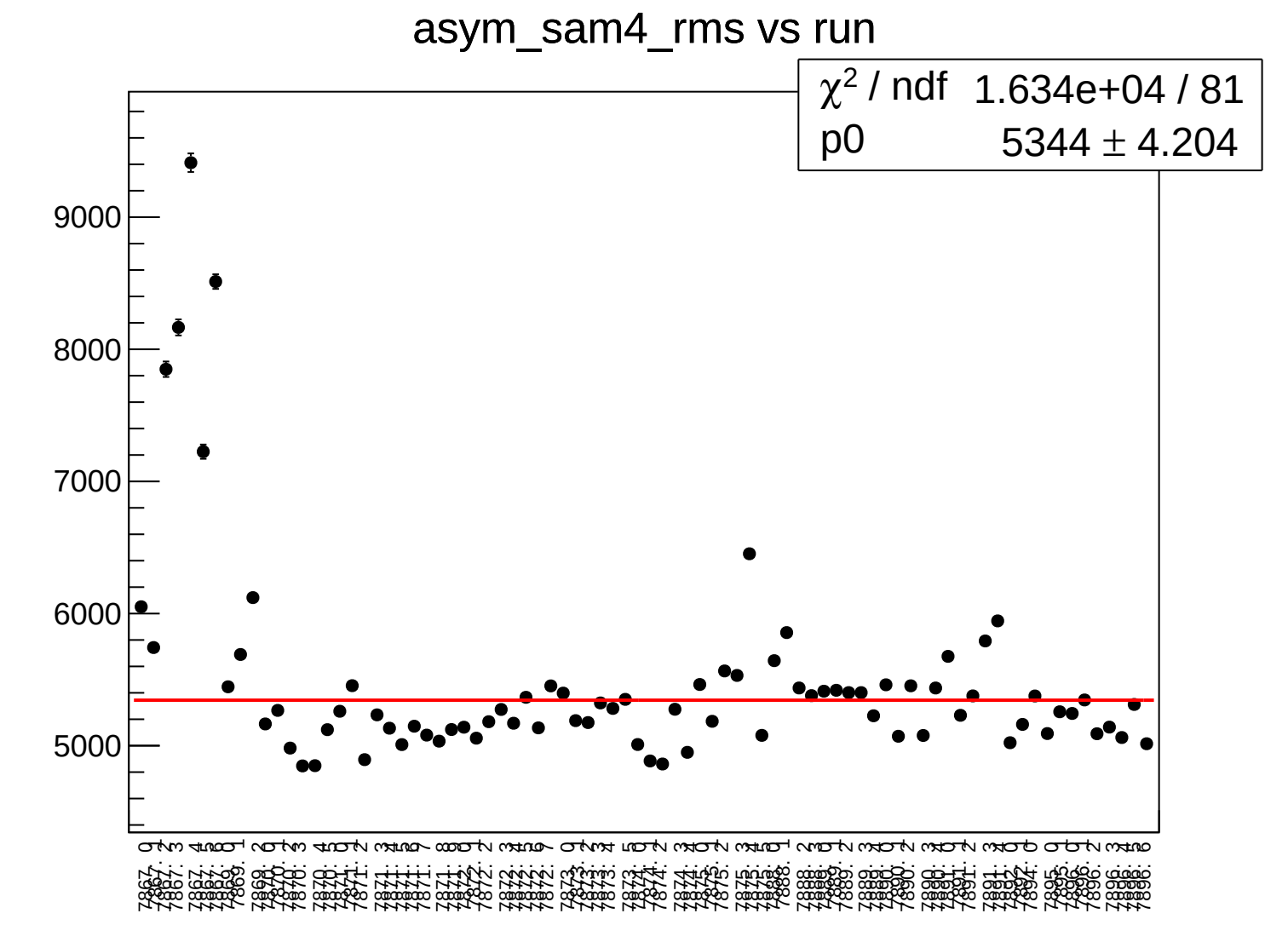

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 71.72 / 81
p0 −1498 ± 5968
pull
Entries 82
Mean −103
Std Dev 0

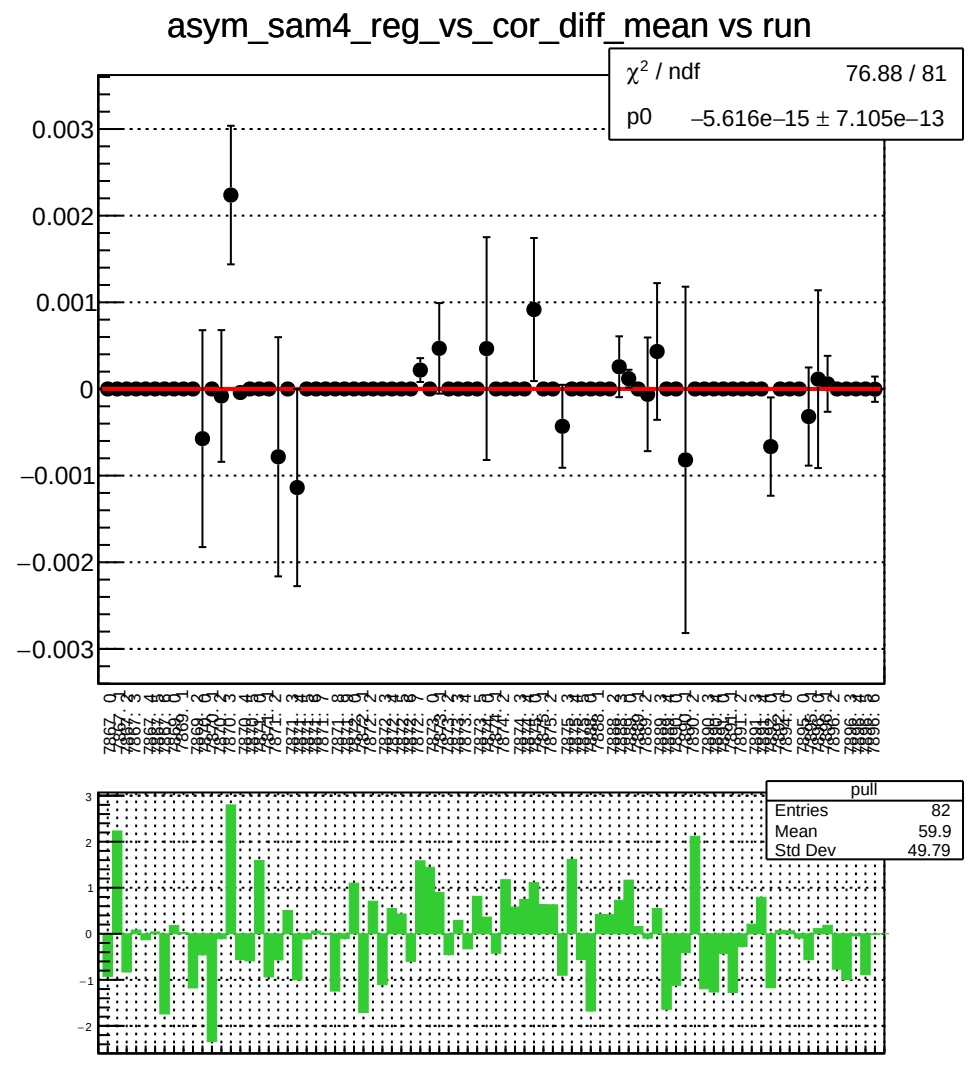

pull1D
Entries 82
Mean −0.006709
Std Dev 0.9352

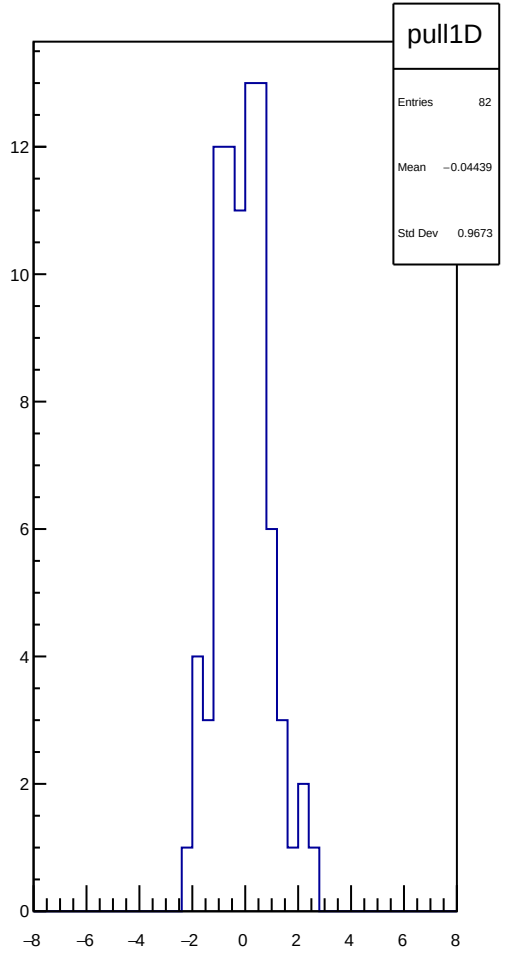

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.57e+04 / 81
p0 5365 ± 4.22
9000
8000
7000
6000
5000

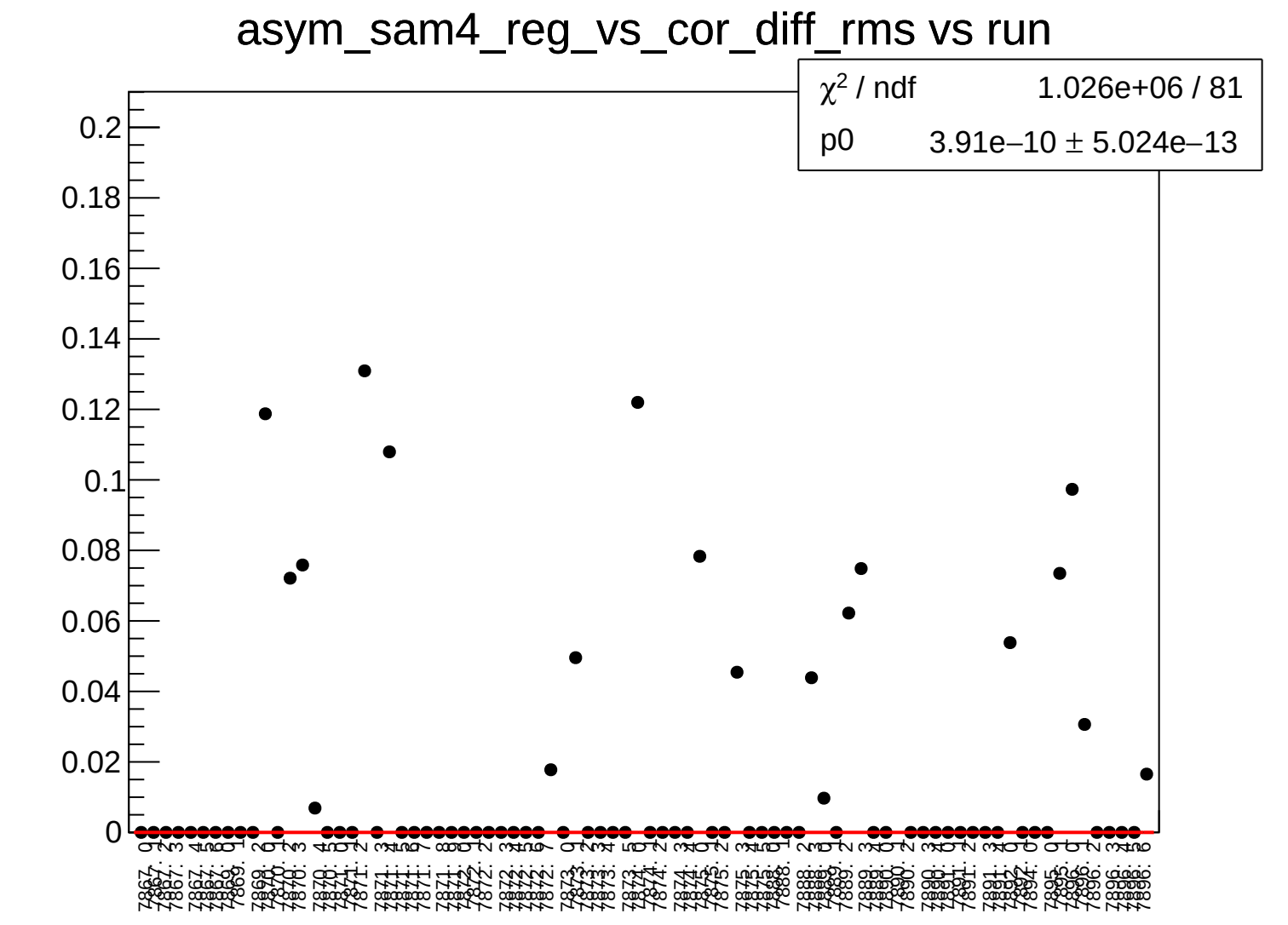

asym_sam4_mean vs run
×10^3
χ^2 / ndf 73.8 / 81
p0 2758 ± 5946
pull
Entries 82
Mean −100.2
Std Dev 0

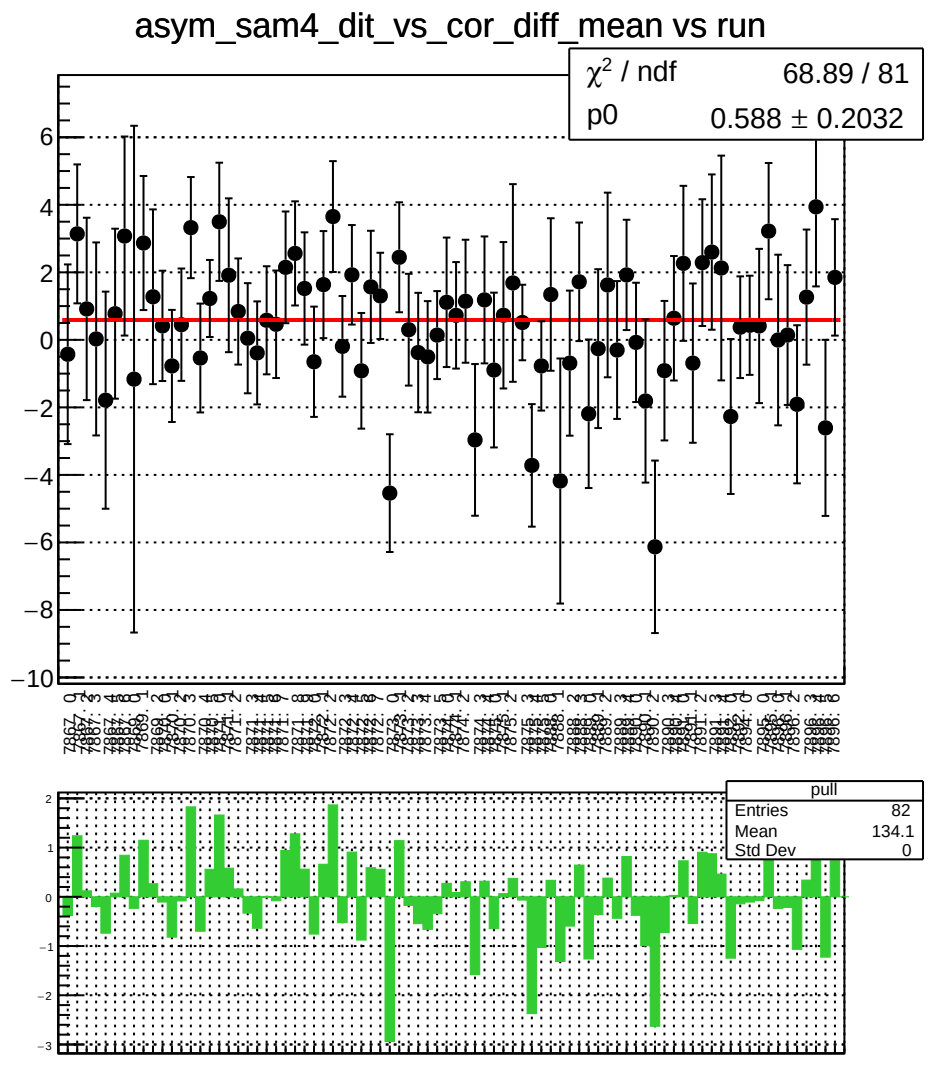

pull1D
Entries 82
Mean 0.007205
Std Dev 0.9486

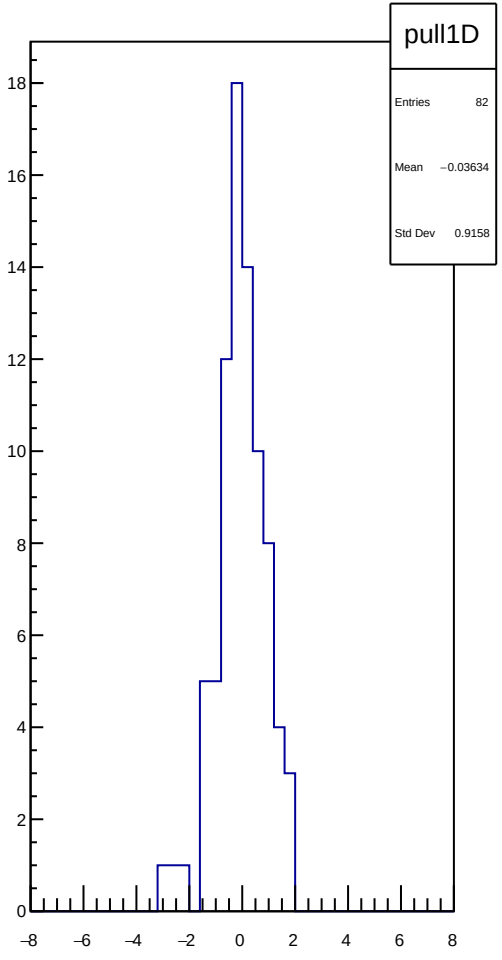

asym_sam4_rms vs run
χ^2 / ndf 1.634e+04 / 81
p0 5344 ± 4.204
9000
8000
7000
6000
5000

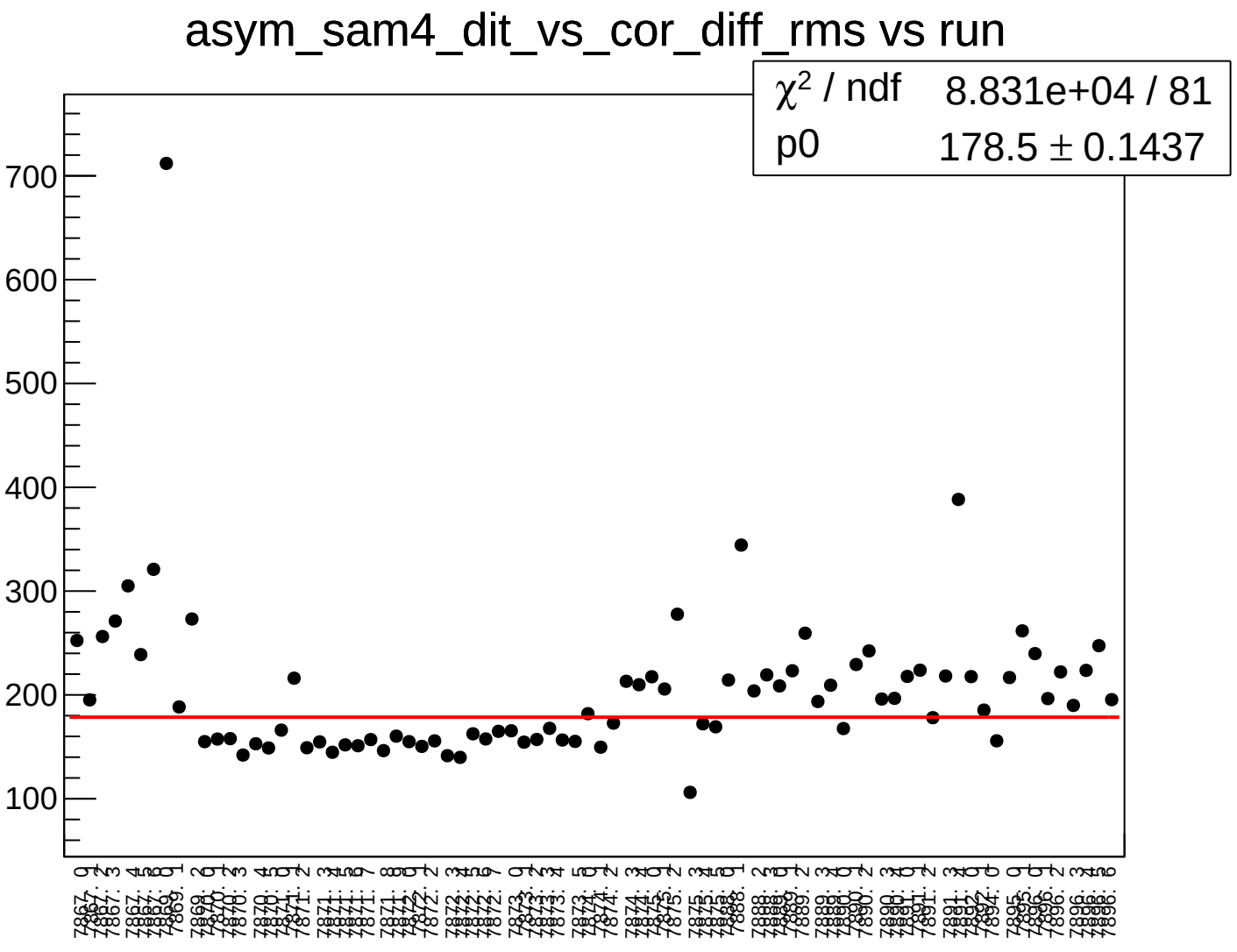

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 76.88 / 81
p0 −5.616e−15 ± 7.105e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 82
Mean 59.9
Std Dev 49.79
3
2
1
0
−1
−2

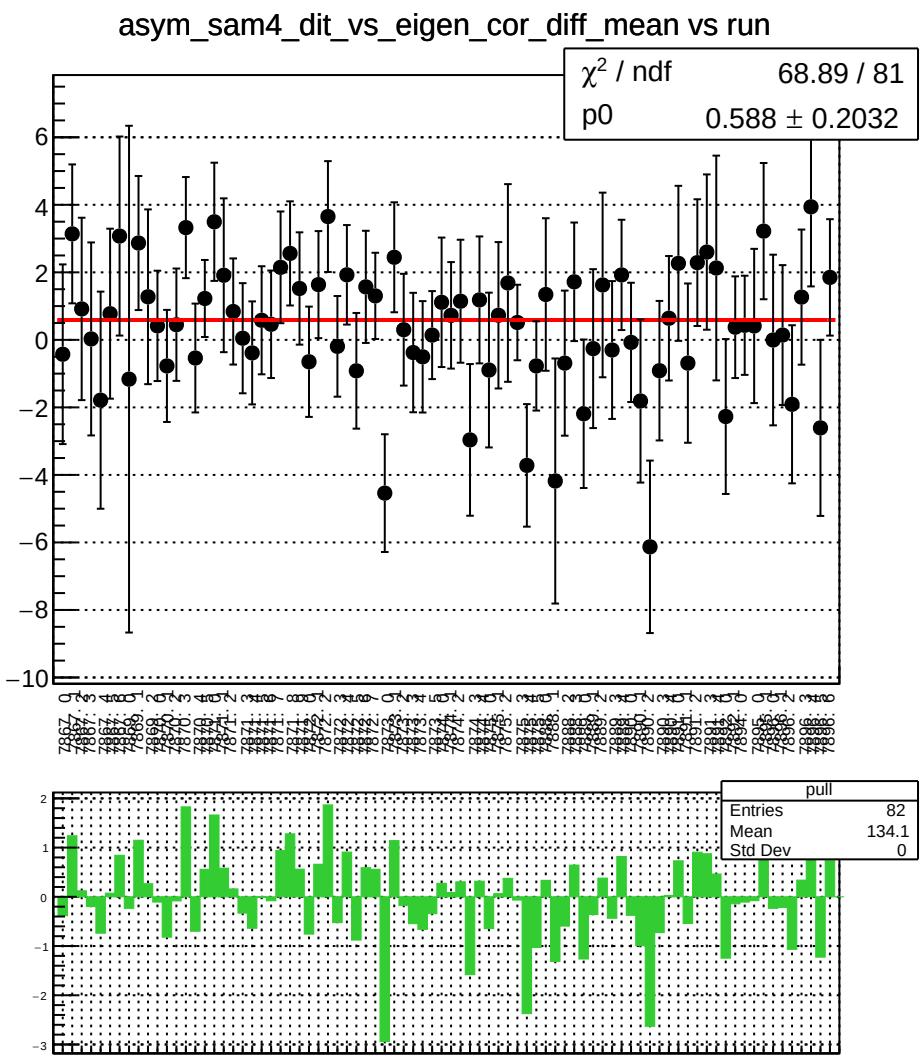

pull1D
Entries 82
Mean −0.04439
Std Dev 0.9673
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

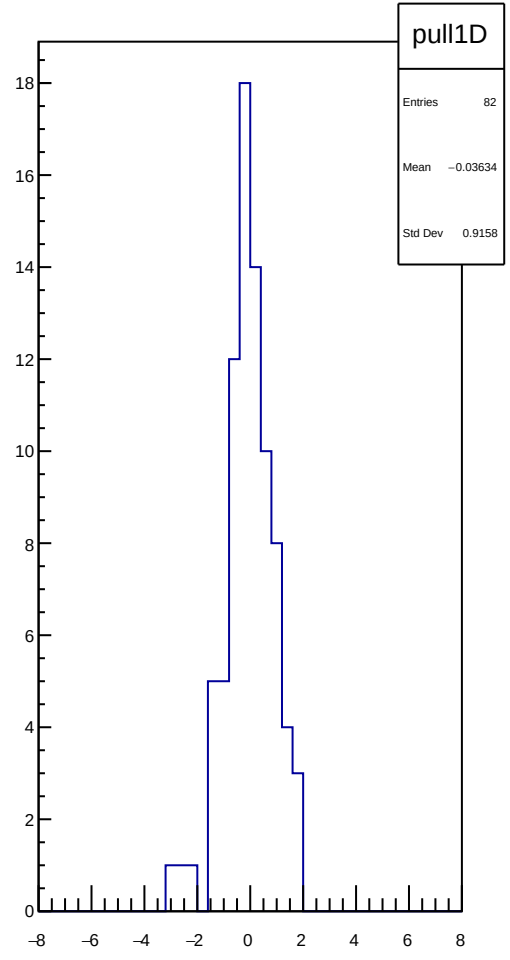

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 81
p0 3.91e−10 ± 5.024e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

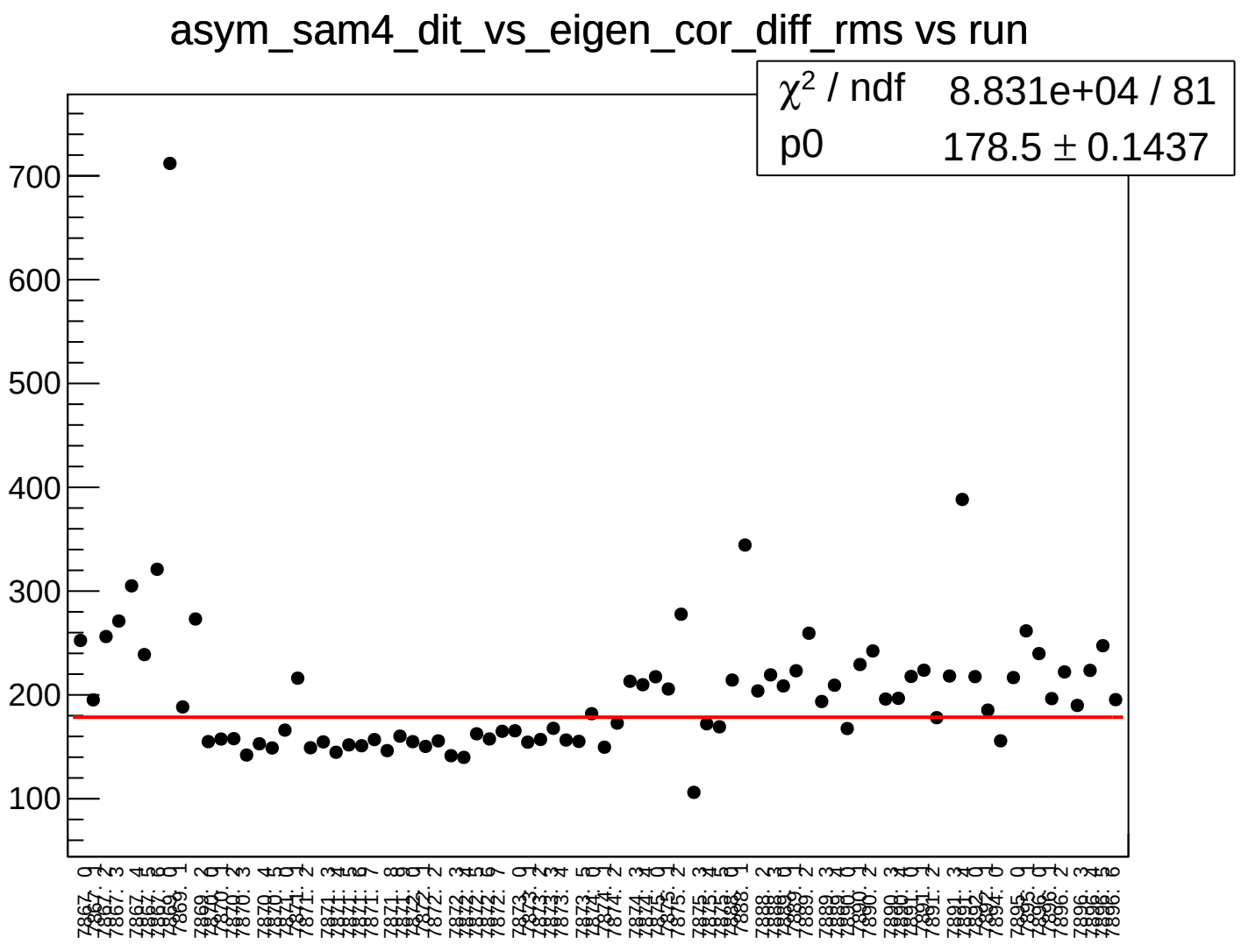

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 68.89 / 81
p0 0.588 ± 0.2032
pull
Entries 82
Mean 134.1
Std Dev 0

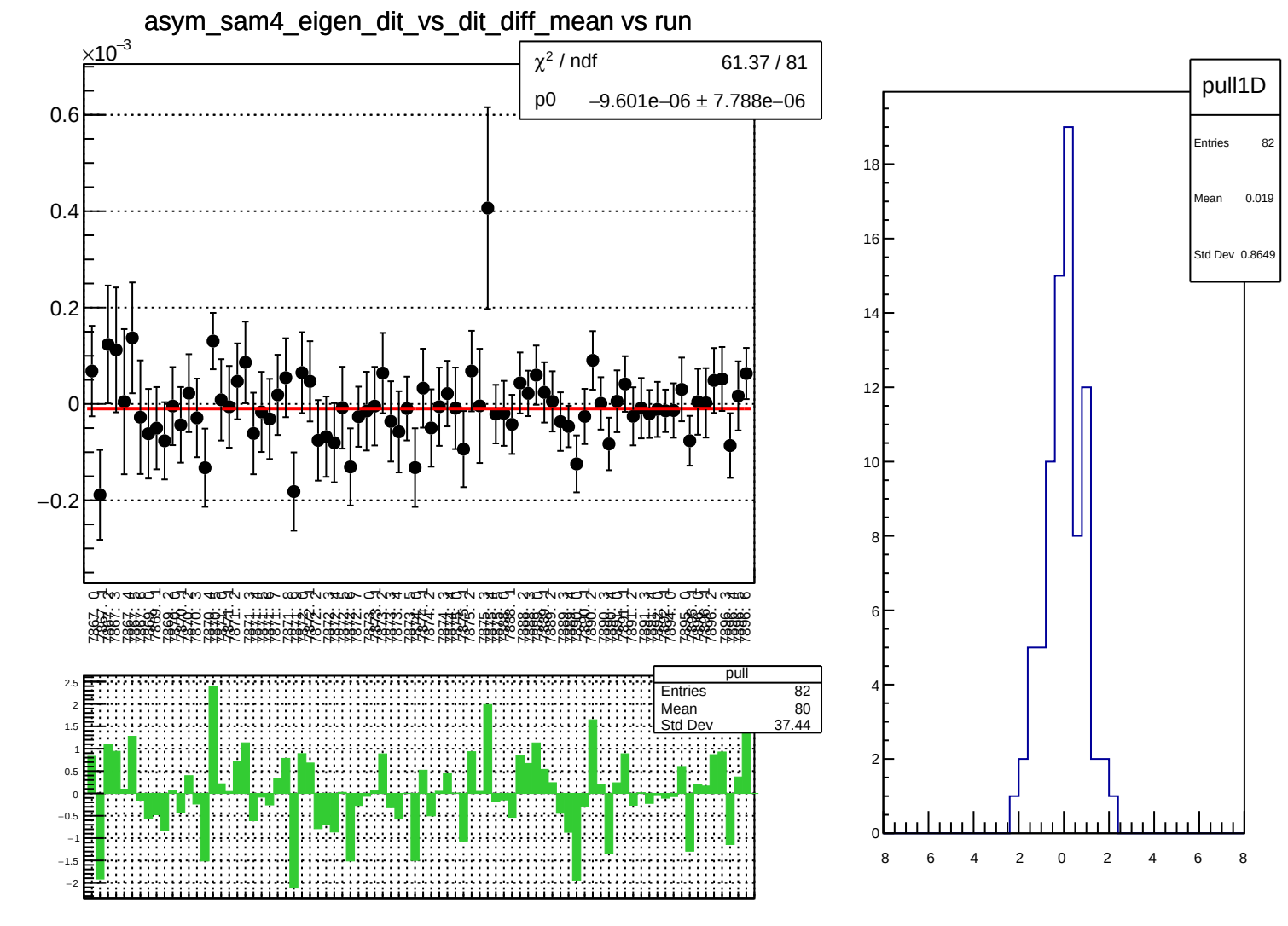

pull1D
Entries 82
Mean −0.03634
Std Dev 0.9158

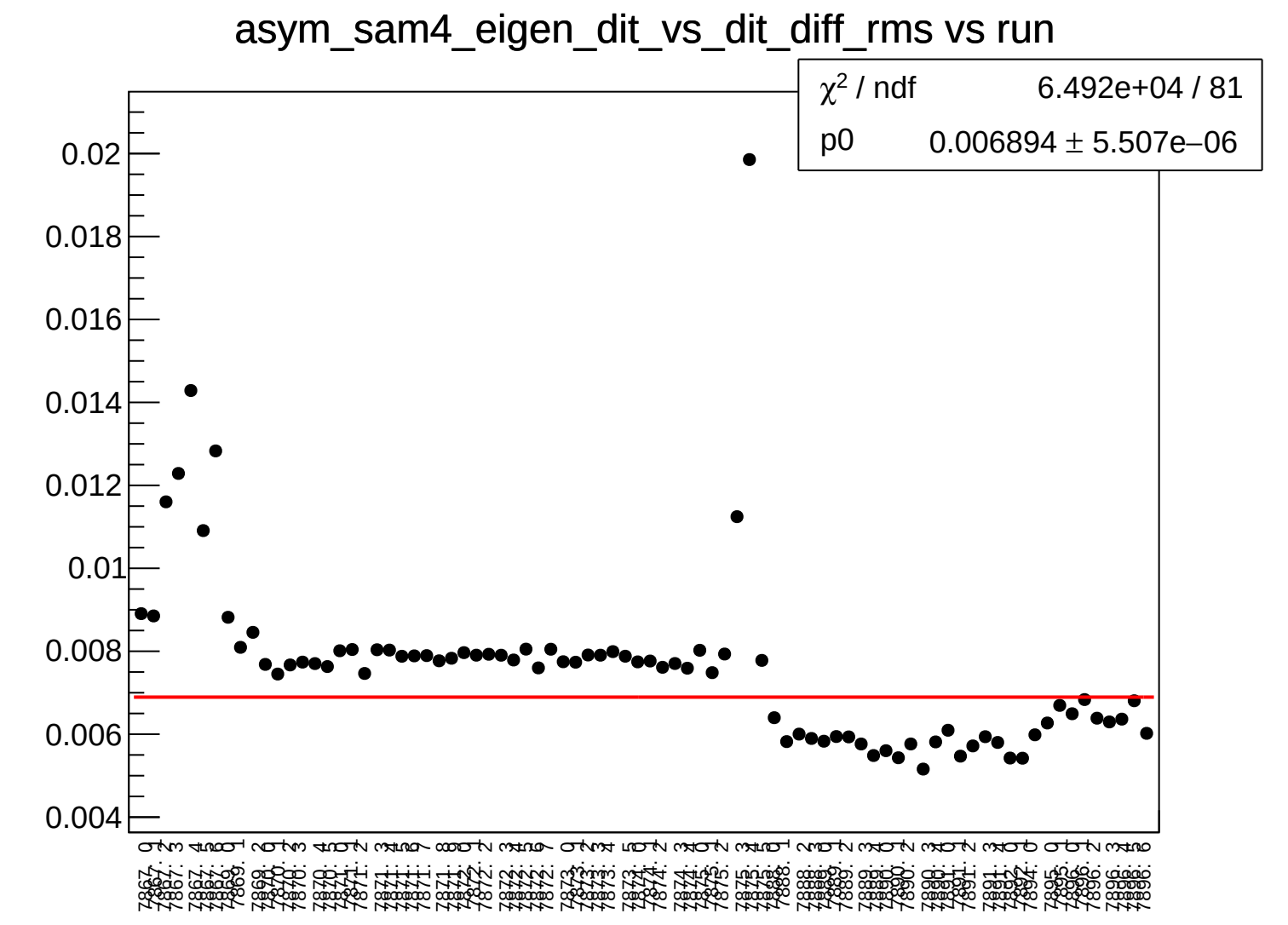

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 8.831e+04 / 81
p0 178.5 ± 0.1437
700
600
500
400
300
200
100

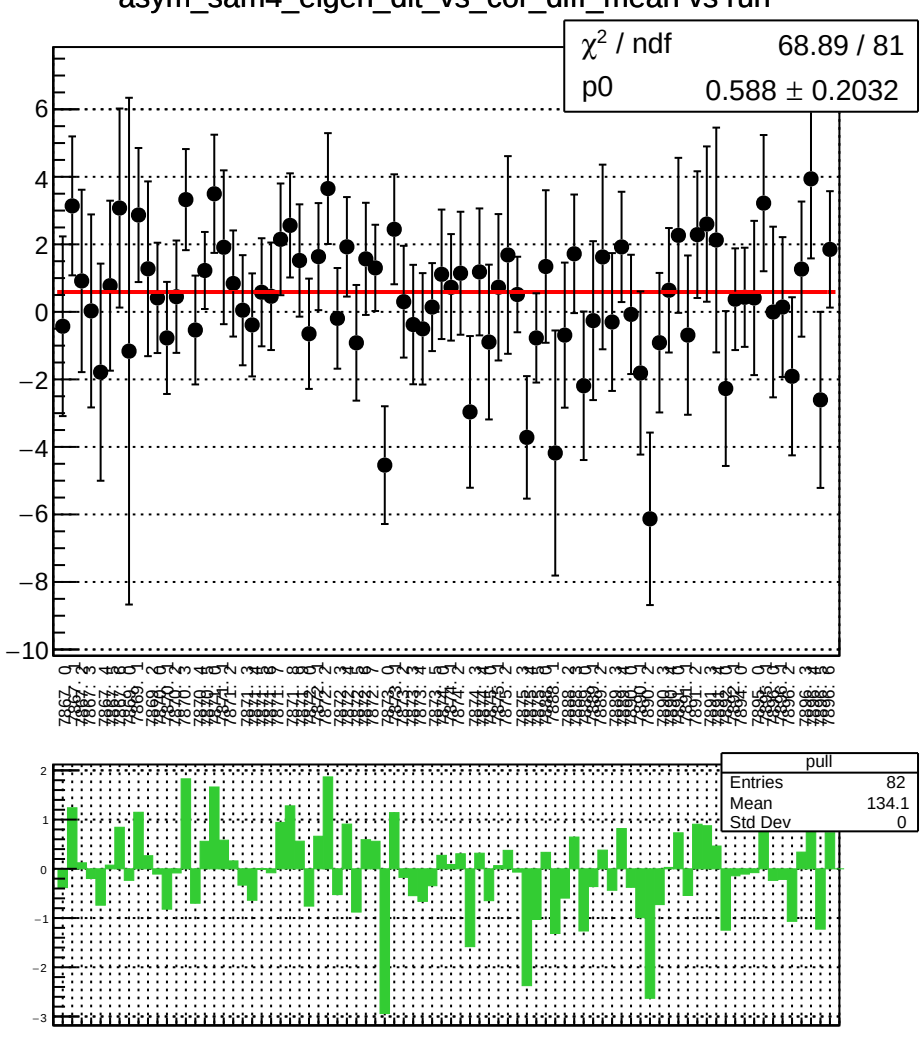

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.89 / 81
p0 0.588 ± 0.2032
pull
Entries 82
Mean 134.1
Std Dev 0

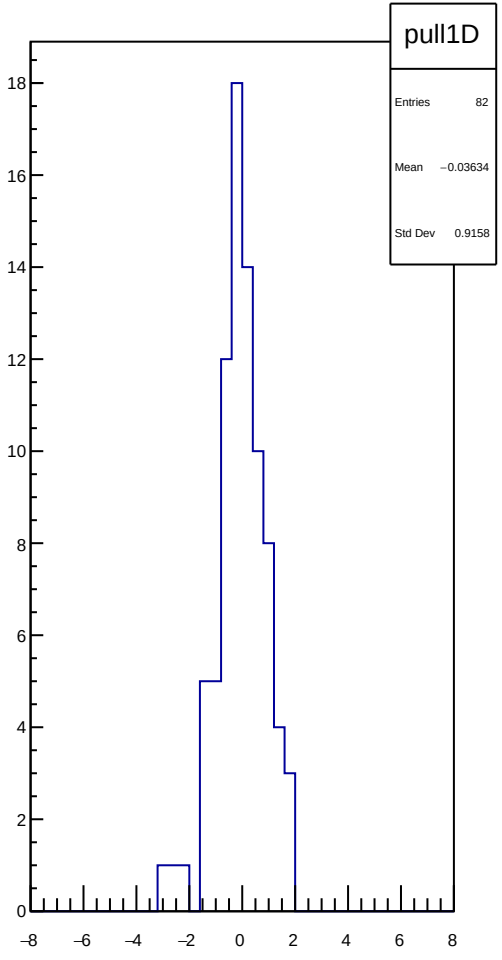

pull1D
Entries 82
Mean −0.03634
Std Dev 0.9158

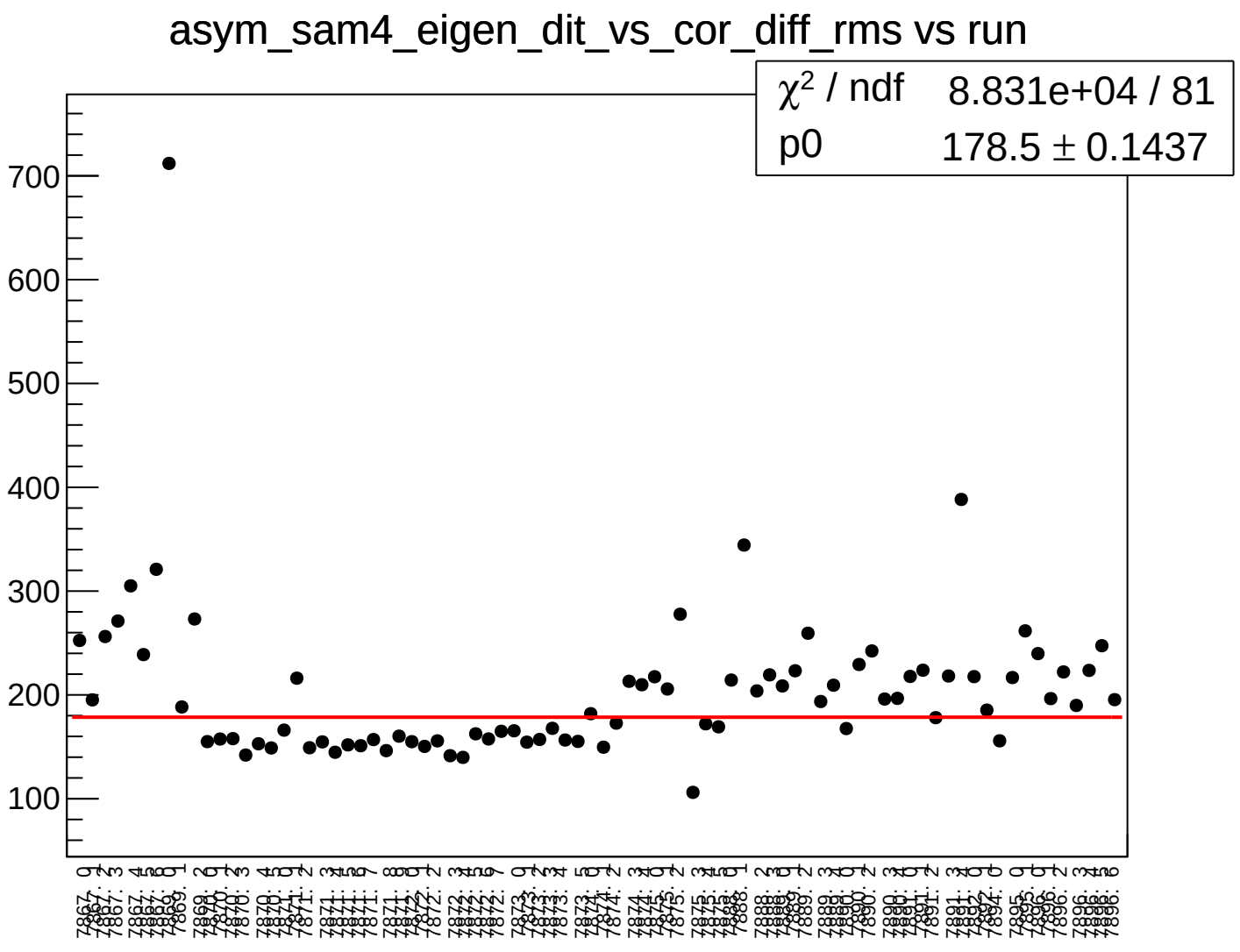

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.831e+04 / 81
p0 178.5 ± 0.1437
700
600
500
400
300
200
100

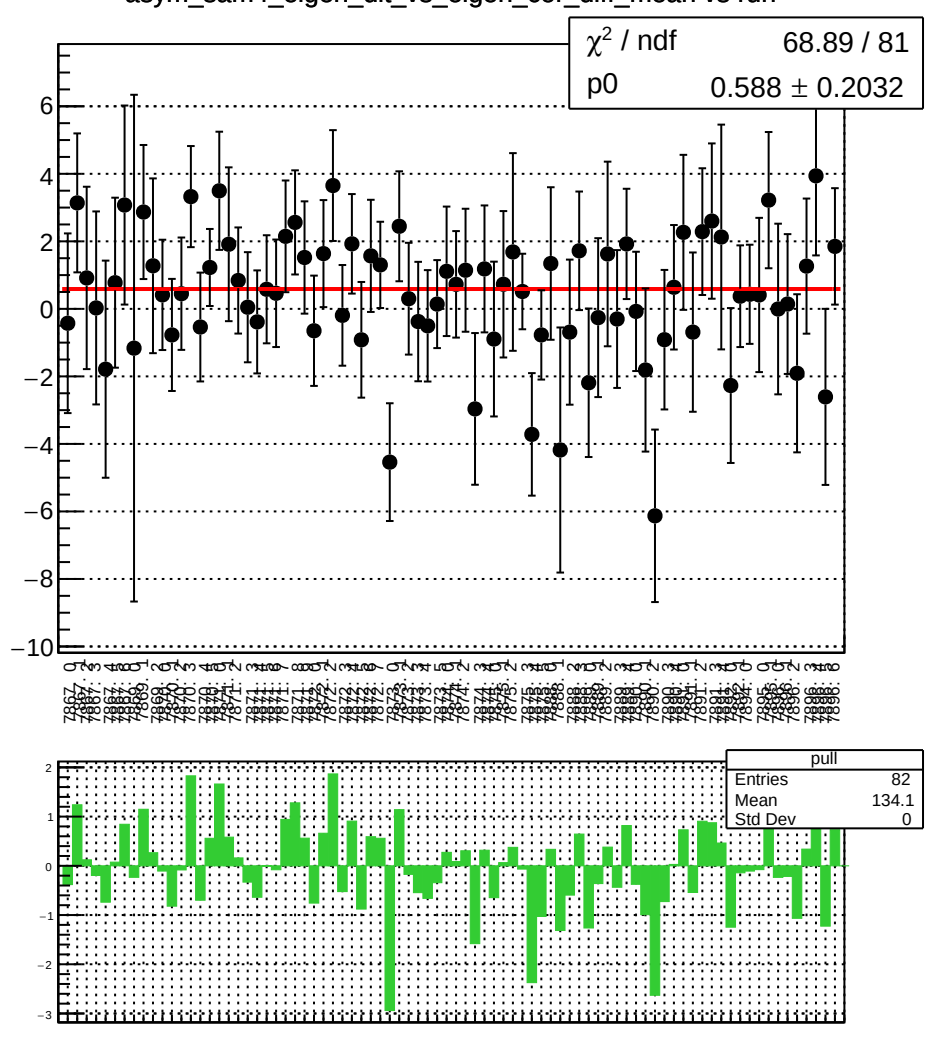

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.37 / 81
p0 −9.601e−06 ± 7.788e−06
0.6
0.4
0.2
0
−0.2
pull
Entries 82
Mean 80
Std Dev 37.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.019
Std Dev 0.8649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

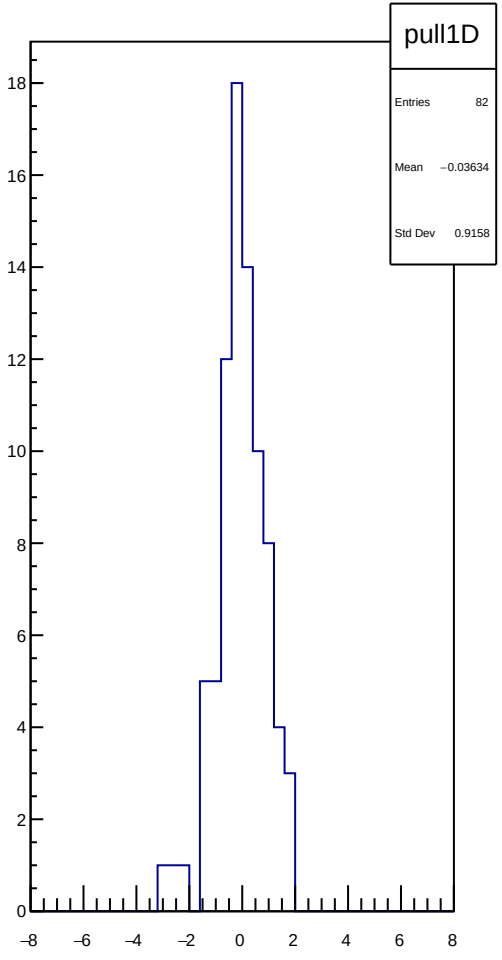

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.492e+04 / 81
p0 0.006894 ± 5.507e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

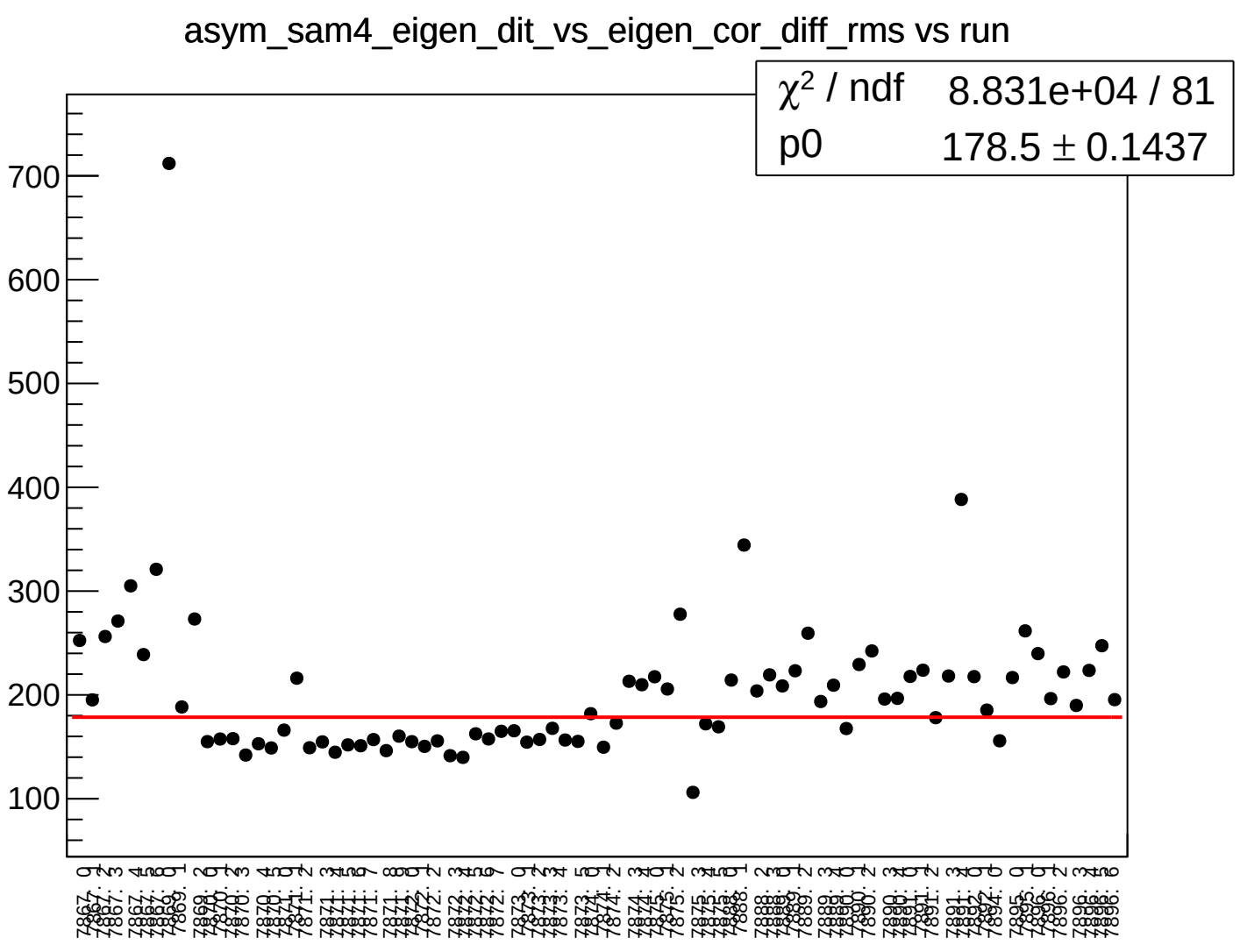

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.89 / 81
p0 0.588 ± 0.2032
pull
Entries 82
Mean 134.1
Std Dev 0

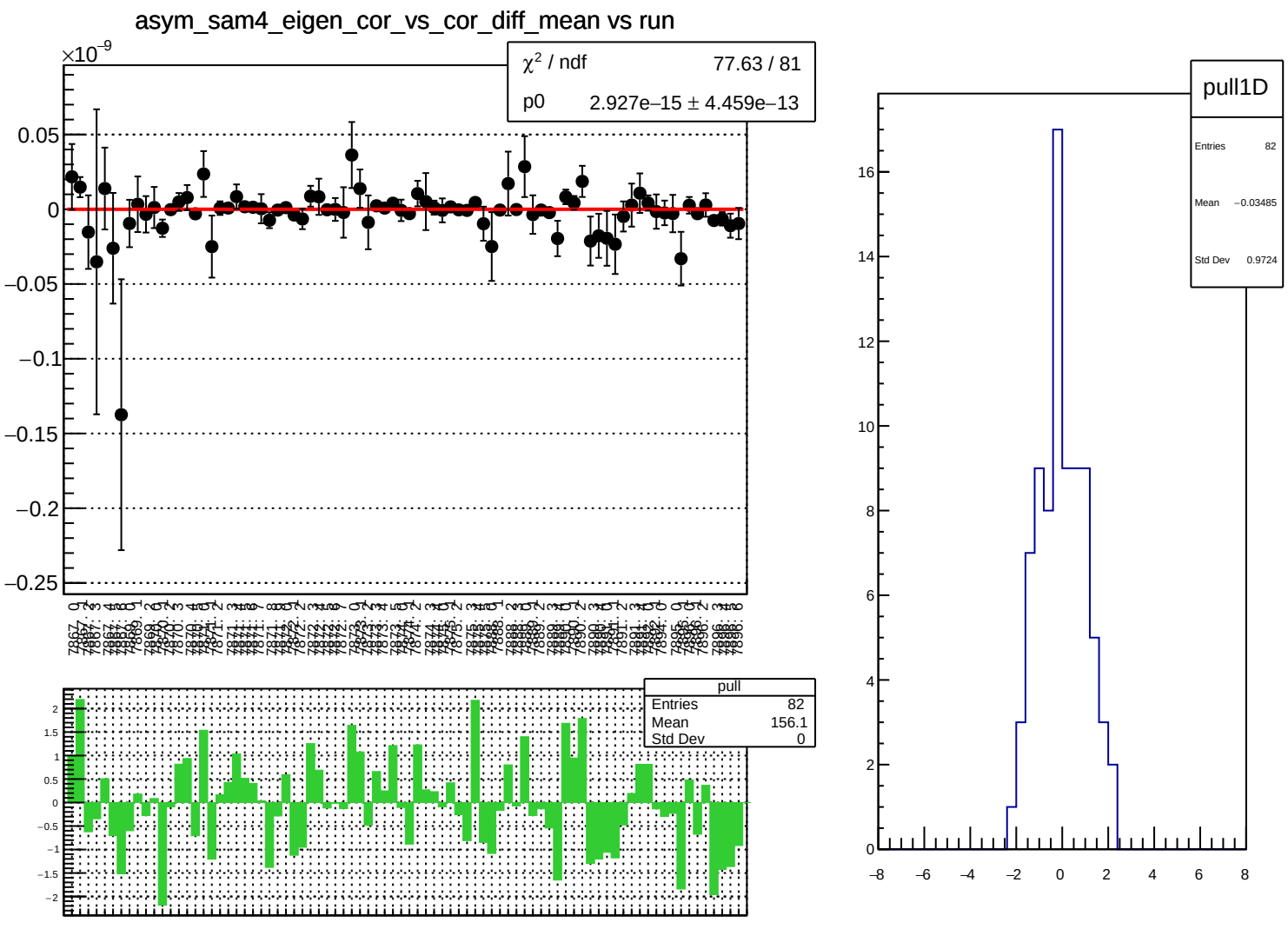

pull1D
Entries 82
Mean −0.03634
Std Dev 0.9158

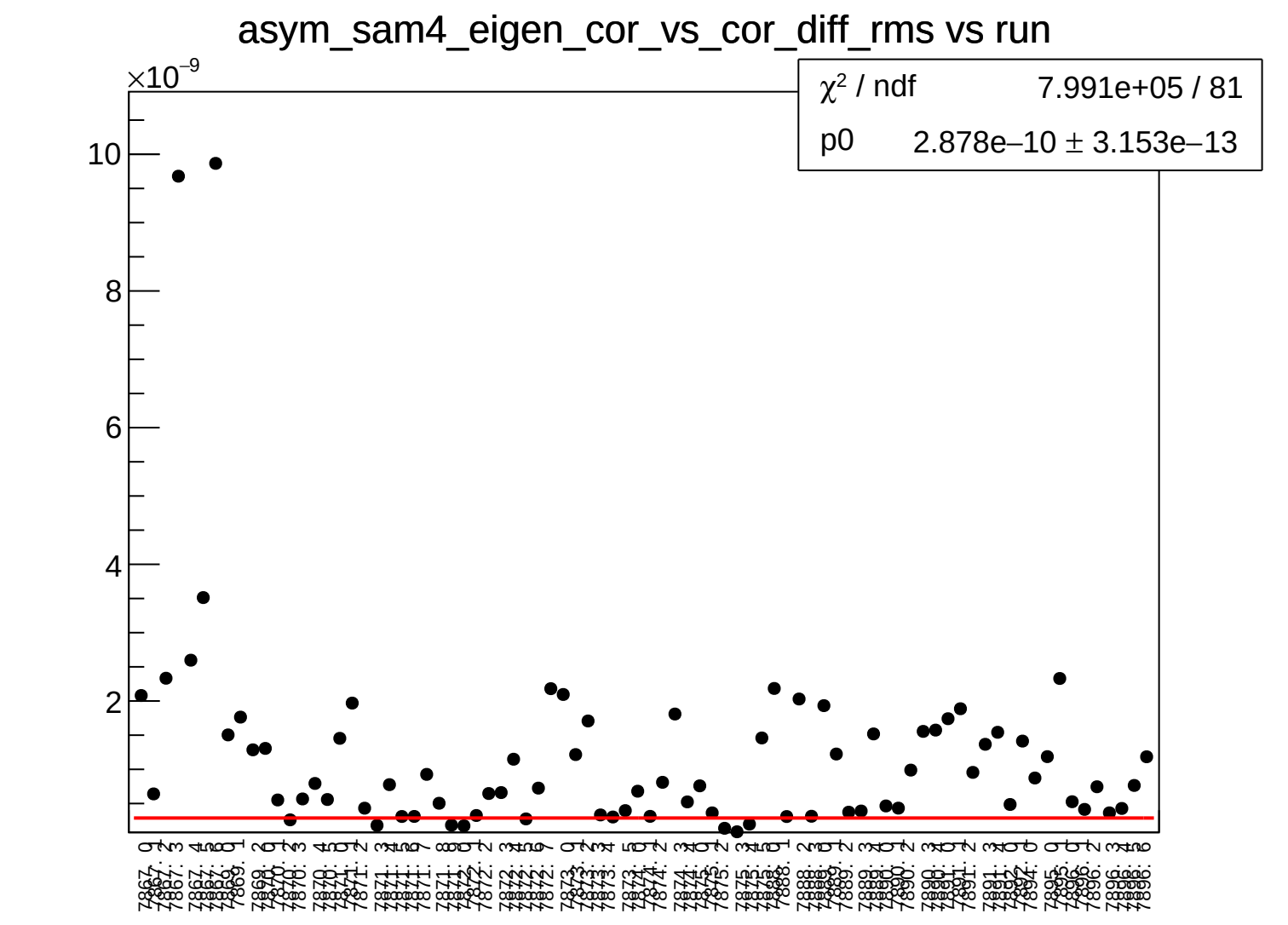

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.831e+04 / 81
p0 178.5 ± 0.1437
700
600
500
400
300
200
100

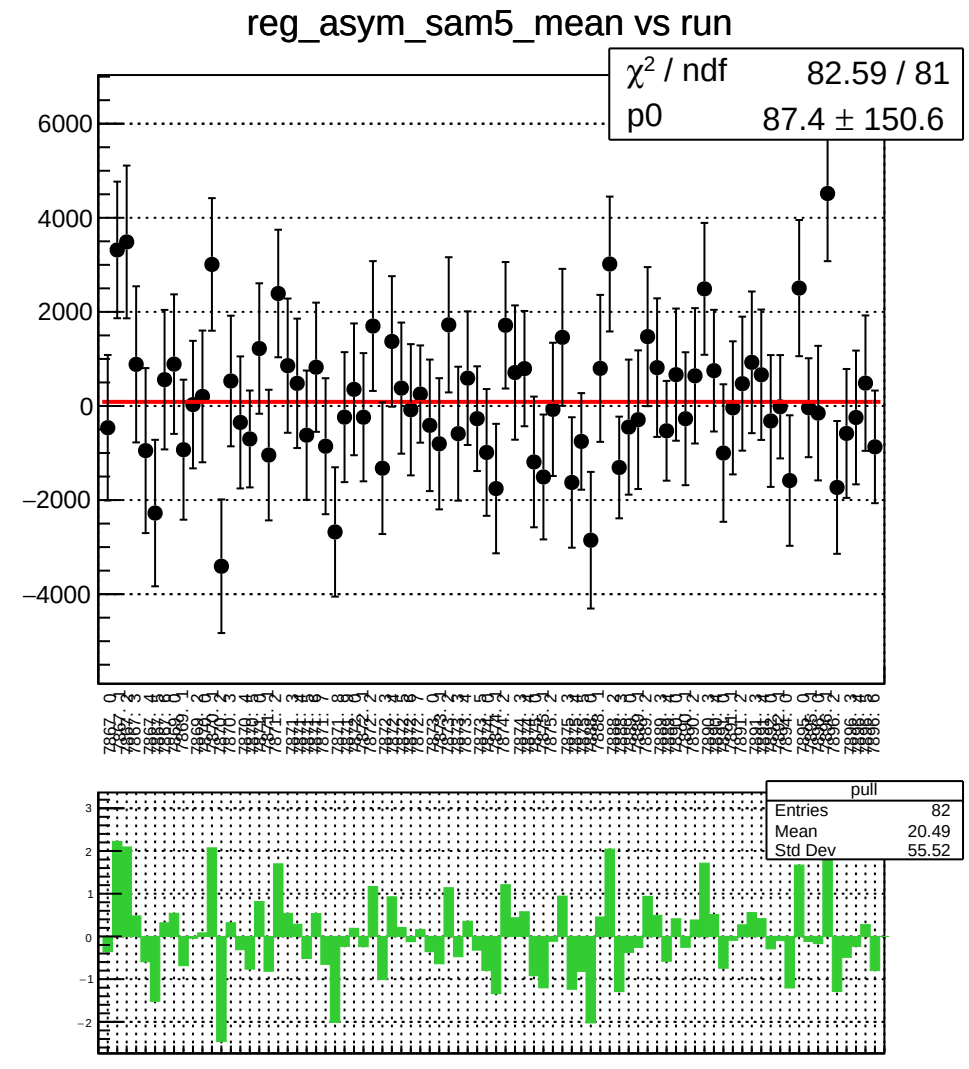

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.89 / 81
p0 0.588 ± 0.2032
pull
Entries 82
Mean 134.1
Std Dev 0

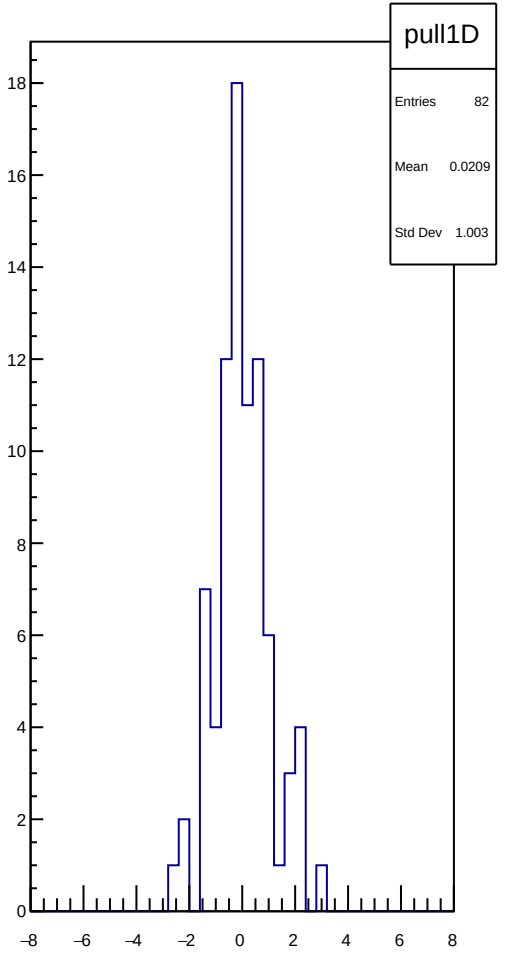

pull1D
Entries 82
Mean −0.03634
Std Dev 0.9158

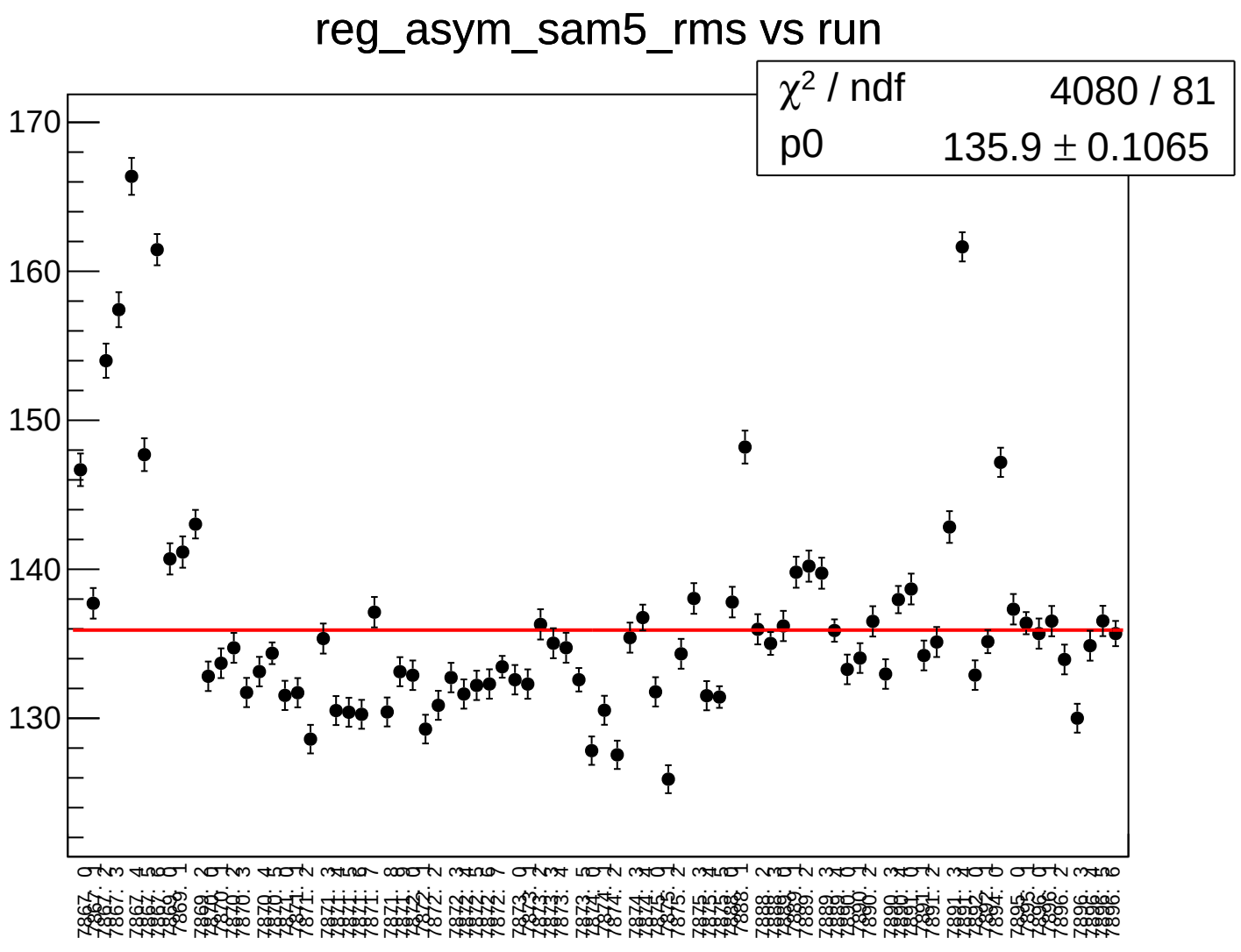

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.831e+04 / 81
p0 178.5 ± 0.1437
700
600
500
400
300
200
100

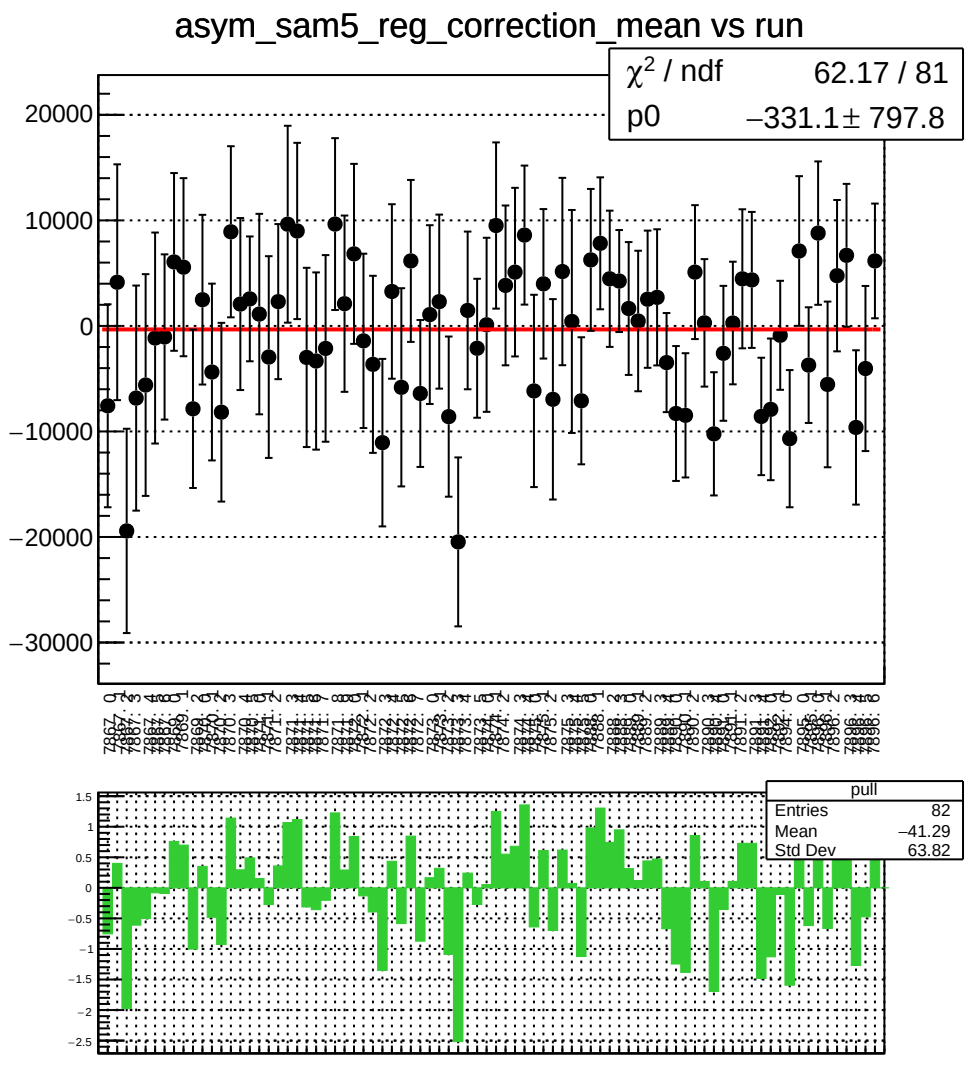

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 77.63 / 81
p0 2.927e−15 ± 4.459e−13
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 82
Mean 156.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.03485
Std Dev 0.9724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

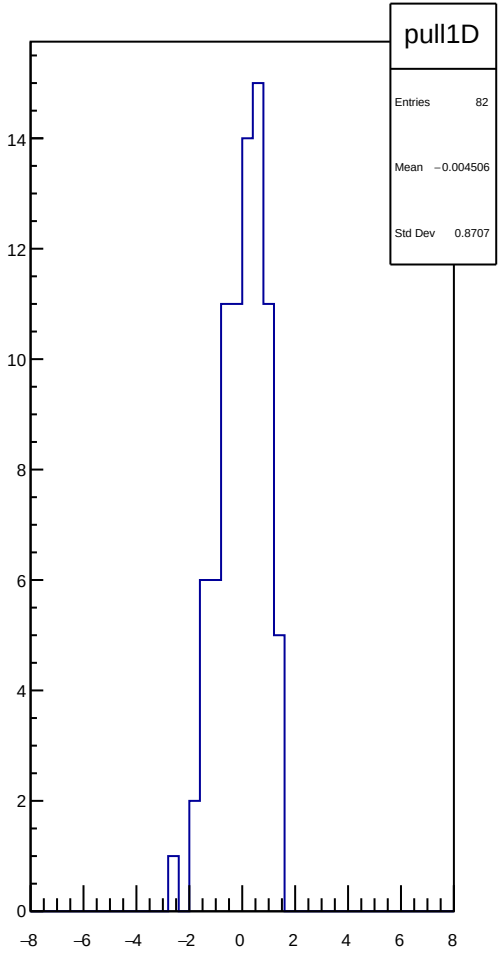

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.991e+05 / 81
p0 2.878e−10 ± 3.153e−13
10
8
6
4
2

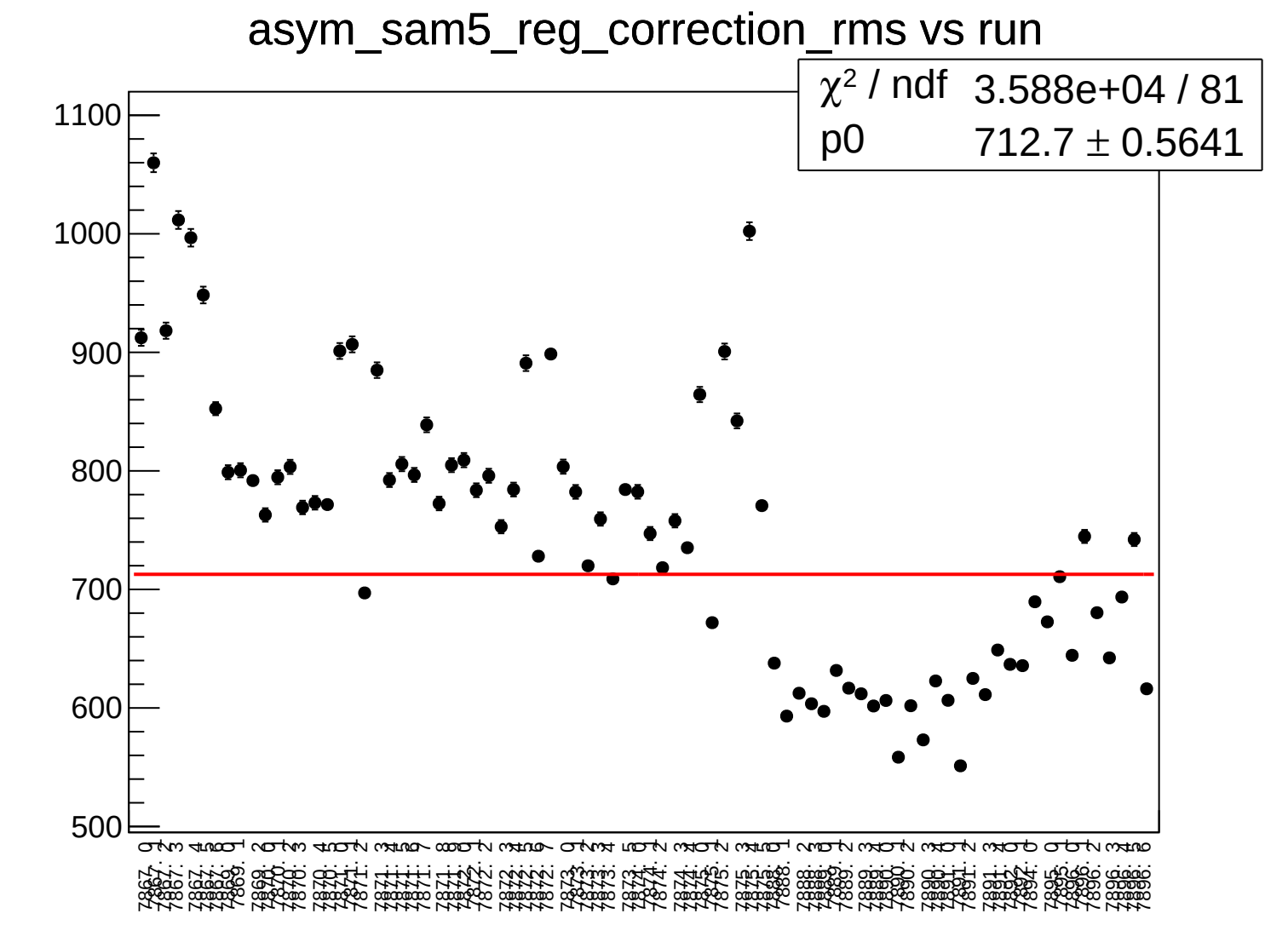

reg_asym_sam5_mean vs run
χ² / ndf 82.59 / 81
p0 87.4 ± 150.6
pull
Entries 82
Mean 20.49
Std Dev 55.52

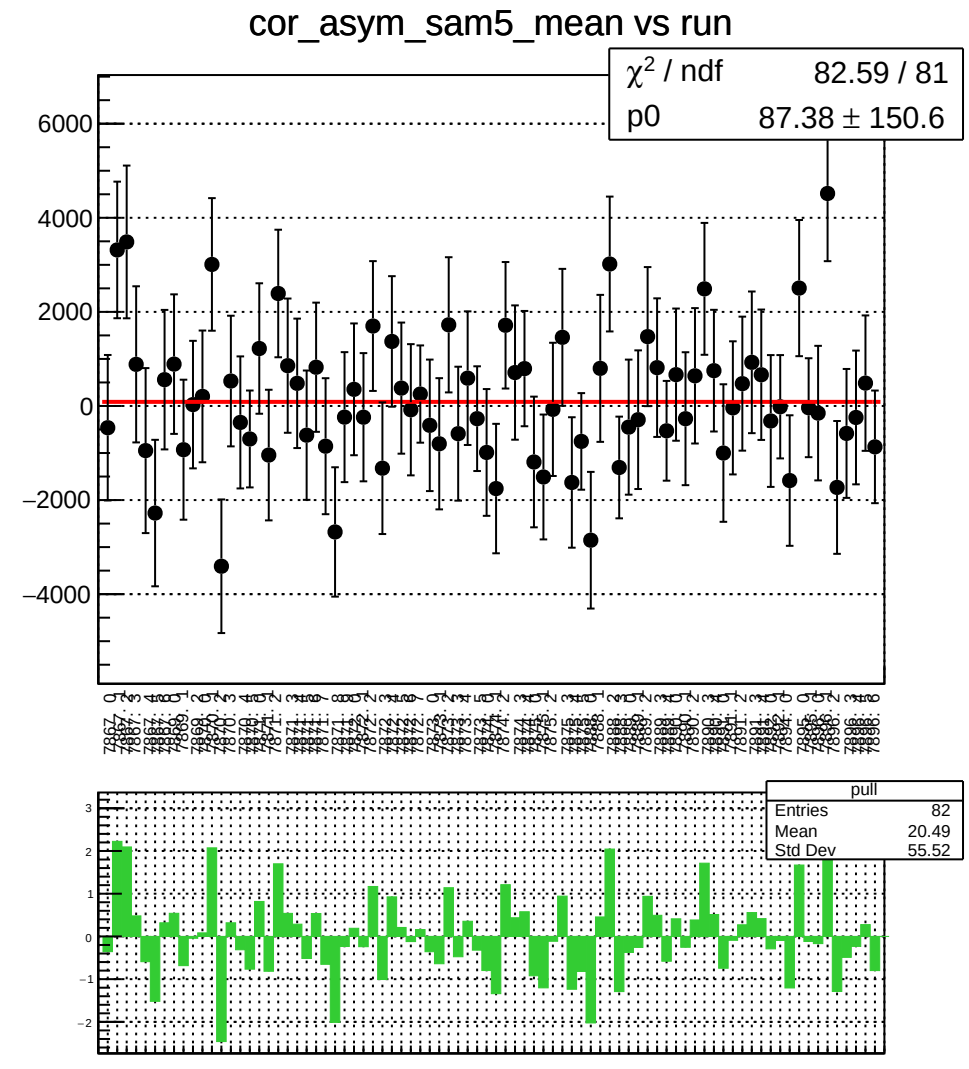

pull1D
Entries 82
Mean 0.0209
Std Dev 1.003

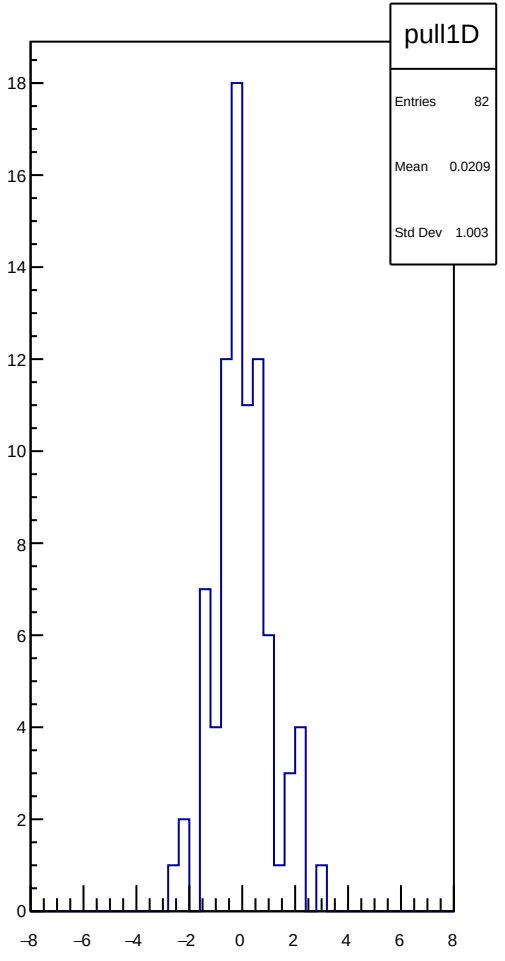

reg_asym_sam5_rms vs run
χ² / ndf 4080 / 81
p0 135.9 ± 0.1065
170
160
150
140
130

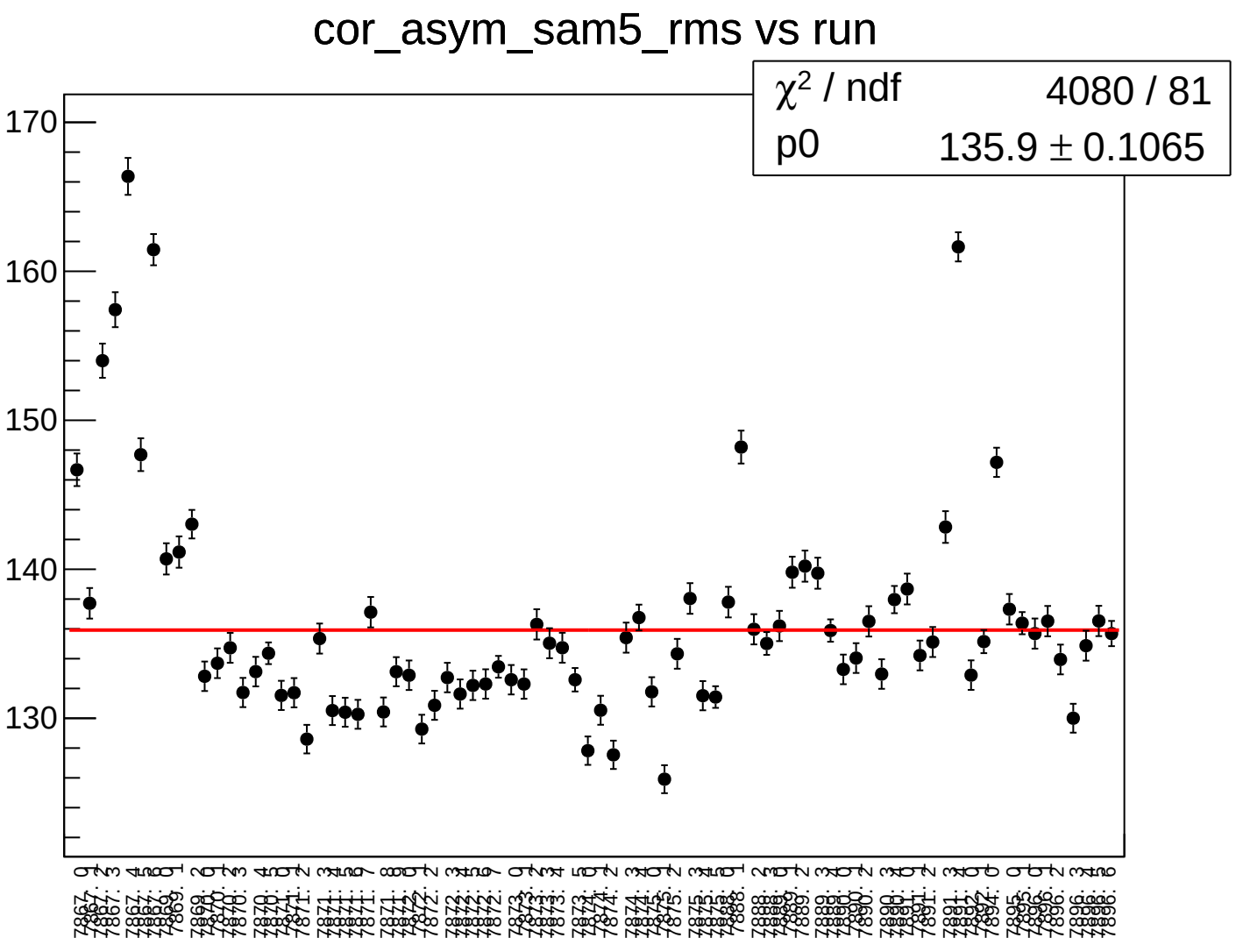

asym_sam5_reg_correction_mean vs run
χ² / ndf 62.17 / 81
p0 −331.1± 797.8
pull
Entries 82
Mean −41.29
Std Dev 63.82

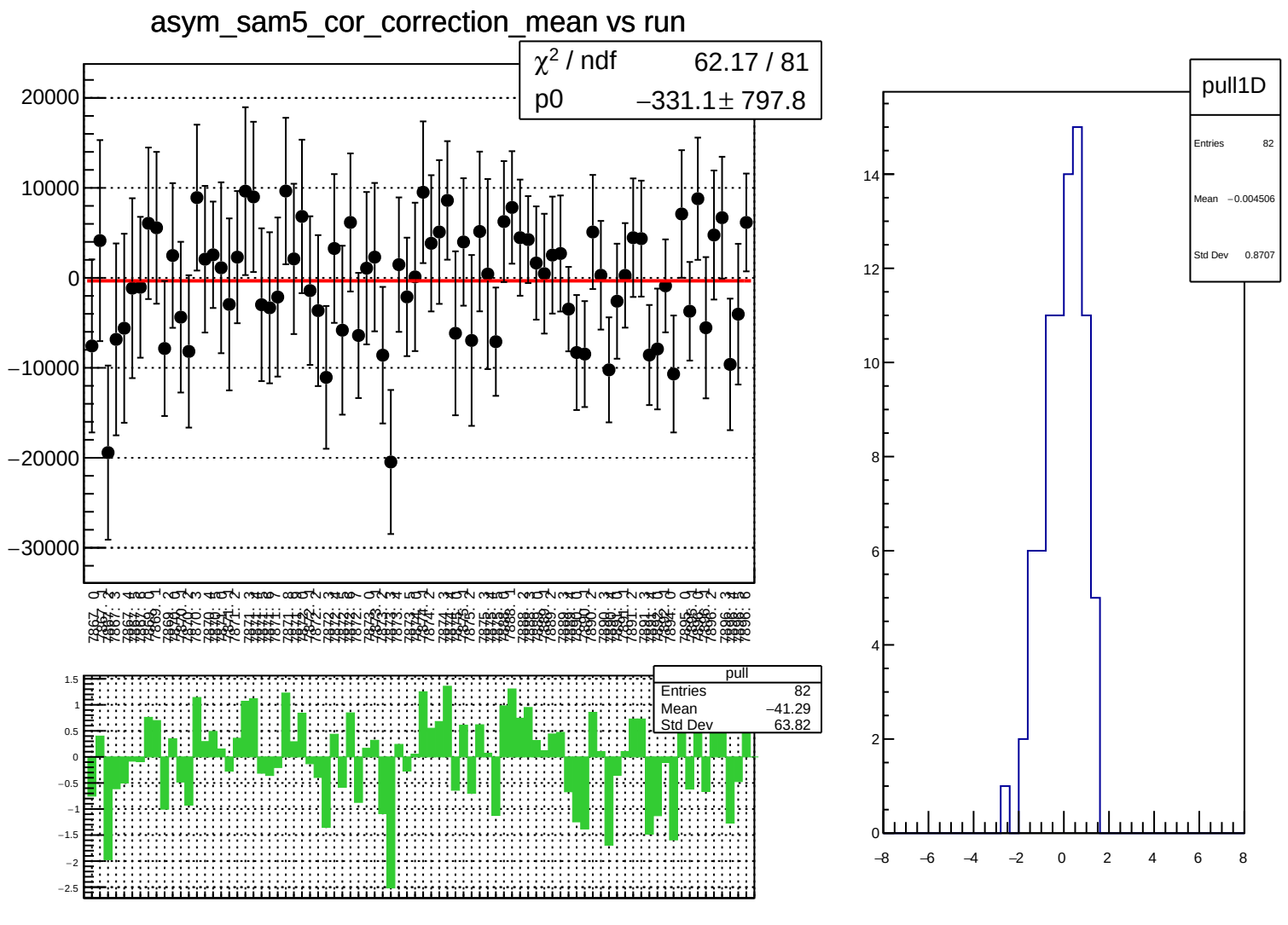

pull1D
Entries 82
Mean −0.004506
Std Dev 0.8707

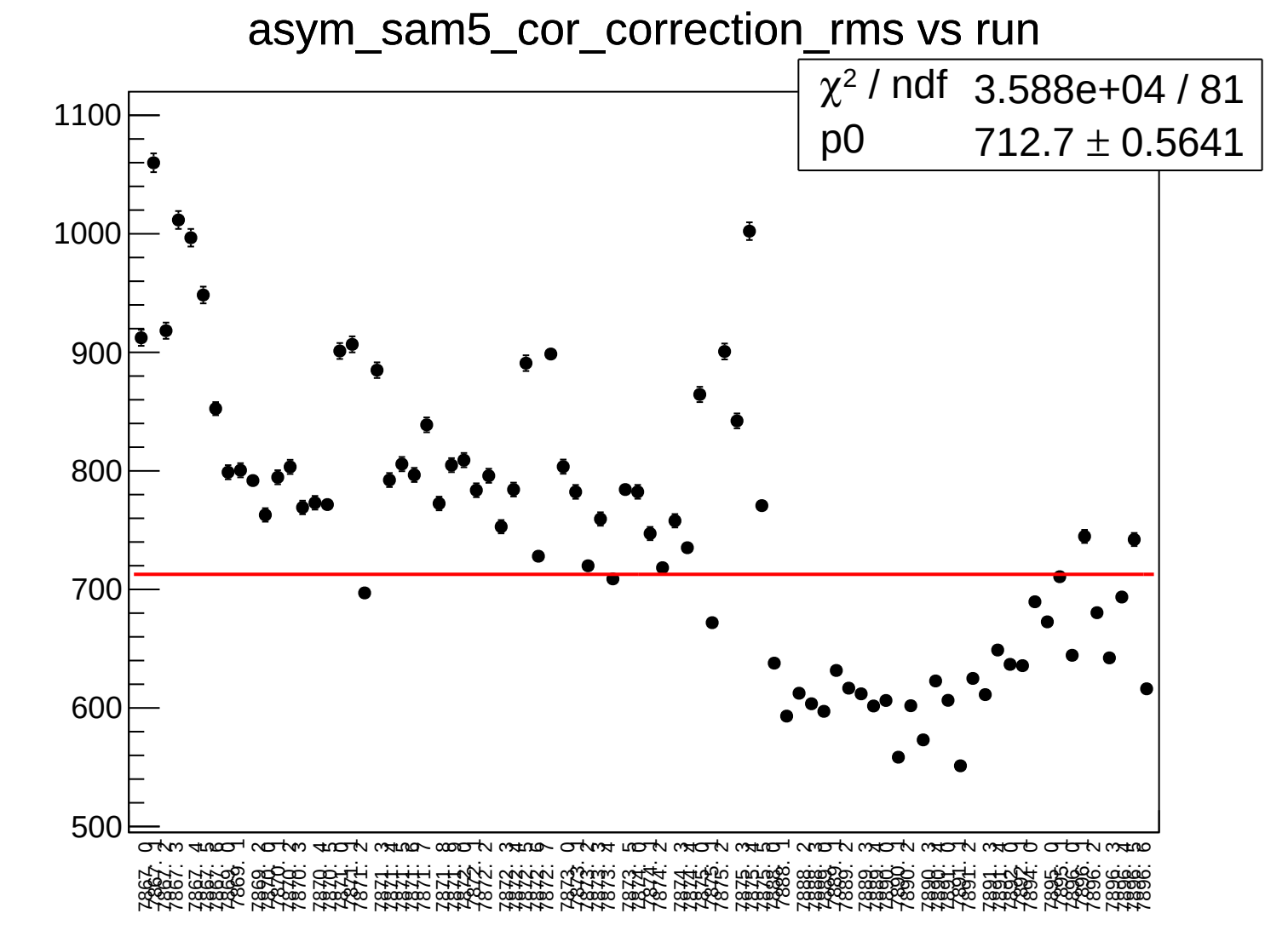

asym_sam5_reg_correction_rms vs run
χ² / ndf 3.588e+04 / 81
p0 712.7 ± 0.5641
1100
1000
900
800
700
600
500

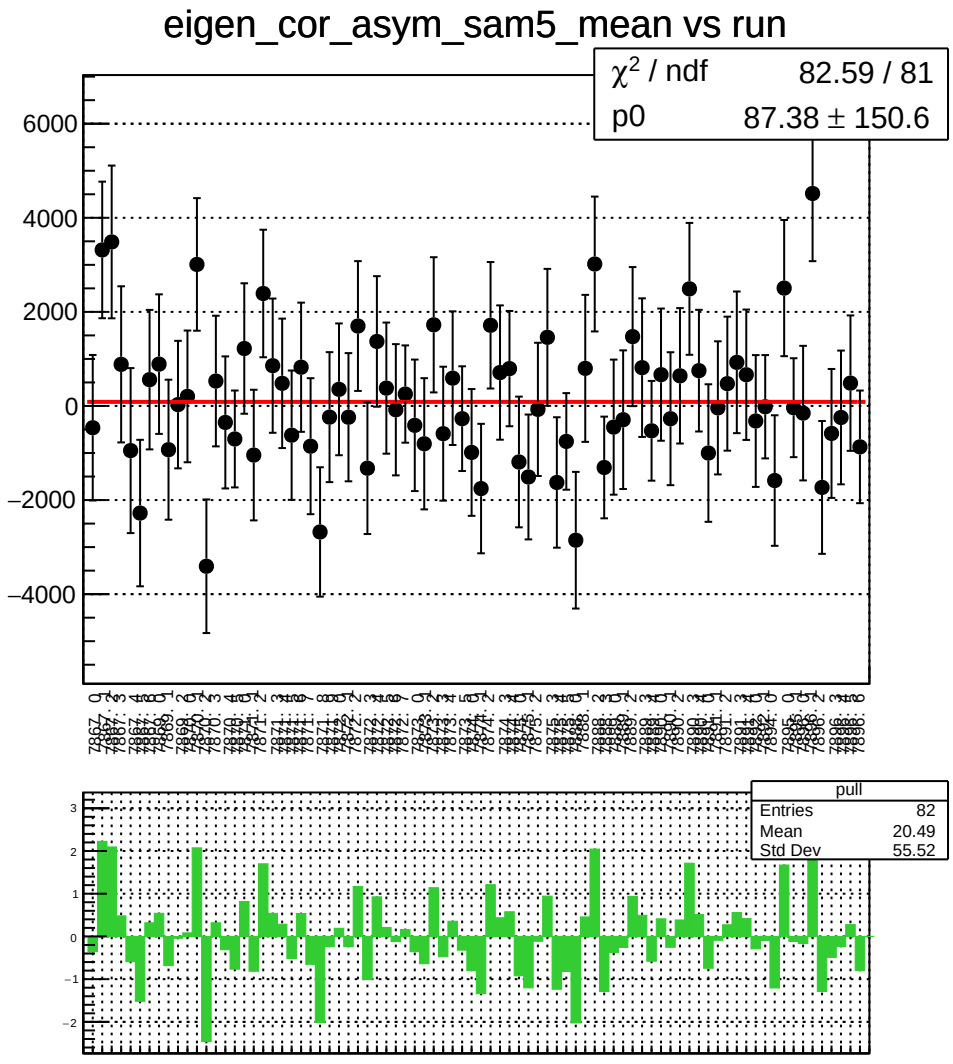

cor_asym_sam5_mean vs run
χ² / ndf 82.59 / 81
p0 87.38 ± 150.6
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 20.49
Std Dev 55.52
3
2
1
0
−1
−2

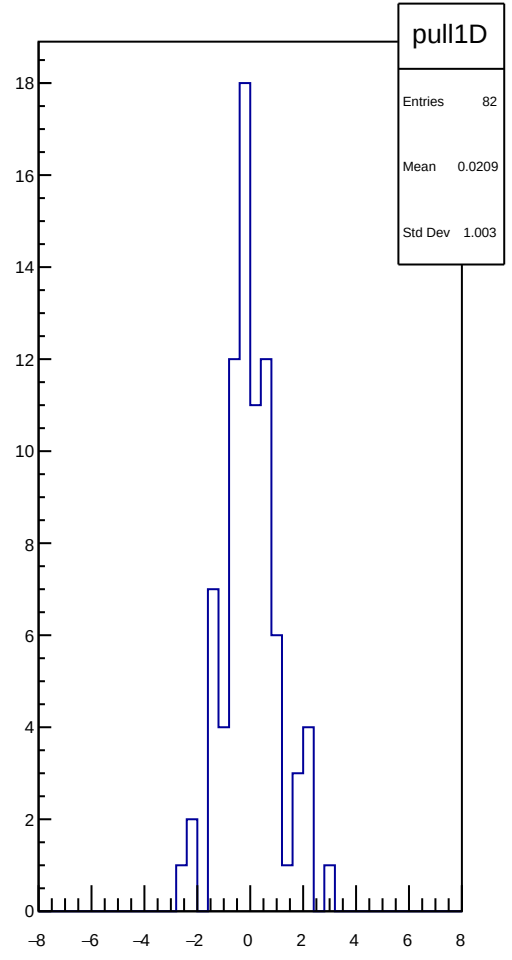

pull1D
Entries 82
Mean 0.0209
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

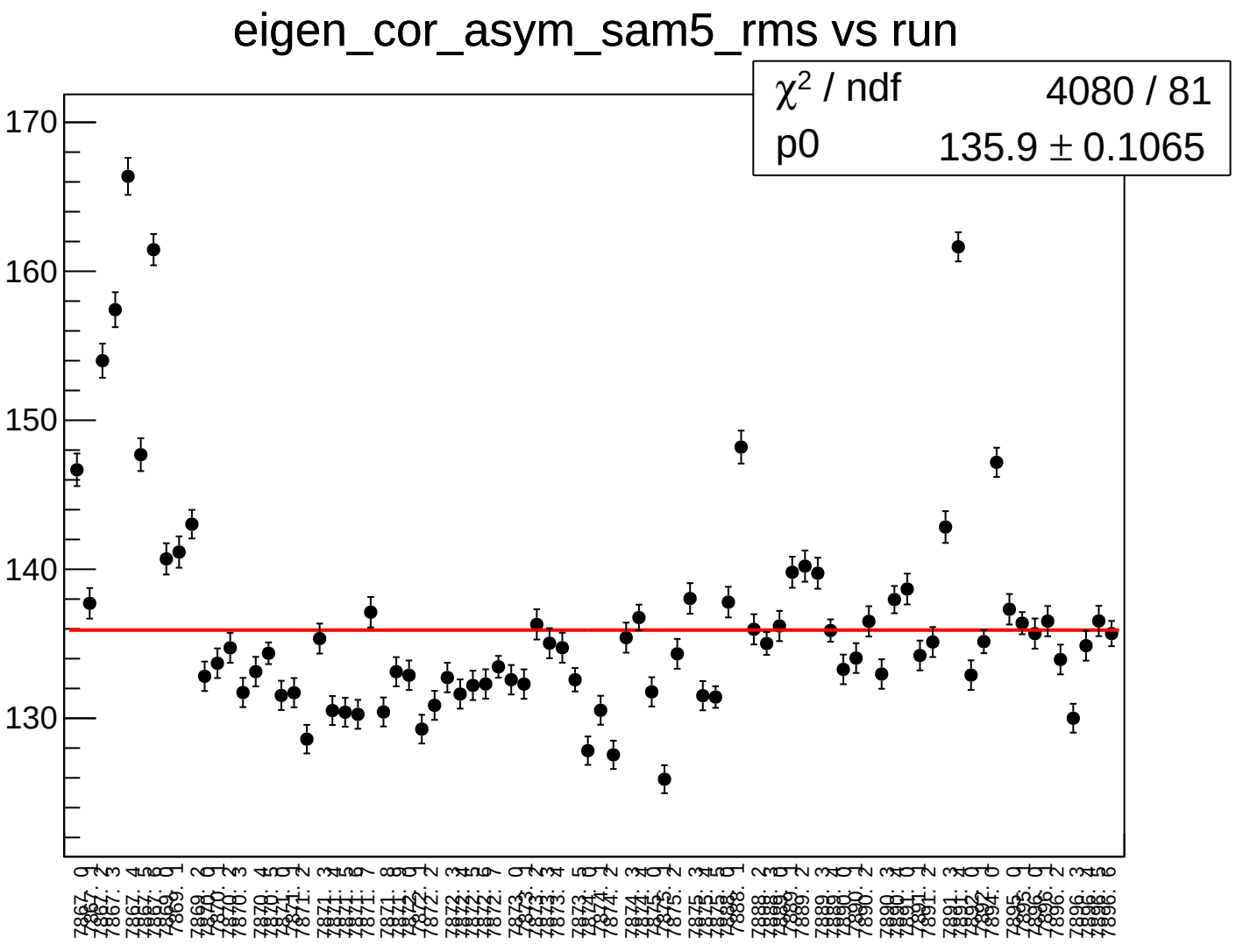

cor_asym_sam5_rms vs run
χ^2 / ndf 4080 / 81
p0 135.9 ± 0.1065
170
160
150
140
130

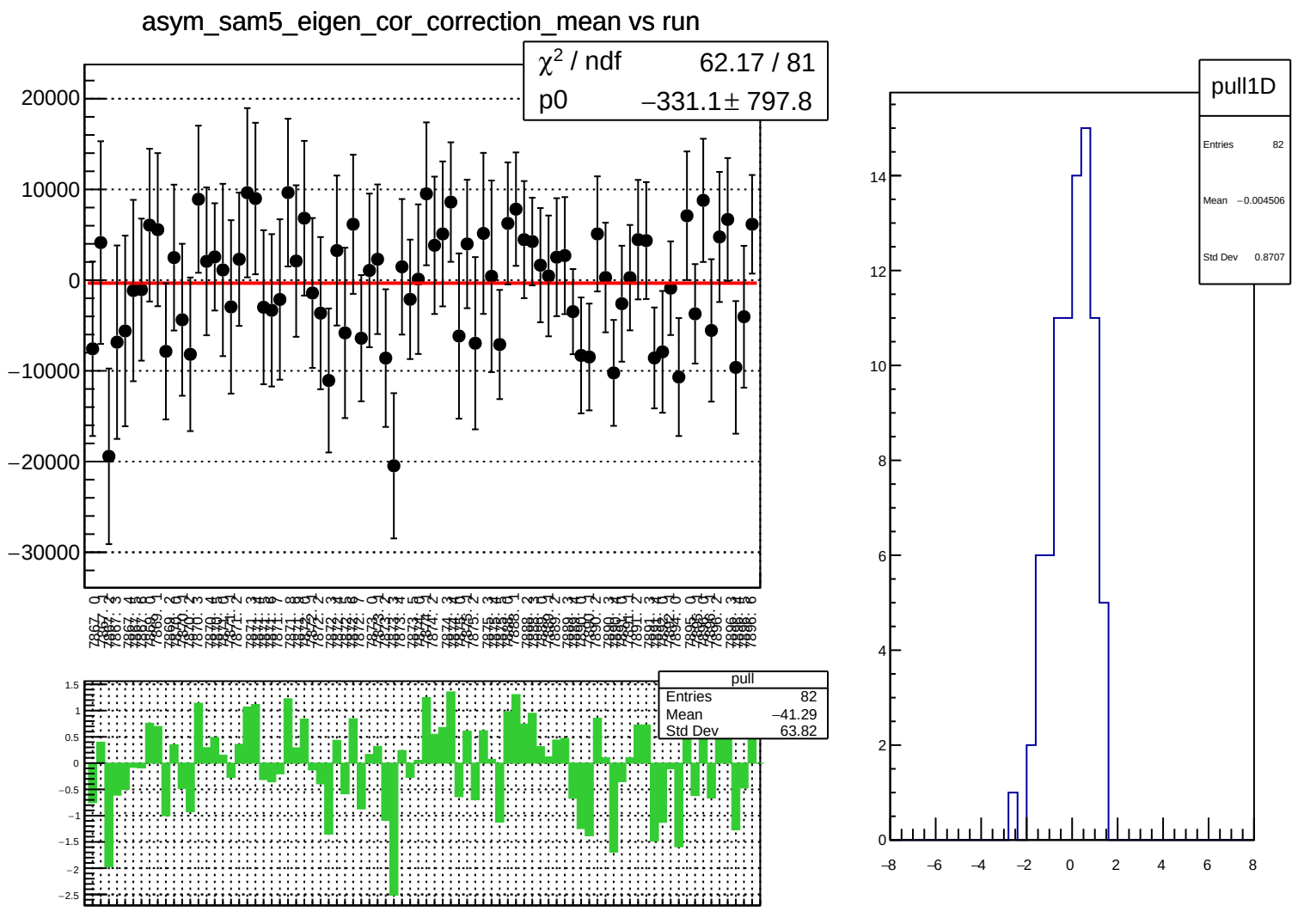

asym_sam5_cor_correction_mean vs run
χ² / ndf 62.17 / 81
p0 −331.1± 797.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −41.29
Std Dev 63.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.004506
Std Dev 0.8707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

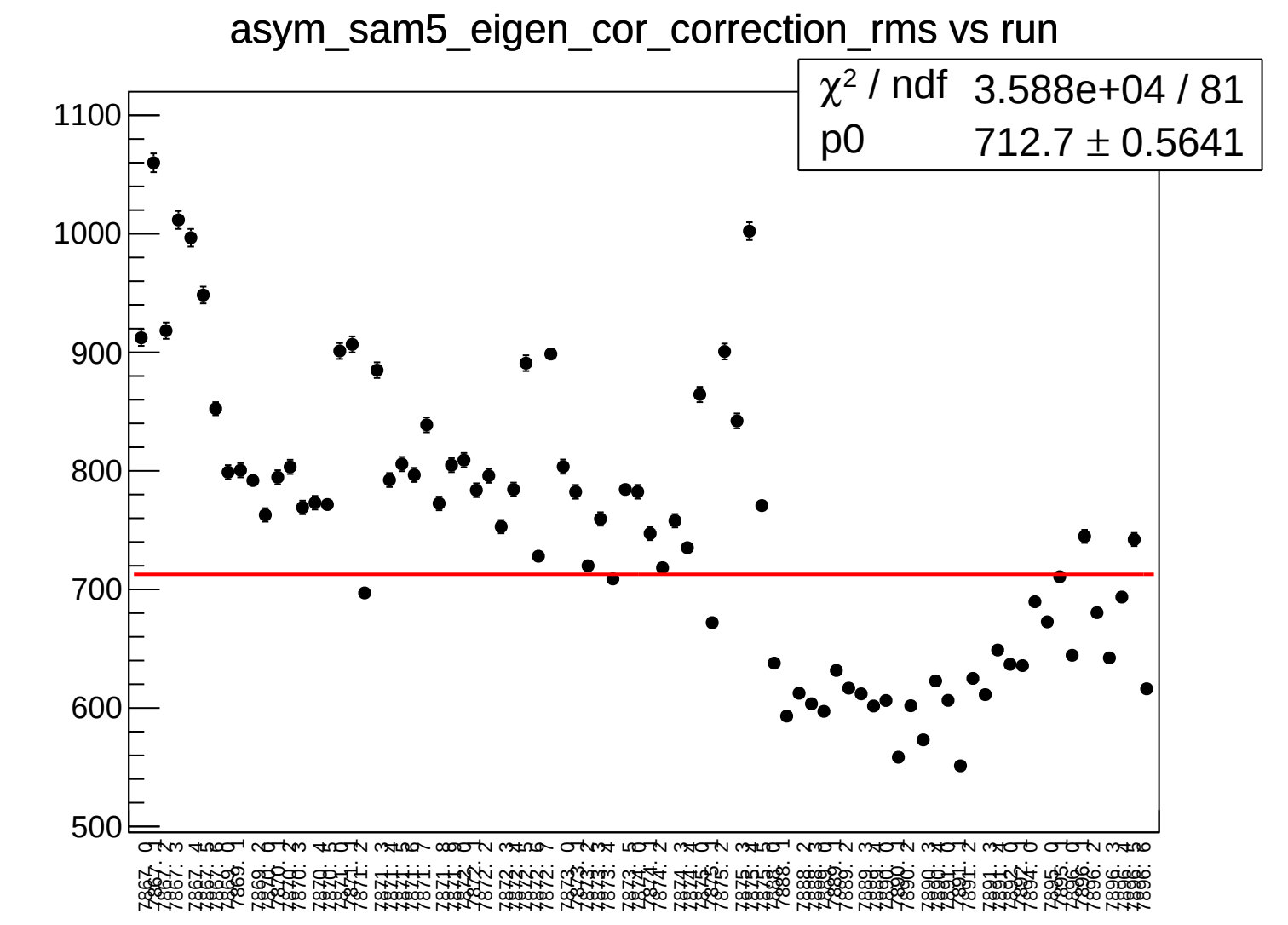

asym_sam5_cor_correction_rms vs run
χ² / ndf 3.588e+04 / 81
p0 712.7 ± 0.5641
1100
1000
900
800
700
600
500

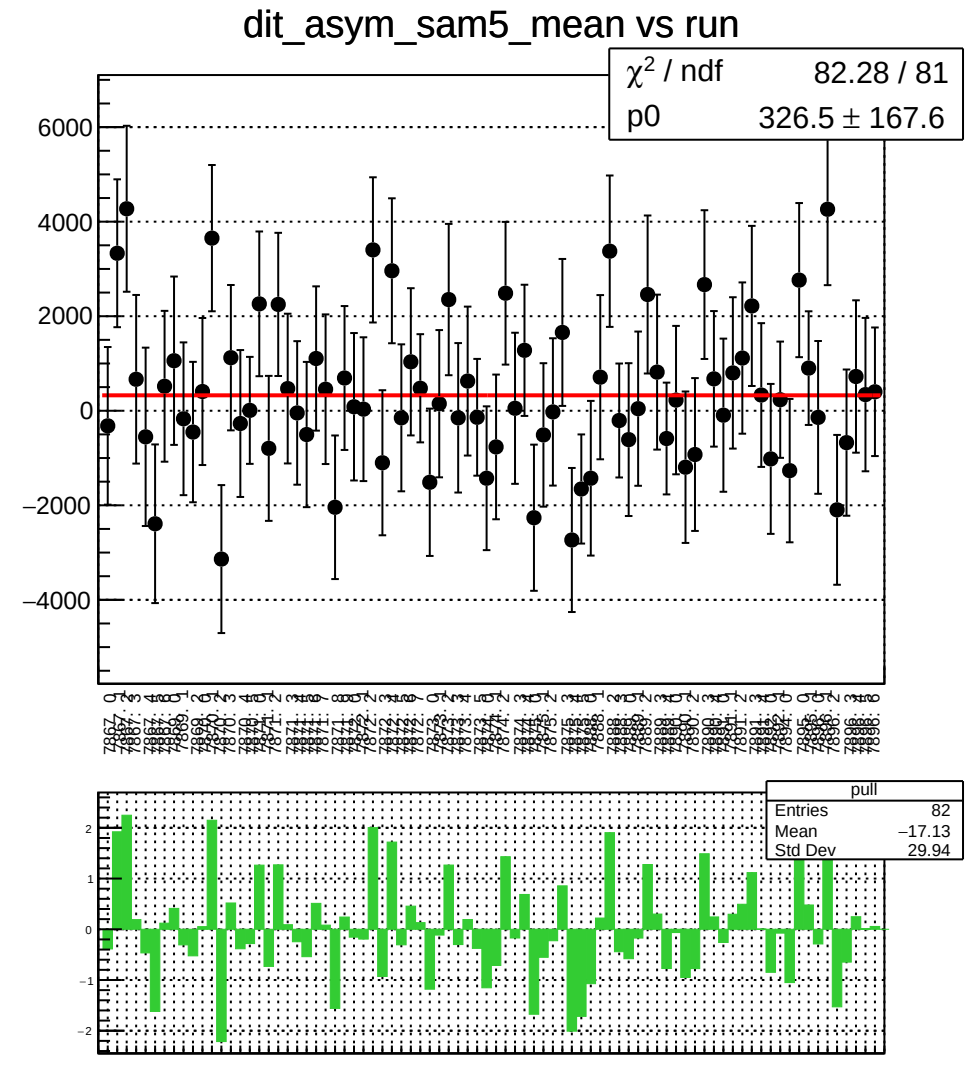

eigen_cor_asym_sam5_mean vs run
χ² / ndf 82.59 / 81
p0 87.38 ± 150.6
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 20.49
Std Dev 55.52
3
2
1
0
−1
−2

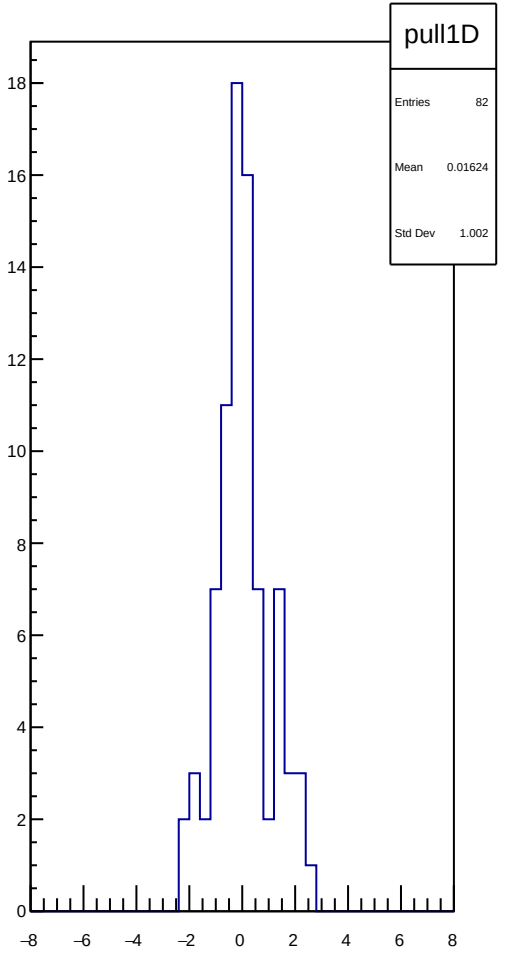

pull1D
Entries 82
Mean 0.0209
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

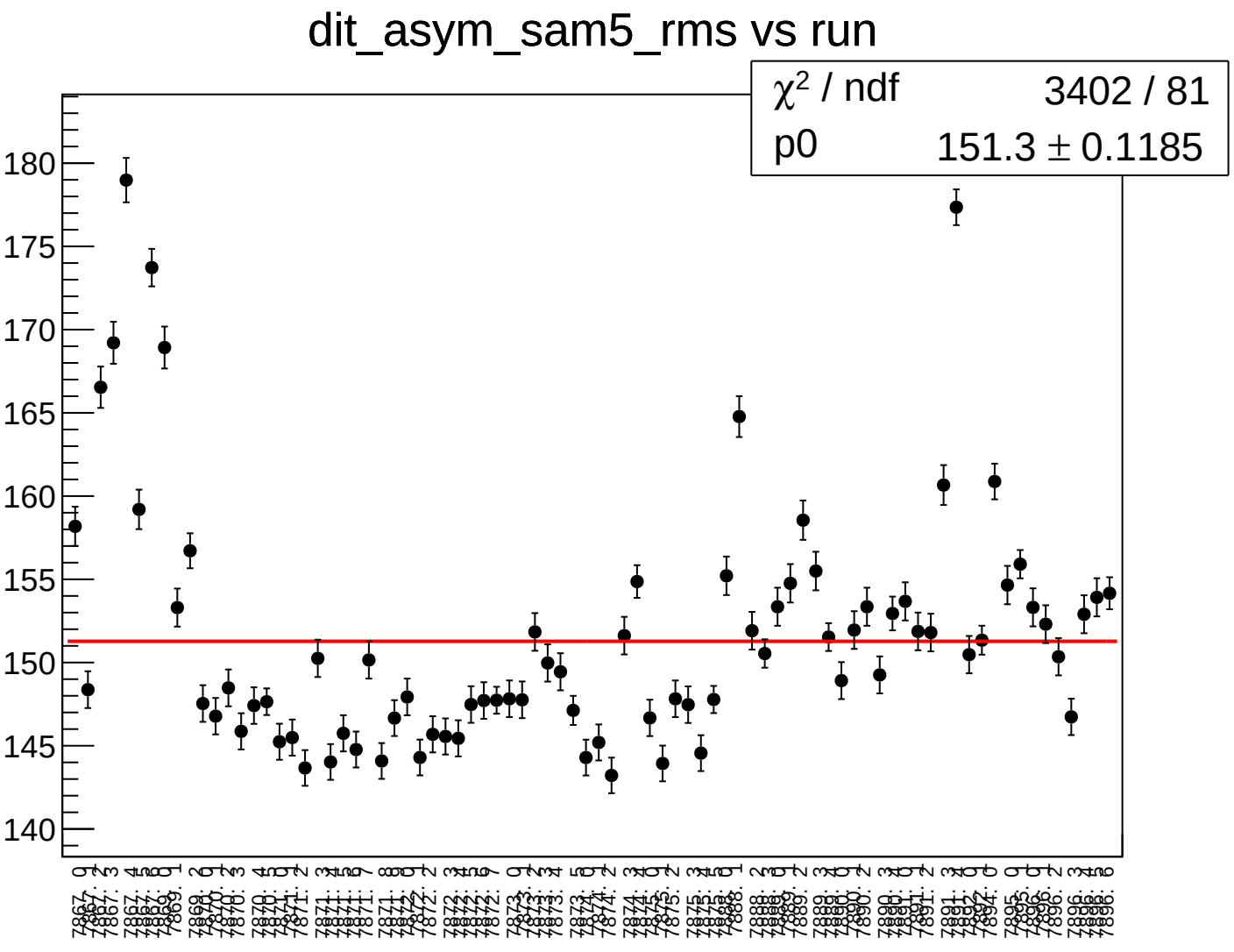

eigen_cor_asym_sam5_rms vs run
χ² / ndf 4080 / 81
p0 135.9 ± 0.1065
170
160
150
140
130

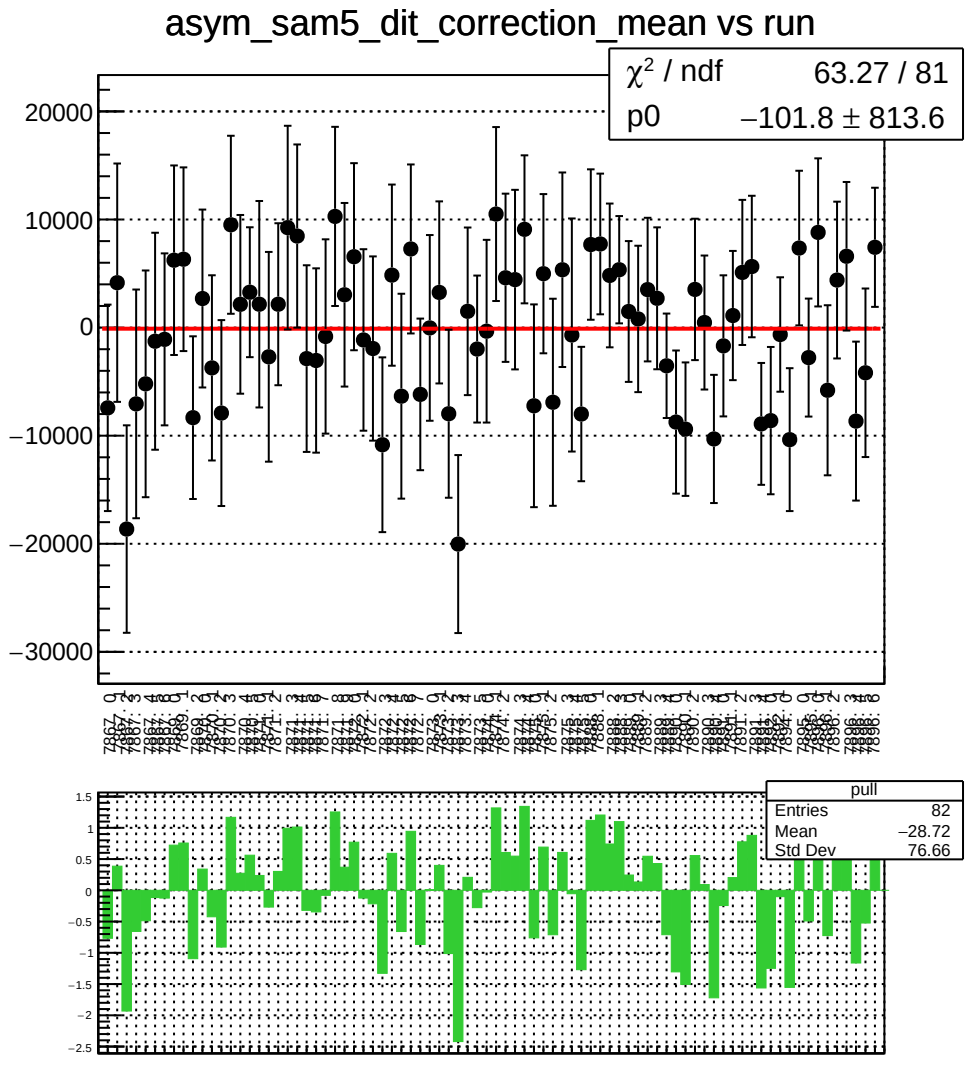

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 62.17 / 81
p0 −331.1± 797.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −41.29
Std Dev 63.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.004506
Std Dev 0.8707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

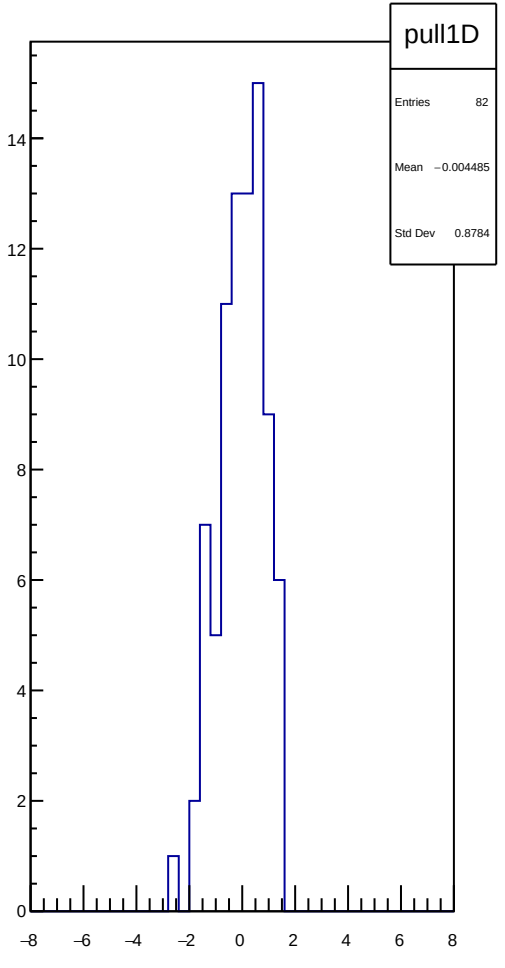

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3.588e+04 / 81
p0 712.7 ± 0.5641
1100
1000
900
800
700
600
500

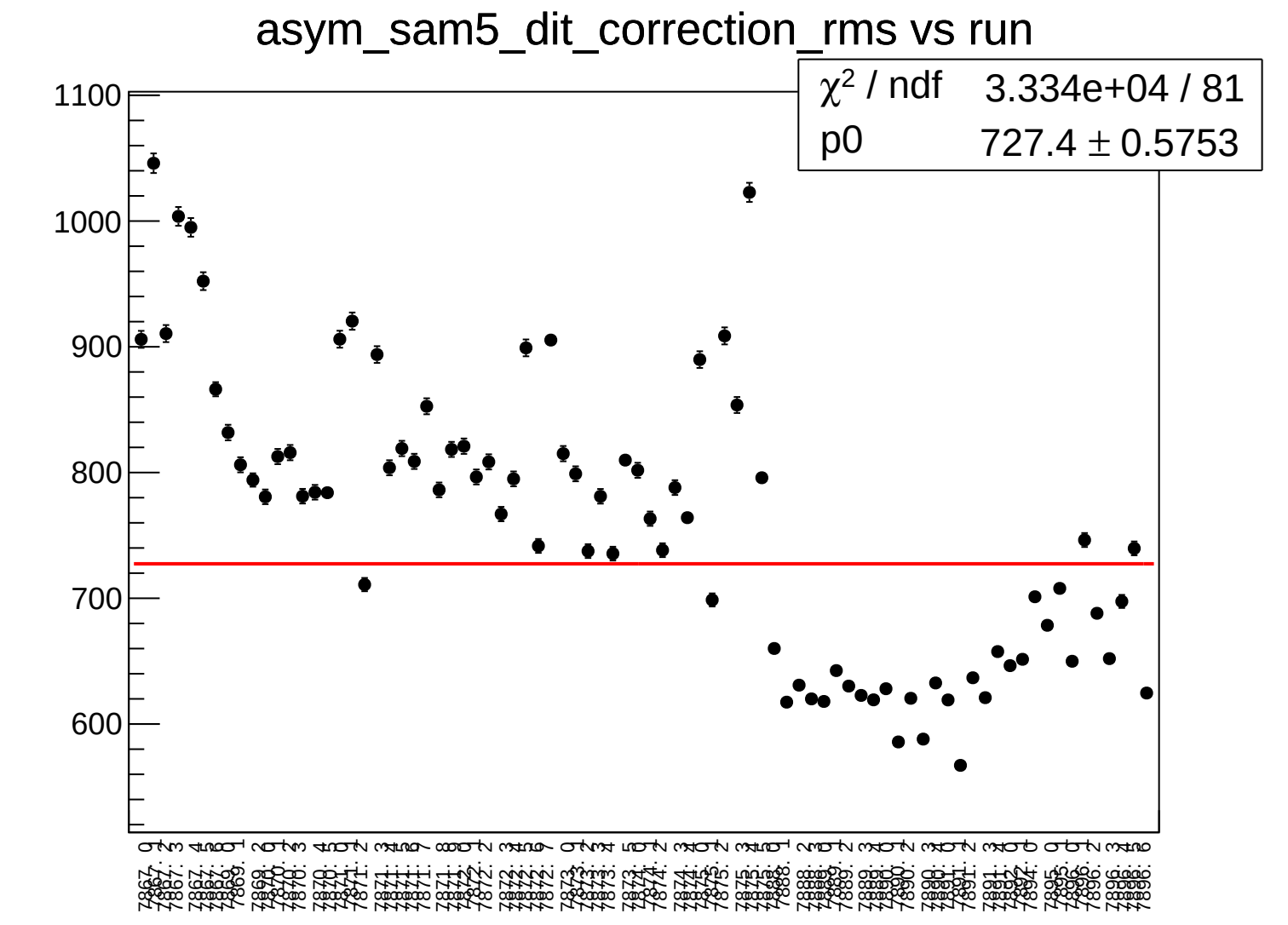

dit_asym_sam5_mean vs run
χ² / ndf 82.28 / 81
p0 326.5 ± 167.6
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −17.13
Std Dev 29.94
2
1
0
−1
−2

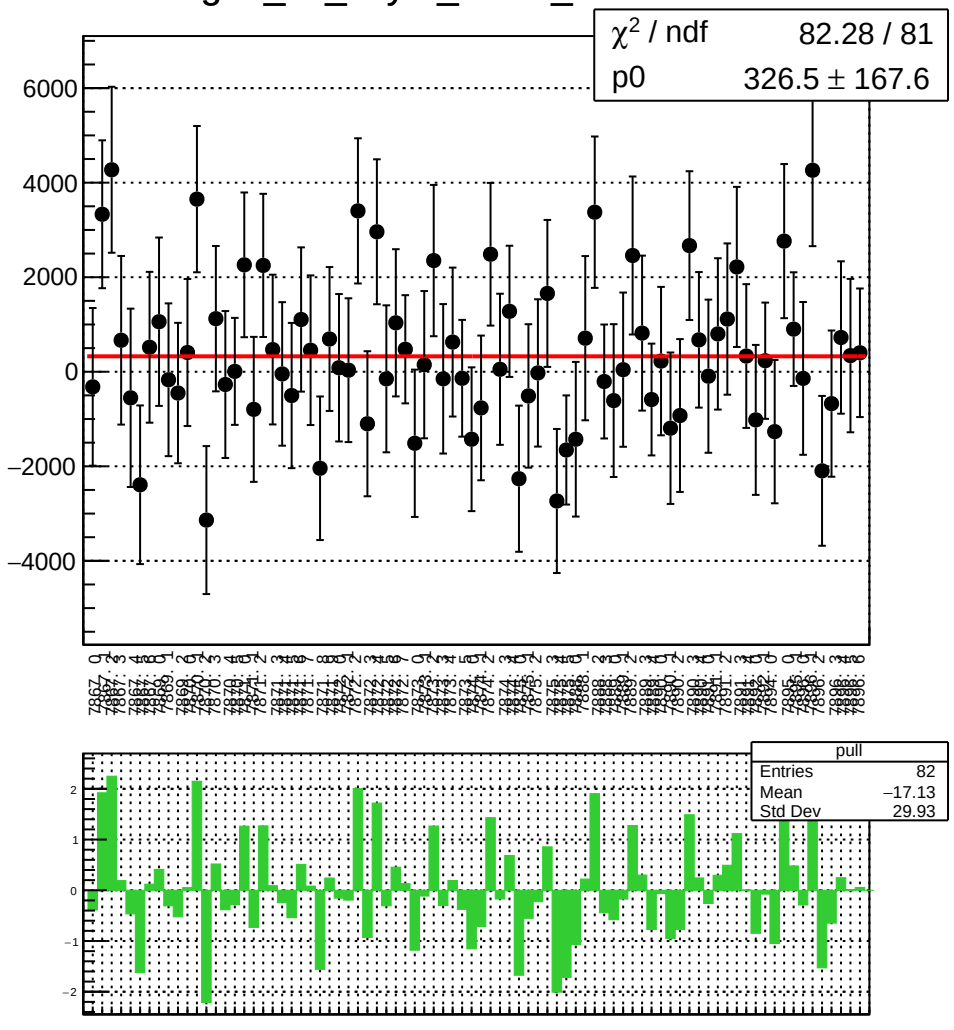

pull1D
Entries 82
Mean 0.01624
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

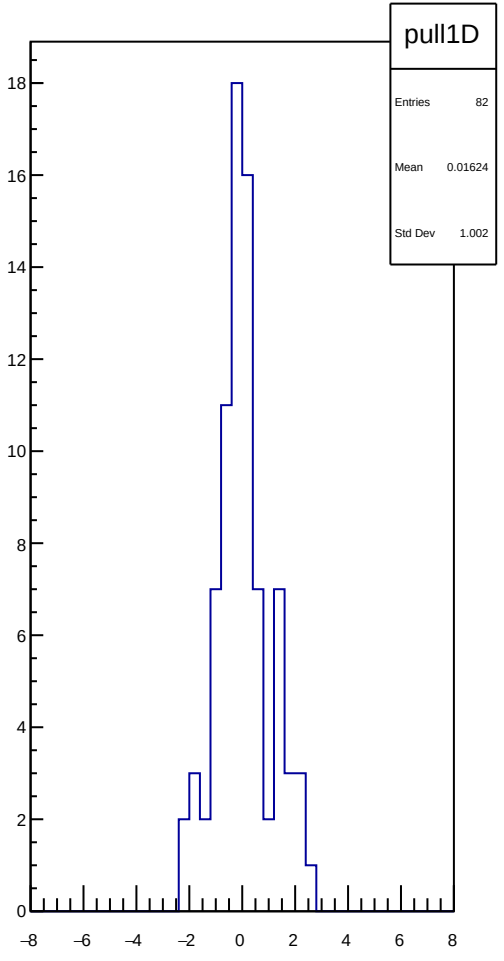

dit_asym_sam5_rms vs run
χ² / ndf 3402 / 81
p0 151.3 ± 0.1185
180
175
170
165
160
155
150
145
140

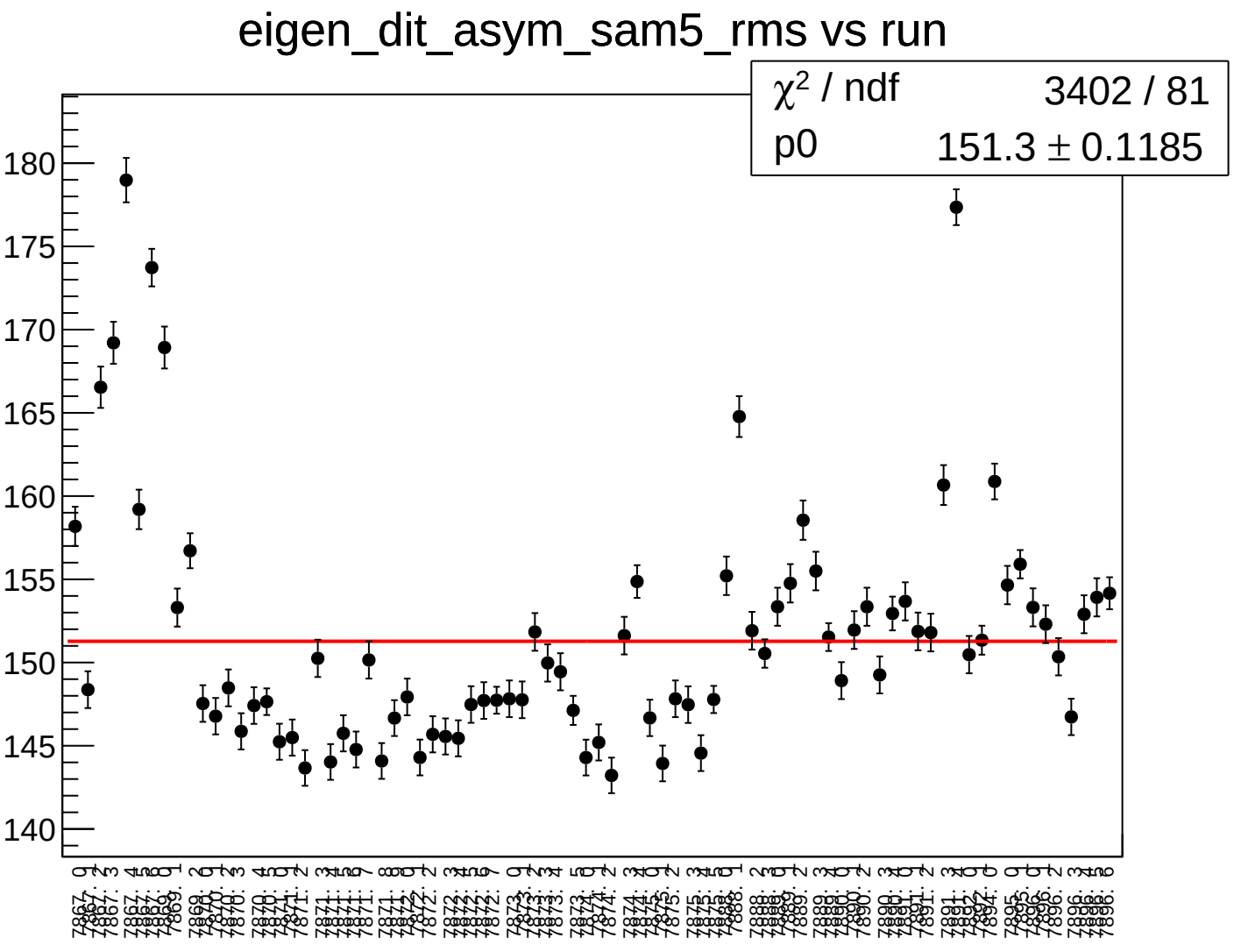

asym_sam5_dit_correction_mean vs run
χ² / ndf 63.27 / 81
p0 −101.8 ± 813.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −28.72
Std Dev 76.66
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

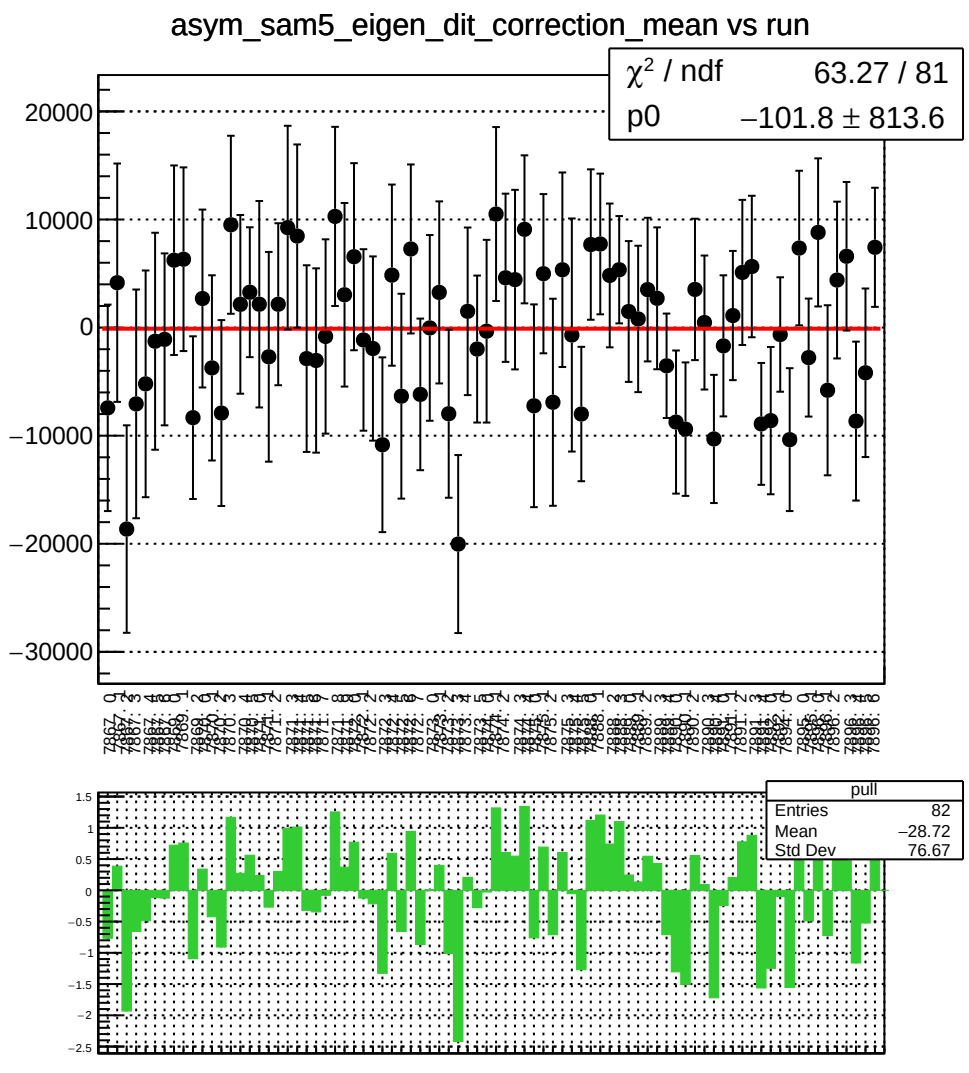

pull1D
Entries 82
Mean −0.004485
Std Dev 0.8784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

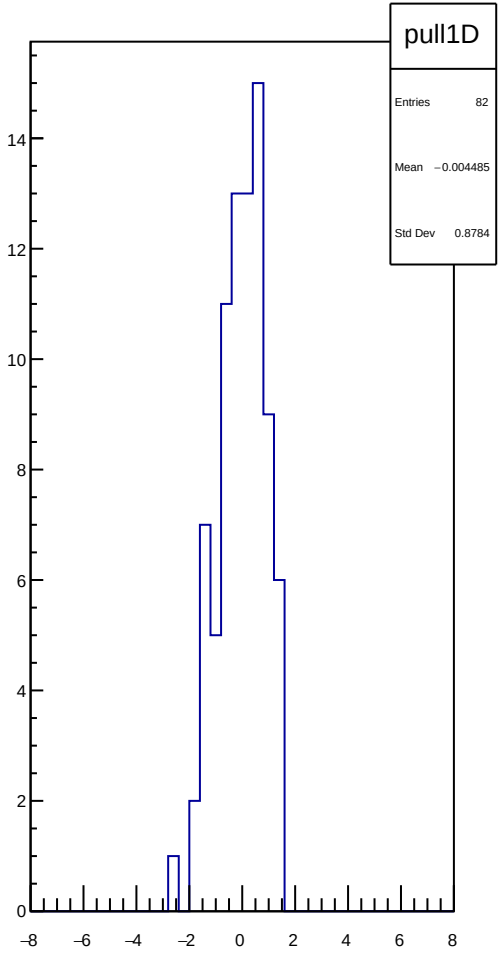

asym_sam5_dit_correction_rms vs run
χ² / ndf 3.334e+04 / 81
p0 727.4 ± 0.5753
1100
1000
900
800
700
600

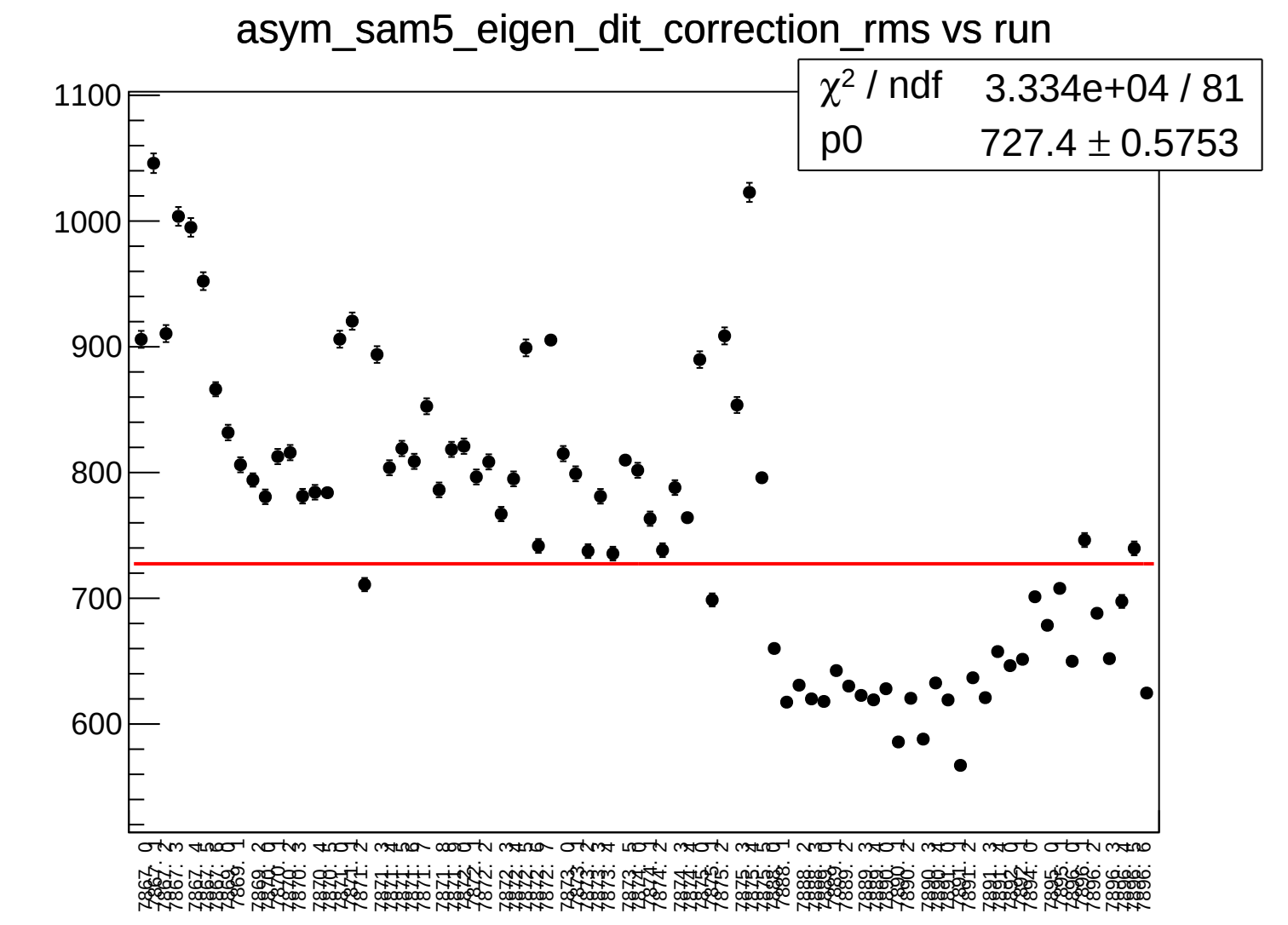

eigen_dit_asym_sam5_mean vs run
χ² / ndf 82.28 / 81
p0 326.5 ± 167.6
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −17.13
Std Dev 29.93
2
1
0
−1
−2

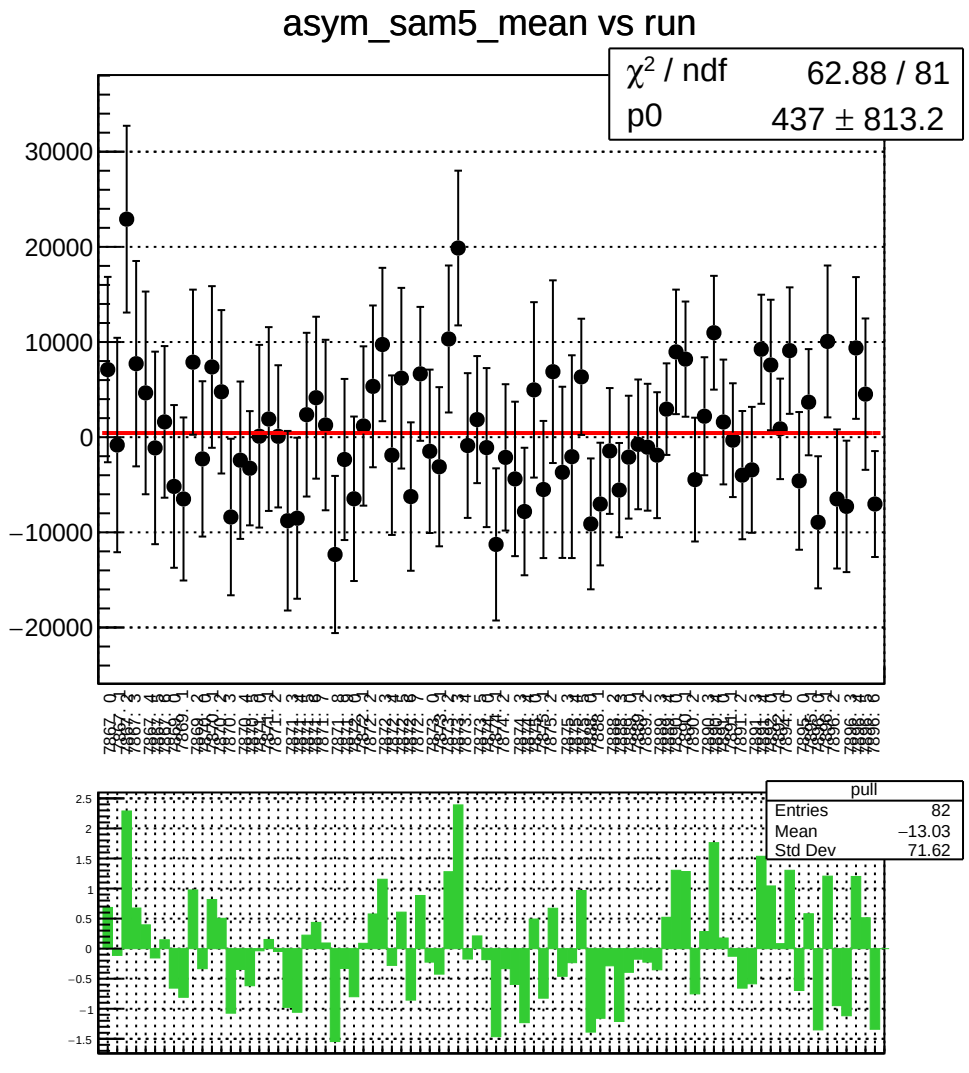

pull1D
Entries 82
Mean 0.01624
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

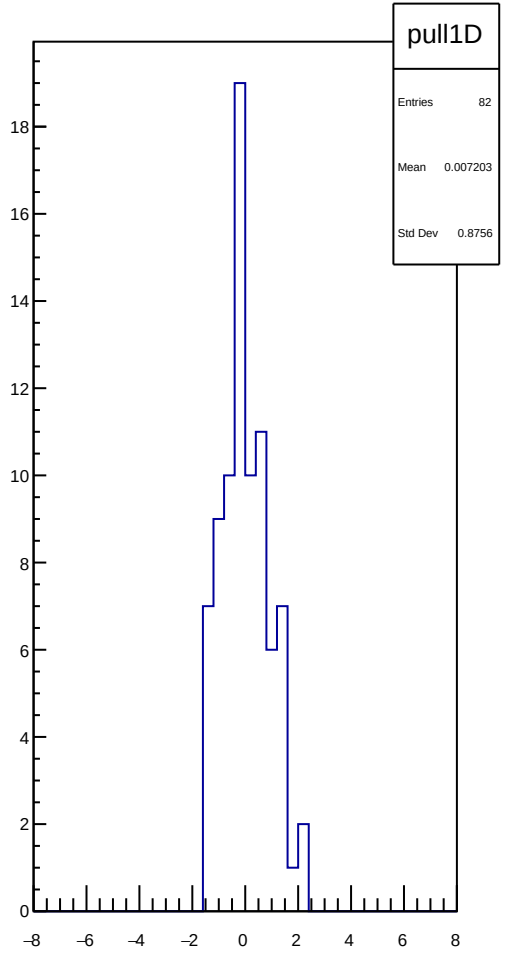

eigen_dit_asym_sam5_rms vs run
χ² / ndf 3402 / 81
p0 151.3 ± 0.1185
180
175
170
165
160
155
150
145
140

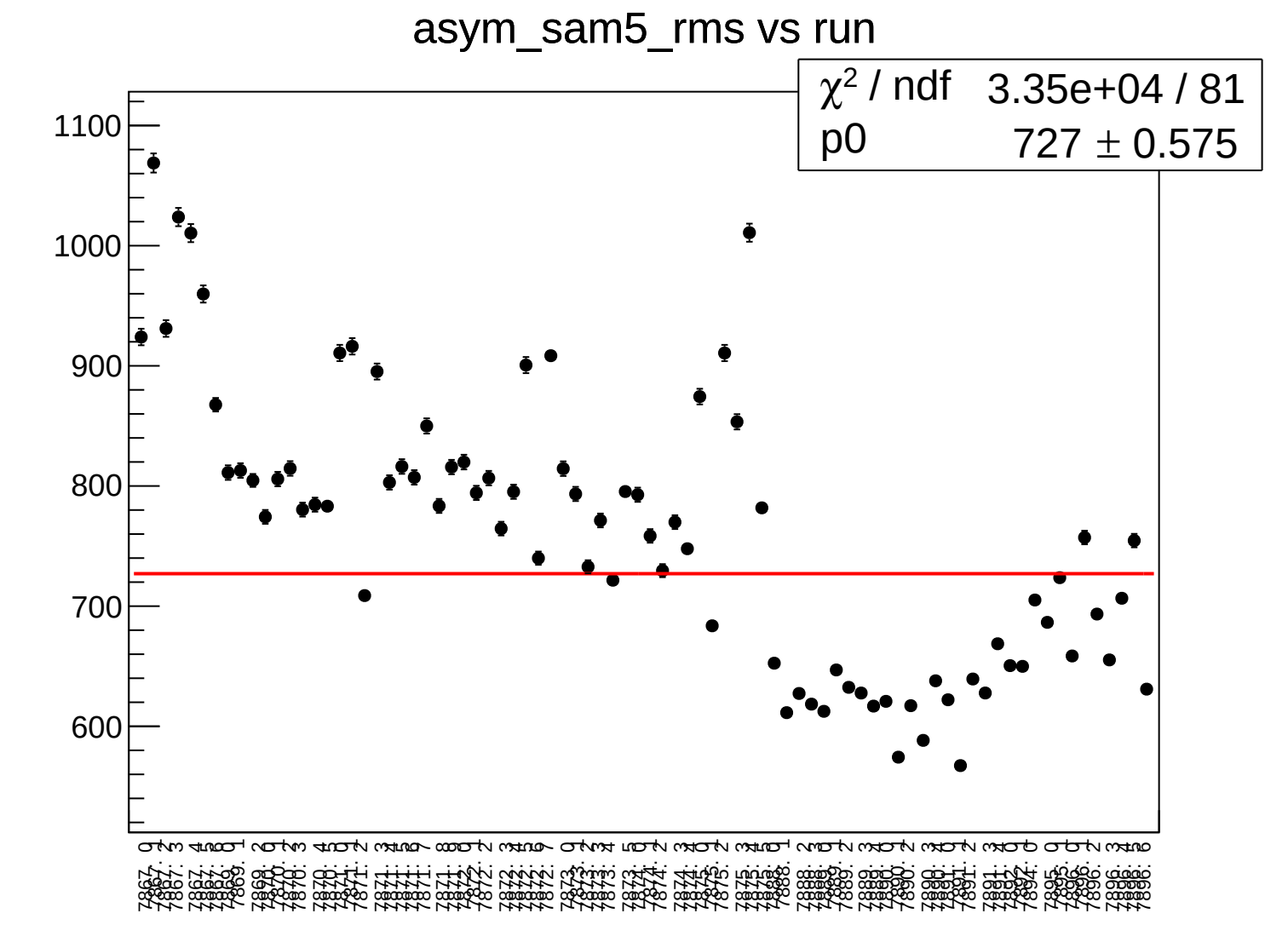

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 63.27 / 81
p0 −101.8 ± 813.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −28.72
Std Dev 76.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

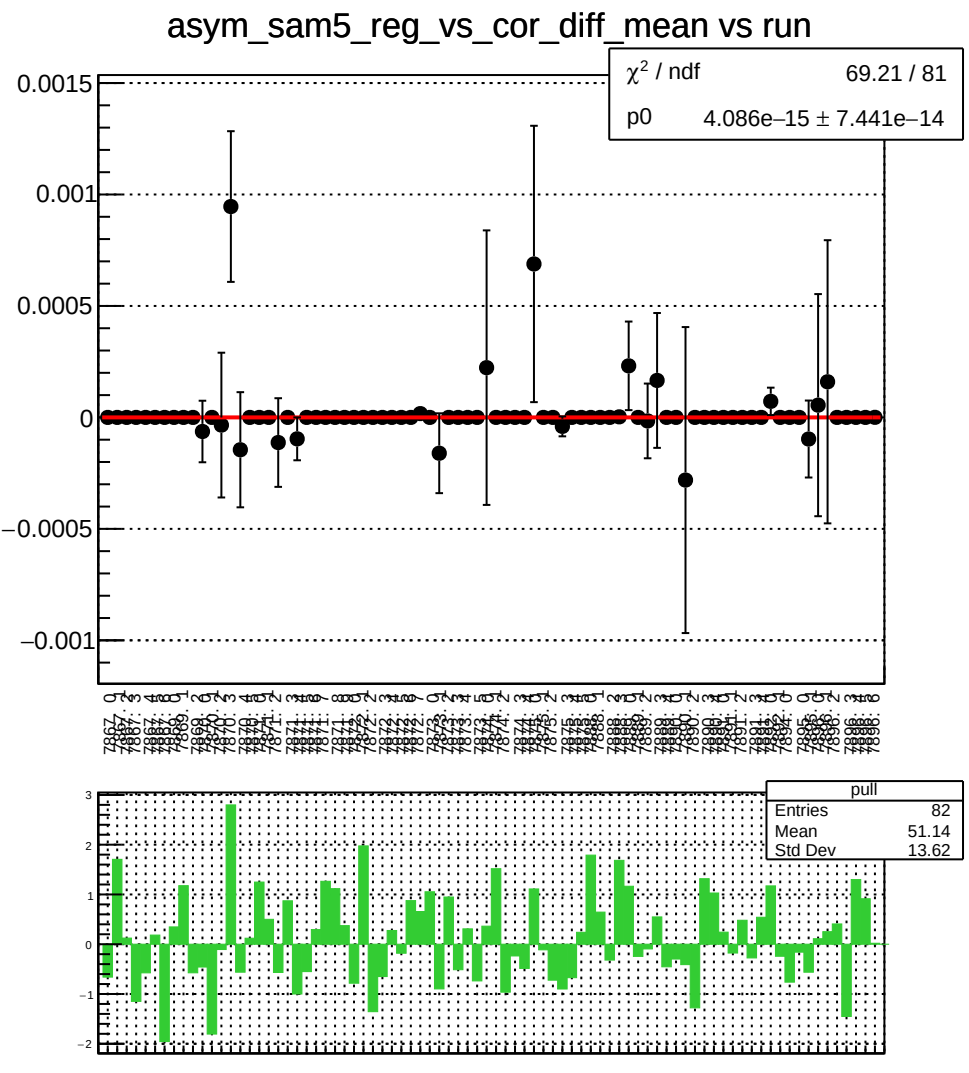

pull1D
Entries 82
Mean −0.004485
Std Dev 0.8784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

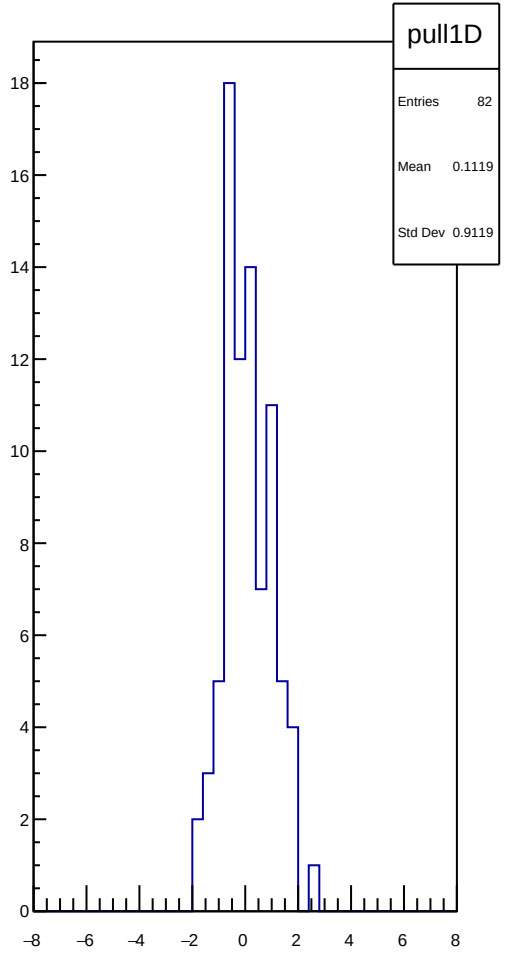

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3.334e+04 / 81
p0 727.4 ± 0.5753
1100
1000
900
800
700
600

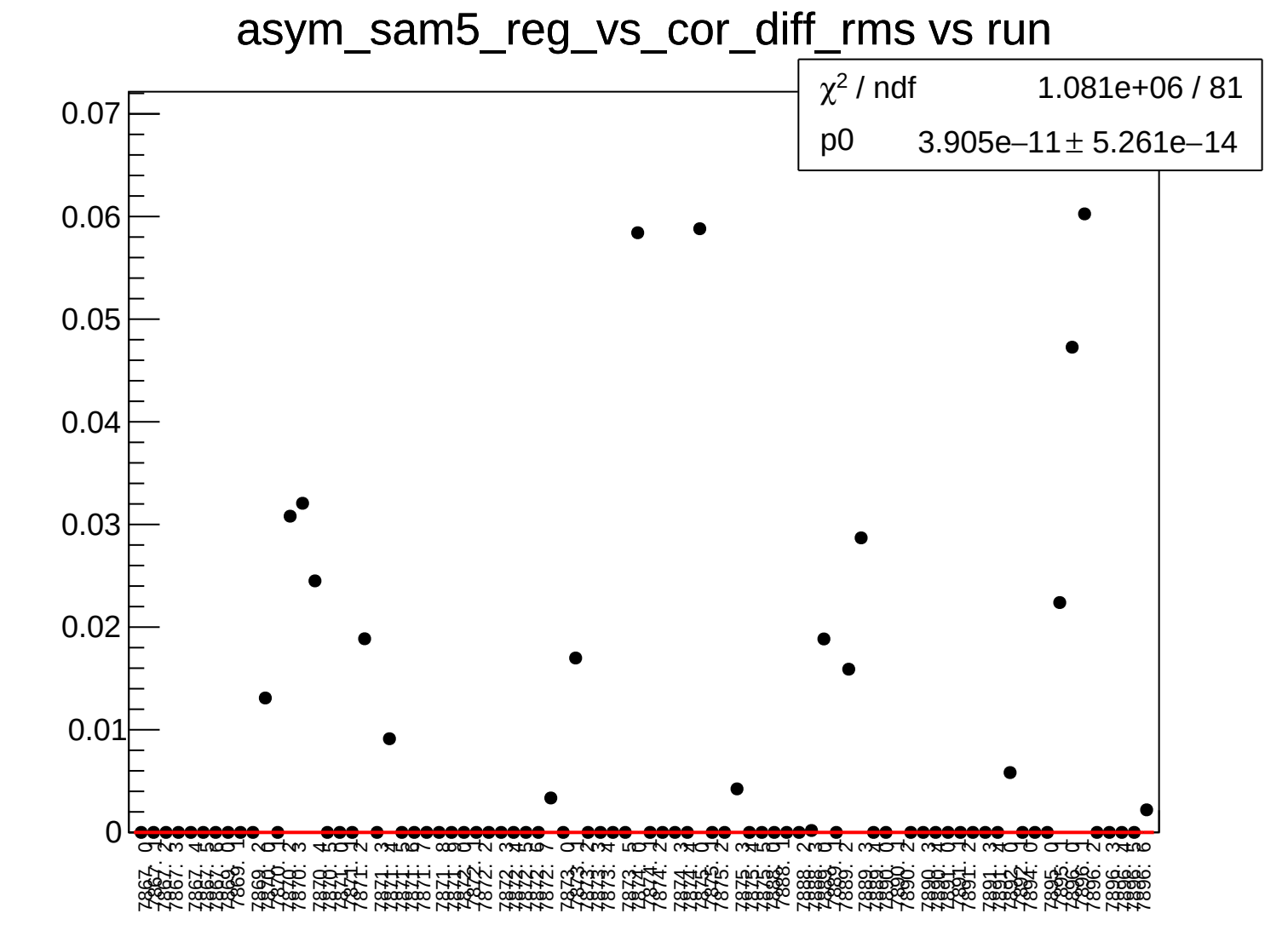

asym_sam5_mean vs run
χ² / ndf 62.88 / 81
p0 437 ± 813.2
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −13.03
Std Dev 71.62
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

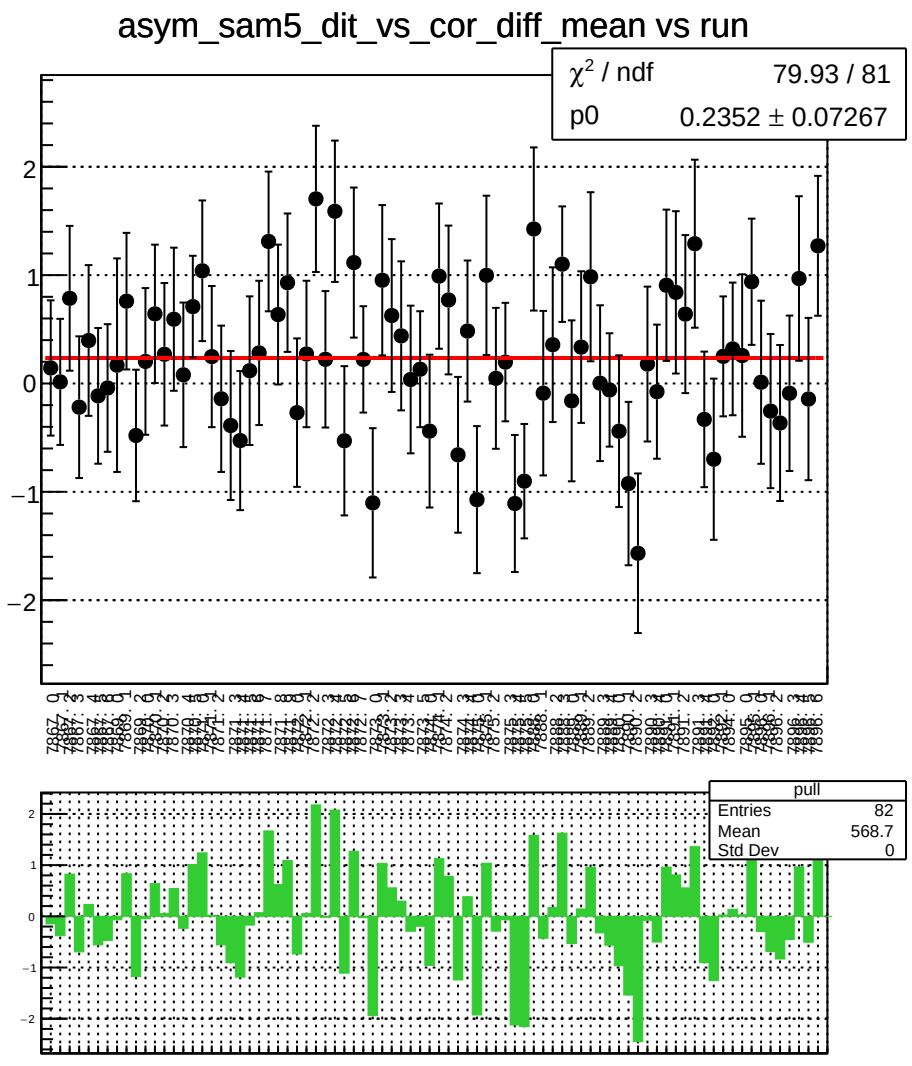

pull1D
Entries 82
Mean 0.007203
Std Dev 0.8756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

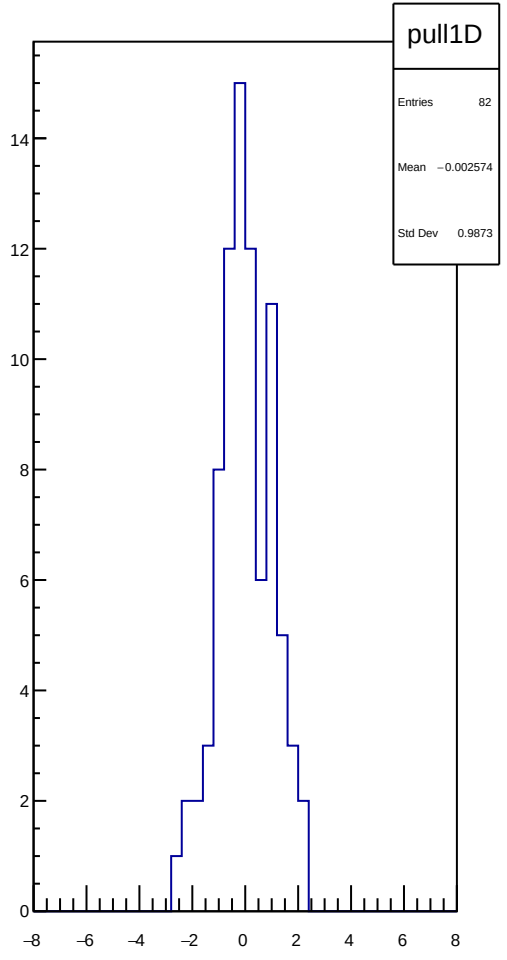

asym_sam5_rms vs run
χ² / ndf 3.35e+04 / 81
p0 727 ± 0.575
1100
1000
900
800
700
600

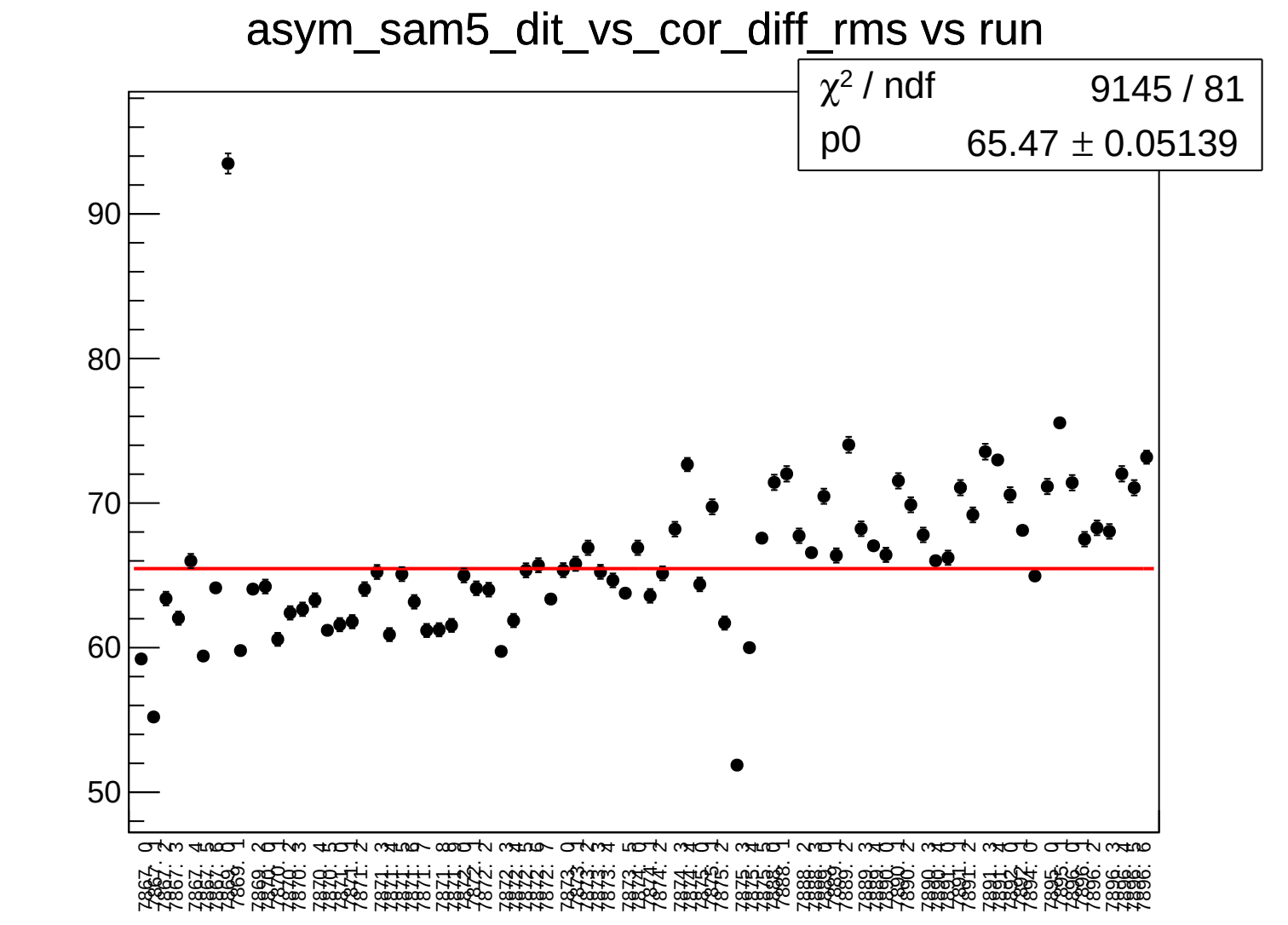

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 69.21 / 81
p0 4.086e−15 ± 7.441e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean 51.14
Std Dev 13.62
3
2
1
0
−1
−2

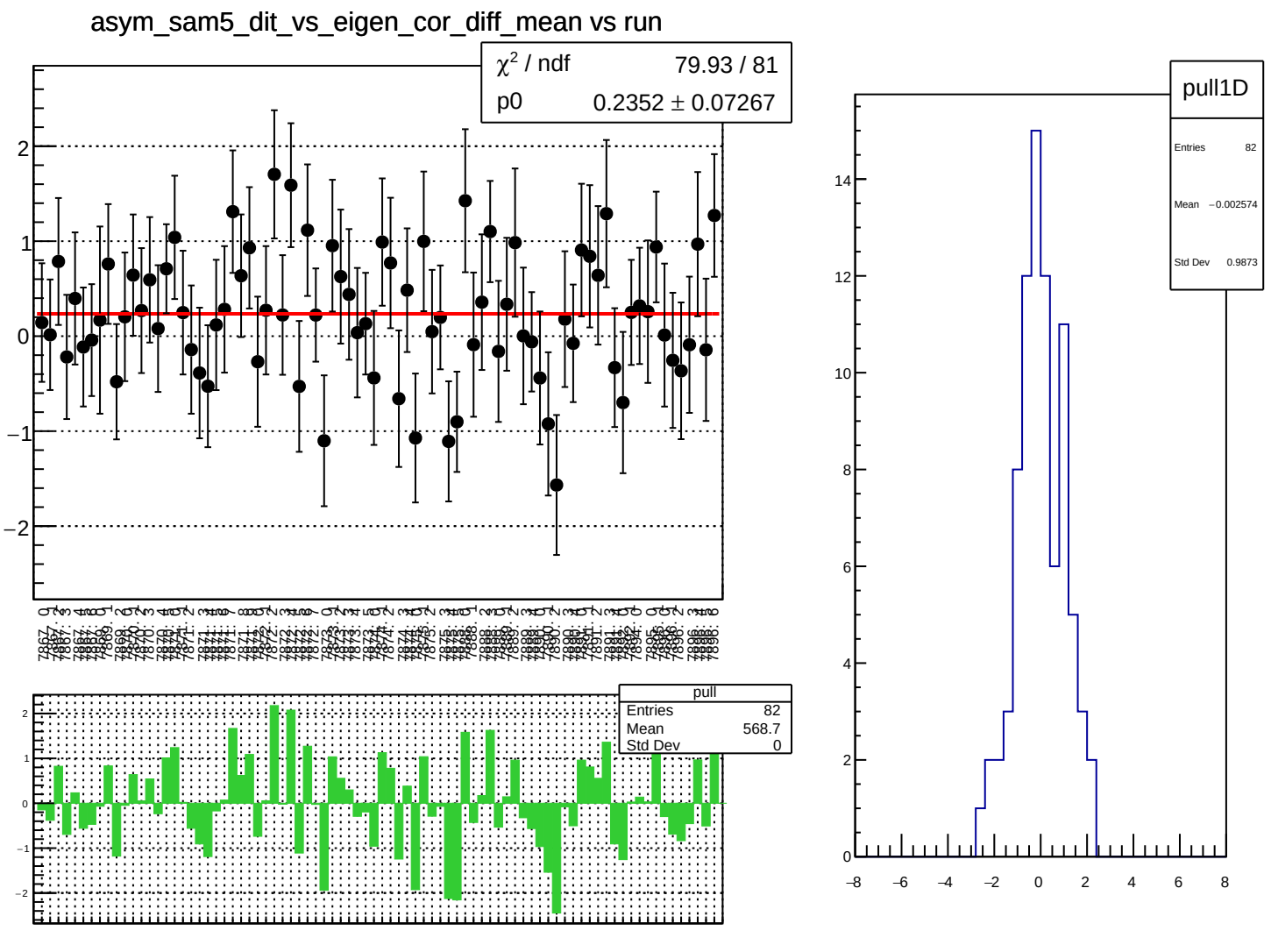

pull1D
Entries 82
Mean 0.1119
Std Dev 0.9119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

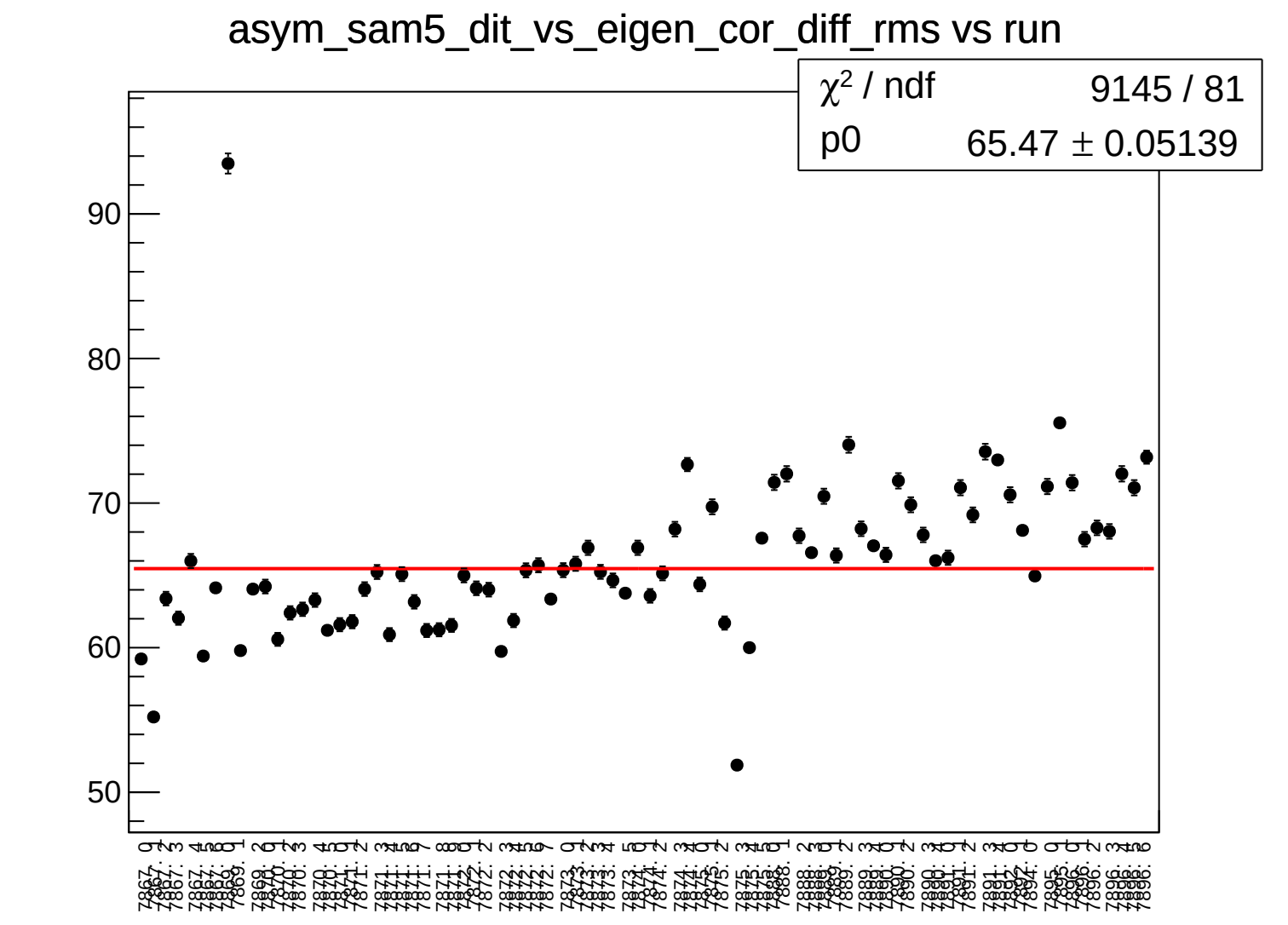

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 81
p0 3.905e−11 ± 5.261e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

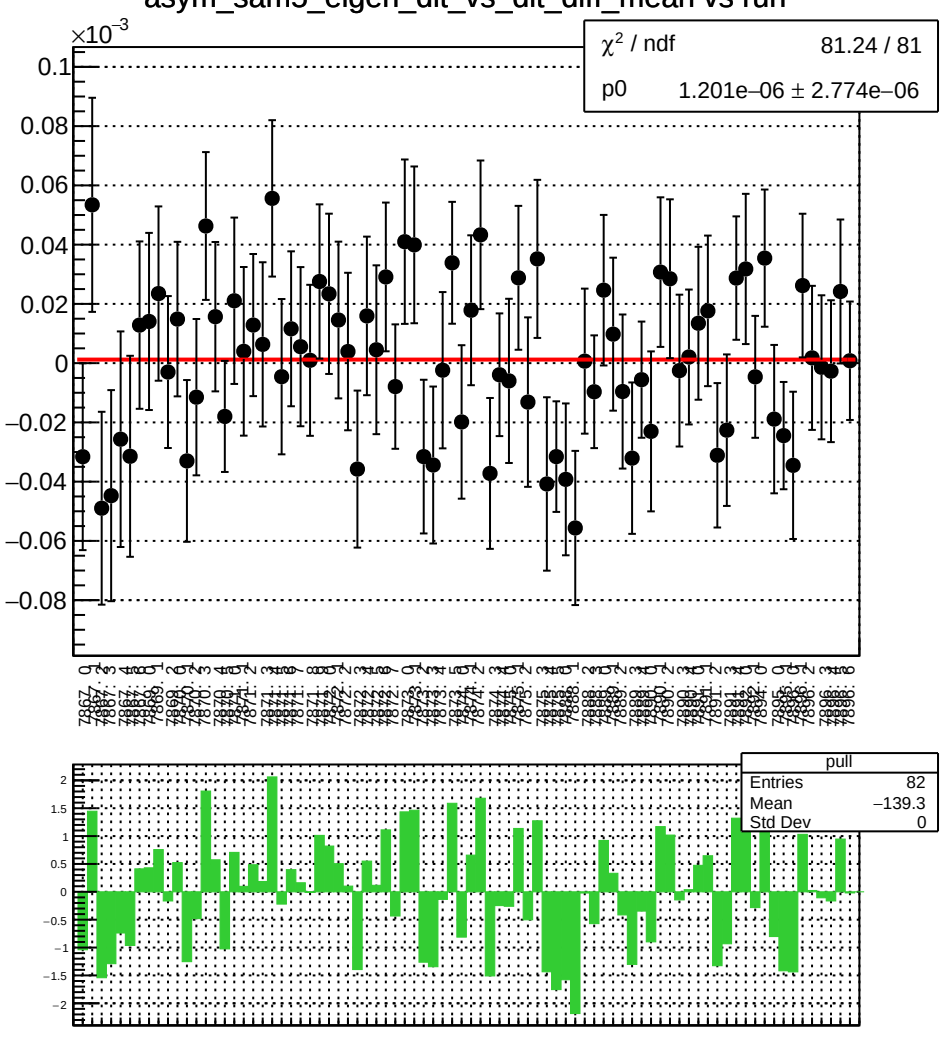

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 81
p0 0.2352 ± 0.07267
pull
Entries 82
Mean 568.7
Std Dev 0

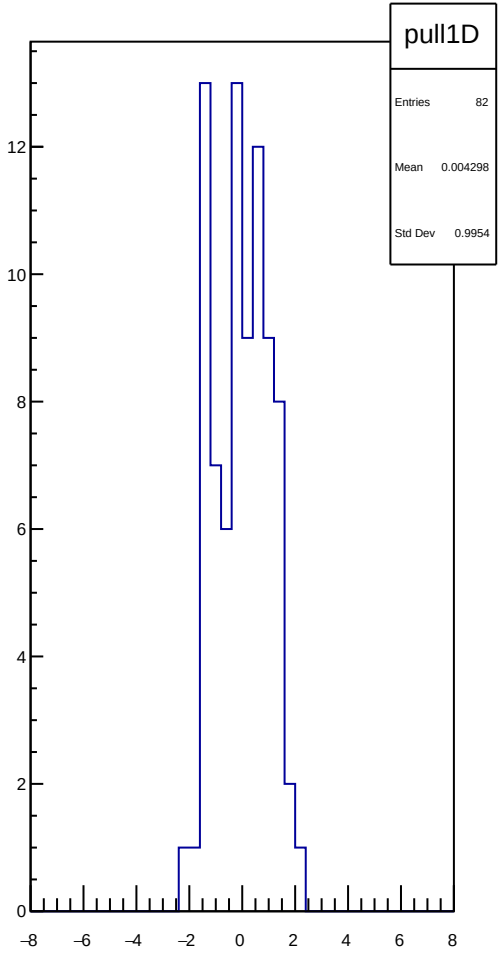

pull1D
Entries 82
Mean −0.002574
Std Dev 0.9873

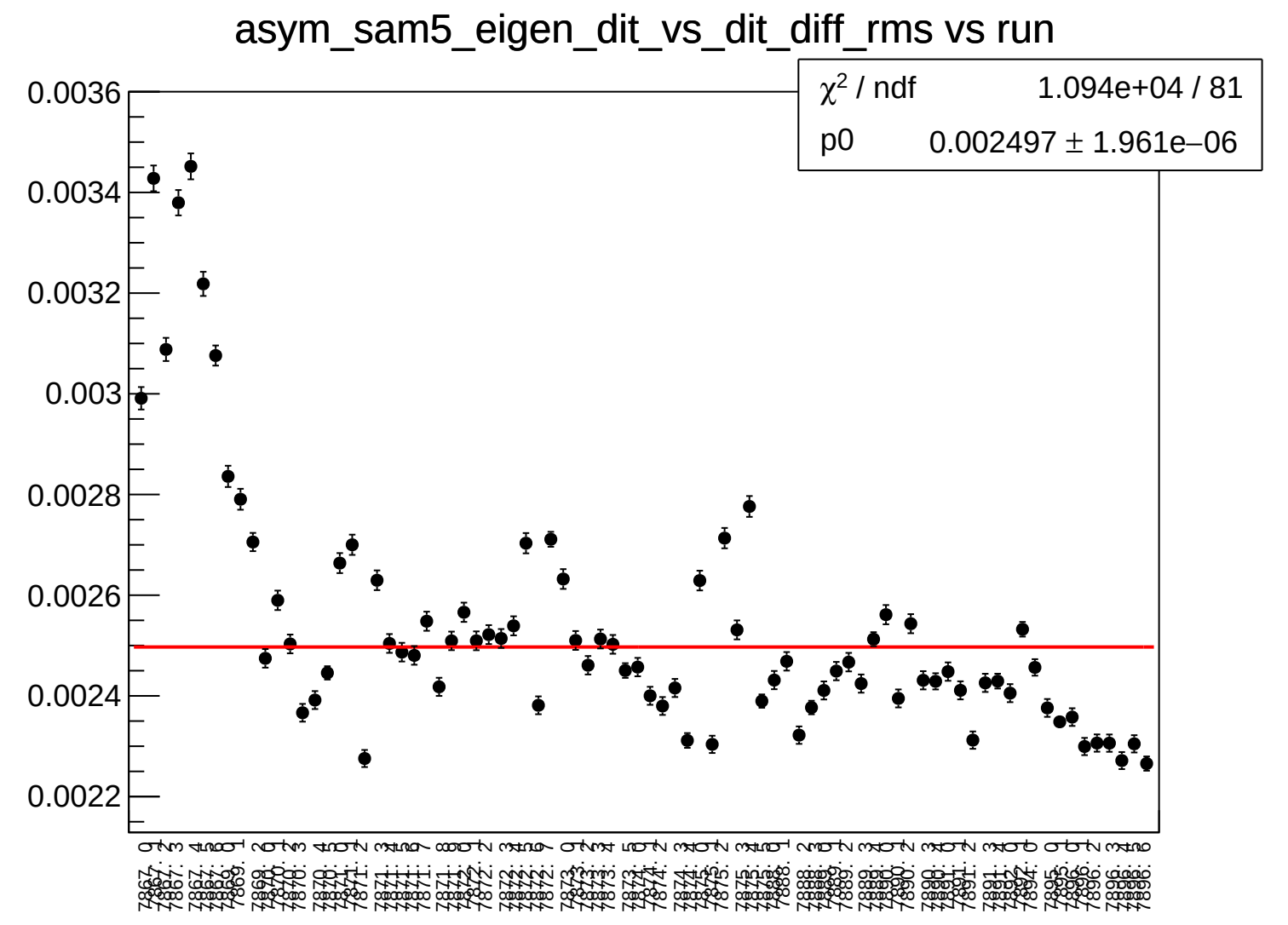

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 9145 / 81
p0 65.47 ± 0.05139
90
80
70
60
50

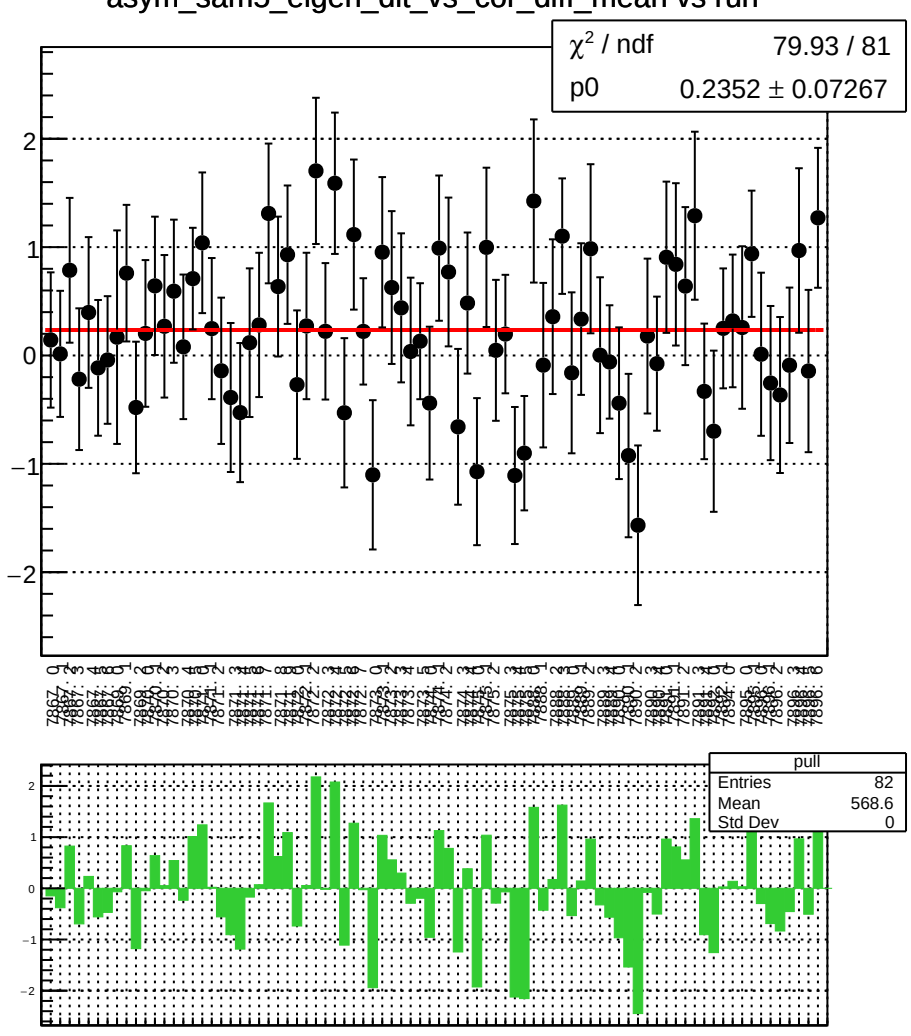

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.93 / 81
p0 0.2352 ± 0.07267
pull
Entries 82
Mean 568.7
Std Dev 0
pull1D
Entries 82
Mean −0.002574
Std Dev 0.9873

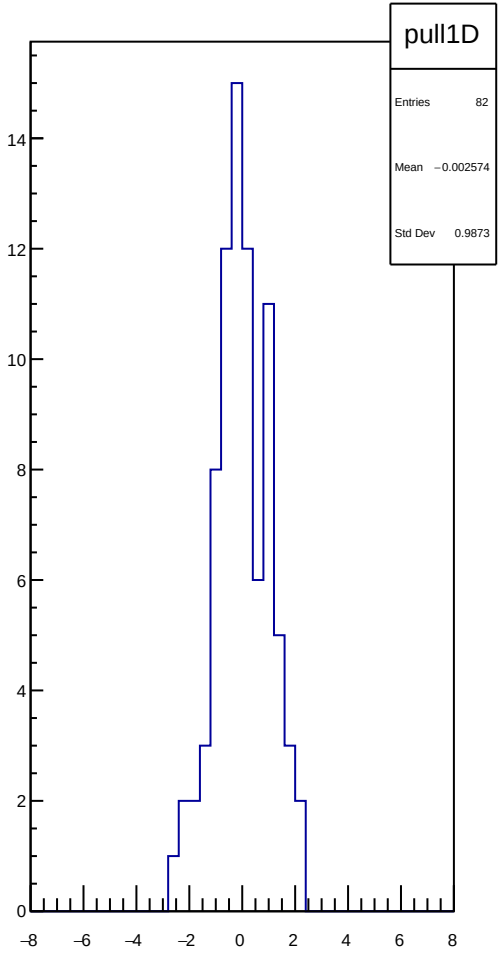

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9145 / 81
p0 65.47 ± 0.05139
90
80
70
60
50

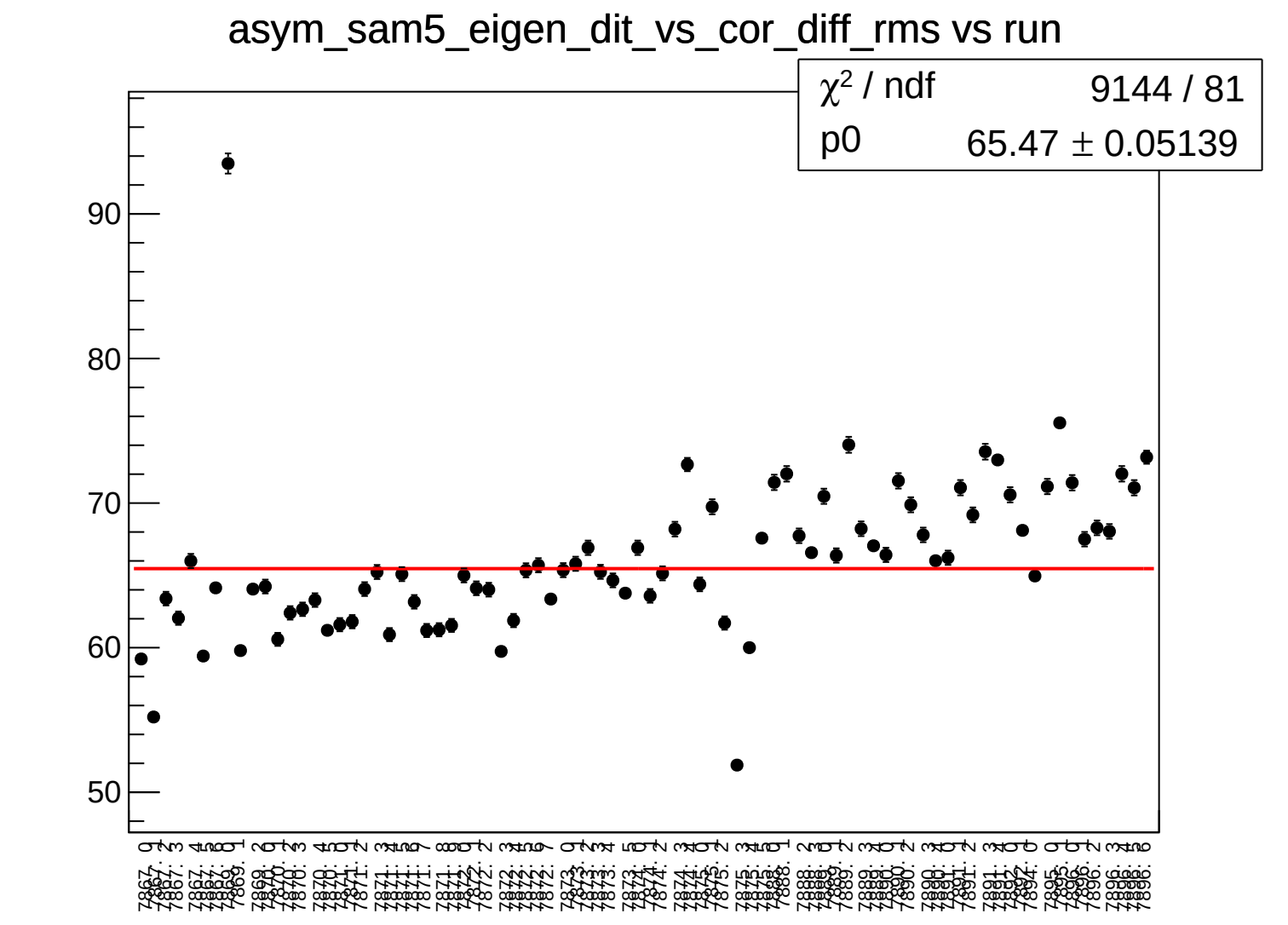

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.24 / 81
p0 1.201e−06 ± 2.774e−06
pull
Entries 82
Mean −139.3
Std Dev 0

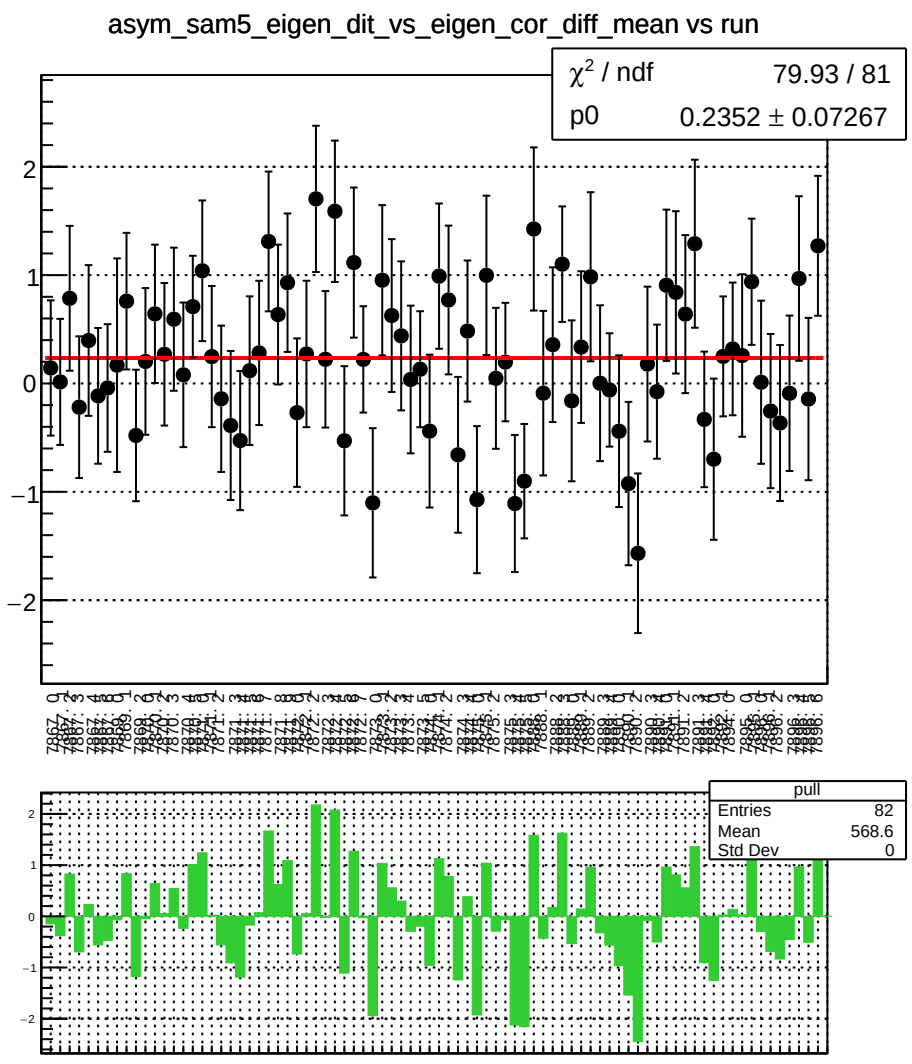

pull1D
Entries 82
Mean 0.004298
Std Dev 0.9954

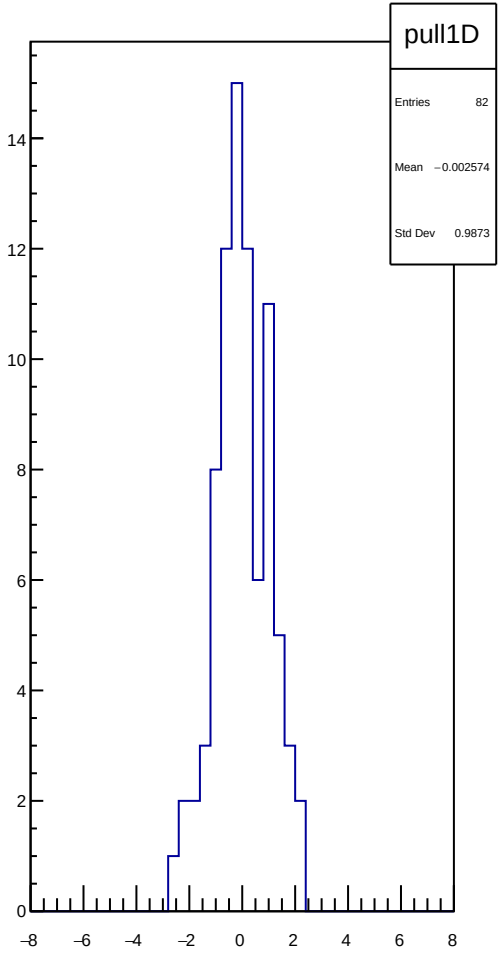

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.094e+04 / 81
p0 0.002497 ± 1.961e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

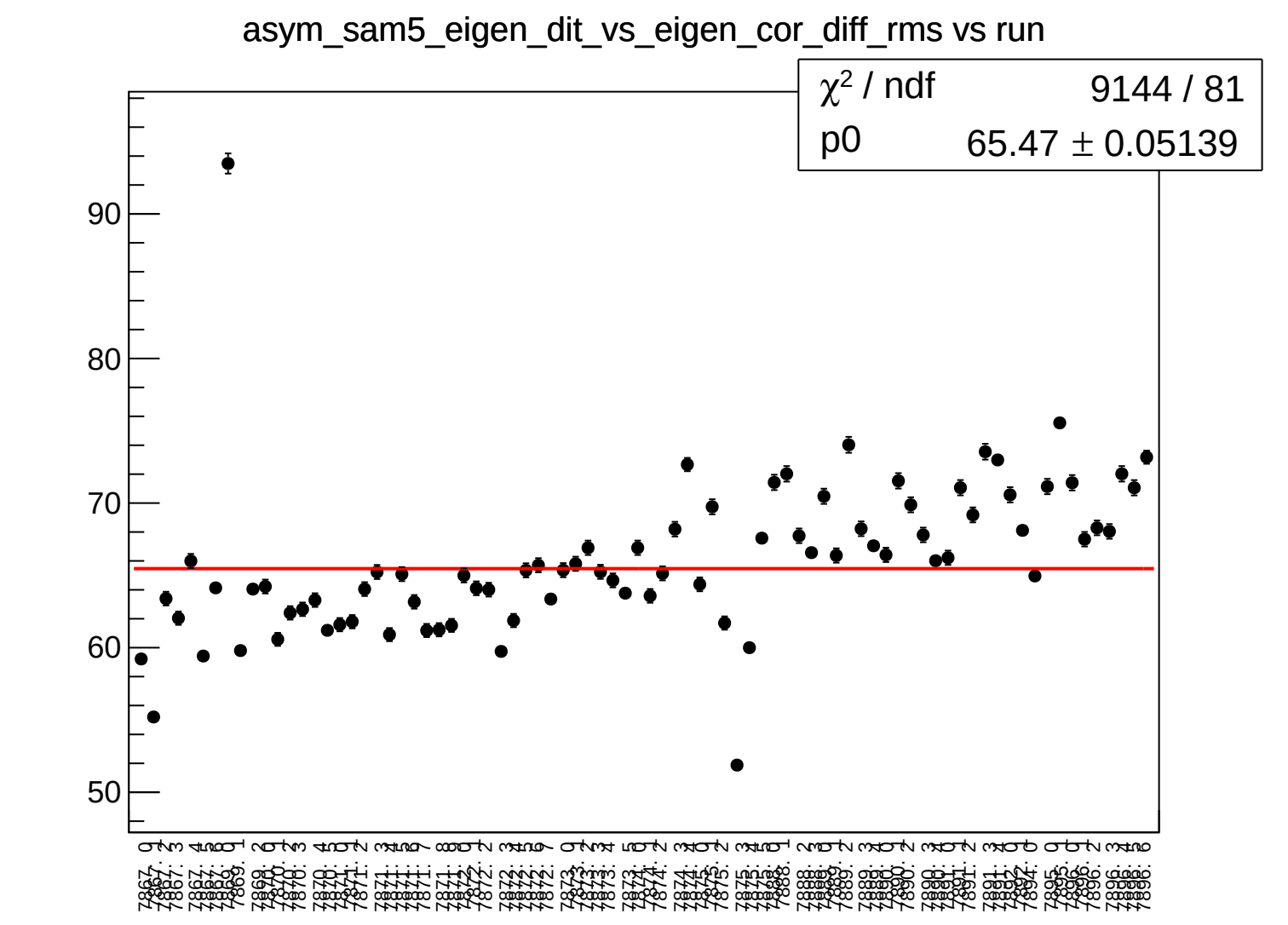

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 81
p0 0.2352 ± 0.07267
pull
Entries 82
Mean 568.6
Std Dev 0

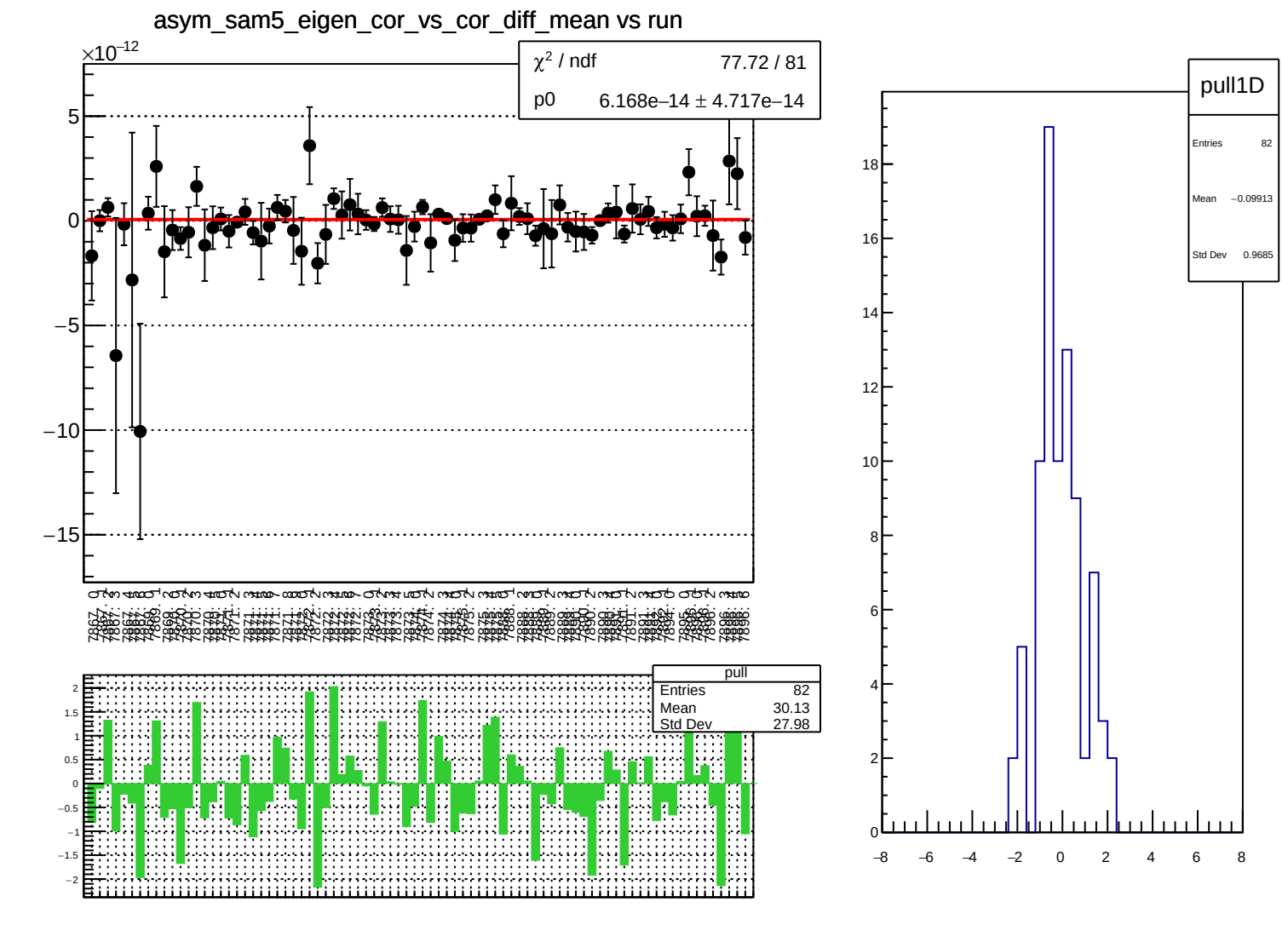

pull1D
Entries 82
Mean −0.002574
Std Dev 0.9873

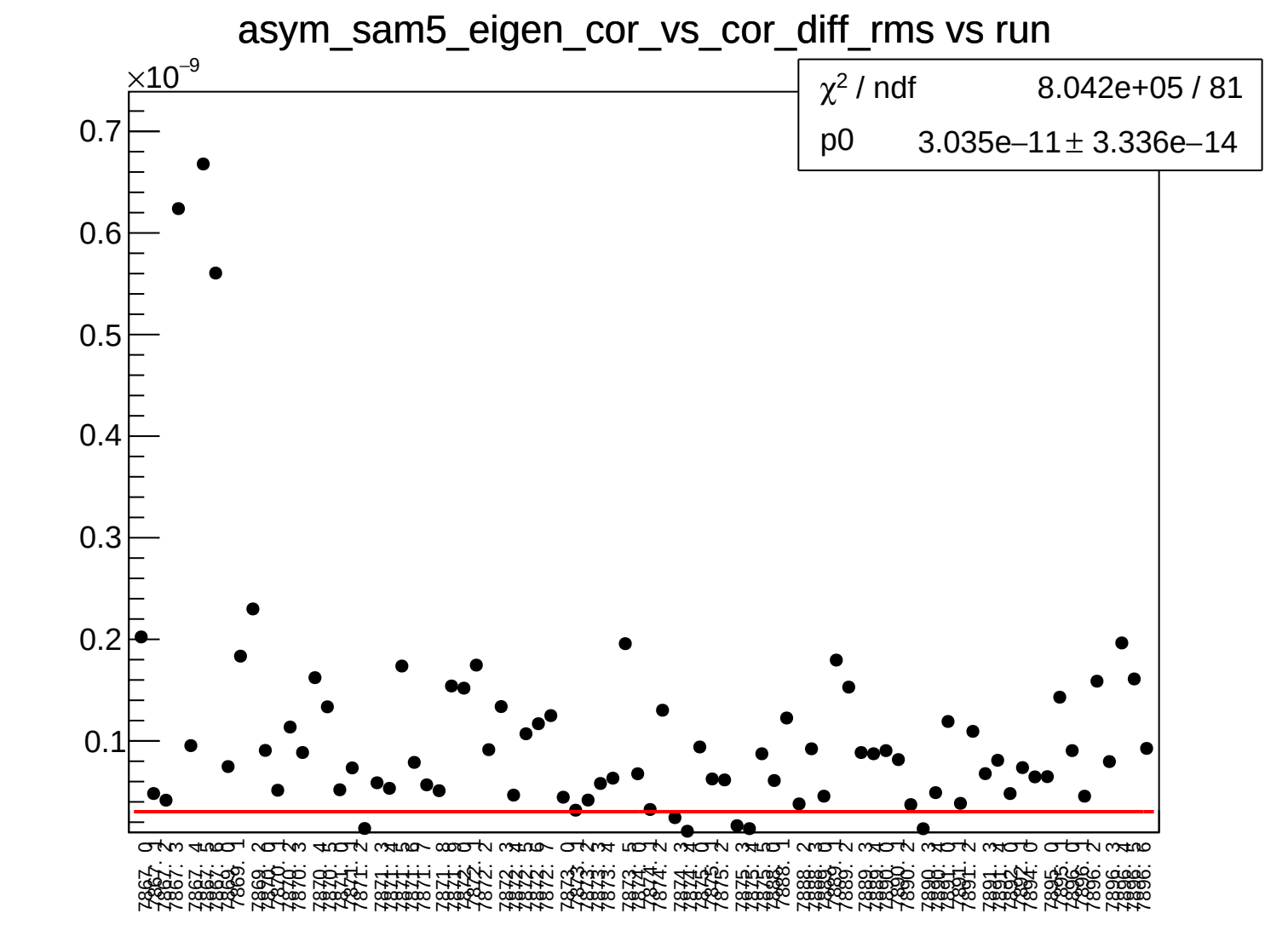

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9144 / 81
p0 65.47 ± 0.05139
90
80
70
60
50

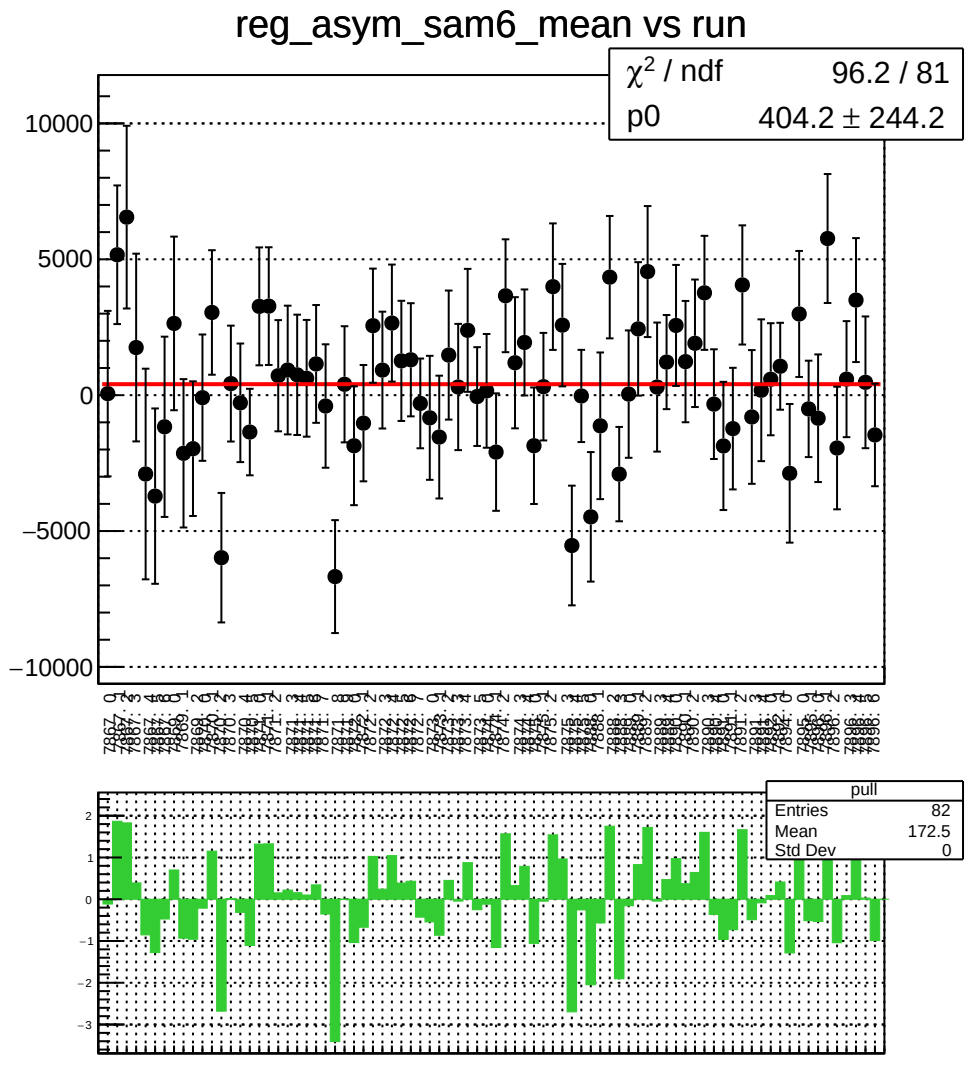

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 79.93 / 81
p0 0.2352 ± 0.07267
pull
Entries 82
Mean 568.6
Std Dev 0

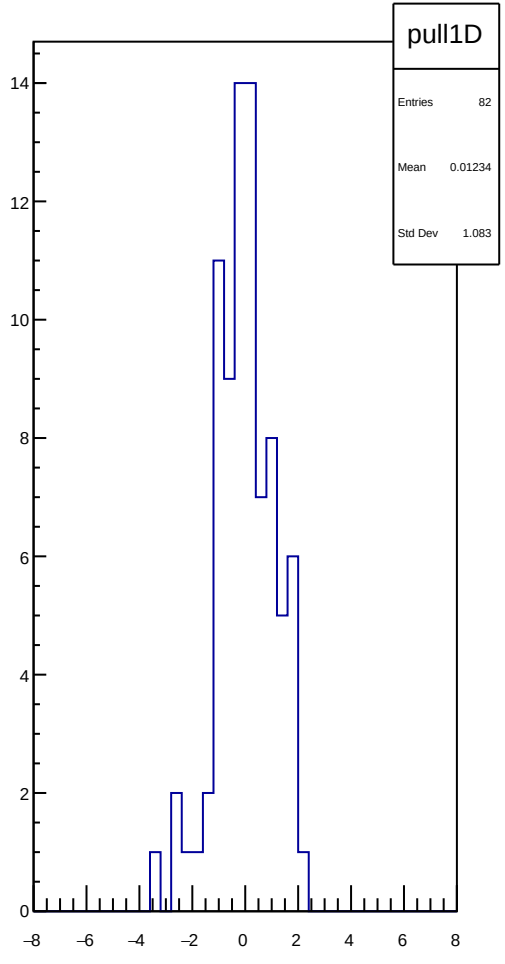

pull1D
Entries 82
Mean −0.002574
Std Dev 0.9873

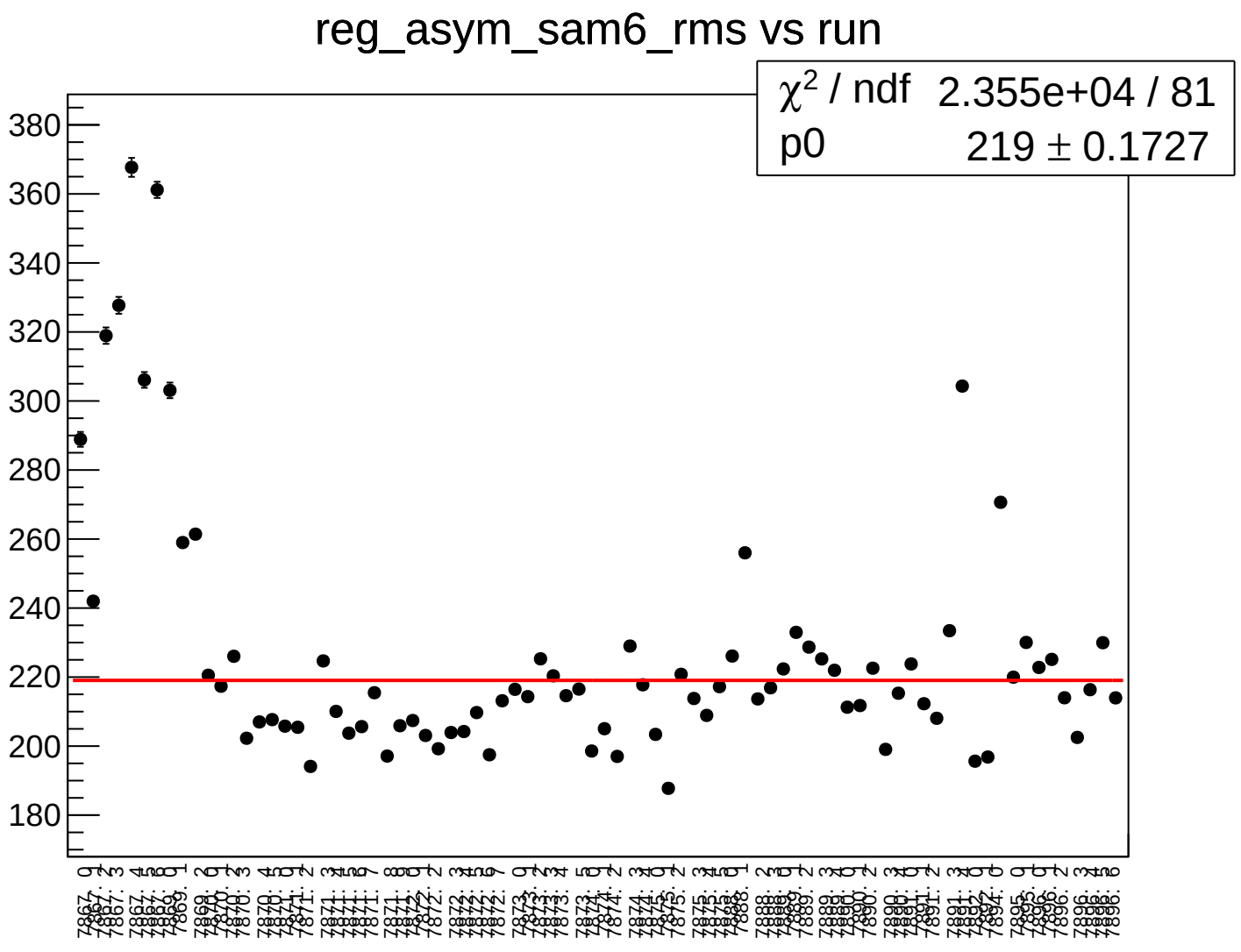

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9144 / 81
p0 65.47 ± 0.05139
90
80
70
60
50

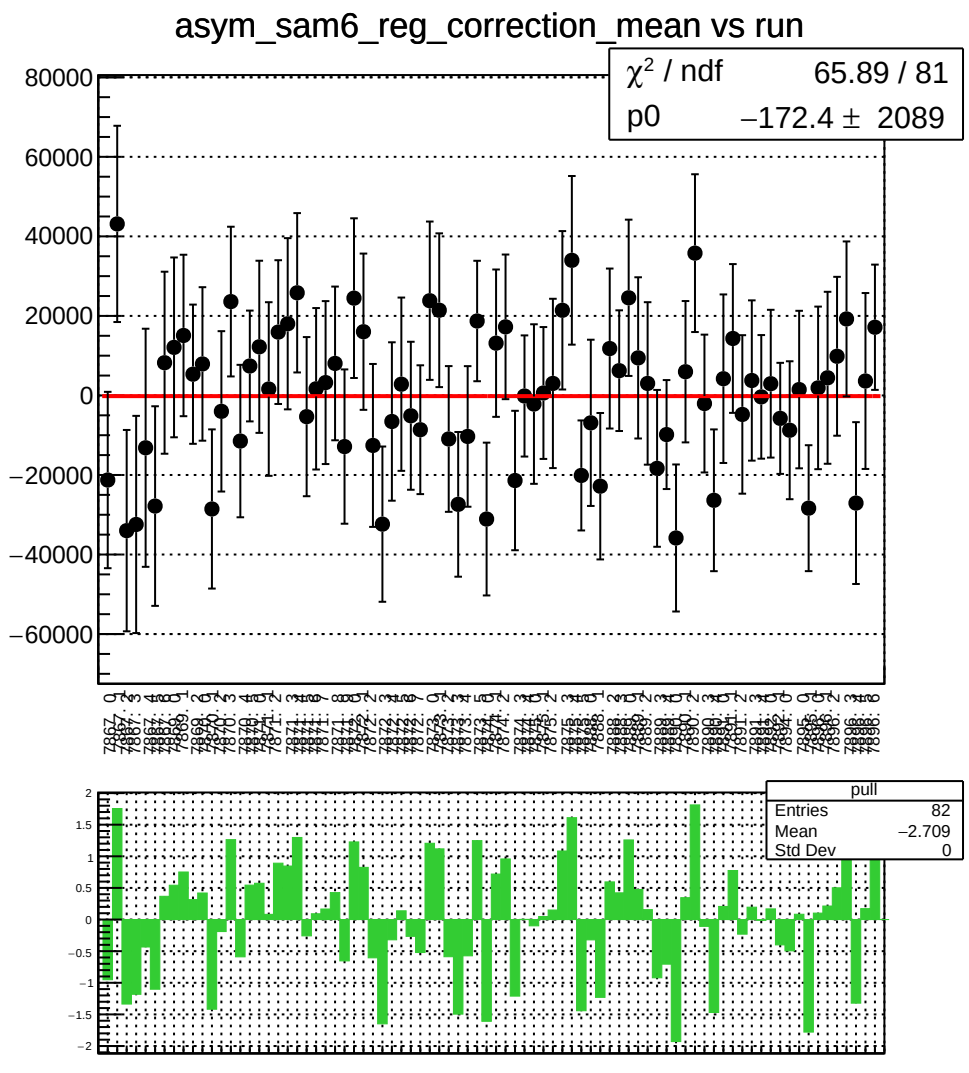

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.72 / 81
p0 6.168e−14 ± 4.717e−14
pull
Entries 82
Mean 30.13
Std Dev 27.98
pull1D
Entries 82
Mean −0.09913
Std Dev 0.9685

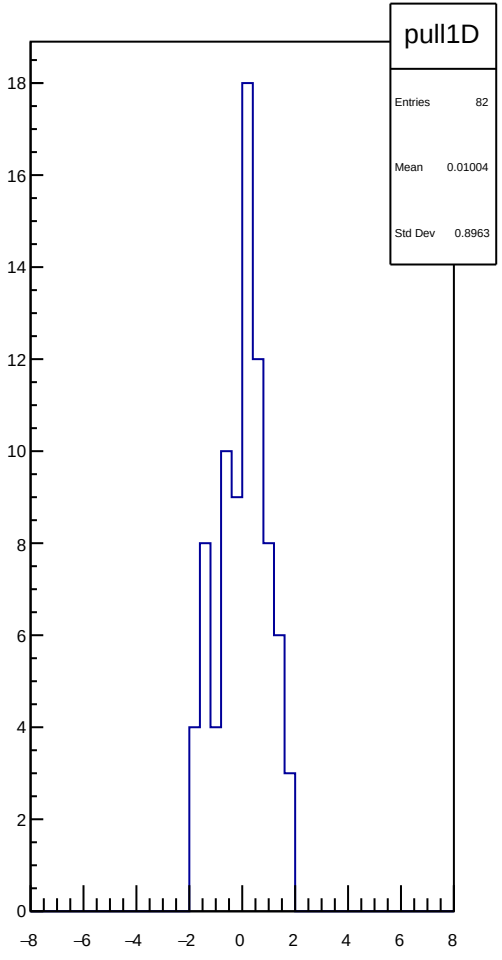

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.042e+05 / 81
p0 3.035e−11 ± 3.336e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

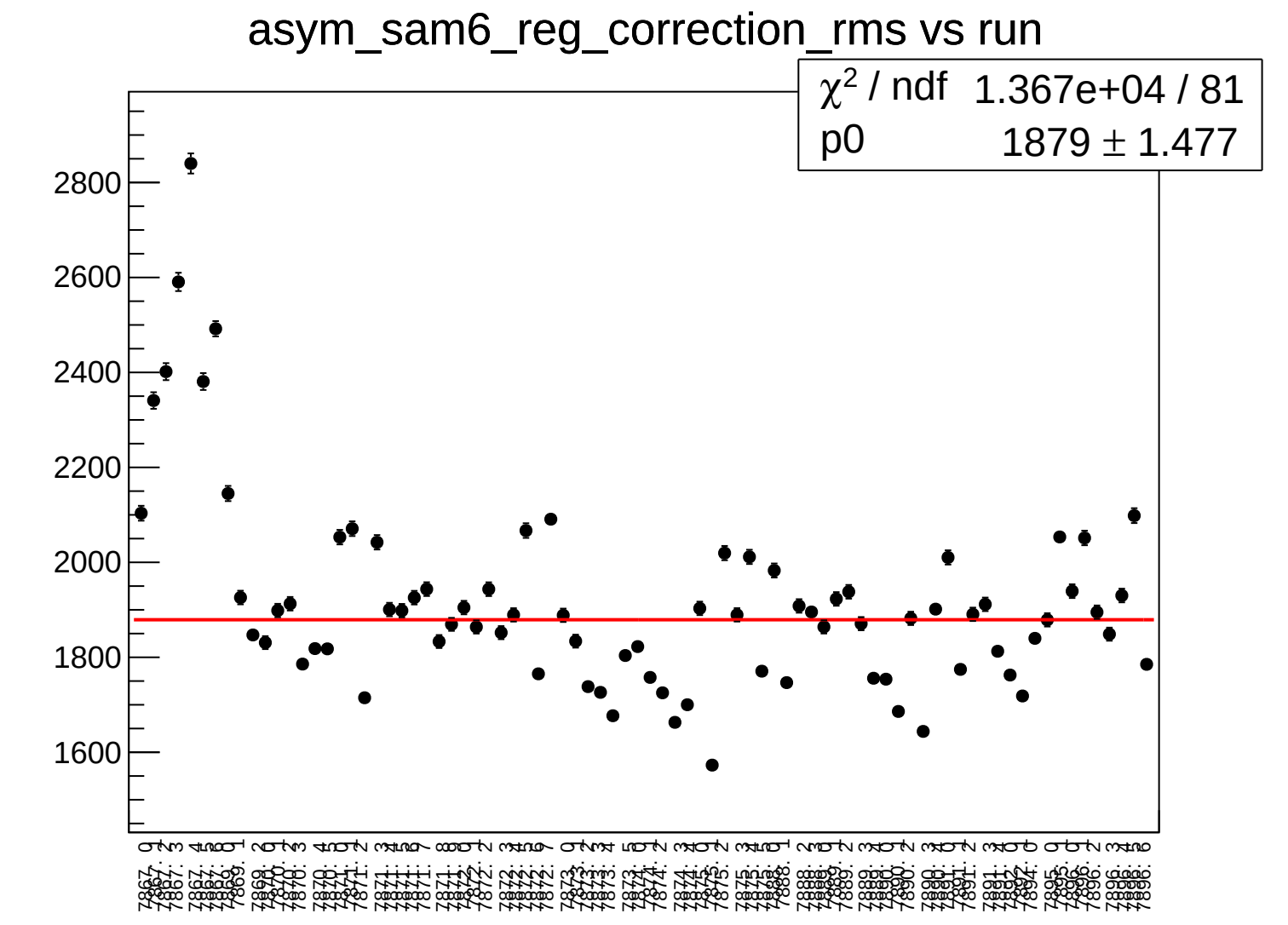

reg_asym_sam6_mean vs run
χ^2 / ndf 96.2 / 81
p0 404.2 ± 244.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 172.5
Std Dev 0
2
1
0
−1
−2
−3

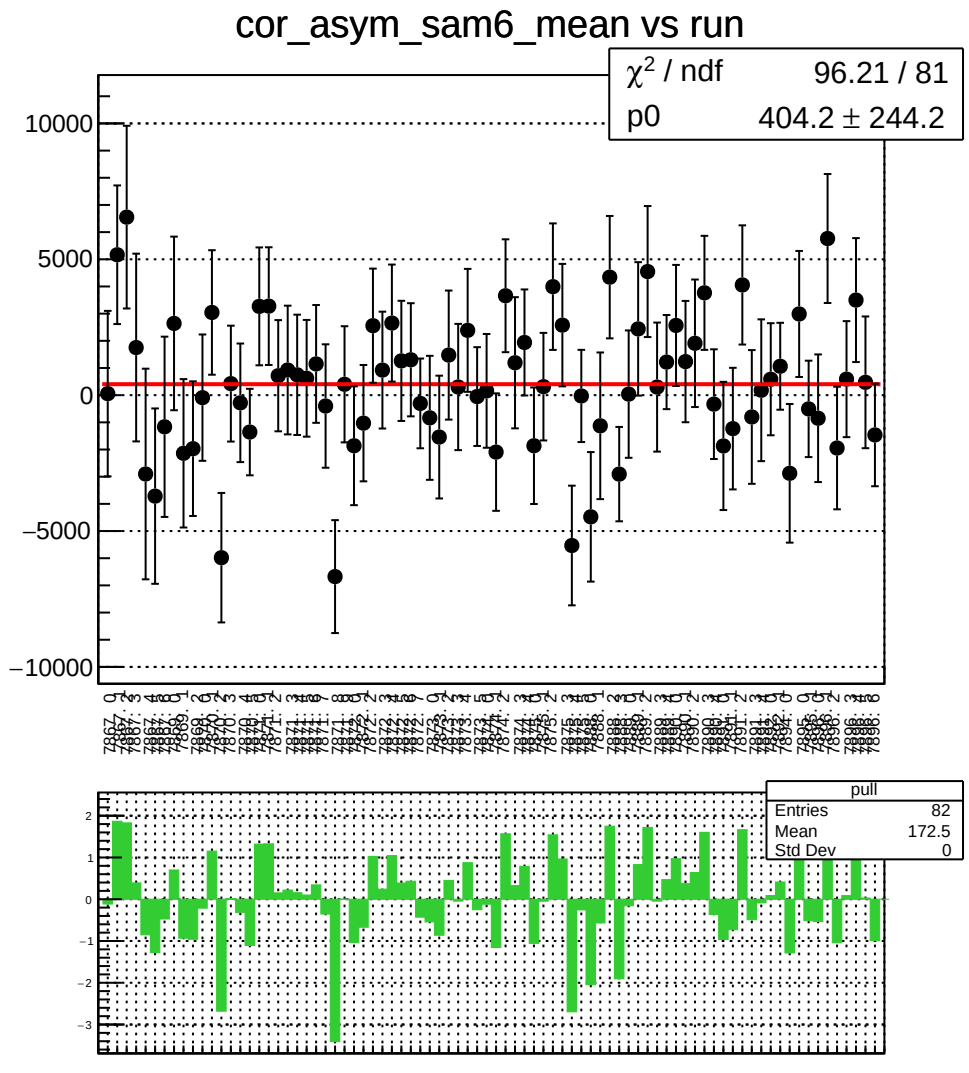

pull1D
Entries 82
Mean 0.01234
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

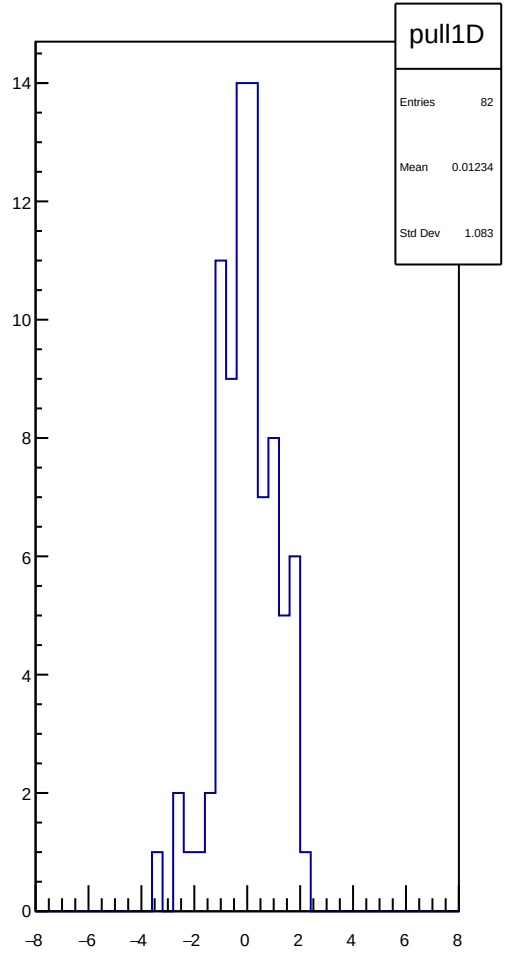

reg_asym_sam6_rms vs run
χ² / ndf 2.355e+04 / 81
p0 219 ± 0.1727
380
360
340
320
300
280
260
240
220
200
180

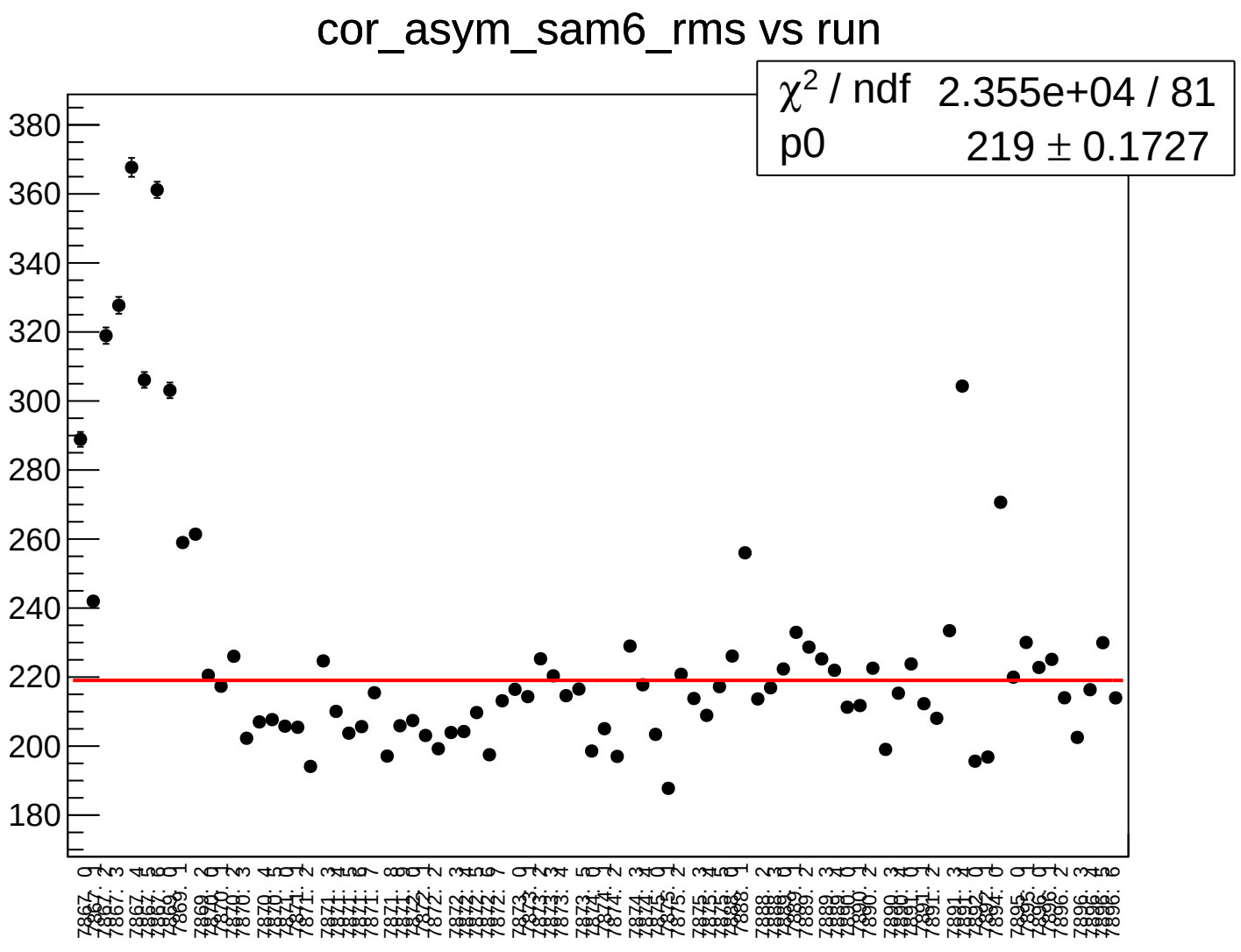

asym_sam6_reg_correction_mean vs run
χ² / ndf 65.89 / 81
p0 −172.4 ± 2089
pull
Entries 82
Mean −2.709
Std Dev 0

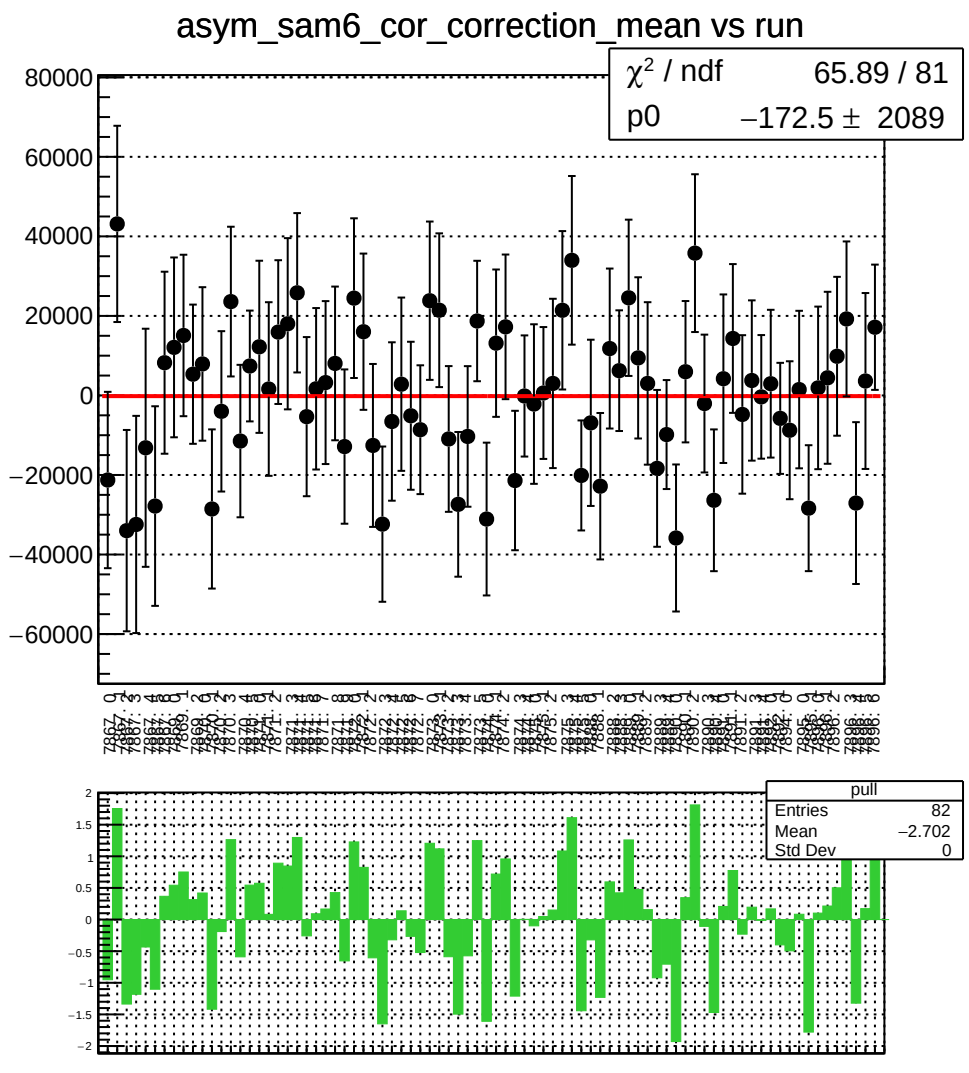

pull1D
Entries 82
Mean 0.01004
Std Dev 0.8963

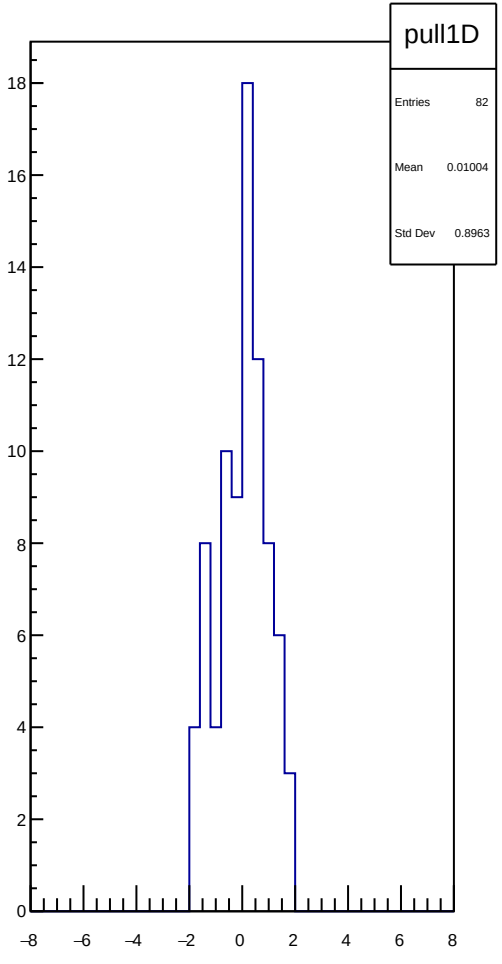

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.367e+04 / 81
p0 1879 ± 1.477
2800
2600
2400
2200
2000
1800
1600

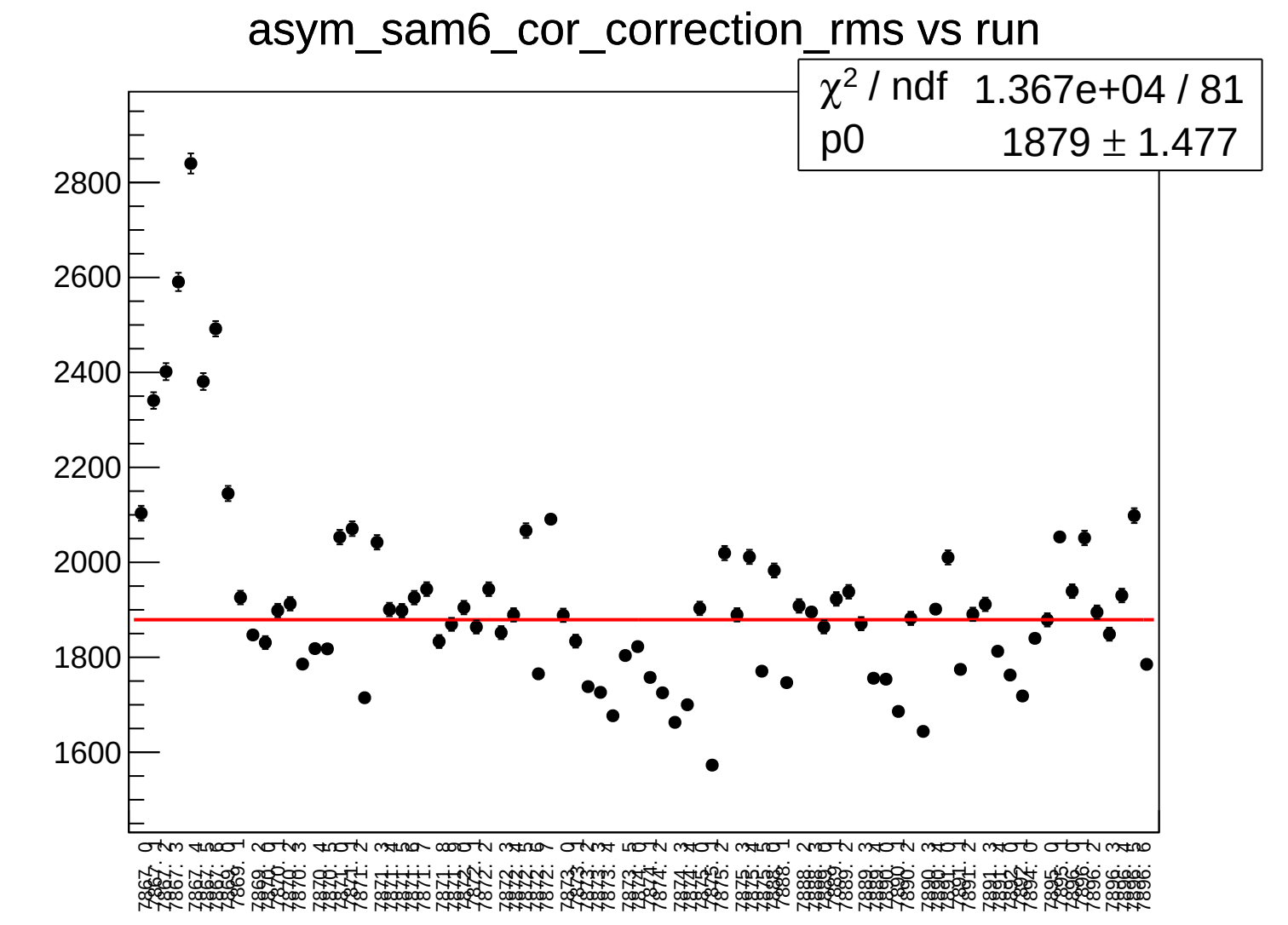

cor_asym_sam6_mean vs run
χ^2 / ndf 96.21 / 81
p0 404.2 ± 244.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 172.5
Std Dev 0
2
1
0
−1
−2
−3

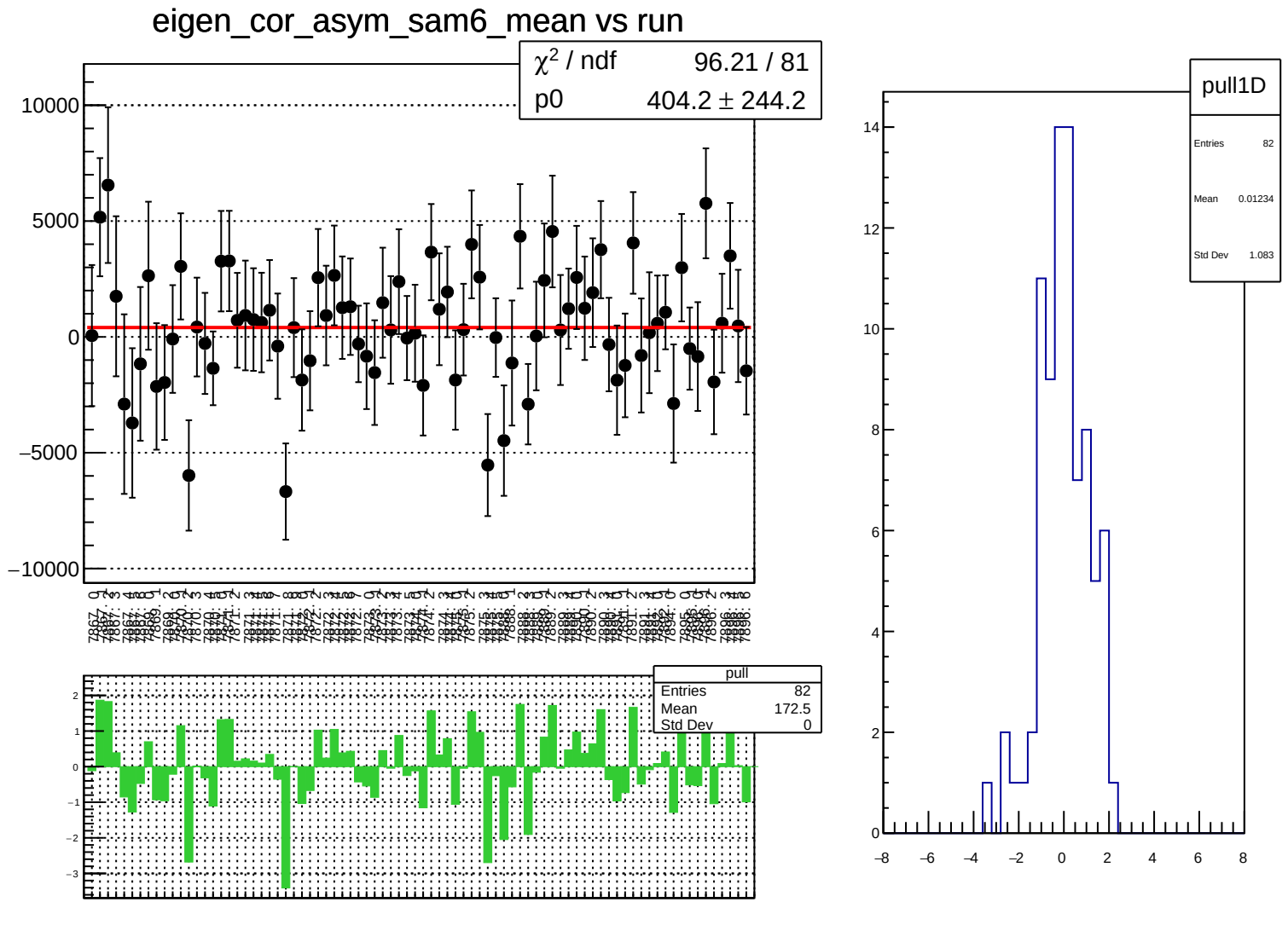

pull1D
Entries 82
Mean 0.01234
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

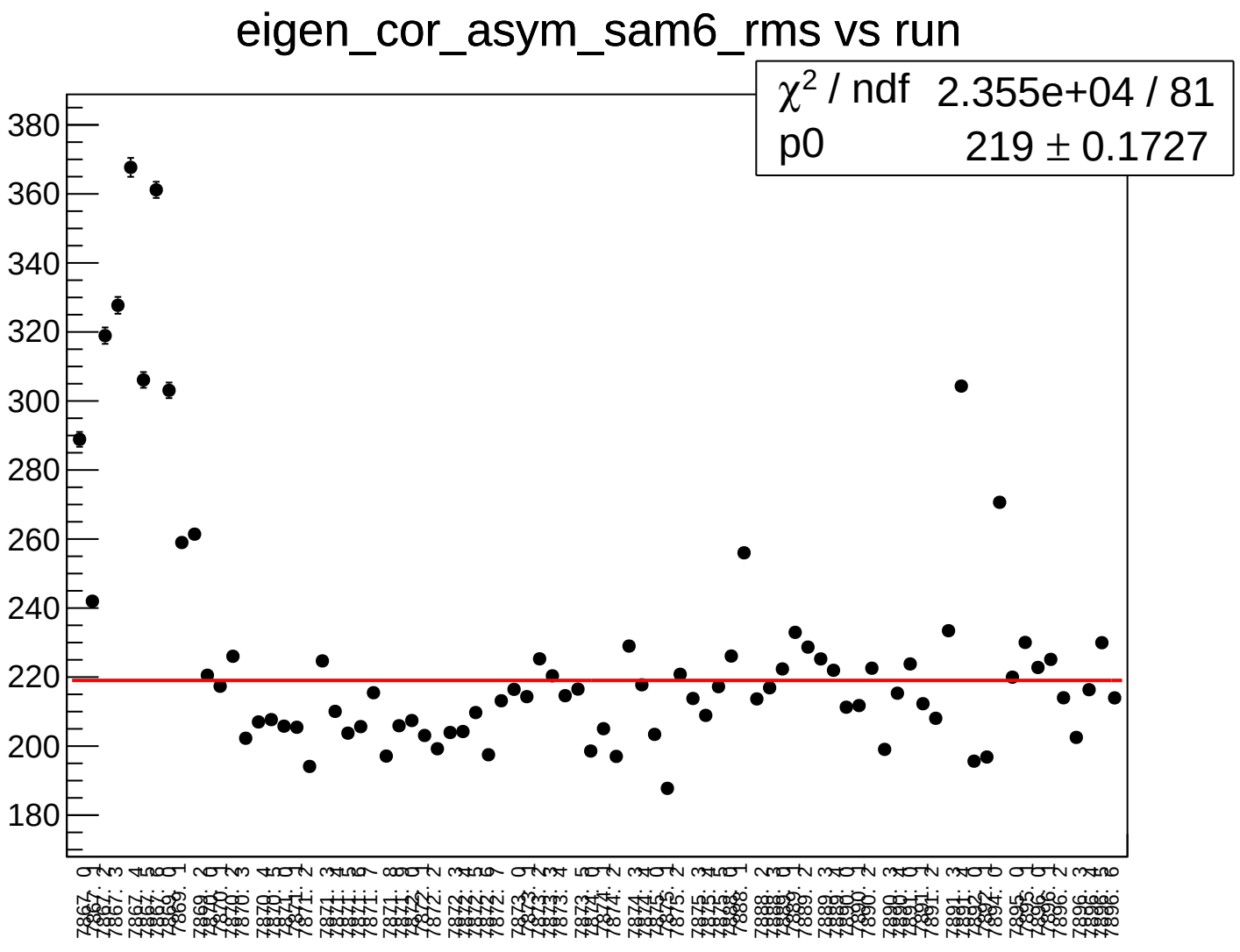

cor_asym_sam6_rms vs run
χ² / ndf 2.355e+04 / 81
p0 219 ± 0.1727
380
360
340
320
300
280
260
240
220
200
180

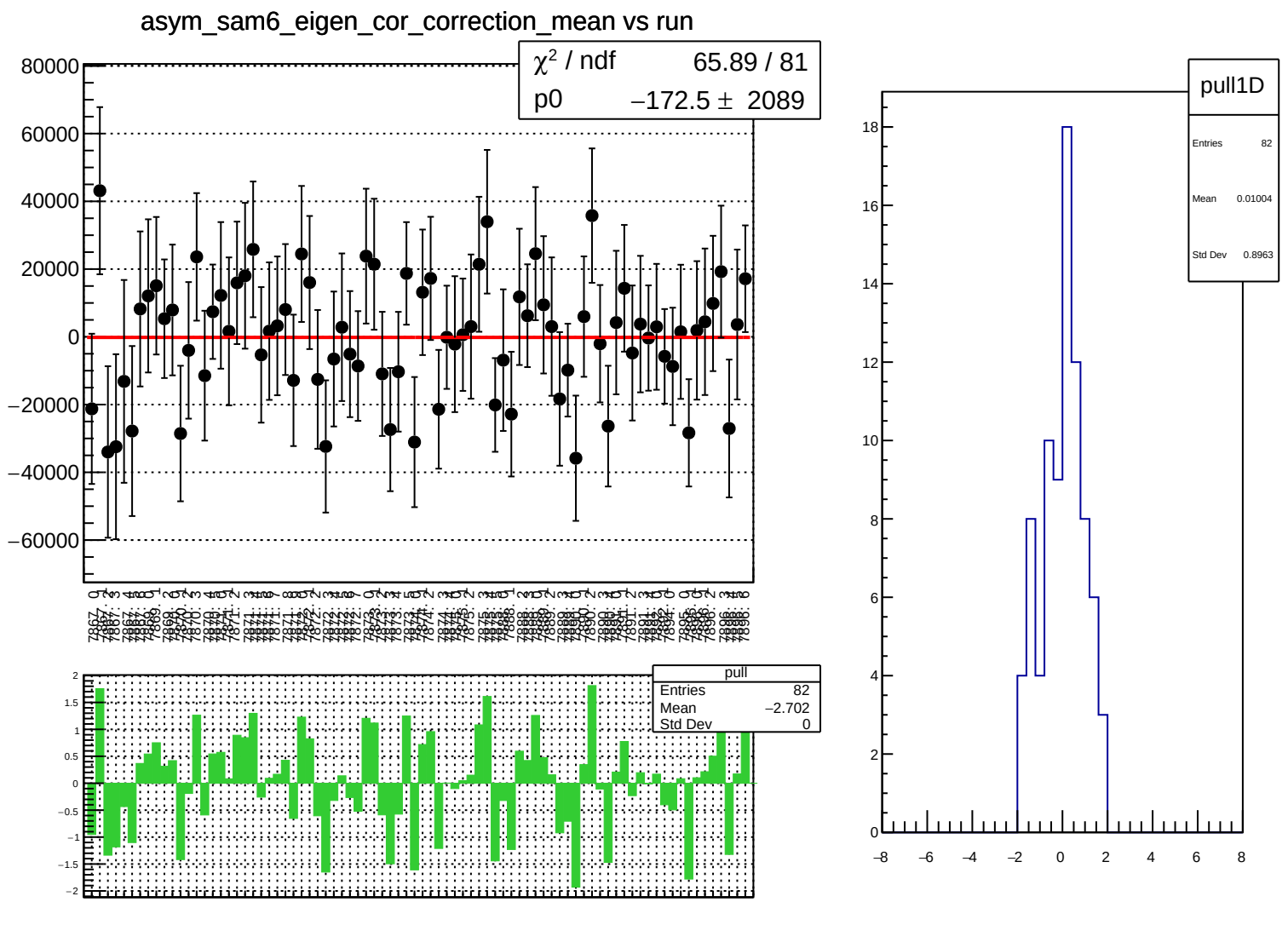

asym_sam6_cor_correction_mean vs run
χ² / ndf 65.89 / 81
p0 −172.5 ± 2089
pull
Entries 82
Mean −2.702
Std Dev 0

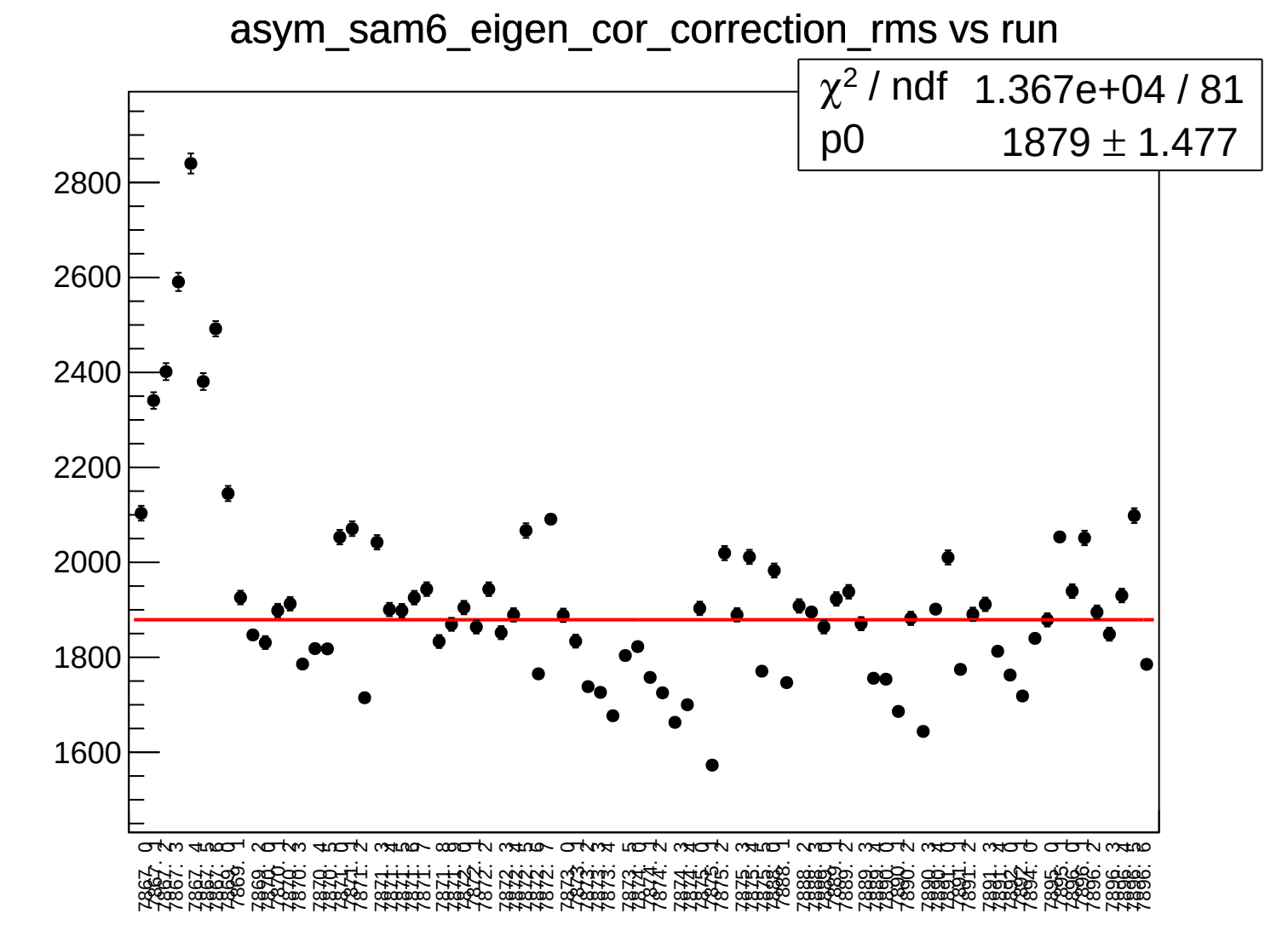

pull1D
Entries 82
Mean 0.01004
Std Dev 0.8963

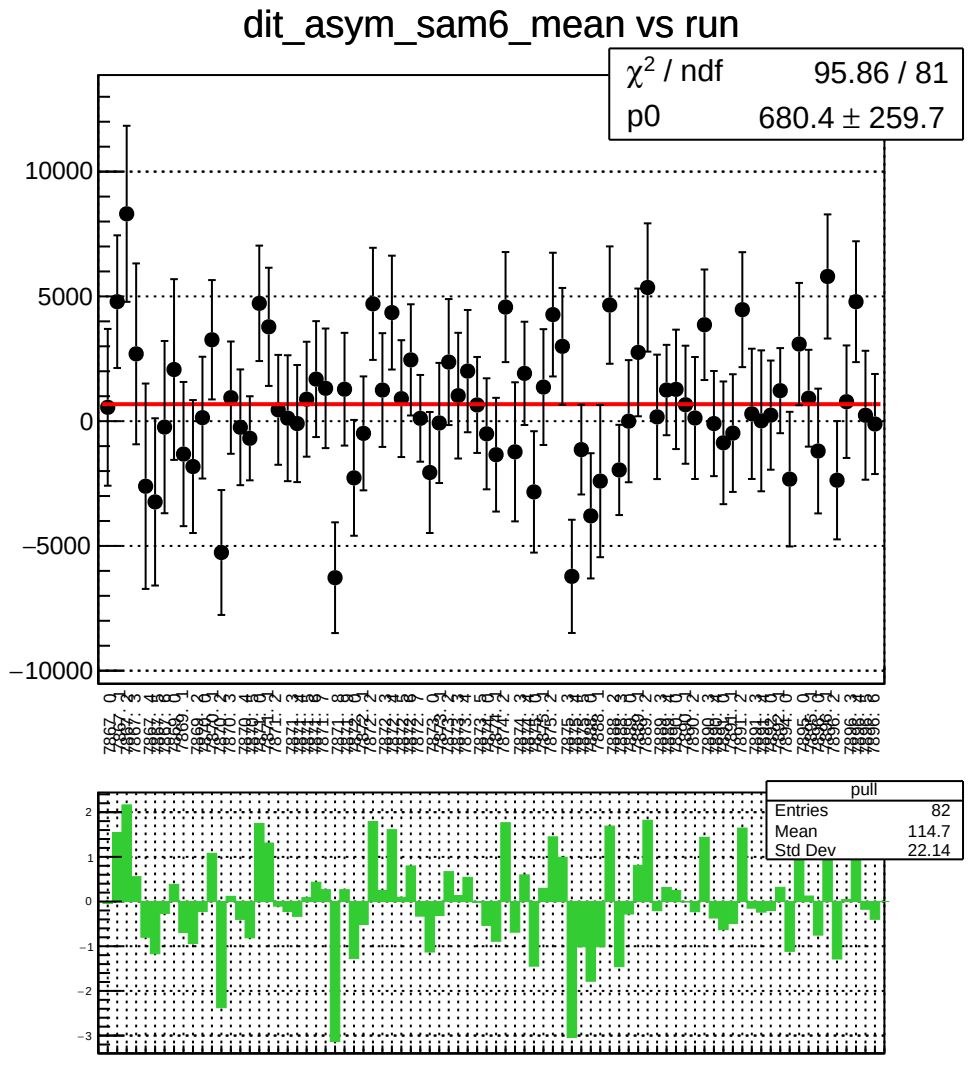

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 81
p0 1879 ± 1.477
2800
2600
2400
2200
2000
1800
1600

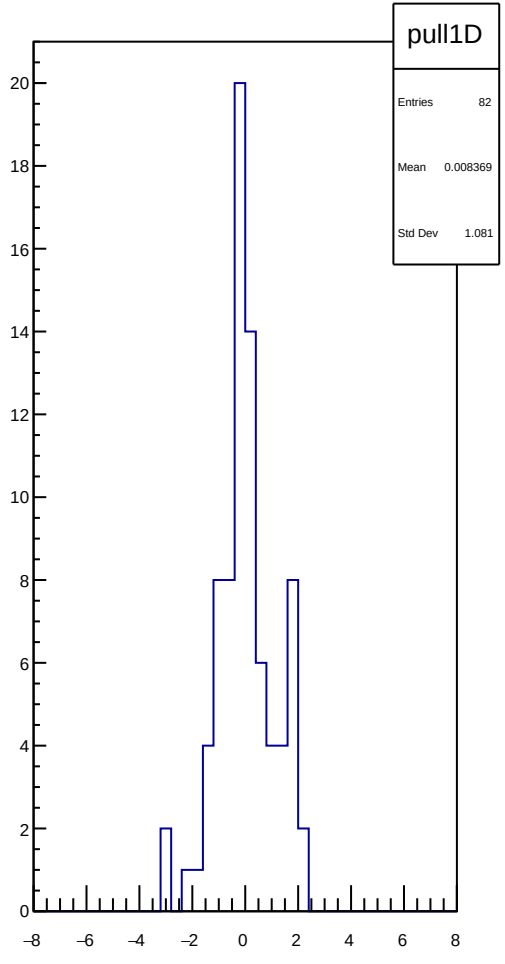

eigen_cor_asym_sam6_mean vs run
χ² / ndf 96.21 / 81
p0 404.2 ± 244.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 172.5
Std Dev 0
pull1D
Entries 82
Mean 0.01234
Std Dev 1.083

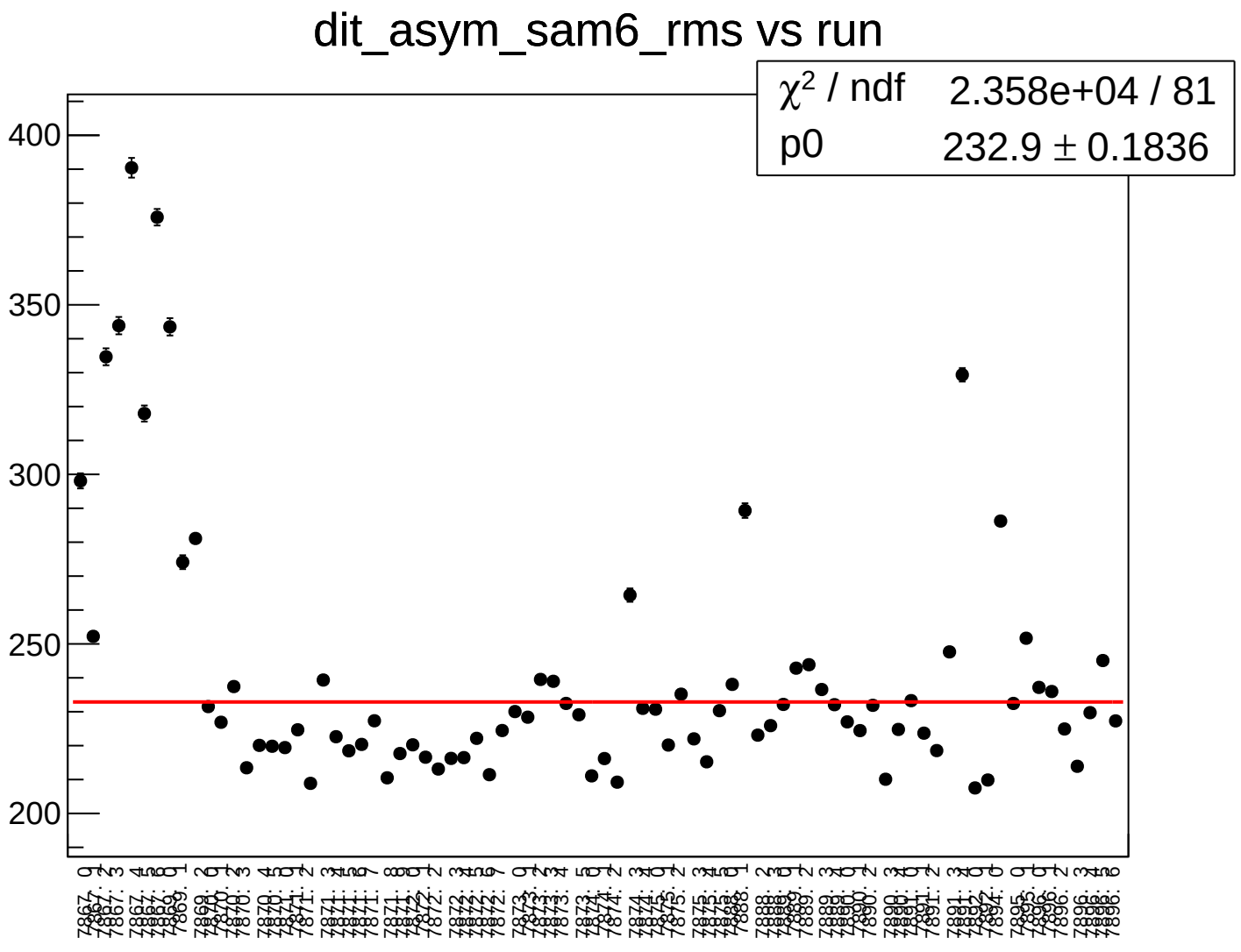

eigen_cor_asym_sam6_rms vs run
χ² / ndf 2.355e+04 / 81
p0 219 ± 0.1727
380
360
340
320
300
280
260
240
220
200
180

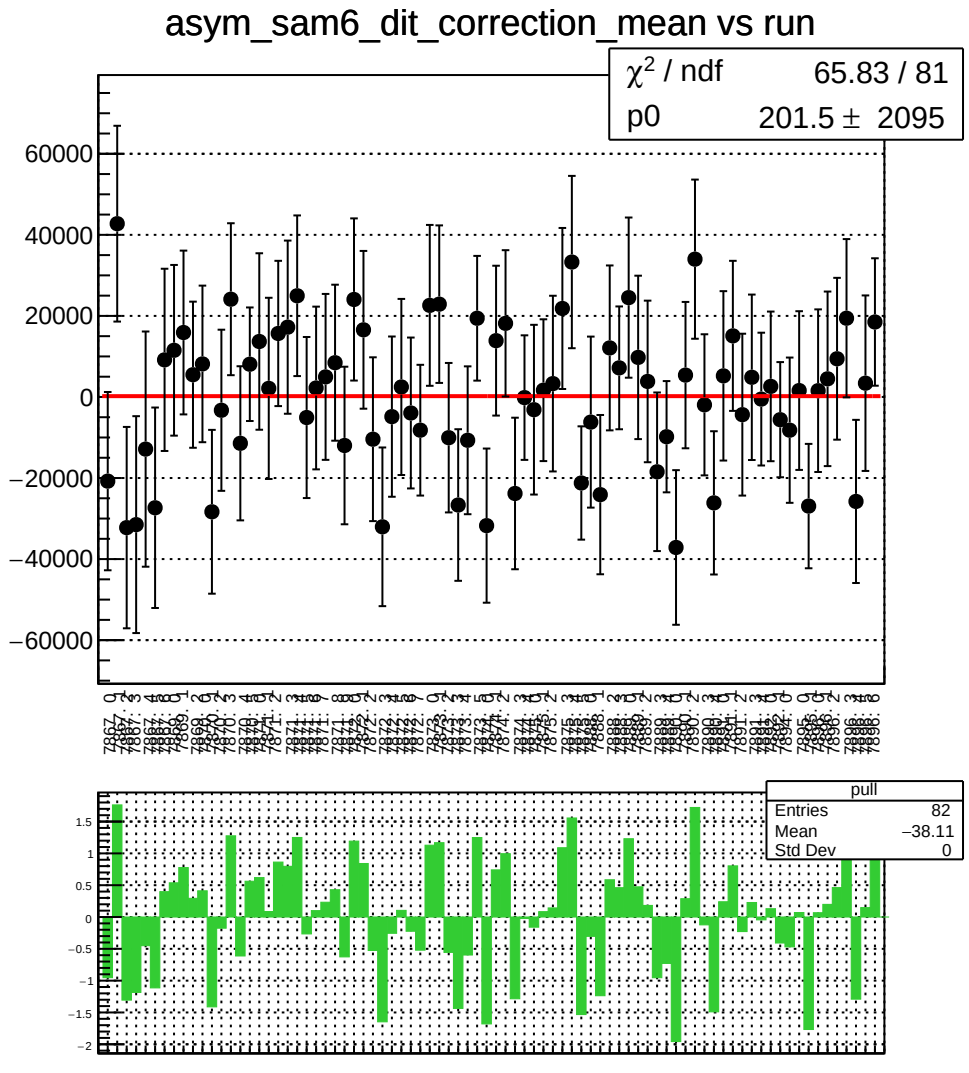

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 65.89 / 81
p0 −172.5 ± 2089
pull
Entries 82
Mean −2.702
Std Dev 0
pull1D
Entries 82
Mean 0.01004
Std Dev 0.8963

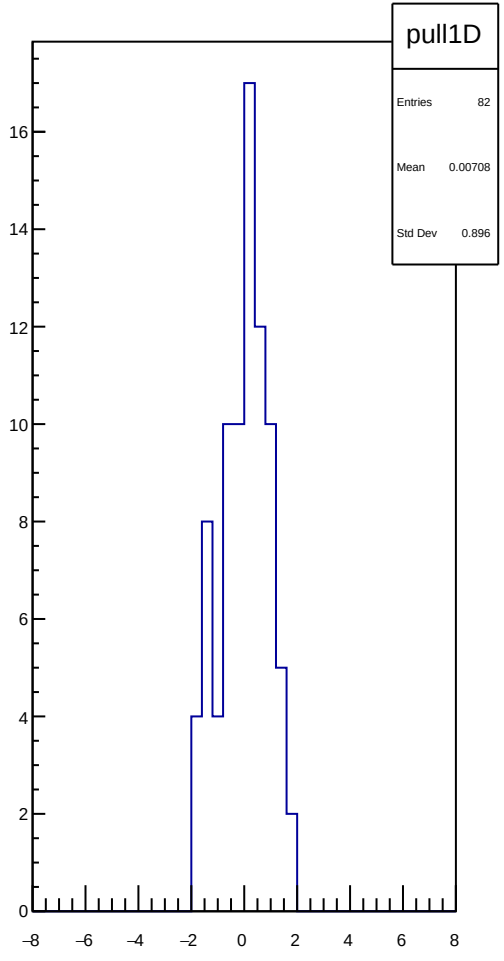

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 1.367e+04 / 81
p0 1879 ± 1.477
2800
2600
2400
2200
2000
1800
1600

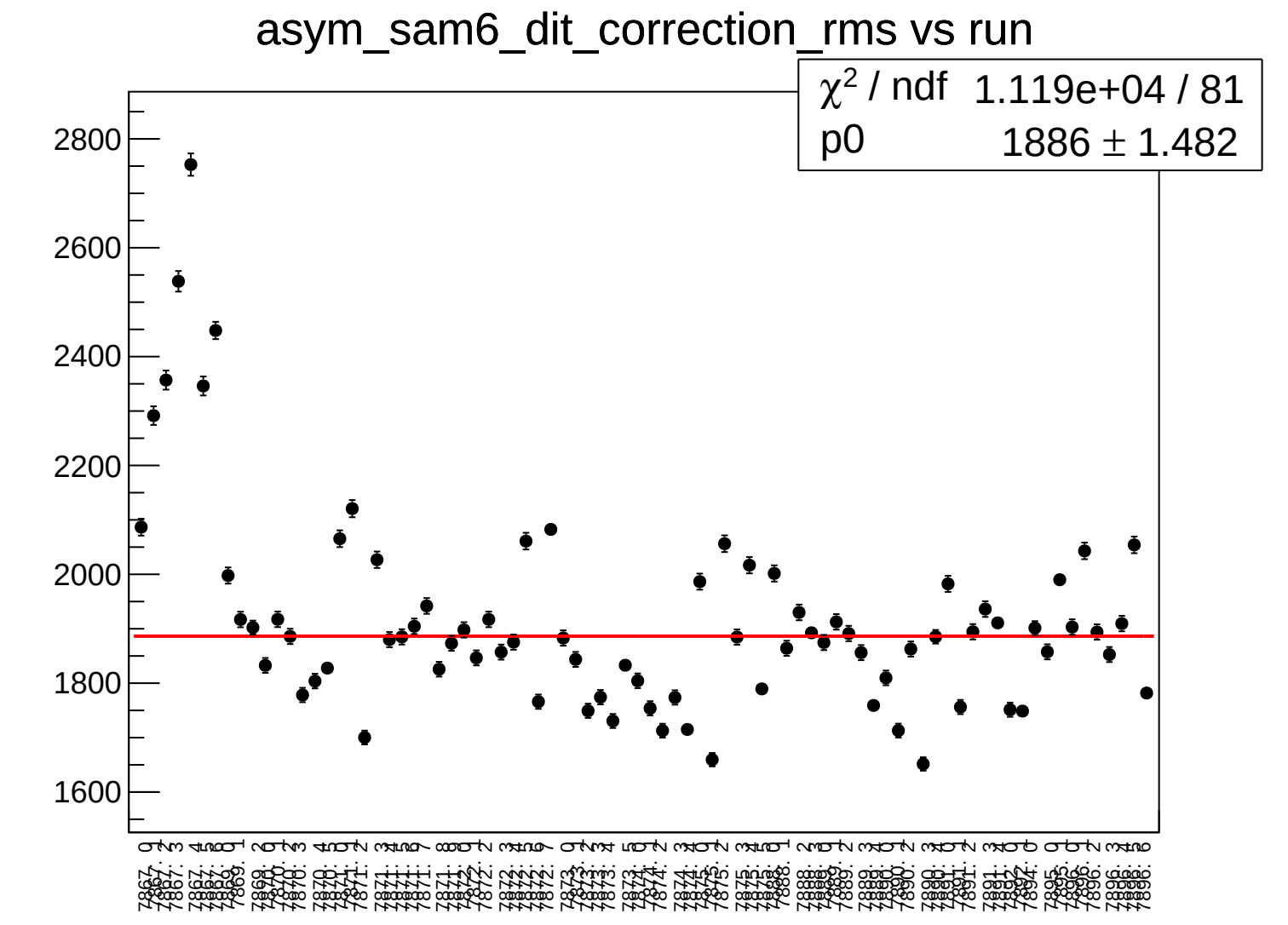

dit_asym_sam6_mean vs run
χ^2 / ndf 95.86 / 81
p0 680.4 ± 259.7
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 114.7
Std Dev 22.14
2
1
0
−1
−2
−3

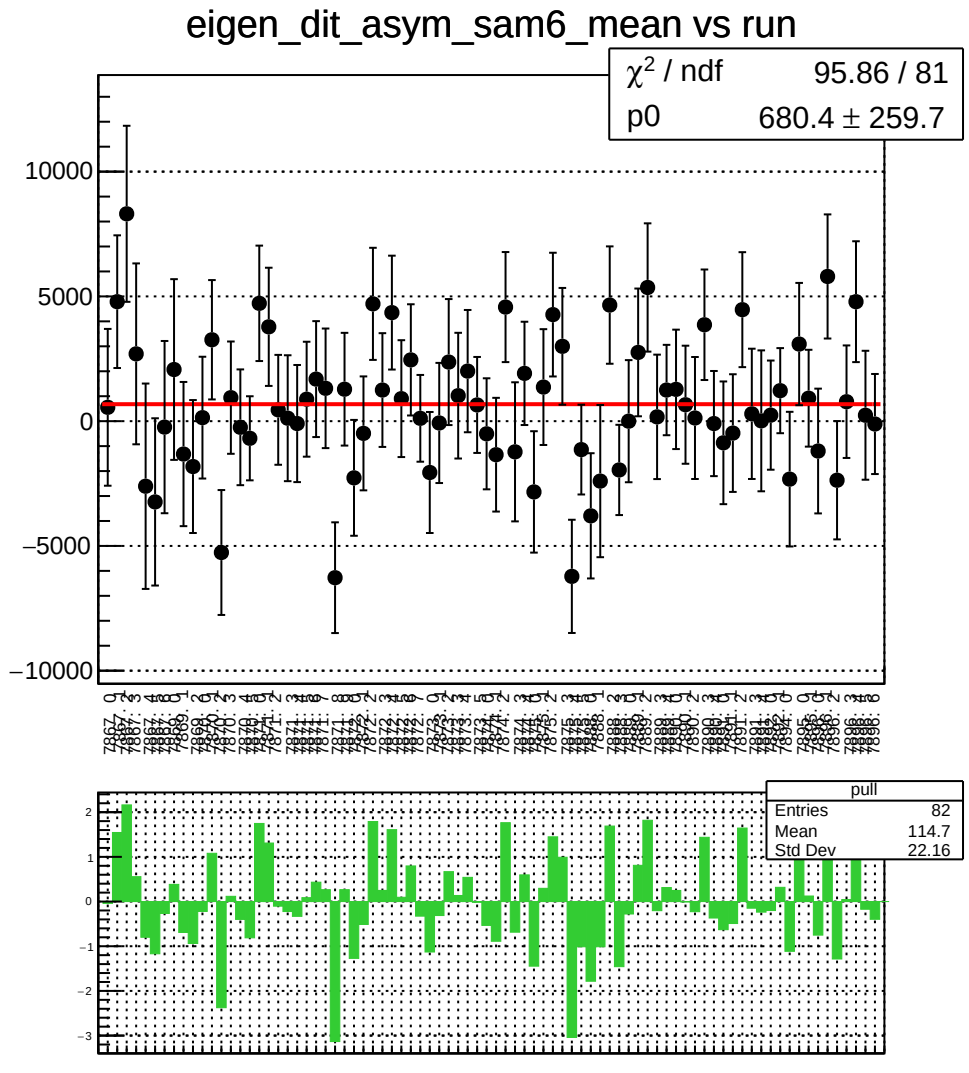

pull1D
Entries 82
Mean 0.008369
Std Dev 1.081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

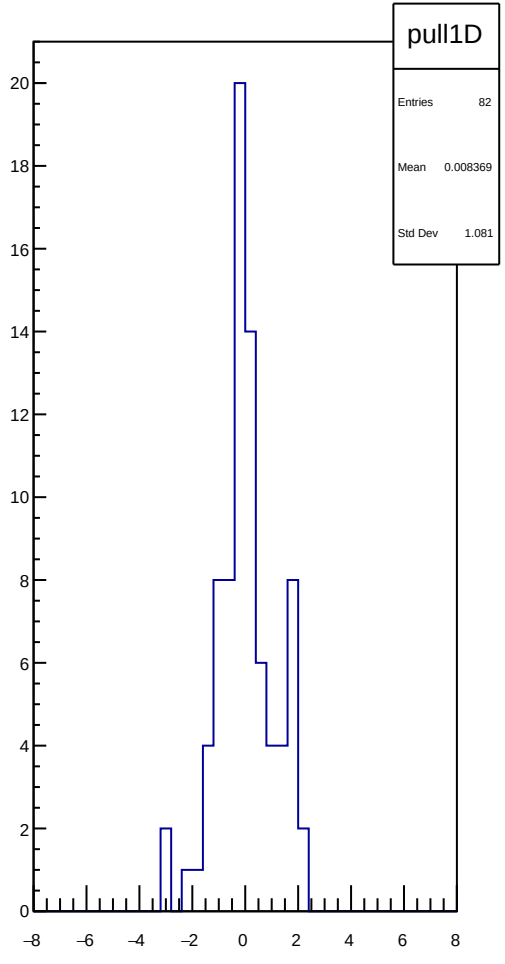

dit_asym_sam6_rms vs run
χ² / ndf 2.358e+04 / 81
p0 232.9 ± 0.1836
400
350
300
250
200

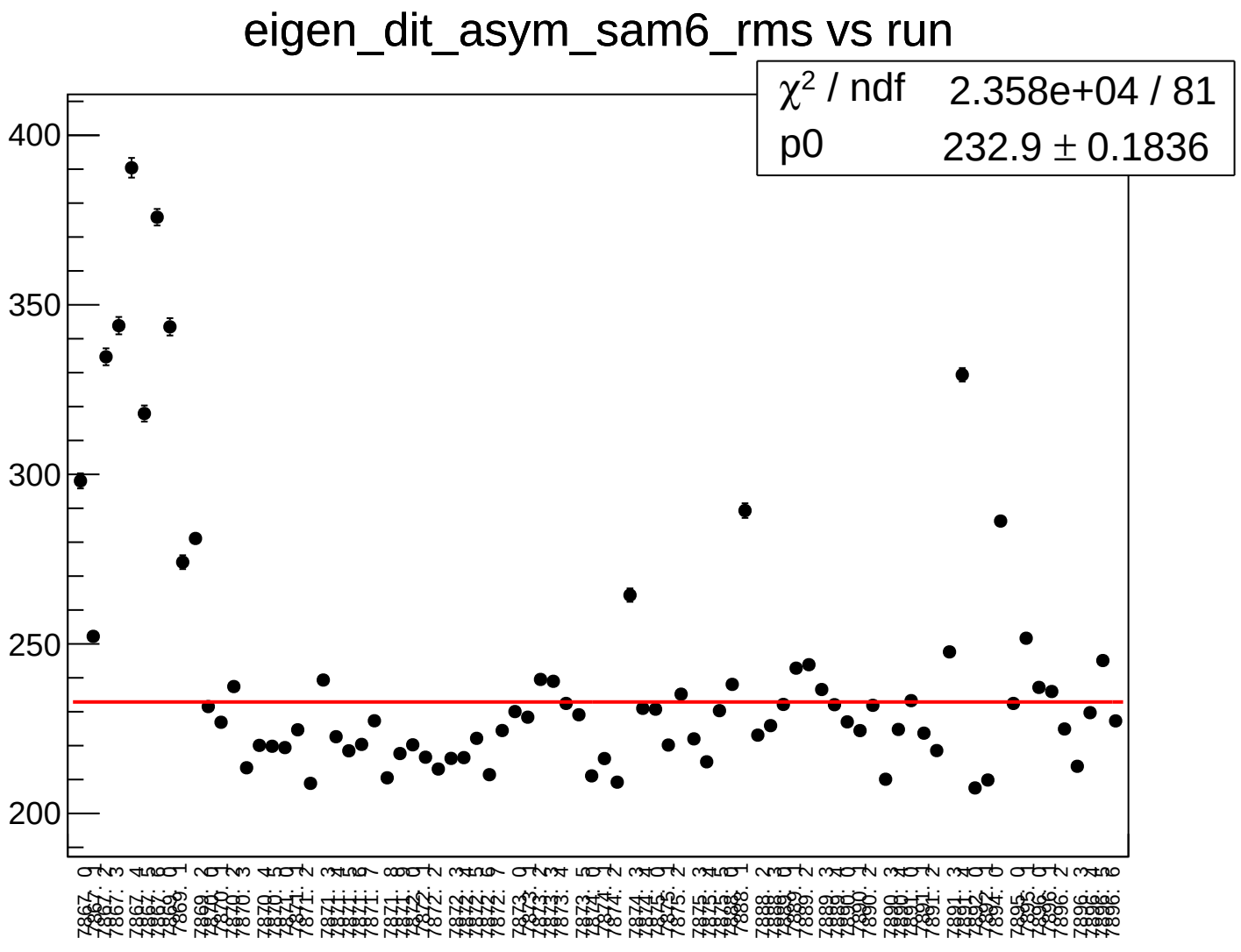

asym_sam6_dit_correction_mean vs run
χ² / ndf 65.83 / 81
p0 201.5 ± 2095
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −38.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

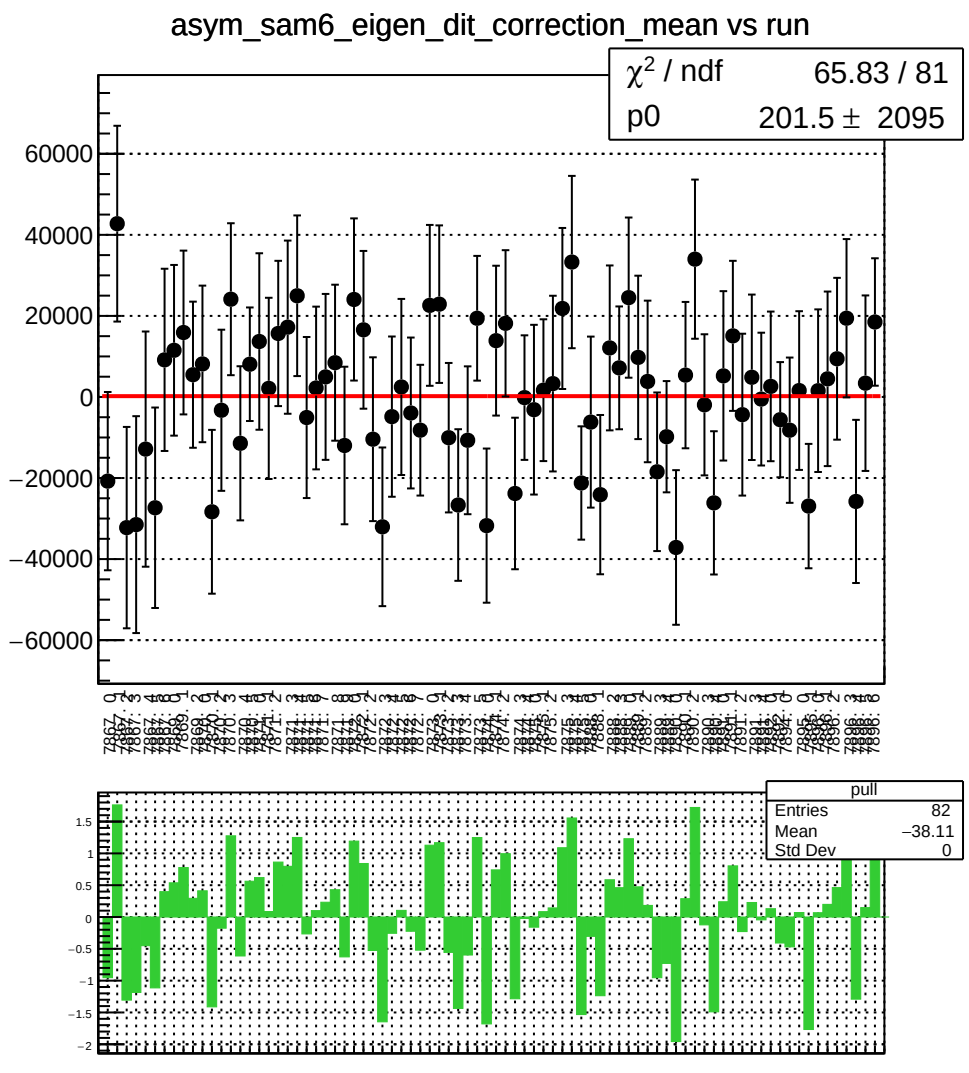

pull1D
Entries 82
Mean 0.00708
Std Dev 0.896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

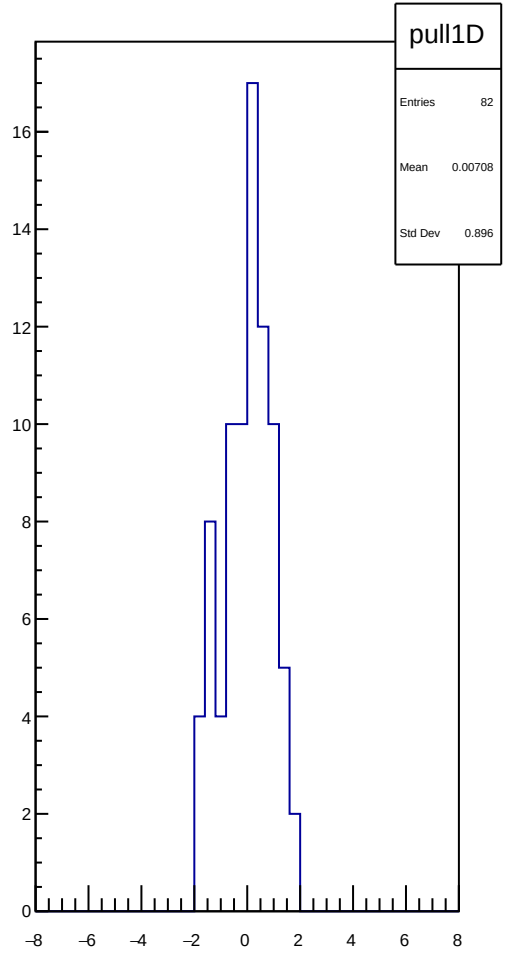

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.119e+04 / 81
p0 1886 ± 1.482
2800
2600
2400
2200
2000
1800
1600

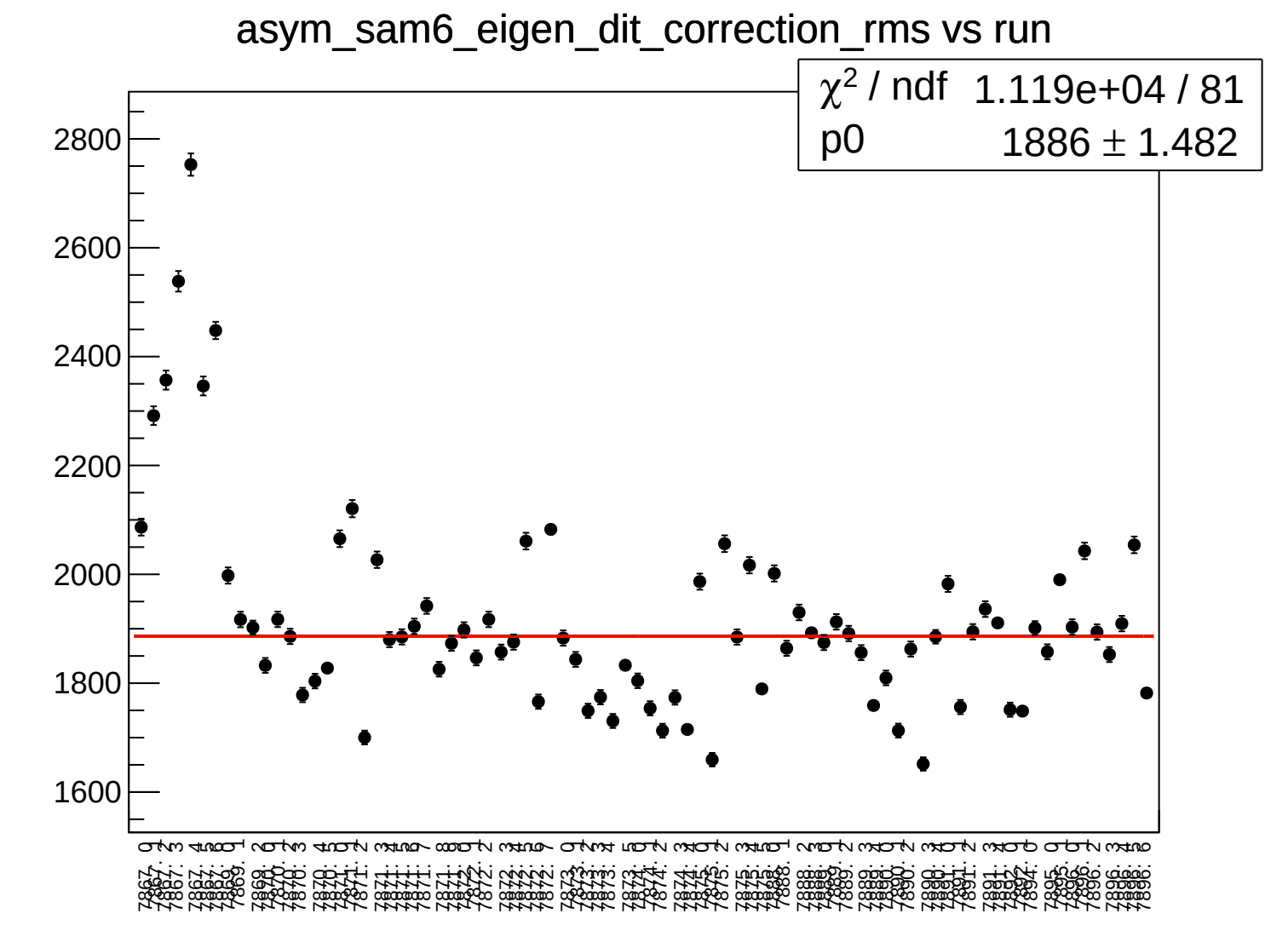

eigen_dit_asym_sam6_mean vs run
χ² / ndf 95.86 / 81
p0 680.4 ± 259.7
pull
Entries 82
Mean 114.7
Std Dev 22.16

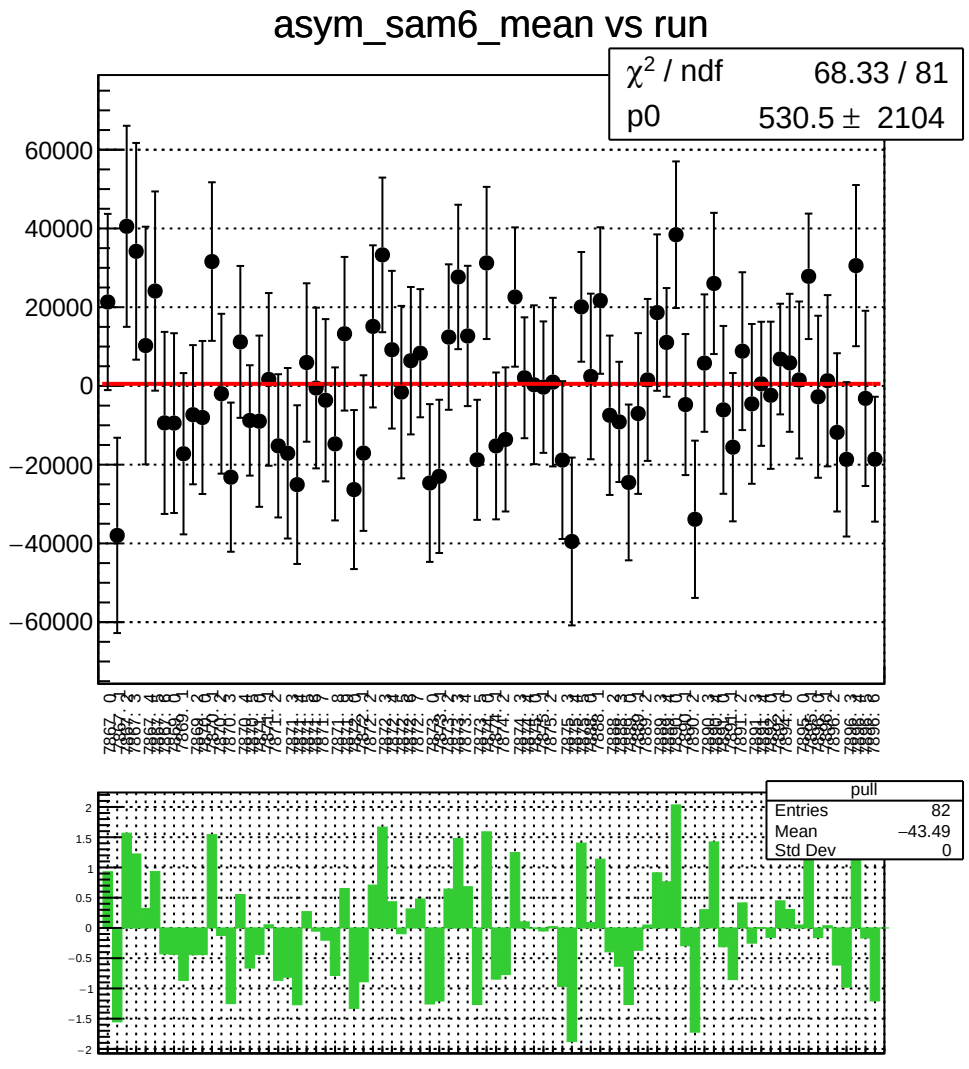

pull1D
Entries 82
Mean 0.008369
Std Dev 1.081

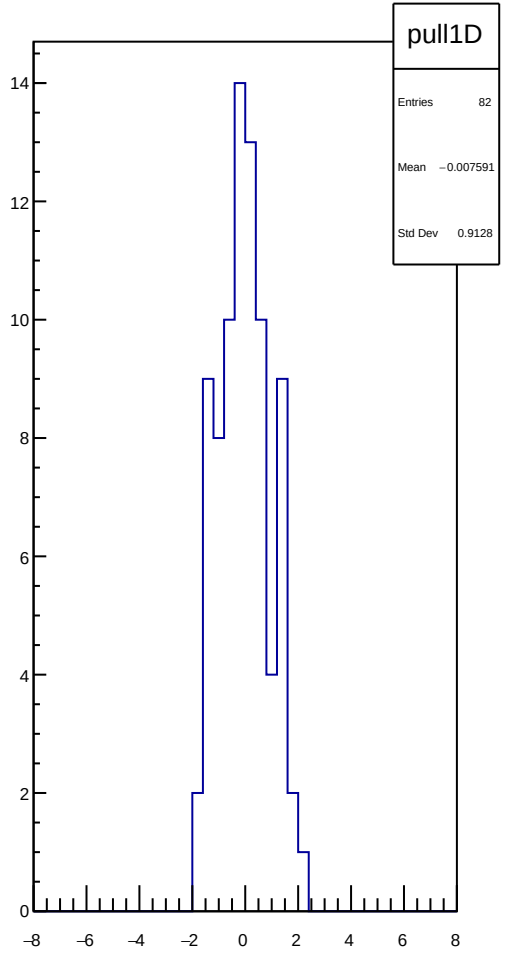

eigen_dit_asym_sam6_rms vs run
χ² / ndf 2.358e+04 / 81
p0 232.9 ± 0.1836
400
350
300
250
200

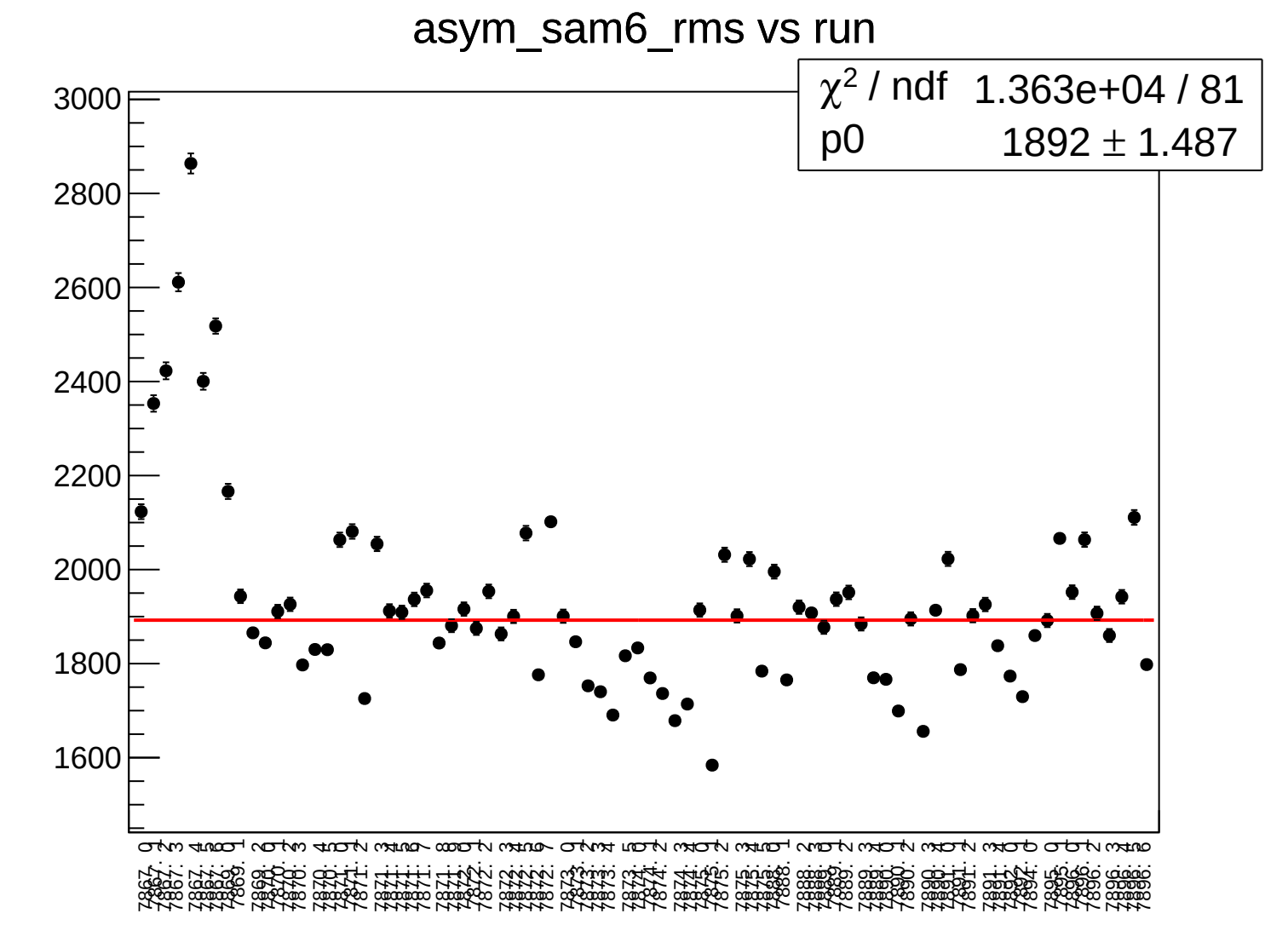

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 65.83 / 81
p0 201.5 ± 2095
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −38.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

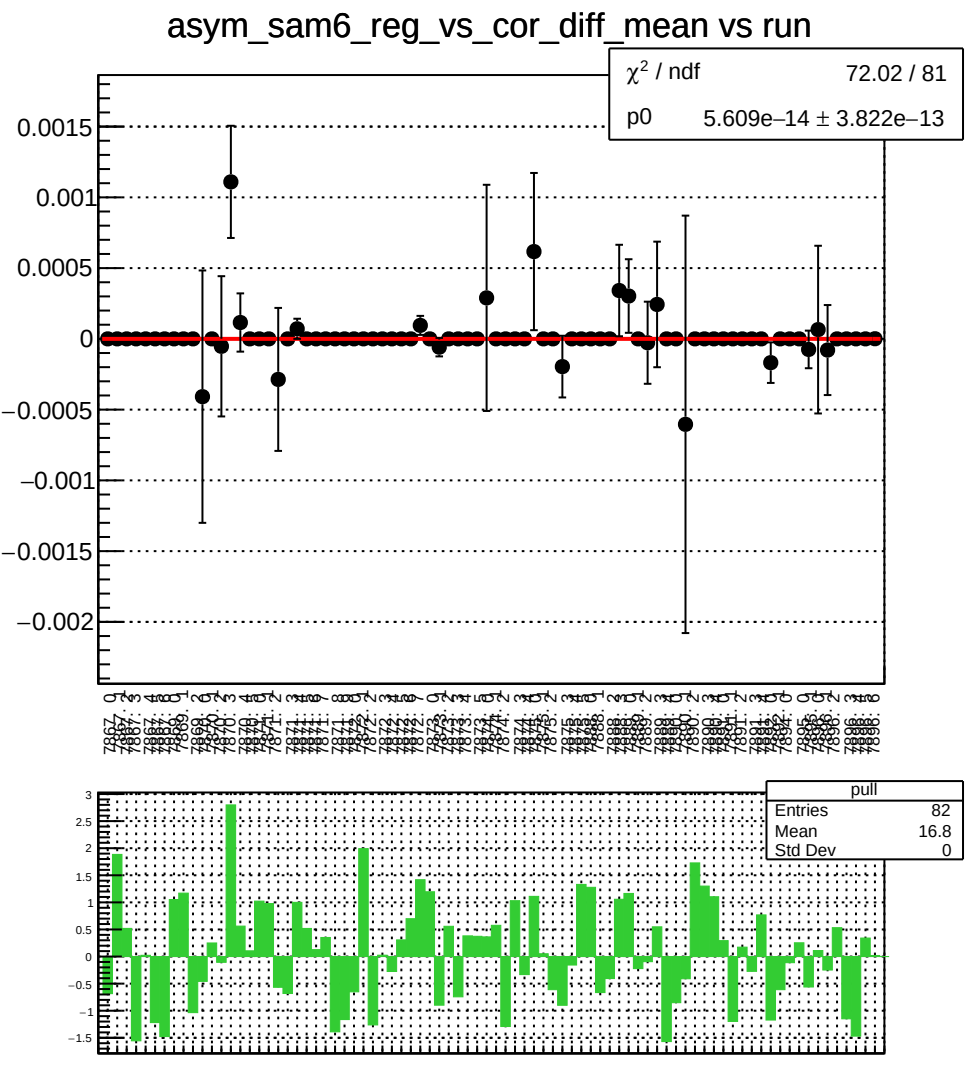

pull1D
Entries 82
Mean 0.00708
Std Dev 0.896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

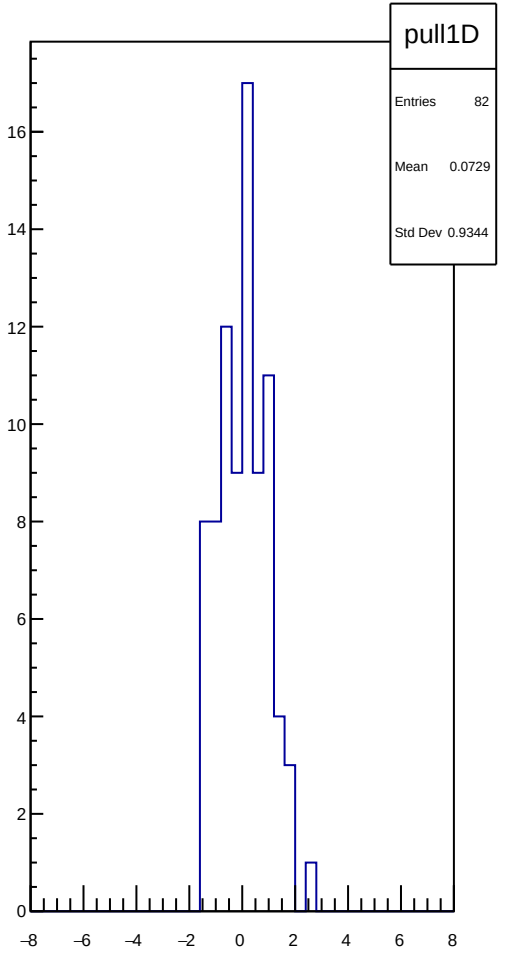

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.119e+04 / 81
p0 1886 ± 1.482
2800
2600
2400
2200
2000
1800
1600

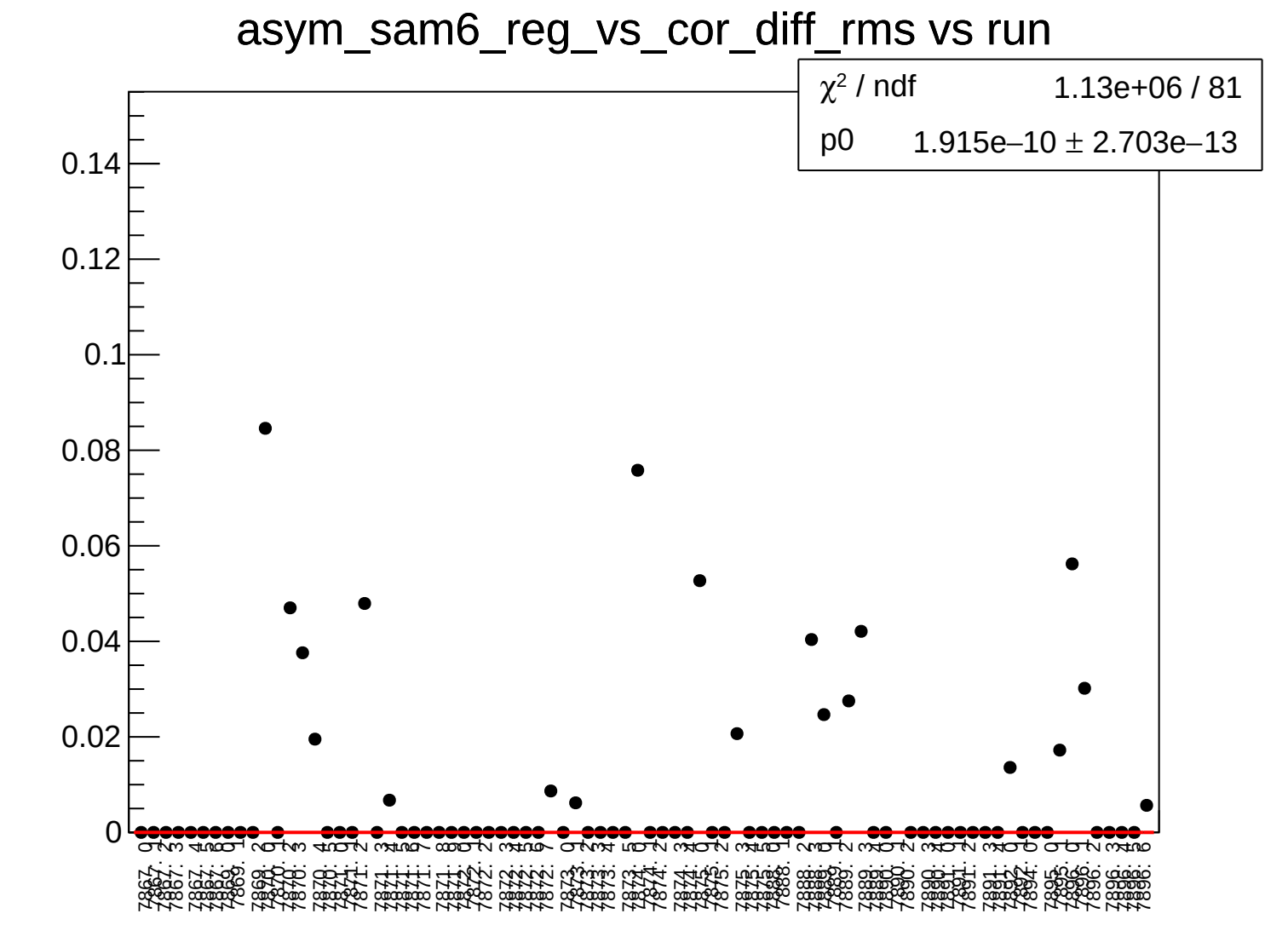

asym_sam6_mean vs run
χ² / ndf 68.33 / 81
p0 530.5 ± 2104
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −43.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

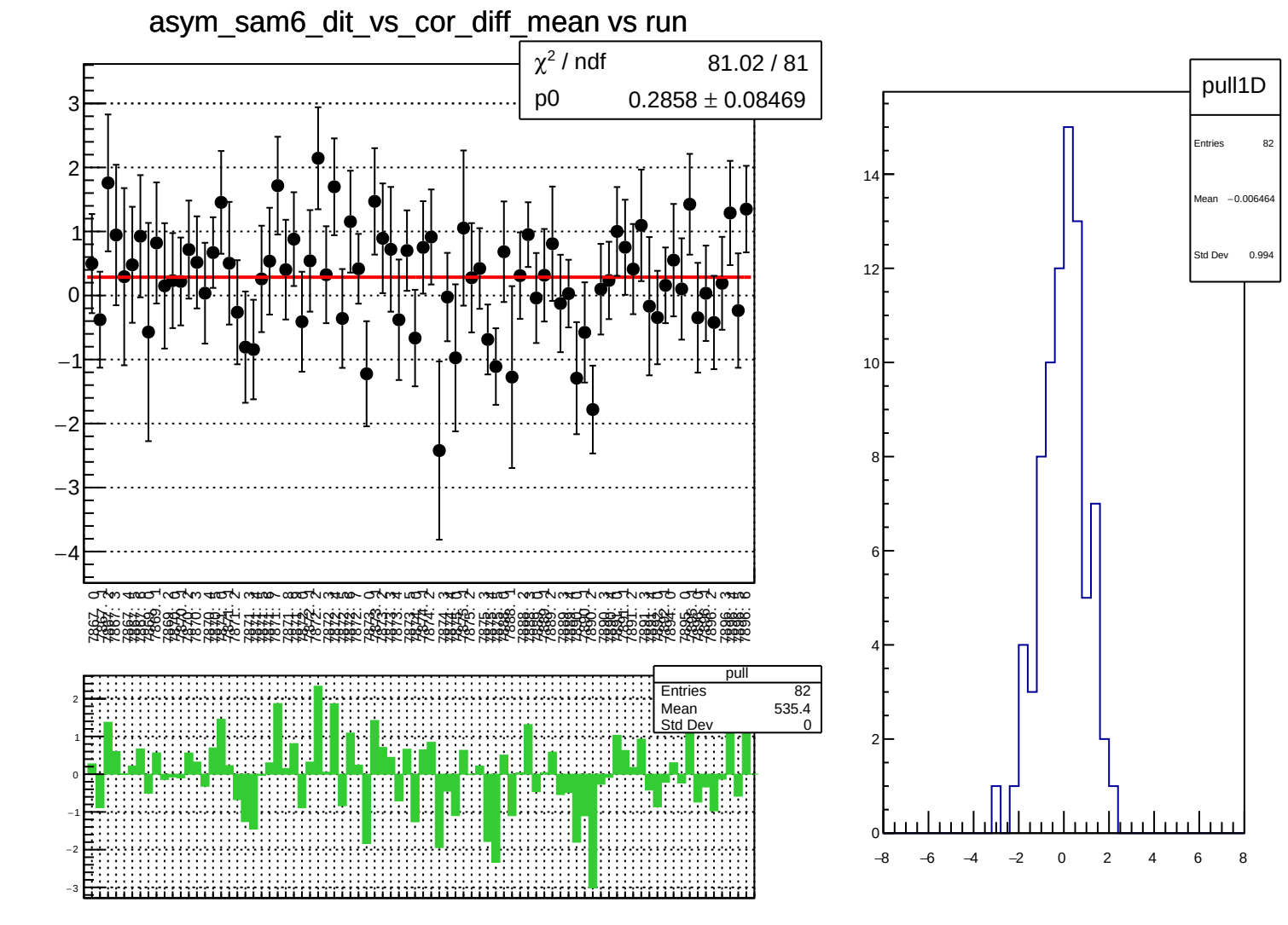

pull1D
Entries 82
Mean −0.007591
Std Dev 0.9128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

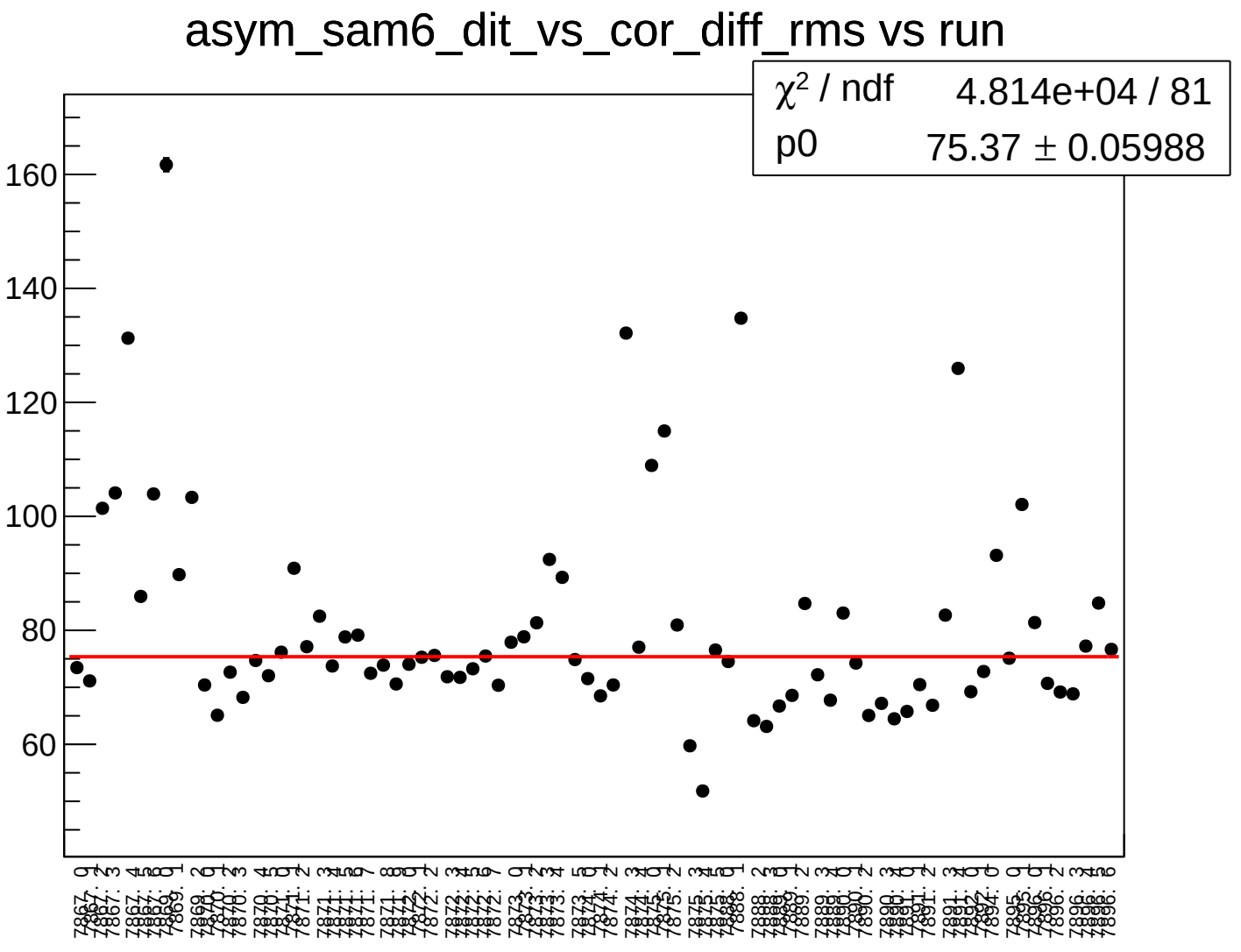

asym_sam6_rms vs run
χ^2 / ndf 1.363e+04 / 81
p0 1892 ± 1.487
3000
2800
2600
2400
2200
2000
1800
1600

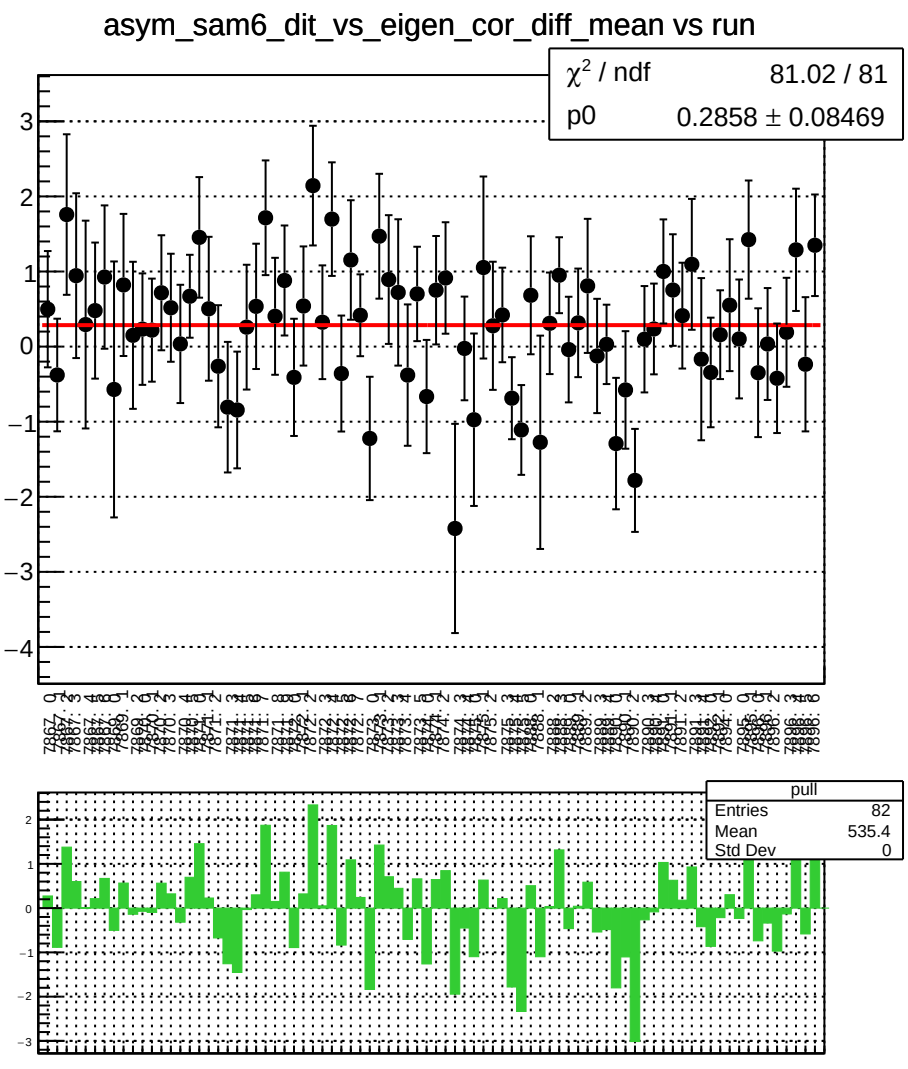

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 72.02 / 81
p0 5.609e−14 ± 3.822e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 82
Mean 16.8
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

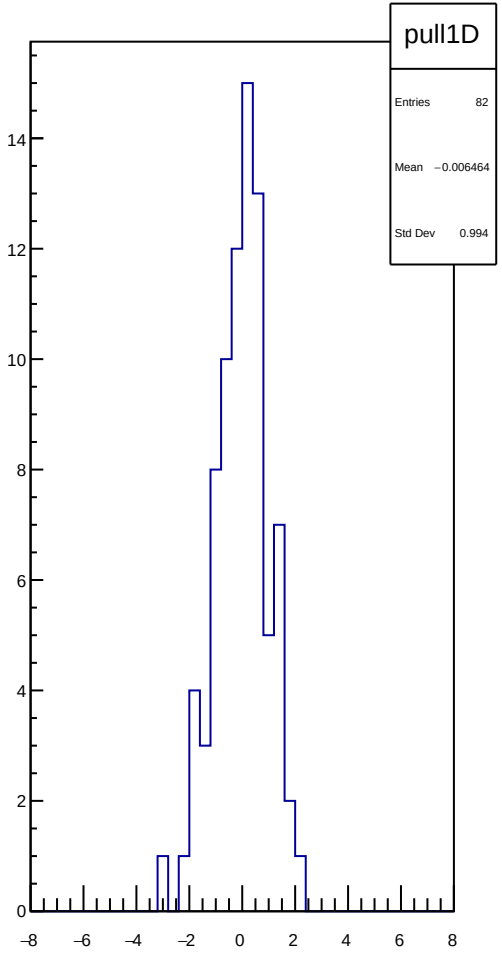

pull1D
Entries 82
Mean 0.0729
Std Dev 0.9344
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

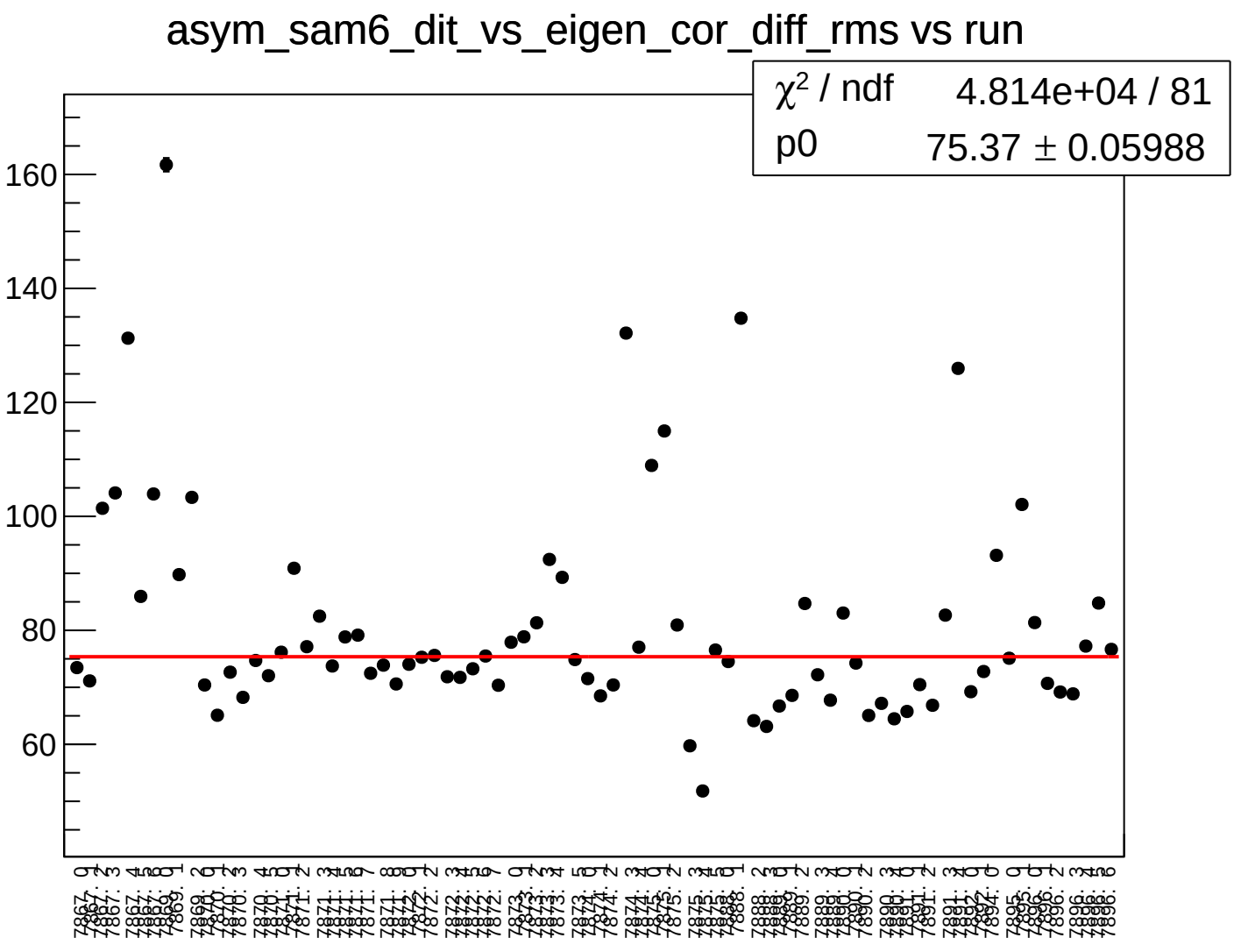

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 81
p0 1.915e−10 ± 2.703e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

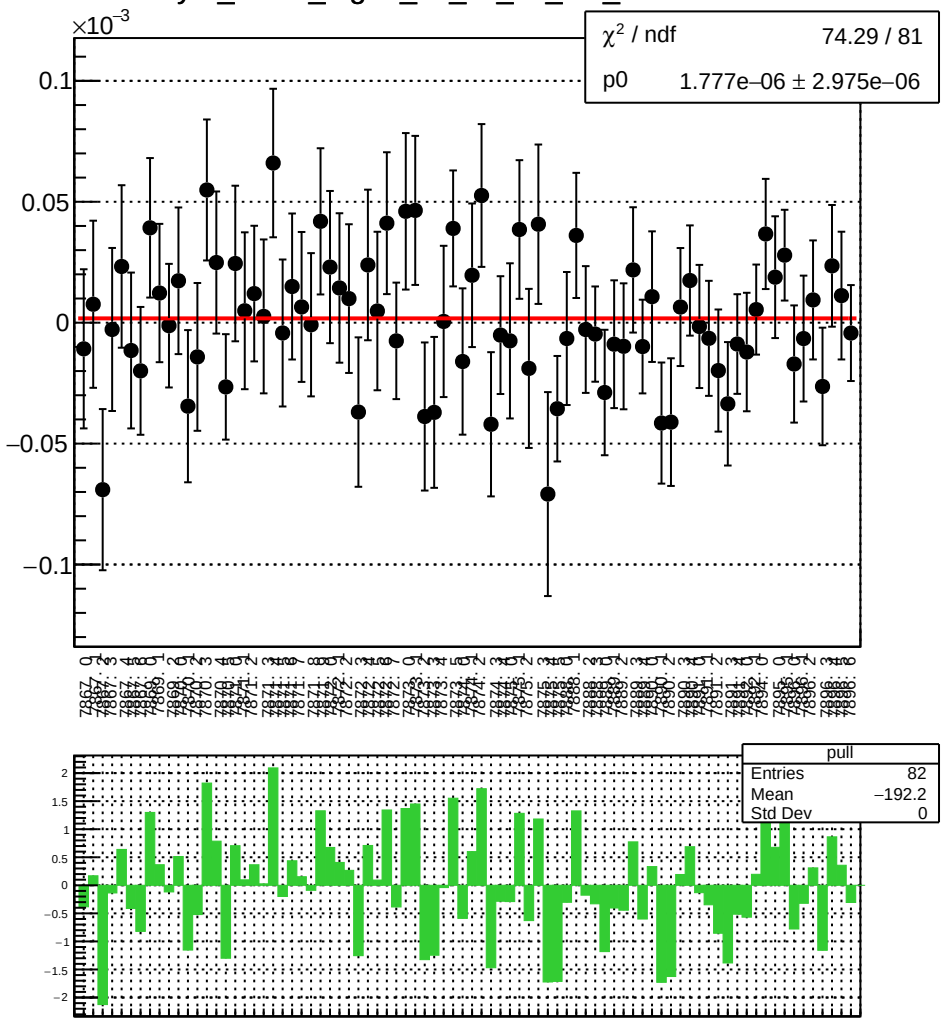

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 81.02 / 81
p0 0.2858 ± 0.08469
pull
Entries 82
Mean 535.4
Std Dev 0
pull1D
Entries 82
Mean −0.006464
Std Dev 0.994

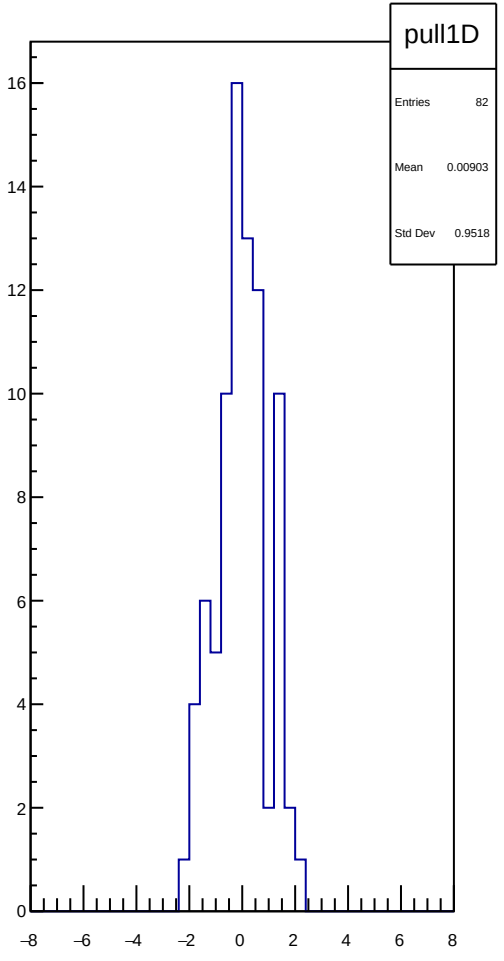

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 81
p0 75.37 ± 0.05988
160
140
120
100
80
60

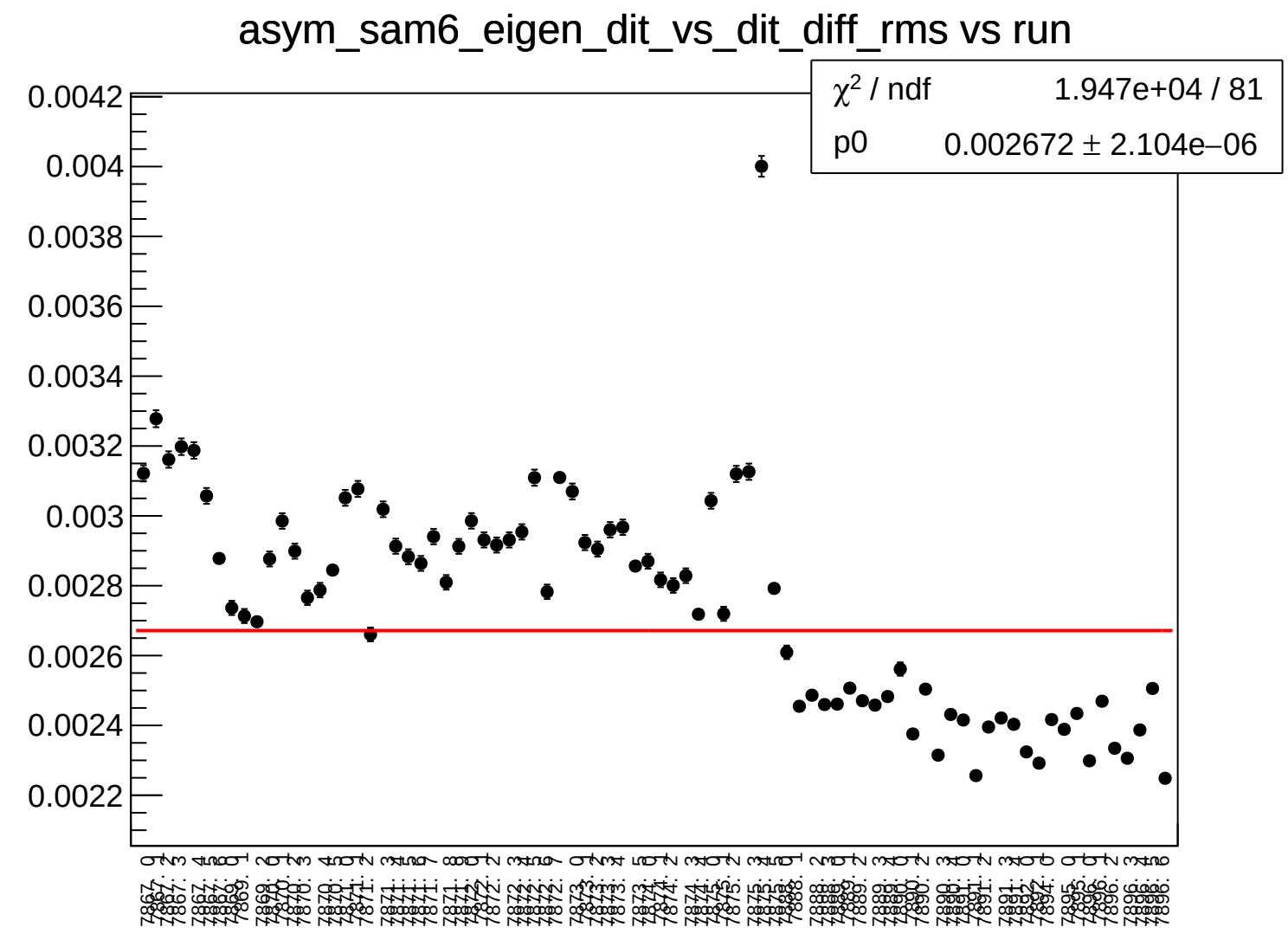

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.02 / 81
p0 0.2858 ± 0.08469
pull
Entries 82
Mean 535.4
Std Dev 0

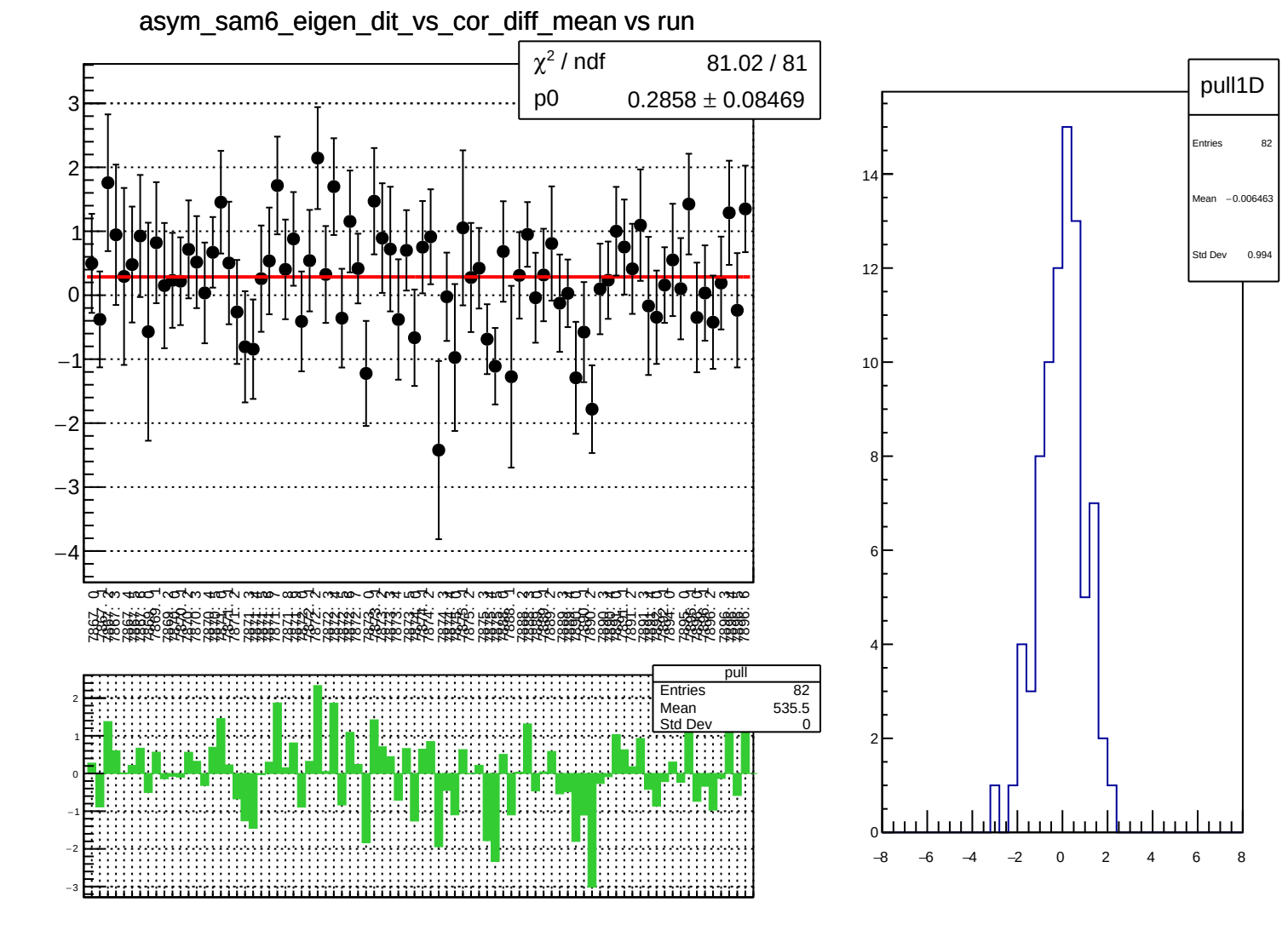

pull1D
Entries 82
Mean −0.006464
Std Dev 0.994

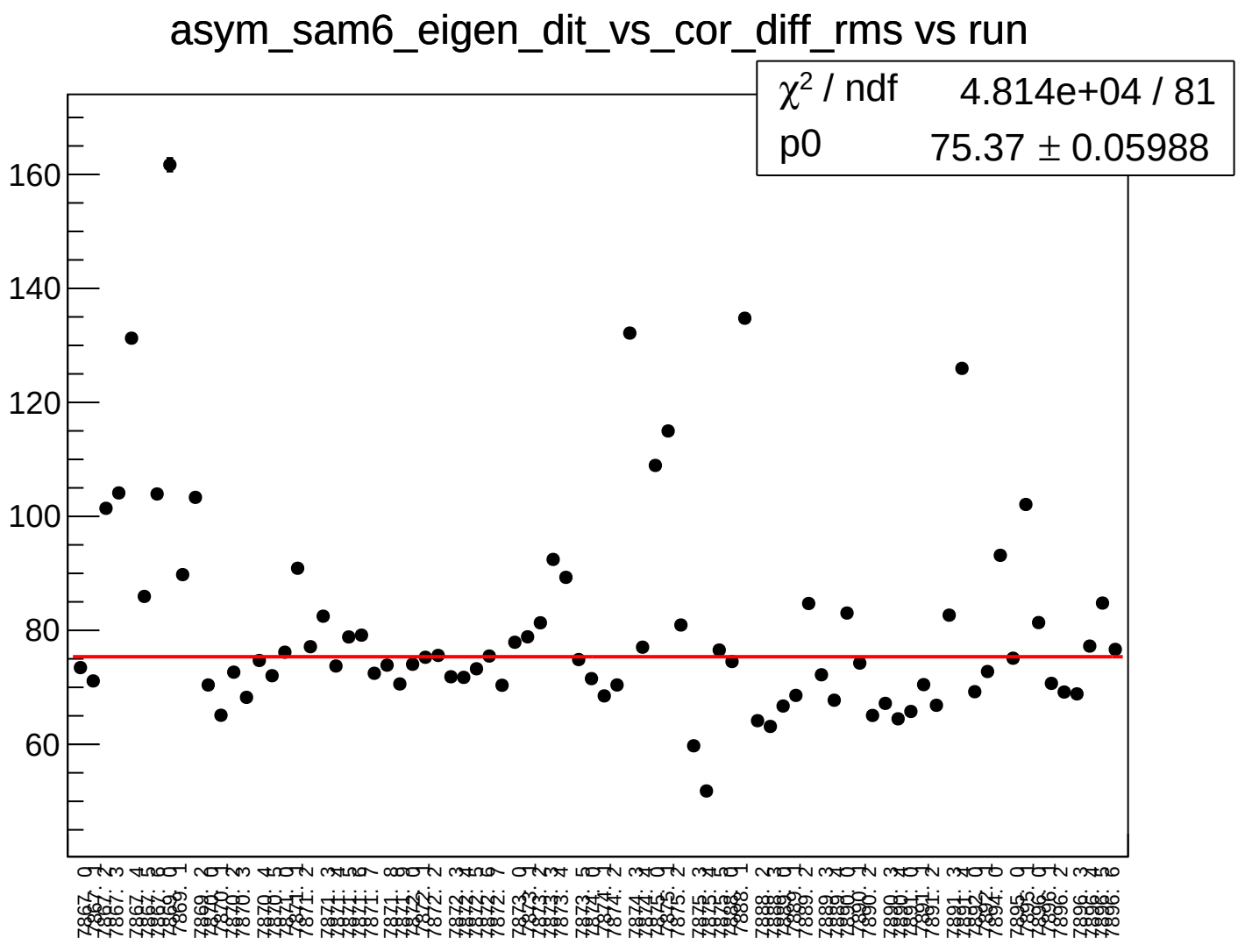

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 81
p0 75.37 ± 0.05988
160
140
120
100
80
60

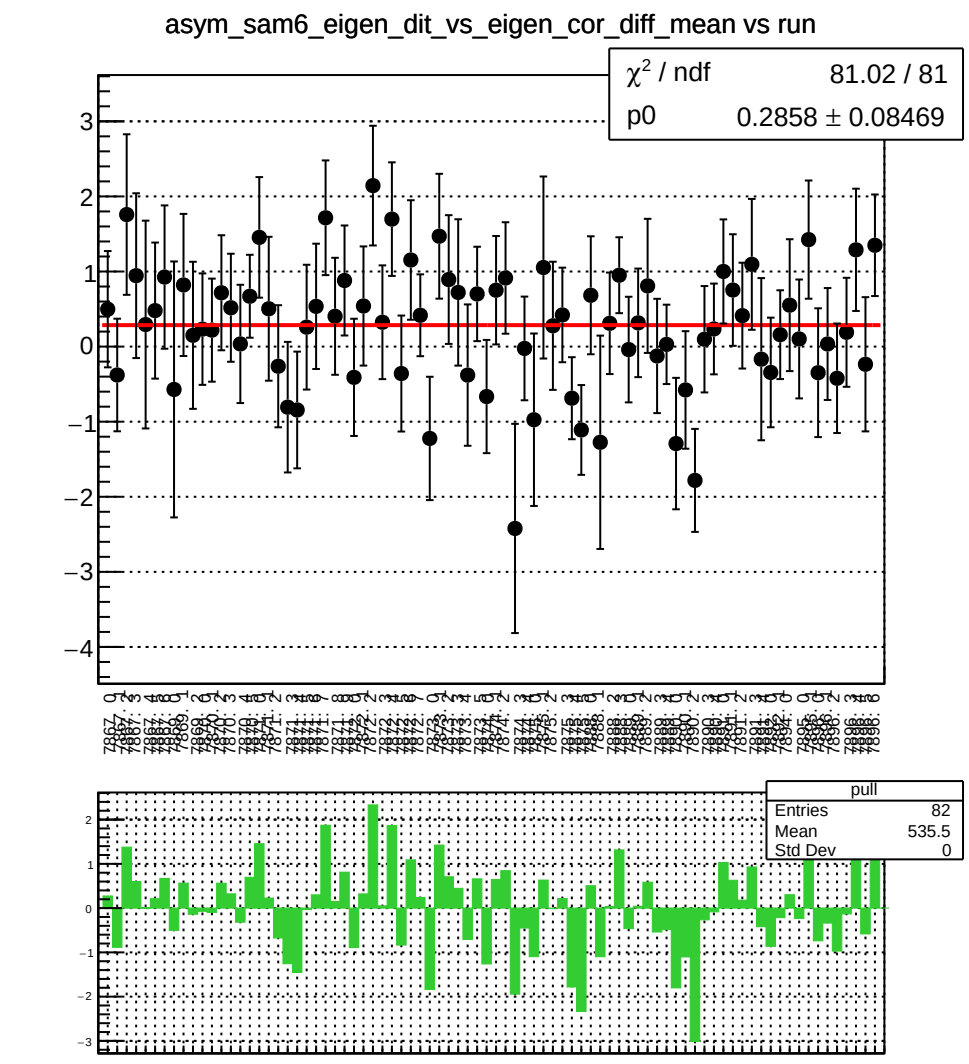

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.29 / 81
p0 1.777e−06 ± 2.975e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −192.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

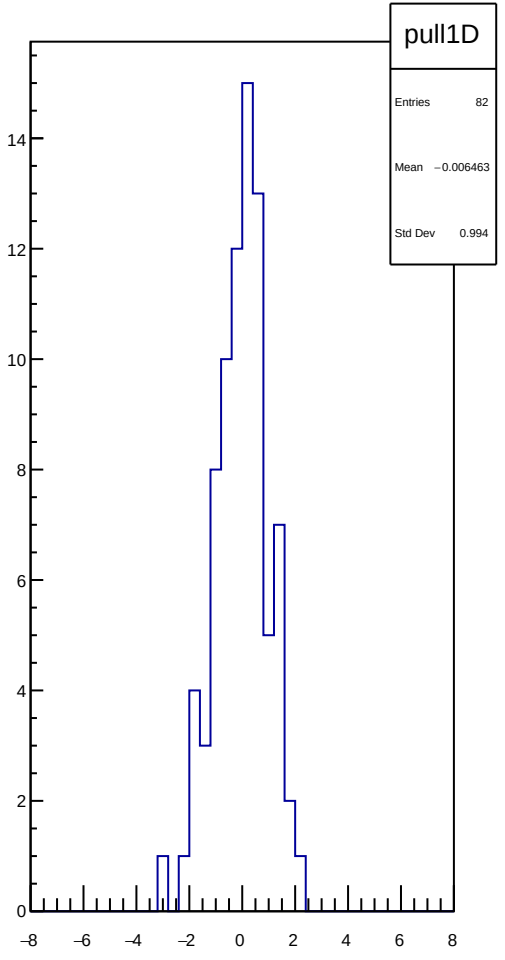

pull1D
Entries 82
Mean 0.00903
Std Dev 0.9518
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

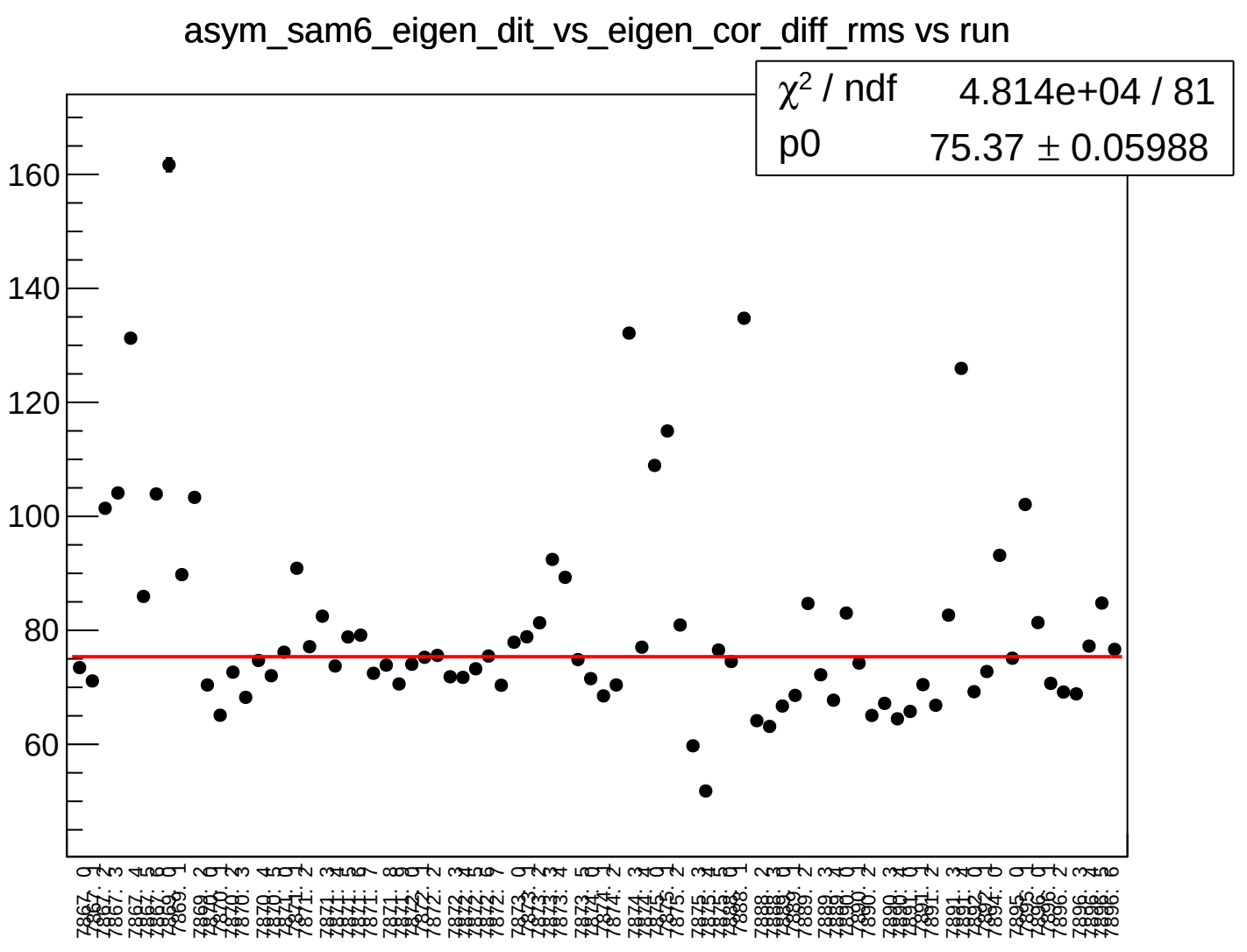

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.947e+04 / 81
p0 0.002672 ± 2.104e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

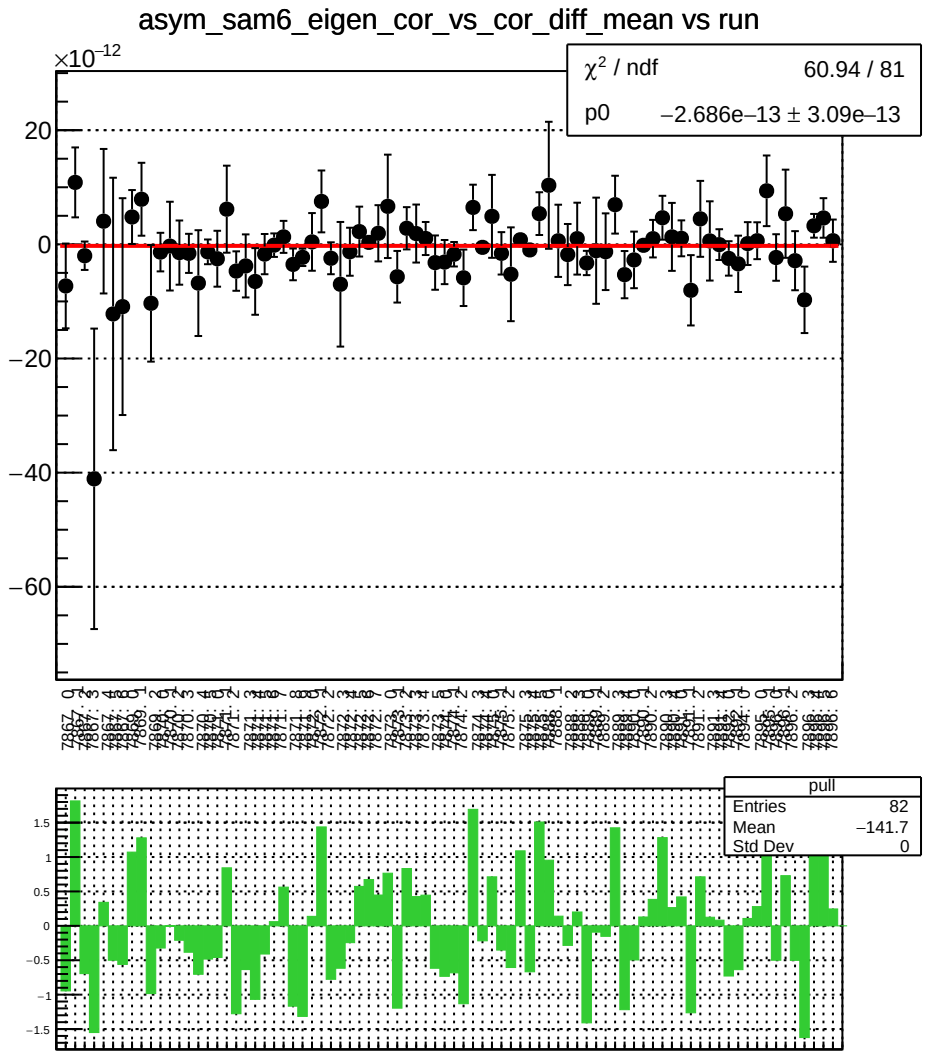

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.02 / 81
p0 0.2858 ± 0.08469
pull
Entries 82
Mean 535.5
Std Dev 0
pull1D
Entries 82
Mean −0.006463
Std Dev 0.994

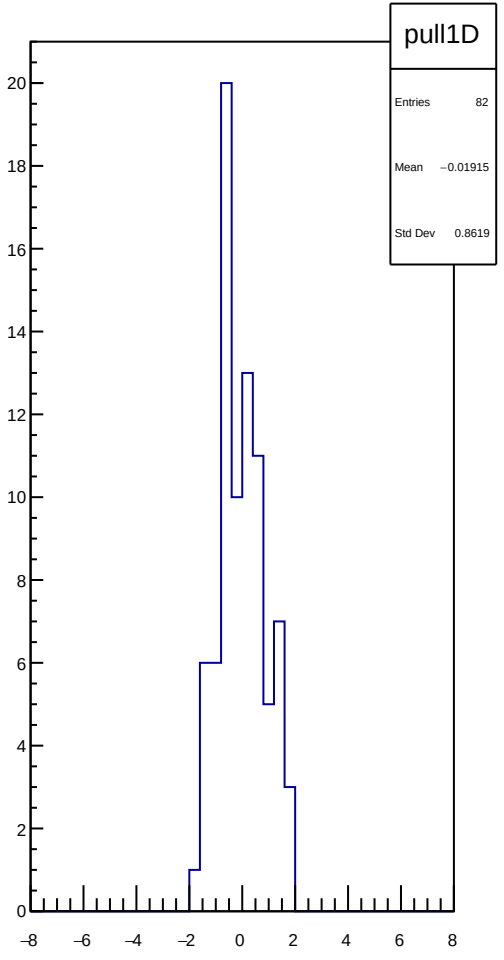

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 81
p0 75.37 ± 0.05988
160
140
120
100
80
60

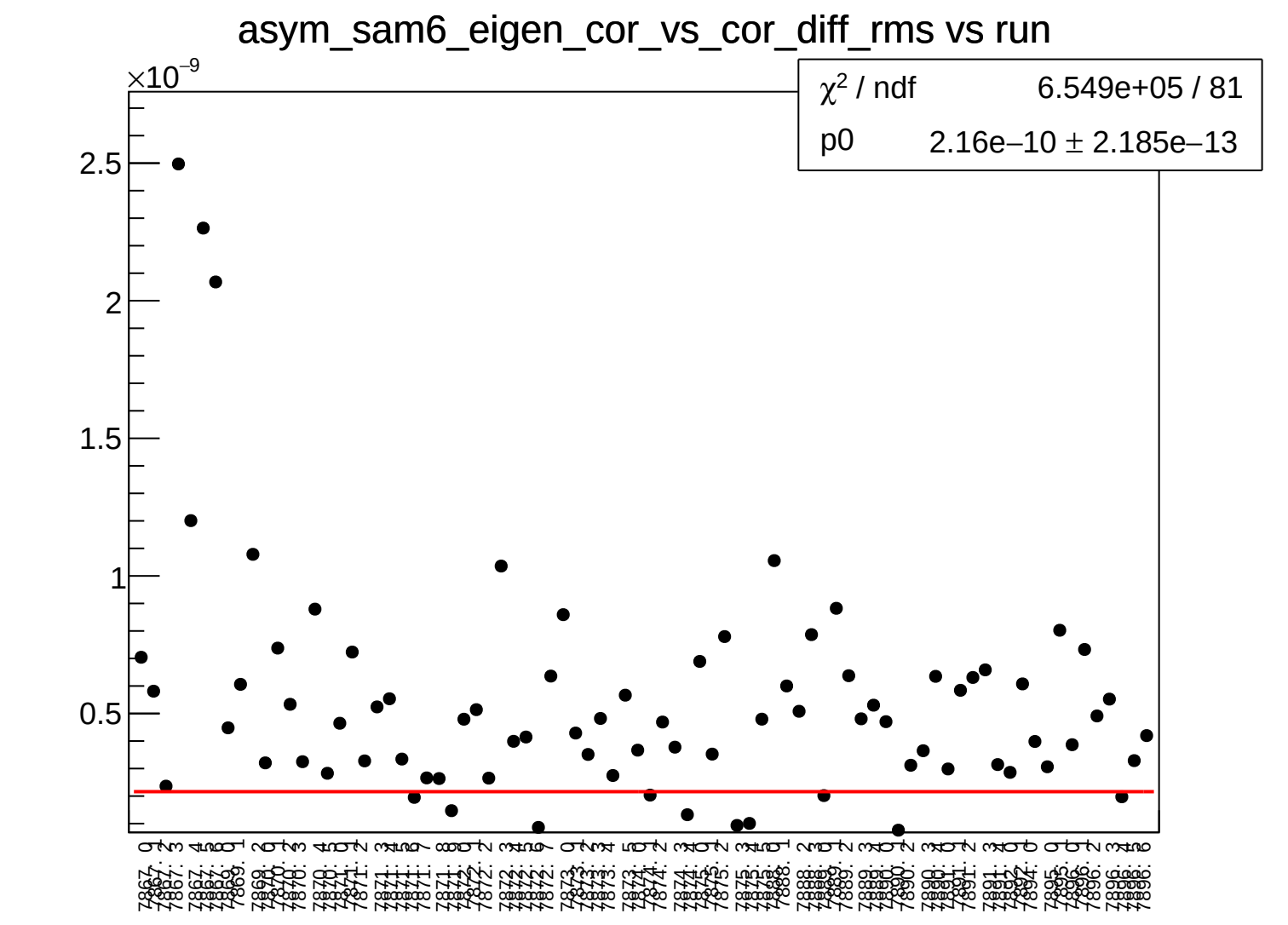

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.02 / 81
p0 0.2858 ± 0.08469
pull
Entries 82
Mean 535.5
Std Dev 0

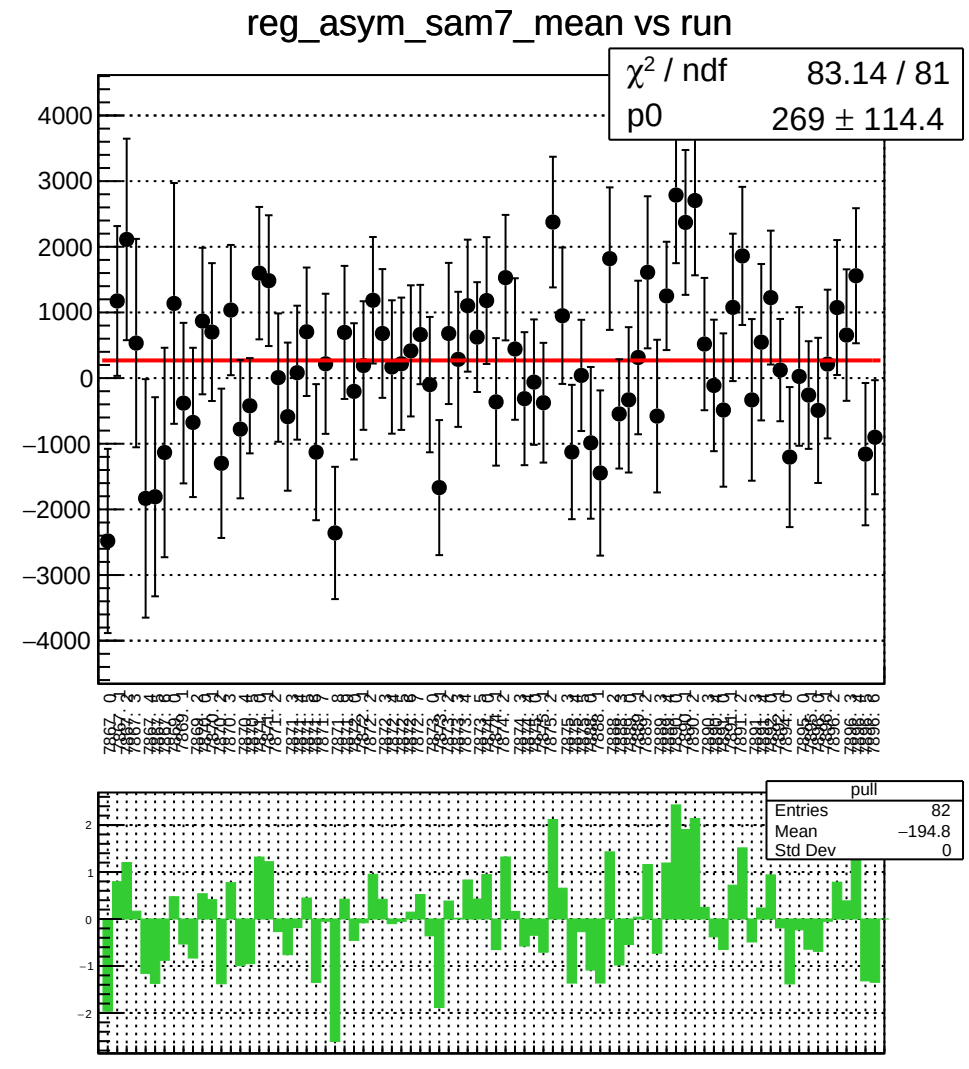

pull1D
Entries 82
Mean −0.006463
Std Dev 0.994

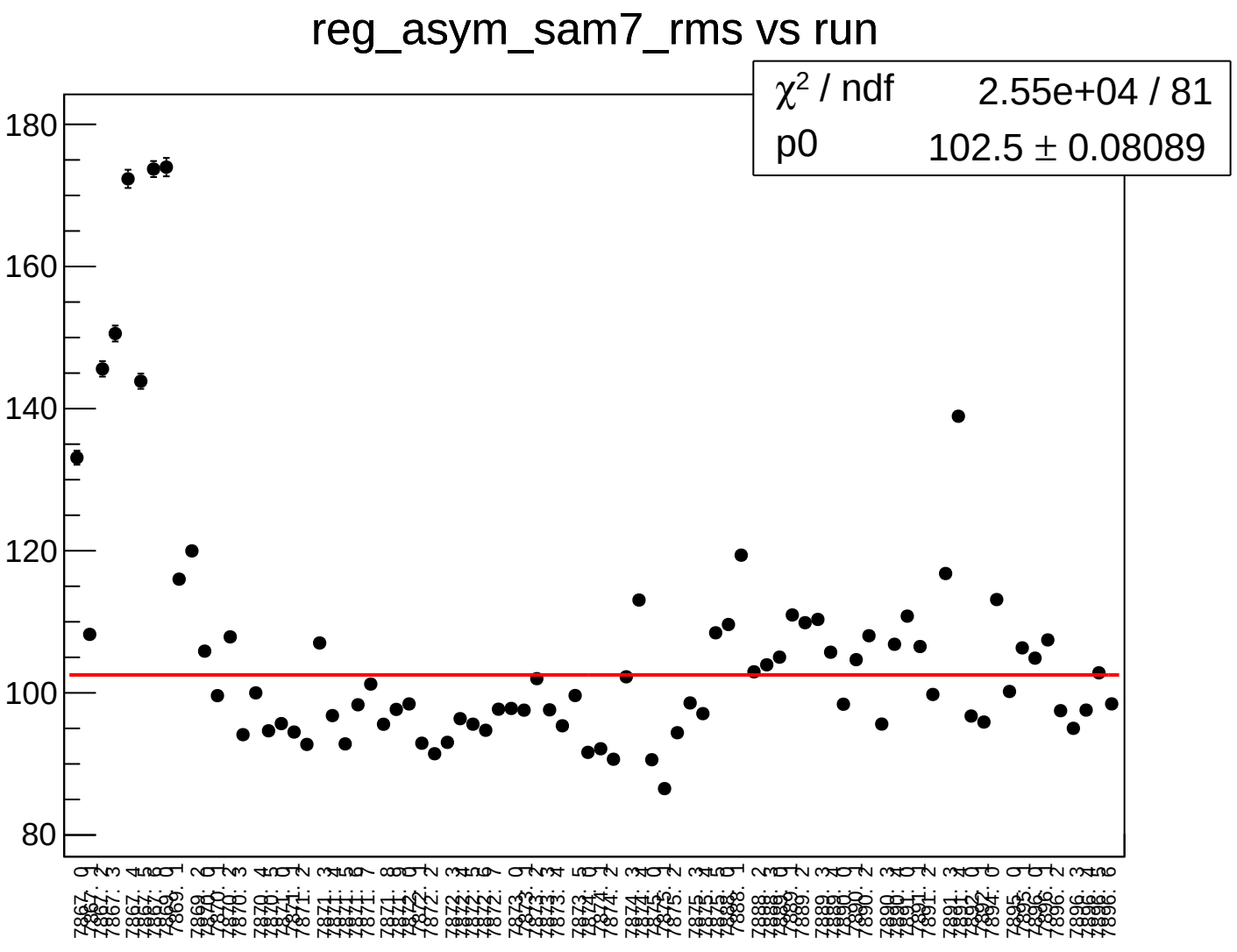

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 81
p0 75.37 ± 0.05988
160
140
120
100
80
60

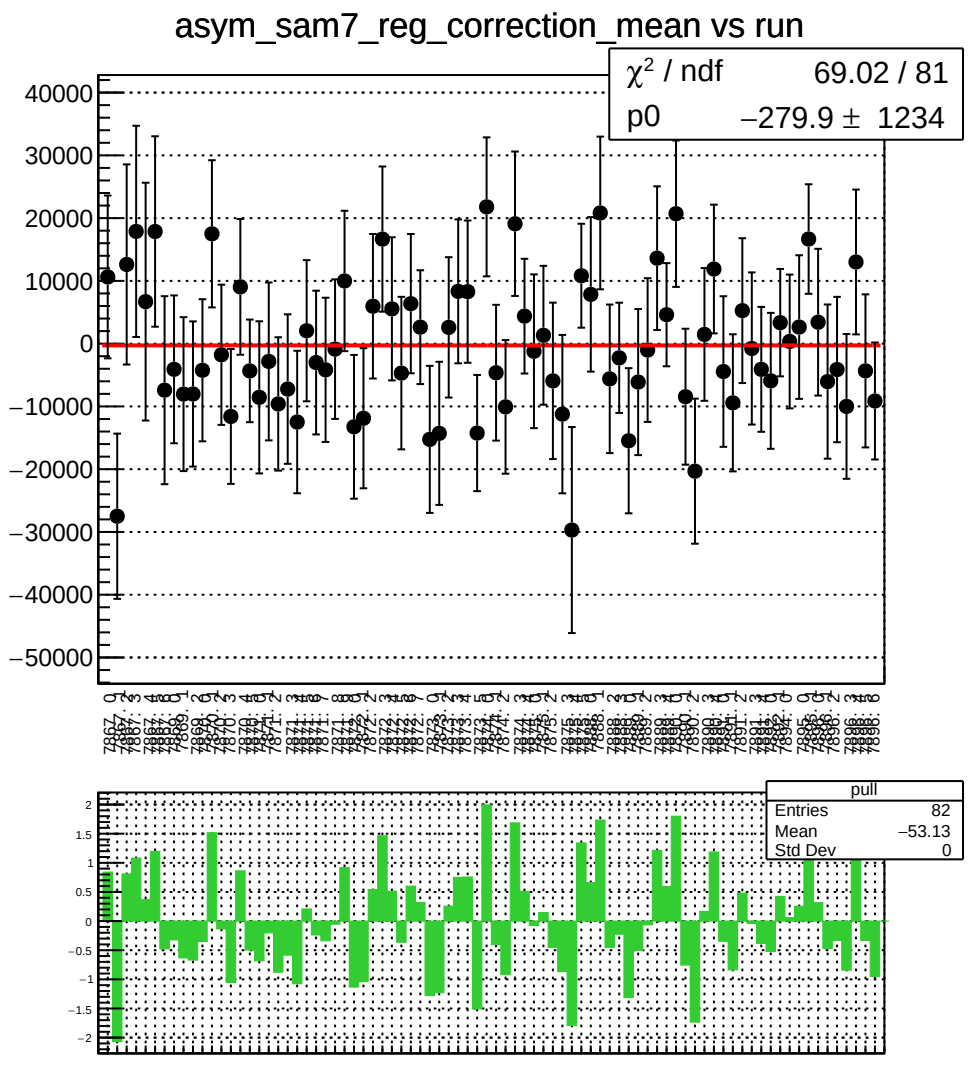

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.94 / 81
p0 −2.686e−13 ± 3.09e−13
20
0
−20
−40
−60
pull
Entries 82
Mean −141.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

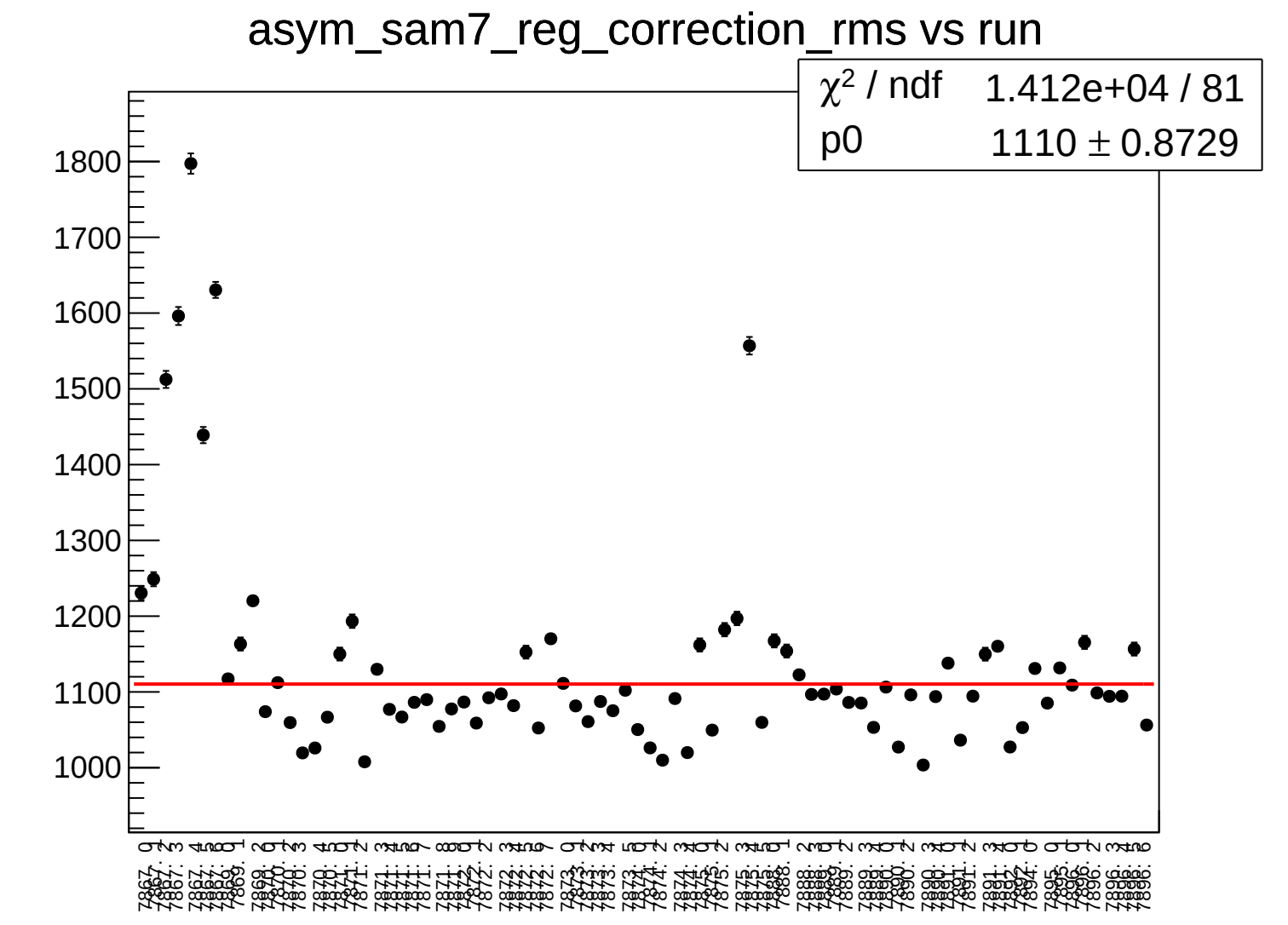

pull1D
Entries 82
Mean −0.01915
Std Dev 0.8619
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

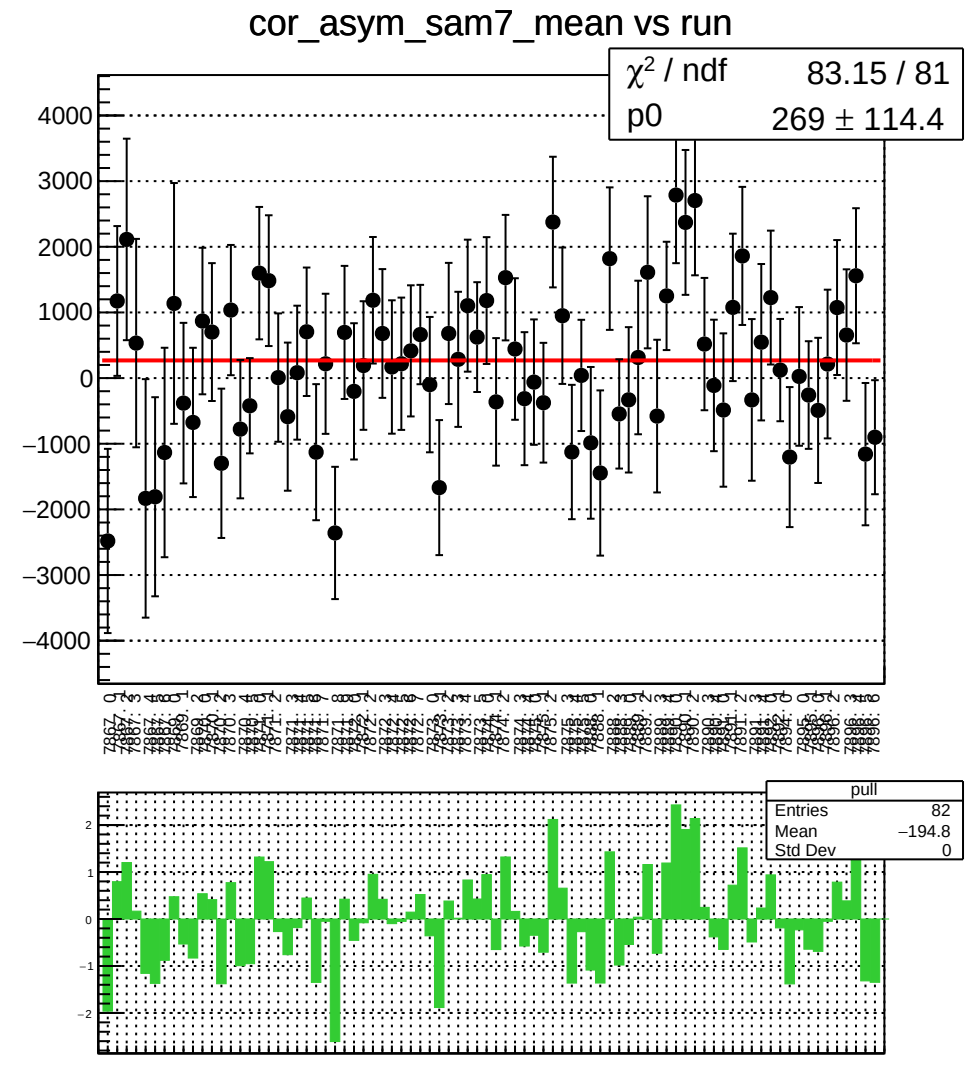

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.549e+05 / 81
p0 2.16e−10 ± 2.185e−13
2.5
2
1.5
1
0.5

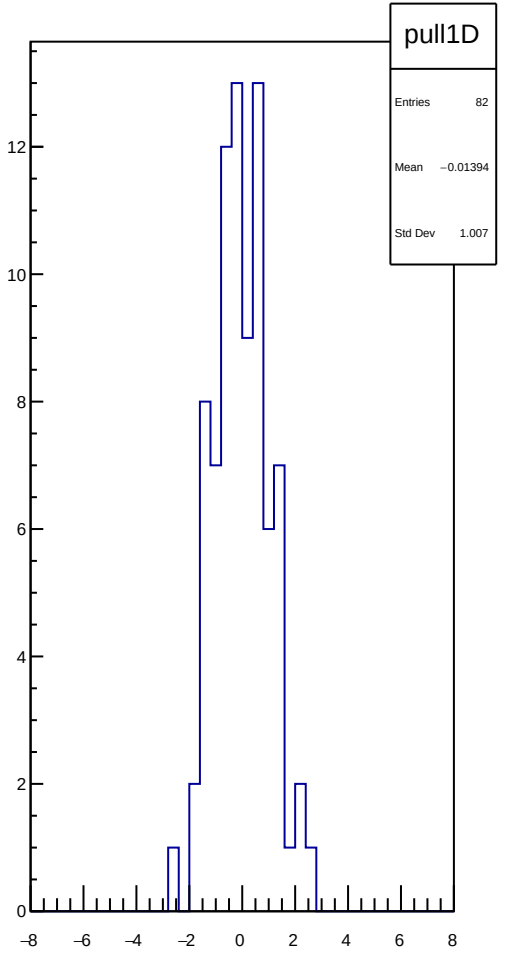

reg_asym_sam7_mean vs run
χ² / ndf 83.14 / 81
p0 269 ± 114.4
pull
Entries 82
Mean −194.8
Std Dev 0
pull1D
Entries 82
Mean −0.01394
Std Dev 1.007

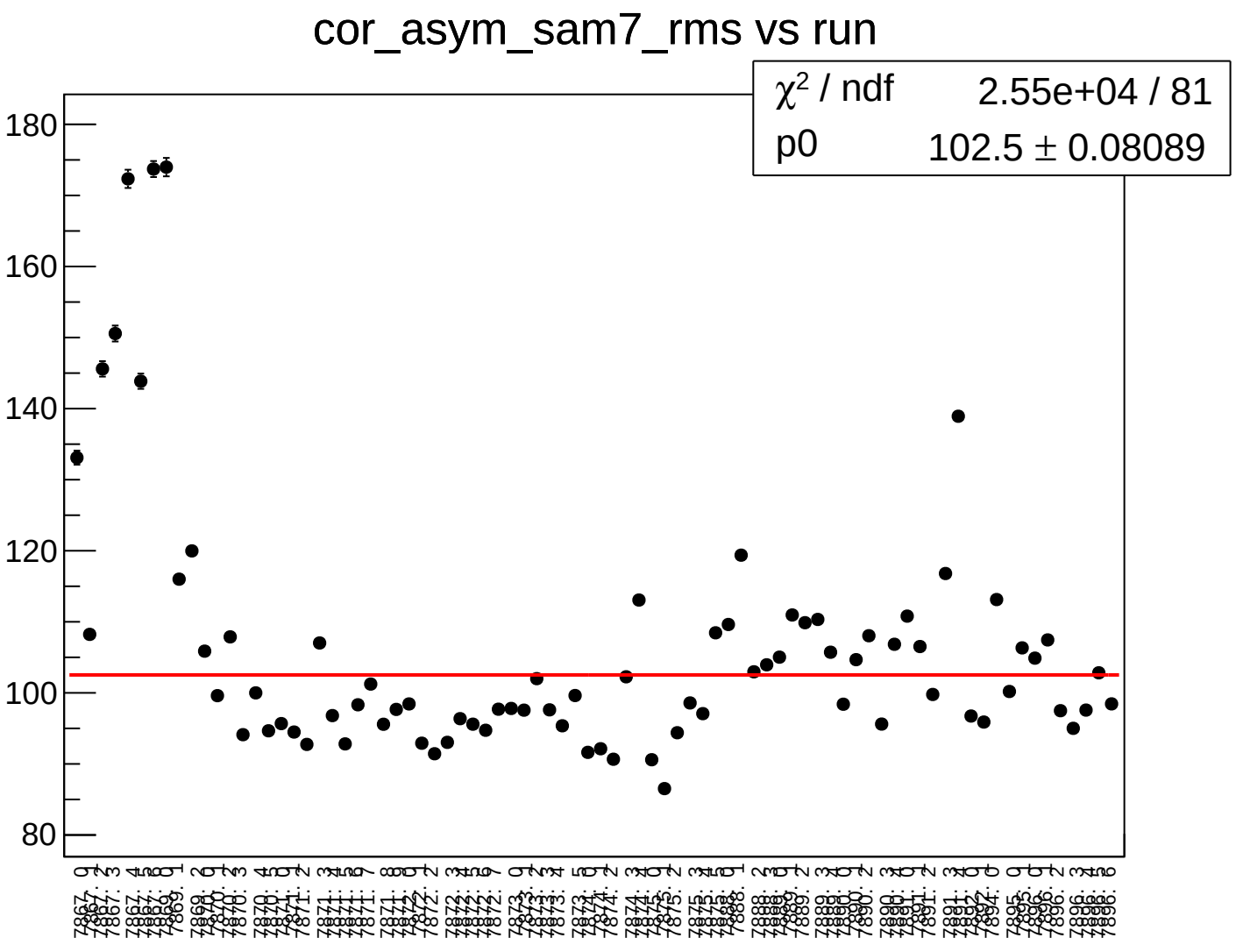

reg_asym_sam7_rms vs run
χ² / ndf 2.55e+04 / 81
p0 102.5 ± 0.08089
180
160
140
120
100
80

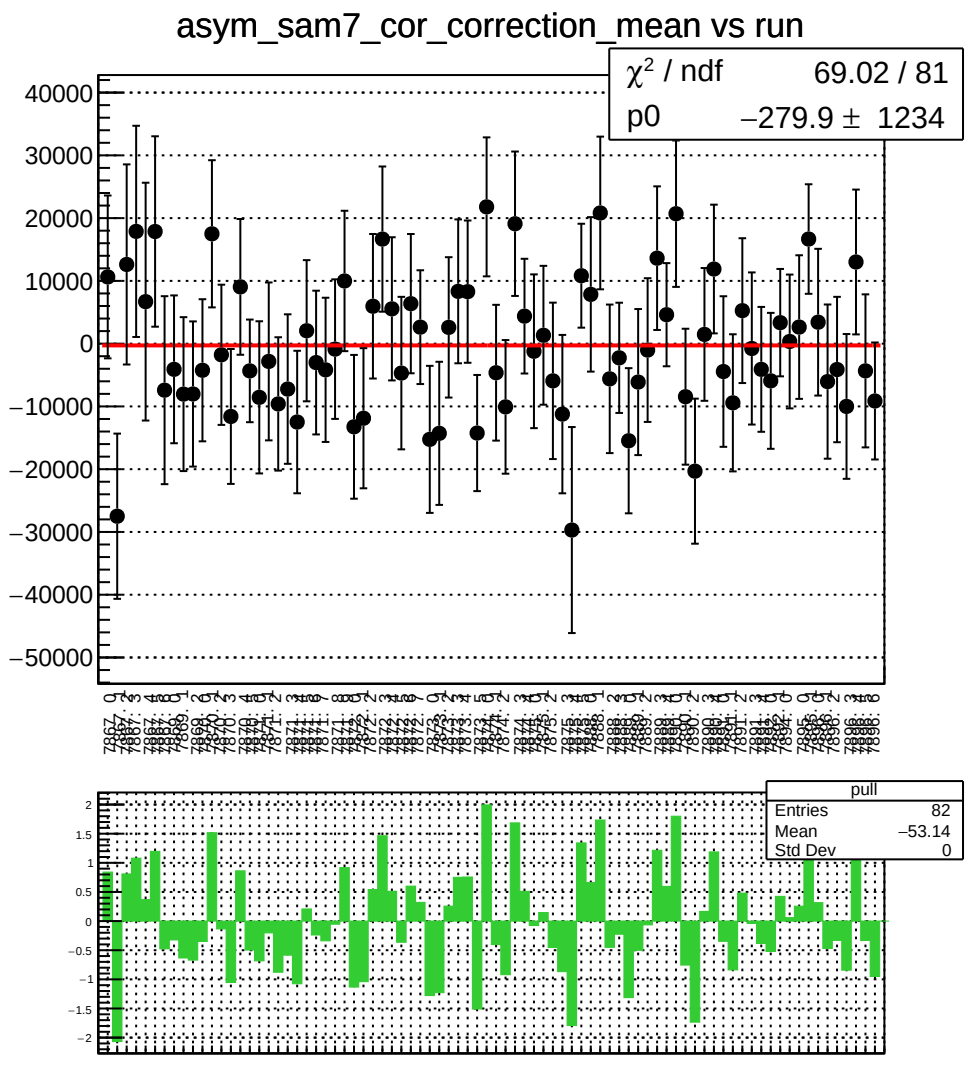

asym_sam7_reg_correction_mean vs run
χ² / ndf 69.02 / 81
p0 −279.9 ± 1234
pull
Entries 82
Mean −53.13
Std Dev 0
pull1D
Entries 82
Mean −0.009158
Std Dev 0.9174

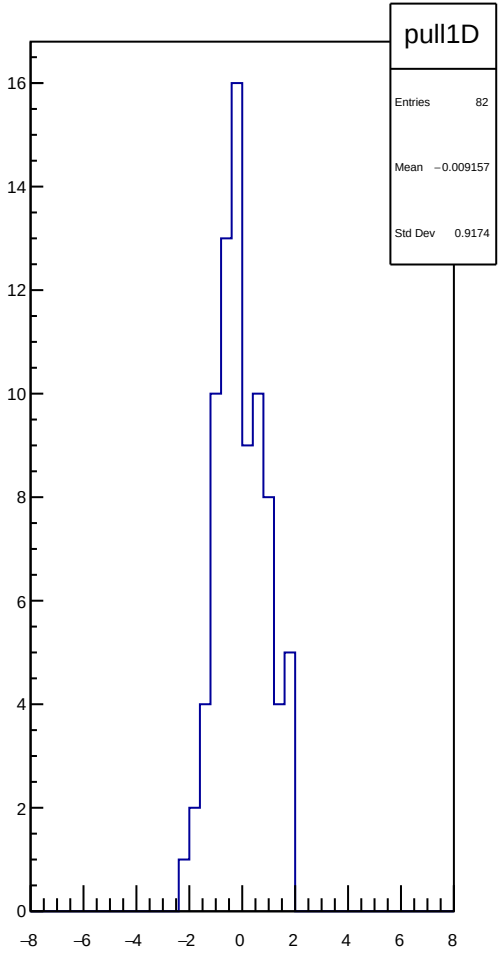

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.412e+04 / 81
p0 1110 ± 0.8729
1800
1700
1600
1500
1400
1300
1200
1100
1000

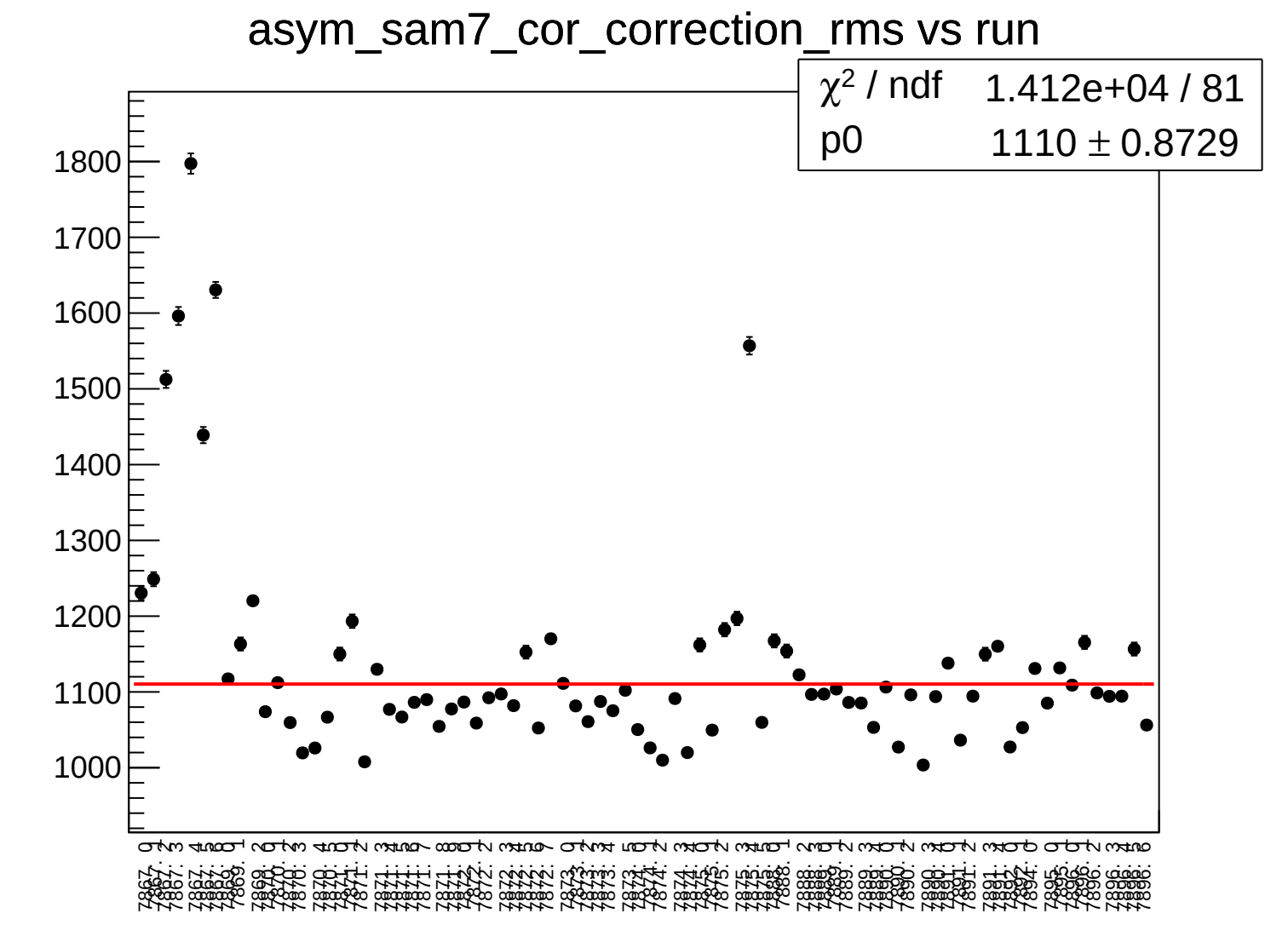

cor_asym_sam7_mean vs run
χ² / ndf 83.15 / 81
p0 269 ± 114.4
pull
Entries 82
Mean −194.8
Std Dev 0

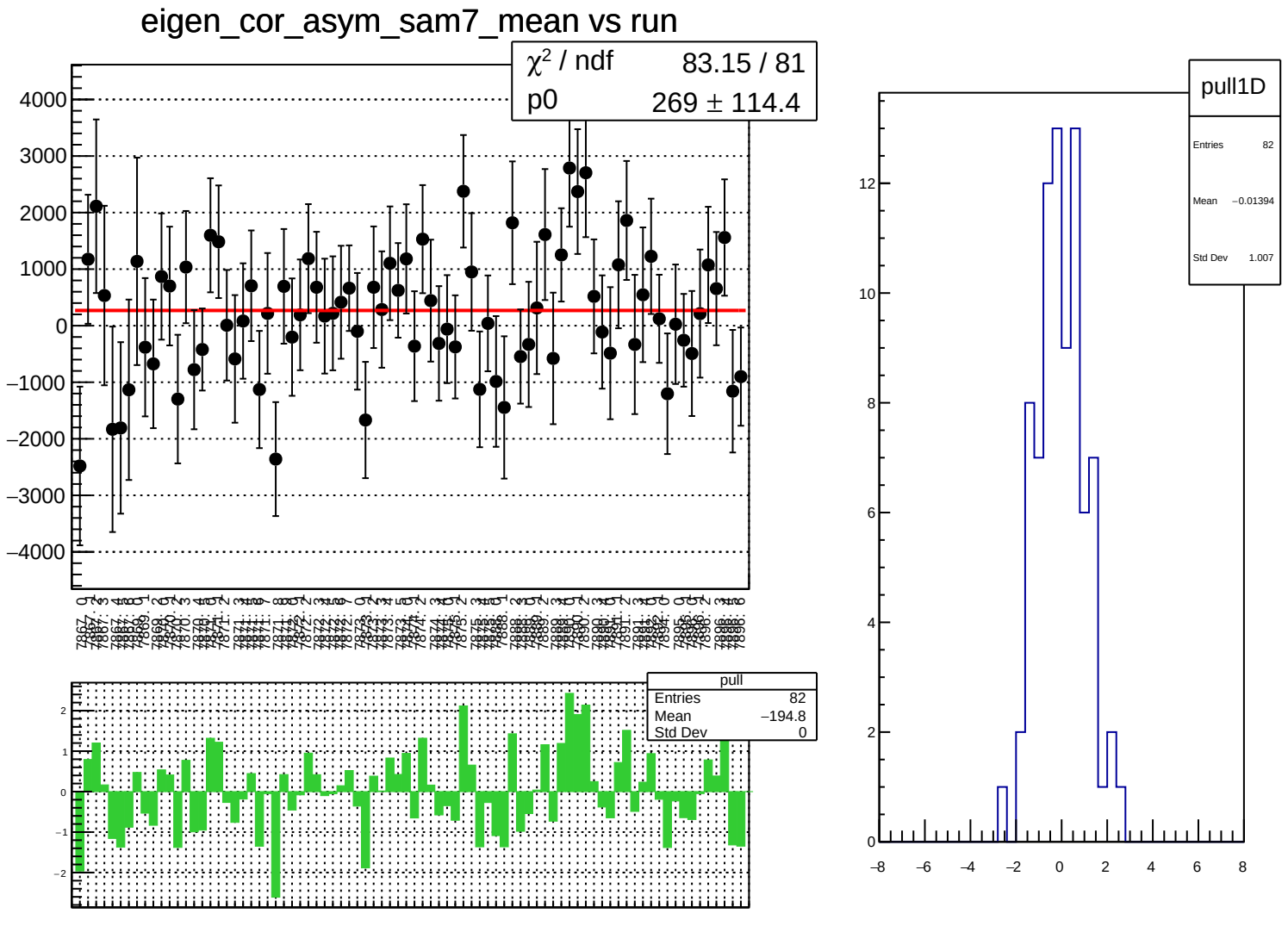

pull1D
Entries 82
Mean −0.01394
Std Dev 1.007

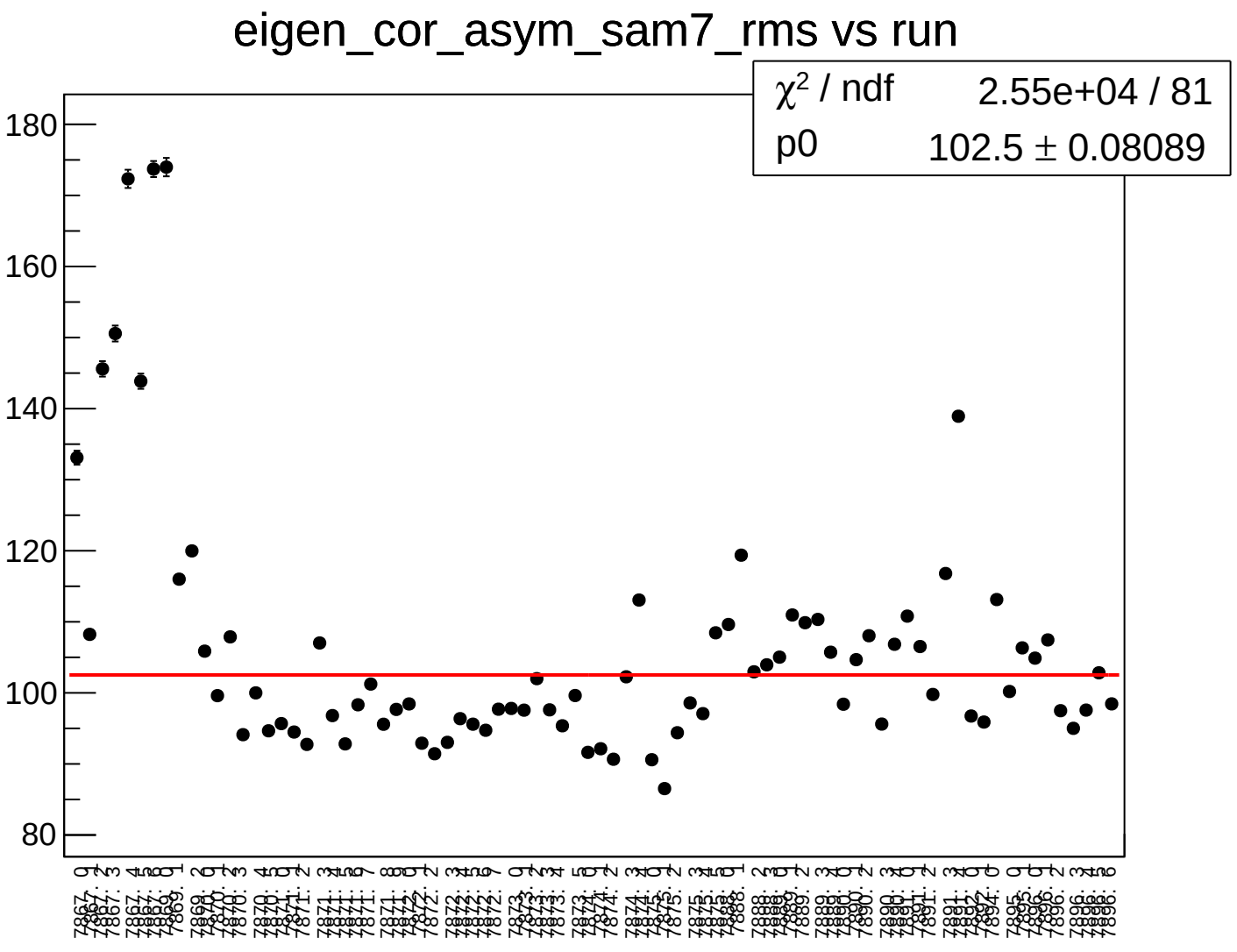

cor_asym_sam7_rms vs run
χ² / ndf 2.55e+04 / 81
p0 102.5 ± 0.08089
180
160
140
120
100
80

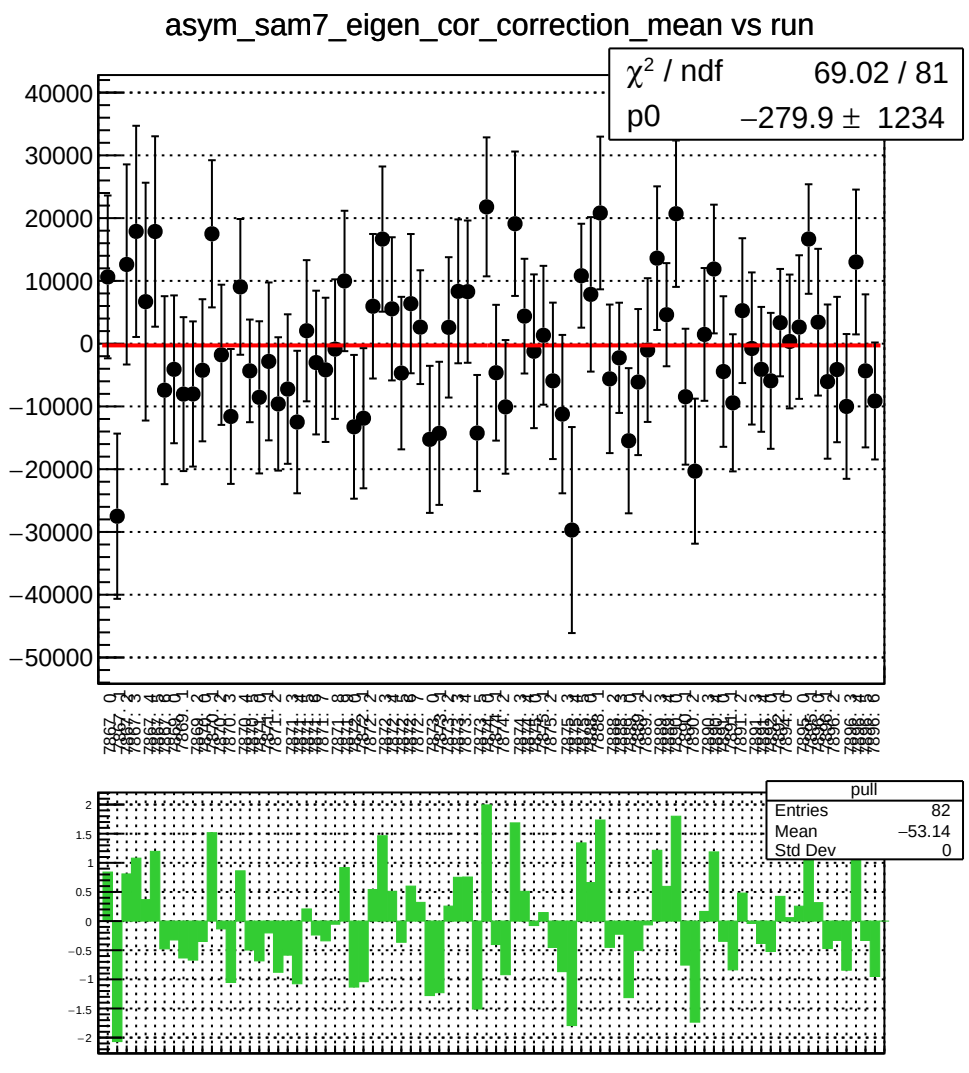

asym_sam7_cor_correction_mean vs run
χ² / ndf 69.02 / 81
p0 −279.9 ± 1234
pull
Entries 82
Mean −53.14
Std Dev 0

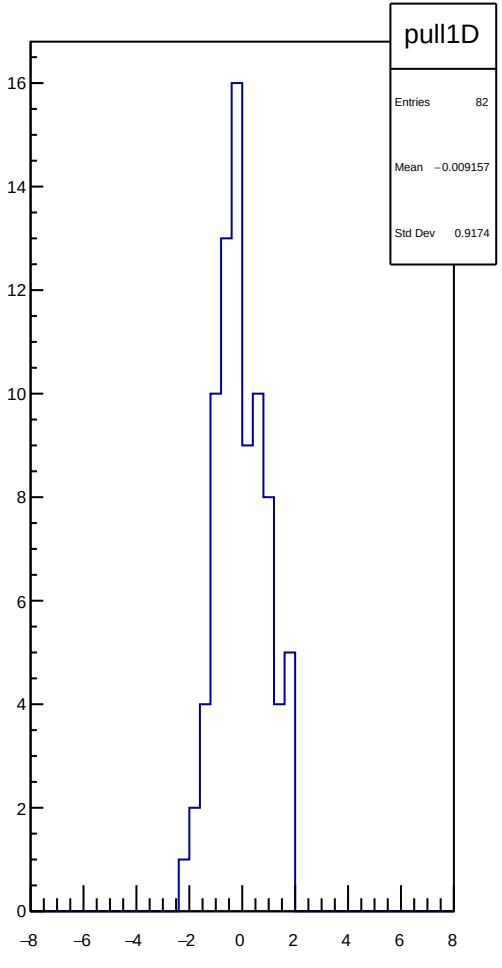

pull1D
Entries 82
Mean −0.009157
Std Dev 0.9174

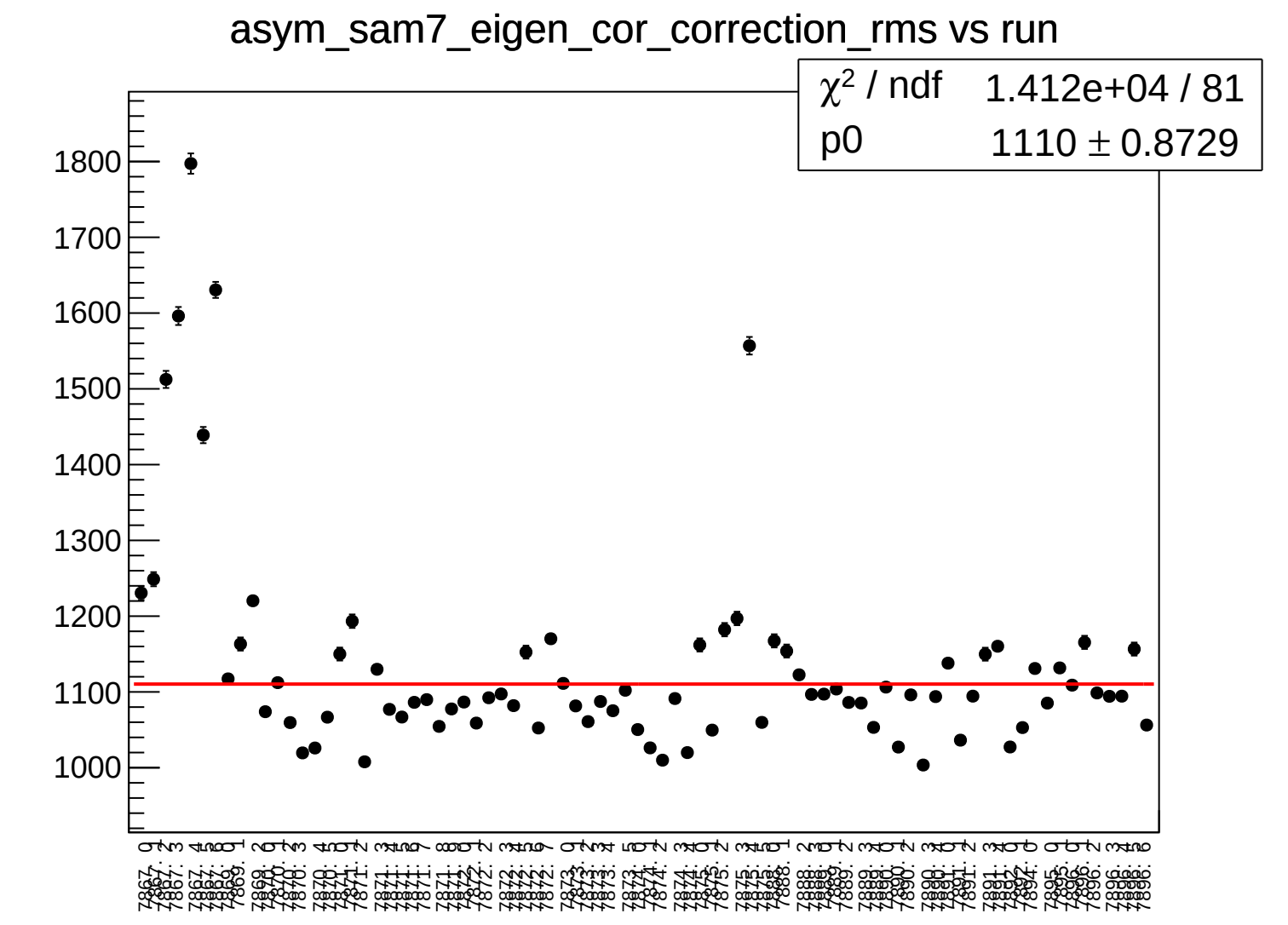

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.412e+04 / 81
p0 1110 ± 0.8729
1800
1700
1600
1500
1400
1300
1200
1100
1000

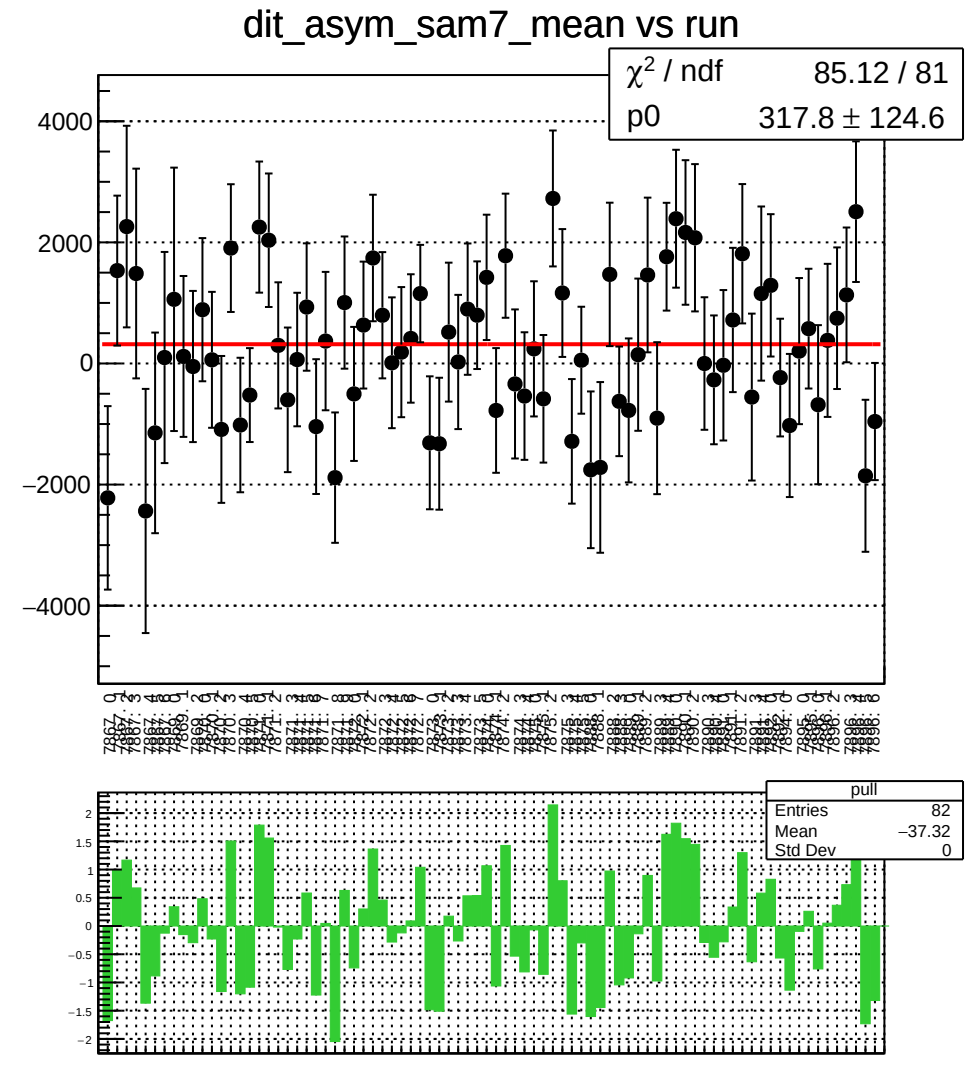

eigen_cor_asym_sam7_mean vs run
χ² / ndf 83.15 / 81
p0 269 ± 114.4
pull
Entries 82
Mean −194.8
Std Dev 0
pull1D
Entries 82
Mean −0.01394
Std Dev 1.007

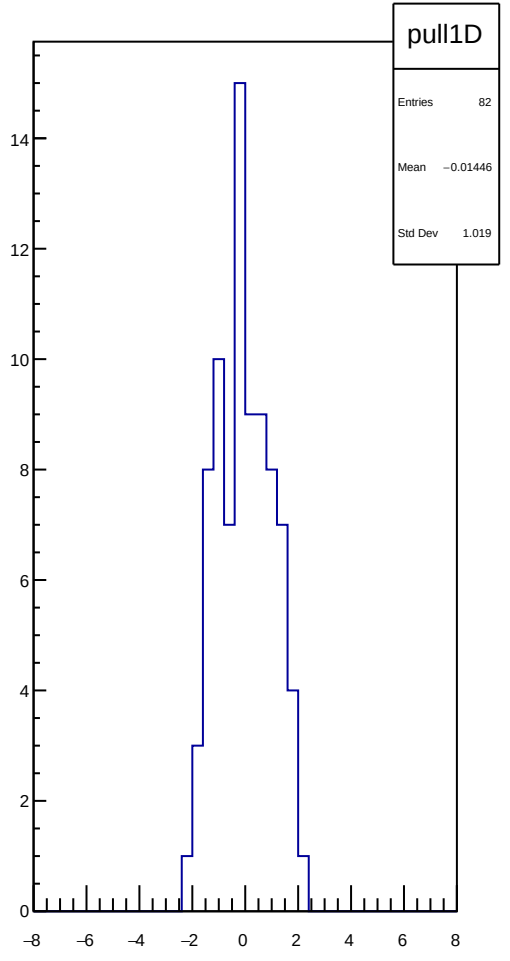

eigen_cor_asym_sam7_rms vs run
χ² / ndf 2.55e+04 / 81
p0 102.5 ± 0.08089
180
160
140
120
100
80

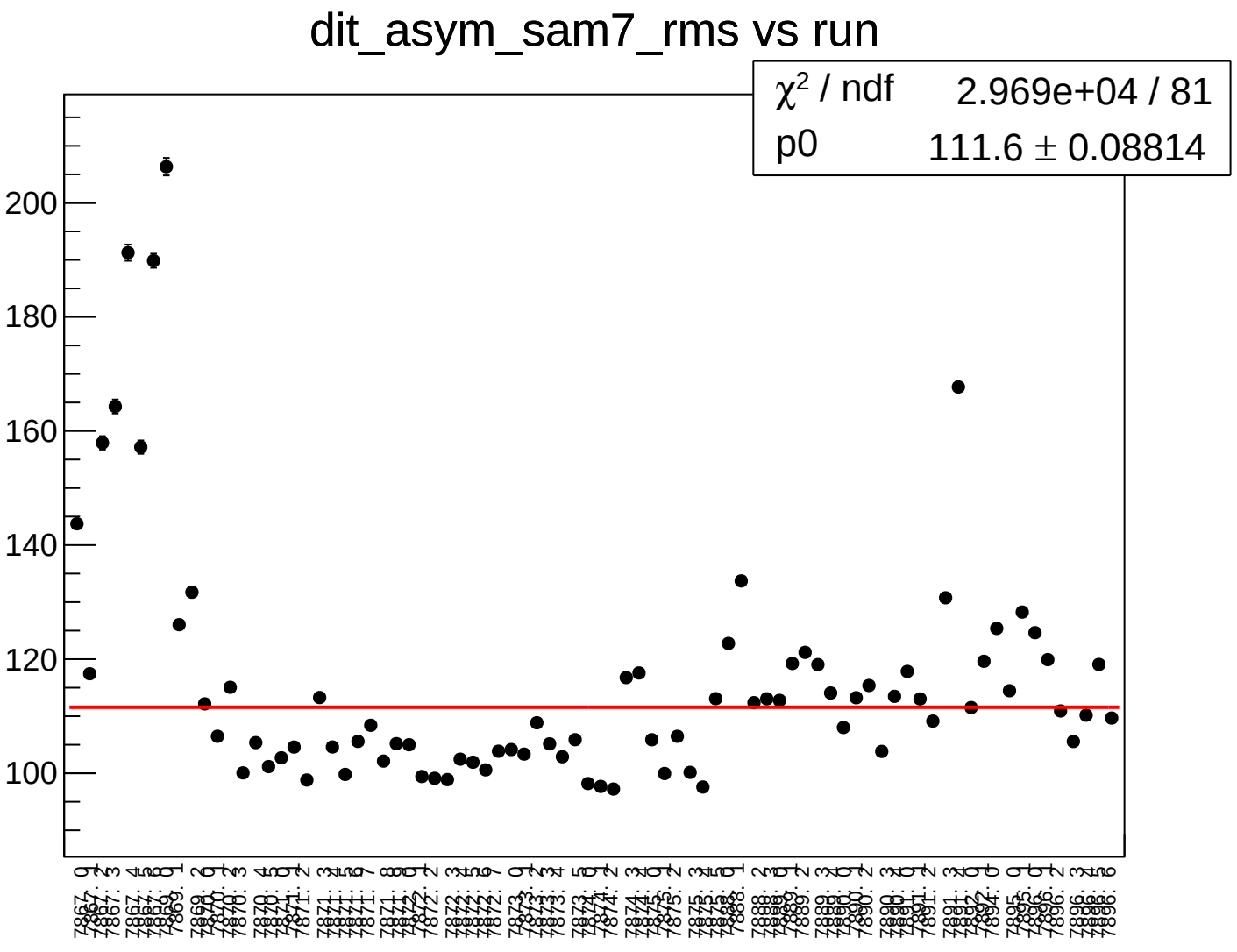

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 69.02 / 81
p0 −279.9 ± 1234
pull
Entries 82
Mean −53.14
Std Dev 0

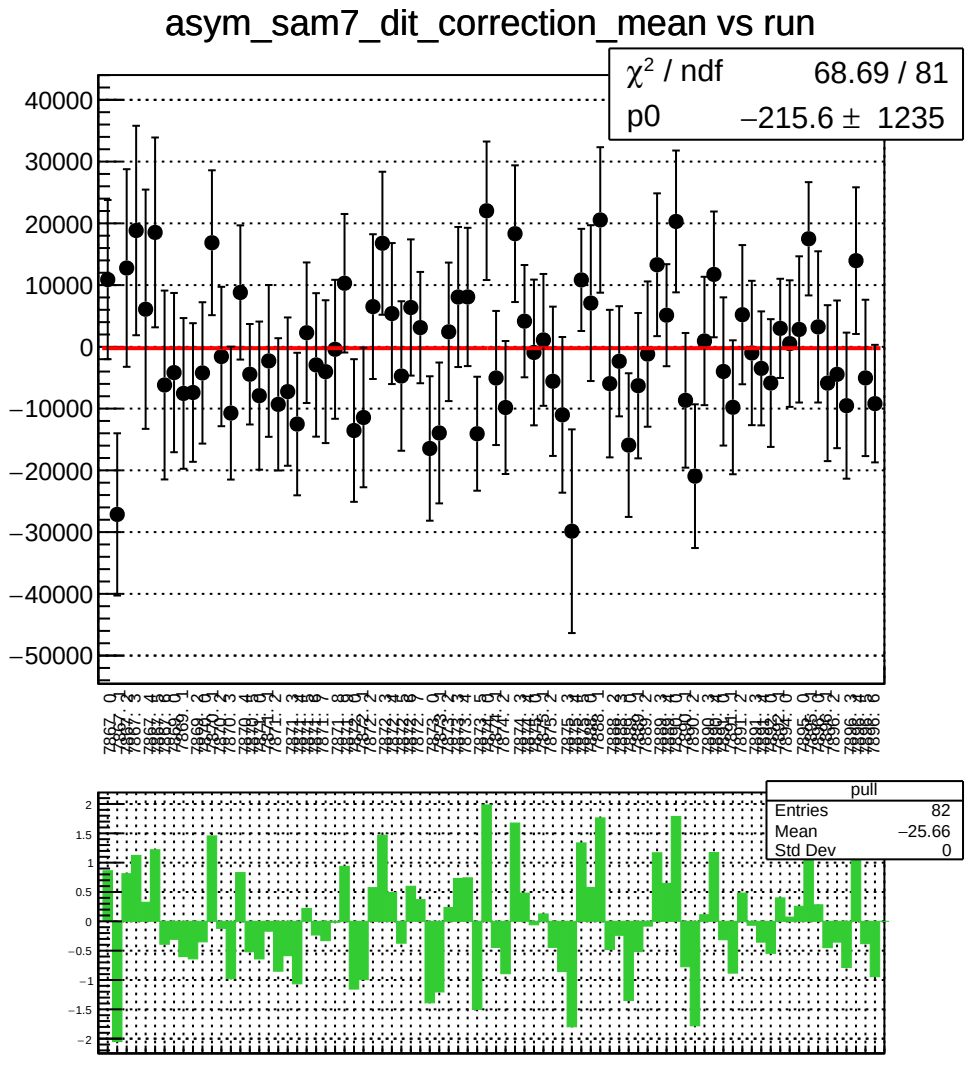

pull1D
Entries 82
Mean −0.009157
Std Dev 0.9174

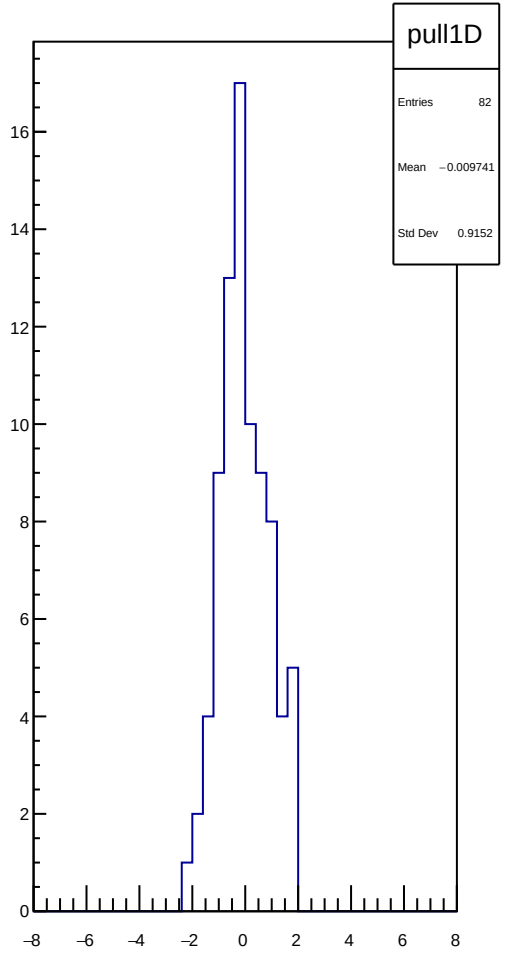

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.412e+04 / 81
p0 1110 ± 0.8729
1800
1700
1600
1500
1400
1300
1200
1100
1000

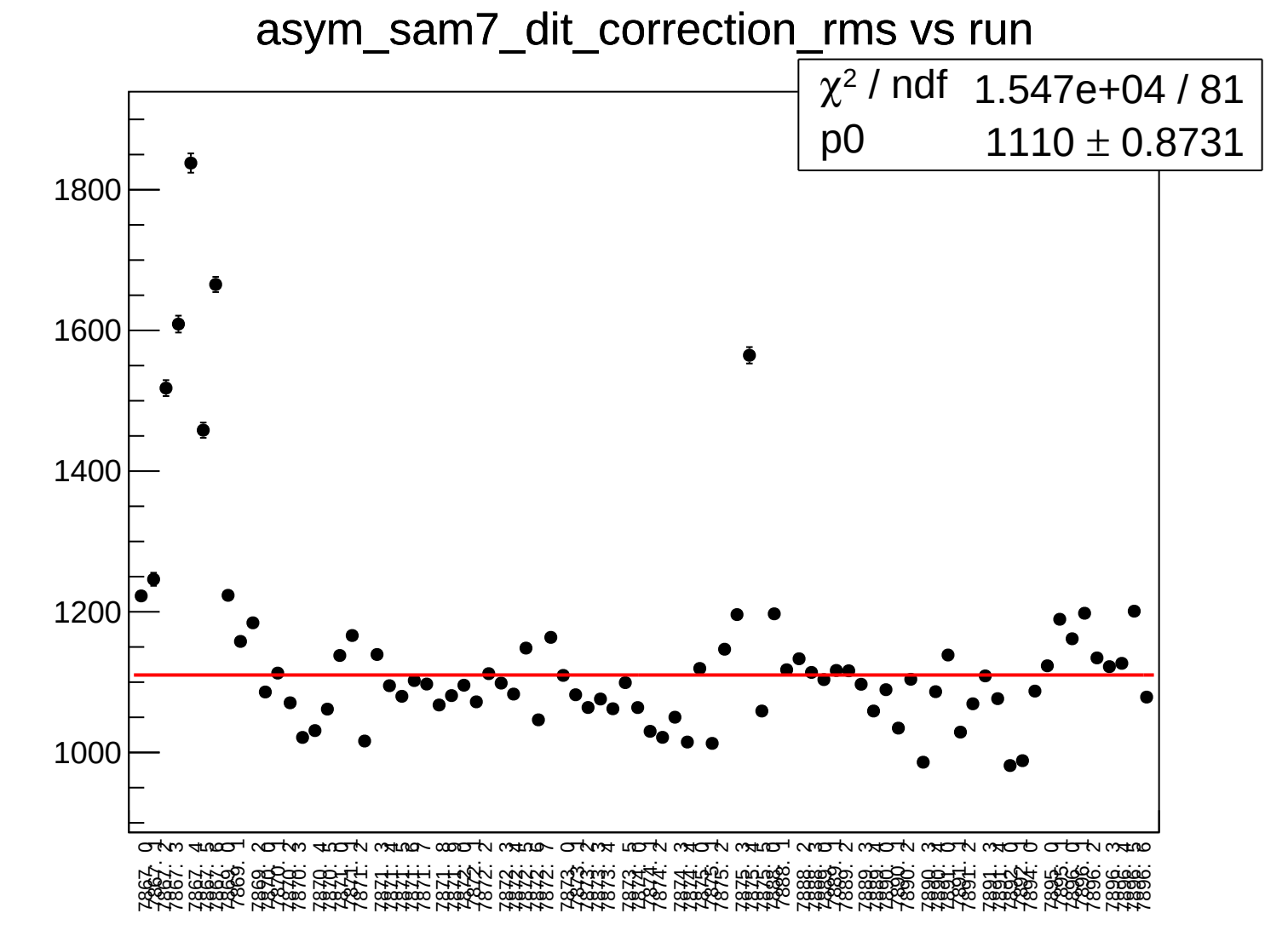

dit_asym_sam7_mean vs run
χ² / ndf 85.12 / 81
p0 317.8 ± 124.6
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −37.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

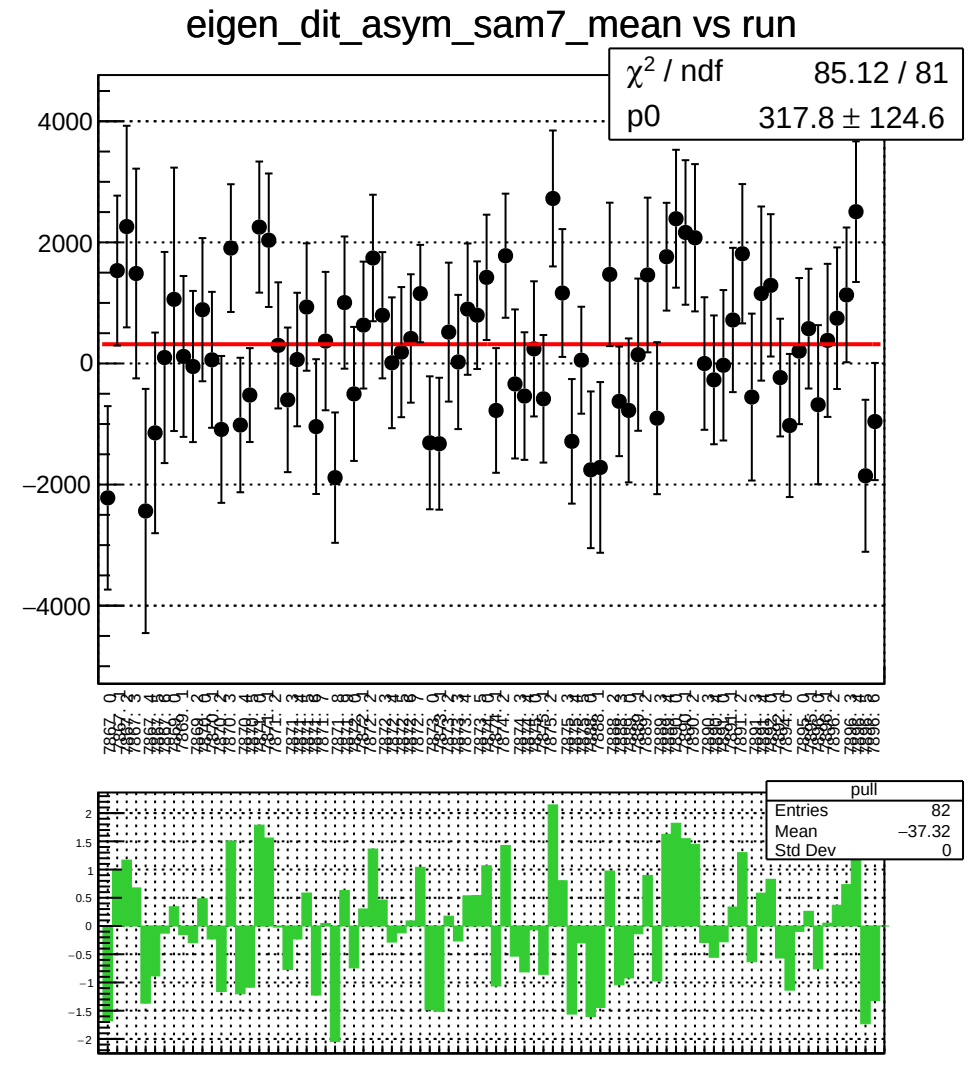

pull1D
Entries 82
Mean −0.01446
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

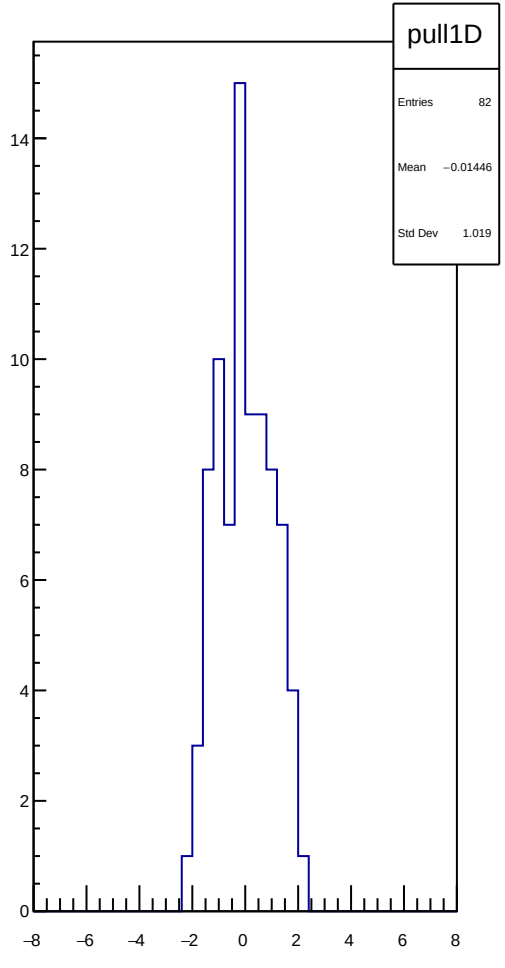

dit_asym_sam7_rms vs run
χ² / ndf 2.969e+04 / 81
p0 111.6 ± 0.08814
200
180
160
140
120
100

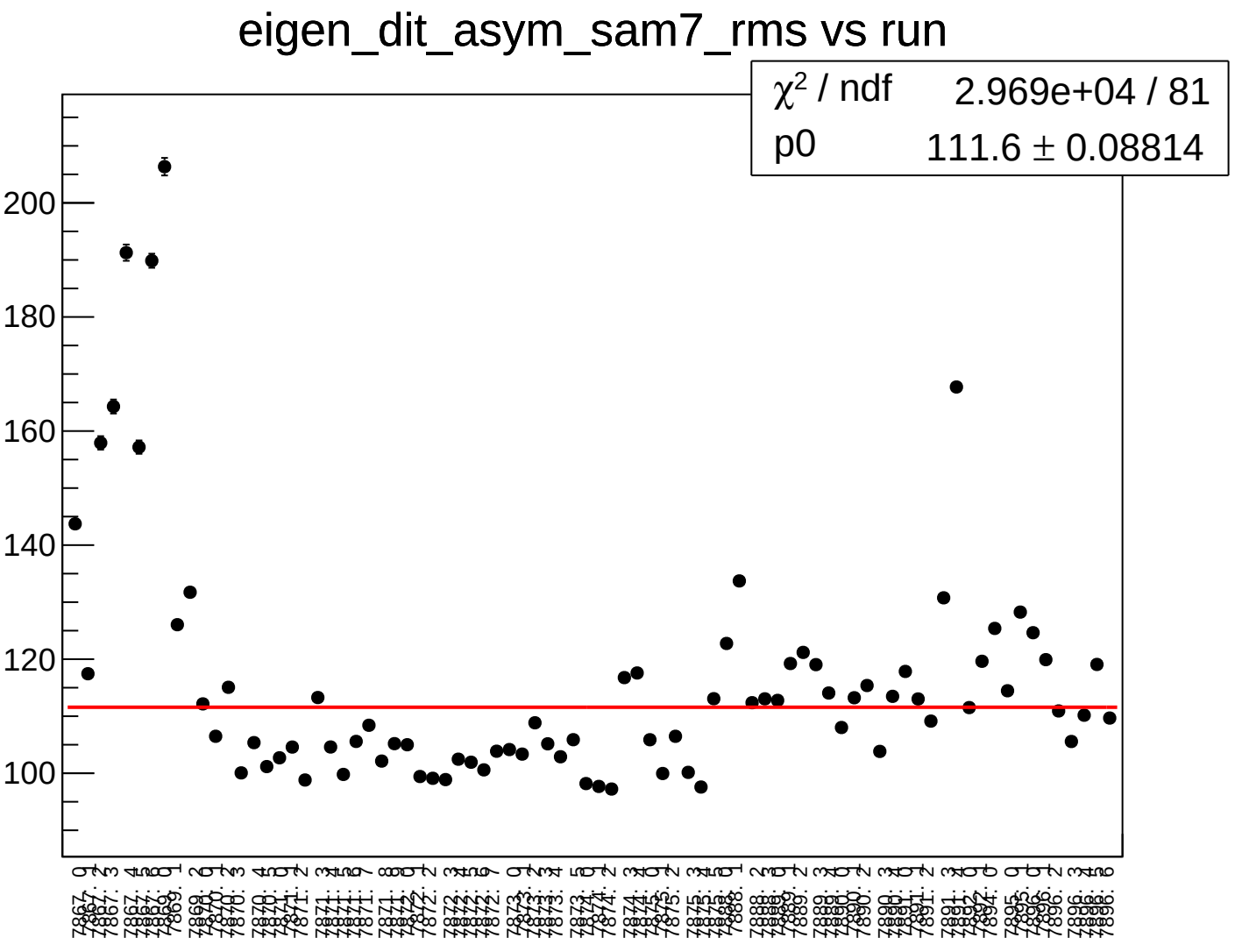

asym_sam7_dit_correction_mean vs run
χ² / ndf 68.69 / 81
p0 −215.6 ± 1235
pull
Entries 82
Mean −25.66
Std Dev 0

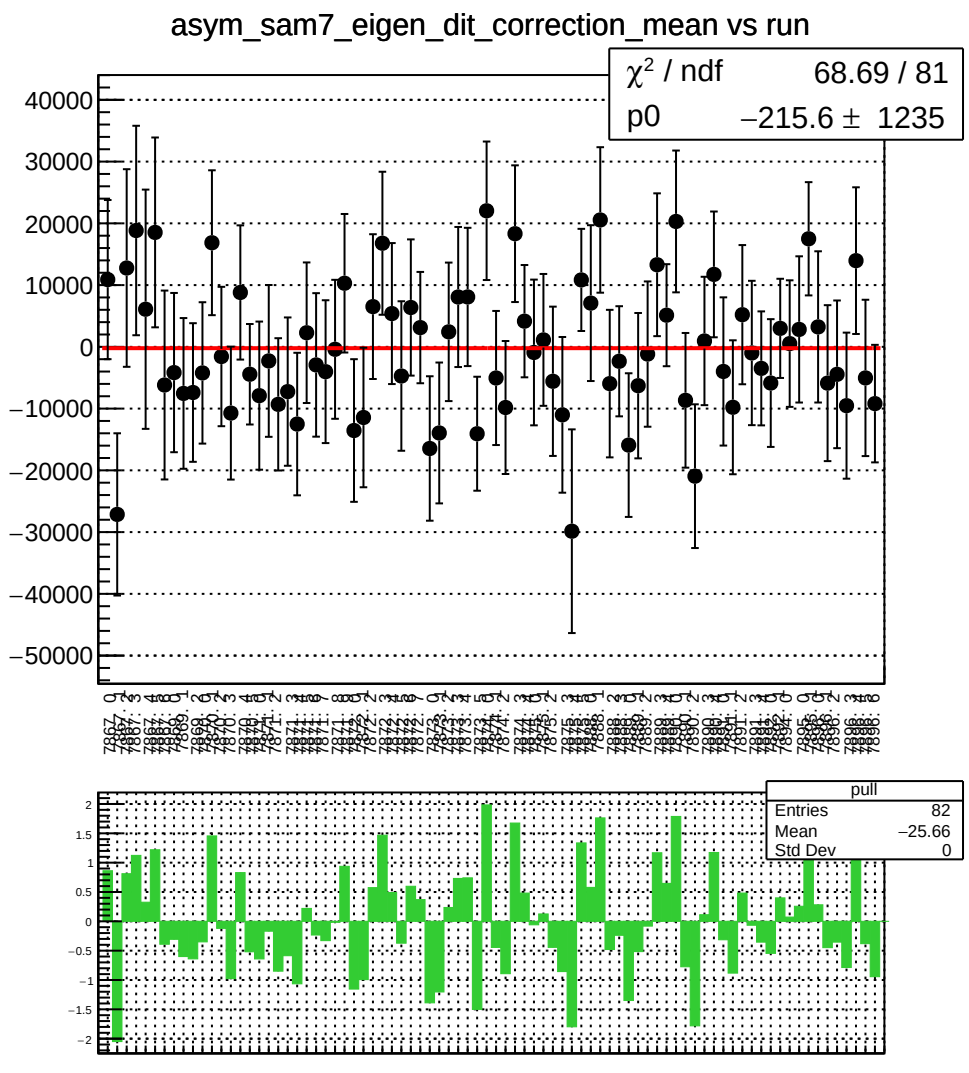

pull1D
Entries 82
Mean −0.009741
Std Dev 0.9152

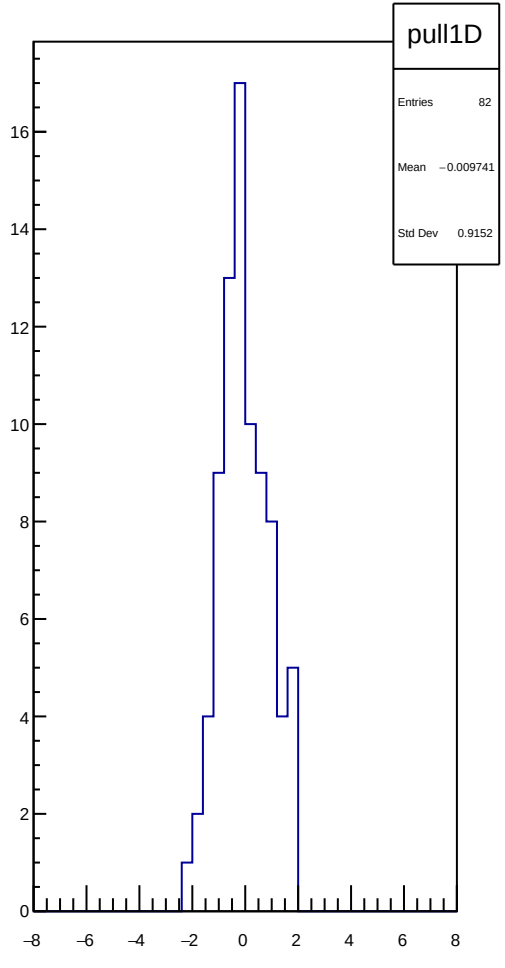

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.547e+04 / 81
p0 1110 ± 0.8731
1800
1600
1400
1200
1000

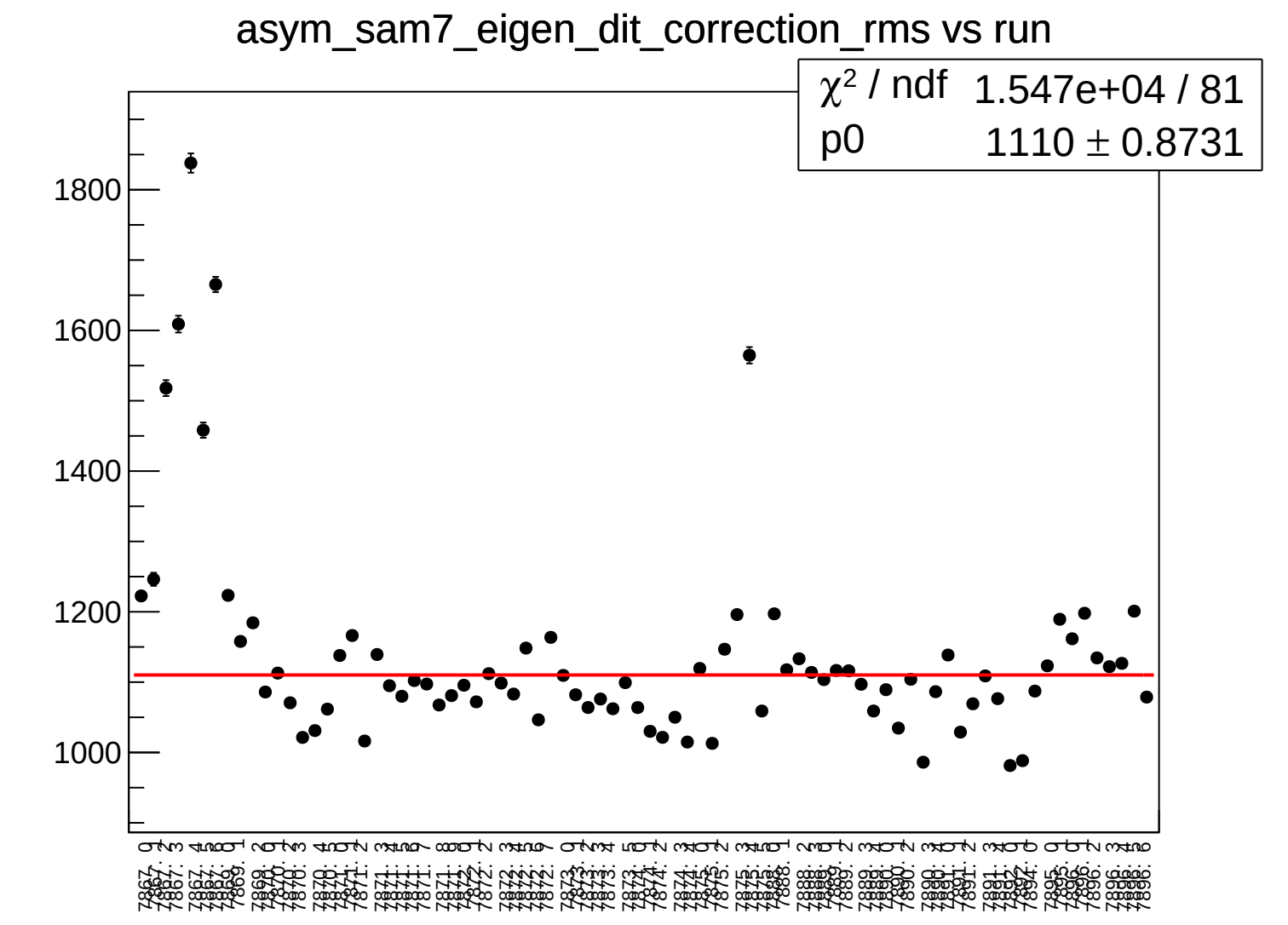

eigen_dit_asym_sam7_mean vs run
χ² / ndf 85.12 / 81
p0 317.8 ± 124.6
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −37.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

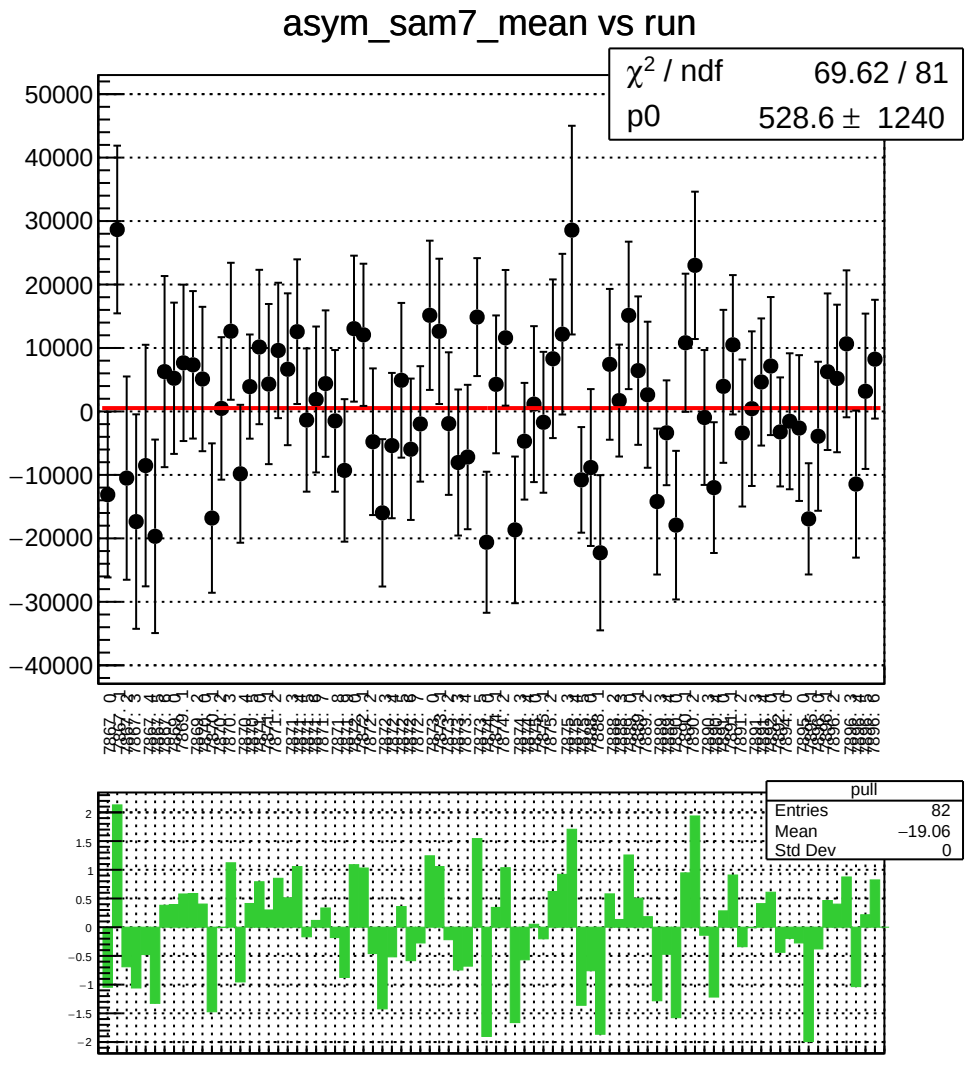

pull1D
Entries 82
Mean −0.01446
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

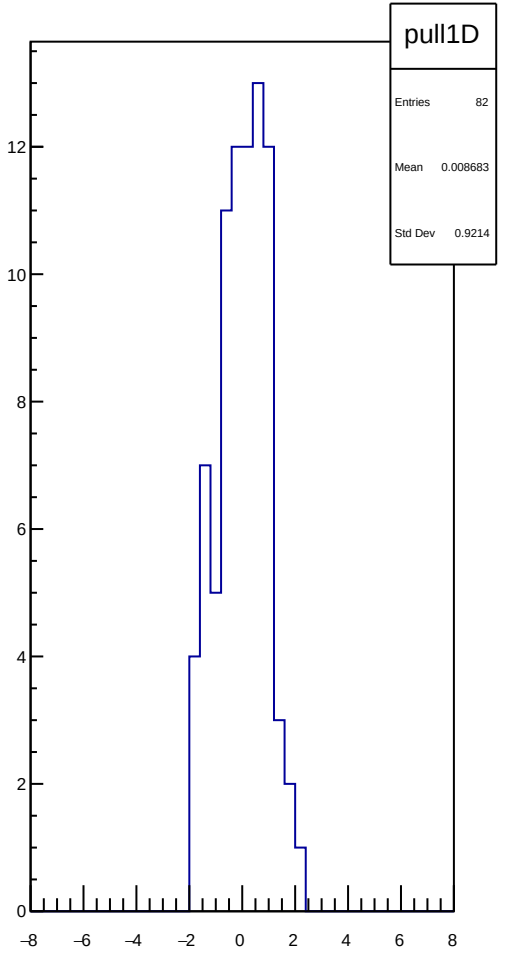

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 2.969e+04 / 81
p0 111.6 ± 0.08814
200
180
160
140
120
100

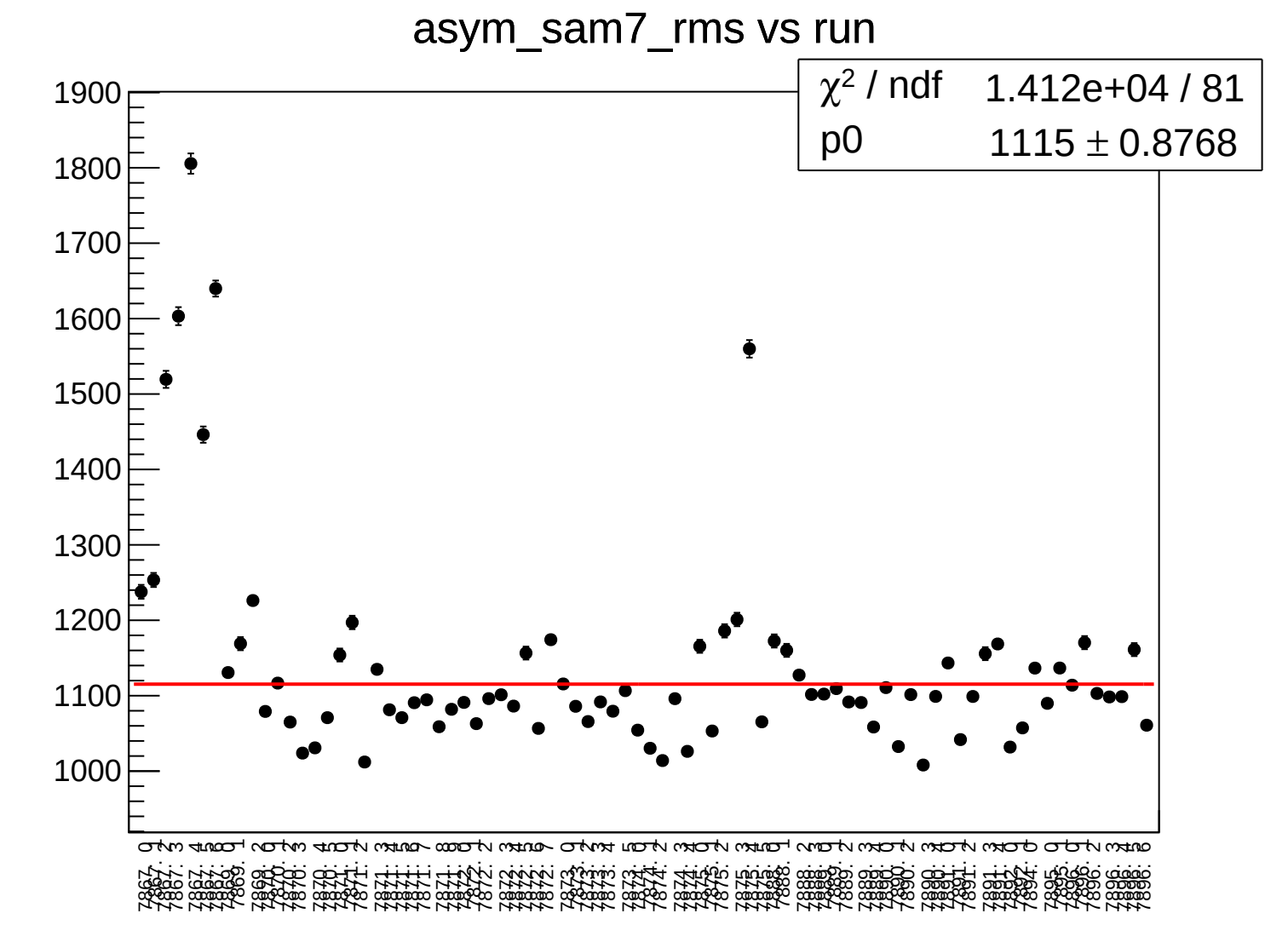

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 68.69 / 81
p0 −215.6 ± 1235
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 82
Mean −25.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

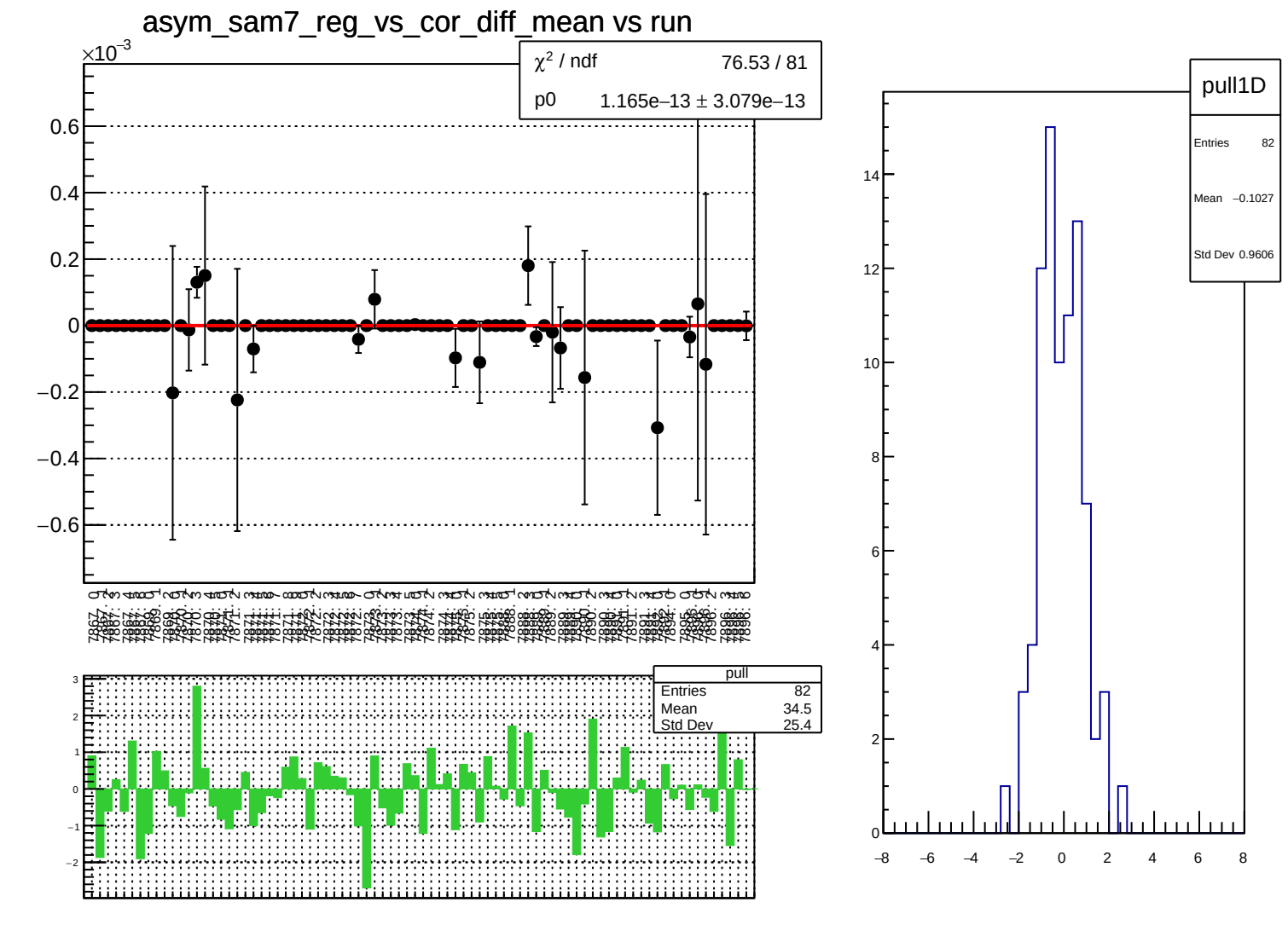

pull1D
Entries 82
Mean −0.009741
Std Dev 0.9152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

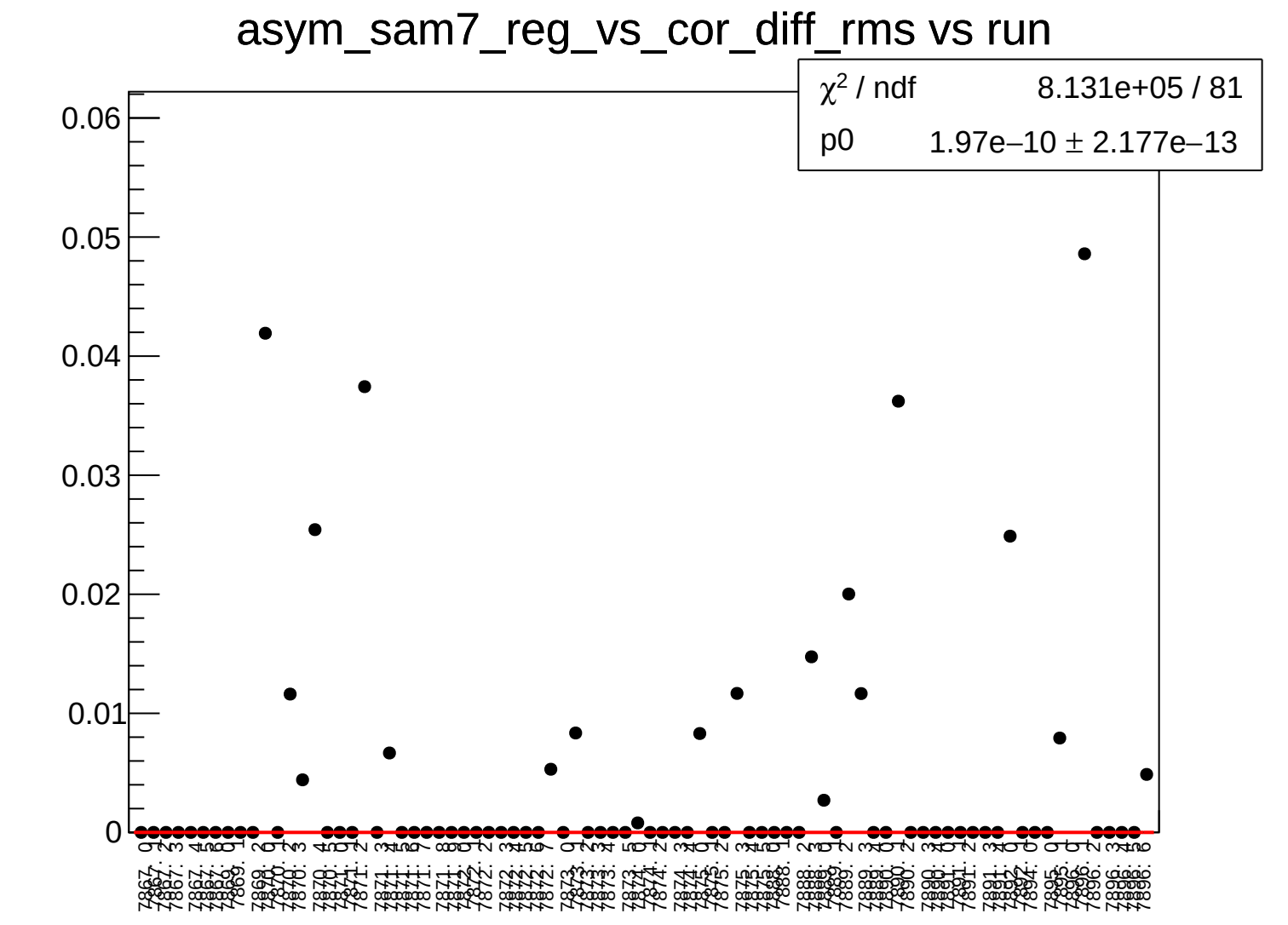

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.547e+04 / 81
p0 1110 ± 0.8731
1800
1600
1400
1200
1000

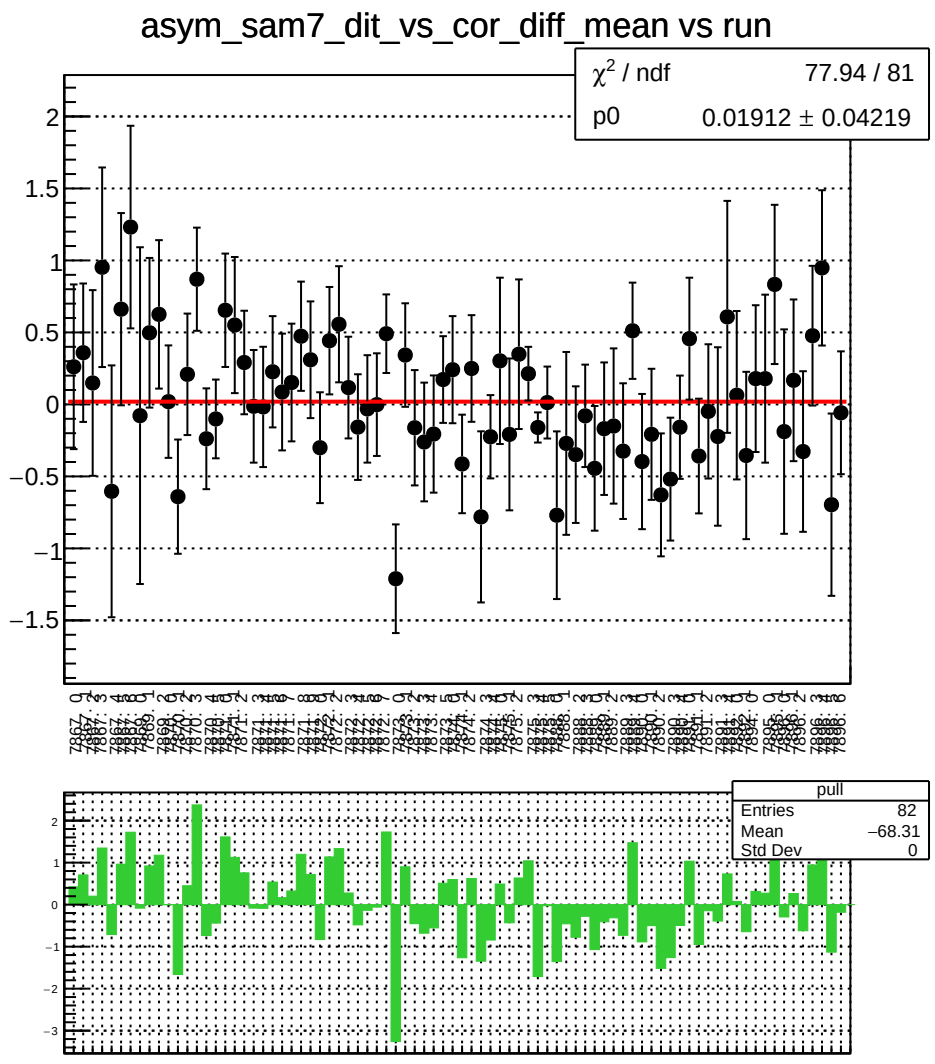

asym_sam7_mean vs run
χ² / ndf 69.62 / 81
p0 528.6 ± 1240
pull
Entries 82
Mean −19.06
Std Dev 0

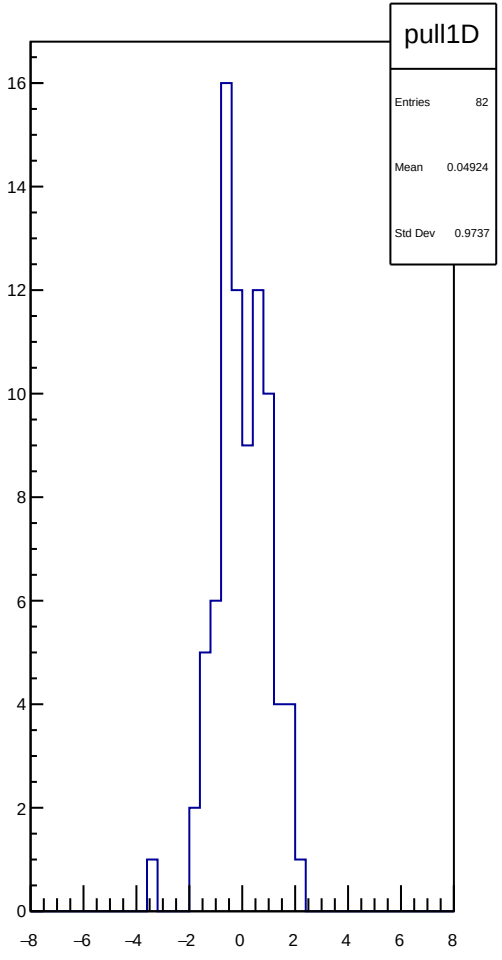

pull1D
Entries 82
Mean 0.008683
Std Dev 0.9214

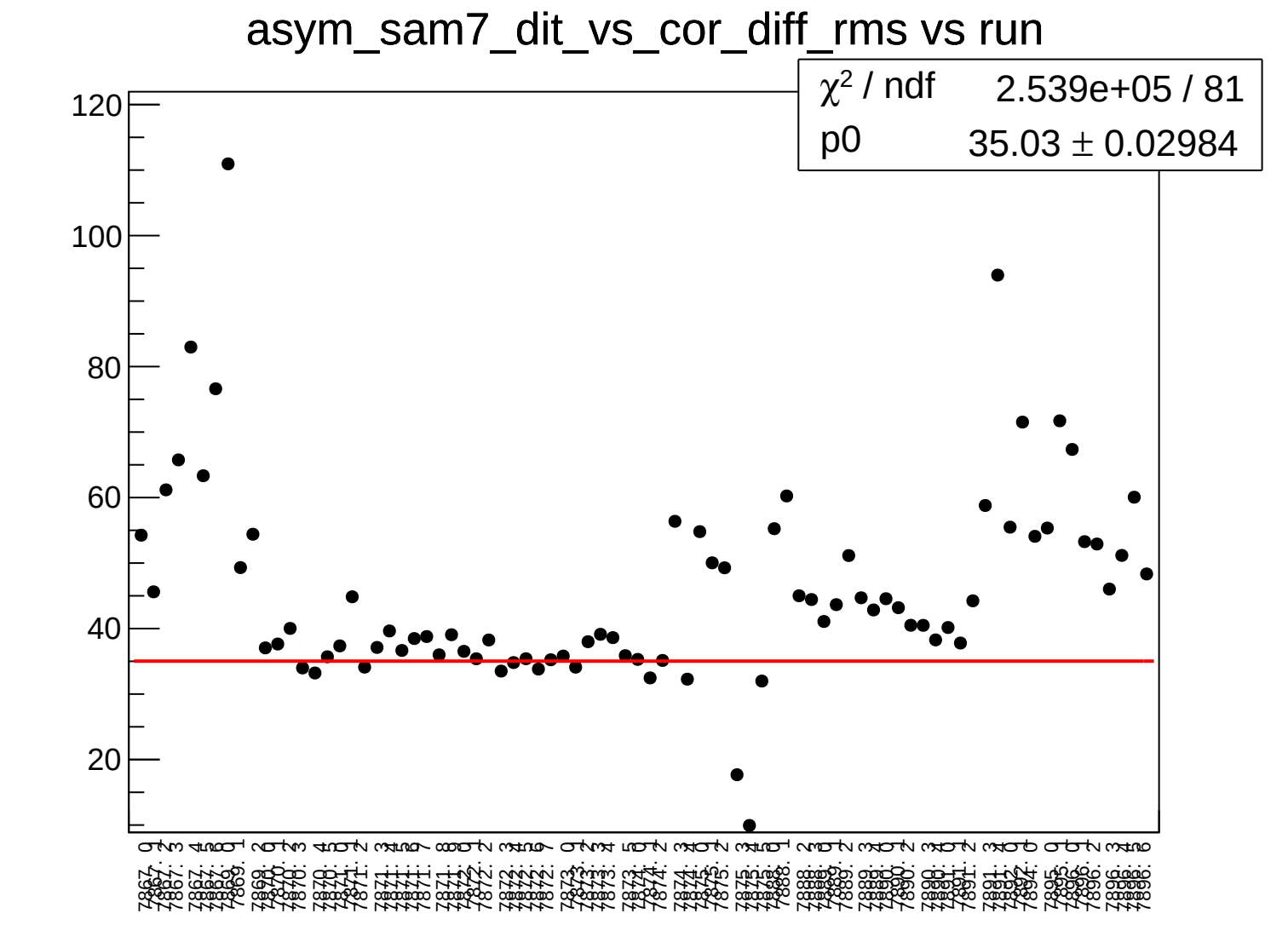

asym_sam7_rms vs run
χ² / ndf 1.412e+04 / 81
p0 1115 ± 0.8768
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

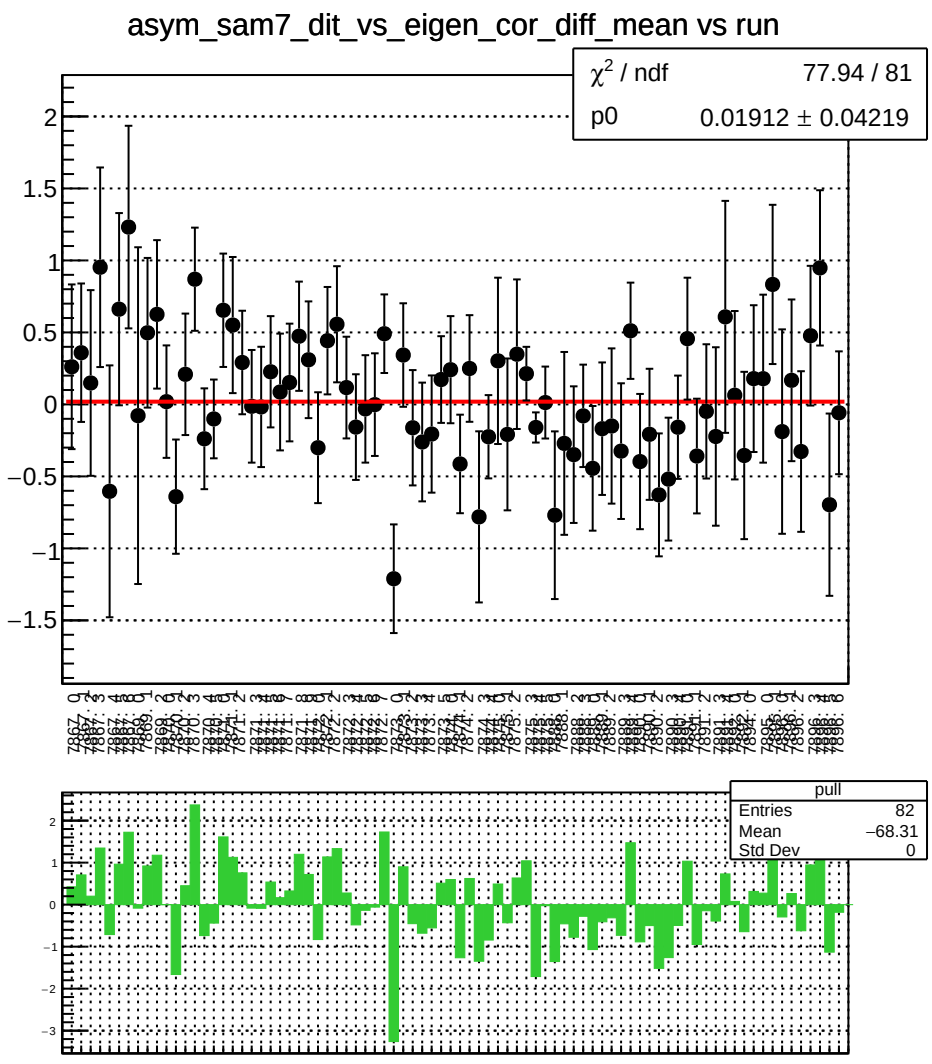

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 81
p0 1.165e−13 ± 3.079e−13
×10⁻³
pull
Entries 82
Mean 34.5
Std Dev 25.4
pull1D
Entries 82
Mean −0.1027
Std Dev 0.9606

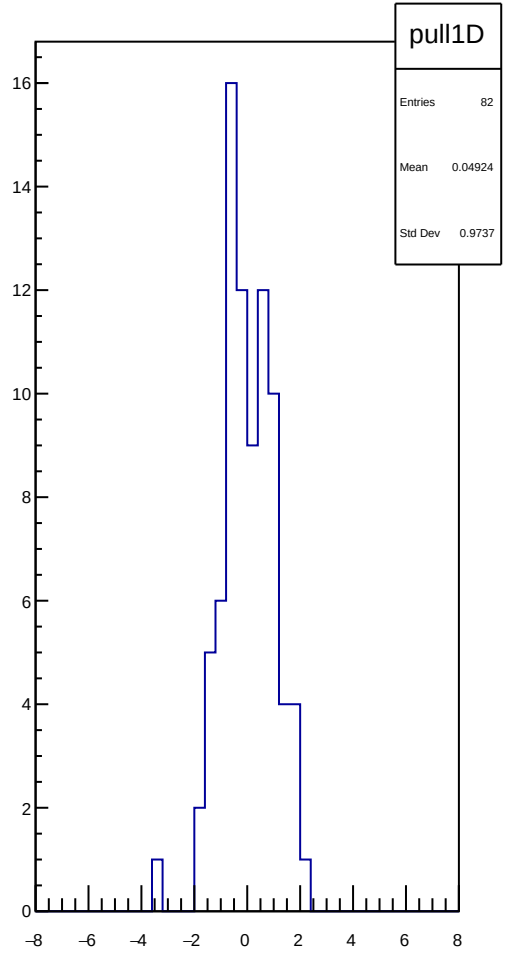

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 8.131e+05 / 81
p0 1.97e−10 ± 2.177e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

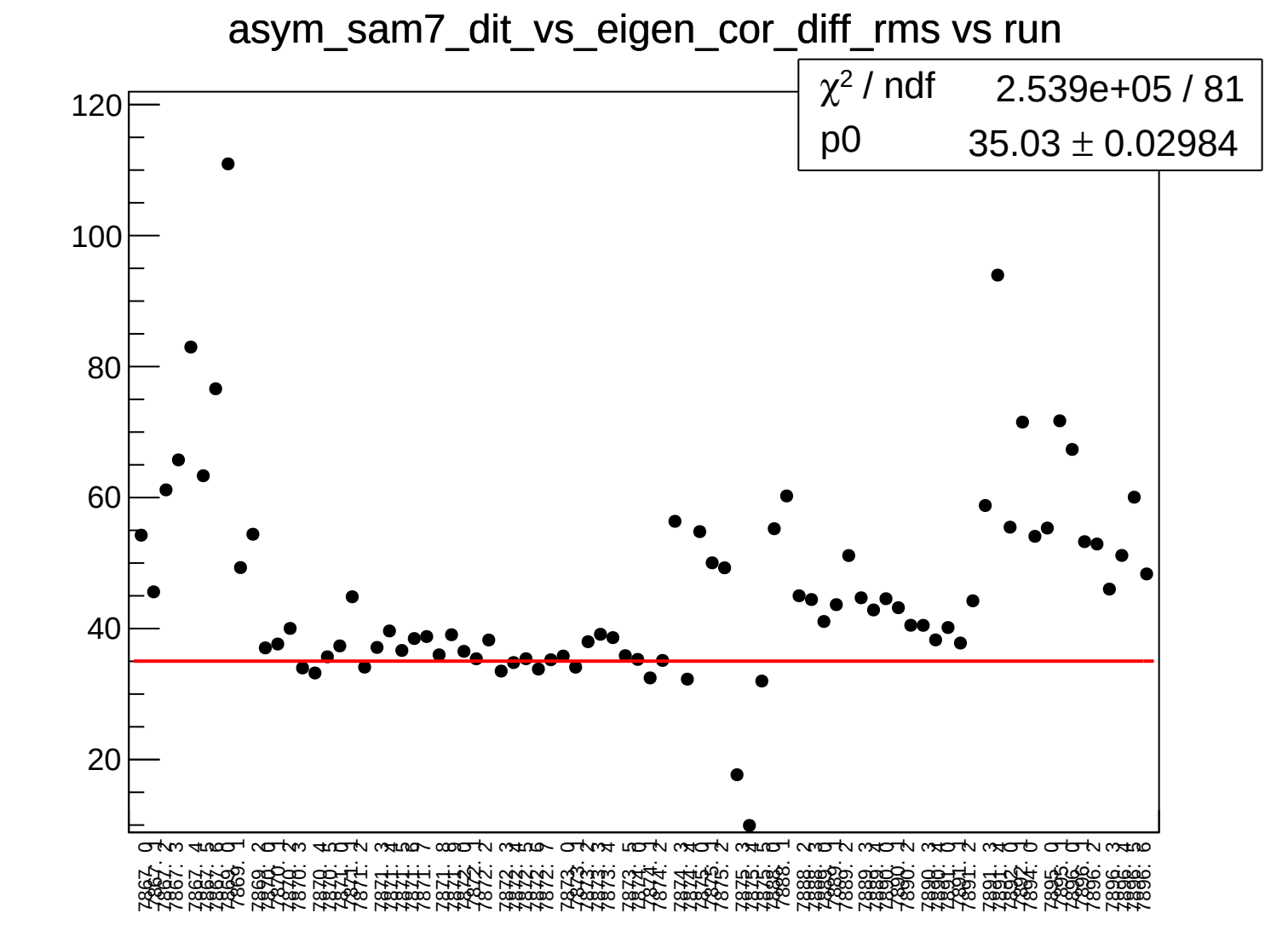

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 77.94 / 81
p0 0.01912 ± 0.04219
pull
Entries 82
Mean −68.31
Std Dev 0

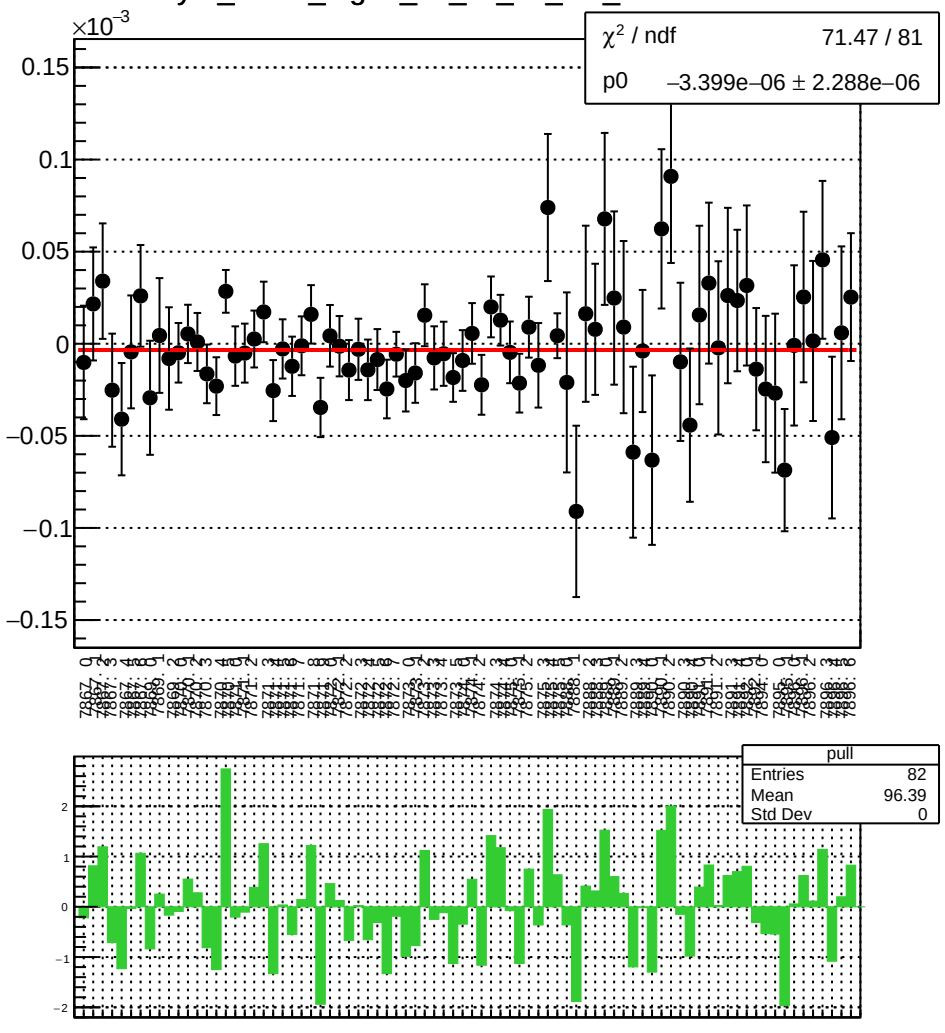

pull1D
Entries 82
Mean 0.04924
Std Dev 0.9737

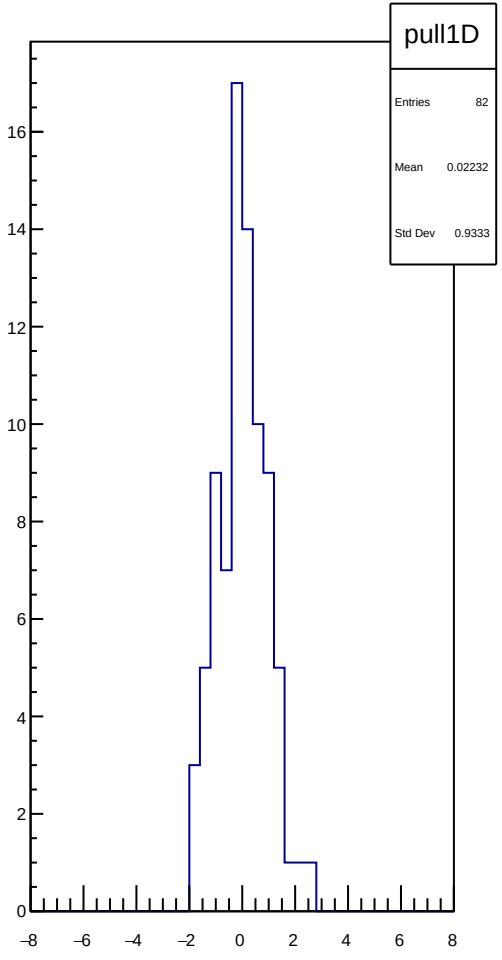

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 2.539e+05 / 81
p0 35.03 ± 0.02984
120
100
80
60
40
20

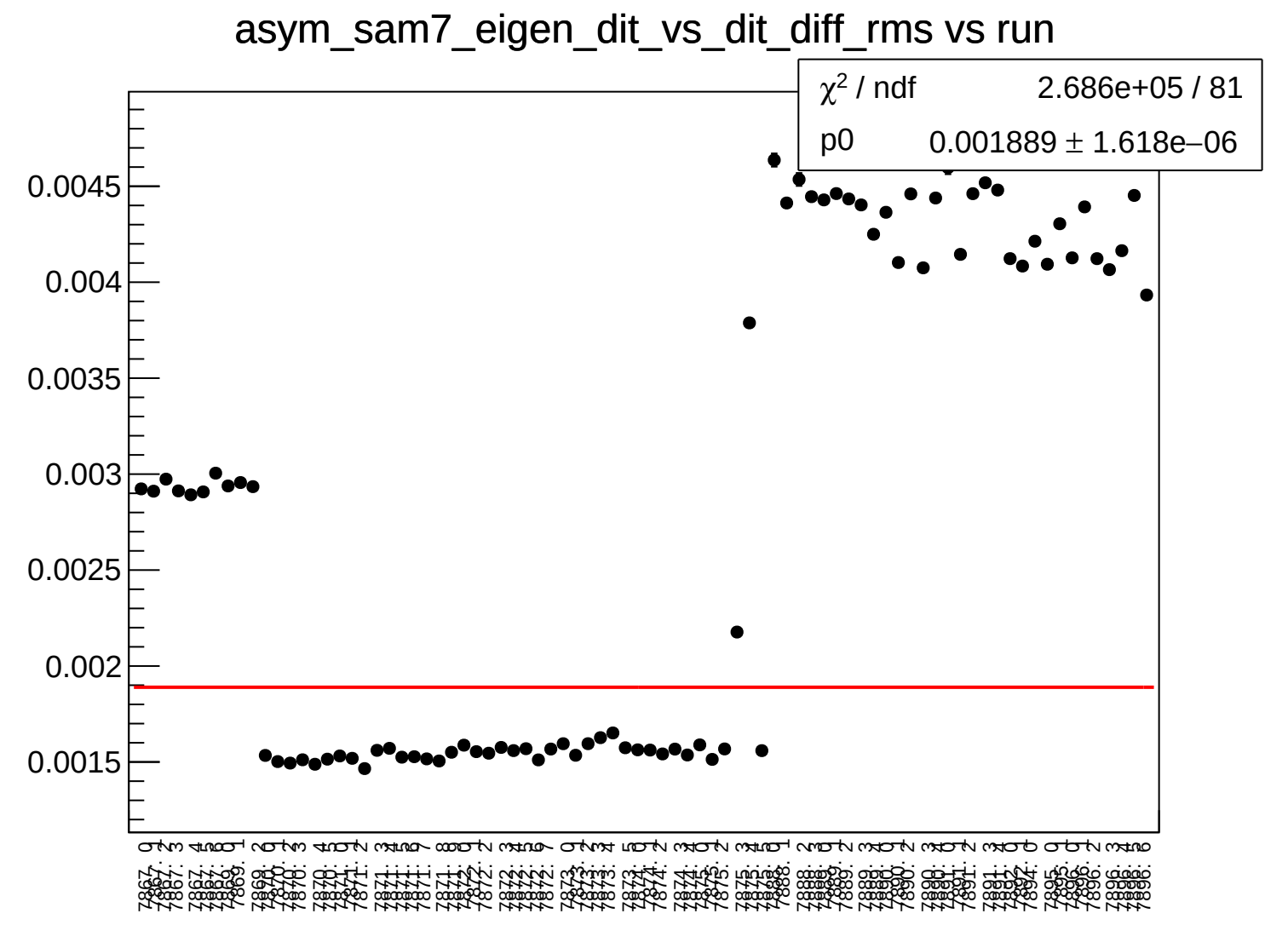

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.94 / 81
p0 0.01912 ± 0.04219
pull
Entries 82
Mean −68.31
Std Dev 0

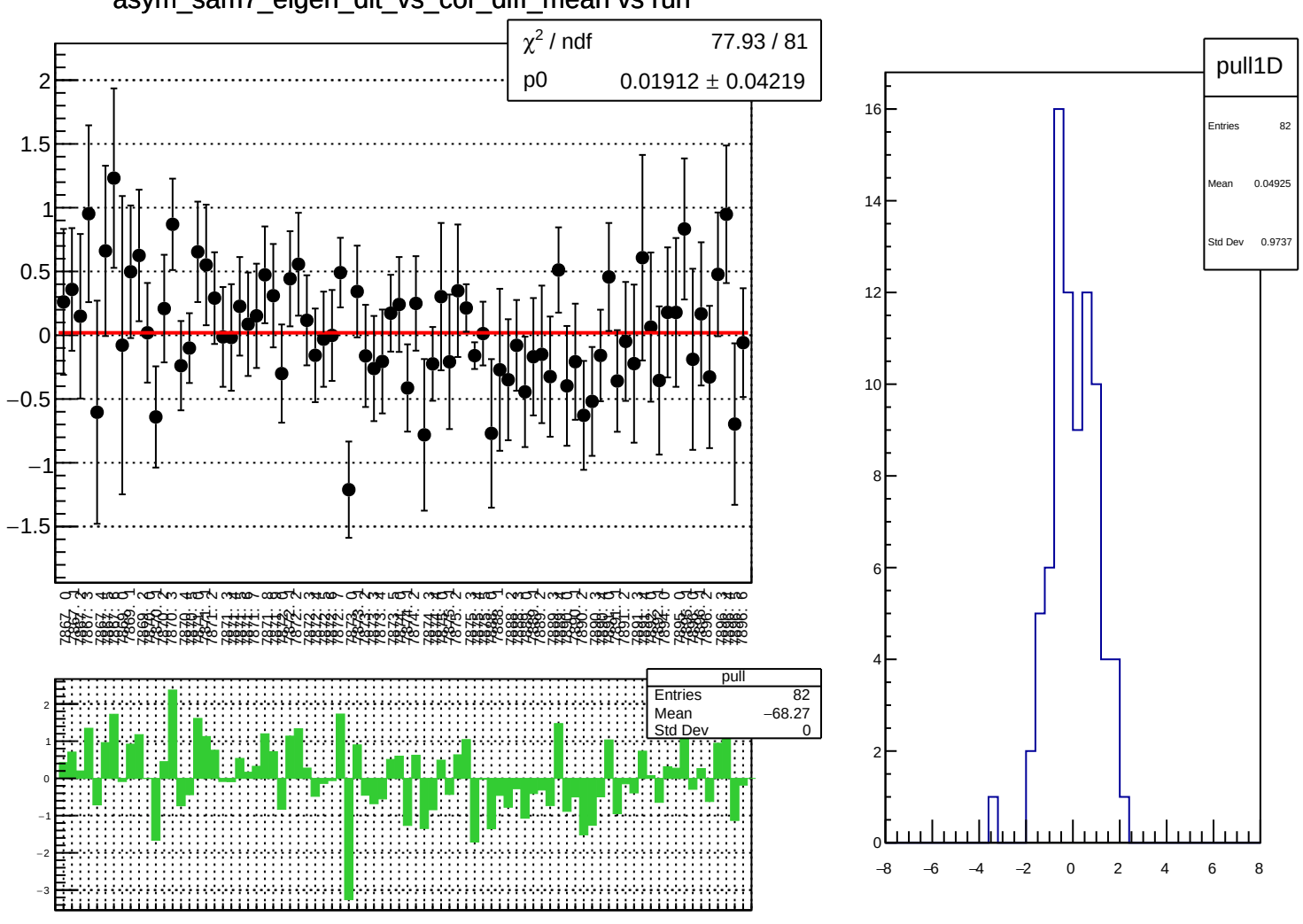

pull1D
Entries 82
Mean 0.04924
Std Dev 0.9737

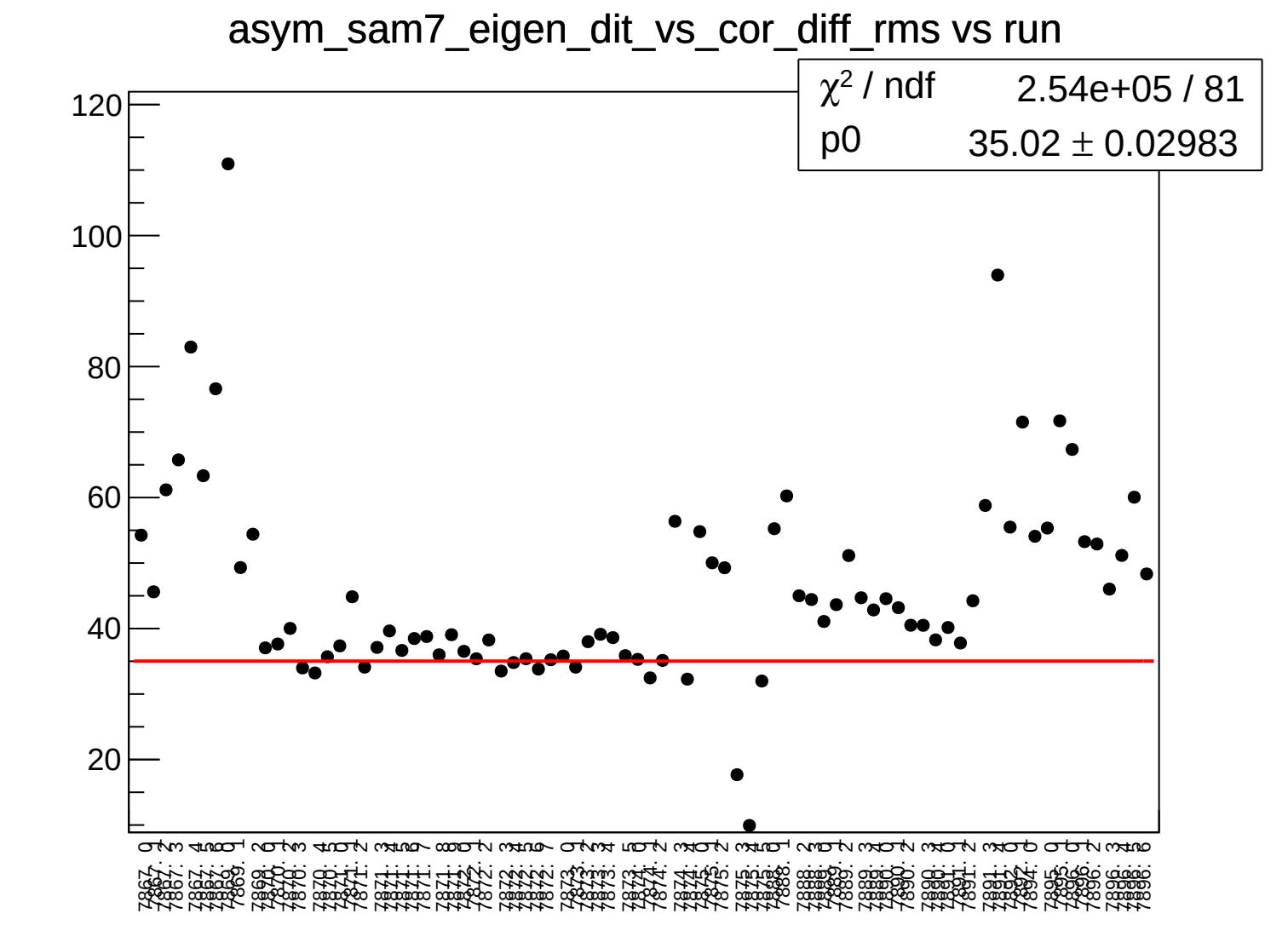

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.539e+05 / 81
p0 35.03 ± 0.02984
120
100
80
60
40
20

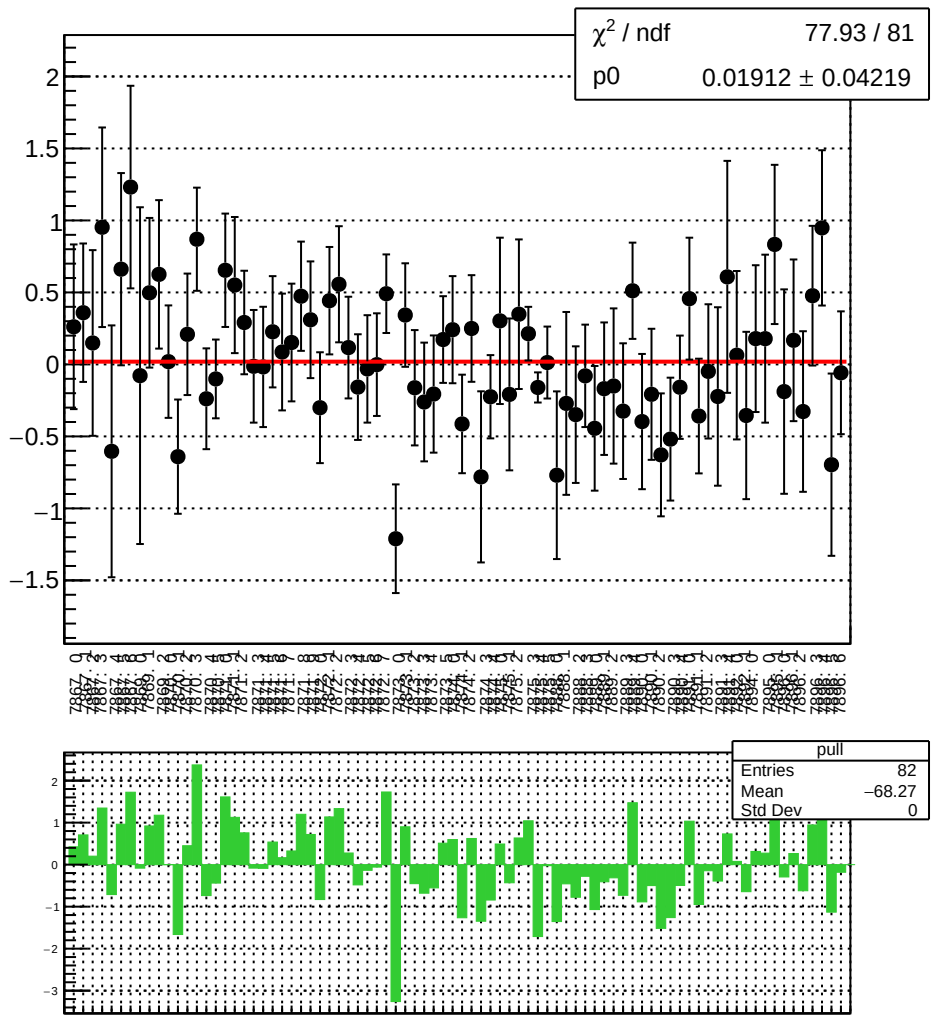

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.47 / 81
p0 −3.399e−06 ± 2.288e−06
pull
Entries 82
Mean 96.39
Std Dev 0

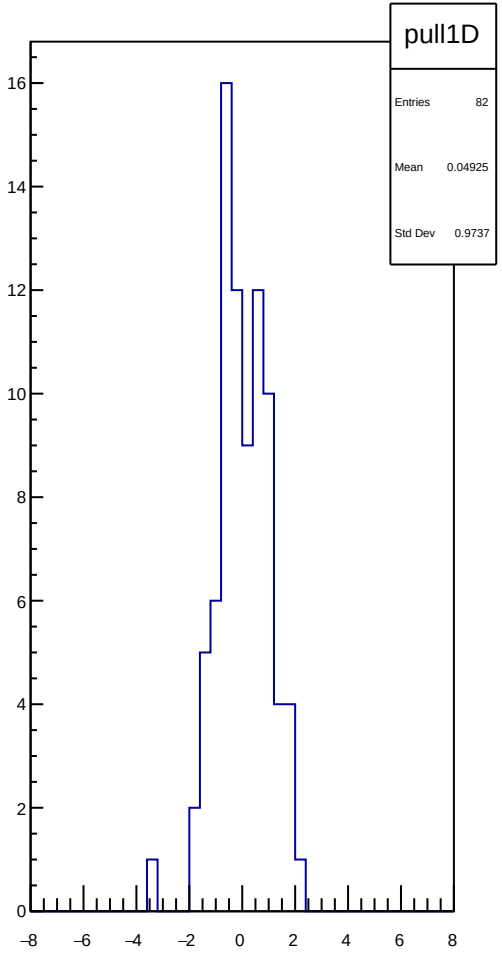

pull1D
Entries 82
Mean 0.02232
Std Dev 0.9333

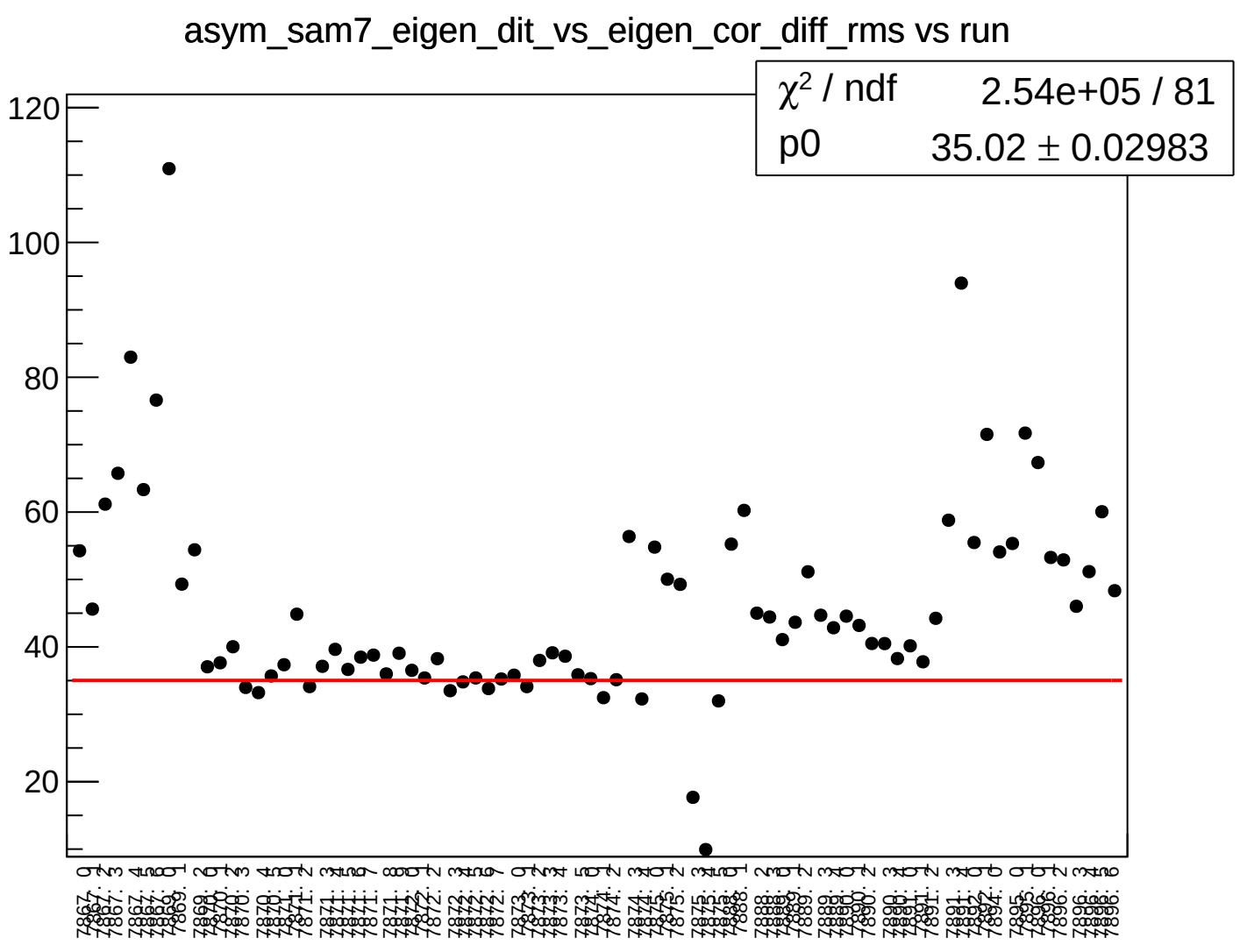

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.686e+05 / 81
p0 0.001889 ± 1.618e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

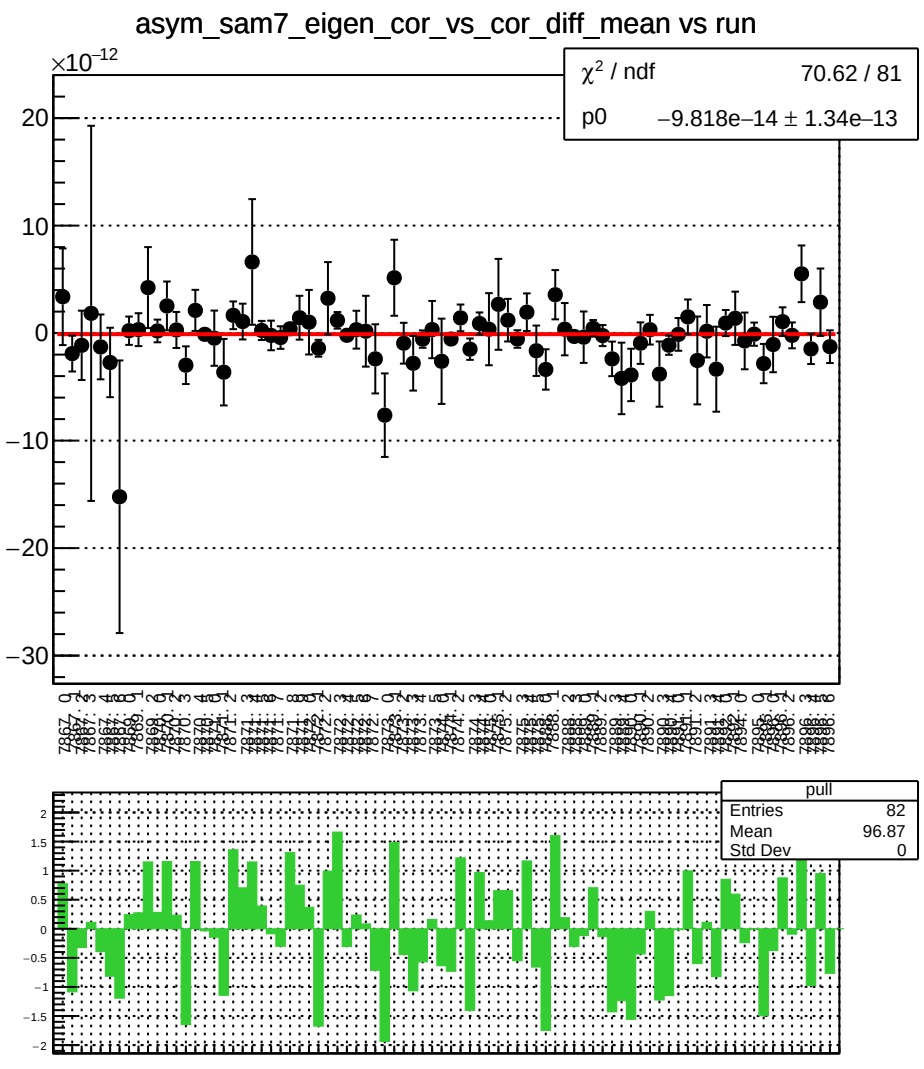

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.93 / 81
p0 0.01912 ± 0.04219
pull
Entries 82
Mean −68.27
Std Dev 0
pull1D
Entries 82
Mean 0.04925
Std Dev 0.9737

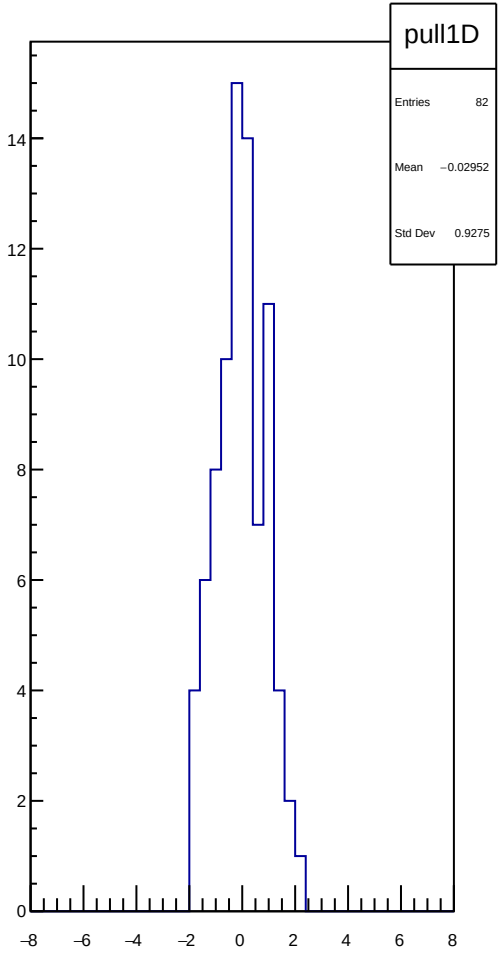

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.54e+05 / 81
p0 35.02 ± 0.02983
120
100
80
60
40
20

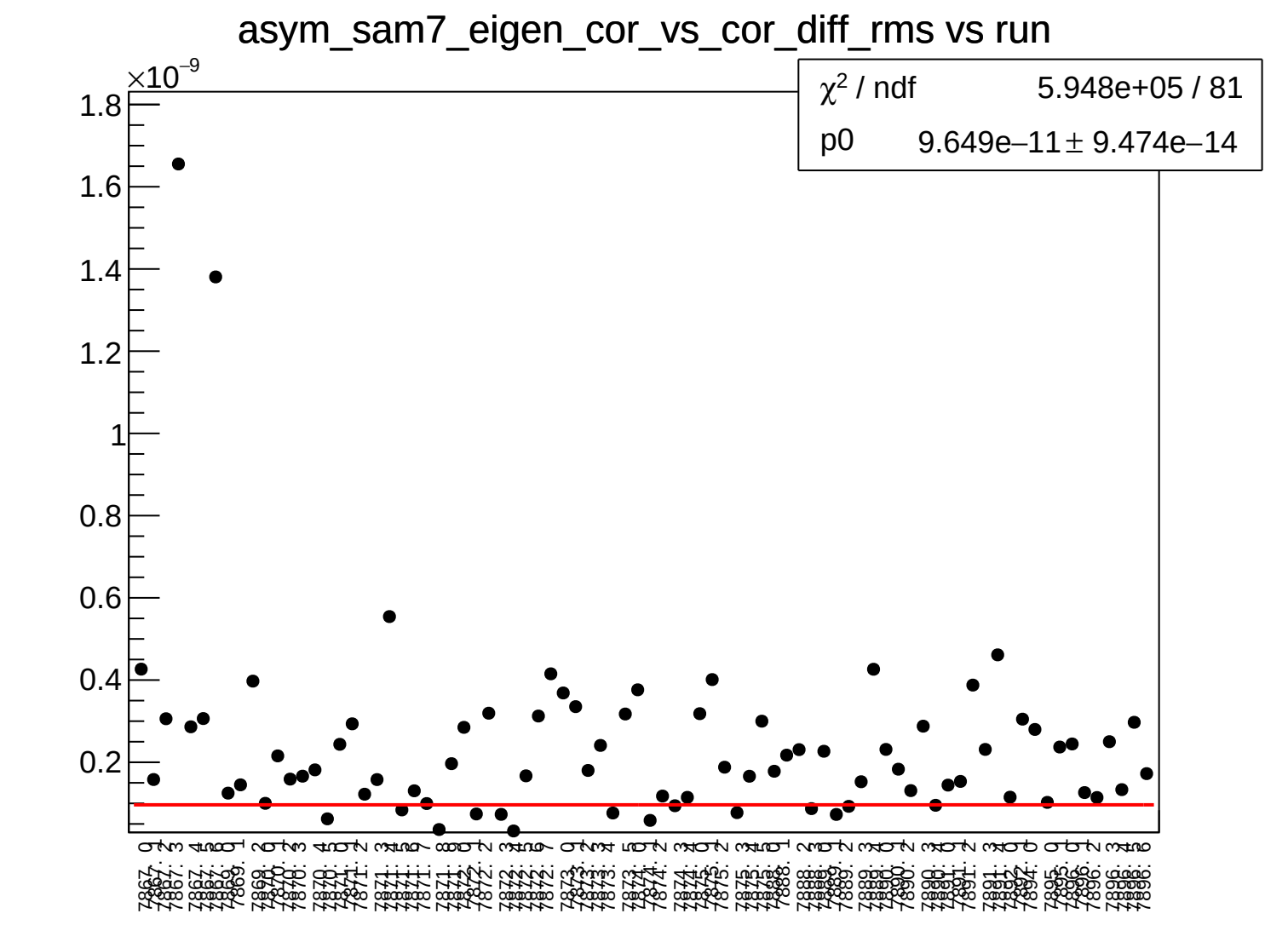

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.93 / 81
p0 0.01912 ± 0.04219
pull
Entries 82
Mean −68.27
Std Dev 0

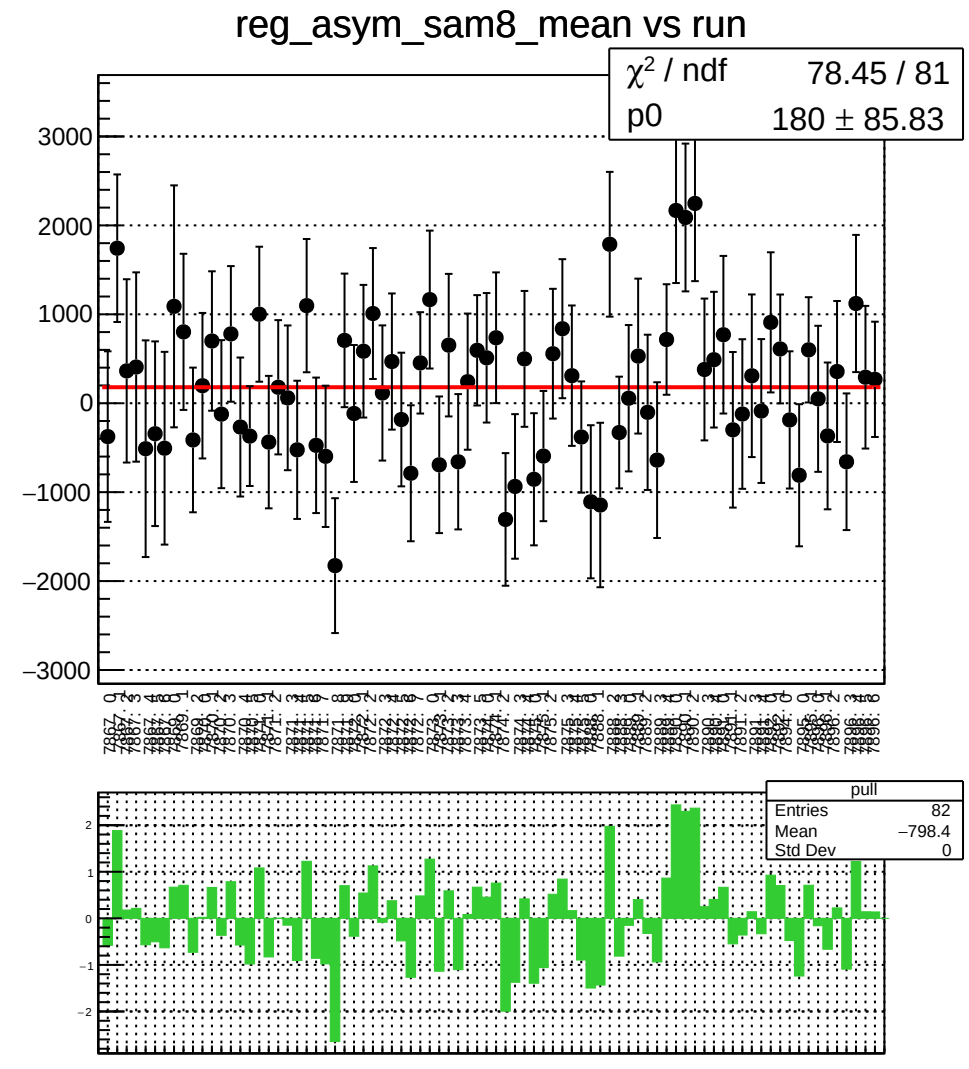

pull1D
Entries 82
Mean 0.04925
Std Dev 0.9737

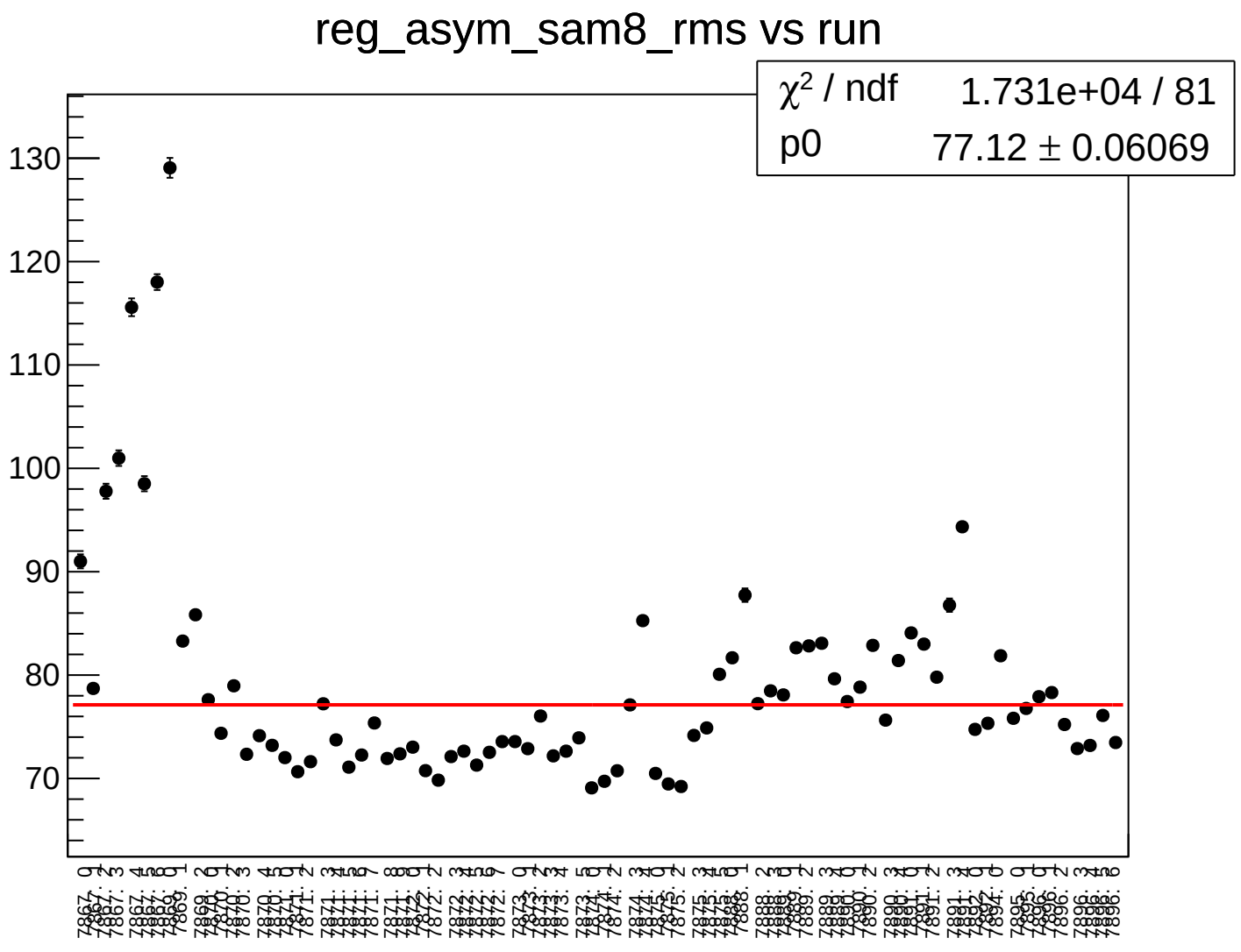

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.54e+05 / 81
p0 35.02 ± 0.02983
120
100
80
60
40
20

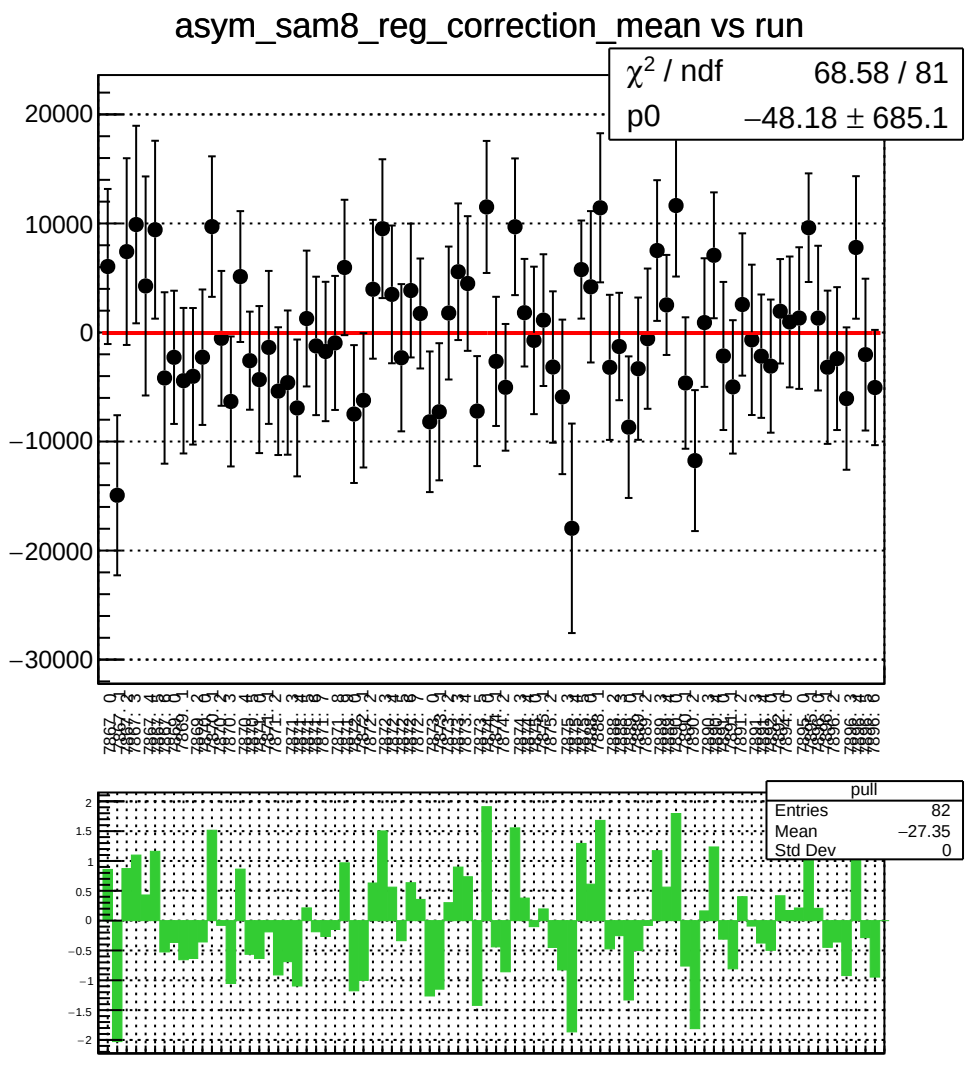

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.62 / 81
p0 −9.818e−14 ± 1.34e−13
pull
Entries 82
Mean 96.87
Std Dev 0

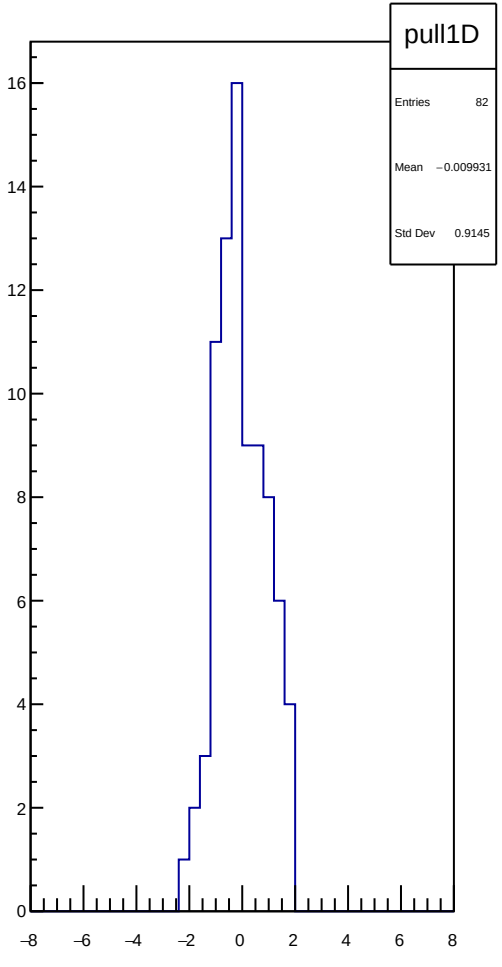

pull1D
Entries 82
Mean −0.02952
Std Dev 0.9275

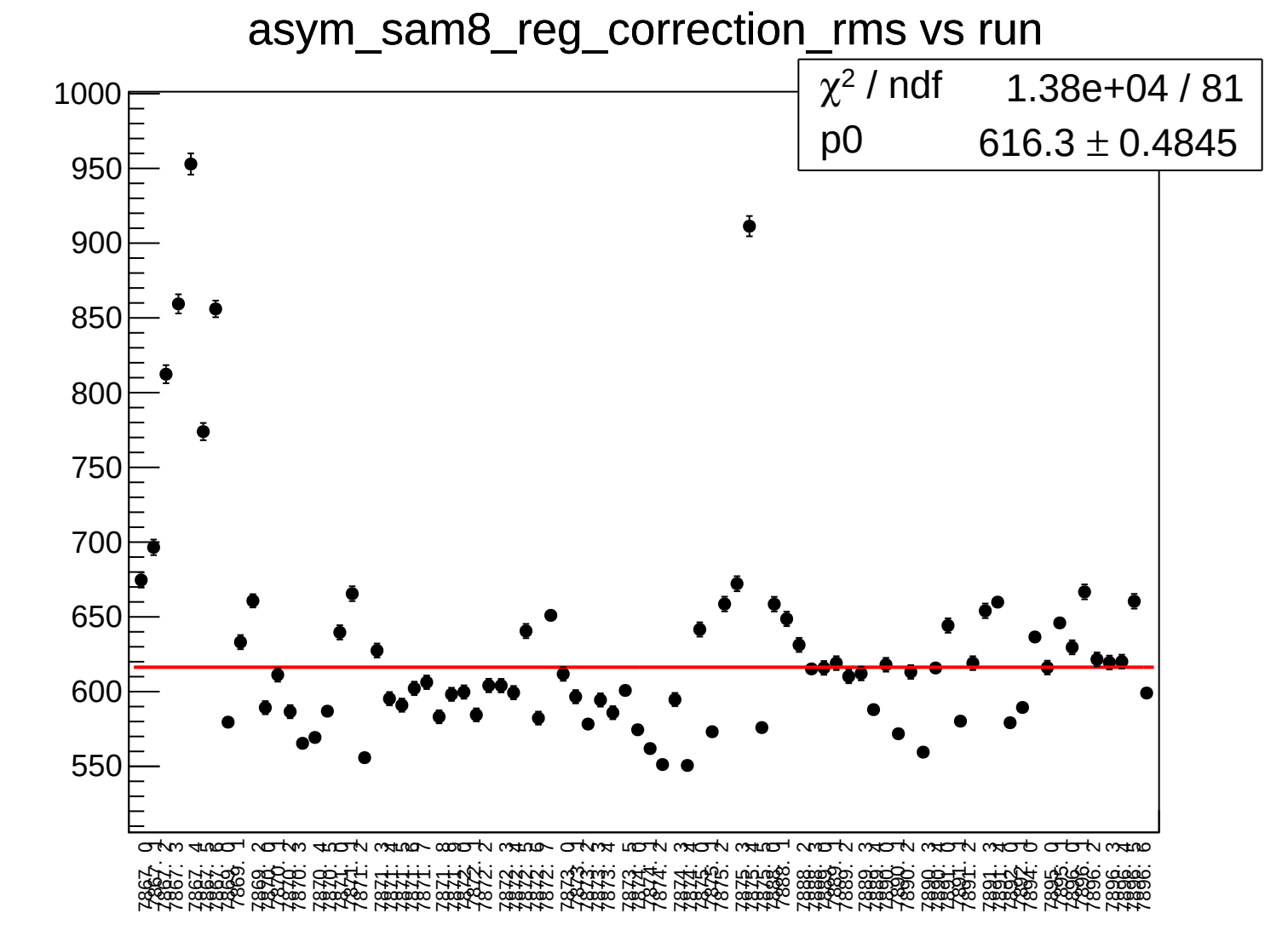

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.948e+05 / 81
p0 9.649e−11 ± 9.474e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

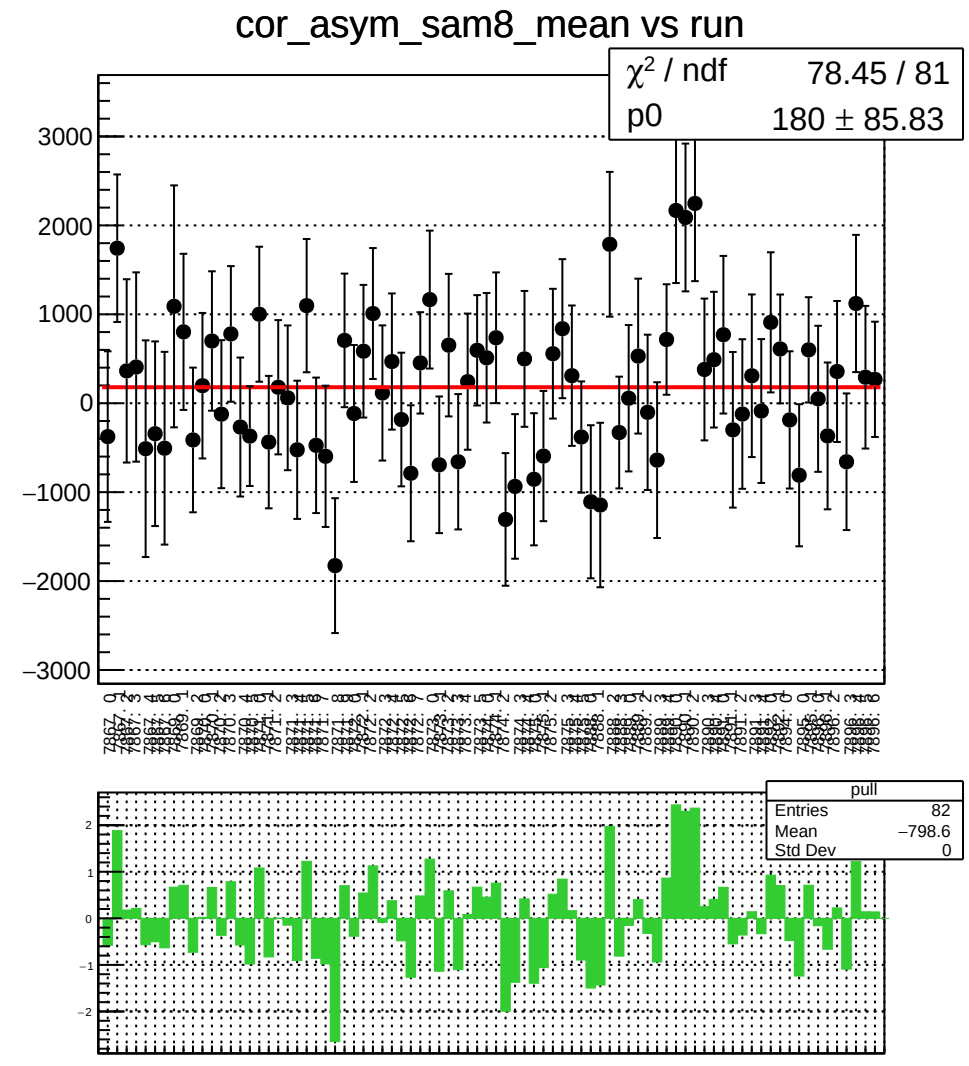

reg_asym_sam8_mean vs run
χ² / ndf 78.45 / 81
p0 180 ± 85.83
pull
Entries 82
Mean −798.4
Std Dev 0
pull1D
Entries 82
Mean −0.002257
Std Dev 0.9781

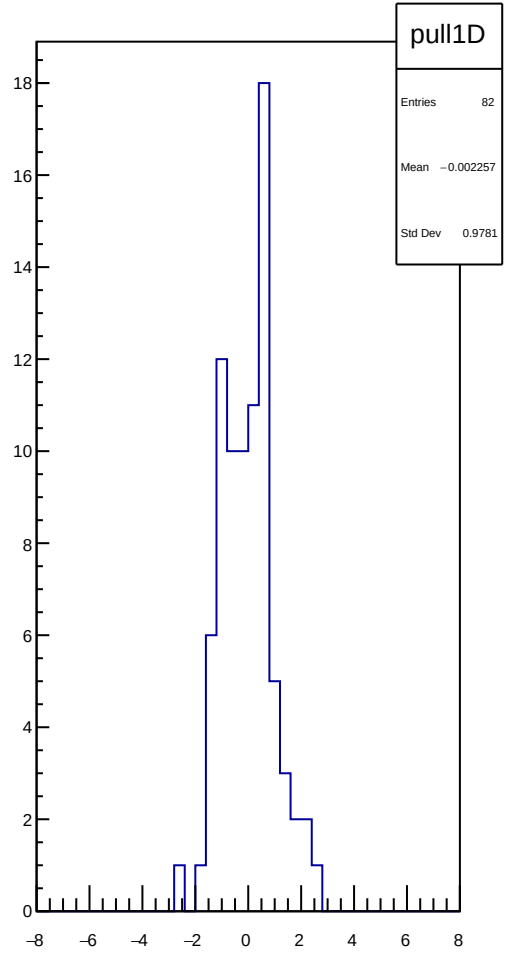

reg_asym_sam8_rms vs run
χ^2 / ndf 1.731e+04 / 81
p0 77.12 ± 0.06069
130
120
110
100
90
80
70

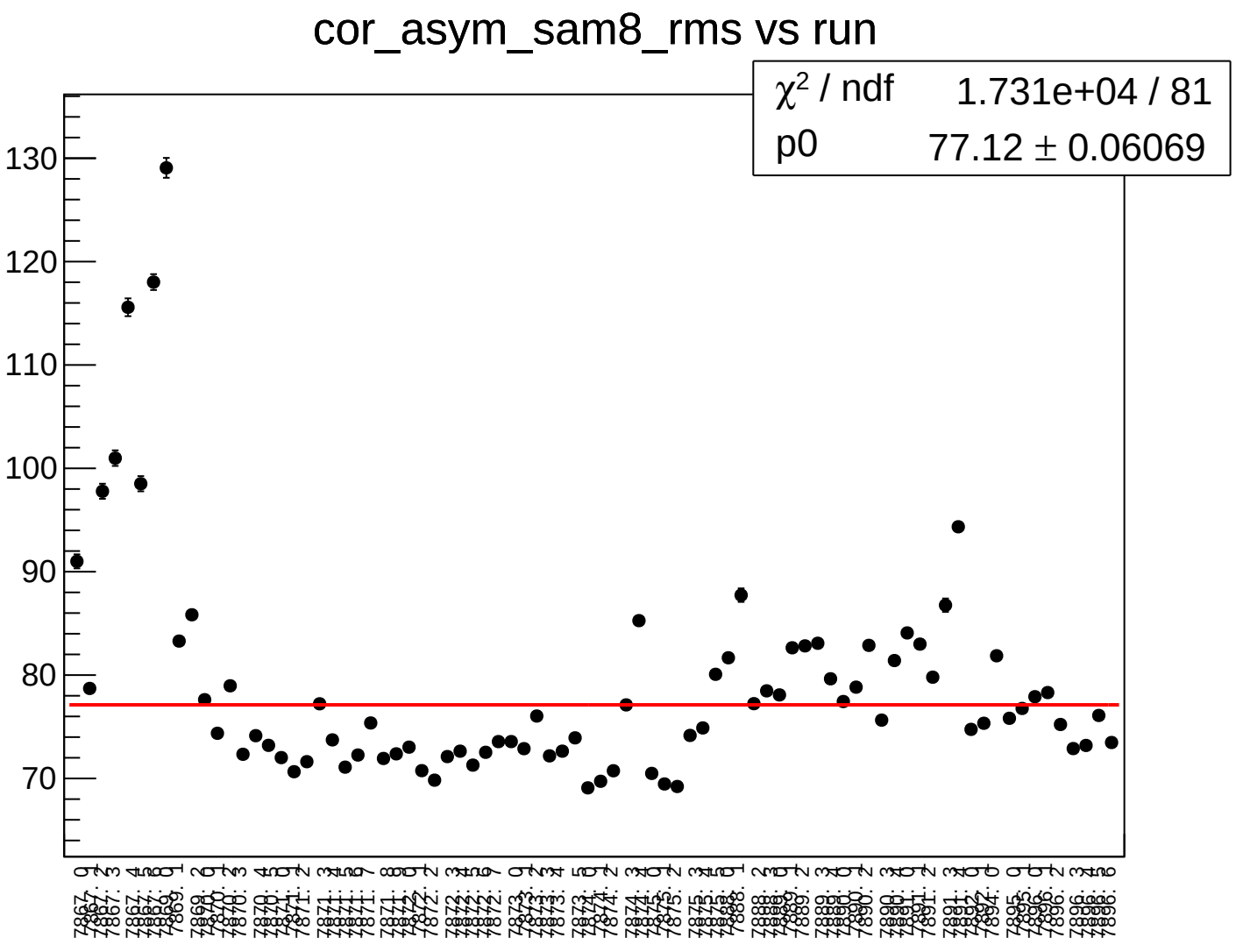

asym_sam8_reg_correction_mean vs run
χ² / ndf 68.58 / 81
p0 −48.18 ± 685.1
pull
Entries 82
Mean −27.35
Std Dev 0

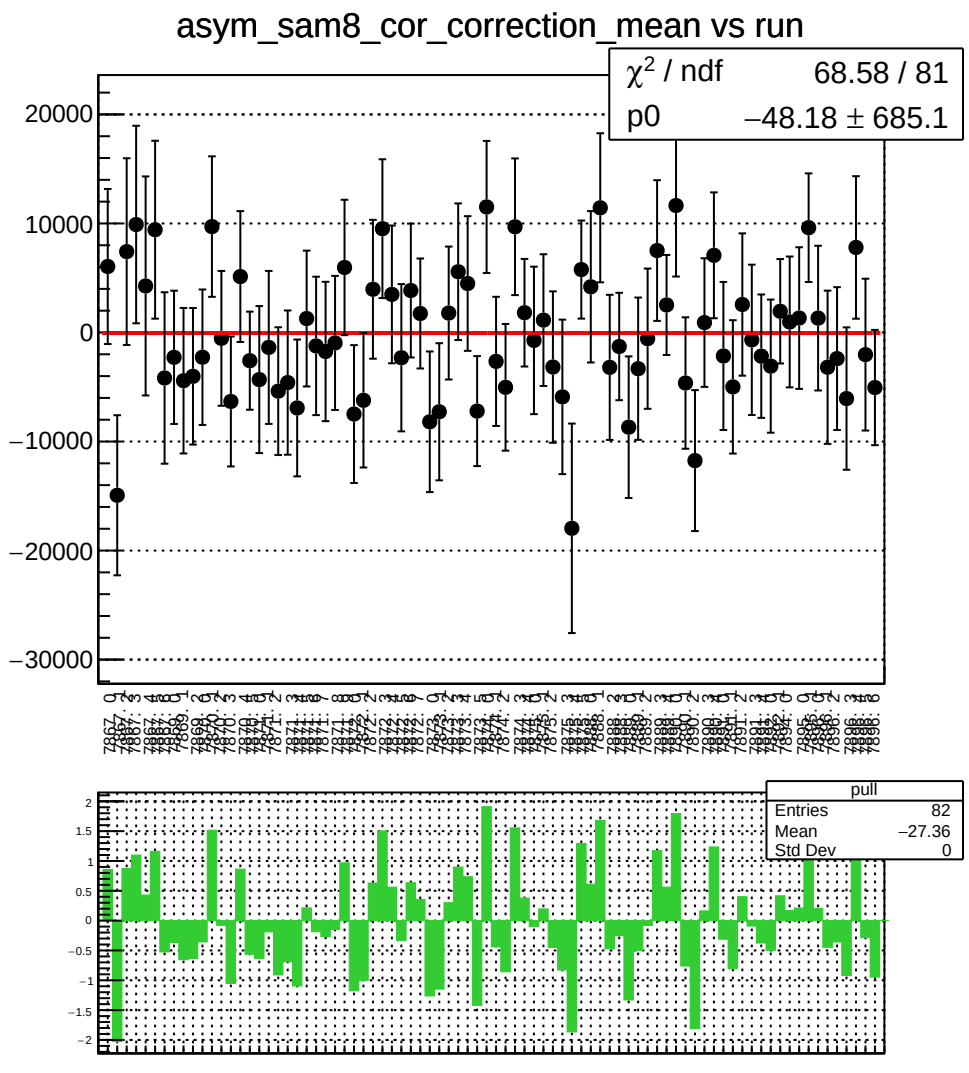

pull1D
Entries 82
Mean −0.009931
Std Dev 0.9145

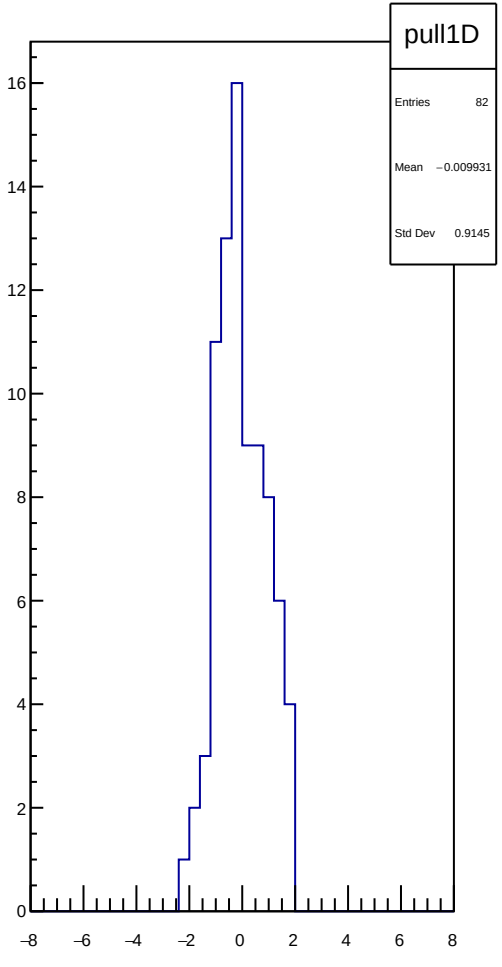

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.38e+04 / 81
p0 616.3 ± 0.4845
1000
950
900
850
800
750
700
650
600
550

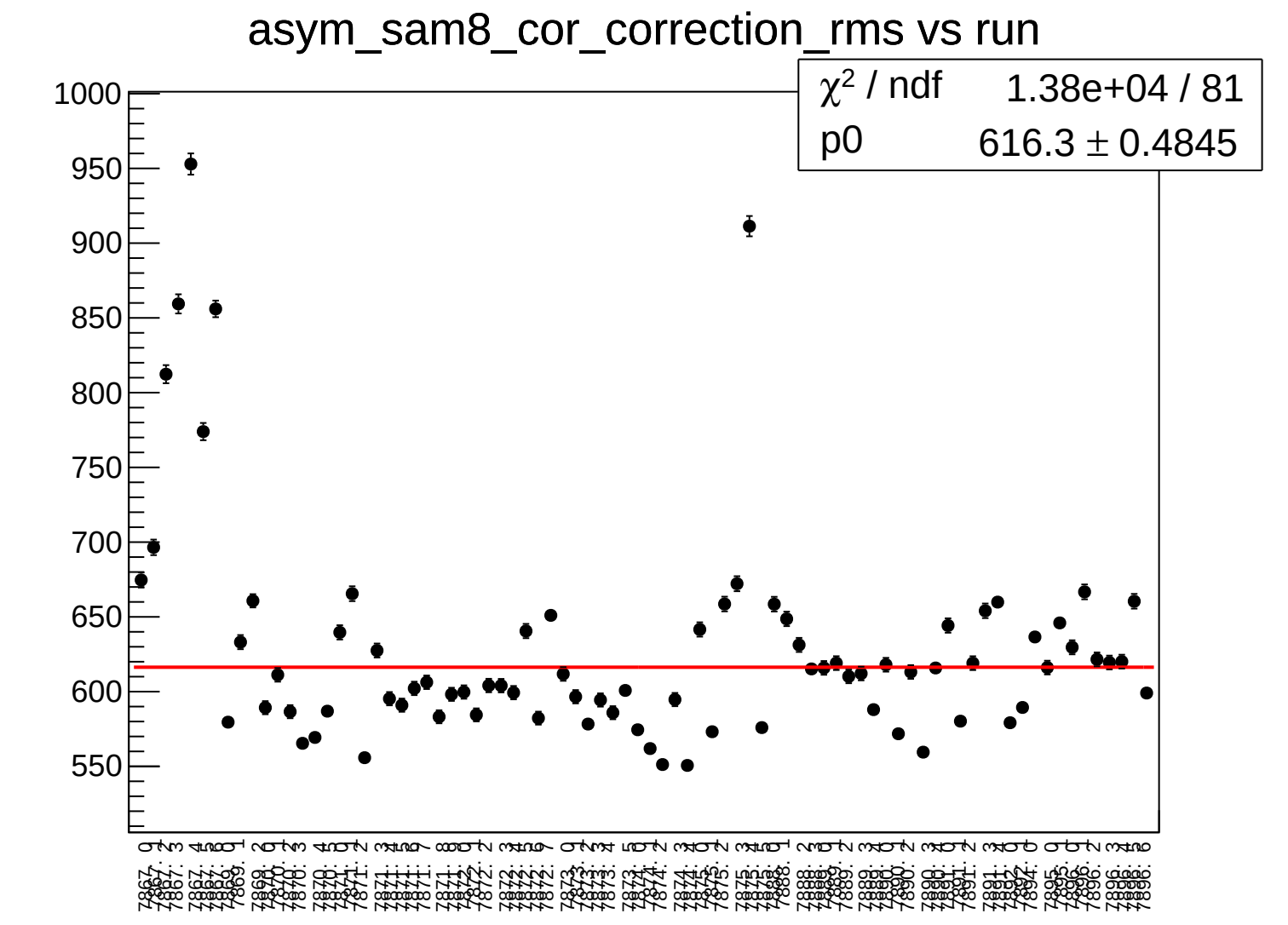

cor_asym_sam8_mean vs run
χ² / ndf 78.45 / 81
p0 180 ± 85.83
pull
Entries 82
Mean −798.6
Std Dev 0

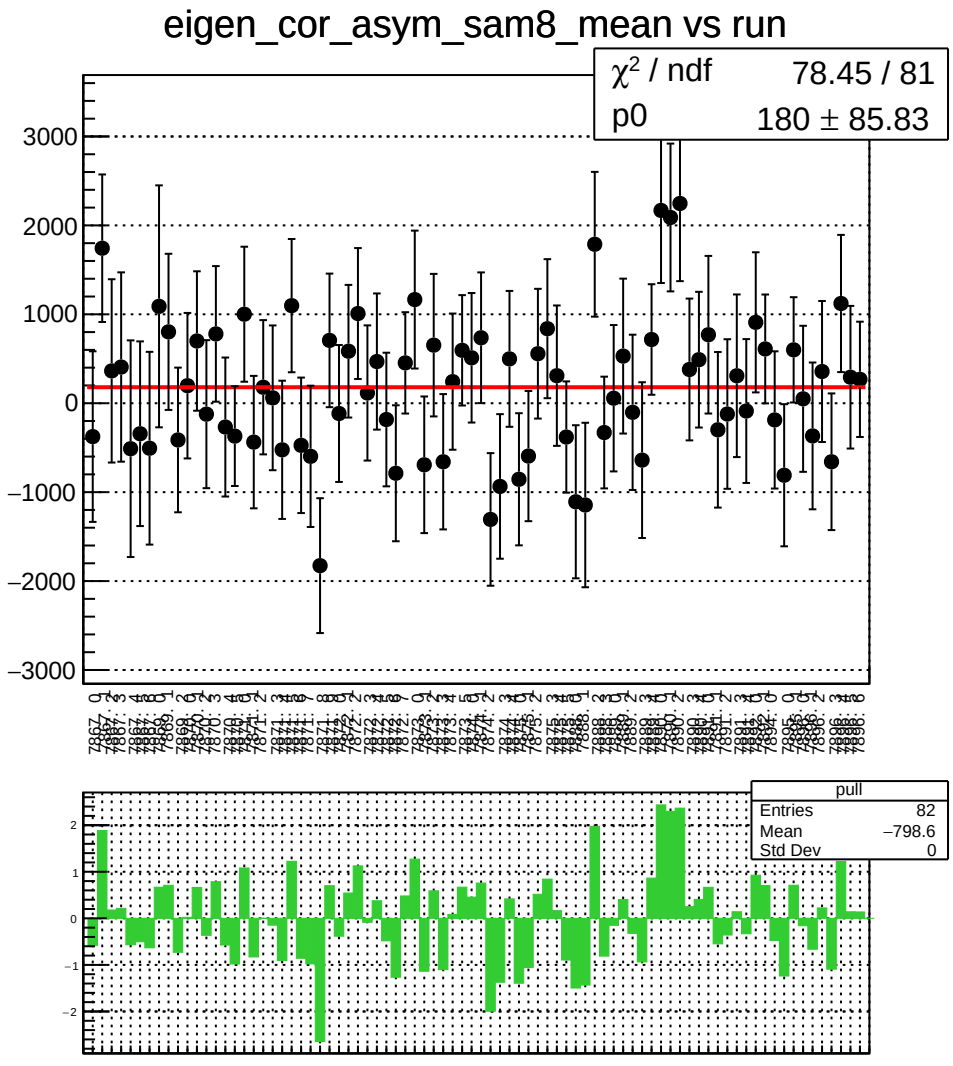

pull1D
Entries 82
Mean −0.002257
Std Dev 0.9781

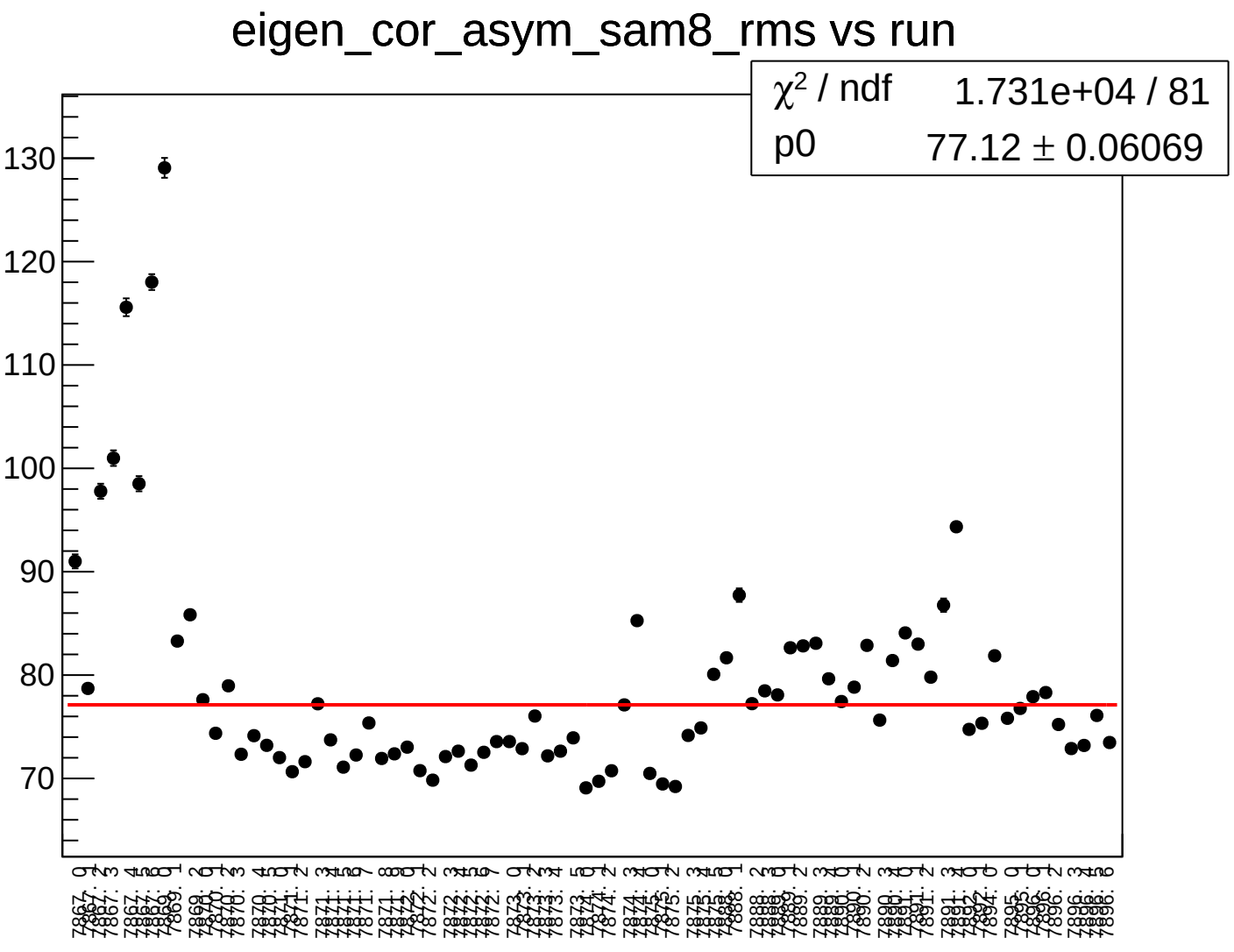

cor_asym_sam8_rms vs run
χ^2 / ndf 1.731e+04 / 81
p0 77.12 ± 0.06069
130
120
110
100
90
80
70

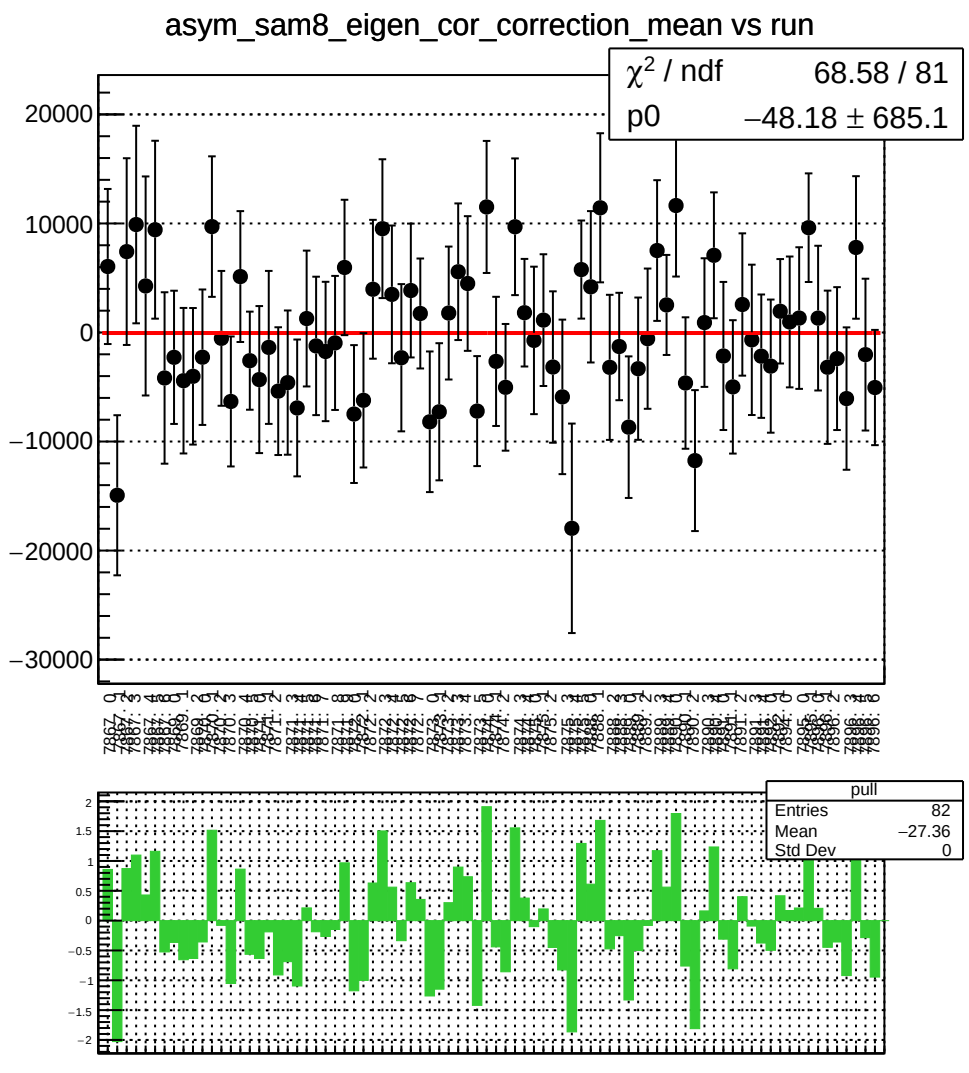

asym_sam8_cor_correction_mean vs run
χ² / ndf 68.58 / 81
p0 −48.18 ± 685.1
pull
Entries 82
Mean −27.36
Std Dev 0

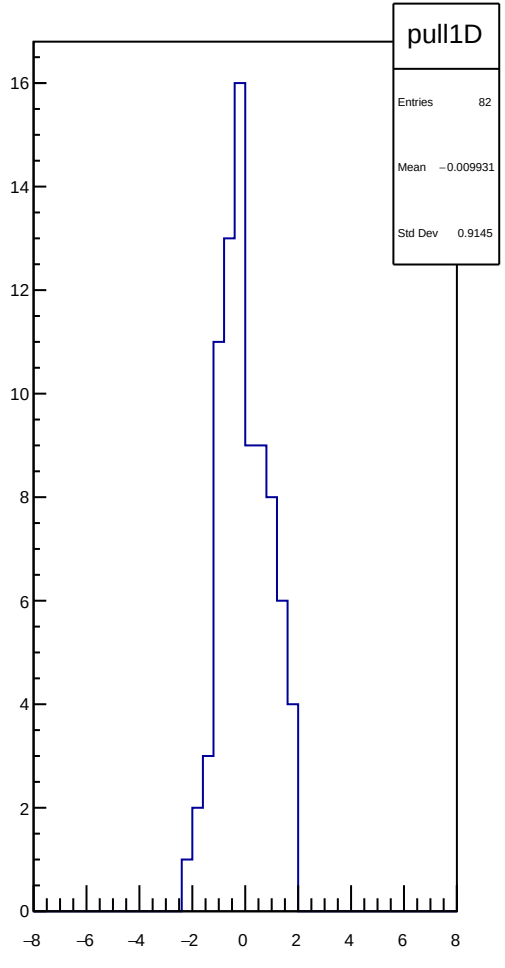

pull1D
Entries 82
Mean −0.009931
Std Dev 0.9145

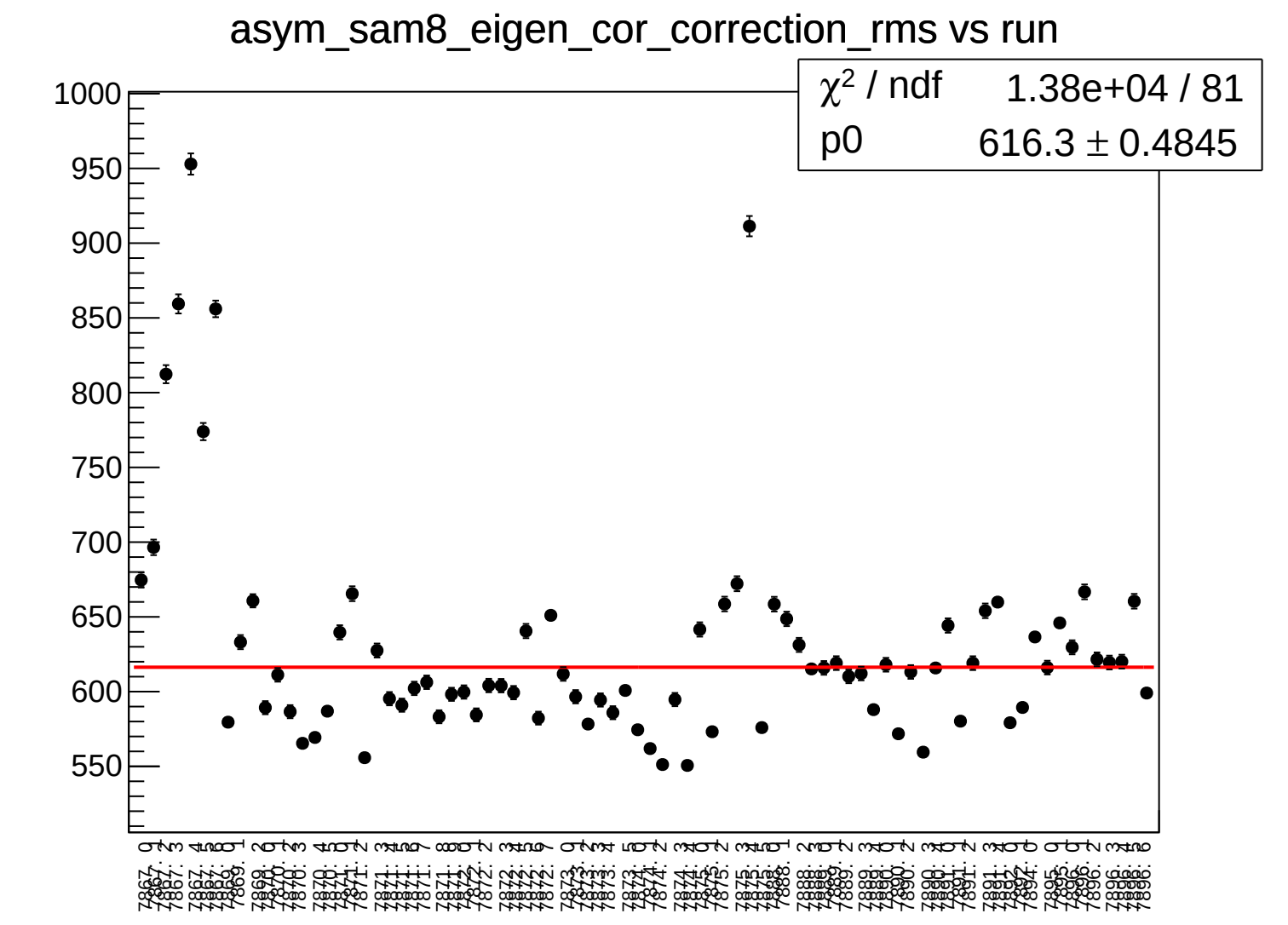

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.38e+04 / 81
p0 616.3 ± 0.4845
1000
950
900
850
800
750
700
650
600
550

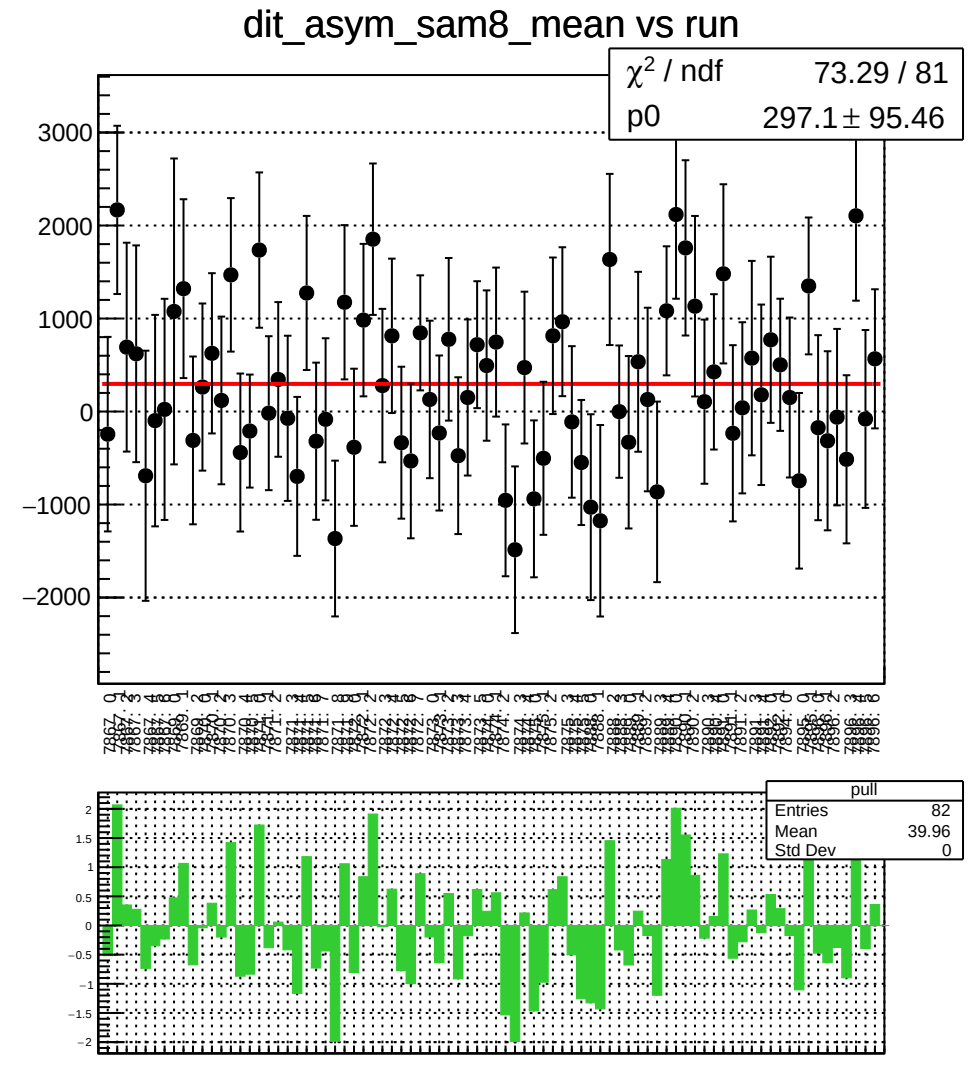

eigen_cor_asym_sam8_mean vs run
χ² / ndf 78.45 / 81
p0 180 ± 85.83
pull
Entries 82
Mean −798.6
Std Dev 0
pull1D
Entries 82
Mean −0.002257
Std Dev 0.9781

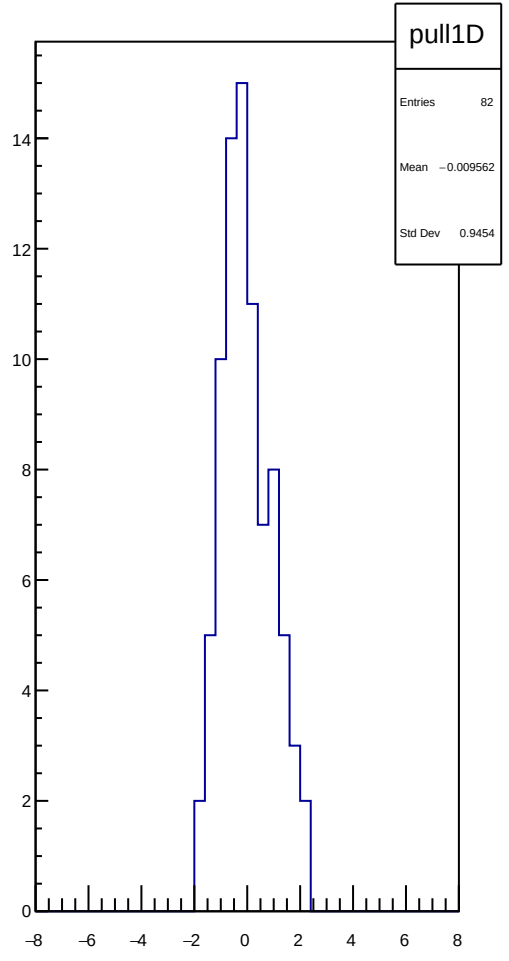

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 1.731e+04 / 81
p0 77.12 ± 0.06069
130
120
110
100
90
80
70

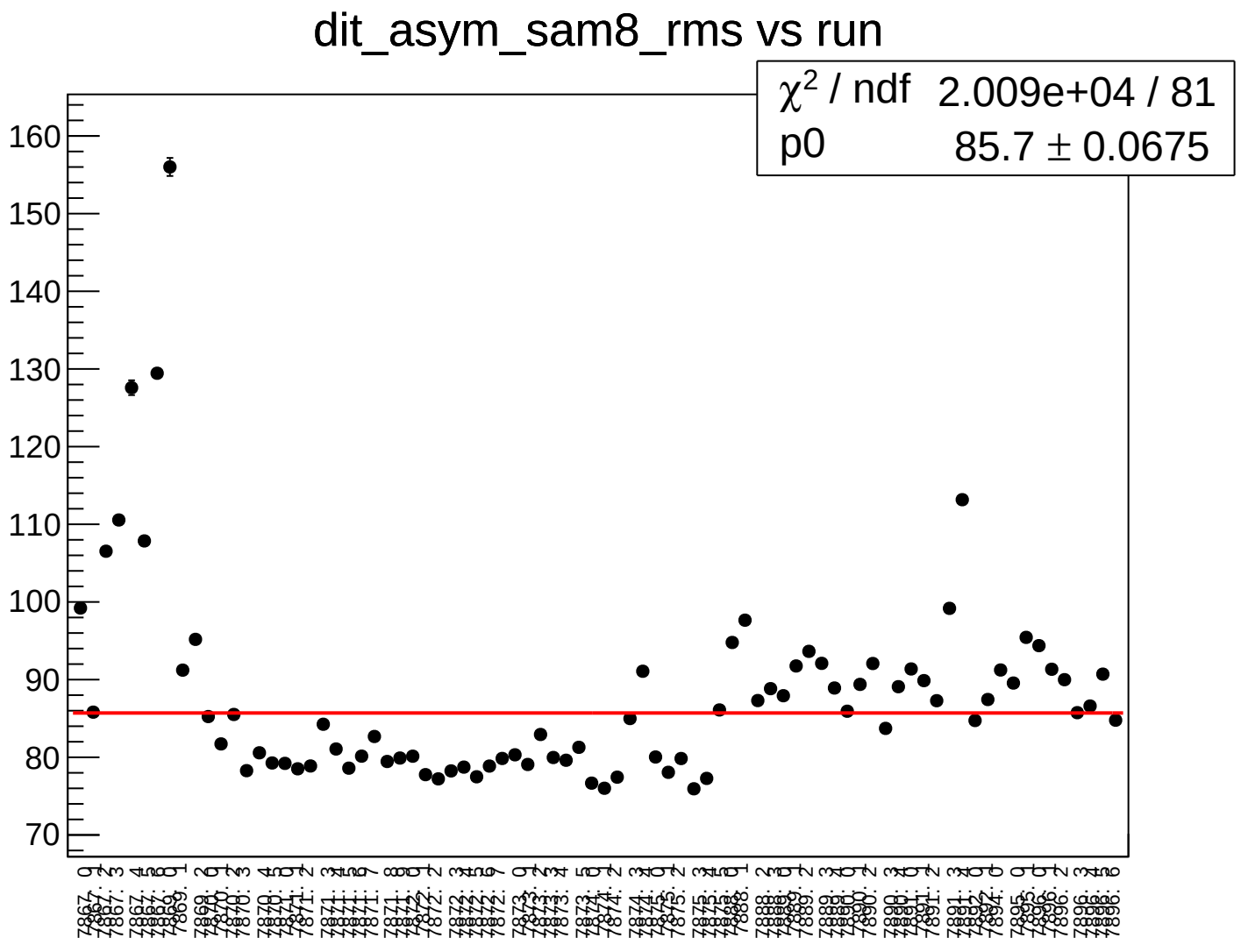

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 68.58 / 81
p0 −48.18 ± 685.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −27.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

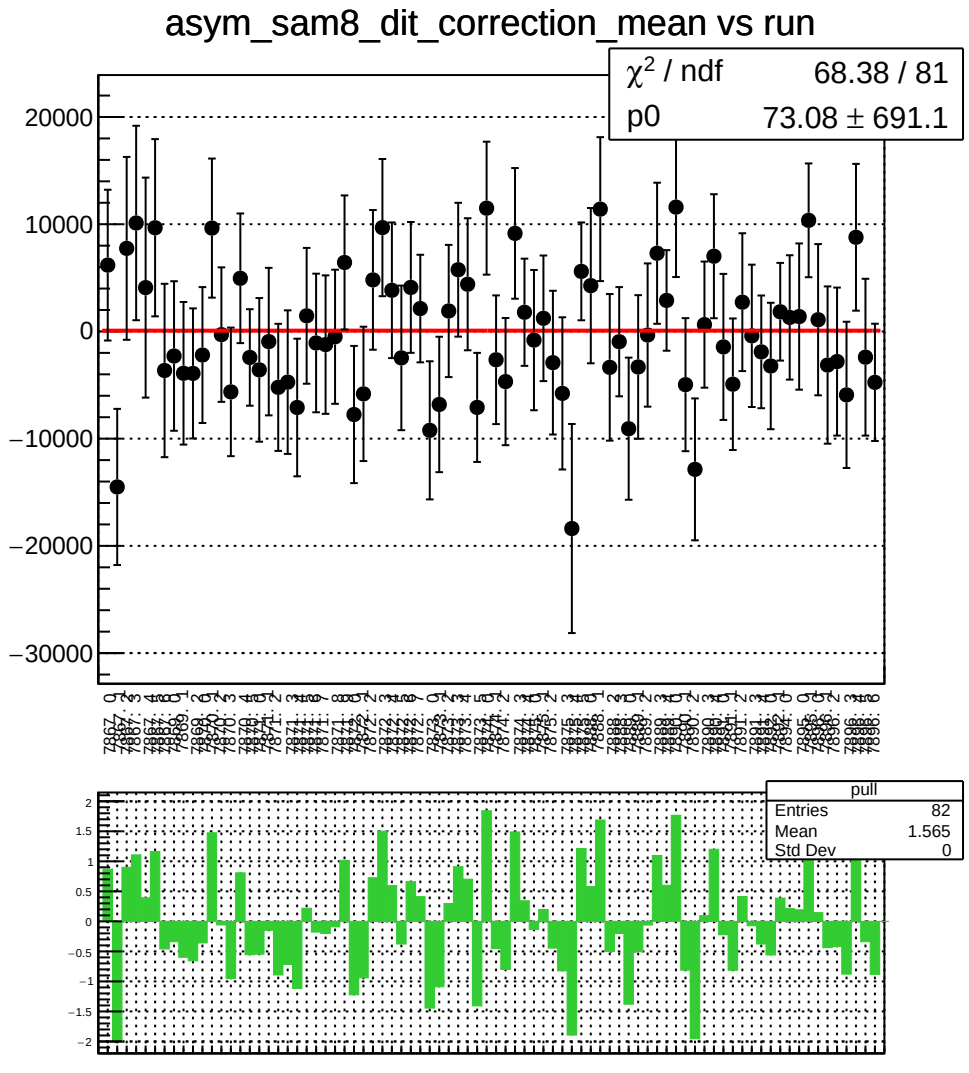

pull1D
Entries 82
Mean −0.009931
Std Dev 0.9145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

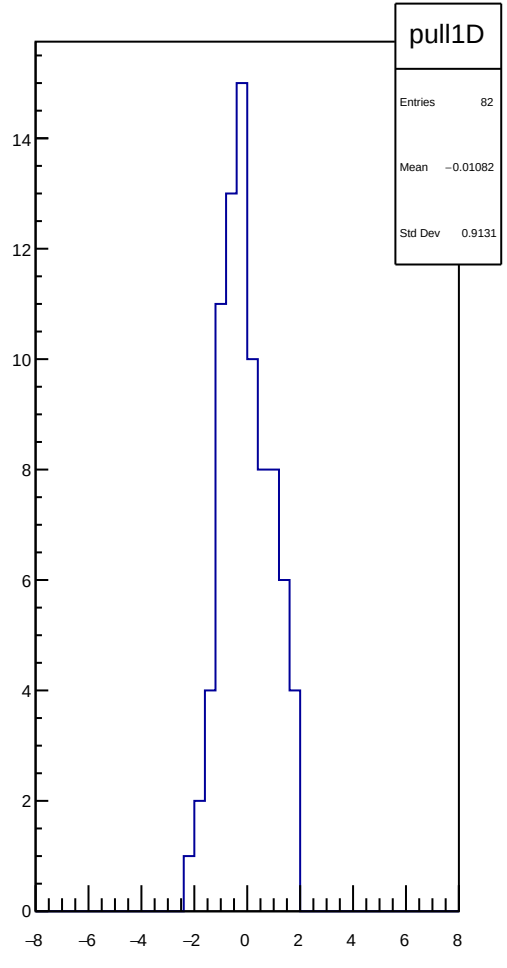

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.38e+04 / 81
p0 616.3 ± 0.4845
1000
950
900
850
800
750
700
650
600
550

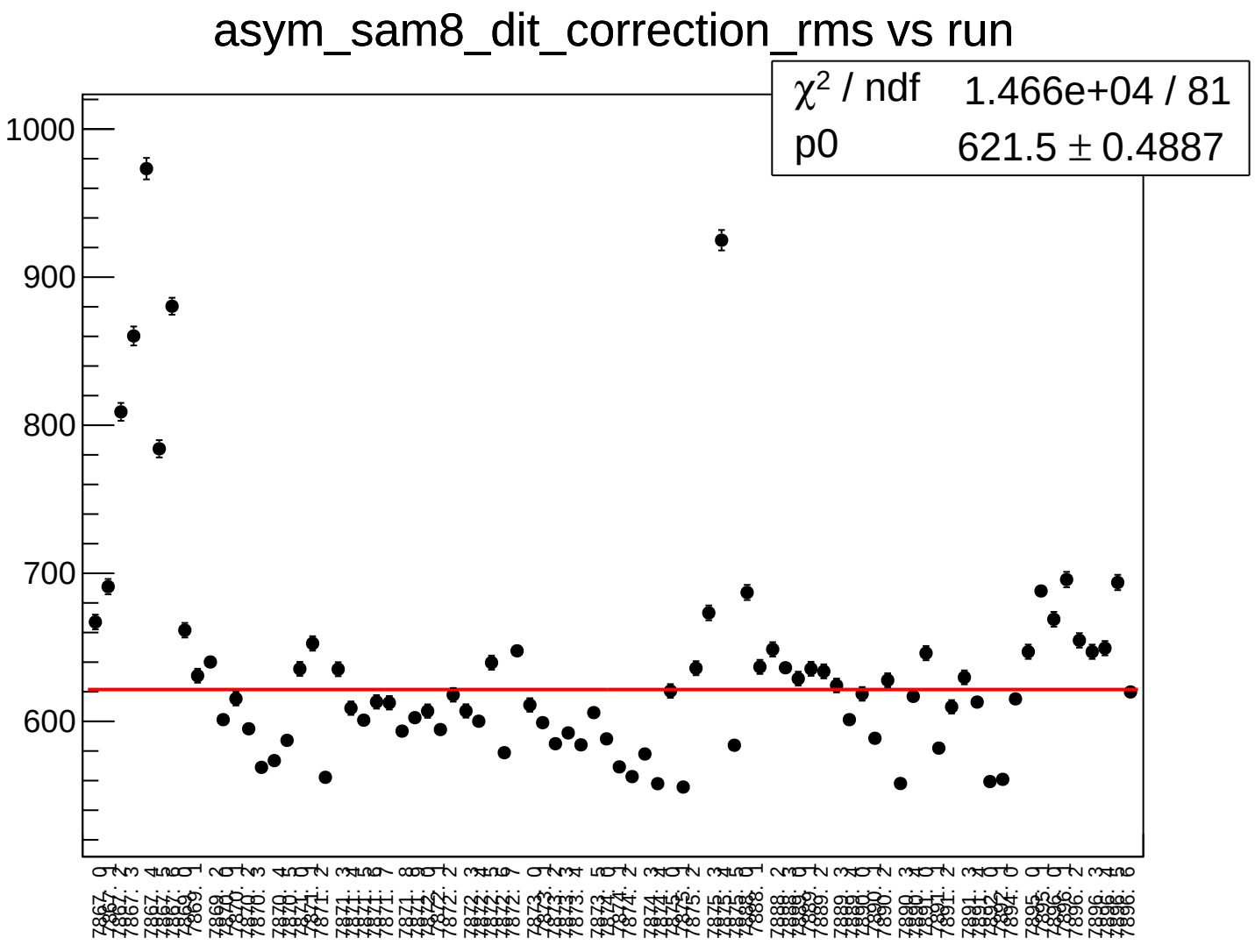

dit_asym_sam8_mean vs run
χ² / ndf 73.29 / 81
p0 297.1 ± 95.46
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 39.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

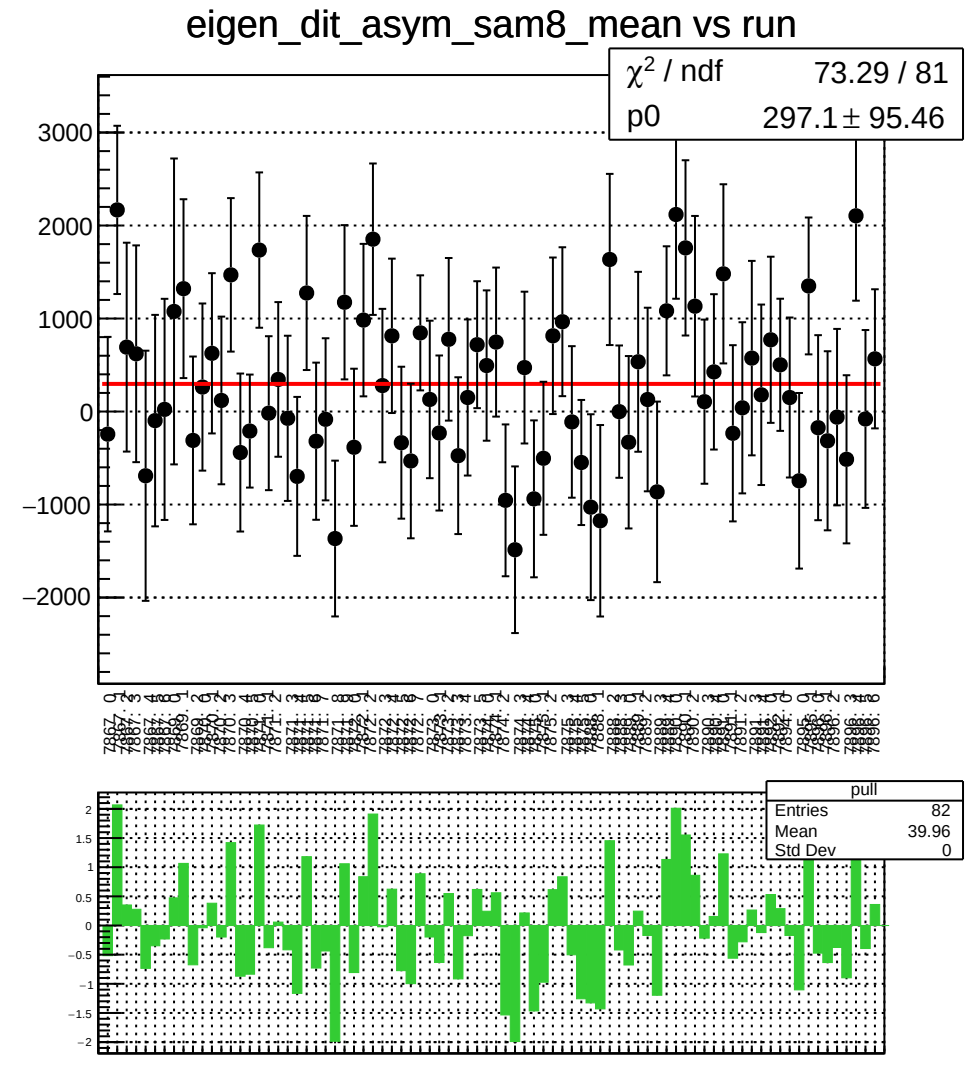

pull1D
Entries 82
Mean −0.009562
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

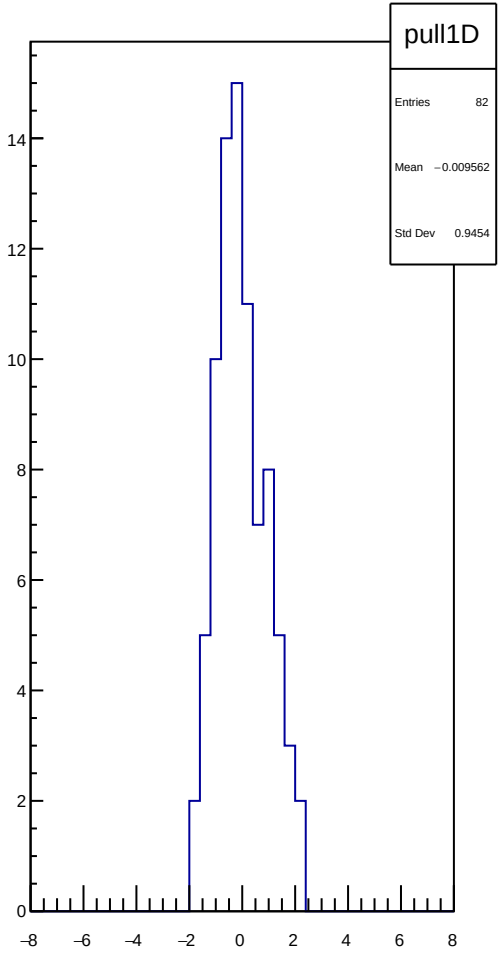

dit_asym_sam8_rms vs run
χ^2 / ndf 2.009e+04 / 81
p0 85.7 ± 0.0675
160
150
140
130
120
110
100
90
80
70

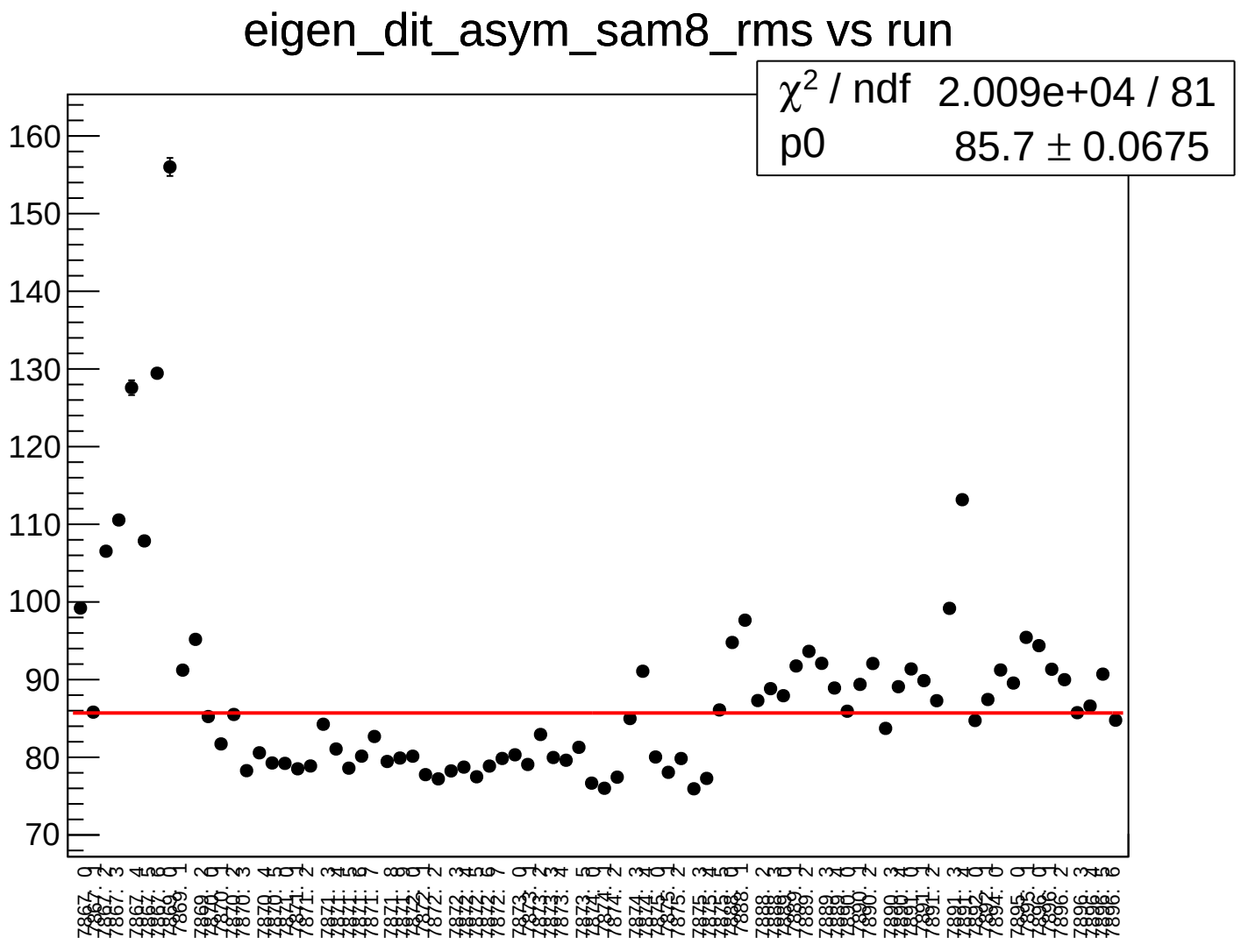

asym_sam8_dit_correction_mean vs run
χ² / ndf 68.38 / 81
p0 73.08 ± 691.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 1.565
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

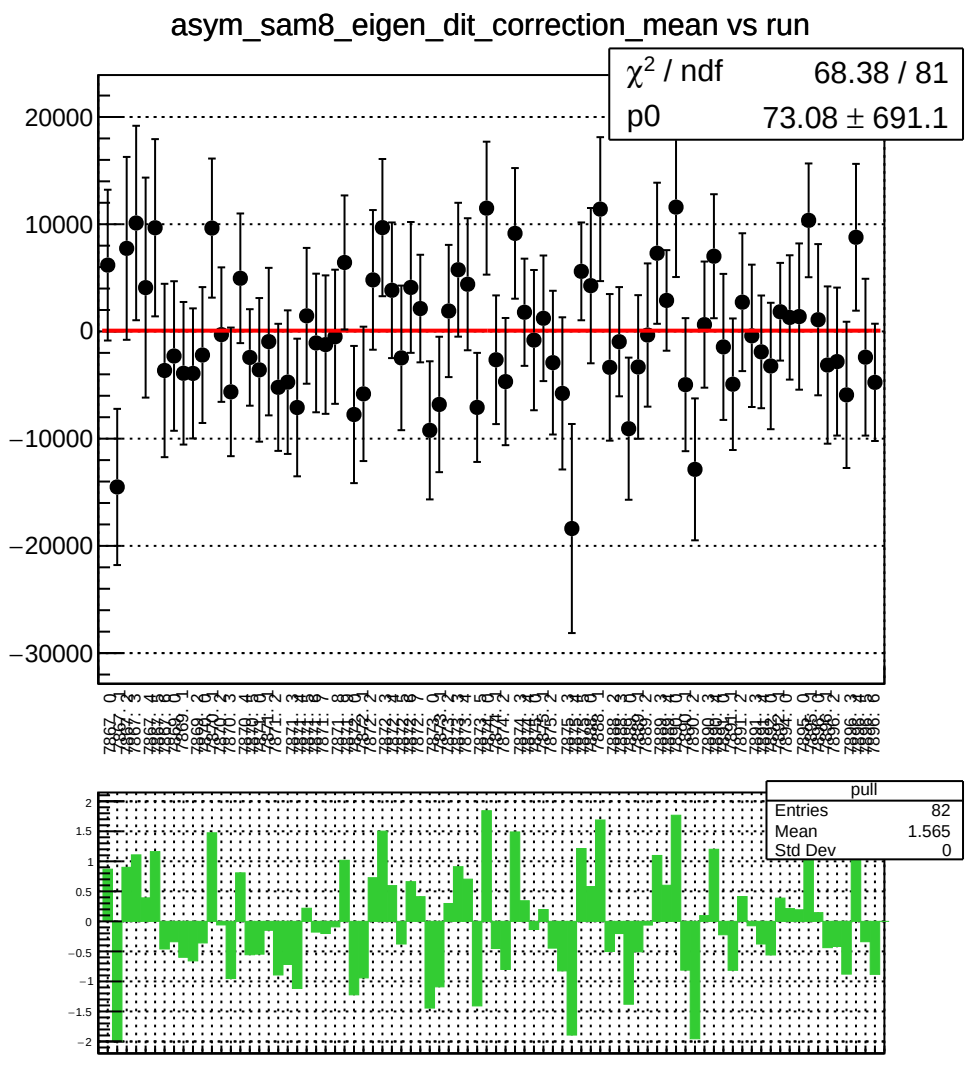

pull1D
Entries 82
Mean −0.01082
Std Dev 0.9131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

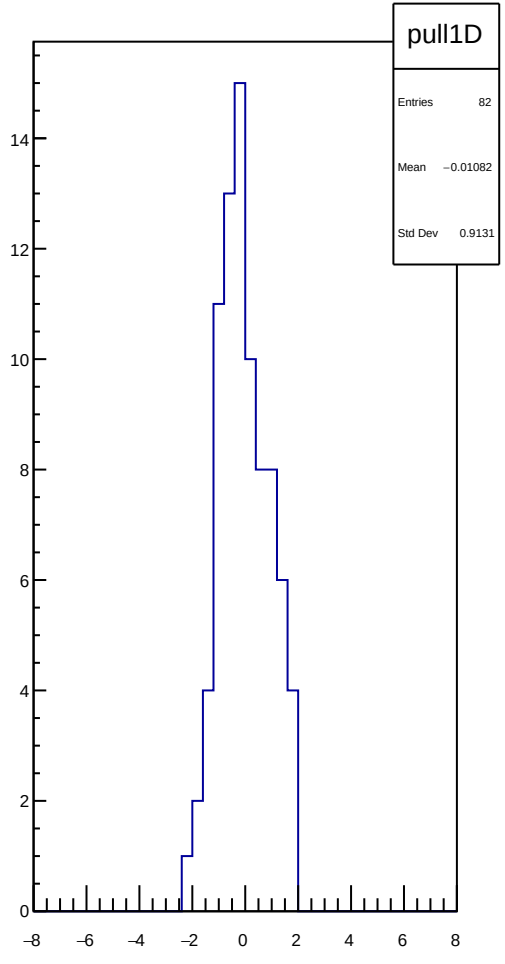

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.466e+04 / 81
p0 621.5 ± 0.4887
1000
900
800
700
600

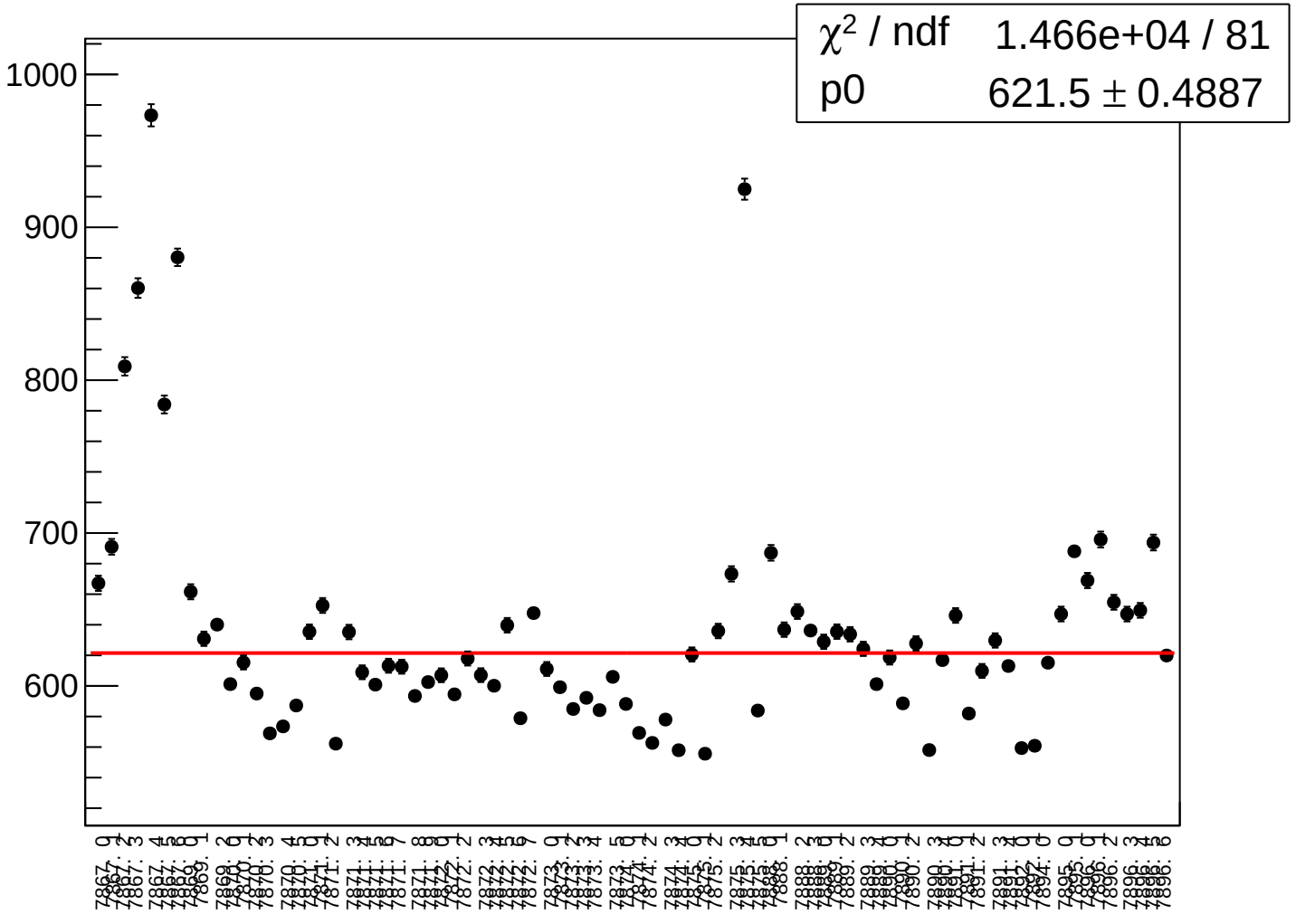

eigen_dit_asym_sam8_mean vs run
χ² / ndf 73.29 / 81
p0 297.1 ± 95.46
pull
Entries 82
Mean 39.96
Std Dev 0

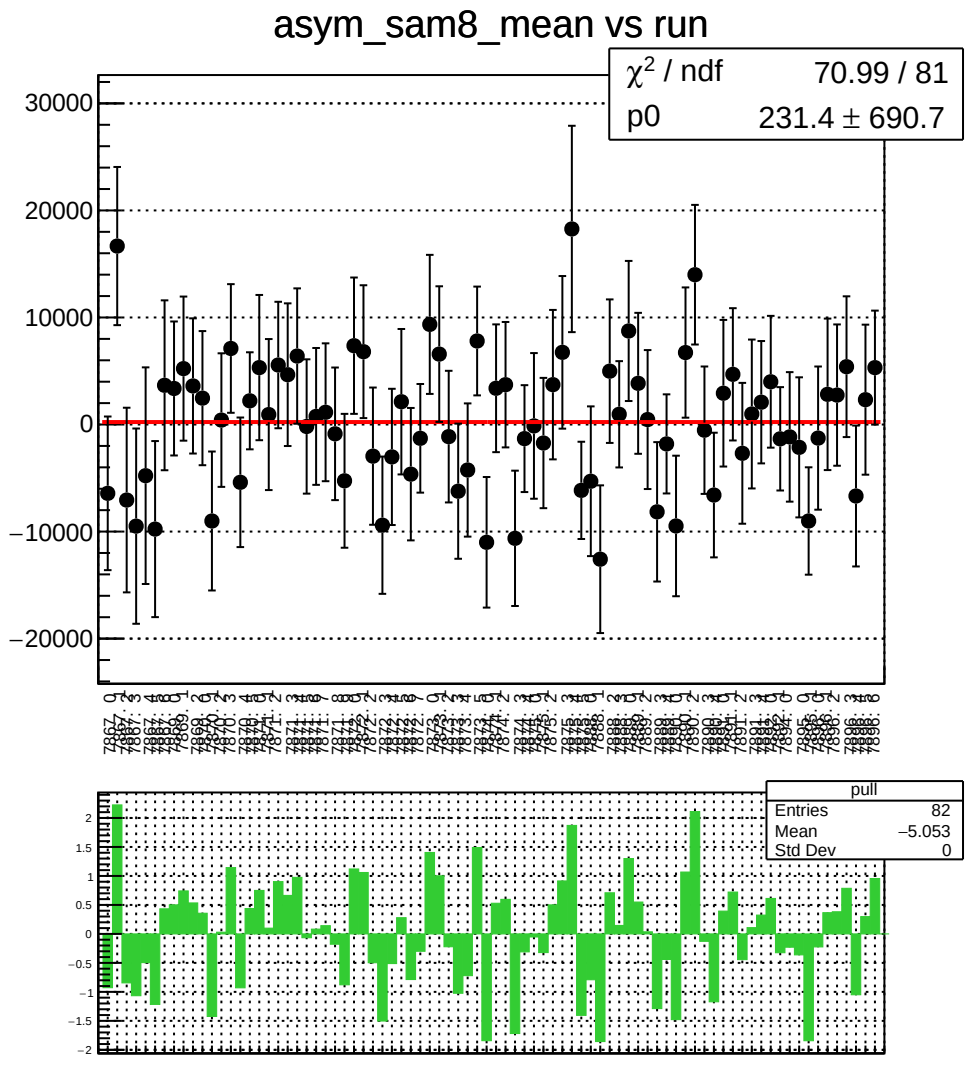

pull1D
Entries 82
Mean −0.009562
Std Dev 0.9454

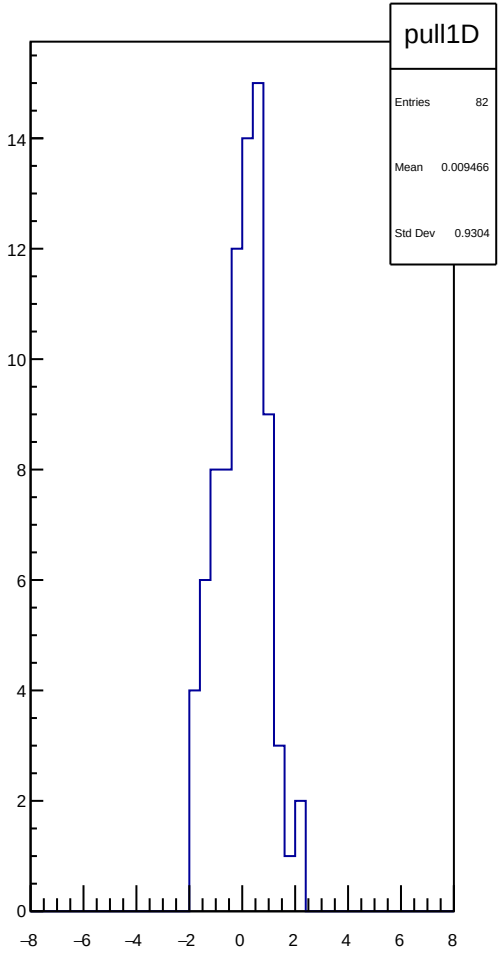

eigen_dit_asym_sam8_rms vs run
χ² / ndf 2.009e+04 / 81
p0 85.7 ± 0.0675
160
150
140
130
120
110
100
90
80
70

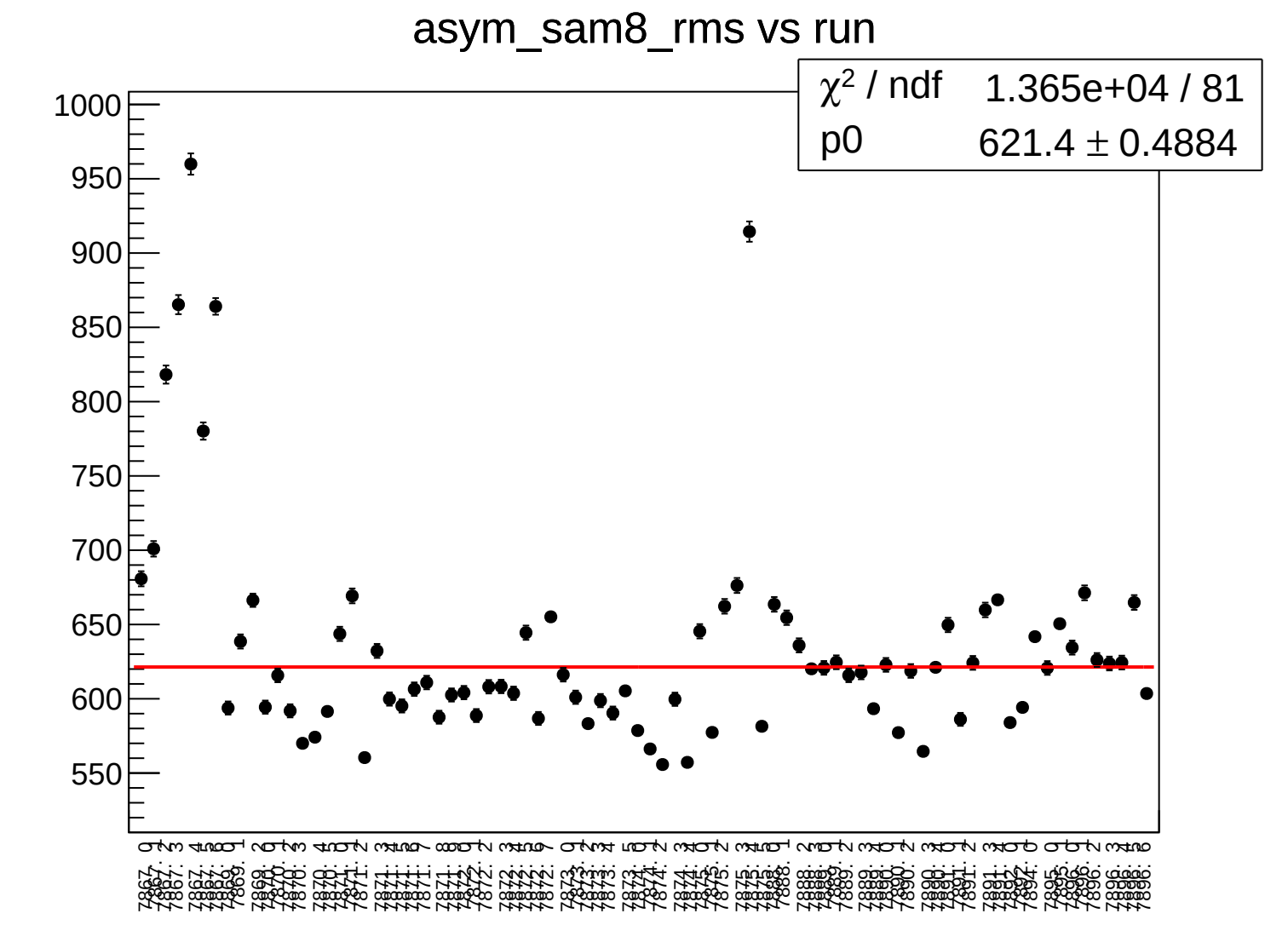

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 68.38 / 81
p0 73.08 ± 691.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 1.565
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

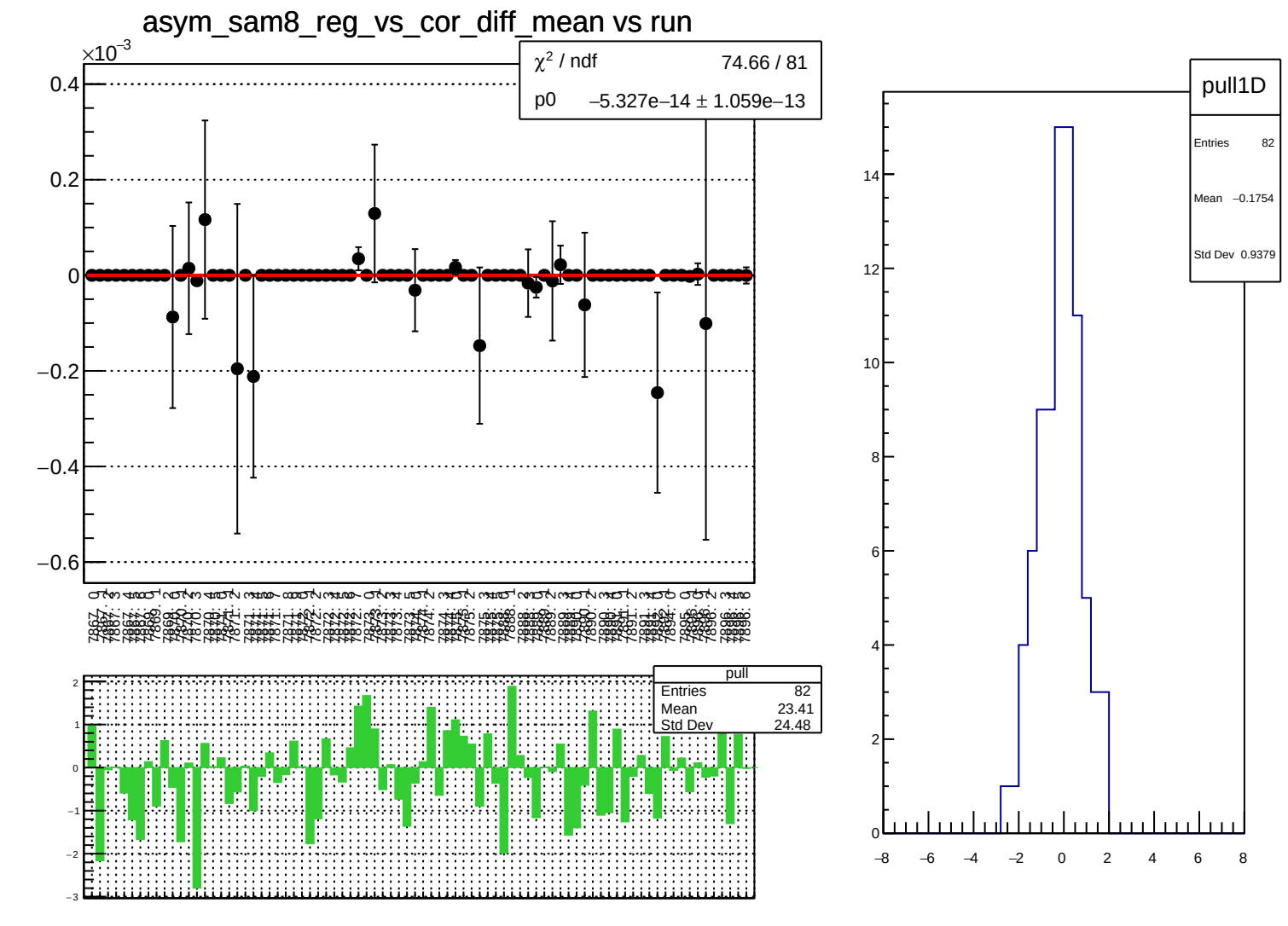

pull1D
Entries 82
Mean −0.01082
Std Dev 0.9131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

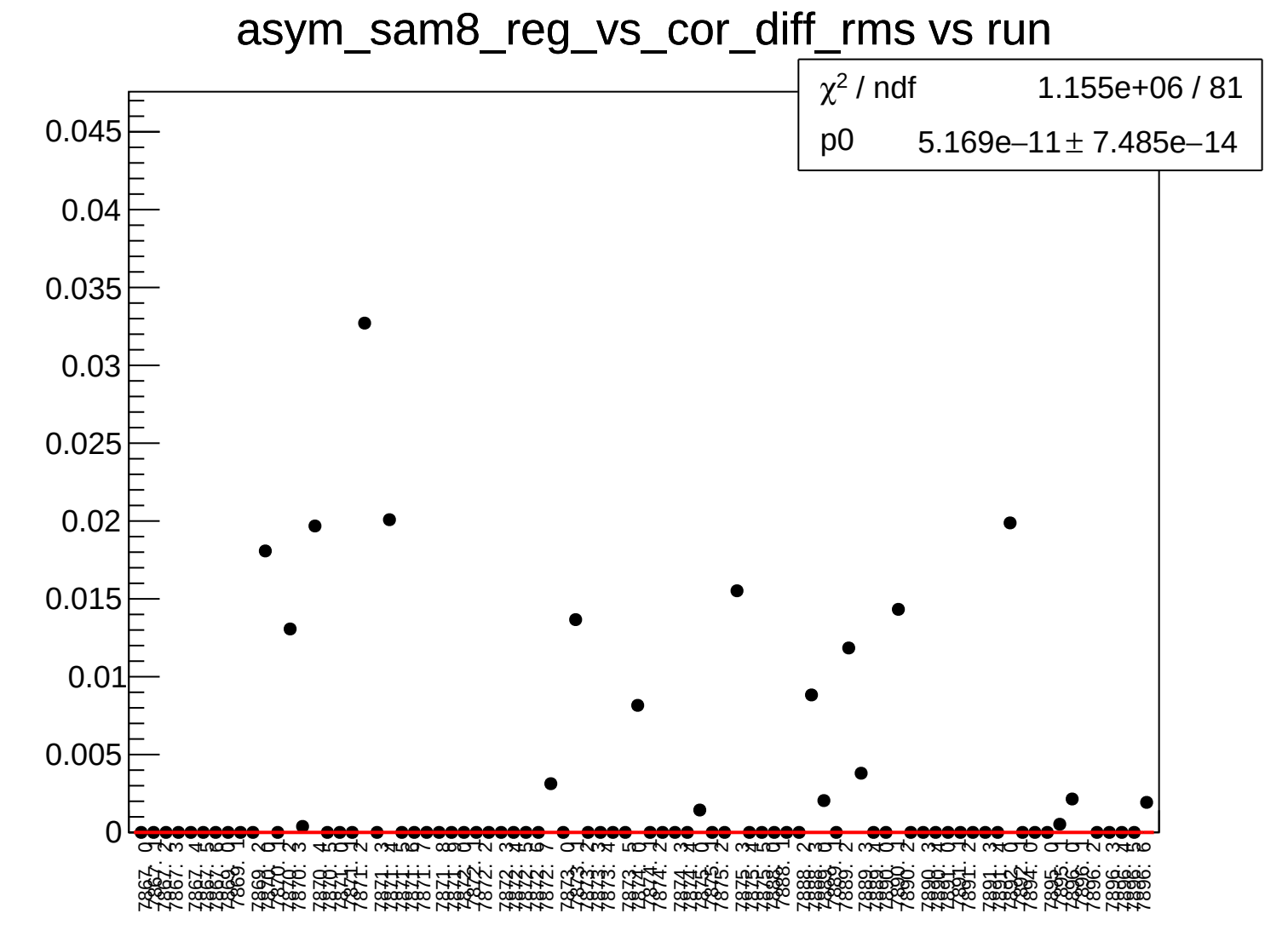

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.466e+04 / 81
p0 621.5 ± 0.4887
1000
900
800
700
600

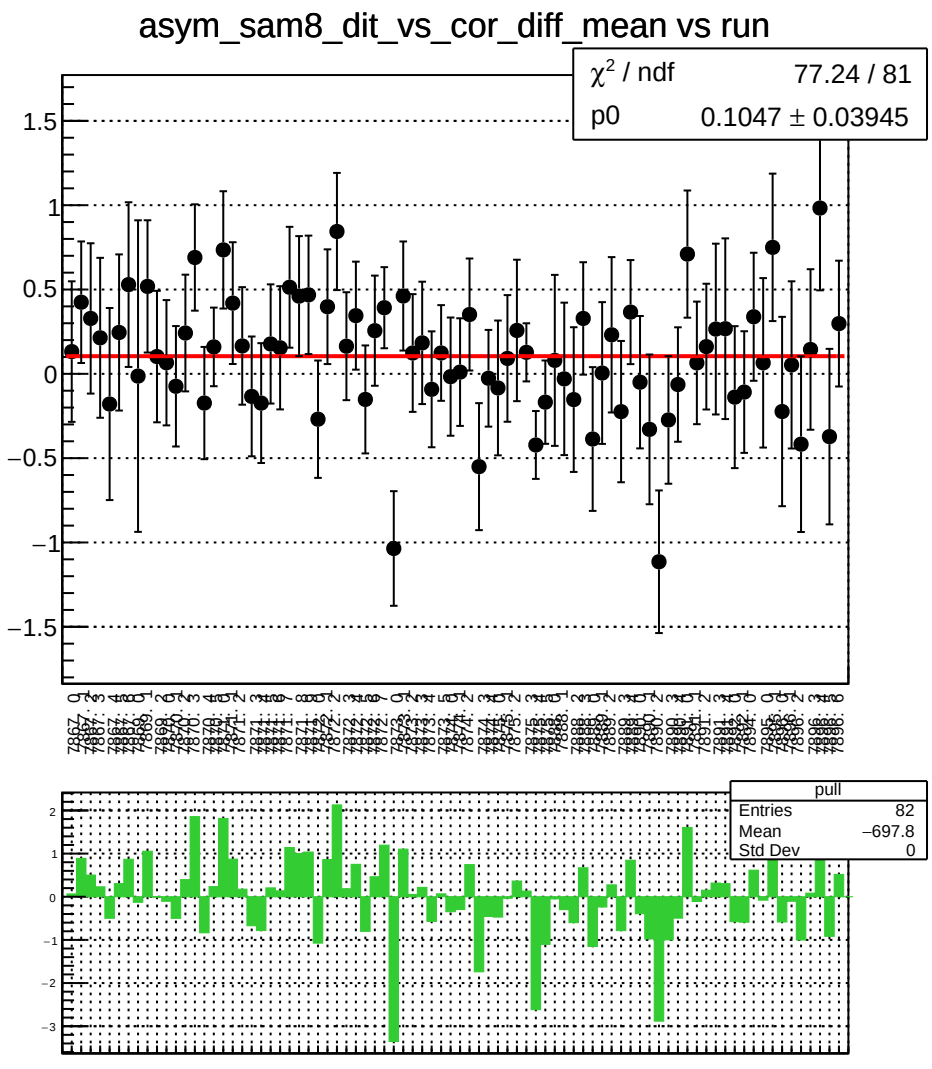

asym_sam8_mean vs run
χ² / ndf 70.99 / 81
p0 231.4 ± 690.7
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −5.053
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

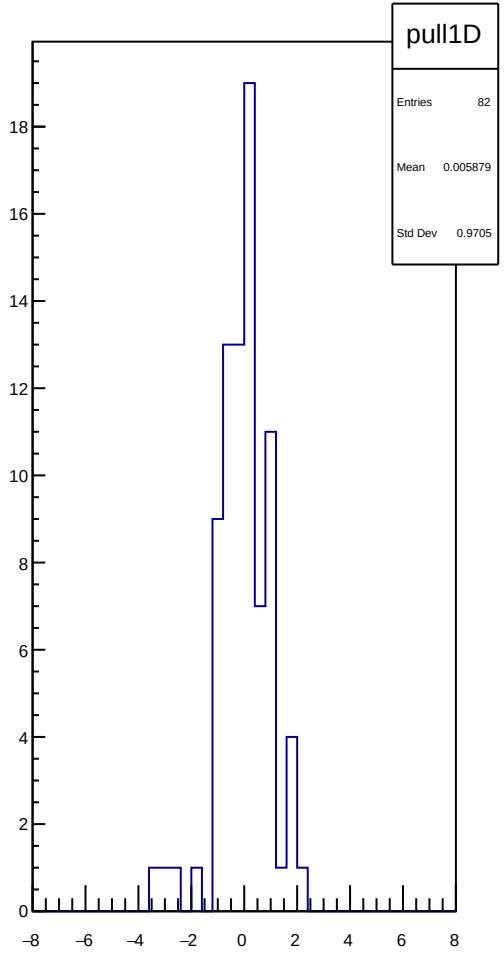

pull1D
Entries 82
Mean 0.009466
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

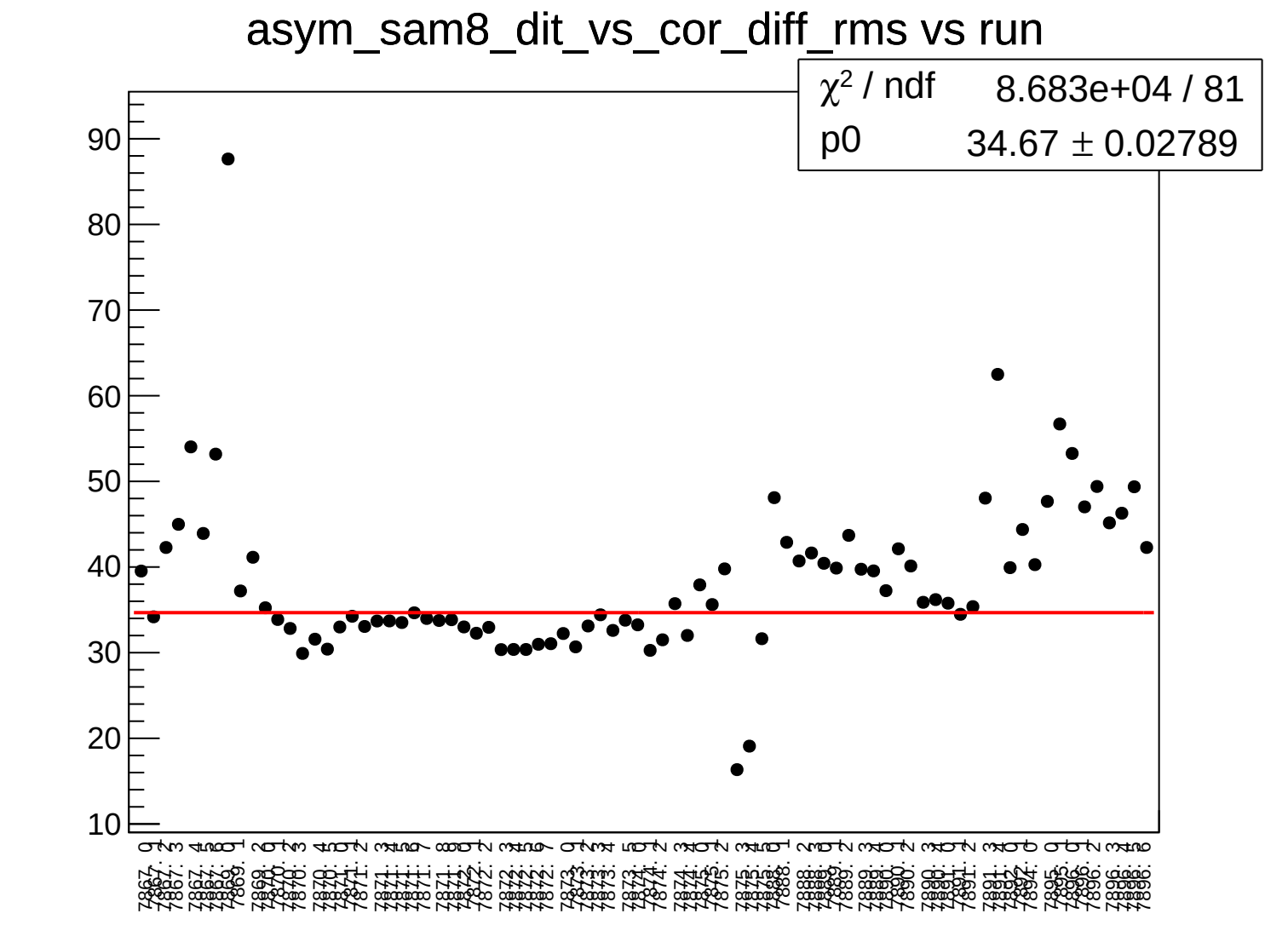

asym_sam8_rms vs run
χ² / ndf 1.365e+04 / 81
p0 621.4 ± 0.4884
1000
950
900
850
800
750
700
650
600
550

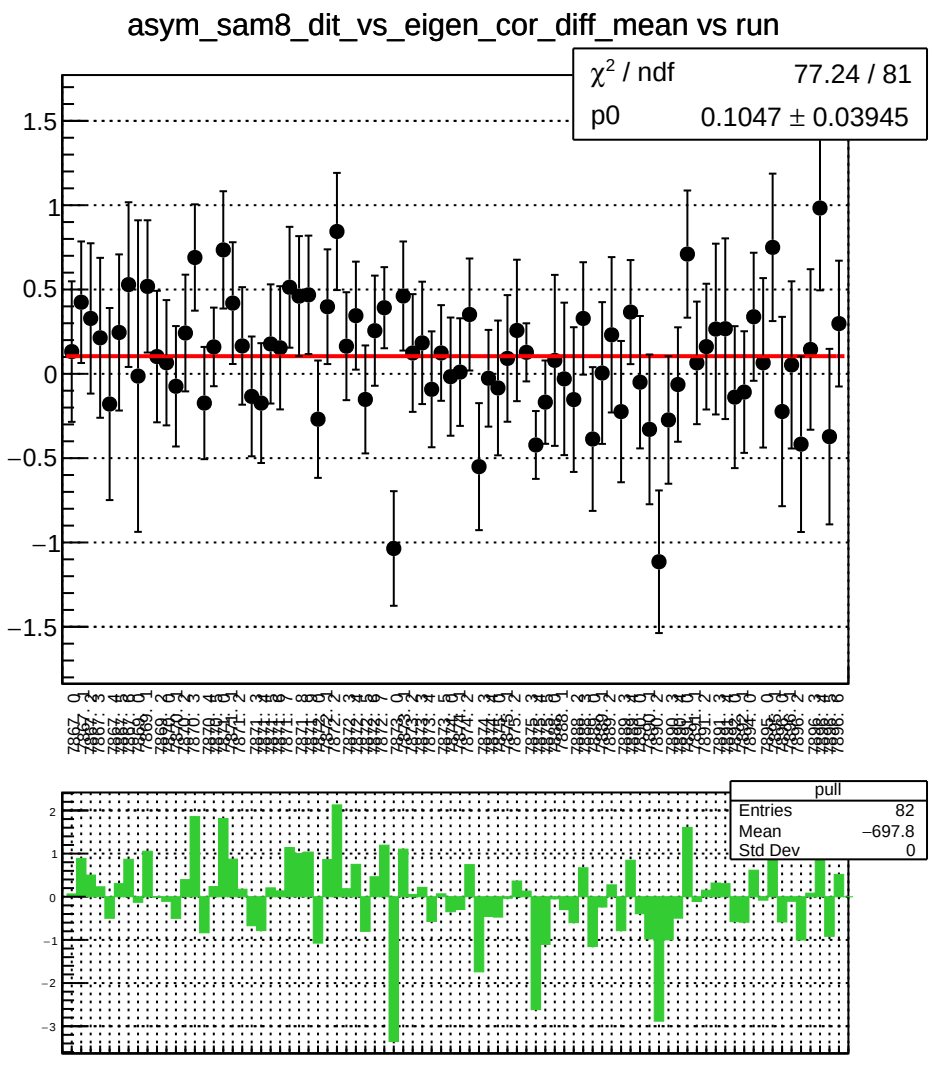

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 74.66 / 81
p0 −5.327e−14 ± 1.059e−13
pull
Entries 82
Mean 23.41
Std Dev 24.48
pull1D
Entries 82
Mean −0.1754
Std Dev 0.9379

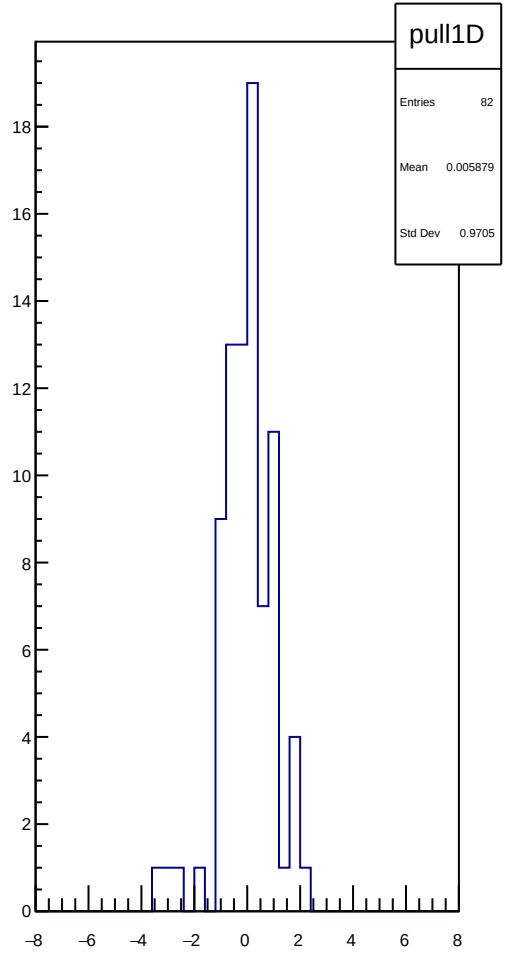

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 81
p0 5.169e−11 ± 7.485e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

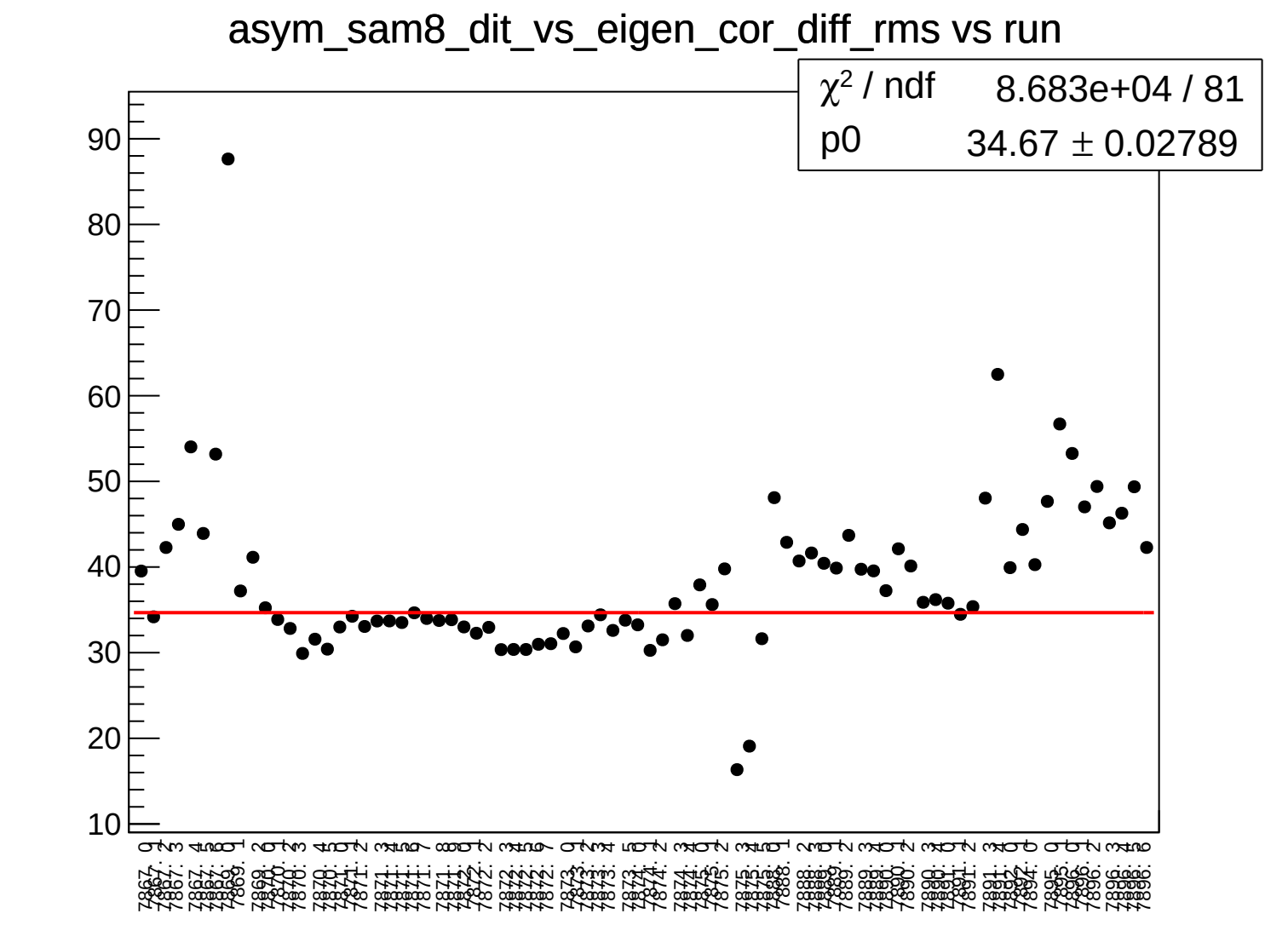

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 81
p0 0.1047 ± 0.03945
pull
Entries 82
Mean −697.8
Std Dev 0

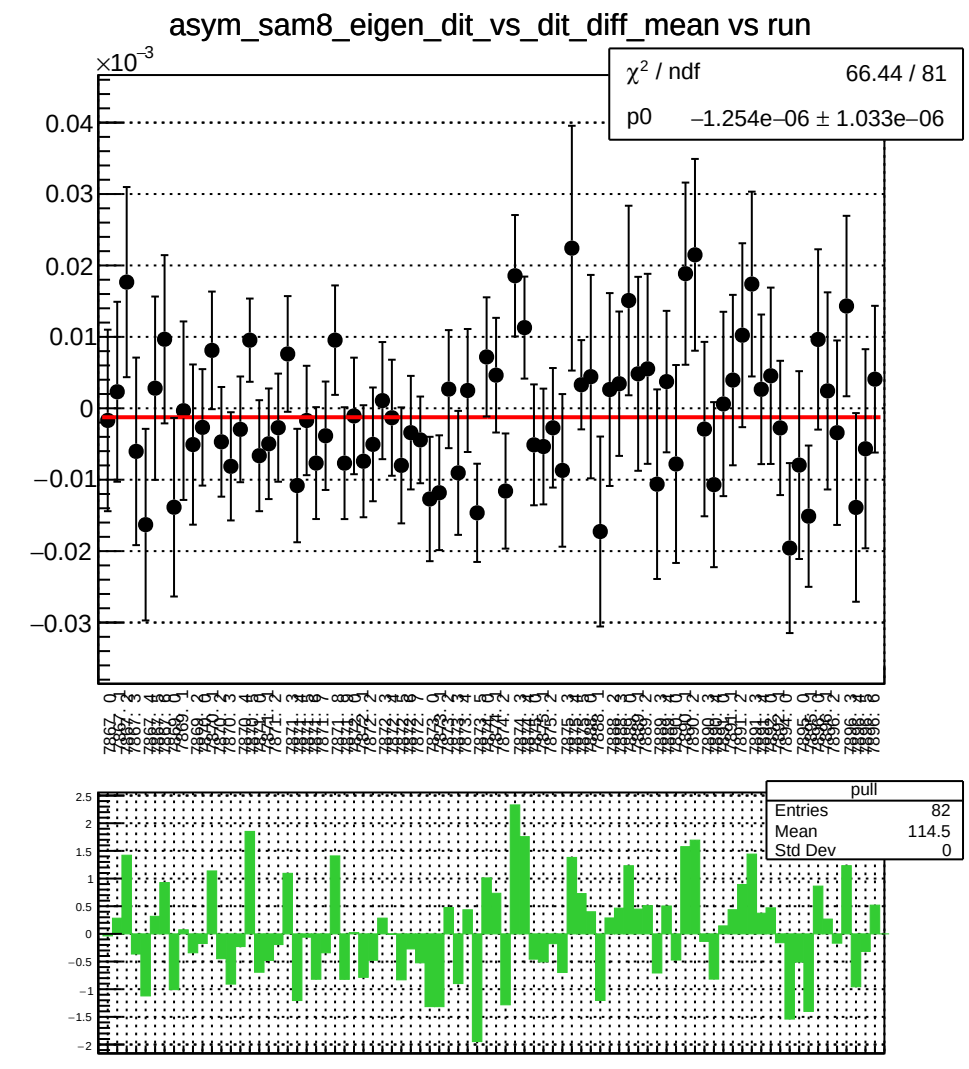

pull1D
Entries 82
Mean 0.005879
Std Dev 0.9705

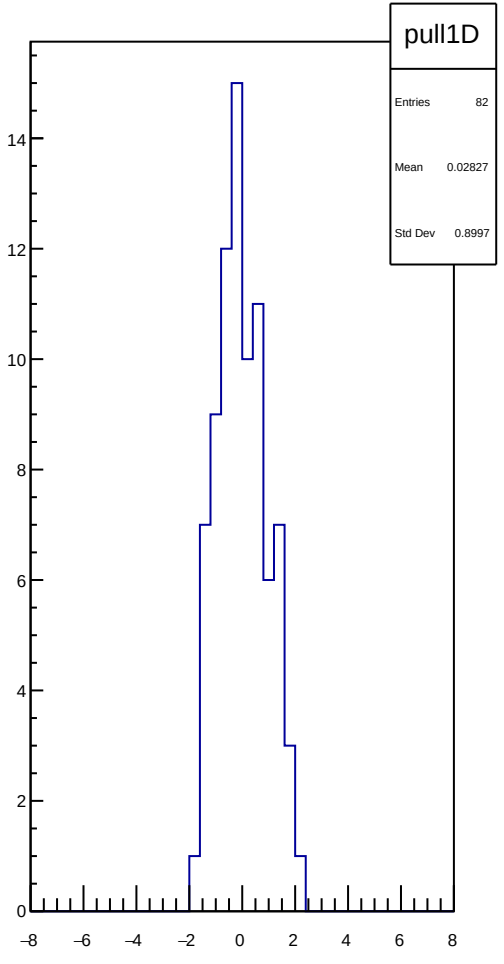

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 8.683e+04 / 81
p0 34.67 ± 0.02789
90
80
70
60
50
40
30
20
10

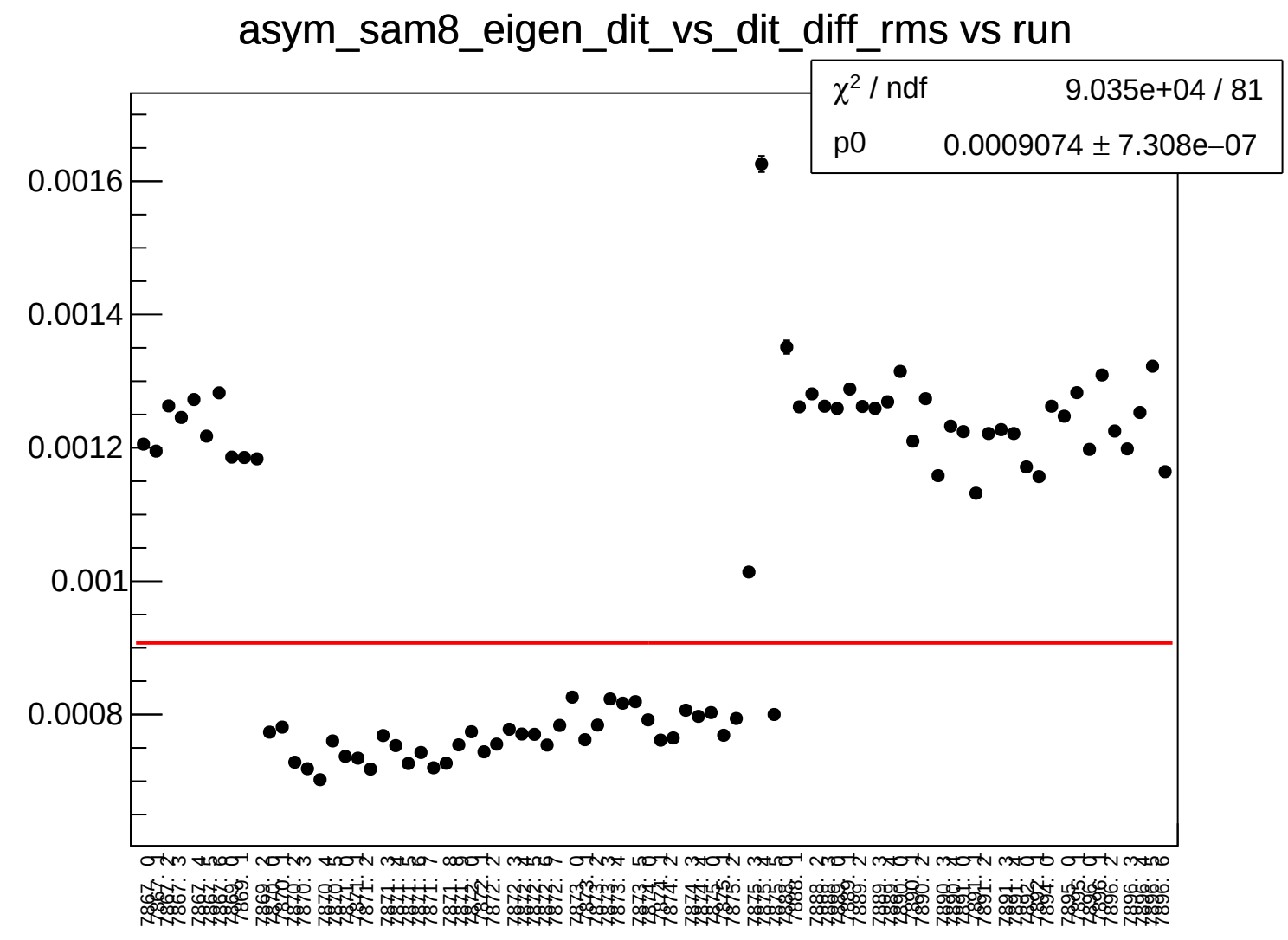

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.24 / 81
p0 0.1047 ± 0.03945
pull
Entries 82
Mean −697.8
Std Dev 0

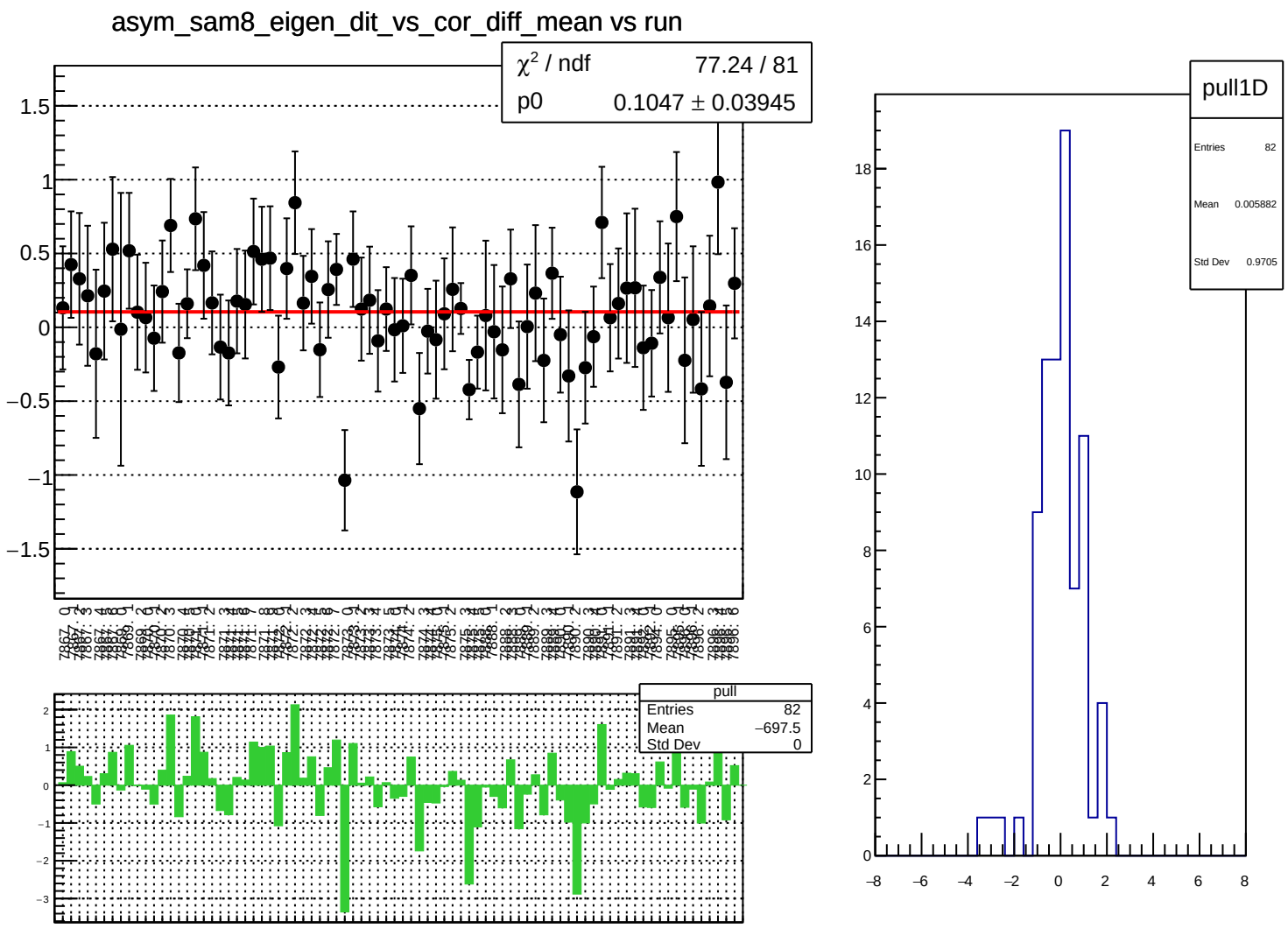

pull1D
Entries 82
Mean 0.005879
Std Dev 0.9705

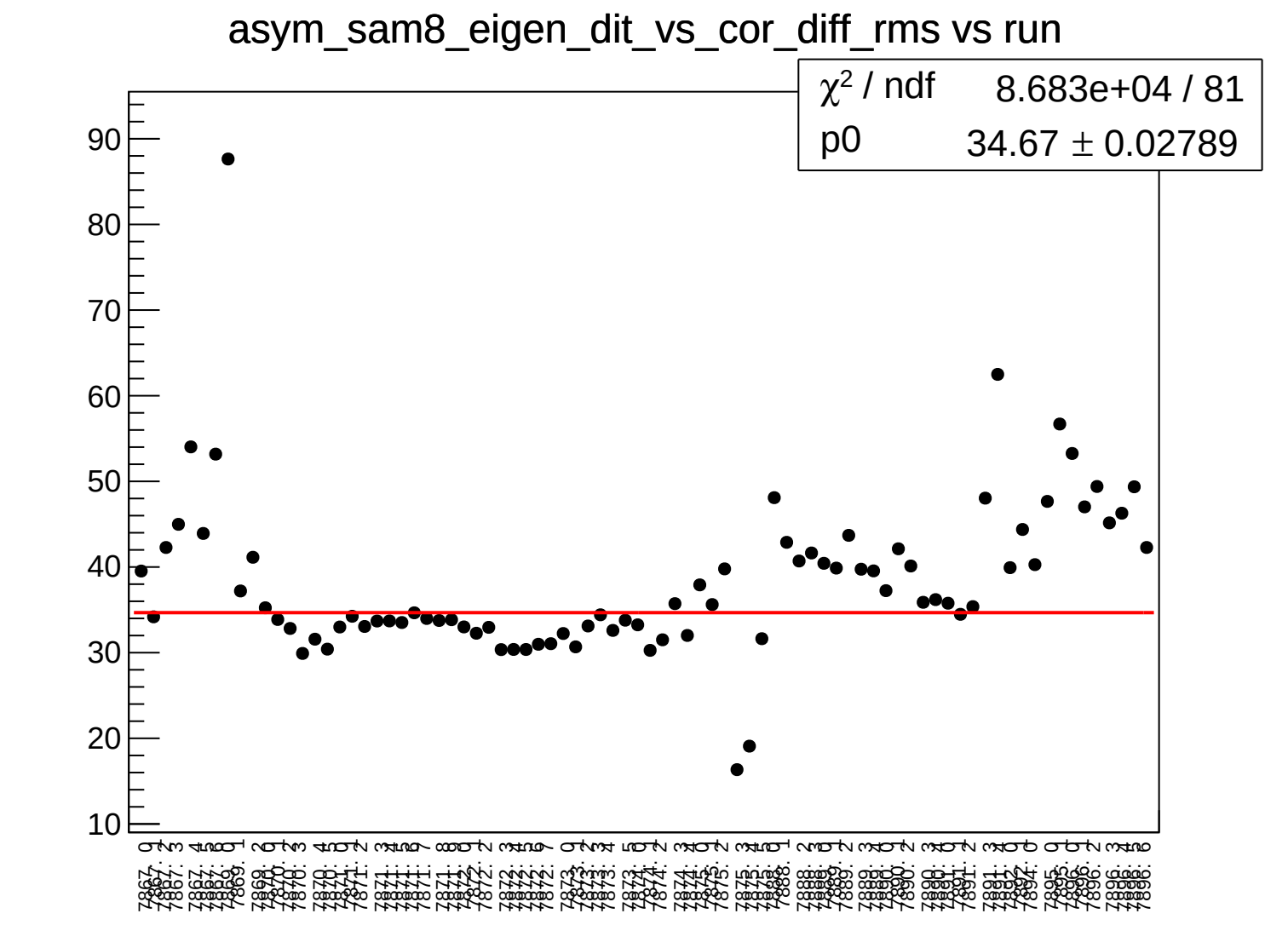

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.683e+04 / 81
p0 34.67 ± 0.02789
90
80
70
60
50
40
30
20
10

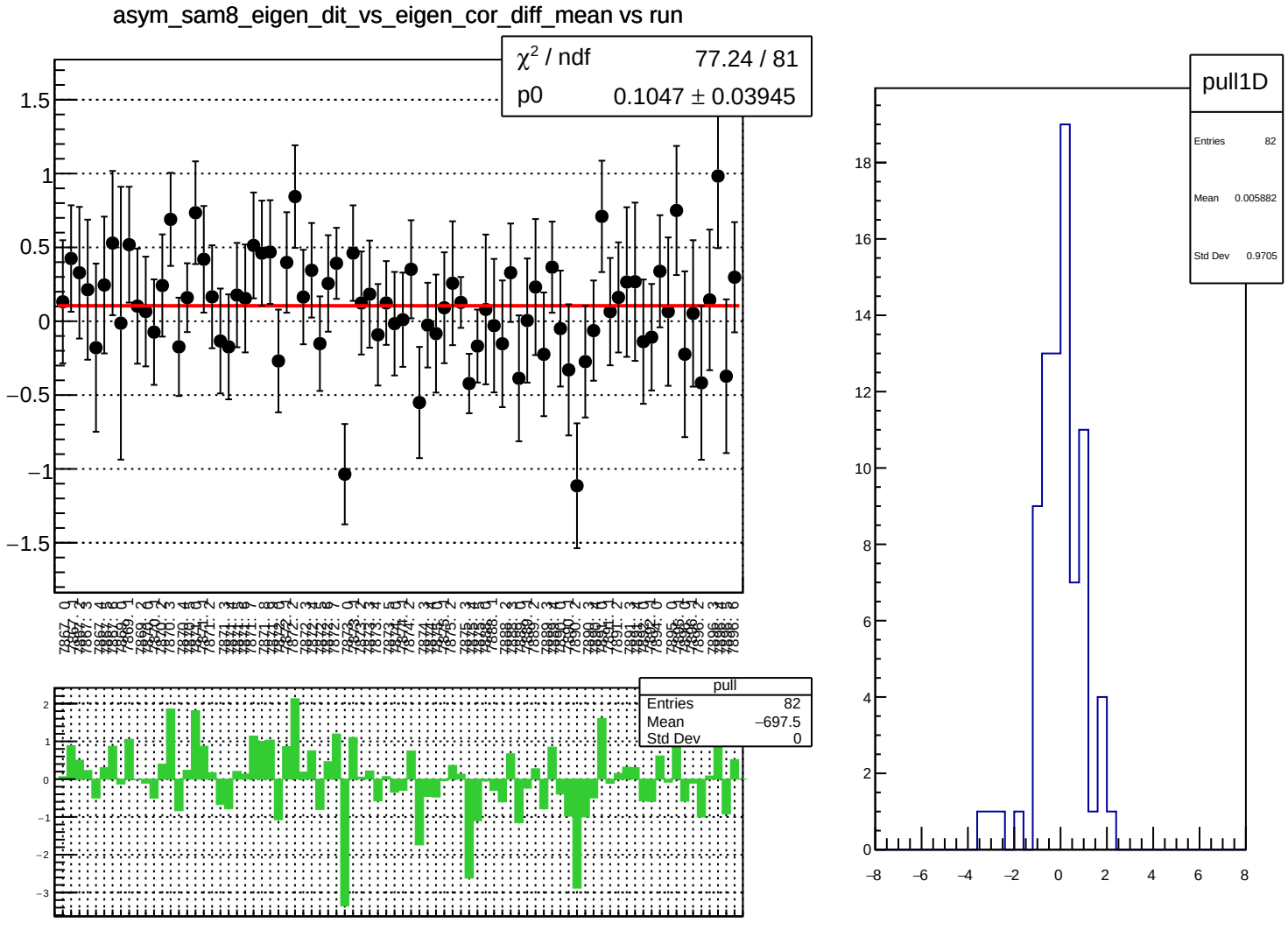

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.44 / 81
p0 −1.254e−06 ± 1.033e−06
pull
Entries 82
Mean 114.5
Std Dev 0

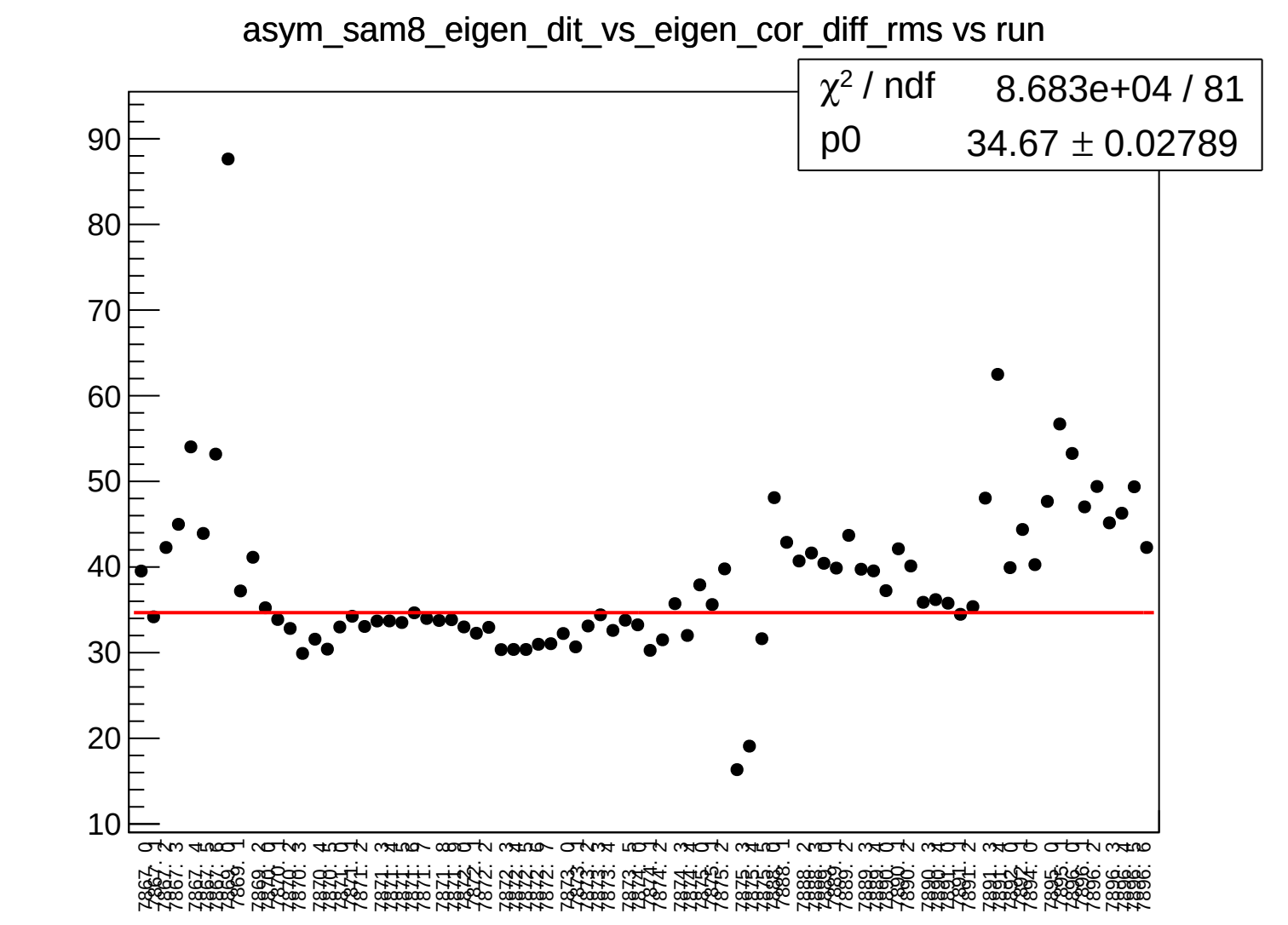

pull1D
Entries 82
Mean 0.02827
Std Dev 0.8997

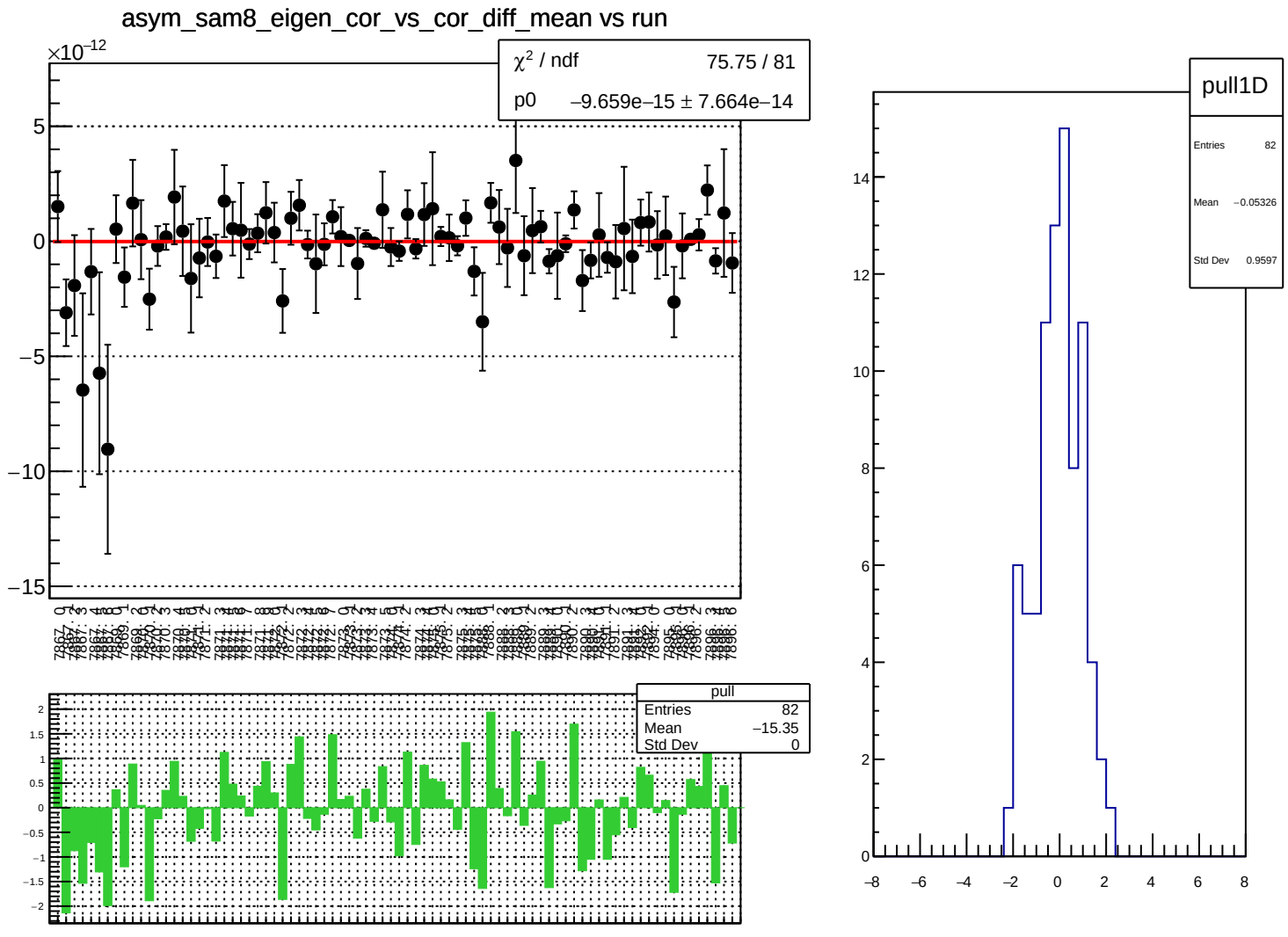

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.035e+04 / 81
p0 0.0009074 ± 7.308e−07
0.0016
0.0014
0.0012
0.001
0.0008

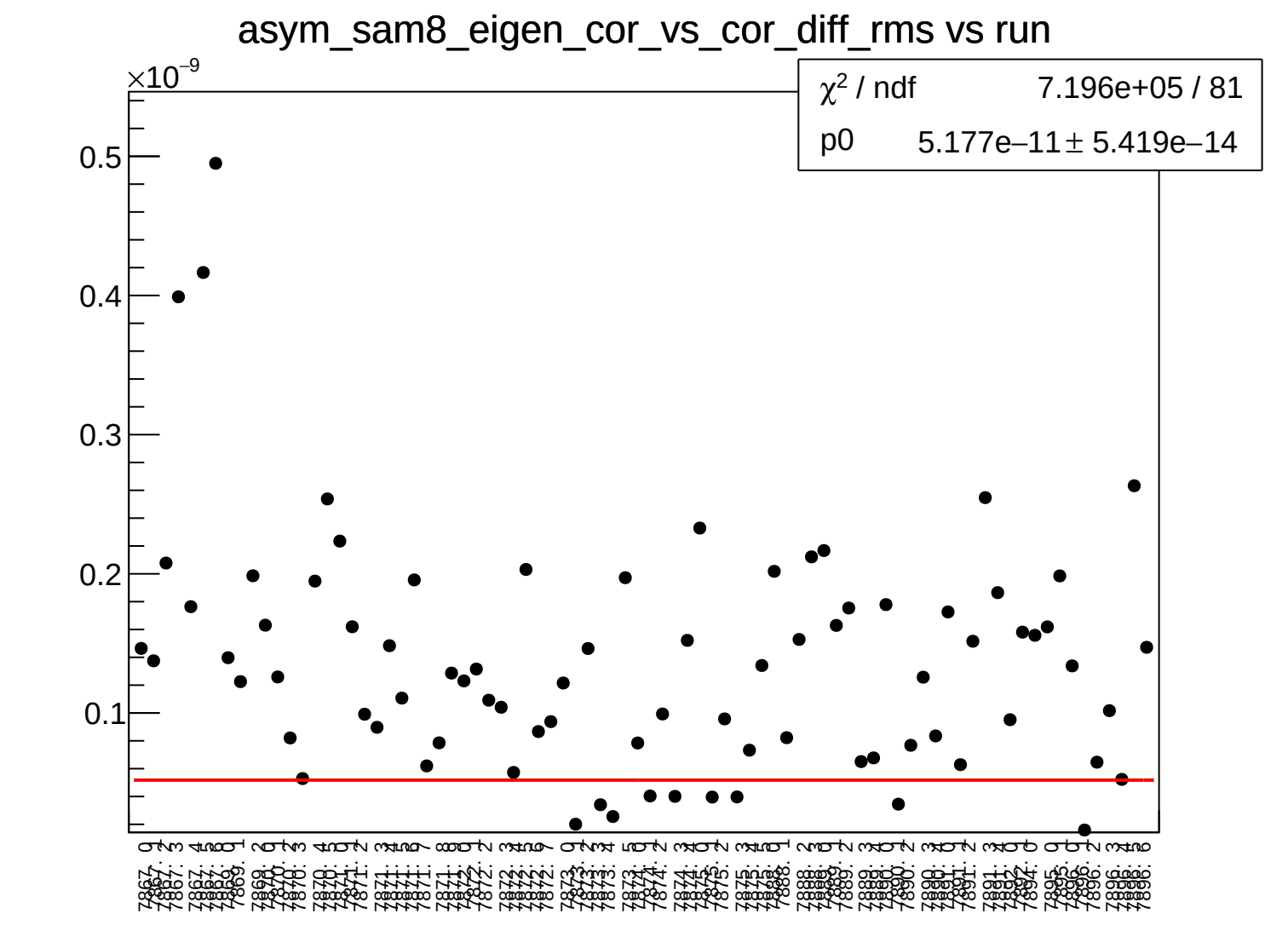

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 81
p0 0.1047 ± 0.03945
pull
Entries 82
Mean −697.5
Std Dev 0
pull1D
Entries 82
Mean 0.005882
Std Dev 0.9705

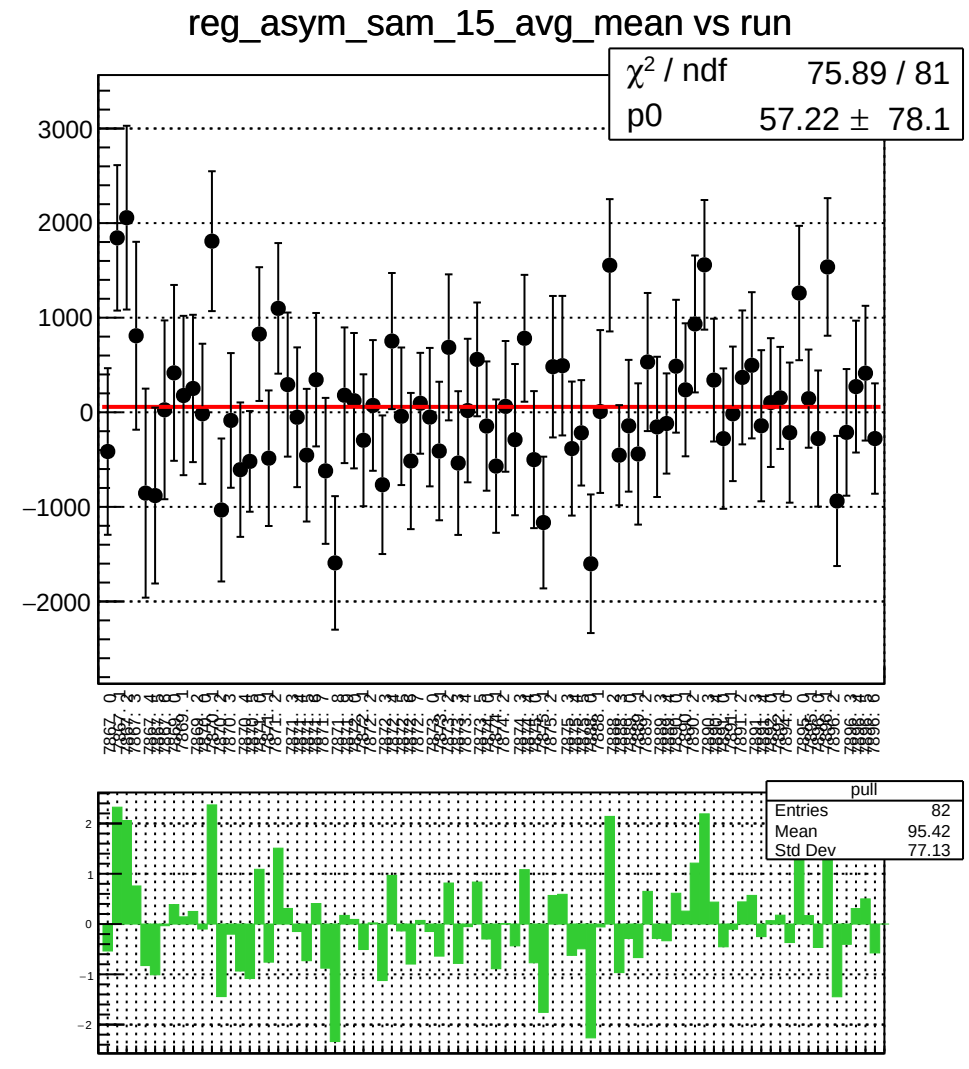

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.683e+04 / 81
p0 34.67 ± 0.02789
90
80
70
60
50
40
30
20
10

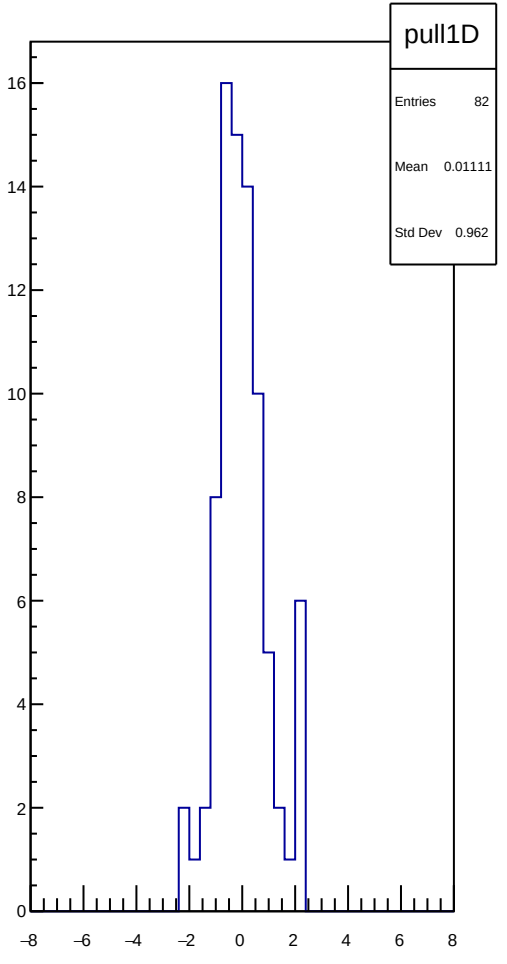

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.24 / 81
p0 0.1047 ± 0.03945
pull
Entries 82
Mean −697.5
Std Dev 0
pull1D
Entries 82
Mean 0.005882
Std Dev 0.9705

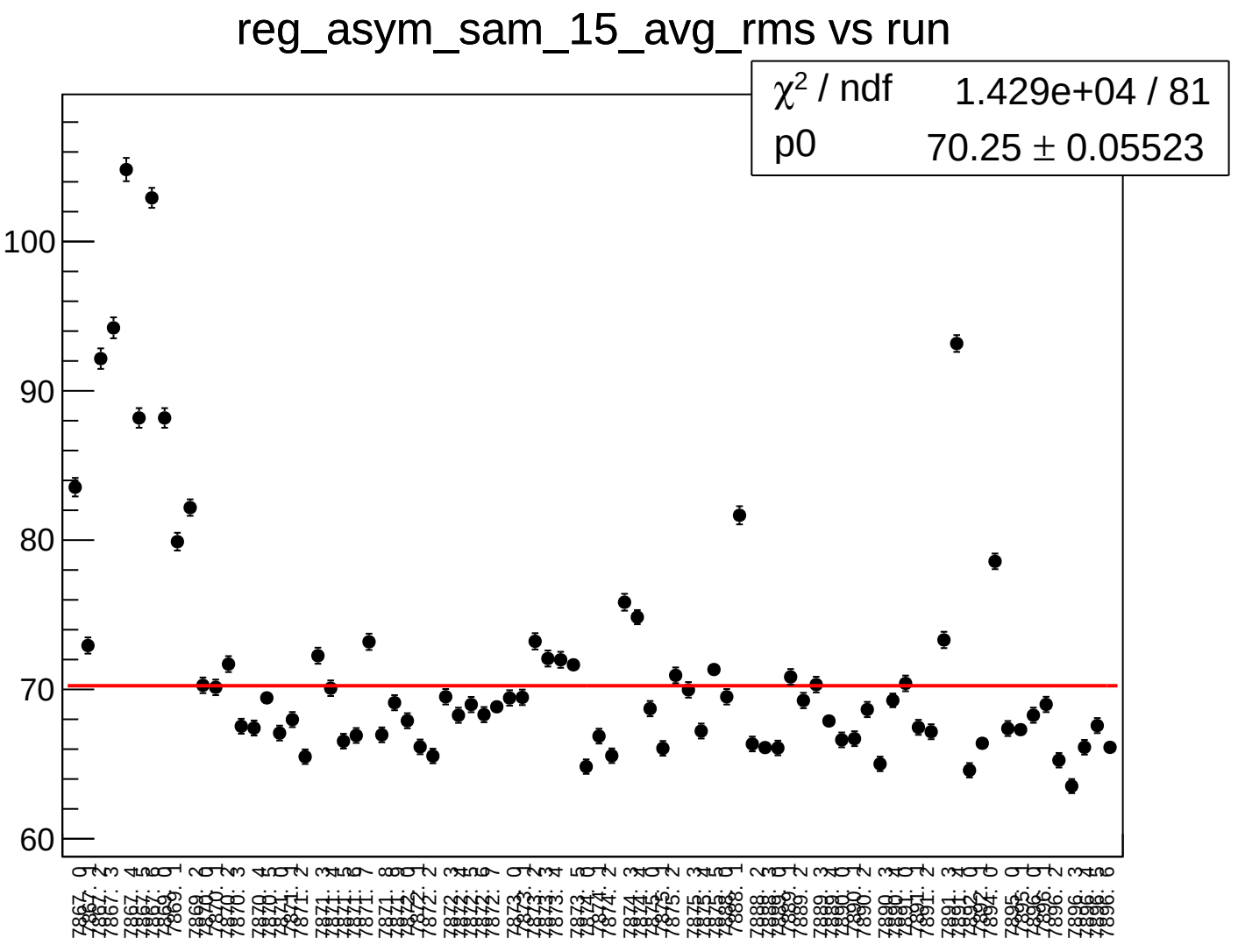

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.683e+04 / 81
p0 34.67 ± 0.02789
90
80
70
60
50
40
30
20
10

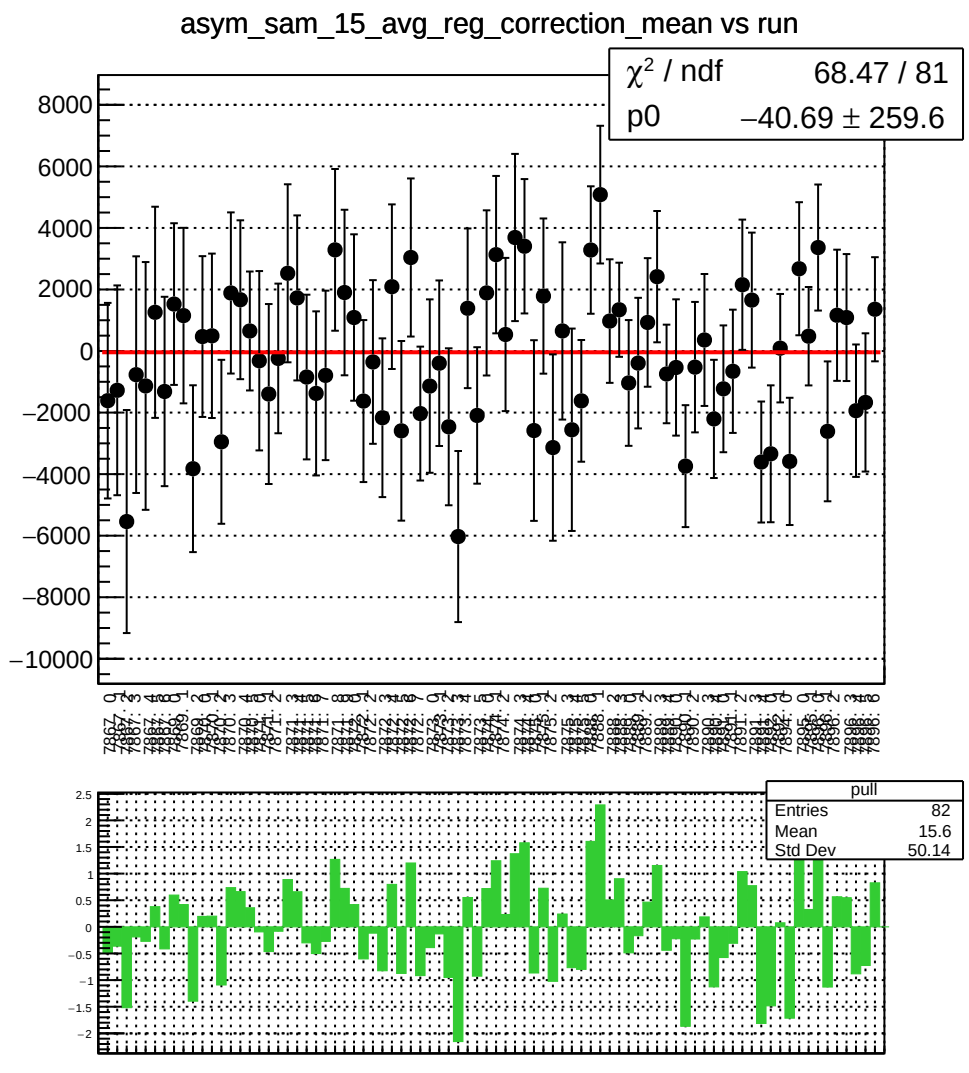

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.75 / 81
p0 −9.659e−15 ± 7.664e−14
pull
Entries 82
Mean −15.35
Std Dev 0
pull1D
Entries 82
Mean −0.05326
Std Dev 0.9597

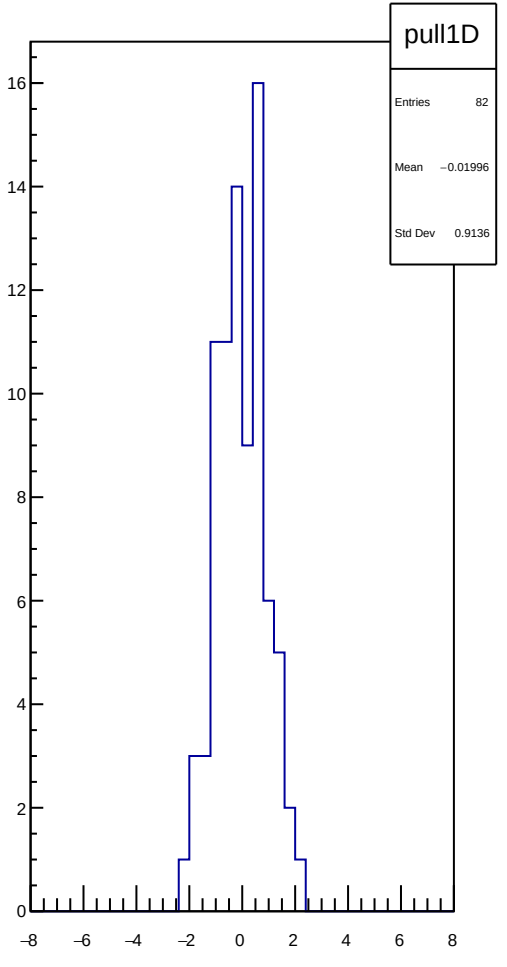

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.196e+05 / 81
p0 5.177e−11 ± 5.419e−14
0.5
0.4
0.3
0.2
0.1

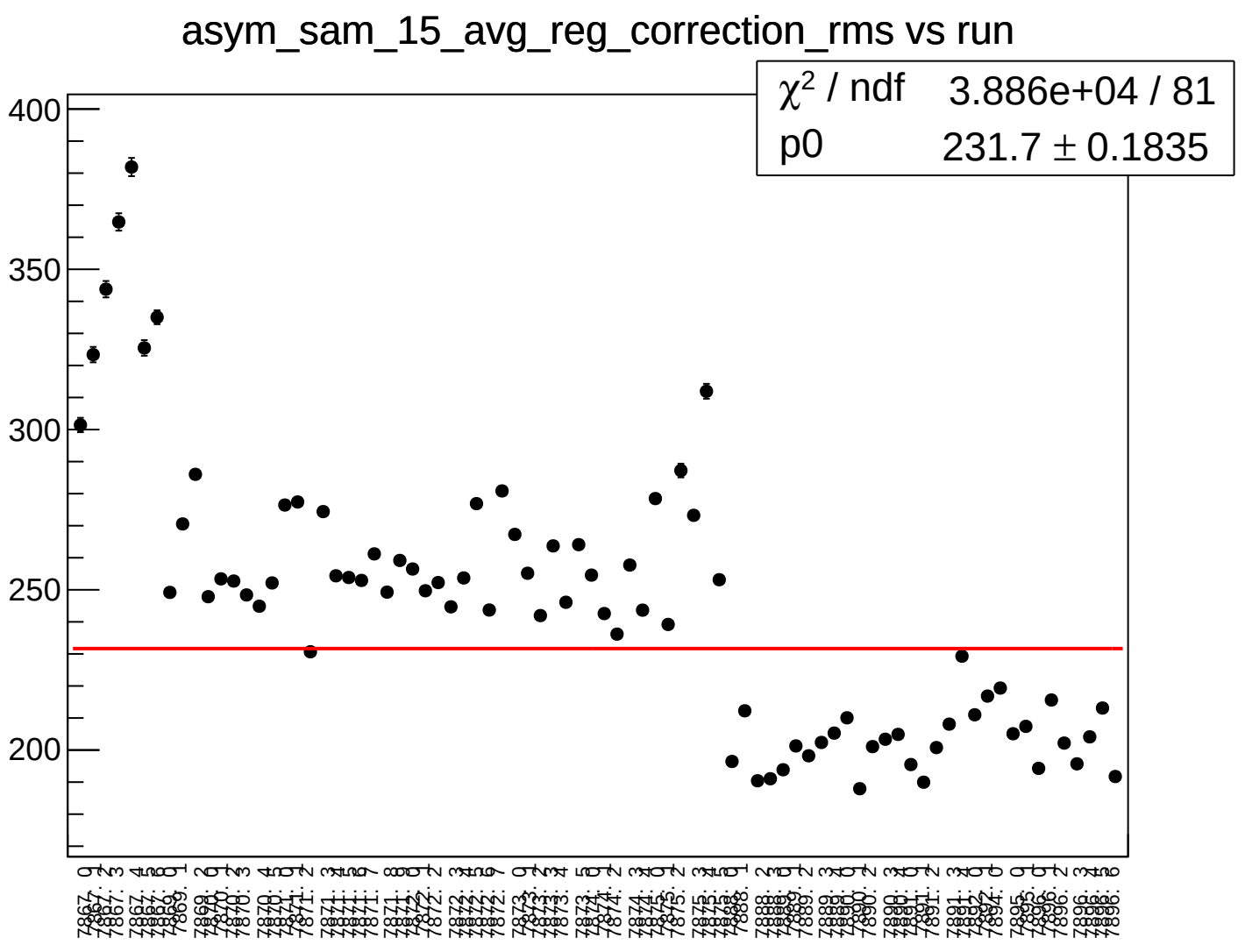

reg_asym_sam_15_avg_mean vs run
χ² / ndf 75.89 / 81
p0 57.22 ± 78.1
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 95.42
Std Dev 77.13
2
1
0
−1
−2

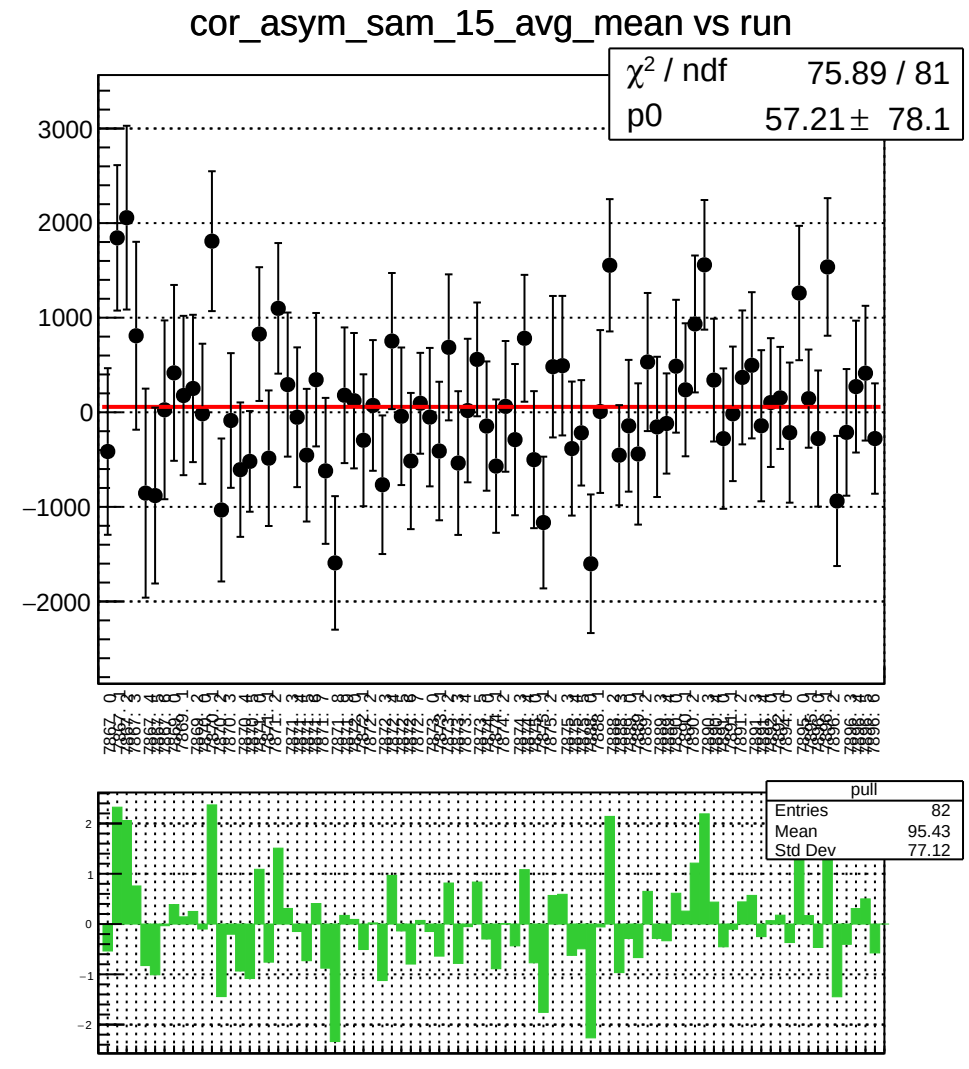

pull1D
Entries 82
Mean 0.01111
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

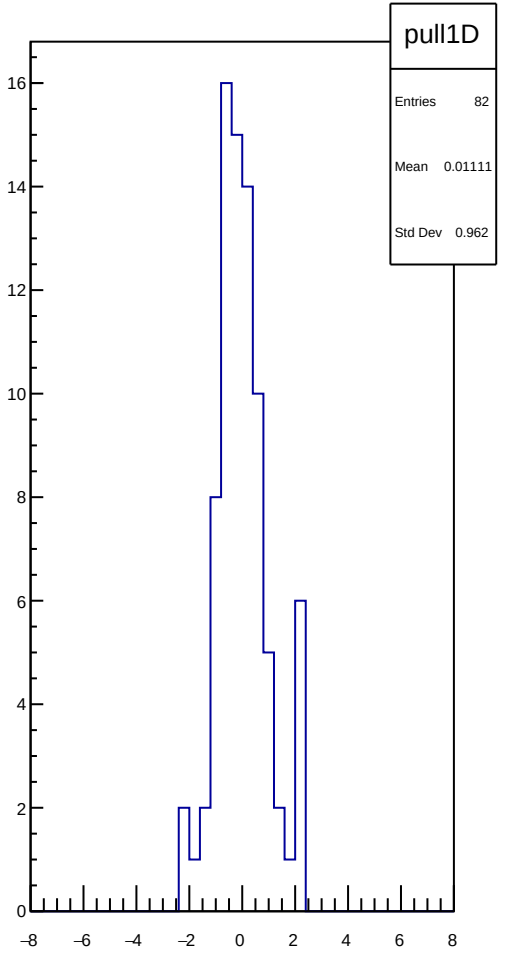

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.429e+04 / 81
p0 70.25 ± 0.05523
100
90
80
70
60

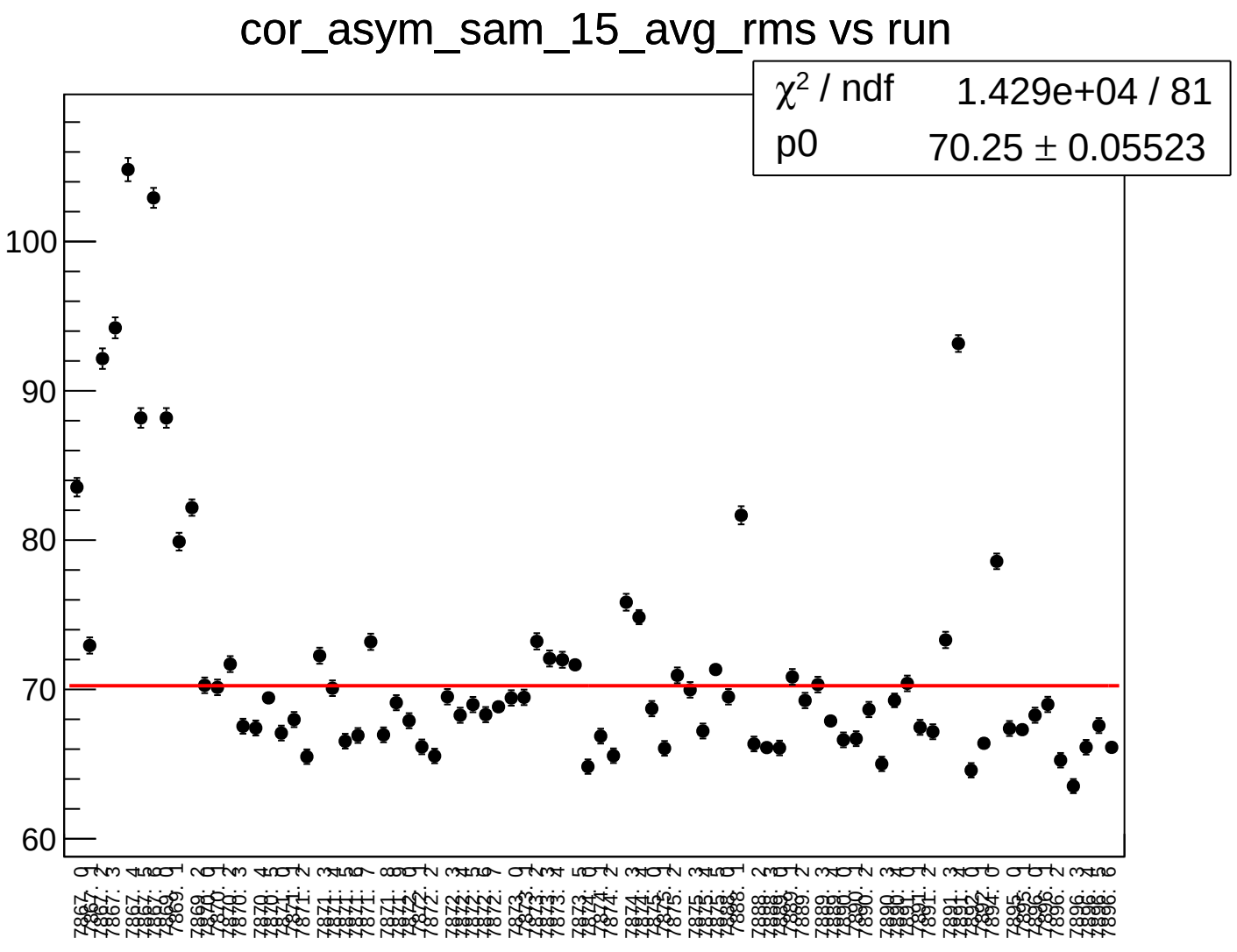

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 68.47 / 81
p0 −40.69 ± 259.6
pull
Entries 82
Mean 15.6
Std Dev 50.14

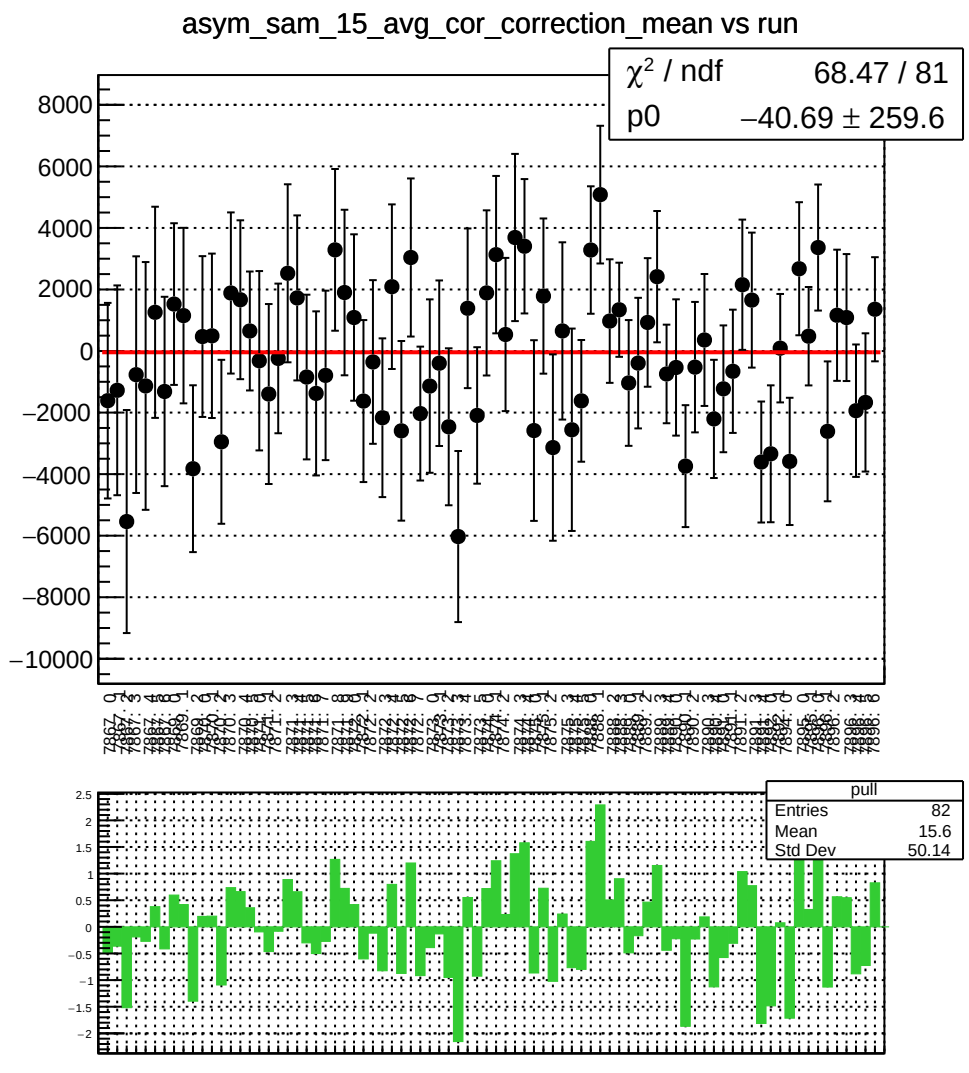

pull1D
Entries 82
Mean −0.01996
Std Dev 0.9136

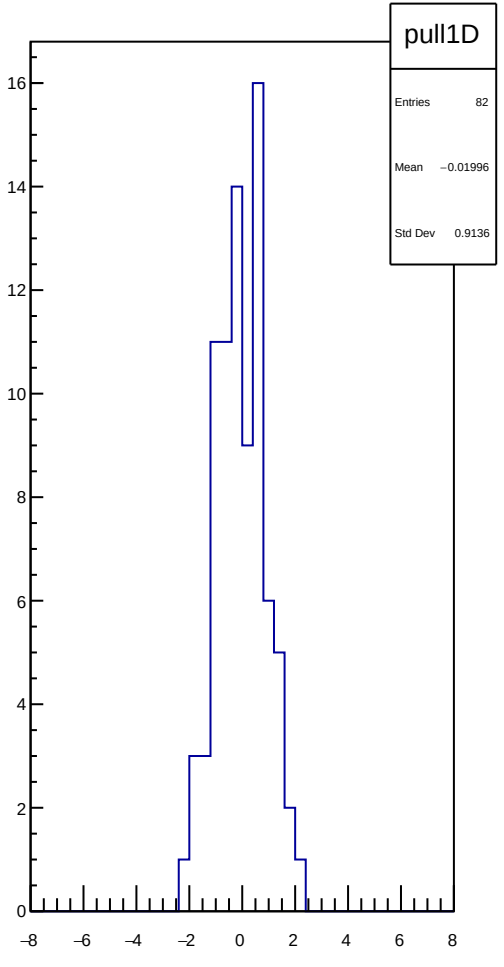

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3.886e+04 / 81
p0 231.7 ± 0.1835
400
350
300
250
200

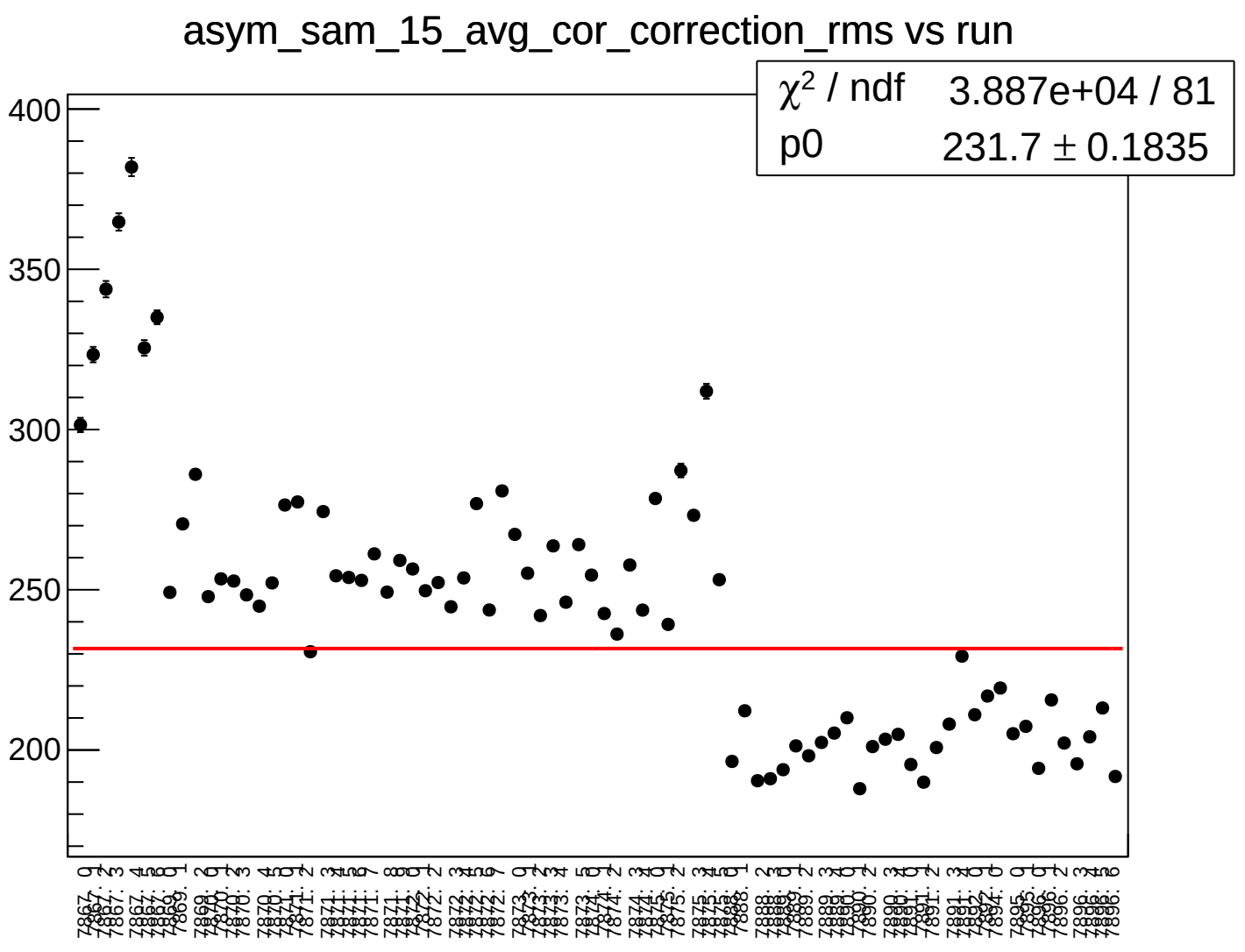

cor_asym_sam_15_avg_mean vs run
χ² / ndf 75.89 / 81
p0 57.21 ± 78.1
pull
Entries 82
Mean 95.43
Std Dev 77.12

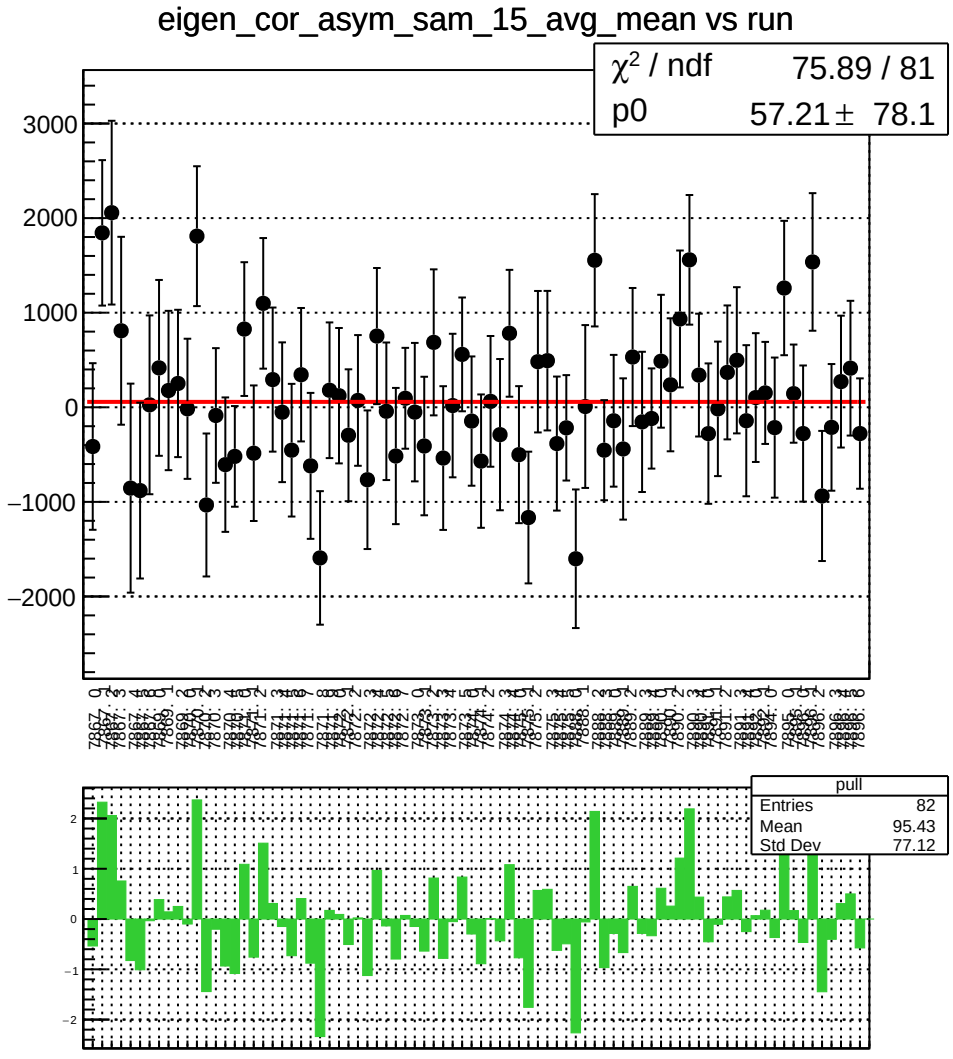

pull1D
Entries 82
Mean 0.01111
Std Dev 0.962

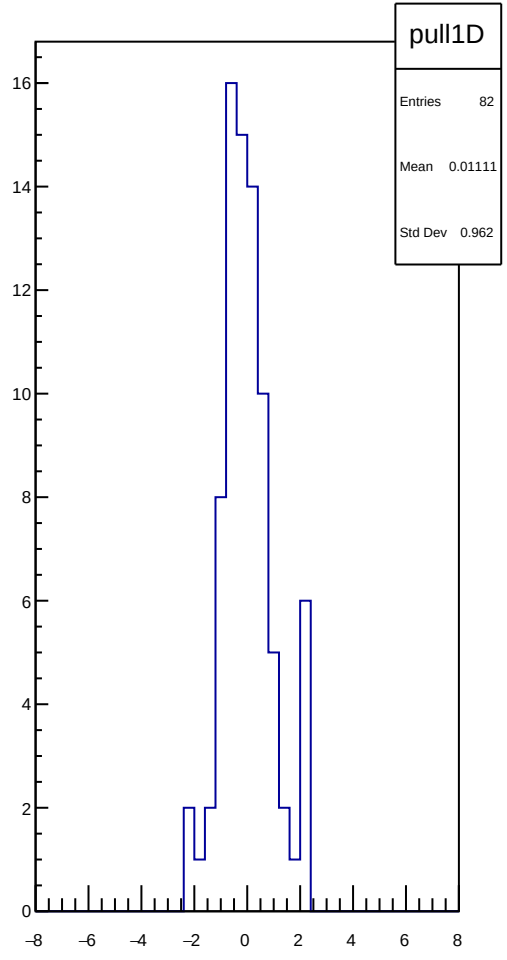

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.429e+04 / 81
p0 70.25 ± 0.05523
100
90
80
70
60

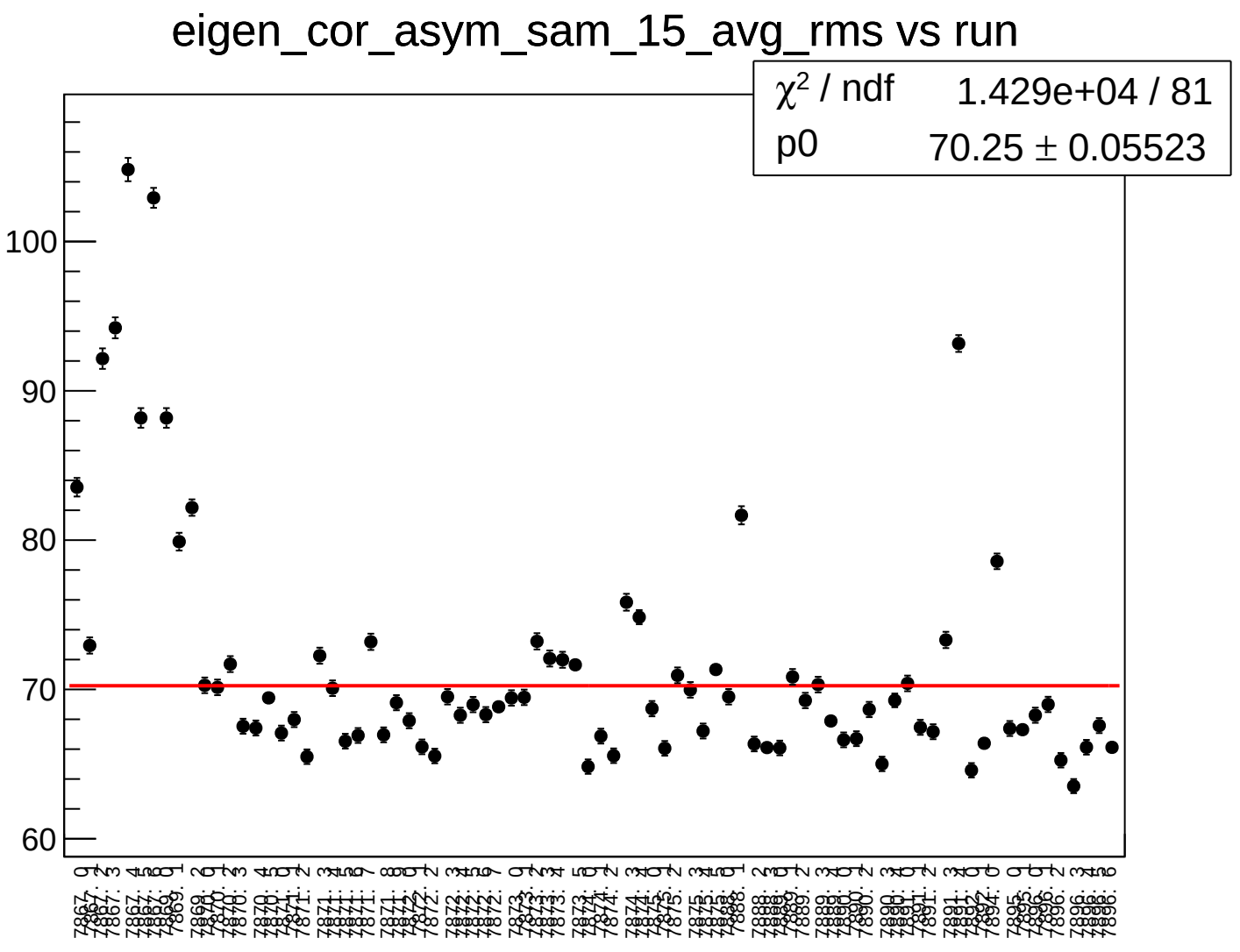

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 68.47 / 81
p0 −40.69 ± 259.6
pull
Entries 82
Mean 15.6
Std Dev 50.14

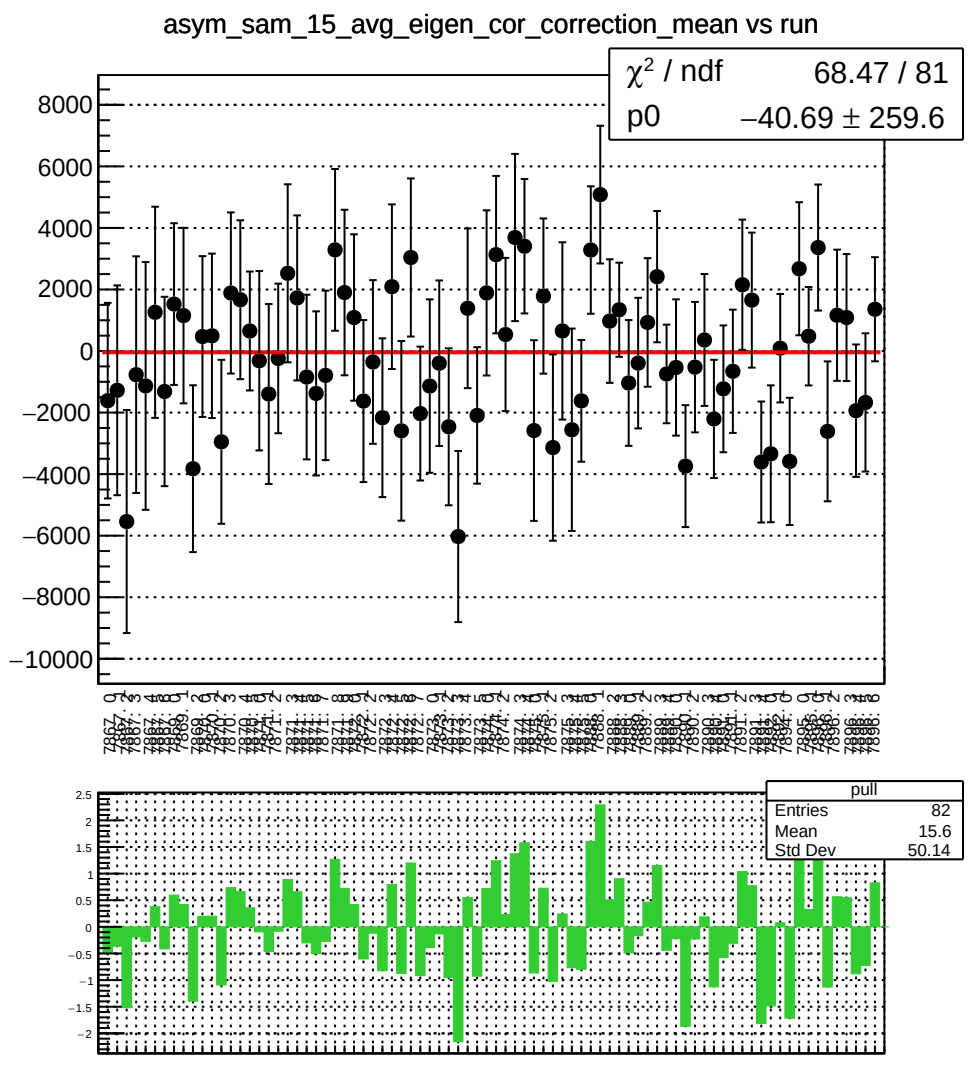

pull1D
Entries 82
Mean −0.01996
Std Dev 0.9136

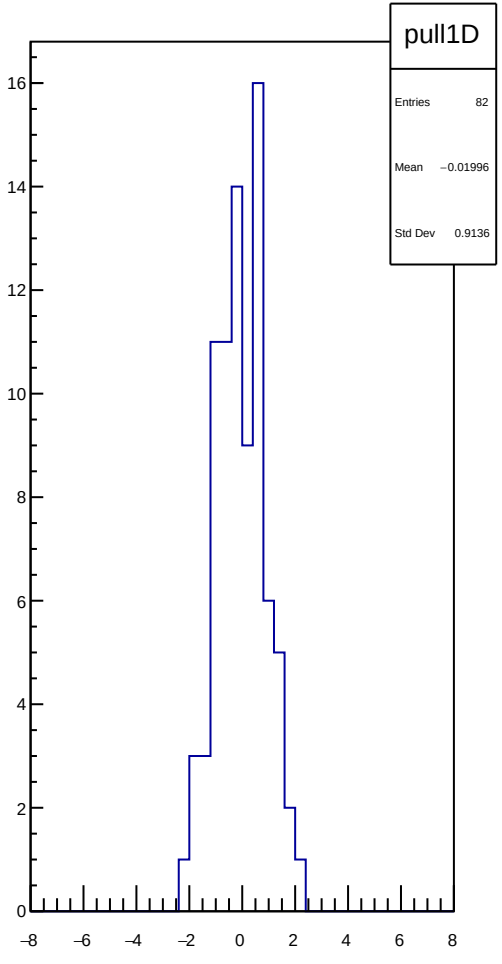

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 3.887e+04 / 81
p0 231.7 ± 0.1835
400
350
300
250
200

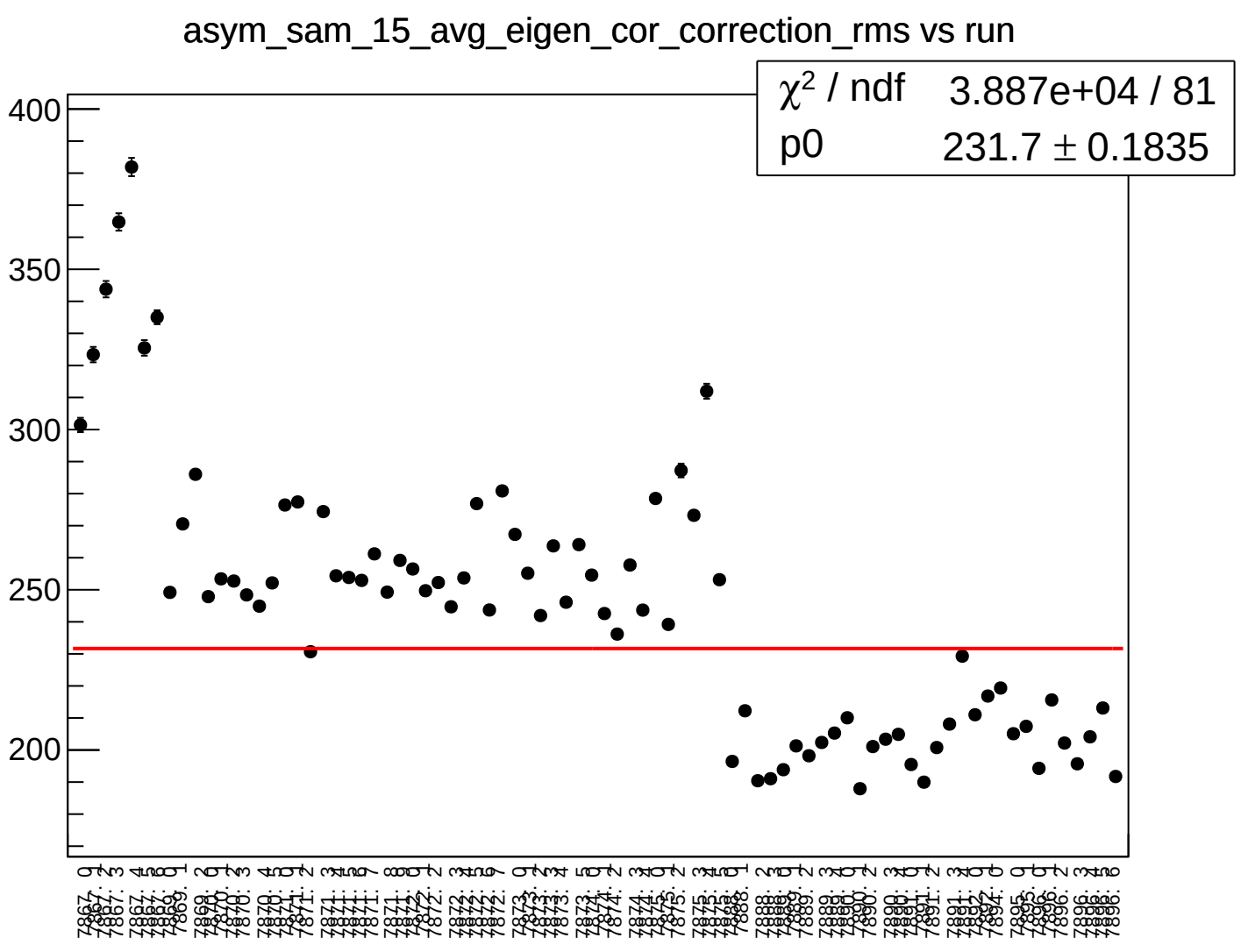

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 75.89 / 81
p0 57.21 ± 78.1
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 95.43
Std Dev 77.12
2
1
0
−1
−2

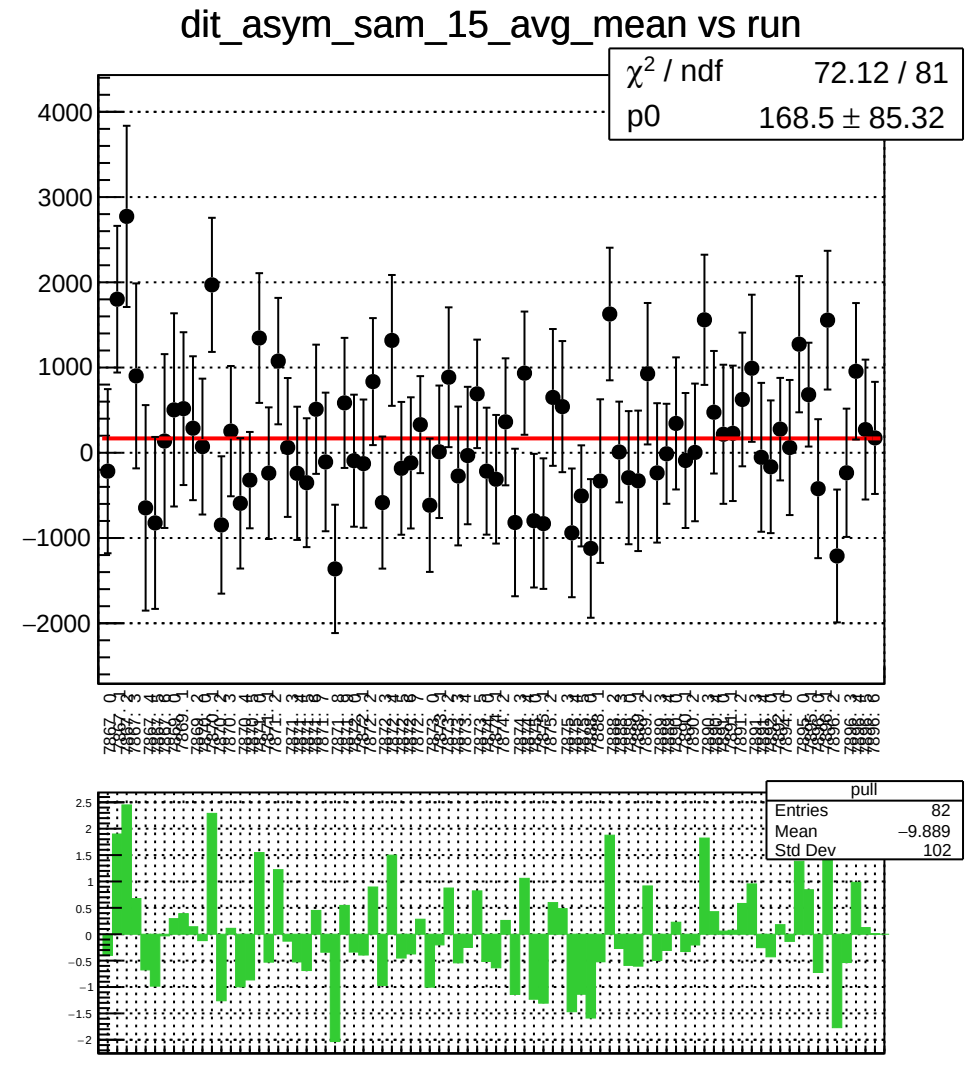

pull1D
Entries 82
Mean 0.01111
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

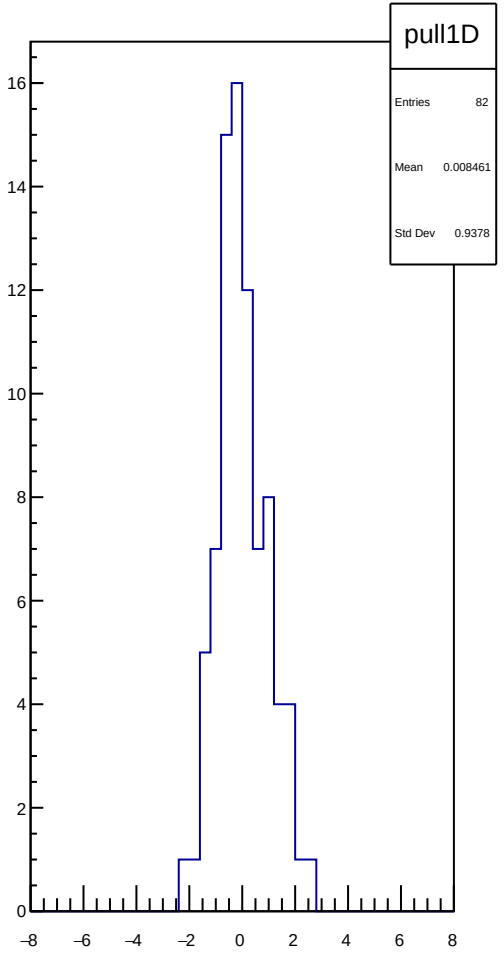

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.429e+04 / 81
p0 70.25 ± 0.05523
100
90
80
70
60

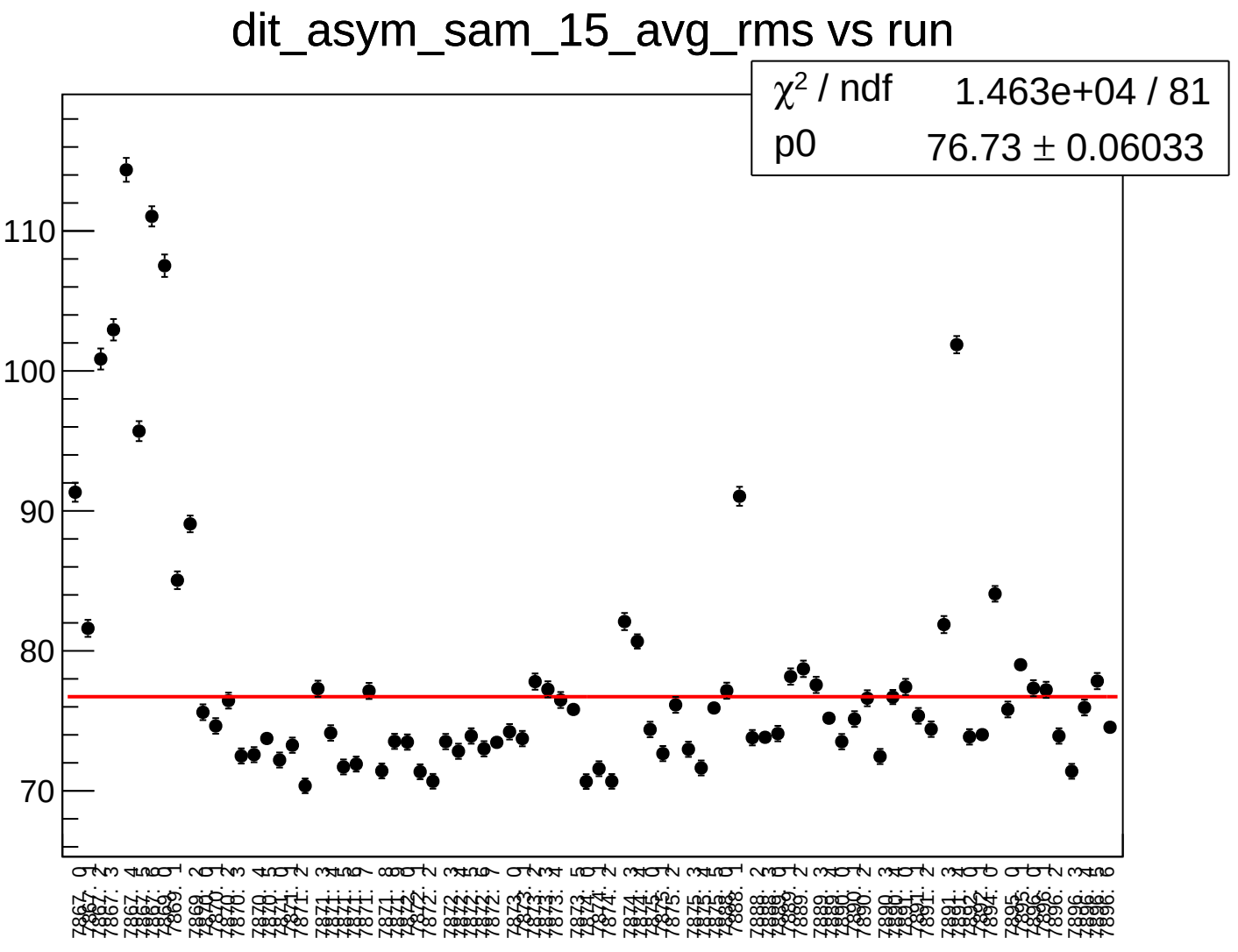

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.47 / 81
p0 −40.69 ± 259.6
pull
Entries 82
Mean 15.6
Std Dev 50.14

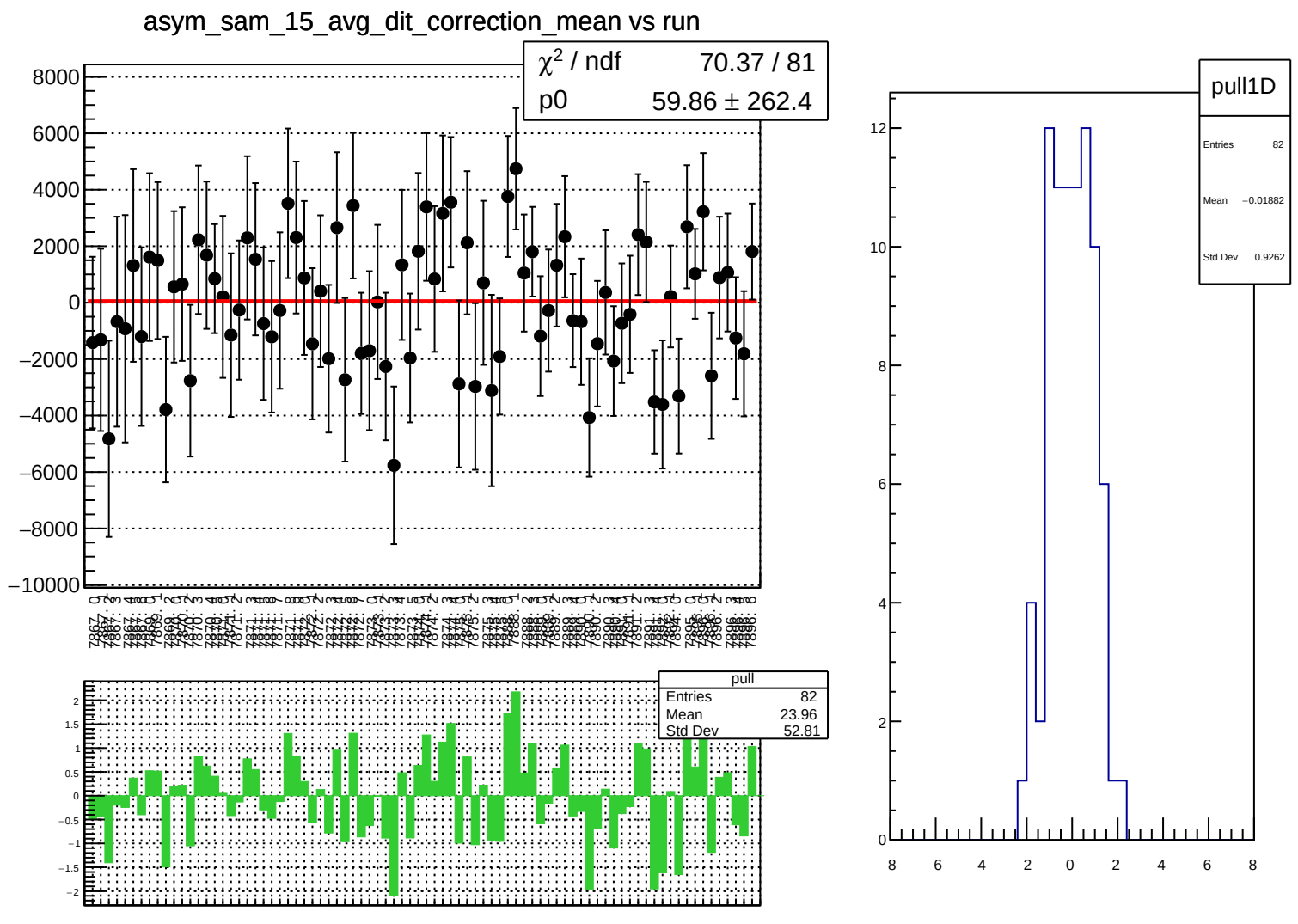

pull1D
Entries 82
Mean −0.01996
Std Dev 0.9136

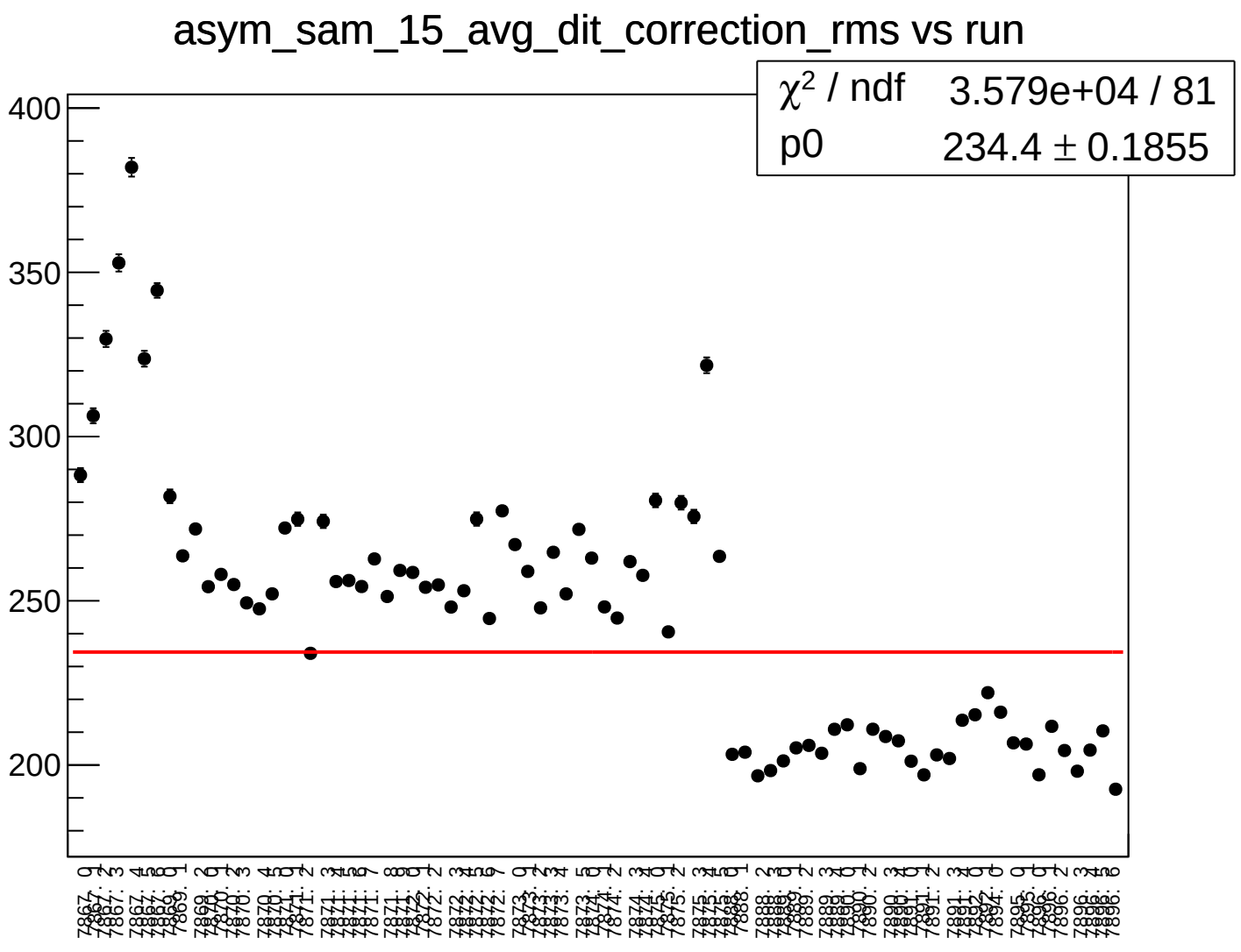

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.887e+04 / 81
p0 231.7 ± 0.1835
400
350
300
250
200

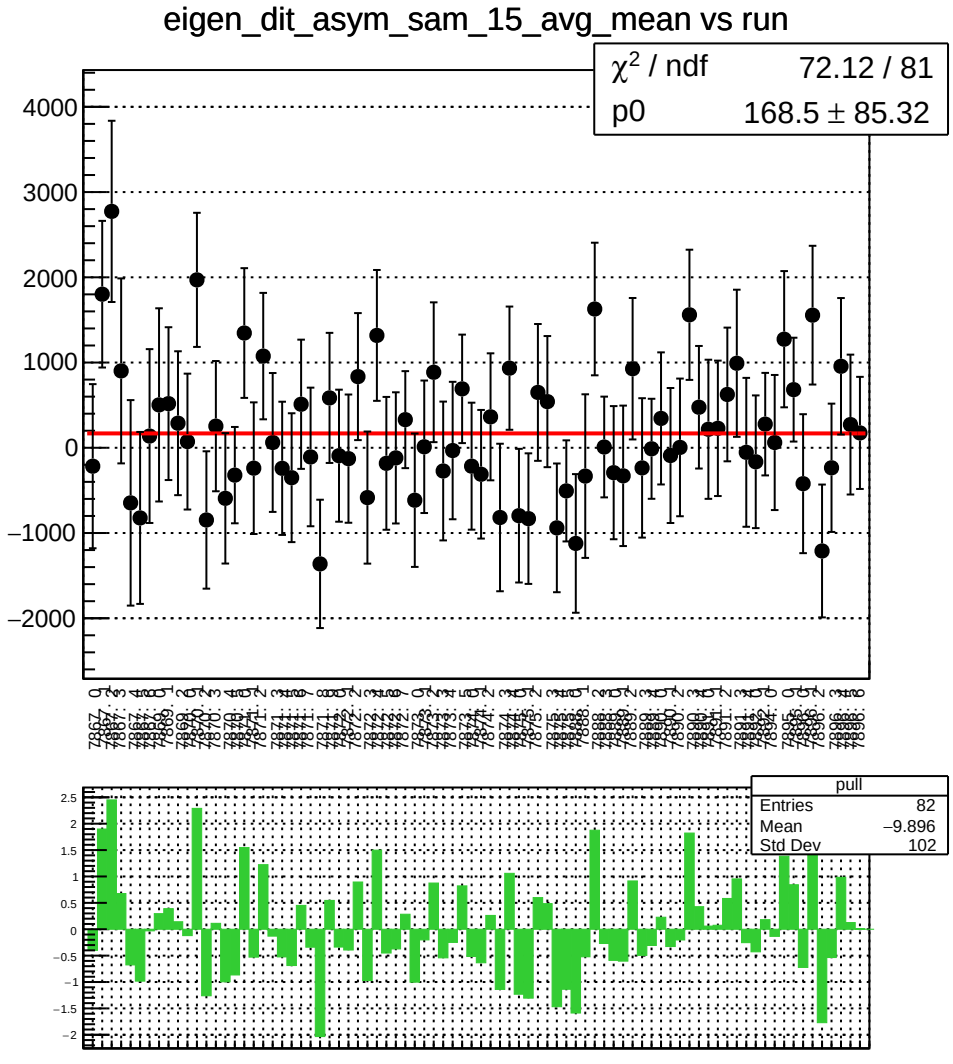

dit_asym_sam_15_avg_mean vs run
χ² / ndf 72.12 / 81
p0 168.5 ± 85.32
pull
Entries 82
Mean −9.889
Std Dev 102

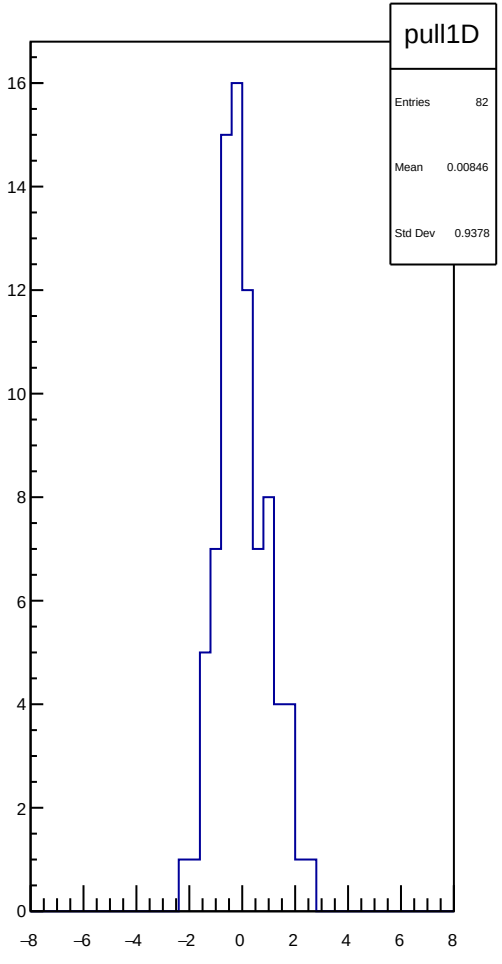

pull1D
Entries 82
Mean 0.008461
Std Dev 0.9378

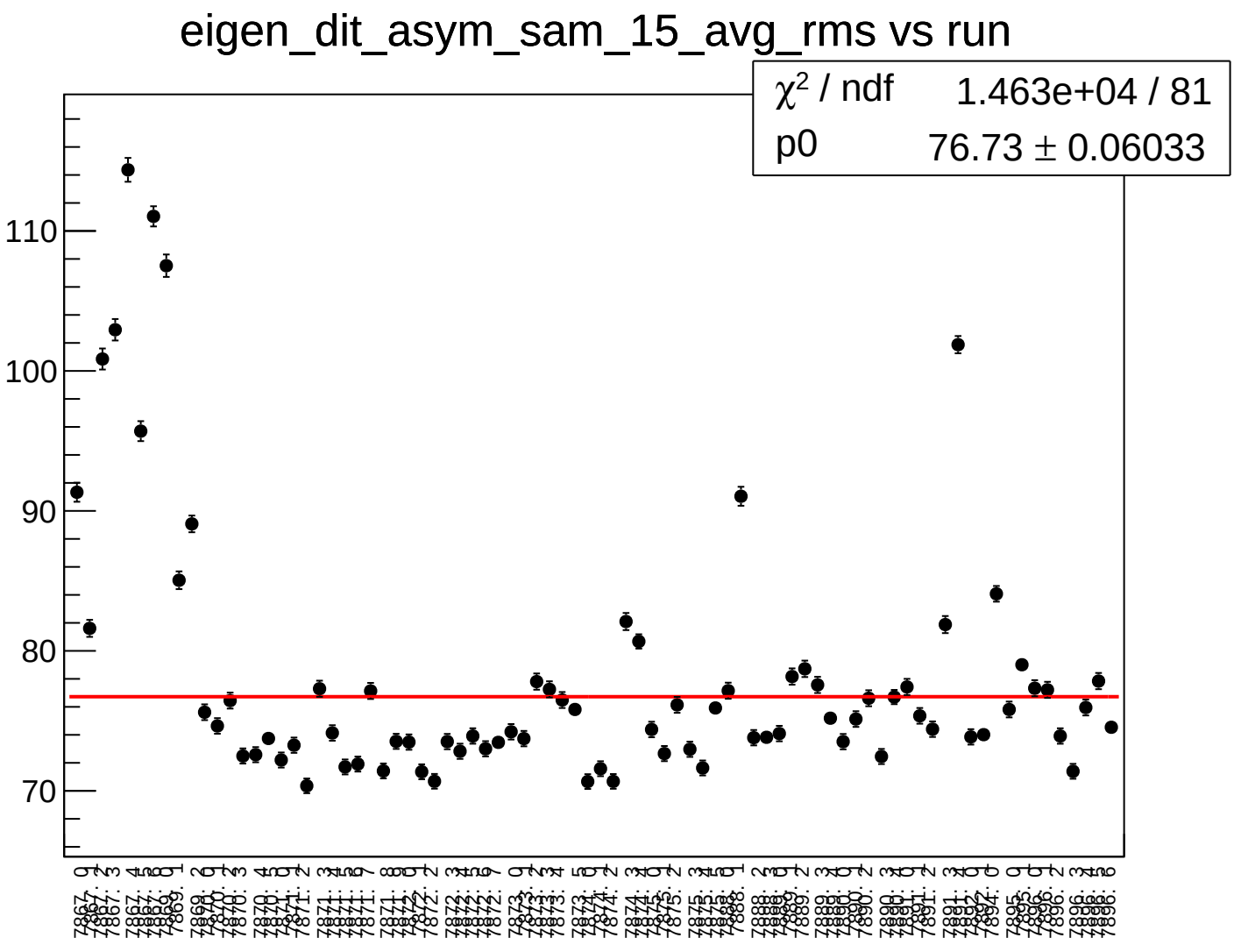

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.463e+04 / 81
p0 76.73 ± 0.06033
110
100
90
80
70

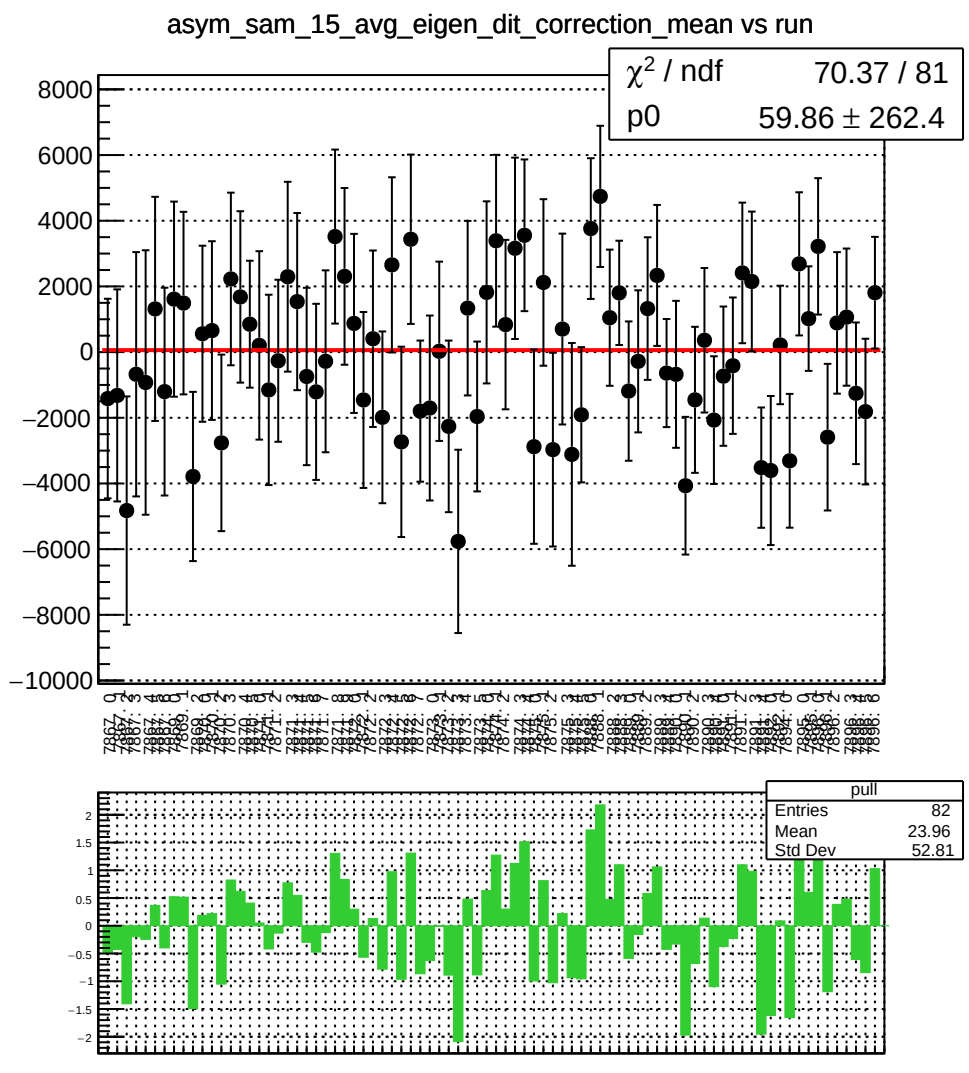

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 70.37 / 81
p0 59.86 ± 262.4
pull
Entries 82
Mean 23.96
Std Dev 52.81
pull1D
Entries 82
Mean −0.01882
Std Dev 0.9262

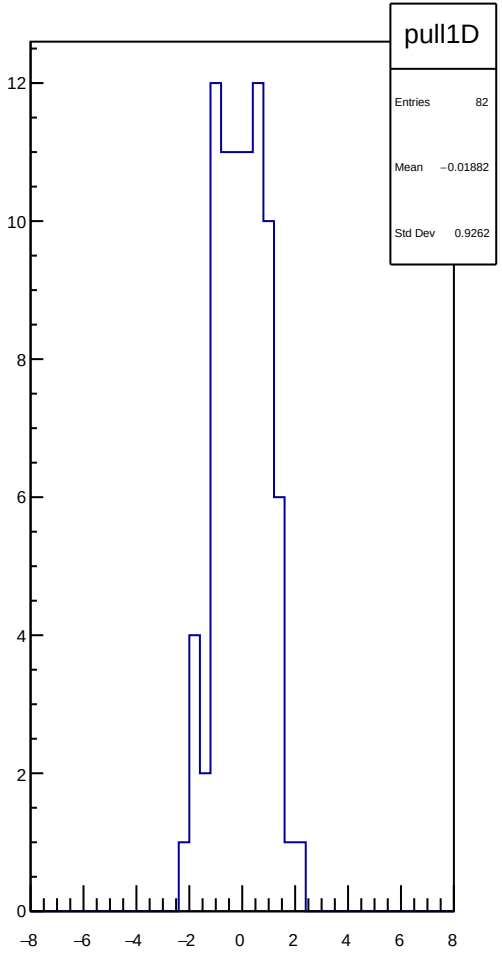

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3.579e+04 / 81
p0 234.4 ± 0.1855
400
350
300
250
200

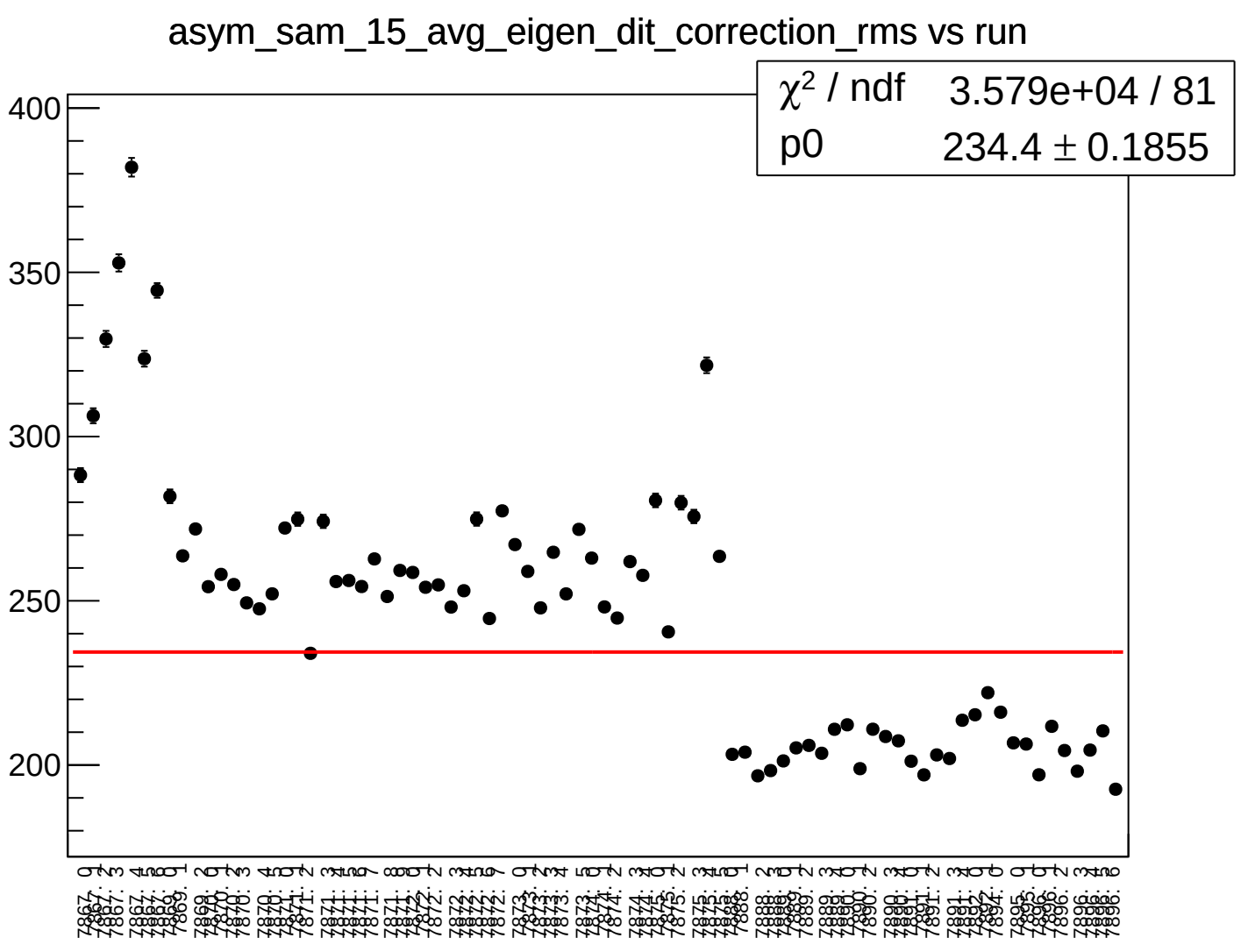

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 72.12 / 81
p0 168.5 ± 85.32
pull
Entries 82
Mean −9.896
Std Dev 102

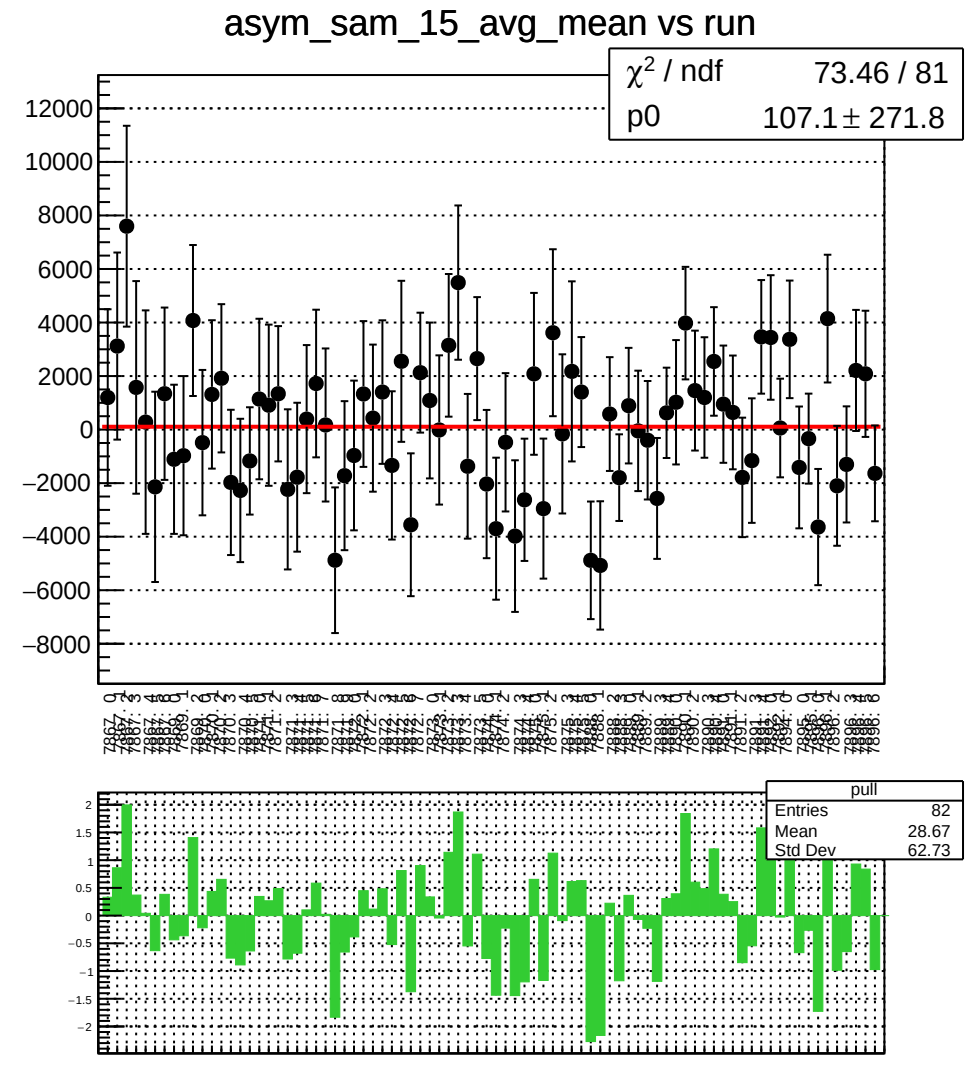

pull1D
Entries 82
Mean 0.00846
Std Dev 0.9378

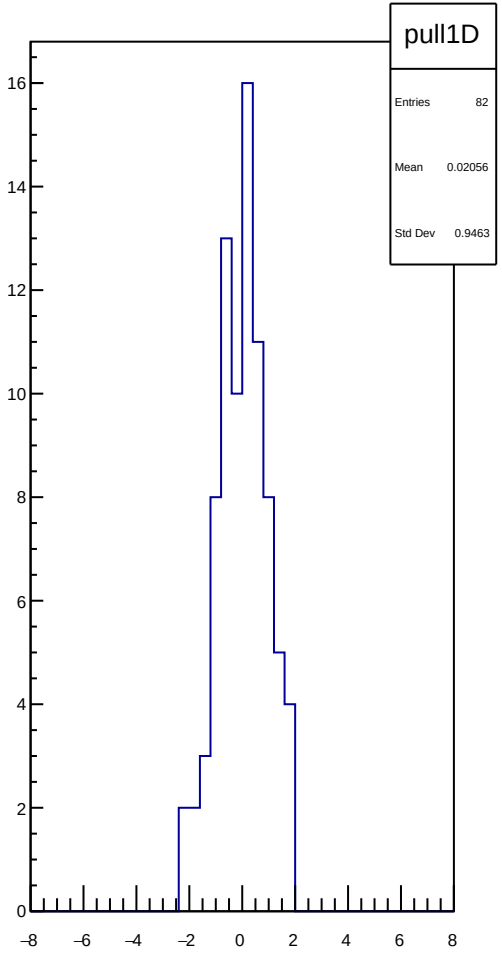

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.463e+04 / 81
p0 76.73 ± 0.06033
110
100
90
80
70

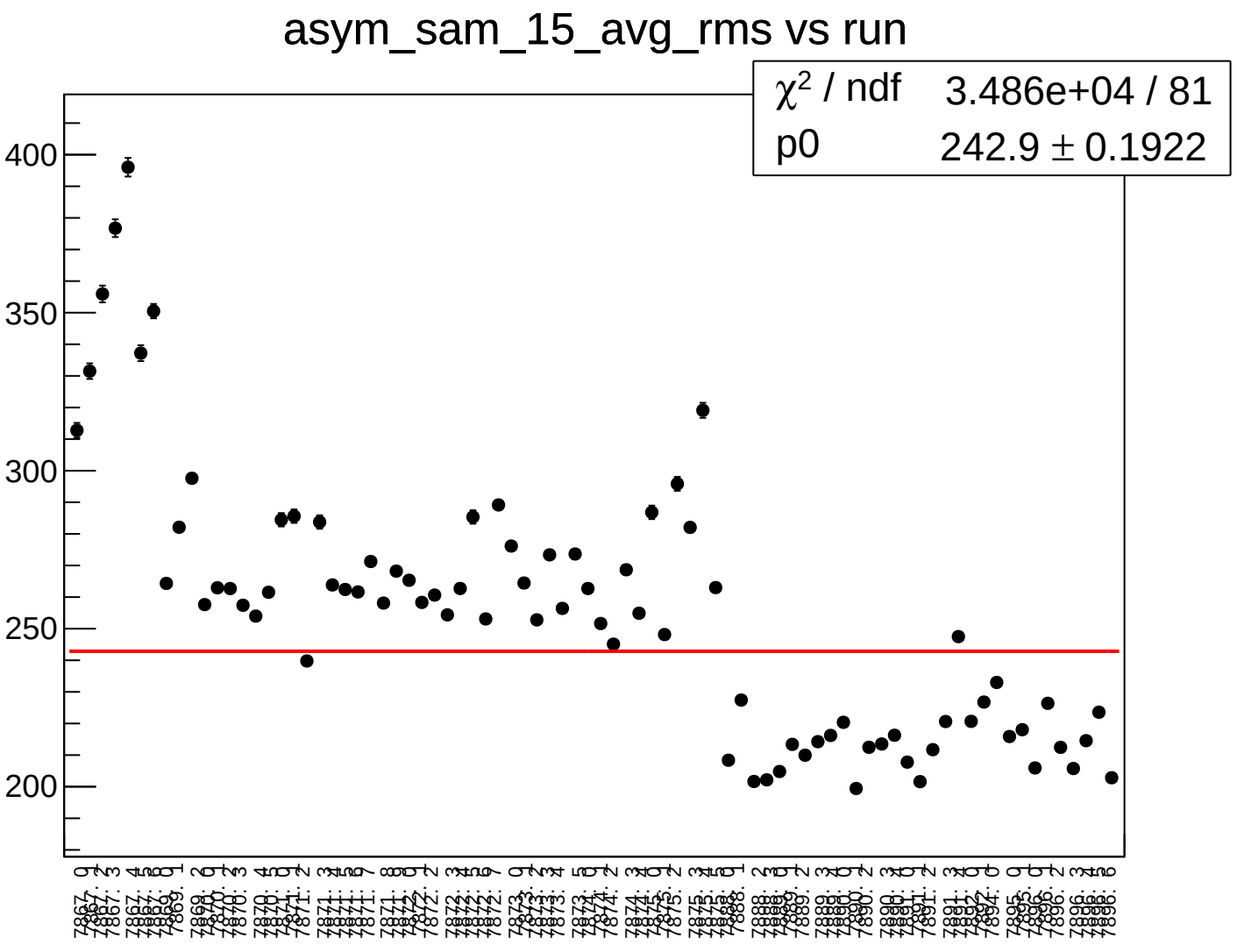

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.37 / 81
p0 59.86 ± 262.4
pull
Entries 82
Mean 23.96
Std Dev 52.81

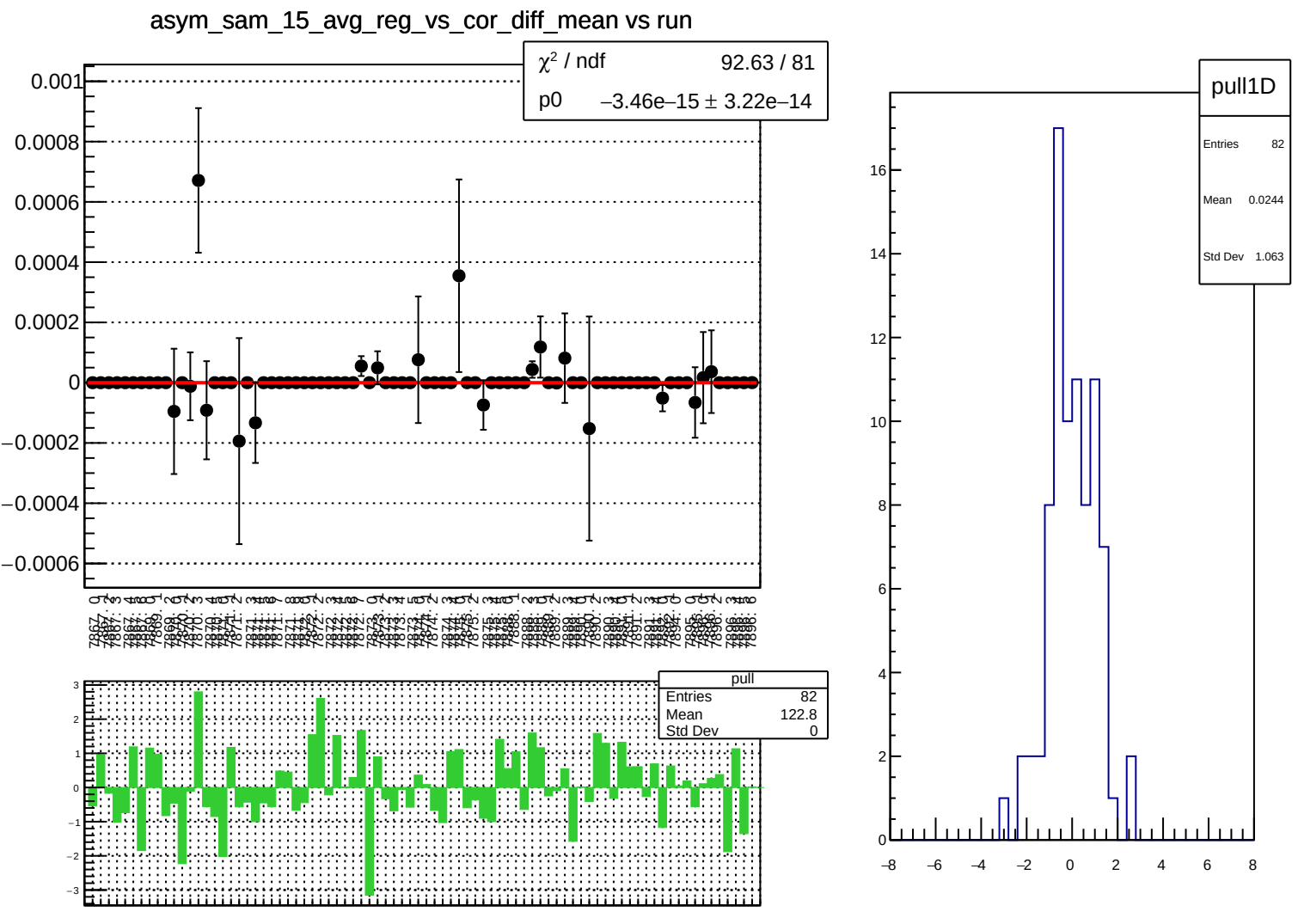

pull1D
Entries 82
Mean −0.01882
Std Dev 0.9262

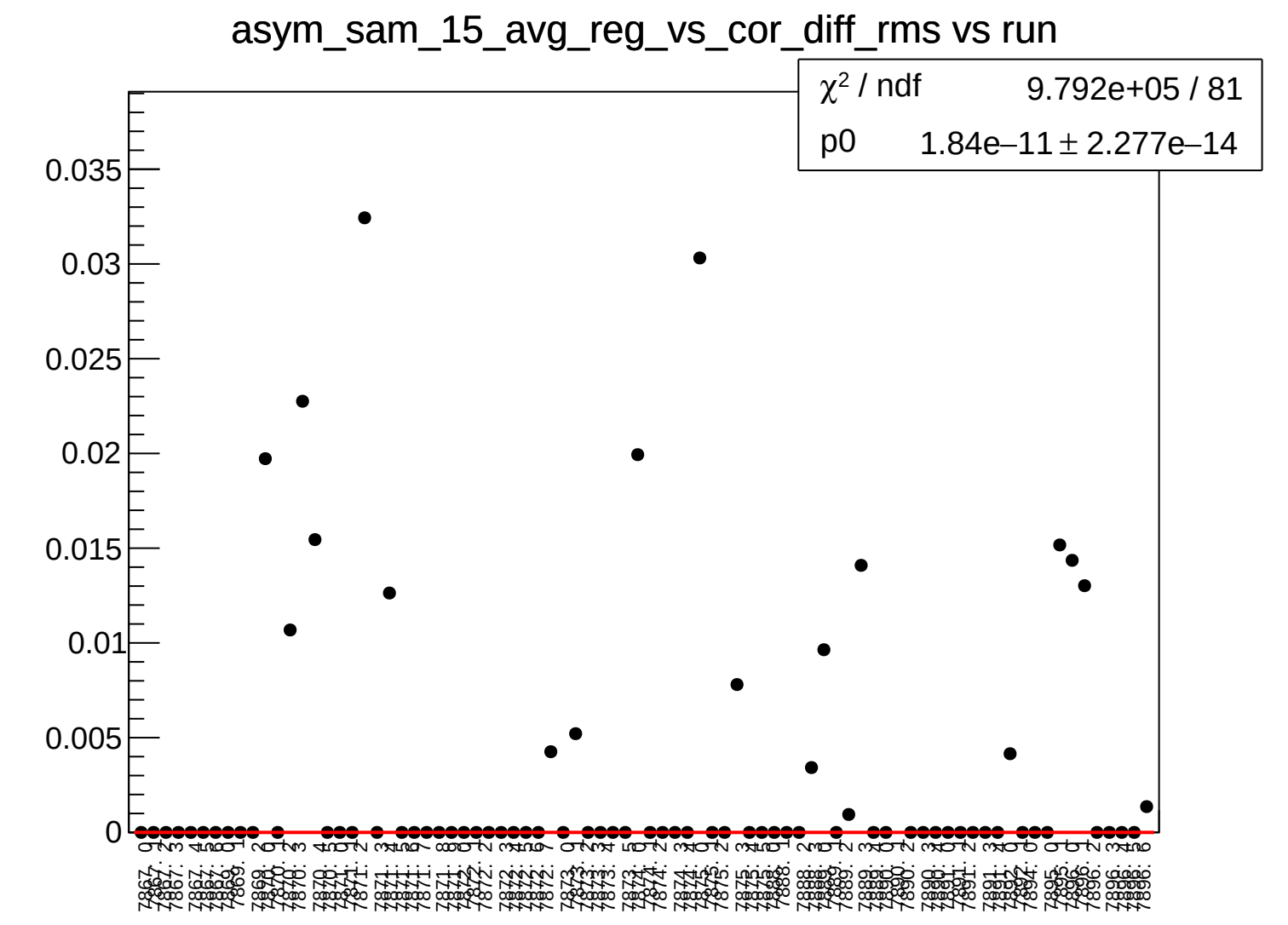

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.579e+04 / 81
p0 234.4 ± 0.1855
400
350
300
250
200

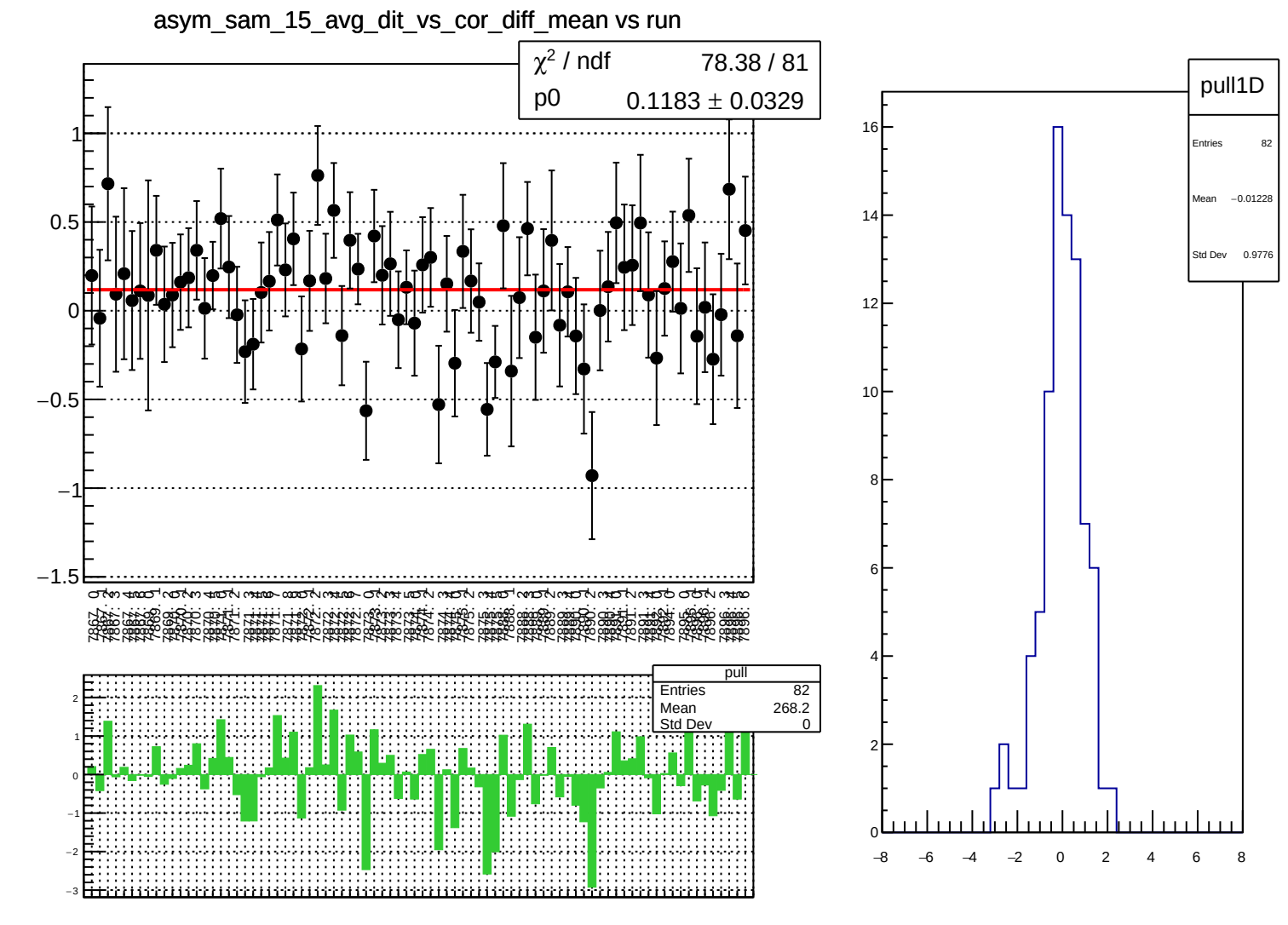

asym_sam_15_avg_mean vs run
χ² / ndf 73.46 / 81
p0 107.1 ± 271.8
pull
Entries 82
Mean 28.67
Std Dev 62.73

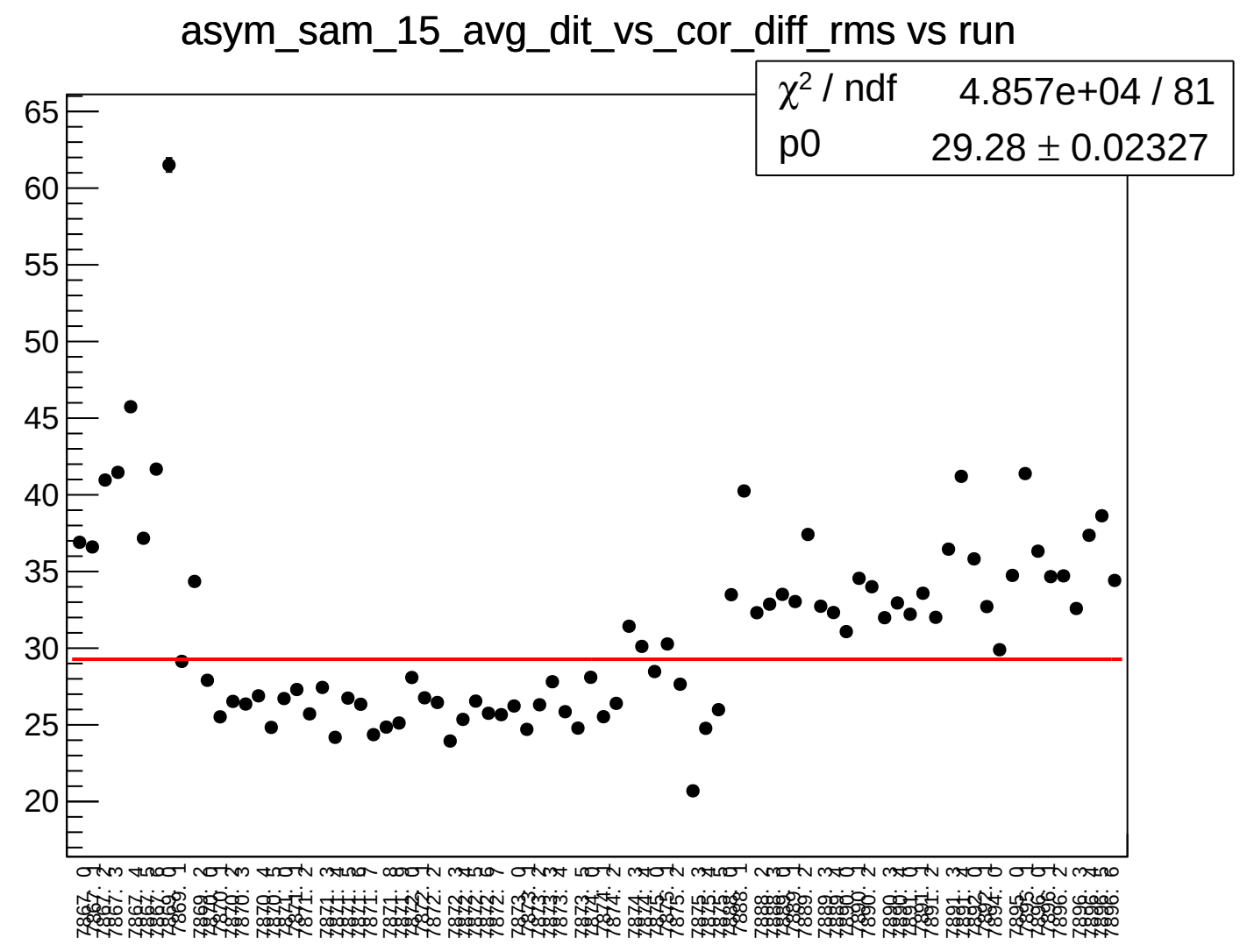

pull1D
Entries 82
Mean 0.02056
Std Dev 0.9463

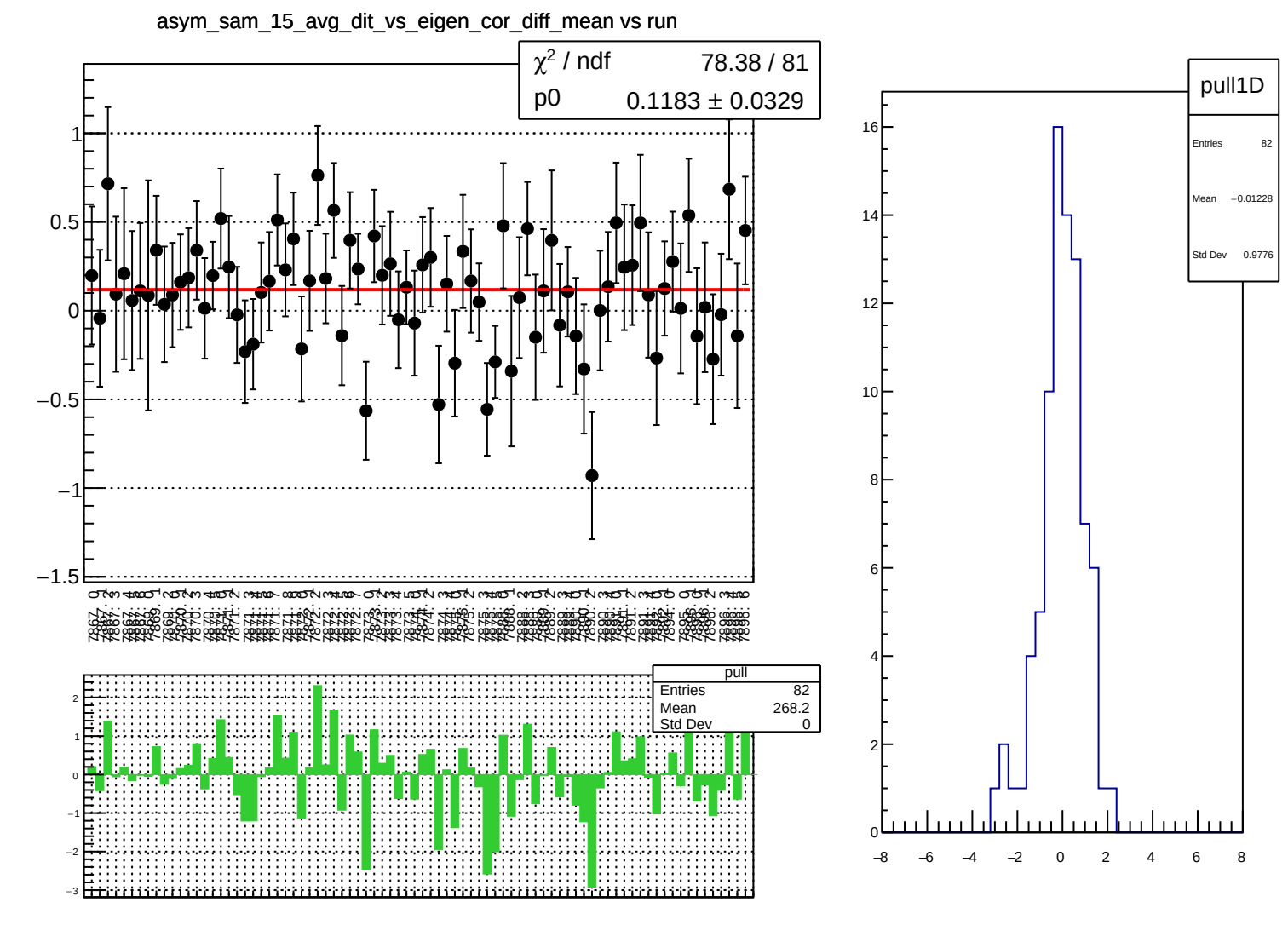

asym_sam_15_avg_rms vs run
χ² / ndf 3.486e+04 / 81
p0 242.9 ± 0.1922
400
350
300
250
200

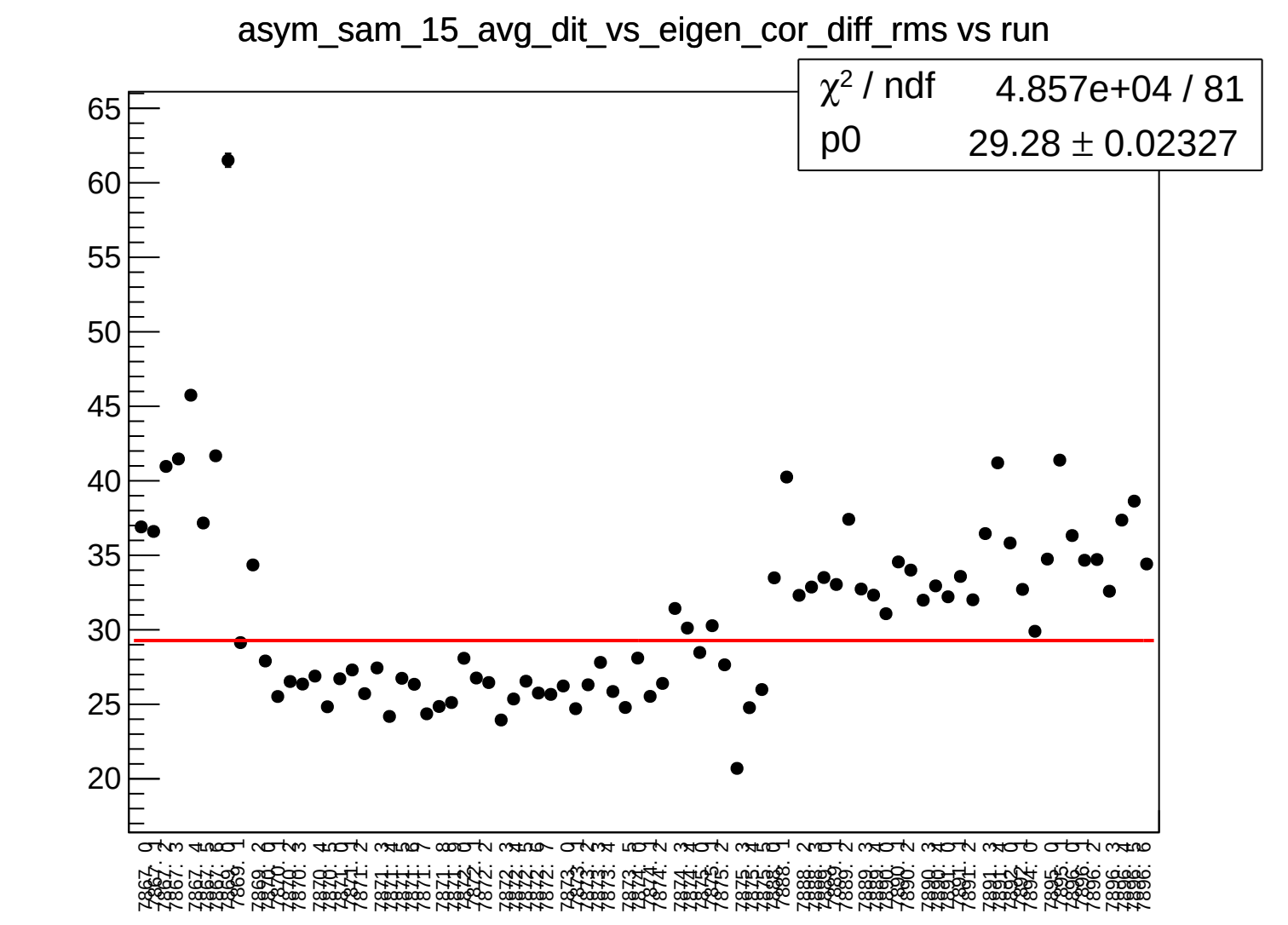

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.63 / 81
p0 −3.46e−15 ± 3.22e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 82
Mean 122.8
Std Dev 0
pull1D
Entries 82
Mean 0.0244
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

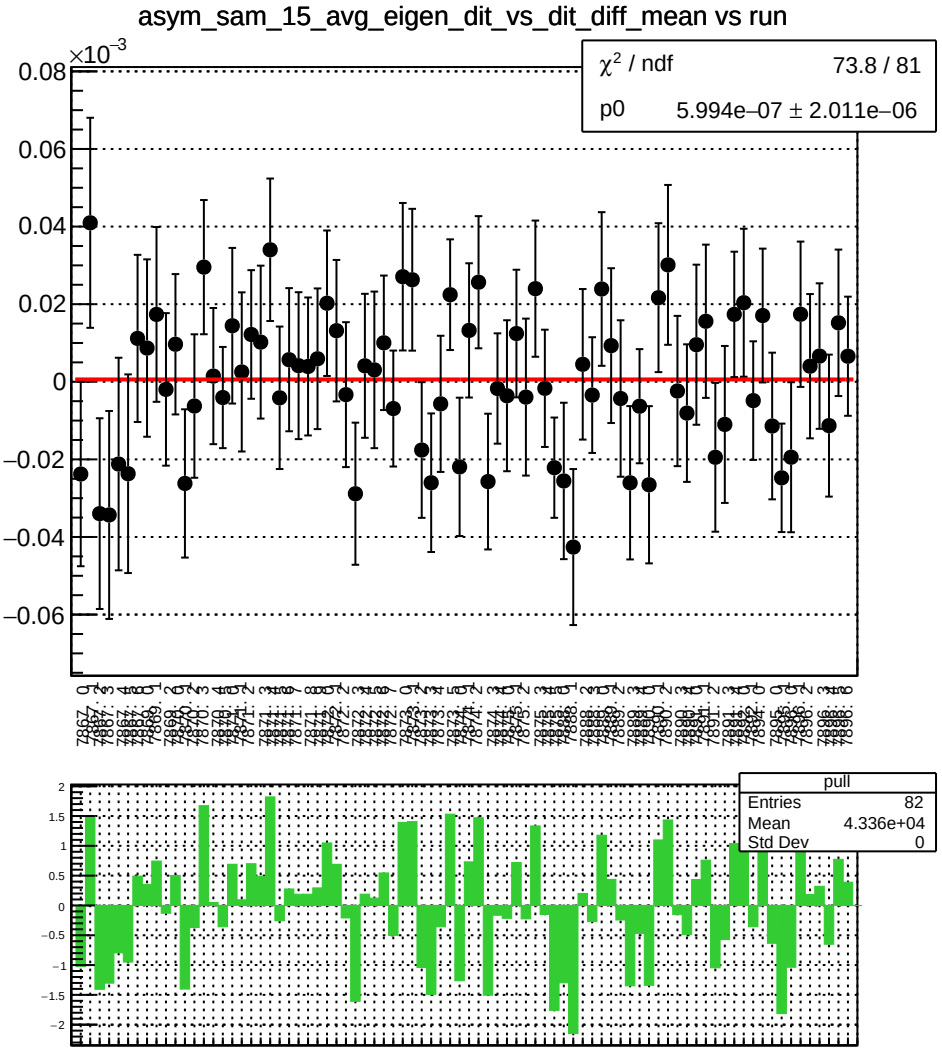

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.792e+05 / 81
p0 1.84e−11 ± 2.277e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

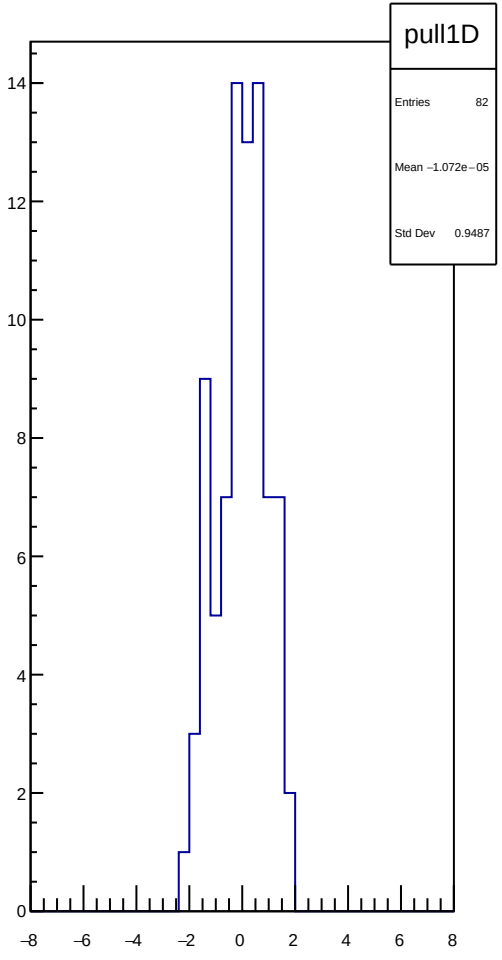

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.38 / 81
p0 0.1183 ± 0.0329
pull
Entries 82
Mean 268.2
Std Dev 0
pull1D
Entries 82
Mean −0.01228
Std Dev 0.9776

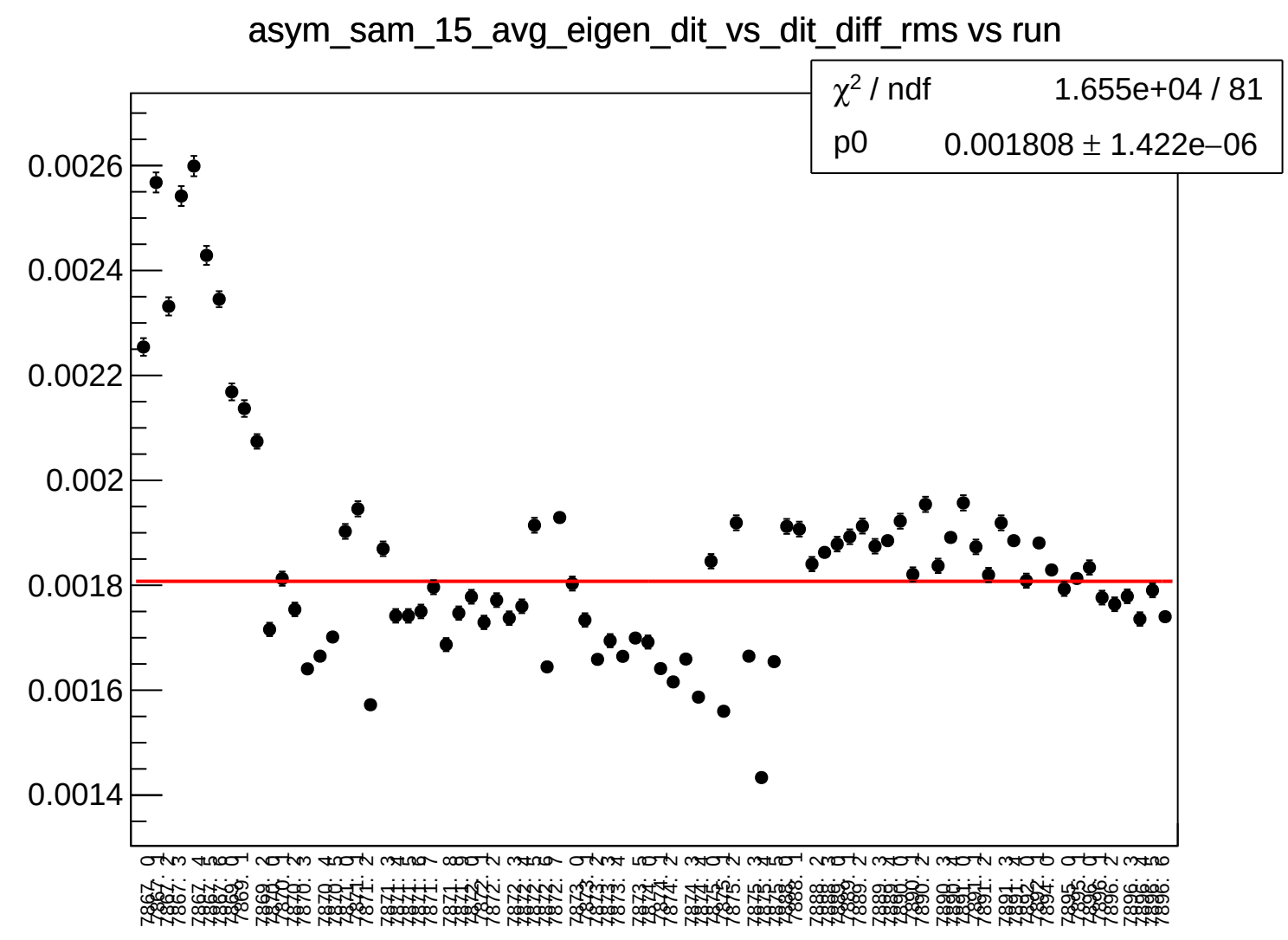

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.857e+04 / 81
p0 29.28 ± 0.02327
65
60
55
50
45
40
35
30
25
20

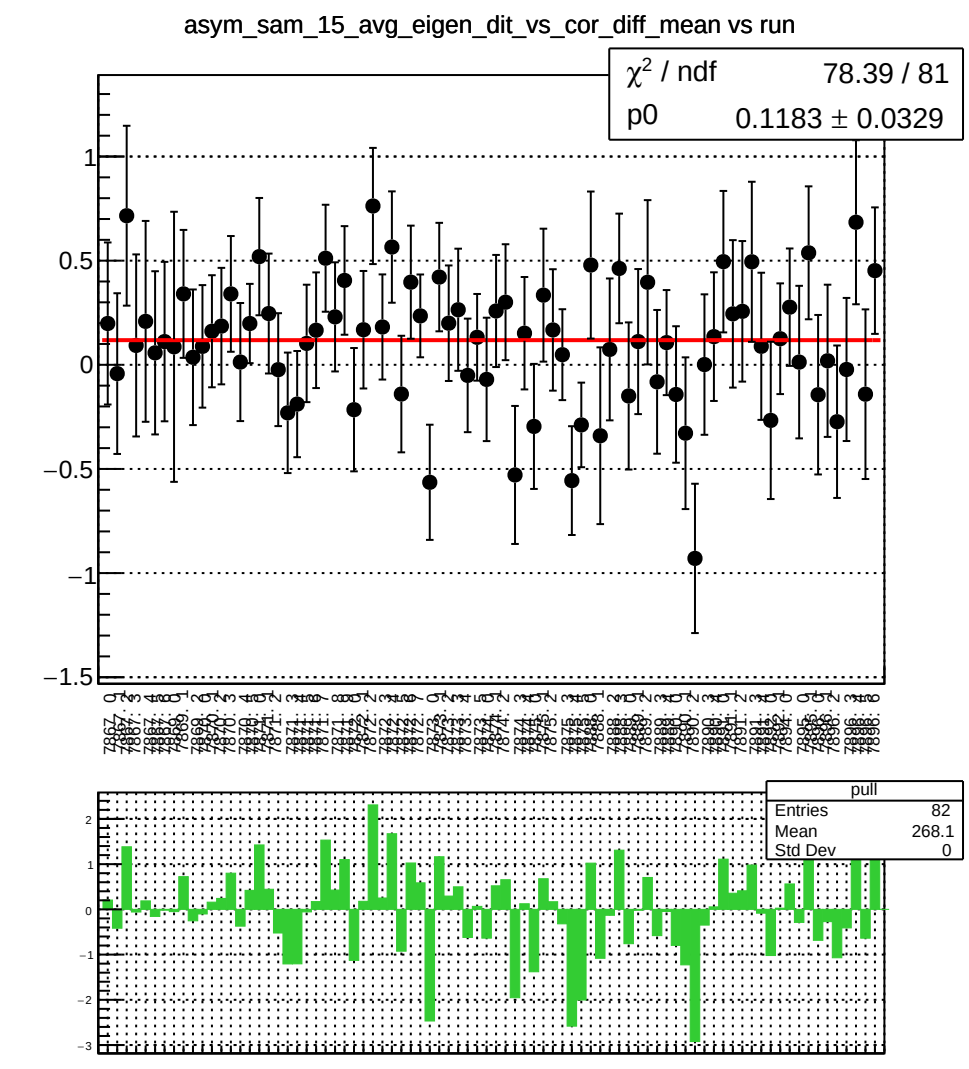

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.38 / 81
p0 0.1183 ± 0.0329
pull
Entries 82
Mean 268.2
Std Dev 0
pull1D
Entries 82
Mean −0.01228
Std Dev 0.9776

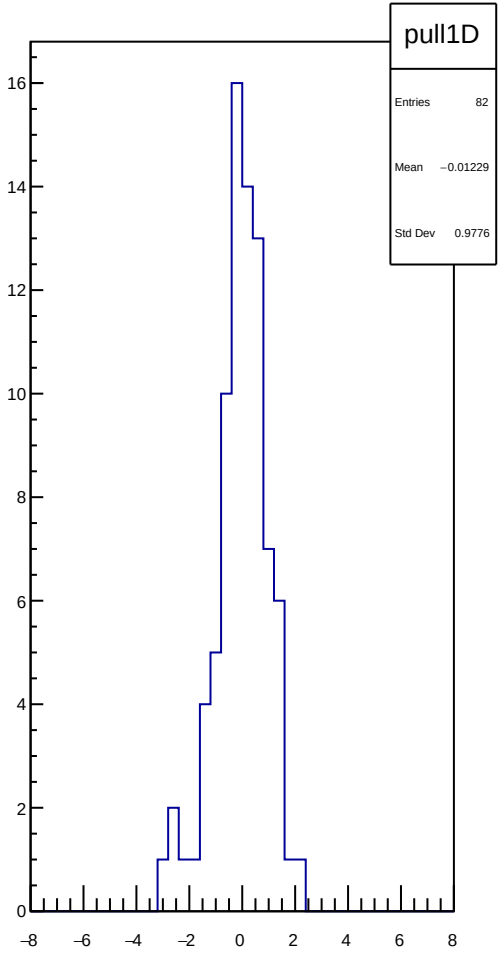

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.857e+04 / 81
p0 29.28 ± 0.02327
65
60
55
50
45
40
35
30
25
20

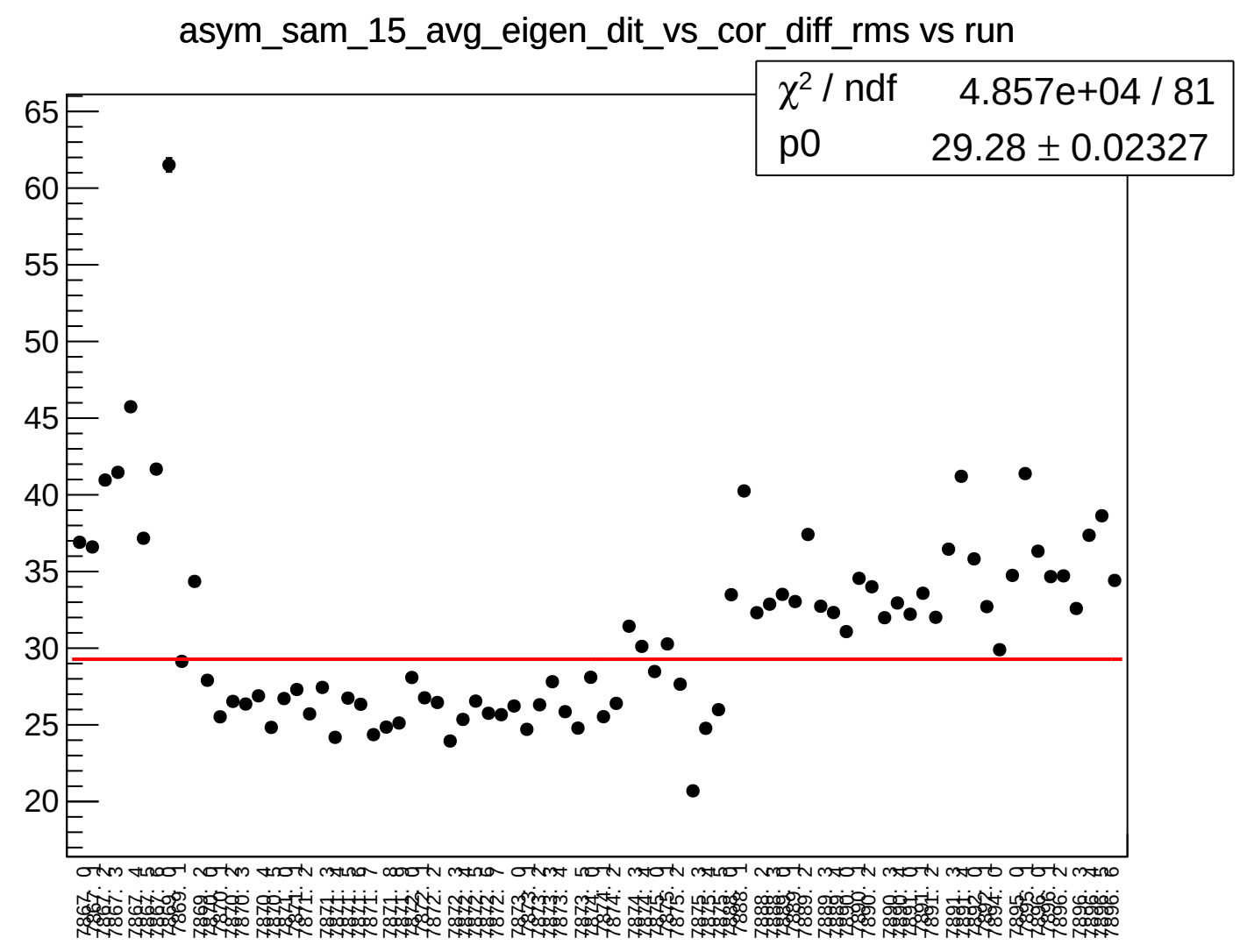

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.8 / 81
p0 5.994e−07 ± 2.011e−06
pull
Entries 82
Mean 4.336e+04
Std Dev 0

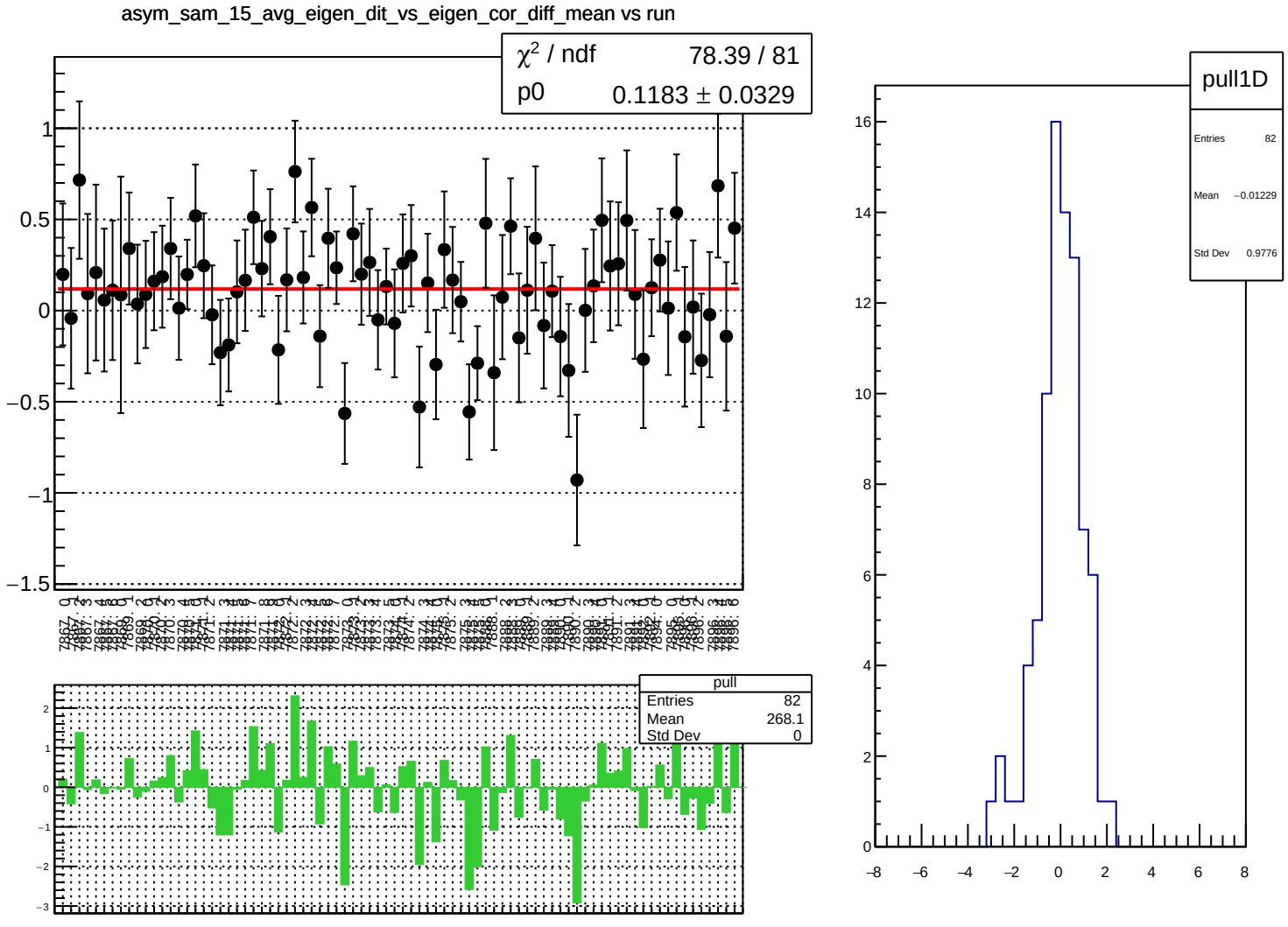

pull1D
Entries 82
Mean −1.072e−05
Std Dev 0.9487

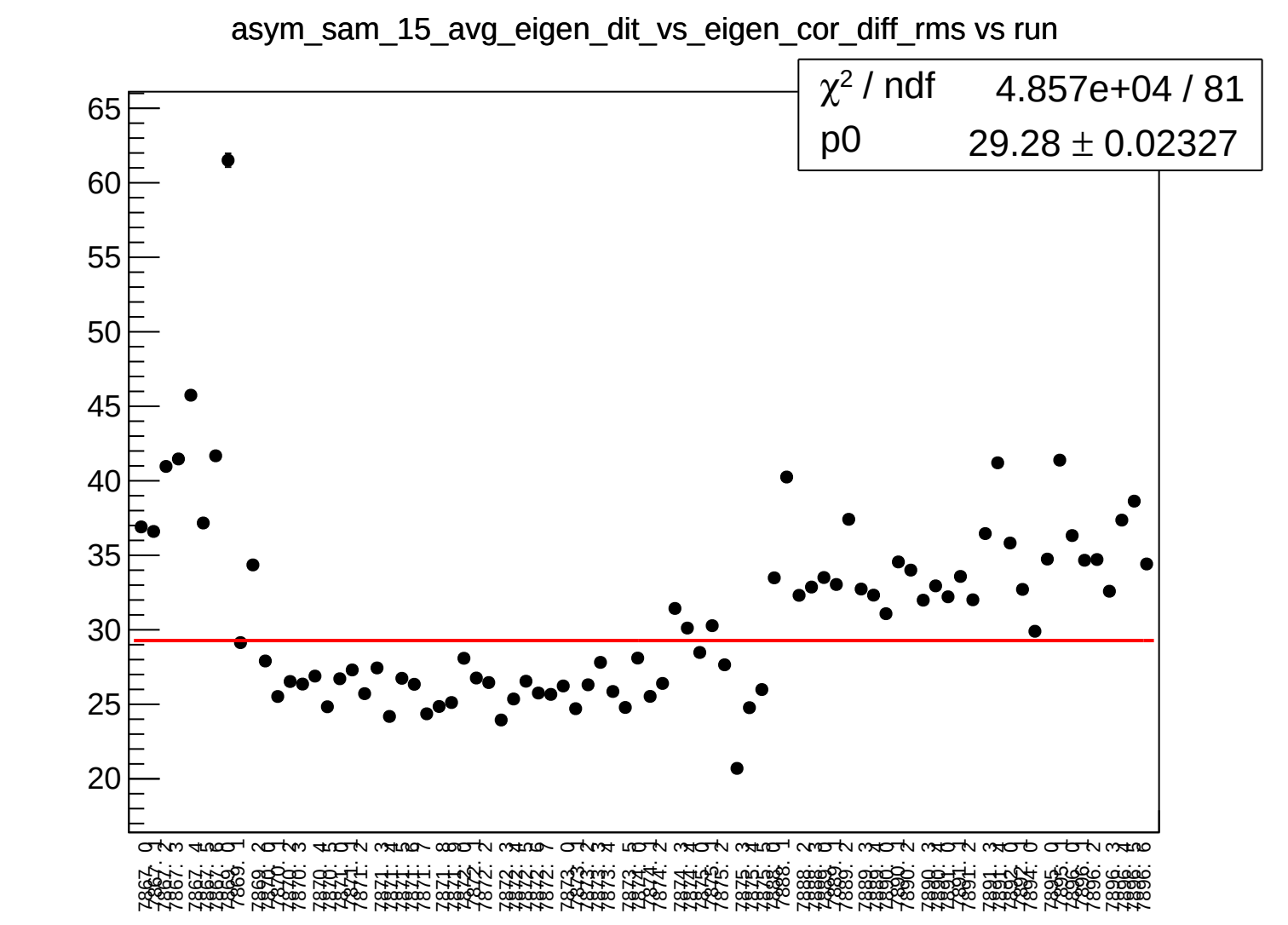

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.655e+04 / 81
p0 0.001808 ± 1.422e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

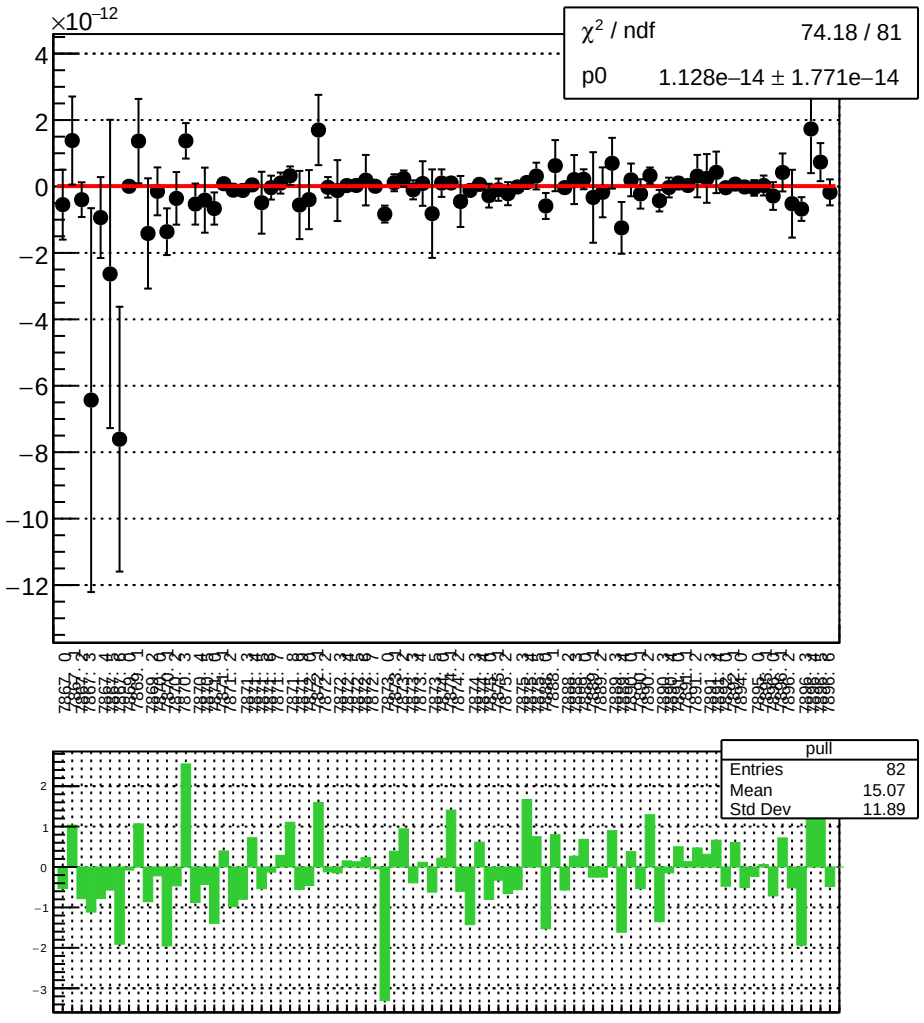

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.39 / 81
p0 0.1183 ± 0.0329
pull
Entries 82
Mean 268.1
Std Dev 0

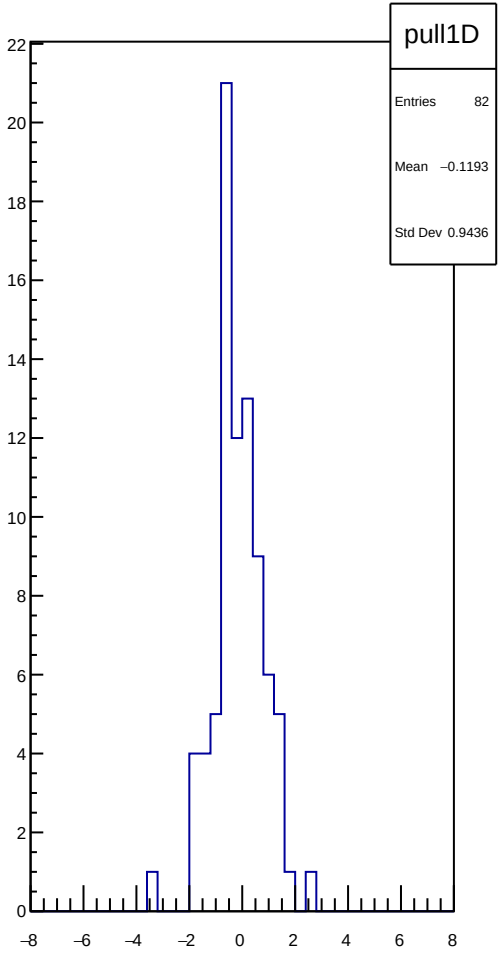

pull1D
Entries 82
Mean −0.01229
Std Dev 0.9776

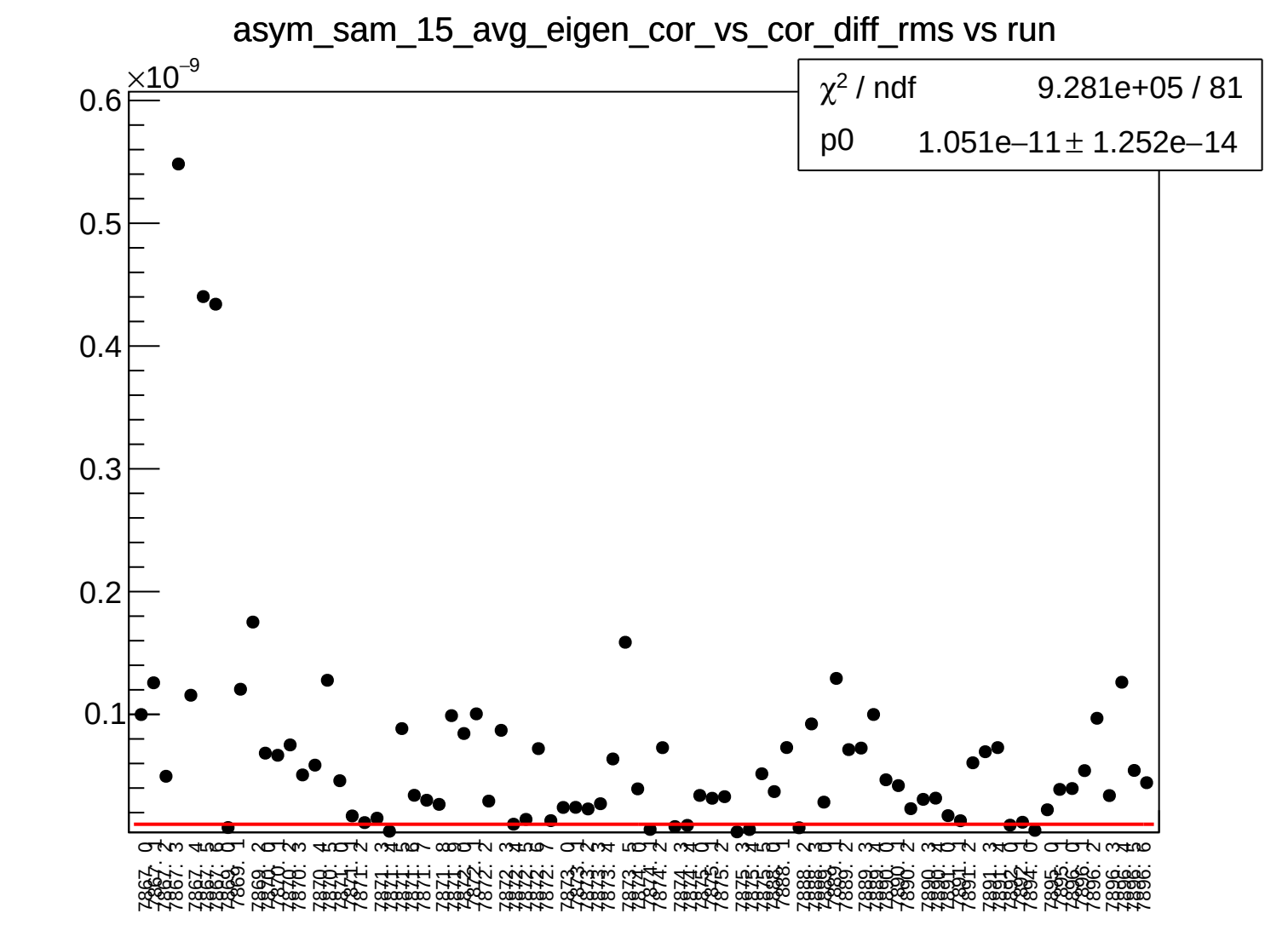

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.857e+04 / 81
p0 29.28 ± 0.02327
65
60
55
50
45
40
35
30
25
20

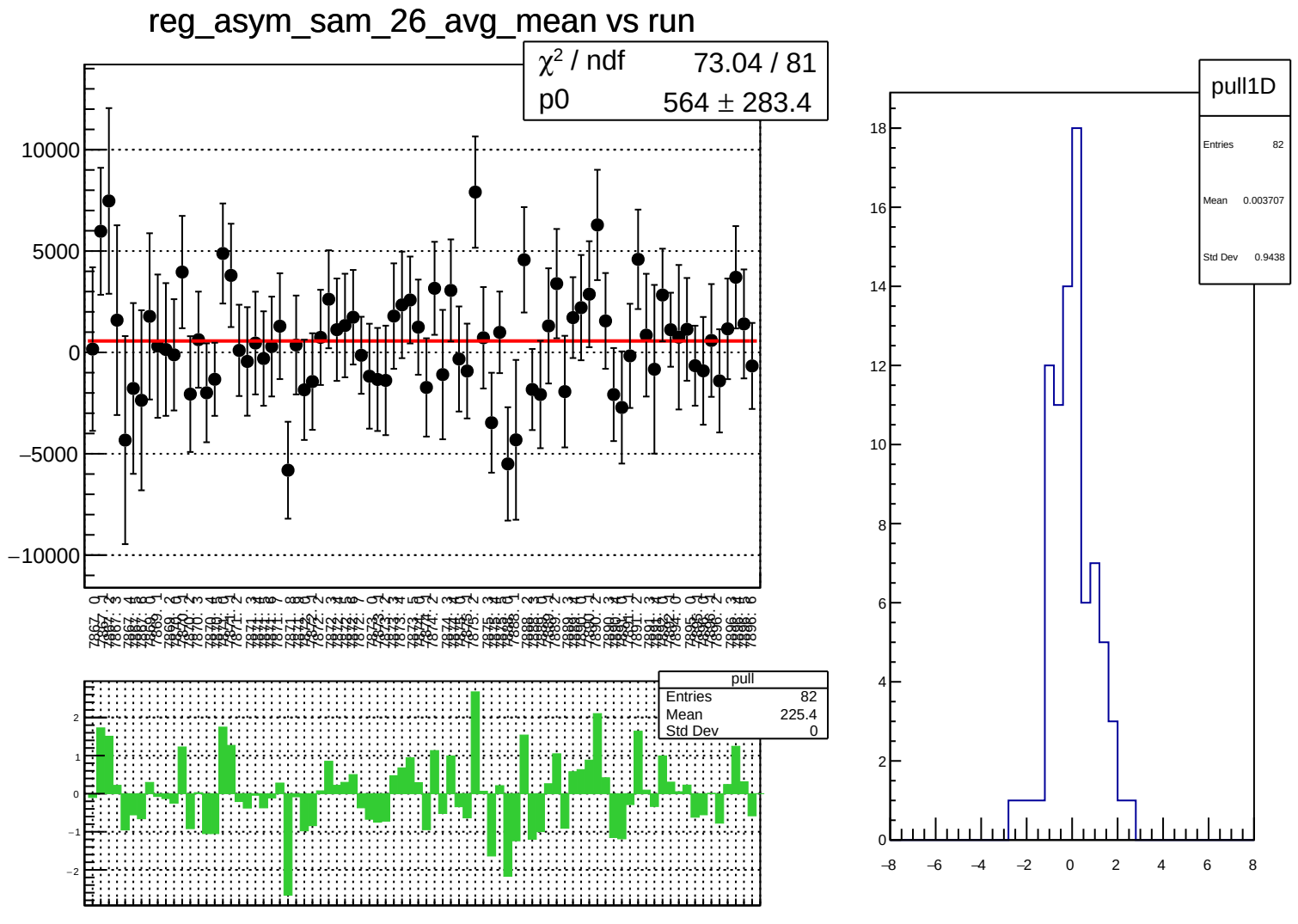

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.39 / 81
p0 0.1183 ± 0.0329
pull
Entries 82
Mean 268.1
Std Dev 0
pull1D
Entries 82
Mean −0.01229
Std Dev 0.9776

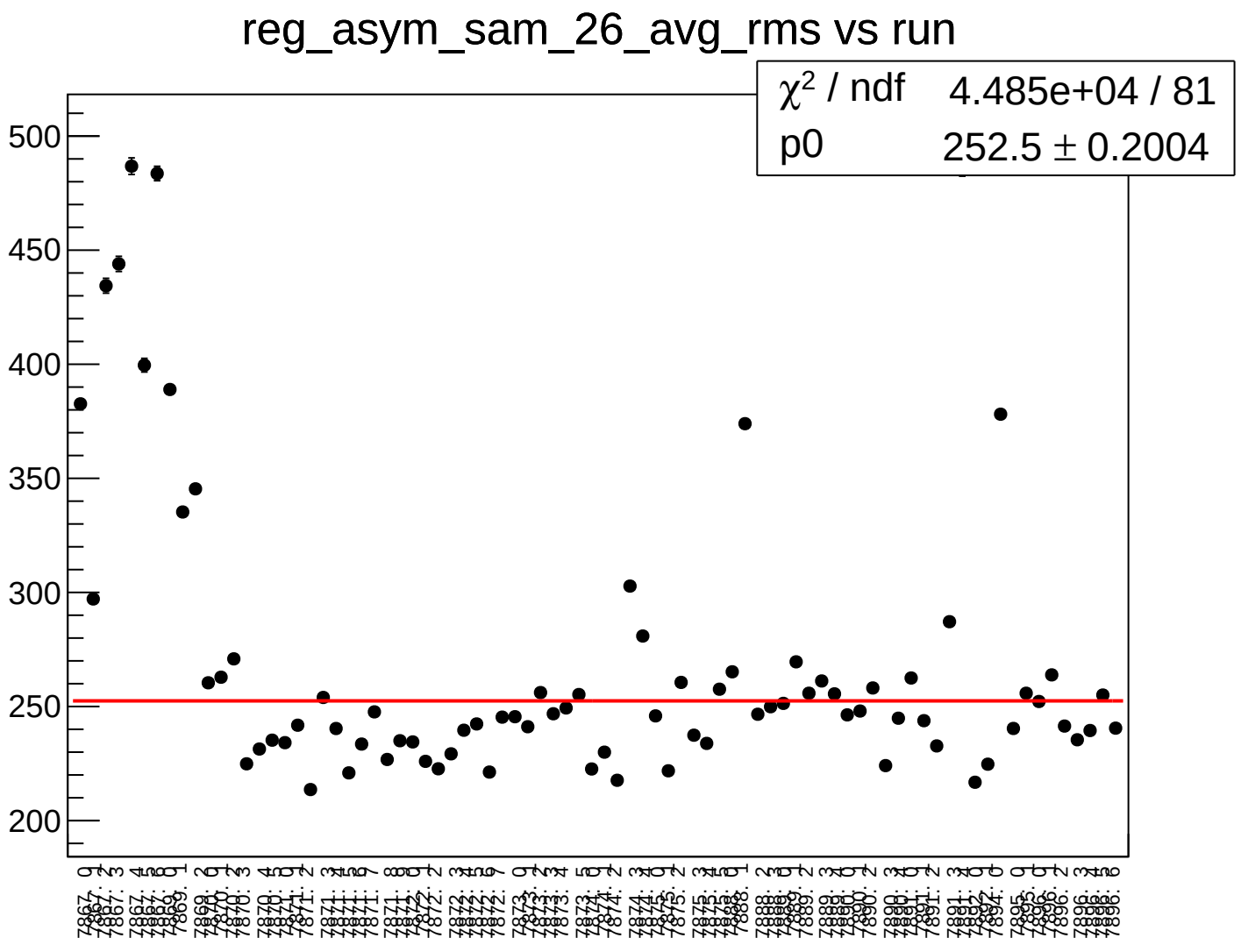

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.857e+04 / 81
p0 29.28 ± 0.02327
65
60
55
50
45
40
35
30
25
20

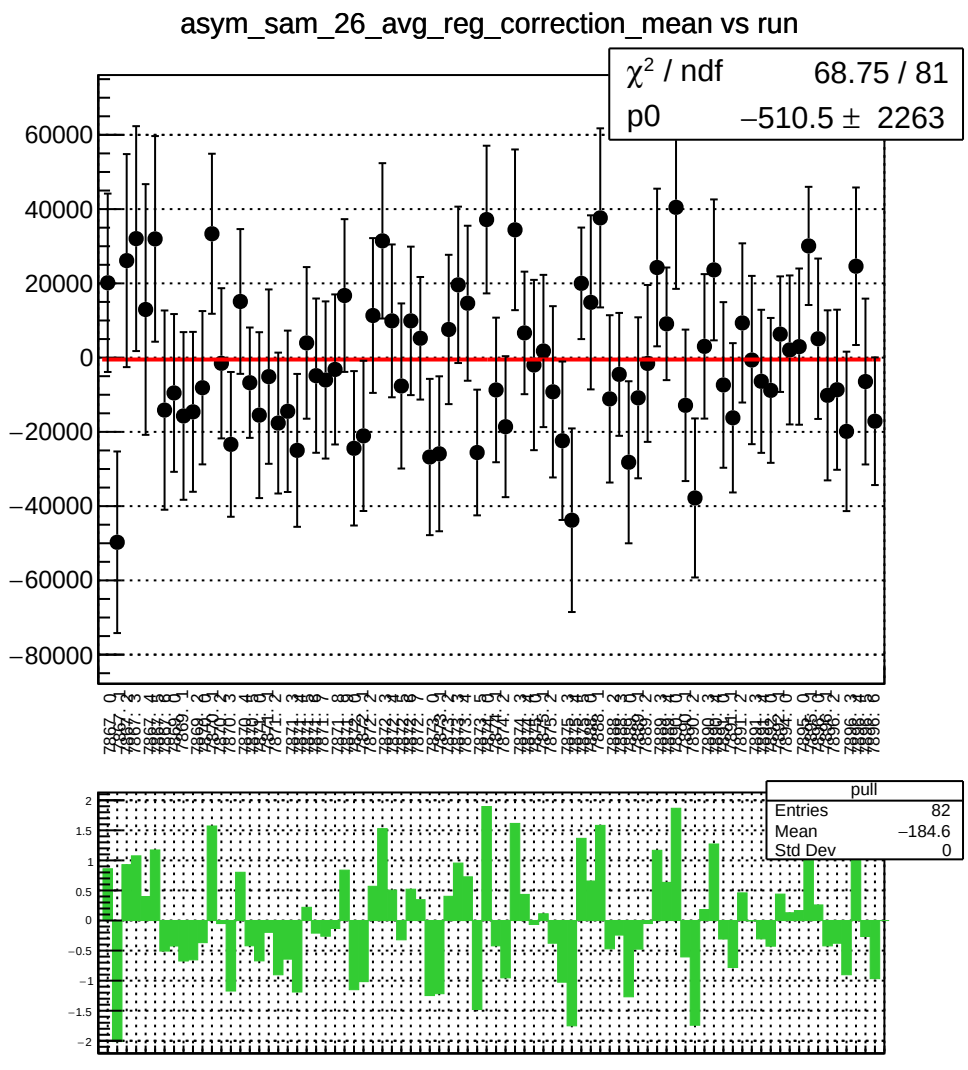

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.18 / 81
p0 1.128e−14 ± 1.771e−14
pull
Entries 82
Mean 15.07
Std Dev 11.89

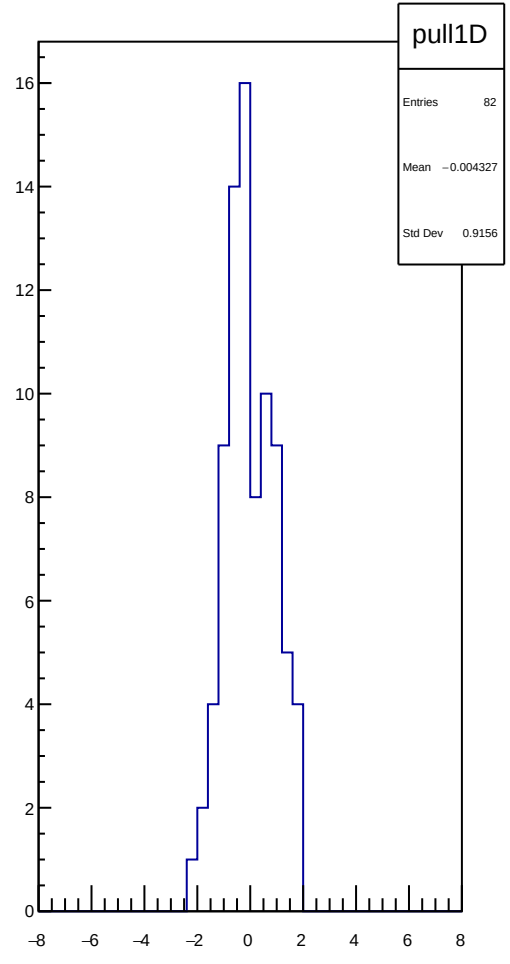

pull1D
Entries 82
Mean −0.1193
Std Dev 0.9436

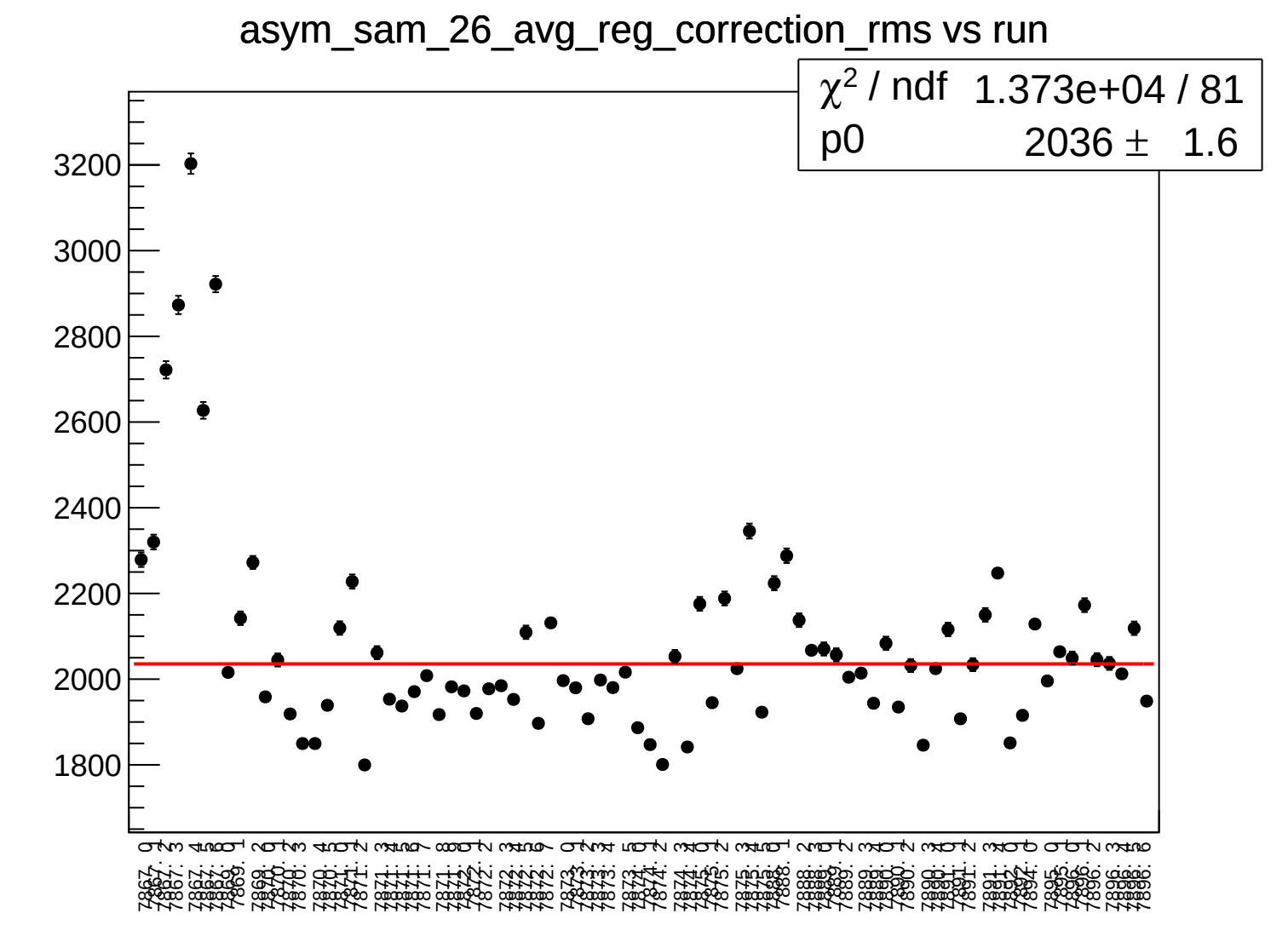

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.281e+05 / 81
p0 1.051e−11 ± 1.252e−14

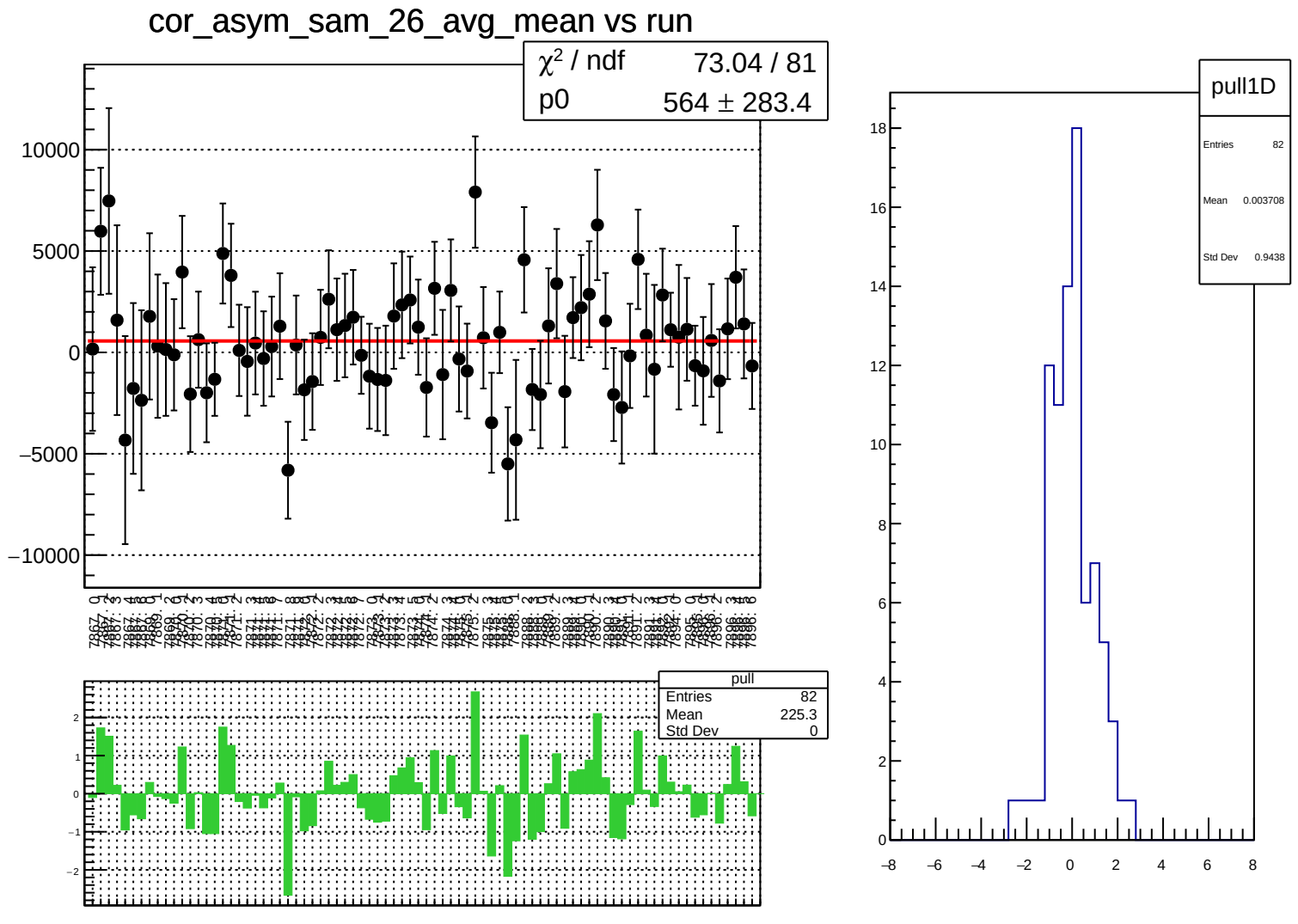

reg_asym_sam_26_avg_mean vs run
χ² / ndf 73.04 / 81
p0 564 ± 283.4
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 225.4
Std Dev 0
pull1D
Entries 82
Mean 0.003707
Std Dev 0.9438

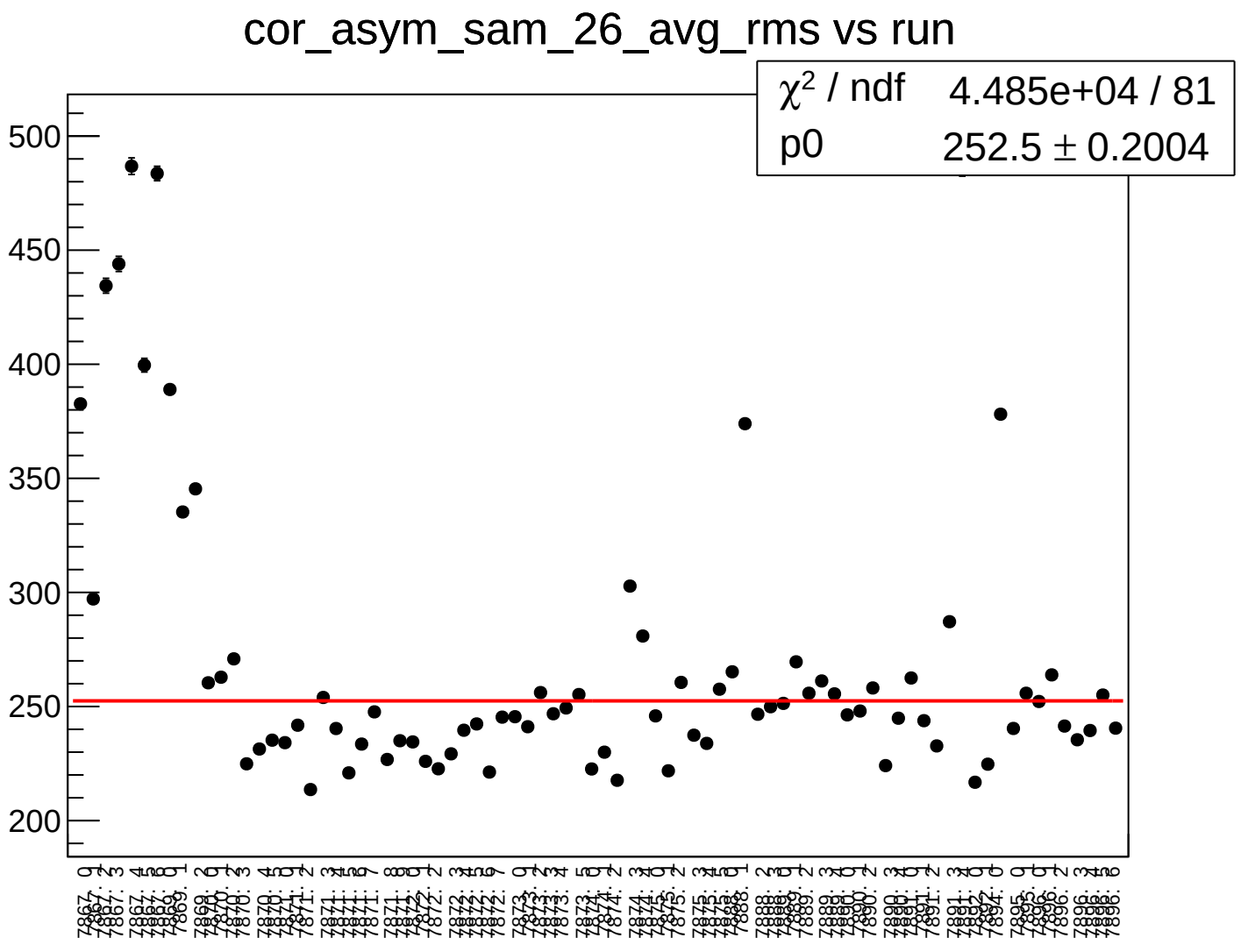

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4.485e+04 / 81
p0 252.5 ± 0.2004
500
450
400
350
300
250
200

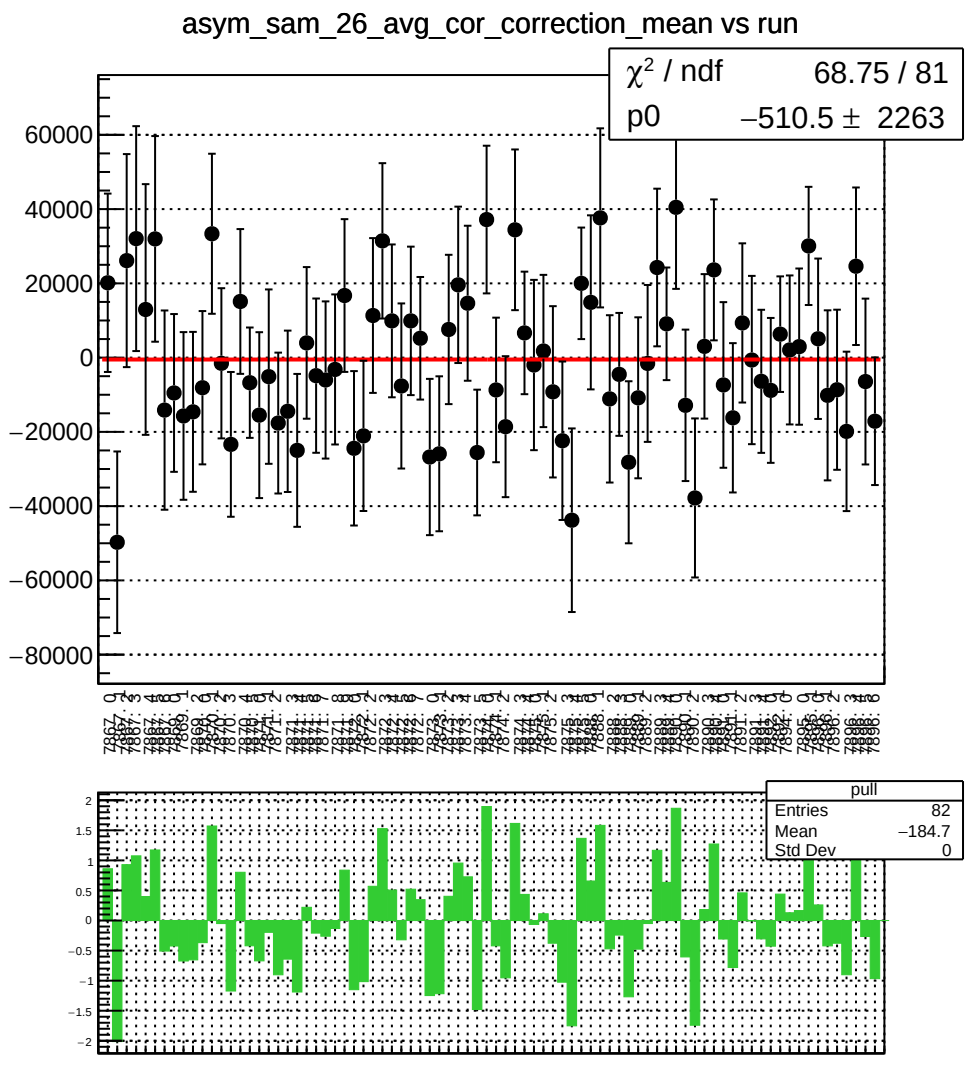

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 68.75 / 81
p0 −510.5 ± 2263
pull
Entries 82
Mean −184.6
Std Dev 0

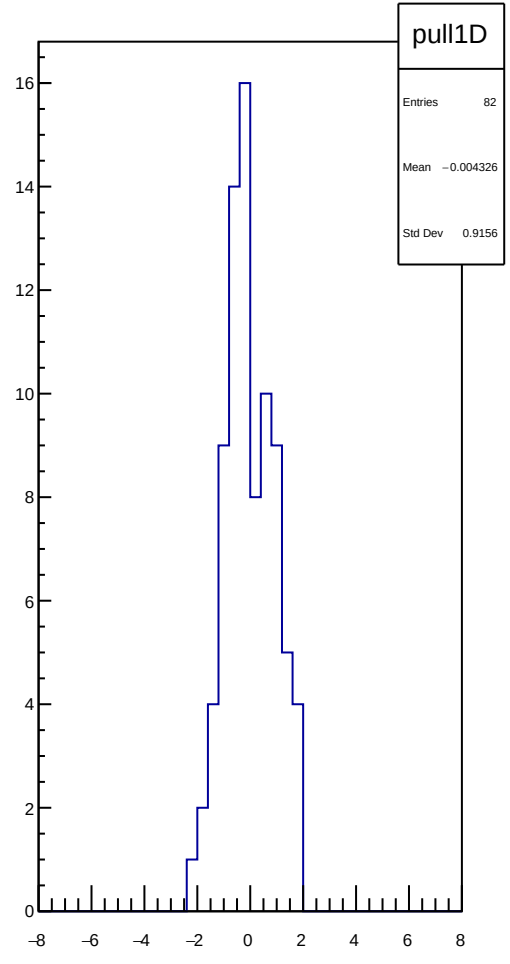

pull1D
Entries 82
Mean −0.004327
Std Dev 0.9156

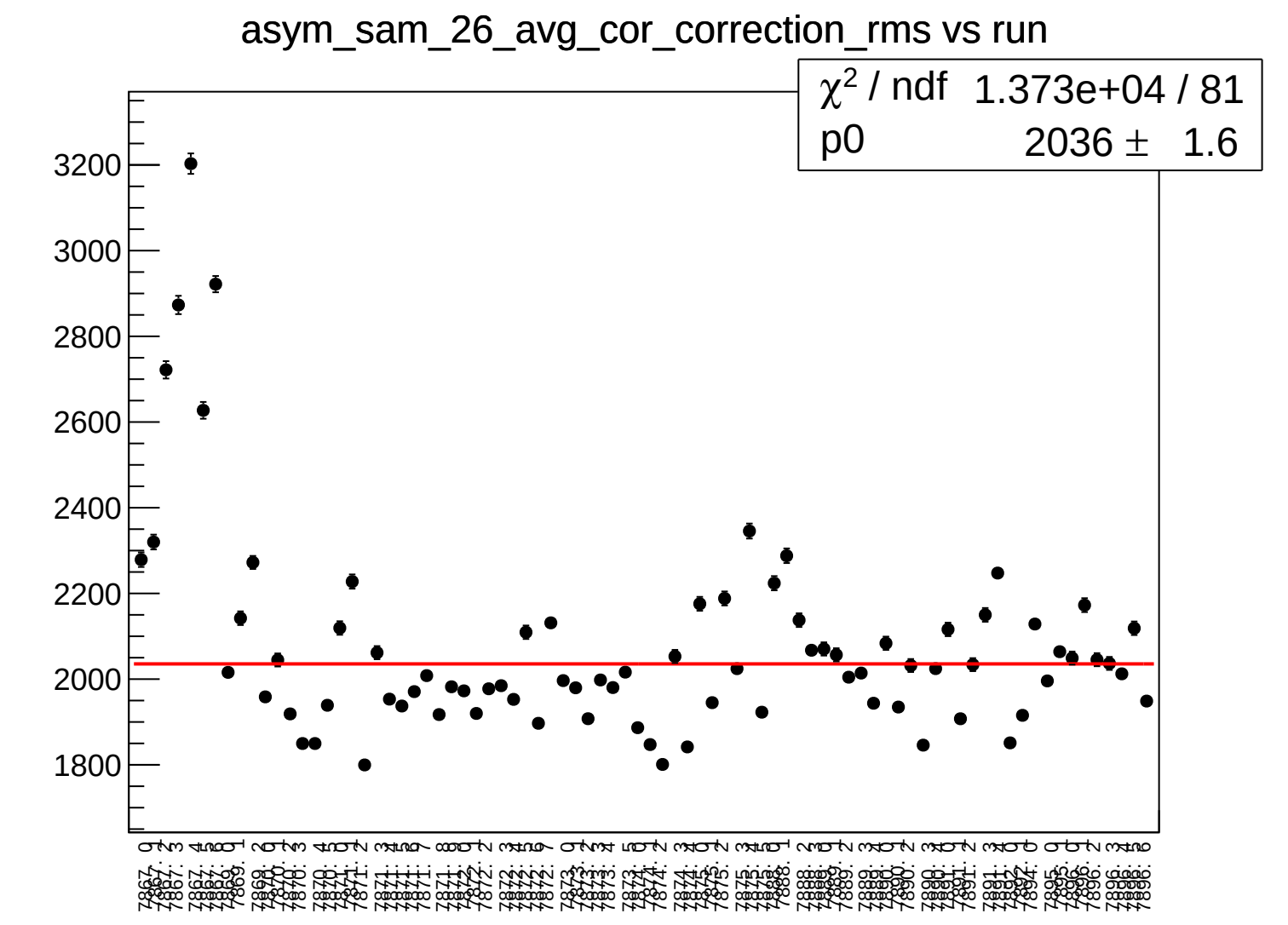

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.373e+04 / 81
p0 2036 ± 1.6
3200
3000
2800
2600
2400
2200
2000
1800

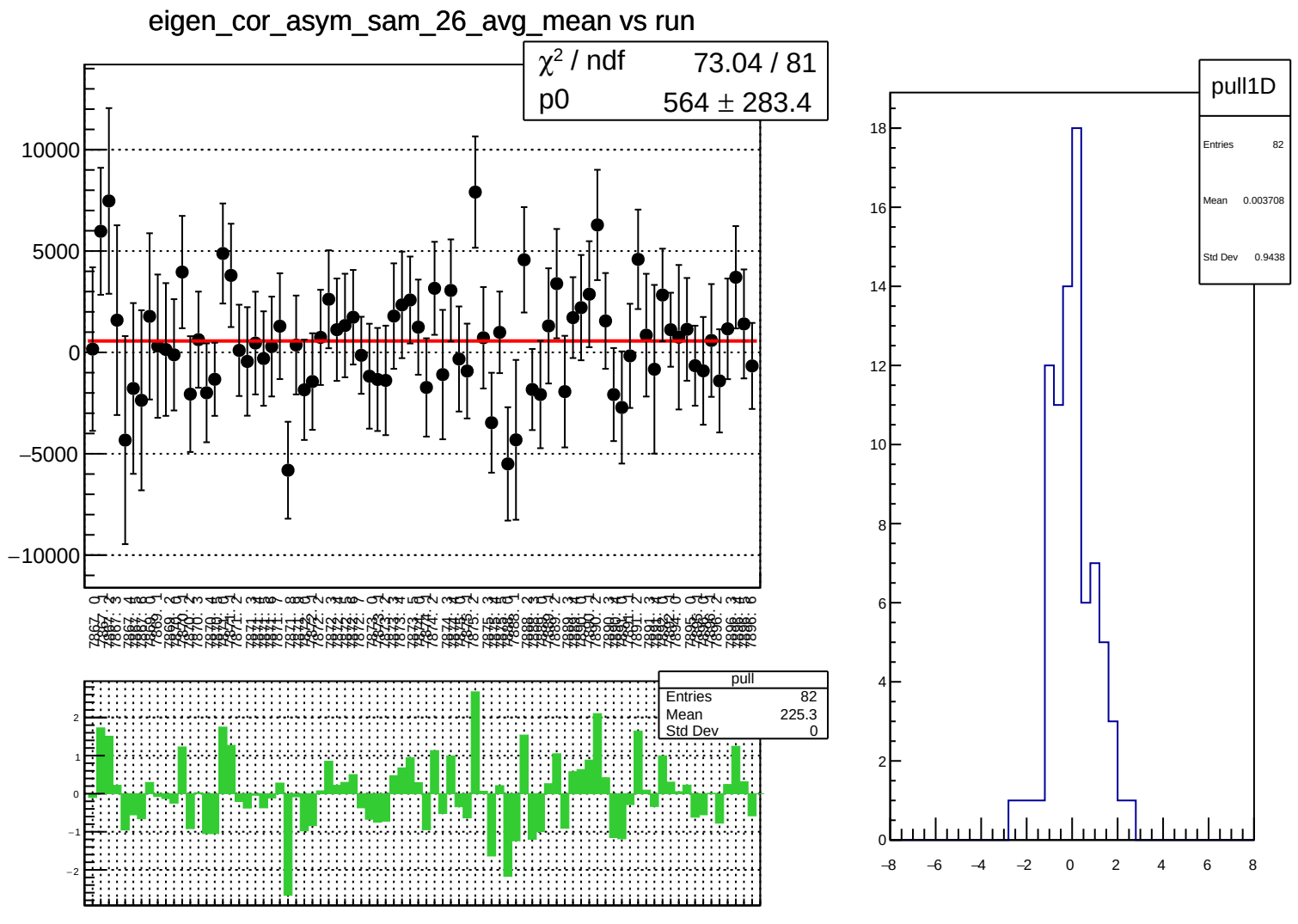

cor_asym_sam_26_avg_mean vs run
χ² / ndf 73.04 / 81
p0 564 ± 283.4
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 225.3
Std Dev 0
pull1D
Entries 82
Mean 0.003708
Std Dev 0.9438

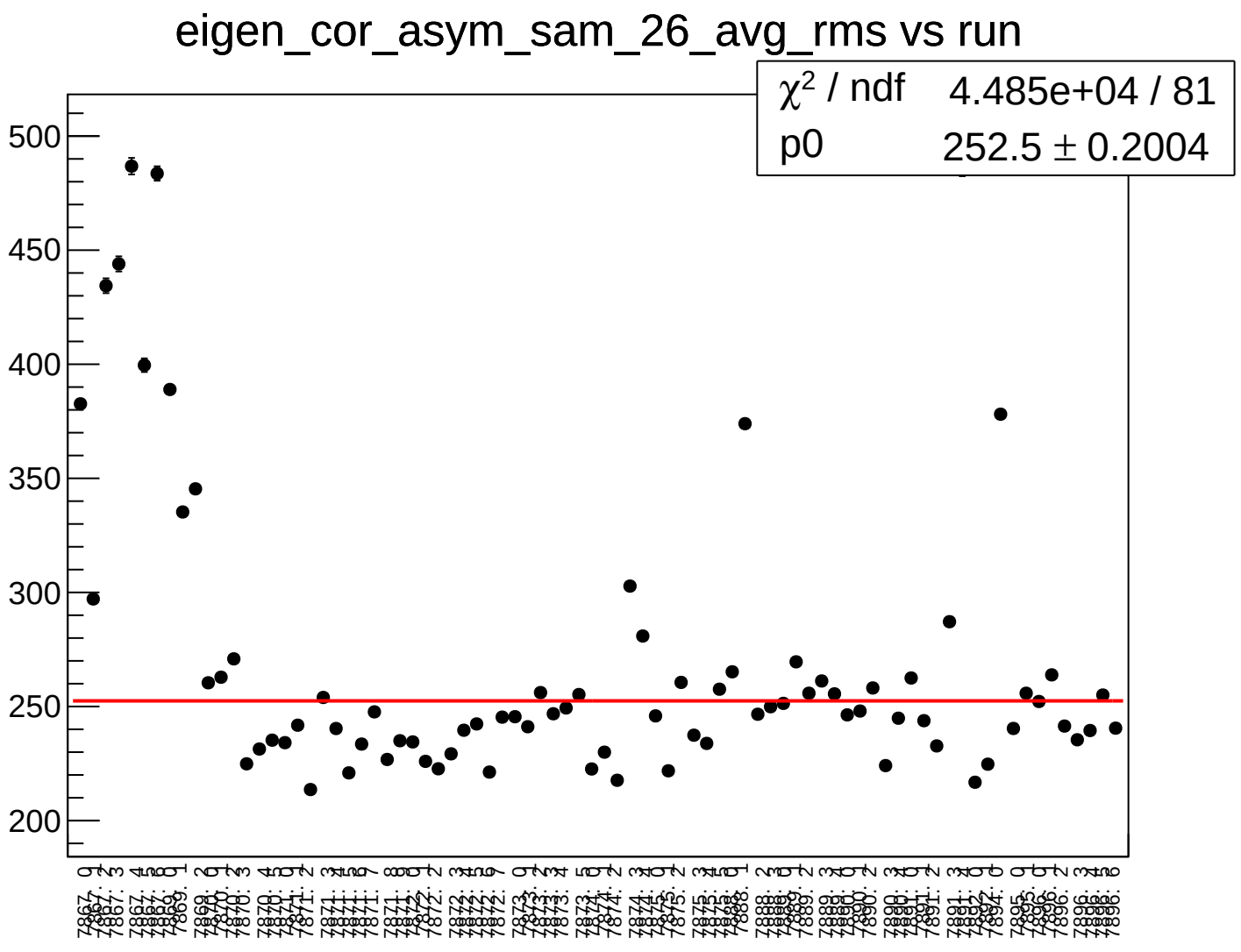

cor_asym_sam_26_avg_rms vs run
χ² / ndf 4.485e+04 / 81
p0 252.5 ± 0.2004
500
450
400
350
300
250
200

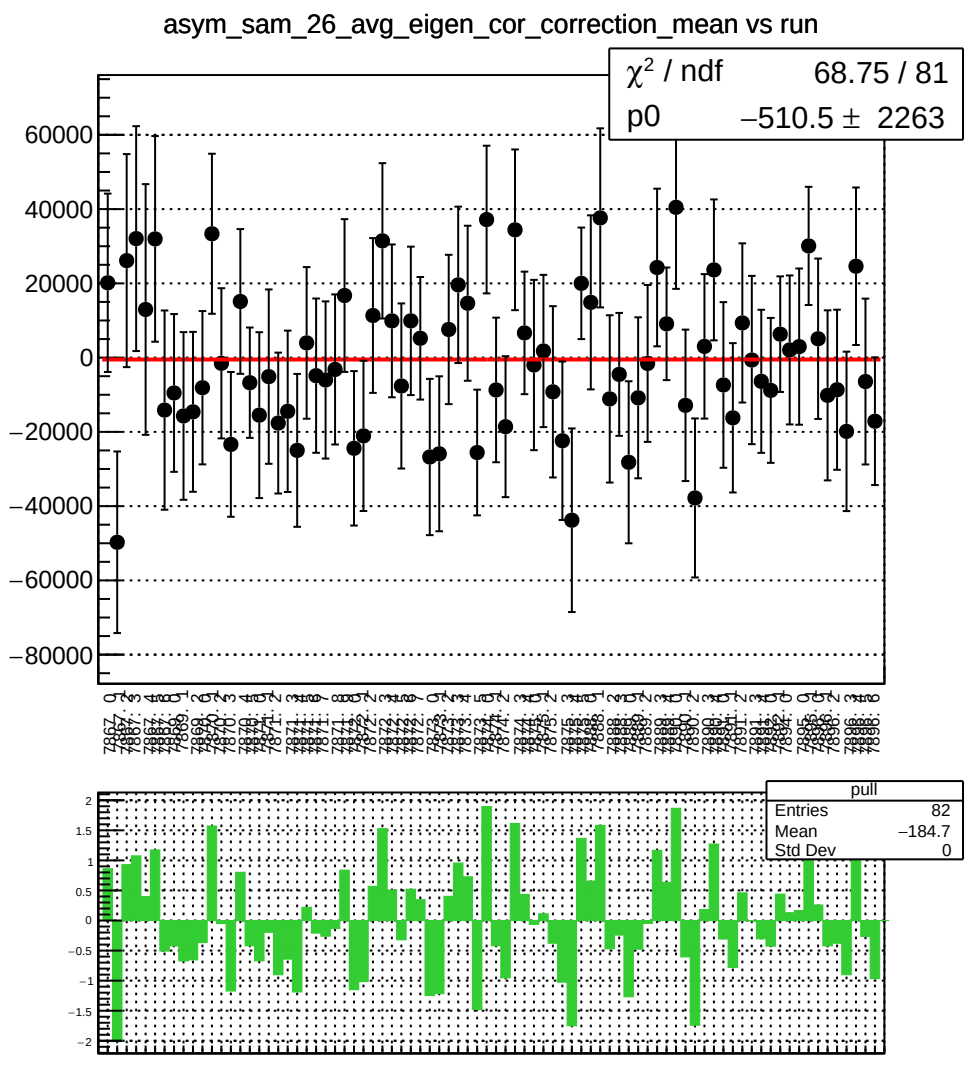

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 68.75 / 81
p0 −510.5 ± 2263
pull
Entries 82
Mean −184.7
Std Dev 0

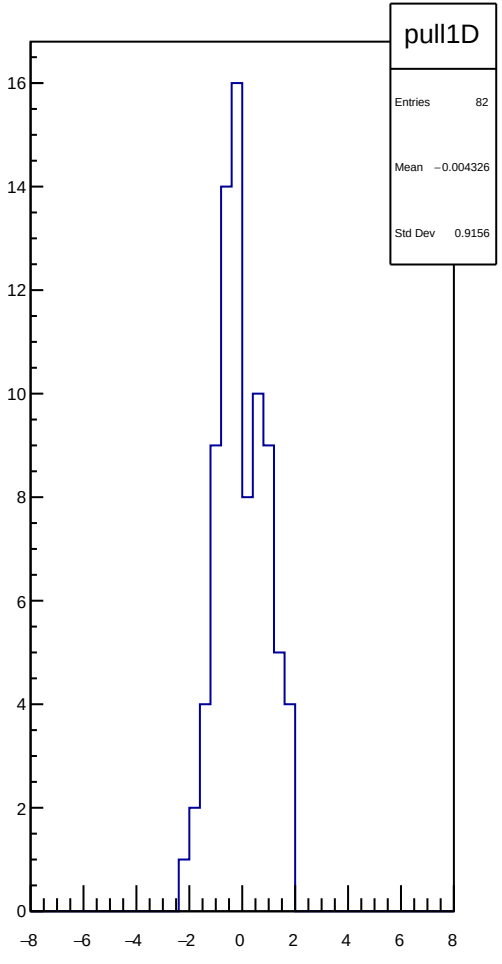

pull1D
Entries 82
Mean −0.004326
Std Dev 0.9156

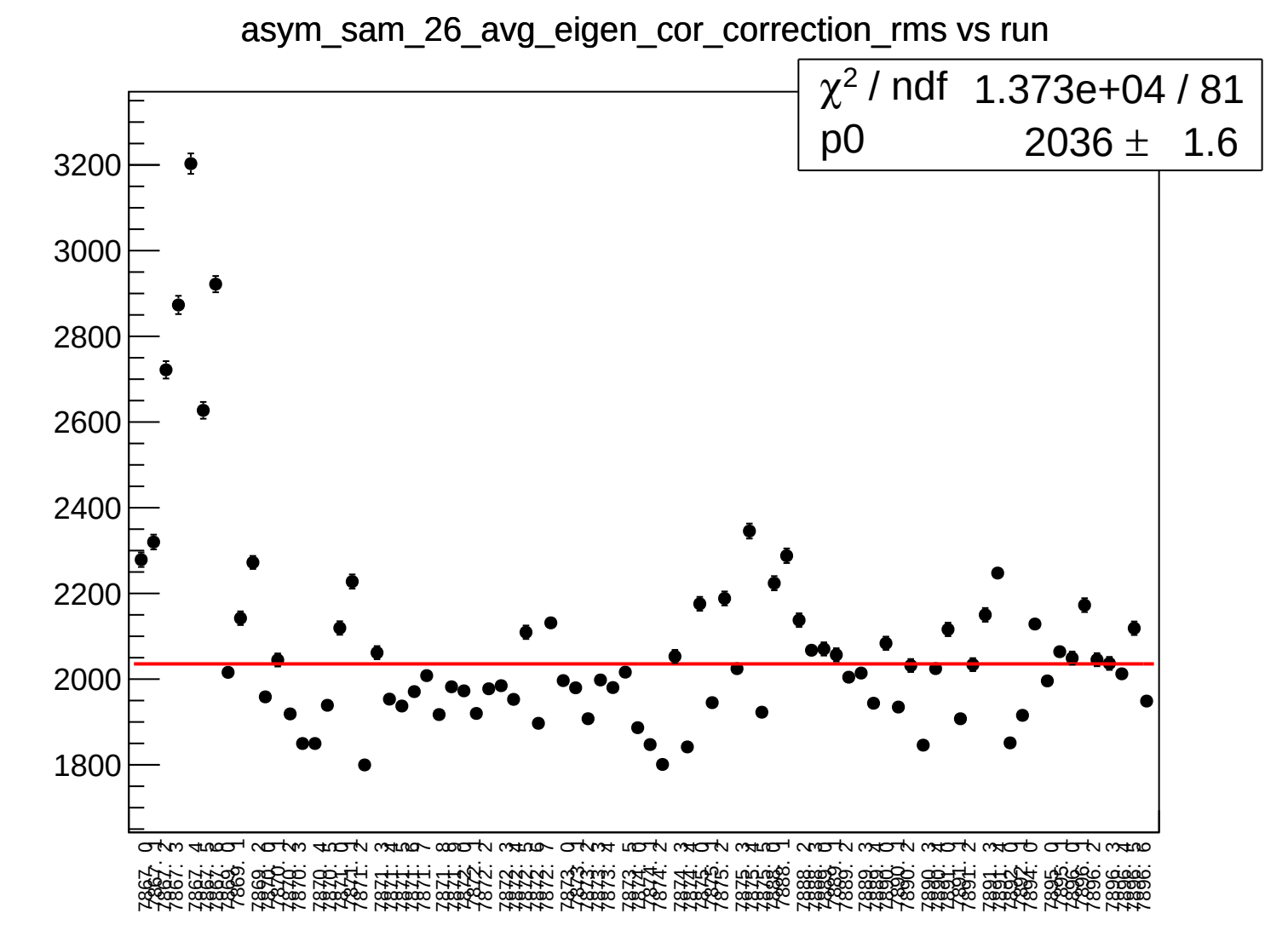

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.373e+04 / 81
p0 2036 ± 1.6
3200
3000
2800
2600
2400
2200
2000
1800

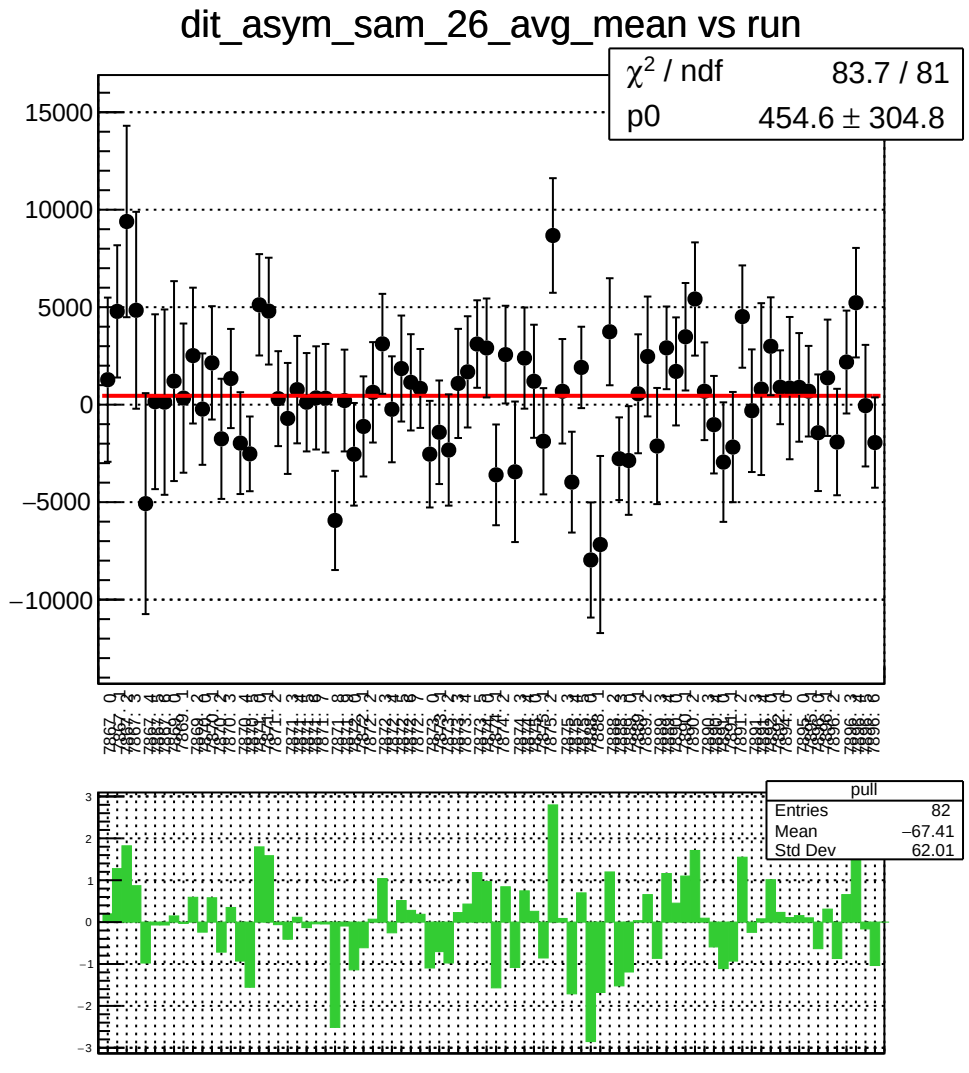

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 73.04 / 81
p0 564 ± 283.4
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 225.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003708
Std Dev 0.9438
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

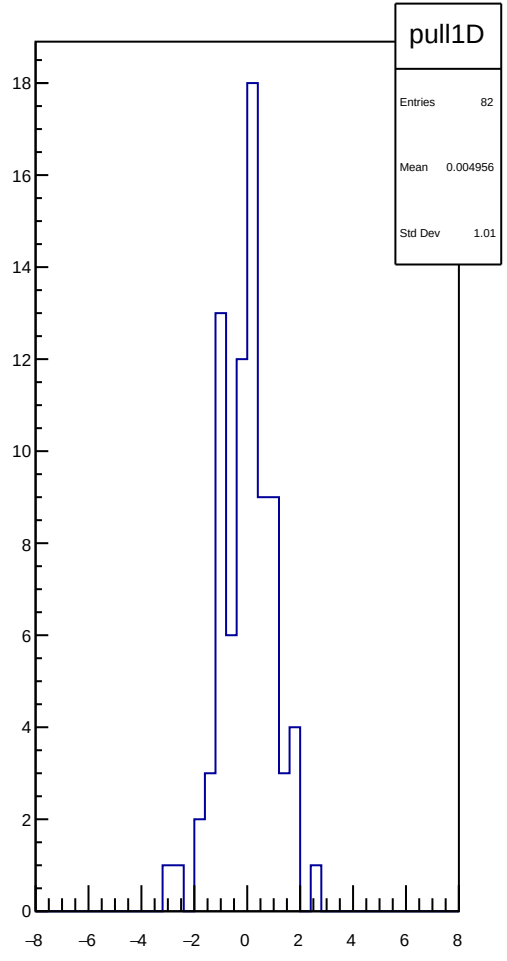

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 4.485e+04 / 81
p0 252.5 ± 0.2004
500
450
400
350
300
250
200

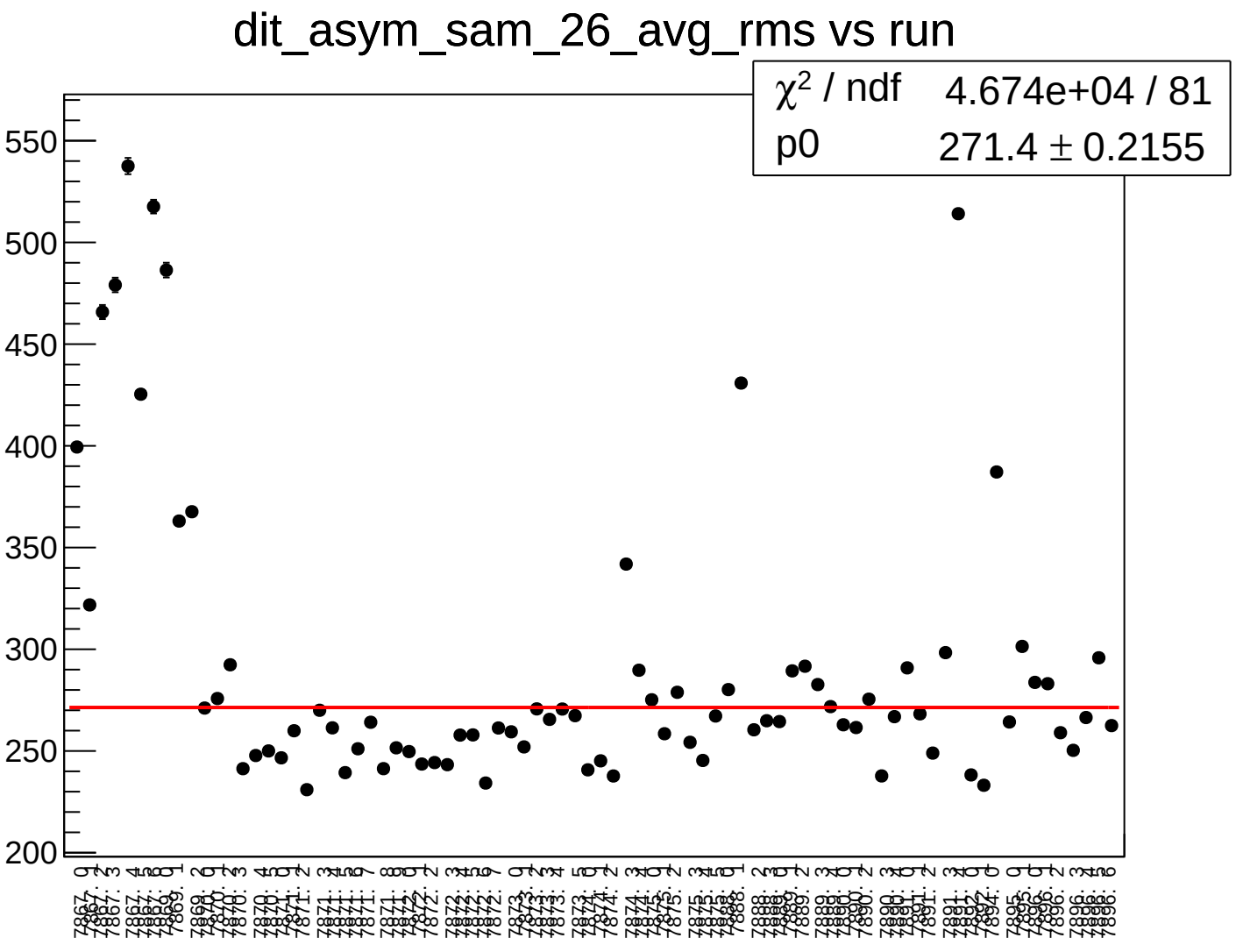

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.75 / 81
p0 −510.5 ± 2263
pull
Entries 82
Mean −184.7
Std Dev 0

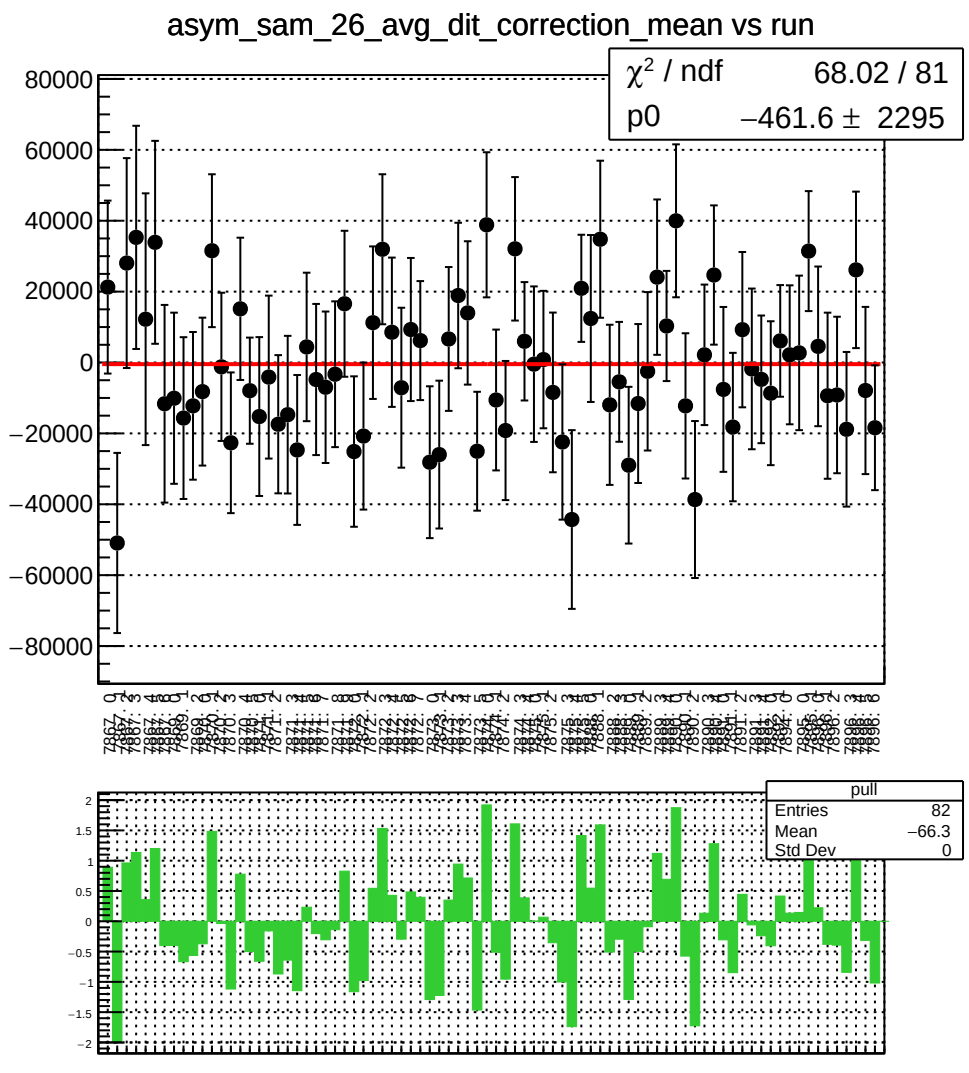

pull1D
Entries 82
Mean −0.004326
Std Dev 0.9156

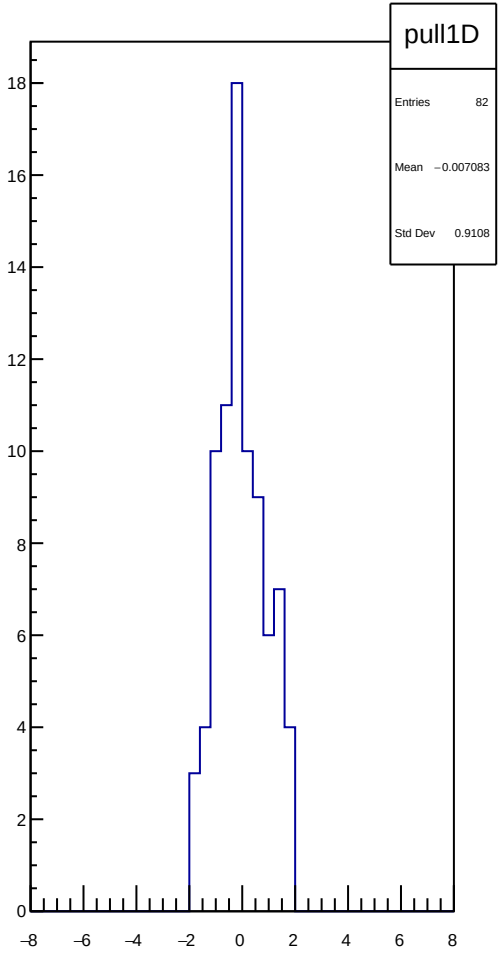

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.373e+04 / 81
p0 2036 ± 1.6
3200
3000
2800
2600
2400
2200
2000
1800

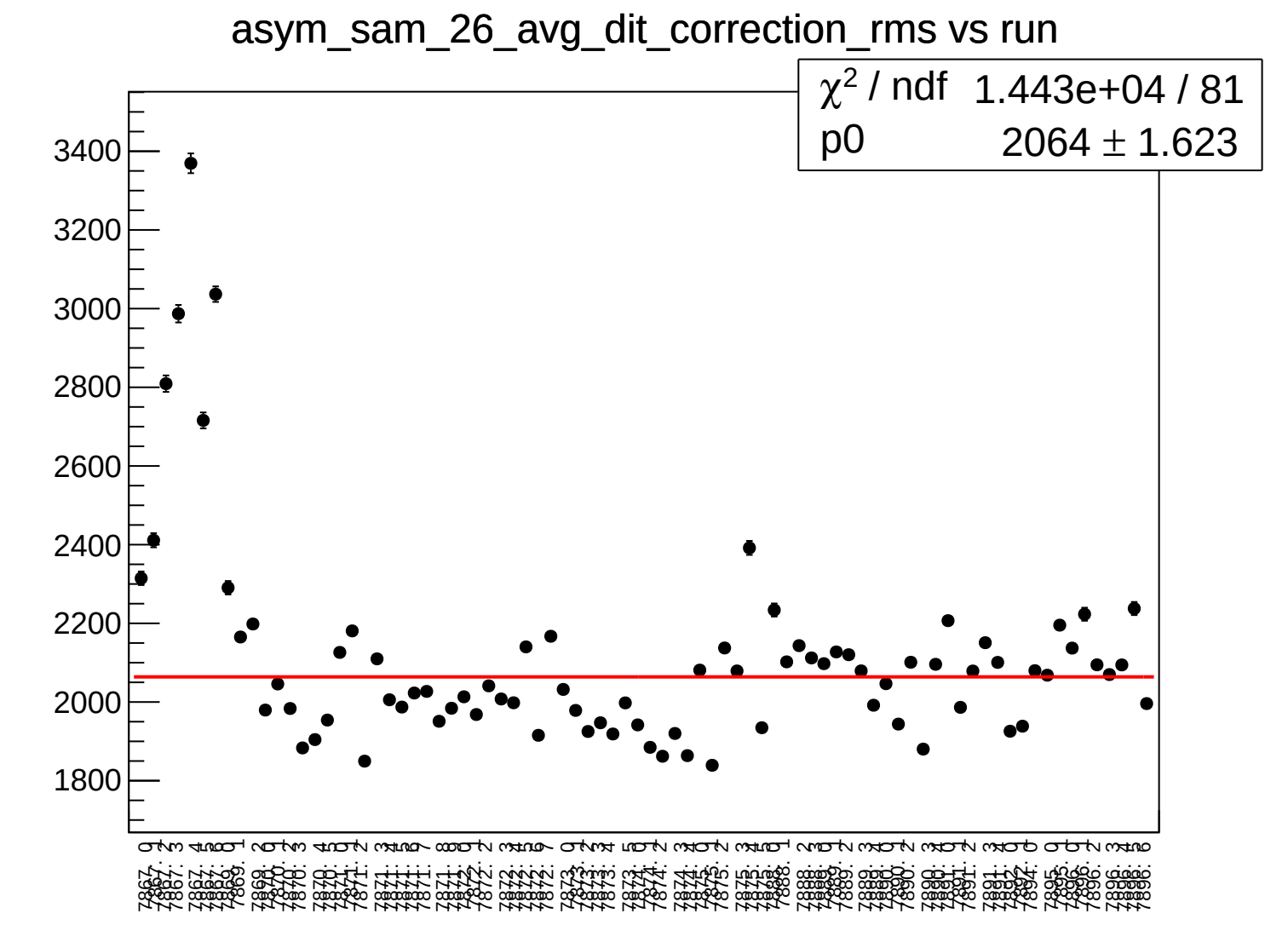

dit_asym_sam_26_avg_mean vs run
χ² / ndf 83.7 / 81
p0 454.6 ± 304.8
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −67.41
Std Dev 62.01
3
2
1
0
−1
−2
−3

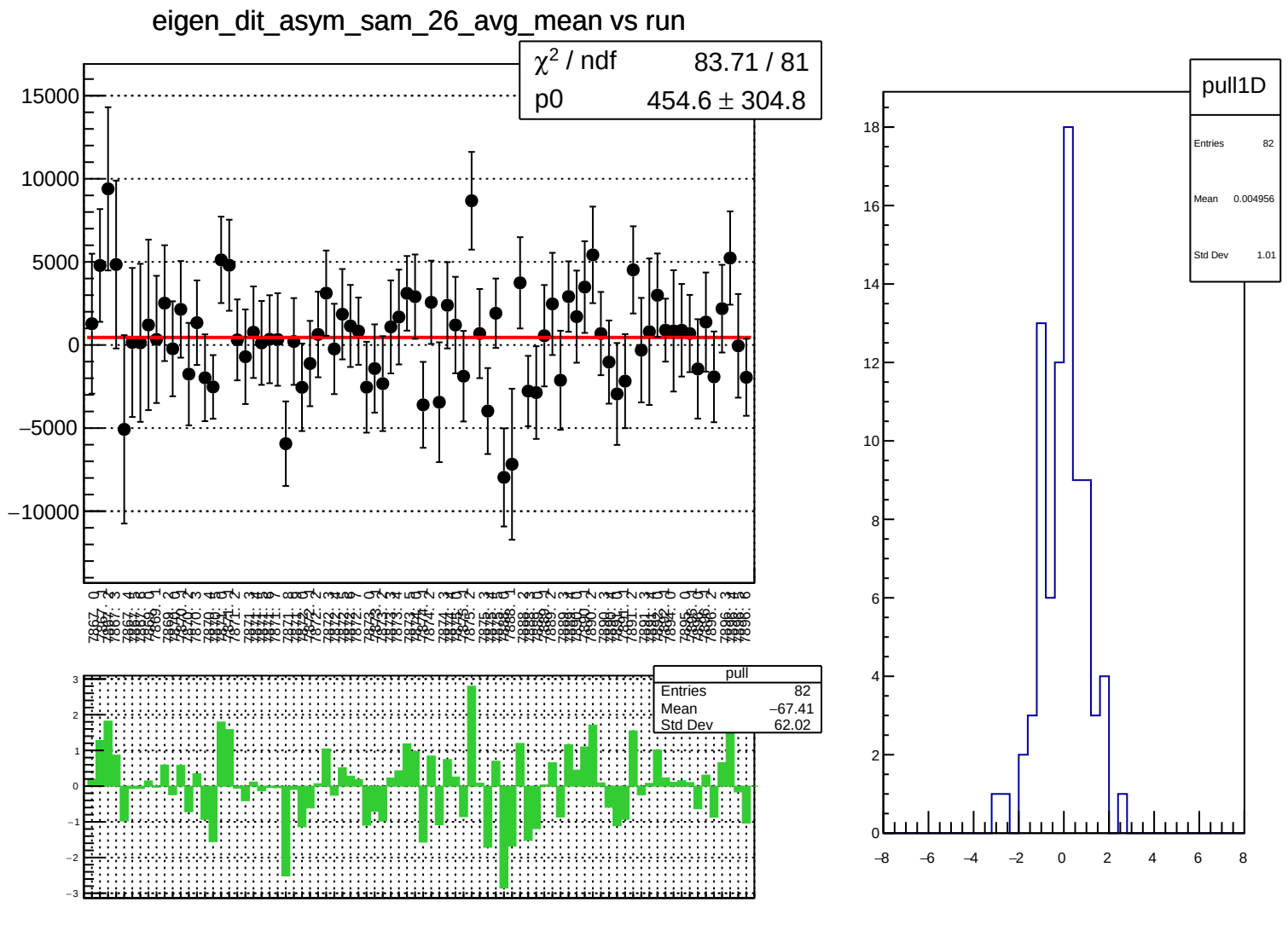

pull1D
Entries 82
Mean 0.004956
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

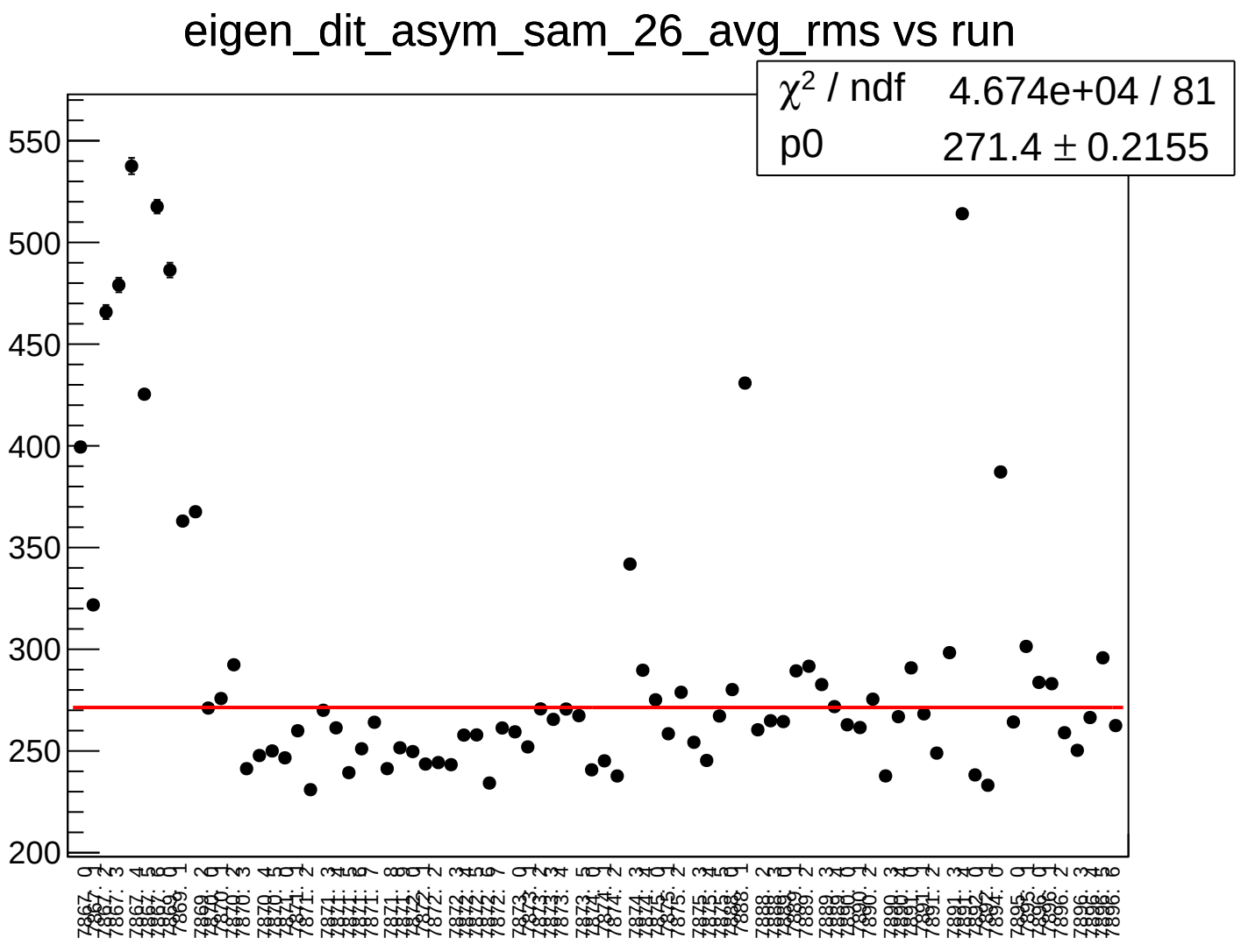

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.674e+04 / 81
p0 271.4 ± 0.2155
550
500
450
400
350
300
250
200

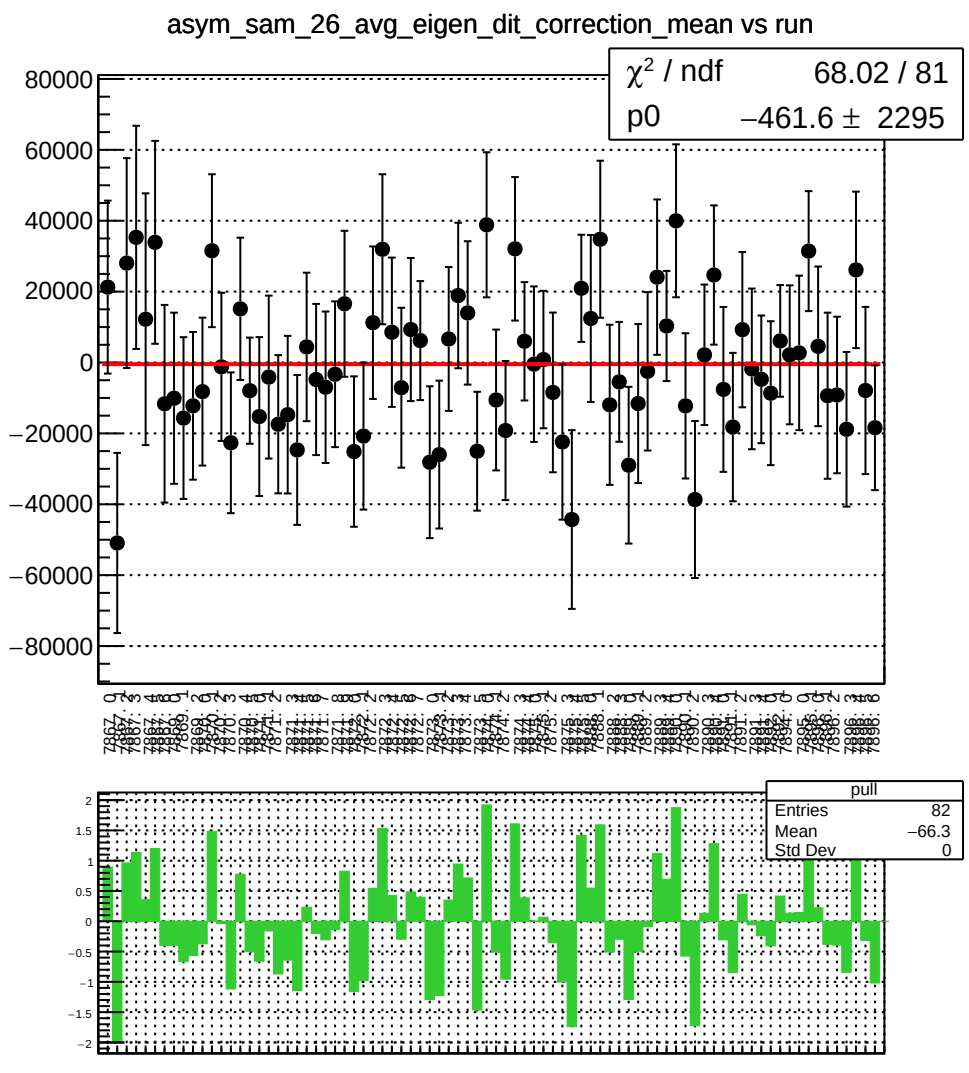

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 68.02 / 81
p0 −461.6 ± 2295
pull
Entries 82
Mean −66.3
Std Dev 0

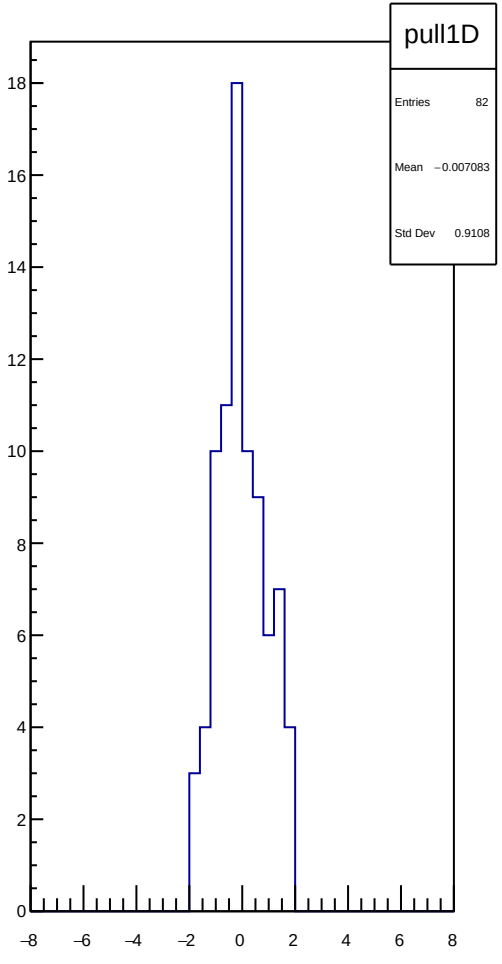

pull1D
Entries 82
Mean −0.007083
Std Dev 0.9108

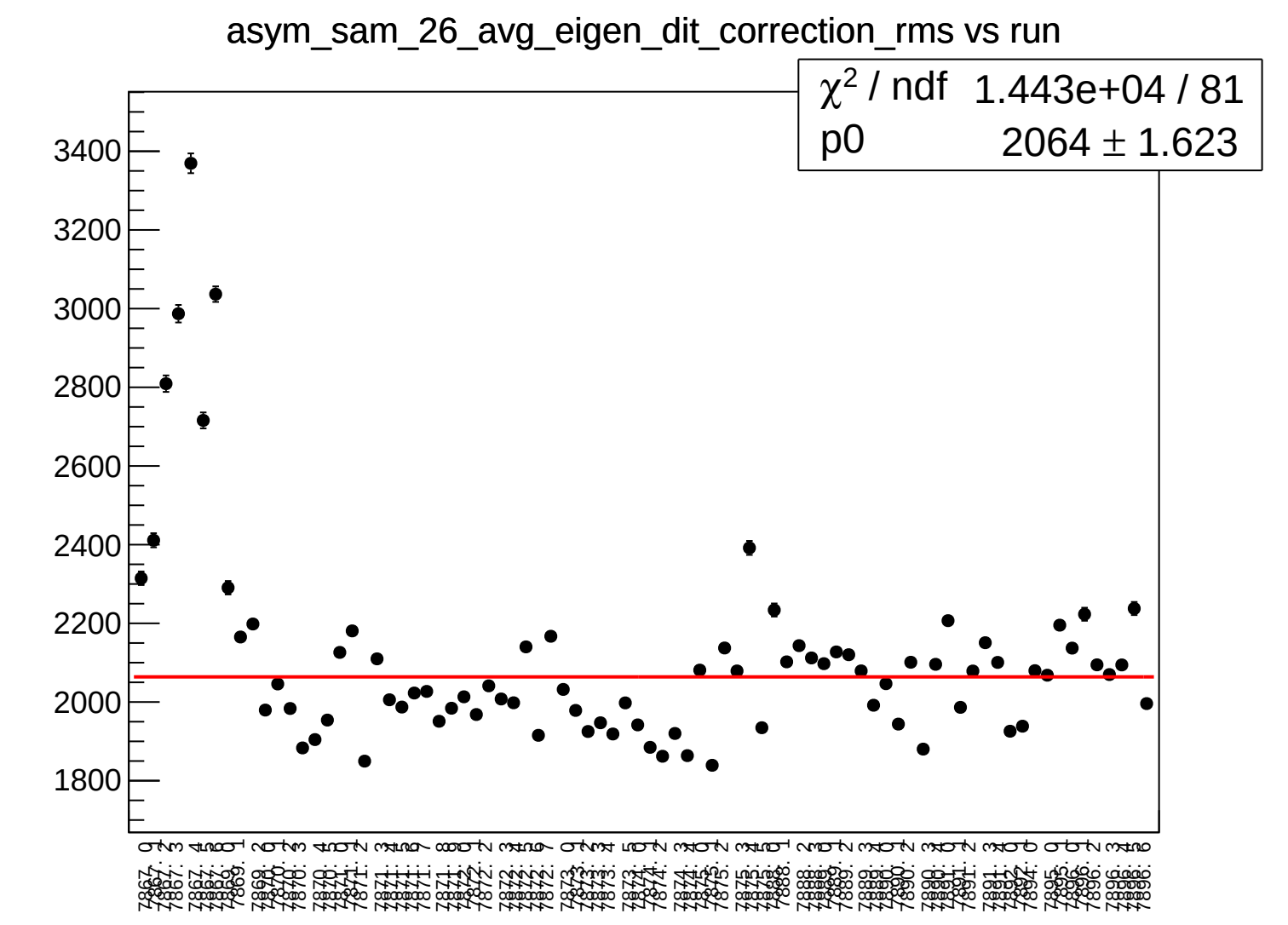

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.443e+04 / 81
p0 2064 ± 1.623
3400
3200
3000
2800
2600
2400
2200
2000
1800

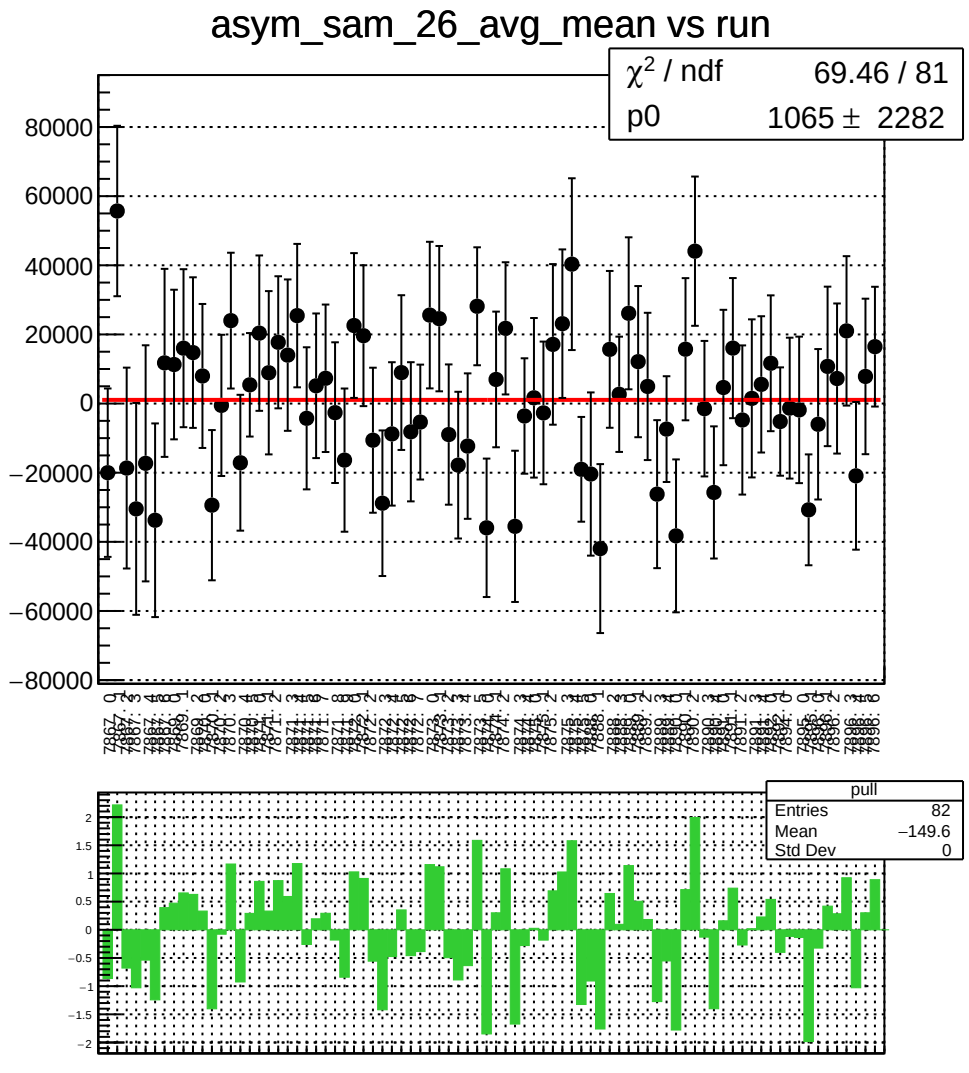

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 83.71 / 81
p0 454.6 ± 304.8
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −67.41
Std Dev 62.02
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.004956
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

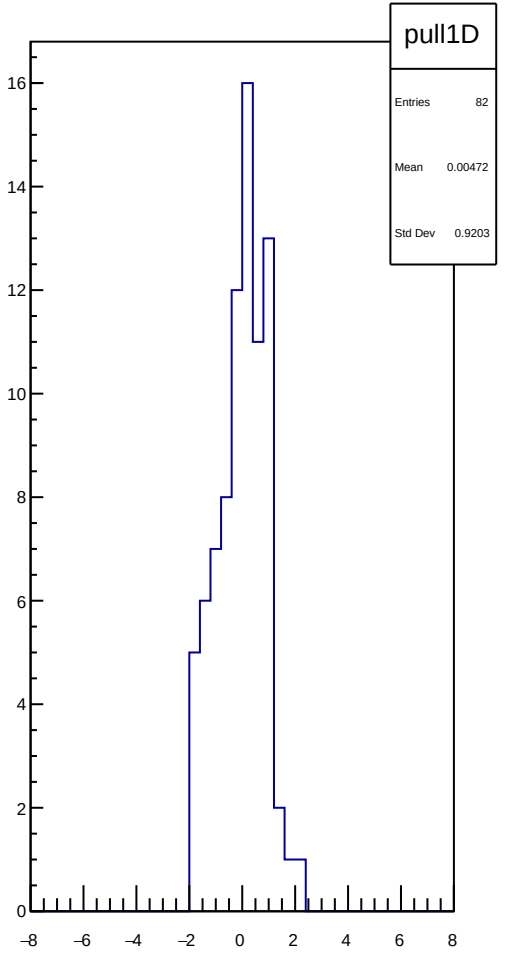

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 4.674e+04 / 81
p0 271.4 ± 0.2155
550
500
450
400
350
300
250
200

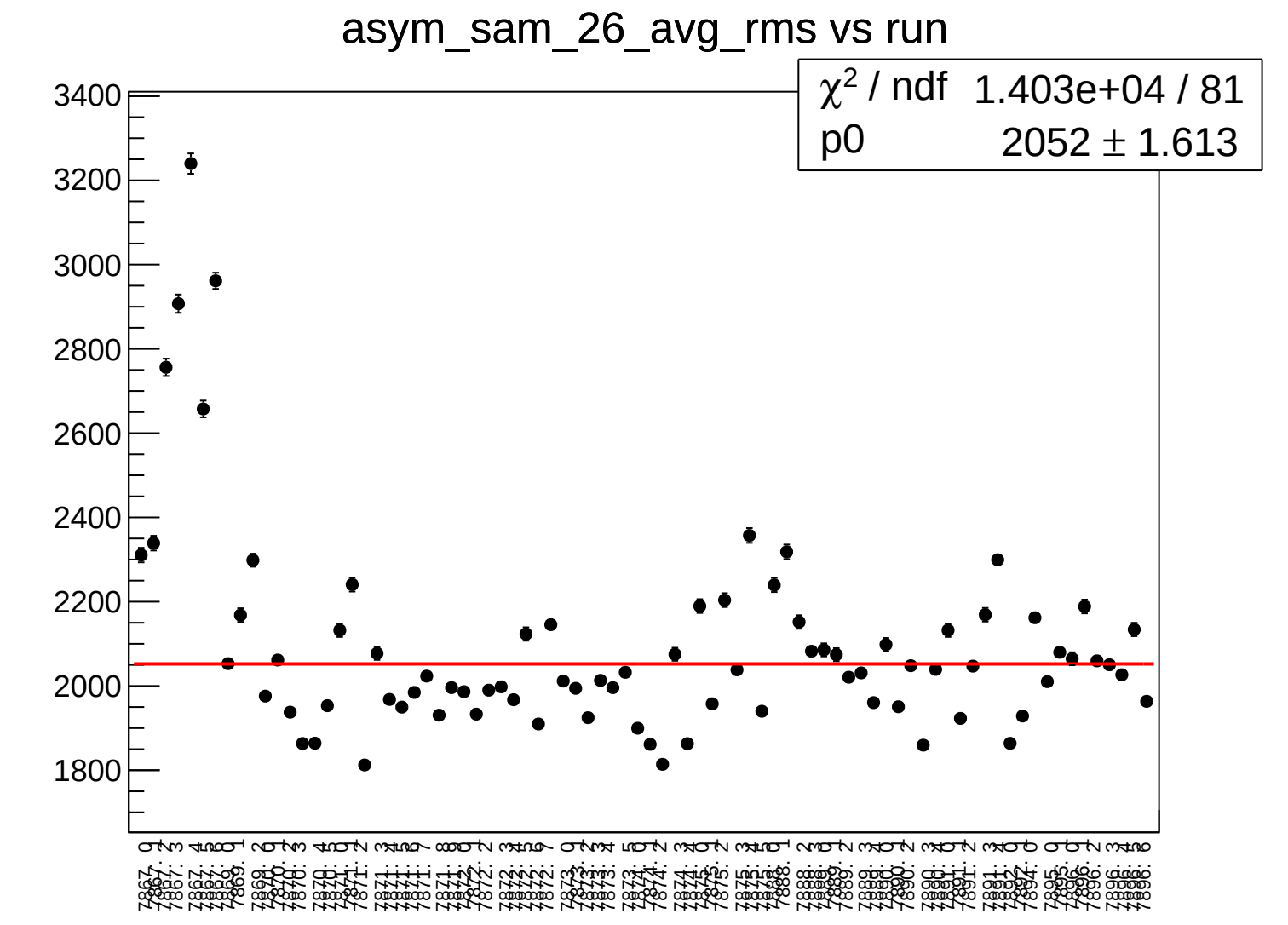

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.02 / 81
p0 −461.6 ± 2295
pull
Entries 82
Mean −66.3
Std Dev 0

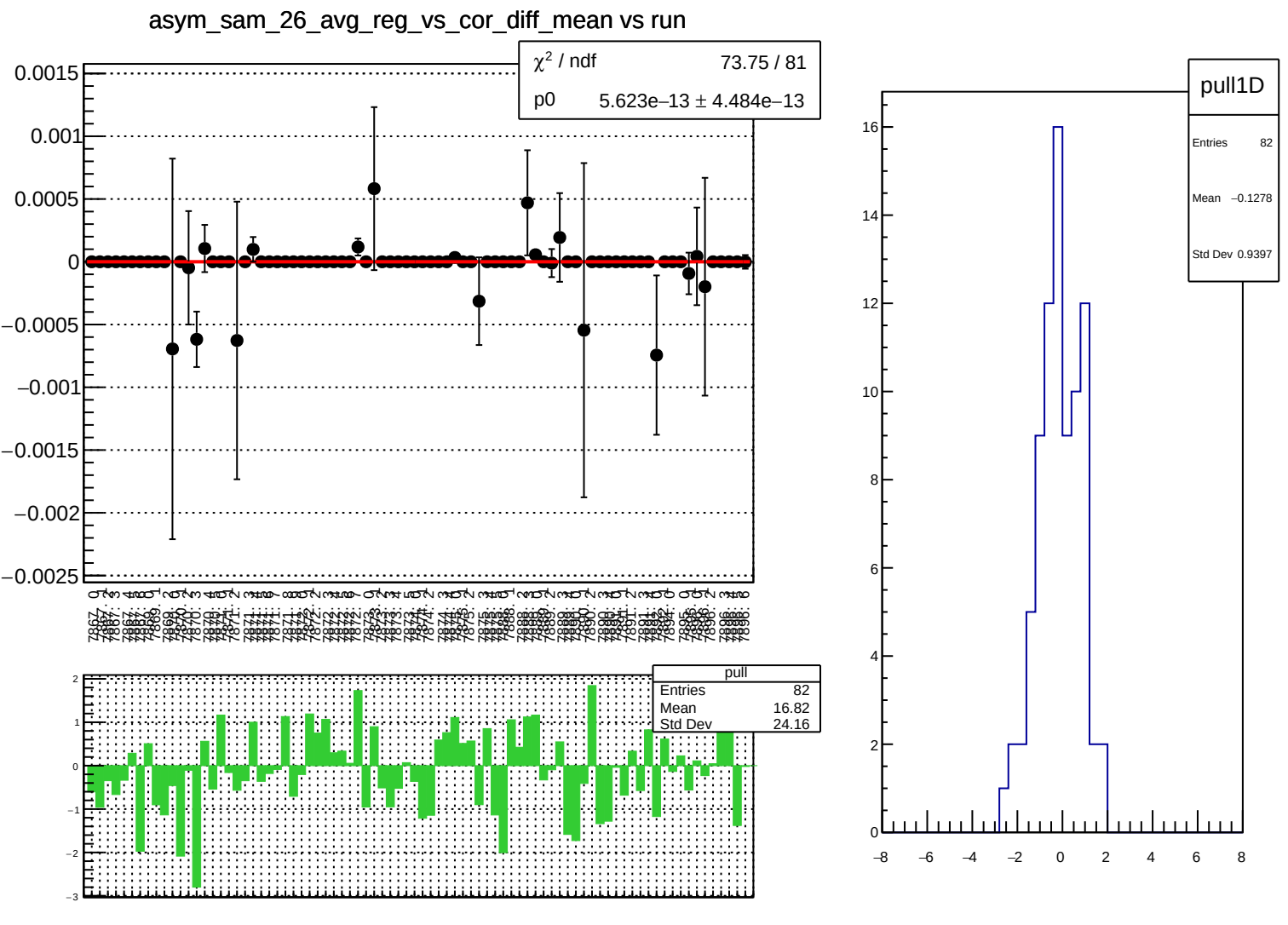

pull1D
Entries 82
Mean −0.007083
Std Dev 0.9108

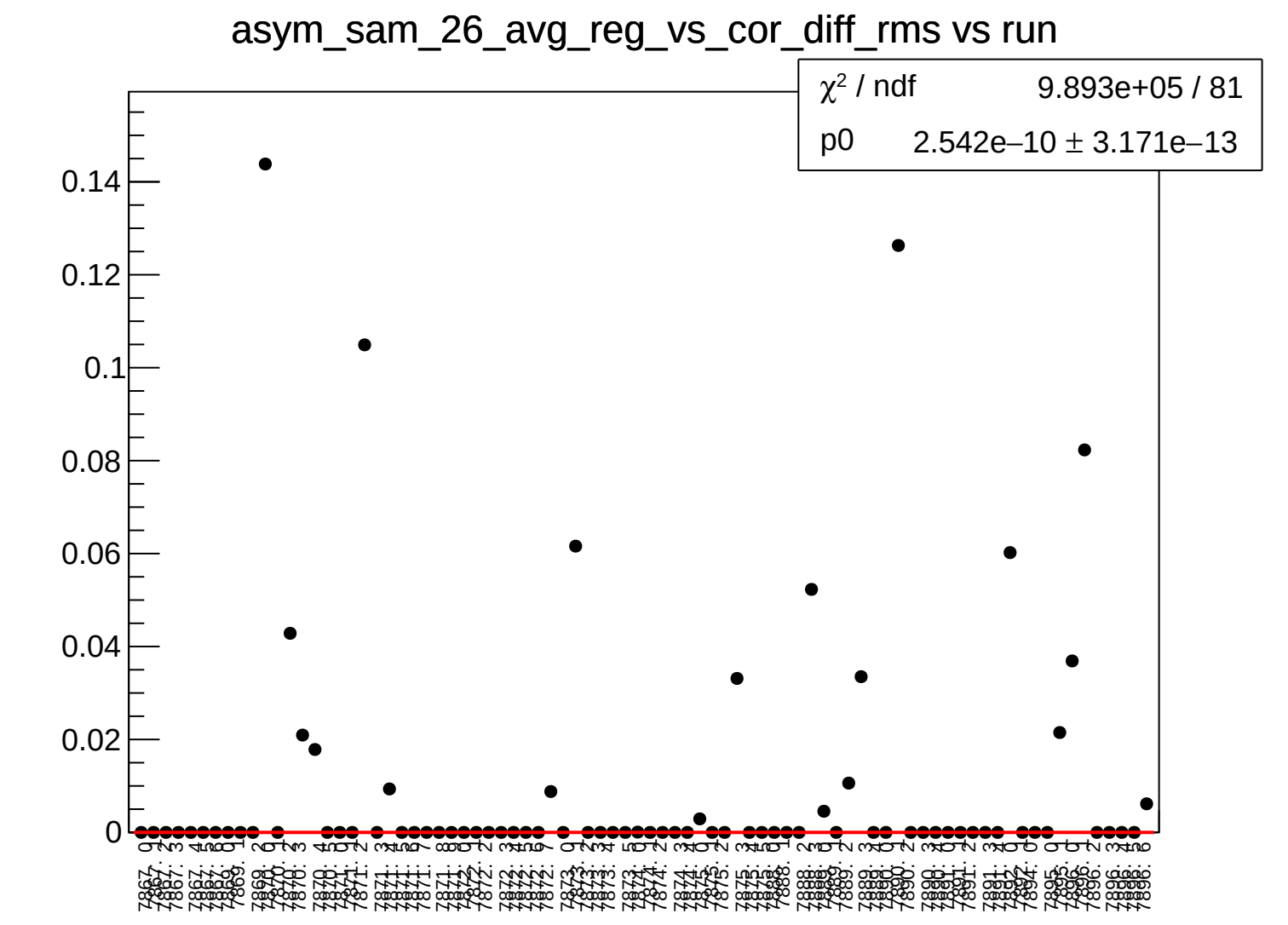

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.443e+04 / 81
p0 2064 ± 1.623
3400
3200
3000
2800
2600
2400
2200
2000
1800

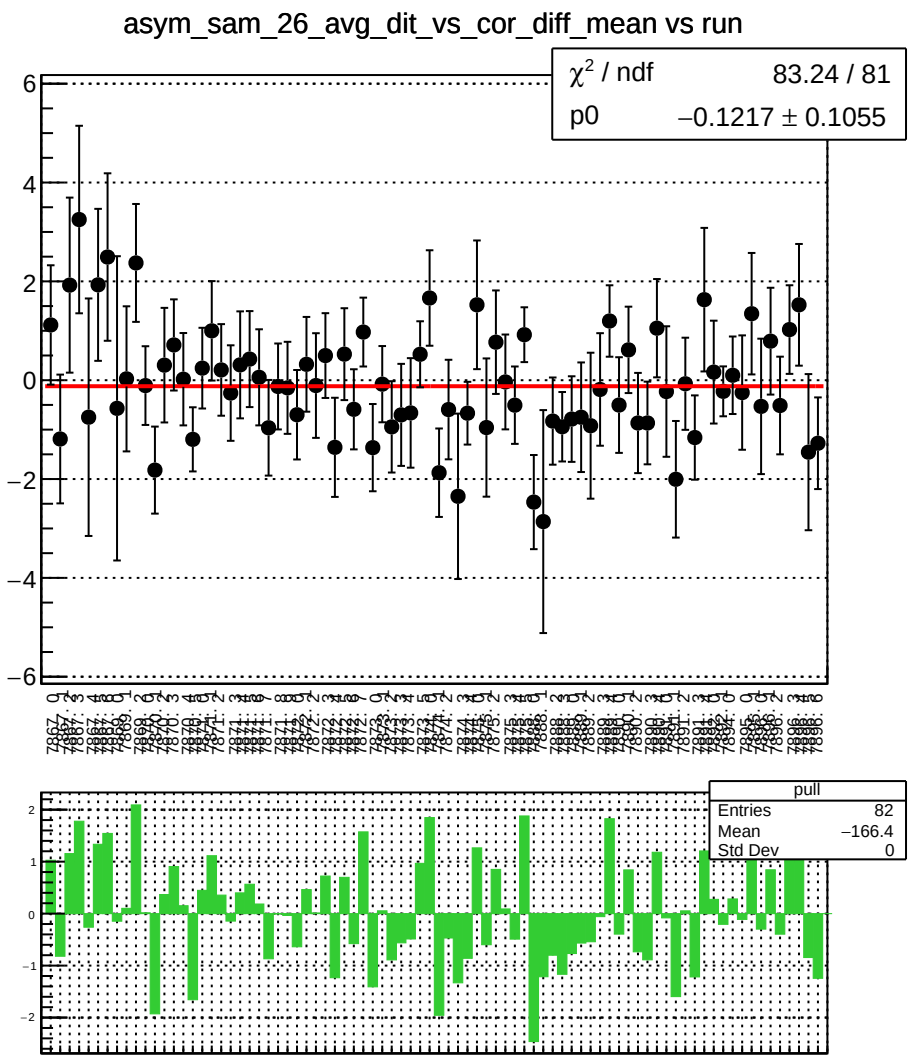

asym_sam_26_avg_mean vs run
χ² / ndf 69.46 / 81
p0 1065 ± 2282
pull
Entries 82
Mean −149.6
Std Dev 0

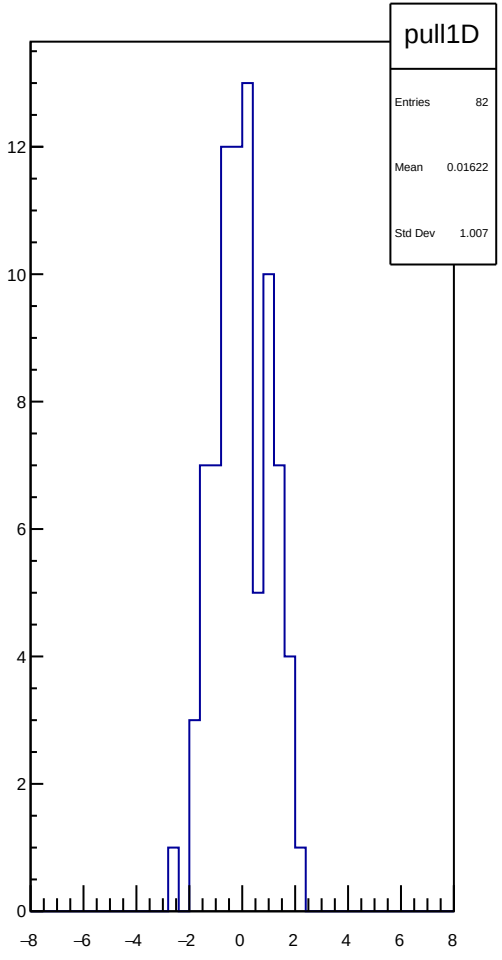

pull1D
Entries 82
Mean 0.00472
Std Dev 0.9203

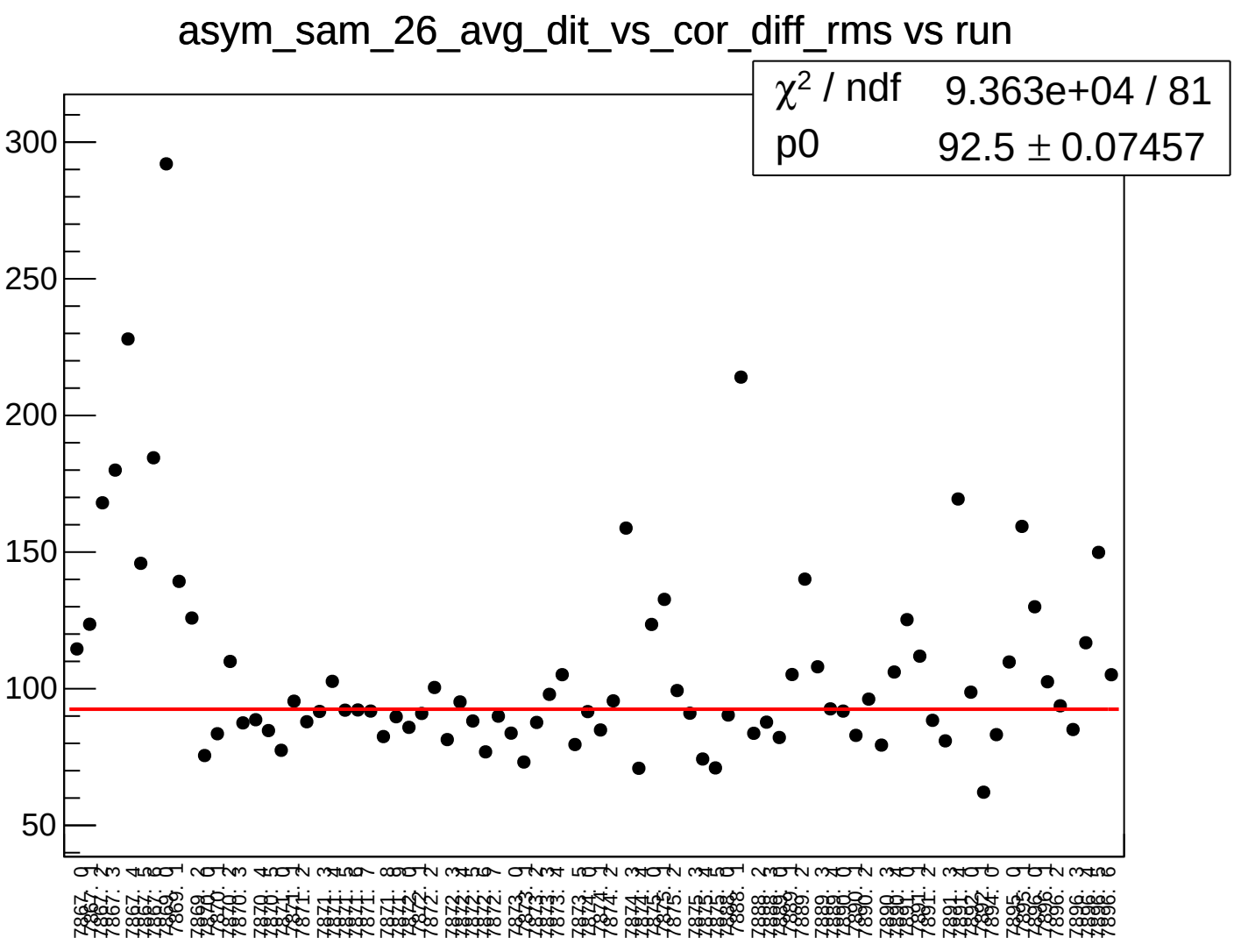

asym_sam_26_avg_rms vs run
χ² / ndf 1.403e+04 / 81
p0 2052 ± 1.613
3400
3200
3000
2800
2600
2400
2200
2000
1800

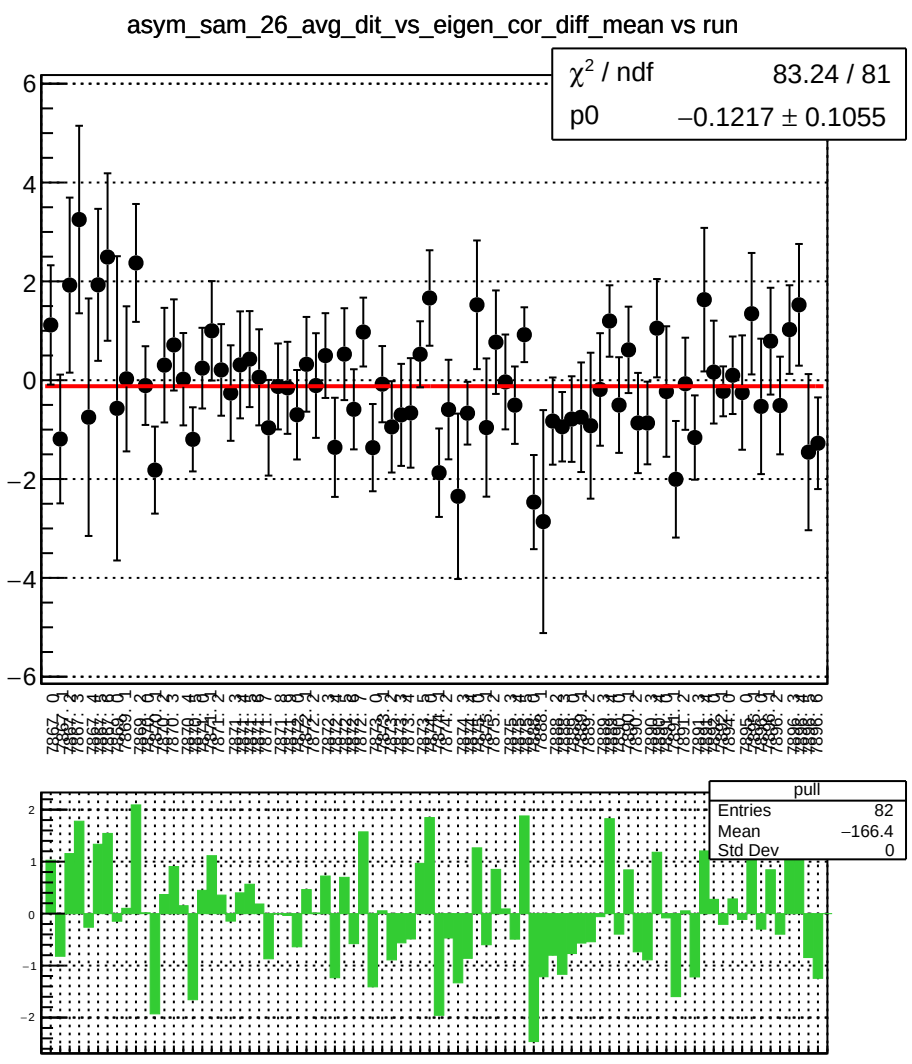

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.75 / 81
p0 5.623e−13 ± 4.484e−13
pull
Entries 82
Mean 16.82
Std Dev 24.16
pull1D
Entries 82
Mean −0.1278
Std Dev 0.9397

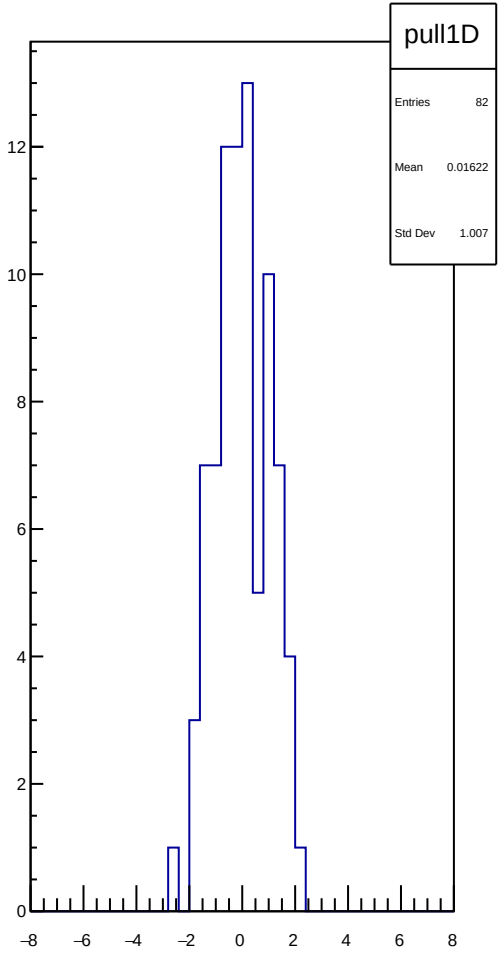

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.893e+05 / 81
p0 2.542e−10 ± 3.171e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

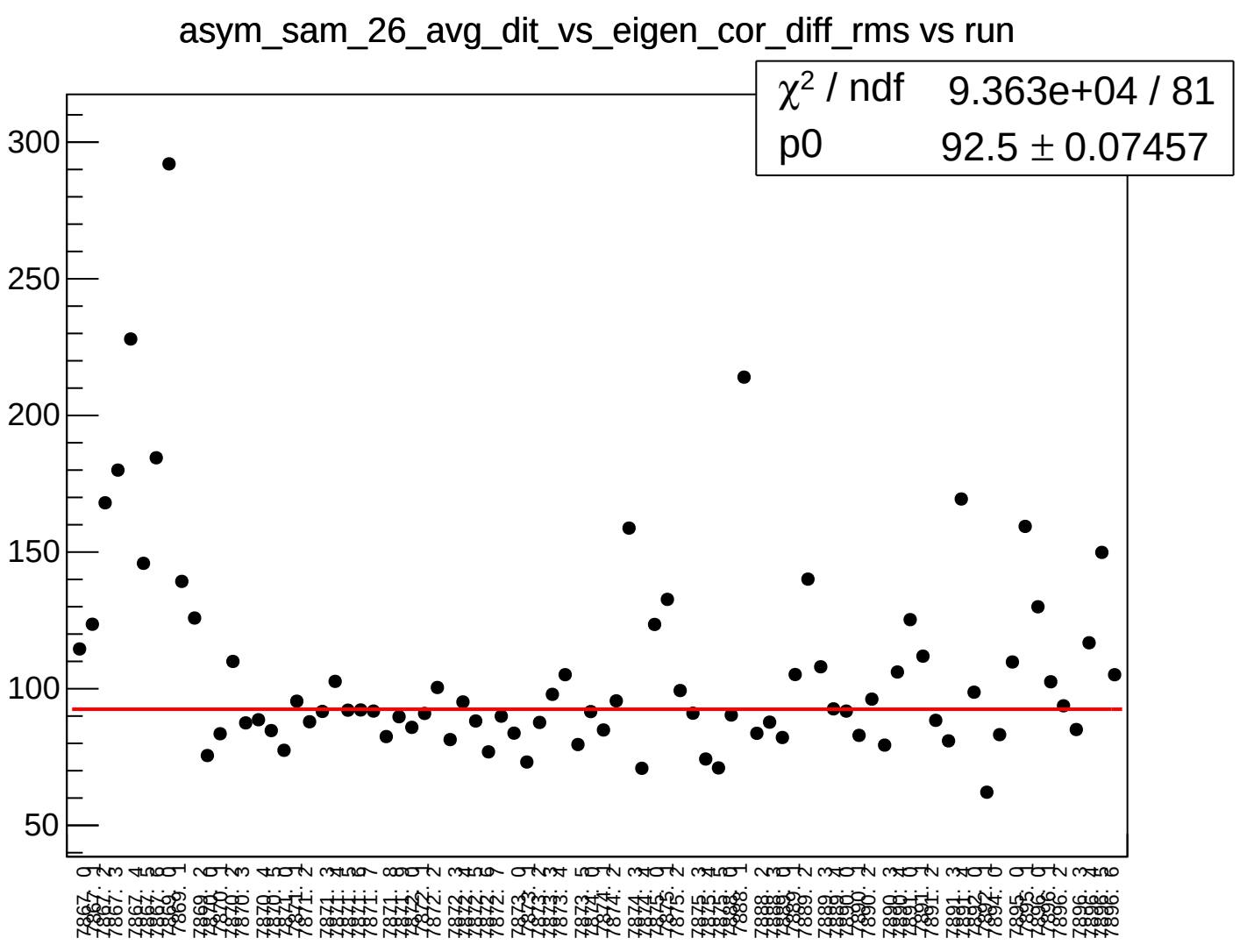

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.24 / 81
p0 −0.1217 ± 0.1055
pull
Entries 82
Mean −166.4
Std Dev 0

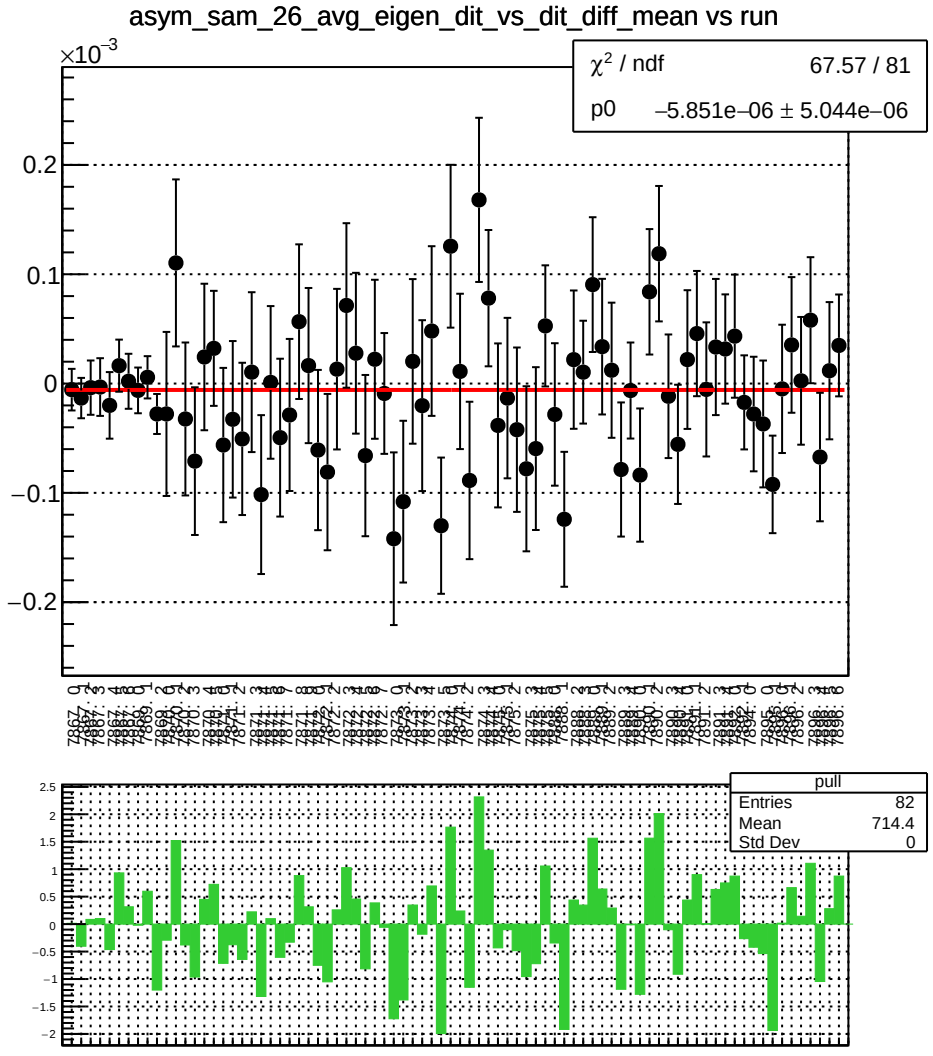

pull1D
Entries 82
Mean 0.01622
Std Dev 1.007

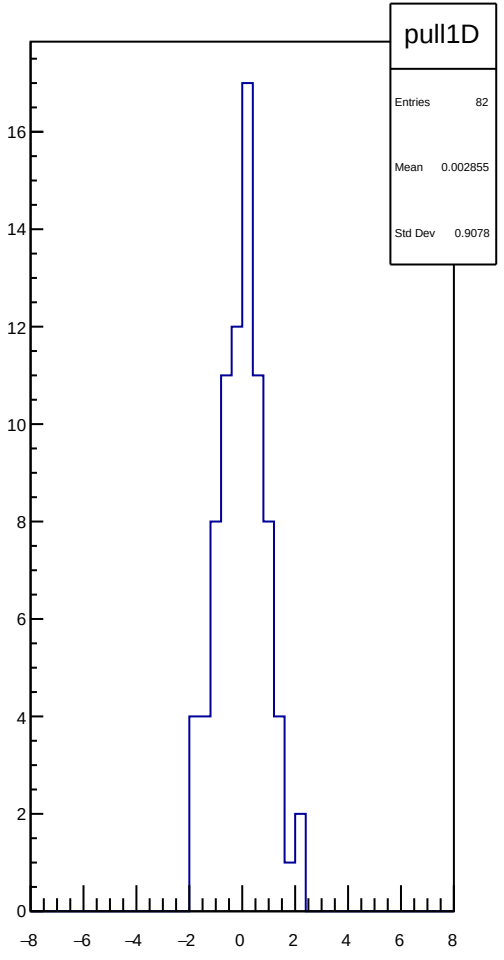

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.363e+04 / 81
p0 92.5 ± 0.07457
300
250
200
150
100
50

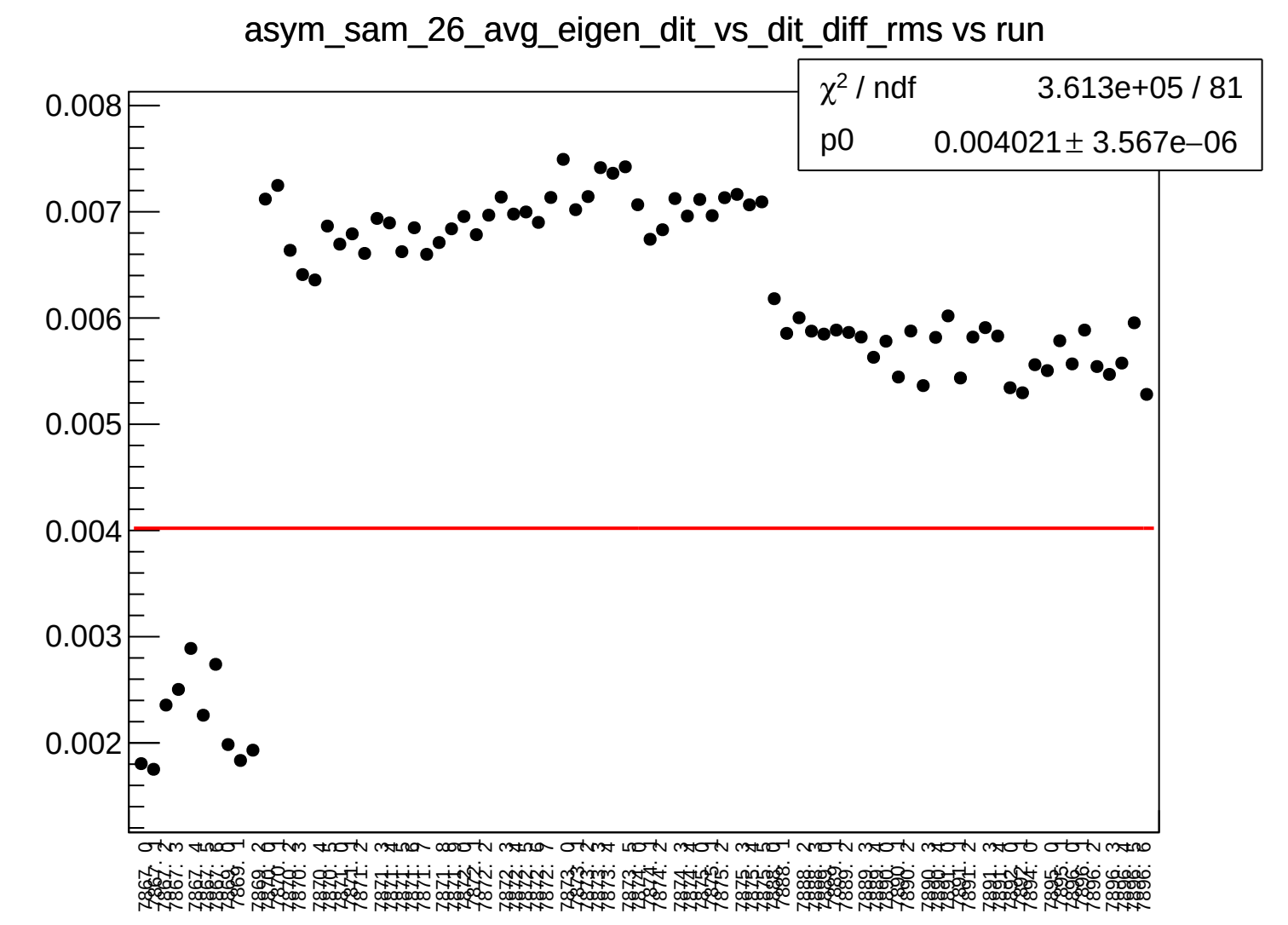

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.24 / 81
p0 −0.1217 ± 0.1055
pull
Entries 82
Mean −166.4
Std Dev 0

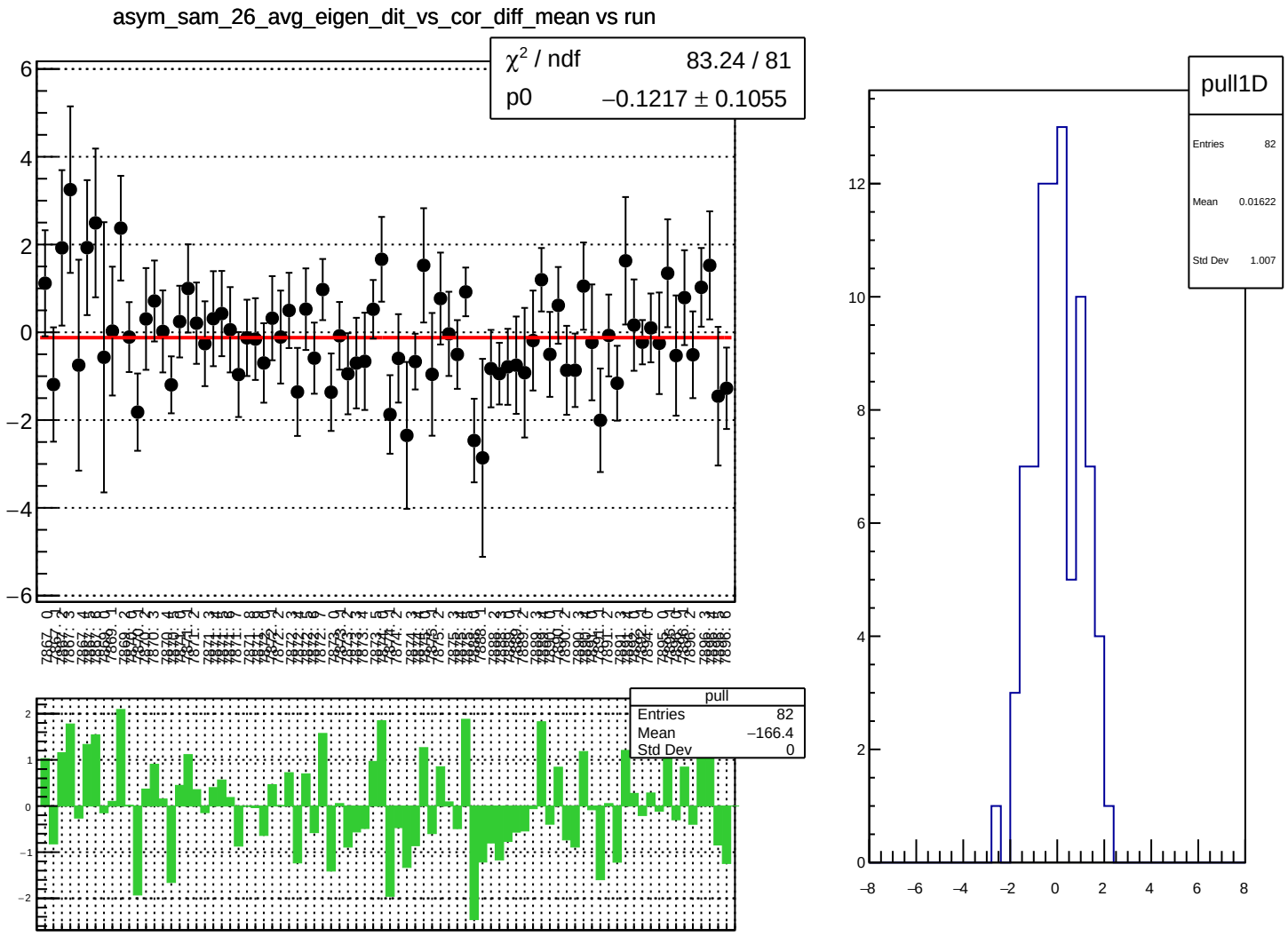

pull1D
Entries 82
Mean 0.01622
Std Dev 1.007

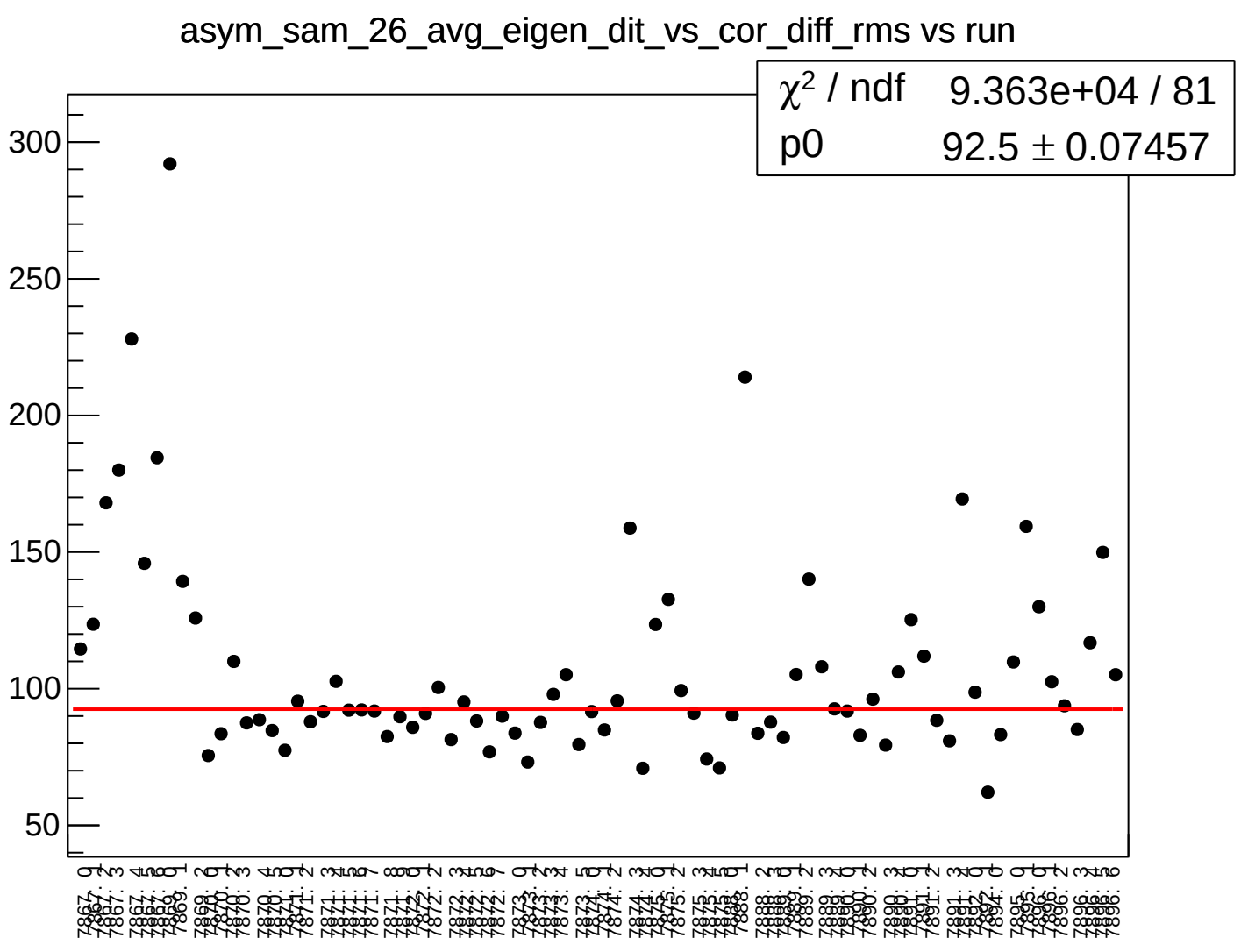

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.363e+04 / 81
p0 92.5 ± 0.07457
300
250
200
150
100
50

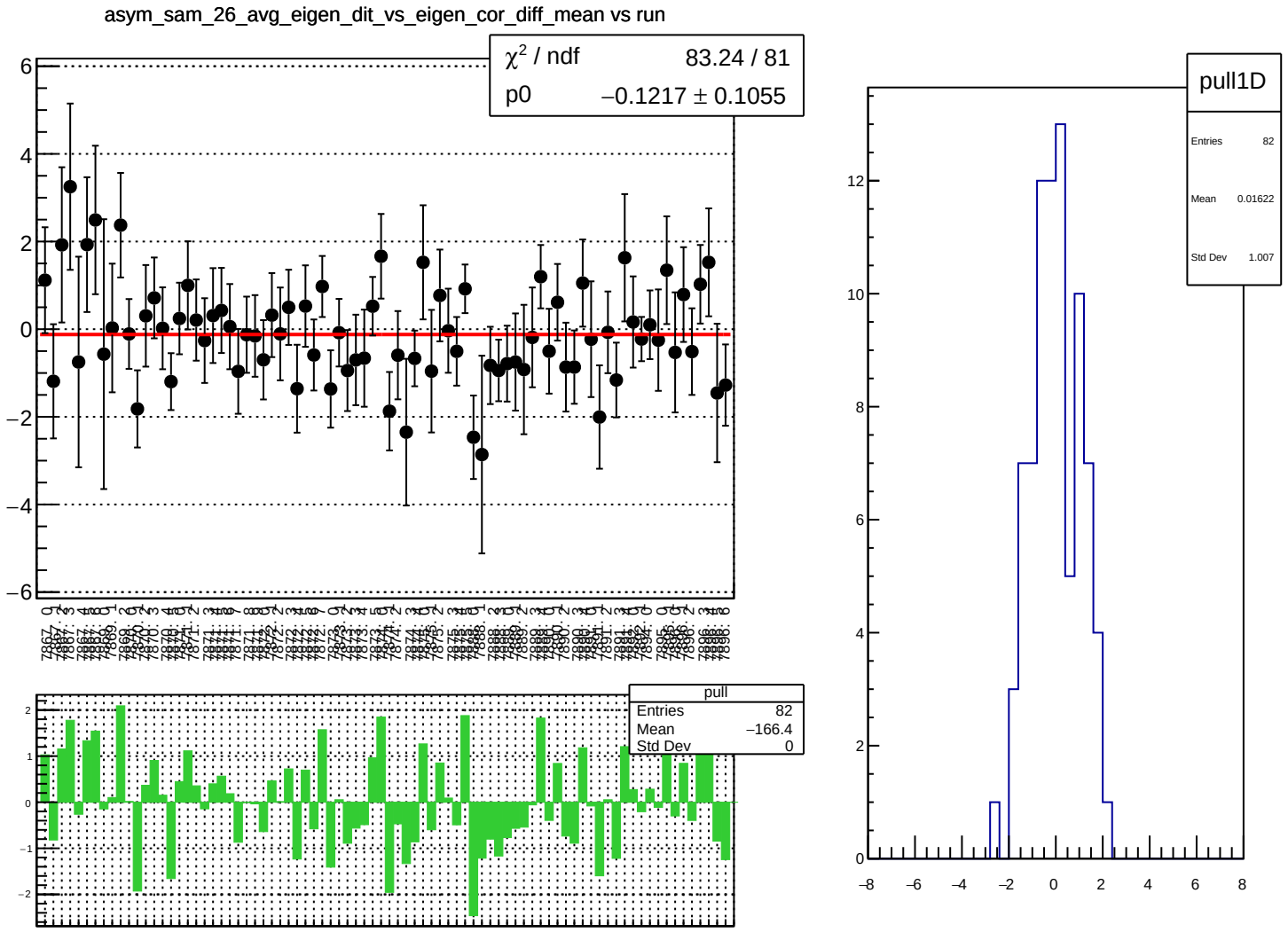

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.57 / 81
p0 −5.851e−06 ± 5.044e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 82
Mean 714.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

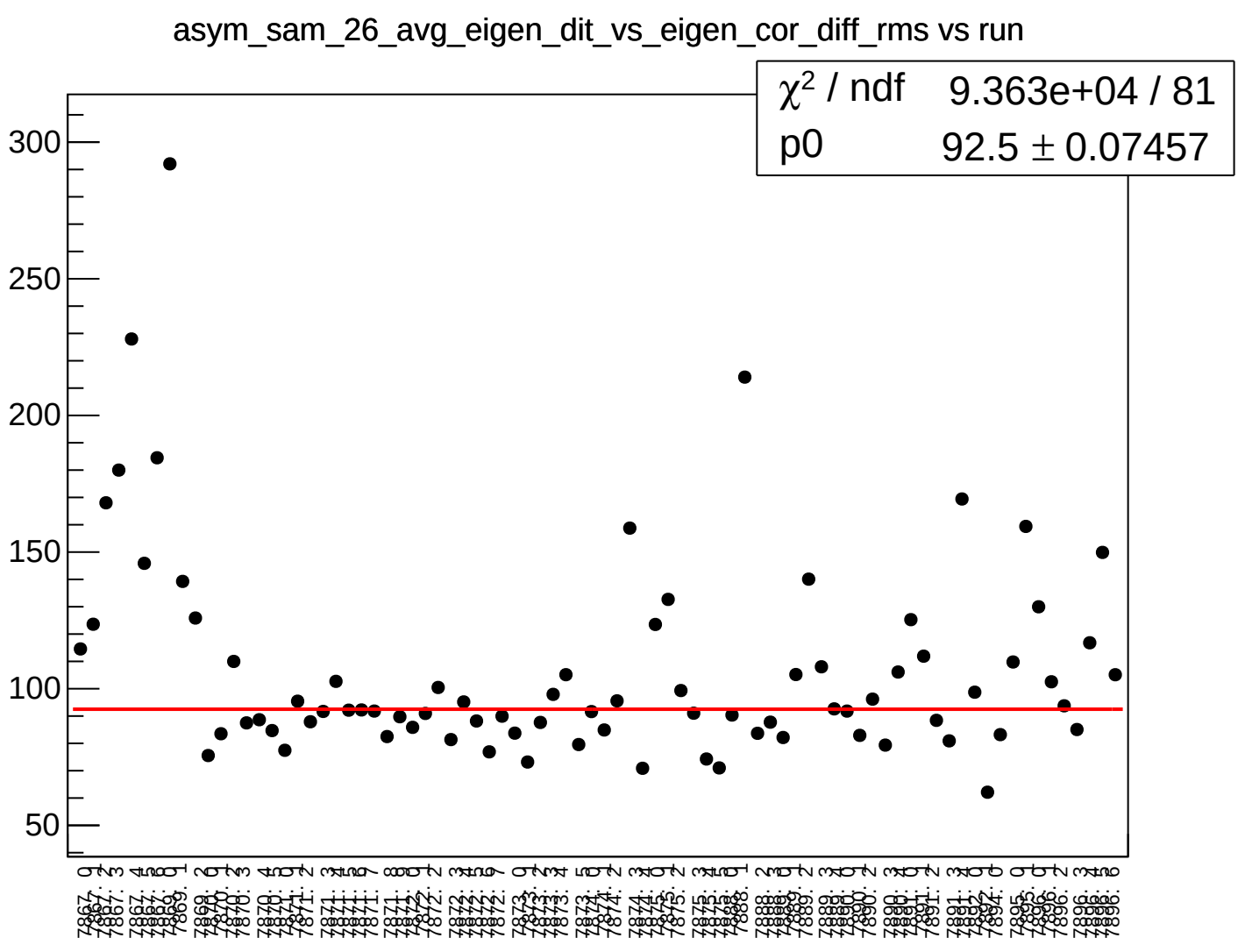

pull1D
Entries 82
Mean 0.002855
Std Dev 0.9078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

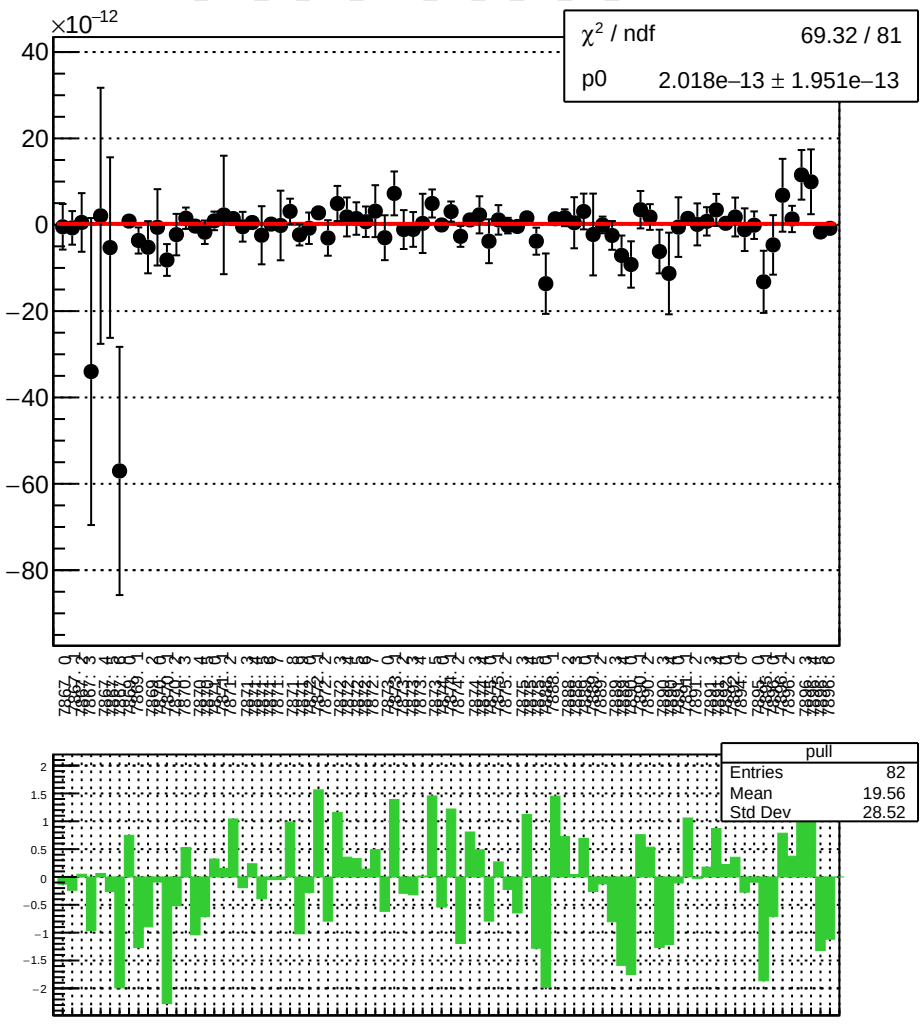

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.613e+05 / 81
p0 0.004021 ± 3.567e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

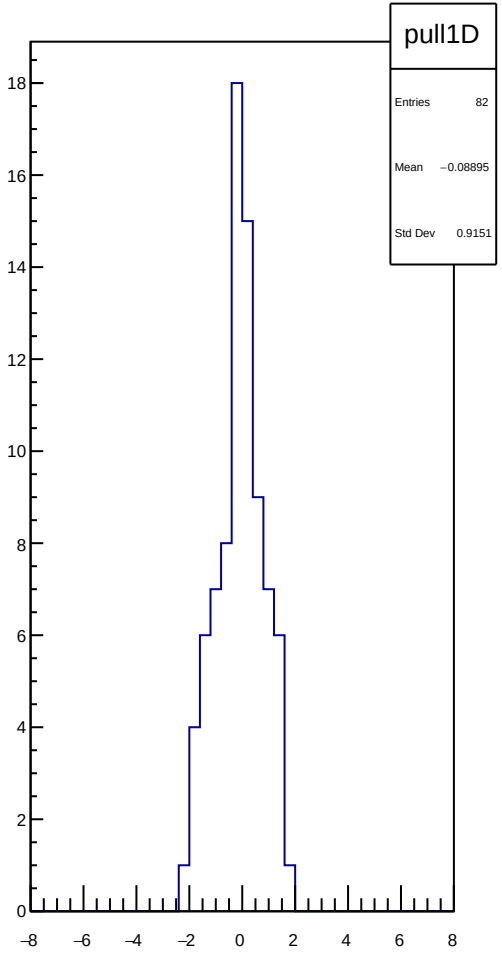

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.24 / 81
p0 −0.1217 ± 0.1055
pull
Entries 82
Mean −166.4
Std Dev 0
pull1D
Entries 82
Mean 0.01622
Std Dev 1.007

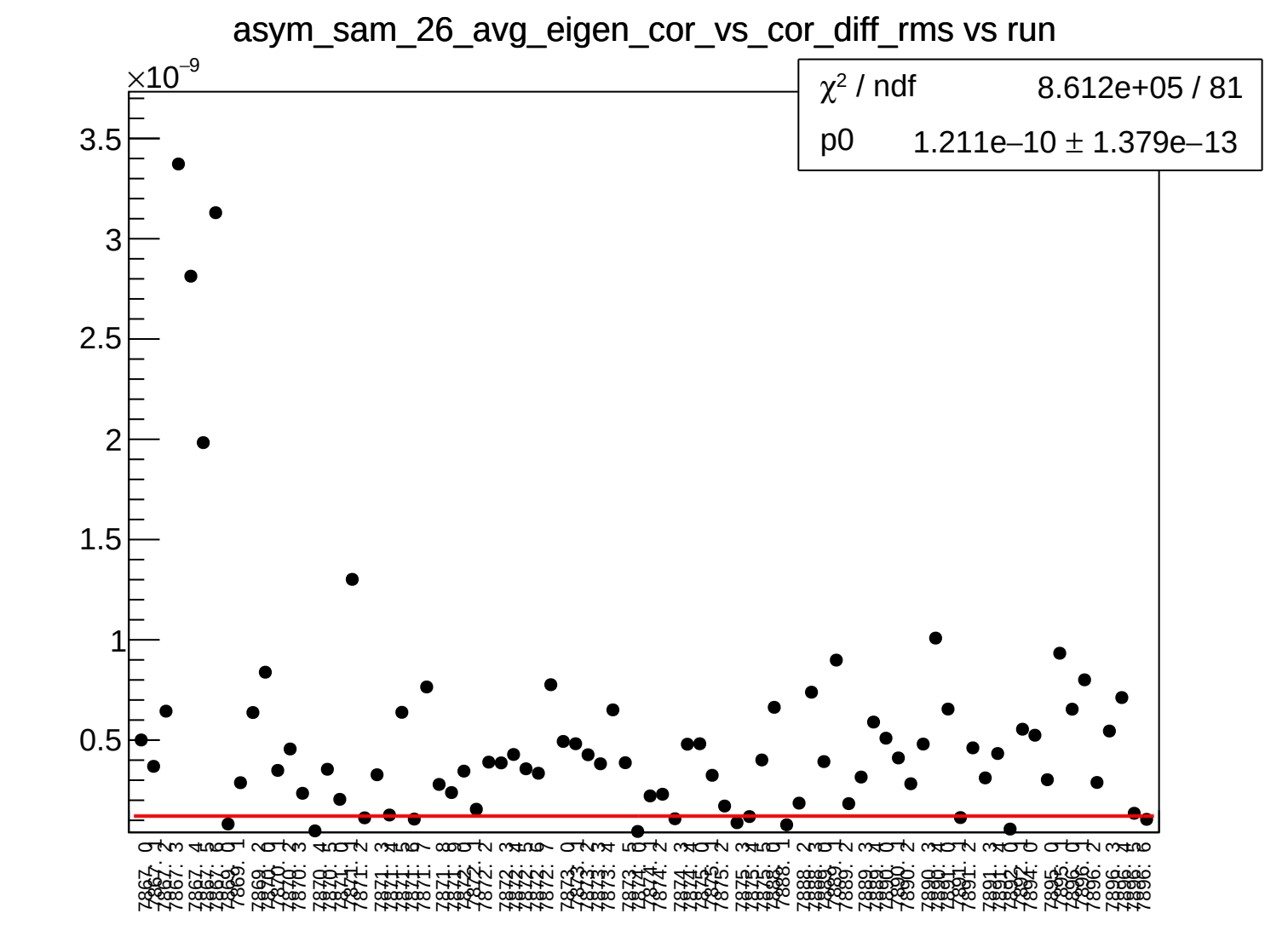

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.363e+04 / 81
p0 92.5 ± 0.07457
300
250
200
150
100
50

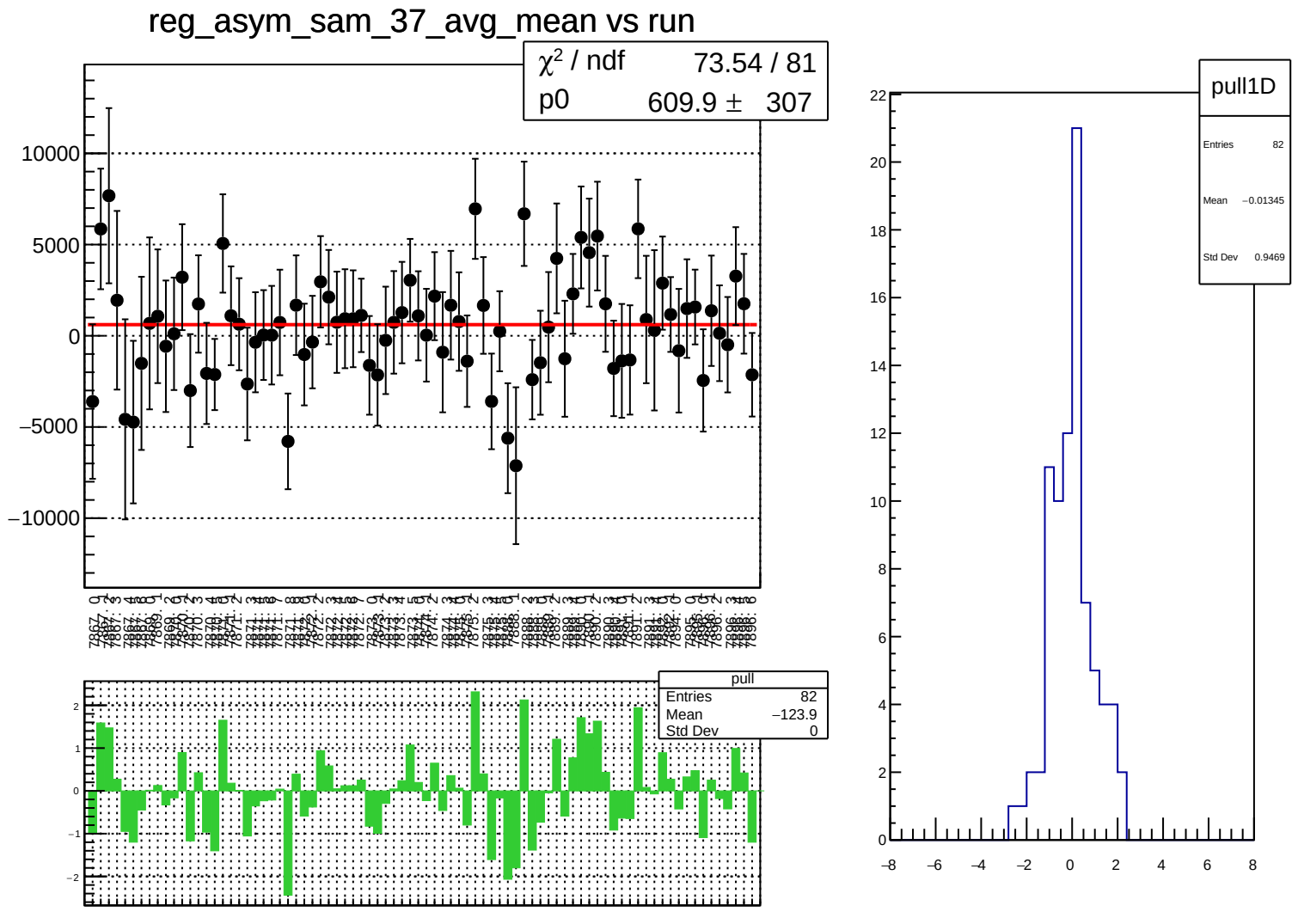

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.24 / 81
p0 −0.1217 ± 0.1055
pull
Entries 82
Mean −166.4
Std Dev 0
pull1D
Entries 82
Mean 0.01622
Std Dev 1.007

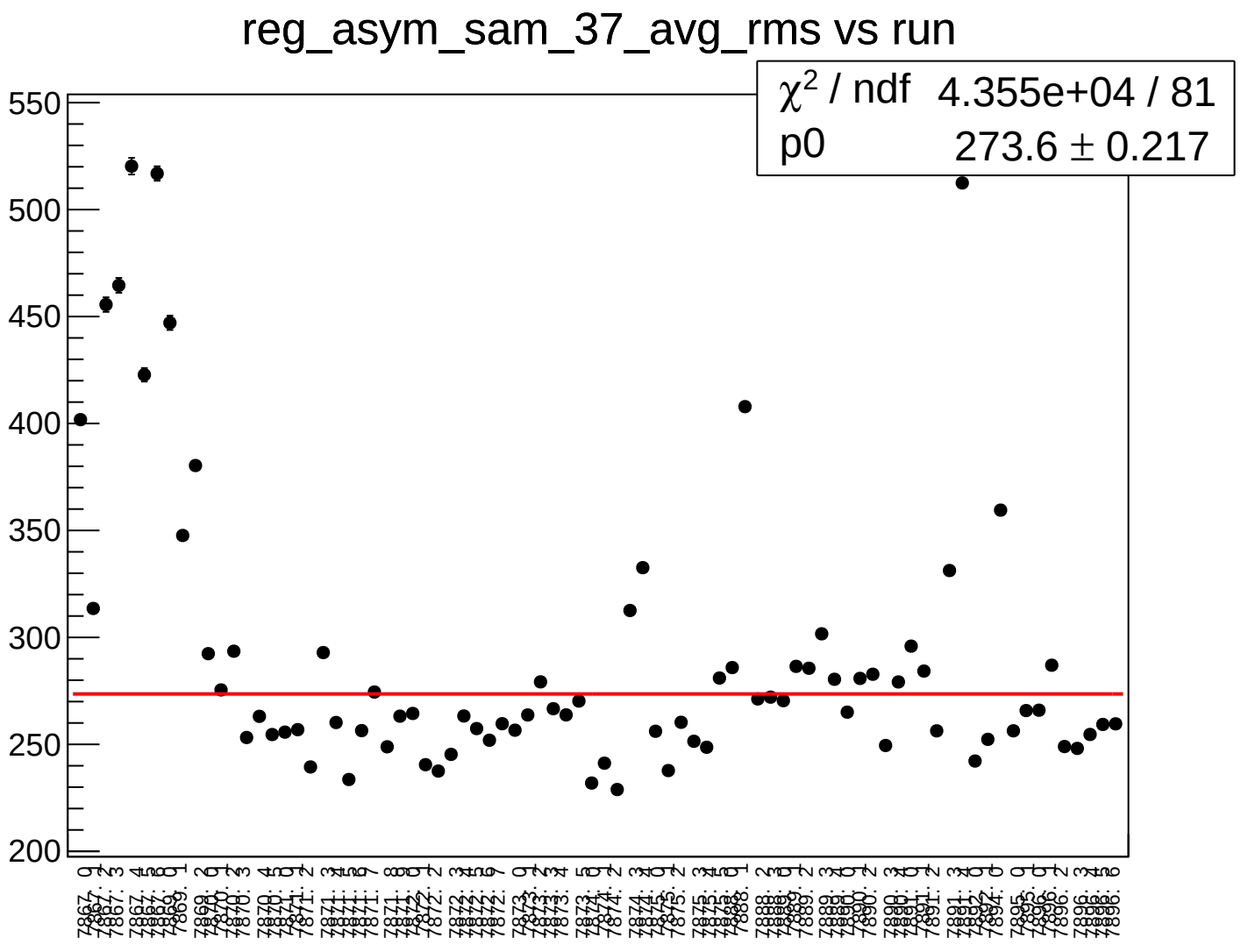

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.363e+04 / 81
p0 92.5 ± 0.07457
300
250
200
150
100
50

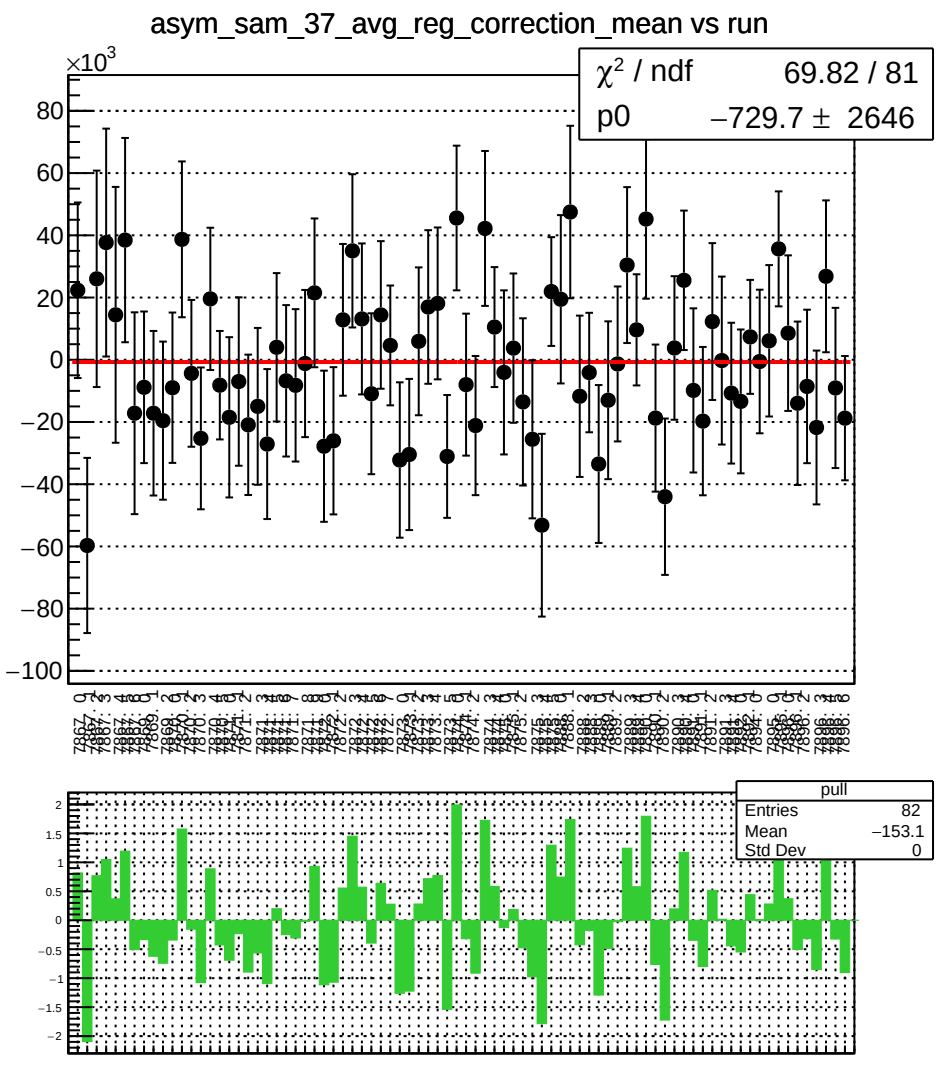

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.32 / 81
p0 2.018e−13 ± 1.951e−13
pull
Entries 82
Mean 19.56
Std Dev 28.52

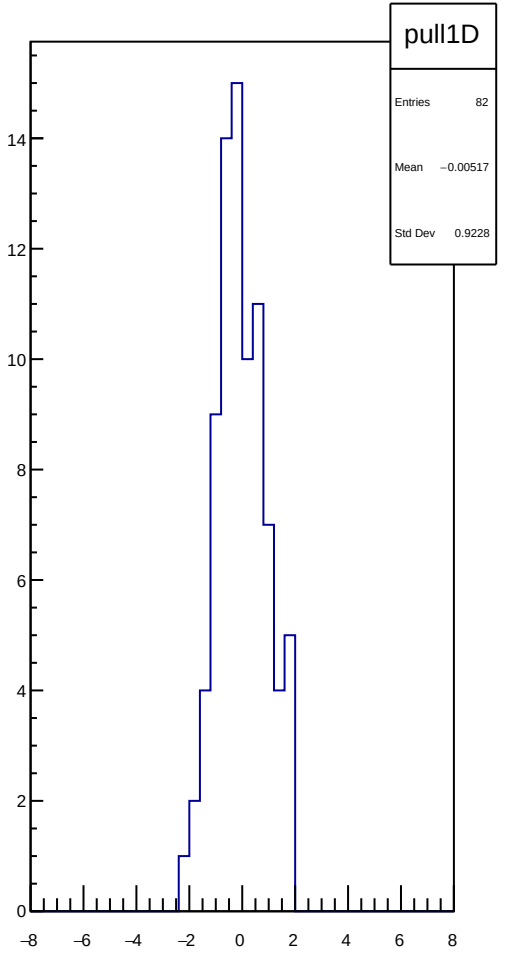

pull1D
Entries 82
Mean −0.08895
Std Dev 0.9151

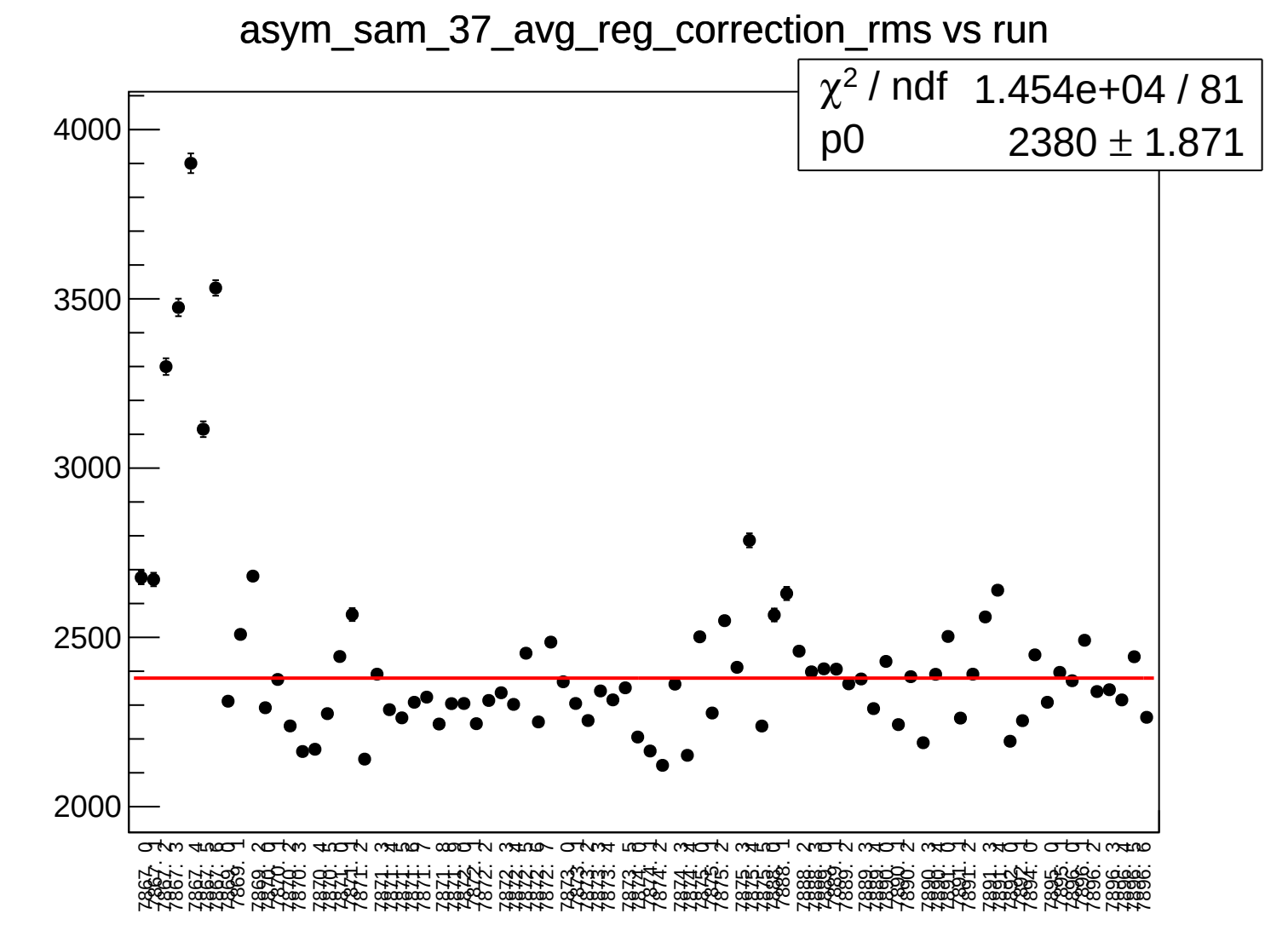

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.612e+05 / 81
p0 1.211e−10 ± 1.379e−13
3.5
3
2.5
2
1.5
1
0.5

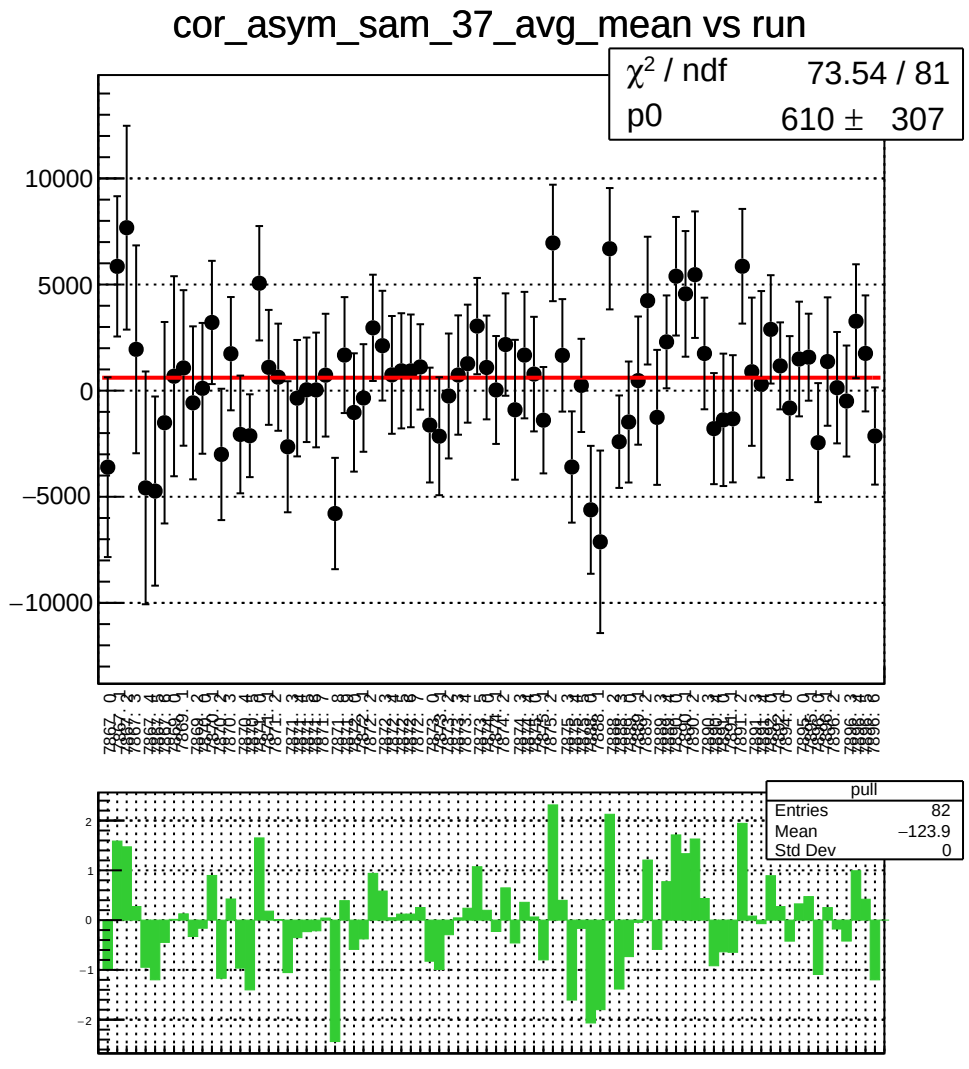

reg_asym_sam_37_avg_mean vs run
χ² / ndf 73.54 / 81
p0 609.9 ± 307
pull
Entries 82
Mean −123.9
Std Dev 0
pull1D
Entries 82
Mean −0.01345
Std Dev 0.9469

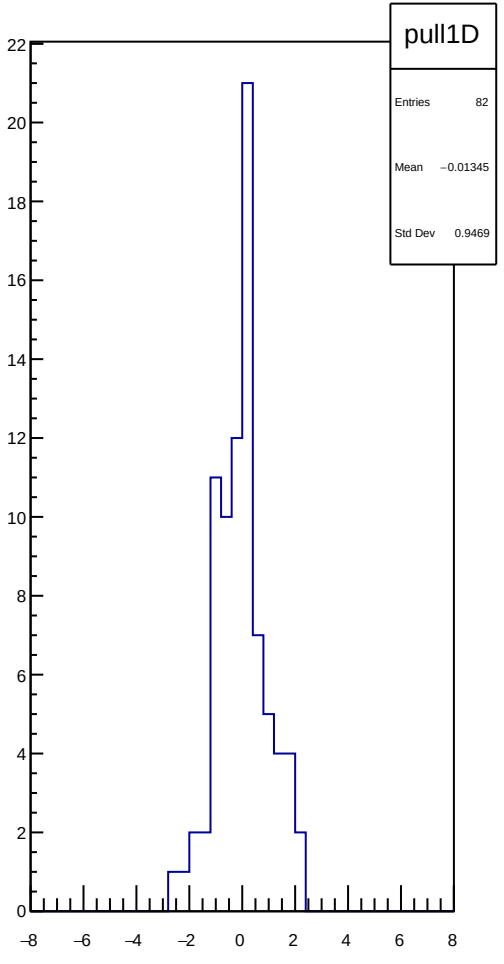

reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.355e+04 / 81
p0 273.6 ± 0.217
550
500
450
400
350
300
250
200

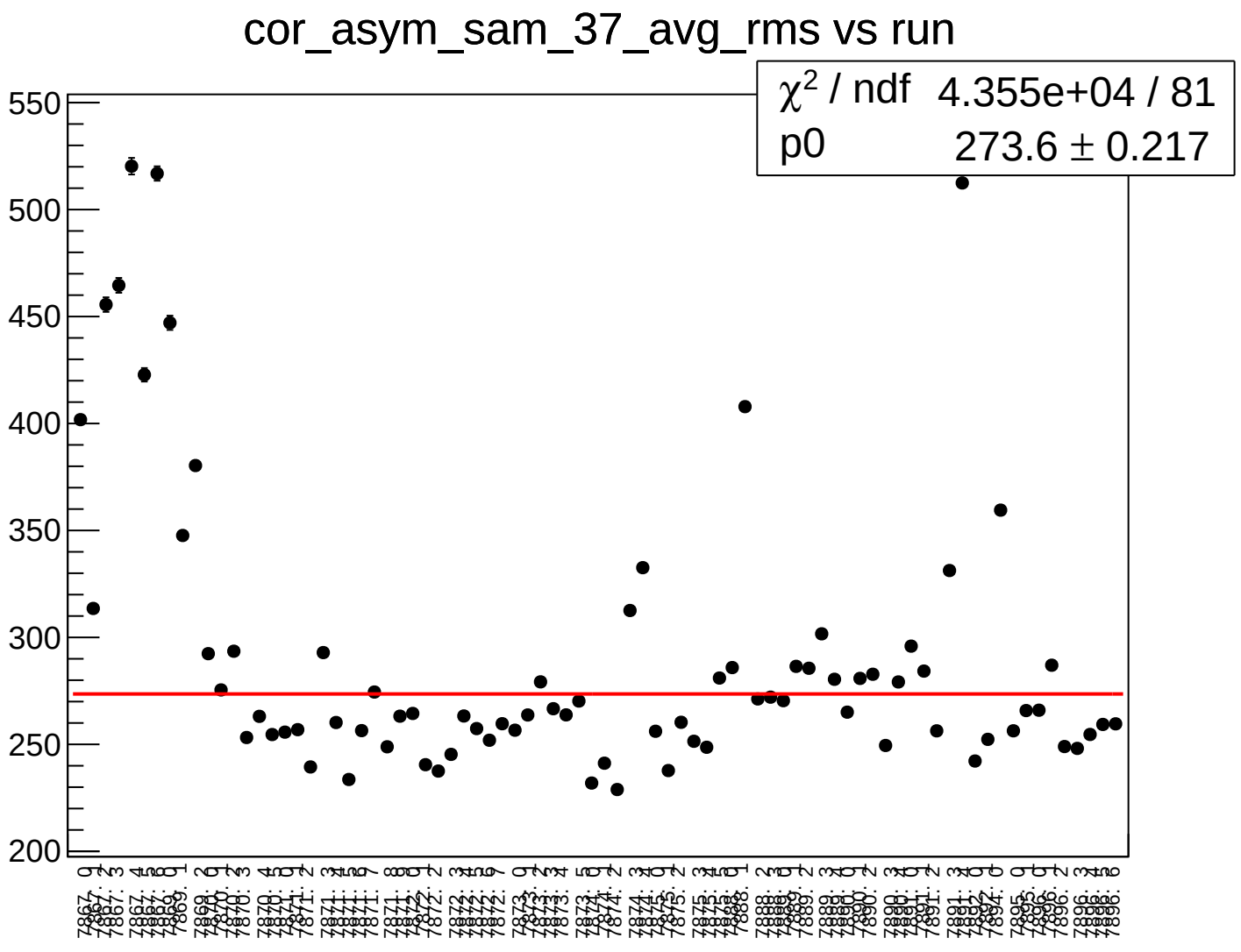

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.82 / 81
p0 −729.7 ± 2646
pull
Entries 82
Mean −153.1
Std Dev 0

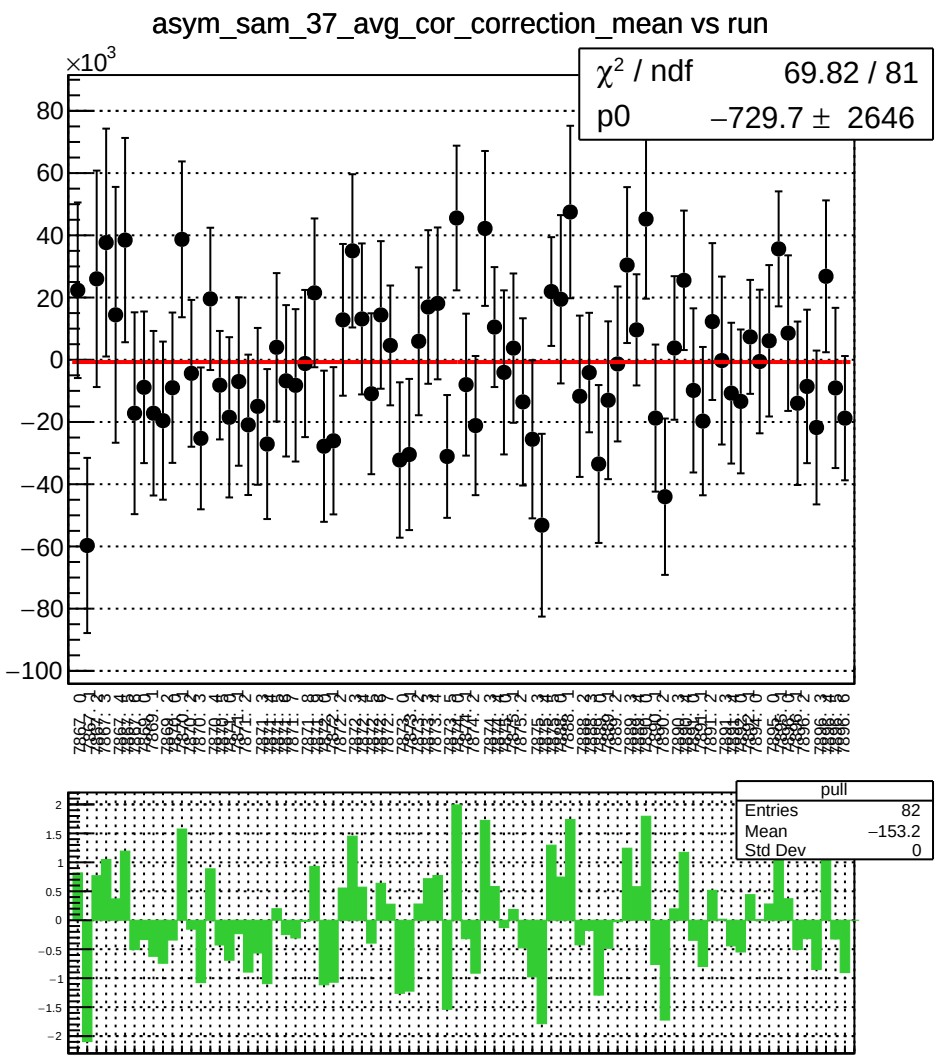

pull1D
Entries 82
Mean −0.00517
Std Dev 0.9228

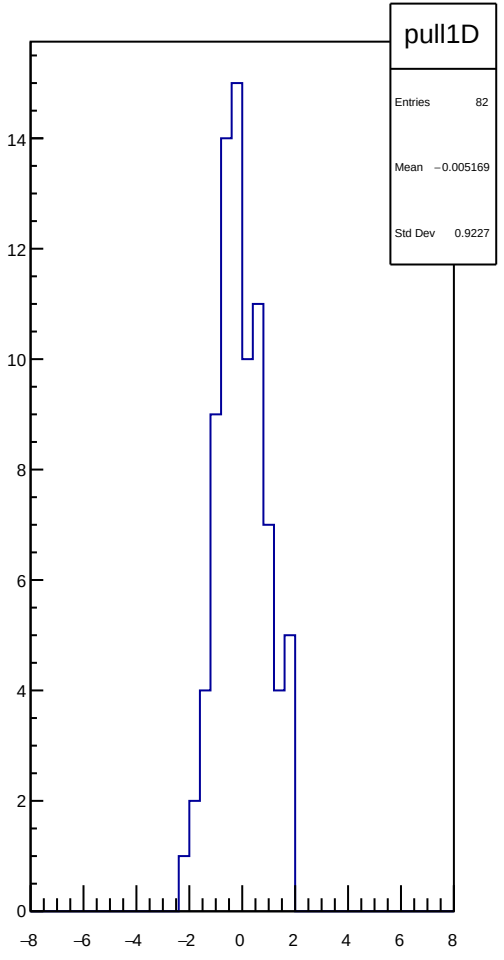

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.454e+04 / 81
p0 2380 ± 1.871
4000
3500
3000
2500
2000

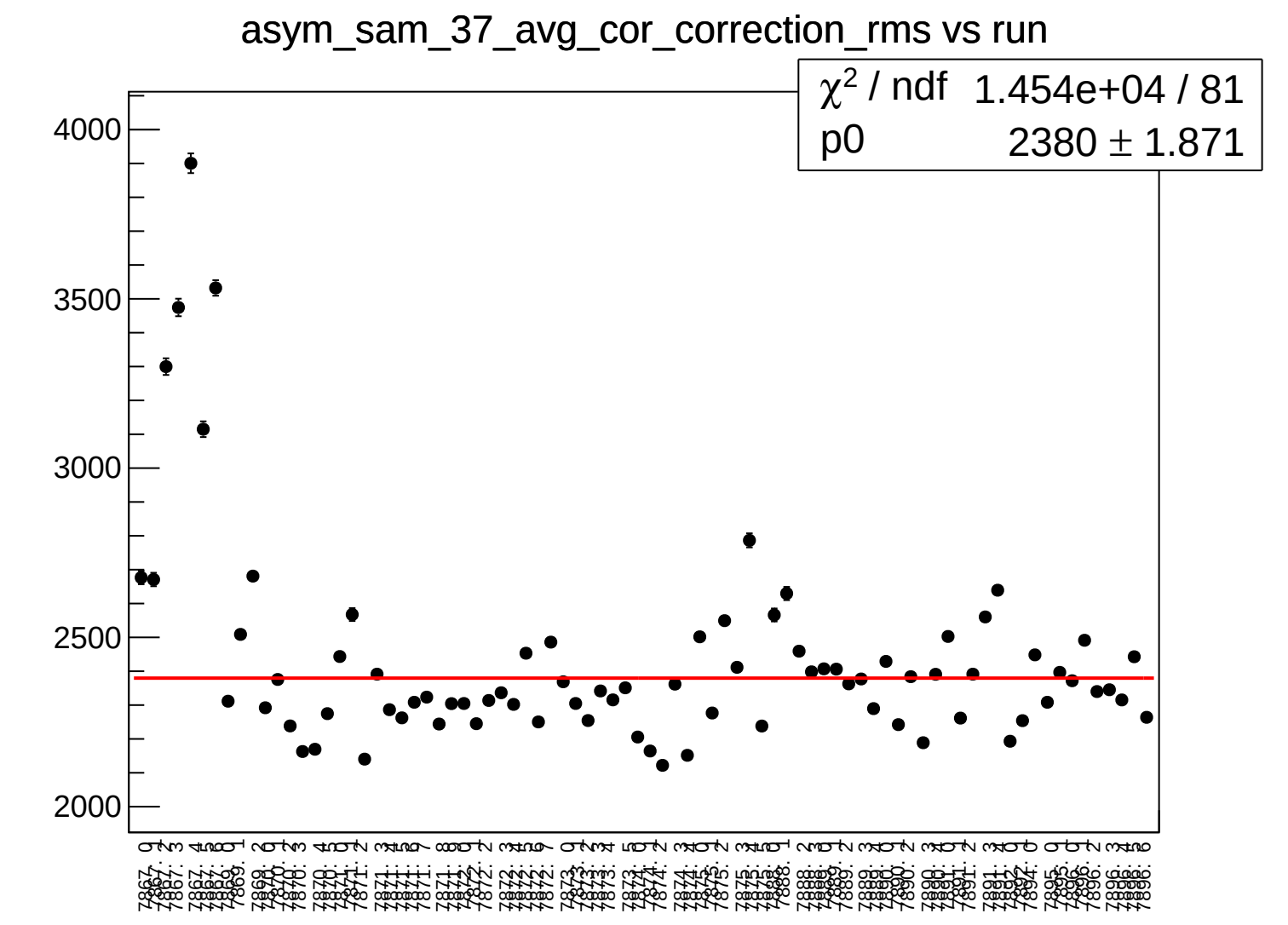

cor_asym_sam_37_avg_mean vs run
χ² / ndf 73.54 / 81
p0 610 ± 307
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −123.9
Std Dev 0
2
1
0
−1
−2

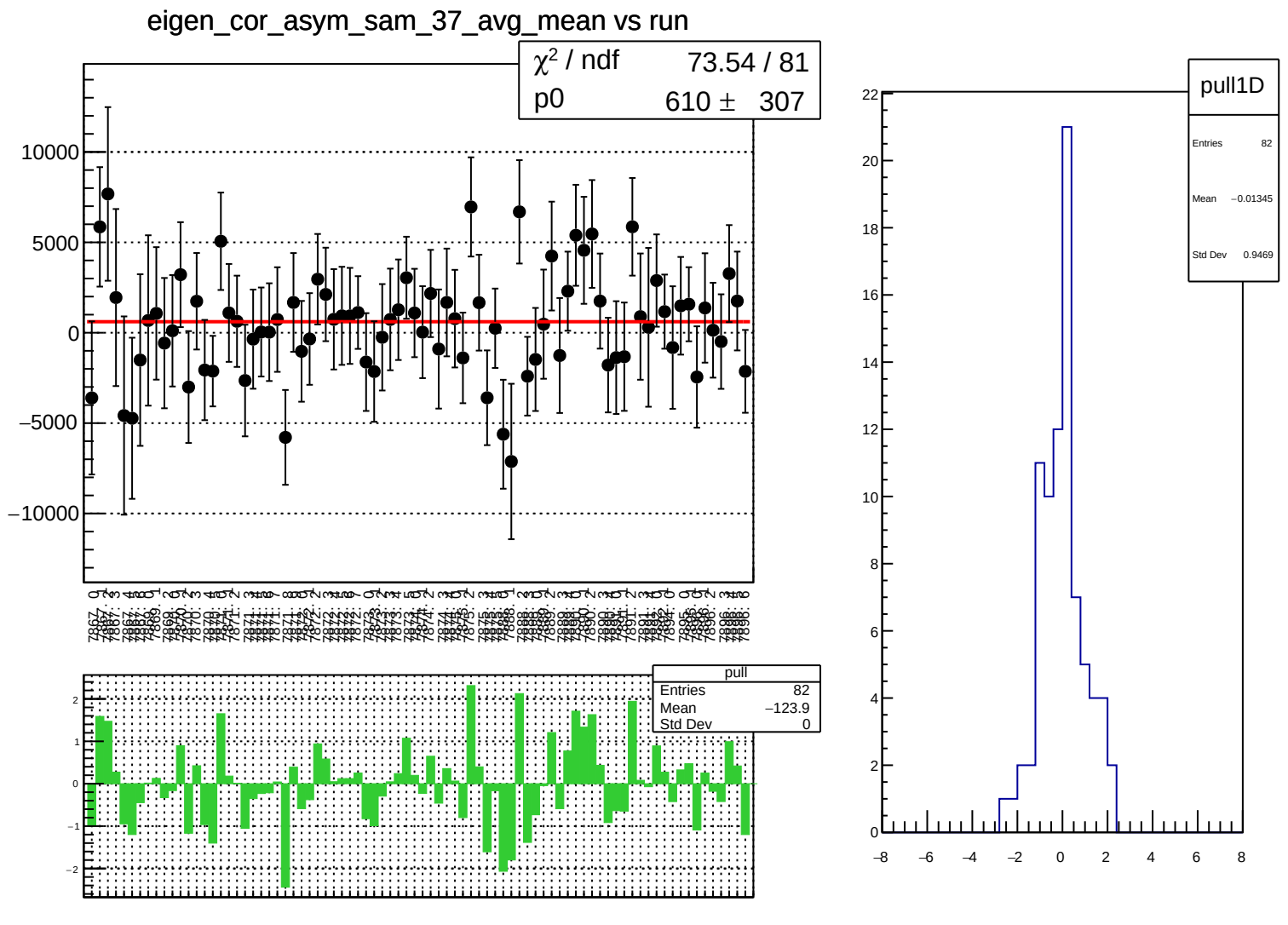

pull1D
Entries 82
Mean −0.01345
Std Dev 0.9469
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

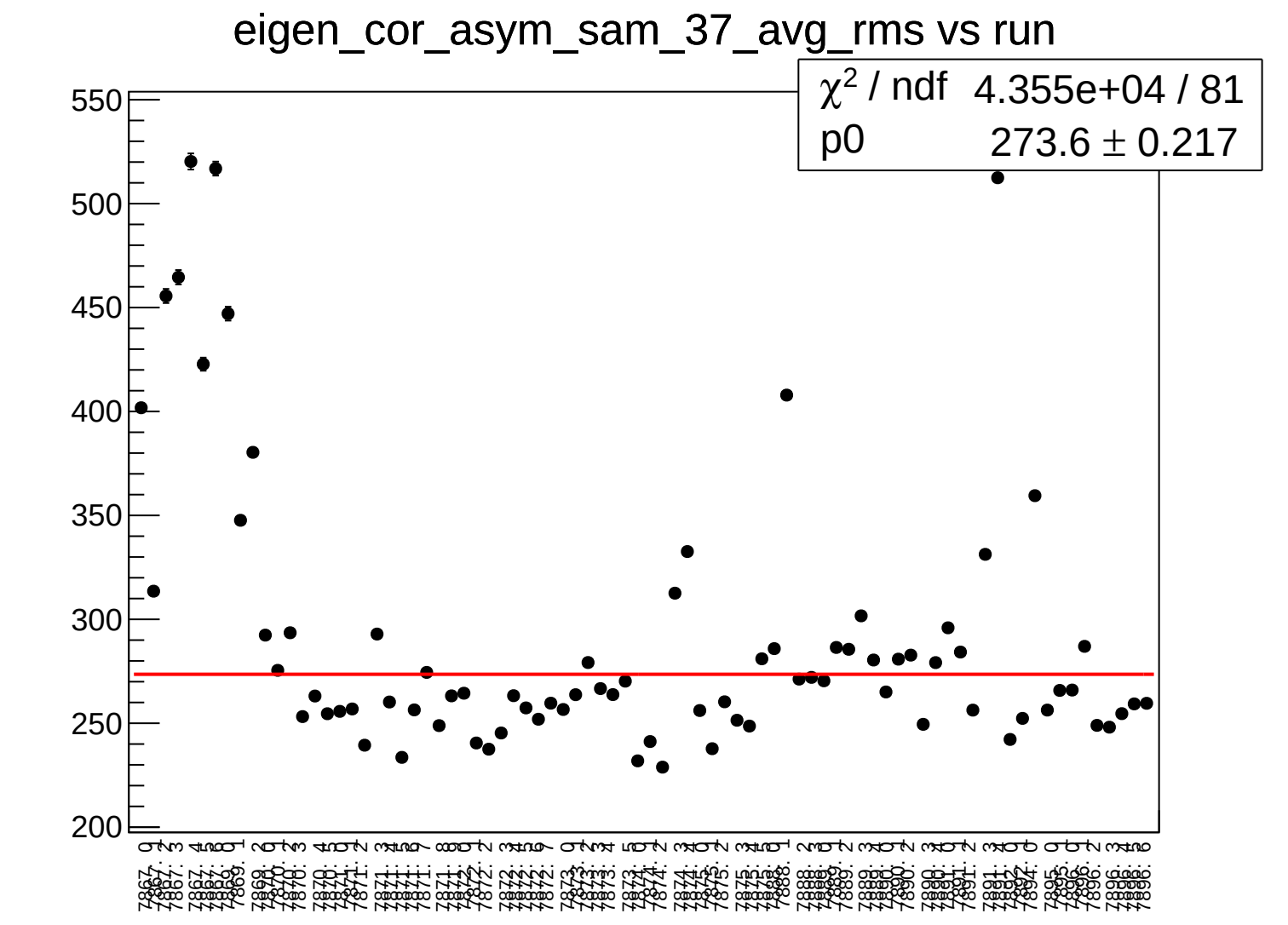

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.355e+04 / 81
p0 273.6 ± 0.217
550
500
450
400
350
300
250
200

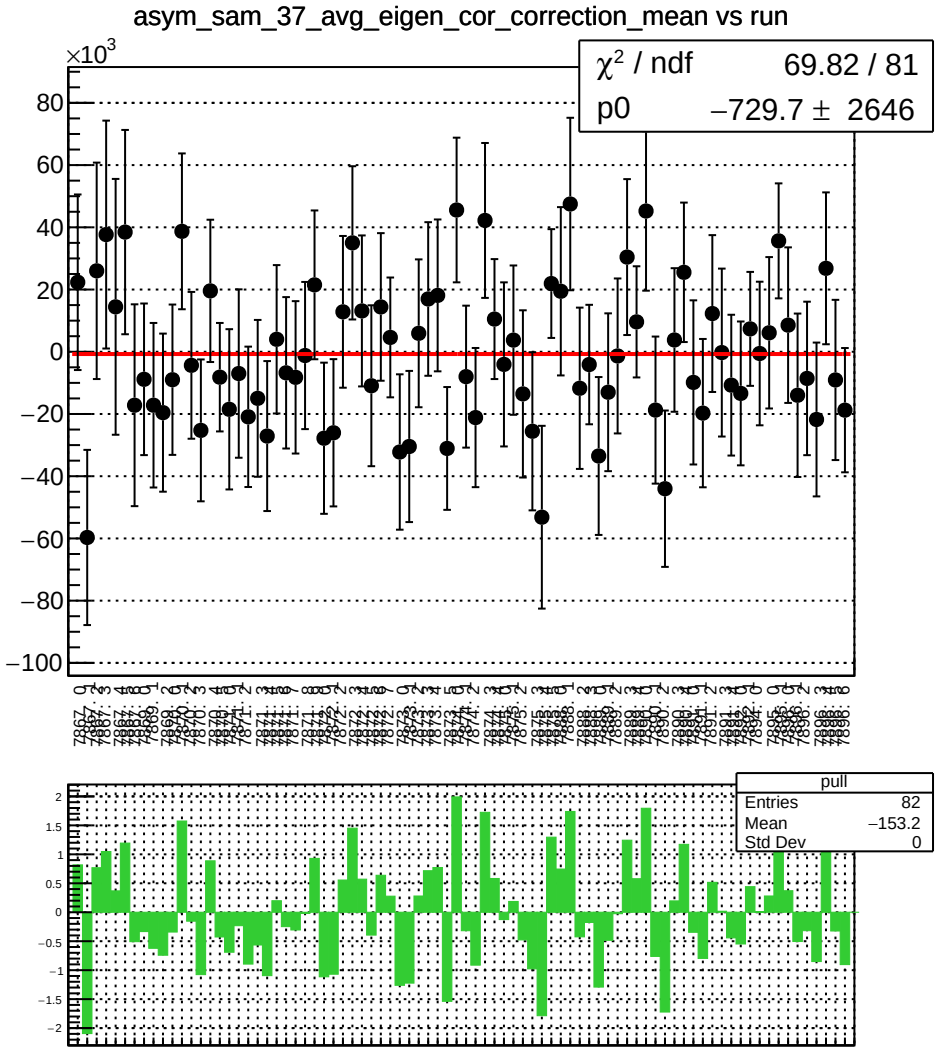

asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.82 / 81
p0 −729.7 ± 2646
pull
Entries 82
Mean −153.2
Std Dev 0

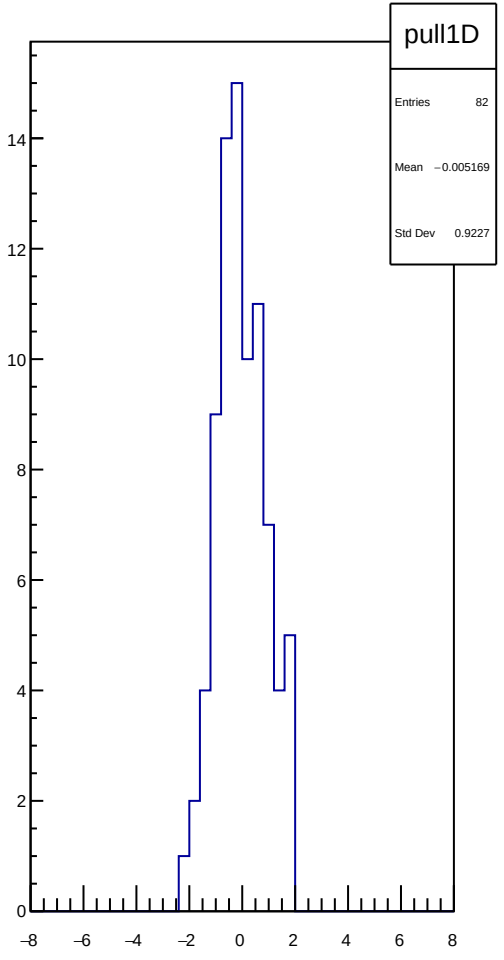

pull1D
Entries 82
Mean −0.005169
Std Dev 0.9227

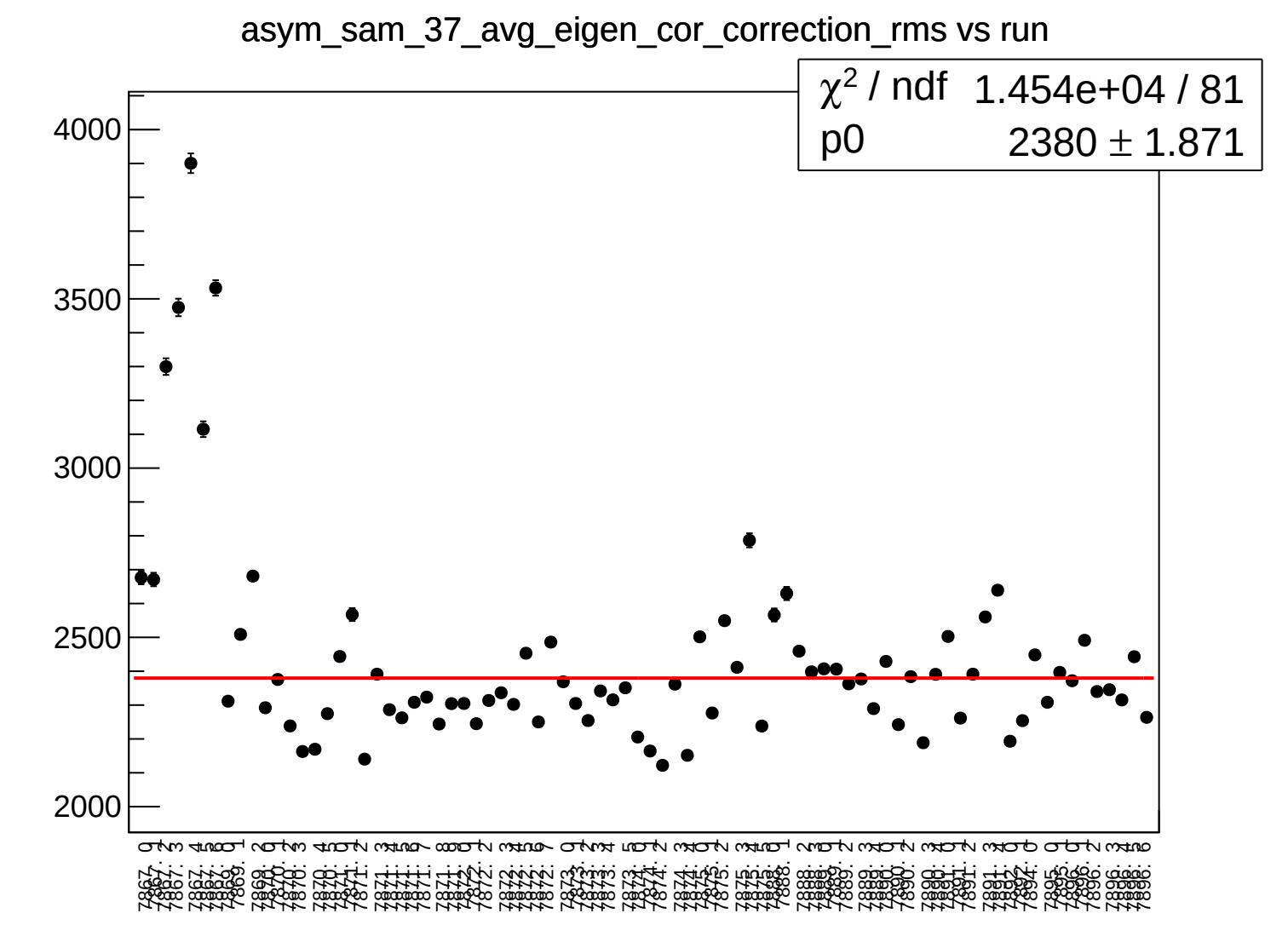

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 1.454e+04 / 81
p0 2380 ± 1.871
4000
3500
3000
2500
2000

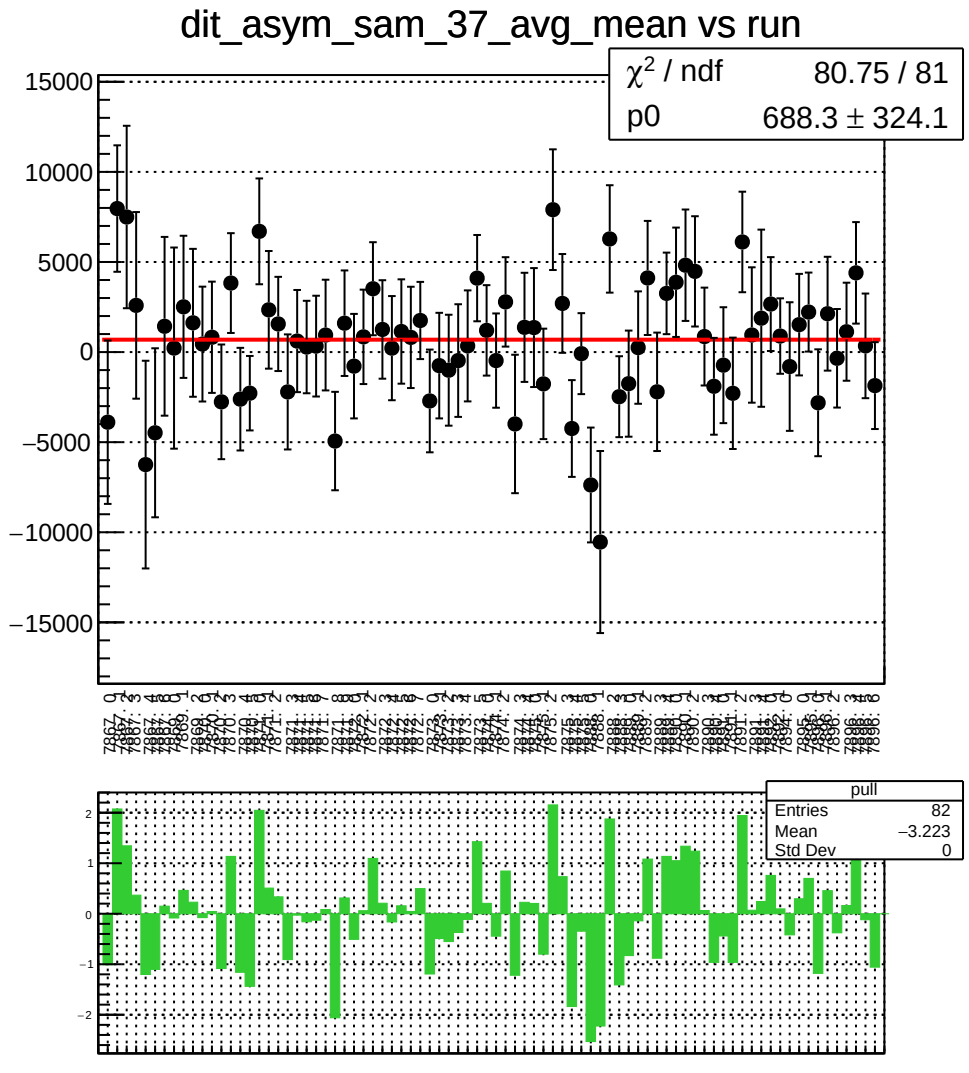

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 73.54 / 81
p0 610 ± 307
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −123.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01345
Std Dev 0.9469
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

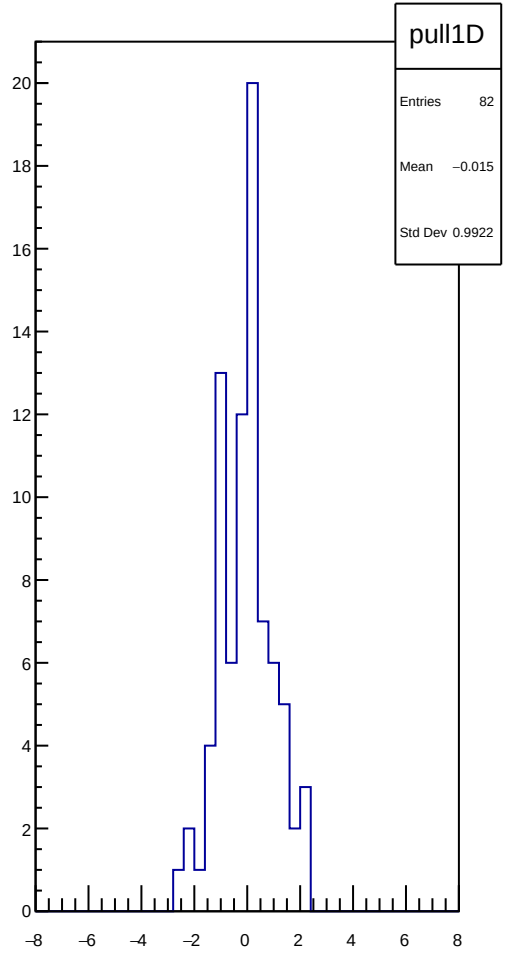

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.355e+04 / 81
p0 273.6 ± 0.217
550
500
450
400
350
300
250
200

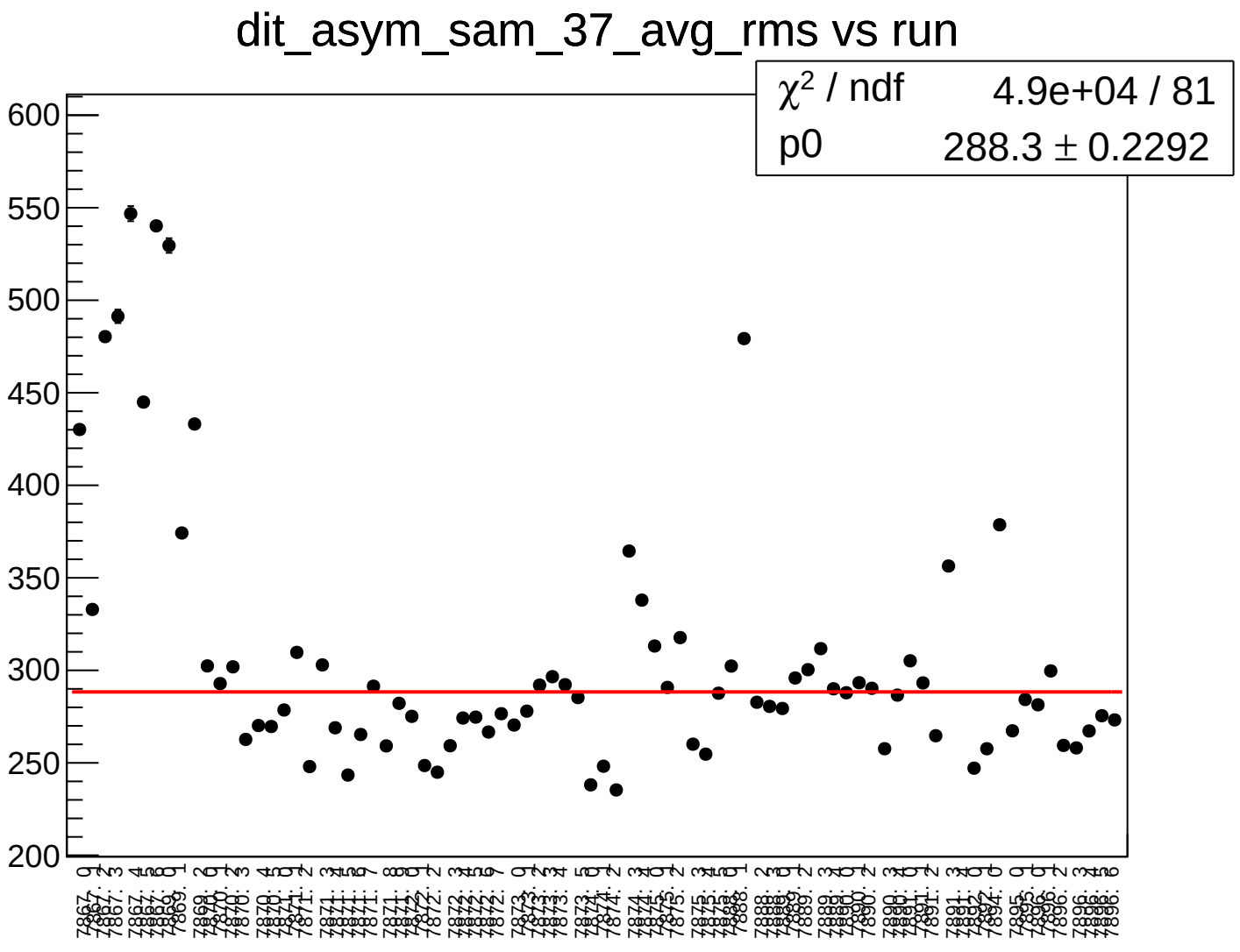

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.82 / 81
p0 −729.7 ± 2646
pull
Entries 82
Mean −153.2
Std Dev 0

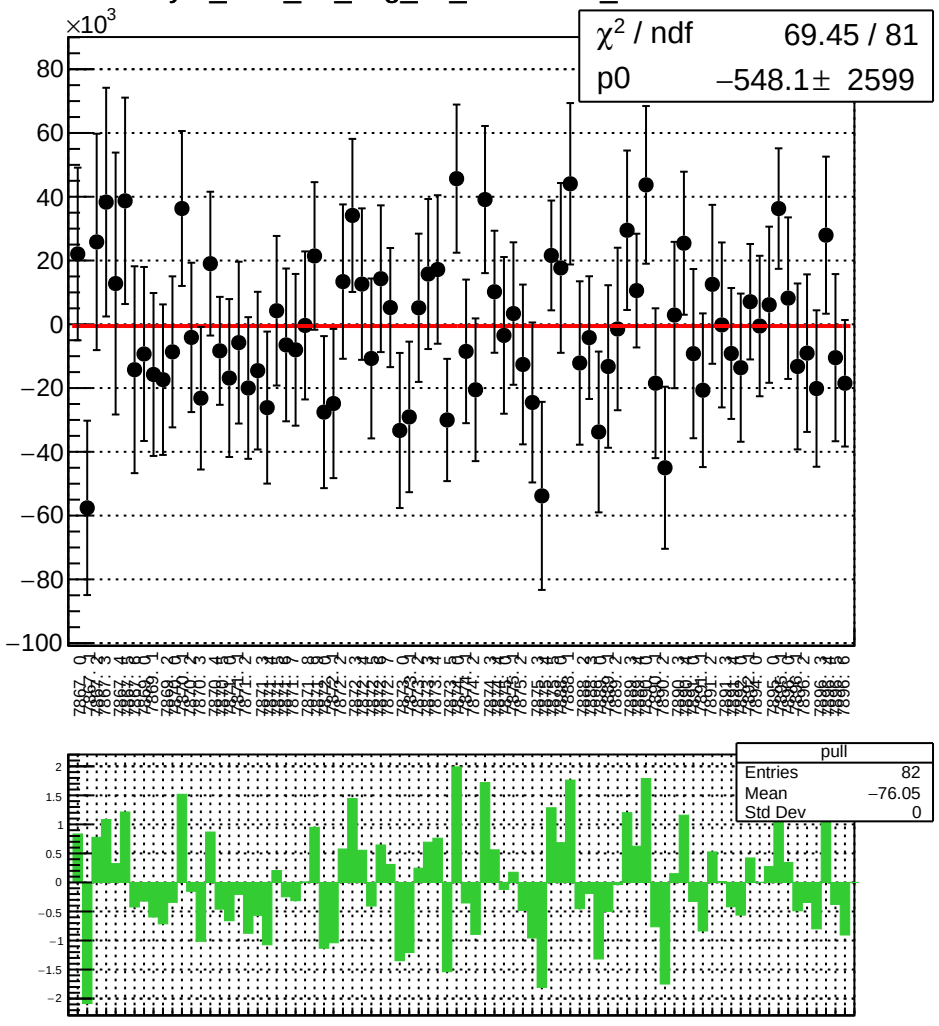

pull1D
Entries 82
Mean −0.005169
Std Dev 0.9227

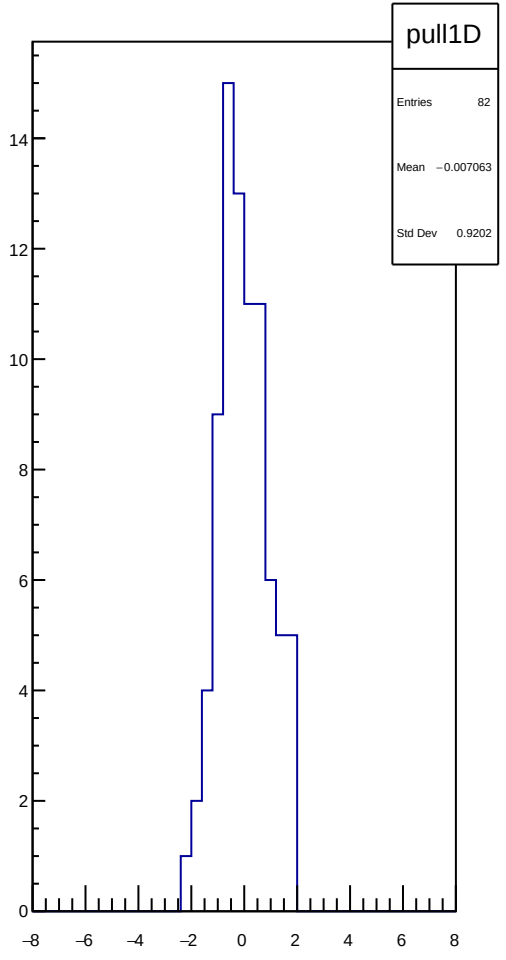

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.454e+04 / 81
p0 2380 ± 1.871
4000
3500
3000
2500
2000

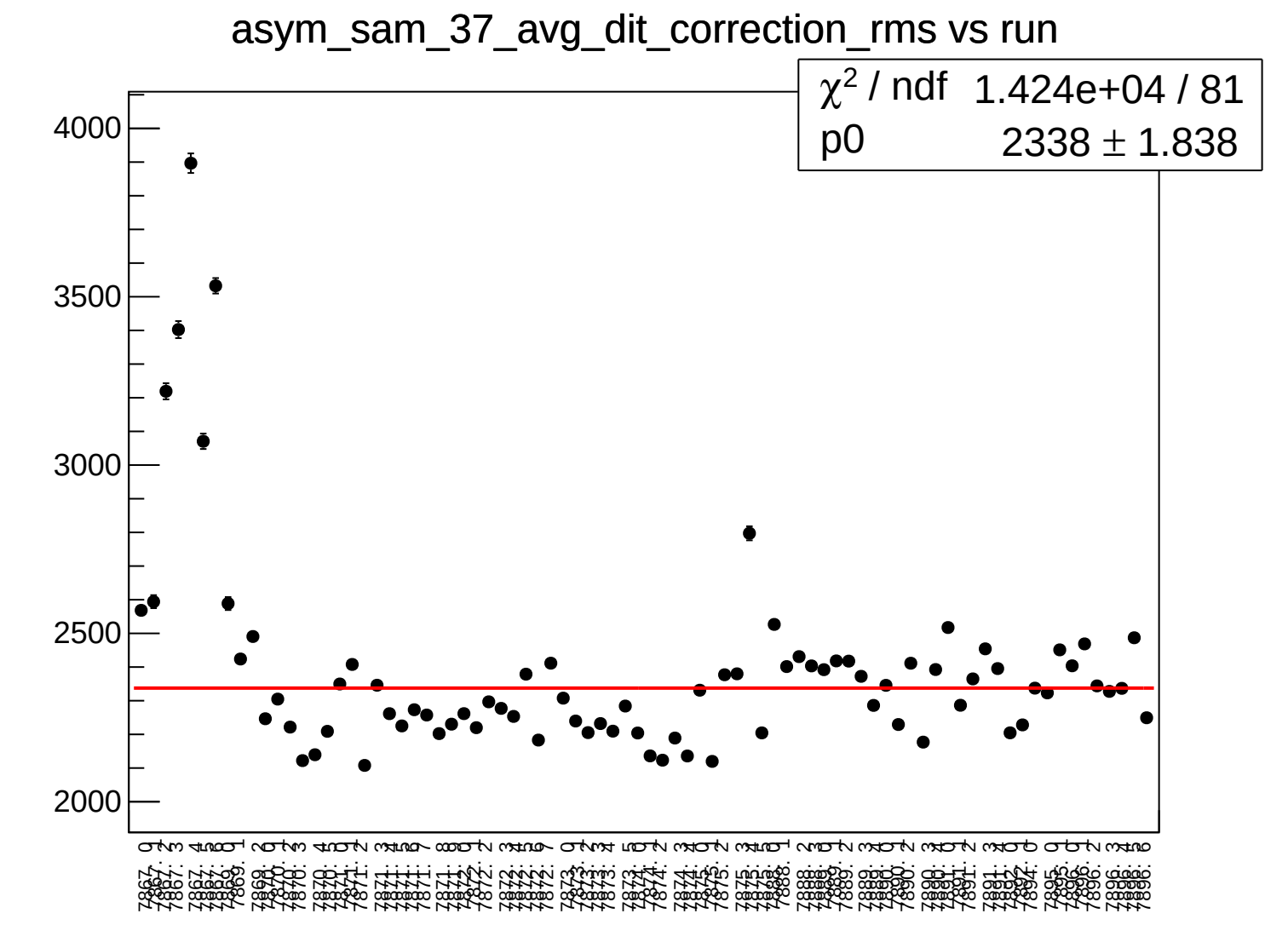

dit_asym_sam_37_avg_mean vs run
χ² / ndf 80.75 / 81
p0 688.3 ± 324.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −3.223
Std Dev 0

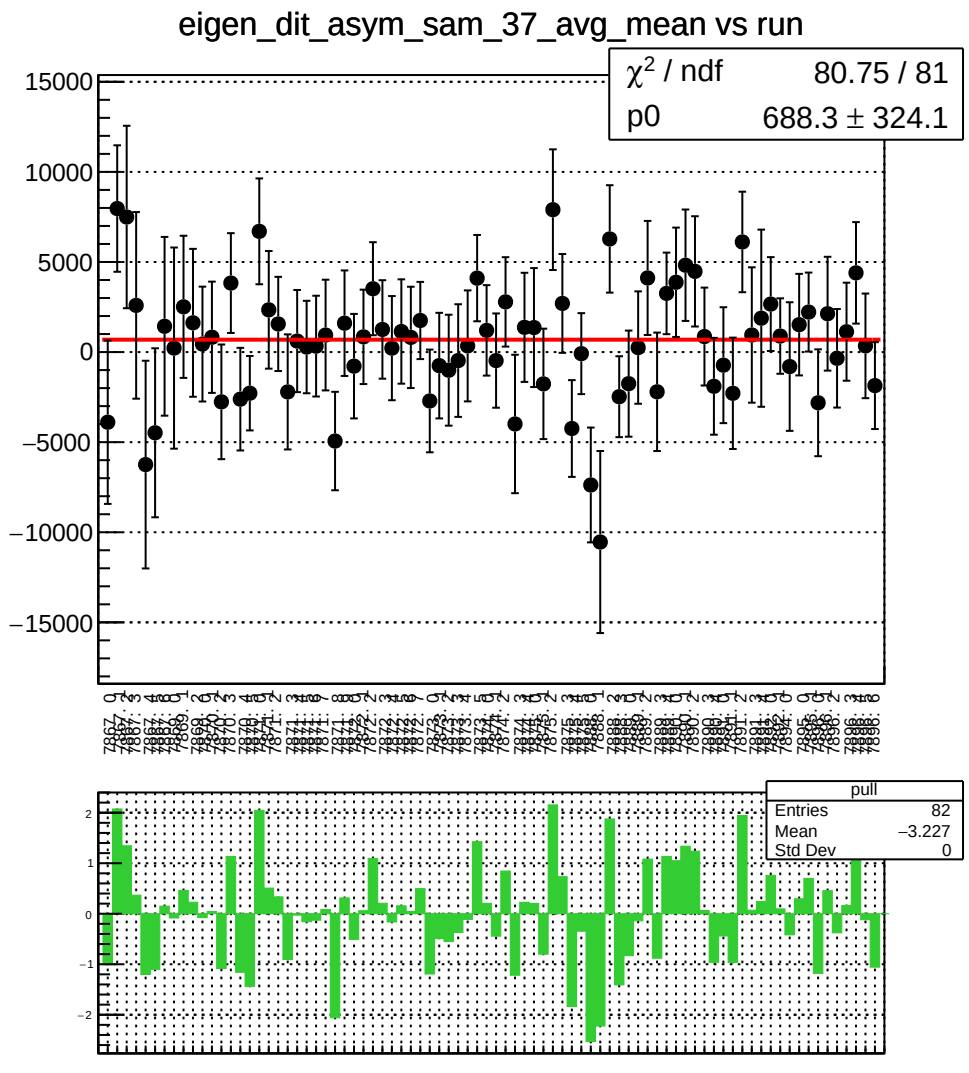

pull1D
Entries 82
Mean −0.015
Std Dev 0.9922
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

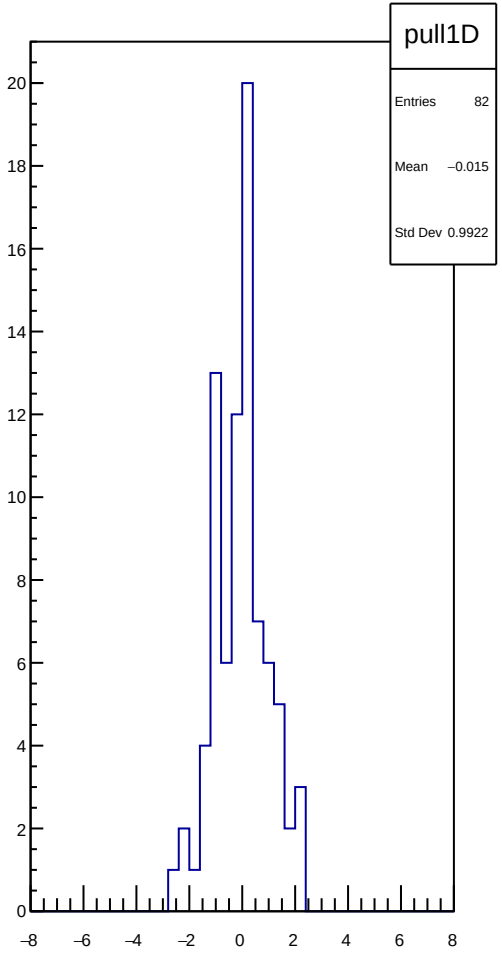

dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.9e+04 / 81
p0 288.3 ± 0.2292
600
550
500
450
400
350
300
250
200

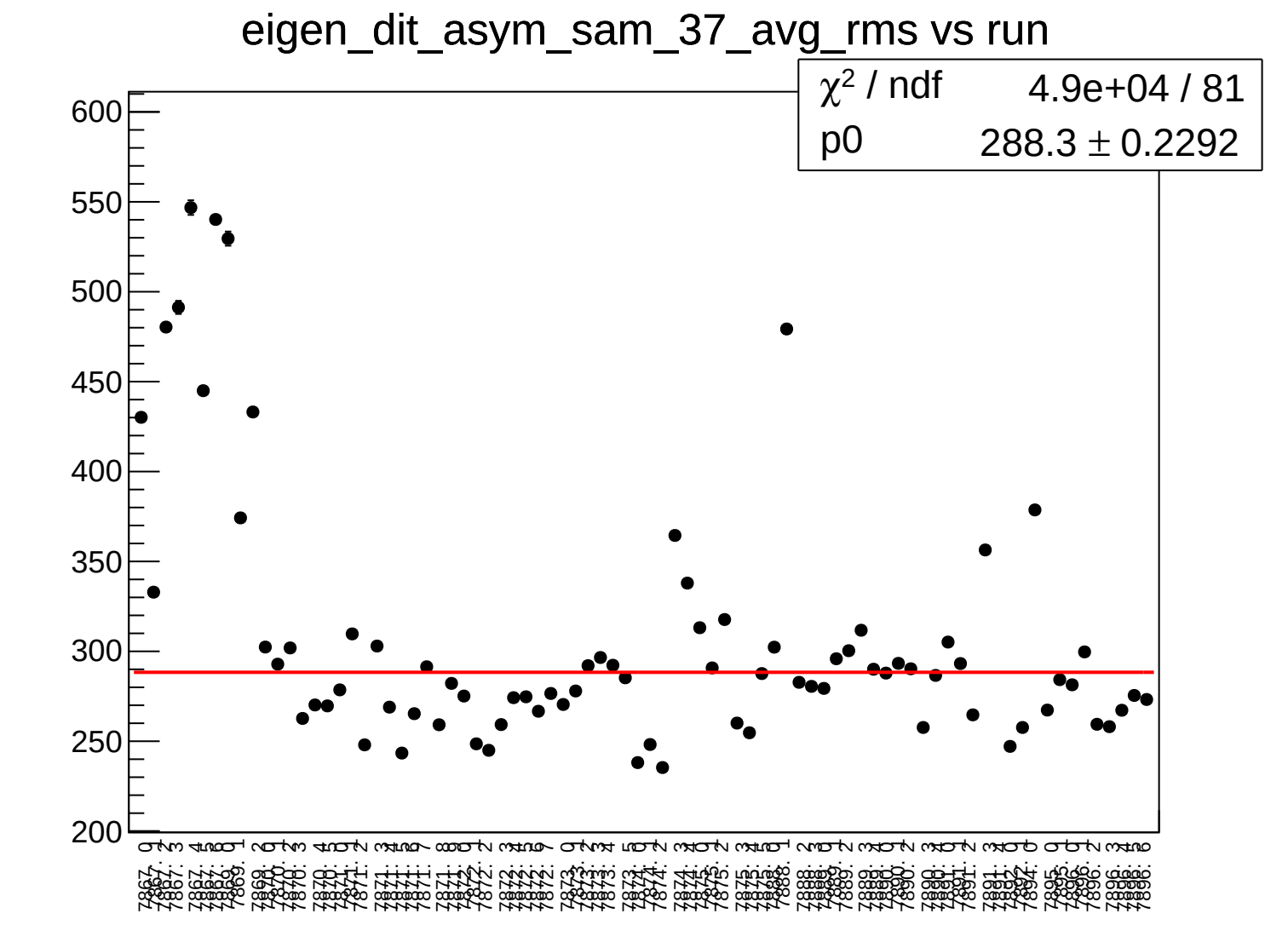

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.45 / 81
p0 −548.1± 2599
pull
Entries 82
Mean −76.05
Std Dev 0

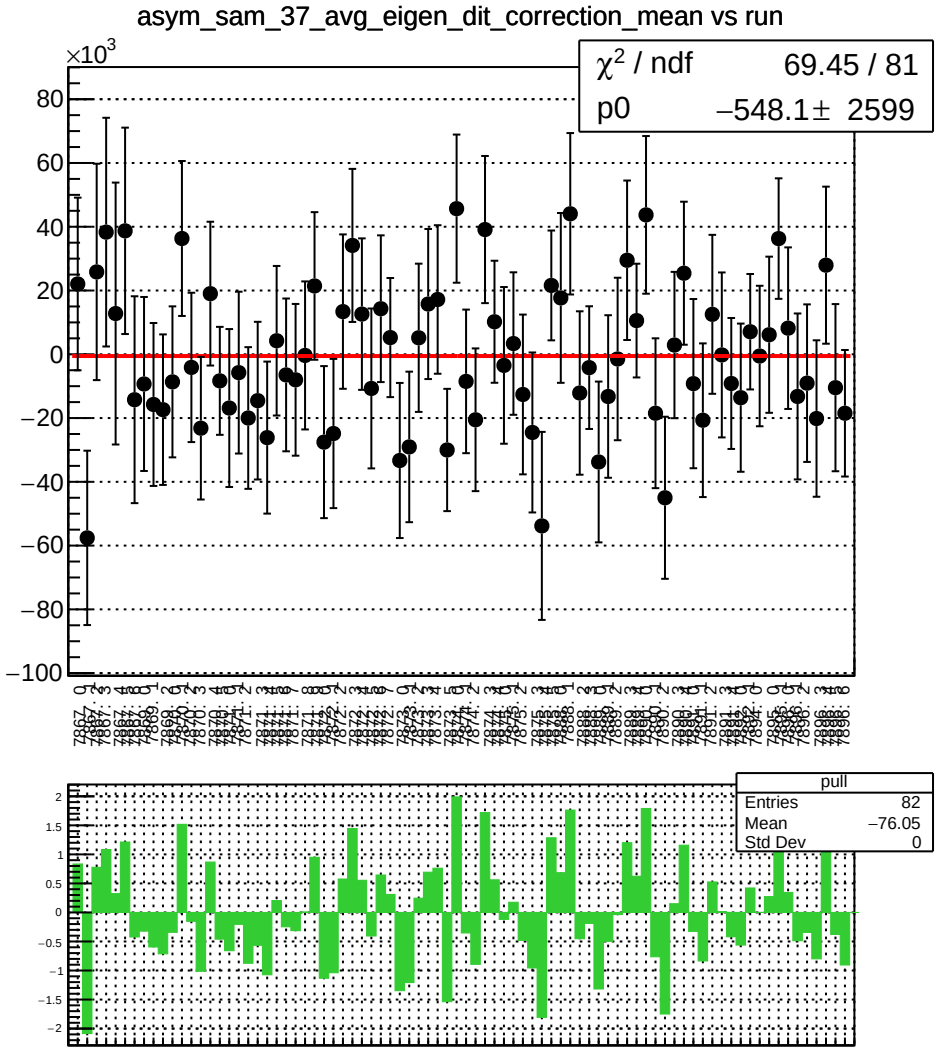

pull1D
Entries 82
Mean −0.007063
Std Dev 0.9202

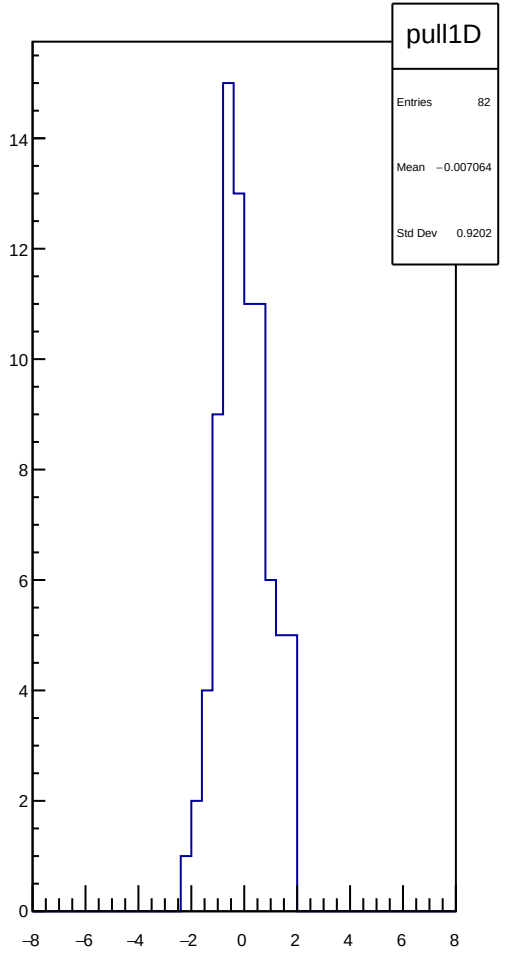

asym_sam_37_avg_dit_correction_rms vs run
χ^2 / ndf 1.424e+04 / 81
p0 2338 ± 1.838
4000
3500
3000
2500
2000

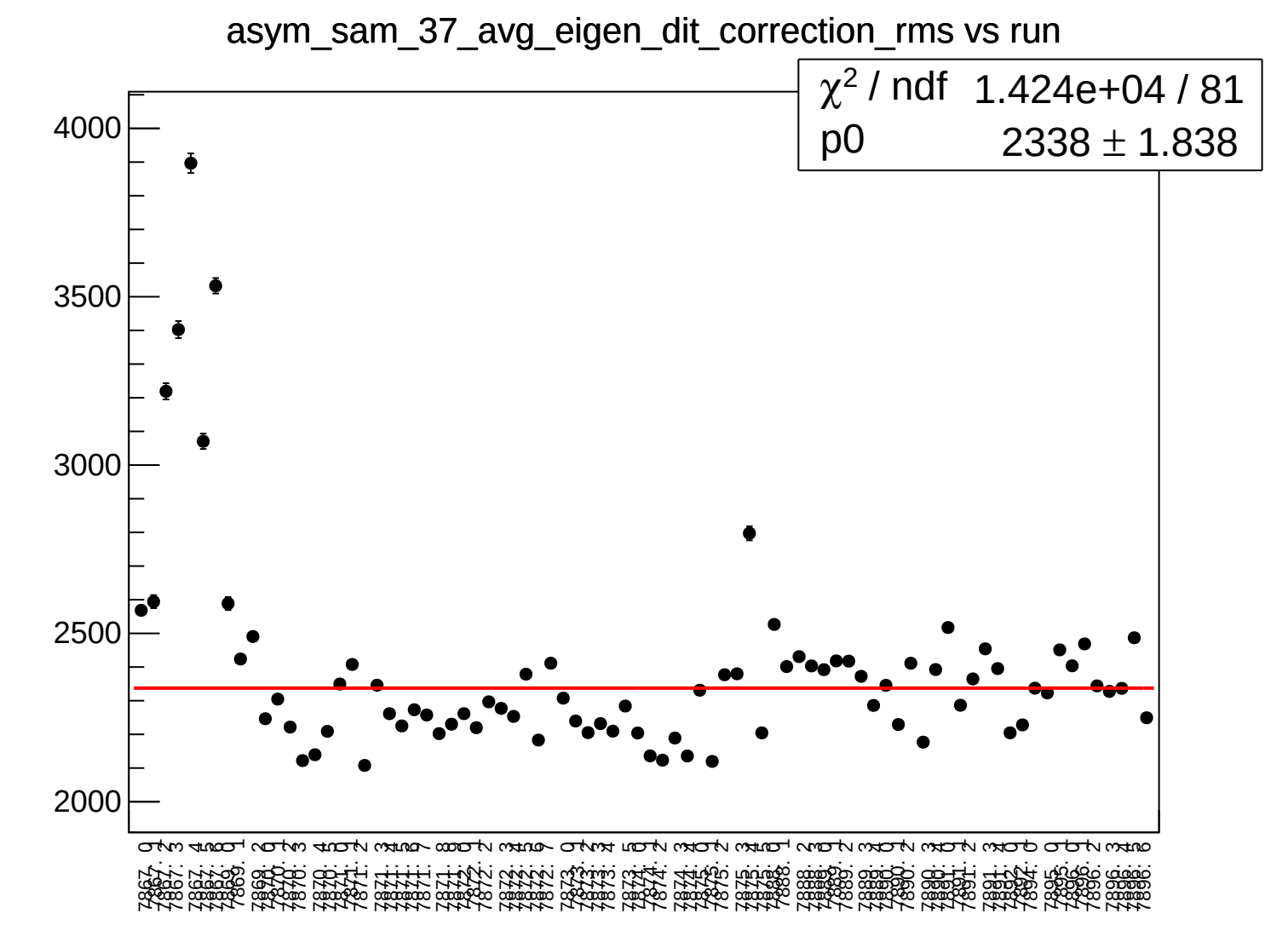

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 80.75 / 81
p0 688.3 ± 324.1
pull
Entries 82
Mean −3.227
Std Dev 0

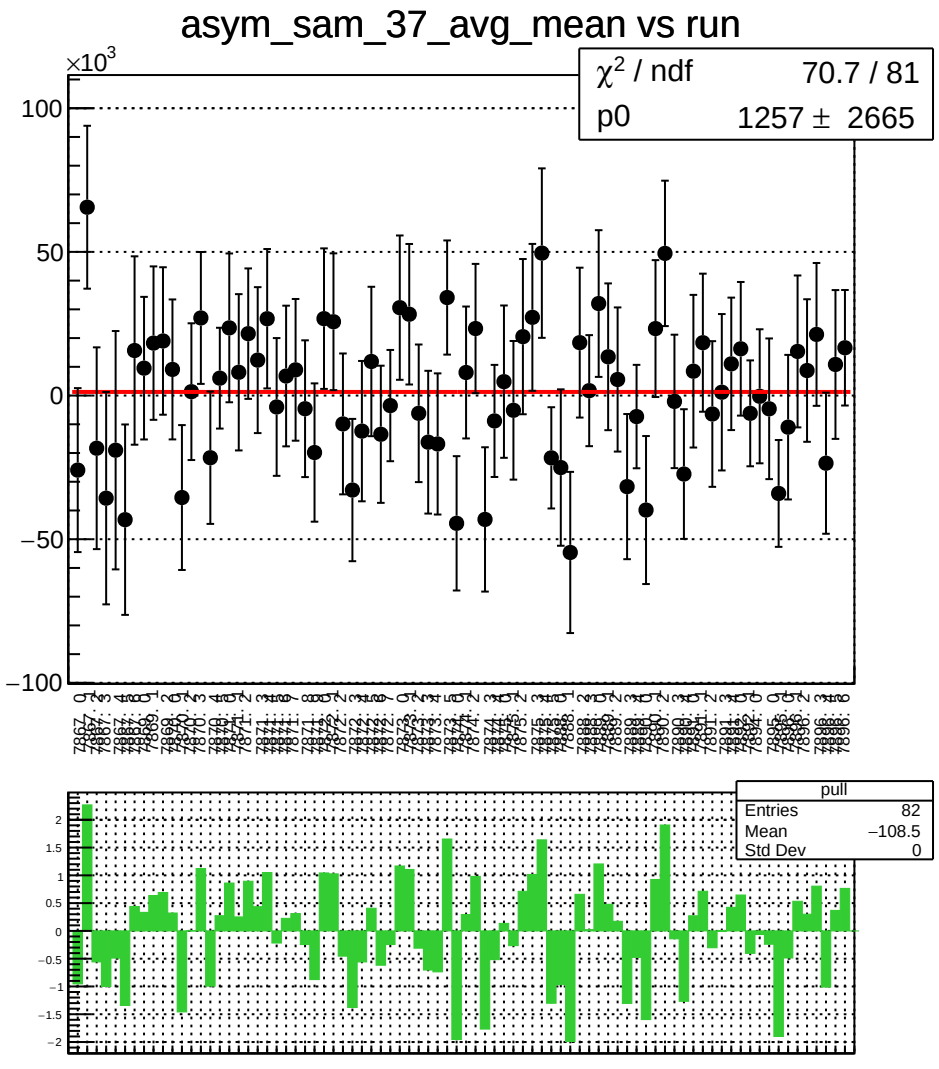

pull1D
Entries 82
Mean −0.015
Std Dev 0.9922

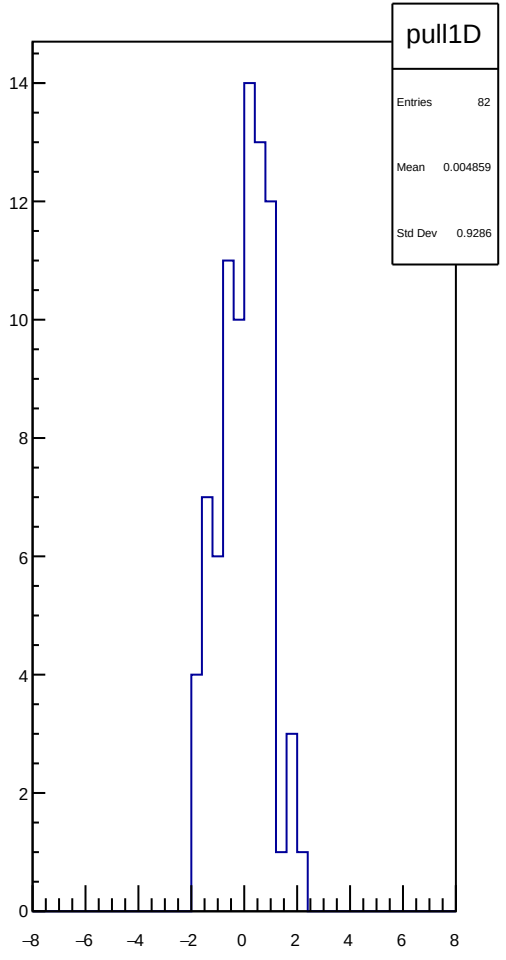

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.9e+04 / 81
p0 288.3 ± 0.2292
600
550
500
450
400
350
300
250
200

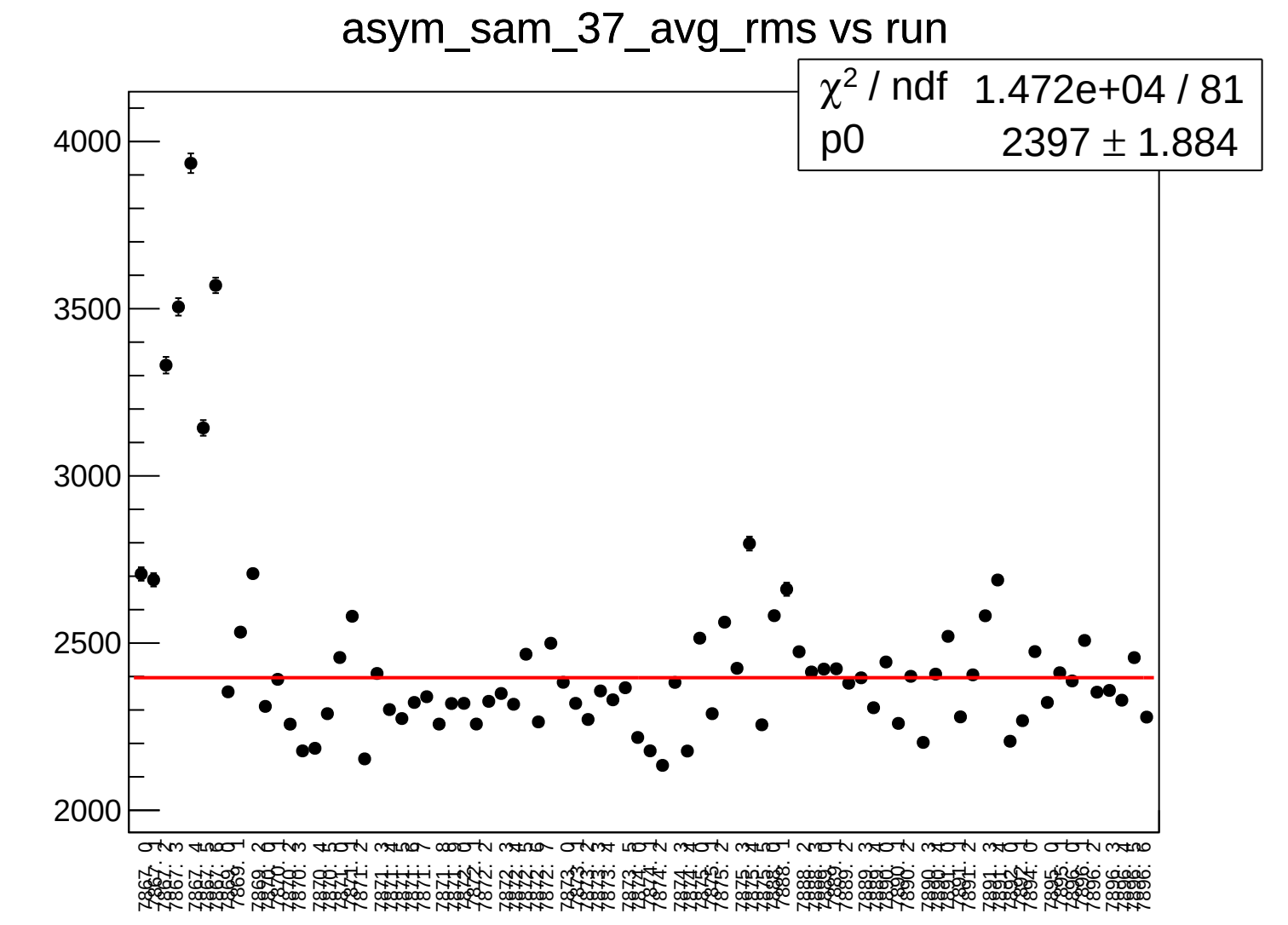

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.45 / 81
p0 −548.1± 2599
pull
Entries 82
Mean −76.05
Std Dev 0

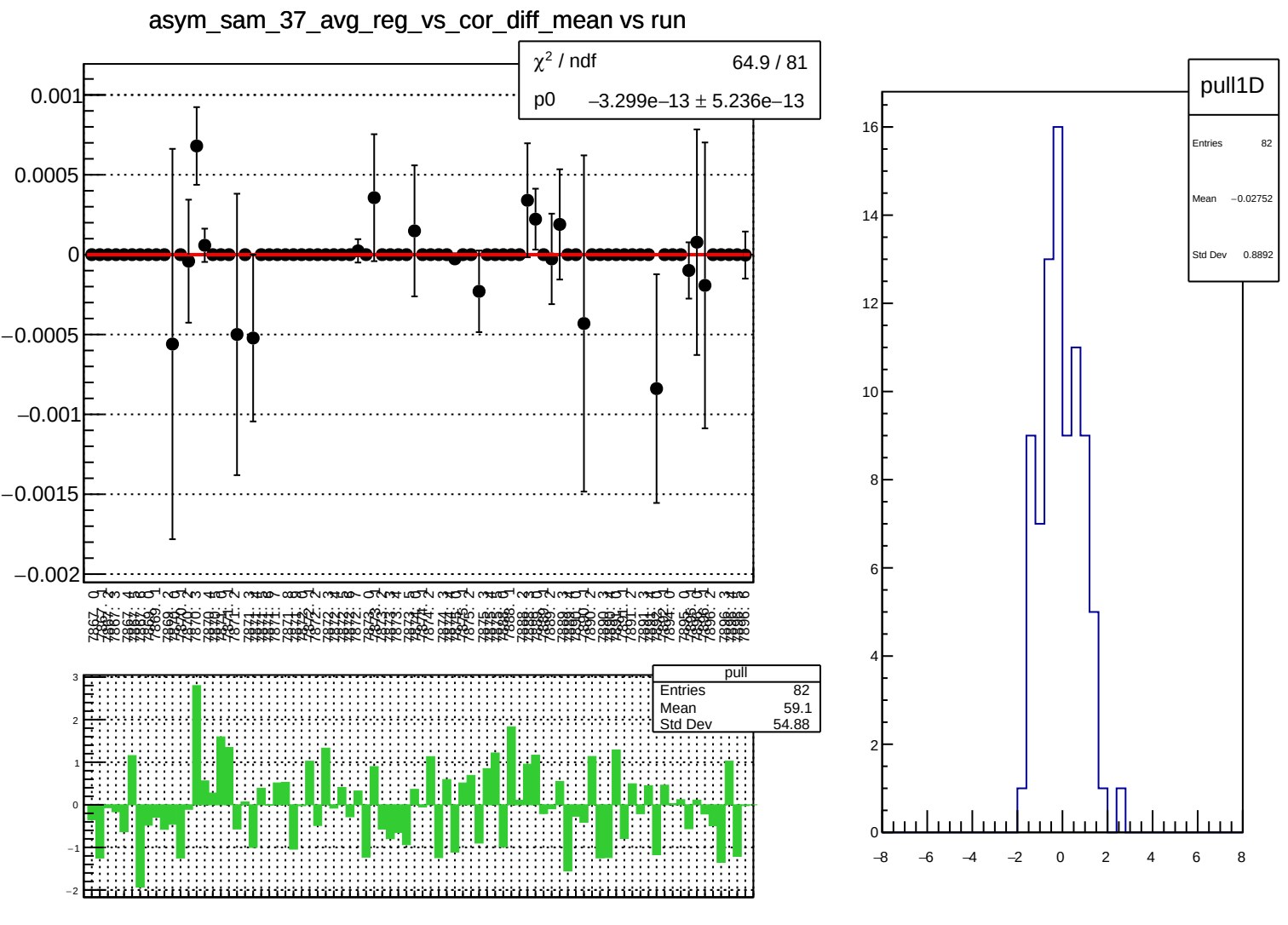

pull1D
Entries 82
Mean −0.007064
Std Dev 0.9202

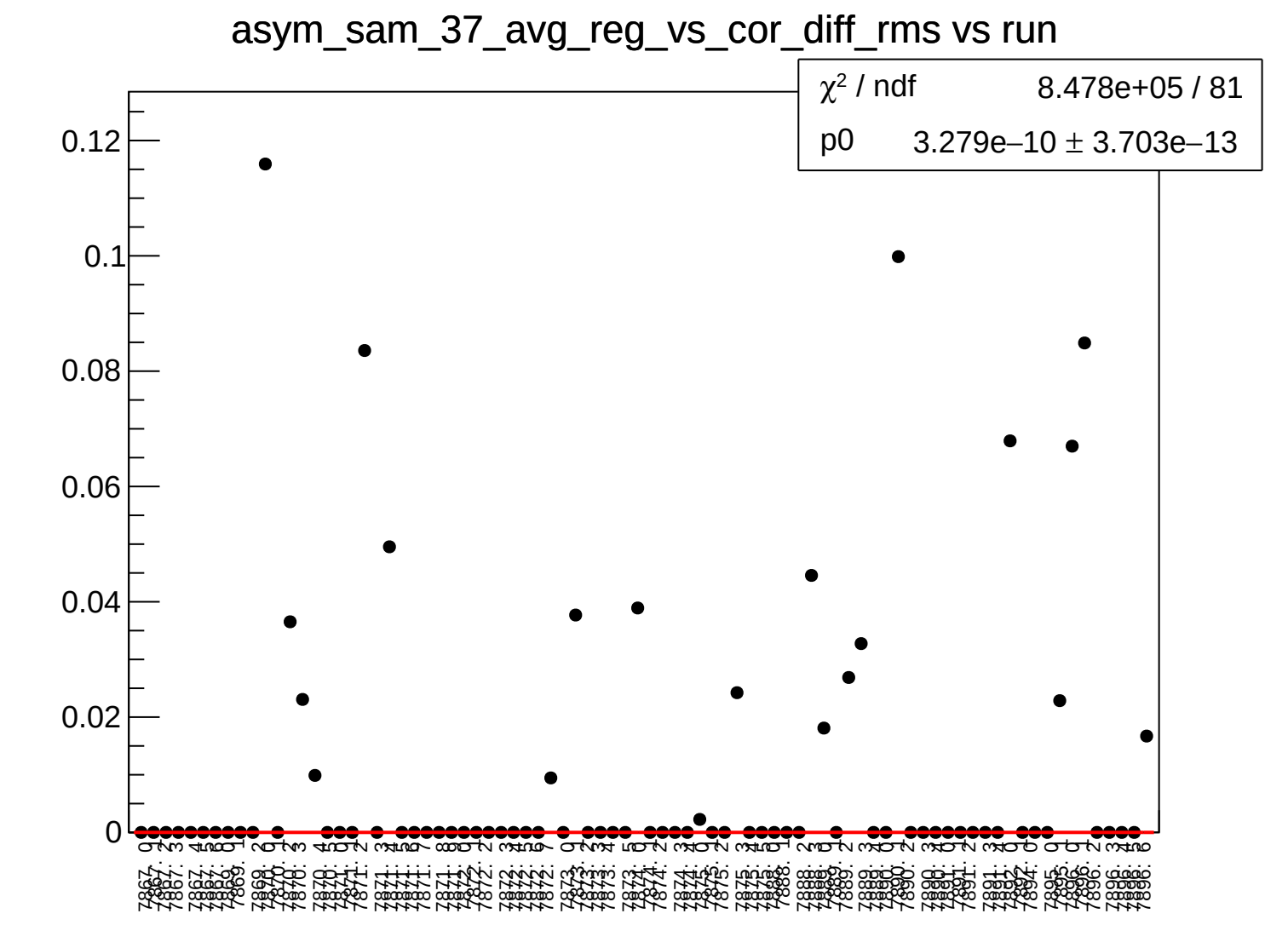

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.424e+04 / 81
p0 2338 ± 1.838
4000
3500
3000
2500
2000

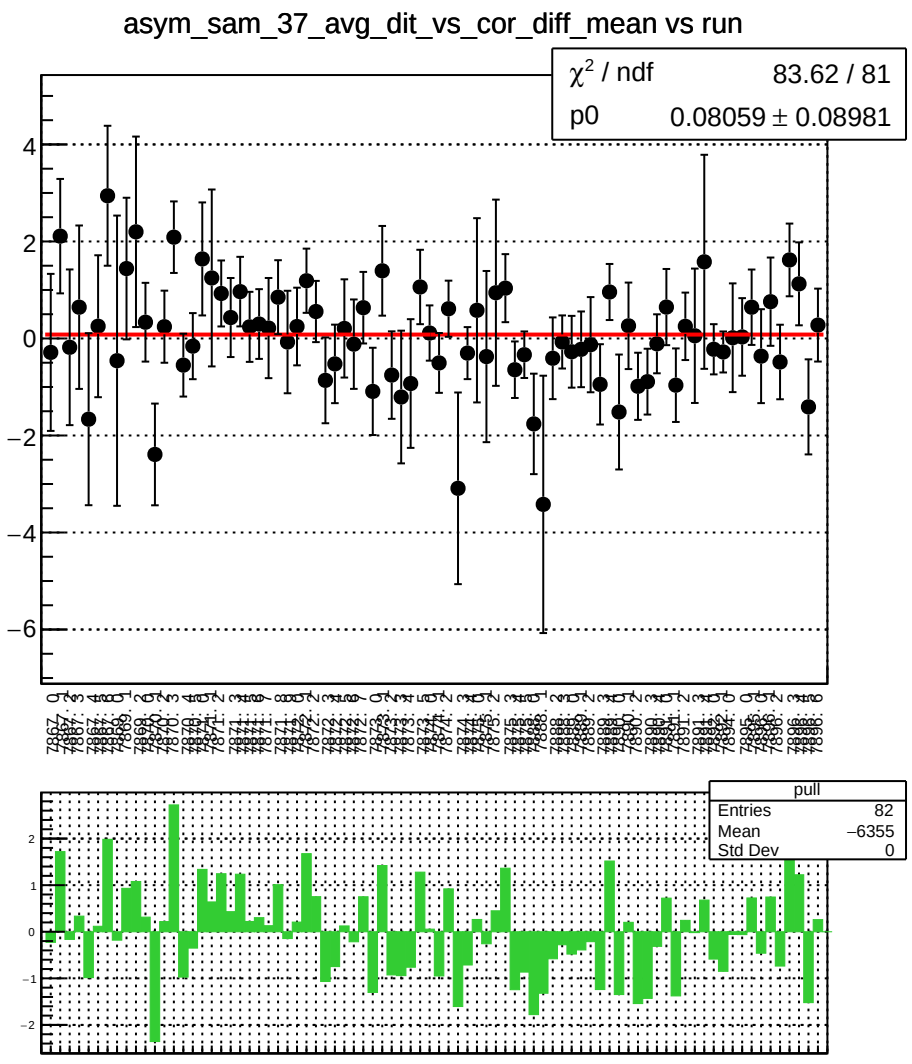

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 70.7 / 81
p0 1257 ± 2665
100
50
0
−50
−100
pull
Entries 82
Mean −108.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

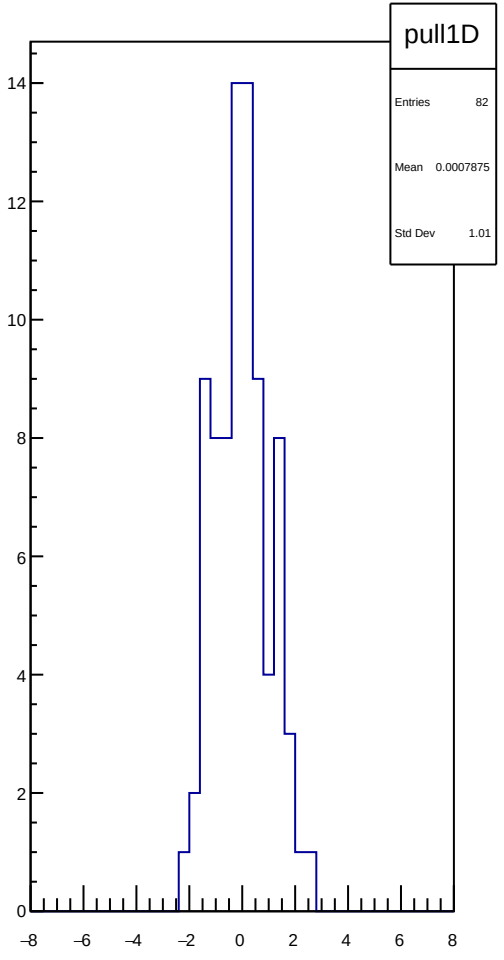

pull1D
Entries 82
Mean 0.004859
Std Dev 0.9286
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

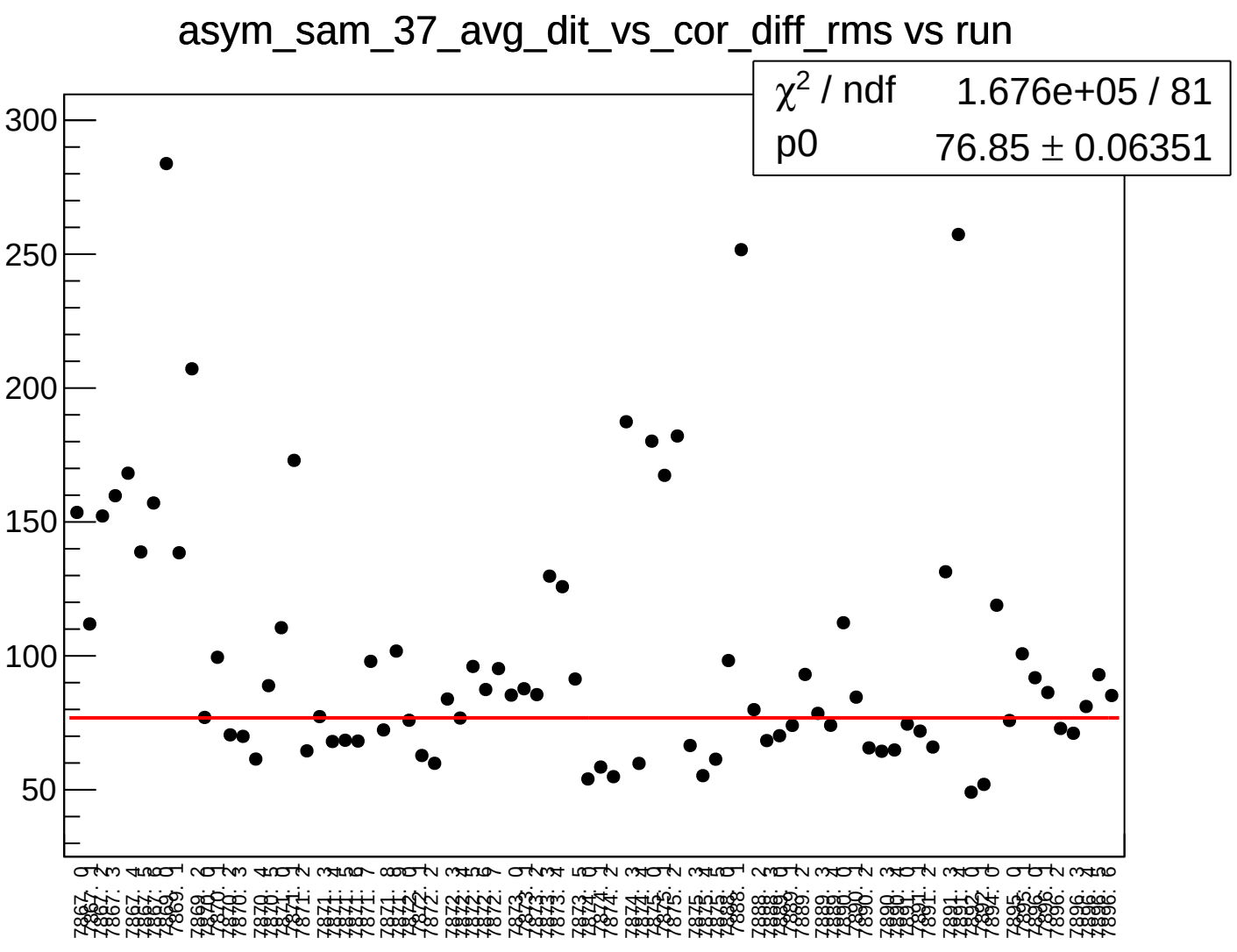

asym_sam_37_avg_rms vs run
χ² / ndf 1.472e+04 / 81
p0 2397 ± 1.884
4000
3500
3000
2500
2000

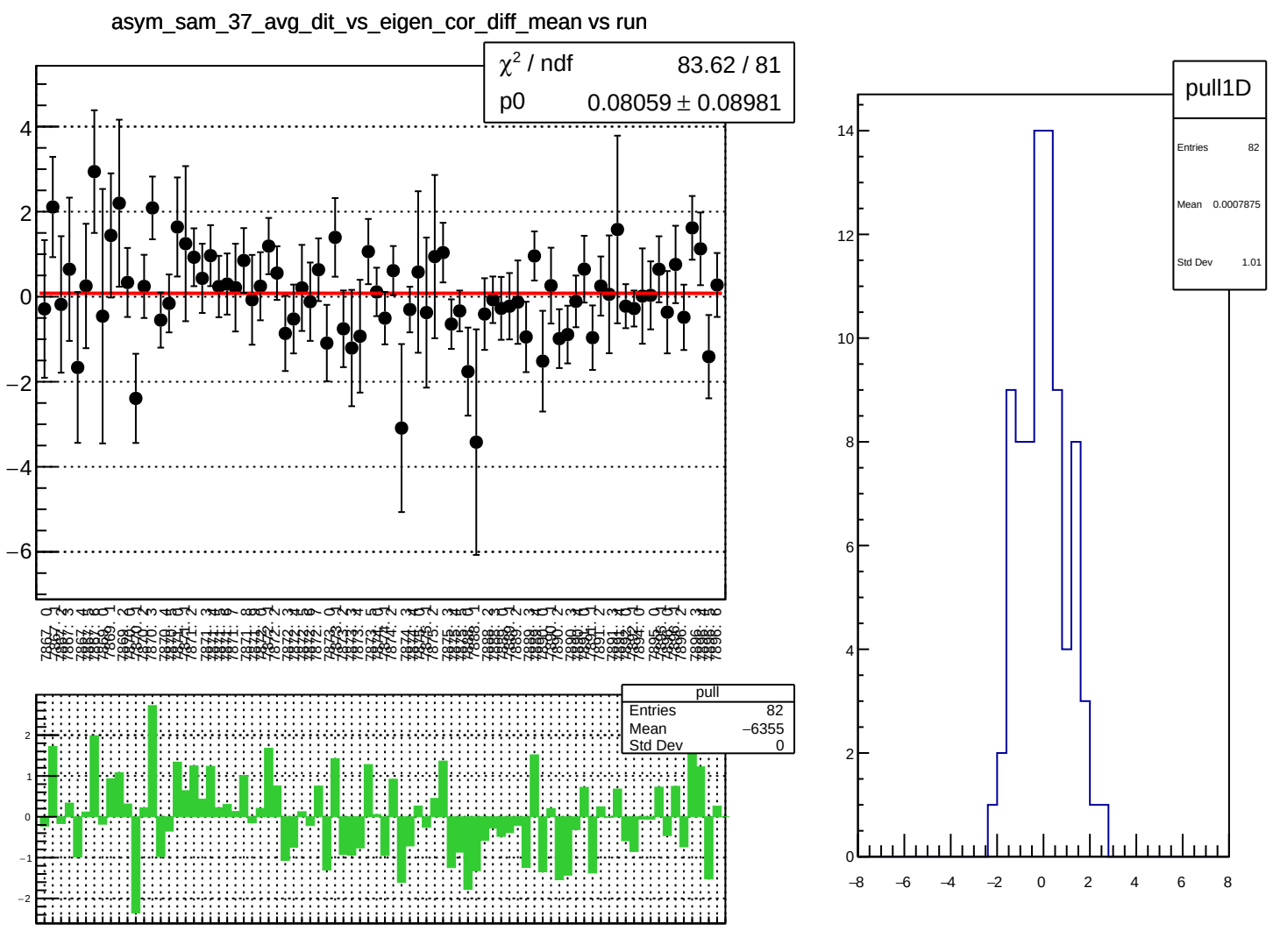

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.9 / 81
p0 −3.299e−13 ± 5.236e−13
pull
Entries 82
Mean 59.1
Std Dev 54.88
pull1D
Entries 82
Mean −0.02752
Std Dev 0.8892

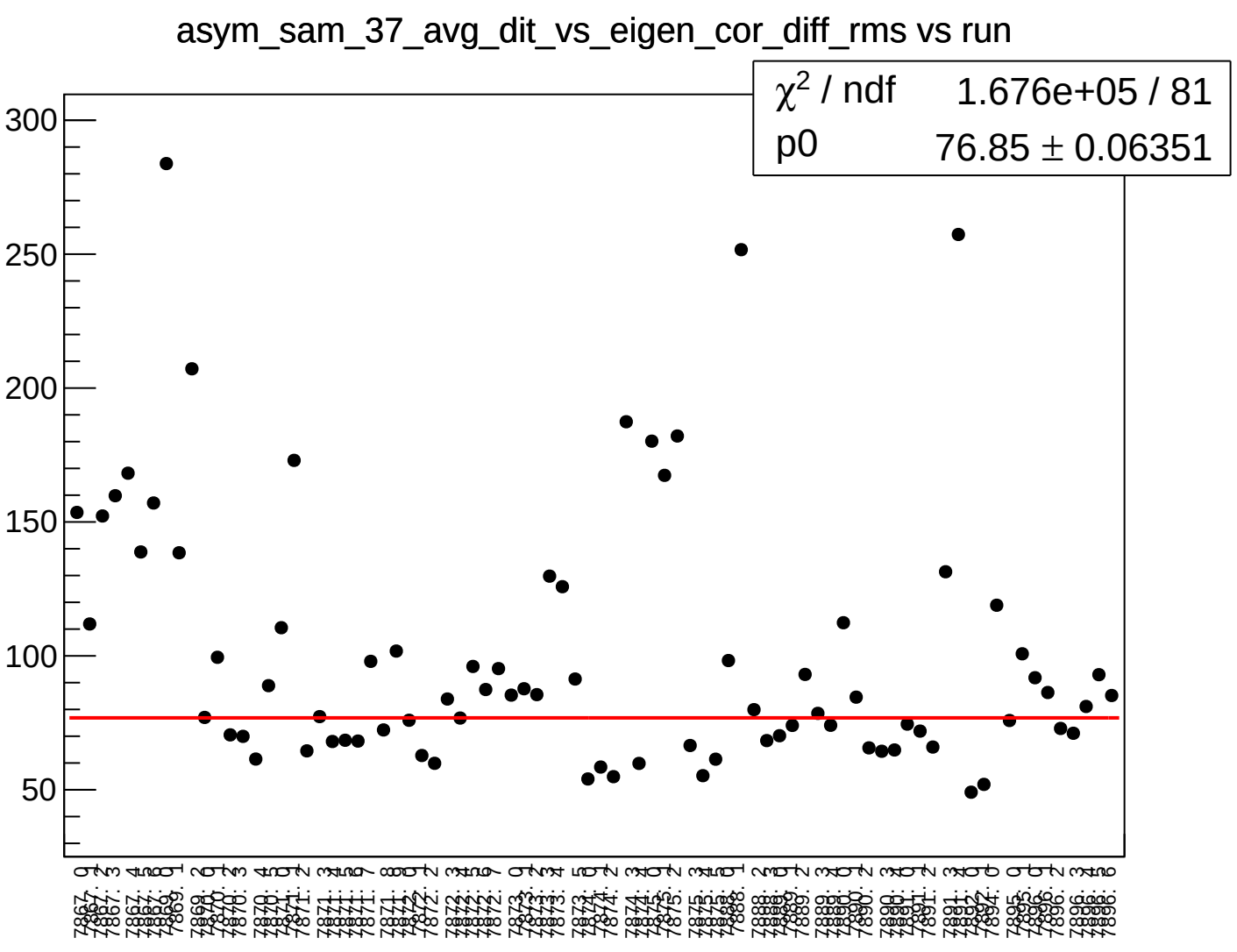

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.478e+05 / 81
p0 3.279e−10 ± 3.703e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

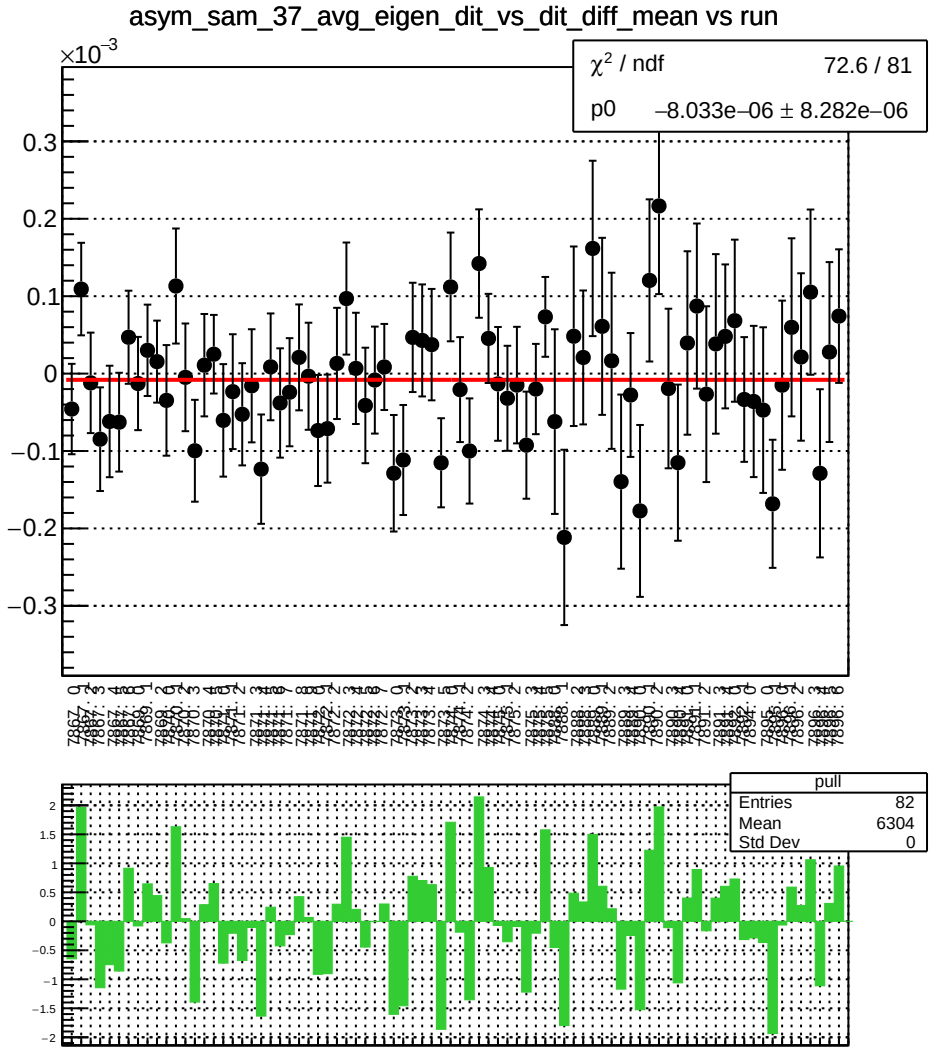

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.62 / 81
p0 0.08059 ± 0.08981
pull
Entries 82
Mean −6355
Std Dev 0

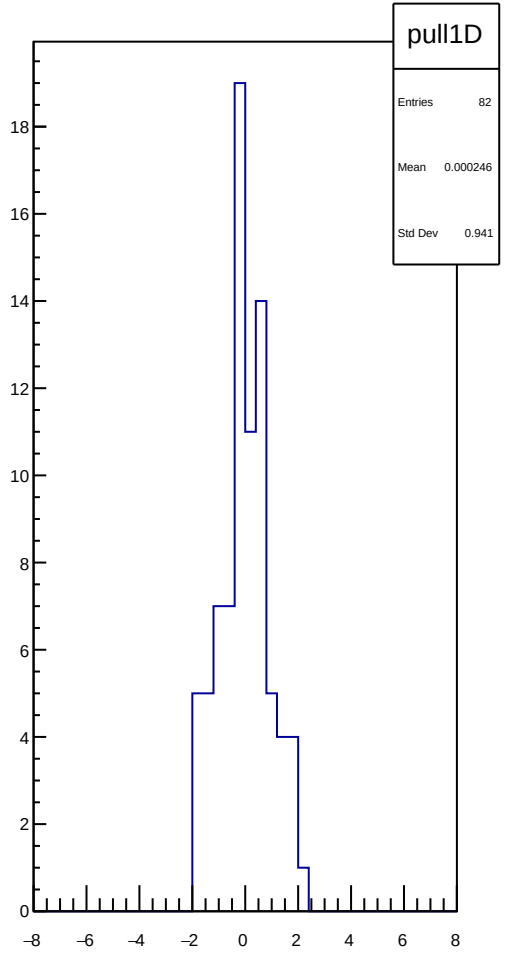

pull1D
Entries 82
Mean 0.0007875
Std Dev 1.01

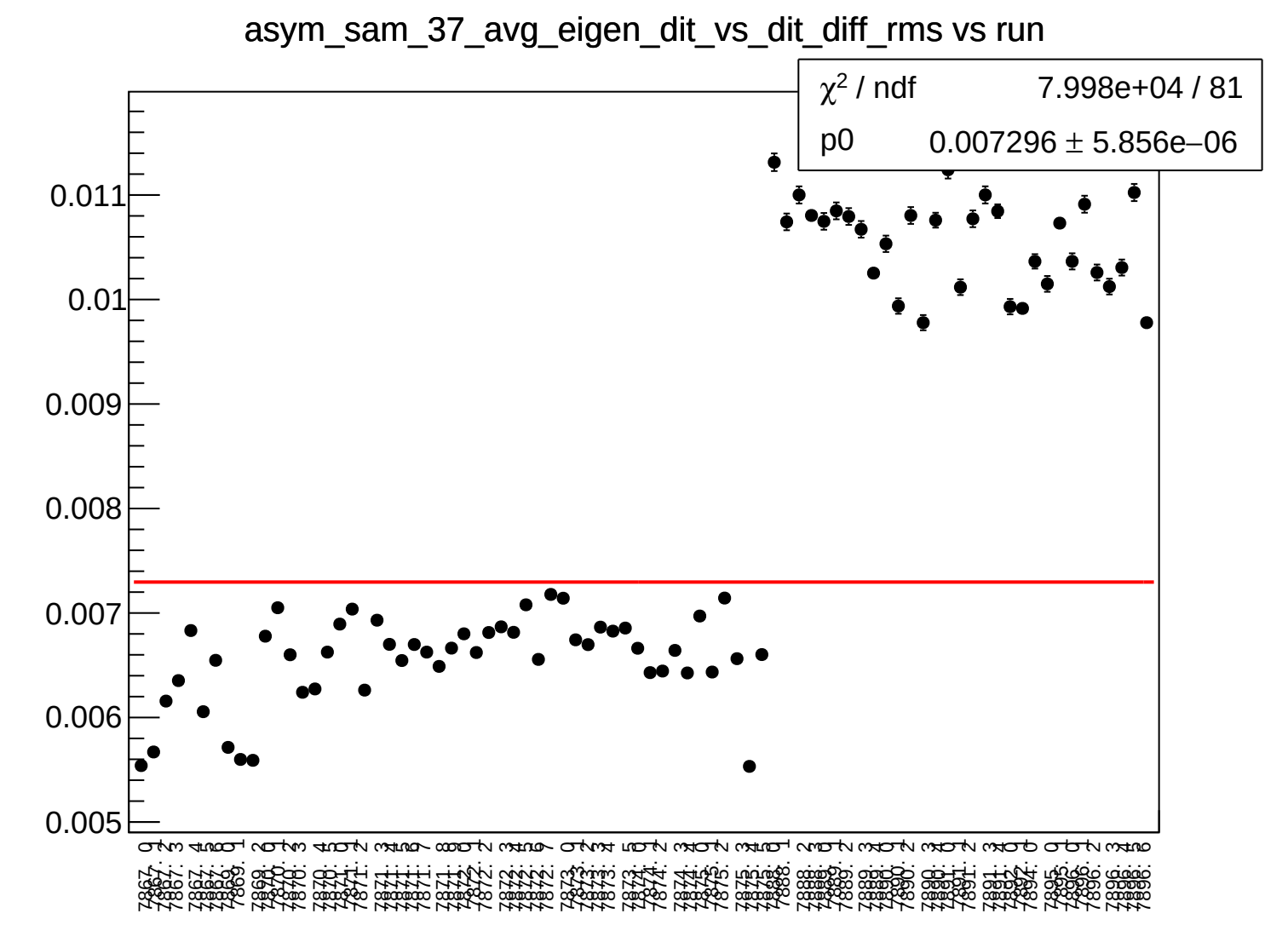

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 81
p0 76.85 ± 0.06351
300
250
200
150
100
50

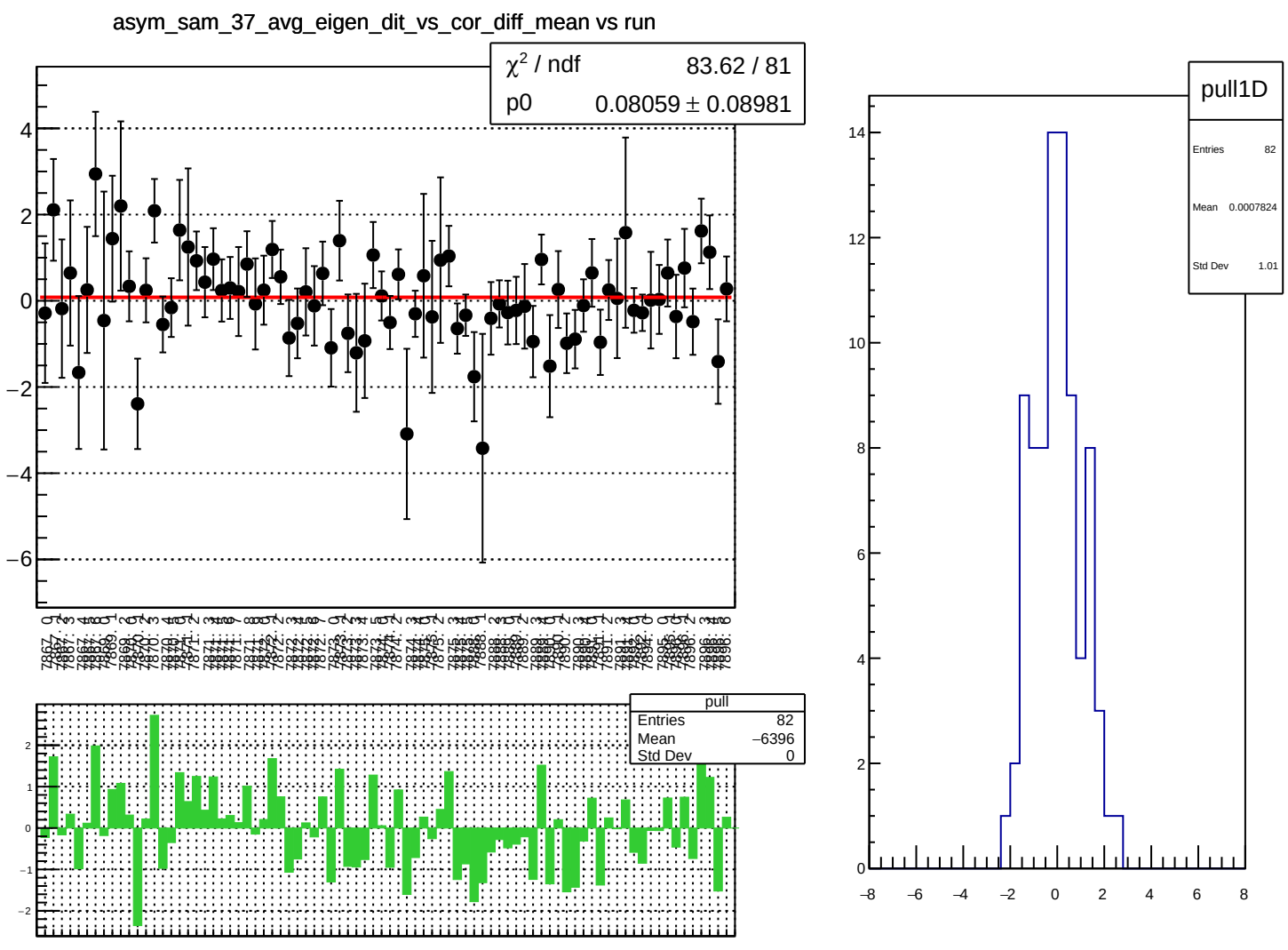

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.62 / 81
p0 0.08059 ± 0.08981
pull
Entries 82
Mean −6355
Std Dev 0
pull1D
Entries 82
Mean 0.0007875
Std Dev 1.01

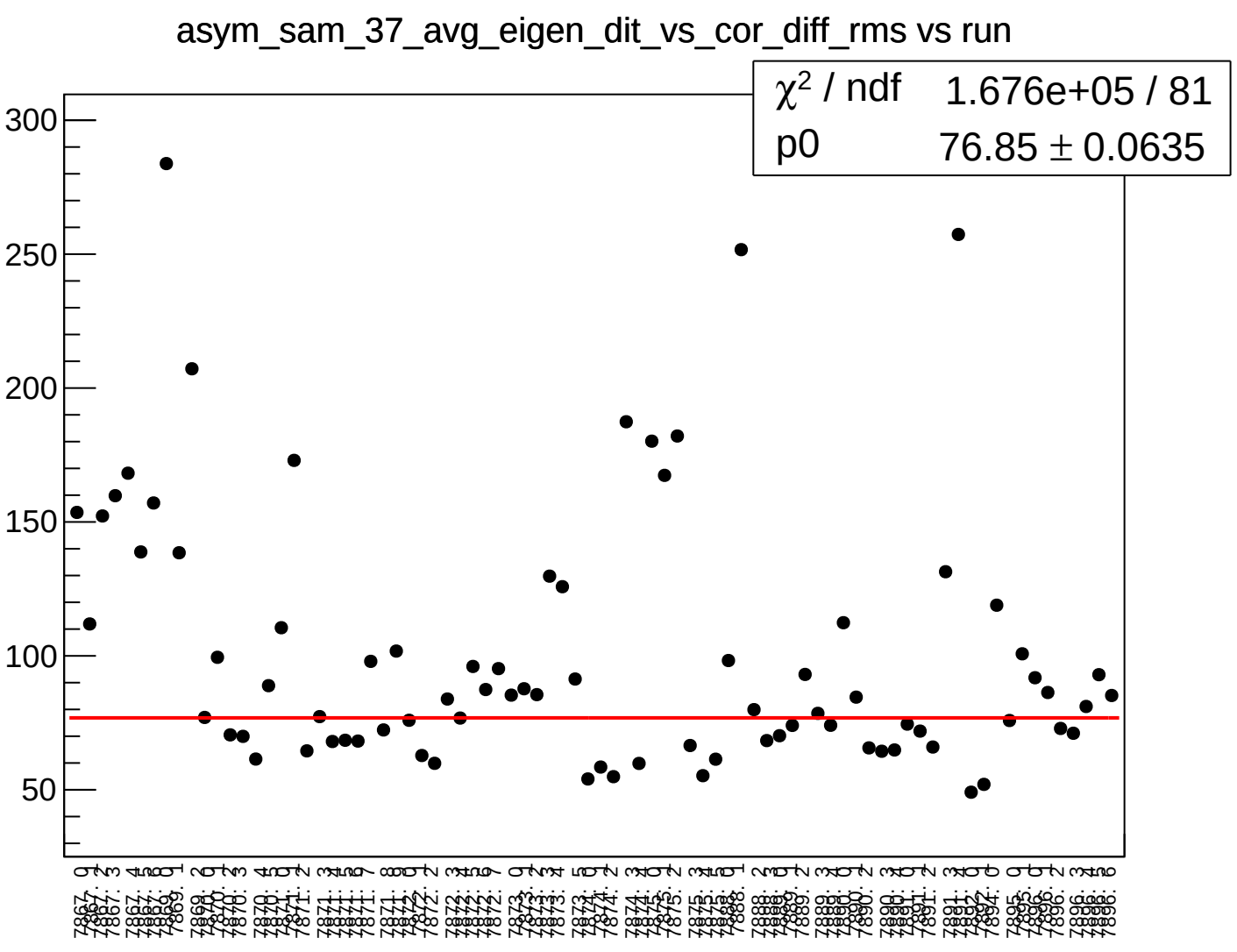

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 81
p0 76.85 ± 0.06351
300
250
200
150
100
50

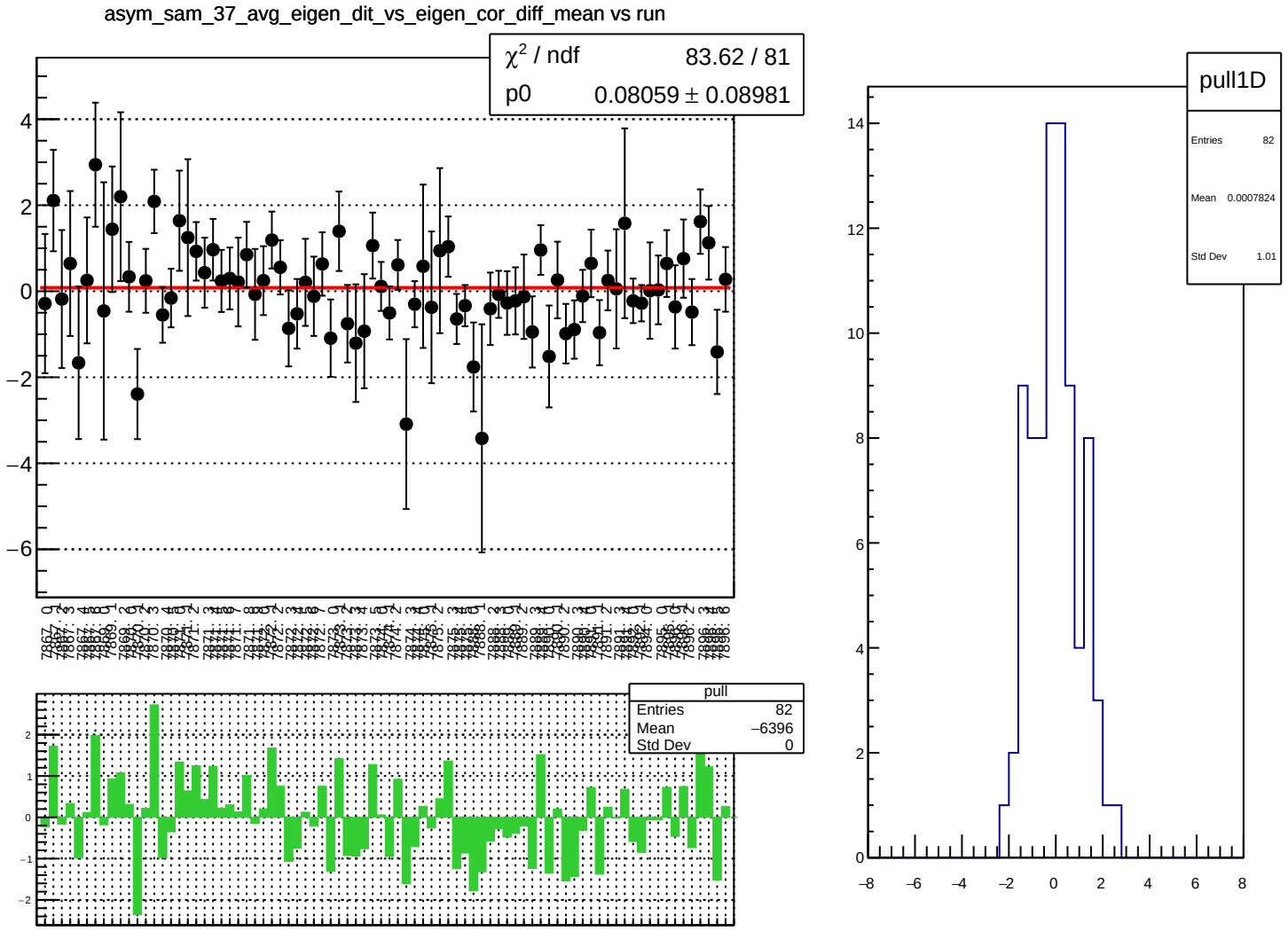

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.6 / 81
p0 −8.033e−06 ± 8.282e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 82
Mean 6304
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

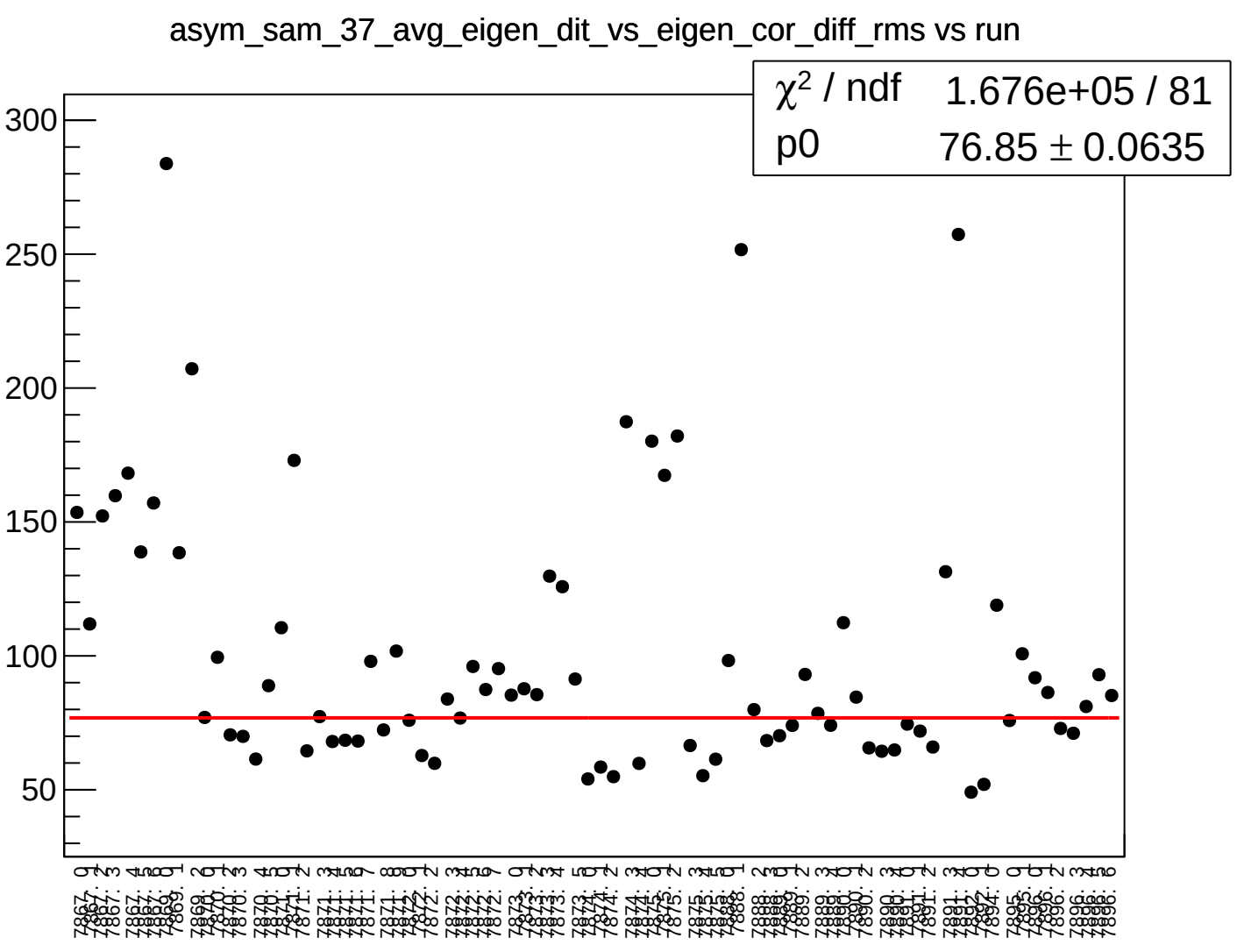

pull1D
Entries 82
Mean 0.000246
Std Dev 0.941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

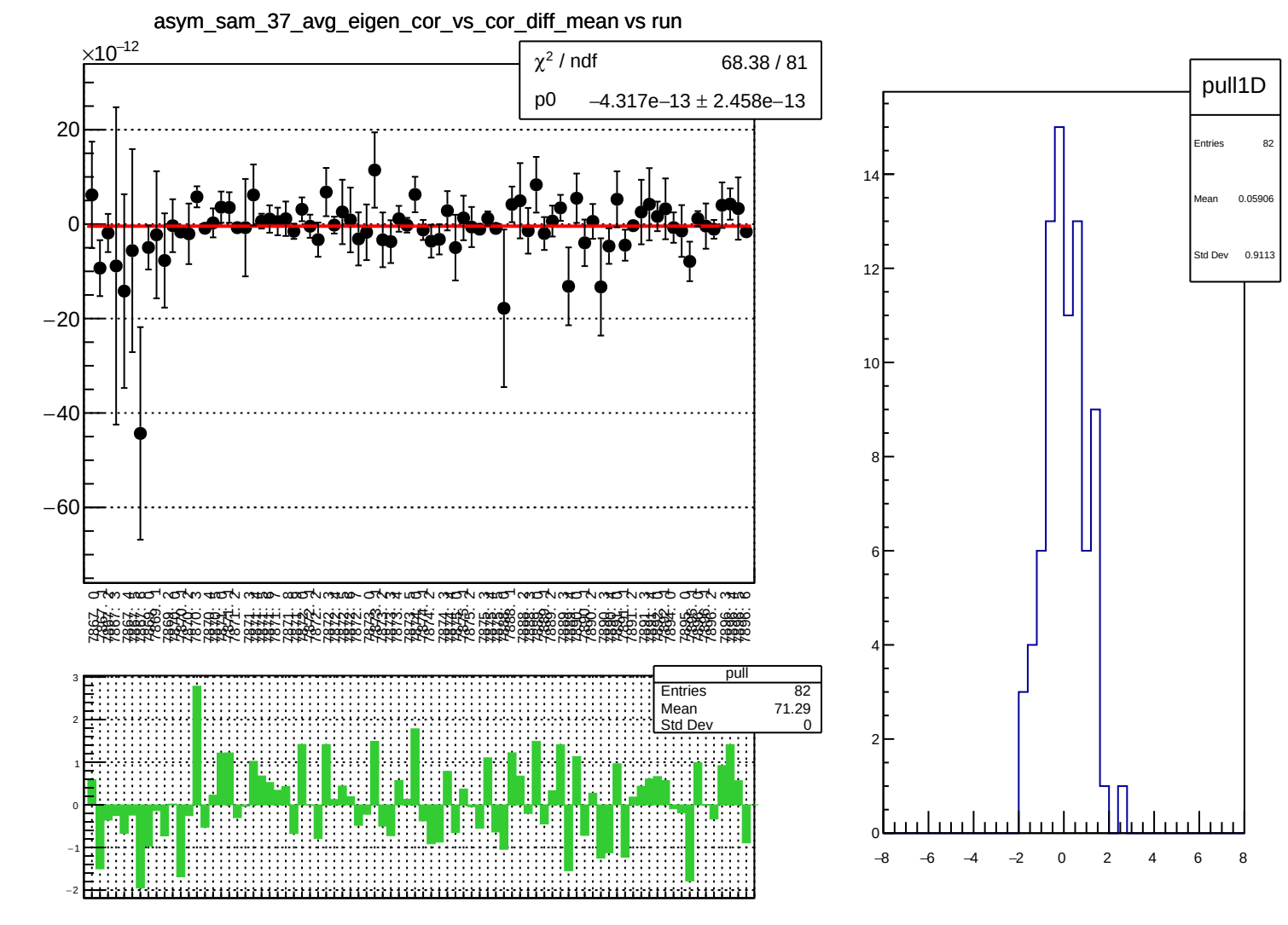

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.998e+04 / 81
p0 0.007296 ± 5.856e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

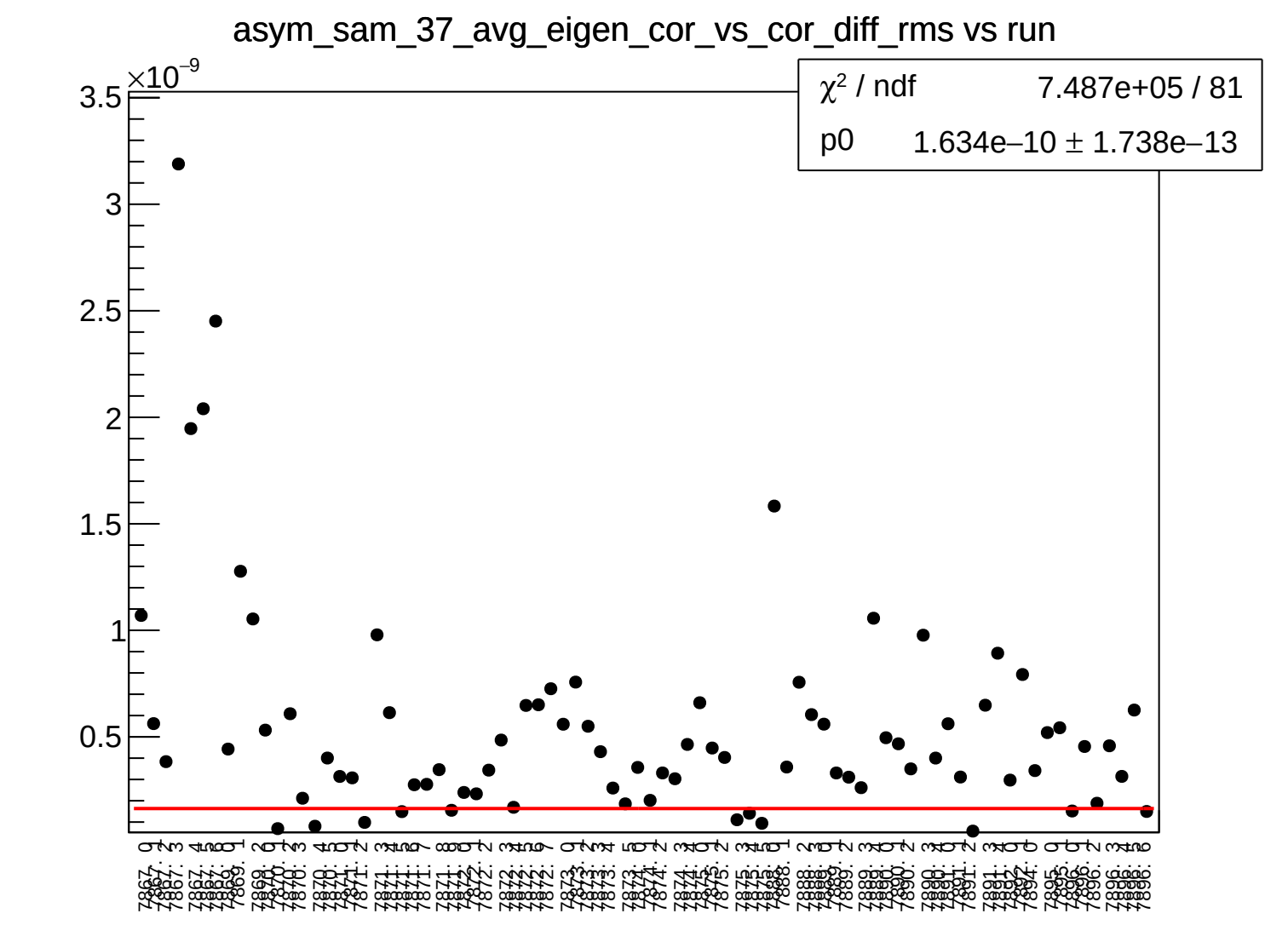

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.62 / 81
p0 0.08059 ± 0.08981
pull
Entries 82
Mean −6396
Std Dev 0
pull1D
Entries 82
Mean 0.0007824
Std Dev 1.01

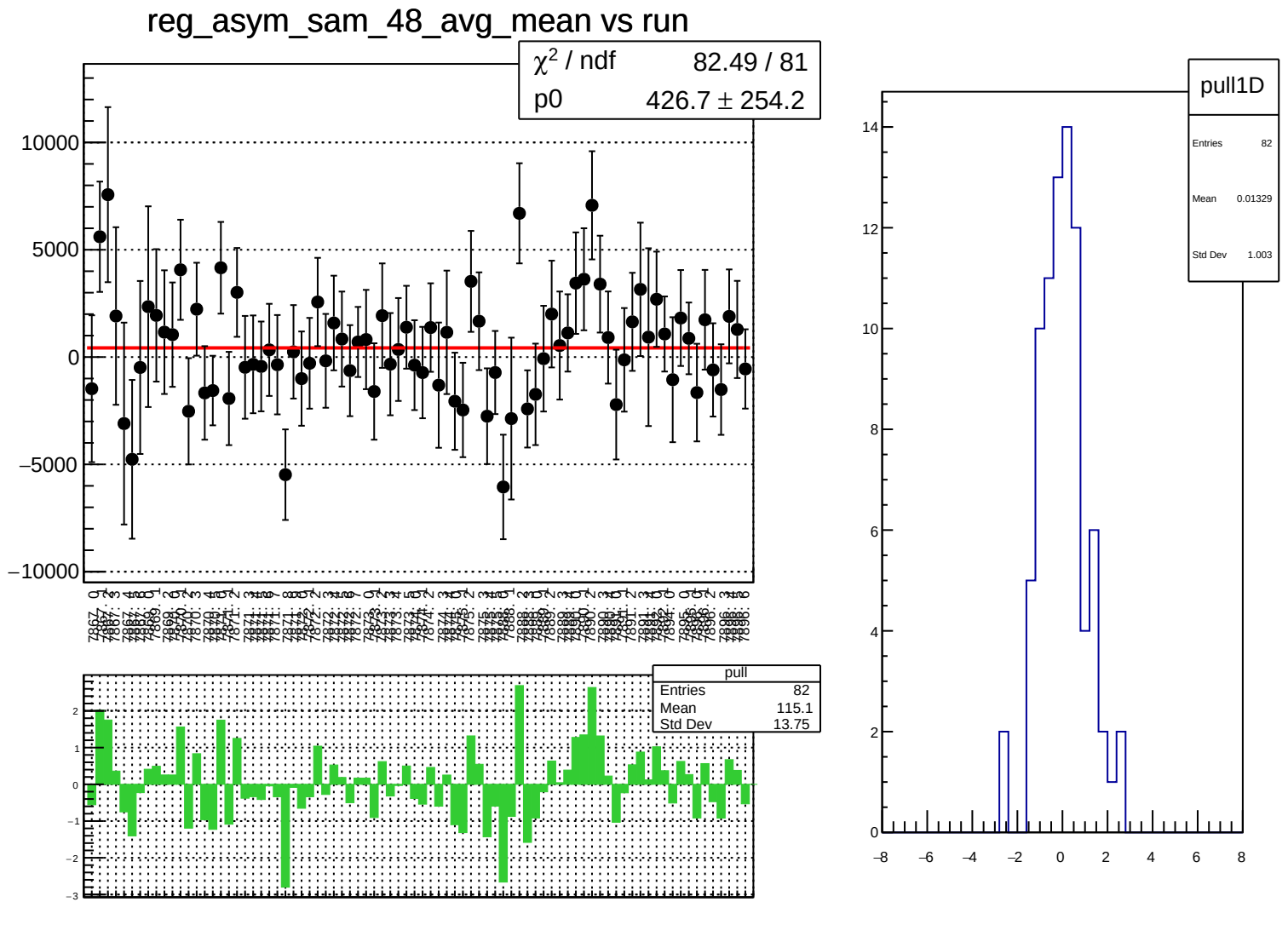

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 81
p0 76.85 ± 0.0635
300
250
200
150
100
50

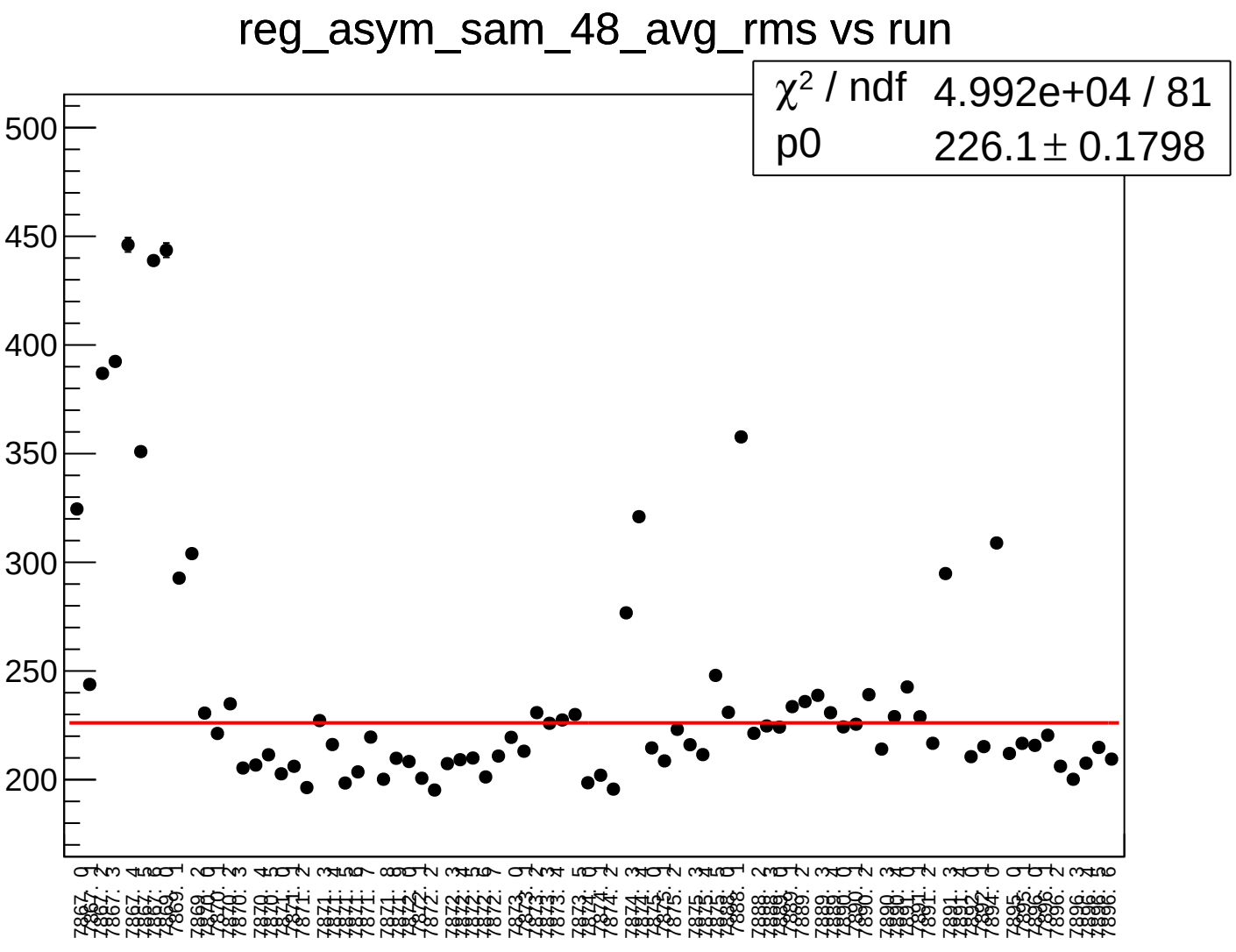

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.62 / 81
p0 0.08059 ± 0.08981
pull
Entries 82
Mean −6396
Std Dev 0
pull1D
Entries 82
Mean 0.0007824
Std Dev 1.01

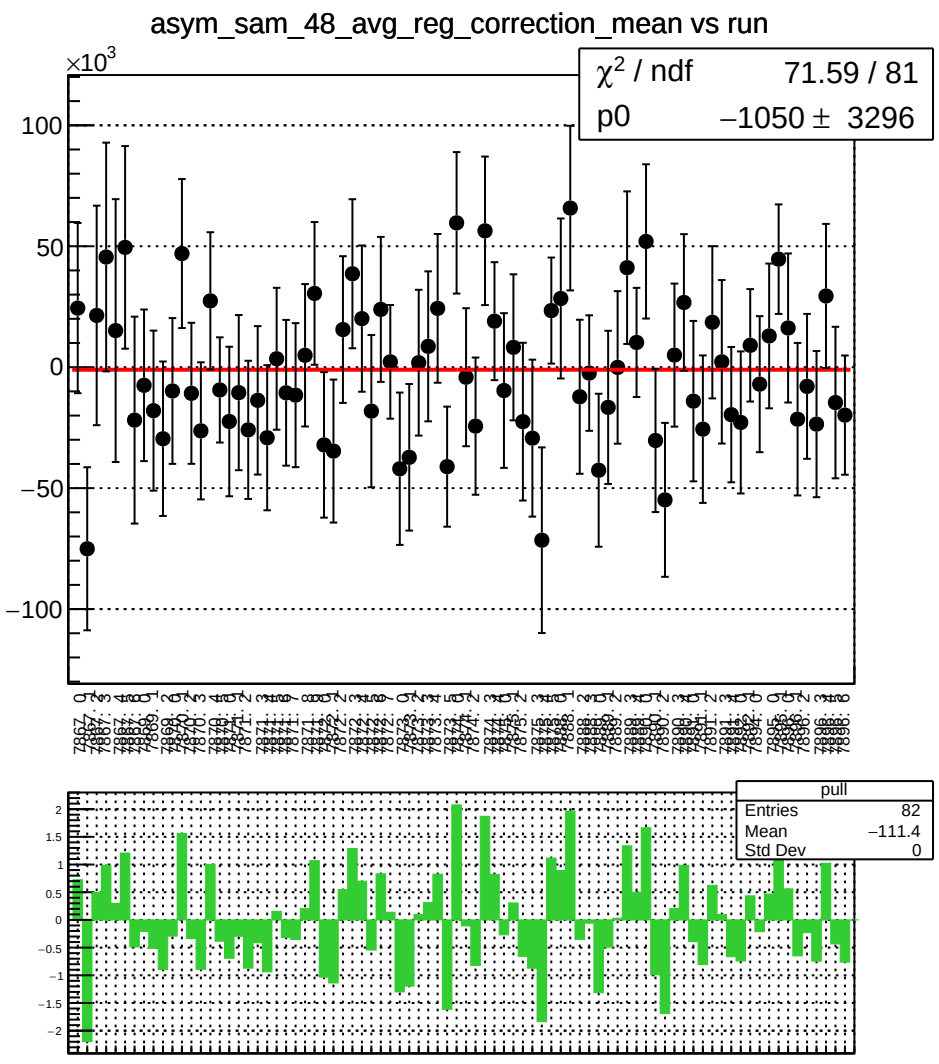

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 81
p0 76.85 ± 0.0635
300
250
200
150
100
50

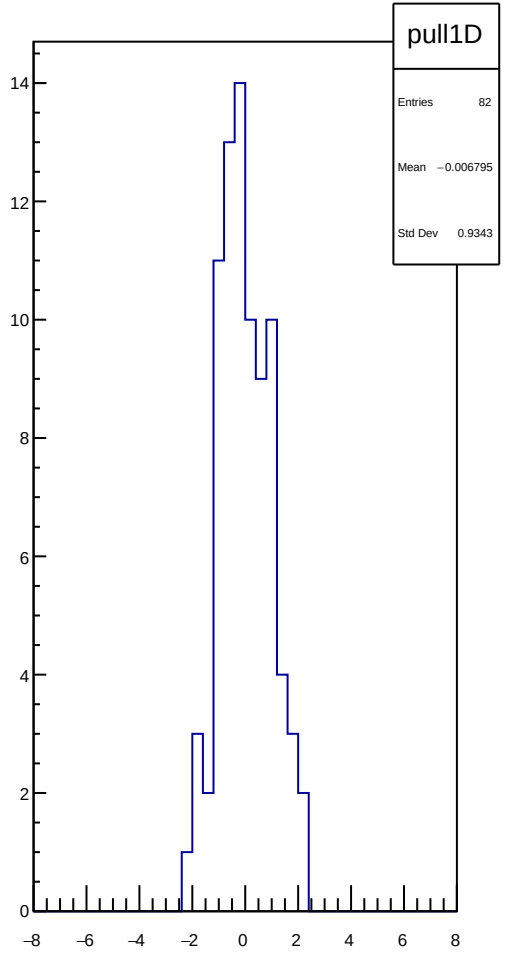

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 68.38 / 81
p0 −4.317e−13 ± 2.458e−13
20
0
−20
−40
−60
pull
Entries 82
Mean 71.29
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.05906
Std Dev 0.9113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

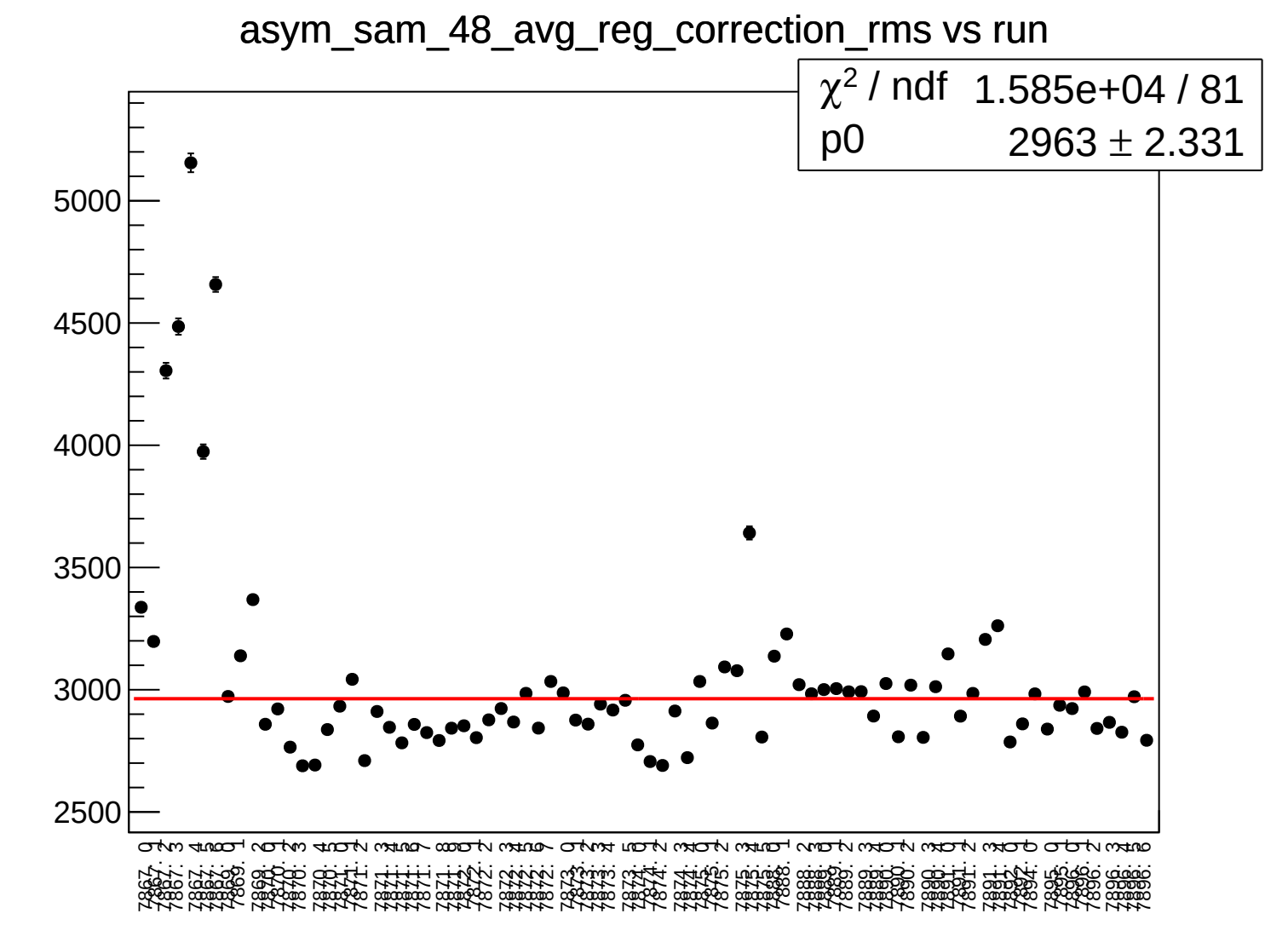

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 7.487e+05 / 81
p0 1.634e−10 ± 1.738e−13

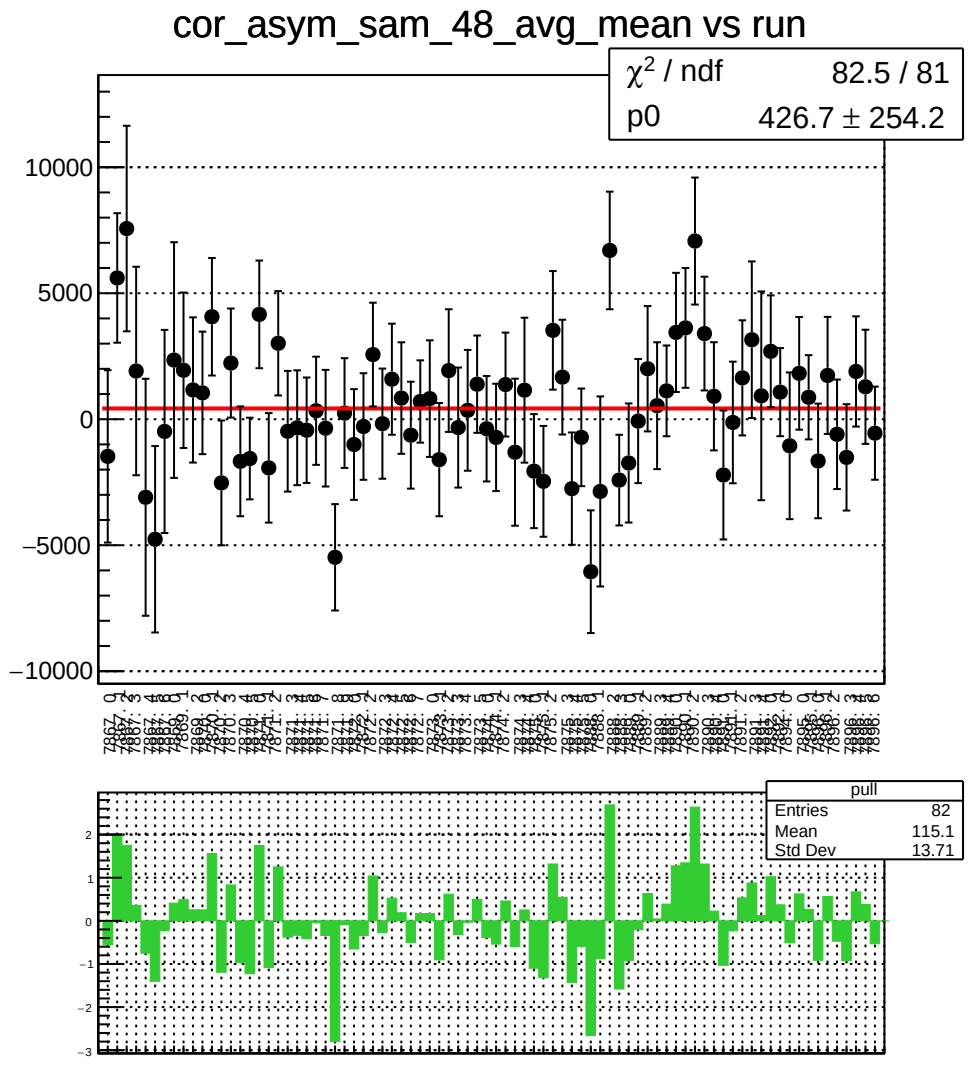

reg_asym_sam_48_avg_mean vs run
χ² / ndf 82.49 / 81
p0 426.7 ± 254.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 115.1
Std Dev 13.75
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.01329
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

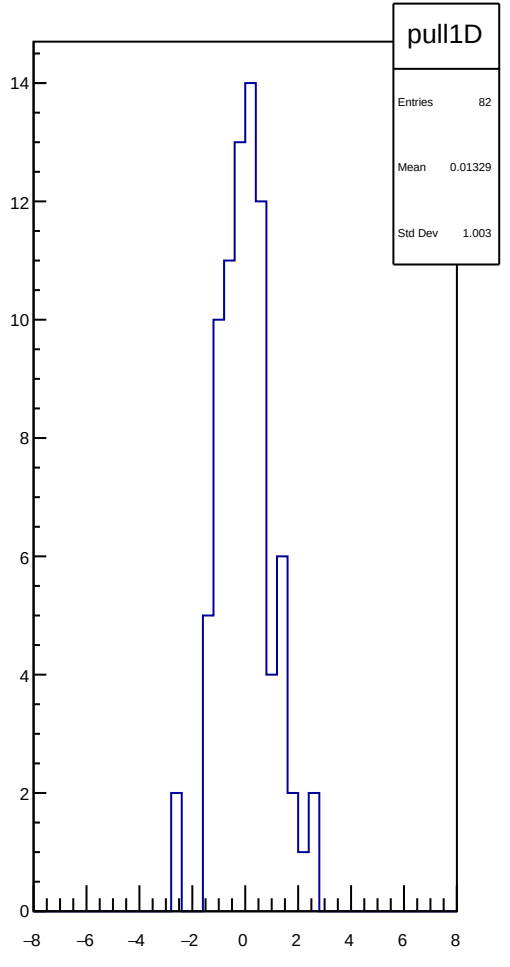

reg_asym_sam_48_avg_rms vs run
χ² / ndf 4.992e+04 / 81
p0 226.1 ± 0.1798
500
450
400
350
300
250
200

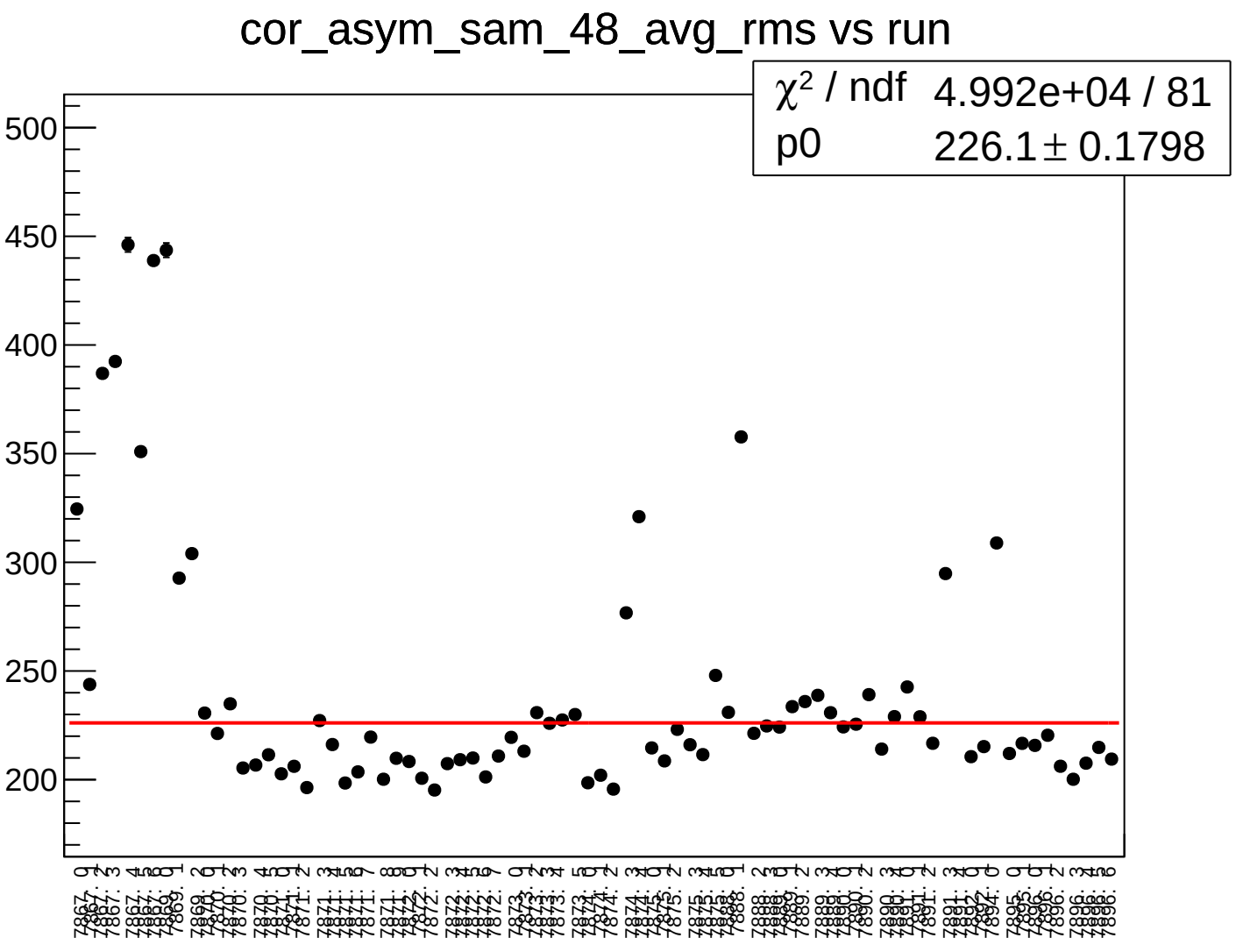

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 71.59 / 81
p0 −1050 ± 3296
100
50
0
−50
−100
pull
Entries 82
Mean −111.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

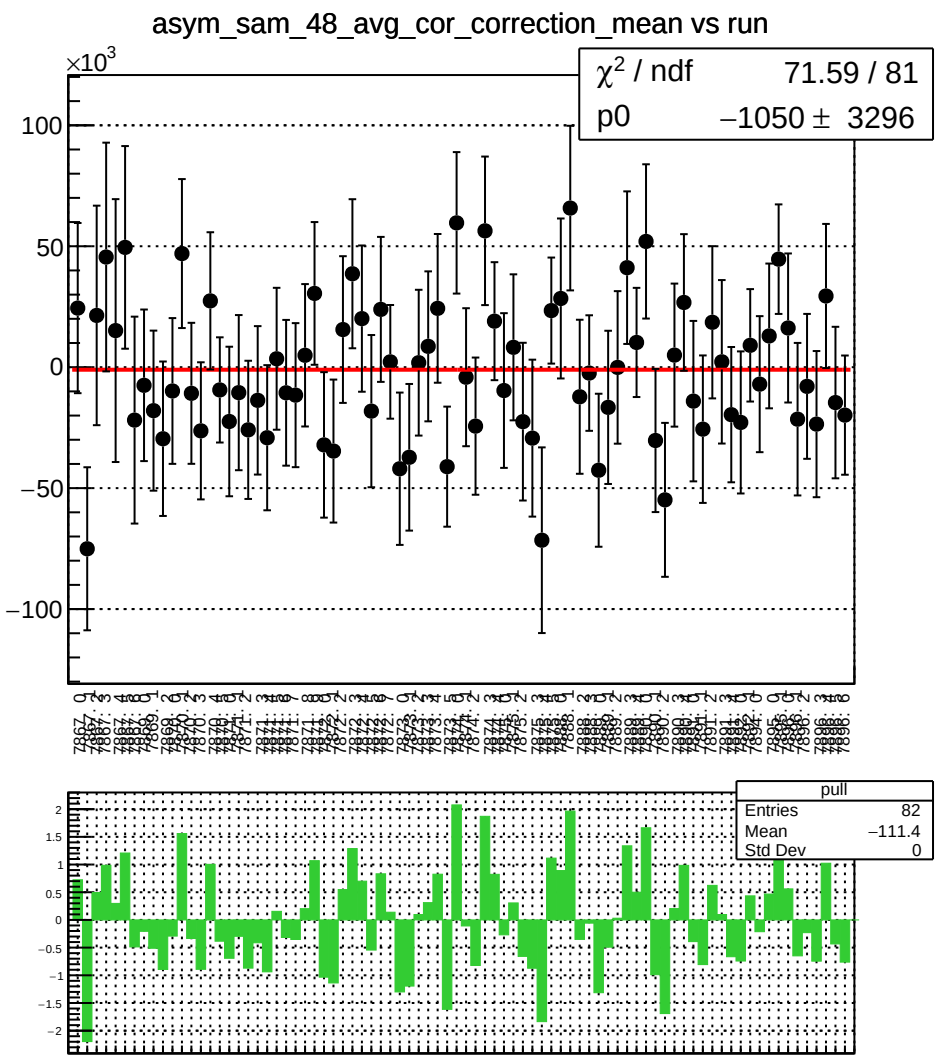

pull1D
Entries 82
Mean −0.006795
Std Dev 0.9343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

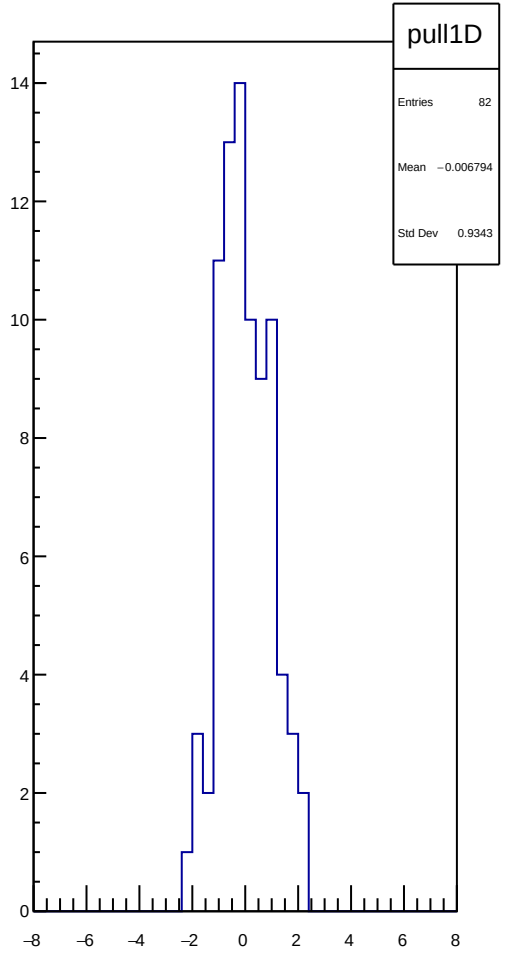

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.585e+04 / 81
p0 2963 ± 2.331
5000
4500
4000
3500
3000
2500

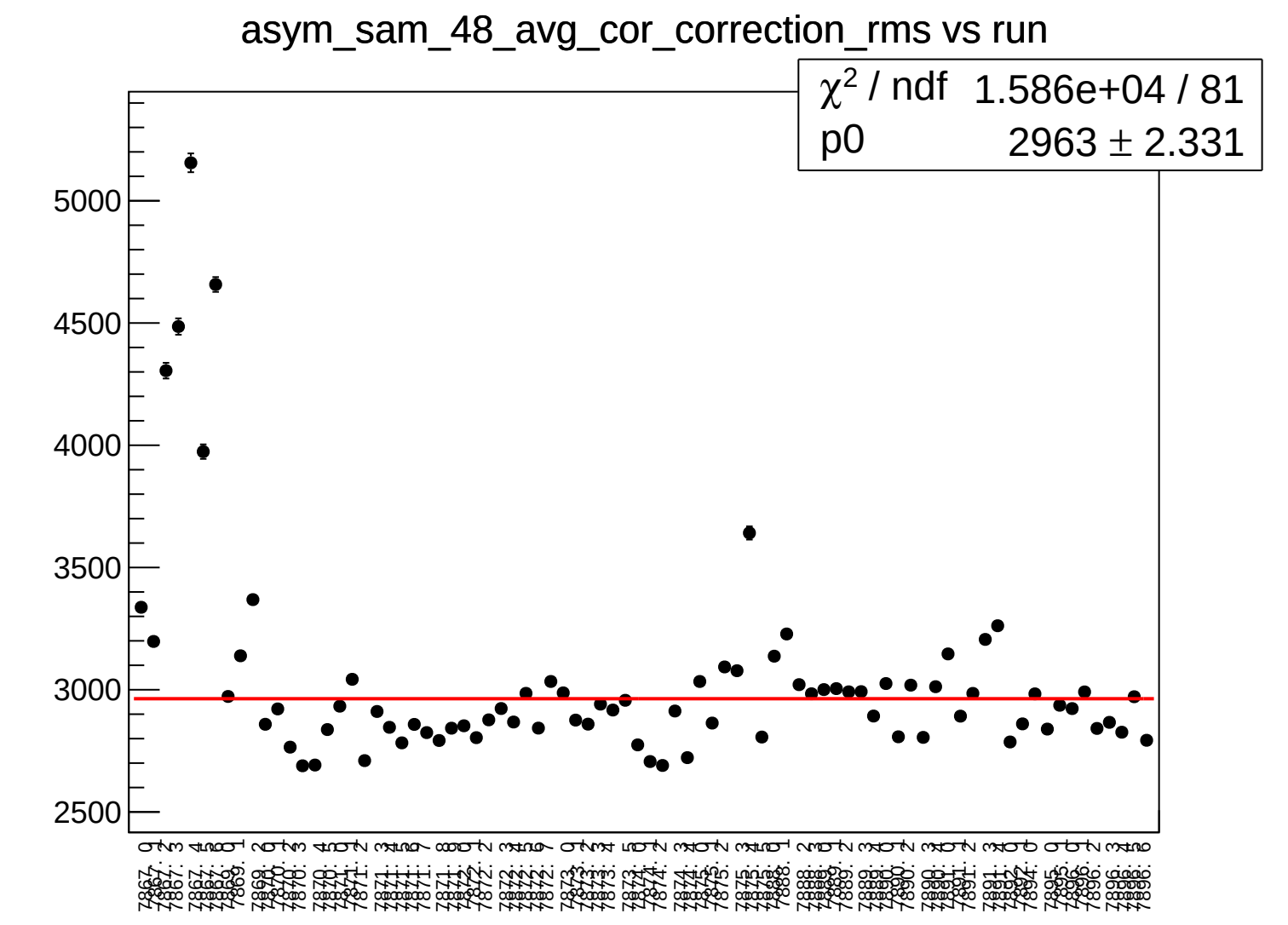

cor_asym_sam_48_avg_mean vs run
χ² / ndf 82.5 / 81
p0 426.7 ± 254.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 115.1
Std Dev 13.71
2
1
0
−1
−2
−3

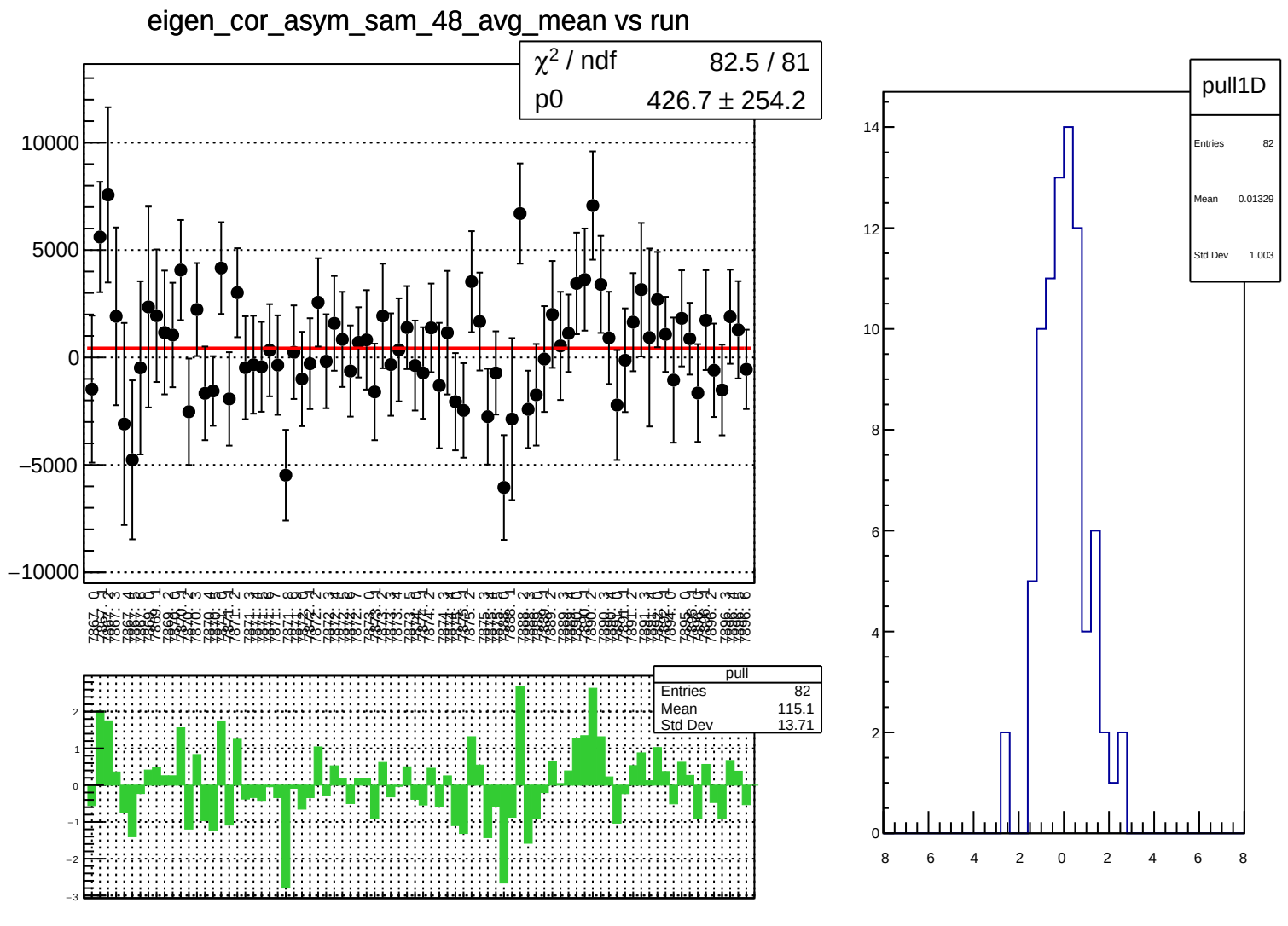

pull1D
Entries 82
Mean 0.01329
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

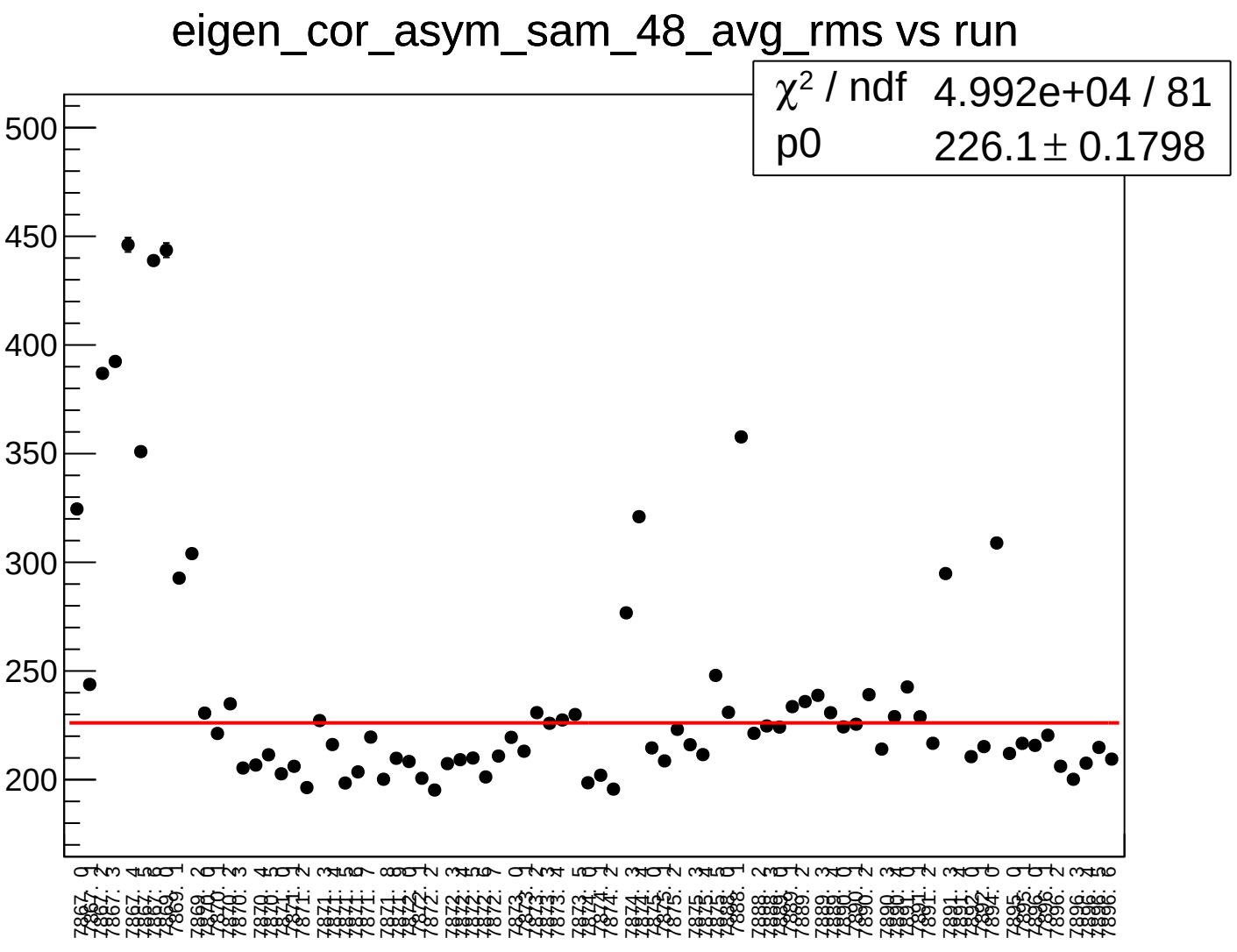

cor_asym_sam_48_avg_rms vs run
χ² / ndf 4.992e+04 / 81
p0 226.1 ± 0.1798
500
450
400
350
300
250
200

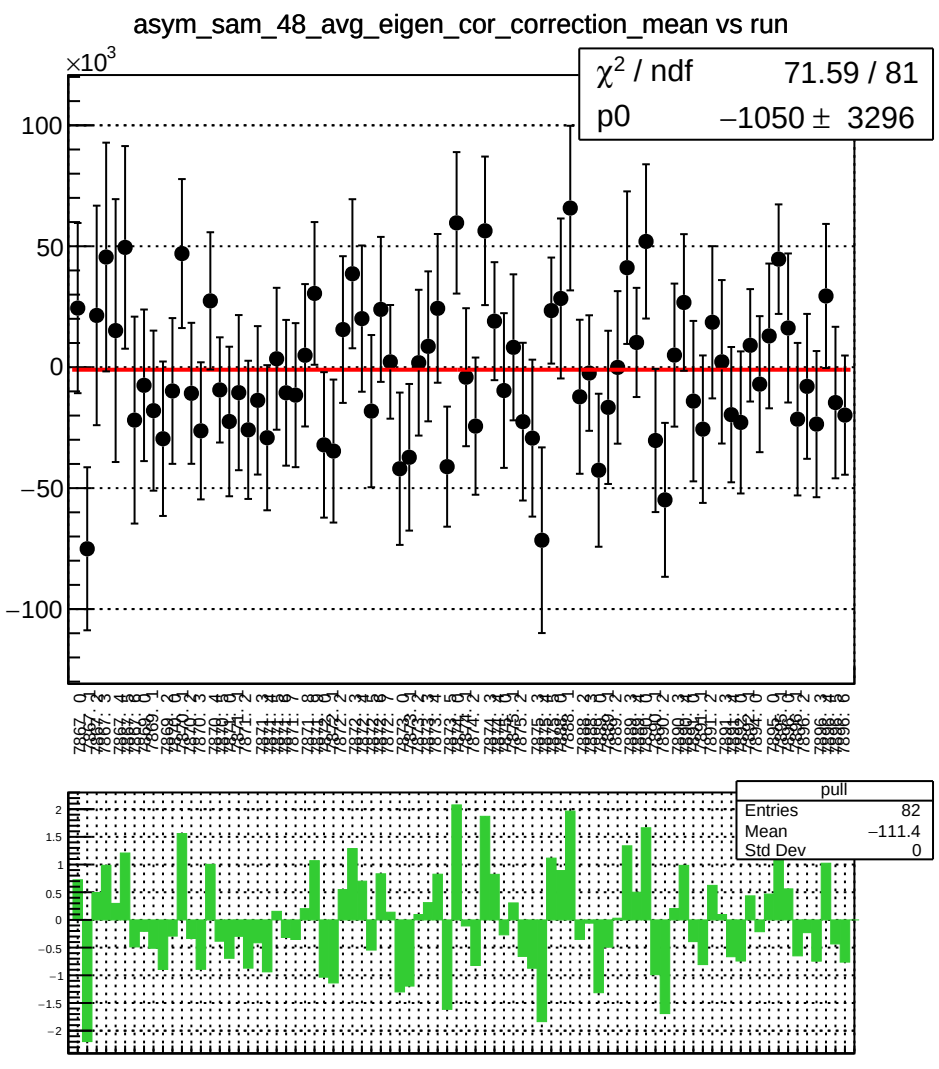

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 71.59 / 81
p0 −1050 ± 3296
100
50
0
−50
−100
pull
Entries 82
Mean −111.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

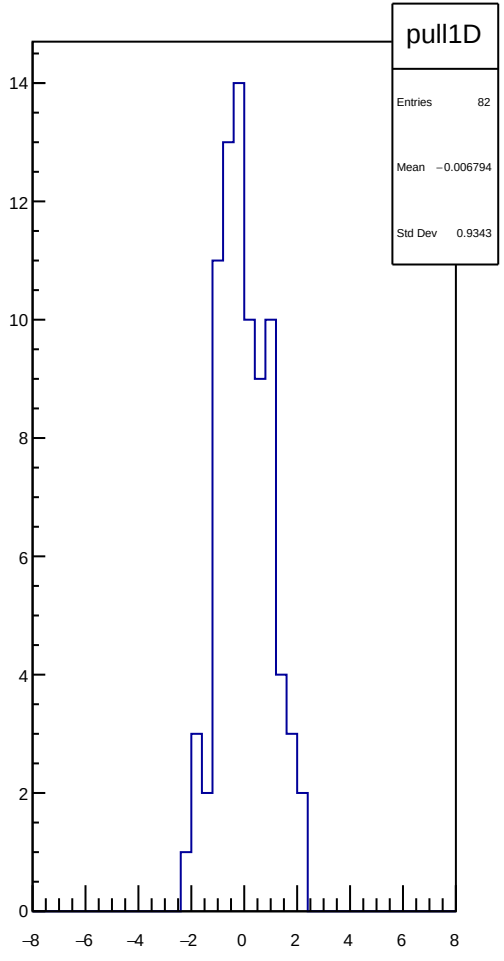

pull1D
Entries 82
Mean −0.006794
Std Dev 0.9343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

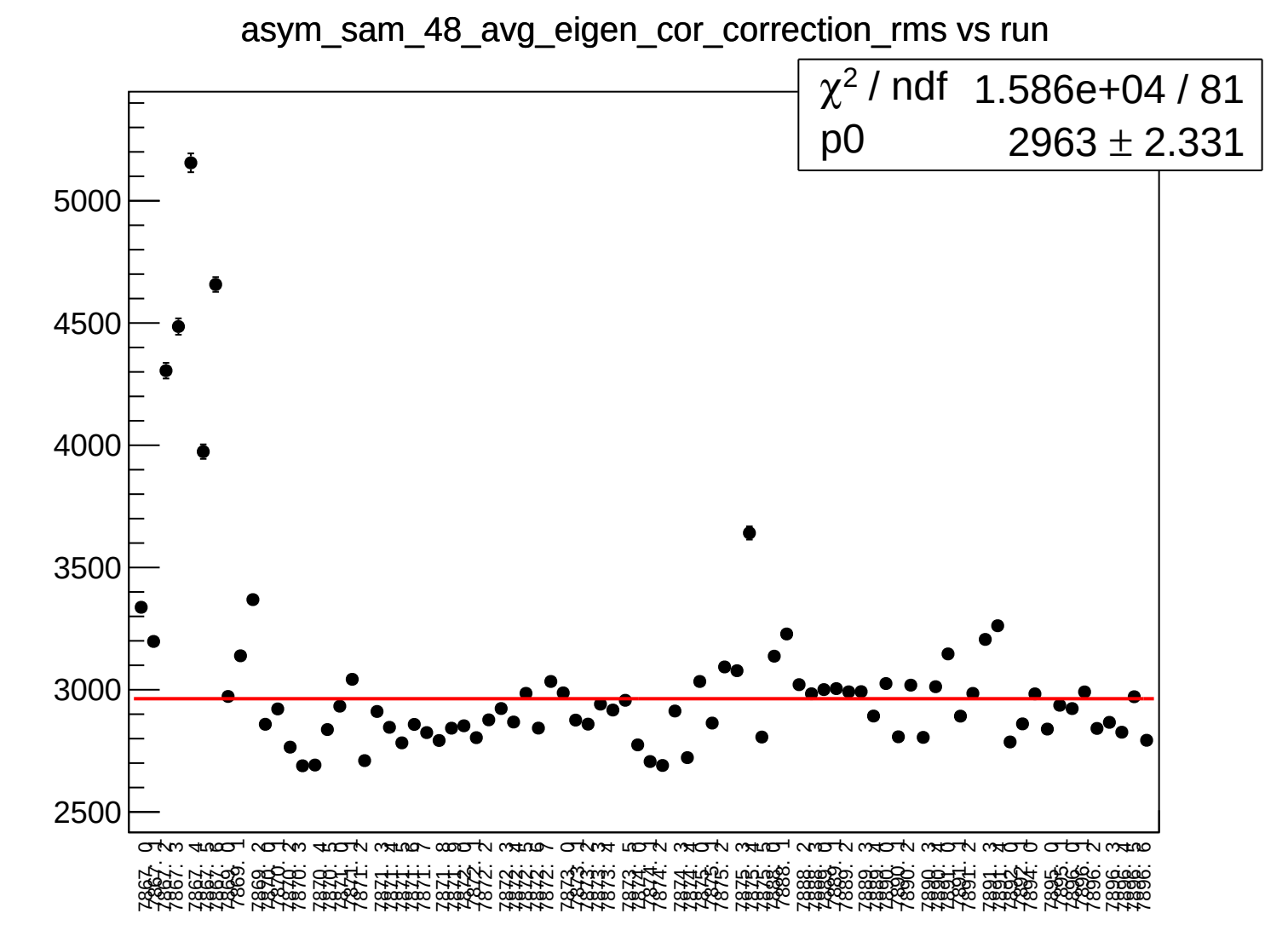

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.586e+04 / 81
p0 2963 ± 2.331
5000
4500
4000
3500
3000
2500

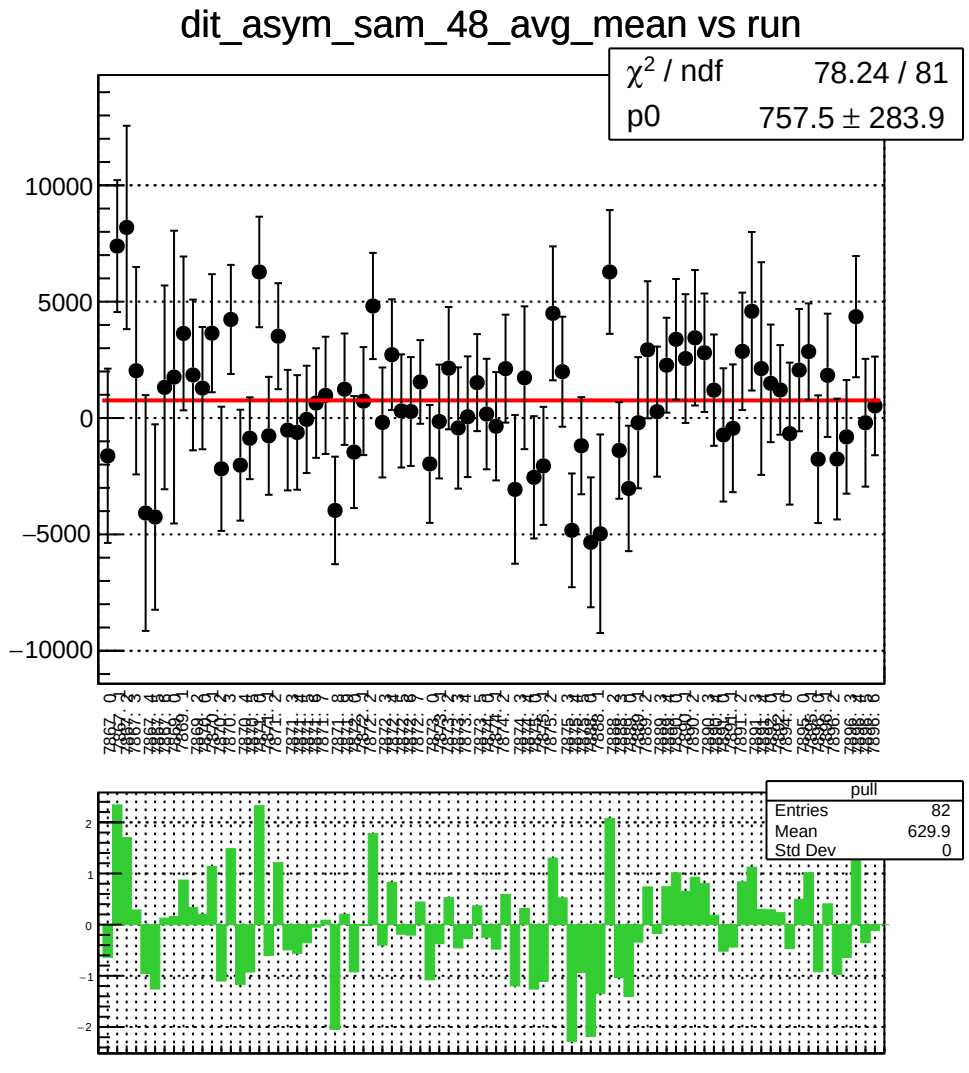

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 82.5 / 81
p0 426.7 ± 254.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 115.1
Std Dev 13.71
pull1D
Entries 82
Mean 0.01329
Std Dev 1.003

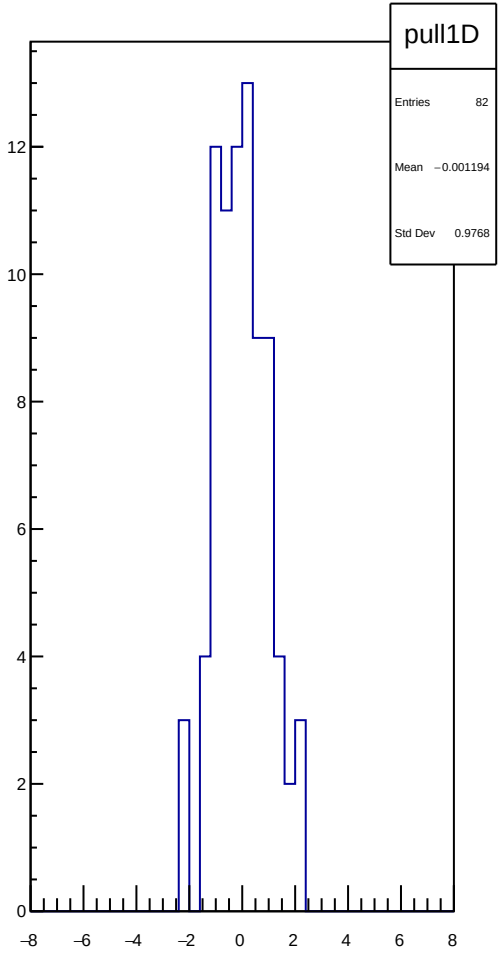

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 4.992e+04 / 81
p0 226.1 ± 0.1798
500
450
400
350
300
250
200

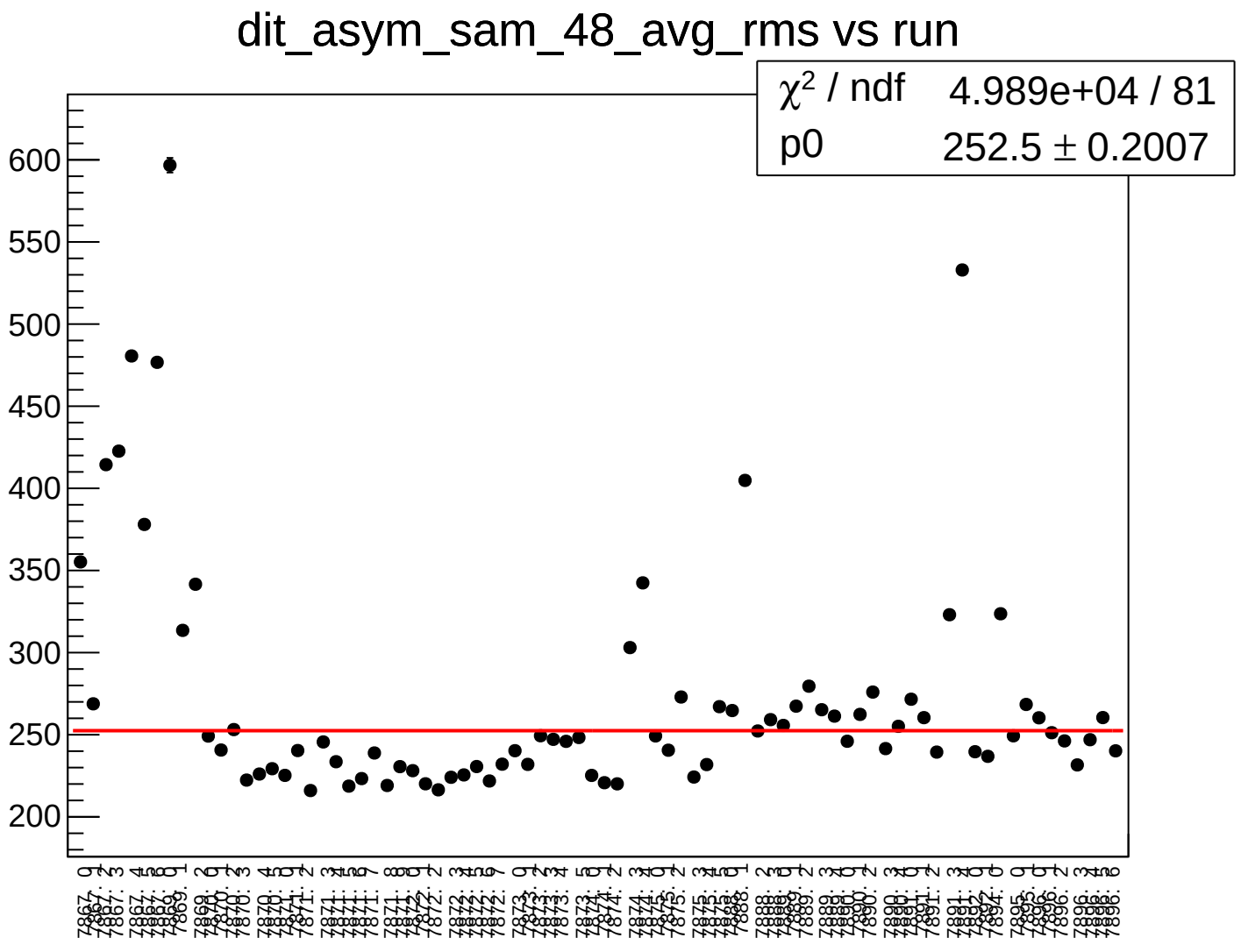

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.59 / 81
p0 −1050 ± 3296
100
50
0
−50
−100
pull
Entries 82
Mean −111.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

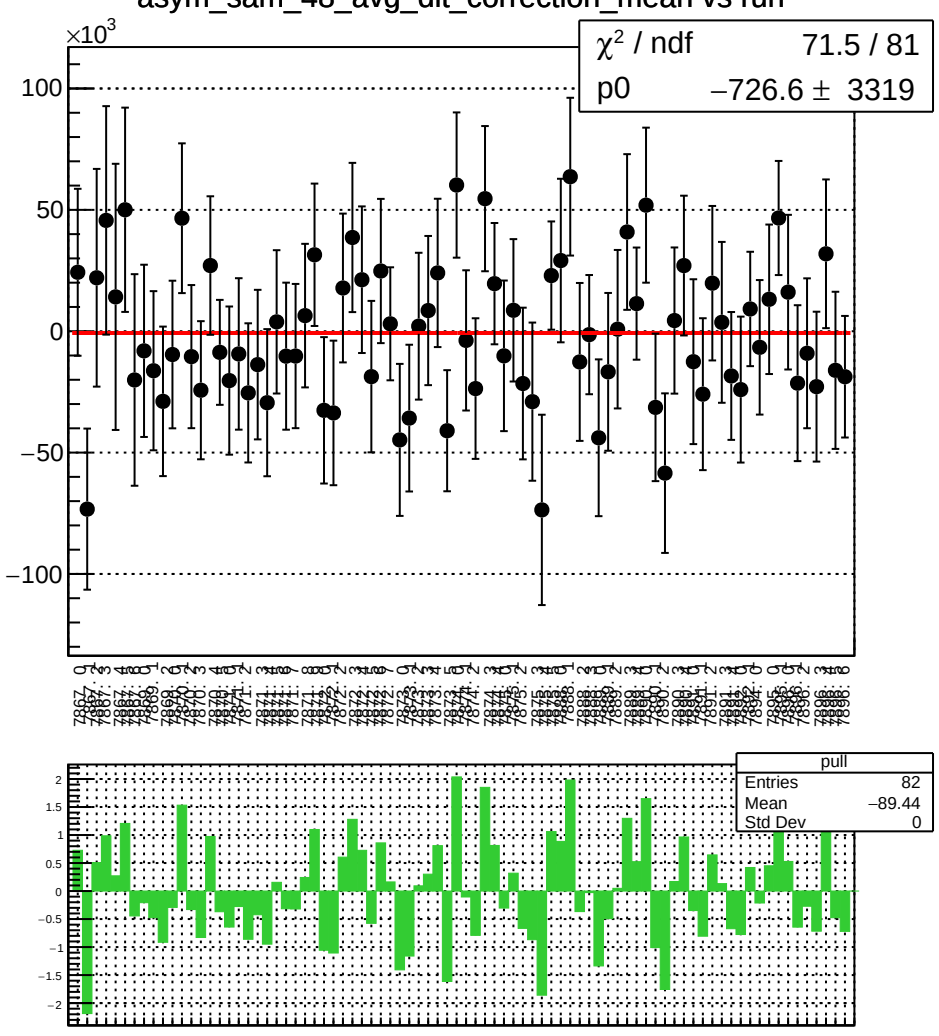

pull1D
Entries 82
Mean −0.006794
Std Dev 0.9343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

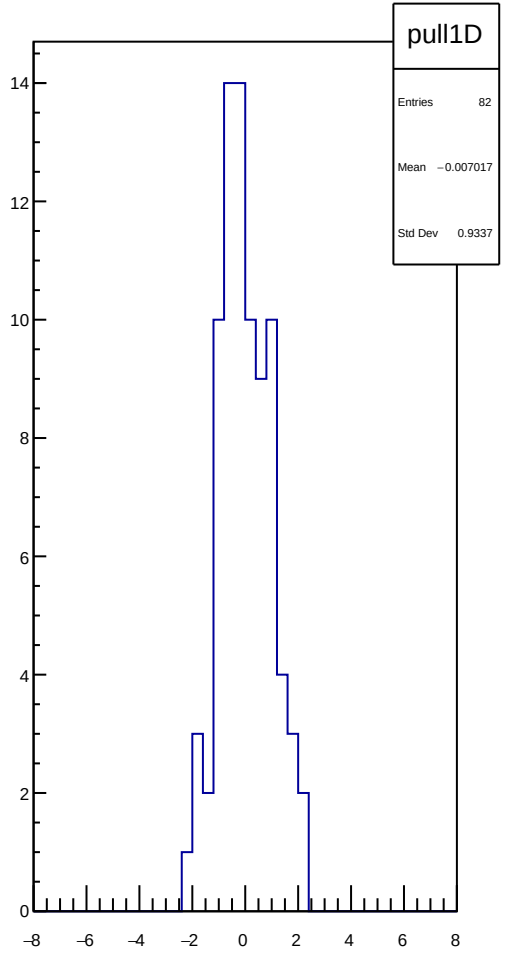

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.586e+04 / 81
p0 2963 ± 2.331
5000
4500
4000
3500
3000
2500

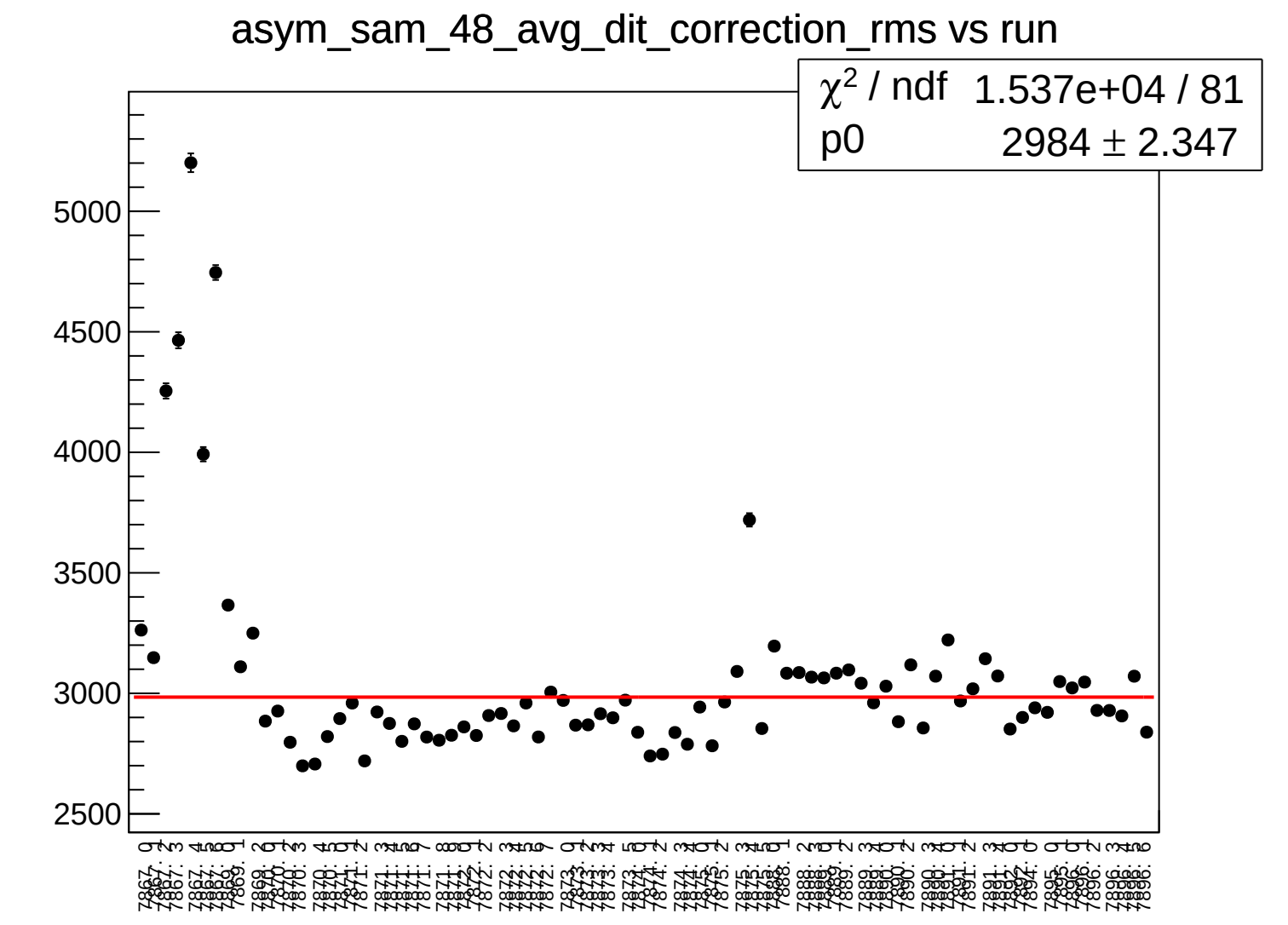

dit_asym_sam_48_avg_mean vs run
χ² / ndf 78.24 / 81
p0 757.5 ± 283.9
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 629.9
Std Dev 0
2
1
0
−1
−2

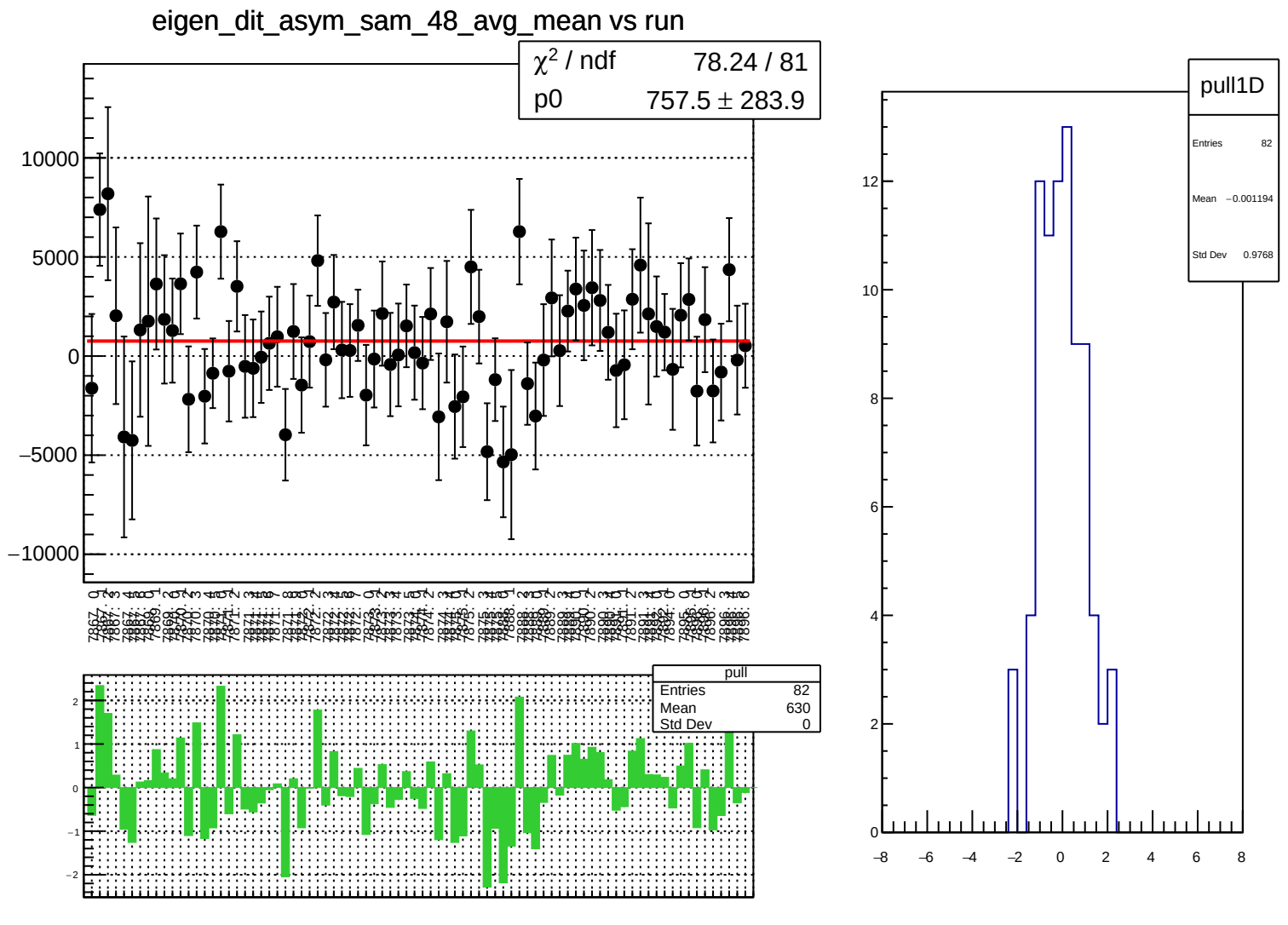

pull1D
Entries 82
Mean −0.001194
Std Dev 0.9768
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

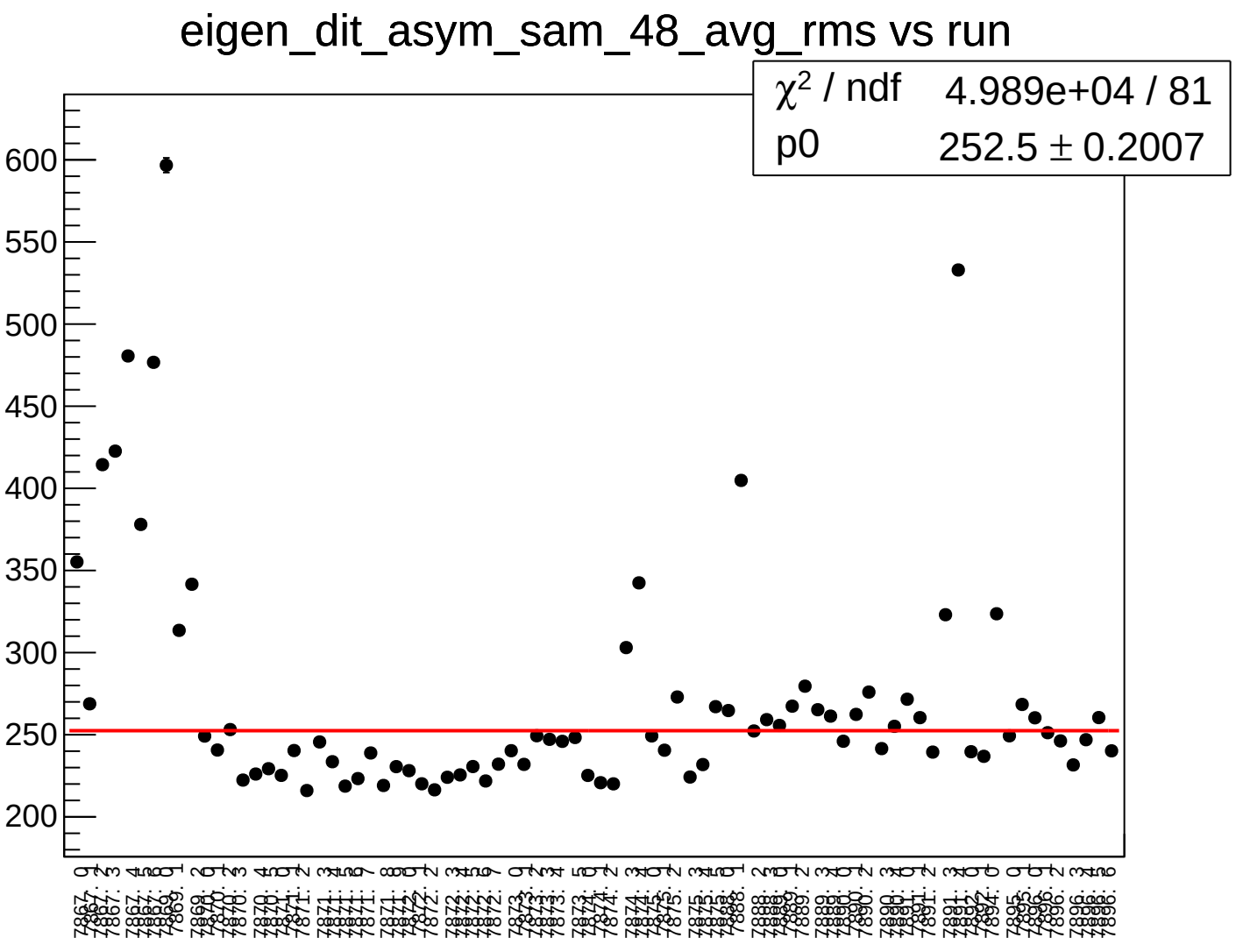

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 4.989e+04 / 81
p0 252.5 ± 0.2007
600
550
500
450
400
350
300
250
200

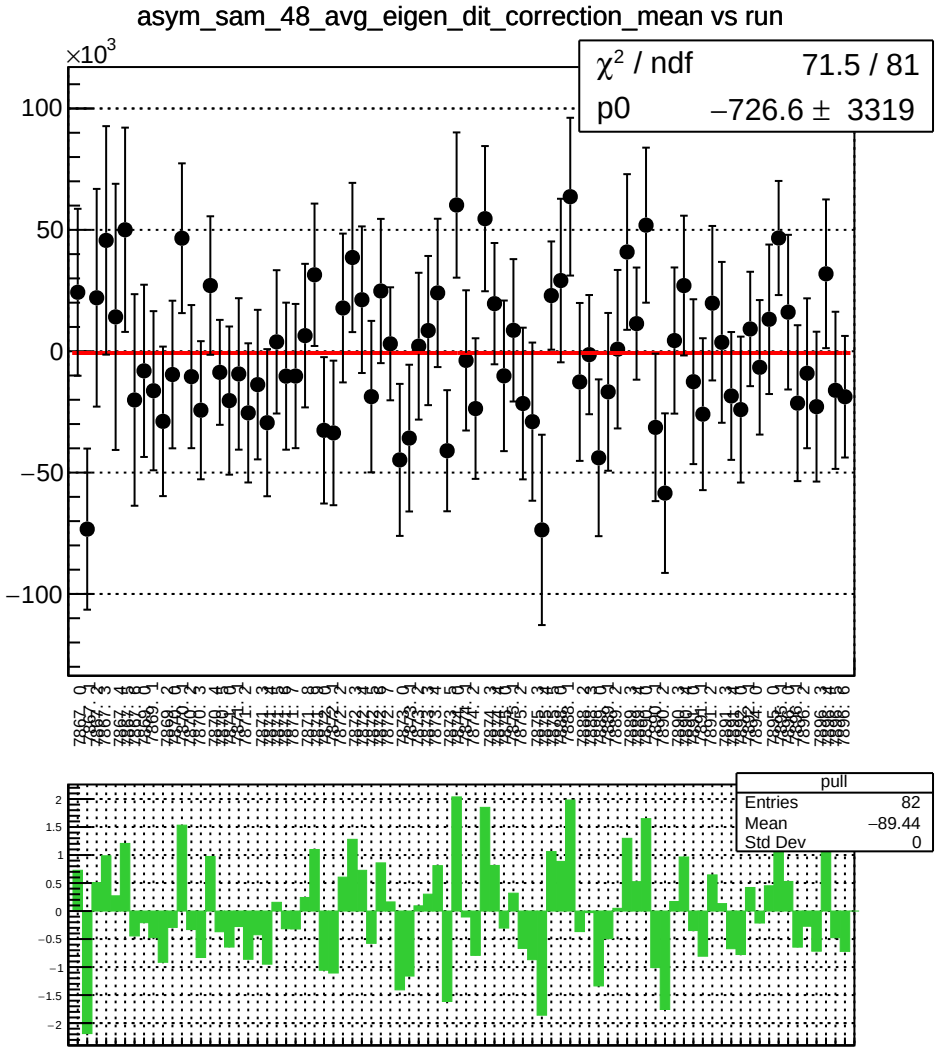

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 71.5 / 81
p0 −726.6 ± 3319
100
50
0
−50
−100
pull
Entries 82
Mean −89.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

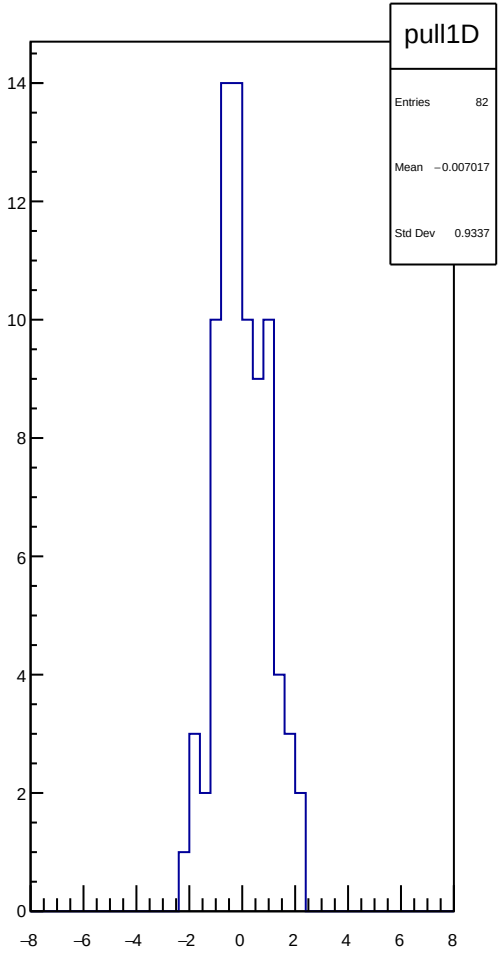

pull1D
Entries 82
Mean −0.007017
Std Dev 0.9337
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

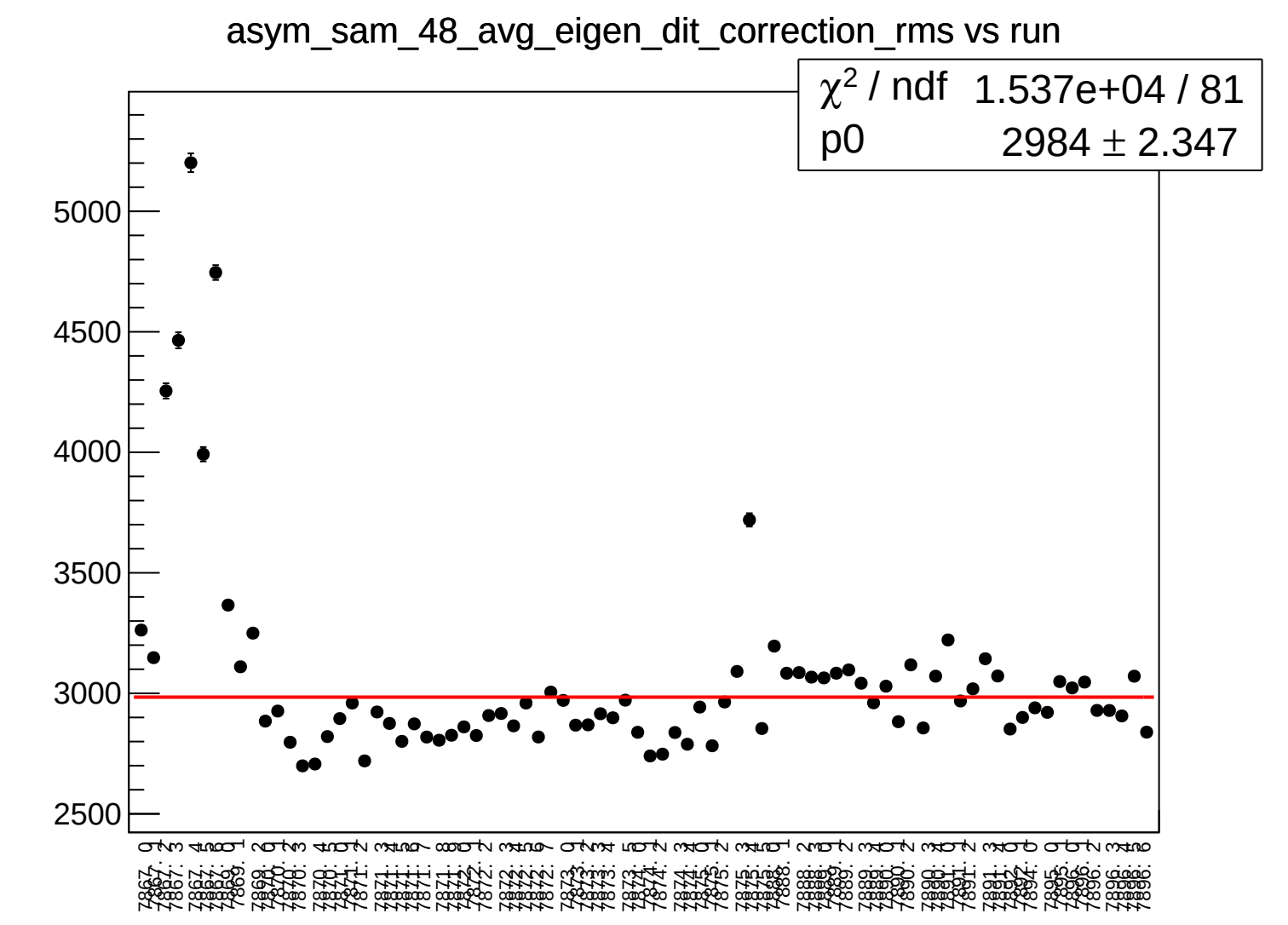

asym_sam_48_avg_dit_correction_rms vs run
χ^2 / ndf 1.537e+04 / 81
p0 2984 ± 2.347
5000
4500
4000
3500
3000
2500

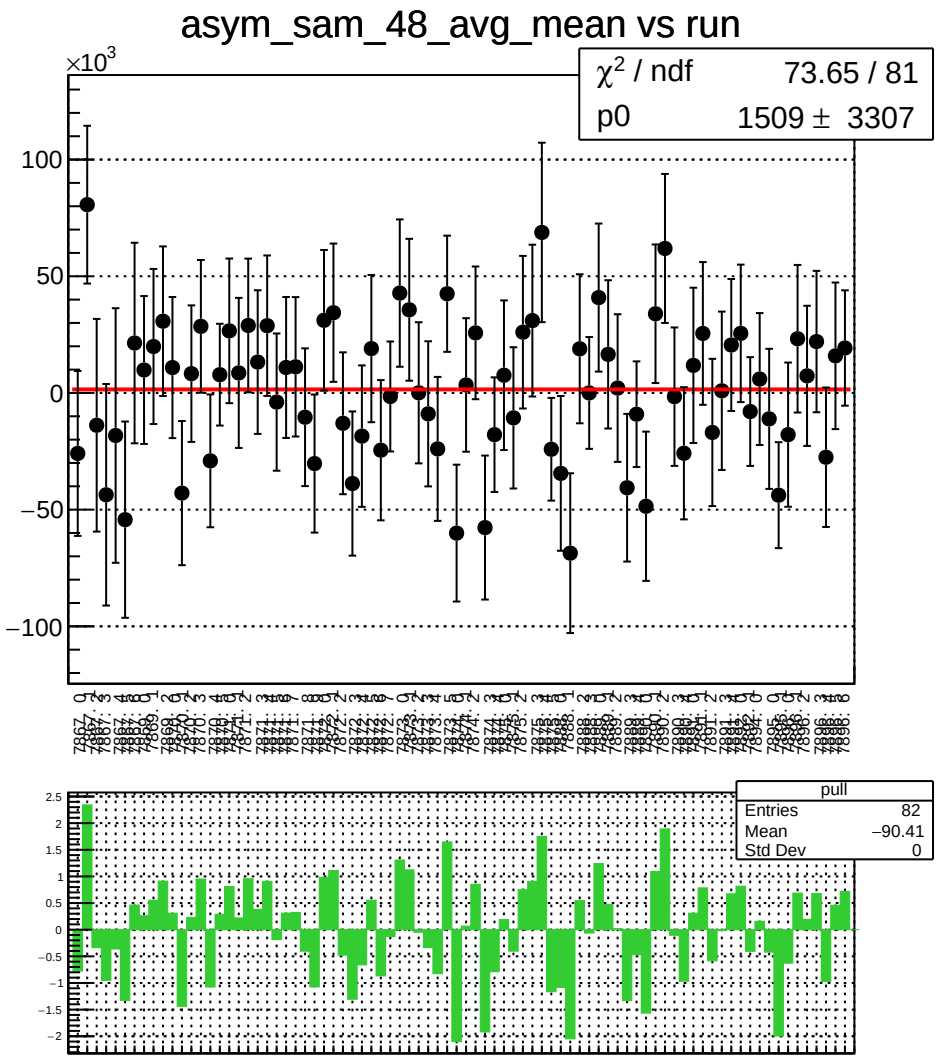

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 78.24 / 81
p0 757.5 ± 283.9
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 630
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.001194
Std Dev 0.9768
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

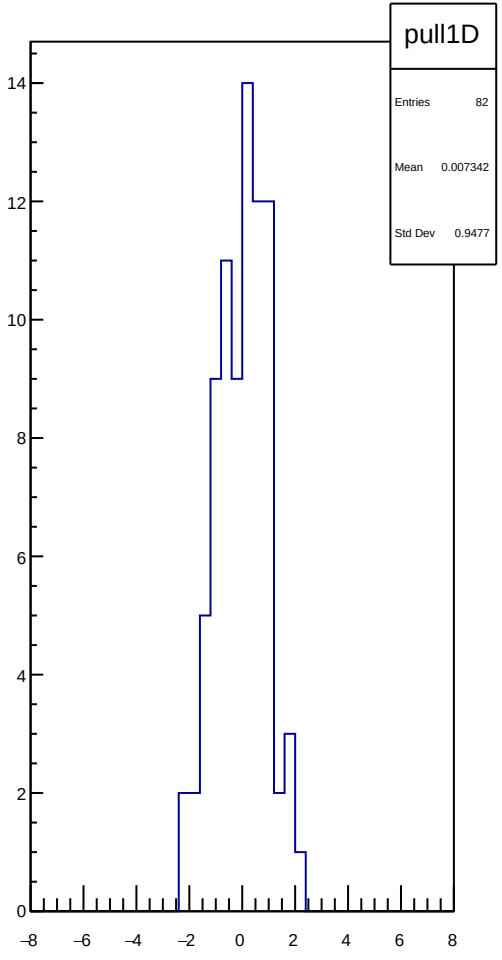

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 4.989e+04 / 81
p0 252.5 ± 0.2007
600
550
500
450
400
350
300
250
200

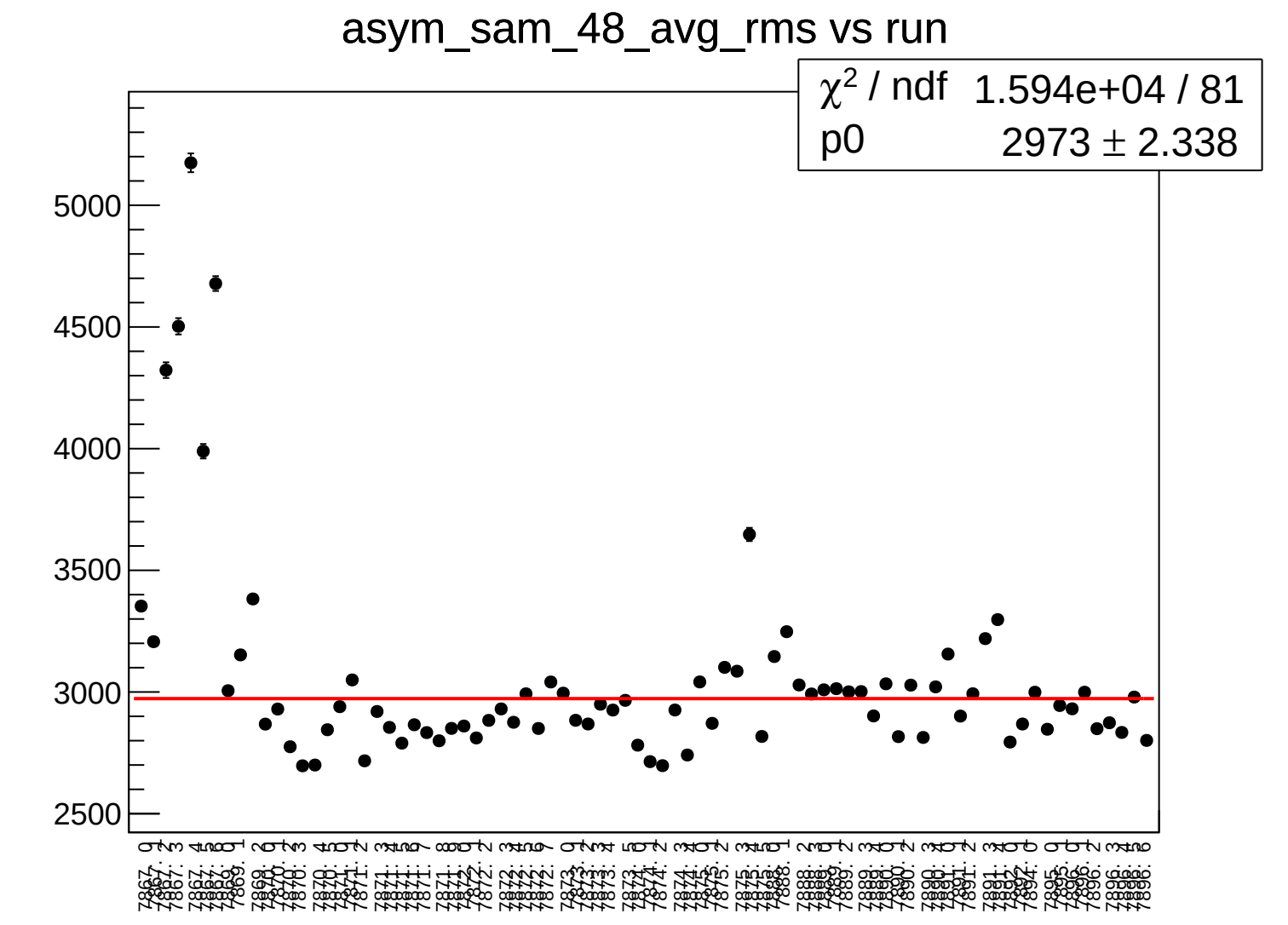

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 71.5 / 81
p0 −726.6 ± 3319
pull
Entries 82
Mean −89.44
Std Dev 0

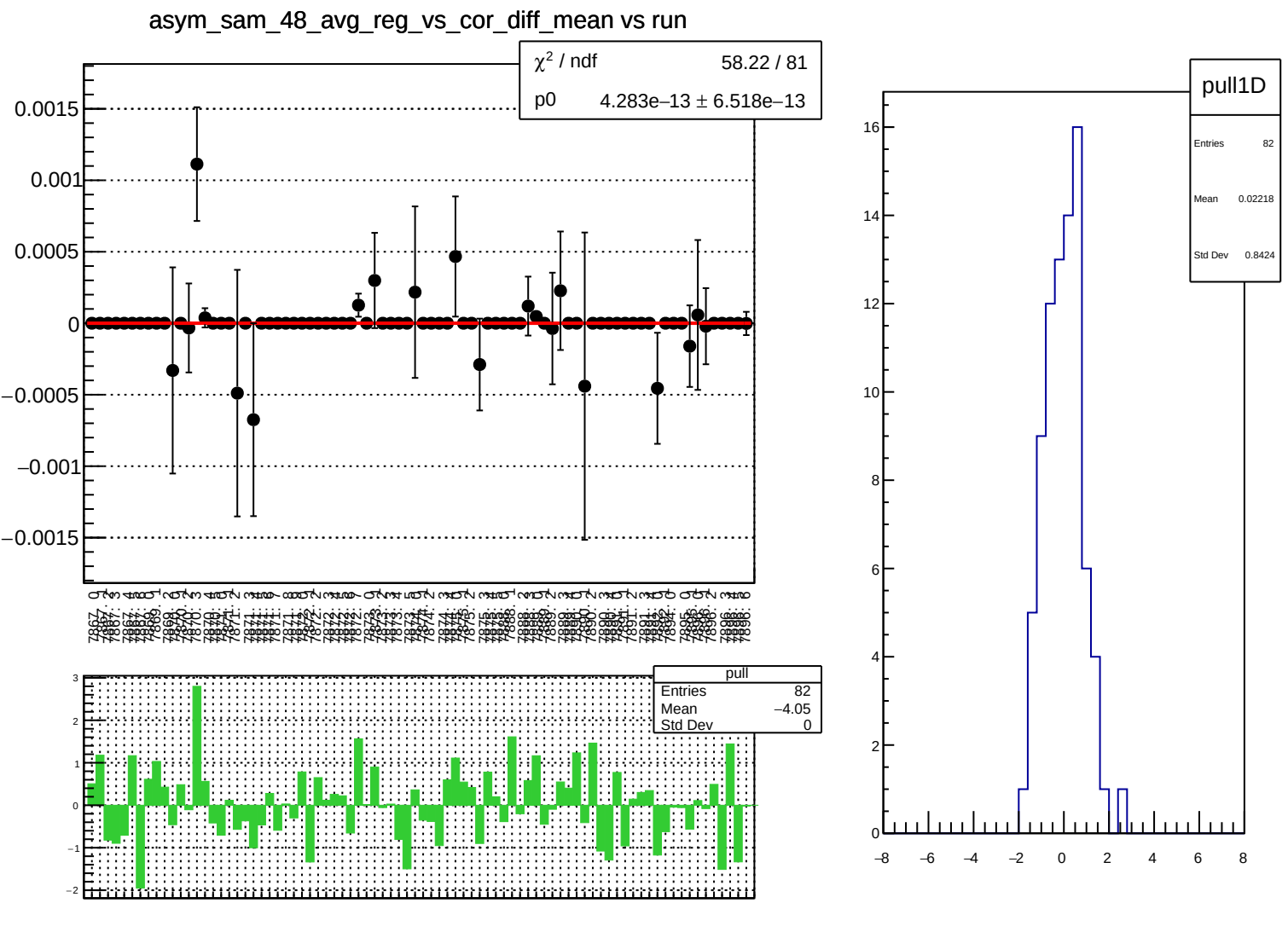

pull1D
Entries 82
Mean −0.007017
Std Dev 0.9337

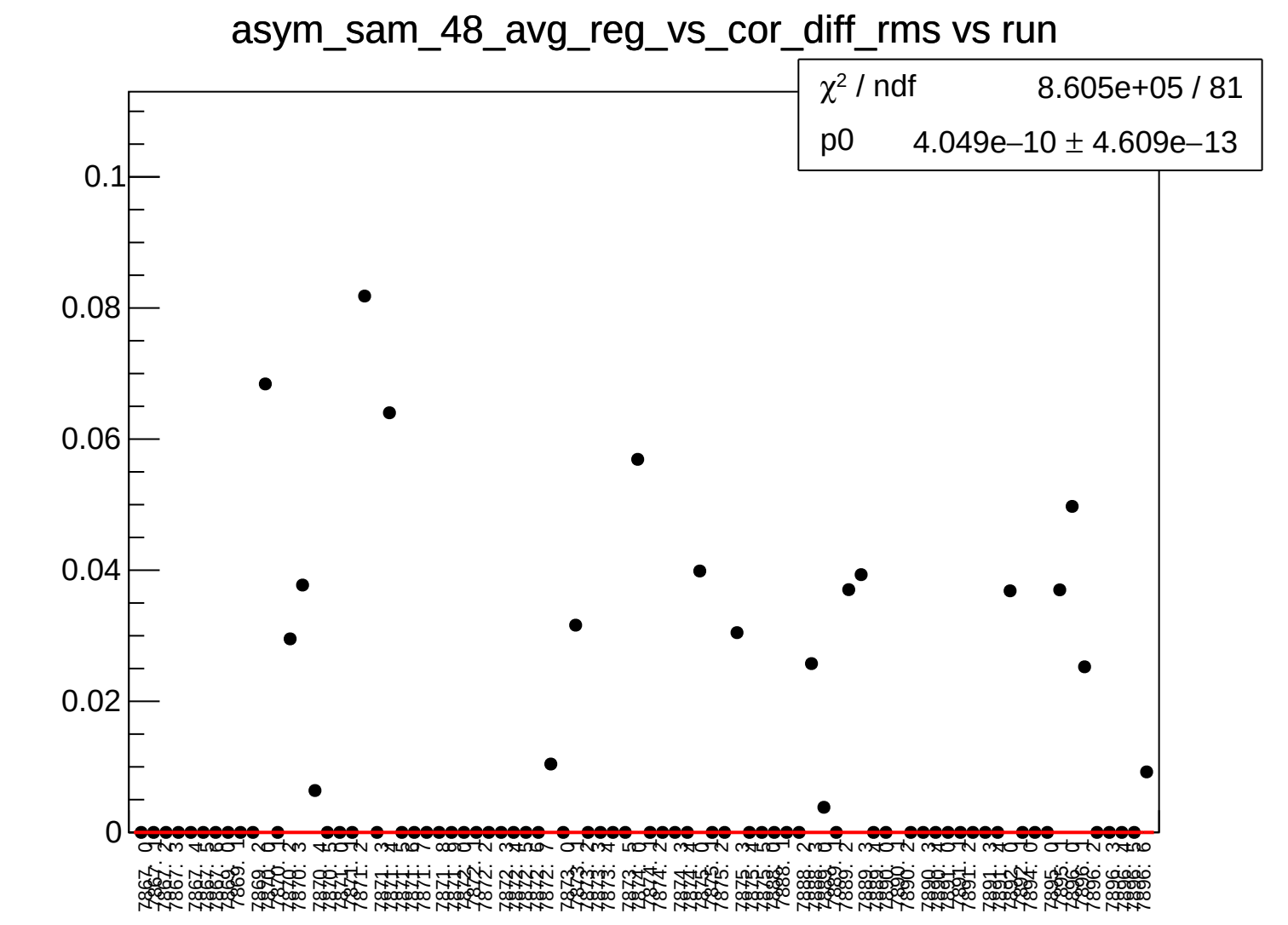

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.537e+04 / 81
p0 2984 ± 2.347
5000
4500
4000
3500
3000
2500

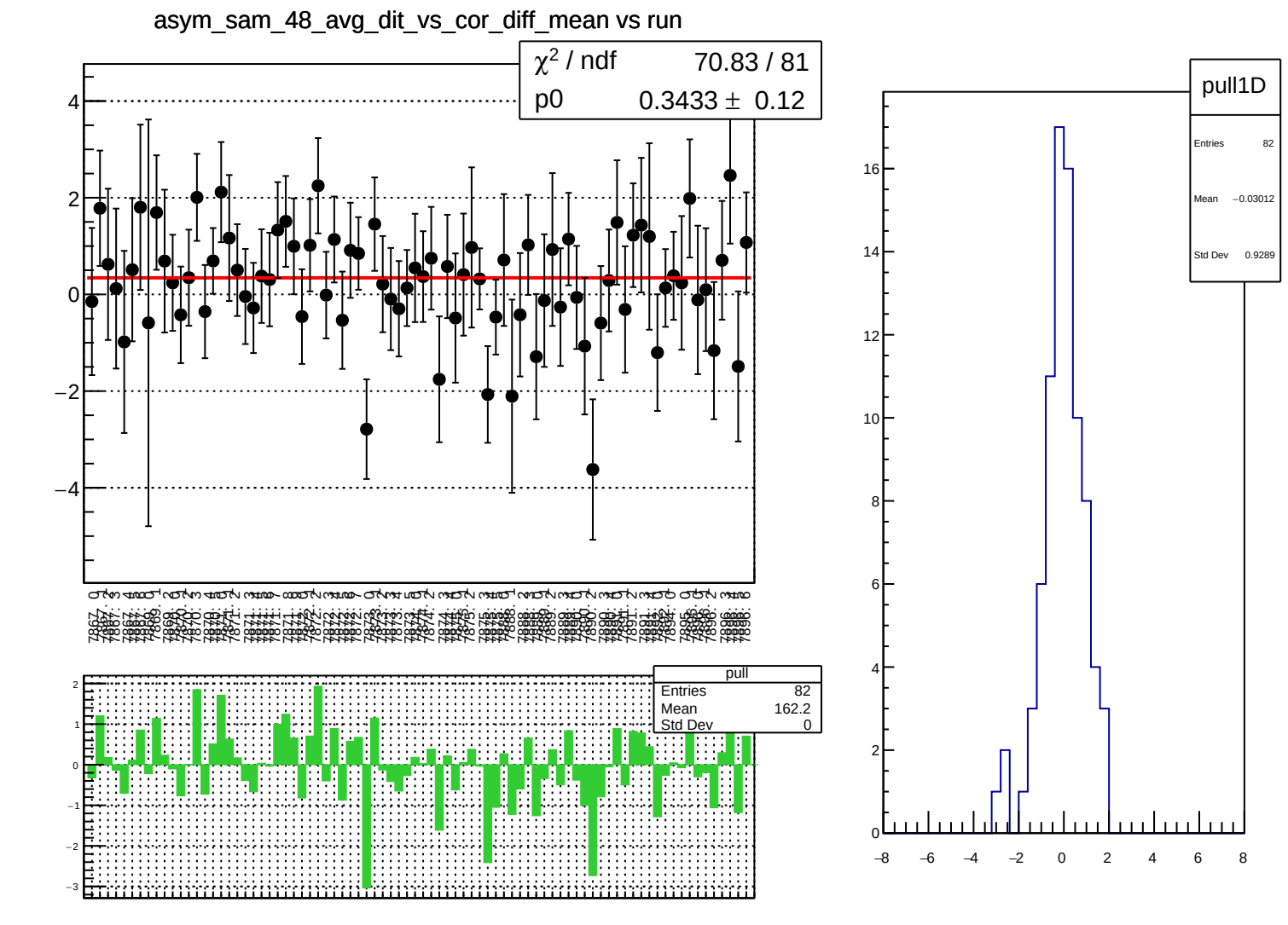

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 73.65 / 81
p0 1509 ± 3307
100
50
0
−50
−100
pull
Entries 82
Mean −90.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

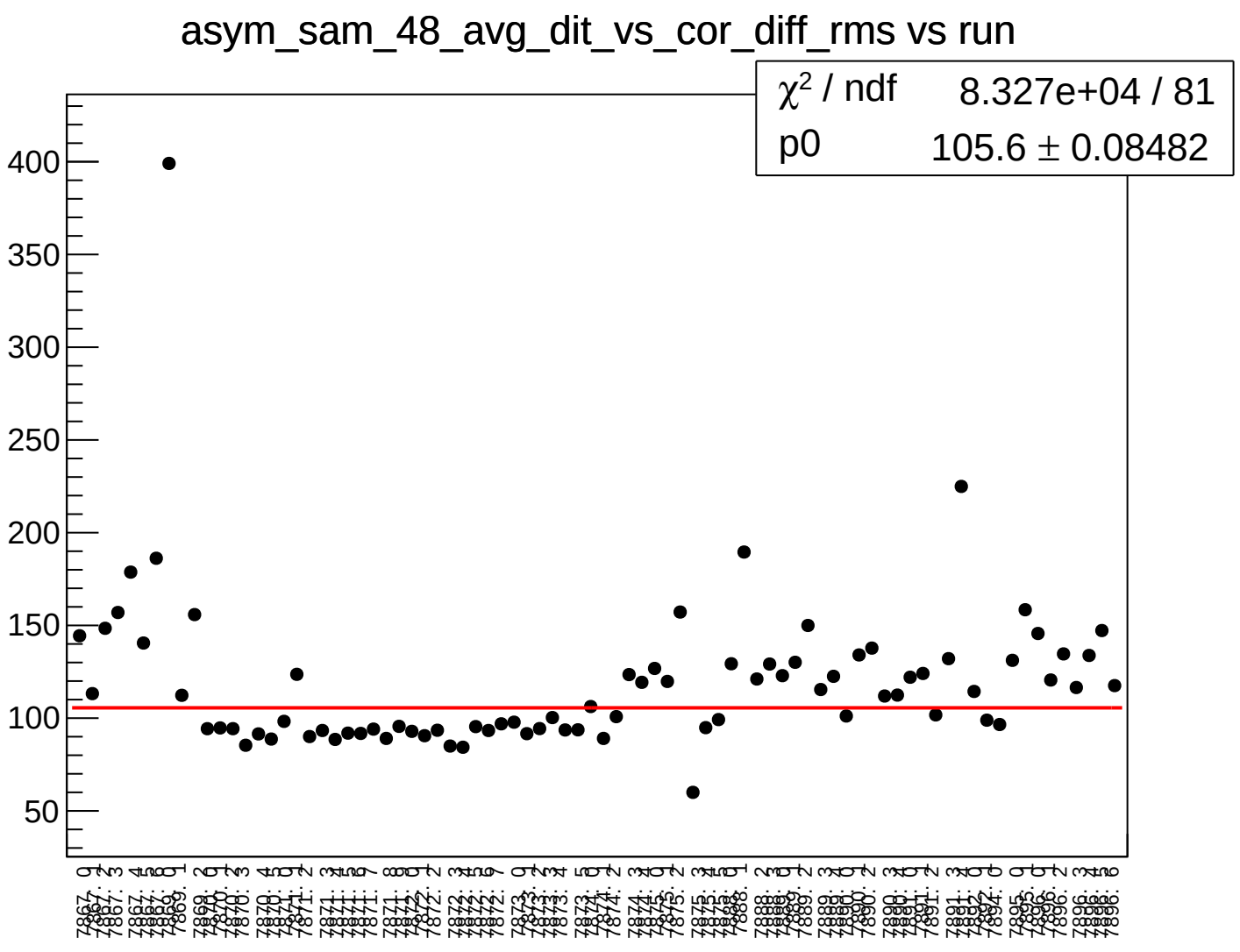

pull1D
Entries 82
Mean 0.007342
Std Dev 0.9477
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

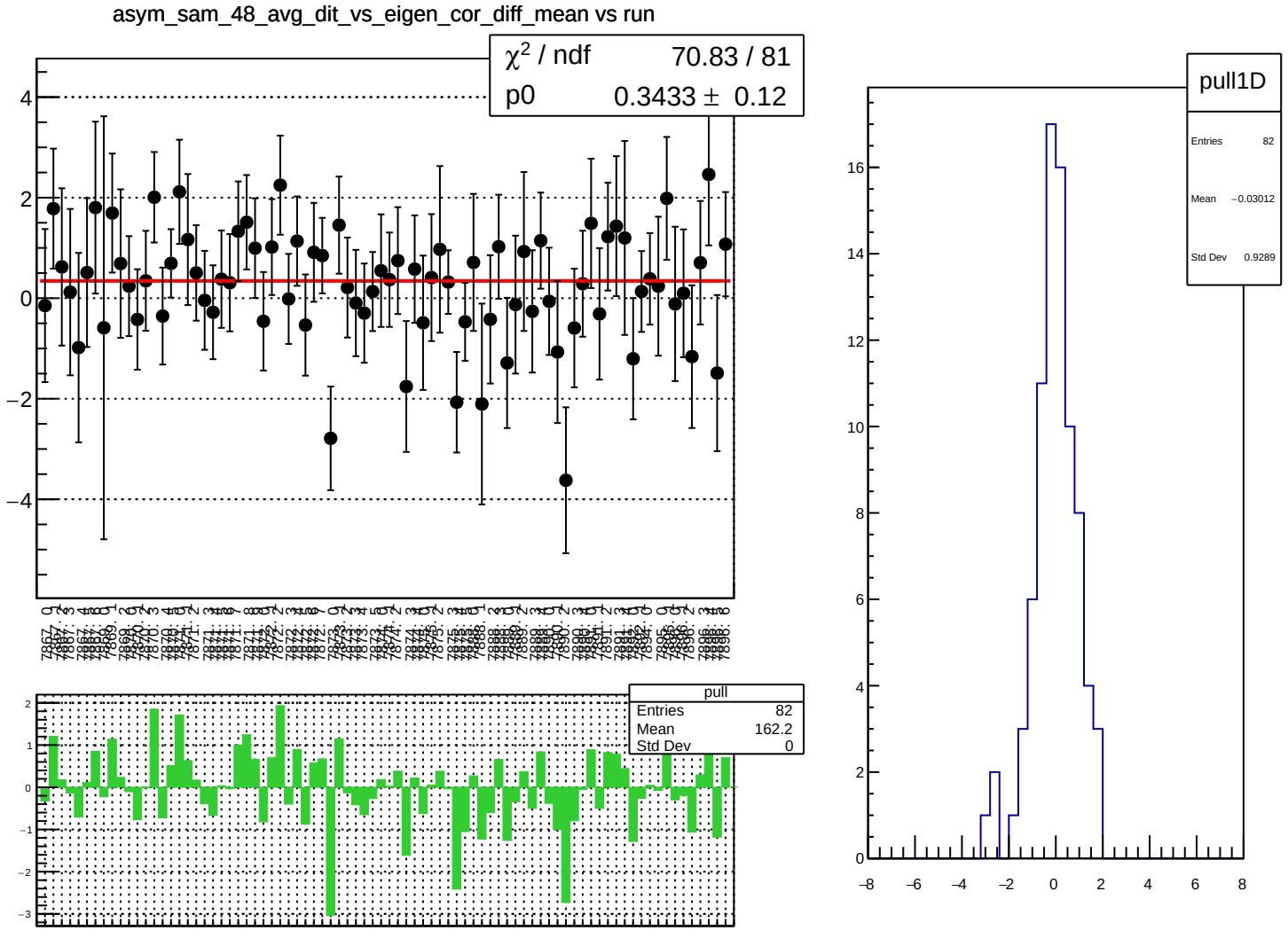

asym_sam_48_avg_rms vs run
χ² / ndf 1.594e+04 / 81
p0 2973 ± 2.338
5000
4500
4000
3500
3000
2500

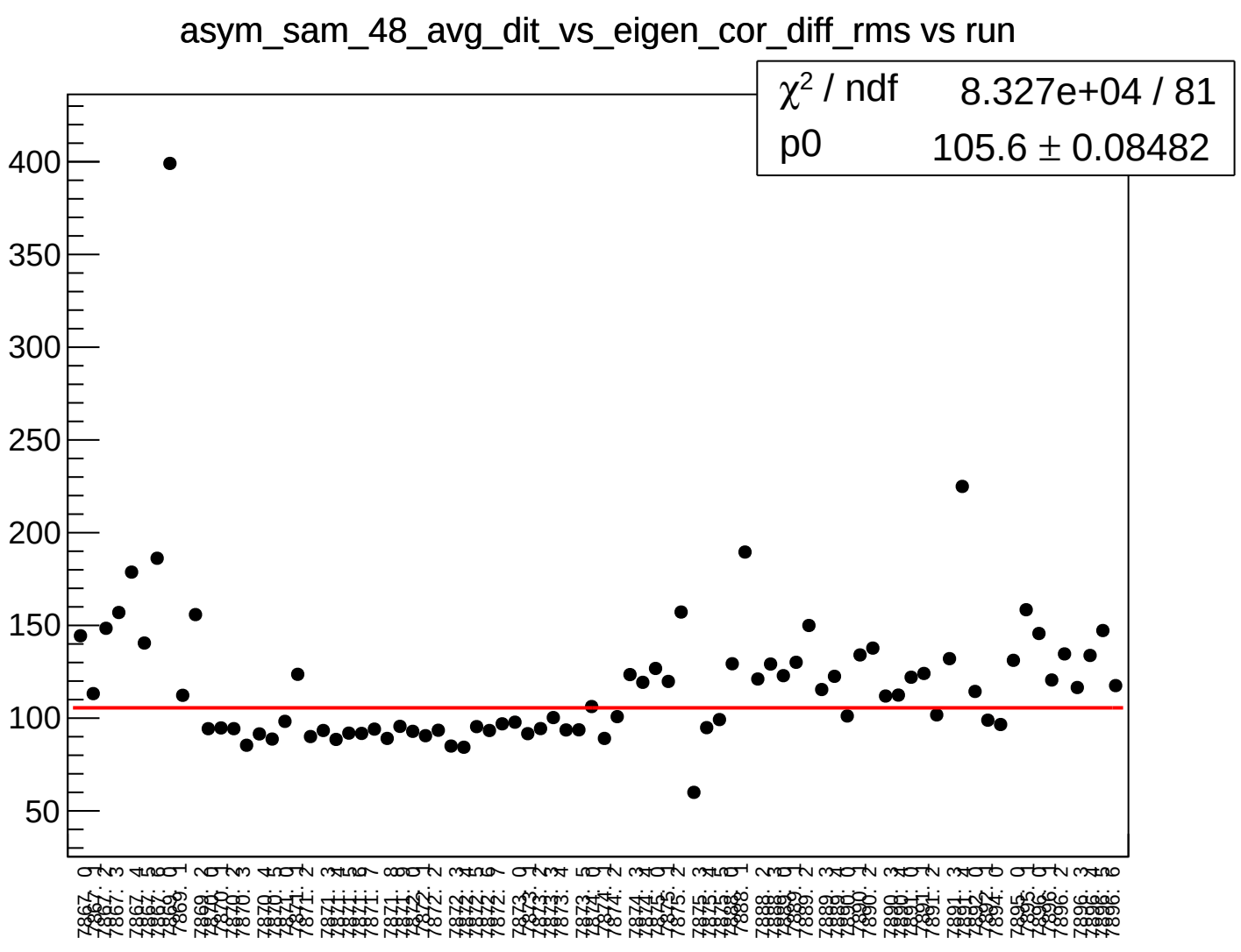

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 58.22 / 81
p0 4.283e−13 ± 6.518e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean −4.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.02218
Std Dev 0.8424
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

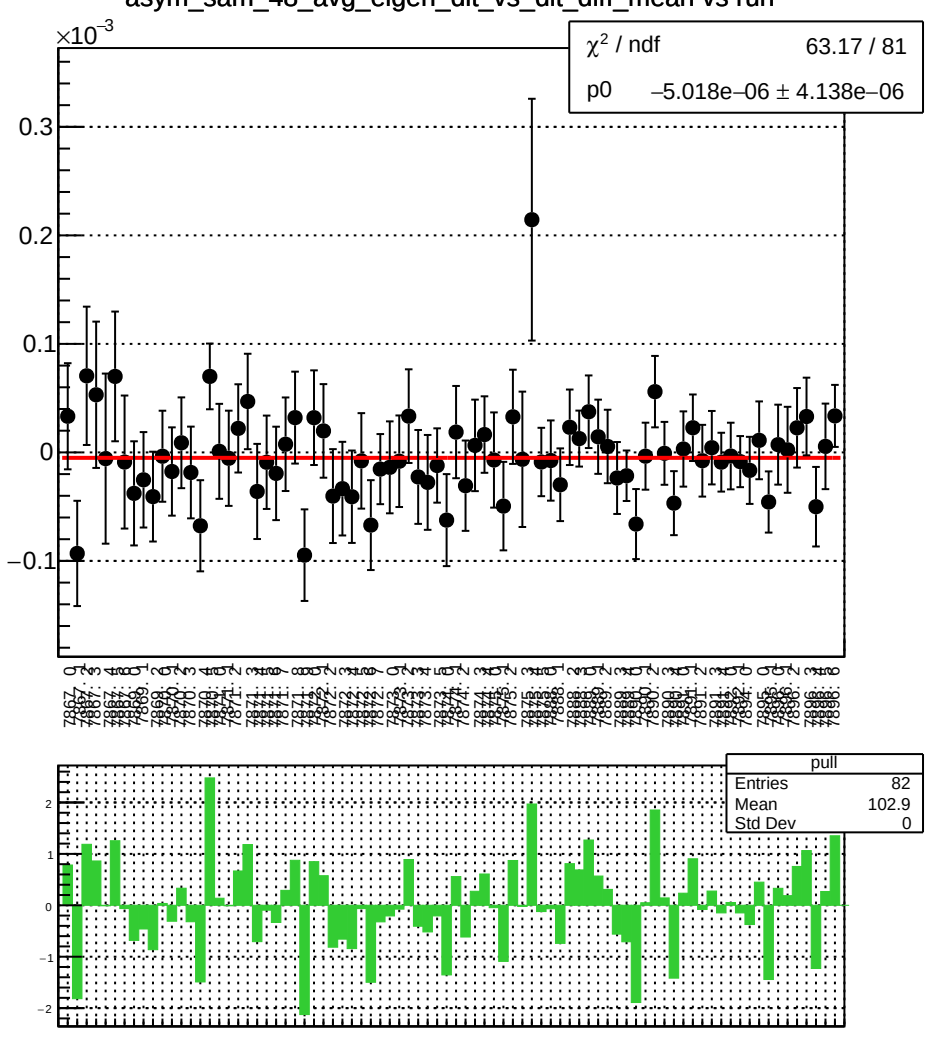

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.605e+05 / 81
p0 4.049e−10 ± 4.609e−13
0.1
0.08
0.06
0.04
0.02
0

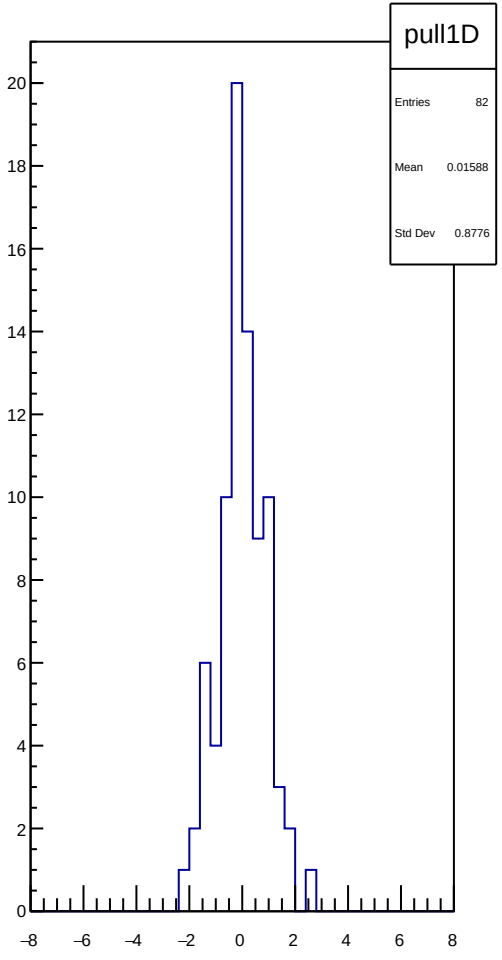

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.83 / 81
p0 0.3433 ± 0.12
pull
Entries 82
Mean 162.2
Std Dev 0
pull1D
Entries 82
Mean −0.03012
Std Dev 0.9289

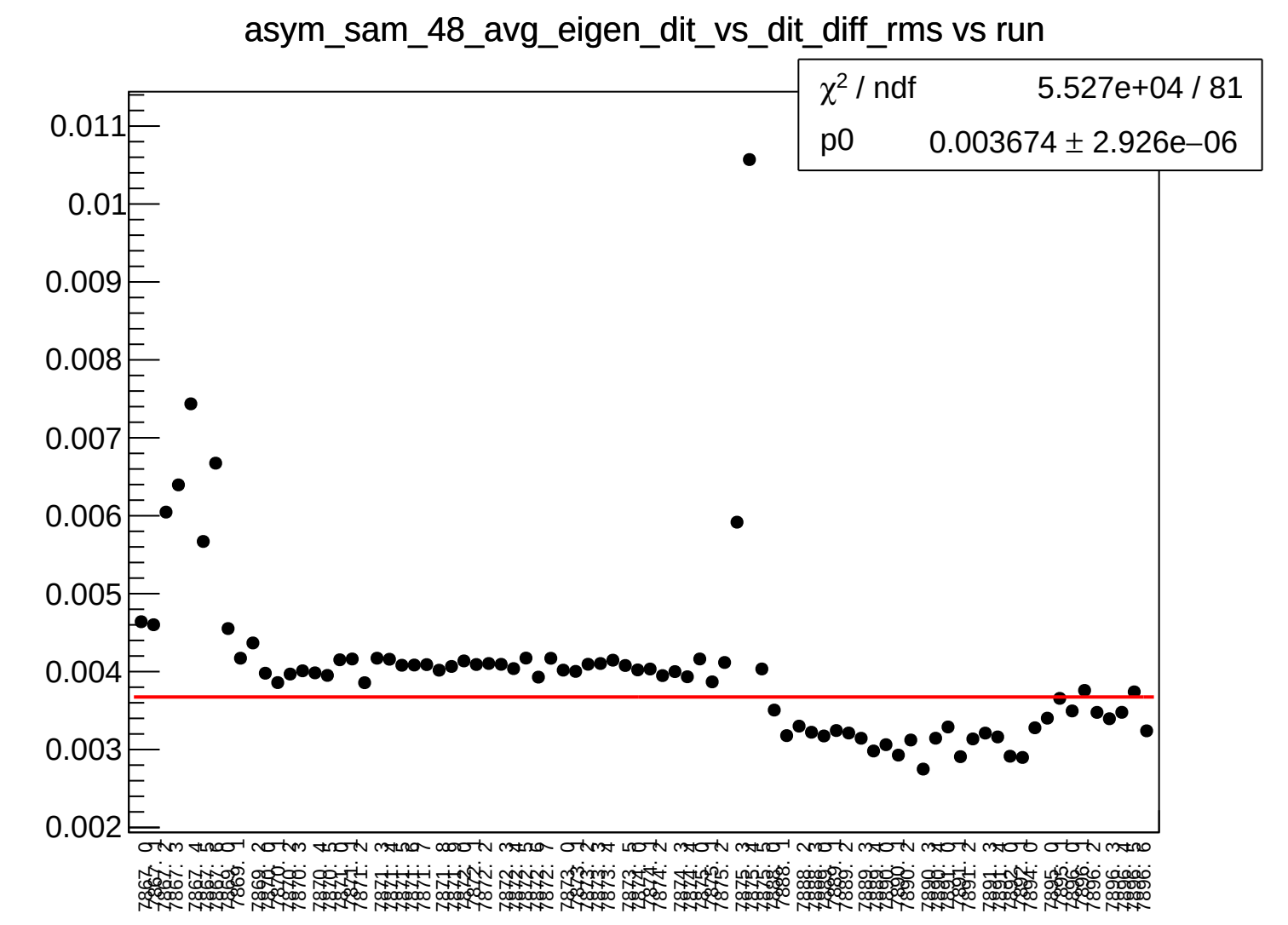

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.327e+04 / 81
p0 105.6 ± 0.08482
400
350
300
250
200
150
100
50

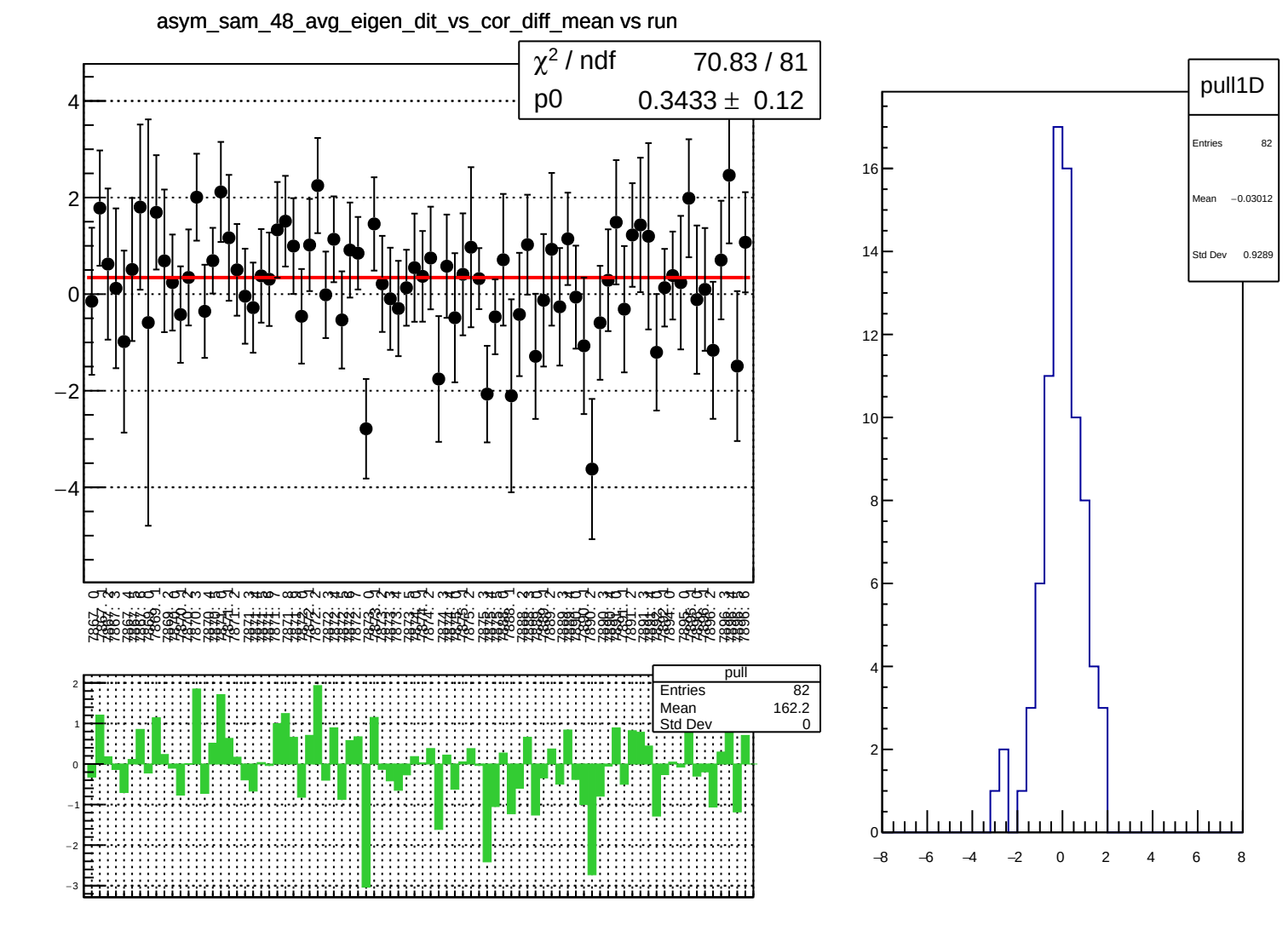

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.83 / 81
p0 0.3433 ± 0.12
pull
Entries 82
Mean 162.2
Std Dev 0
pull1D
Entries 82
Mean −0.03012
Std Dev 0.9289

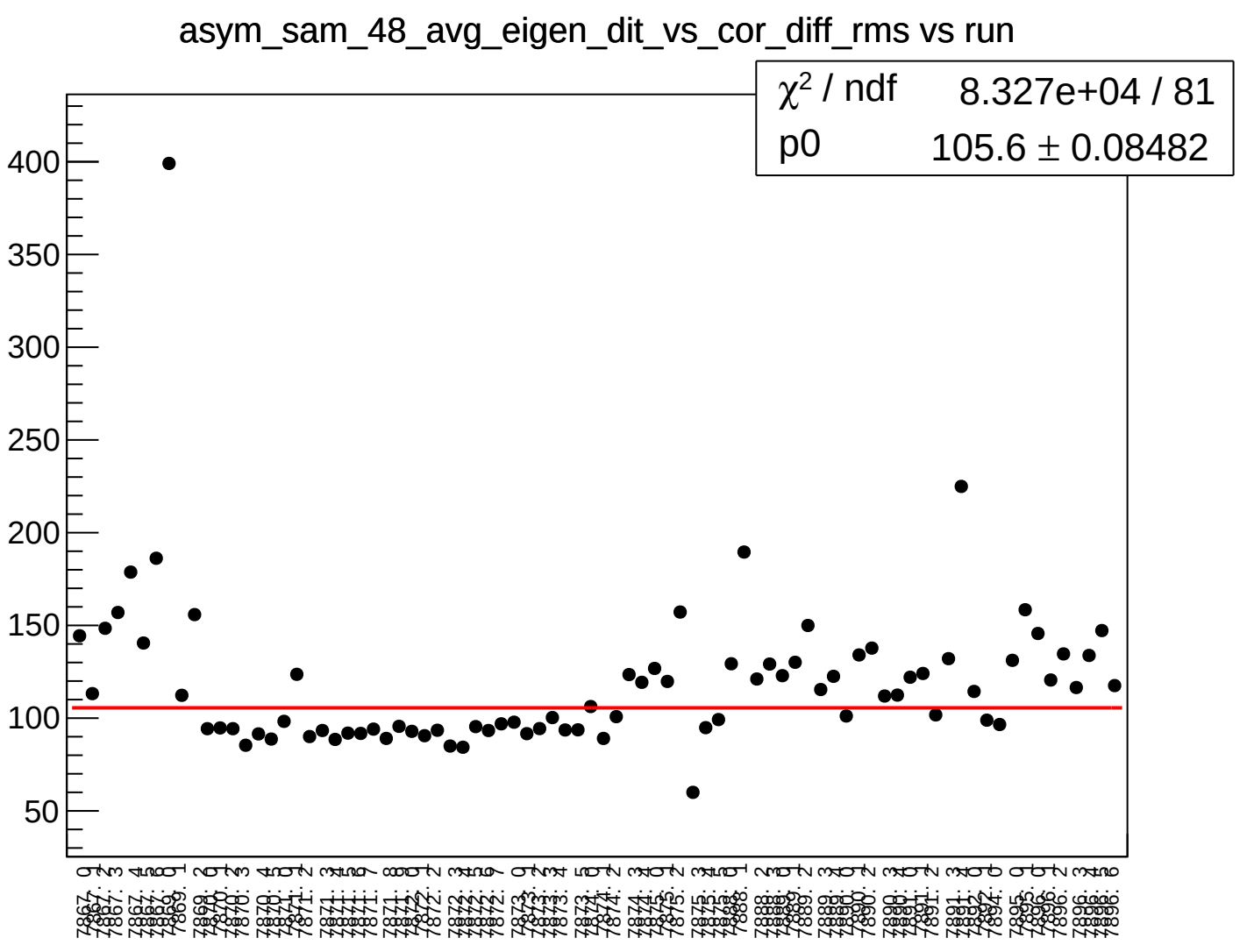

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.327e+04 / 81
p0 105.6 ± 0.08482
400
350
300
250
200
150
100
50

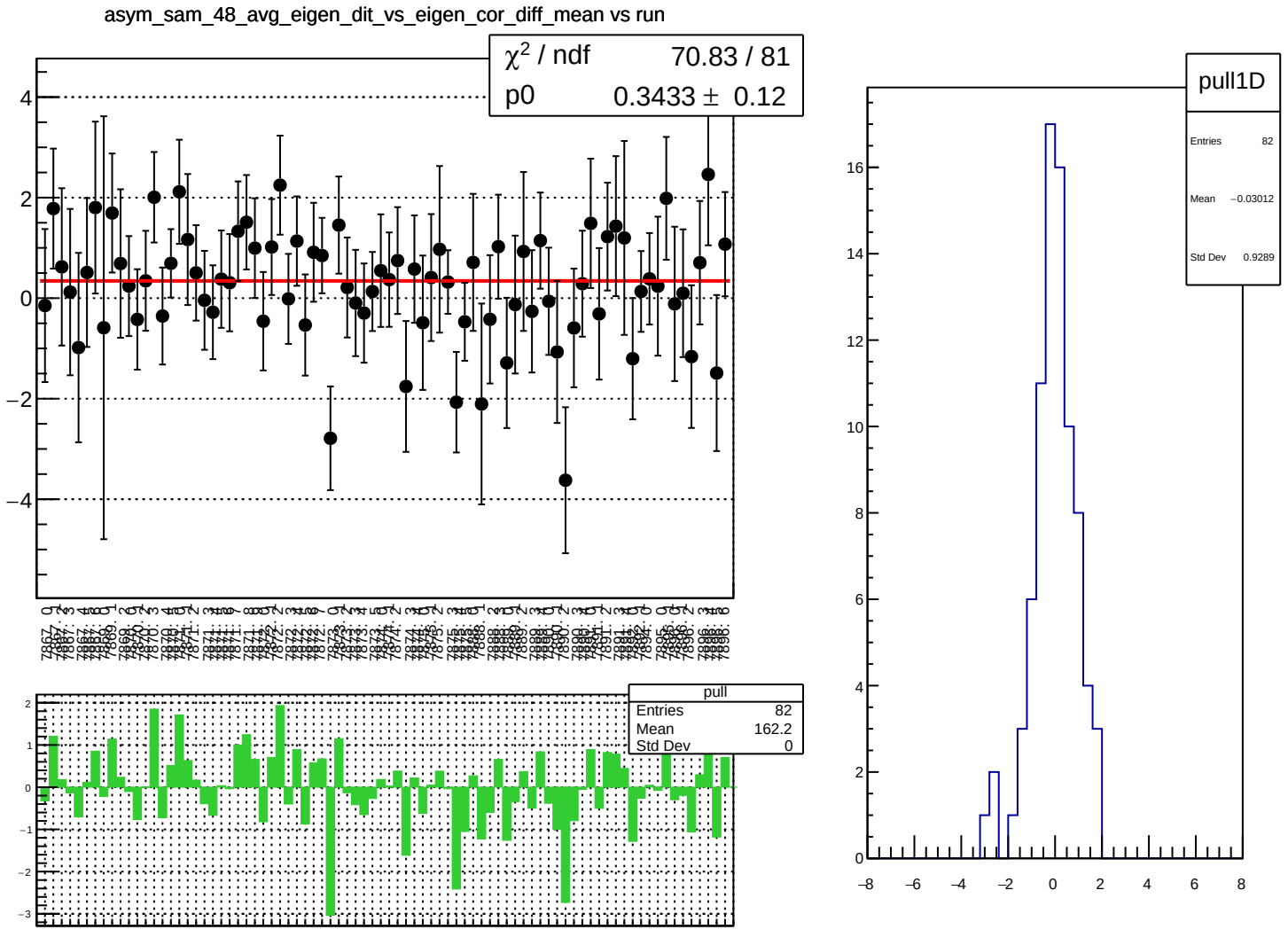

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.17 / 81
p0 −5.018e−06 ± 4.138e−06
0.3
0.2
0.1
0
−0.1
pull
Entries 82
Mean 102.9
Std Dev 0
2
1
0
−1
−2

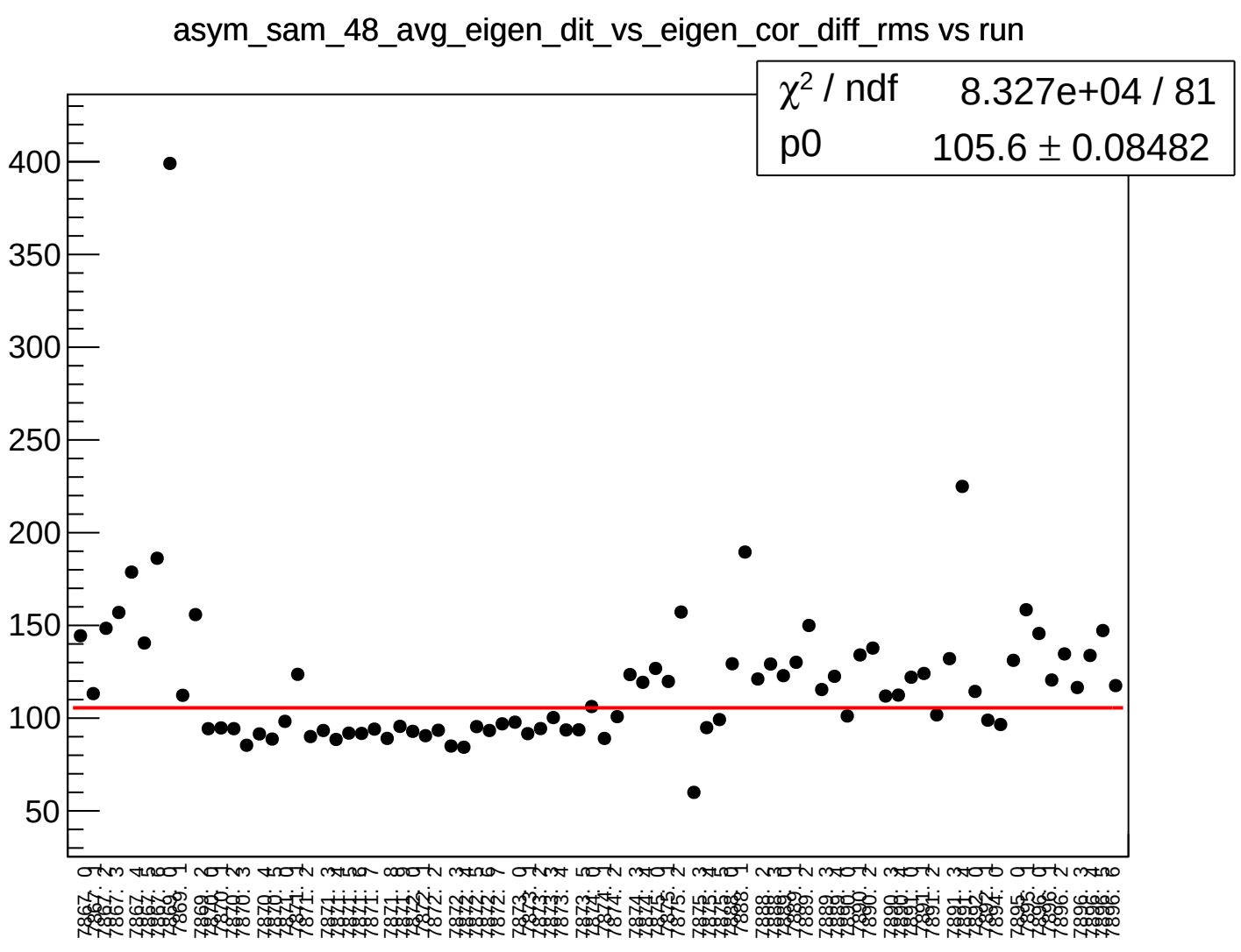

pull1D
Entries 82
Mean 0.01588
Std Dev 0.8776
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

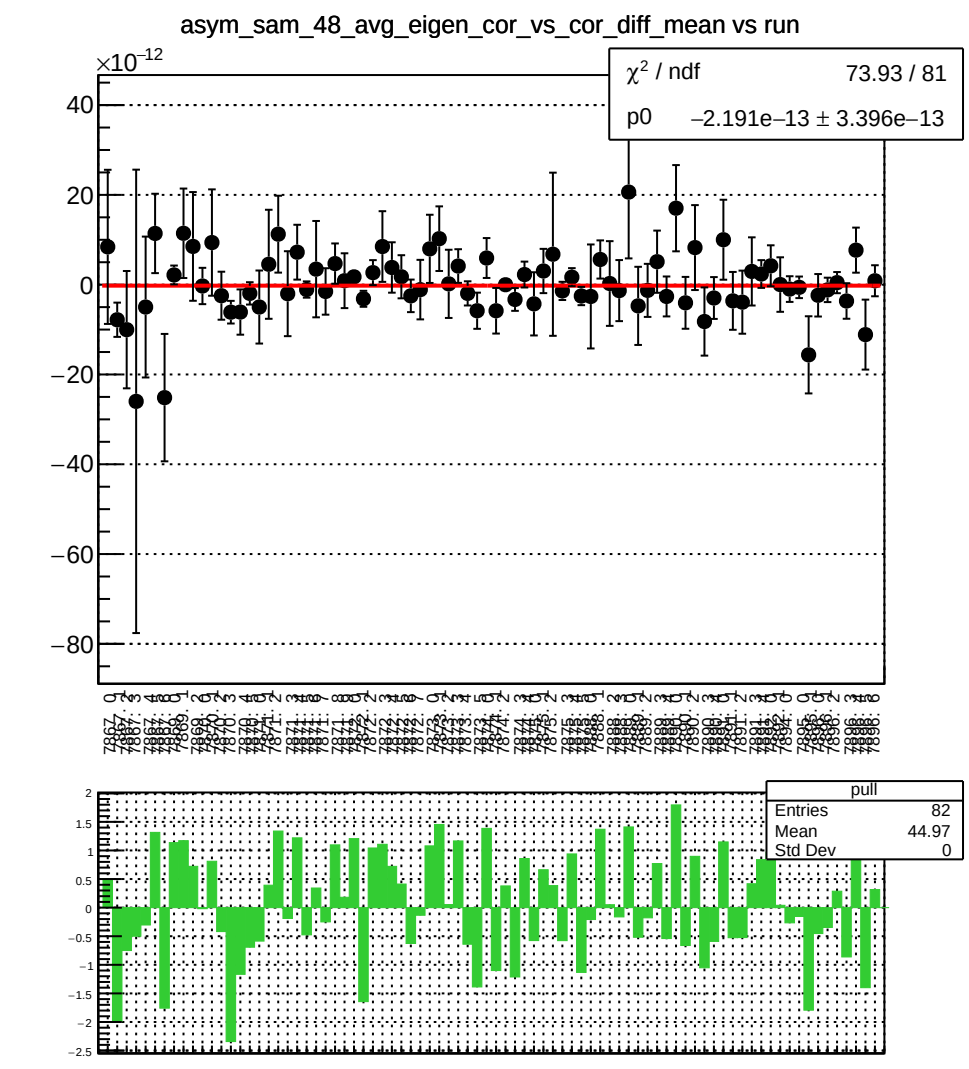

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.527e+04 / 81
p0 0.003674 ± 2.926e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

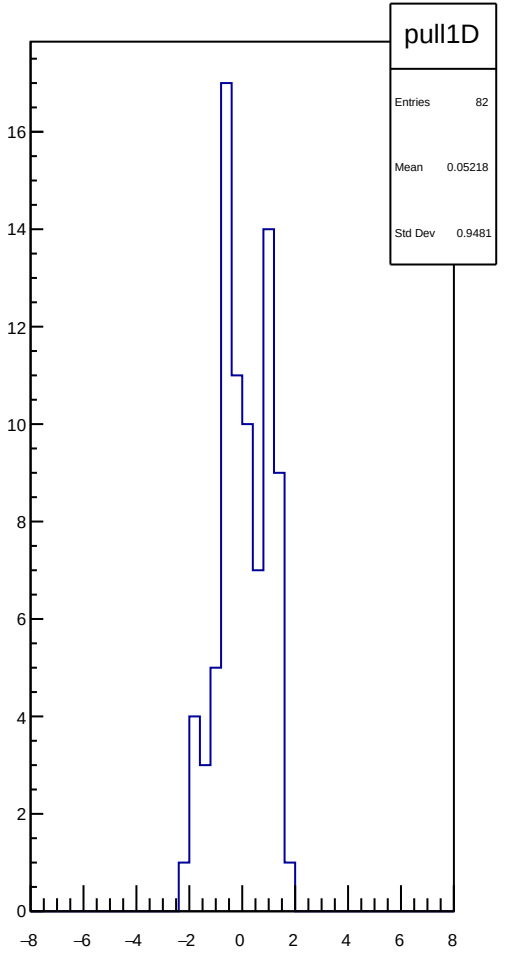

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.83 / 81
p0 0.3433 ± 0.12
pull
Entries 82
Mean 162.2
Std Dev 0
pull1D
Entries 82
Mean −0.03012
Std Dev 0.9289

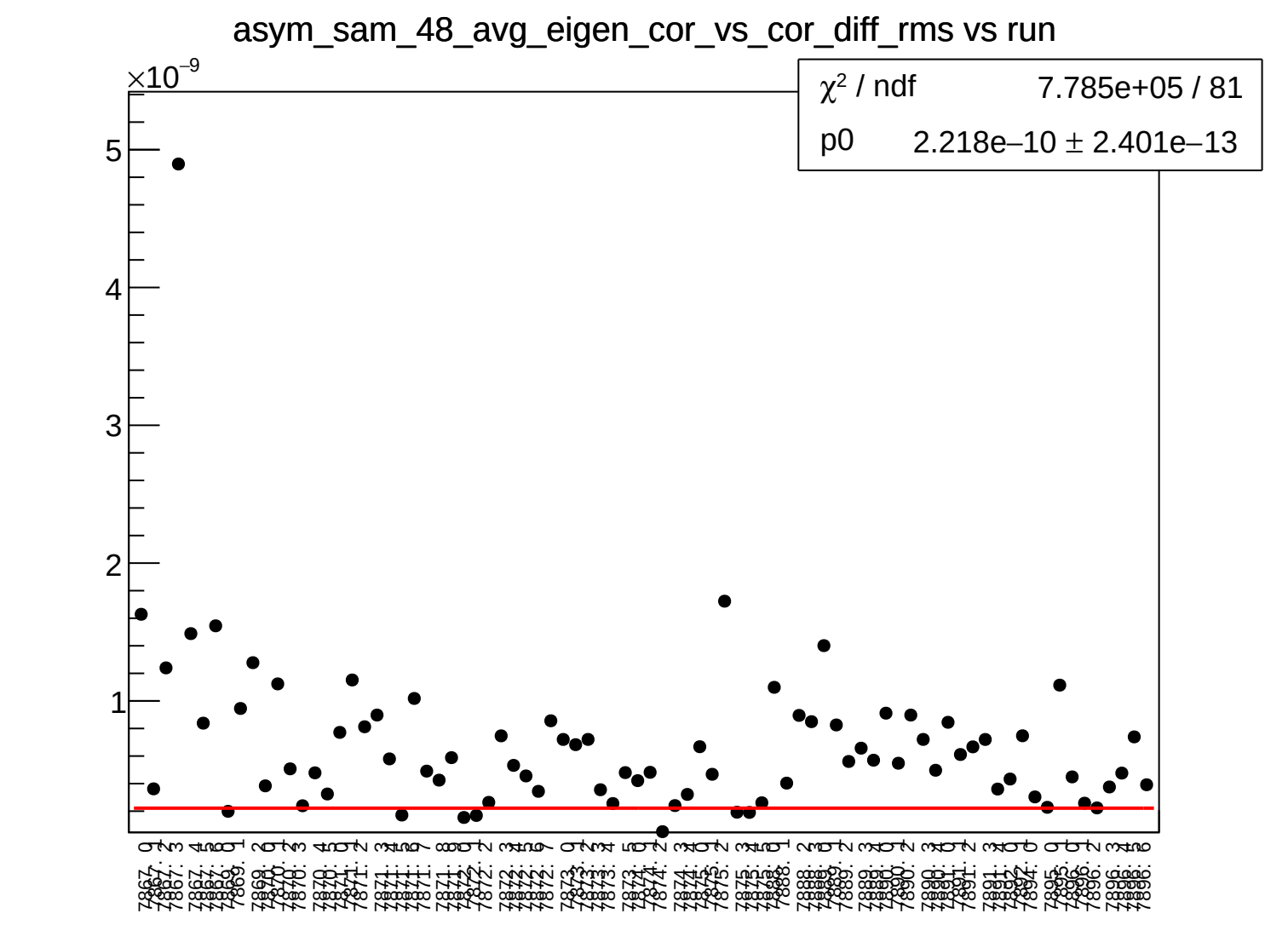

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.327e+04 / 81
p0 105.6 ± 0.08482
400
350
300
250
200
150
100
50

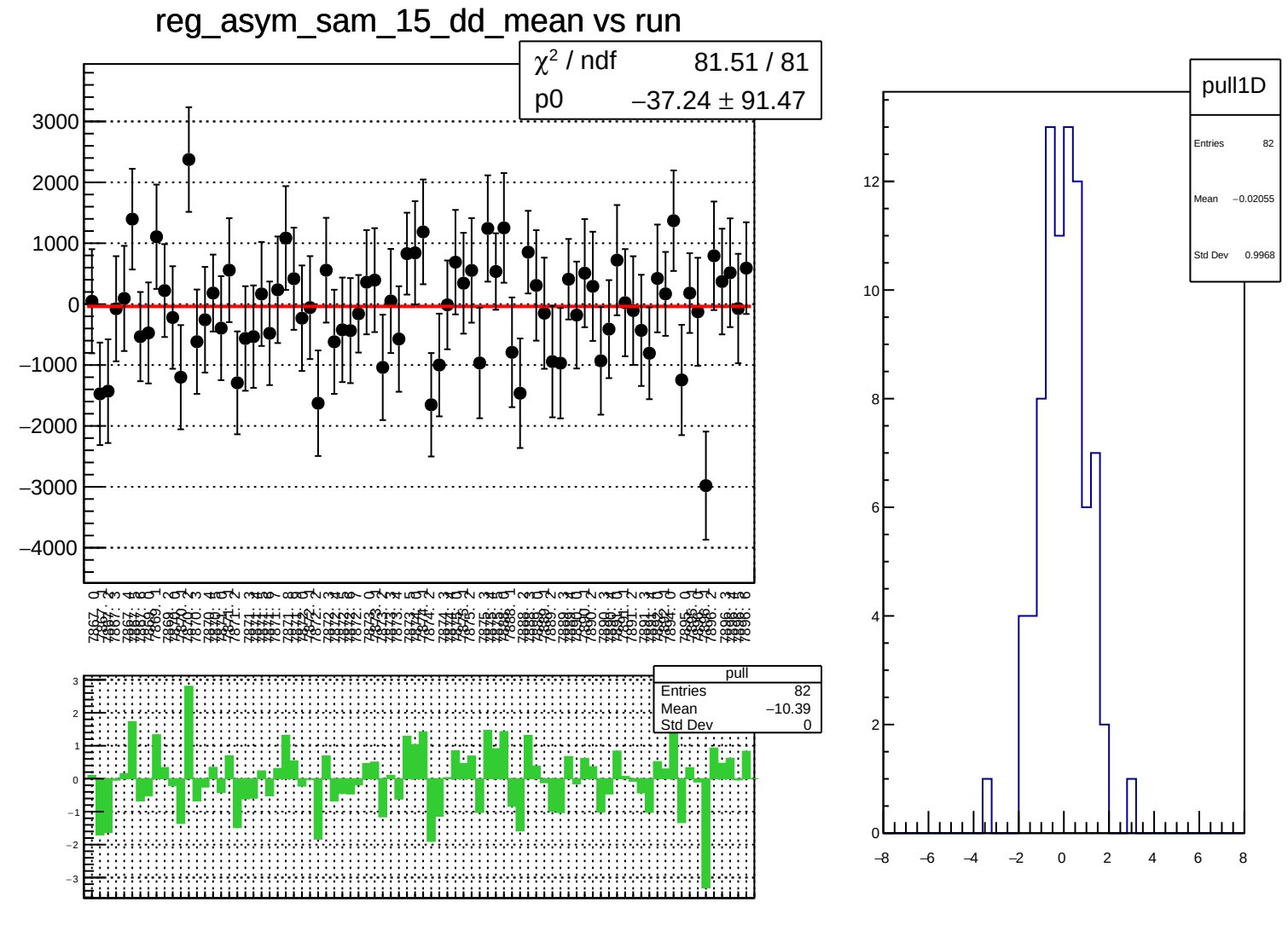

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.83 / 81
p0 0.3433 ± 0.12
pull
Entries 82
Mean 162.2
Std Dev 0
pull1D
Entries 82
Mean −0.03012
Std Dev 0.9289

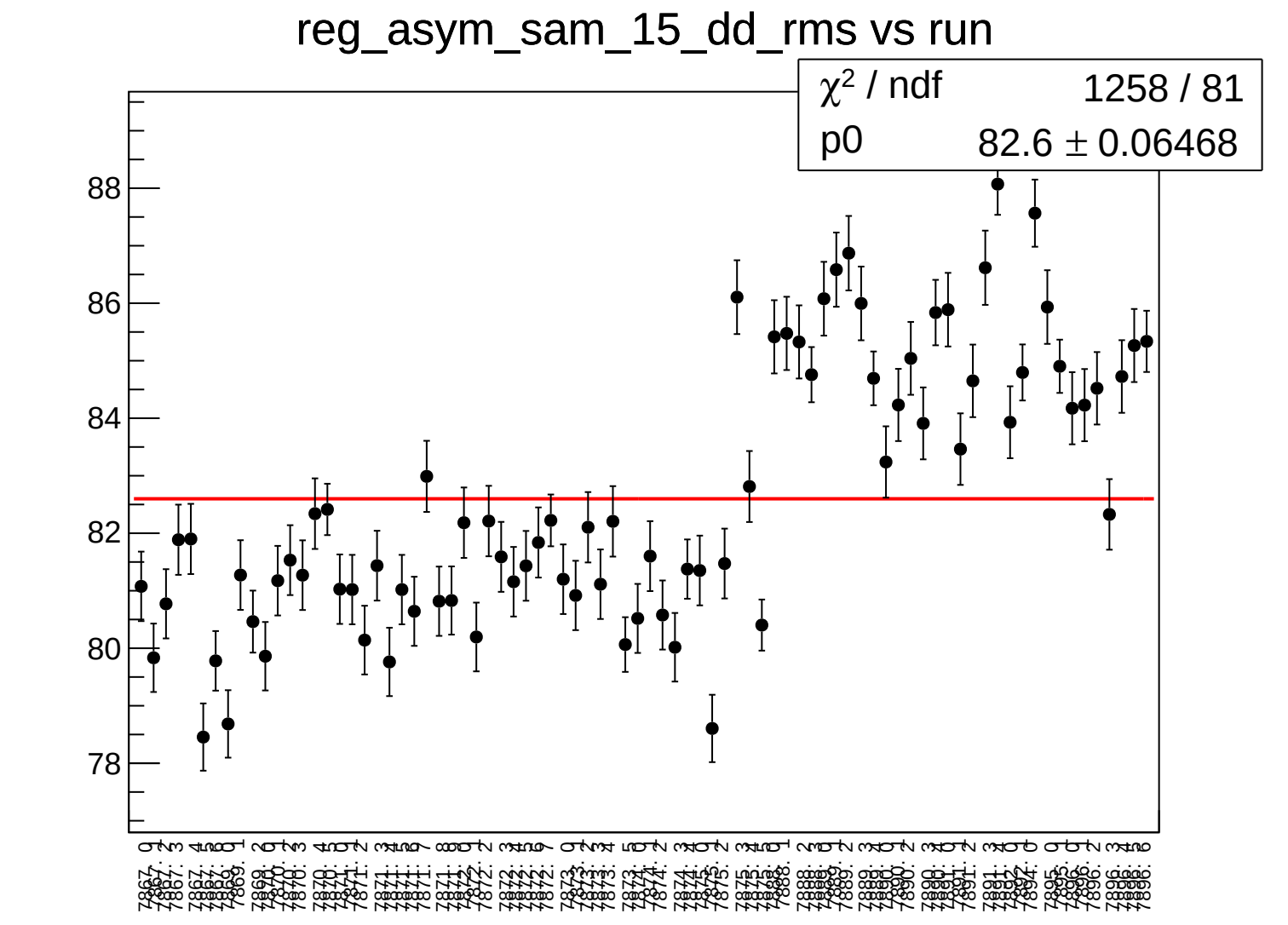

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.327e+04 / 81
p0 105.6 ± 0.08482
400
350
300
250
200
150
100
50

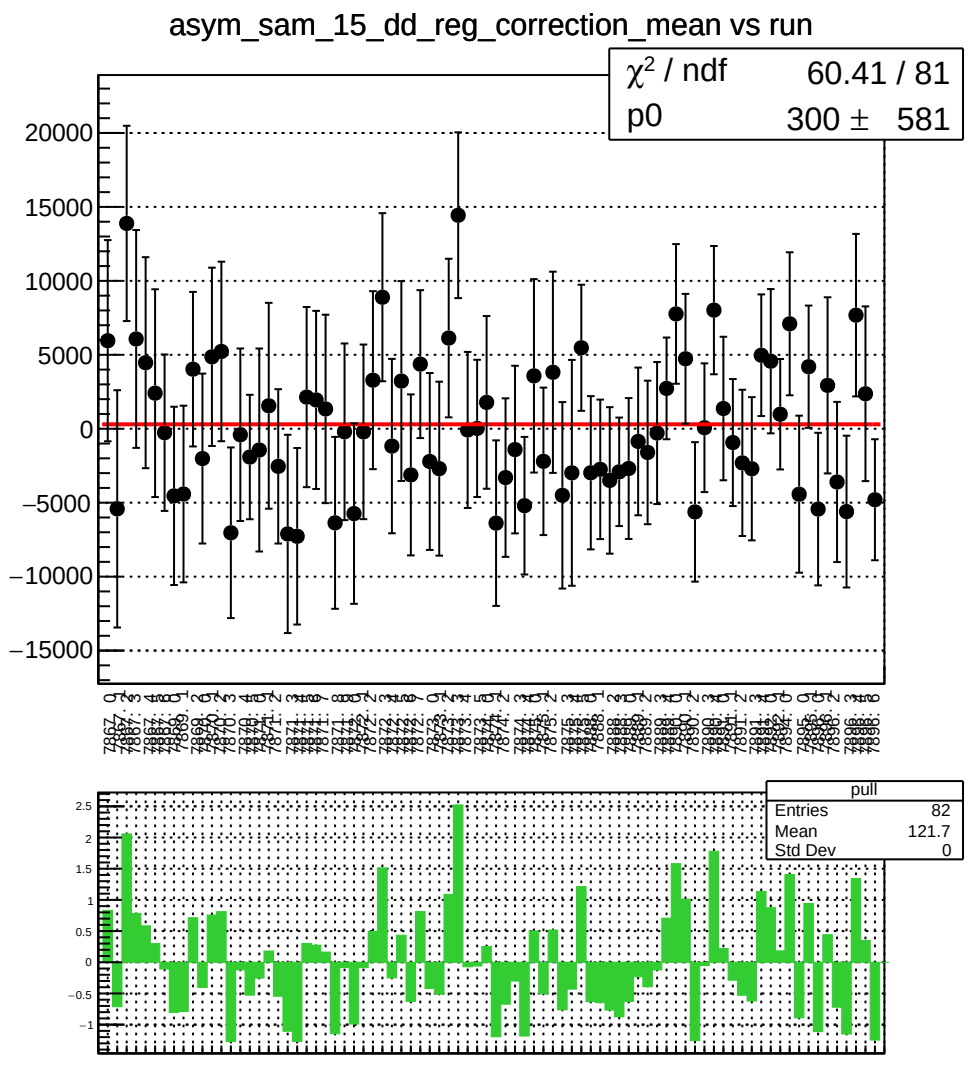

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.93 / 81
p0 −2.191e−13 ± 3.396e−13
pull
Entries 82
Mean 44.97
Std Dev 0

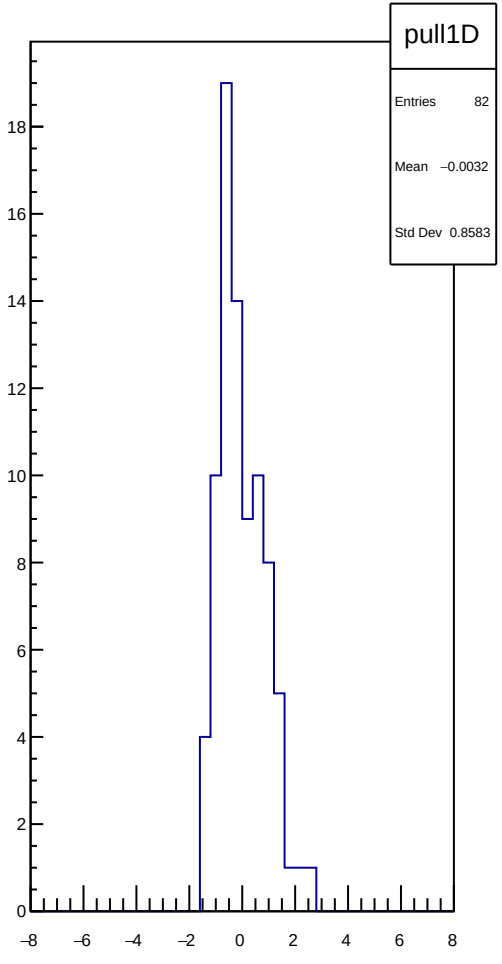

pull1D
Entries 82
Mean 0.05218
Std Dev 0.9481

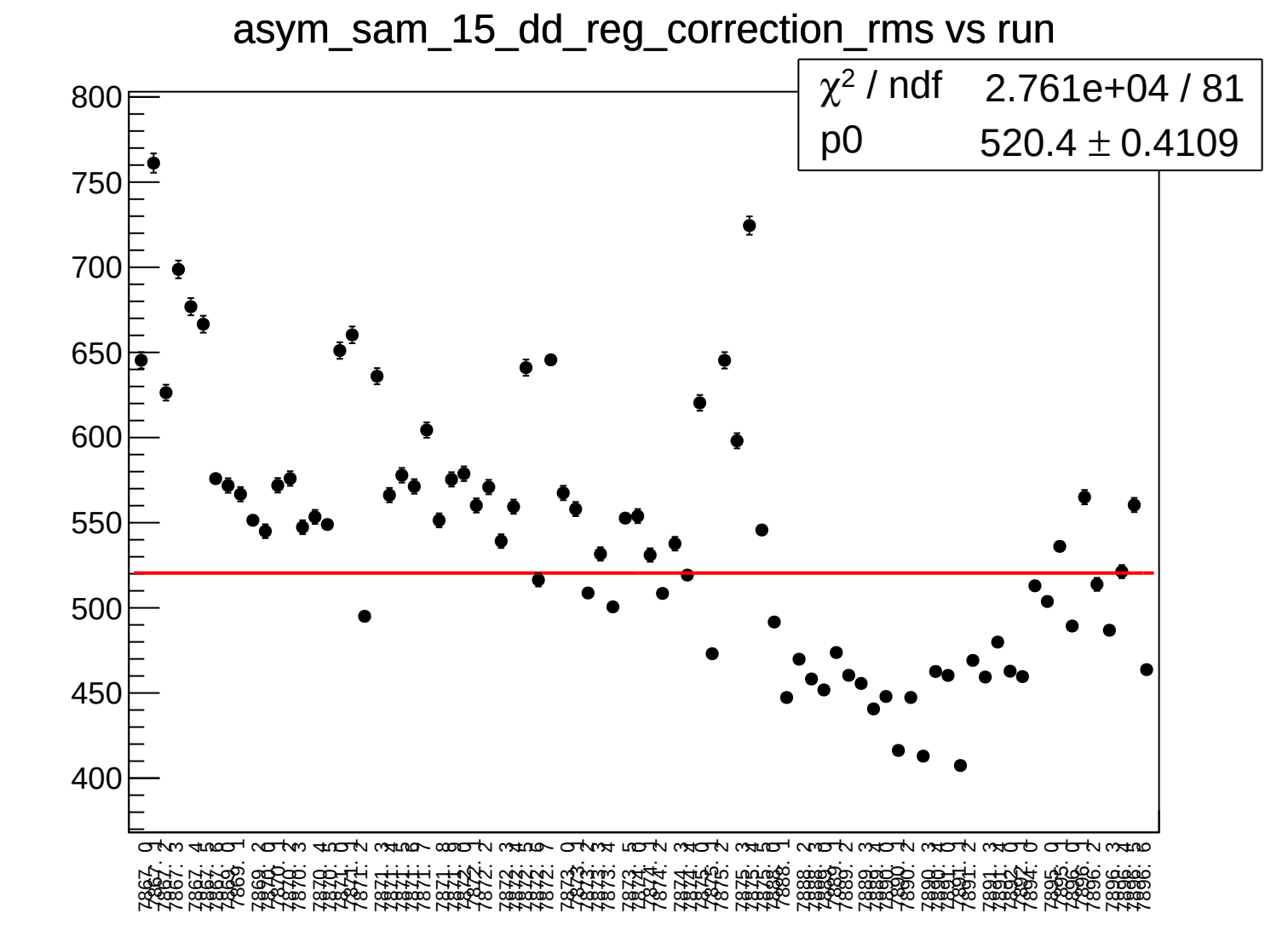

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.785e+05 / 81
p0 2.218e−10 ± 2.401e−13
5
4
3
2
1

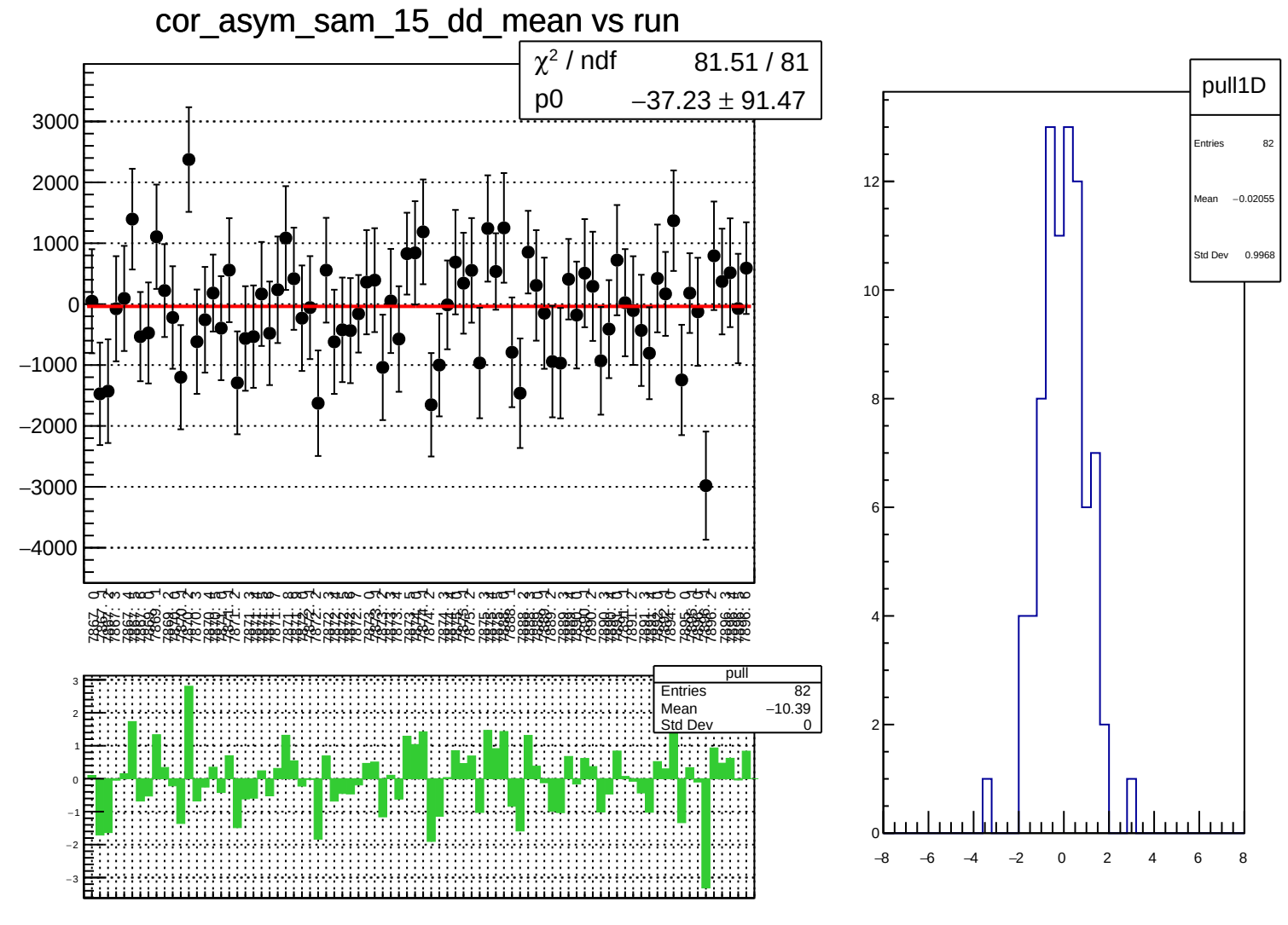

reg_asym_sam_15_dd_mean vs run
χ² / ndf 81.51 / 81
p0 −37.24 ± 91.47
pull
Entries 82
Mean −10.39
Std Dev 0
pull1D
Entries 82
Mean −0.02055
Std Dev 0.9968

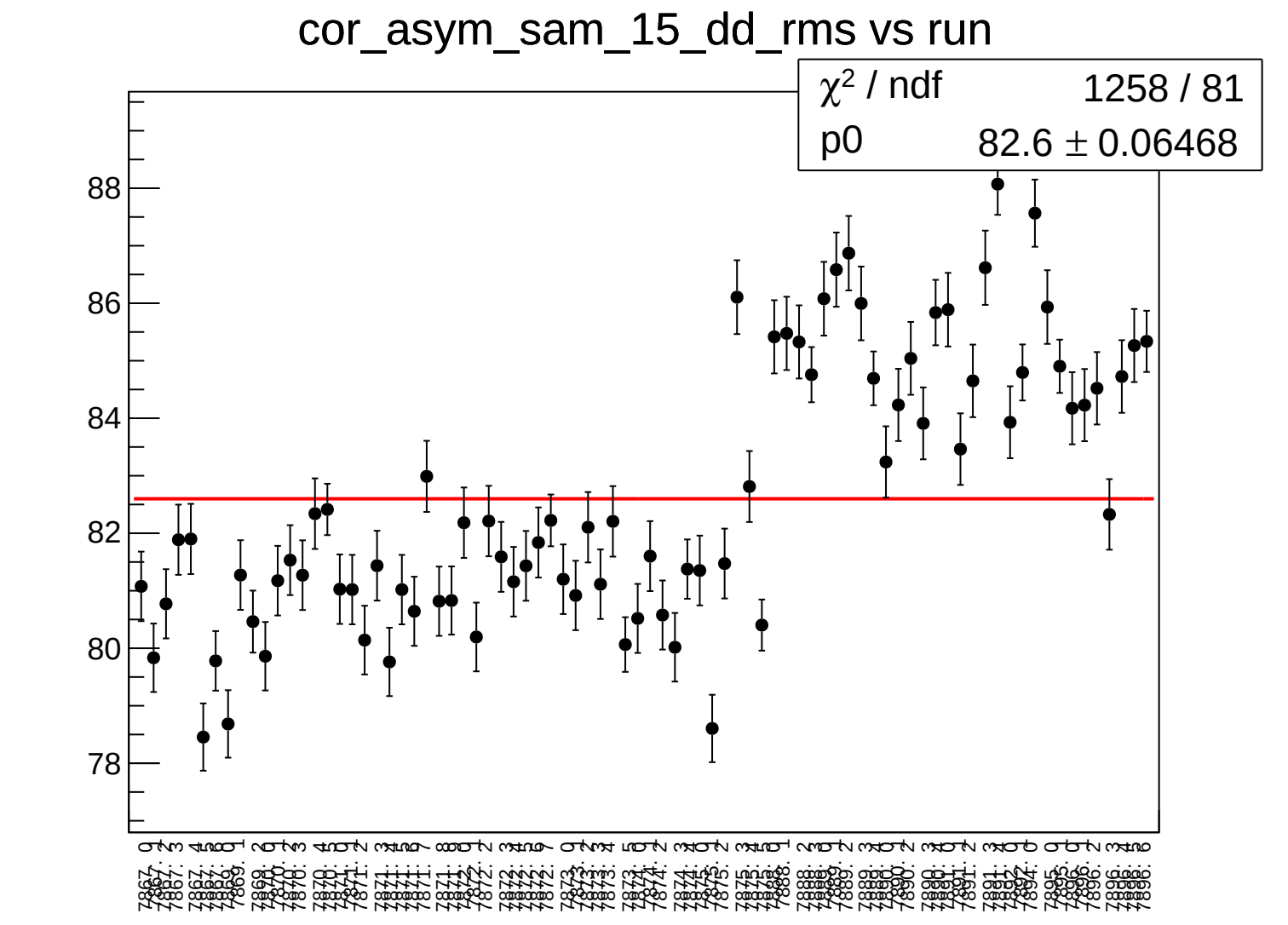

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1258 / 81
p0 82.6 ± 0.06468
88
86
84
82
80
78

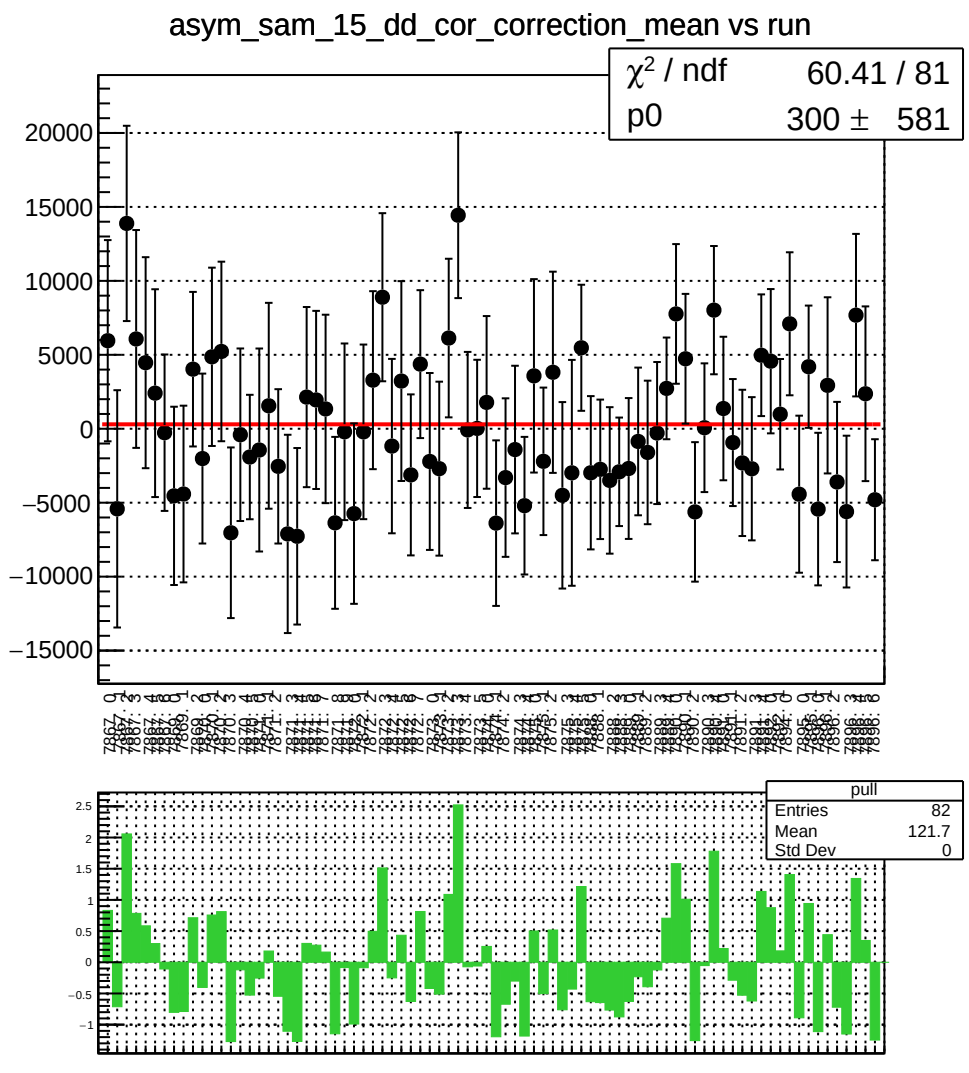

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 60.41 / 81
p0 300 ± 581
pull
Entries 82
Mean 121.7
Std Dev 0

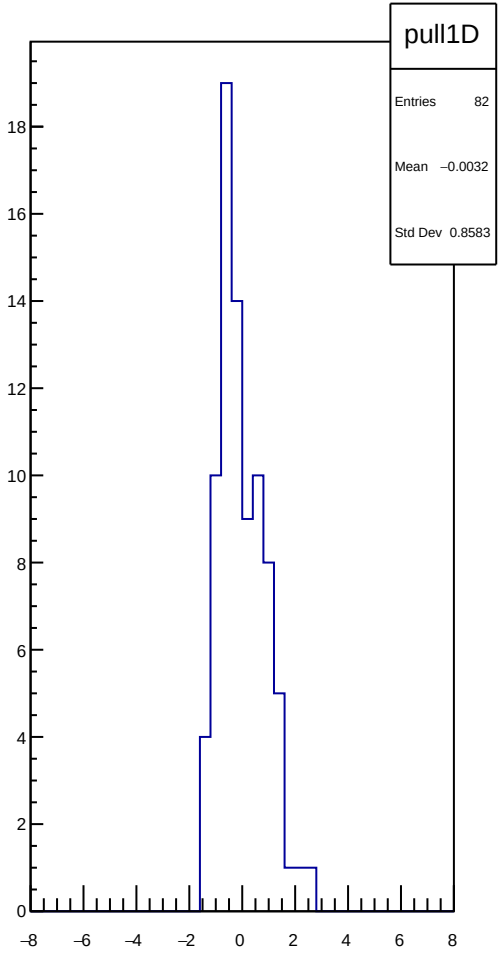

pull1D
Entries 82
Mean −0.0032
Std Dev 0.8583

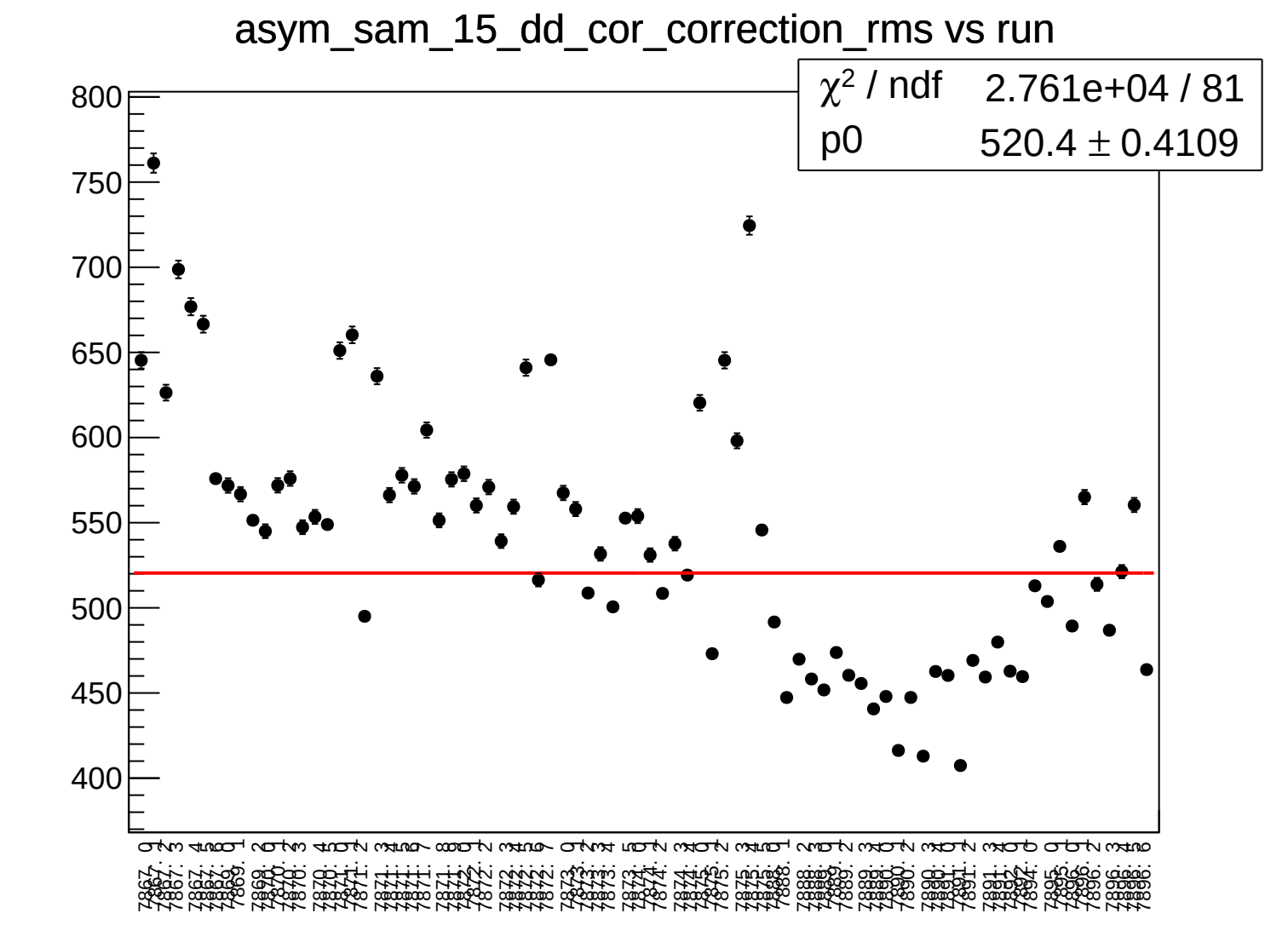

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.761e+04 / 81
p0 520.4 ± 0.4109
800
750
700
650
600
550
500
450
400

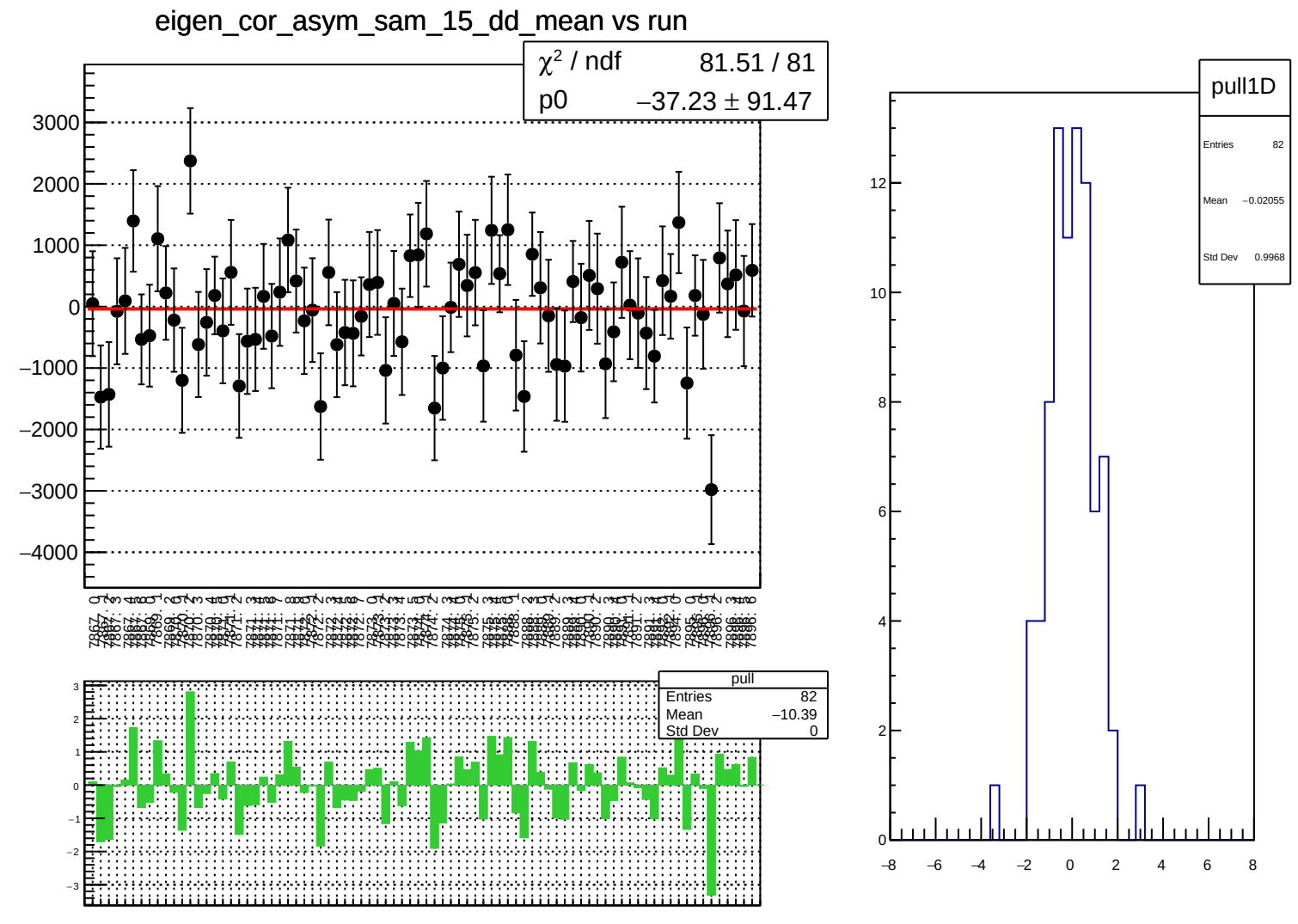

cor_asym_sam_15_dd_mean vs run
χ² / ndf 81.51 / 81
p0 −37.23 ± 91.47
pull
Entries 82
Mean −10.39
Std Dev 0
pull1D
Entries 82
Mean −0.02055
Std Dev 0.9968

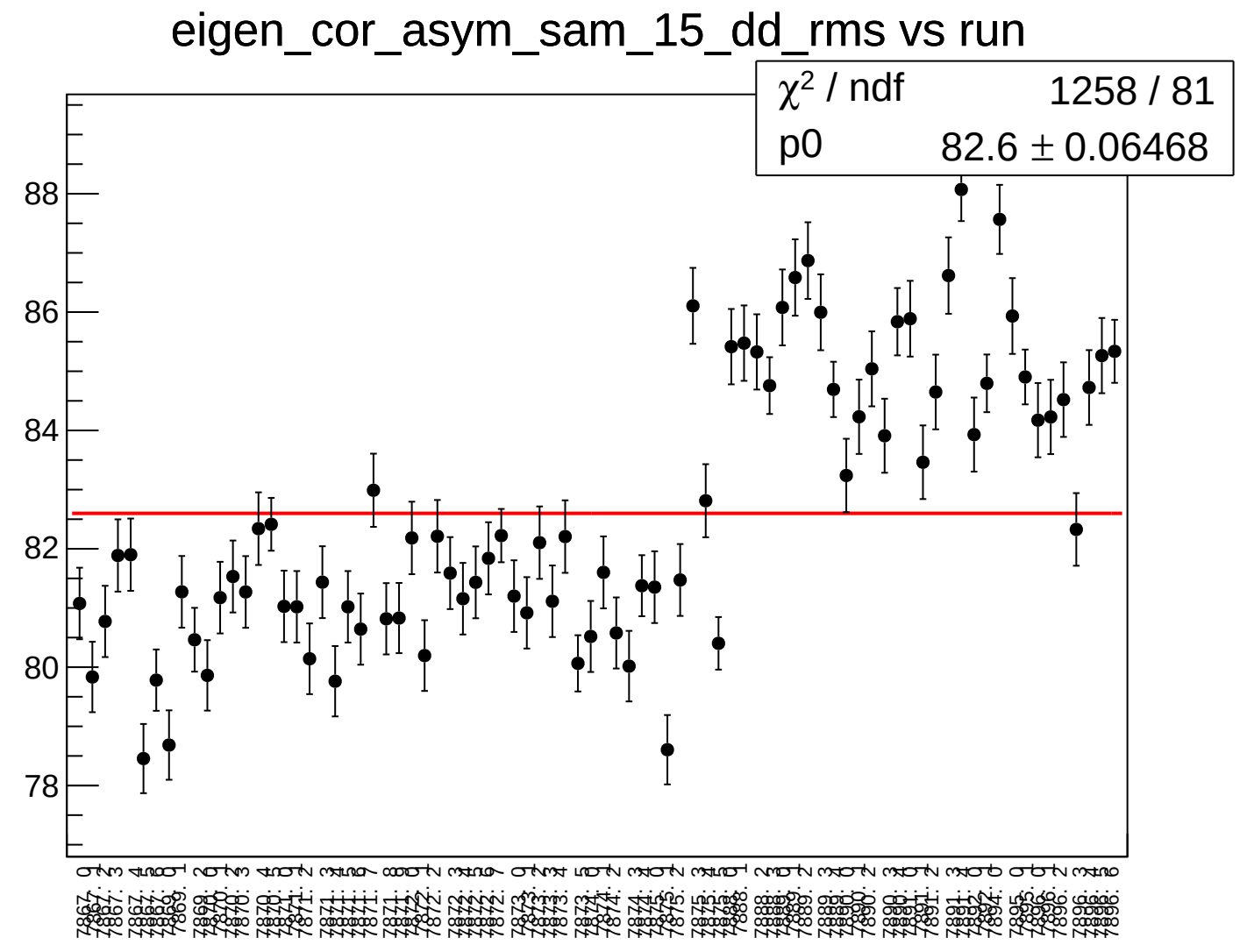

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1258 / 81
p0 82.6 ± 0.06468
88
86
84
82
80
78

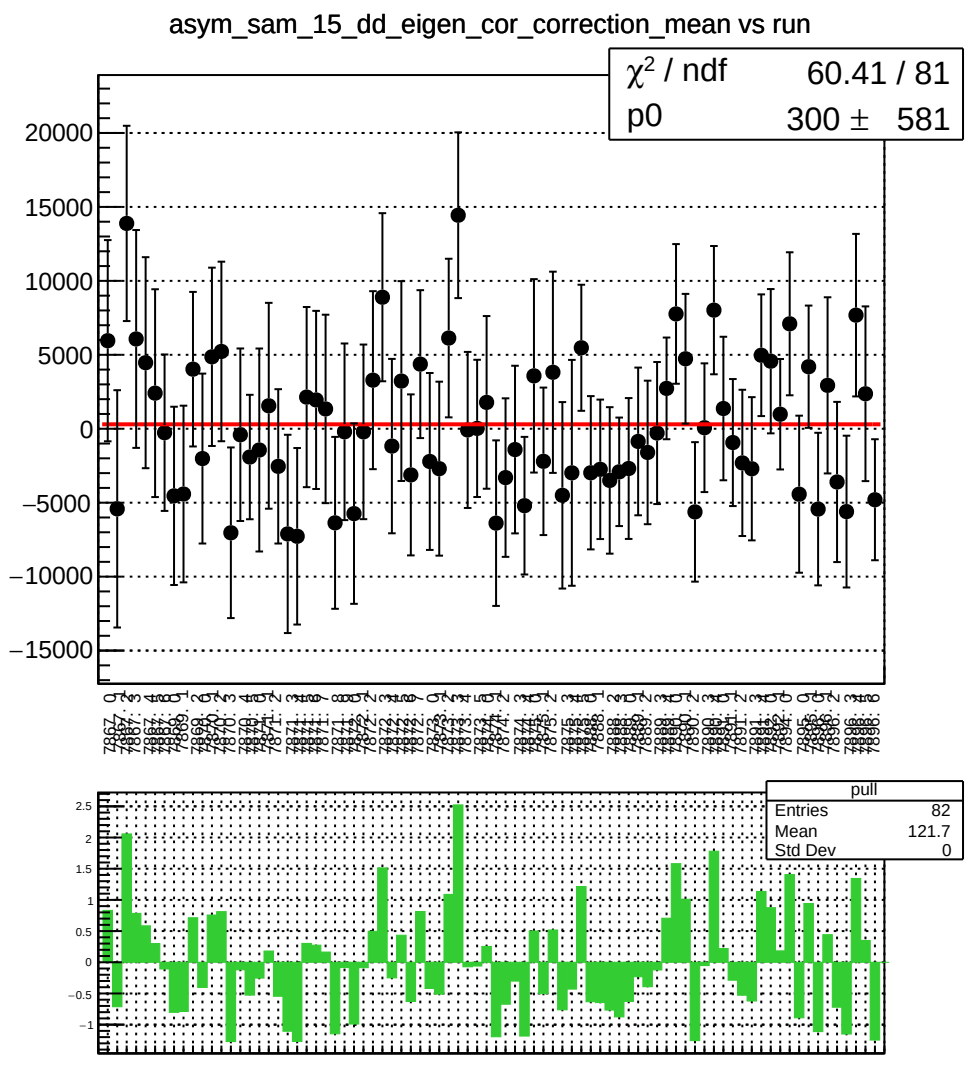

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 60.41 / 81
p0 300 ± 581
pull
Entries 82
Mean 121.7
Std Dev 0

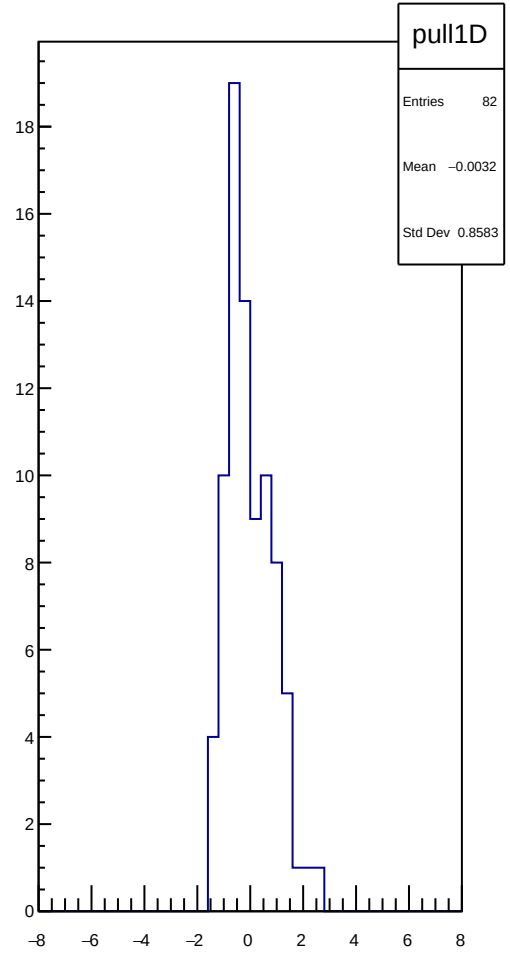

pull1D
Entries 82
Mean −0.0032
Std Dev 0.8583

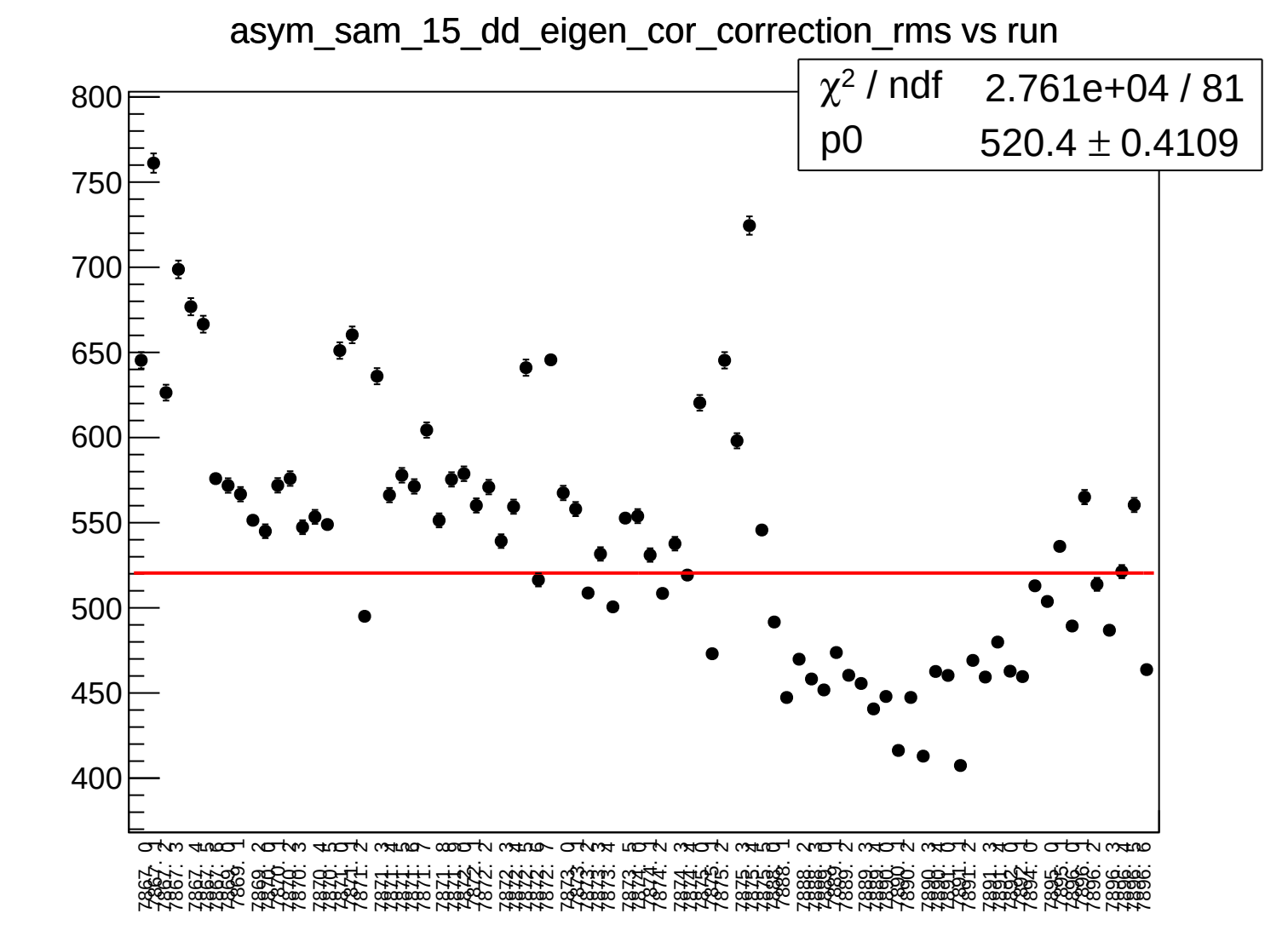

asym_sam_15_dd_cor_correction_rms vs run
χ^2 / ndf 2.761e+04 / 81
p0 520.4 ± 0.4109
800
750
700
650
600
550
500
450
400

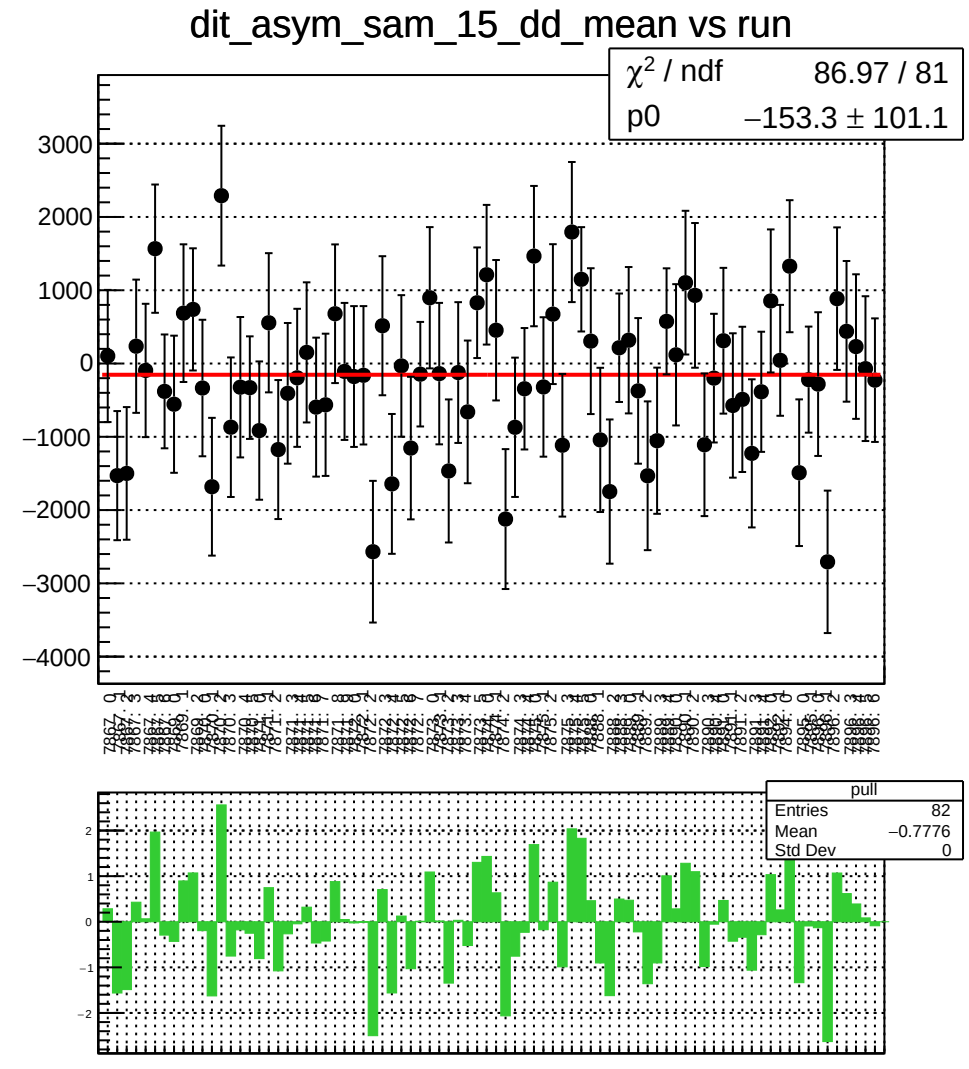

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 81.51 / 81
p0 −37.23 ± 91.47
pull
Entries 82
Mean −10.39
Std Dev 0
pull1D
Entries 82
Mean −0.02055
Std Dev 0.9968

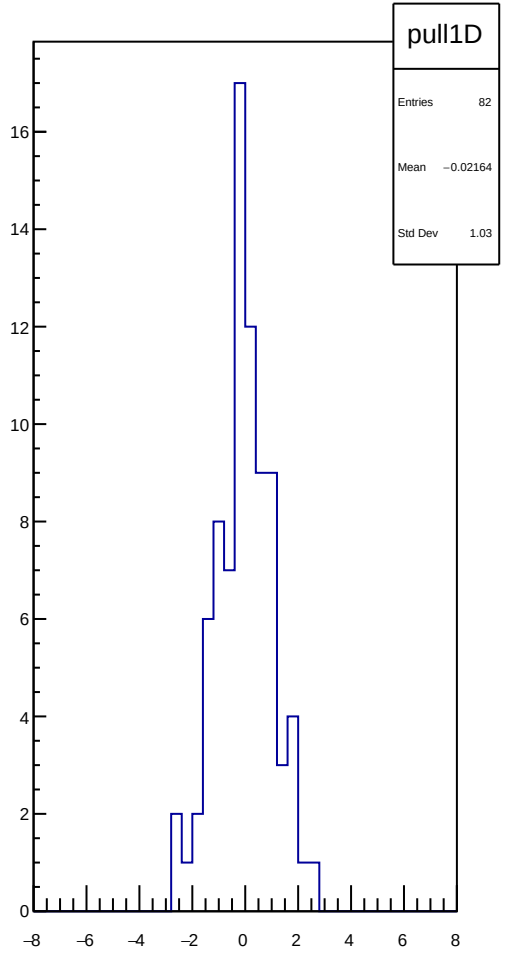

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1258 / 81
p0 82.6 ± 0.06468
88
86
84
82
80
78

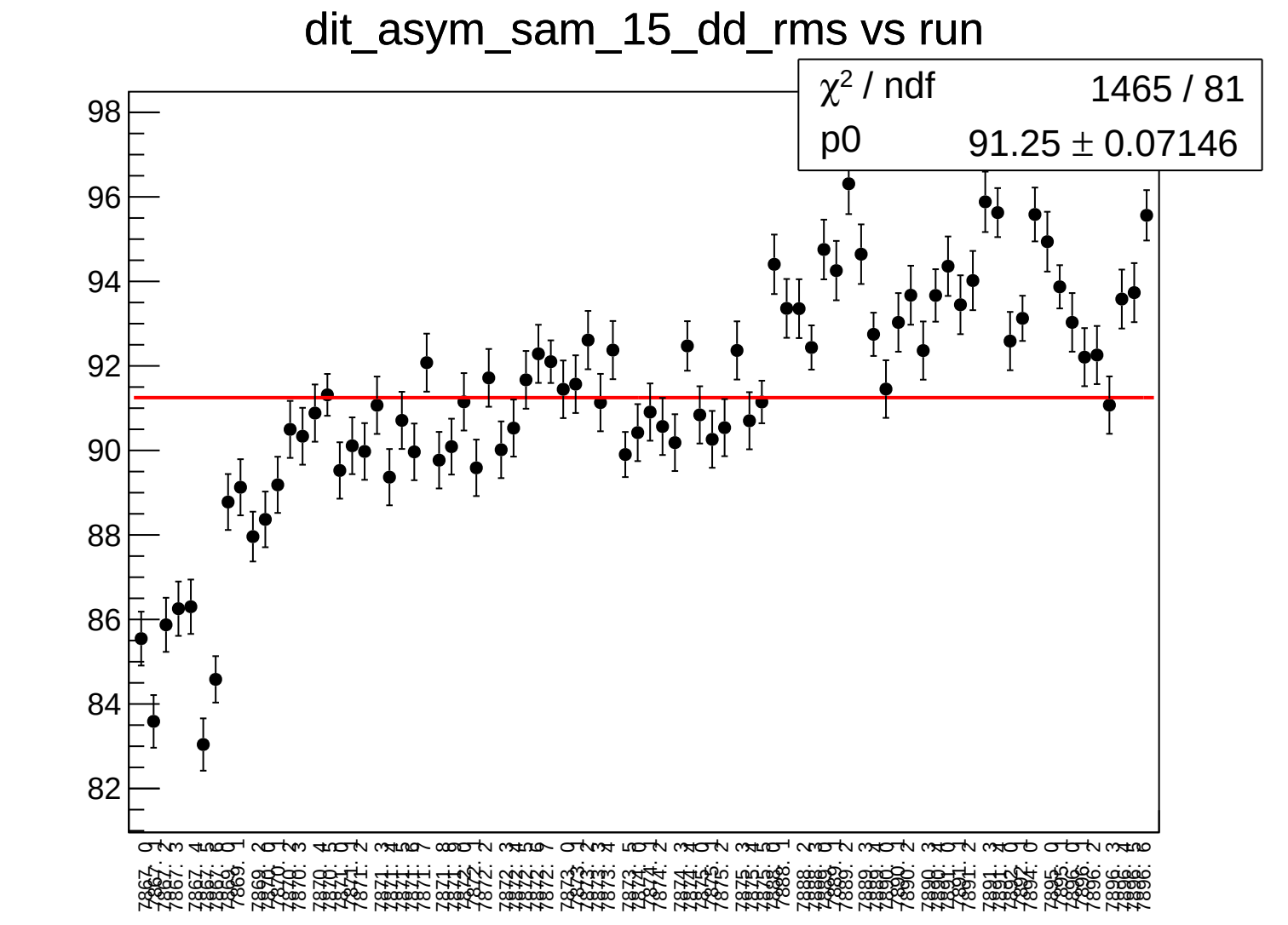

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.41 / 81
p0 300 ± 581
pull
Entries 82
Mean 121.7
Std Dev 0

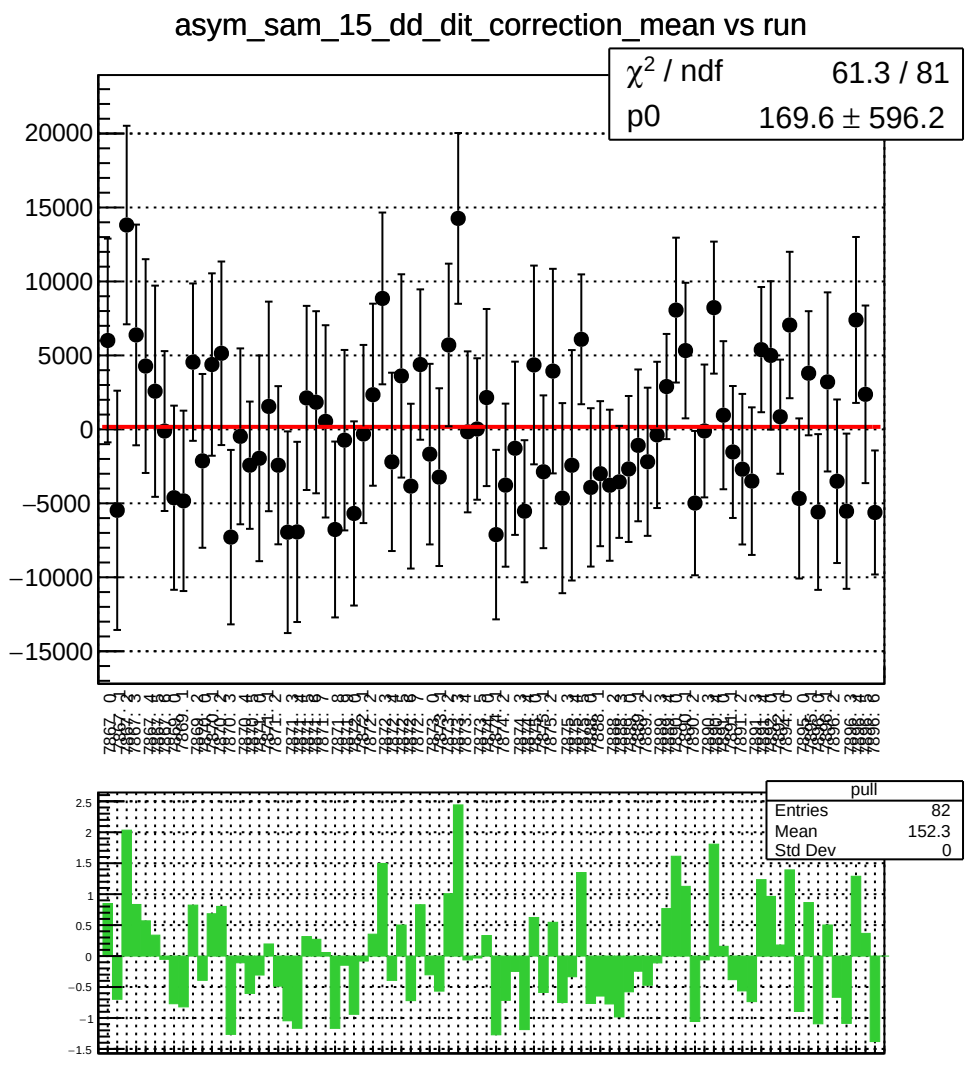

pull1D
Entries 82
Mean −0.0032
Std Dev 0.8583

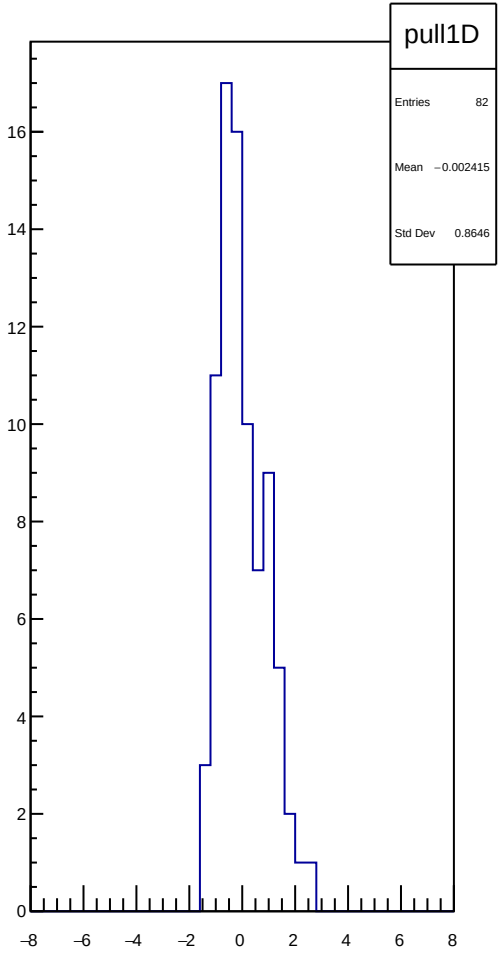

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.761e+04 / 81
p0 520.4 ± 0.4109
800
750
700
650
600
550
500
450
400

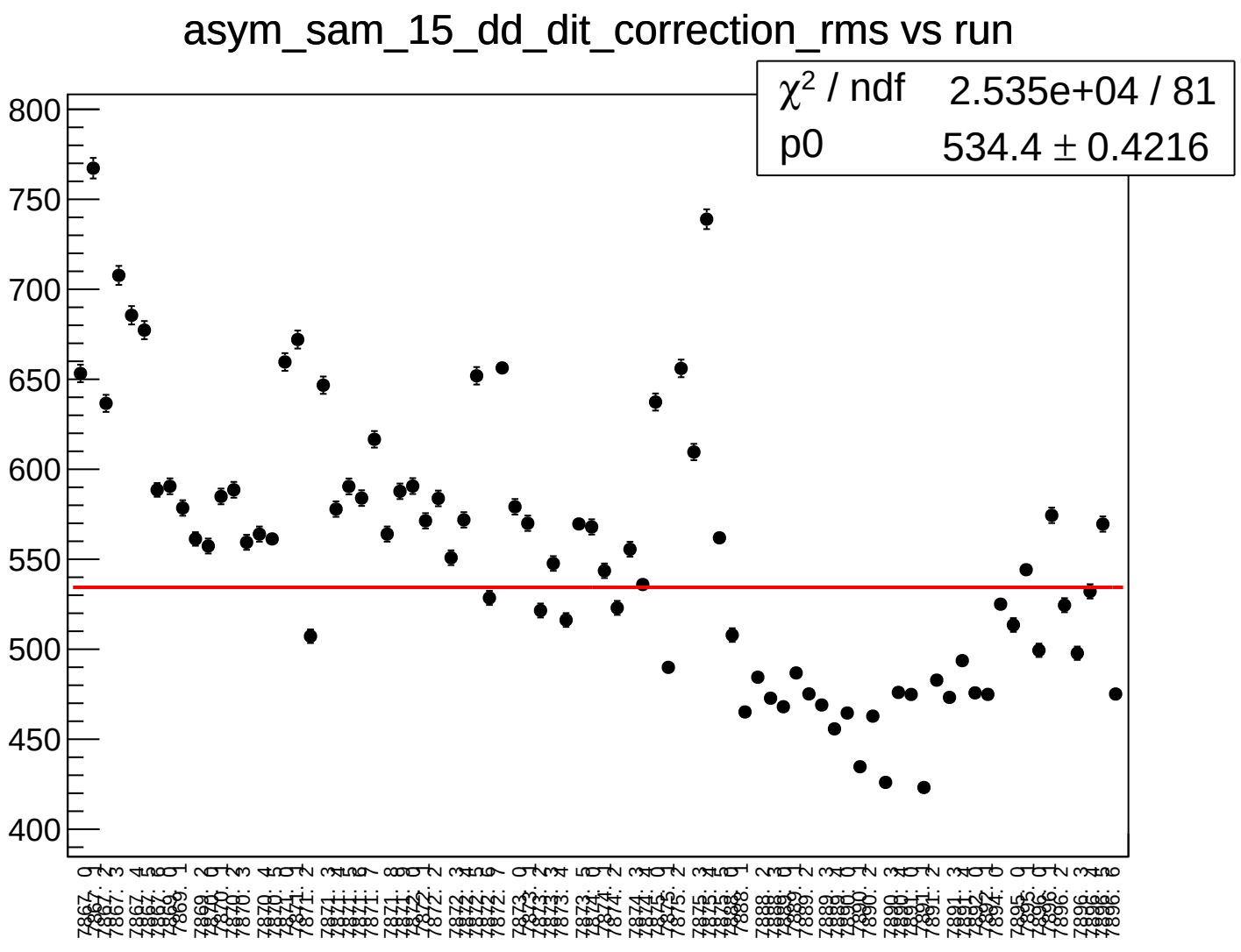

dit_asym_sam_15_dd_mean vs run
χ² / ndf 86.97 / 81
p0 −153.3 ± 101.1
pull
Entries 82
Mean −0.7776
Std Dev 0

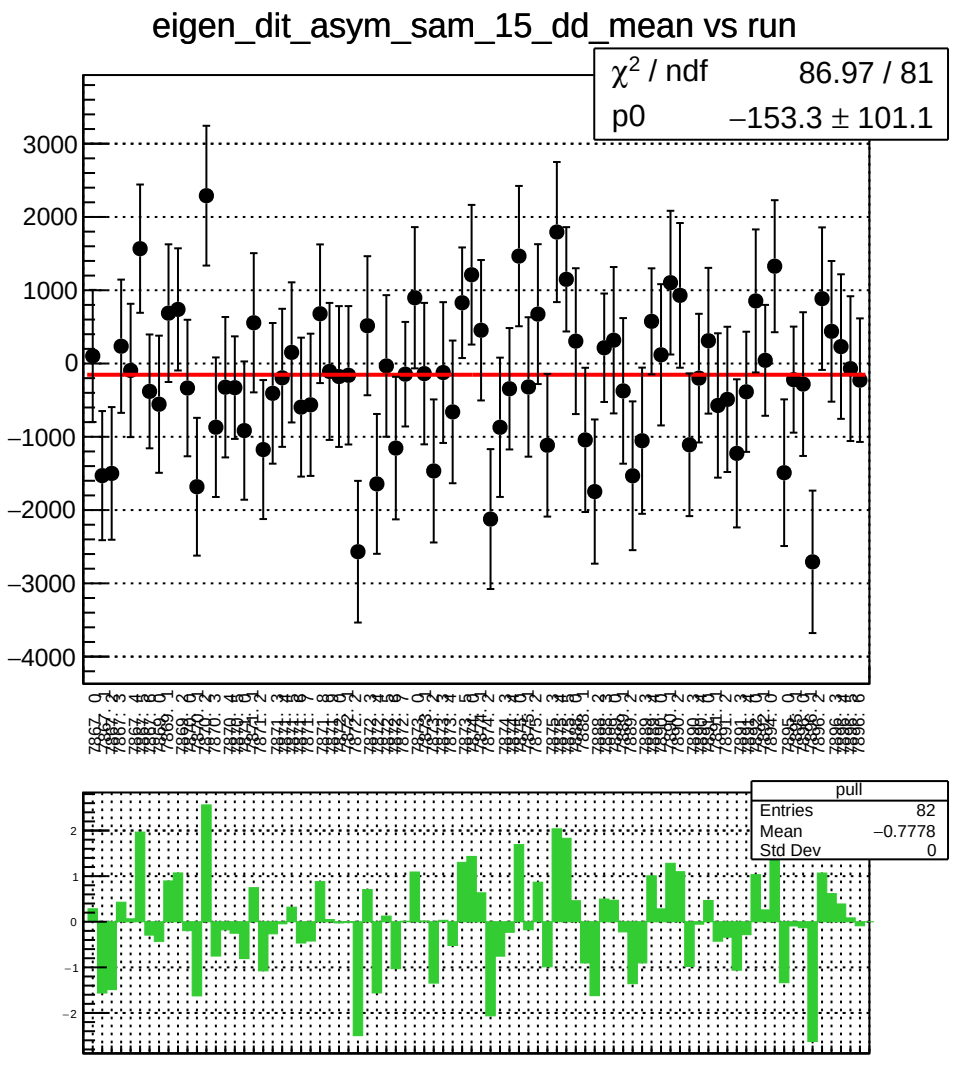

pull1D
Entries 82
Mean −0.02164
Std Dev 1.03

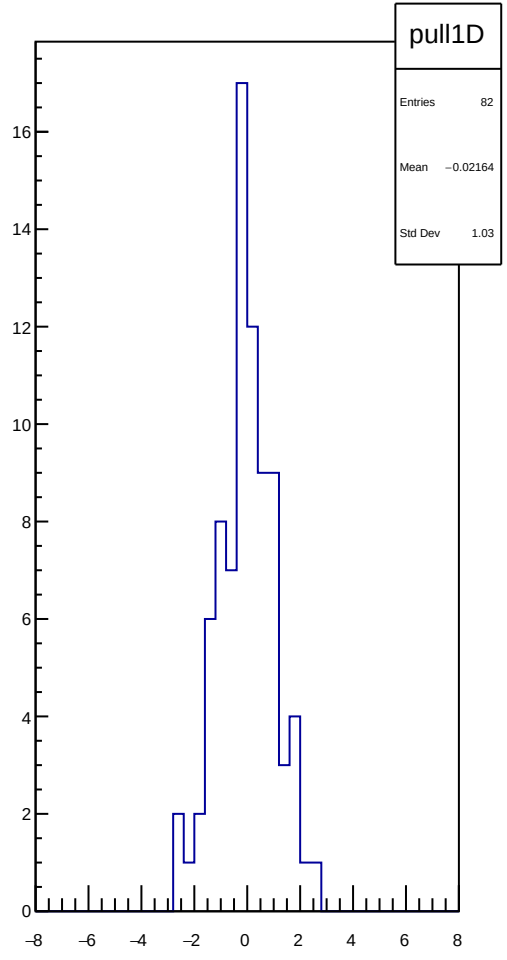

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1465 / 81
p0 91.25 ± 0.07146
98
96
94
92
90
88
86
84
82

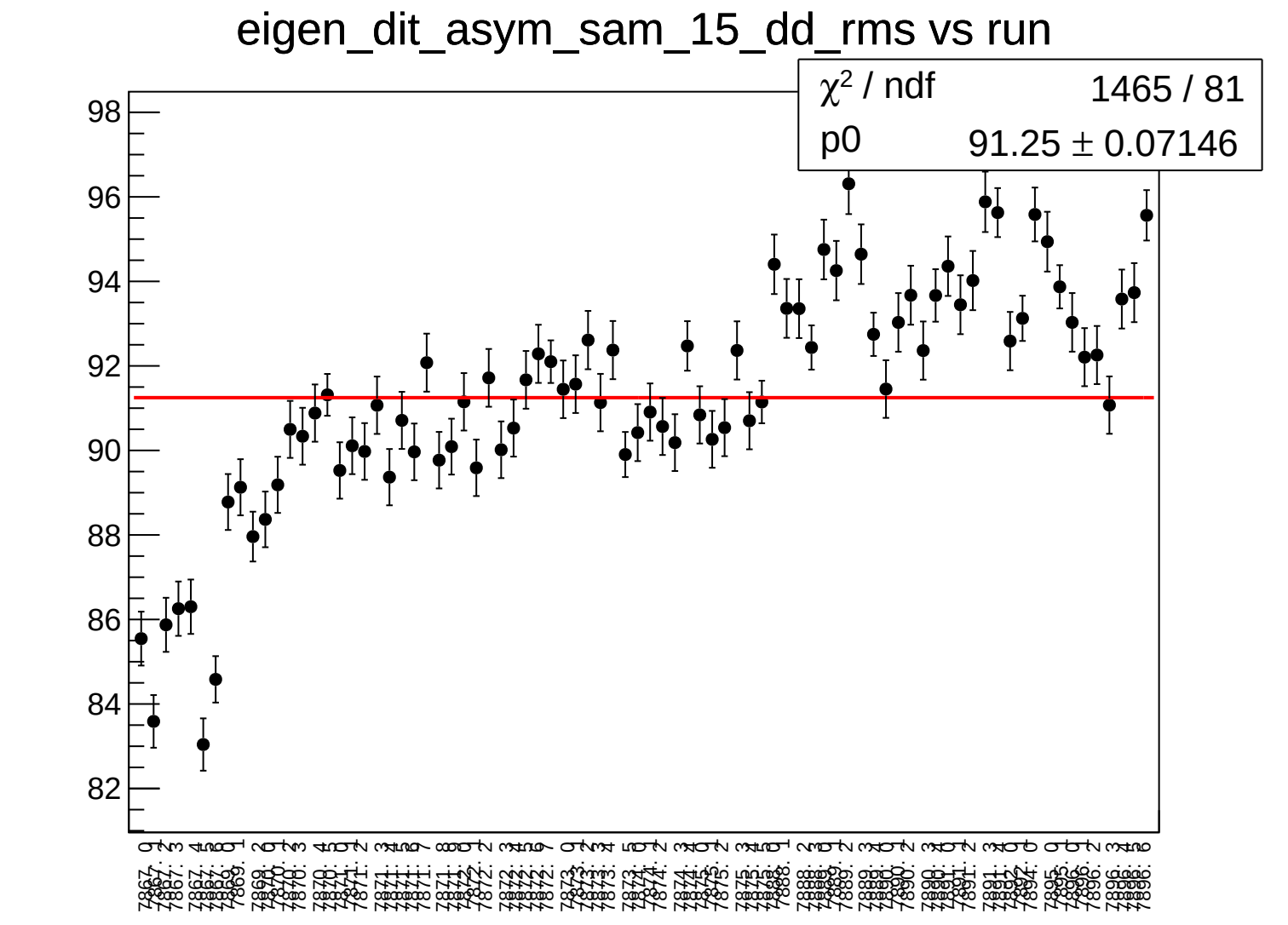

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 61.3 / 81
p0 169.6 ± 596.2
pull
Entries 82
Mean 152.3
Std Dev 0

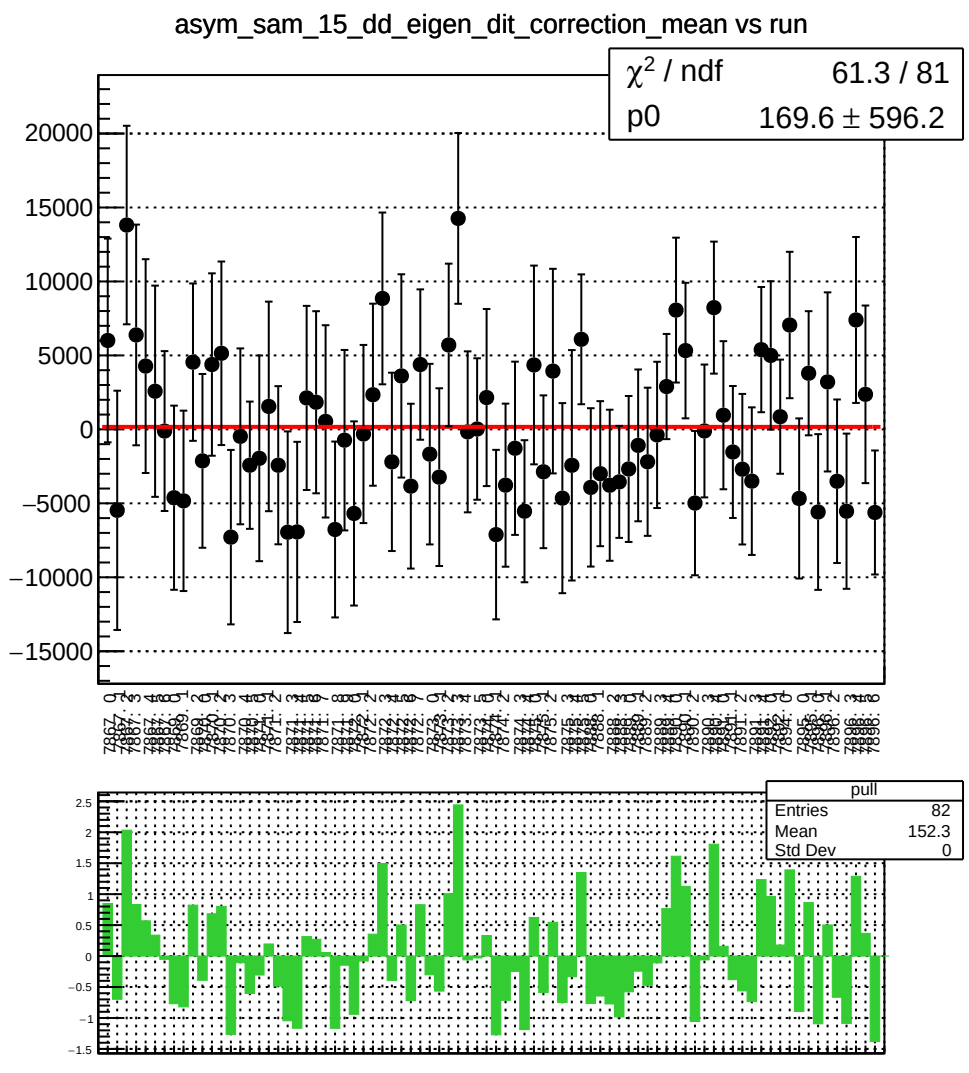

pull1D
Entries 82
Mean −0.002415
Std Dev 0.8646

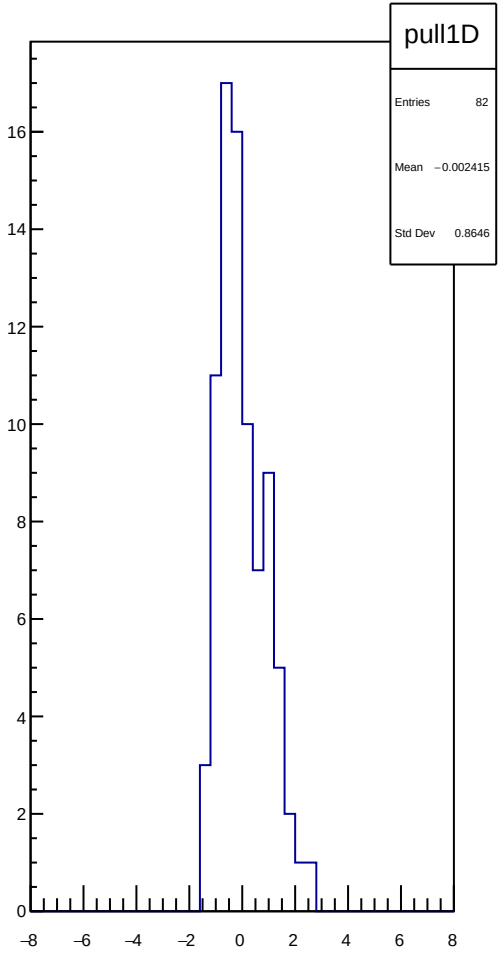

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.535e+04 / 81
p0 534.4 ± 0.4216
800
750
700
650
600
550
500
450
400

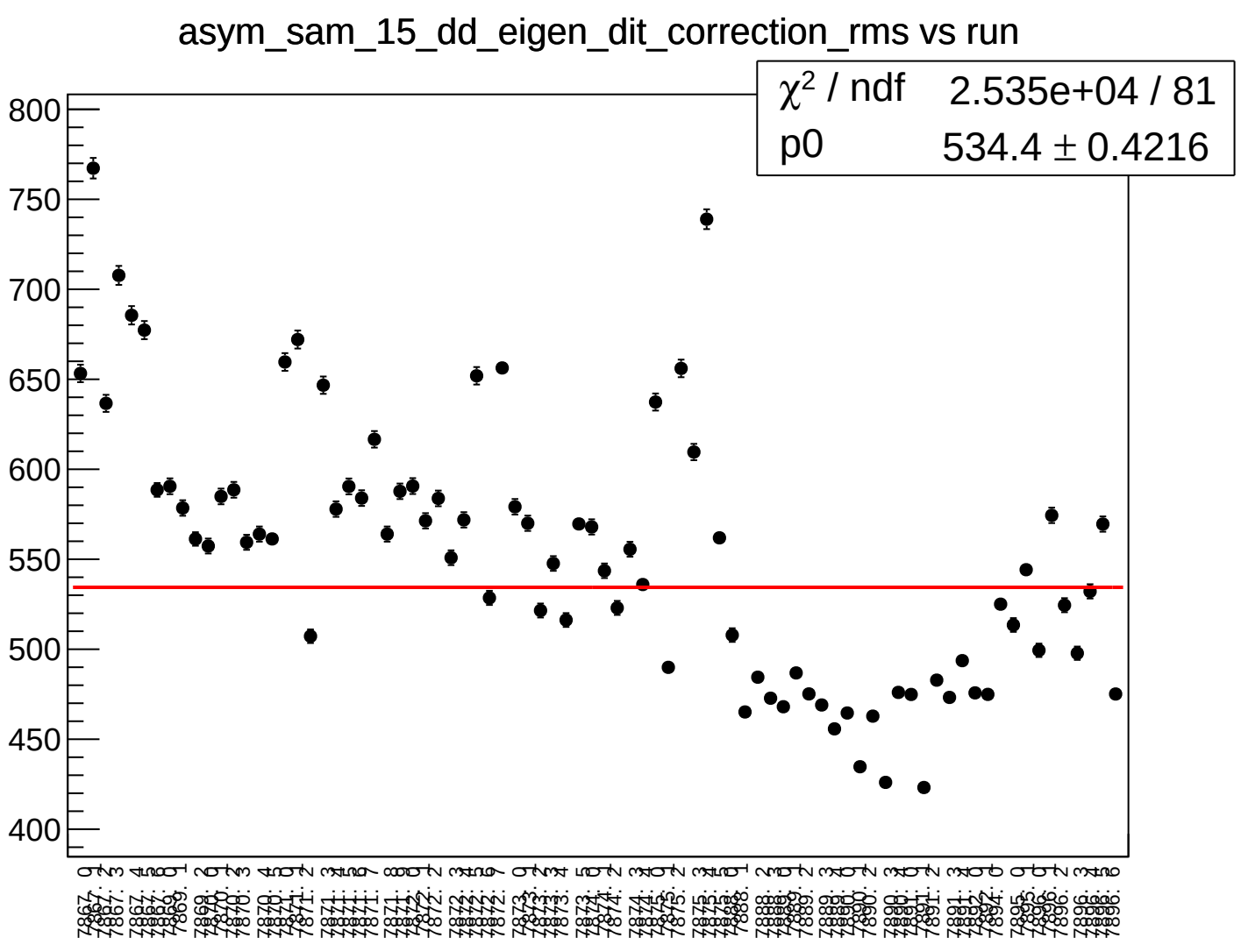

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 86.97 / 81
p0 −153.3 ± 101.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 82
Mean −0.7778
Std Dev 0
2
1
0
−1
−2

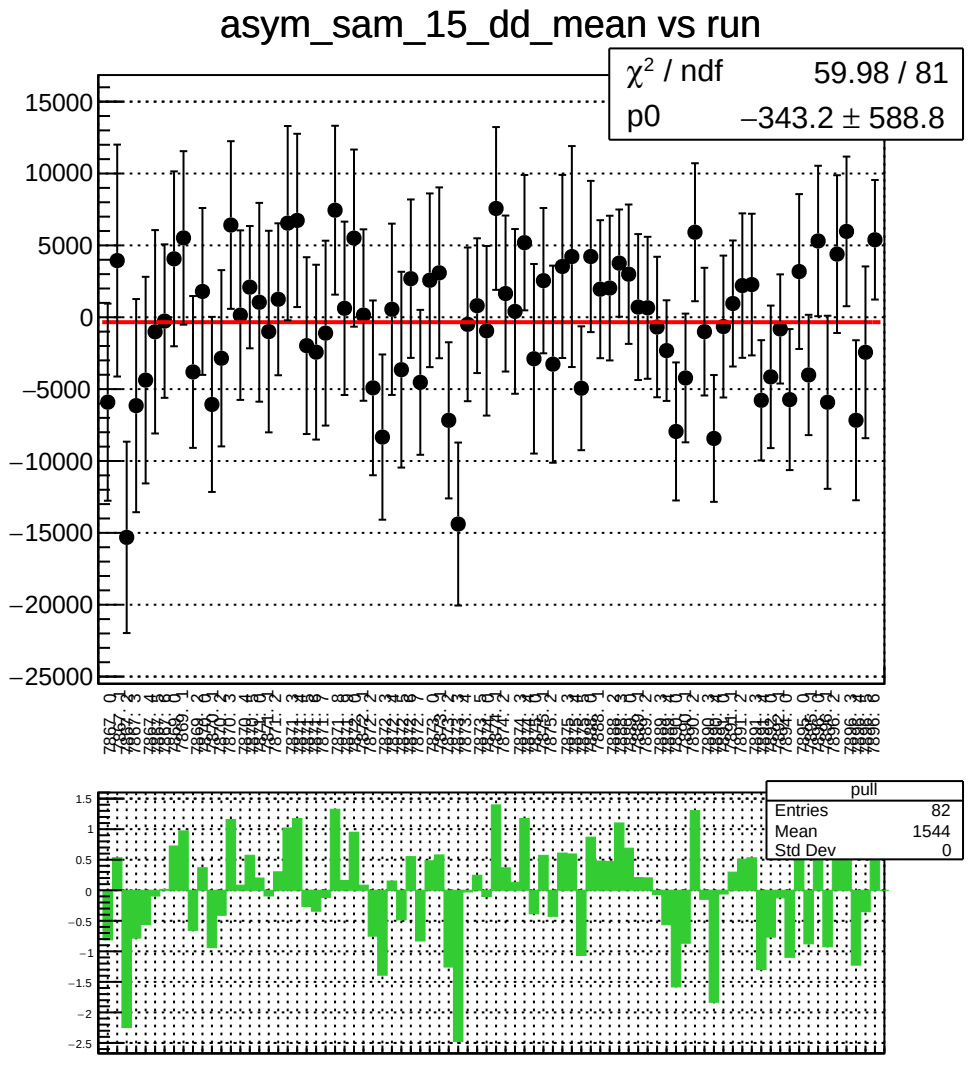

pull1D
Entries 82
Mean −0.02164
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

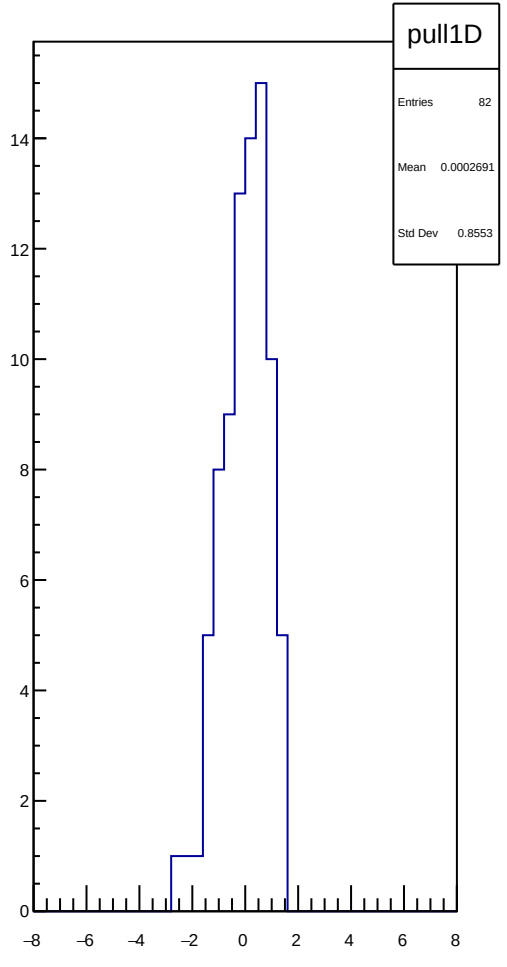

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1465 / 81
p0 91.25 ± 0.07146
98
96
94
92
90
88
86
84
82

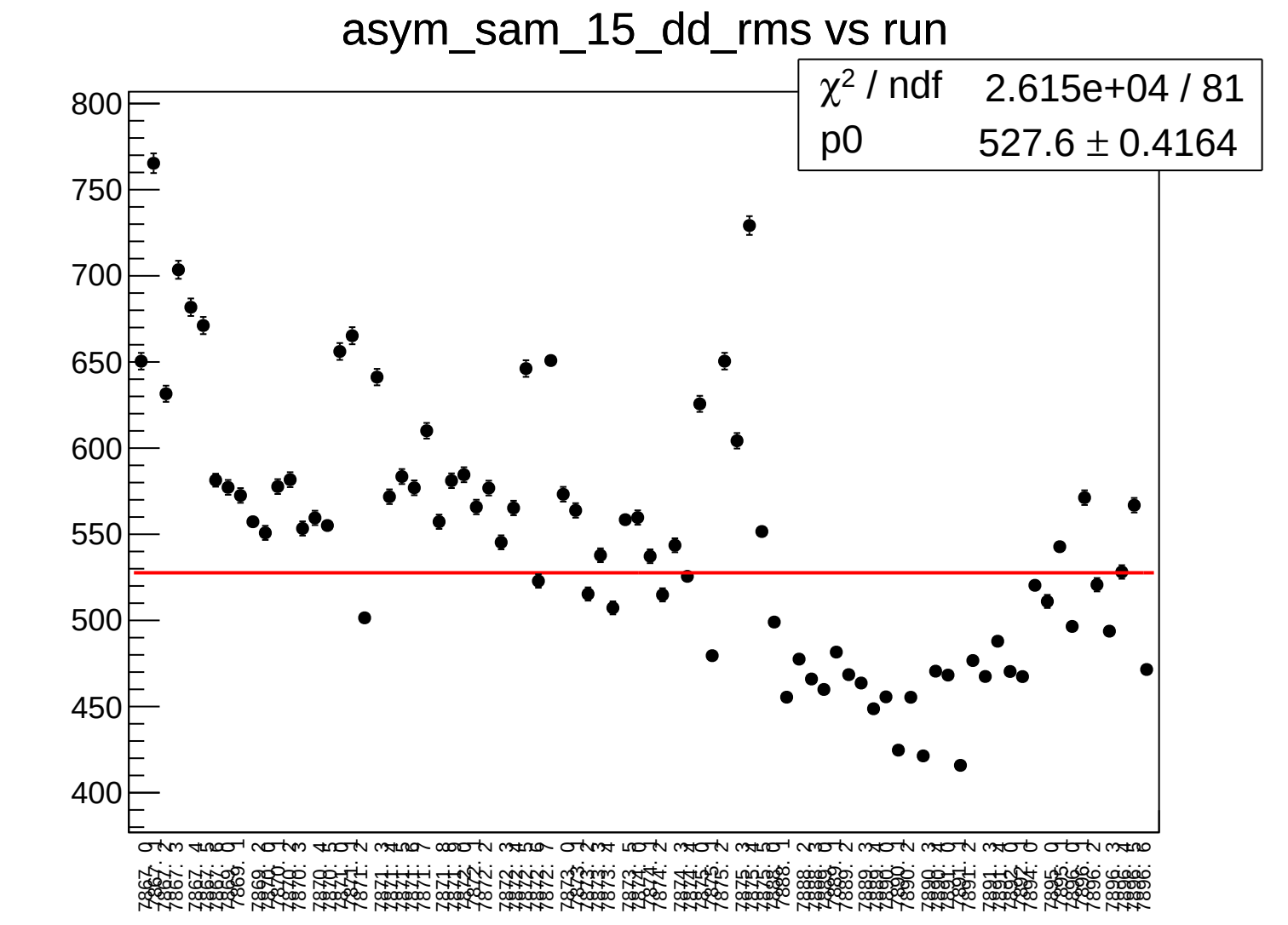

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 61.3 / 81
p0 169.6 ± 596.2
pull
Entries 82
Mean 152.3
Std Dev 0

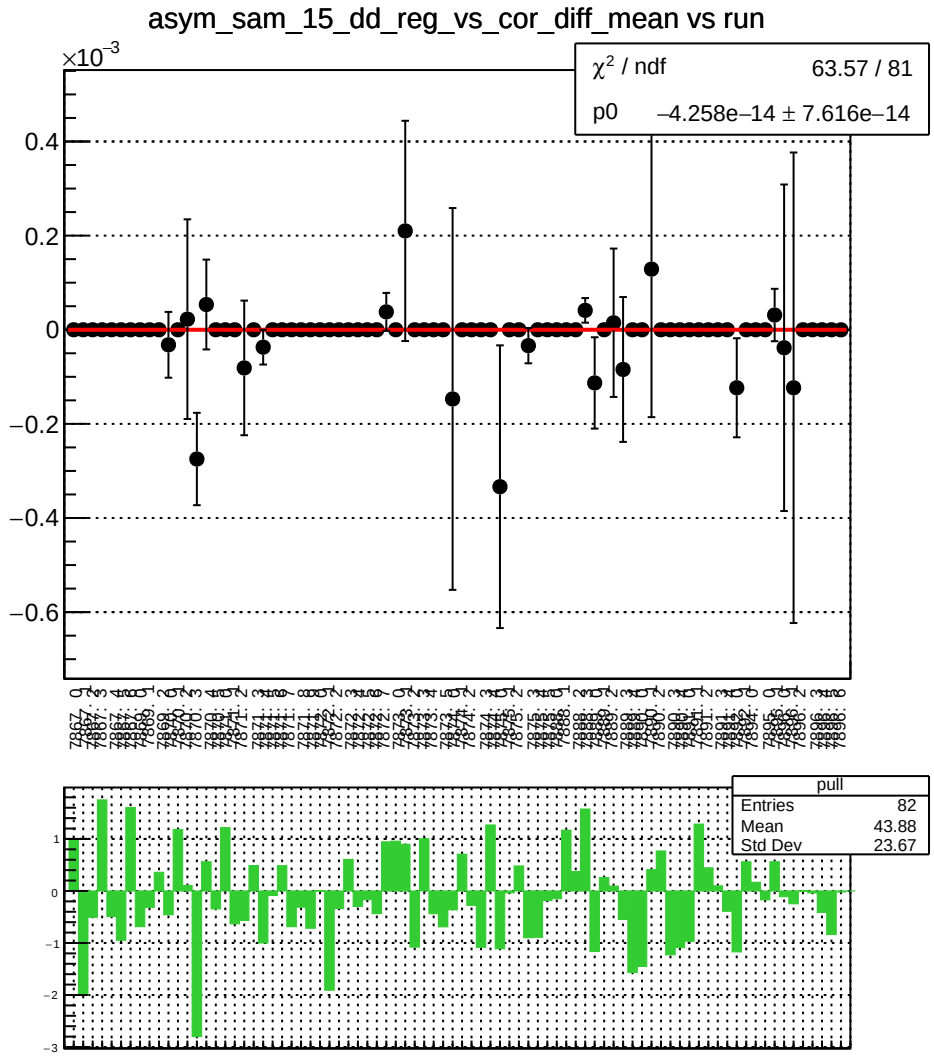

pull1D
Entries 82
Mean −0.002415
Std Dev 0.8646

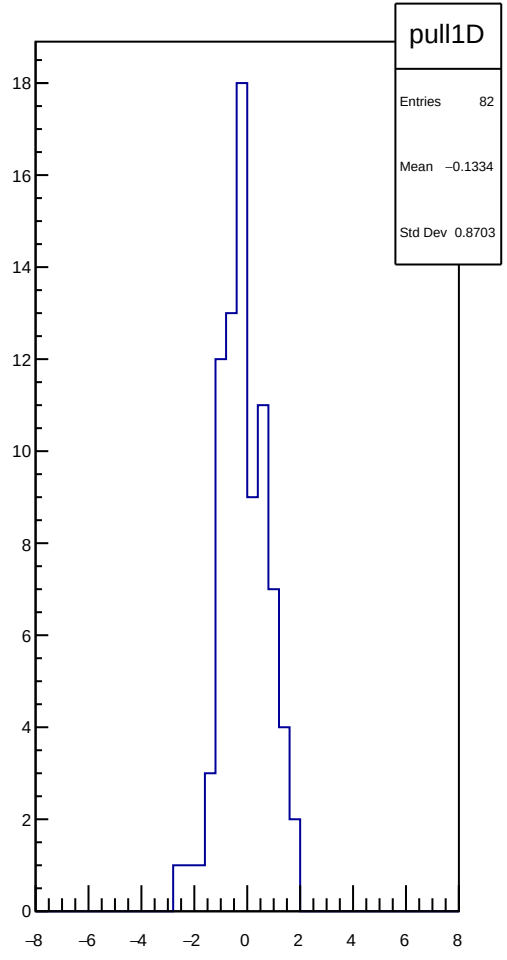

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.535e+04 / 81
p0 534.4 ± 0.4216
800
750
700
650
600
550
500
450
400

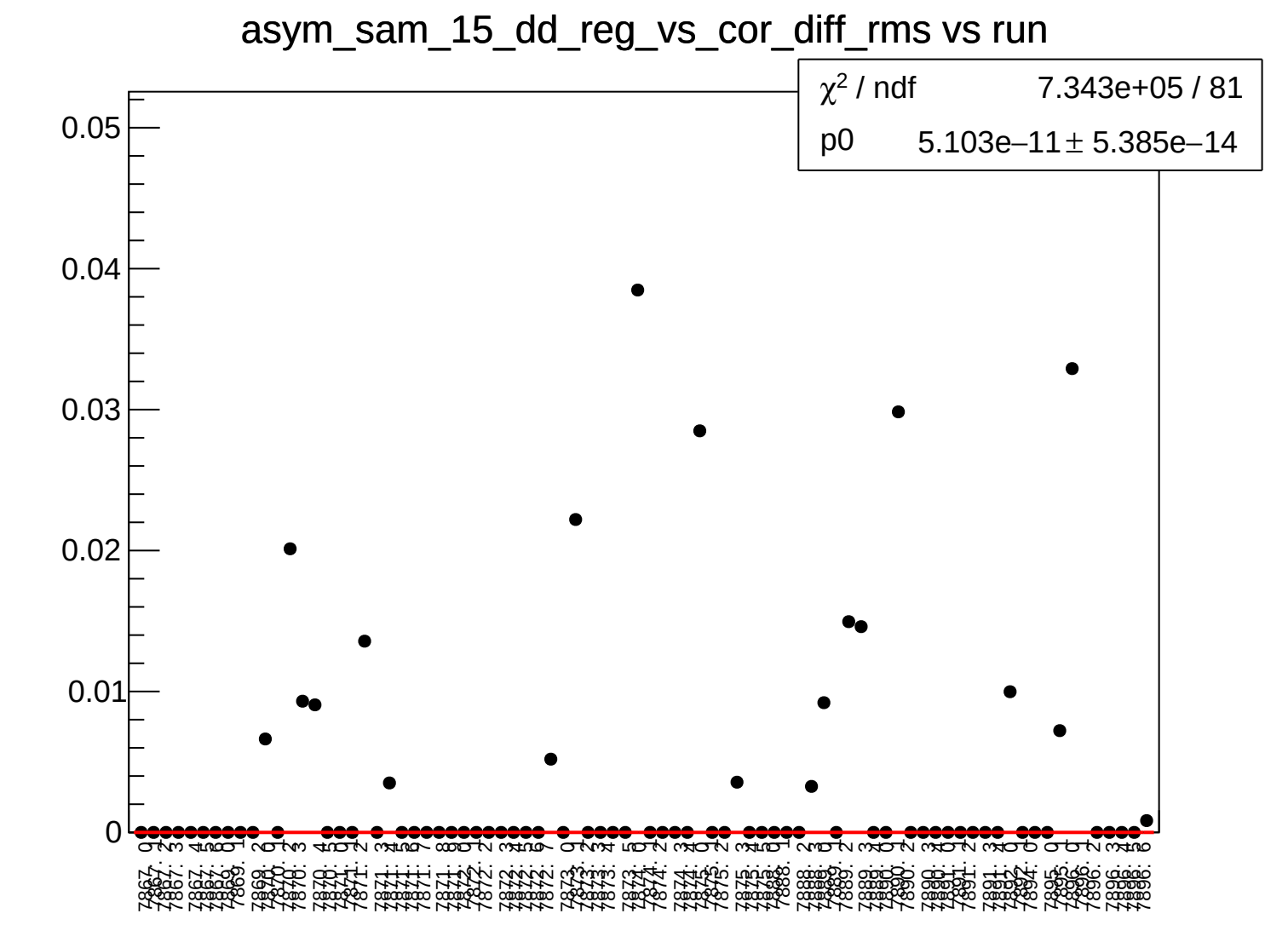

asym_sam_15_dd_mean vs run
χ² / ndf 59.98 / 81
p0 −343.2 ± 588.8
pull
Entries 82
Mean 1544
Std Dev 0

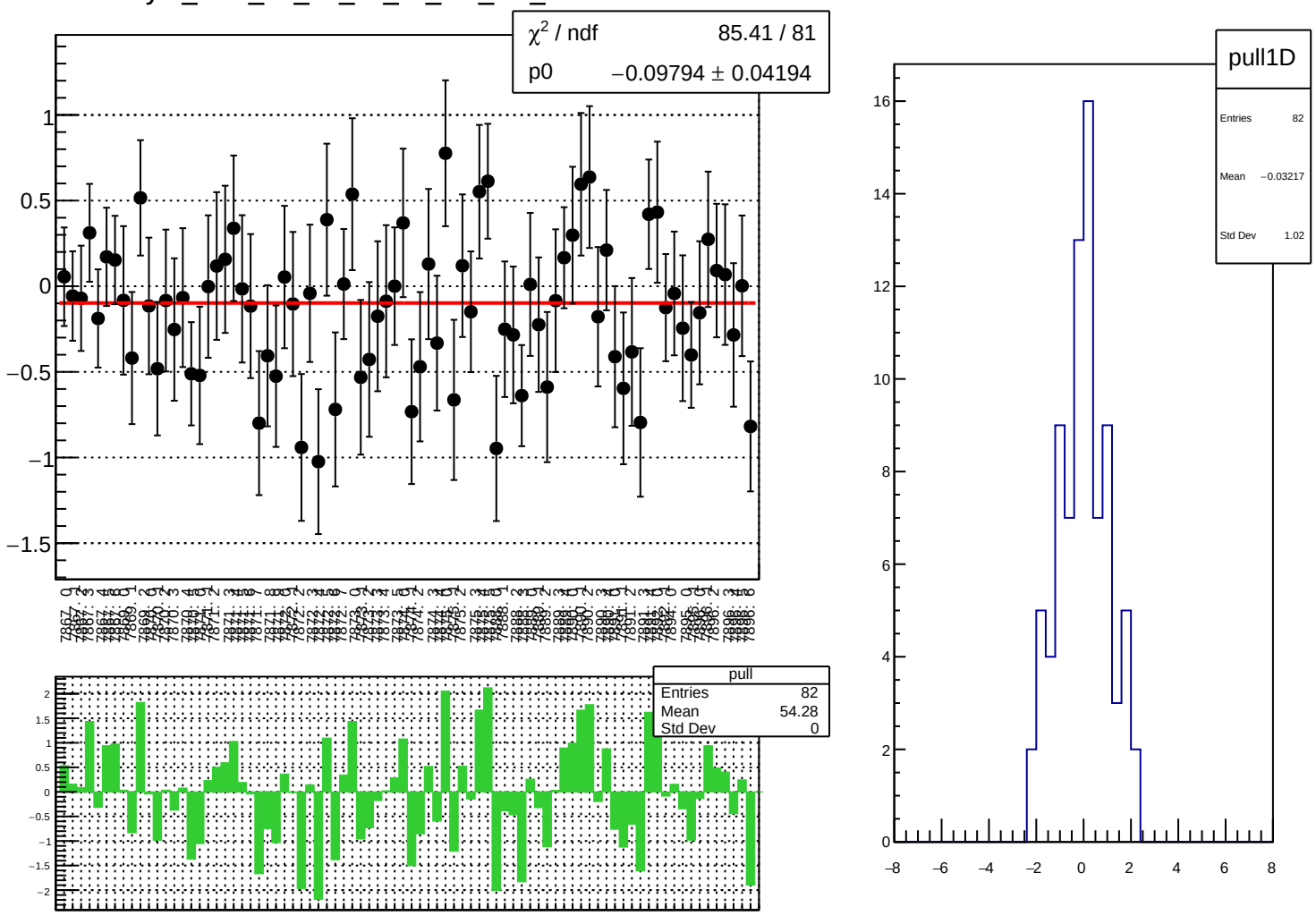

pull1D
Entries 82
Mean 0.0002691
Std Dev 0.8553

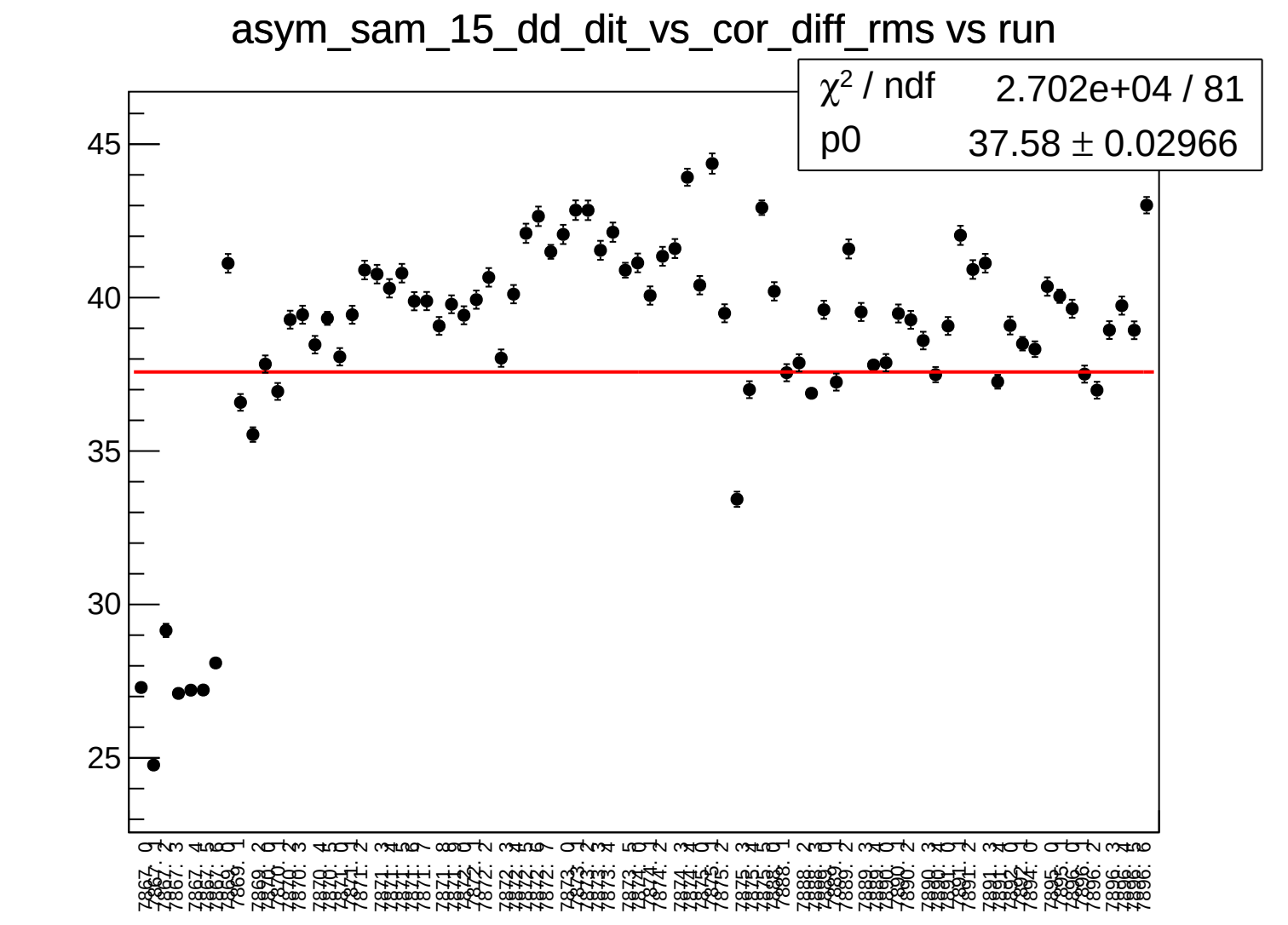

asym_sam_15_dd_rms vs run
χ² / ndf 2.615e+04 / 81
p0 527.6 ± 0.4164
800
750
700
650
600
550
500
450
400

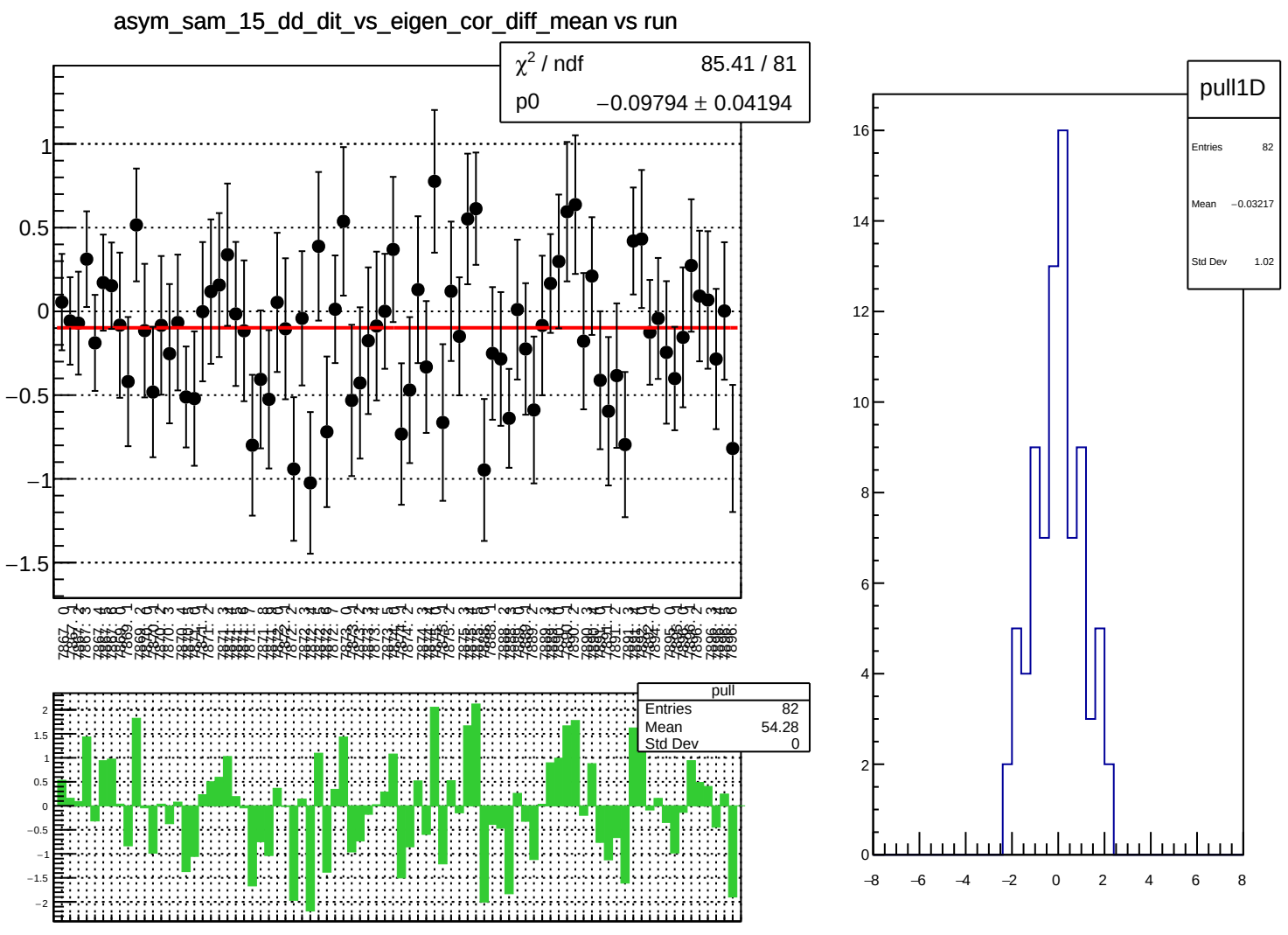

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 63.57 / 81
p0 −4.258e−14 ± 7.616e−14
pull
Entries 82
Mean 43.88
Std Dev 23.67

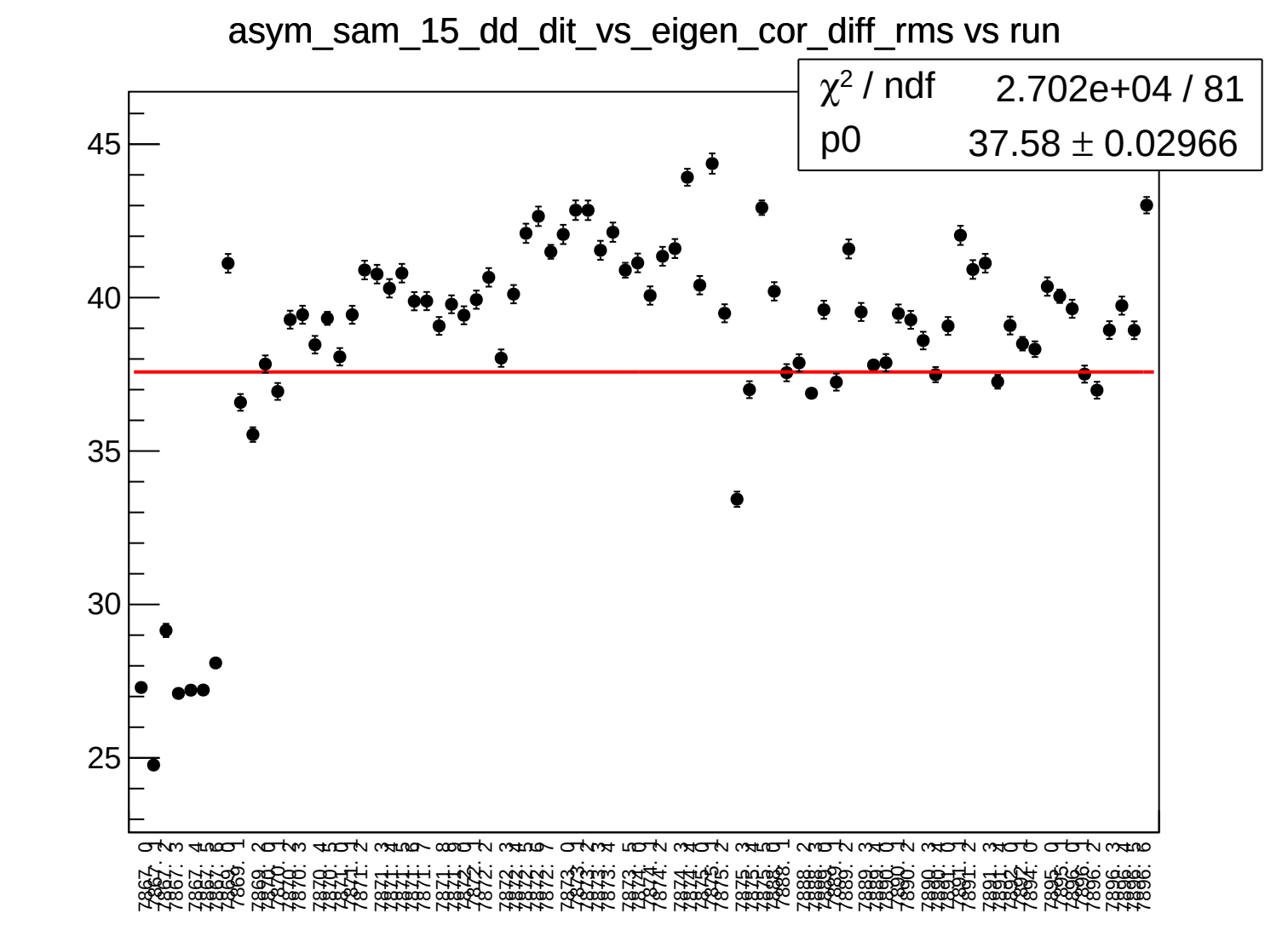

pull1D
Entries 82
Mean −0.1334
Std Dev 0.8703

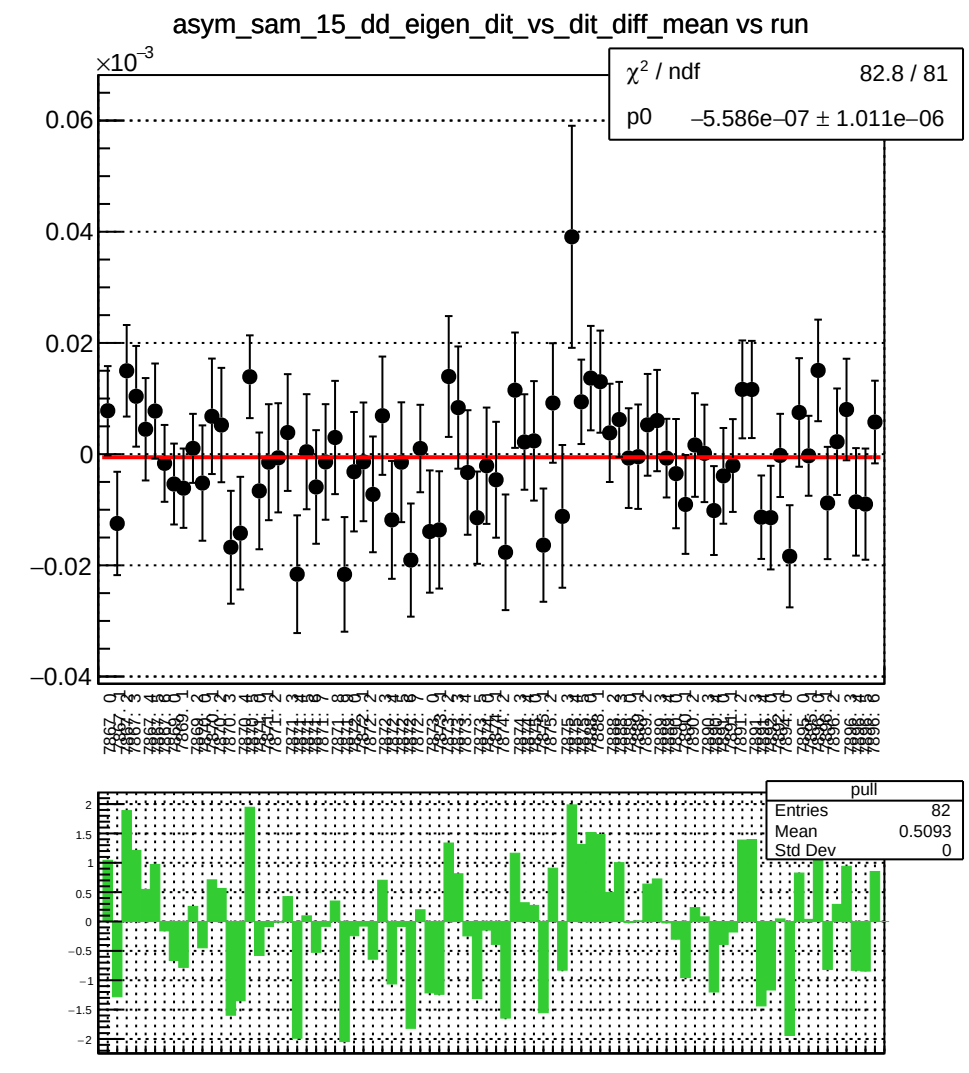

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.343e+05 / 81
p0 5.103e−11 ± 5.385e−14
0.05
0.04
0.03
0.02
0.01
0

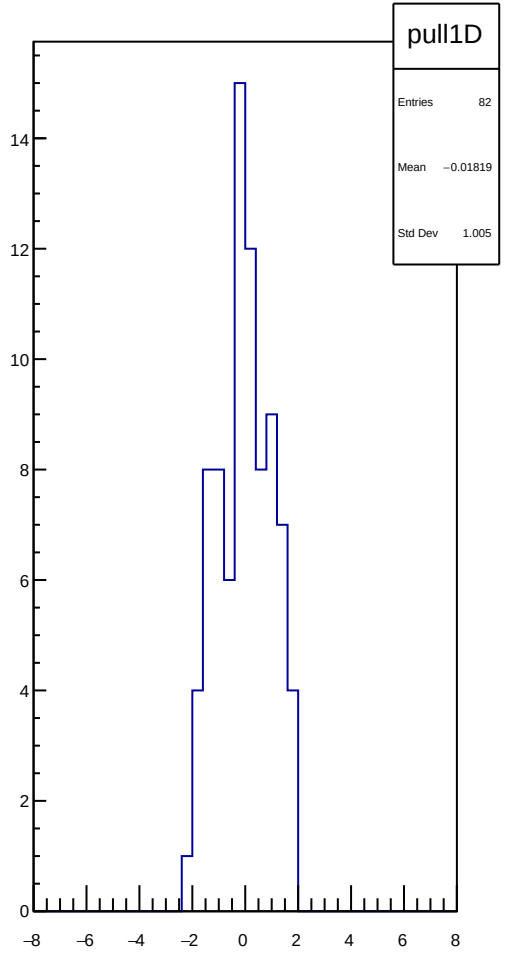

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.41 / 81
p0 −0.09794 ± 0.04194
pull
Entries 82
Mean 54.28
Std Dev 0
pull1D
Entries 82
Mean −0.03217
Std Dev 1.02

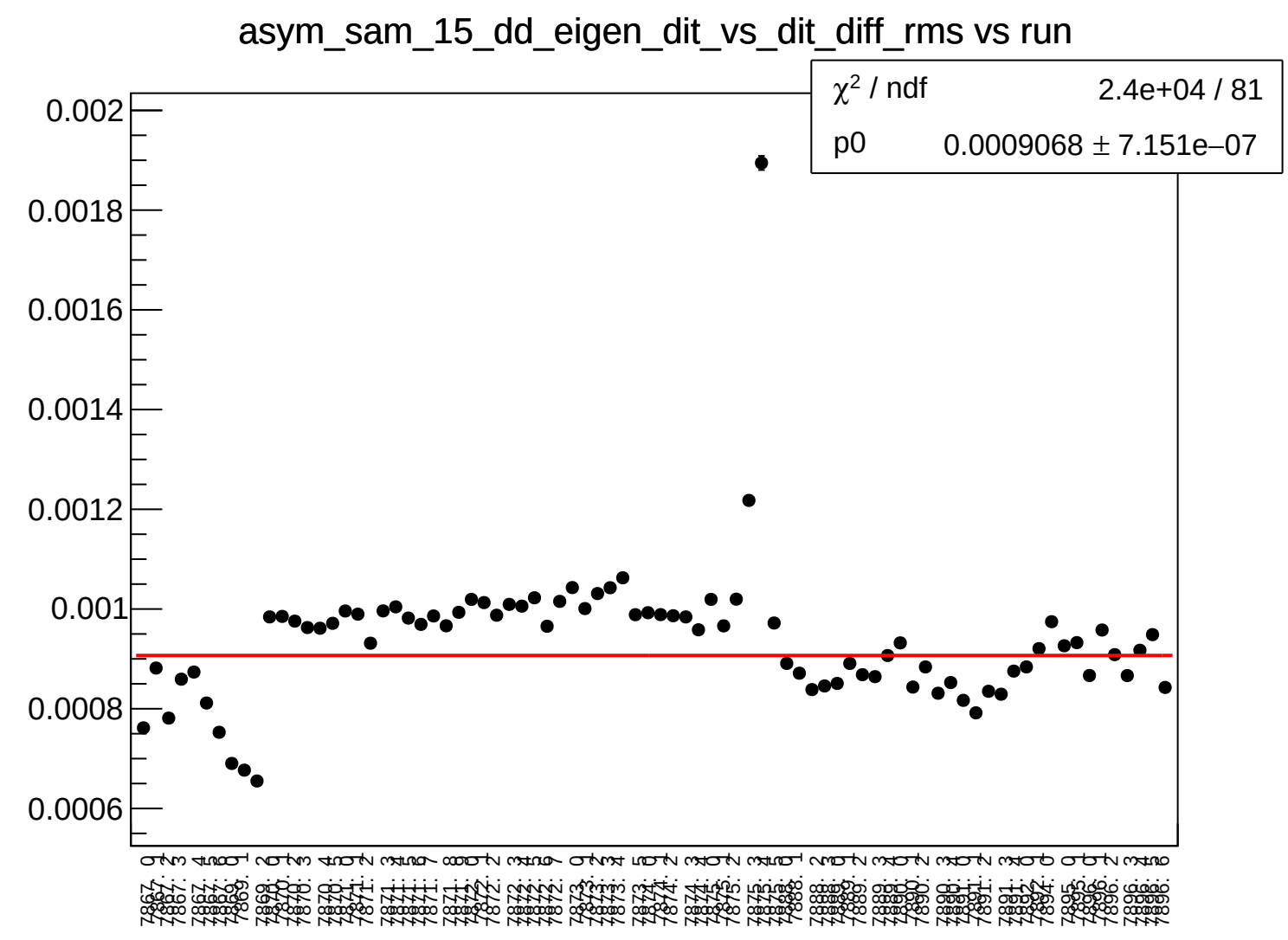

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 81
p0 37.58 ± 0.02966
45
40
35
30
25

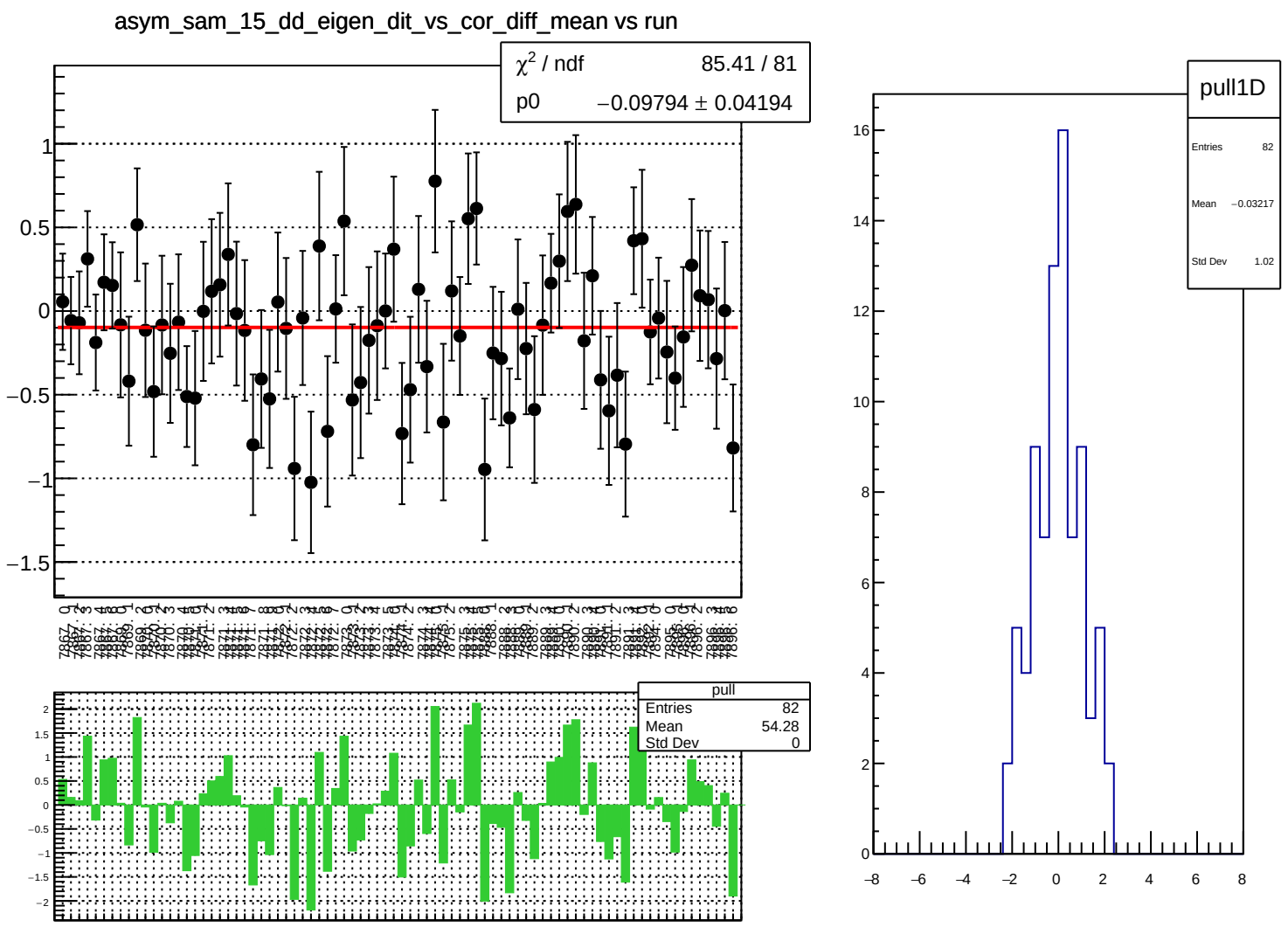

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.41 / 81
p0 −0.09794 ± 0.04194
pull
Entries 82
Mean 54.28
Std Dev 0
pull1D
Entries 82
Mean −0.03217
Std Dev 1.02

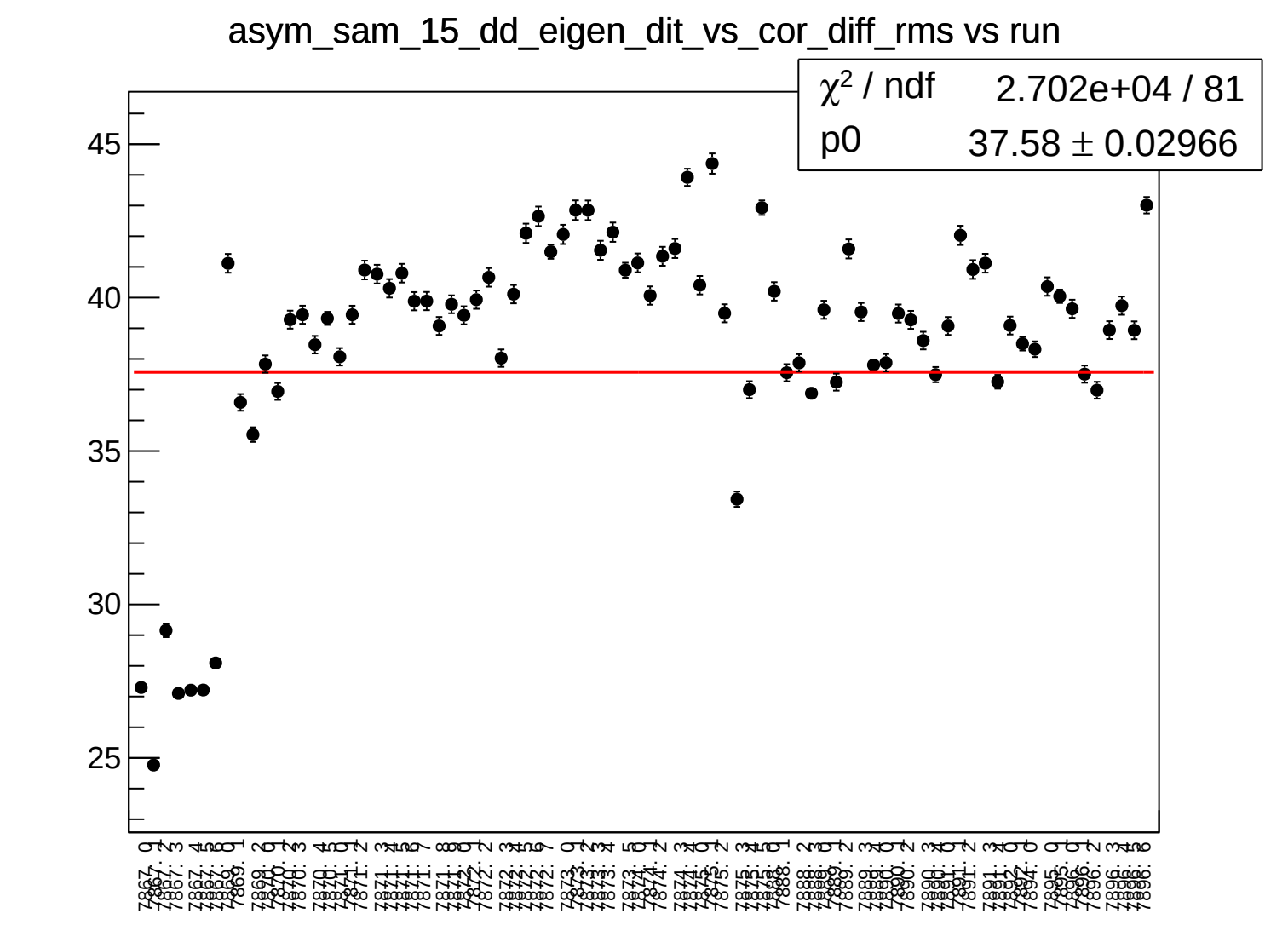

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 81
p0 37.58 ± 0.02966
45
40
35
30
25

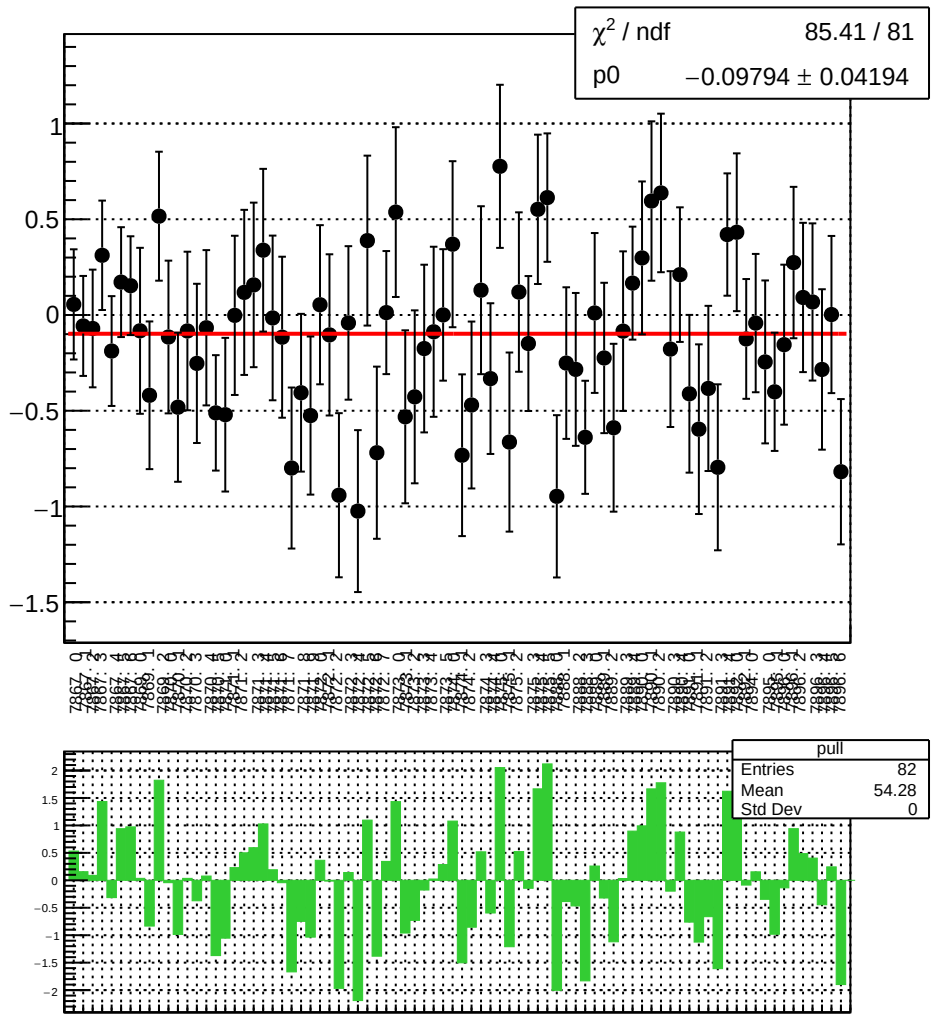

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.8 / 81
p0 −5.586e−07 ± 1.011e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 82
Mean 0.5093
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

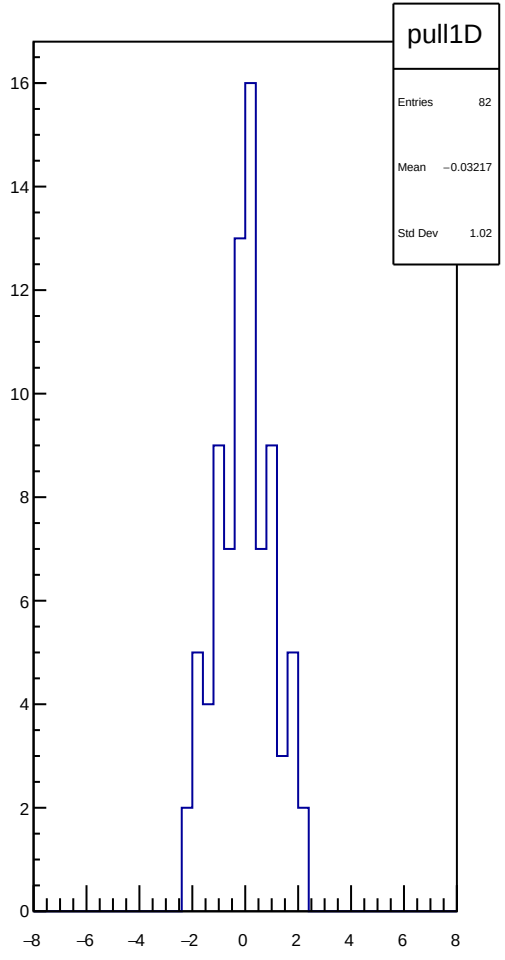

pull1D
Entries 82
Mean −0.01819
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

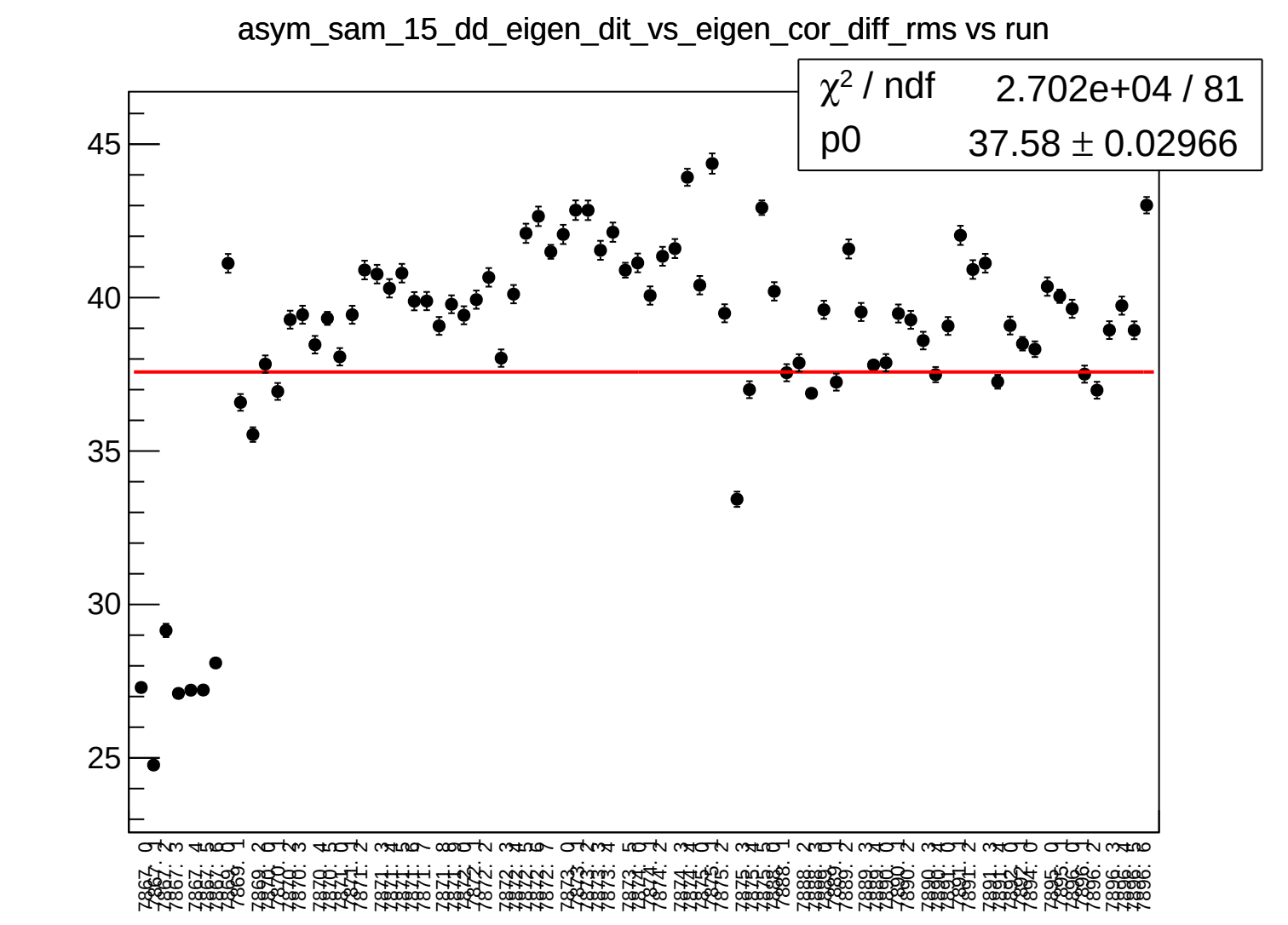

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.4e+04 / 81
p0 0.0009068 ± 7.151e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

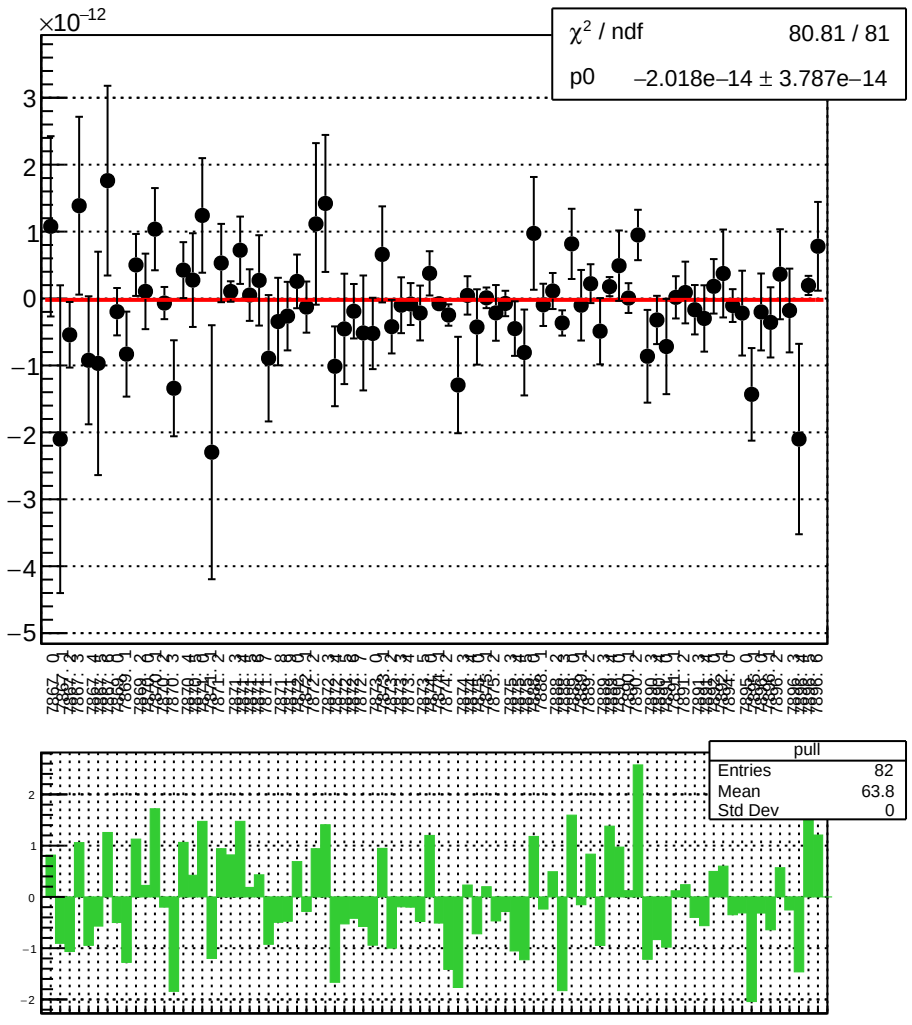

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.41 / 81
p0 −0.09794 ± 0.04194
pull
Entries 82
Mean 54.28
Std Dev 0
pull1D
Entries 82
Mean −0.03217
Std Dev 1.02

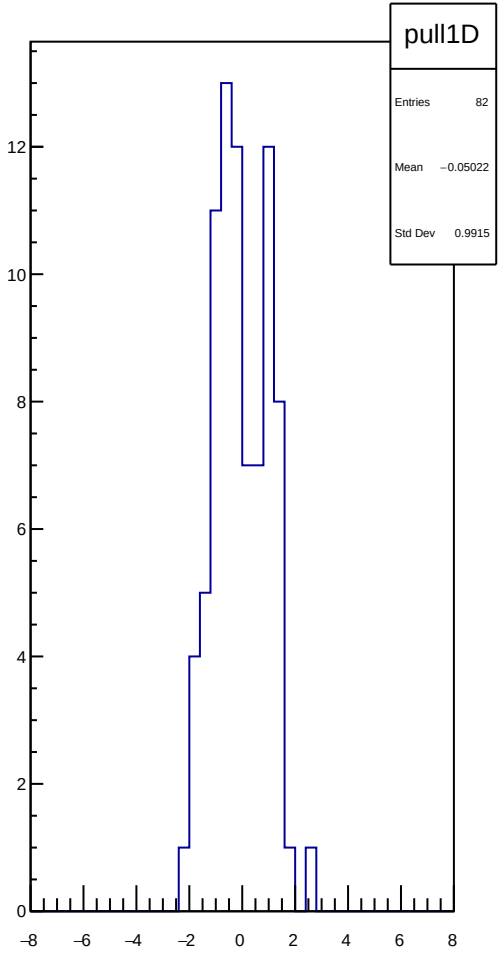

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 81
p0 37.58 ± 0.02966
45
40
35
30
25

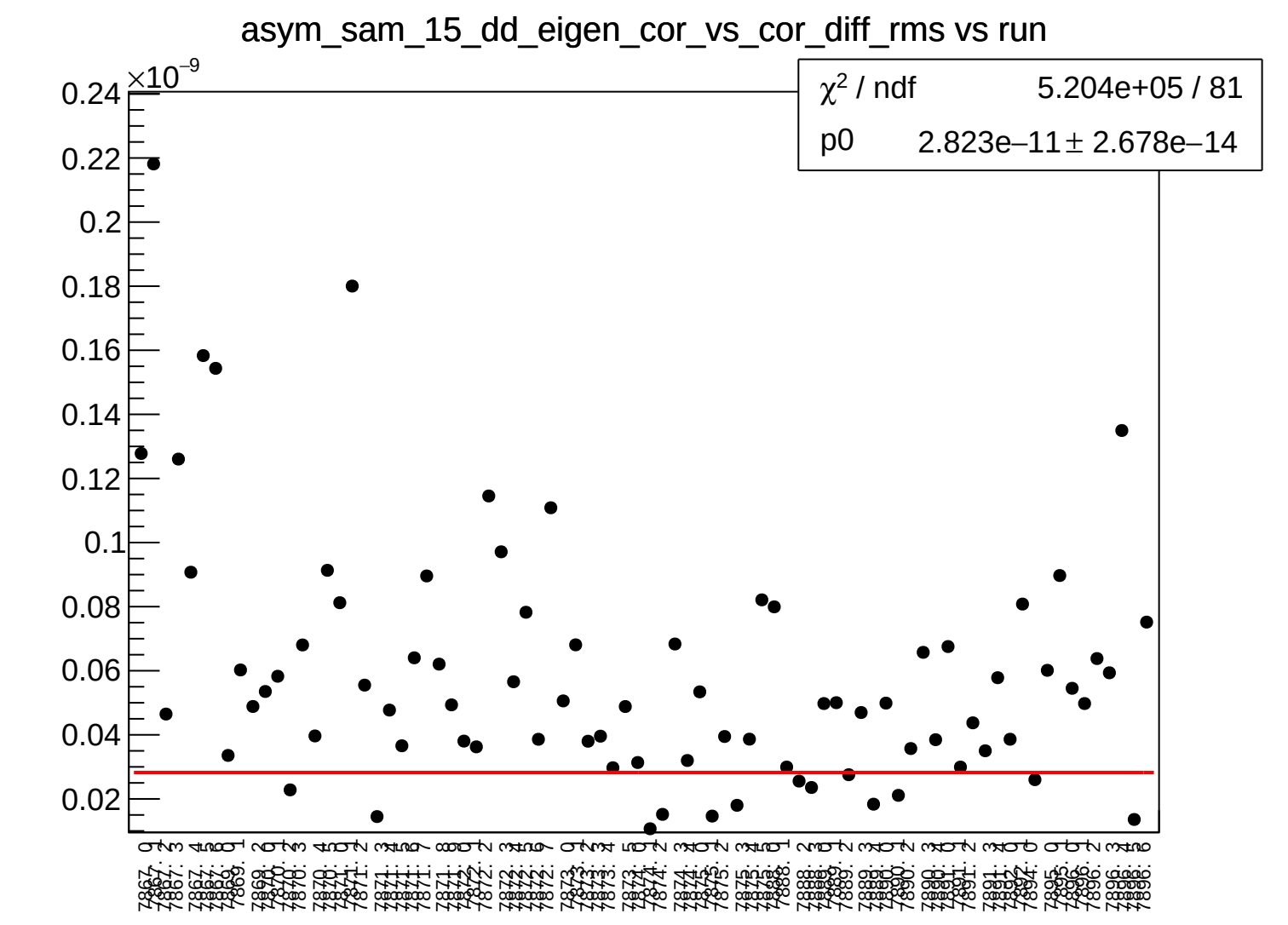

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.41 / 81
p0 −0.09794 ± 0.04194
pull
Entries 82
Mean 54.28
Std Dev 0

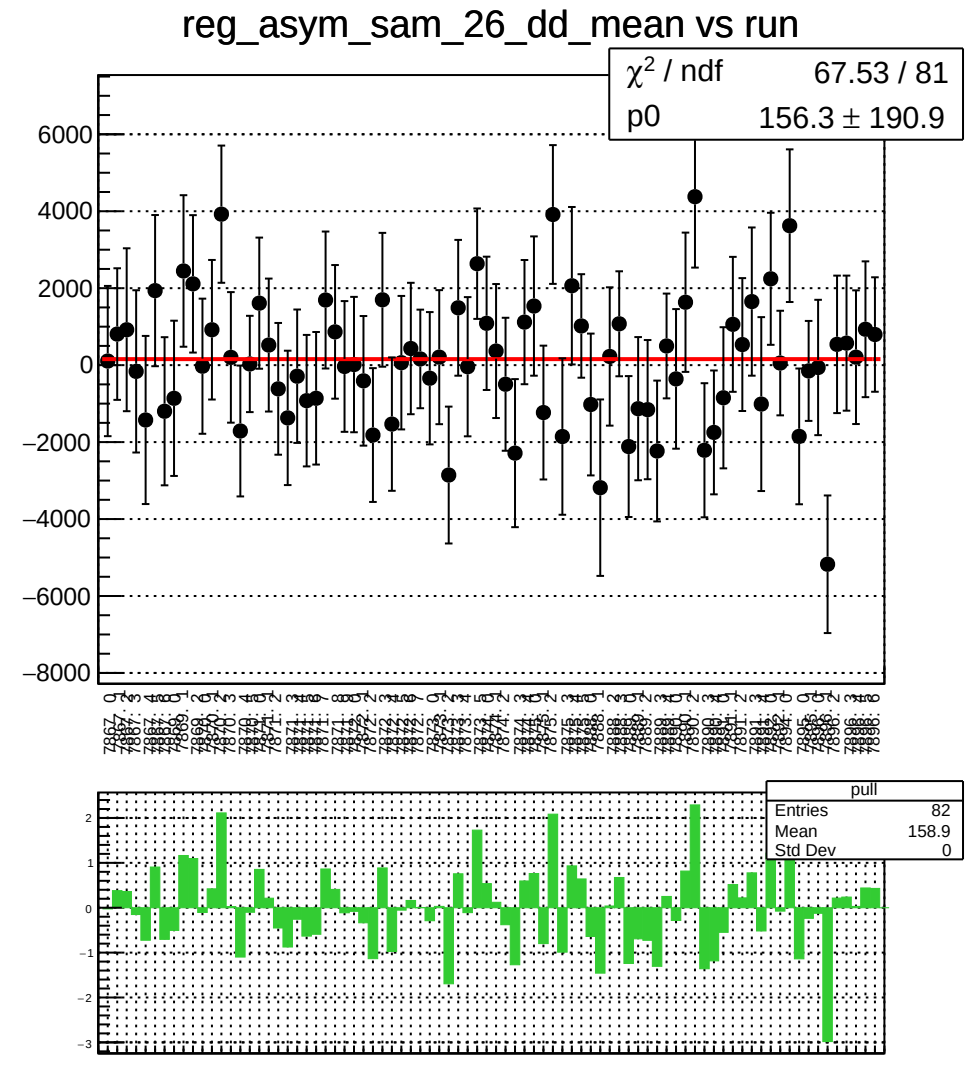

pull1D
Entries 82
Mean −0.03217
Std Dev 1.02

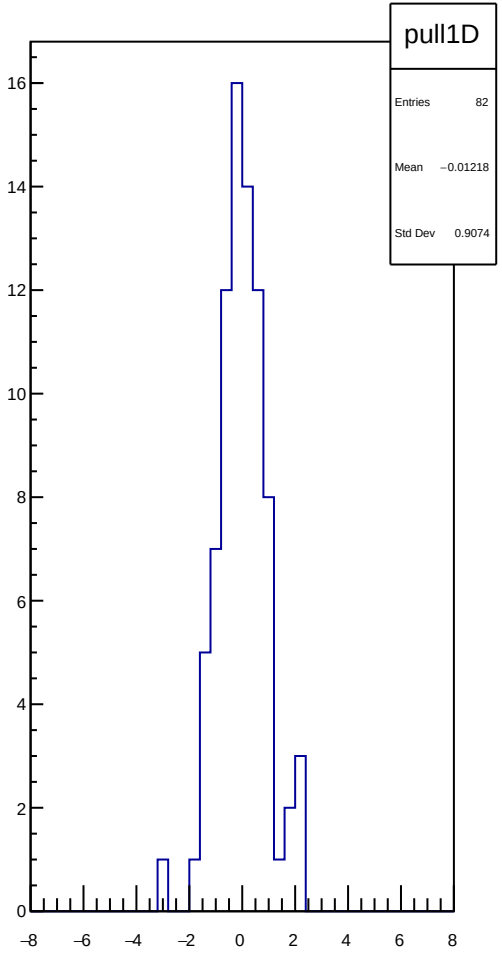

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 81
p0 37.58 ± 0.02966
45
40
35
30
25

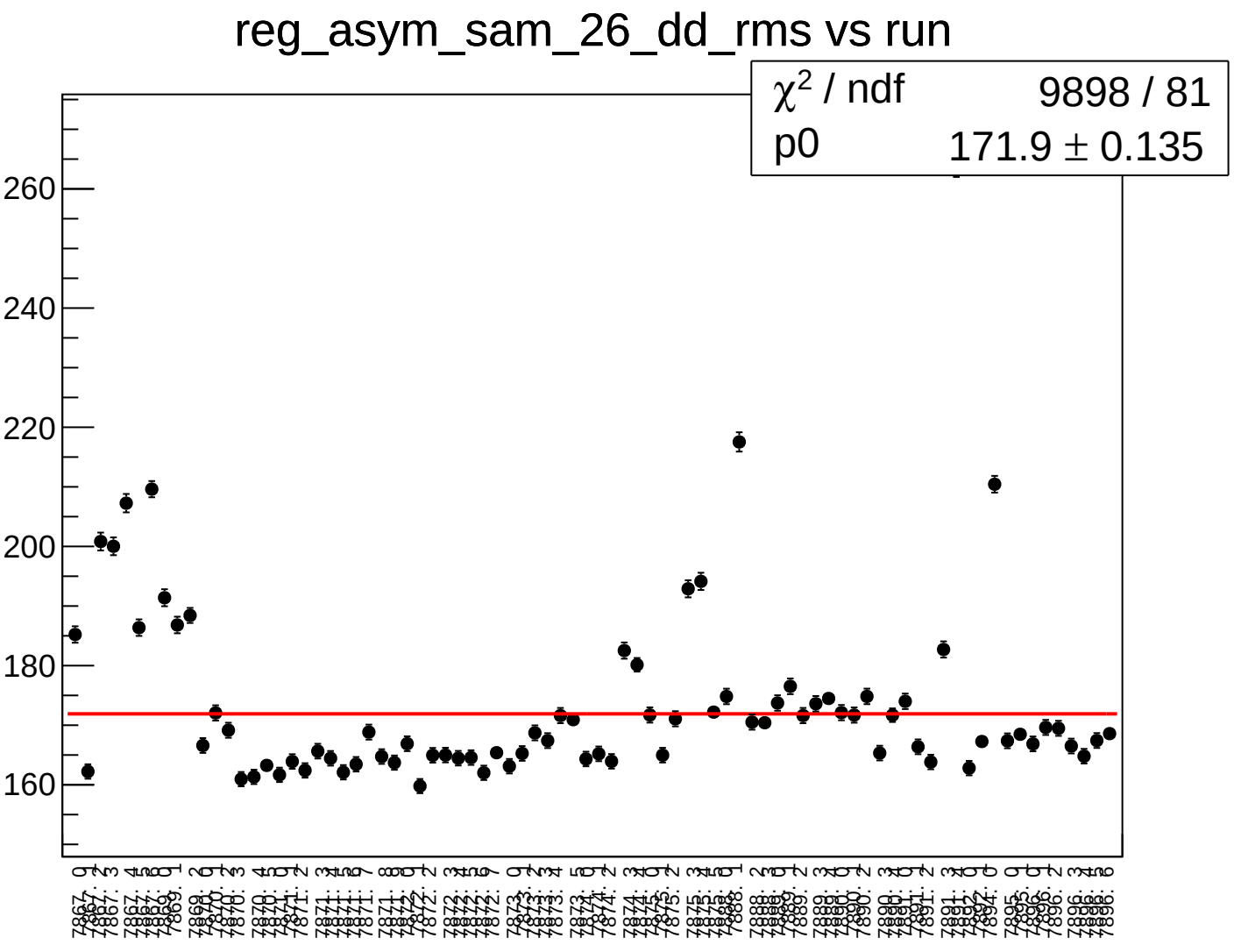

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.81 / 81
p0 −2.018e−14 ± 3.787e−14
pull
Entries 82
Mean 63.8
Std Dev 0

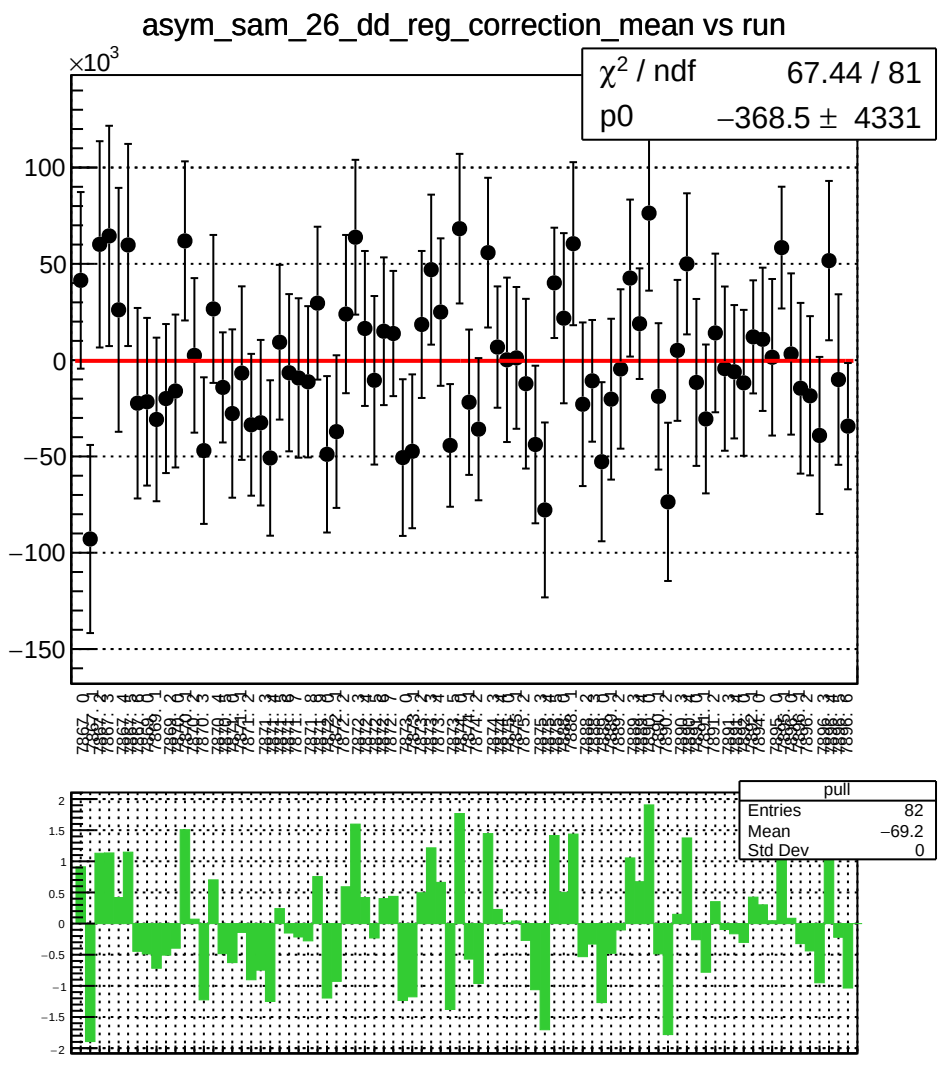

pull1D
Entries 82
Mean −0.05022
Std Dev 0.9915

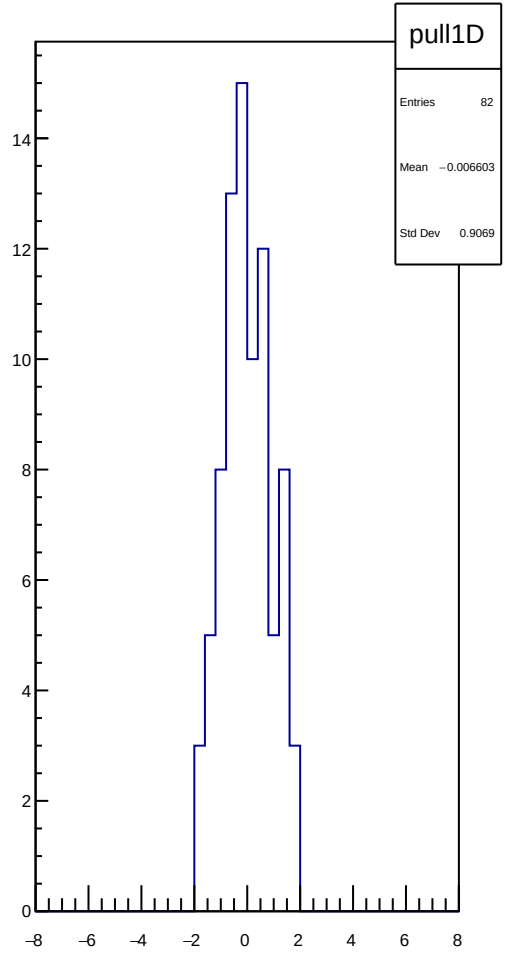

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.204e+05 / 81
p0 2.823e−11 ± 2.678e−14
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

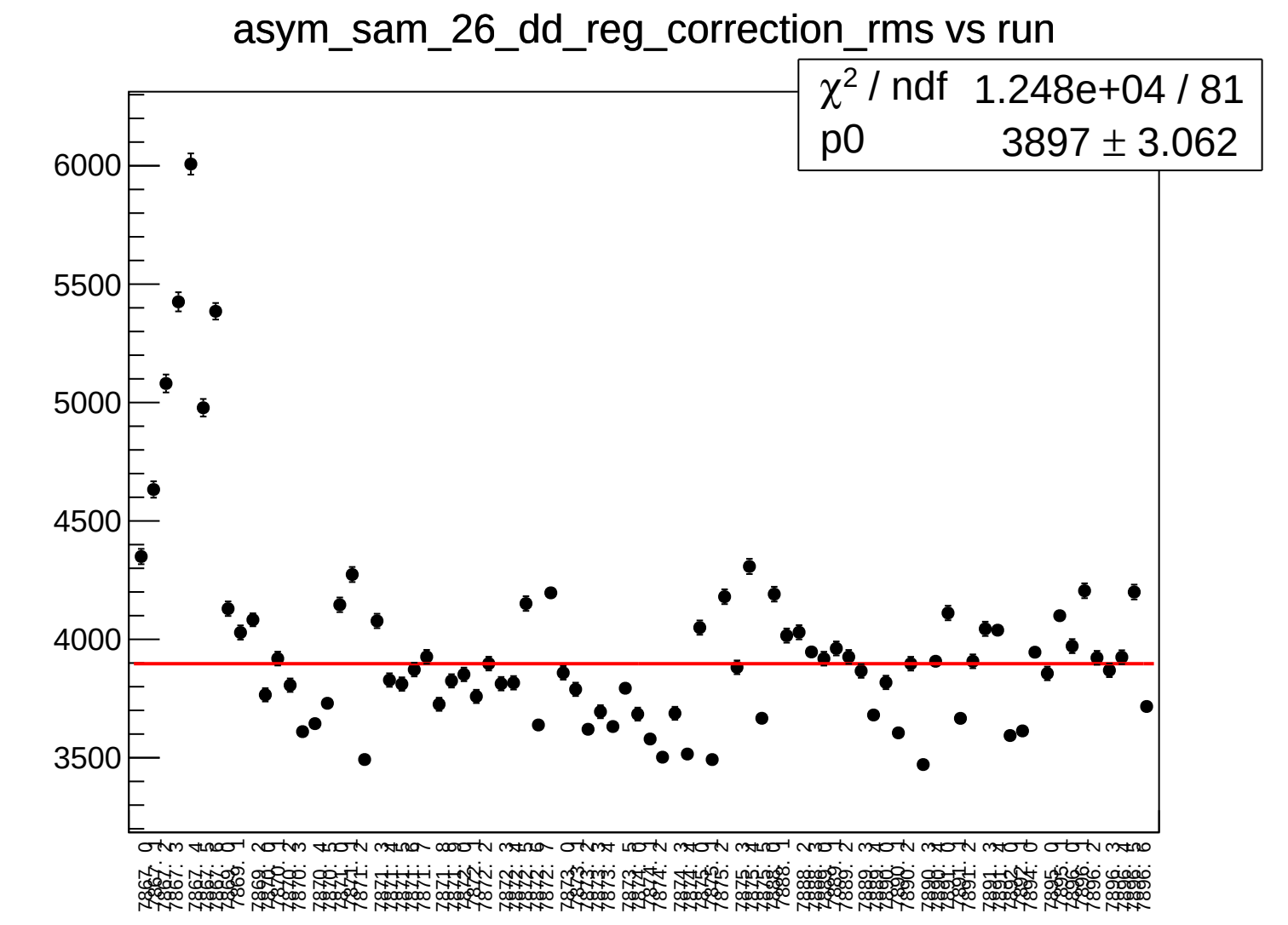

reg_asym_sam_26_dd_mean vs run
χ² / ndf 67.53 / 81
p0 156.3 ± 190.9
pull
Entries 82
Mean 158.9
Std Dev 0

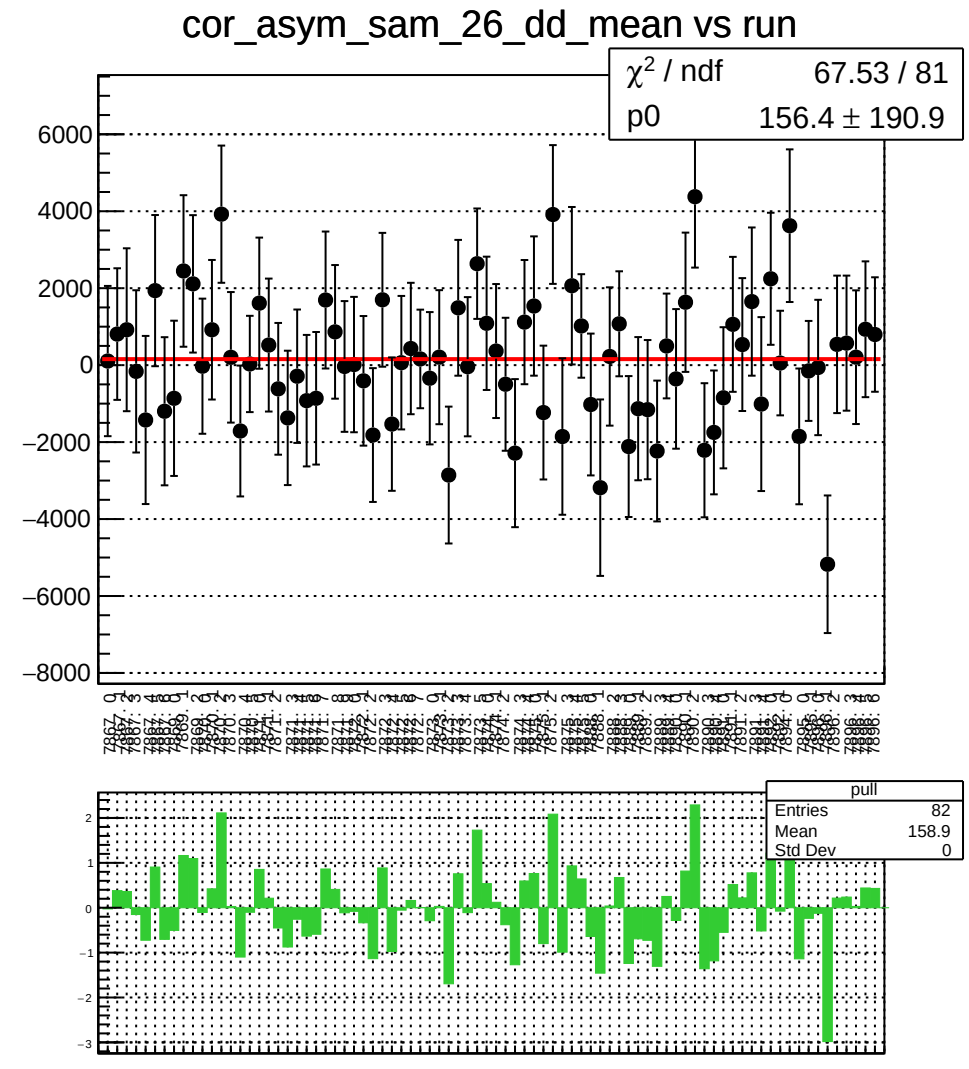

pull1D
Entries 82
Mean −0.01218
Std Dev 0.9074

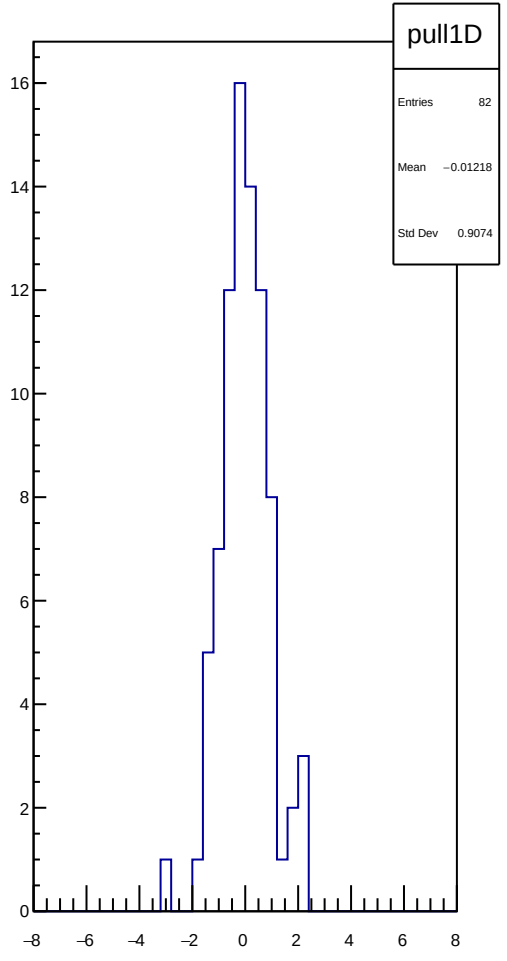

reg_asym_sam_26_dd_rms vs run
χ² / ndf 9898 / 81
p0 171.9 ± 0.135
260
240
220
200
180
160

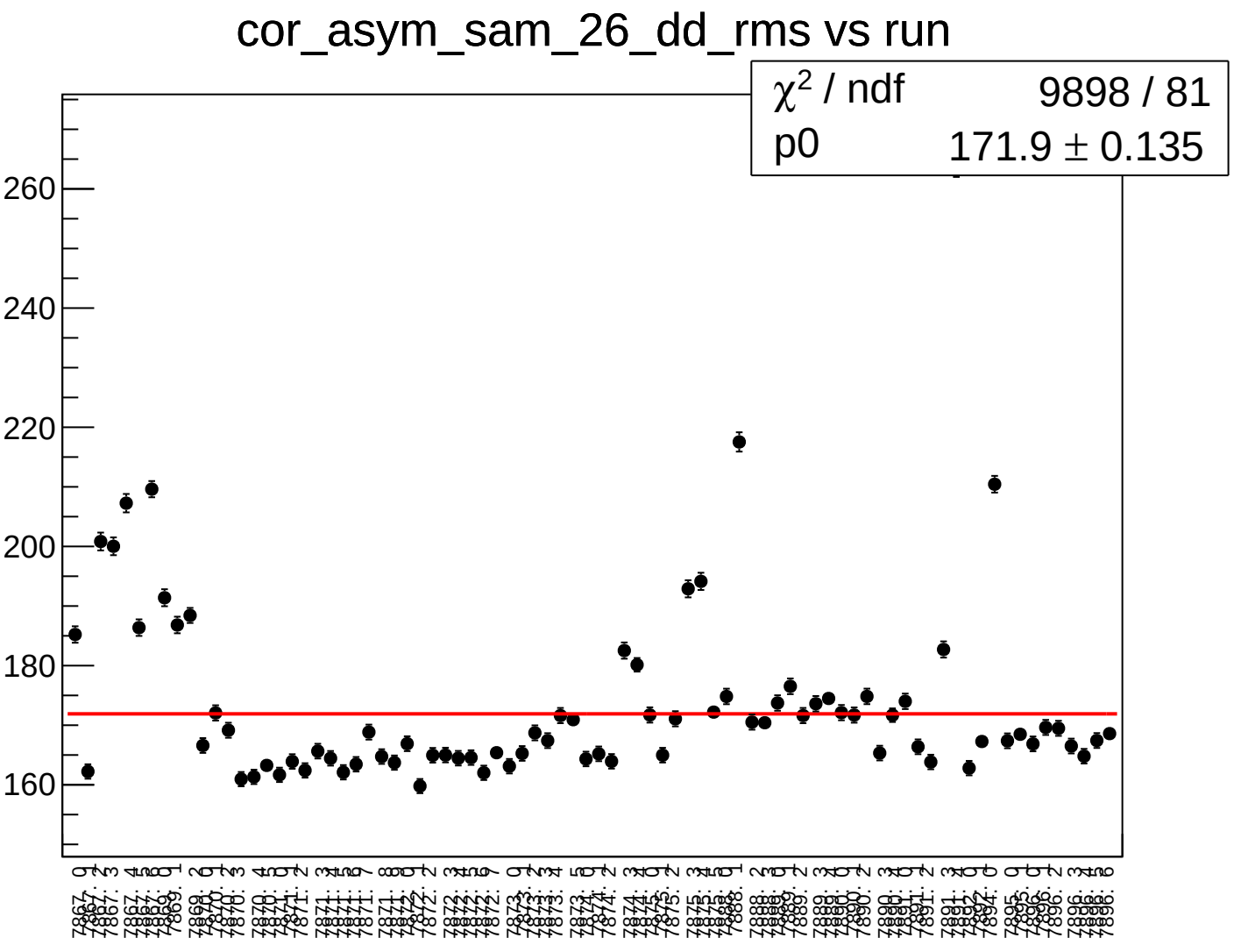

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.44 / 81
p0 −368.5 ± 4331
100
50
0
−50
−100
−150
pull
Entries 82
Mean −69.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

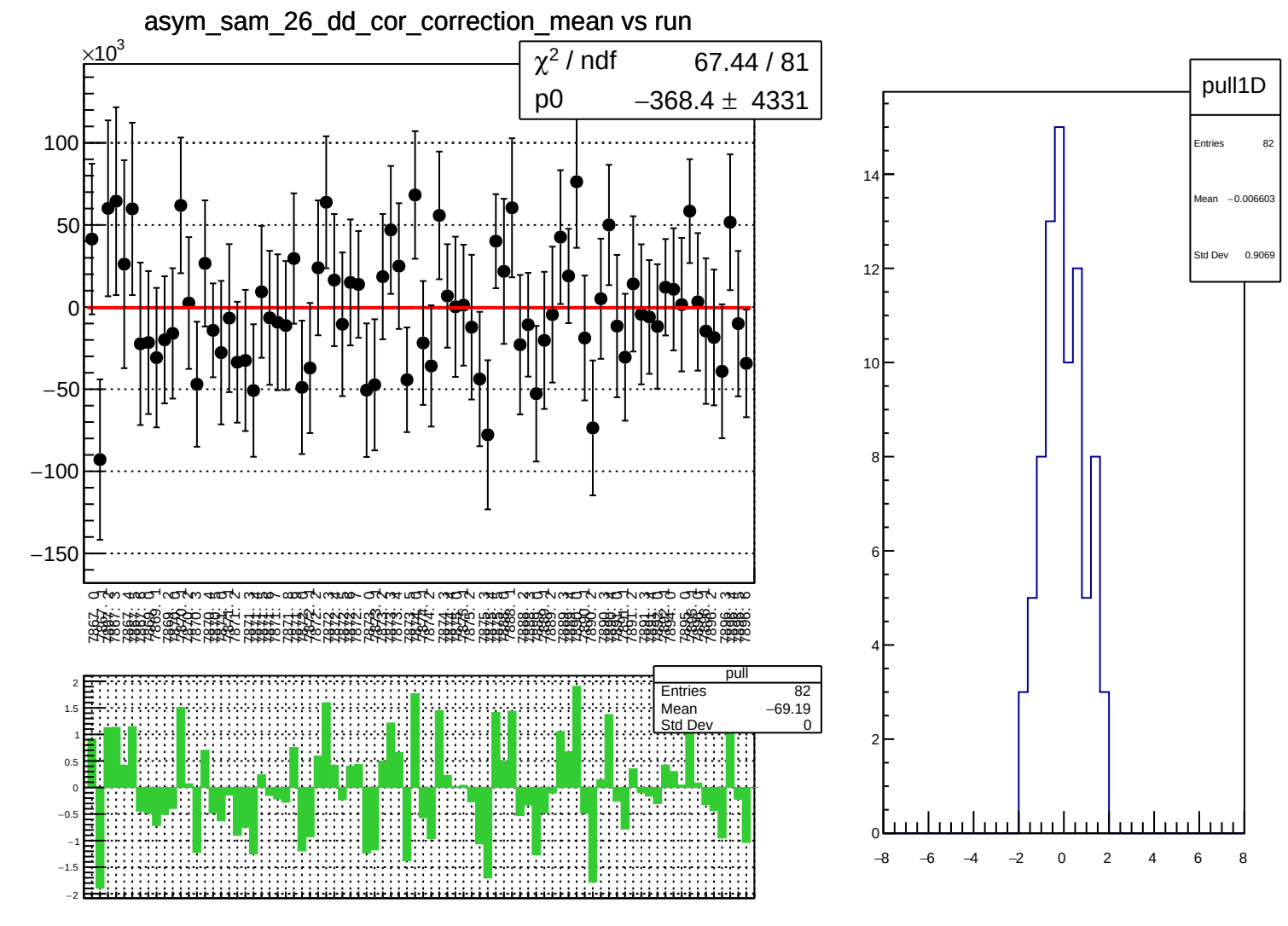

pull1D
Entries 82
Mean −0.006603
Std Dev 0.9069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

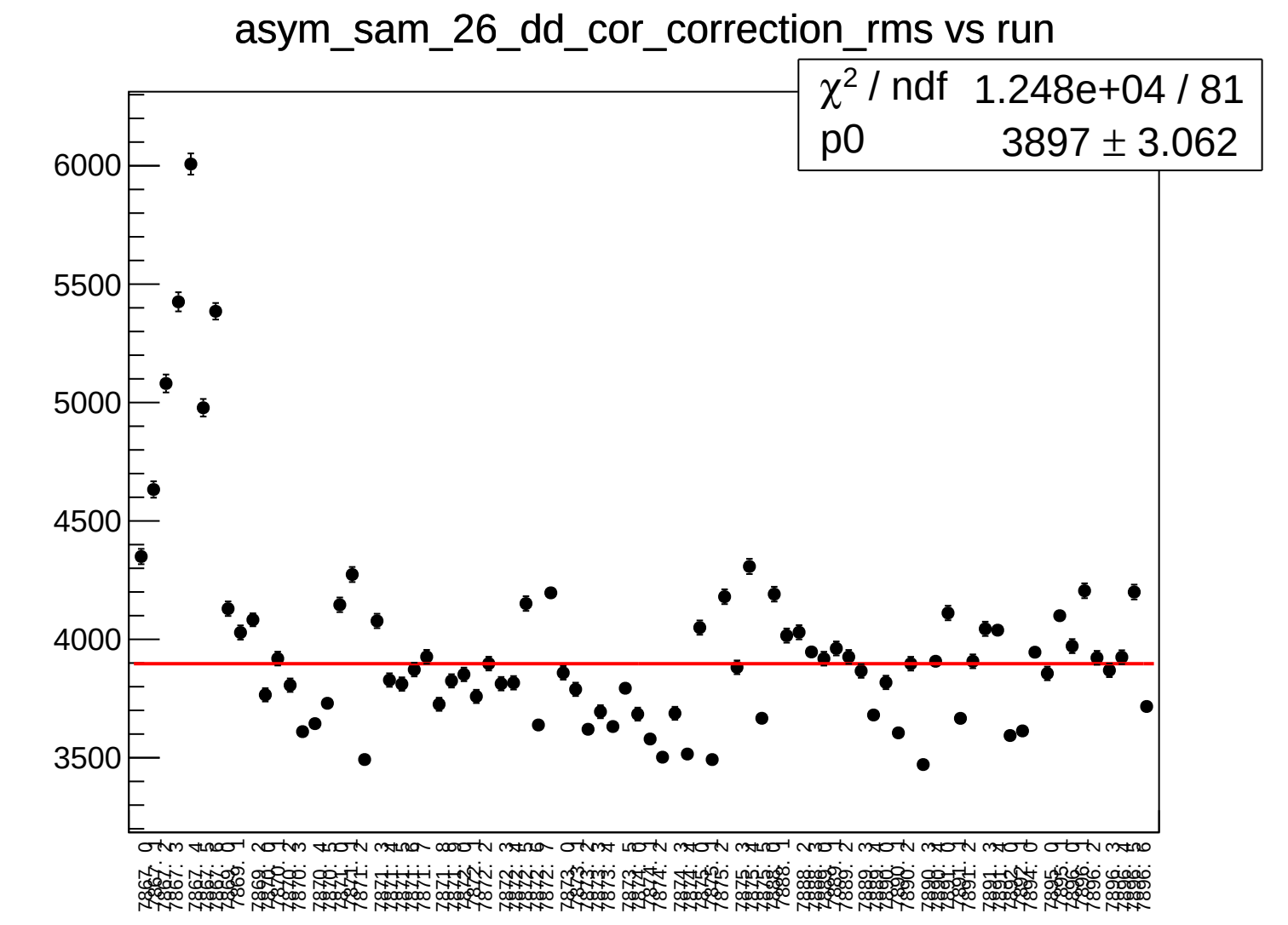

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.248e+04 / 81
p0 3897 ± 3.062
6000
5500
5000
4500
4000
3500

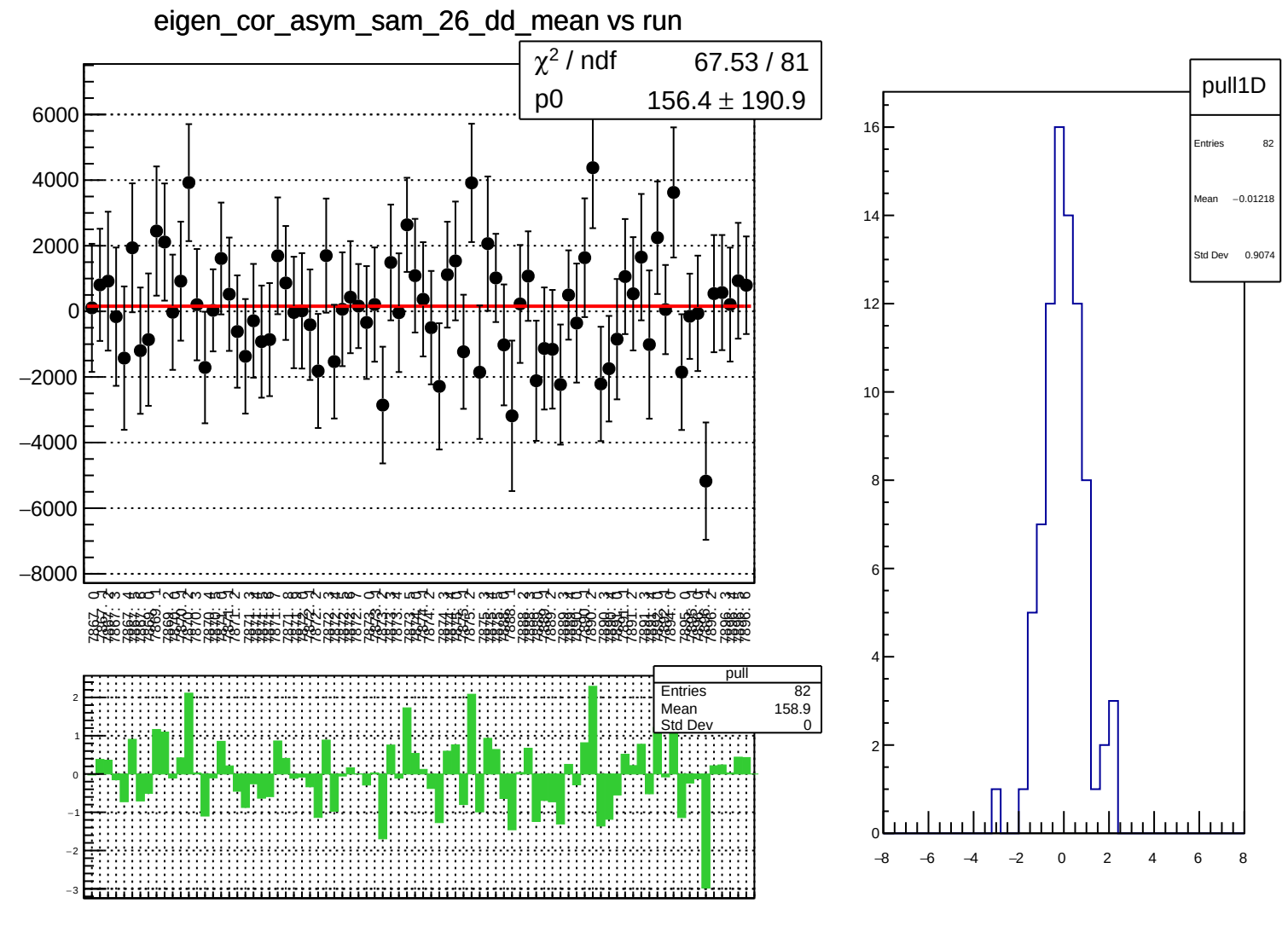

cor_asym_sam_26_dd_mean vs run
χ² / ndf 67.53 / 81
p0 156.4 ± 190.9
pull
Entries 82
Mean 158.9
Std Dev 0

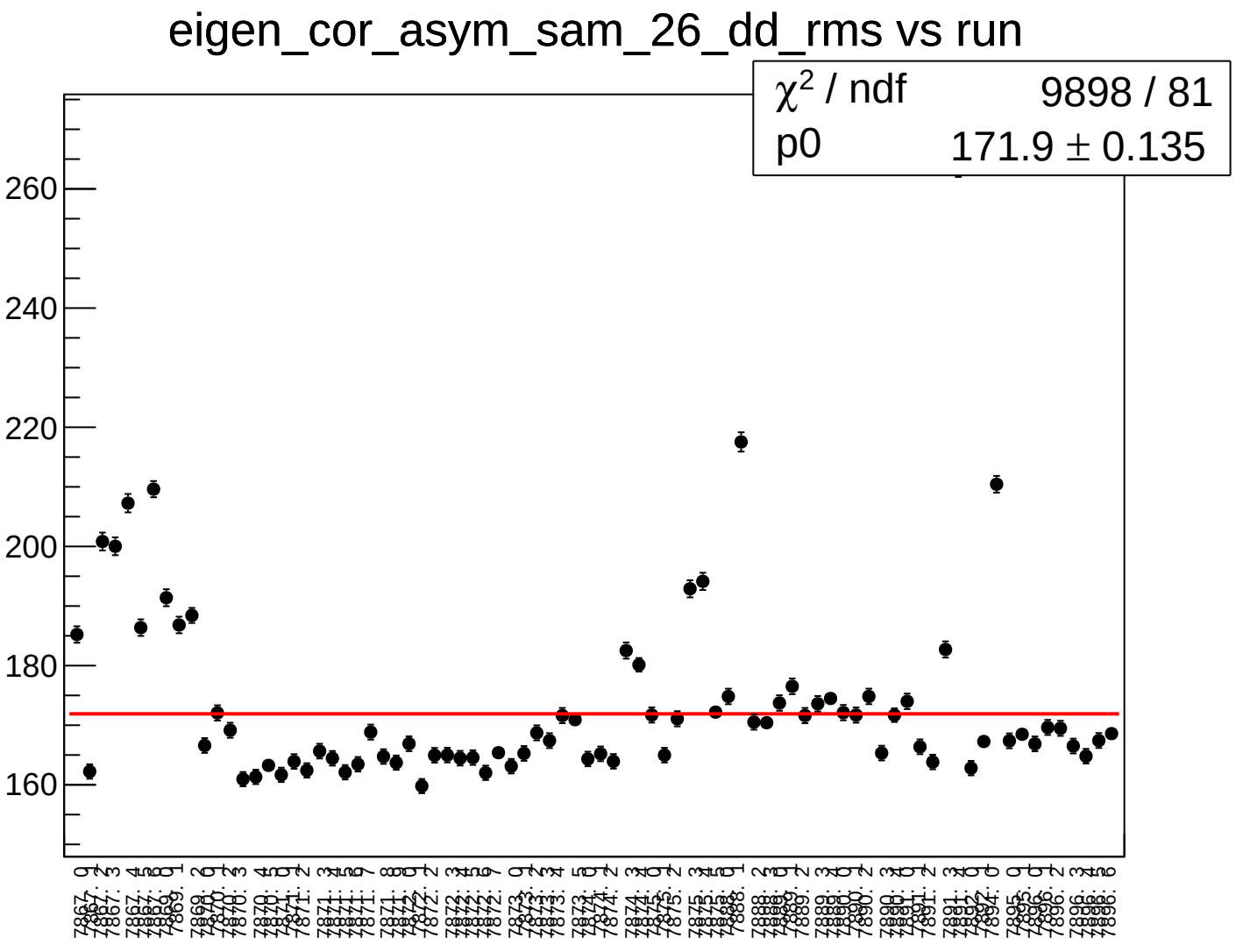

pull1D
Entries 82
Mean −0.01218
Std Dev 0.9074

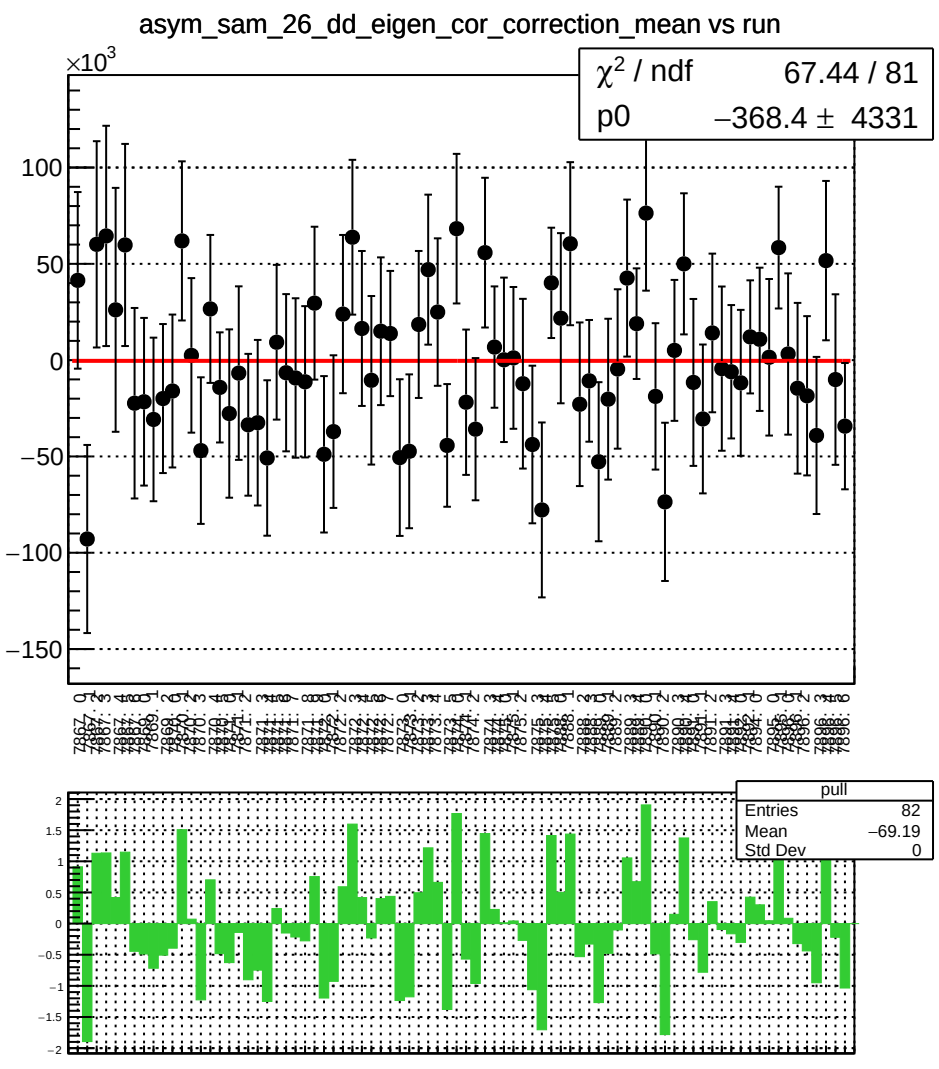

cor_asym_sam_26_dd_rms vs run
χ² / ndf 9898 / 81
p0 171.9 ± 0.135
260
240
220
200
180
160

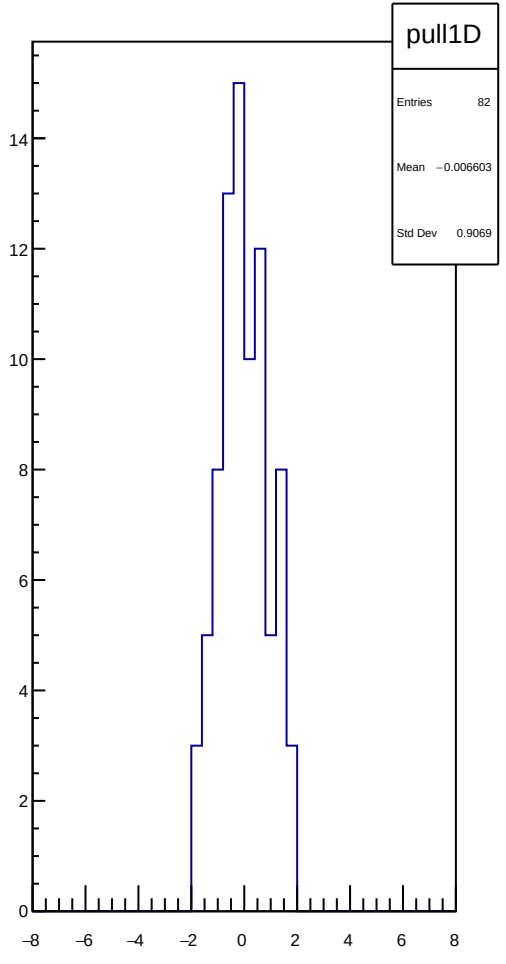

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 67.44 / 81
p0 −368.4 ± 4331
100
50
0
−50
−100
−150
pull
Entries 82
Mean −69.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.006603
Std Dev 0.9069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

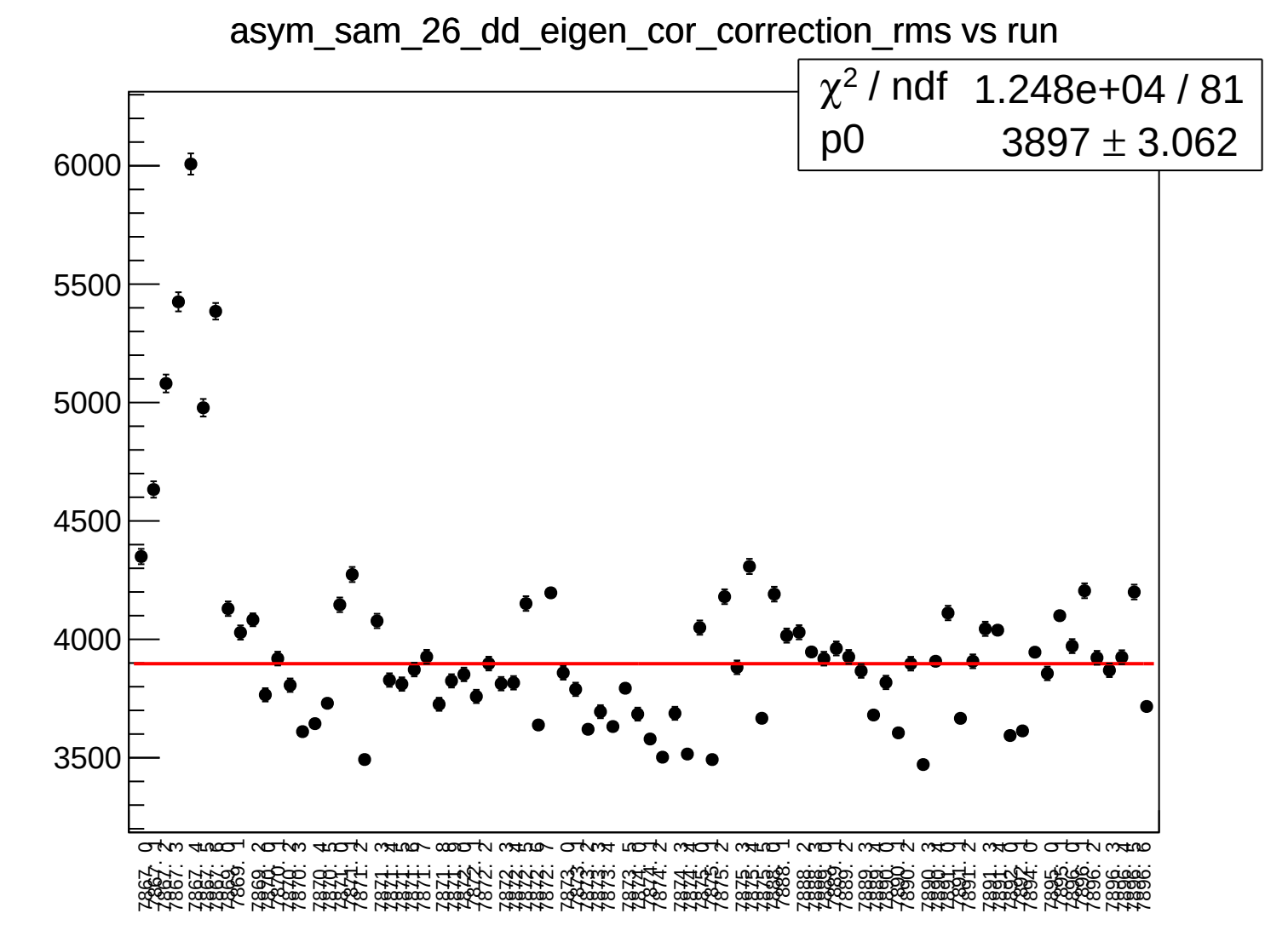

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.248e+04 / 81
p0 3897 ± 3.062
6000
5500
5000
4500
4000
3500

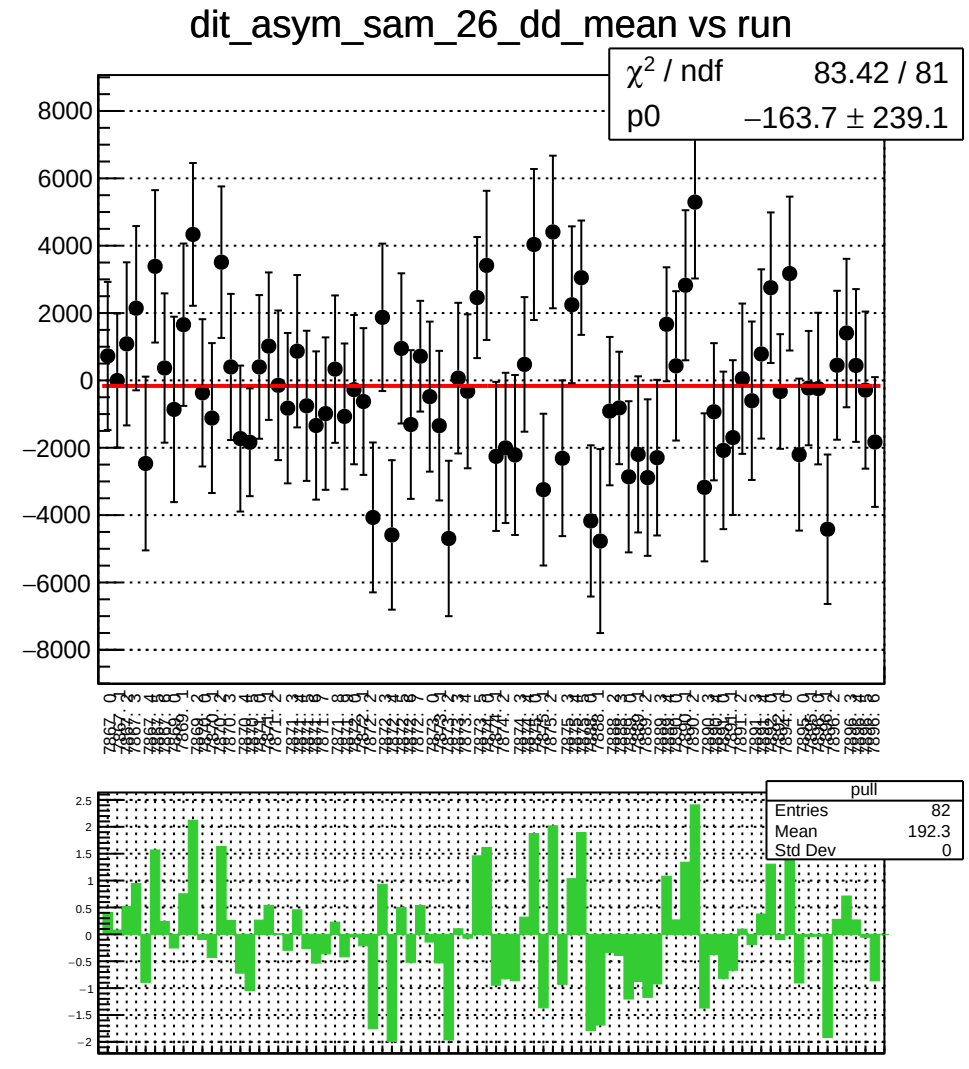

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 67.53 / 81
p0 156.4 ± 190.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean 158.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01218
Std Dev 0.9074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

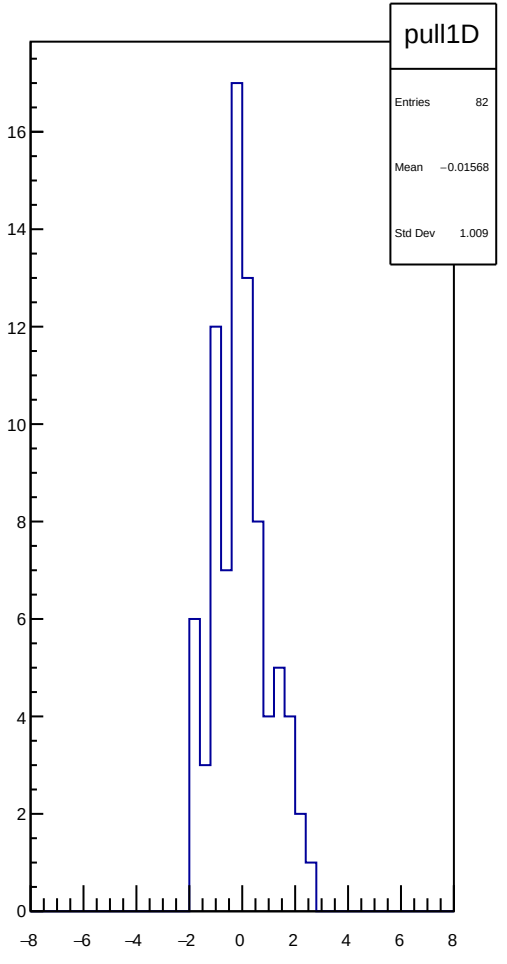

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 9898 / 81
p0 171.9 ± 0.135
260
240
220
200
180
160

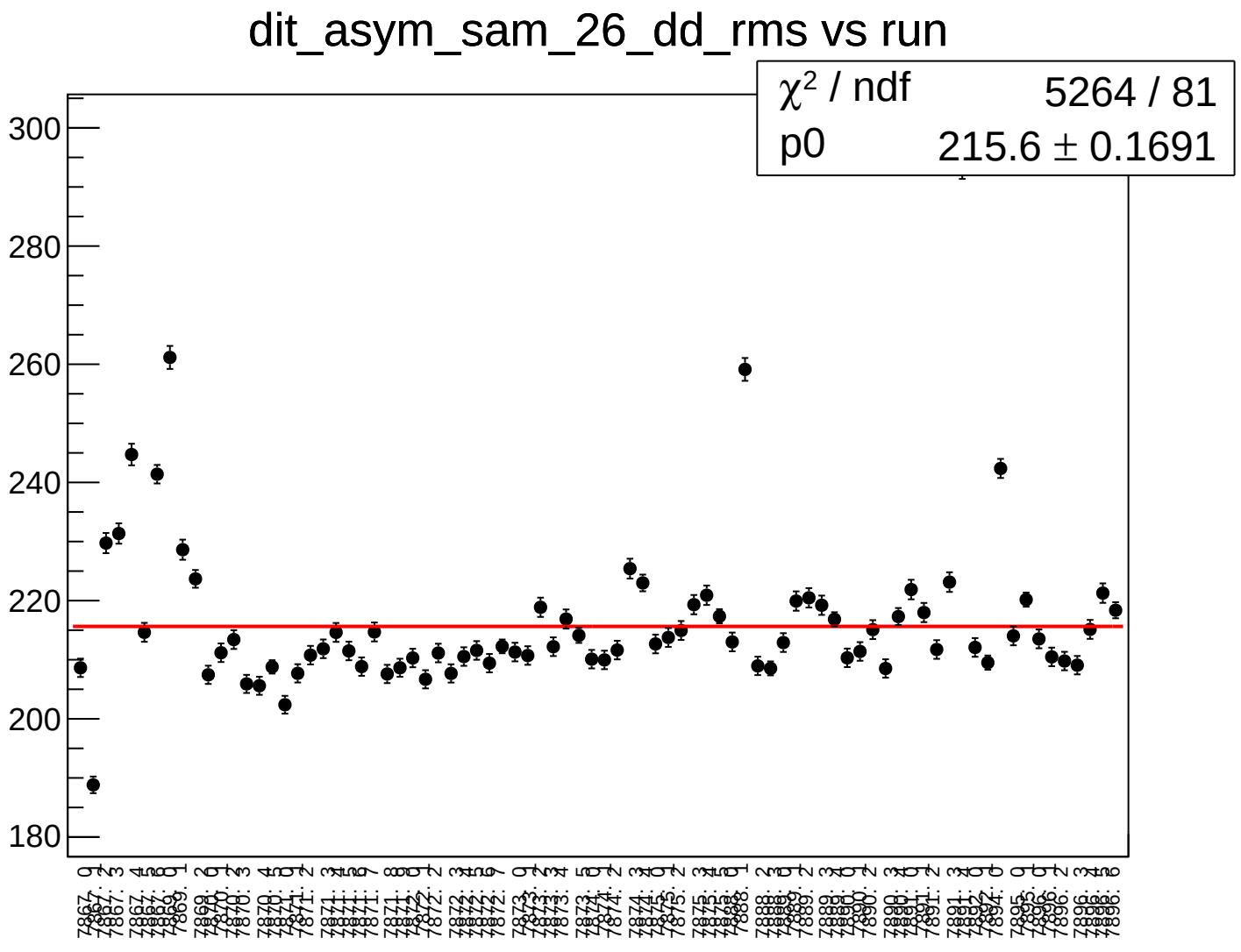

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.44 / 81
p0 −368.4 ± 4331
100
50
0
−50
−100
−150
pull
Entries 82
Mean −69.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

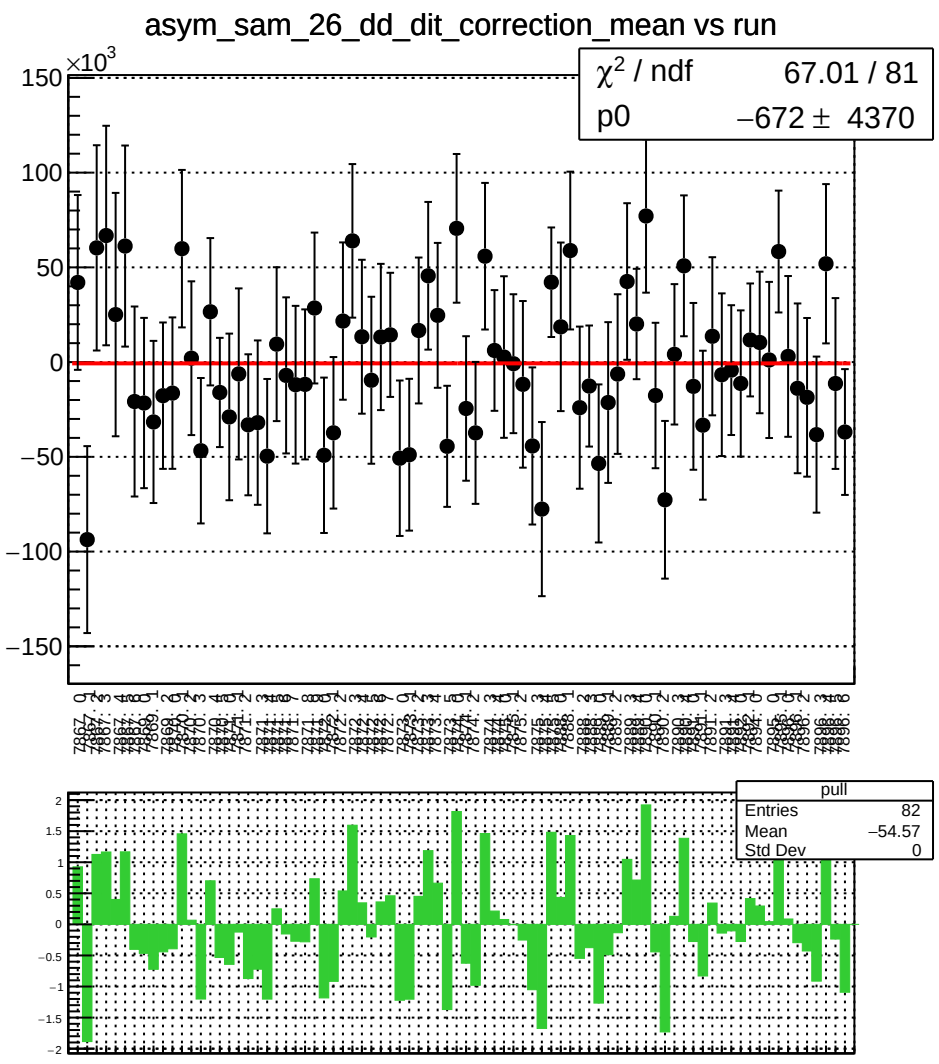

pull1D
Entries 82
Mean −0.006603
Std Dev 0.9069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

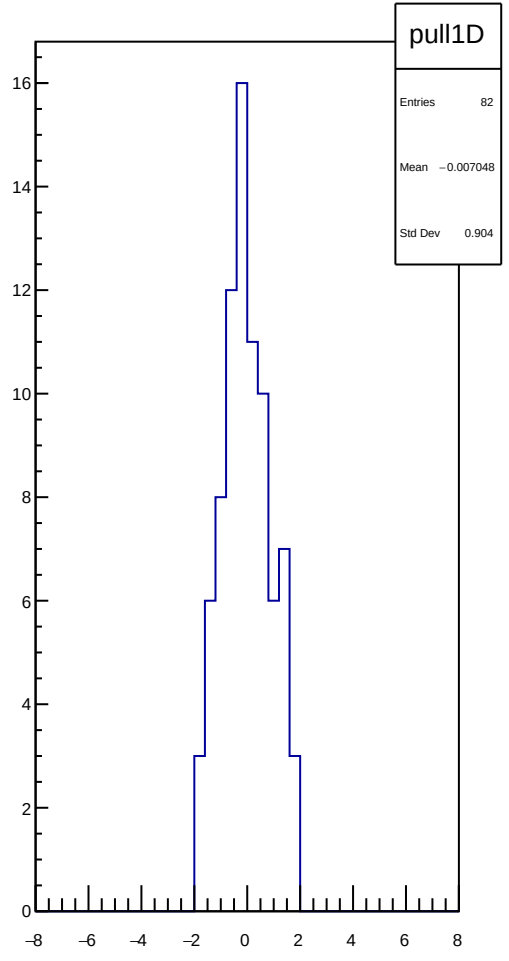

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.248e+04 / 81
p0 3897 ± 3.062
6000
5500
5000
4500
4000
3500

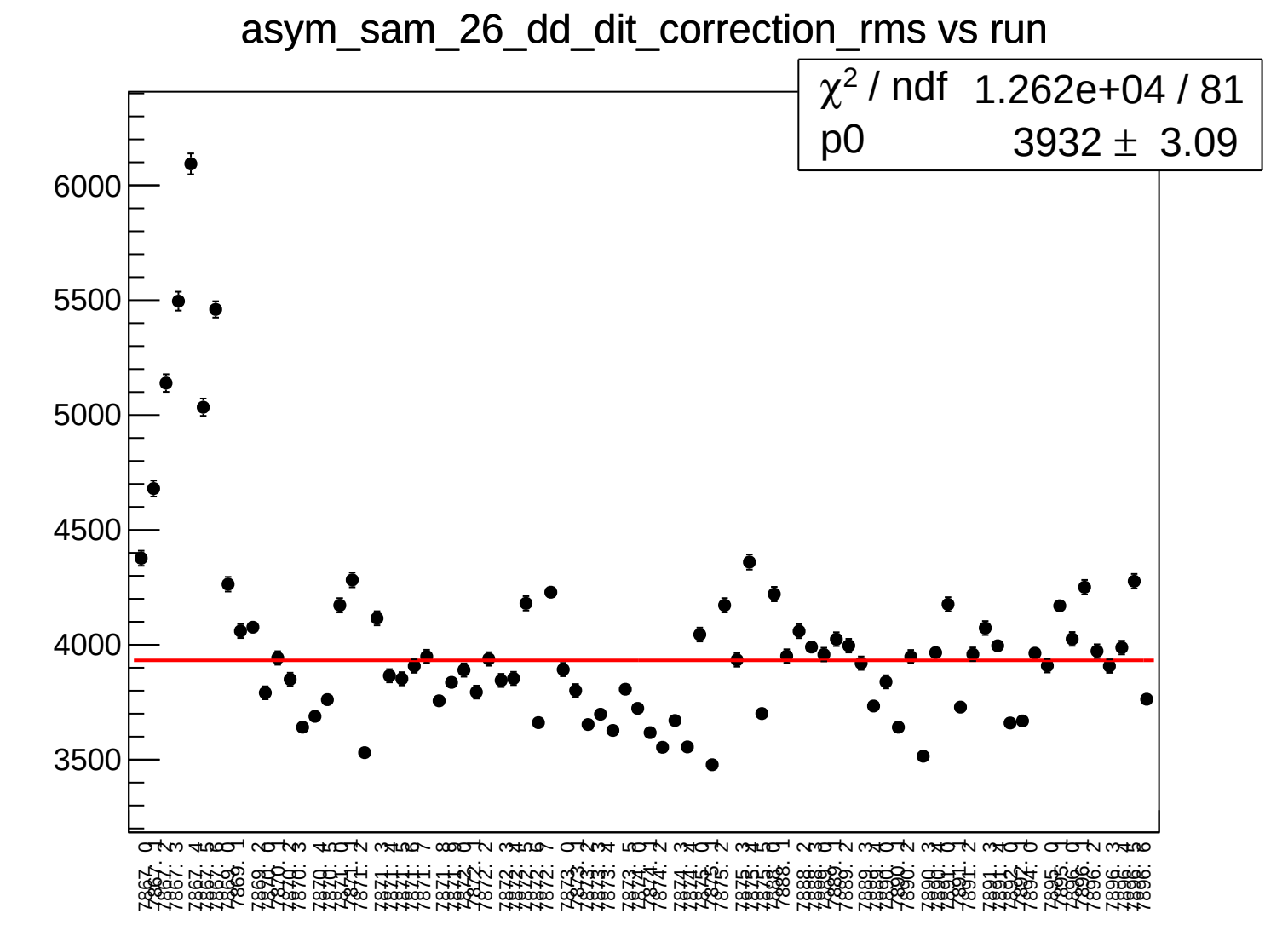

dit_asym_sam_26_dd_mean vs run
χ² / ndf 83.42 / 81
p0 −163.7 ± 239.1
pull
Entries 82
Mean 192.3
Std Dev 0

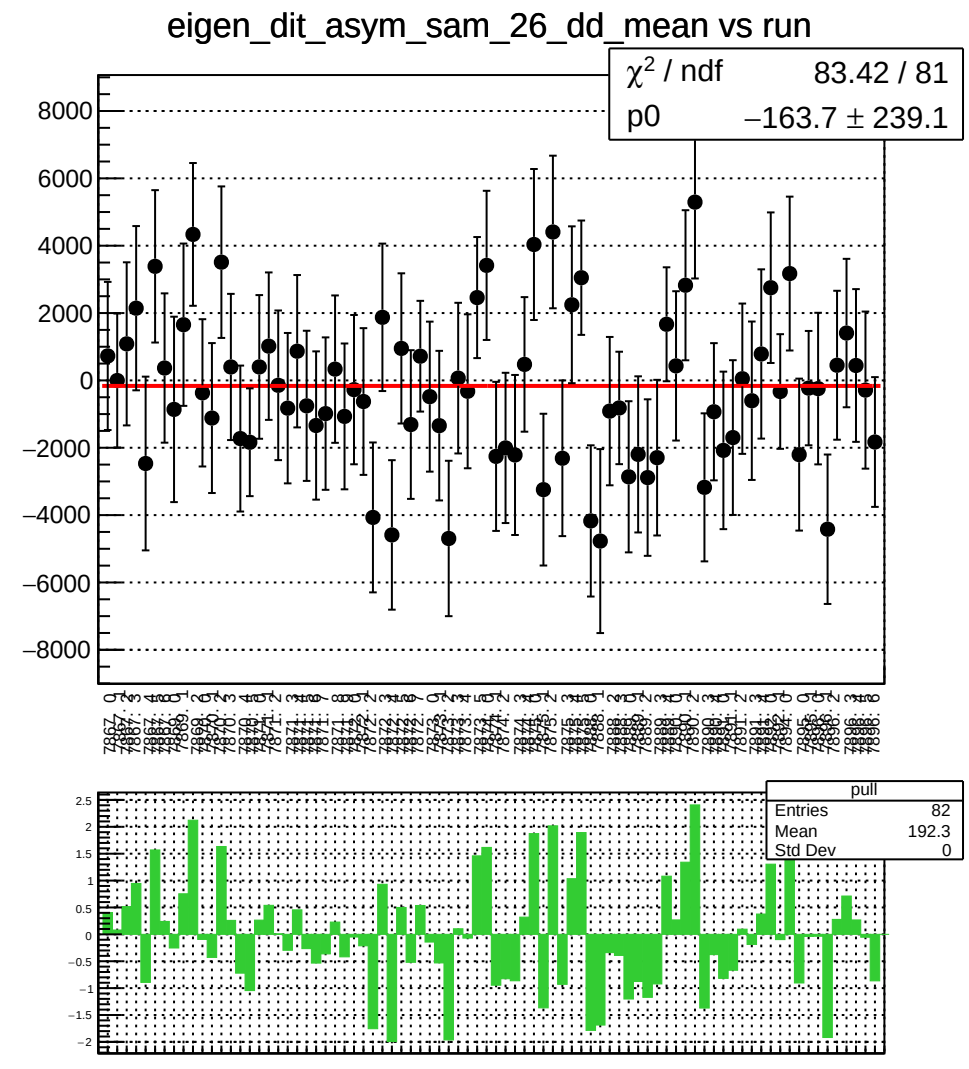

pull1D
Entries 82
Mean −0.01568
Std Dev 1.009

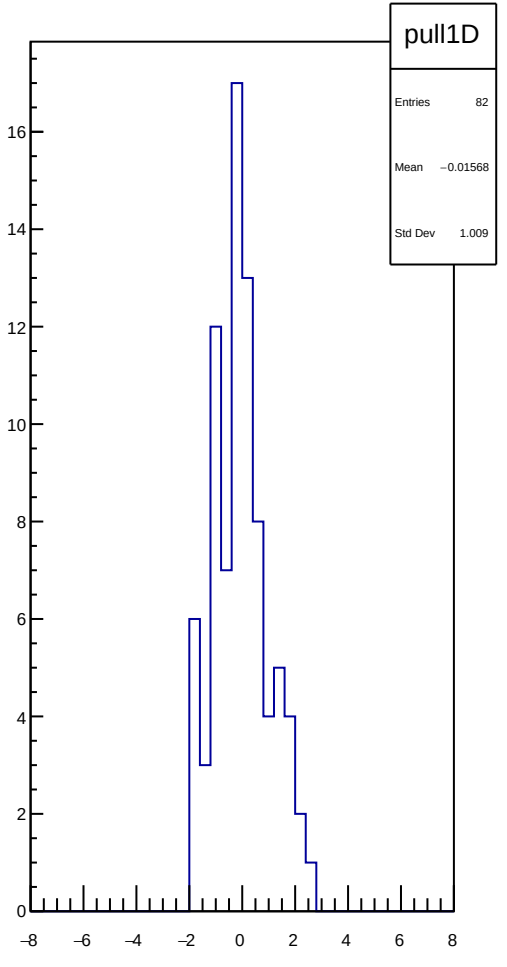

dit_asym_sam_26_dd_rms vs run
χ² / ndf 5264 / 81
p0 215.6 ± 0.1691
300
280
260
240
220
200
180

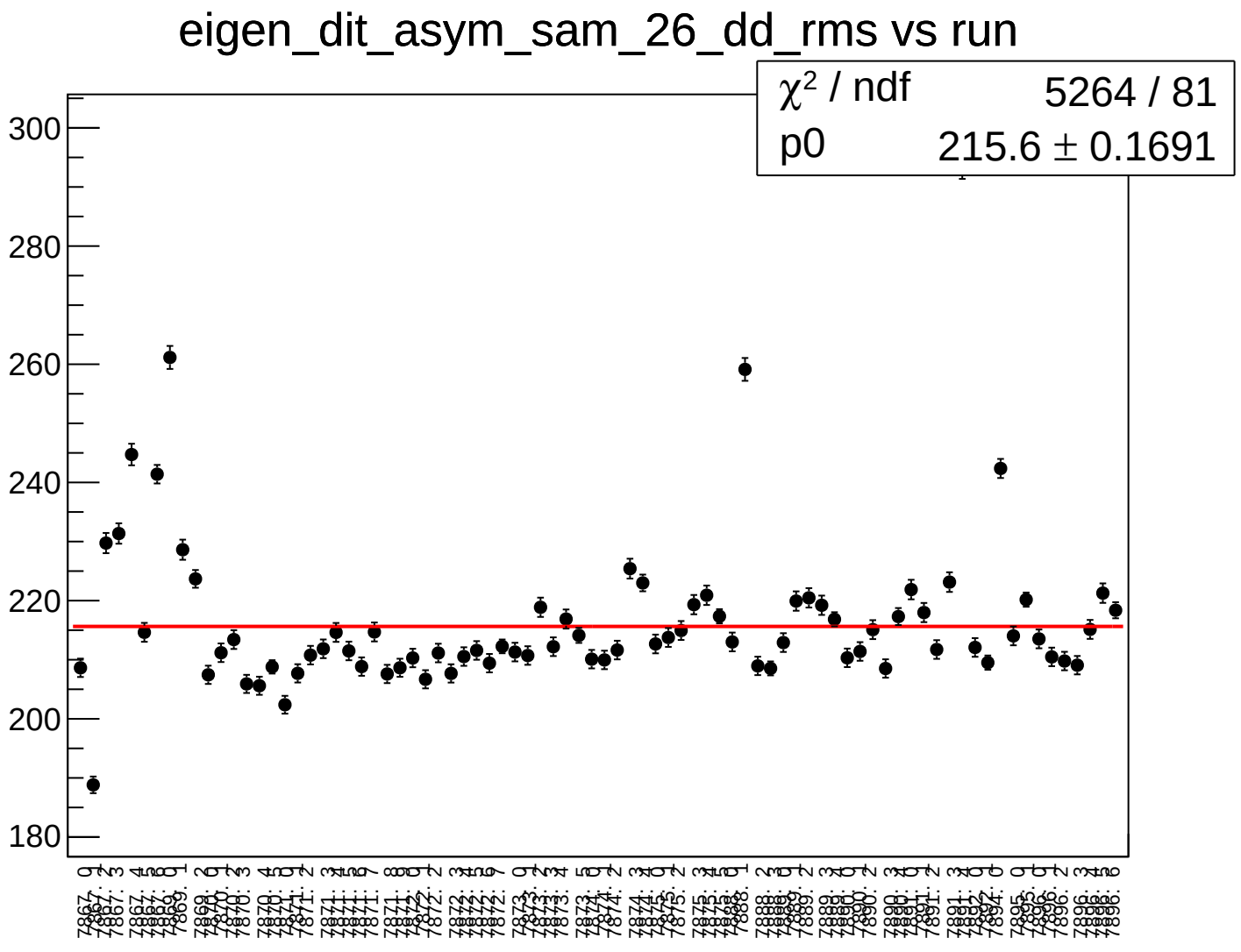

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.01 / 81
p0 −672 ± 4370
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −54.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

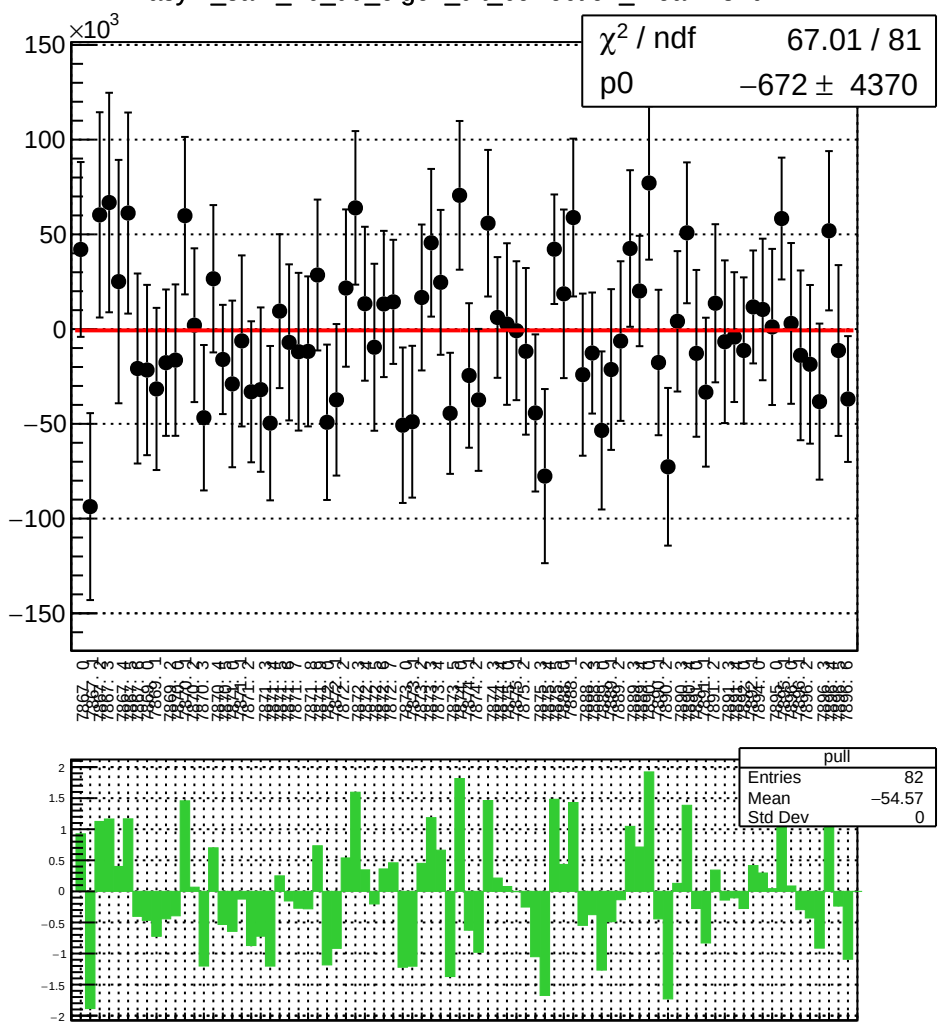

pull1D
Entries 82
Mean −0.007048
Std Dev 0.904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

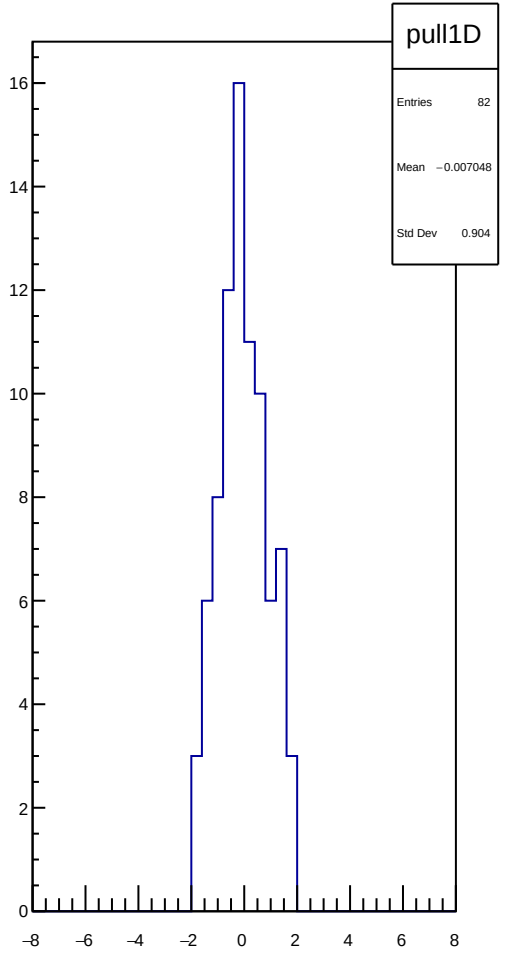

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.262e+04 / 81
p0 3932 ± 3.09
6000
5500
5000
4500
4000
3500

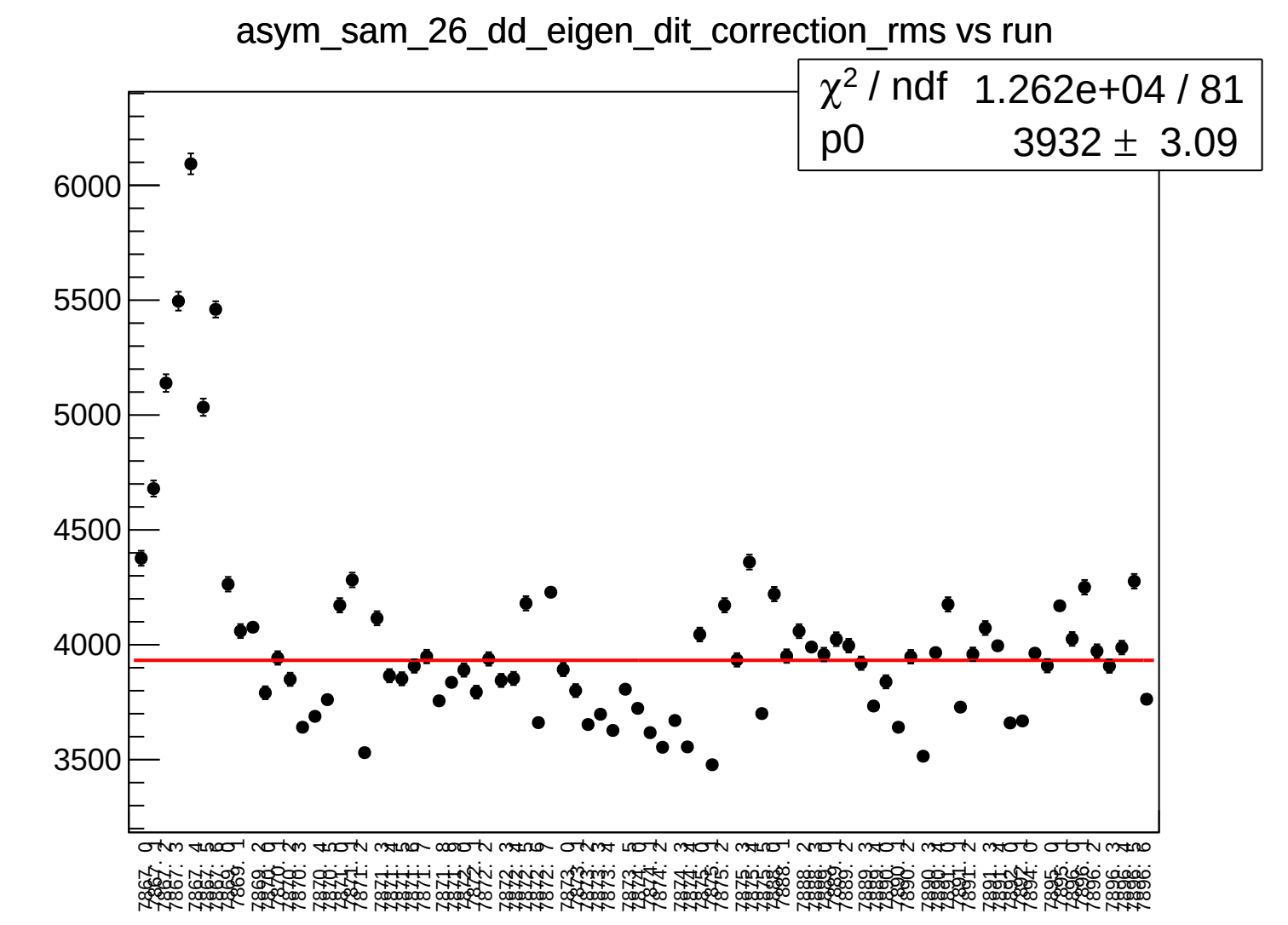

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 83.42 / 81
p0 −163.7 ± 239.1
pull
Entries 82
Mean 192.3
Std Dev 0

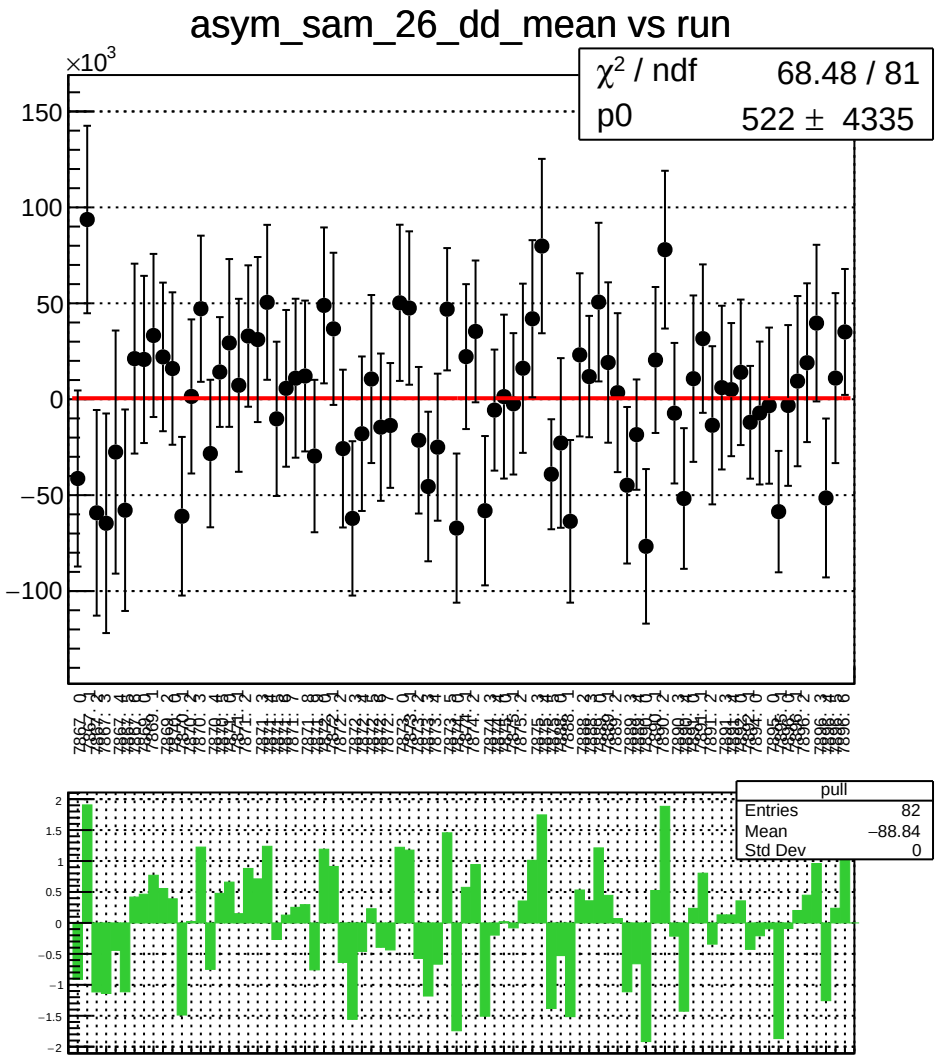

pull1D
Entries 82
Mean −0.01568
Std Dev 1.009

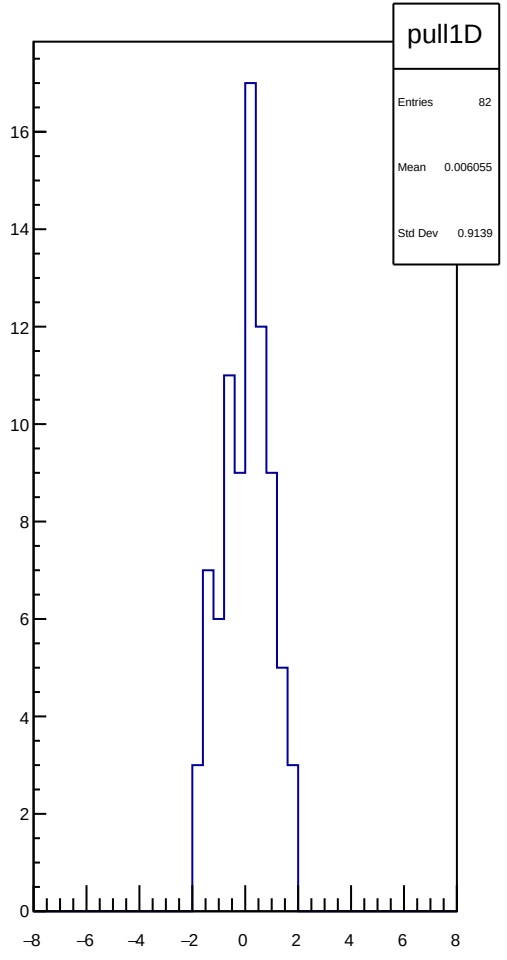

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 5264 / 81
p0 215.6 ± 0.1691
300
280
260
240
220
200
180

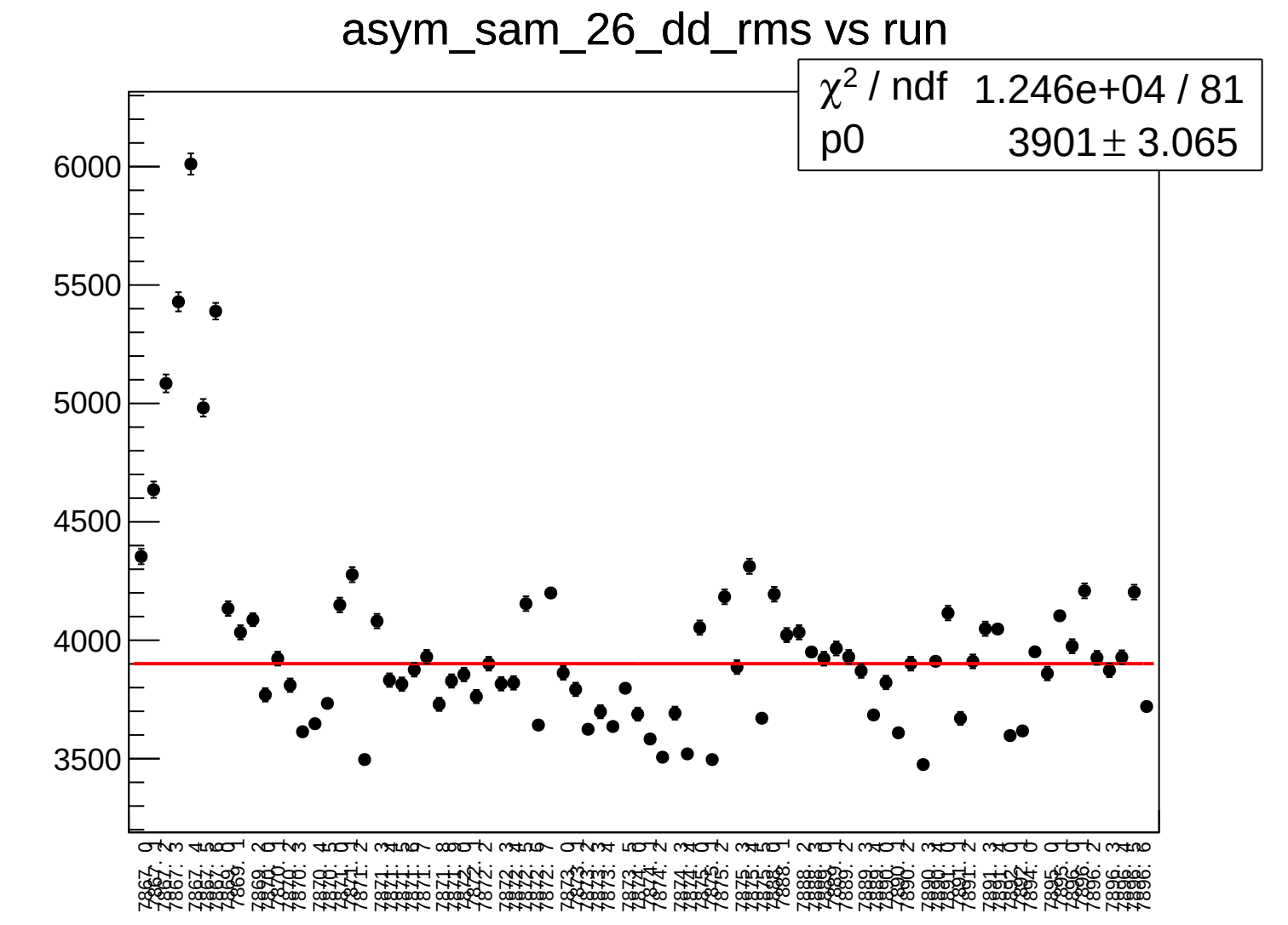

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.01 / 81
p0 −672 ± 4370
×10³
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −54.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

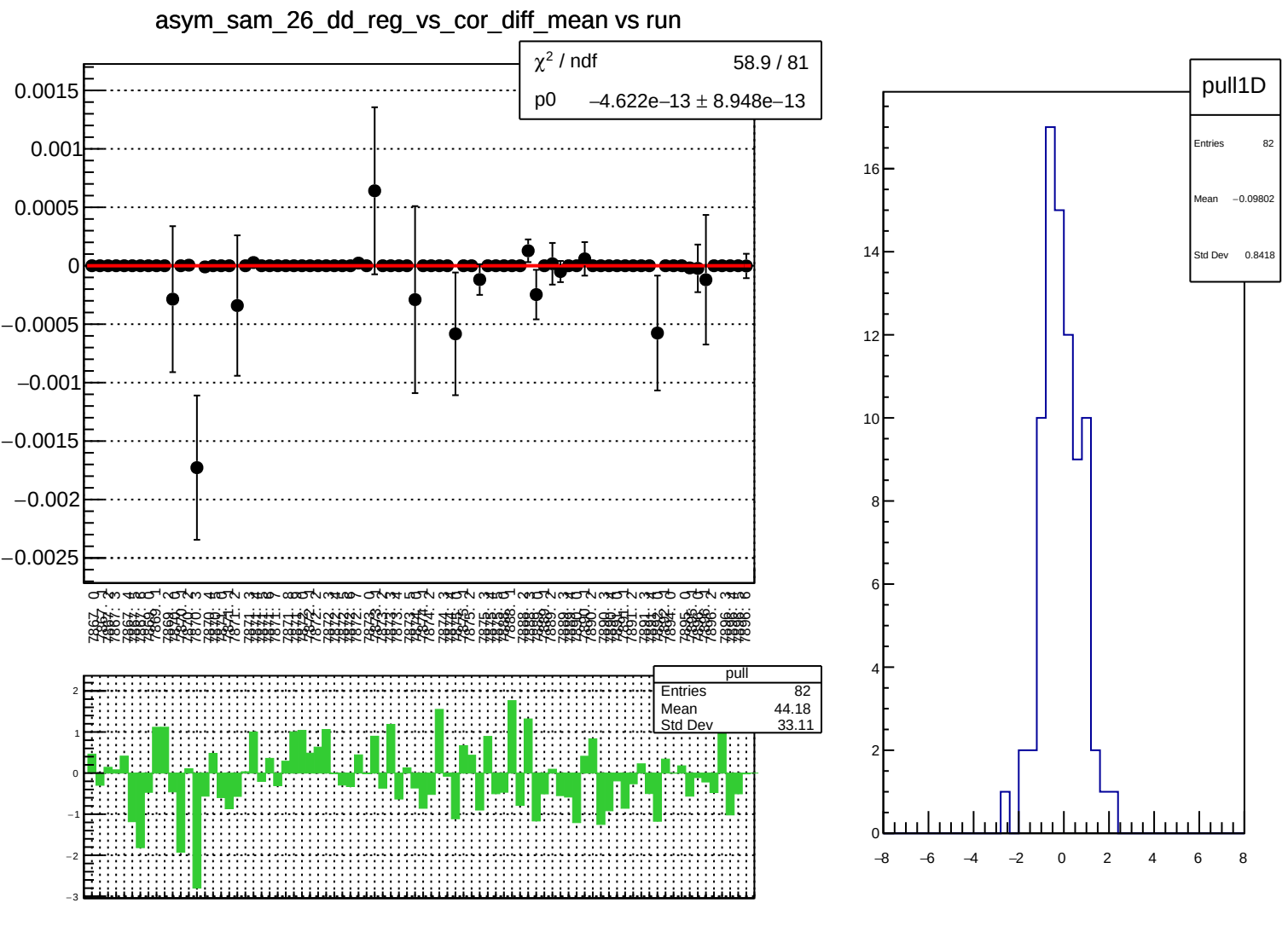

pull1D
Entries 82
Mean −0.007048
Std Dev 0.904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

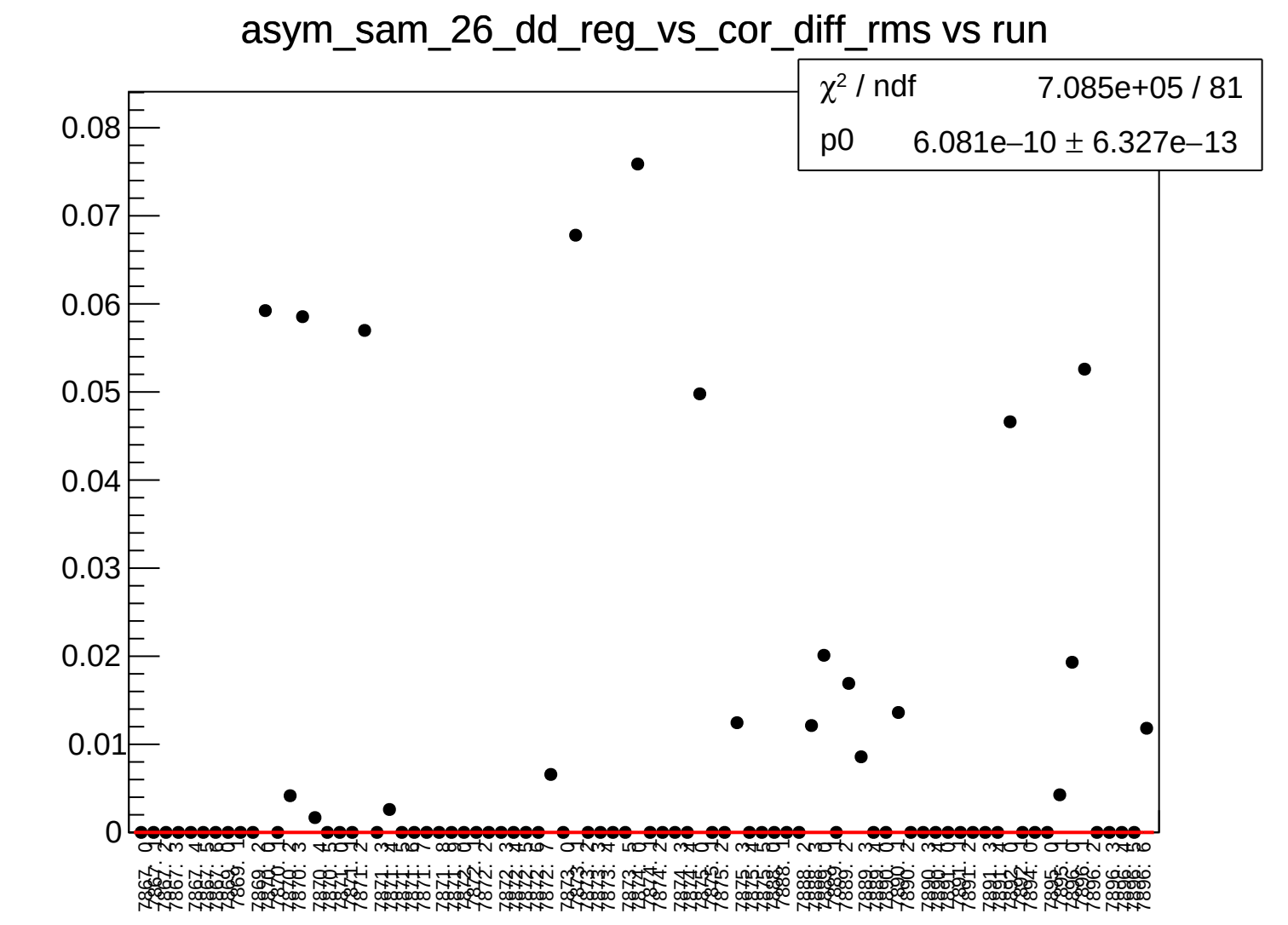

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.262e+04 / 81
p0 3932 ± 3.09
6000
5500
5000
4500
4000
3500

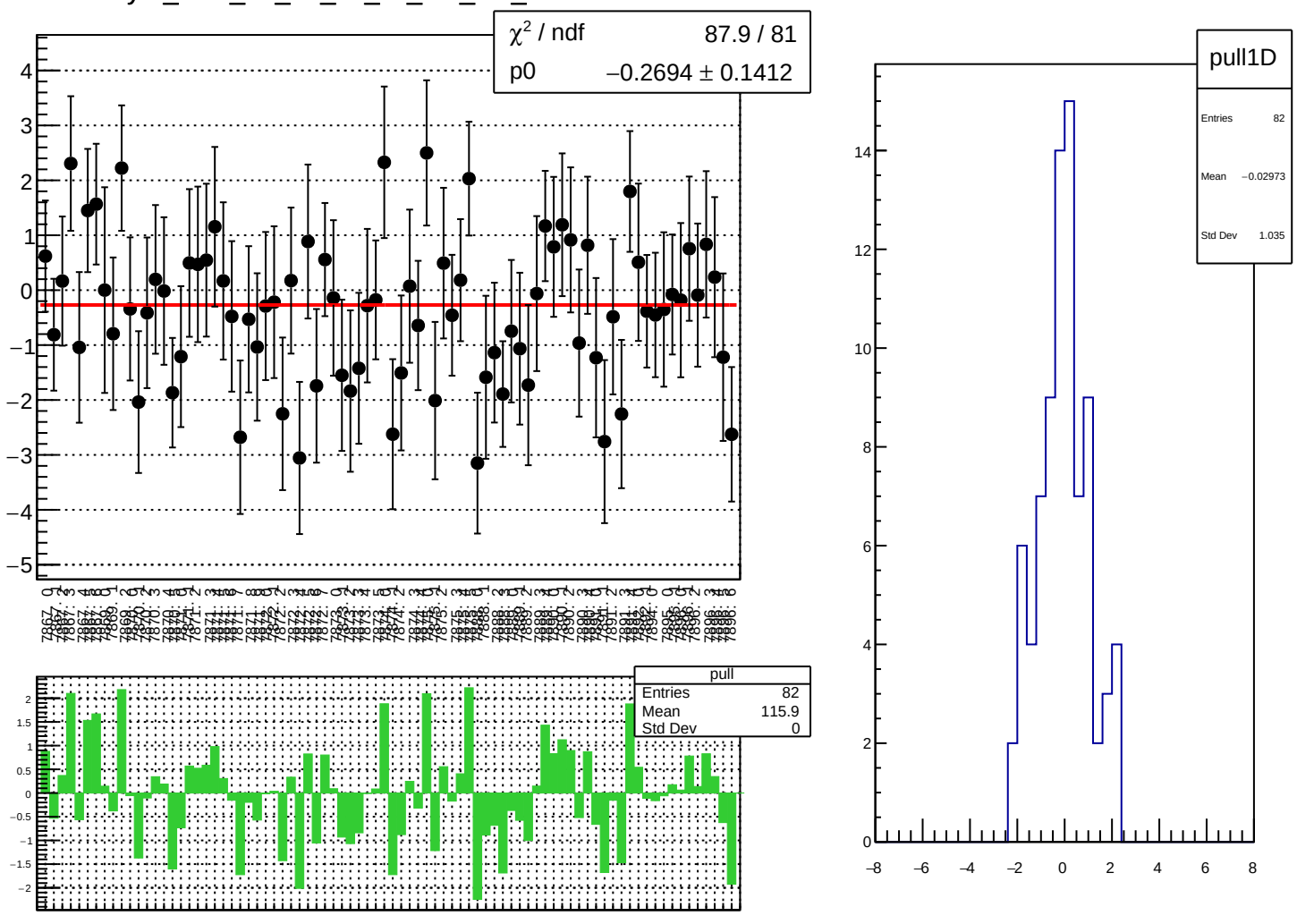

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 68.48 / 81
p0 522 ± 4335
150
100
50
0
−50
−100
pull
Entries 82
Mean −88.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

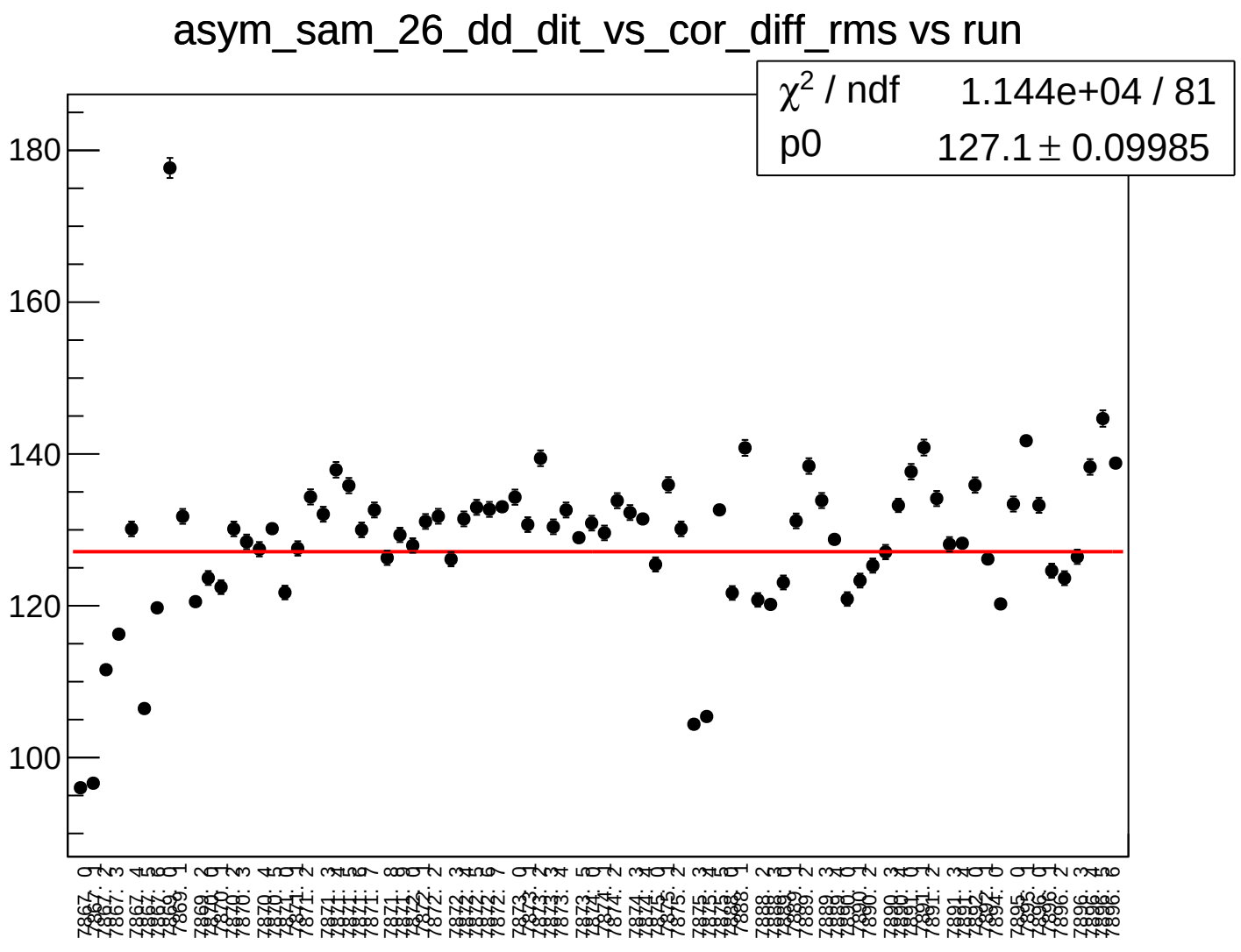

pull1D
Entries 82
Mean 0.006055
Std Dev 0.9139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

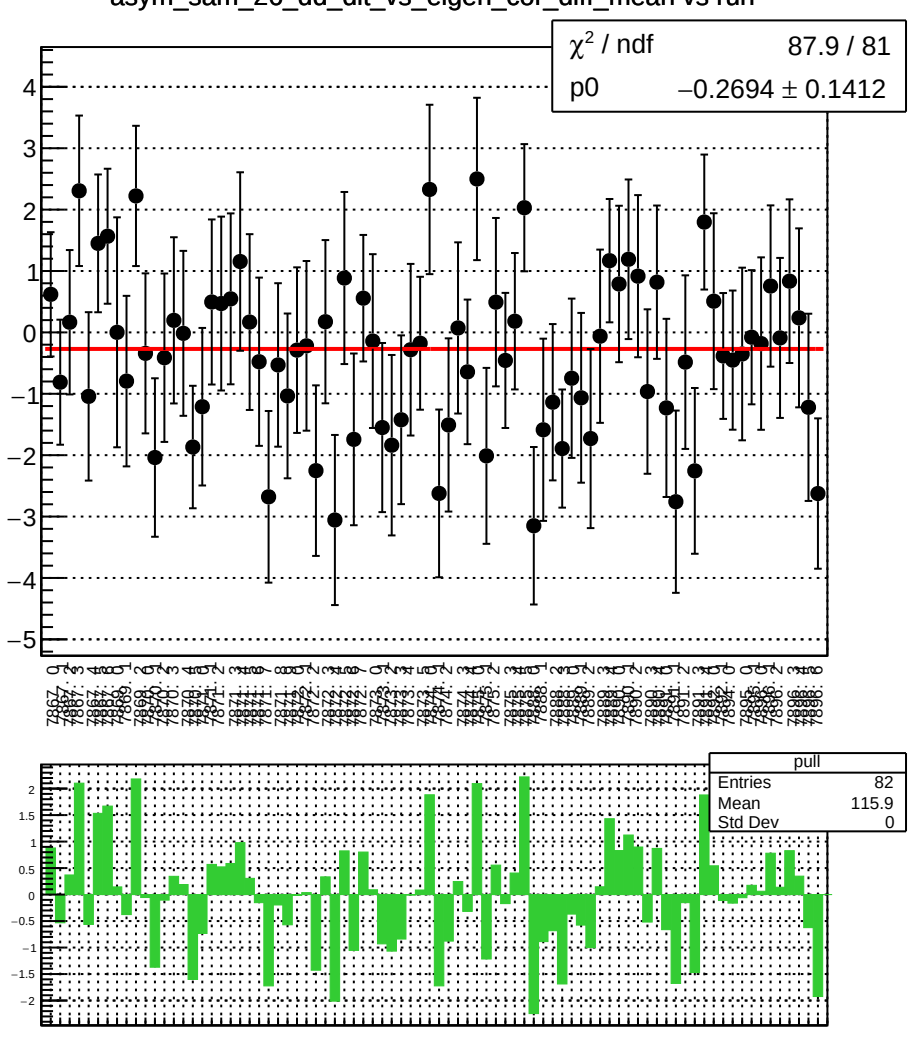

asym_sam_26_dd_rms vs run
χ² / ndf 1.246e+04 / 81
p0 3901 ± 3.065
6000
5500
5000
4500
4000
3500

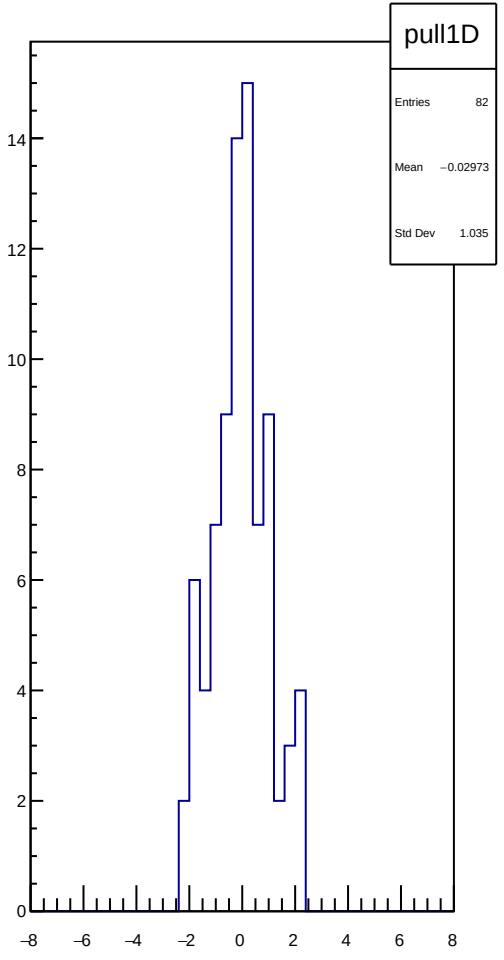

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.9 / 81
p0 −4.622e−13 ± 8.948e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 82
Mean 44.18
Std Dev 33.11
pull1D
Entries 82
Mean −0.09802
Std Dev 0.8418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

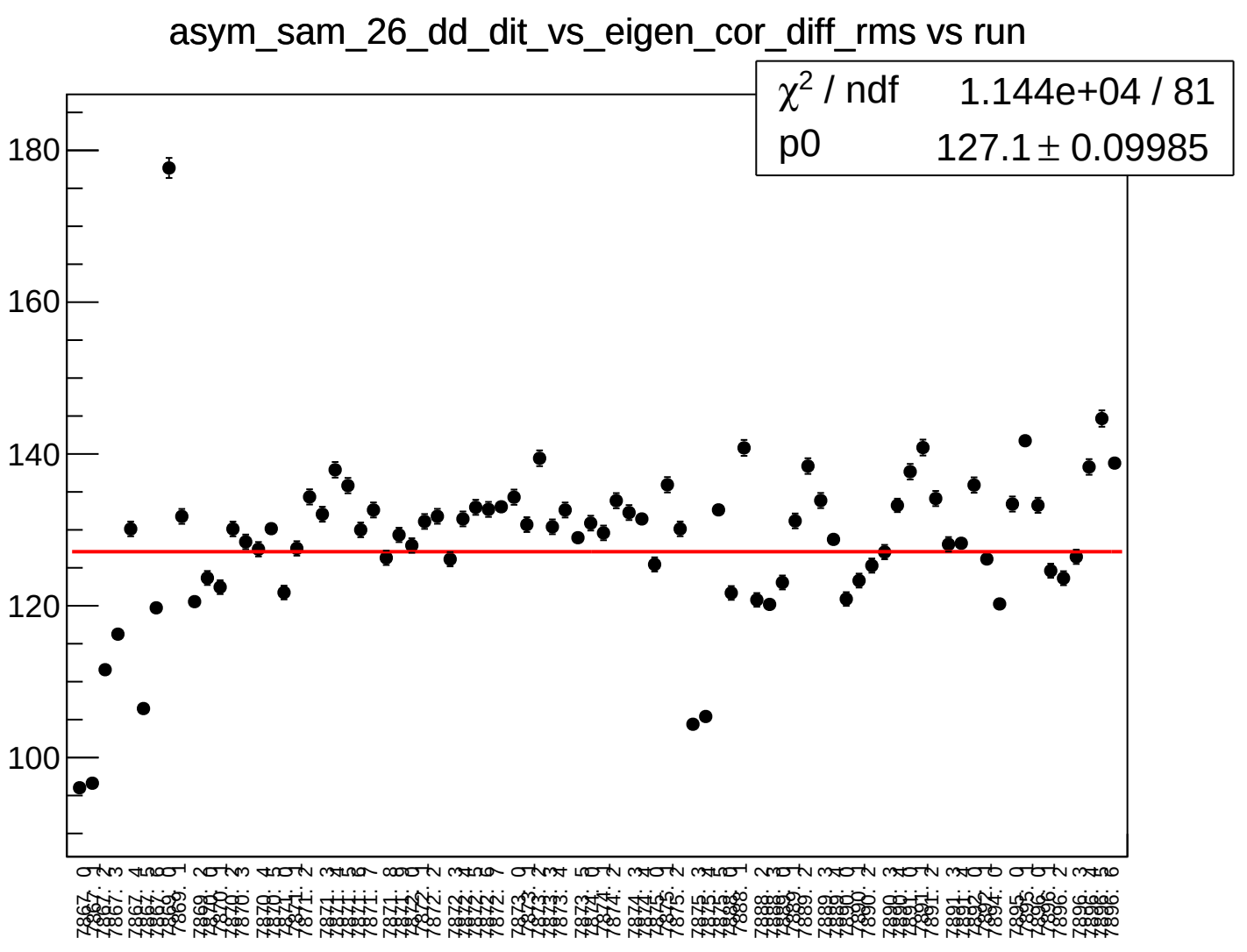

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.085e+05 / 81
p0 6.081e−10 ± 6.327e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

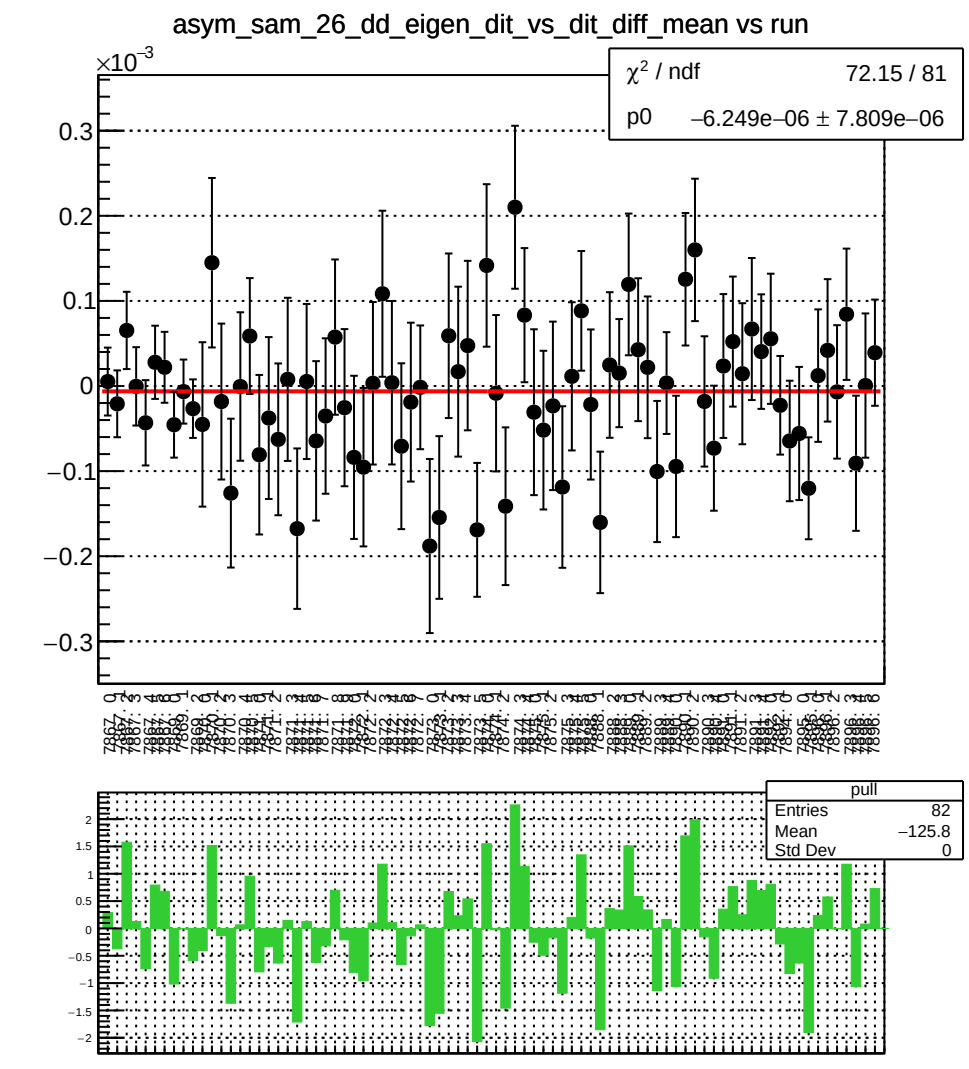

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.9 / 81
p0 −0.2694 ± 0.1412
pull
Entries 82
Mean 115.9
Std Dev 0
pull1D
Entries 82
Mean −0.02973
Std Dev 1.035

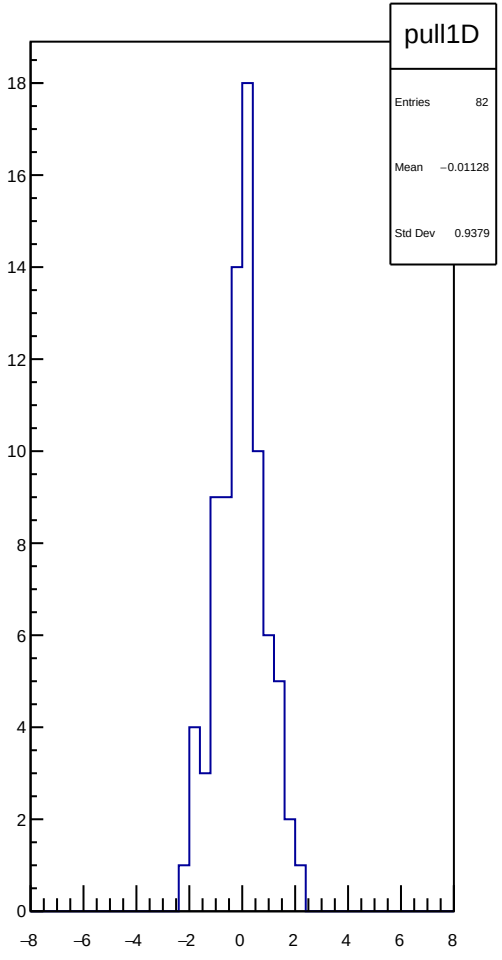

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.144e+04 / 81
p0 127.1 ± 0.09985
180
160
140
120
100

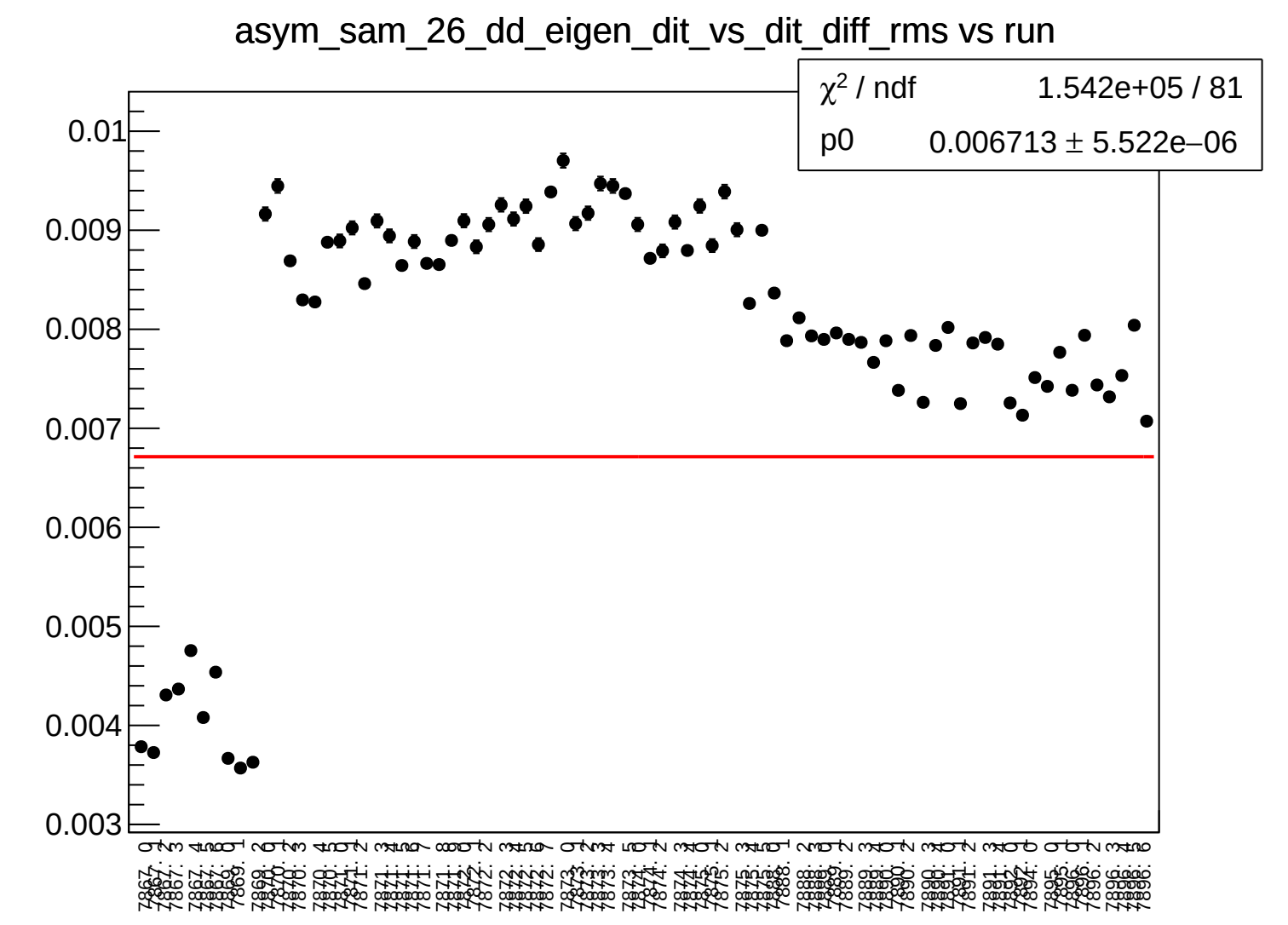

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.9 / 81
p0 −0.2694 ± 0.1412
pull
Entries 82
Mean 115.9
Std Dev 0

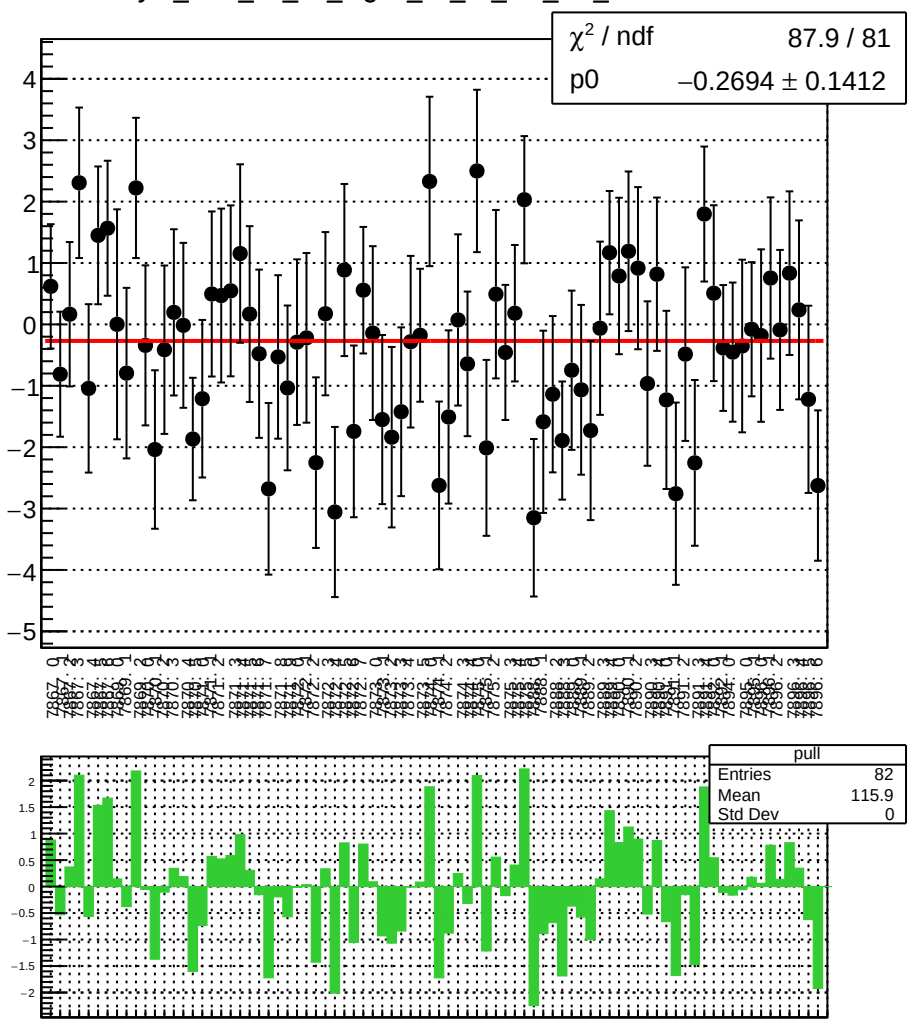

pull1D
Entries 82
Mean −0.02973
Std Dev 1.035

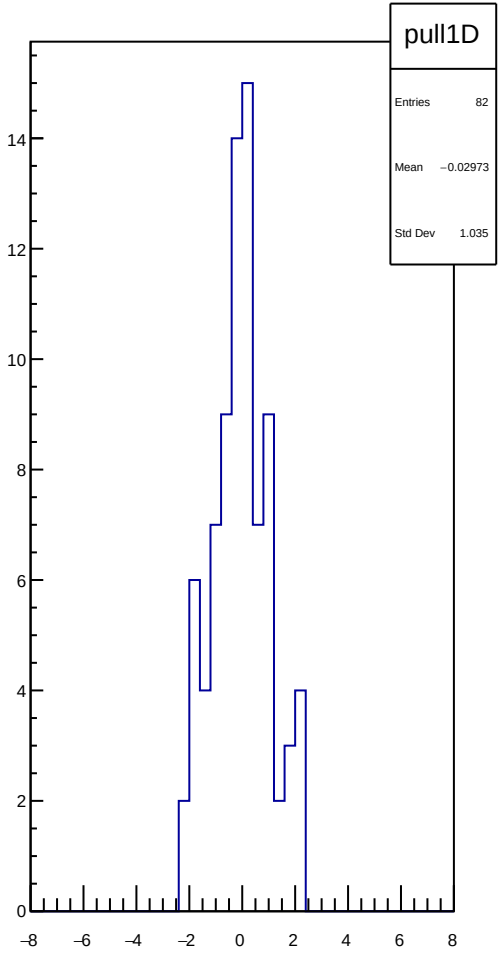

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.144e+04 / 81
p0 127.1 ± 0.09985
180
160
140
120
100

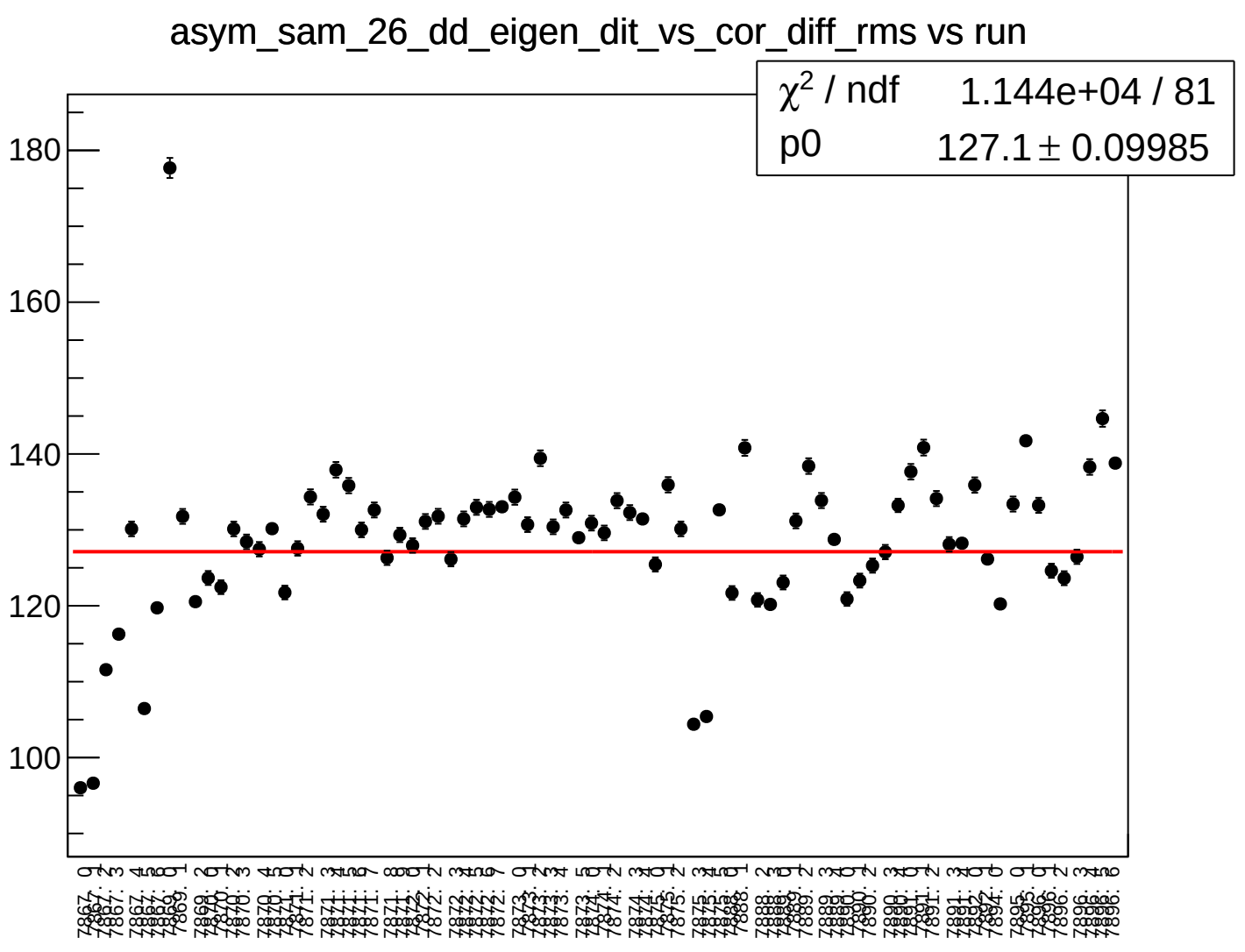

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 72.15 / 81
p0 −6.249e−06 ± 7.809e−06
pull
Entries 82
Mean −125.8
Std Dev 0


pull1D
Entries 82
Mean −0.01128
Std Dev 0.9379

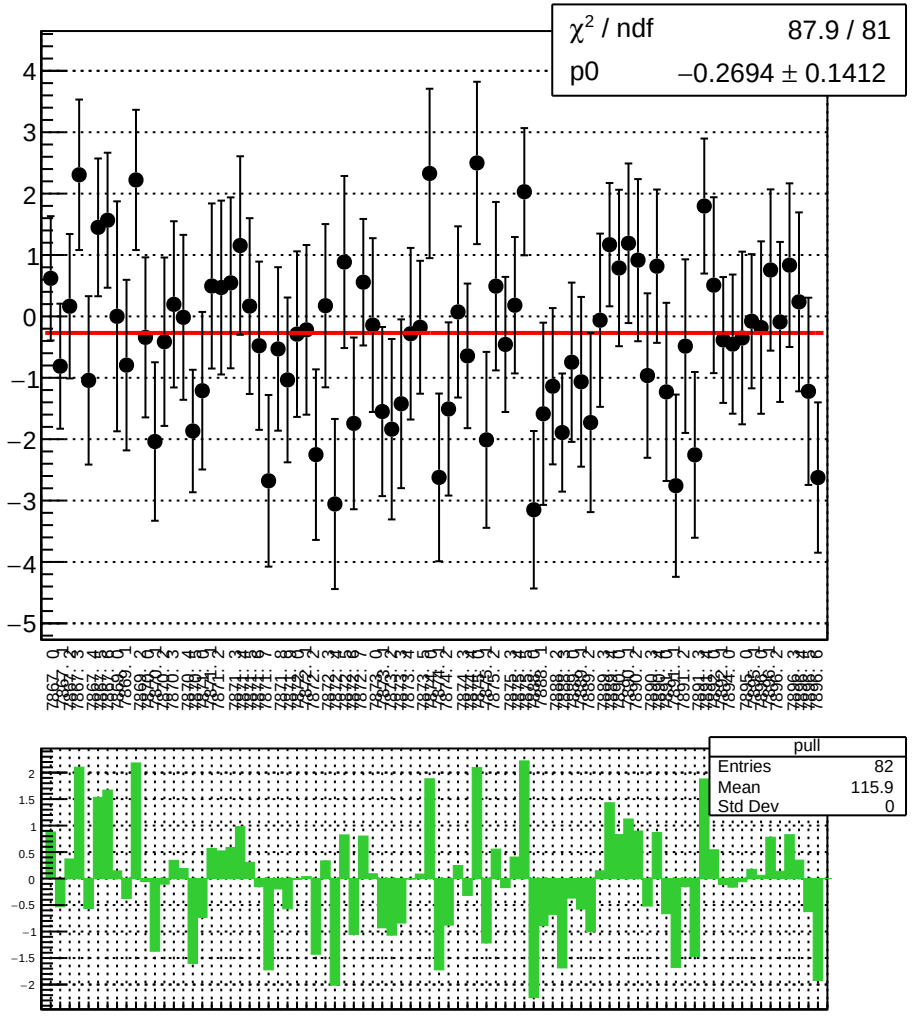

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.542e+05 / 81
p0 0.006713 ± 5.522e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

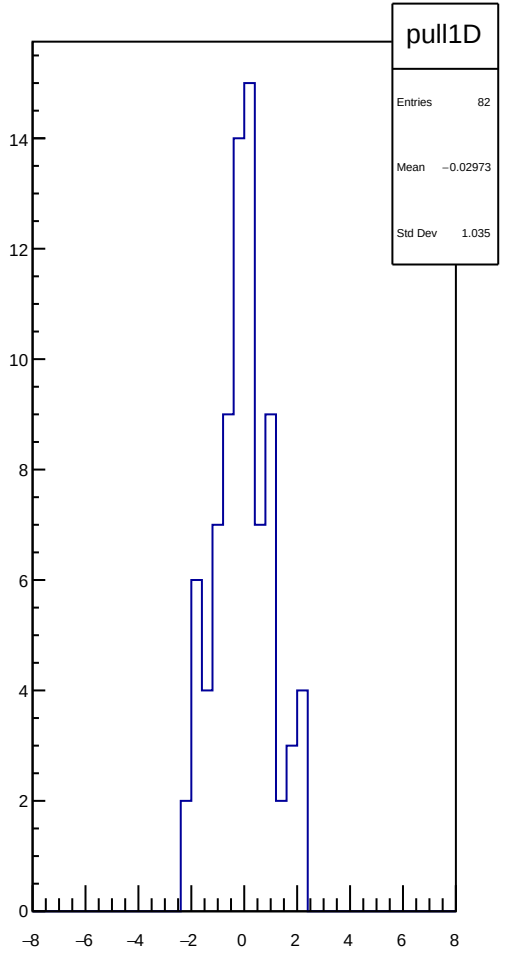

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.9 / 81
p0 −0.2694 ± 0.1412
pull
Entries 82
Mean 115.9
Std Dev 0

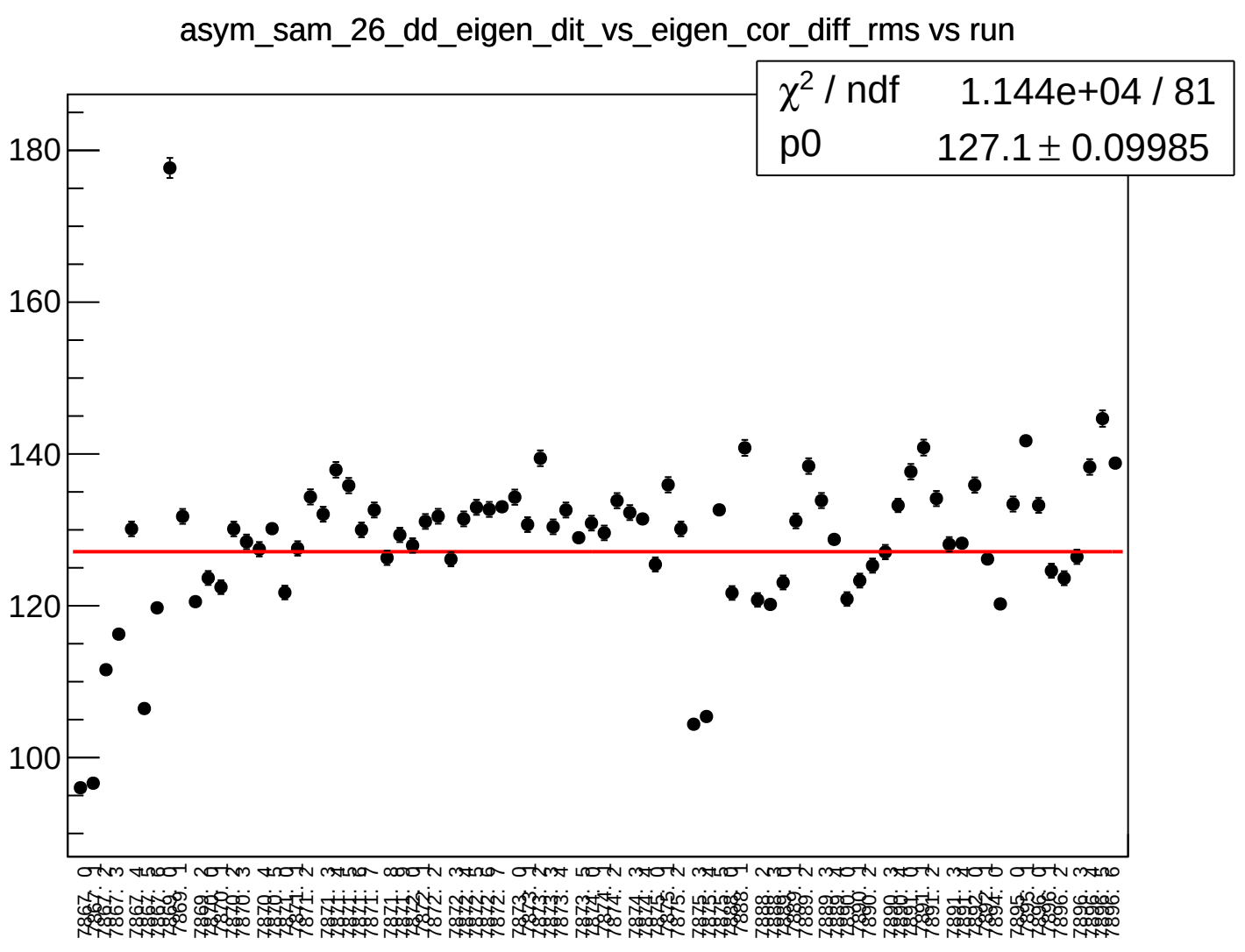

pull1D
Entries 82
Mean −0.02973
Std Dev 1.035

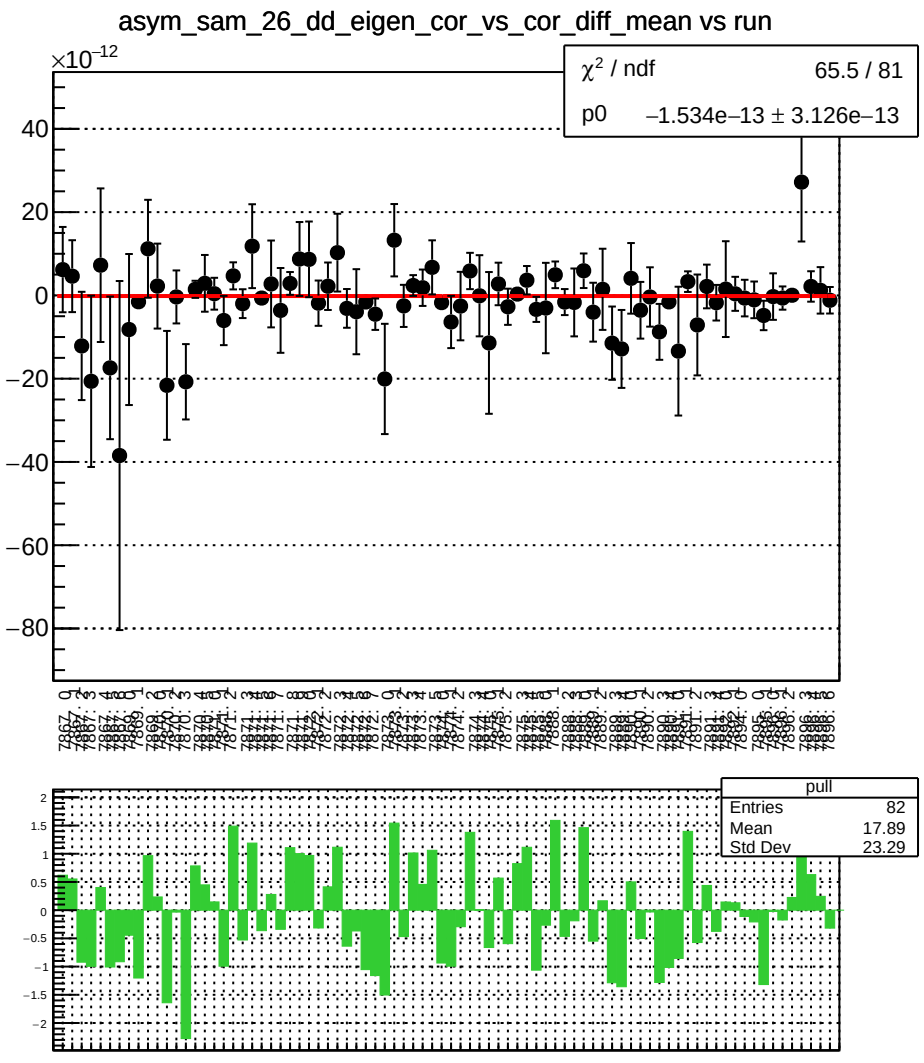

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.144e+04 / 81
p0 127.1 ± 0.09985
180
160
140
120
100

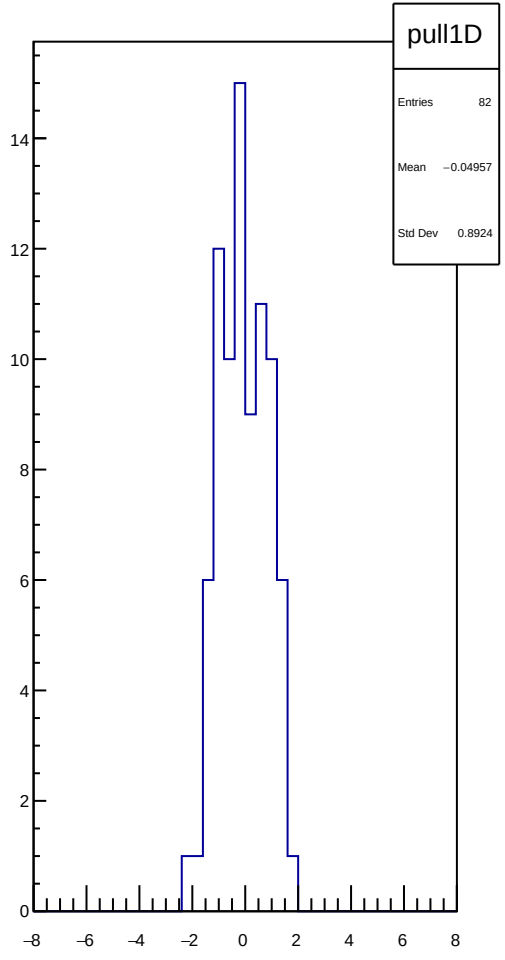
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

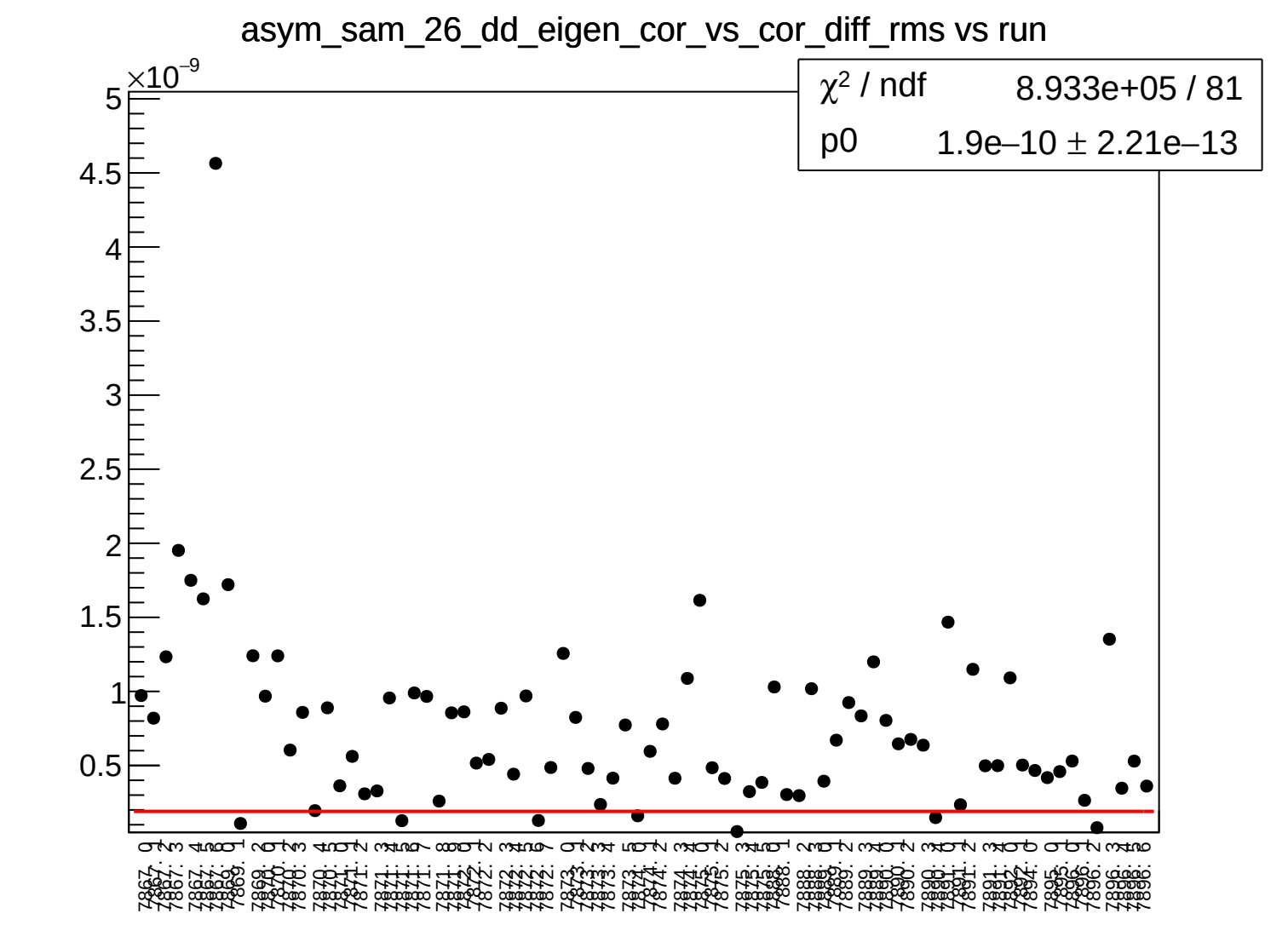


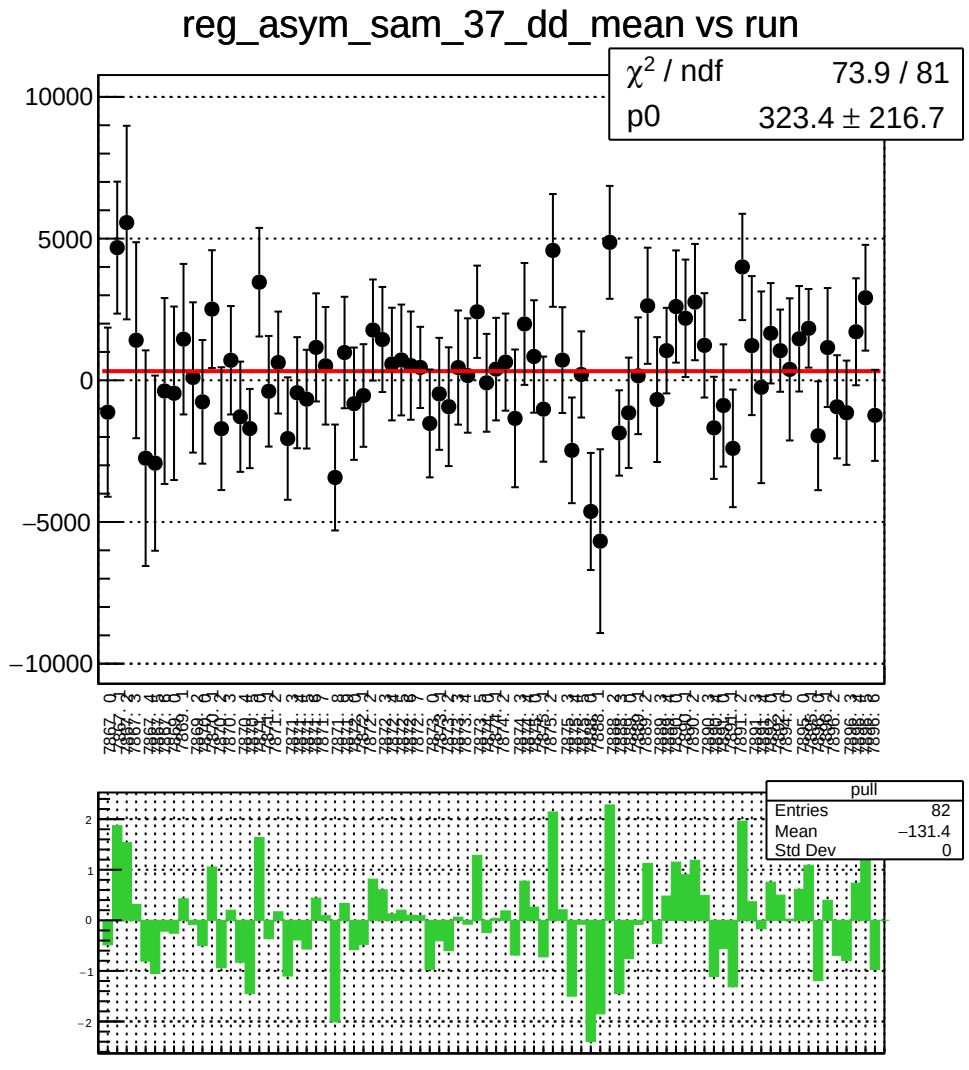


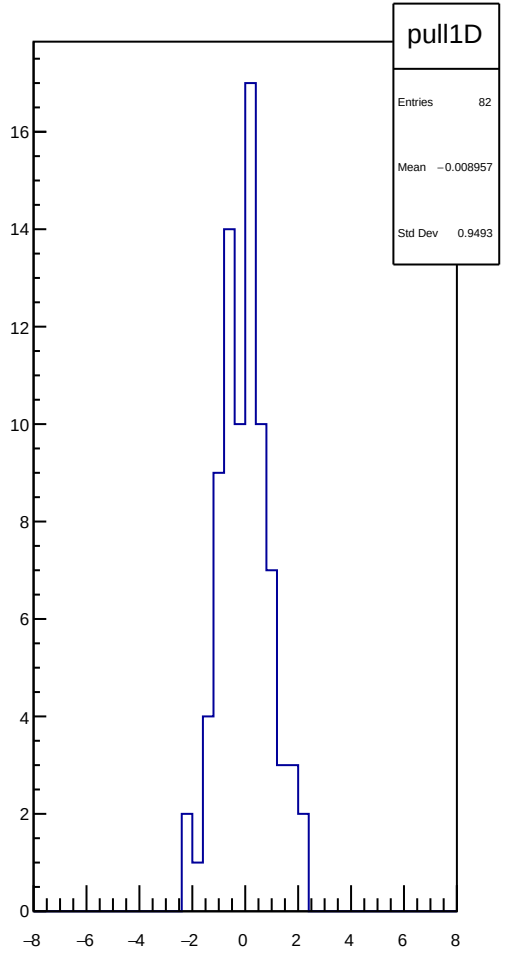

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.144e+04 / 81
p0 127.1 ± 0.09985
180
160
140
120
100

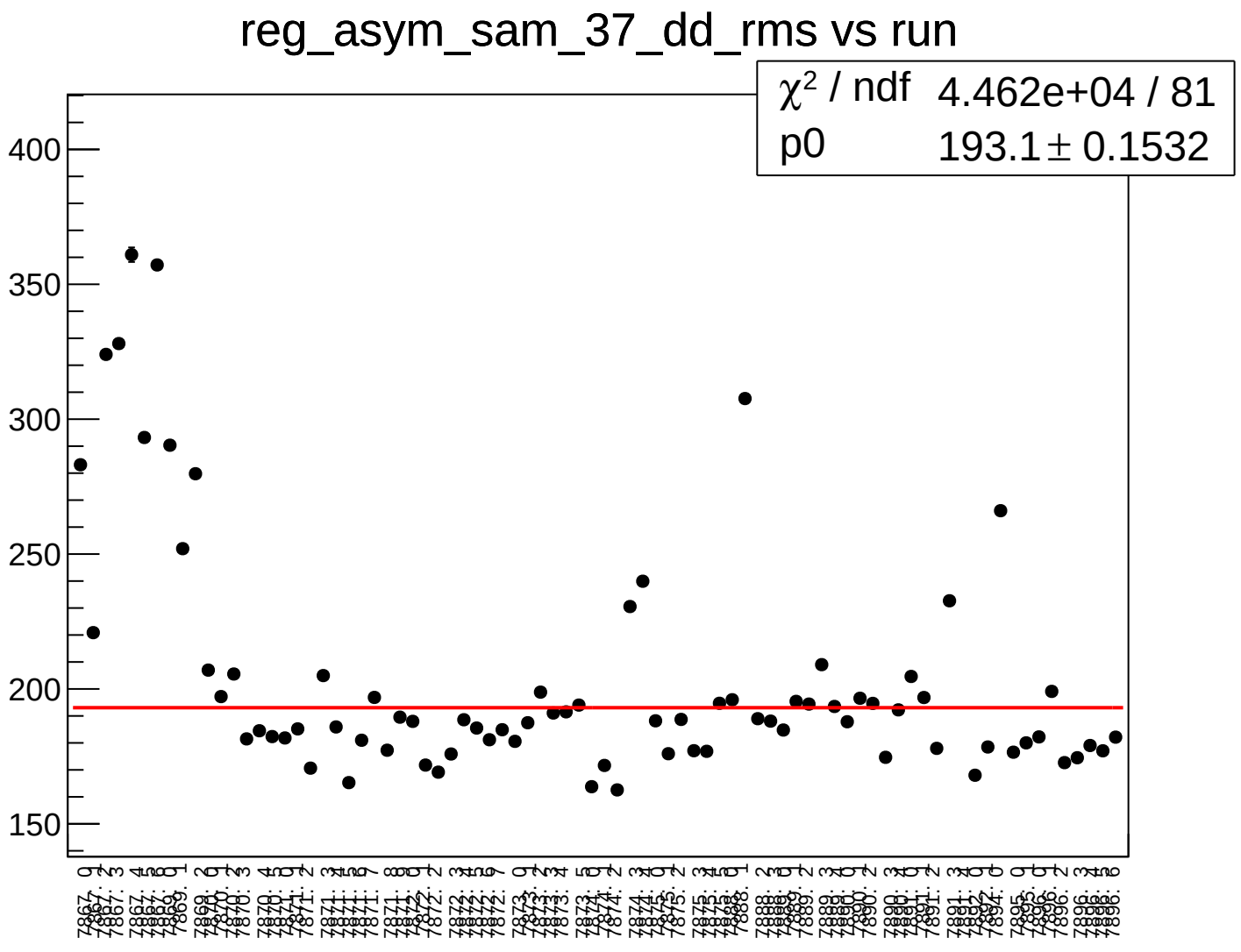

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.5 / 81
p0 −1.534e−13 ± 3.126e−13
pull
Entries 82
Mean 17.89
Std Dev 23.29

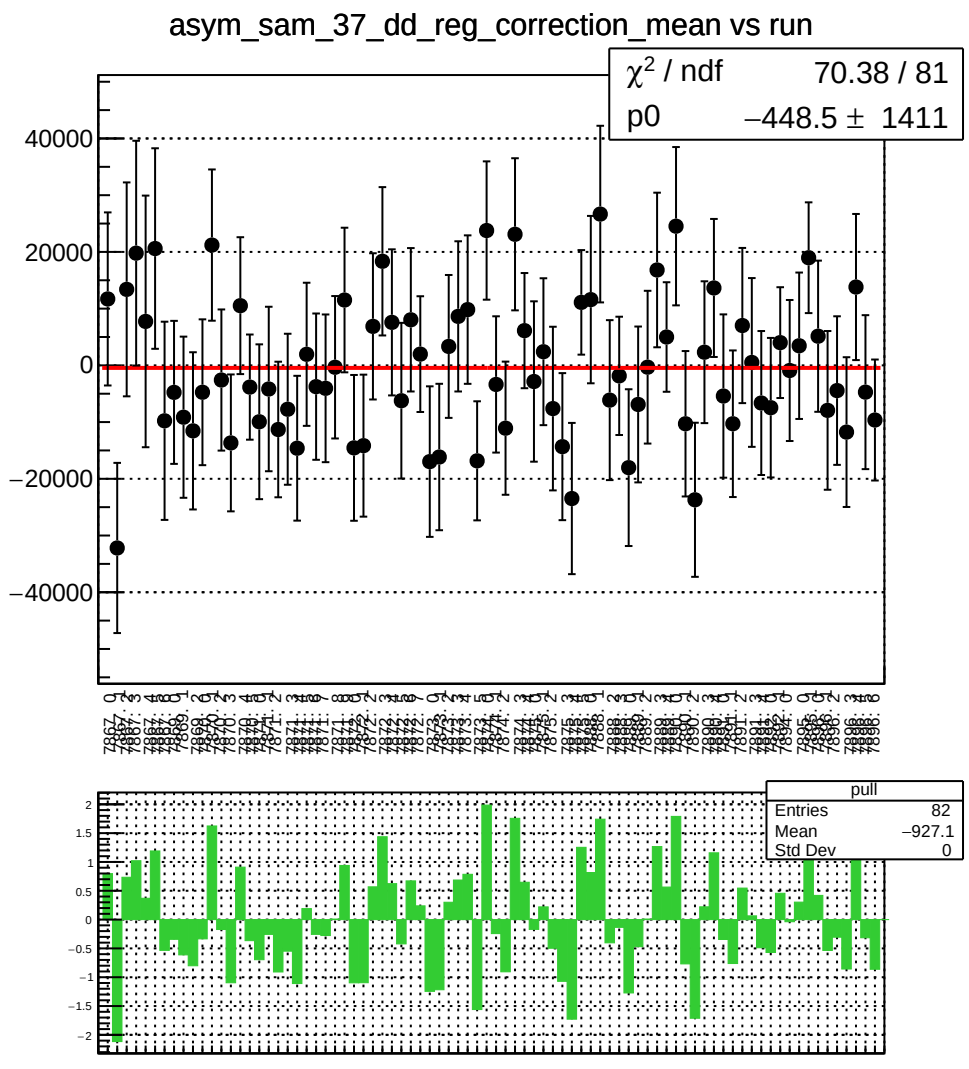

pull1D
Entries 82
Mean −0.04957
Std Dev 0.8924

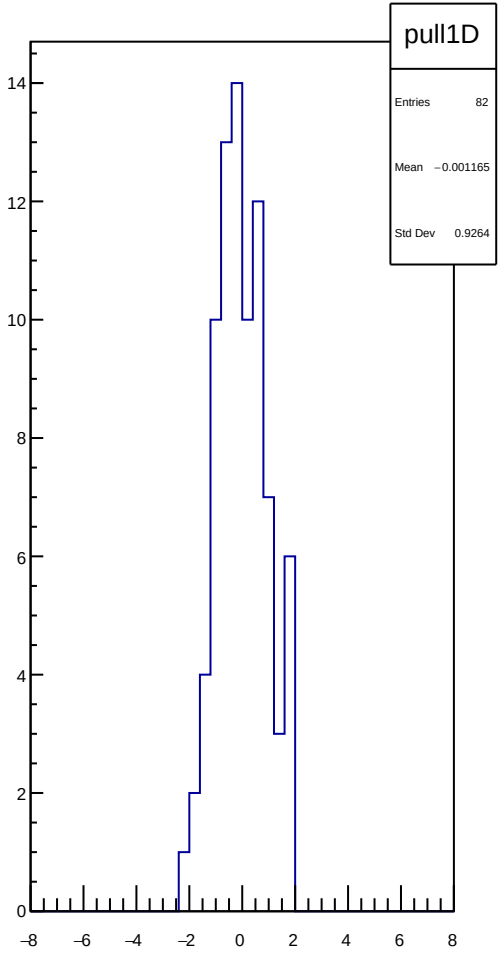

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.933e+05 / 81
p0 1.9e−10 ± 2.21e−13
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

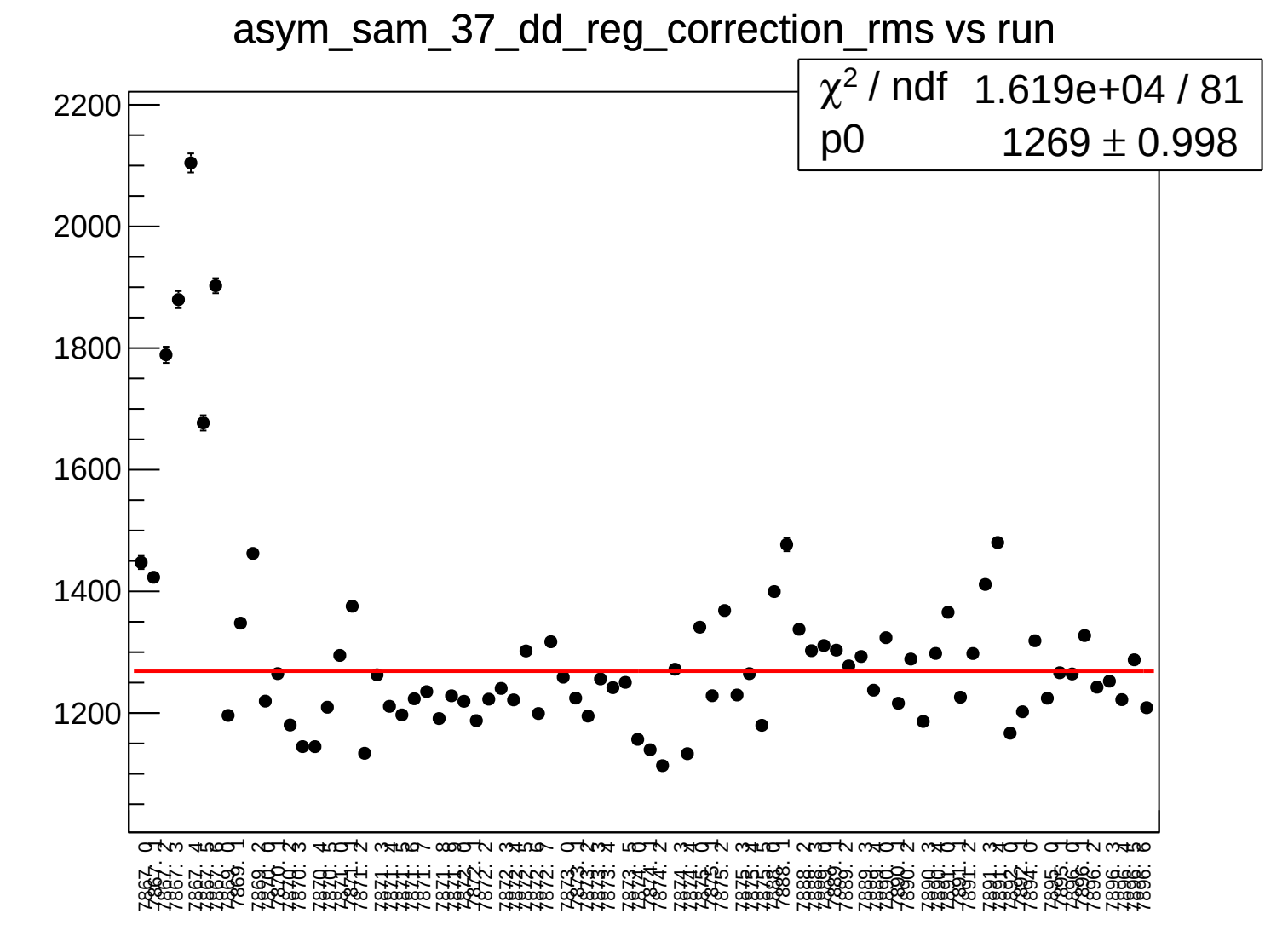

reg_asym_sam_37_dd_mean vs run
χ² / ndf 73.9 / 81
p0 323.4 ± 216.7
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −131.4
Std Dev 0
2
1
0
−1
−2

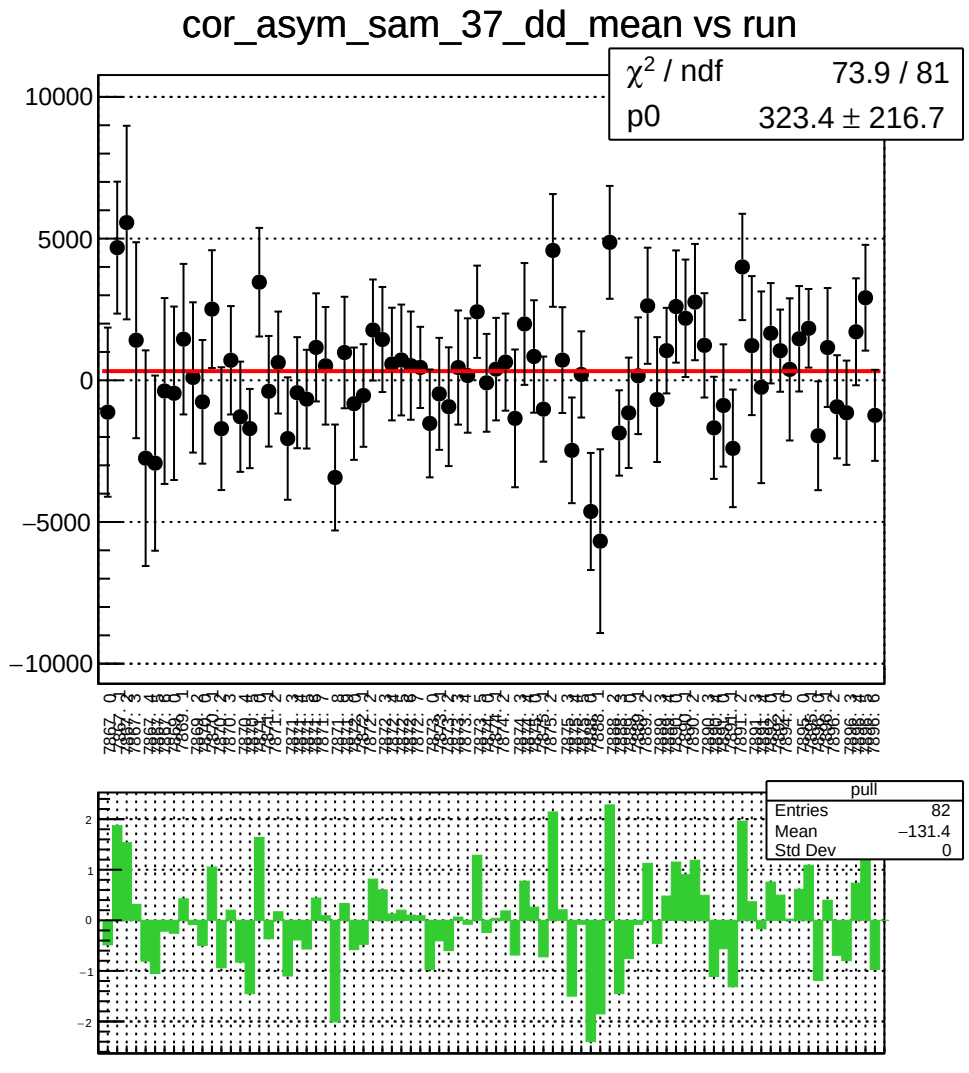

pull1D
Entries 82
Mean −0.008957
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

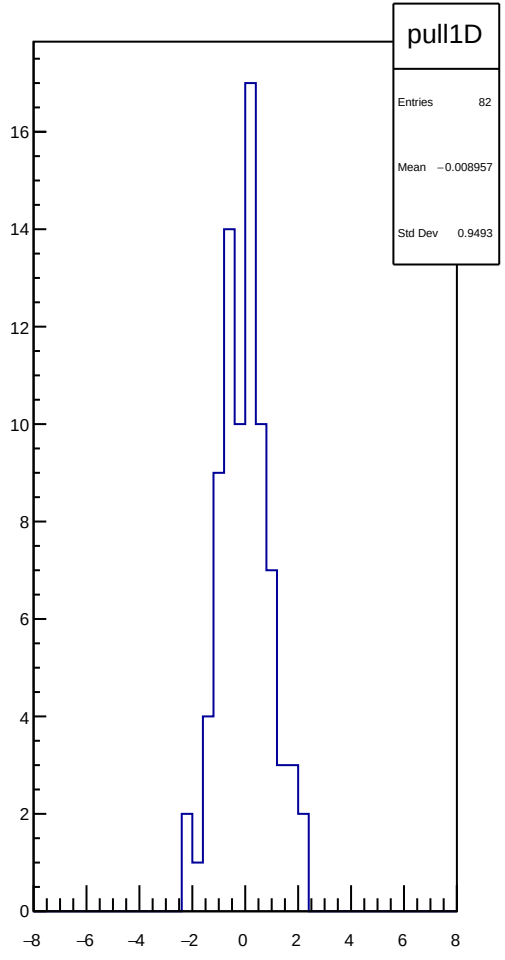

reg_asym_sam_37_dd_rms vs run
χ² / ndf 4.462e+04 / 81
p0 193.1 ± 0.1532
400
350
300
250
200
150

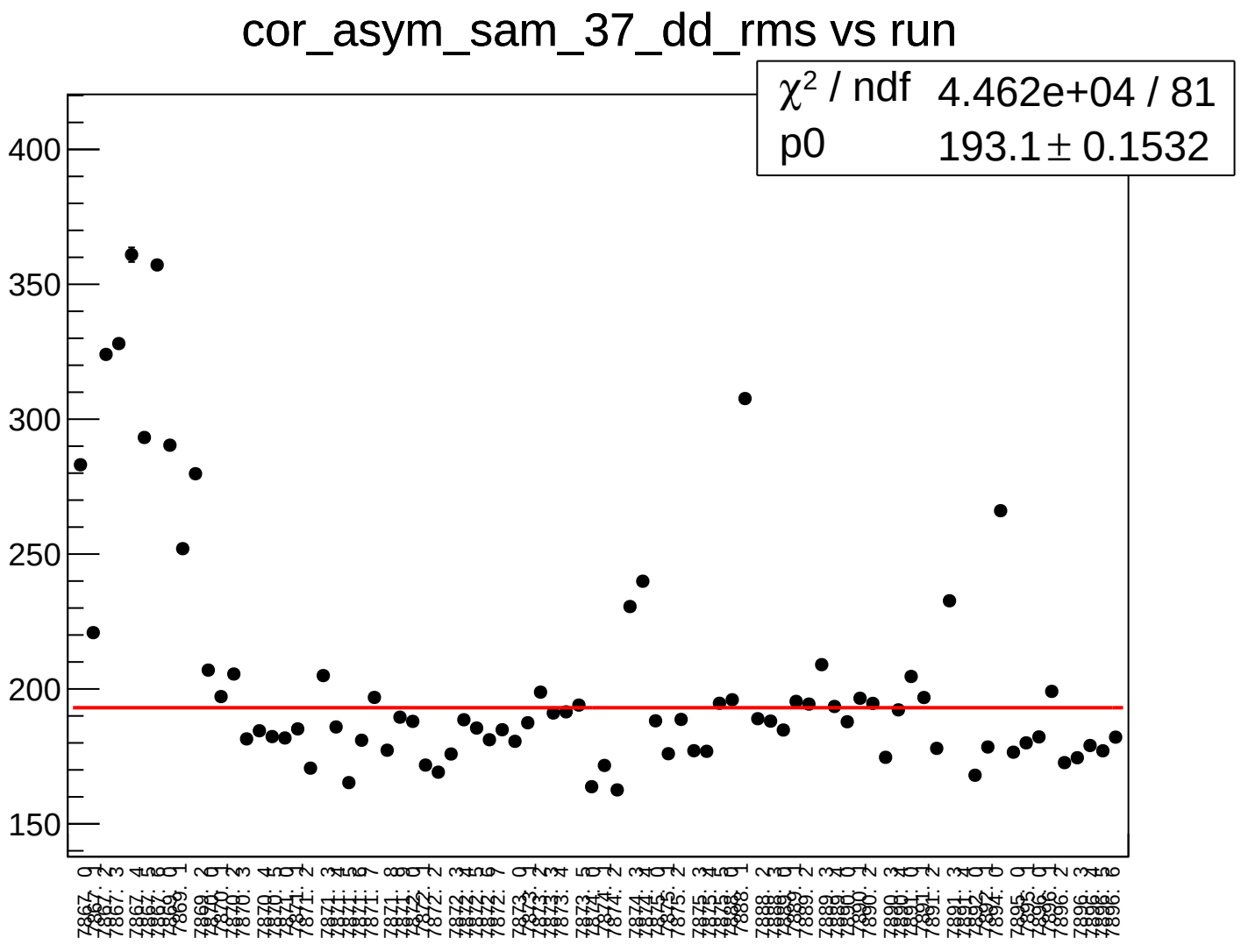

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 70.38 / 81
p0 −448.5 ± 1411
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −927.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

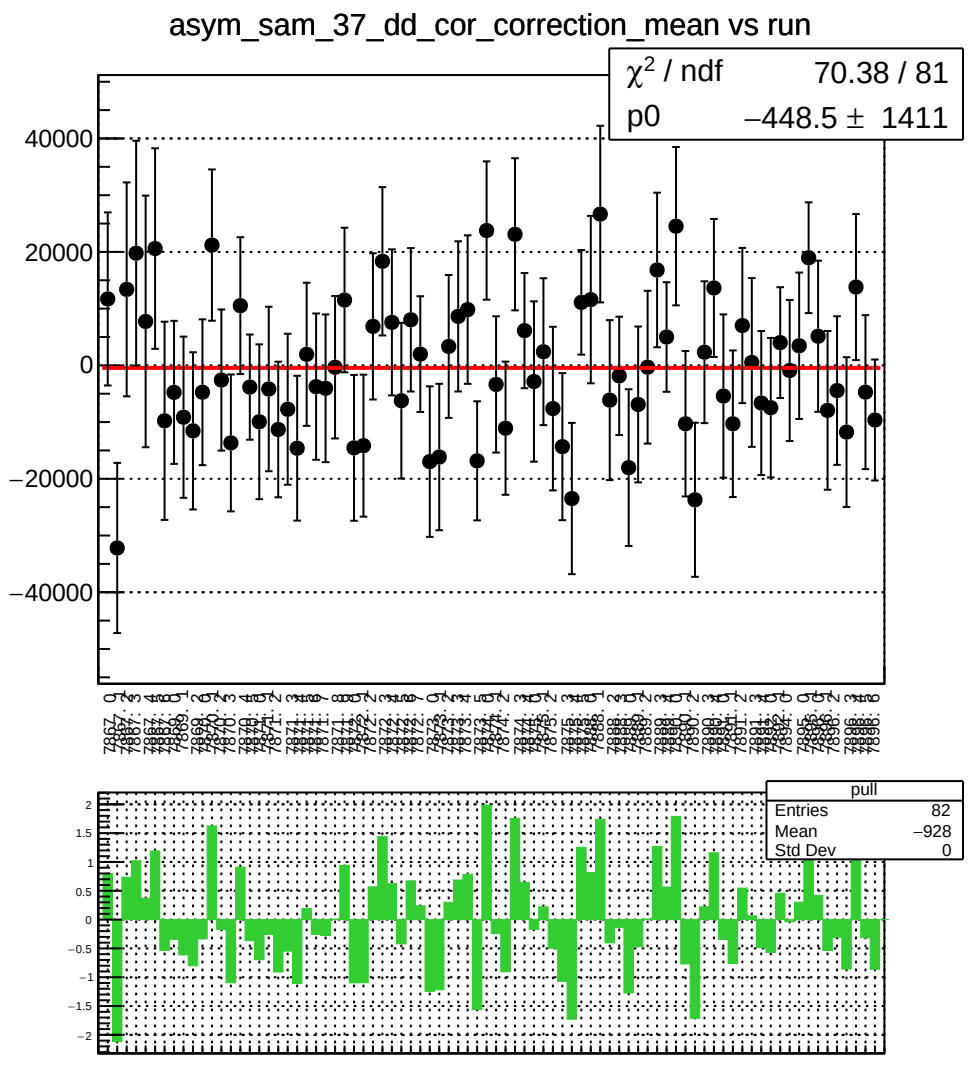

pull1D
Entries 82
Mean −0.001165
Std Dev 0.9264
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

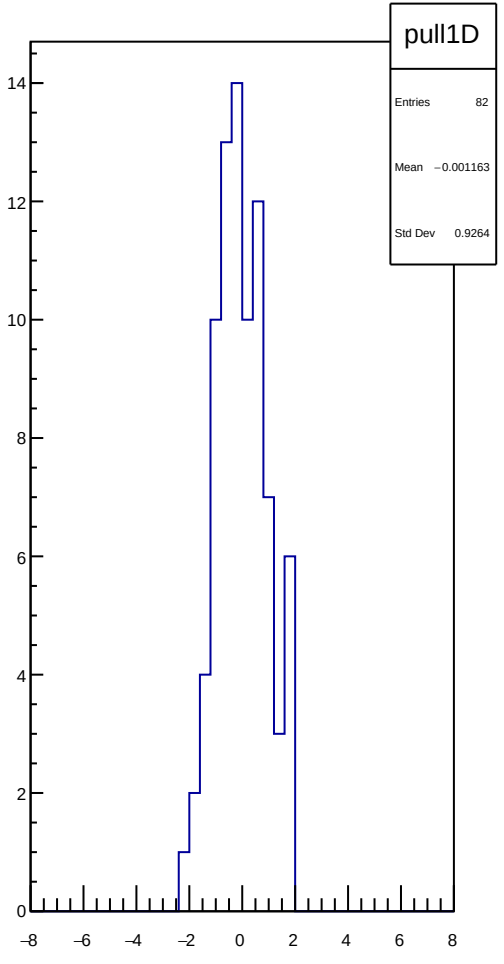

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.619e+04 / 81
p0 1269 ± 0.998
2200
2000
1800
1600
1400
1200

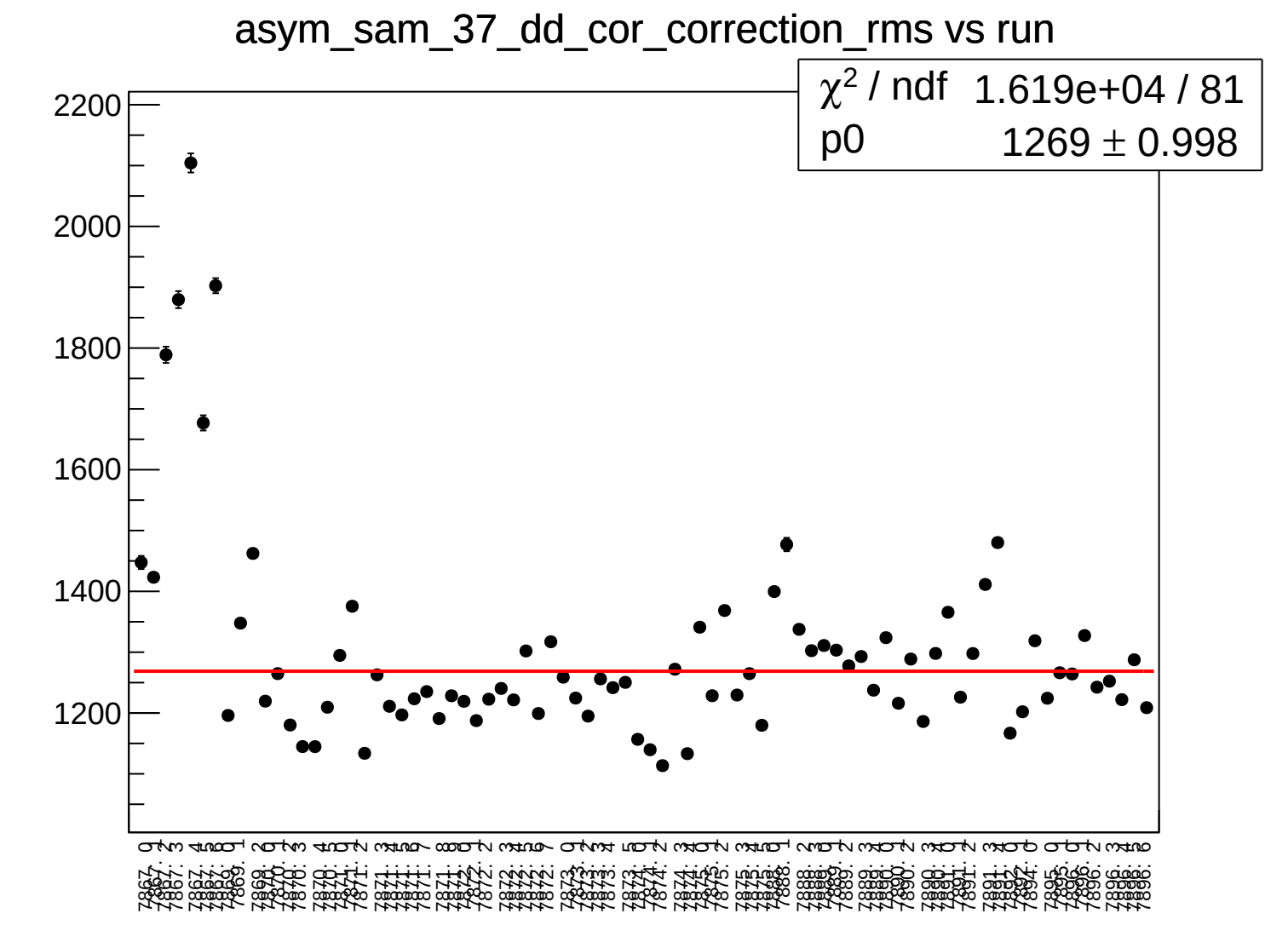

cor_asym_sam_37_dd_mean vs run
χ² / ndf 73.9 / 81
p0 323.4 ± 216.7
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −131.4
Std Dev 0
2
1
0
−1
−2

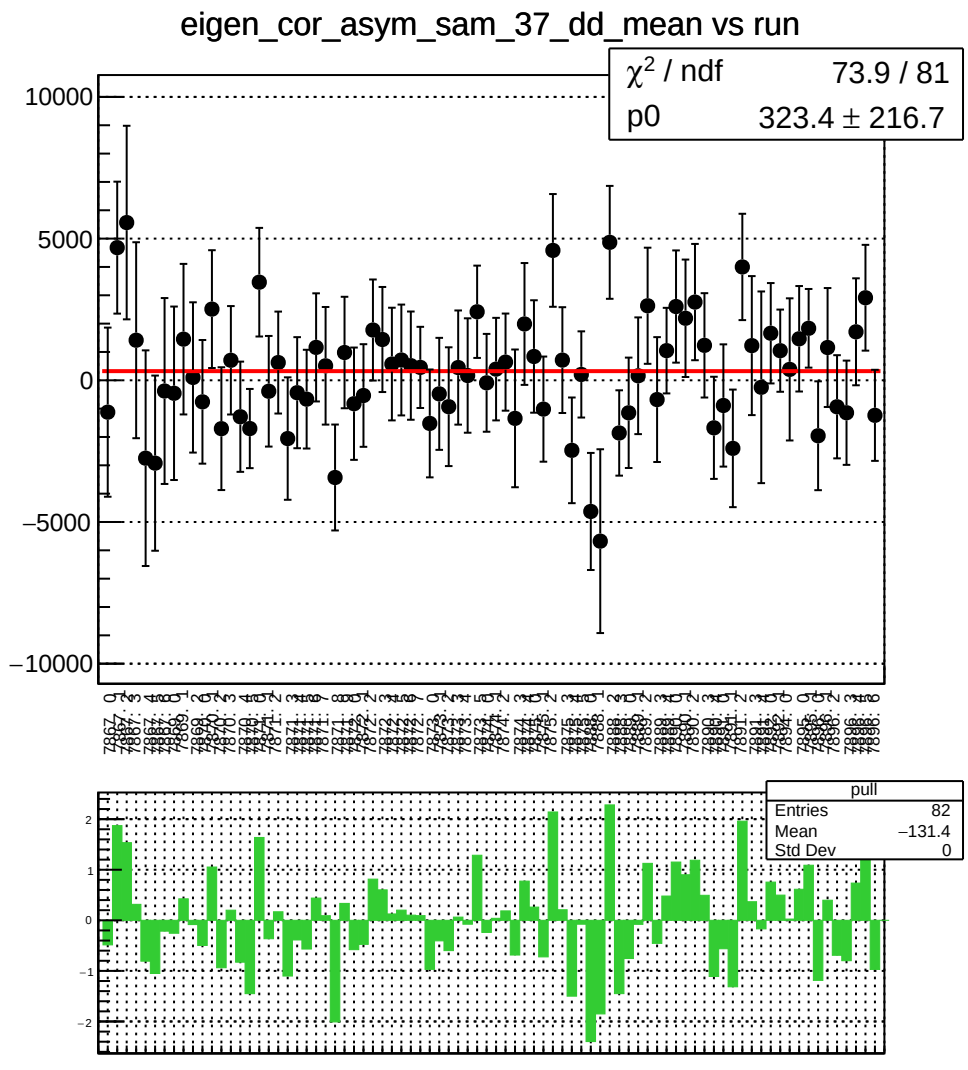

pull1D
Entries 82
Mean −0.008957
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

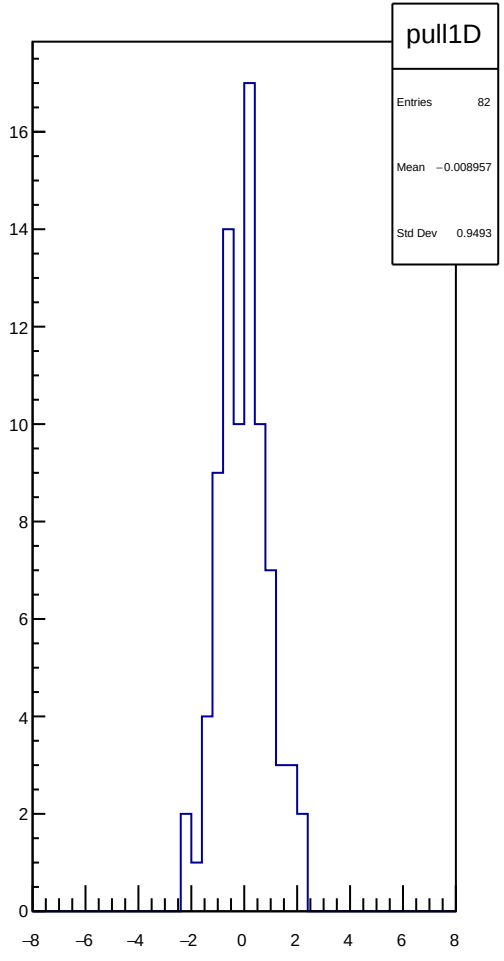

cor_asym_sam_37_dd_rms vs run
χ² / ndf 4.462e+04 / 81
p0 193.1 ± 0.1532
400
350
300
250
200
150

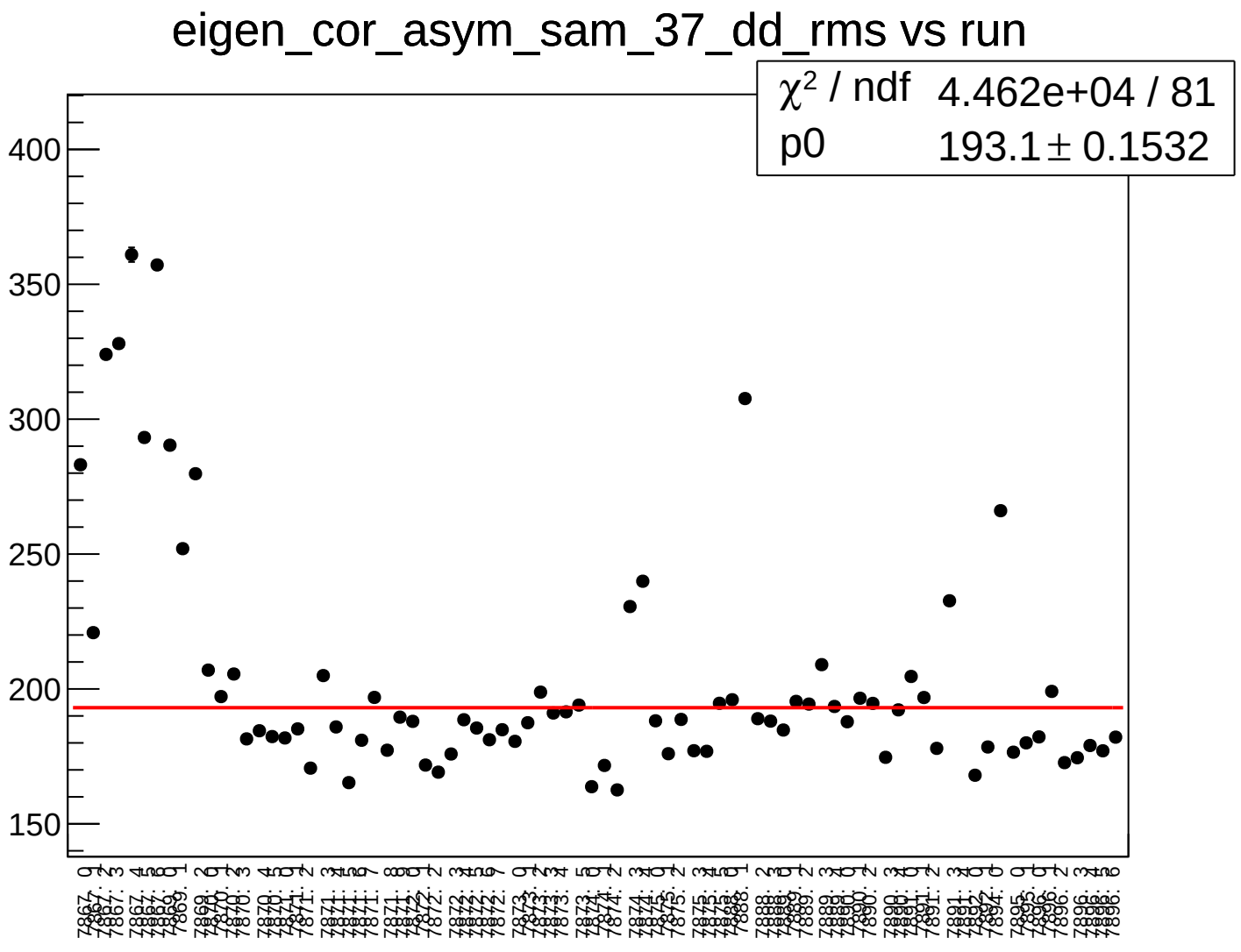

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 70.38 / 81
p0 −448.5 ± 1411
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −928
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

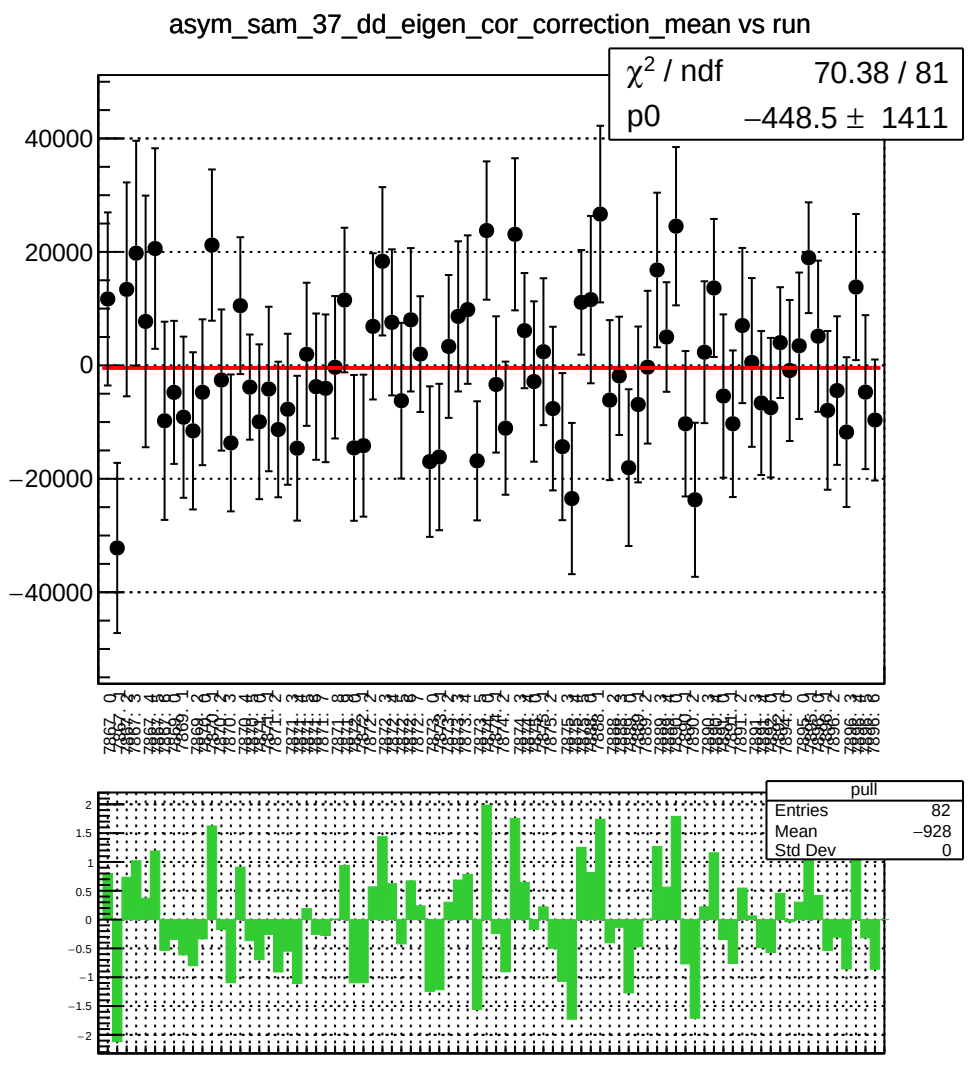

pull1D
Entries 82
Mean −0.001163
Std Dev 0.9264
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

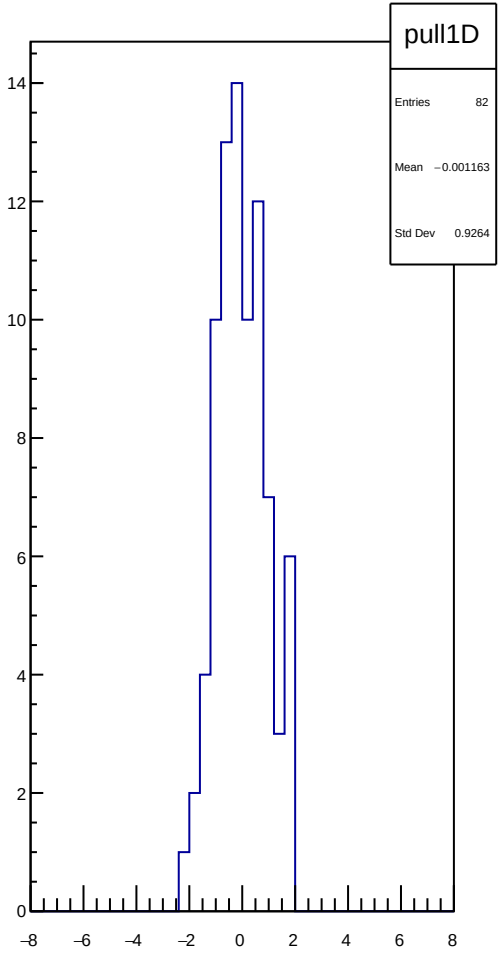

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.619e+04 / 81
p0 1269 ± 0.998
2200
2000
1800
1600
1400
1200

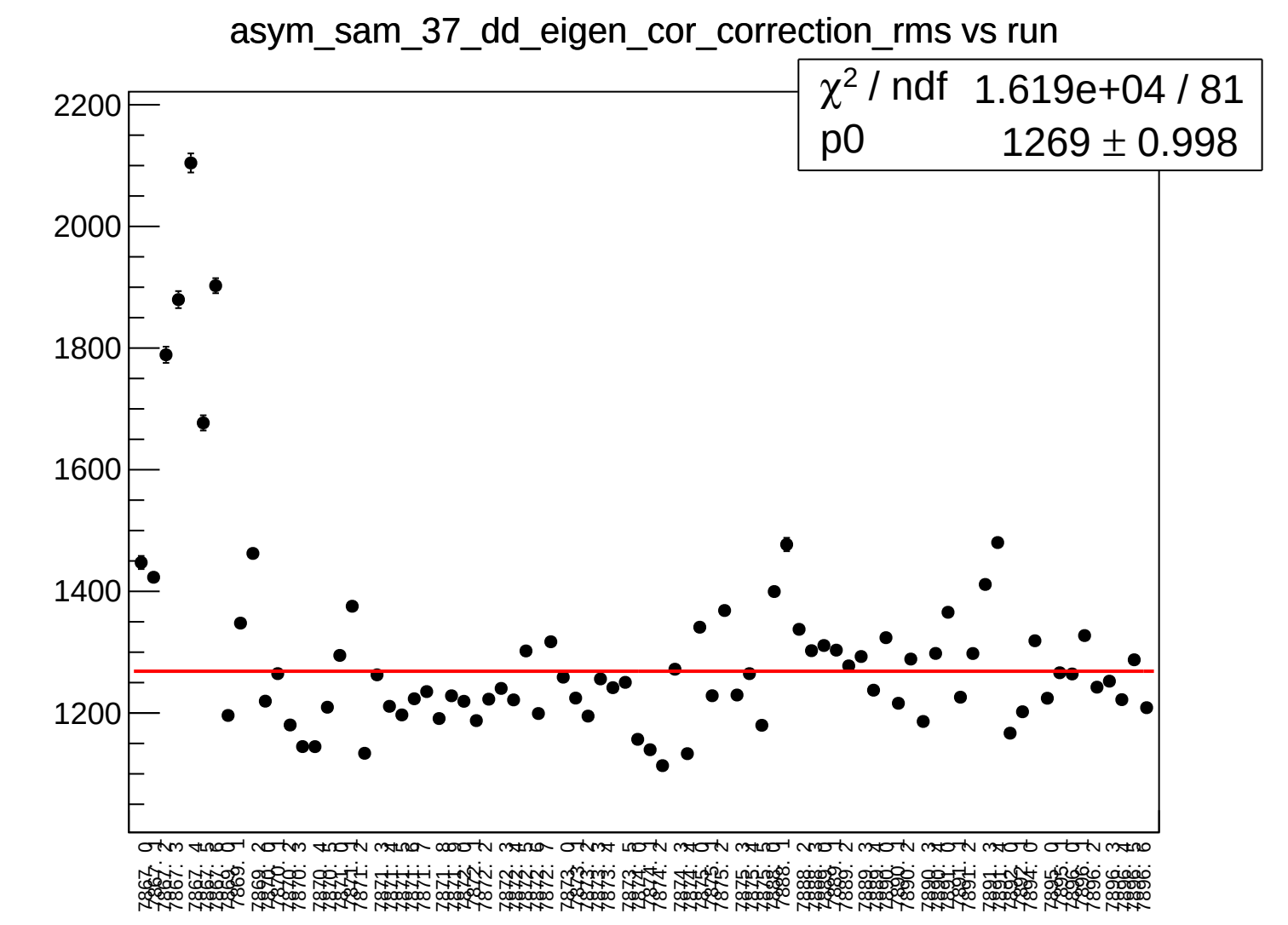

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 73.9 / 81
p0 323.4 ± 216.7
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −131.4
Std Dev 0
2
1
0
−1
−2

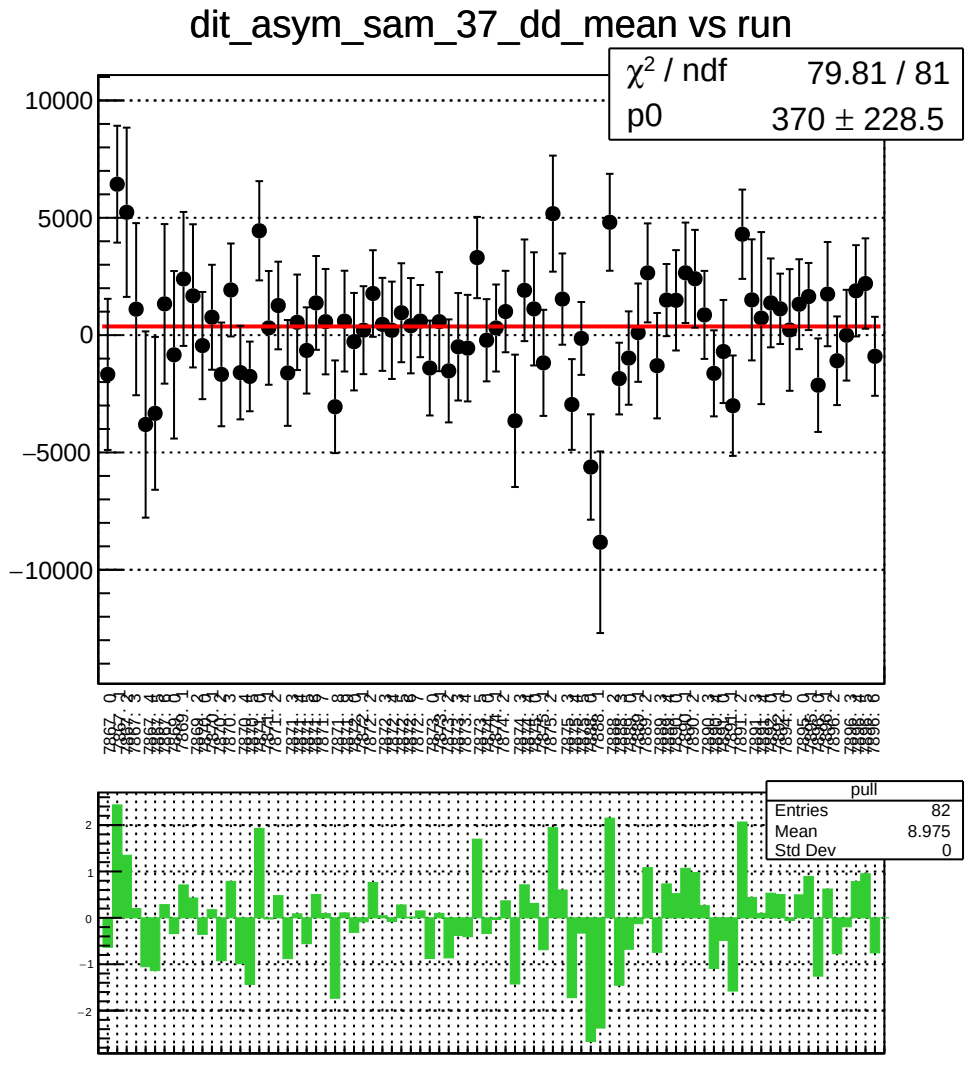

pull1D
Entries 82
Mean −0.008957
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

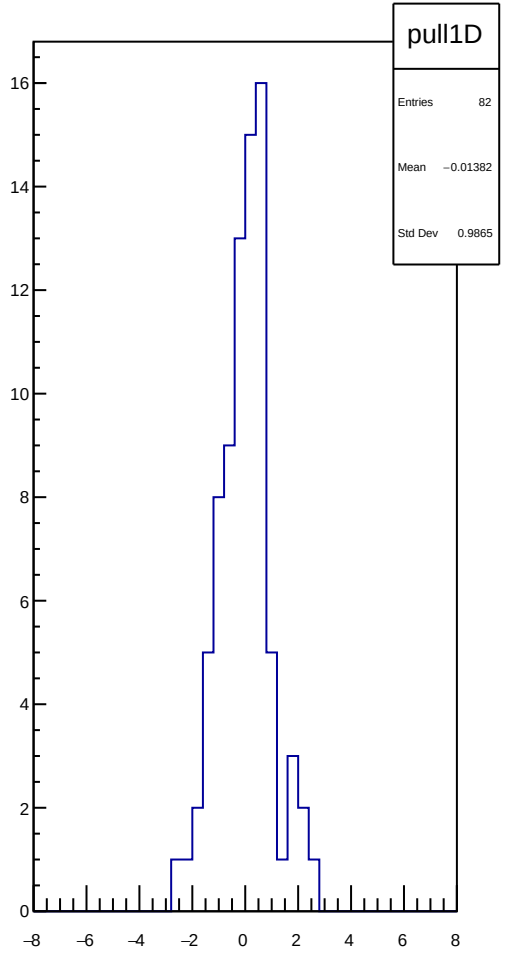

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 4.462e+04 / 81
p0 193.1 ± 0.1532
400
350
300
250
200
150

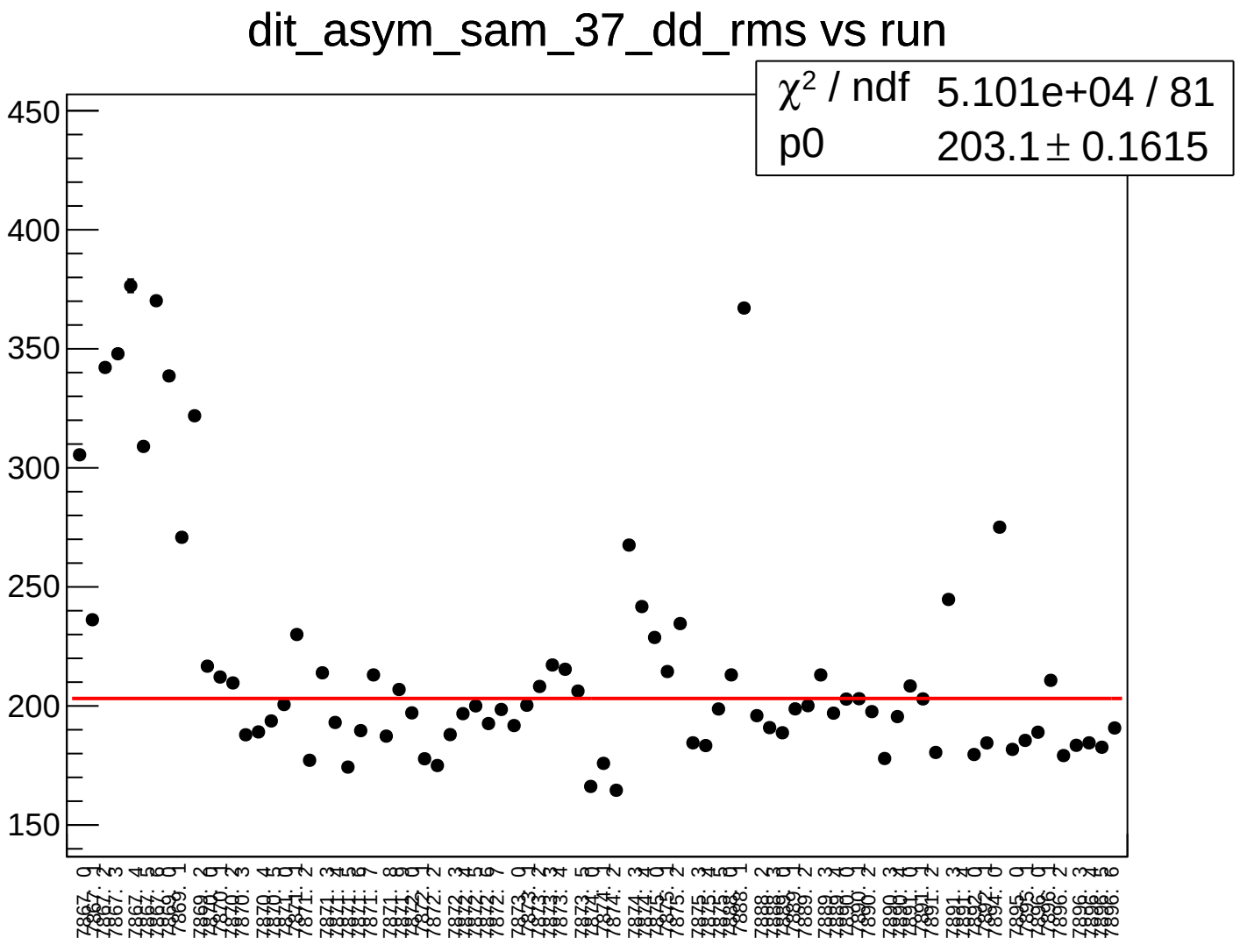

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.38 / 81
p0 −448.5 ± 1411
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −928
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

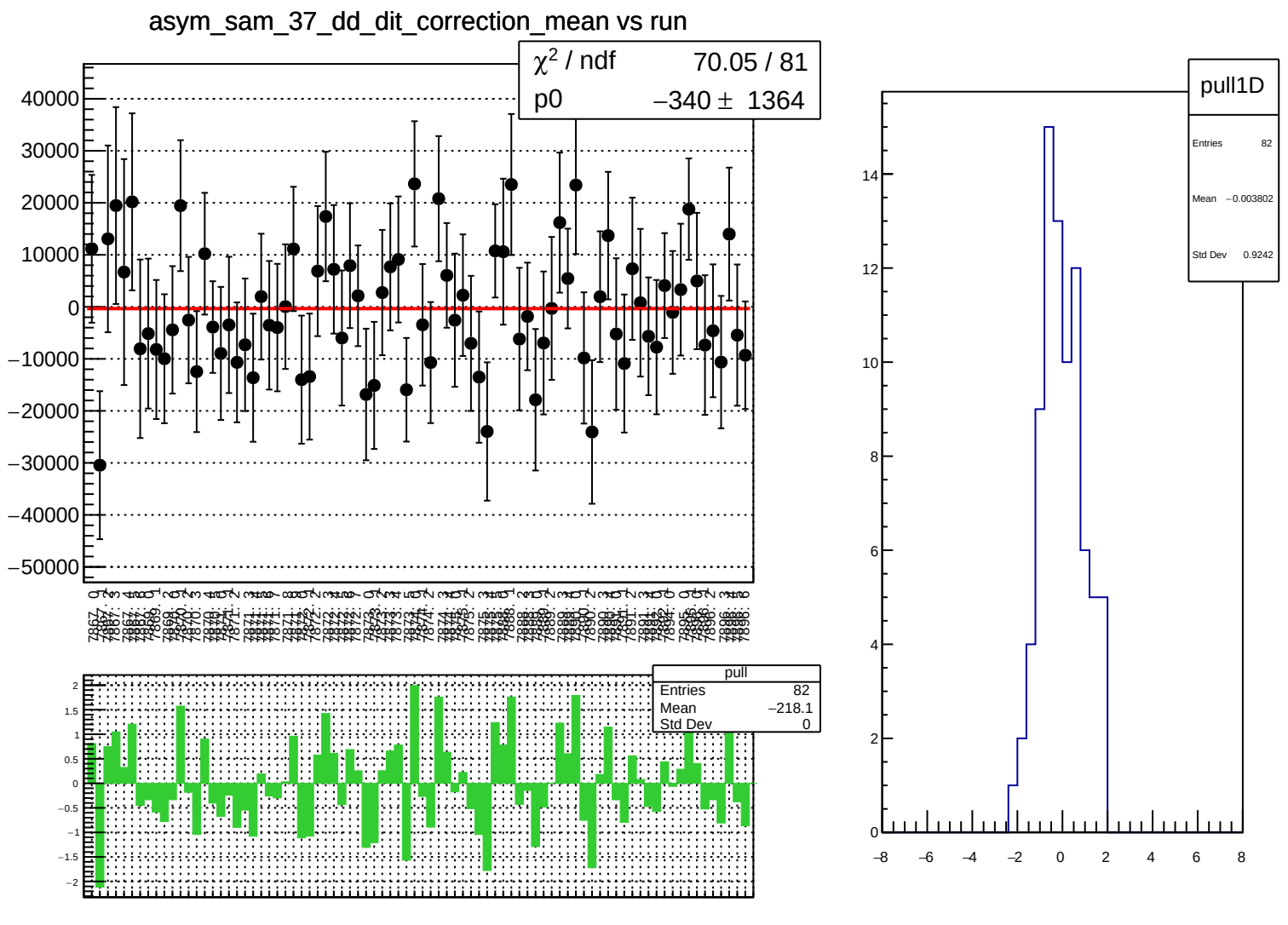

pull1D
Entries 82
Mean −0.001163
Std Dev 0.9264
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

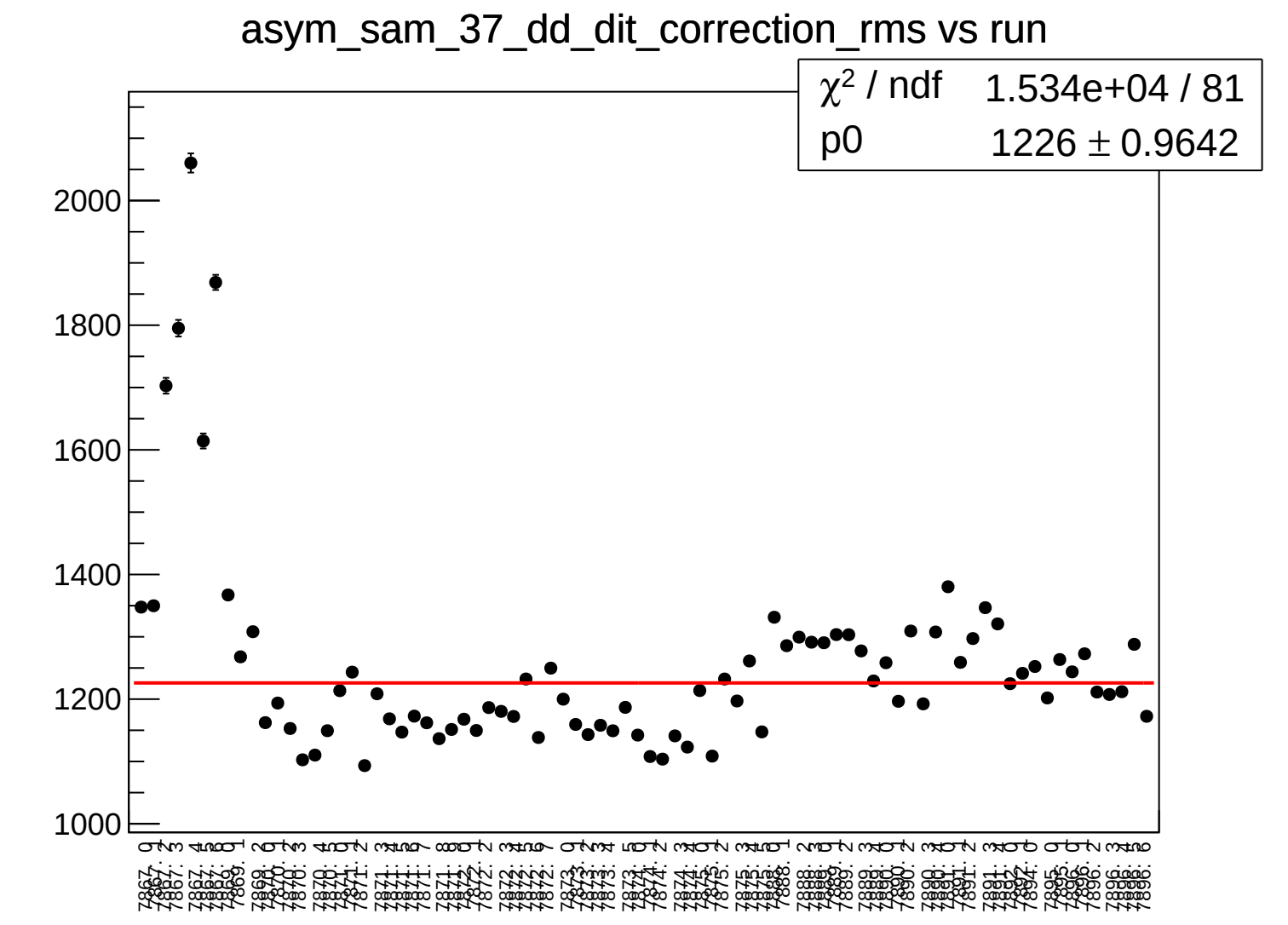

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.619e+04 / 81
p0 1269 ± 0.998
2200
2000
1800
1600
1400
1200

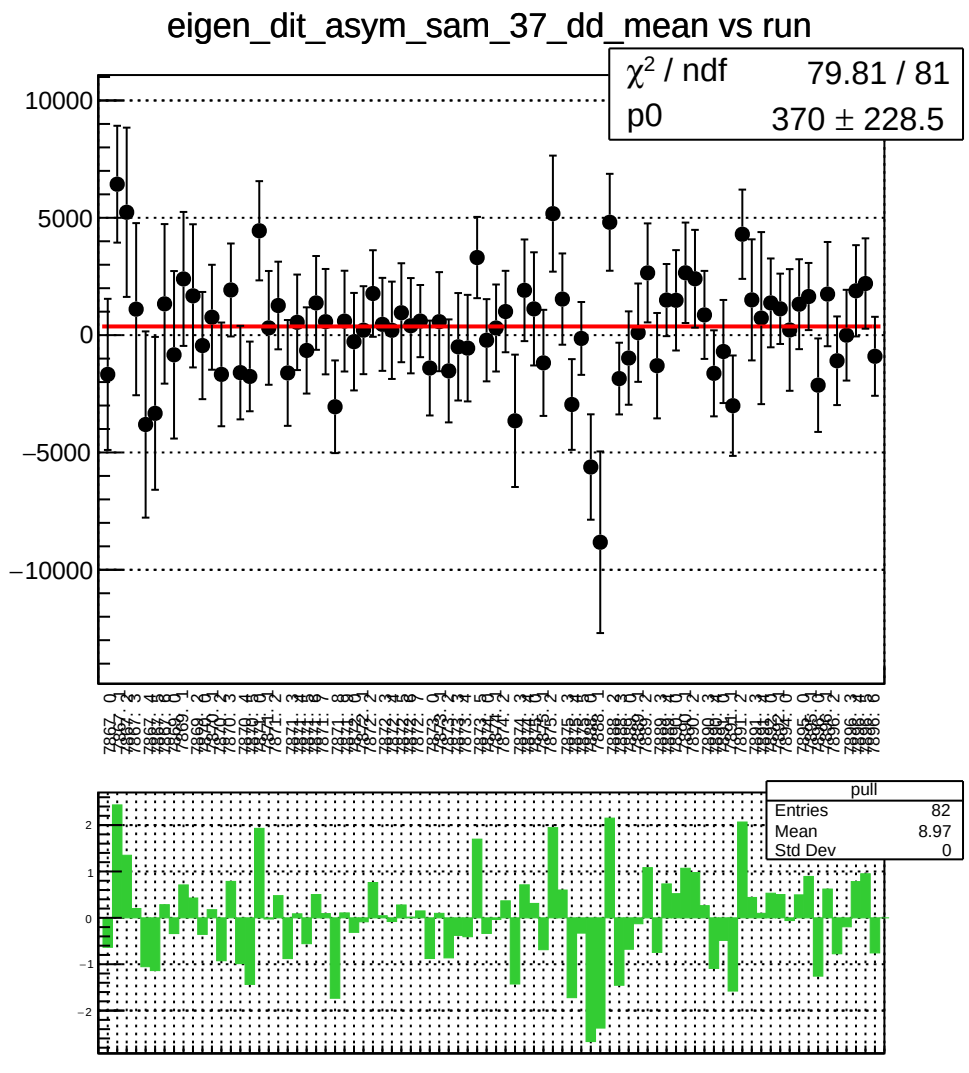

dit_asym_sam_37_dd_mean vs run
χ² / ndf 79.81 / 81
p0 370 ± 228.5
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 8.975
Std Dev 0
2
1
0
−1
−2

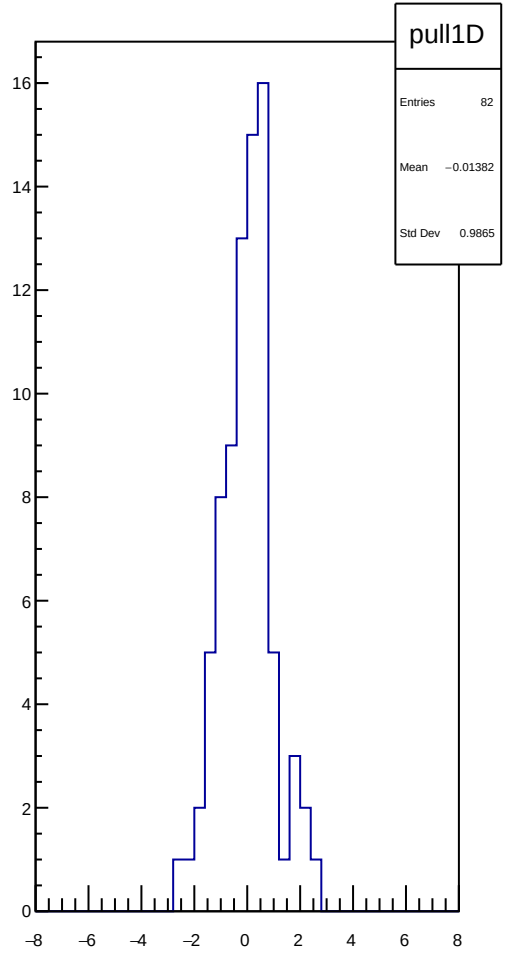

pull1D
Entries 82
Mean −0.01382
Std Dev 0.9865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

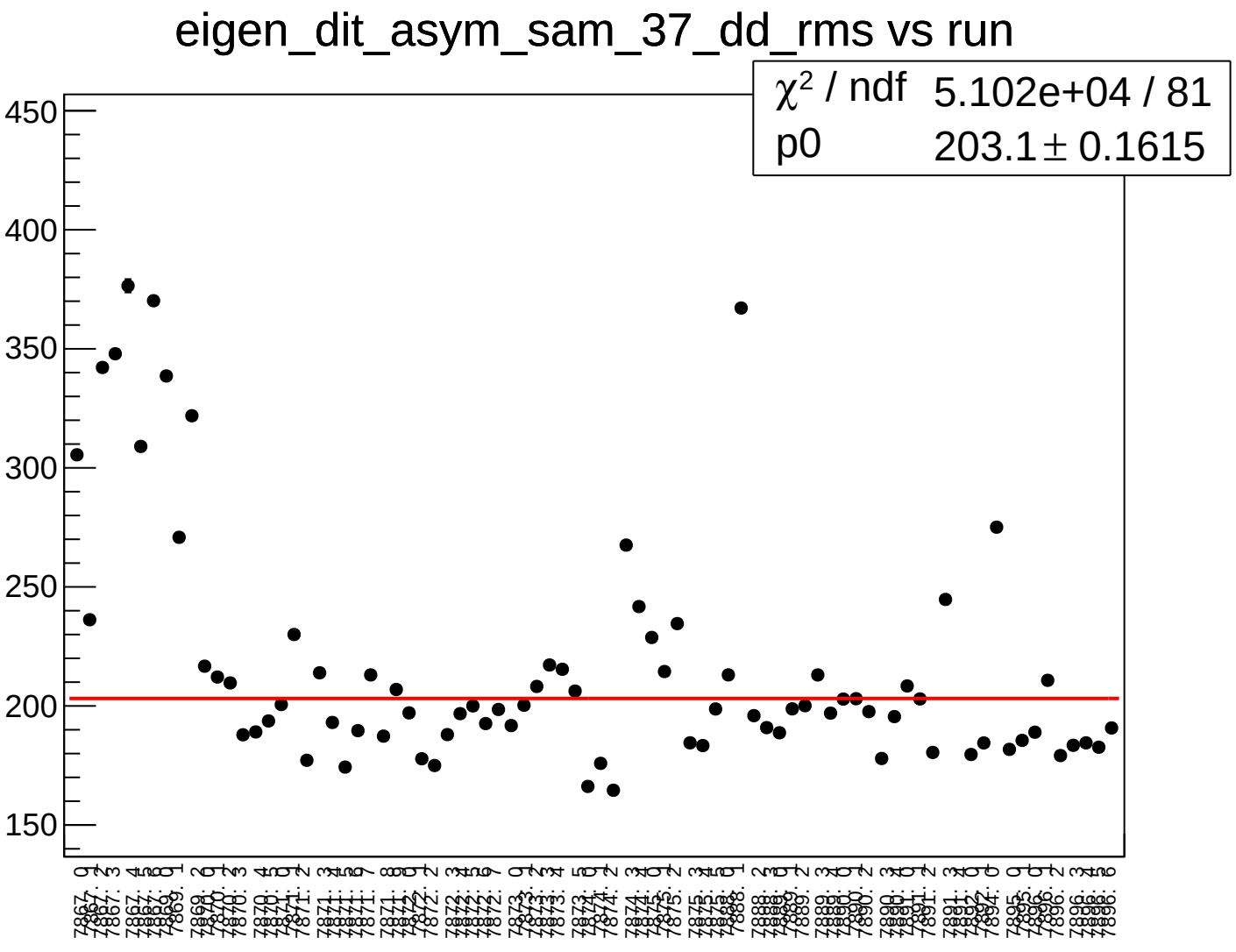

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 5.101e+04 / 81
p0 203.1 ± 0.1615
450
400
350
300
250
200
150

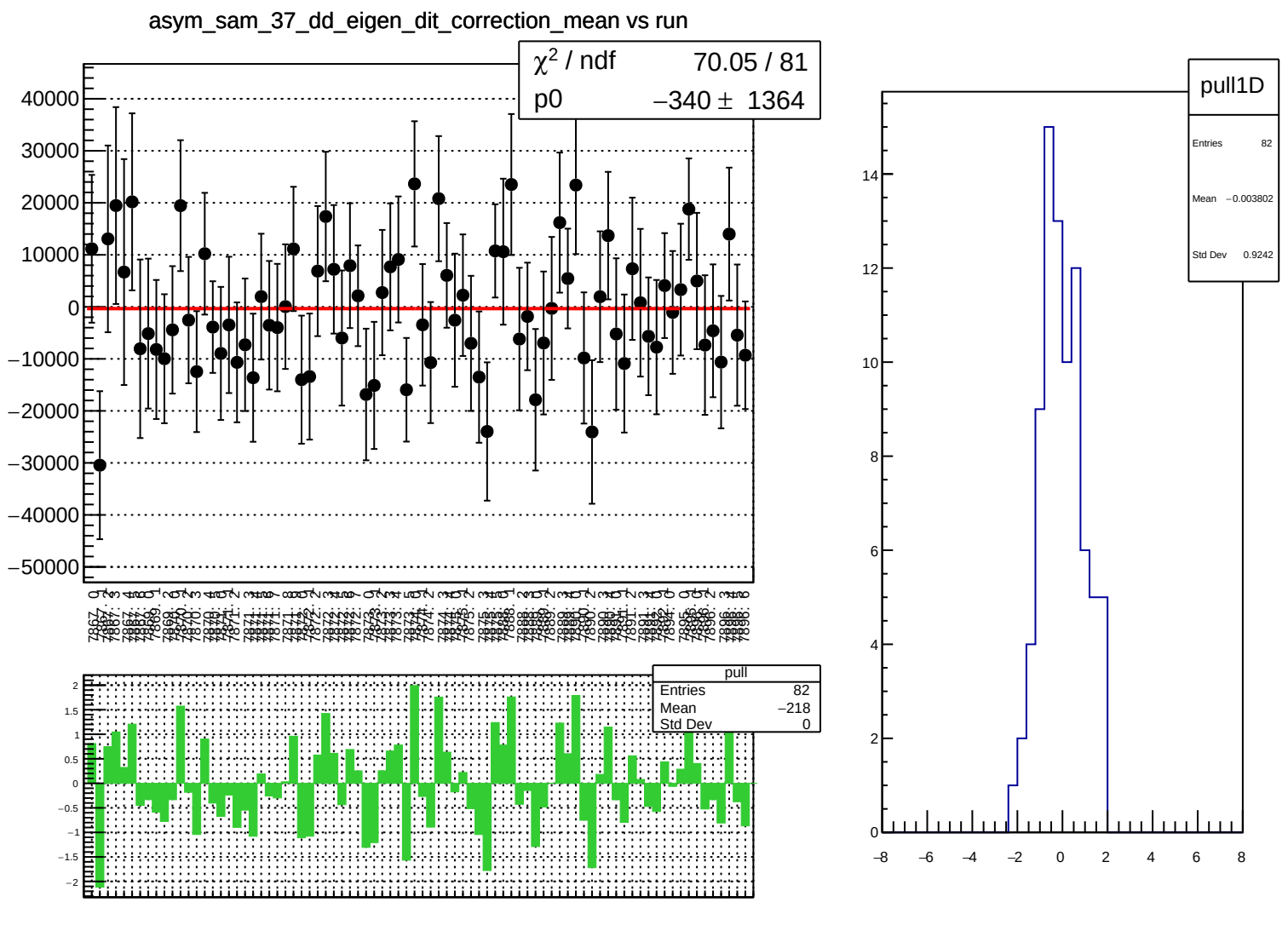

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 70.05 / 81
p0 −340 ± 1364
pull
Entries 82
Mean −218.1
Std Dev 0
pull1D
Entries 82
Mean −0.003802
Std Dev 0.9242

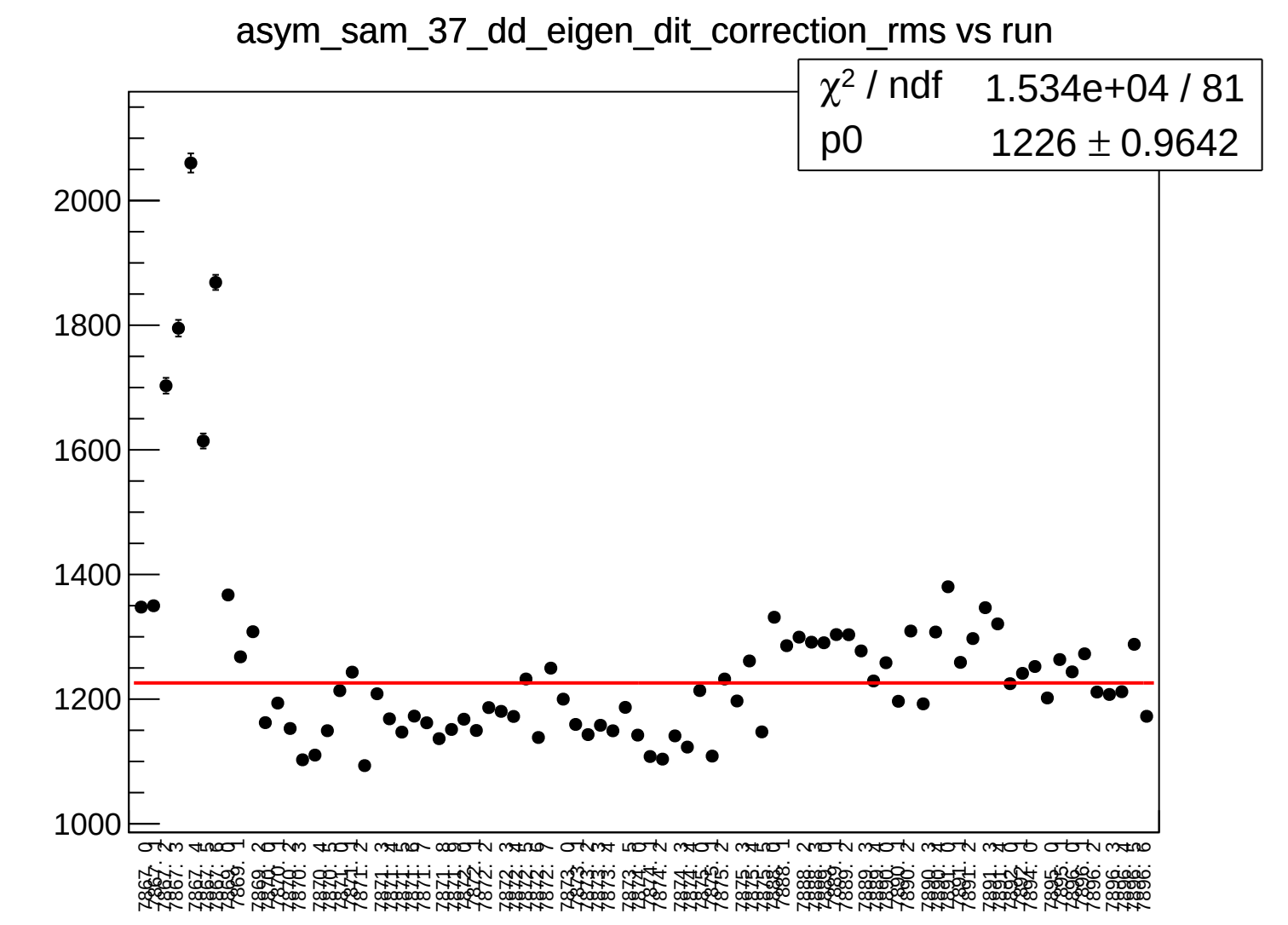

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.534e+04 / 81
p0 1226 ± 0.9642
2000
1800
1600
1400
1200
1000

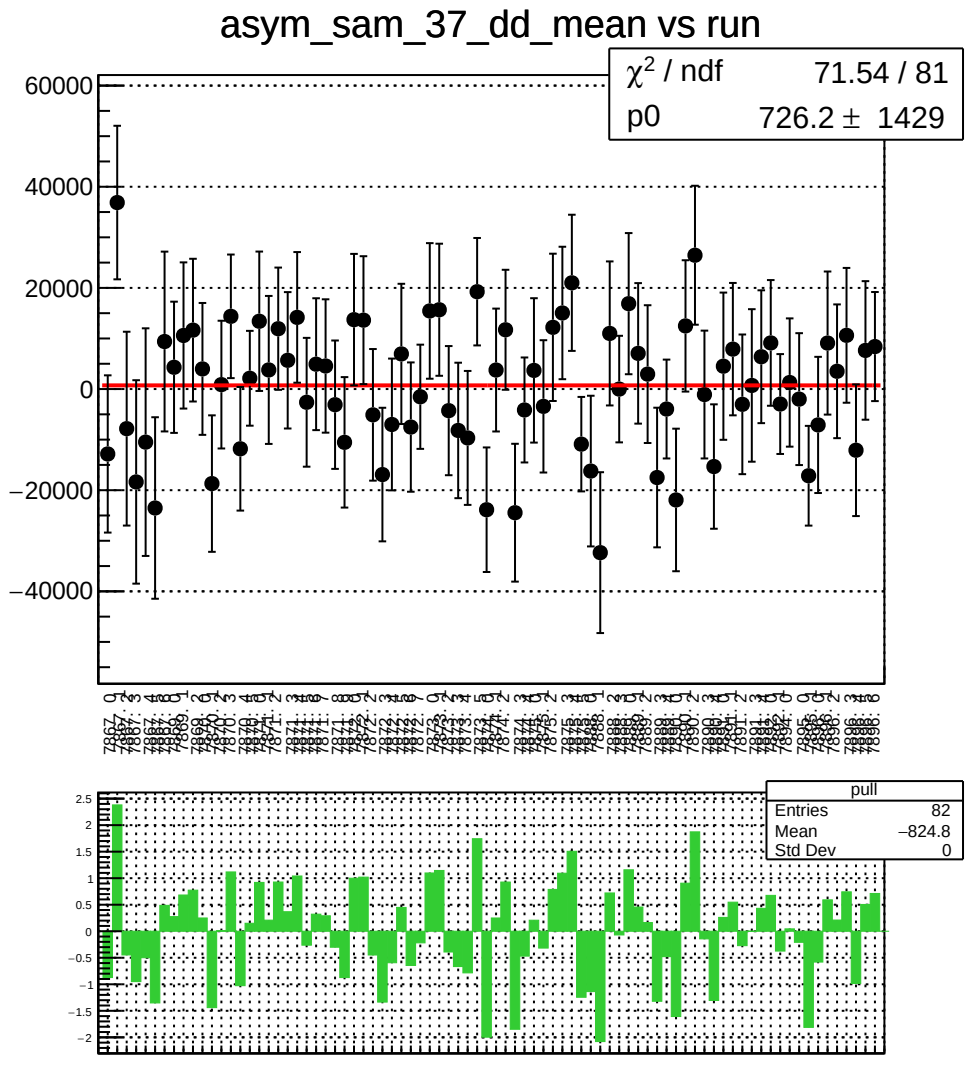

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 79.81 / 81
p0 370 ± 228.5
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 8.97
Std Dev 0
2
1
0
−1
−2

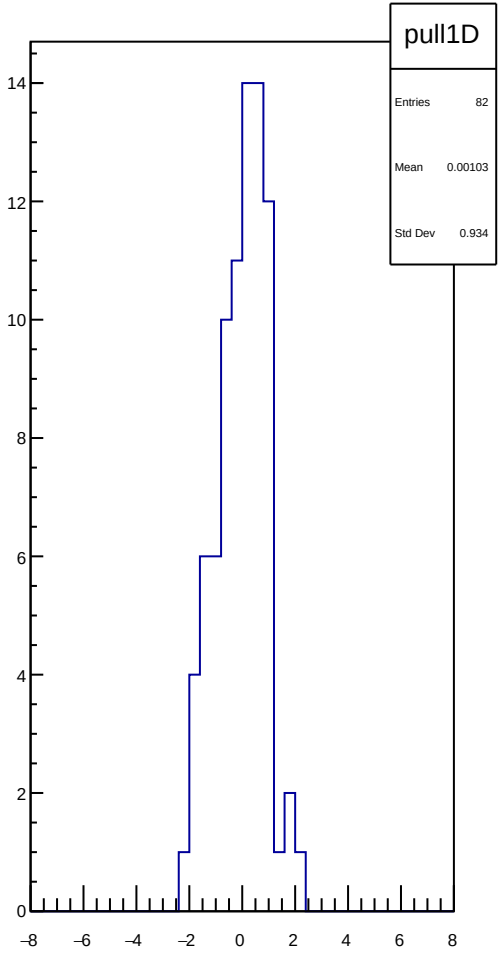

pull1D
Entries 82
Mean −0.01382
Std Dev 0.9865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

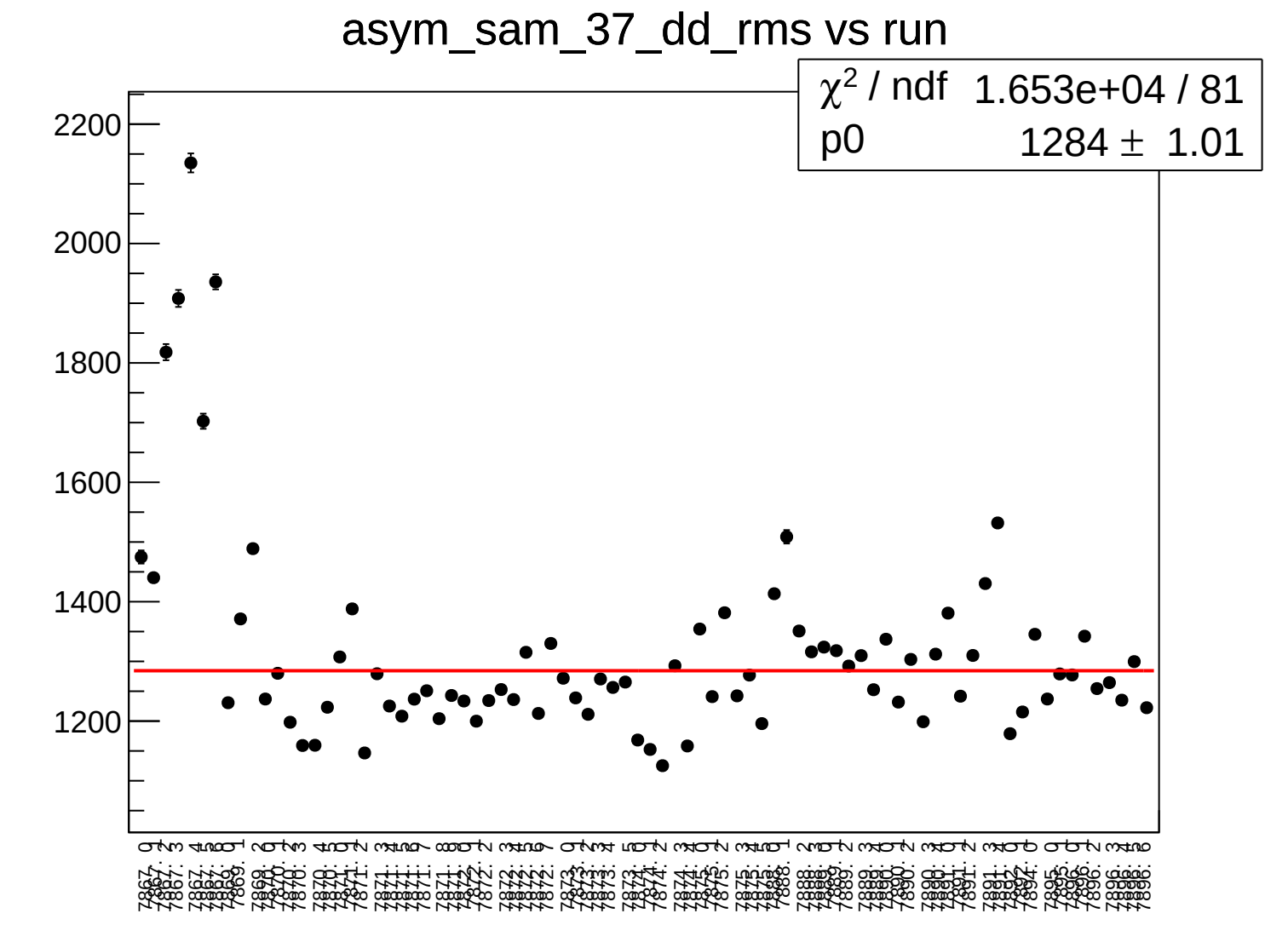

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 5.102e+04 / 81
p0 203.1 ± 0.1615
450
400
350
300
250
200
150

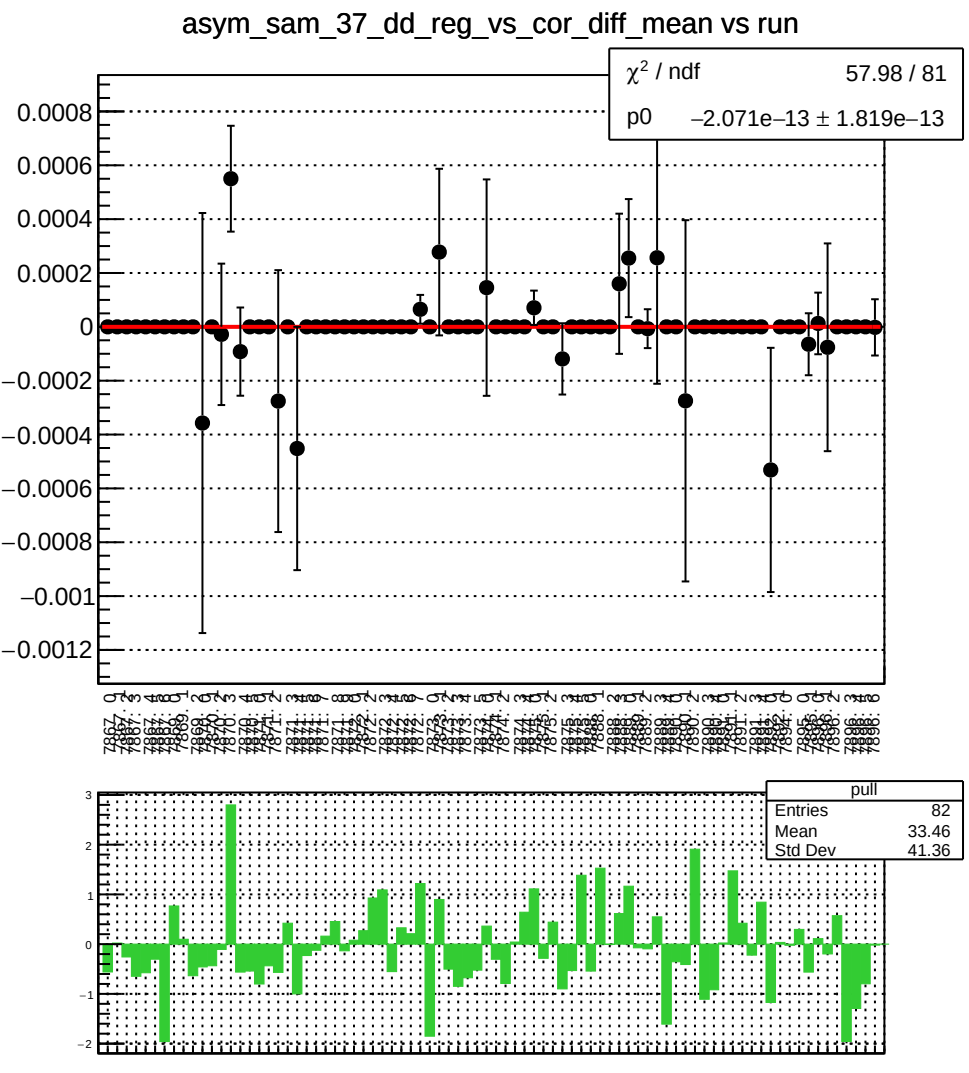

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.05 / 81
p0 −340 ± 1364
pull
Entries 82
Mean −218
Std Dev 0
pull1D
Entries 82
Mean −0.003802
Std Dev 0.9242

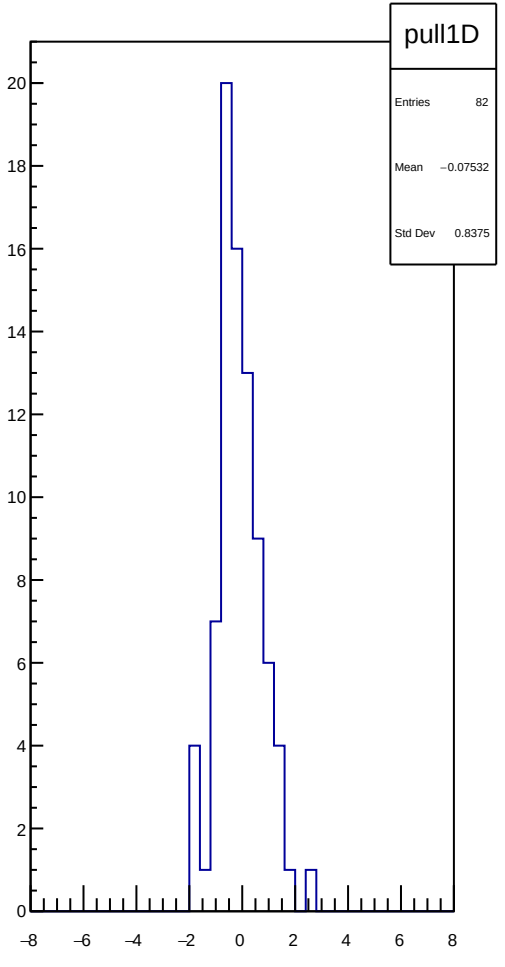

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.534e+04 / 81
p0 1226 ± 0.9642
2000
1800
1600
1400
1200
1000

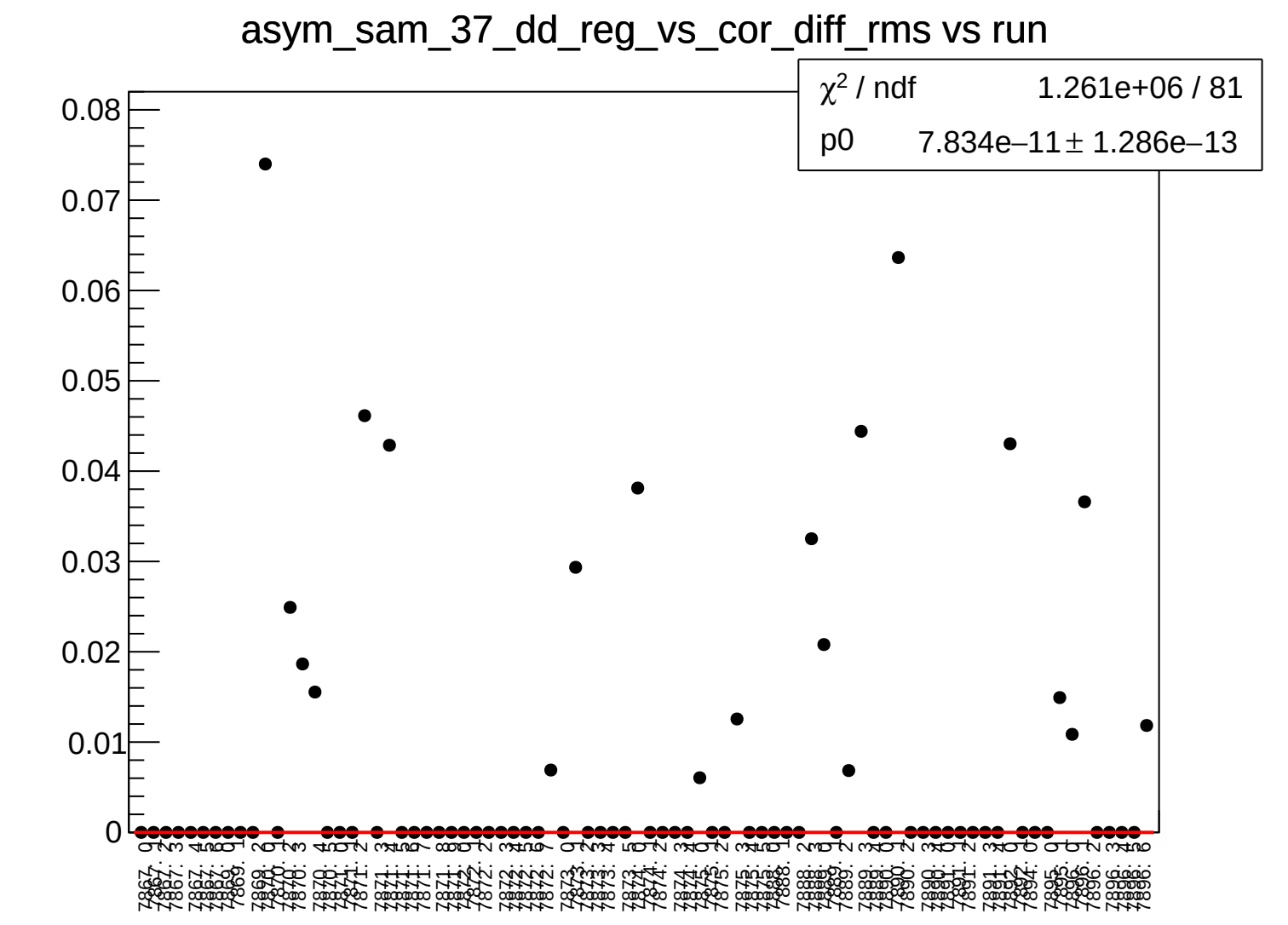

asym_sam_37_dd_mean vs run
χ² / ndf 71.54 / 81
p0 726.2 ± 1429
pull
Entries 82
Mean −824.8
Std Dev 0

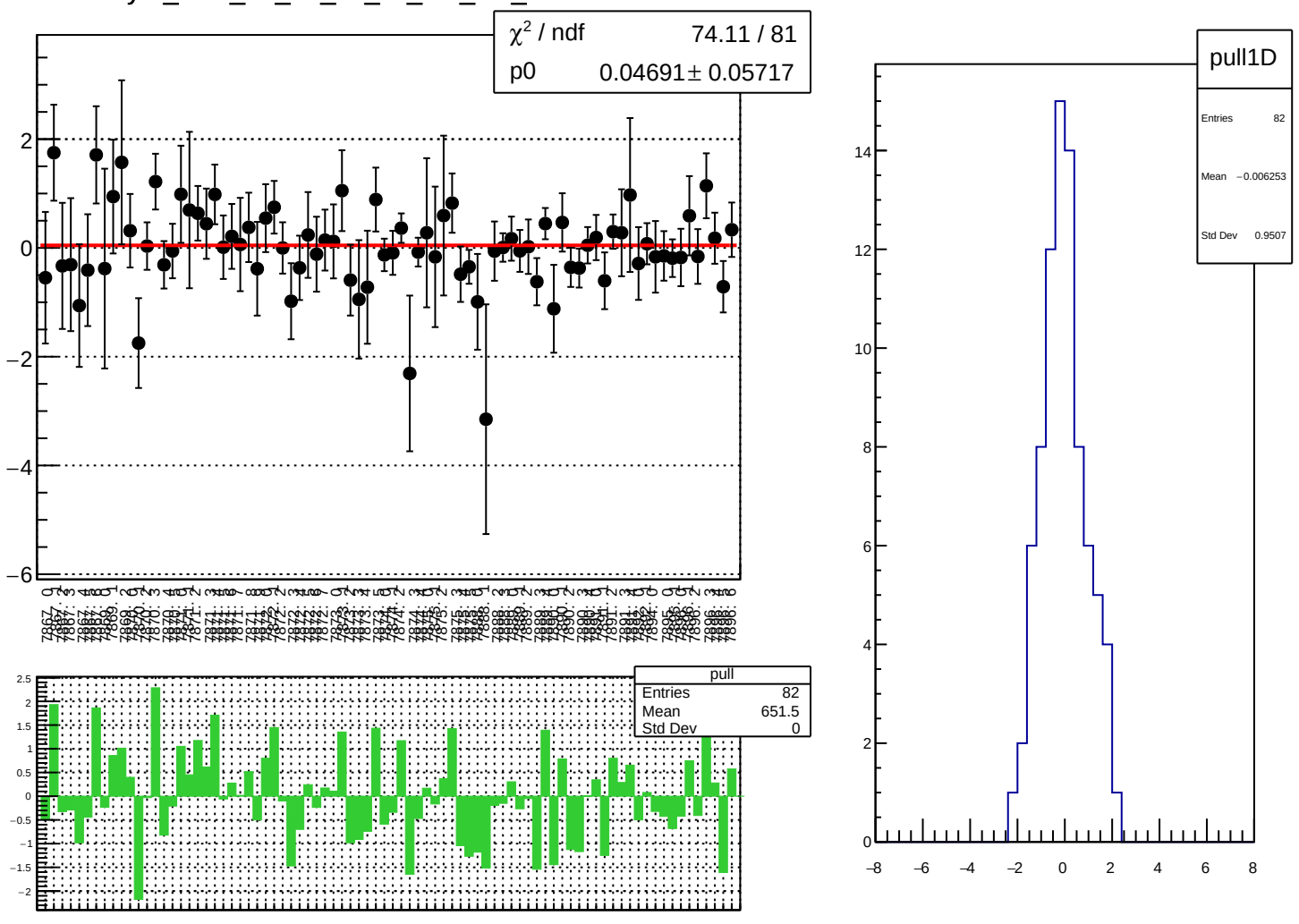

pull1D
Entries 82
Mean 0.00103
Std Dev 0.934

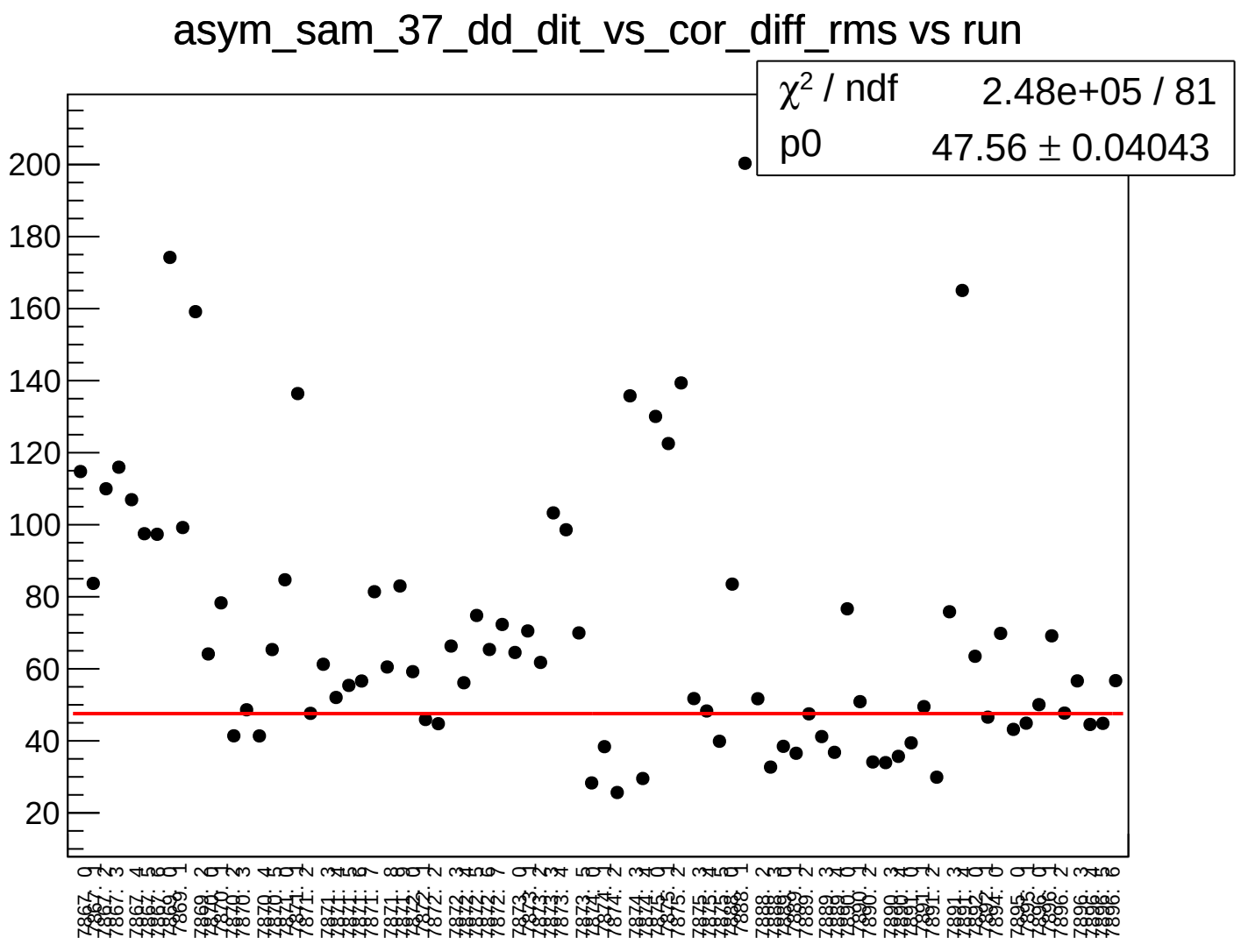

asym_sam_37_dd_rms vs run
χ² / ndf 1.653e+04 / 81
p0 1284 ± 1.01
2200
2000
1800
1600
1400
1200

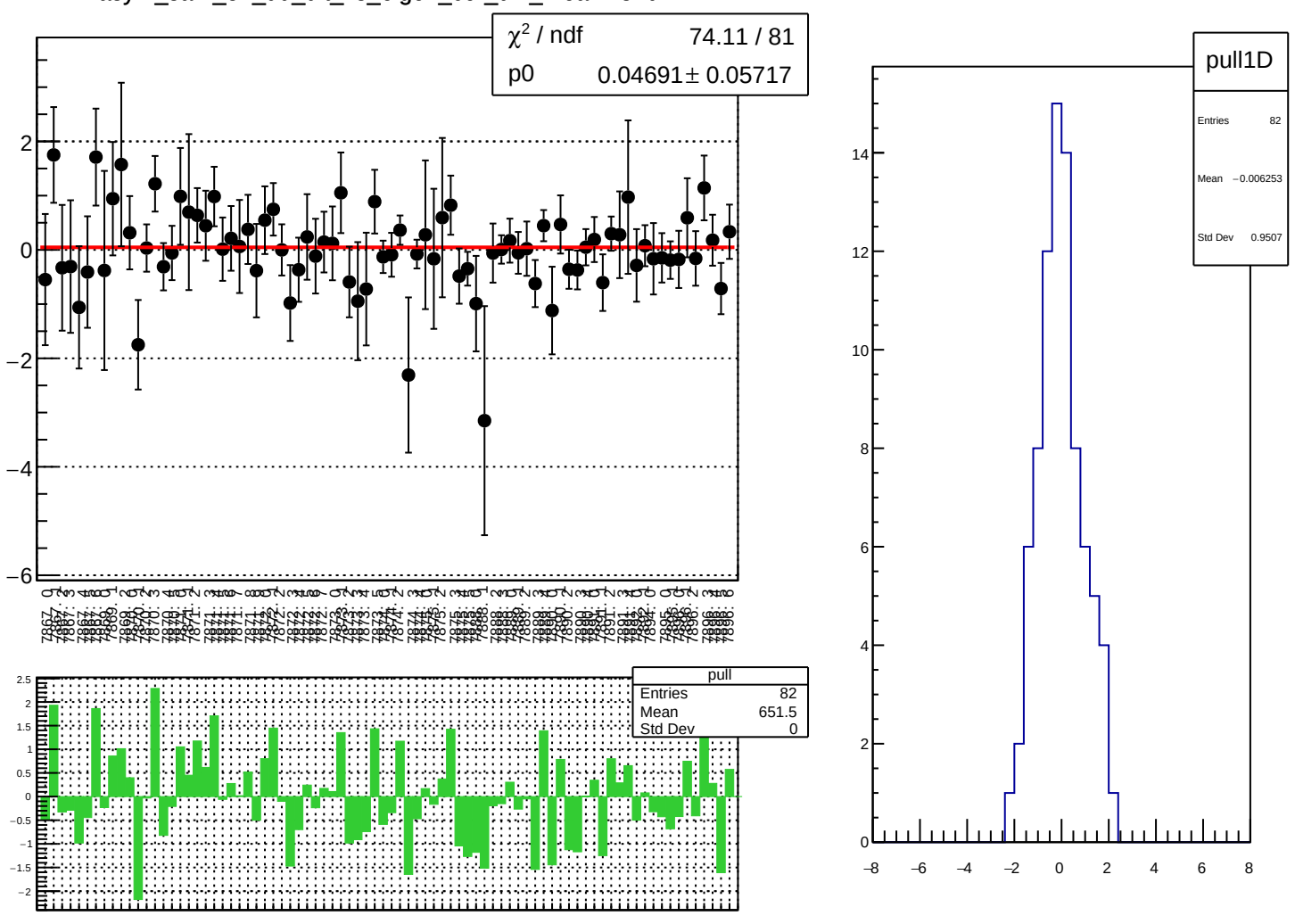

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 57.98 / 81
p0 −2.071e−13 ± 1.819e−13
pull
Entries 82
Mean 33.46
Std Dev 41.36

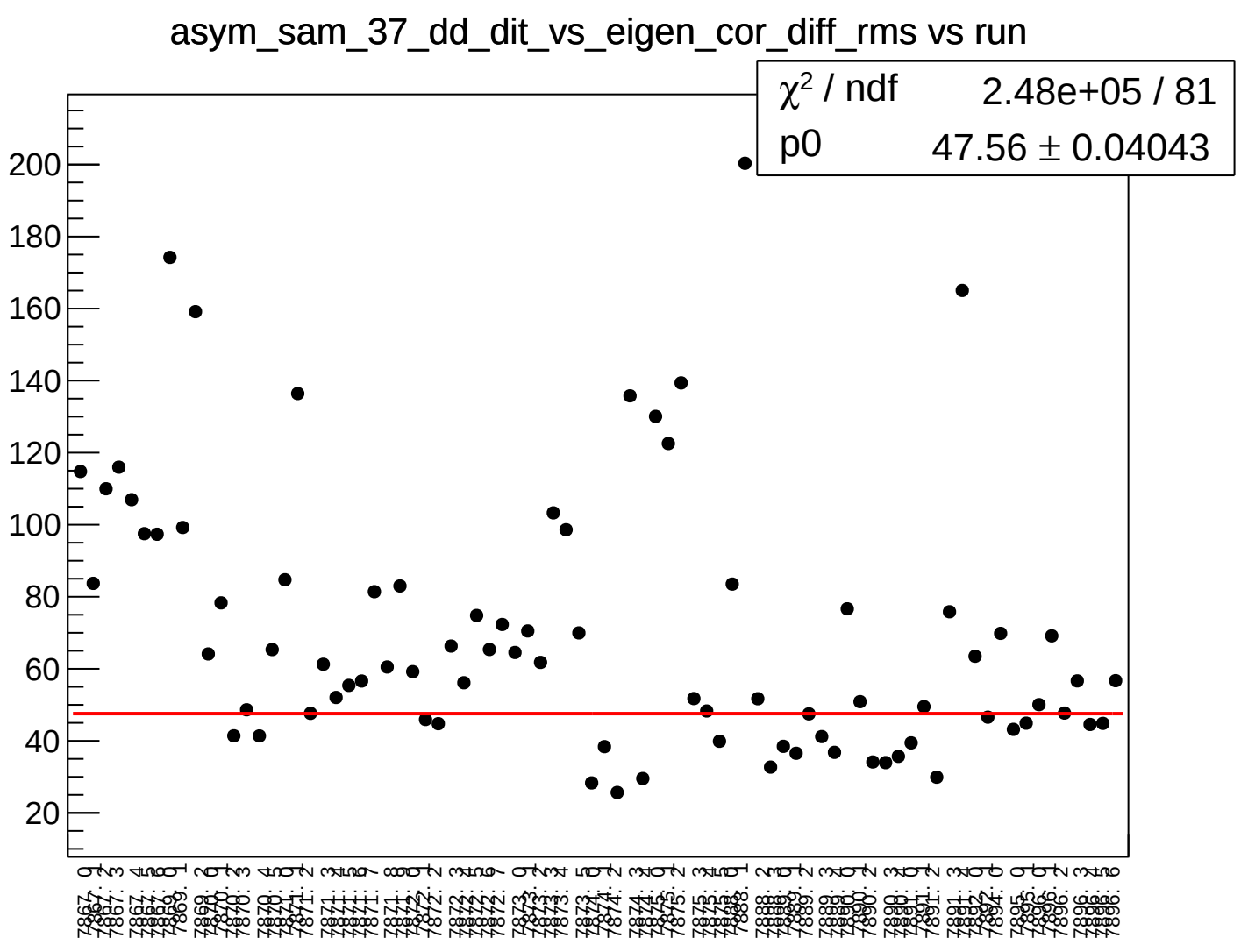

pull1D
Entries 82
Mean −0.07532
Std Dev 0.8375

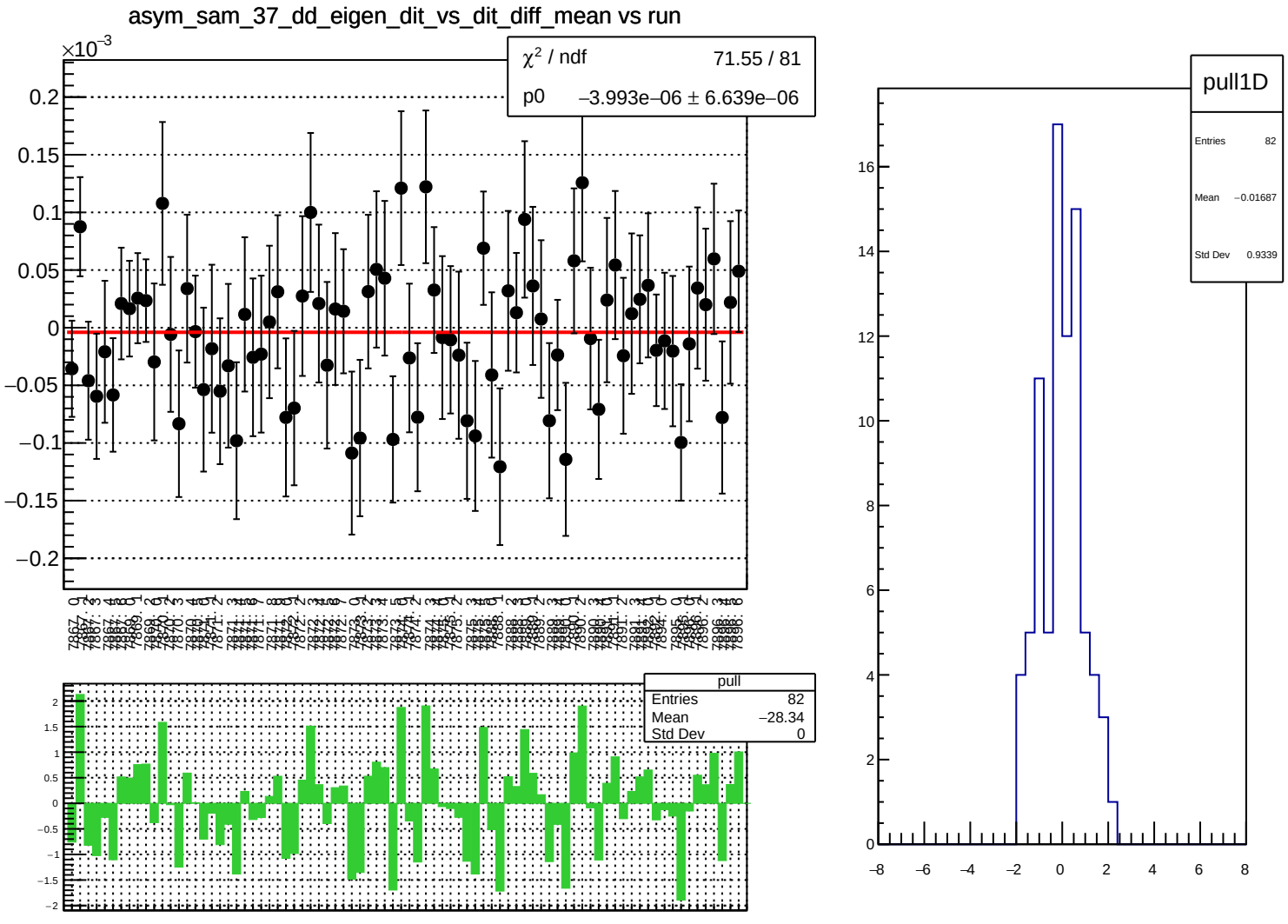

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.261e+06 / 81
p0 7.834e−11 ± 1.286e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

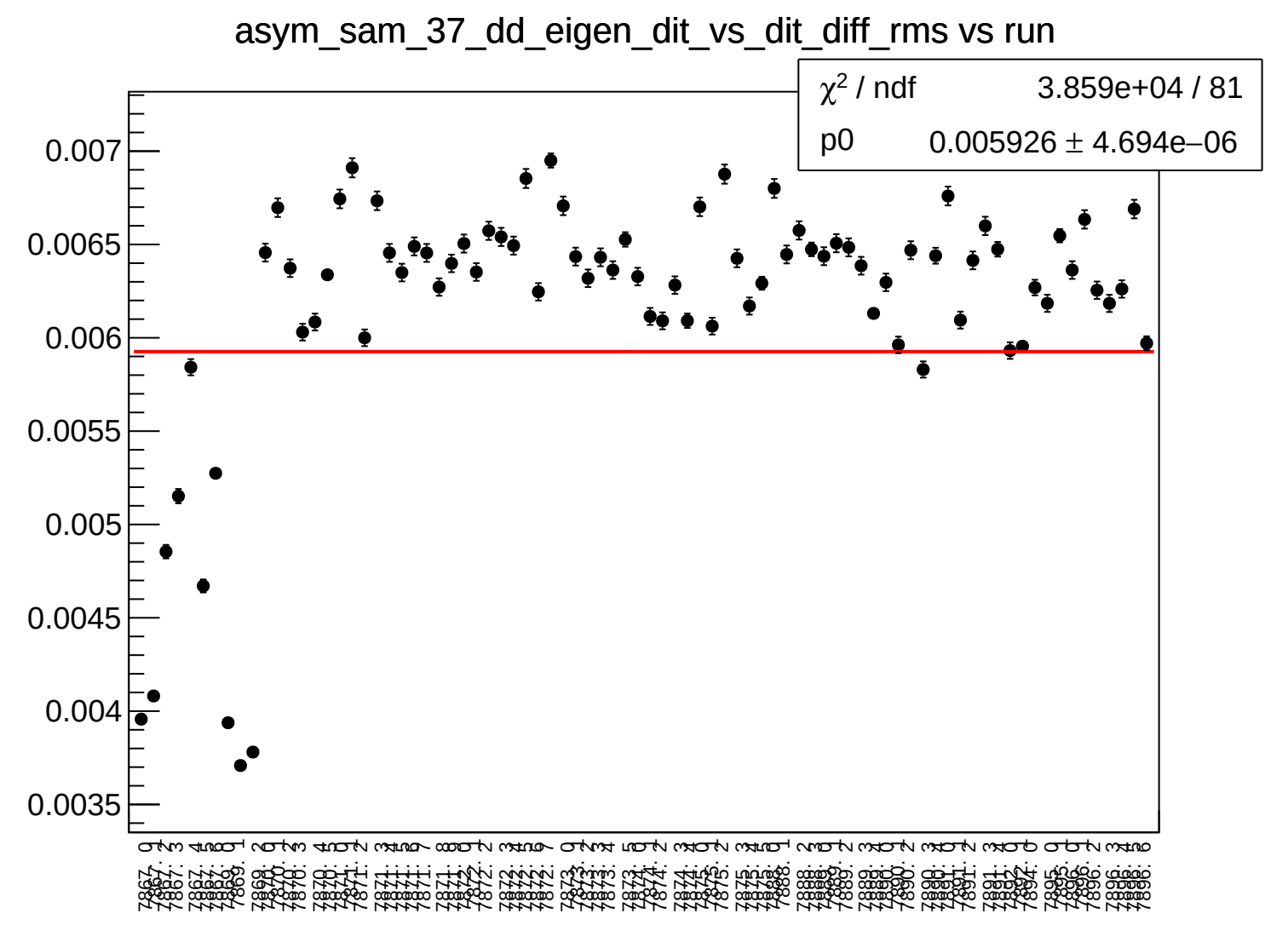

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.11 / 81
p0 0.04691 ± 0.05717
pull
Entries 82
Mean 651.5
Std Dev 0
pull1D
Entries 82
Mean −0.006253
Std Dev 0.9507

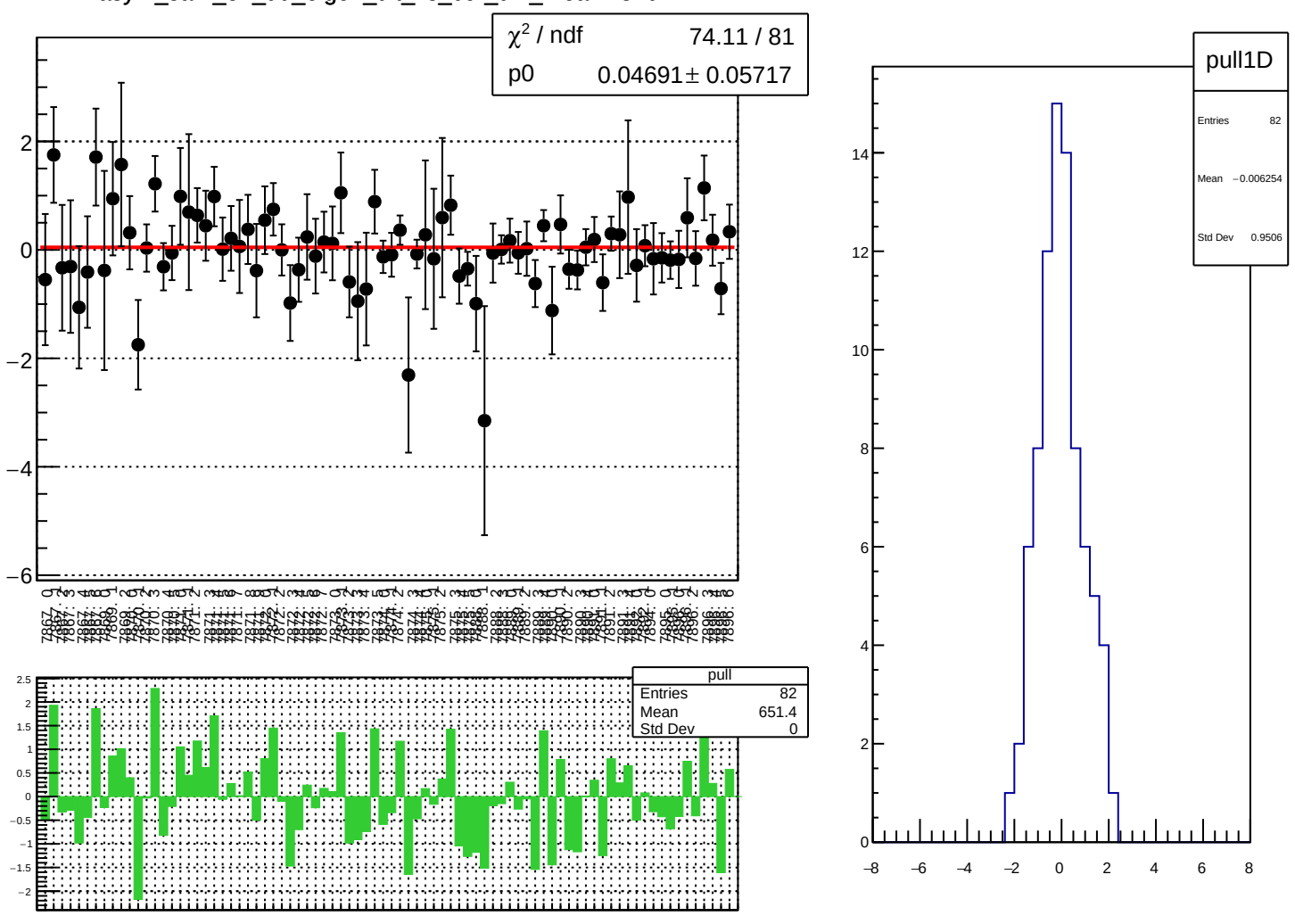

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 81
p0 47.56 ± 0.04043
200
180
160
140
120
100
80
60
40
20

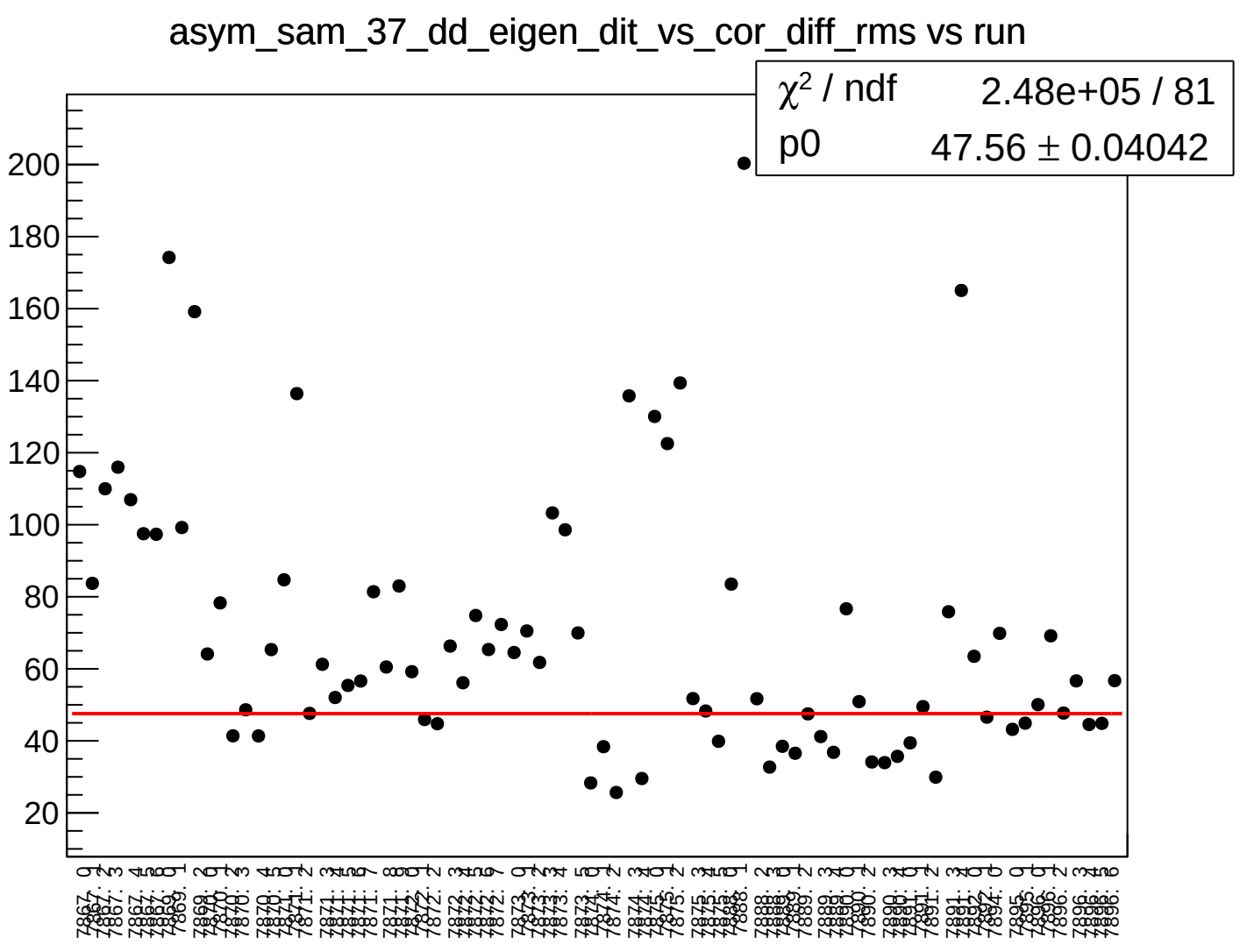

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.11 / 81
p0 0.04691 ± 0.05717
pull
Entries 82
Mean 651.5
Std Dev 0
pull1D
Entries 82
Mean −0.006253
Std Dev 0.9507

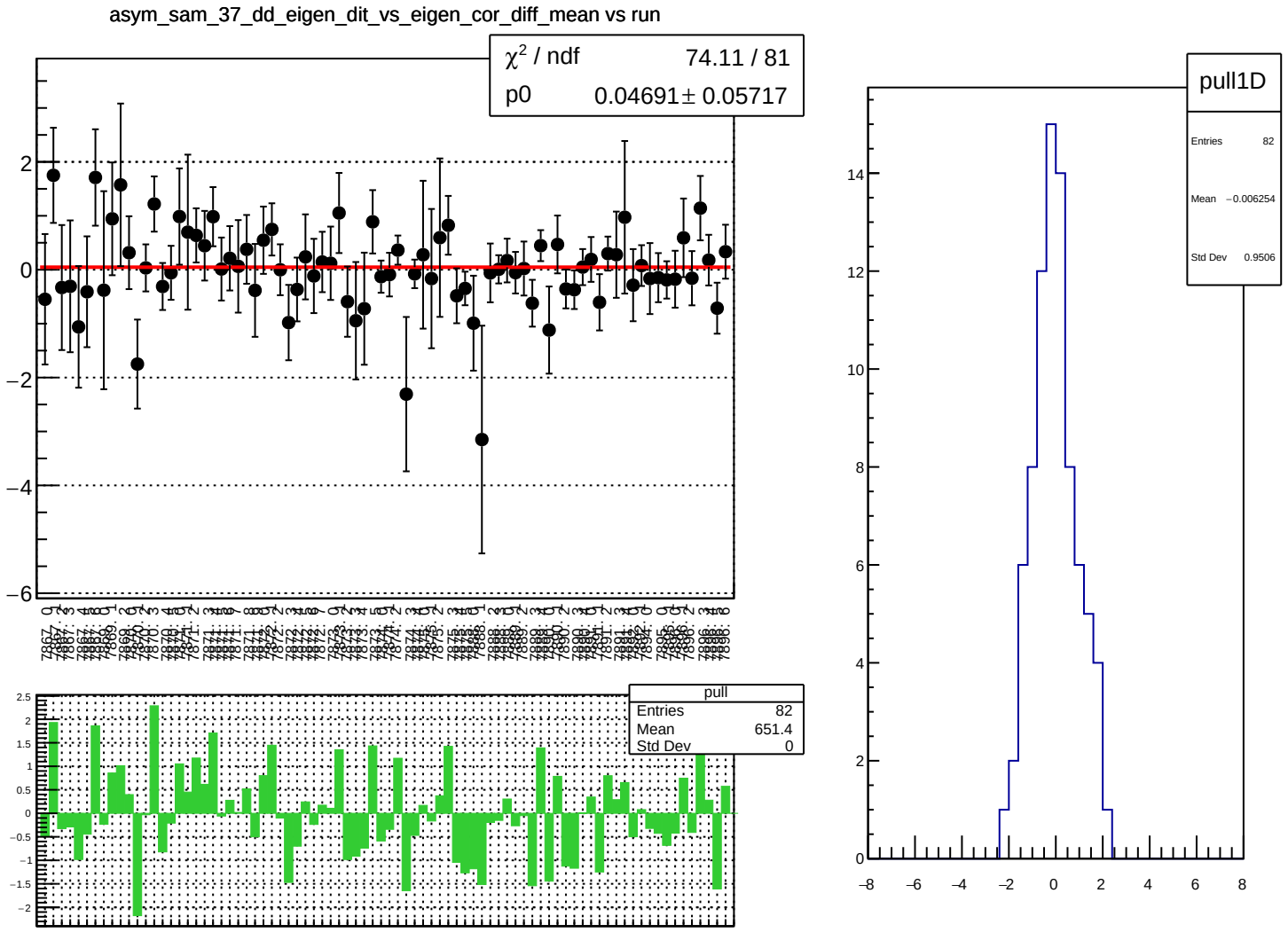

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 81
p0 47.56 ± 0.04043
200
180
160
140
120
100
80
60
40
20

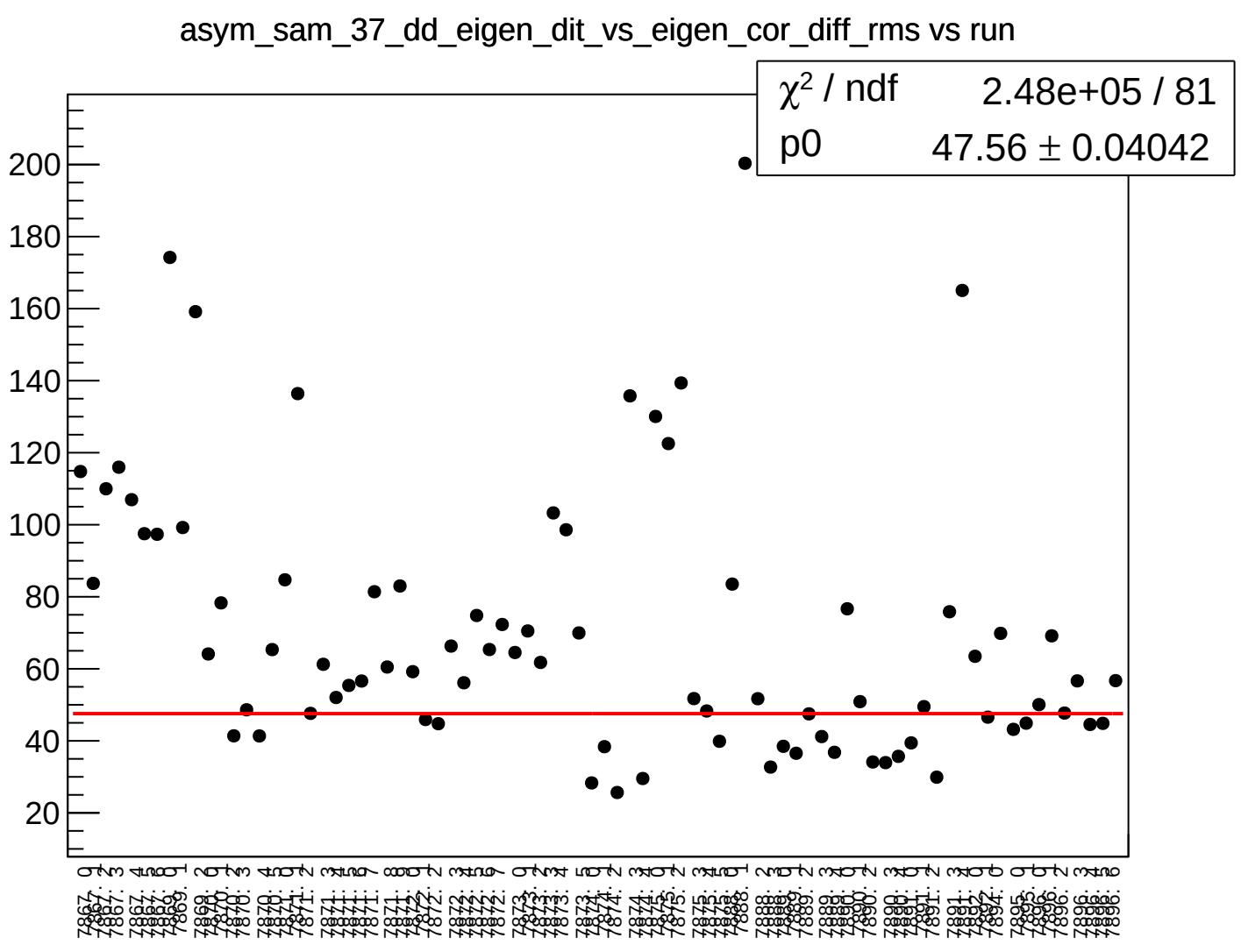

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.55 / 81
p0 −3.993e−06 ± 6.639e−06
pull
Entries 82
Mean −28.34
Std Dev 0
pull1D
Entries 82
Mean −0.01687
Std Dev 0.9339

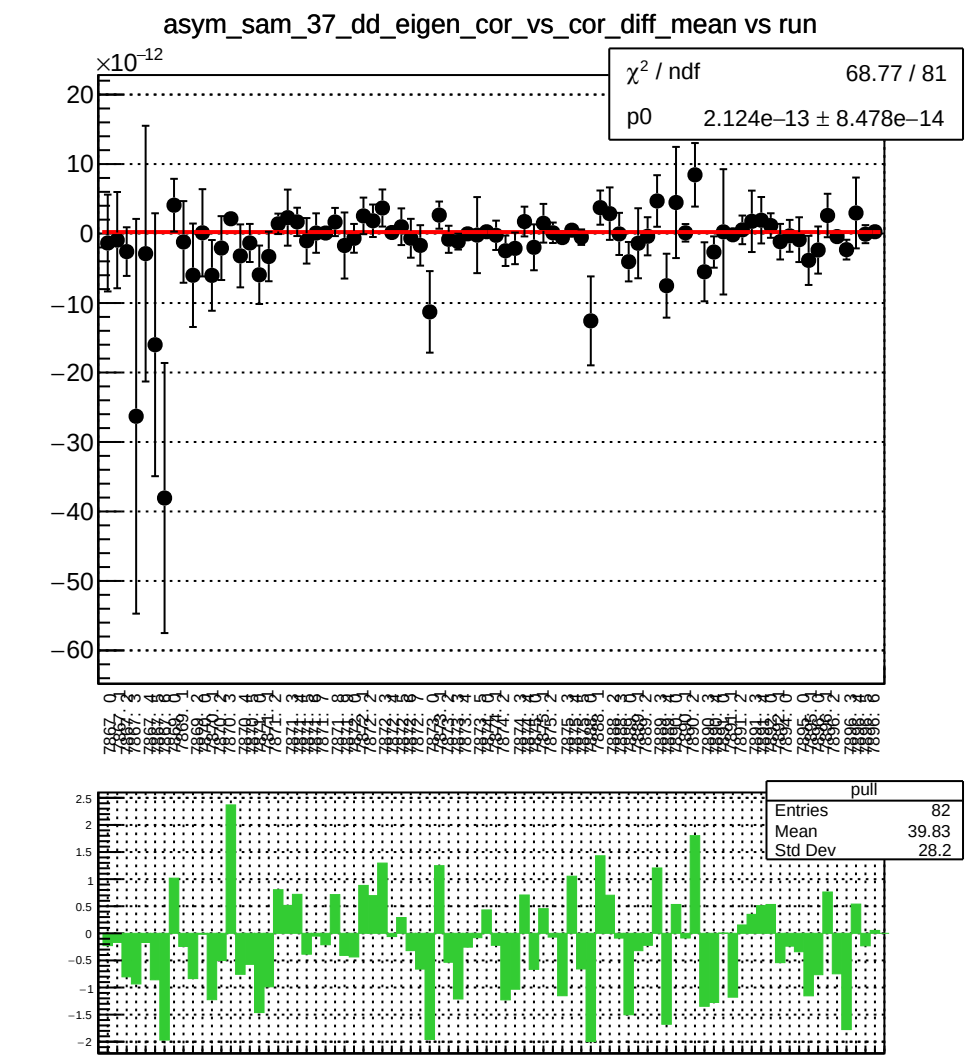

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.859e+04 / 81
p0 0.005926 ± 4.694e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

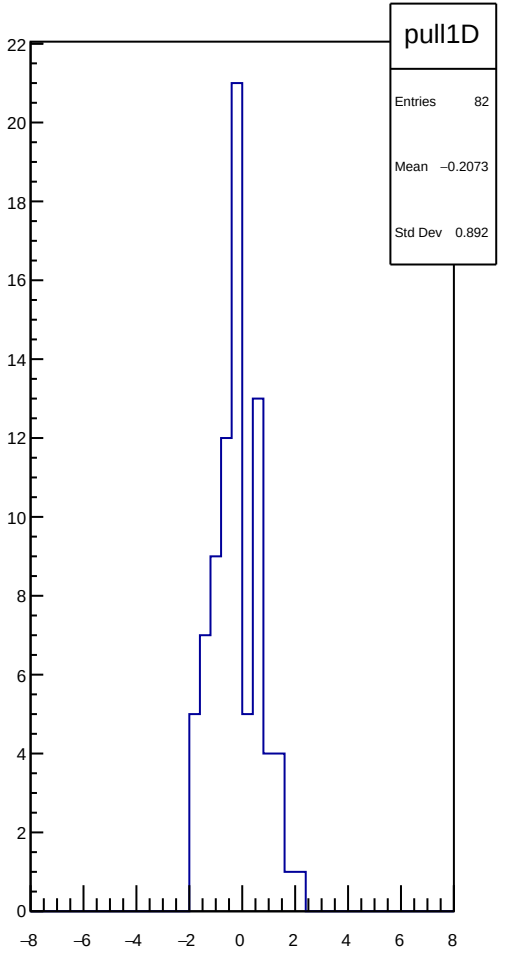

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.11 / 81
p0 0.04691 ± 0.05717
pull
Entries 82
Mean 651.4
Std Dev 0
pull1D
Entries 82
Mean −0.006254
Std Dev 0.9506

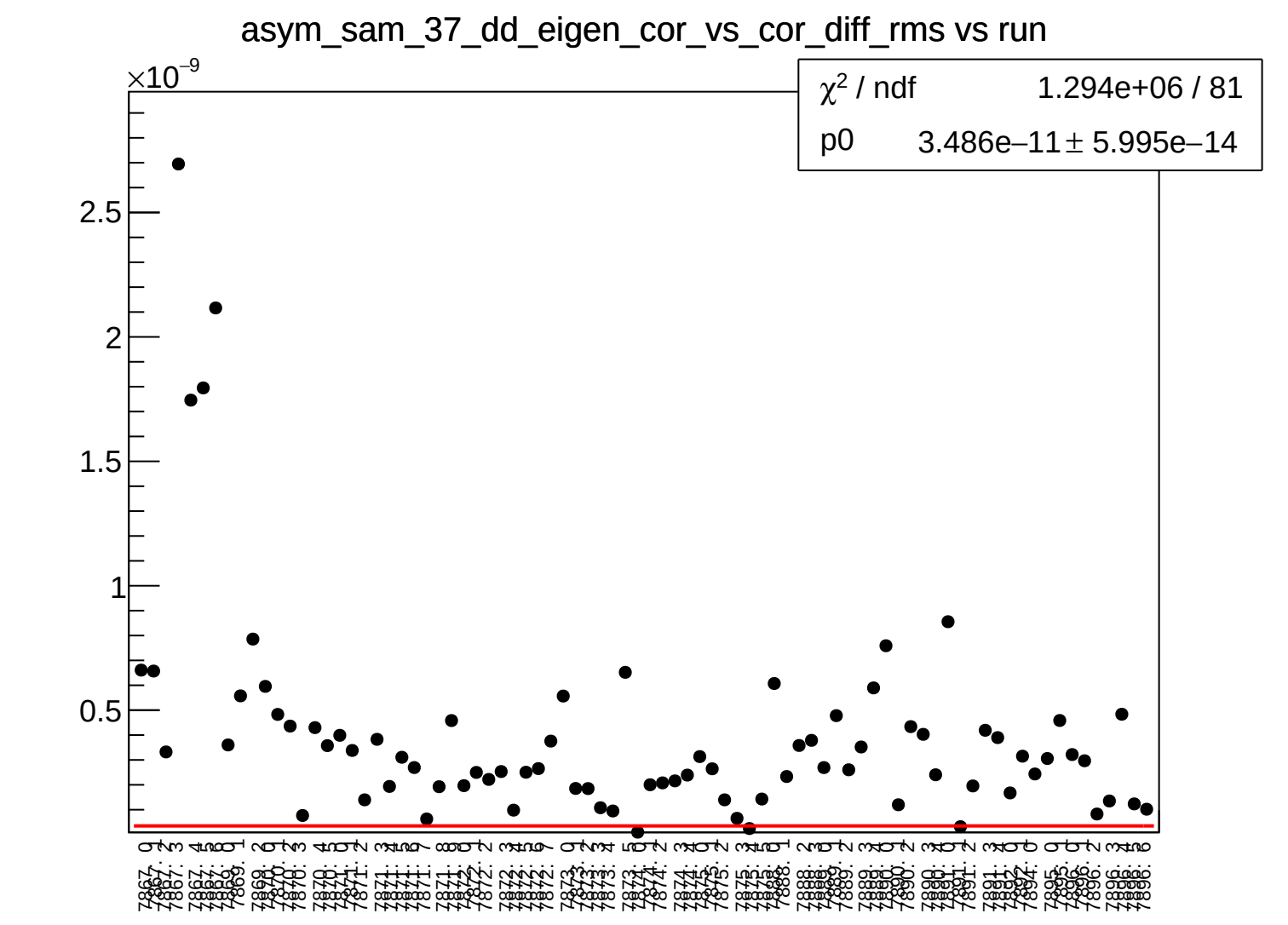

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 81
p0 47.56 ± 0.04042
200
180
160
140
120
100
80
60
40
20

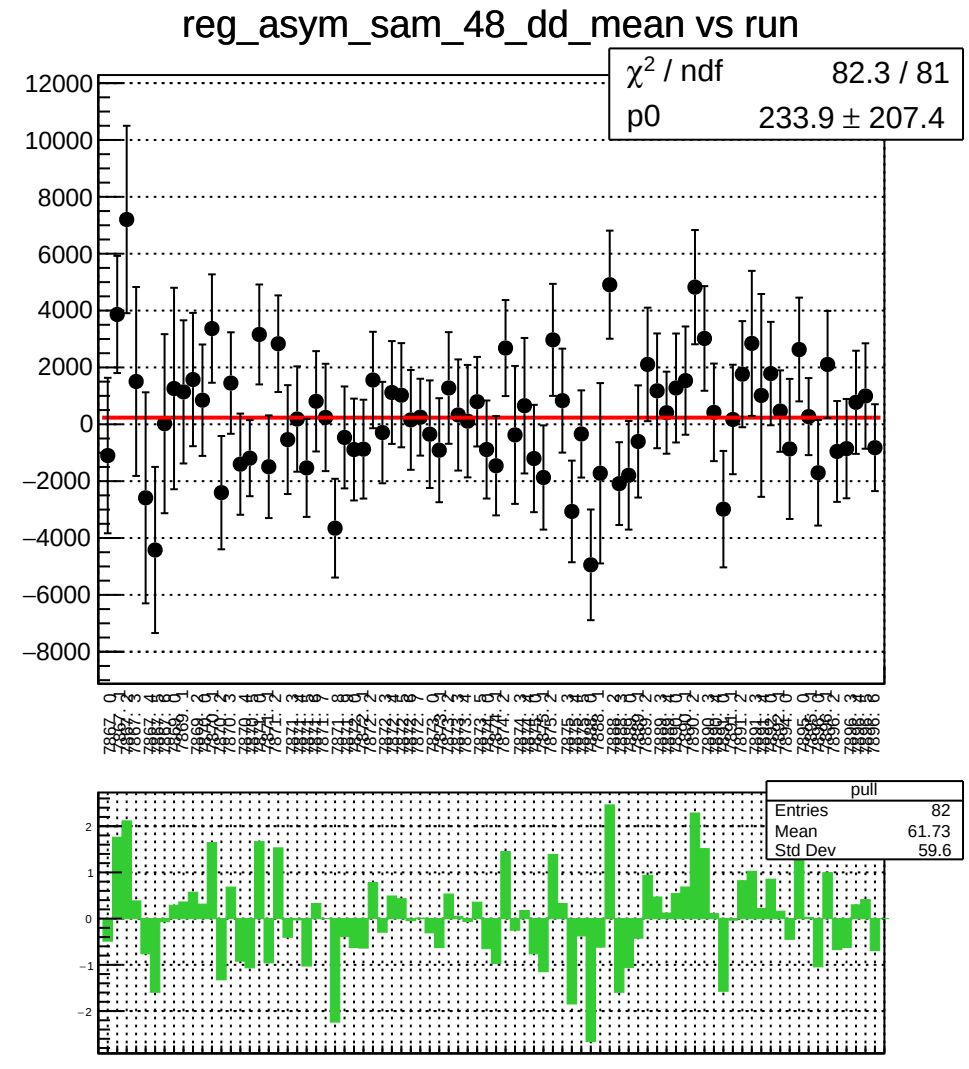

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.11 / 81
p0 0.04691 ± 0.05717
pull
Entries 82
Mean 651.4
Std Dev 0
pull1D
Entries 82
Mean −0.006254
Std Dev 0.9506

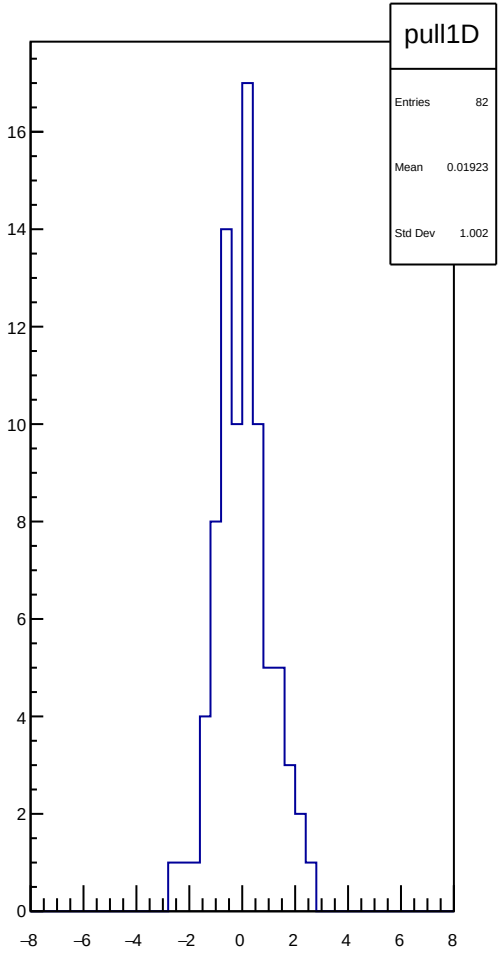

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 81
p0 47.56 ± 0.04042
200
180
160
140
120
100
80
60
40
20

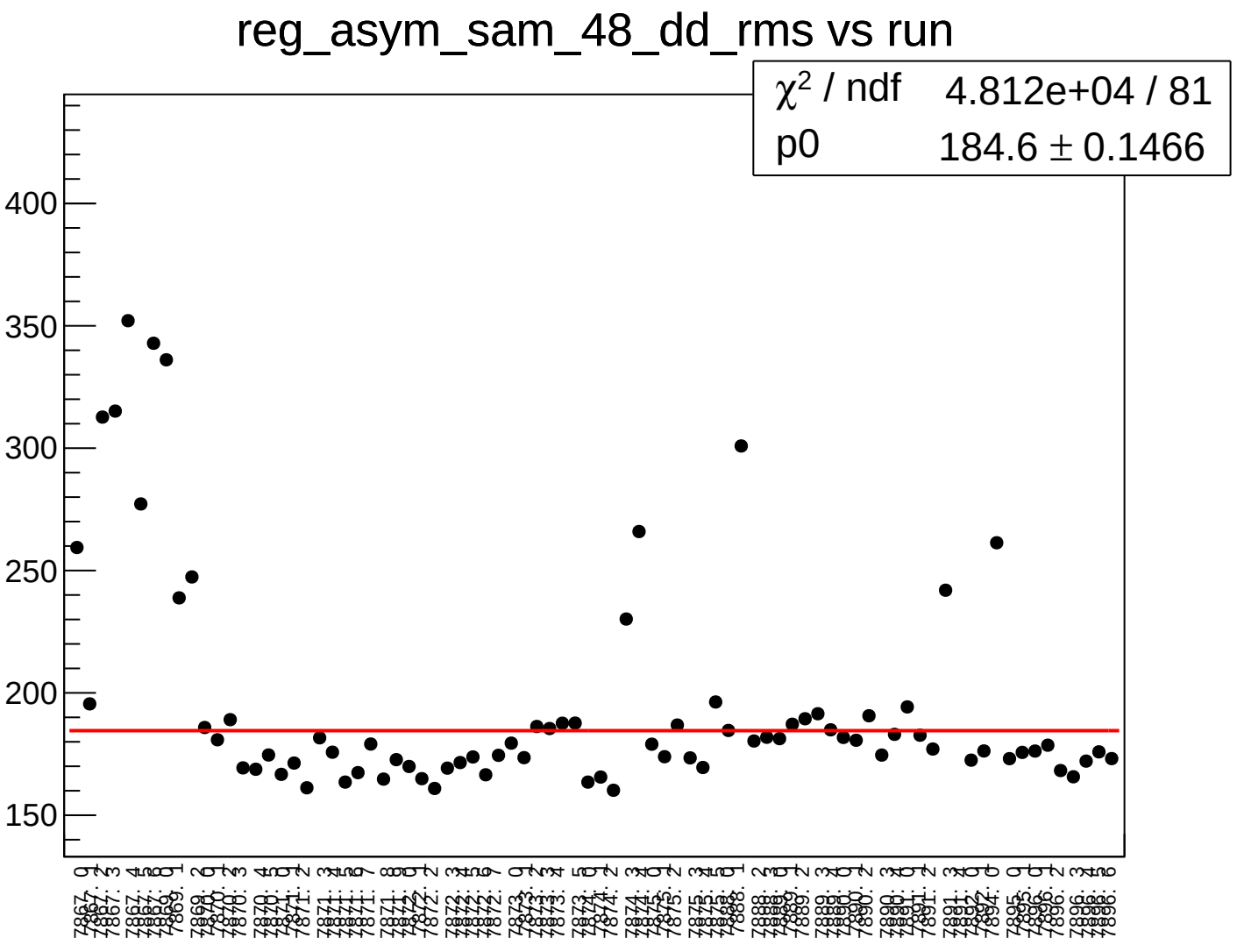

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.77 / 81
p0 2.124e−13 ± 8.478e−14
pull
Entries 82
Mean 39.83
Std Dev 28.2

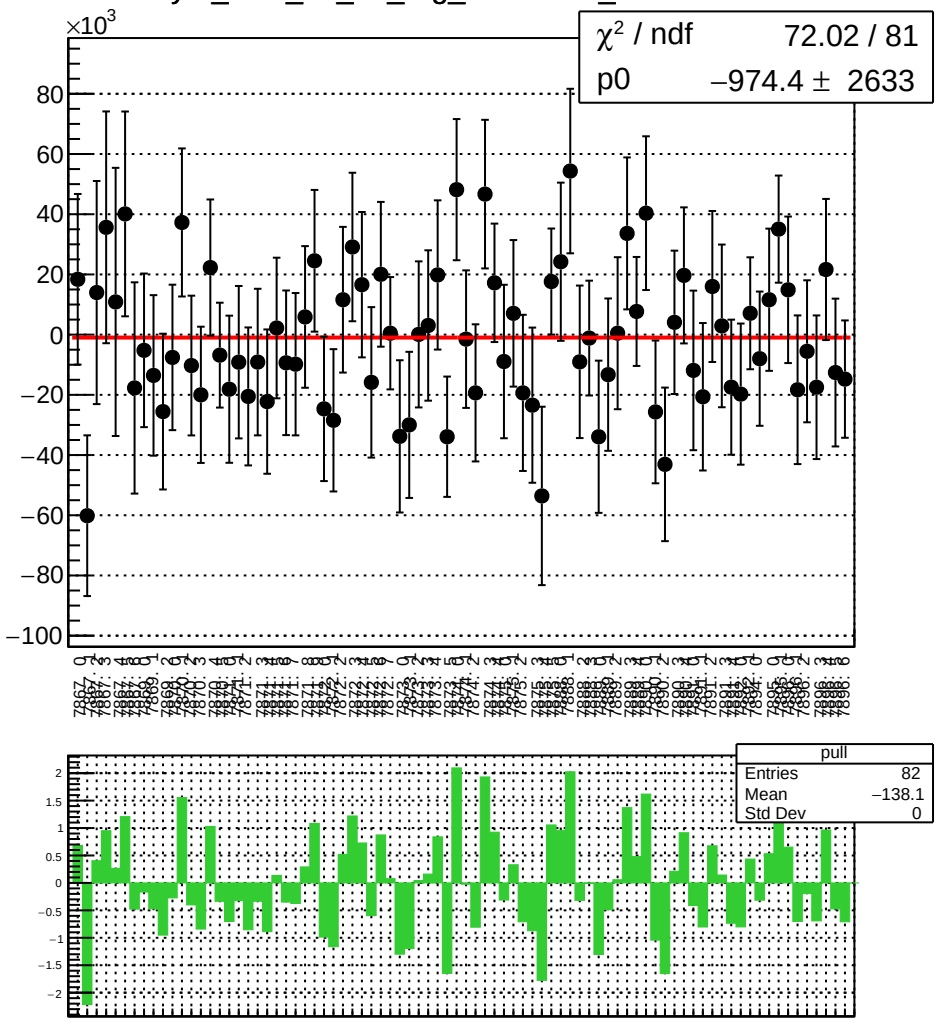

pull1D
Entries 82
Mean −0.2073
Std Dev 0.892

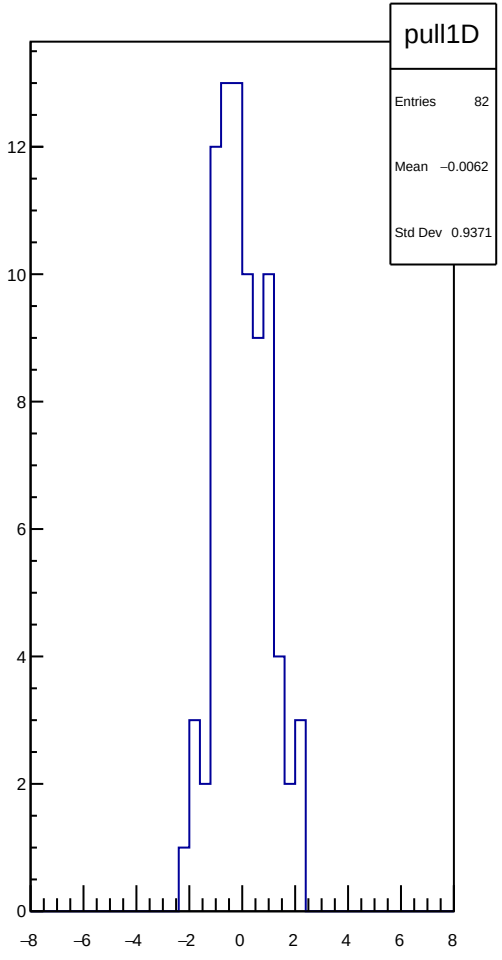

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.294e+06 / 81
p0 3.486e−11 ± 5.995e−14
2.5
2
1.5
1
0.5

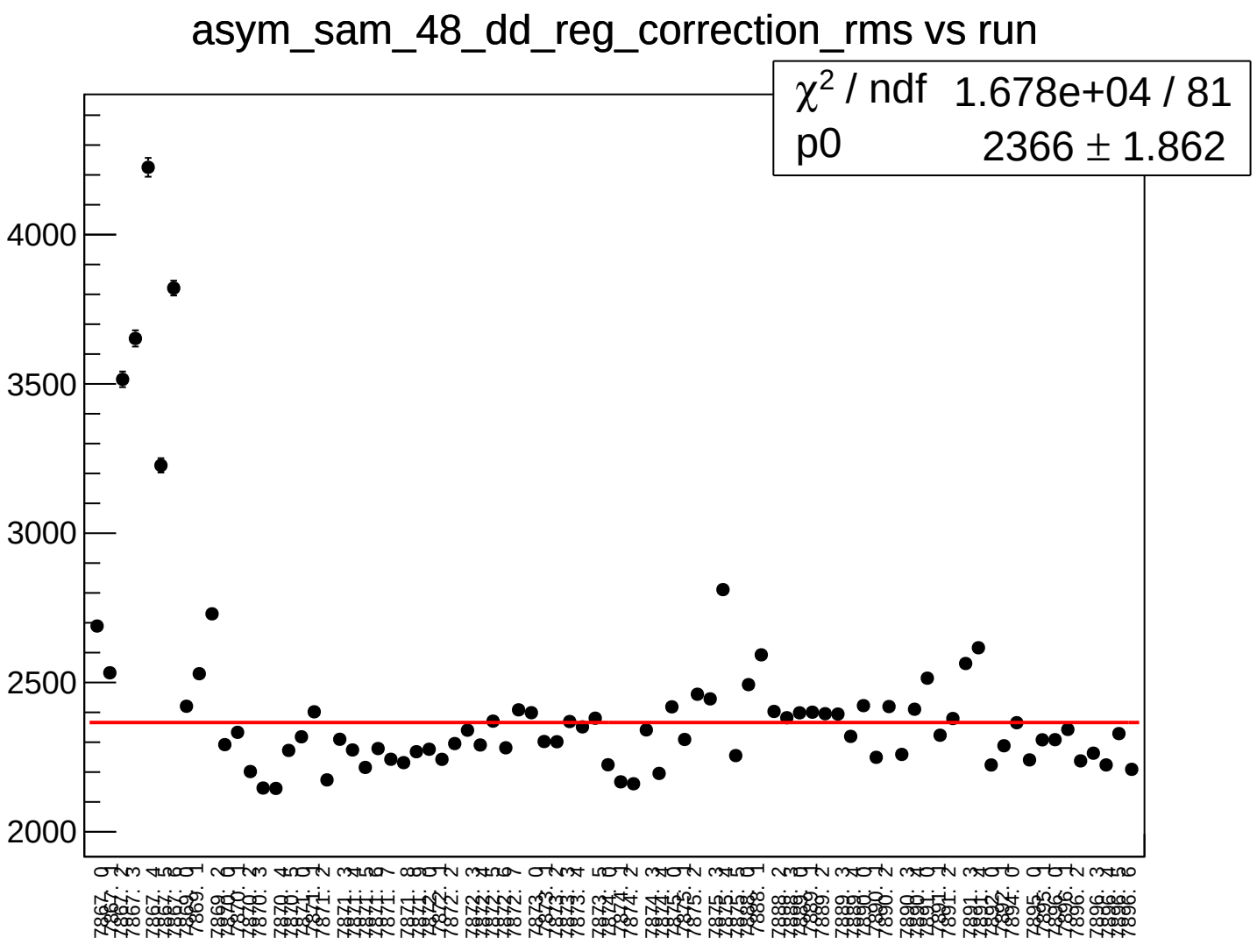

reg_asym_sam_48_dd_mean vs run
χ² / ndf 82.3 / 81
p0 233.9 ± 207.4
pull
Entries 82
Mean 61.73
Std Dev 59.6

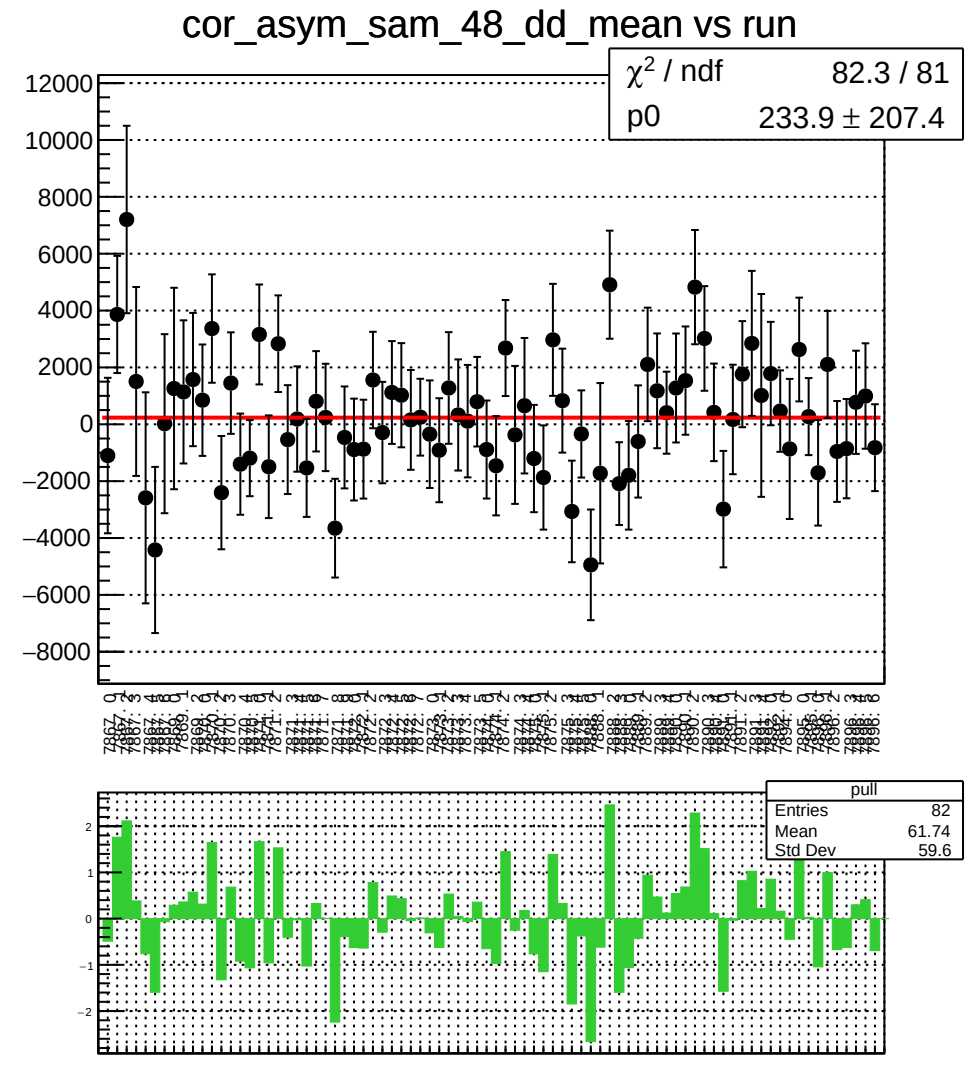

pull1D
Entries 82
Mean 0.01923
Std Dev 1.002

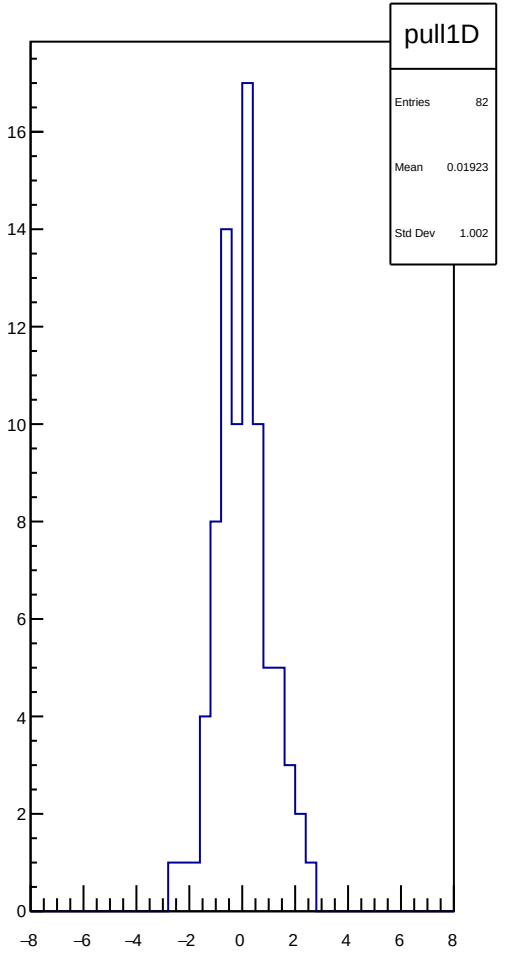

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4.812e+04 / 81
p0 184.6 ± 0.1466
400
350
300
250
200
150

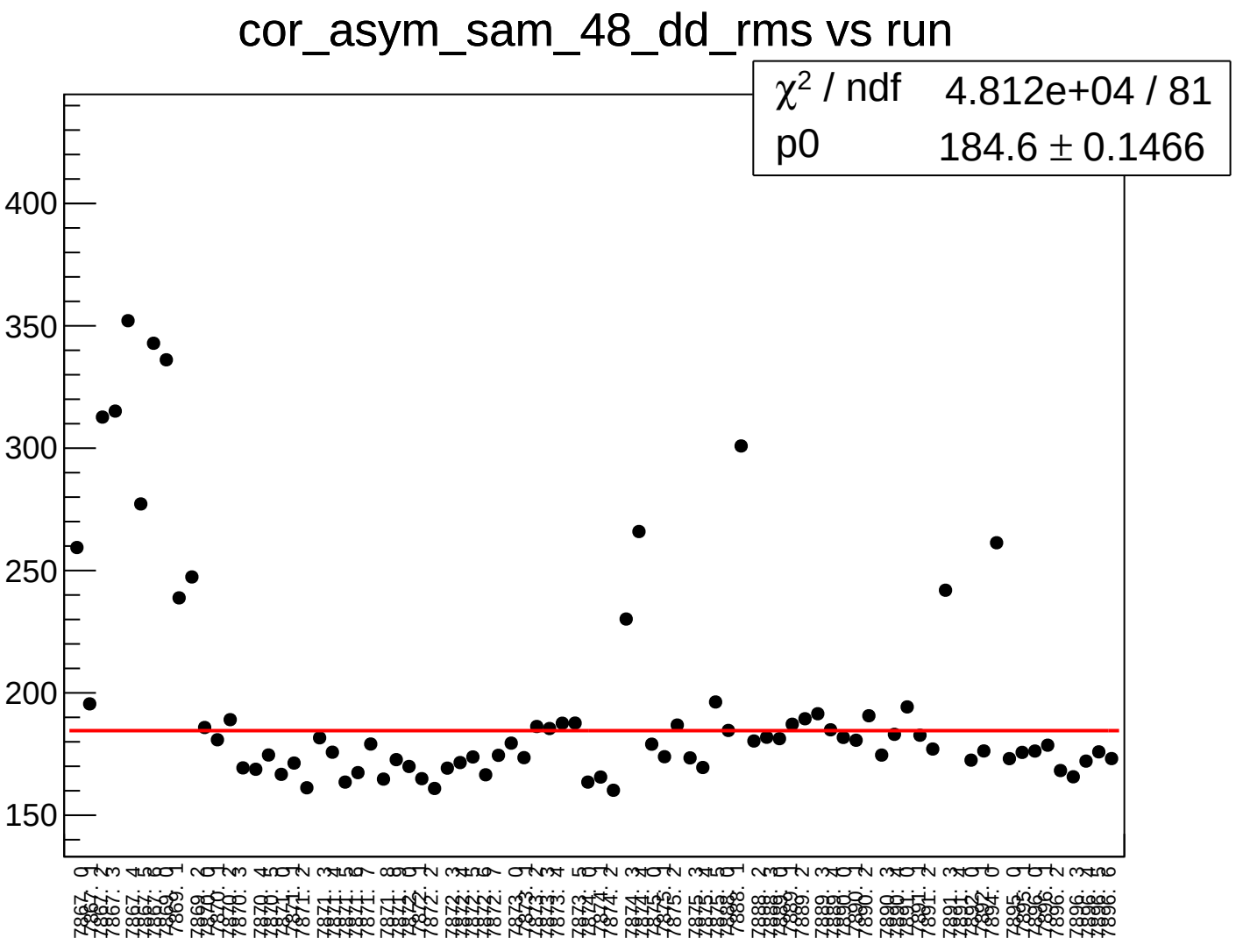

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 72.02 / 81
p0 −974.4 ± 2633
pull
Entries 82
Mean −138.1
Std Dev 0

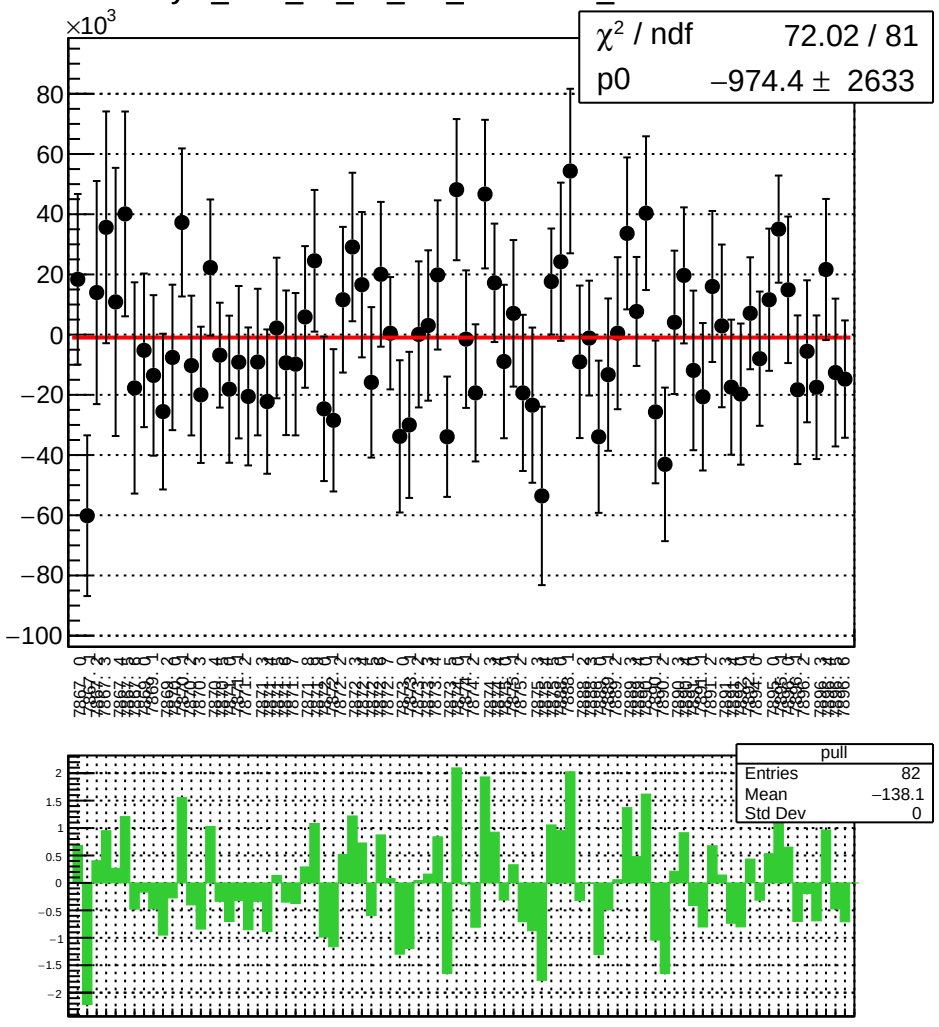

pull1D
Entries 82
Mean −0.0062
Std Dev 0.9371

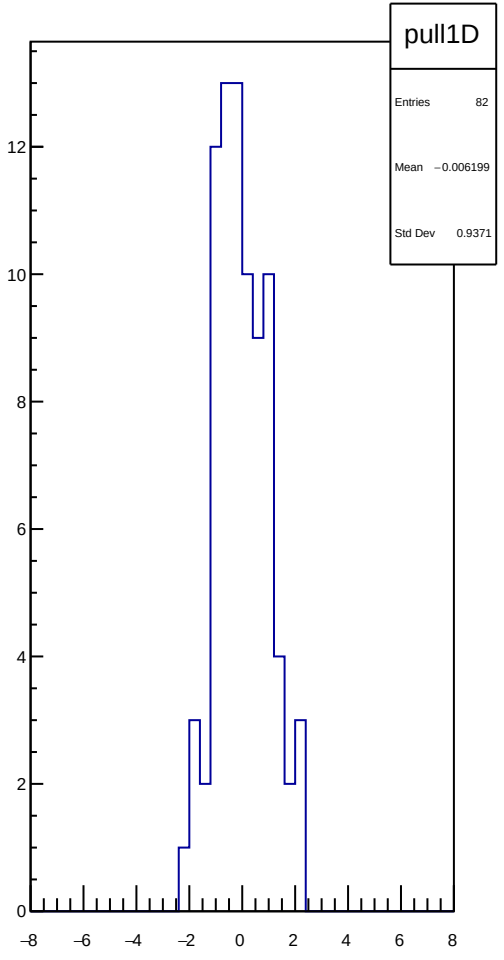

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.678e+04 / 81
p0 2366 ± 1.862
4000
3500
3000
2500
2000

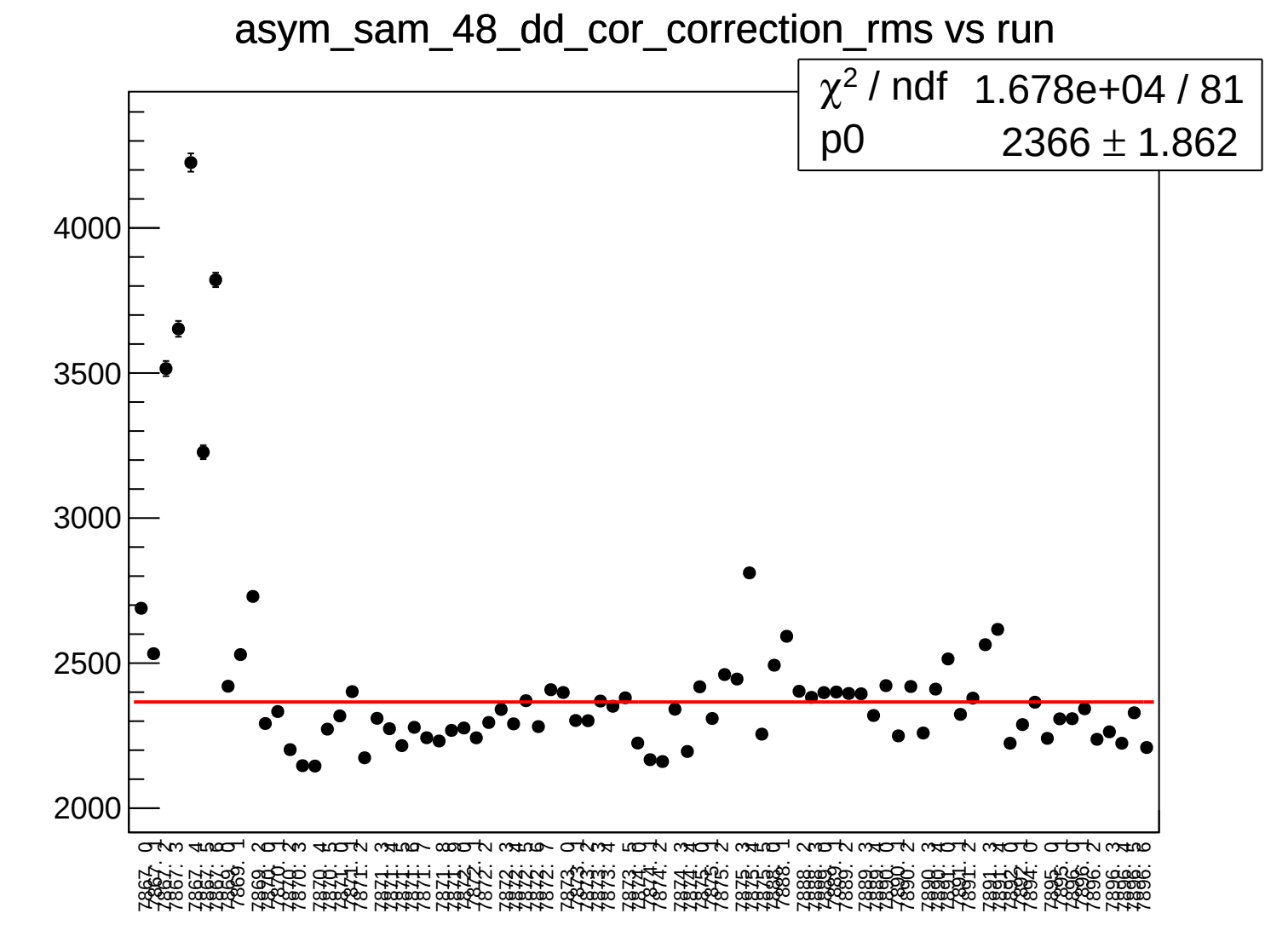

cor_asym_sam_48_dd_mean vs run
χ² / ndf 82.3 / 81
p0 233.9 ± 207.4
pull
Entries 82
Mean 61.74
Std Dev 59.6

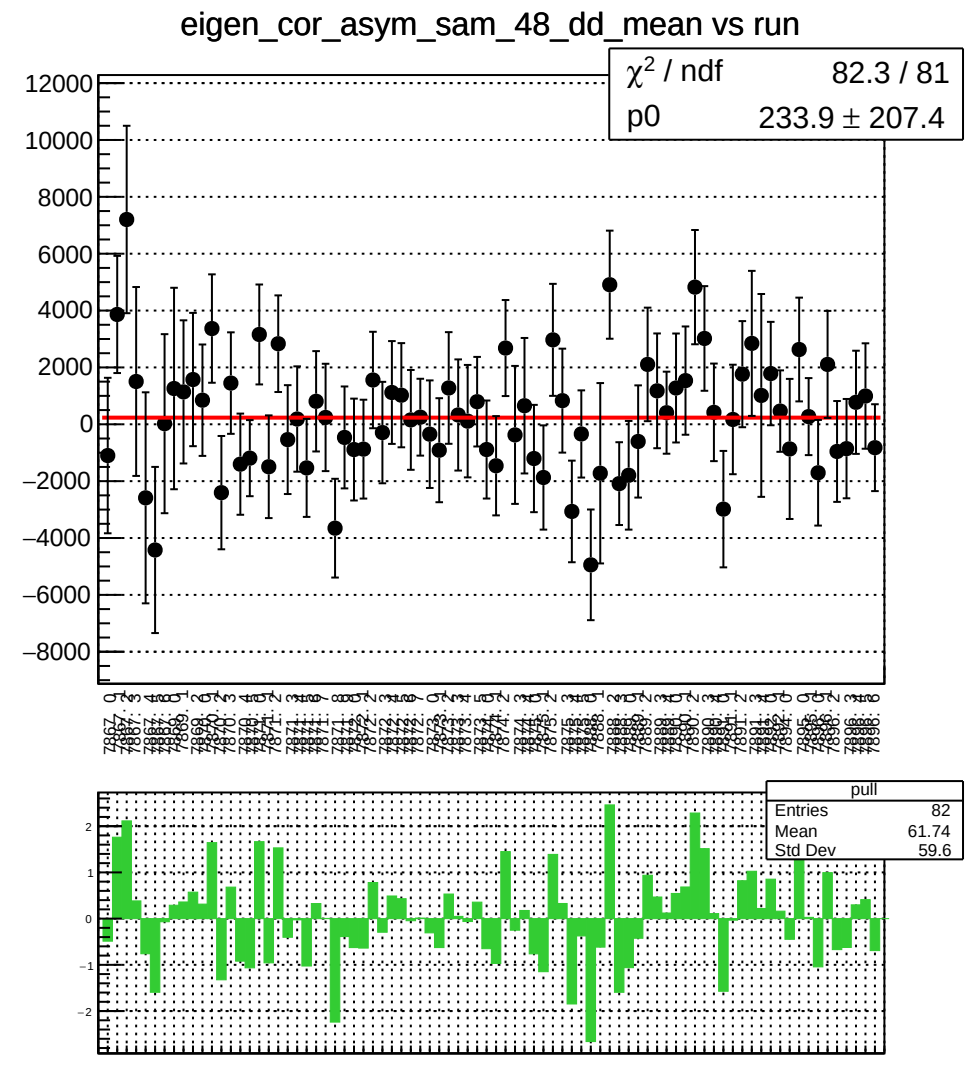

pull1D
Entries 82
Mean 0.01923
Std Dev 1.002

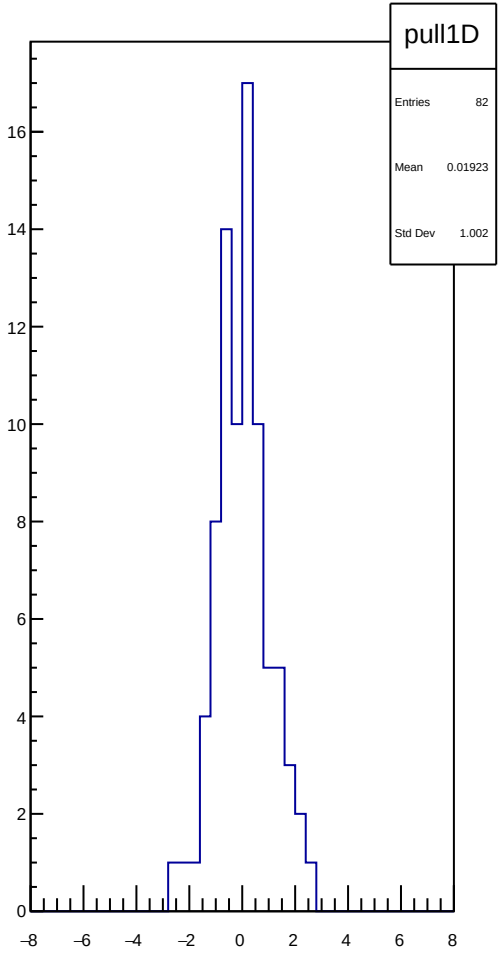

cor_asym_sam_48_dd_rms vs run
χ² / ndf 4.812e+04 / 81
p0 184.6 ± 0.1466
400
350
300
250
200
150

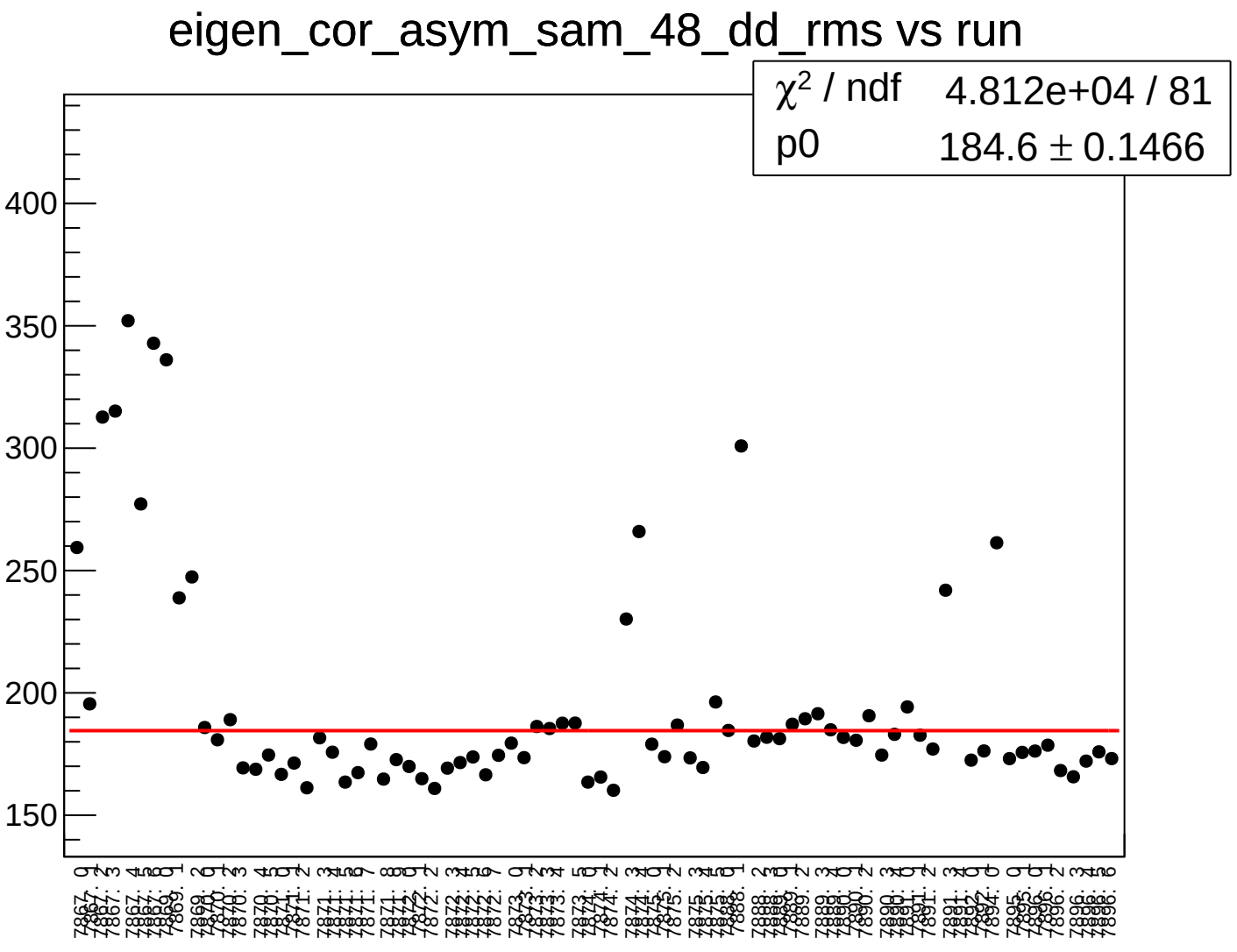

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 72.02 / 81
p0 −974.4 ± 2633
pull
Entries 82
Mean −138.1
Std Dev 0

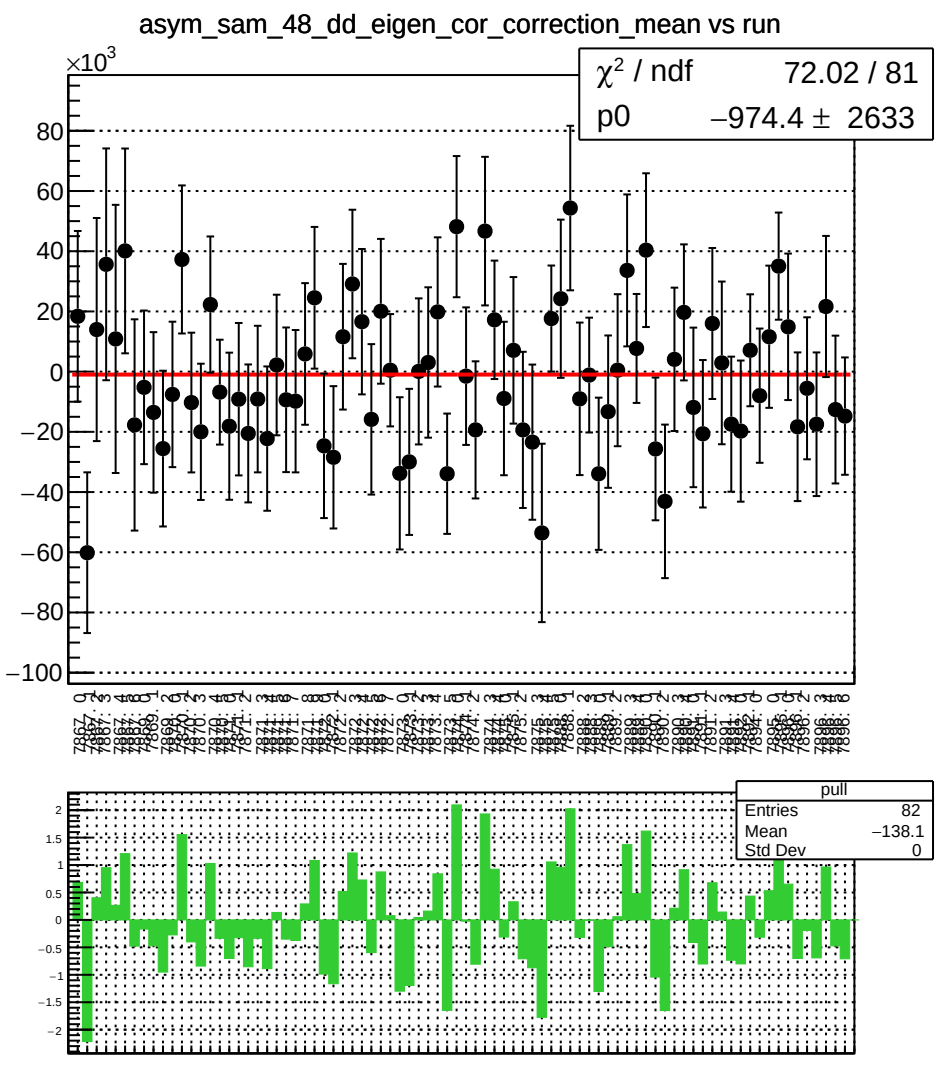

pull1D
Entries 82
Mean −0.006199
Std Dev 0.9371

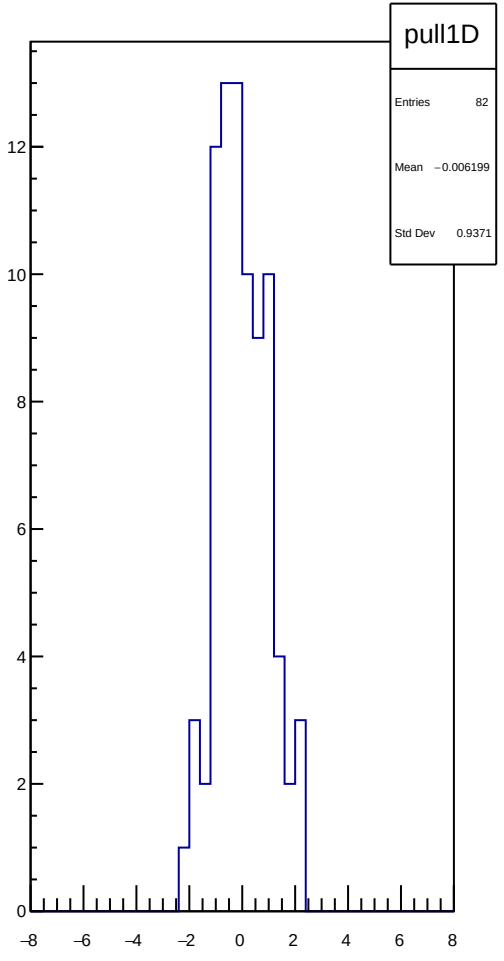

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.678e+04 / 81
p0 2366 ± 1.862
4000
3500
3000
2500
2000

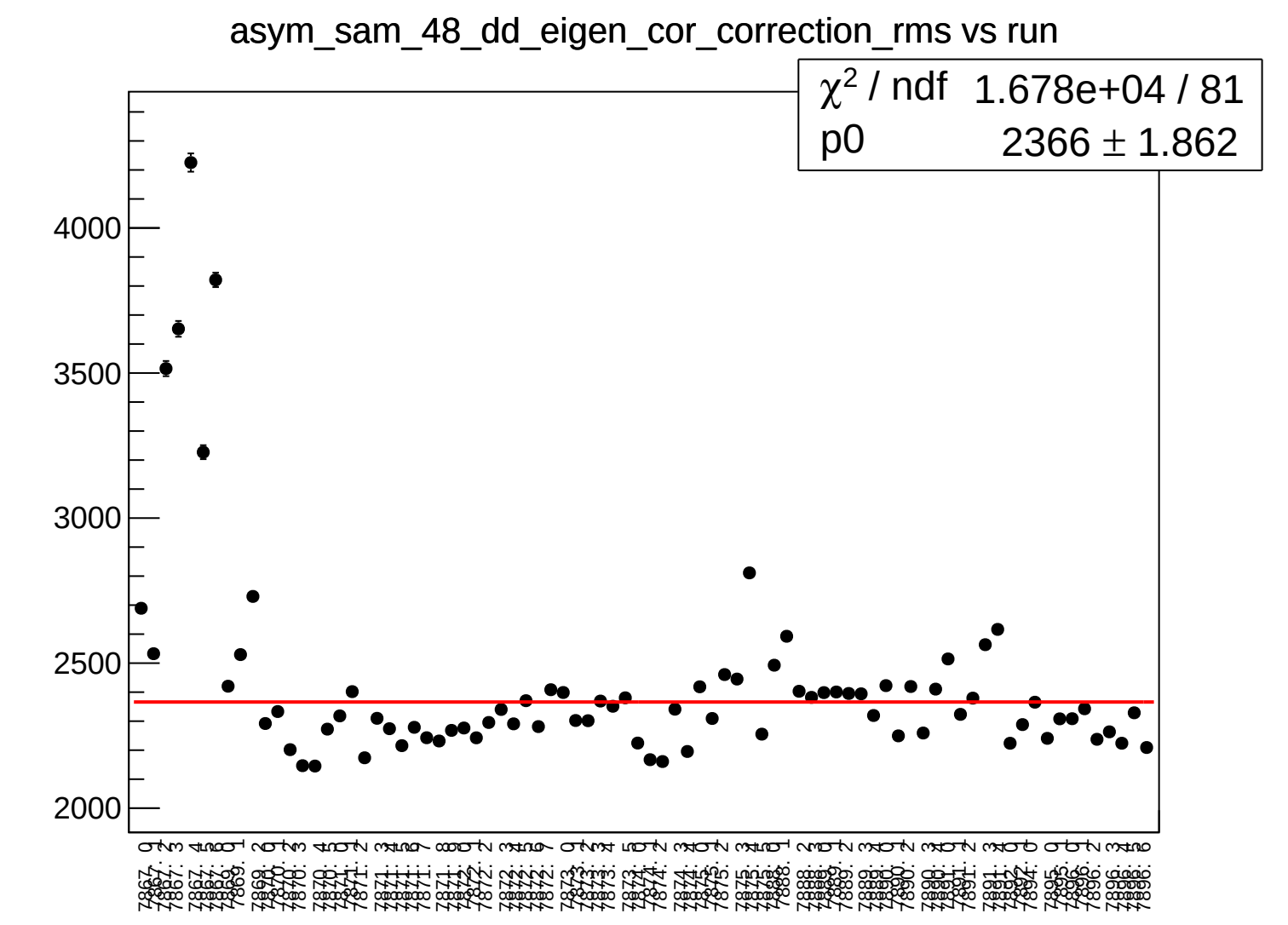

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 82.3 / 81
p0 233.9 ± 207.4
pull
Entries 82
Mean 61.74
Std Dev 59.6

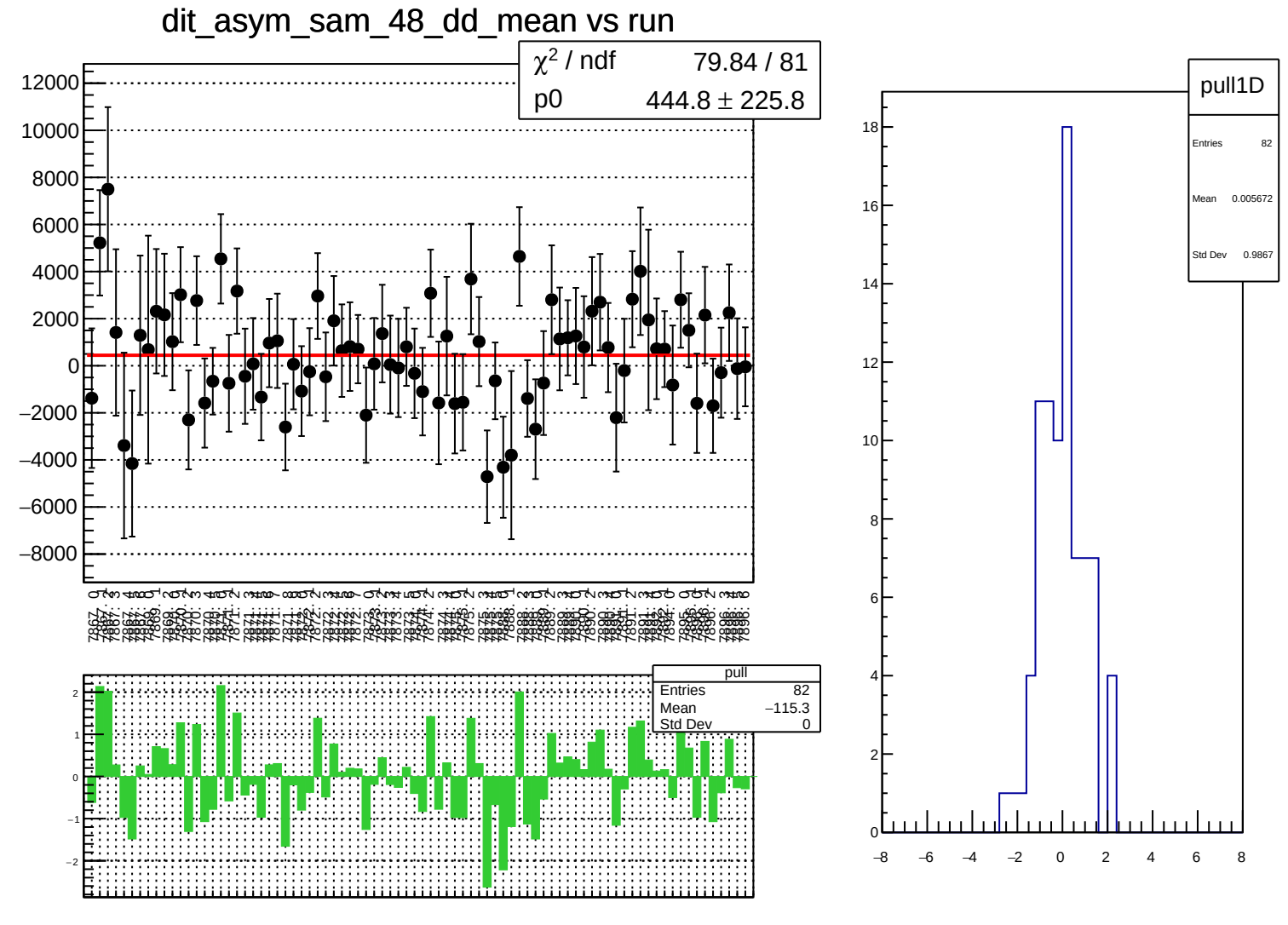

pull1D
Entries 82
Mean 0.01923
Std Dev 1.002

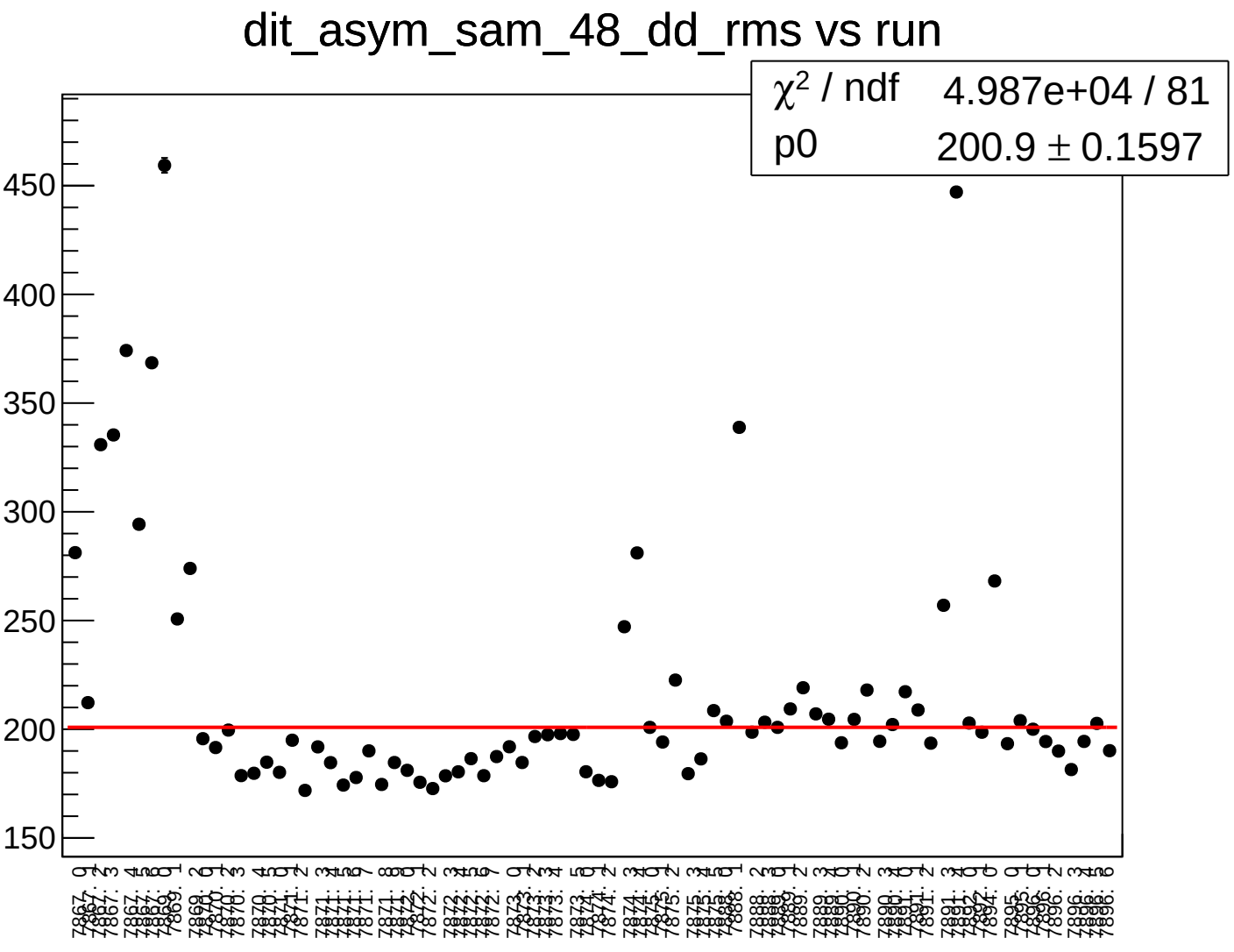

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 4.812e+04 / 81
p0 184.6 ± 0.1466
400
350
300
250
200
150

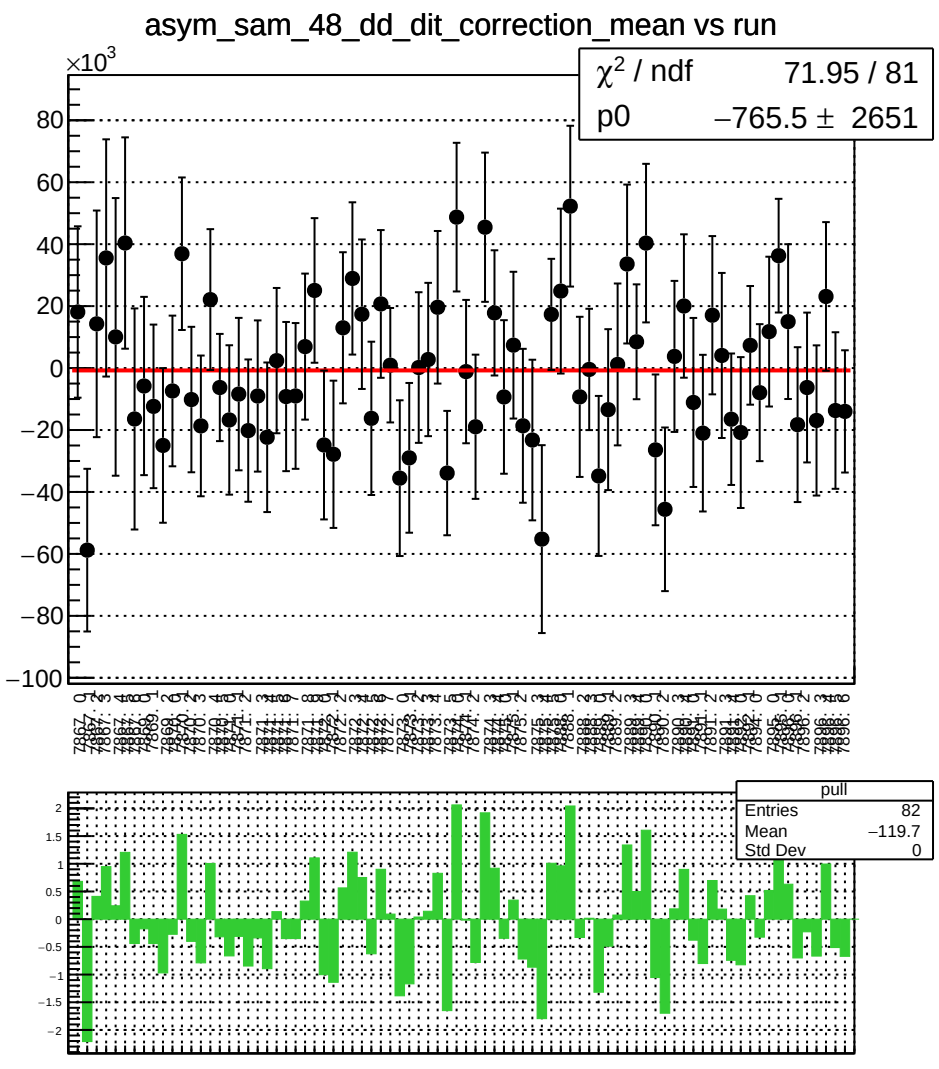

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.02 / 81
p0 −974.4 ± 2633
pull
Entries 82
Mean −138.1
Std Dev 0

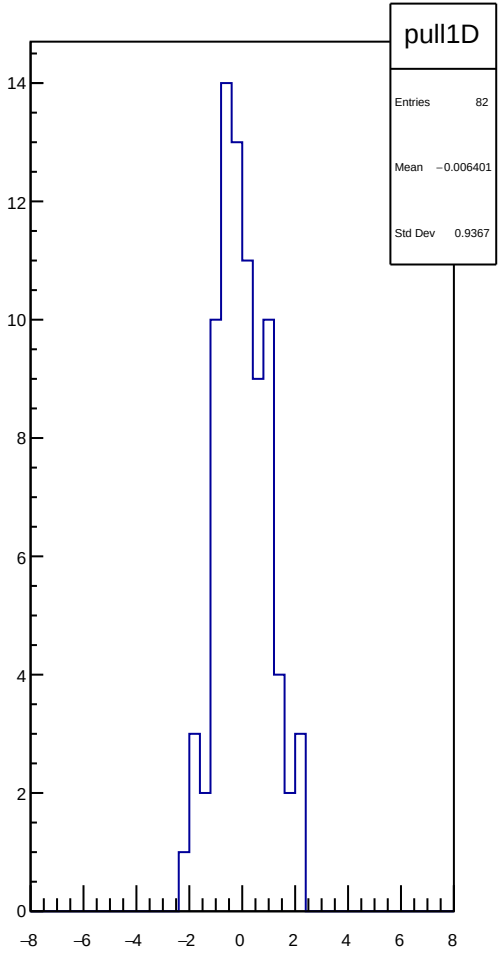

pull1D
Entries 82
Mean −0.006199
Std Dev 0.9371

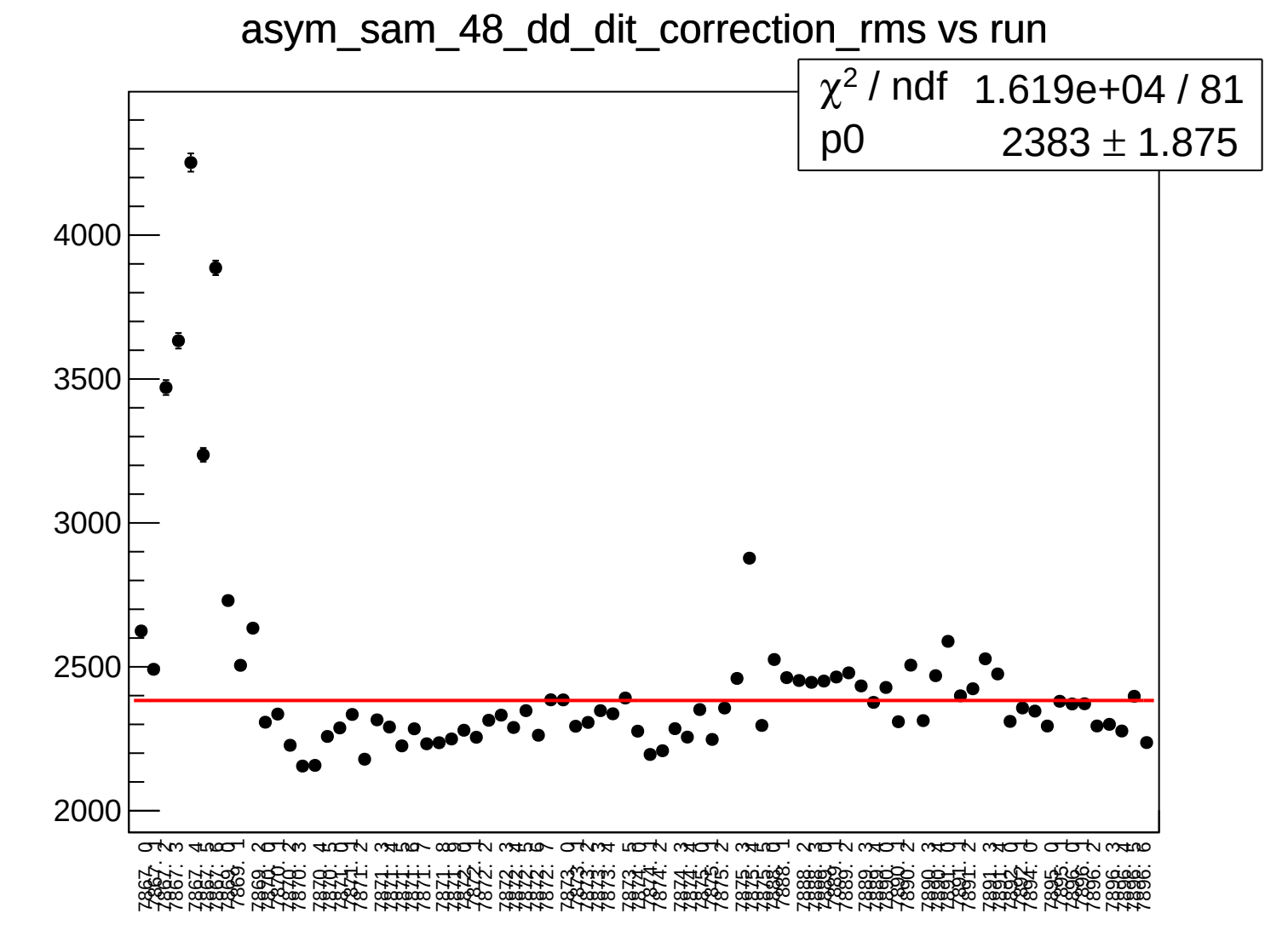

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.678e+04 / 81
p0 2366 ± 1.862
4000
3500
3000
2500
2000

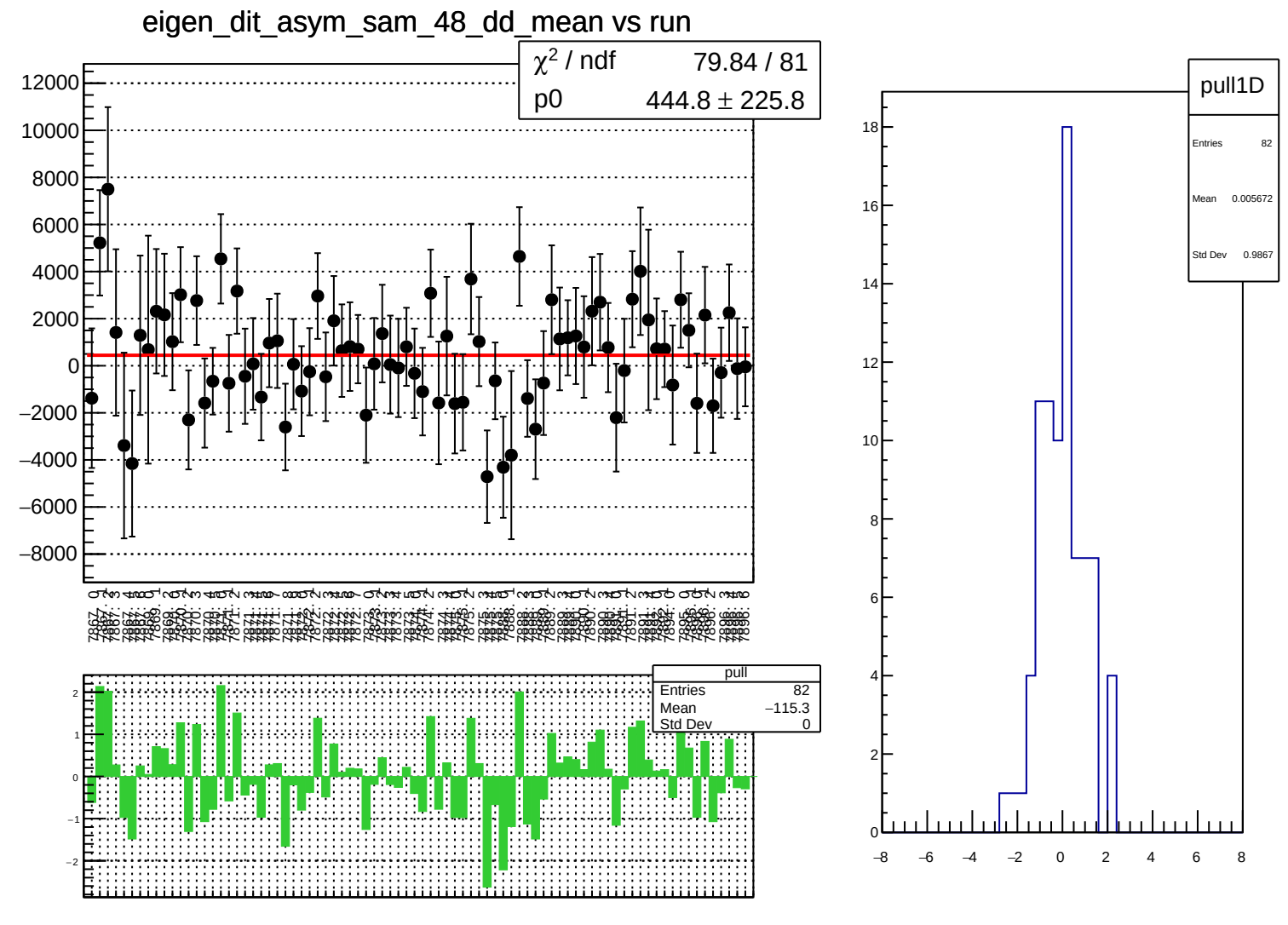

dit_asym_sam_48_dd_mean vs run
χ² / ndf 79.84 / 81
p0 444.8 ± 225.8
pull
Entries 82
Mean −115.3
Std Dev 0
pull1D
Entries 82
Mean 0.005672
Std Dev 0.9867

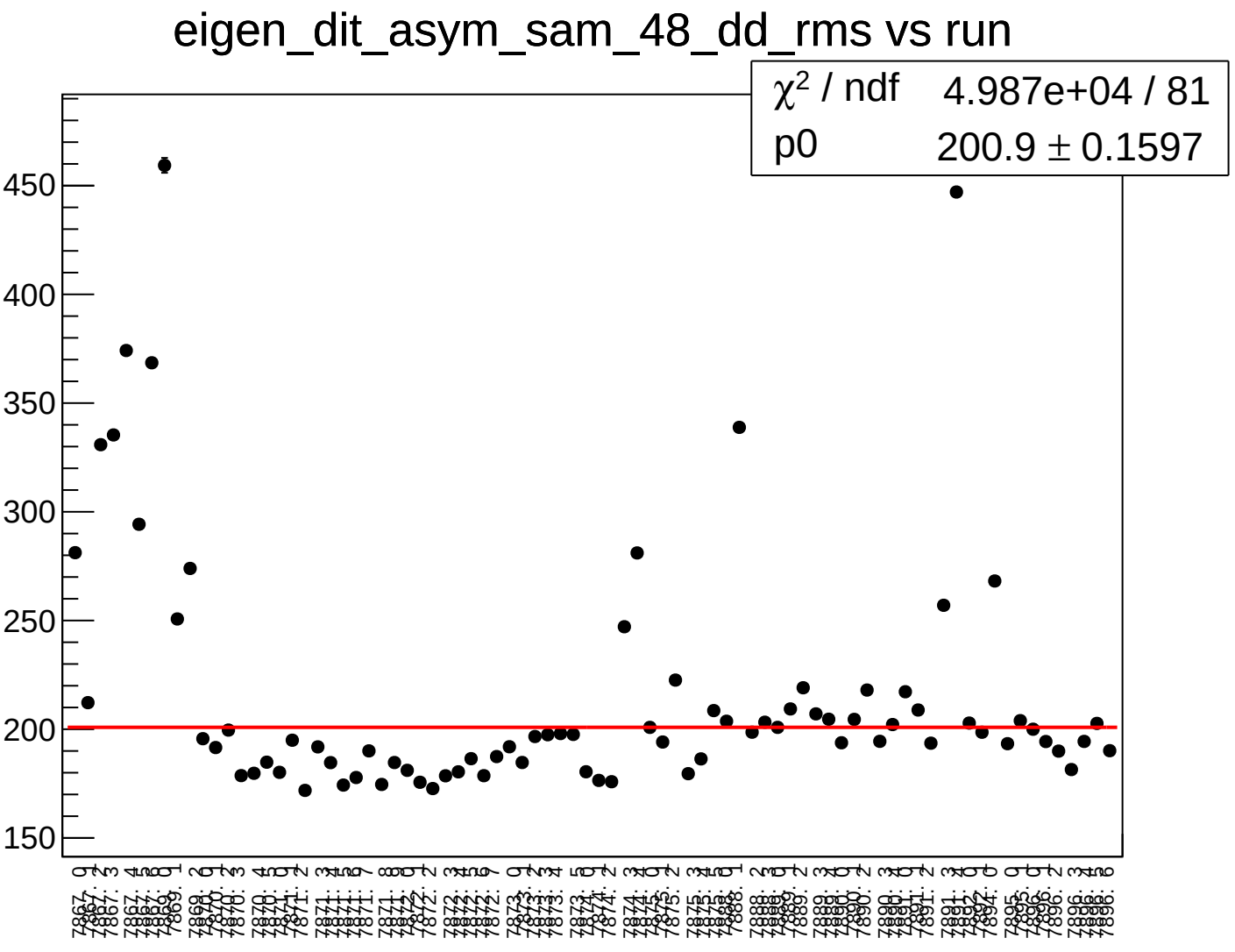

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.987e+04 / 81
p0 200.9 ± 0.1597
450
400
350
300
250
200
150

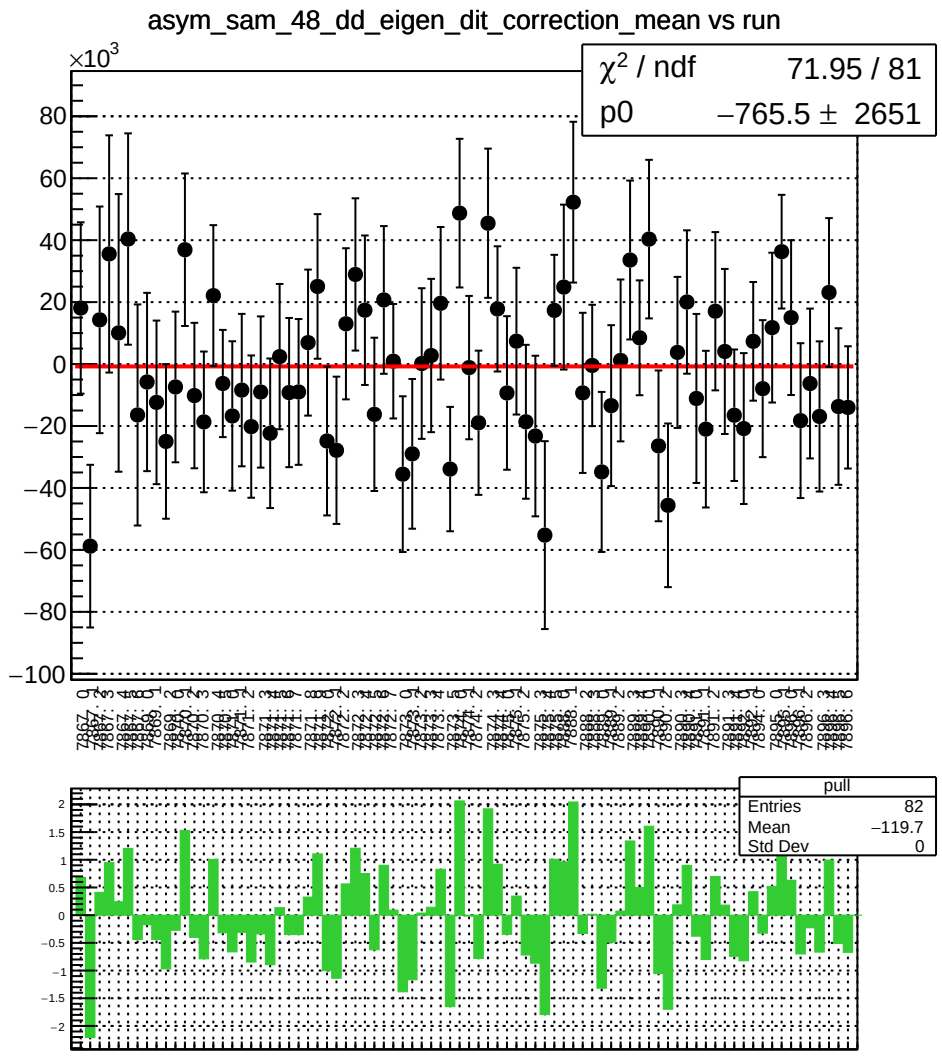

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 71.95 / 81
p0 −765.5 ± 2651
pull
Entries 82
Mean −119.7
Std Dev 0

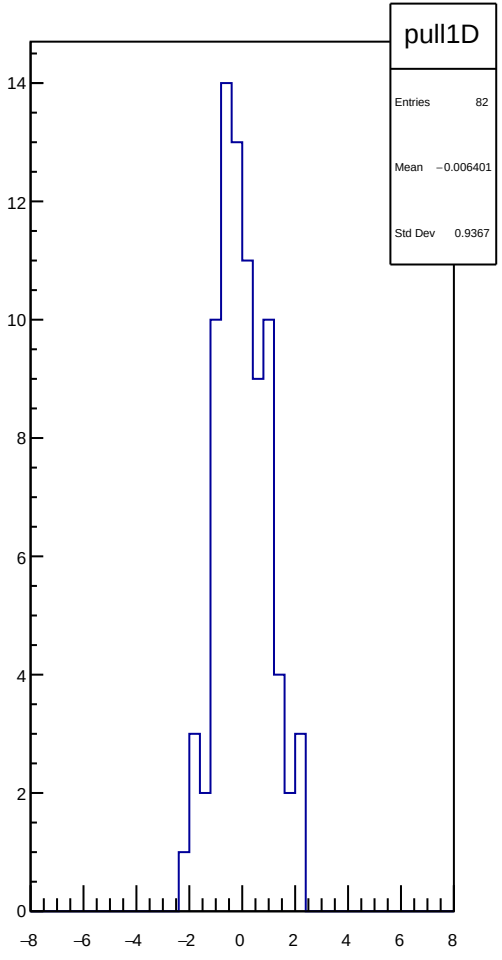

pull1D
Entries 82
Mean −0.006401
Std Dev 0.9367

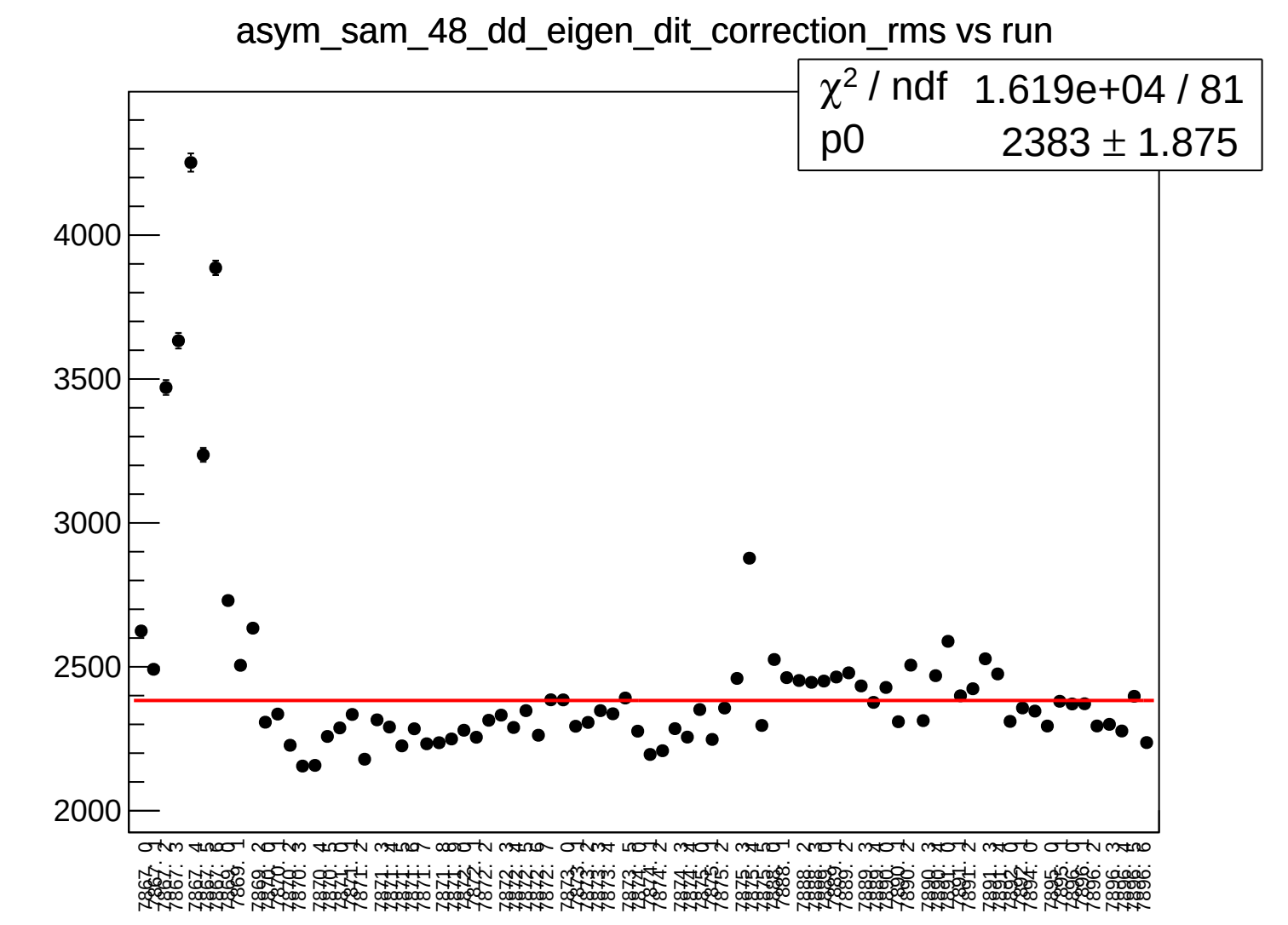

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.619e+04 / 81
p0 2383 ± 1.875
4000
3500
3000
2500
2000

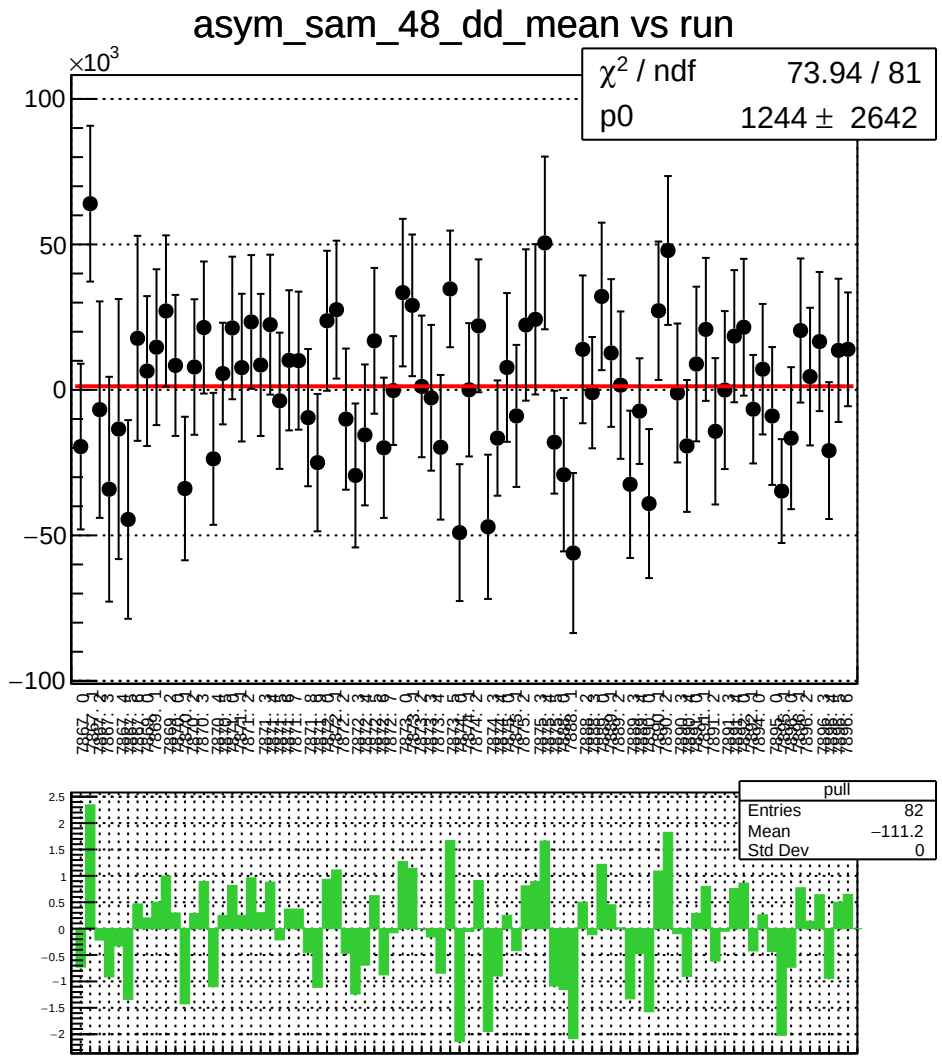

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 79.84 / 81
p0 444.8 ± 225.8
pull
Entries 82
Mean −115.3
Std Dev 0
pull1D
Entries 82
Mean 0.005672
Std Dev 0.9867

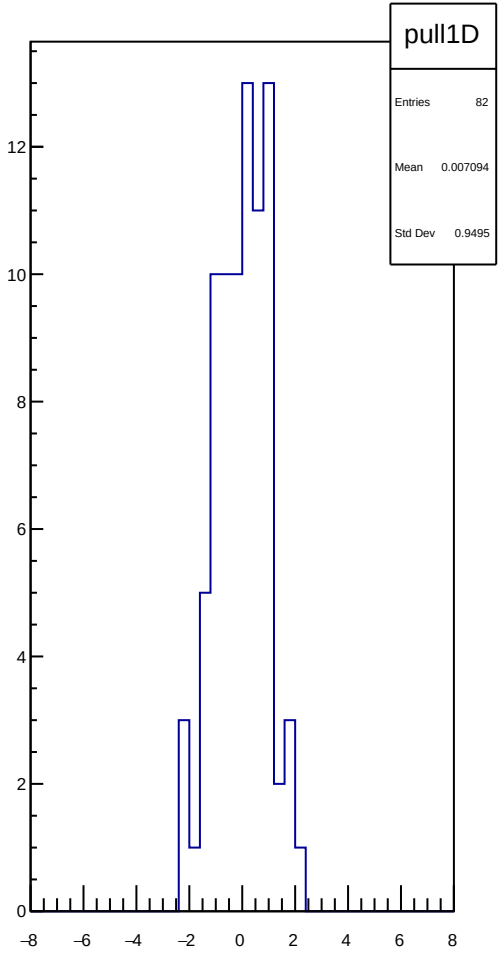

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.987e+04 / 81
p0 200.9 ± 0.1597
450
400
350
300
250
200
150

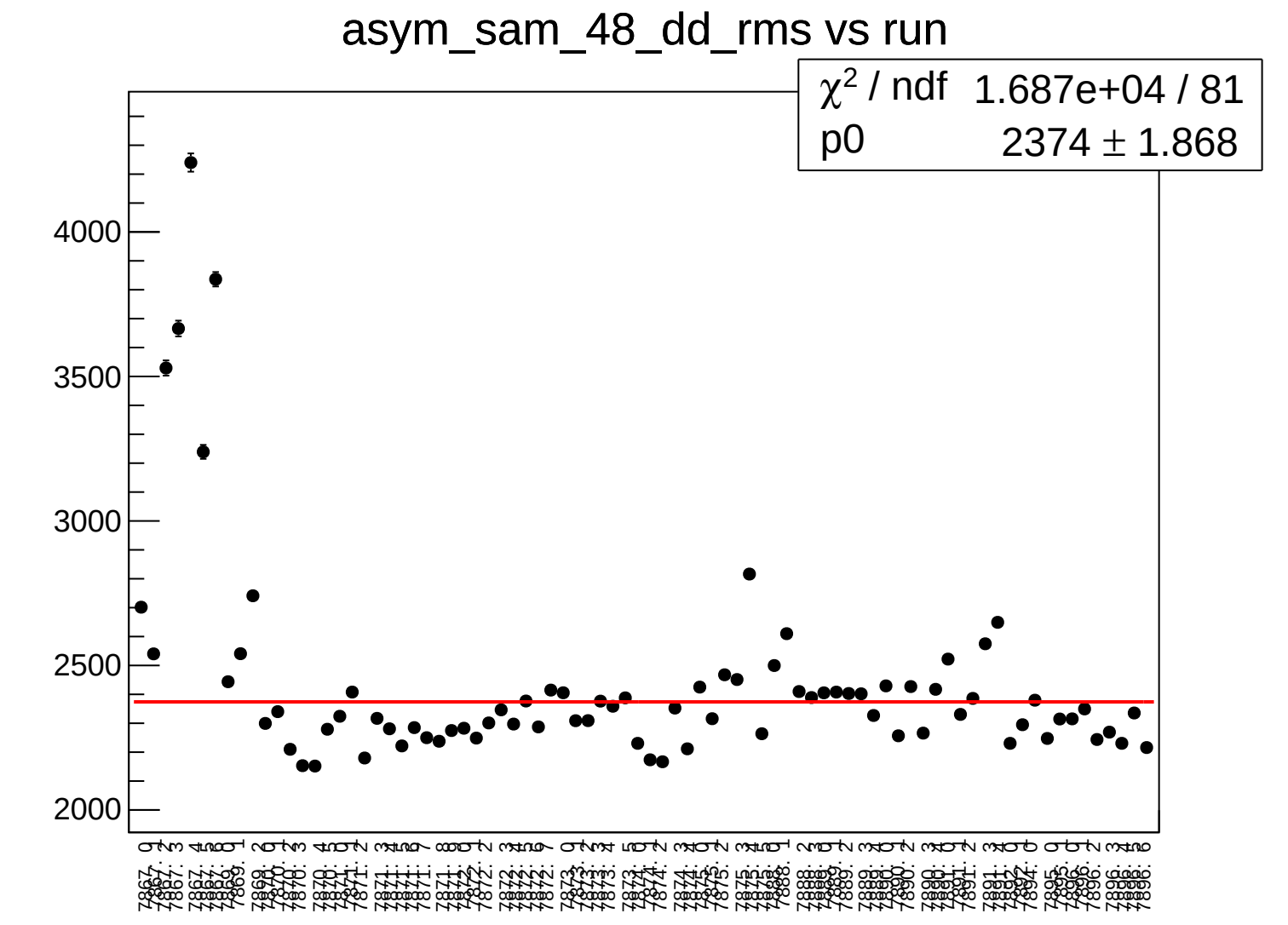

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.95 / 81
p0 −765.5 ± 2651
×10³
pull
Entries 82
Mean −119.7
Std Dev 0

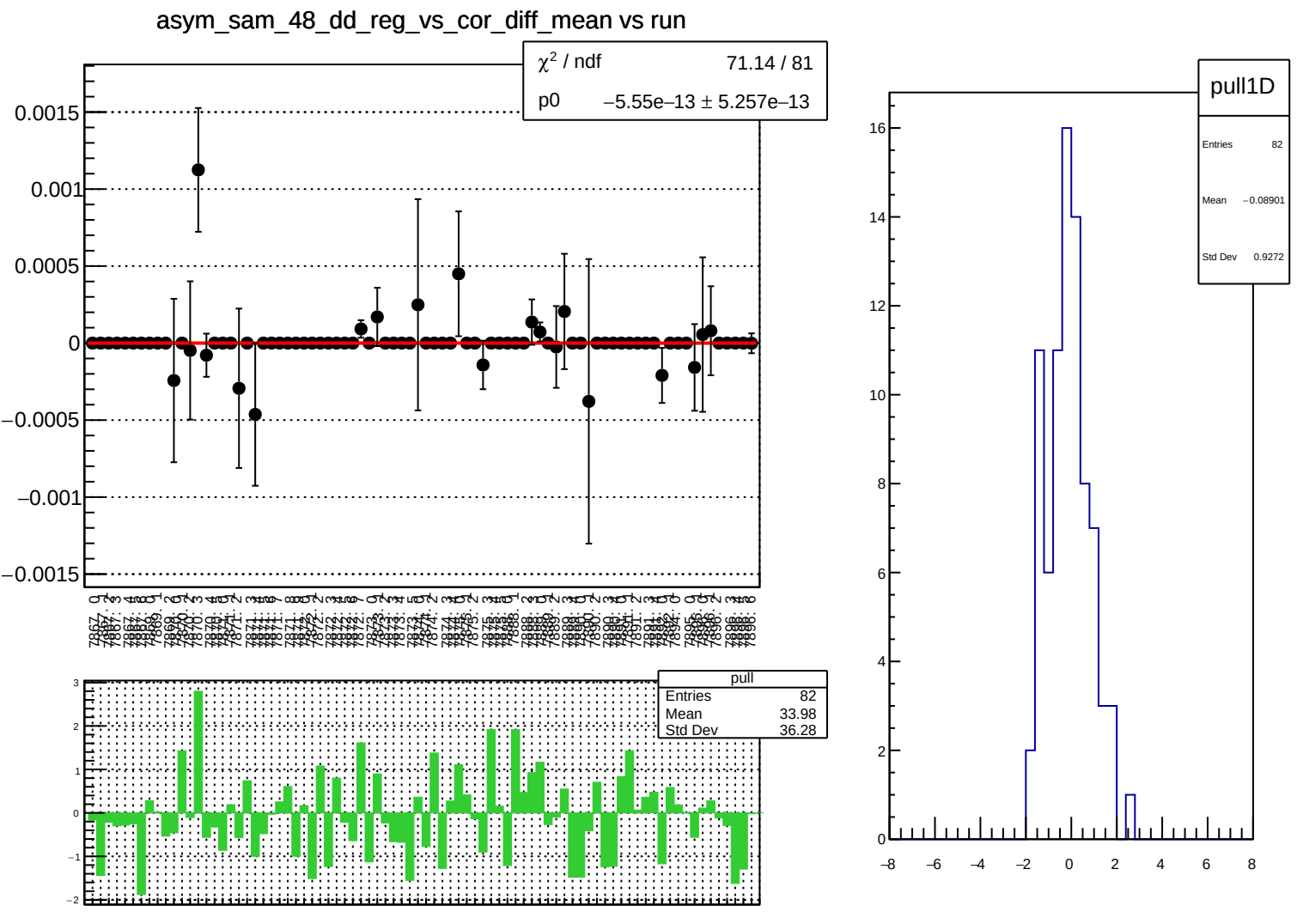

pull1D
Entries 82
Mean −0.006401
Std Dev 0.9367

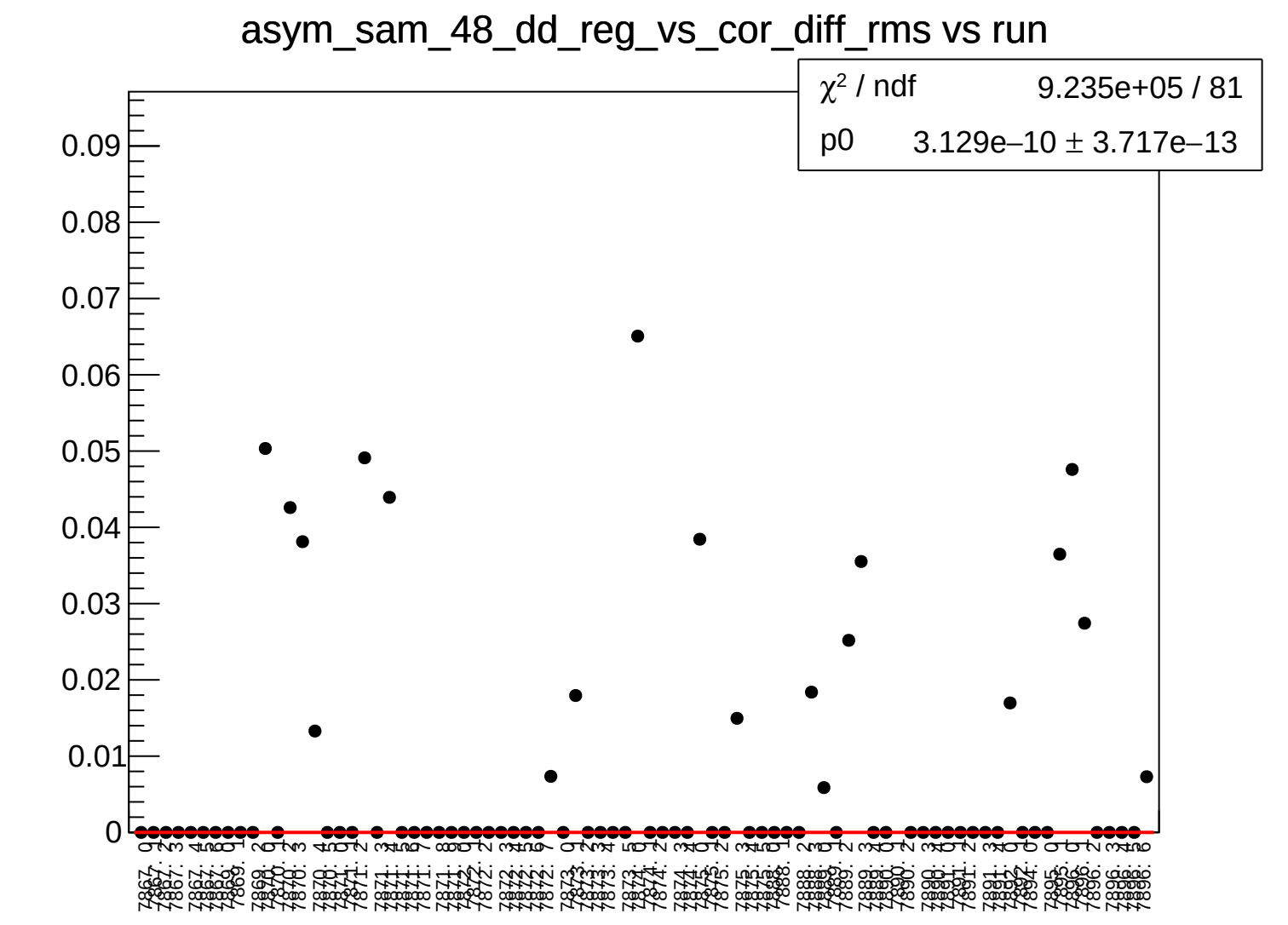

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.619e+04 / 81
p0 2383 ± 1.875
4000
3500
3000
2500
2000

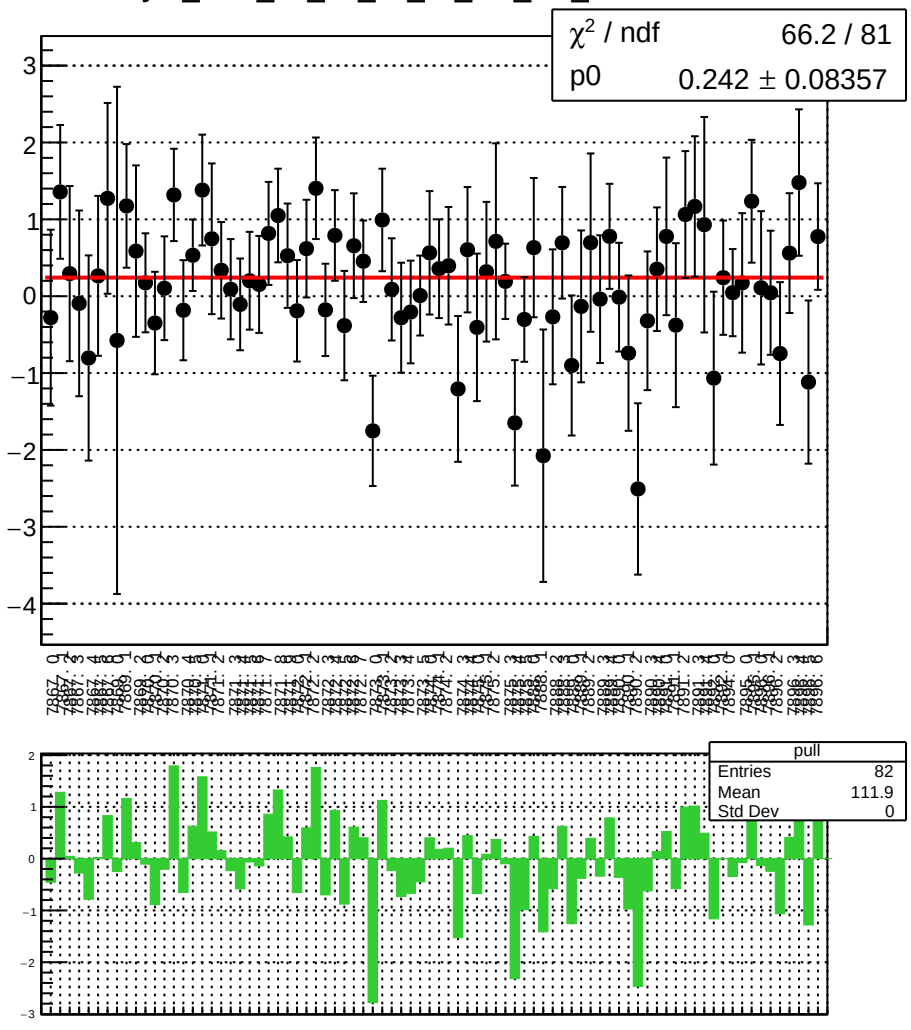

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 73.94 / 81
p0 1244 ± 2642
pull
Entries 82
Mean −111.2
Std Dev 0

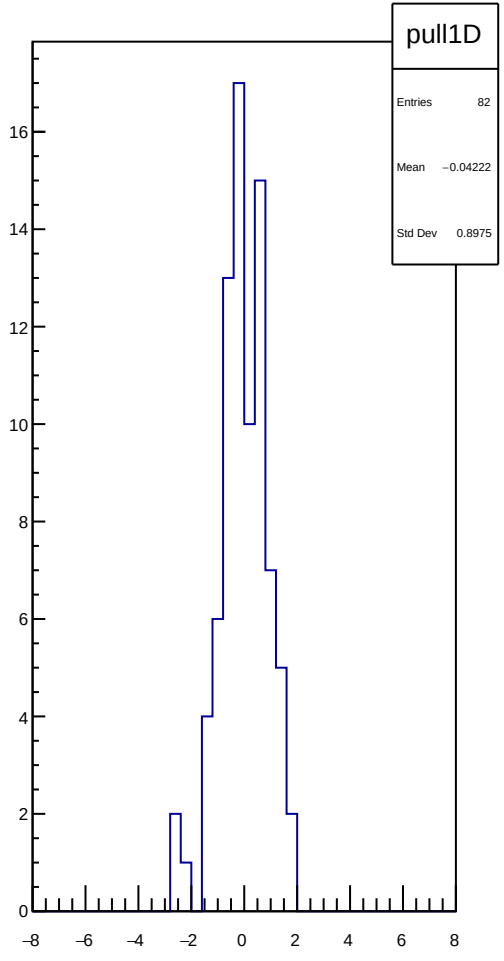

pull1D
Entries 82
Mean 0.007094
Std Dev 0.9495

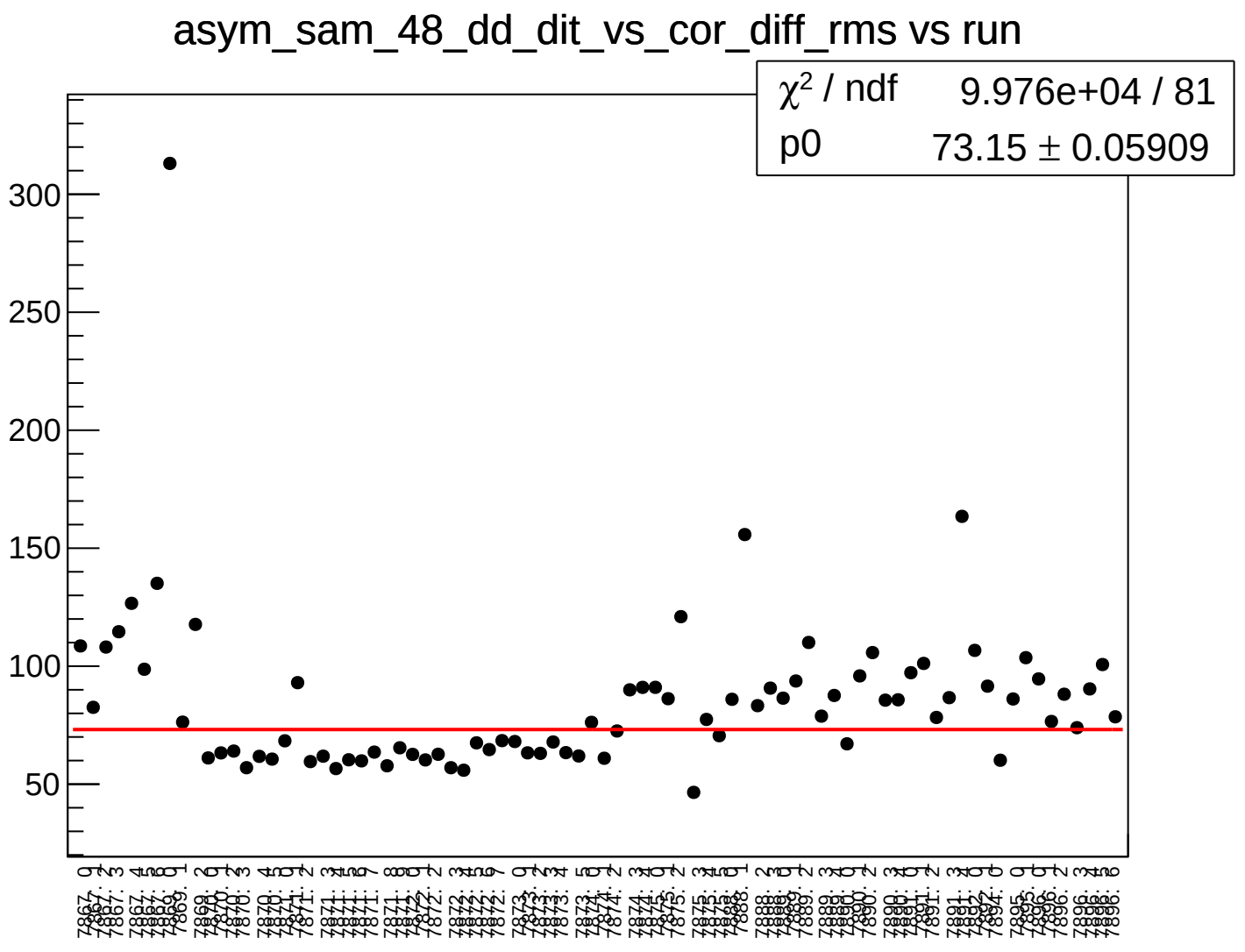

asym_sam_48_dd_rms vs run
χ² / ndf 1.687e+04 / 81
p0 2374 ± 1.868
4000
3500
3000
2500
2000

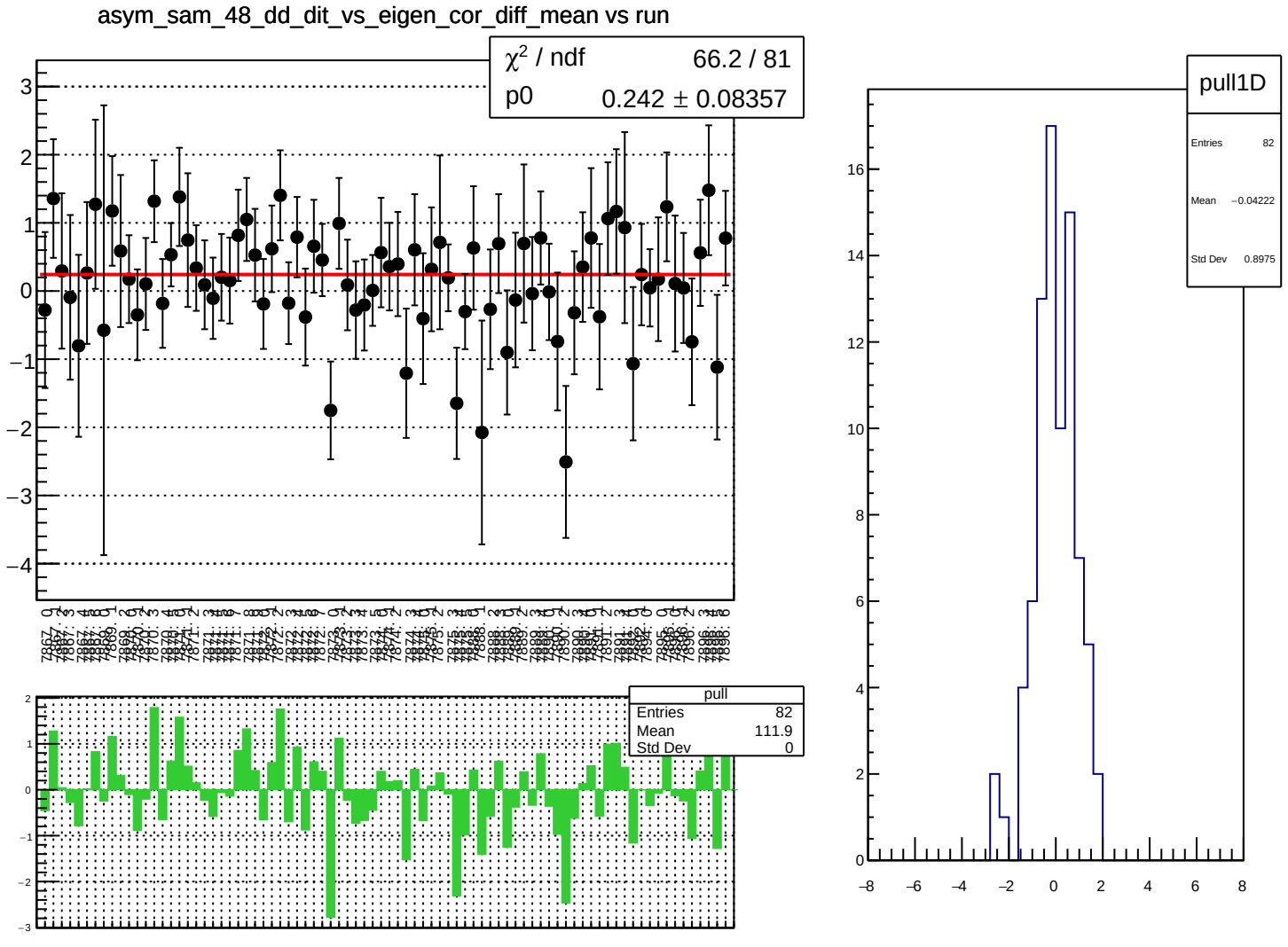

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.14 / 81
p0 −5.55e−13 ± 5.257e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 33.98
Std Dev 36.28
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.08901
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

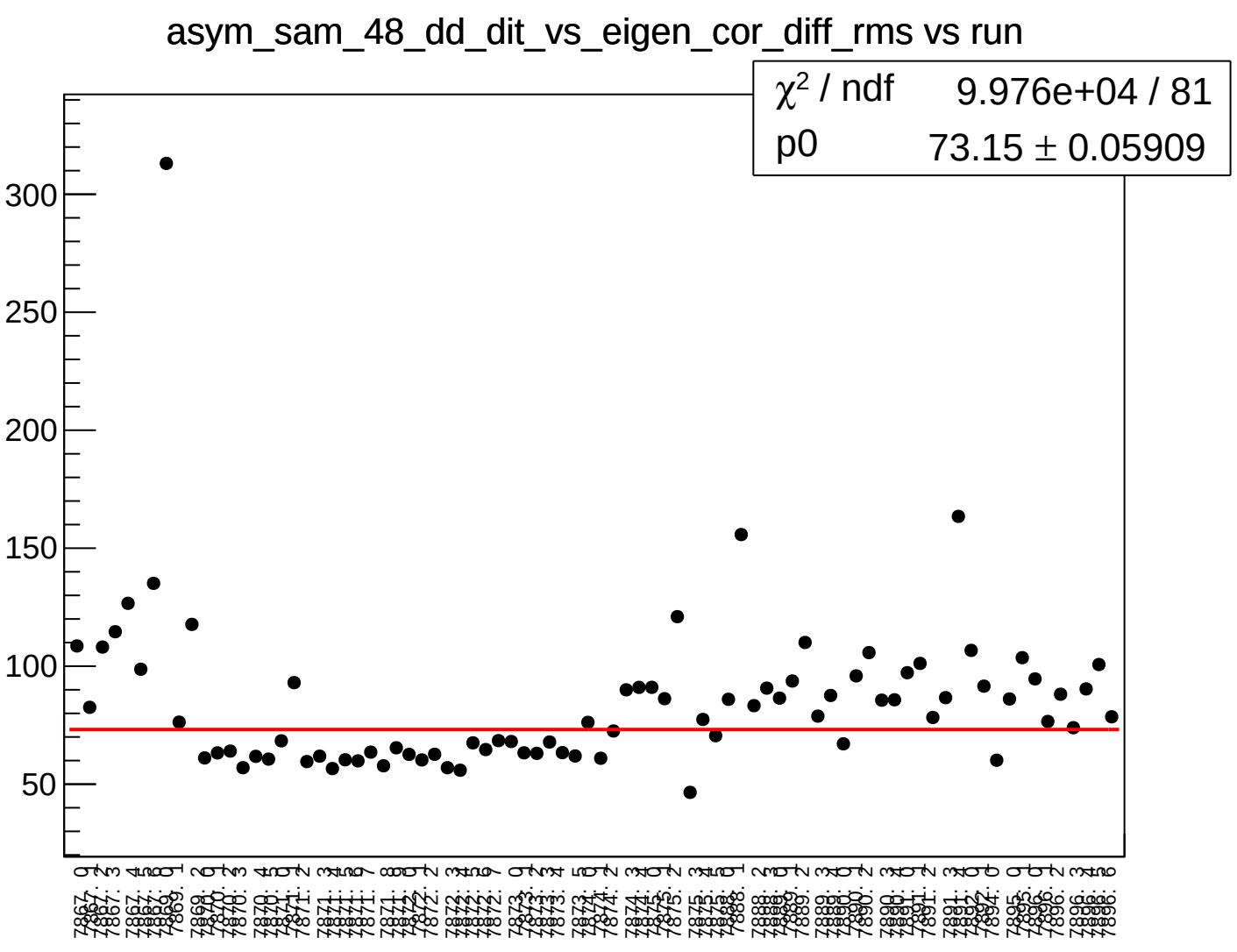

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.235e+05 / 81
p0 3.129e−10 ± 3.717e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

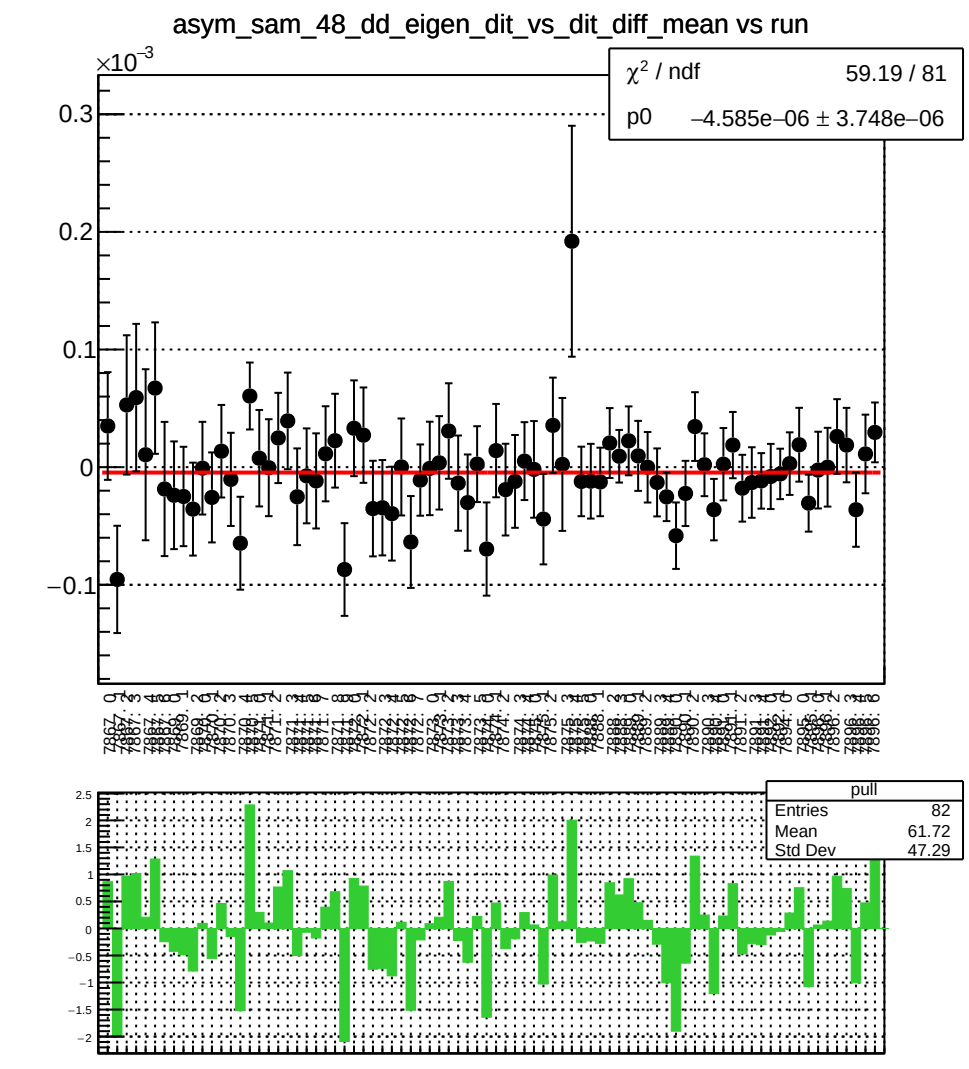

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.2 / 81
p0 0.242 ± 0.08357
pull
Entries 82
Mean 111.9
Std Dev 0

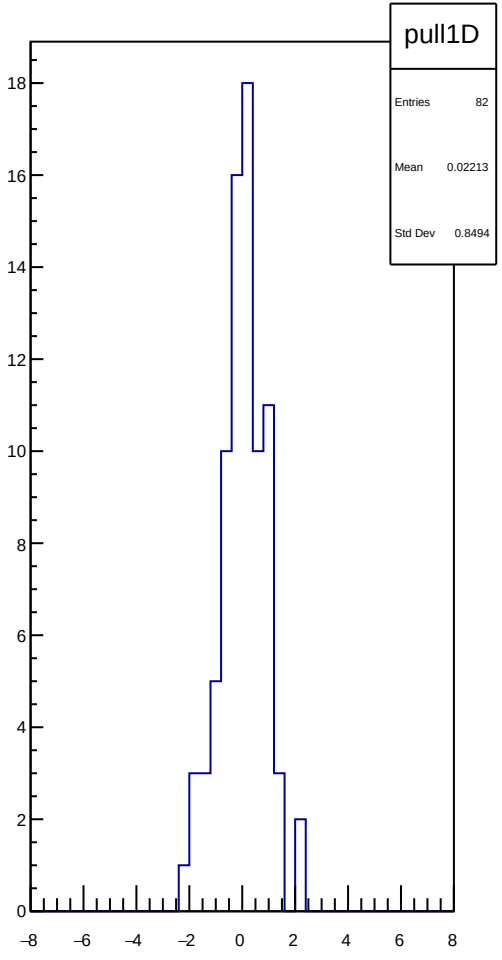

pull1D
Entries 82
Mean −0.04222
Std Dev 0.8975

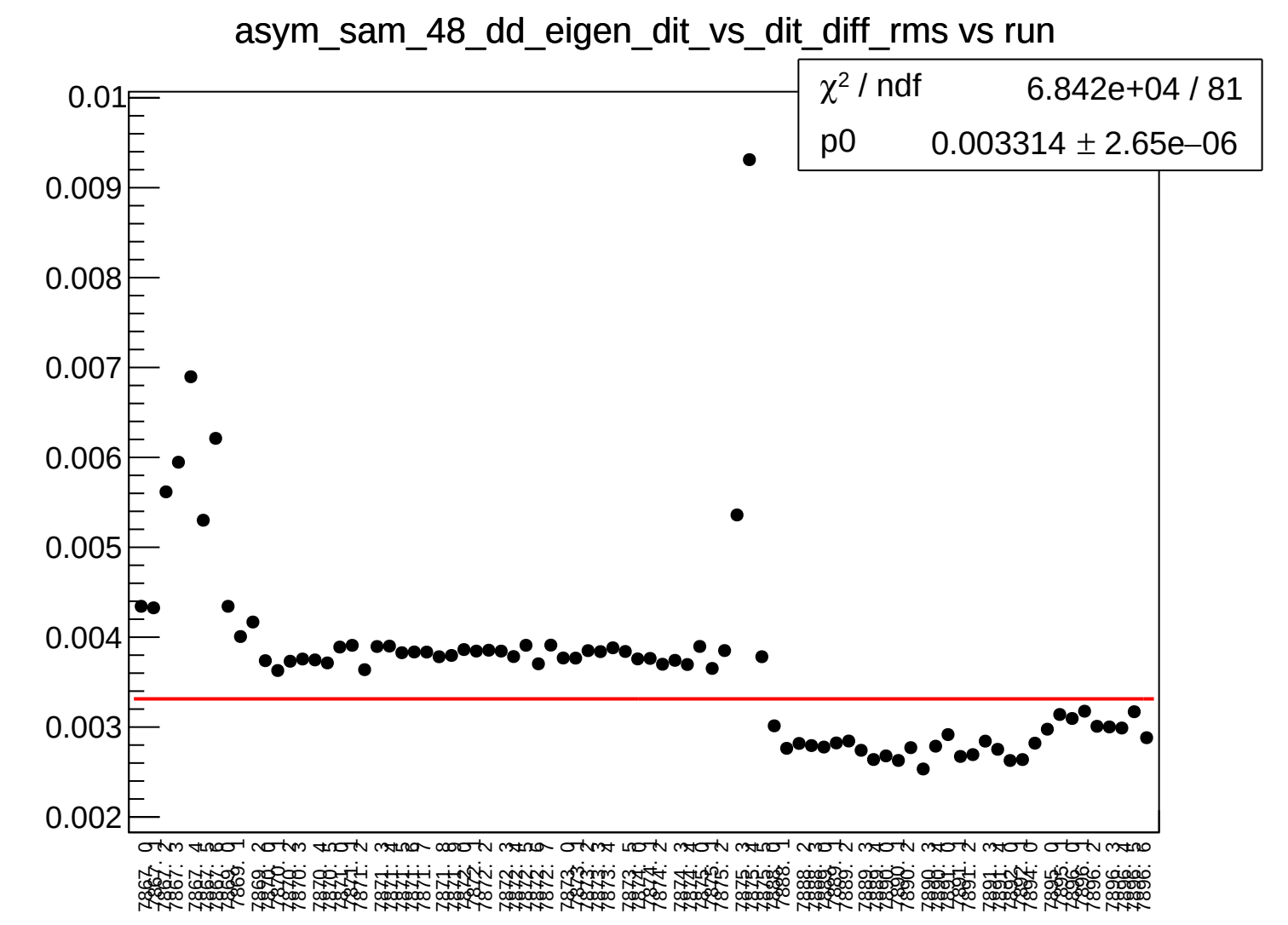

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.976e+04 / 81
p0 73.15 ± 0.05909
300
250
200
150
100
50

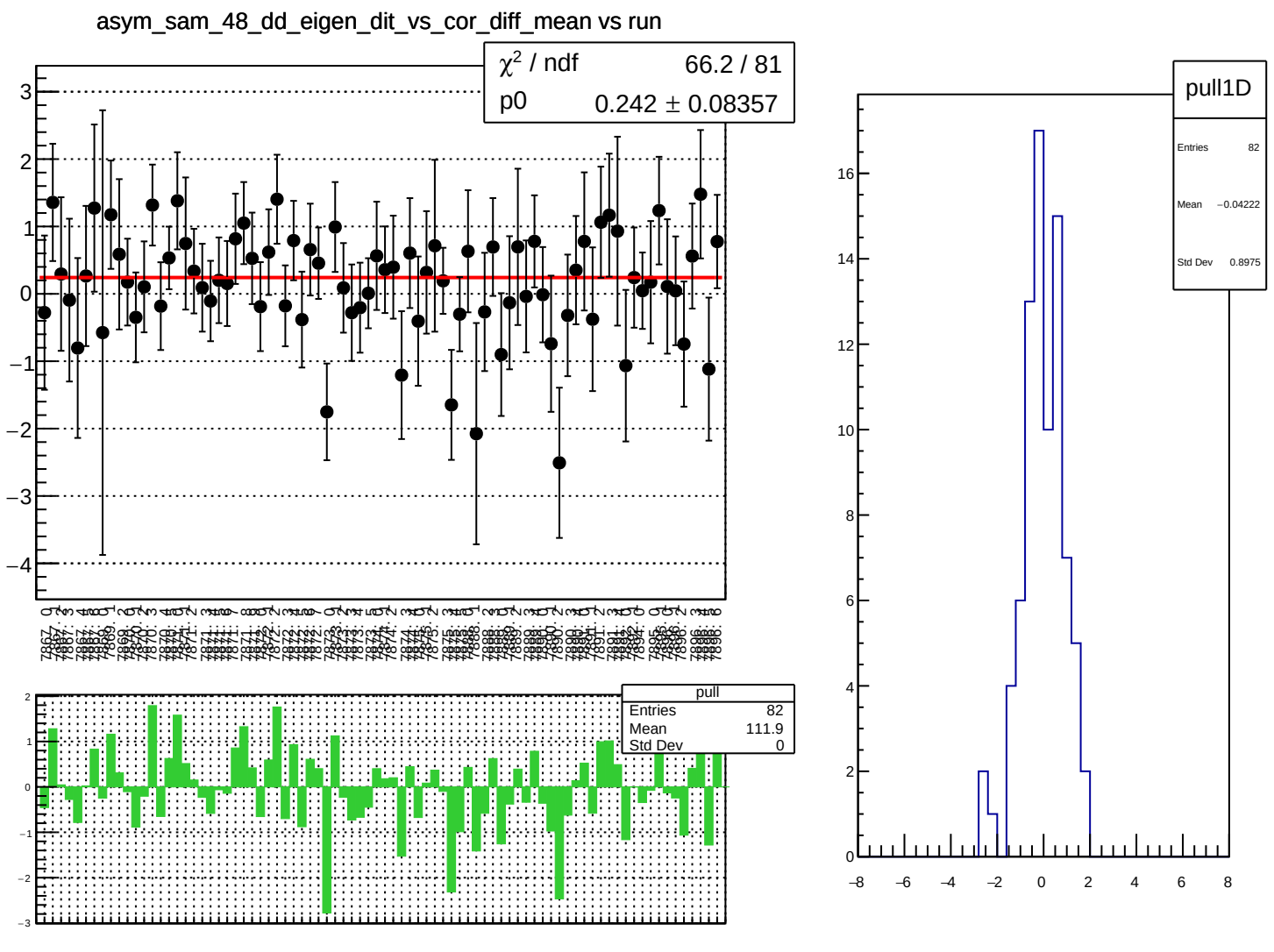

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.2 / 81
p0 0.242 ± 0.08357
pull
Entries 82
Mean 111.9
Std Dev 0
pull1D
Entries 82
Mean −0.04222
Std Dev 0.8975

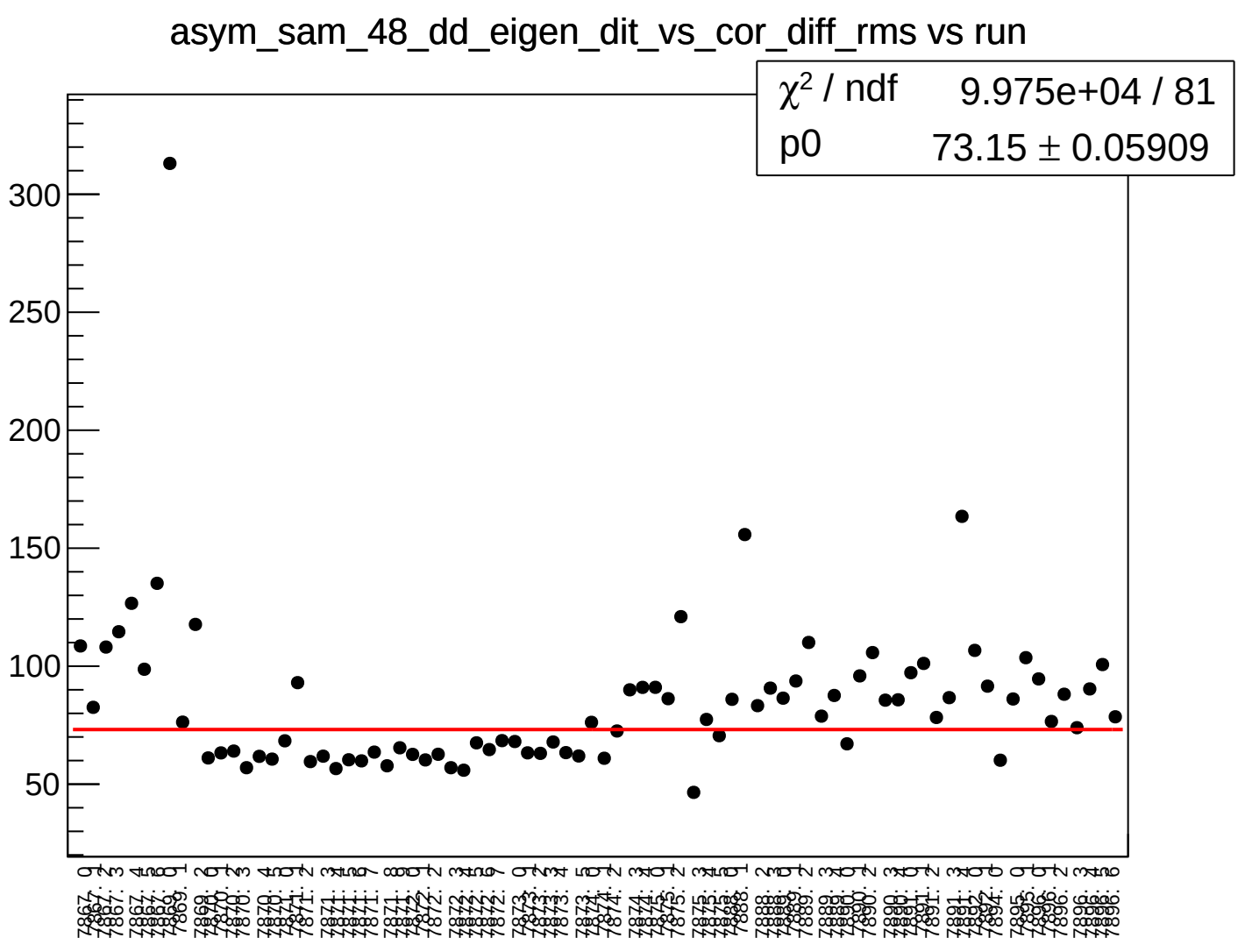

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.976e+04 / 81
p0 73.15 ± 0.05909
300
250
200
150
100
50

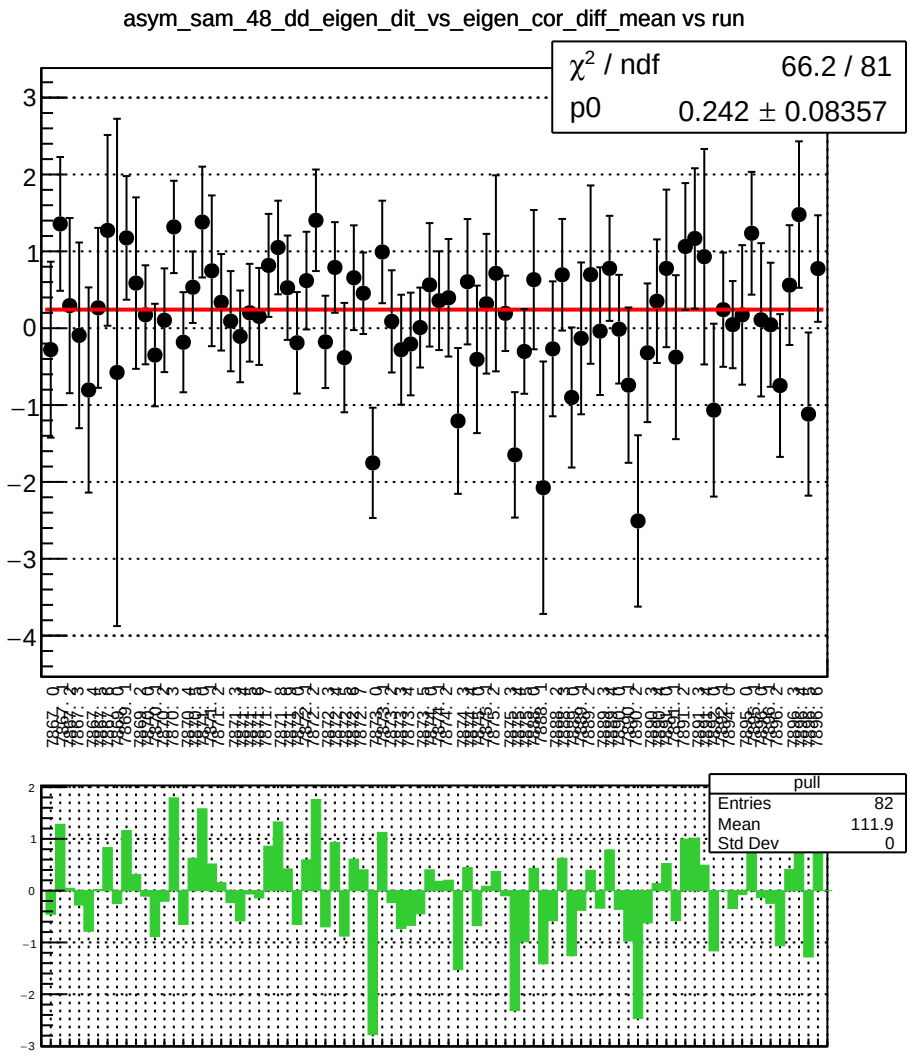

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.19 / 81
p0 −4.585e−06 ± 3.748e−06
pull
Entries 82
Mean 61.72
Std Dev 47.29

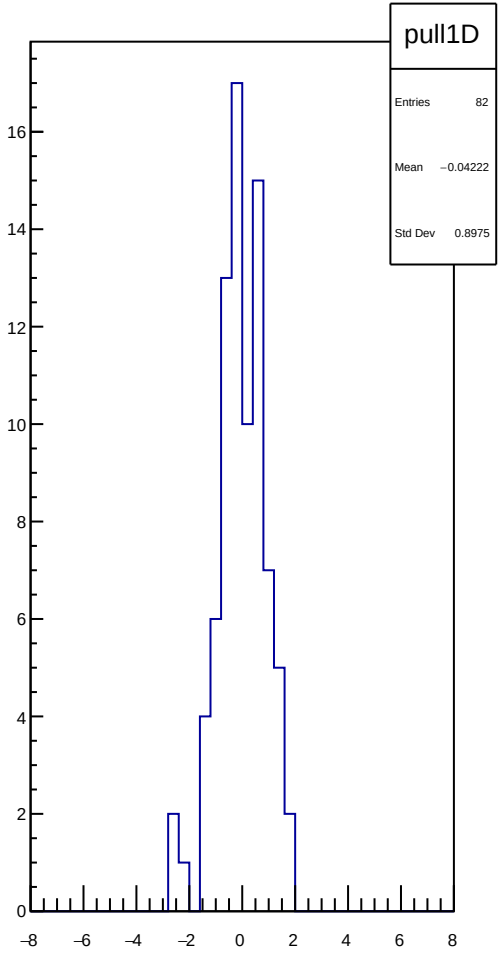

pull1D
Entries 82
Mean 0.02213
Std Dev 0.8494

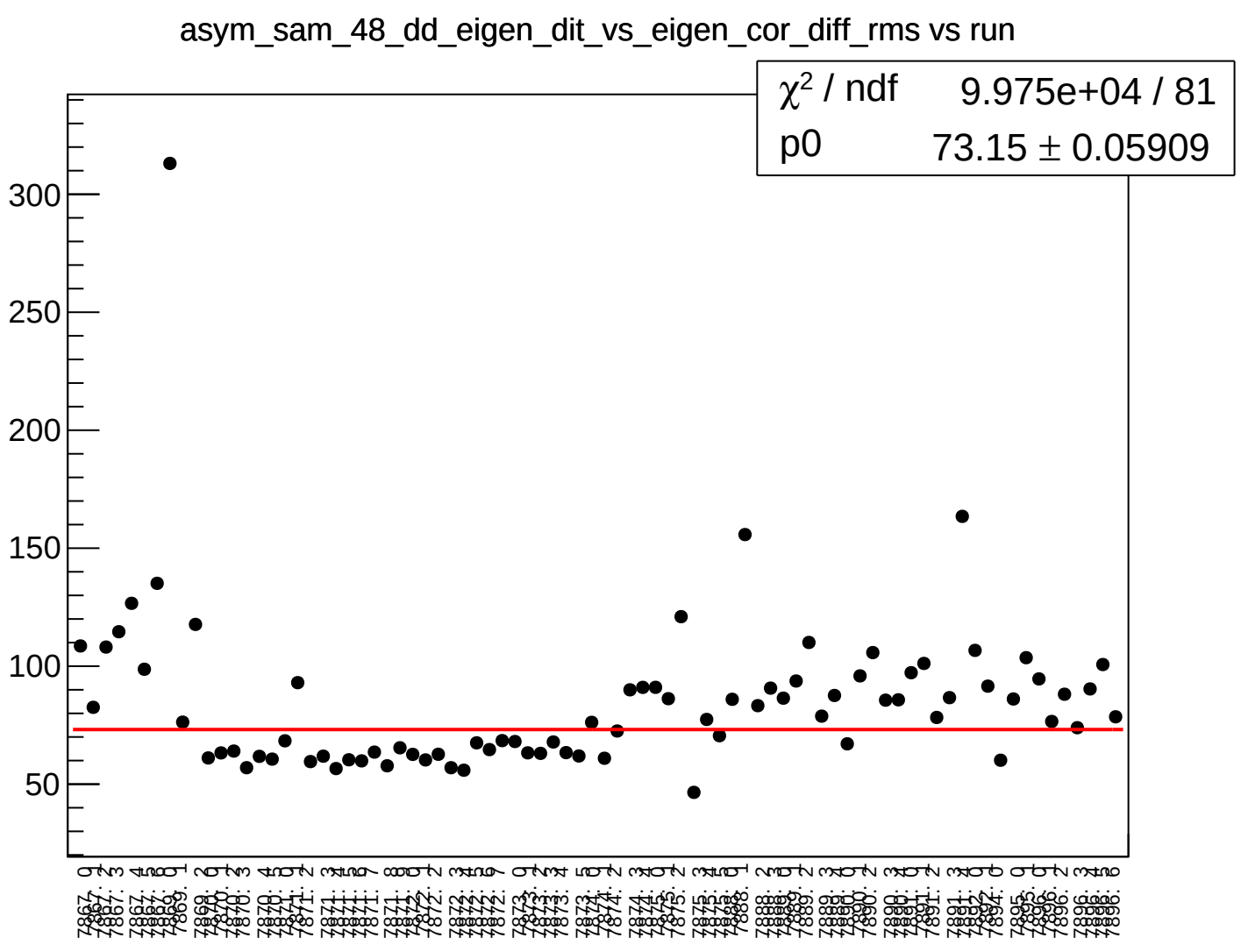

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.842e+04 / 81
p0 0.003314 ± 2.65e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

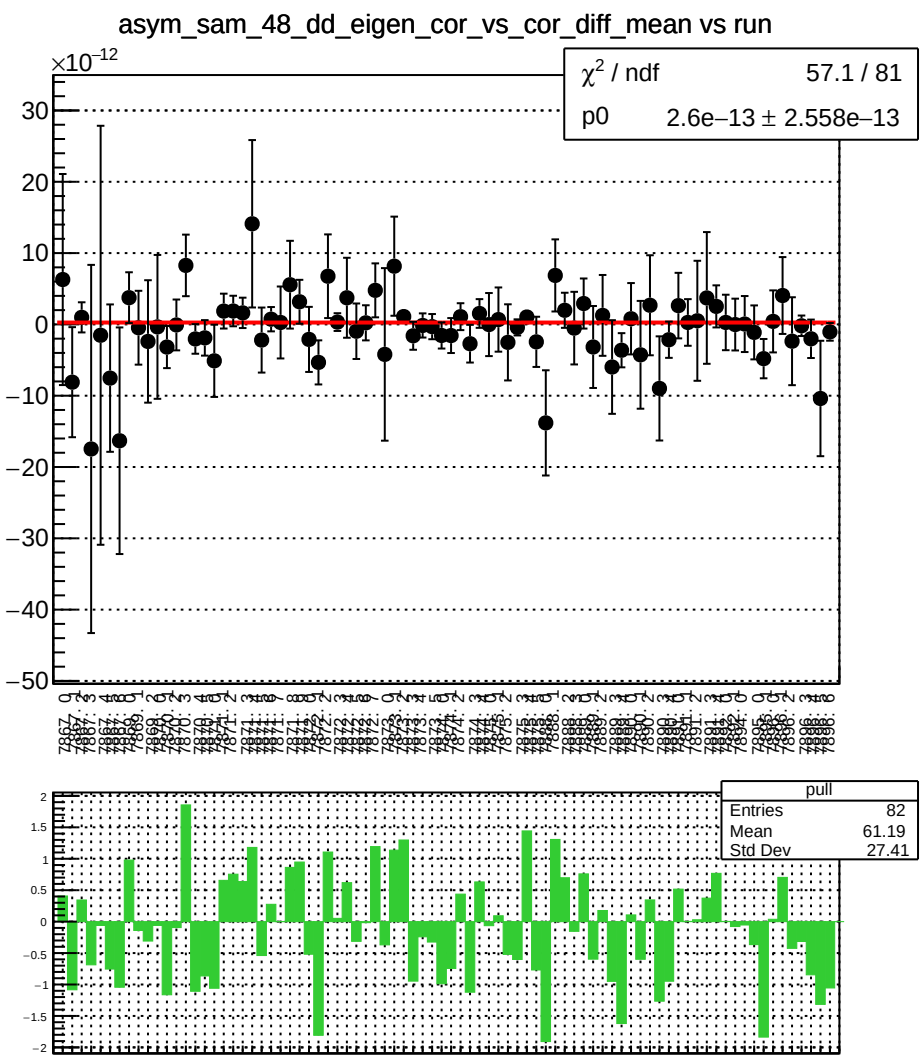

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.2 / 81
p0 0.242 ± 0.08357
pull
Entries 82
Mean 111.9
Std Dev 0
pull1D
Entries 82
Mean −0.04222
Std Dev 0.8975

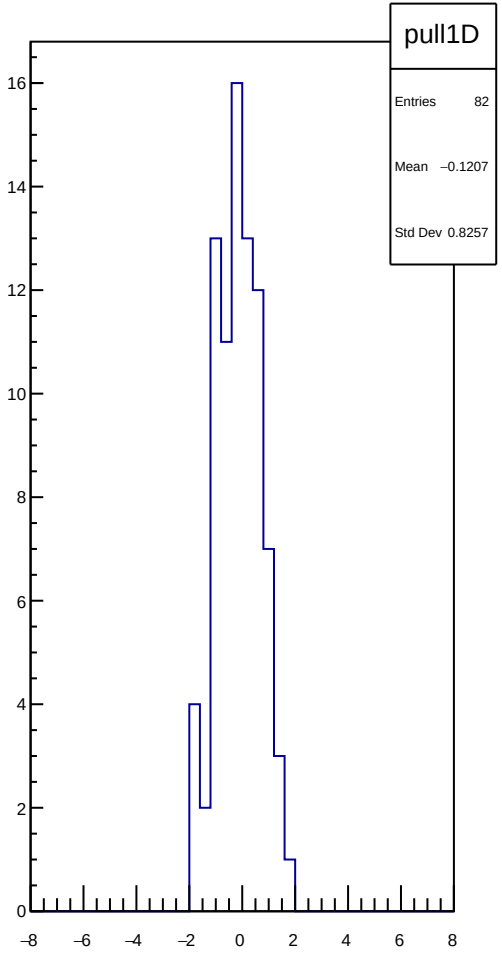

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.975e+04 / 81
p0 73.15 ± 0.05909
300
250
200
150
100
50

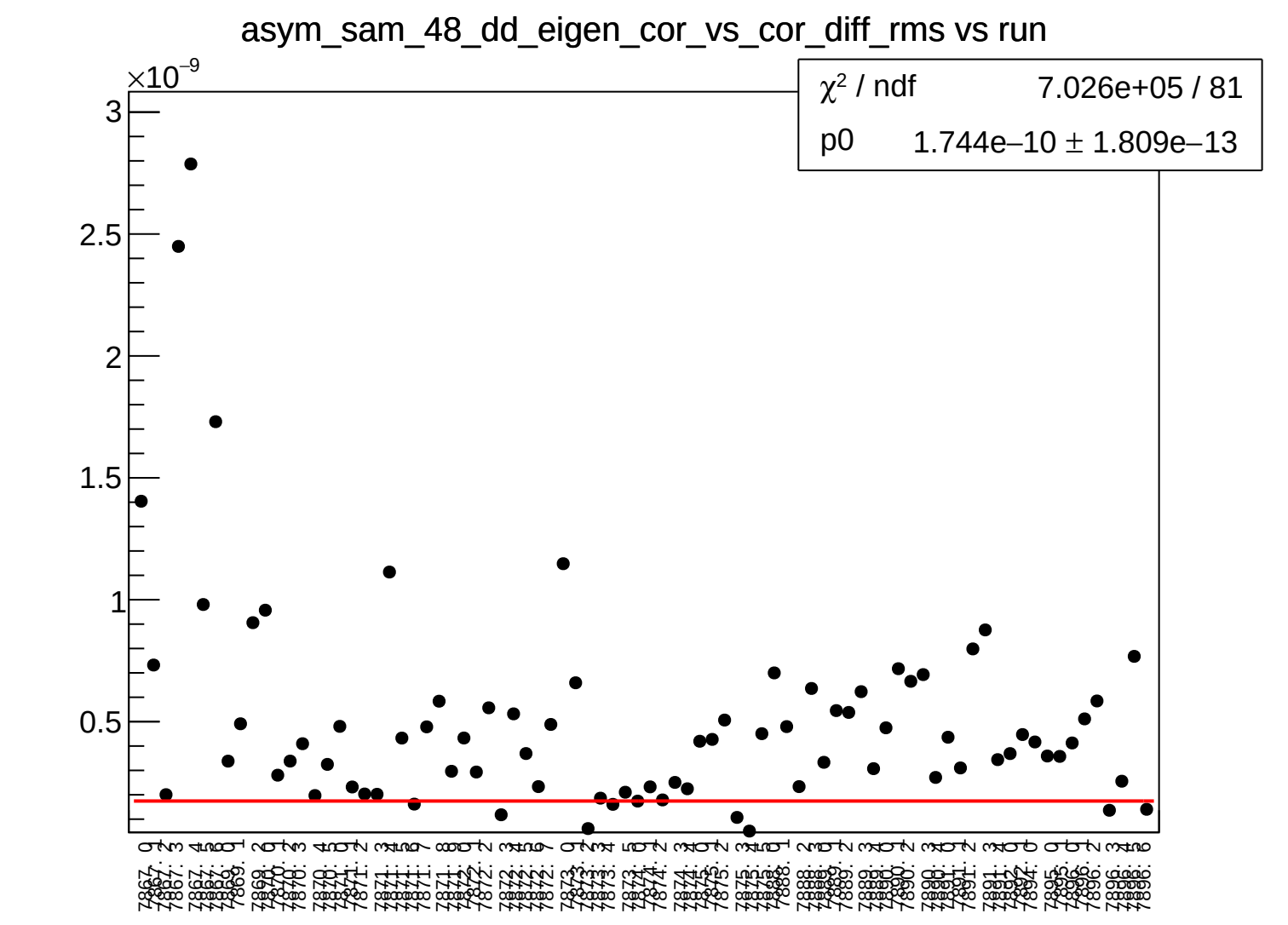

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.2 / 81
p0 0.242 ± 0.08357
pull
Entries 82
Mean 111.9
Std Dev 0

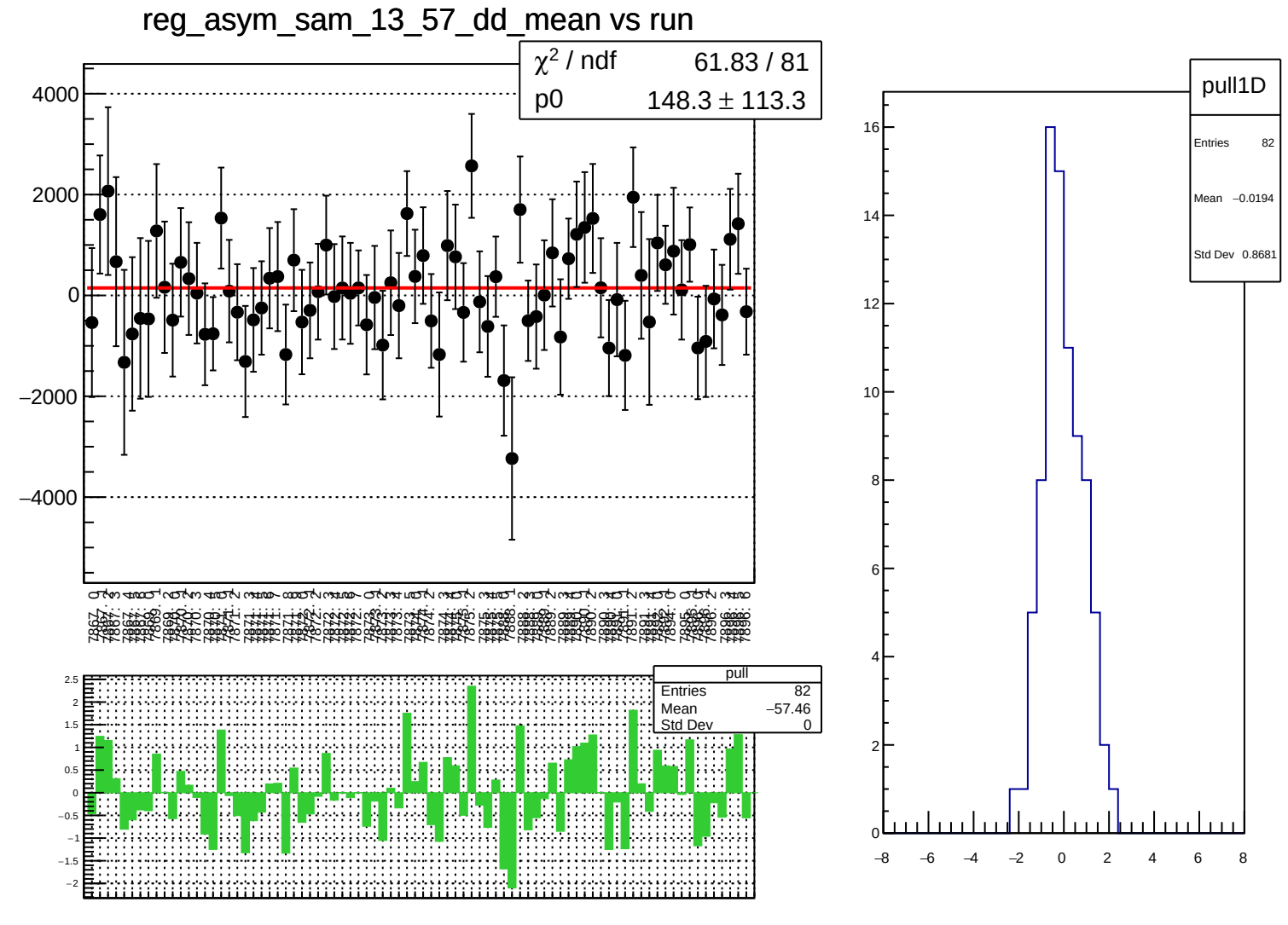

pull1D
Entries 82
Mean −0.04222
Std Dev 0.8975

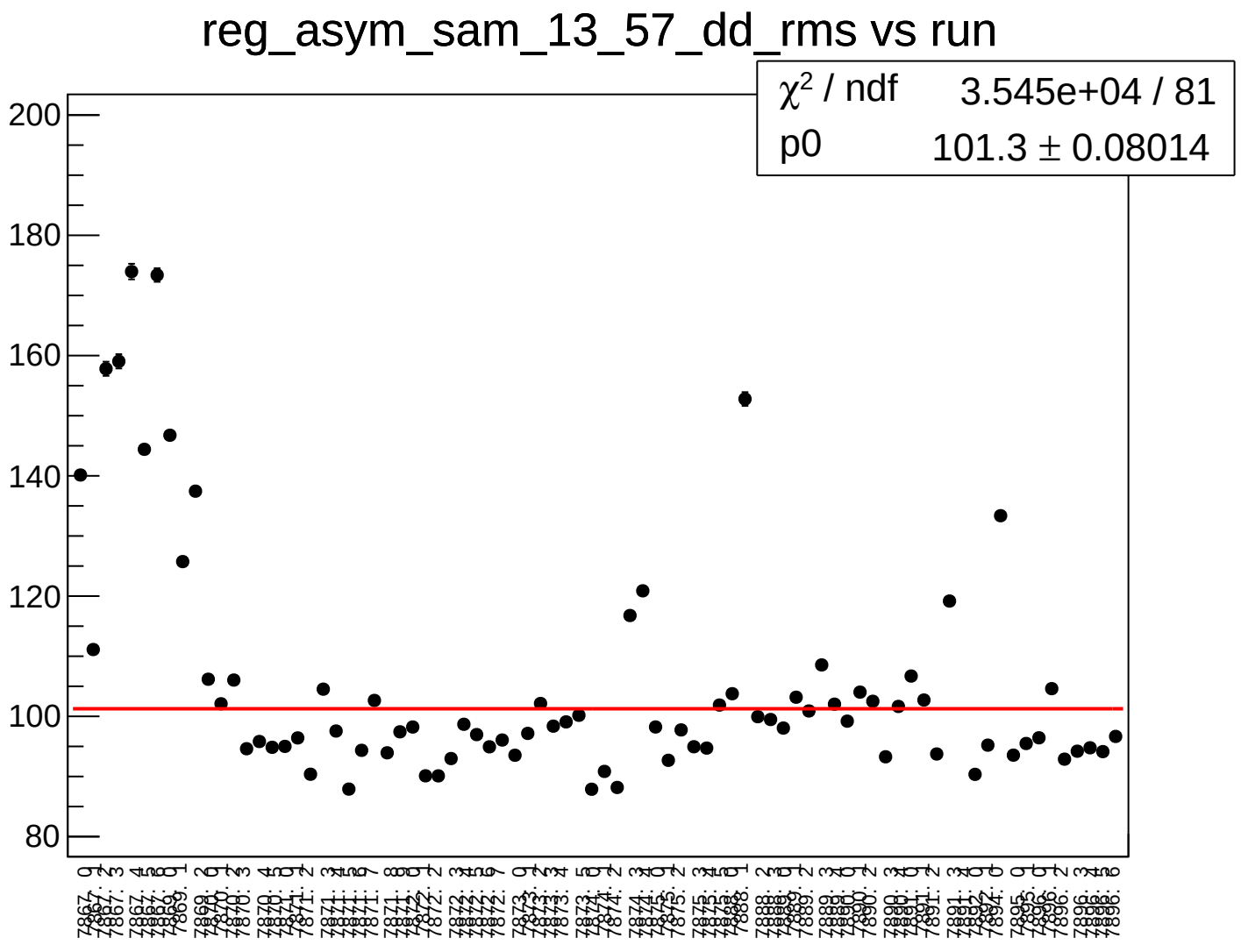

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.975e+04 / 81
p0 73.15 ± 0.05909
300
250
200
150
100
50

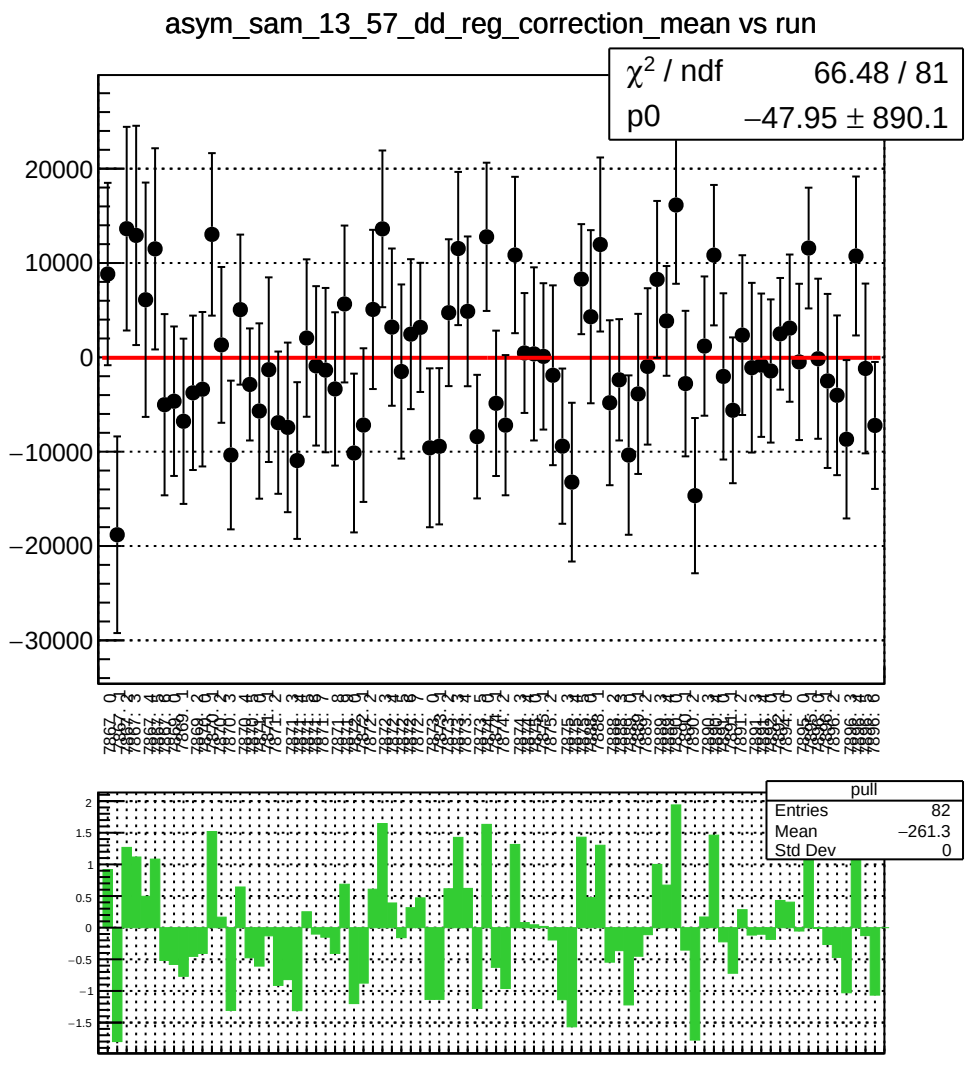

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.1 / 81
p0 2.6e−13 ± 2.558e−13
pull
Entries 82
Mean 61.19
Std Dev 27.41

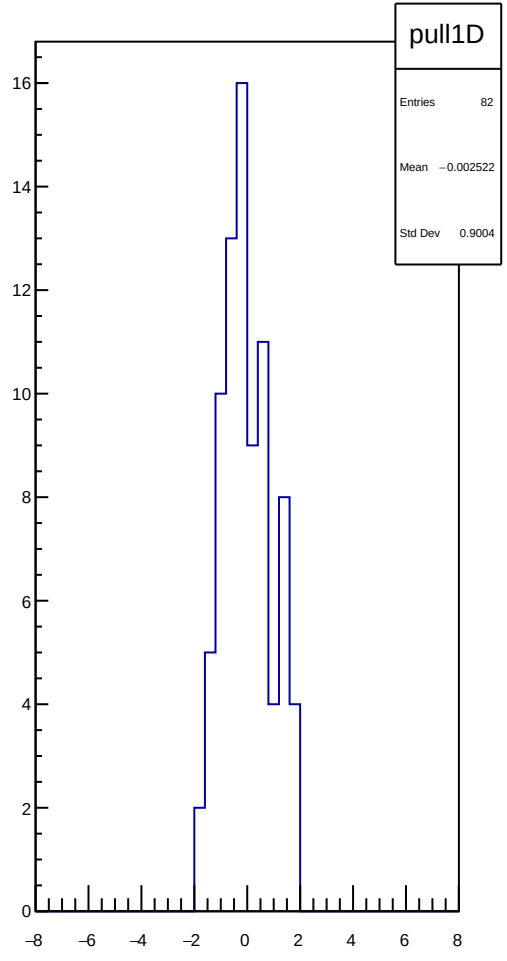

pull1D
Entries 82
Mean −0.1207
Std Dev 0.8257

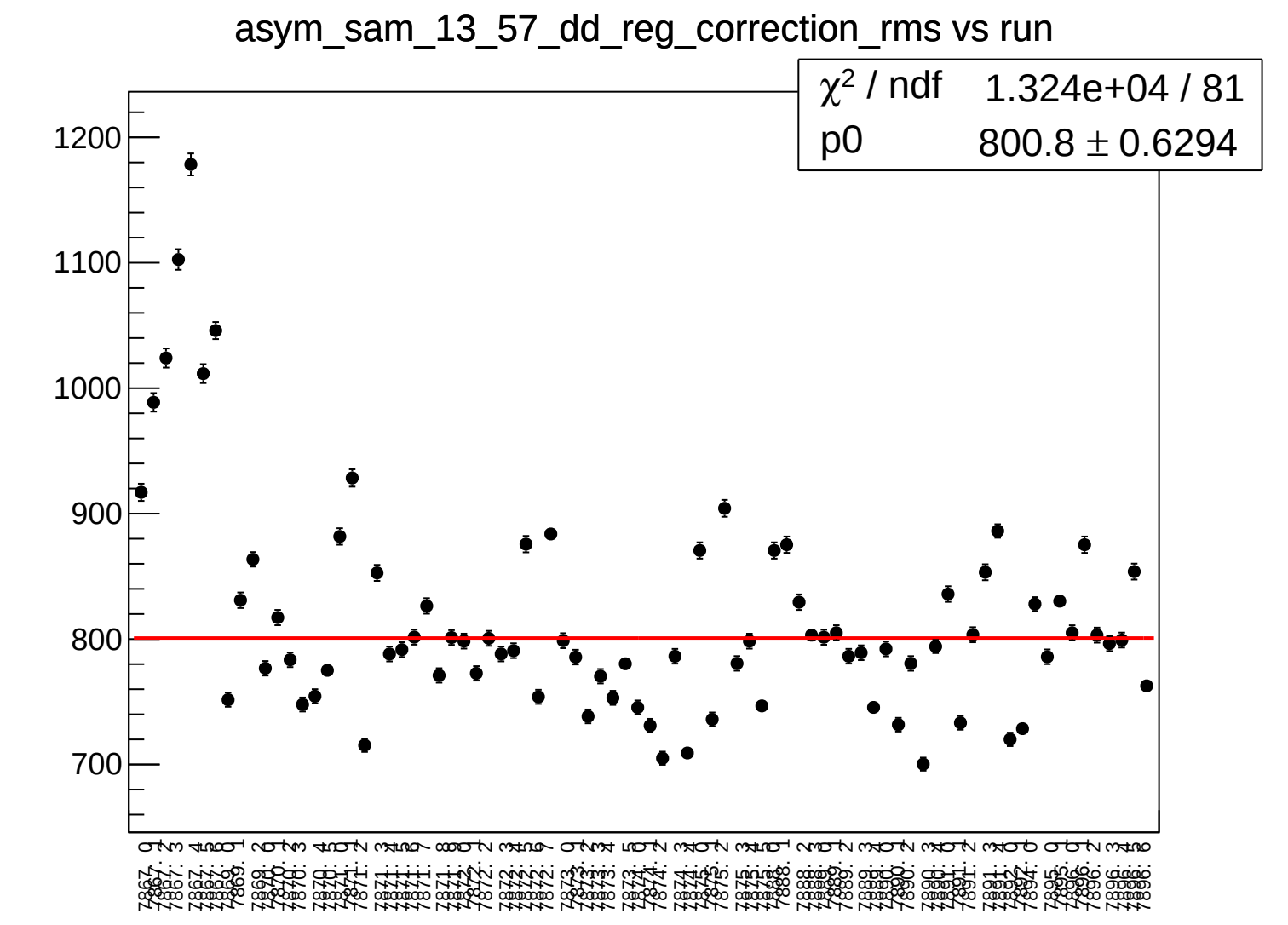

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.026e+05 / 81
p0 1.744e−10 ± 1.809e−13
3
2.5
2
1.5
1
0.5

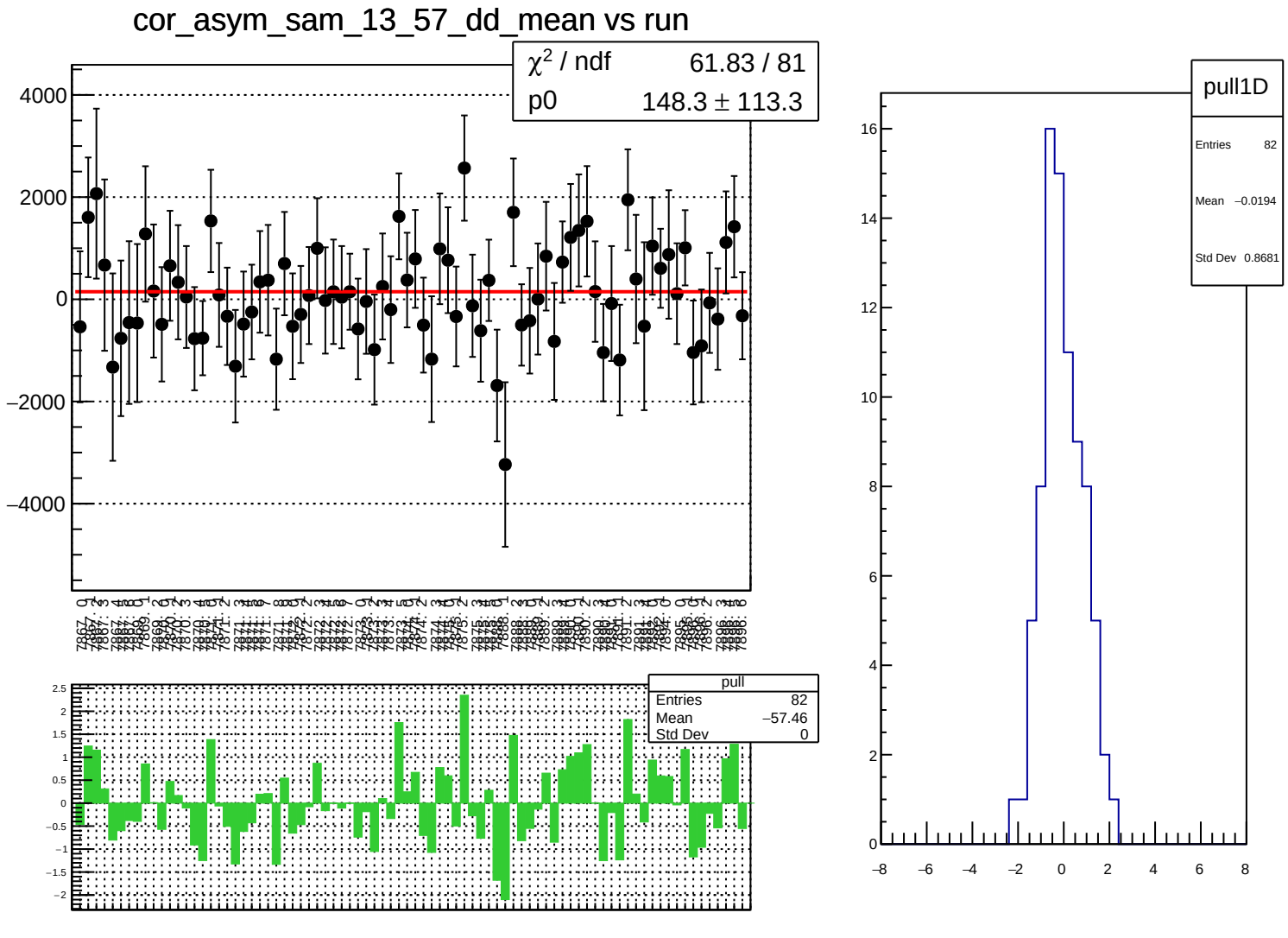

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 61.83 / 81
p0 148.3 ± 113.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −57.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.0194
Std Dev 0.8681
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

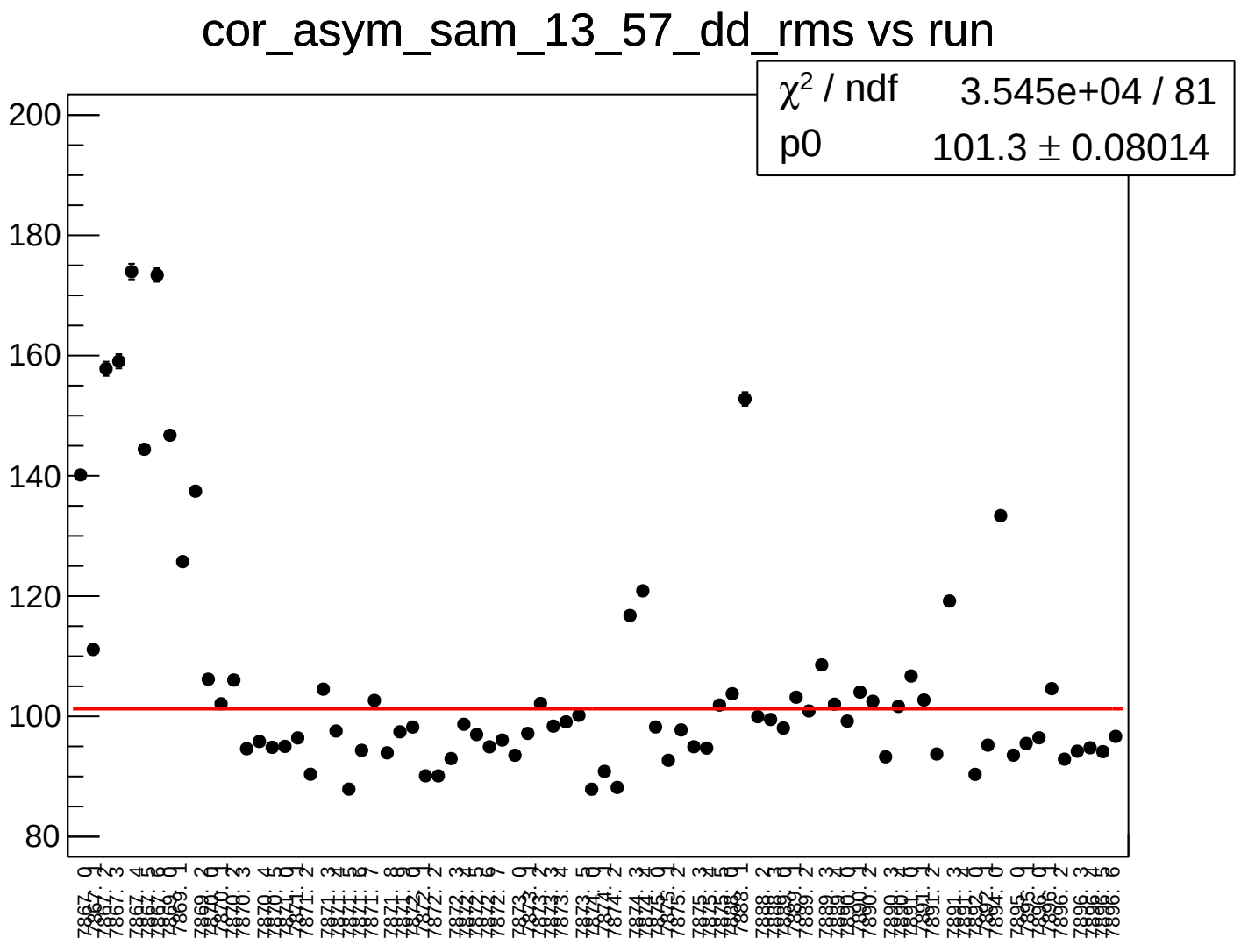

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 3.545e+04 / 81
p0 101.3 ± 0.08014
200
180
160
140
120
100
80

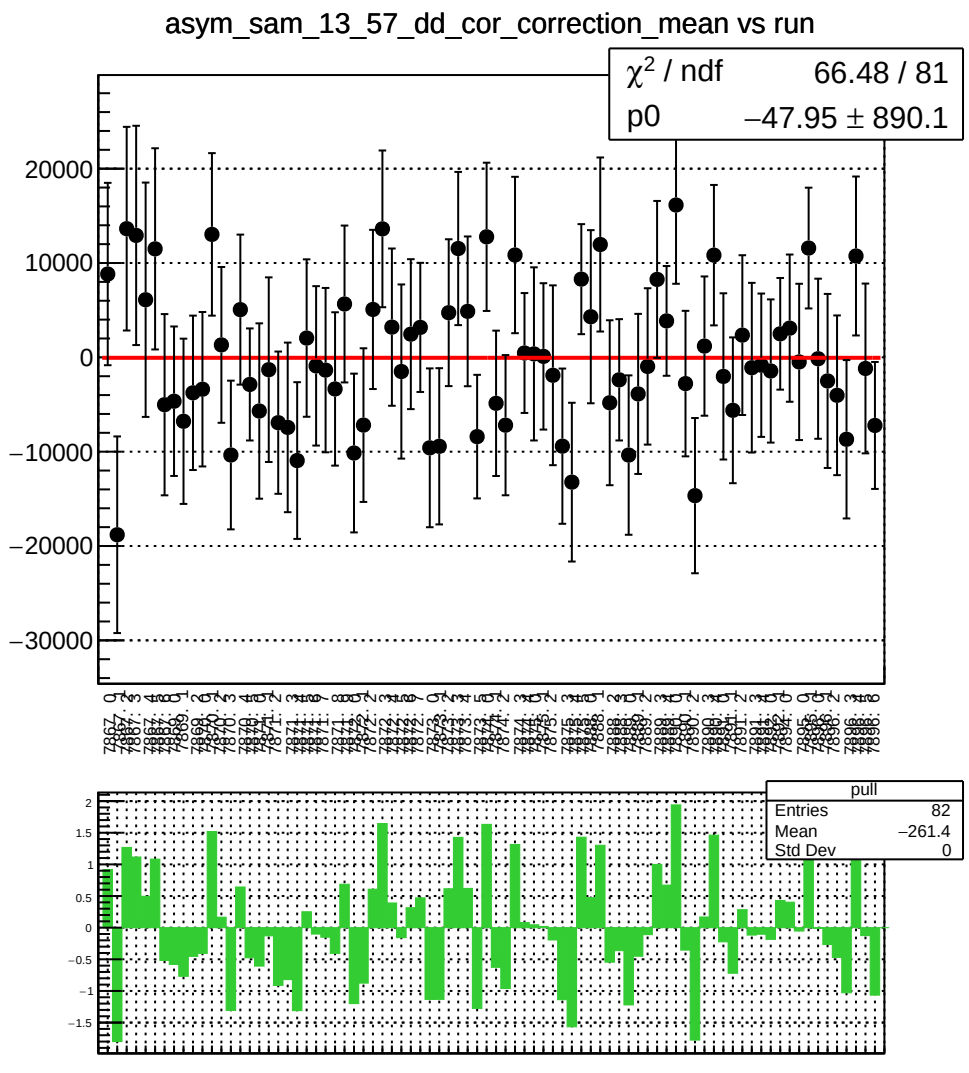

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 66.48 / 81
p0 −47.95 ± 890.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −261.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

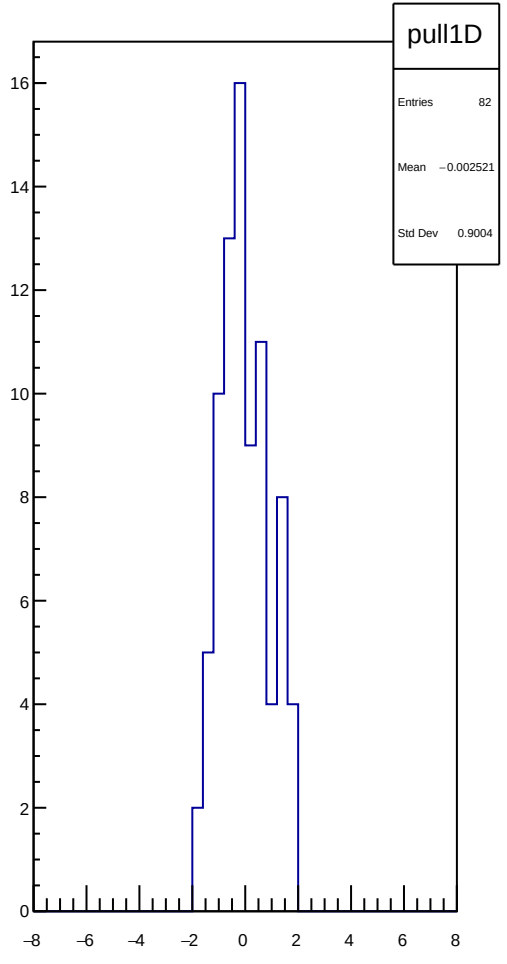

pull1D
Entries 82
Mean −0.002522
Std Dev 0.9004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

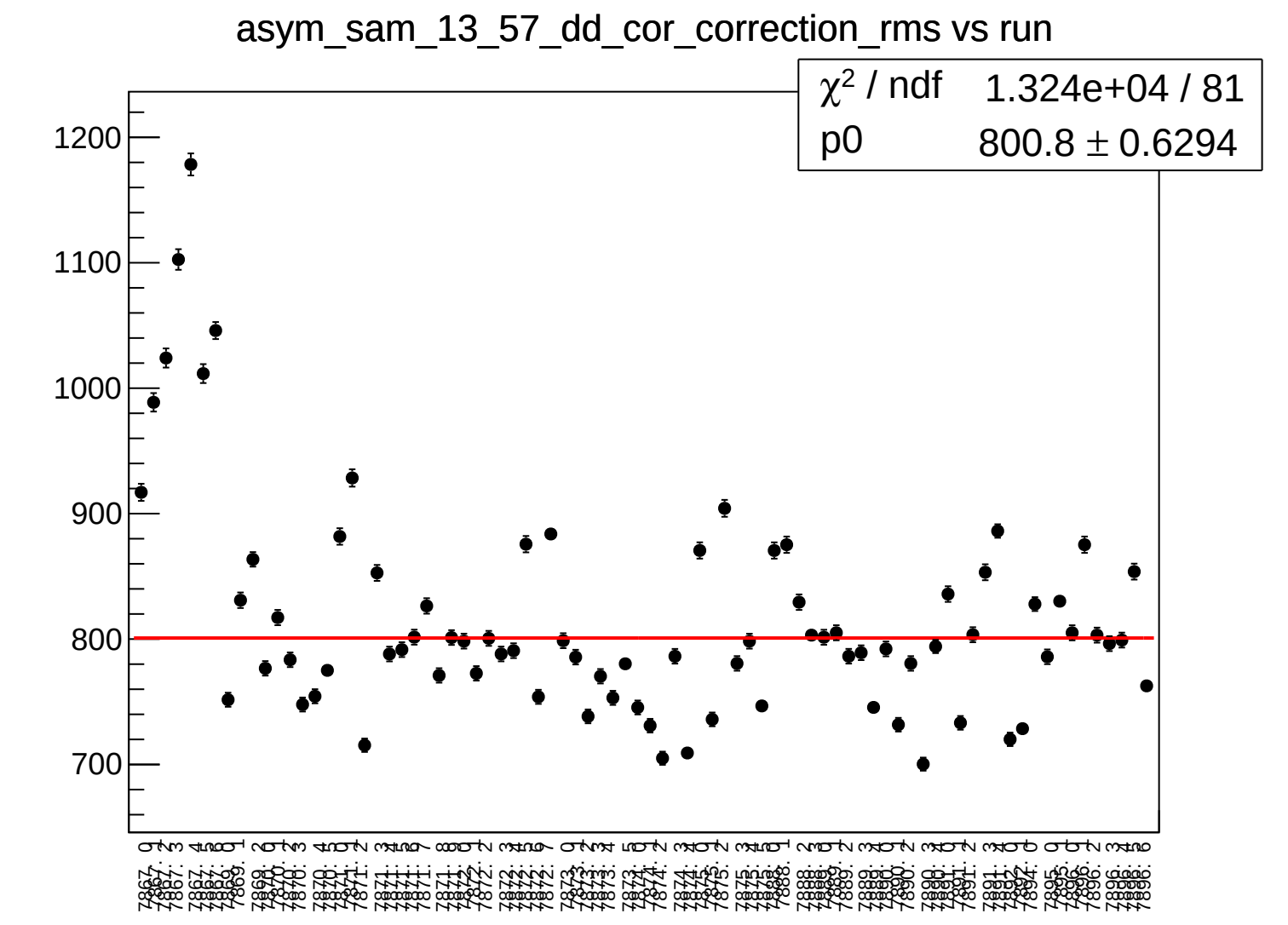

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.324e+04 / 81
p0 800.8 ± 0.6294
1200
1100
1000
900
800
700

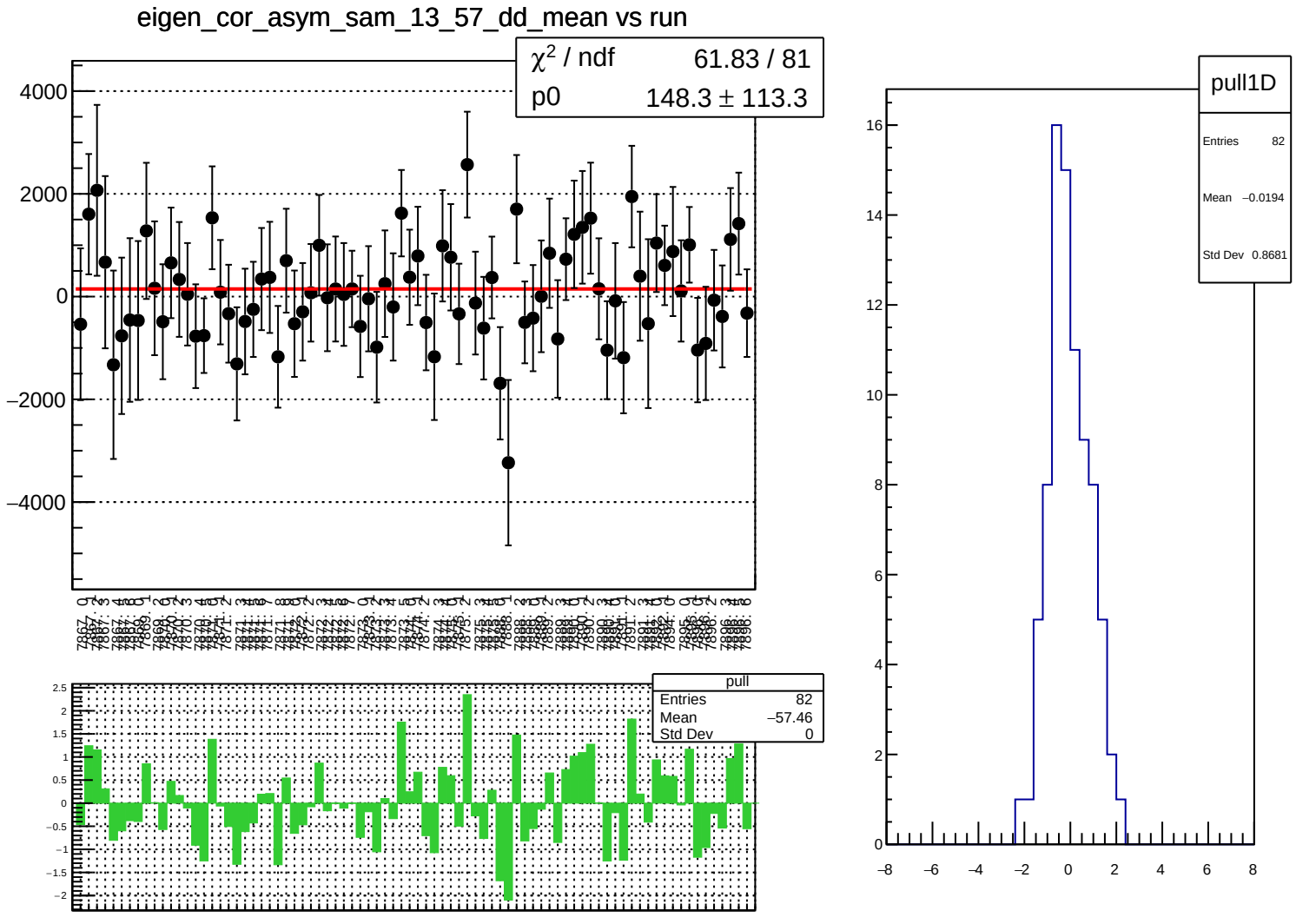

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 61.83 / 81
p0 148.3 ± 113.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −57.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.0194
Std Dev 0.8681
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

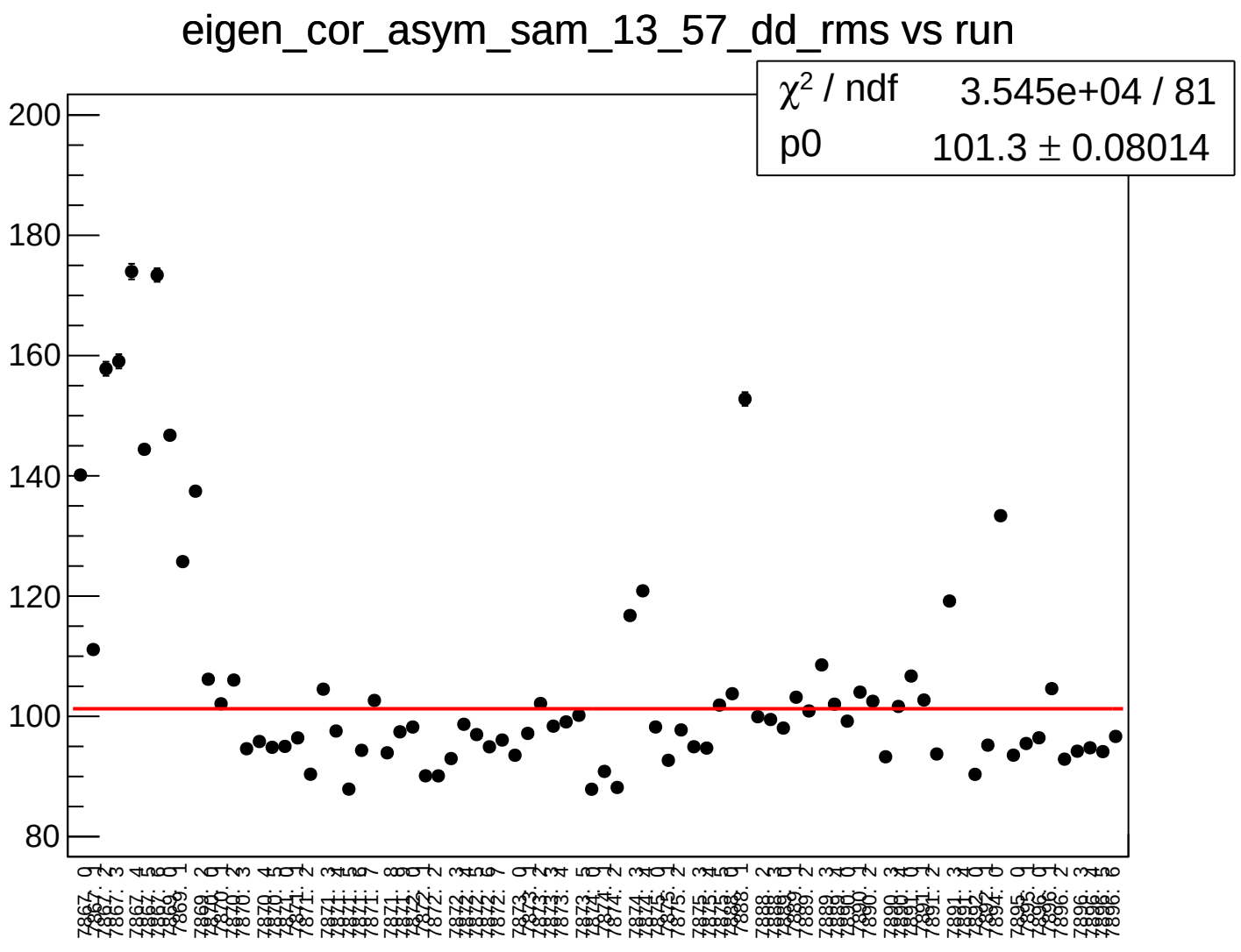

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 3.545e+04 / 81
p0 101.3 ± 0.08014
200
180
160
140
120
100
80

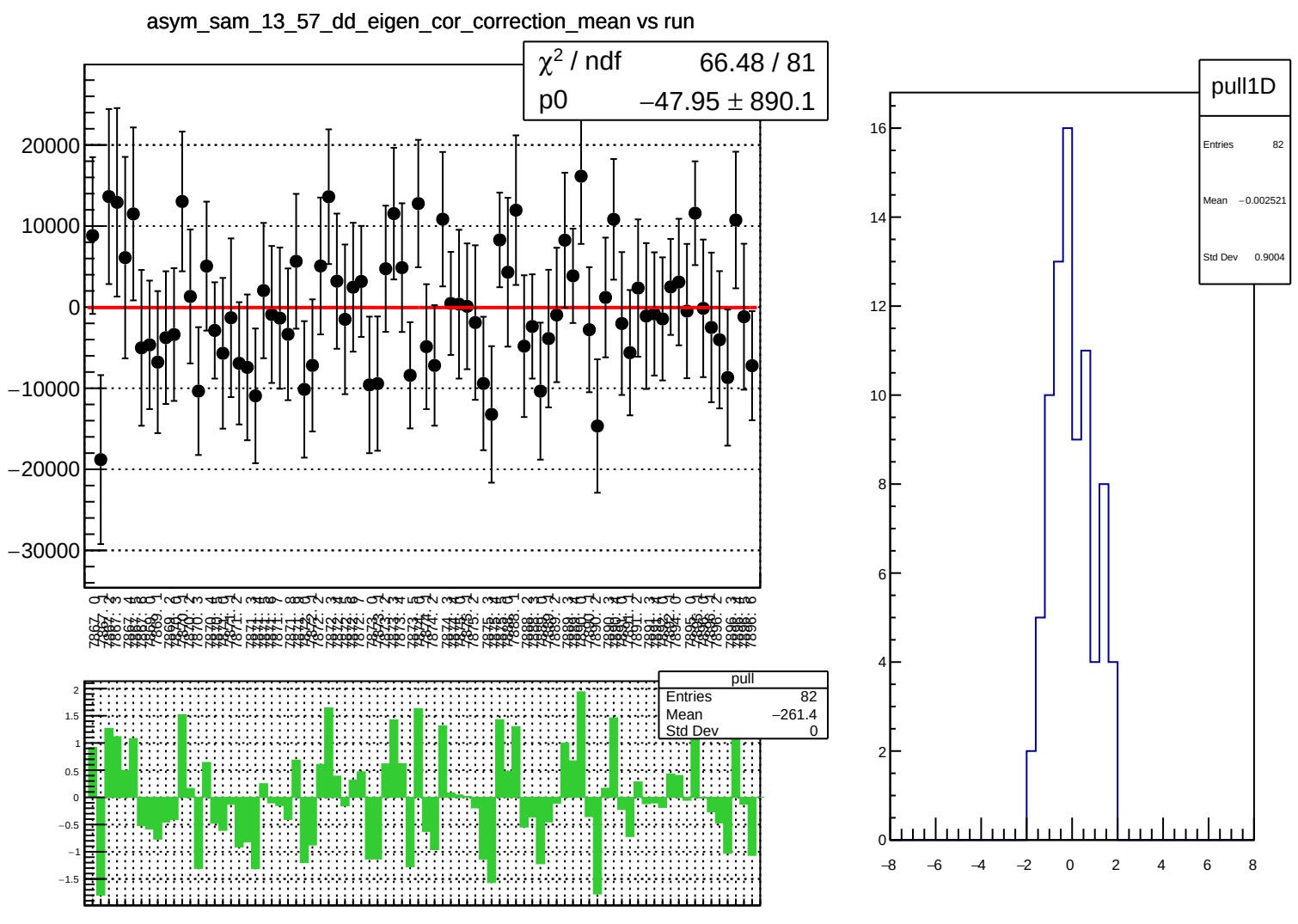

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 66.48 / 81
p0 −47.95 ± 890.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −261.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

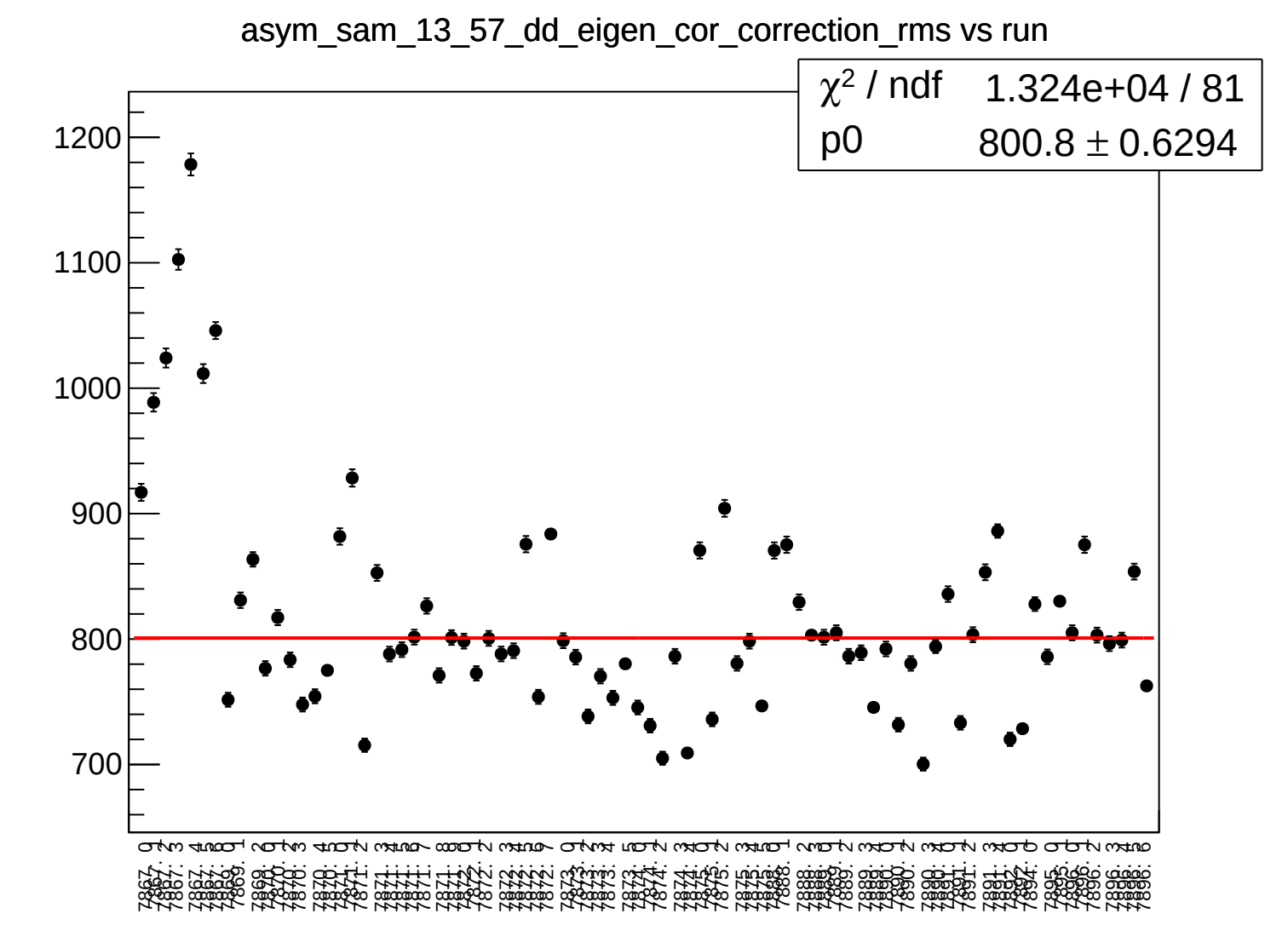

pull1D
Entries 82
Mean −0.002521
Std Dev 0.9004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

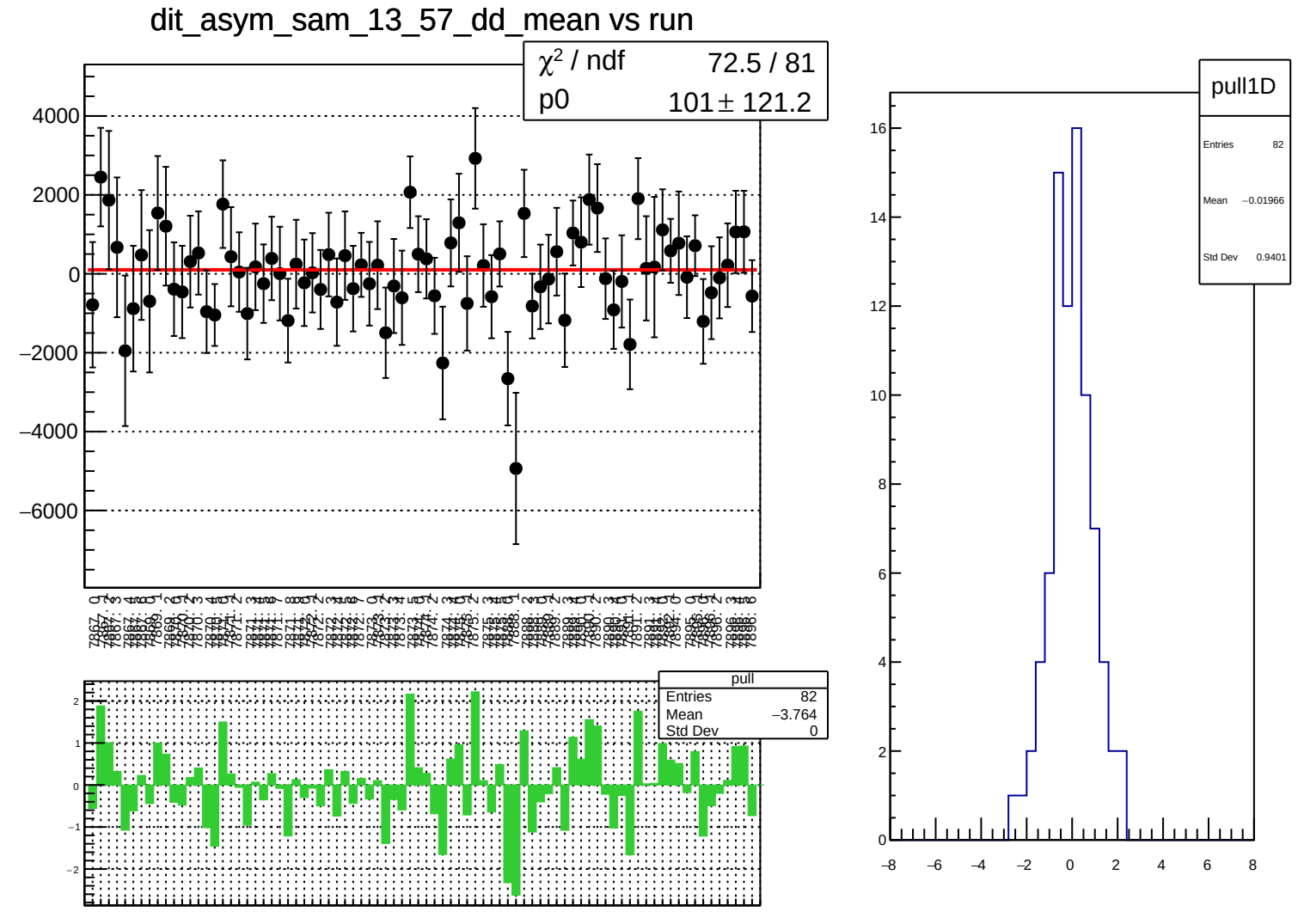

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.324e+04 / 81
p0 800.8 ± 0.6294
1200
1100
1000
900
800
700

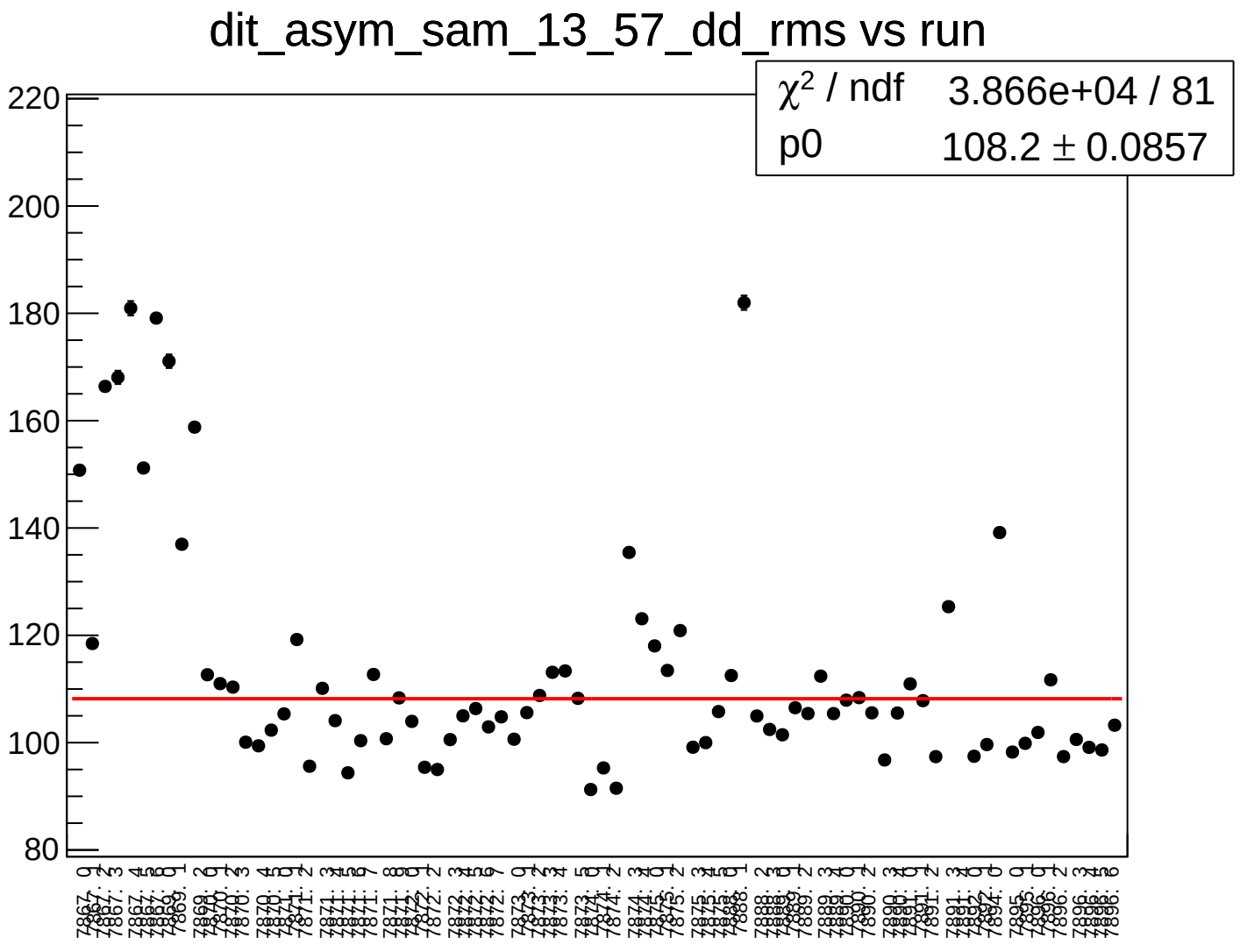

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 61.83 / 81
p0 148.3 ± 113.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −57.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.0194
Std Dev 0.8681
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

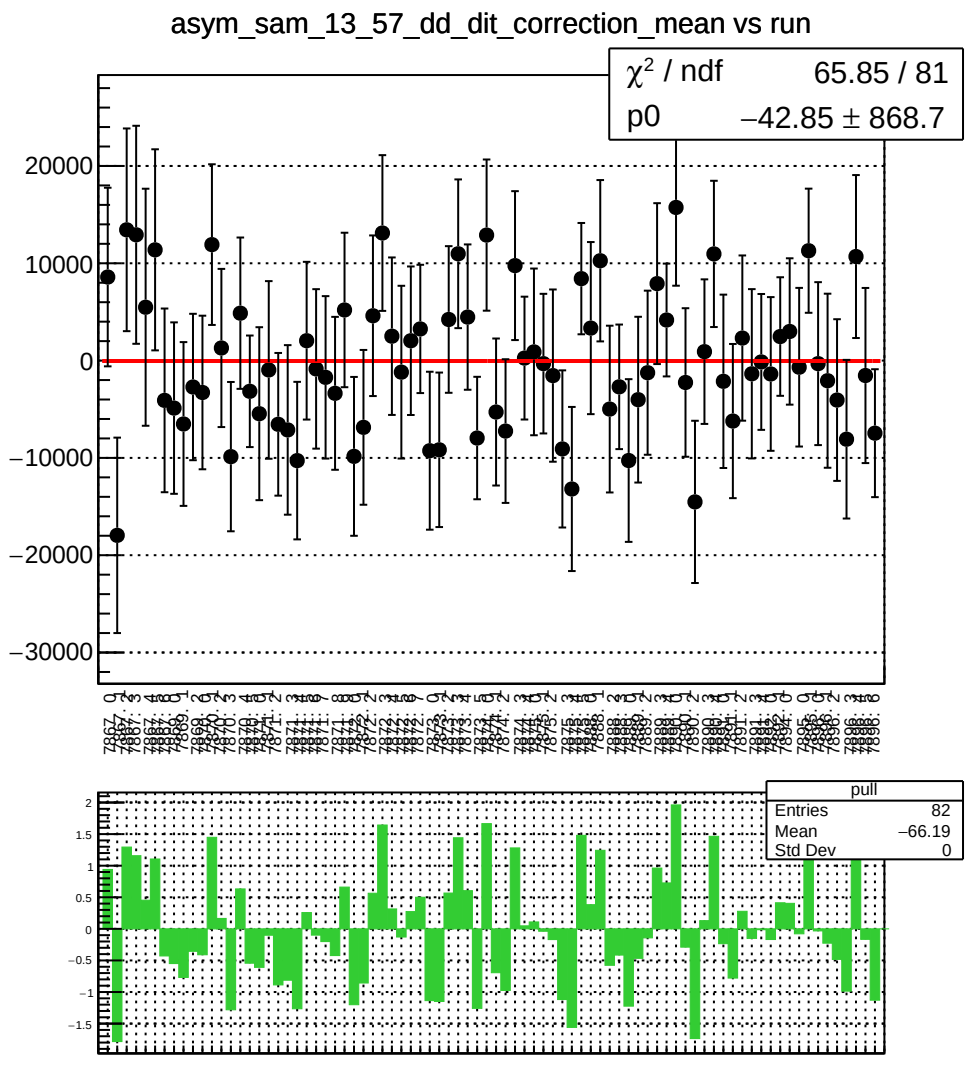

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 3.545e+04 / 81
p0 101.3 ± 0.08014
200
180
160
140
120
100
80

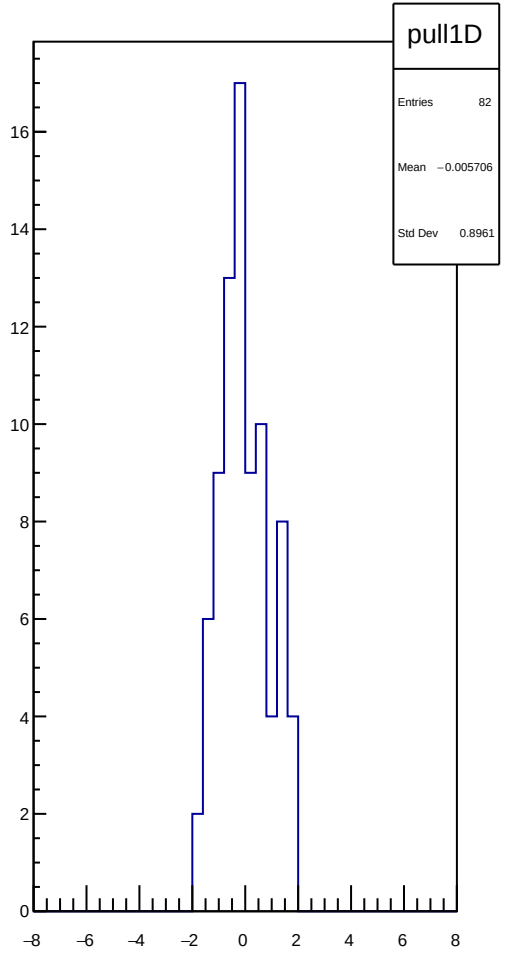

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.48 / 81
p0 −47.95 ± 890.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −261.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.002521
Std Dev 0.9004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

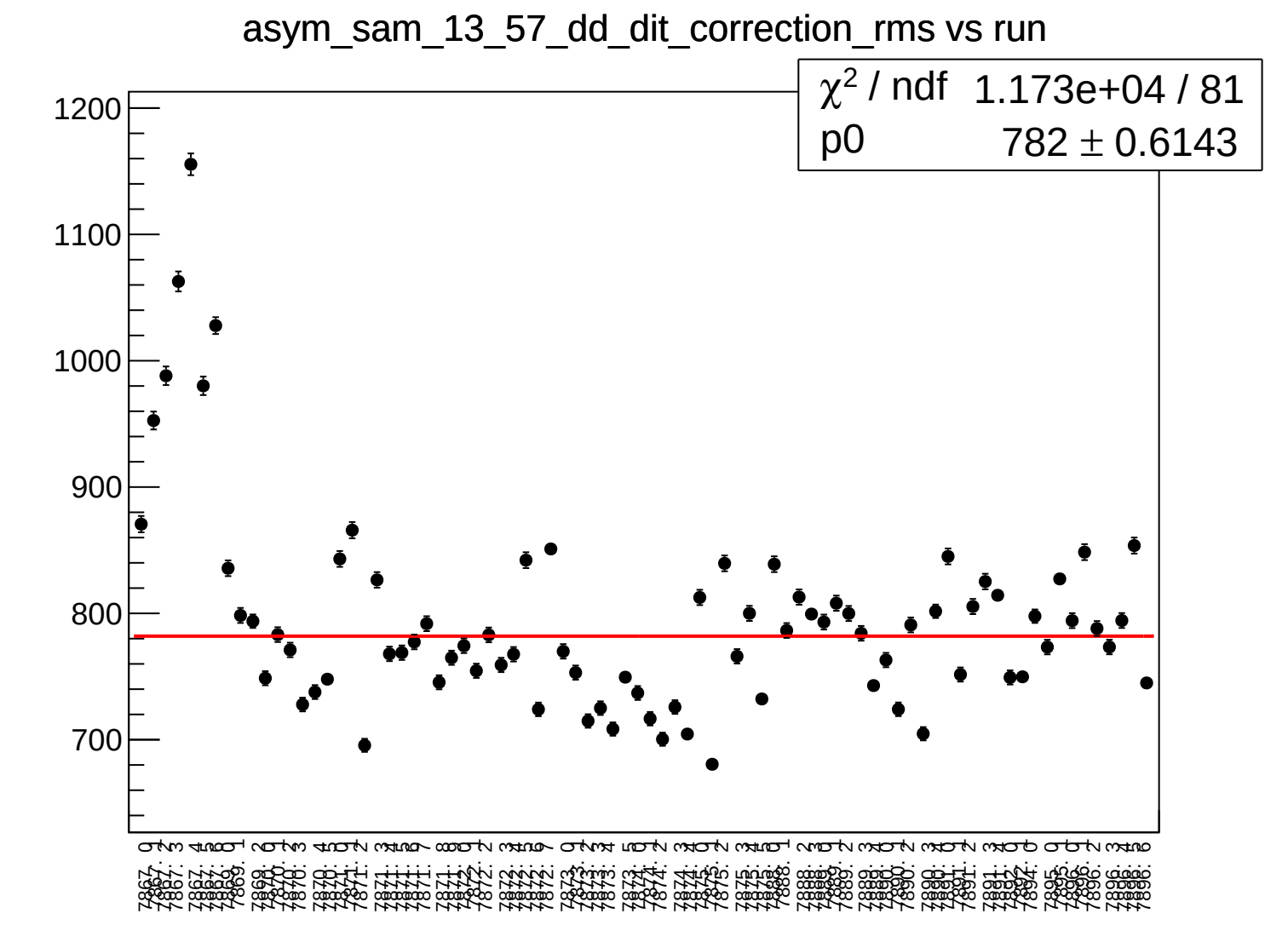

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.324e+04 / 81
p0 800.8 ± 0.6294
1200
1100
1000
900
800
700

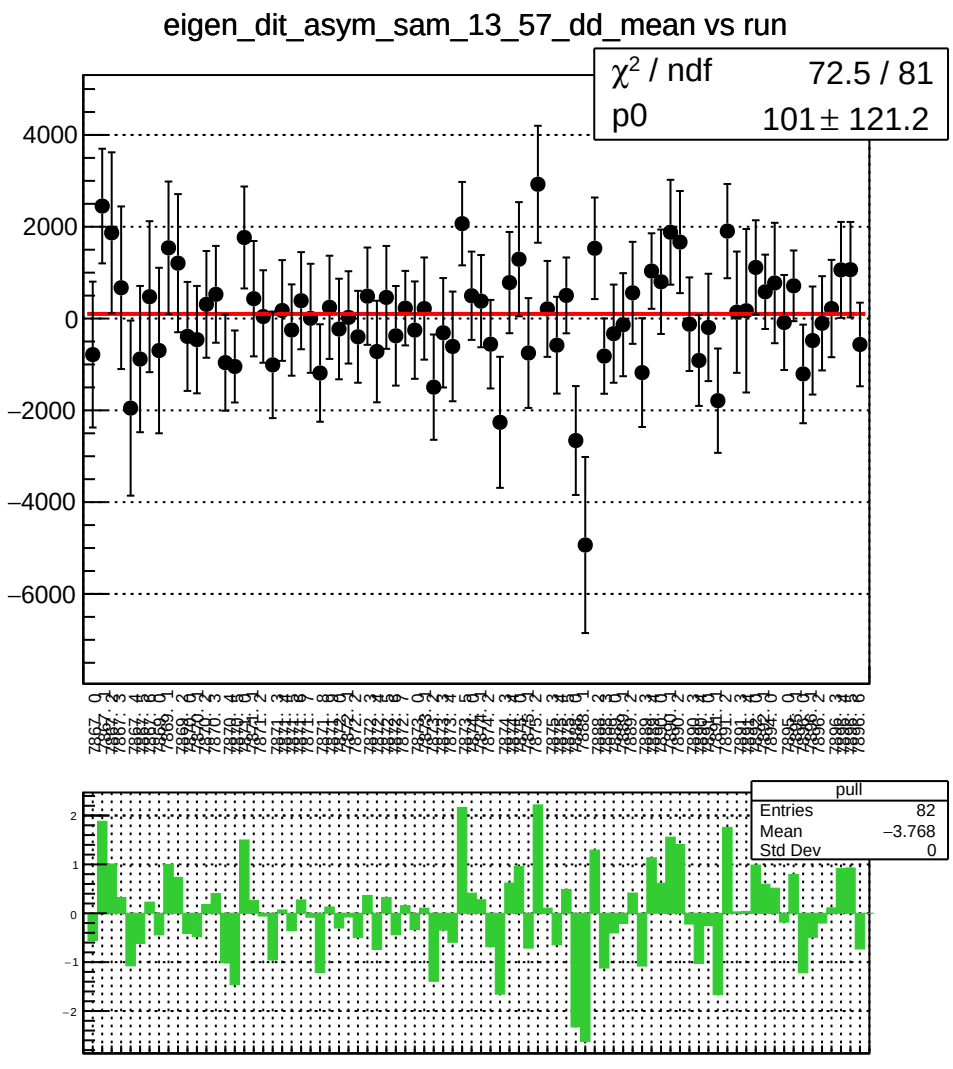

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.5 / 81
p0 101 ± 121.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −3.764
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01966
Std Dev 0.9401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

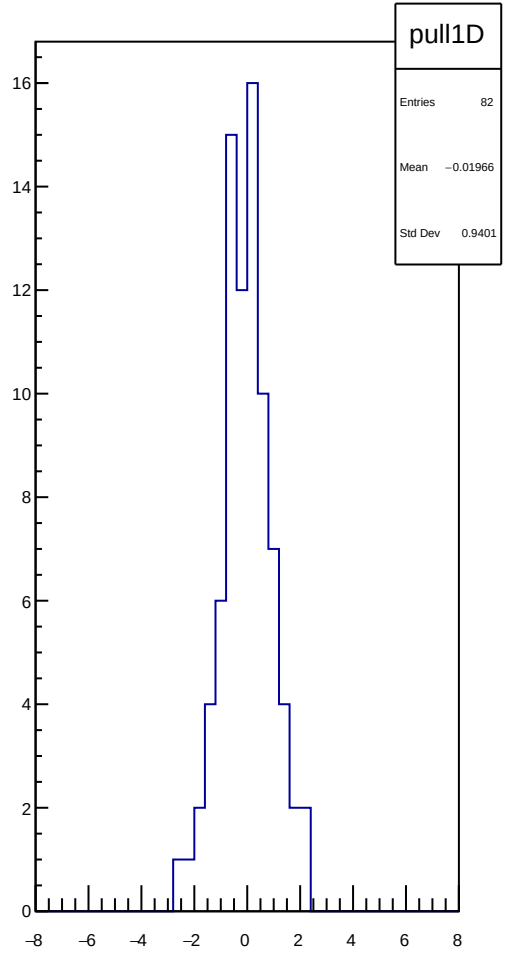

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3.866e+04 / 81
p0 108.2 ± 0.0857
220
200
180
160
140
120
100
80

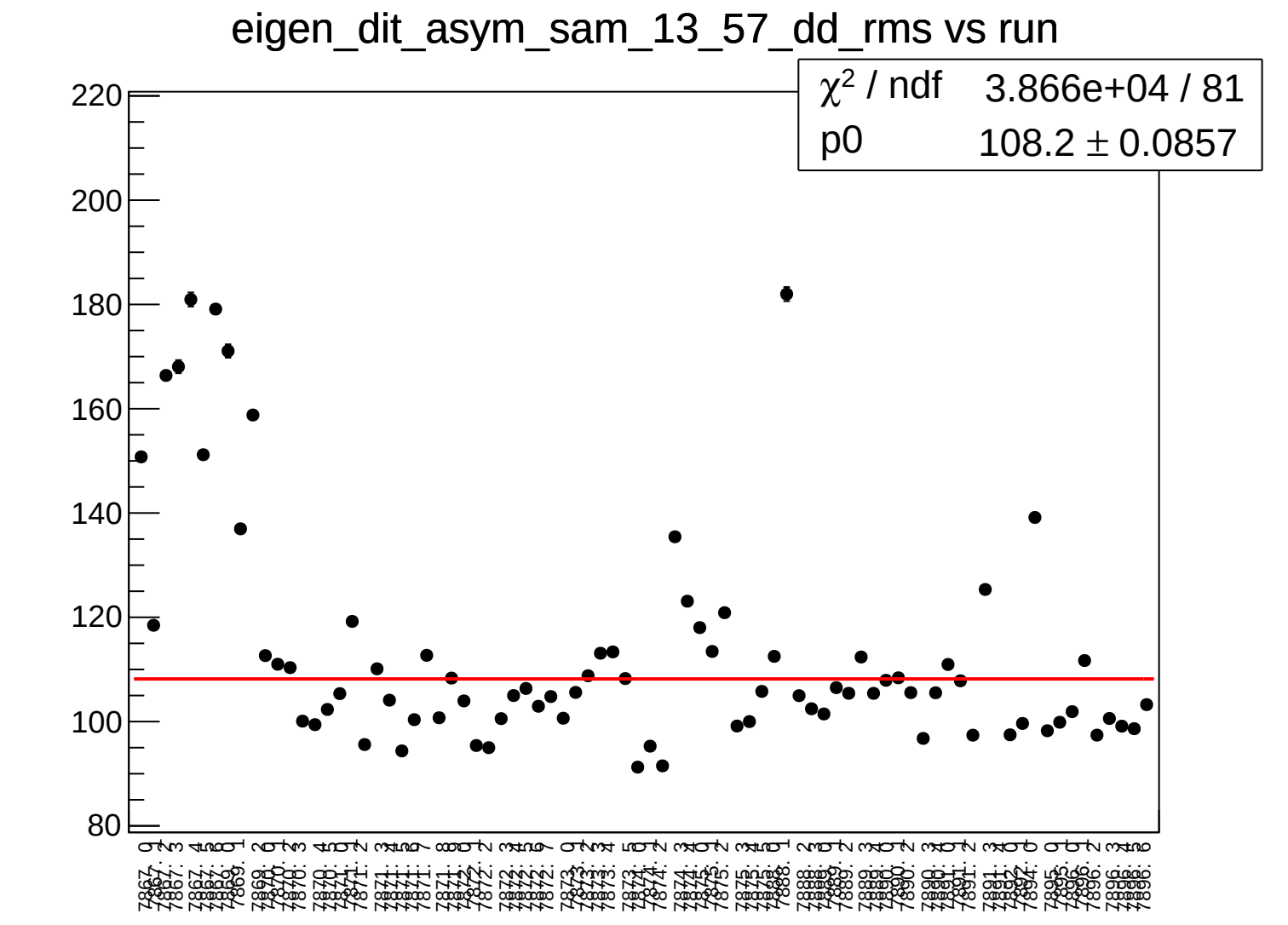

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 65.85 / 81
p0 −42.85 ± 868.7
pull
Entries 82
Mean −66.19
Std Dev 0

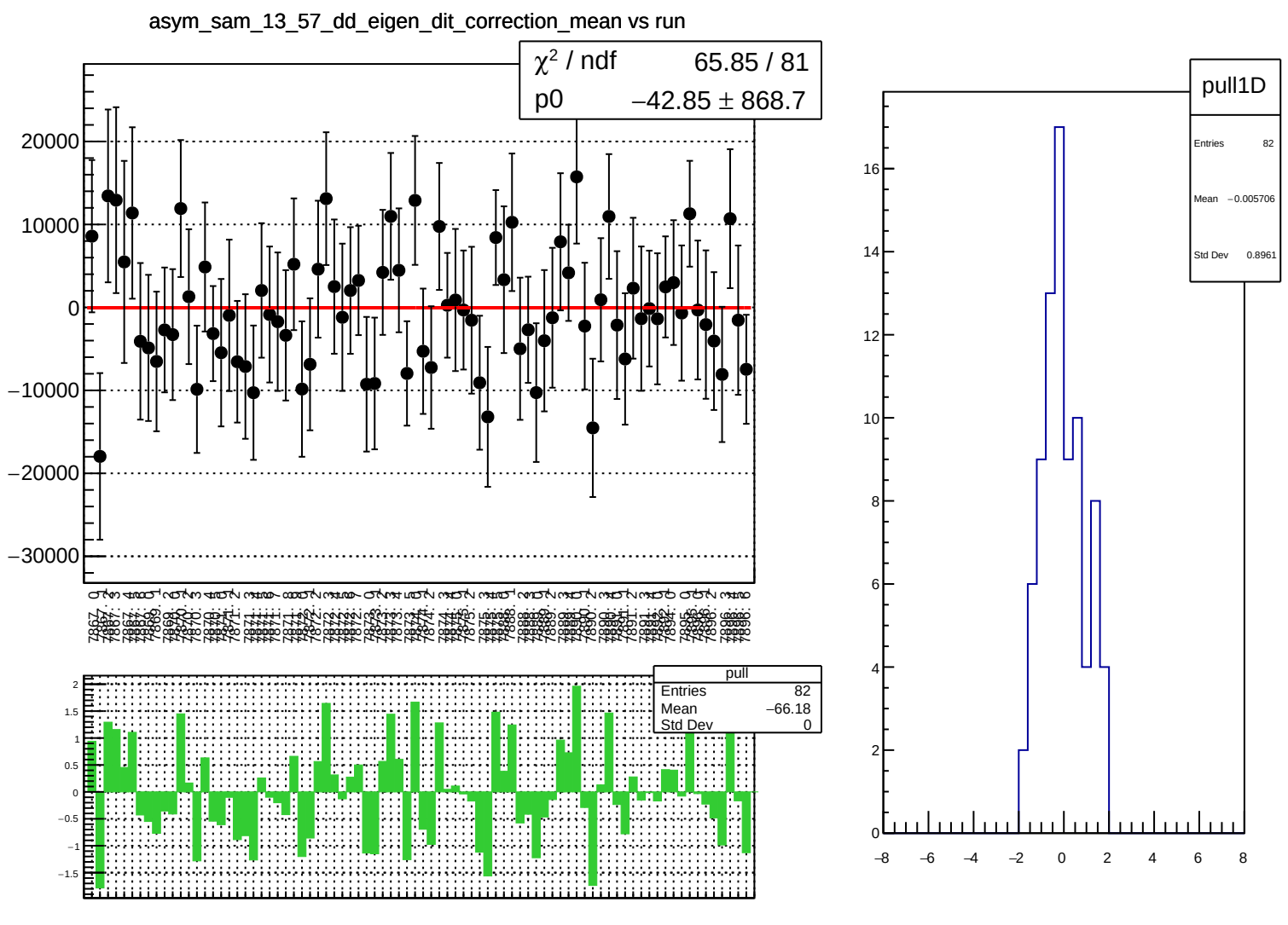

pull1D
Entries 82
Mean −0.005706
Std Dev 0.8961

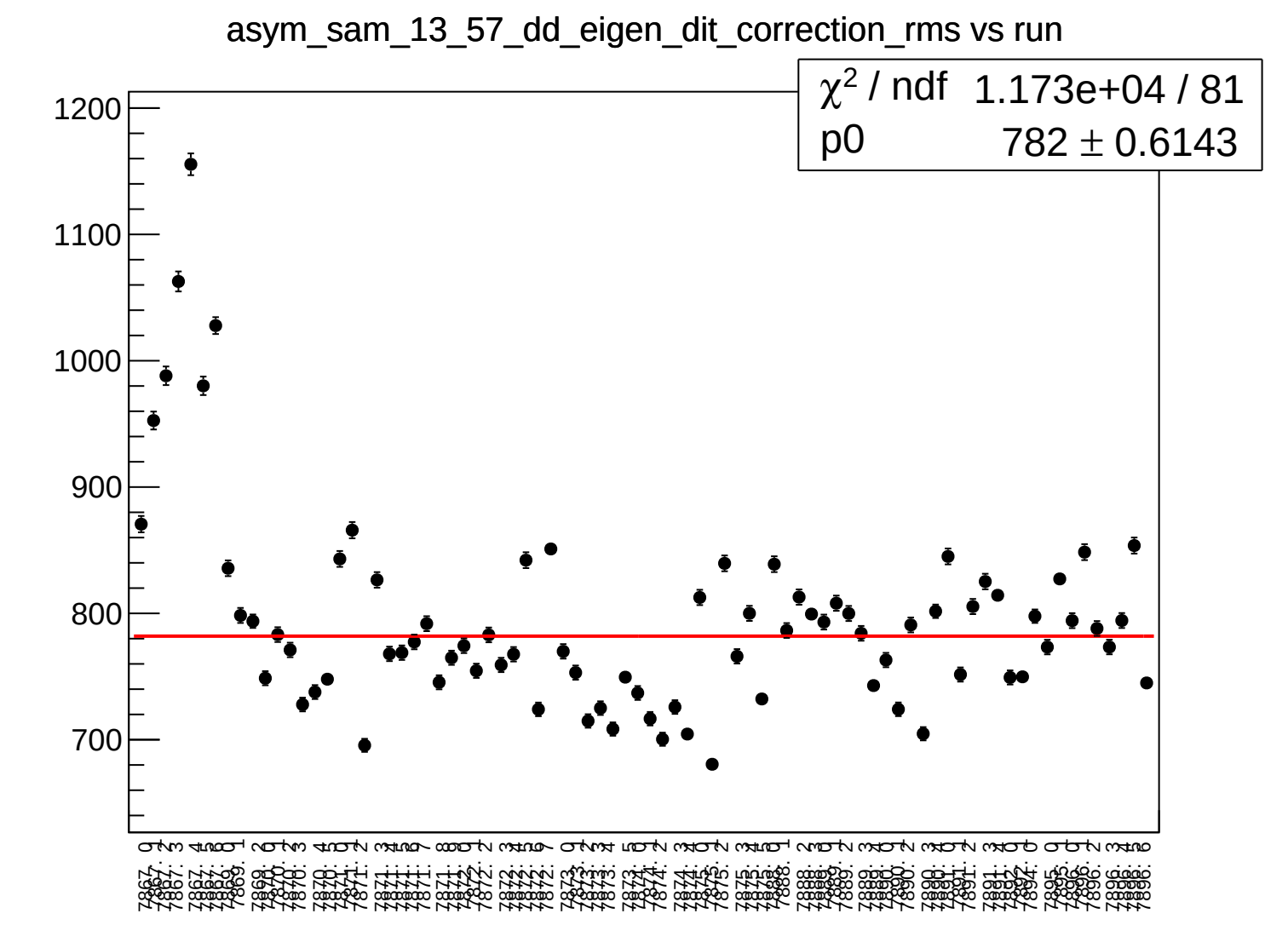

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.173e+04 / 81
p0 782 ± 0.6143
1200
1100
1000
900
800
700

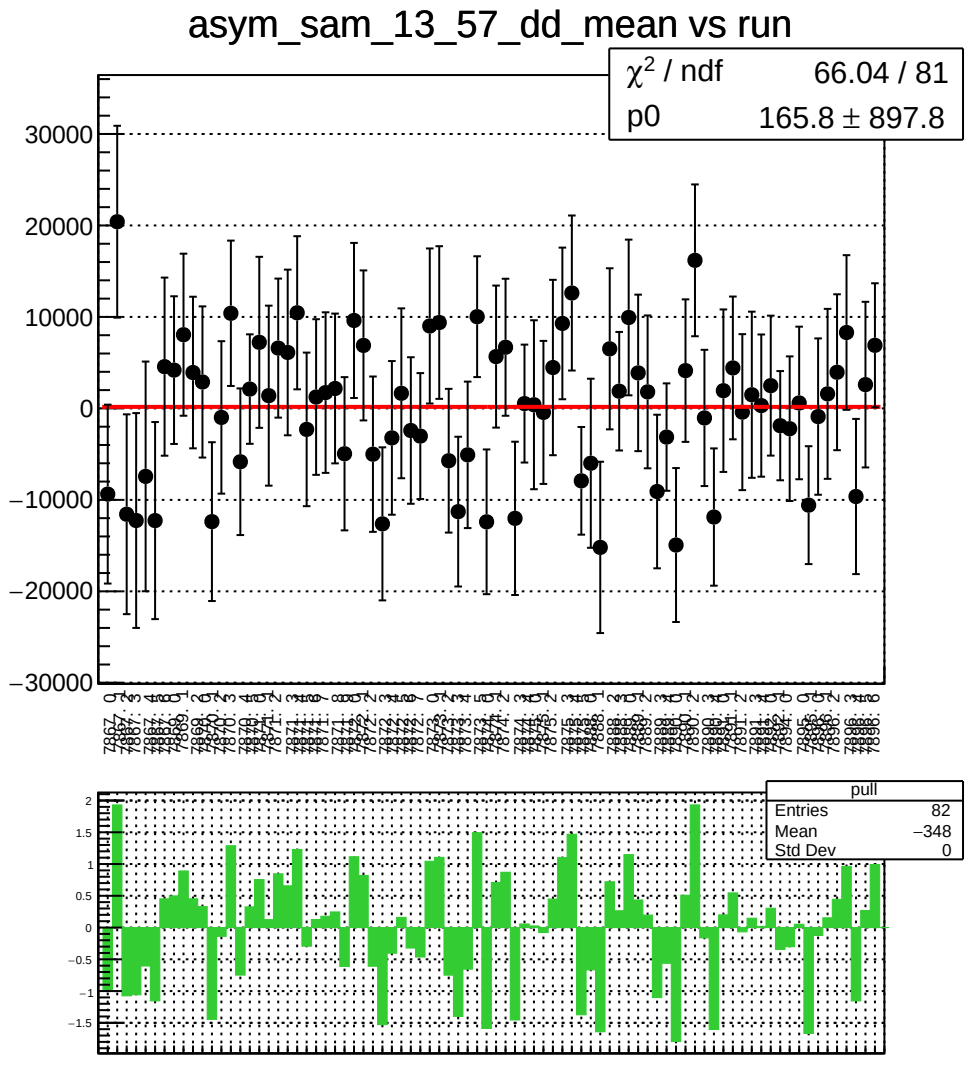

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.5 / 81
p0 101 ± 121.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −3.768
Std Dev 0
2
1
0
−1
−2

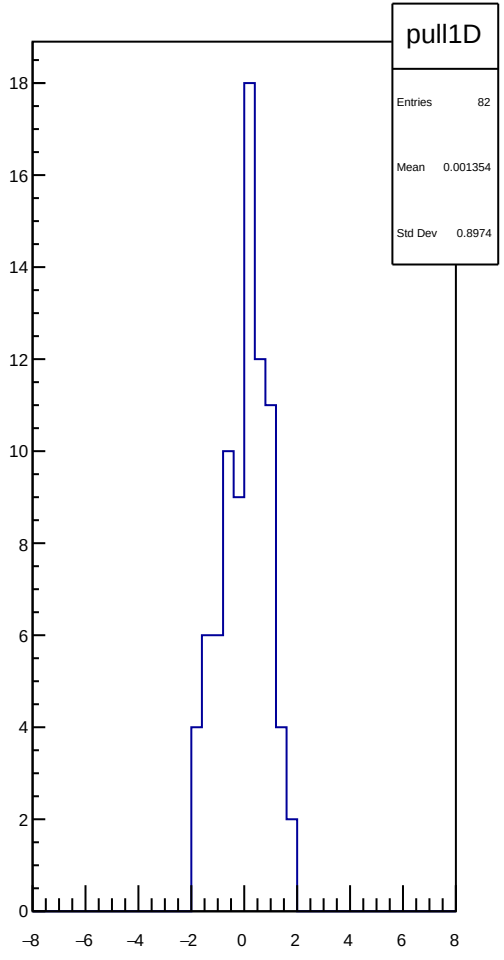

pull1D
Entries 82
Mean −0.01966
Std Dev 0.9401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

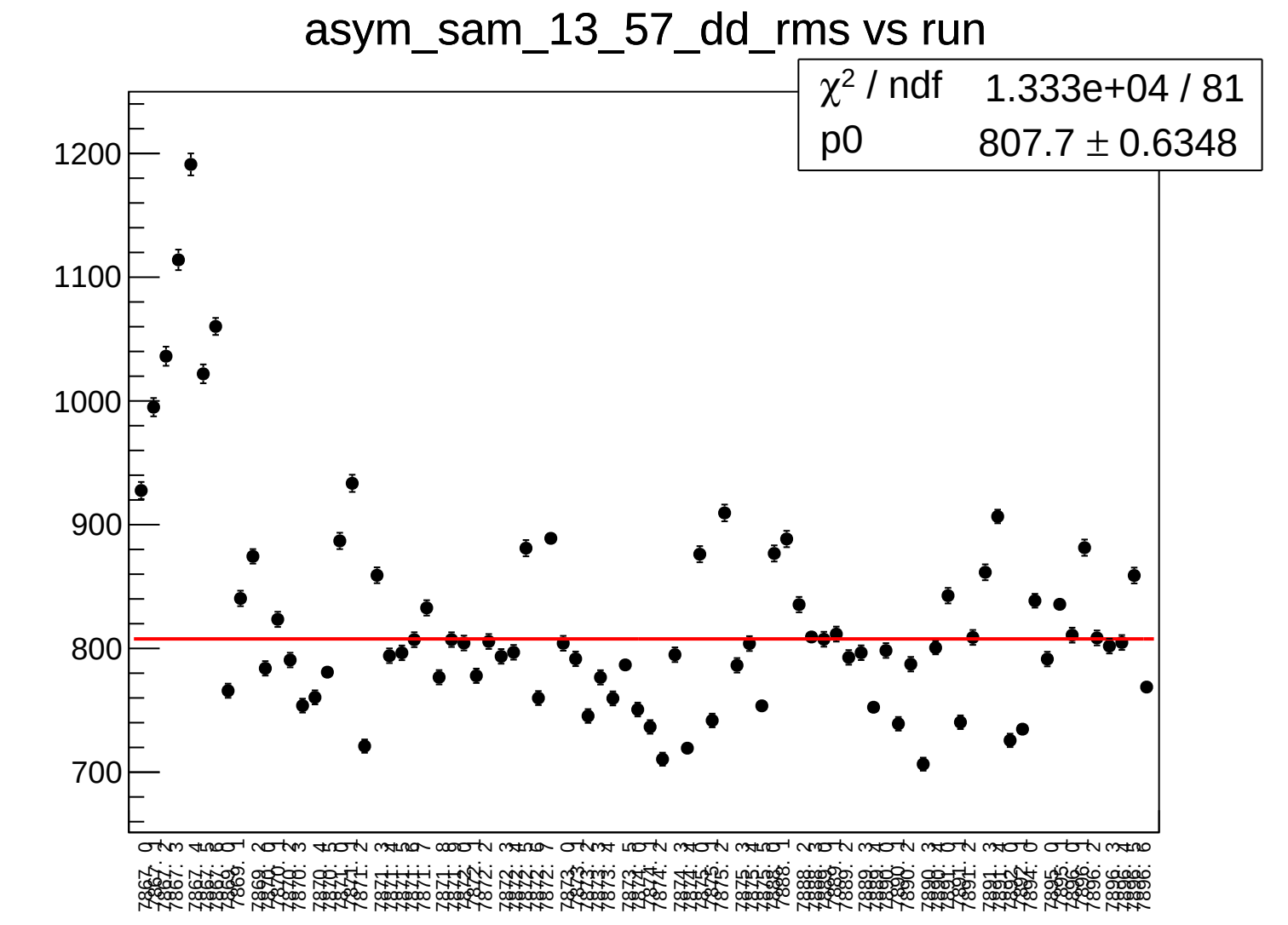

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3.866e+04 / 81
p0 108.2 ± 0.0857
220
200
180
160
140
120
100
80

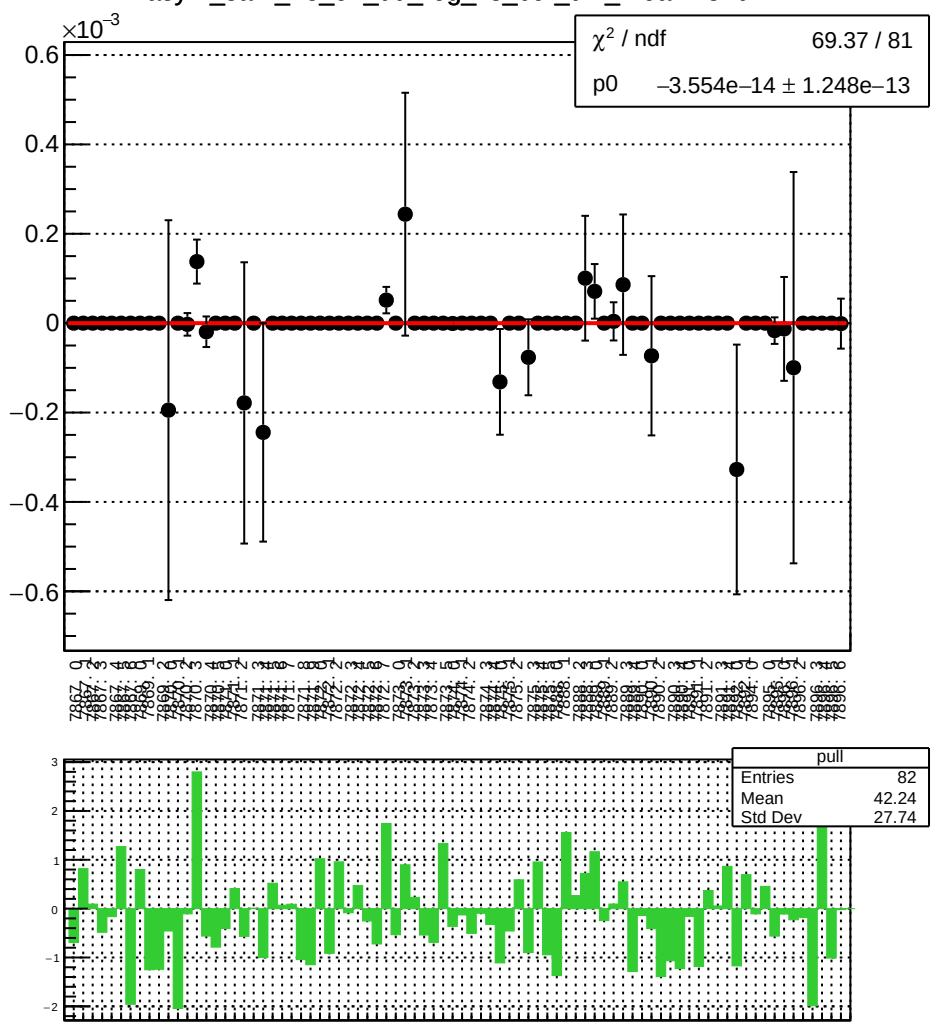

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.85 / 81
p0 −42.85 ± 868.7
pull
Entries 82
Mean −66.18
Std Dev 0
pull1D
Entries 82
Mean −0.005706
Std Dev 0.8961

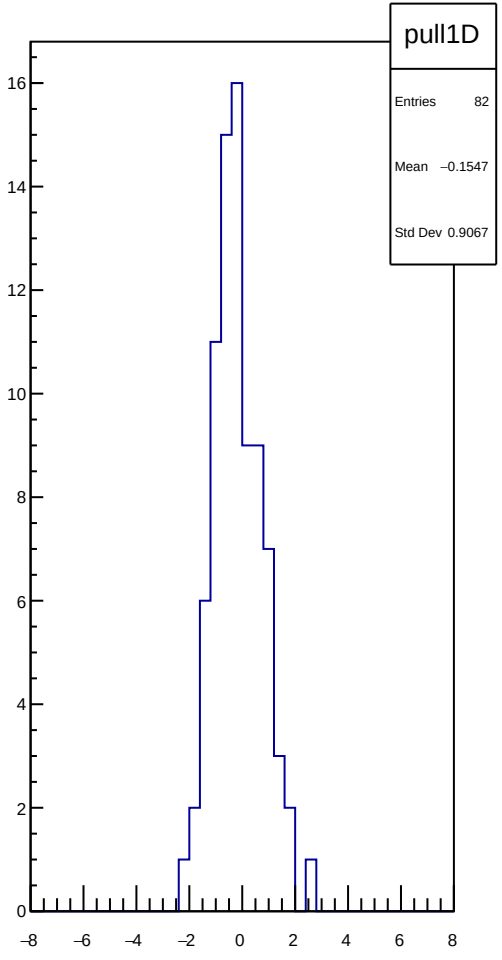

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.173e+04 / 81
p0 782 ± 0.6143
1200
1100
1000
900
800
700

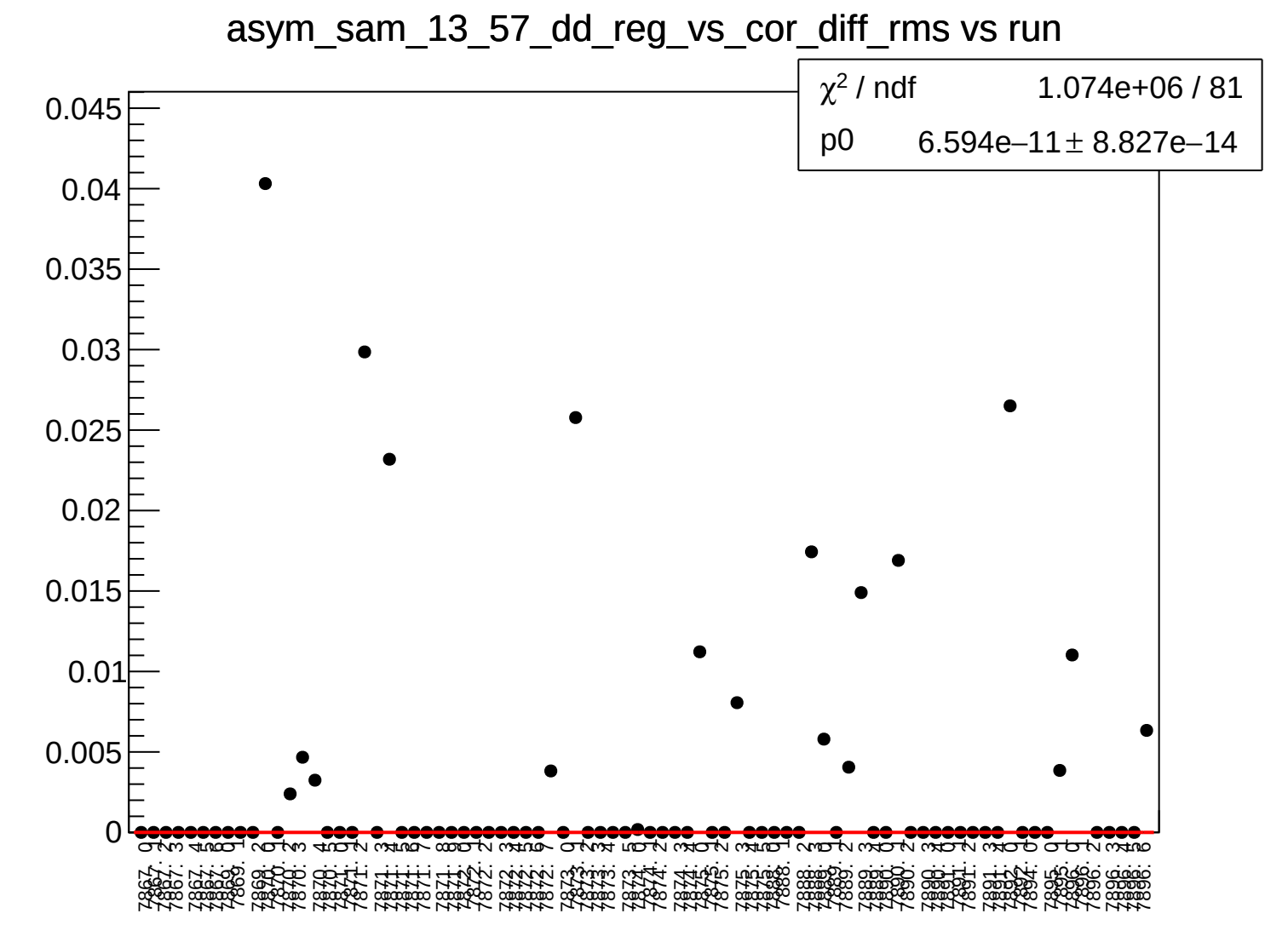

asym_sam_13_57_dd_mean vs run
χ² / ndf 66.04 / 81
p0 165.8 ± 897.8
pull
Entries 82
Mean −348
Std Dev 0

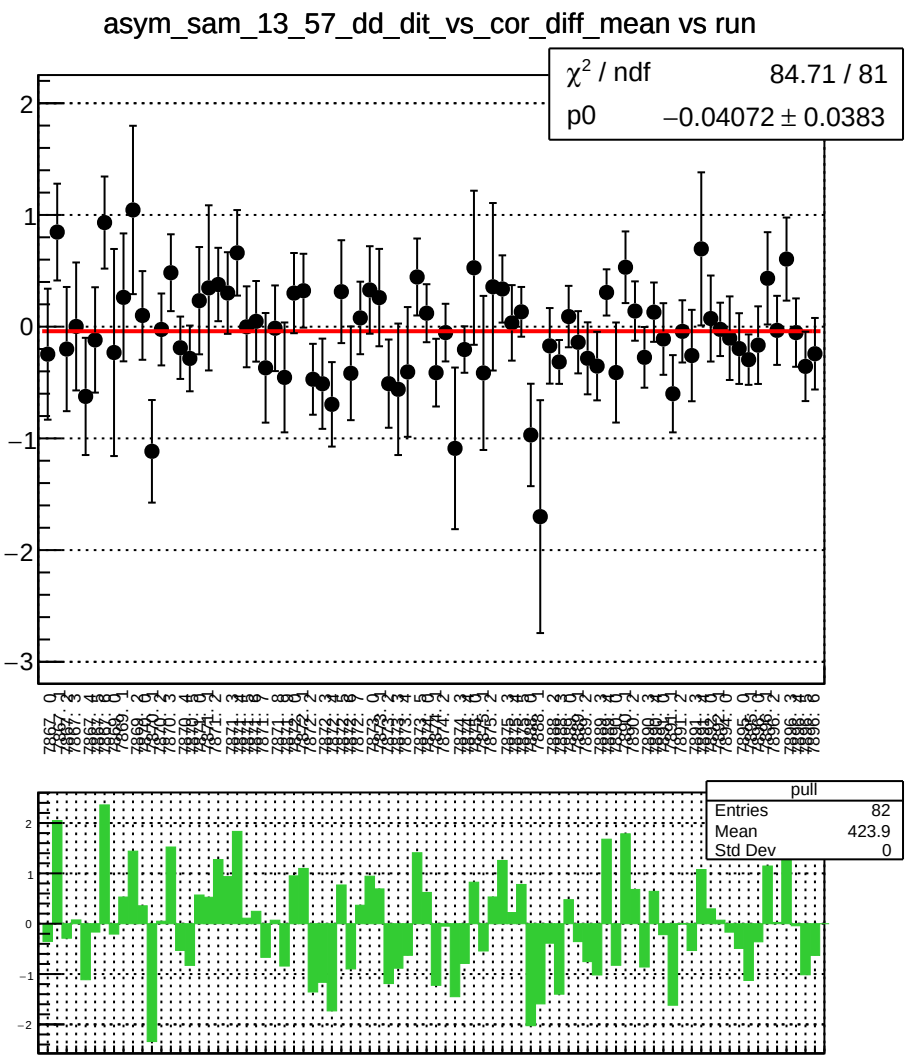

pull1D
Entries 82
Mean 0.001354
Std Dev 0.8974

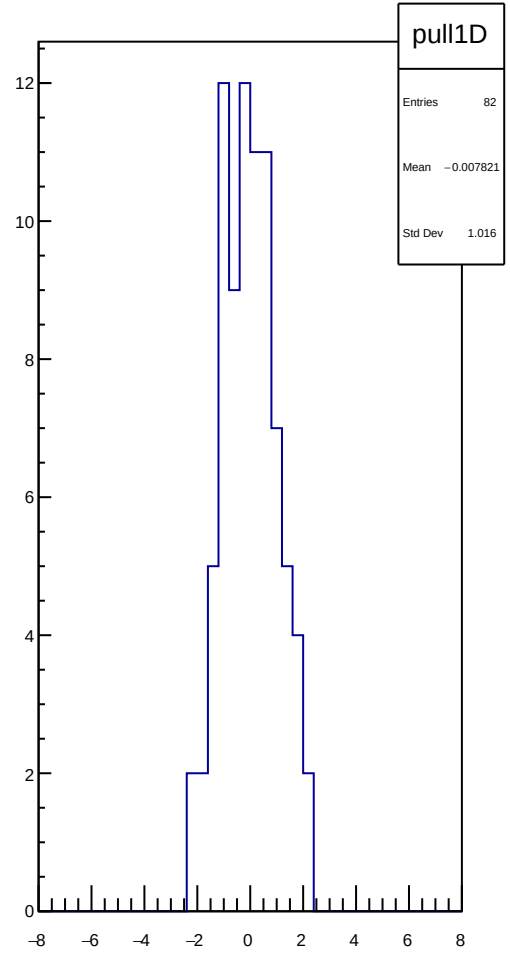

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.333e+04 / 81
p0 807.7 ± 0.6348
1200
1100
1000
900
800
700

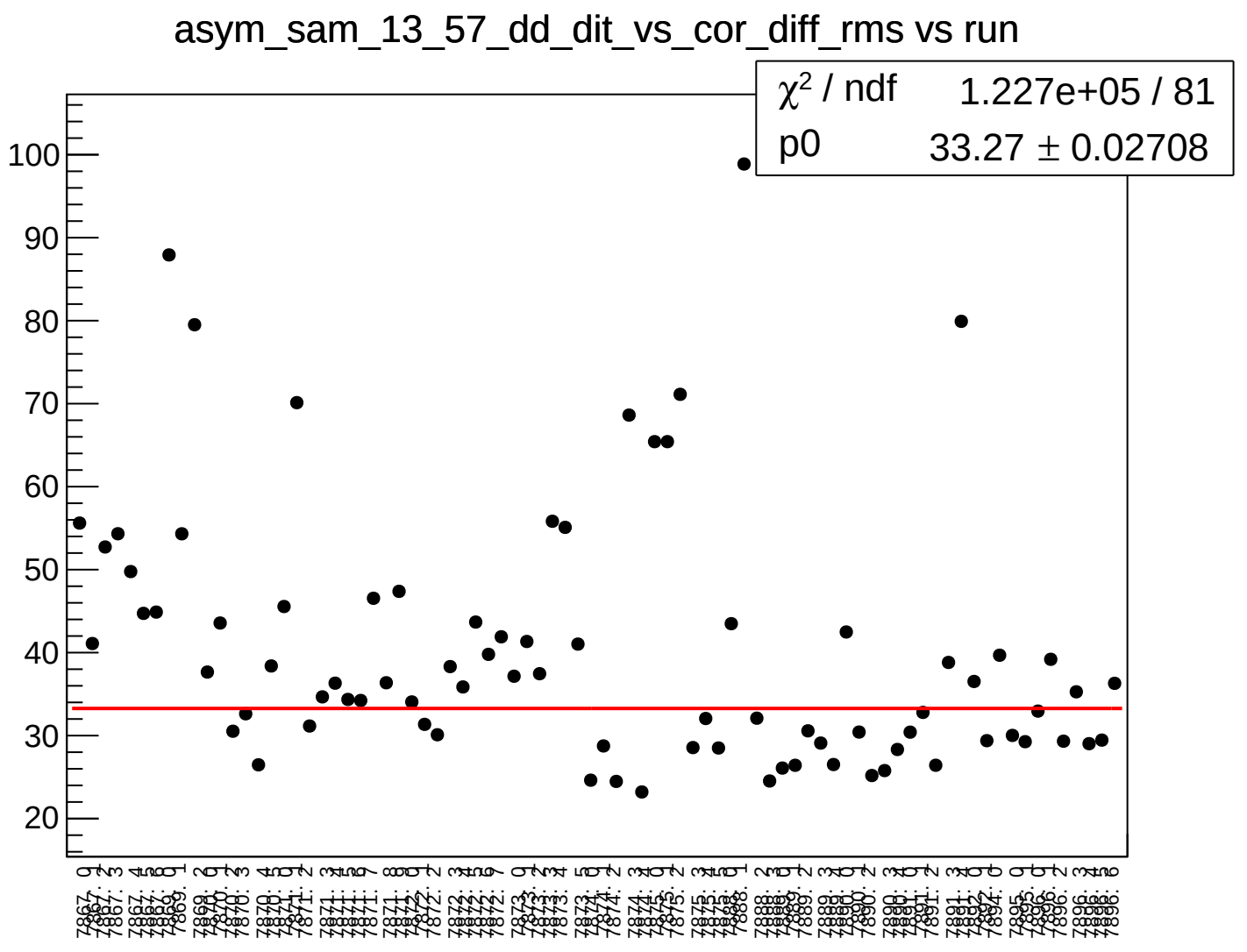

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 69.37 / 81
p0 −3.554e−14 ± 1.248e−13
pull
Entries 82
Mean 42.24
Std Dev 27.74

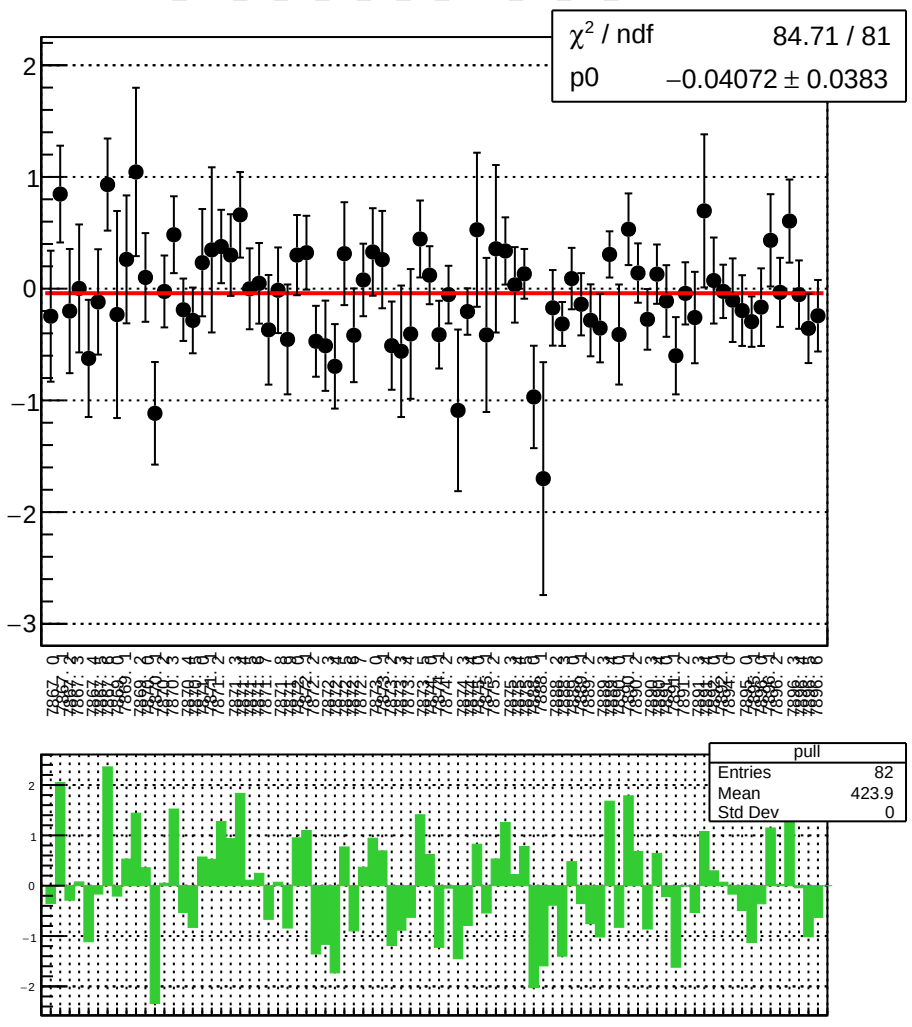

pull1D
Entries 82
Mean −0.1547
Std Dev 0.9067

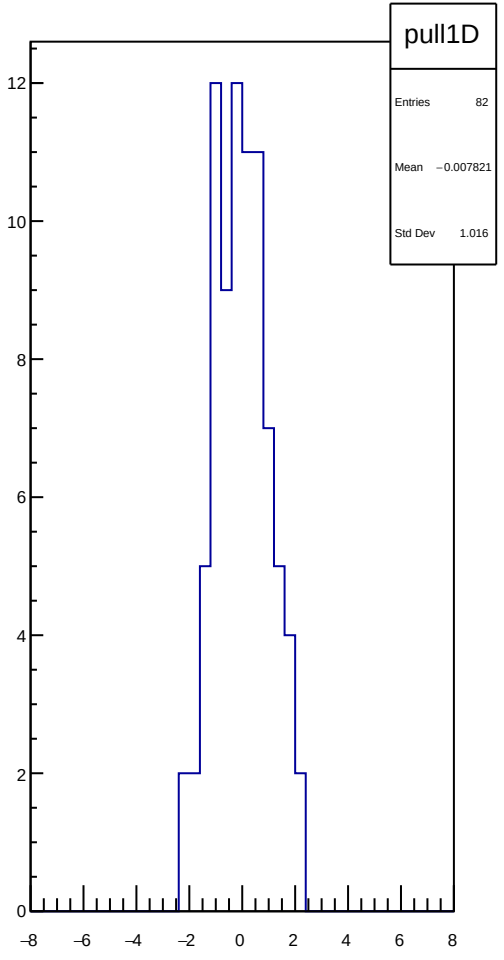

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 81
p0 6.594e−11 ± 8.827e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

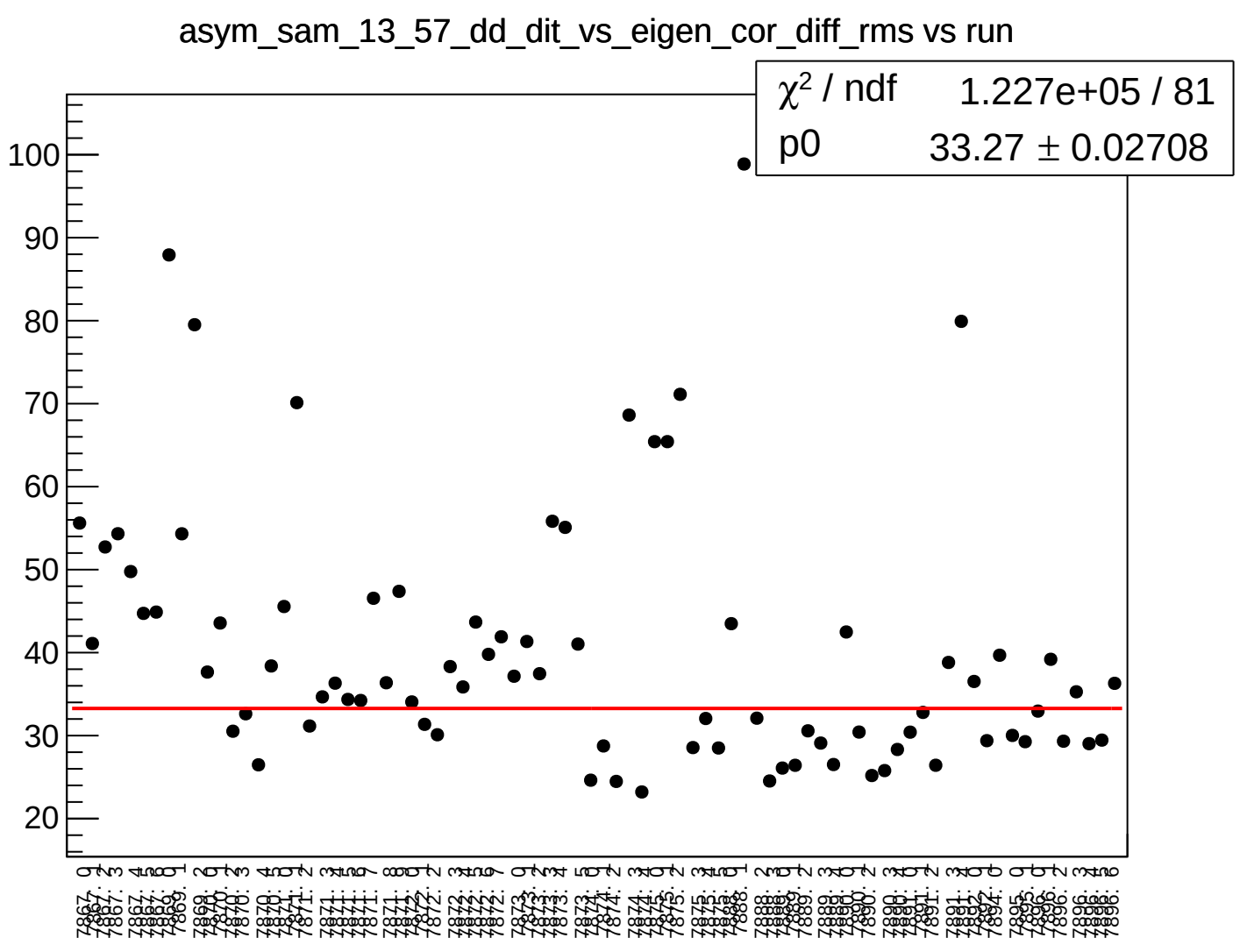

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.71 / 81
p0 −0.04072 ± 0.0383
pull
Entries 82
Mean 423.9
Std Dev 0

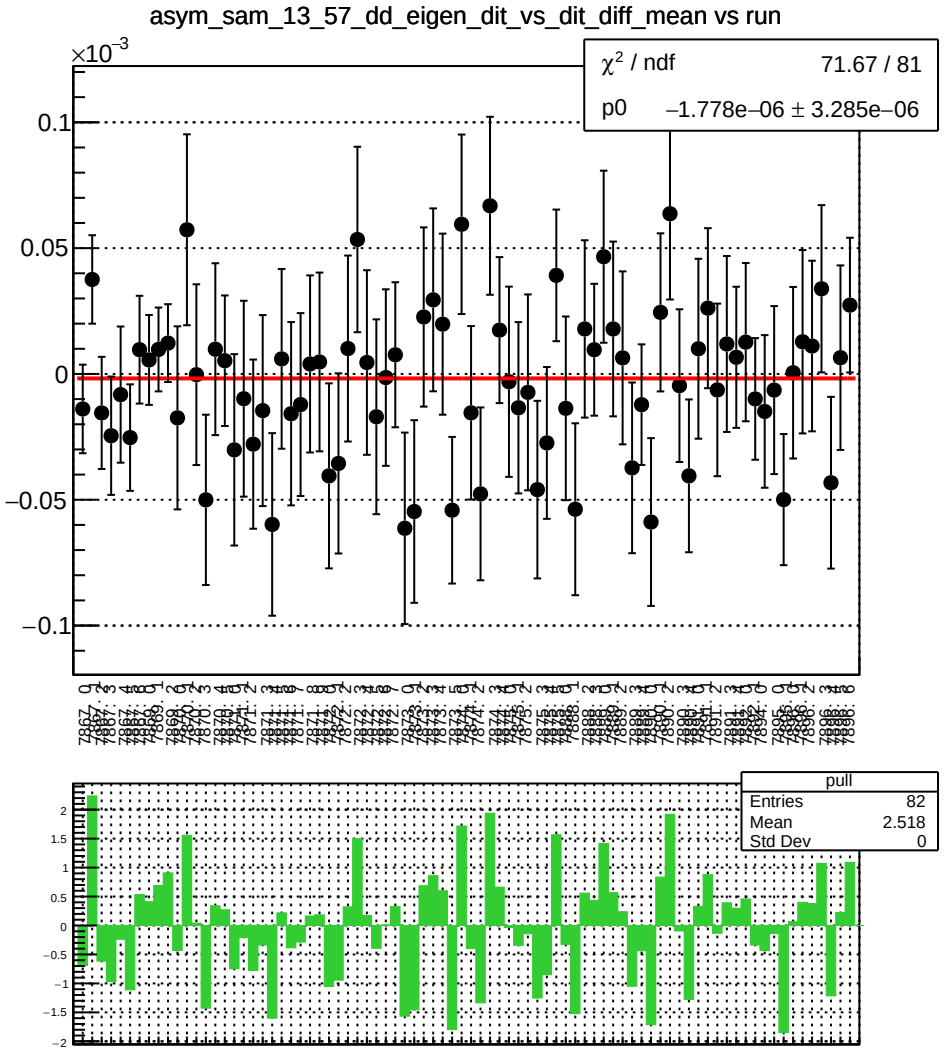

pull1D
Entries 82
Mean −0.007821
Std Dev 1.016

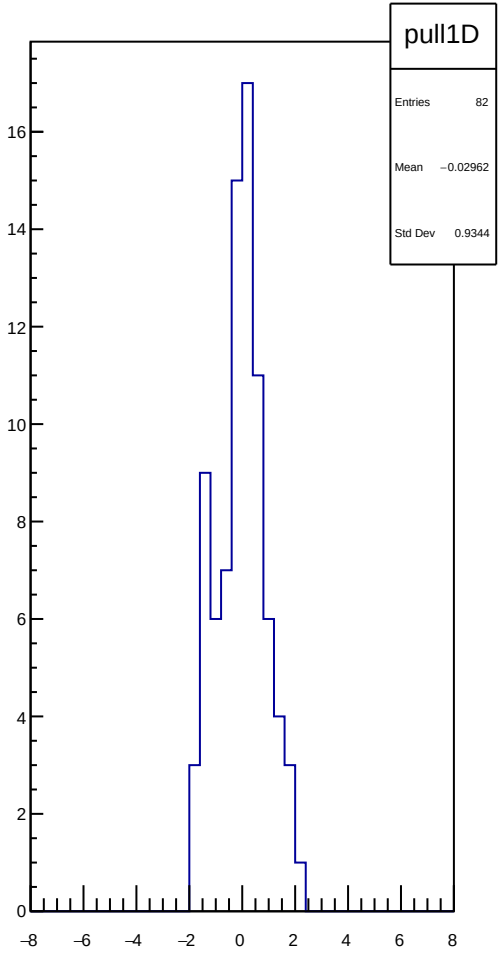

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.227e+05 / 81
p0 33.27 ± 0.02708
100
90
80
70
60
50
40
30
20

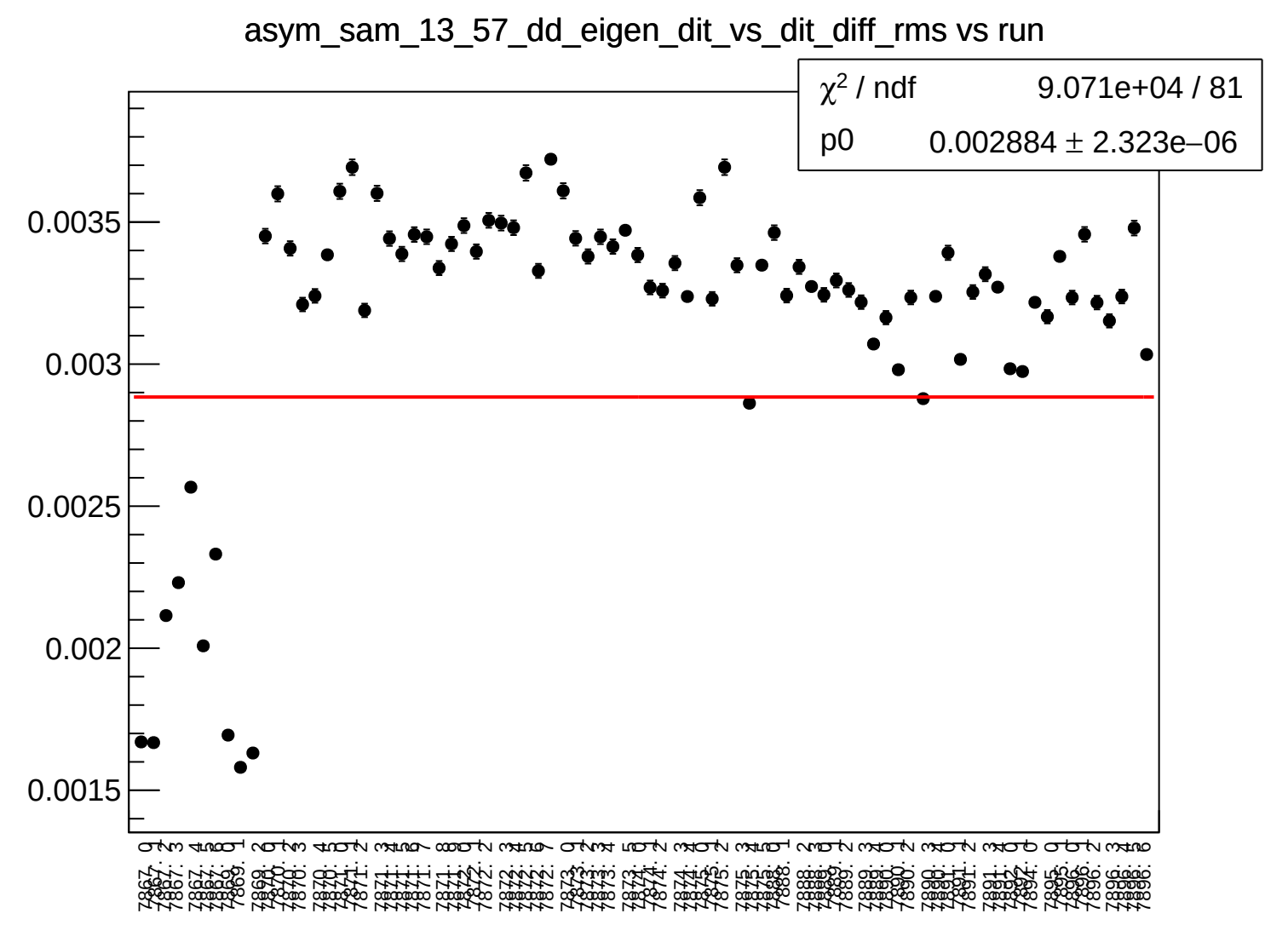

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.71 / 81
p0 −0.04072 ± 0.0383
pull
Entries 82
Mean 423.9
Std Dev 0

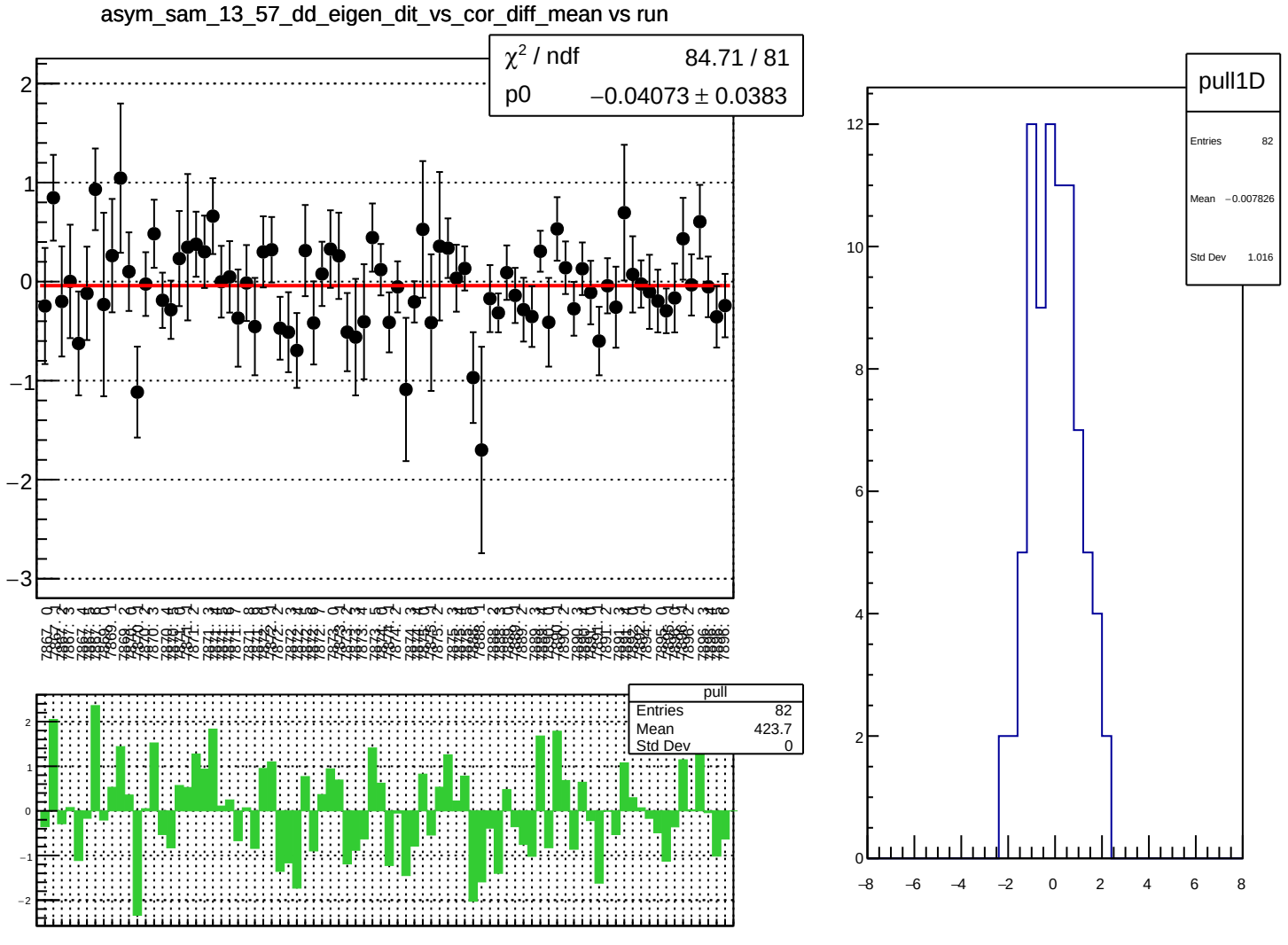

pull1D
Entries 82
Mean −0.007821
Std Dev 1.016

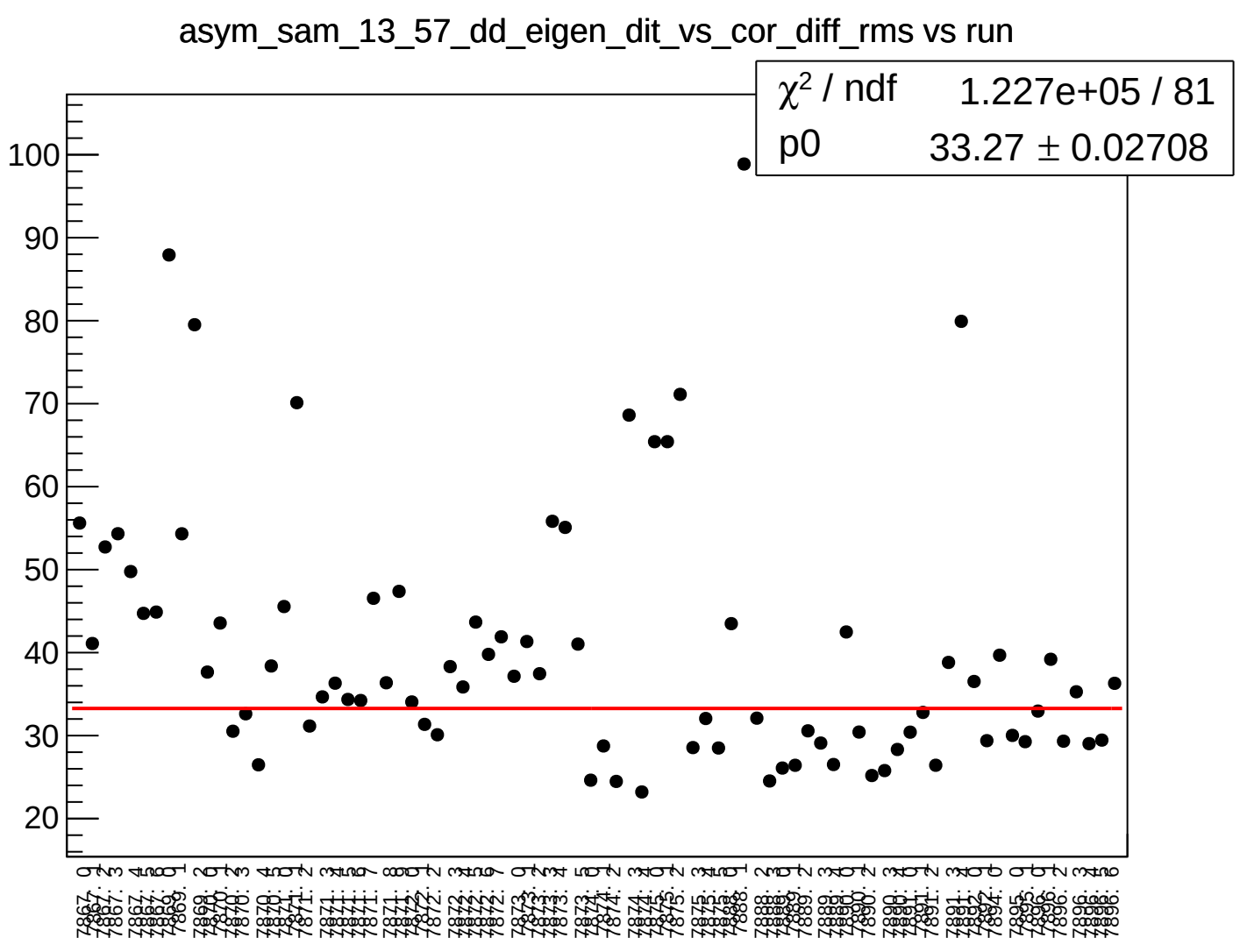

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.227e+05 / 81
p0 33.27 ± 0.02708
100
90
80
70
60
50
40
30
20

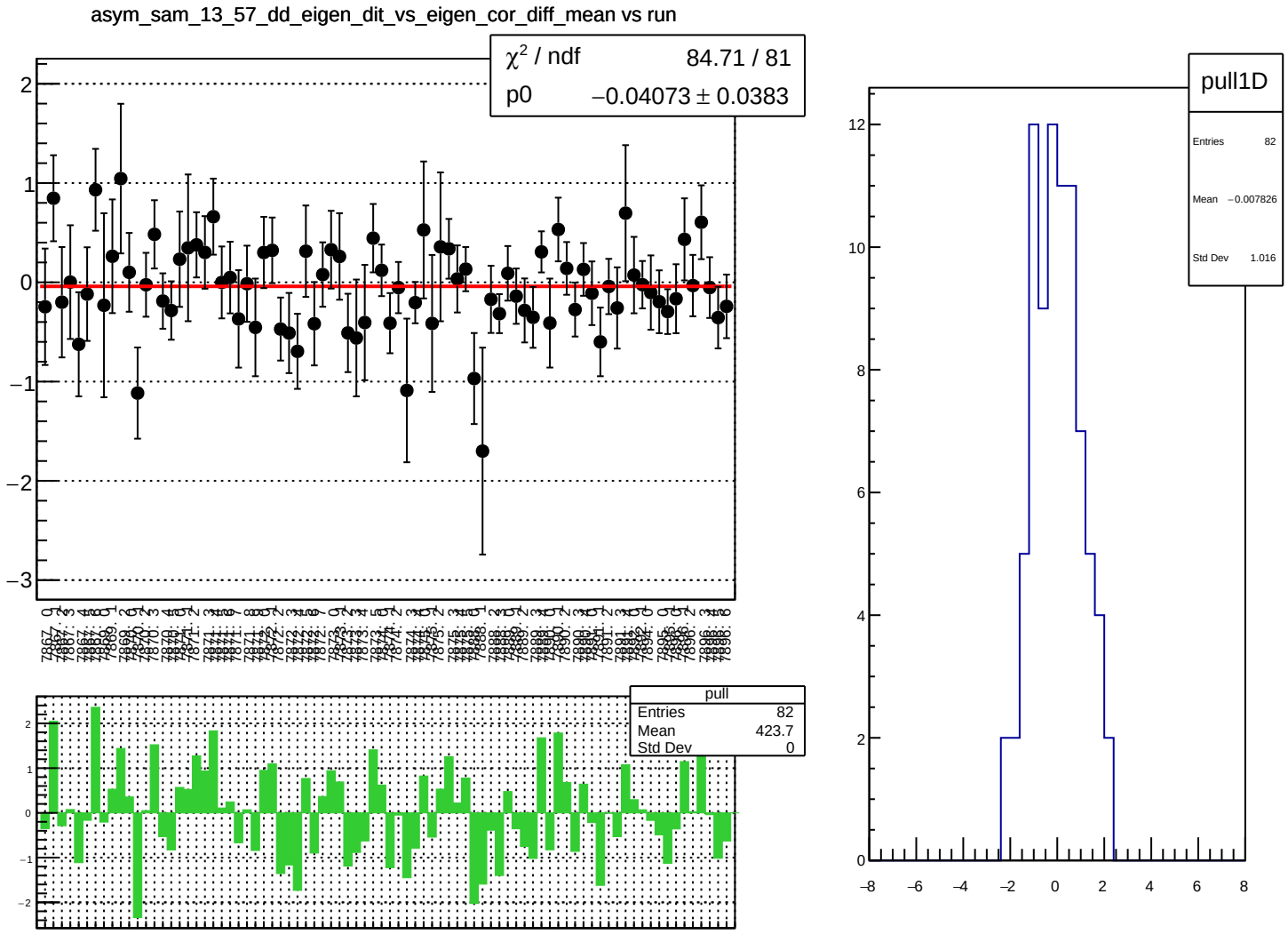

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.67 / 81
p0 −1.778e−06 ± 3.285e−06
pull
Entries 82
Mean 2.518
Std Dev 0

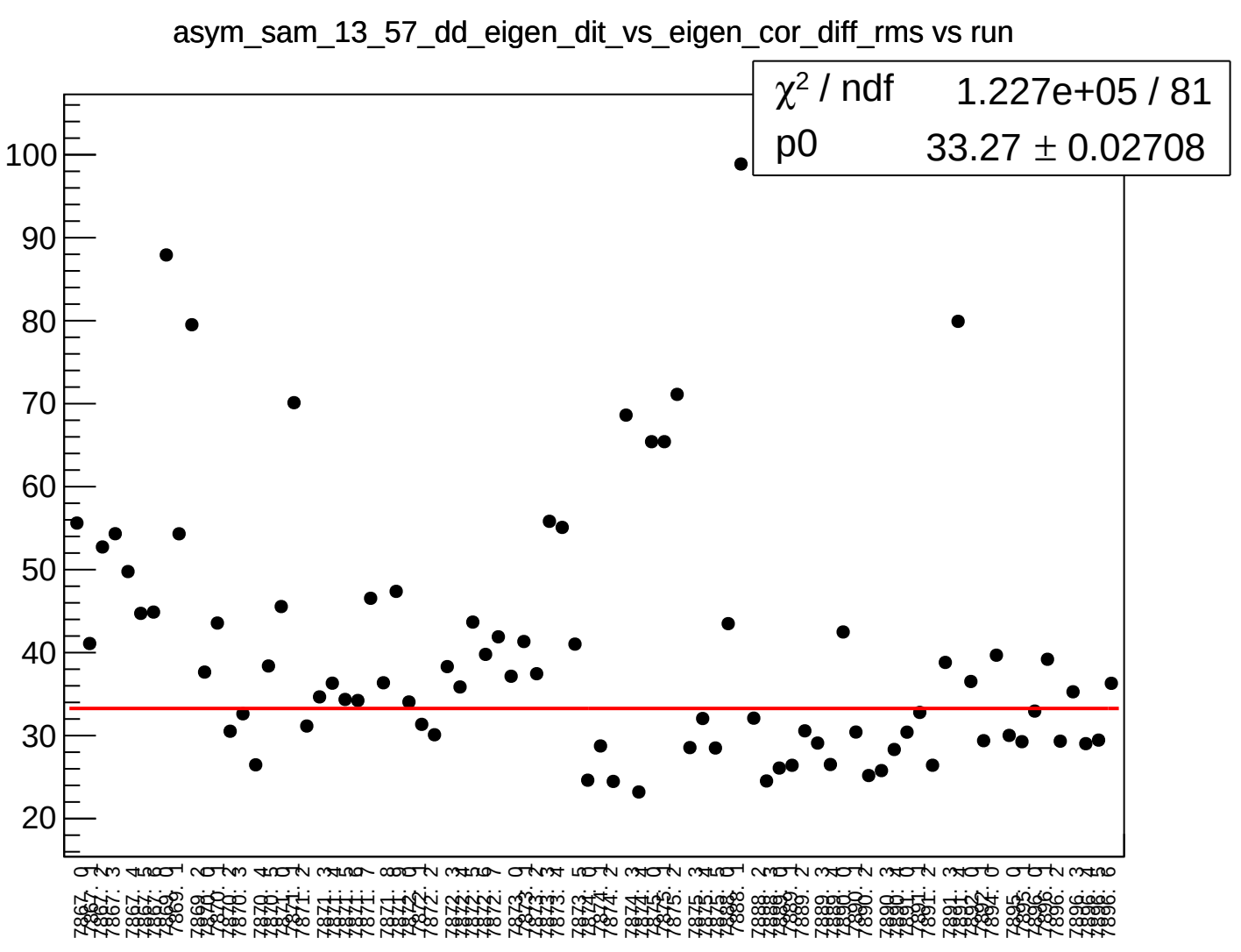

pull1D
Entries 82
Mean −0.02962
Std Dev 0.9344

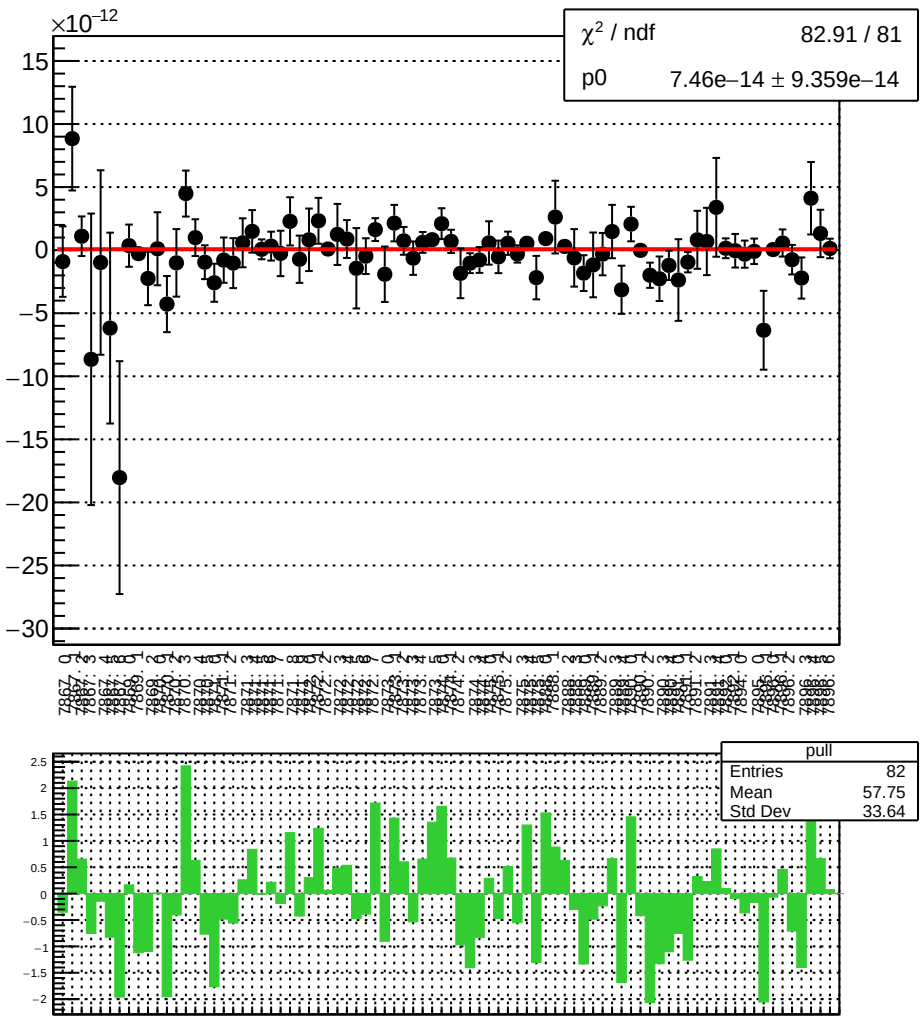

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.071e+04 / 81
p0 0.002884 ± 2.323e−06
0.0035
0.003
0.0025
0.002
0.0015

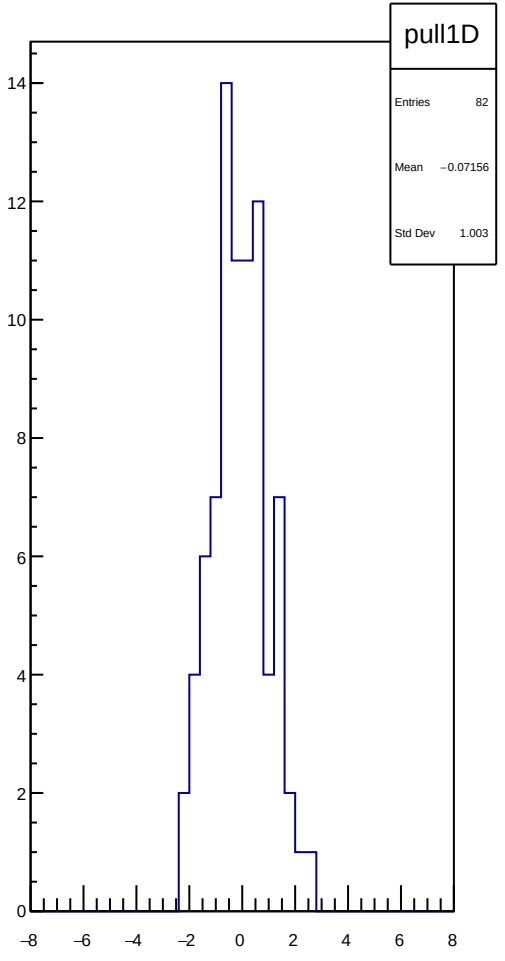

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.71 / 81
p0 −0.04073 ± 0.0383
pull
Entries 82
Mean 423.7
Std Dev 0
pull1D
Entries 82
Mean −0.007826
Std Dev 1.016

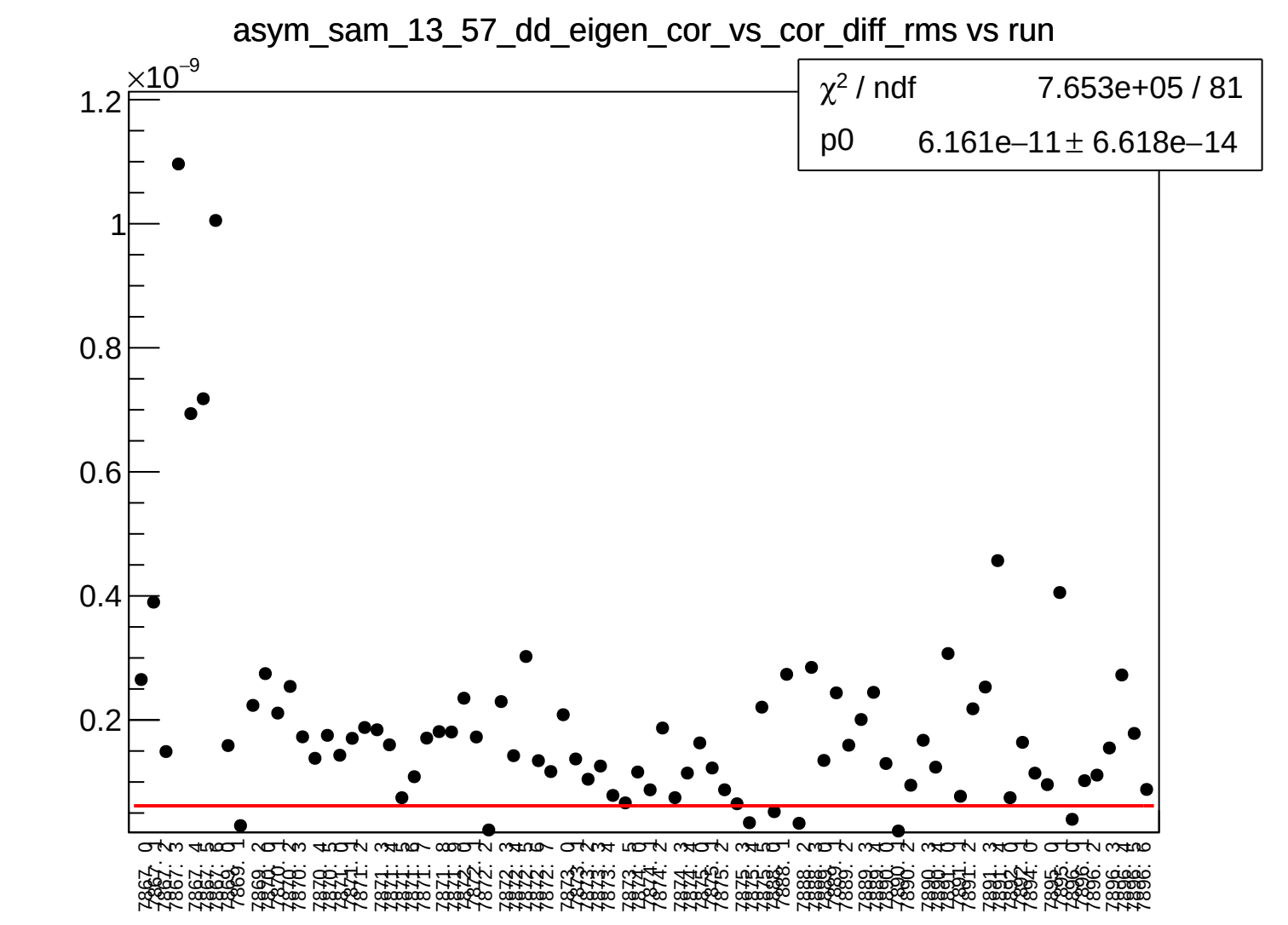

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.227e+05 / 81
p0 33.27 ± 0.02708
100
90
80
70
60
50
40
30
20

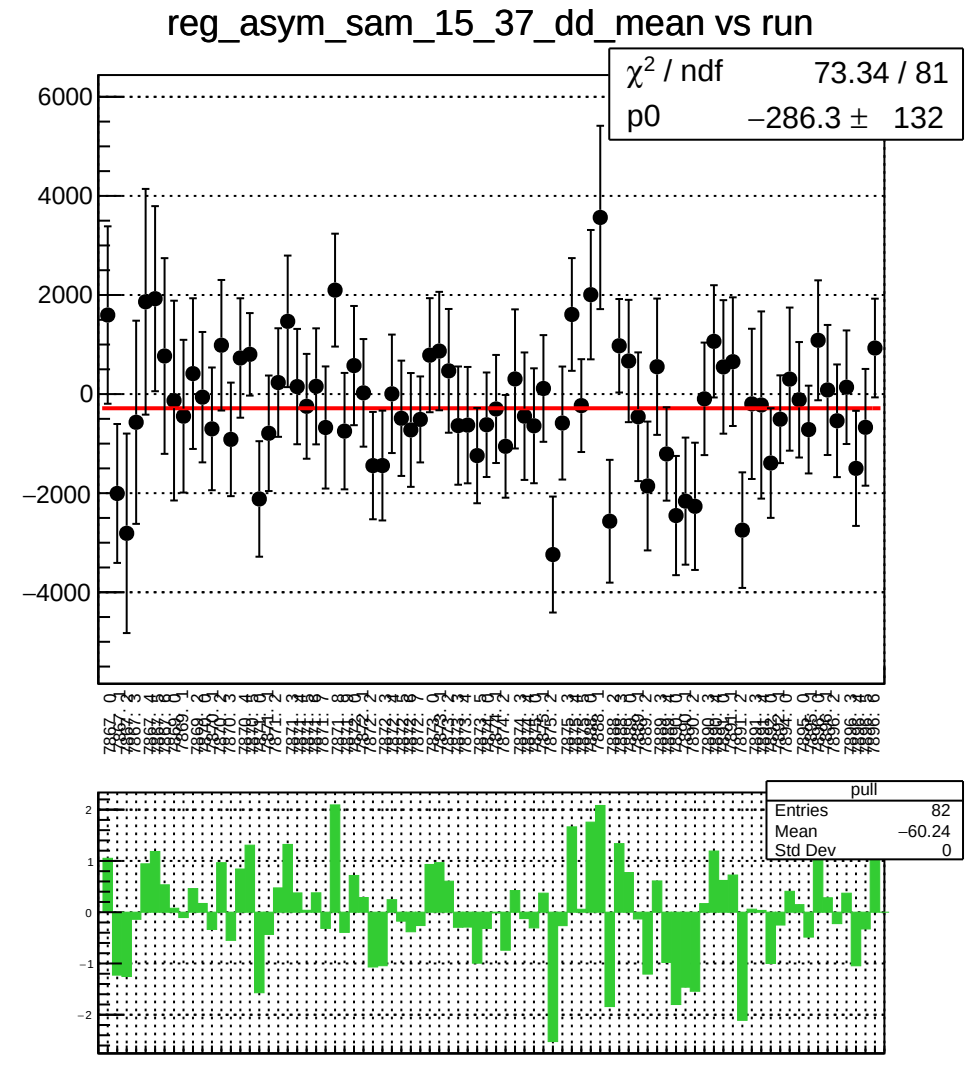

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.71 / 81
p0 −0.04073 ± 0.0383
pull
Entries 82
Mean 423.7
Std Dev 0
pull1D
Entries 82
Mean −0.007826
Std Dev 1.016

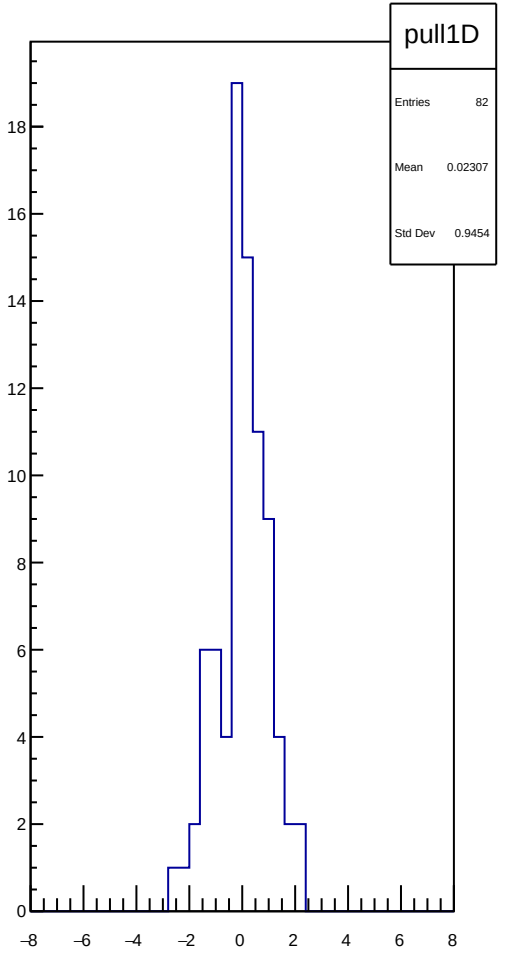

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.227e+05 / 81
p0 33.27 ± 0.02708
100
90
80
70
60
50
40
30
20

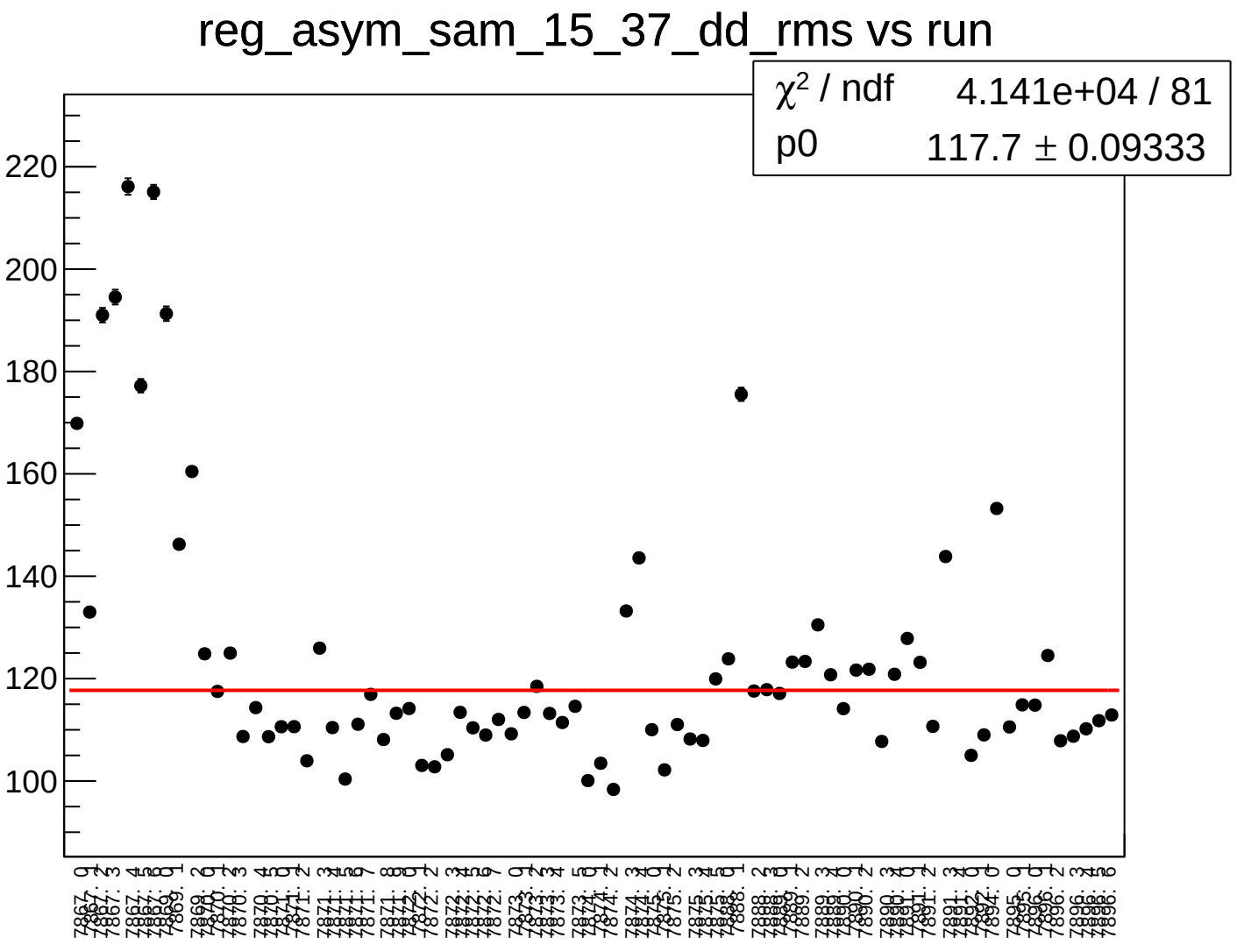

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.91 / 81
p0 7.46e−14 ± 9.359e−14
pull
Entries 82
Mean 57.75
Std Dev 33.64

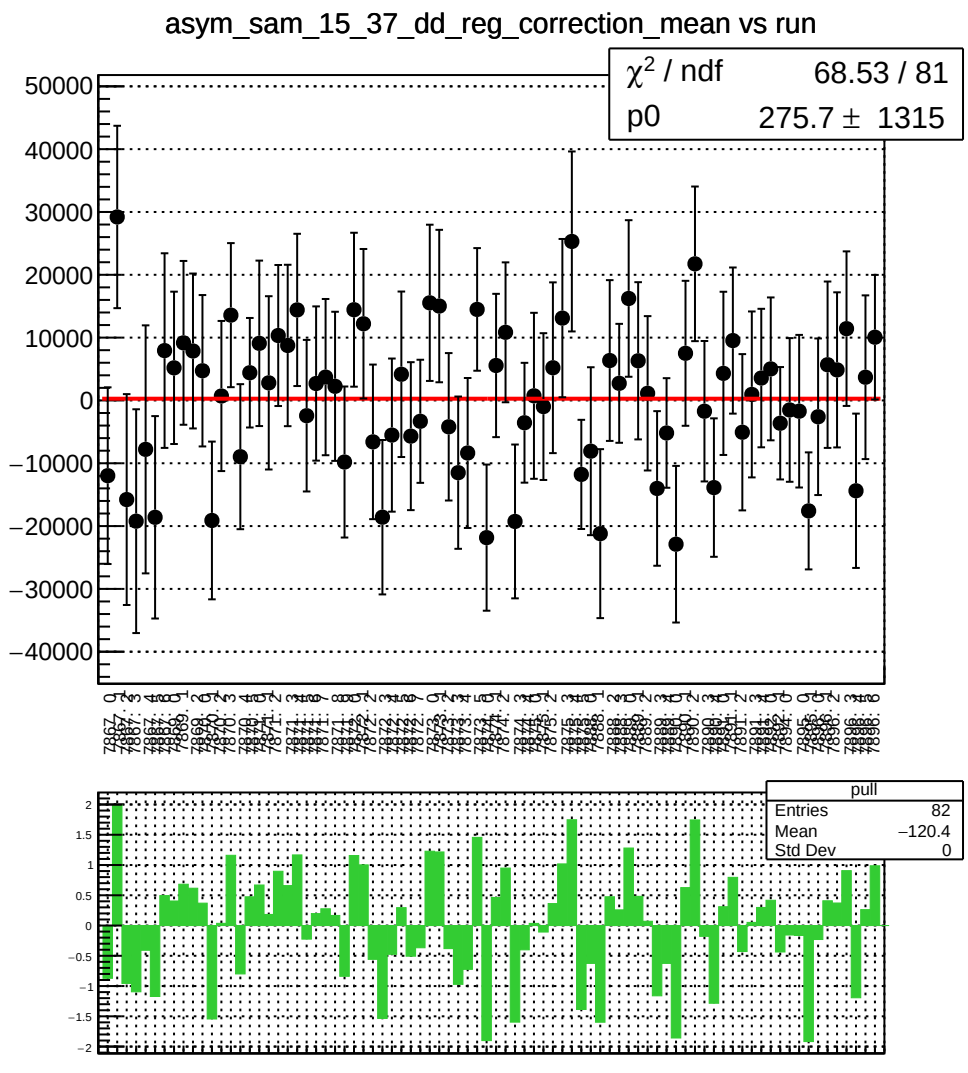

pull1D
Entries 82
Mean −0.07156
Std Dev 1.003

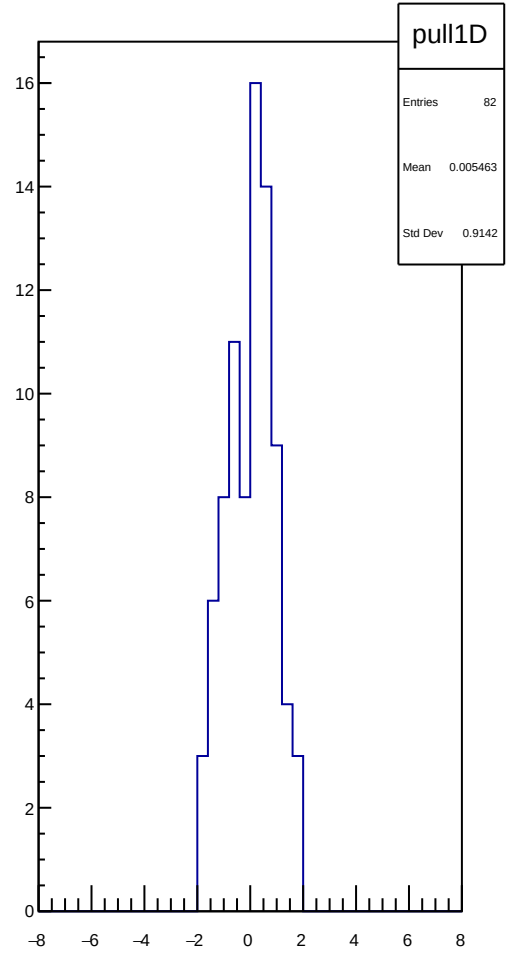

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.653e+05 / 81
p0 6.161e−11 ± 6.618e−14
1.2
1
0.8
0.6
0.4
0.2

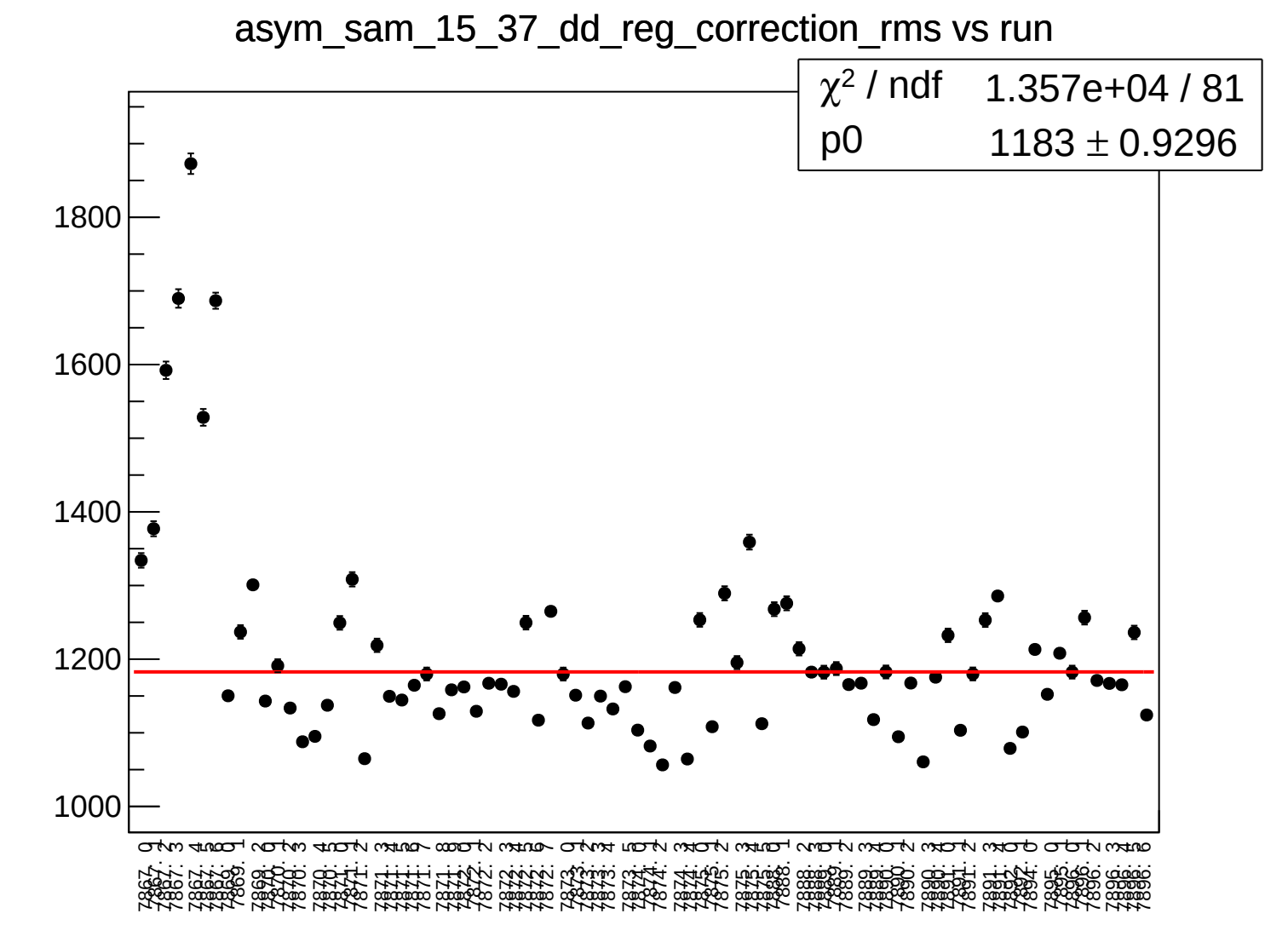

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 73.34 / 81
p0 −286.3 ± 132
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −60.24
Std Dev 0
2
1
0
−1
−2

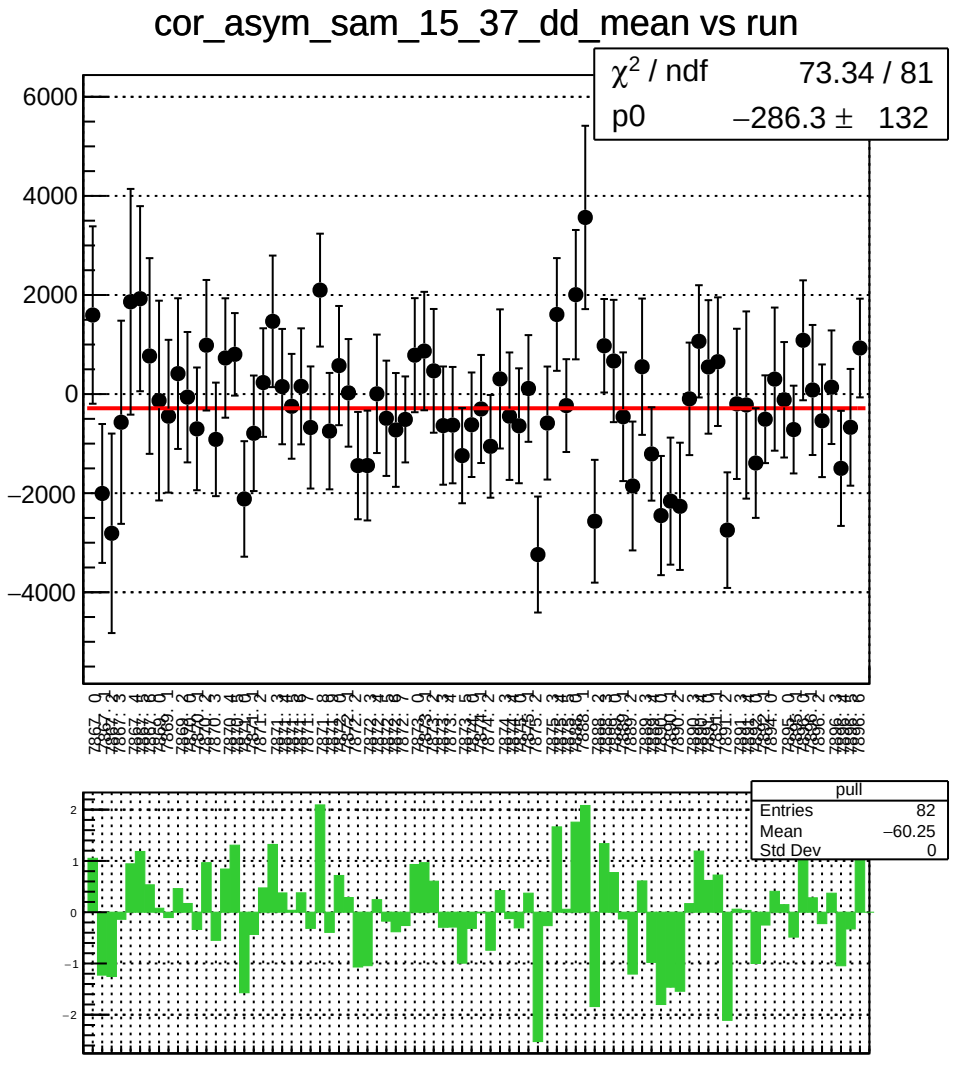

pull1D
Entries 82
Mean 0.02307
Std Dev 0.9454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

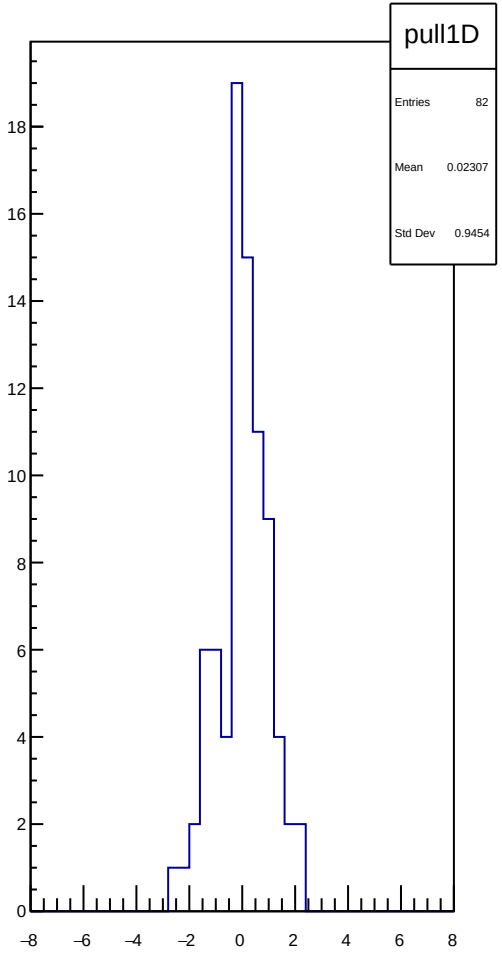

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.141e+04 / 81
p0 117.7 ± 0.09333
220
200
180
160
140
120
100

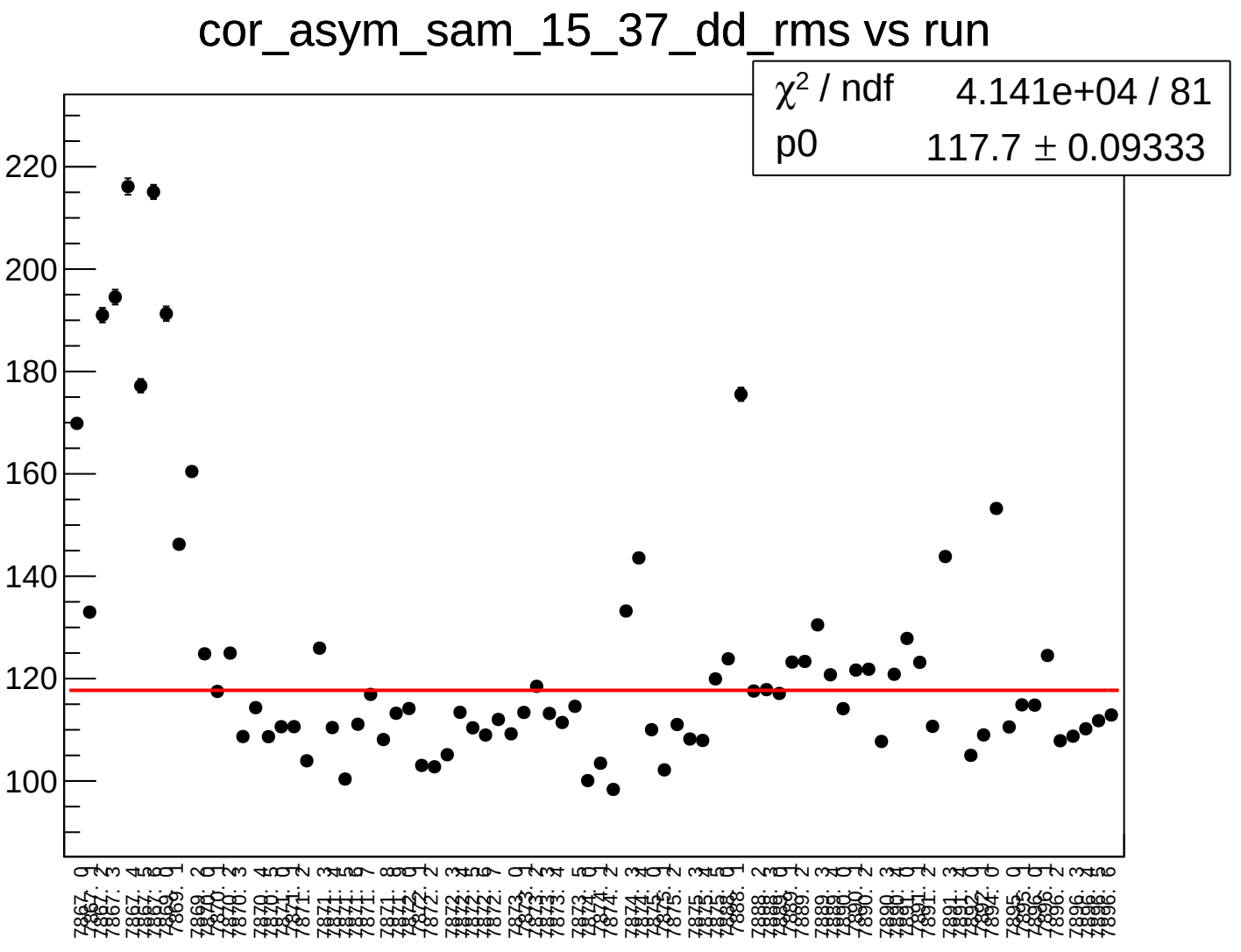

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 68.53 / 81
p0 275.7 ± 1315
pull
Entries 82
Mean −120.4
Std Dev 0

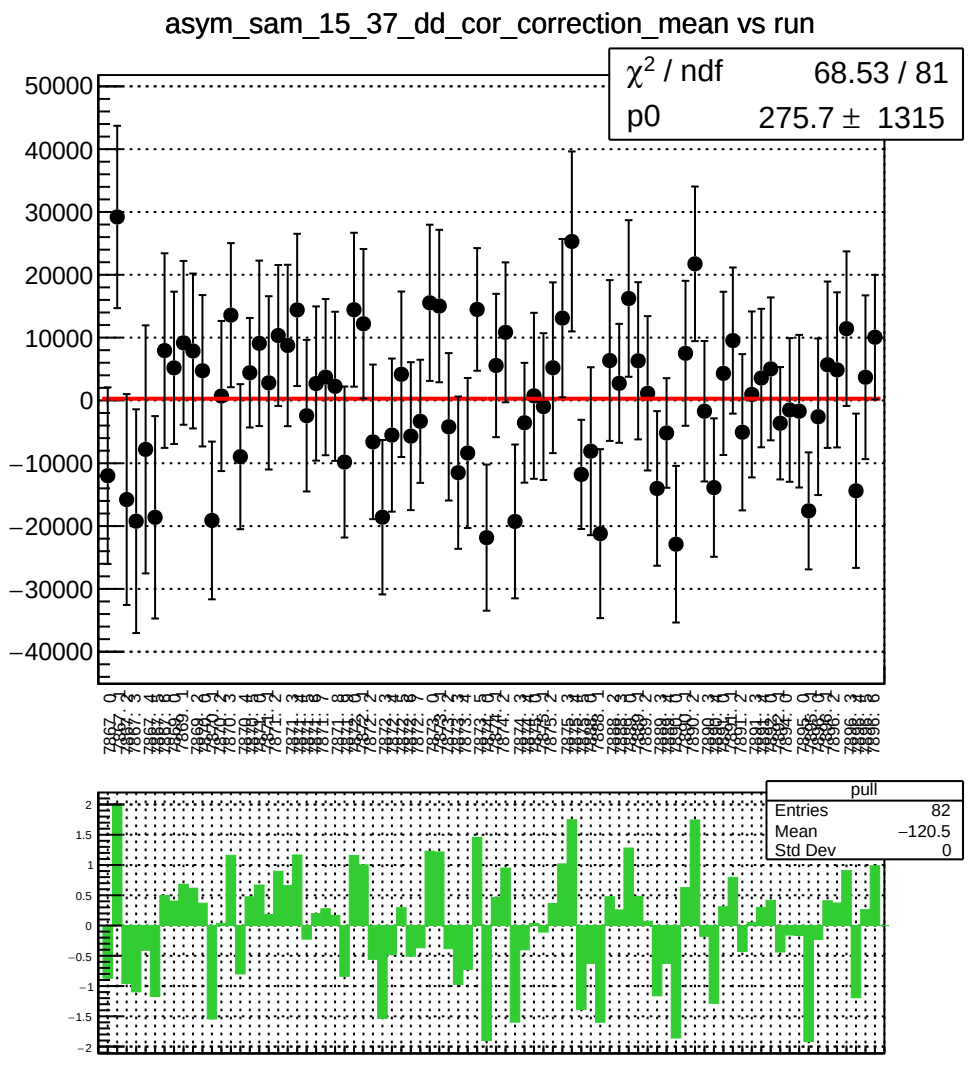

pull1D
Entries 82
Mean 0.005463
Std Dev 0.9142

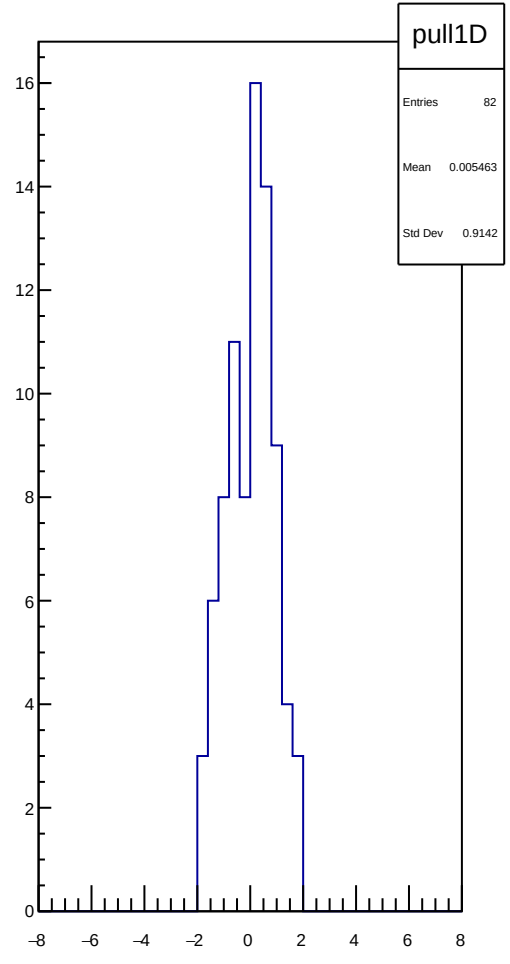

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.357e+04 / 81
p0 1183 ± 0.9296
1800
1600
1400
1200
1000

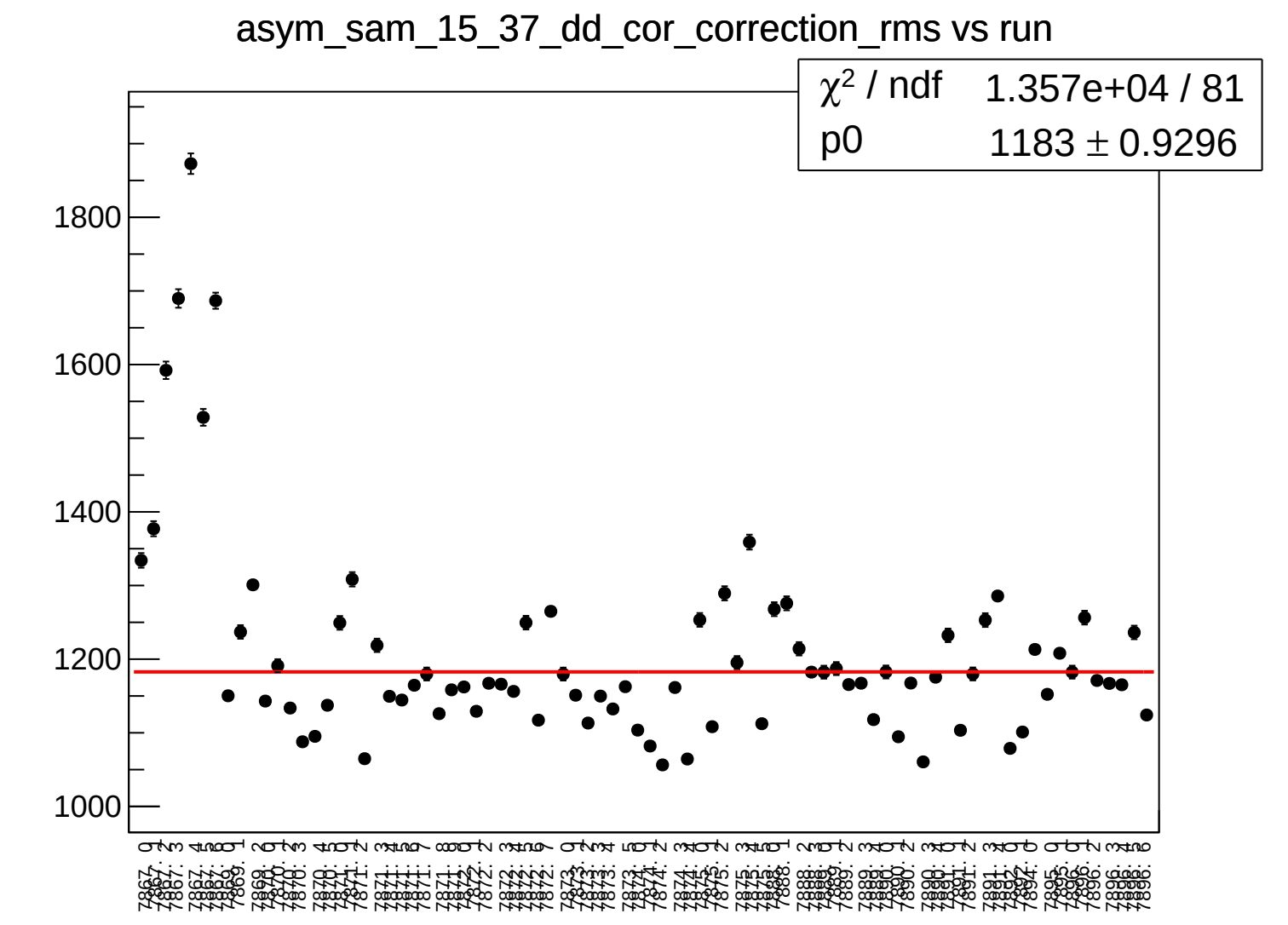

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 73.34 / 81
p0 −286.3 ± 132
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −60.25
Std Dev 0
2
1
0
−1
−2

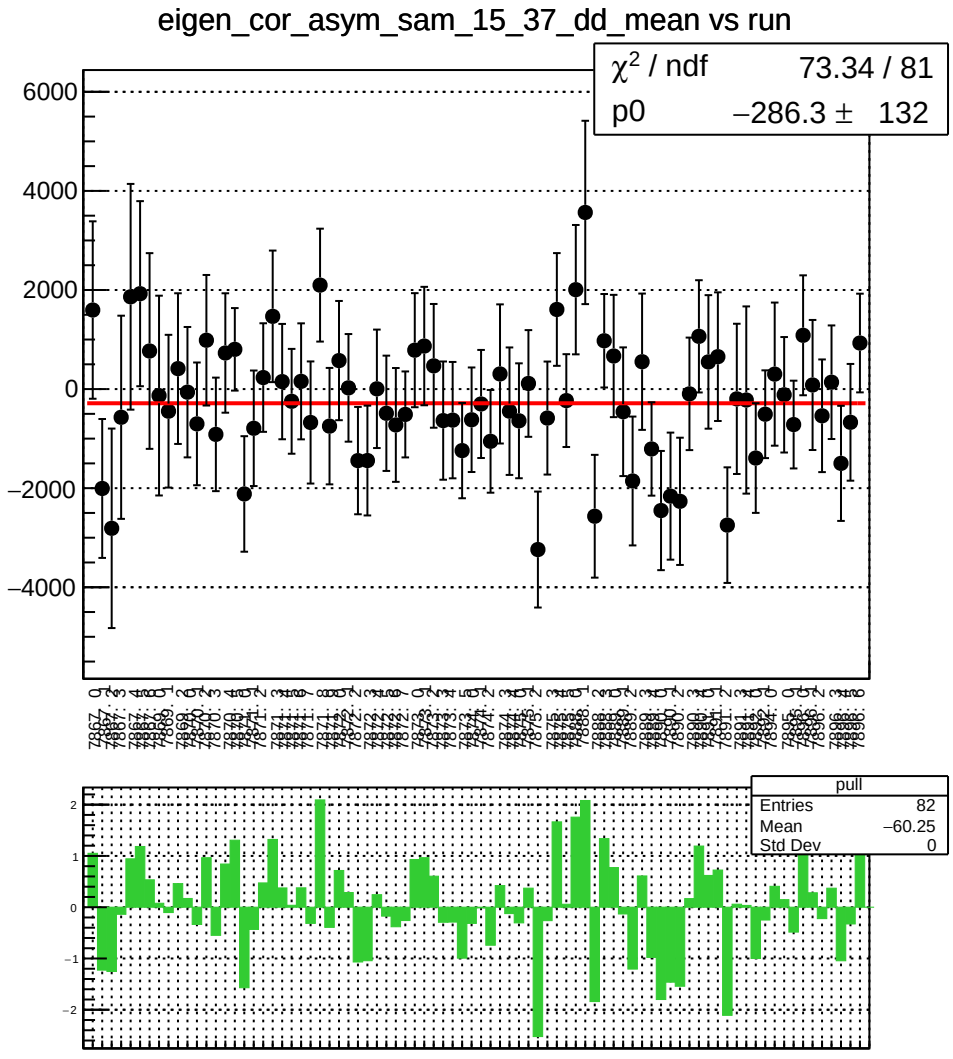

pull1D
Entries 82
Mean 0.02307
Std Dev 0.9454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

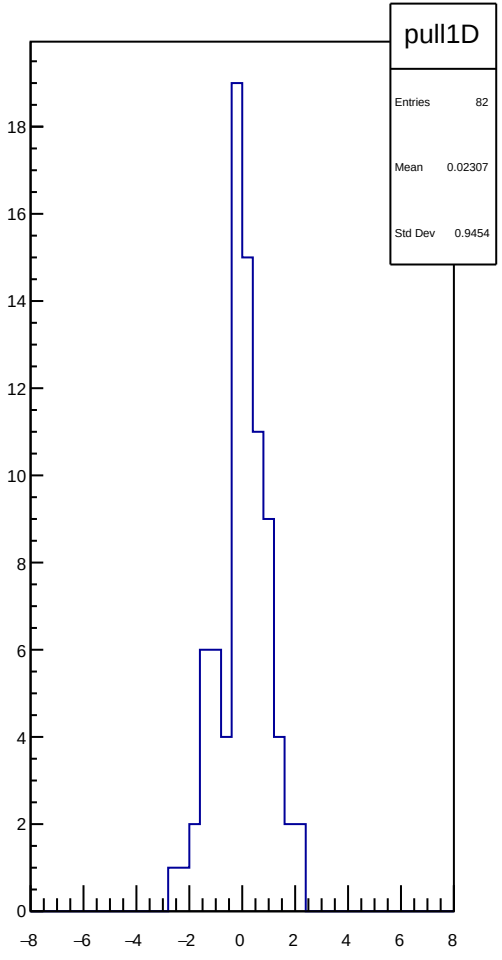

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.141e+04 / 81
p0 117.7 ± 0.09333
220
200
180
160
140
120
100

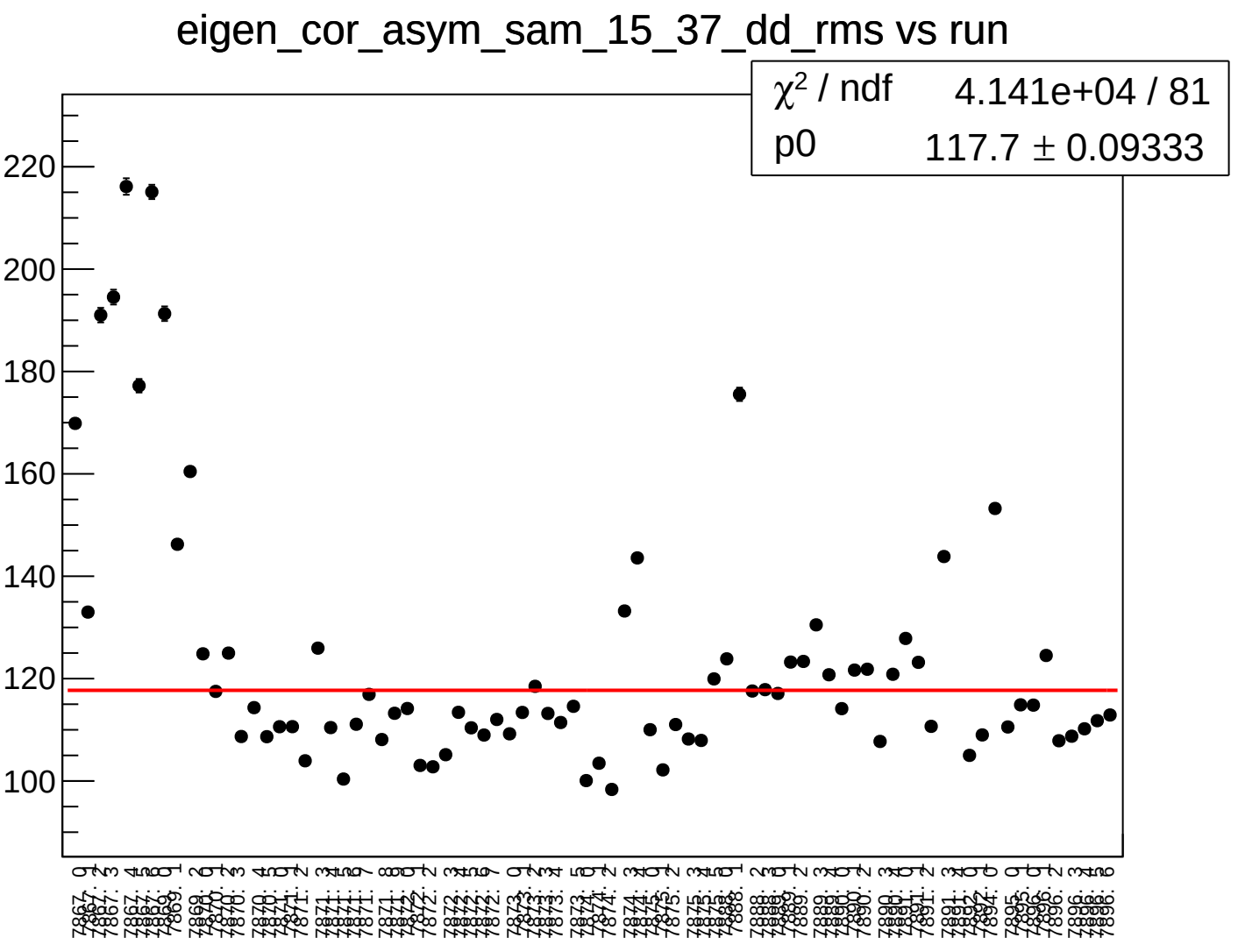

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 68.53 / 81
p0 275.7 ± 1315
pull
Entries 82
Mean −120.5
Std Dev 0

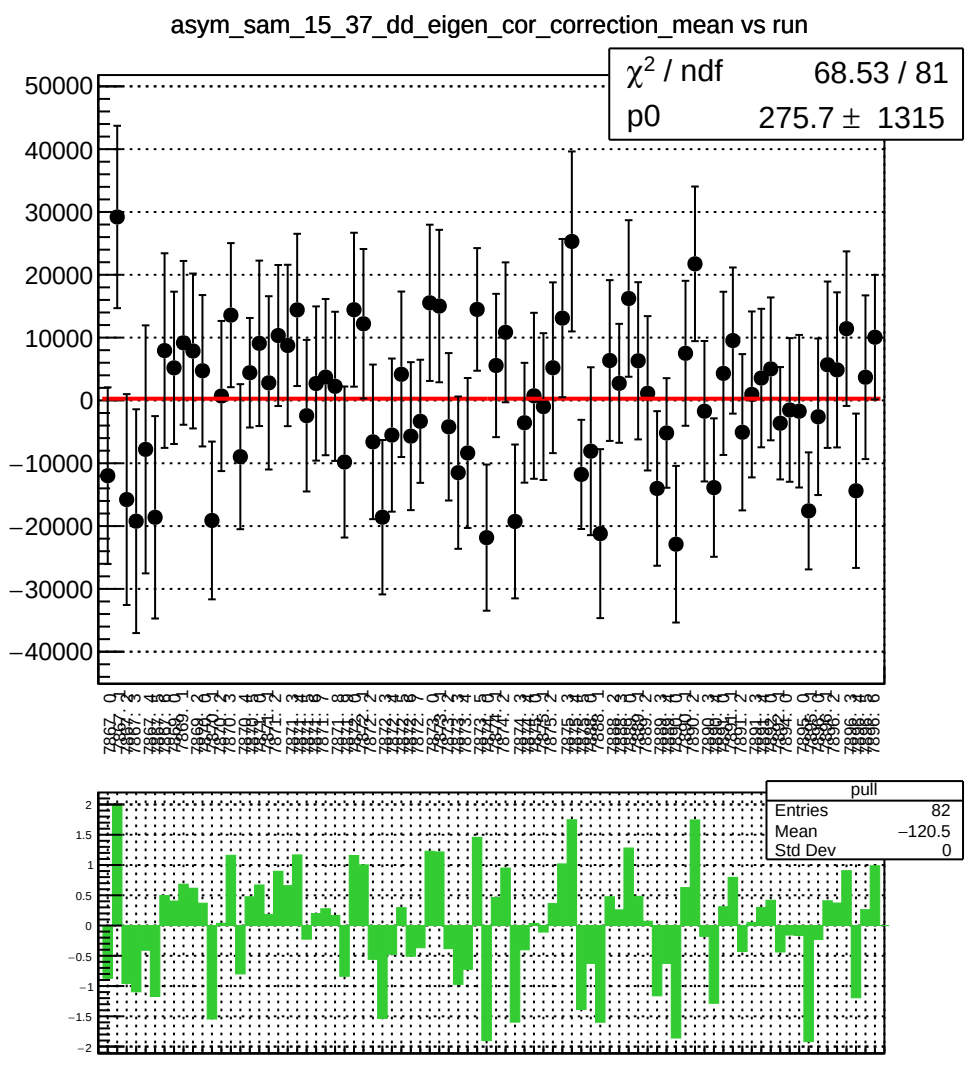

pull1D
Entries 82
Mean 0.005463
Std Dev 0.9142

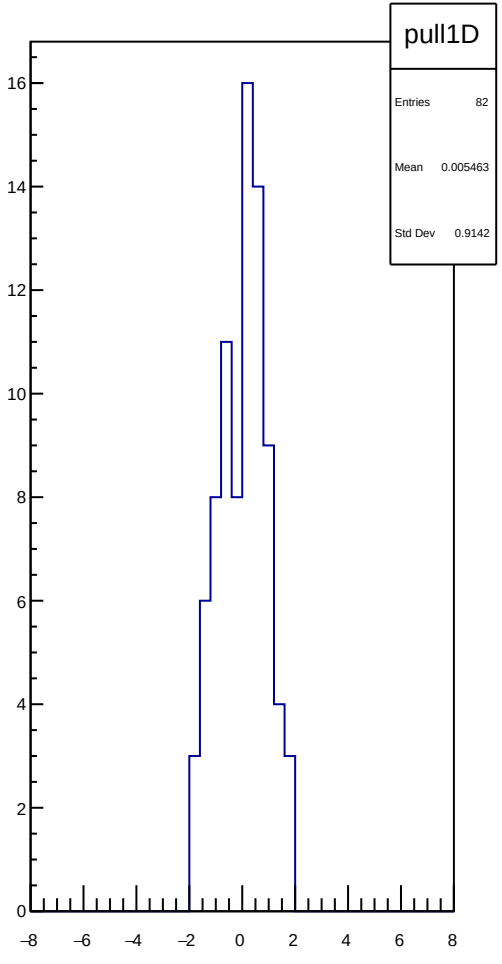

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.357e+04 / 81
p0 1183 ± 0.9296
1800
1600
1400
1200
1000

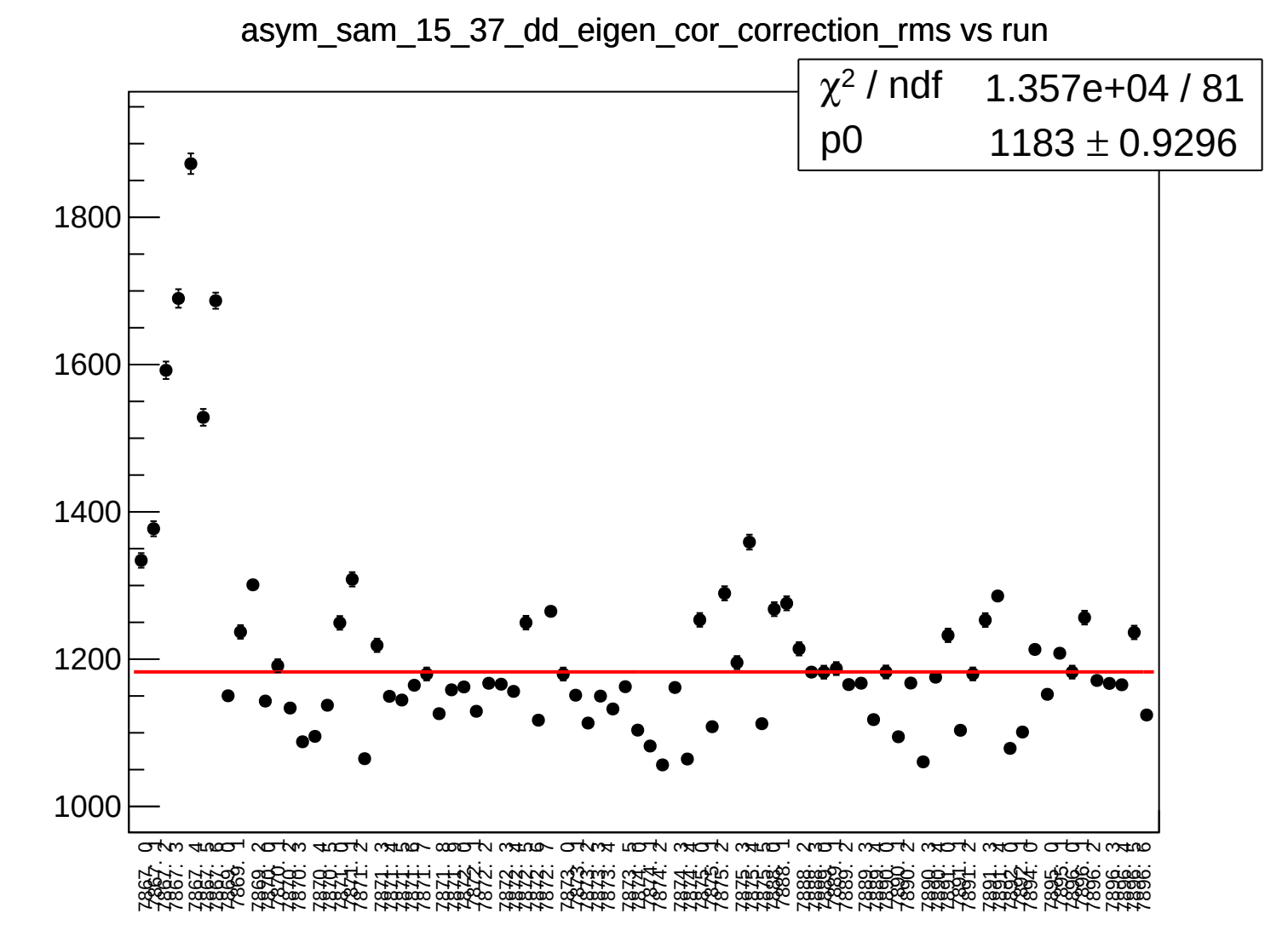

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 73.34 / 81
p0 −286.3 ± 132
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −60.25
Std Dev 0
2
1
0
−1
−2

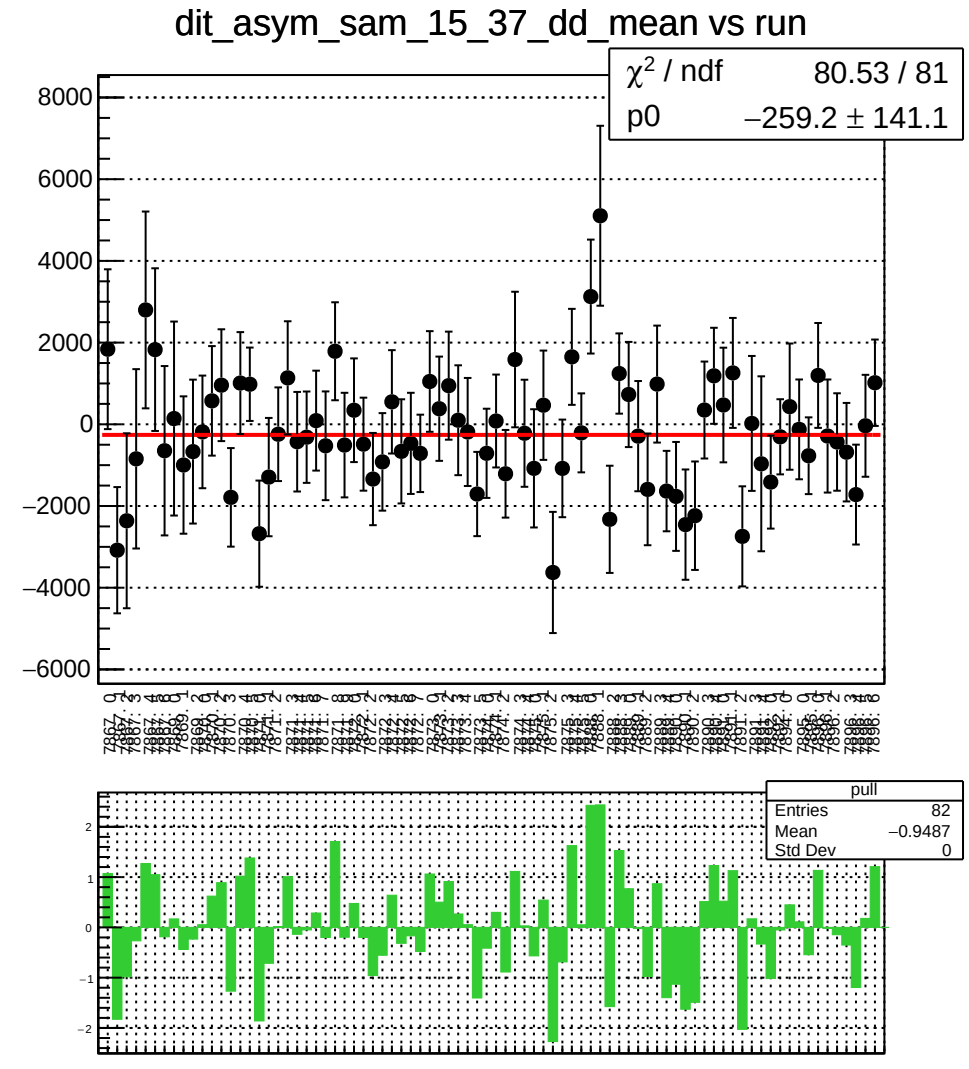

pull1D
Entries 82
Mean 0.02307
Std Dev 0.9454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

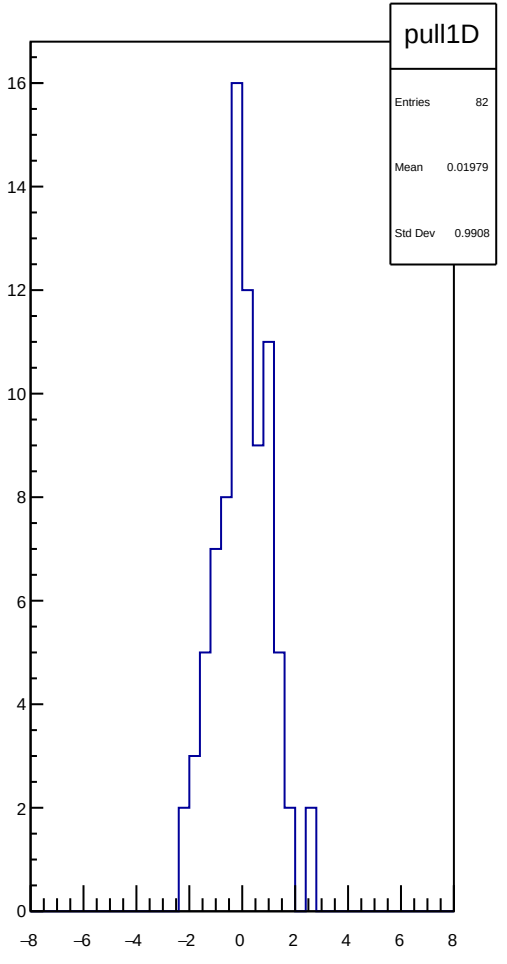

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.141e+04 / 81
p0 117.7 ± 0.09333
220
200
180
160
140
120
100

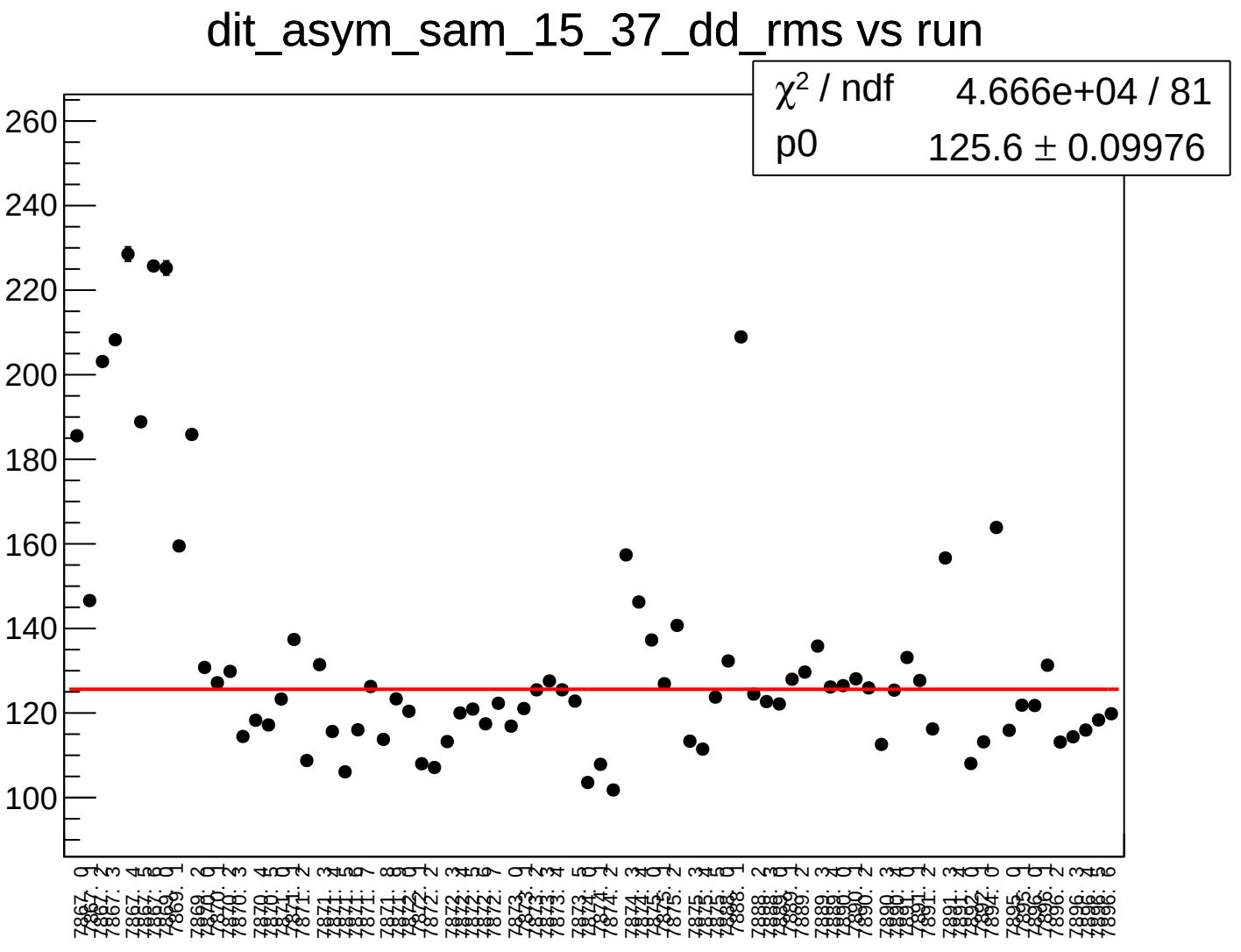

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.53 / 81
p0 275.7 ± 1315
pull
Entries 82
Mean −120.5
Std Dev 0

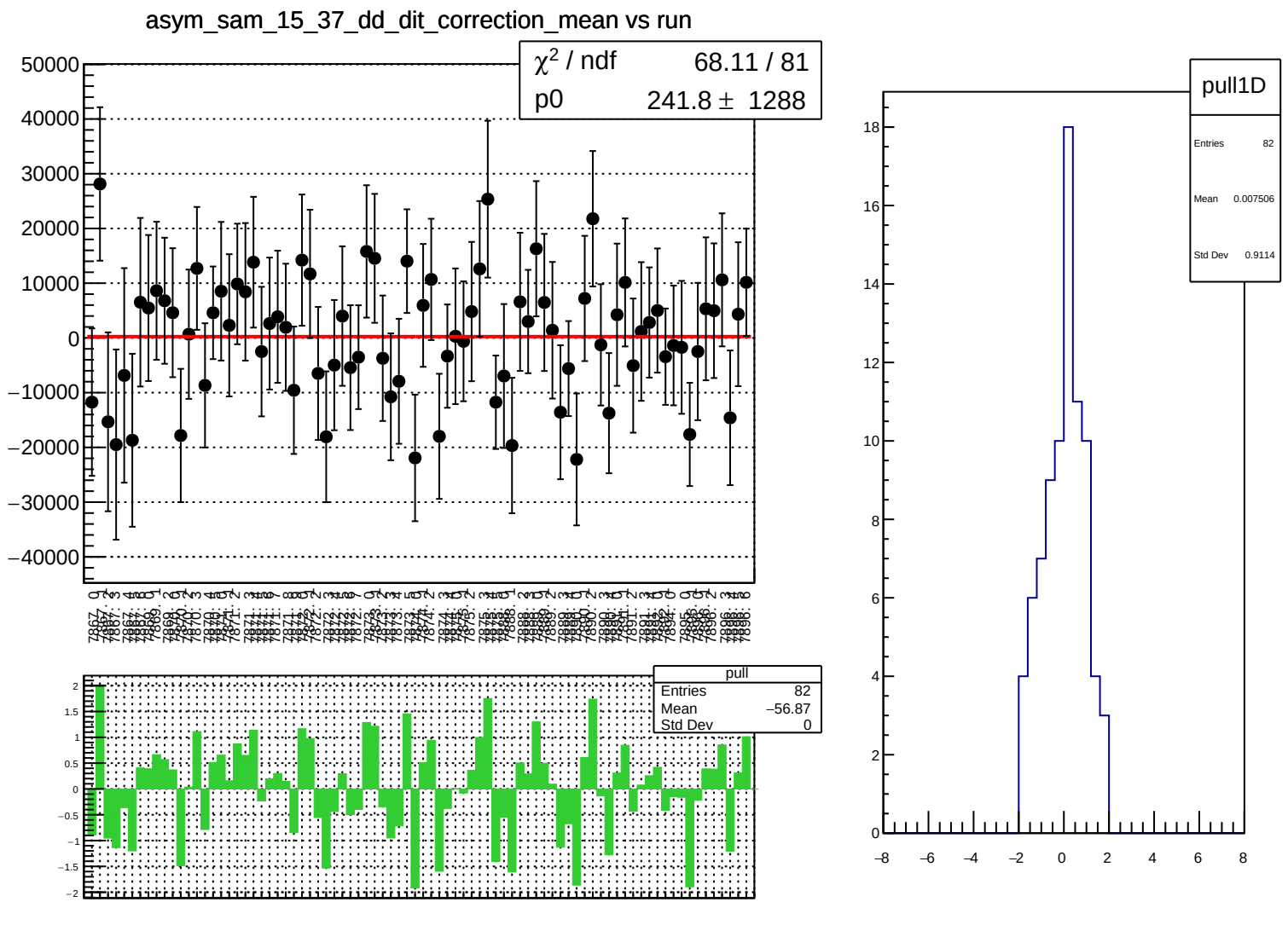

pull1D
Entries 82
Mean 0.005463
Std Dev 0.9142

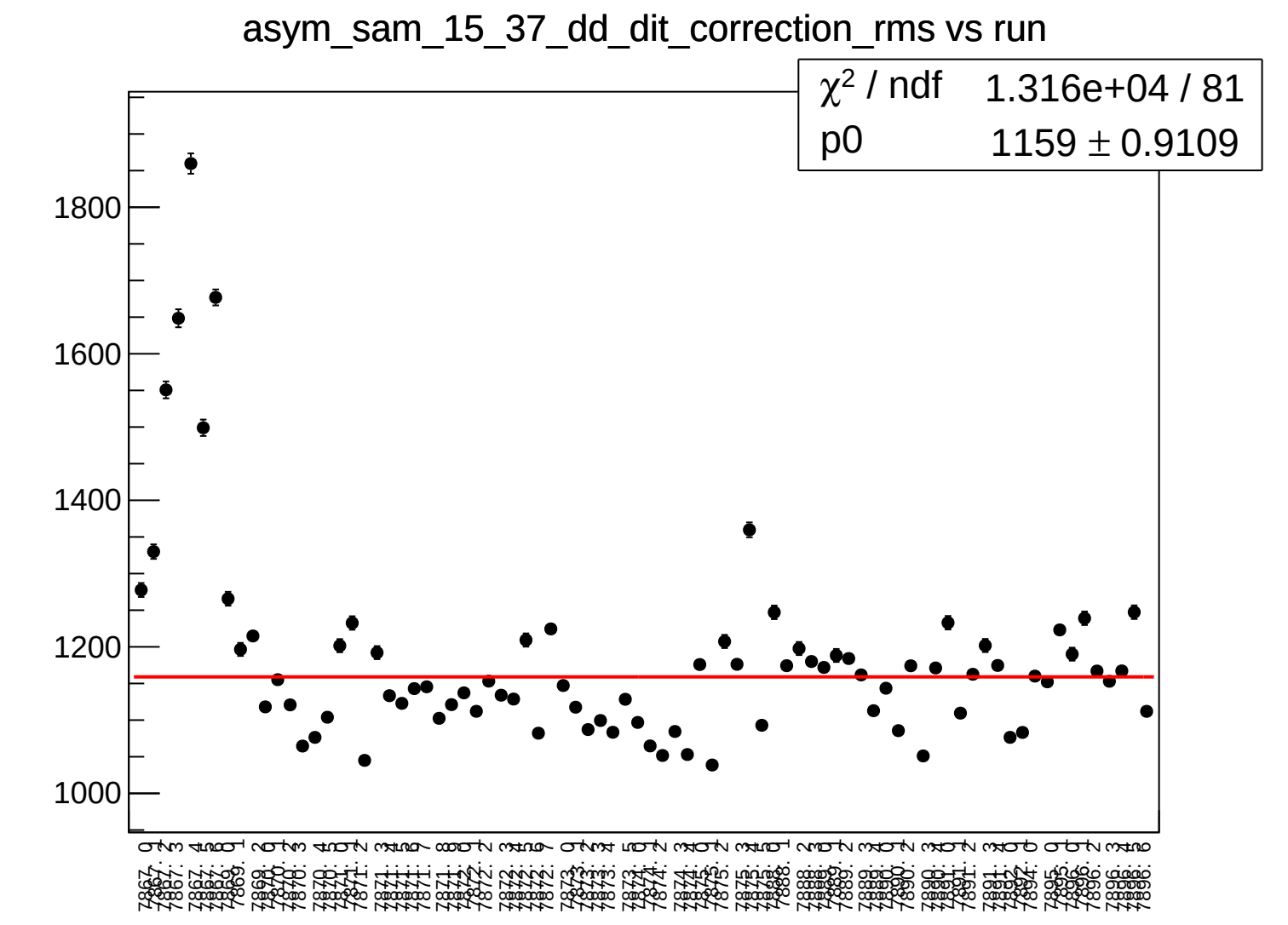

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.357e+04 / 81
p0 1183 ± 0.9296
1800
1600
1400
1200
1000

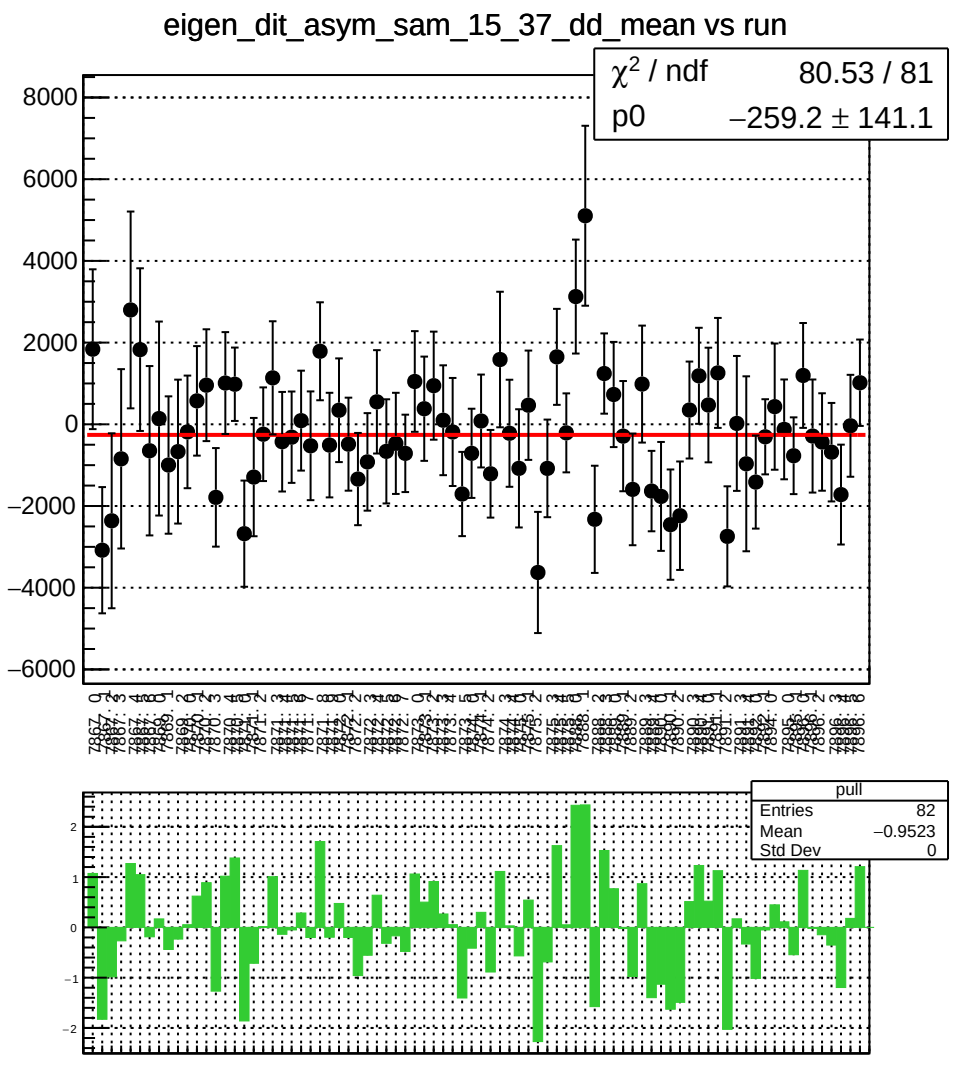

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 80.53 / 81
p0 −259.2 ± 141.1
pull
Entries 82
Mean −0.9487
Std Dev 0

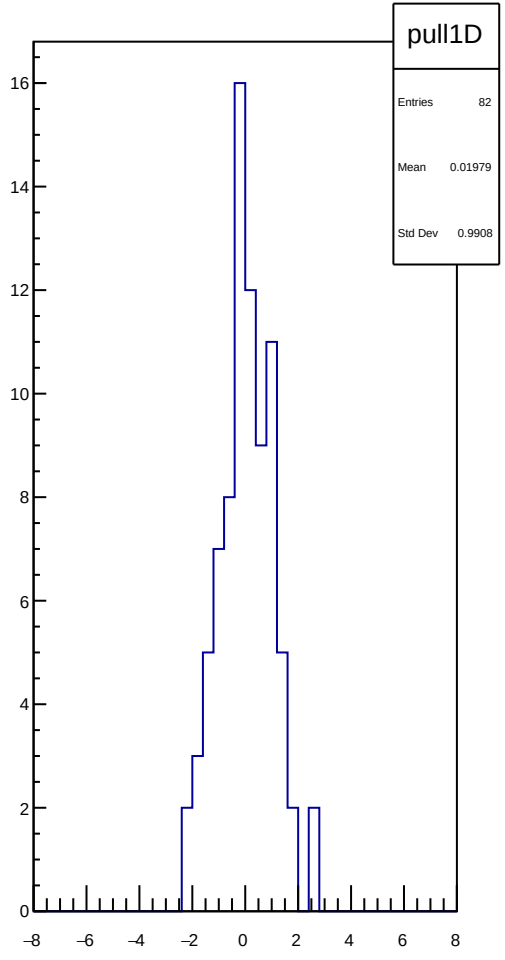

pull1D
Entries 82
Mean 0.01979
Std Dev 0.9908

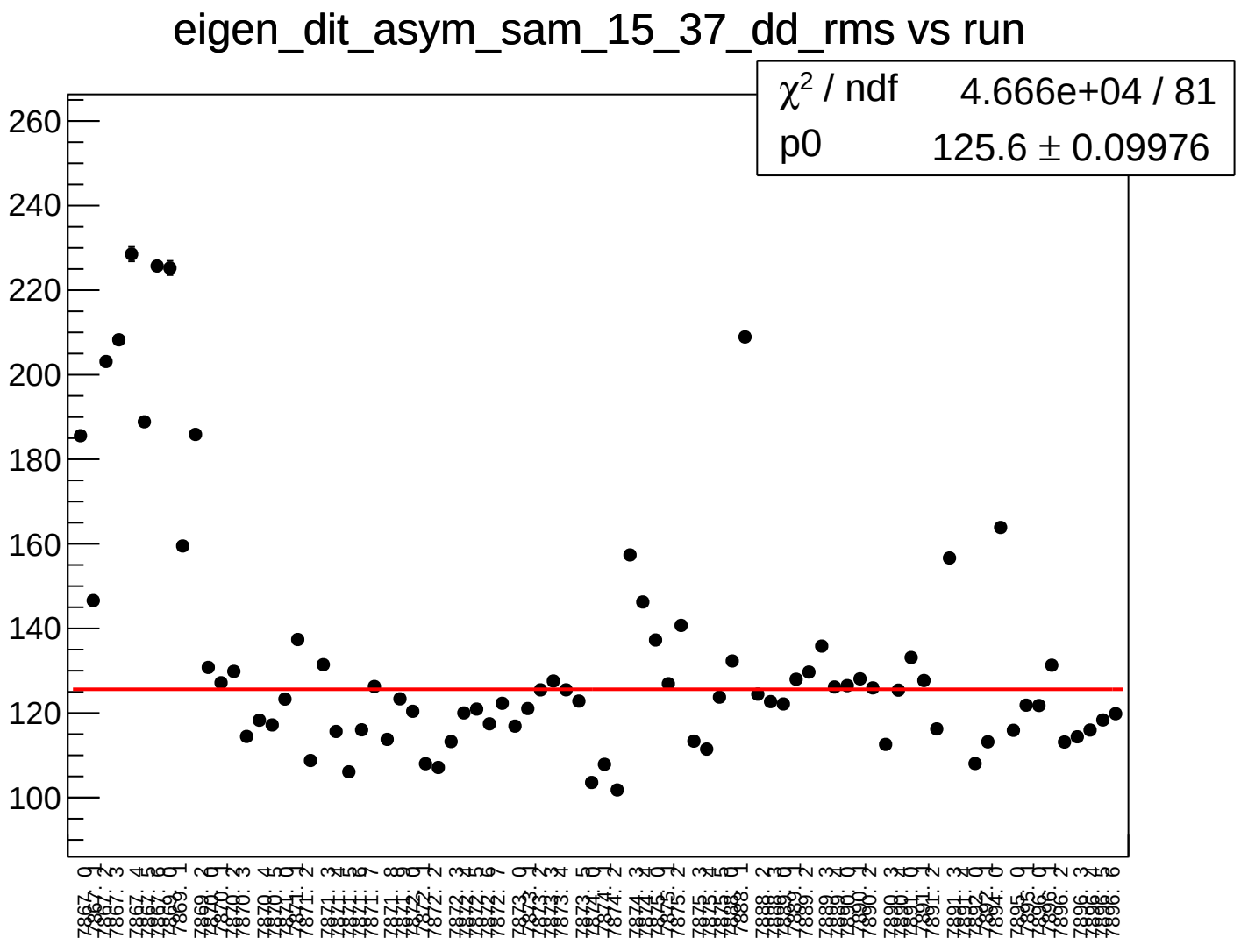

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.666e+04 / 81
p0 125.6 ± 0.09976
260
240
220
200
180
160
140
120
100

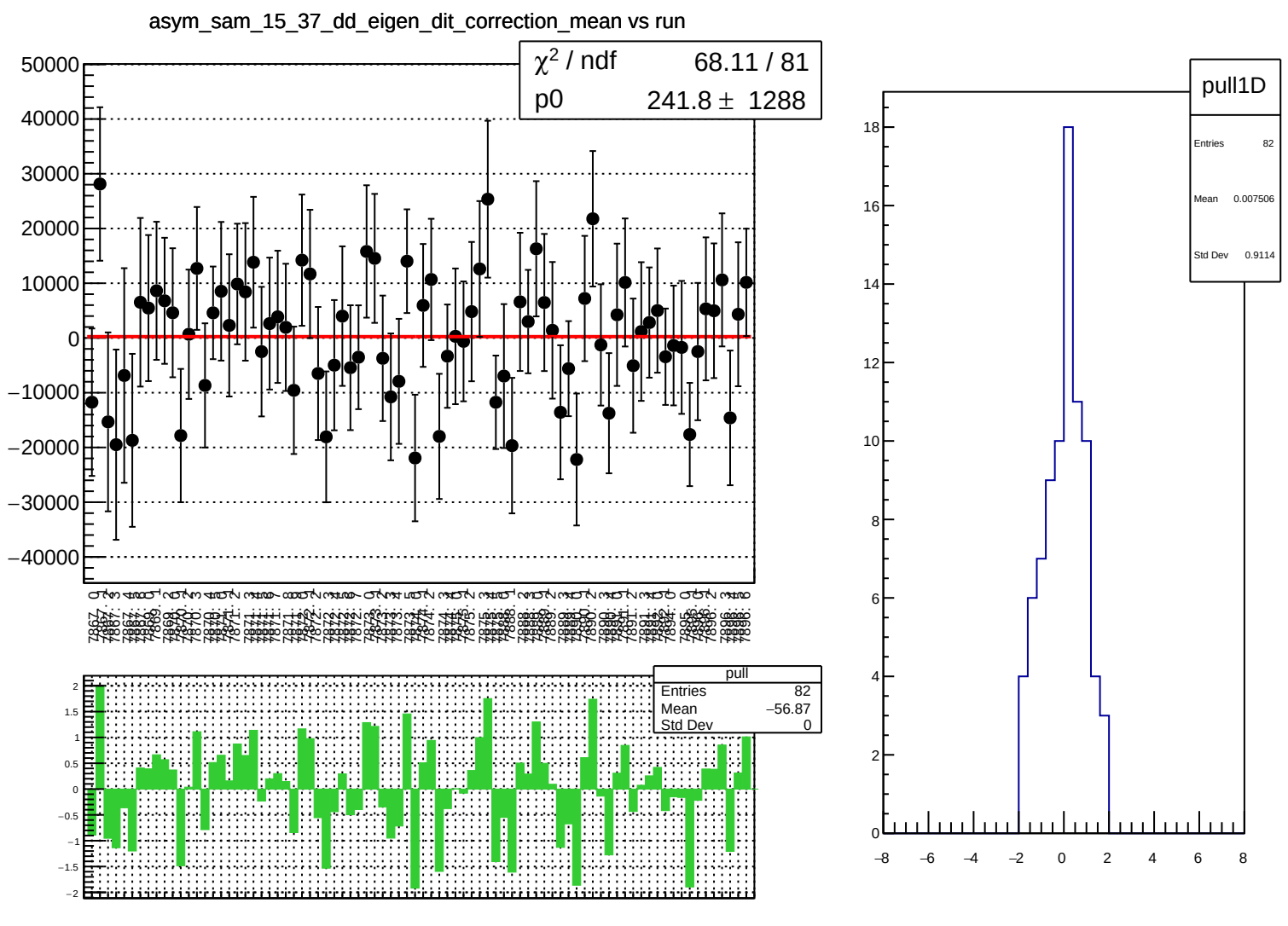

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 68.11 / 81
p0 241.8 ± 1288
pull
Entries 82
Mean −56.87
Std Dev 0
pull1D
Entries 82
Mean 0.007506
Std Dev 0.9114

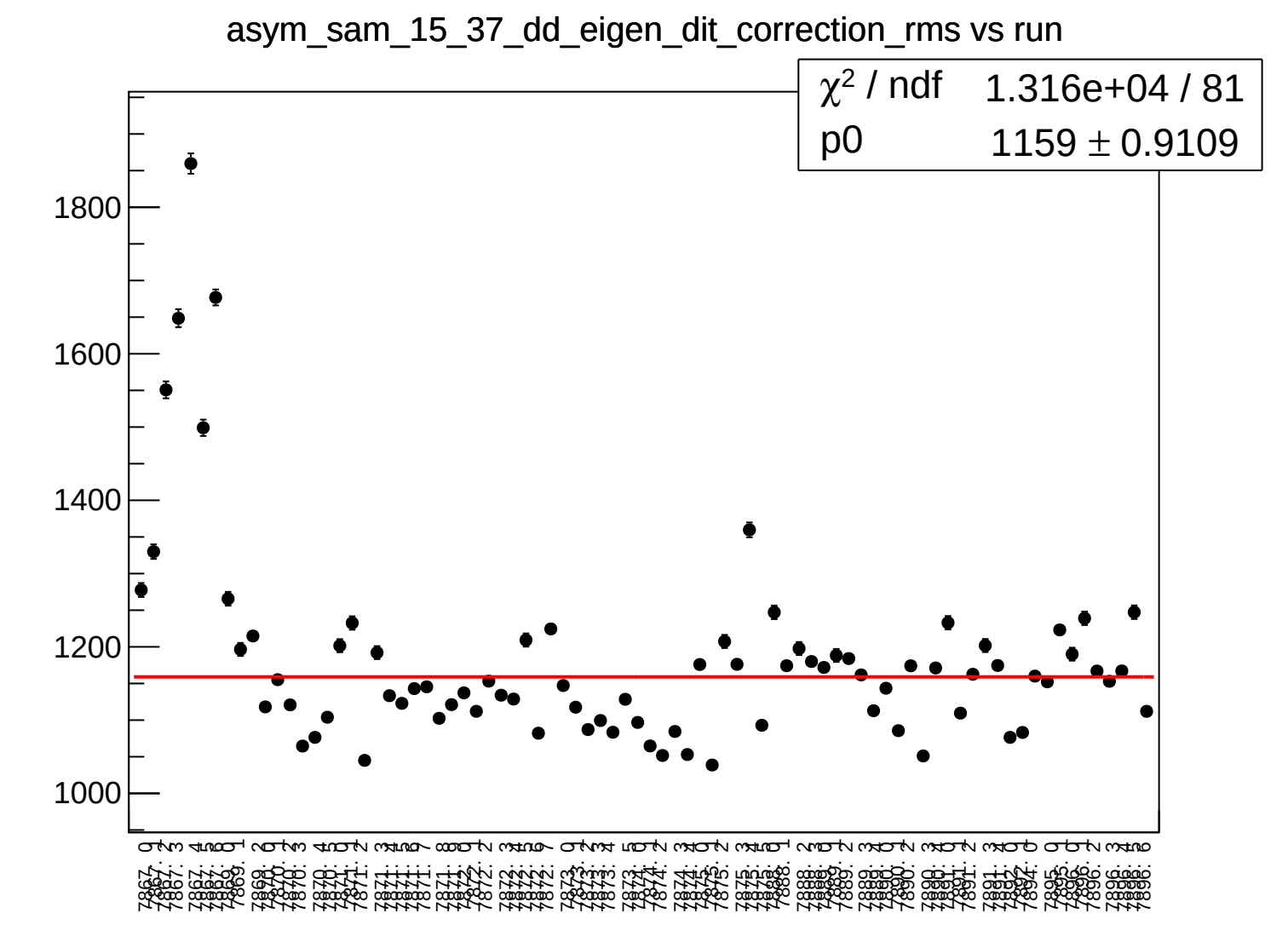

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.316e+04 / 81
p0 1159 ± 0.9109
1800
1600
1400
1200
1000

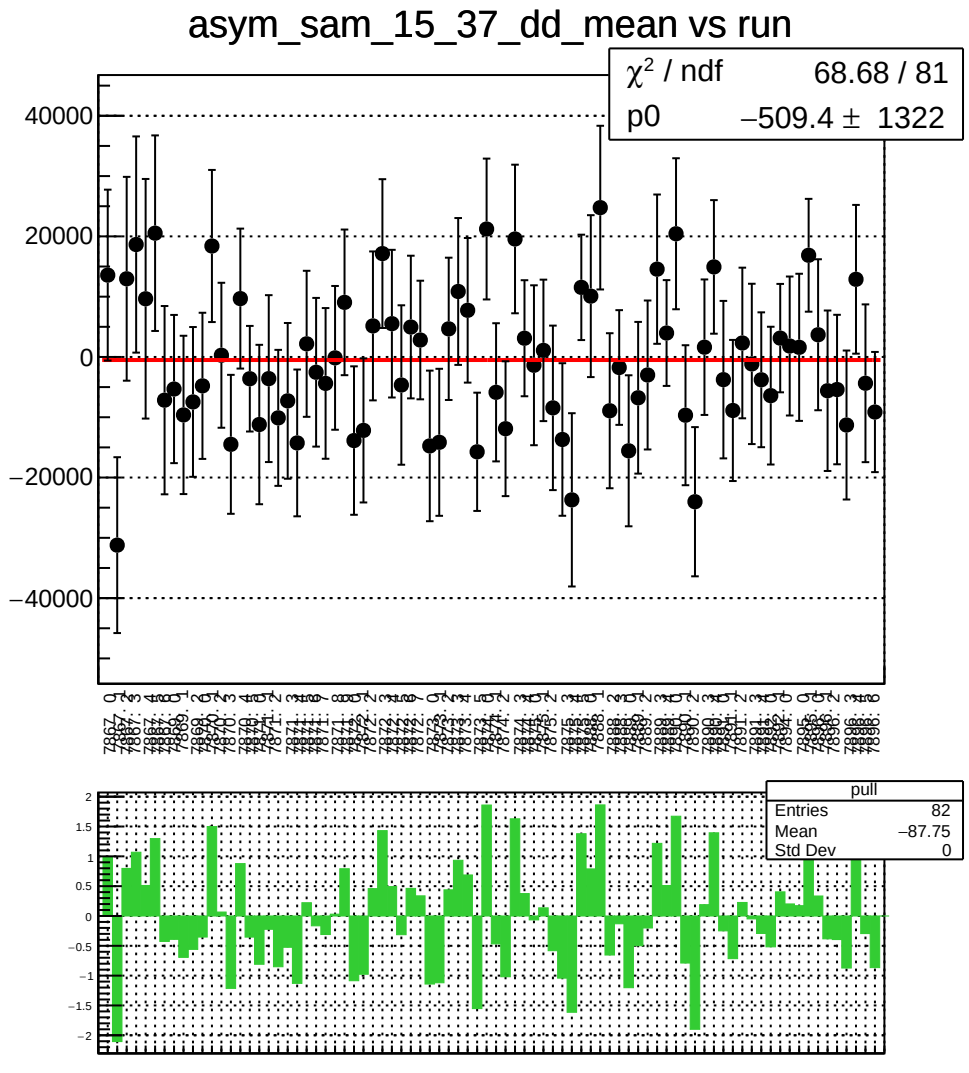

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 80.53 / 81
p0 −259.2 ± 141.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −0.9523
Std Dev 0
2
1
0
−1
−2

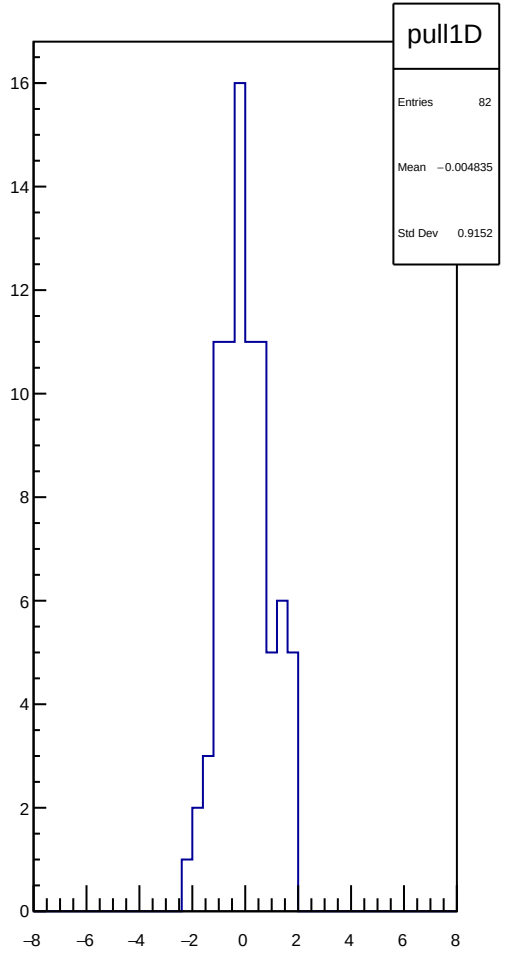

pull1D
Entries 82
Mean 0.01979
Std Dev 0.9908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

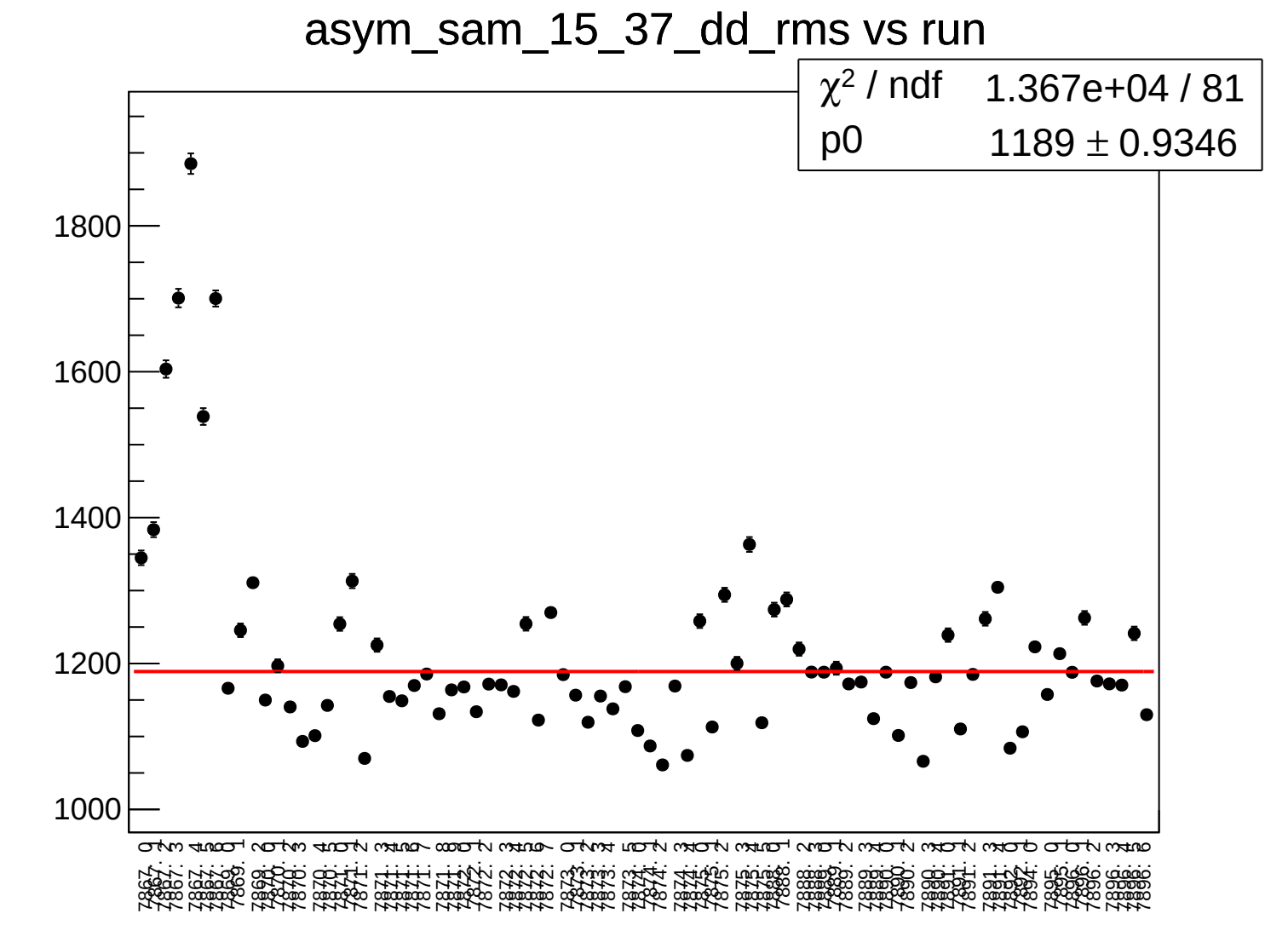

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4.666e+04 / 81
p0 125.6 ± 0.09976
260
240
220
200
180
160
140
120
100

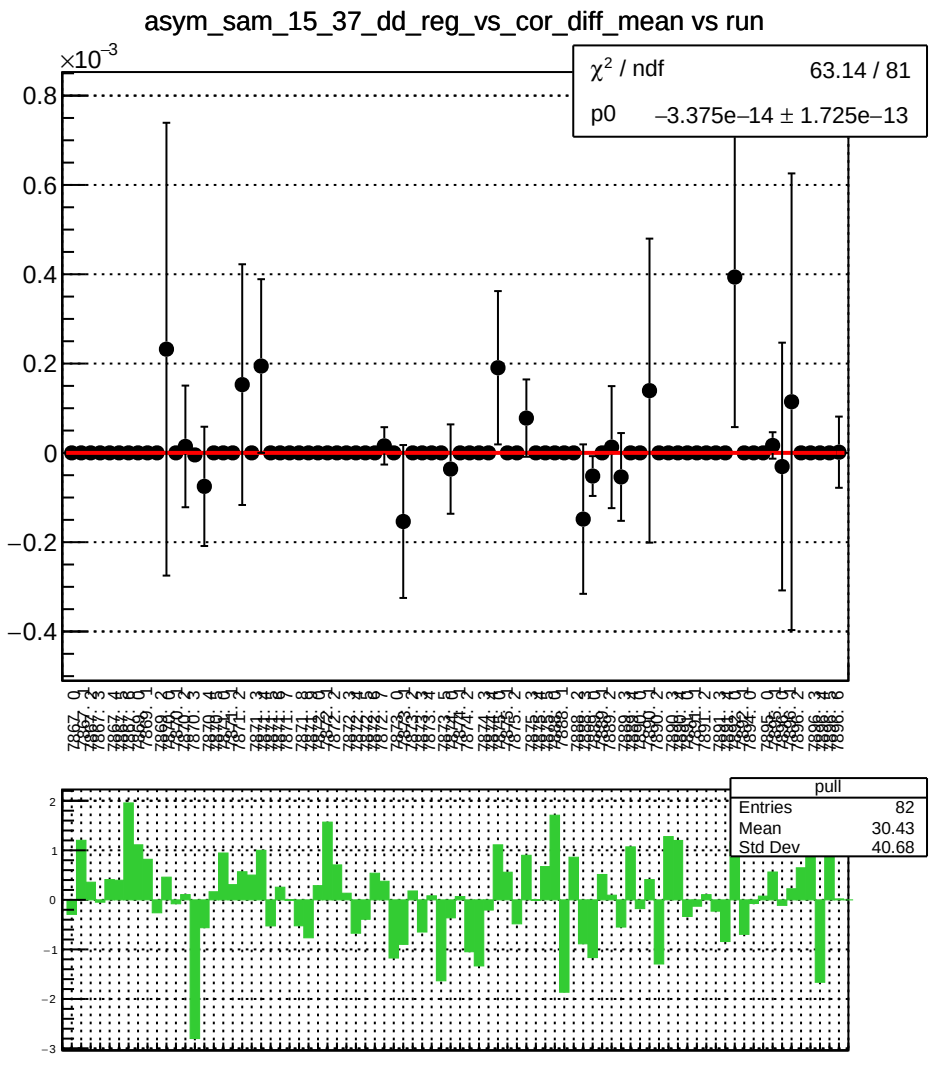

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.11 / 81
p0 241.8 ± 1288
pull
Entries 82
Mean −56.87
Std Dev 0
pull1D
Entries 82
Mean 0.007506
Std Dev 0.9114

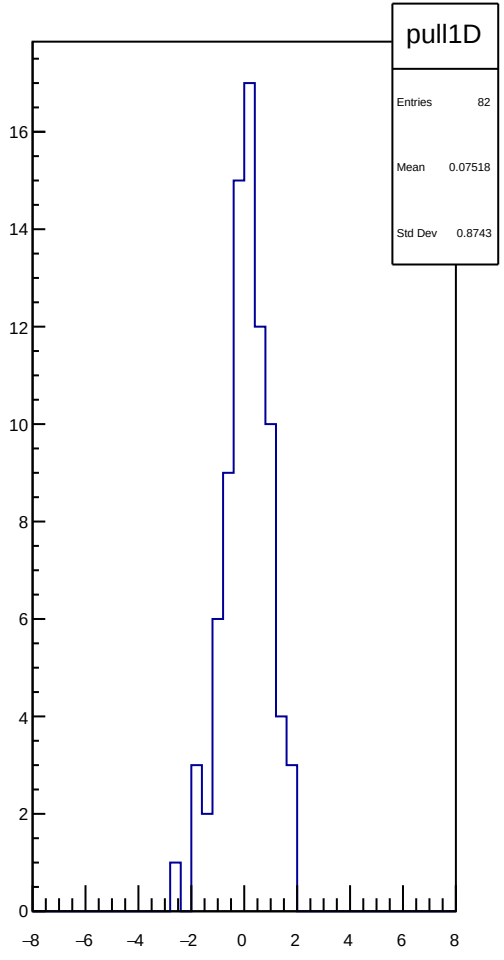

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.316e+04 / 81
p0 1159 ± 0.9109
1800
1600
1400
1200
1000

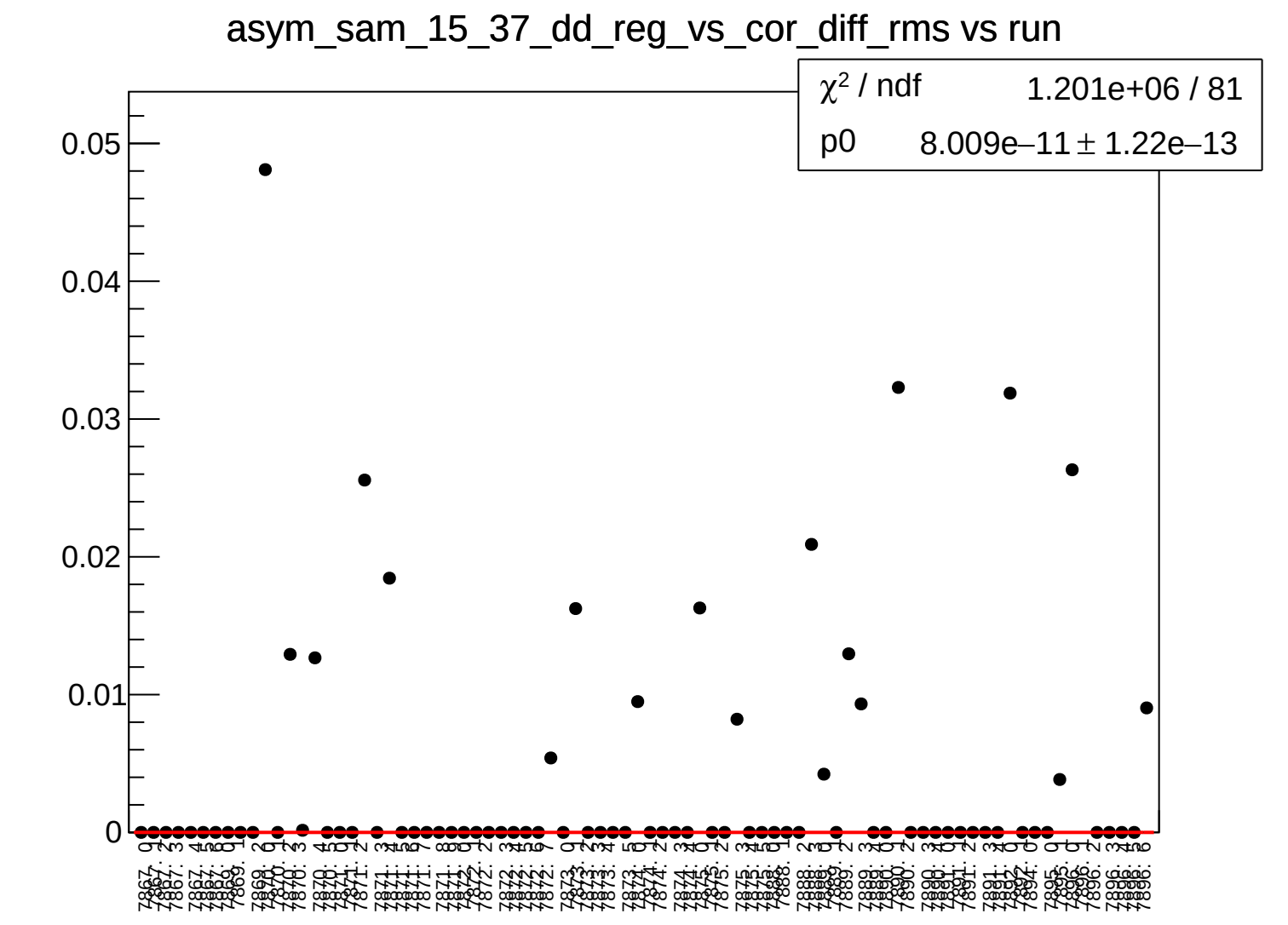

asym_sam_15_37_dd_mean vs run
χ² / ndf 68.68 / 81
p0 −509.4 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −87.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

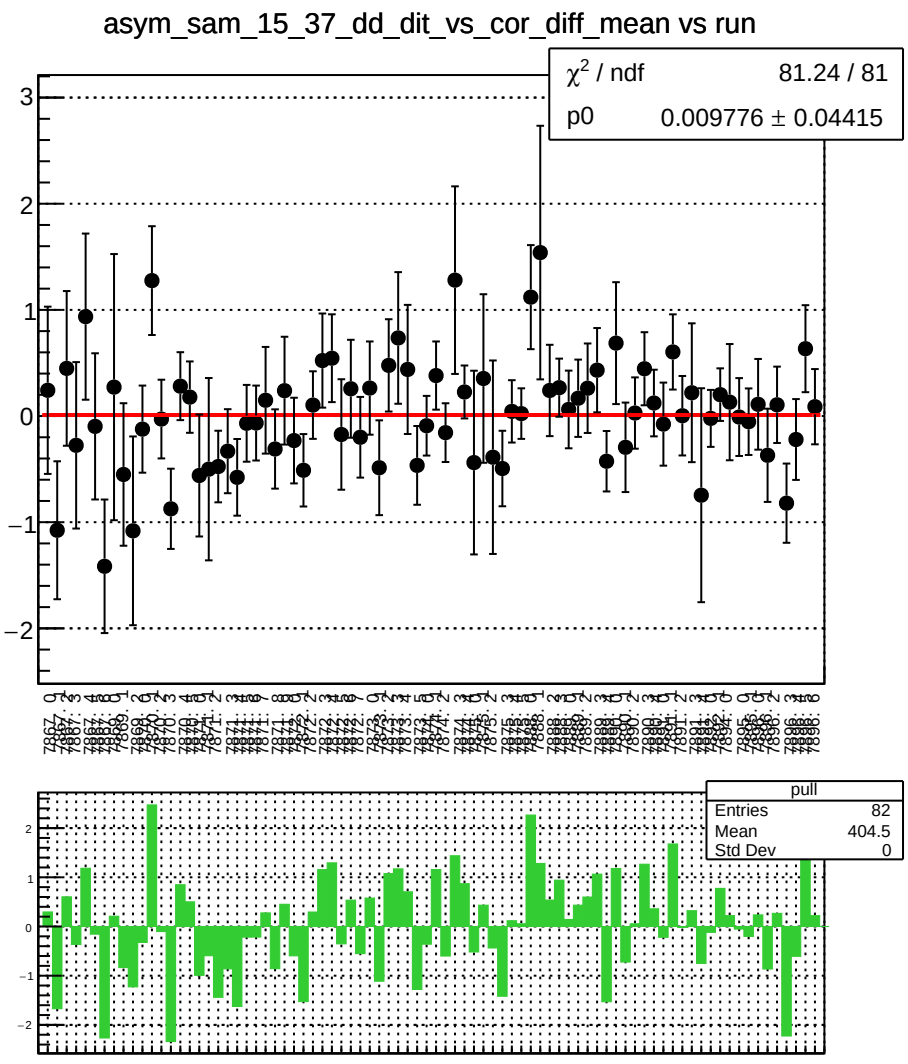

pull1D
Entries 82
Mean −0.004835
Std Dev 0.9152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

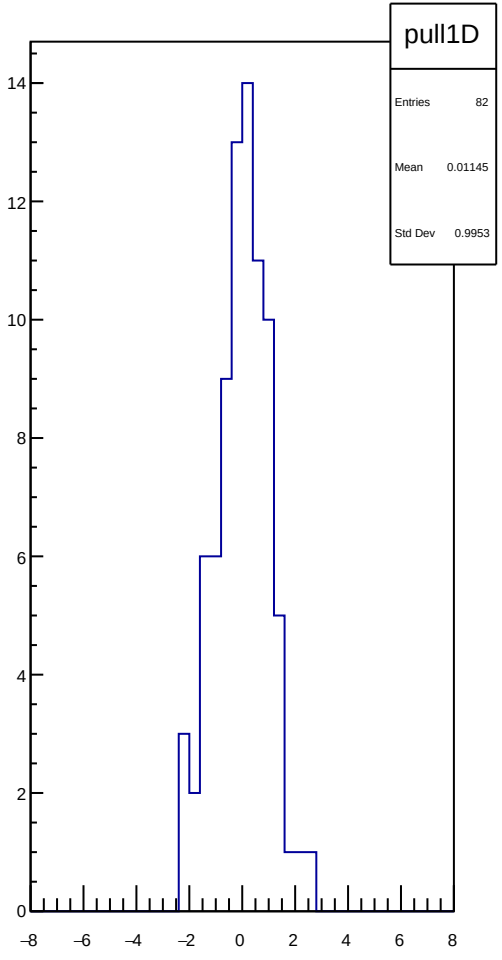

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.367e+04 / 81
p0 1189 ± 0.9346
1800
1600
1400
1200
1000

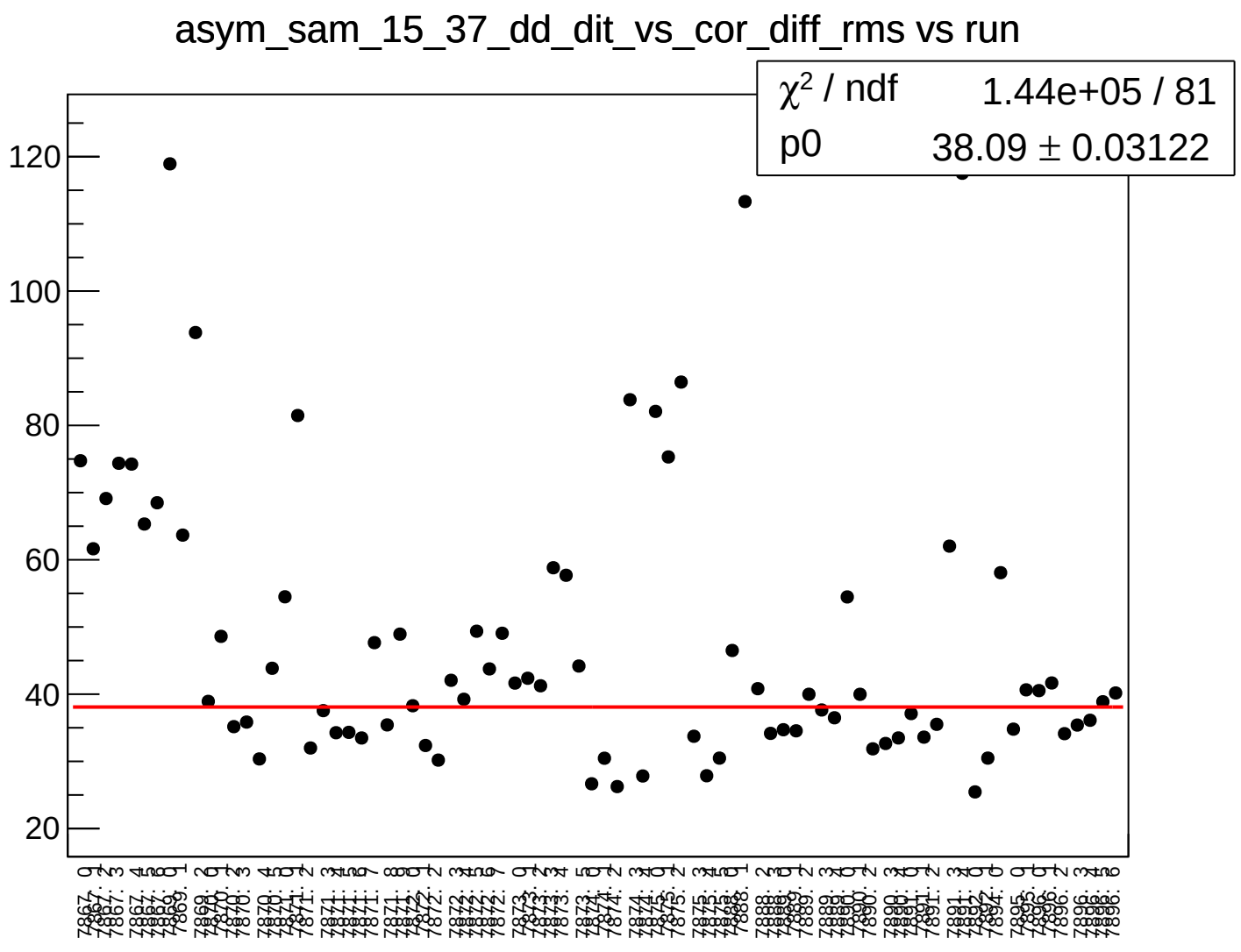

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 63.14 / 81
p0 −3.375e−14 ± 1.725e−13
pull
Entries 82
Mean 30.43
Std Dev 40.68

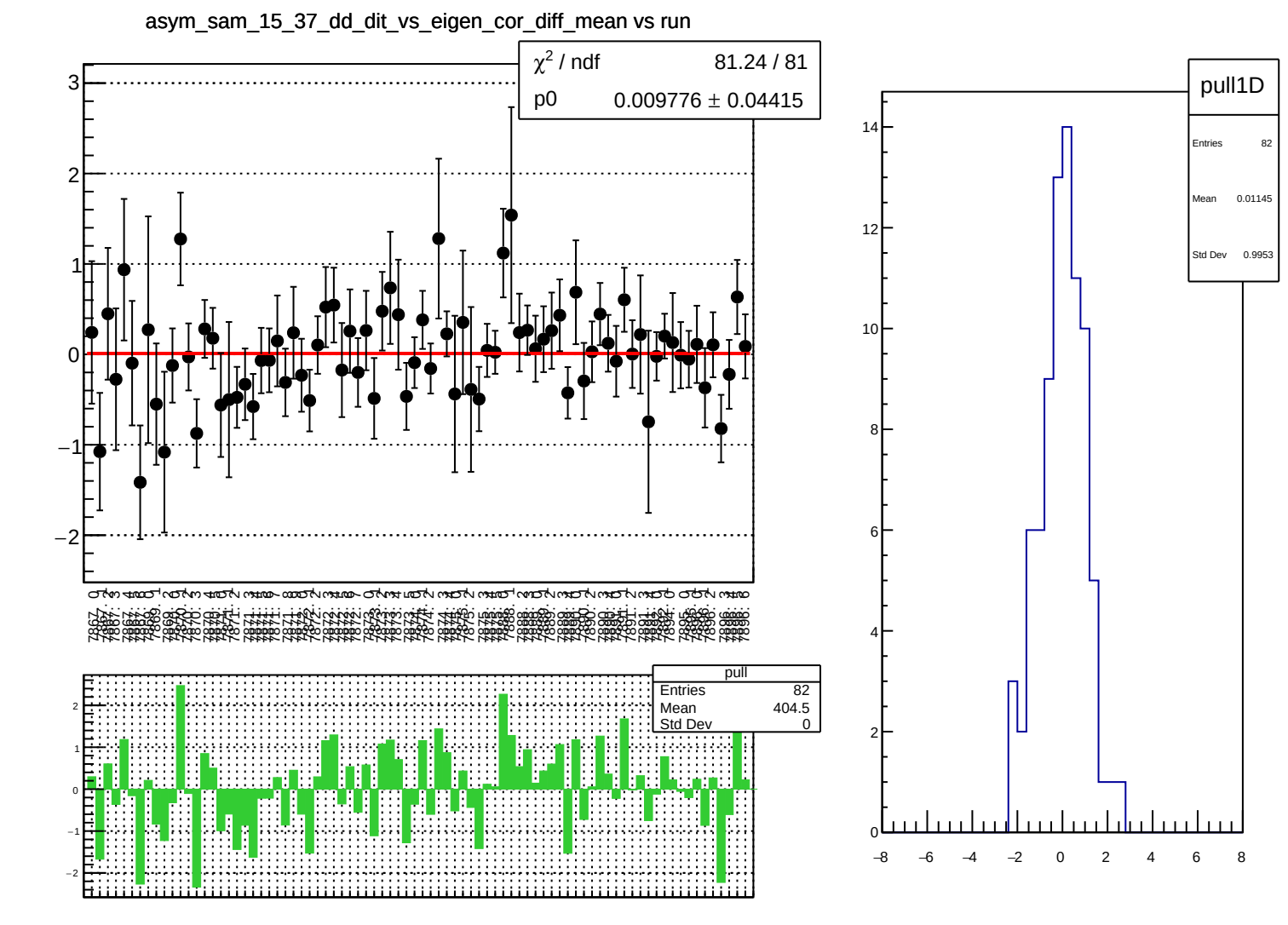

pull1D
Entries 82
Mean 0.07518
Std Dev 0.8743

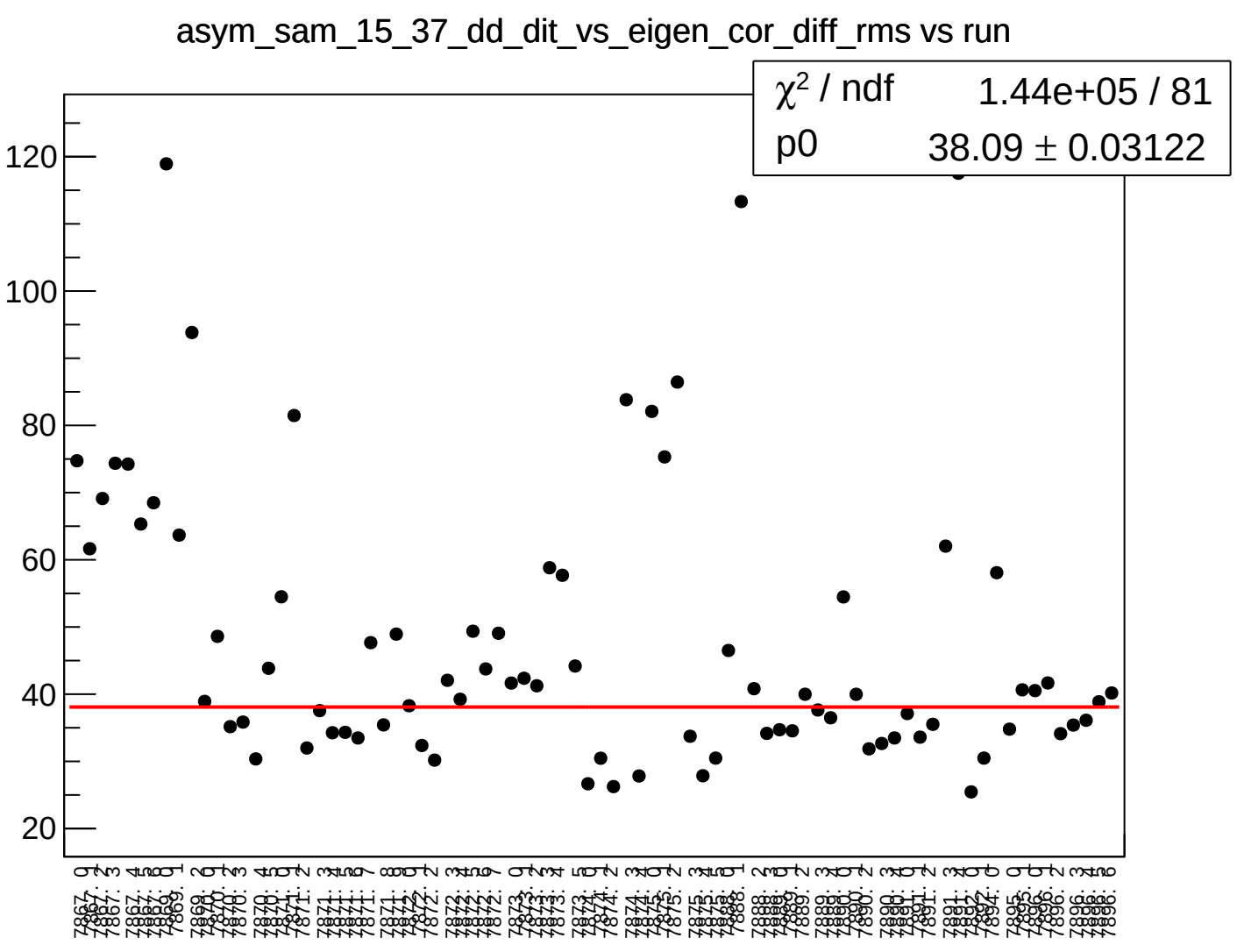

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.201e+06 / 81
p0 8.009e−11 ± 1.22e−13
0.05
0.04
0.03
0.02
0.01
0

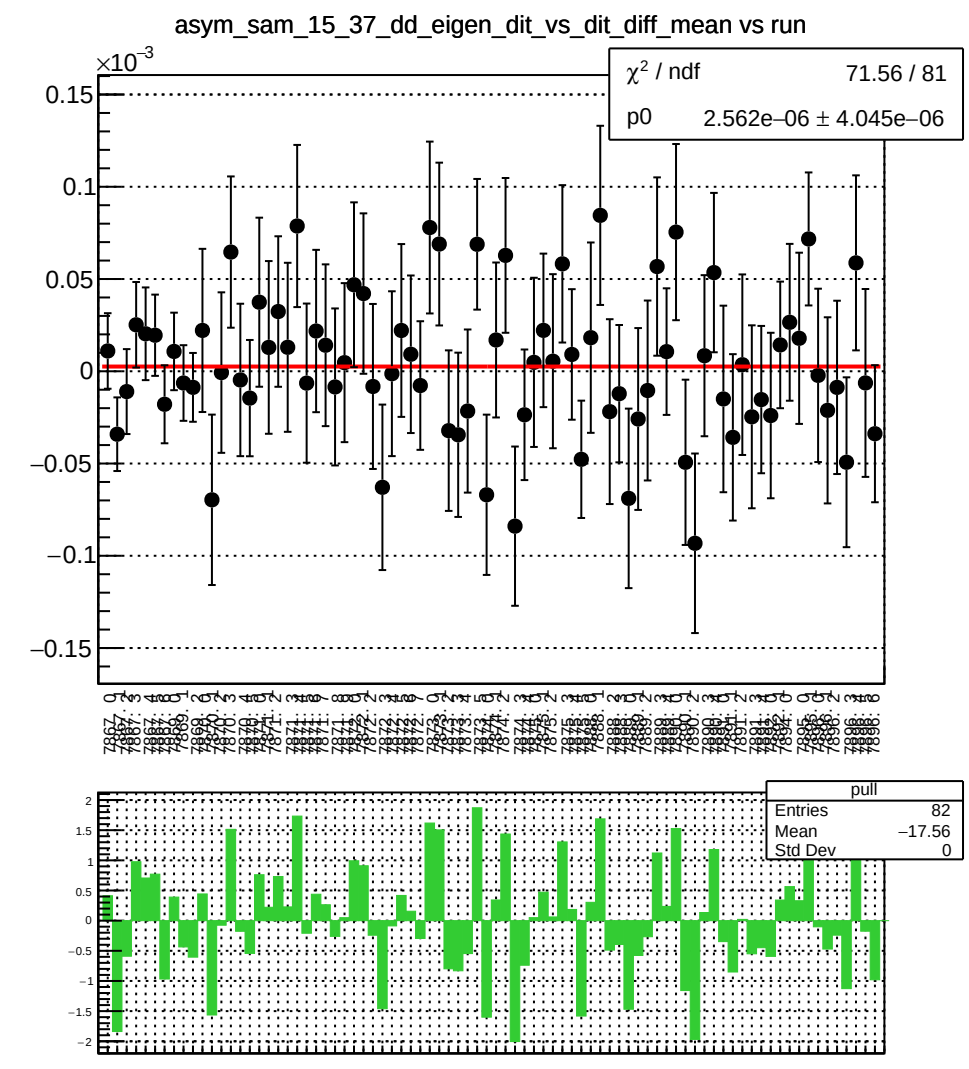

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.24 / 81
p0 0.009776 ± 0.04415
pull
Entries 82
Mean 404.5
Std Dev 0

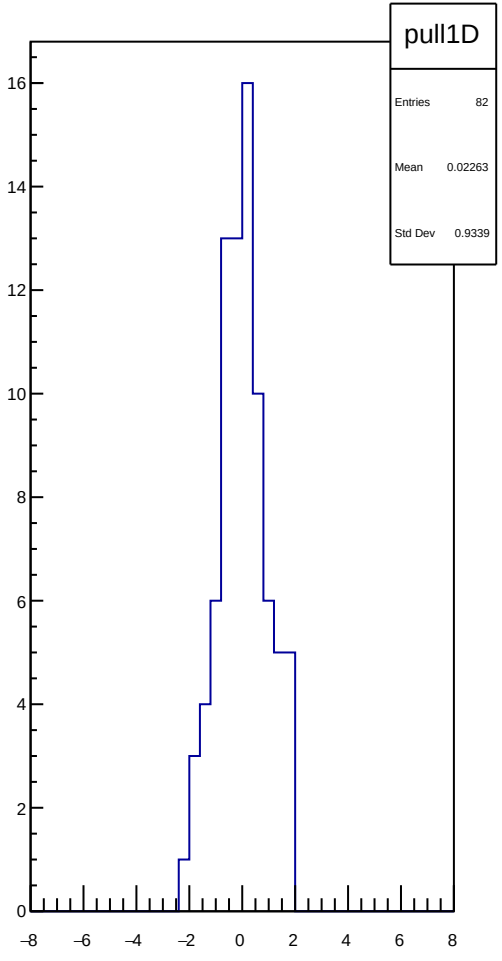

pull1D
Entries 82
Mean 0.01145
Std Dev 0.9953

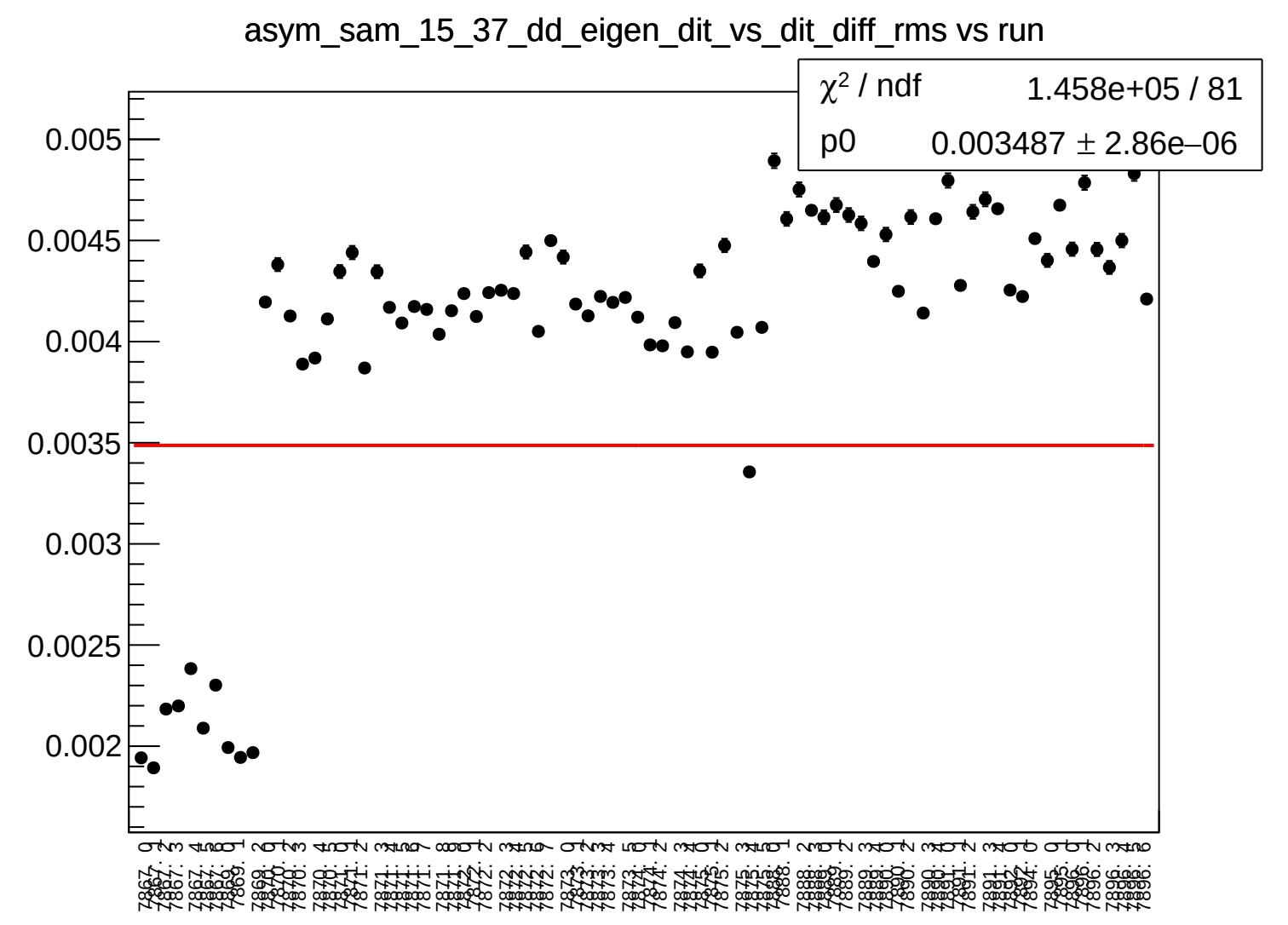

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 81
p0 38.09 ± 0.03122
120
100
80
60
40
20

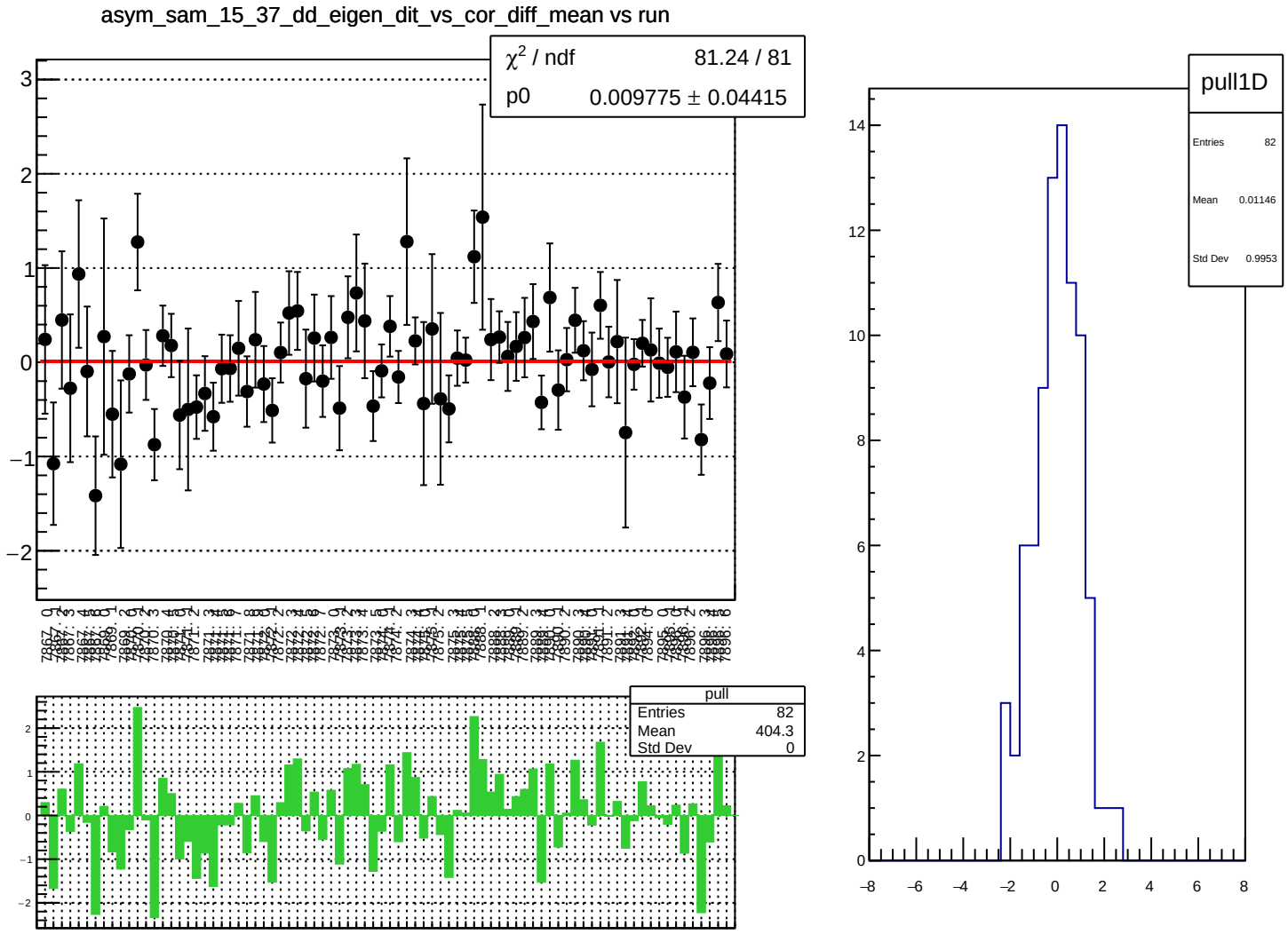

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.24 / 81
p0 0.009776 ± 0.04415
pull
Entries 82
Mean 404.5
Std Dev 0
pull1D
Entries 82
Mean 0.01145
Std Dev 0.9953

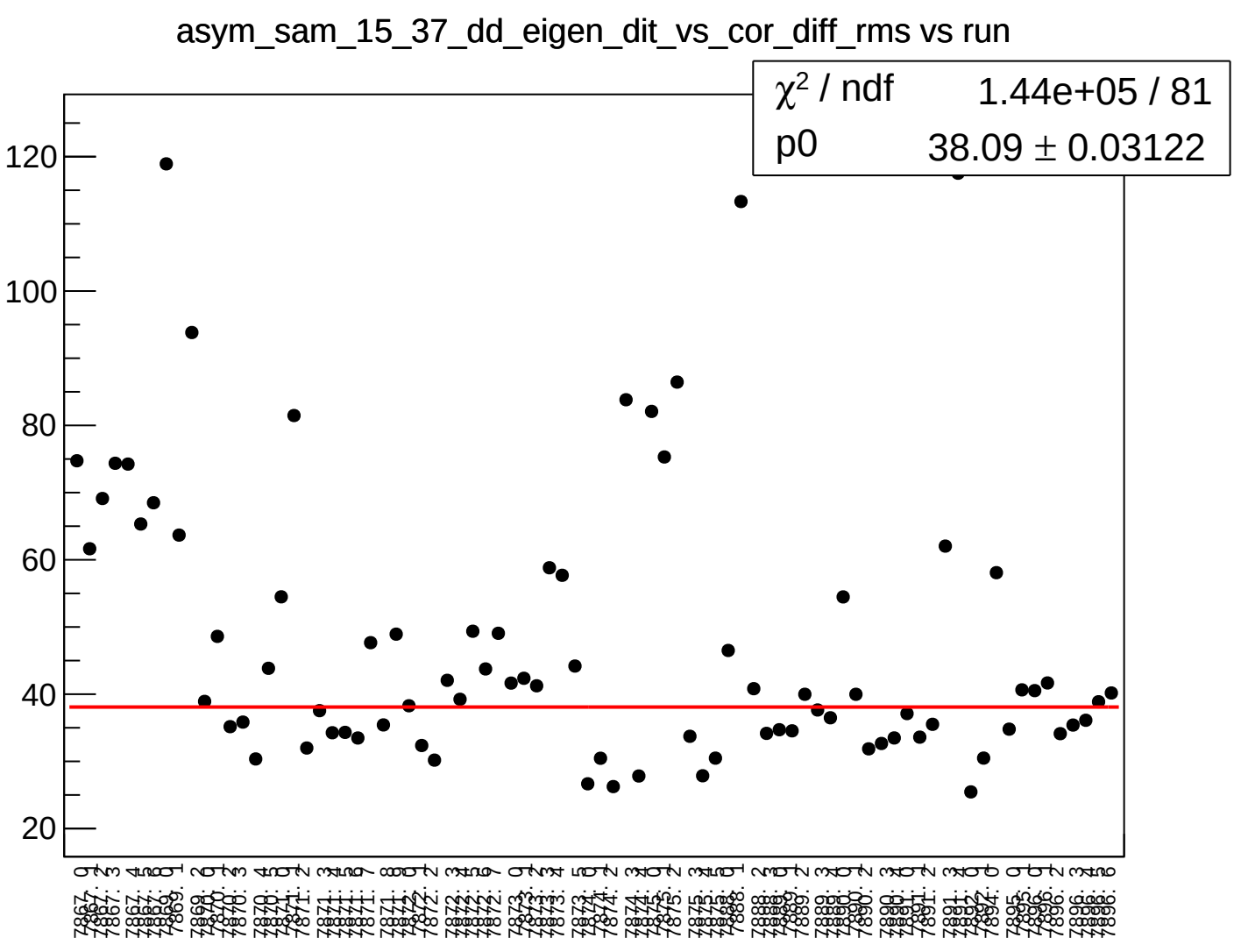

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 81
p0 38.09 ± 0.03122
120
100
80
60
40
20

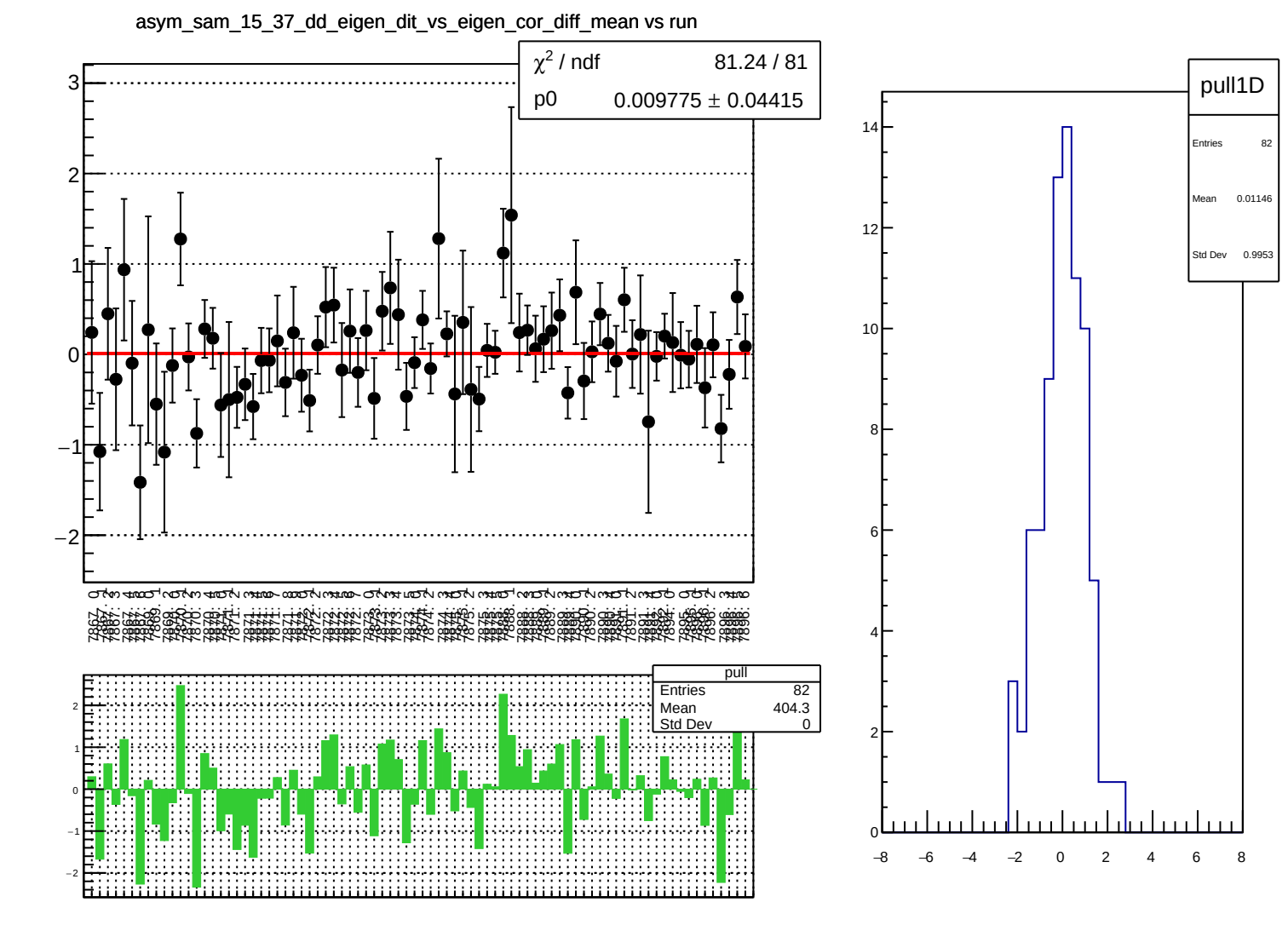

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.56 / 81
p0 2.562e−06 ± 4.045e−06
pull
Entries 82
Mean −17.56
Std Dev 0

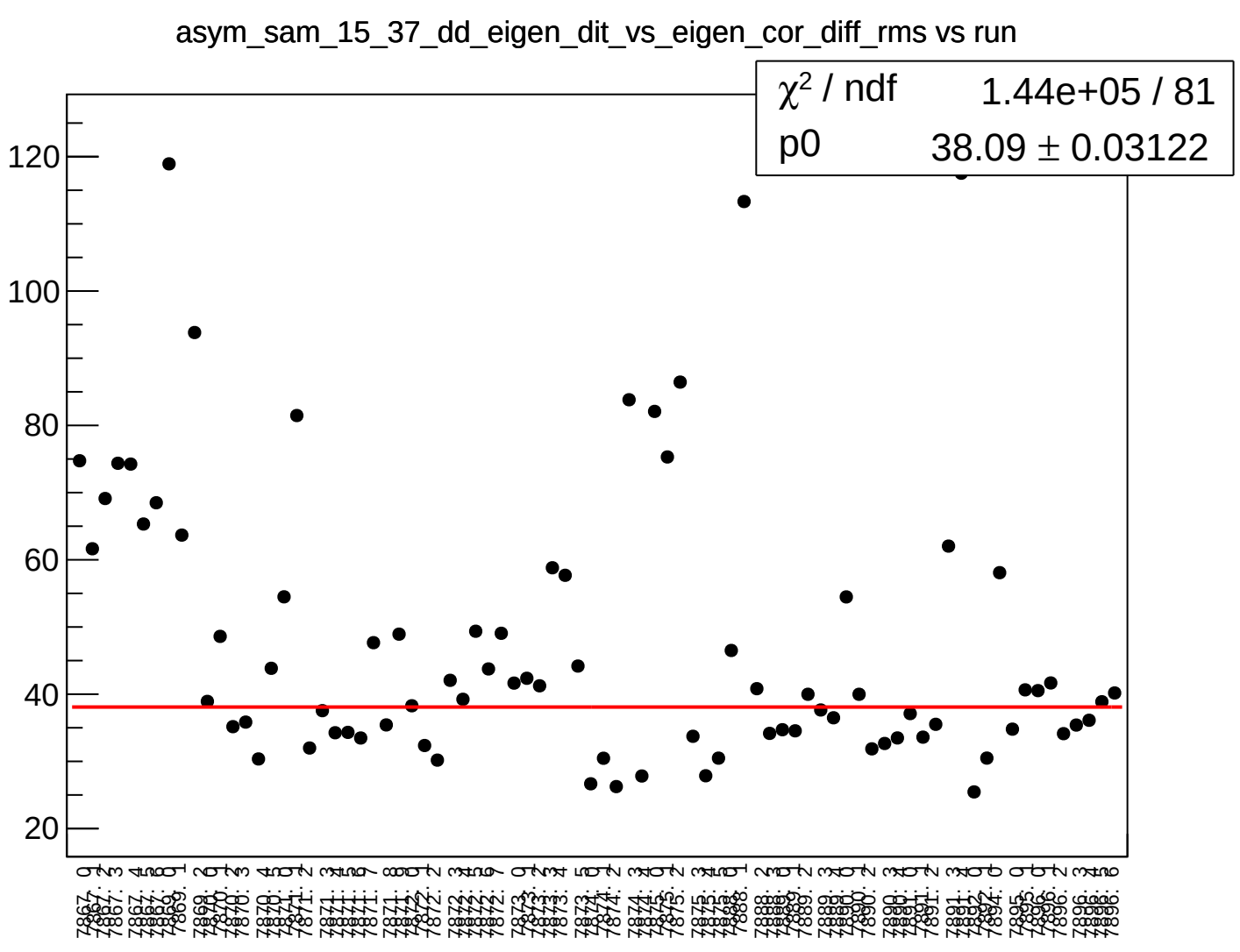

pull1D
Entries 82
Mean 0.02263
Std Dev 0.9339

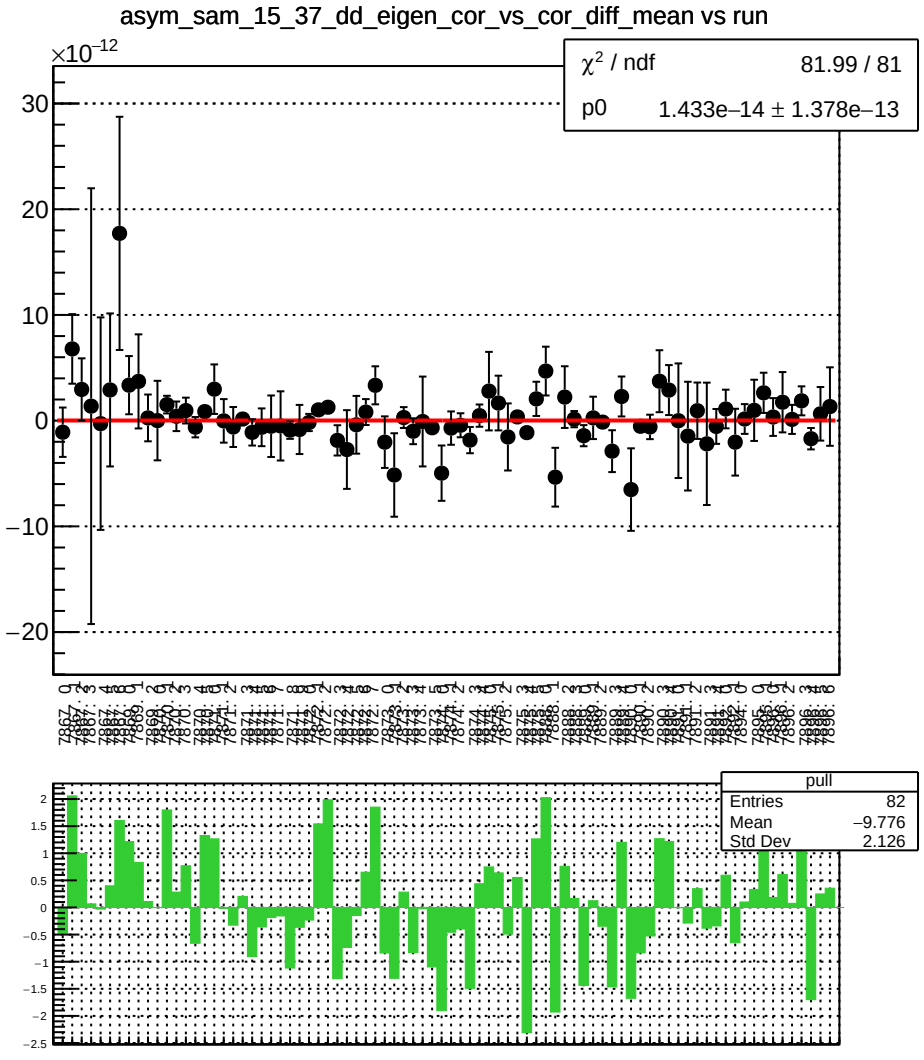

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.458e+05 / 81
p0 0.003487 ± 2.86e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

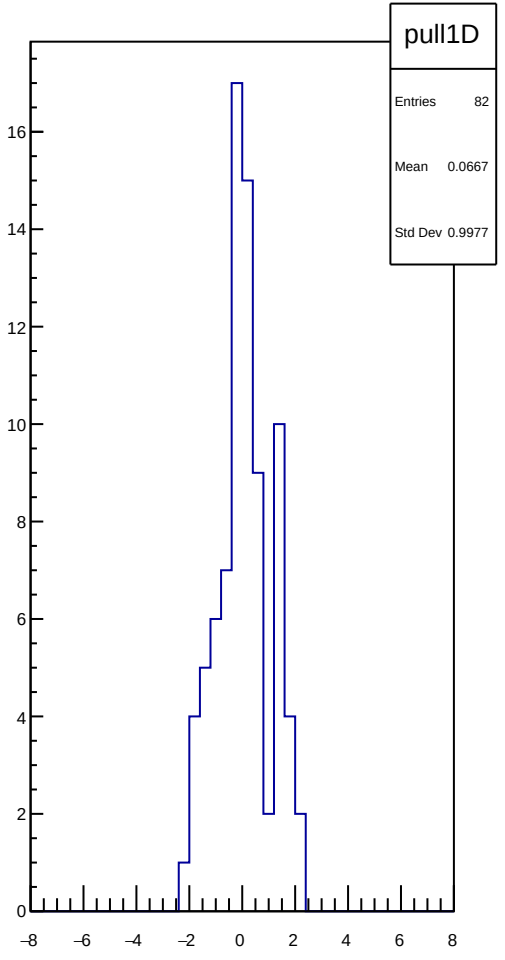

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.24 / 81
p0 0.009775 ± 0.04415
pull
Entries 82
Mean 404.3
Std Dev 0
pull1D
Entries 82
Mean 0.01146
Std Dev 0.9953

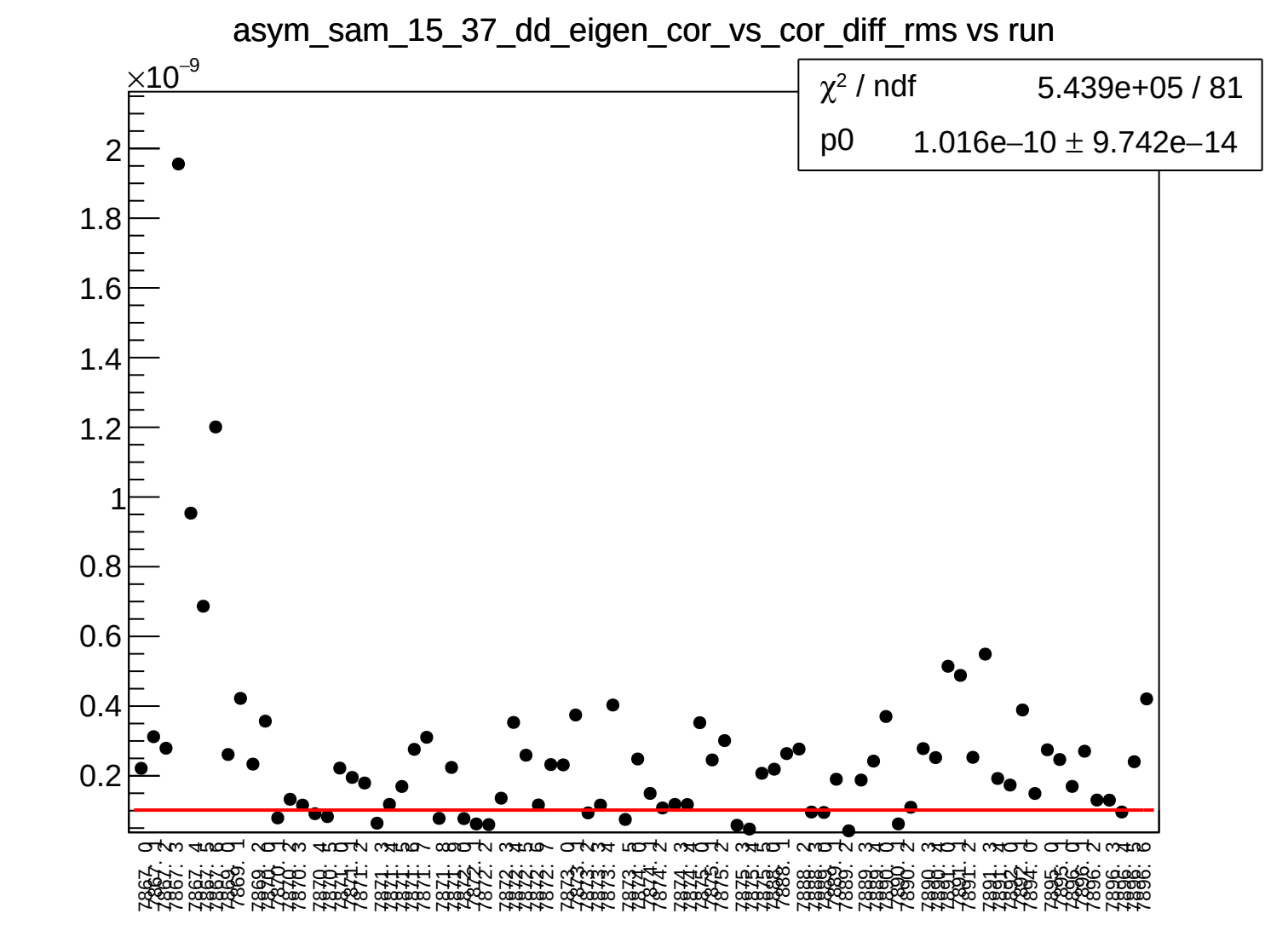

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 81
p0 38.09 ± 0.03122
120
100
80
60
40
20

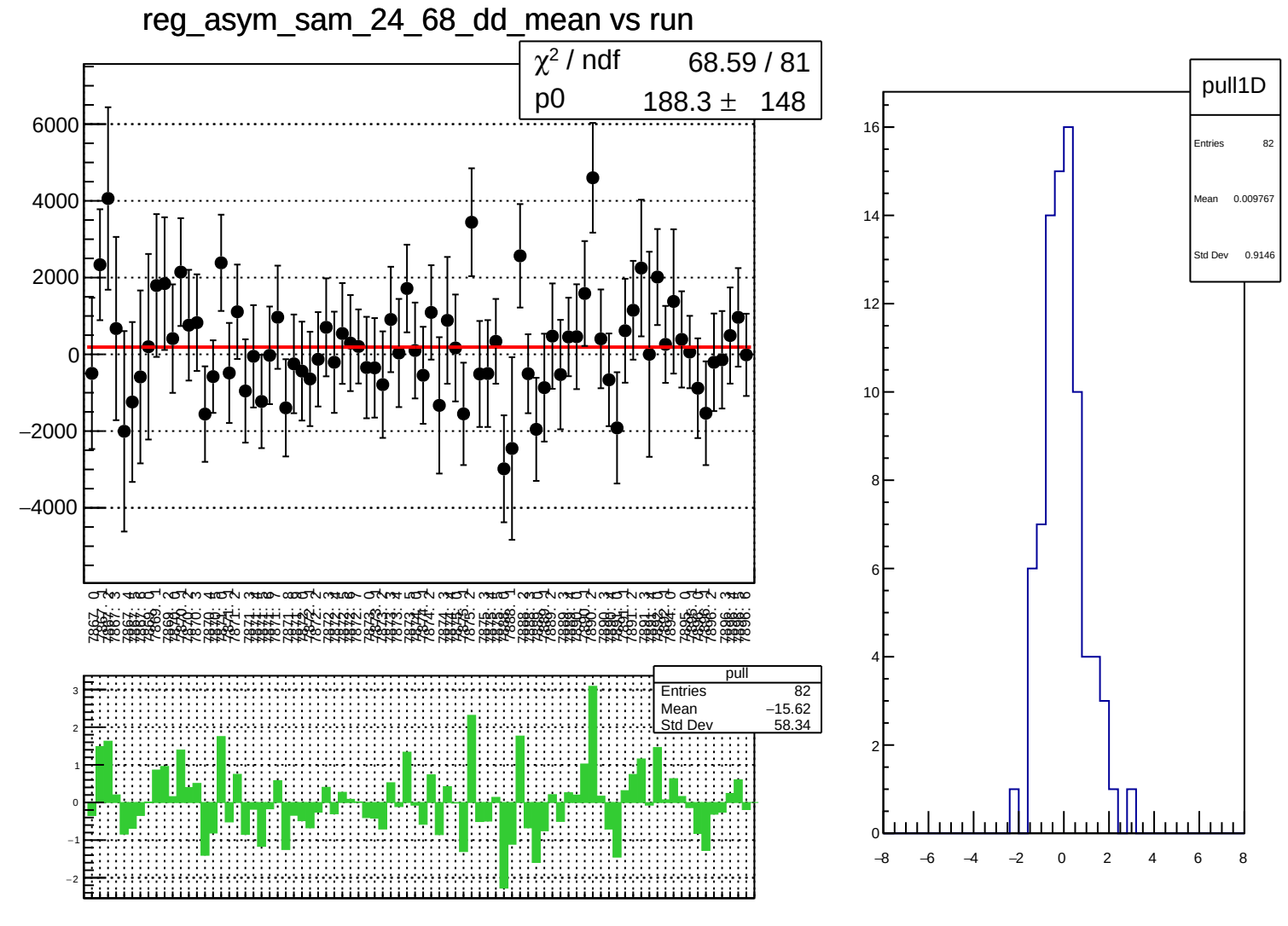

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.24 / 81
p0 0.009775 ± 0.04415
pull
Entries 82
Mean 404.3
Std Dev 0
pull1D
Entries 82
Mean 0.01146
Std Dev 0.9953

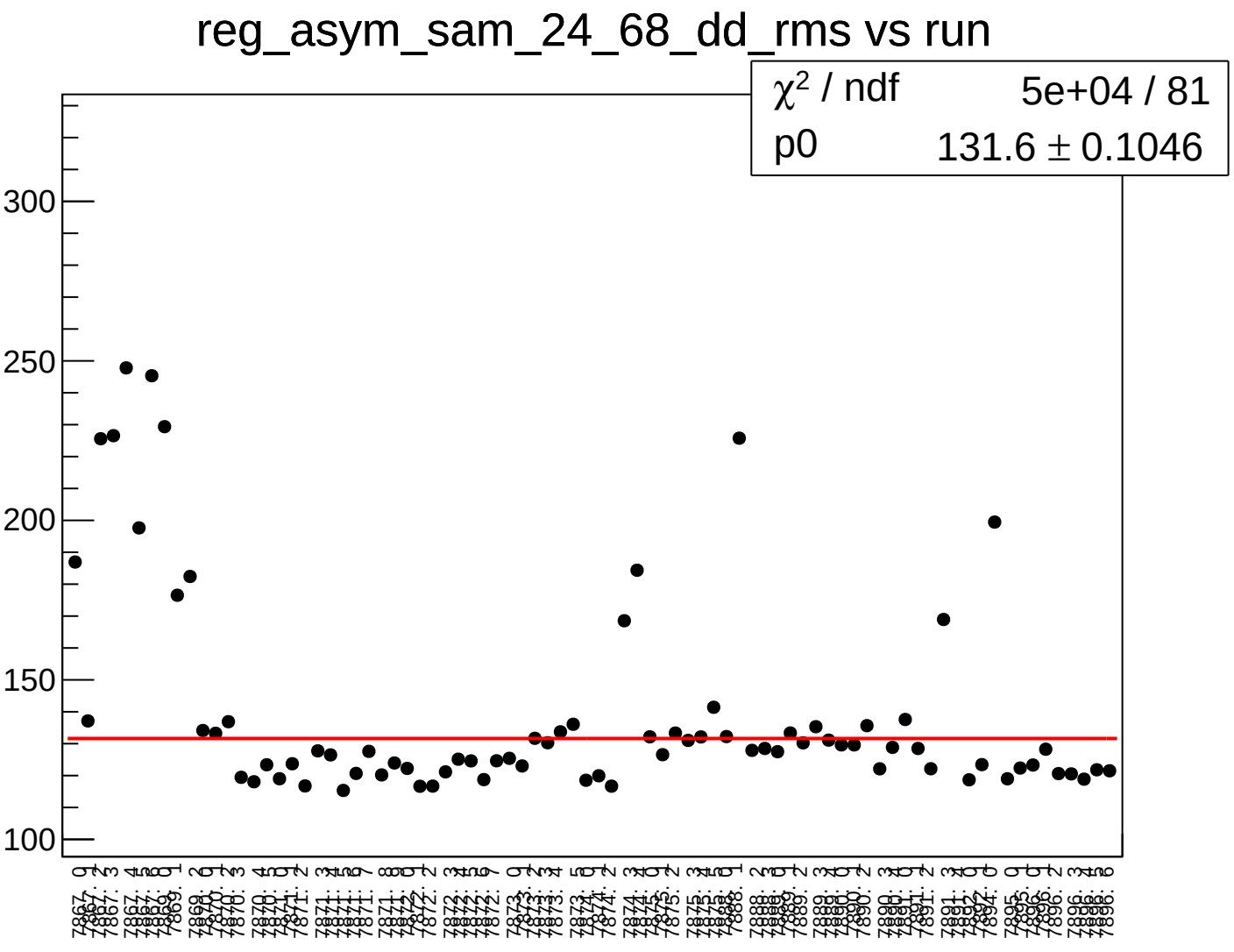

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 81
p0 38.09 ± 0.03122
120
100
80
60
40
20

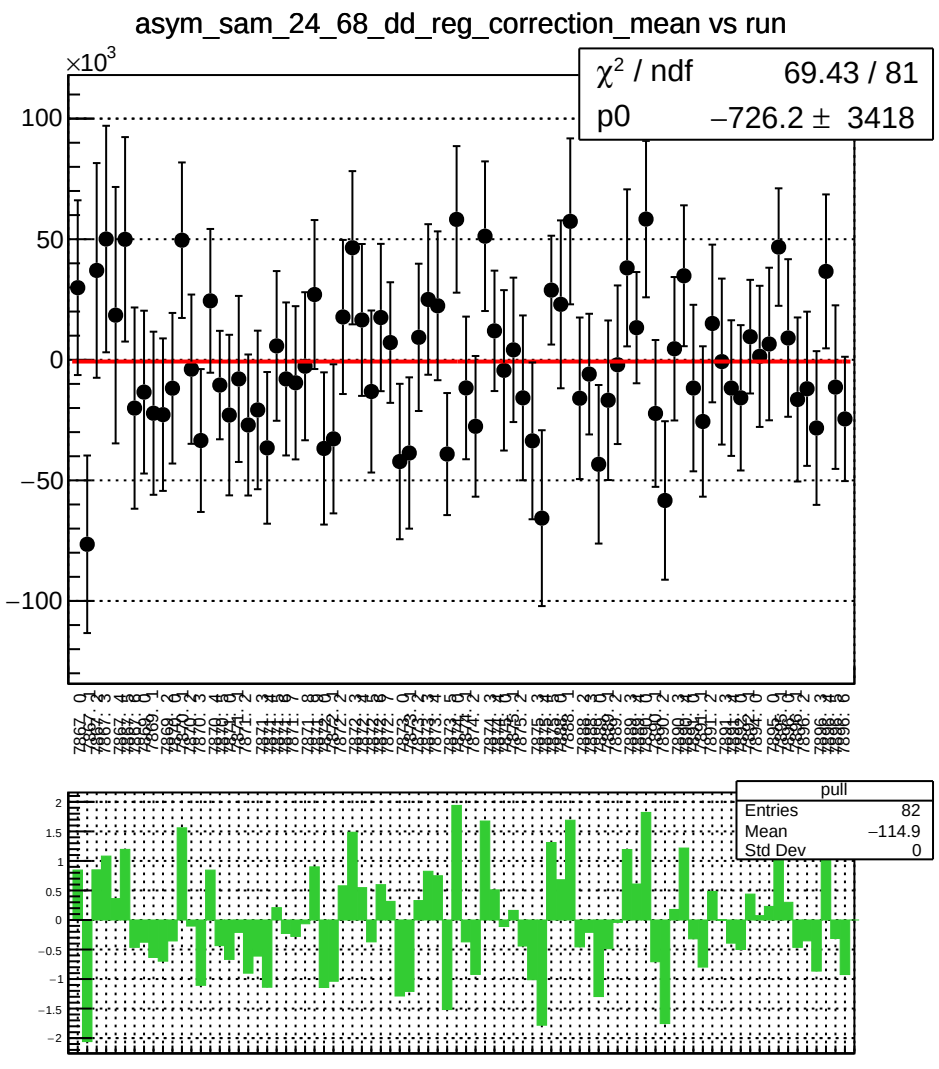

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.99 / 81
p0 1.433e−14 ± 1.378e−13
30
20
10
0
−10
−20
pull
Entries 82
Mean −9.776
Std Dev 2.126
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

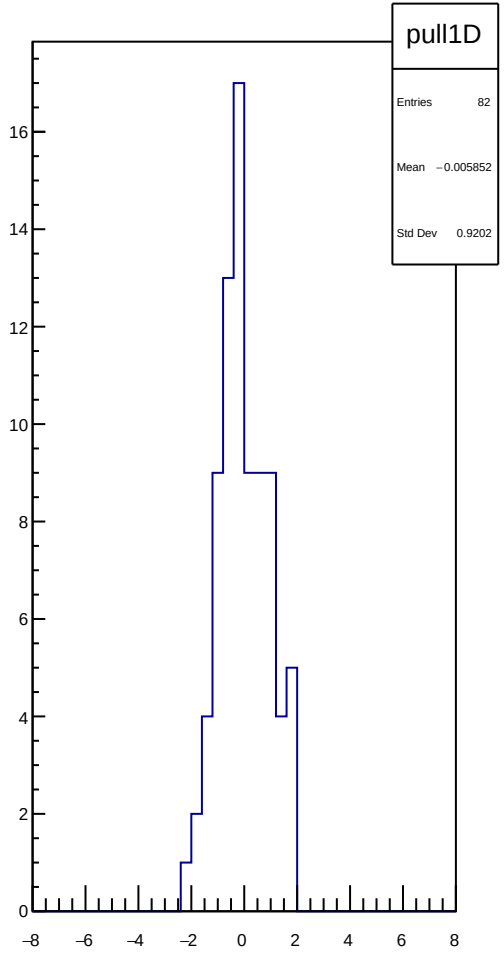

pull1D
Entries 82
Mean 0.0667
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

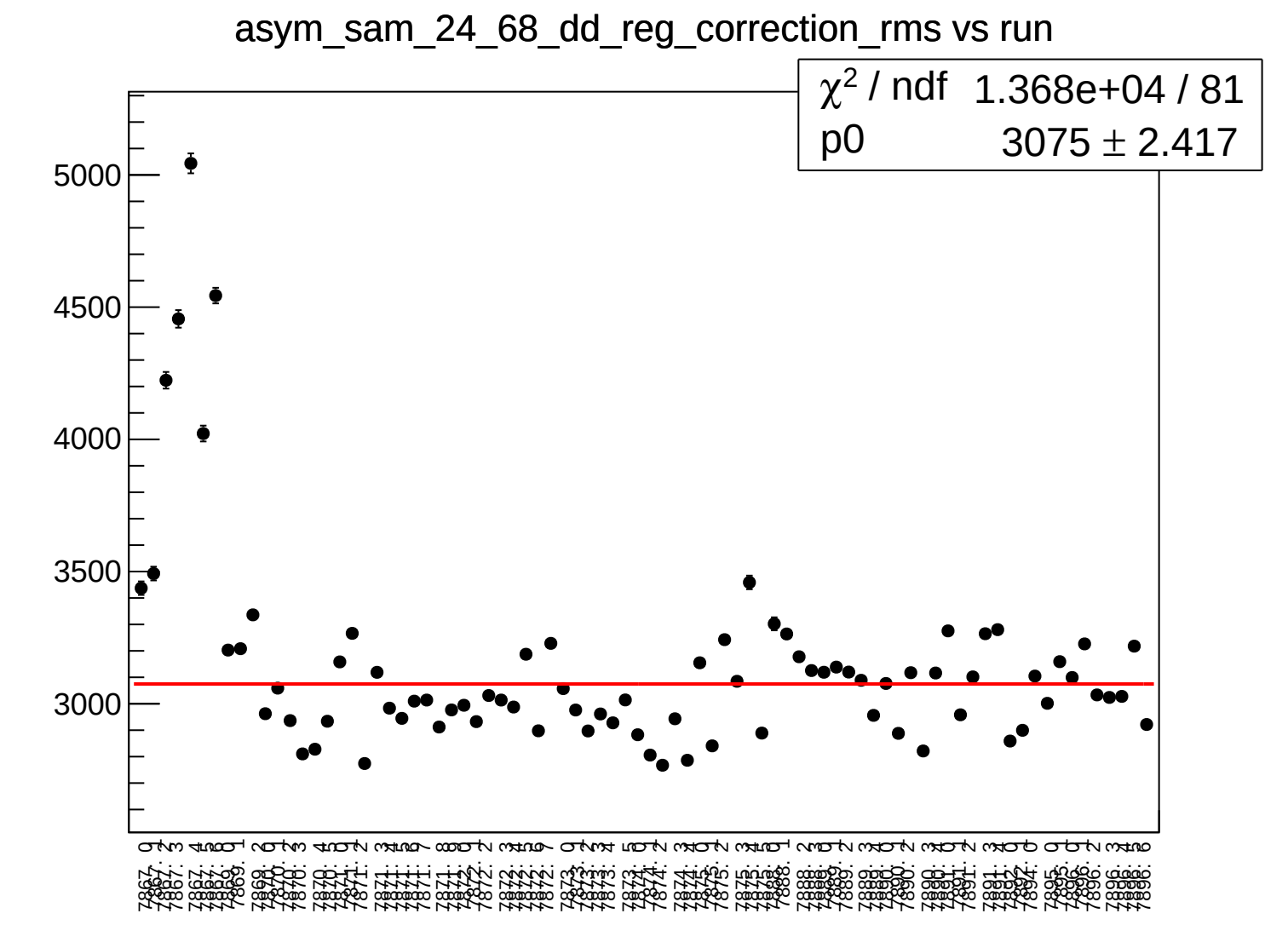

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.439e+05 / 81
p0 1.016e−10 ± 9.742e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

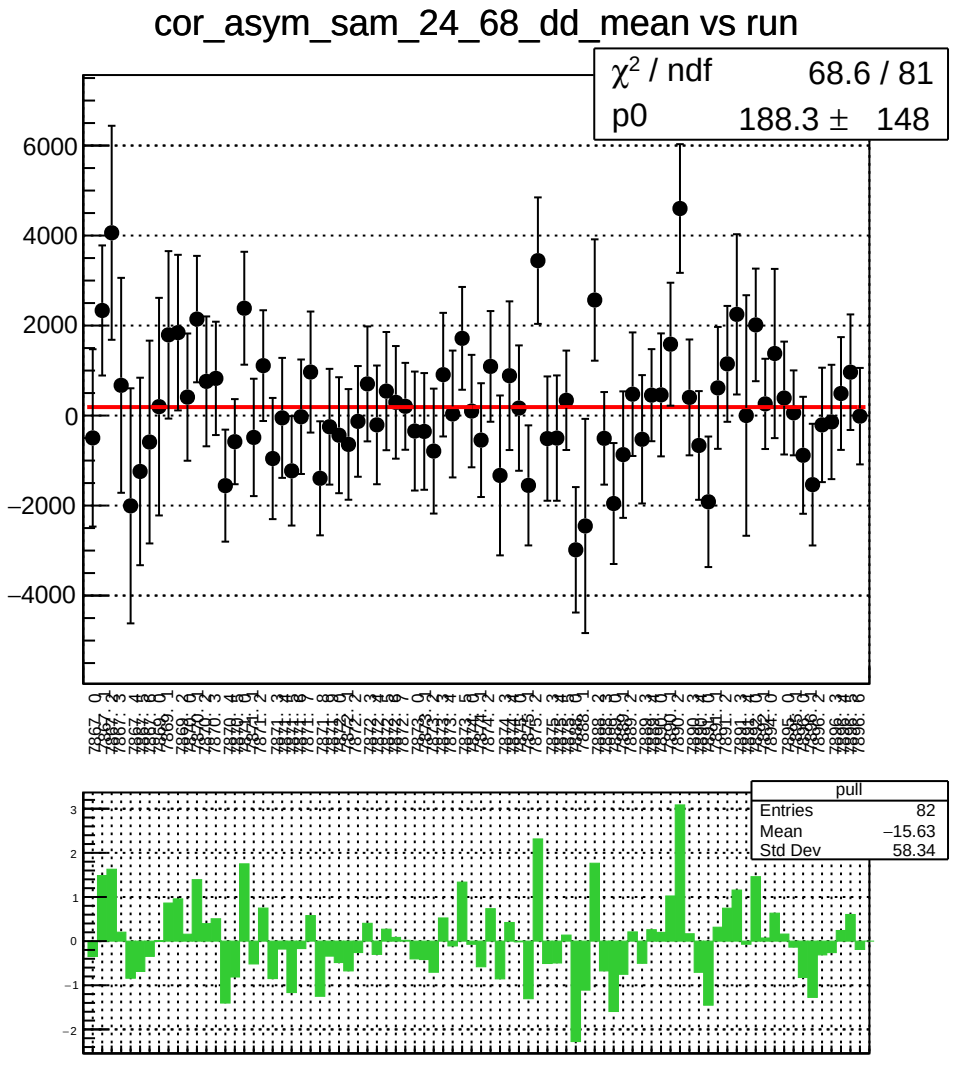

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 68.59 / 81
p0 188.3 ± 148
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −15.62
Std Dev 58.34
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.009767
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

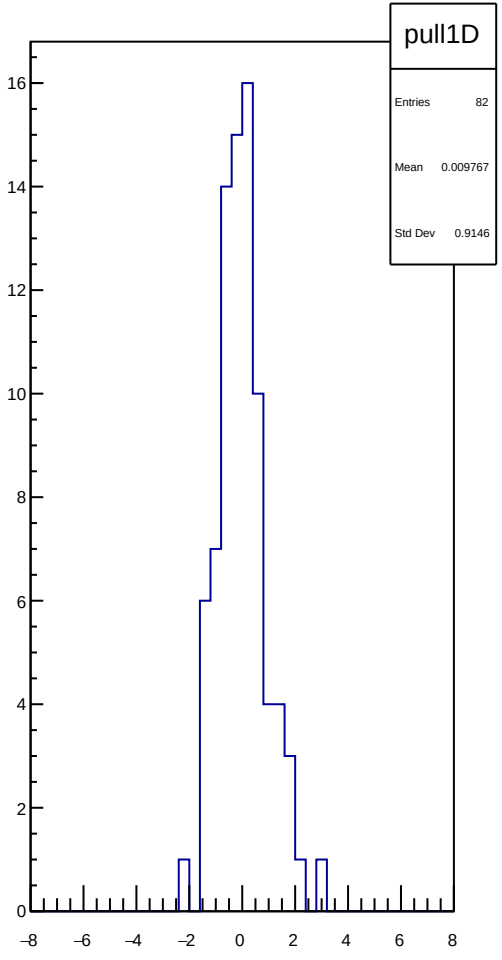

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 5e+04 / 81
p0 131.6 ± 0.1046
300
250
200
150
100

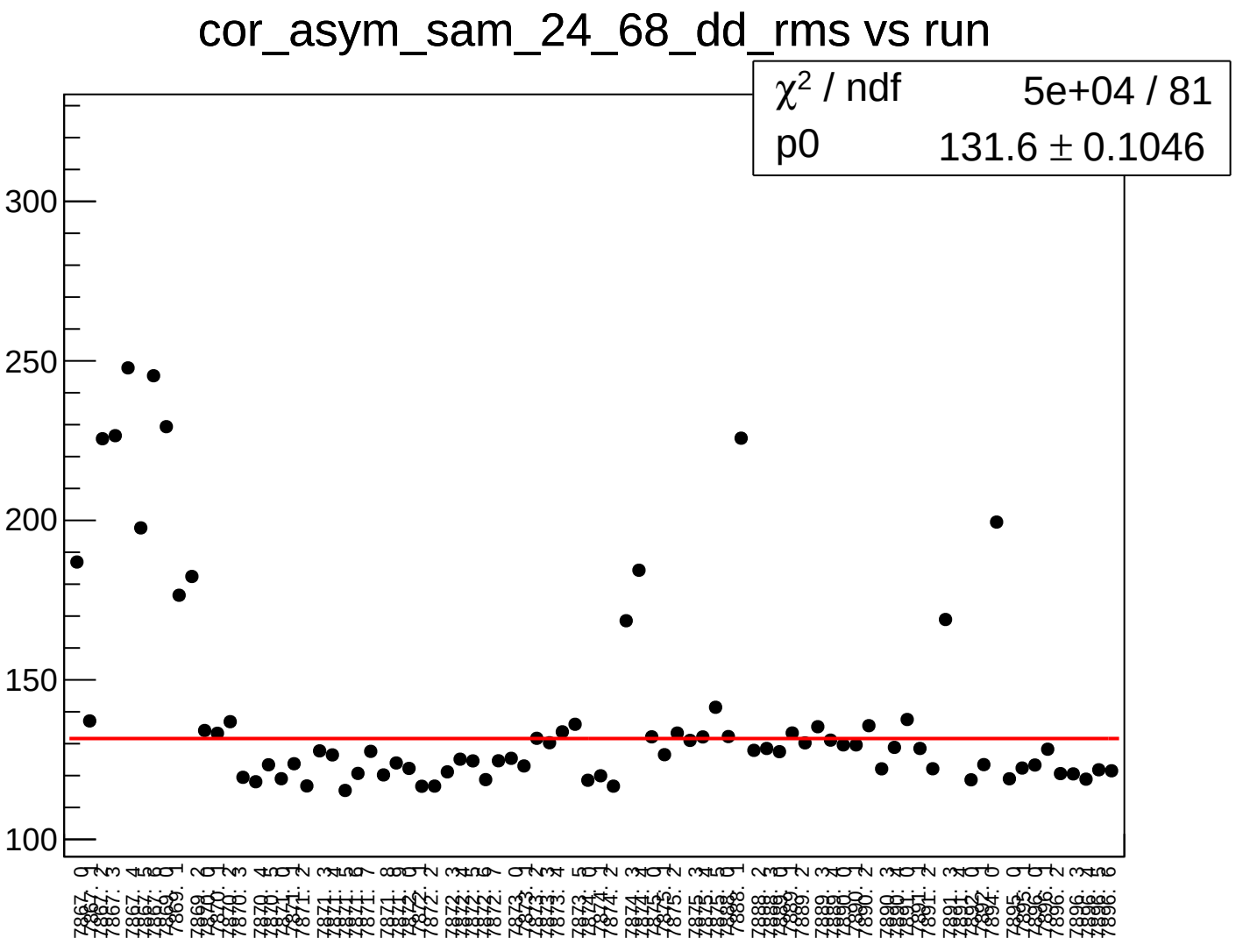

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.43 / 81
p0 −726.2 ± 3418
pull
Entries 82
Mean −114.9
Std Dev 0

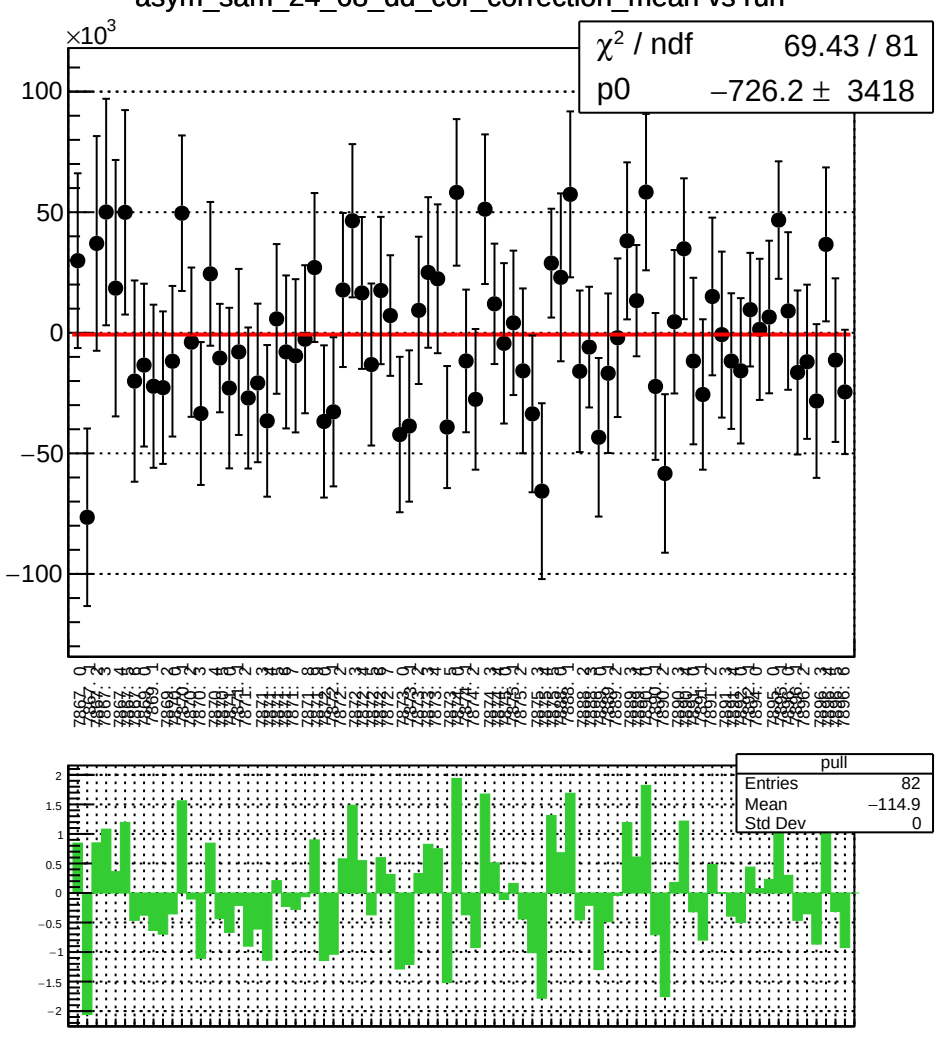

pull1D
Entries 82
Mean −0.005852
Std Dev 0.9202

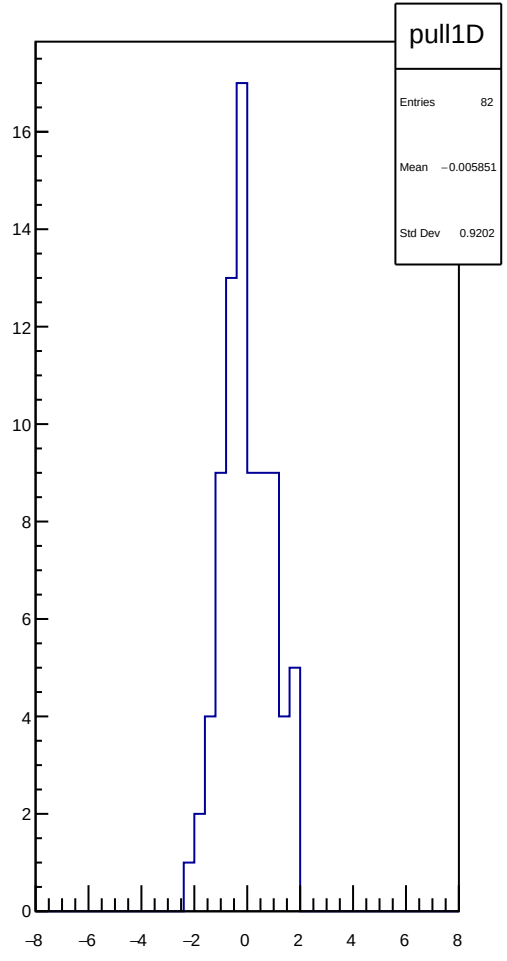

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.368e+04 / 81
p0 3075 ± 2.417
5000
4500
4000
3500
3000

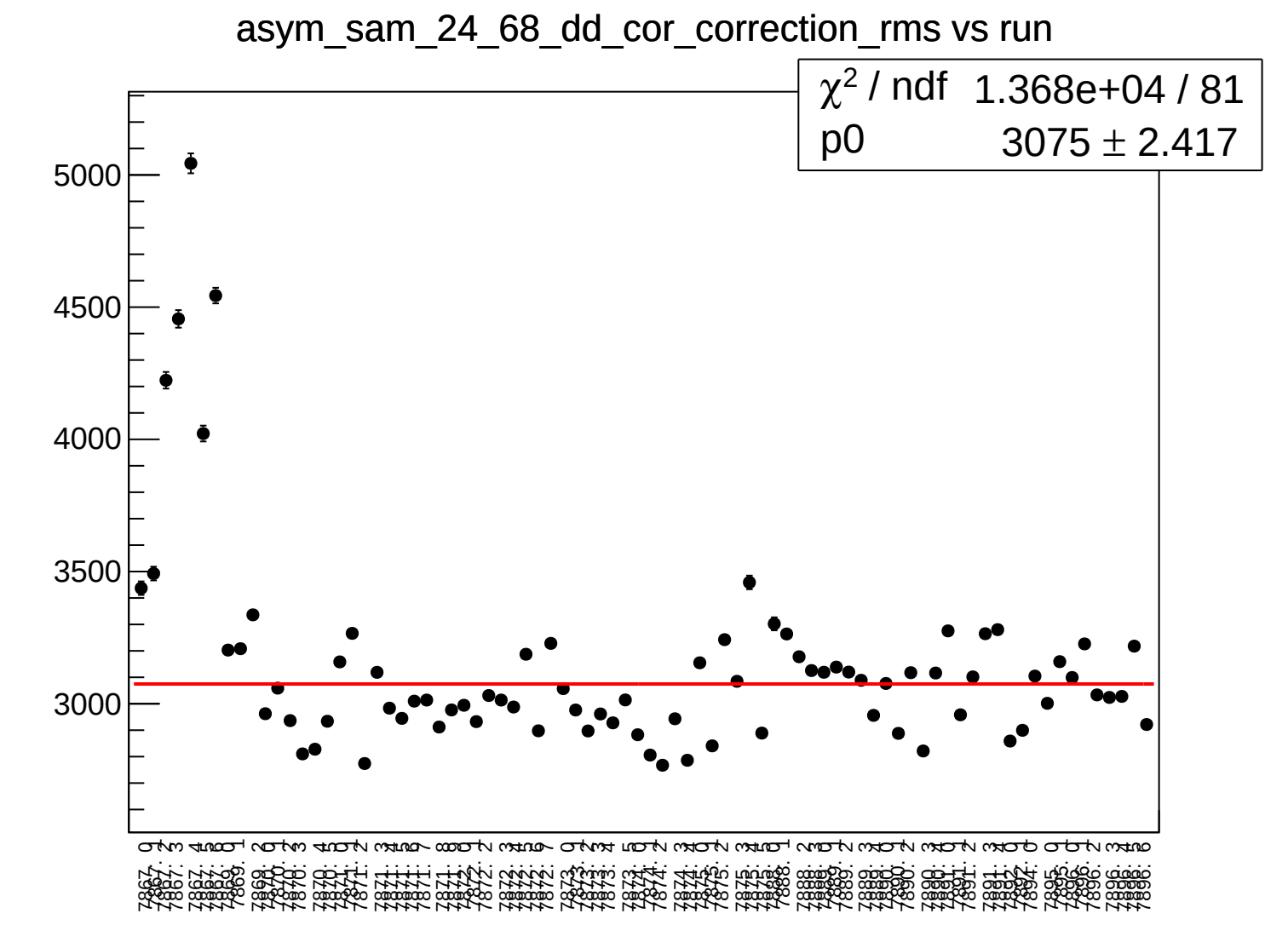

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 68.6 / 81
p0 188.3 ± 148
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −15.63
Std Dev 58.34
3
2
1
0
−1
−2

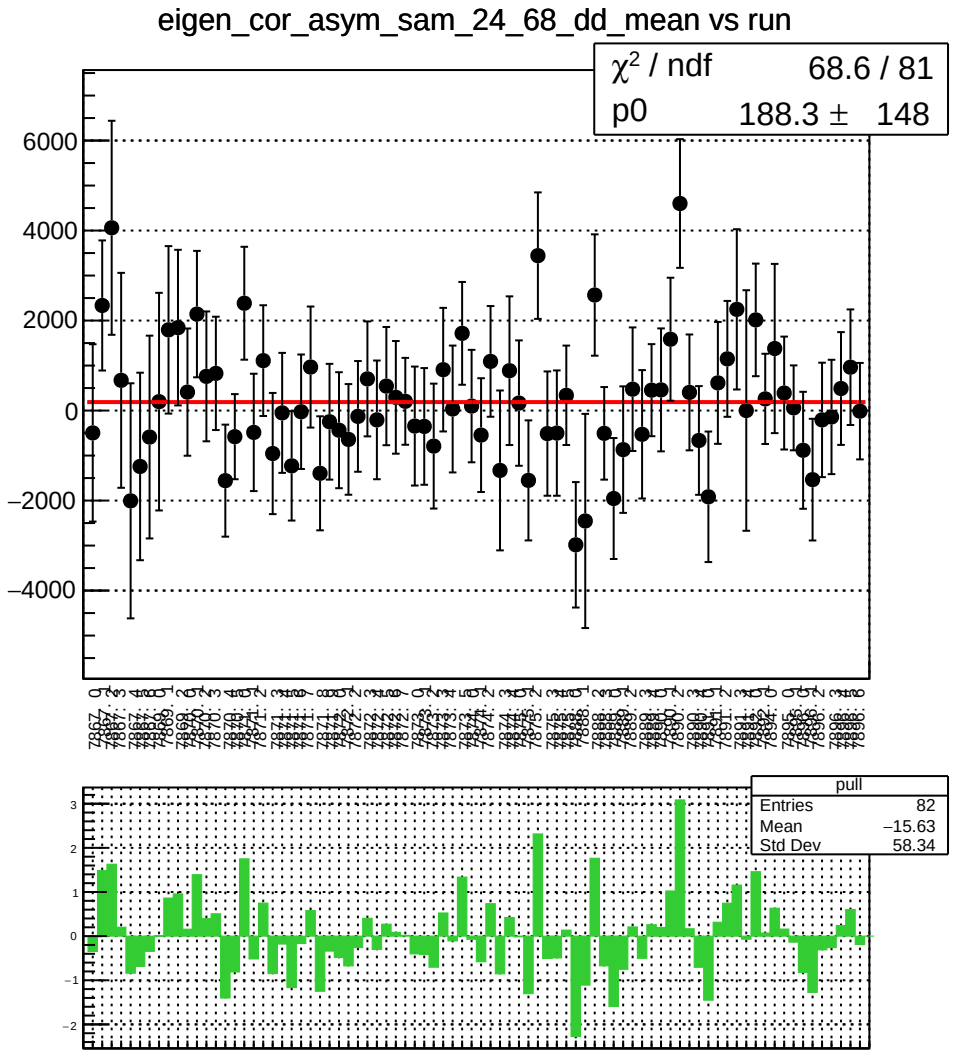

pull1D
Entries 82
Mean 0.009767
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

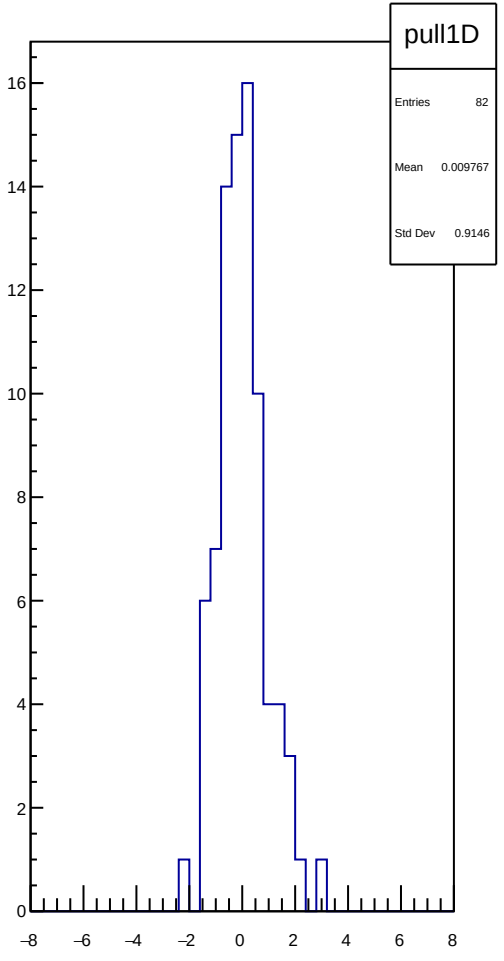

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5e+04 / 81
p0 131.6 ± 0.1046
300
250
200
150
100

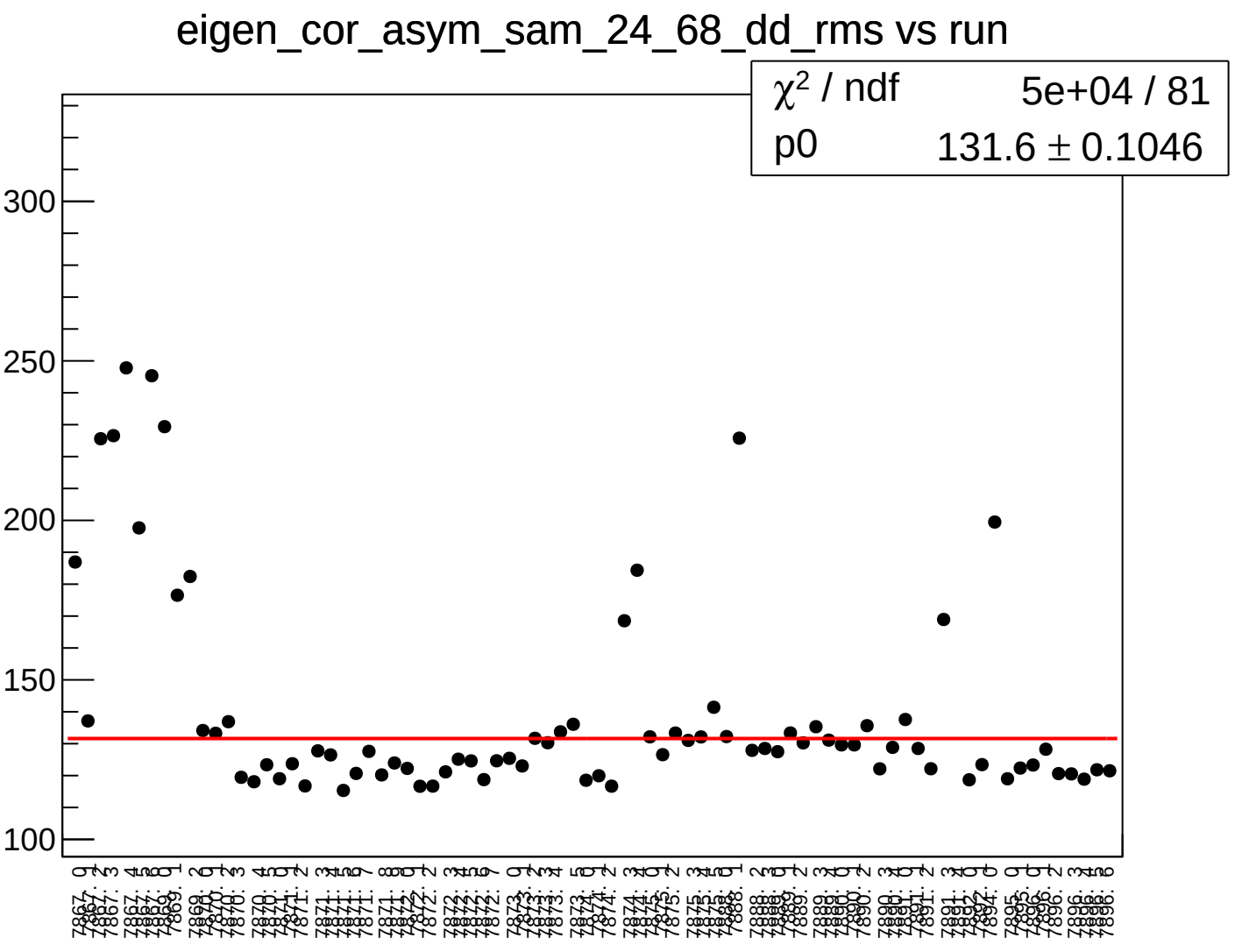

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.43 / 81
p0 −726.2 ± 3418
100
50
0
−50
−100
pull
Entries 82
Mean −114.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

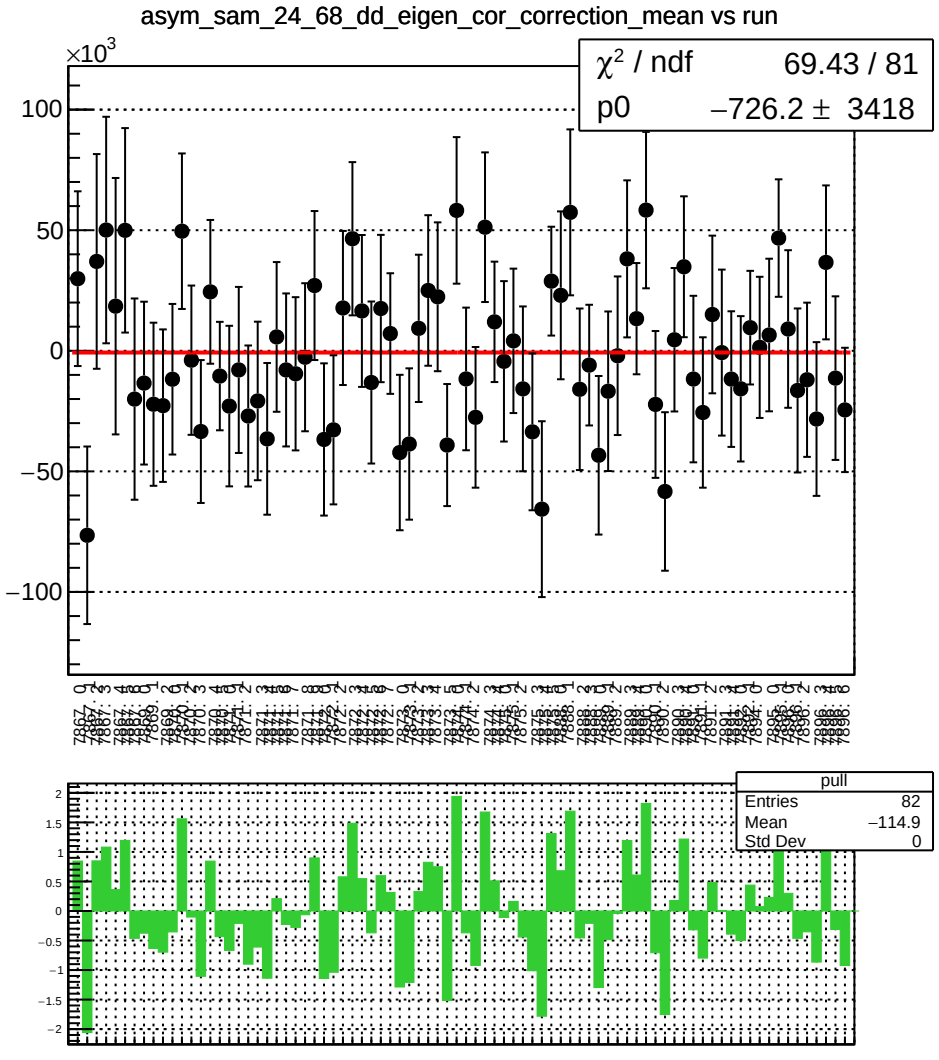

pull1D
Entries 82
Mean −0.005851
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

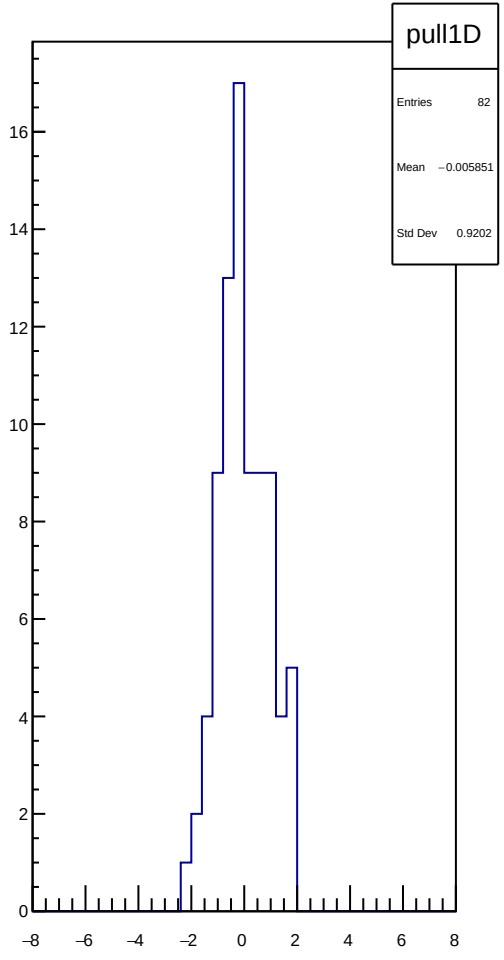

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.368e+04 / 81
p0 3075 ± 2.417
5000
4500
4000
3500
3000

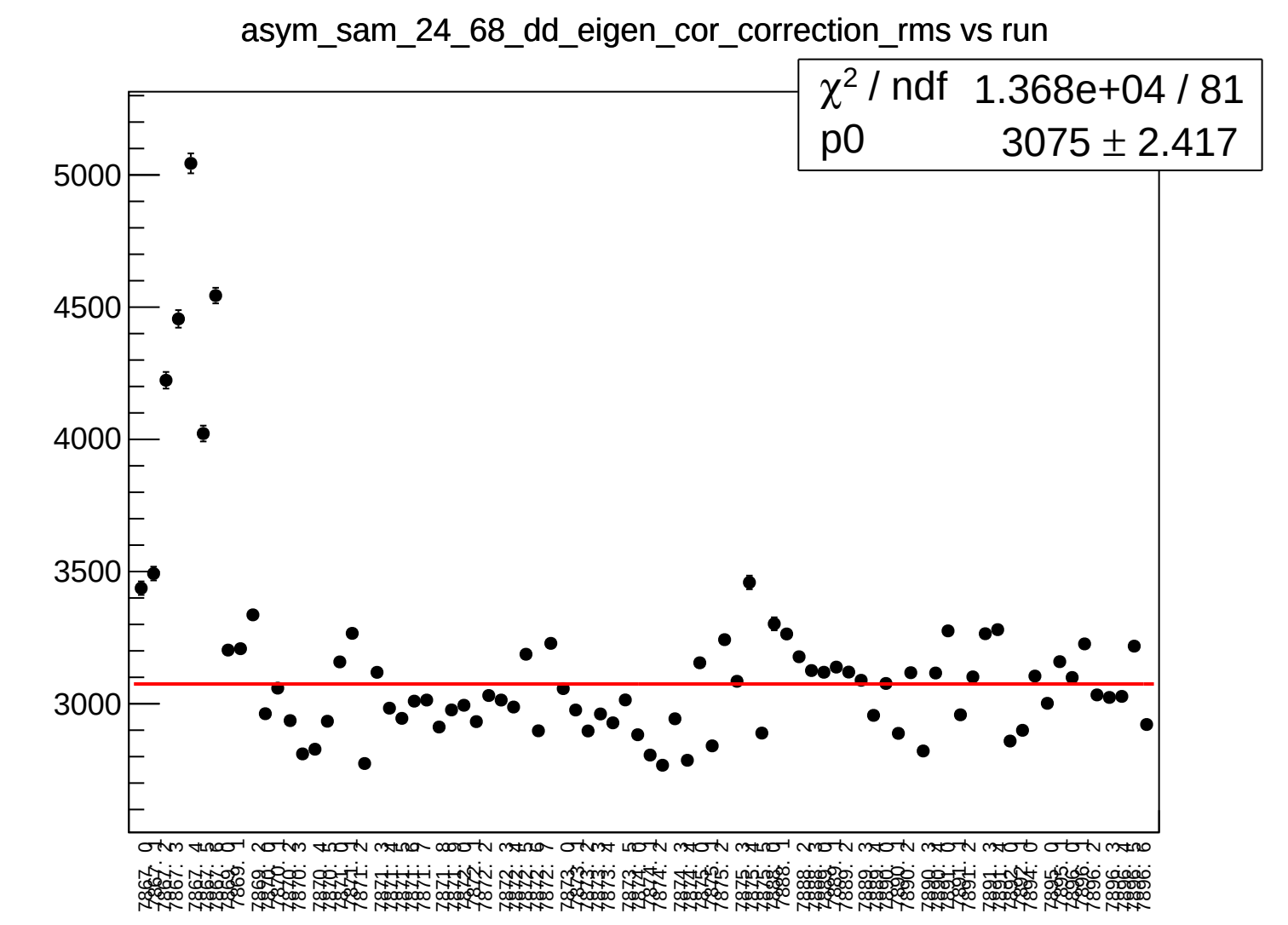

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 68.6 / 81
p0 188.3 ± 148
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −15.63
Std Dev 58.34
3
2
1
0
−1
−2

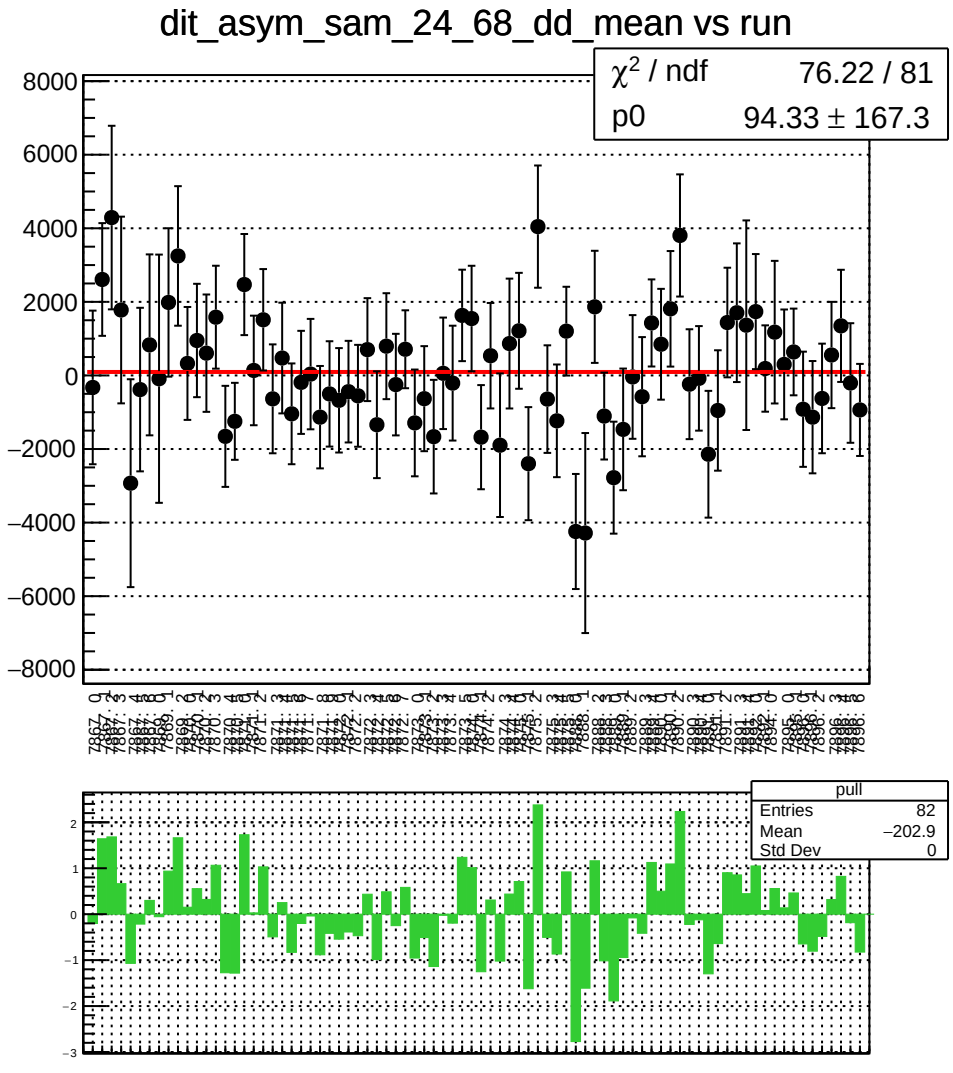

pull1D
Entries 82
Mean 0.009767
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

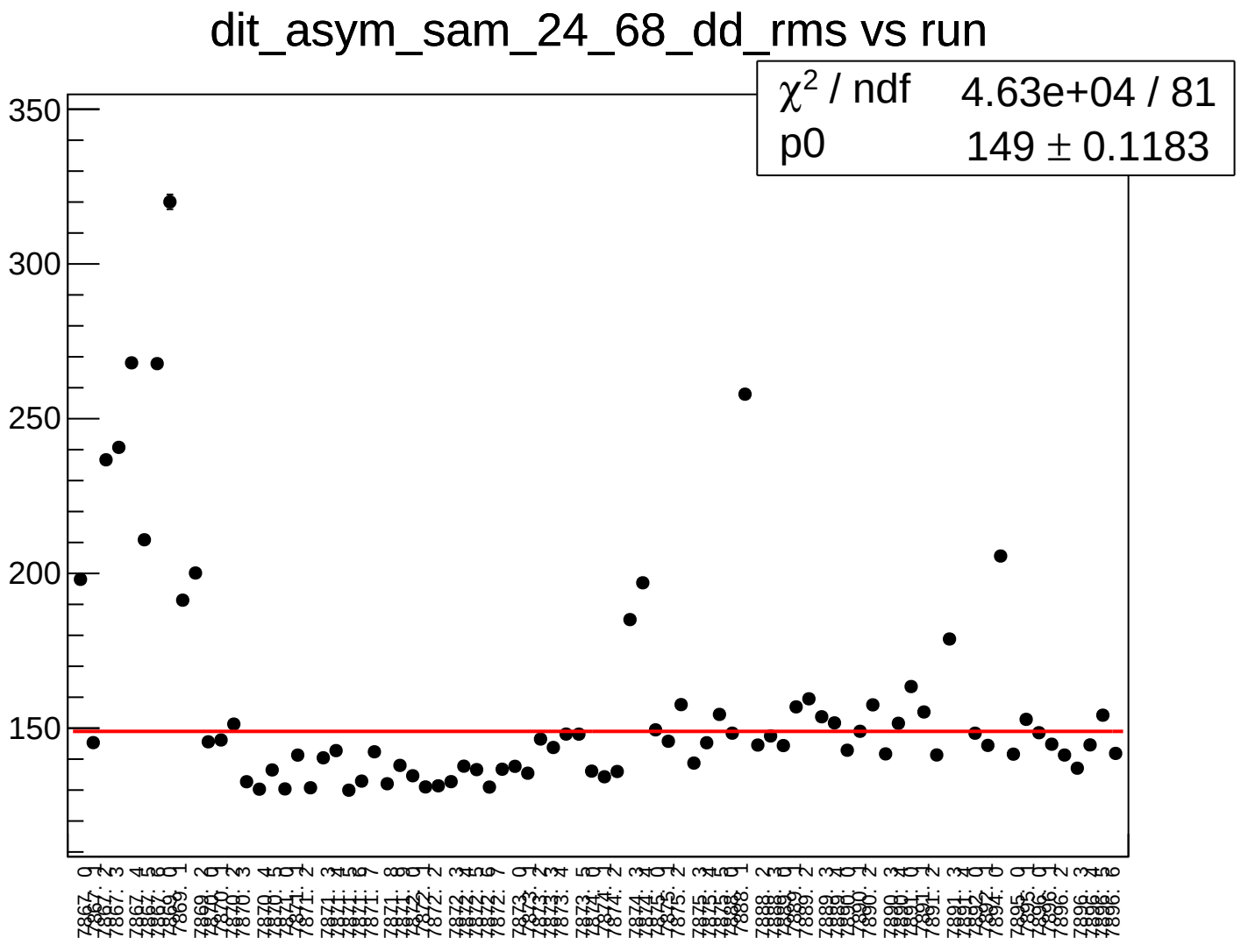

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5e+04 / 81
p0 131.6 ± 0.1046
300
250
200
150
100

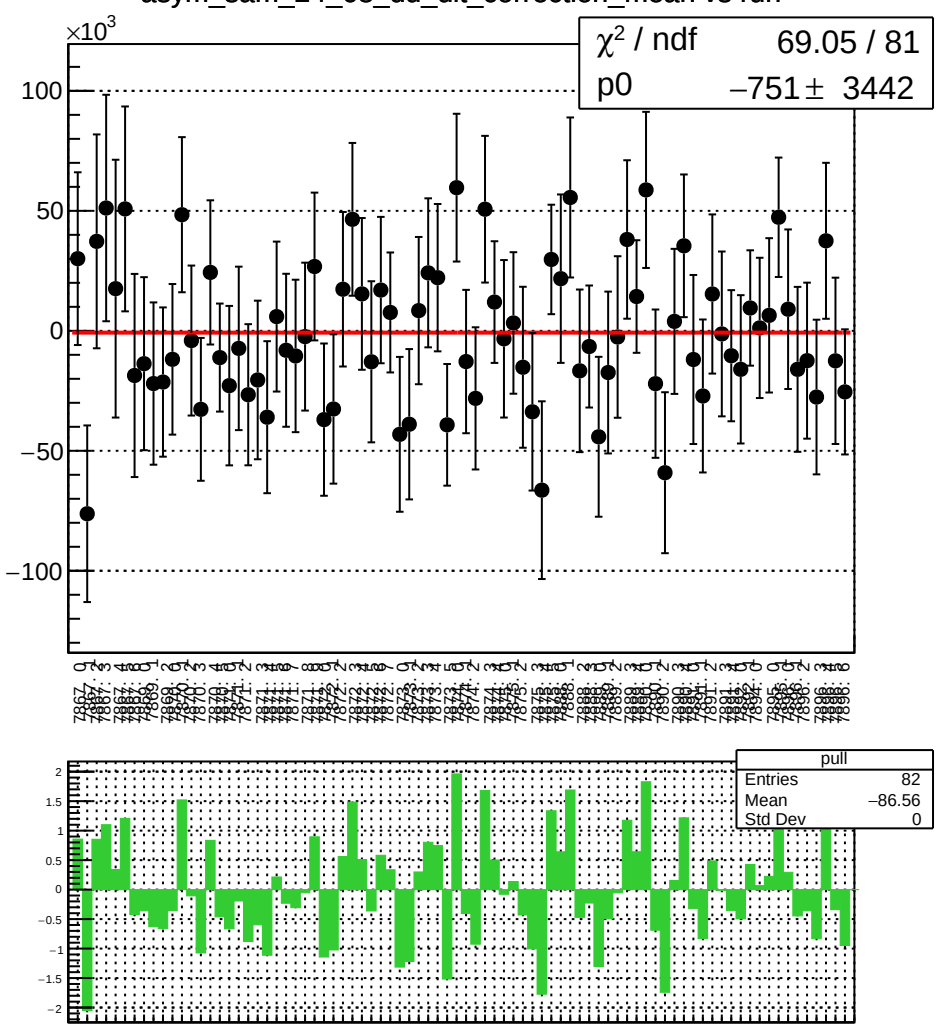

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.43 / 81
p0 −726.2 ± 3418
100
50
0
−50
−100
pull
Entries 82
Mean −114.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

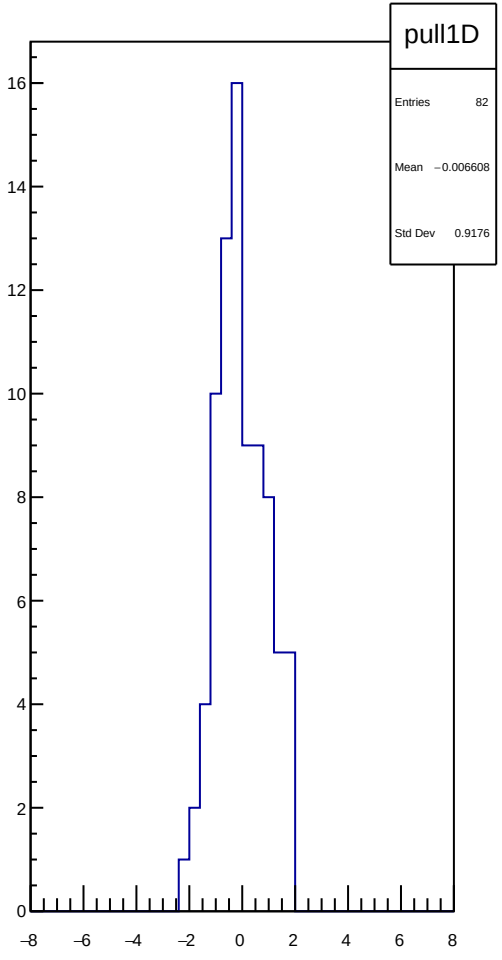

pull1D
Entries 82
Mean −0.005851
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

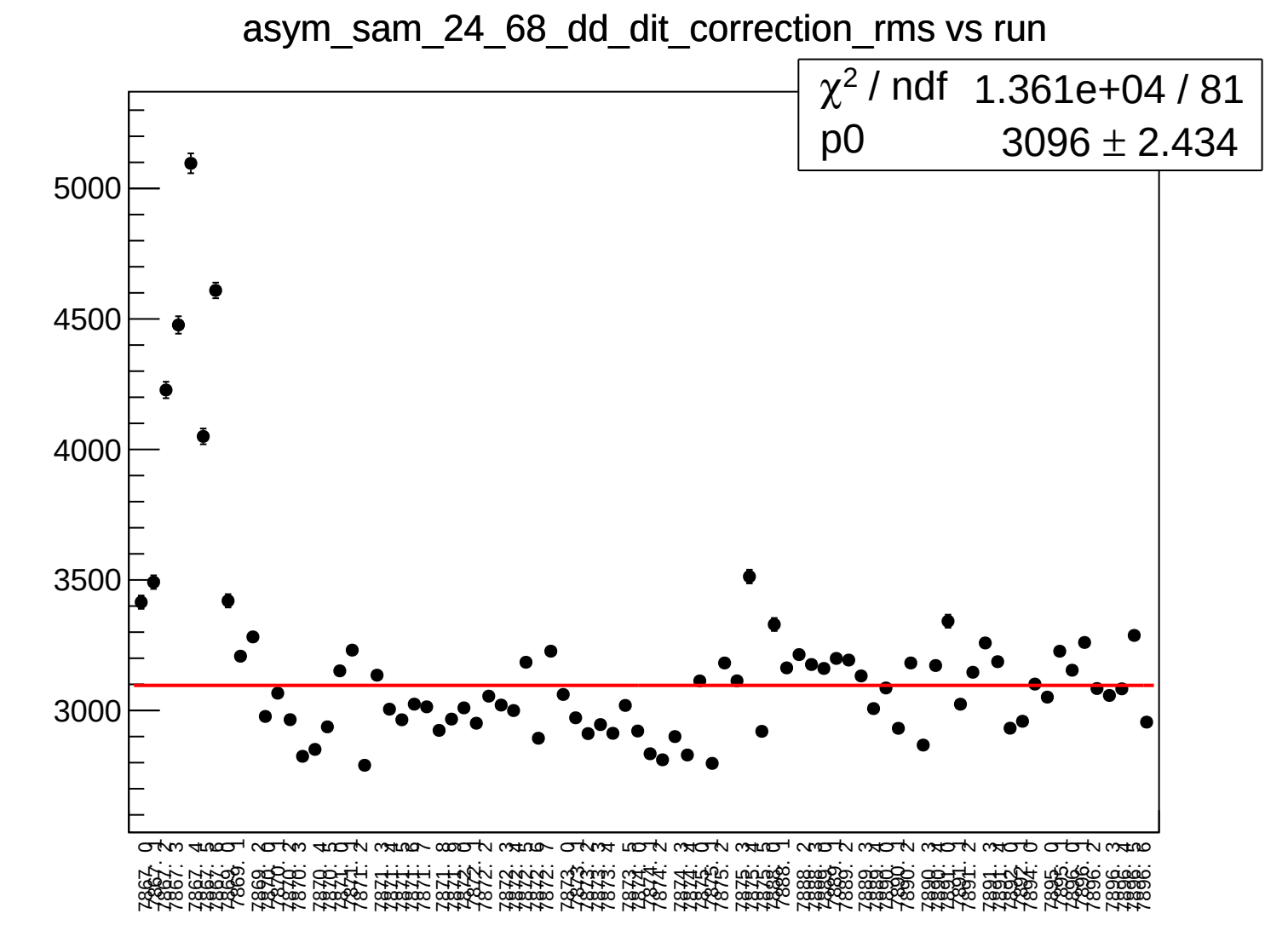

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.368e+04 / 81
p0 3075 ± 2.417
5000
4500
4000
3500
3000

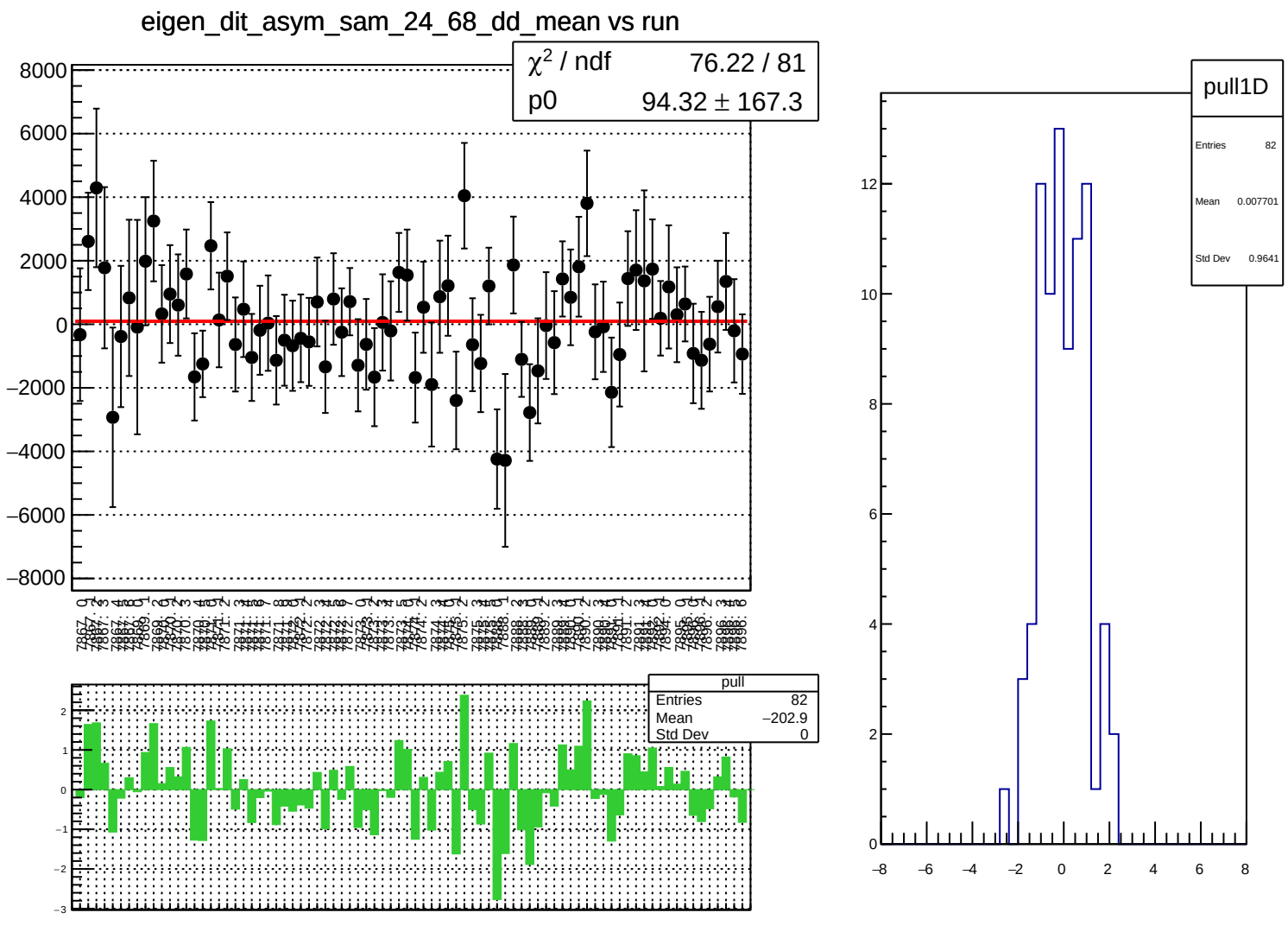

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 76.22 / 81
p0 94.33 ± 167.3
pull
Entries 82
Mean −202.9
Std Dev 0
pull1D
Entries 82
Mean 0.0077
Std Dev 0.9641

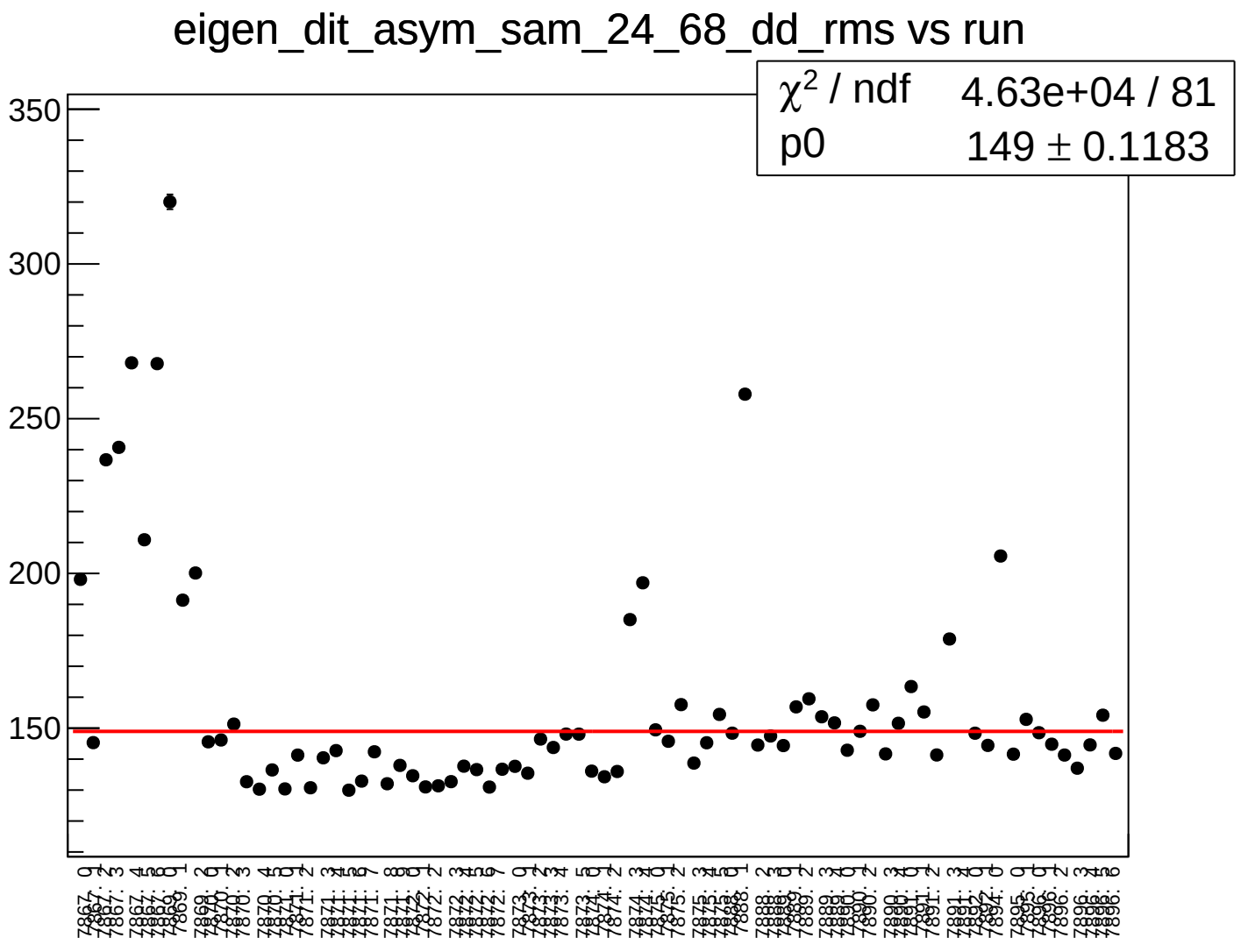

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4.63e+04 / 81
p0 149 ± 0.1183
350
300
250
200
150

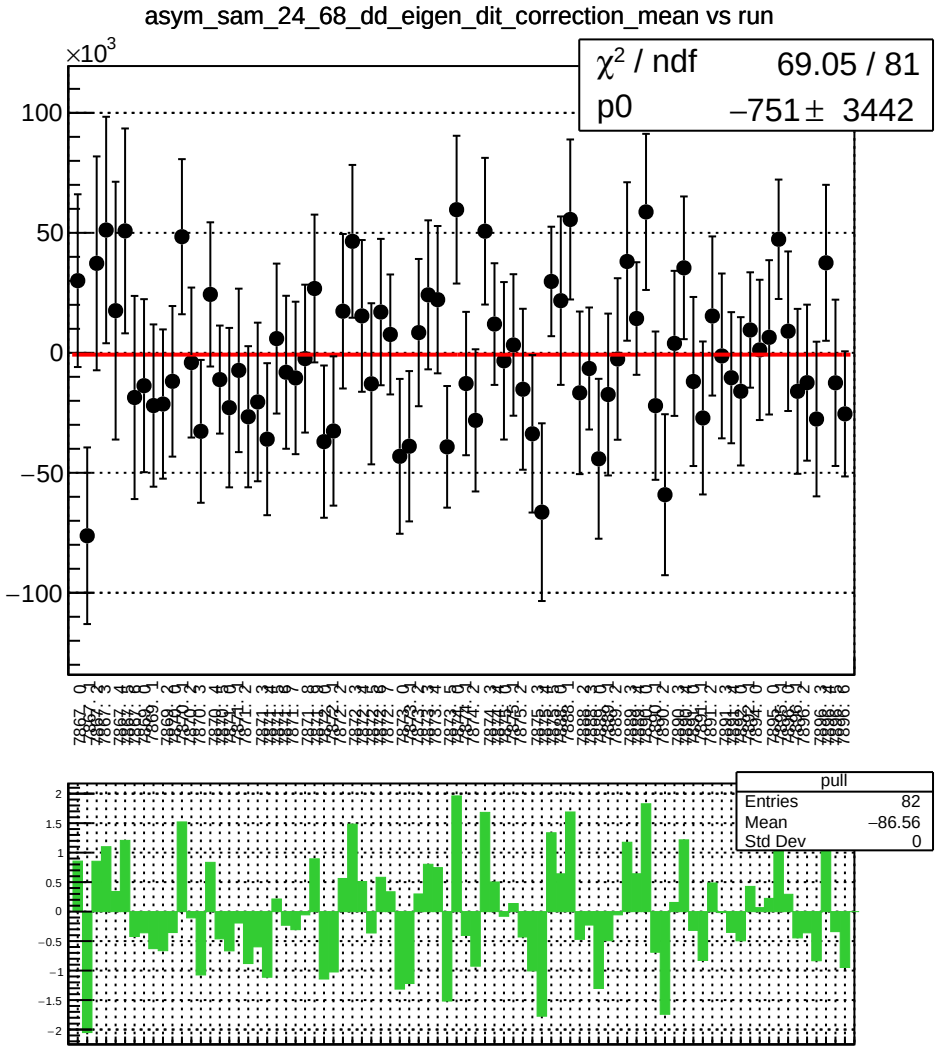

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 69.05 / 81
p0 −751 ± 3442
pull
Entries 82
Mean −86.56
Std Dev 0

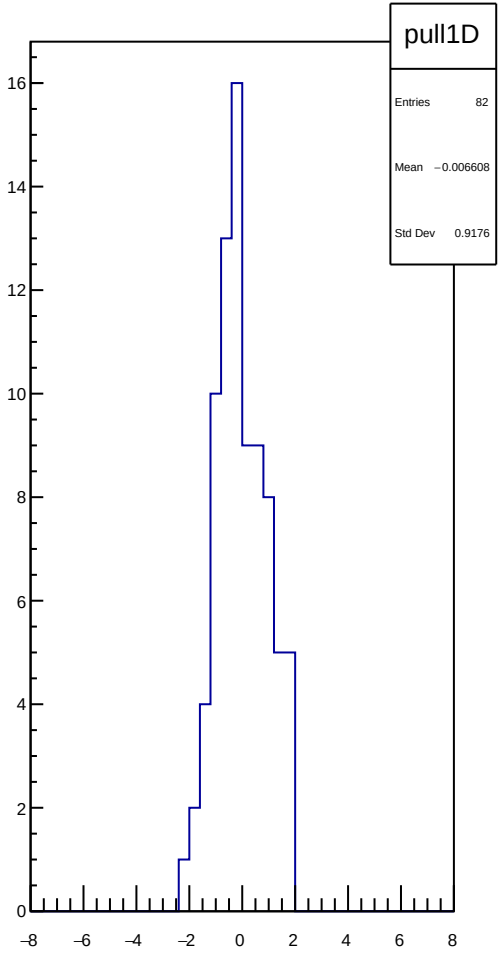

pull1D
Entries 82
Mean −0.006608
Std Dev 0.9176

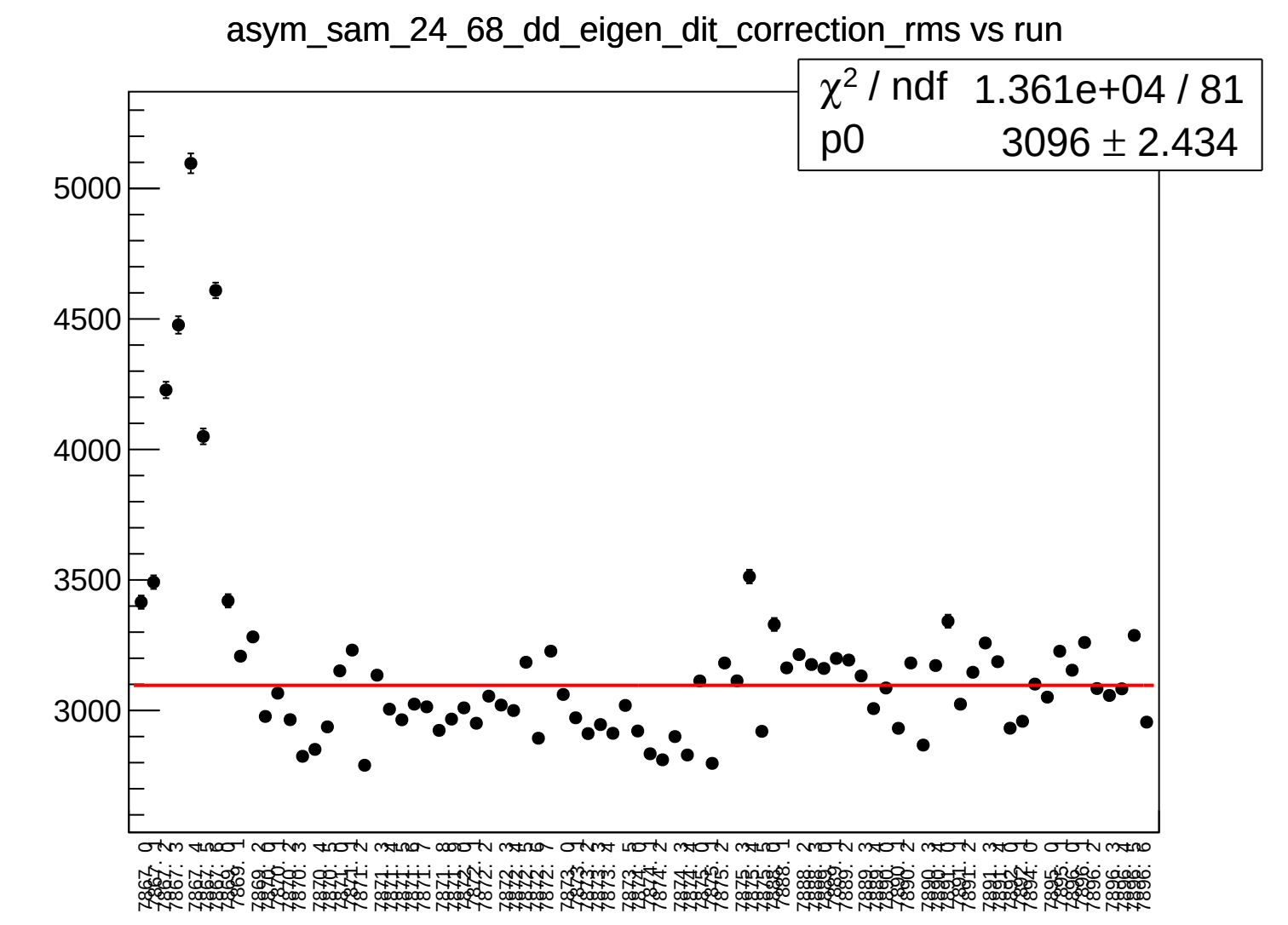

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 81
p0 3096 ± 2.434
5000
4500
4000
3500
3000

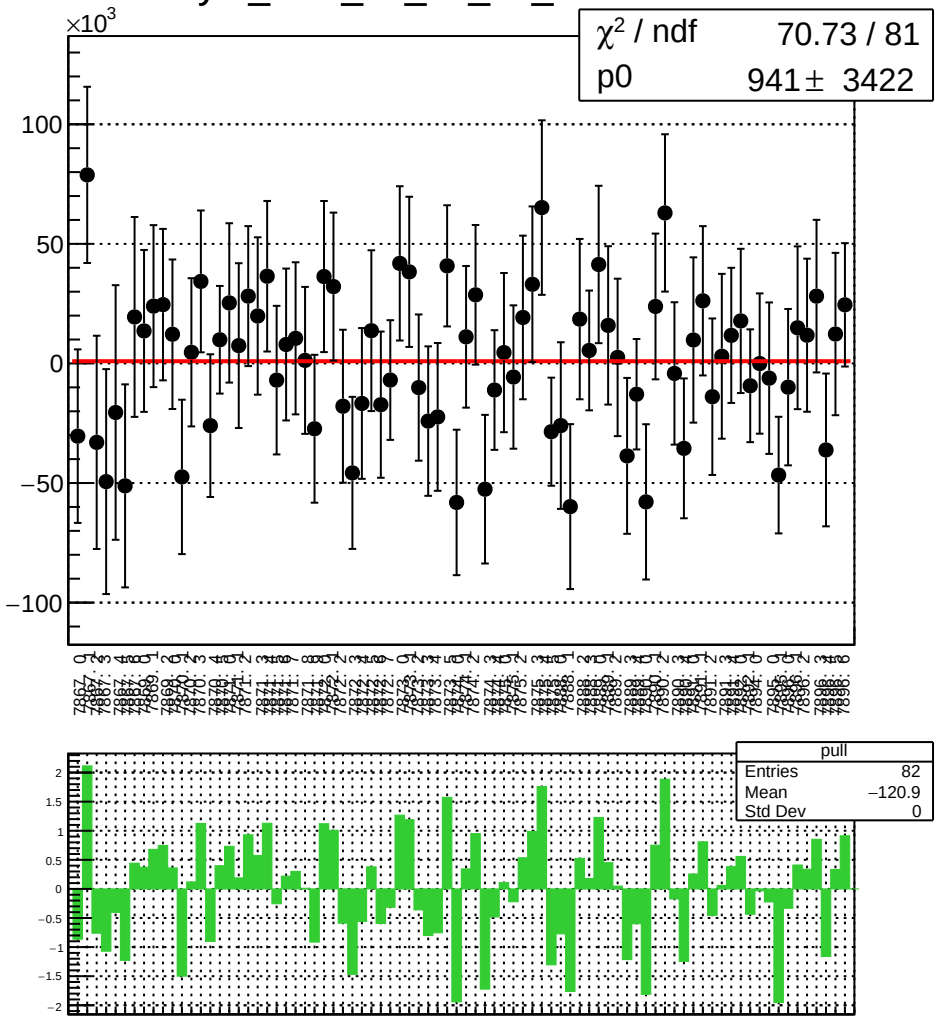

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 76.22 / 81
p0 94.32 ± 167.3
pull
Entries 82
Mean −202.9
Std Dev 0
pull1D
Entries 82
Mean 0.007701
Std Dev 0.9641

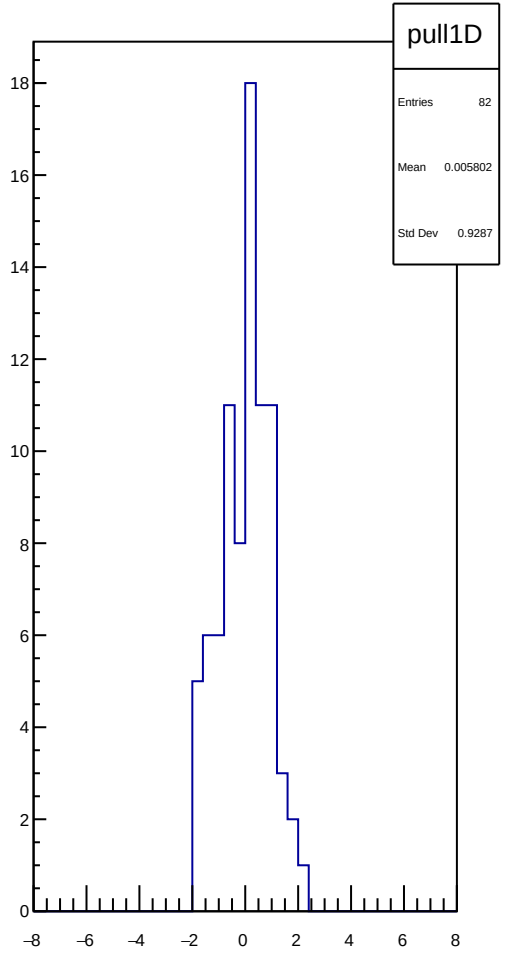

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4.63e+04 / 81
p0 149 ± 0.1183
350
300
250
200
150

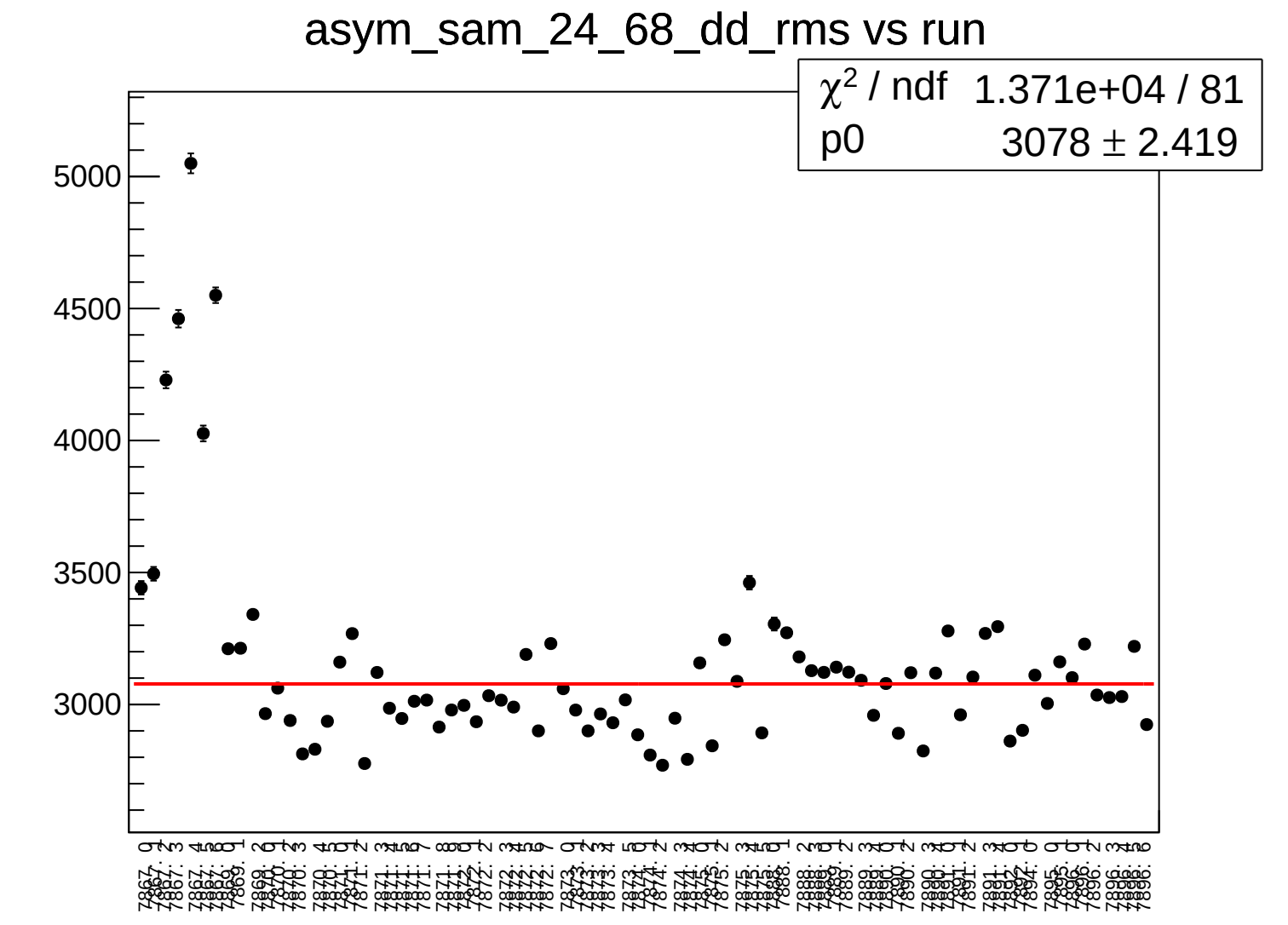

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.05 / 81
p0 −751 ± 3442
pull
Entries 82
Mean −86.56
Std Dev 0

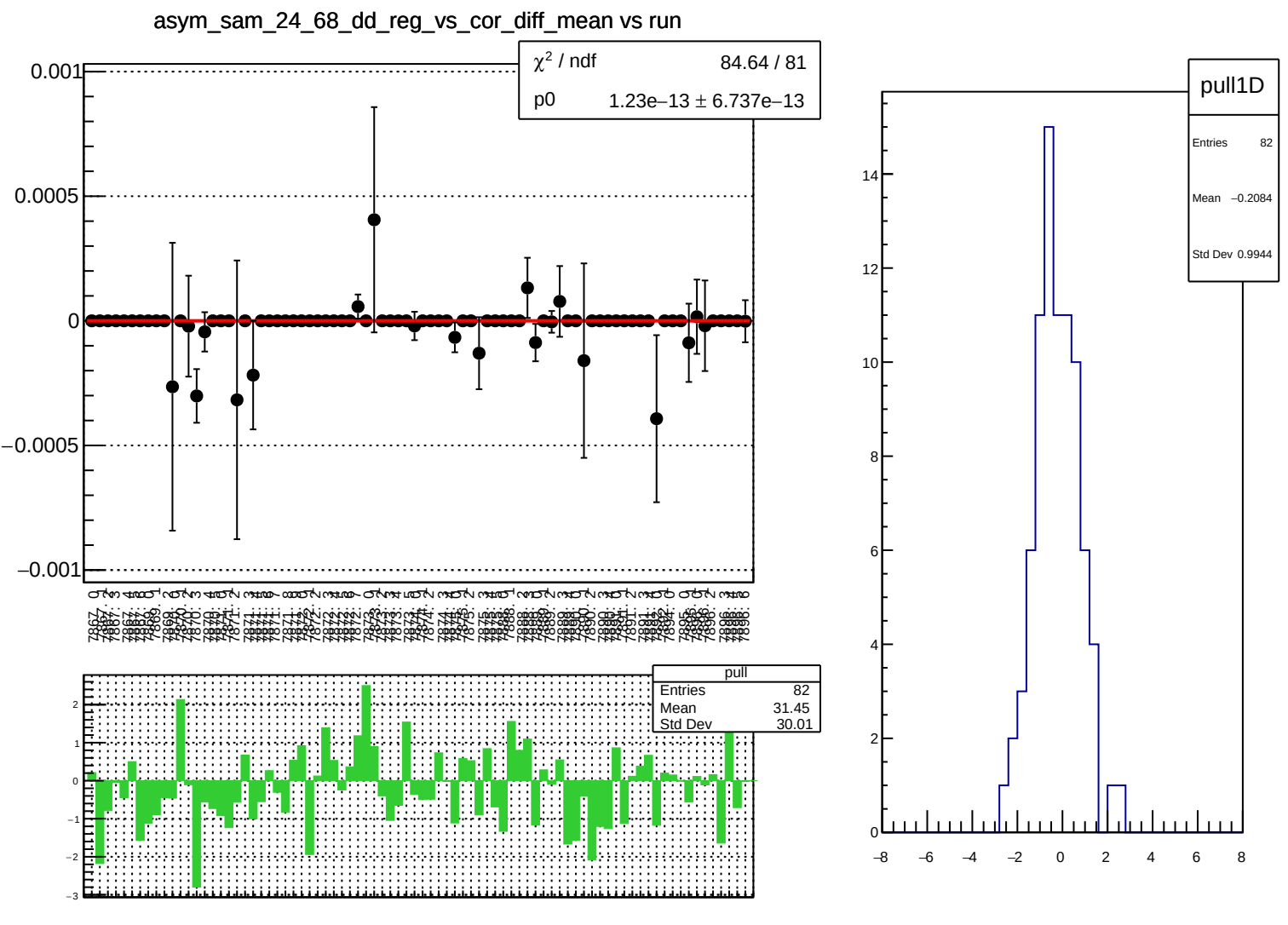

pull1D
Entries 82
Mean −0.006608
Std Dev 0.9176

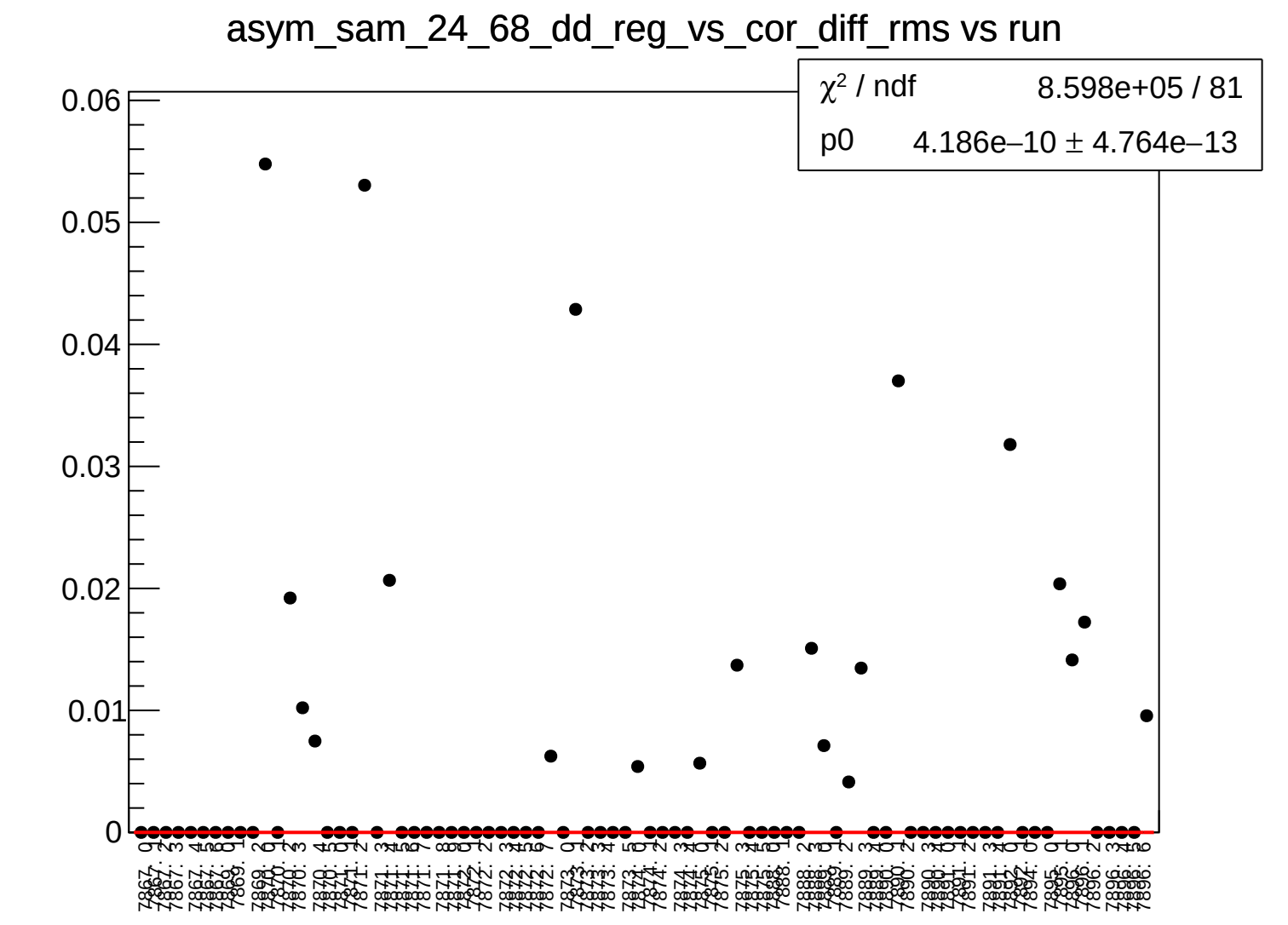

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 81
p0 3096 ± 2.434
5000
4500
4000
3500
3000

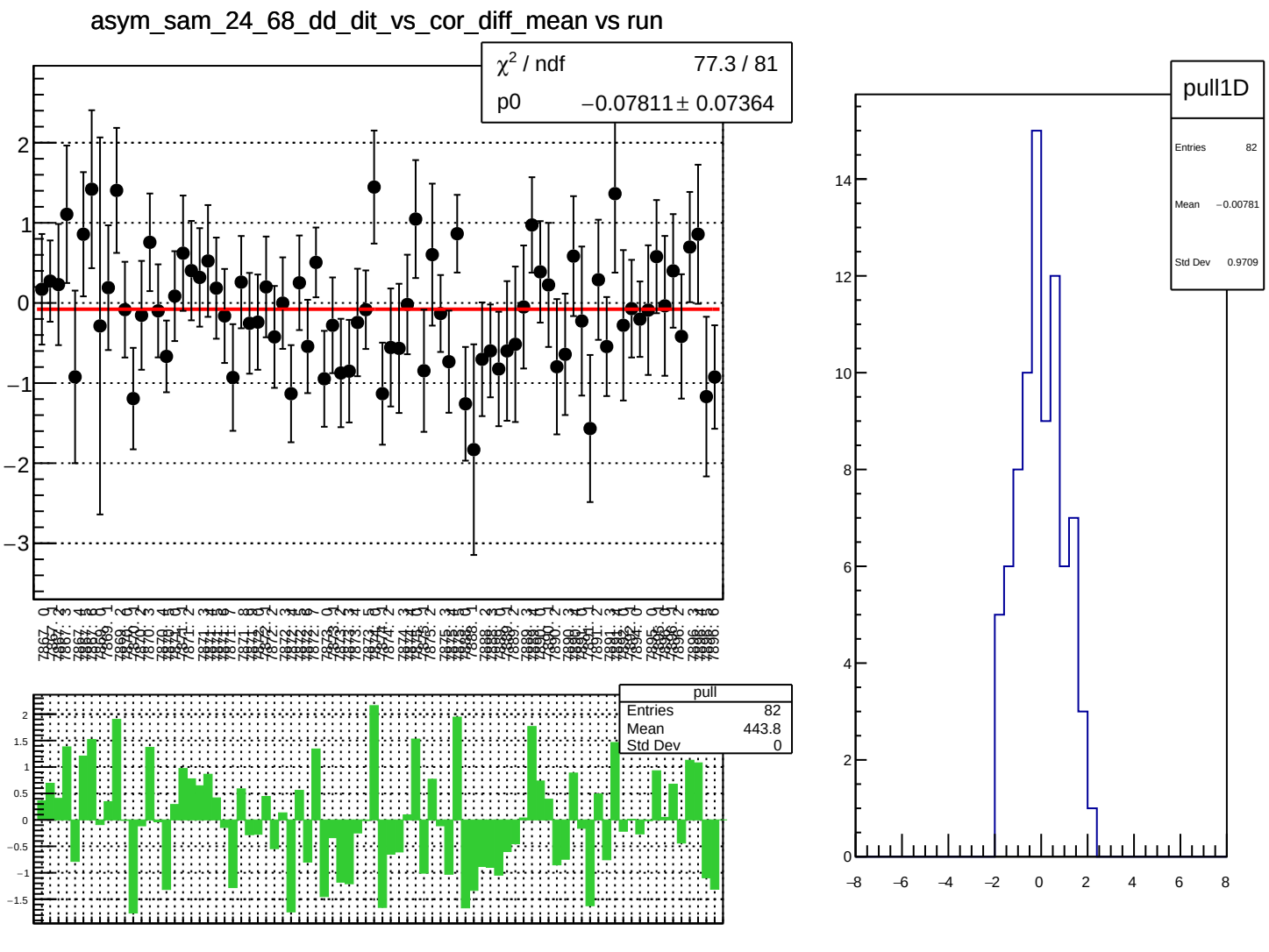

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 70.73 / 81
p0 941 ± 3422
100
50
0
−50
−100
pull
Entries 82
Mean −120.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

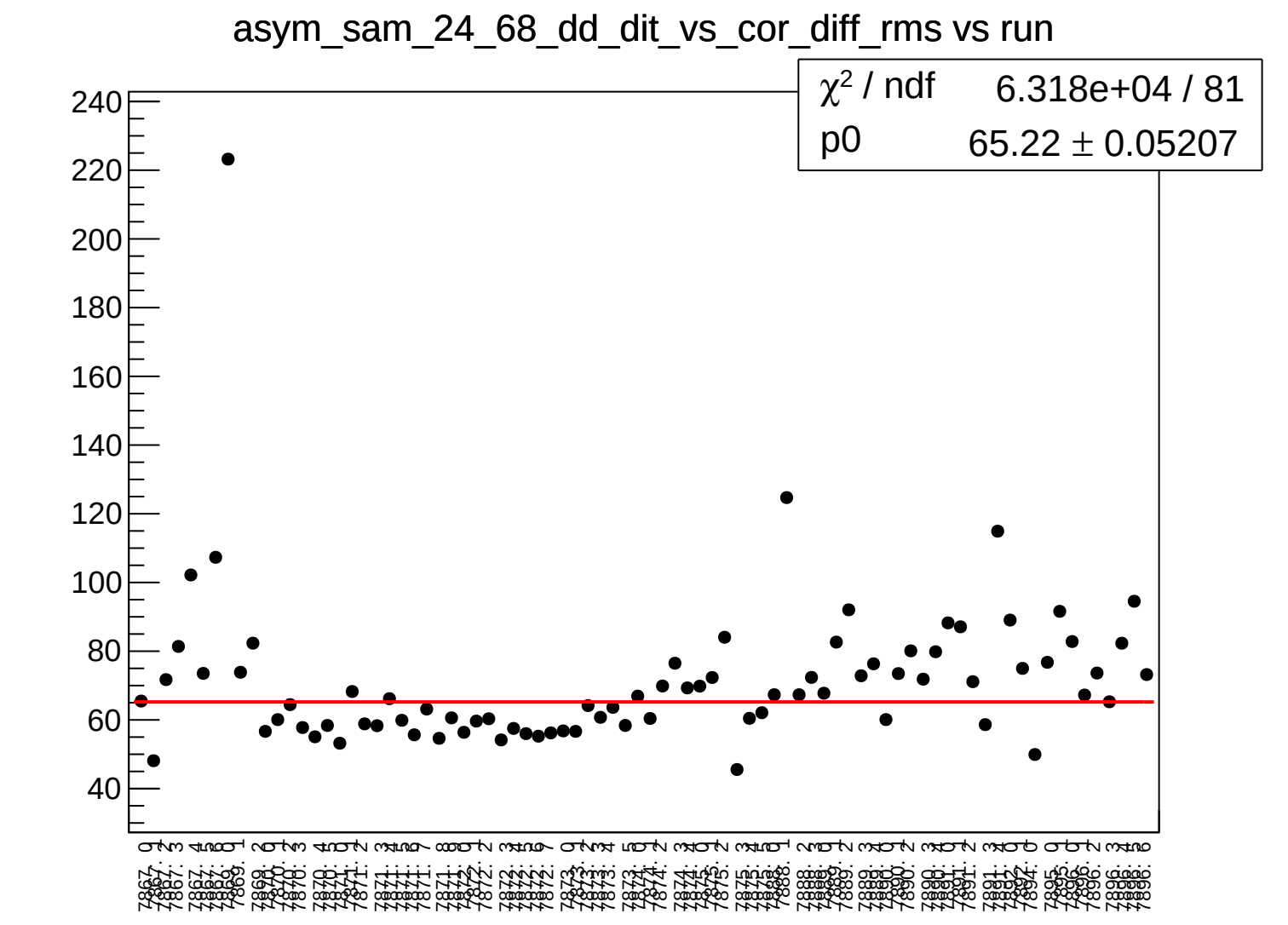

pull1D
Entries 82
Mean 0.005802
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

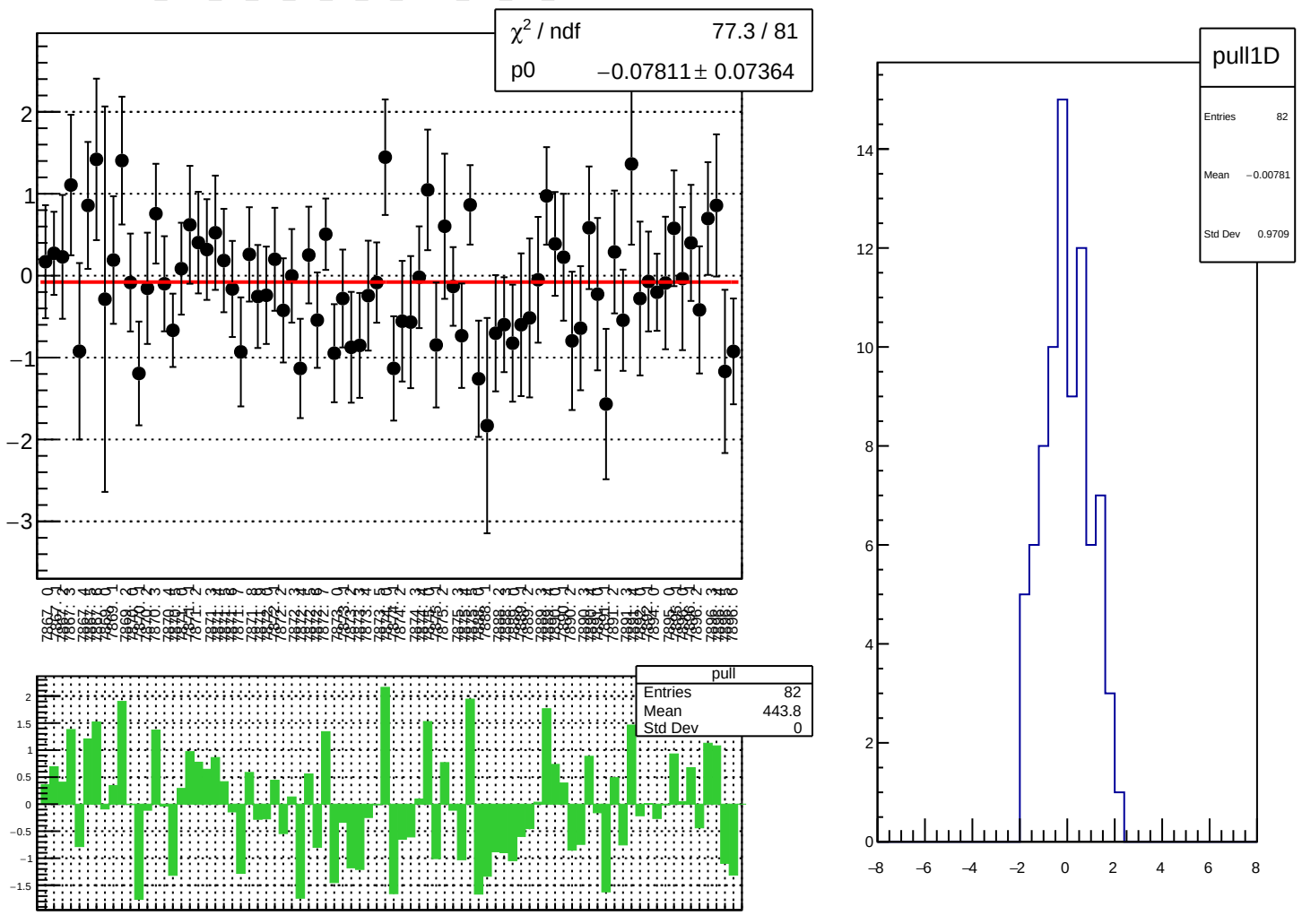

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.371e+04 / 81
p0 3078 ± 2.419
5000
4500
4000
3500
3000

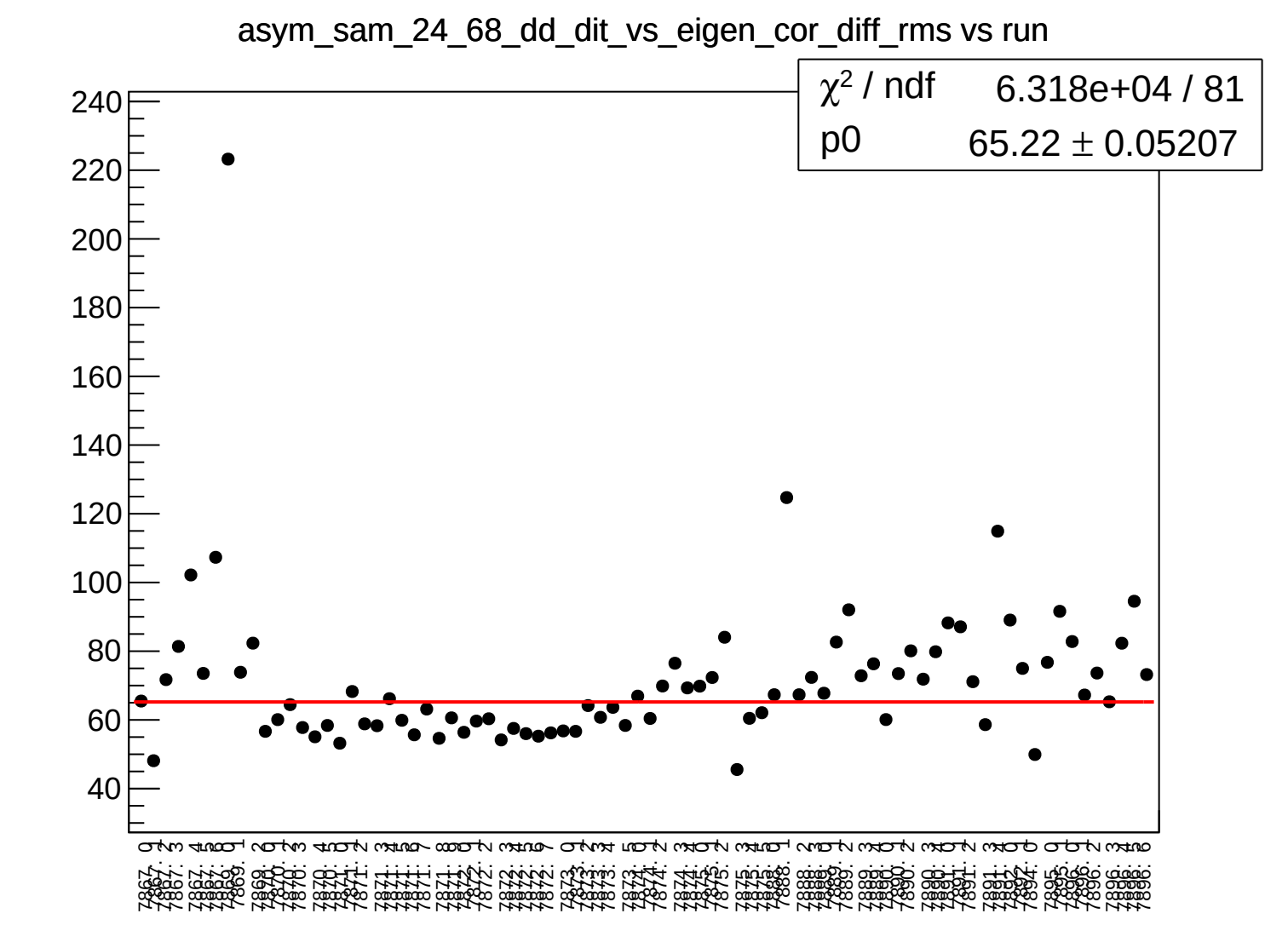

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.64 / 81
p0 1.23e−13 ± 6.737e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean 31.45
Std Dev 30.01
pull1D
Entries 82
Mean −0.2084
Std Dev 0.9944

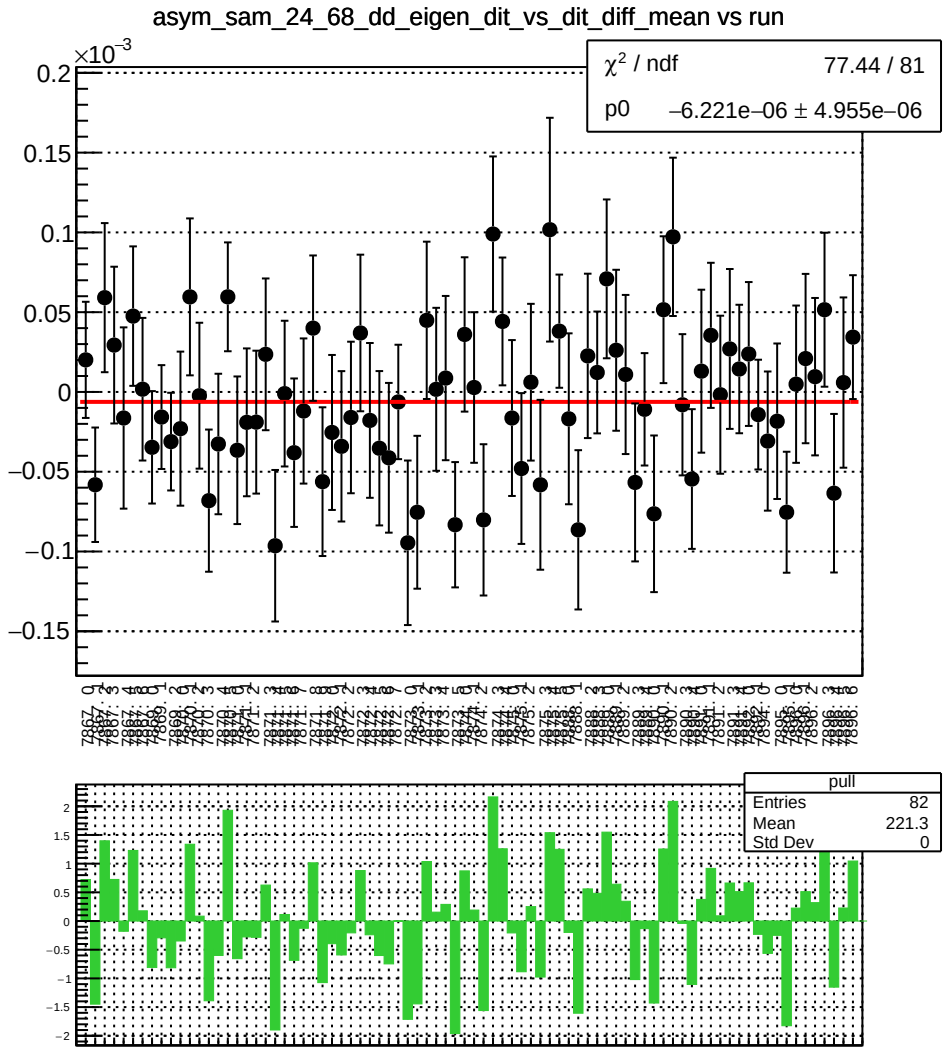

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.598e+05 / 81
p0 4.186e−10 ± 4.764e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

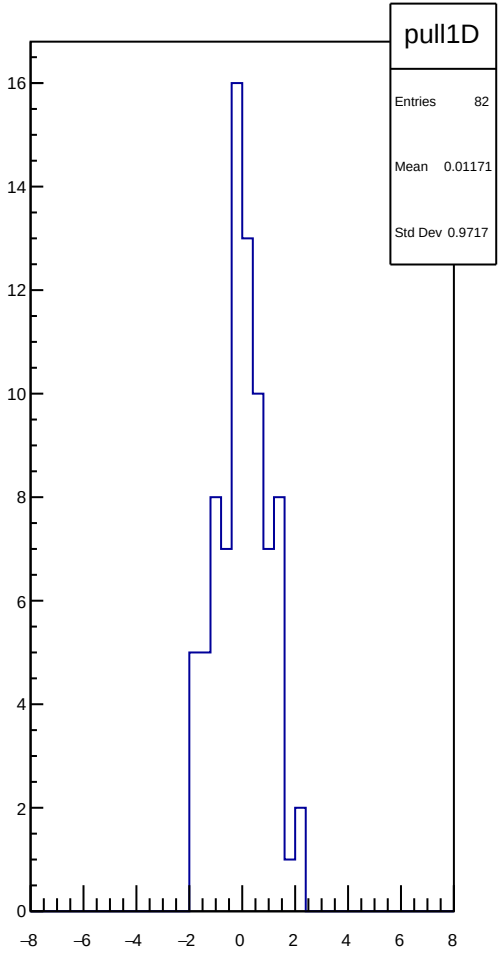

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.3 / 81
p0 −0.07811 ± 0.07364
pull
Entries 82
Mean 443.8
Std Dev 0
pull1D
Entries 82
Mean −0.00781
Std Dev 0.9709

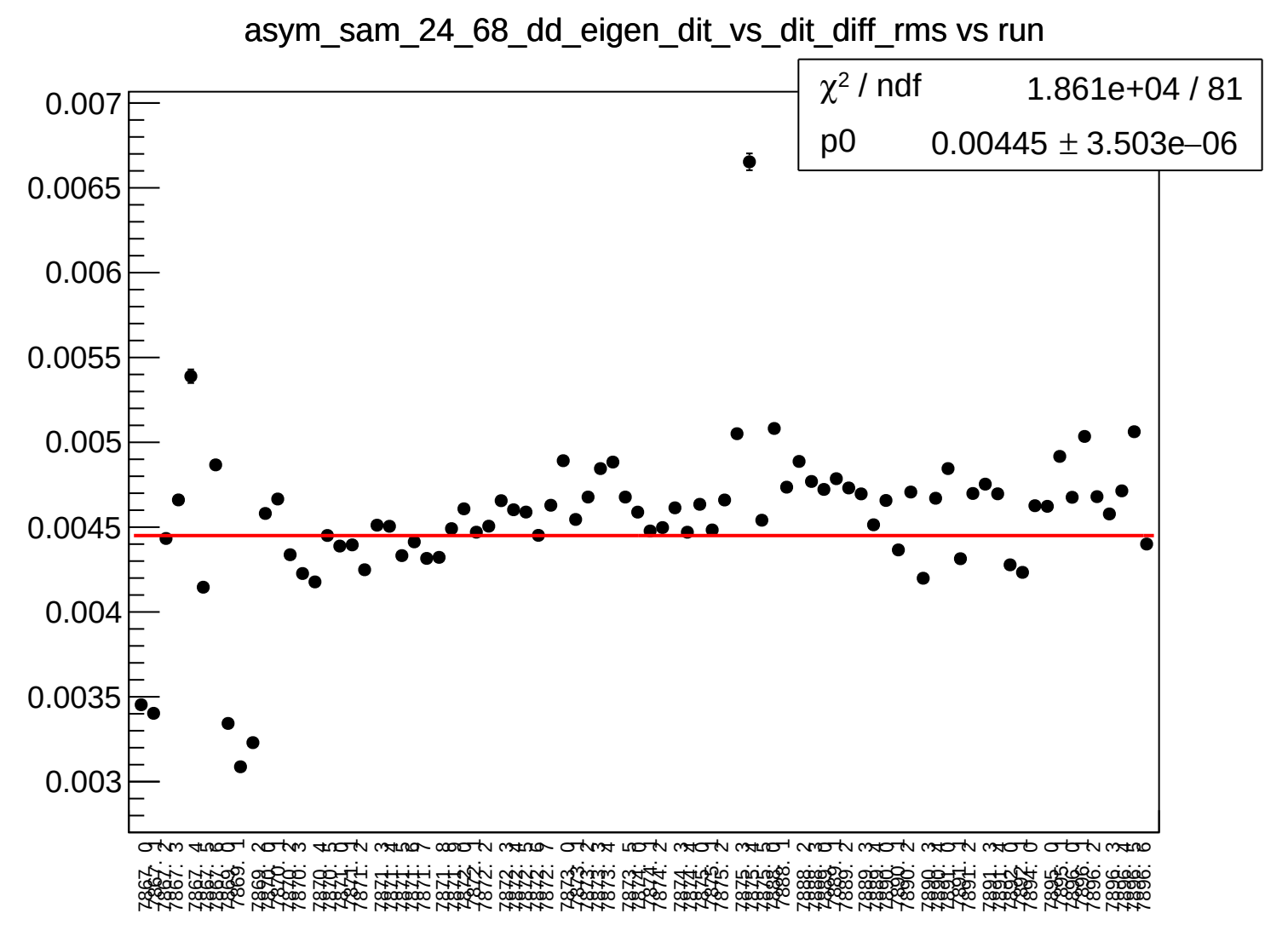

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.318e+04 / 81
p0 65.22 ± 0.05207
240
220
200
180
160
140
120
100
80
60
40

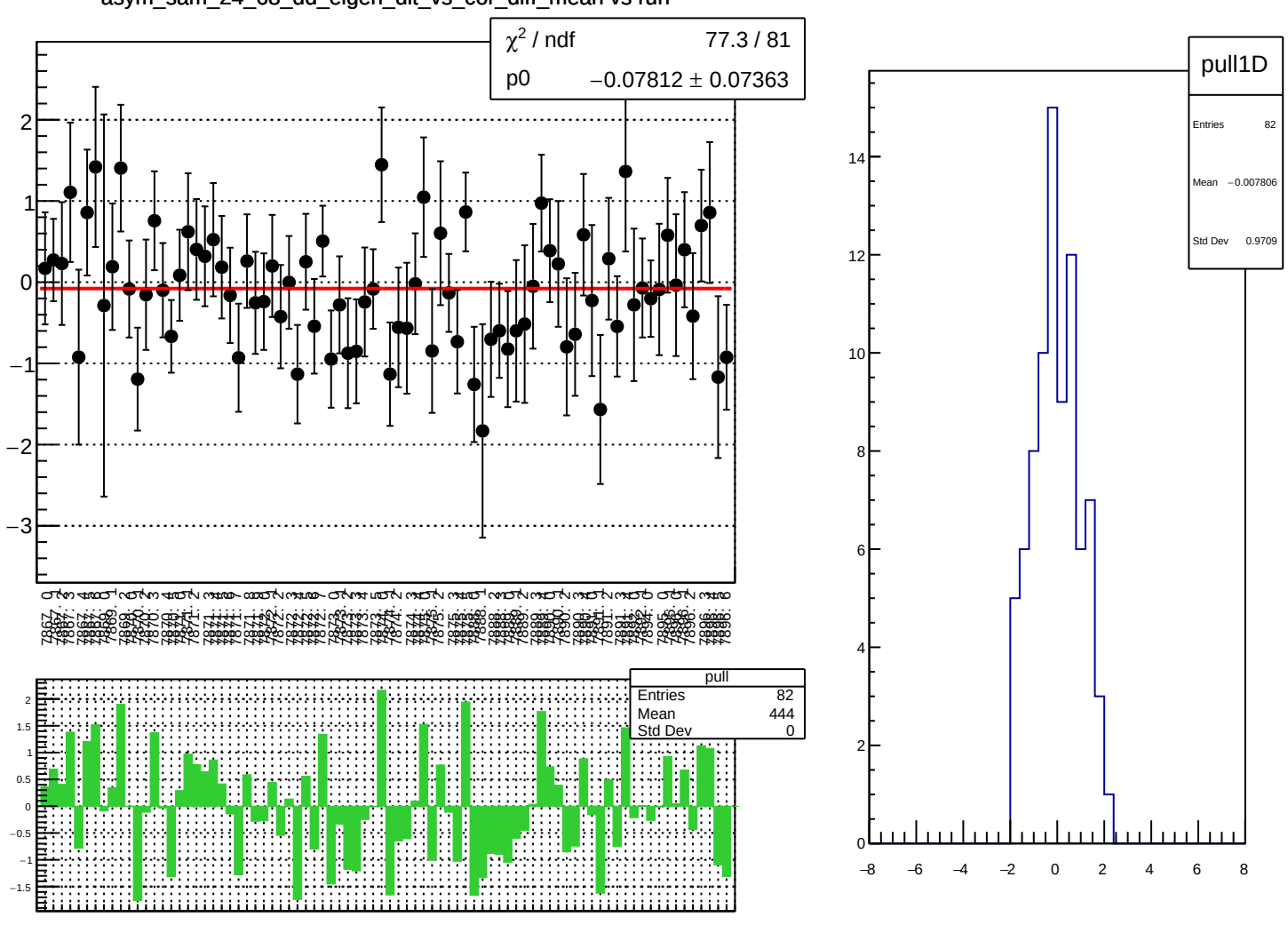

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.3 / 81
p0 −0.07811 ± 0.07364
pull
Entries 82
Mean 443.8
Std Dev 0
pull1D
Entries 82
Mean −0.00781
Std Dev 0.9709

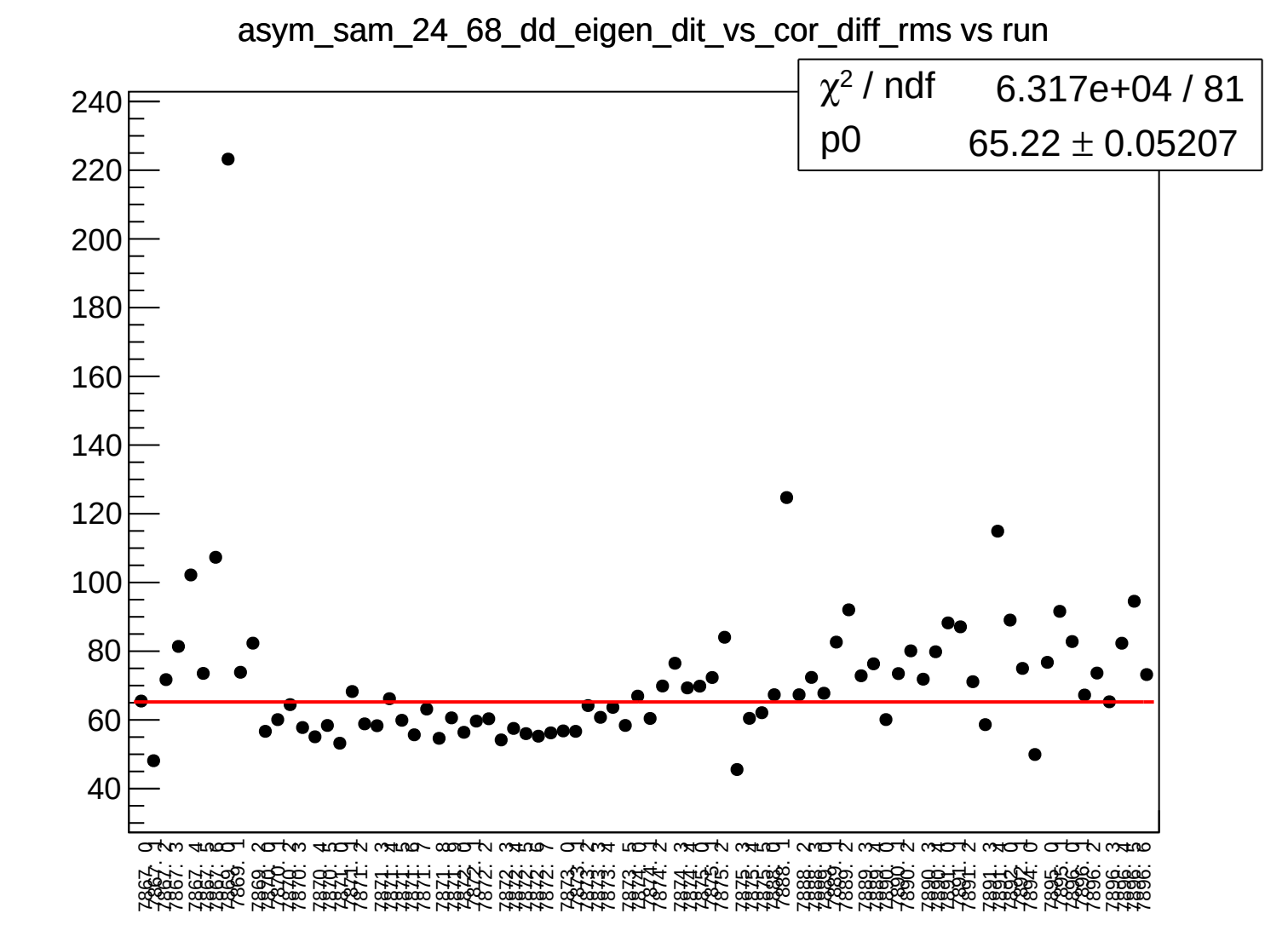

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.318e+04 / 81
p0 65.22 ± 0.05207
240
220
200
180
160
140
120
100
80
60
40

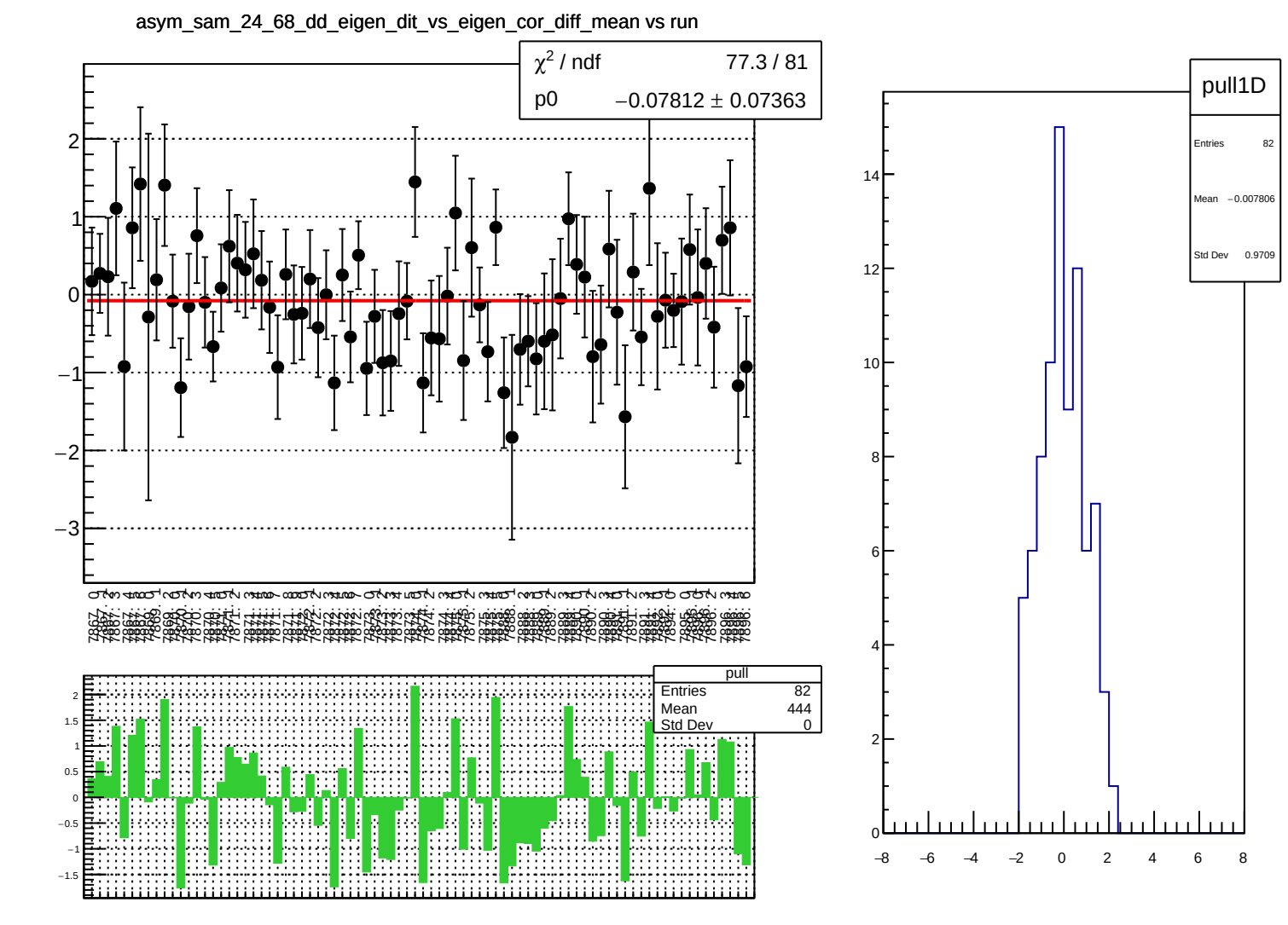

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.44 / 81
p0 −6.221e−06 ± 4.955e−06
pull
Entries 82
Mean 221.3
Std Dev 0

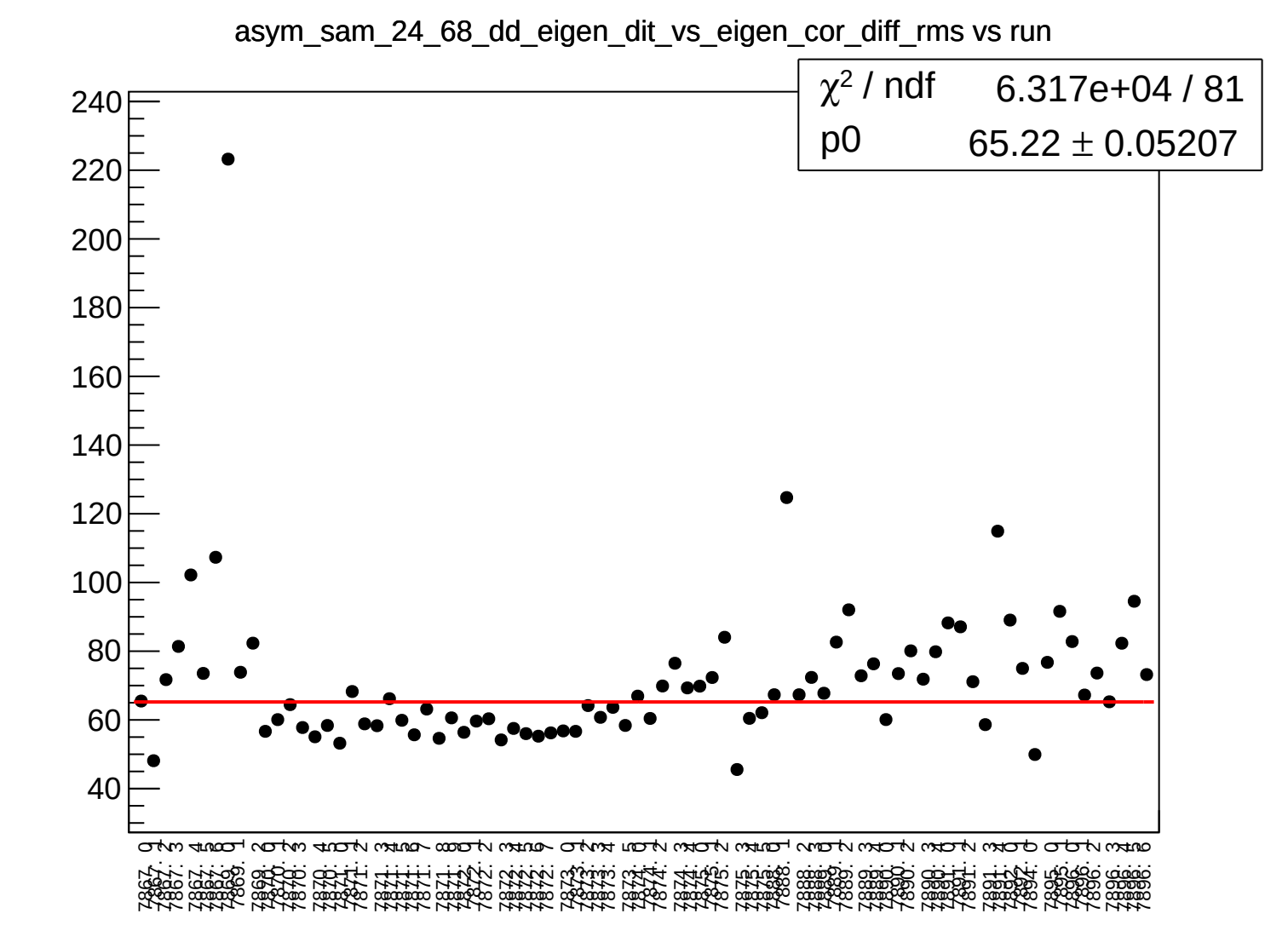

pull1D
Entries 82
Mean 0.01171
Std Dev 0.9717

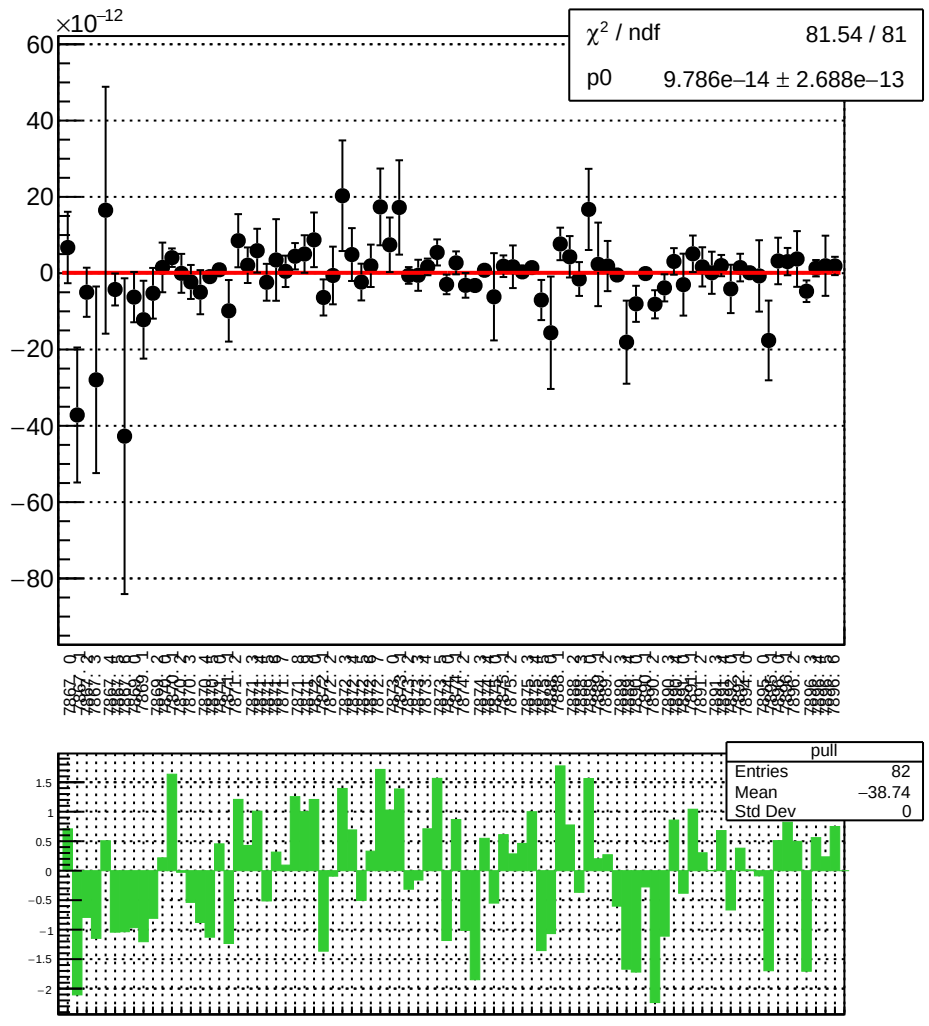

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.861e+04 / 81
p0 0.00445 ± 3.503e–06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

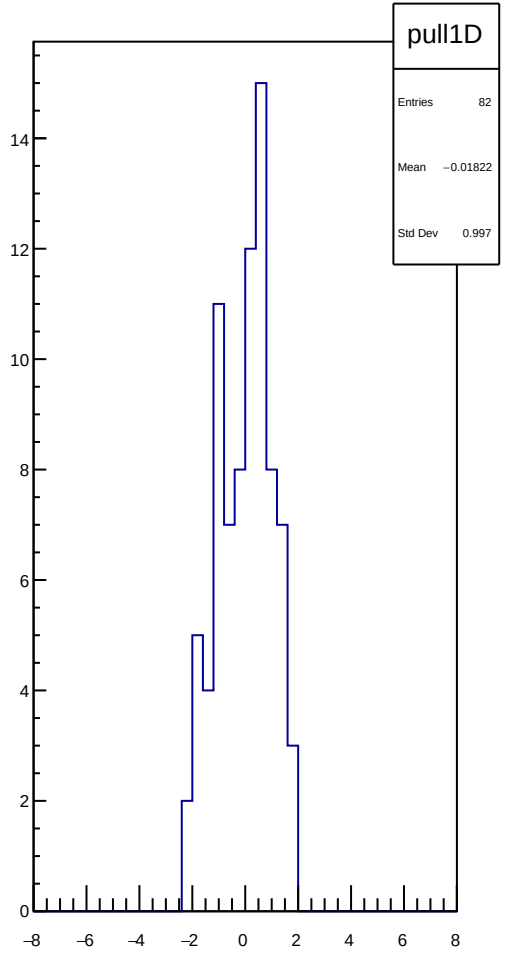

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.3 / 81
p0 −0.07812 ± 0.07363
pull
Entries 82
Mean 444
Std Dev 0
pull1D
Entries 82
Mean −0.007806
Std Dev 0.9709

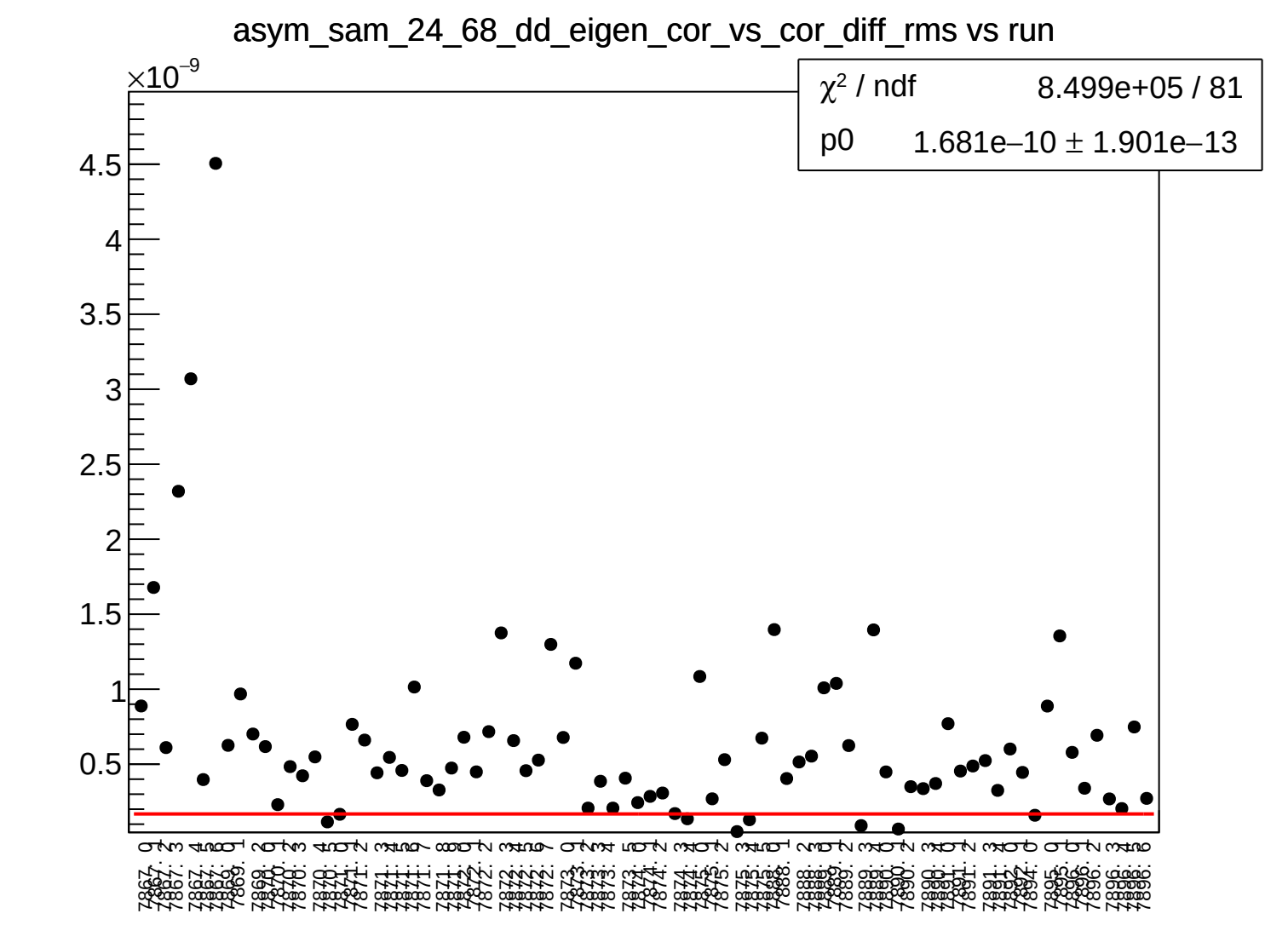

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.317e+04 / 81
p0 65.22 ± 0.05207
240
220
200
180
160
140
120
100
80
60
40

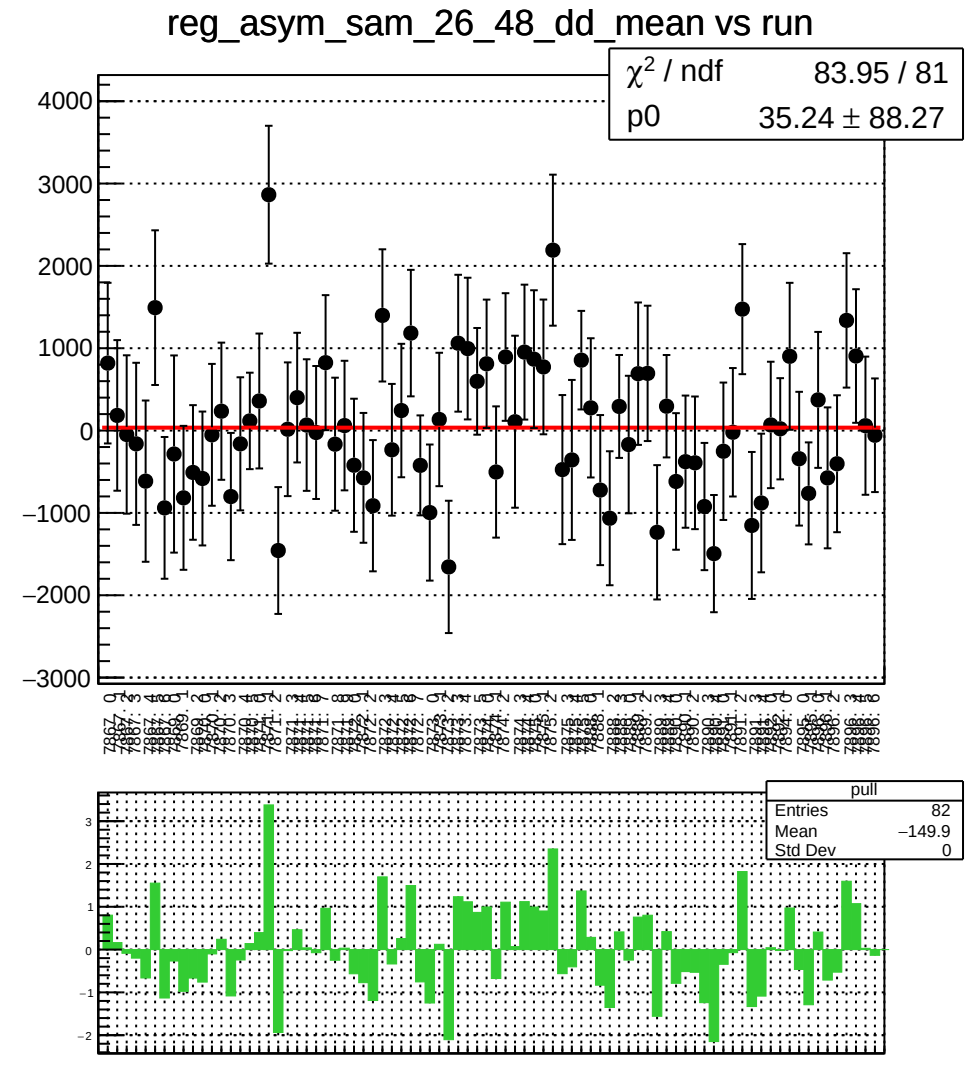

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.3 / 81
p0 −0.07812 ± 0.07363
pull
Entries 82
Mean 444
Std Dev 0
pull1D
Entries 82
Mean −0.007806
Std Dev 0.9709

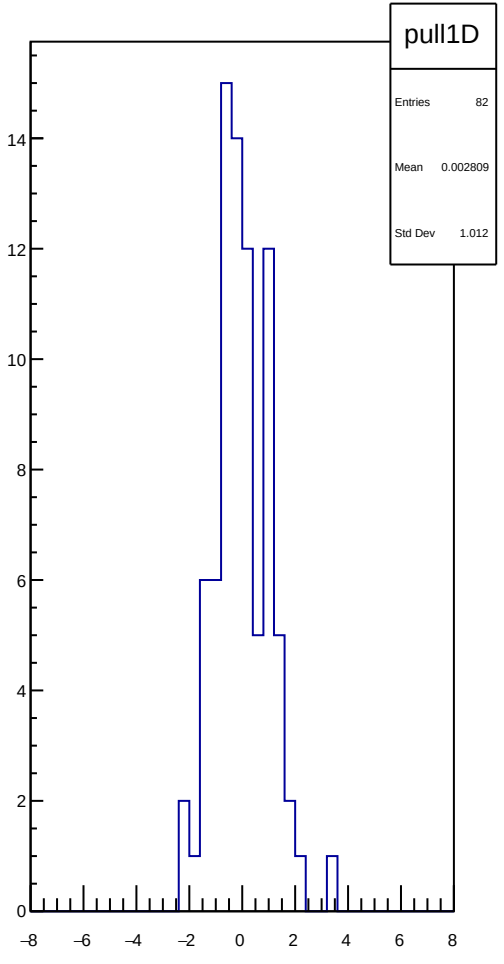

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.317e+04 / 81
p0 65.22 ± 0.05207
240
220
200
180
160
140
120
100
80
60
40

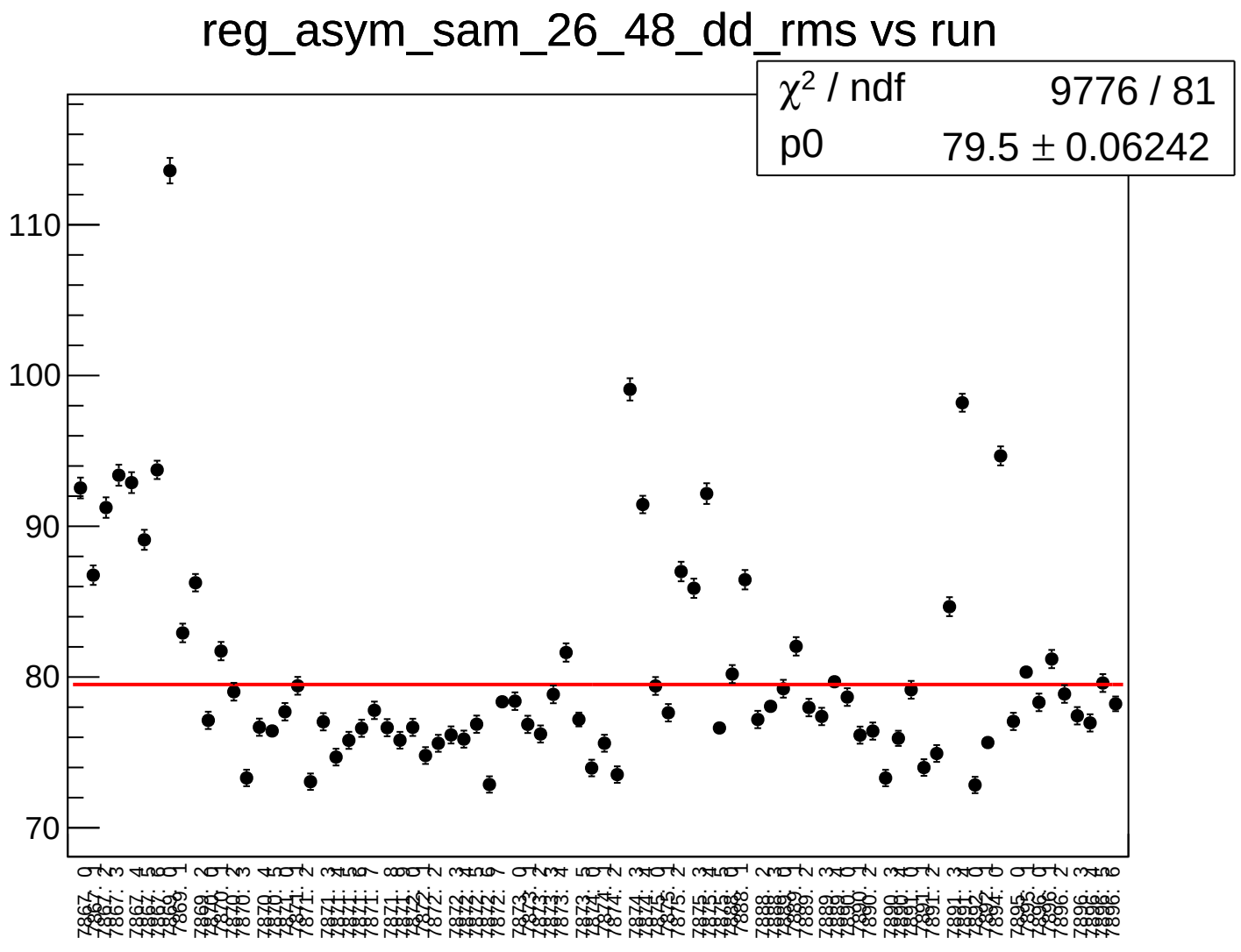

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.54 / 81
p0 9.786e−14 ± 2.688e−13
pull
Entries 82
Mean −38.74
Std Dev 0

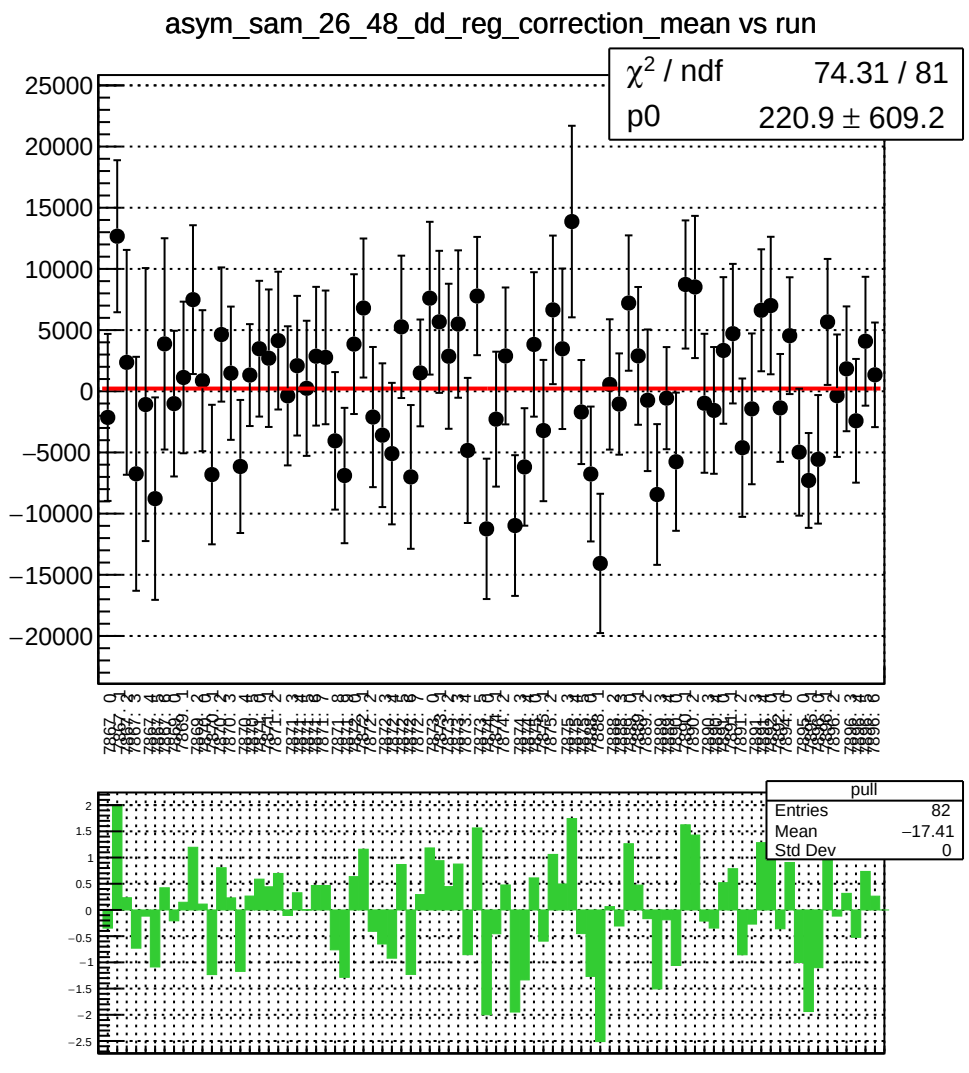

pull1D
Entries 82
Mean −0.01822
Std Dev 0.997

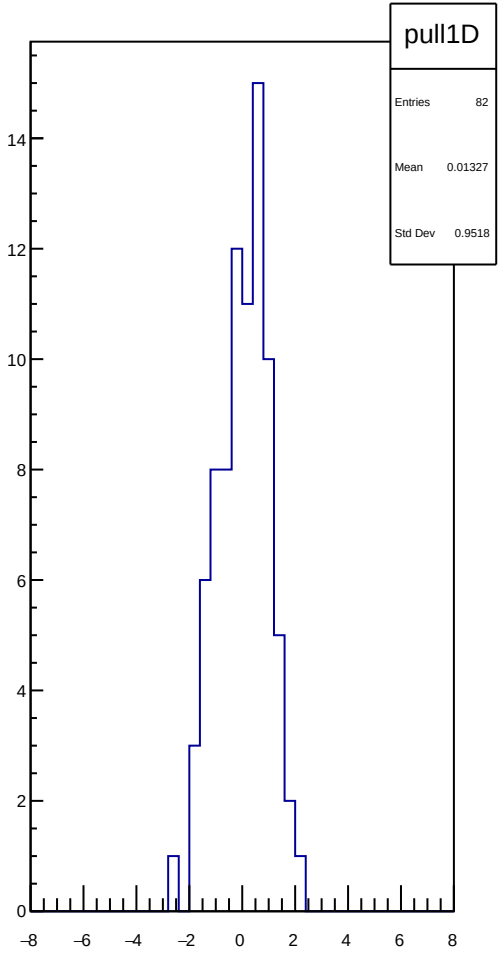

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.499e+05 / 81
p0 1.681e−10 ± 1.901e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

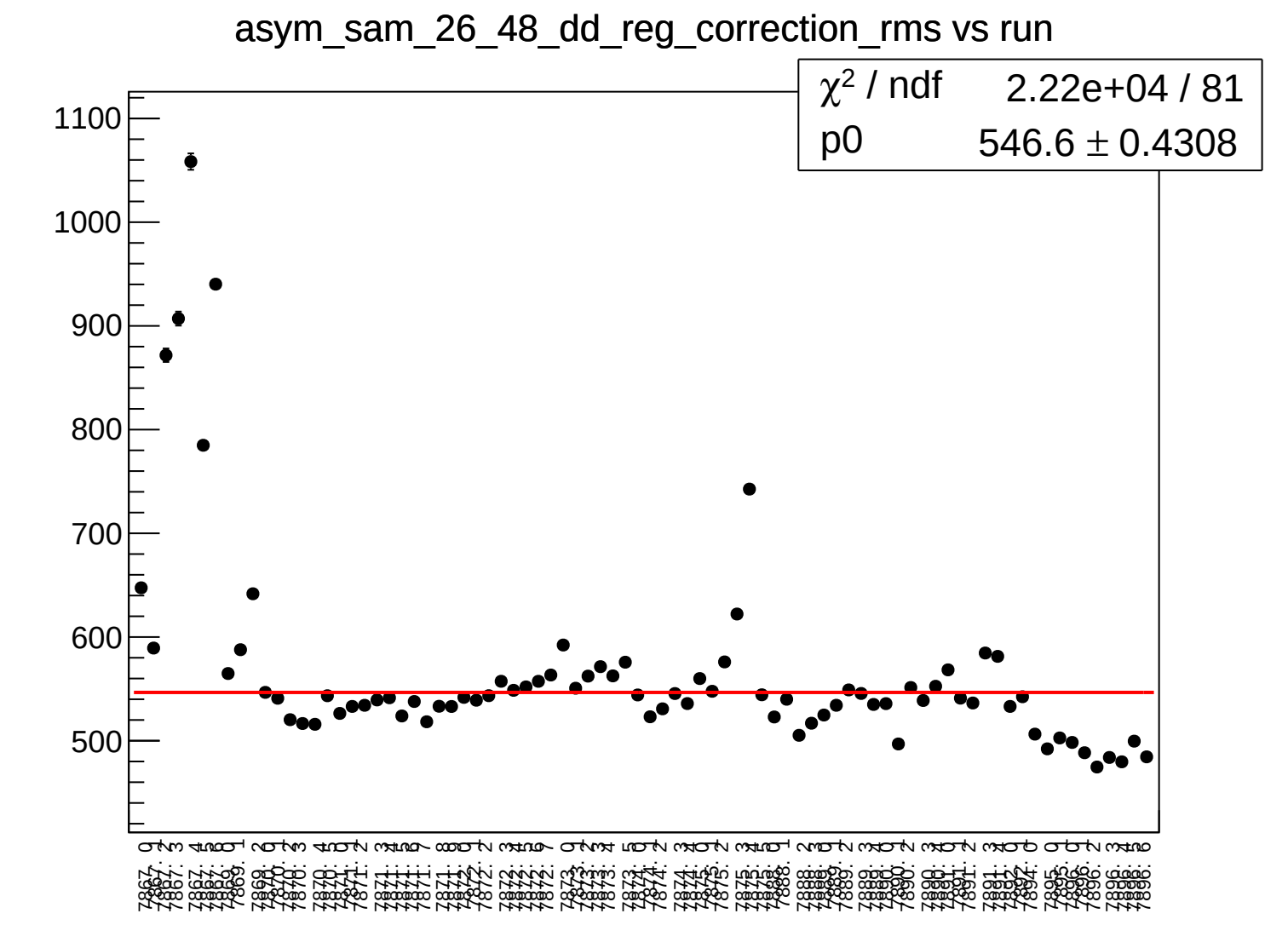

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.95 / 81
p0 35.24 ± 88.27
pull
Entries 82
Mean −149.9
Std Dev 0

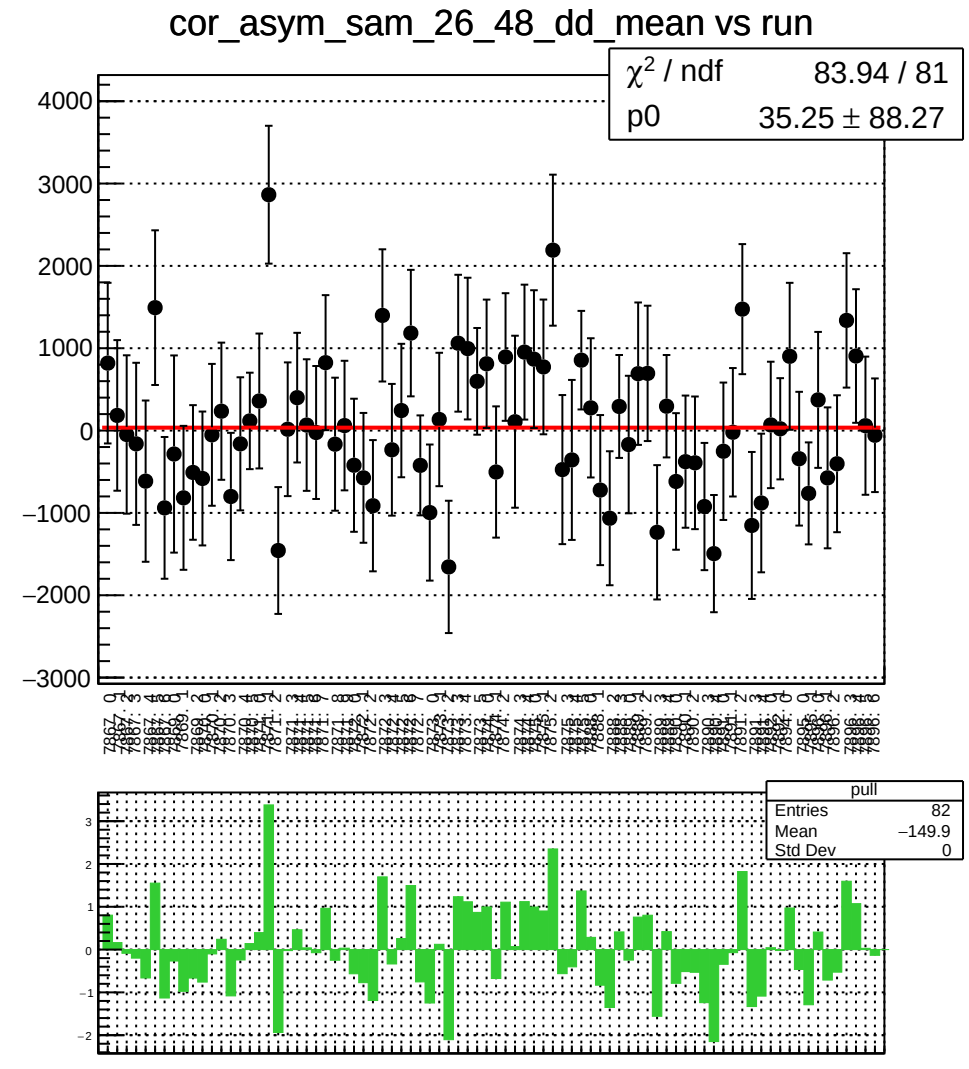

pull1D
Entries 82
Mean 0.002809
Std Dev 1.012

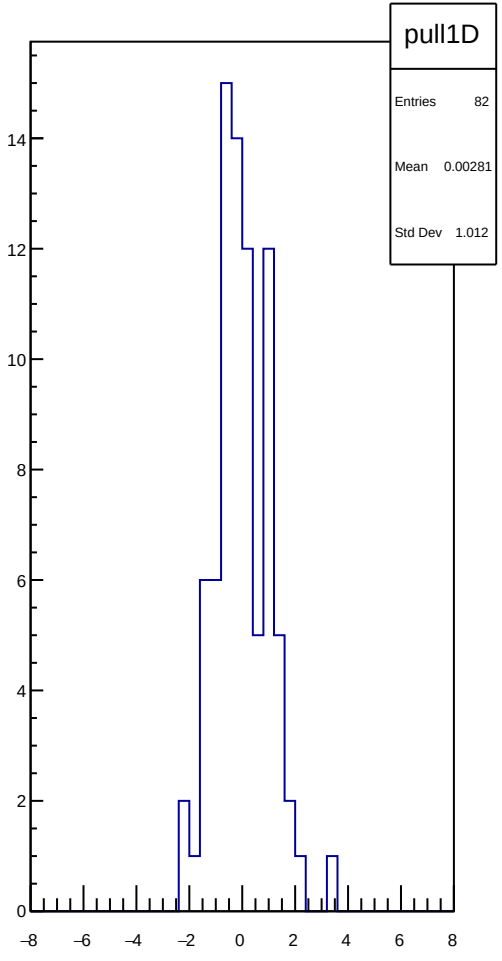

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 9776 / 81
p0 79.5 ± 0.06242
110
100
90
80
70

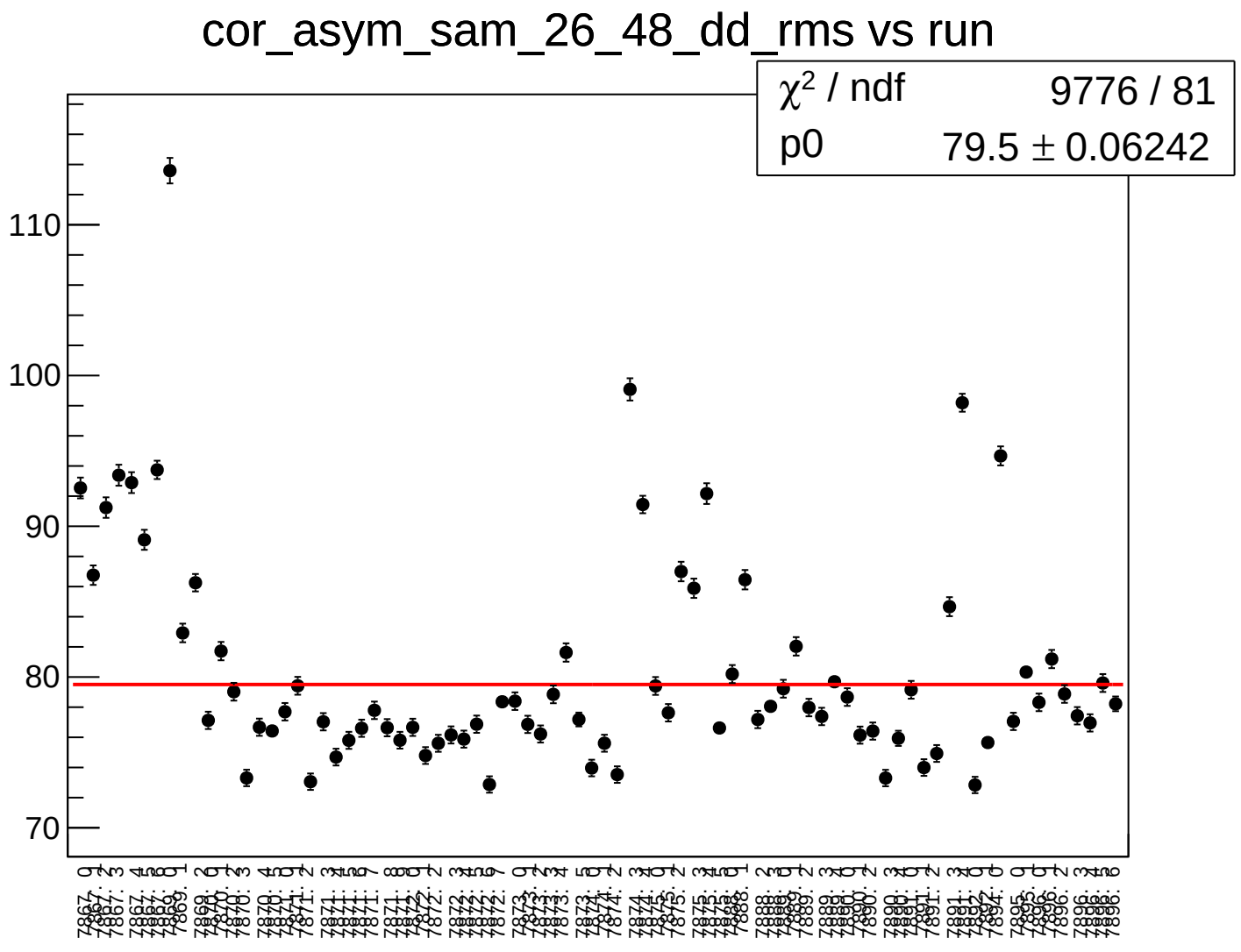

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 74.31 / 81
p0 220.9 ± 609.2
pull
Entries 82
Mean −17.41
Std Dev 0

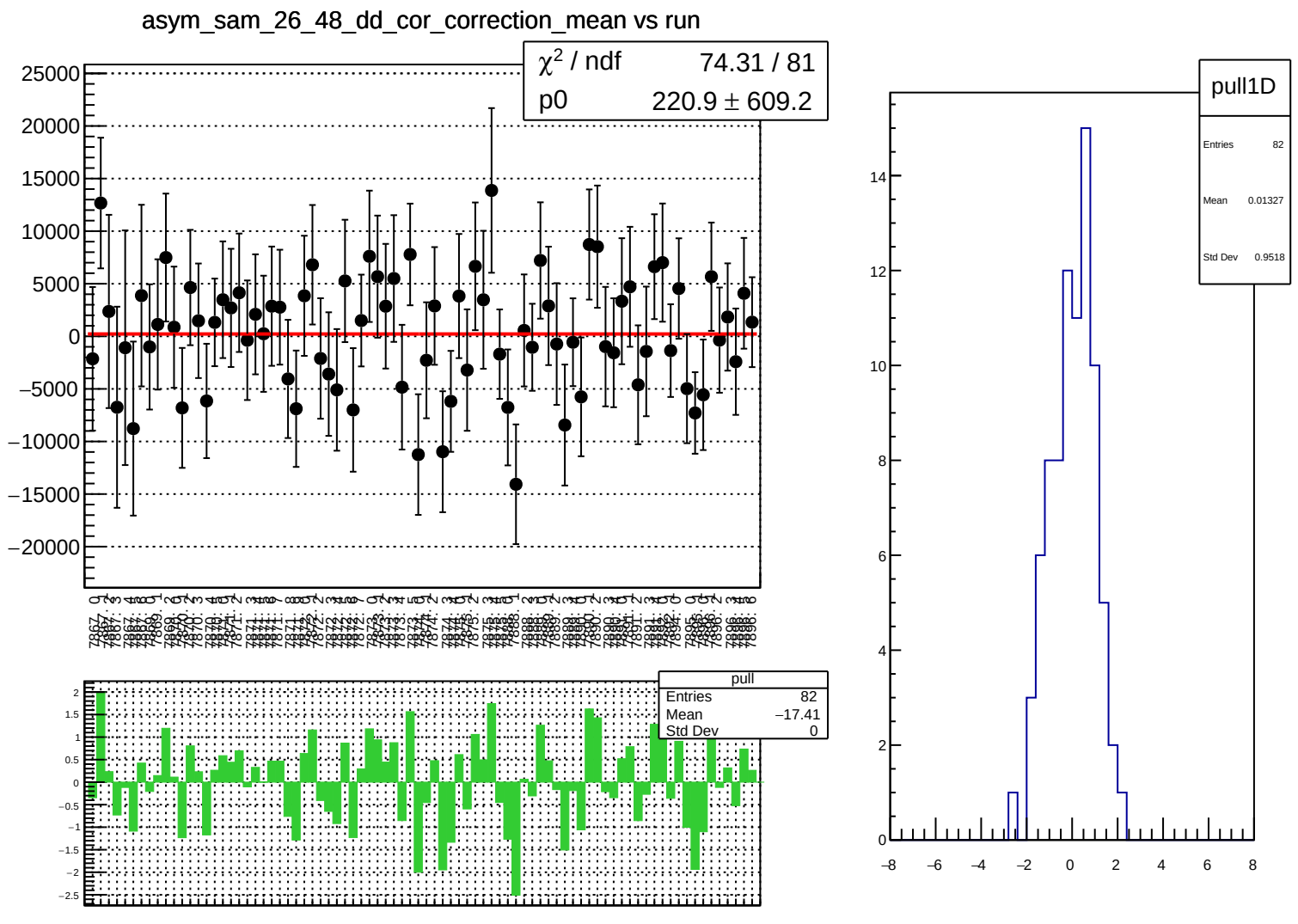

pull1D
Entries 82
Mean 0.01327
Std Dev 0.9518

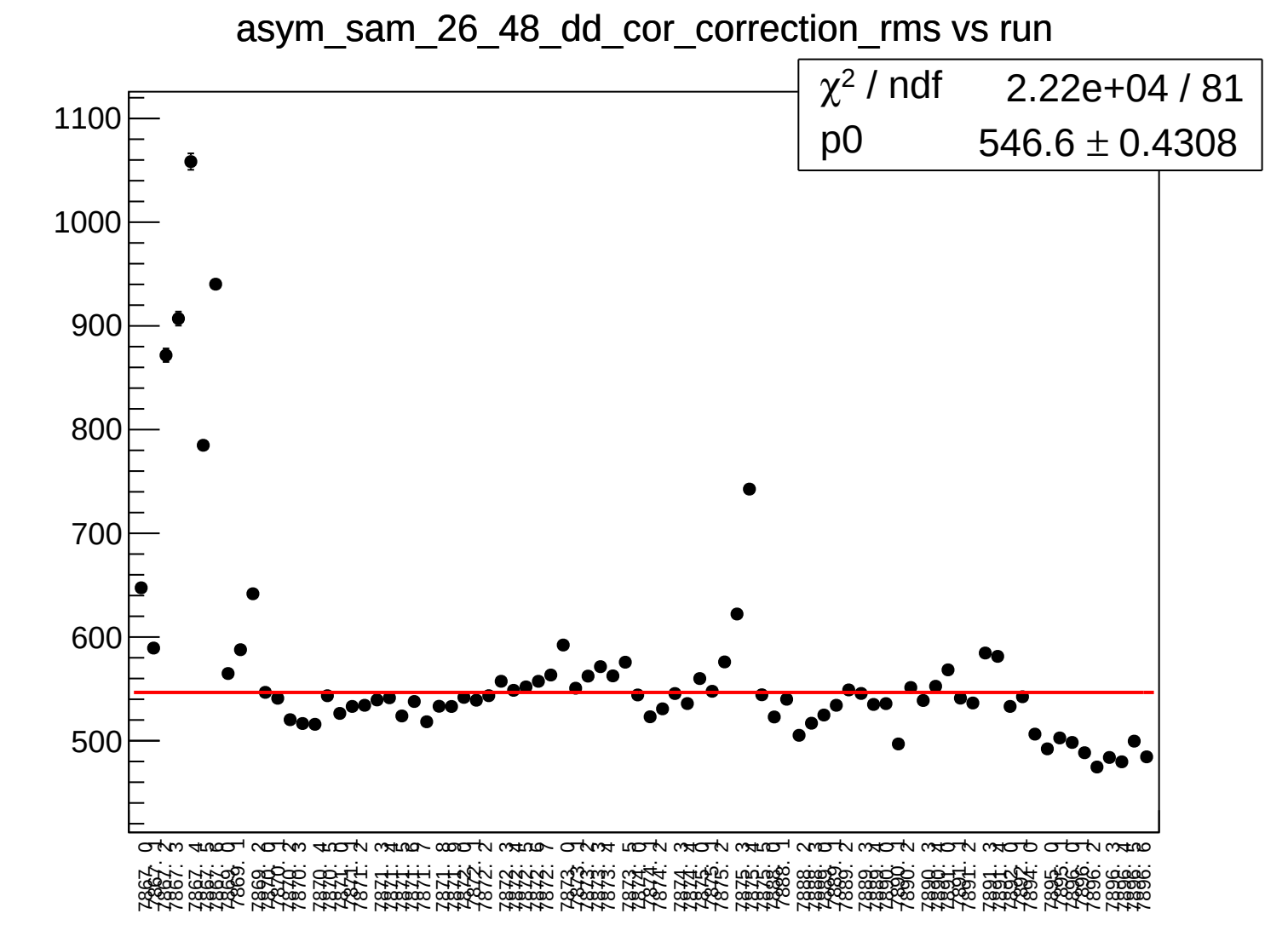

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2.22e+04 / 81
p0 546.6 ± 0.4308
1100
1000
900
800
700
600
500

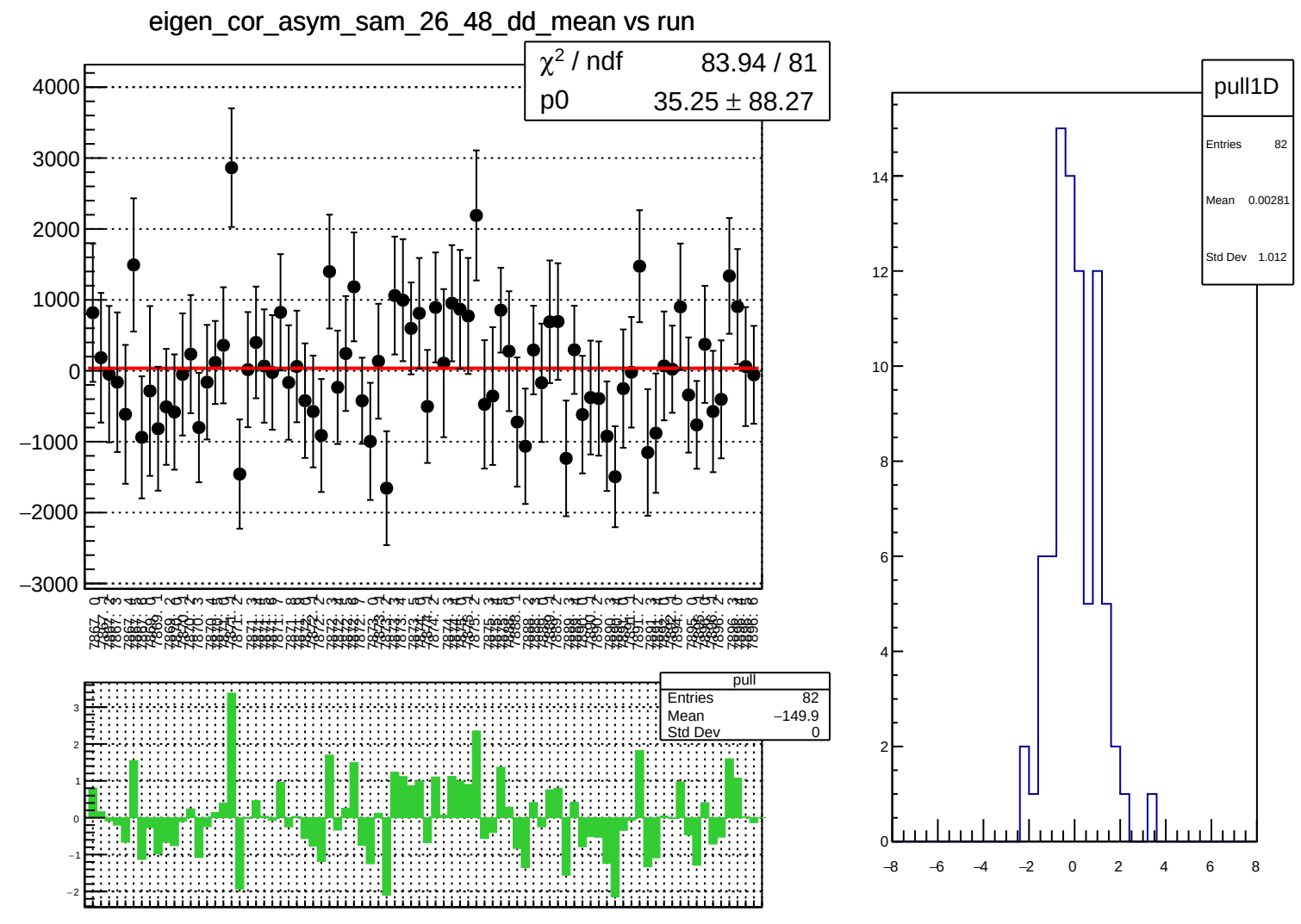

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.94 / 81
p0 35.25 ± 88.27
pull
Entries 82
Mean −149.9
Std Dev 0

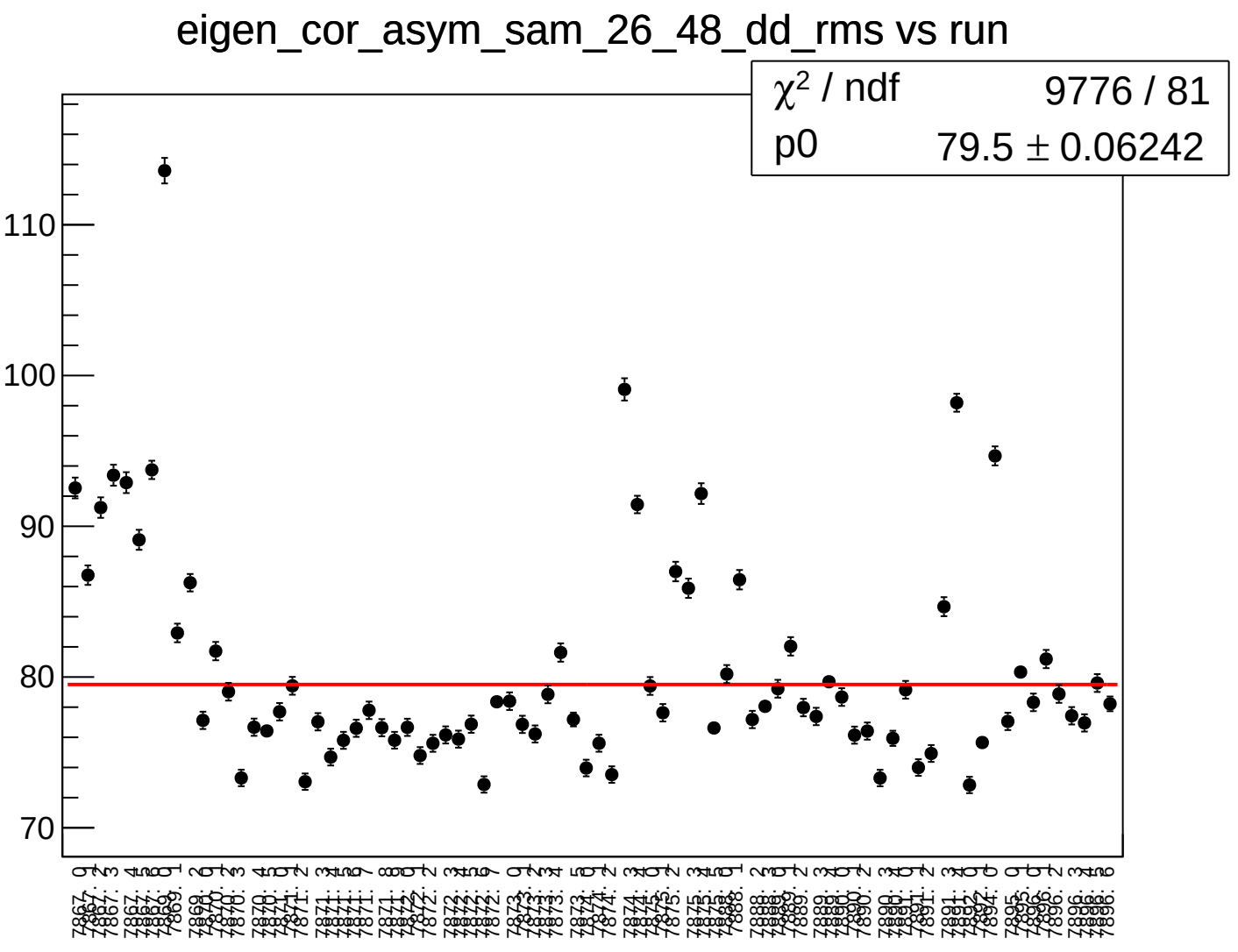

pull1D
Entries 82
Mean 0.00281
Std Dev 1.012

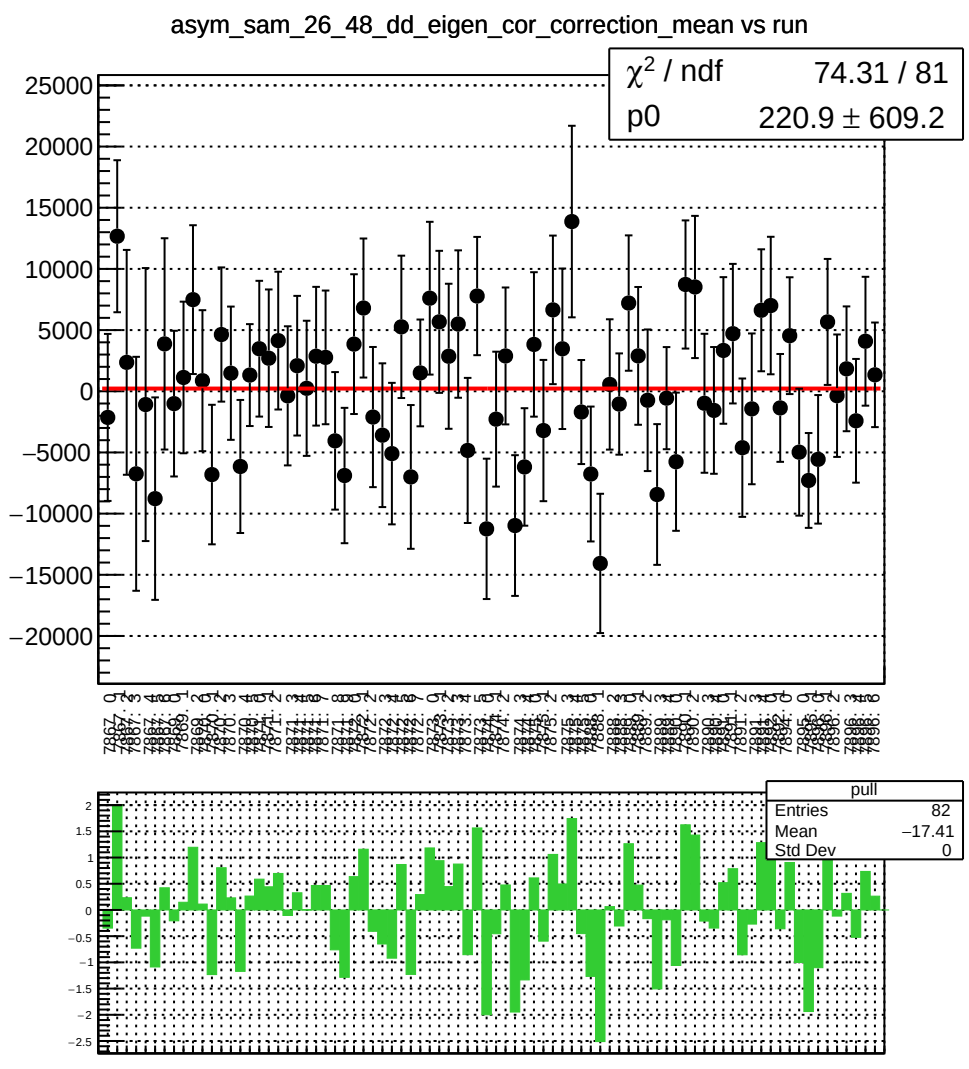

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 9776 / 81
p0 79.5 ± 0.06242
110
100
90
80
70

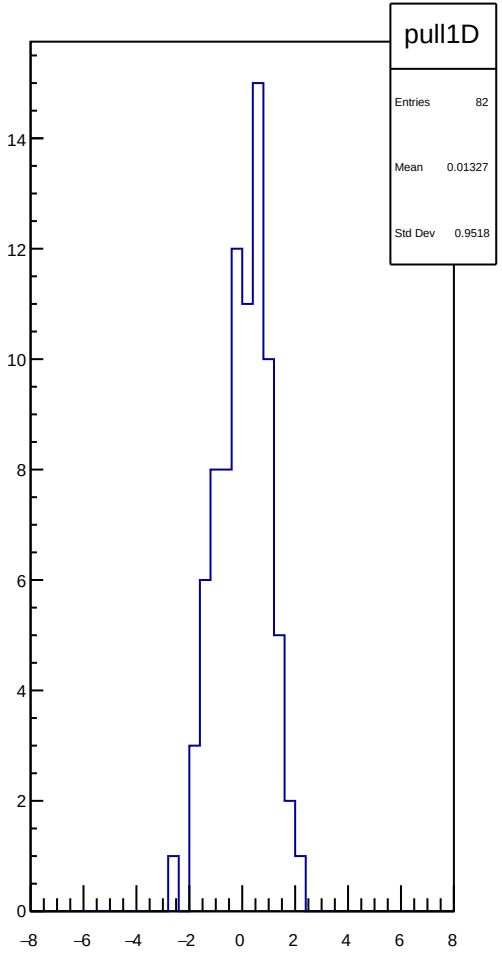

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 74.31 / 81
p0 220.9 ± 609.2
pull
Entries 82
Mean −17.41
Std Dev 0
pull1D
Entries 82
Mean 0.01327
Std Dev 0.9518

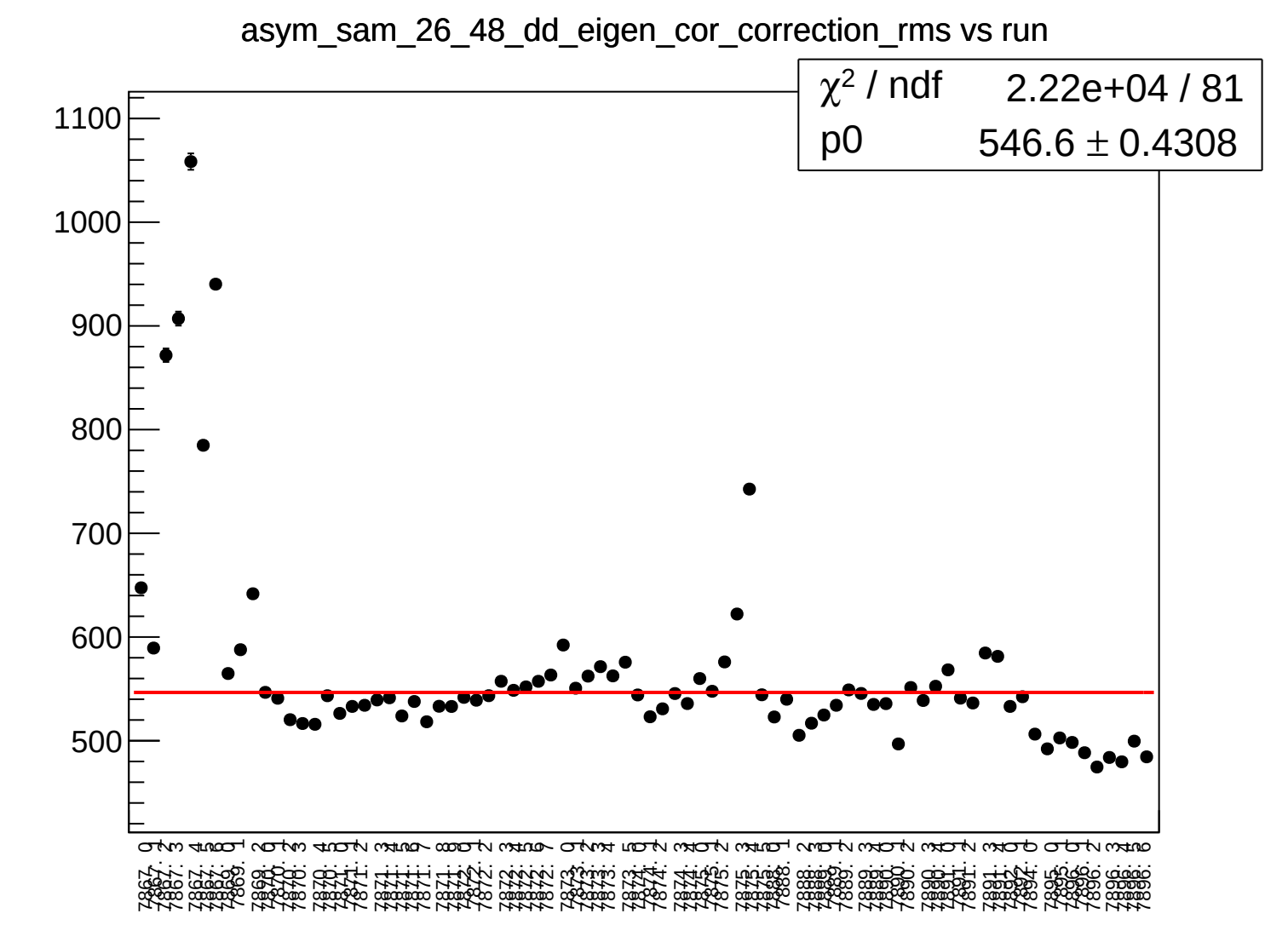

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2.22e+04 / 81
p0 546.6 ± 0.4308
1100
1000
900
800
700
600
500

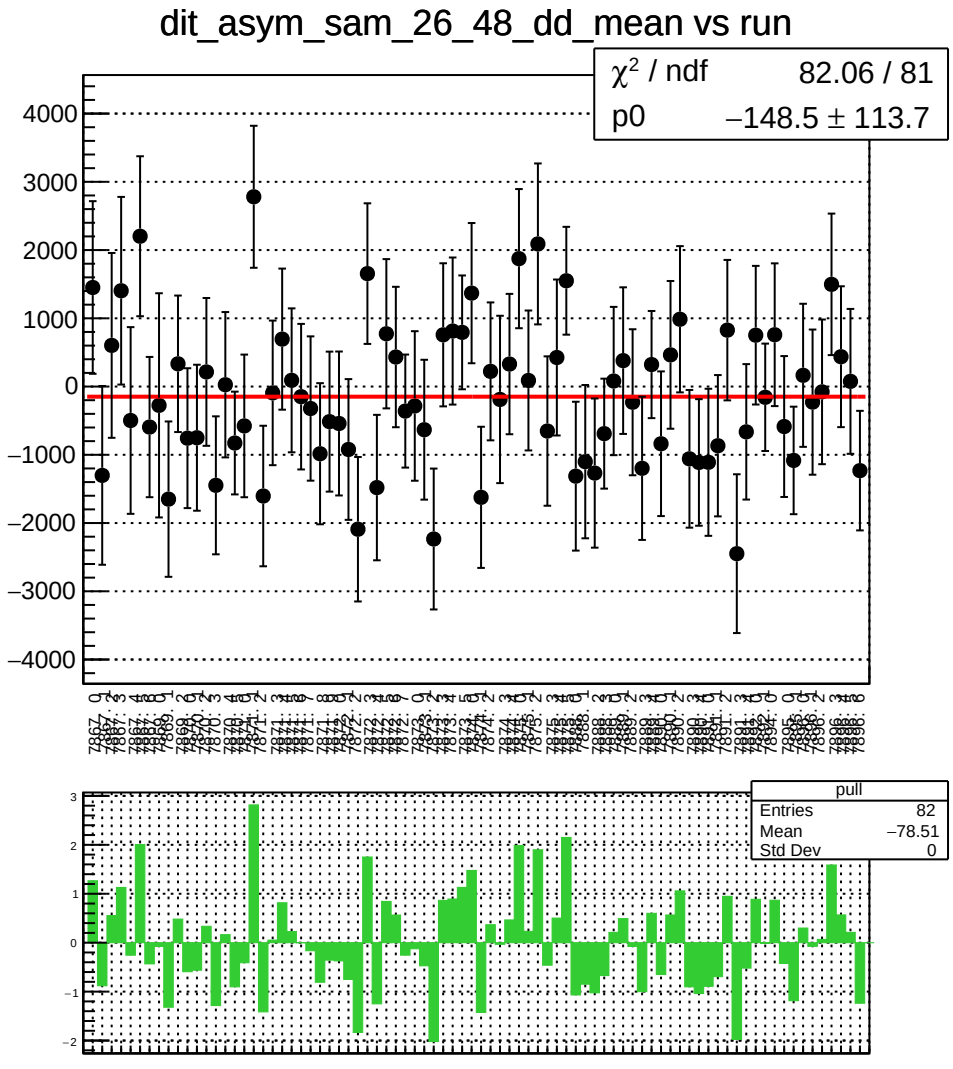

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.94 / 81
p0 35.25 ± 88.27
pull
Entries 82
Mean −149.9
Std Dev 0
pull1D
Entries 82
Mean 0.00281
Std Dev 1.012

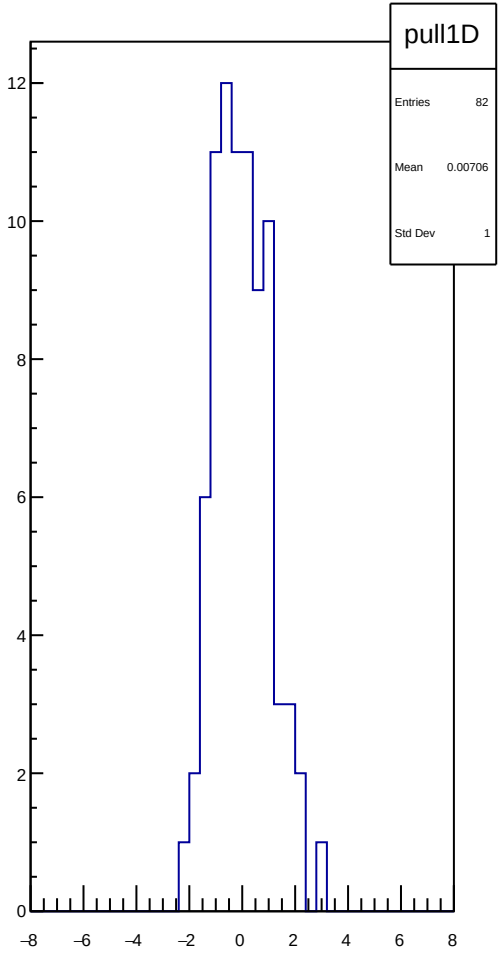

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 9776 / 81
p0 79.5 ± 0.06242
110
100
90
80
70

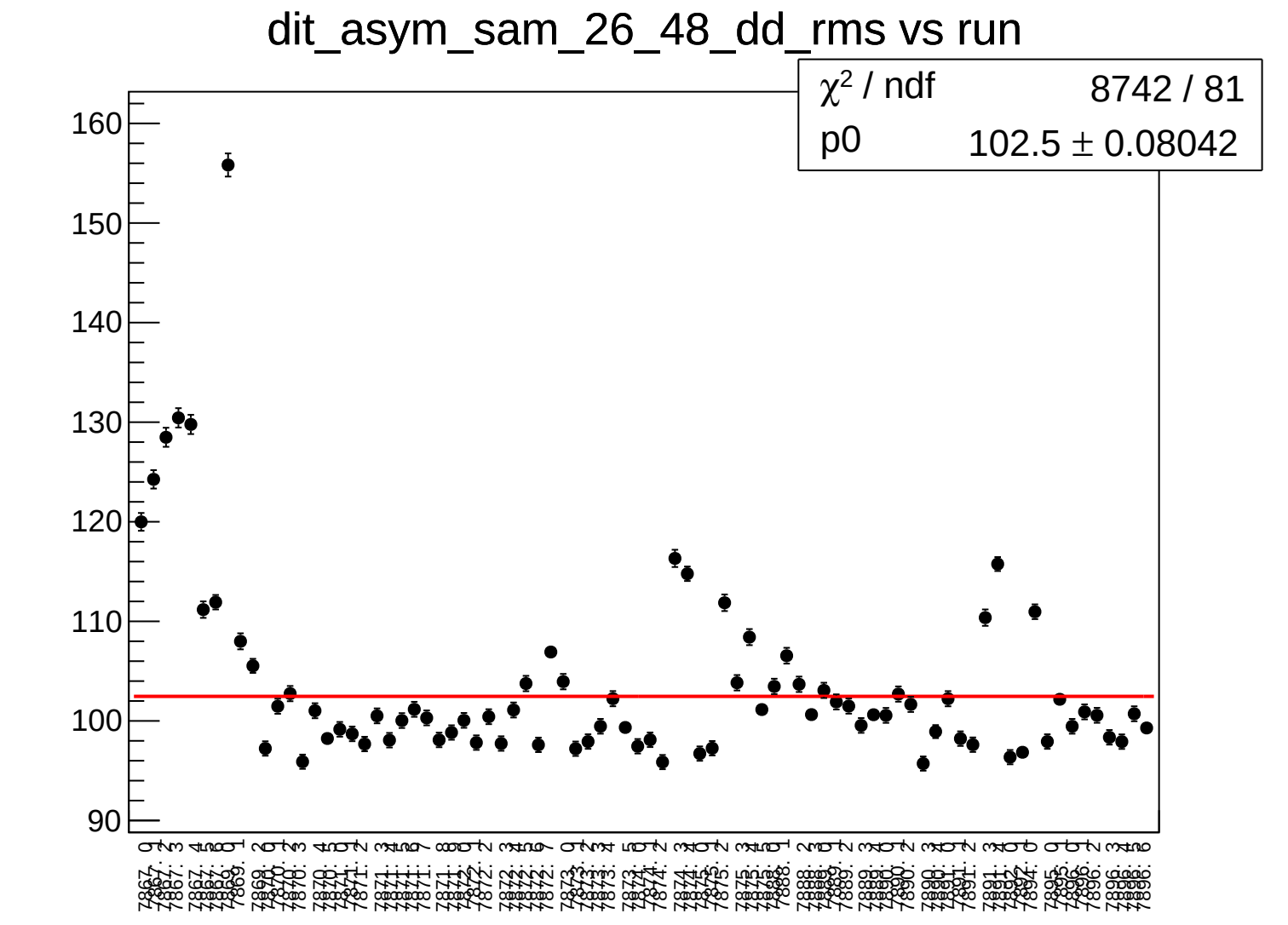

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.31 / 81
p0 220.9 ± 609.2
pull
Entries 82
Mean −17.41
Std Dev 0

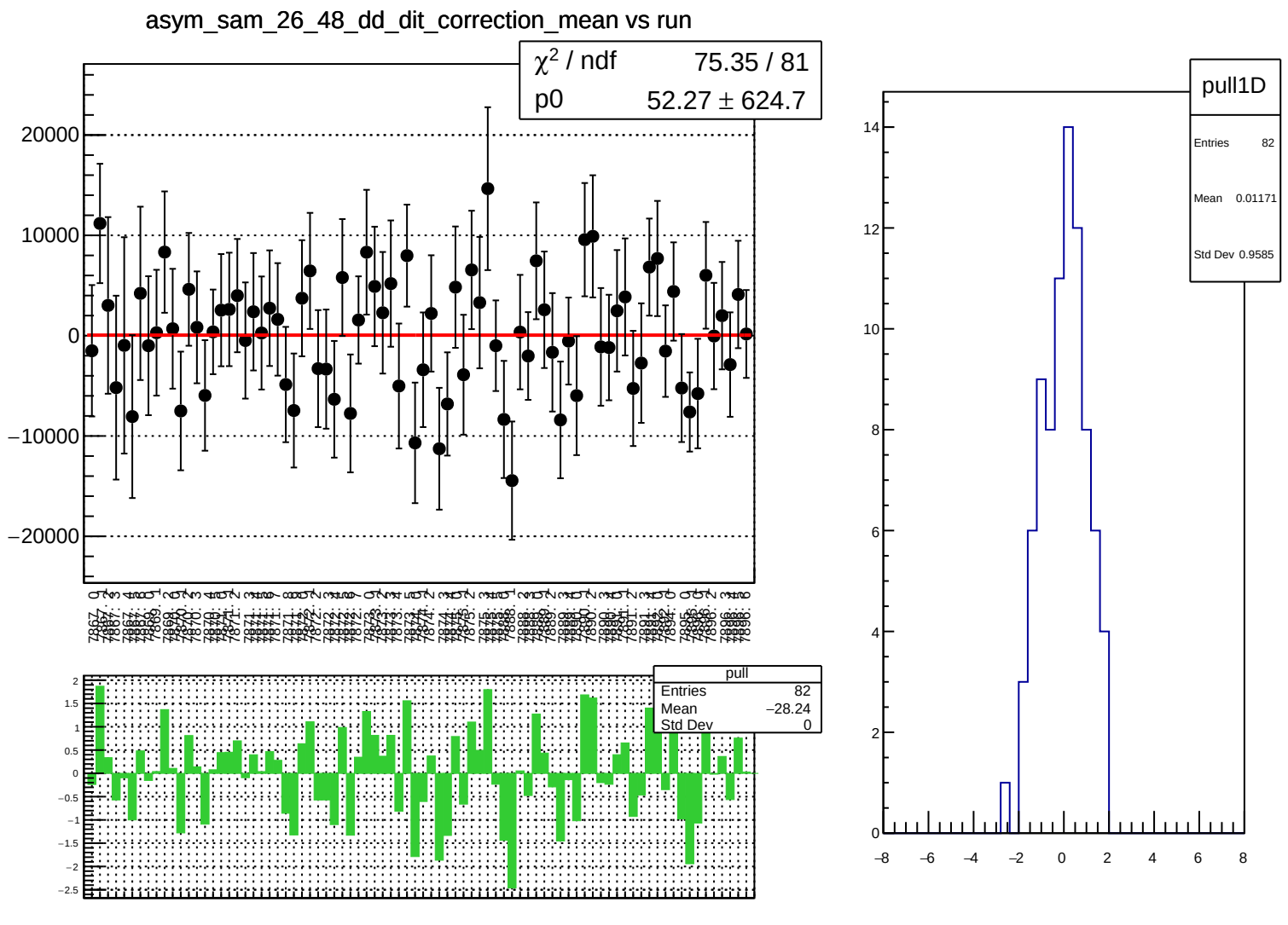

pull1D
Entries 82
Mean 0.01327
Std Dev 0.9518

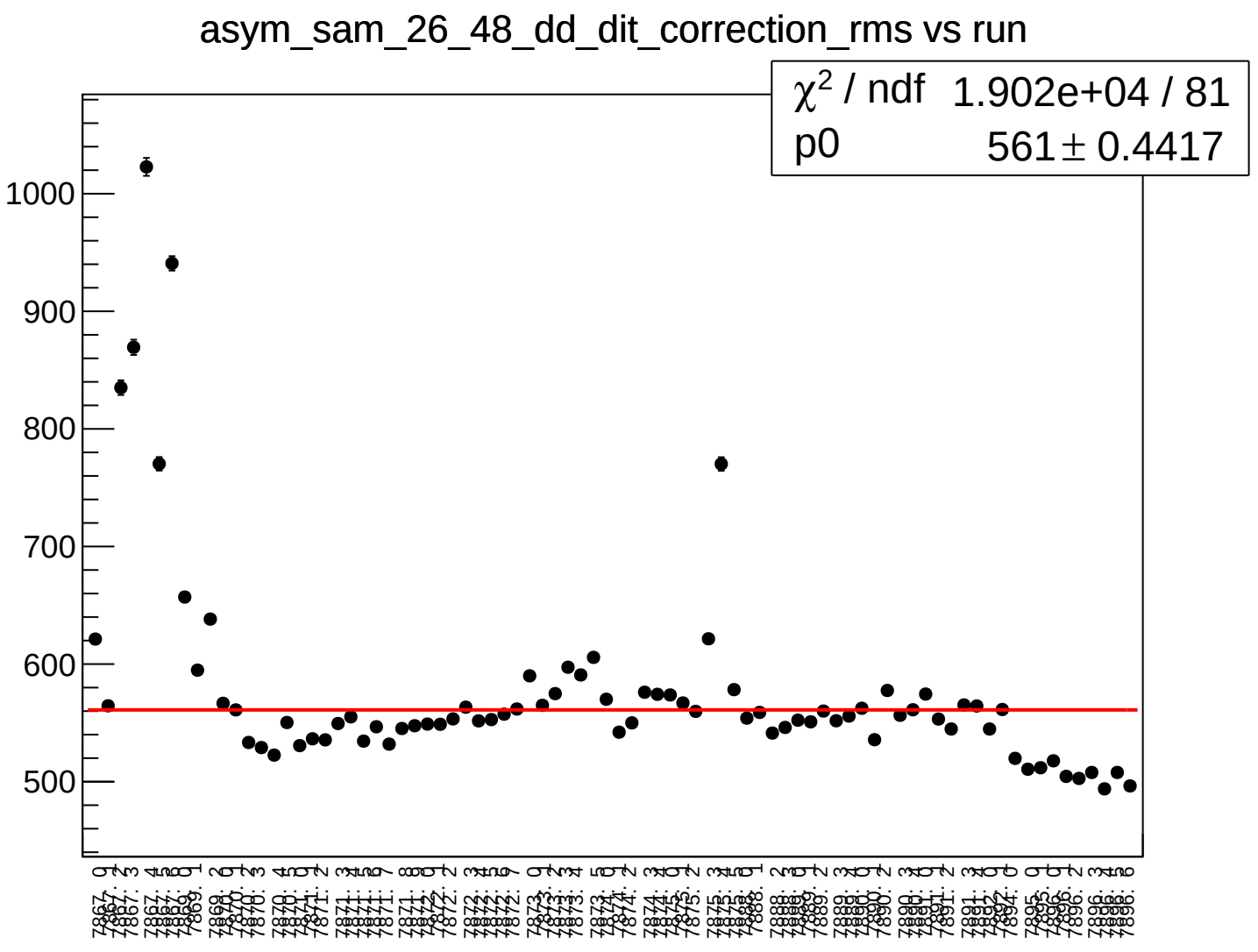

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.22e+04 / 81
p0 546.6 ± 0.4308
1100
1000
900
800
700
600
500

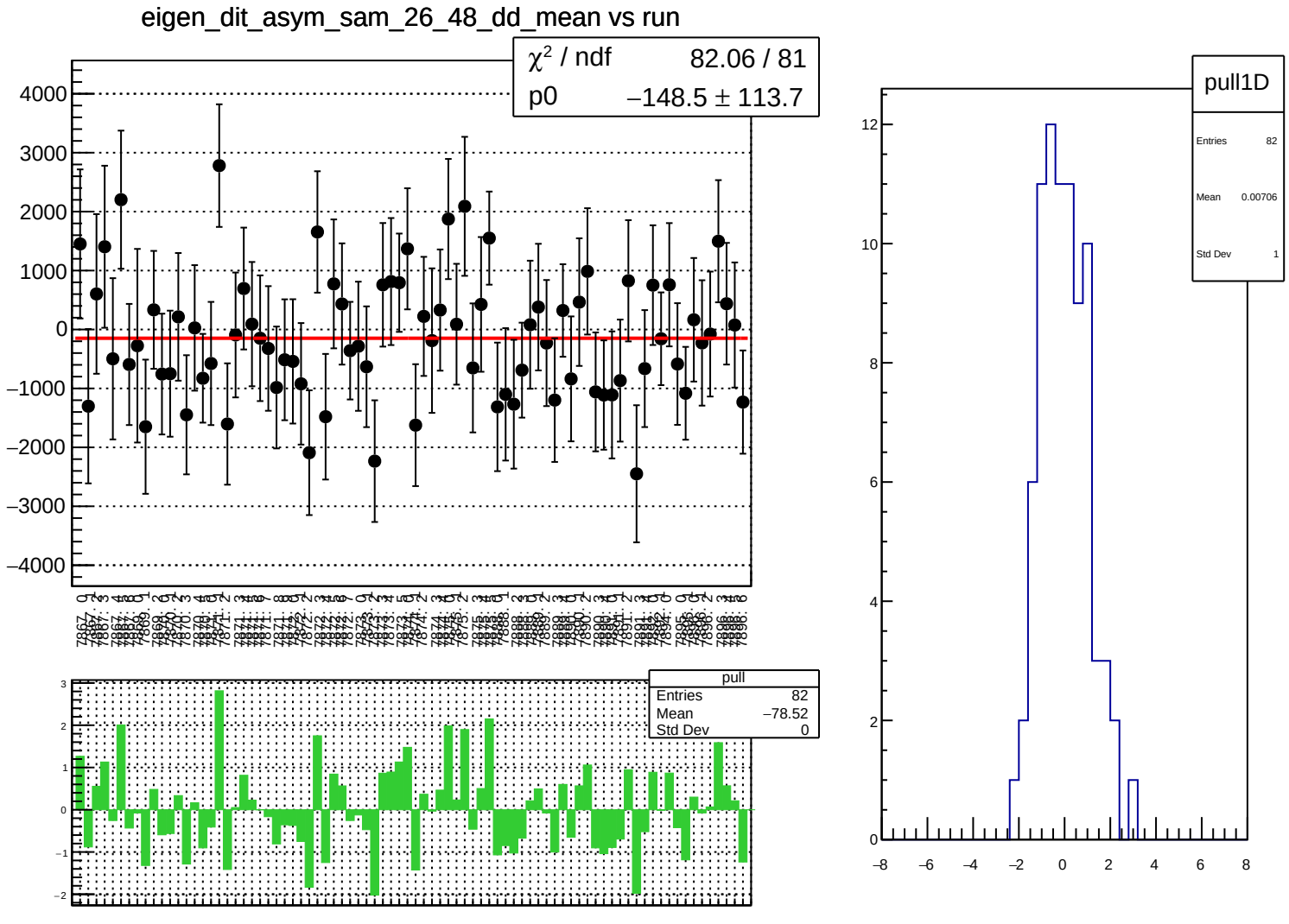

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 82.06 / 81
p0 −148.5 ± 113.7
pull
Entries 82
Mean −78.51
Std Dev 0

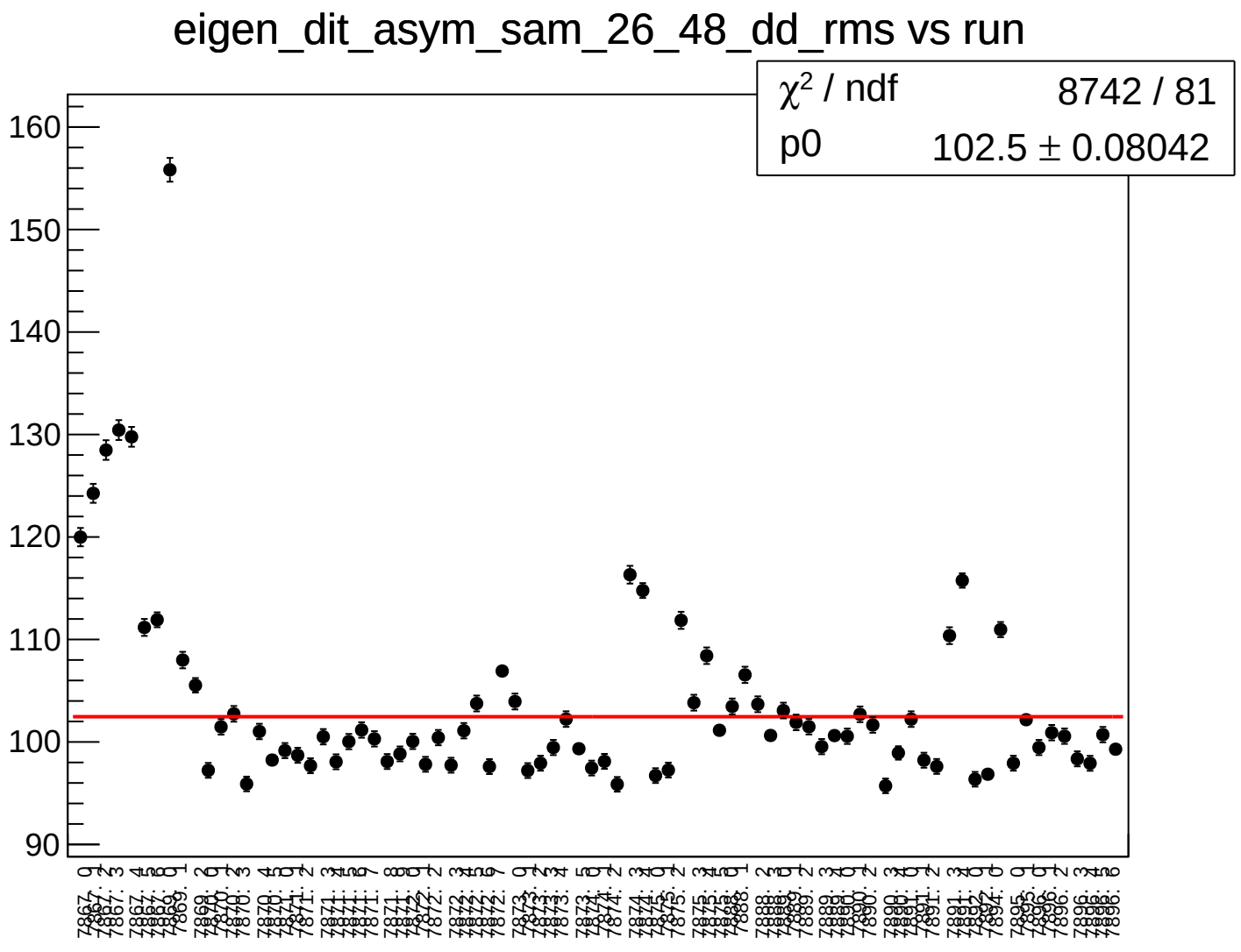

pull1D
Entries 82
Mean 0.00706
Std Dev 1

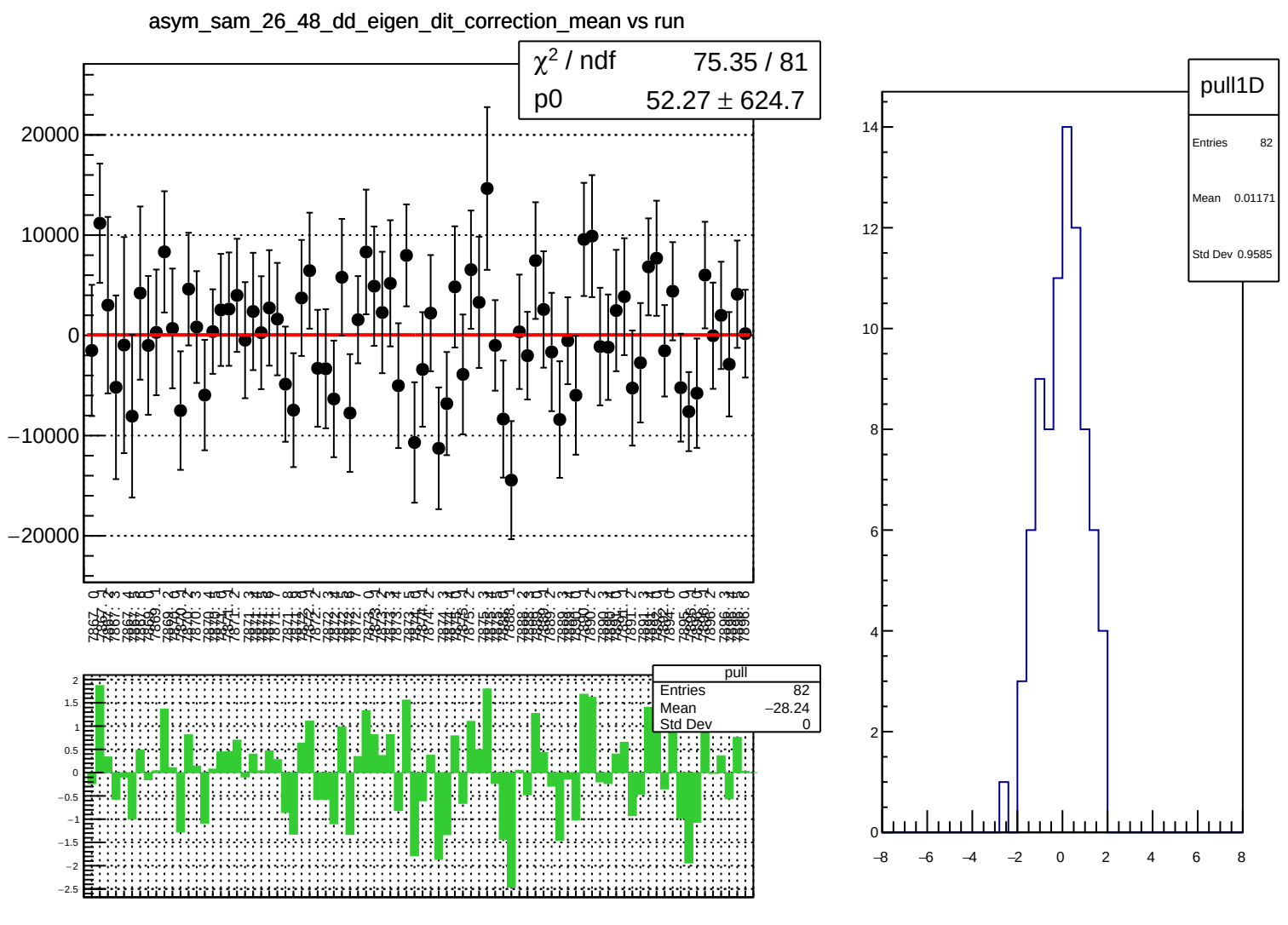

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8742 / 81
p0 102.5 ± 0.08042
160
150
140
130
120
110
100
90

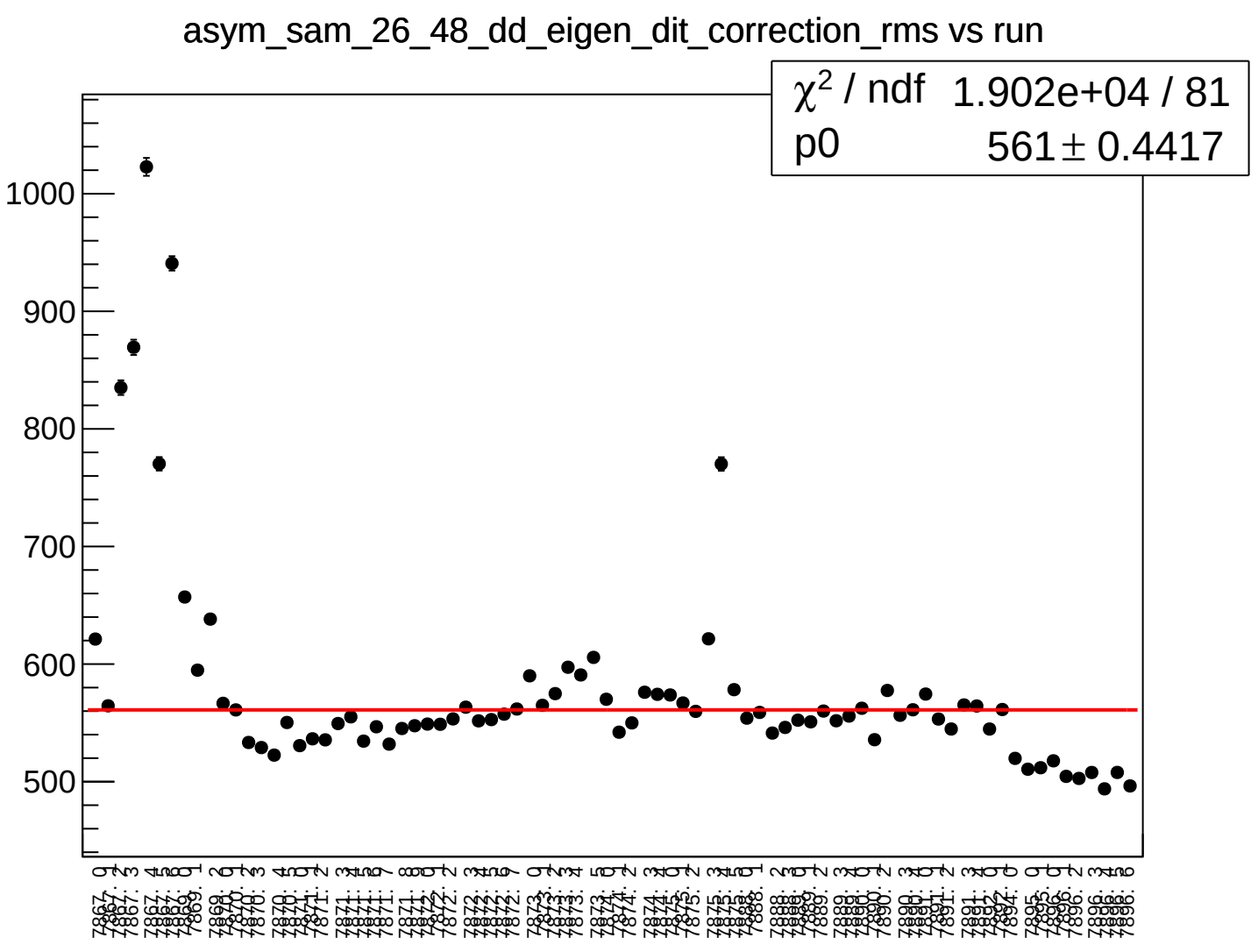

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 75.35 / 81
p0 52.27 ± 624.7
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −28.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean 0.01171
Std Dev 0.9585
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

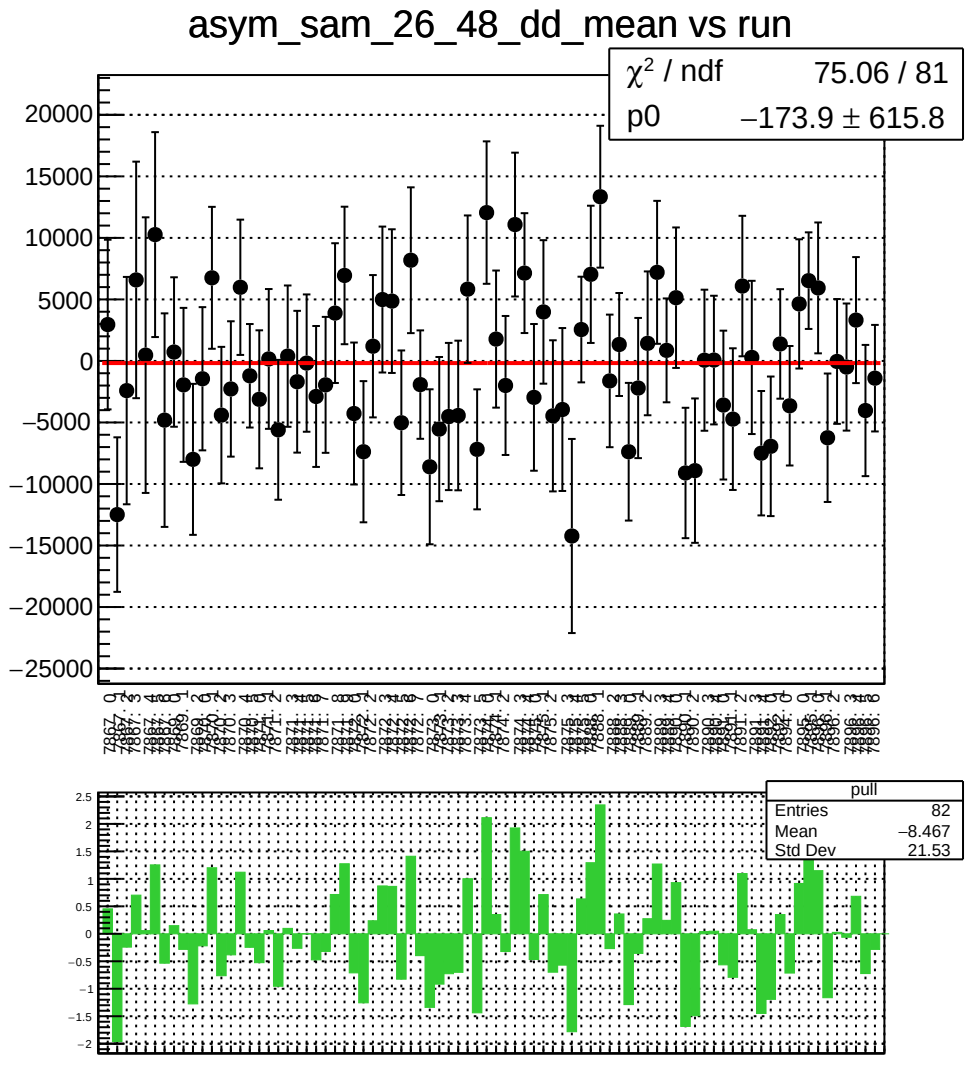

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.902e+04 / 81
p0 561 ± 0.4417
1000
900
800
700
600
500

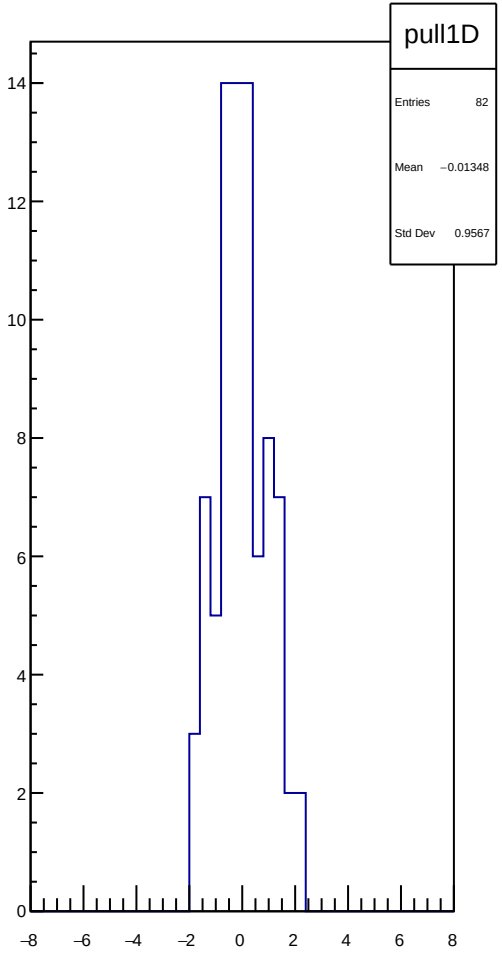

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 82.06 / 81
p0 −148.5 ± 113.7
pull
Entries 82
Mean −78.52
Std Dev 0
pull1D
Entries 82
Mean 0.00706
Std Dev 1

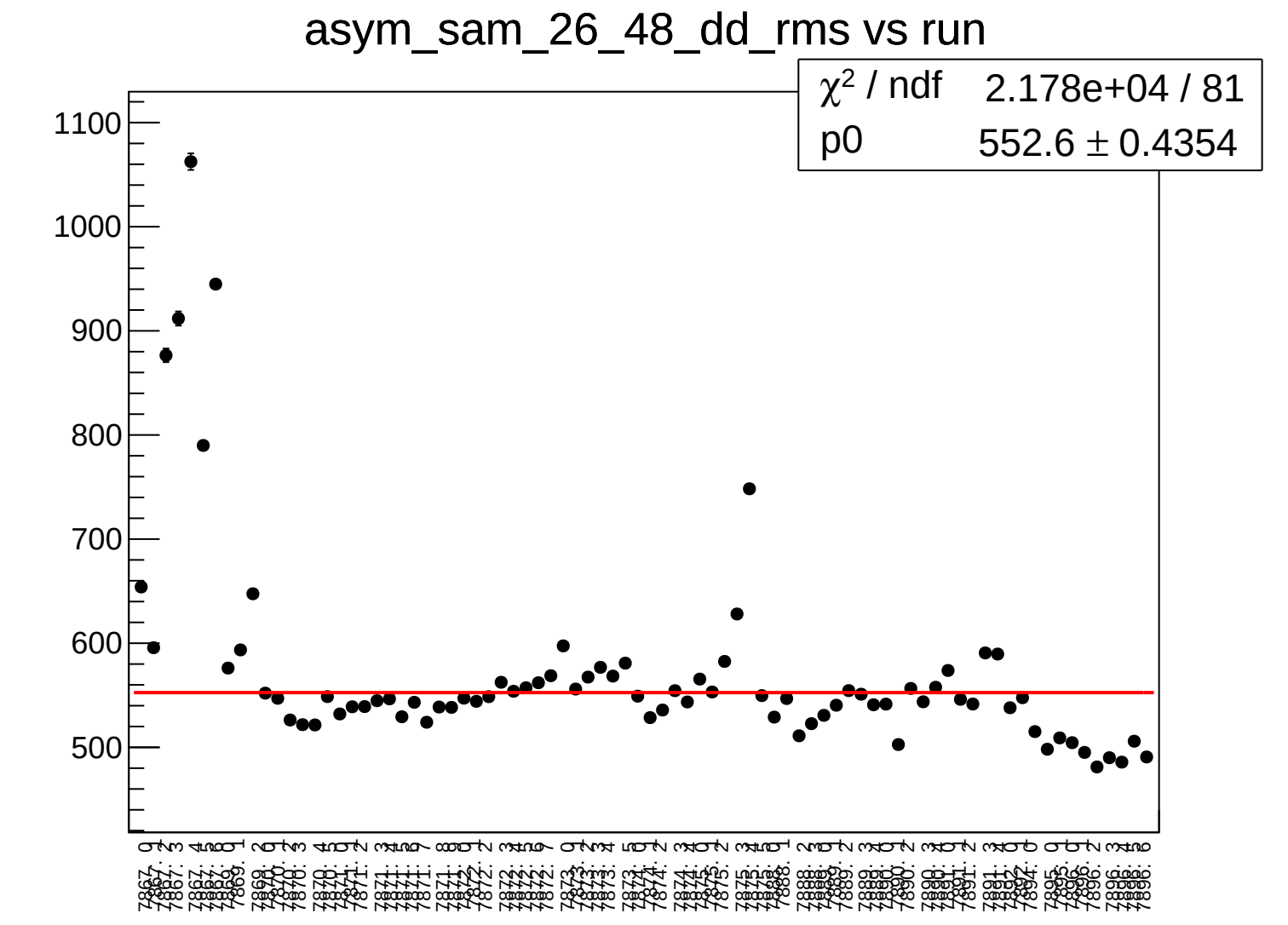

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8742 / 81
p0 102.5 ± 0.08042
160
150
140
130
120
110
100
90

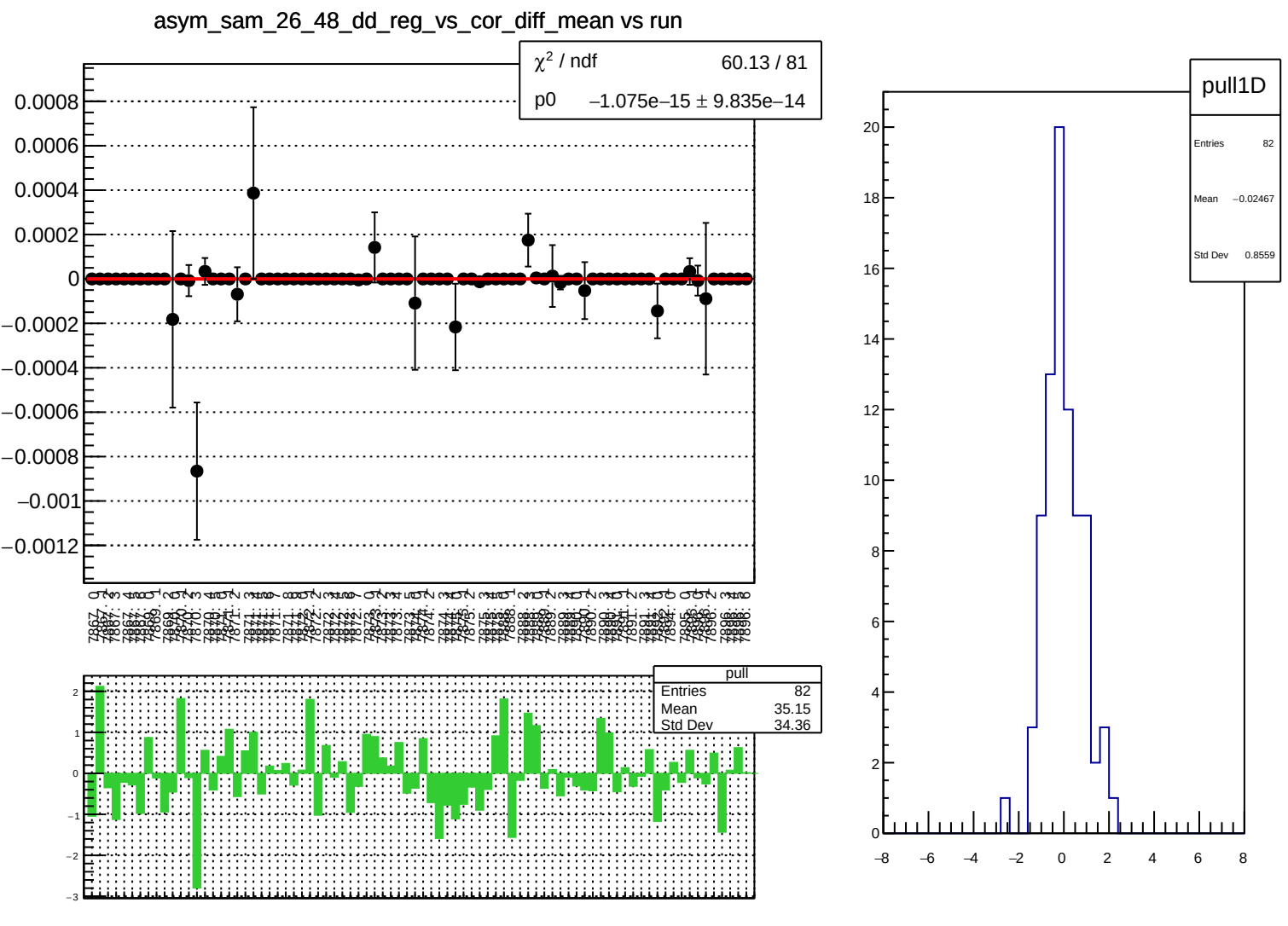

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.35 / 81
p0 52.27 ± 624.7
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −28.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean 0.01171
Std Dev 0.9585
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

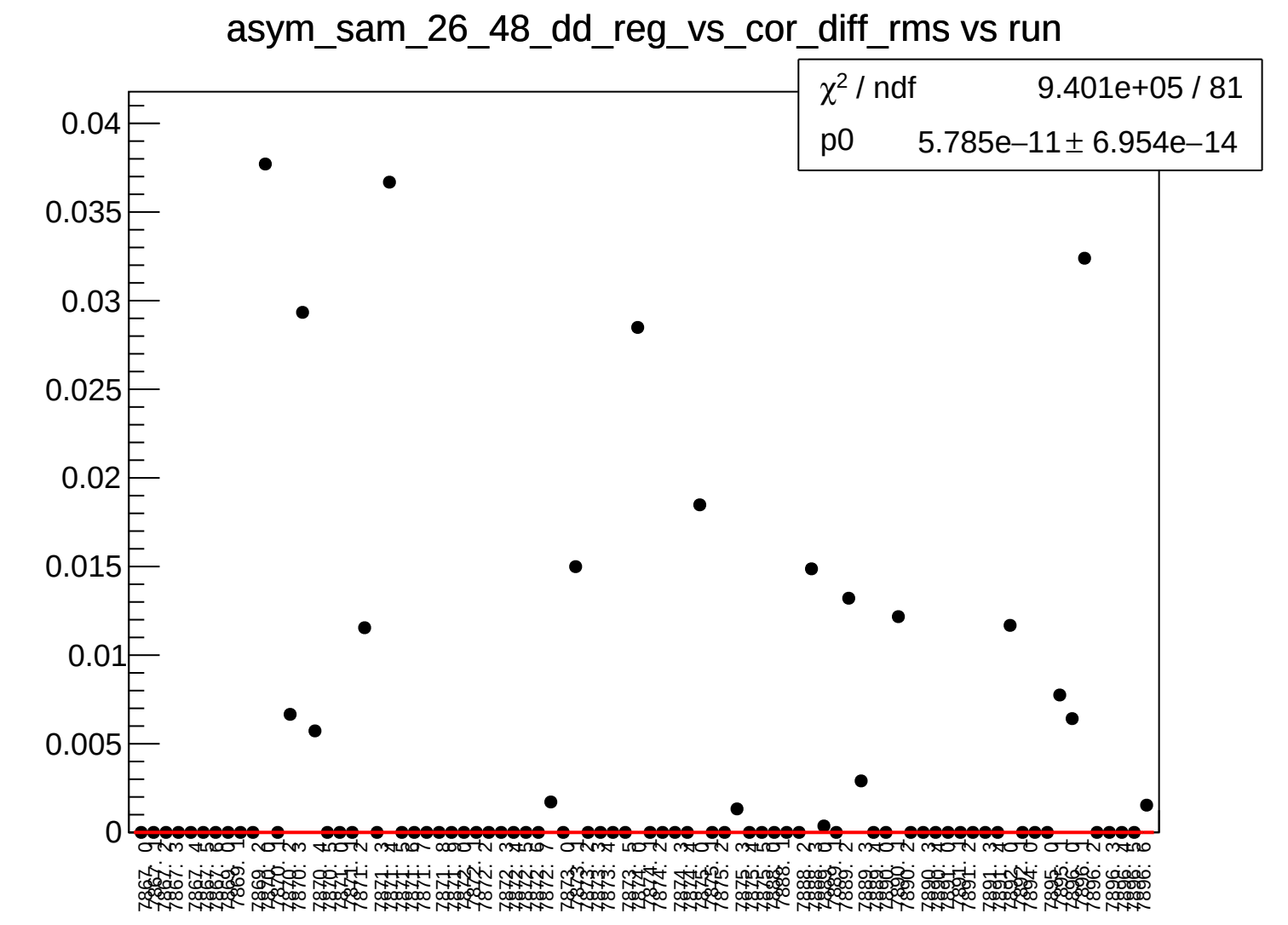

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.902e+04 / 81
p0 561 ± 0.4417
1000
900
800
700
600
500

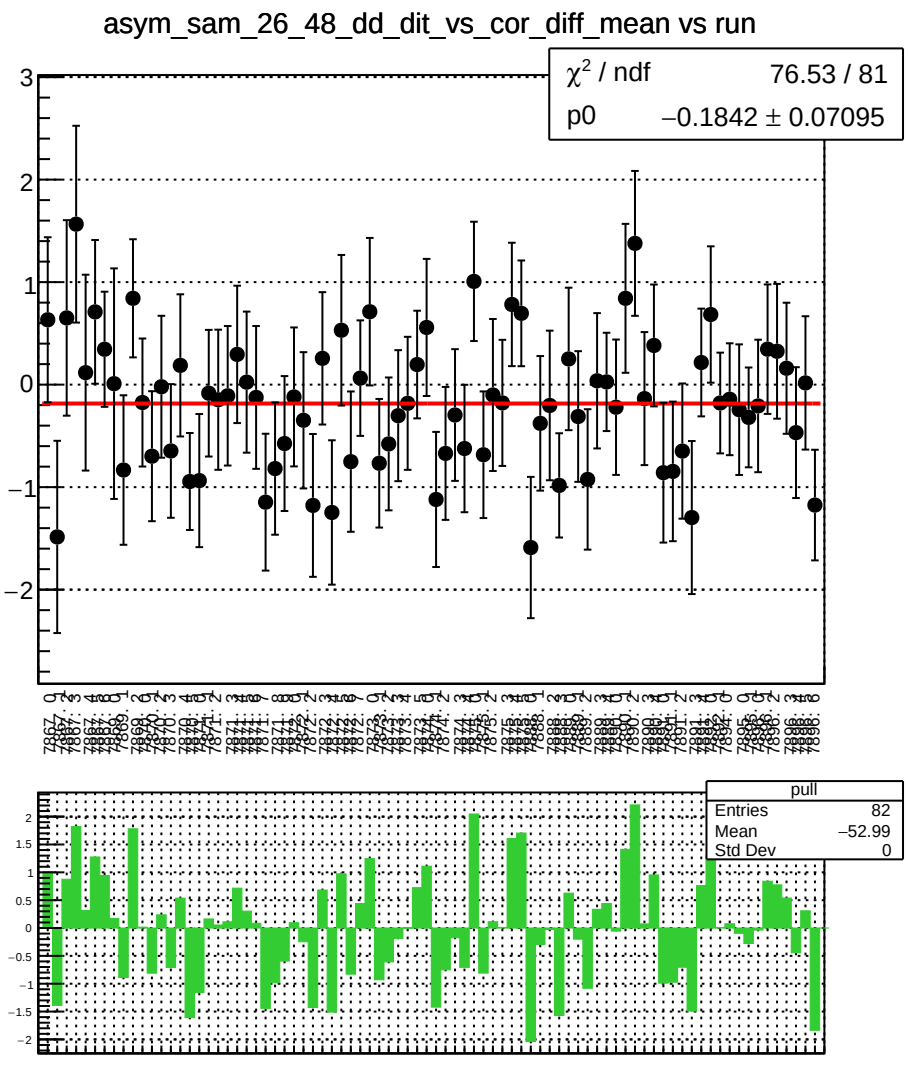

asym_sam_26_48_dd_mean vs run
χ² / ndf 75.06 / 81
p0 −173.9 ± 615.8
pull
Entries 82
Mean −8.467
Std Dev 21.53

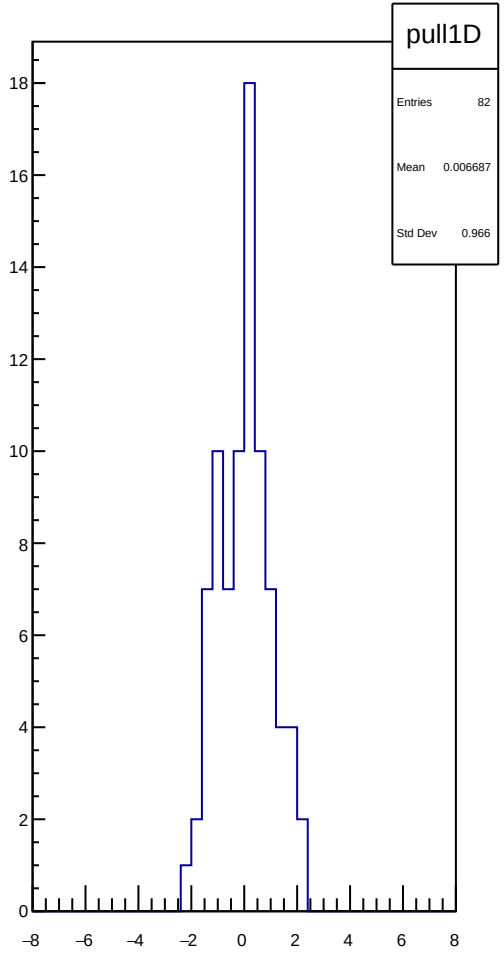

pull1D
Entries 82
Mean −0.01348
Std Dev 0.9567

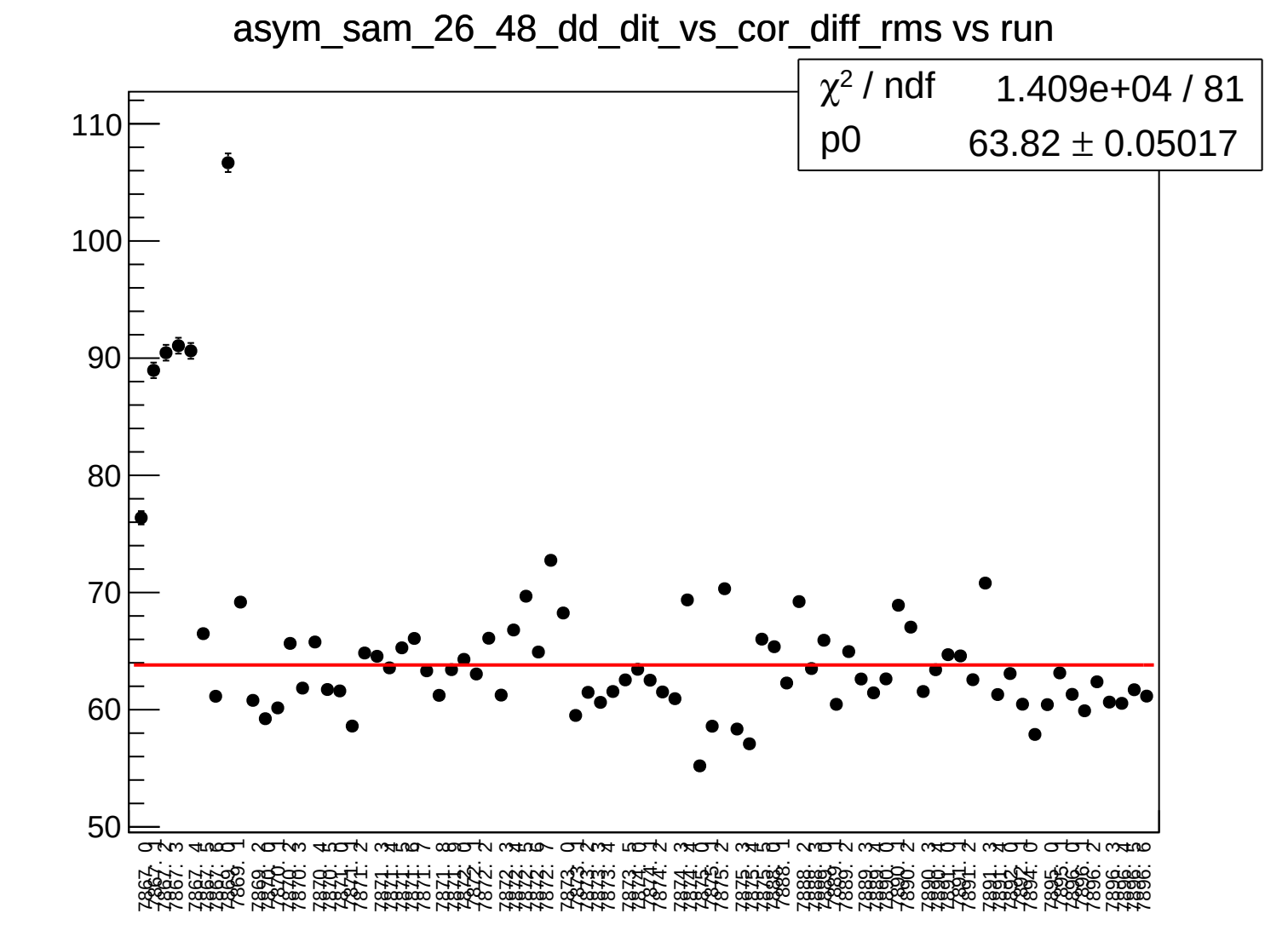

asym_sam_26_48_dd_rms vs run
χ² / ndf 2.178e+04 / 81
p0 552.6 ± 0.4354
1100
1000
900
800
700
600
500

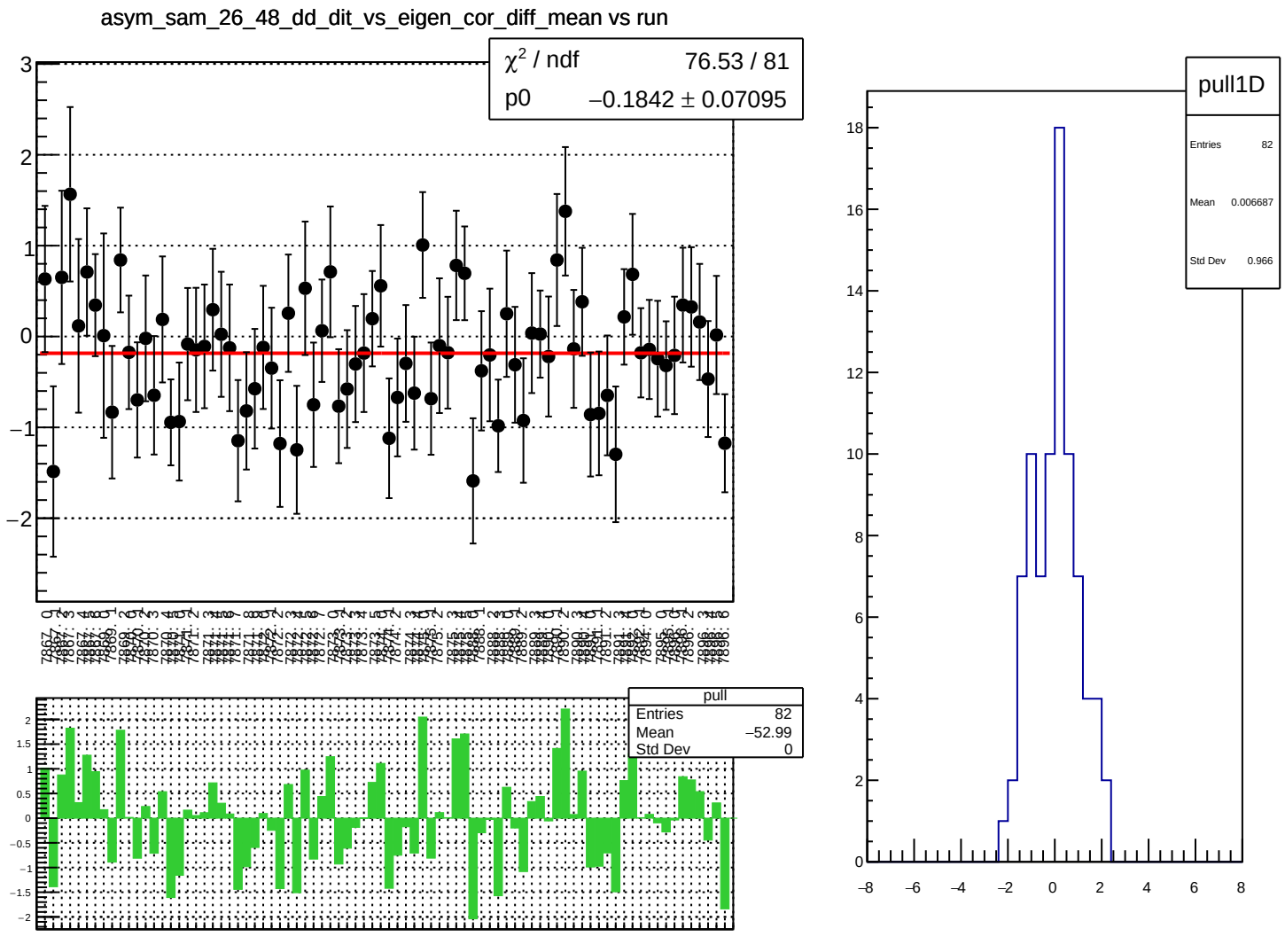

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.13 / 81
p0 −1.075e−15 ± 9.835e−14
pull
Entries 82
Mean 35.15
Std Dev 34.36
pull1D
Entries 82
Mean −0.02467
Std Dev 0.8559

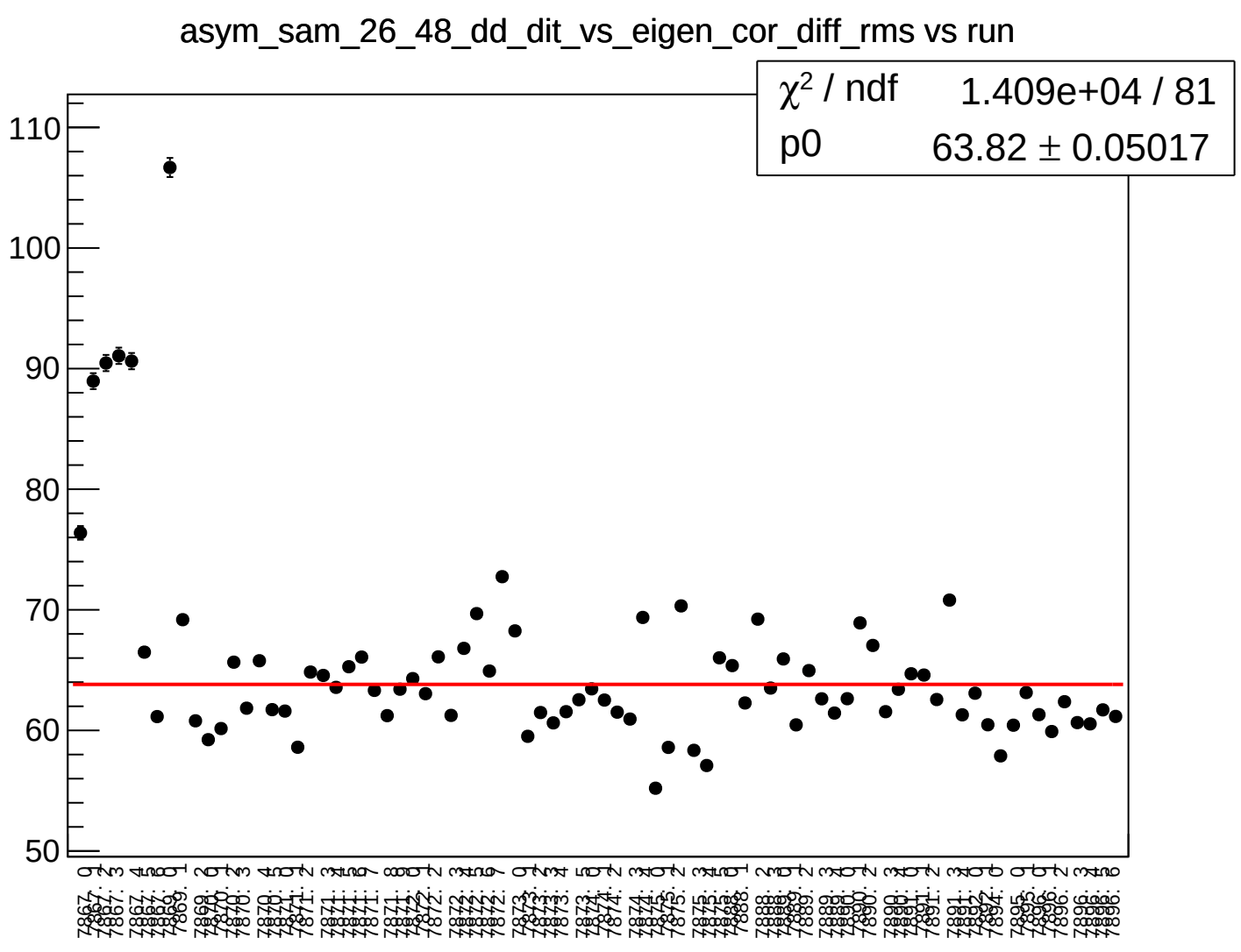

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.401e+05 / 81
p0 5.785e−11 ± 6.954e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

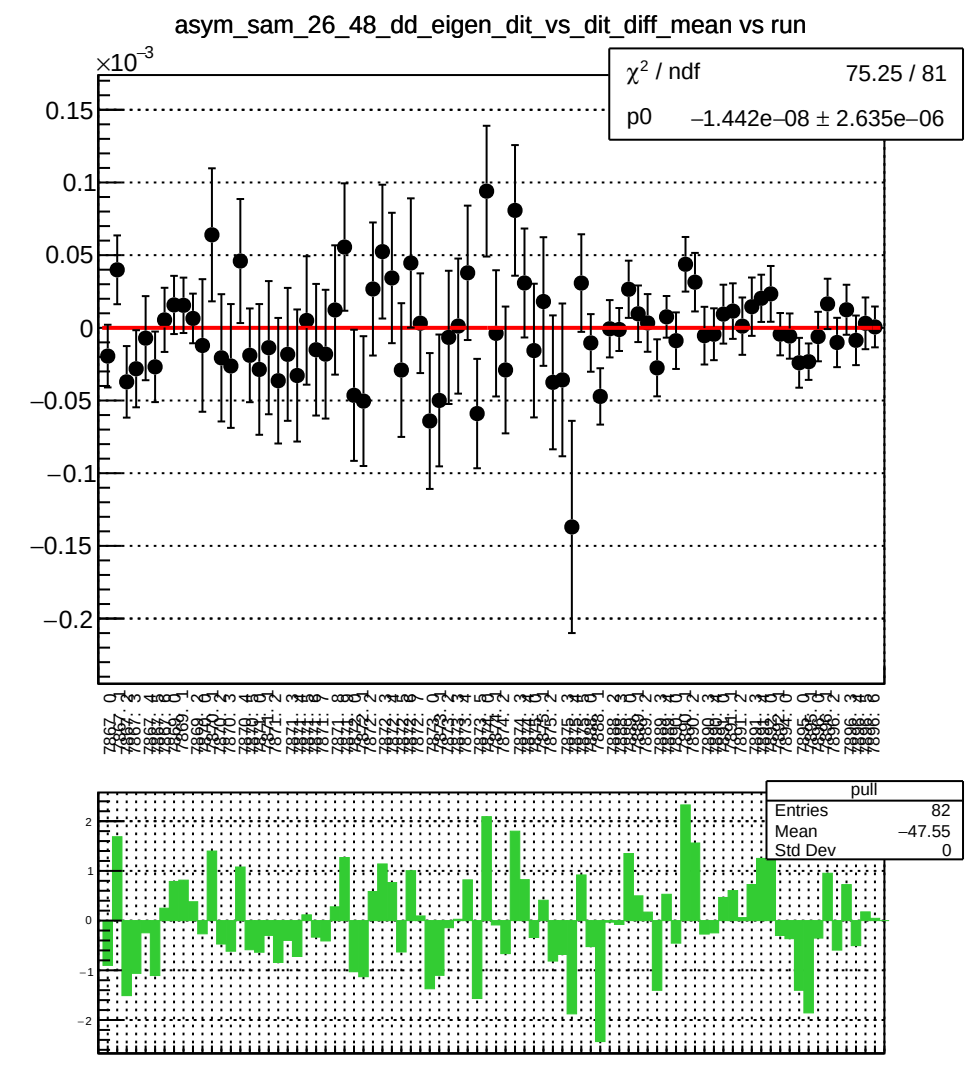

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 81
p0 −0.1842 ± 0.07095
pull
Entries 82
Mean −52.99
Std Dev 0

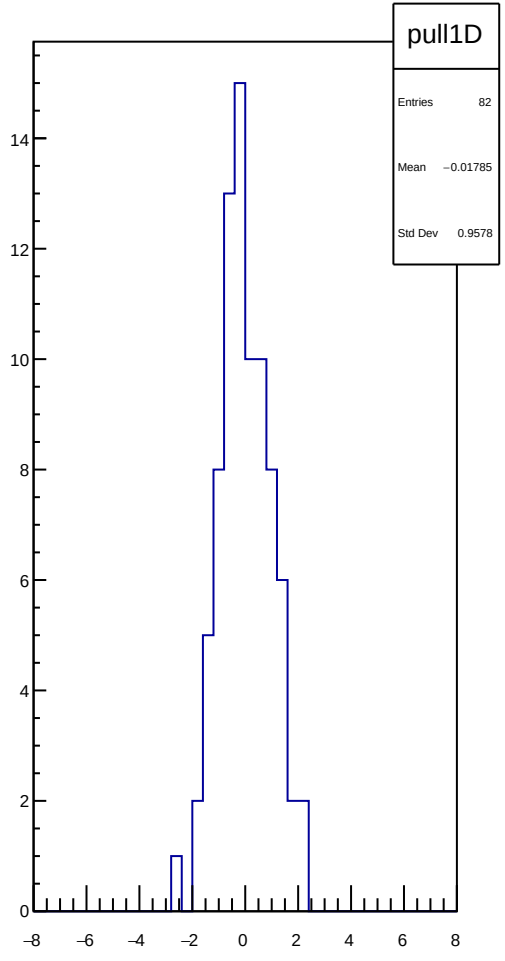

pull1D
Entries 82
Mean 0.006687
Std Dev 0.966

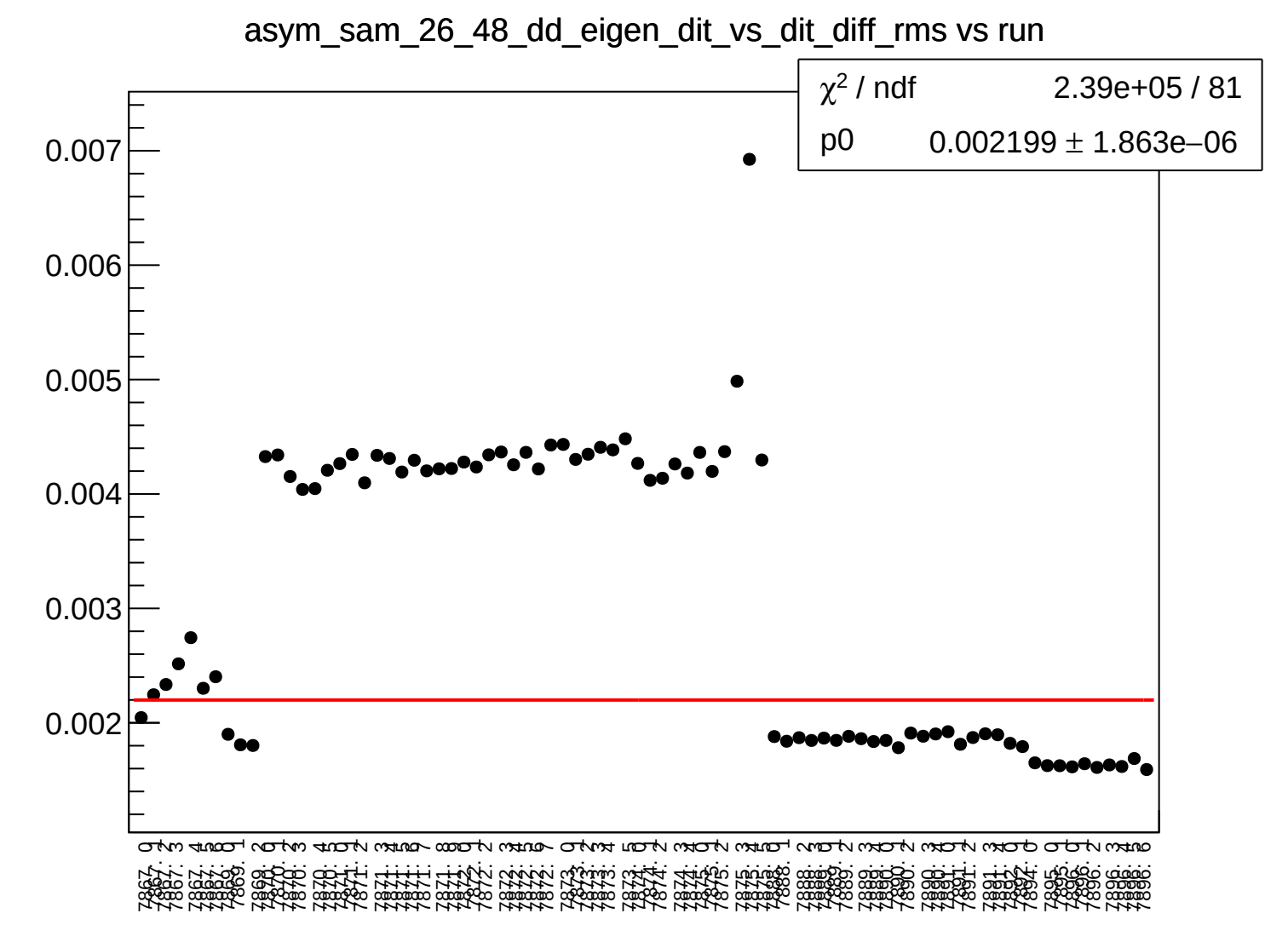

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.409e+04 / 81
p0 63.82 ± 0.05017
110
100
90
80
70
60
50

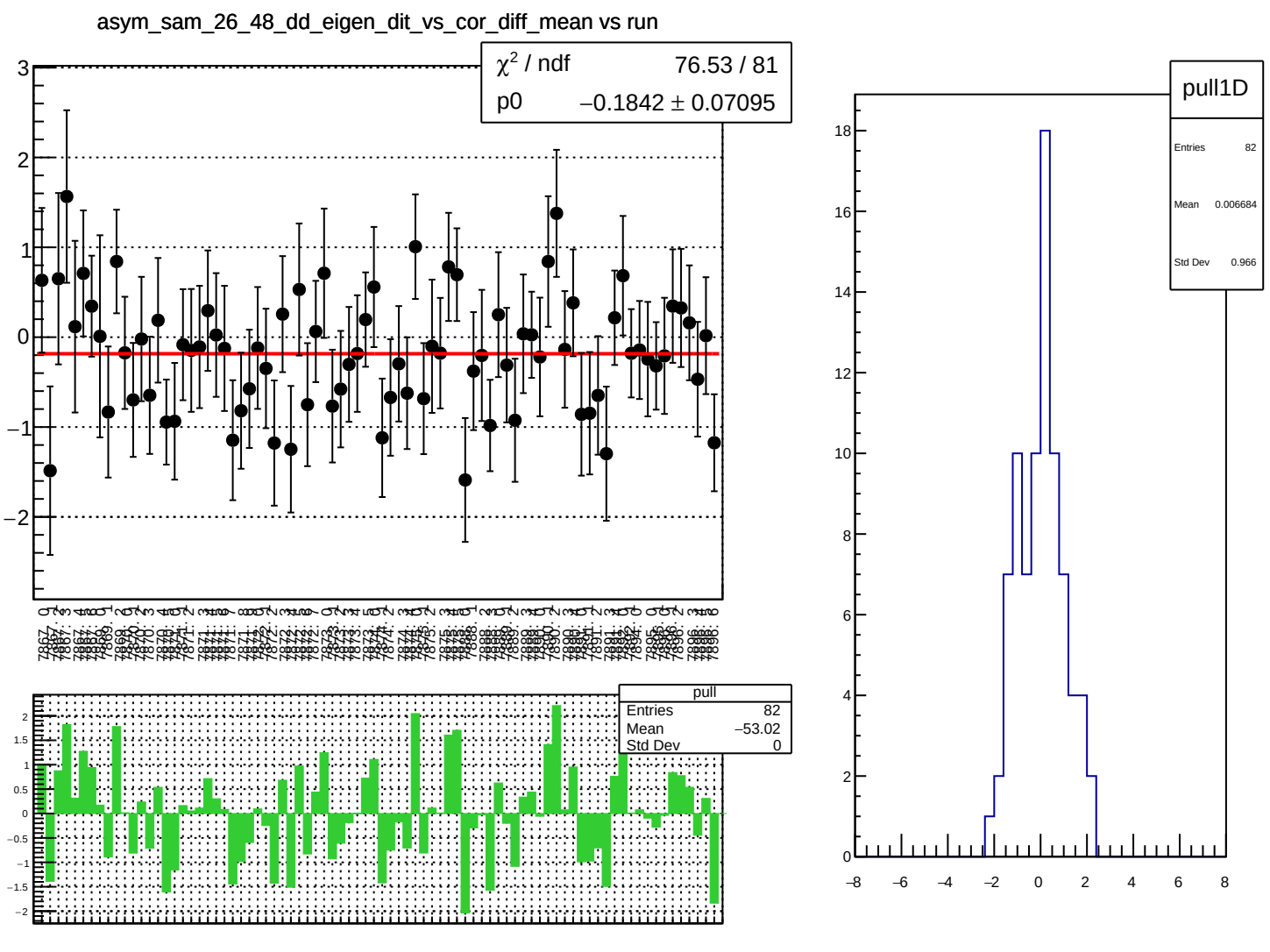

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.53 / 81
p0 −0.1842 ± 0.07095
pull
Entries 82
Mean −52.99
Std Dev 0
pull1D
Entries 82
Mean 0.006687
Std Dev 0.966

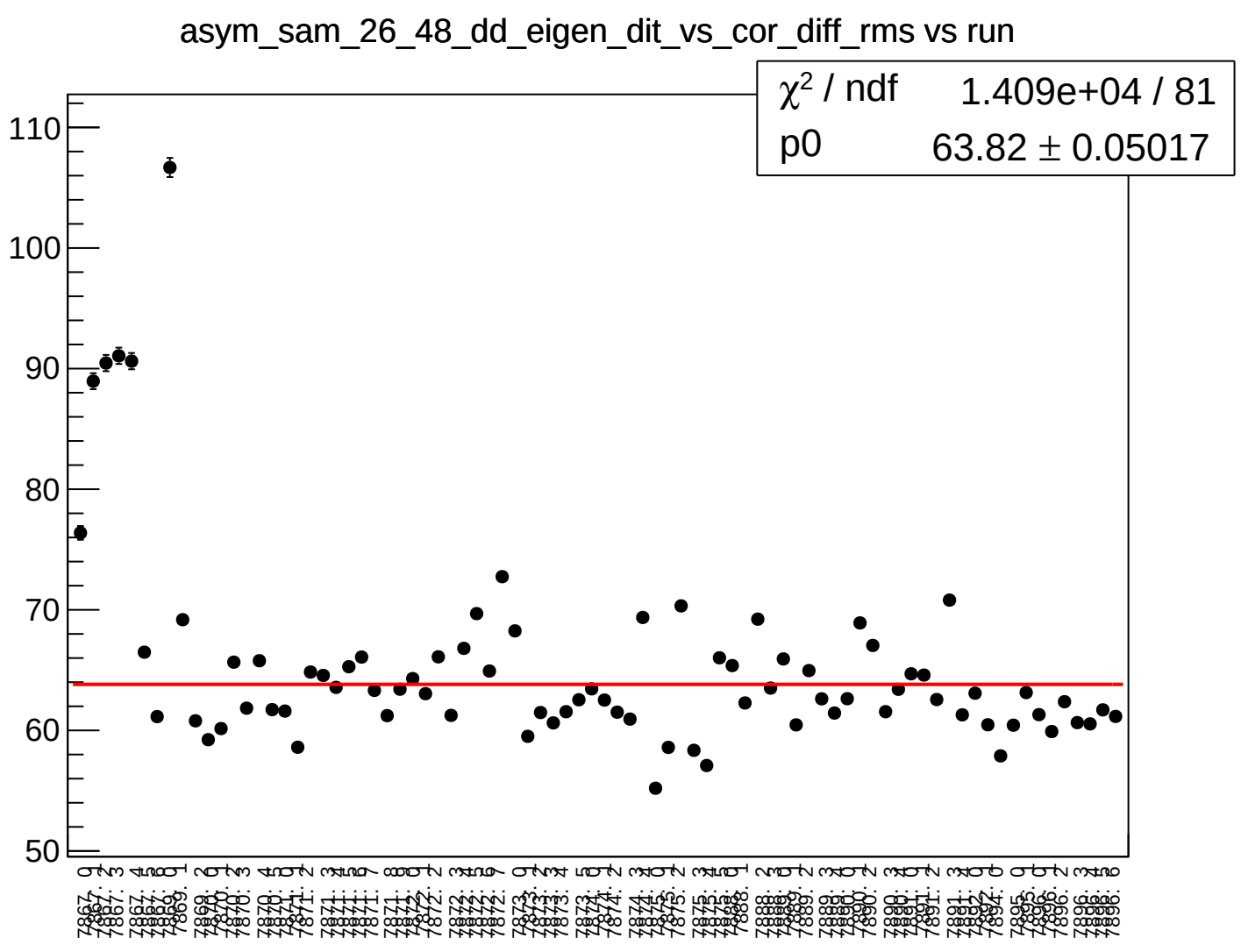

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.409e+04 / 81
p0 63.82 ± 0.05017
110
100
90
80
70
60
50

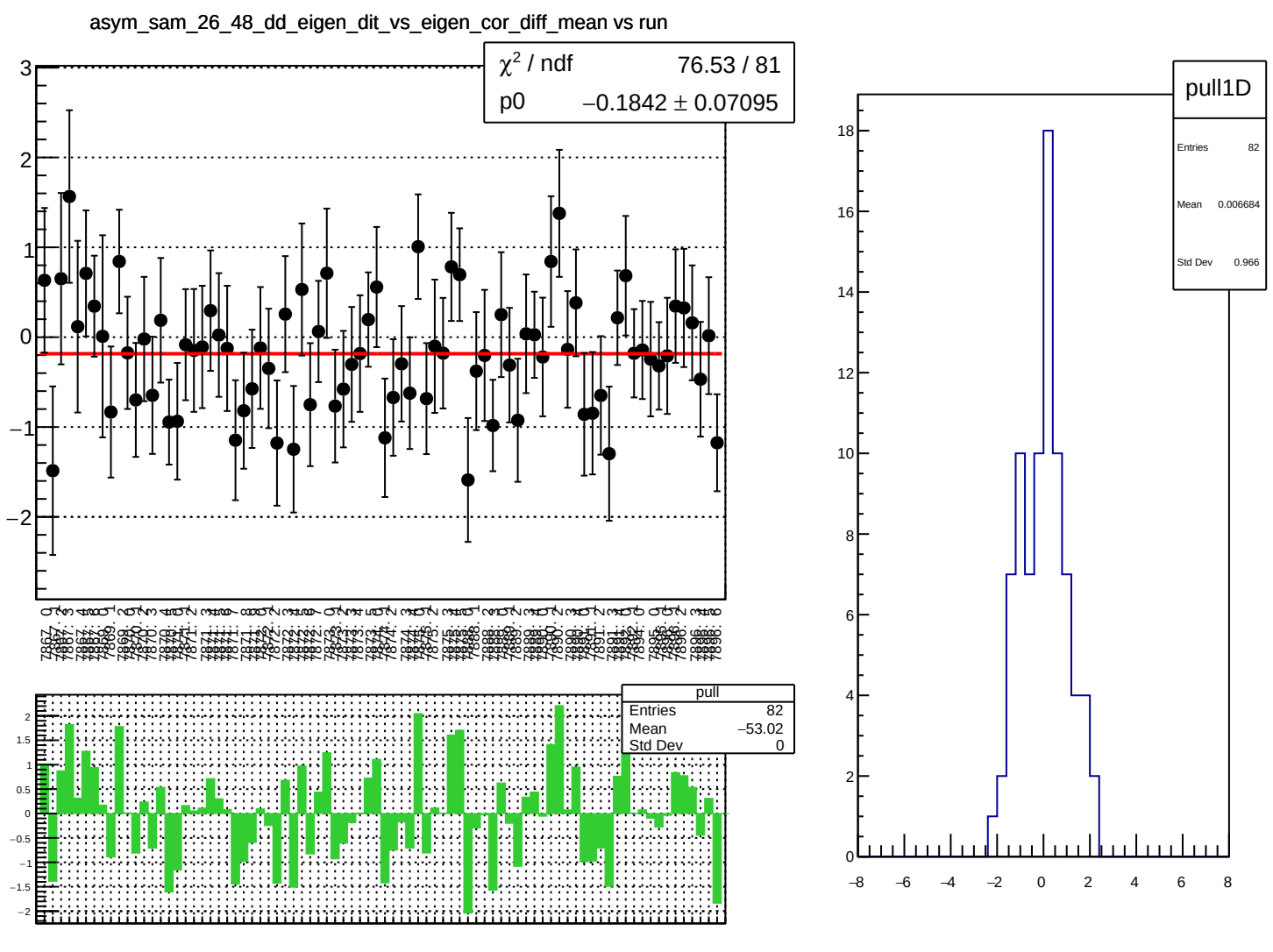

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.25 / 81
p0 −1.442e−08 ± 2.635e−06
pull
Entries 82
Mean −47.55
Std Dev 0

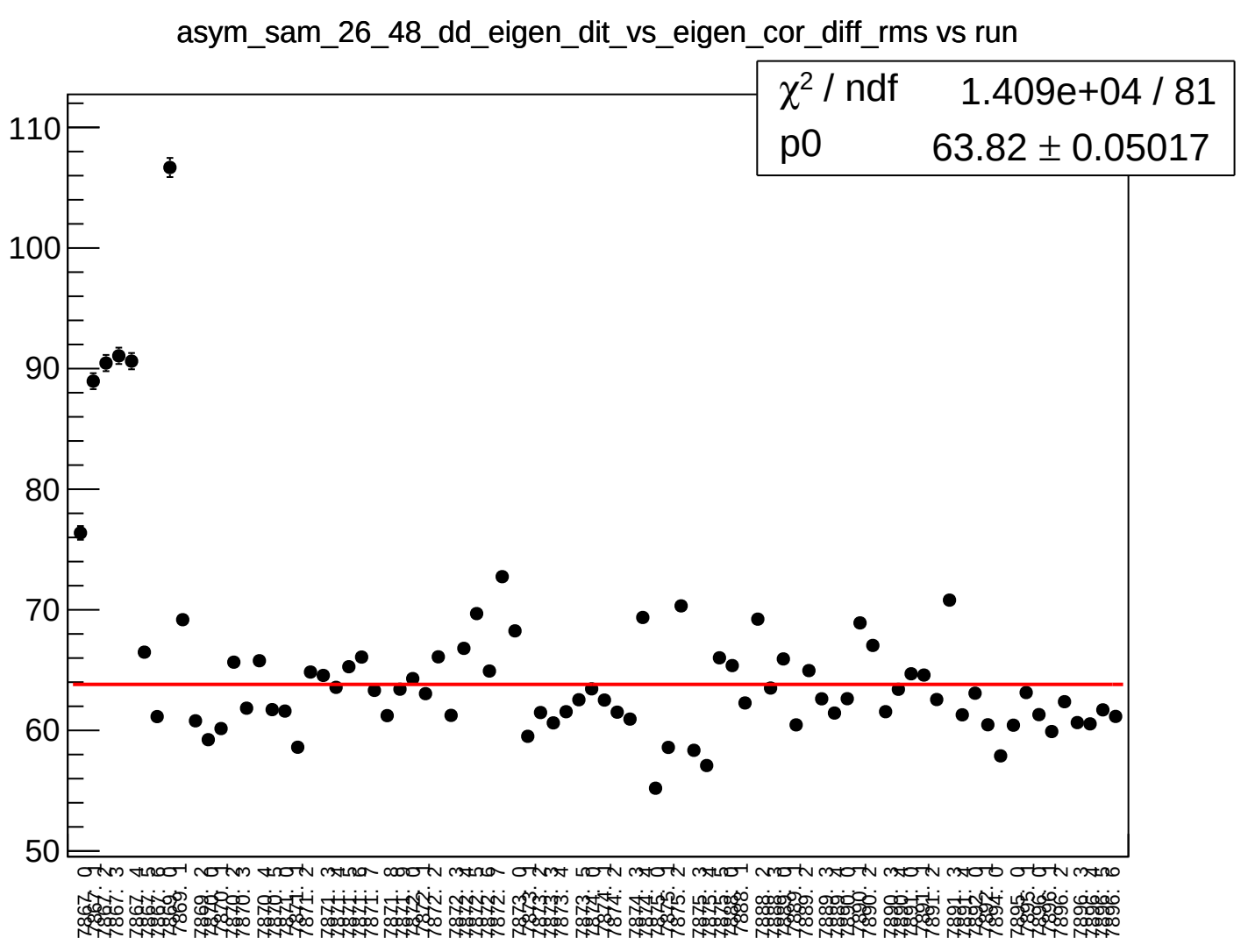

pull1D
Entries 82
Mean −0.01785
Std Dev 0.9578

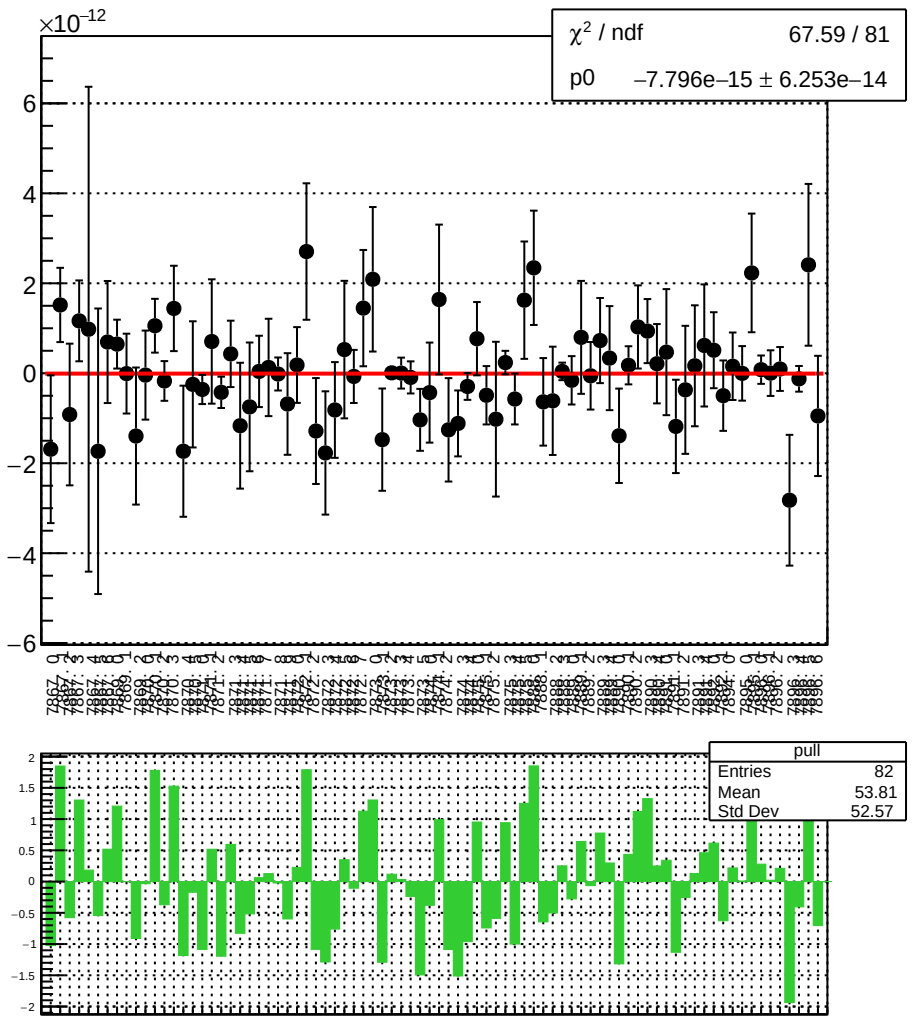

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.39e+05 / 81
p0 0.002199 ± 1.863e−06
0.007
0.006
0.005
0.004
0.003
0.002

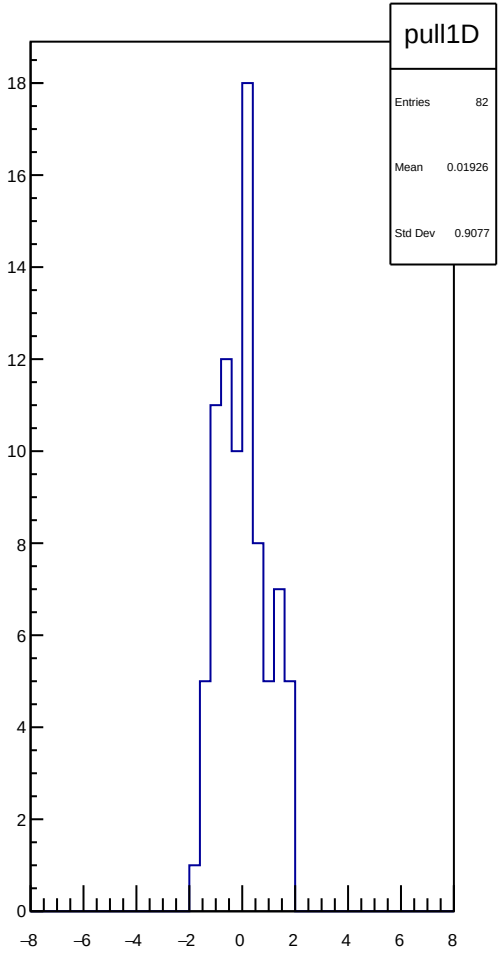

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 81
p0 −0.1842 ± 0.07095
pull
Entries 82
Mean −53.02
Std Dev 0
pull1D
Entries 82
Mean 0.006684
Std Dev 0.966

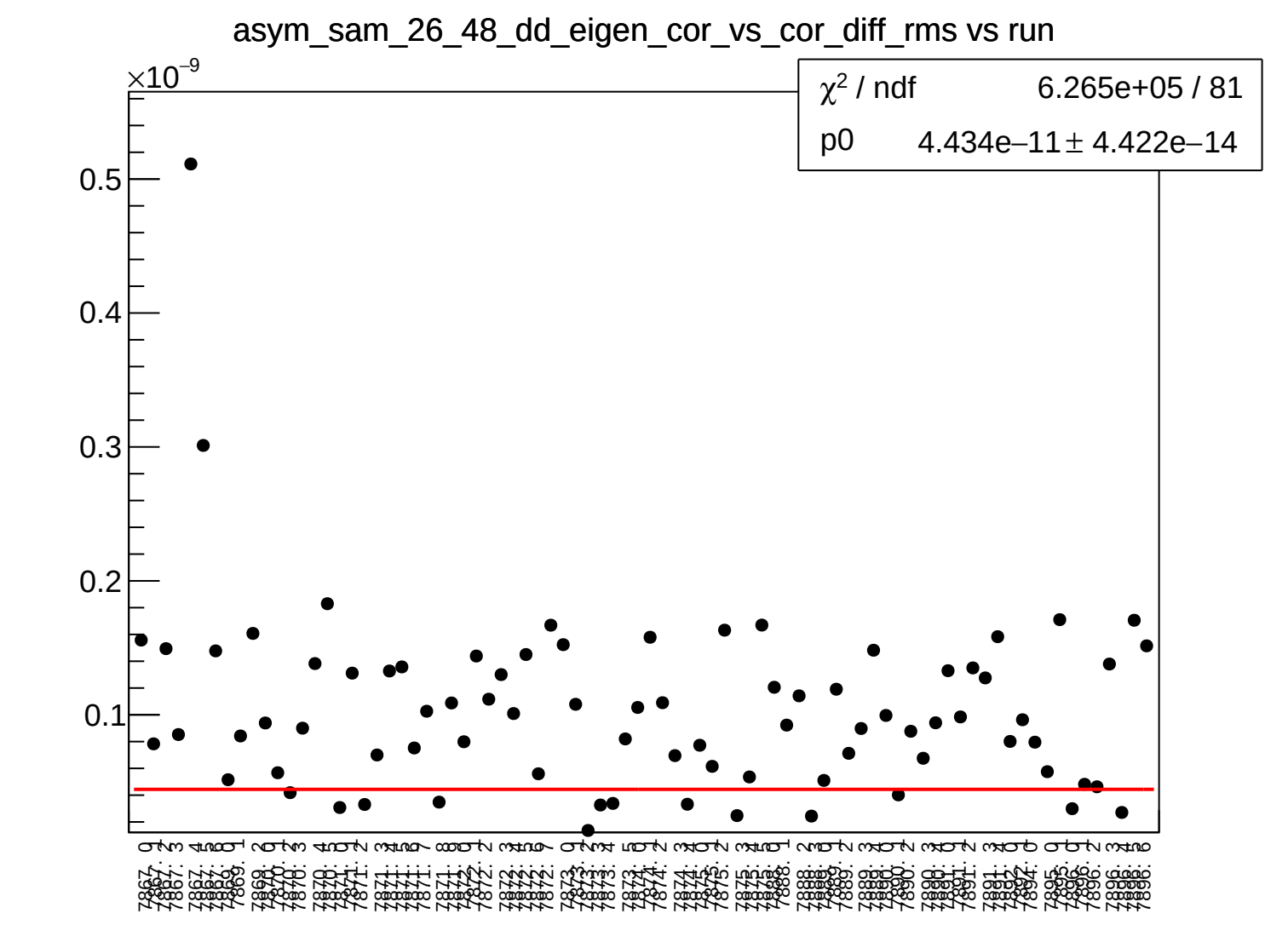

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.409e+04 / 81
p0 63.82 ± 0.05017
110
100
90
80
70
60
50

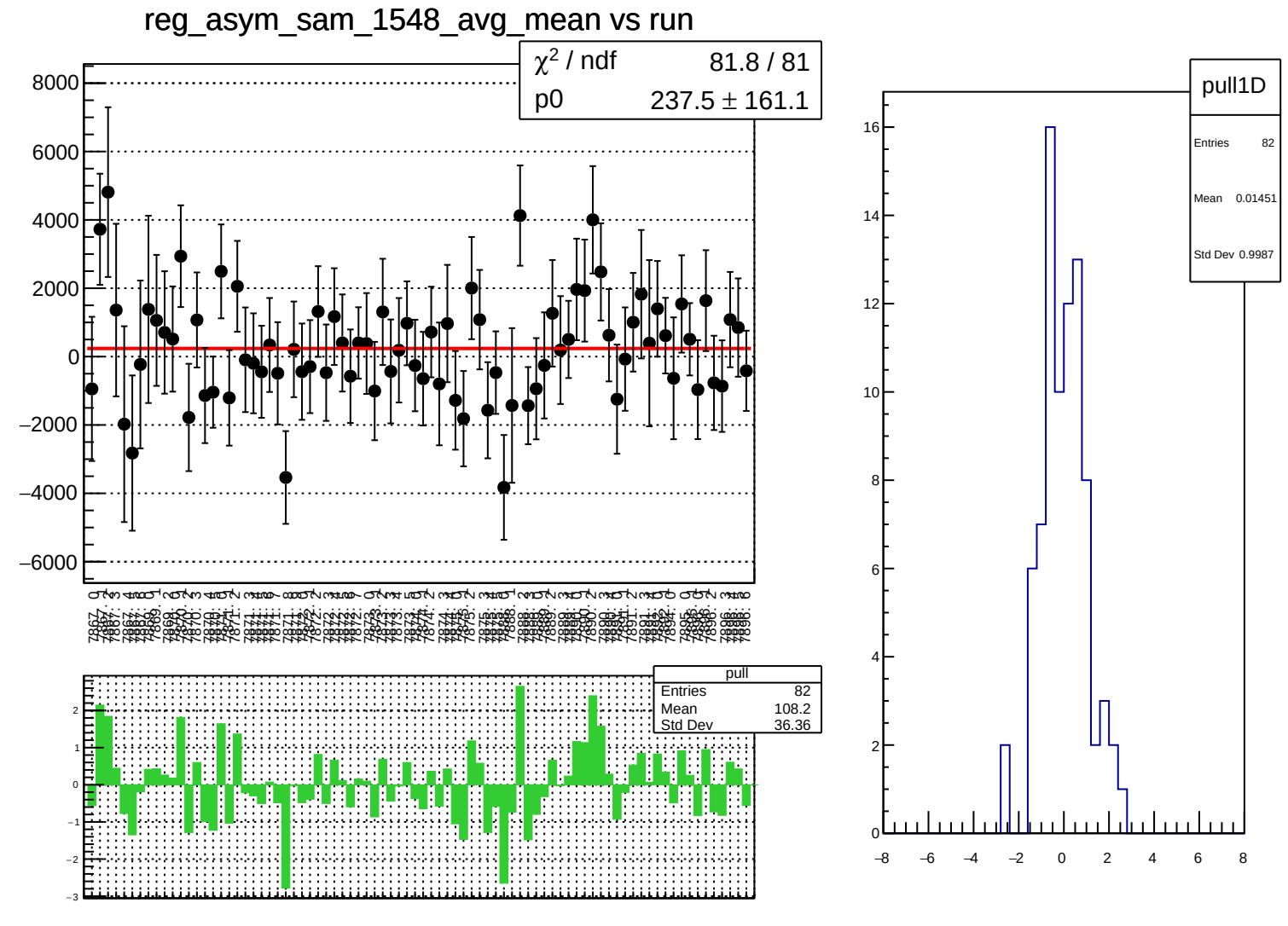

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.53 / 81
p0 −0.1842 ± 0.07095
pull
Entries 82
Mean −53.02
Std Dev 0
pull1D
Entries 82
Mean 0.006684
Std Dev 0.966

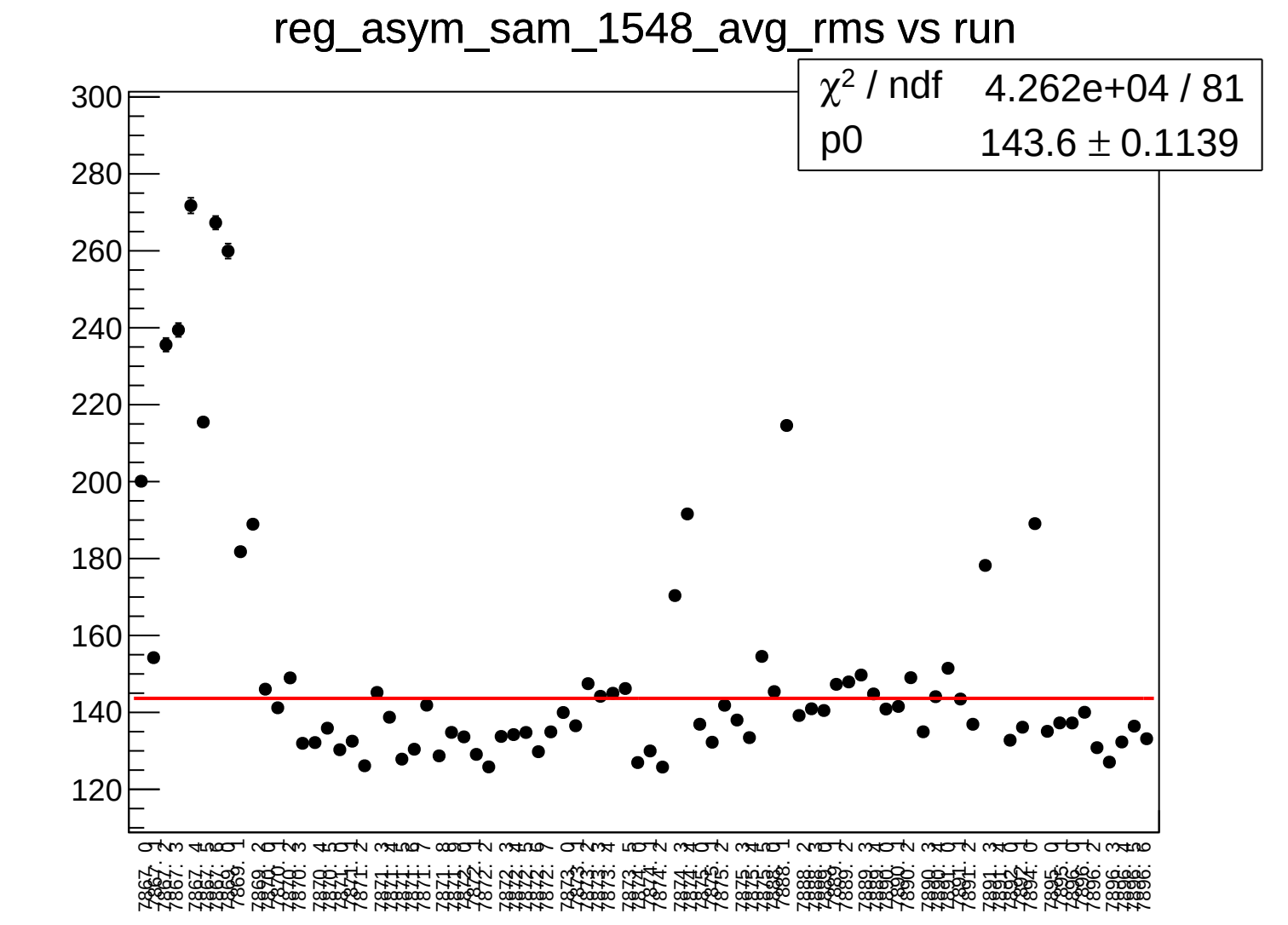

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.409e+04 / 81
p0 63.82 ± 0.05017
110
100
90
80
70
60
50

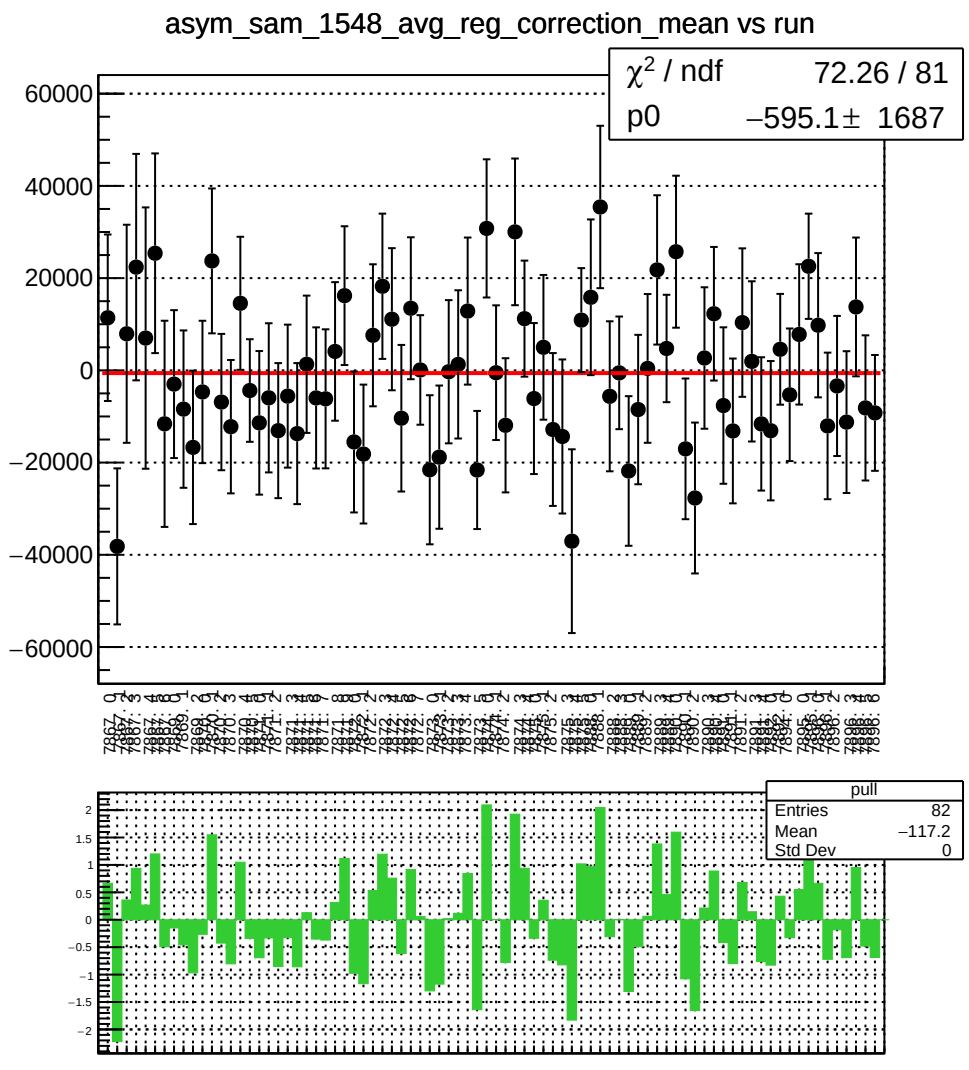

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.59 / 81
p0 −7.796e−15 ± 6.253e−14
pull
Entries 82
Mean 53.81
Std Dev 52.57

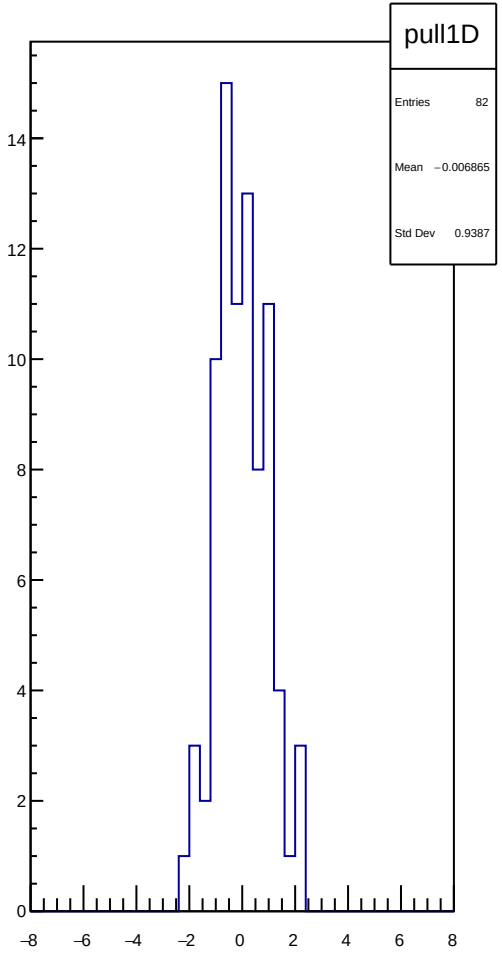

pull1D
Entries 82
Mean 0.01926
Std Dev 0.9077

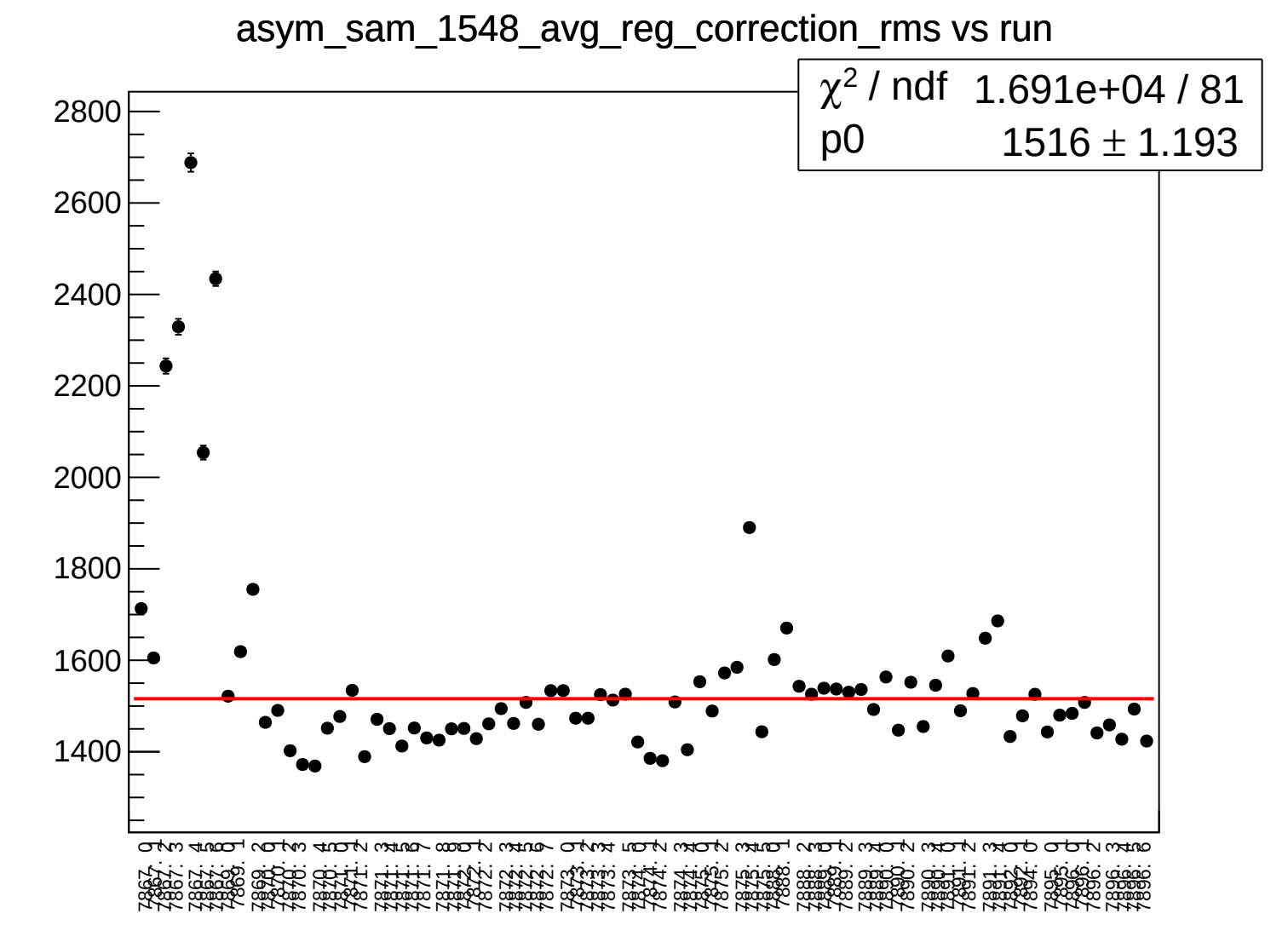

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.265e+05 / 81
p0 4.434e−11 ± 4.422e−14
0.5
0.4
0.3
0.2
0.1

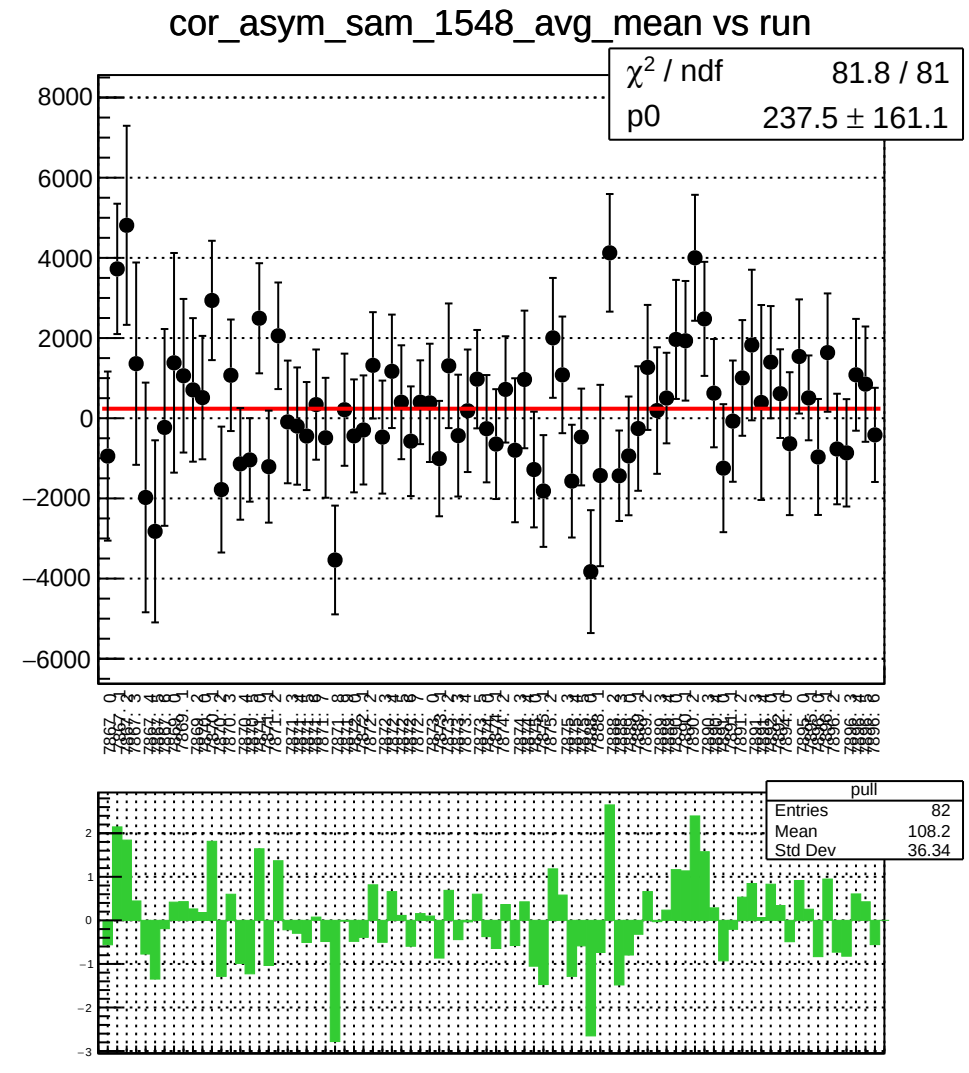

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 81.8 / 81
p0 237.5 ± 161.1
pull
Entries 82
Mean 108.2
Std Dev 36.36
pull1D
Entries 82
Mean 0.01451
Std Dev 0.9987

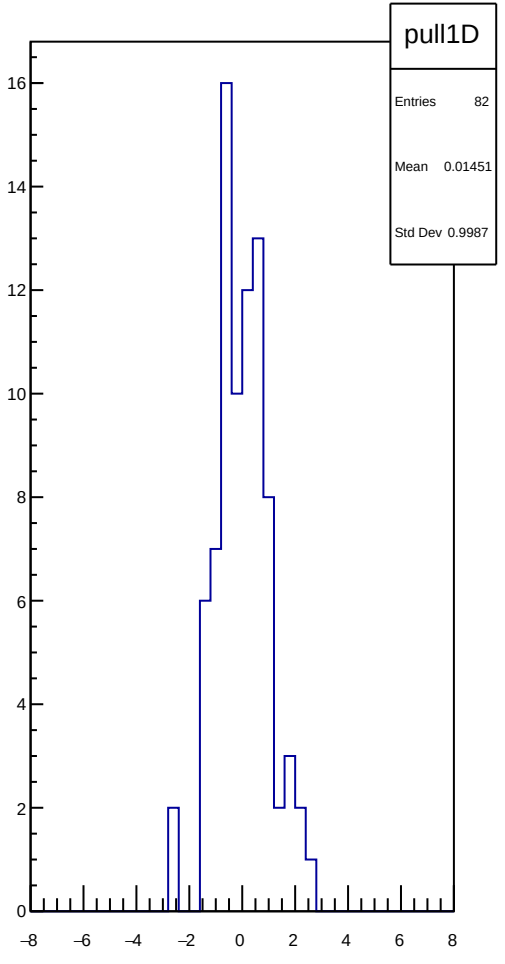

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 4.262e+04 / 81
p0 143.6 ± 0.1139
300
280
260
240
220
200
180
160
140
120

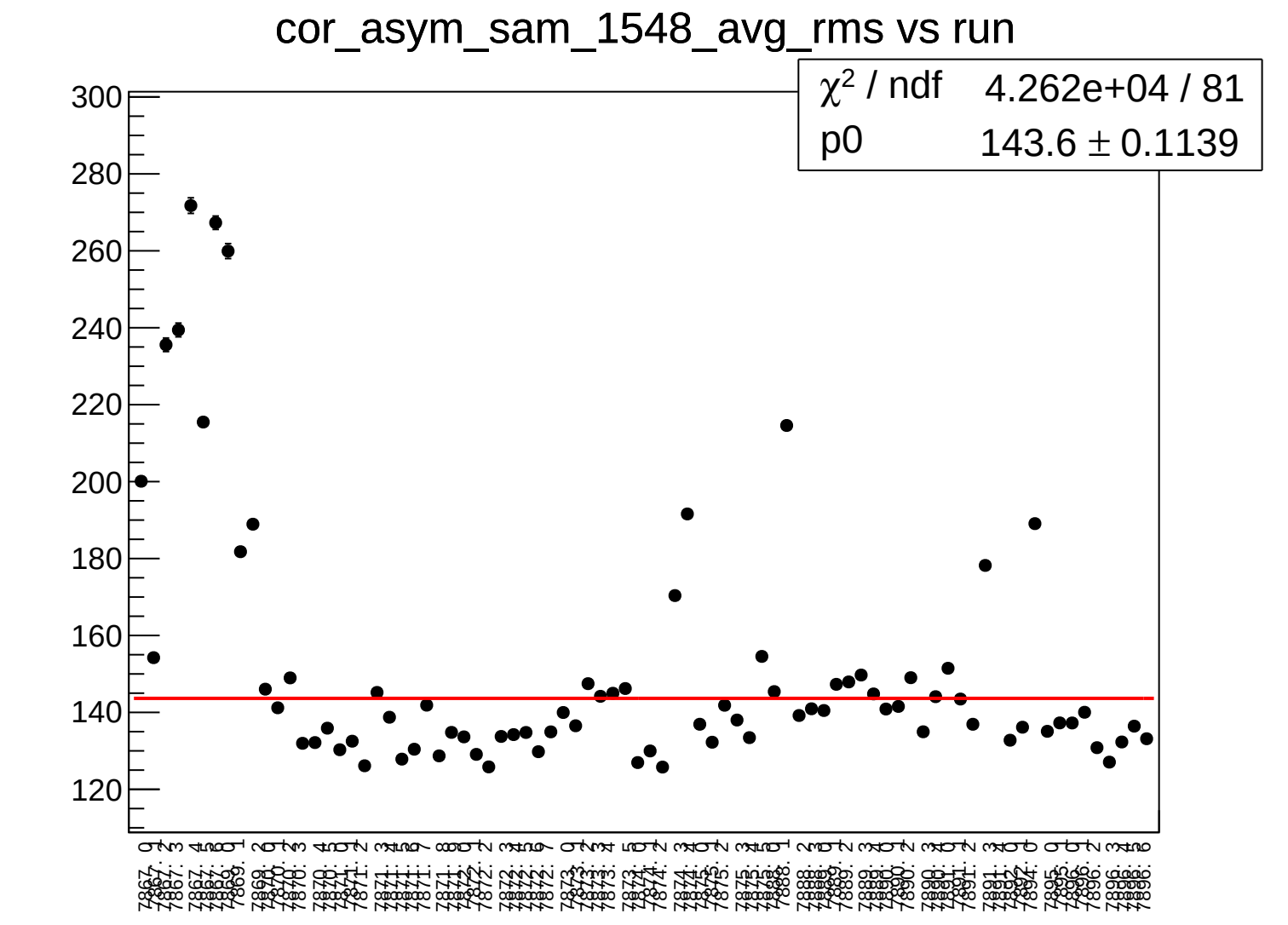

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 72.26 / 81
p0 −595.1± 1687
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −117.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

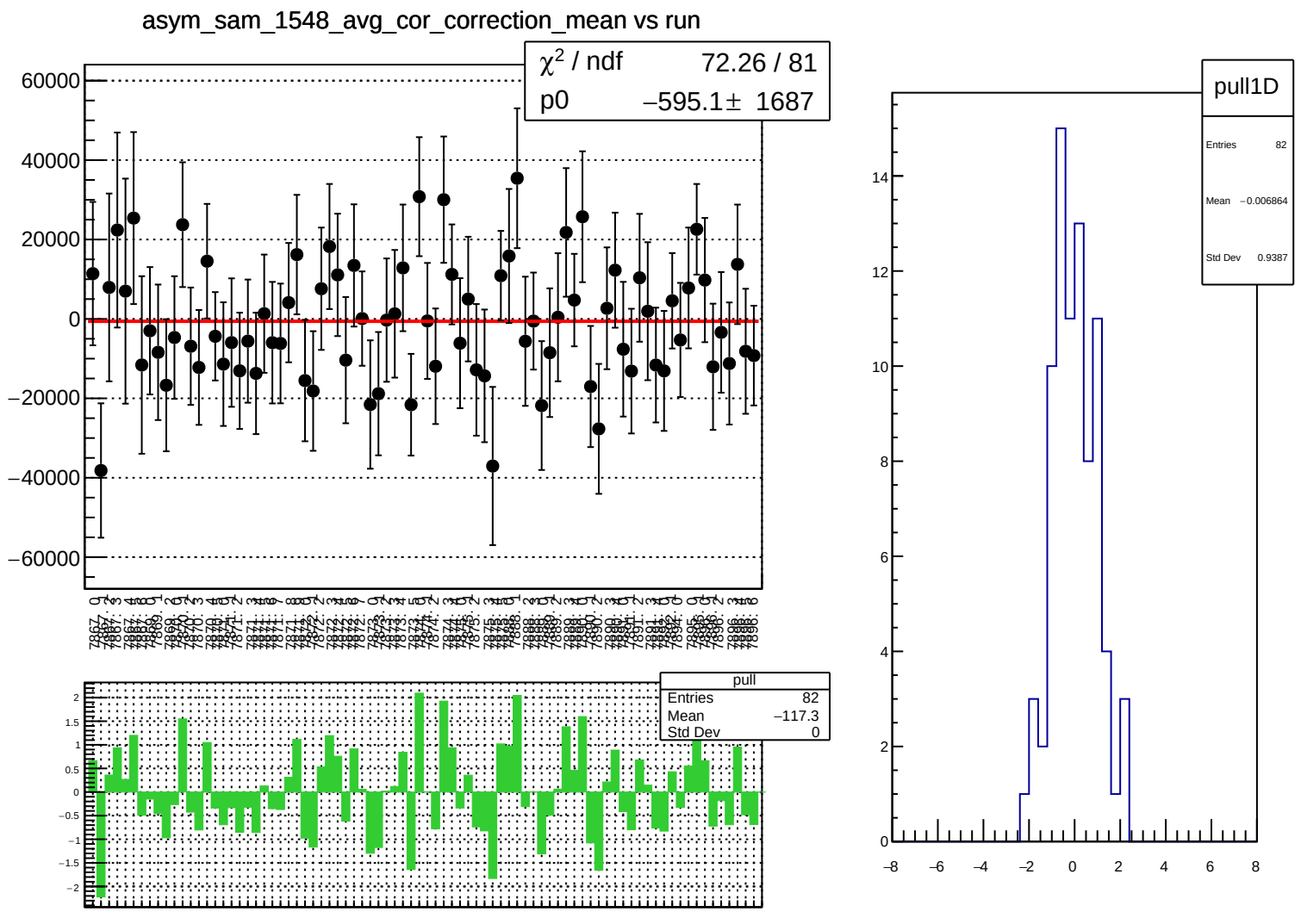

pull1D
Entries 82
Mean −0.006865
Std Dev 0.9387
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

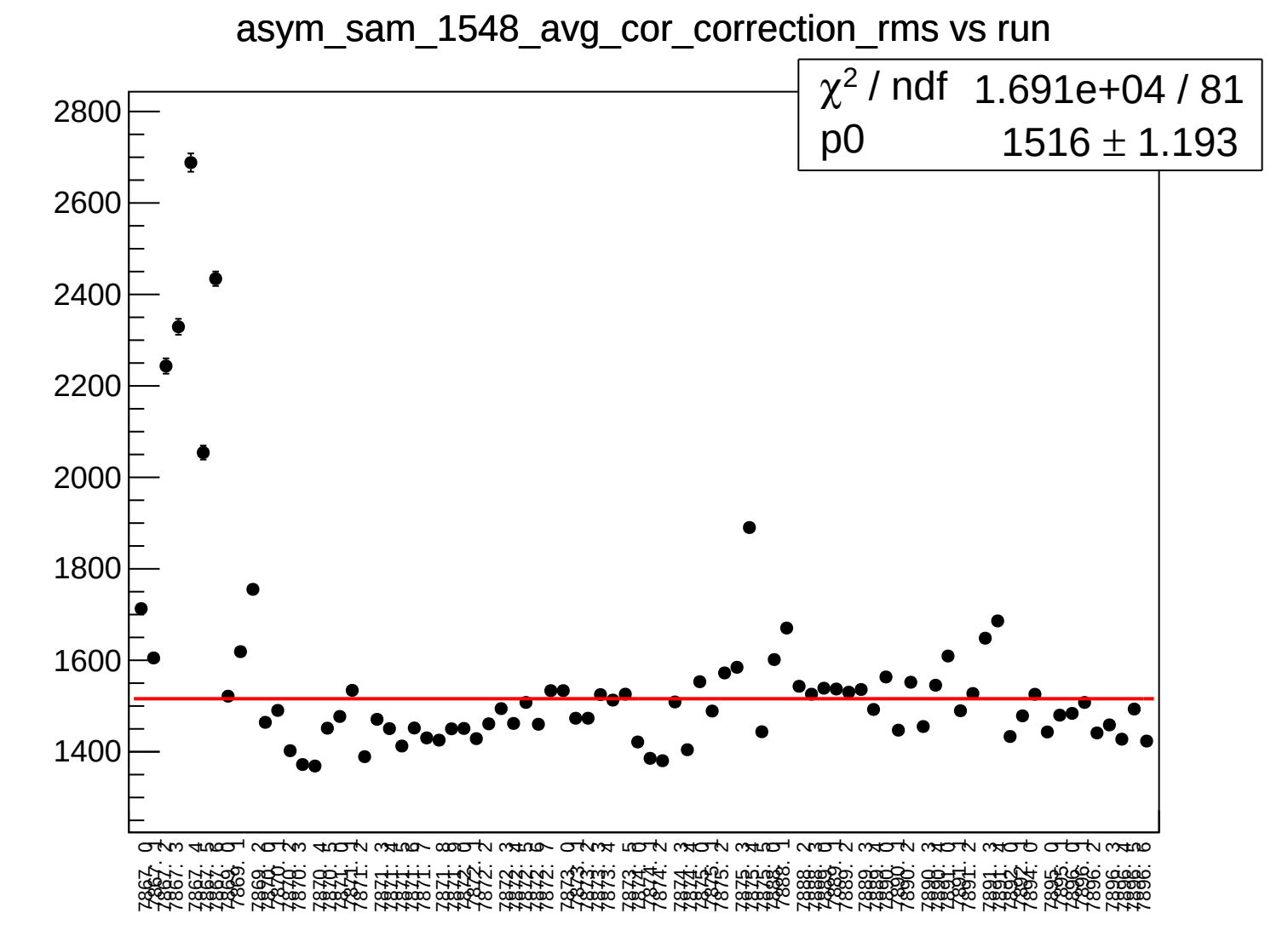

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.691e+04 / 81
p0 1516 ± 1.193
2800
2600
2400
2200
2000
1800
1600
1400

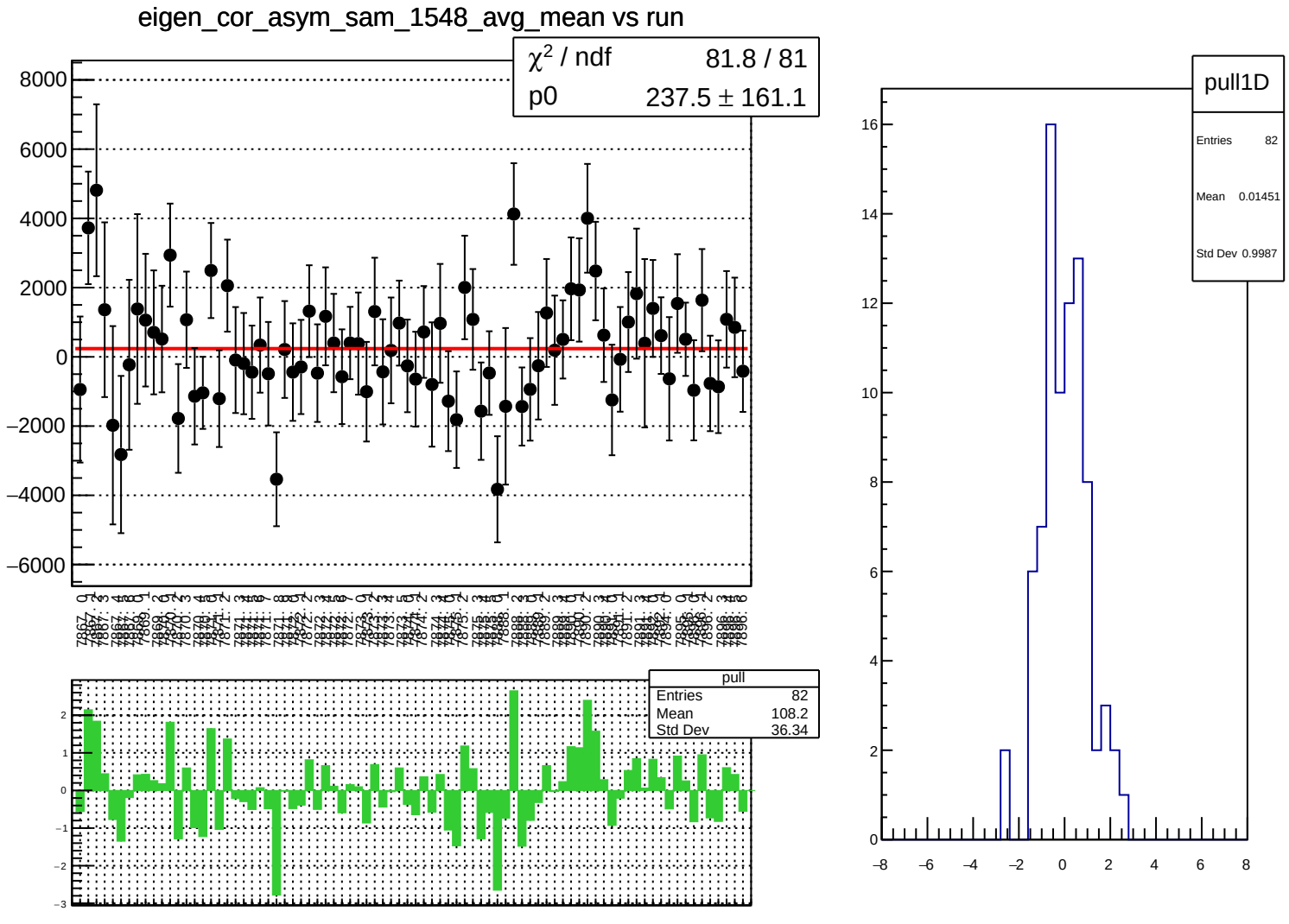

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 81.8 / 81
p0 237.5 ± 161.1
pull
Entries 82
Mean 108.2
Std Dev 36.34

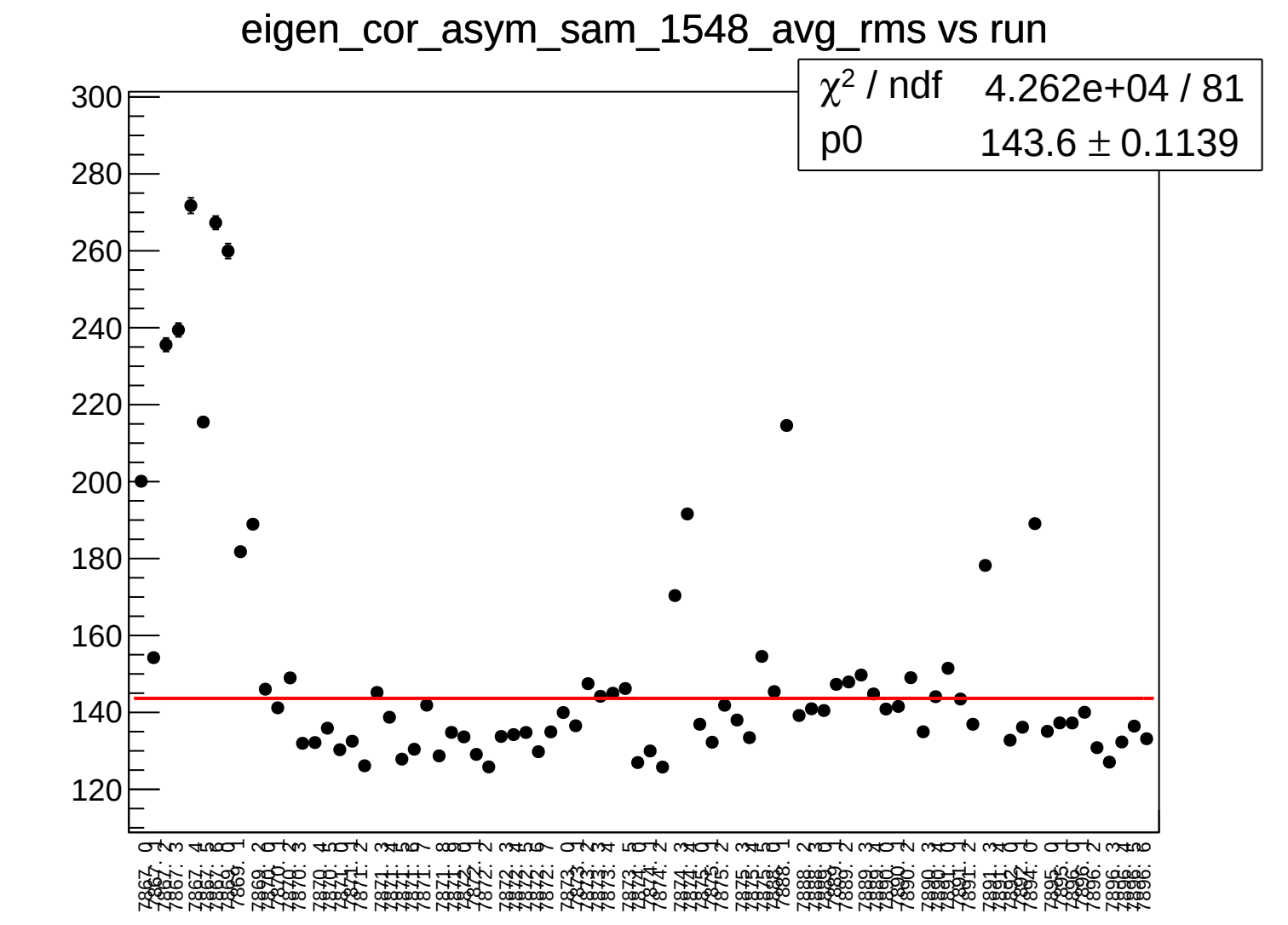

pull1D
Entries 82
Mean 0.01451
Std Dev 0.9987

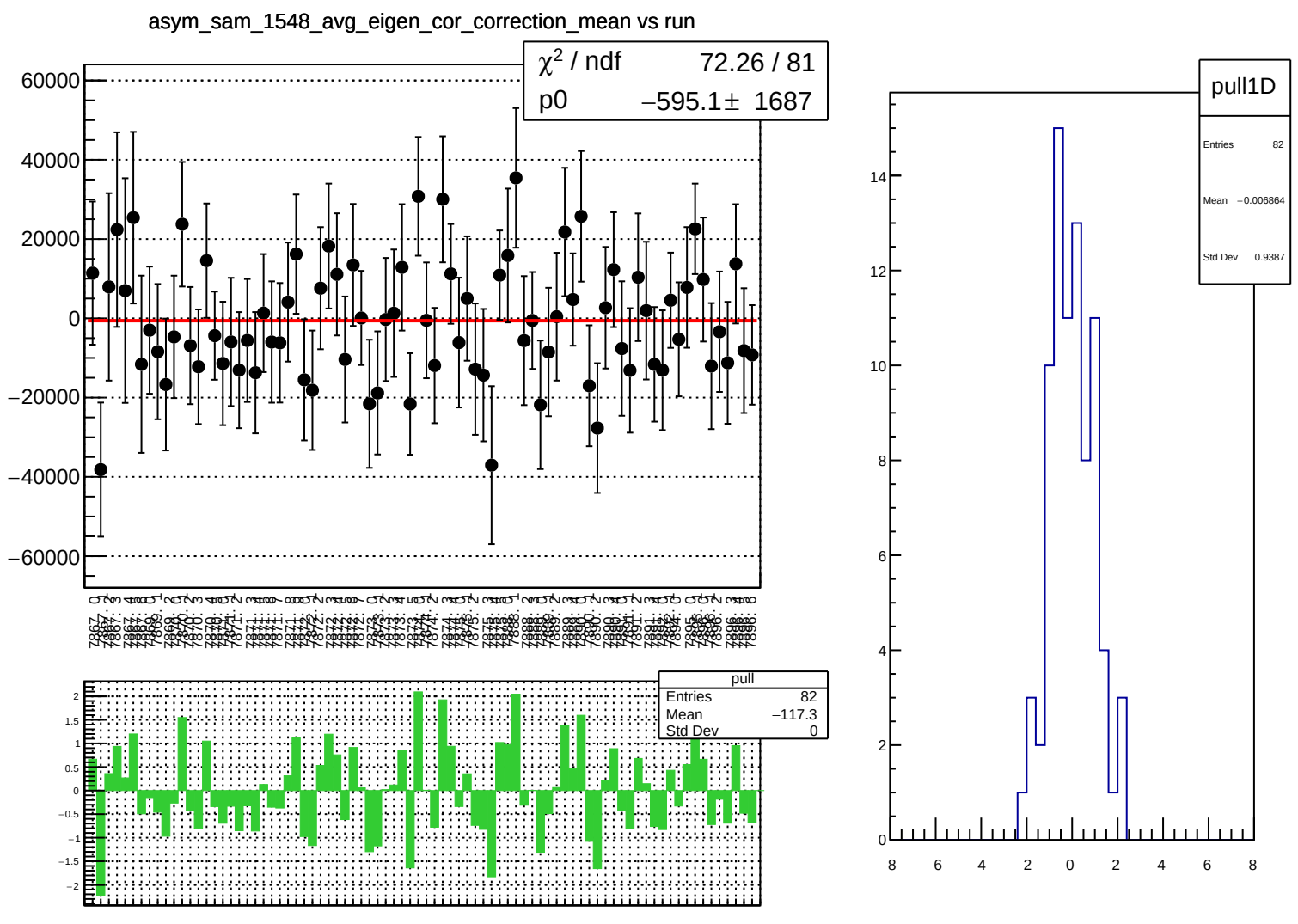

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4.262e+04 / 81
p0 143.6 ± 0.1139
300
280
260
240
220
200
180
160
140
120

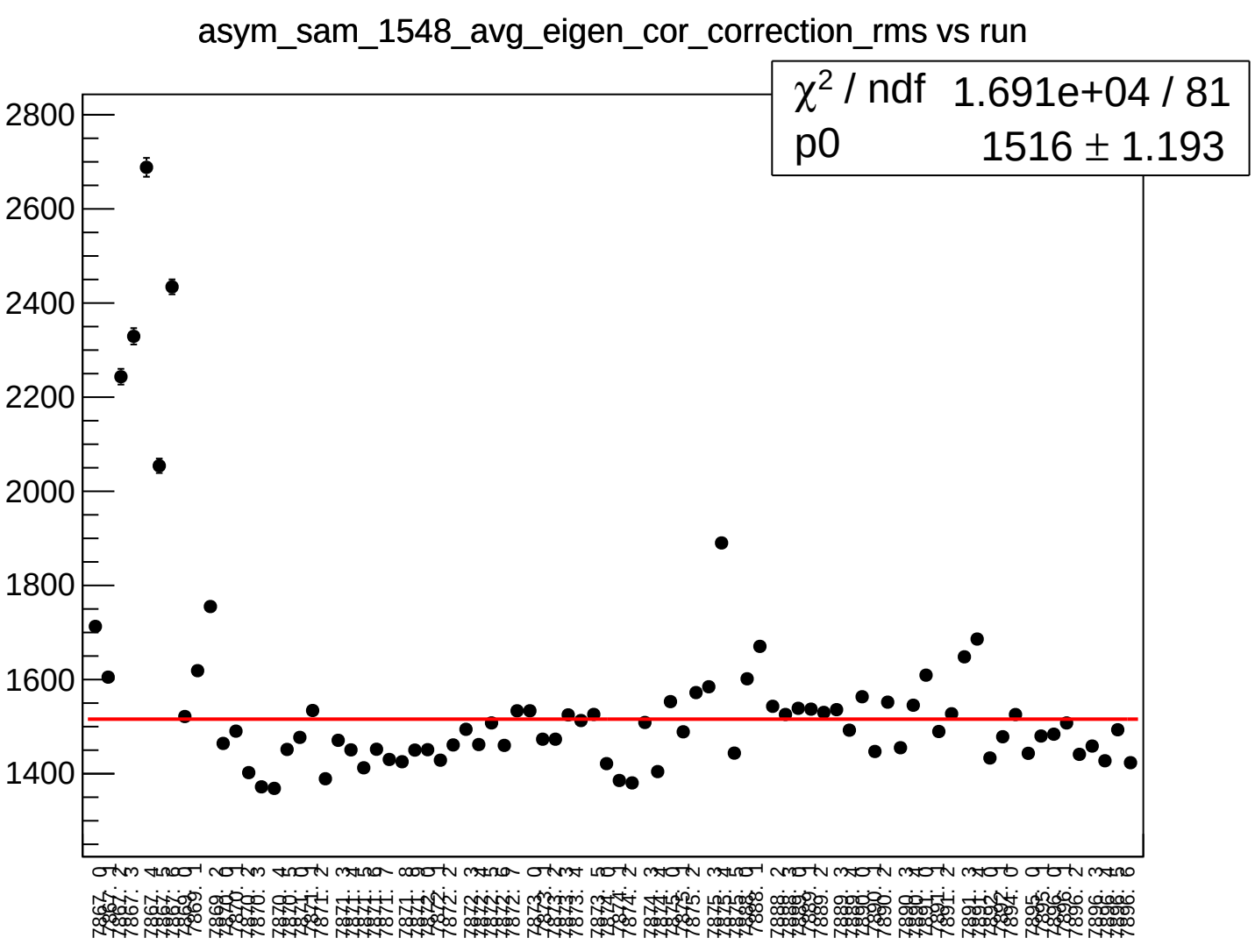

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 72.26 / 81
p0 −595.1± 1687
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −117.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.006864
Std Dev 0.9387
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

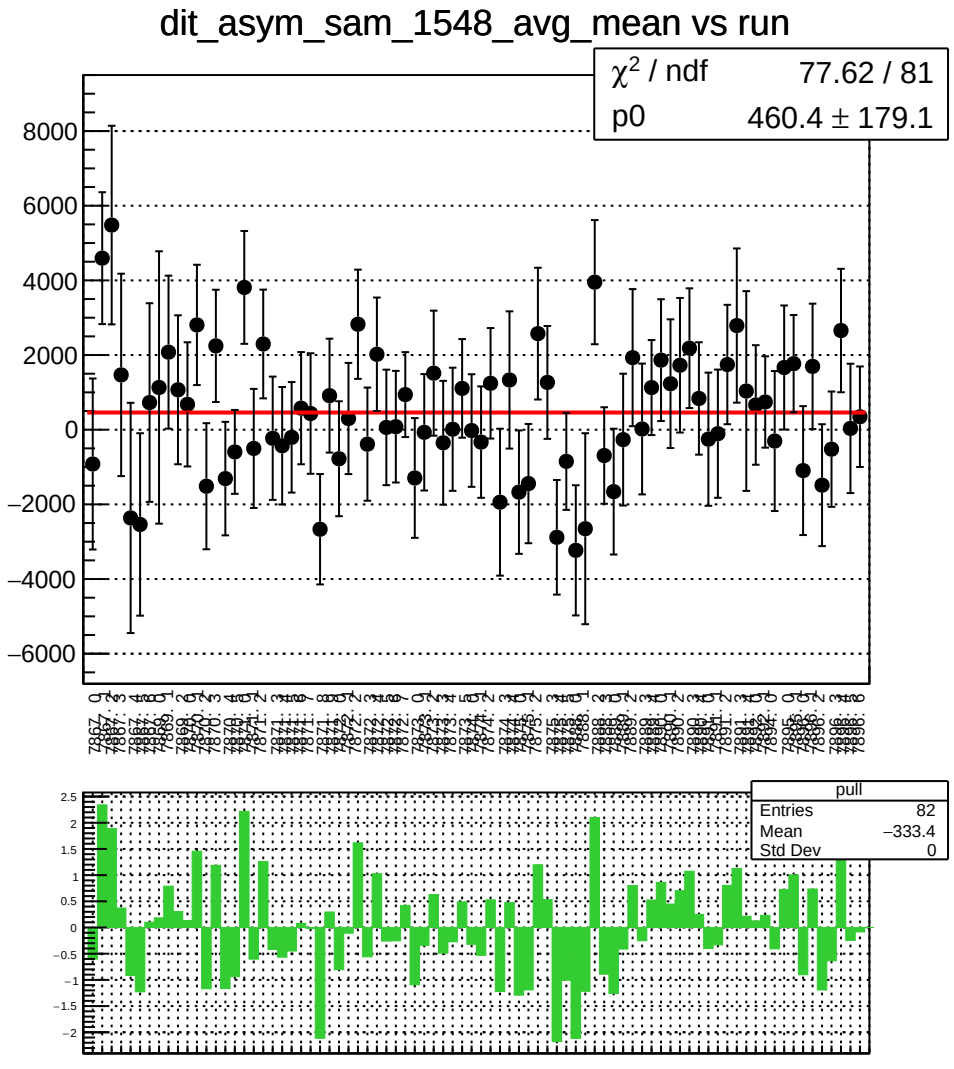

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 81
p0 1516 ± 1.193
2800
2600
2400
2200
2000
1800
1600
1400

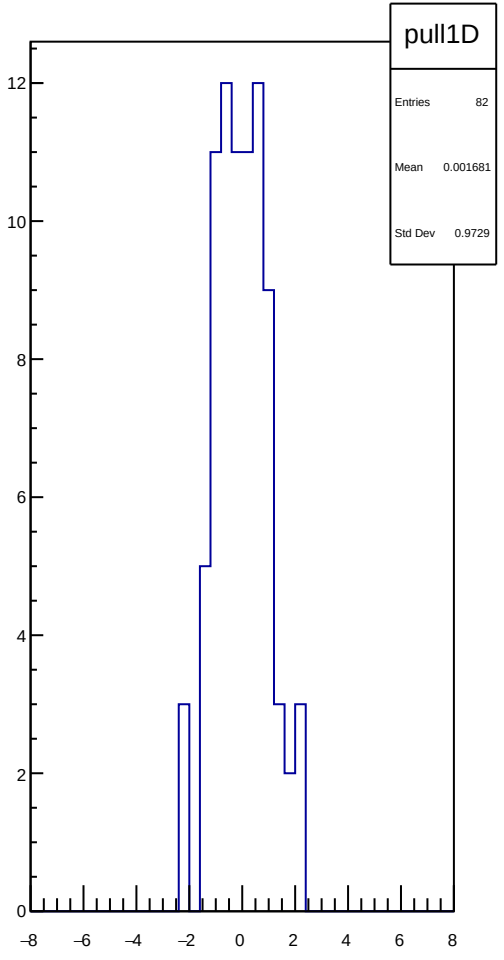

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 81.8 / 81
p0 237.5 ± 161.1
pull
Entries 82
Mean 108.2
Std Dev 36.34
pull1D
Entries 82
Mean 0.01451
Std Dev 0.9987

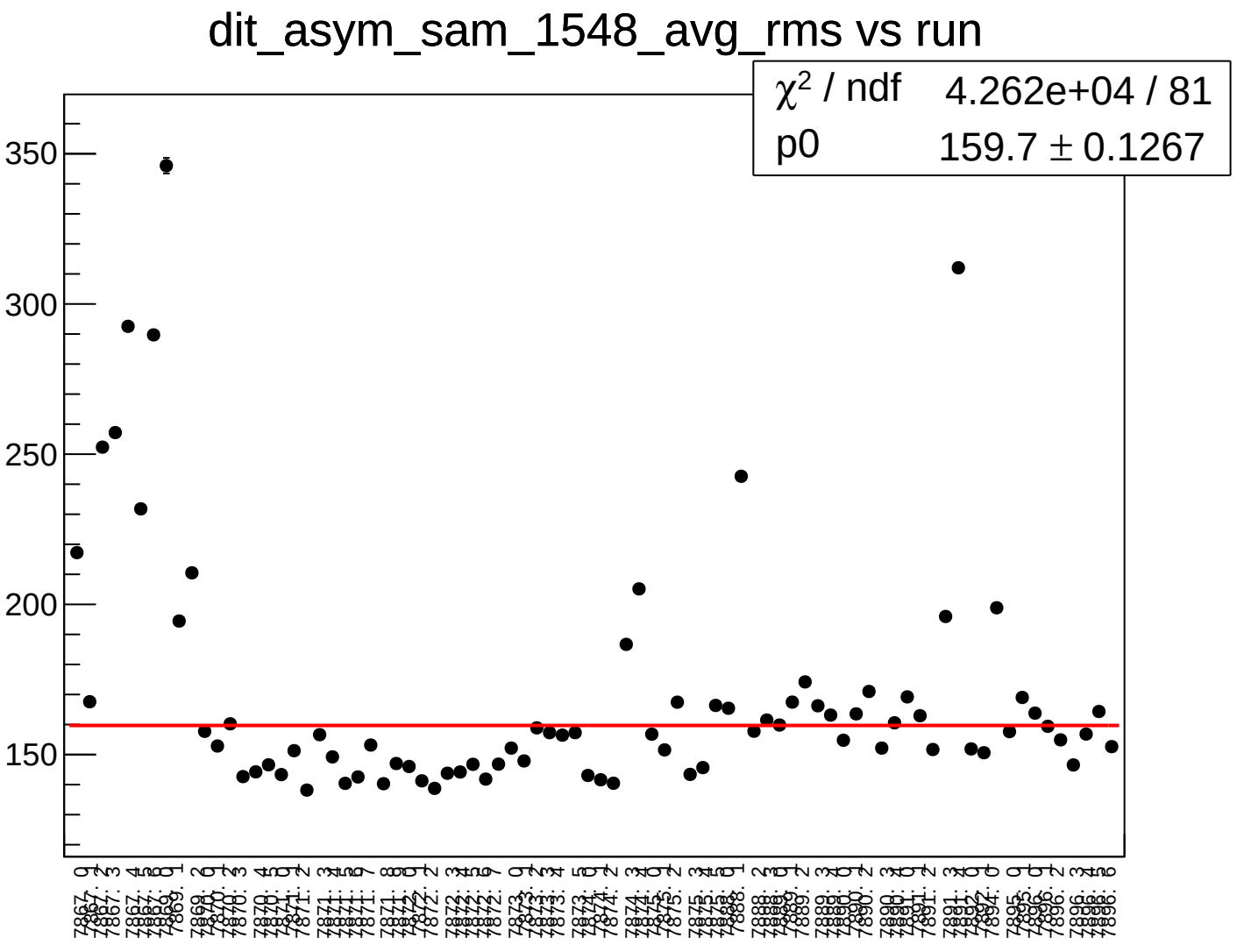

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4.262e+04 / 81
p0 143.6 ± 0.1139
300
280
260
240
220
200
180
160
140
120

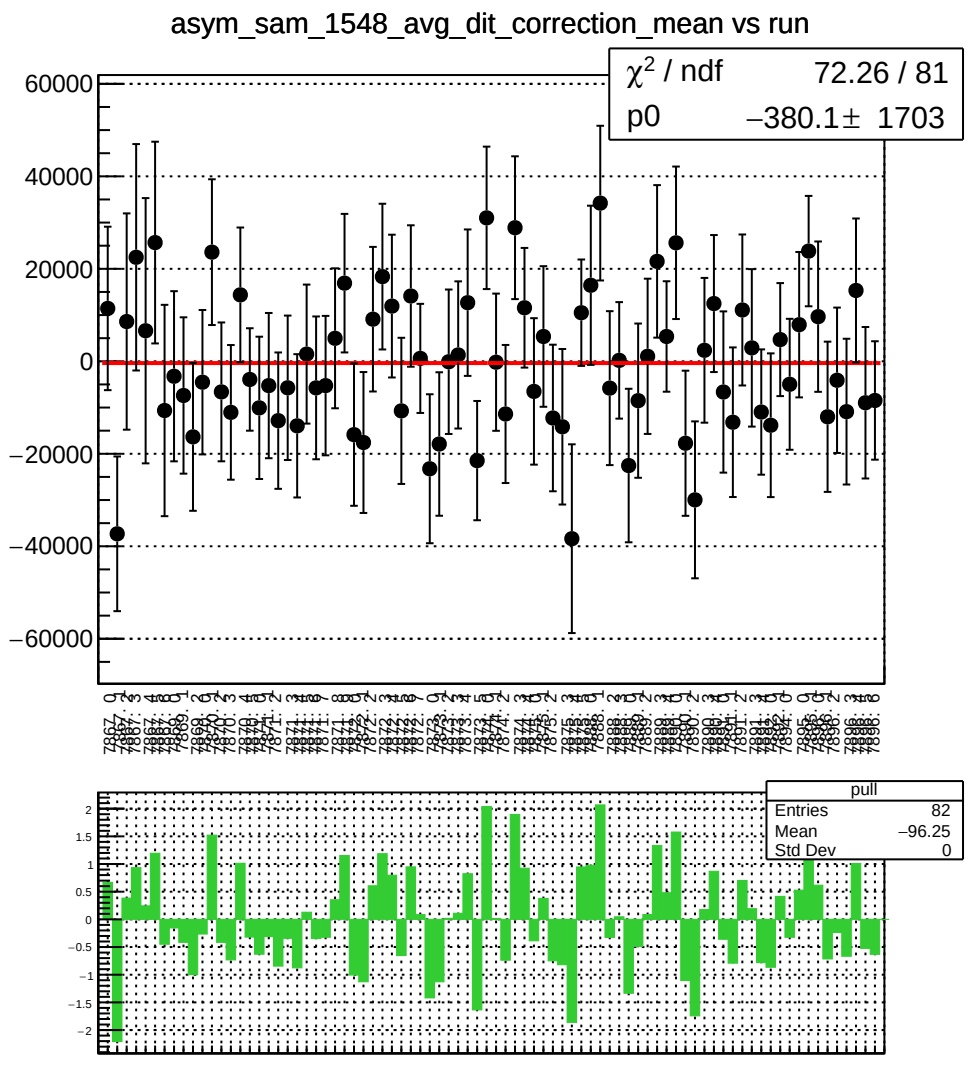

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.26 / 81
p0 −595.1± 1687
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −117.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.006864
Std Dev 0.9387
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

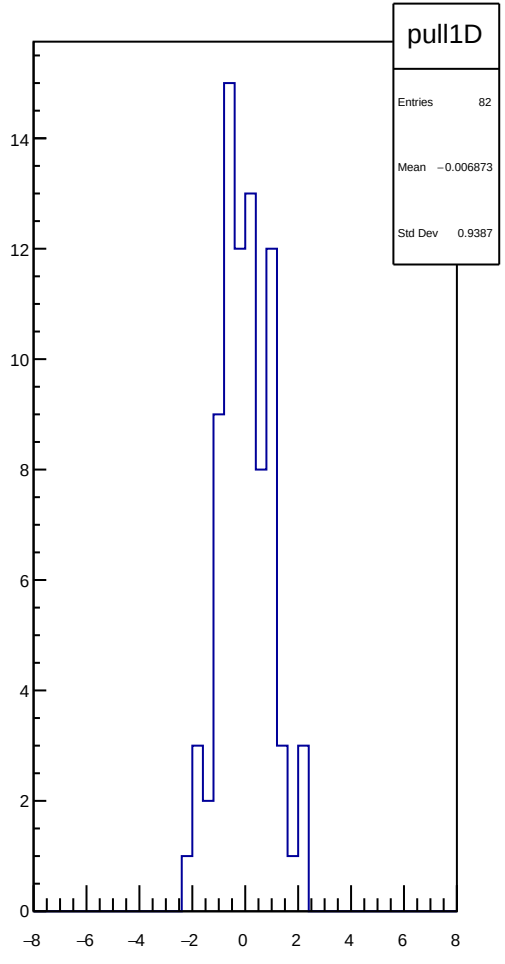

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 81
p0 1516 ± 1.193
2800
2600
2400
2200
2000
1800
1600
1400

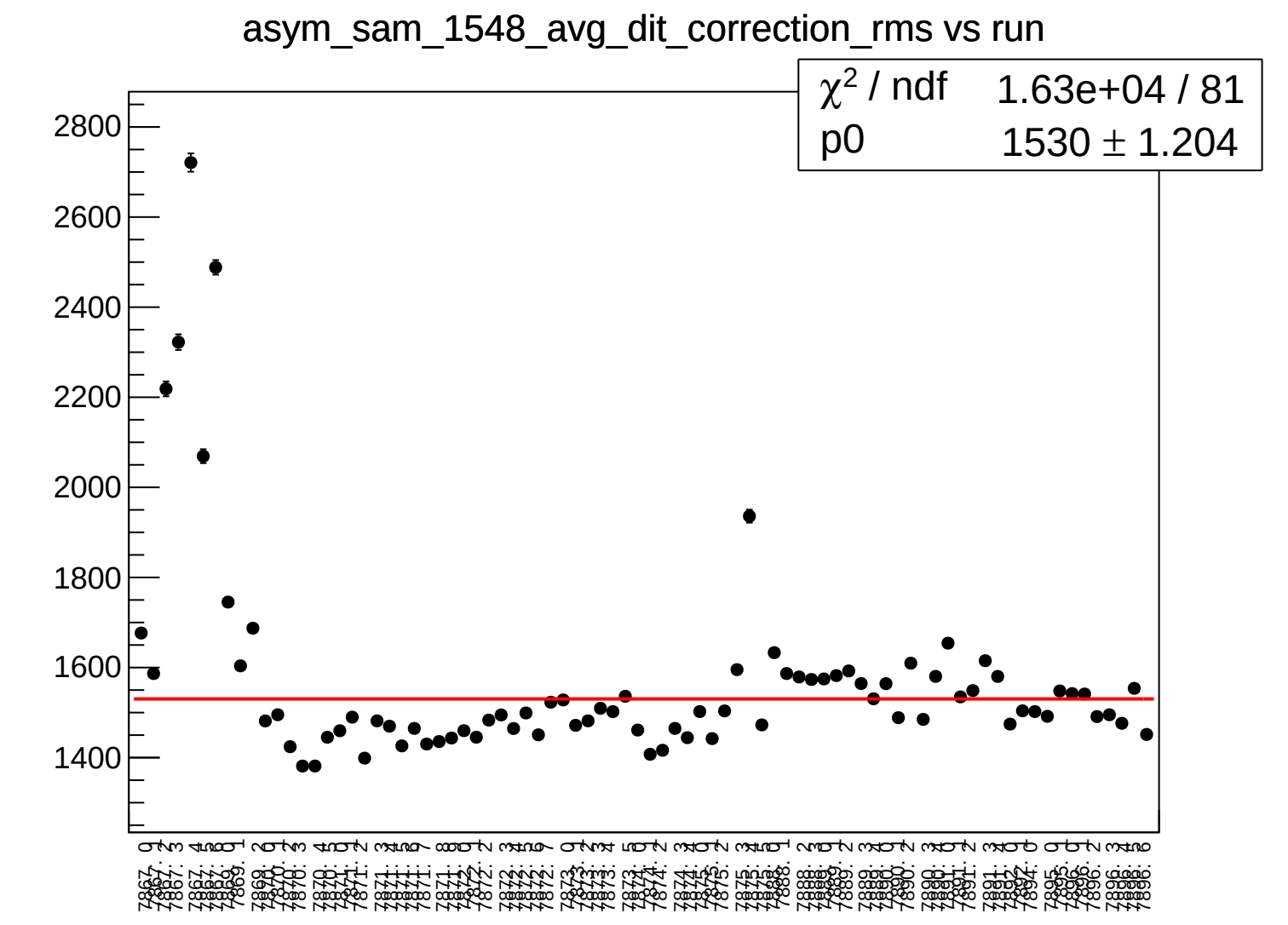

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.62 / 81
p0 460.4 ± 179.1
pull
Entries 82
Mean −333.4
Std Dev 0

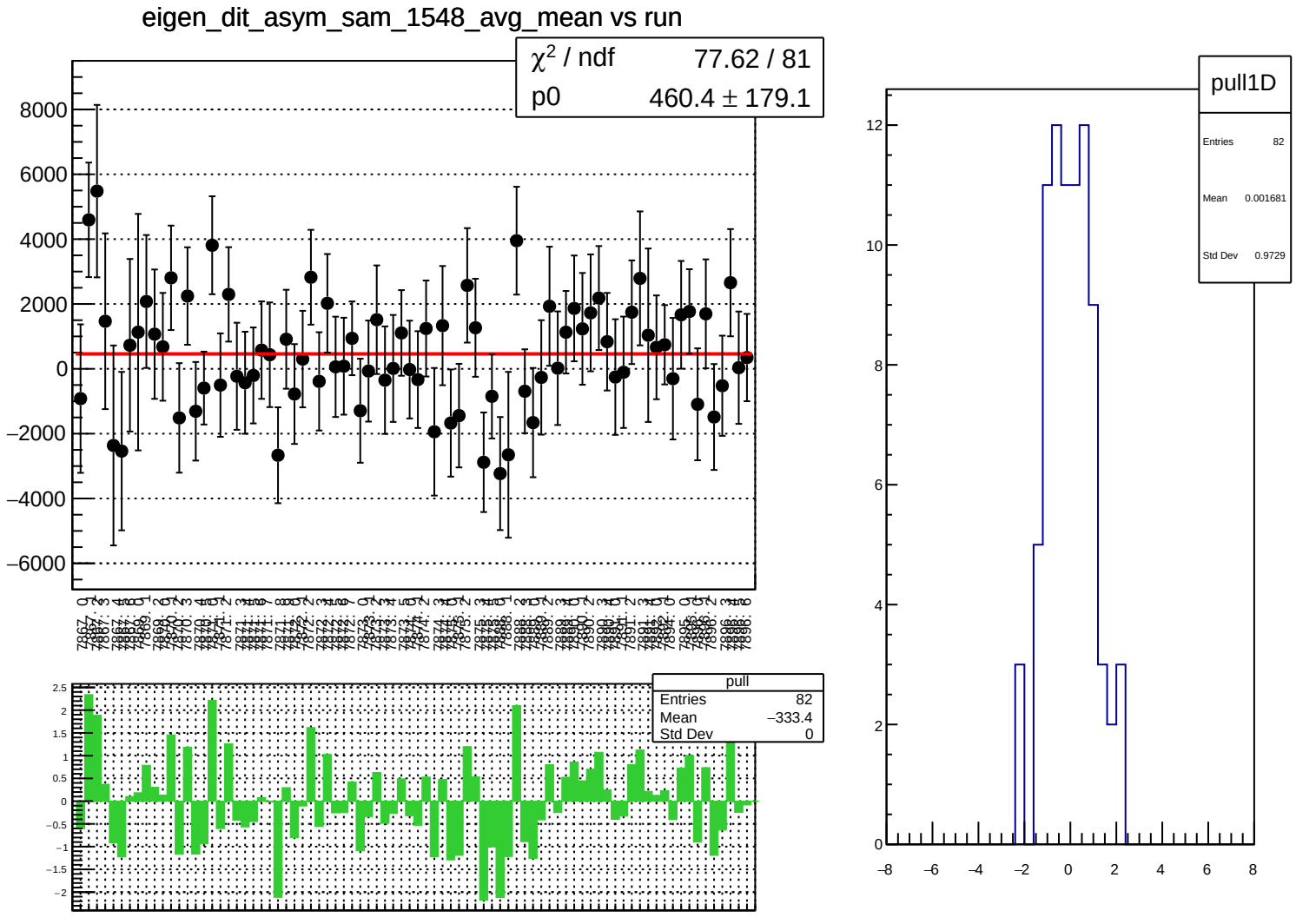

pull1D
Entries 82
Mean 0.001681
Std Dev 0.9729

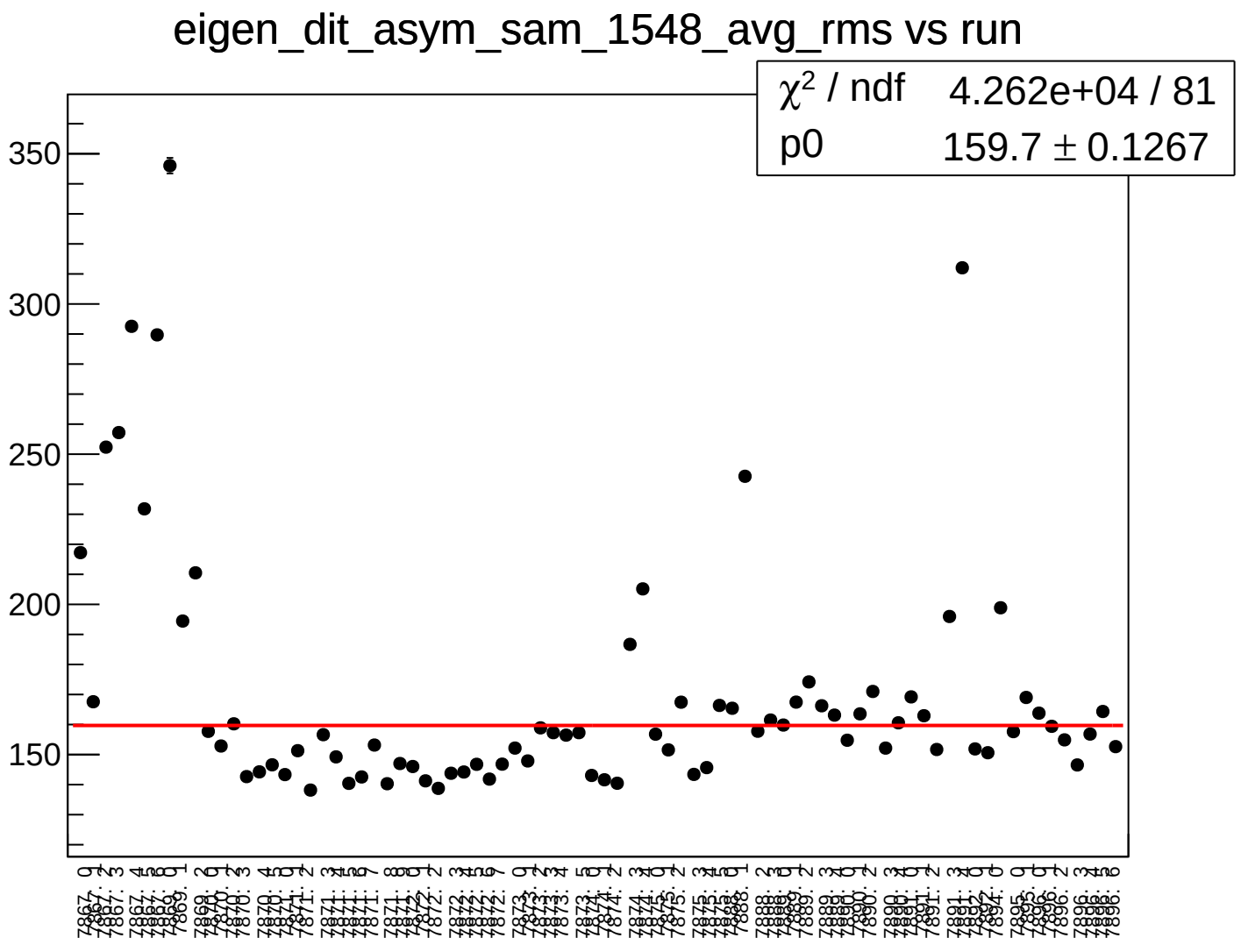

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.262e+04 / 81
p0 159.7 ± 0.1267
350
300
250
200
150

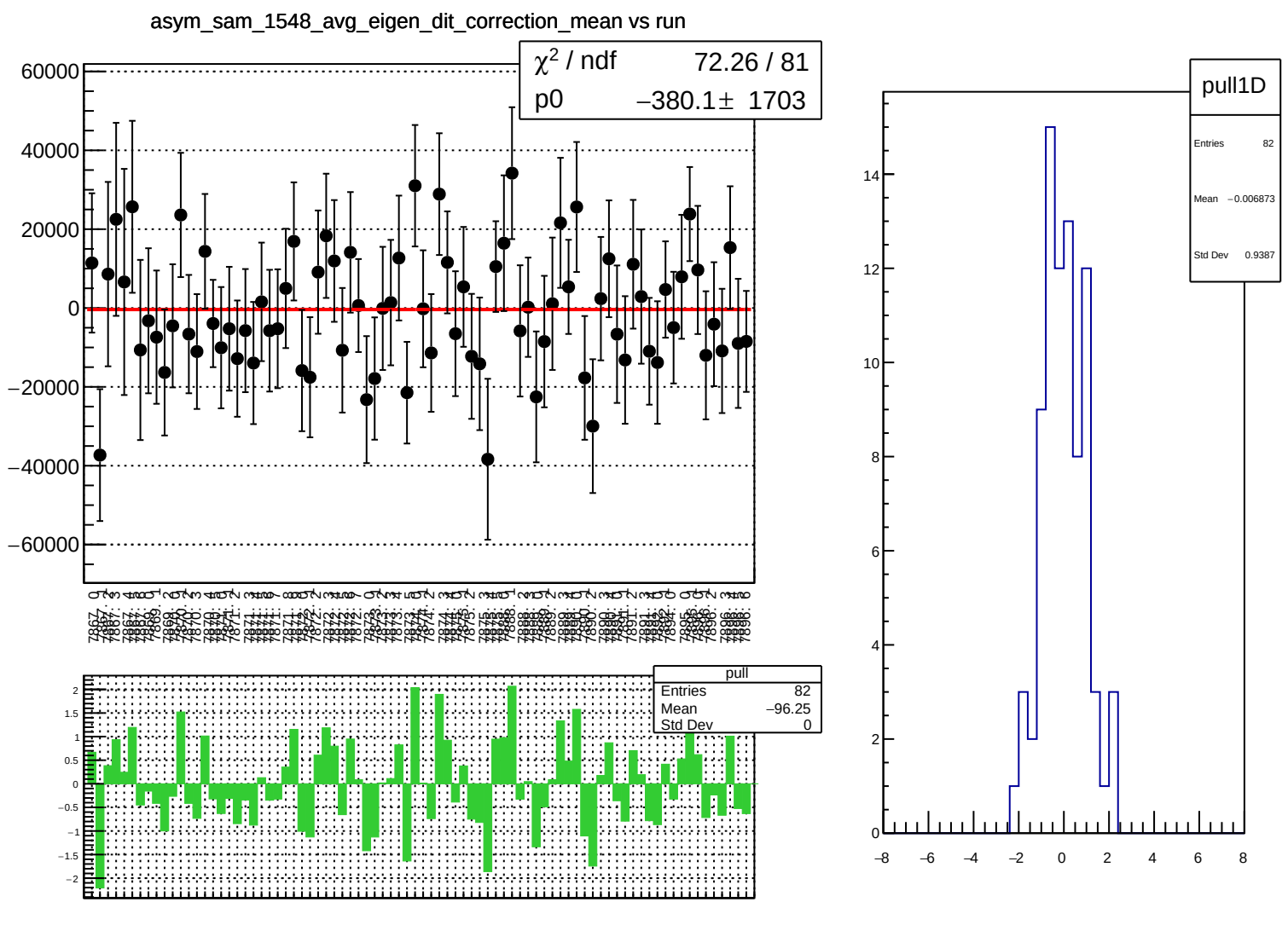

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 72.26 / 81
p0 −380.1± 1703
pull
Entries 82
Mean −96.25
Std Dev 0

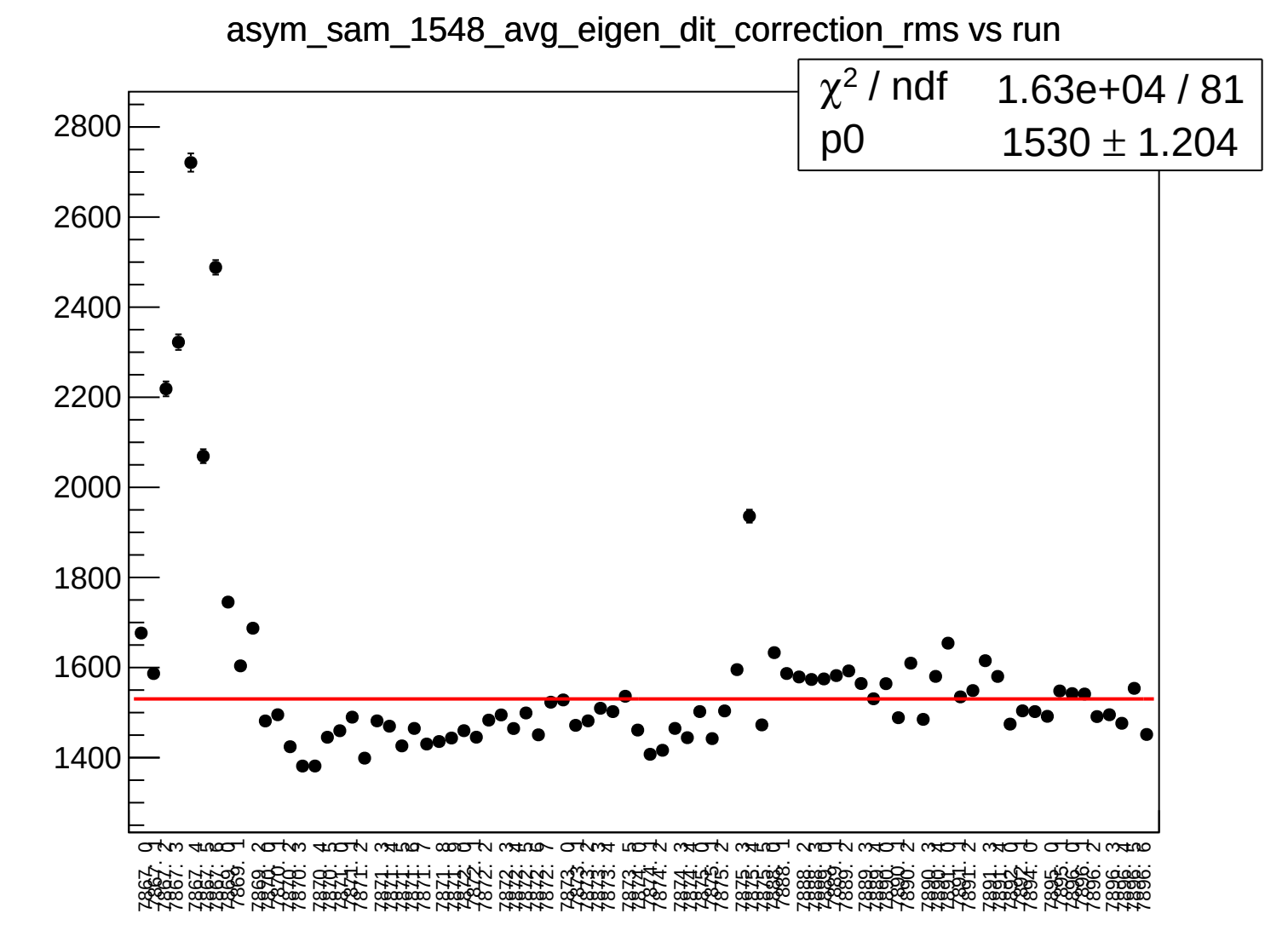

pull1D
Entries 82
Mean −0.006873
Std Dev 0.9387

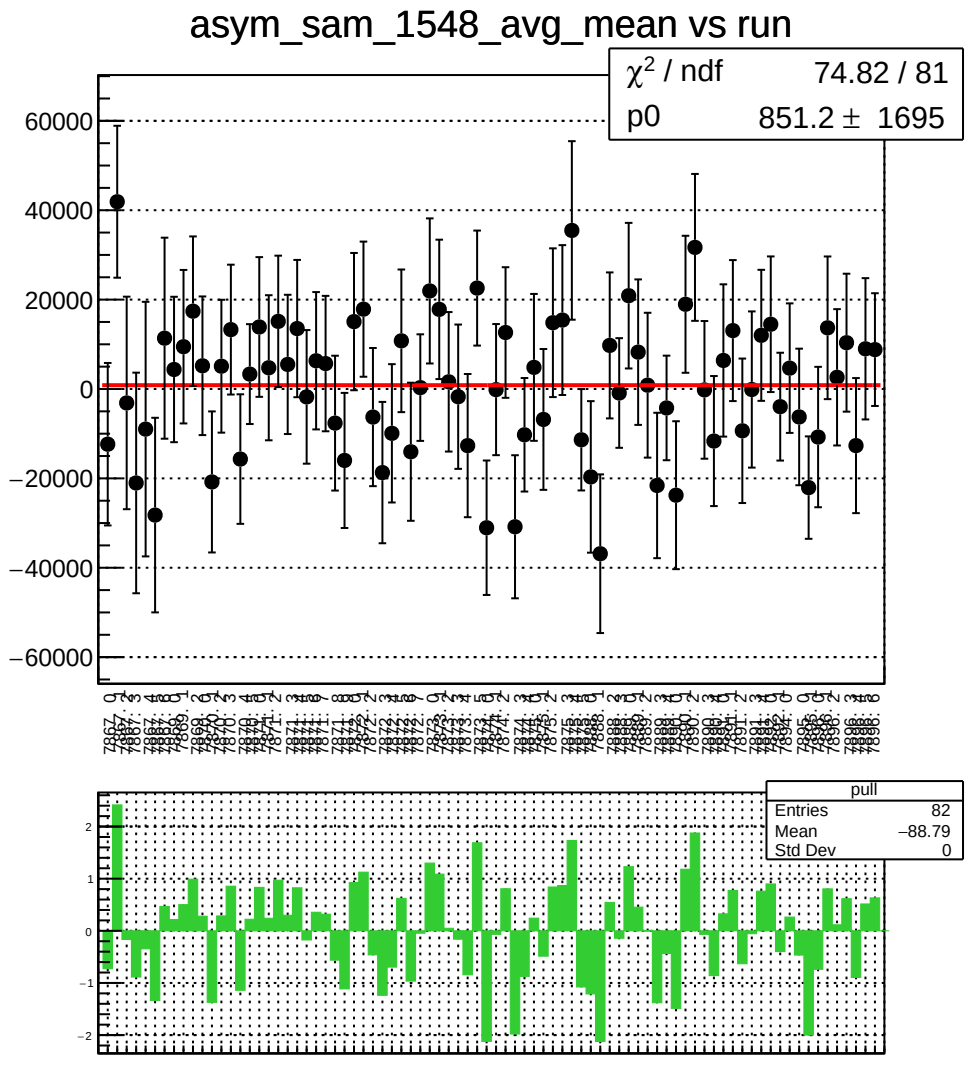

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.63e+04 / 81
p0 1530 ± 1.204
2800
2600
2400
2200
2000
1800
1600
1400

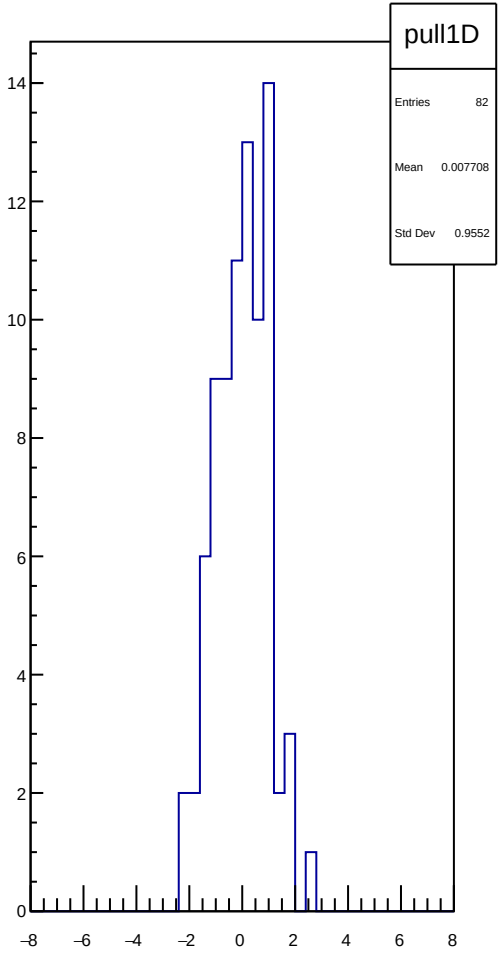

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.62 / 81
p0 460.4 ± 179.1
pull
Entries 82
Mean −333.4
Std Dev 0
pull1D
Entries 82
Mean 0.001681
Std Dev 0.9729

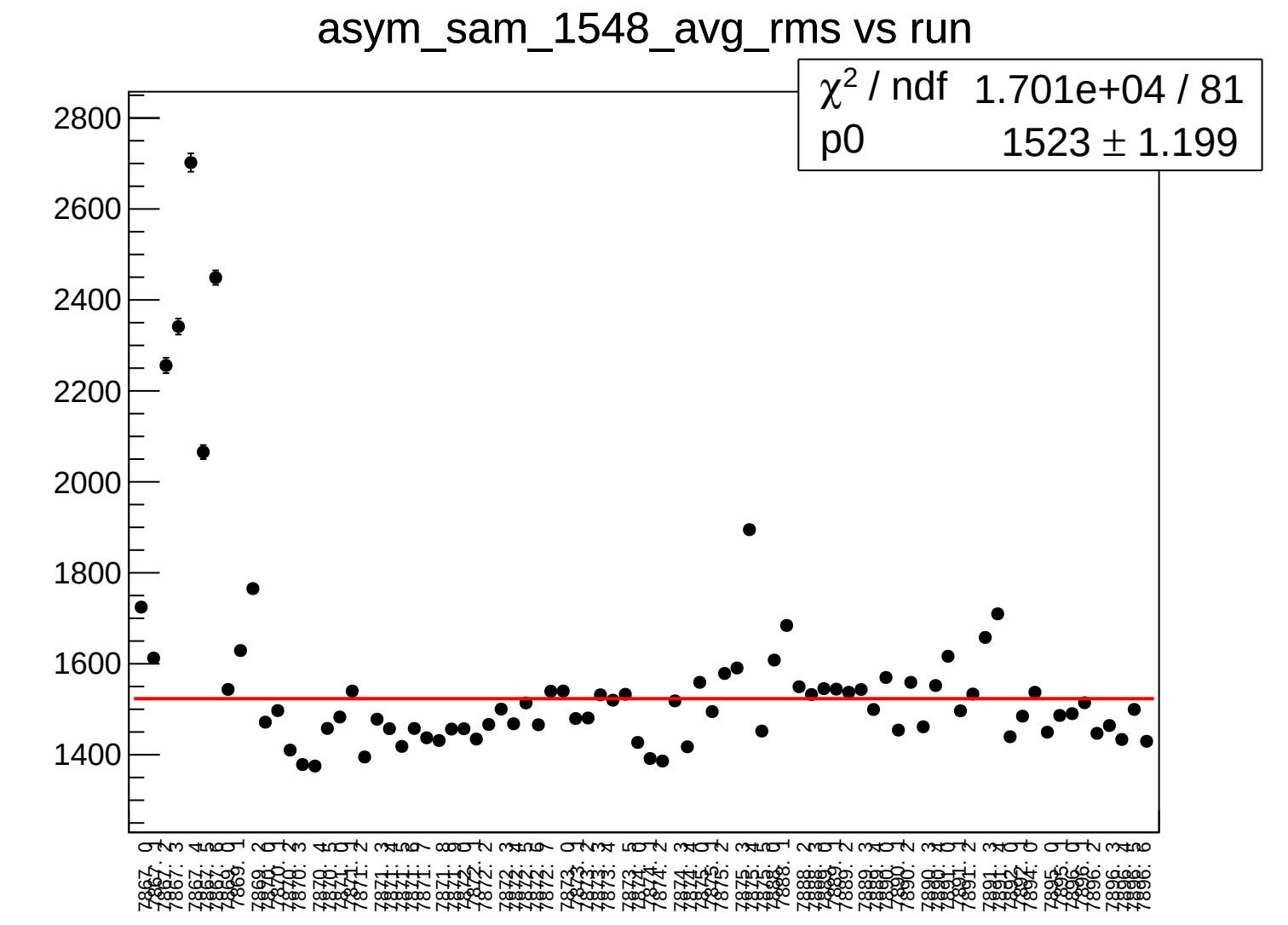

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.262e+04 / 81
p0 159.7 ± 0.1267
350
300
250
200
150

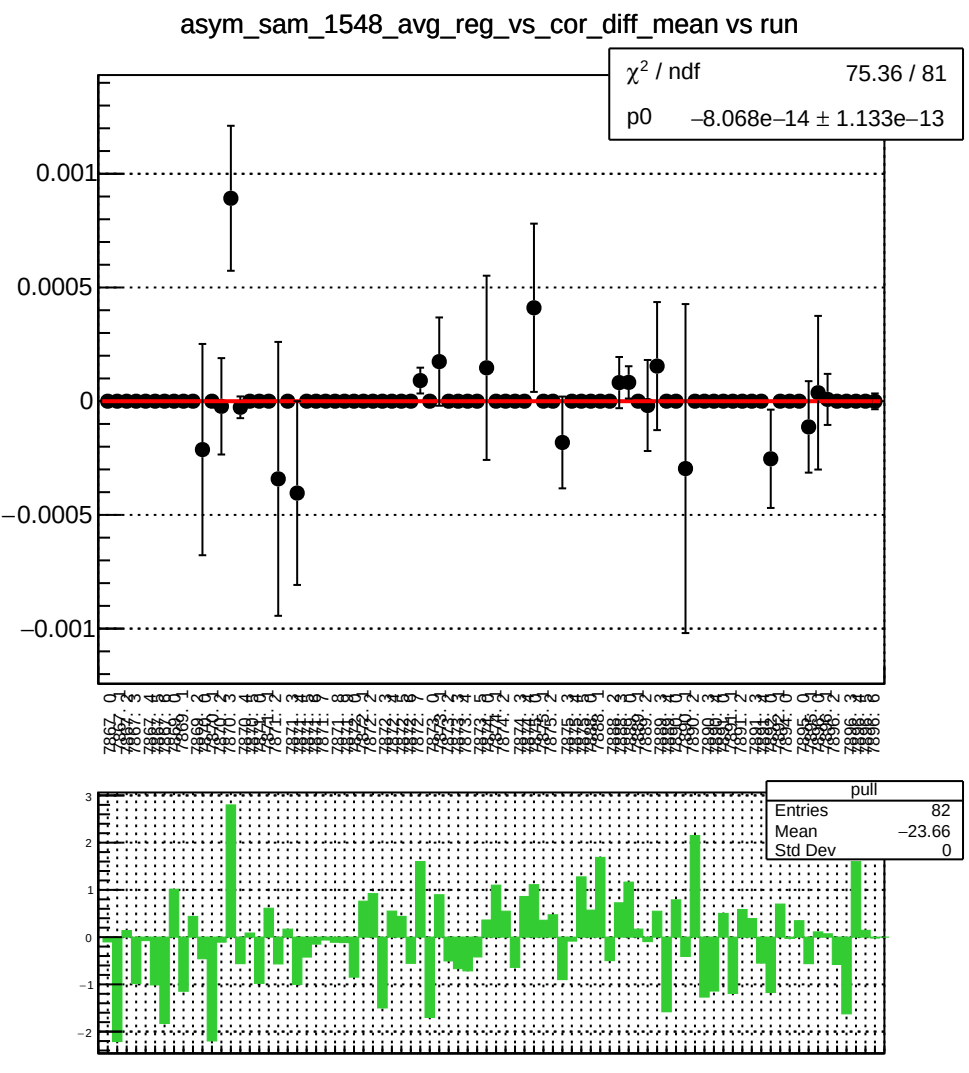

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.26 / 81
p0 −380.1± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −96.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.006873
Std Dev 0.9387
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

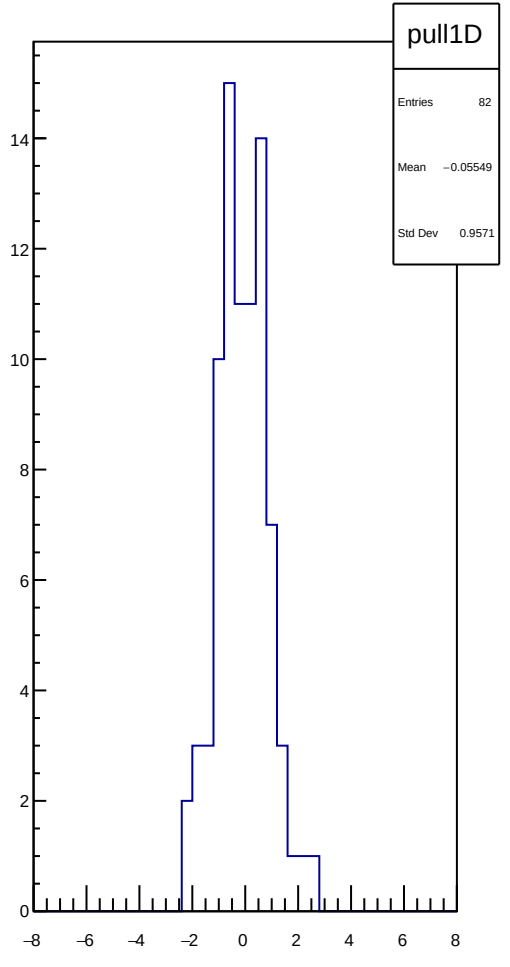

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.63e+04 / 81
p0 1530 ± 1.204
2800
2600
2400
2200
2000
1800
1600
1400

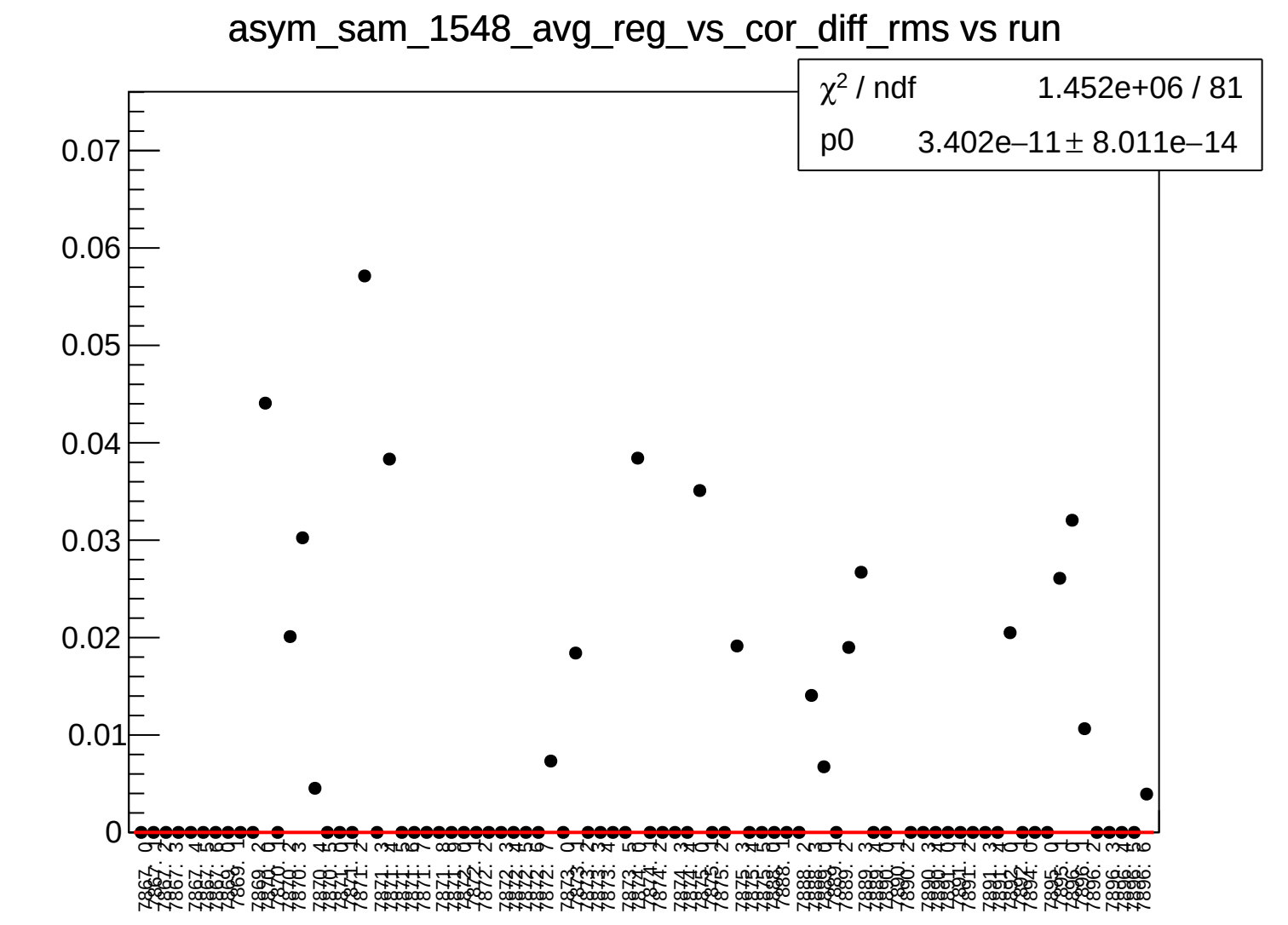

asym_sam_1548_avg_mean vs run
χ² / ndf 74.82 / 81
p0 851.2 ± 1695
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −88.79
Std Dev 0
2
1
0
−1
−2

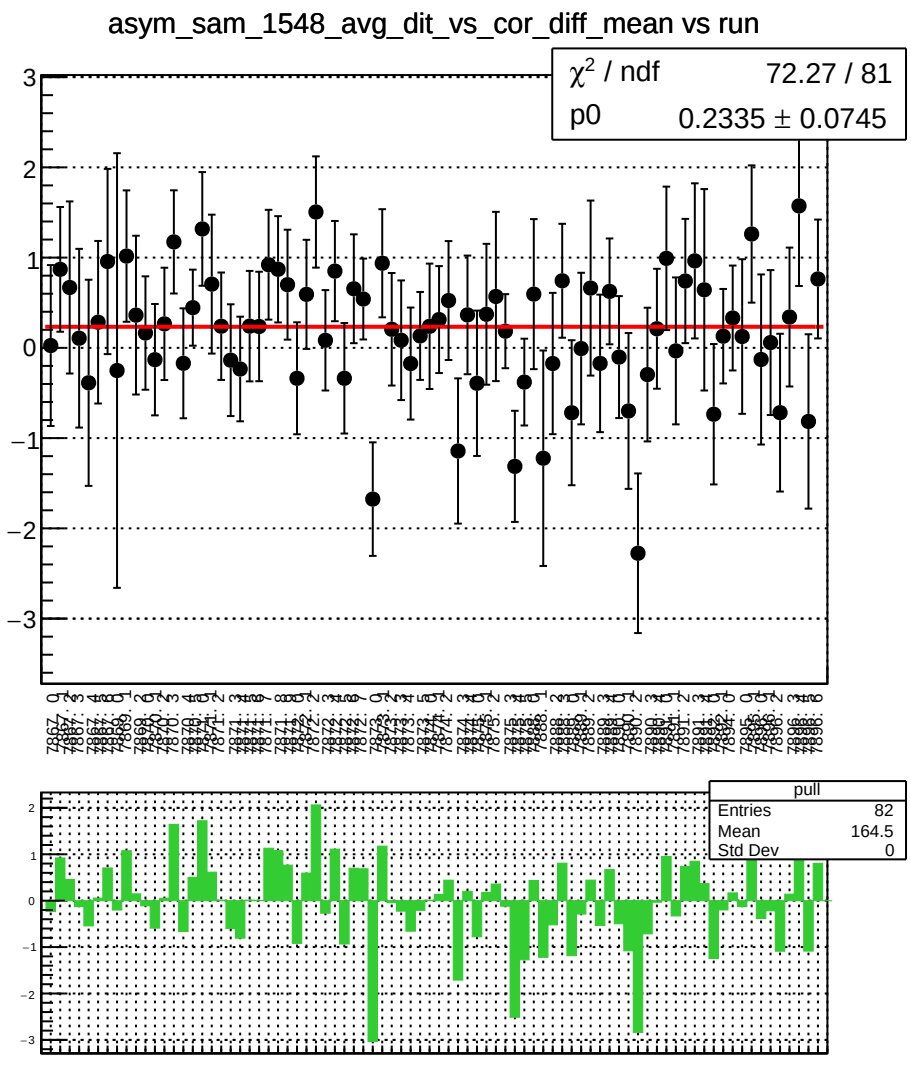

pull1D
Entries 82
Mean 0.007708
Std Dev 0.9552
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

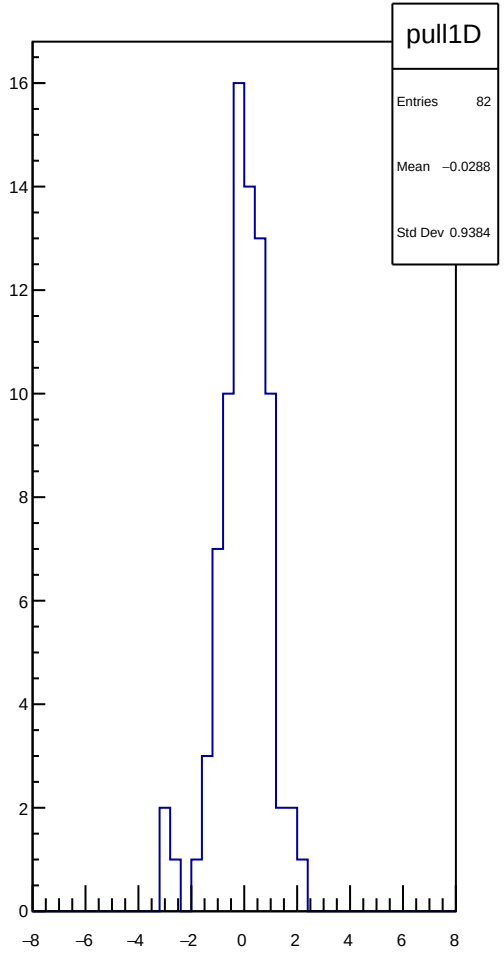

asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.701e+04 / 81
p0 1523 ± 1.199
2800
2600
2400
2200
2000
1800
1600
1400

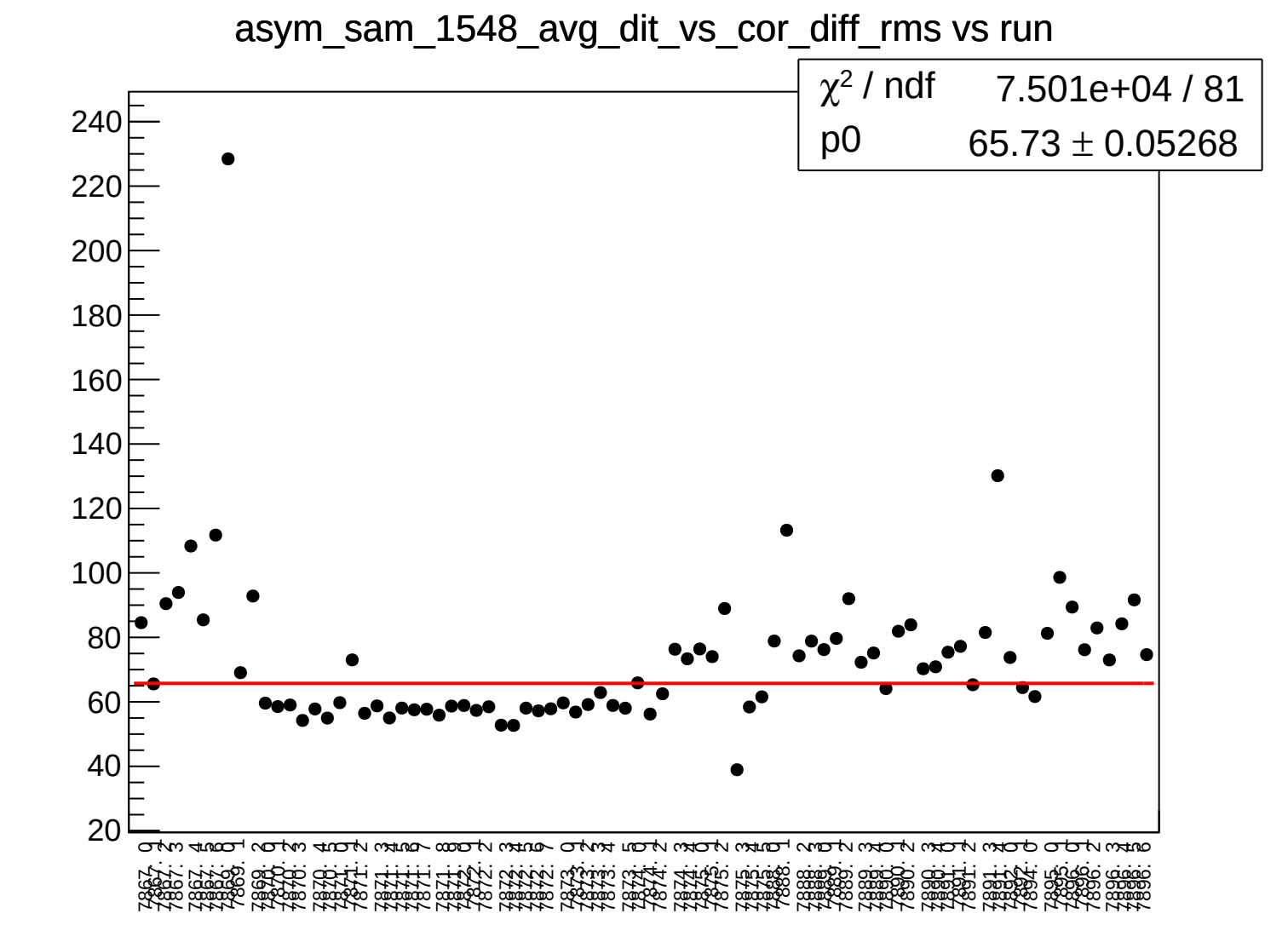

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.36 / 81
p0 −8.068e−14 ± 1.133e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean −23.66
Std Dev 0
3
2
1
0
−1
−2

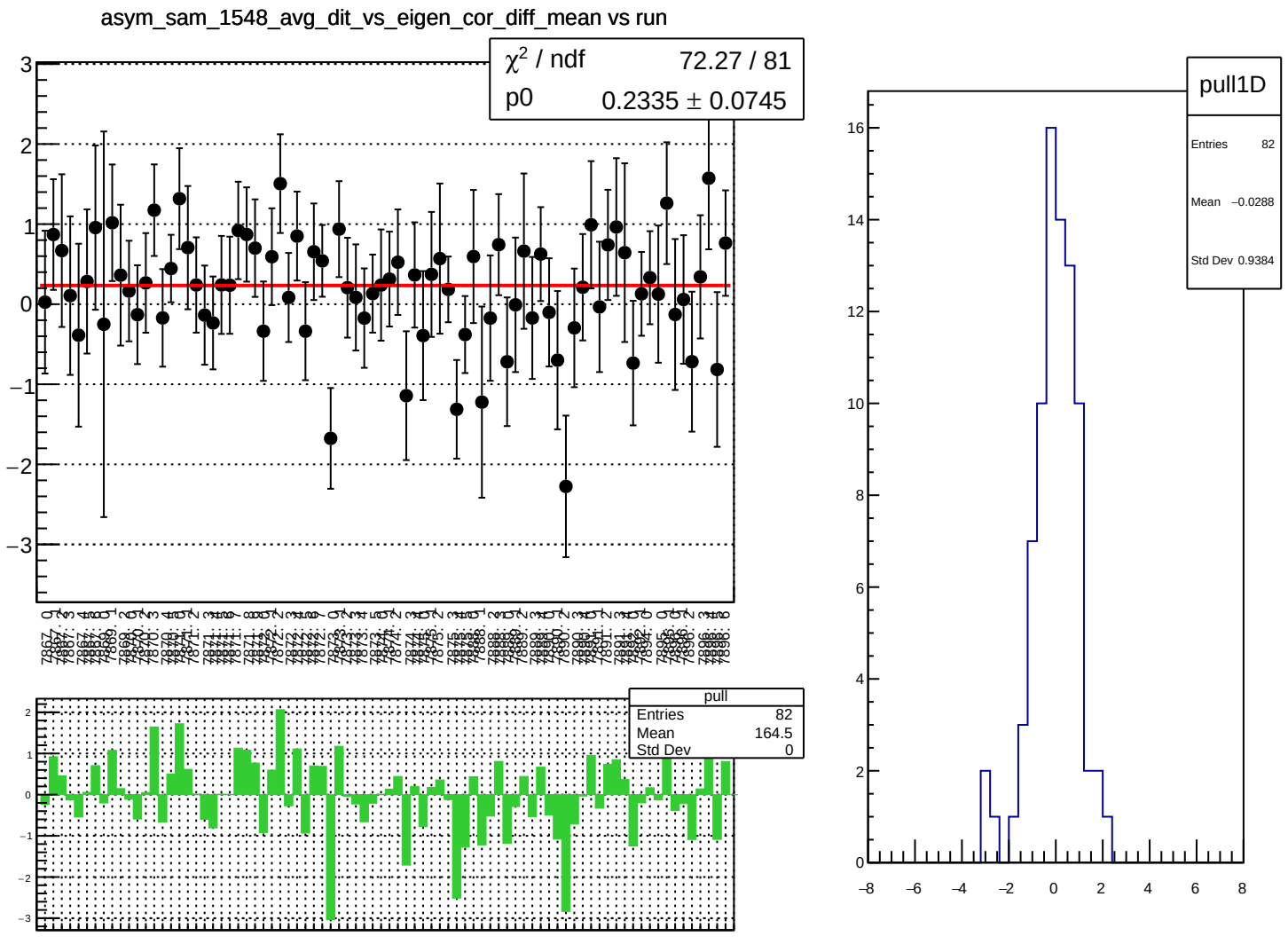

pull1D
Entries 82
Mean −0.05549
Std Dev 0.9571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

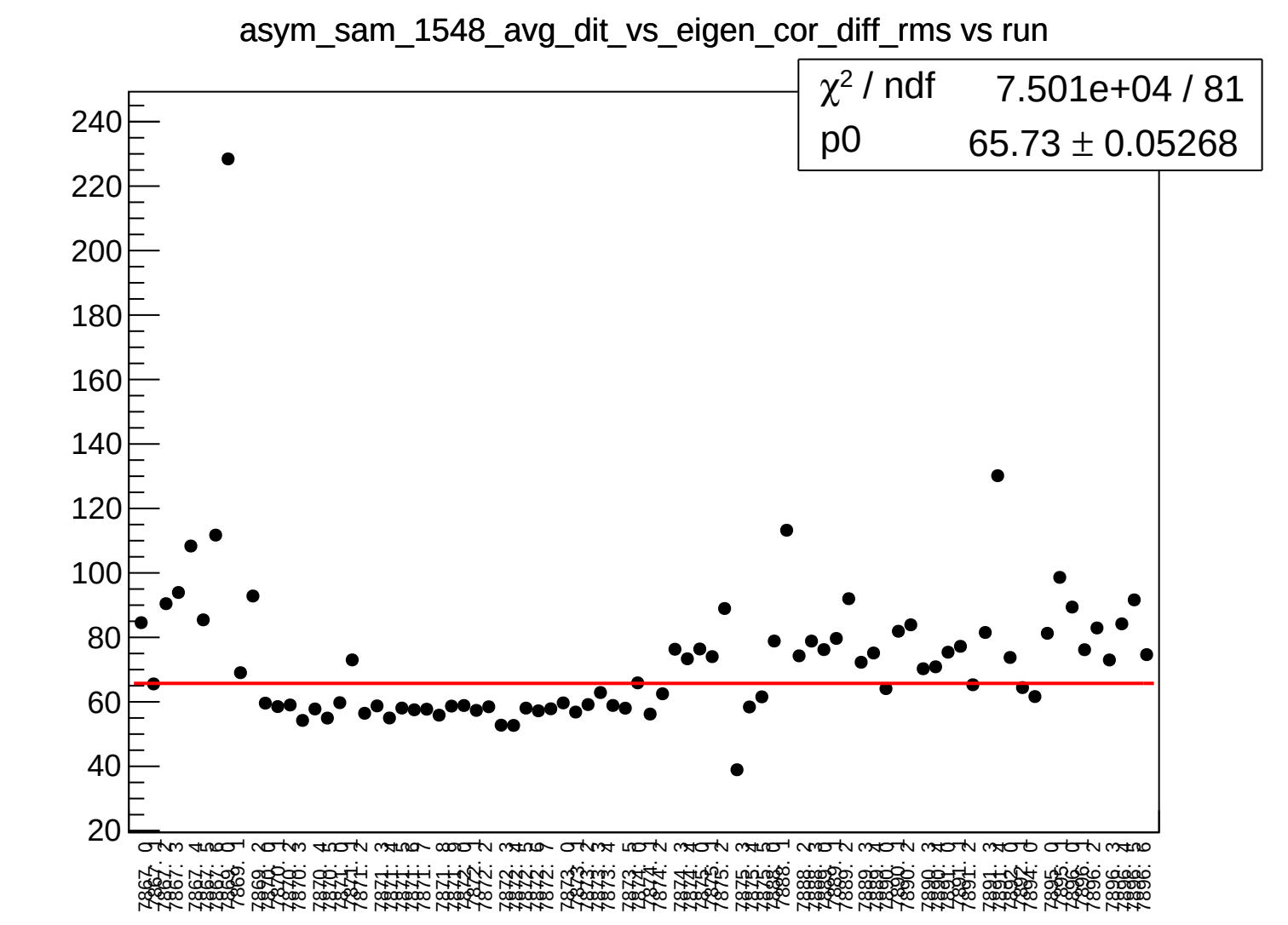

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.452e+06 / 81
p0 3.402e−11 ± 8.011e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

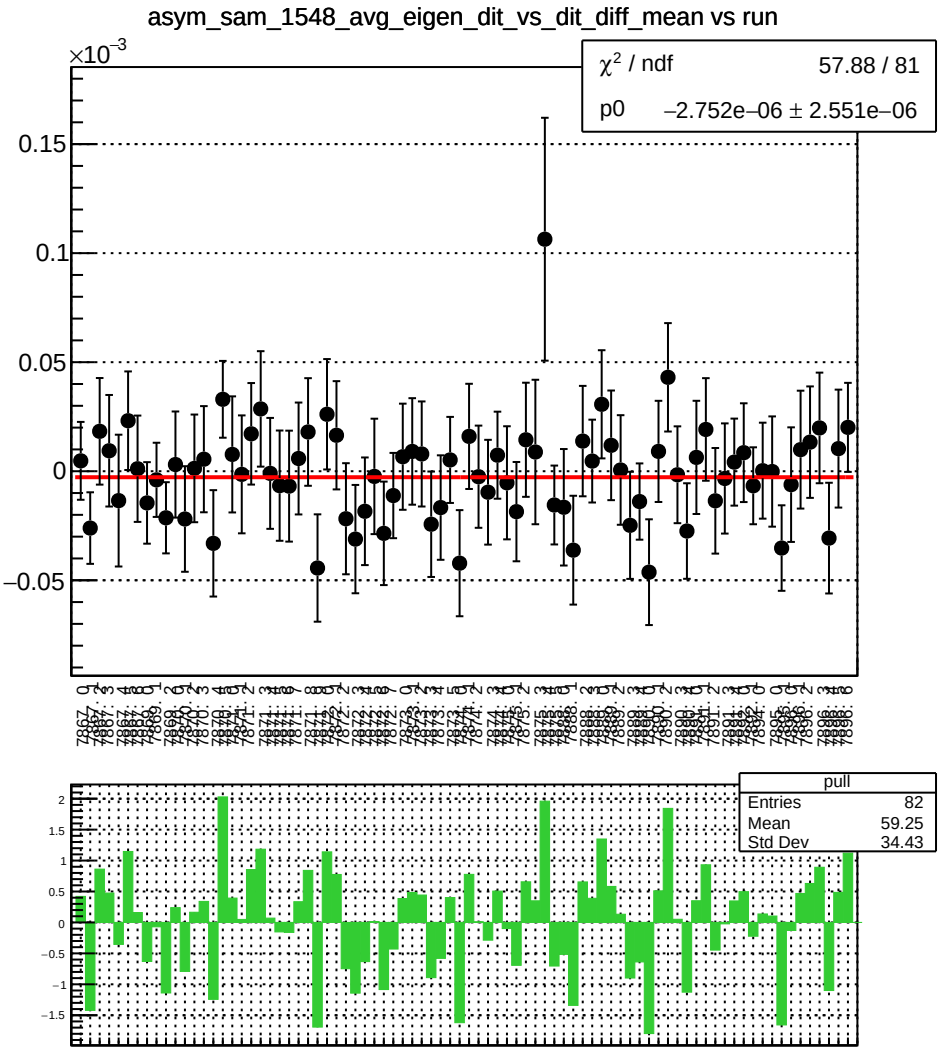

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.27 / 81
p0 0.2335 ± 0.0745
pull
Entries 82
Mean 164.5
Std Dev 0

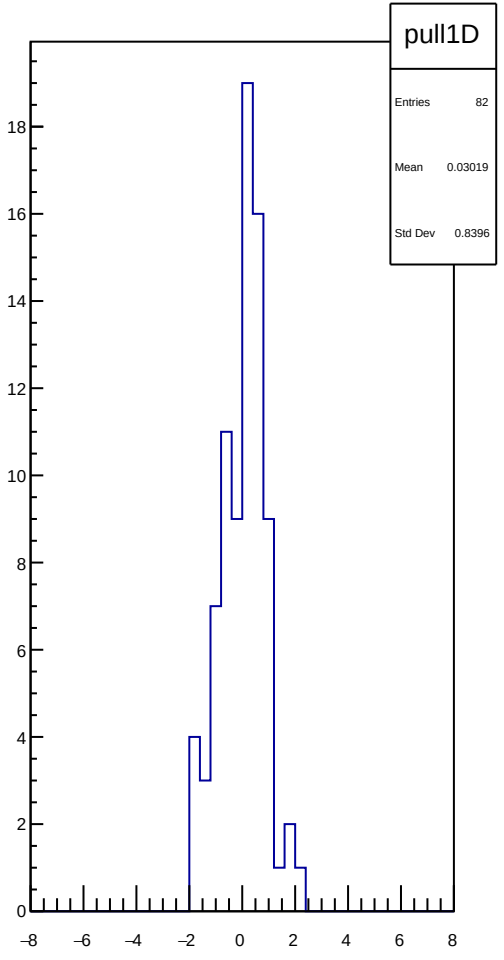

pull1D
Entries 82
Mean −0.0288
Std Dev 0.9384

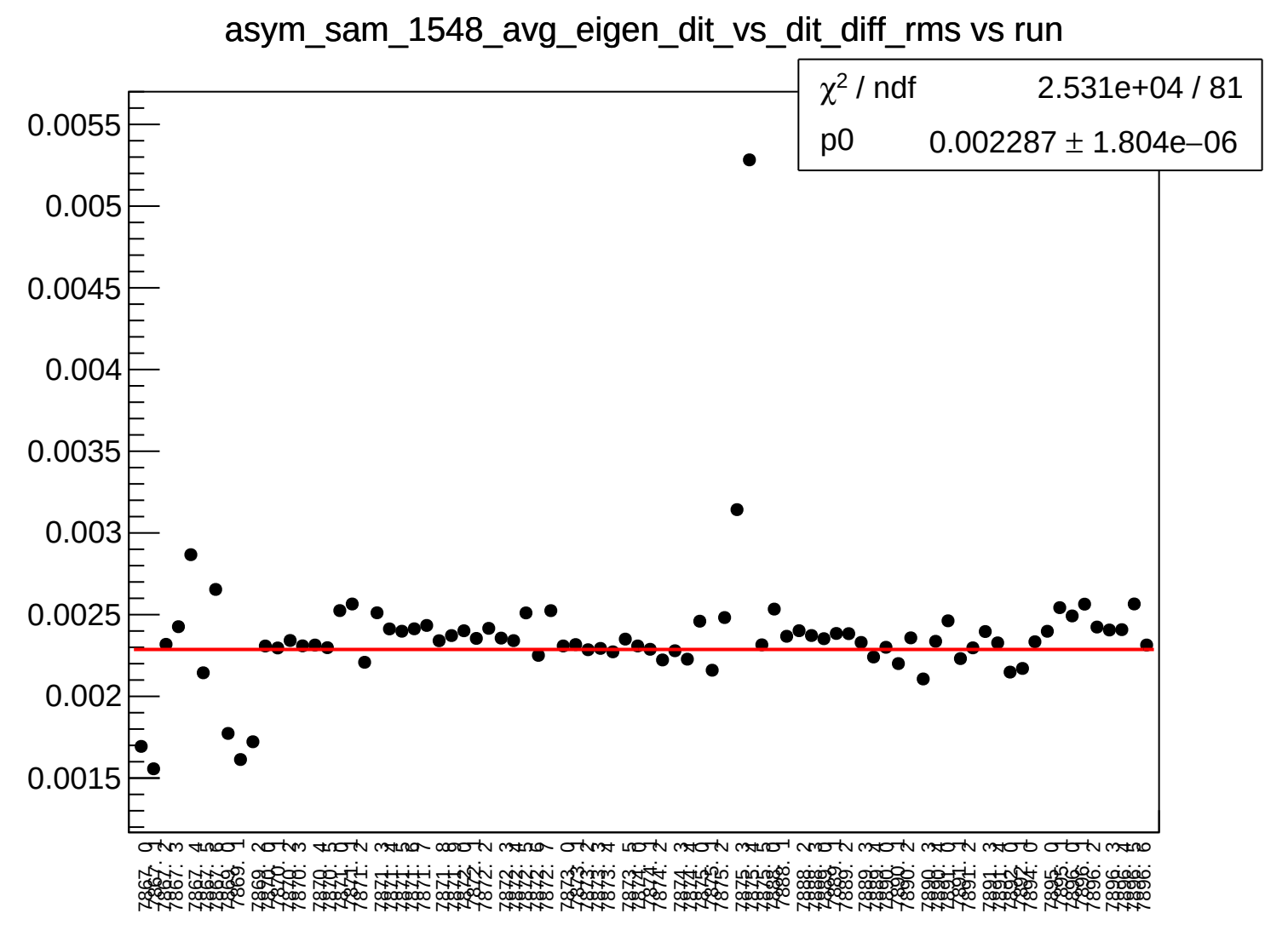

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.501e+04 / 81
p0 65.73 ± 0.05268
240
220
200
180
160
140
120
100
80
60
40
20

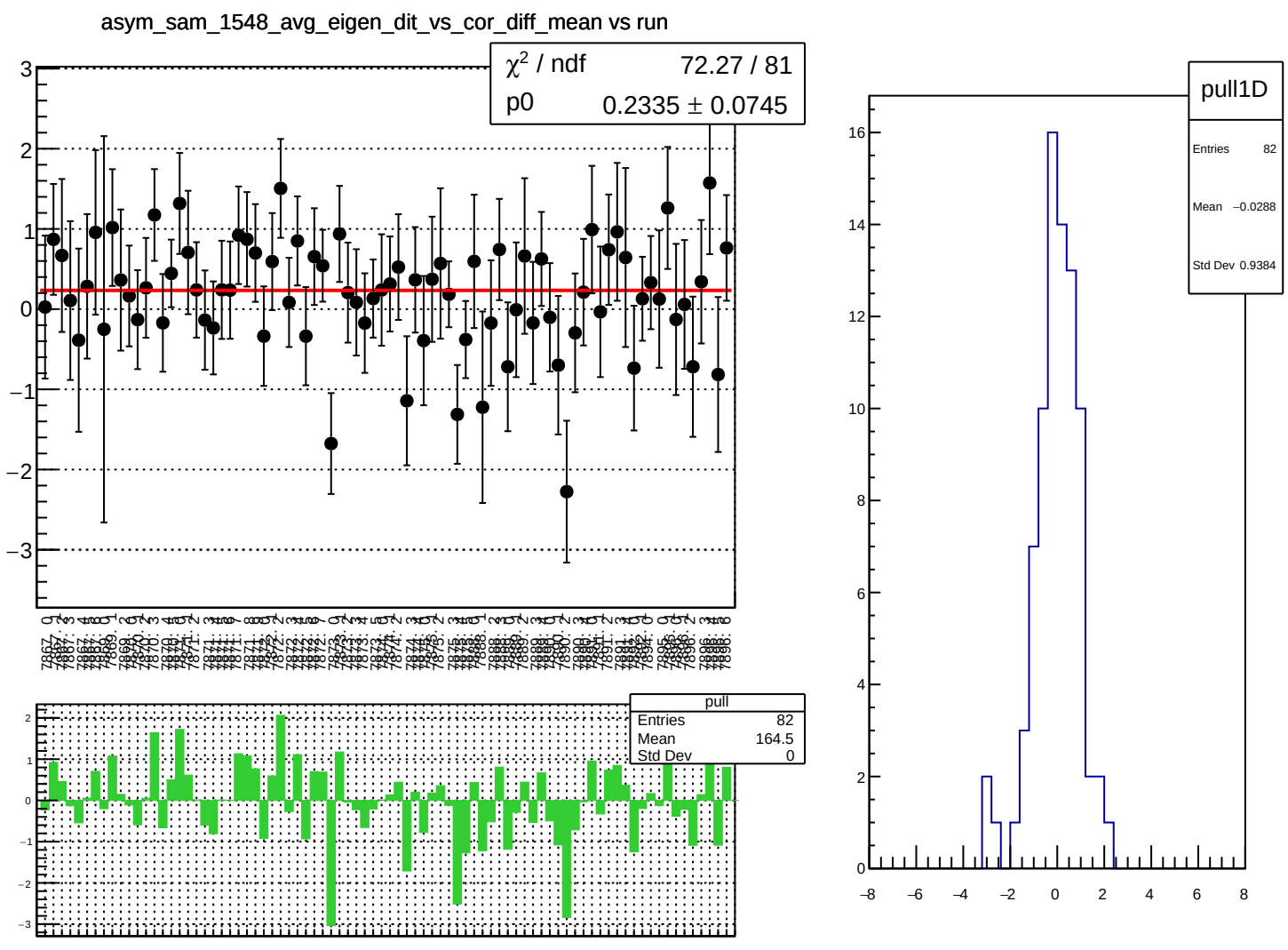

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.27 / 81
p0 0.2335 ± 0.0745
pull
Entries 82
Mean 164.5
Std Dev 0
pull1D
Entries 82
Mean −0.0288
Std Dev 0.9384

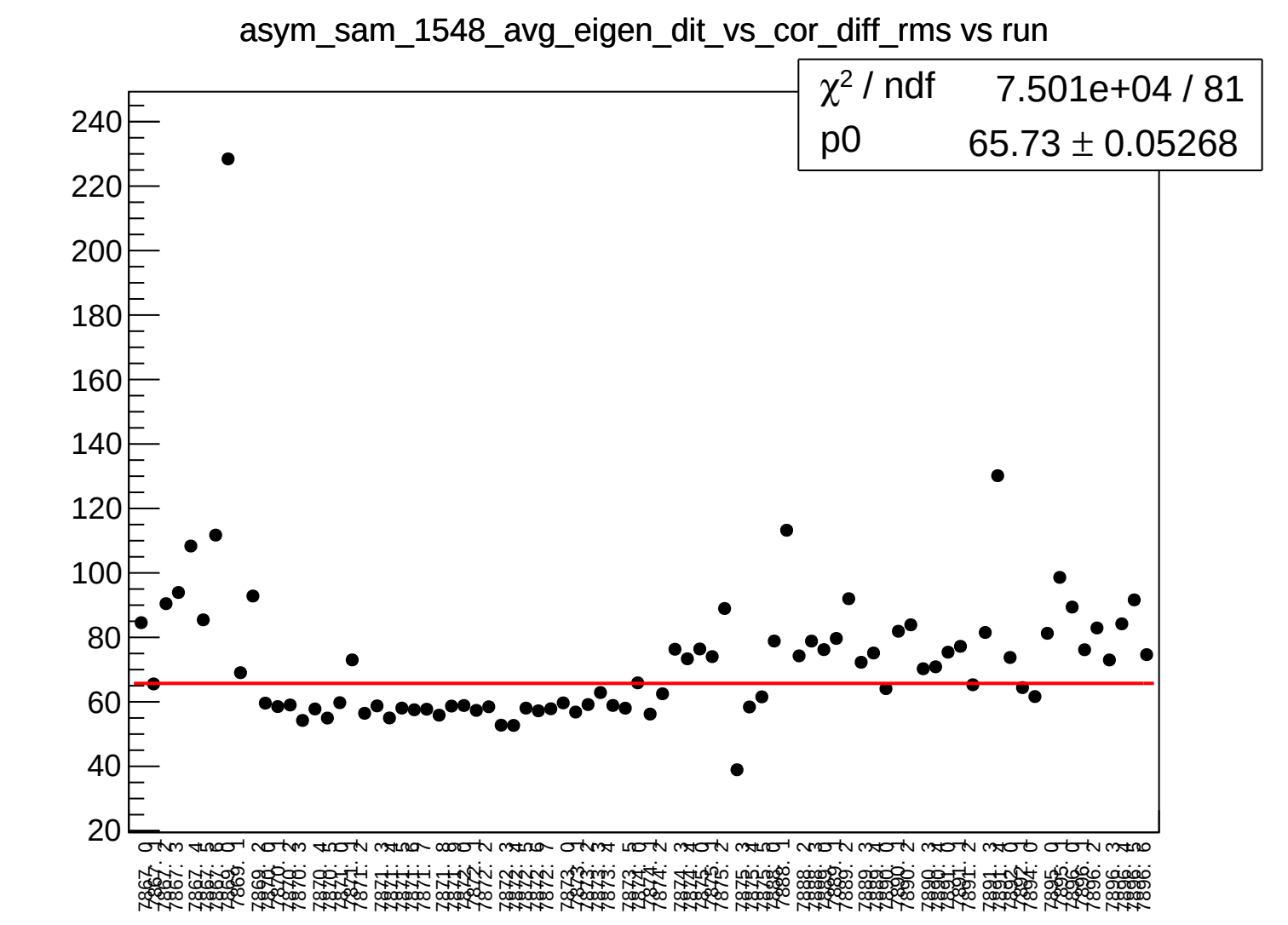

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.501e+04 / 81
p0 65.73 ± 0.05268
240
220
200
180
160
140
120
100
80
60
40
20

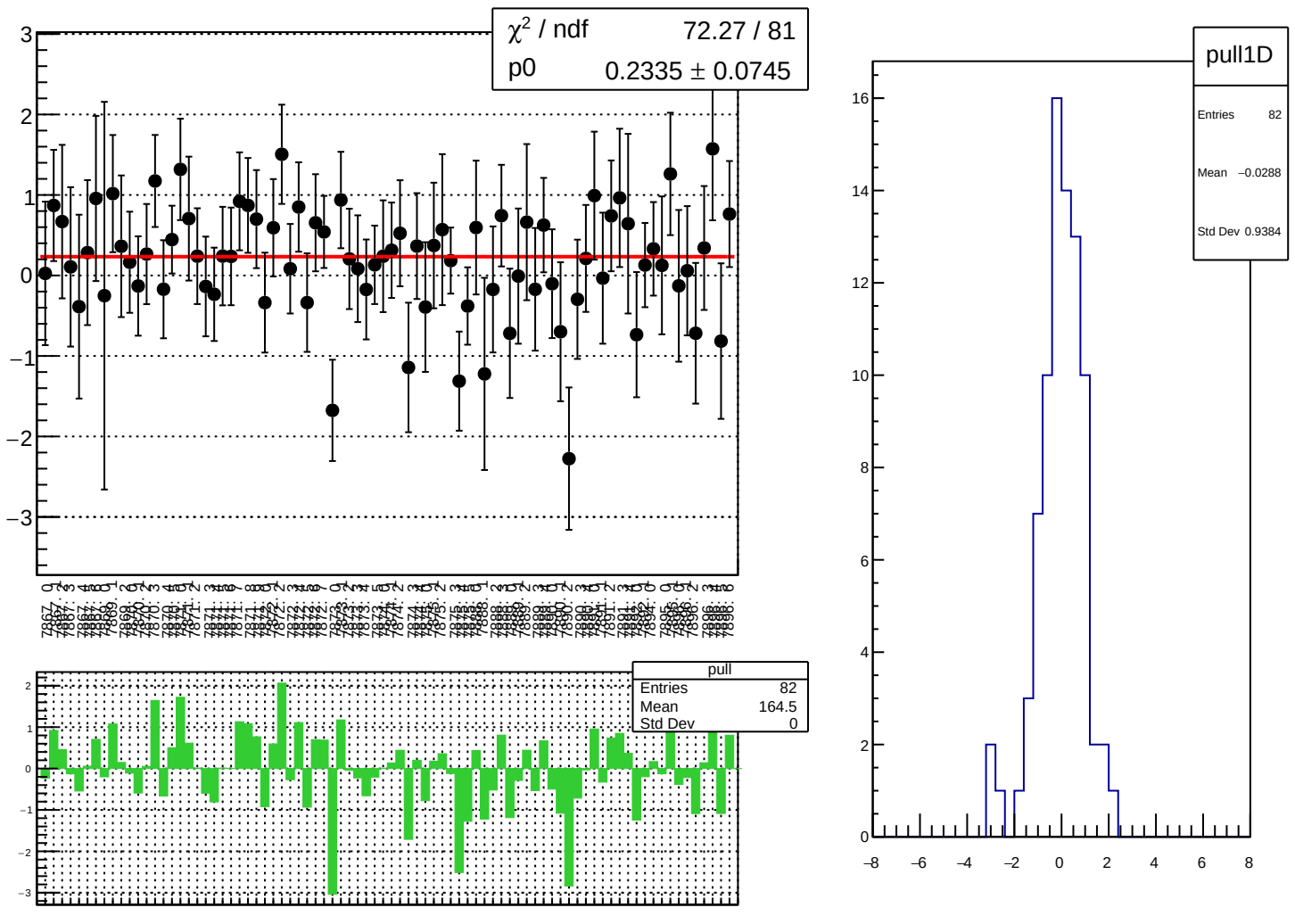

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.88 / 81
p0 −2.752e−06 ± 2.551e−06
0.15
0.1
0.05
0
−0.05
pull
Entries 82
Mean 59.25
Std Dev 34.43
2
1.5
1
0.5
0
−0.5
−1
−1.5

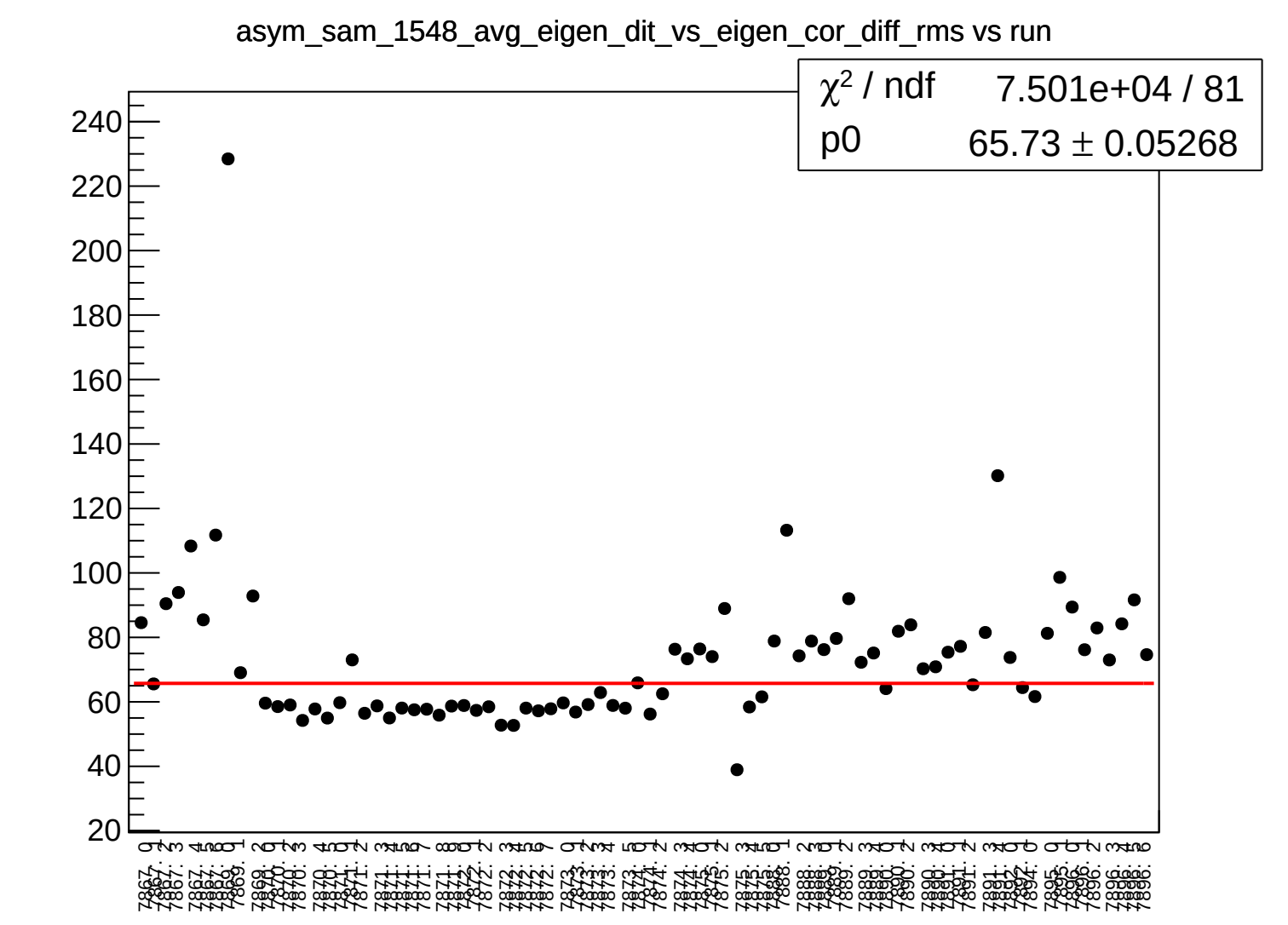

pull1D
Entries 82
Mean 0.03019
Std Dev 0.8396
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

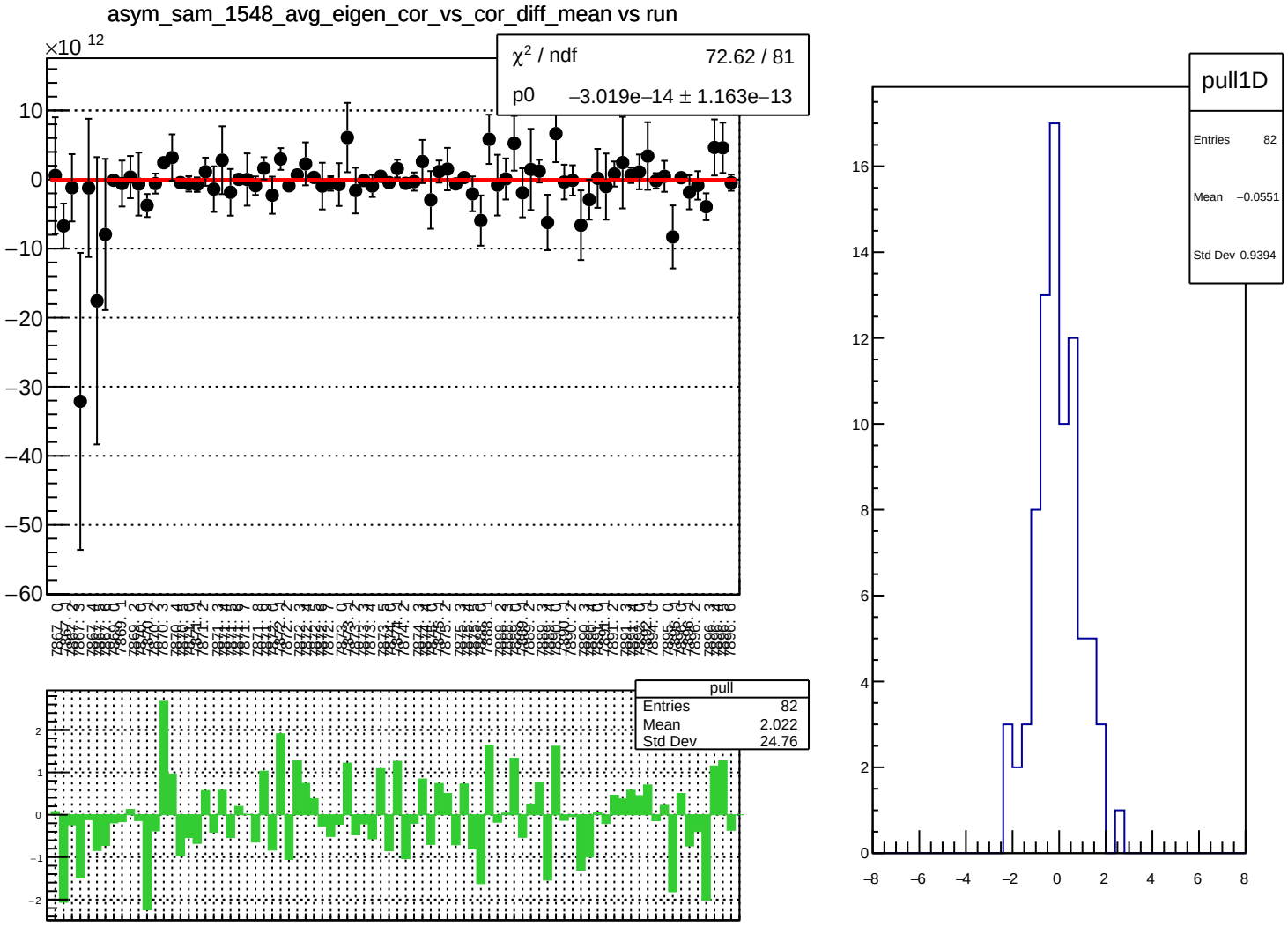

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.531e+04 / 81
p0 0.002287 ± 1.804e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

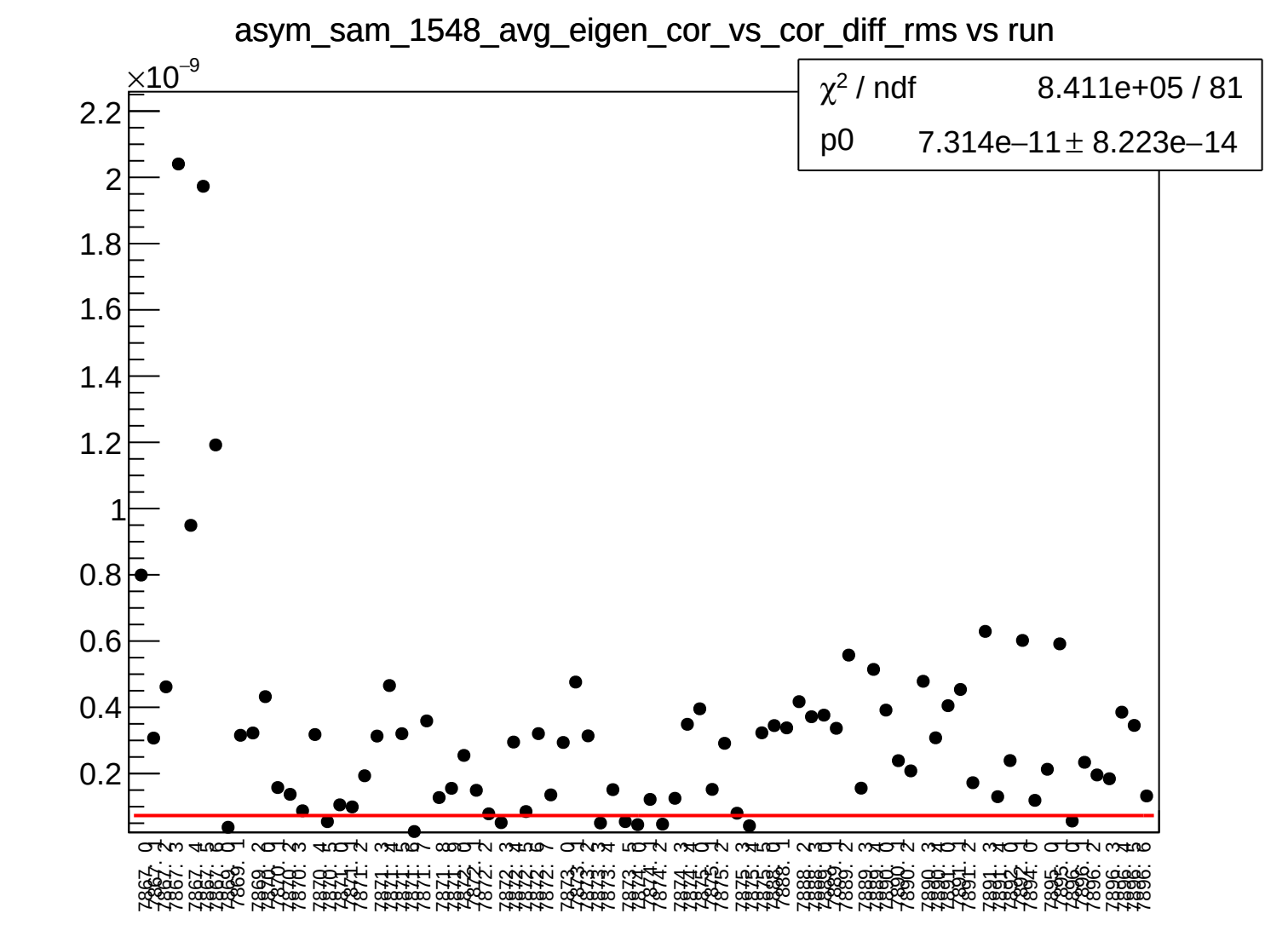

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.27 / 81
p0 0.2335 ± 0.0745
pull
Entries 82
Mean 164.5
Std Dev 0
pull1D
Entries 82
Mean −0.0288
Std Dev 0.9384

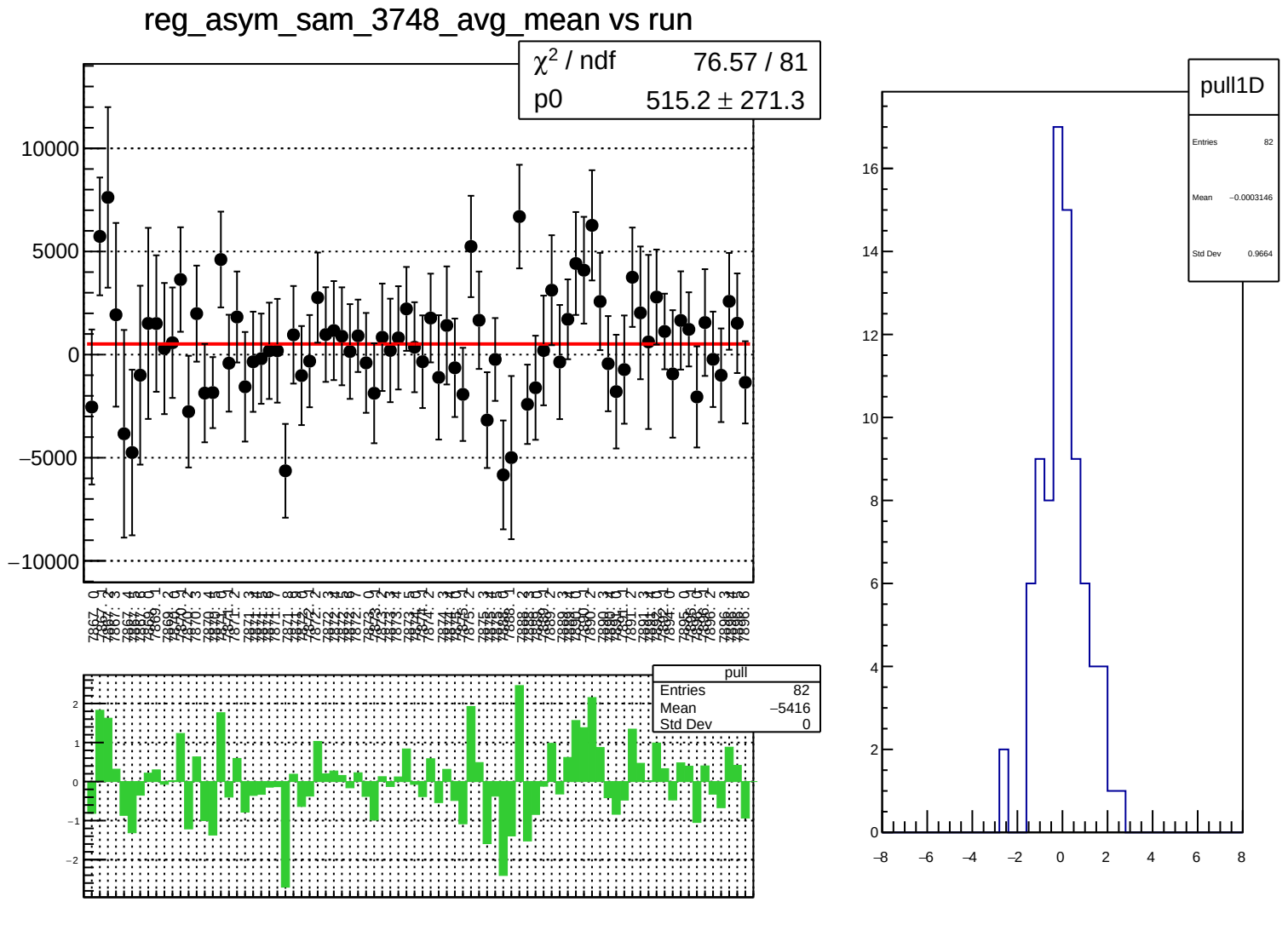

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.501e+04 / 81
p0 65.73 ± 0.05268
240
220
200
180
160
140
120
100
80
60
40
20

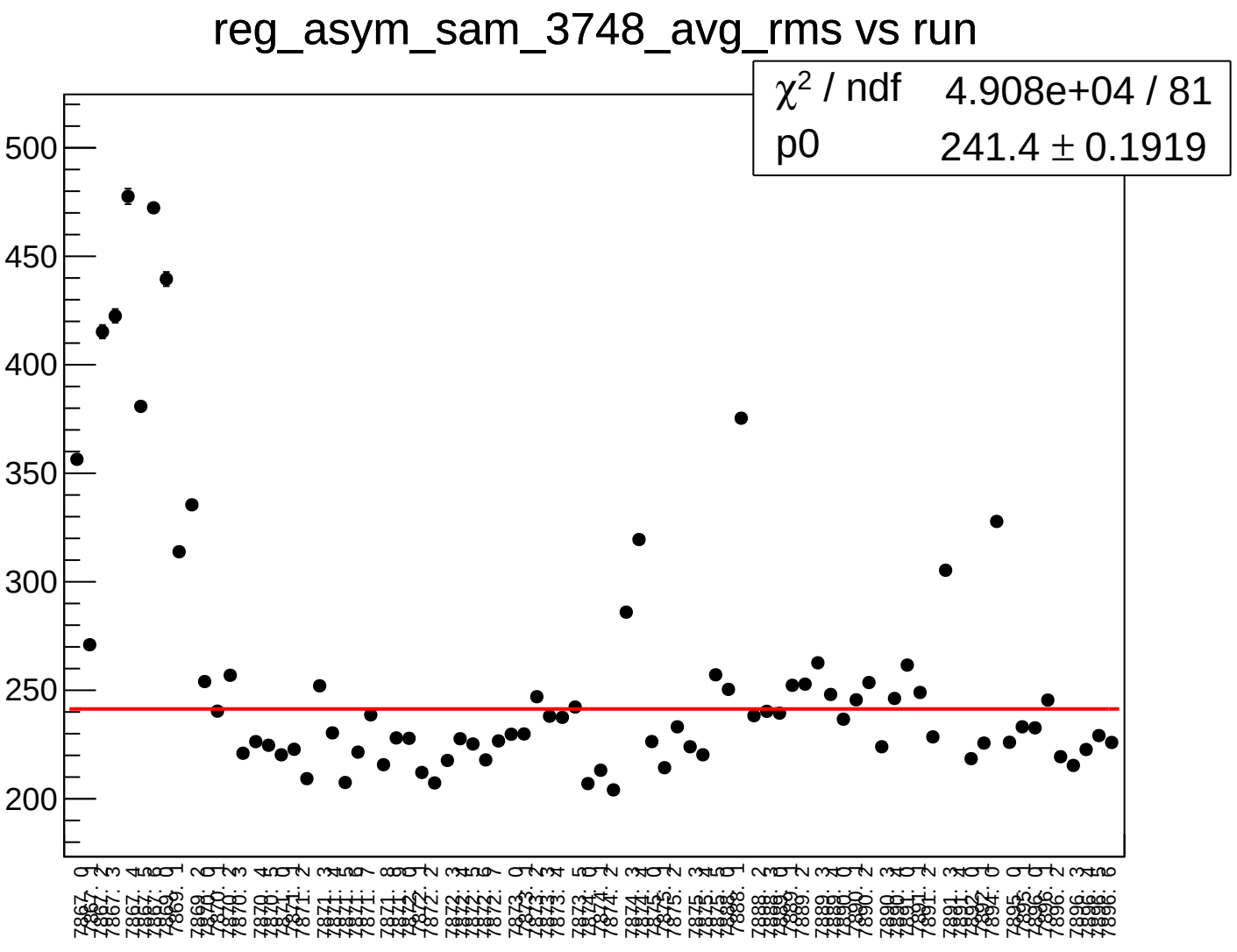

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.27 / 81
p0 0.2335 ± 0.0745
pull
Entries 82
Mean 164.5
Std Dev 0
pull1D
Entries 82
Mean −0.0288
Std Dev 0.9384

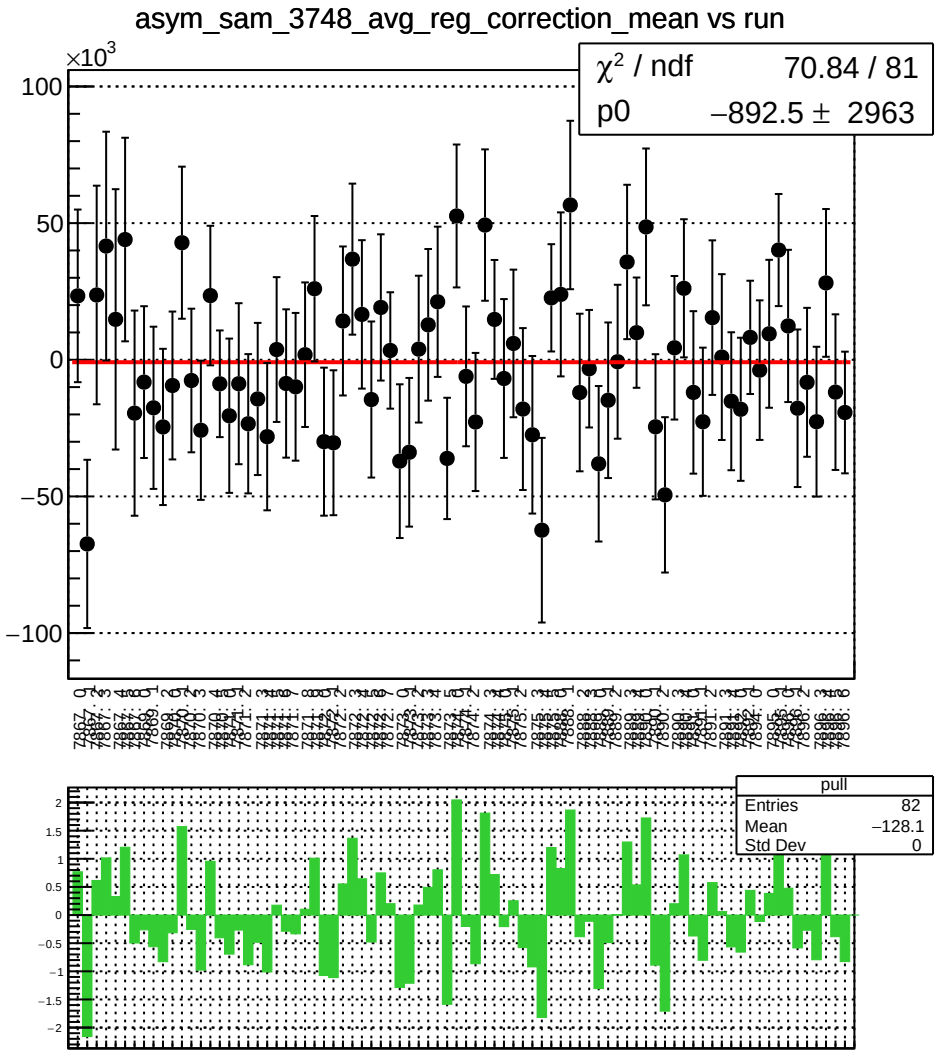

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.501e+04 / 81
p0 65.73 ± 0.05268
240
220
200
180
160
140
120
100
80
60
40
20

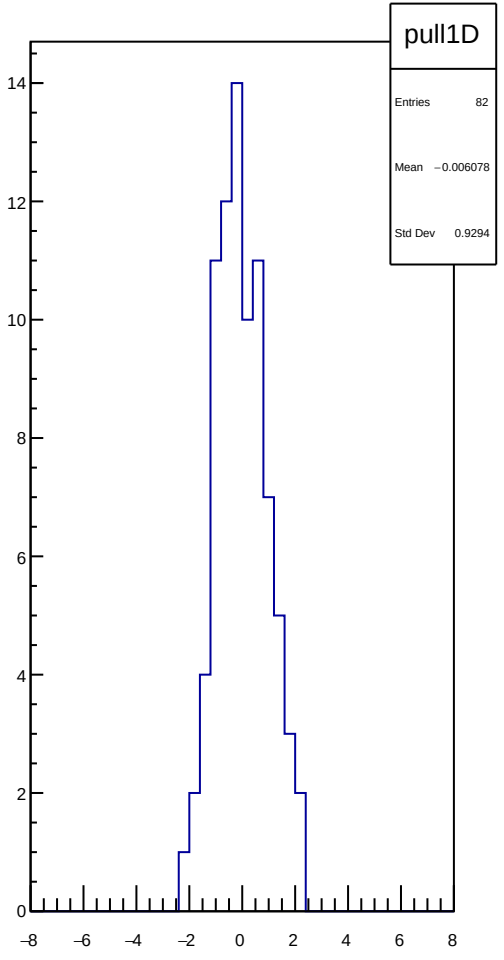

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.62 / 81
p0 −3.019e−14 ± 1.163e−13
pull
Entries 82
Mean 2.022
Std Dev 24.76
pull1D
Entries 82
Mean −0.0551
Std Dev 0.9394

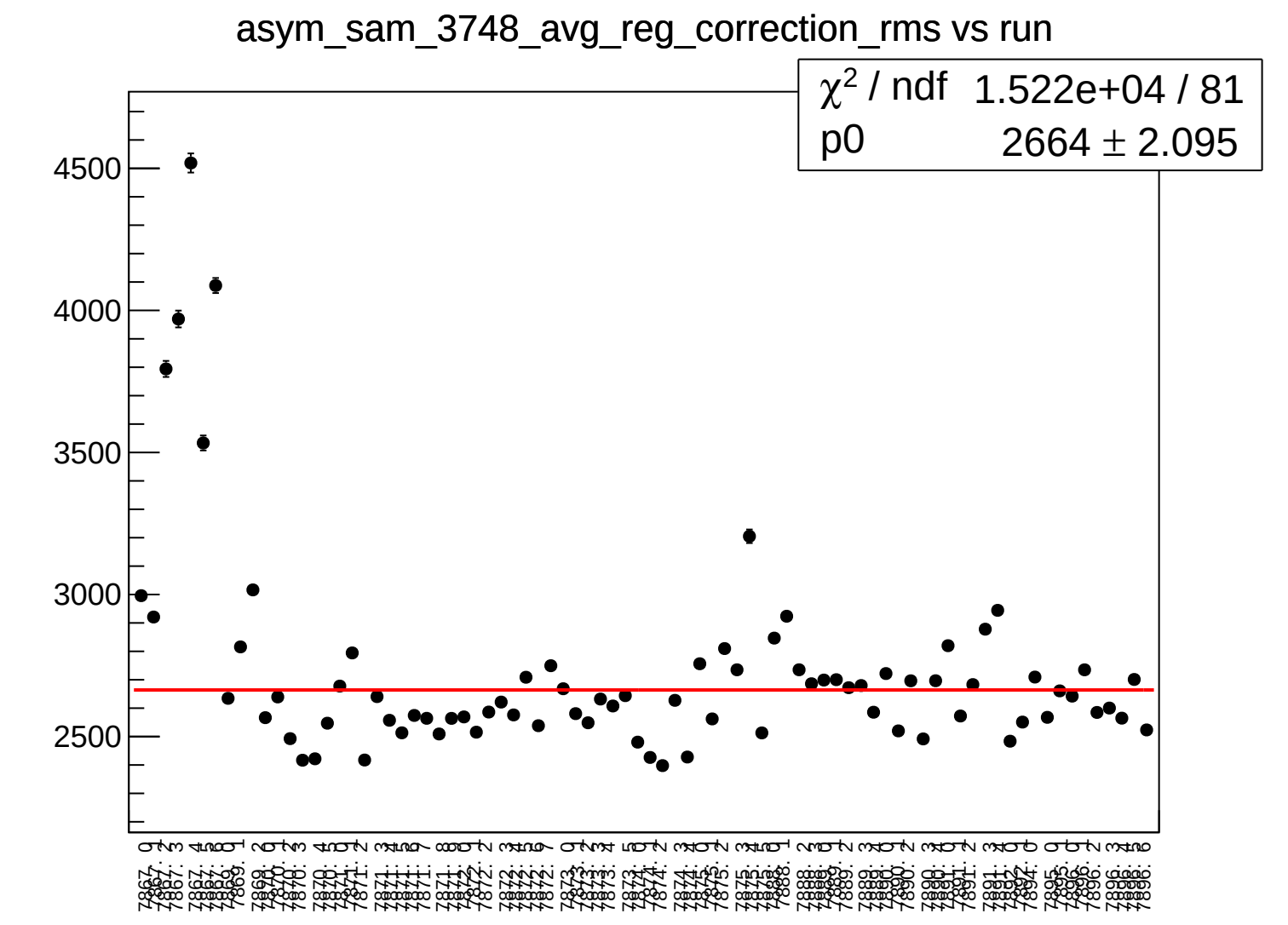

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.411e+05 / 81
p0 7.314e−11 ± 8.223e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

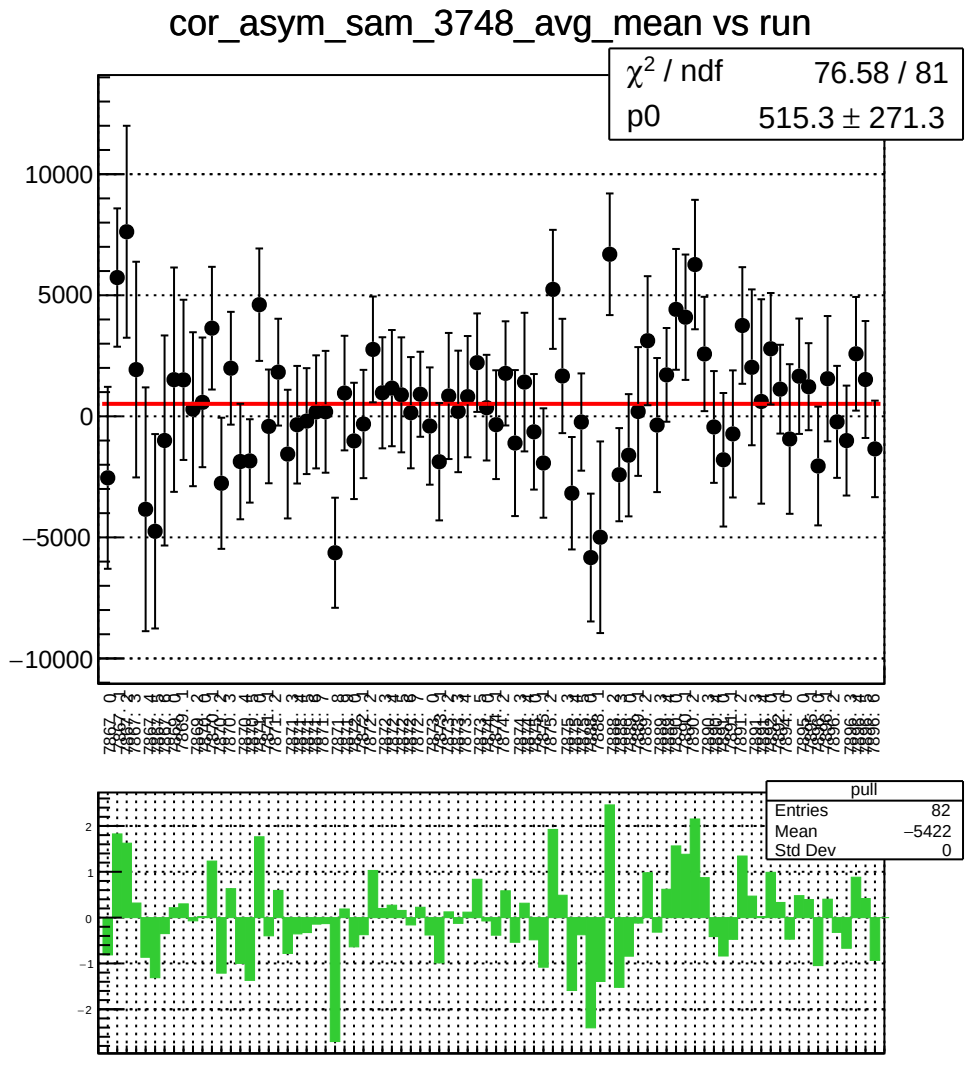

reg_asym_sam_3748_avg_mean vs run
χ^2 / ndf 76.57 / 81
p0 515.2 ± 271.3
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −5416
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.0003146
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

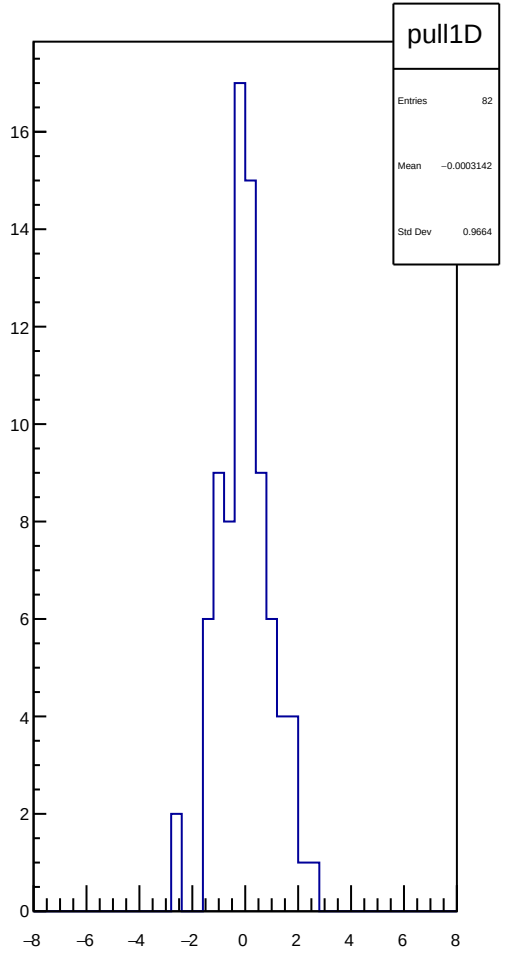

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 4.908e+04 / 81
p0 241.4 ± 0.1919
500
450
400
350
300
250
200

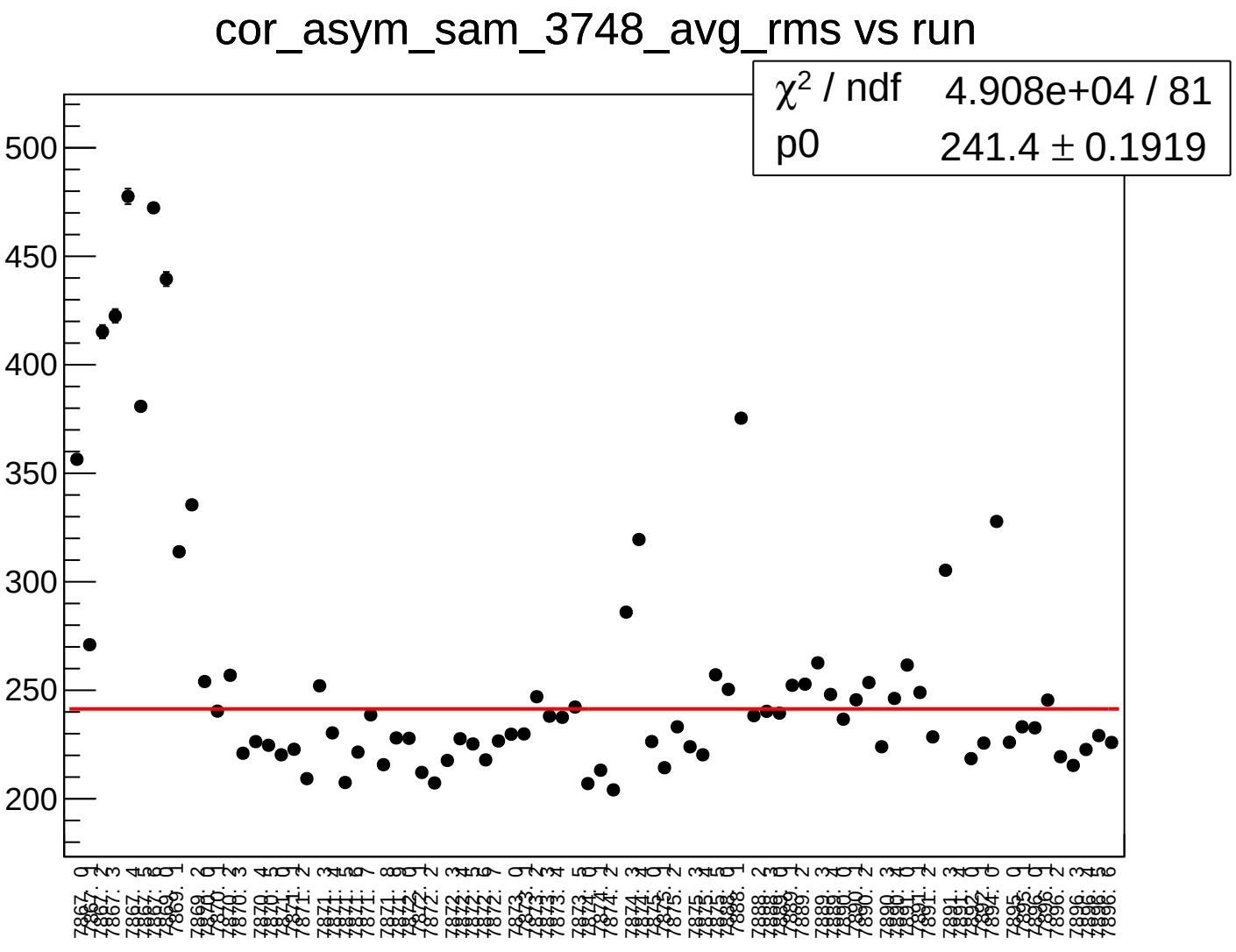

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.84 / 81
p0 −892.5 ± 2963
pull
Entries 82
Mean −128.1
Std Dev 0

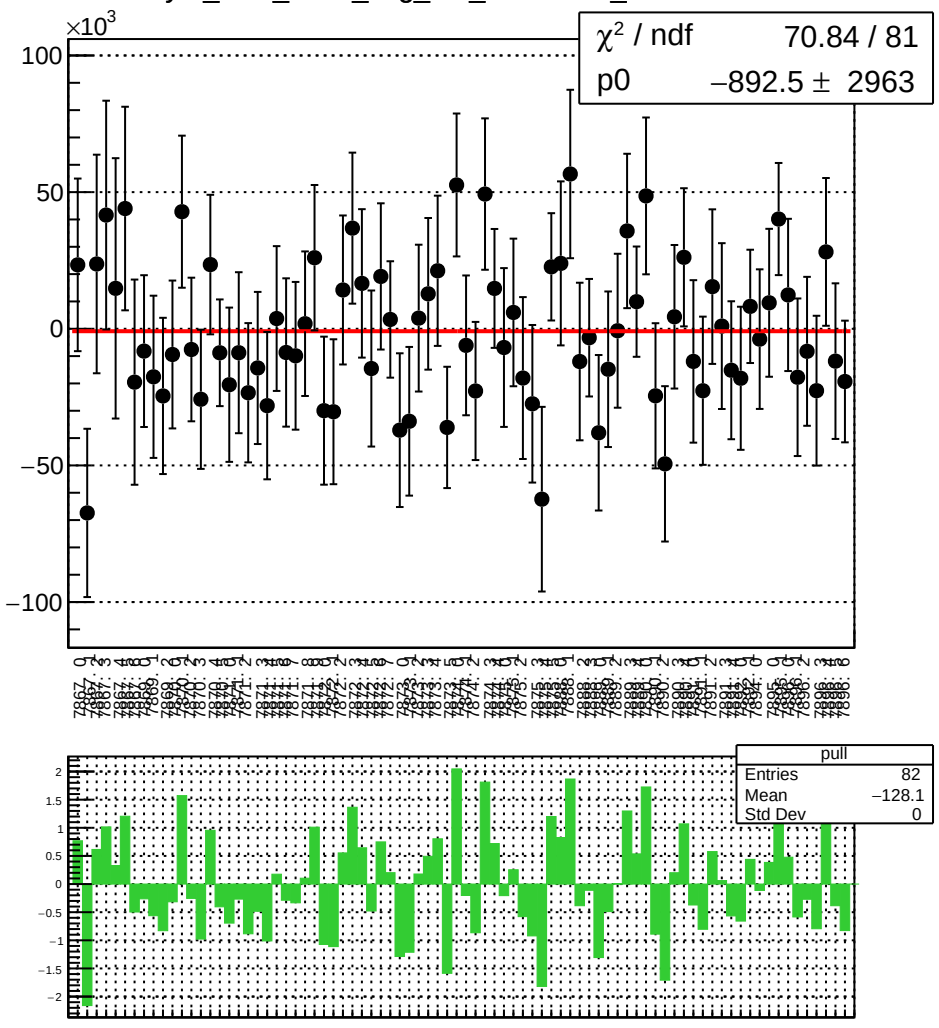

pull1D
Entries 82
Mean −0.006078
Std Dev 0.9294

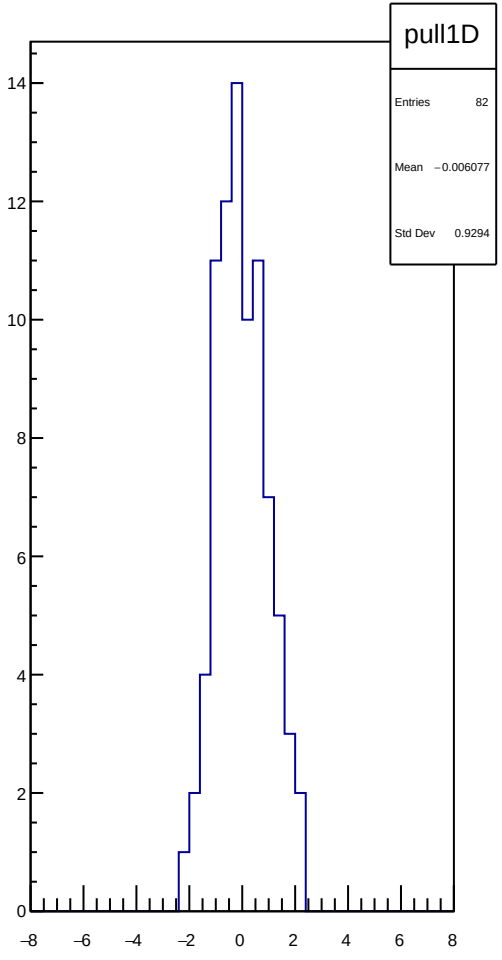

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.522e+04 / 81
p0 2664 ± 2.095
4500
4000
3500
3000
2500

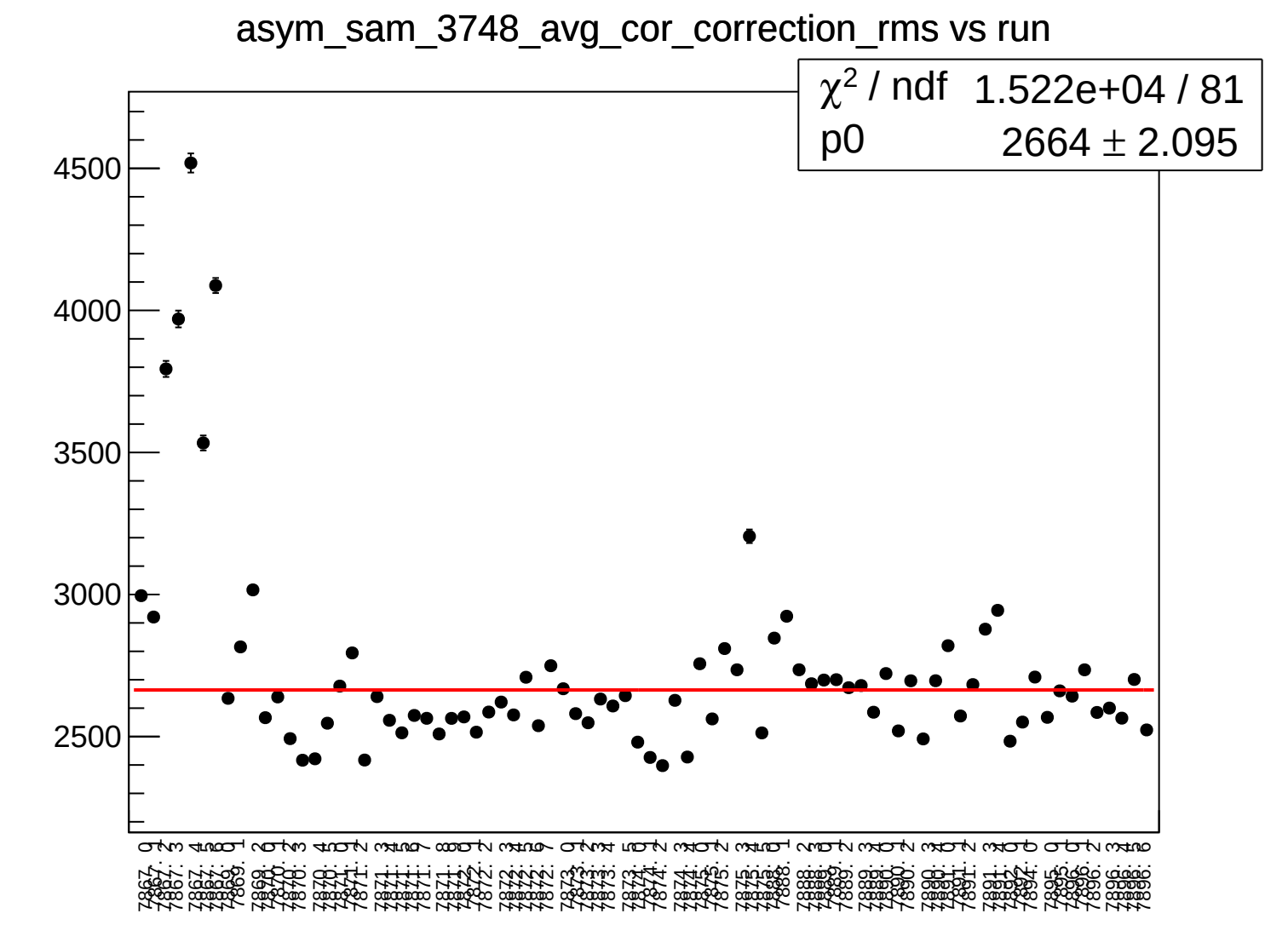

cor_asym_sam_3748_avg_mean vs run
χ^2 / ndf 76.58 / 81
p0 515.3 ± 271.3
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −5422
Std Dev 0
2
1
0
−1
−2

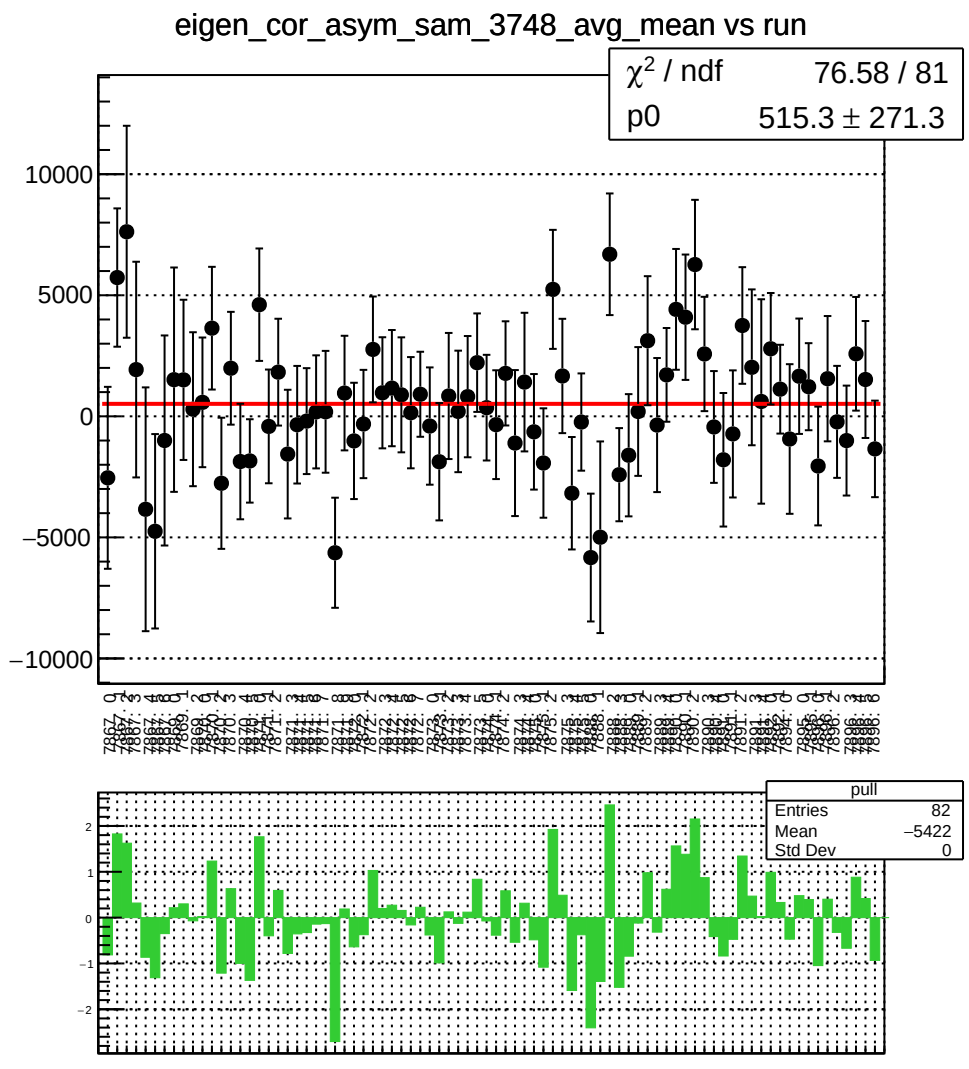

pull1D
Entries 82
Mean −0.0003142
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

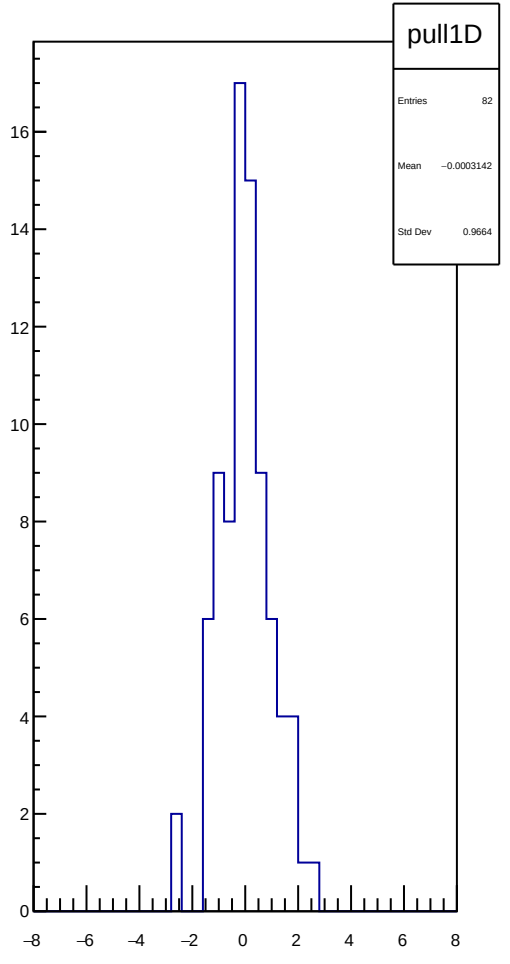

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 4.908e+04 / 81
p0 241.4 ± 0.1919
500
450
400
350
300
250
200

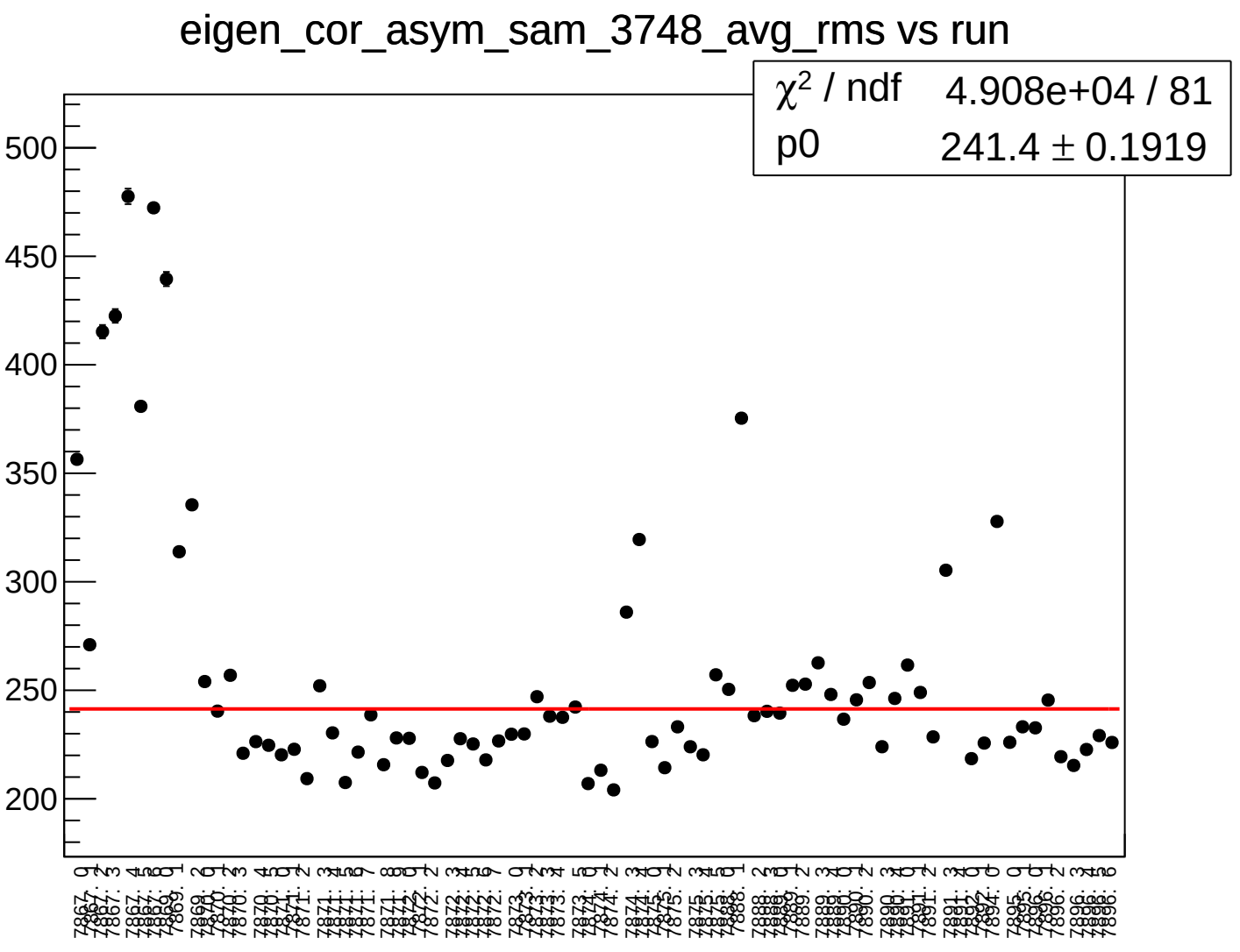

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.84 / 81
p0 −892.5 ± 2963
pull
Entries 82
Mean −128.1
Std Dev 0

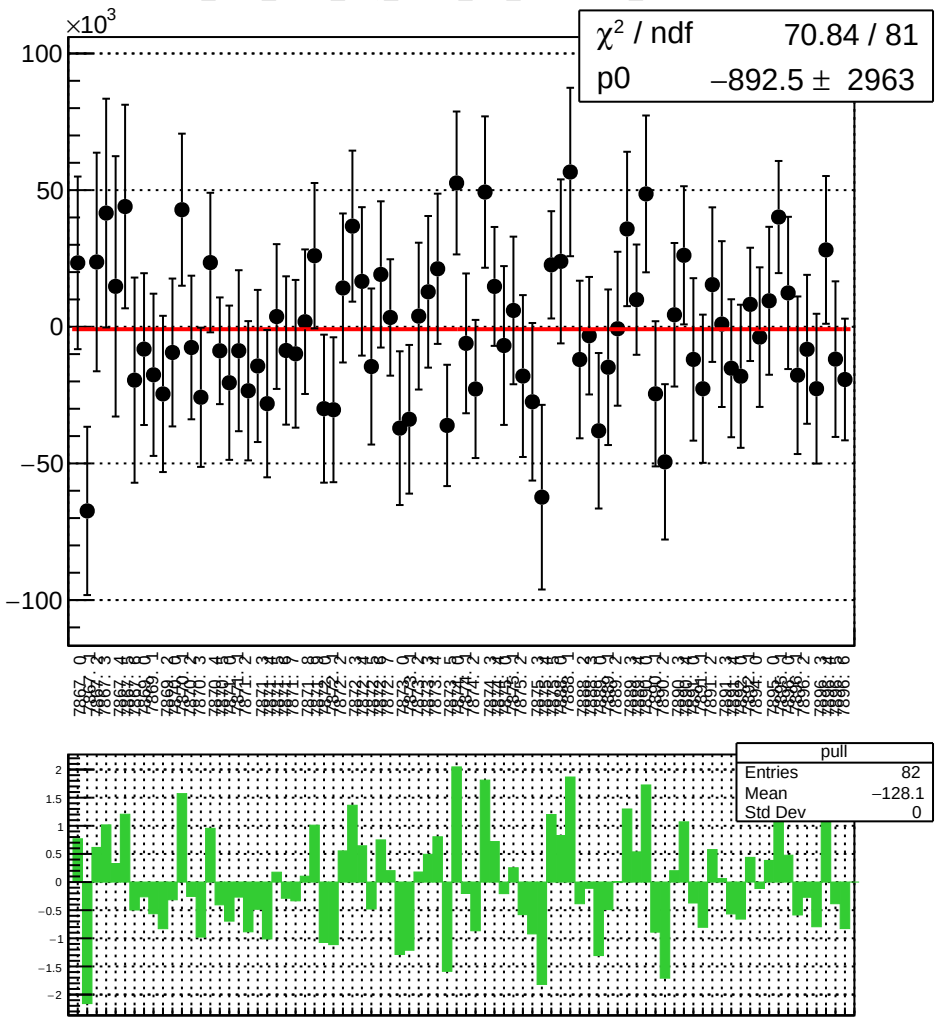

pull1D
Entries 82
Mean −0.006077
Std Dev 0.9294

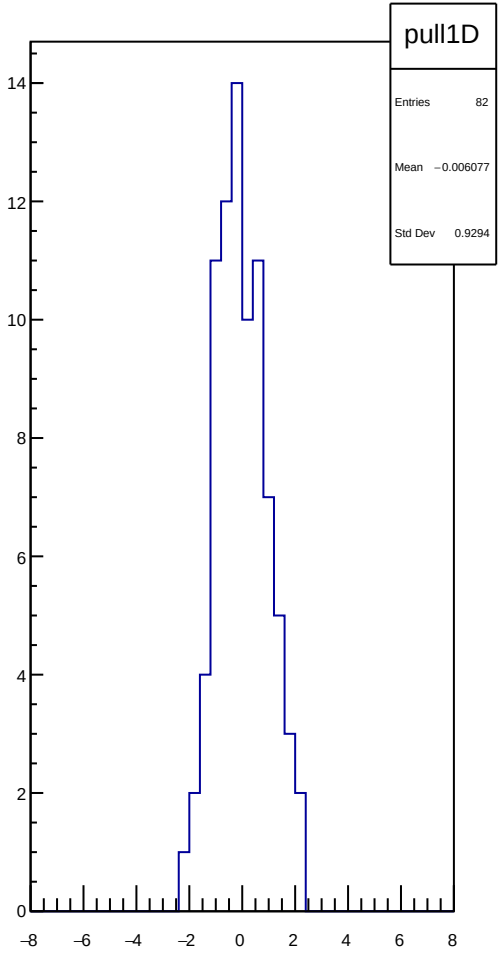

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.522e+04 / 81
p0 2664 ± 2.095
4500
4000
3500
3000
2500

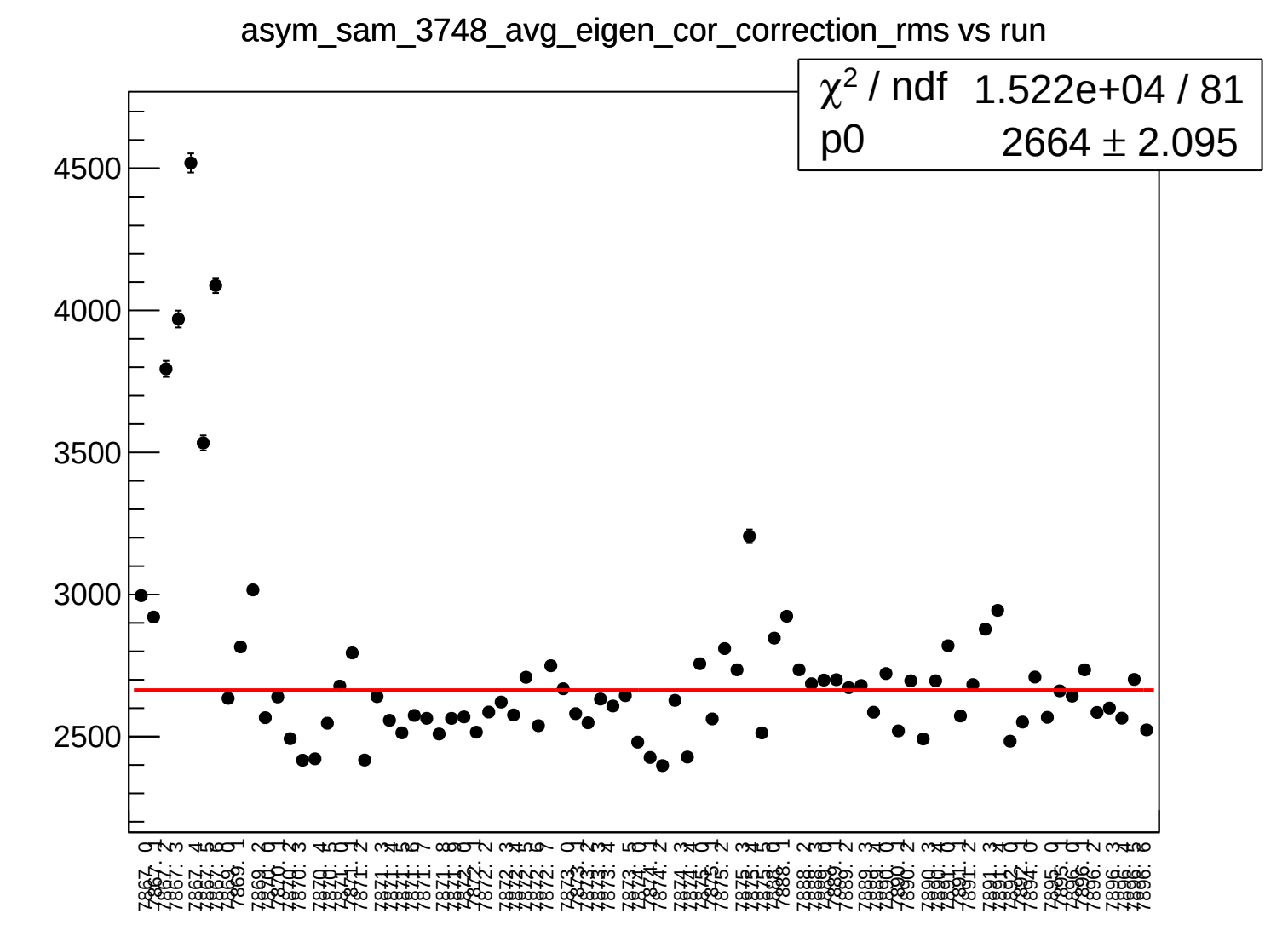

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 76.58 / 81
p0 515.3 ± 271.3
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −5422
Std Dev 0
2
1
0
−1
−2

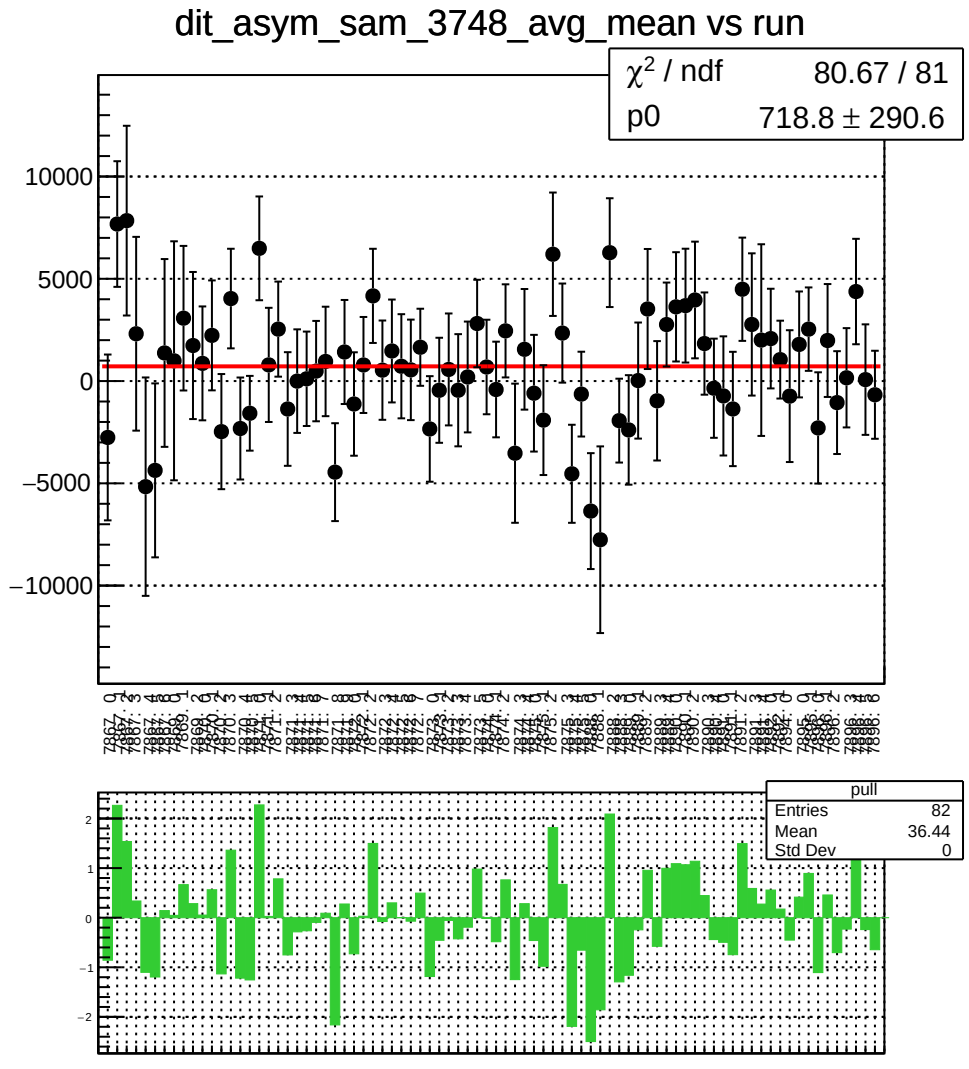

pull1D
Entries 82
Mean −0.0003142
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

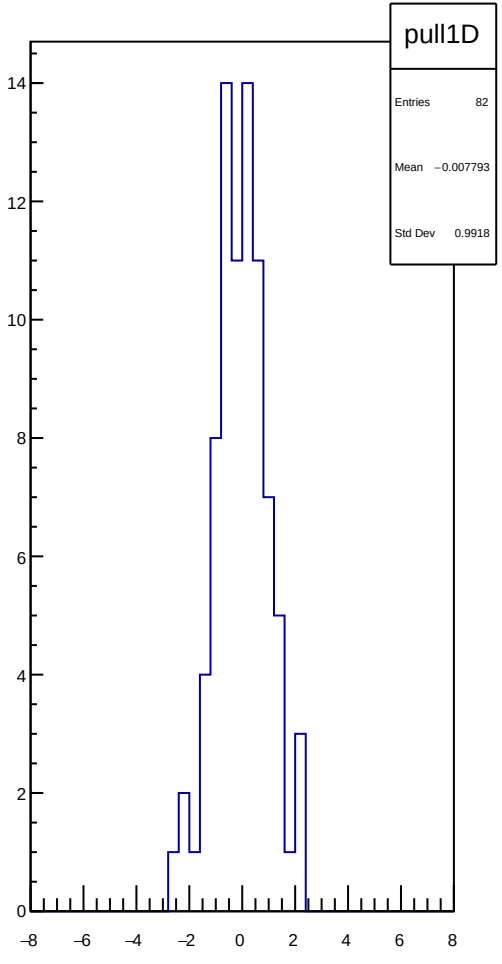

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 4.908e+04 / 81
p0 241.4 ± 0.1919
500
450
400
350
300
250
200

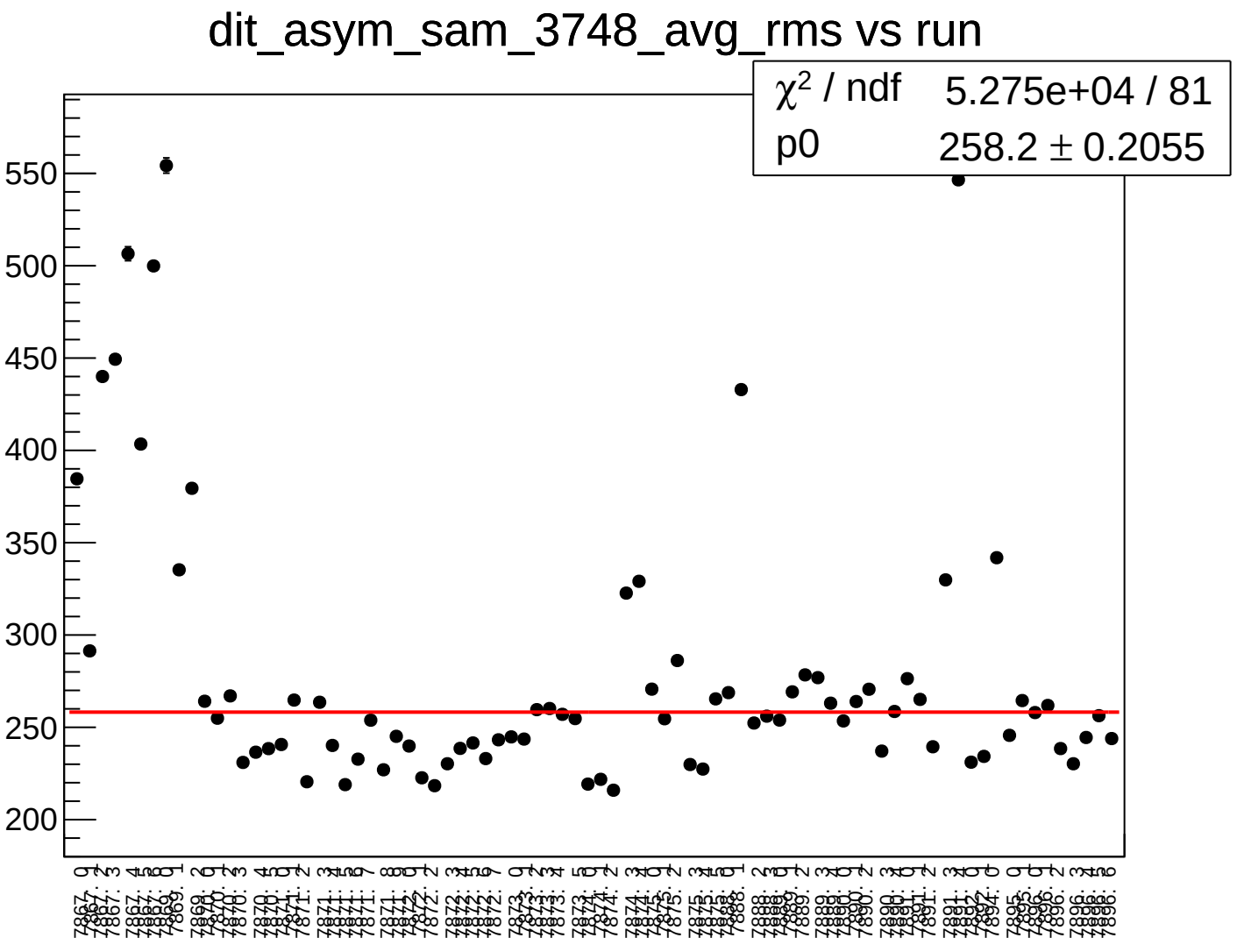

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.84 / 81
p0 −892.5 ± 2963
pull
Entries 82
Mean −128.1
Std Dev 0

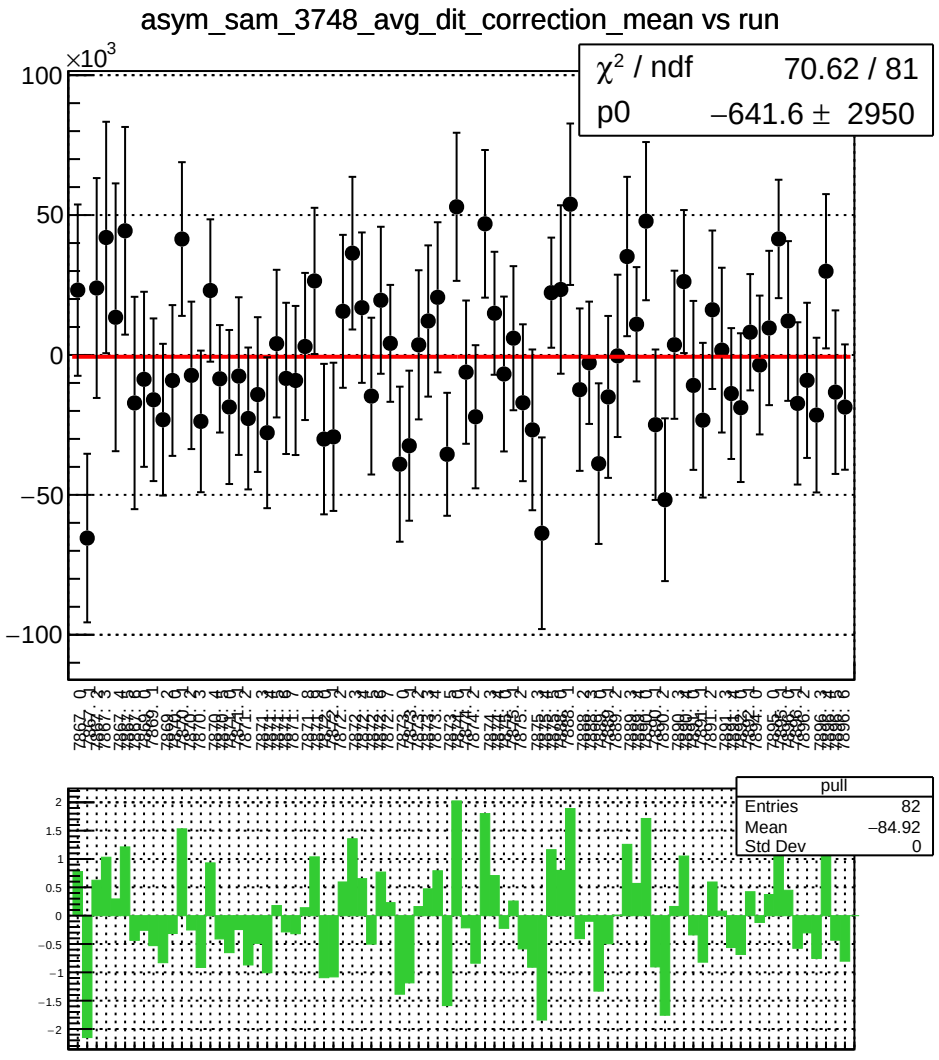

pull1D
Entries 82
Mean −0.006077
Std Dev 0.9294

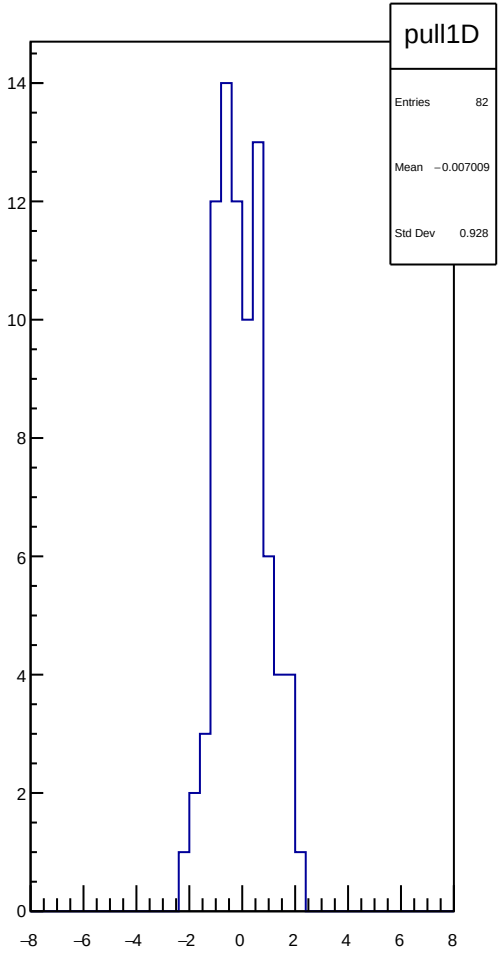

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.522e+04 / 81
p0 2664 ± 2.095
4500
4000
3500
3000
2500

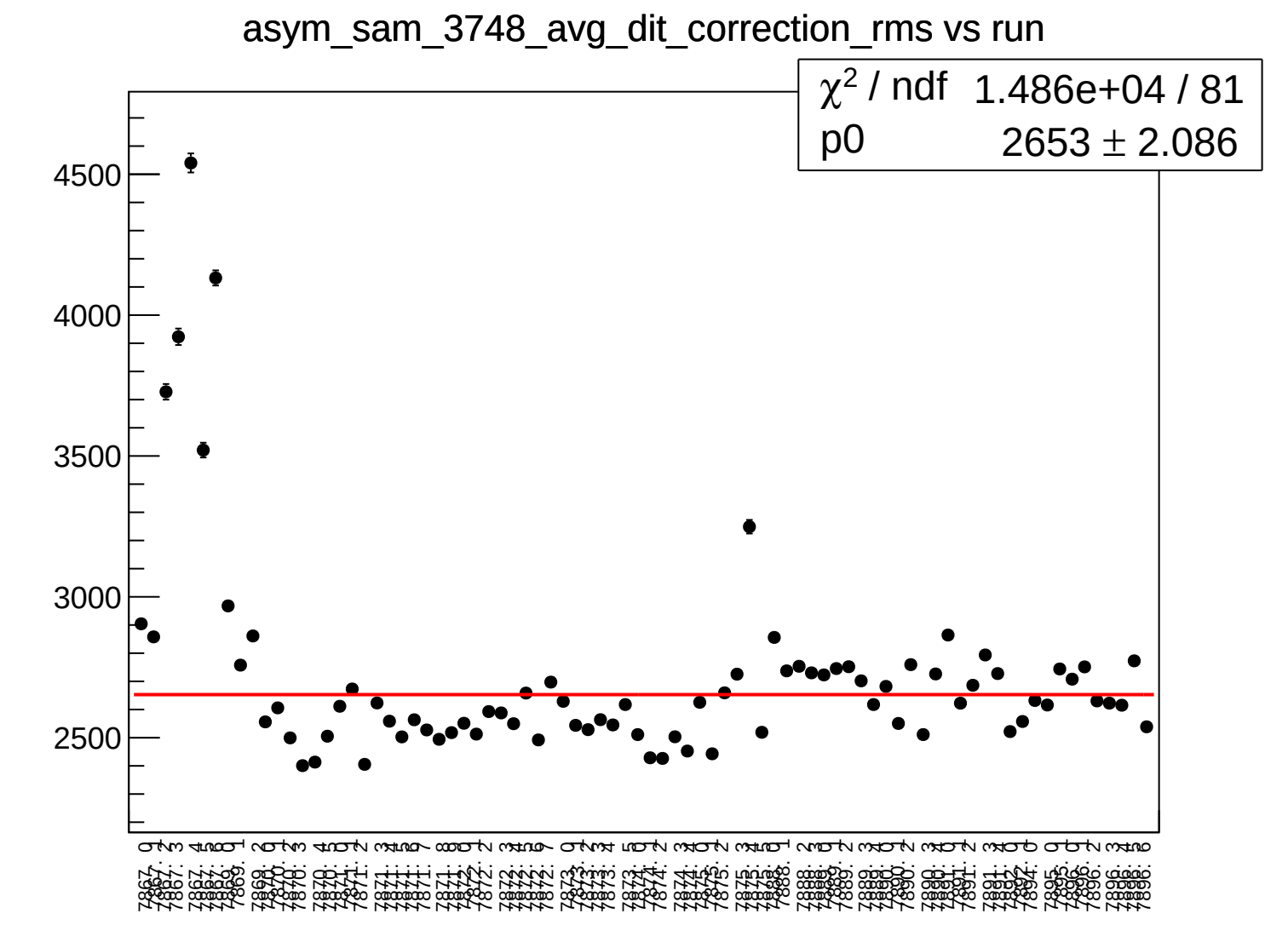

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 80.67 / 81
p0 718.8 ± 290.6
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 36.44
Std Dev 0
2
1
0
−1
−2

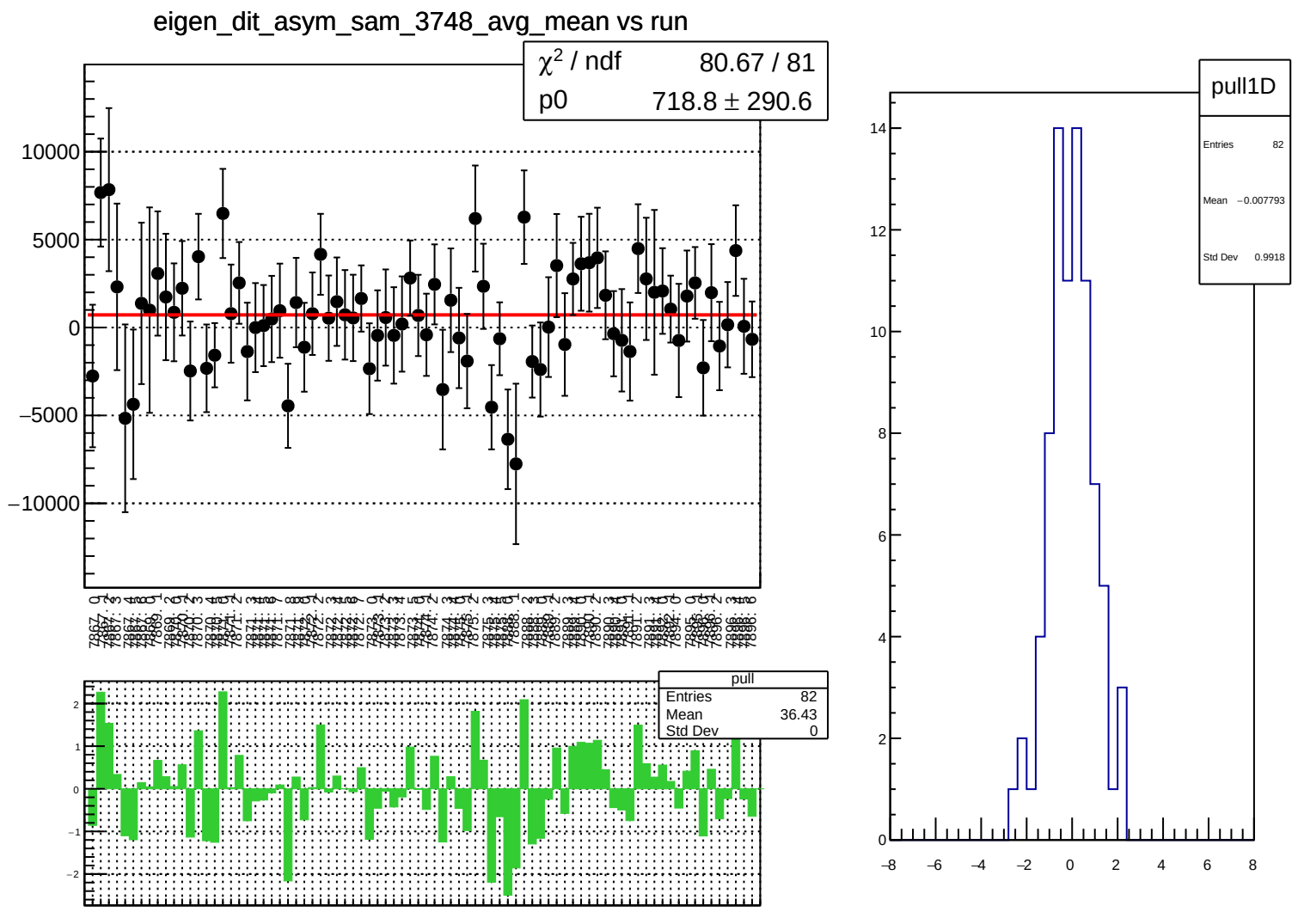

pull1D
Entries 82
Mean −0.007793
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

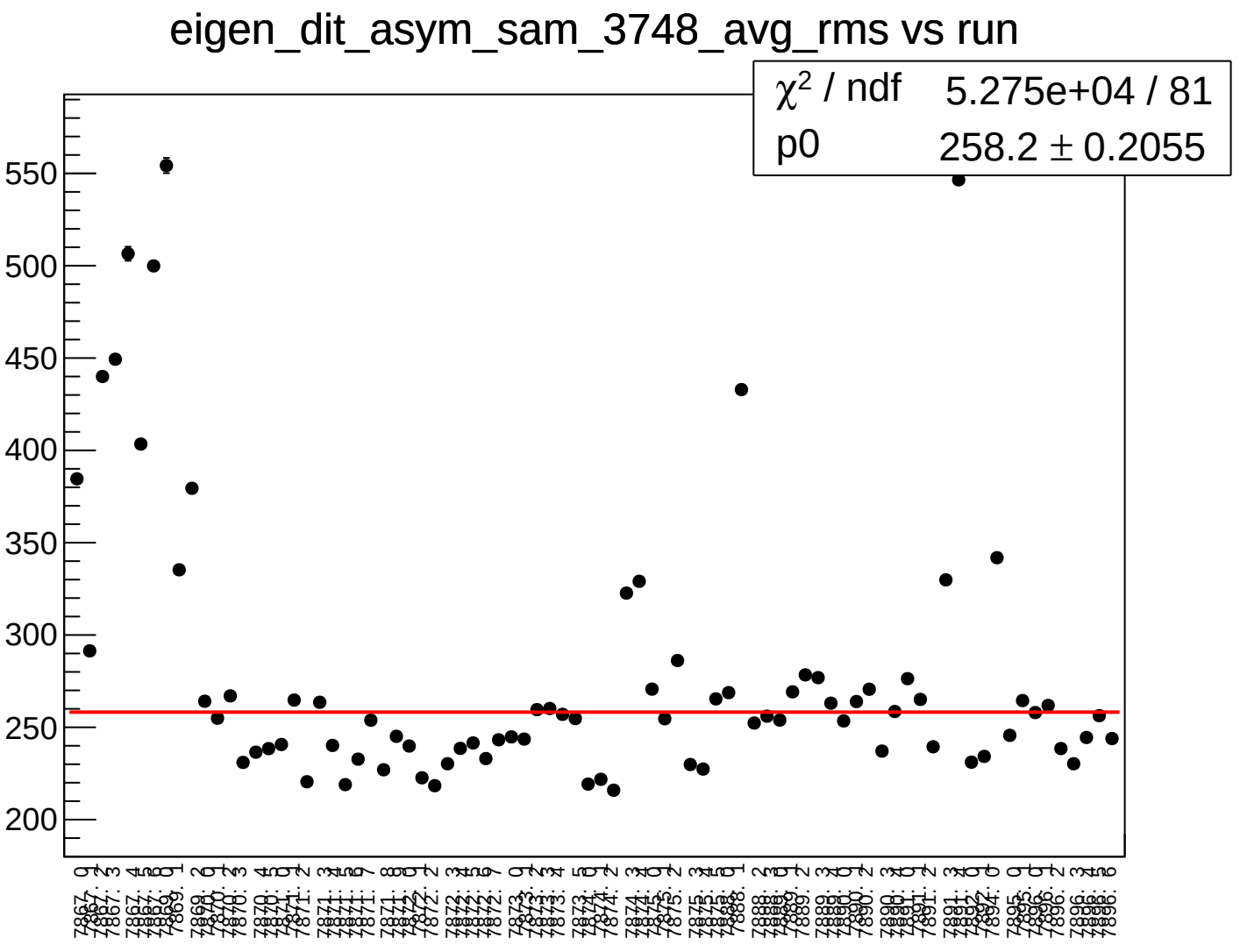

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5.275e+04 / 81
p0 258.2 ± 0.2055
550
500
450
400
350
300
250
200

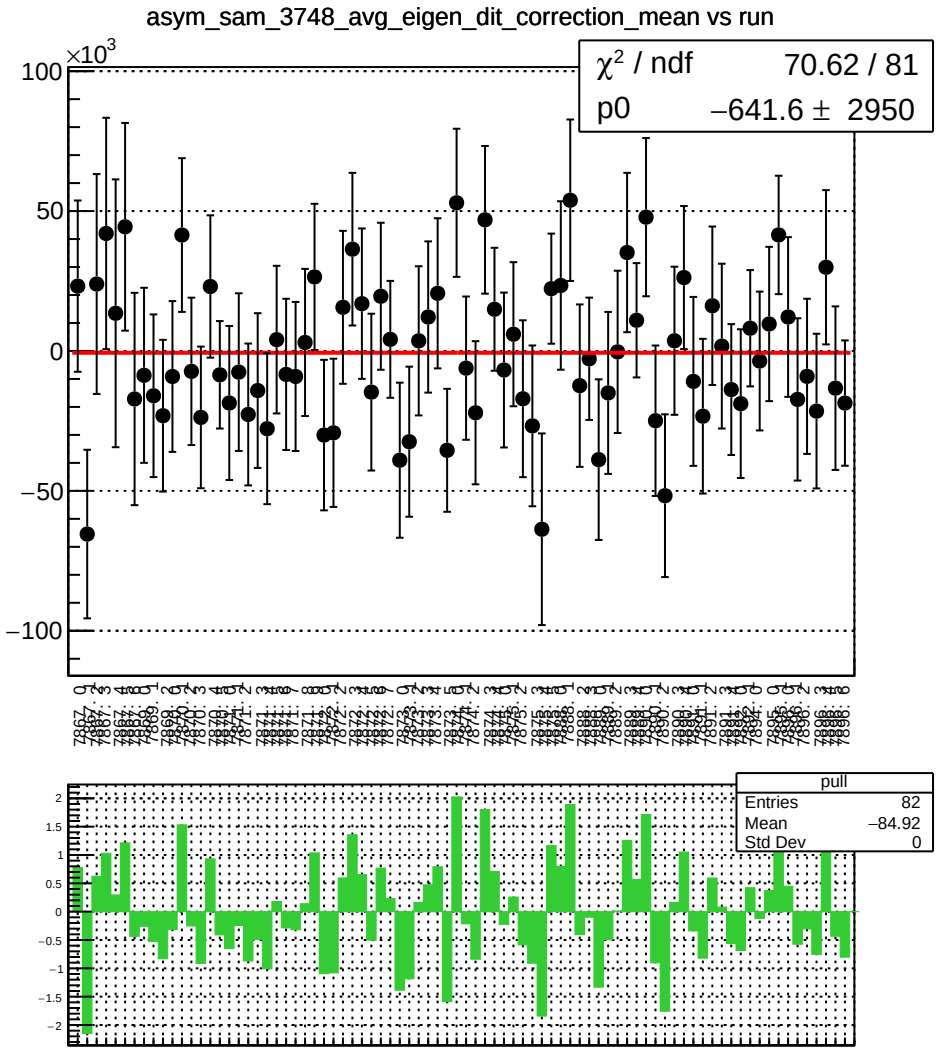

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 70.62 / 81
p0 −641.6 ± 2950
pull
Entries 82
Mean −84.92
Std Dev 0

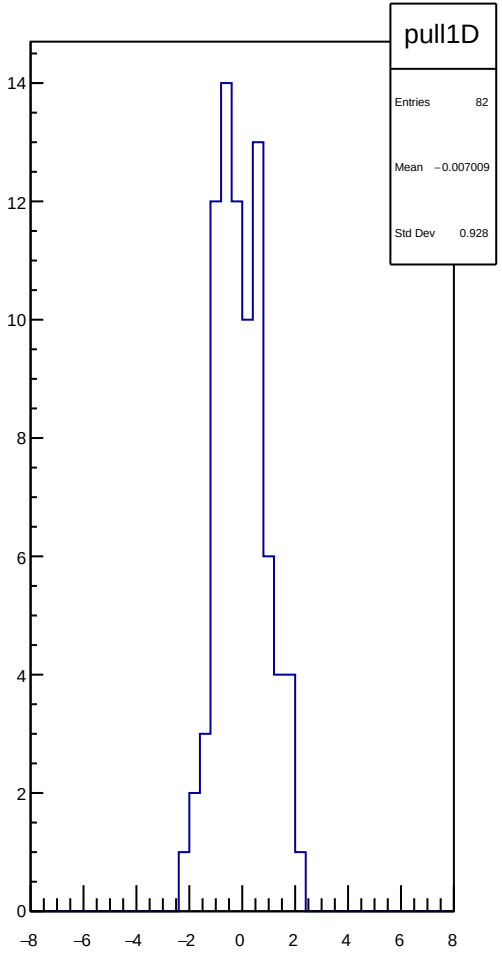

pull1D
Entries 82
Mean −0.007009
Std Dev 0.928

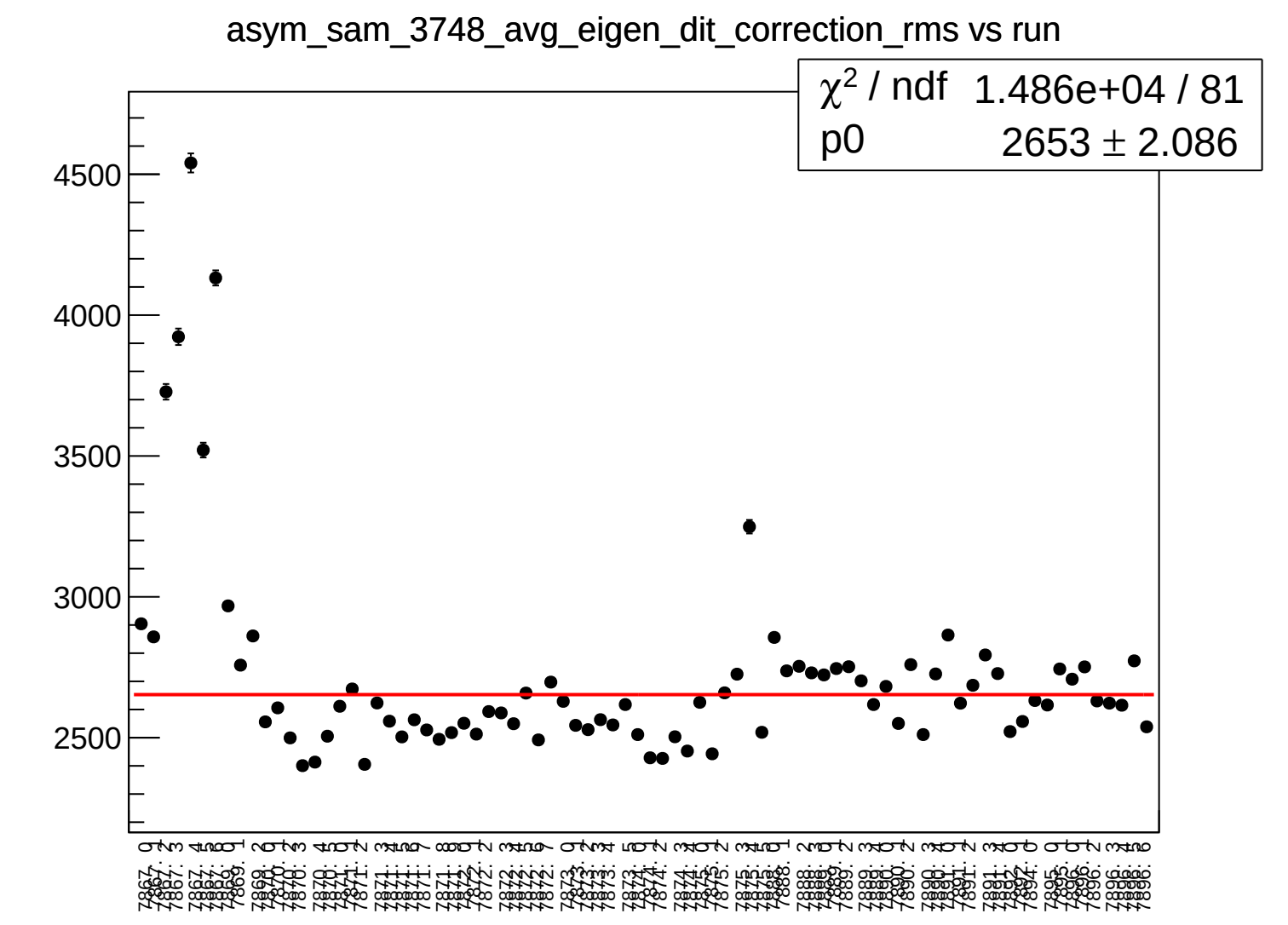

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.486e+04 / 81
p0 2653 ± 2.086
4500
4000
3500
3000
2500

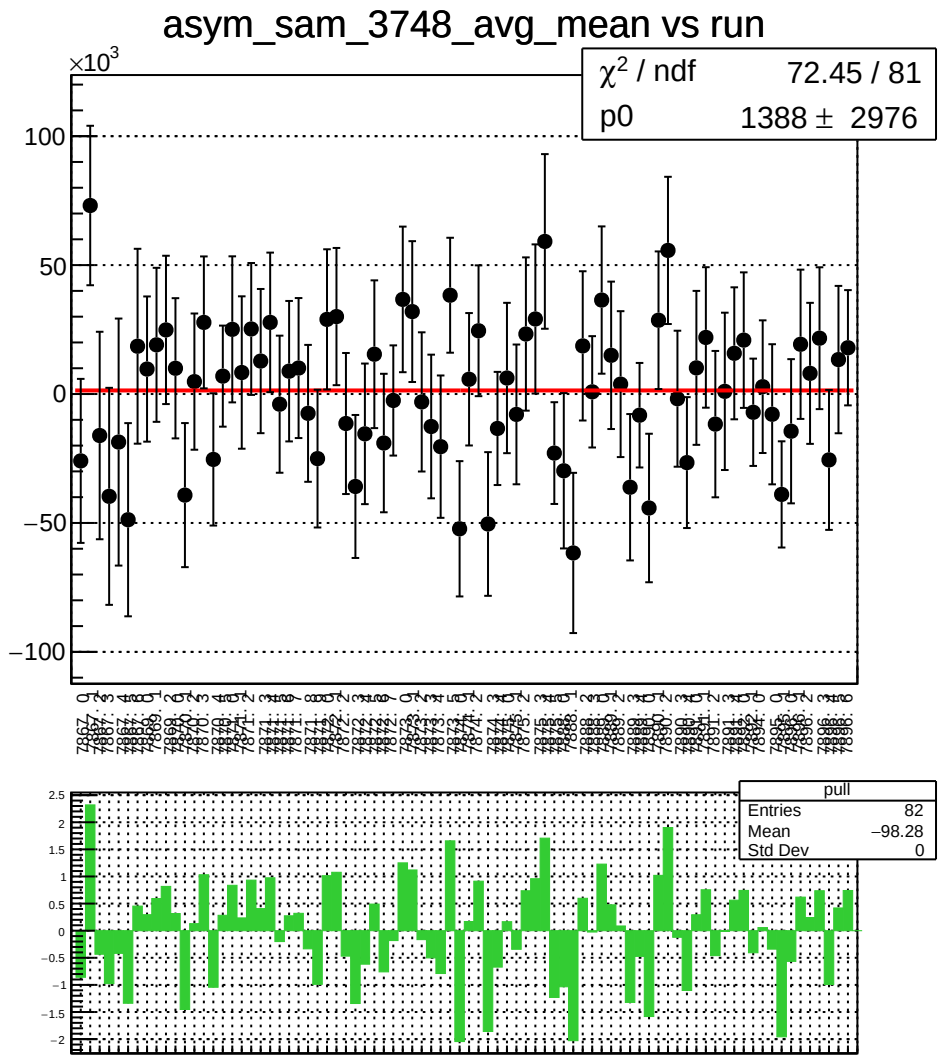

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 80.67 / 81
p0 718.8 ± 290.6
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 36.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.007793
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

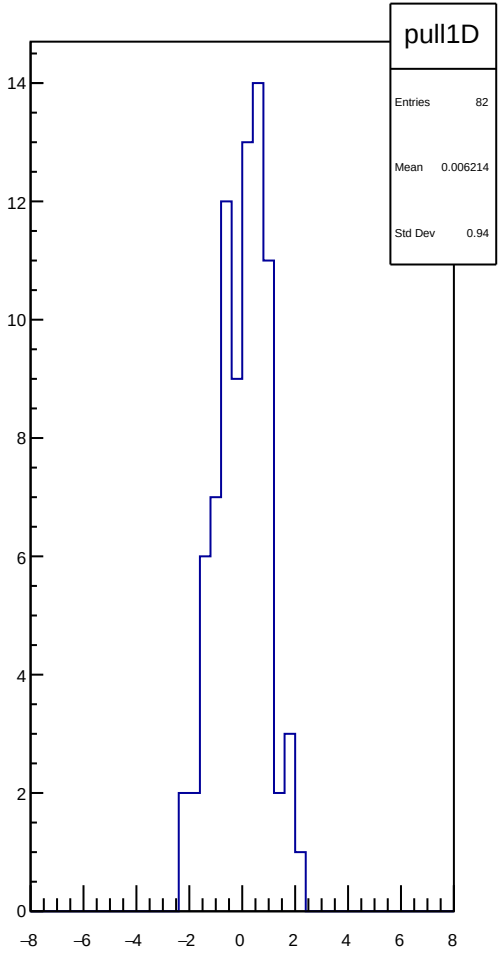

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5.275e+04 / 81
p0 258.2 ± 0.2055
550
500
450
400
350
300
250
200

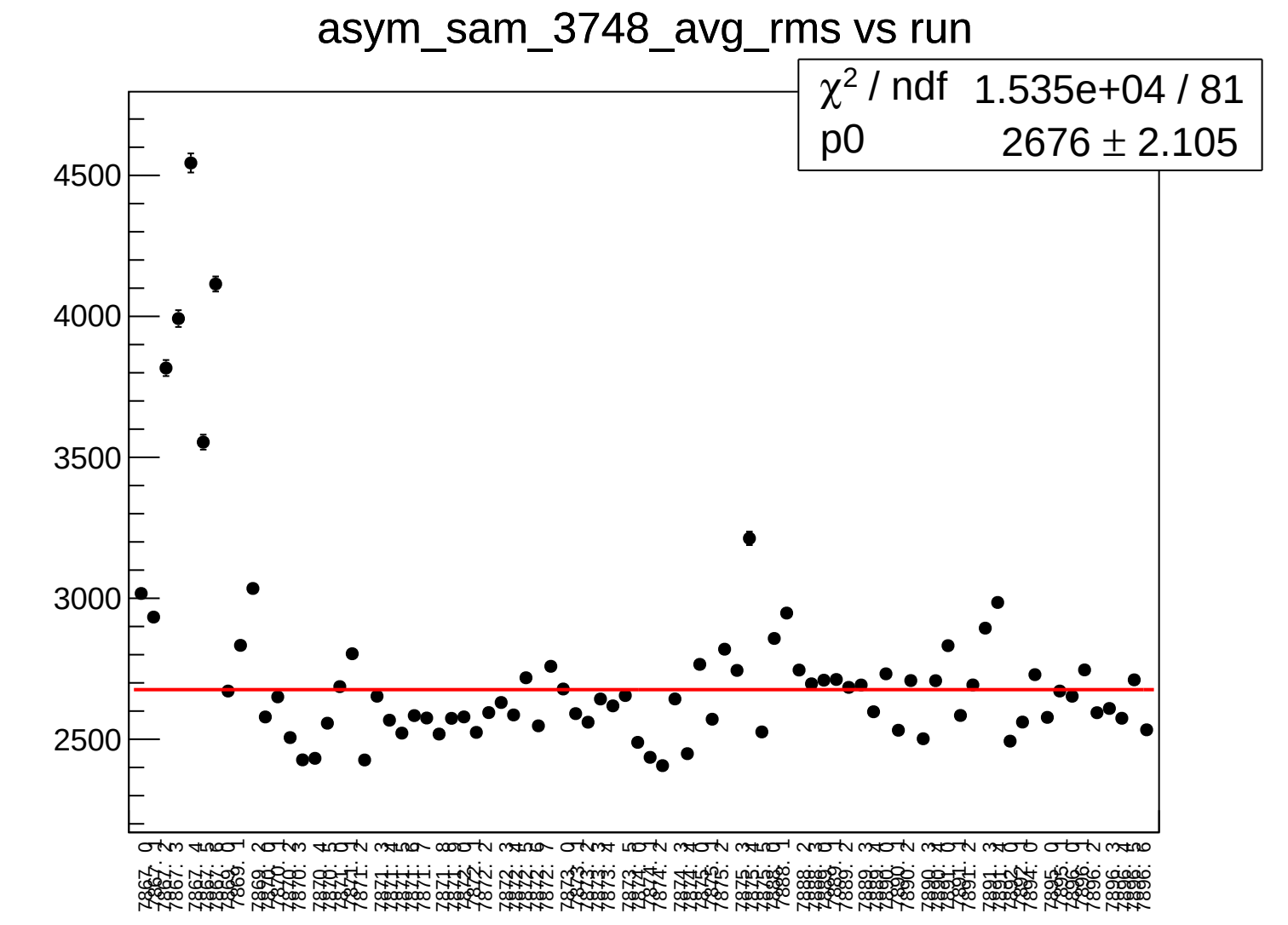

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.62 / 81
p0 −641.6 ± 2950
pull
Entries 82
Mean −84.92
Std Dev 0

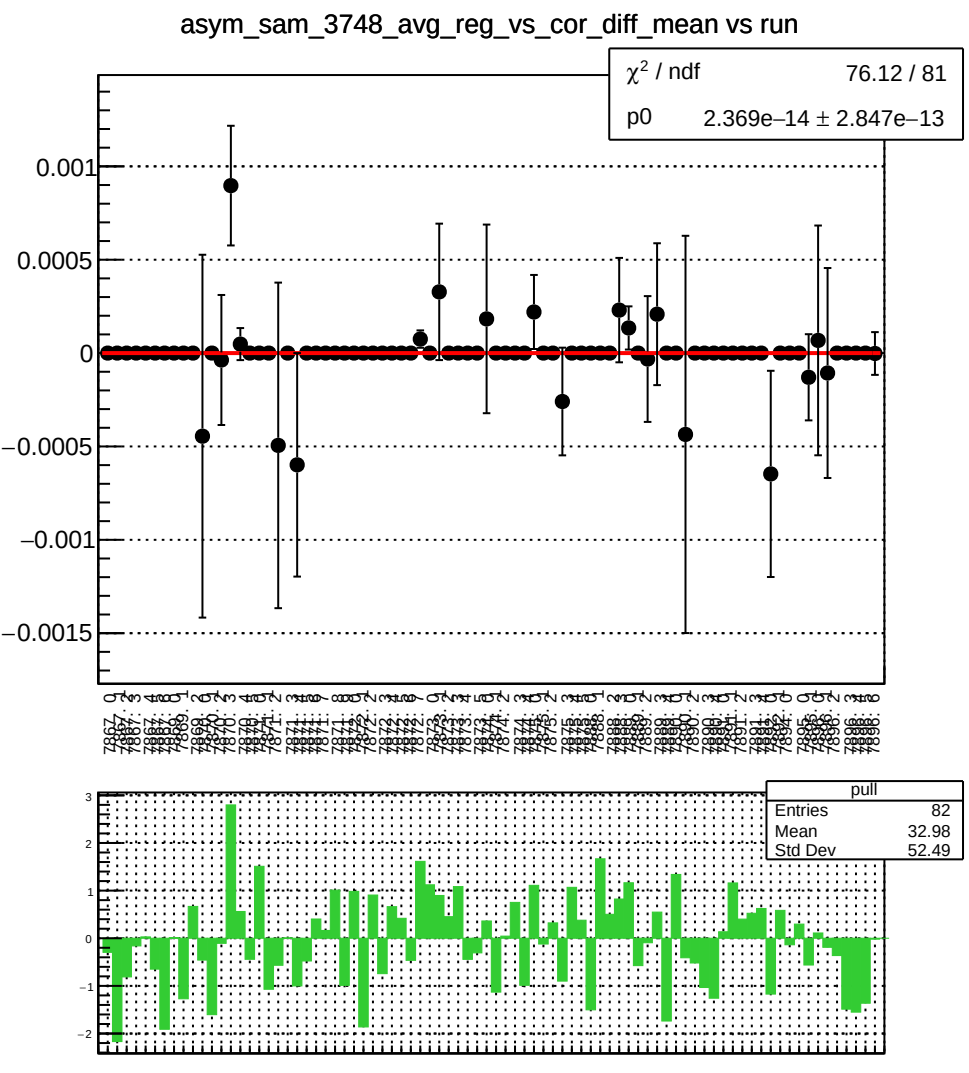

pull1D
Entries 82
Mean −0.007009
Std Dev 0.928

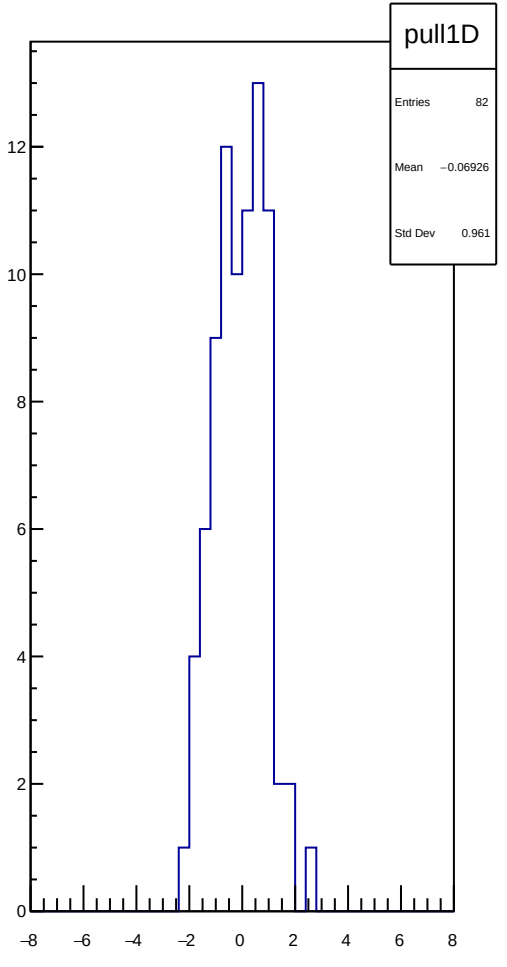

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.486e+04 / 81
p0 2653 ± 2.086
4500
4000
3500
3000
2500

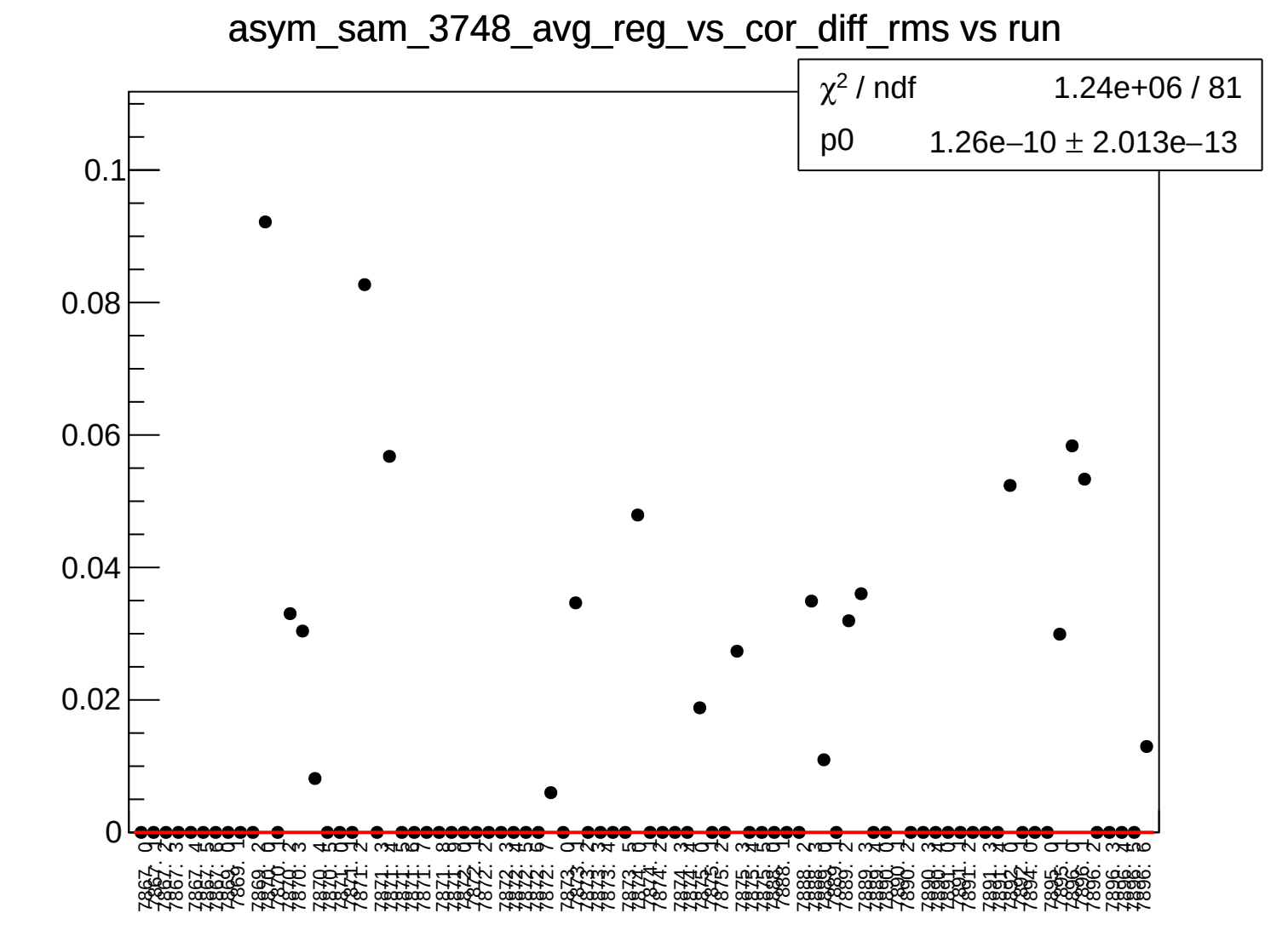

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 72.45 / 81
p0 1388 ± 2976
100
50
0
−50
−100
pull
Entries 82
Mean −98.28
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

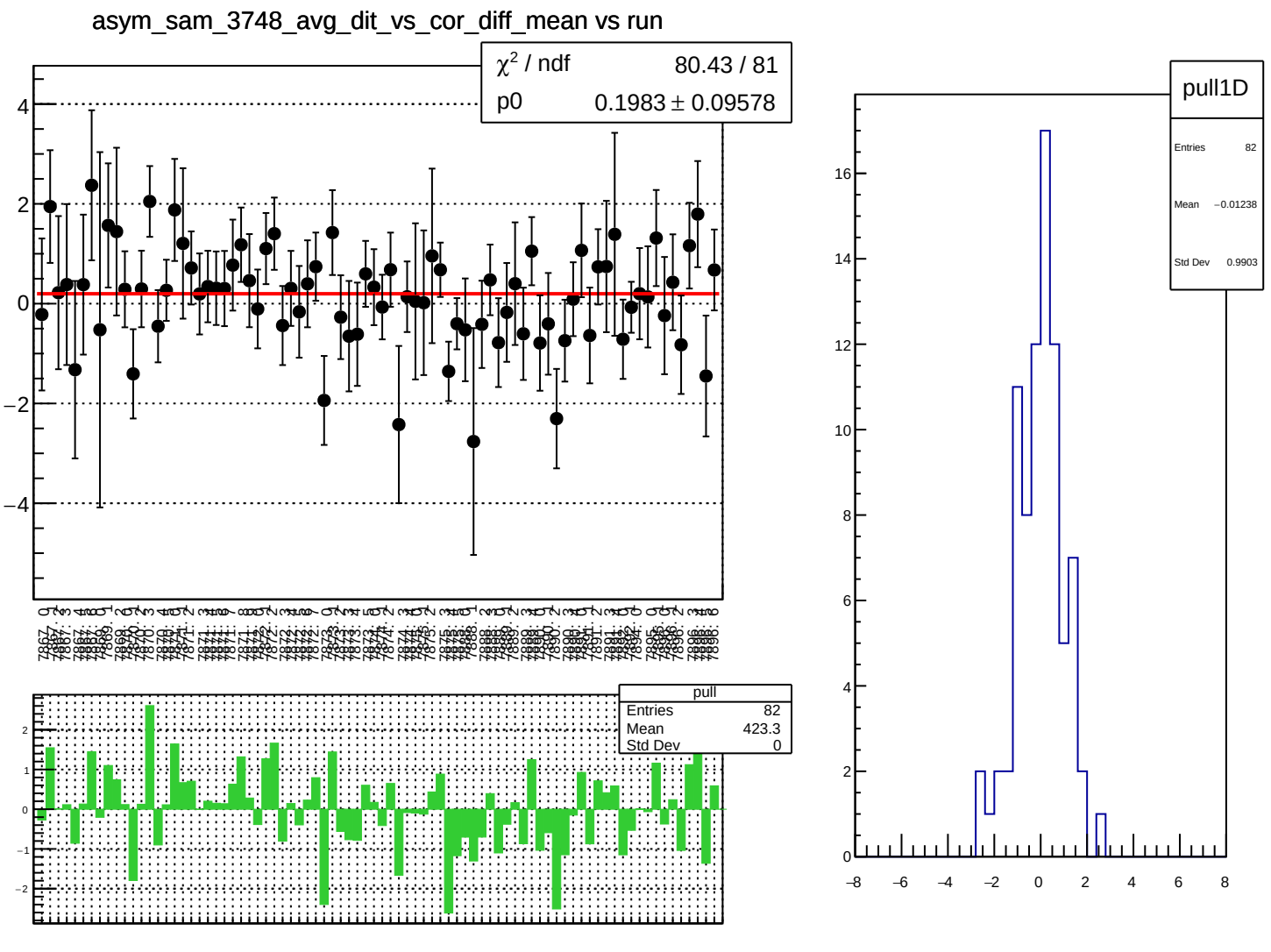

pull1D
Entries 82
Mean 0.006214
Std Dev 0.94
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

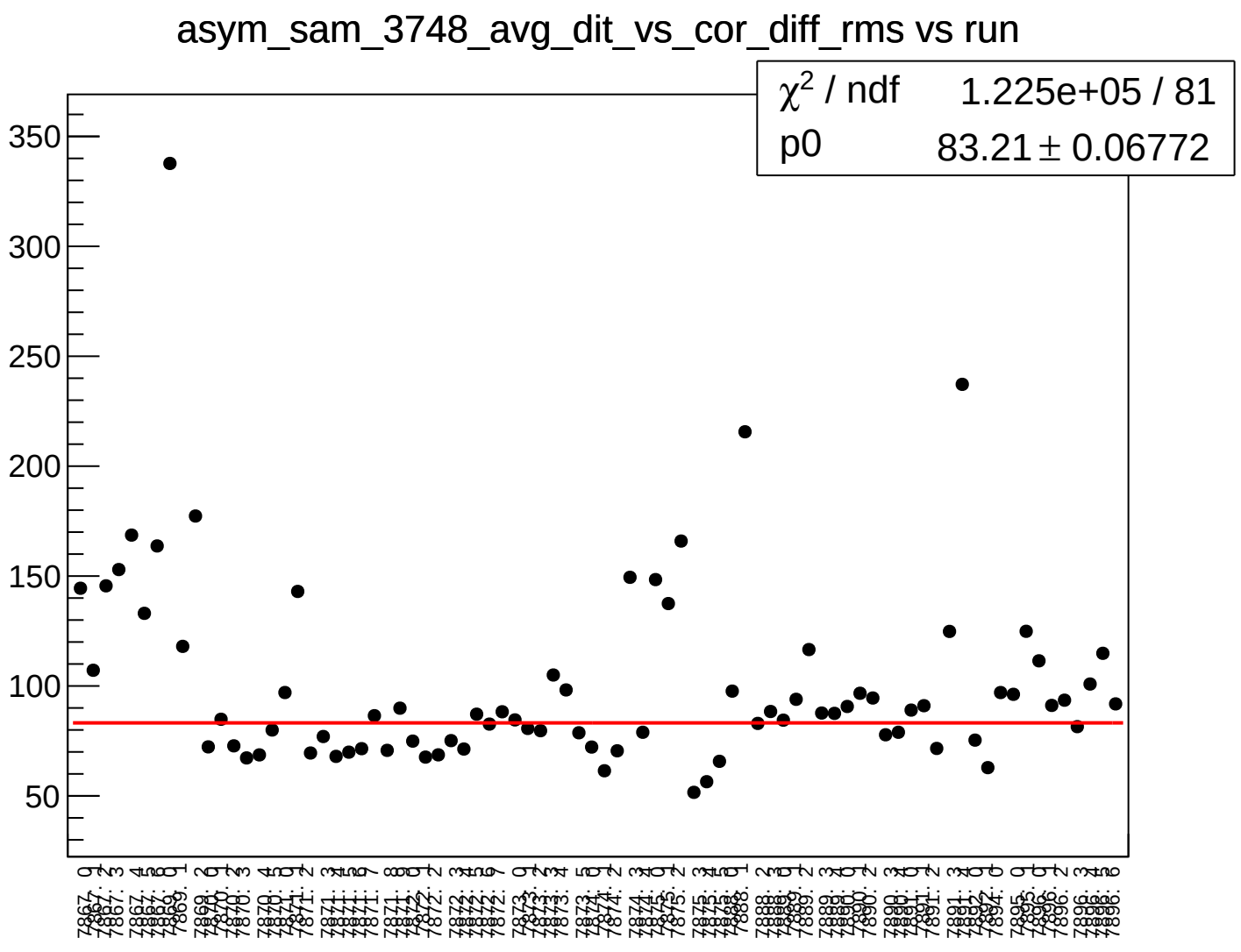

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.535e+04 / 81
p0 2676 ± 2.105
4500
4000
3500
3000
2500

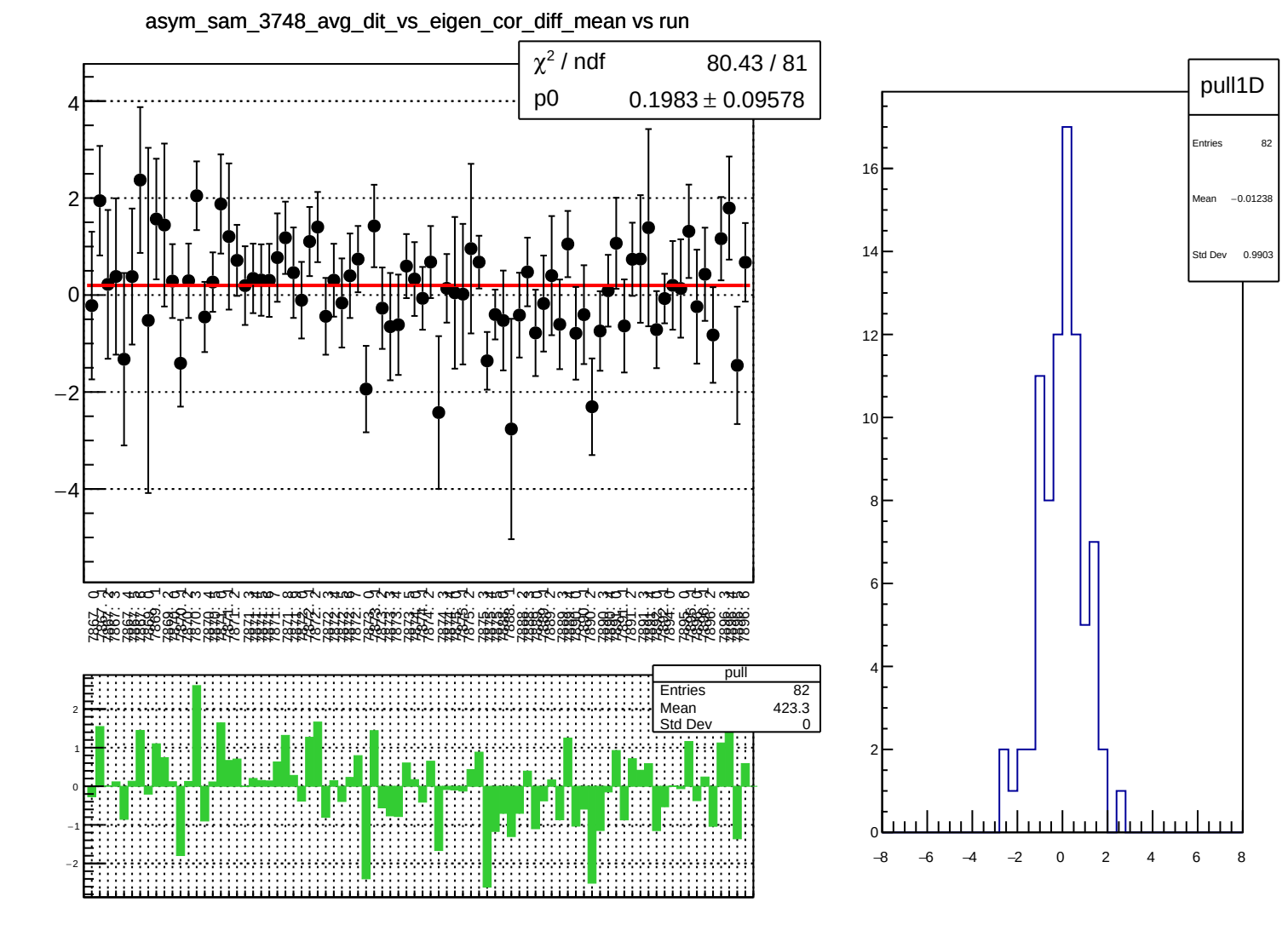

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.12 / 81
p0 2.369e−14 ± 2.847e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 32.98
Std Dev 52.49
3
2
1
0
−1
−2

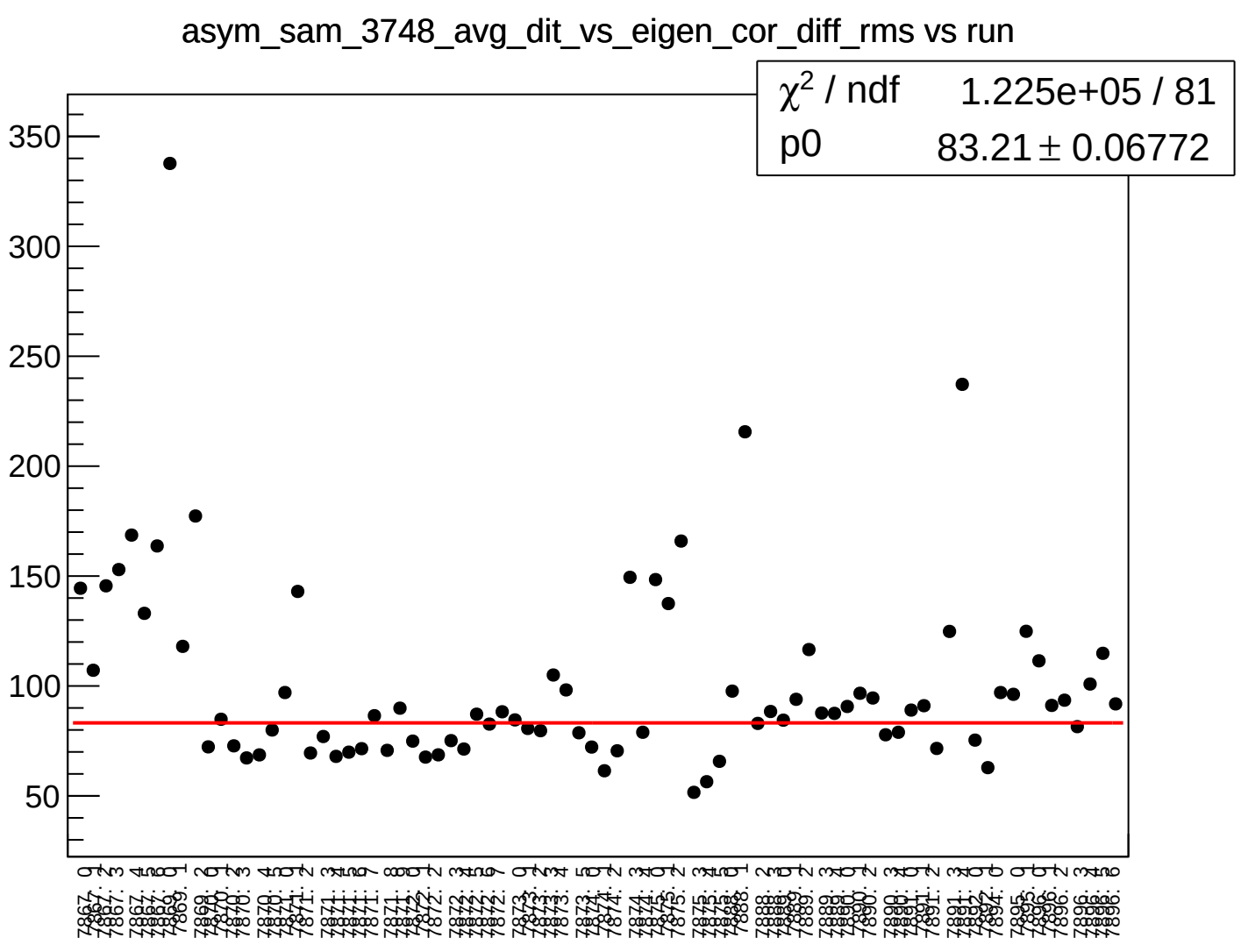

pull1D
Entries 82
Mean −0.06926
Std Dev 0.961
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

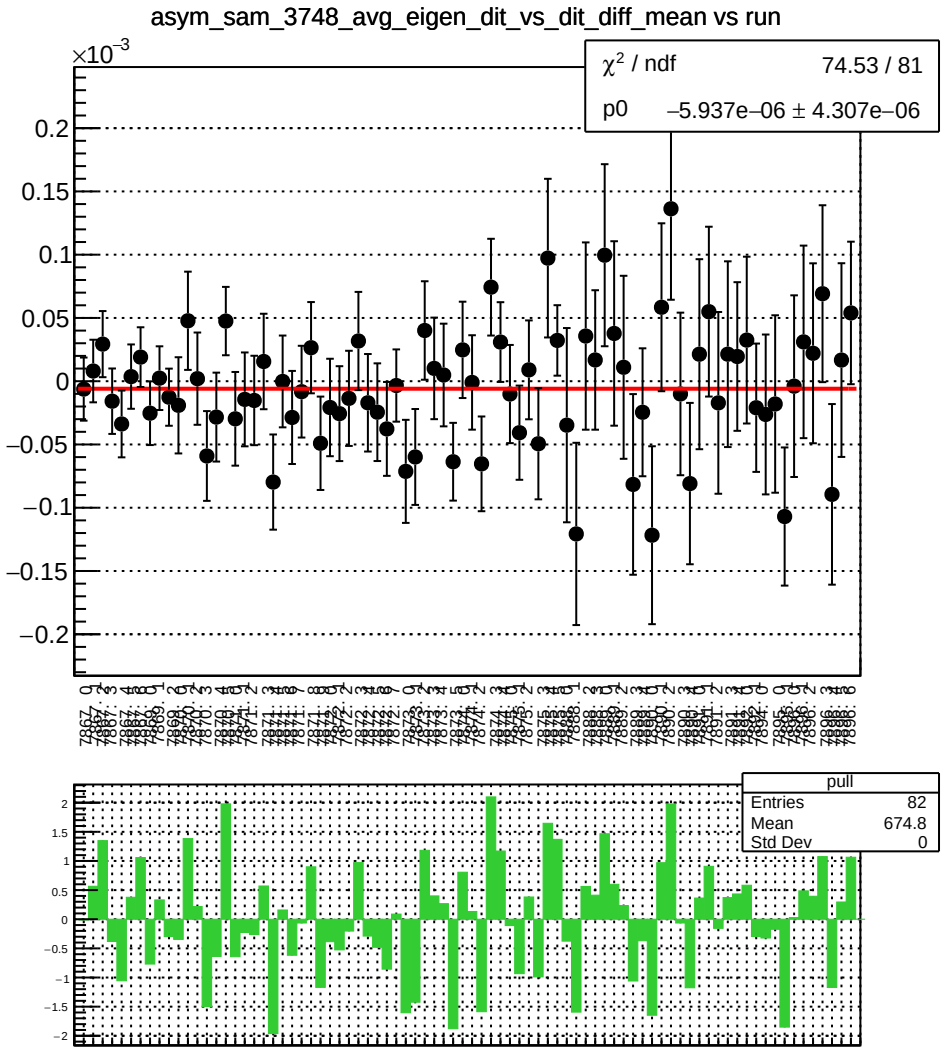

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.24e+06 / 81
p0 1.26e−10 ± 2.013e−13
0.1
0.08
0.06
0.04
0.02
0

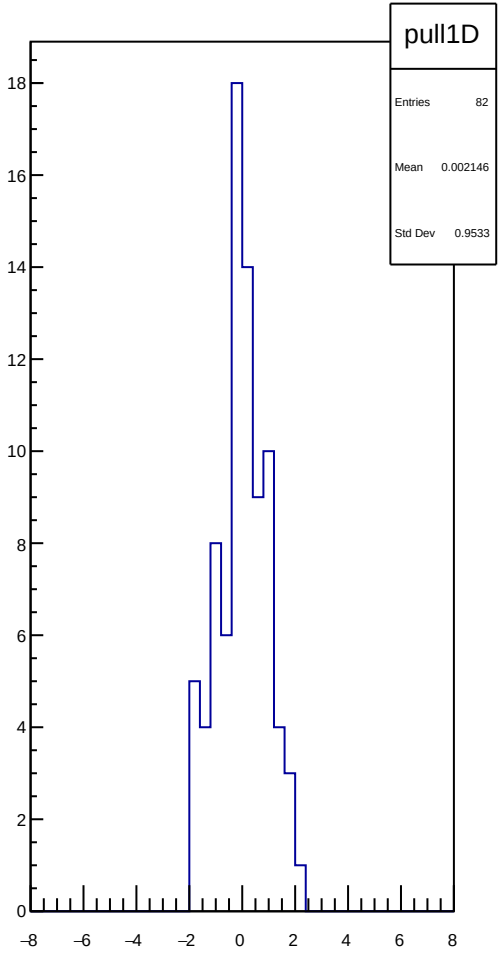

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.43 / 81
p0 0.1983 ± 0.09578
pull
Entries 82
Mean 423.3
Std Dev 0
pull1D
Entries 82
Mean −0.01238
Std Dev 0.9903

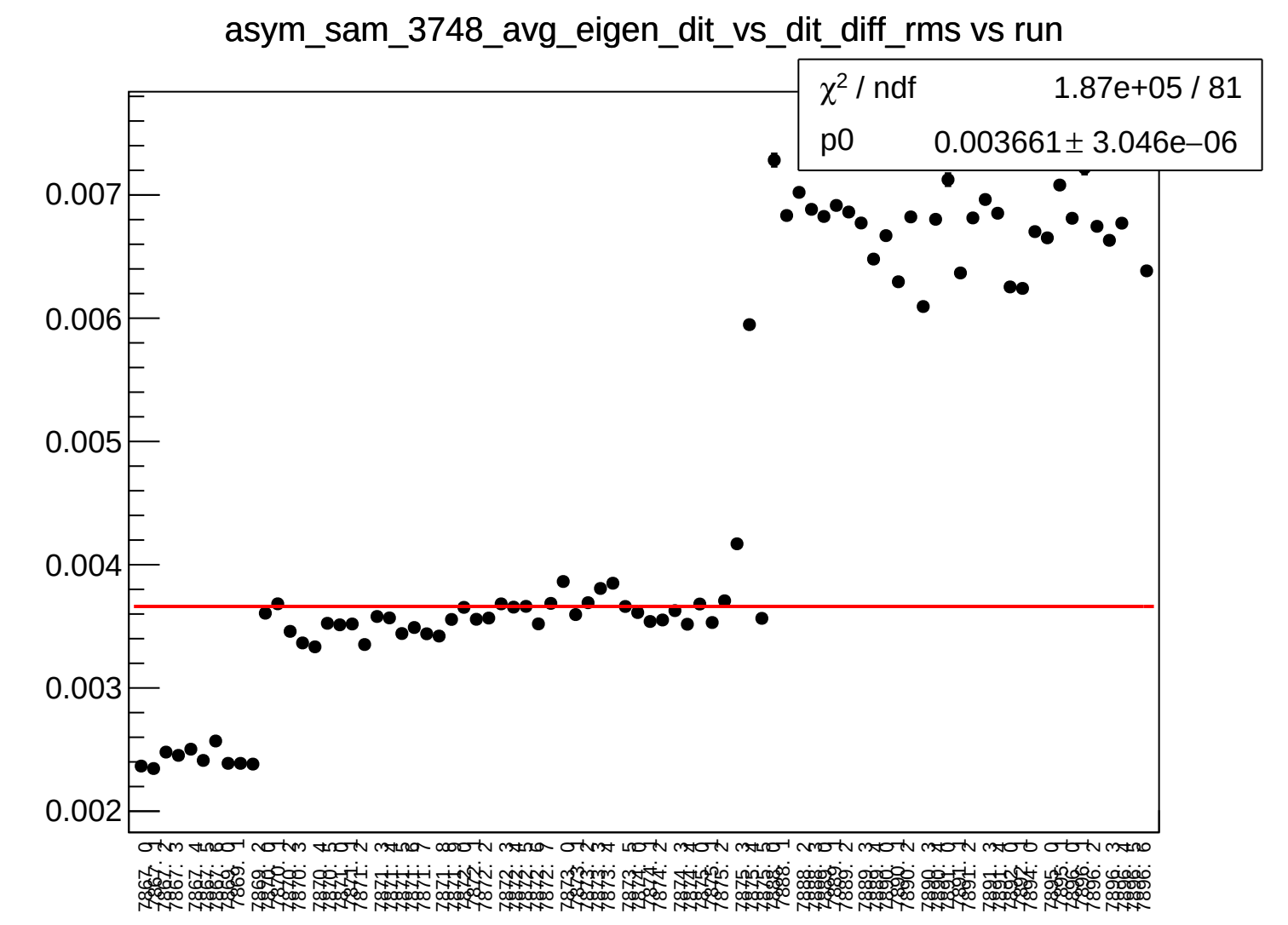

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.225e+05 / 81
p0 83.21 ± 0.06772
350
300
250
200
150
100
50

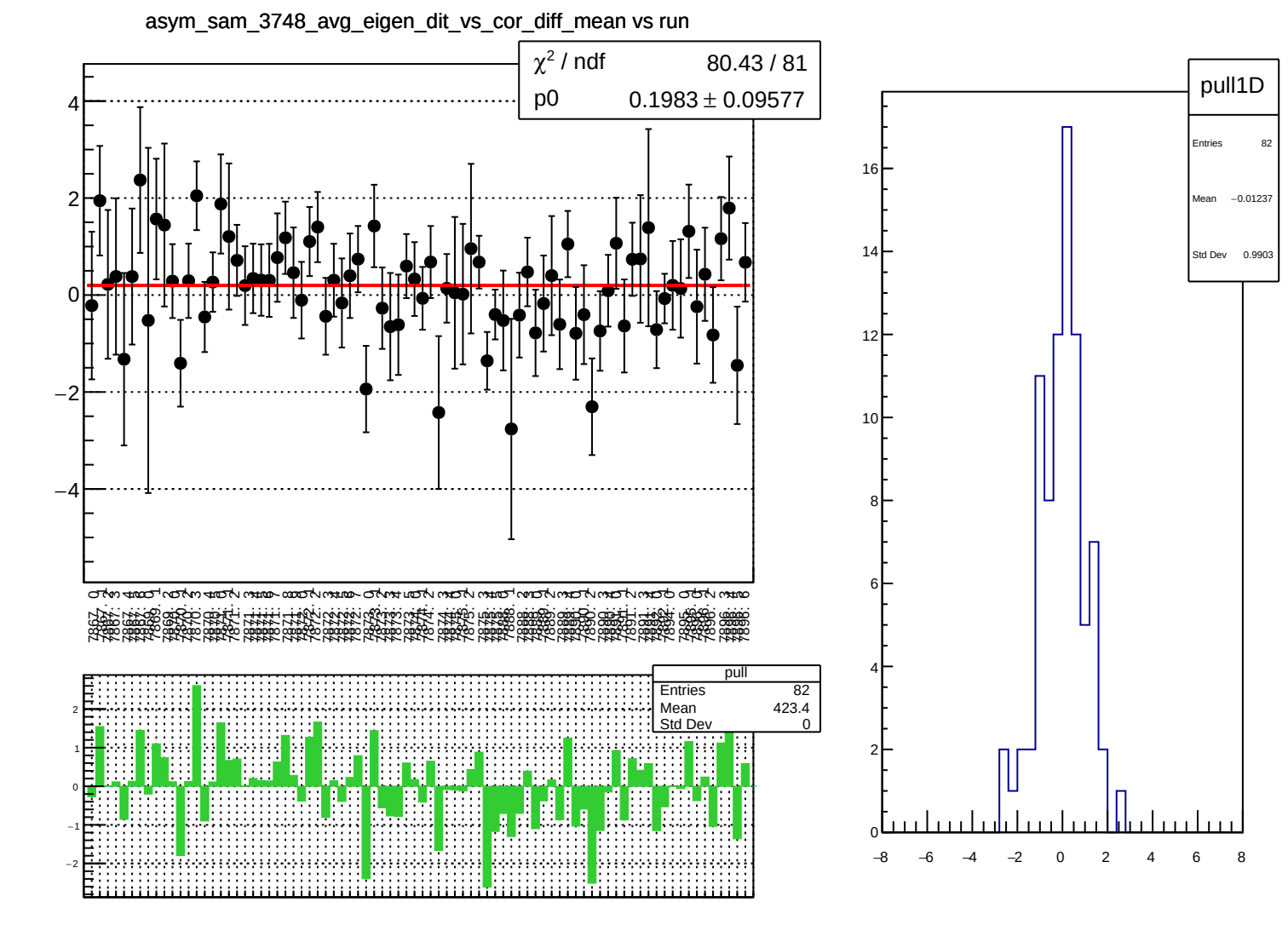

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.43 / 81
p0 0.1983 ± 0.09578
pull
Entries 82
Mean 423.3
Std Dev 0
pull1D
Entries 82
Mean −0.01238
Std Dev 0.9903

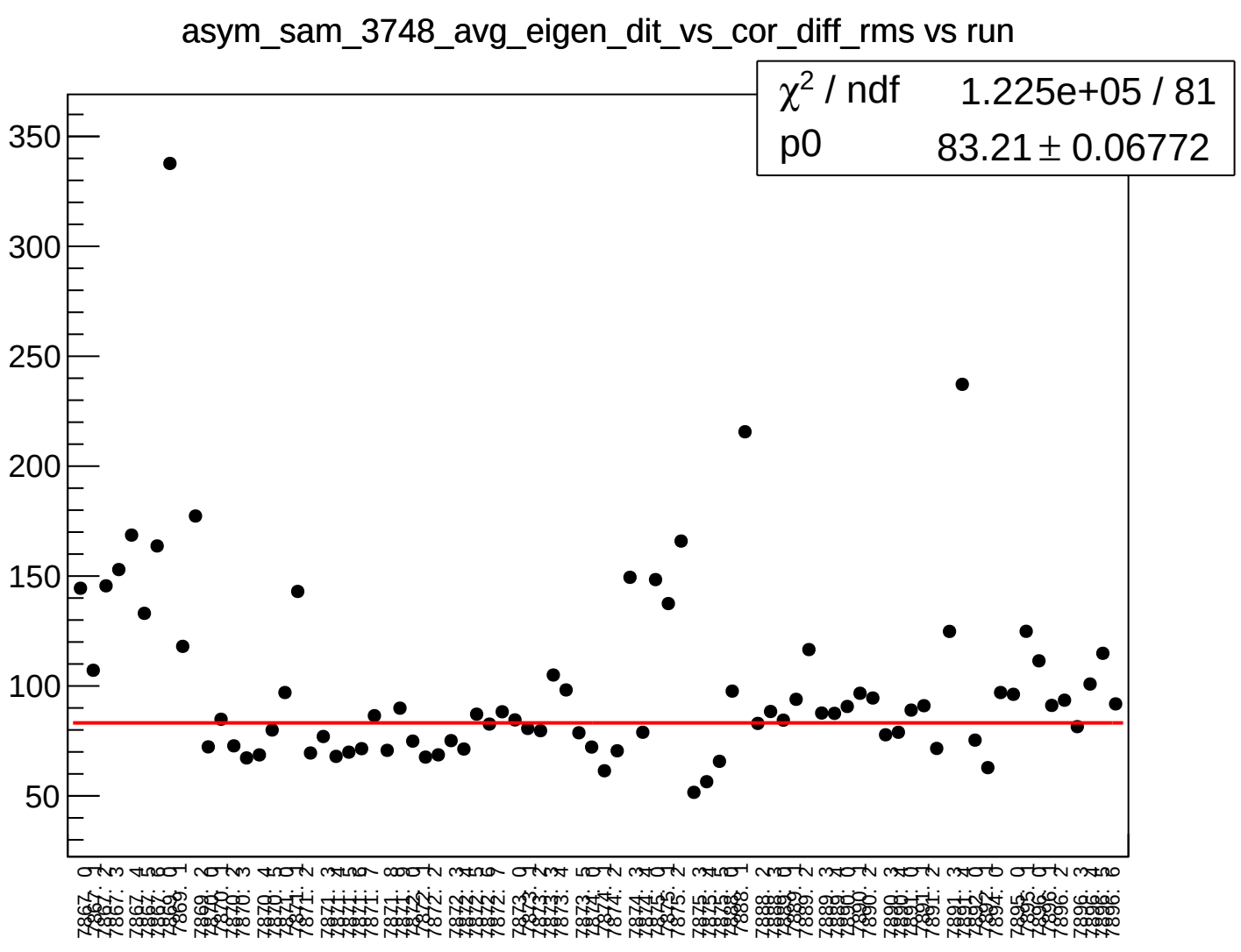

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.225e+05 / 81
p0 83.21 ± 0.06772
350
300
250
200
150
100
50

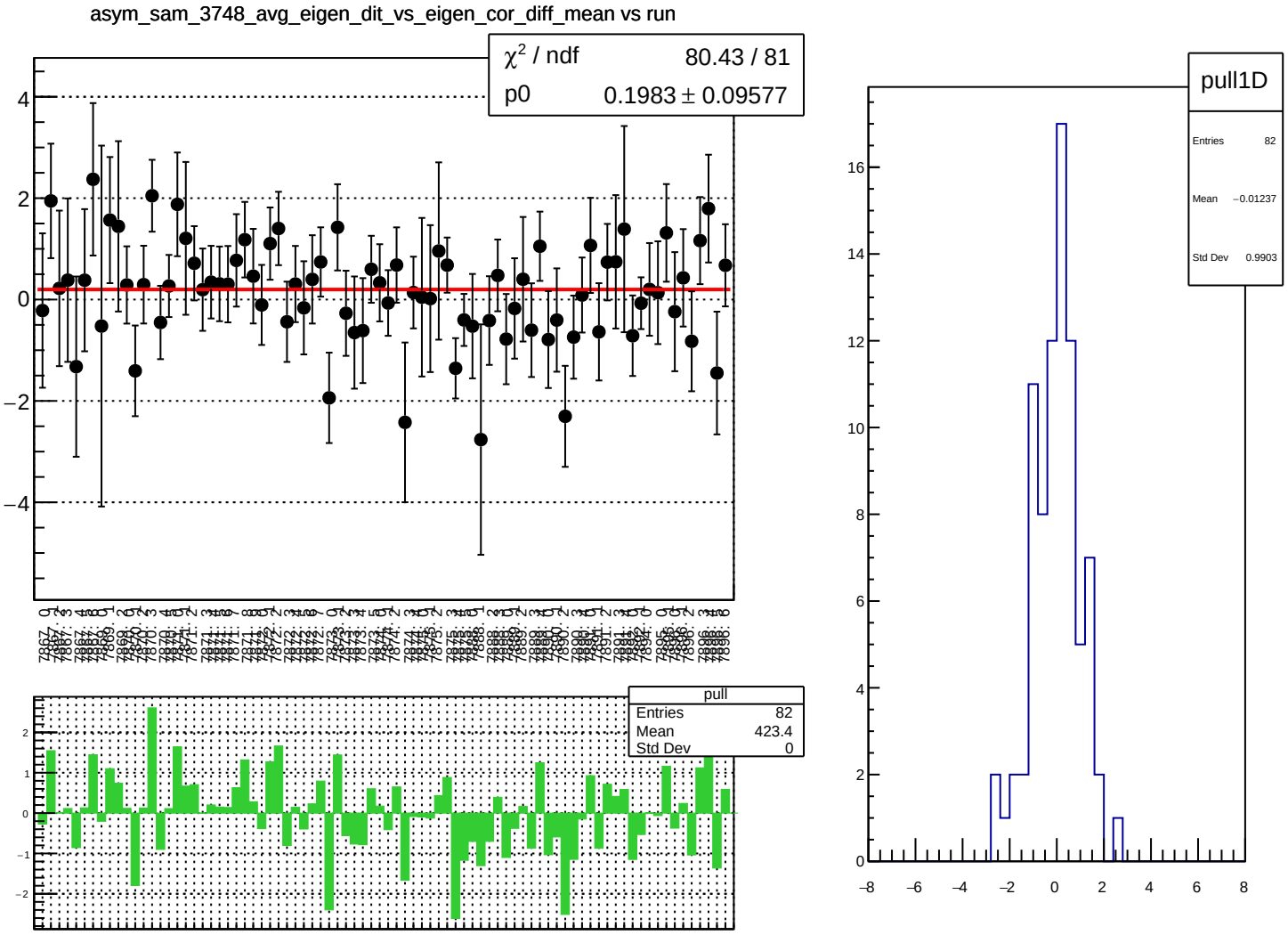

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.53 / 81
p0 −5.937e−06 ± 4.307e−06
pull
Entries 82
Mean 674.8
Std Dev 0

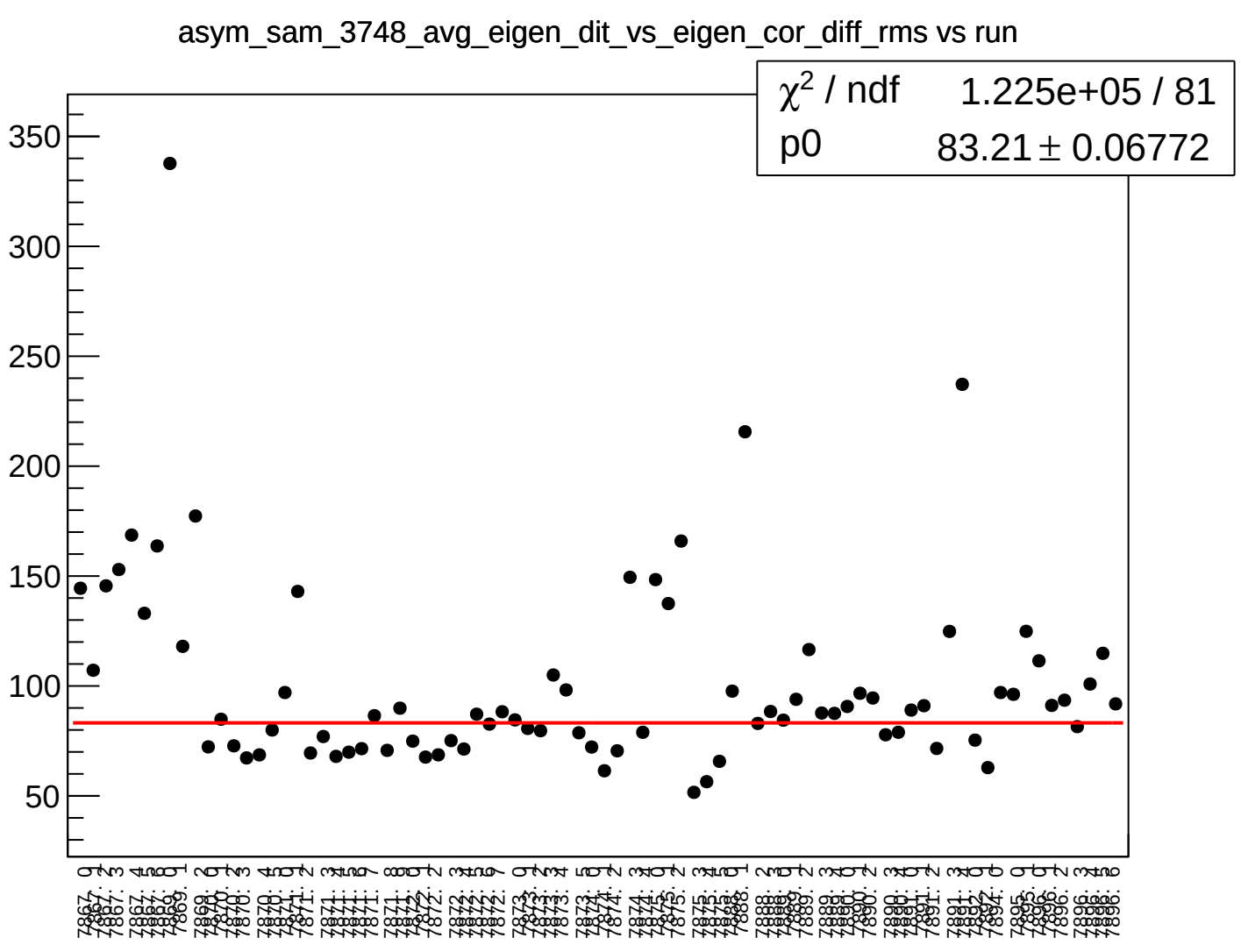

pull1D
Entries 82
Mean 0.002146
Std Dev 0.9533

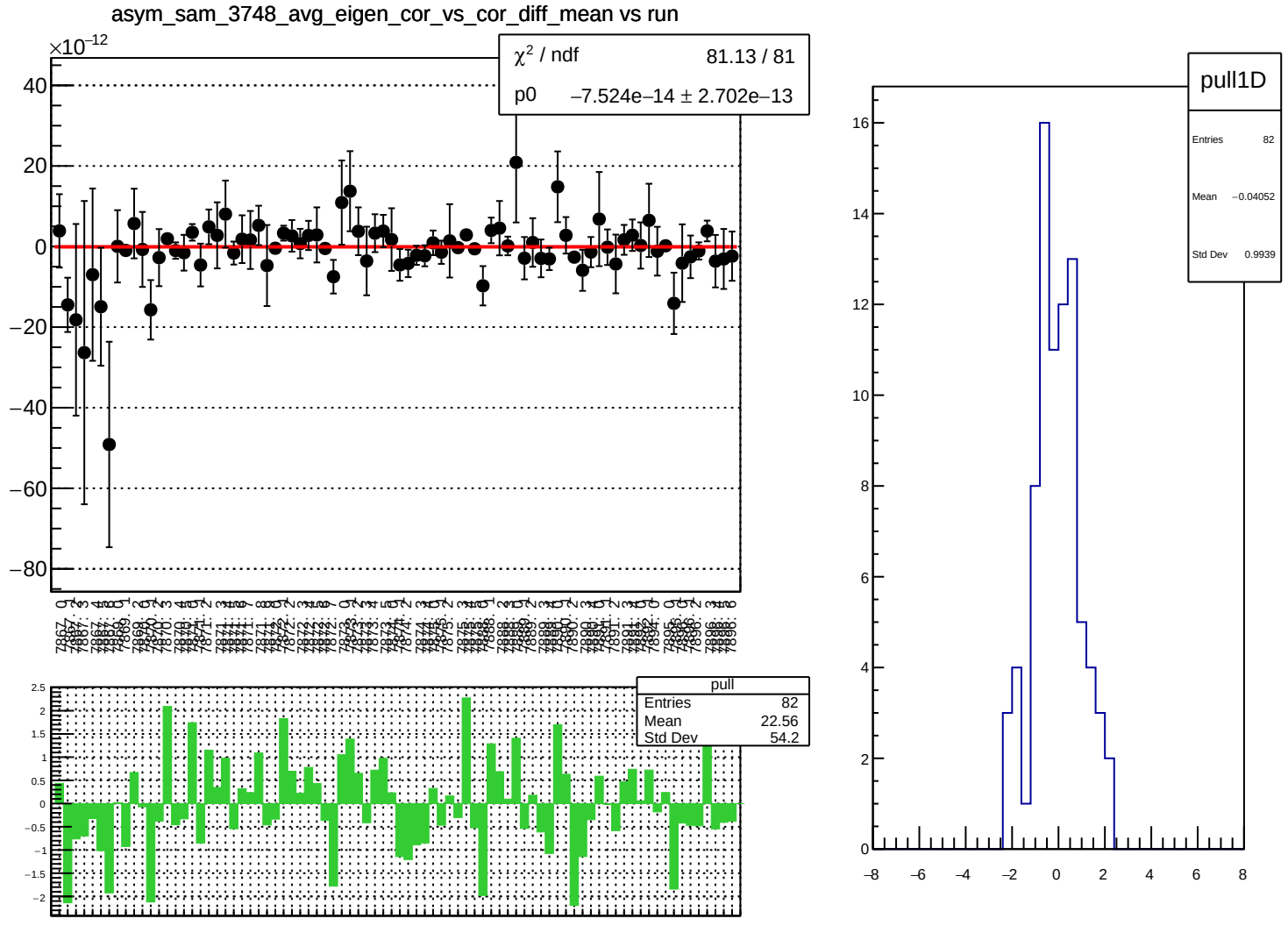

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.87e+05 / 81
p0 0.003661 ± 3.046e−06
0.007
0.006
0.005
0.004
0.003
0.002

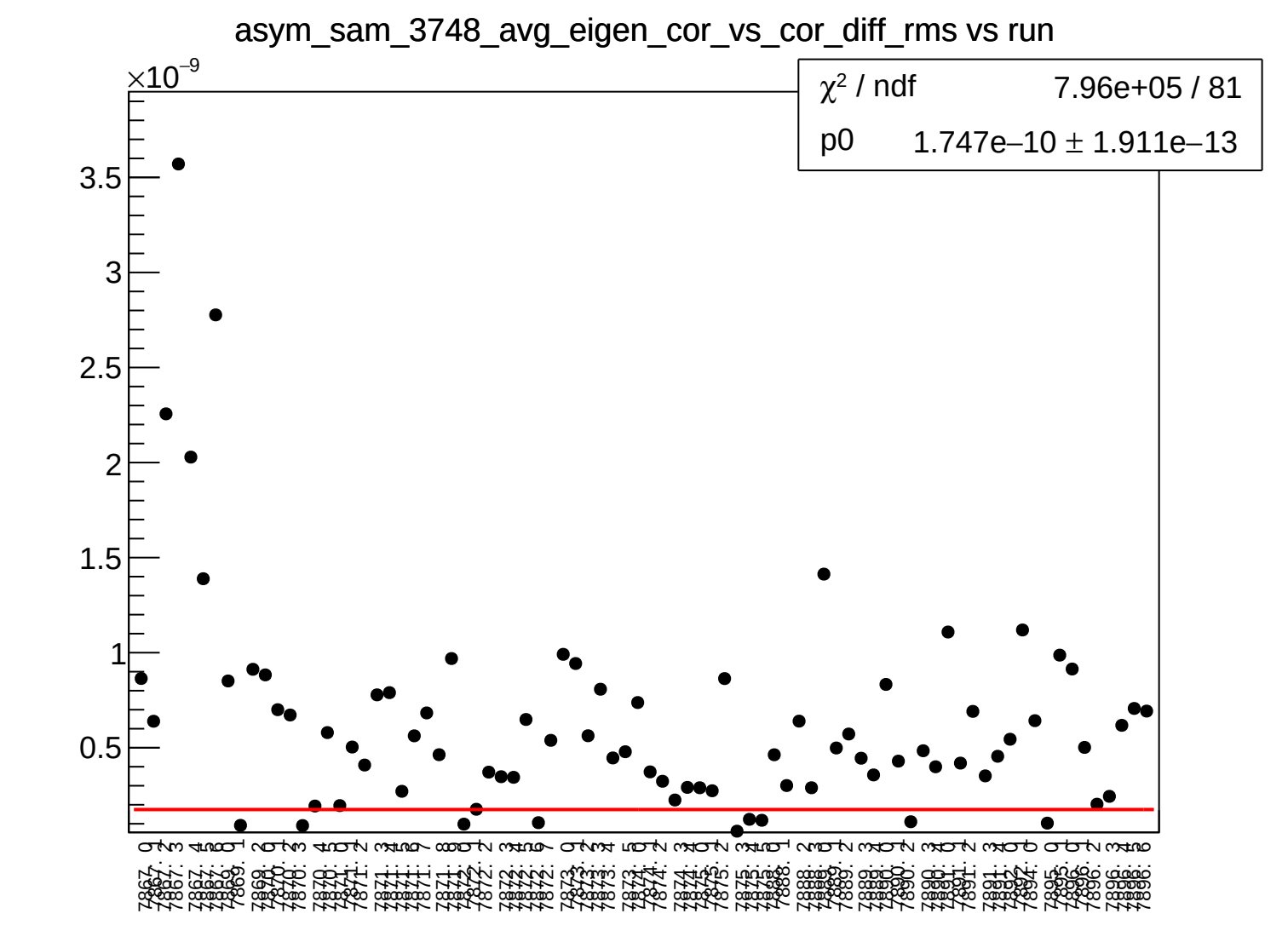

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.43 / 81
p0 0.1983 ± 0.09577
pull
Entries 82
Mean 423.4
Std Dev 0
pull1D
Entries 82
Mean −0.01237
Std Dev 0.9903

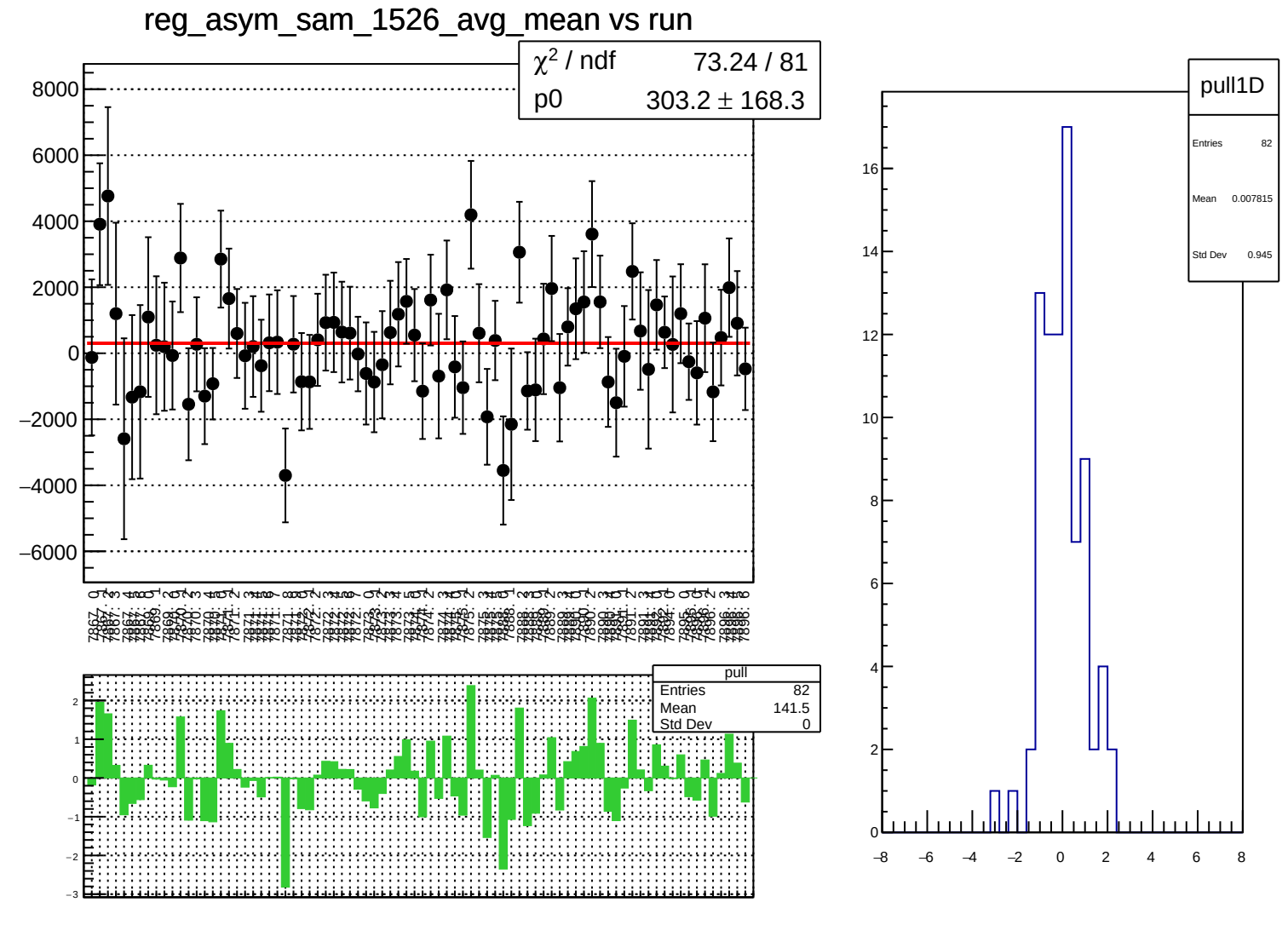

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.225e+05 / 81
p0 83.21 ± 0.06772
350
300
250
200
150
100
50

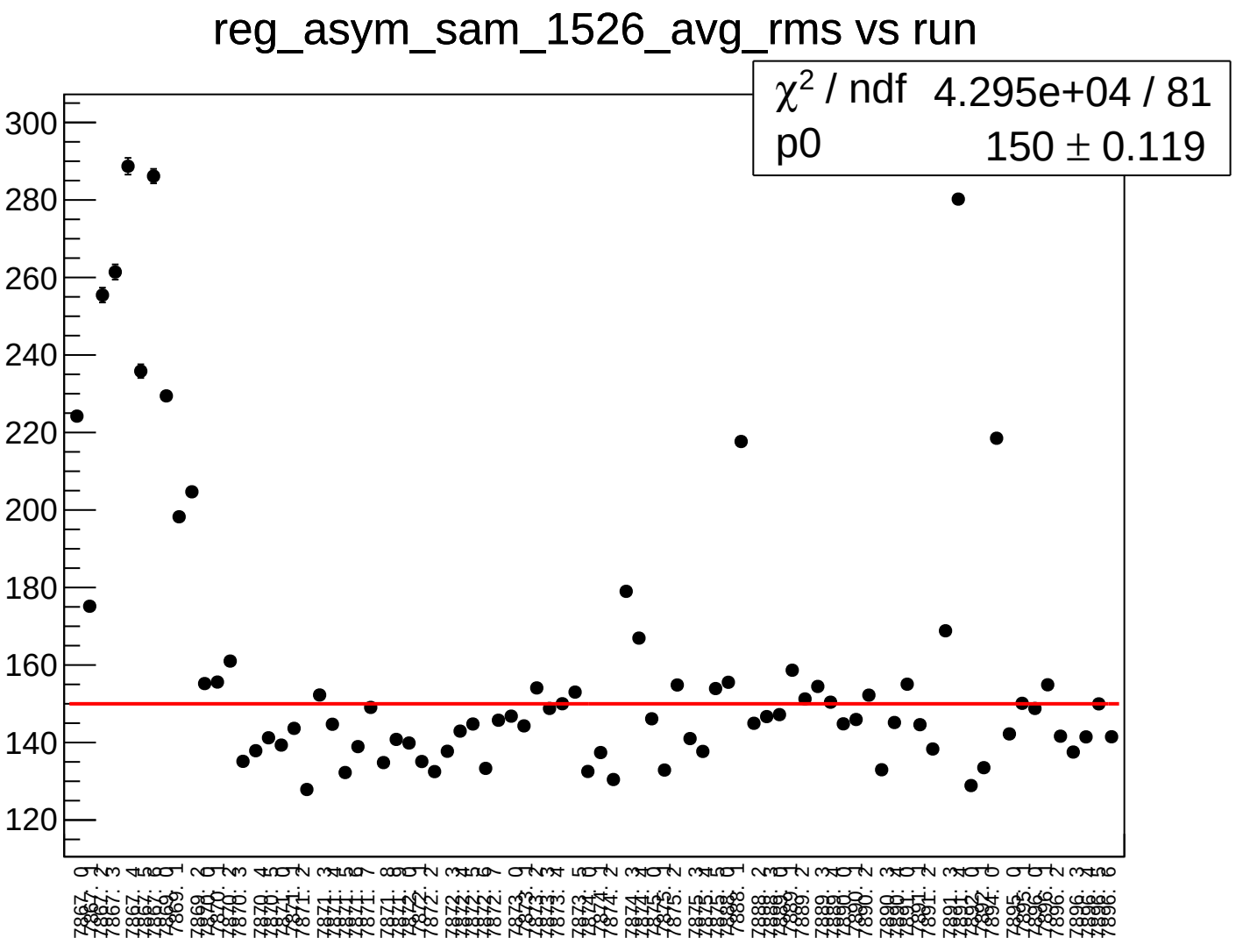

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.43 / 81
p0 0.1983 ± 0.09577
pull
Entries 82
Mean 423.4
Std Dev 0
pull1D
Entries 82
Mean −0.01237
Std Dev 0.9903

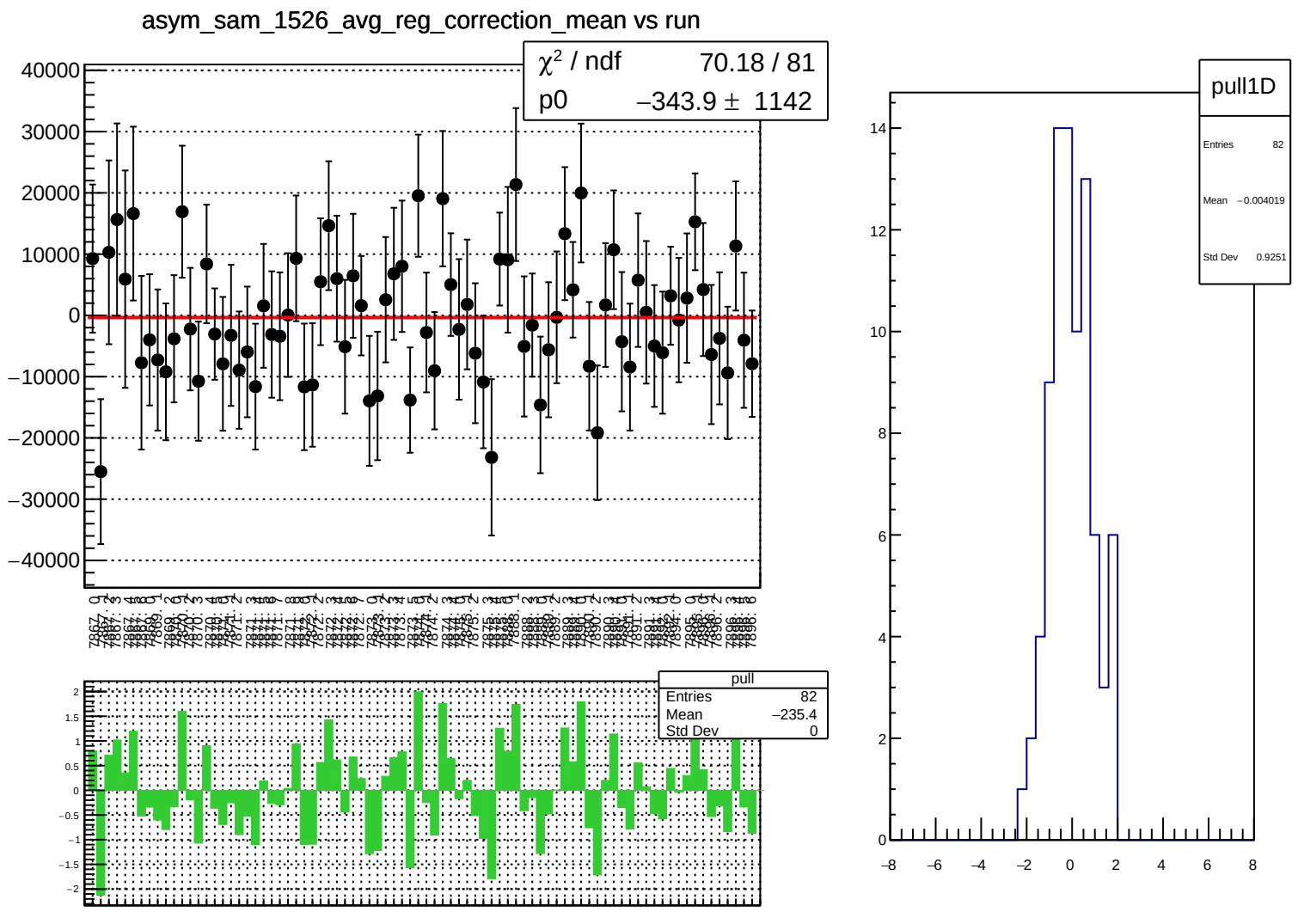

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.225e+05 / 81
p0 83.21 ± 0.06772
350
300
250
200
150
100
50

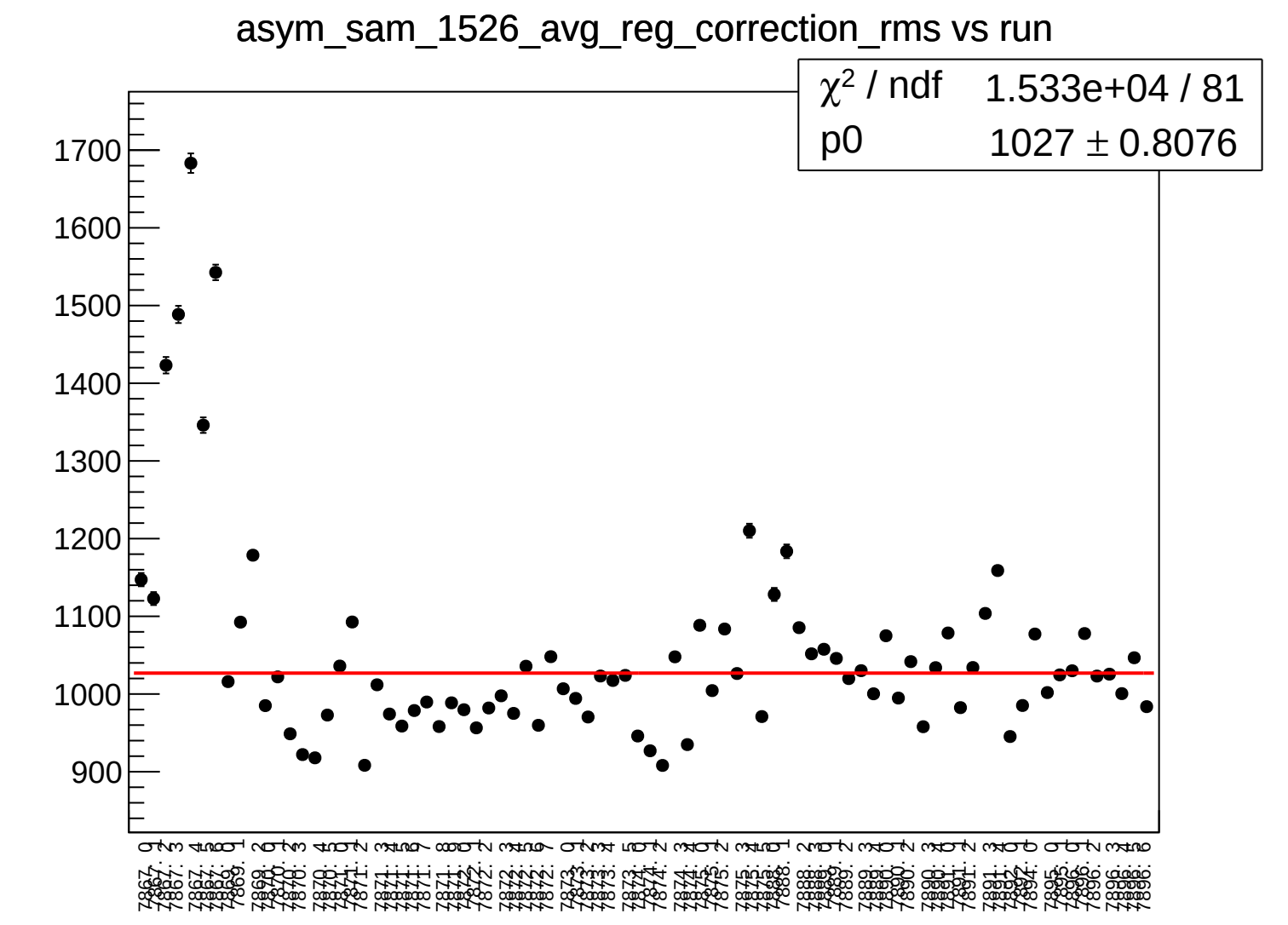

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.13 / 81
p0 −7.524e−14 ± 2.702e−13
pull
Entries 82
Mean 22.56
Std Dev 54.2
pull1D
Entries 82
Mean −0.04052
Std Dev 0.9939

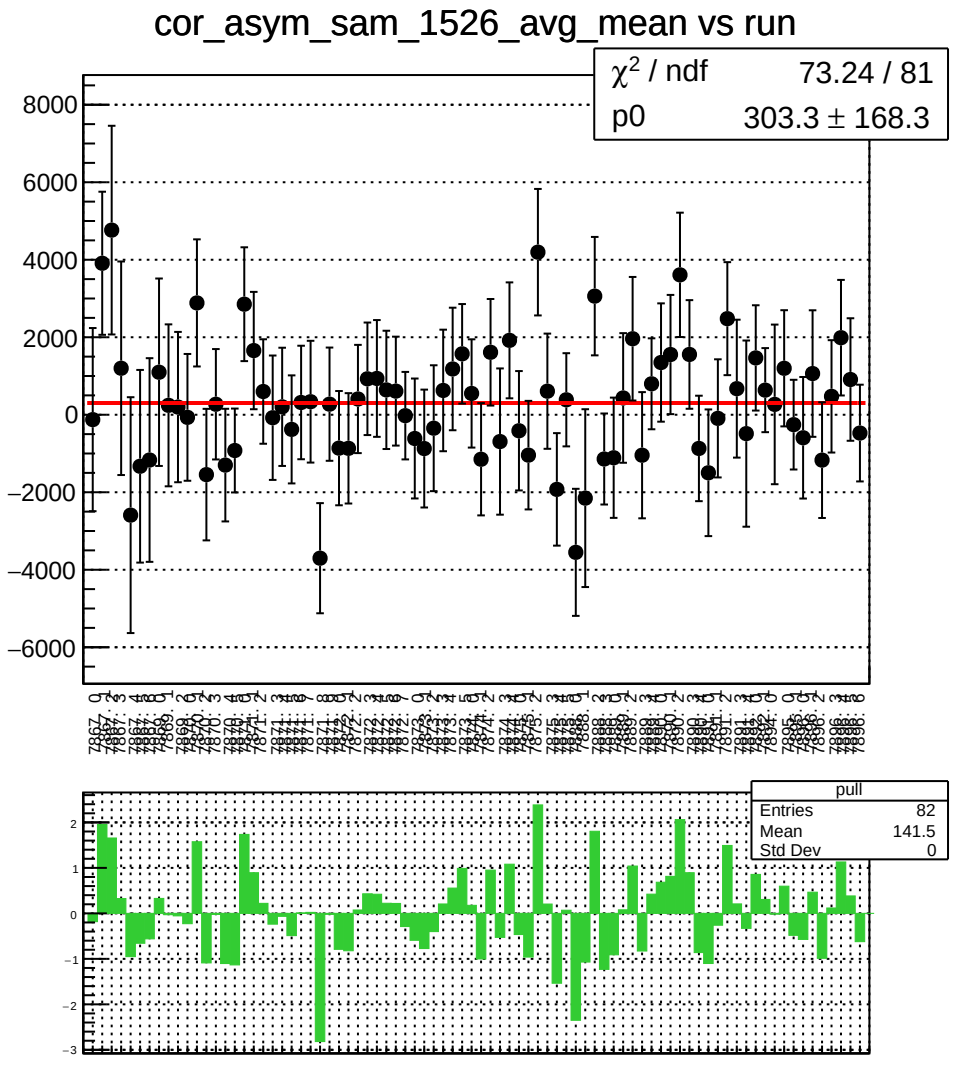

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.96e+05 / 81
p0 1.747e−10 ± 1.911e−13
3.5
3
2.5
2
1.5
1
0.5

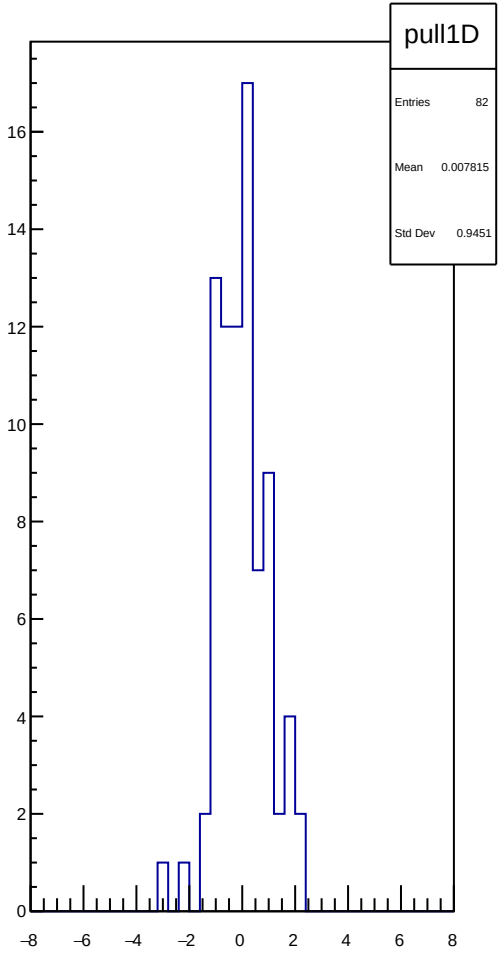

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 73.24 / 81
p0 303.2 ± 168.3
pull
Entries 82
Mean 141.5
Std Dev 0
pull1D
Entries 82
Mean 0.007815
Std Dev 0.945

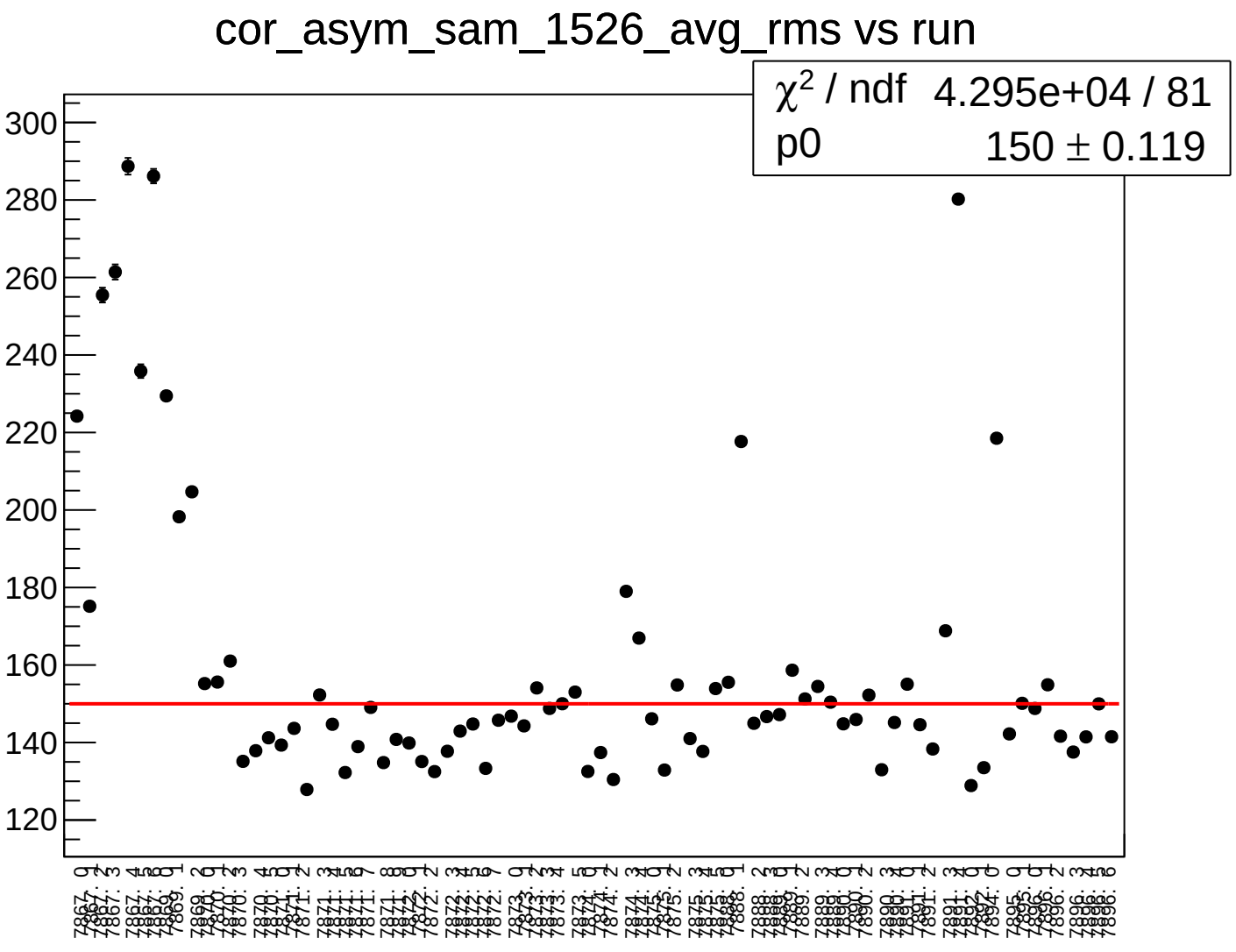

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4.295e+04 / 81
p0 150 ± 0.119
300
280
260
240
220
200
180
160
140
120

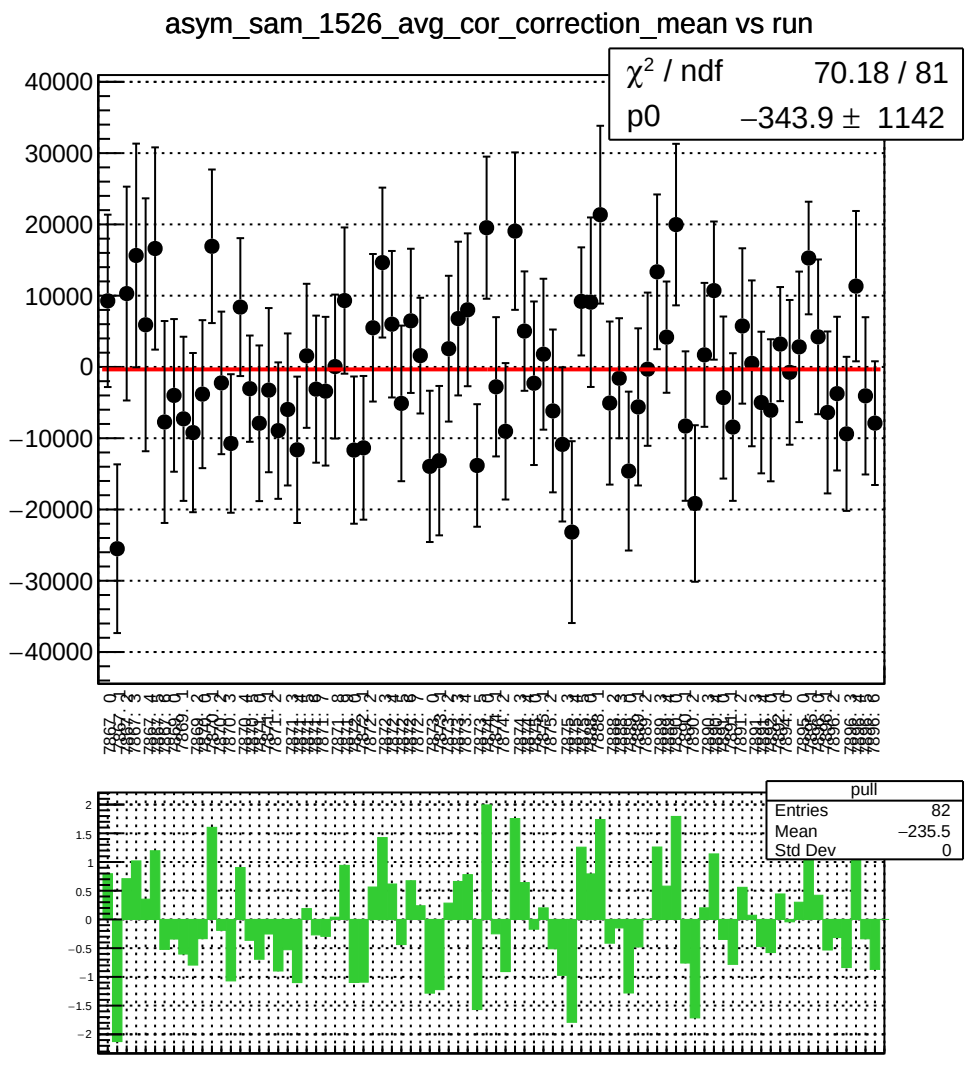

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 70.18 / 81
p0 −343.9 ± 1142
pull
Entries 82
Mean −235.4
Std Dev 0
pull1D
Entries 82
Mean −0.004019
Std Dev 0.9251

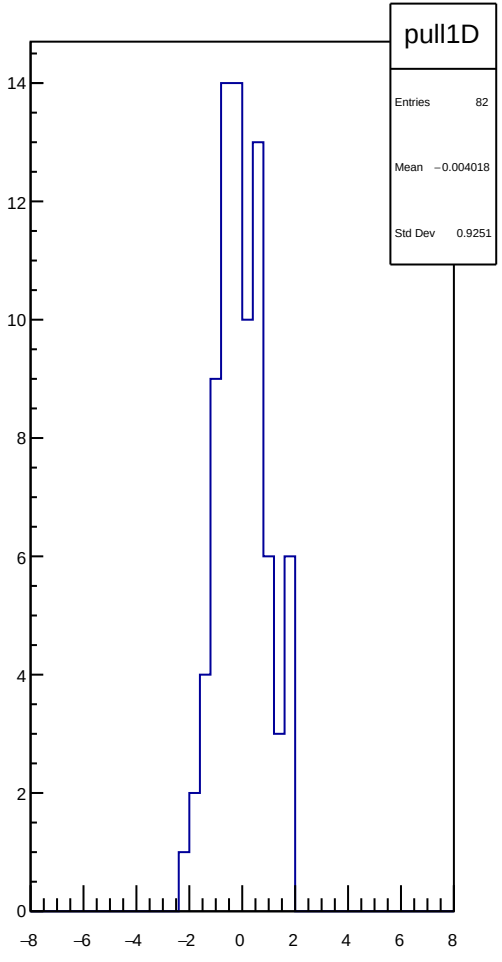

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.533e+04 / 81
p0 1027 ± 0.8076
1700
1600
1500
1400
1300
1200
1100
1000
900

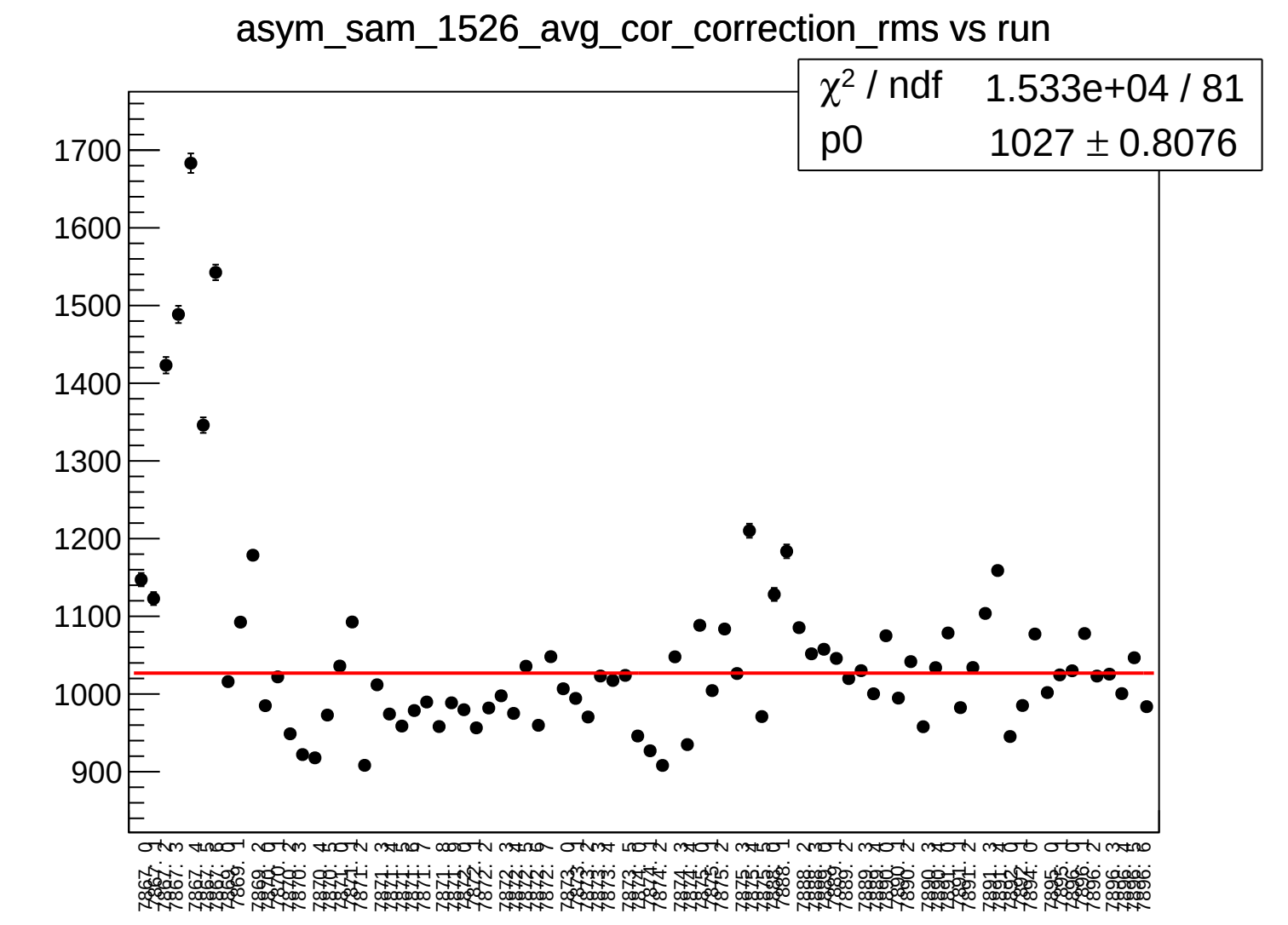

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 73.24 / 81
p0 303.3 ± 168.3
pull
Entries 82
Mean 141.5
Std Dev 0

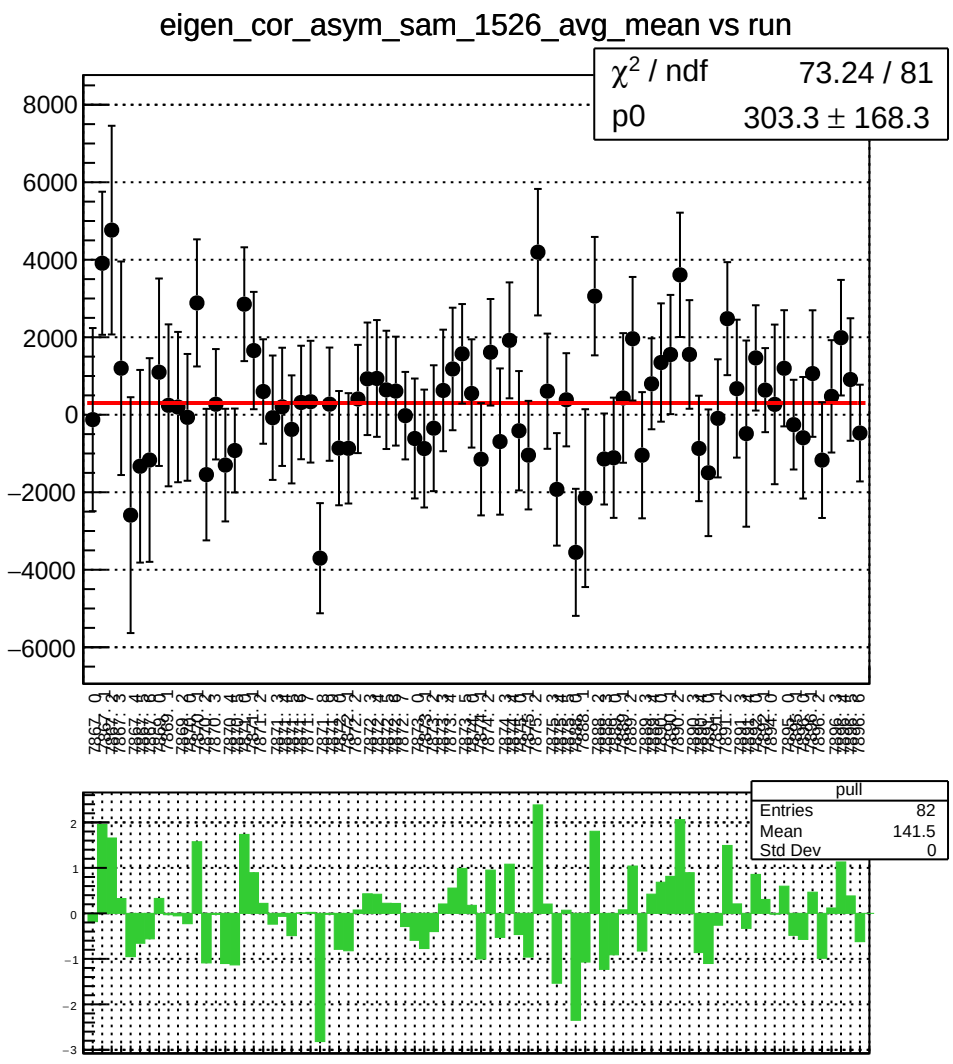

pull1D
Entries 82
Mean 0.007815
Std Dev 0.9451

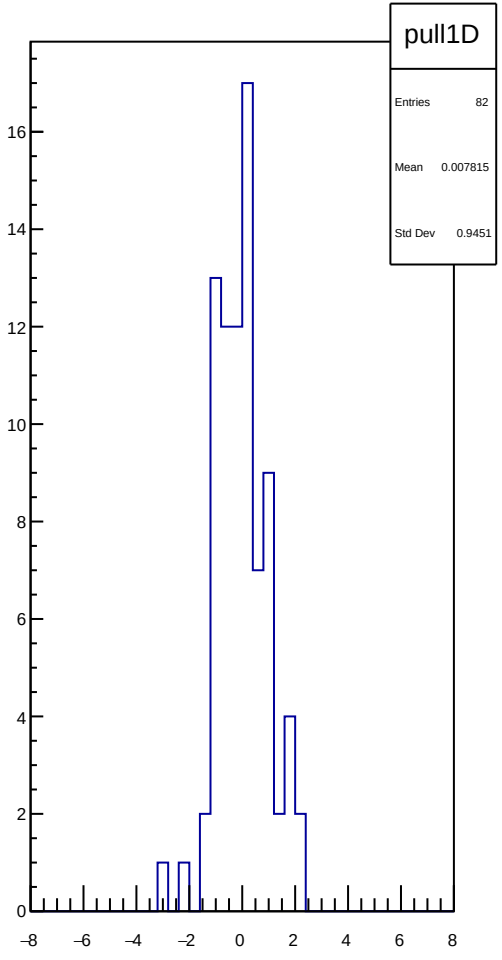

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.295e+04 / 81
p0 150 ± 0.119
300
280
260
240
220
200
180
160
140
120

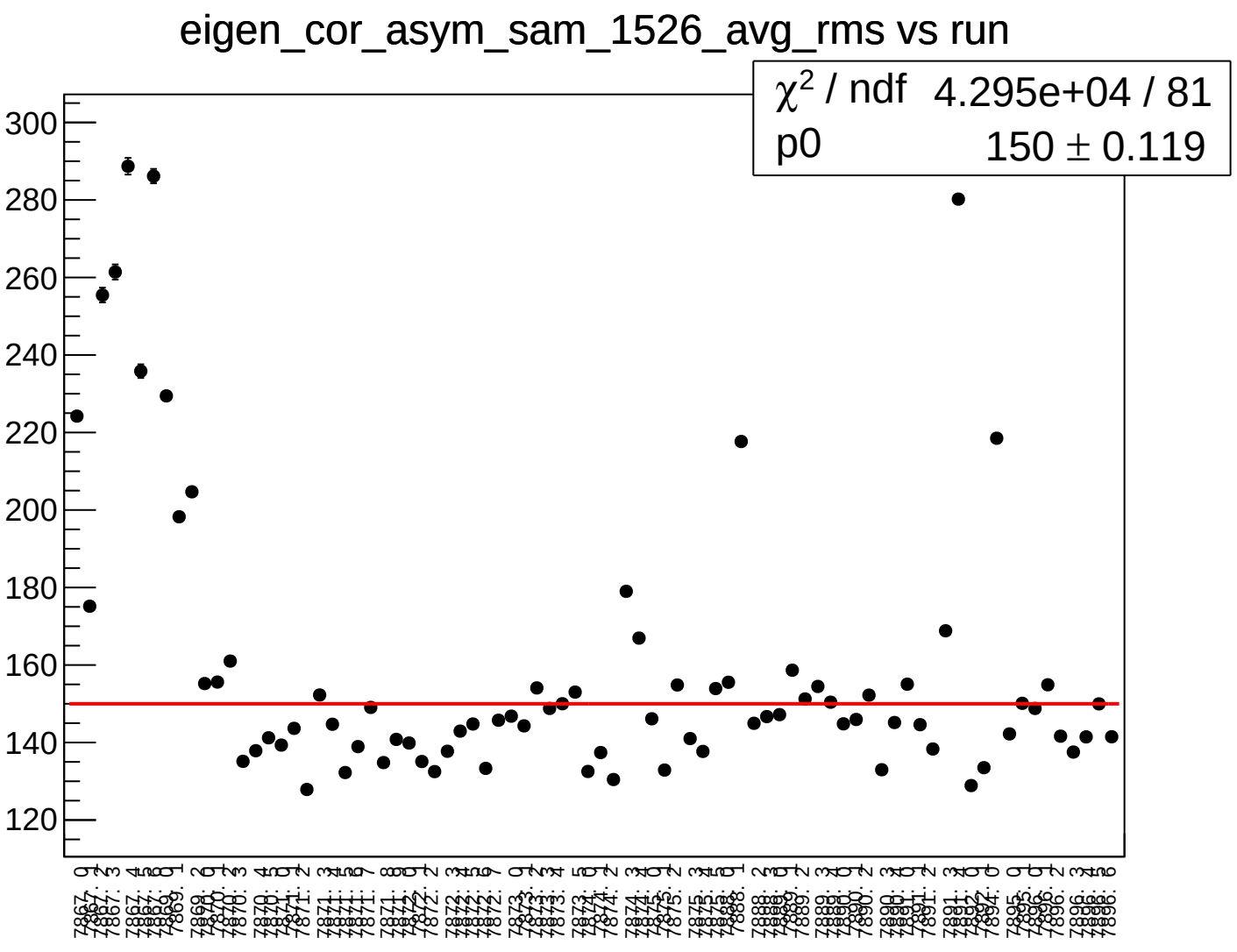

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 70.18 / 81
p0 −343.9 ± 1142
pull
Entries 82
Mean −235.5
Std Dev 0

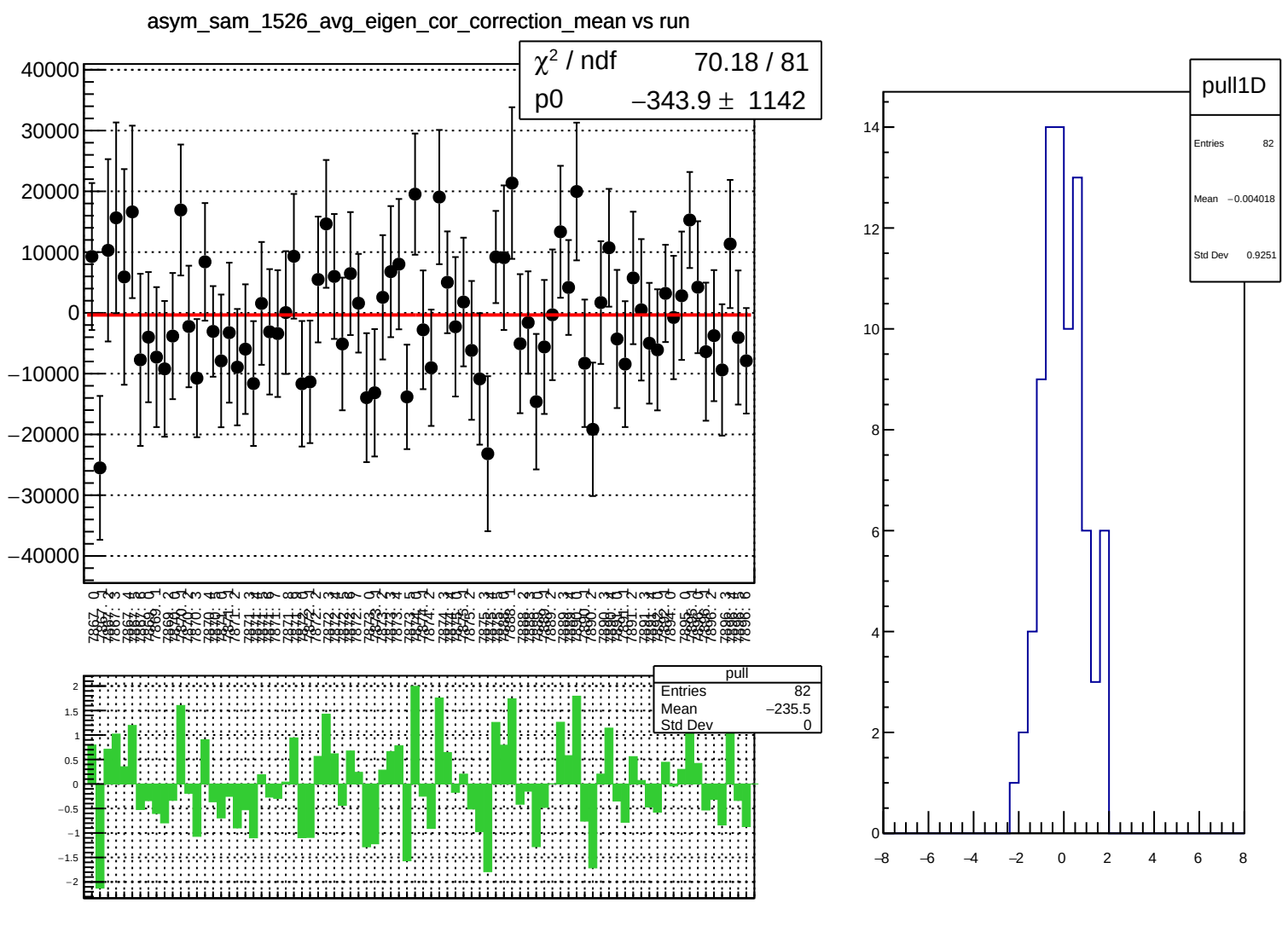

pull1D
Entries 82
Mean −0.004018
Std Dev 0.9251

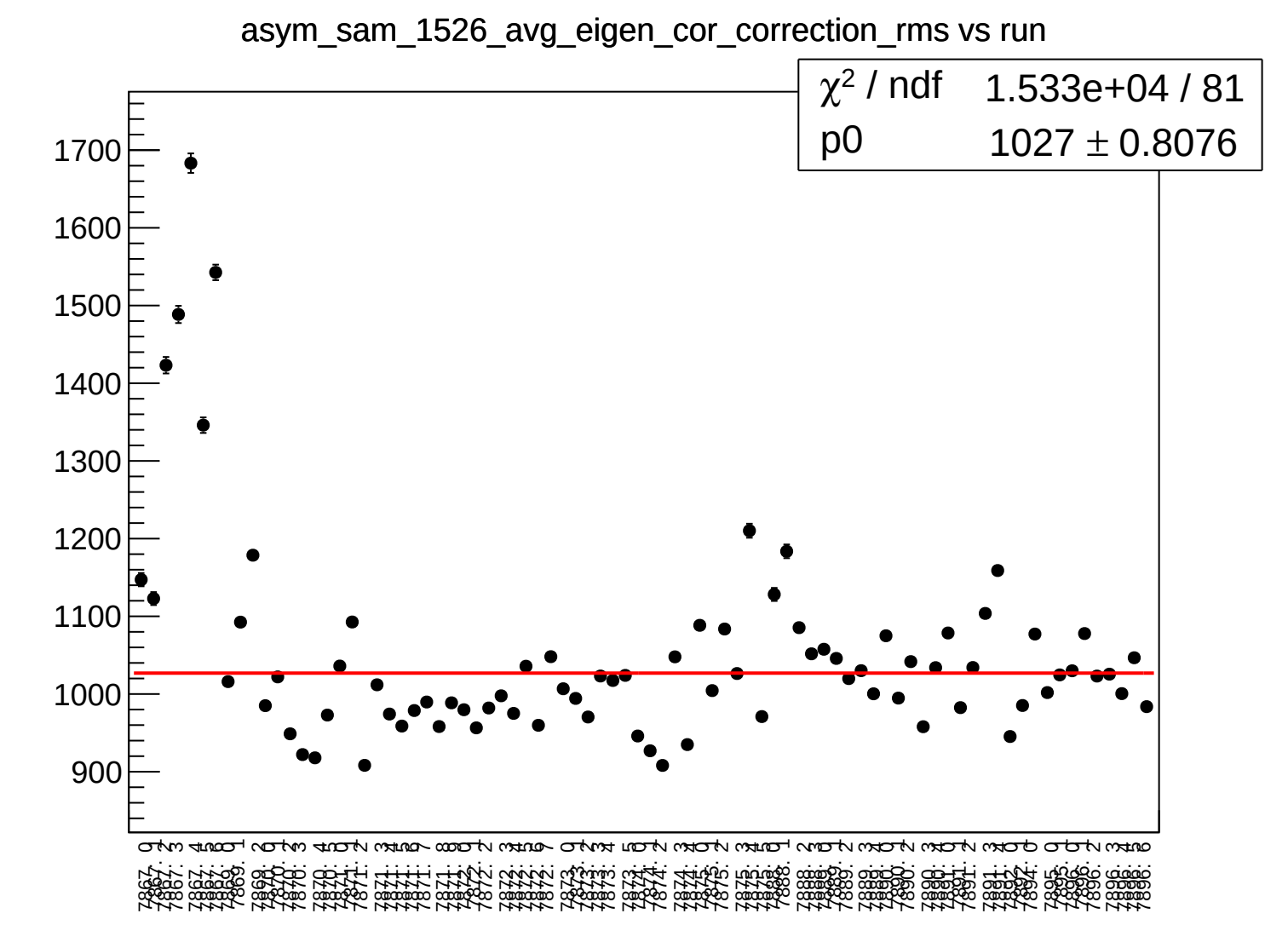

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 81
p0 1027 ± 0.8076
1700
1600
1500
1400
1300
1200
1100
1000
900

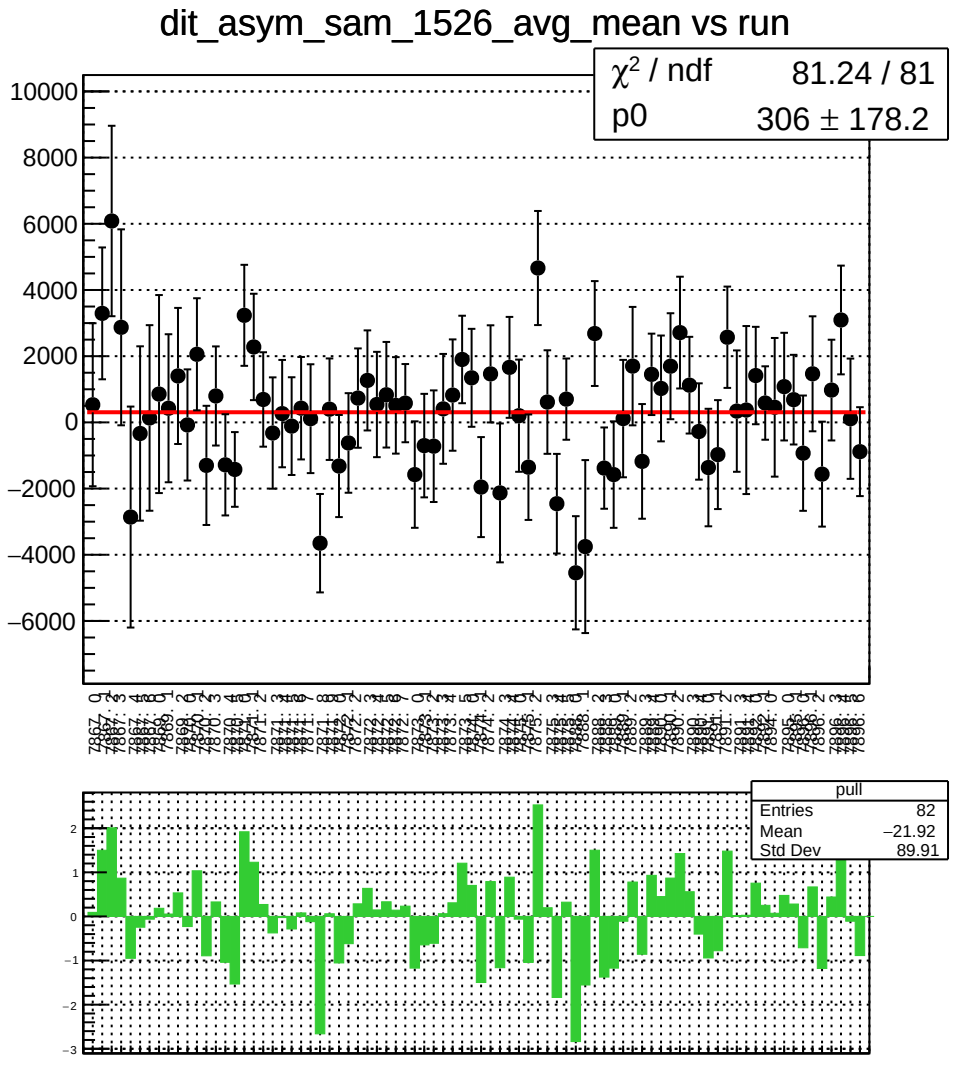

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 73.24 / 81
p0 303.3 ± 168.3
pull
Entries 82
Mean 141.5
Std Dev 0

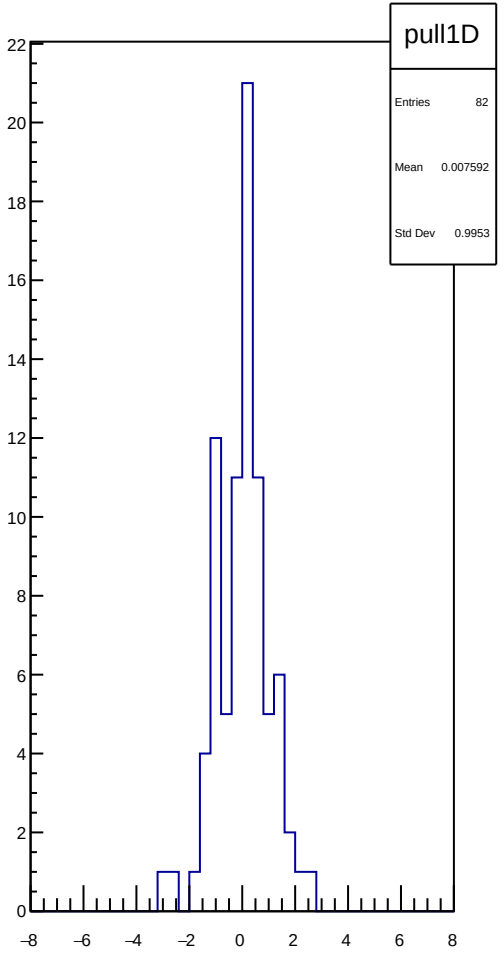

pull1D
Entries 82
Mean 0.007815
Std Dev 0.9451

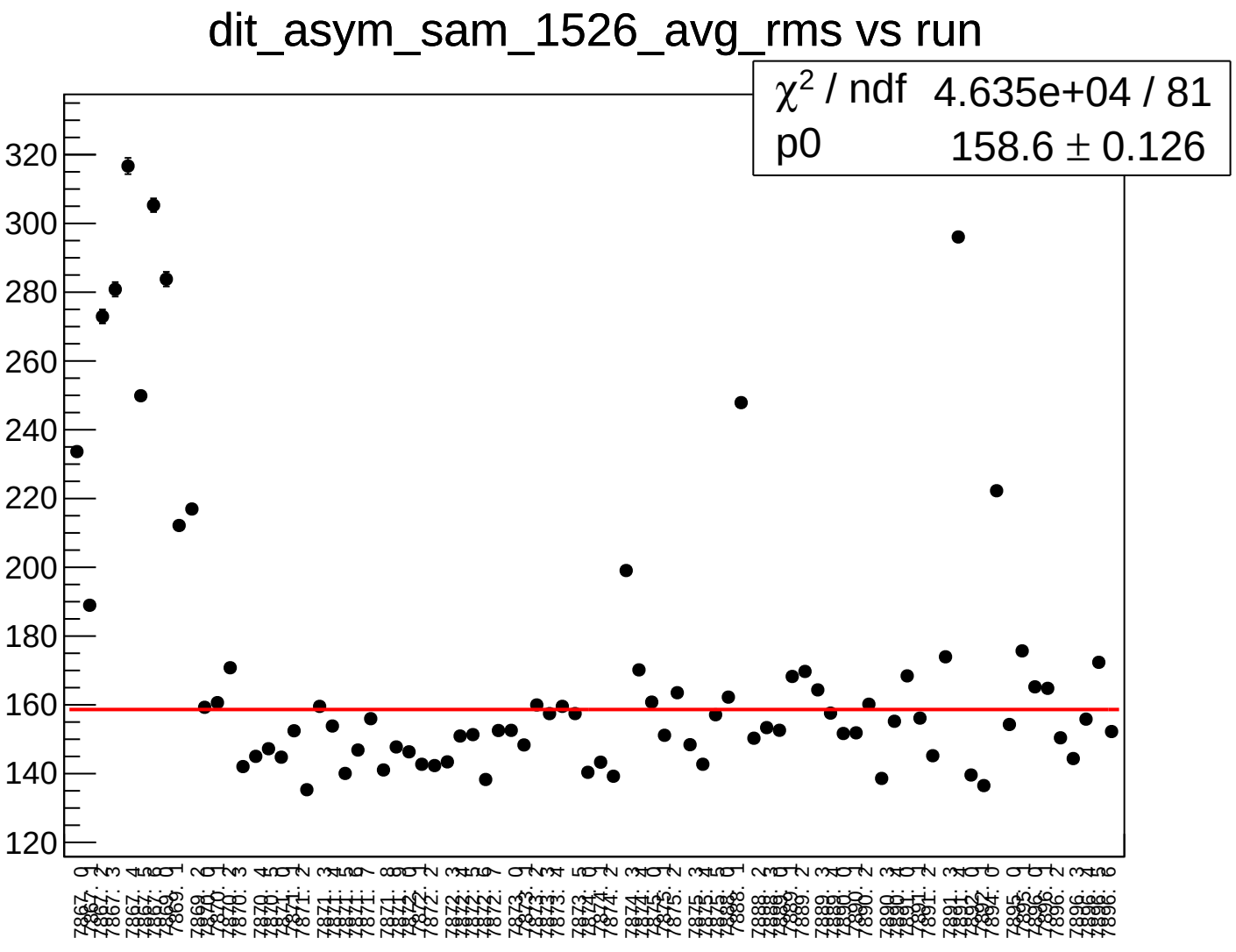

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.295e+04 / 81
p0 150 ± 0.119
300
280
260
240
220
200
180
160
140
120

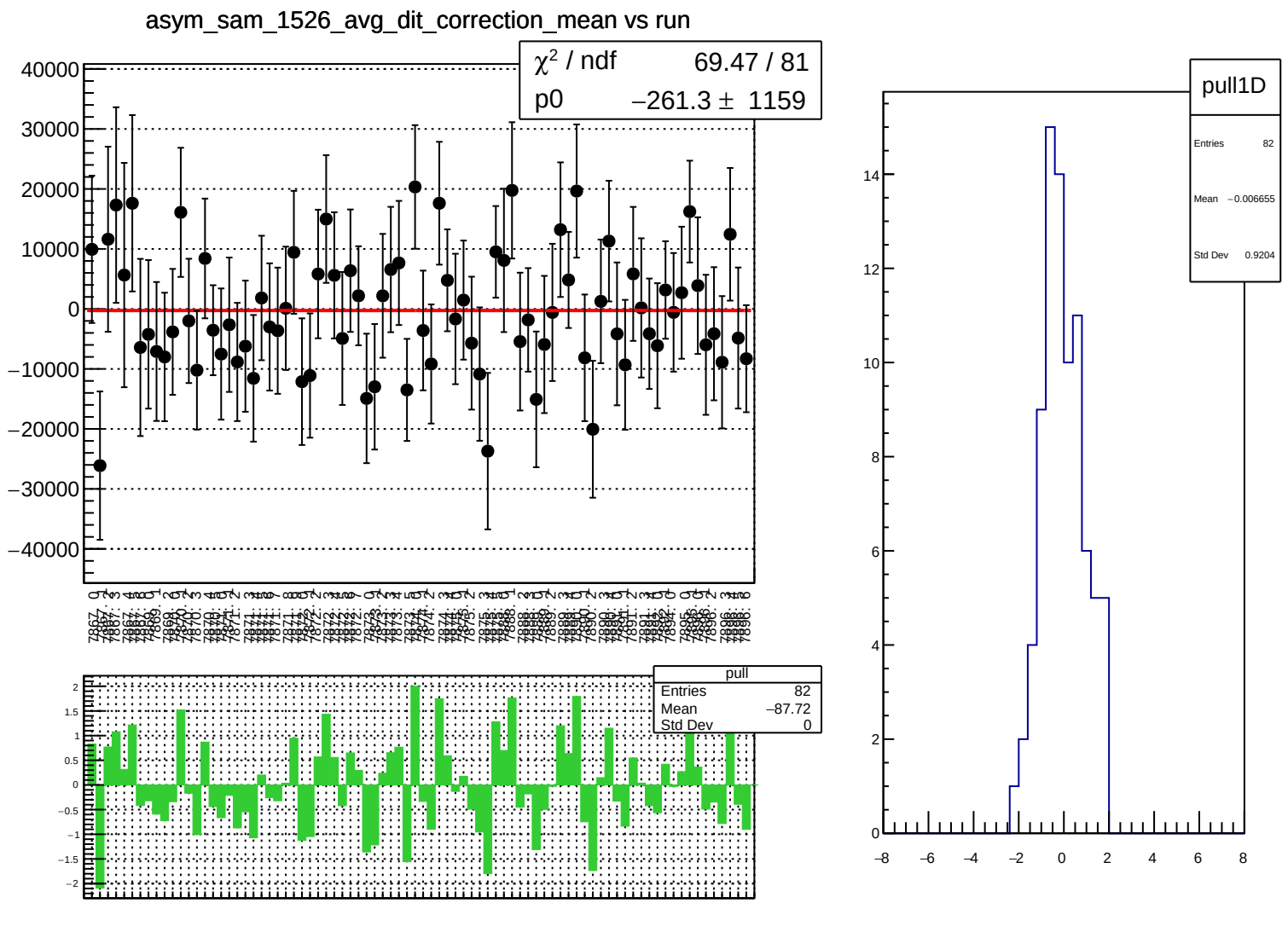

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.18 / 81
p0 −343.9 ± 1142
pull
Entries 82
Mean −235.5
Std Dev 0
pull1D
Entries 82
Mean −0.004018
Std Dev 0.9251

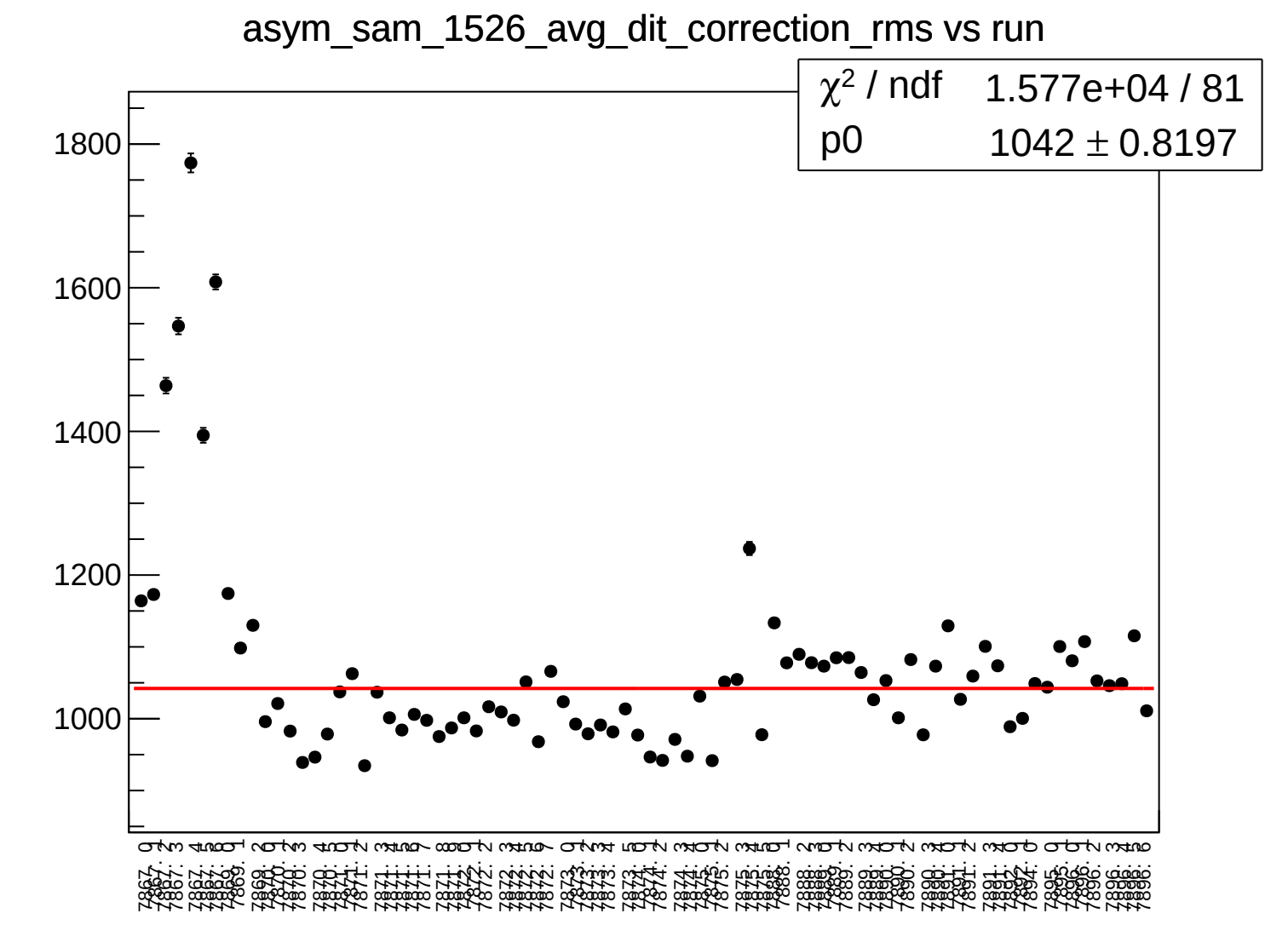

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 81
p0 1027 ± 0.8076
1700
1600
1500
1400
1300
1200
1100
1000
900

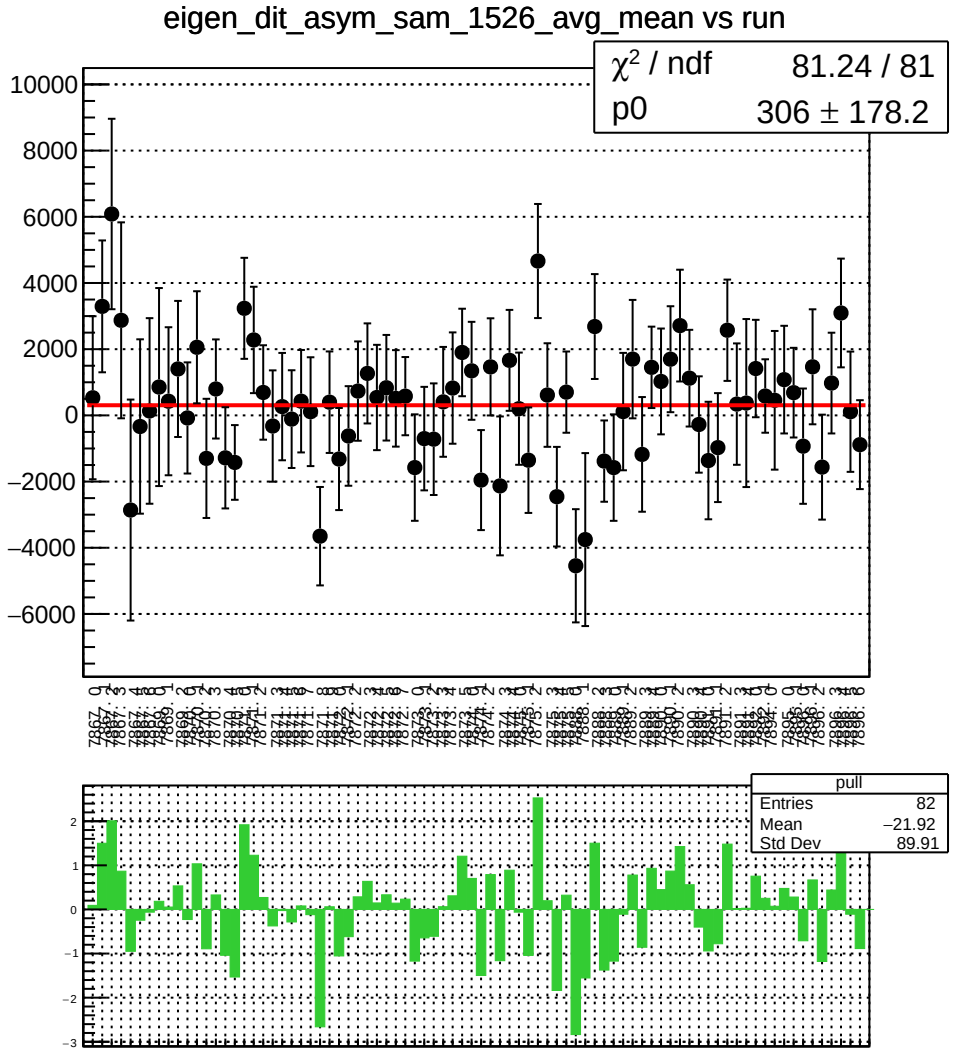

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 81.24 / 81
p0 306 ± 178.2
pull
Entries 82
Mean −21.92
Std Dev 89.91

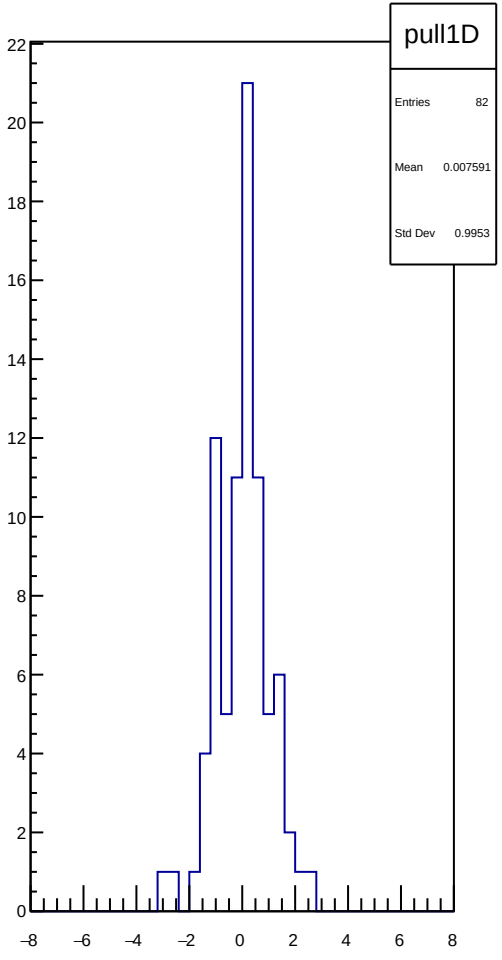

pull1D
Entries 82
Mean 0.007592
Std Dev 0.9953

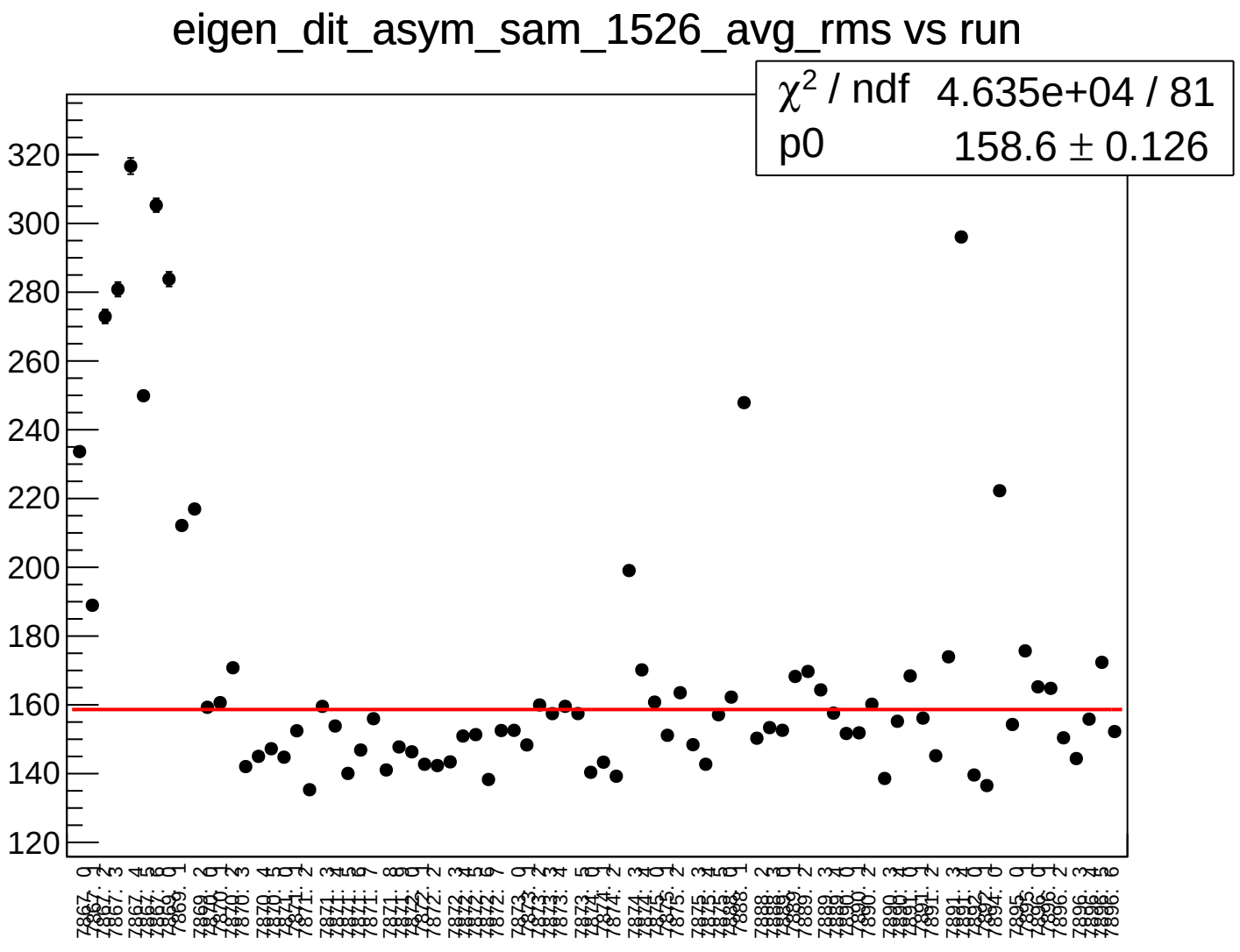

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.635e+04 / 81
p0 158.6 ± 0.126
320
300
280
260
240
220
200
180
160
140
120

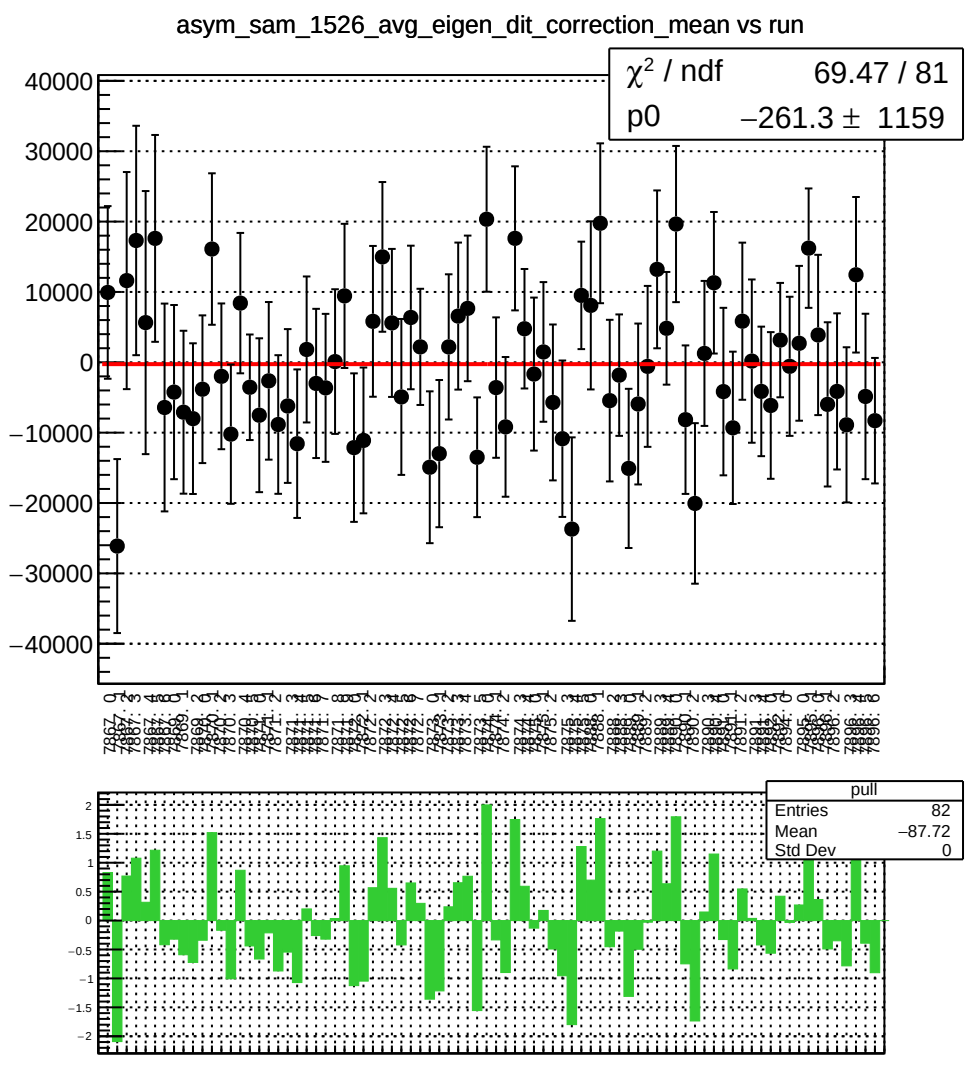

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 69.47 / 81
p0 −261.3 ± 1159
pull
Entries 82
Mean −87.72
Std Dev 0
pull1D
Entries 82
Mean −0.006655
Std Dev 0.9204

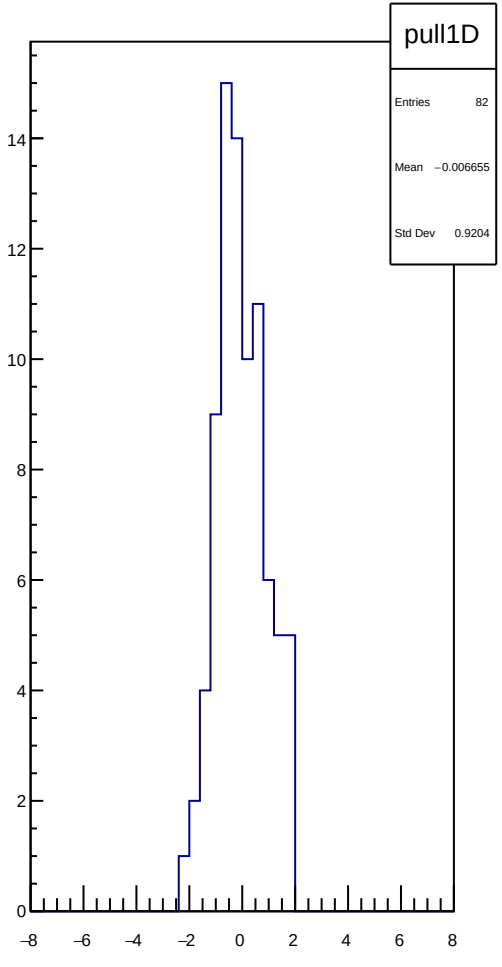

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.577e+04 / 81
p0 1042 ± 0.8197
1800
1600
1400
1200
1000

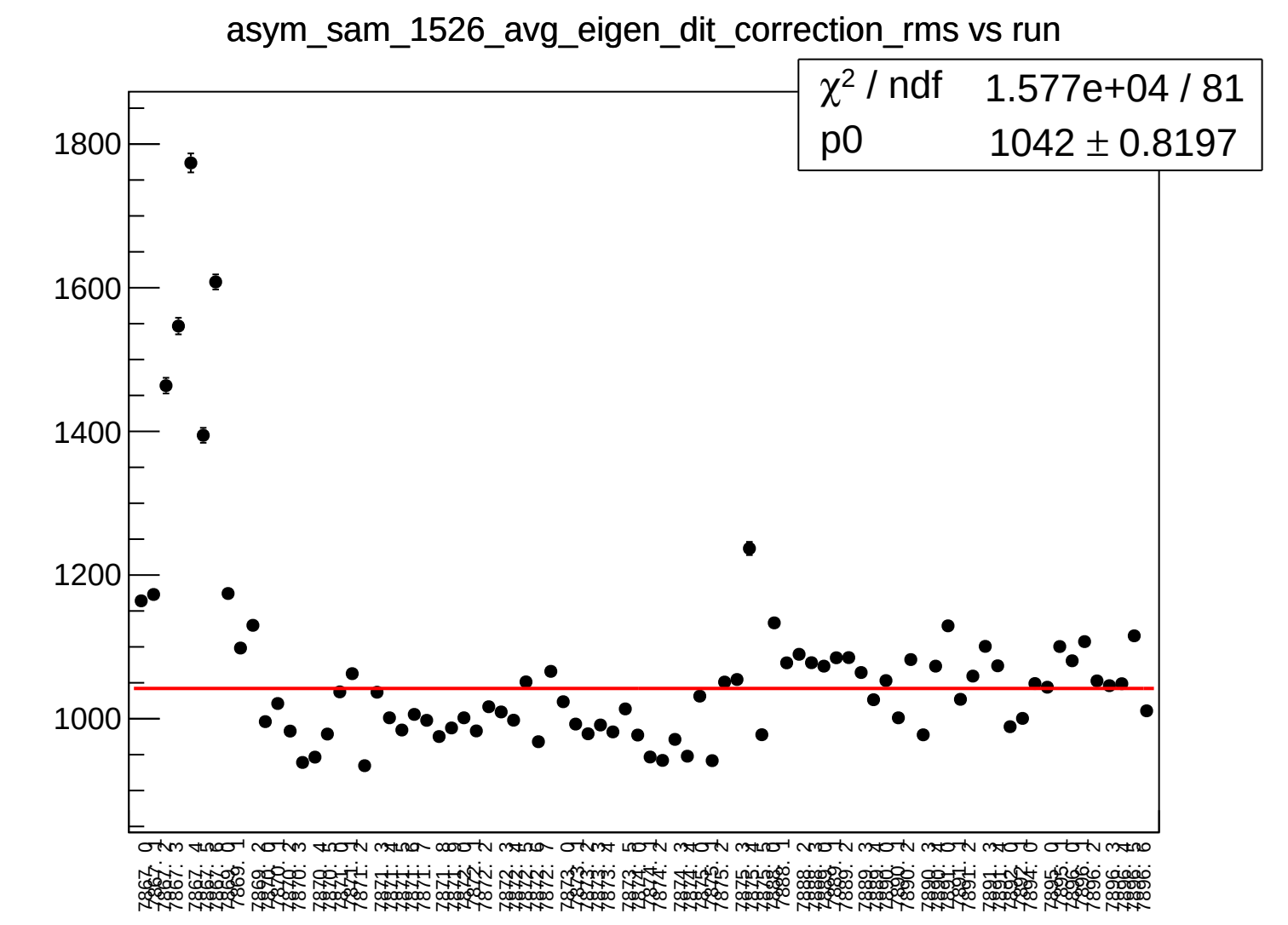

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 81.24 / 81
p0 306 ± 178.2
pull
Entries 82
Mean −21.92
Std Dev 89.91

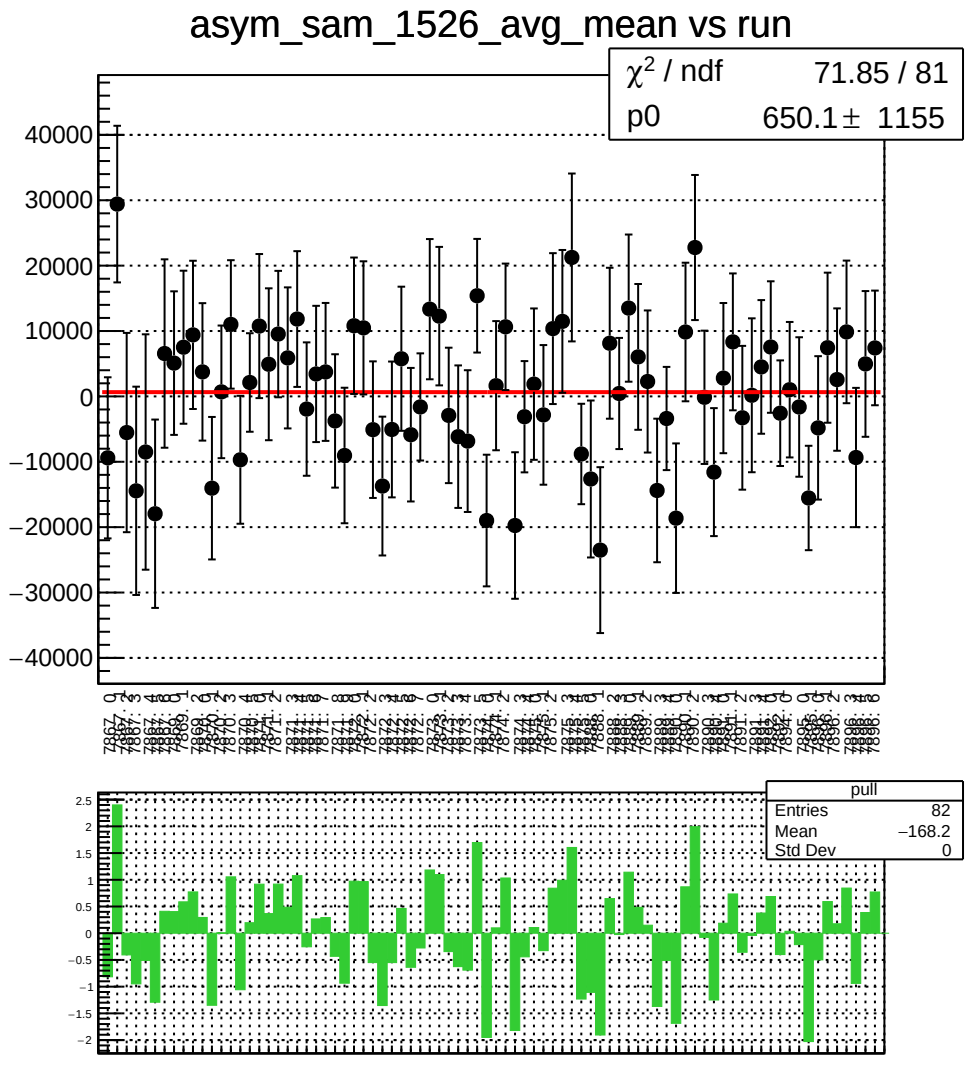

pull1D
Entries 82
Mean 0.007591
Std Dev 0.9953

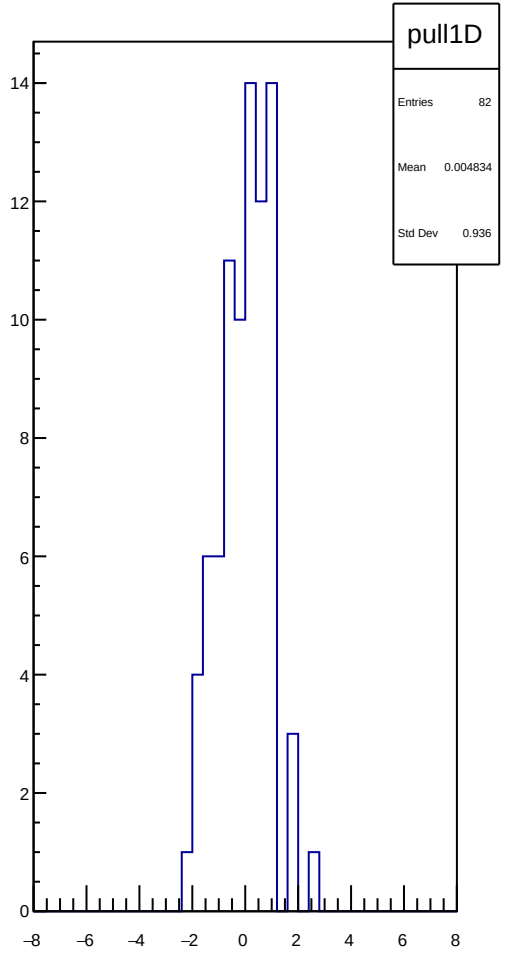

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.635e+04 / 81
p0 158.6 ± 0.126
320
300
280
260
240
220
200
180
160
140
120

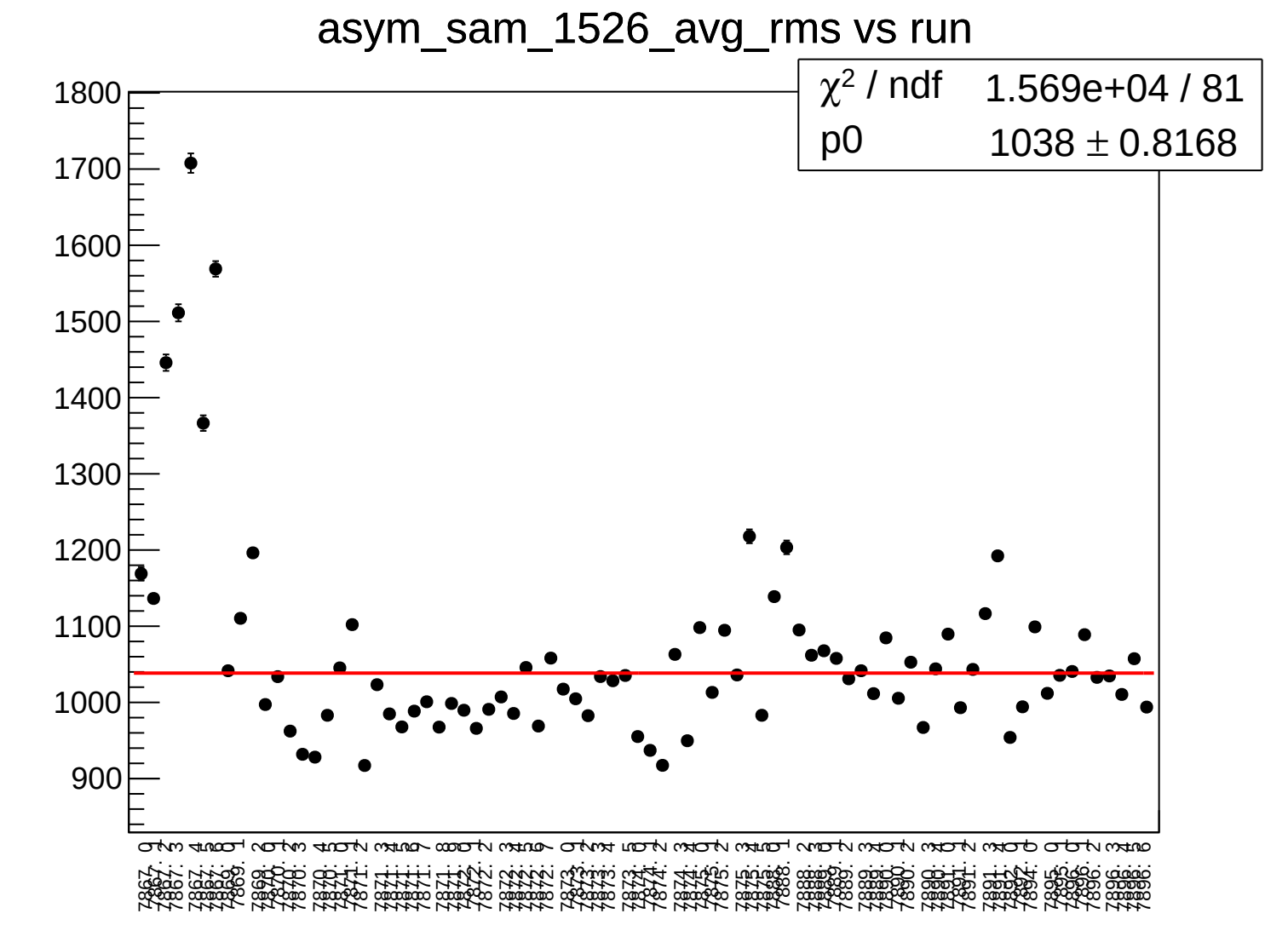

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.47 / 81
p0 −261.3 ± 1159
pull
Entries 82
Mean −87.72
Std Dev 0

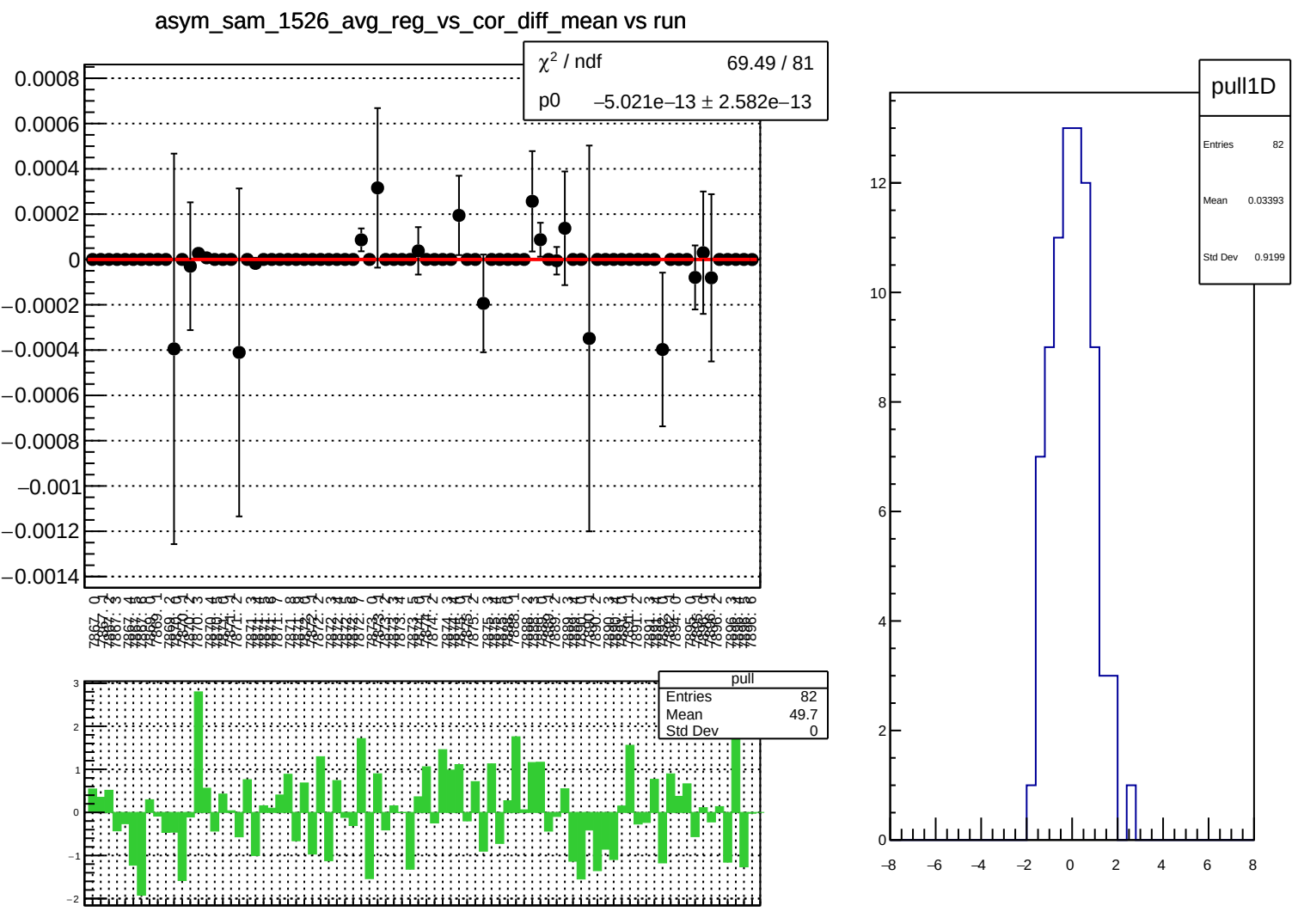

pull1D
Entries 82
Mean −0.006655
Std Dev 0.9204

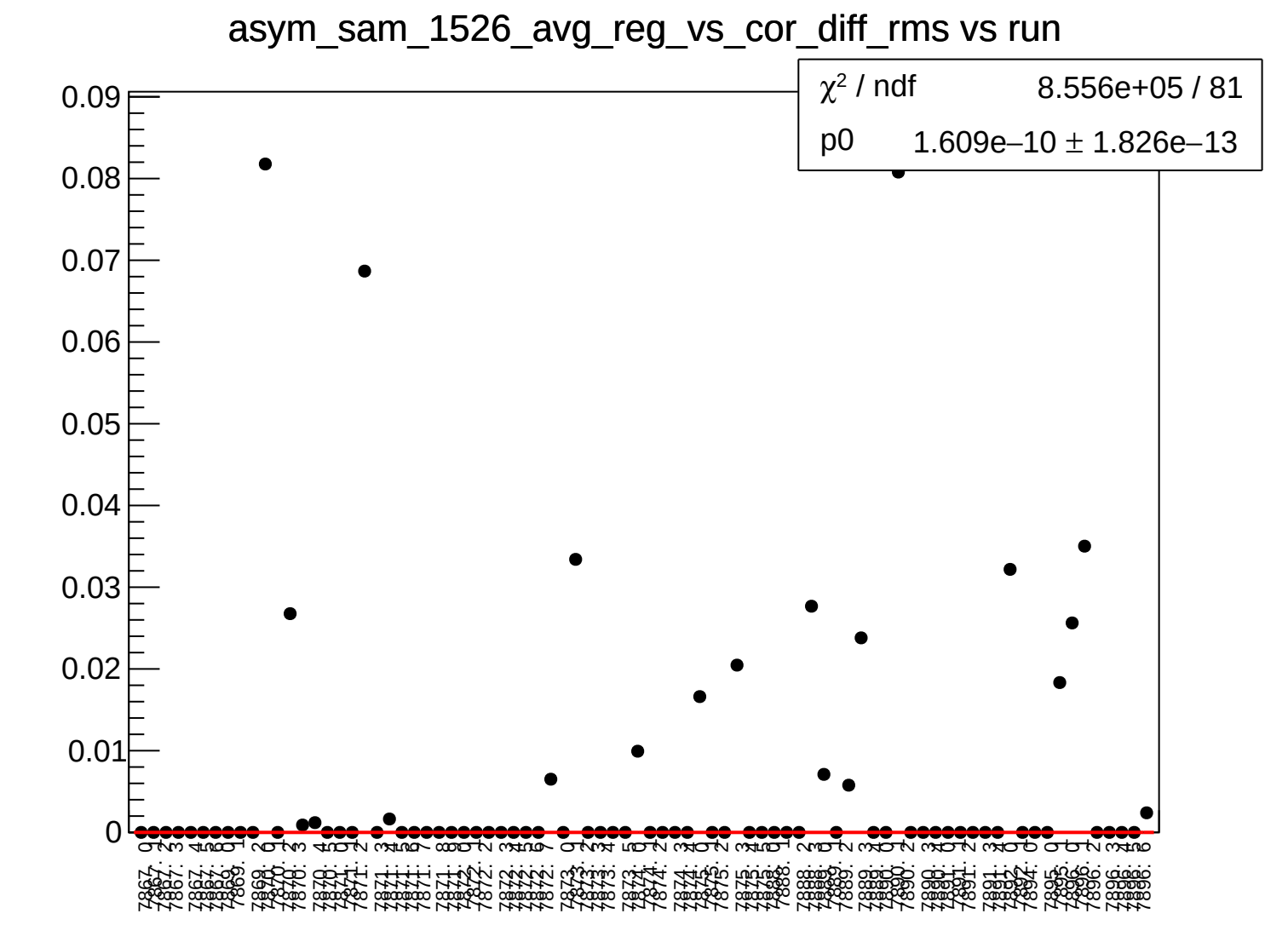

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.577e+04 / 81
p0 1042 ± 0.8197
1800
1600
1400
1200
1000

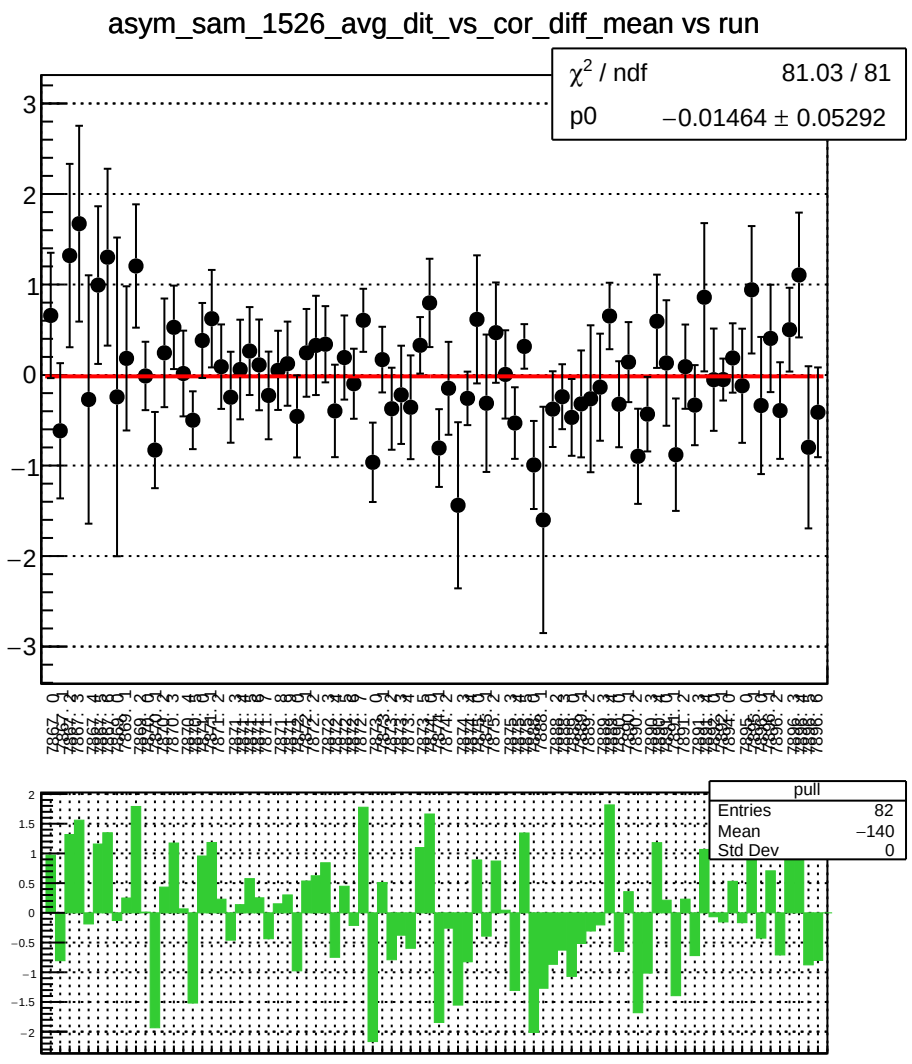

asym_sam_1526_avg_mean vs run
χ² / ndf 71.85 / 81
p0 650.1 ± 1155
pull
Entries 82
Mean −168.2
Std Dev 0

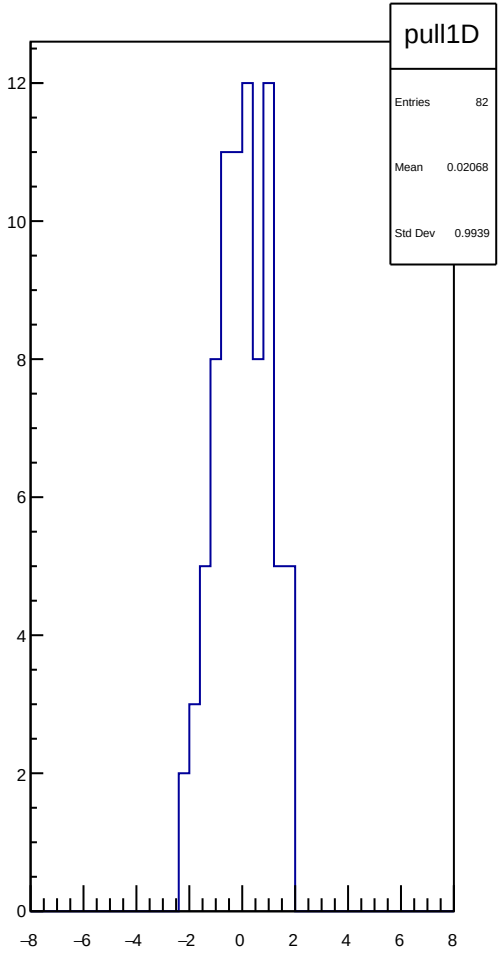

pull1D
Entries 82
Mean 0.004834
Std Dev 0.936

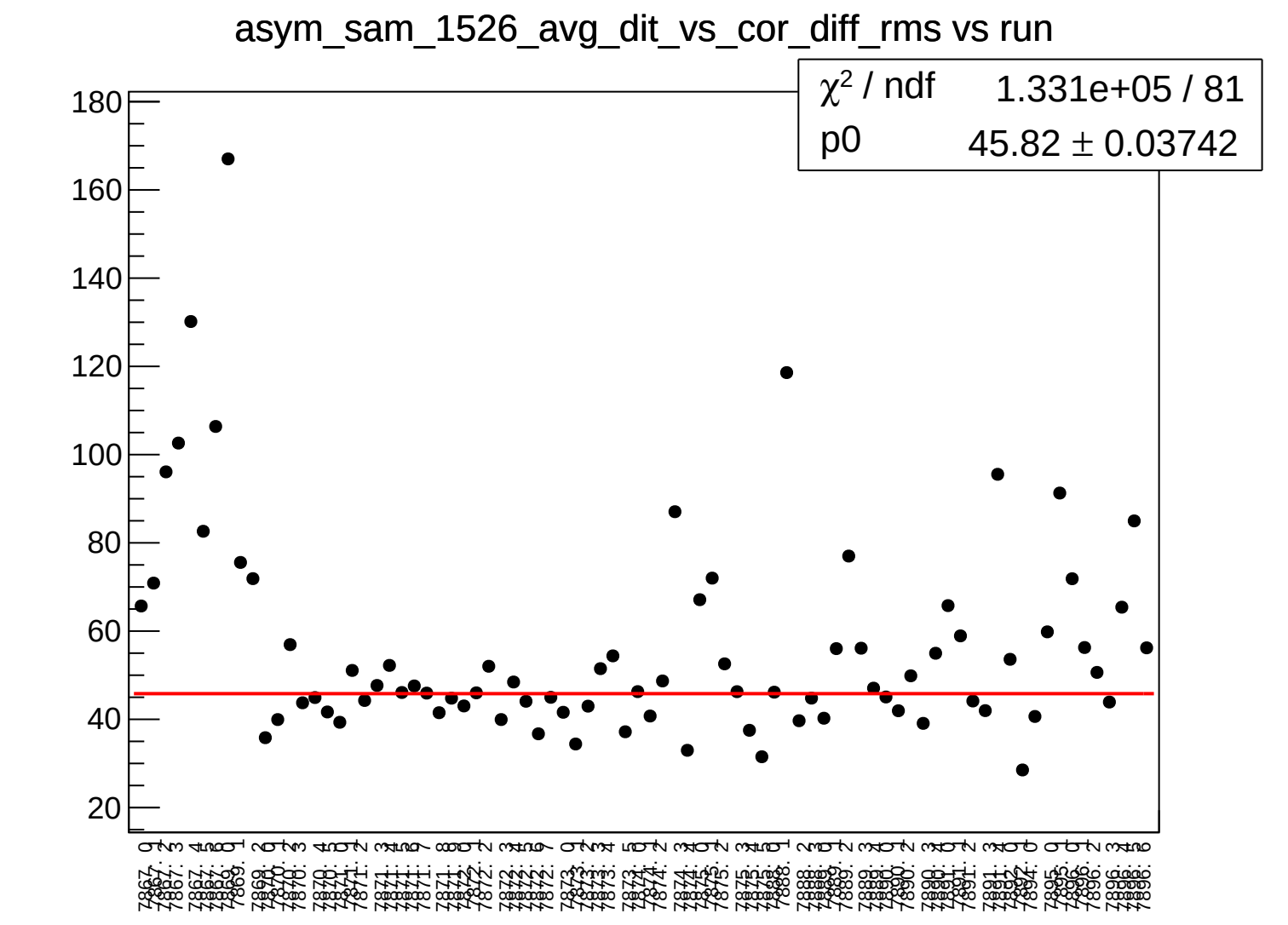

asym_sam_1526_avg_rms vs run
χ² / ndf 1.569e+04 / 81
p0 1038 ± 0.8168
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

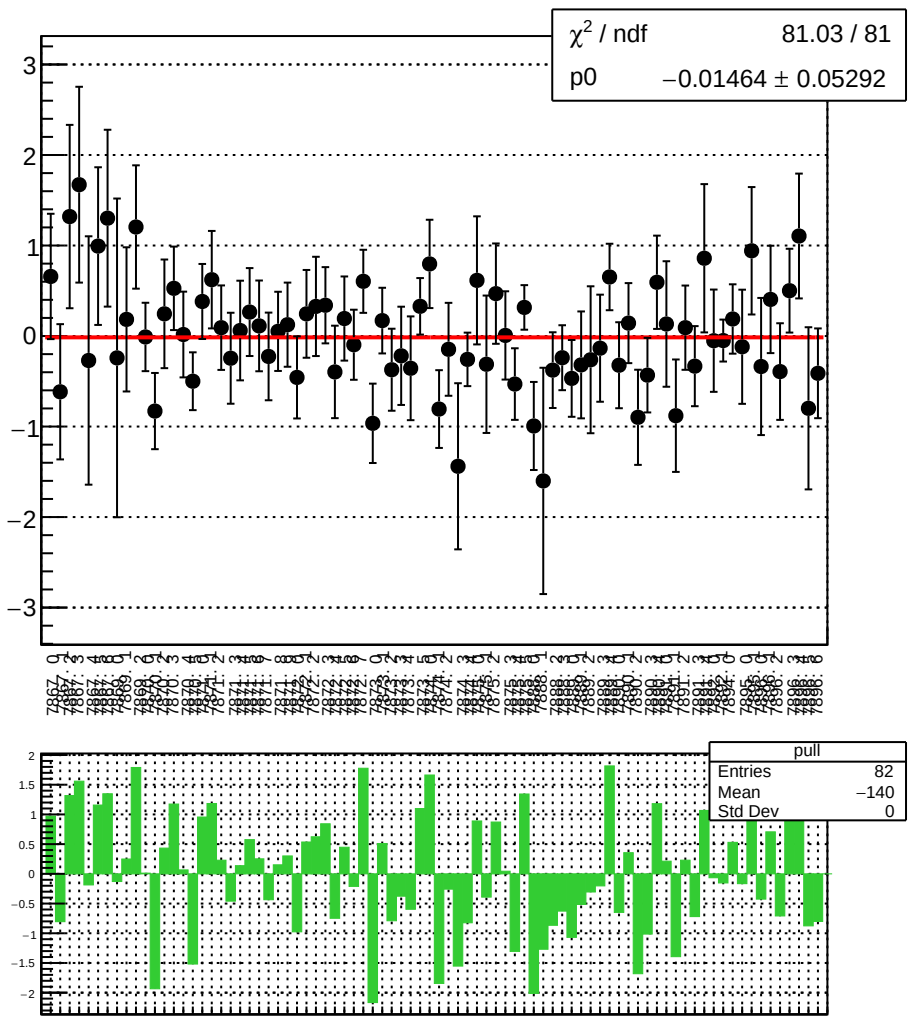

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.49 / 81
p0 −5.021e−13 ± 2.582e−13
pull
Entries 82
Mean 49.7
Std Dev 0
pull1D
Entries 82
Mean 0.03393
Std Dev 0.9199

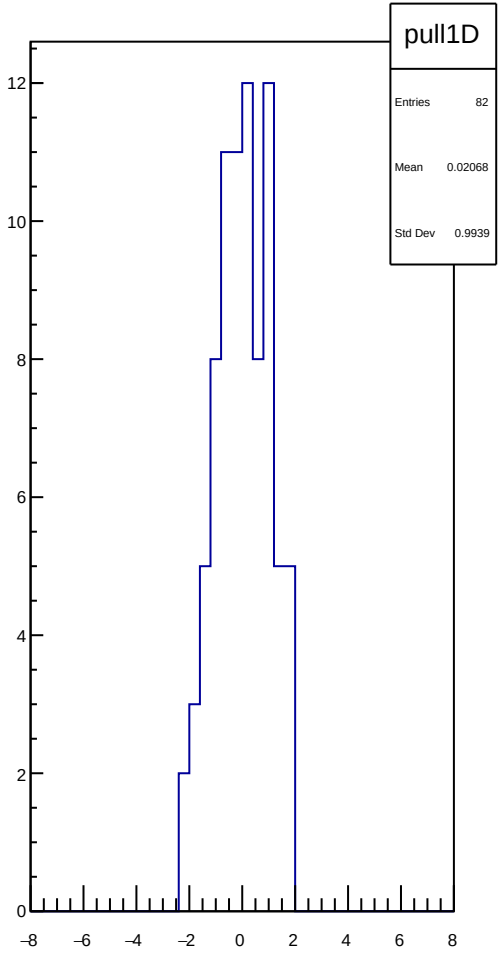

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.556e+05 / 81
p0 1.609e−10 ± 1.826e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

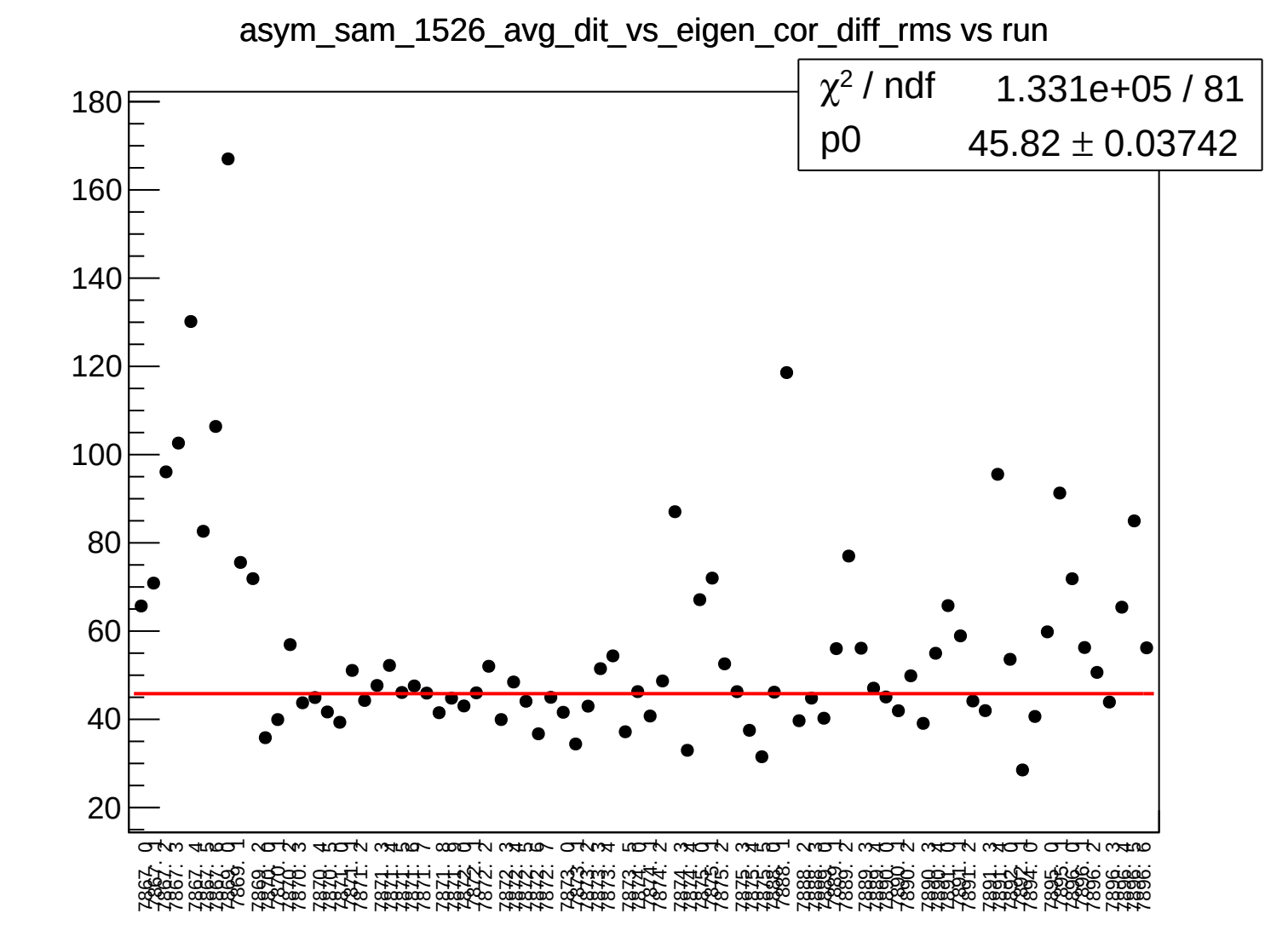

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.03 / 81
p0 −0.01464 ± 0.05292
pull
Entries 82
Mean −140
Std Dev 0

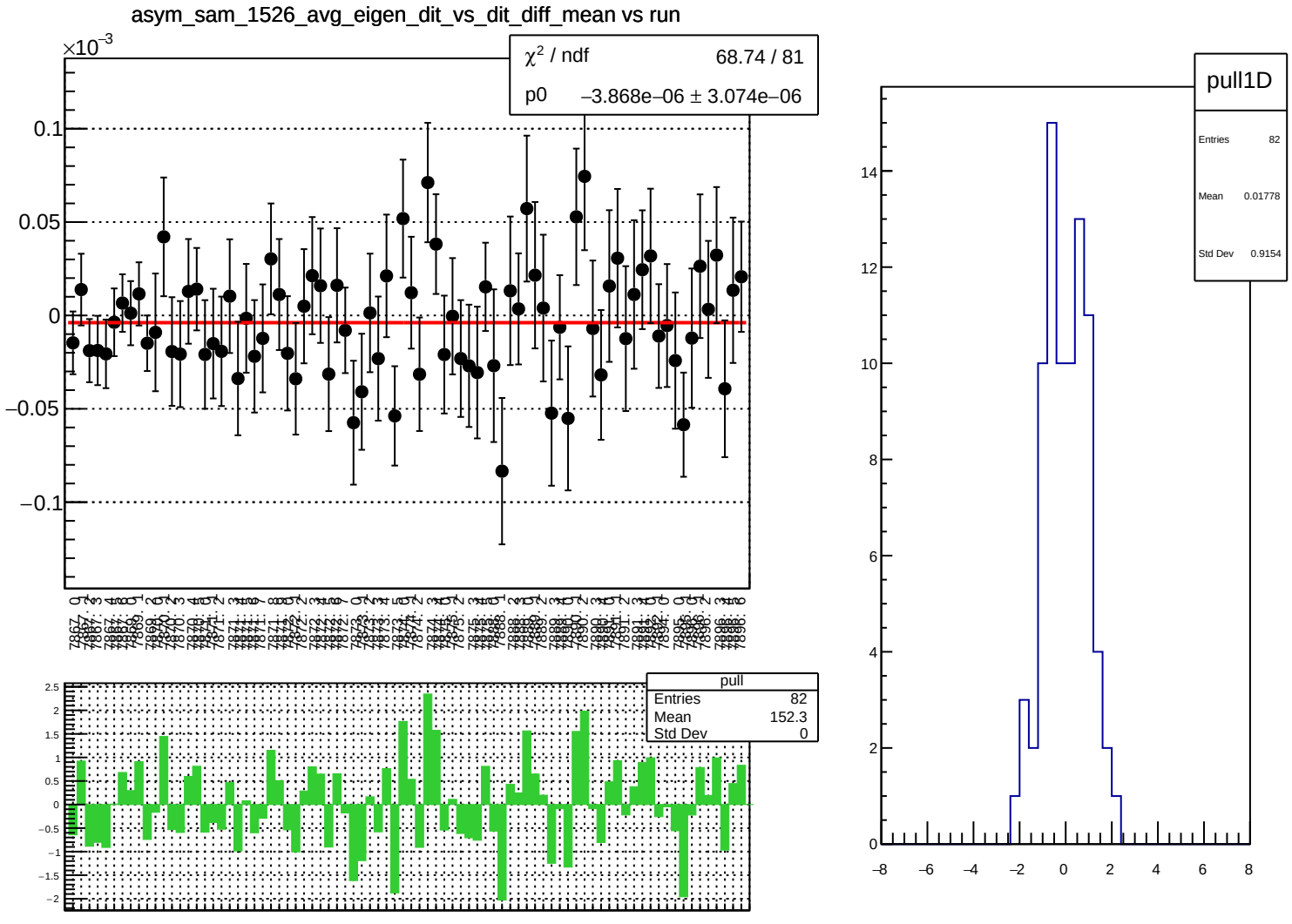

pull1D
Entries 82
Mean 0.02068
Std Dev 0.9939

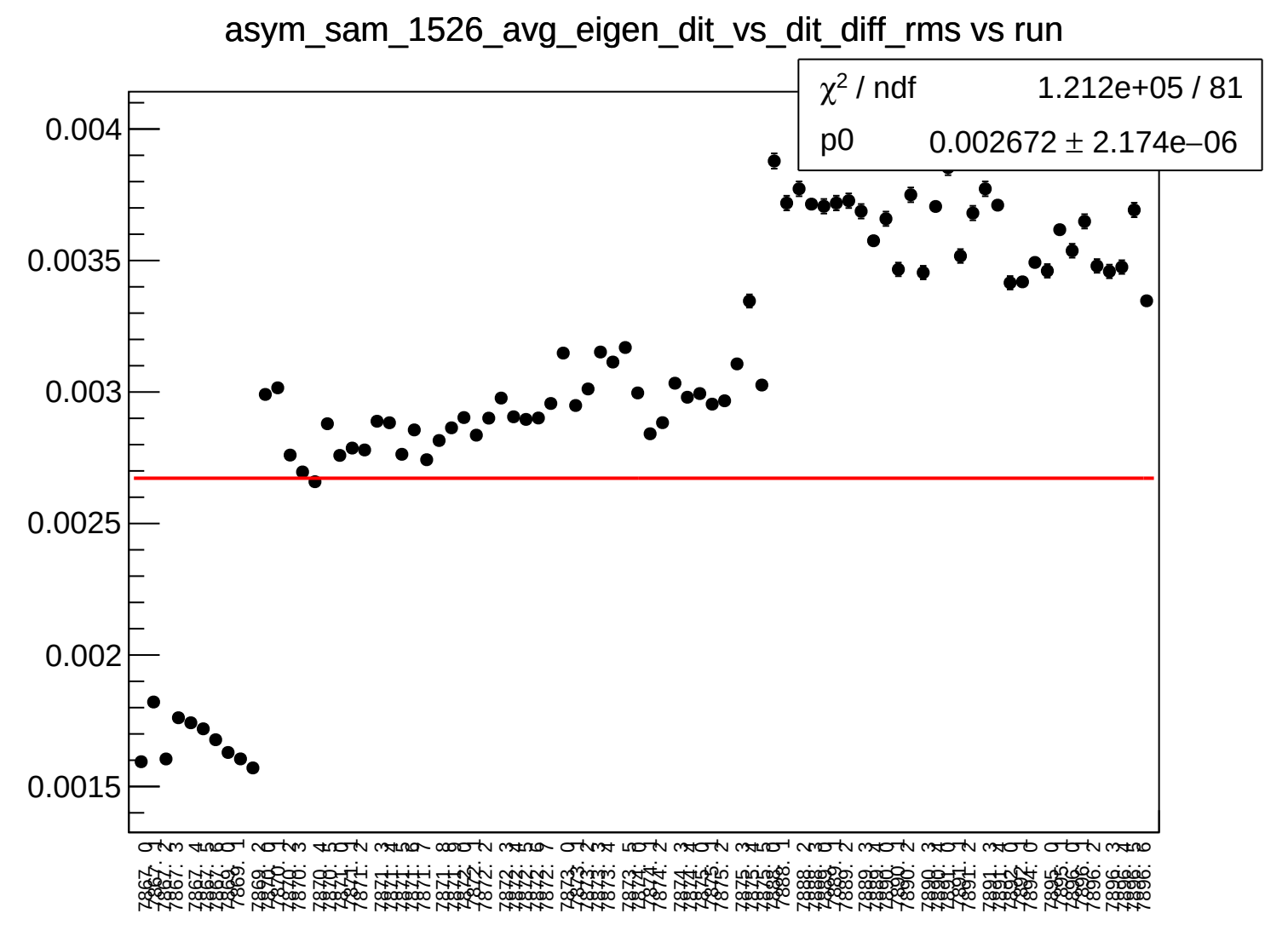

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 81
p0 45.82 ± 0.03742
180
160
140
120
100
80
60
40
20

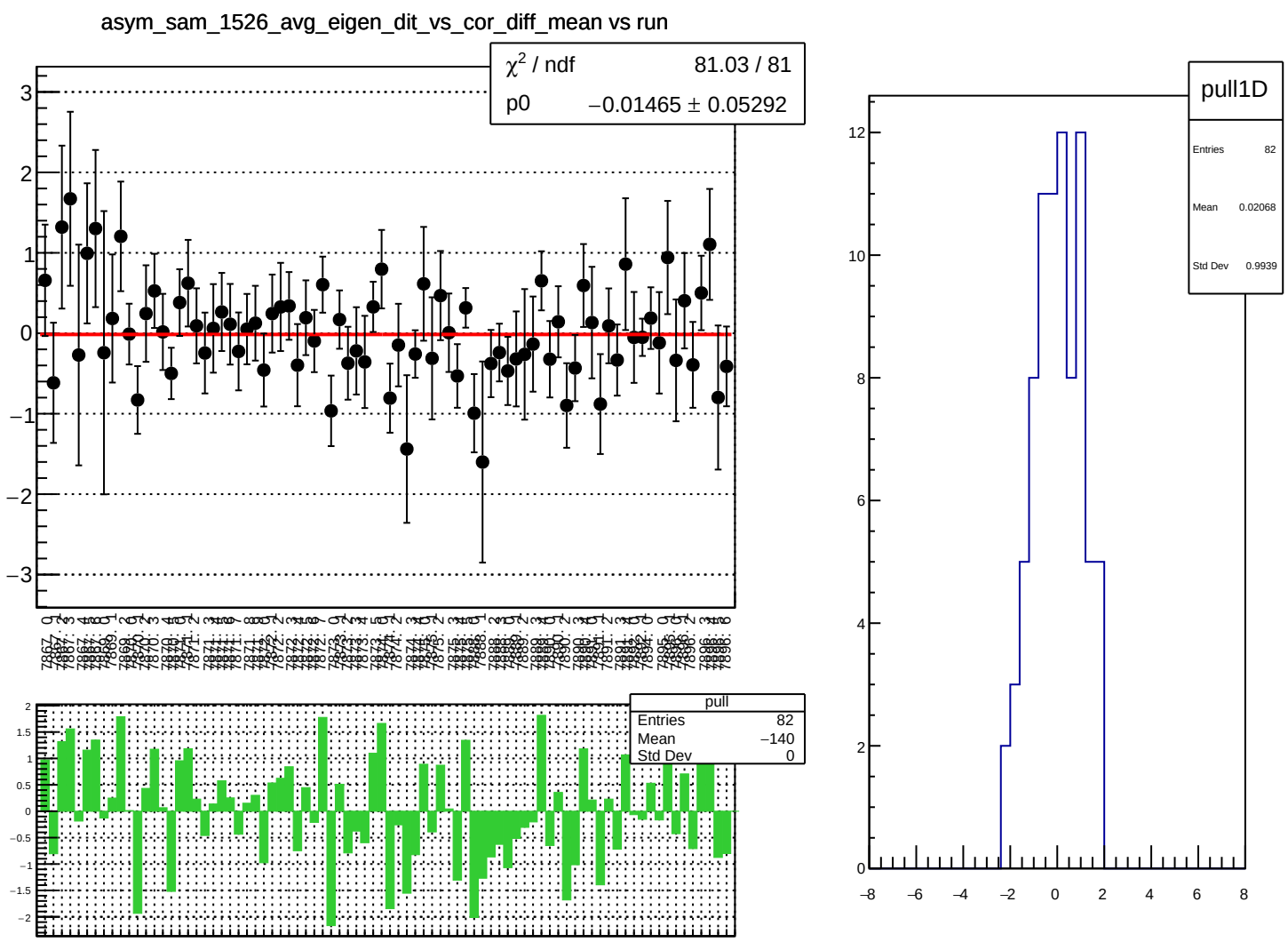

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.03 / 81
p0 −0.01464 ± 0.05292
pull
Entries 82
Mean −140
Std Dev 0

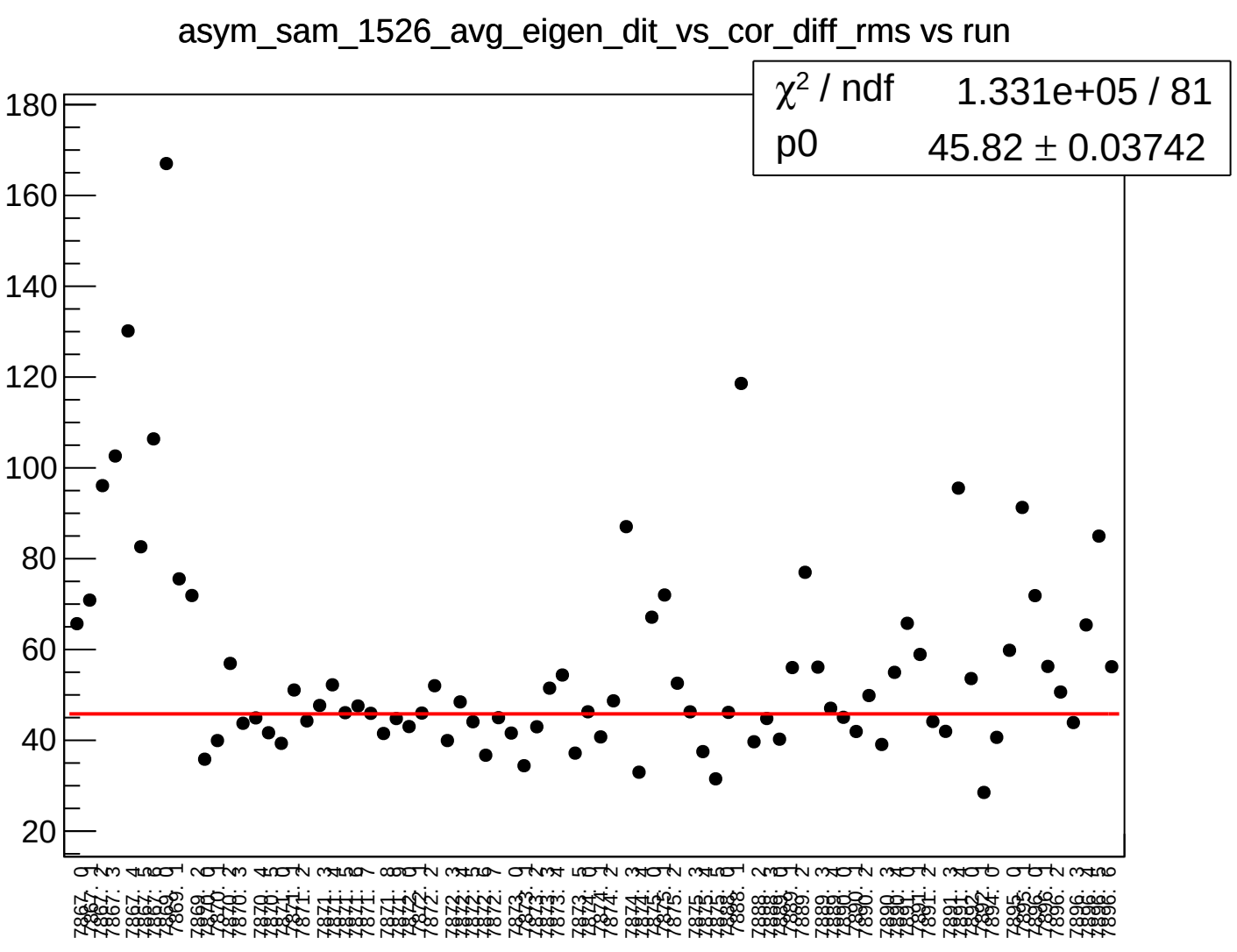

pull1D
Entries 82
Mean 0.02068
Std Dev 0.9939

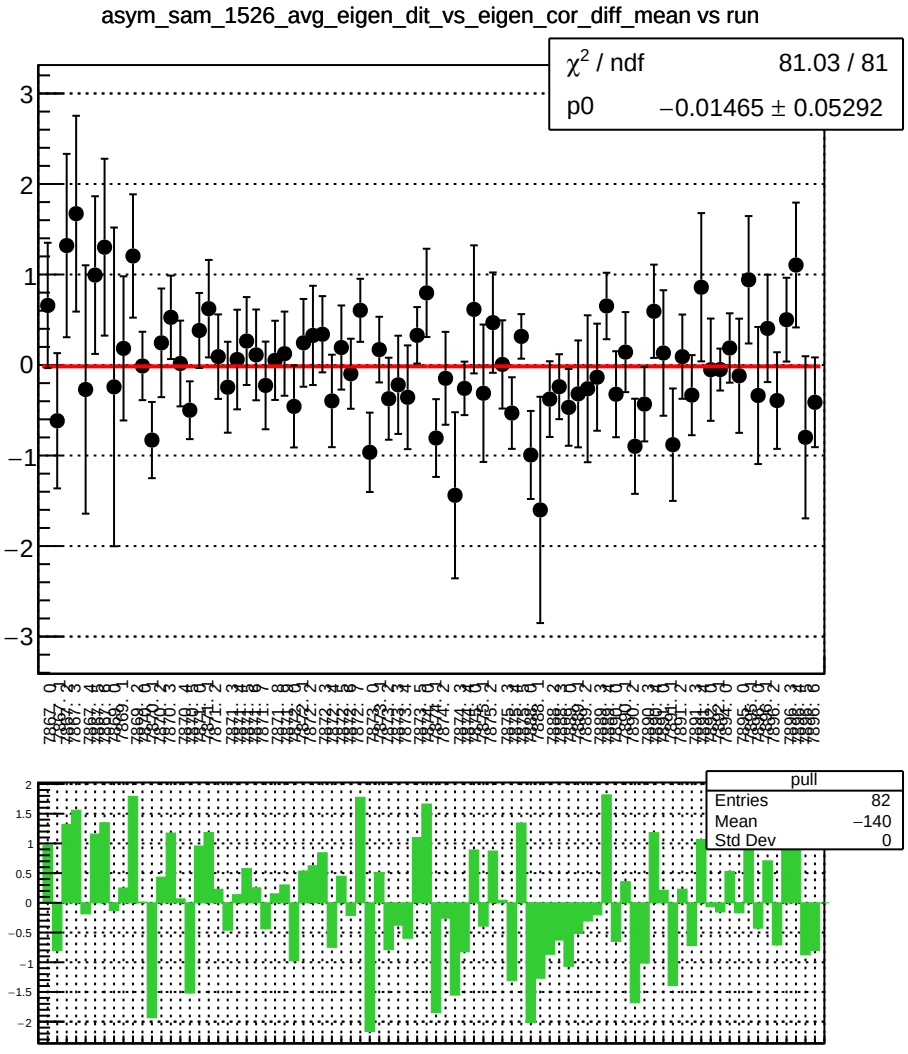

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 81
p0 45.82 ± 0.03742
180
160
140
120
100
80
60
40
20

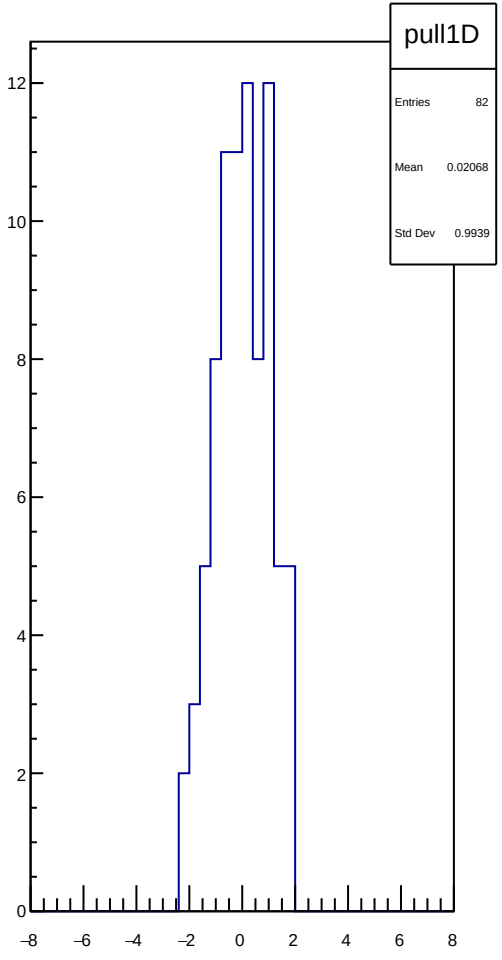

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.74 / 81
p0 −3.868e−06 ± 3.074e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 152.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.01778
Std Dev 0.9154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

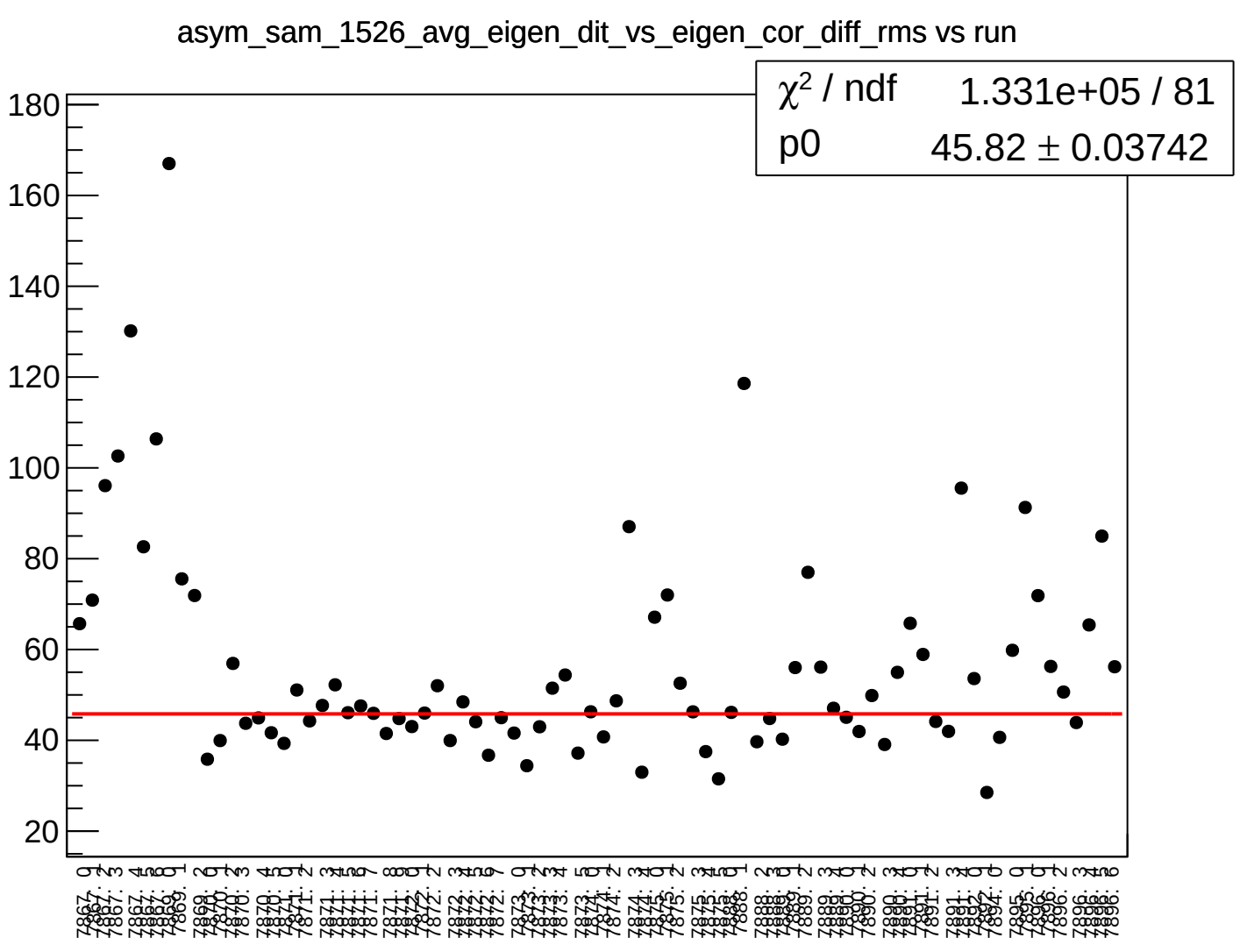

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.212e+05 / 81
p0 0.002672 ± 2.174e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

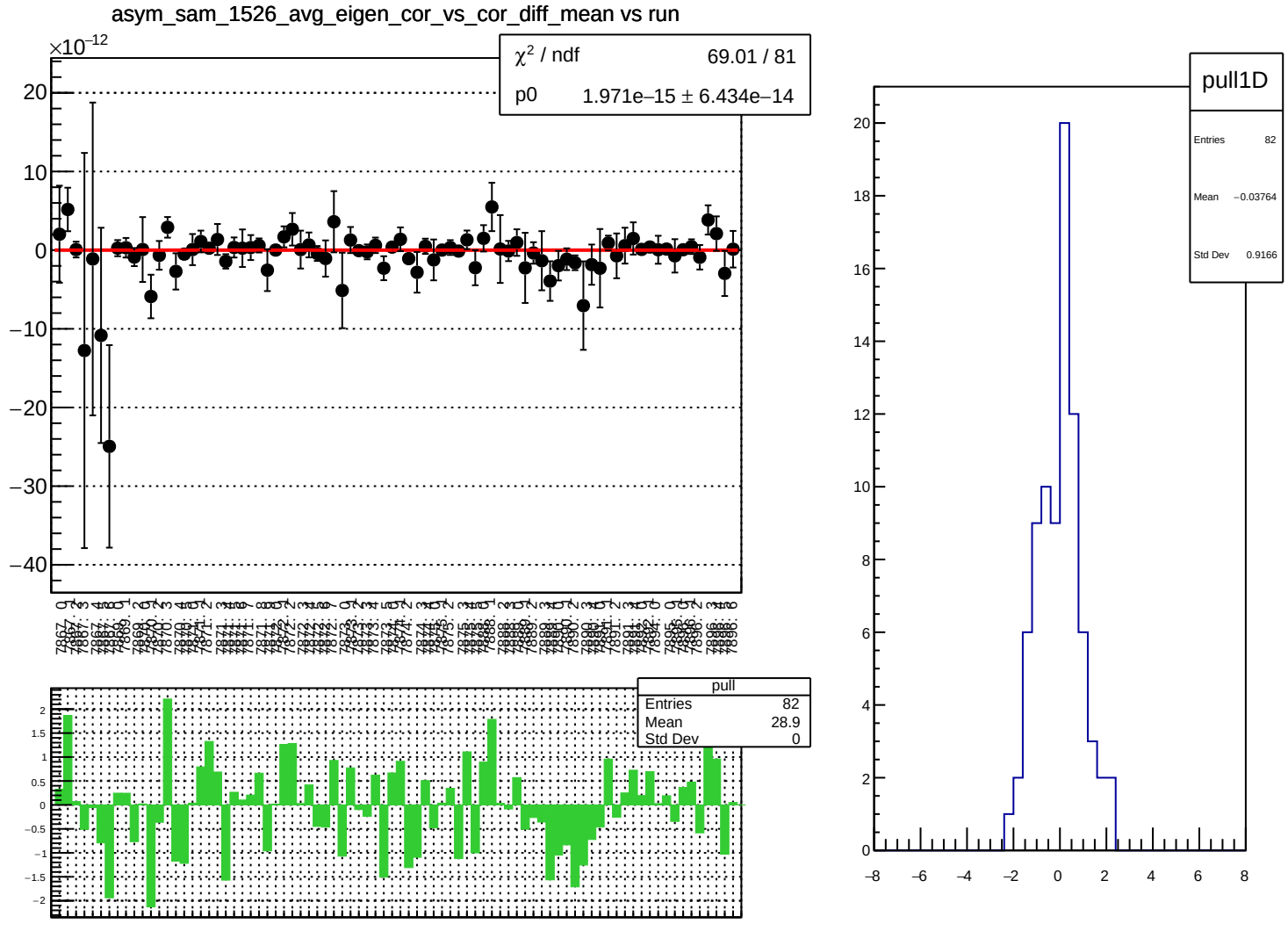

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.03 / 81
p0 −0.01465 ± 0.05292
pull
Entries 82
Mean −140
Std Dev 0
pull1D
Entries 82
Mean 0.02068
Std Dev 0.9939

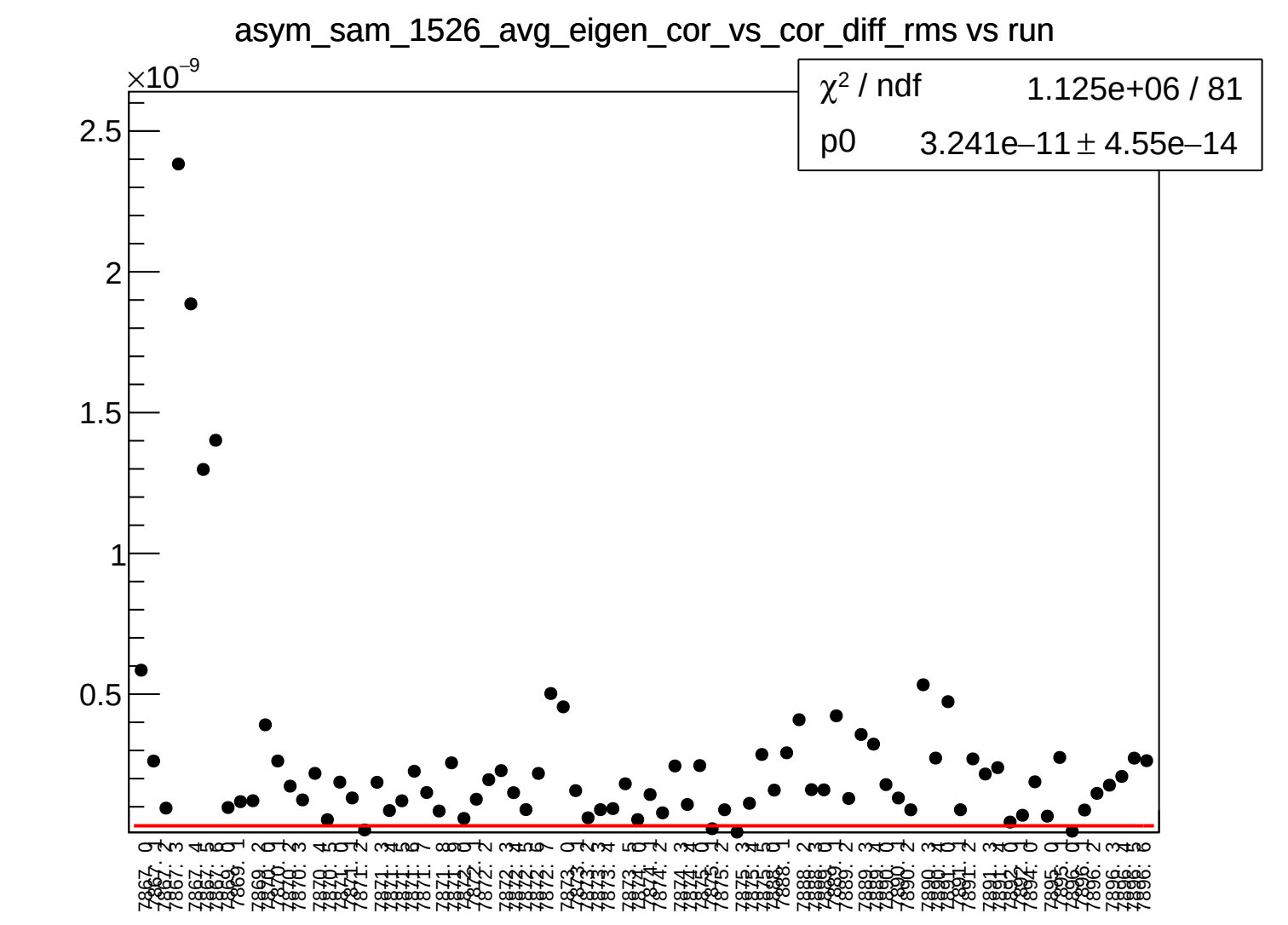

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 81
p0 45.82 ± 0.03742
180
160
140
120
100
80
60
40
20

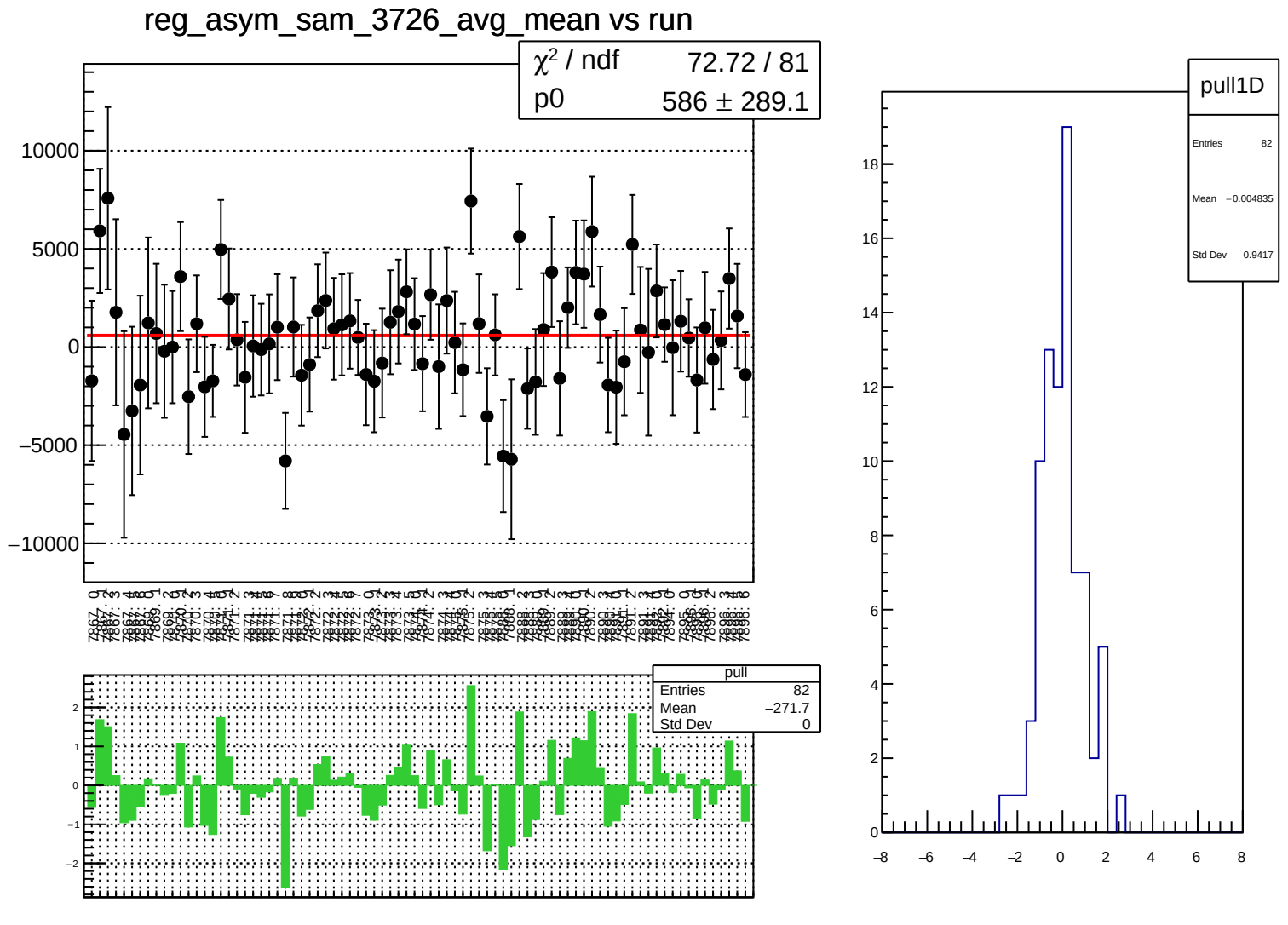

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.03 / 81
p0 −0.01465 ± 0.05292
pull
Entries 82
Mean −140
Std Dev 0

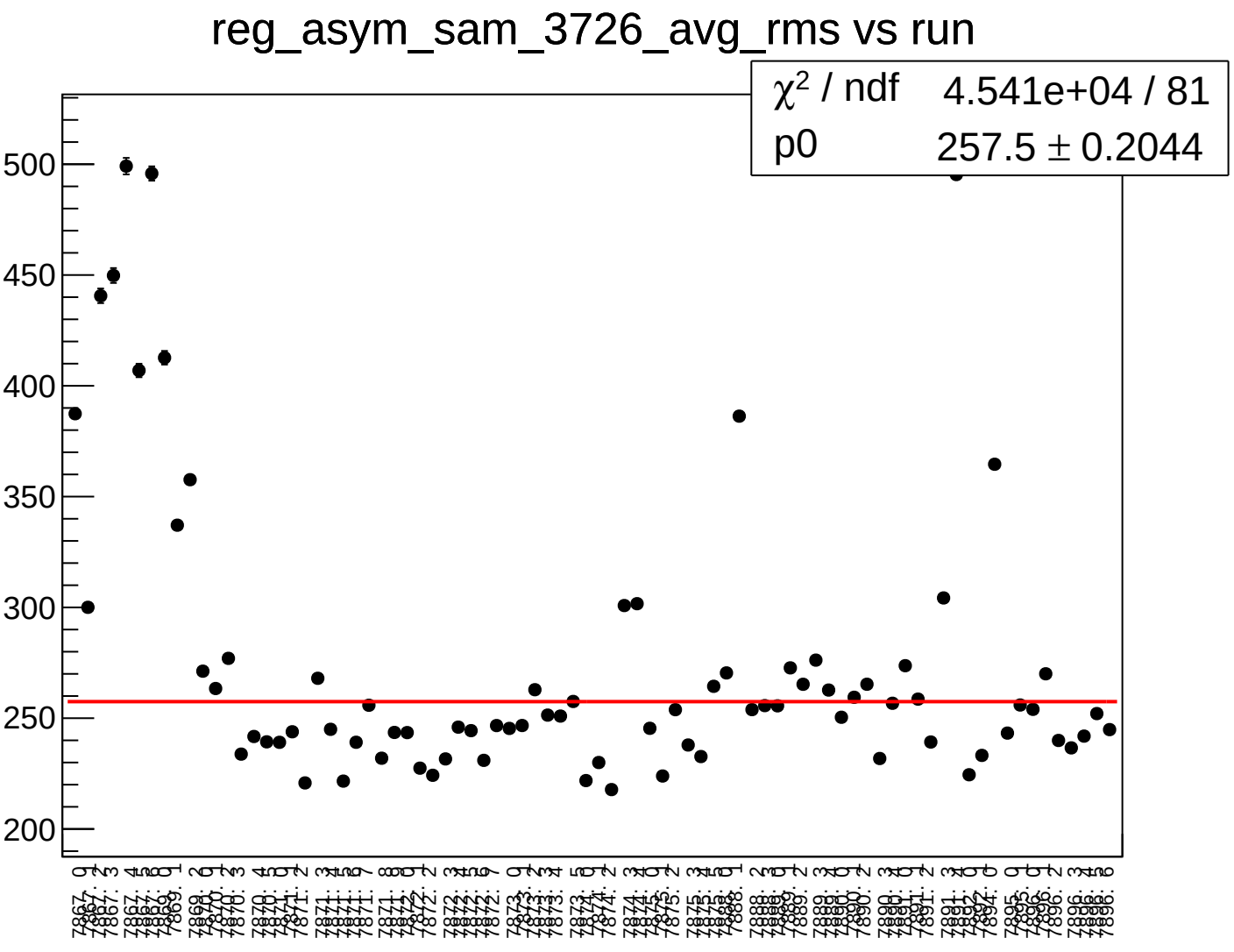

pull1D
Entries 82
Mean 0.02068
Std Dev 0.9939

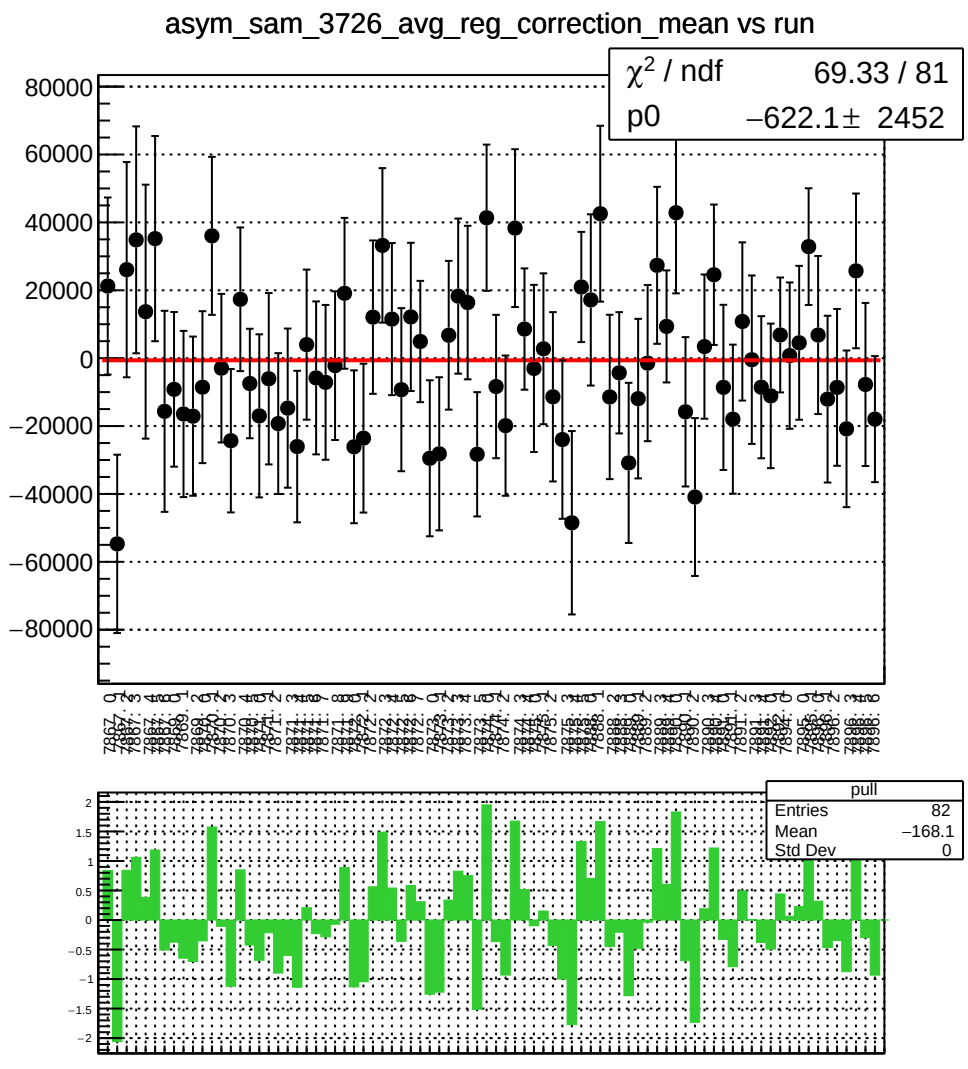

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 81
p0 45.82 ± 0.03742
180
160
140
120
100
80
60
40
20

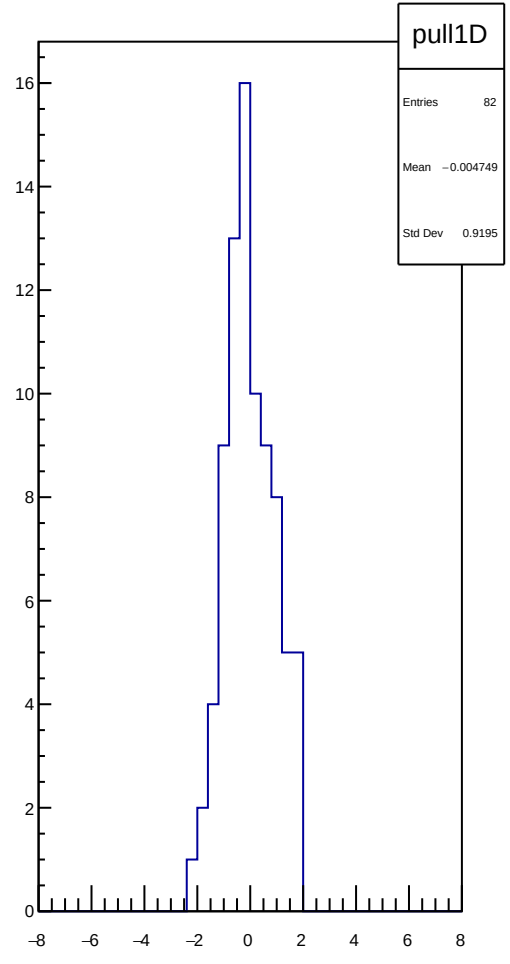

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.01 / 81
p0 1.971e−15 ± 6.434e−14
pull
Entries 82
Mean 28.9
Std Dev 0
pull1D
Entries 82
Mean −0.03764
Std Dev 0.9166

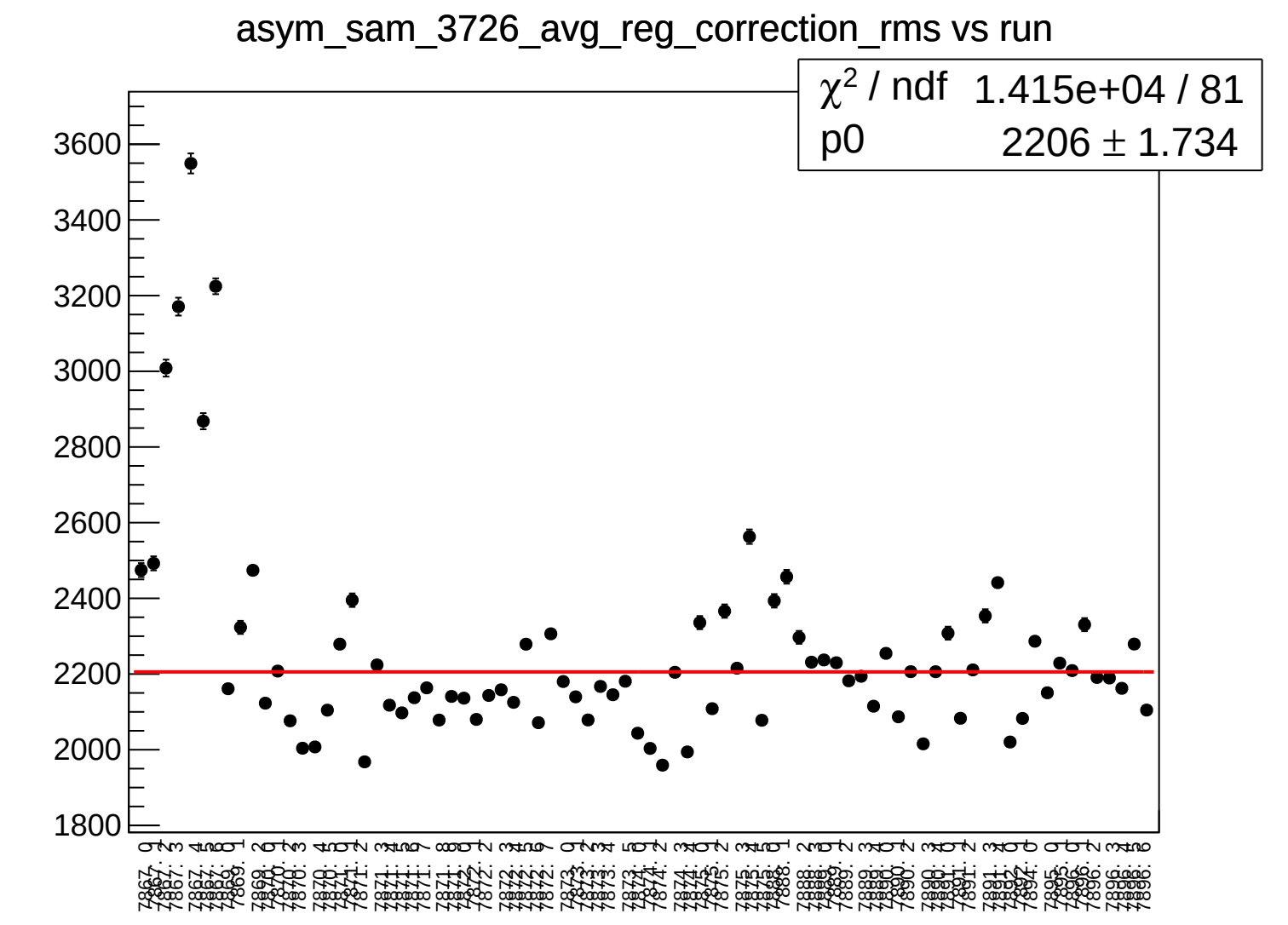

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.125e+06 / 81
p0 3.241e−11 ± 4.55e−14
2.5
2
1.5
1
0.5

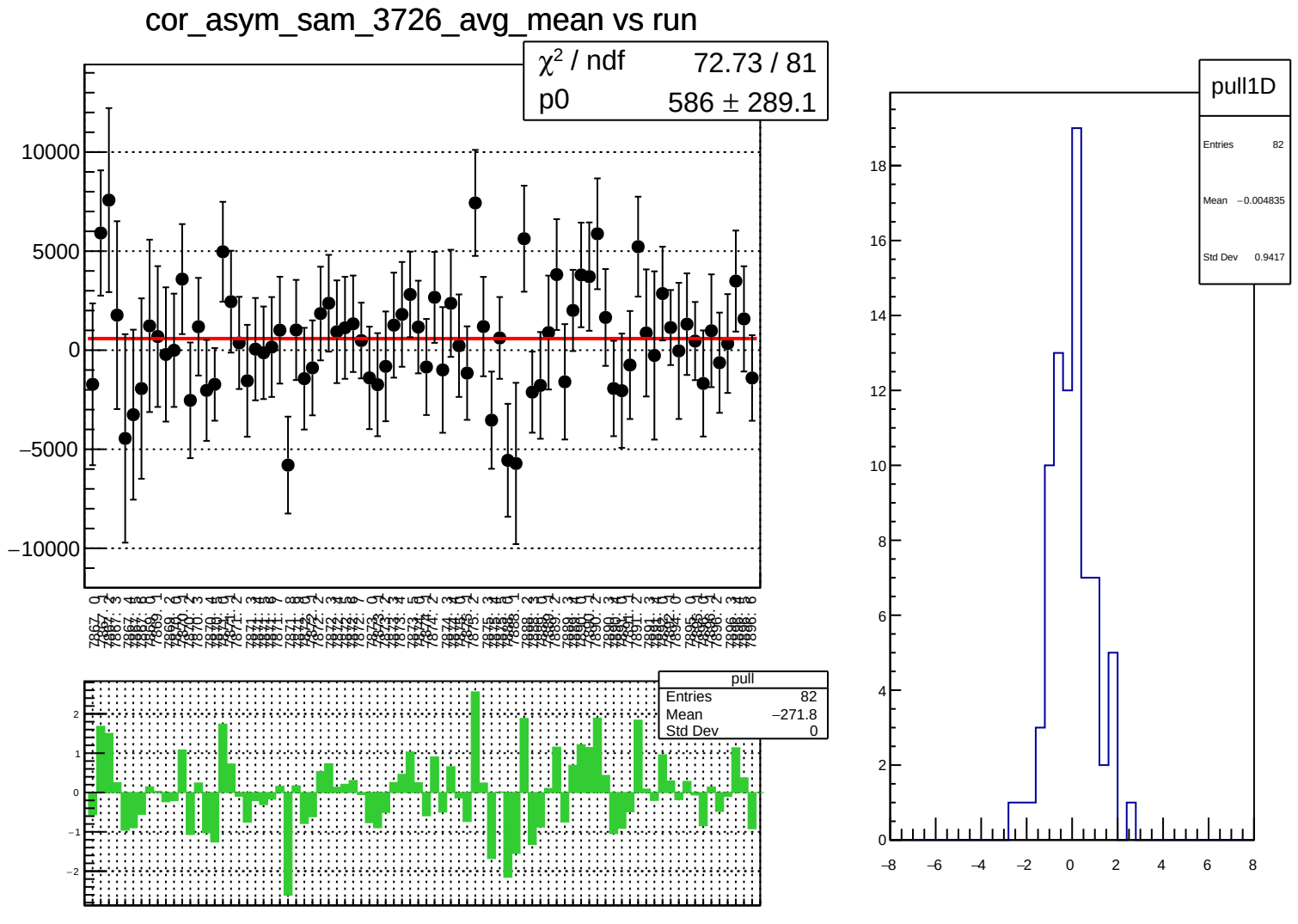

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 72.72 / 81
p0 586 ± 289.1
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −271.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.004835
Std Dev 0.9417
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

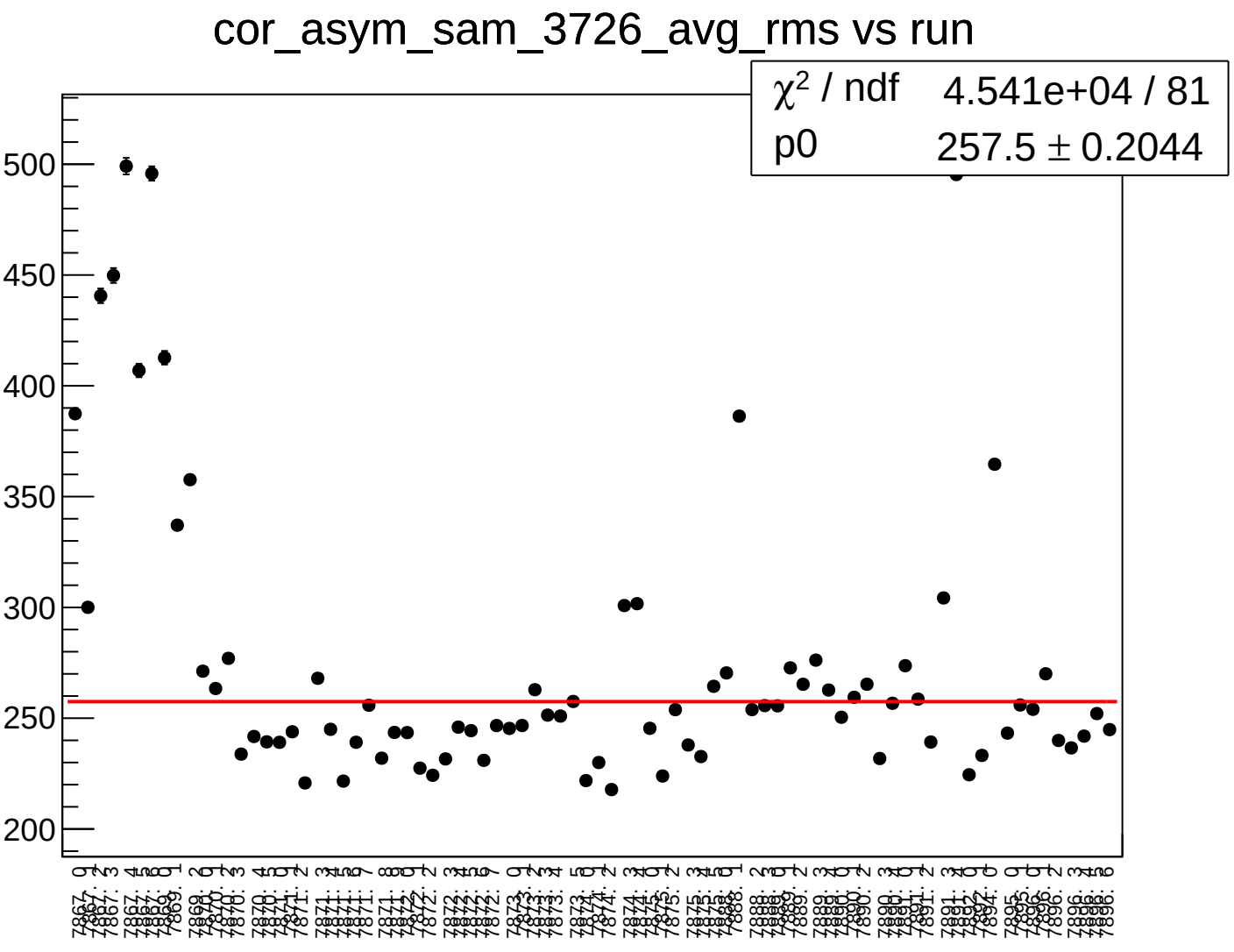

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4.541e+04 / 81
p0 257.5 ± 0.2044
500
450
400
350
300
250
200

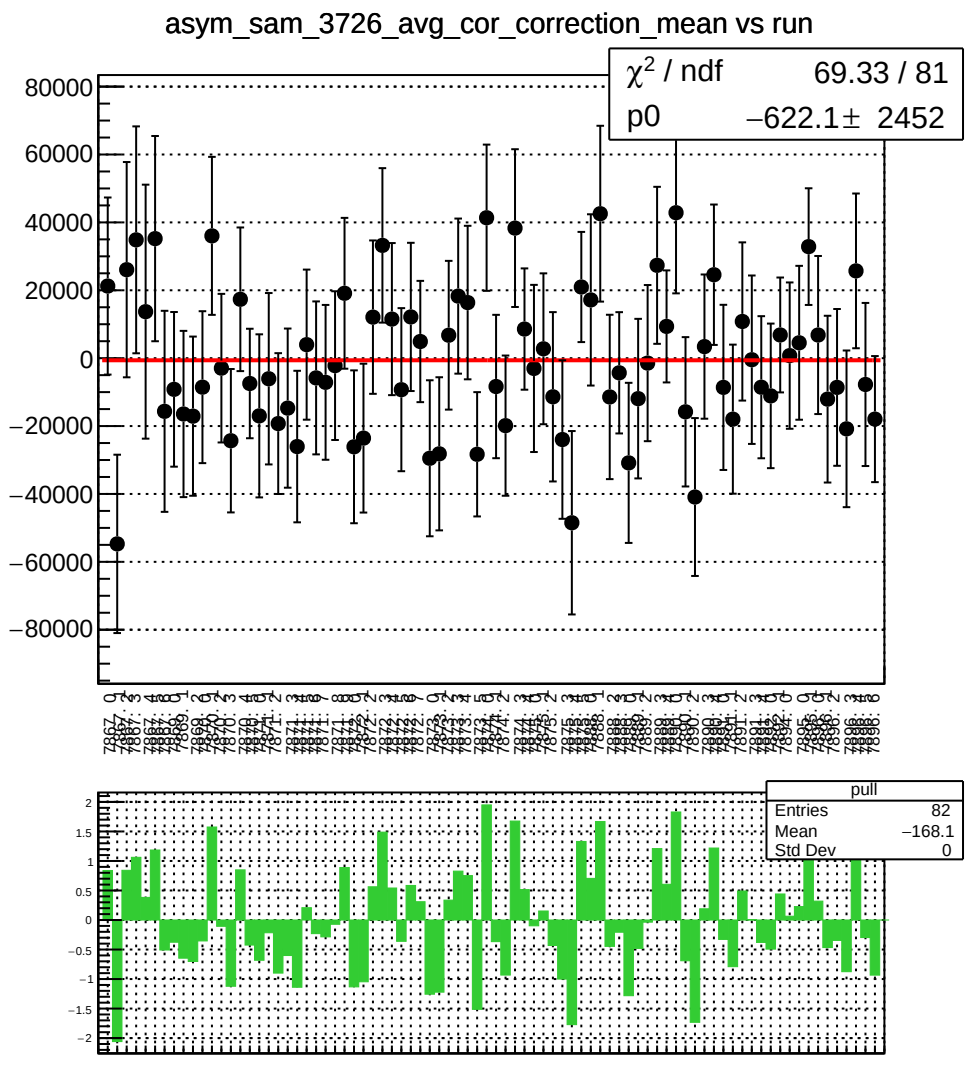

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 69.33 / 81
p0 −622.1± 2452
pull
Entries 82
Mean −168.1
Std Dev 0

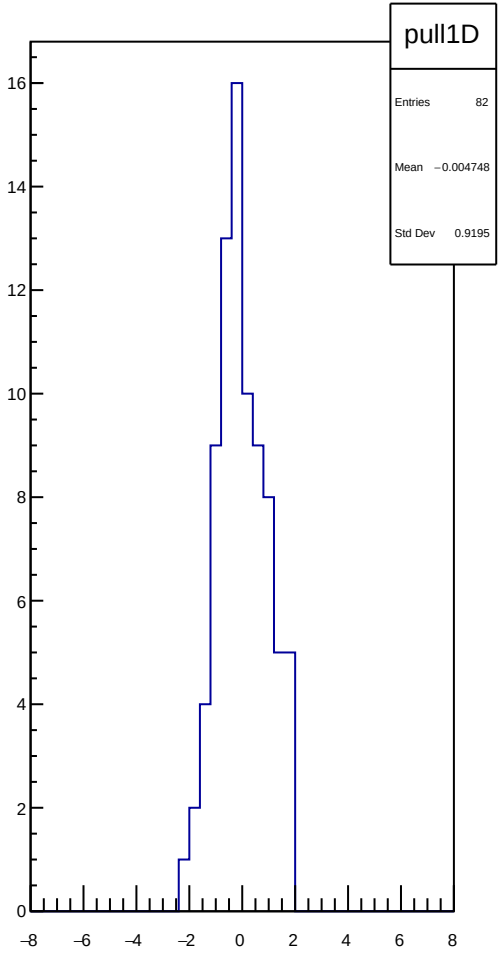

pull1D
Entries 82
Mean −0.004749
Std Dev 0.9195

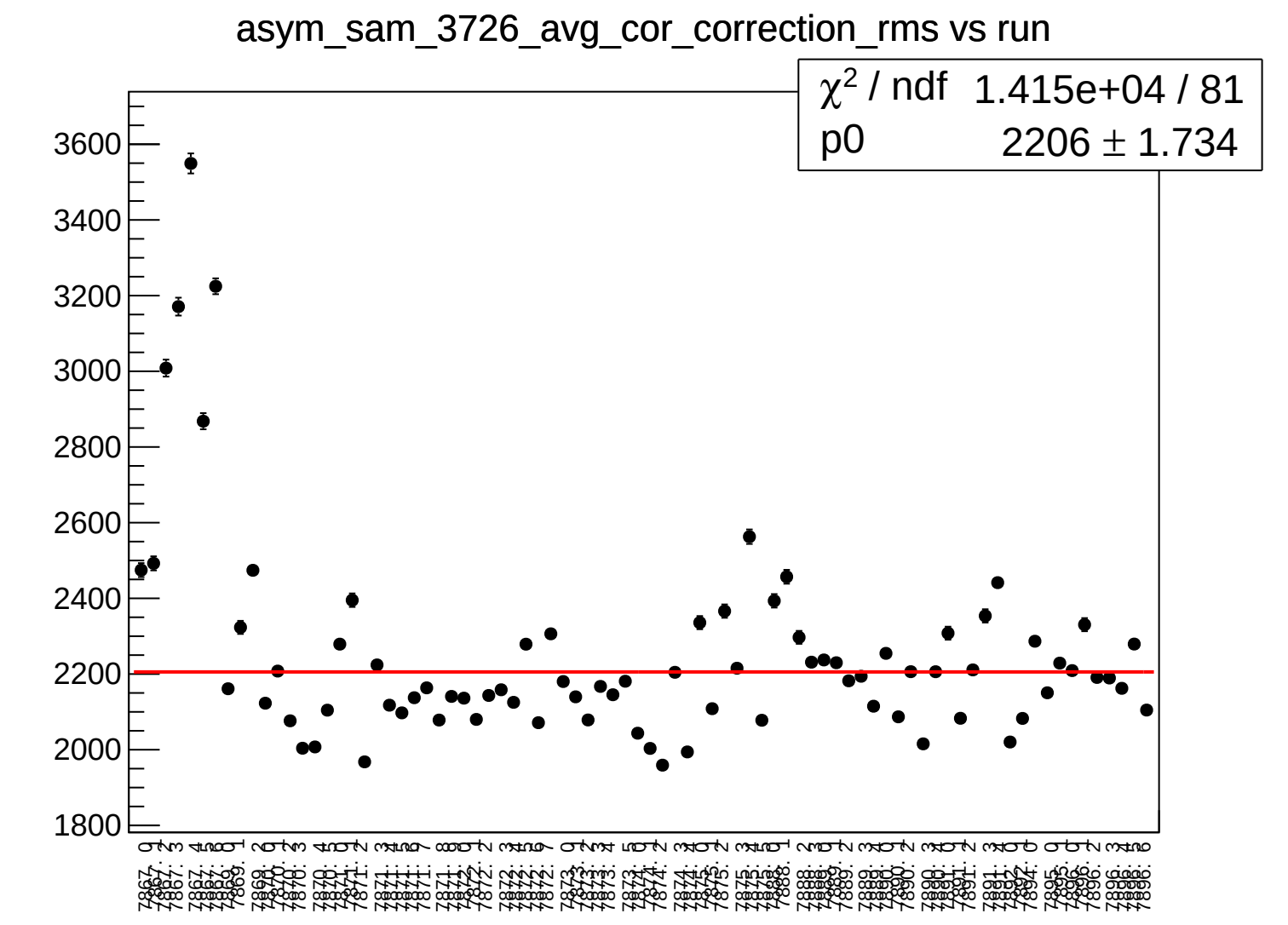

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.415e+04 / 81
p0 2206 ± 1.734
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

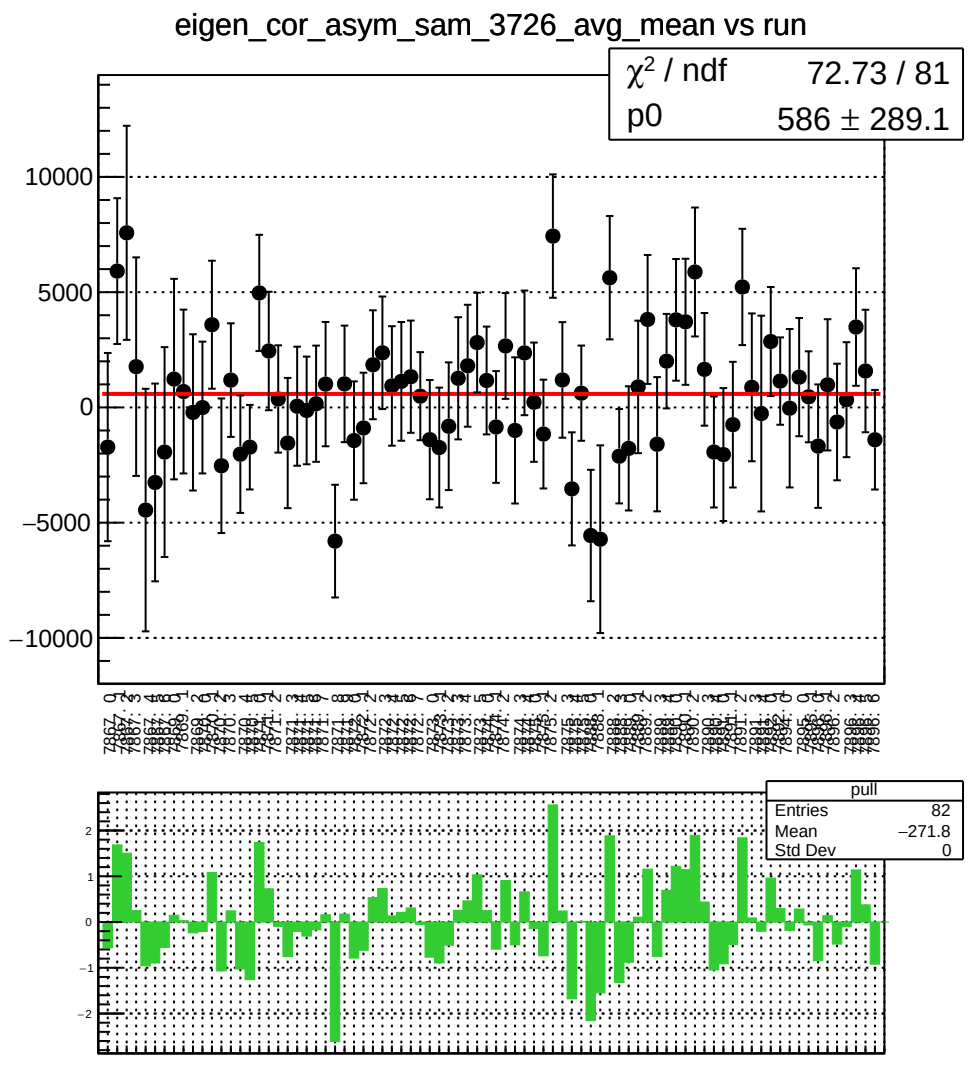

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 72.73 / 81
p0 586 ± 289.1
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −271.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.004835
Std Dev 0.9417
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

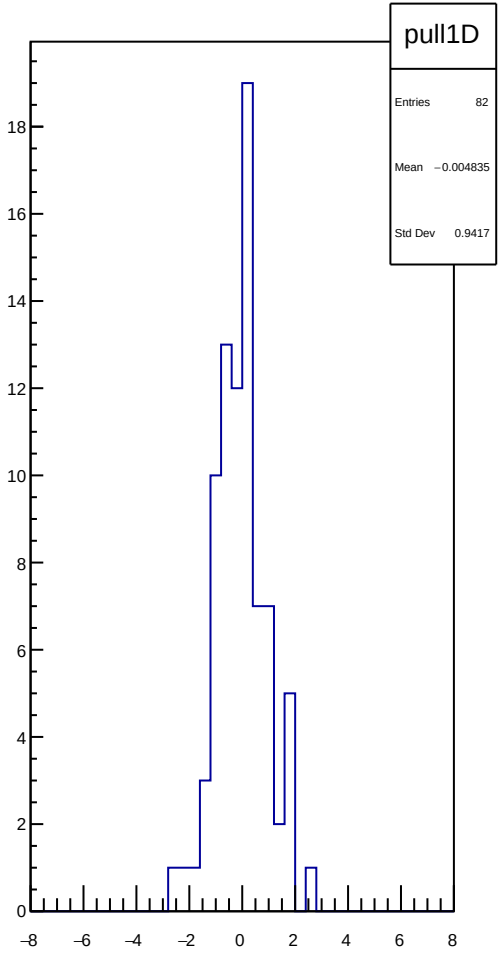

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.541e+04 / 81
p0 257.5 ± 0.2044
500
450
400
350
300
250
200

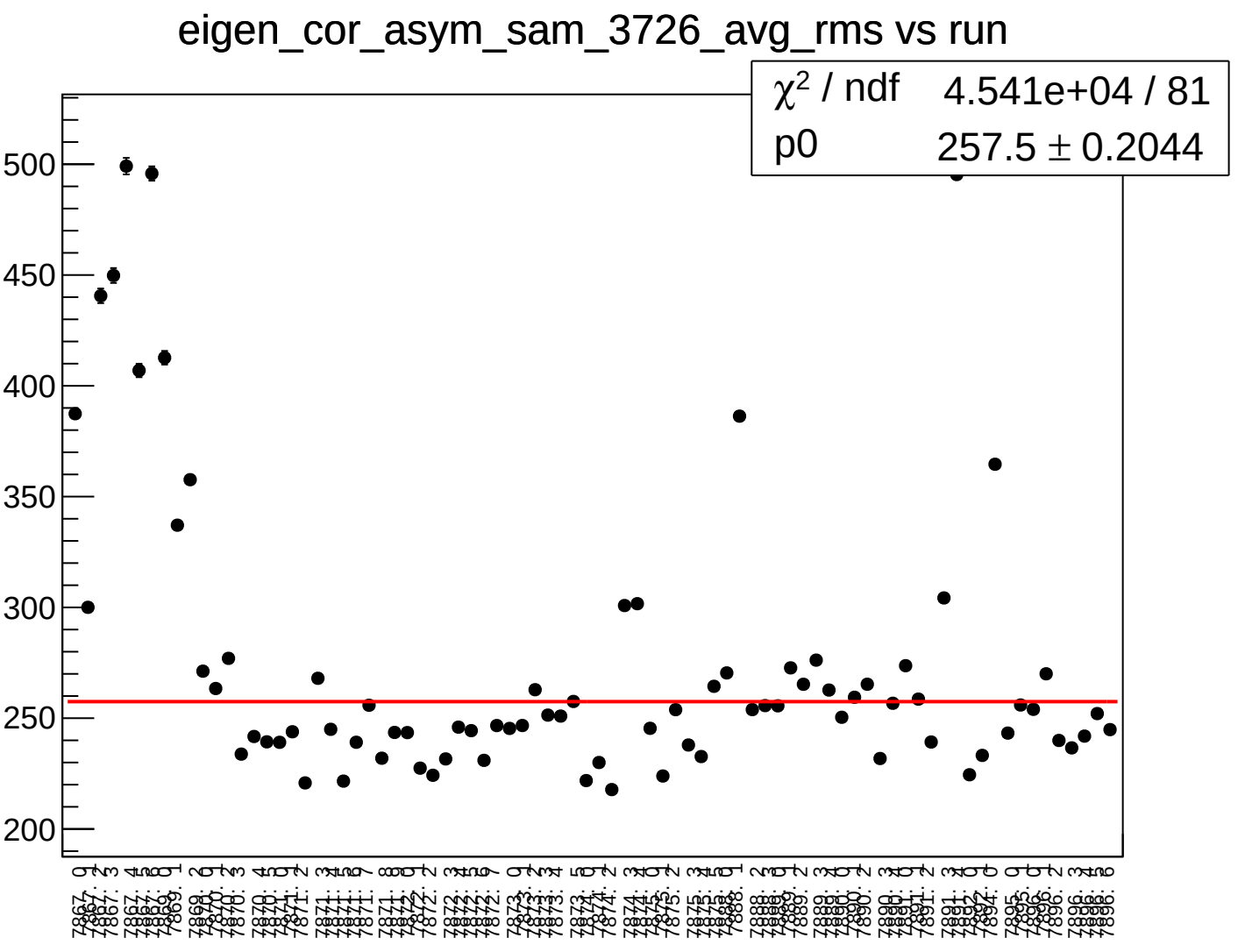

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 69.33 / 81
p0 −622.1± 2452
pull
Entries 82
Mean −168.1
Std Dev 0

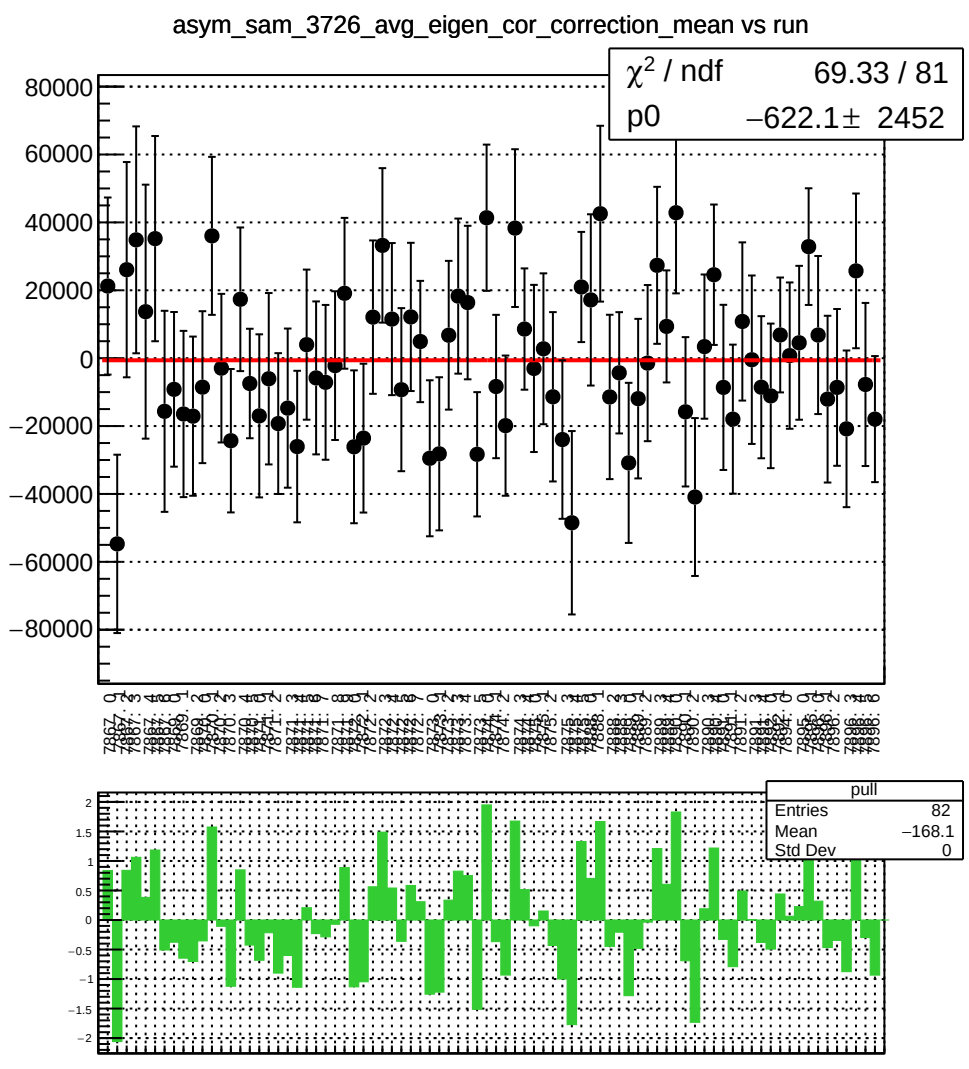

pull1D
Entries 82
Mean −0.004748
Std Dev 0.9195

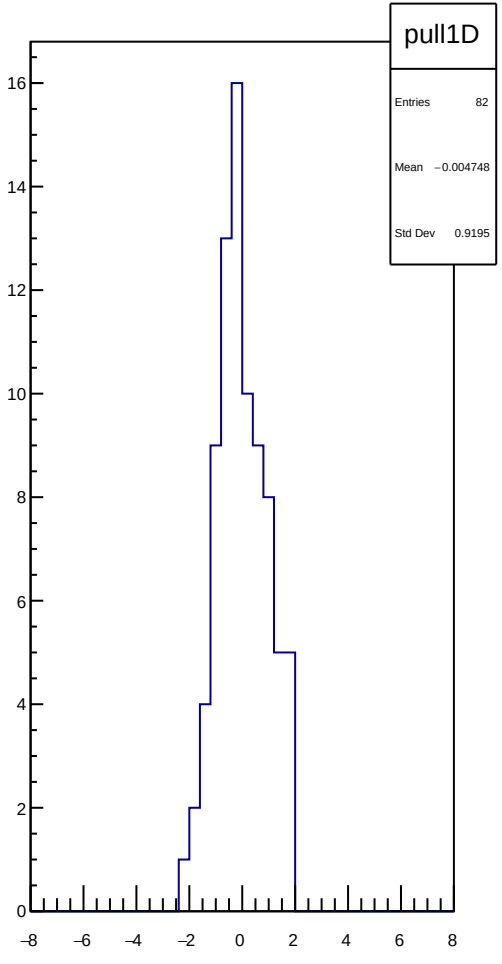

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.415e+04 / 81
p0 2206 ± 1.734
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

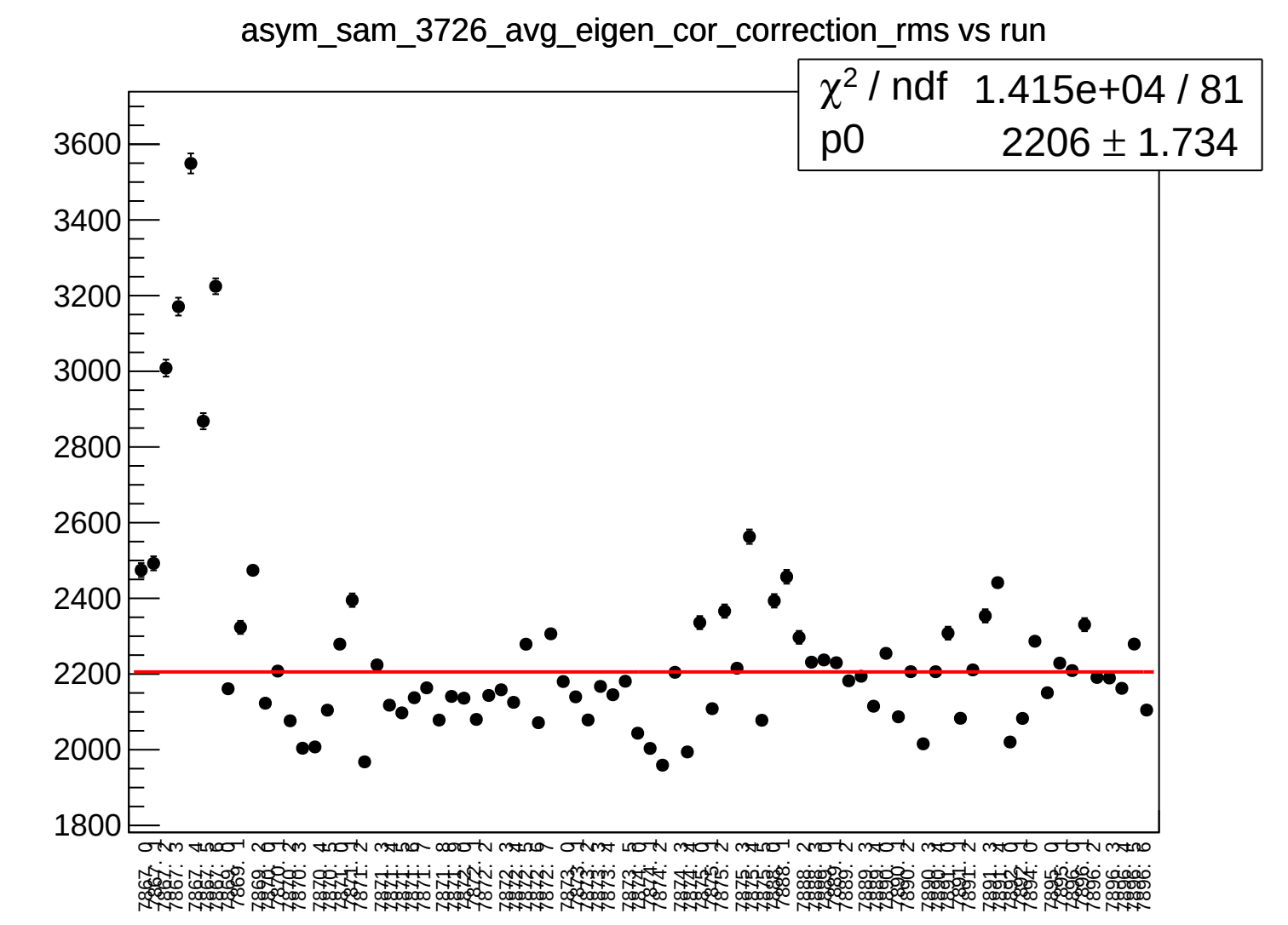

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 72.73 / 81
p0 586 ± 289.1
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −271.8
Std Dev 0
2
1
0
−1
−2

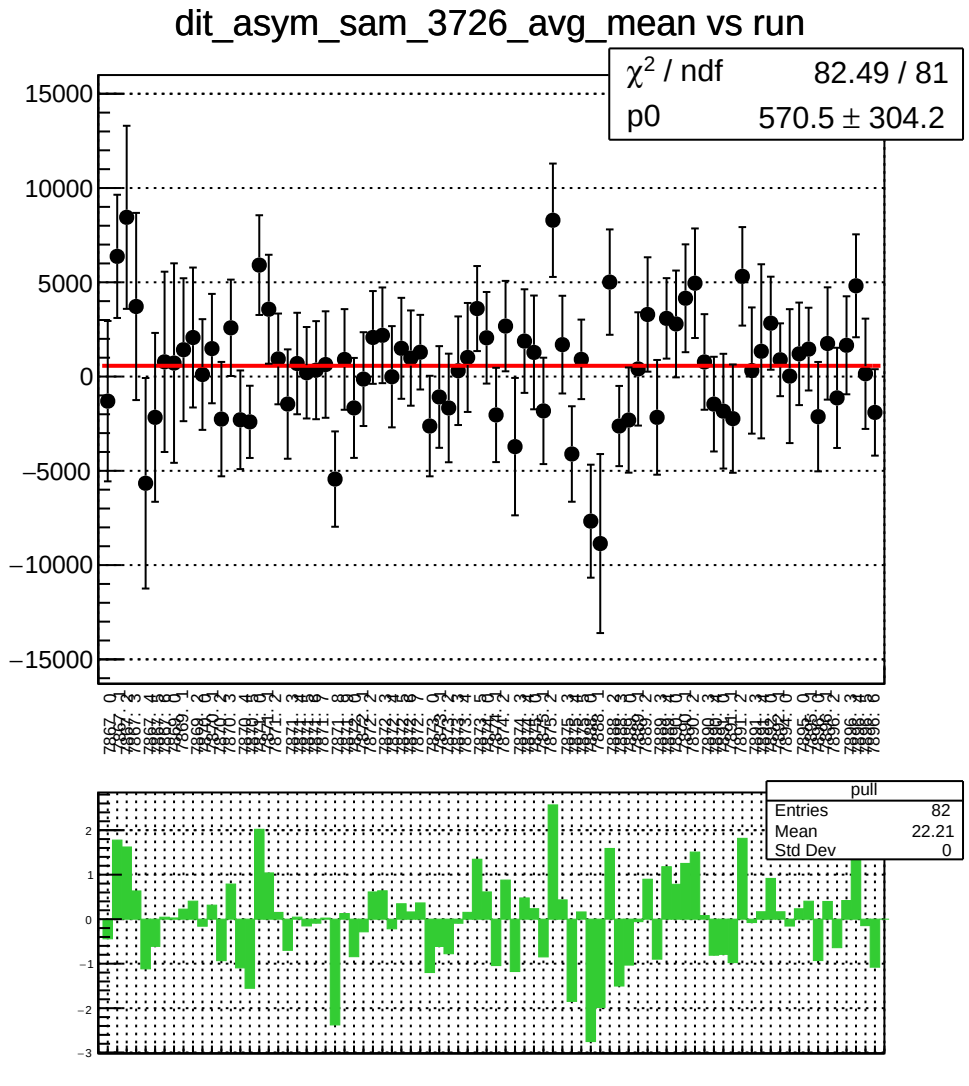

pull1D
Entries 82
Mean −0.004835
Std Dev 0.9417
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

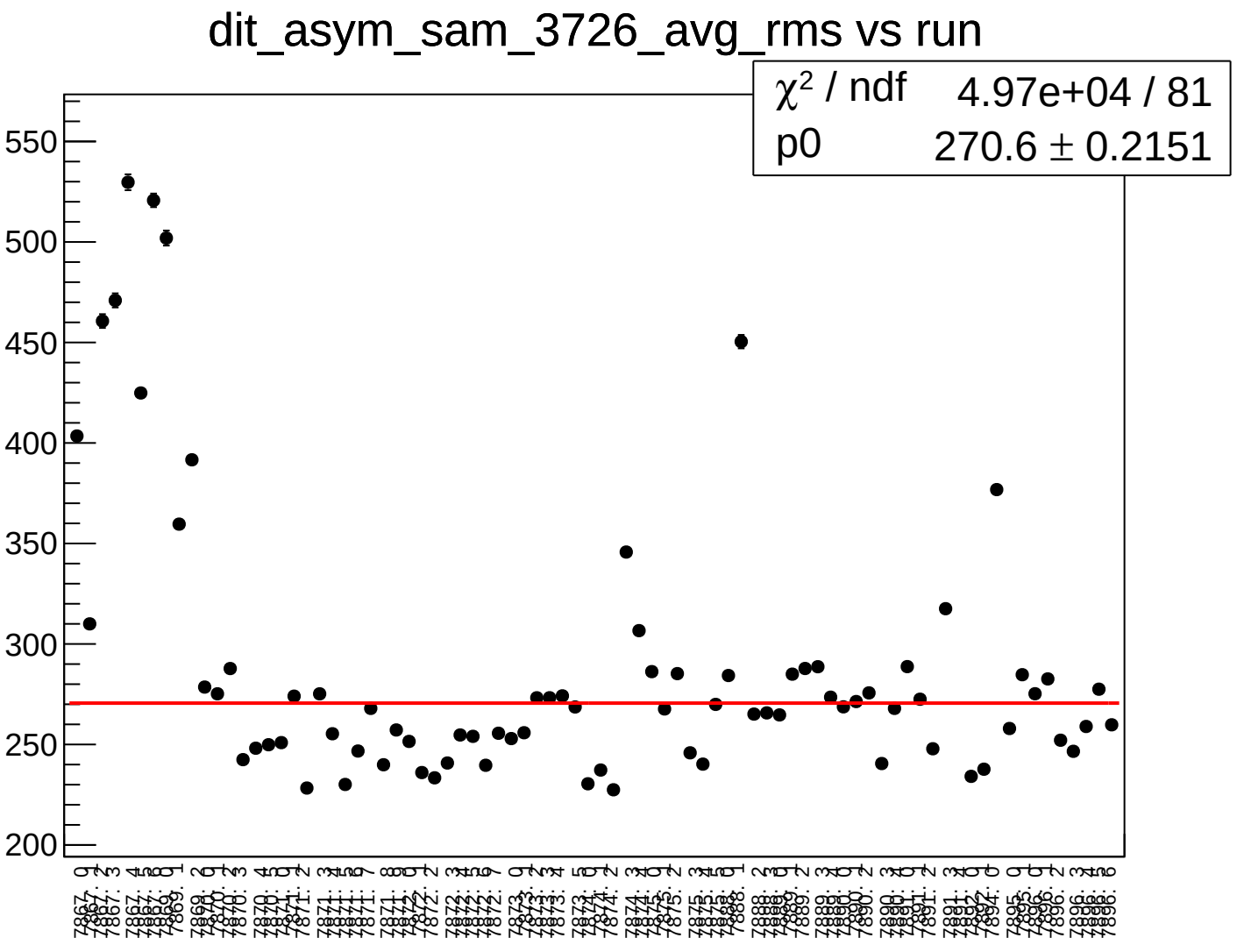

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.541e+04 / 81
p0 257.5 ± 0.2044
500
450
400
350
300
250
200

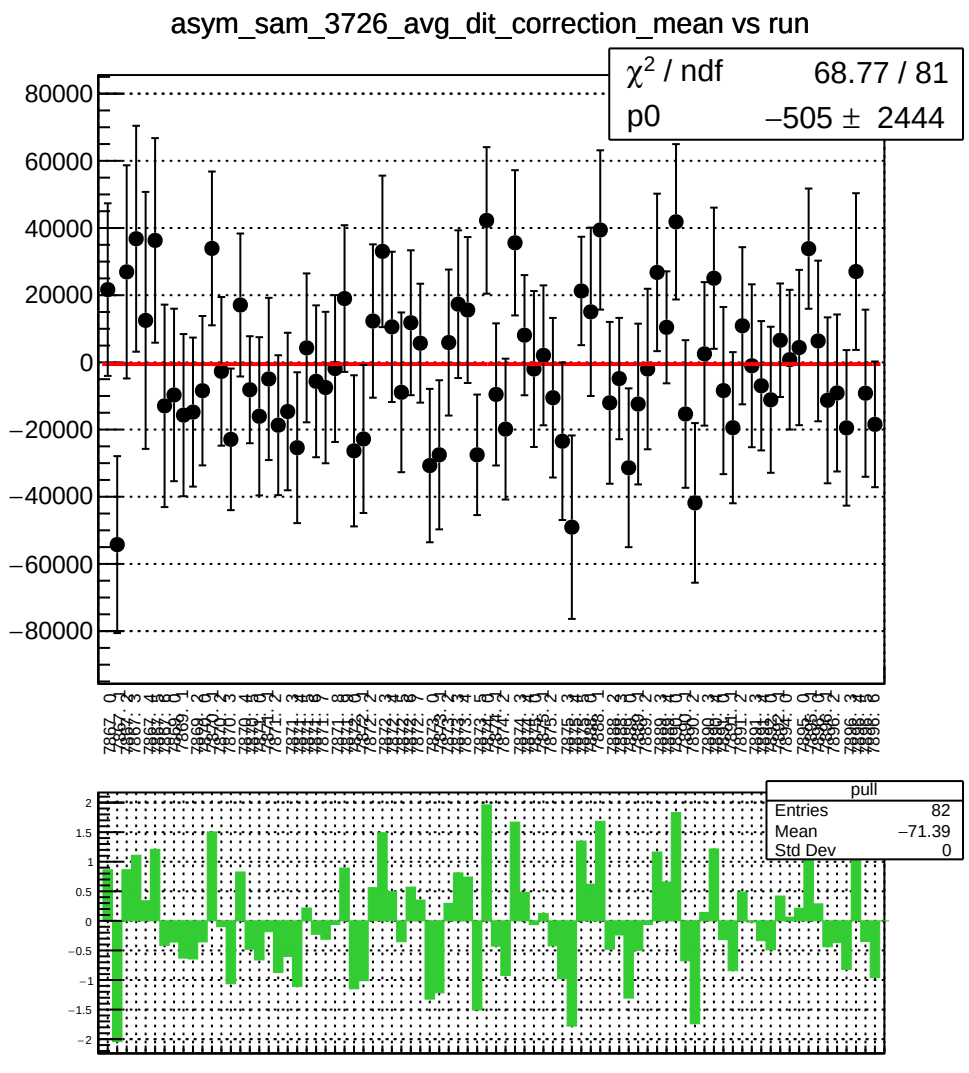

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.33 / 81
p0 −622.1± 2452
pull
Entries 82
Mean −168.1
Std Dev 0

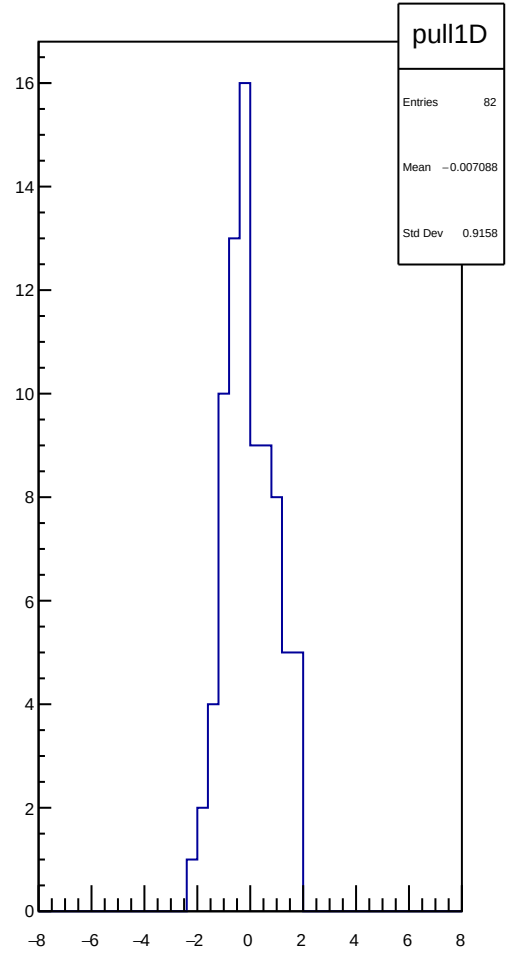

pull1D
Entries 82
Mean −0.004748
Std Dev 0.9195

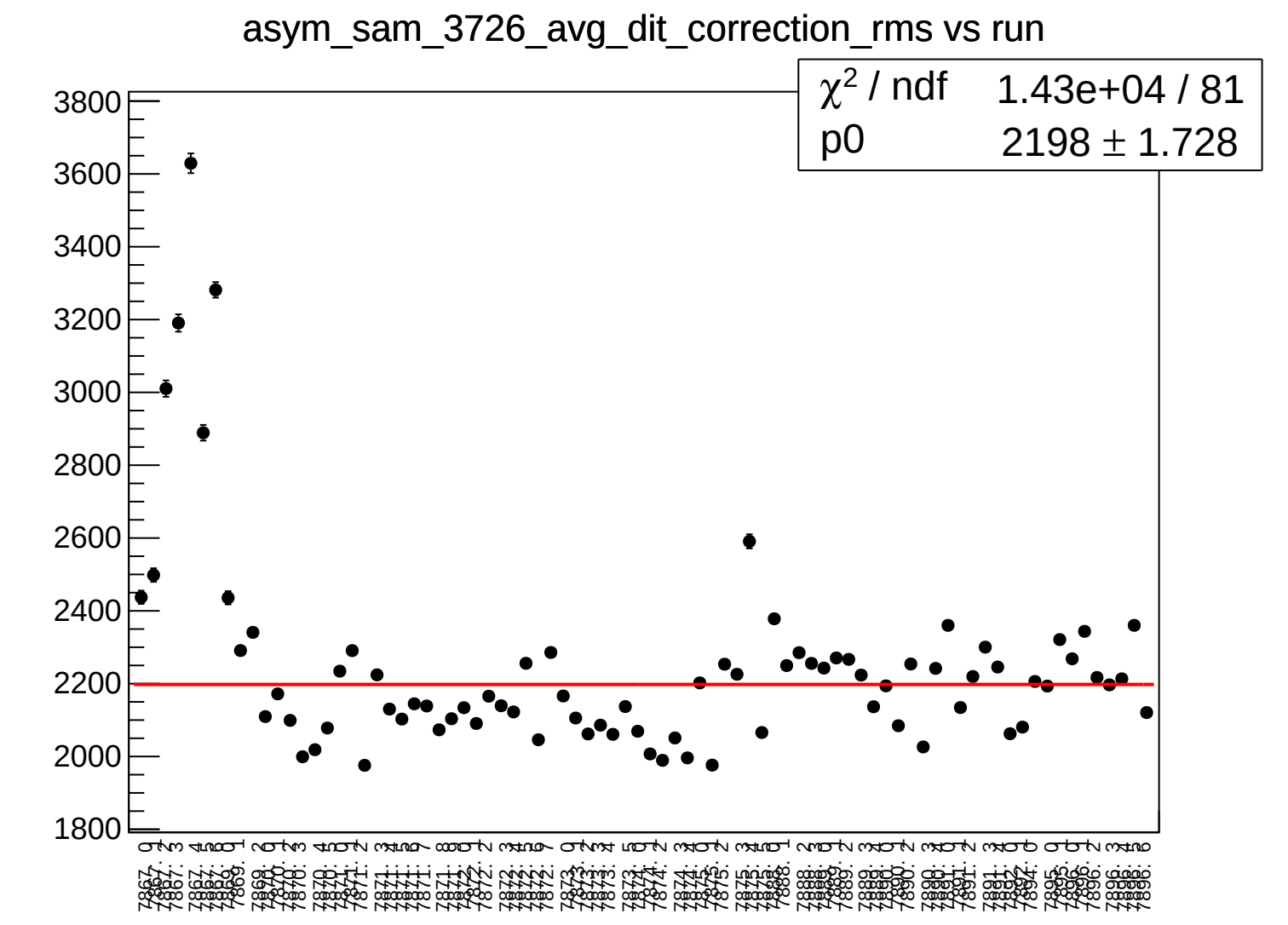

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.415e+04 / 81
p0 2206 ± 1.734
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

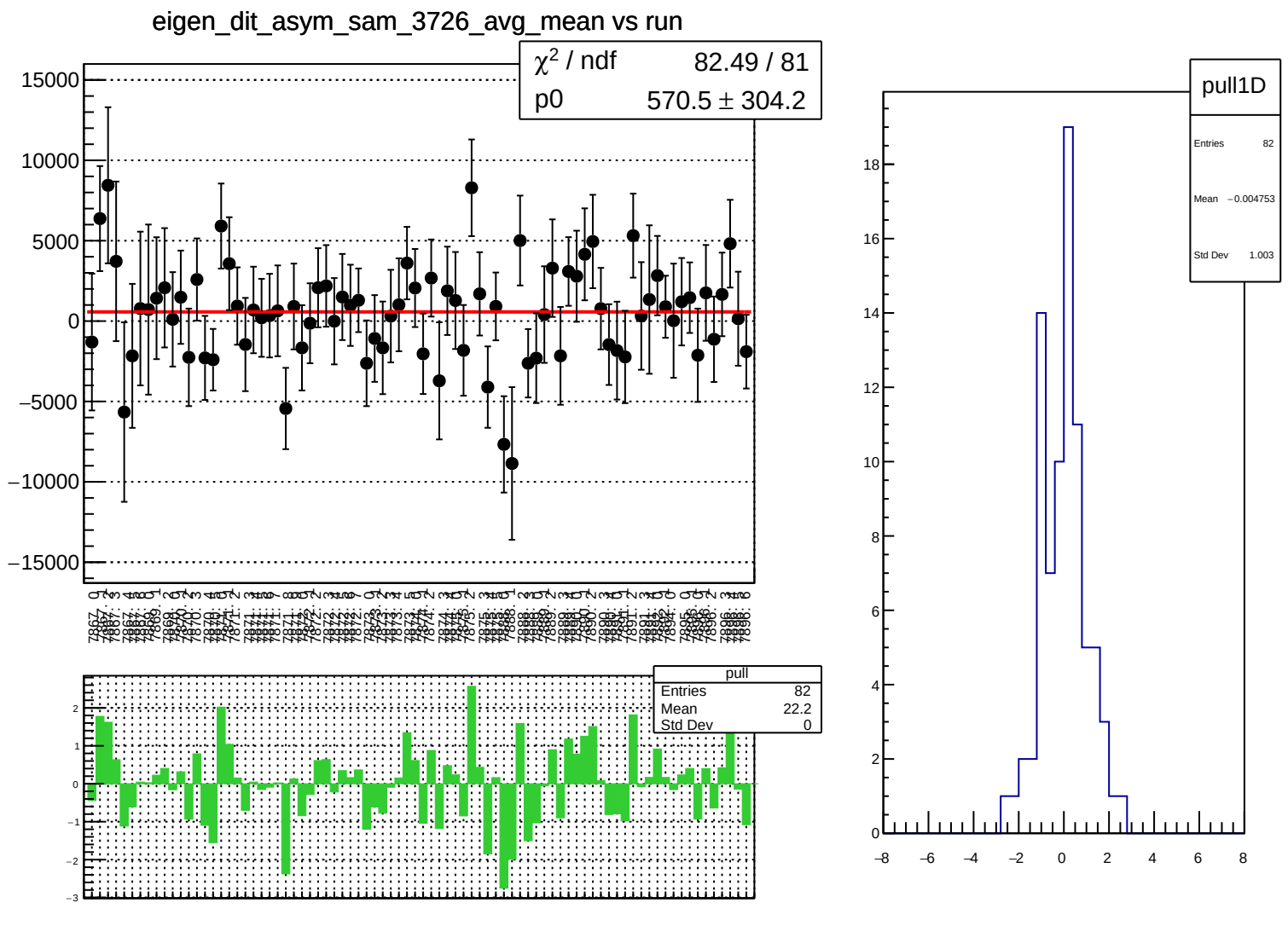

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 82.49 / 81
p0 570.5 ± 304.2
pull
Entries 82
Mean 22.21
Std Dev 0
pull1D
Entries 82
Mean −0.004753
Std Dev 1.003

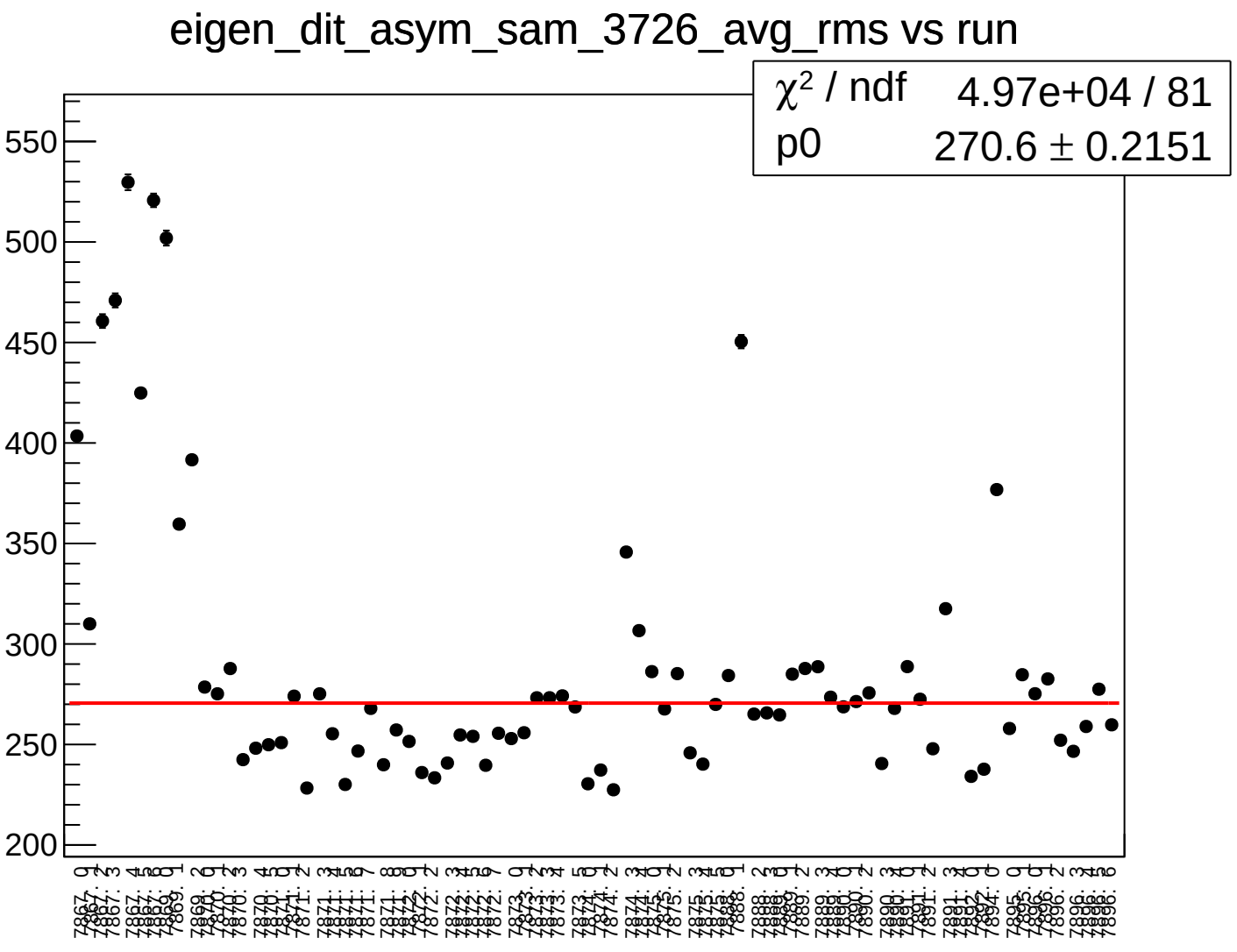

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.97e+04 / 81
p0 270.6 ± 0.2151
550
500
450
400
350
300
250
200

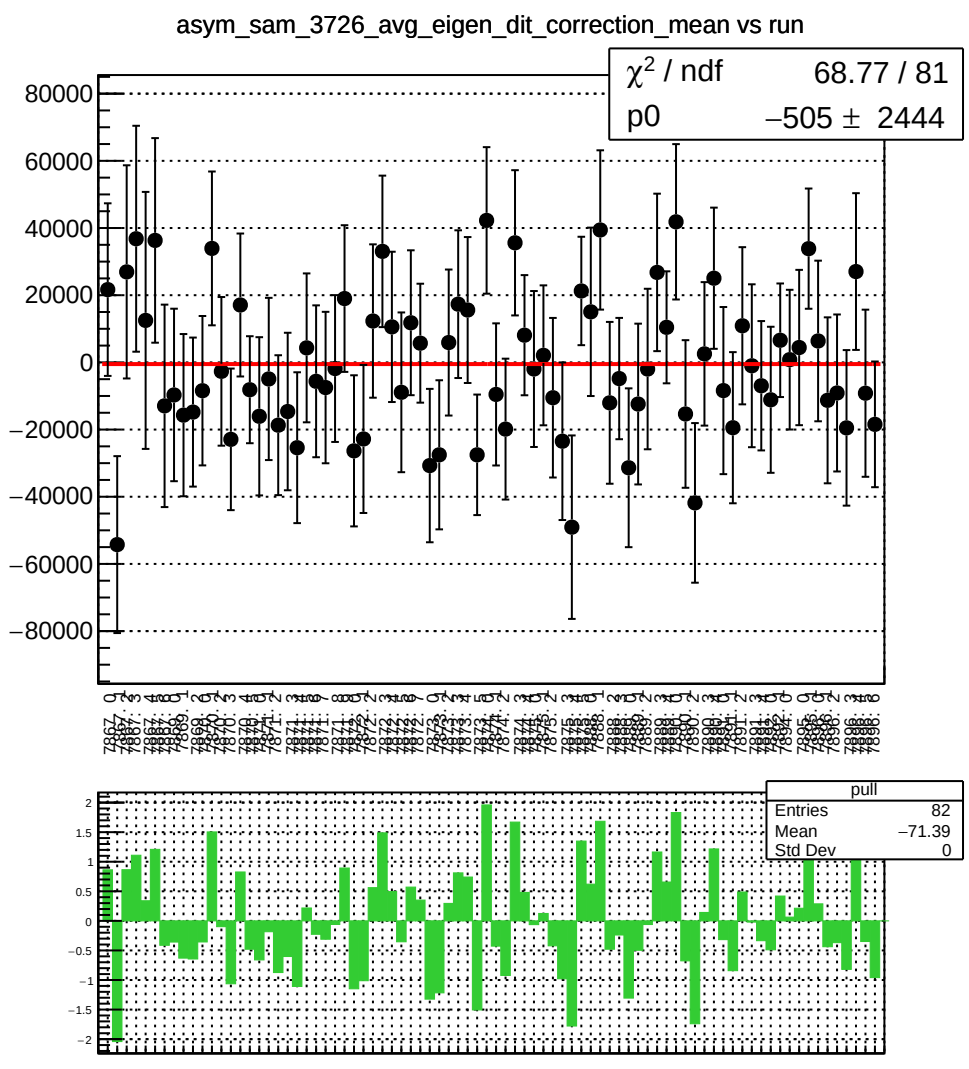

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 68.77 / 81
p0 −505 ± 2444
pull
Entries 82
Mean −71.39
Std Dev 0

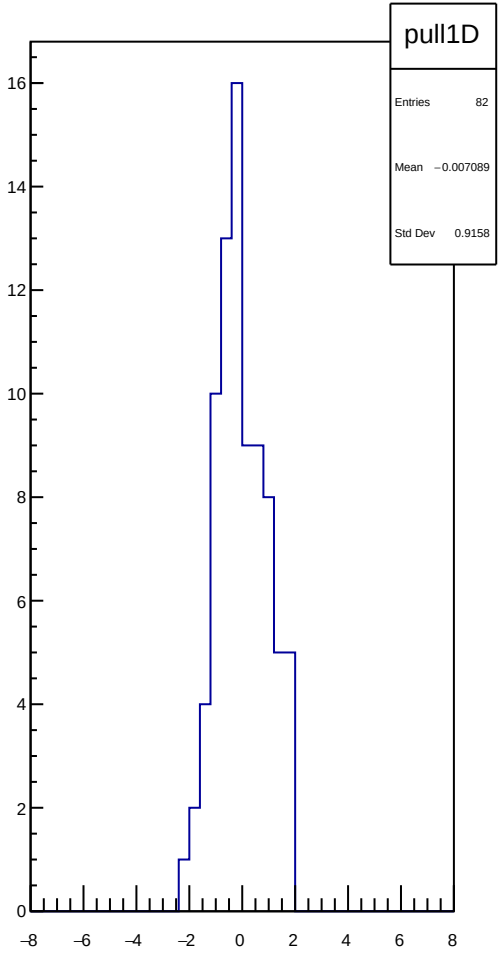

pull1D
Entries 82
Mean −0.007088
Std Dev 0.9158

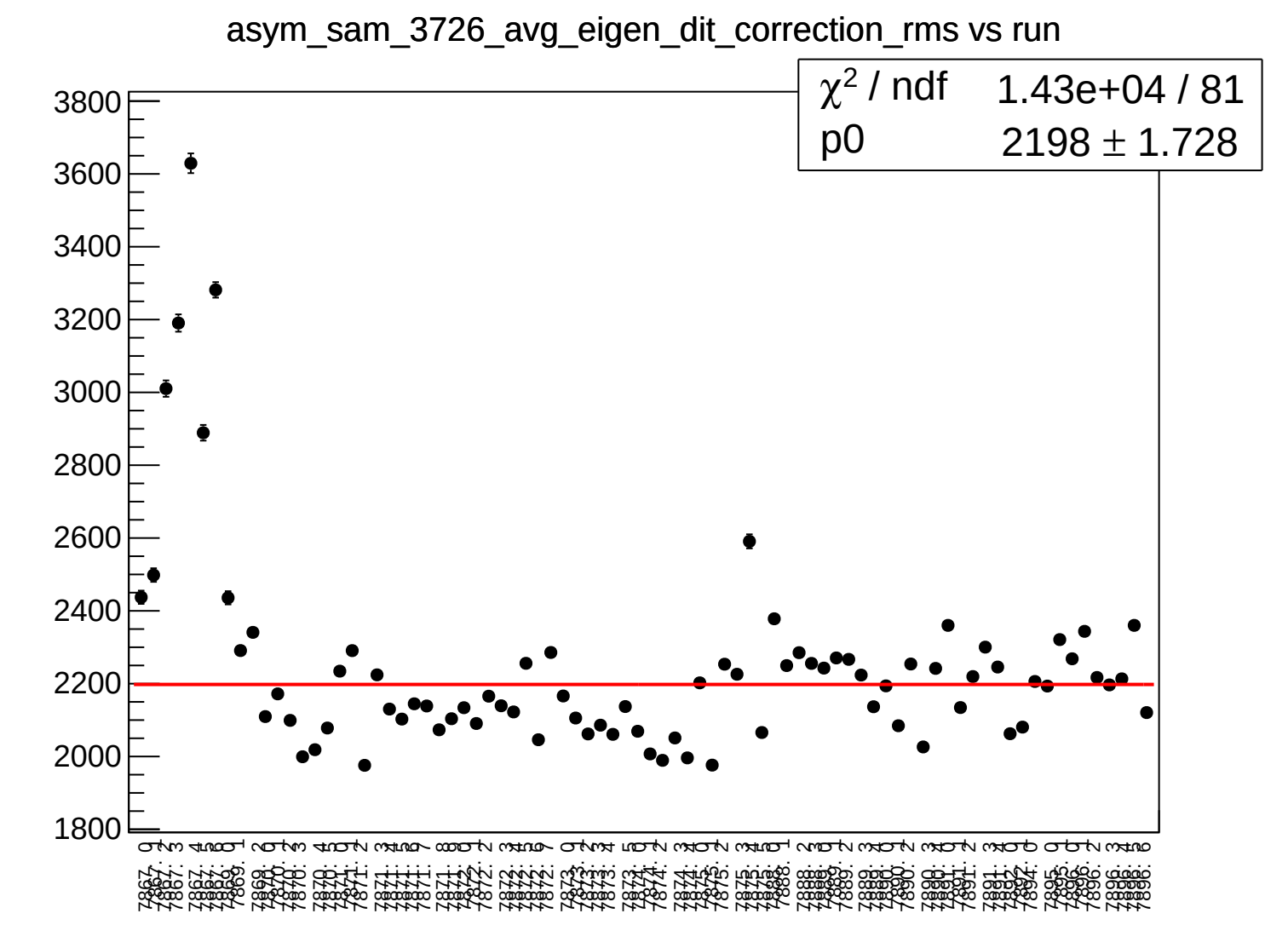

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 81
p0 2198 ± 1.728
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

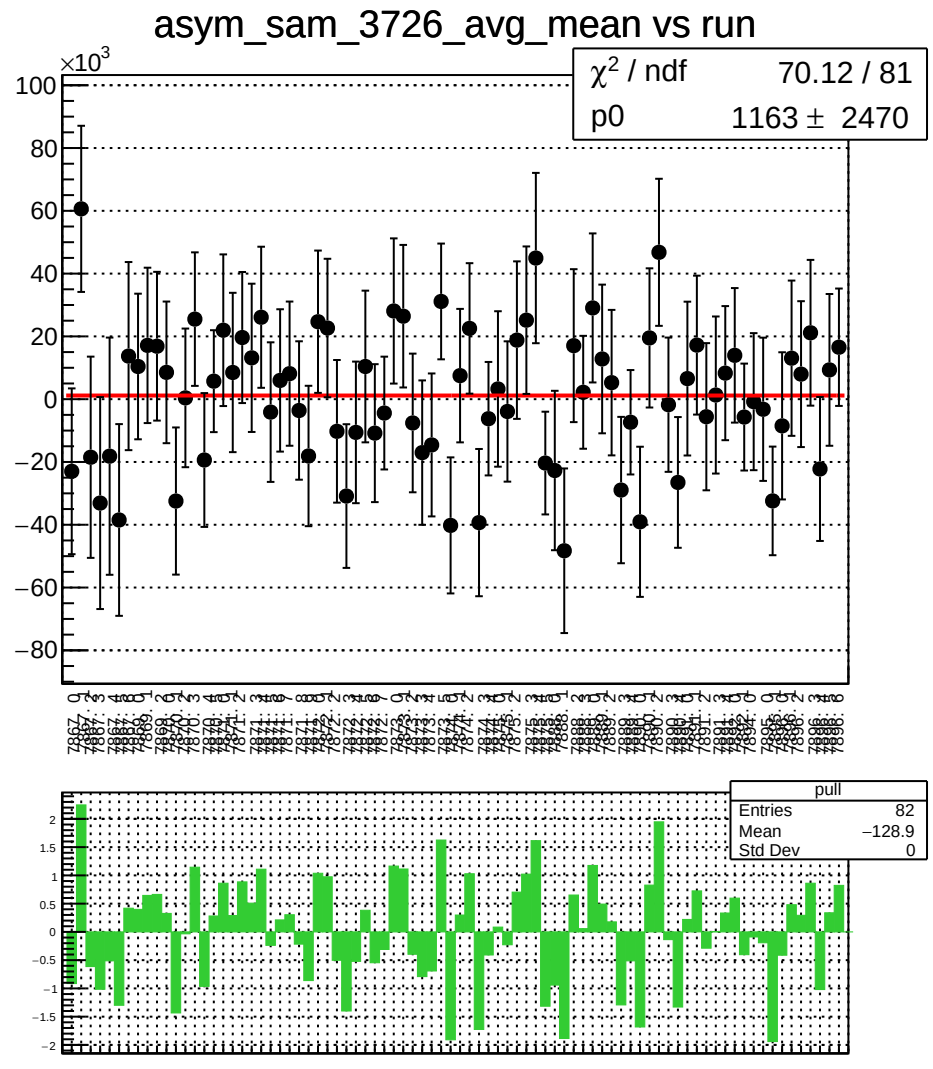

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 82.49 / 81
p0 570.5 ± 304.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 22.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.004753
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

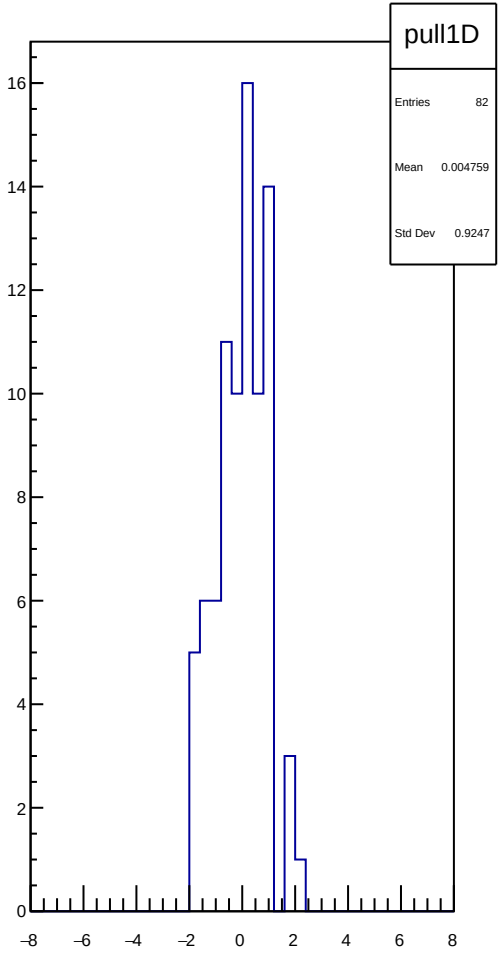

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.97e+04 / 81
p0 270.6 ± 0.2151
550
500
450
400
350
300
250
200

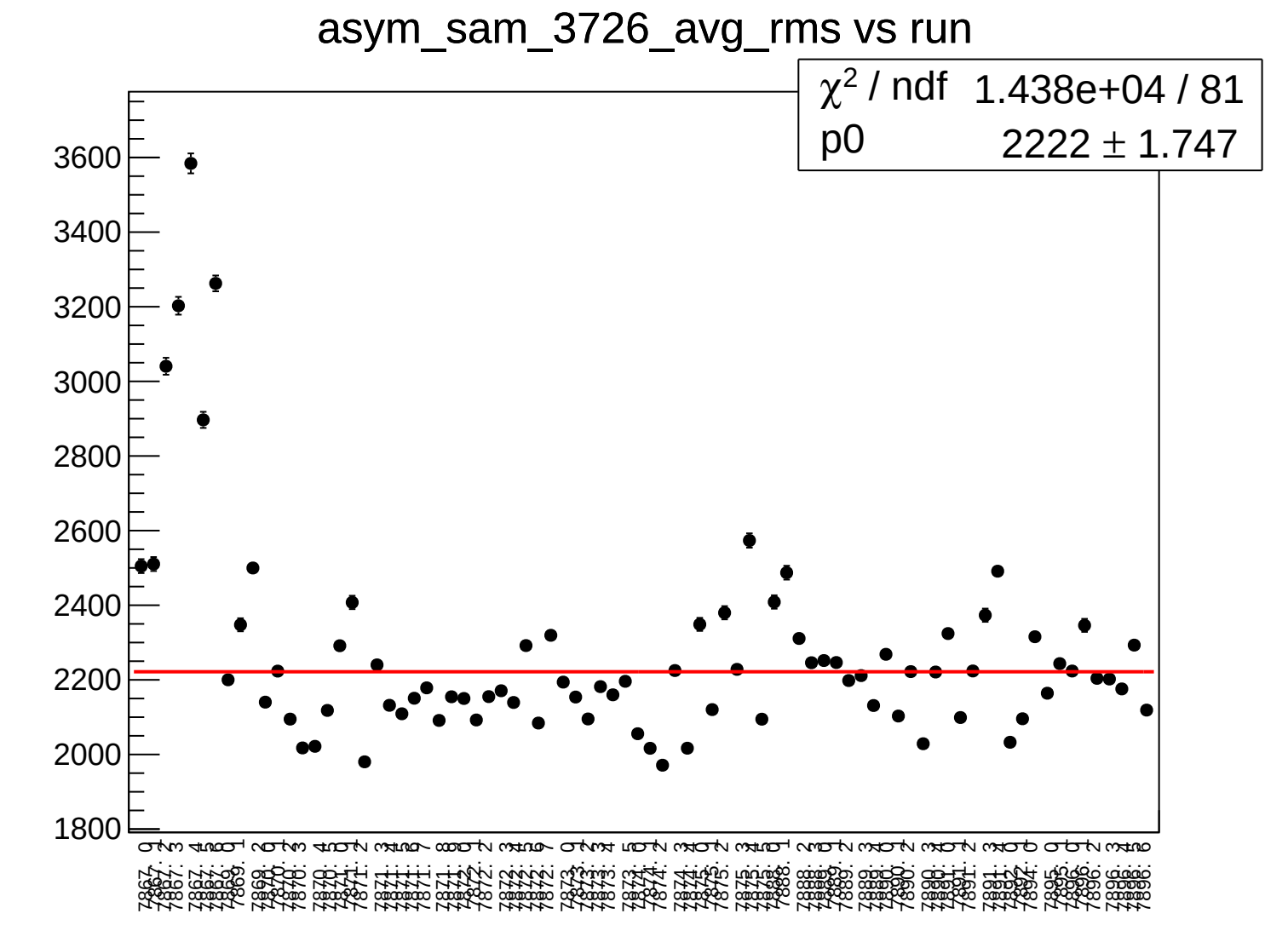

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.77 / 81
p0 −505 ± 2444
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −71.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

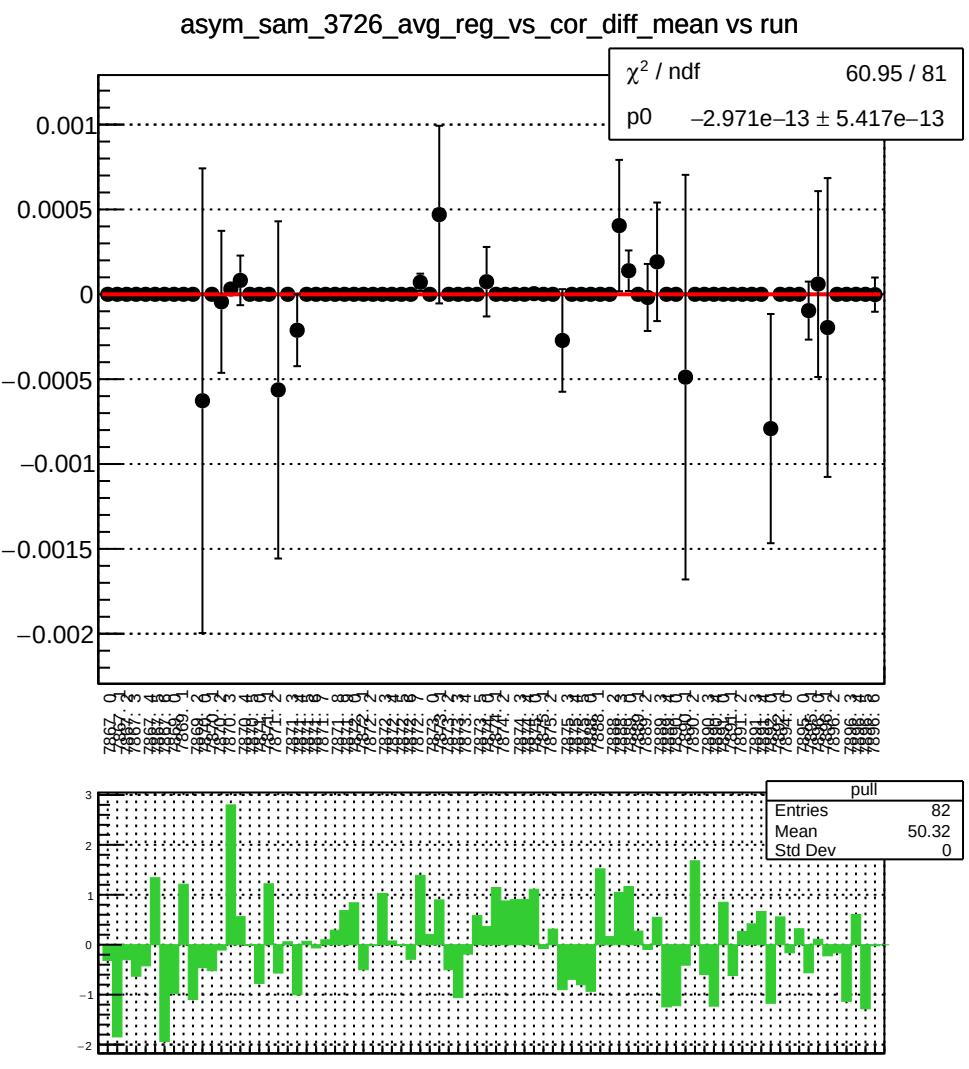

pull1D
Entries 82
Mean −0.007089
Std Dev 0.9158
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

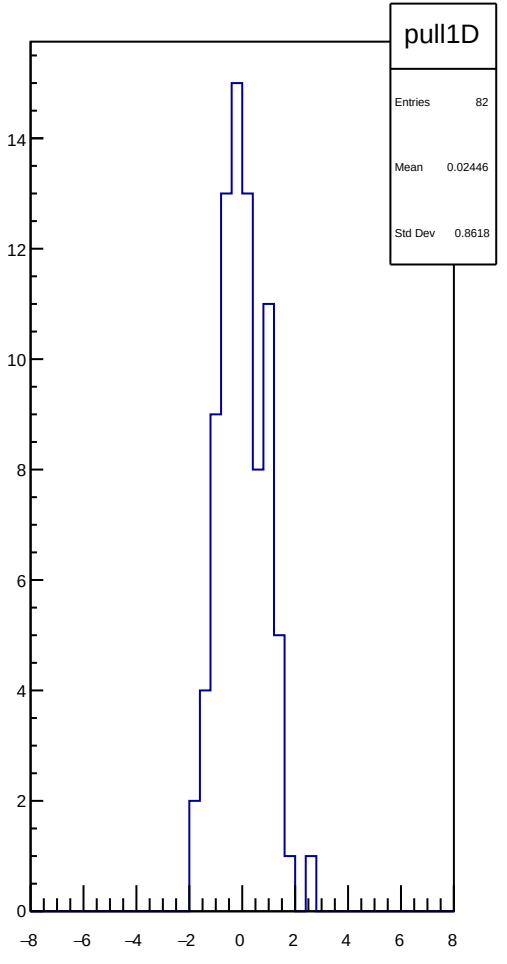

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 81
p0 2198 ± 1.728
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

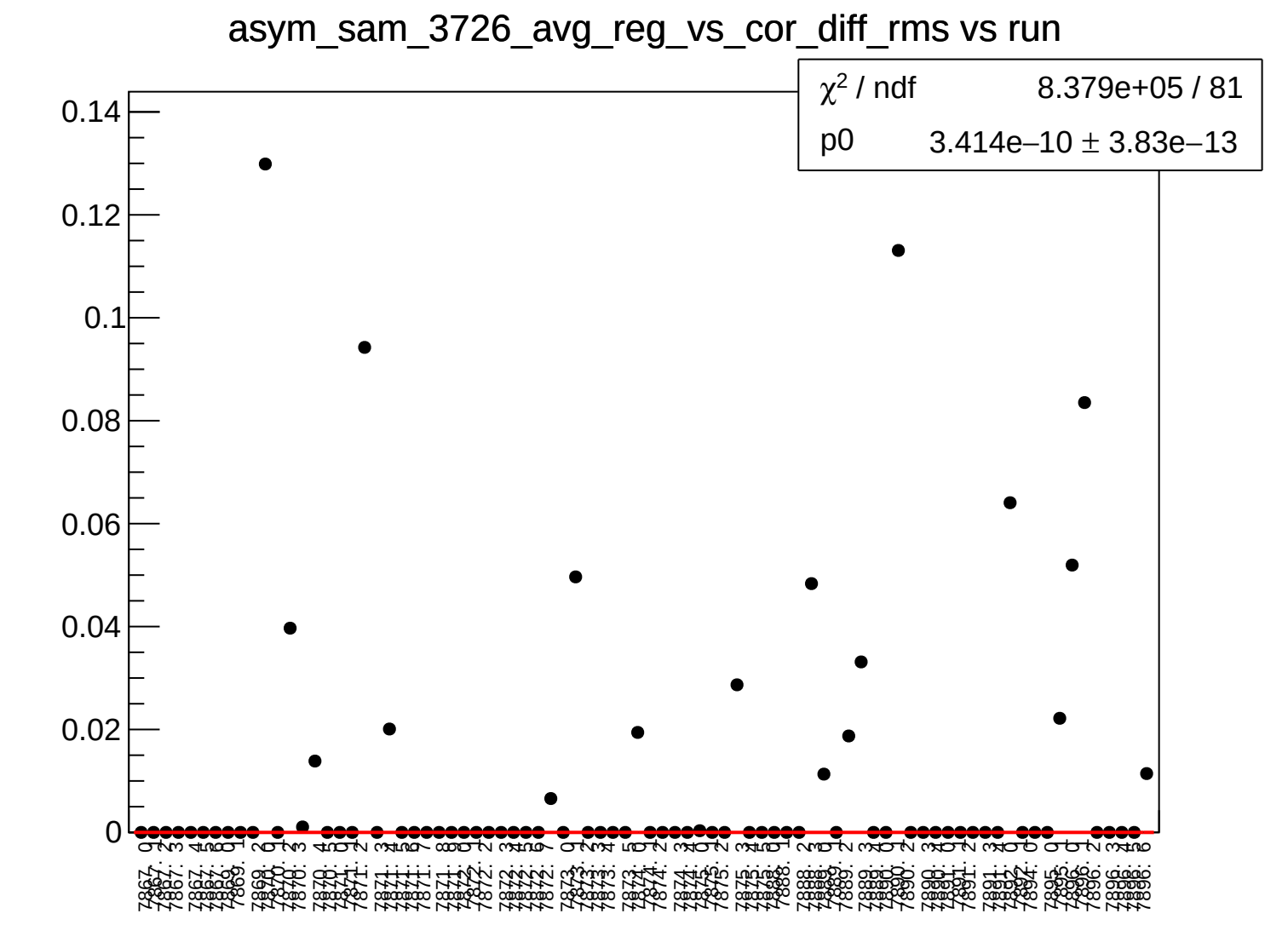

asym_sam_3726_avg_mean vs run
×10^3
χ^2 / ndf 70.12 / 81
p0 1163 ± 2470
pull
Entries 82
Mean −128.9
Std Dev 0

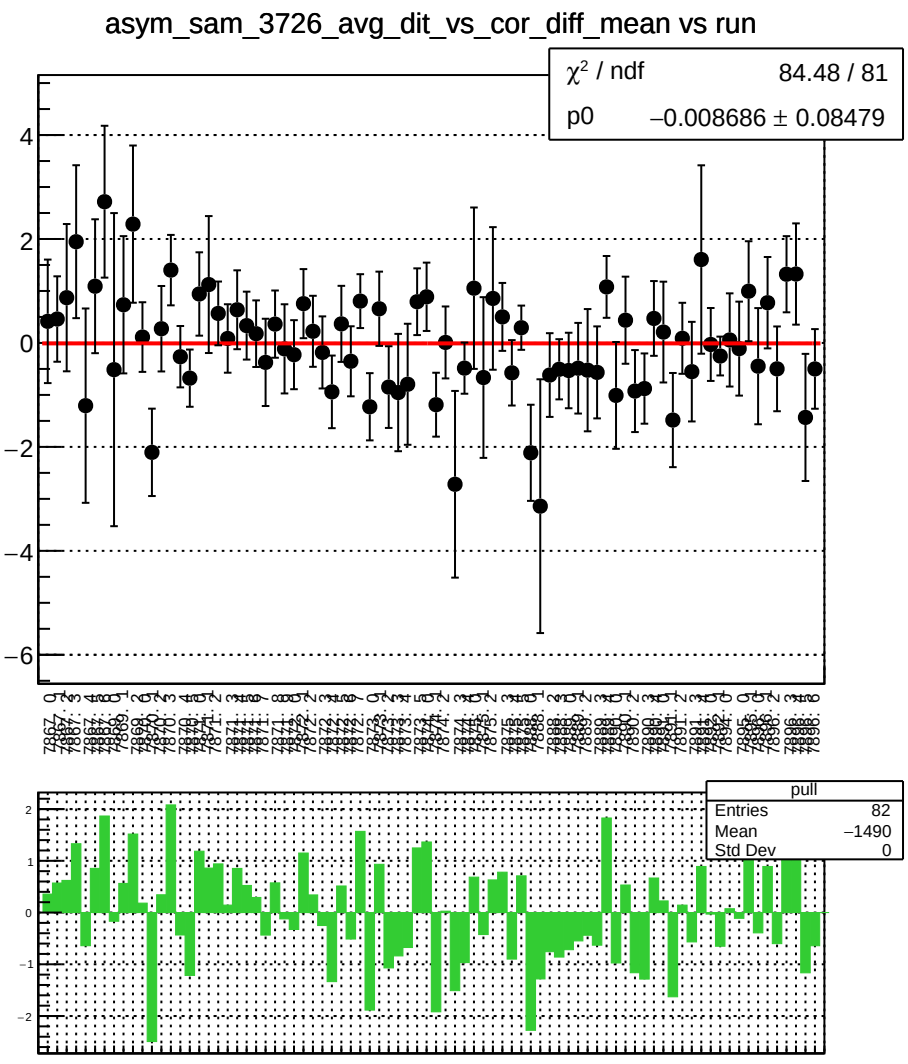

pull1D
Entries 82
Mean 0.004759
Std Dev 0.9247

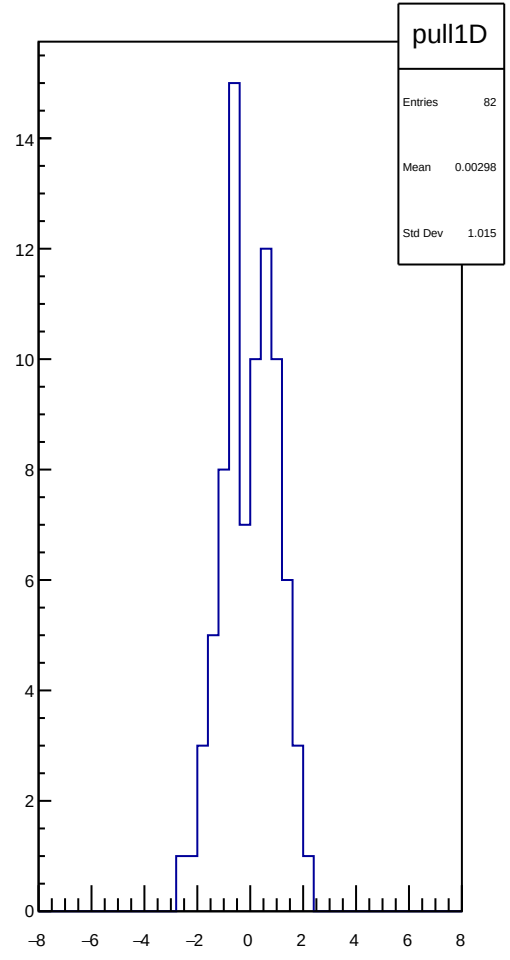

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.438e+04 / 81
p0 2222 ± 1.747
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

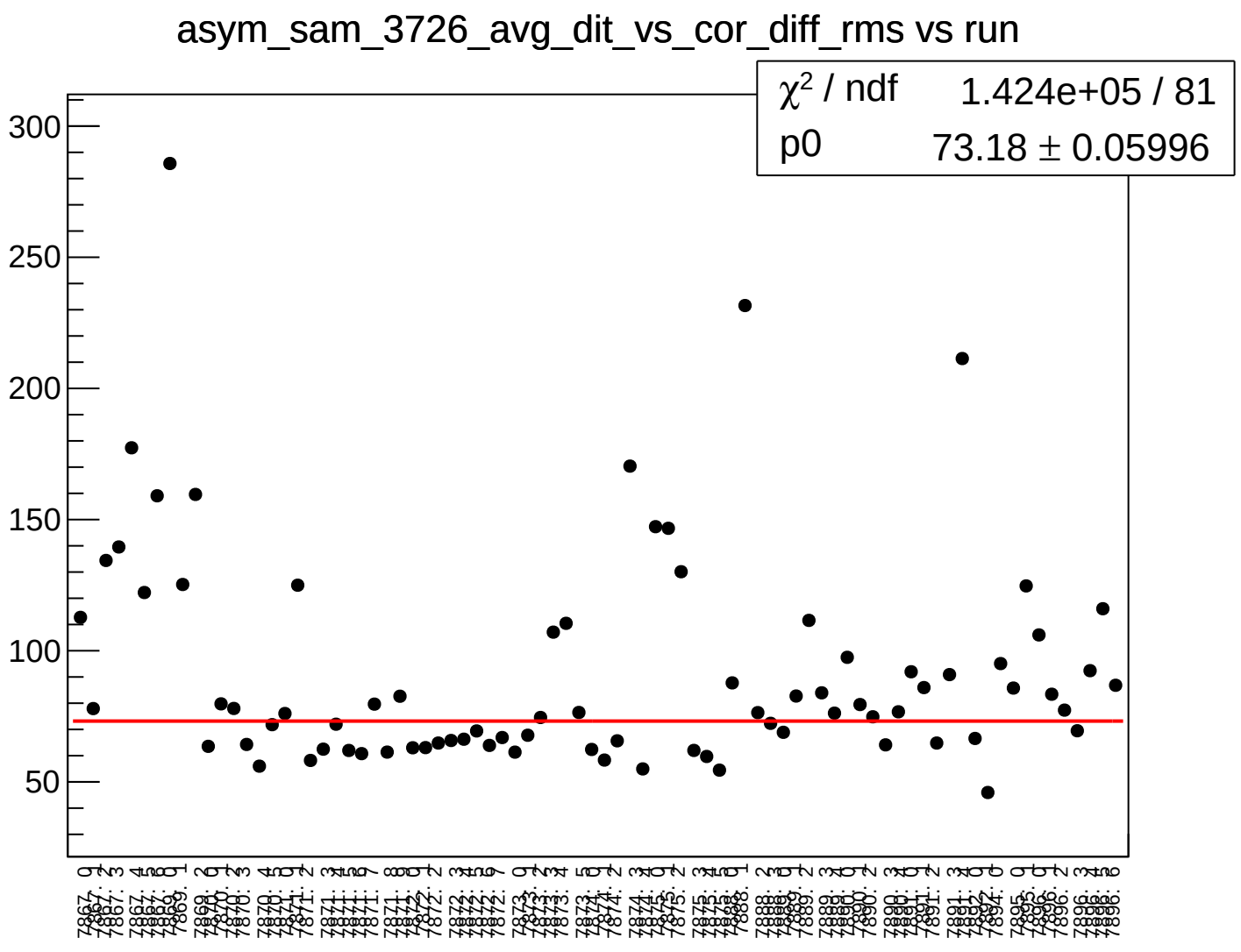

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 60.95 / 81
p0 −2.971e−13 ± 5.417e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 82
Mean 50.32
Std Dev 0
3
2
1
0
−1
−2

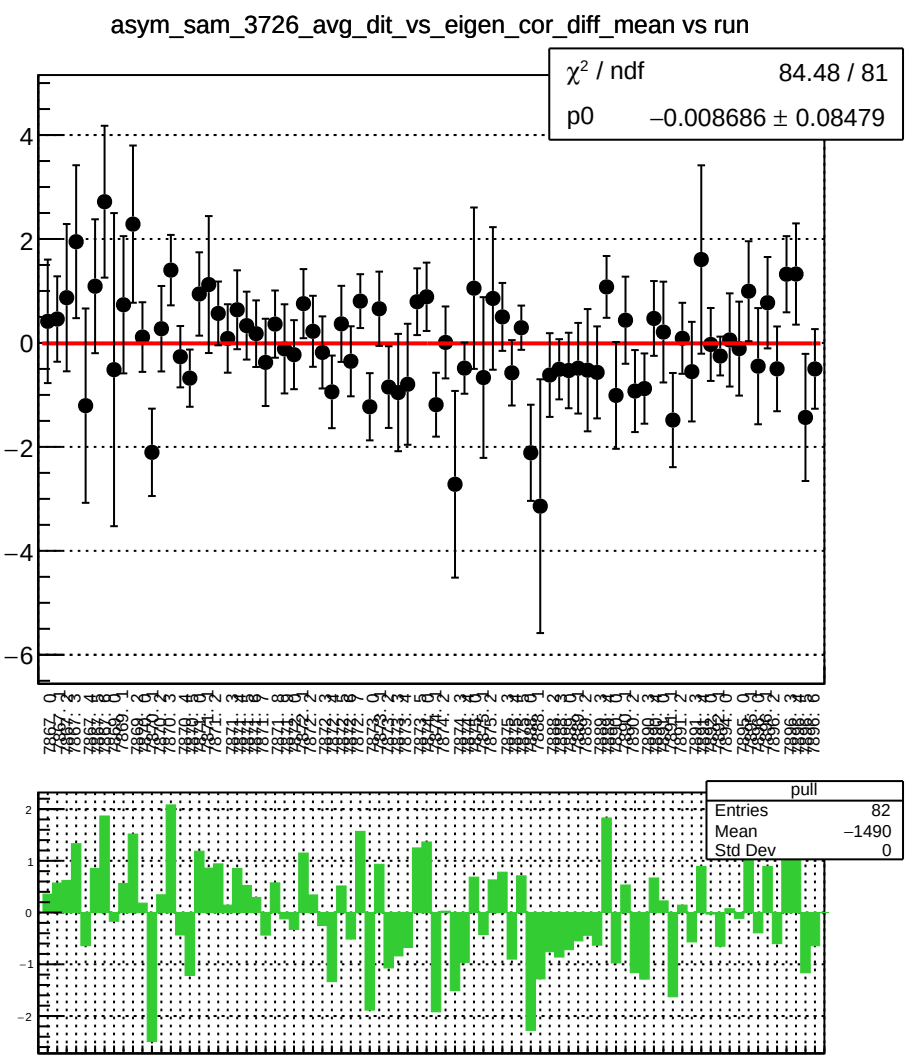

pull1D
Entries 82
Mean 0.02446
Std Dev 0.8618
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

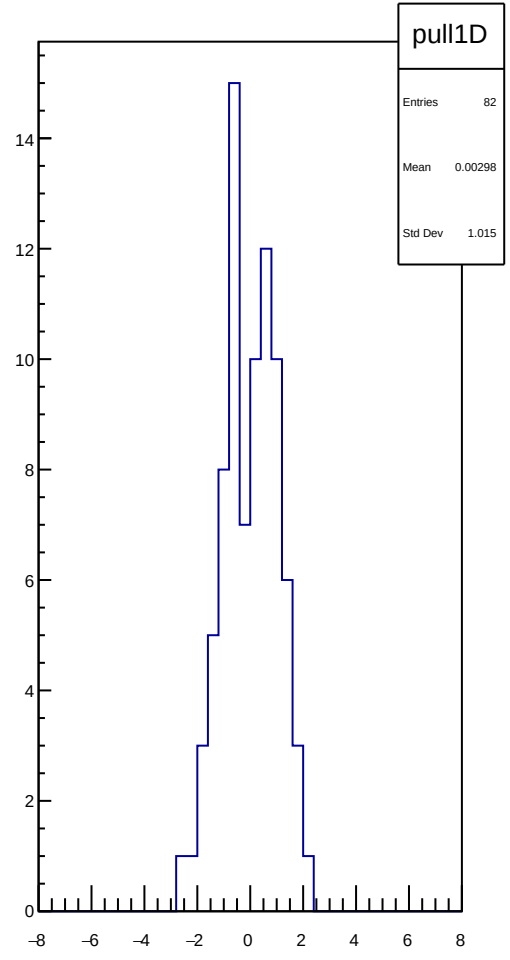

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.379e+05 / 81
p0 3.414e−10 ± 3.83e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

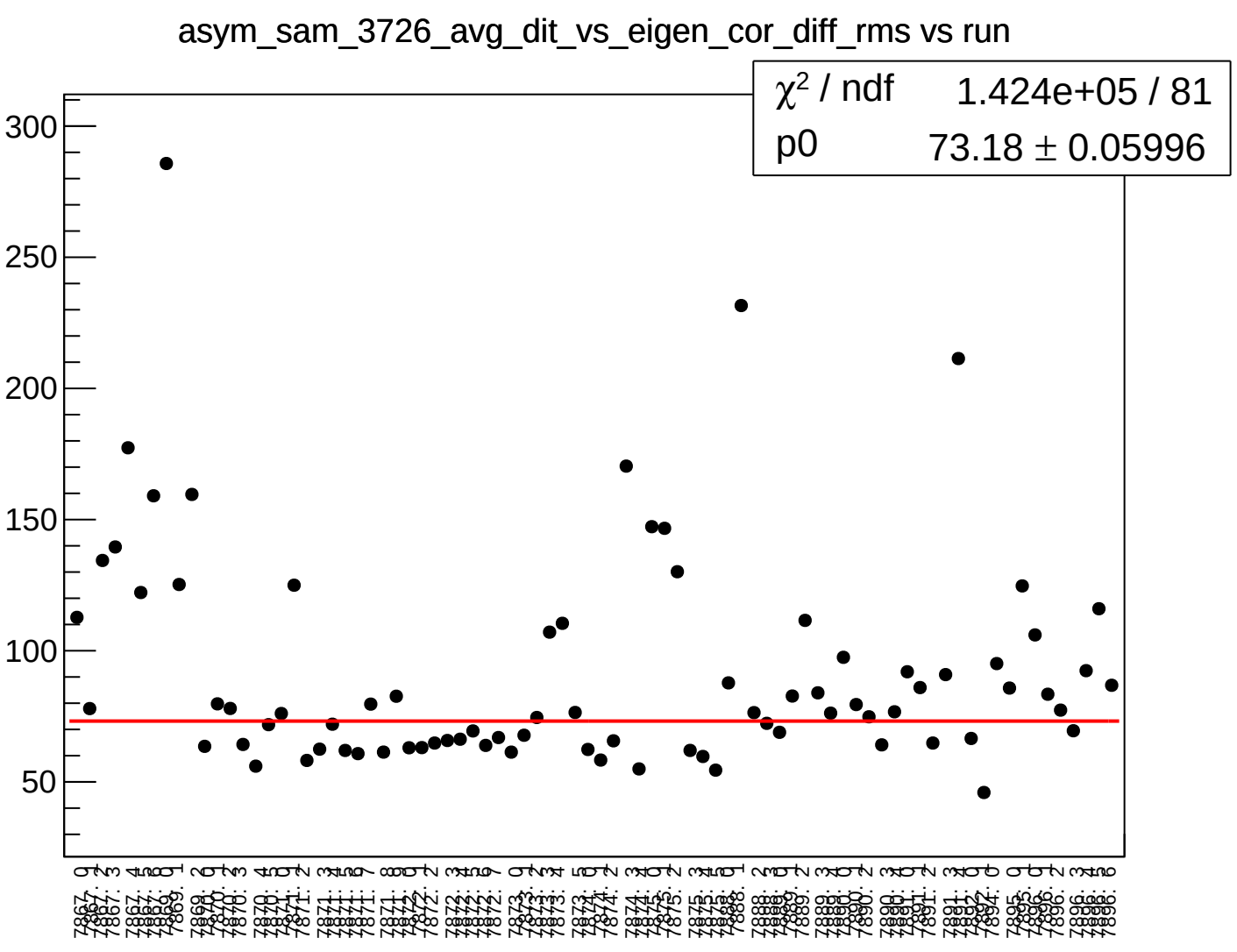

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.48 / 81
p0 −0.008686 ± 0.08479
pull
Entries 82
Mean −1490
Std Dev 0

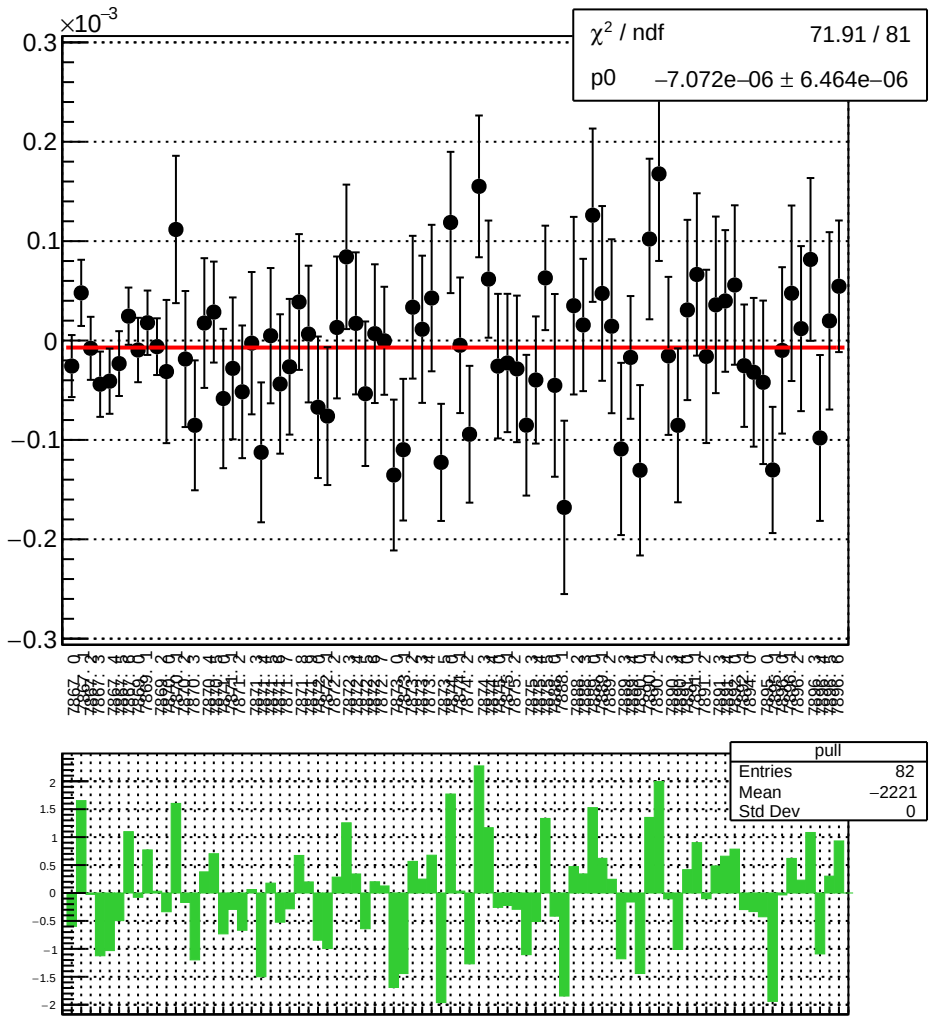

pull1D
Entries 82
Mean 0.00298
Std Dev 1.015

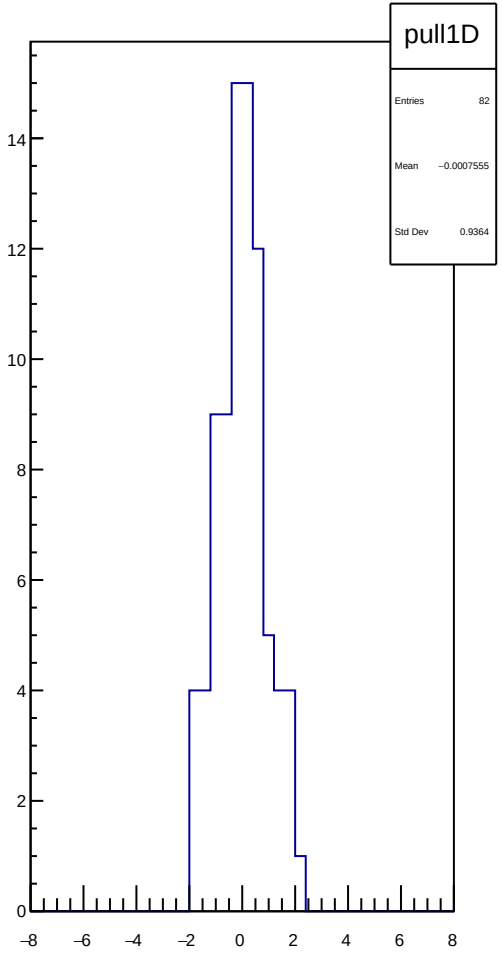

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 81
p0 73.18 ± 0.05996
300
250
200
150
100
50

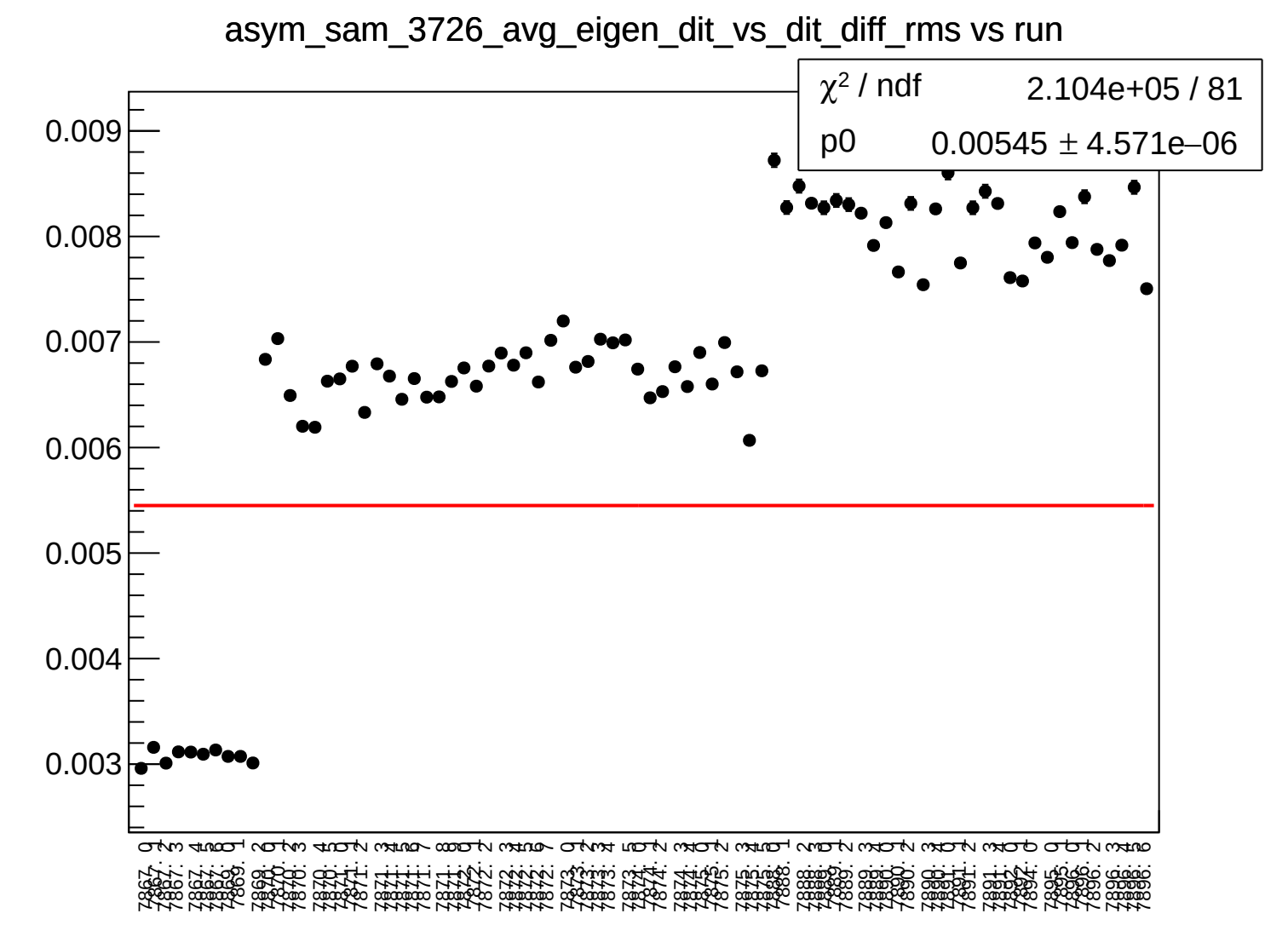

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.48 / 81
p0 −0.008686 ± 0.08479
pull
Entries 82
Mean −1490
Std Dev 0

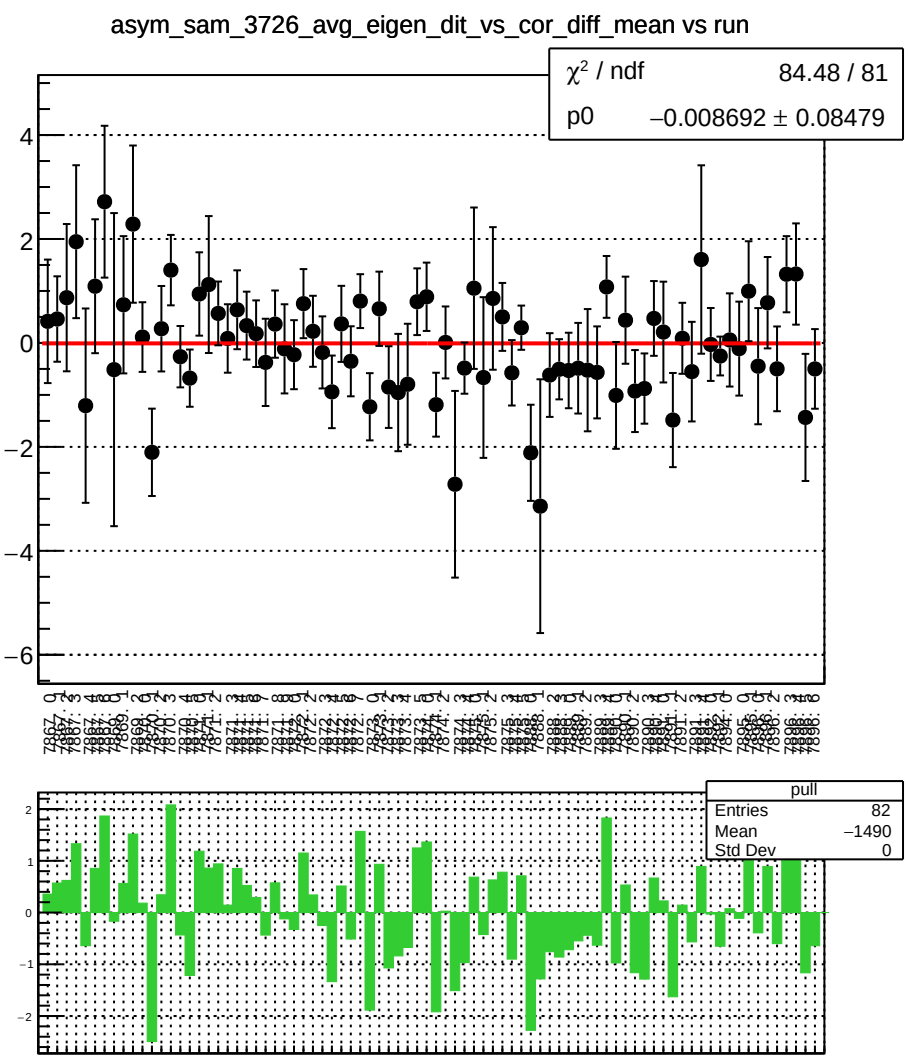

pull1D
Entries 82
Mean 0.00298
Std Dev 1.015

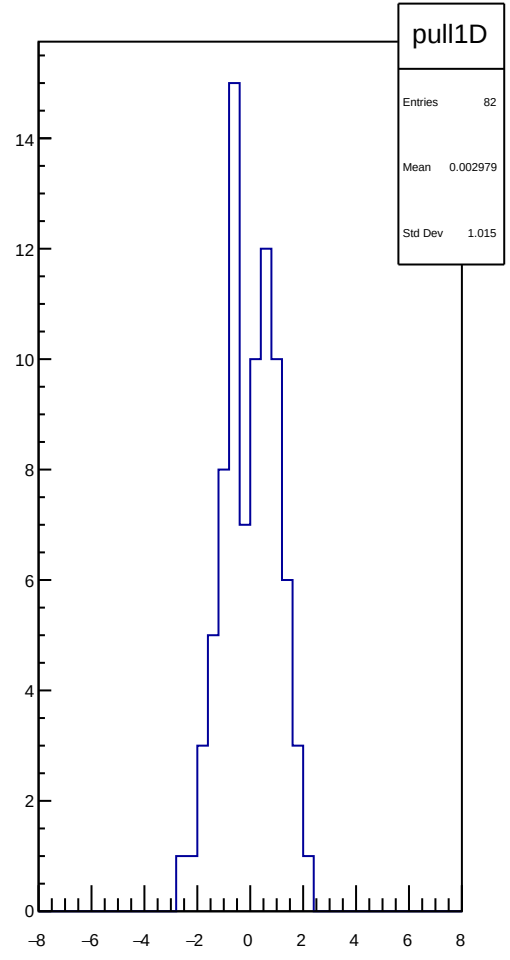

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 81
p0 73.18 ± 0.05996
300
250
200
150
100
50

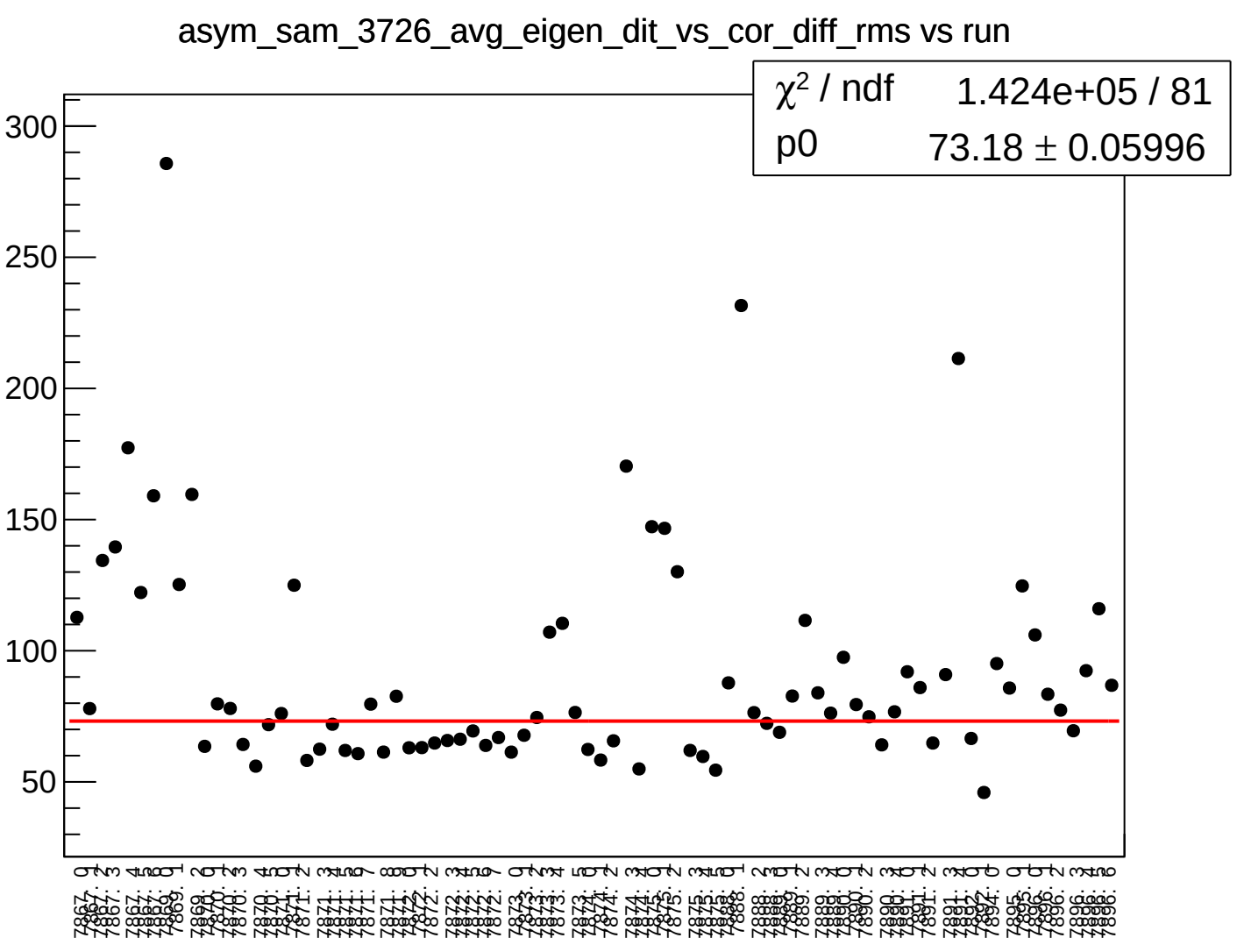

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.91 / 81
p0 −7.072e−06 ± 6.464e−06
pull
Entries 82
Mean −2221
Std Dev 0

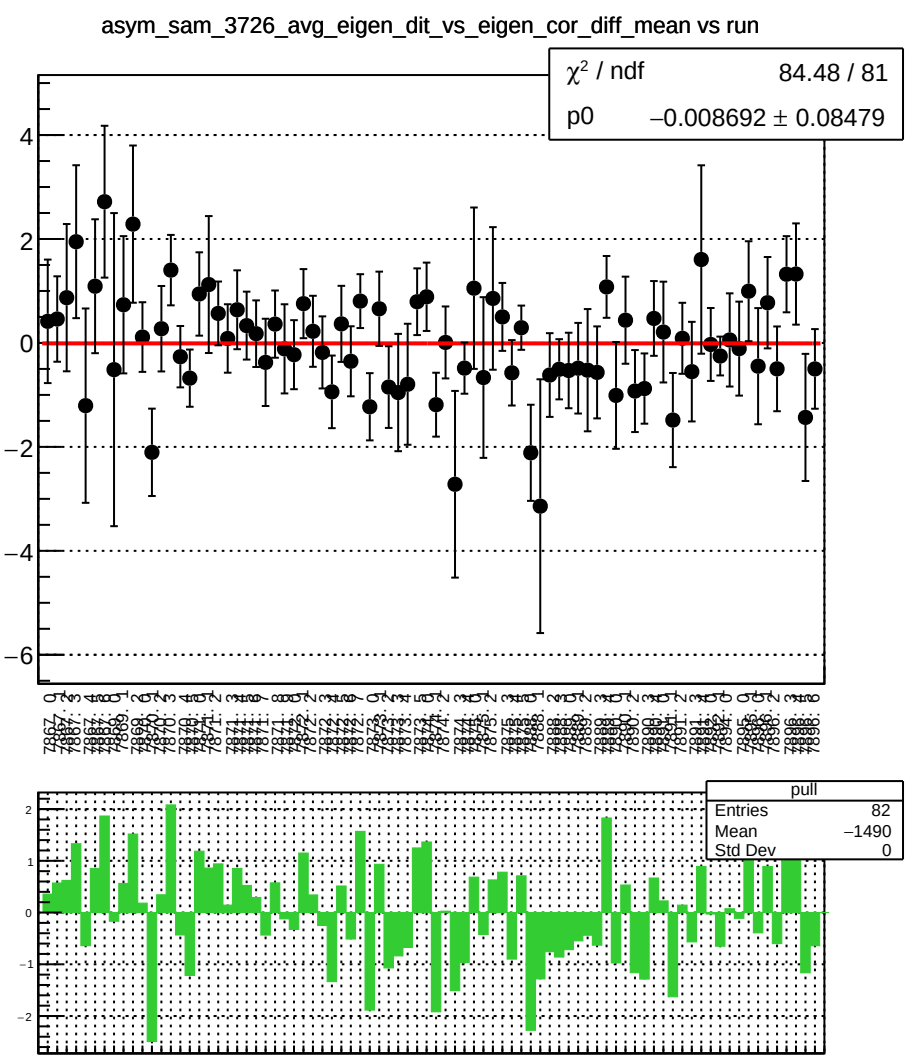

pull1D
Entries 82
Mean −0.0007555
Std Dev 0.9364

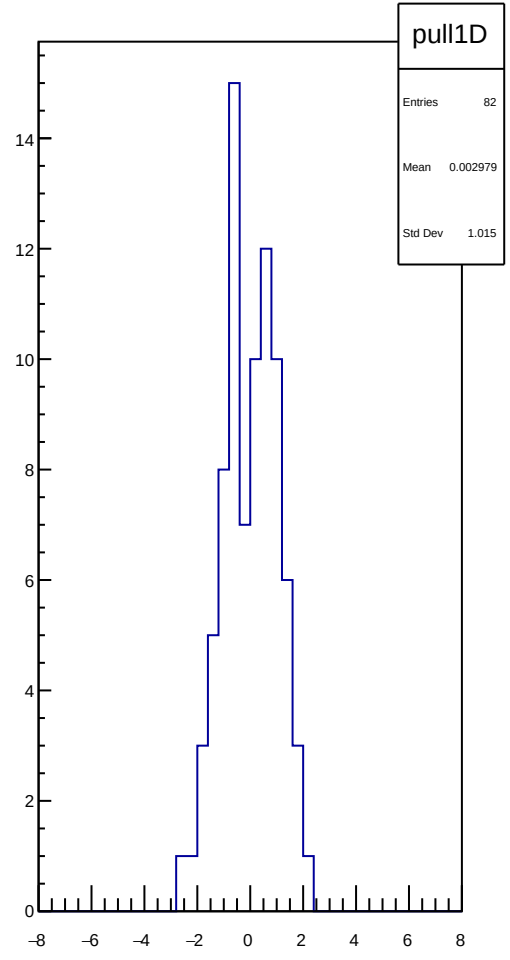

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.104e+05 / 81
p0 0.00545 ± 4.571e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

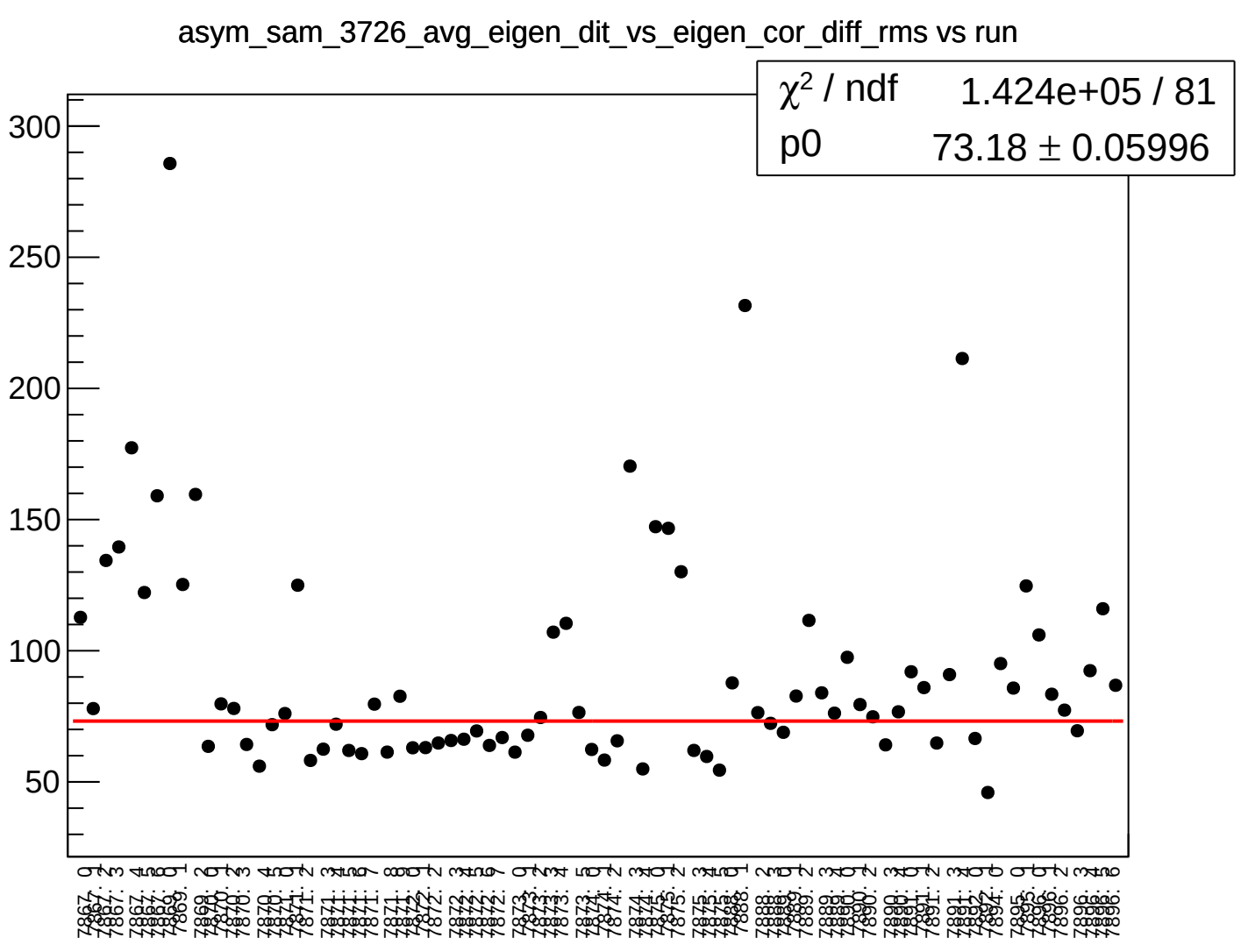

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.48 / 81
p0 −0.008692 ± 0.08479
pull
Entries 82
Mean −1490
Std Dev 0

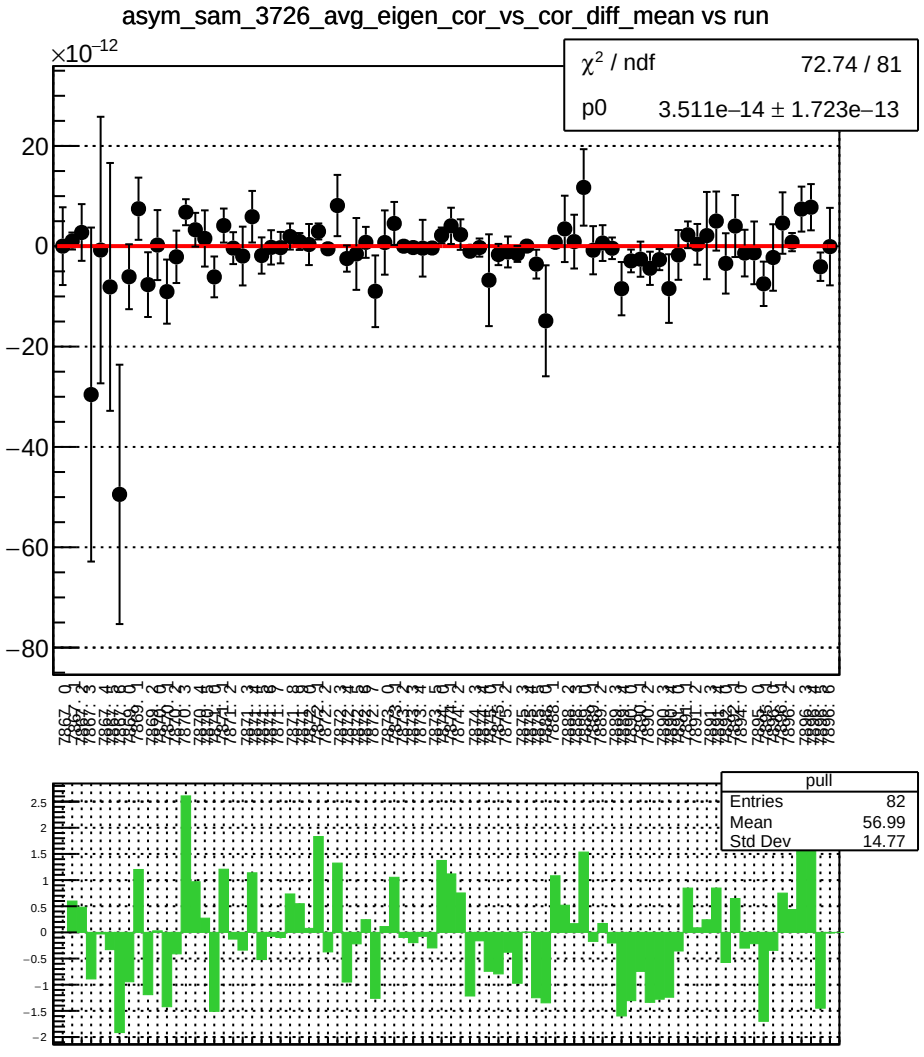

pull1D
Entries 82
Mean 0.002979
Std Dev 1.015

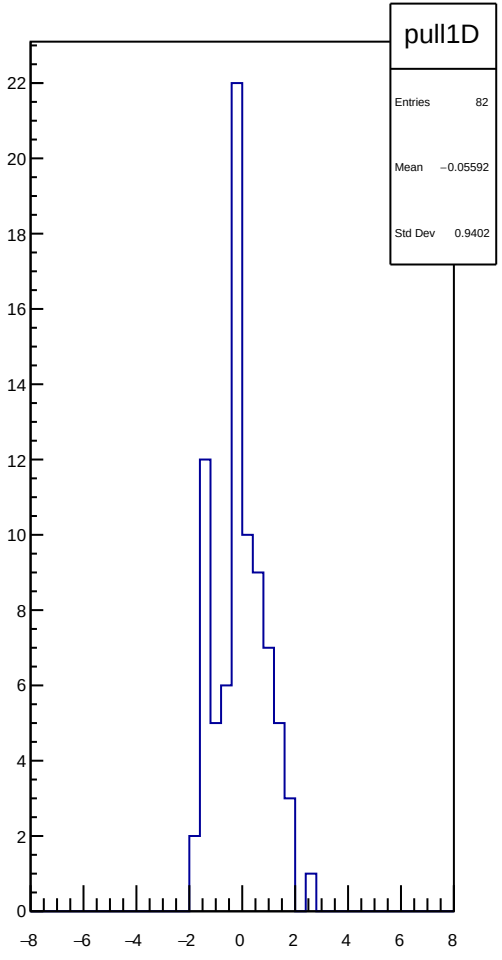

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 81
p0 73.18 ± 0.05996
300
250
200
150
100
50

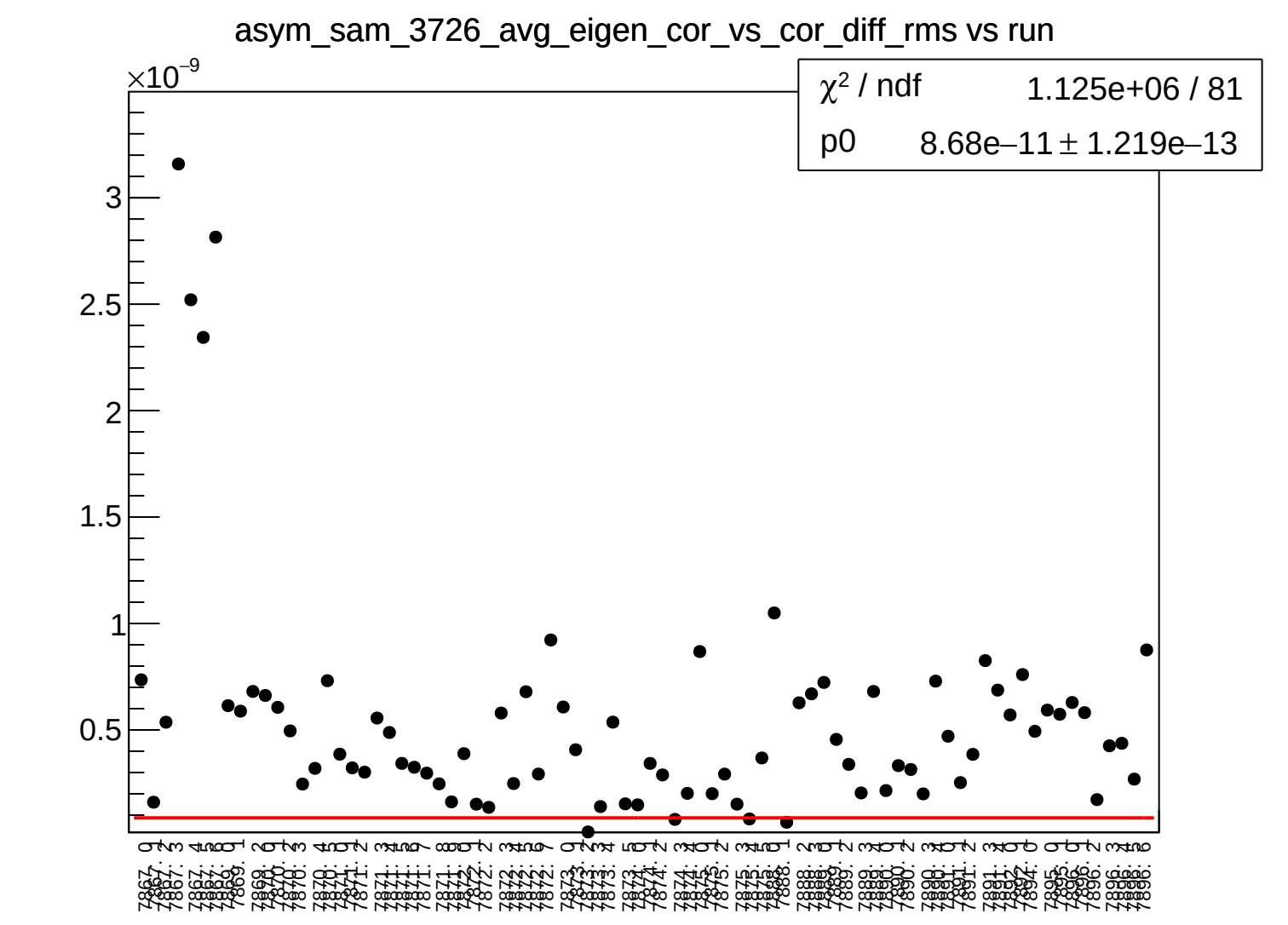

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.48 / 81
p0 −0.008692 ± 0.08479
pull
Entries 82
Mean −1490
Std Dev 0

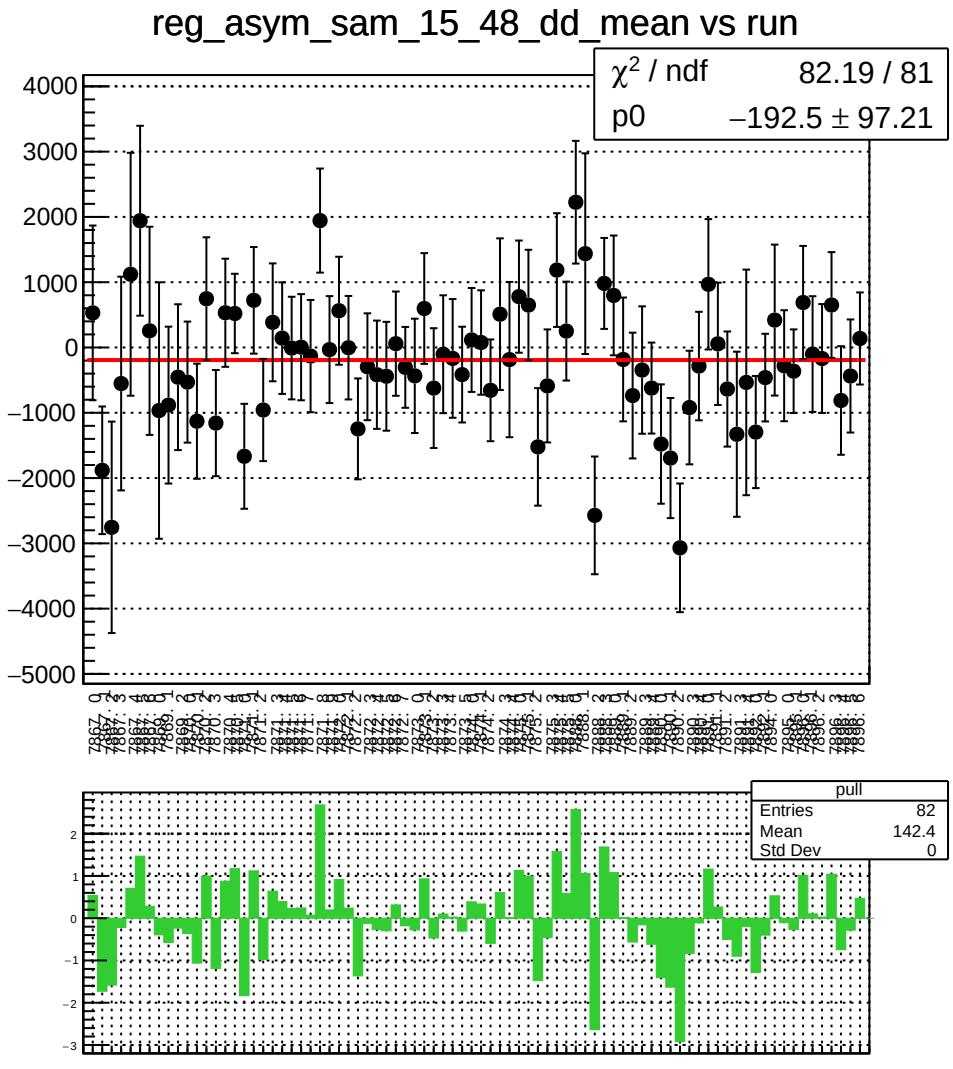

pull1D
Entries 82
Mean 0.002979
Std Dev 1.015

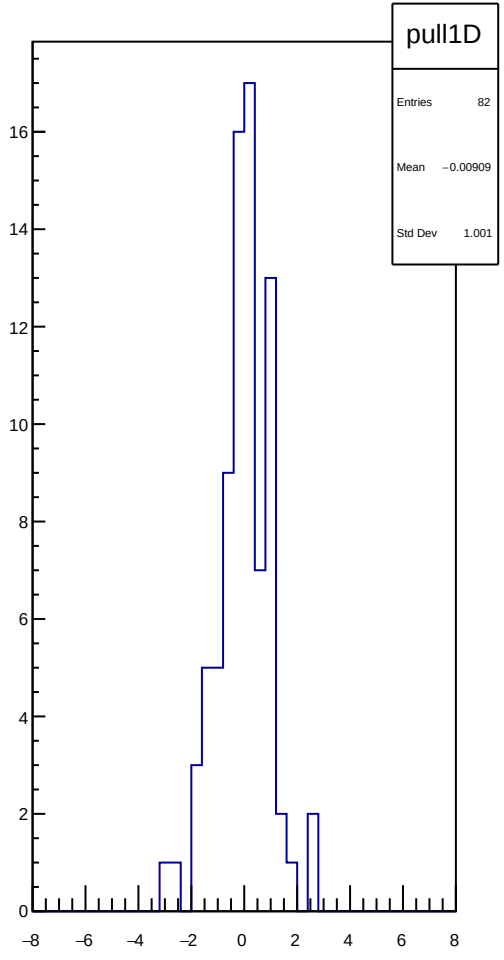

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 81
p0 73.18 ± 0.05996
300
250
200
150
100
50

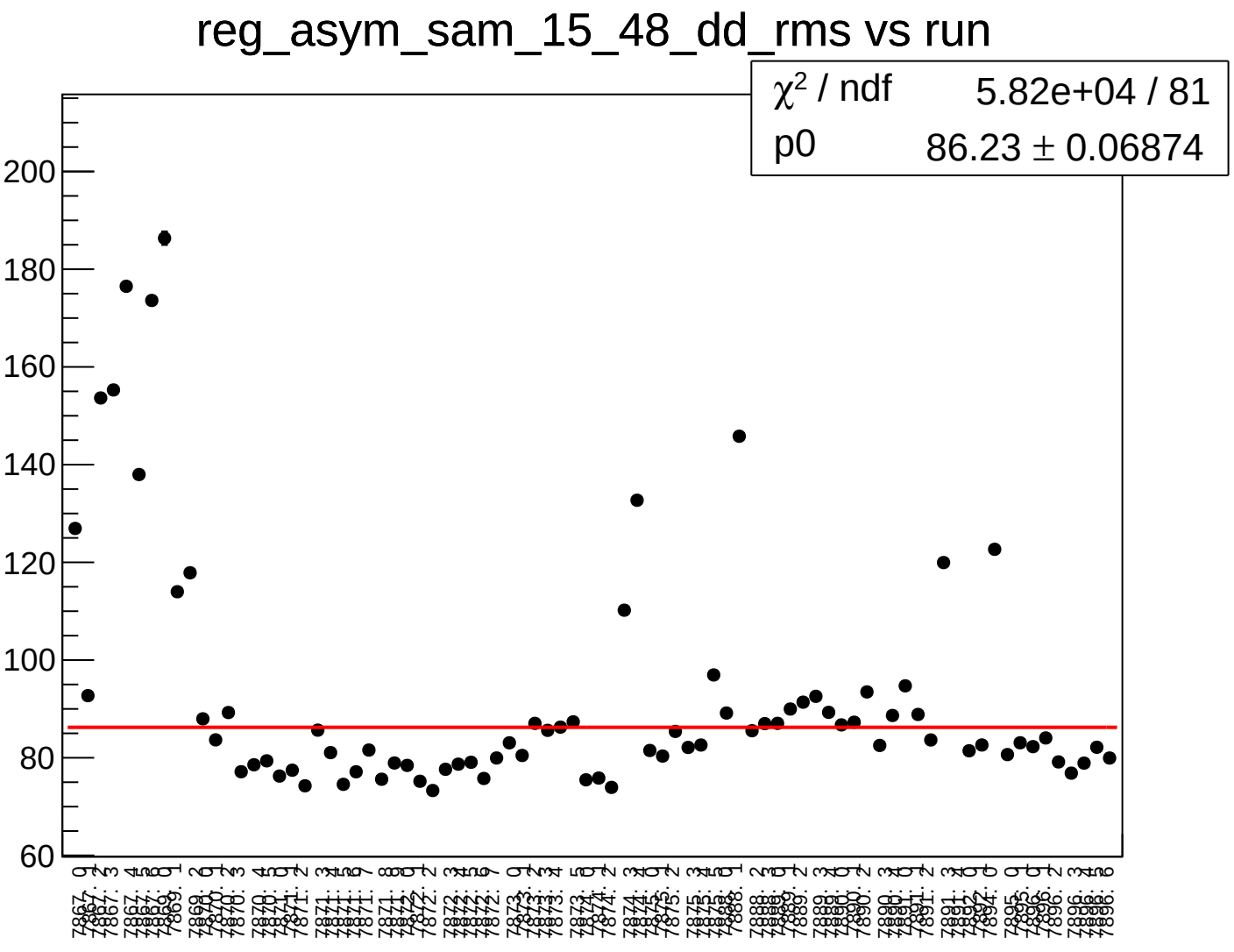

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.74 / 81
p0 3.511e−14 ± 1.723e−13
pull
Entries 82
Mean 56.99
Std Dev 14.77

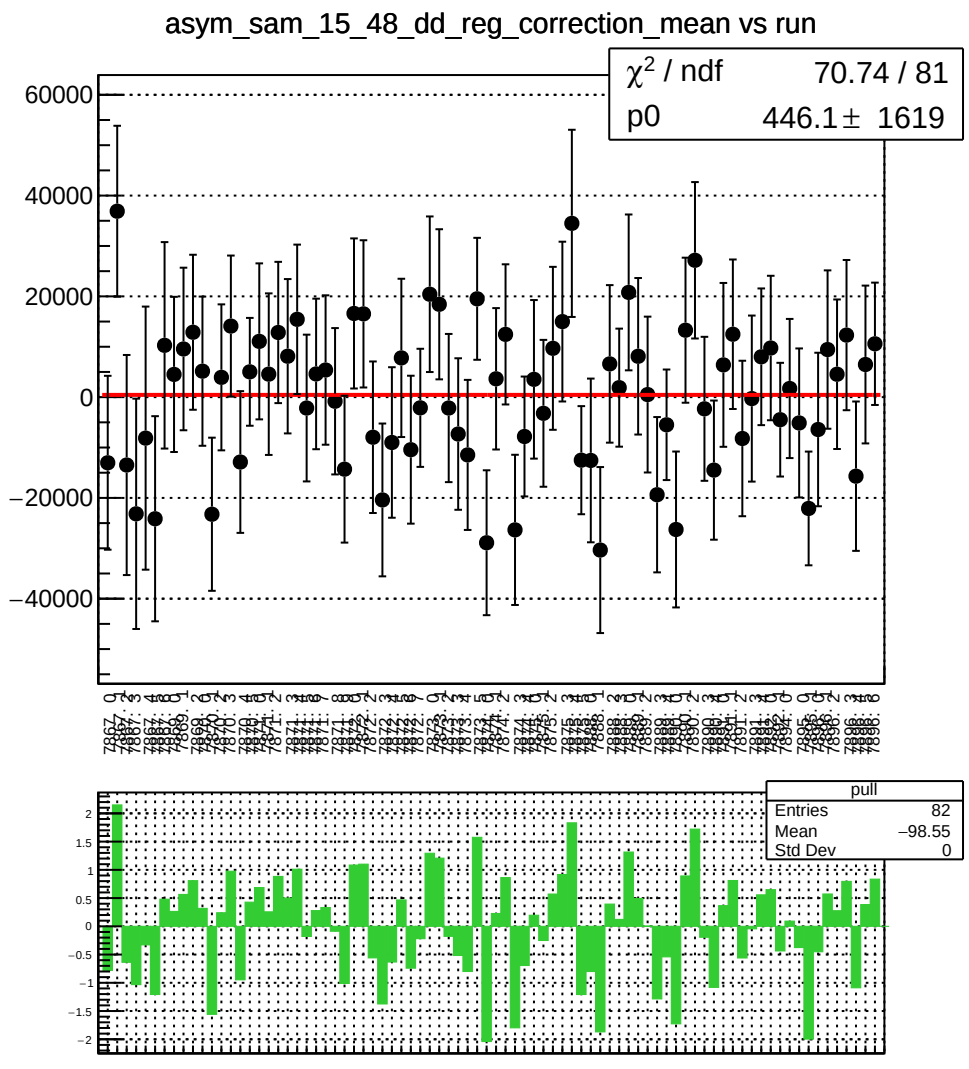

pull1D
Entries 82
Mean −0.05592
Std Dev 0.9402

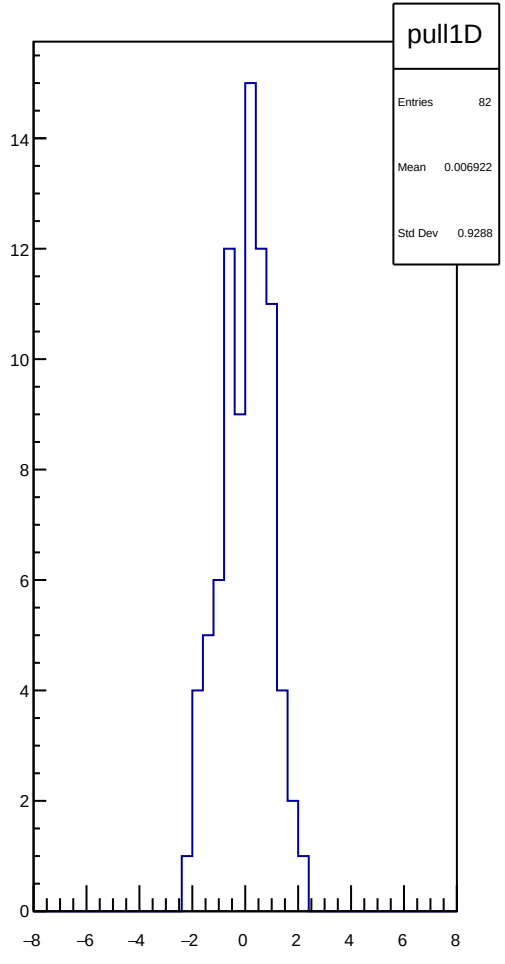

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.125e+06 / 81
p0 8.68e−11 ± 1.219e−13
3
2.5
2
1.5
1
0.5

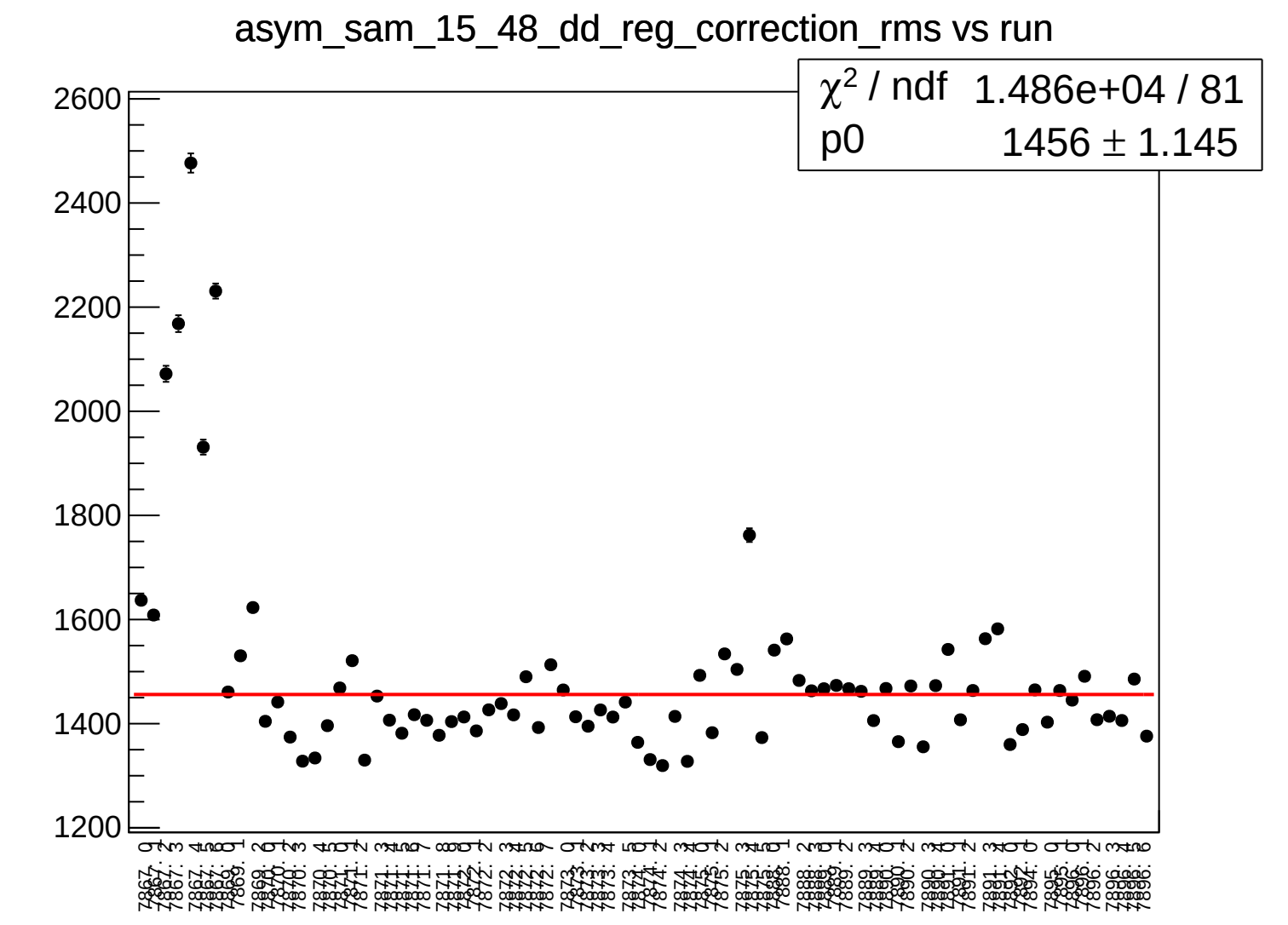

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 82.19 / 81
p0 −192.5 ± 97.21
pull
Entries 82
Mean 142.4
Std Dev 0

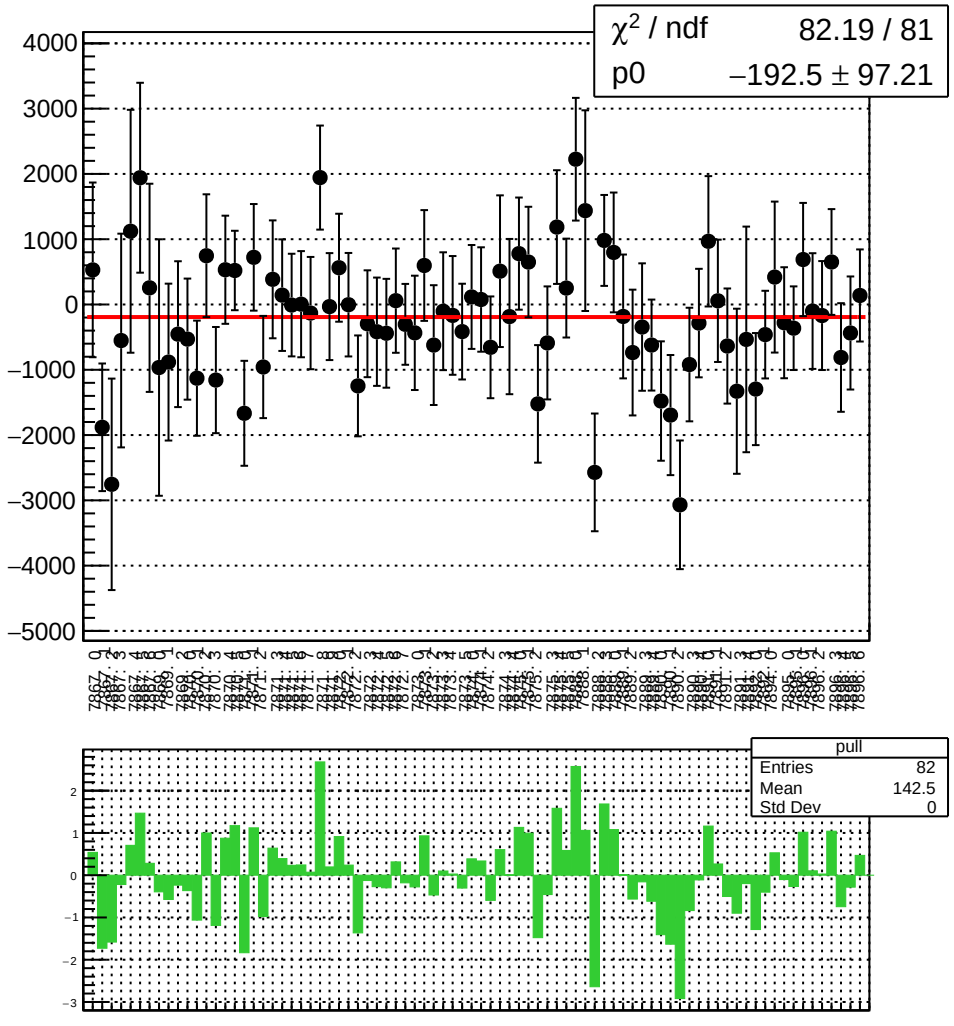

pull1D
Entries 82
Mean −0.00909
Std Dev 1.001

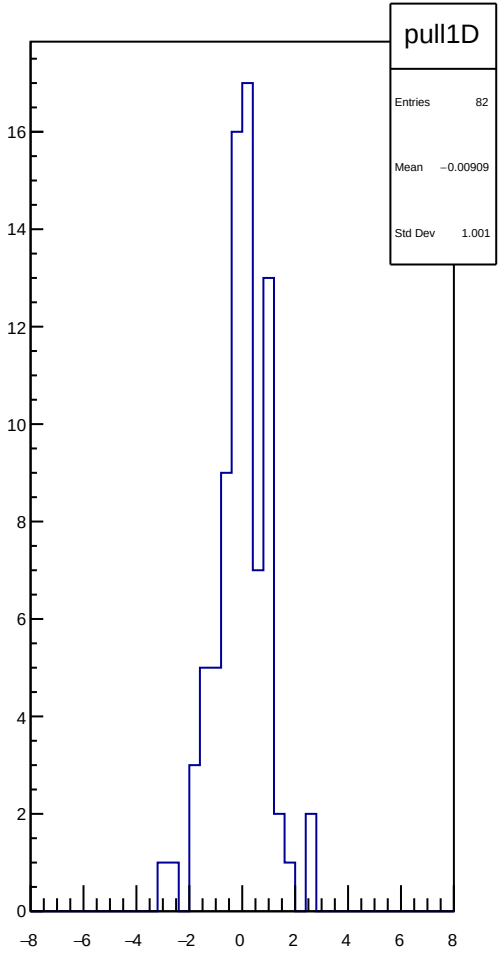

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.82e+04 / 81
p0 86.23 ± 0.06874
200
180
160
140
120
100
80
60

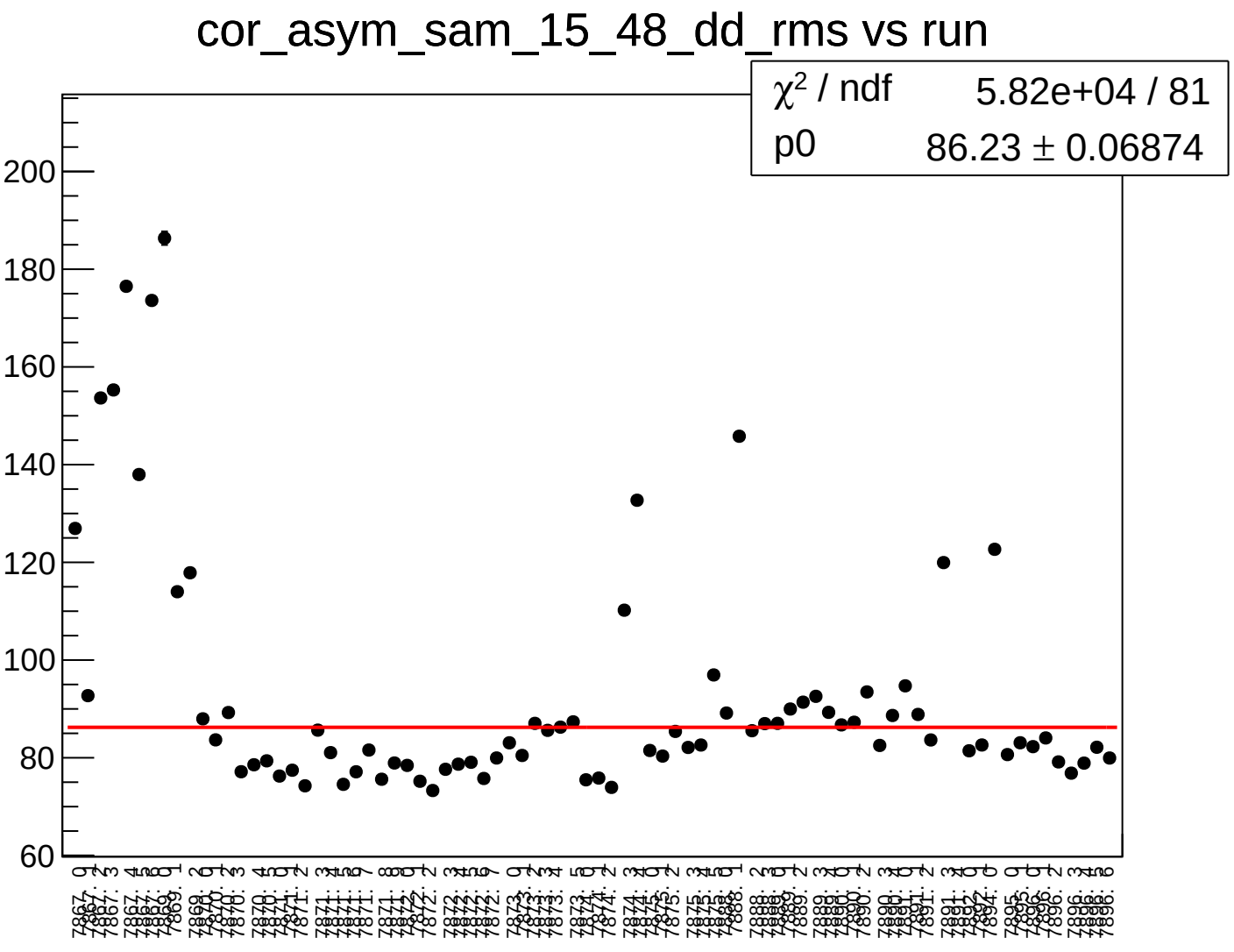

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 70.74 / 81
p0 446.1± 1619
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −98.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

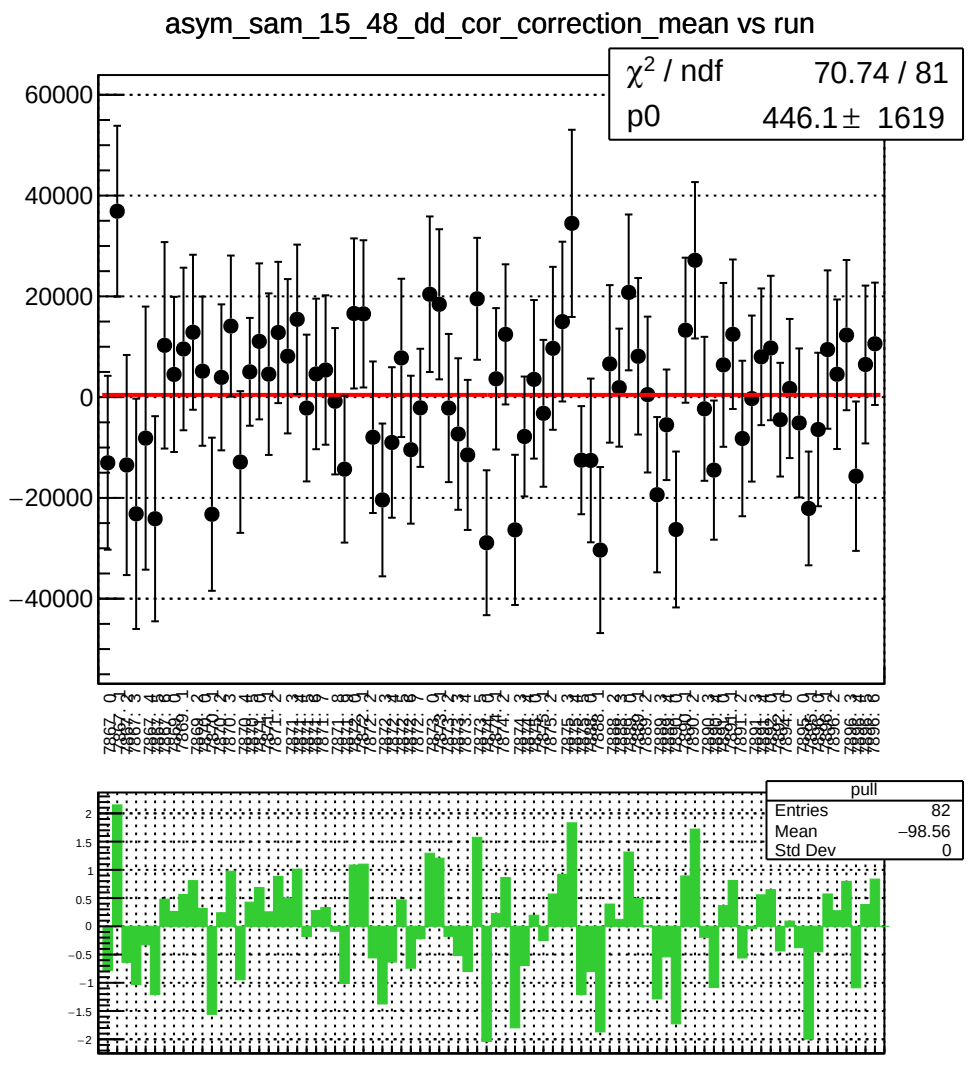

pull1D
Entries 82
Mean 0.006922
Std Dev 0.9288
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

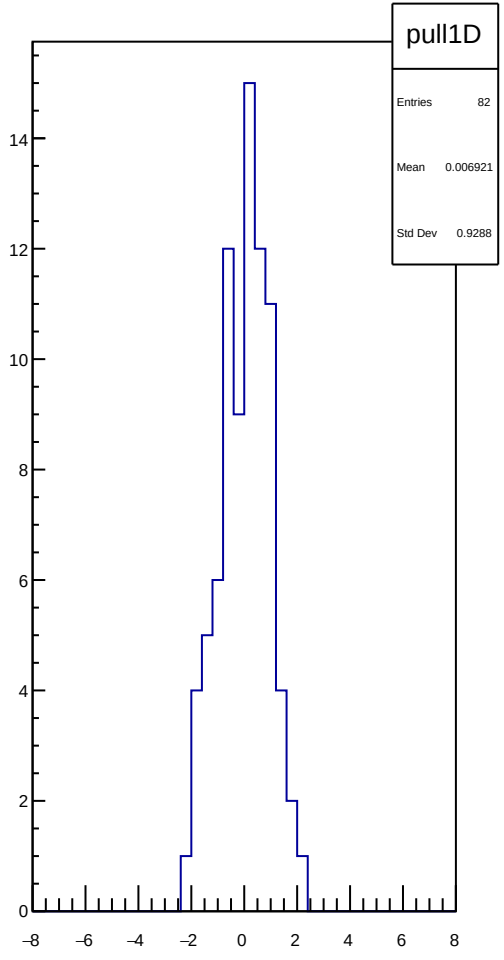

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.486e+04 / 81
p0 1456 ± 1.145
2600
2400
2200
2000
1800
1600
1400
1200

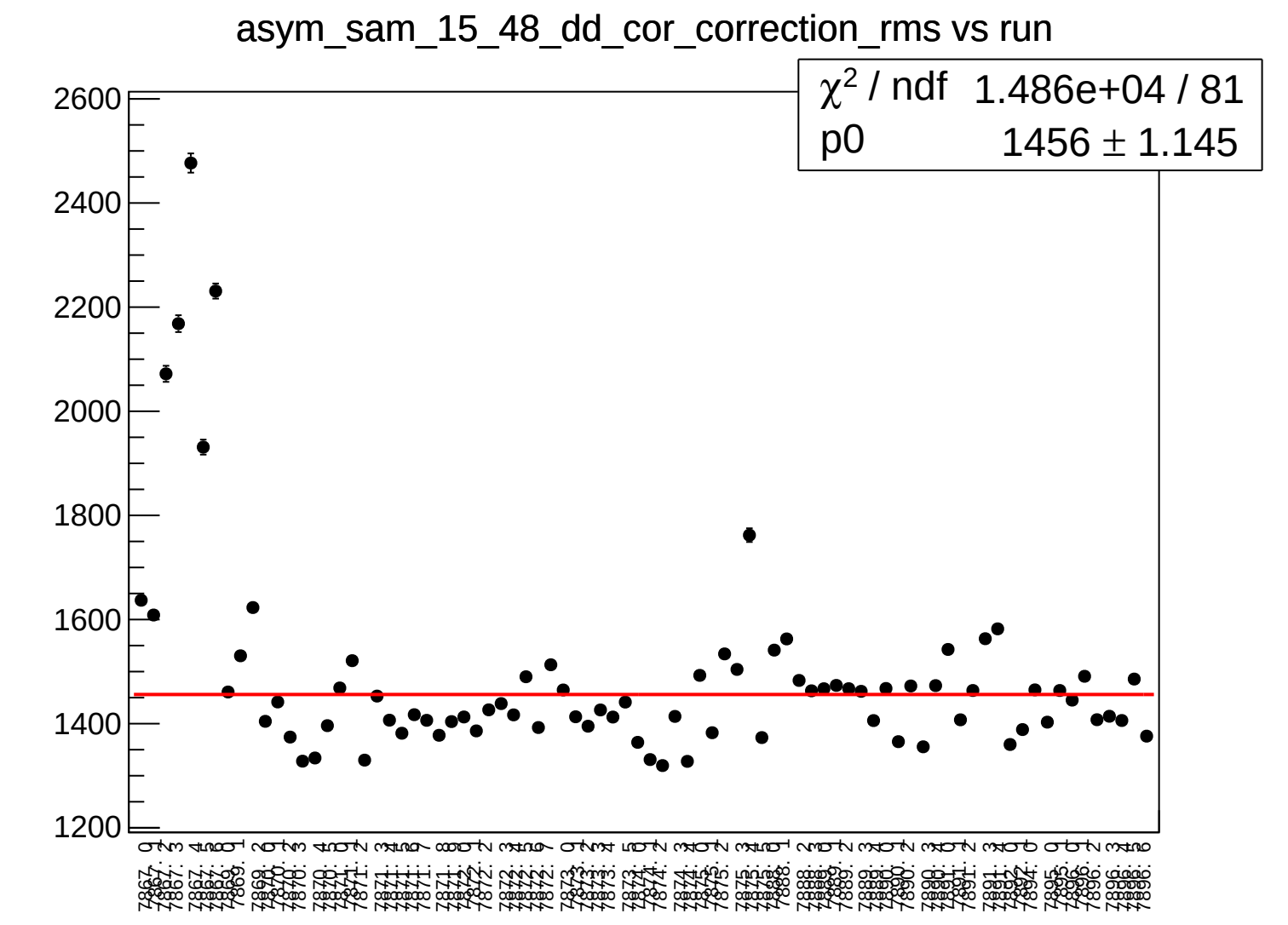

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 82.19 / 81
p0 −192.5 ± 97.21
pull
Entries 82
Mean 142.5
Std Dev 0

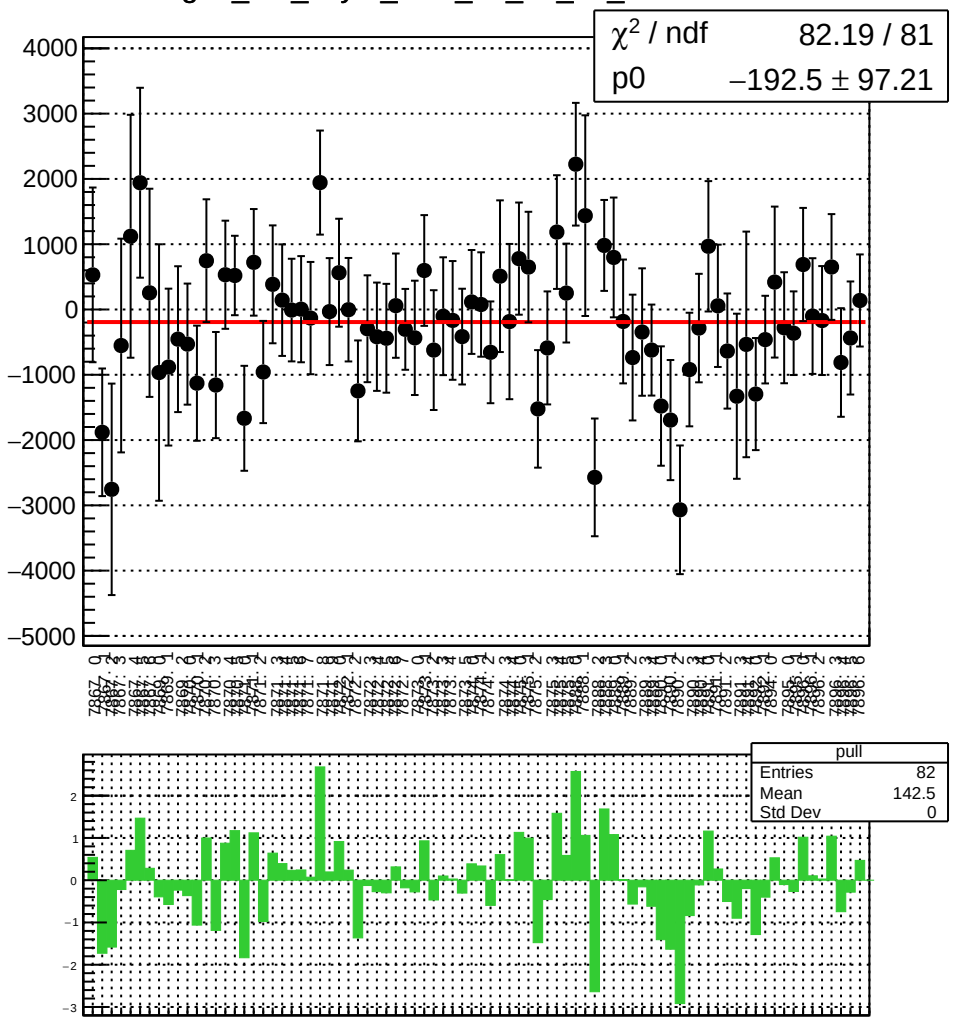

pull1D
Entries 82
Mean −0.00909
Std Dev 1.001

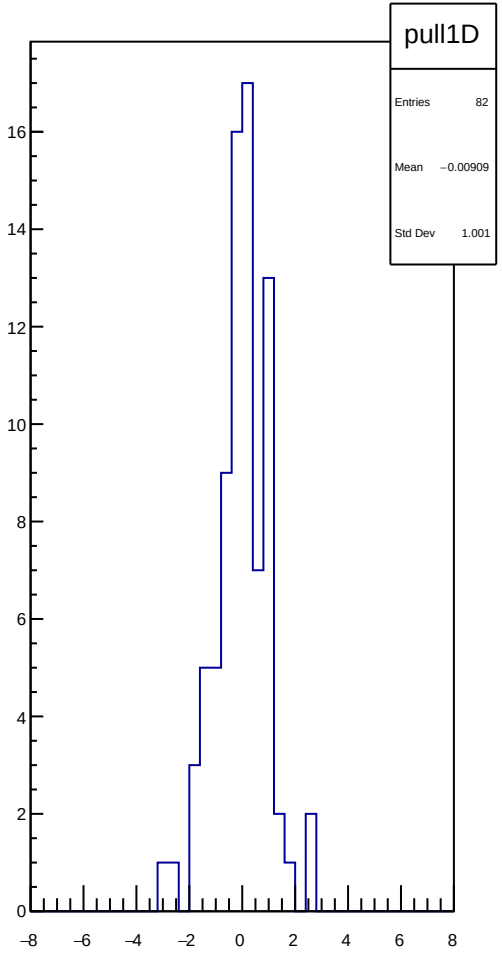

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.82e+04 / 81
p0 86.23 ± 0.06874
200
180
160
140
120
100
80
60

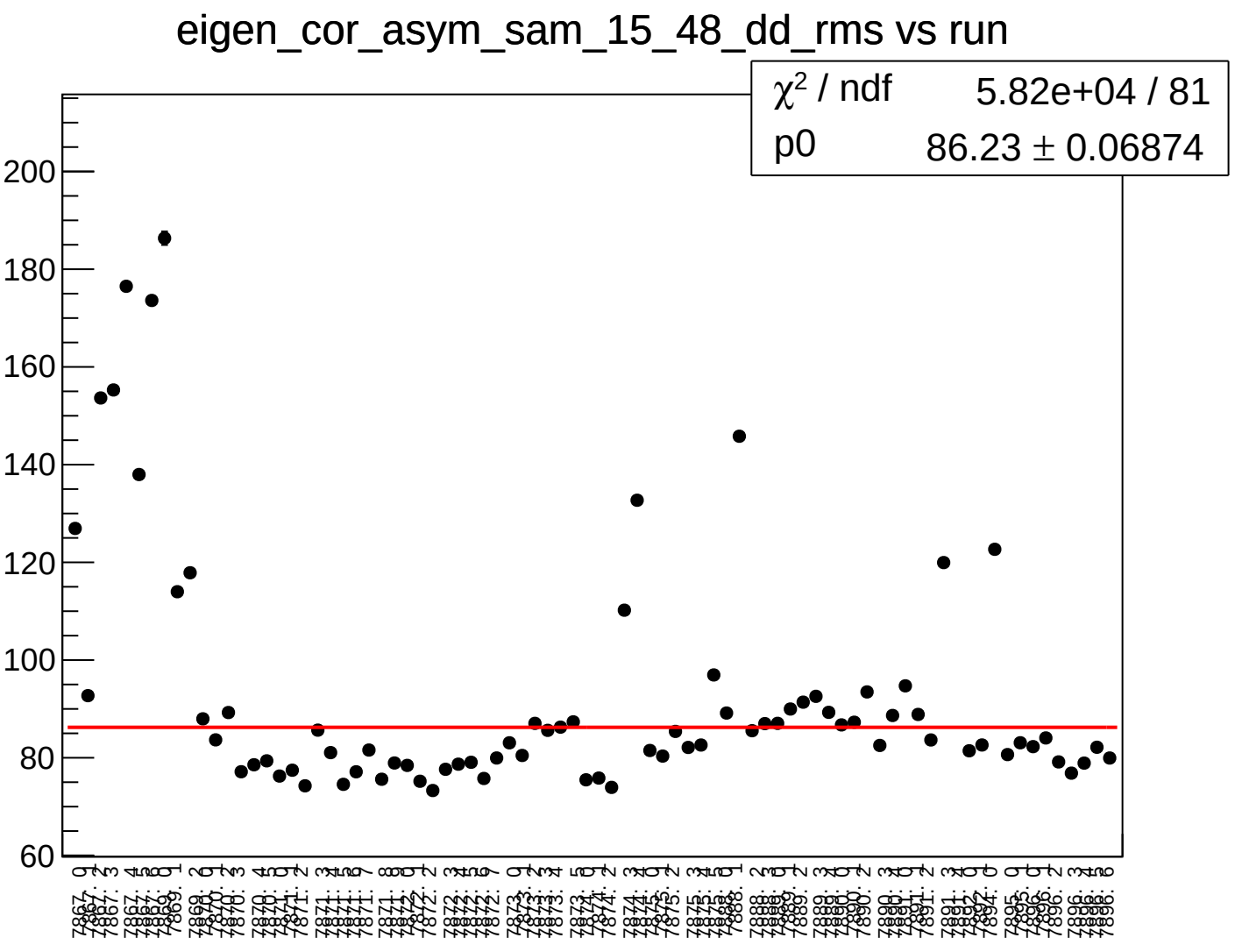

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 70.74 / 81
p0 446.1± 1619
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −98.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

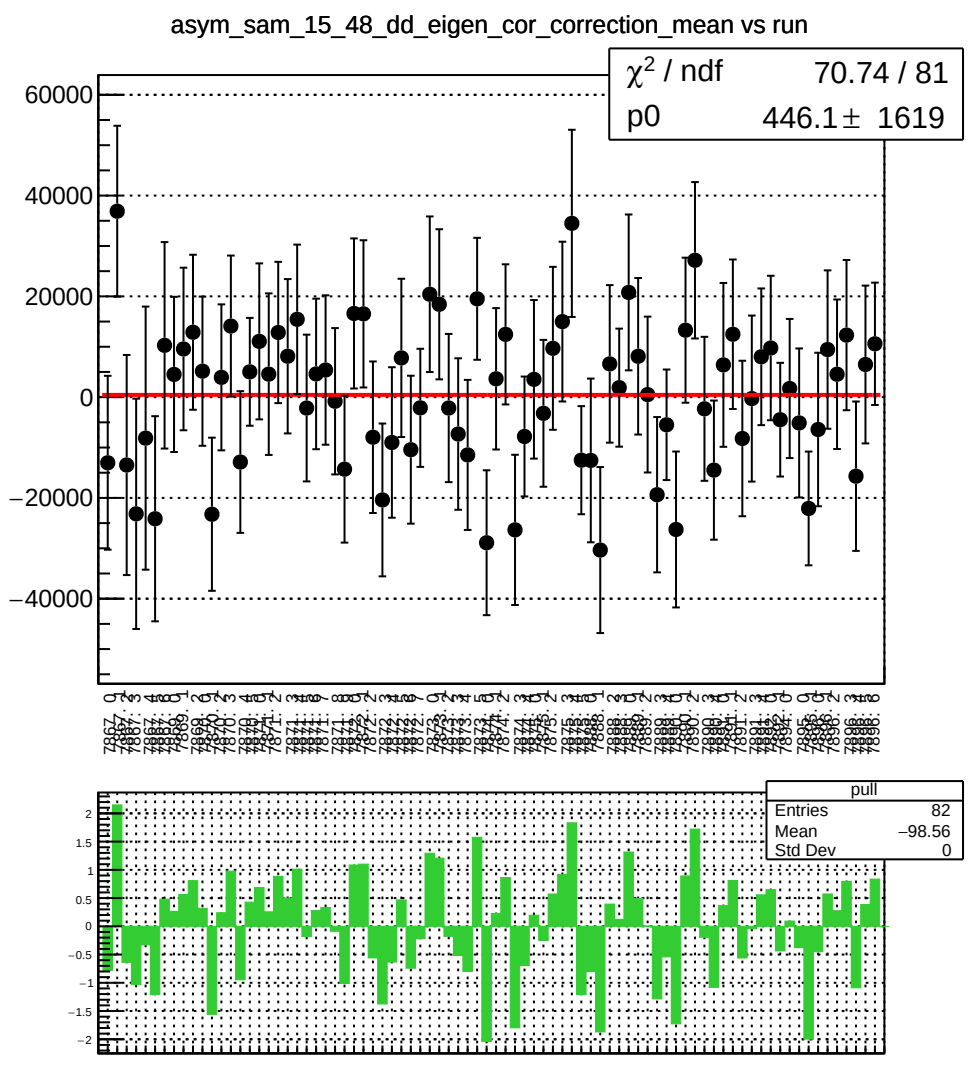

pull1D
Entries 82
Mean 0.006921
Std Dev 0.9288
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

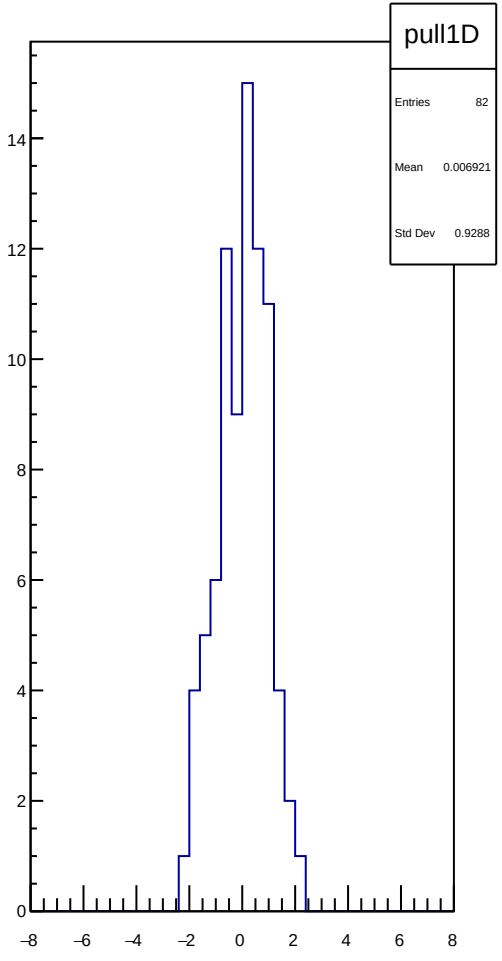

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.486e+04 / 81
p0 1456 ± 1.145
2600
2400
2200
2000
1800
1600
1400
1200

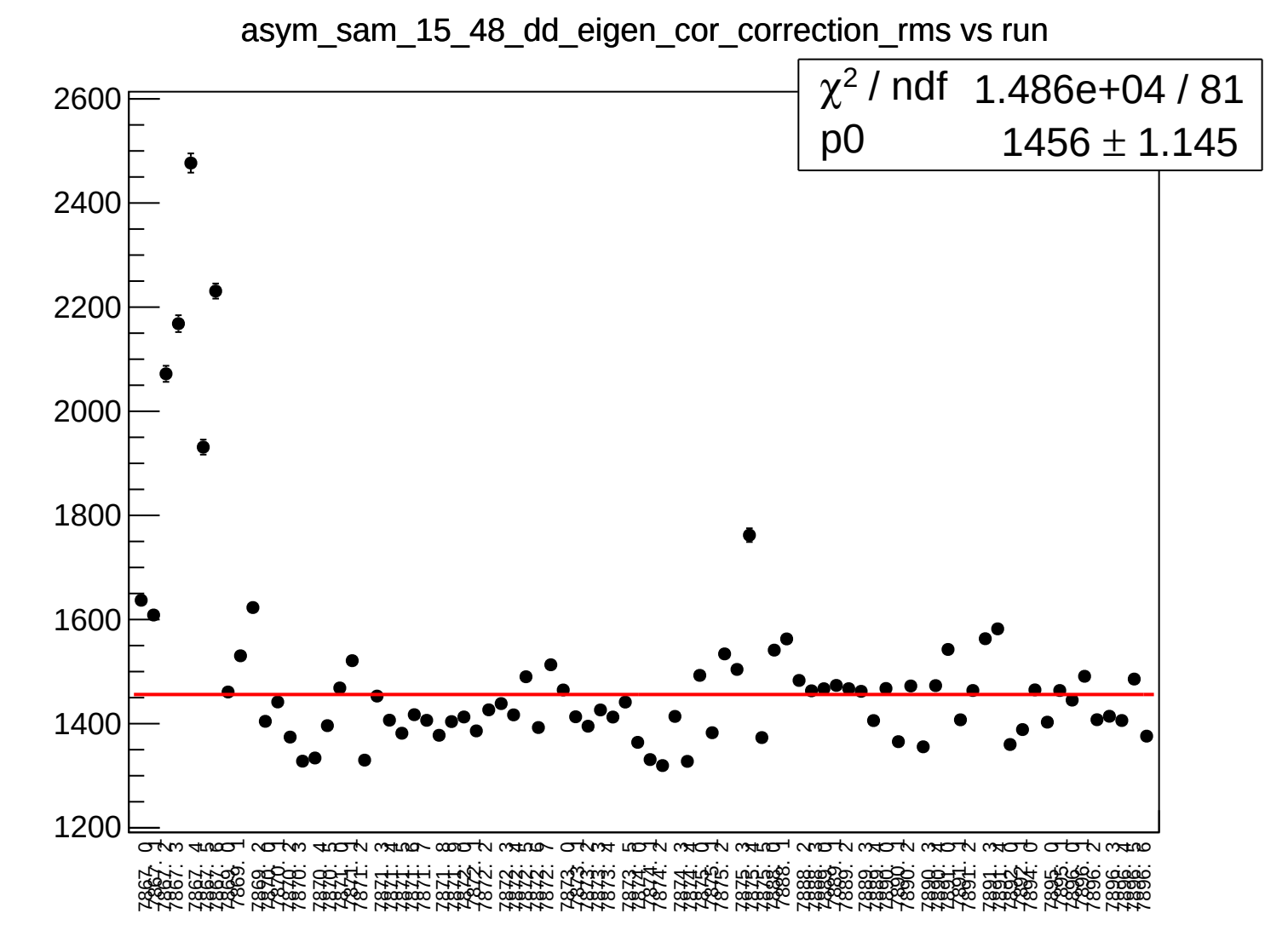

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 82.19 / 81
p0 −192.5 ± 97.21
pull
Entries 82
Mean 142.5
Std Dev 0

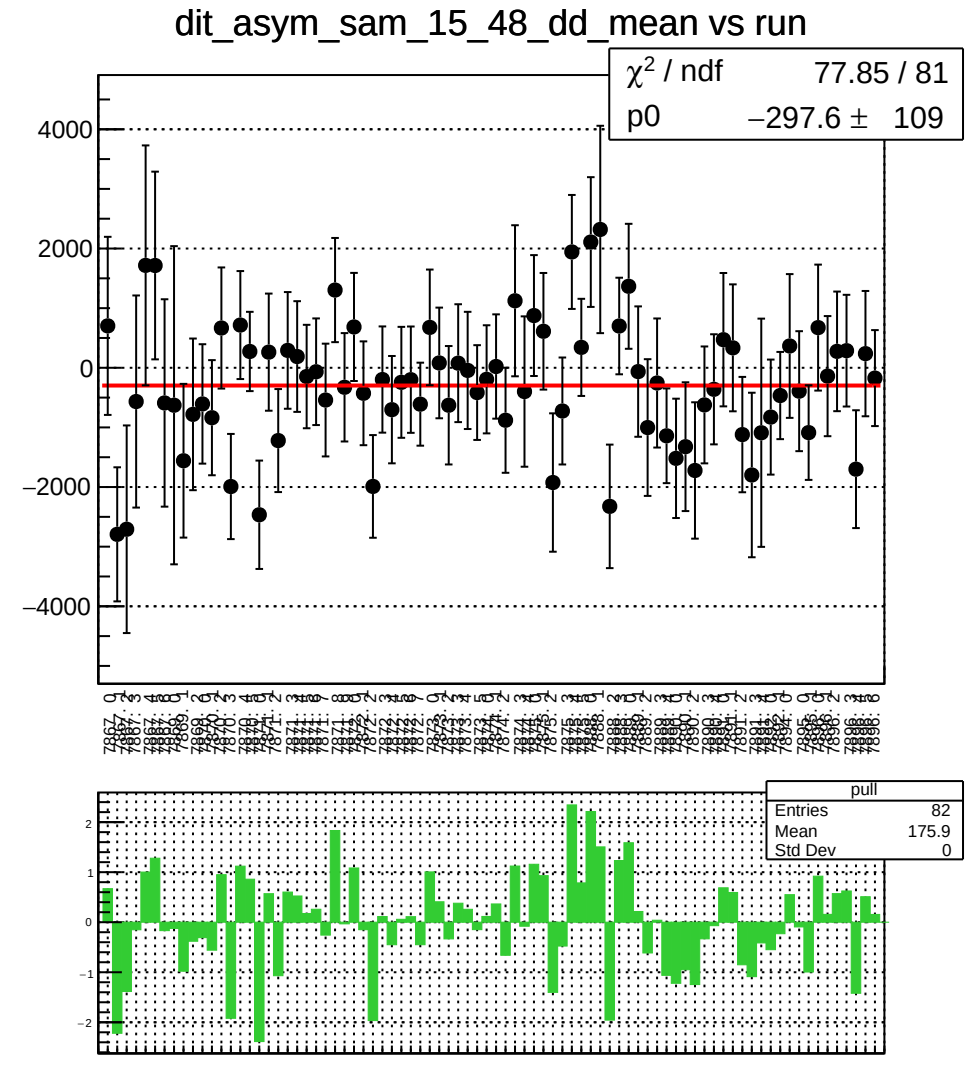

pull1D
Entries 82
Mean −0.00909
Std Dev 1.001

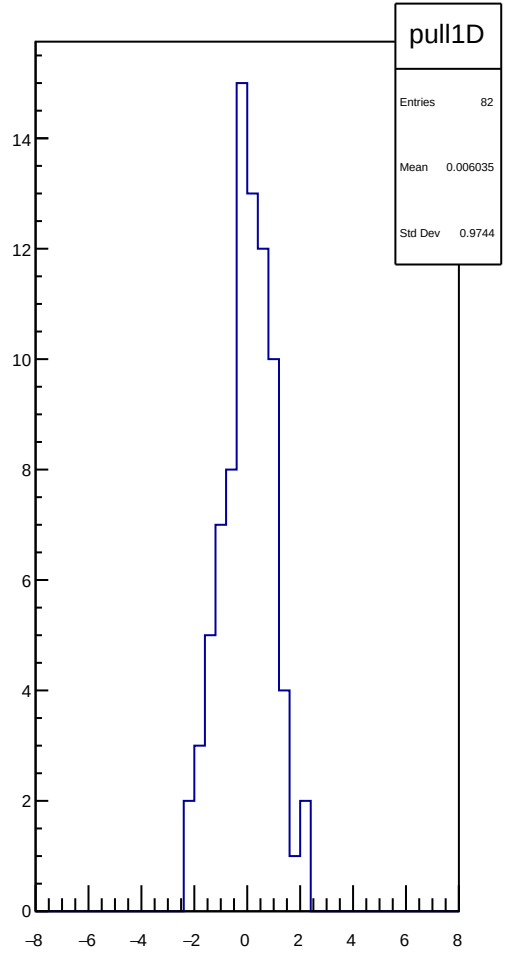

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.82e+04 / 81
p0 86.23 ± 0.06874
200
180
160
140
120
100
80
60

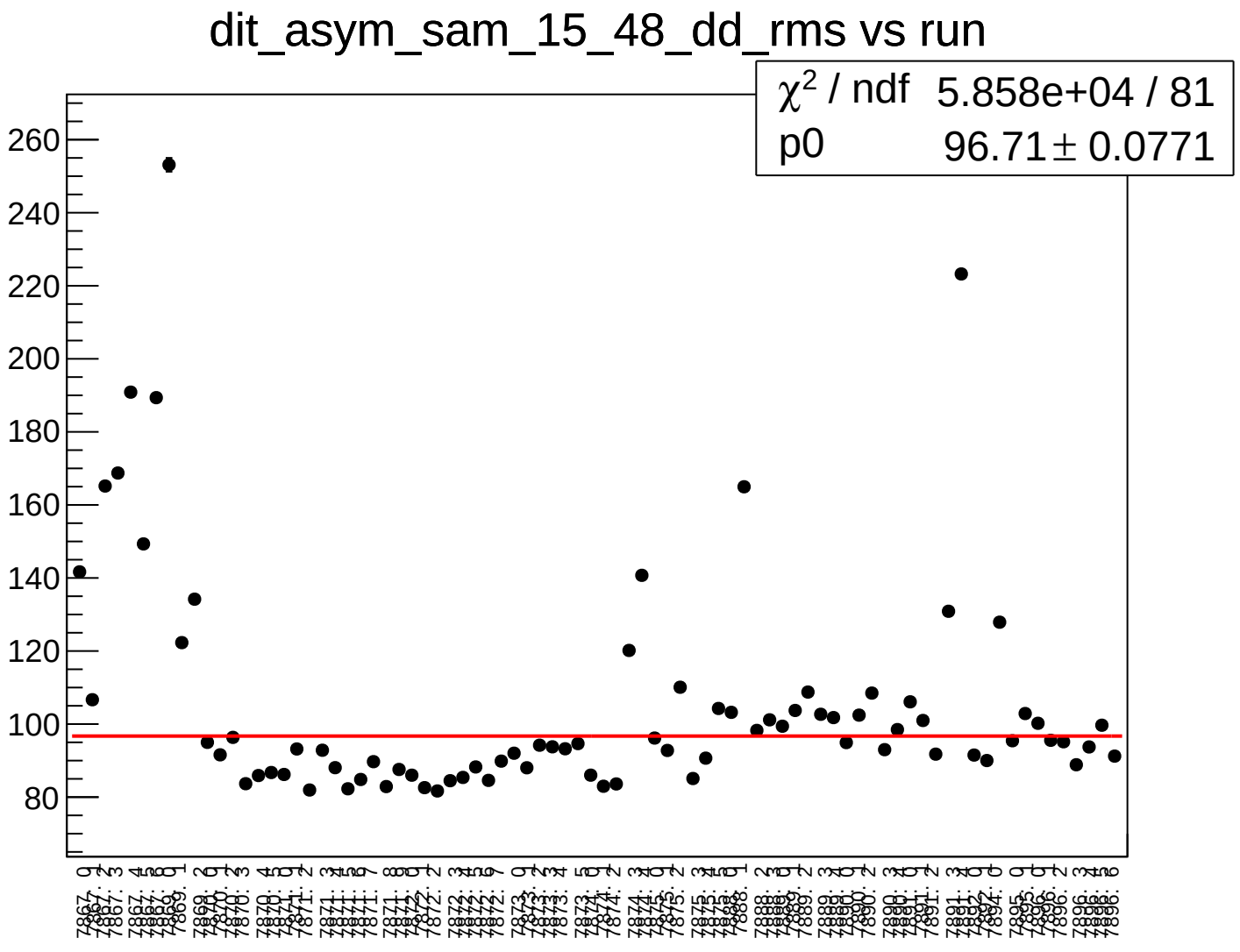

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.74 / 81
p0 446.1± 1619
pull
Entries 82
Mean −98.56
Std Dev 0

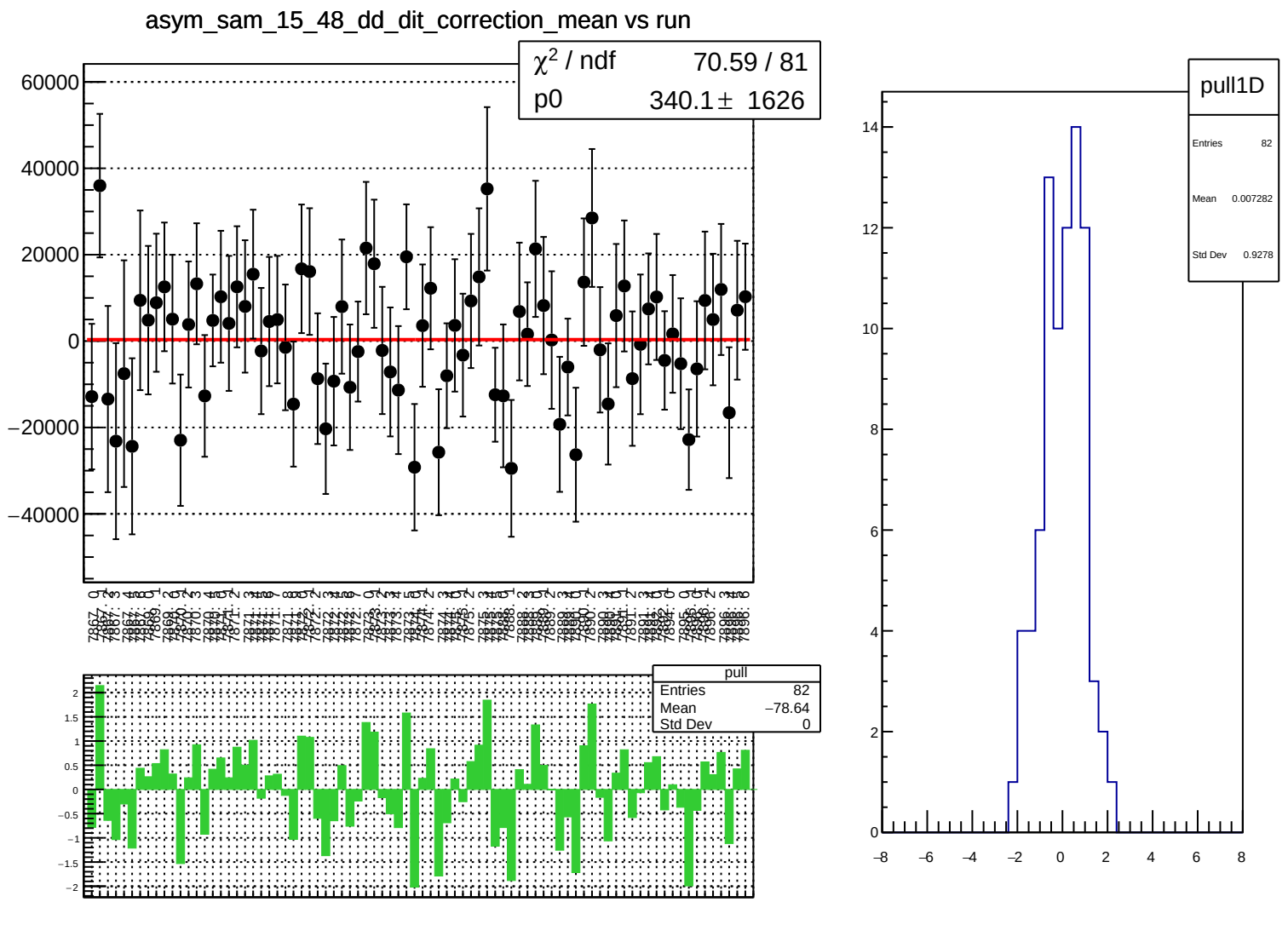

pull1D
Entries 82
Mean 0.006921
Std Dev 0.9288

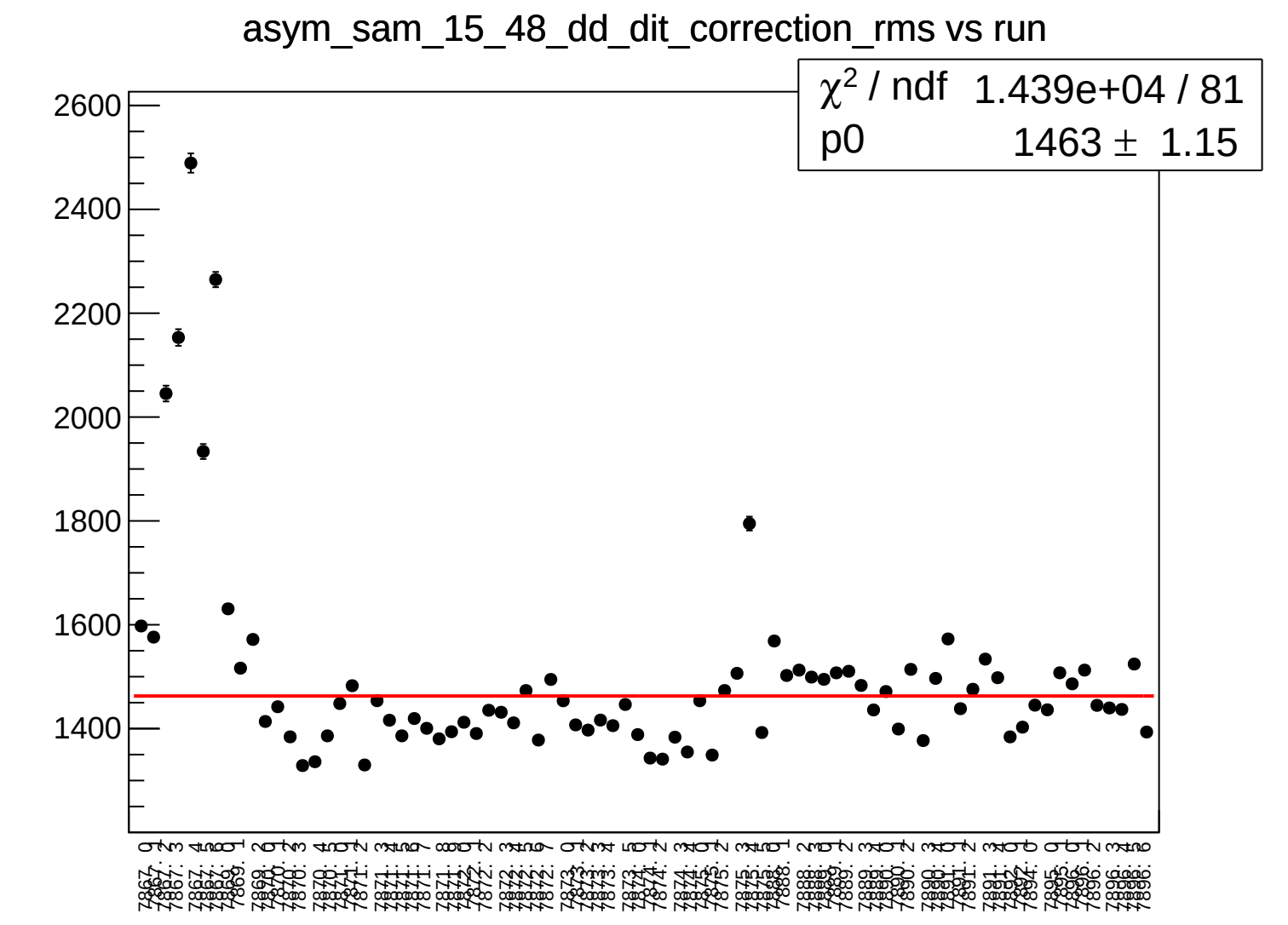

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.486e+04 / 81
p0 1456 ± 1.145
2600
2400
2200
2000
1800
1600
1400
1200

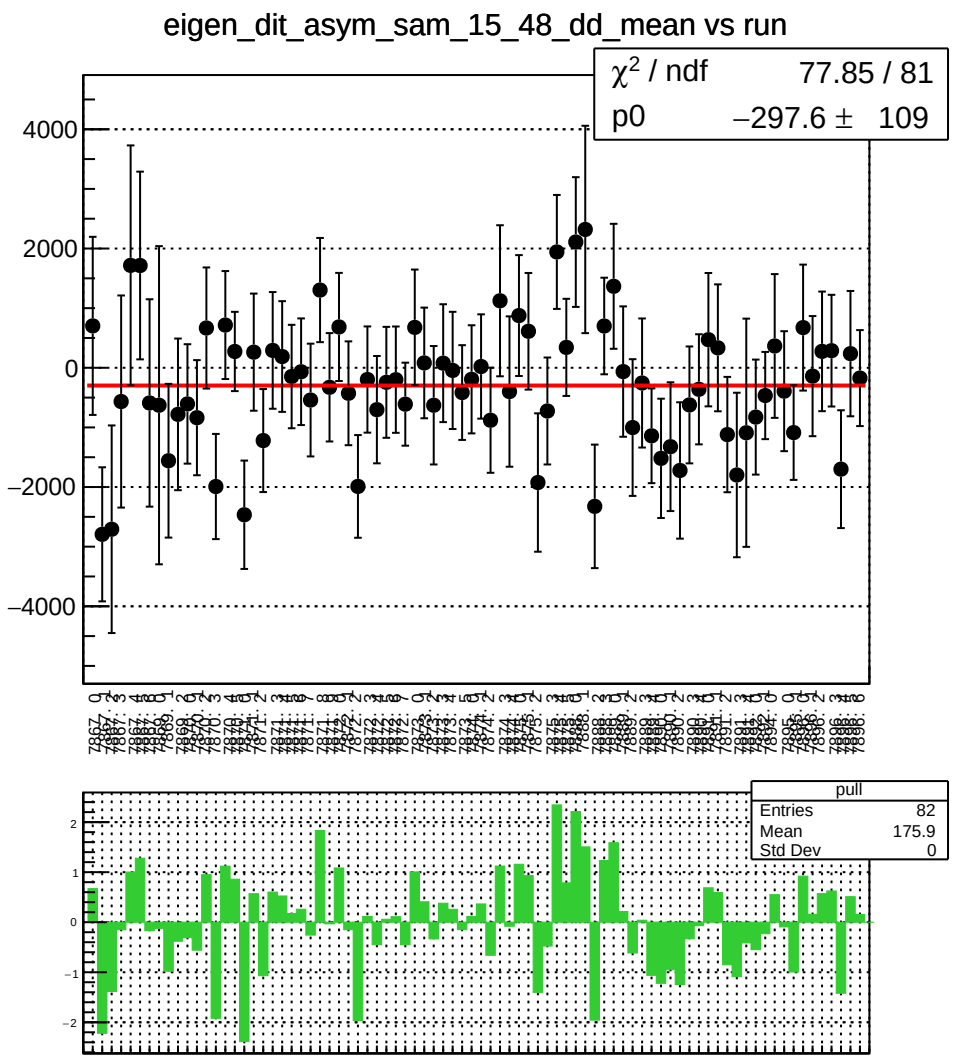

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 77.85 / 81
p0 −297.6 ± 109
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 175.9
Std Dev 0
2
1
0
−1
−2

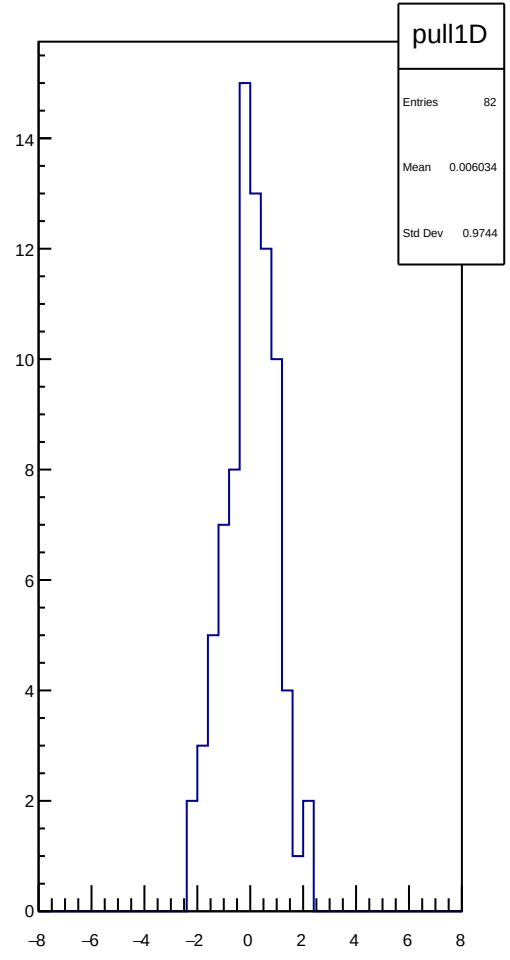

pull1D
Entries 82
Mean 0.006035
Std Dev 0.9744
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

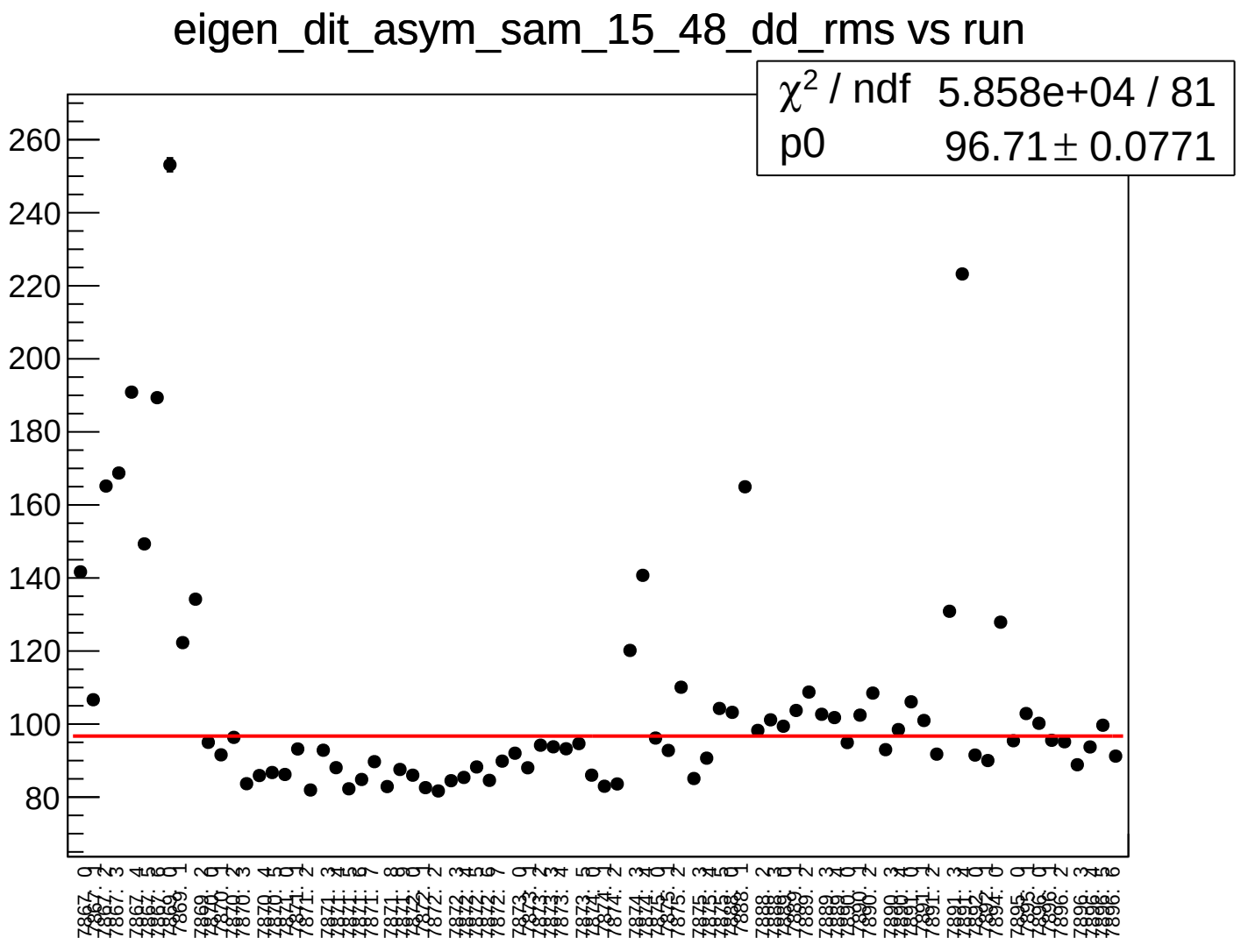

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 5.858e+04 / 81
p0 96.71 ± 0.0771
260
240
220
200
180
160
140
120
100
80

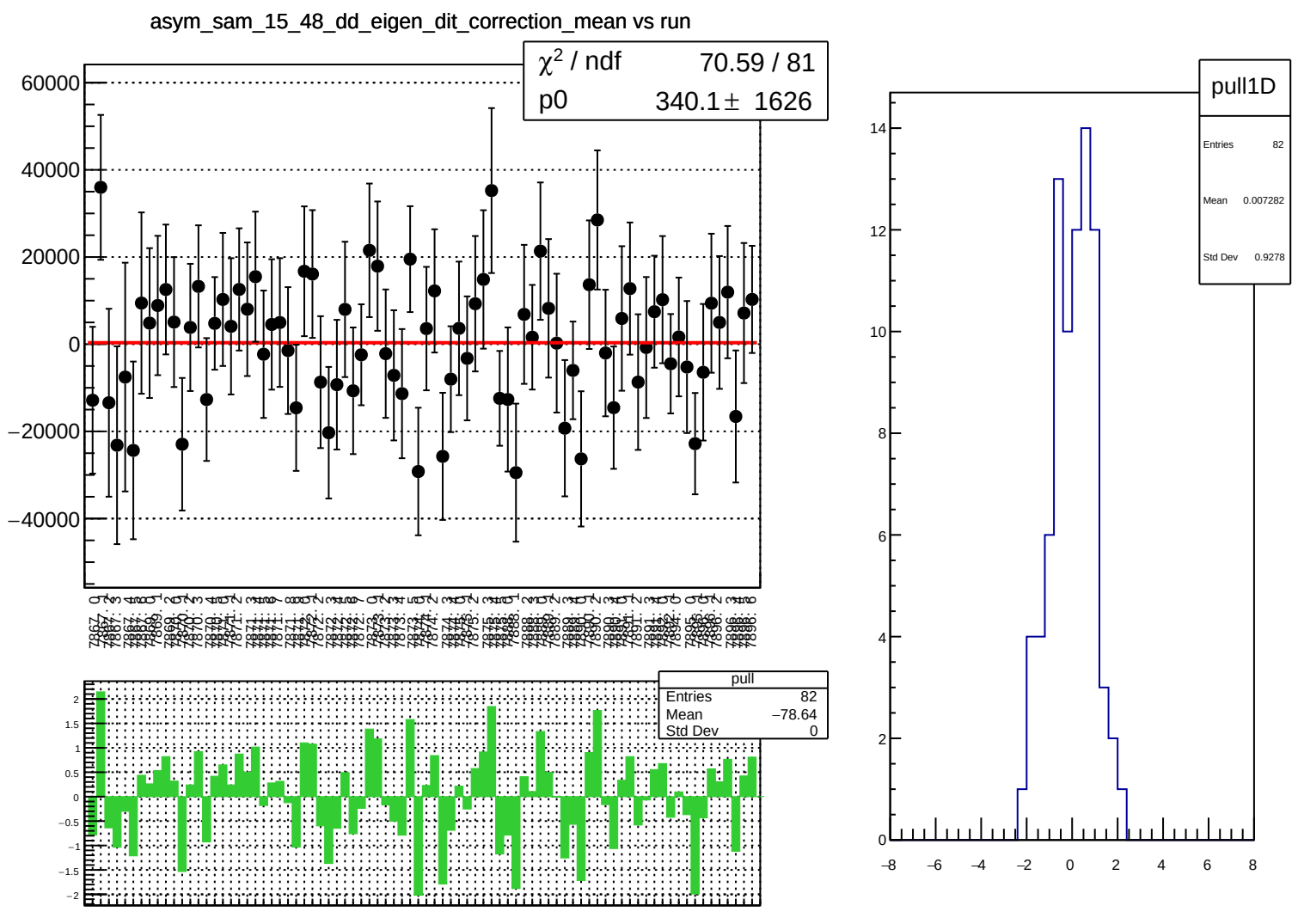

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 70.59 / 81
p0 340.1 ± 1626
pull
Entries 82
Mean −78.64
Std Dev 0
pull1D
Entries 82
Mean 0.007282
Std Dev 0.9278

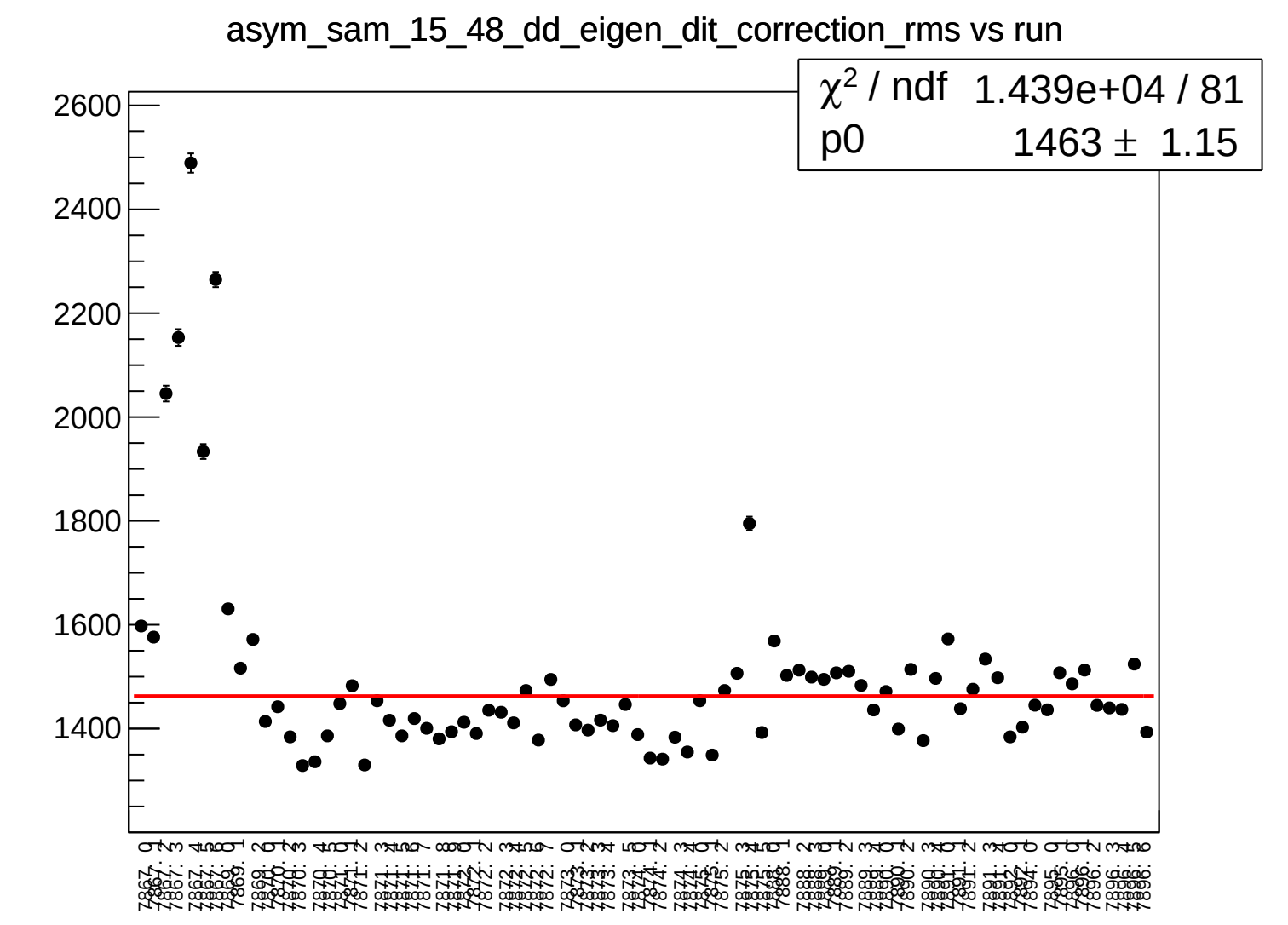

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.439e+04 / 81
p0 1463 ± 1.15
2600
2400
2200
2000
1800
1600
1400

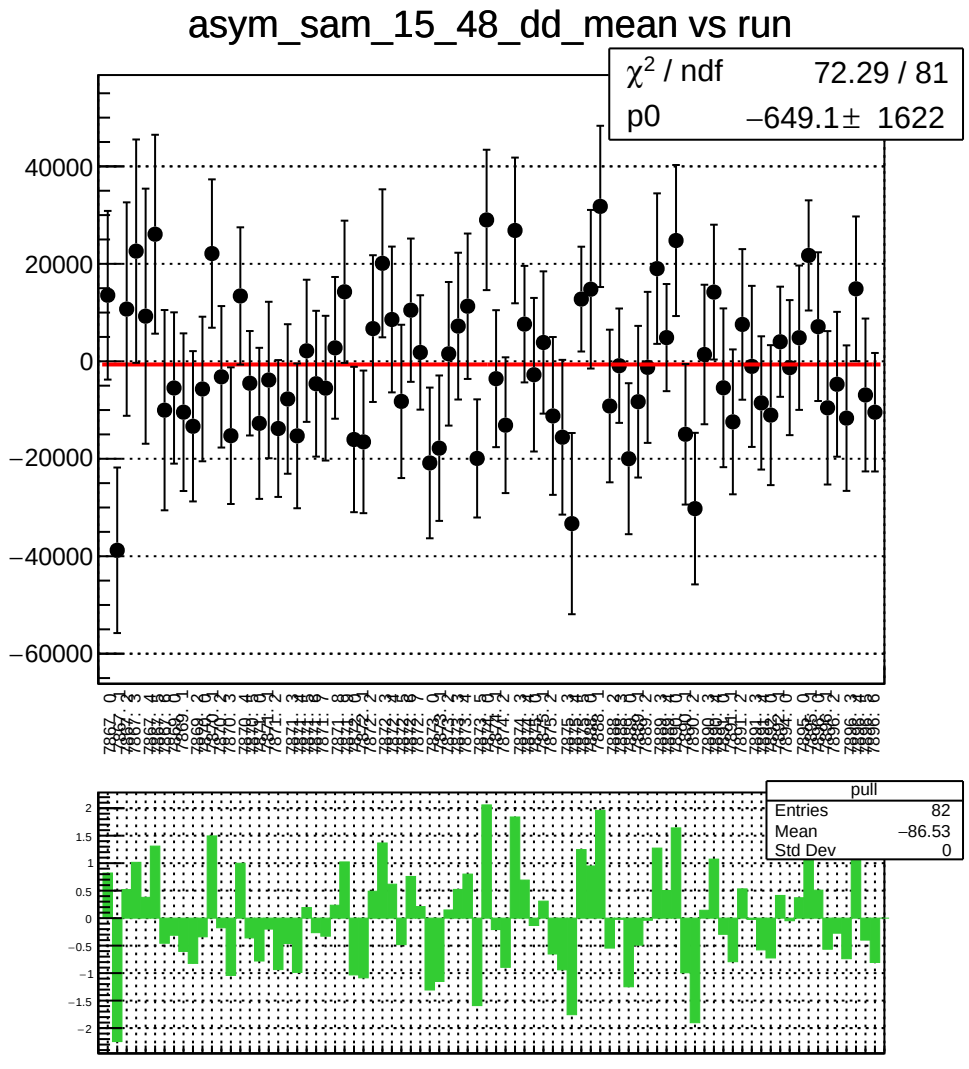

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 77.85 / 81
p0 −297.6 ± 109
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 175.9
Std Dev 0
2
1
0
−1
−2

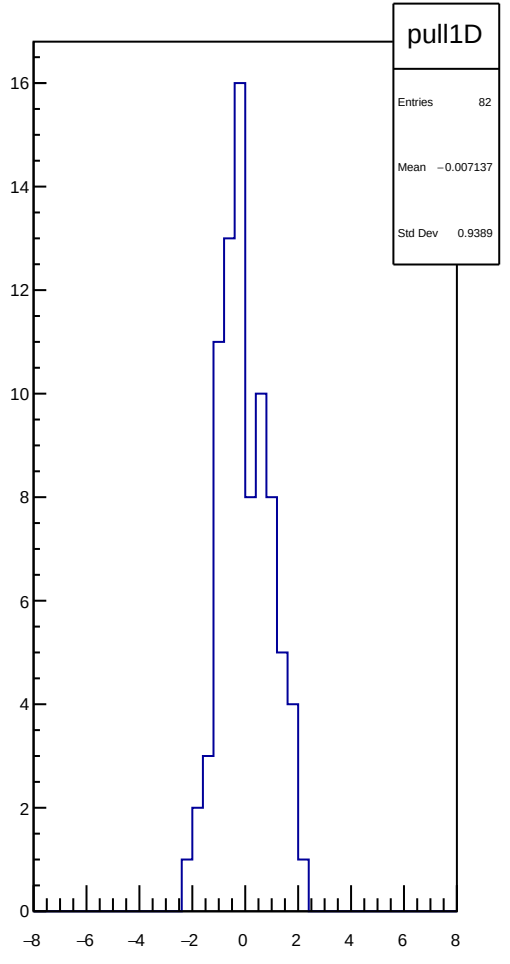

pull1D
Entries 82
Mean 0.006034
Std Dev 0.9744
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

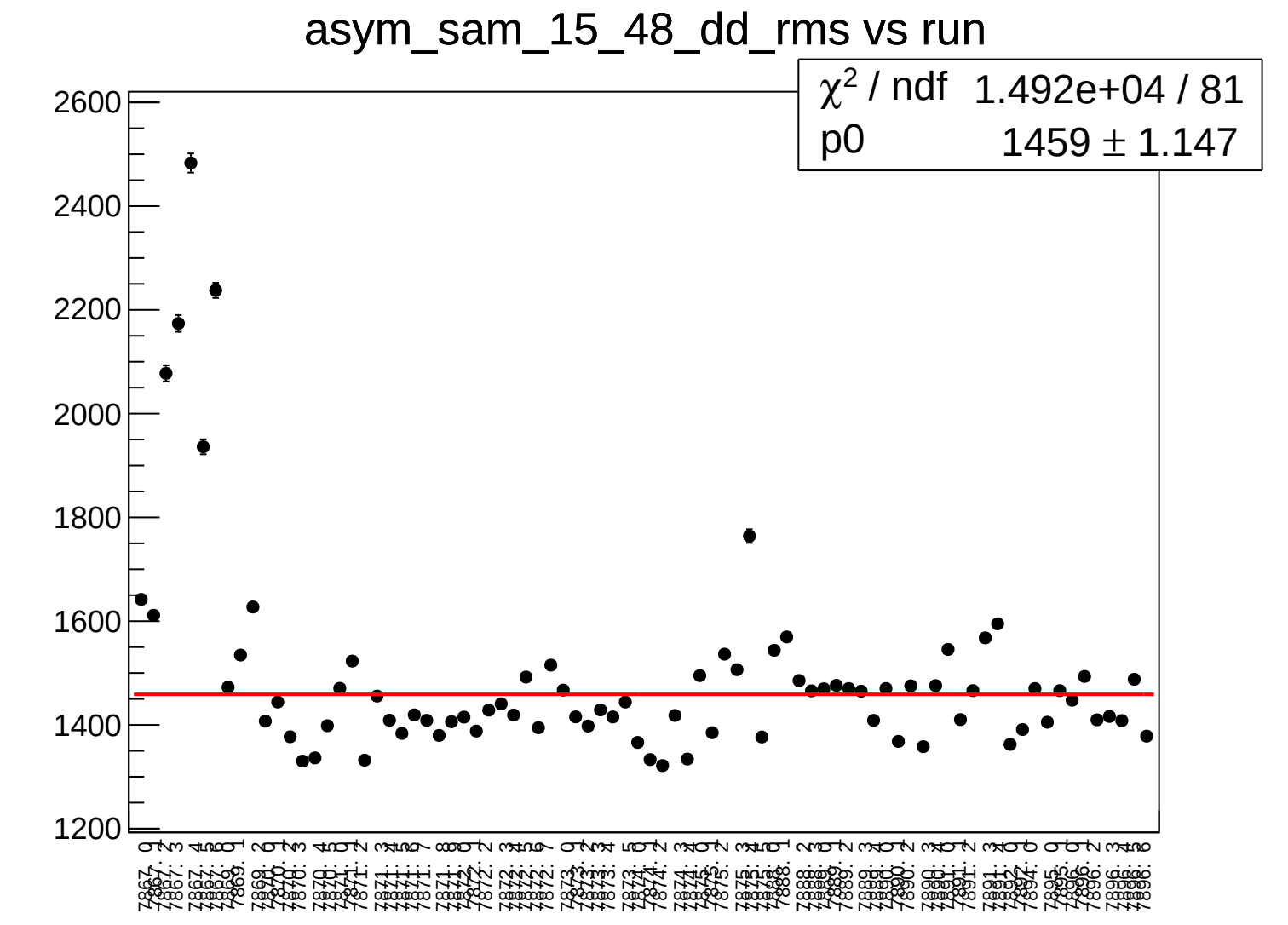

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.858e+04 / 81
p0 96.71 ± 0.0771
260
240
220
200
180
160
140
120
100
80

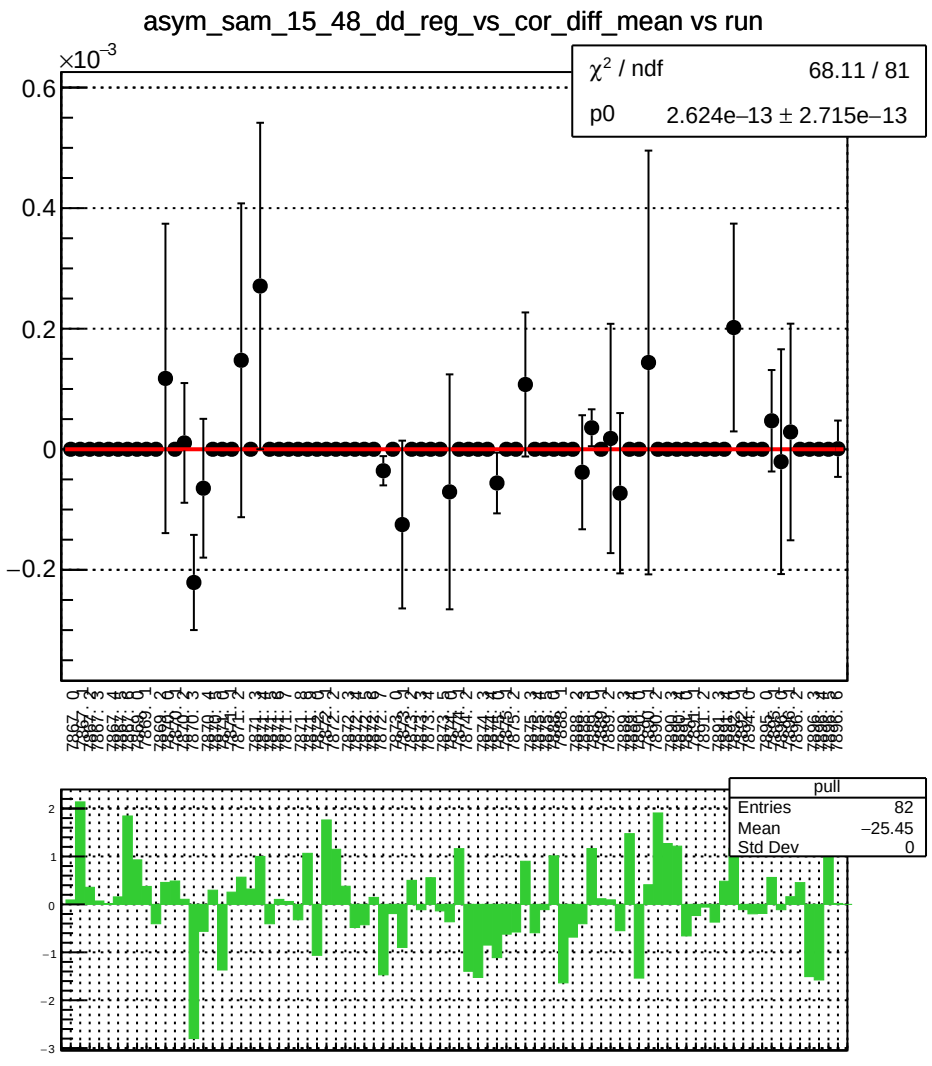

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.59 / 81
p0 340.1 ± 1626
pull
Entries 82
Mean −78.64
Std Dev 0
pull1D
Entries 82
Mean 0.007282
Std Dev 0.9278

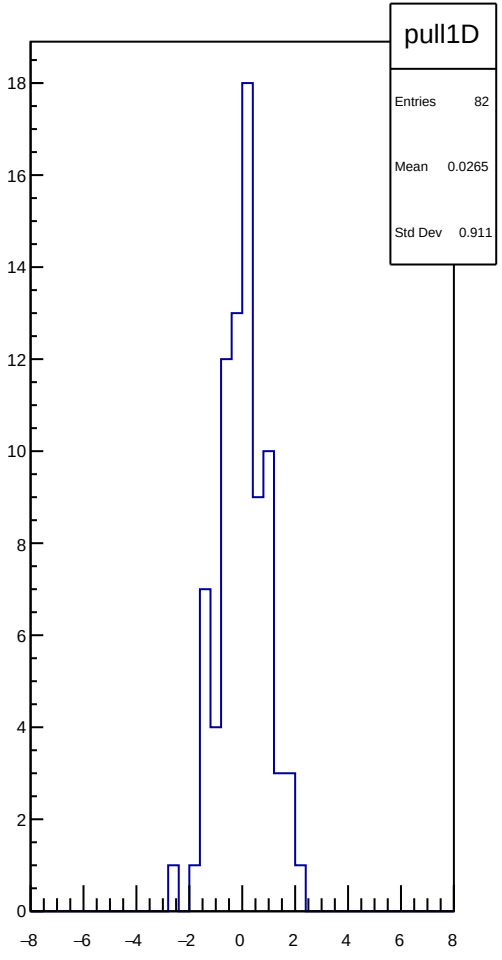

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.439e+04 / 81
p0 1463 ± 1.15
2600
2400
2200
2000
1800
1600
1400

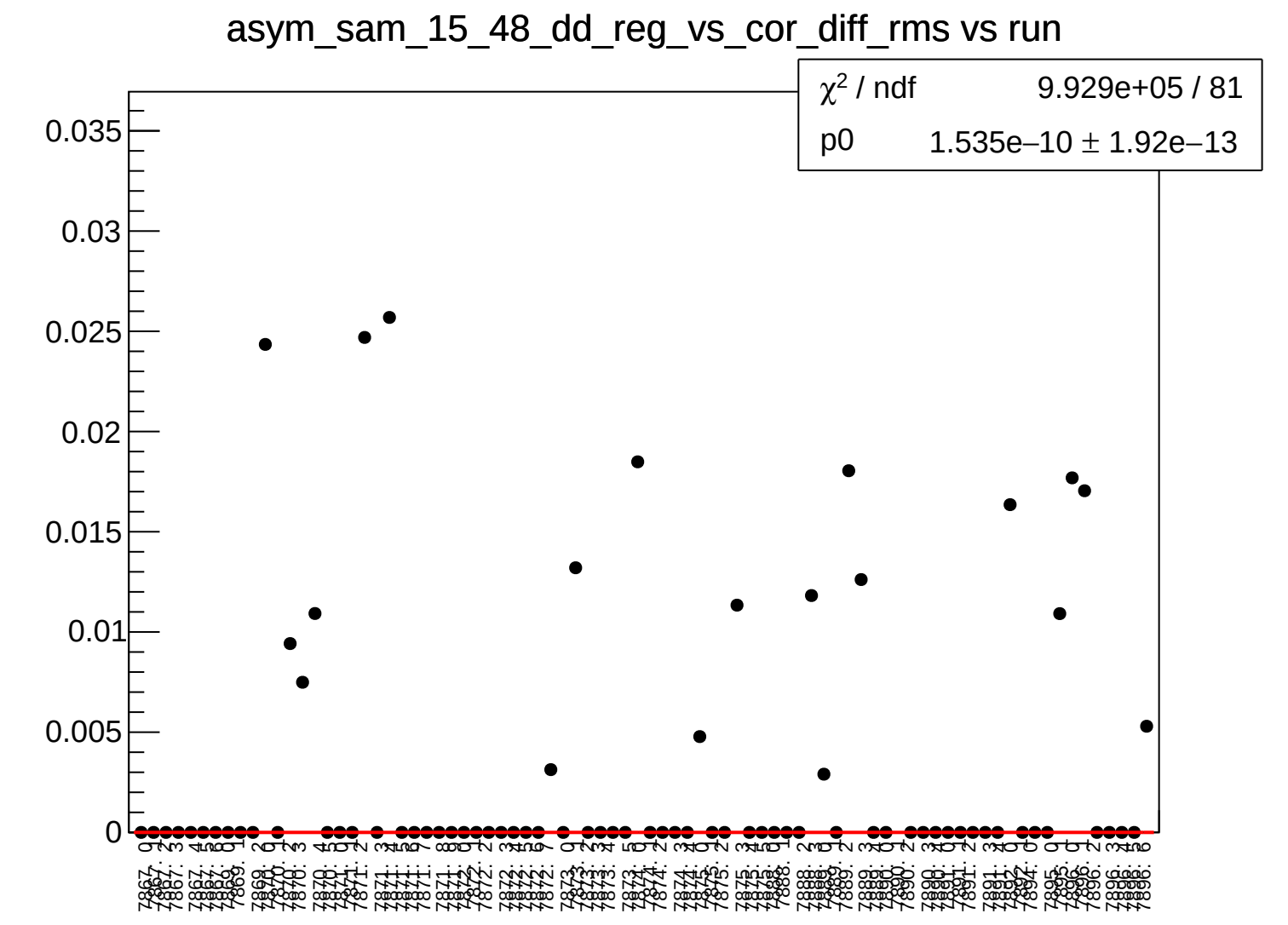

asym_sam_15_48_dd_mean vs run
χ² / ndf 72.29 / 81
p0 −649.1± 1622
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −86.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

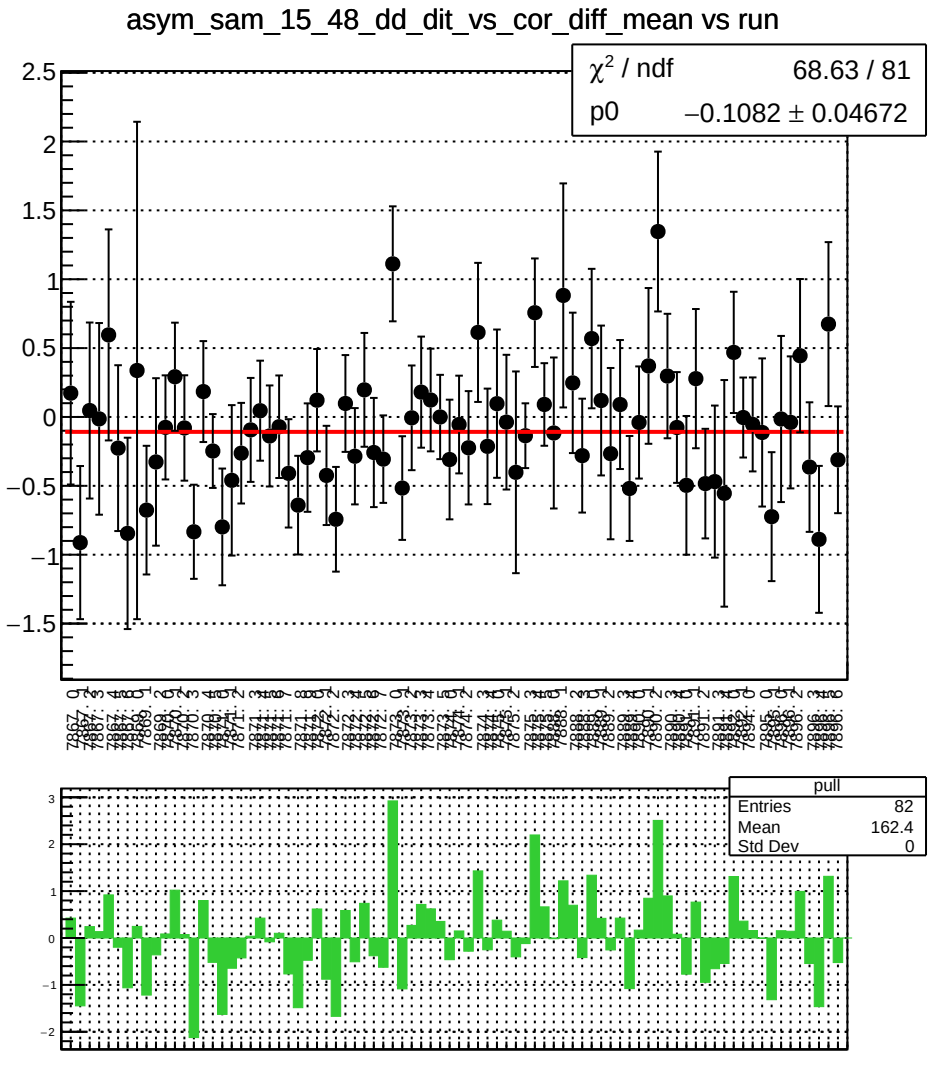

pull1D
Entries 82
Mean −0.007137
Std Dev 0.9389
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

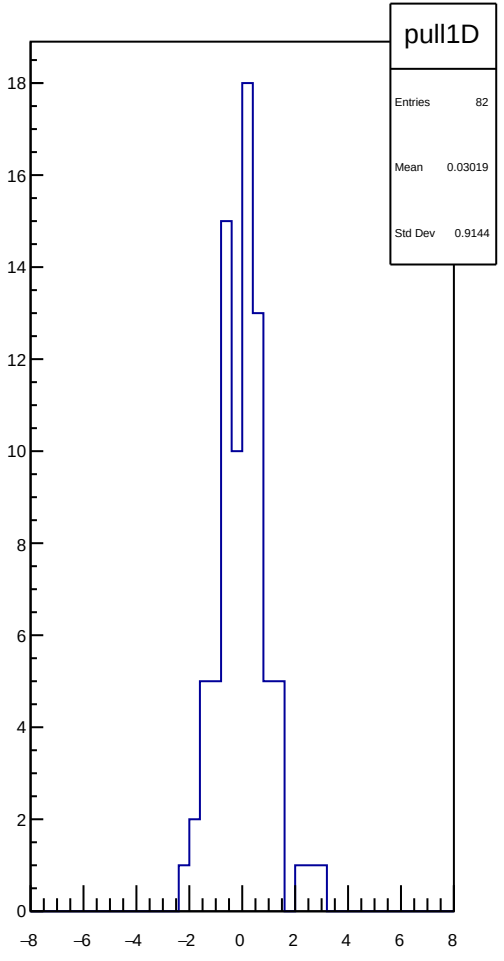

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.492e+04 / 81
p0 1459 ± 1.147
2600
2400
2200
2000
1800
1600
1400
1200

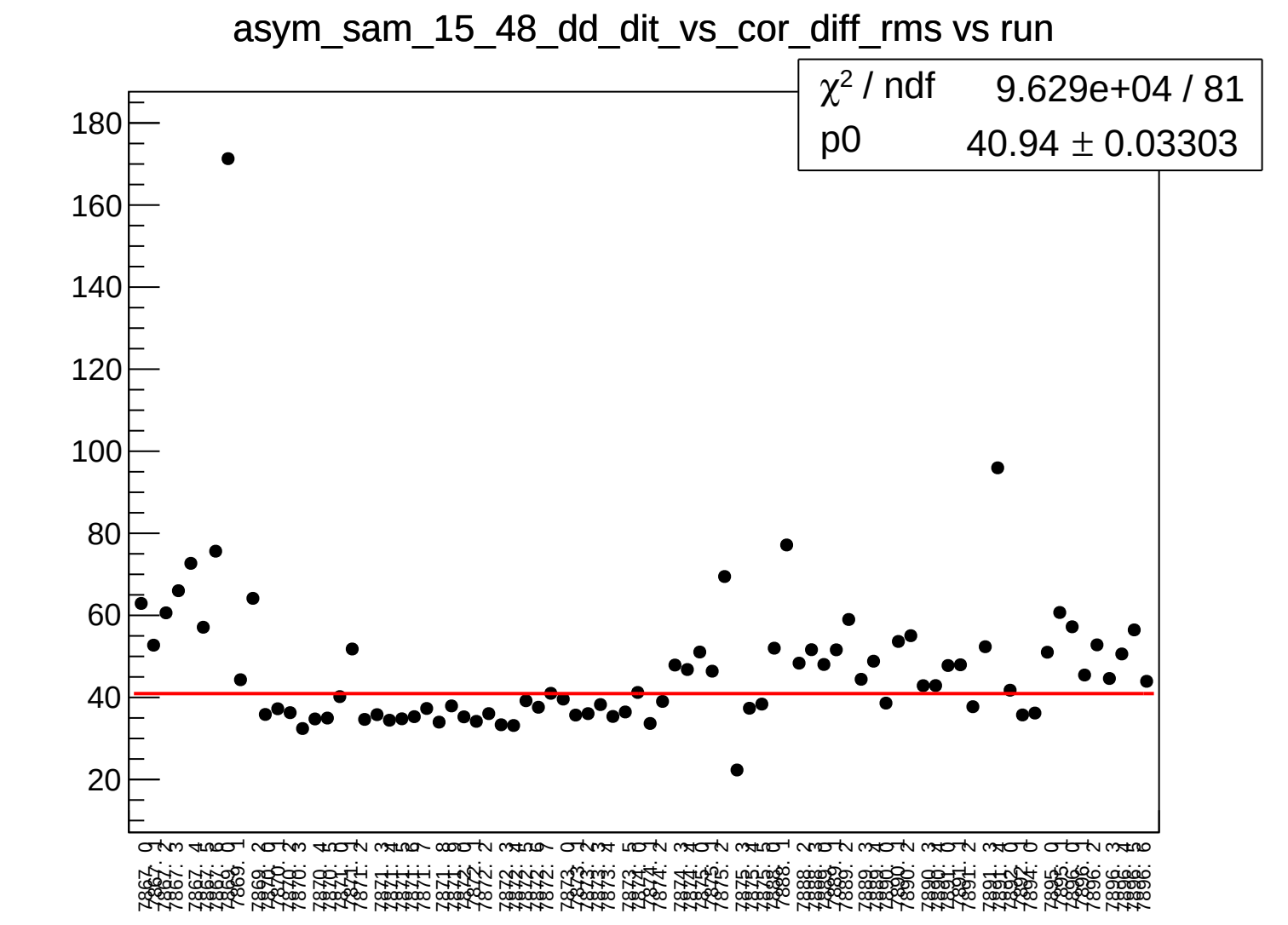

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 68.11 / 81
p0 2.624e−13 ± 2.715e−13
pull
Entries 82
Mean −25.45
Std Dev 0

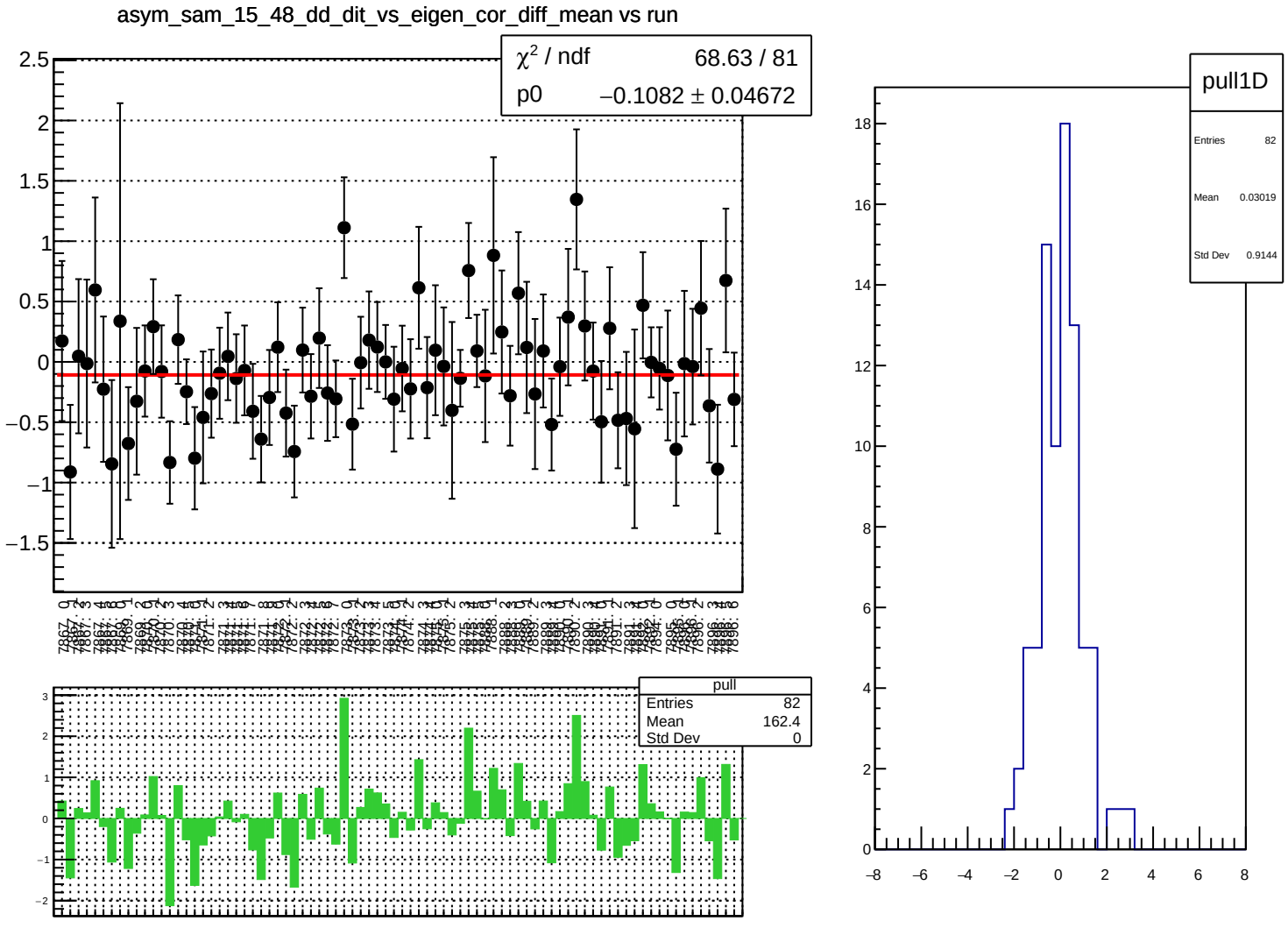

pull1D
Entries 82
Mean 0.0265
Std Dev 0.911

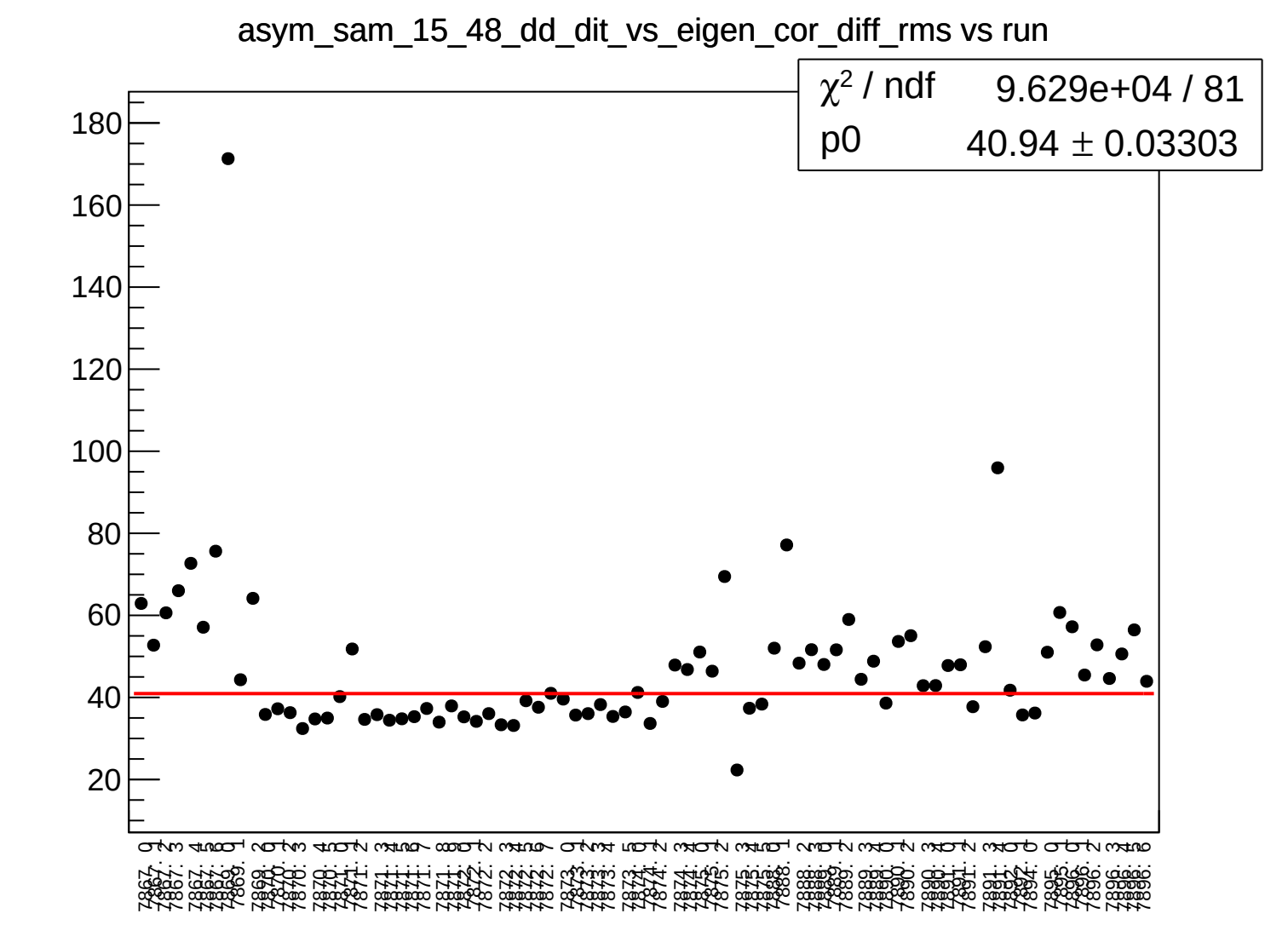

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.929e+05 / 81
p0 1.535e−10 ± 1.92e−13
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

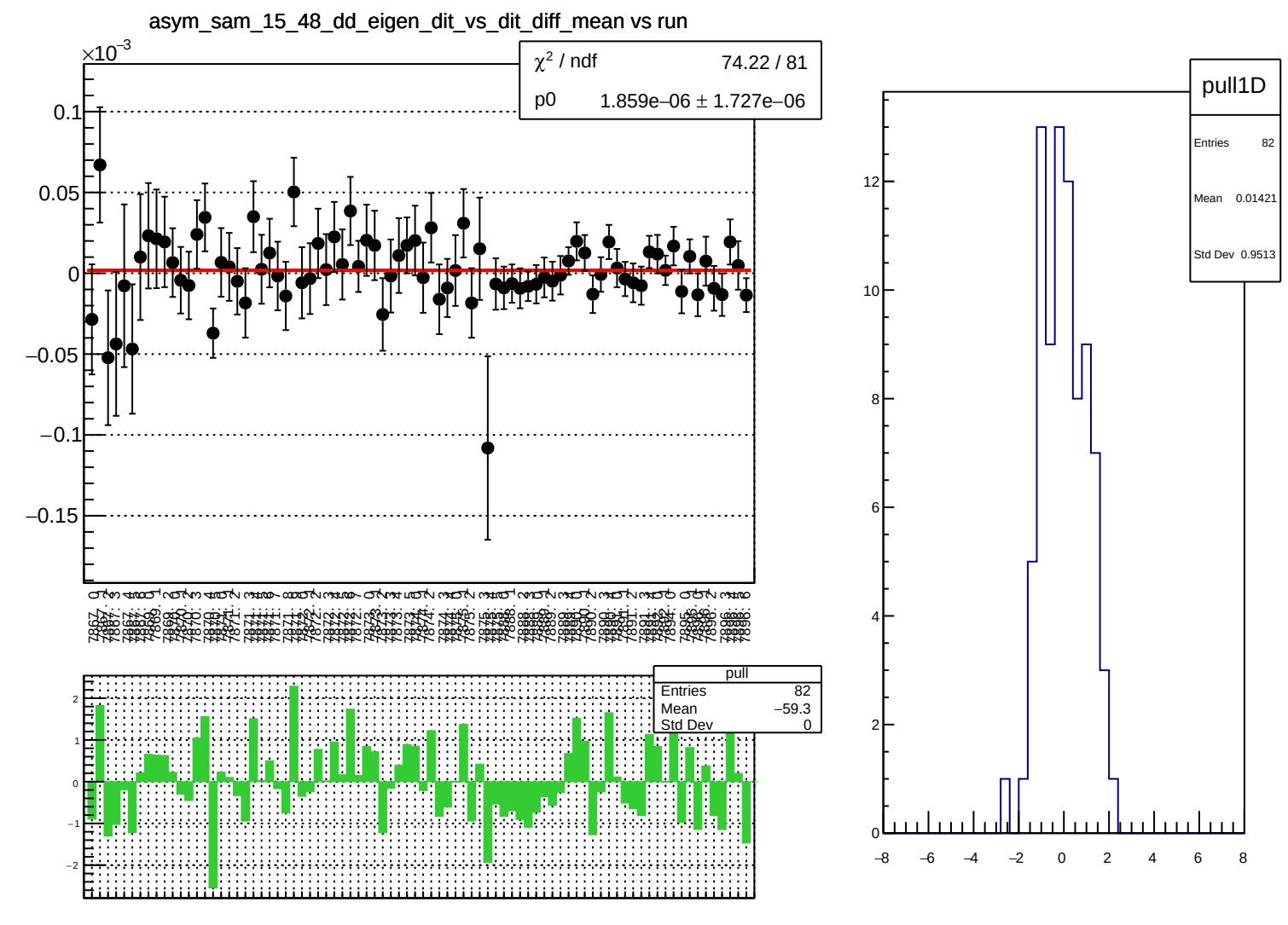

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.63 / 81
p0 −0.1082 ± 0.04672
pull
Entries 82
Mean 162.4
Std Dev 0

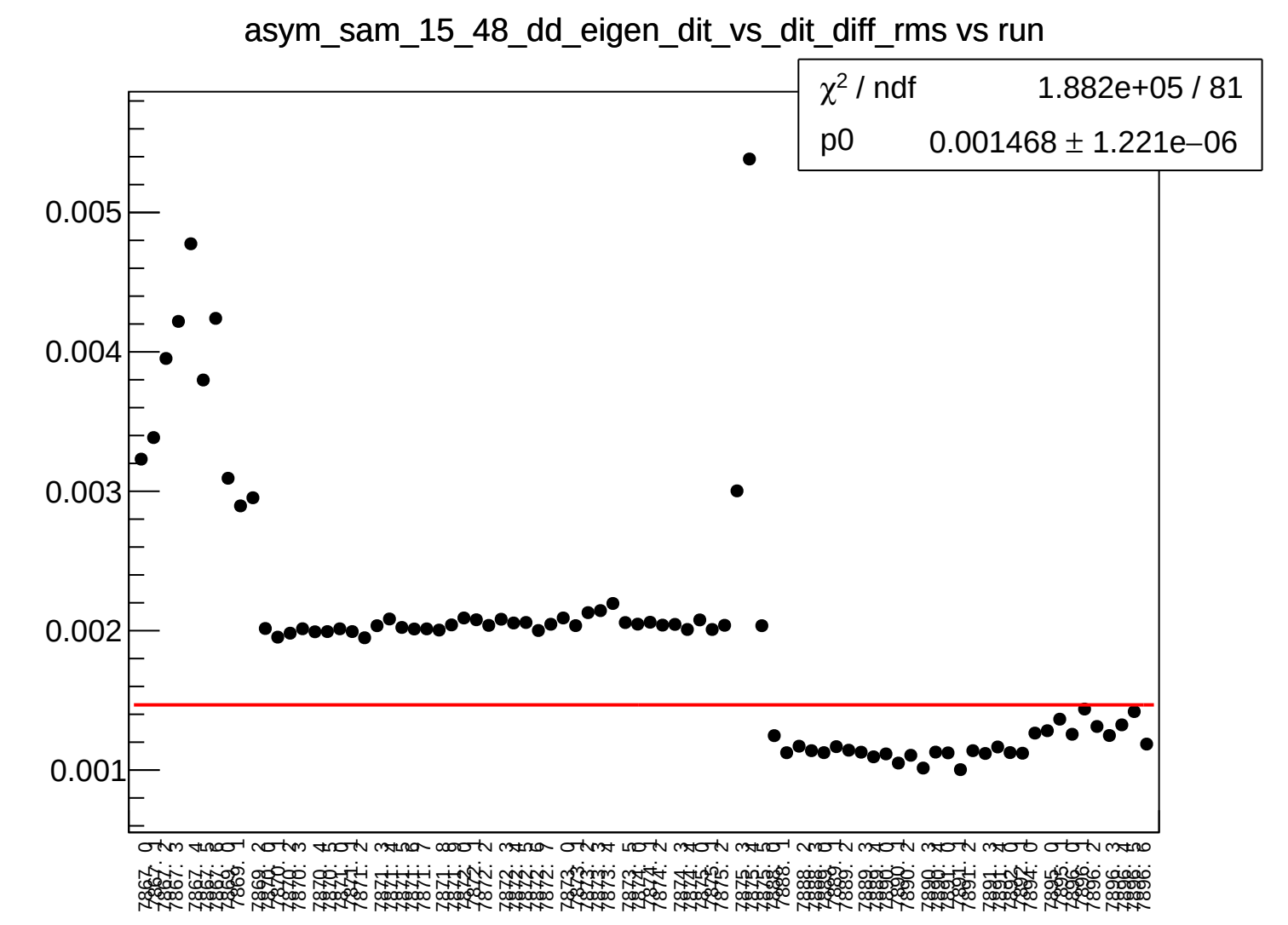

pull1D
Entries 82
Mean 0.03019
Std Dev 0.9144

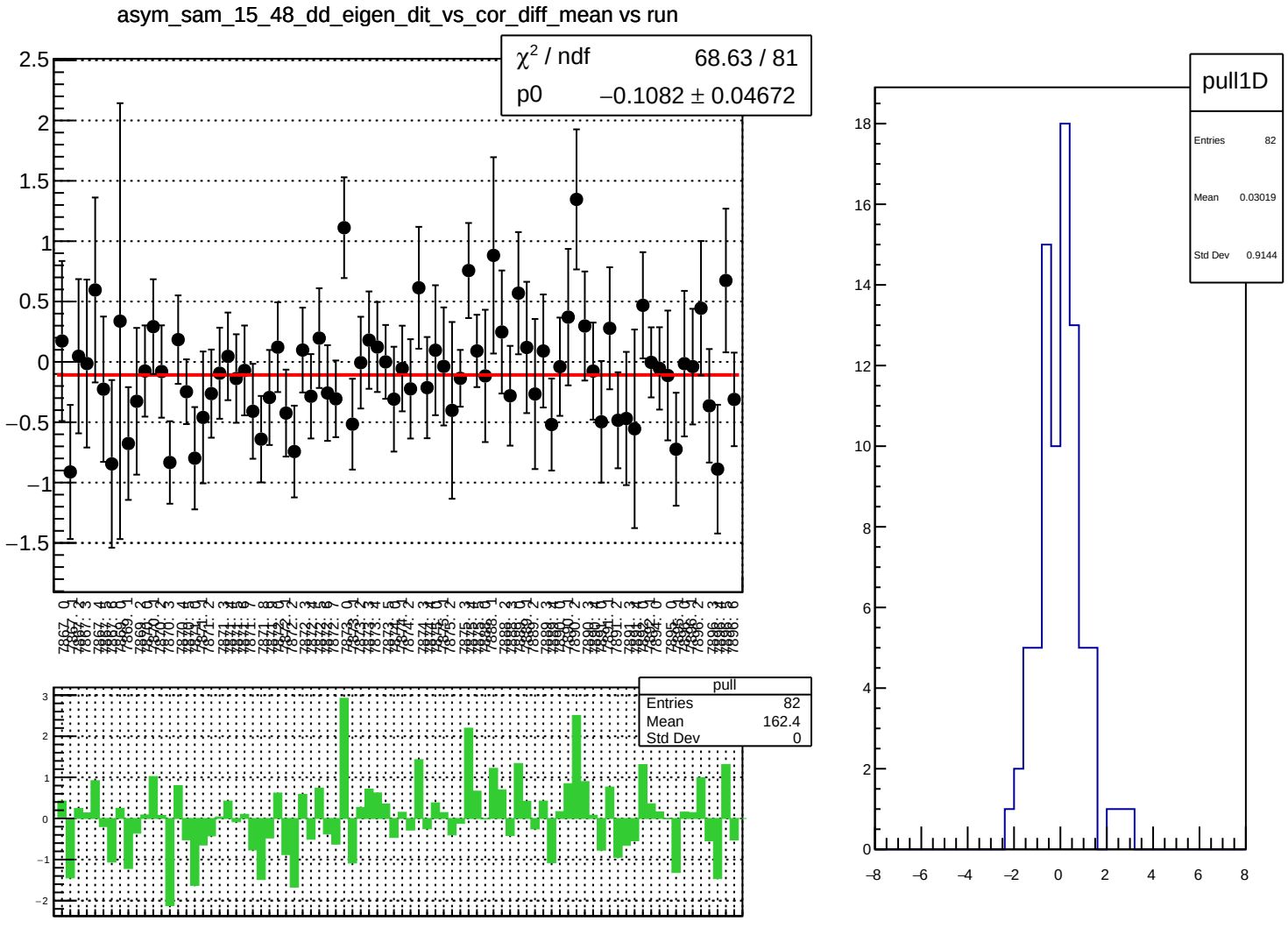

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.629e+04 / 81
p0 40.94 ± 0.03303
180
160
140
120
100
80
60
40
20

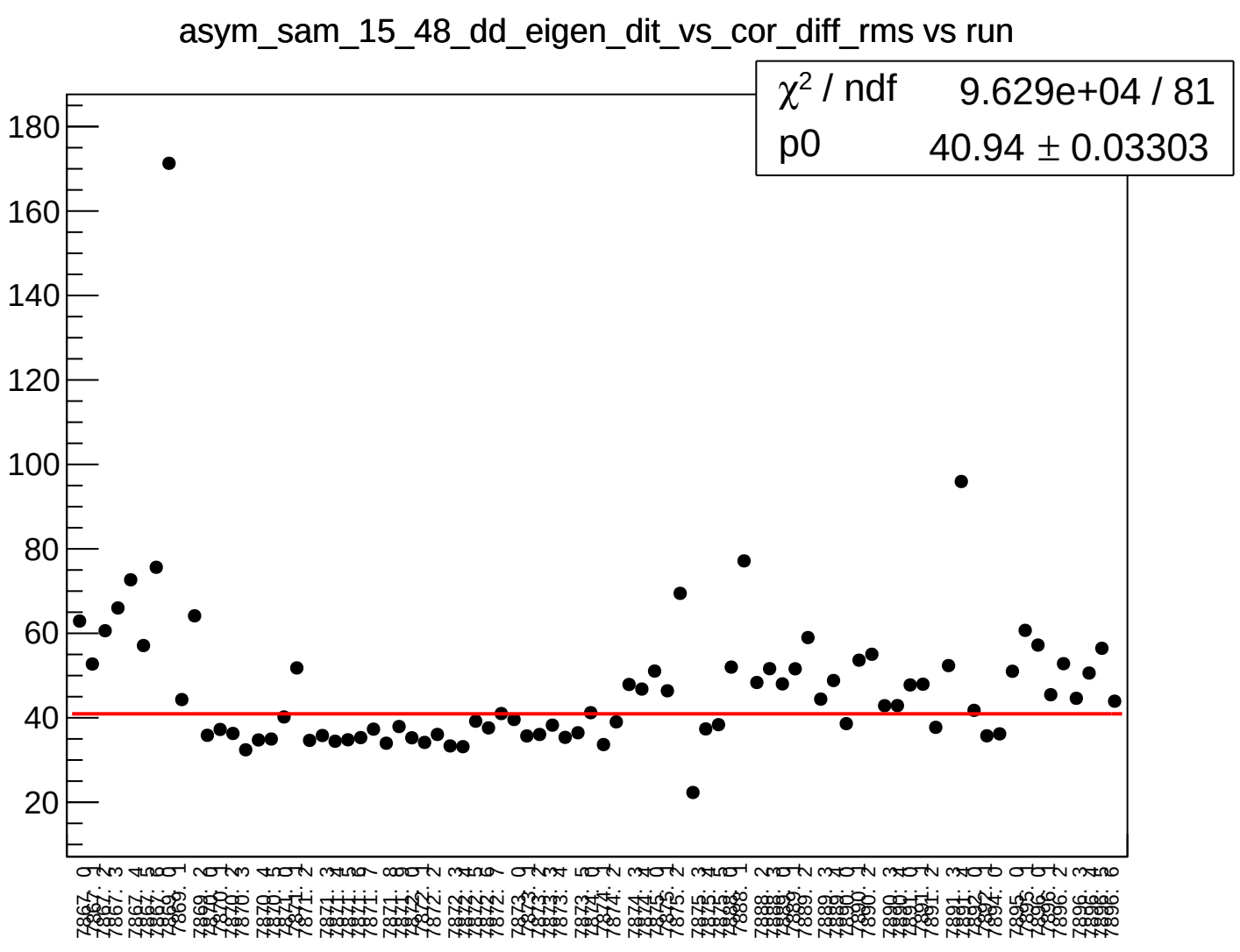

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.63 / 81
p0 −0.1082 ± 0.04672
pull
Entries 82
Mean 162.4
Std Dev 0
pull1D
Entries 82
Mean 0.03019
Std Dev 0.9144

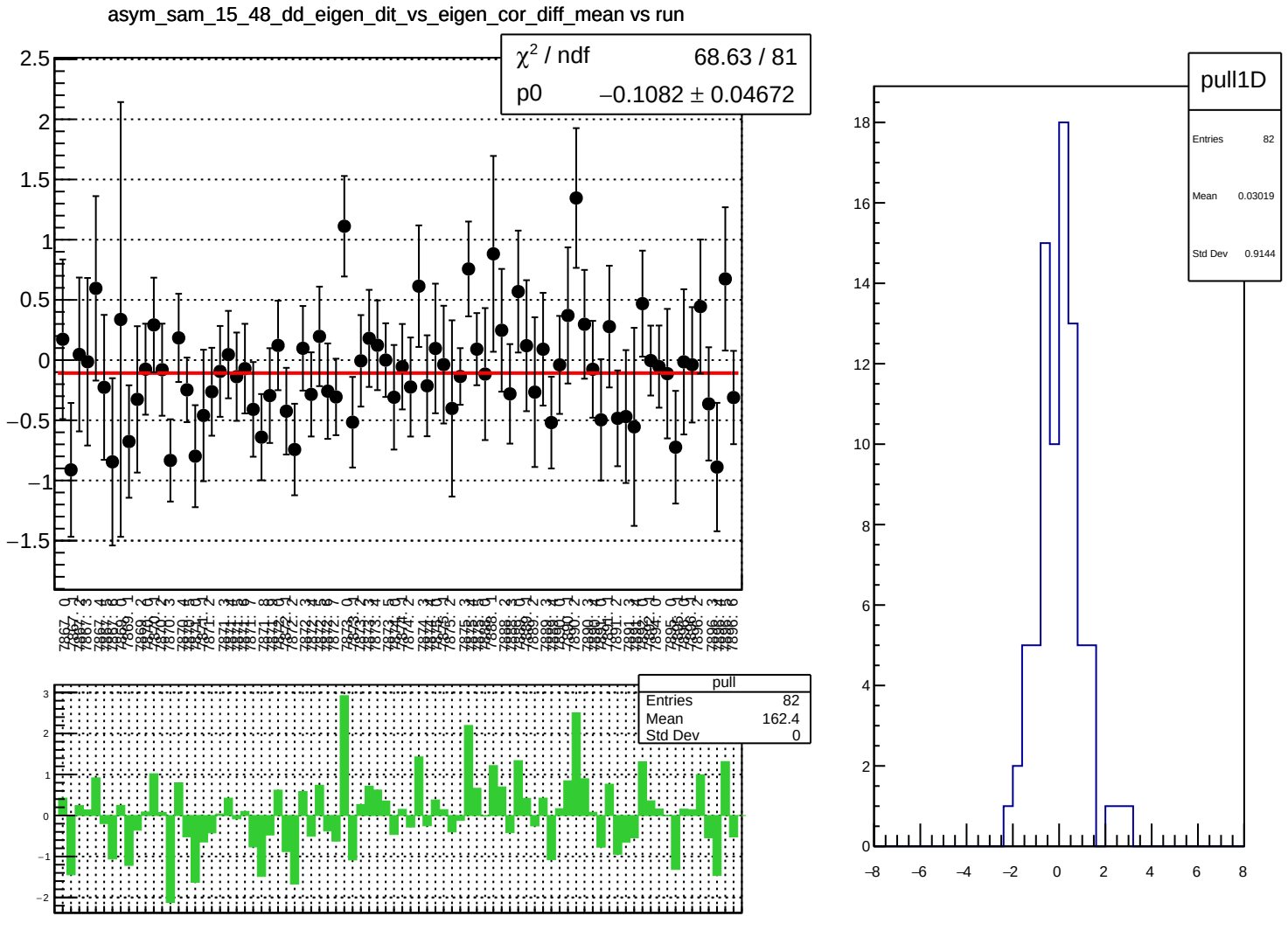

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.629e+04 / 81
p0 40.94 ± 0.03303
180
160
140
120
100
80
60
40
20

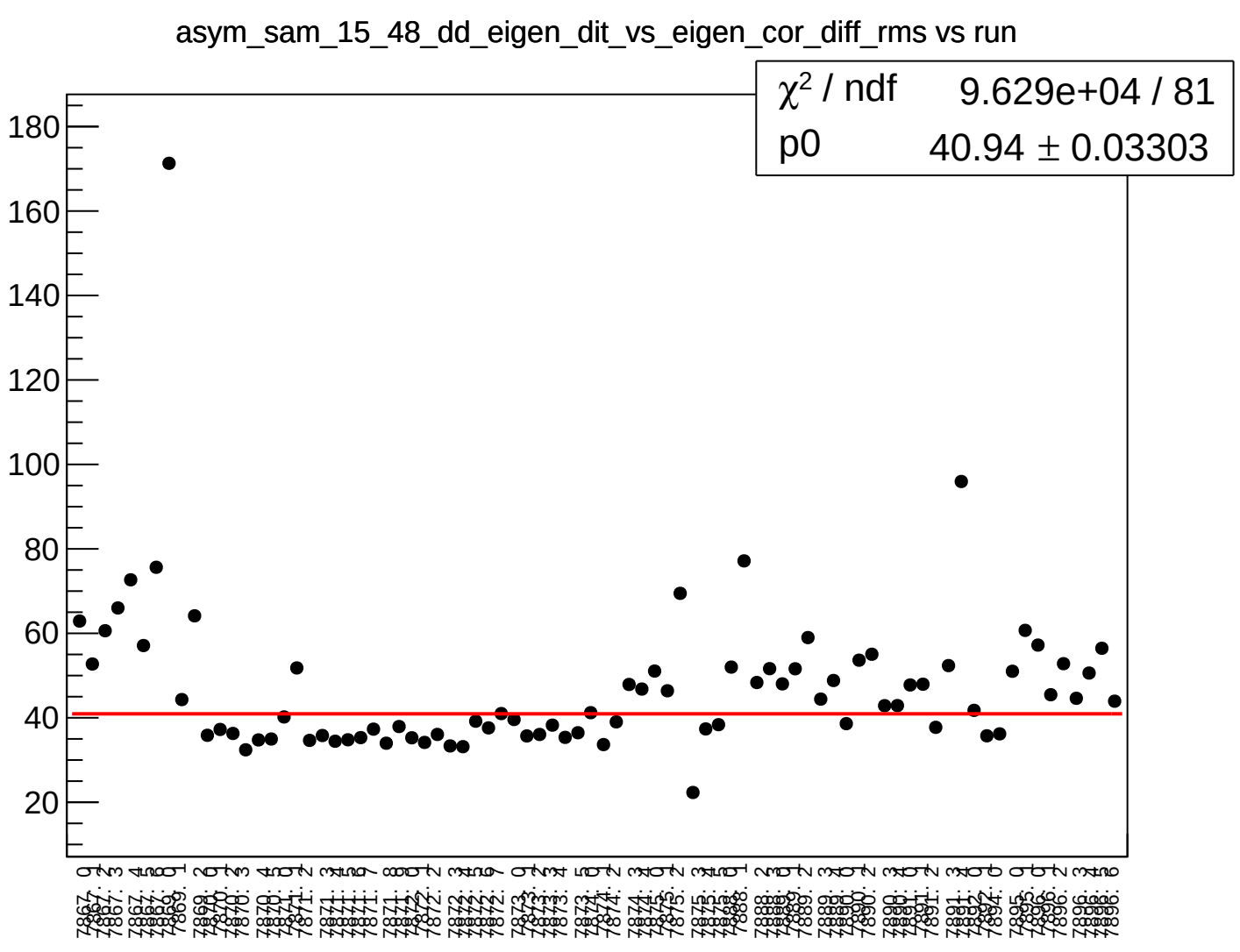

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.22 / 81
p0 1.859e−06 ± 1.727e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean −59.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01421
Std Dev 0.9513
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

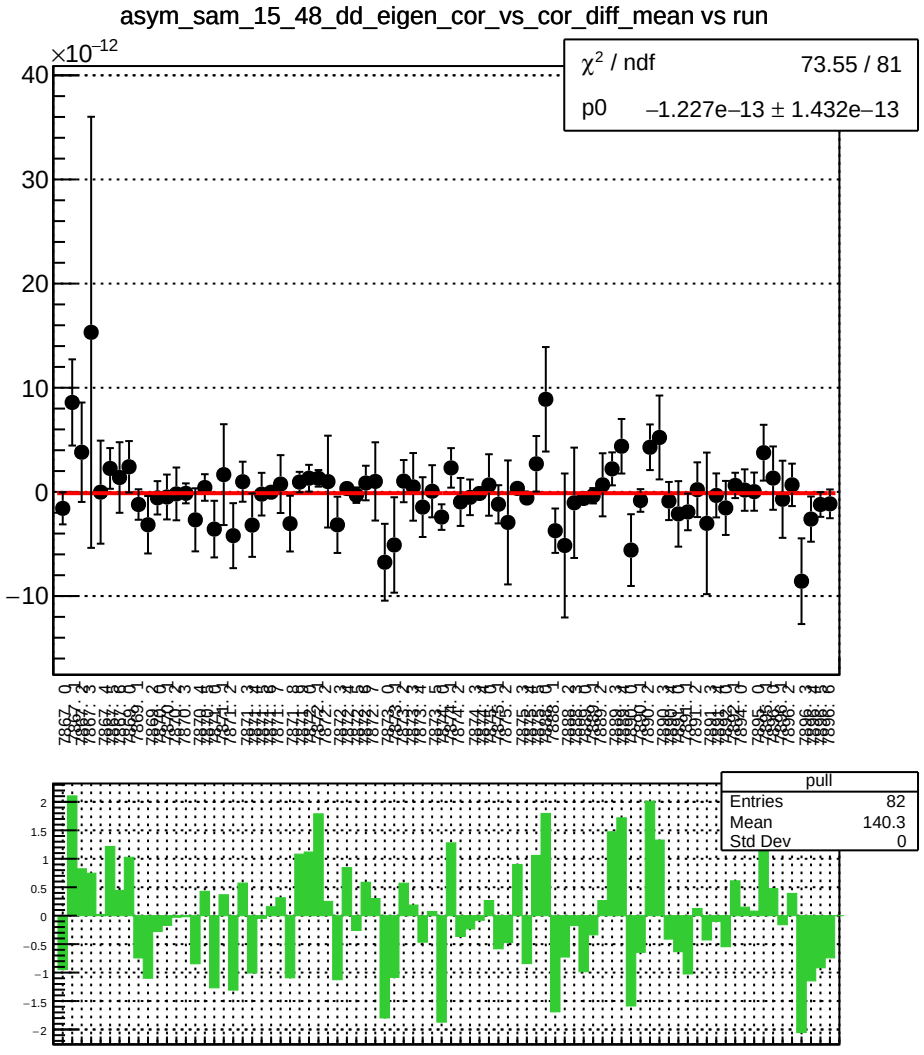

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.882e+05 / 81
p0 0.001468 ± 1.221e−06
0.005
0.004
0.003
0.002
0.001

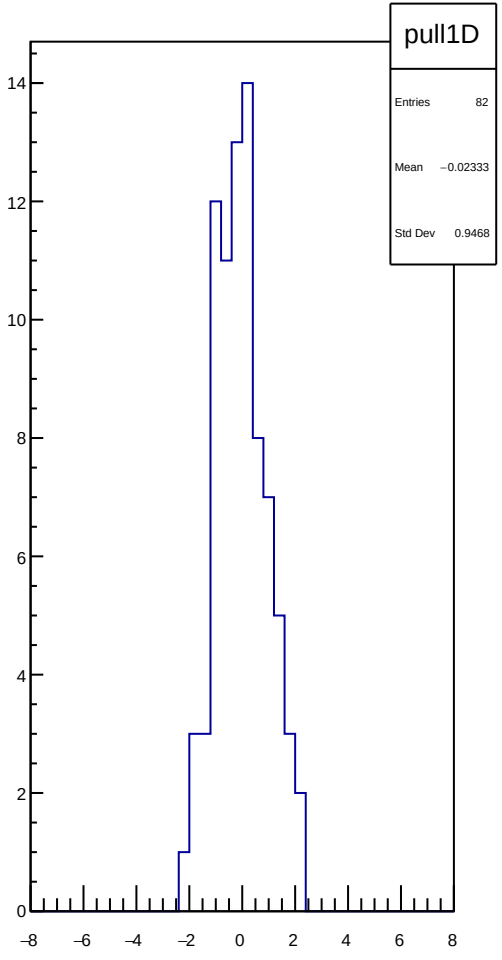

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.63 / 81
p0 −0.1082 ± 0.04672
pull
Entries 82
Mean 162.4
Std Dev 0
pull1D
Entries 82
Mean 0.03019
Std Dev 0.9144

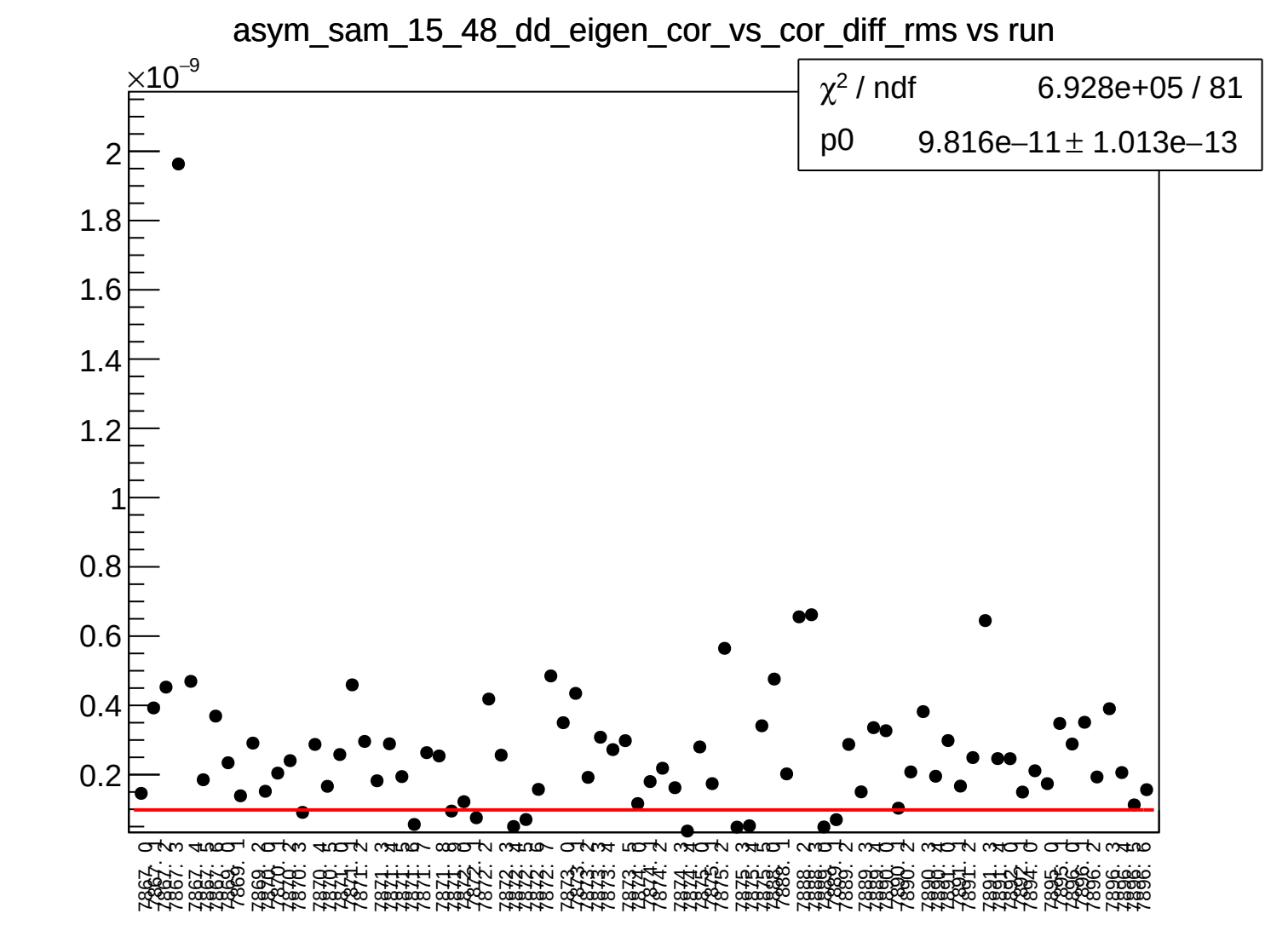

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.629e+04 / 81
p0 40.94 ± 0.03303
180
160
140
120
100
80
60
40
20

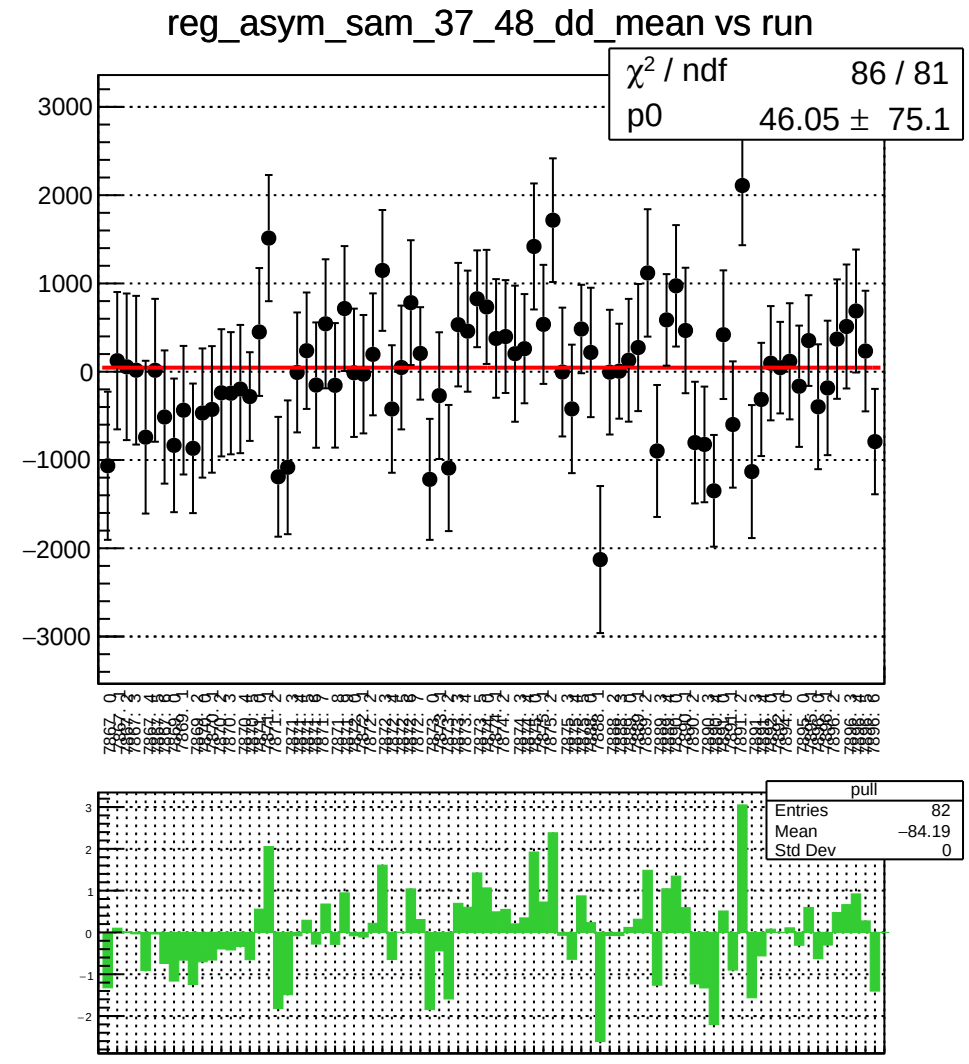

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.63 / 81
p0 −0.1082 ± 0.04672
pull
Entries 82
Mean 162.4
Std Dev 0
pull1D
Entries 82
Mean 0.03019
Std Dev 0.9144

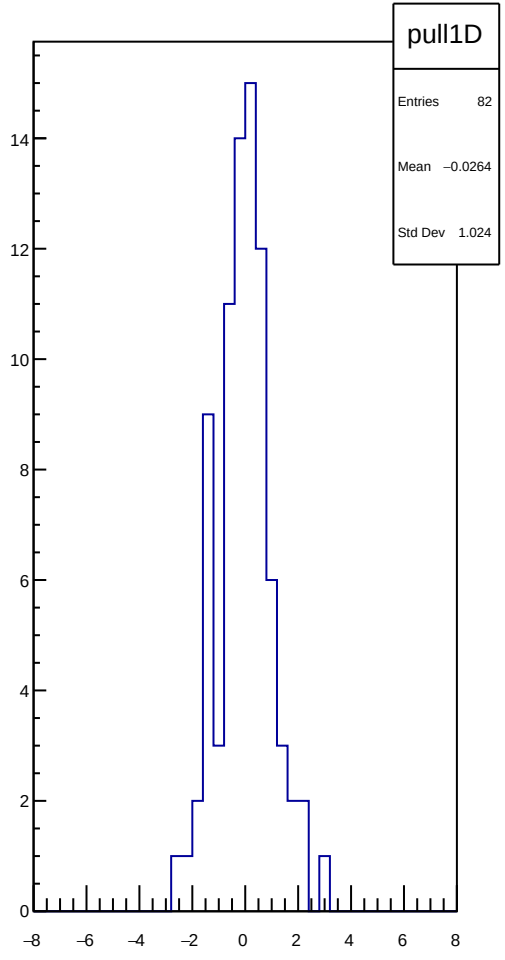

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.629e+04 / 81
p0 40.94 ± 0.03303
180
160
140
120
100
80
60
40
20

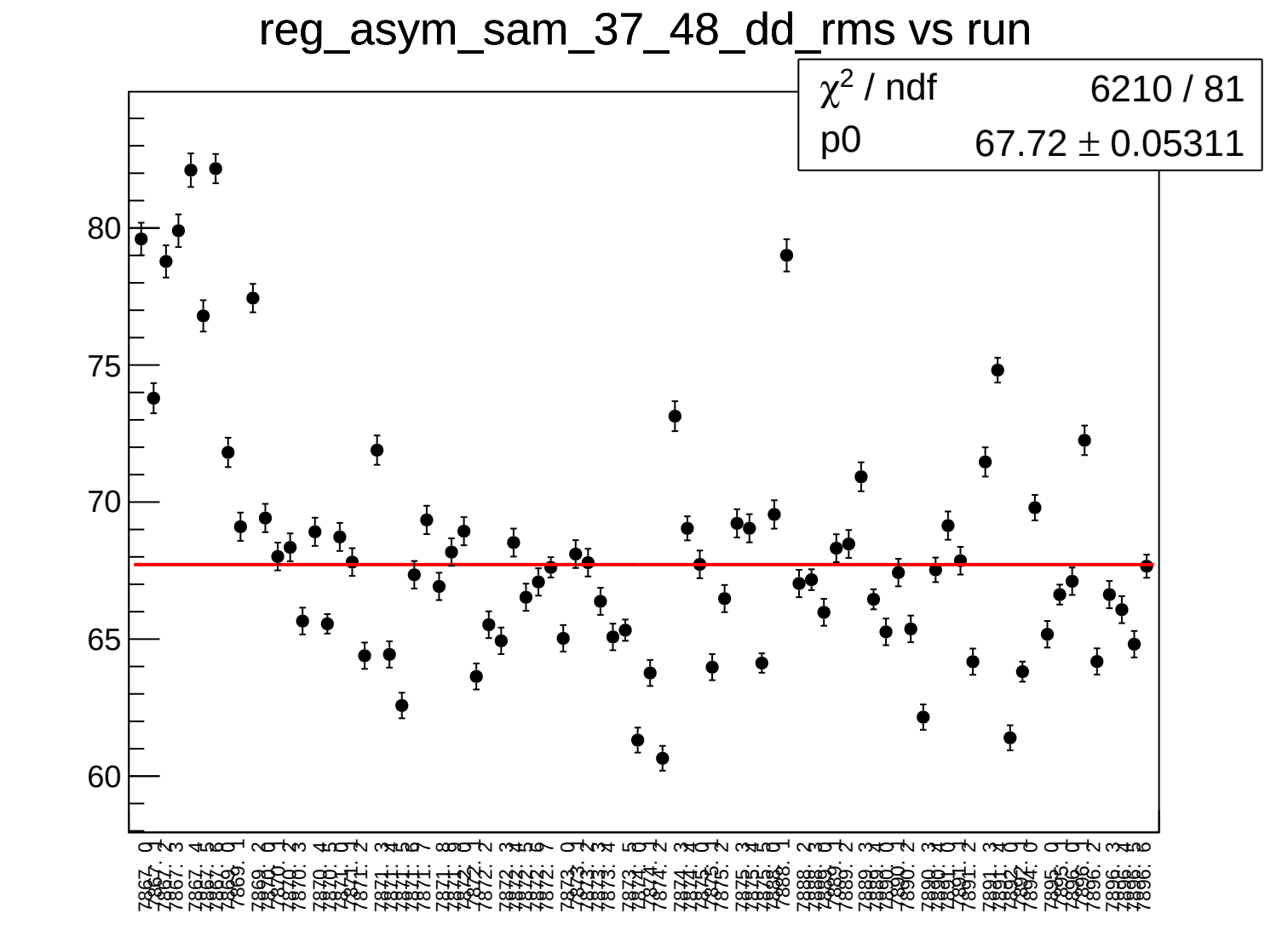

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.55 / 81
p0 −1.227e−13 ± 1.432e−13
pull
Entries 82
Mean 140.3
Std Dev 0

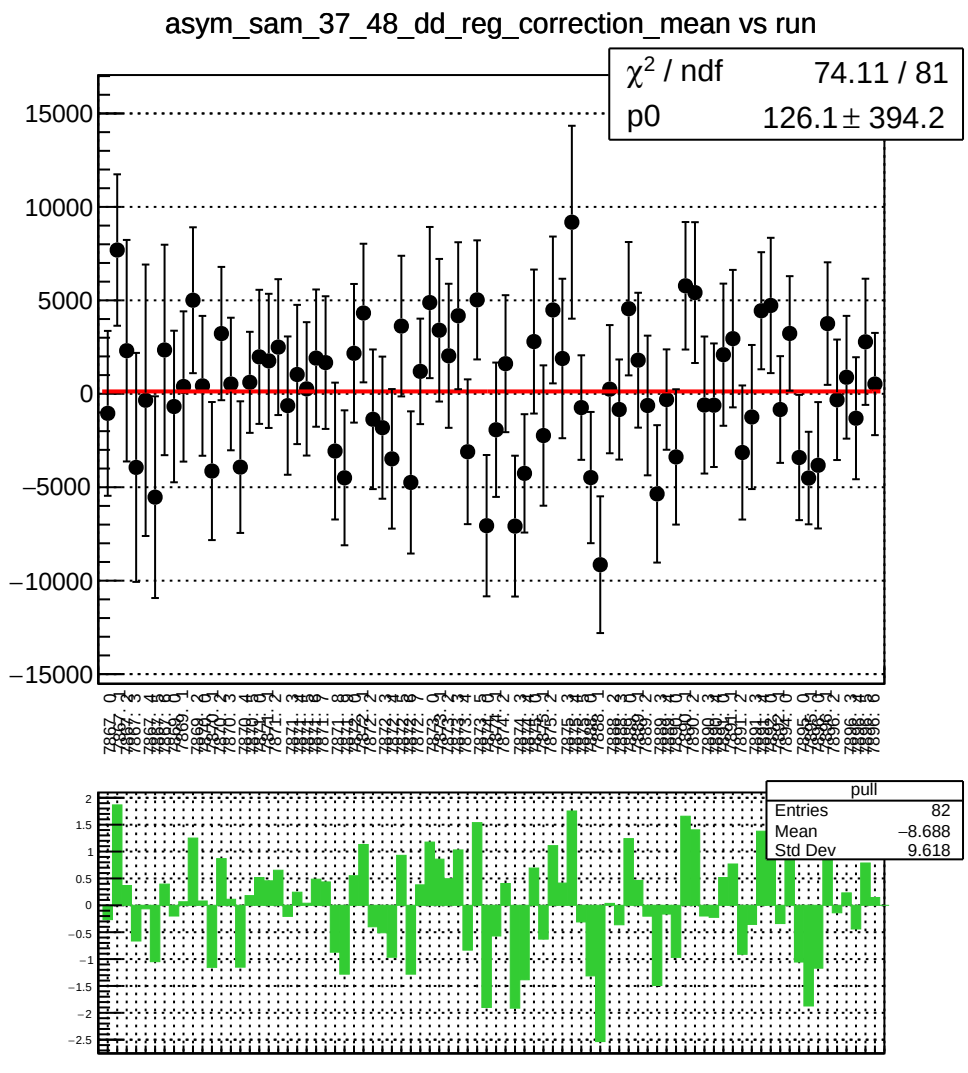

pull1D
Entries 82
Mean −0.02333
Std Dev 0.9468

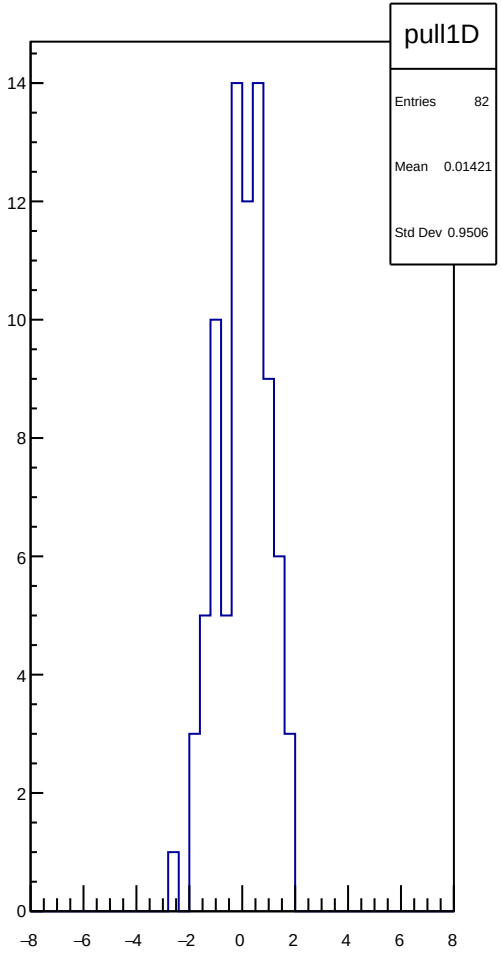

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.928e+05 / 81
p0 9.816e−11 ± 1.013e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

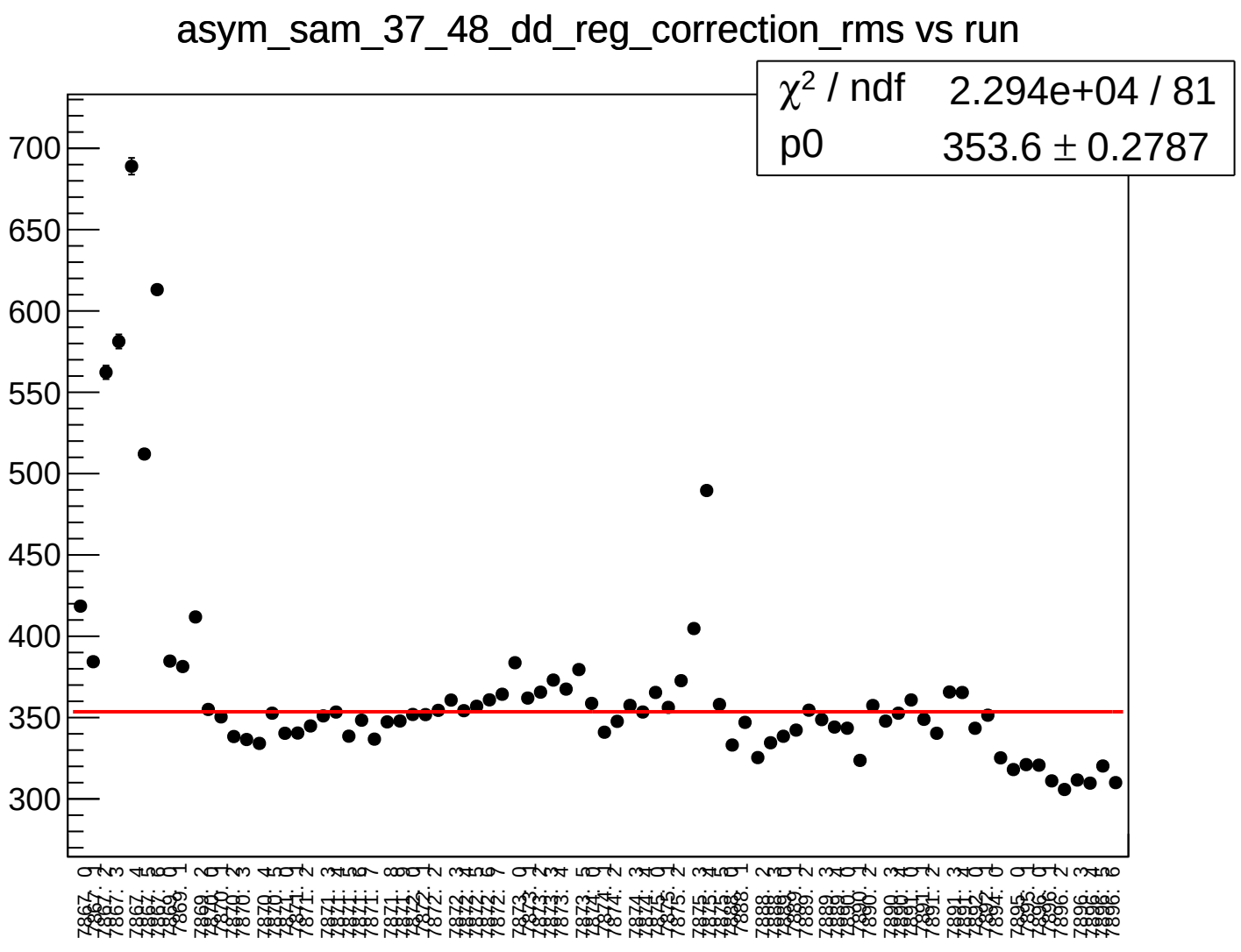

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 86 / 81
p0 46.05 ± 75.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −84.19
Std Dev 0
3
2
1
0
−1
−2

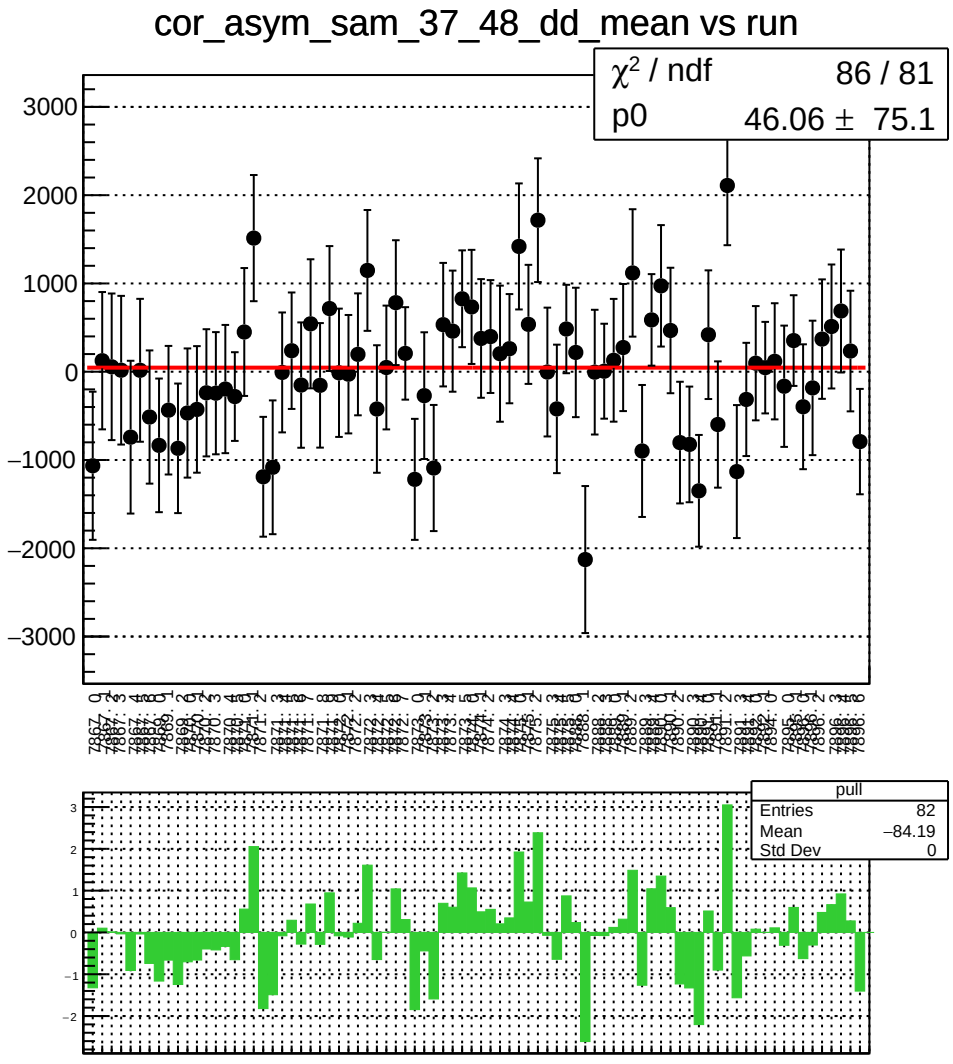

pull1D
Entries 82
Mean −0.0264
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

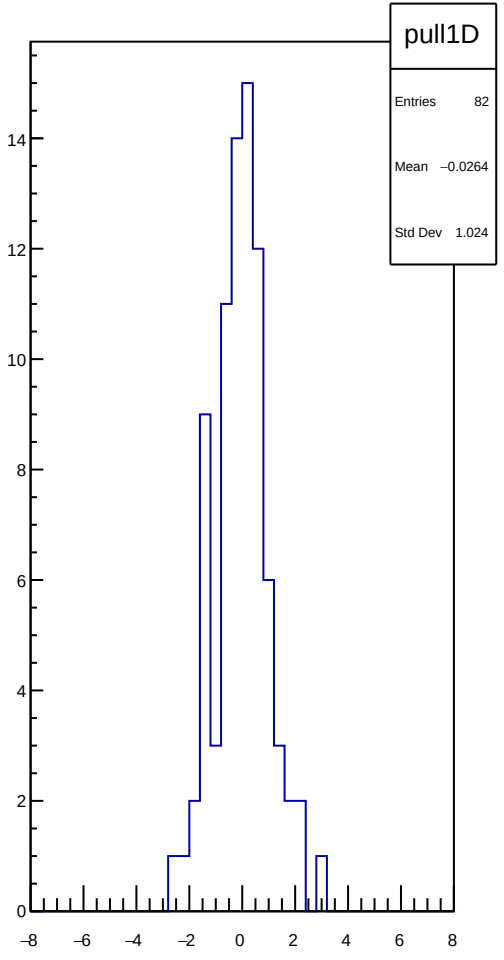

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6210 / 81
p0 67.72 ± 0.05311
80
75
70
65
60

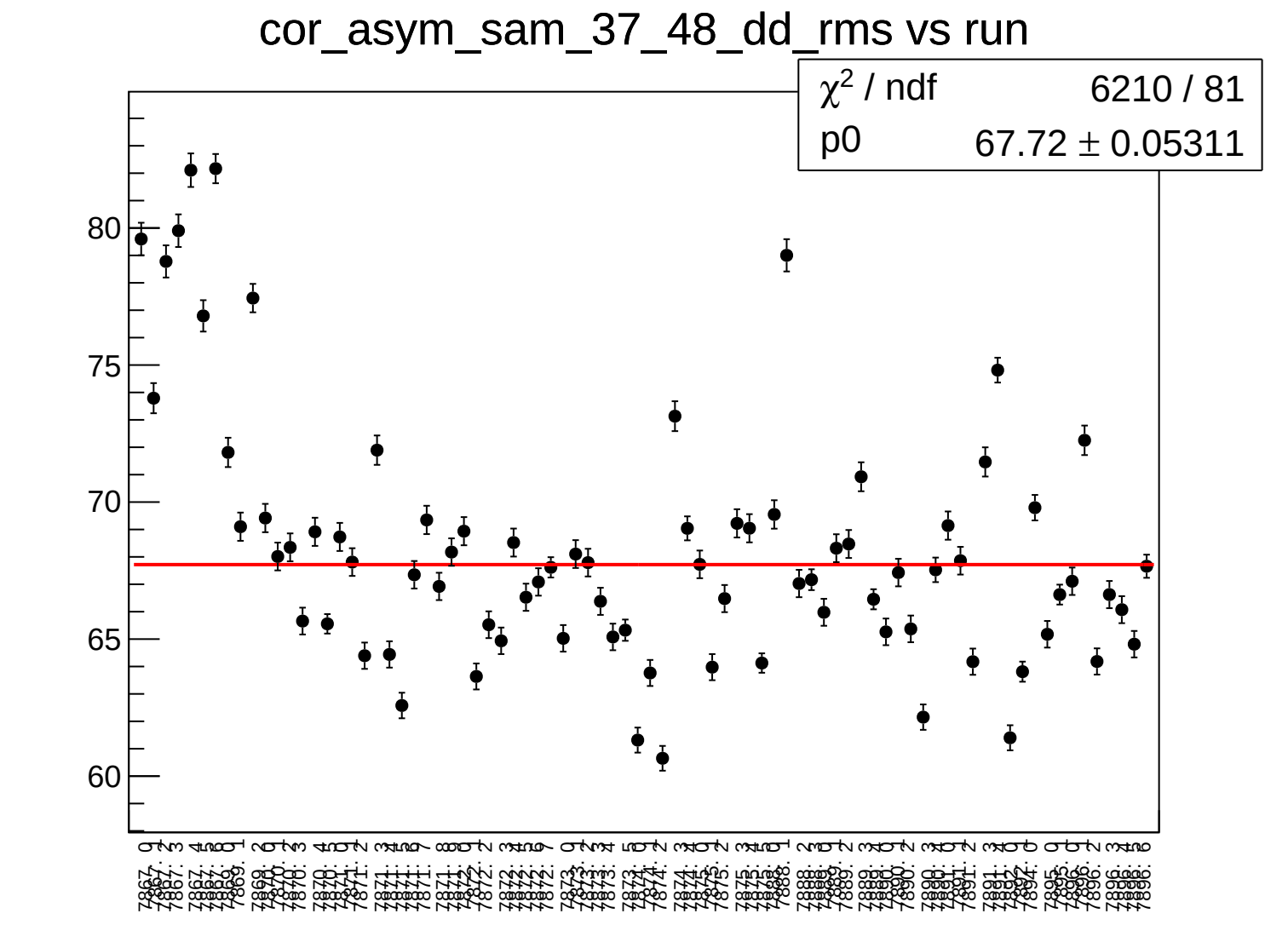

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 74.11 / 81
p0 126.1 ± 394.2
pull
Entries 82
Mean −8.688
Std Dev 9.618

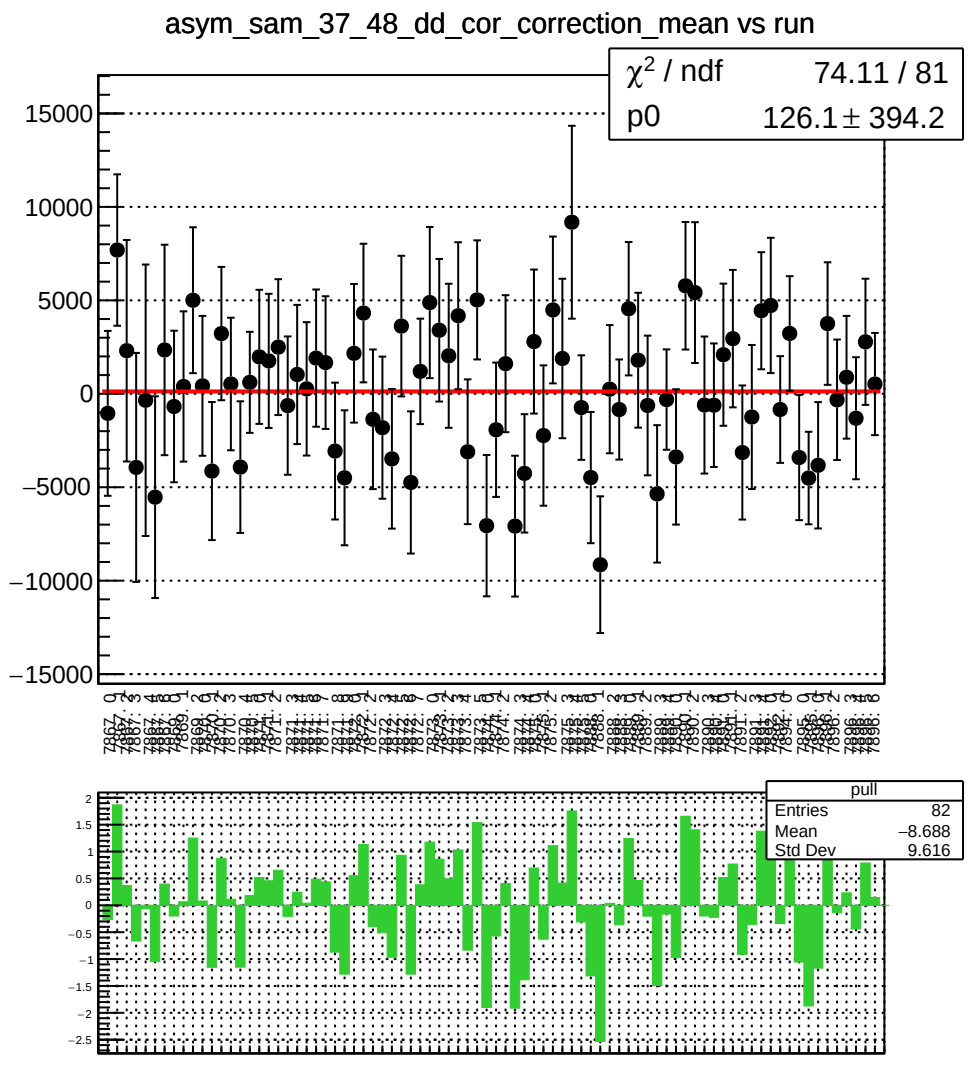

pull1D
Entries 82
Mean 0.01421
Std Dev 0.9506

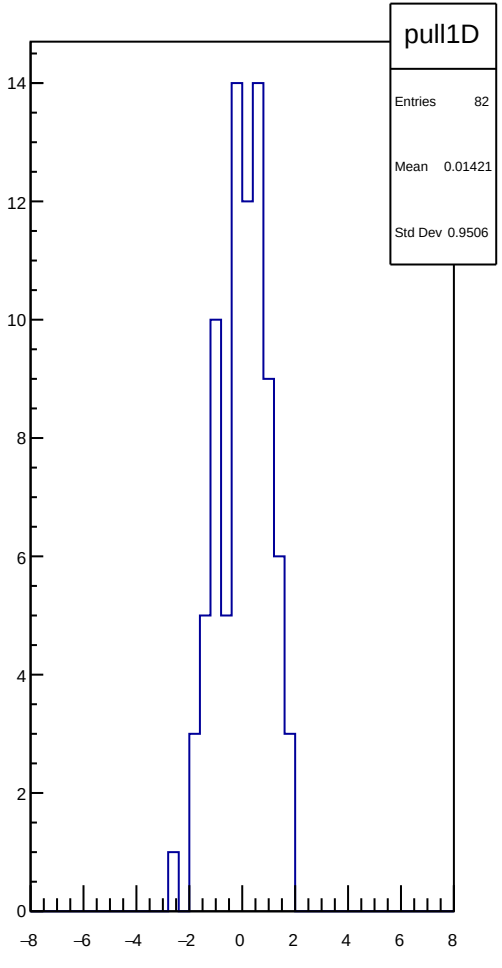

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2.294e+04 / 81
p0 353.6 ± 0.2787
700
650
600
550
500
450
400
350
300

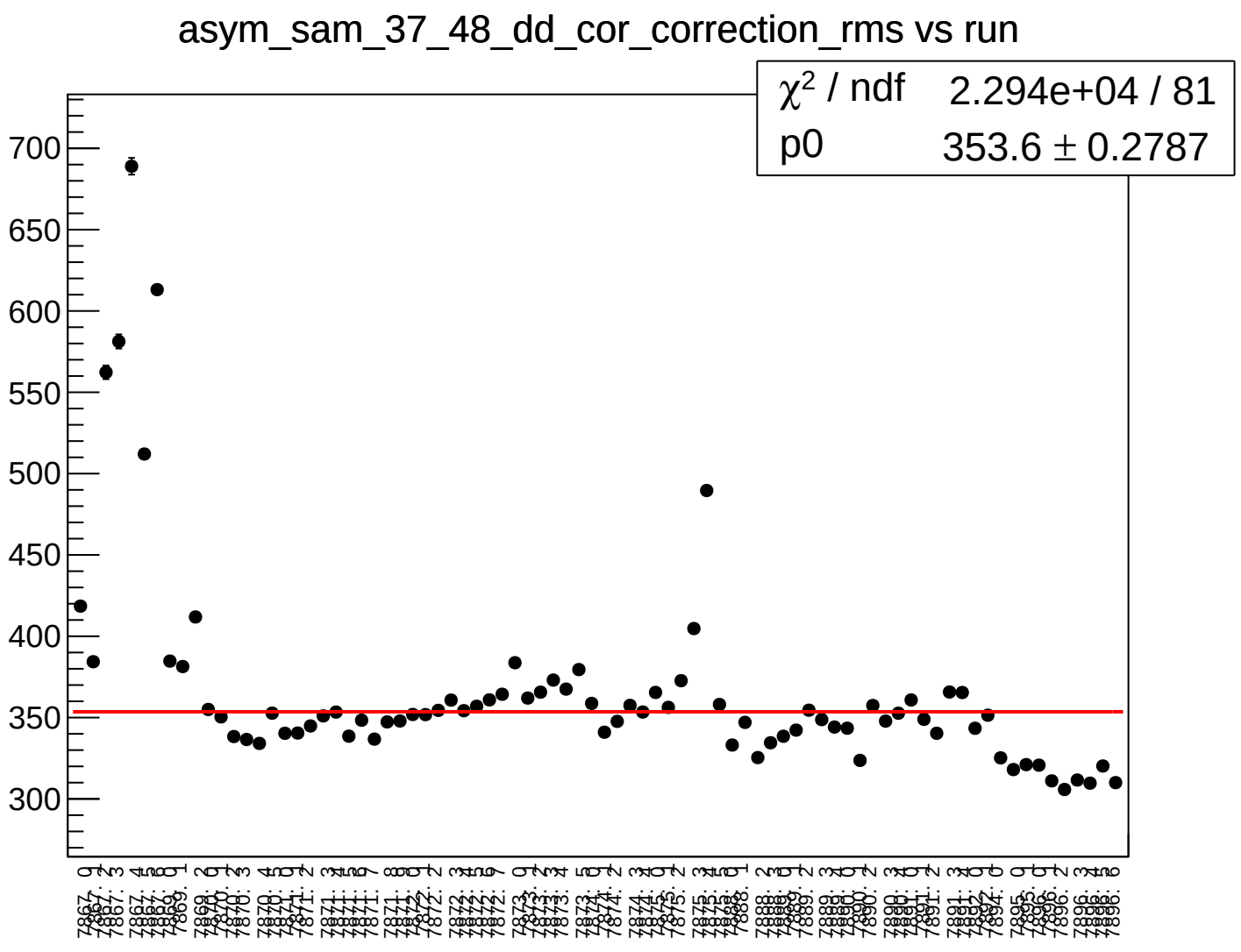

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 86 / 81
p0 46.06 ± 75.1
pull
Entries 82
Mean −84.19
Std Dev 0

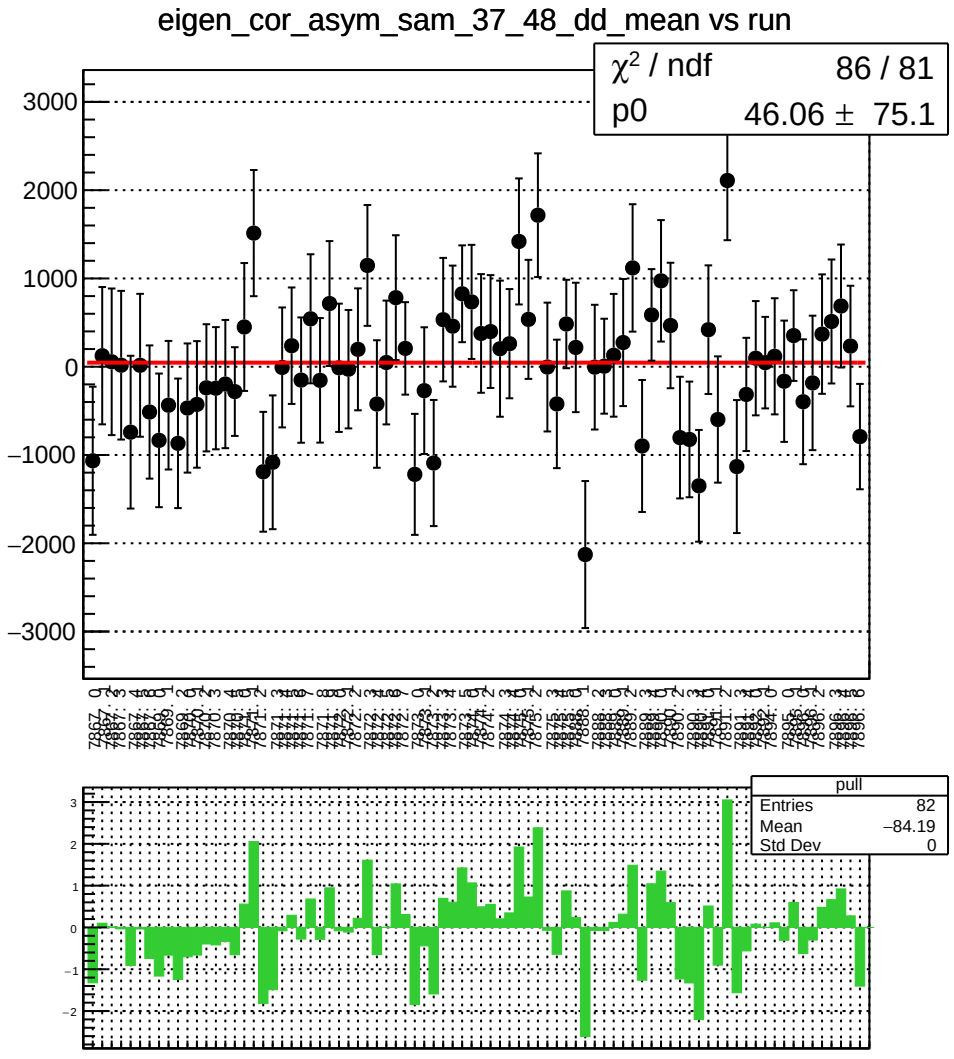

pull1D
Entries 82
Mean −0.0264
Std Dev 1.024

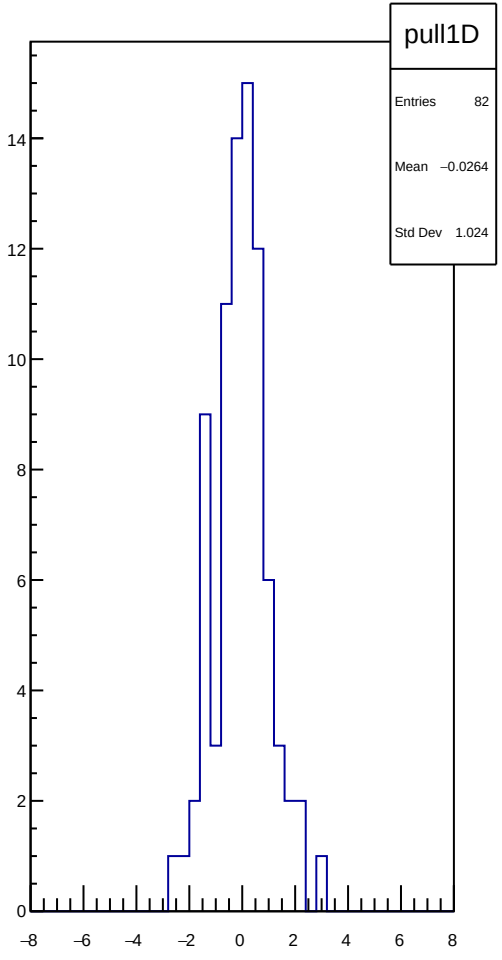

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 6210 / 81
p0 67.72 ± 0.05311
80
75
70
65
60

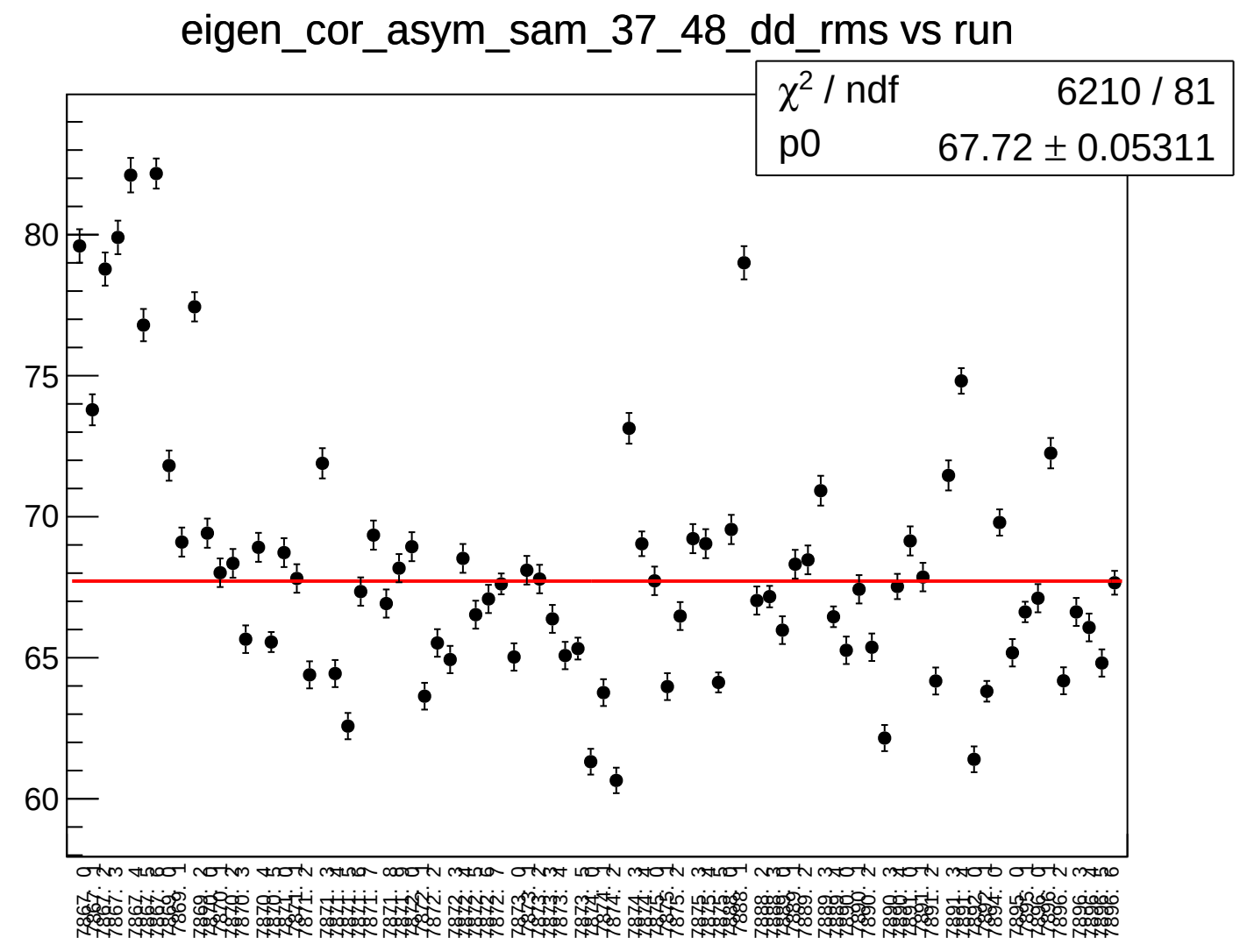

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 74.11 / 81
p0 126.1 ± 394.2
pull
Entries 82
Mean −8.688
Std Dev 9.616

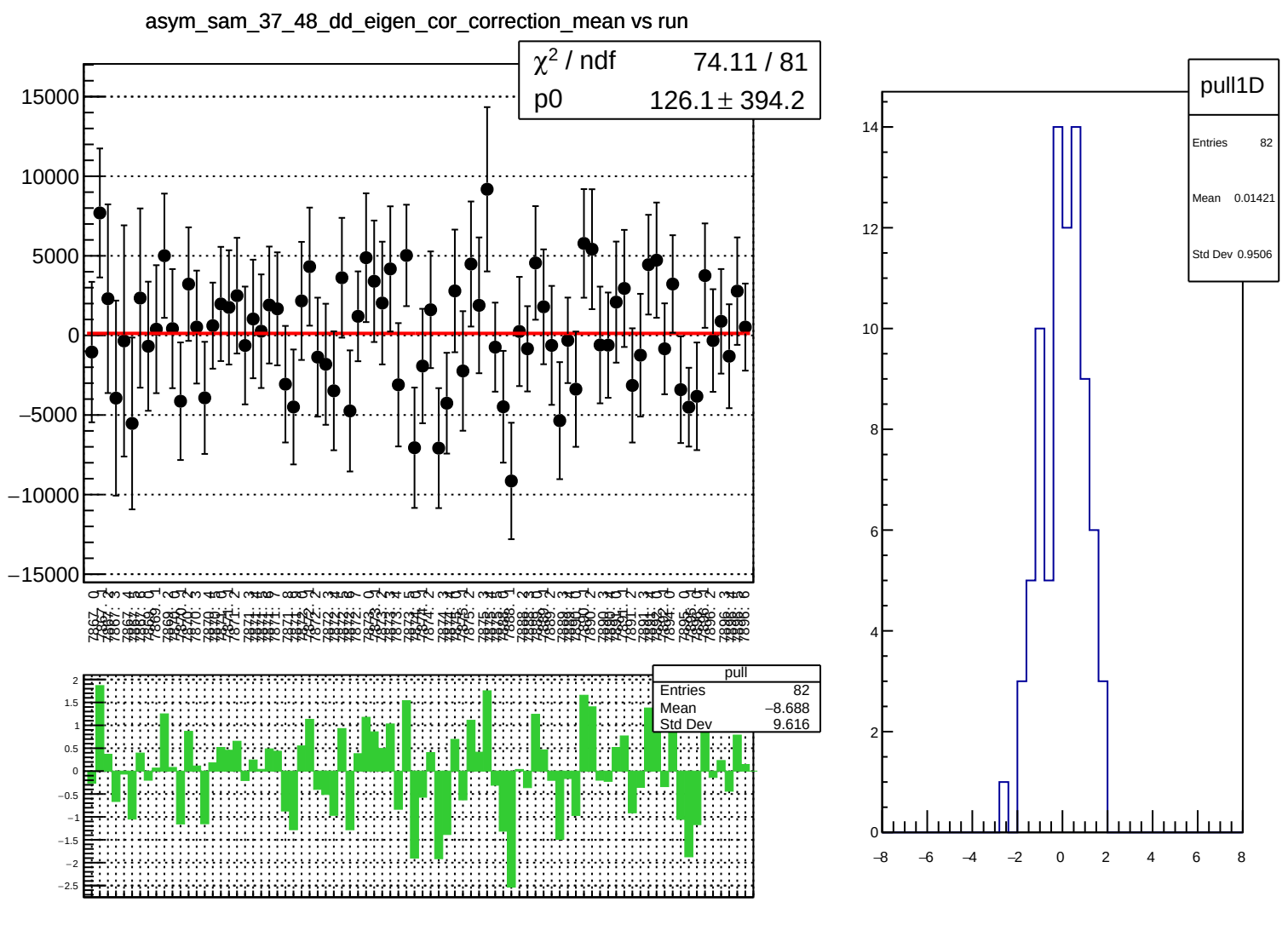

pull1D
Entries 82
Mean 0.01421
Std Dev 0.9506

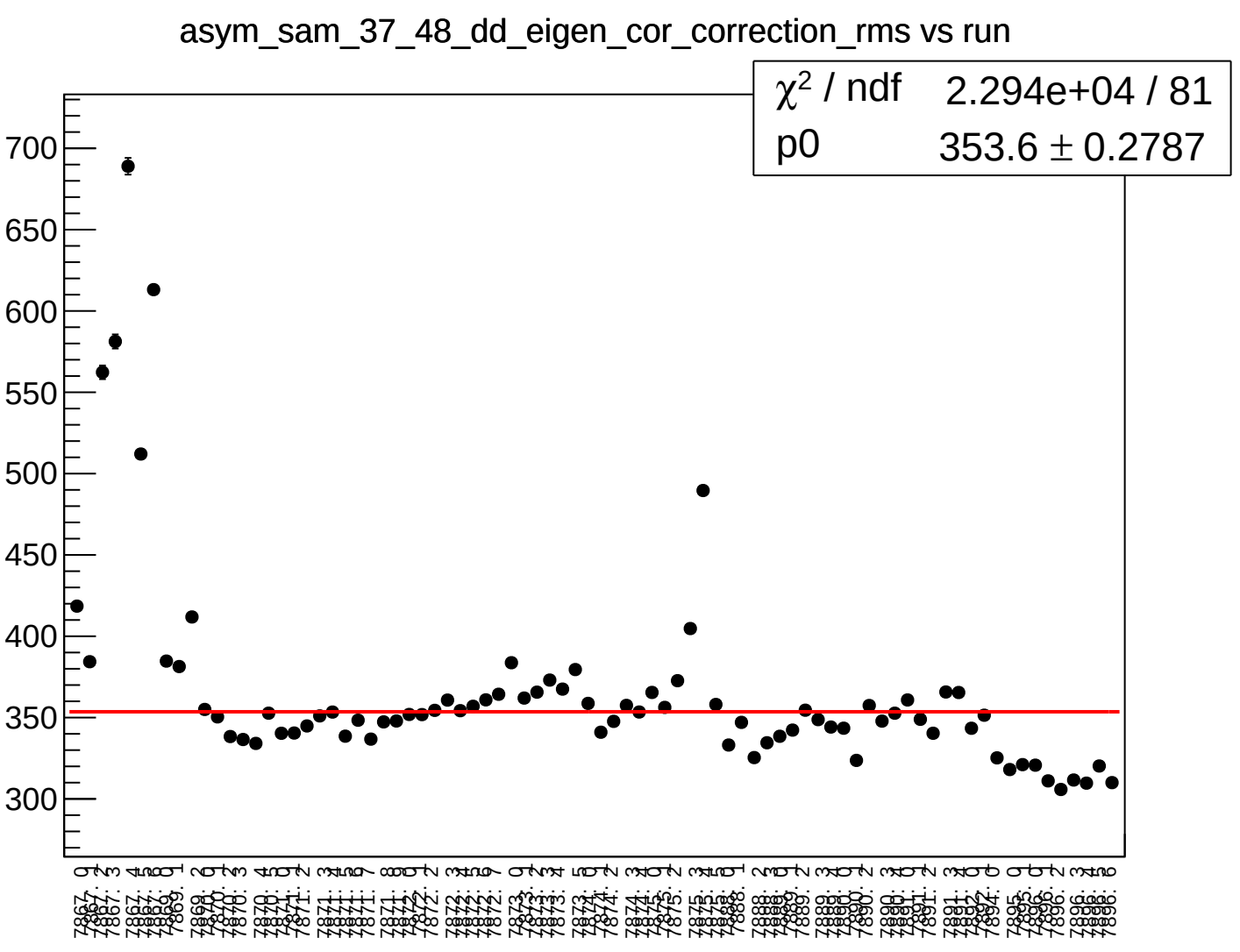

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2.294e+04 / 81
p0 353.6 ± 0.2787
700
650
600
550
500
450
400
350
300

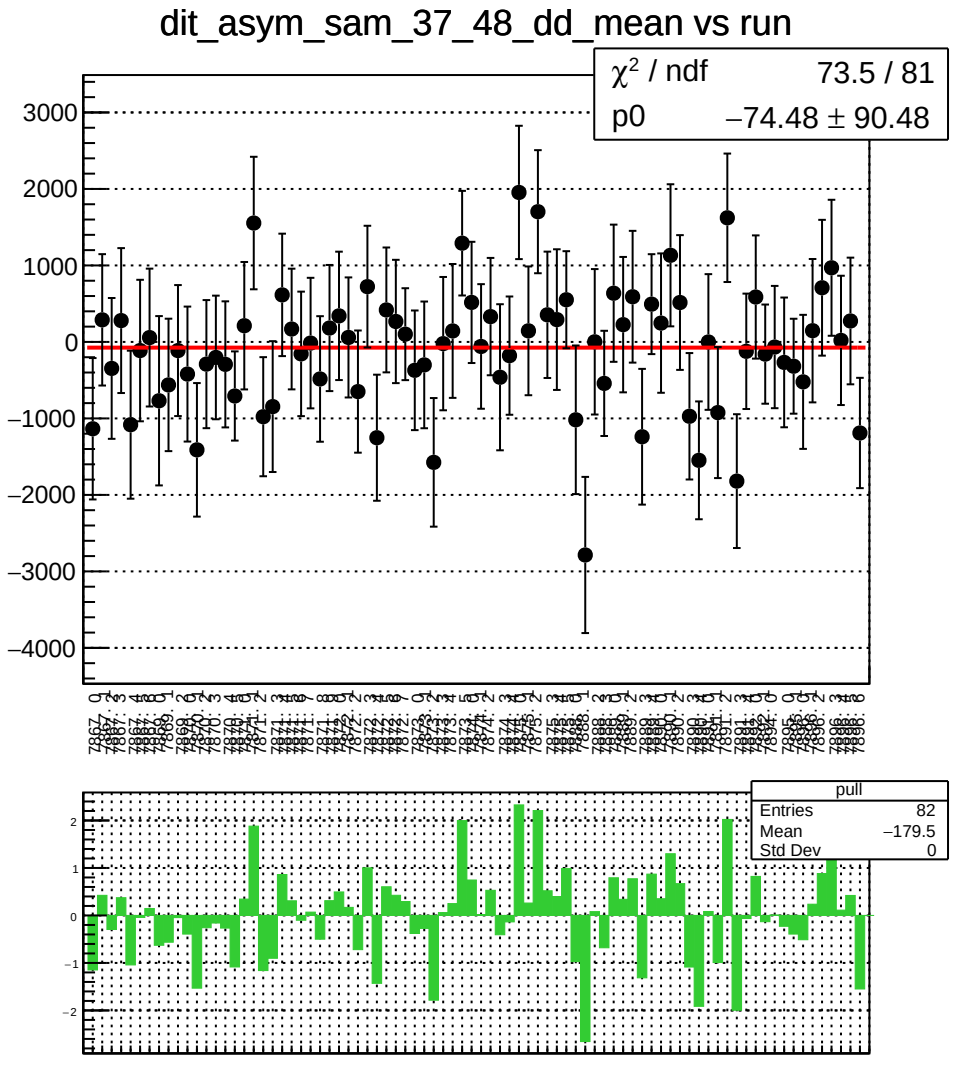

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 86 / 81
p0 46.06 ± 75.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −84.19
Std Dev 0
3
2
1
0
−1
−2

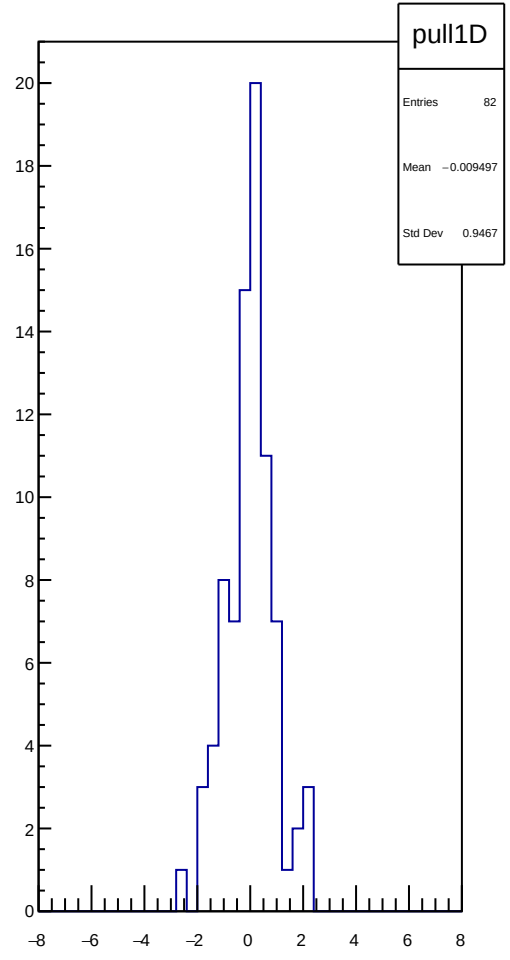

pull1D
Entries 82
Mean −0.0264
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

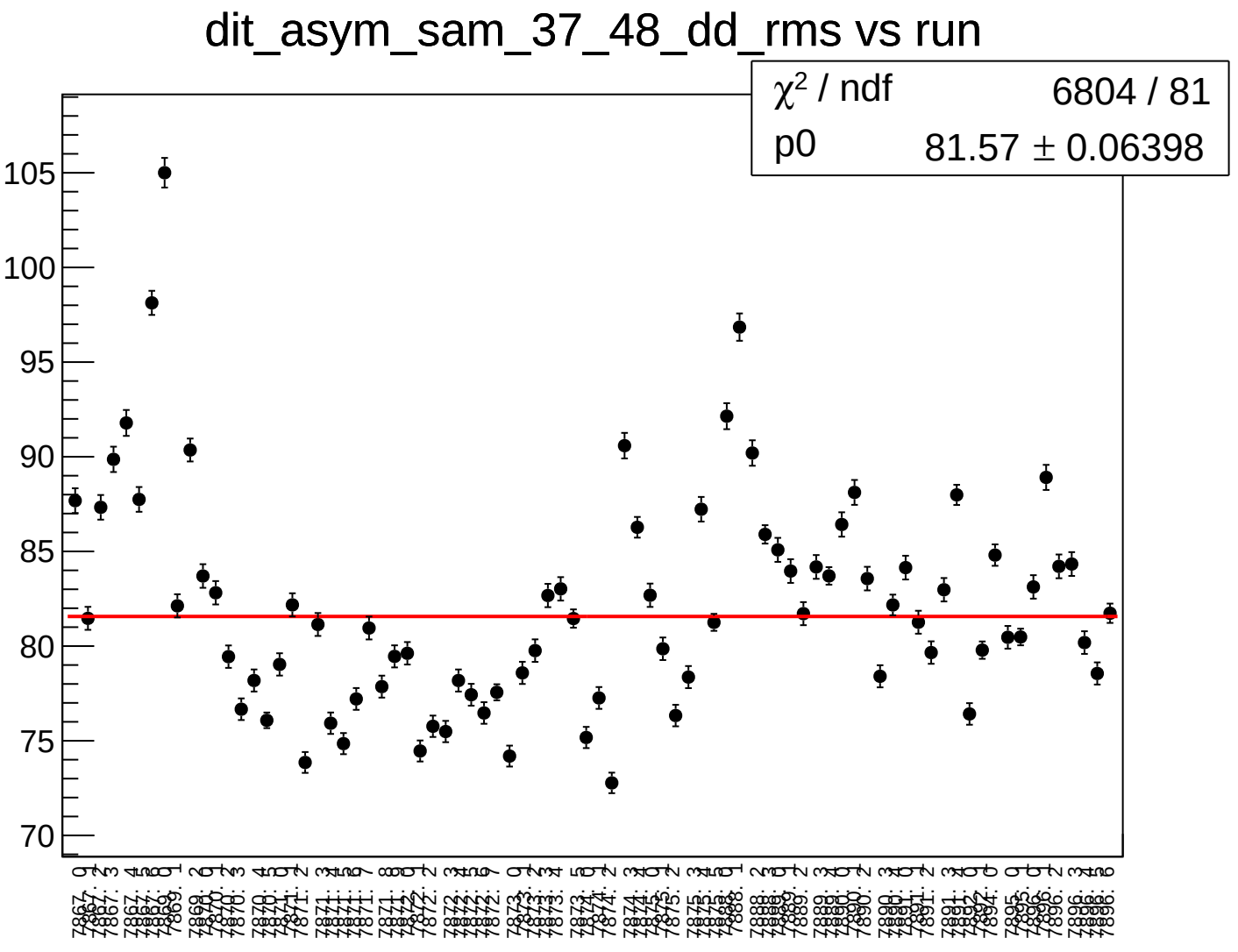

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6210 / 81
p0 67.72 ± 0.05311
80
75
70
65
60

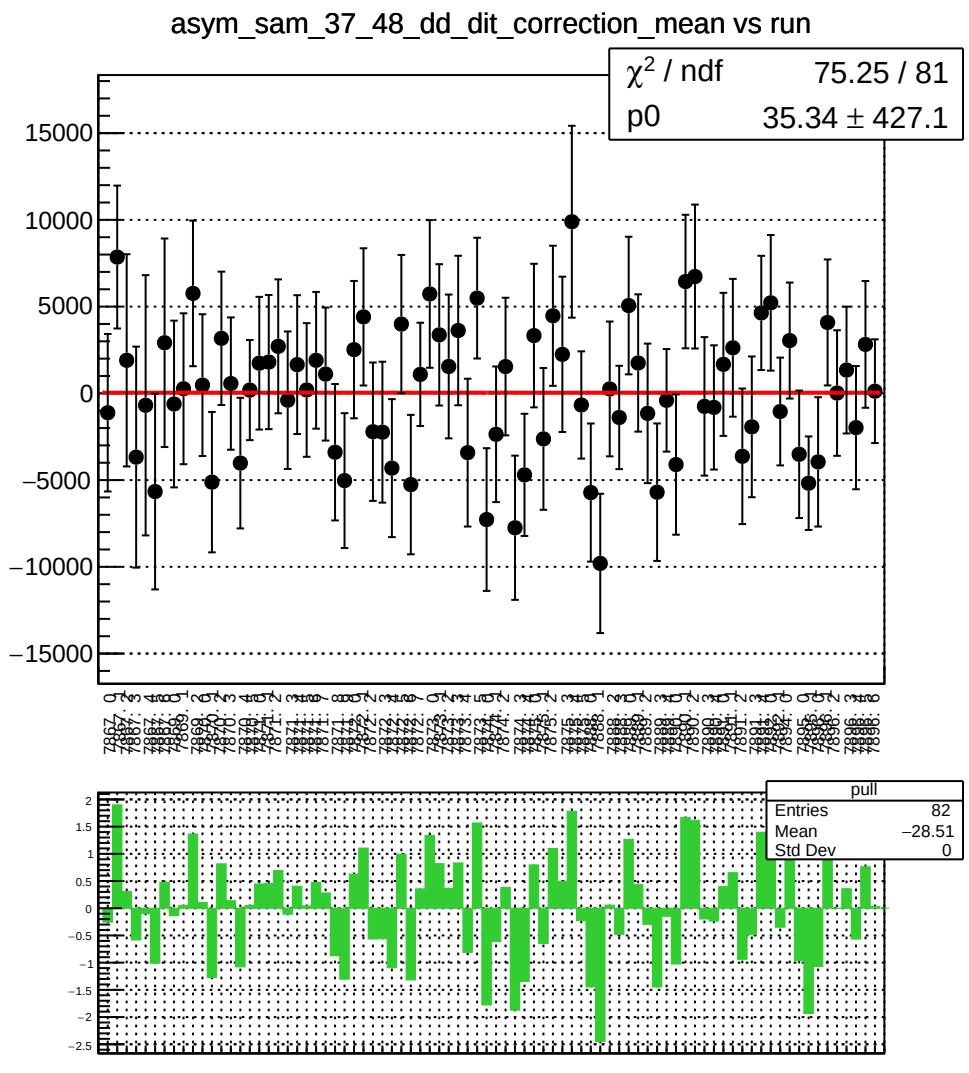

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.11 / 81
p0 126.1 ± 394.2
pull
Entries 82
Mean −8.688
Std Dev 9.616
pull1D
Entries 82
Mean 0.01421
Std Dev 0.9506

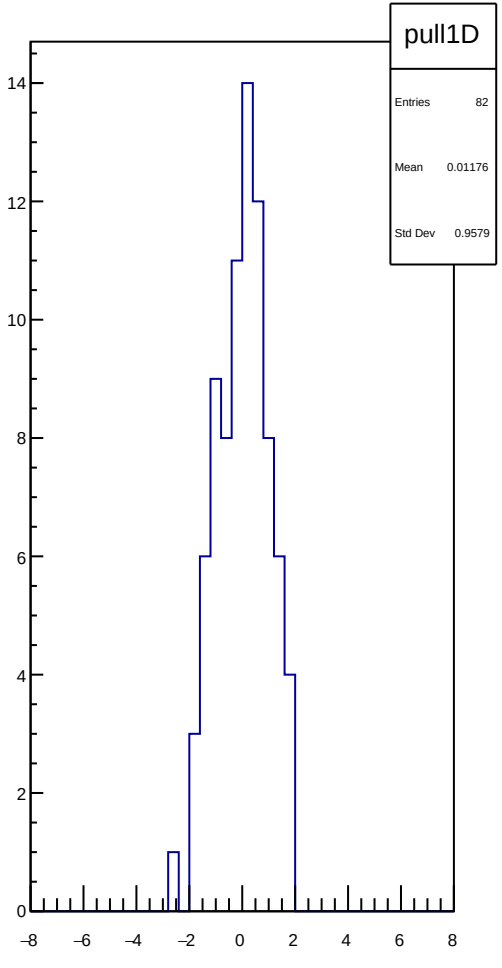

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.294e+04 / 81
p0 353.6 ± 0.2787
700
650
600
550
500
450
400
350
300

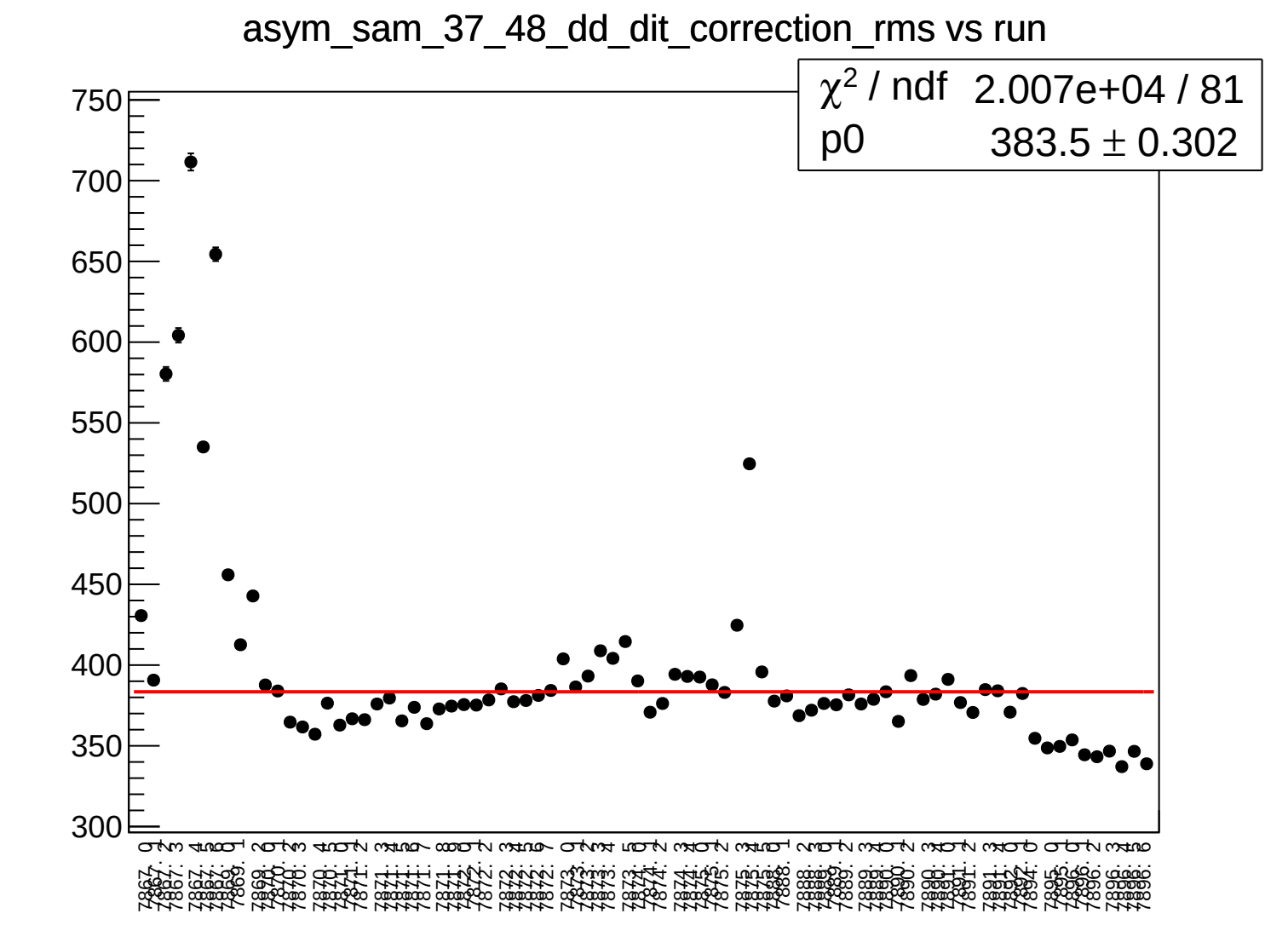

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 73.5 / 81
p0 −74.48 ± 90.48
pull
Entries 82
Mean −179.5
Std Dev 0

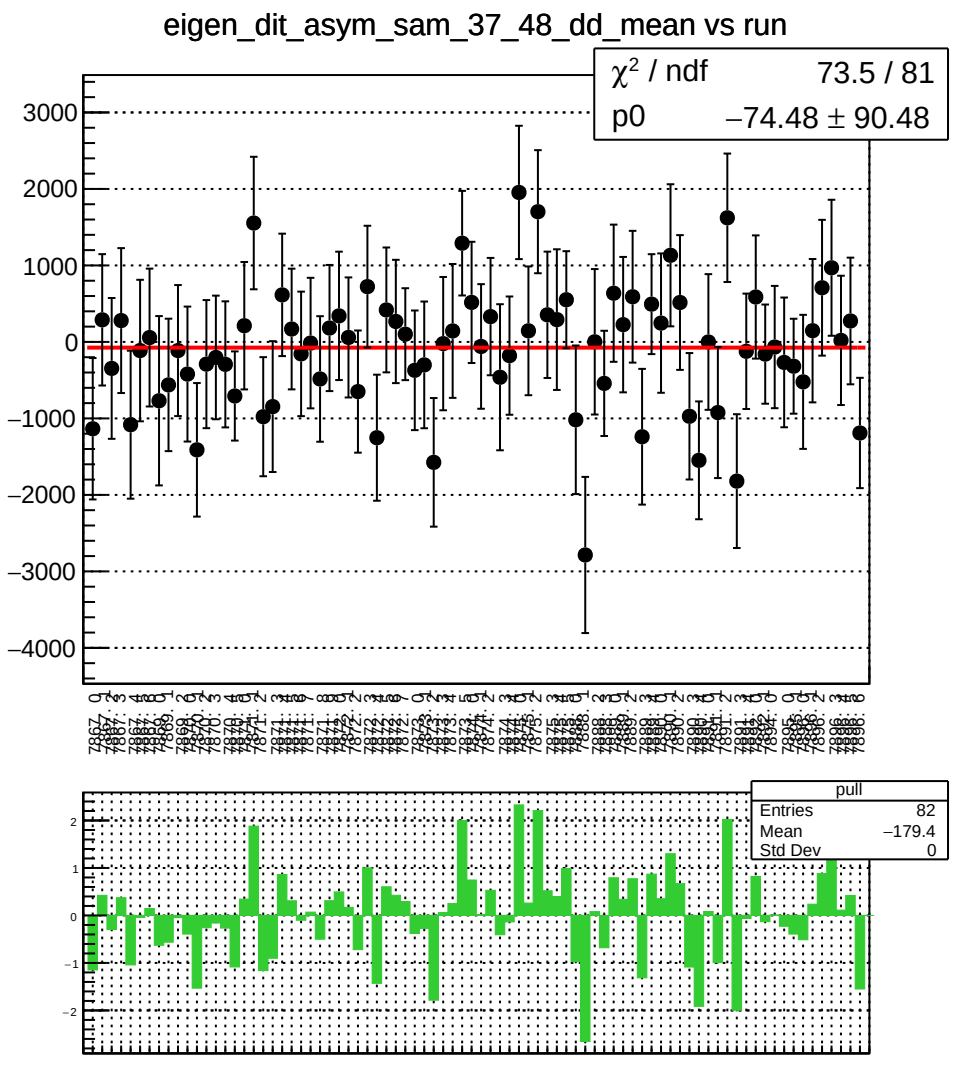

pull1D
Entries 82
Mean −0.009497
Std Dev 0.9467

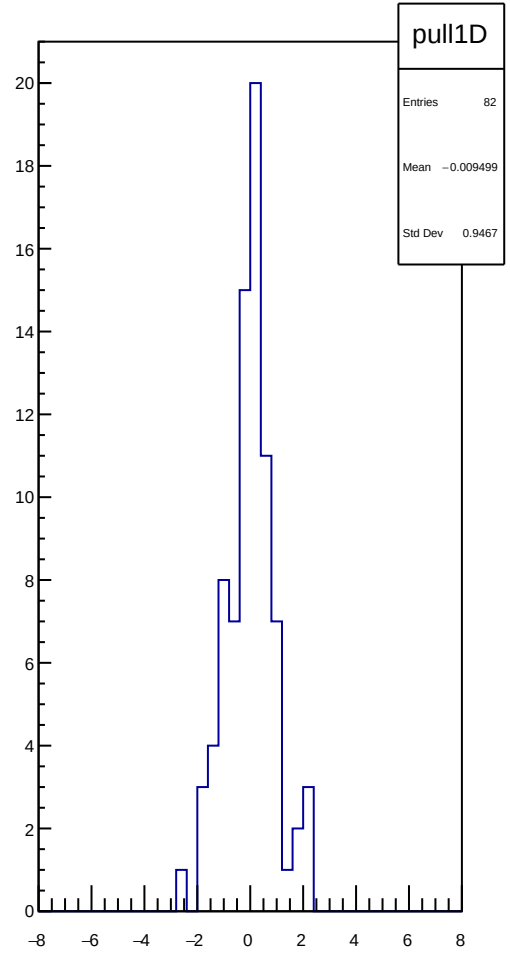

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 6804 / 81
p0 81.57 ± 0.06398
105
100
95
90
85
80
75
70

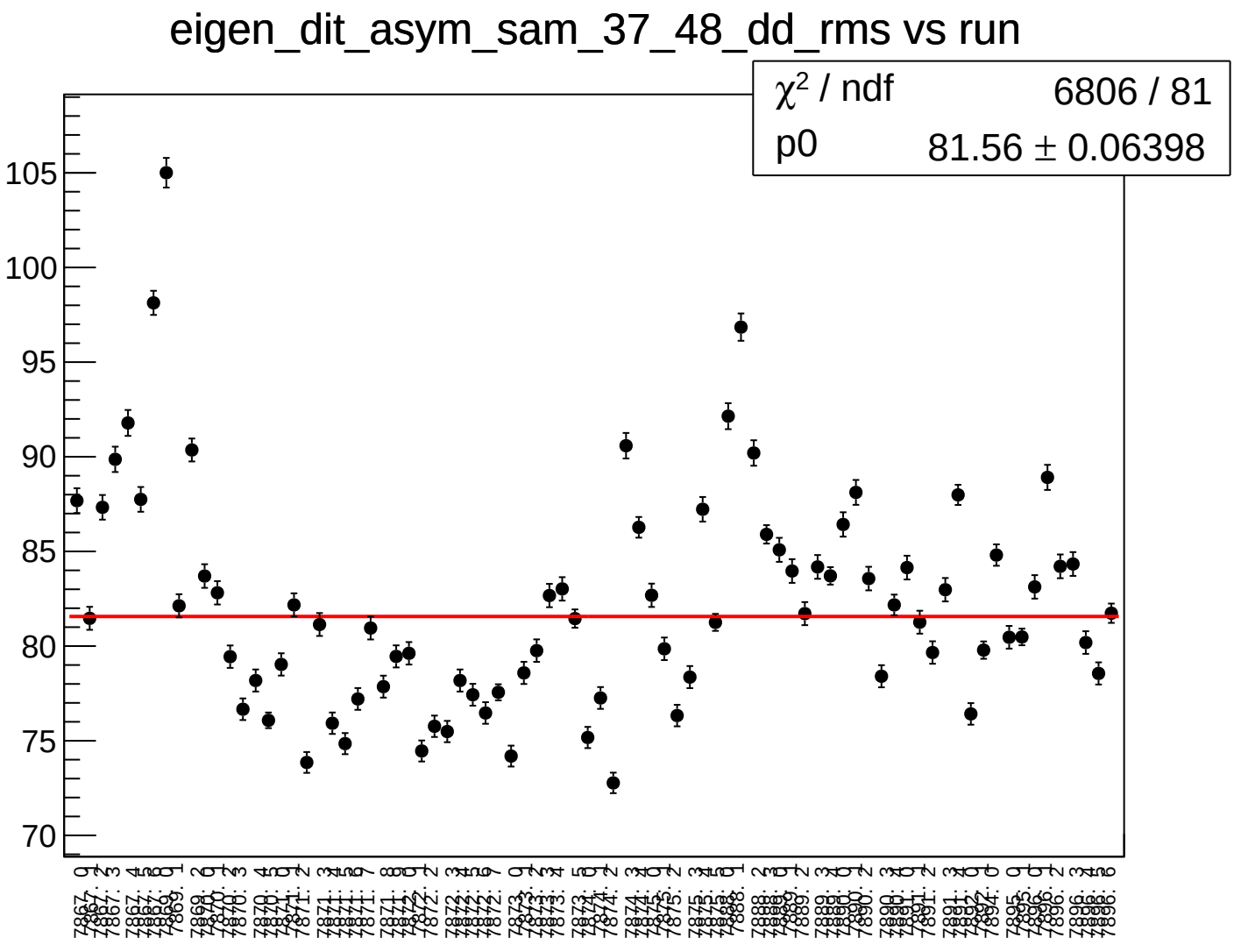

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 75.25 / 81
p0 35.34 ± 427.1
pull
Entries 82
Mean −28.51
Std Dev 0

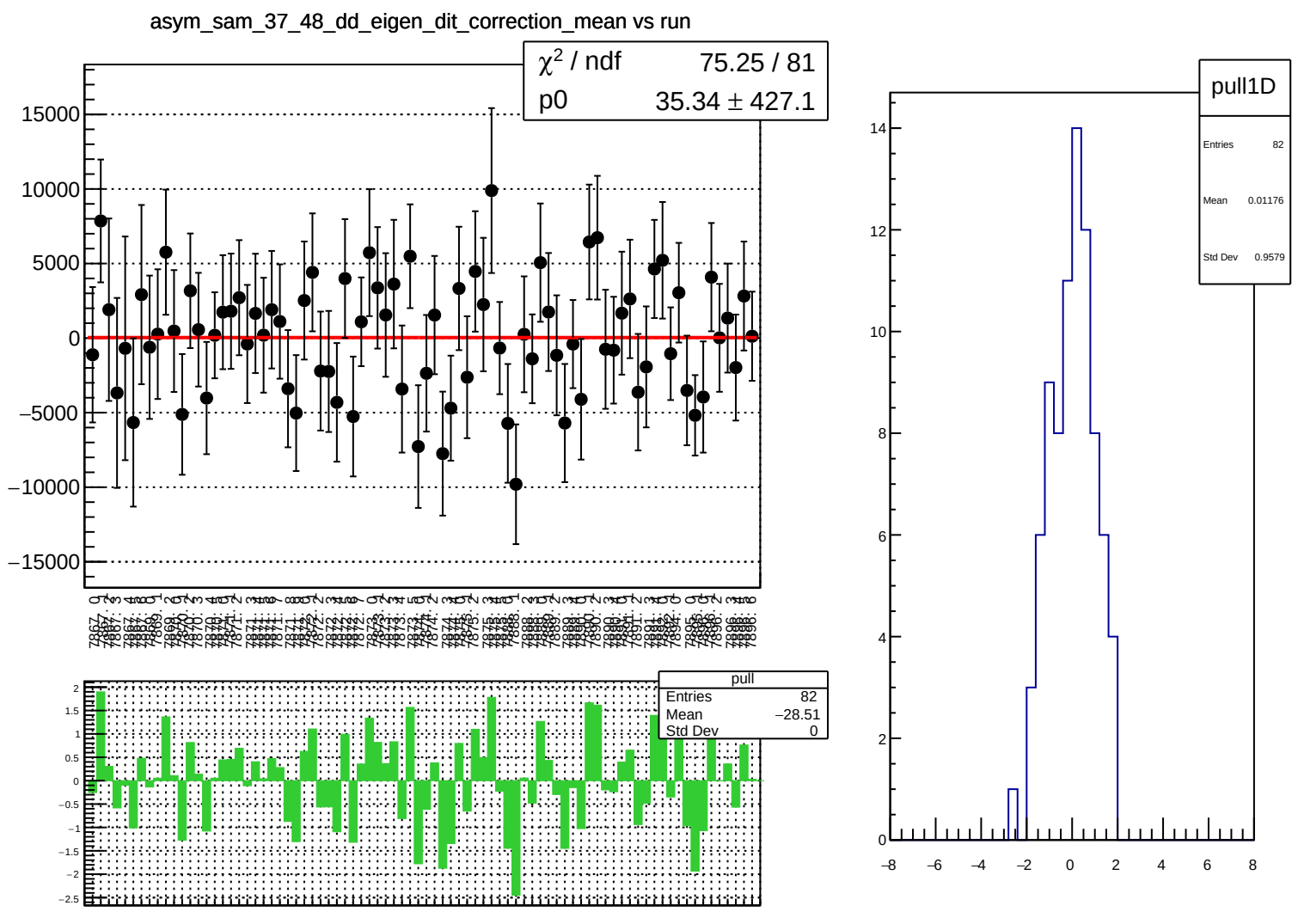

pull1D
Entries 82
Mean 0.01176
Std Dev 0.9579

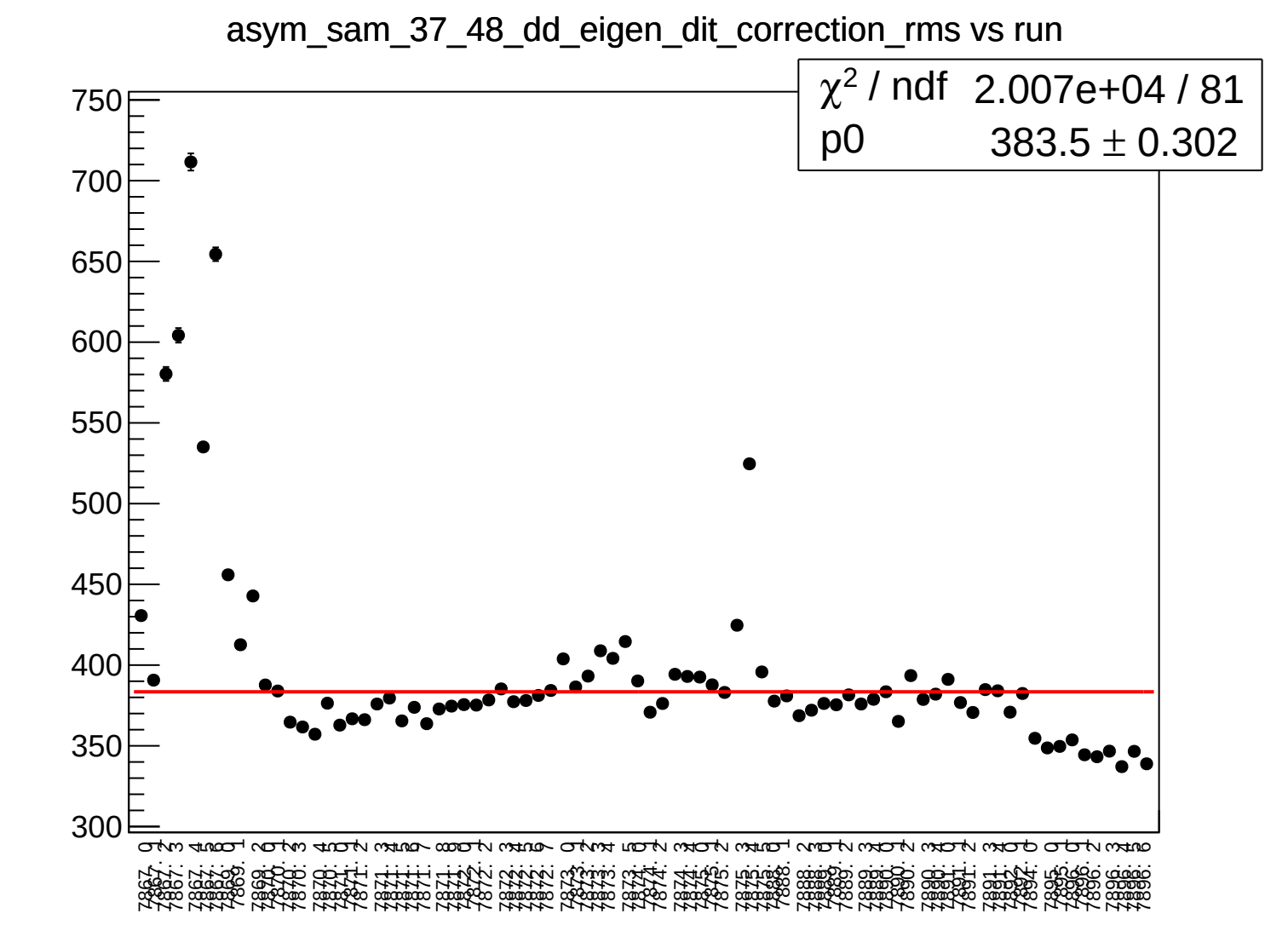

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2.007e+04 / 81
p0 383.5 ± 0.302
750
700
650
600
550
500
450
400
350
300

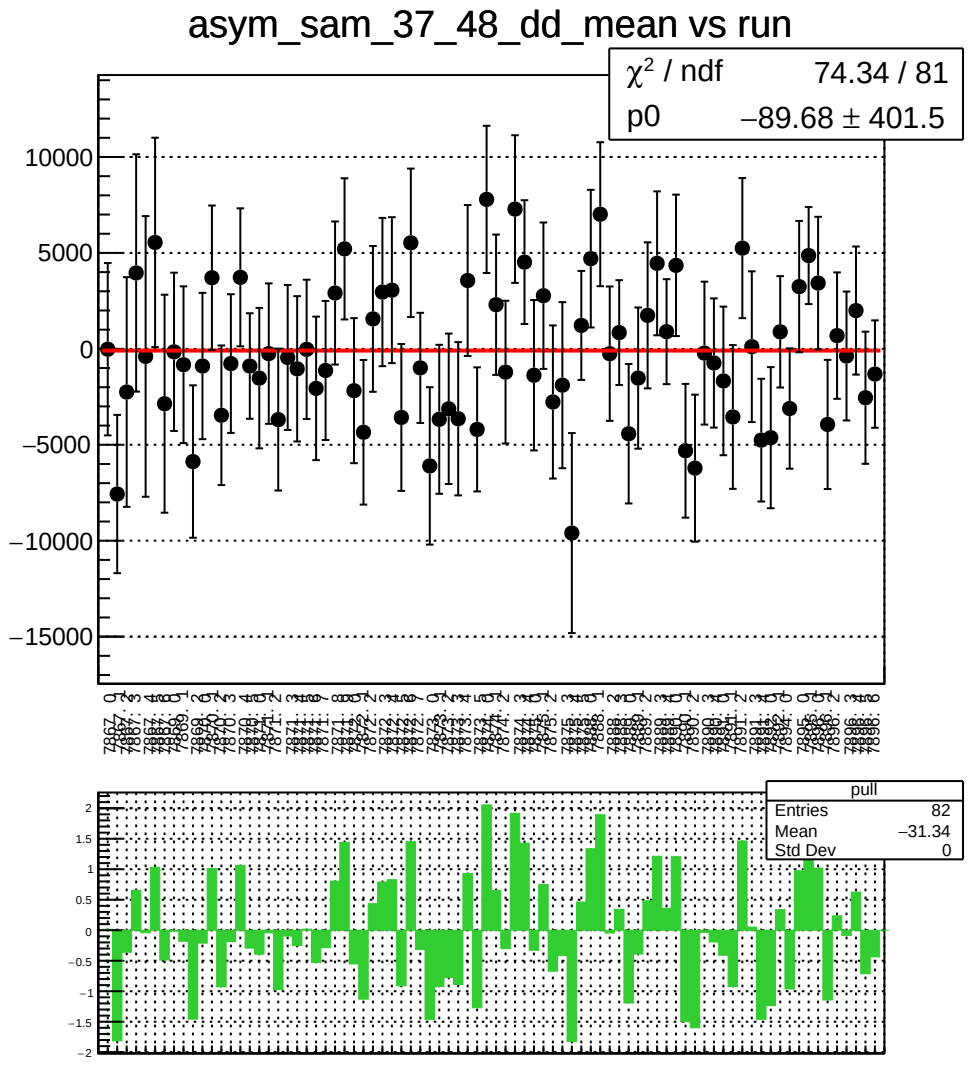

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 73.5 / 81
p0 −74.48 ± 90.48
pull
Entries 82
Mean −179.4
Std Dev 0

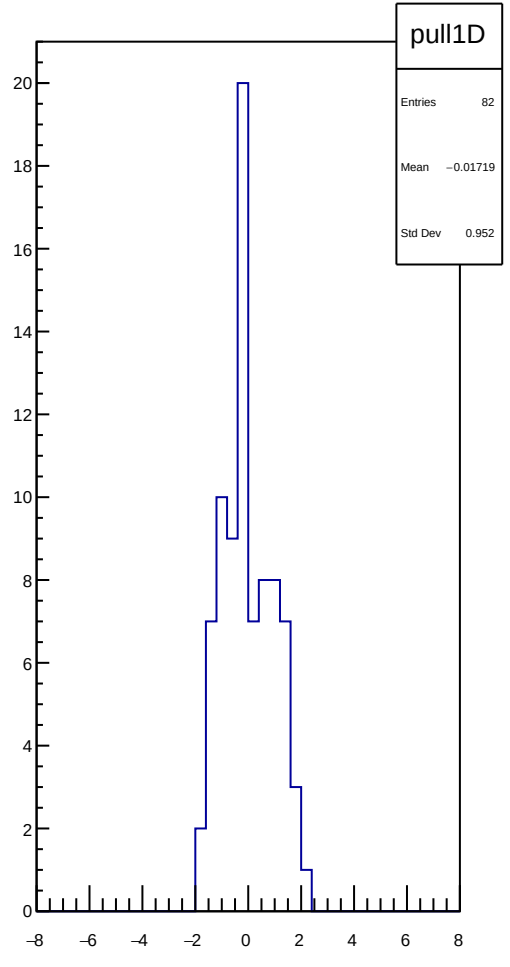

pull1D
Entries 82
Mean −0.009499
Std Dev 0.9467

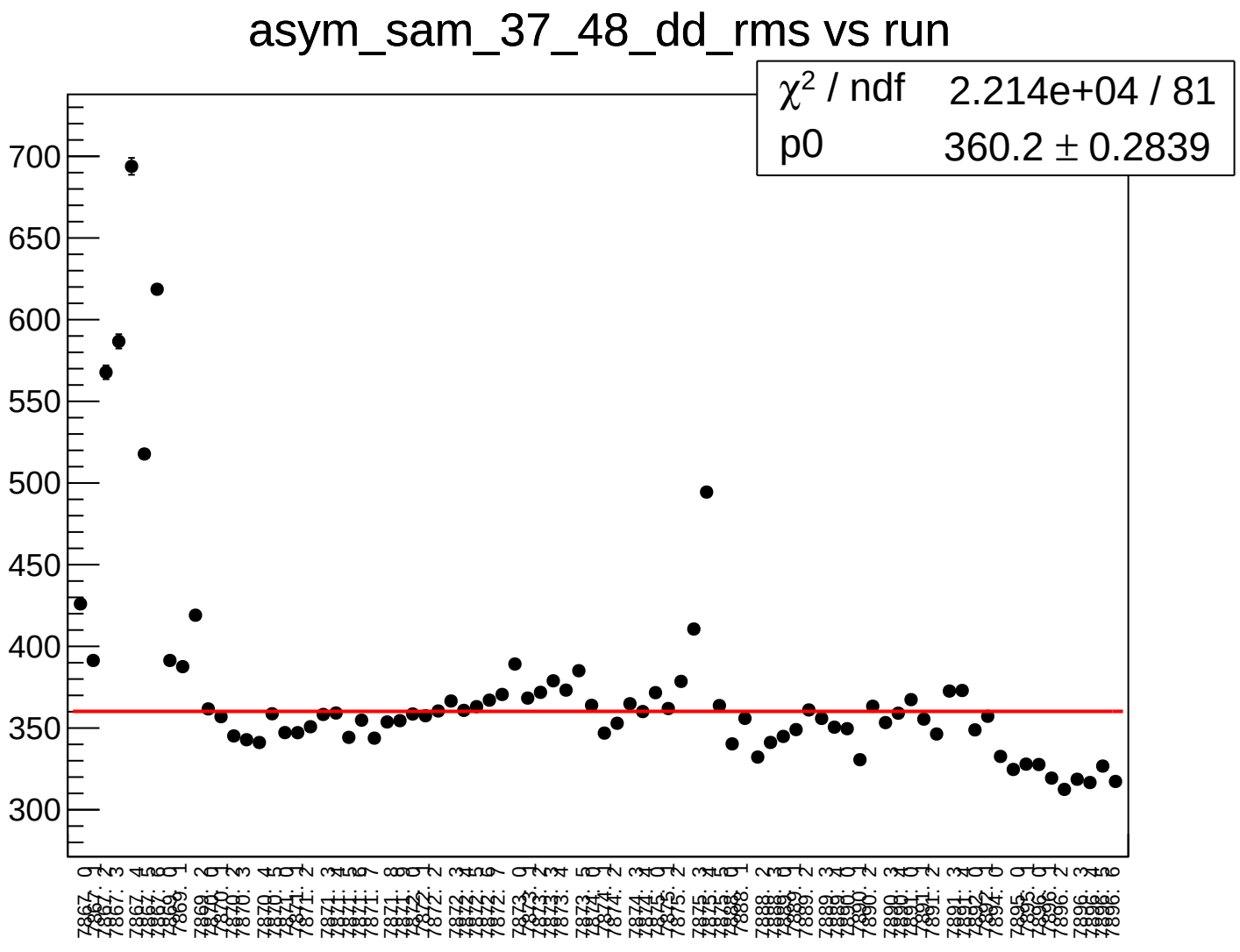

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6806 / 81
p0 81.56 ± 0.06398
105
100
95
90
85
80
75
70

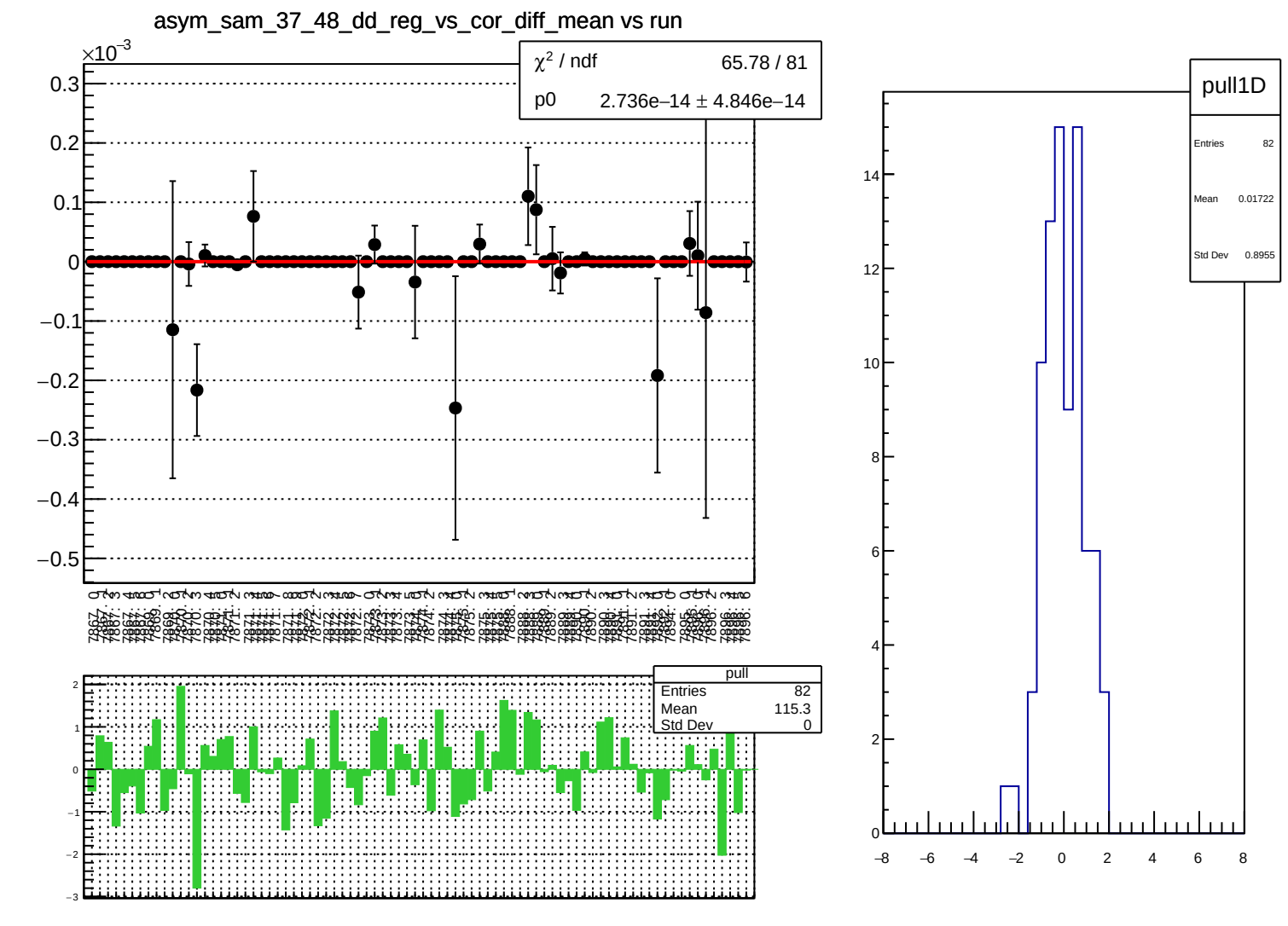

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.25 / 81
p0 35.34 ± 427.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −28.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean 0.01176
Std Dev 0.9579
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

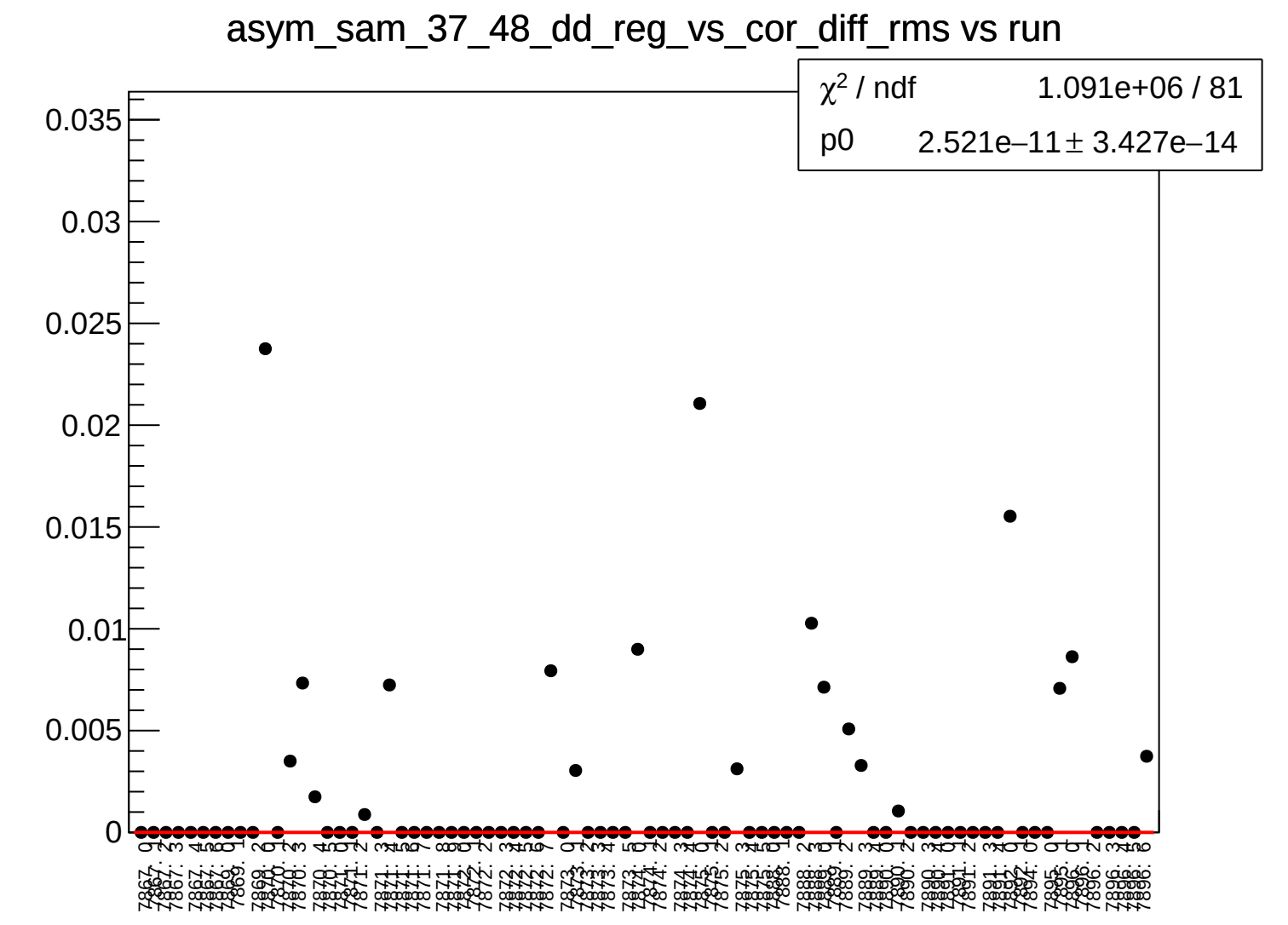

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.007e+04 / 81
p0 383.5 ± 0.302
750
700
650
600
550
500
450
400
350
300

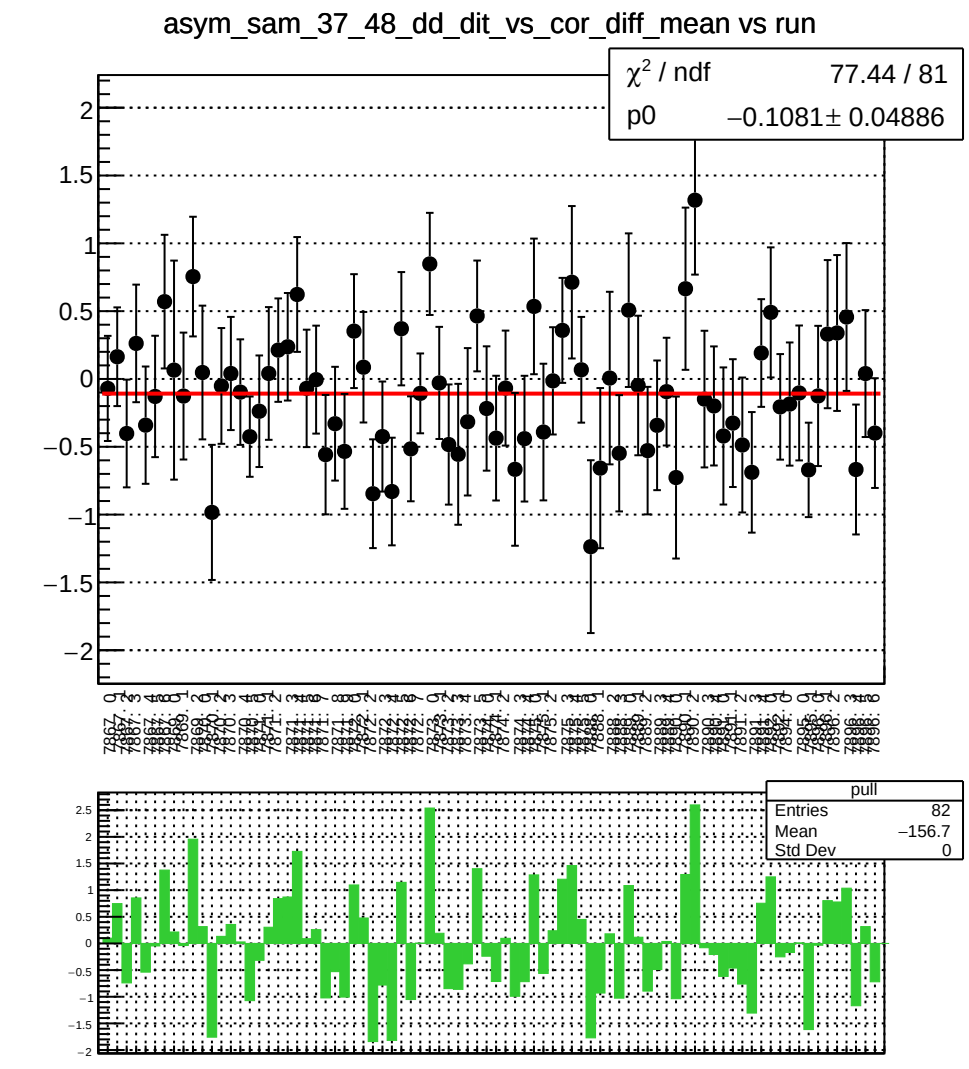

asym_sam_37_48_dd_mean vs run
χ² / ndf 74.34 / 81
p0 −89.68 ± 401.5
pull
Entries 82
Mean −31.34
Std Dev 0

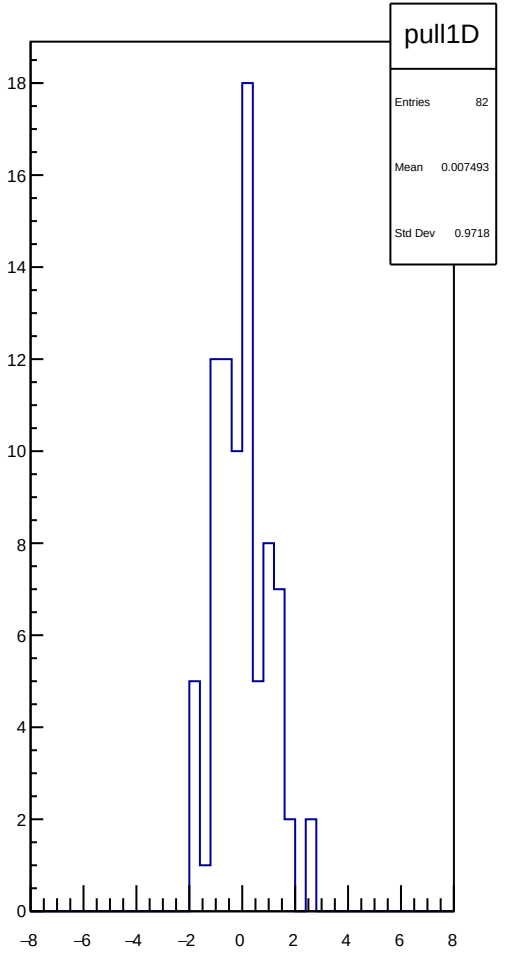

pull1D
Entries 82
Mean −0.01719
Std Dev 0.952

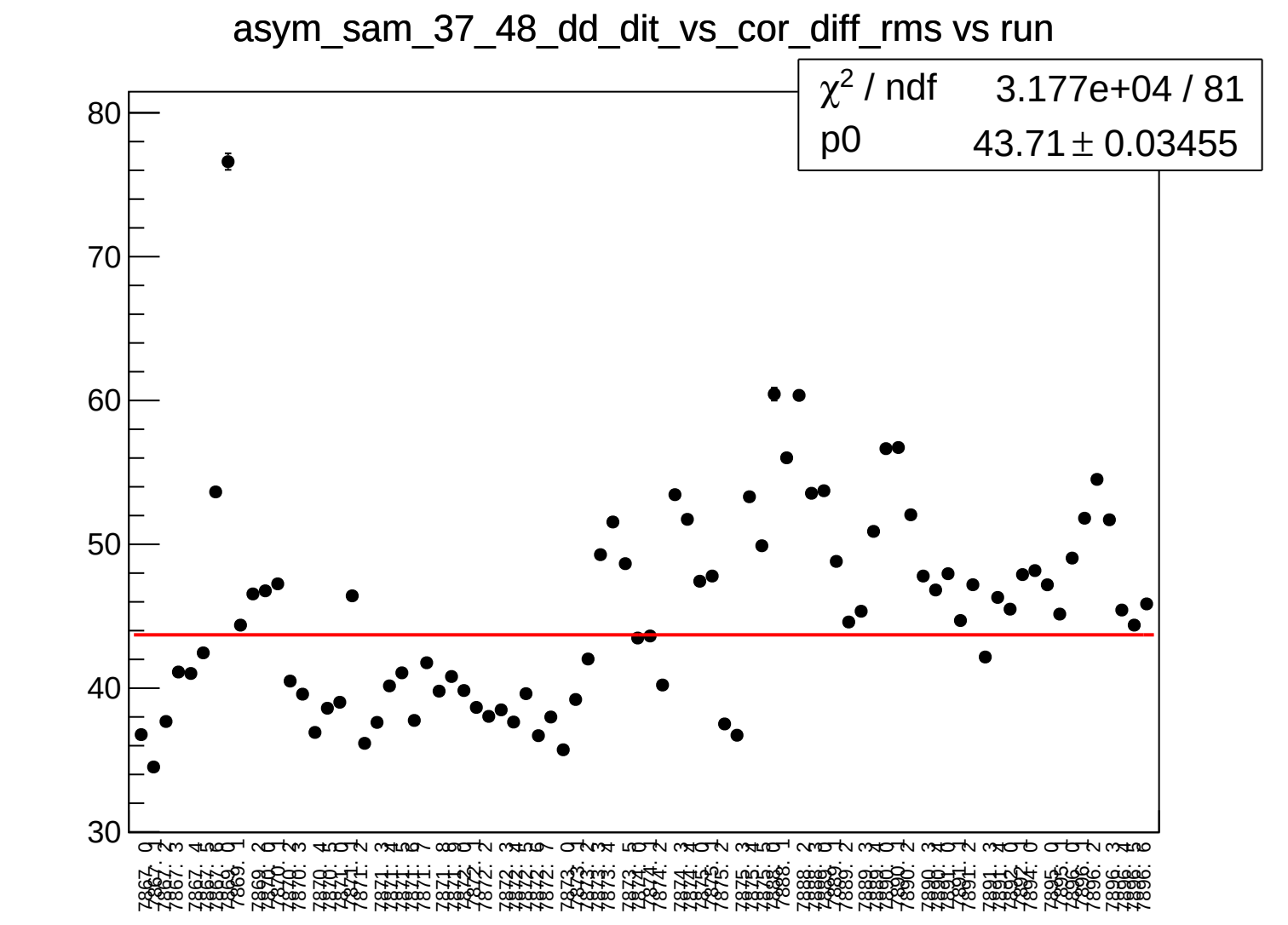

asym_sam_37_48_dd_rms vs run
χ² / ndf 2.214e+04 / 81
p0 360.2 ± 0.2839
700
650
600
550
500
450
400
350
300

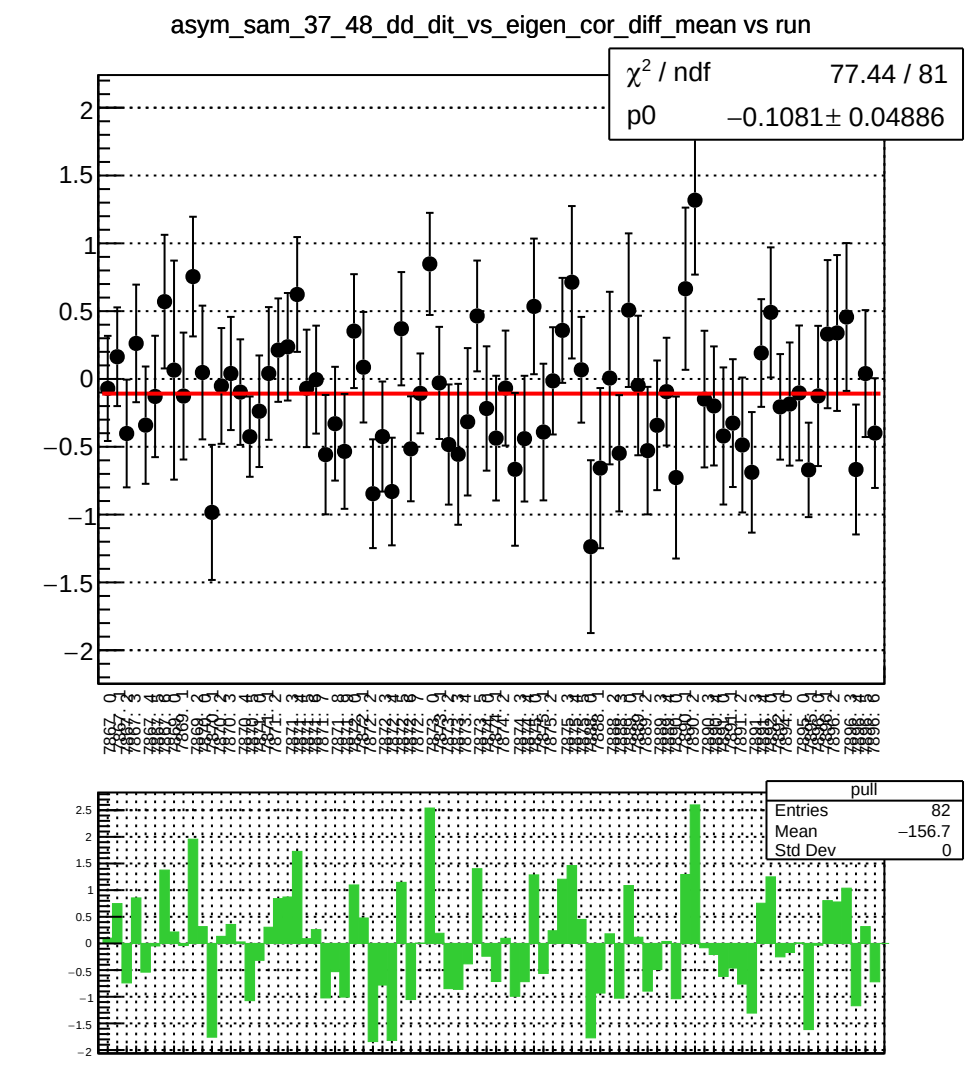

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 65.78 / 81
p0 2.736e−14 ± 4.846e−14
pull
Entries 82
Mean 115.3
Std Dev 0
pull1D
Entries 82
Mean 0.01722
Std Dev 0.8955

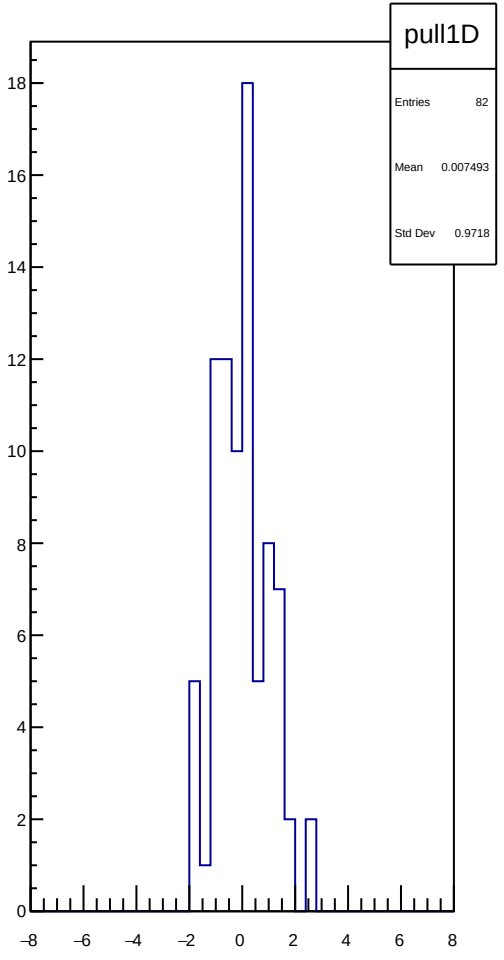

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 81
p0 2.521e−11 ± 3.427e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

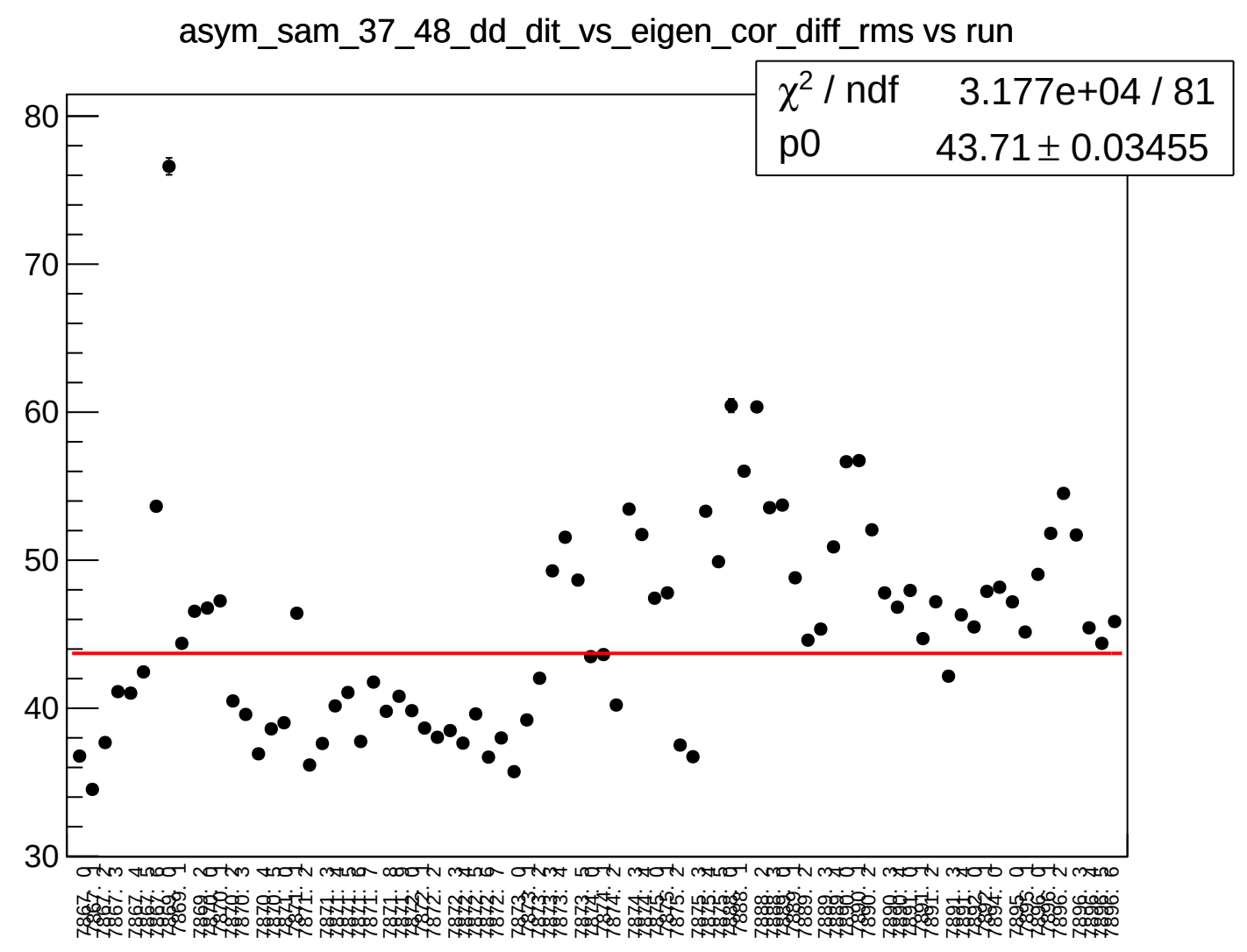

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.44 / 81
p0 −0.1081± 0.04886
pull
Entries 82
Mean −156.7
Std Dev 0

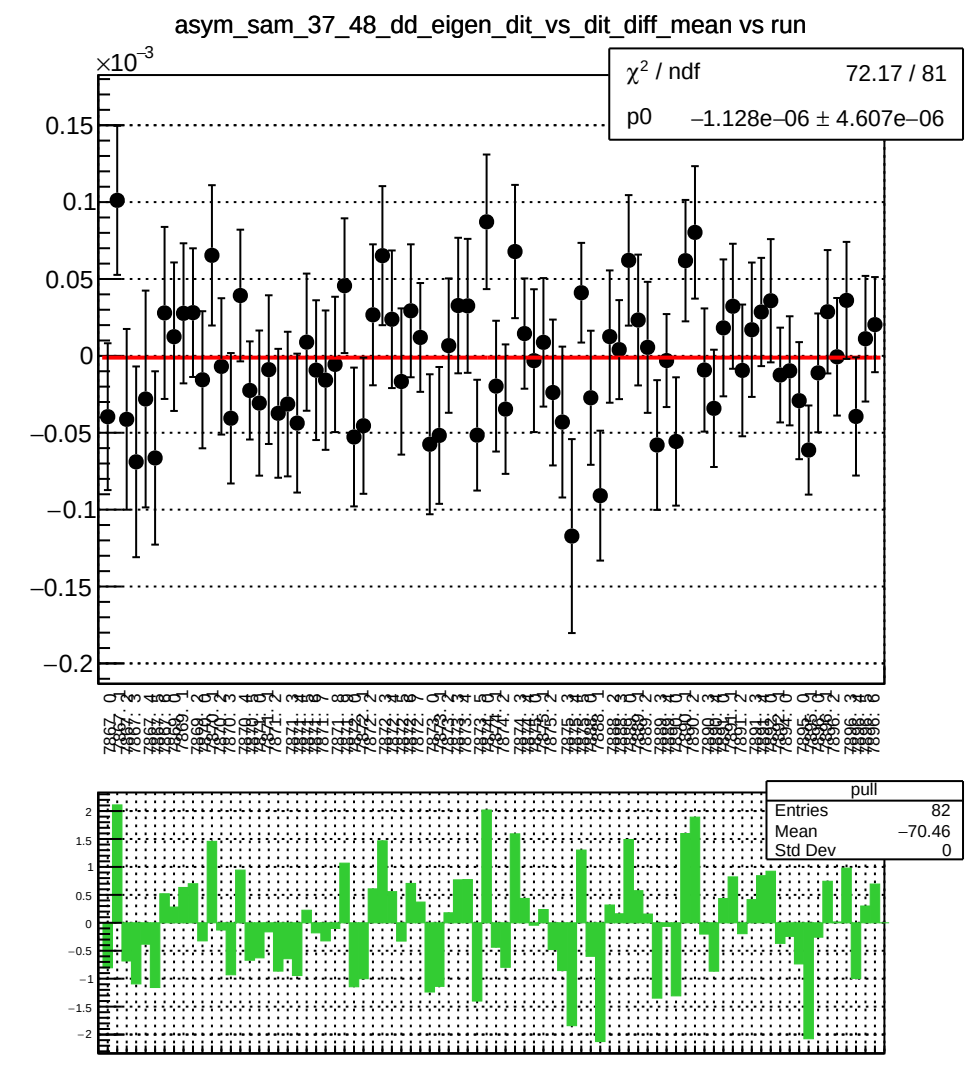

pull1D
Entries 82
Mean 0.007493
Std Dev 0.9718

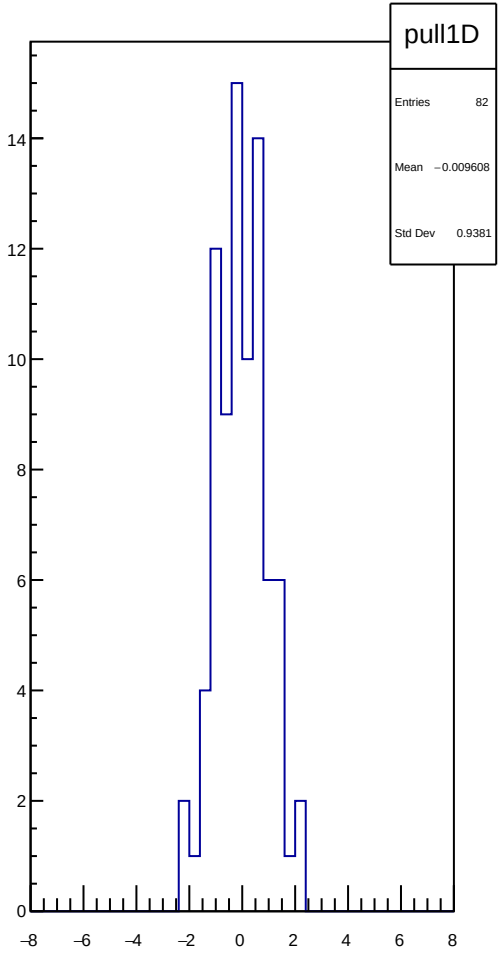

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.177e+04 / 81
p0 43.71 ± 0.03455
80
70
60
50
40
30

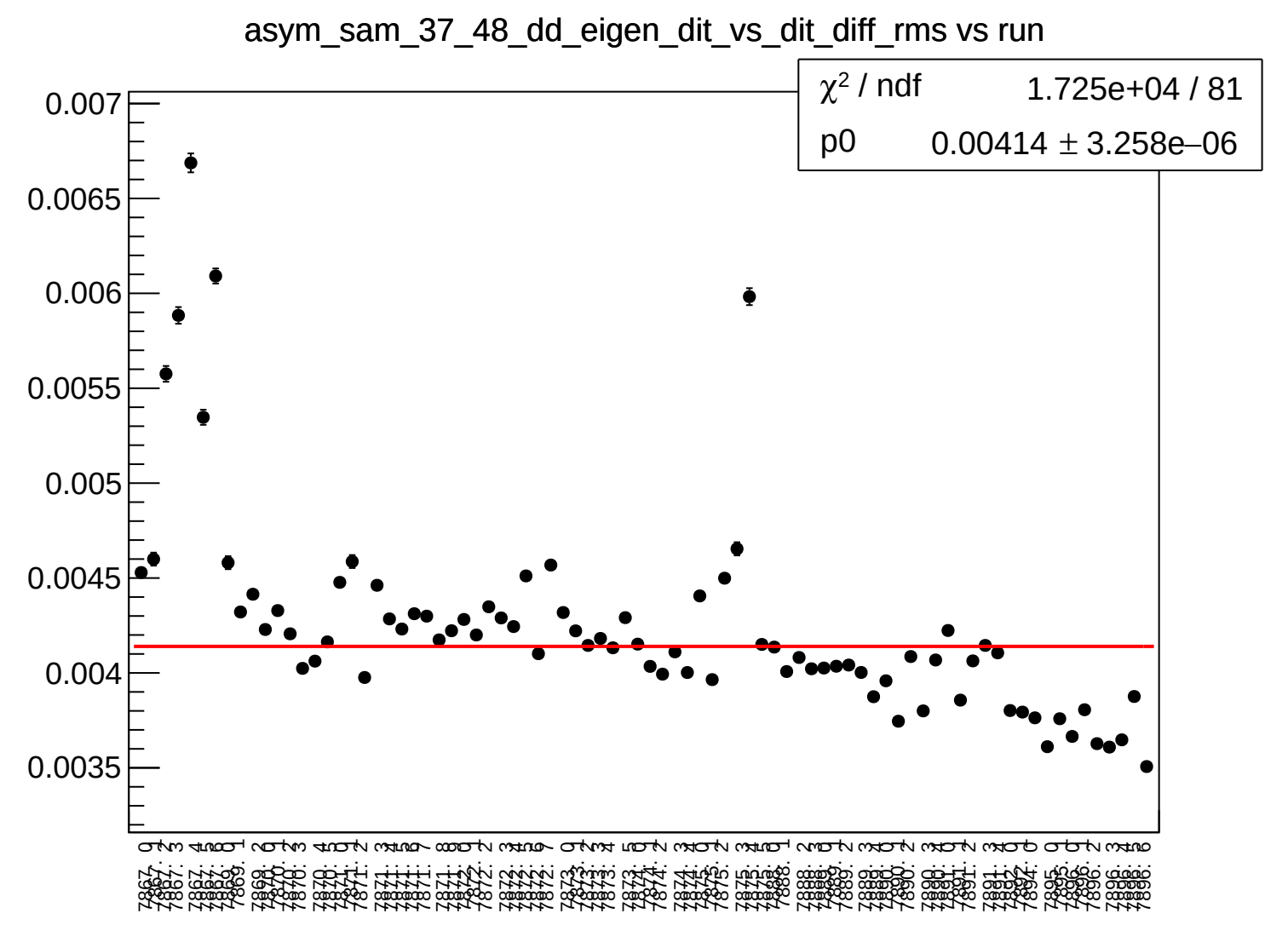

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.44 / 81
p0 −0.1081± 0.04886
pull
Entries 82
Mean −156.7
Std Dev 0

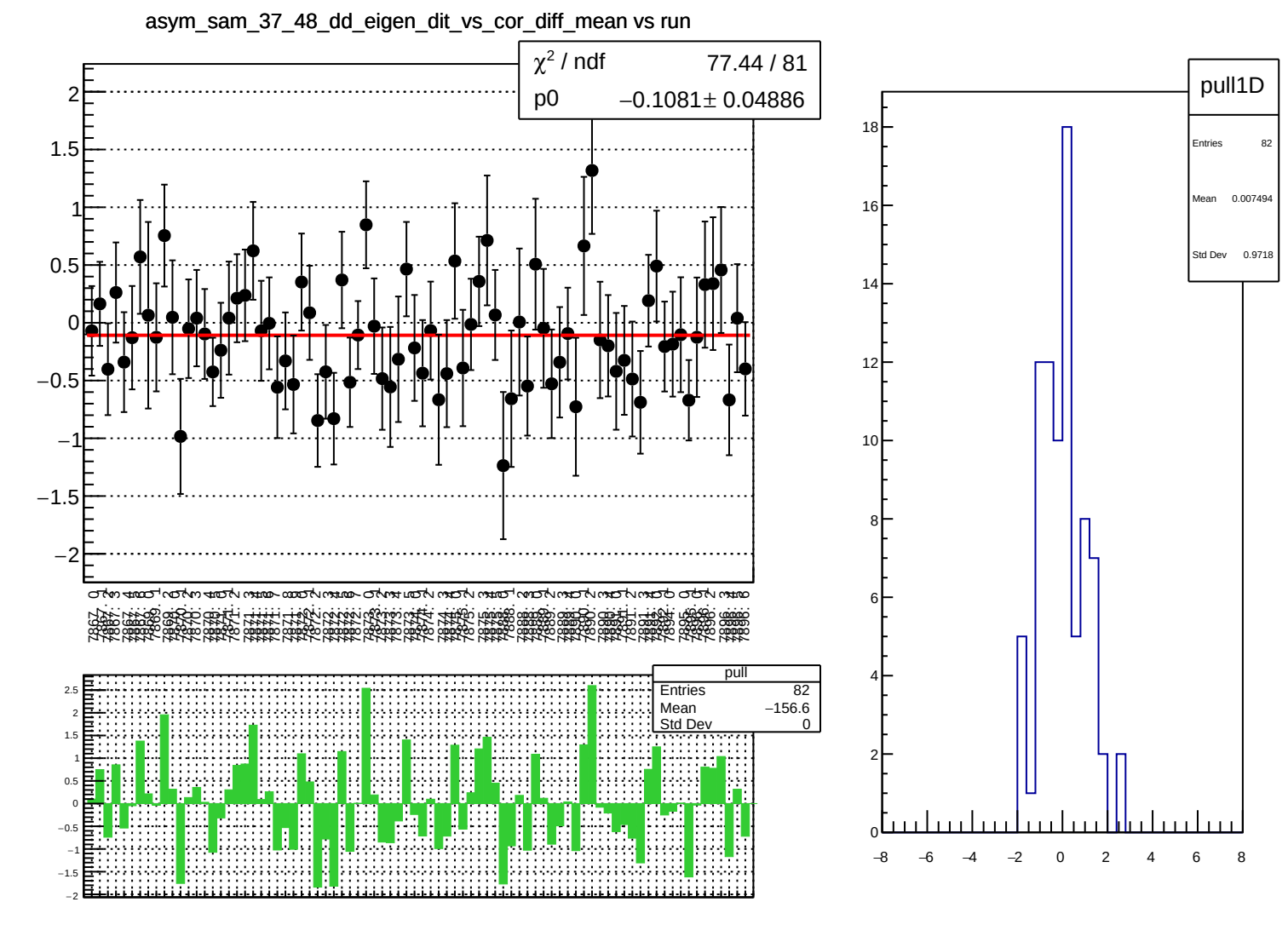

pull1D
Entries 82
Mean 0.007493
Std Dev 0.9718

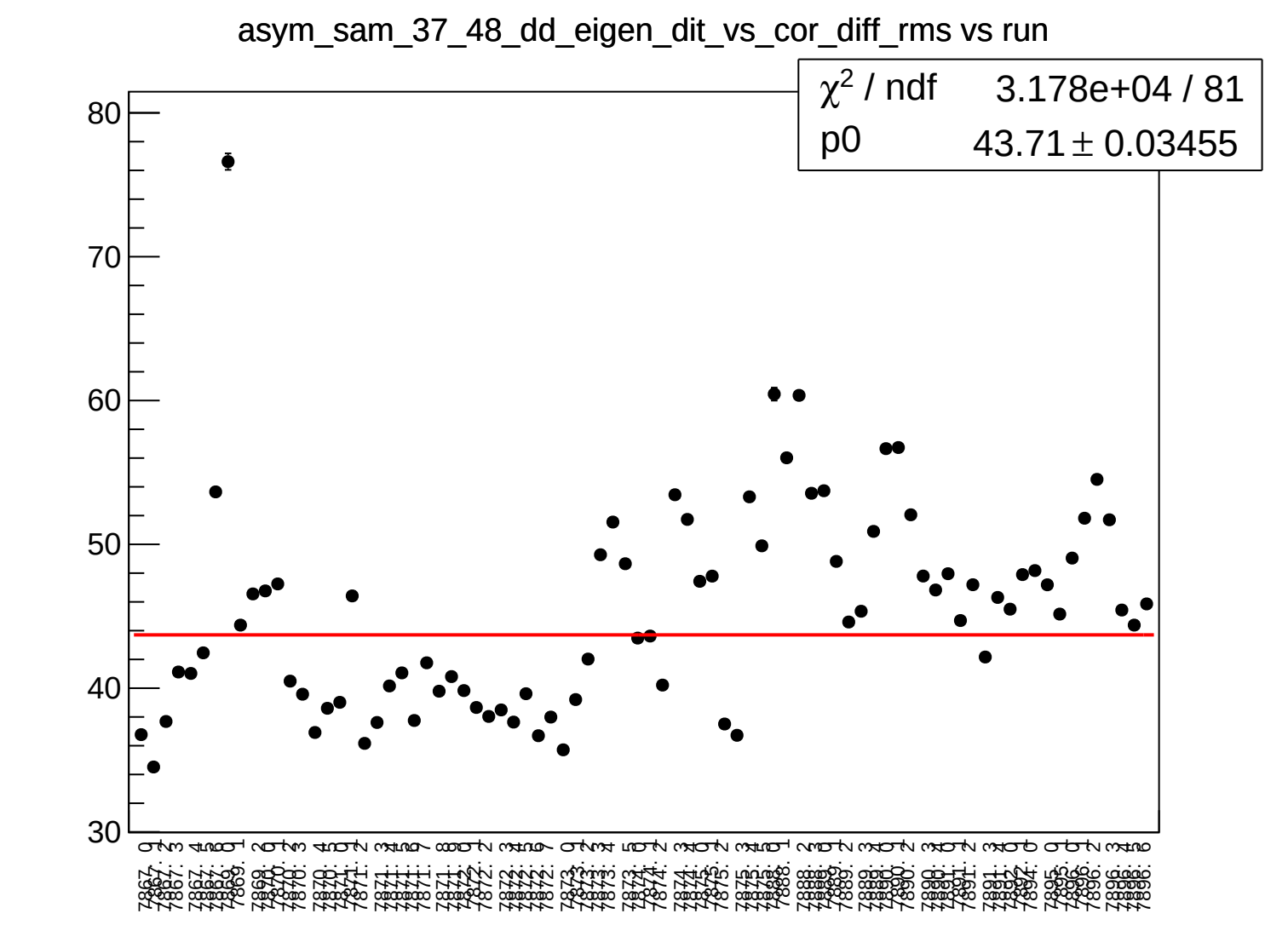

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.177e+04 / 81
p0 43.71 ± 0.03455
80
70
60
50
40
30

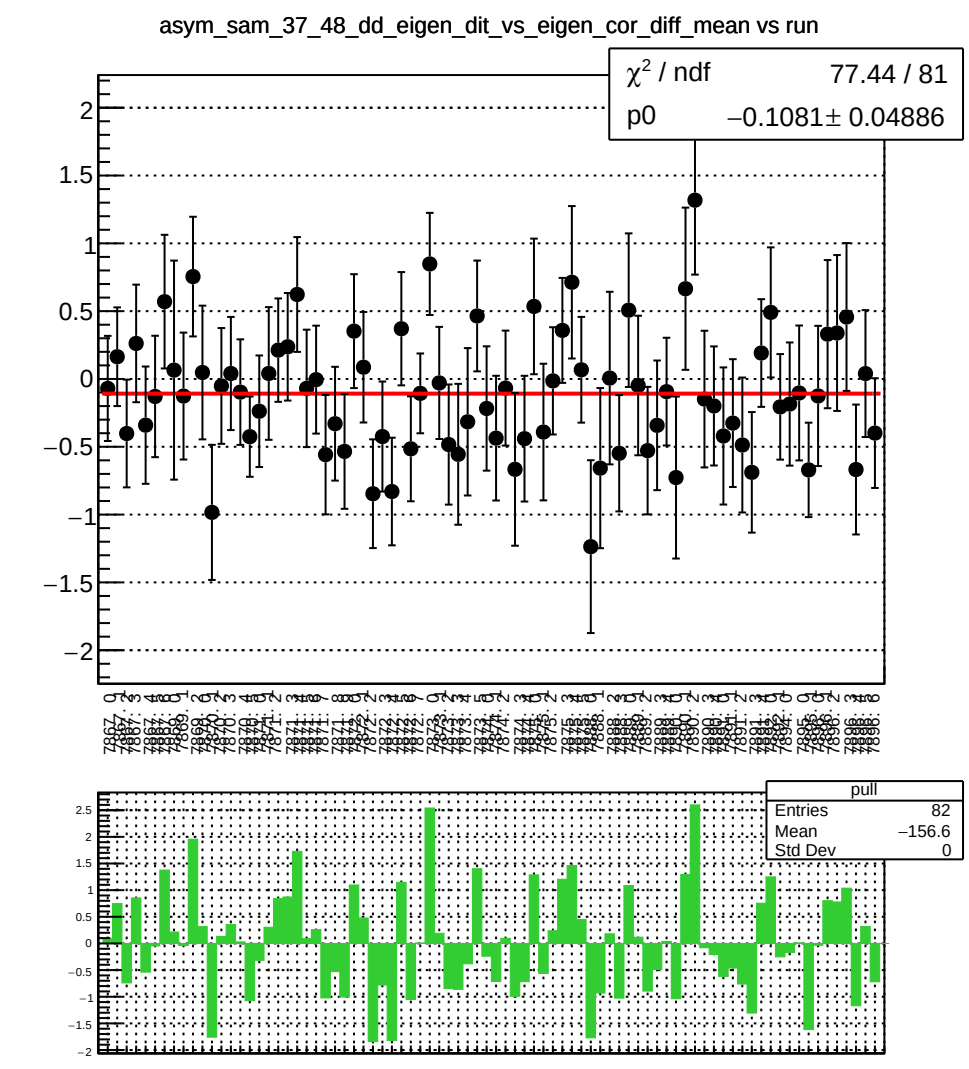

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.17 / 81
p0 −1.128e−06 ± 4.607e−06
pull
Entries 82
Mean −70.46
Std Dev 0

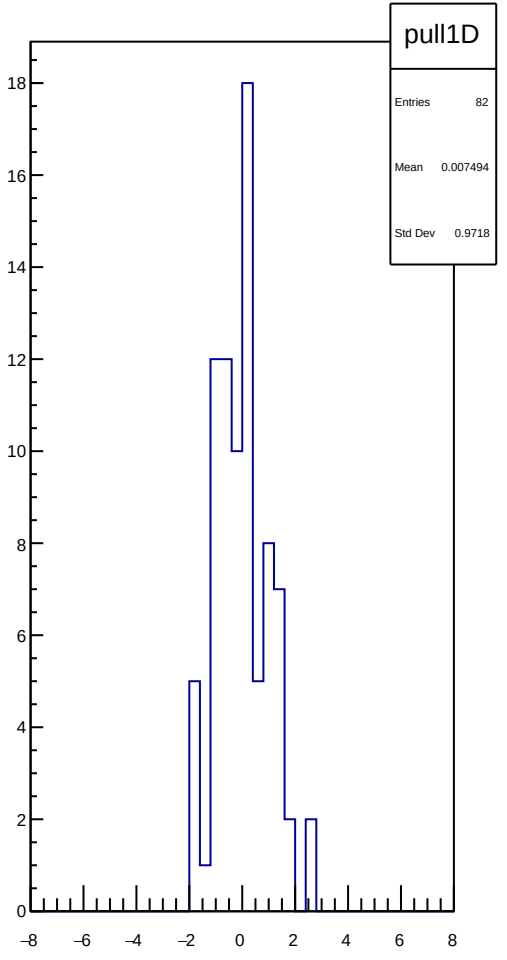

pull1D
Entries 82
Mean −0.009608
Std Dev 0.9381

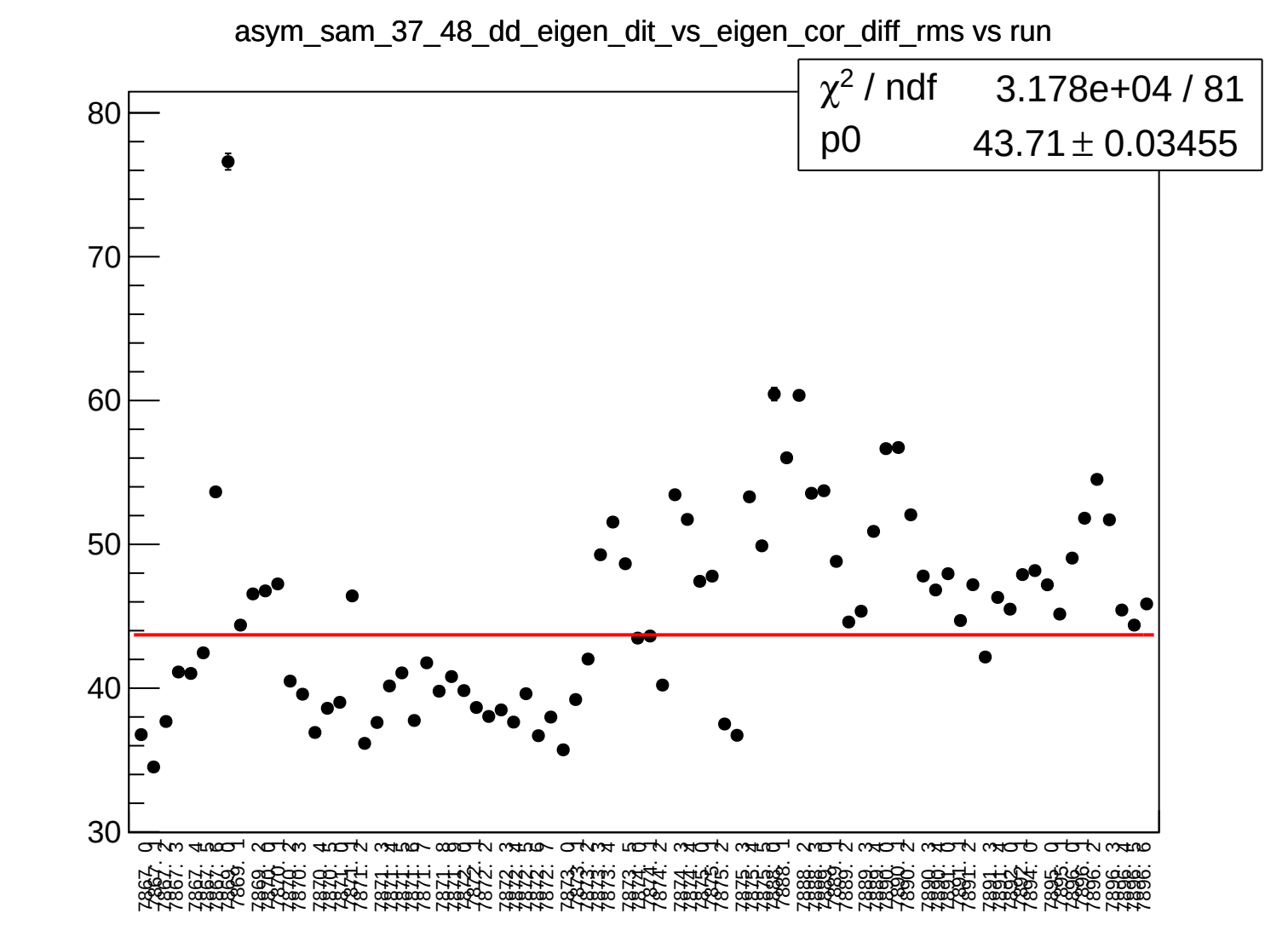

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.725e+04 / 81
p0 0.00414 ± 3.258e–06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

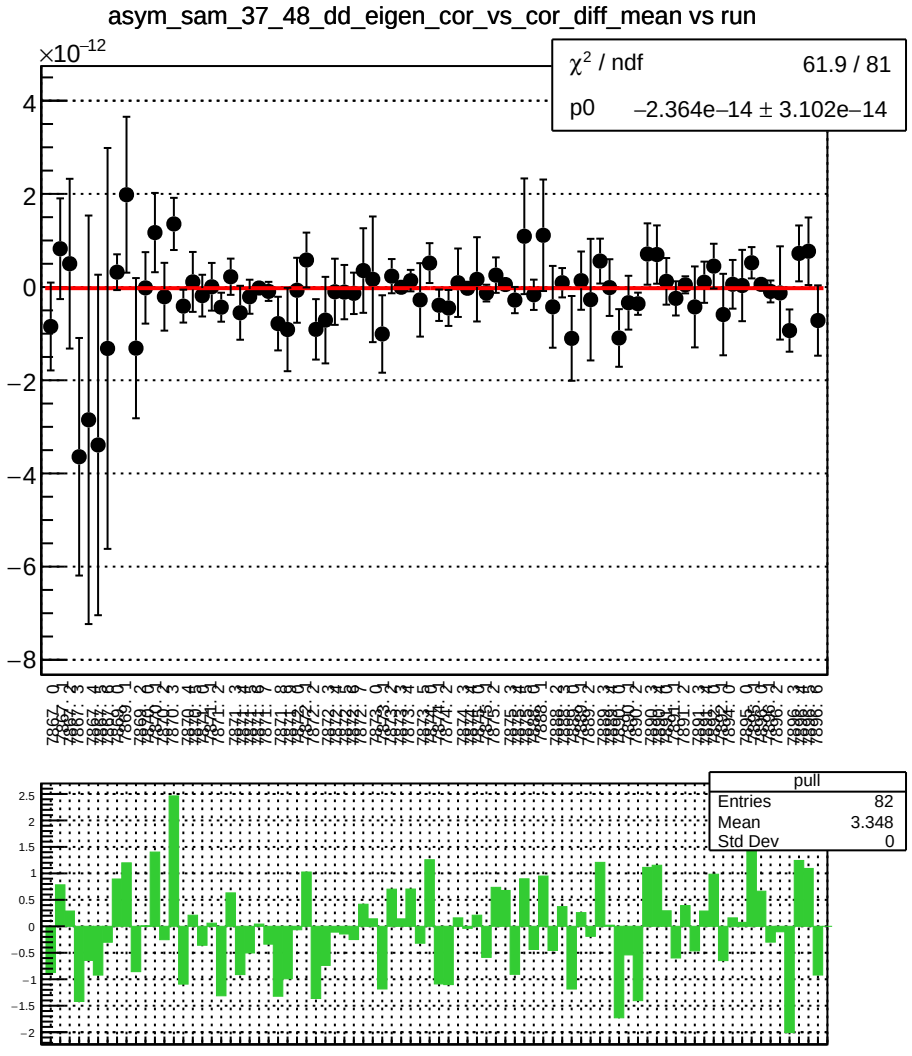

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.44 / 81
p0 −0.1081± 0.04886
pull
Entries 82
Mean −156.6
Std Dev 0
pull1D
Entries 82
Mean 0.007494
Std Dev 0.9718

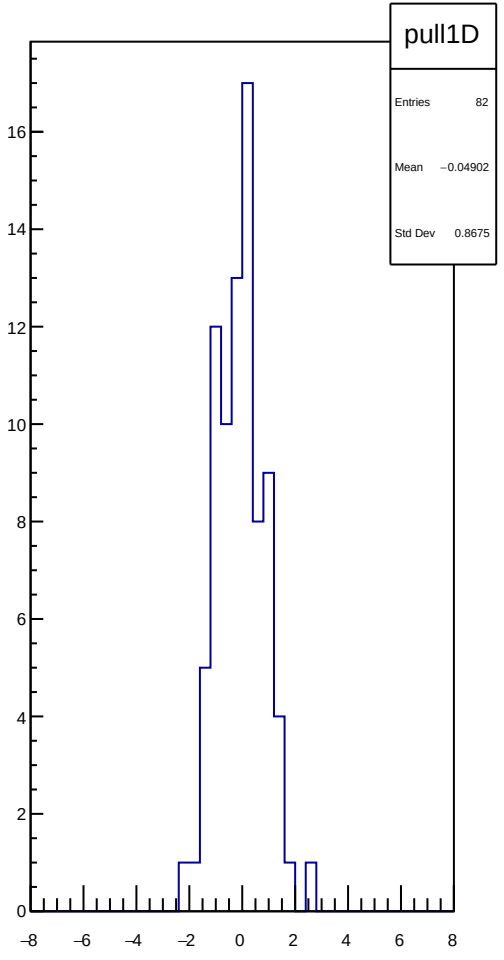

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.178e+04 / 81
p0 43.71 ± 0.03455
80
70
60
50
40
30

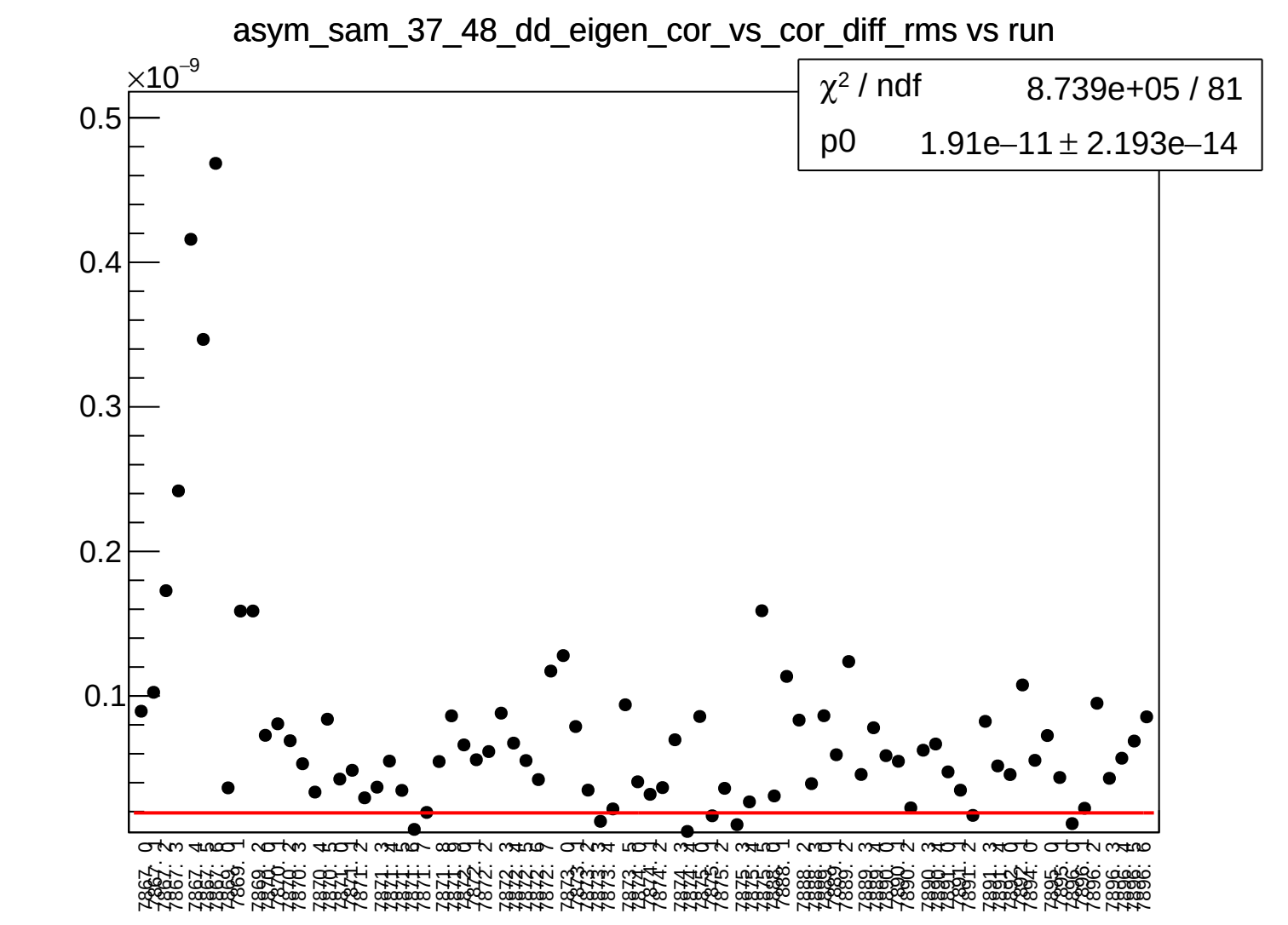

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.44 / 81
p0 −0.1081± 0.04886
pull
Entries 82
Mean −156.6
Std Dev 0

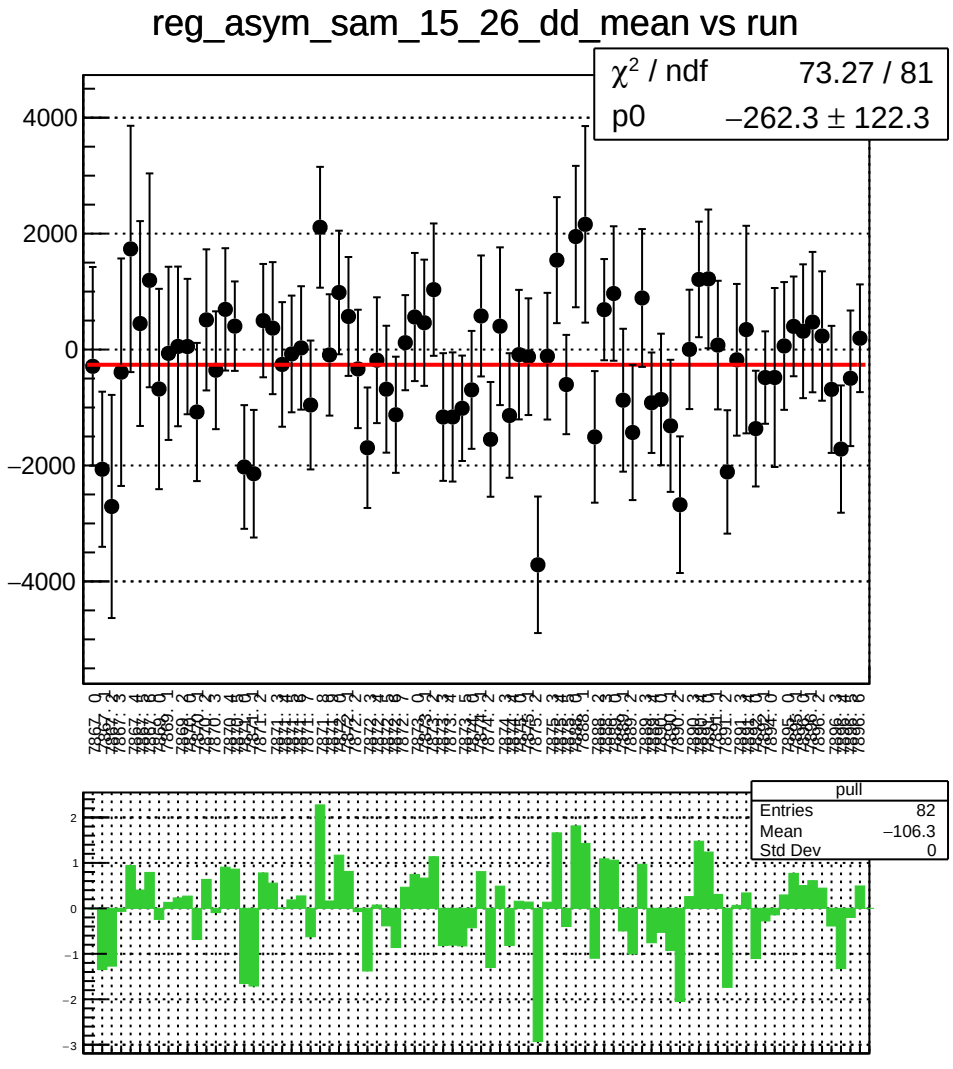

pull1D
Entries 82
Mean 0.007494
Std Dev 0.9718

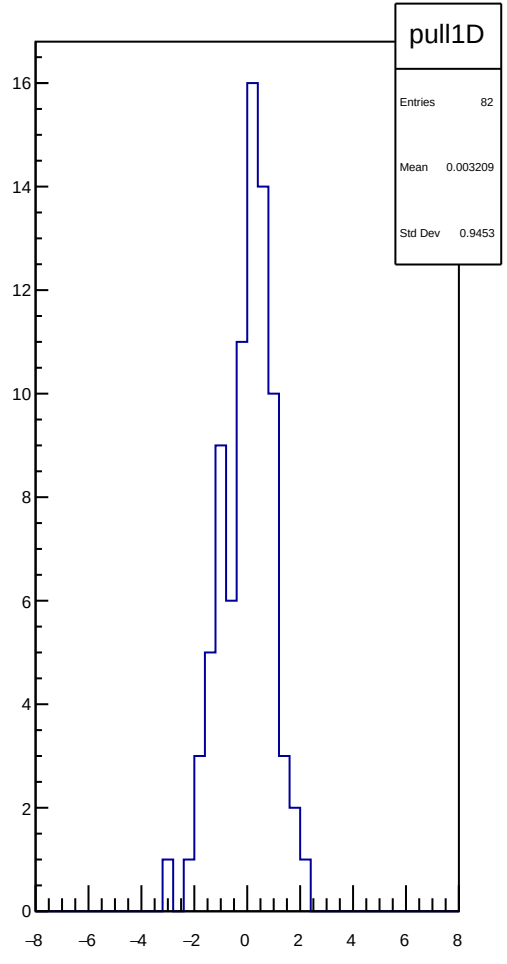

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.178e+04 / 81
p0 43.71 ± 0.03455
80
70
60
50
40
30

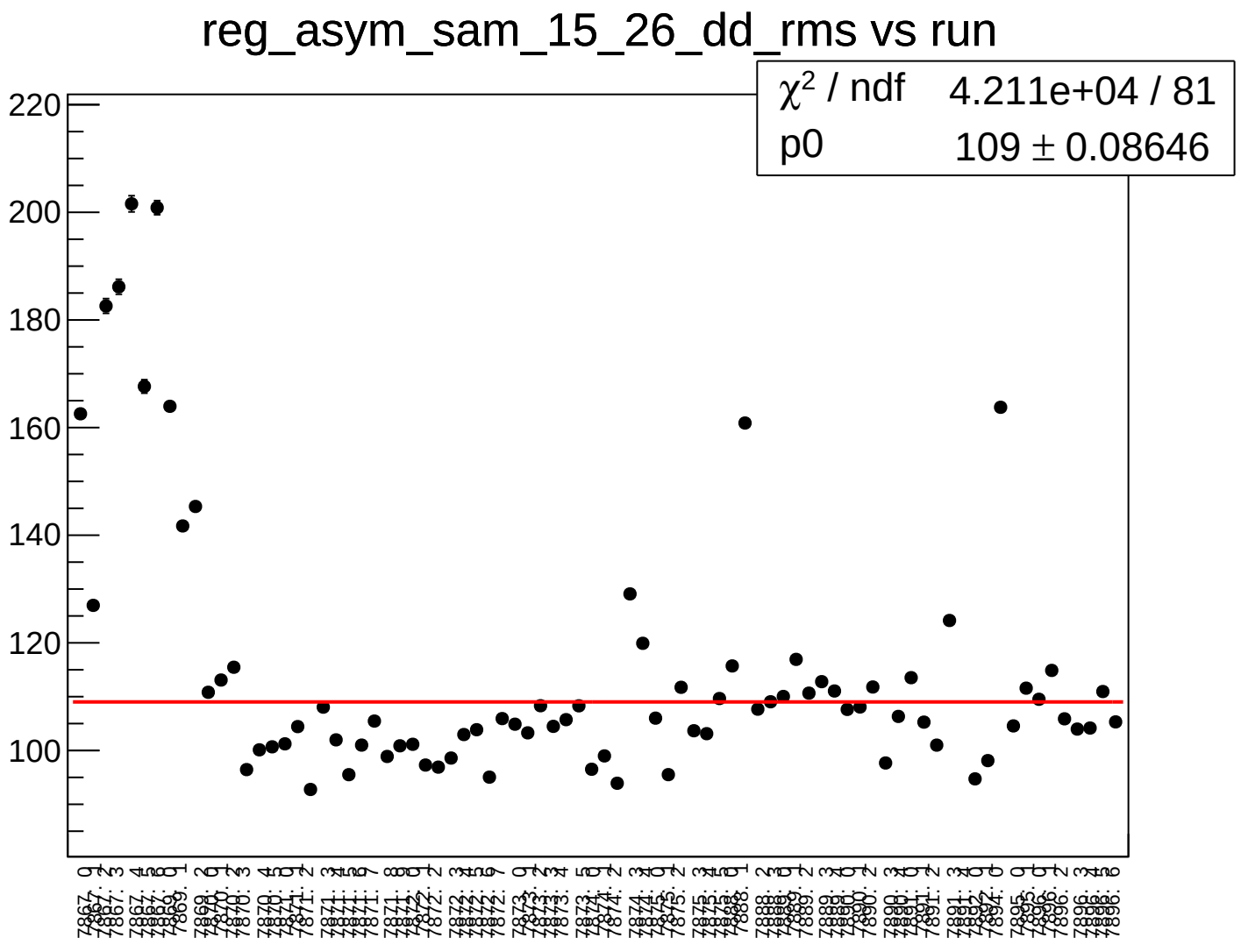

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.9 / 81
p0 −2.364e−14 ± 3.102e−14
pull
Entries 82
Mean 3.348
Std Dev 0

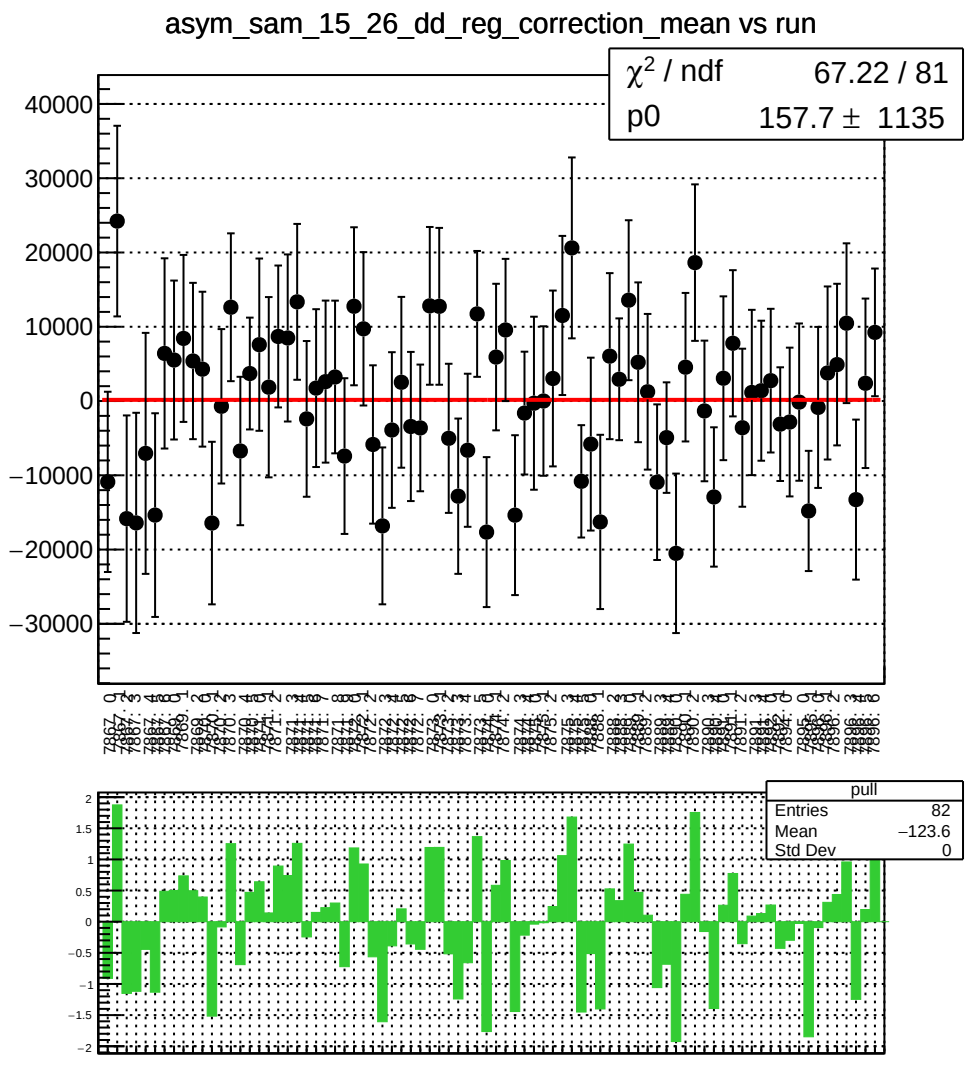

pull1D
Entries 82
Mean −0.04902
Std Dev 0.8675

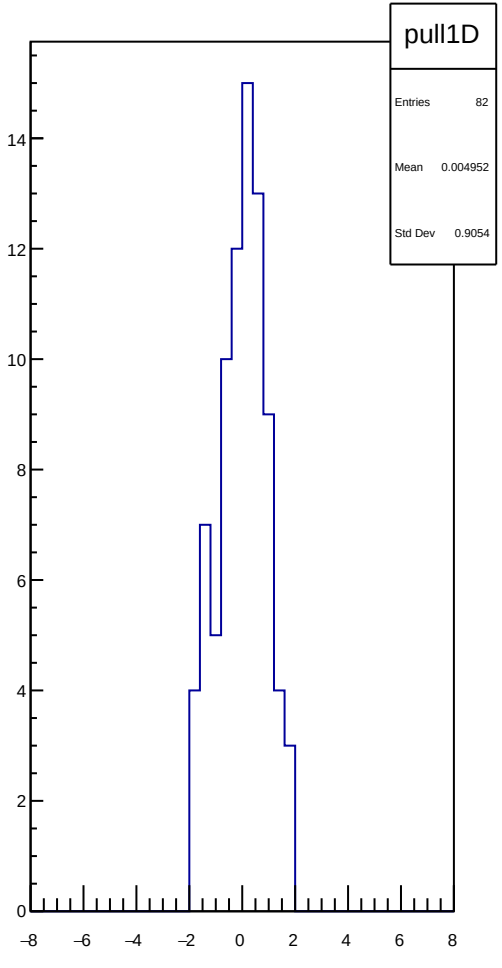

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.739e+05 / 81
p0 1.91e−11 ± 2.193e−14
0.5
0.4
0.3
0.2
0.1

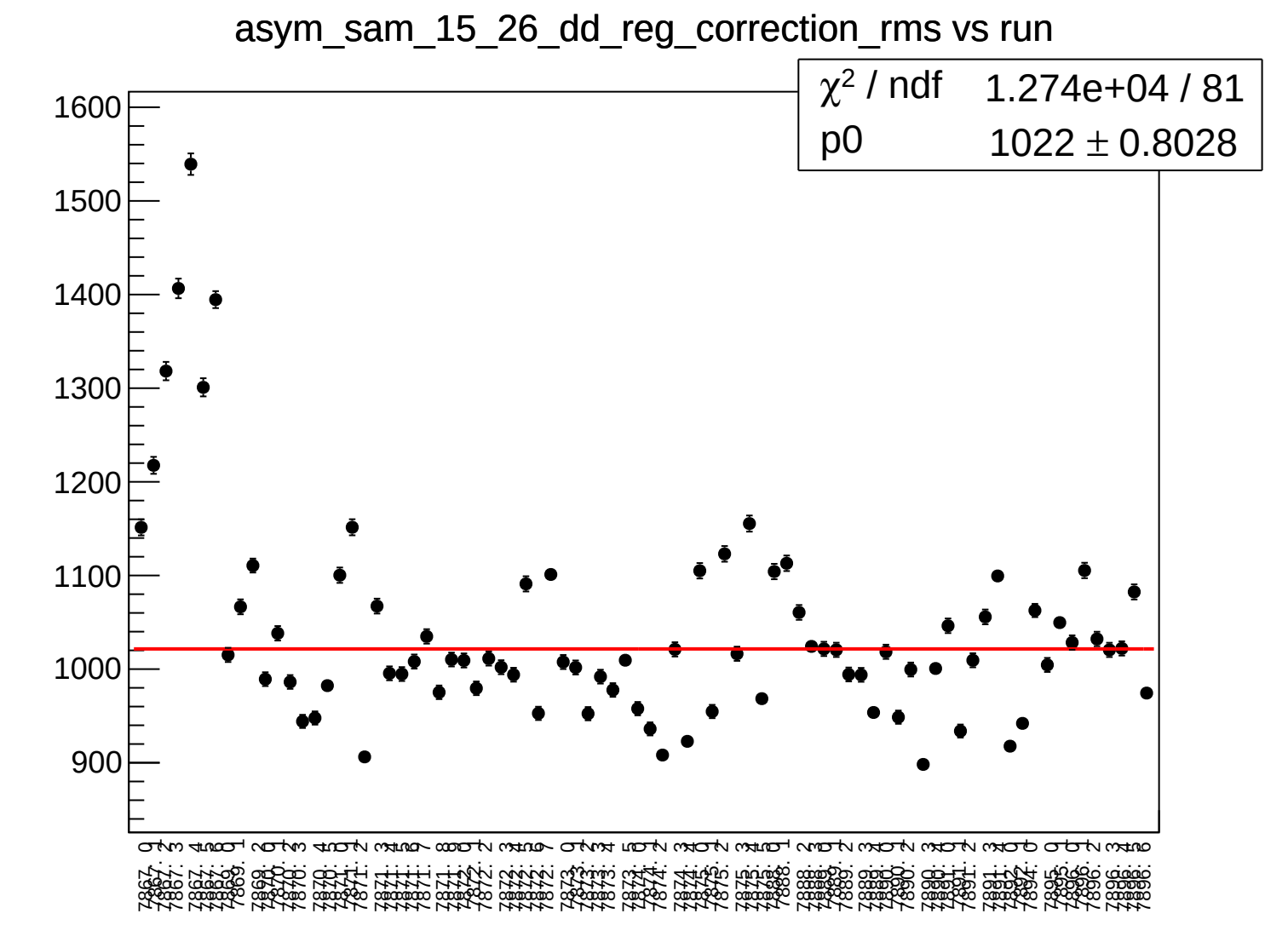

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.27 / 81
p0 −262.3 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −106.3
Std Dev 0
2
1
0
−1
−2
−3

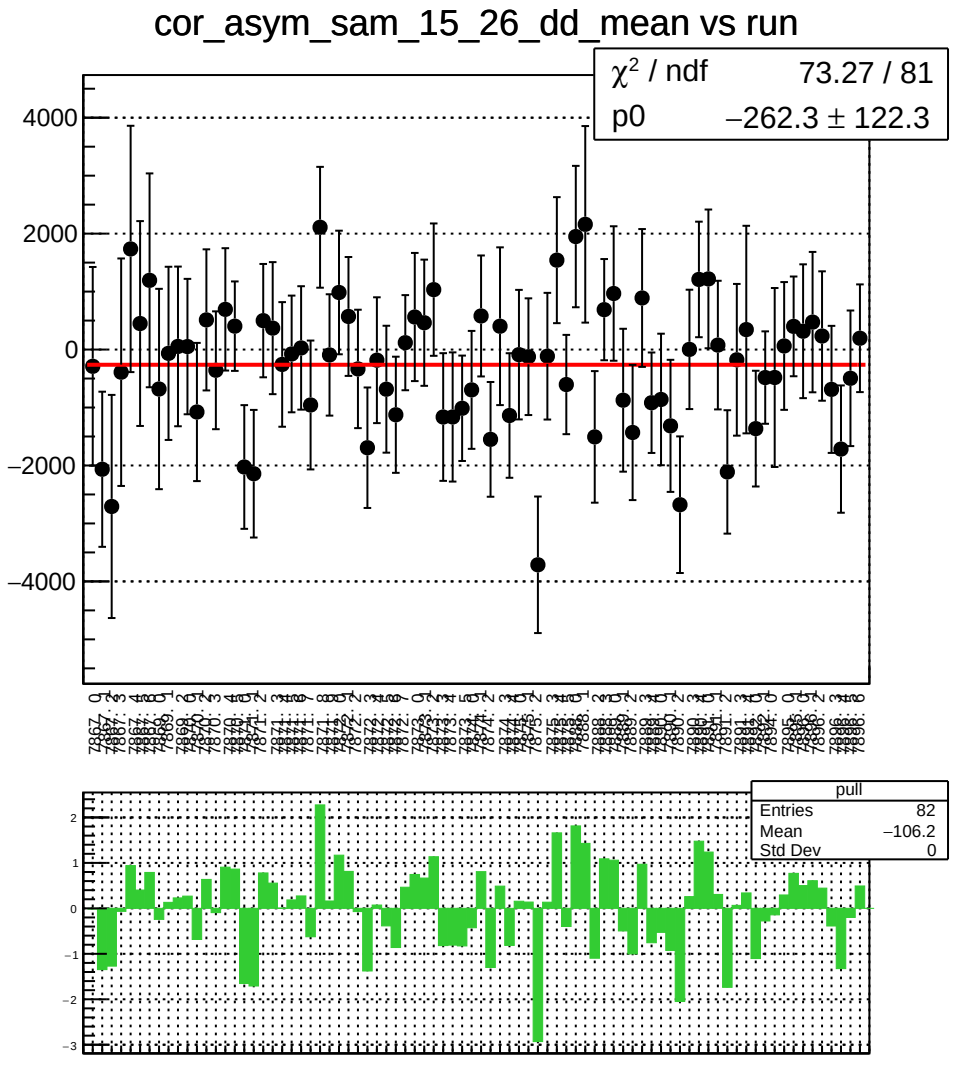

pull1D
Entries 82
Mean 0.003209
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

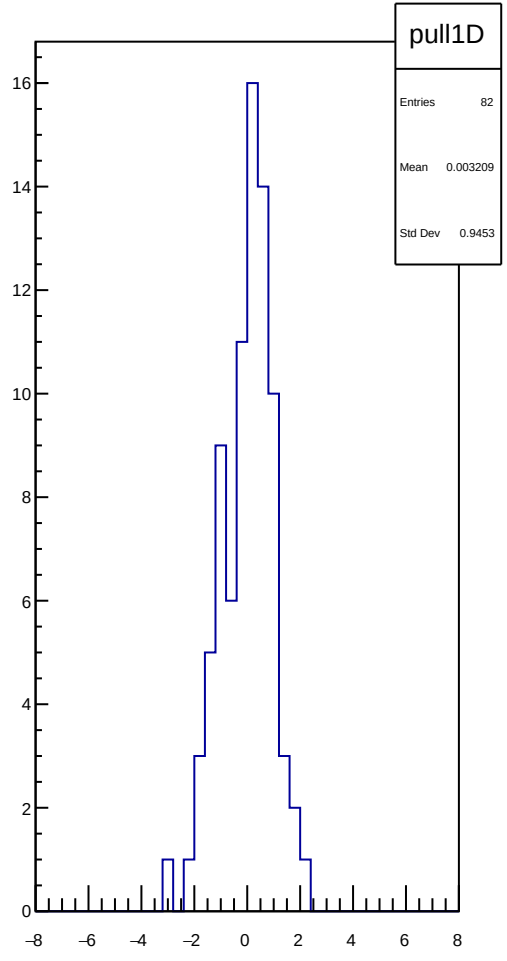

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.211e+04 / 81
p0 109 ± 0.08646
220
200
180
160
140
120
100

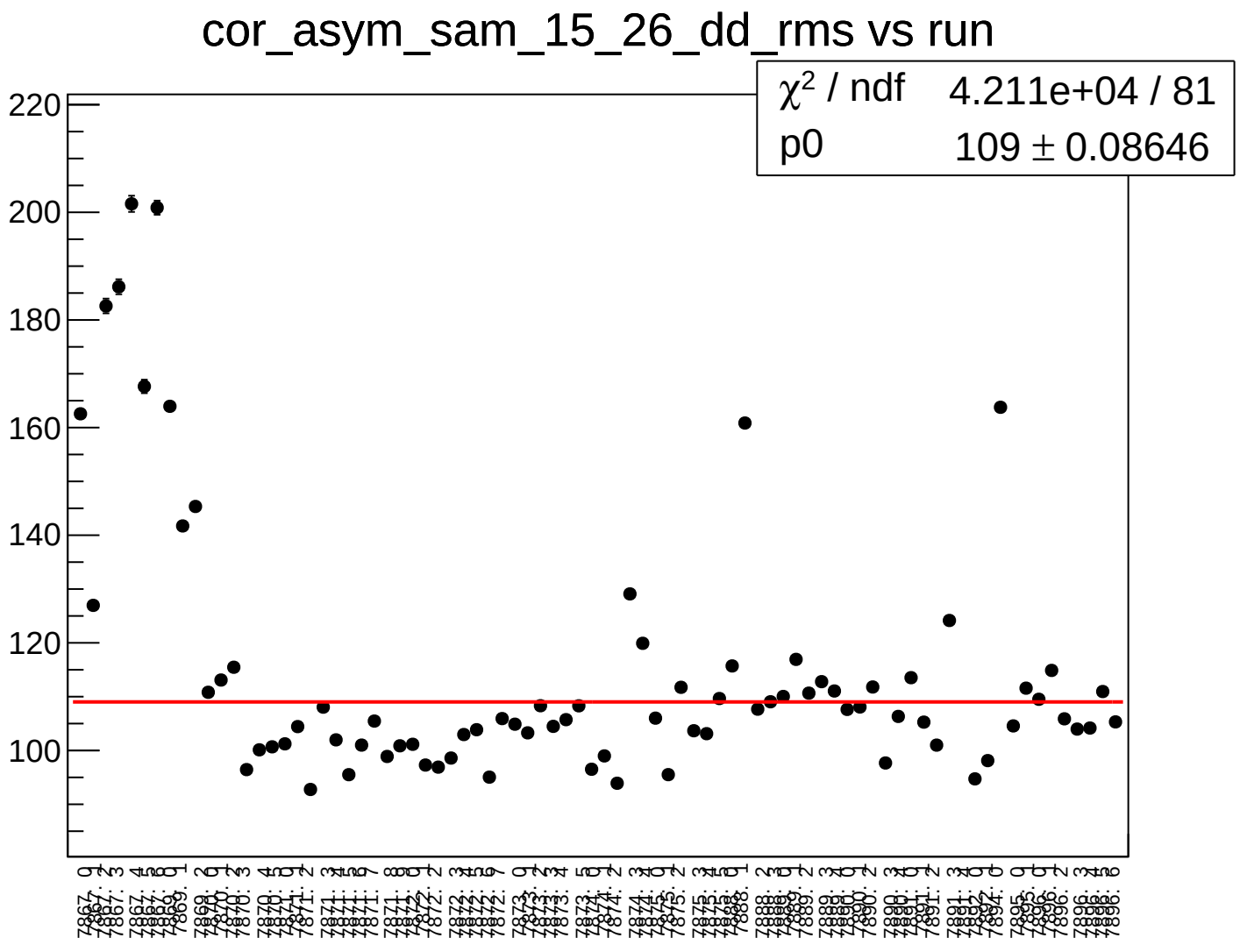

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 67.22 / 81
p0 157.7 ± 1135
pull
Entries 82
Mean −123.6
Std Dev 0

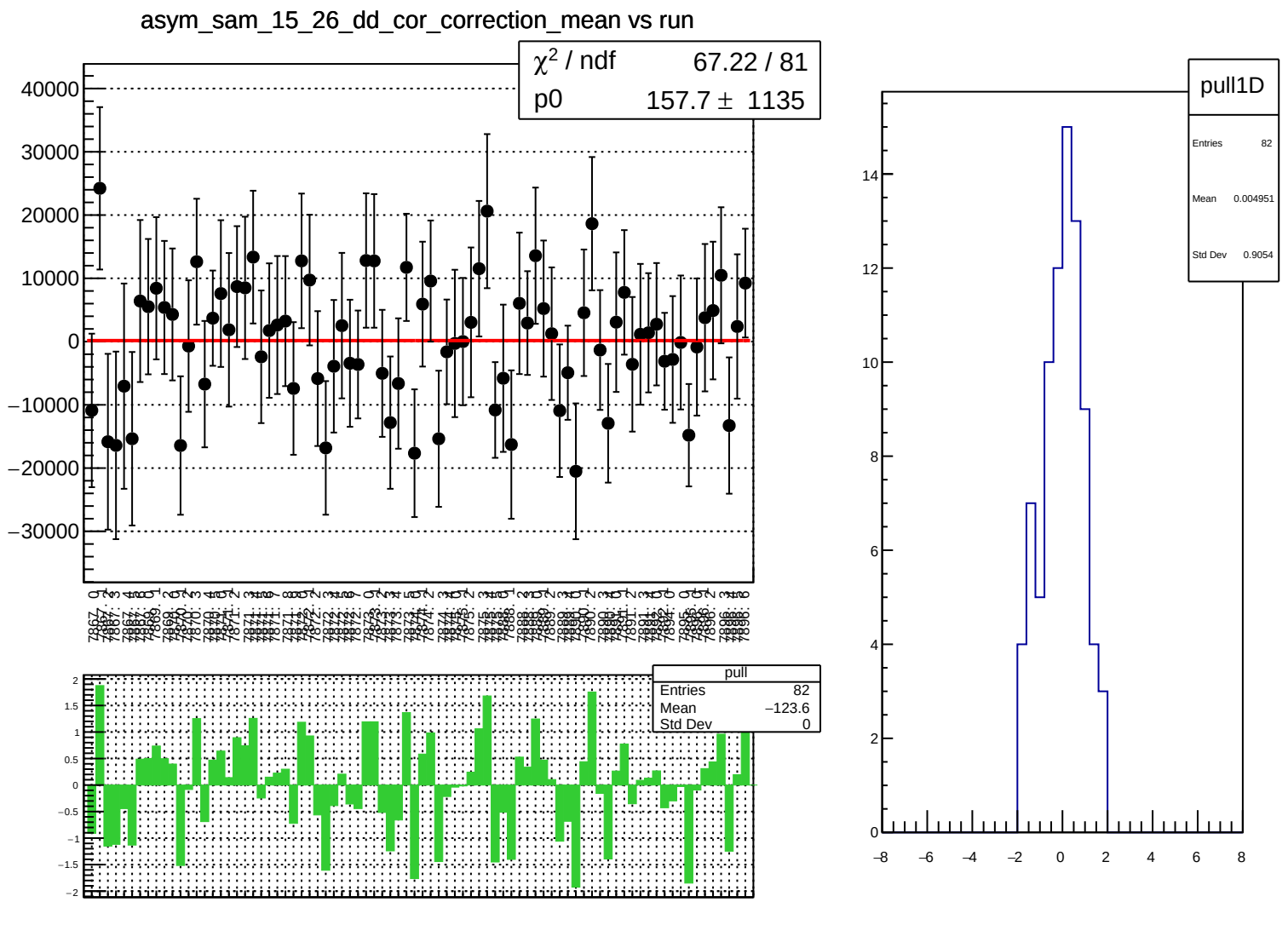

pull1D
Entries 82
Mean 0.004952
Std Dev 0.9054

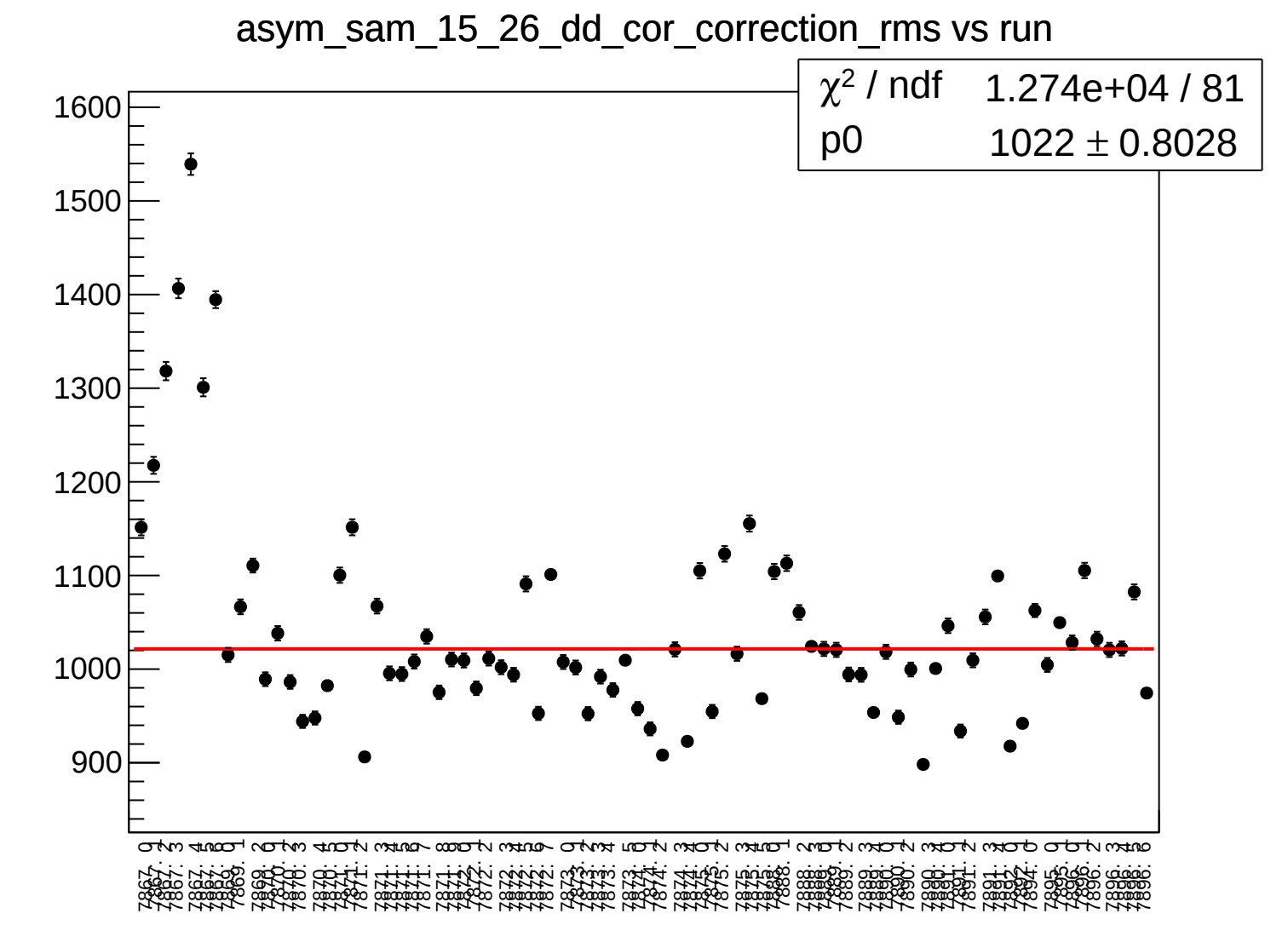

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.274e+04 / 81
p0 1022 ± 0.8028
1600
1500
1400
1300
1200
1100
1000
900

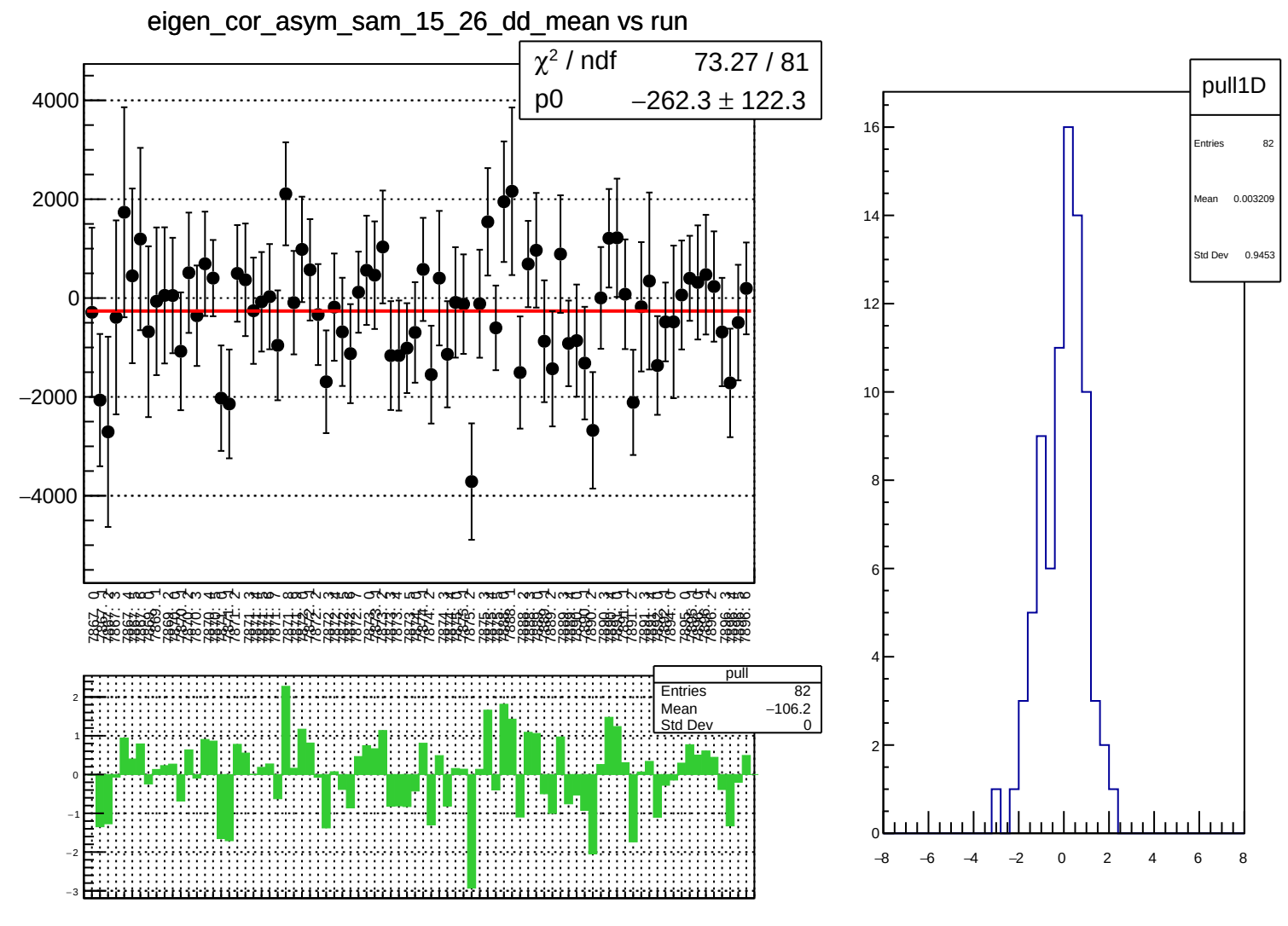

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.27 / 81
p0 −262.3 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −106.2
Std Dev 0
2
1
0
−1
−2
−3

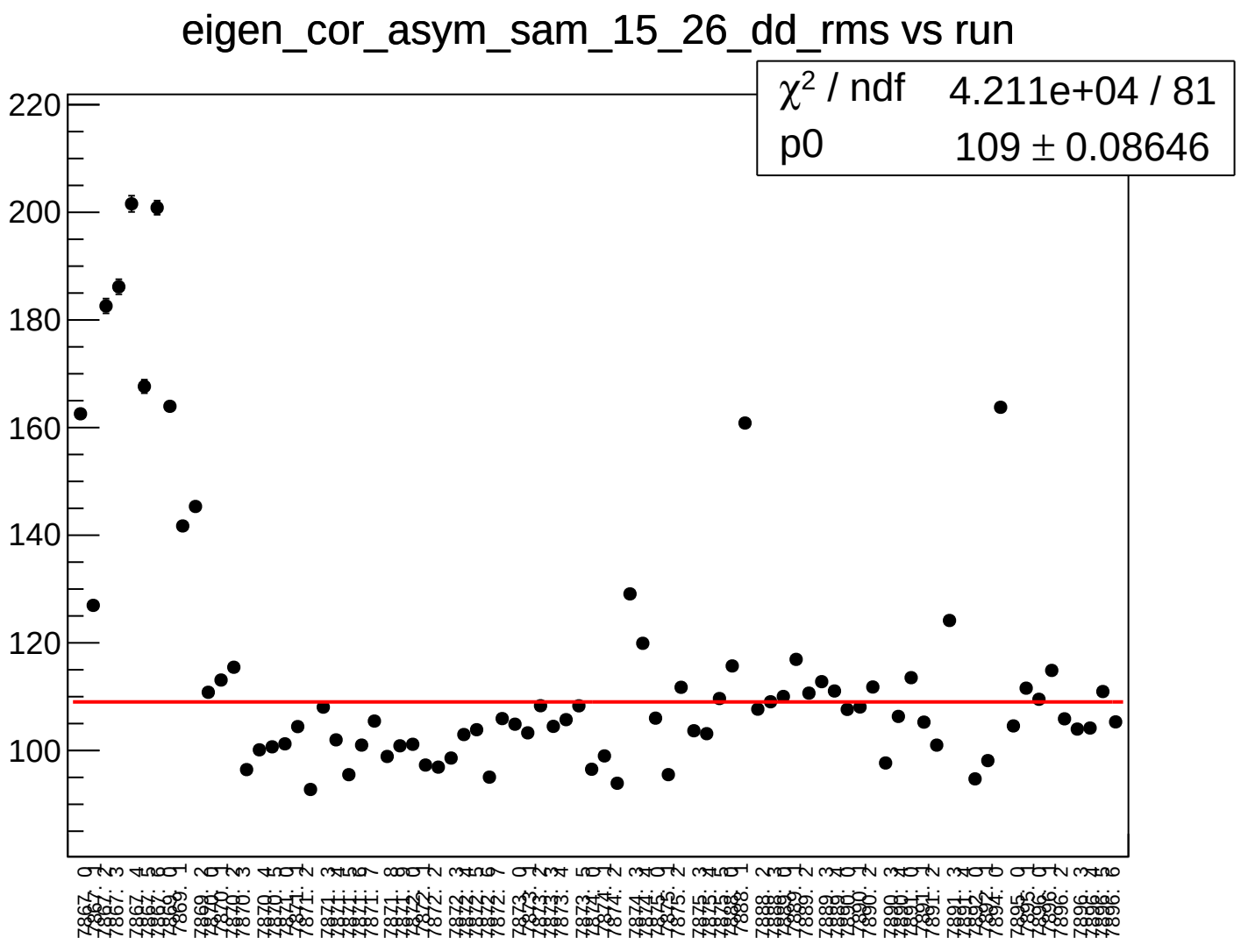

pull1D
Entries 82
Mean 0.003209
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

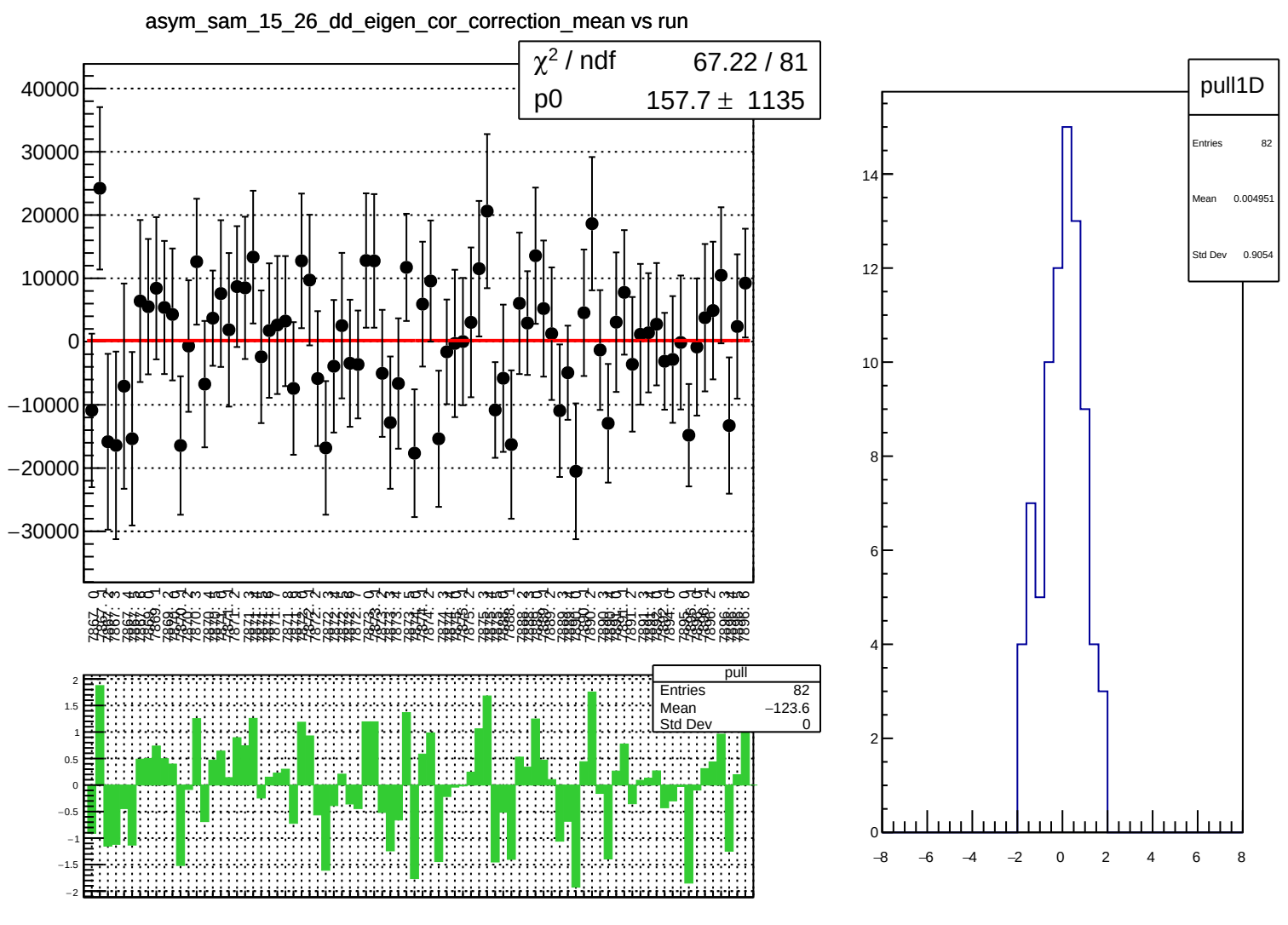

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.211e+04 / 81
p0 109 ± 0.08646
220
200
180
160
140
120
100

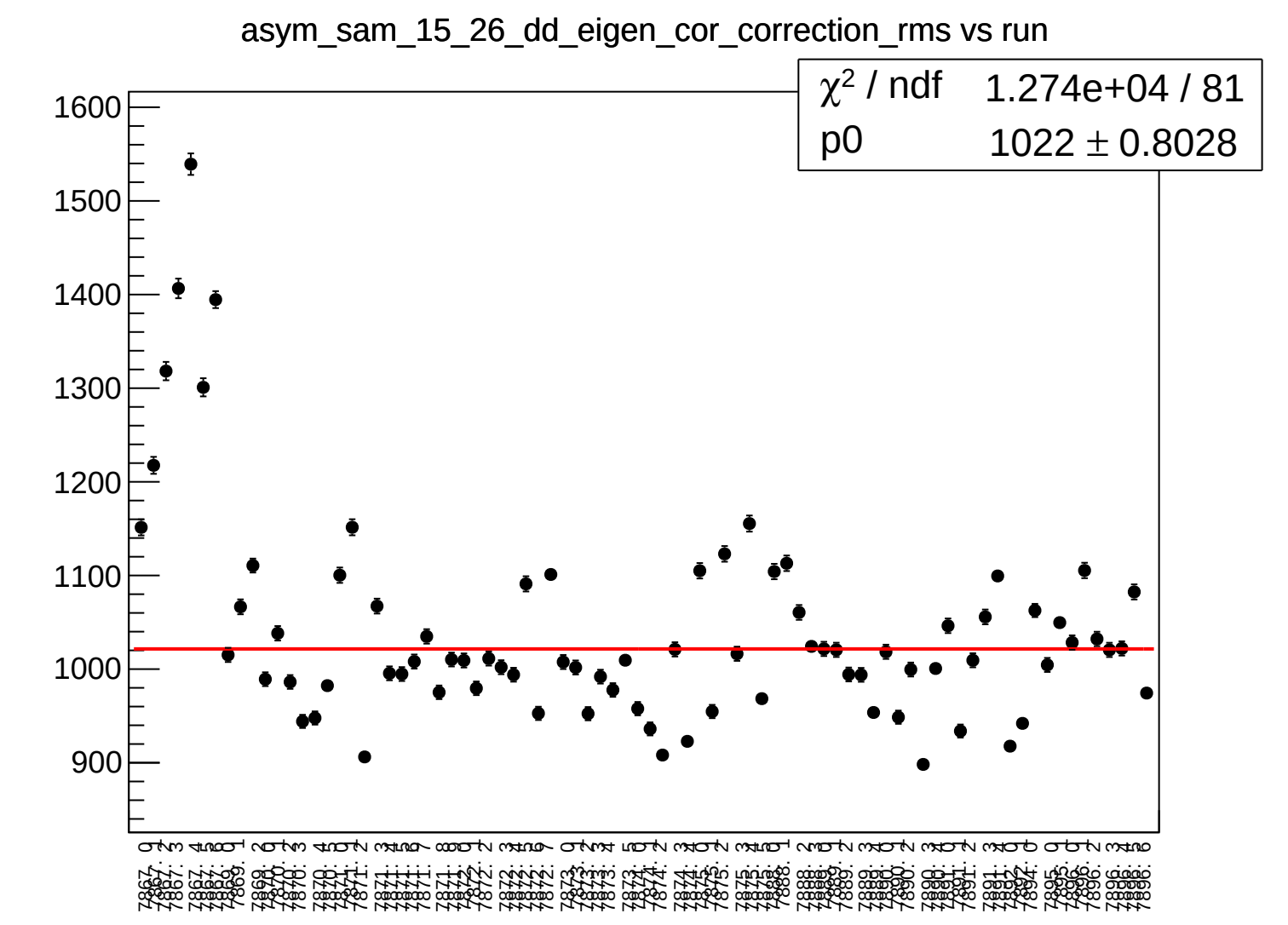

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 67.22 / 81
p0 157.7 ± 1135
pull
Entries 82
Mean −123.6
Std Dev 0
pull1D
Entries 82
Mean 0.004951
Std Dev 0.9054

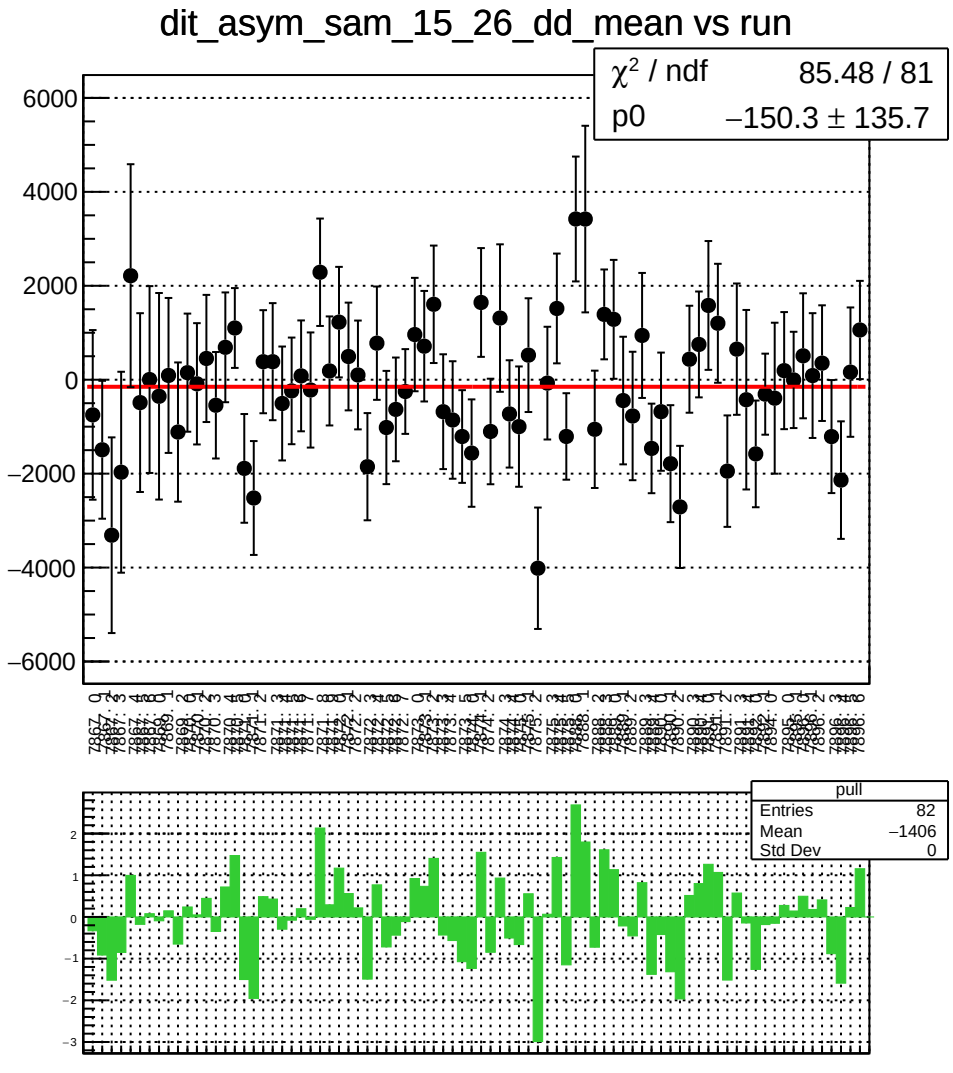

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.274e+04 / 81
p0 1022 ± 0.8028
1600
1500
1400
1300
1200
1100
1000
900

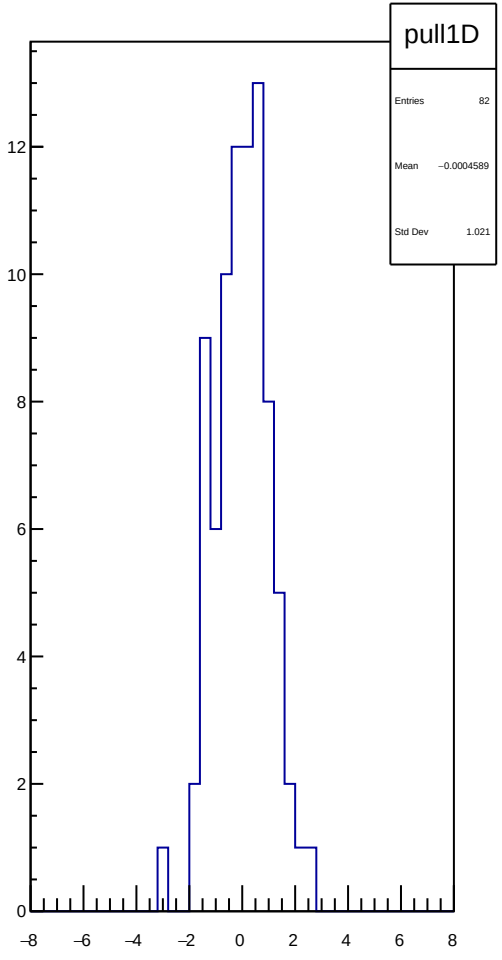

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.27 / 81
p0 −262.3 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −106.2
Std Dev 0
pull1D
Entries 82
Mean 0.003209
Std Dev 0.9453

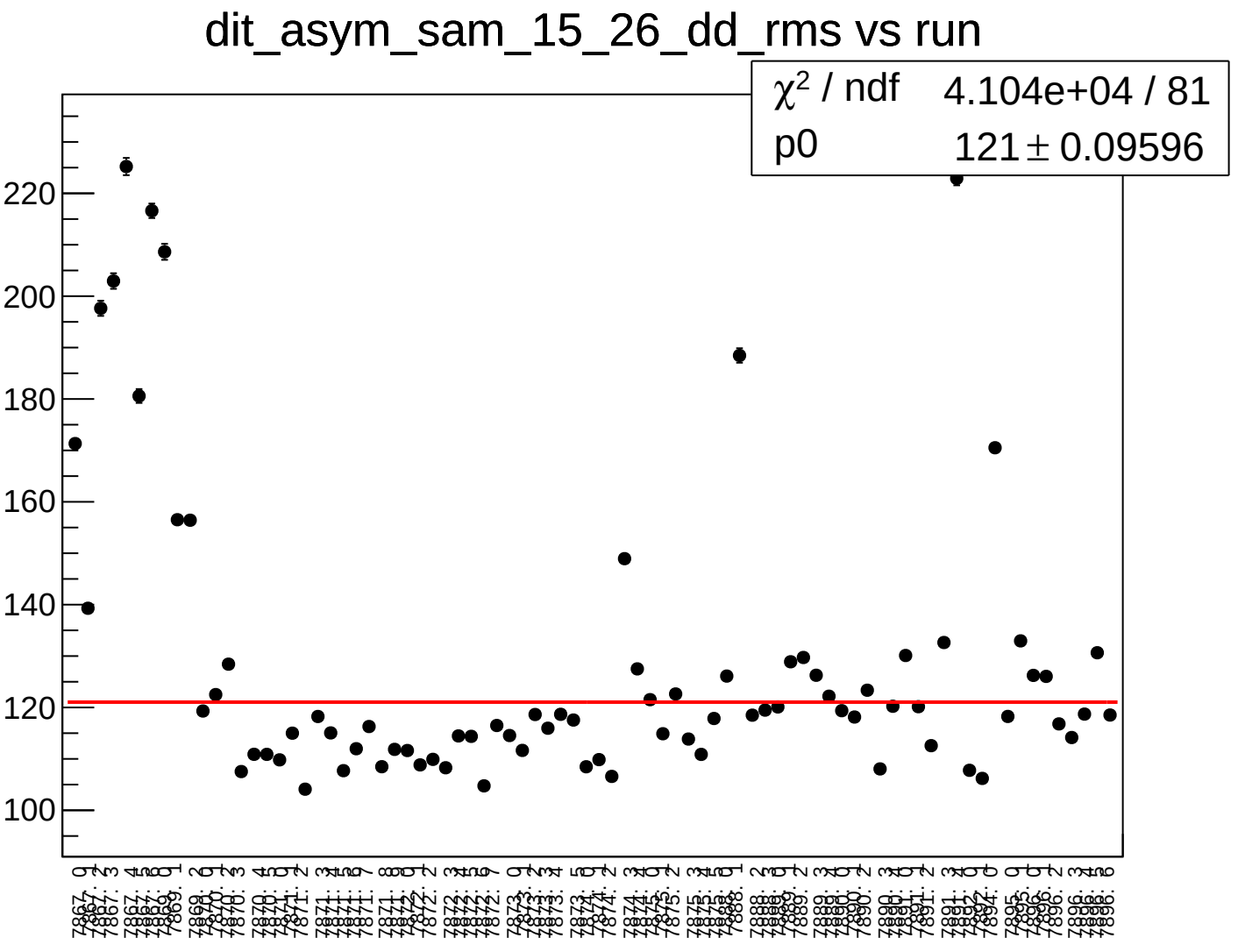

eigen_cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.211e+04 / 81
p0 109 ± 0.08646
220
200
180
160
140
120
100

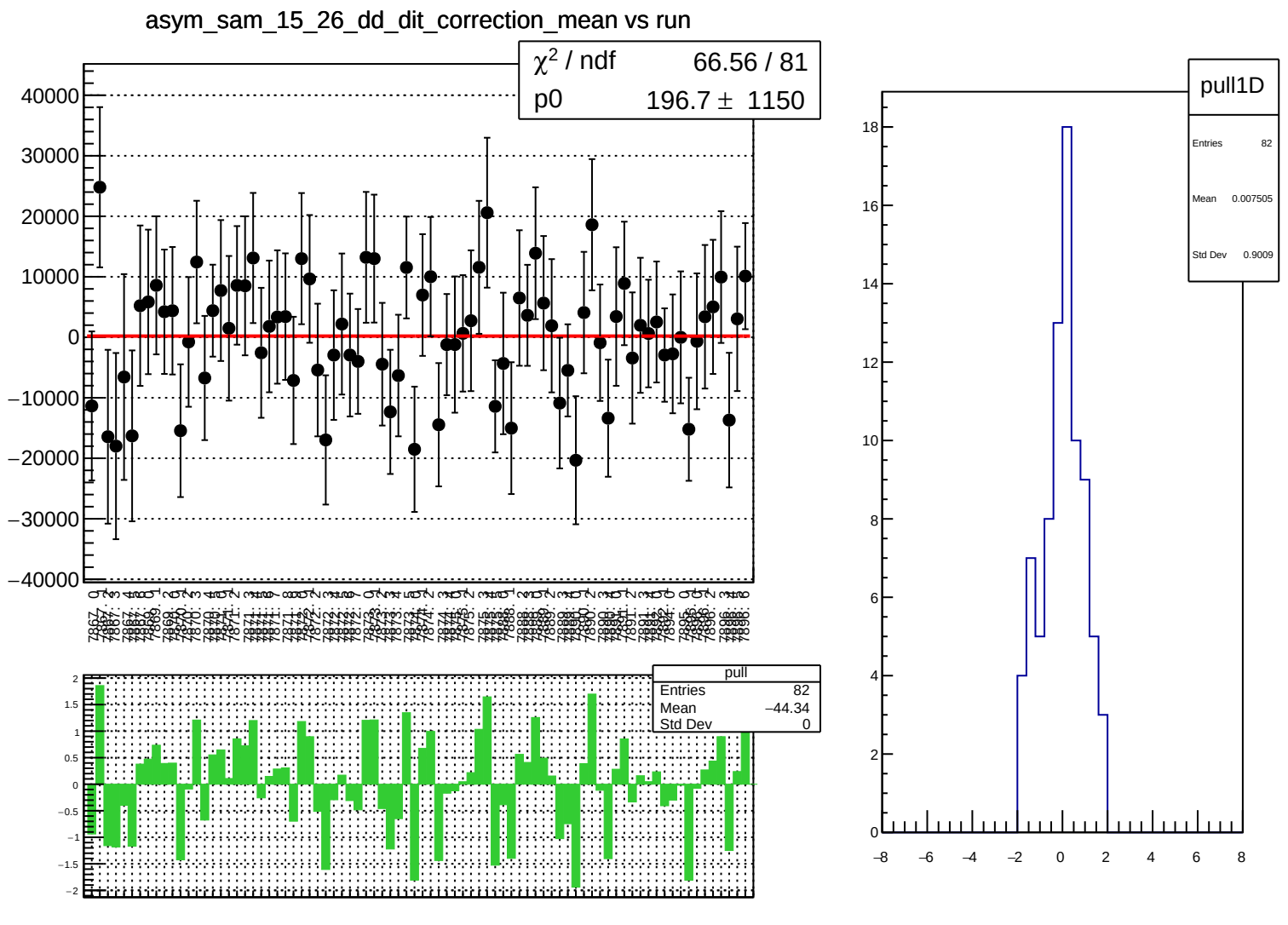

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.22 / 81
p0 157.7 ± 1135
pull
Entries 82
Mean −123.6
Std Dev 0
pull1D
Entries 82
Mean 0.004951
Std Dev 0.9054

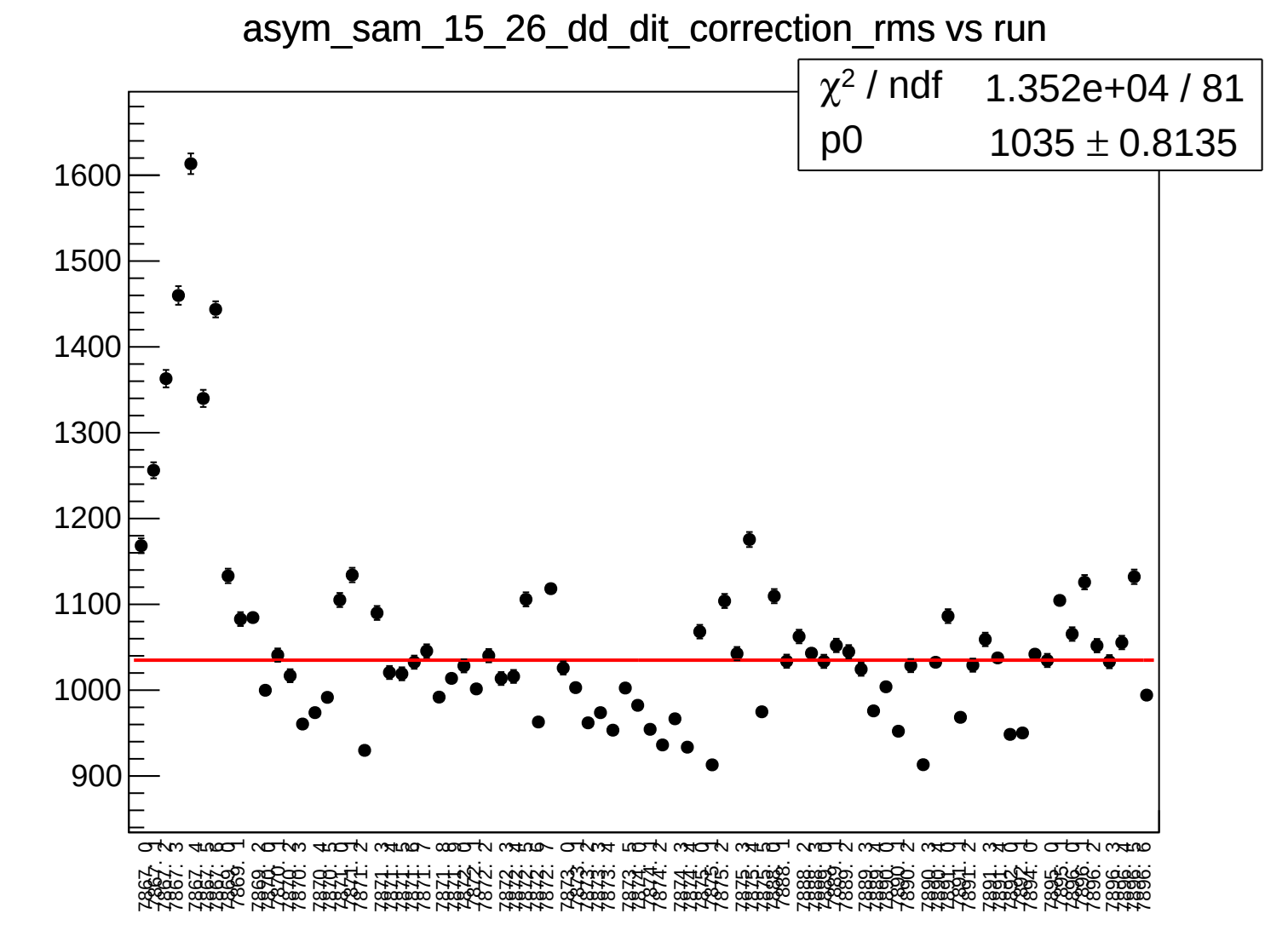

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.274e+04 / 81
p0 1022 ± 0.8028
1600
1500
1400
1300
1200
1100
1000
900

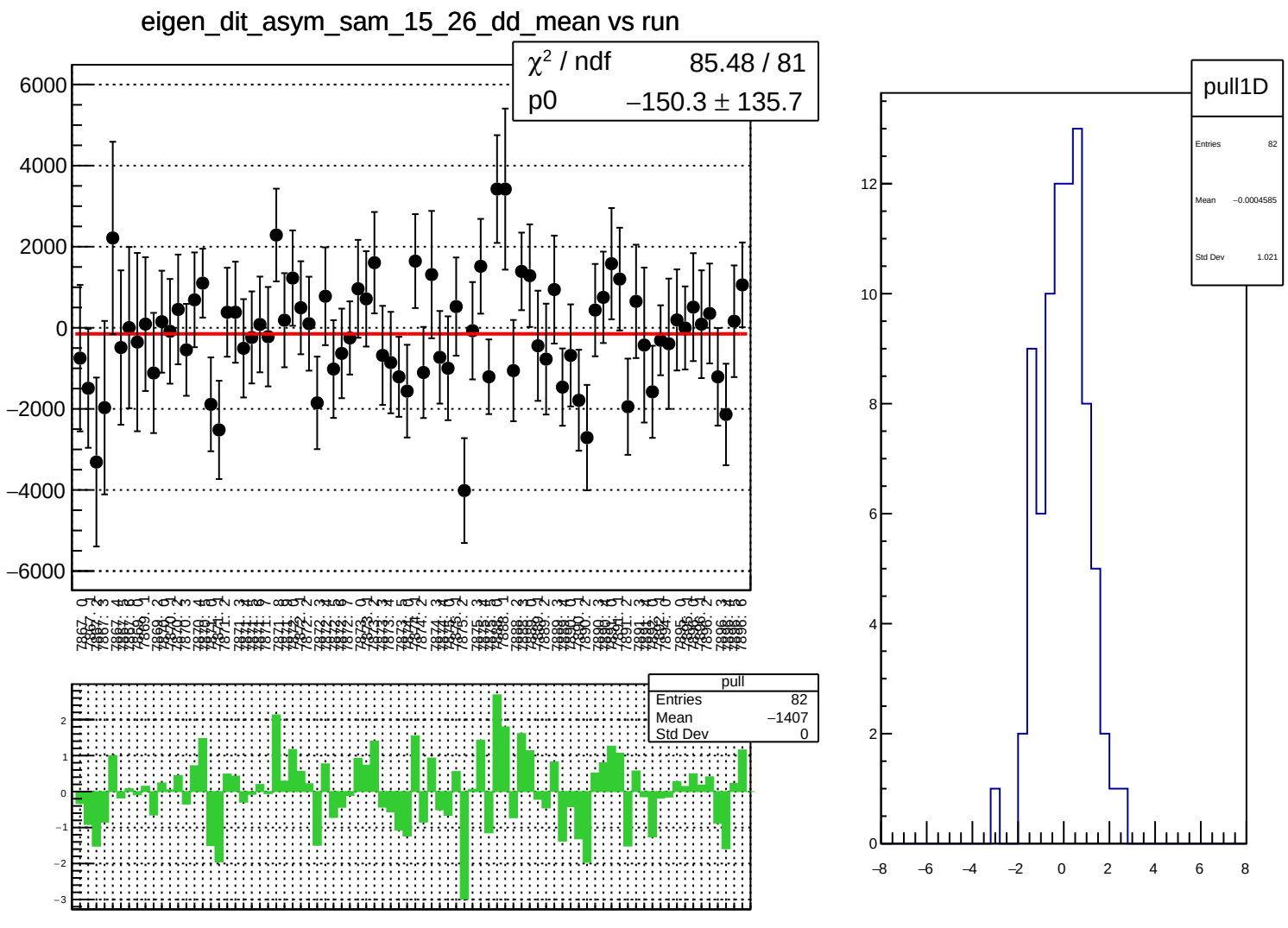

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 85.48 / 81
p0 −150.3 ± 135.7
pull
Entries 82
Mean −1406
Std Dev 0

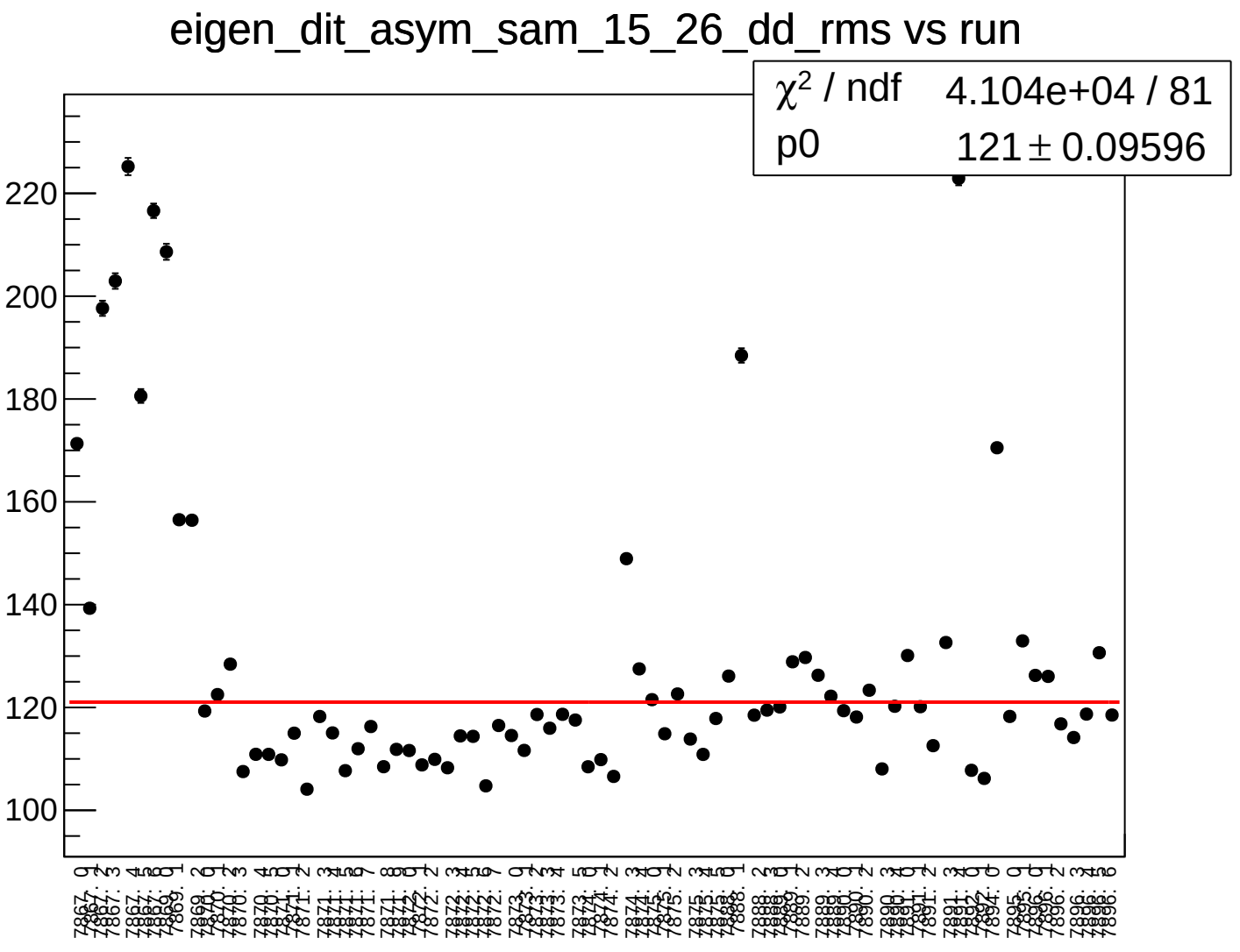

pull1D
Entries 82
Mean −0.0004589
Std Dev 1.021

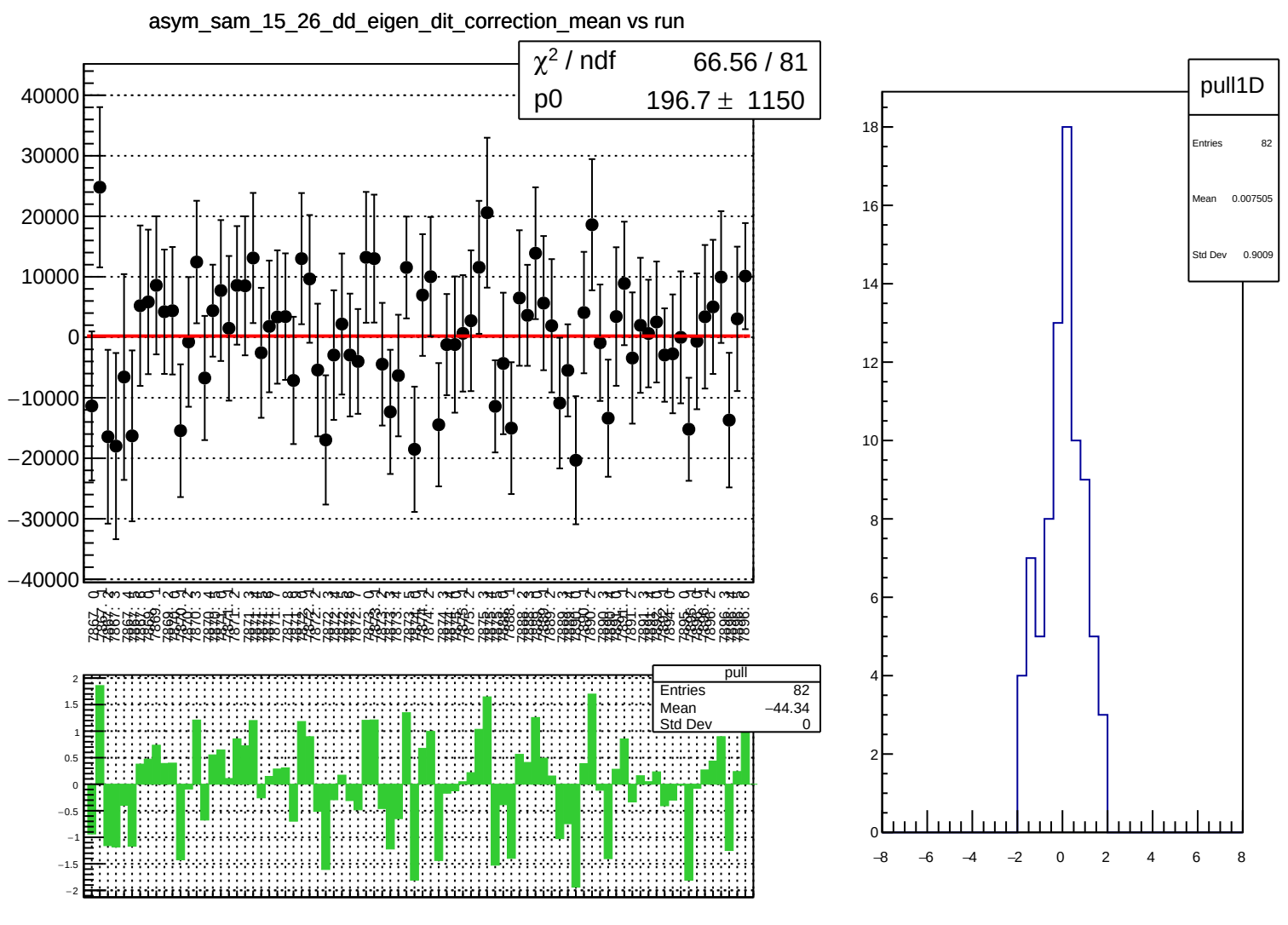

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.104e+04 / 81
p0 121 ± 0.09596
220
200
180
160
140
120
100

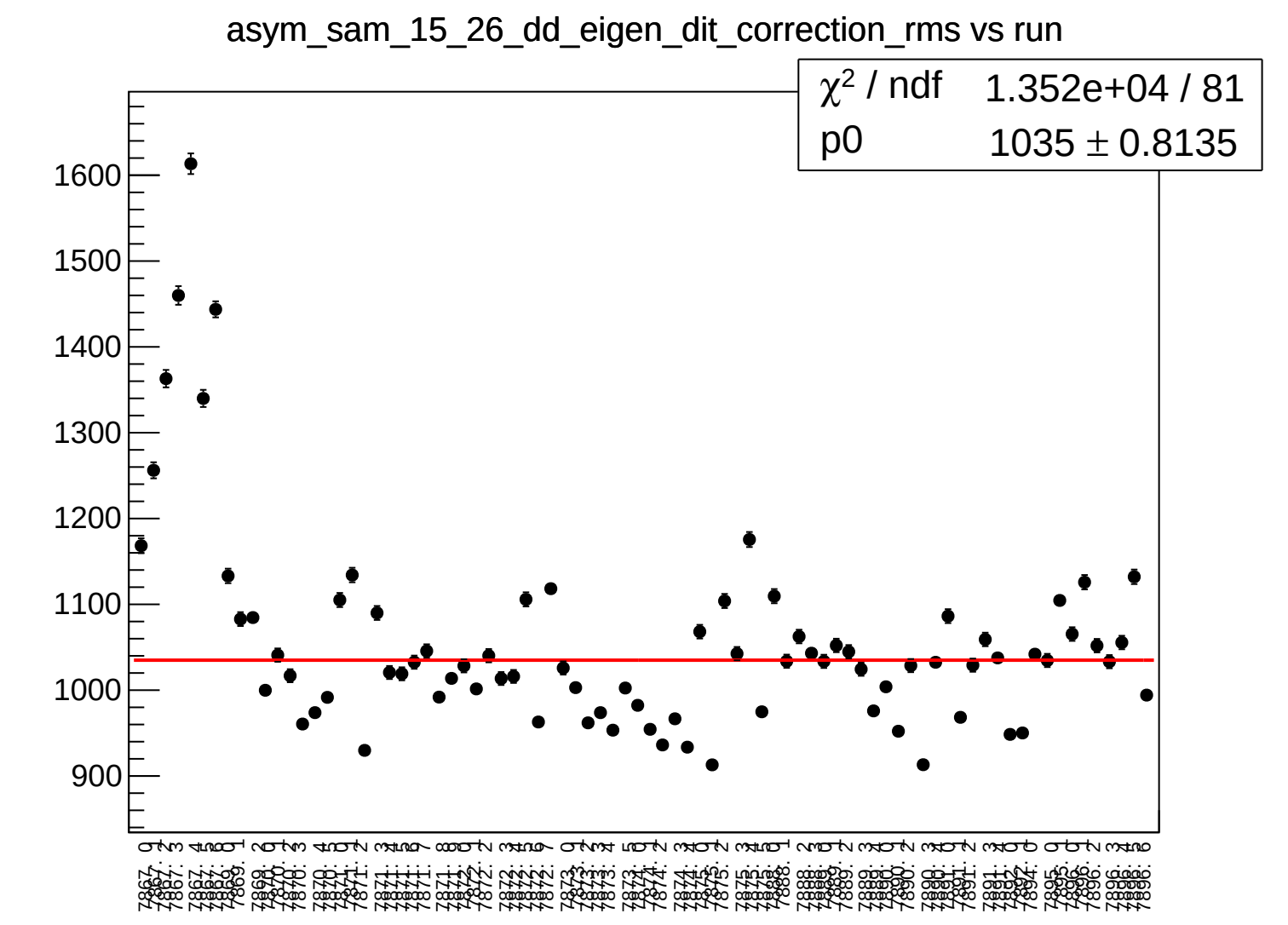

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 66.56 / 81
p0 196.7 ± 1150
pull
Entries 82
Mean −44.34
Std Dev 0
pull1D
Entries 82
Mean 0.007505
Std Dev 0.9009

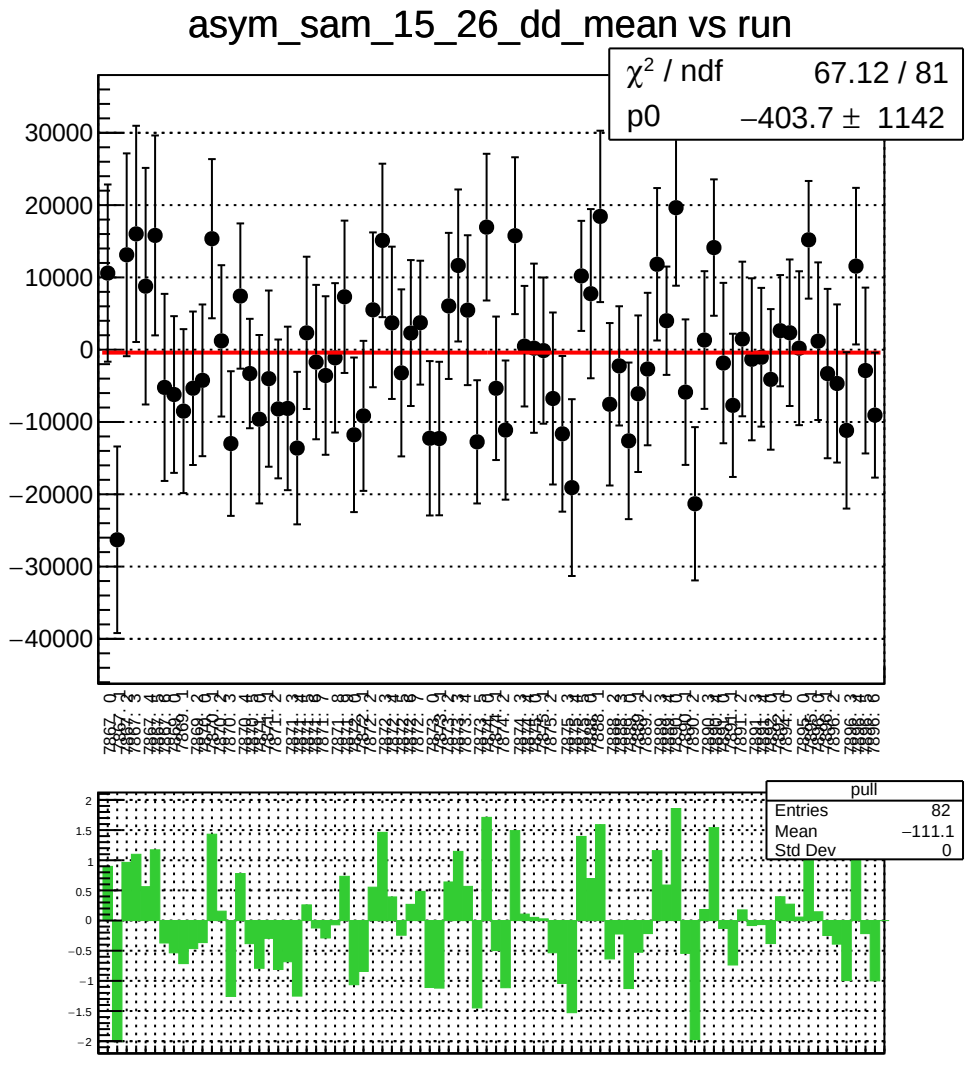

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.352e+04 / 81
p0 1035 ± 0.8135
1600
1500
1400
1300
1200
1100
1000
900

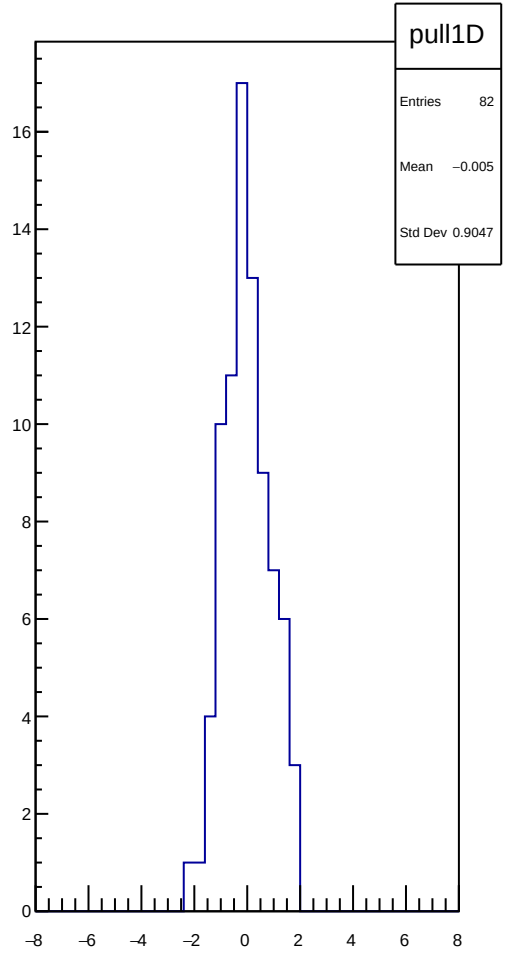

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 85.48 / 81
p0 −150.3 ± 135.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1407
Std Dev 0
pull1D
Entries 82
Mean −0.0004585
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

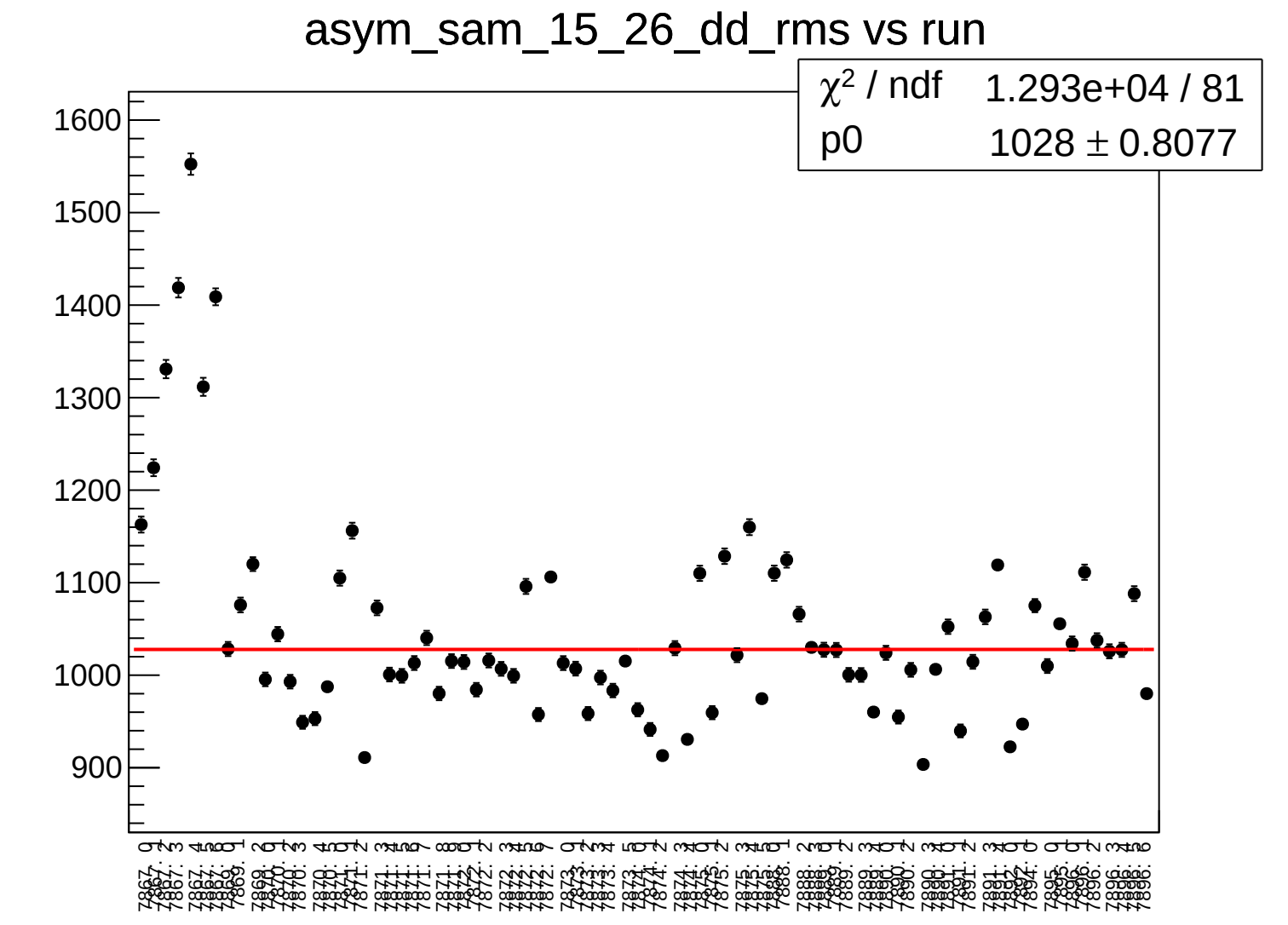

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 4.104e+04 / 81
p0 121 ± 0.09596
220
200
180
160
140
120
100

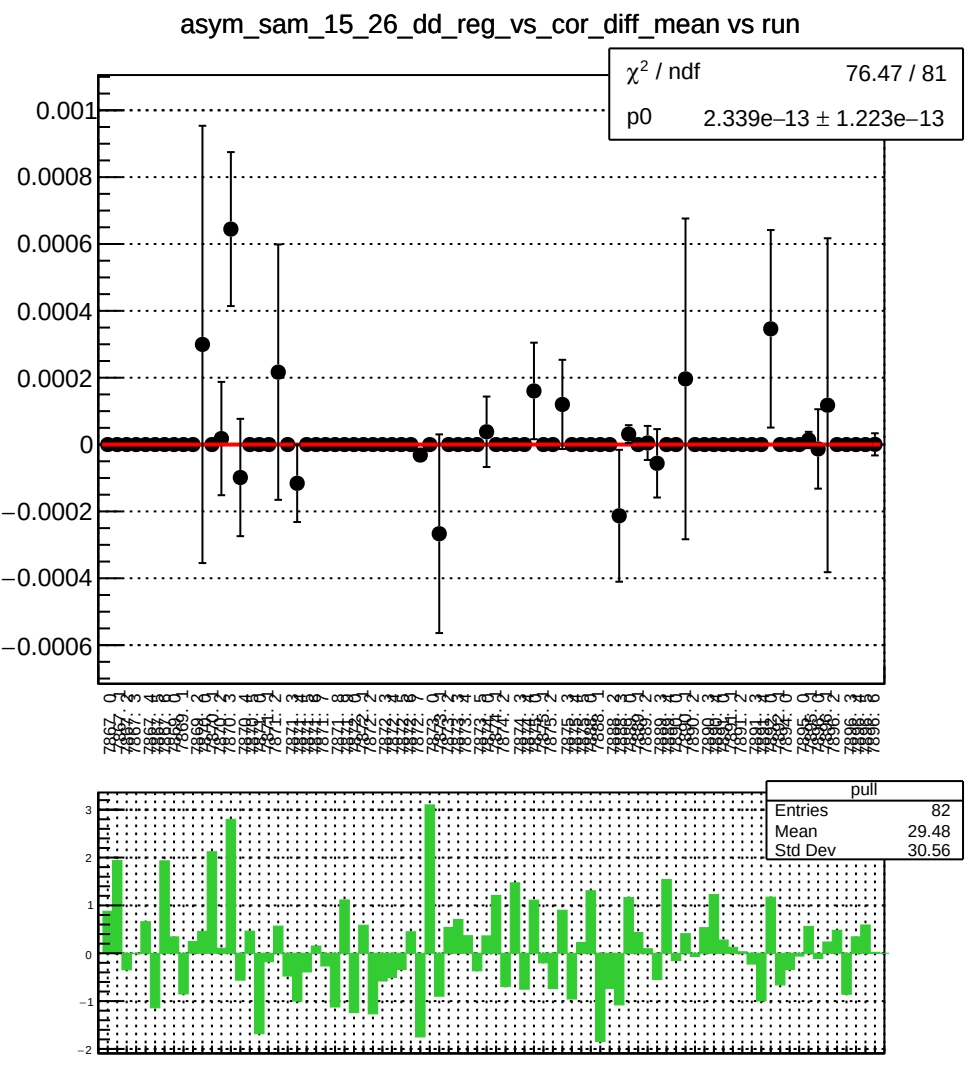

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.56 / 81
p0 196.7 ± 1150
pull
Entries 82
Mean −44.34
Std Dev 0
pull1D
Entries 82
Mean 0.007505
Std Dev 0.9009

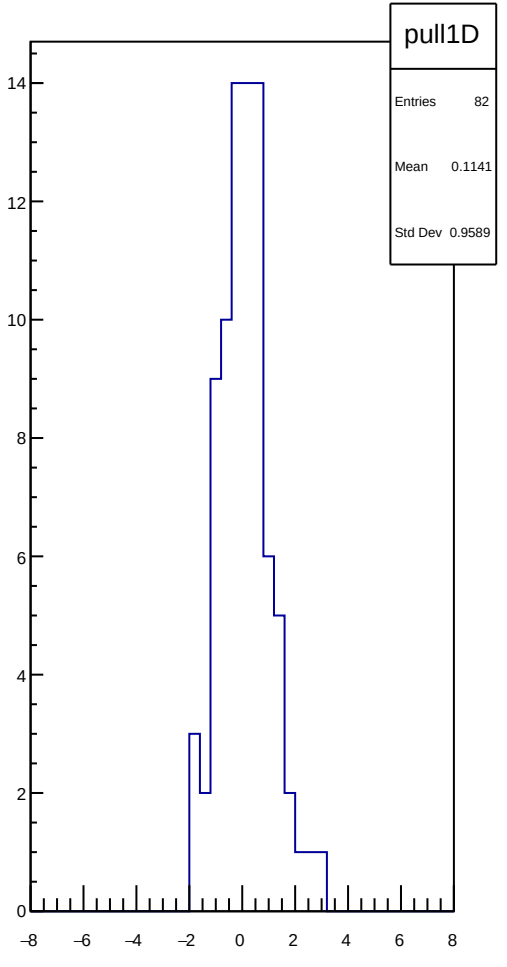

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.352e+04 / 81
p0 1035 ± 0.8135
1600
1500
1400
1300
1200
1100
1000
900

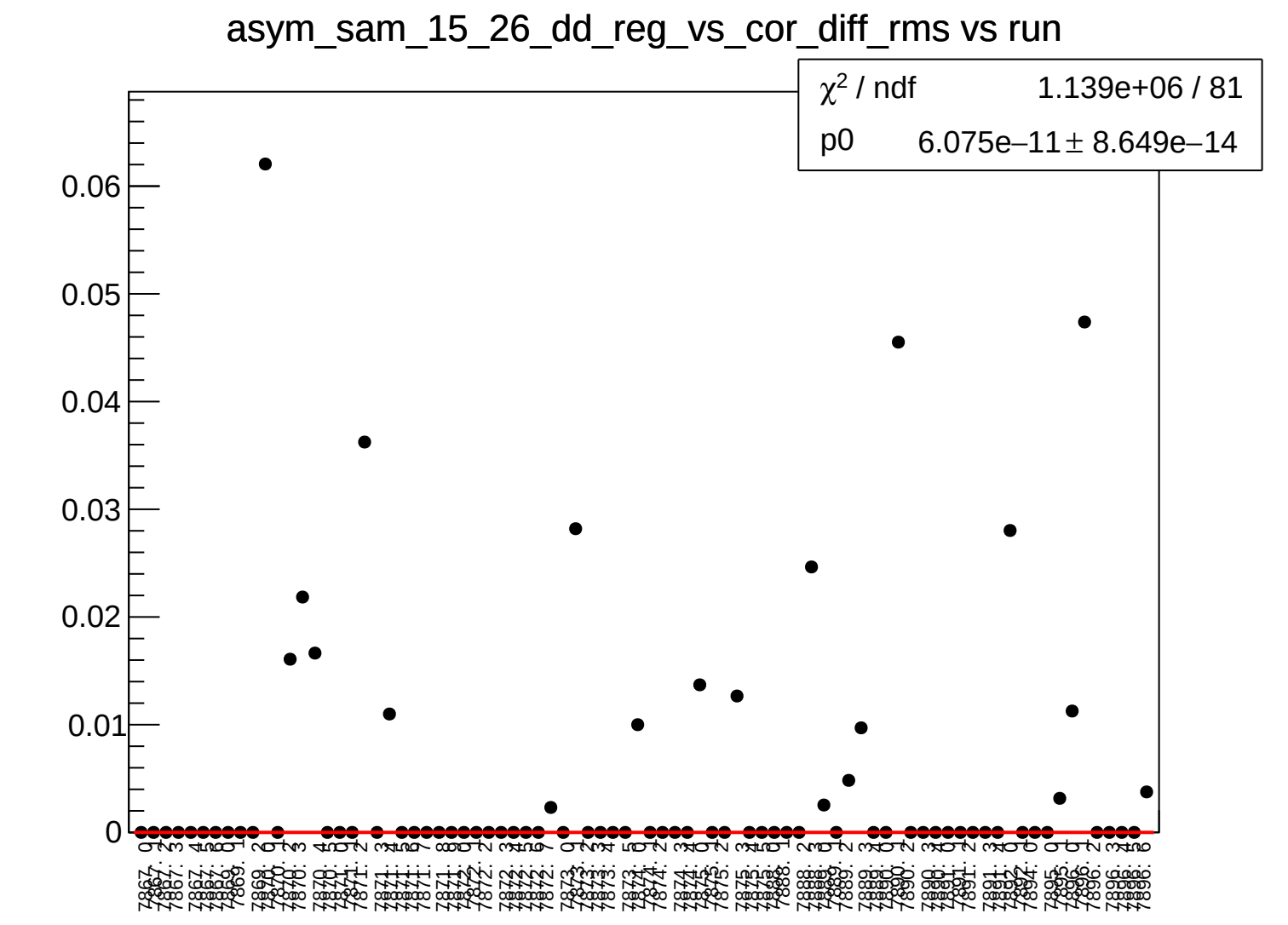

asym_sam_15_26_dd_mean vs run
χ^2 / ndf 67.12 / 81
p0 −403.7 ± 1142
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −111.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

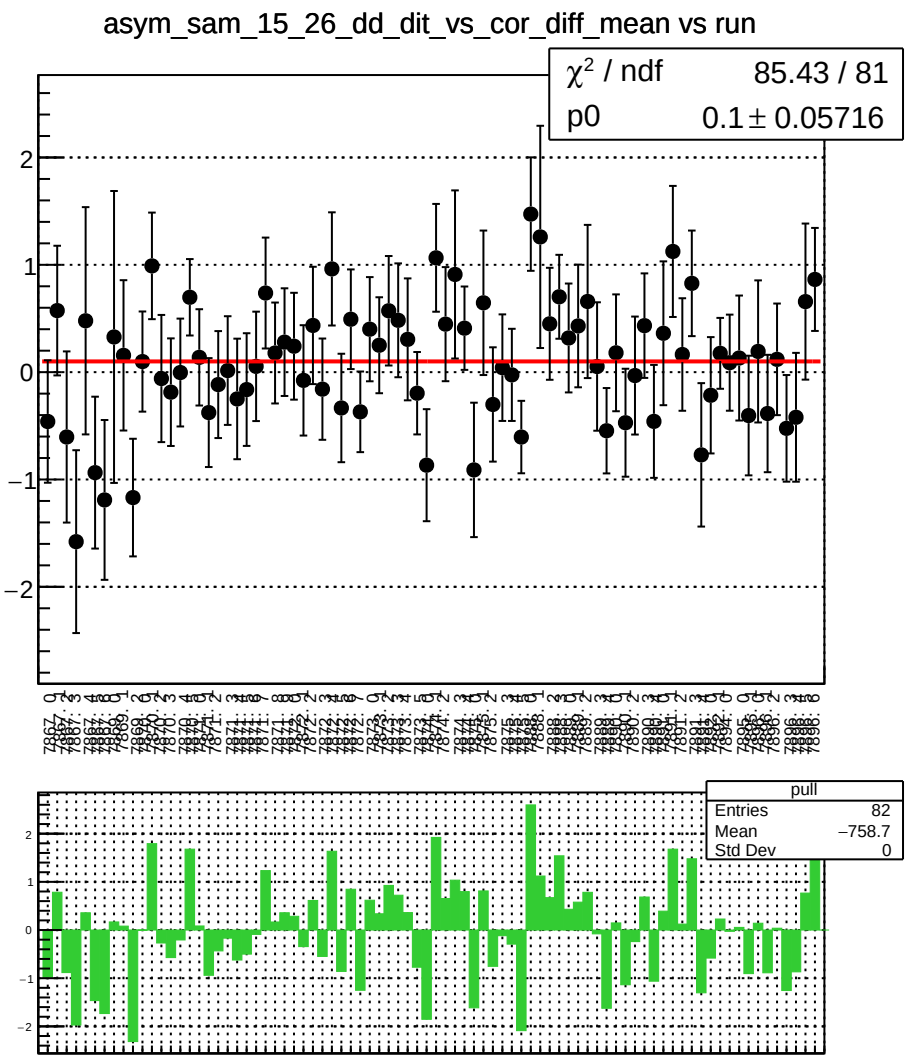

pull1D
Entries 82
Mean −0.005
Std Dev 0.9047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

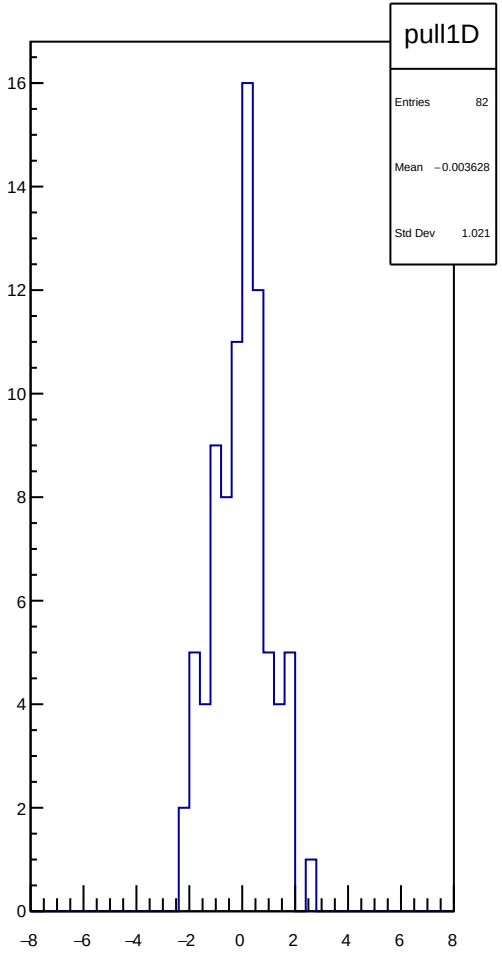

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.293e+04 / 81
p0 1028 ± 0.8077
1600
1500
1400
1300
1200
1100
1000
900

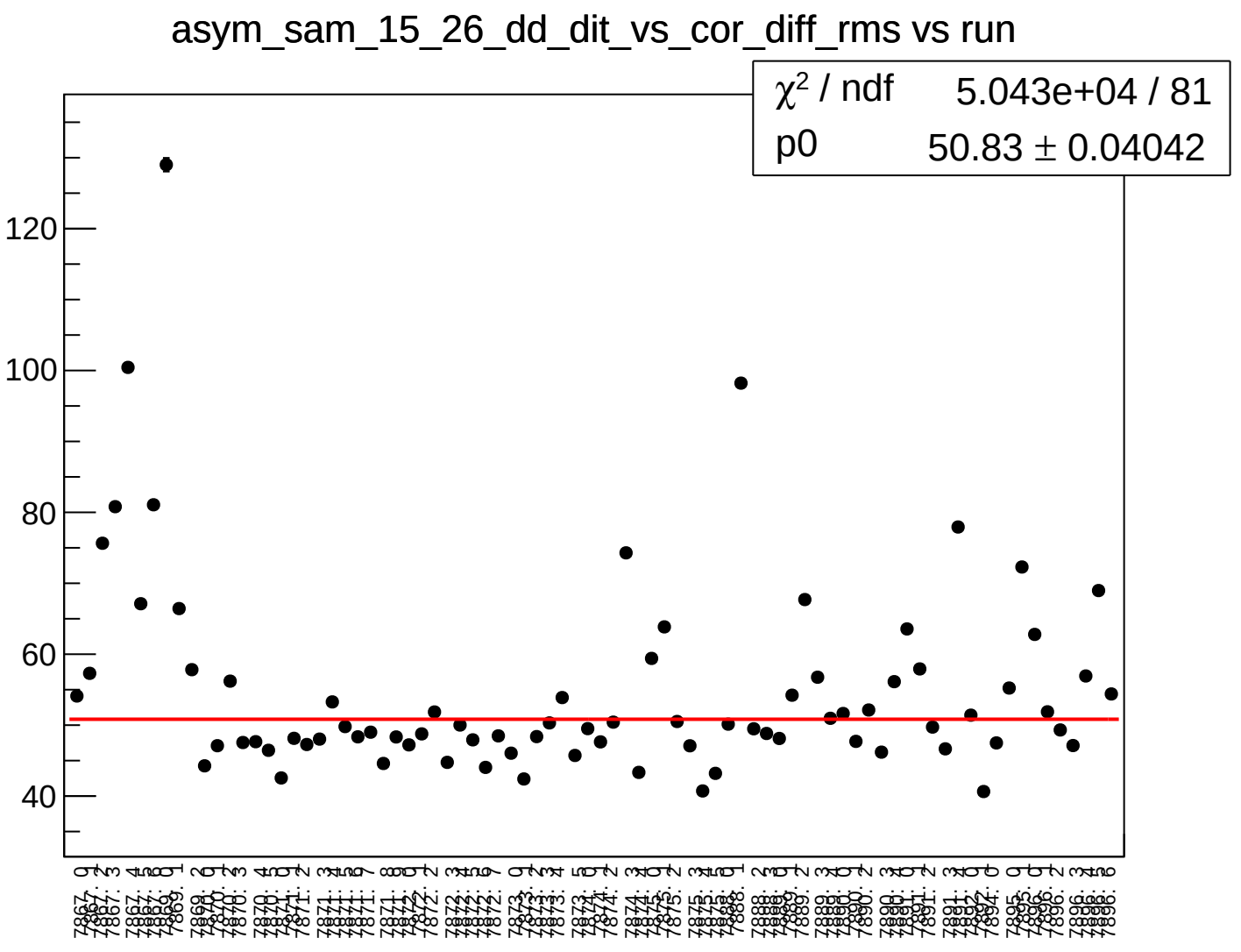

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.47 / 81
p0 2.339e−13 ± 1.223e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 82
Mean 29.48
Std Dev 30.56
3
2
1
0
−1
−2

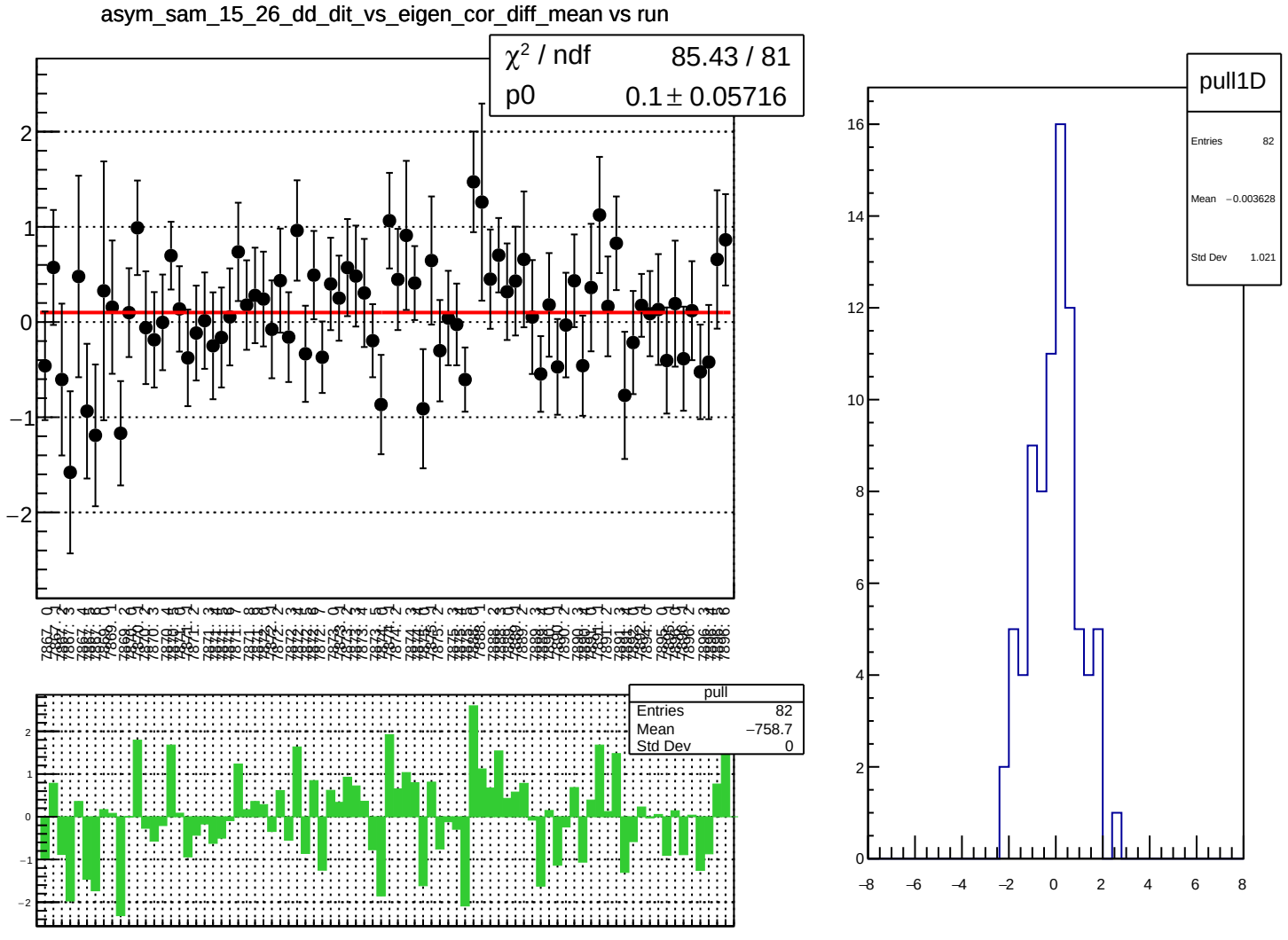

pull1D
Entries 82
Mean 0.1141
Std Dev 0.9589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

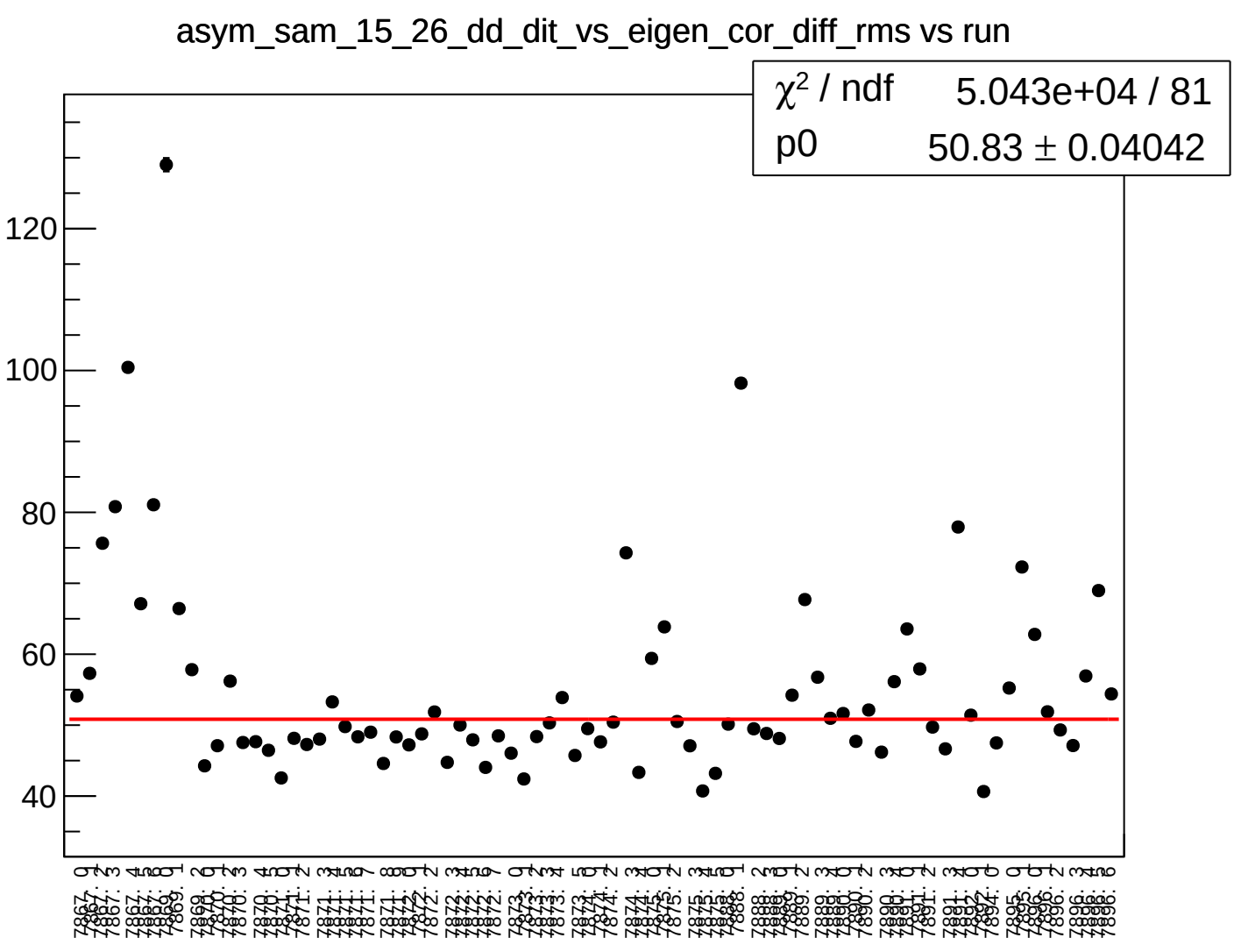

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 81
p0 6.075e−11 ± 8.649e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

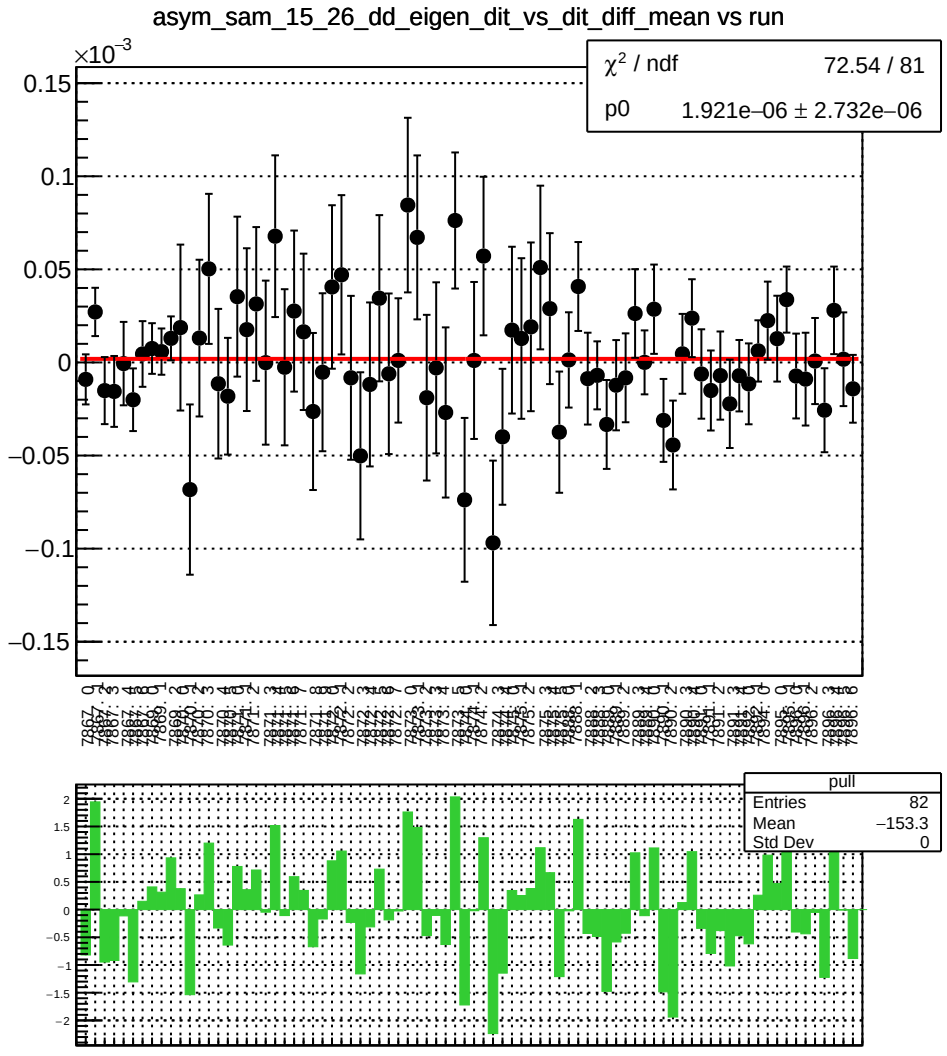

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 81
p0 0.1 ± 0.05716
pull
Entries 82
Mean −758.7
Std Dev 0

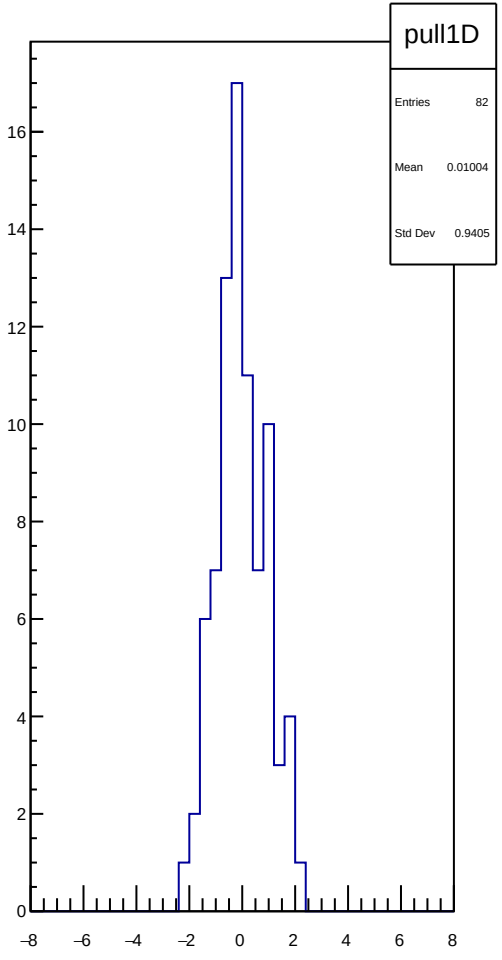

pull1D
Entries 82
Mean −0.003628
Std Dev 1.021

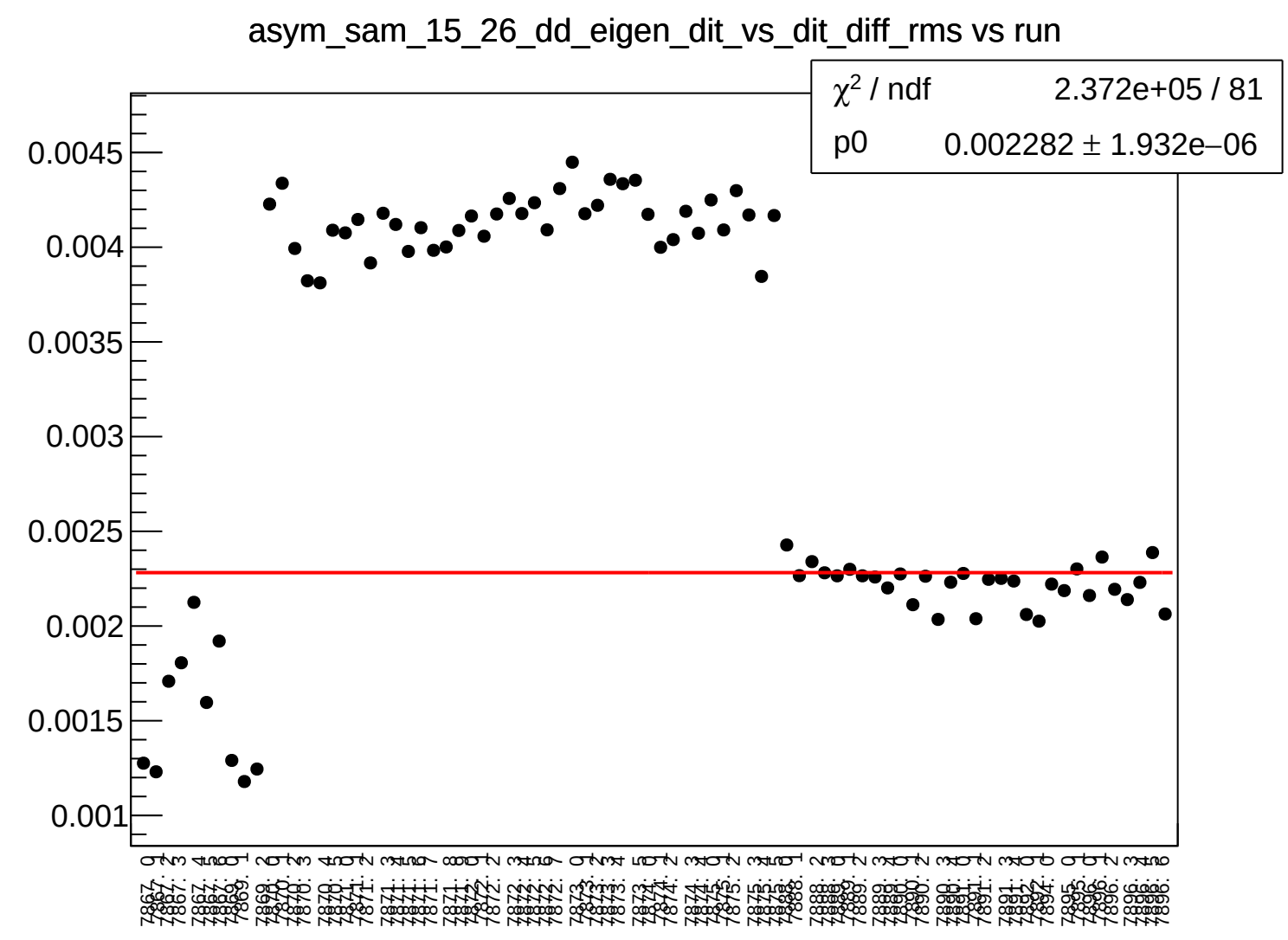

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.043e+04 / 81
p0 50.83 ± 0.04042
120
100
80
60
40

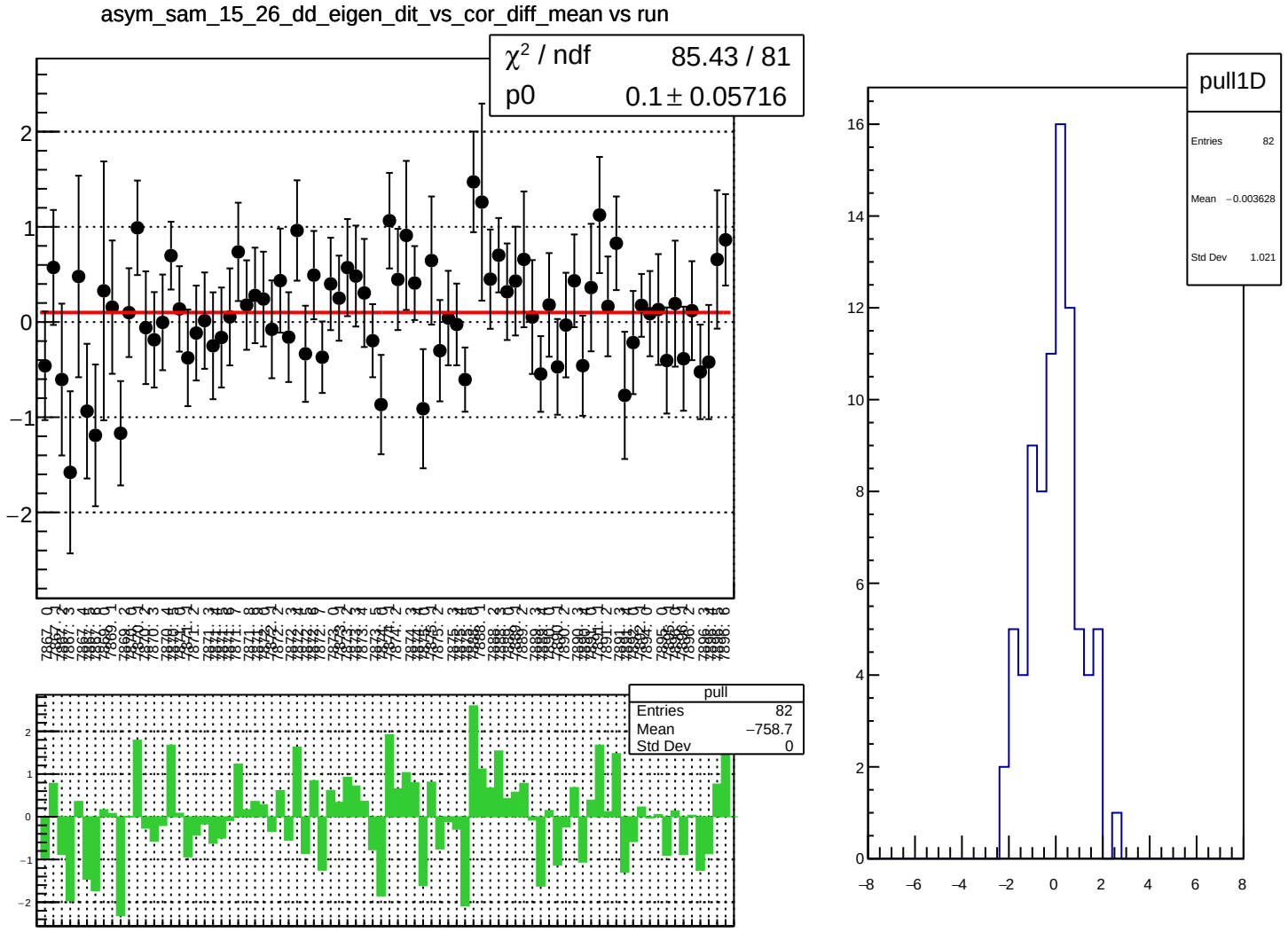

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.43 / 81
p0 0.1 ± 0.05716
pull
Entries 82
Mean −758.7
Std Dev 0
pull1D
Entries 82
Mean −0.003628
Std Dev 1.021

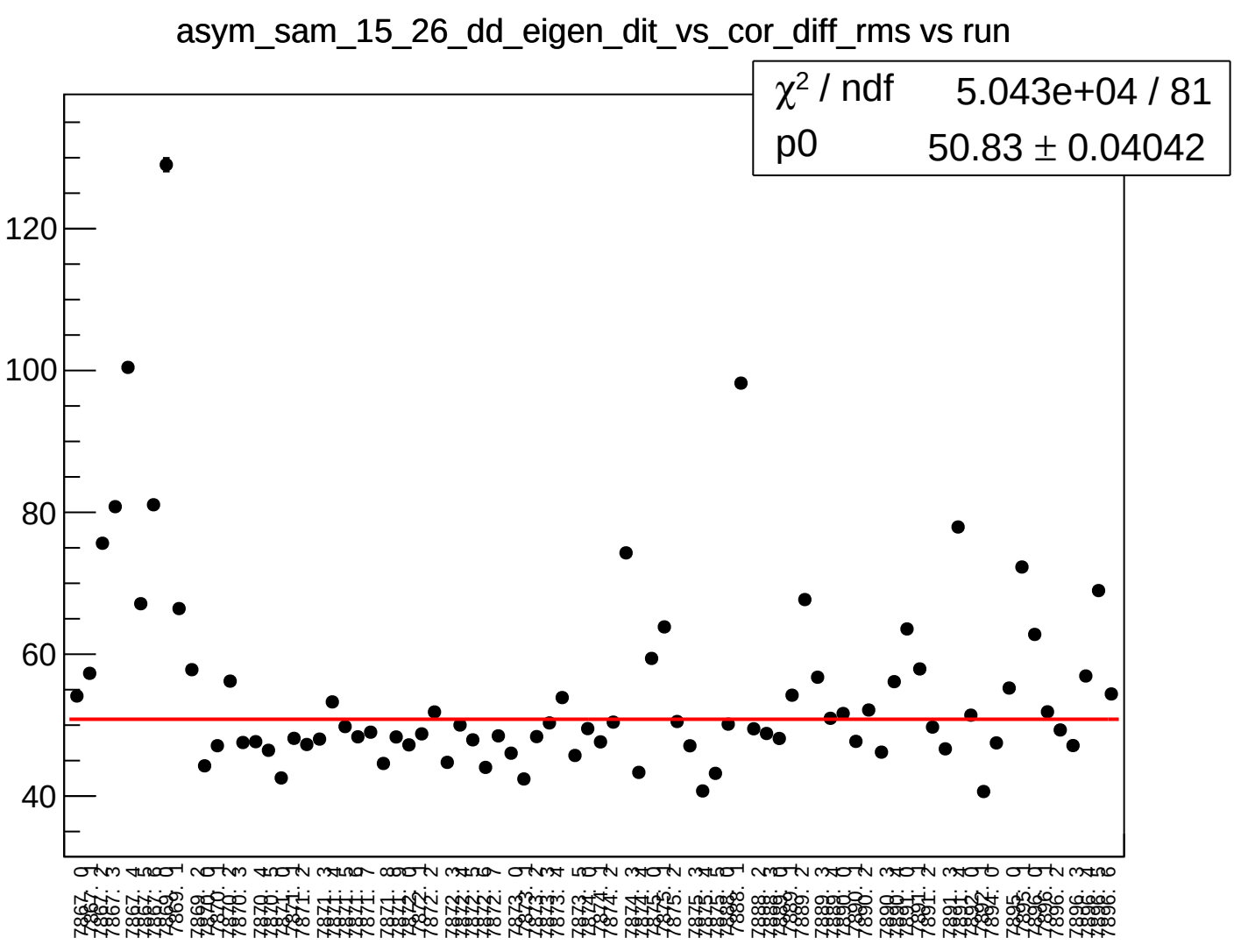

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.043e+04 / 81
p0 50.83 ± 0.04042
120
100
80
60
40

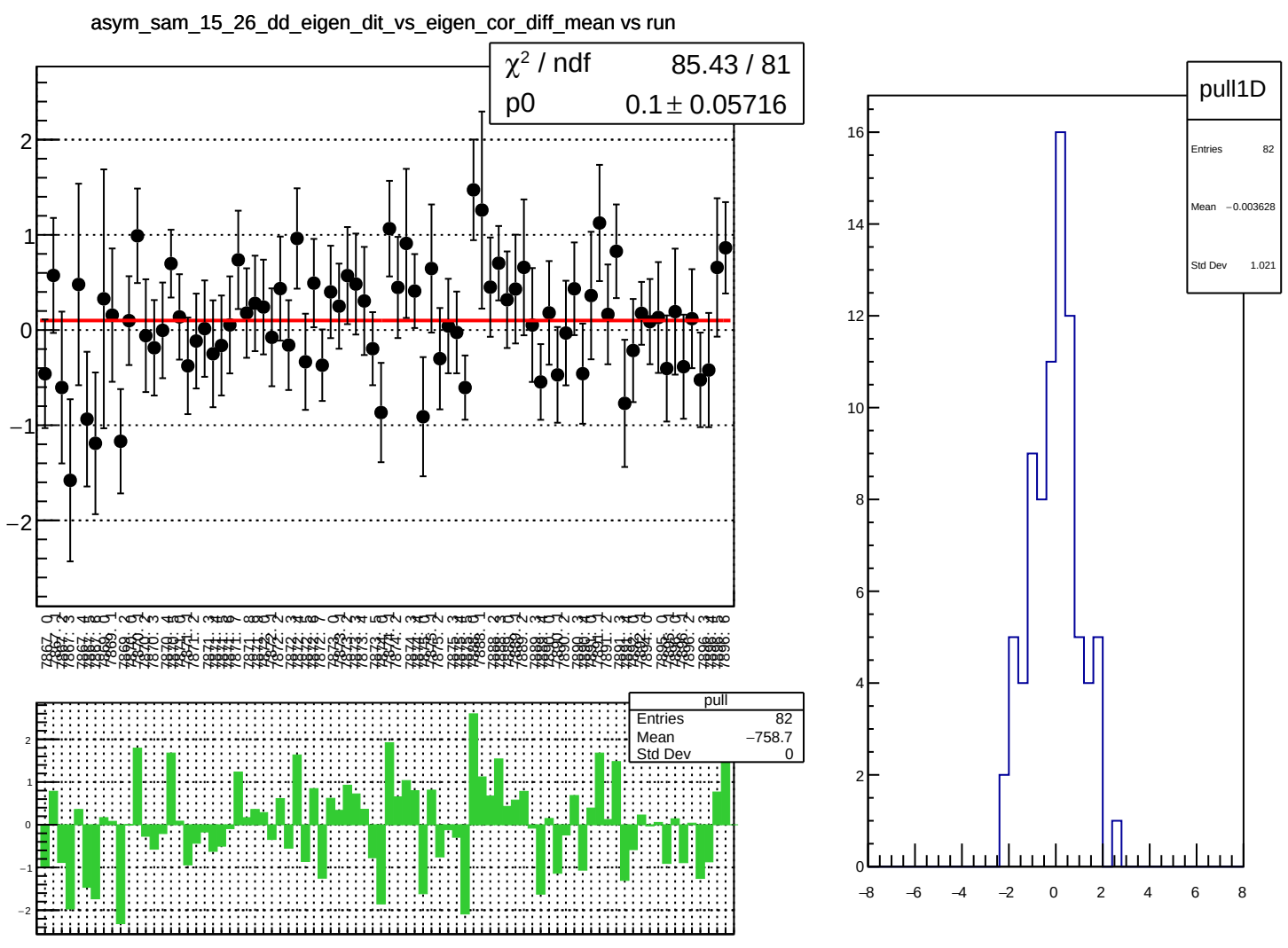

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.54 / 81
p0 1.921e−06 ± 2.732e−06
pull
Entries 82
Mean −153.3
Std Dev 0

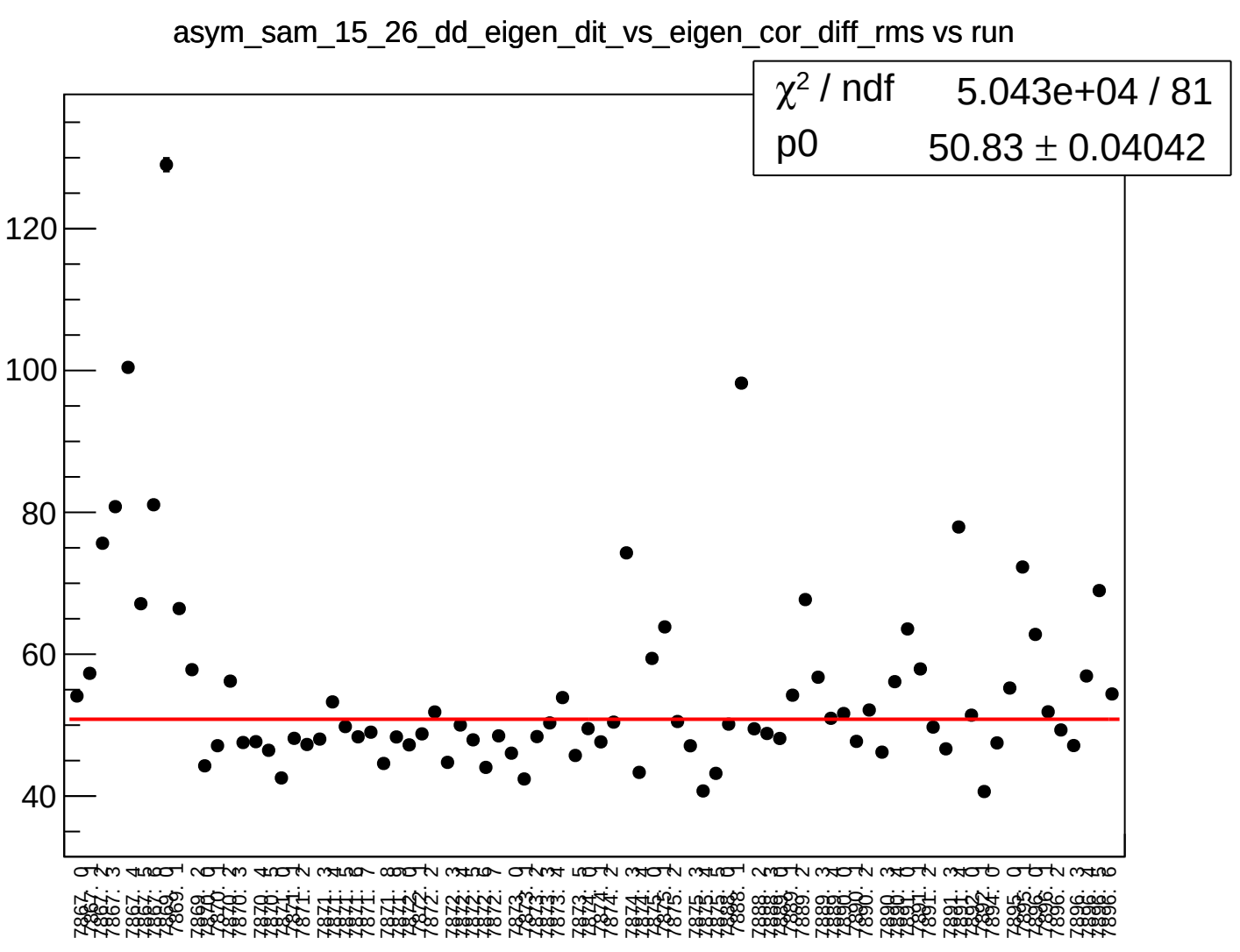

pull1D
Entries 82
Mean 0.01004
Std Dev 0.9405

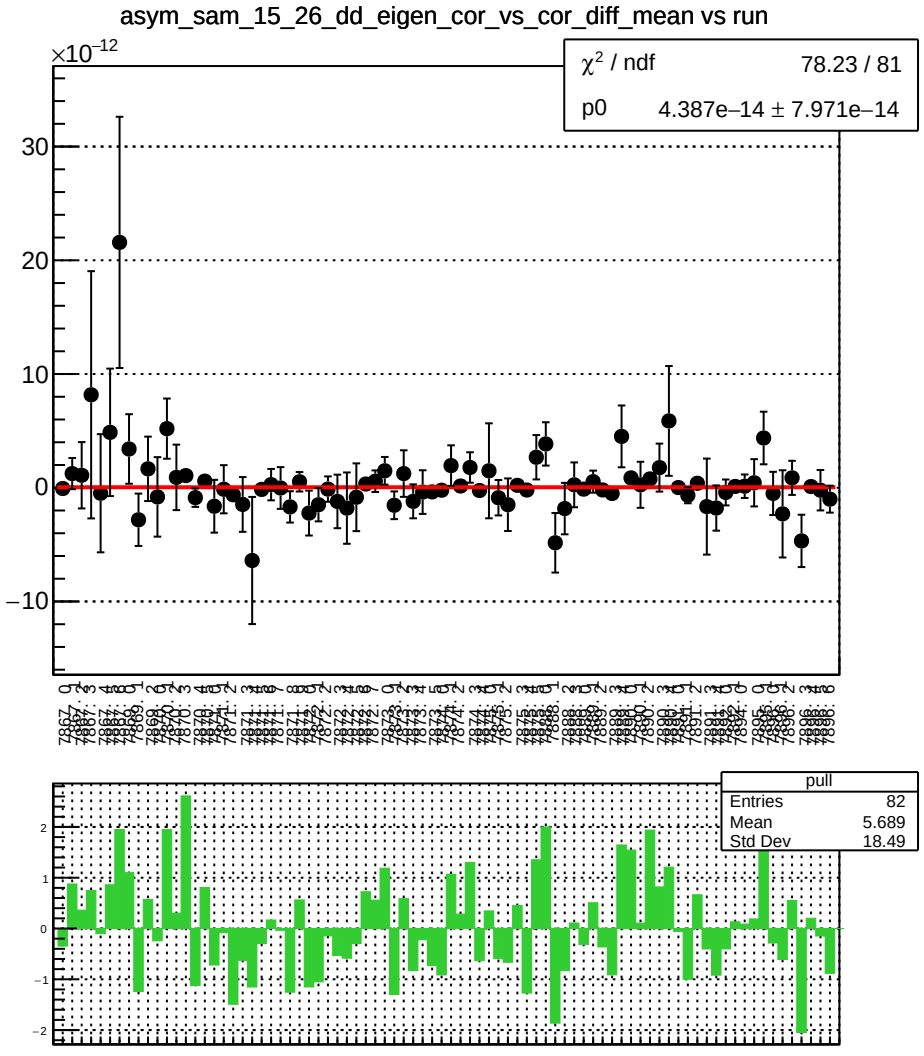

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.372e+05 / 81
p0 0.002282 ± 1.932e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

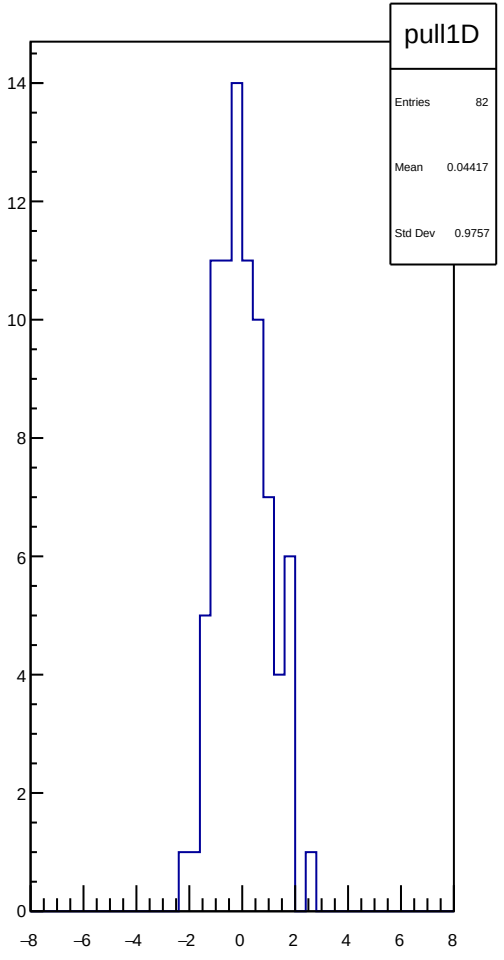

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 81
p0 0.1 ± 0.05716
pull
Entries 82
Mean −758.7
Std Dev 0
pull1D
Entries 82
Mean −0.003628
Std Dev 1.021

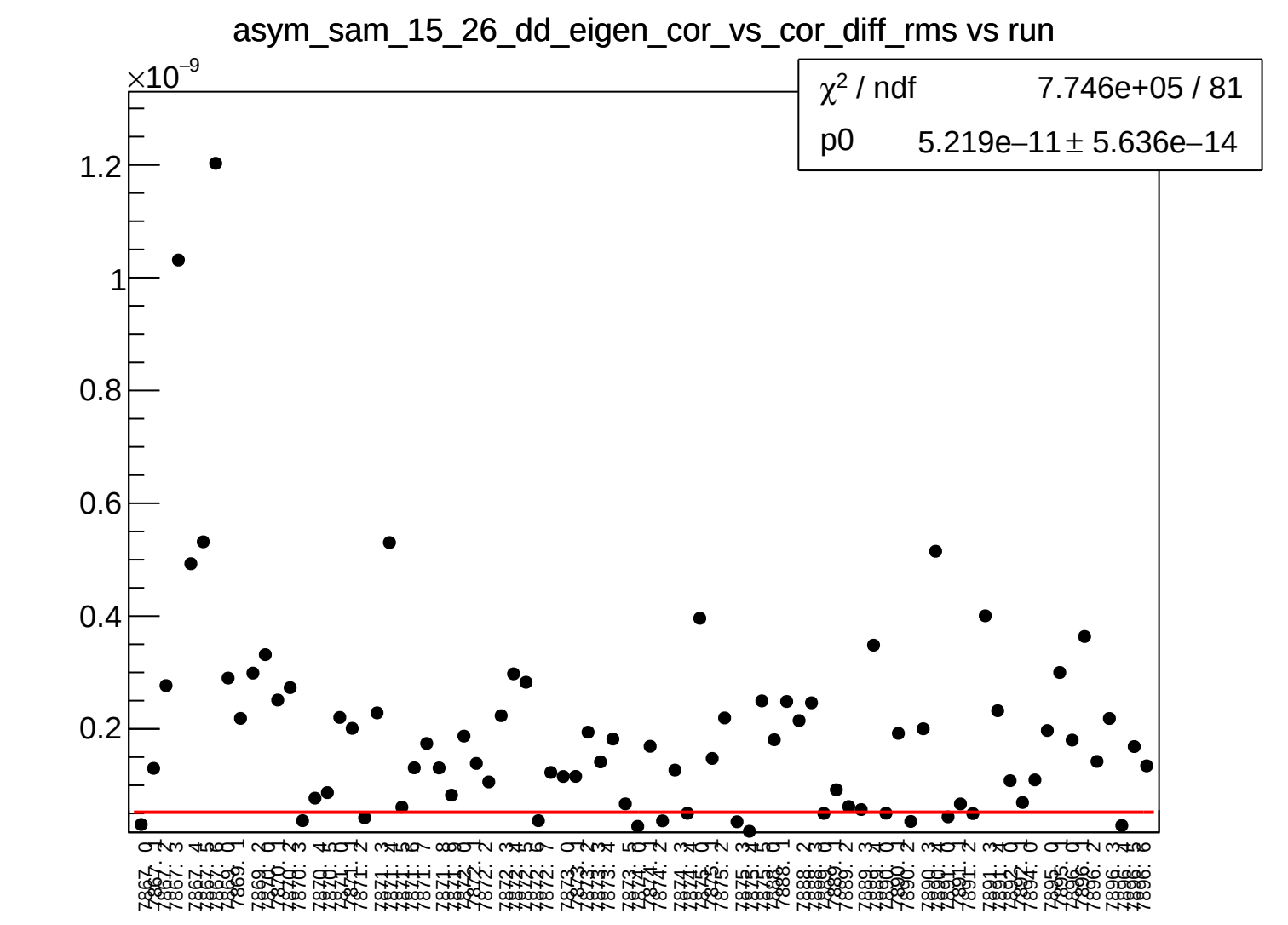

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 81
p0 50.83 ± 0.04042
120
100
80
60
40

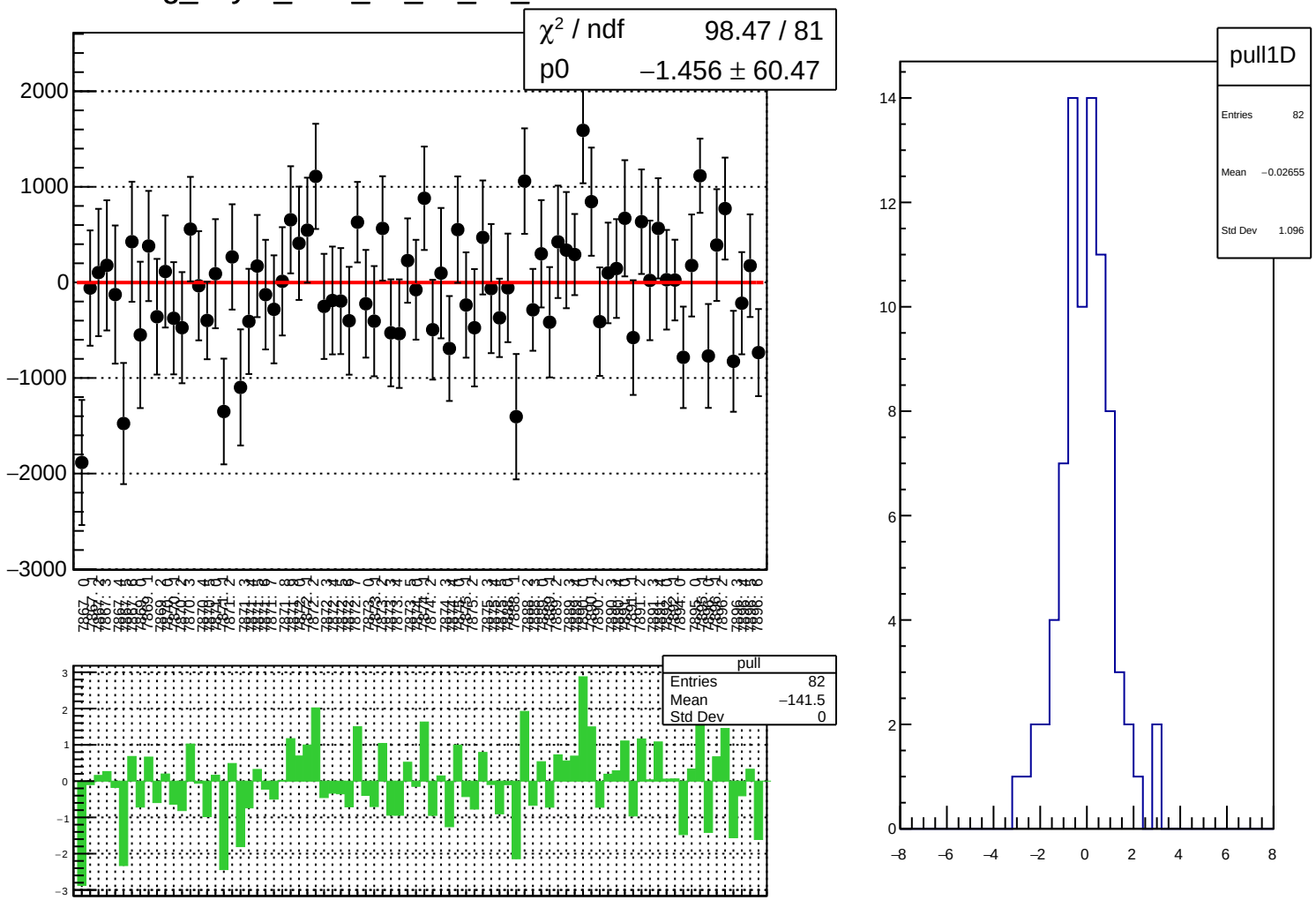

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.43 / 81
p0 0.1 ± 0.05716
pull
Entries 82
Mean −758.7
Std Dev 0
pull1D
Entries 82
Mean −0.003628
Std Dev 1.021

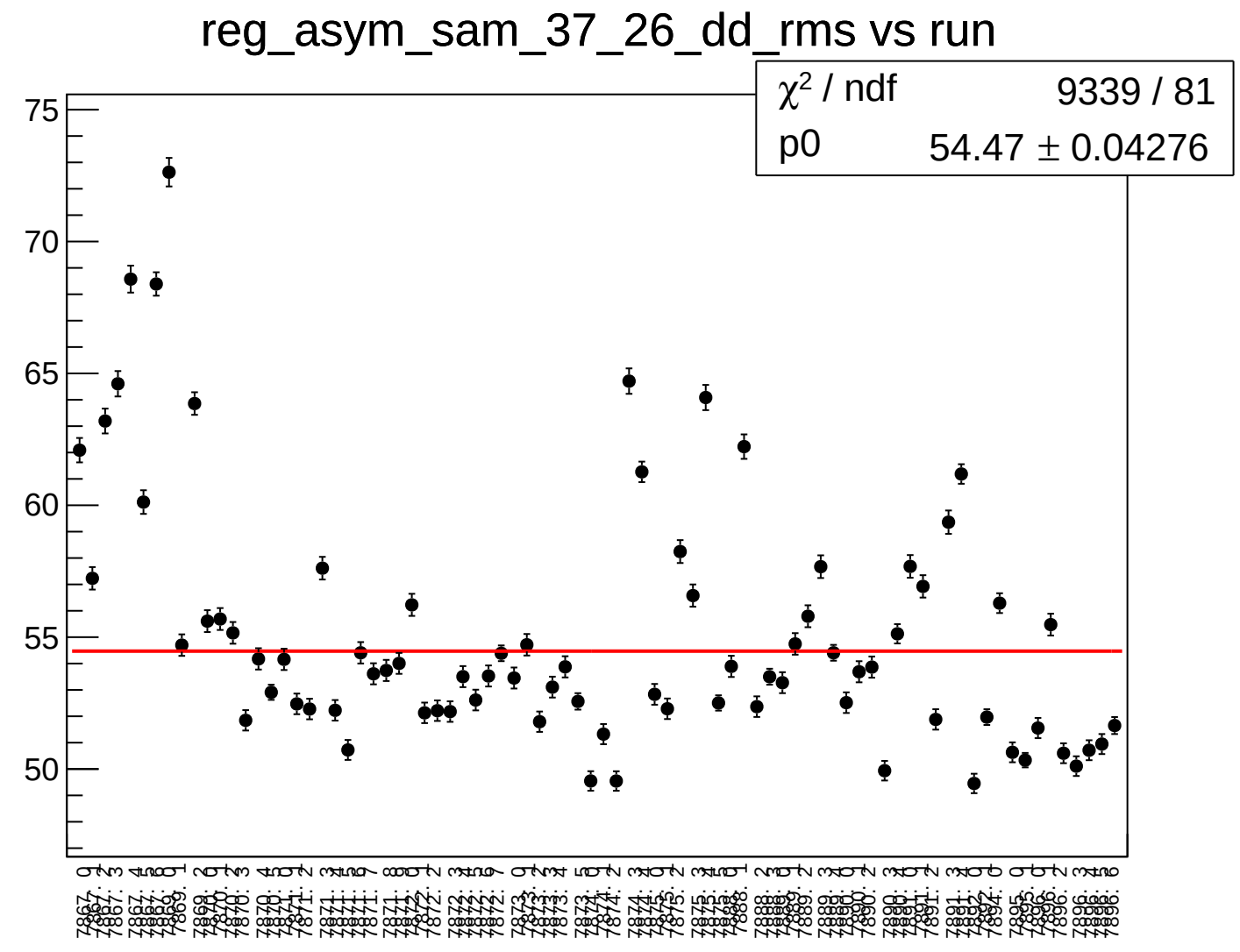

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 81
p0 50.83 ± 0.04042
120
100
80
60
40

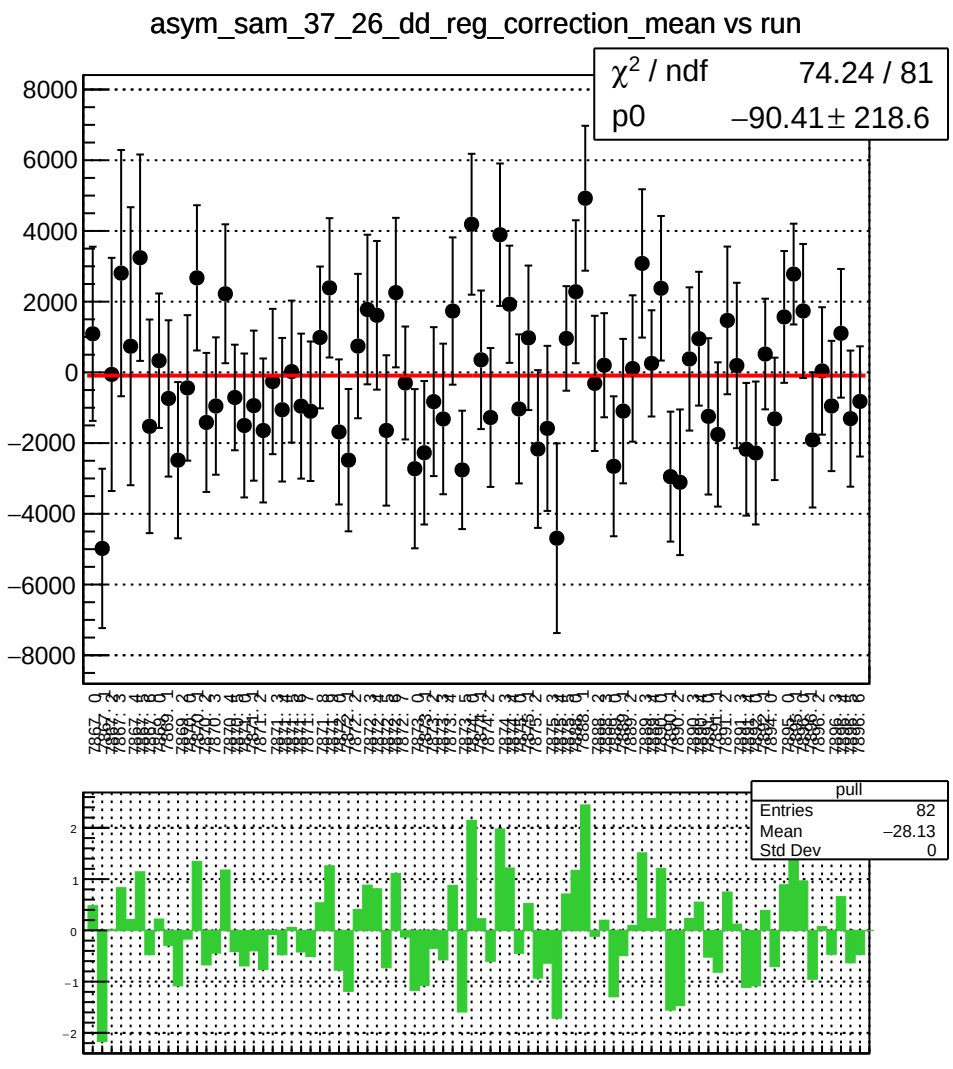

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.23 / 81
p0 4.387e−14 ± 7.971e−14
30
20
10
0
−10
pull
Entries 82
Mean 5.689
Std Dev 18.49
2
1
0
−1
−2

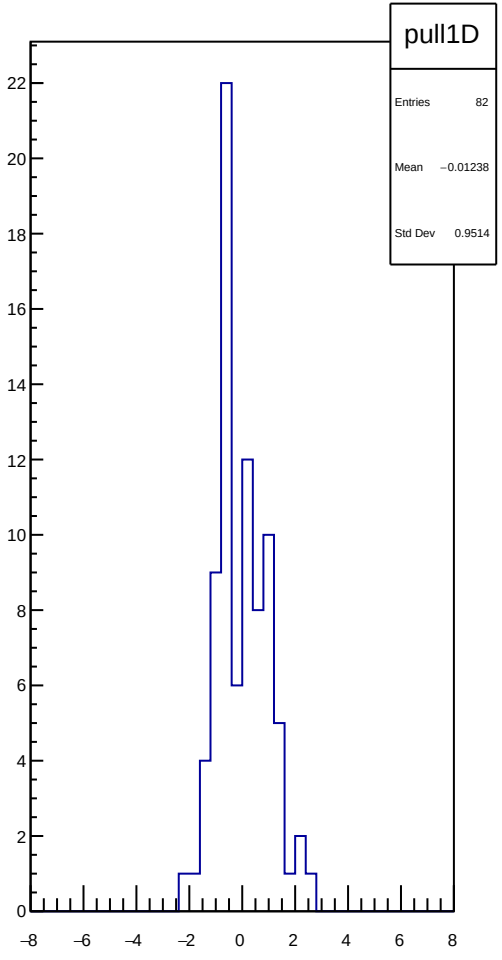

pull1D
Entries 82
Mean 0.04417
Std Dev 0.9757
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

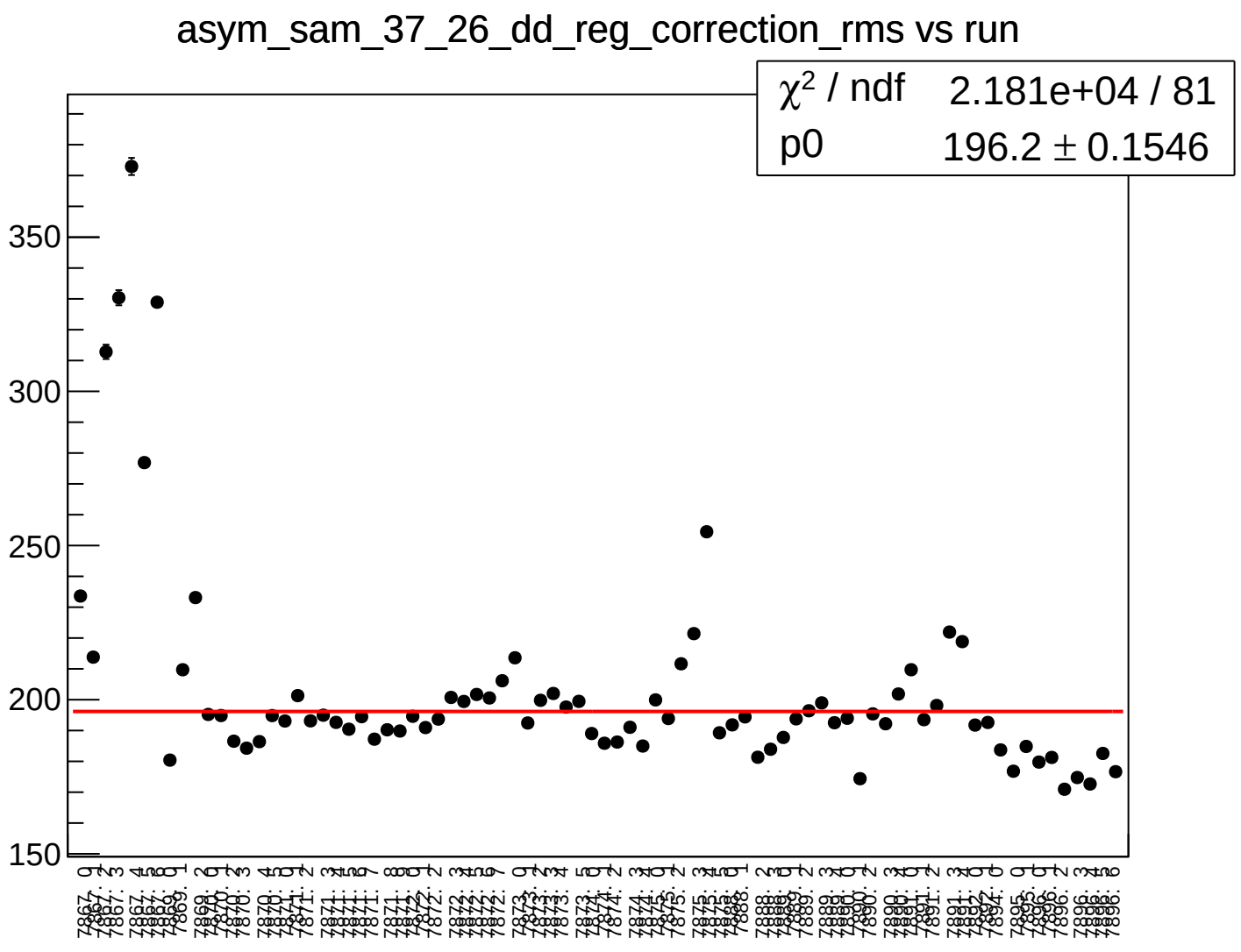

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.746e+05 / 81
p0 5.219e−11 ± 5.636e−14
1.2
1
0.8
0.6
0.4
0.2

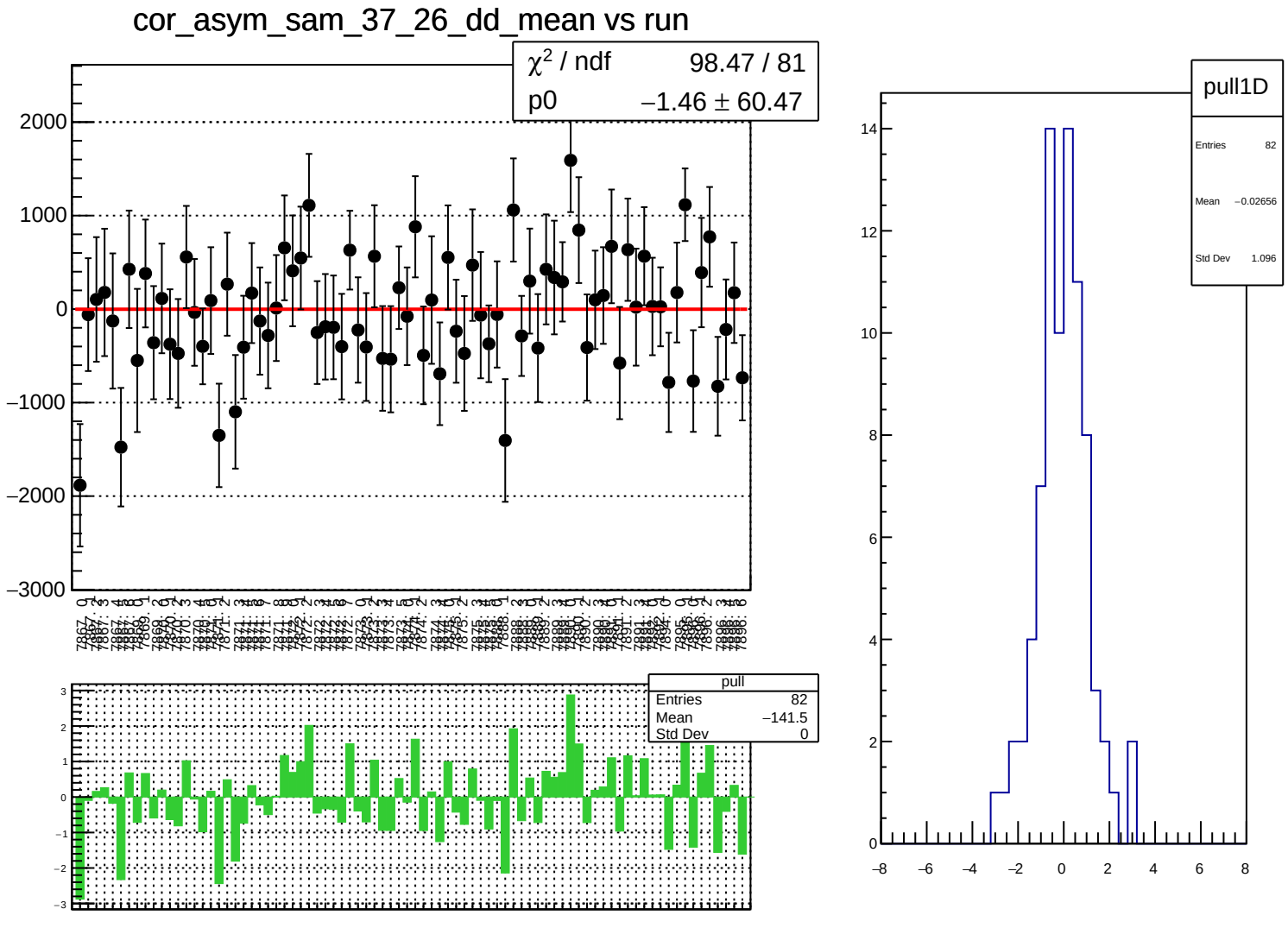

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.47 / 81
p0 −1.456 ± 60.47
pull
Entries 82
Mean −141.5
Std Dev 0
pull1D
Entries 82
Mean −0.02655
Std Dev 1.096

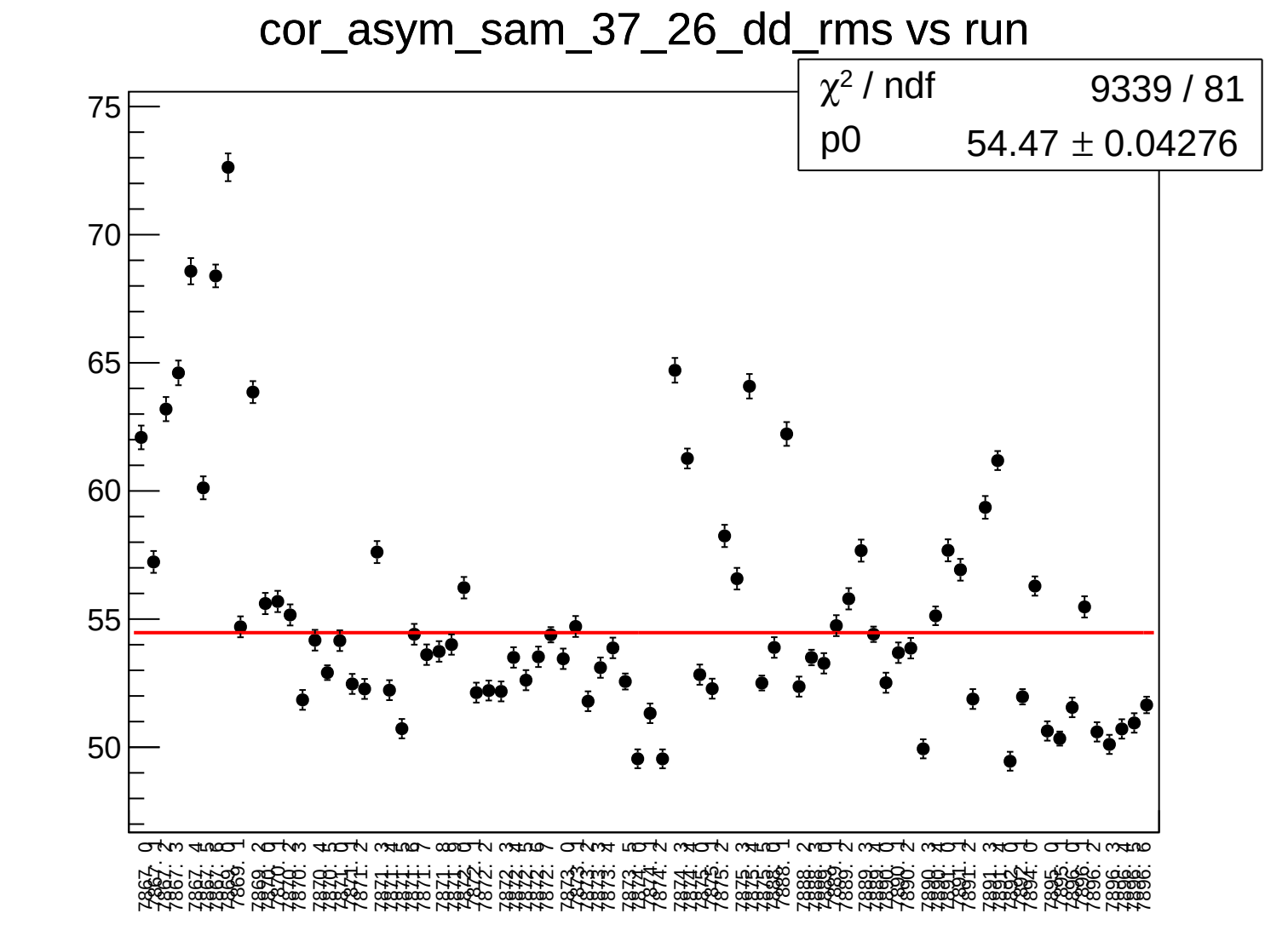

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 9339 / 81
p0 54.47 ± 0.04276
75
70
65
60
55
50

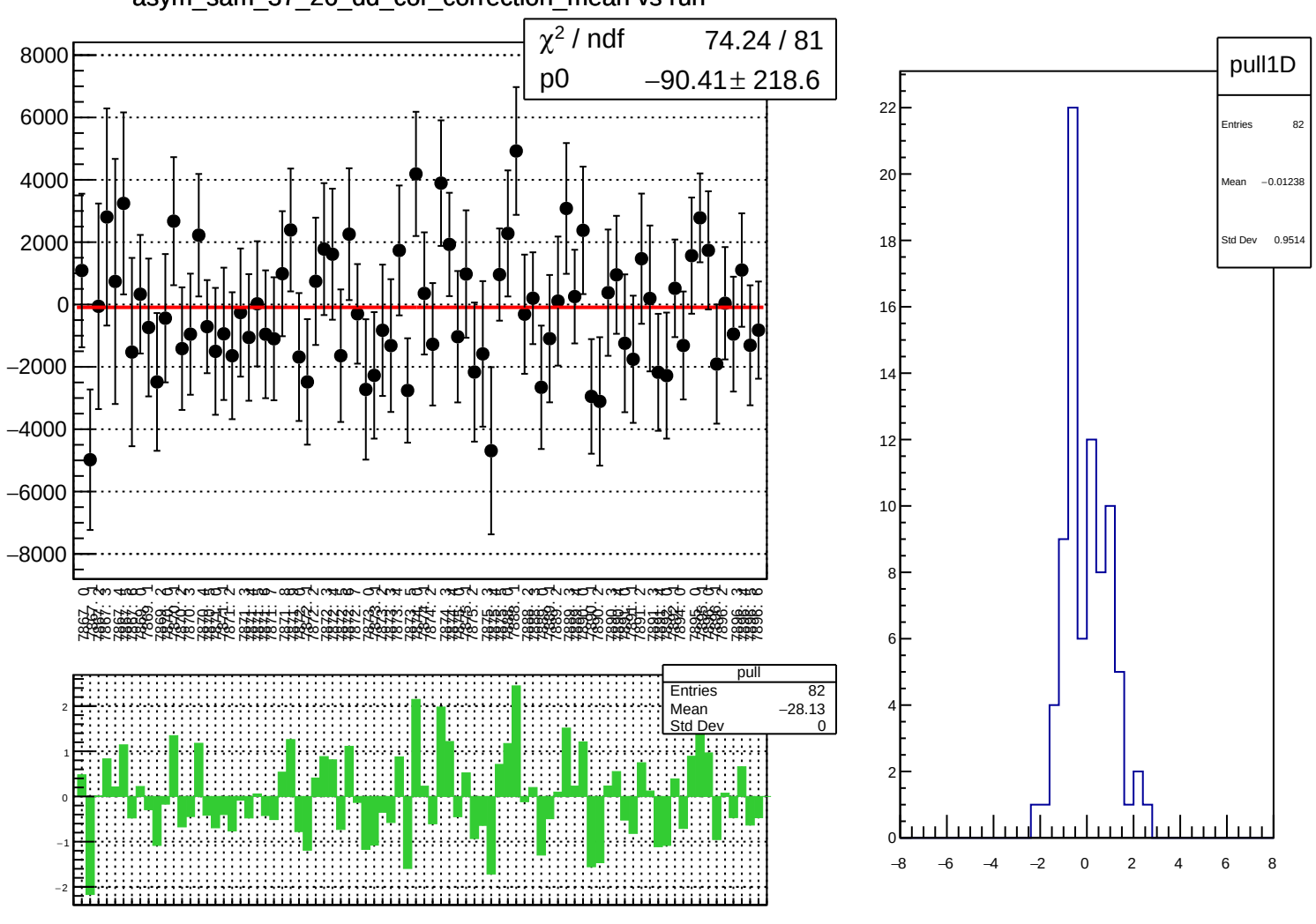

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 74.24 / 81
p0 −90.41± 218.6
pull
Entries 82
Mean −28.13
Std Dev 0

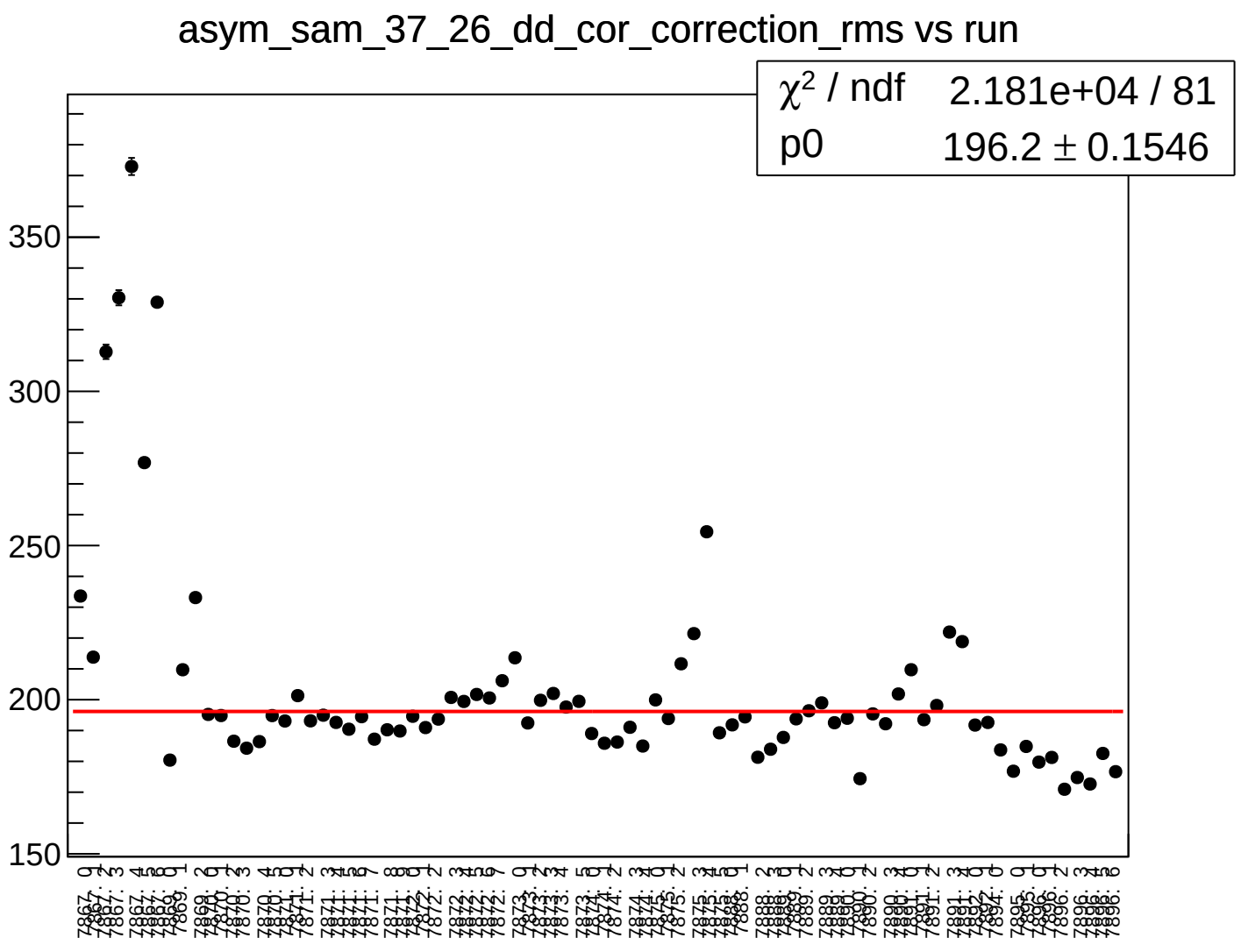

pull1D
Entries 82
Mean −0.01238
Std Dev 0.9514

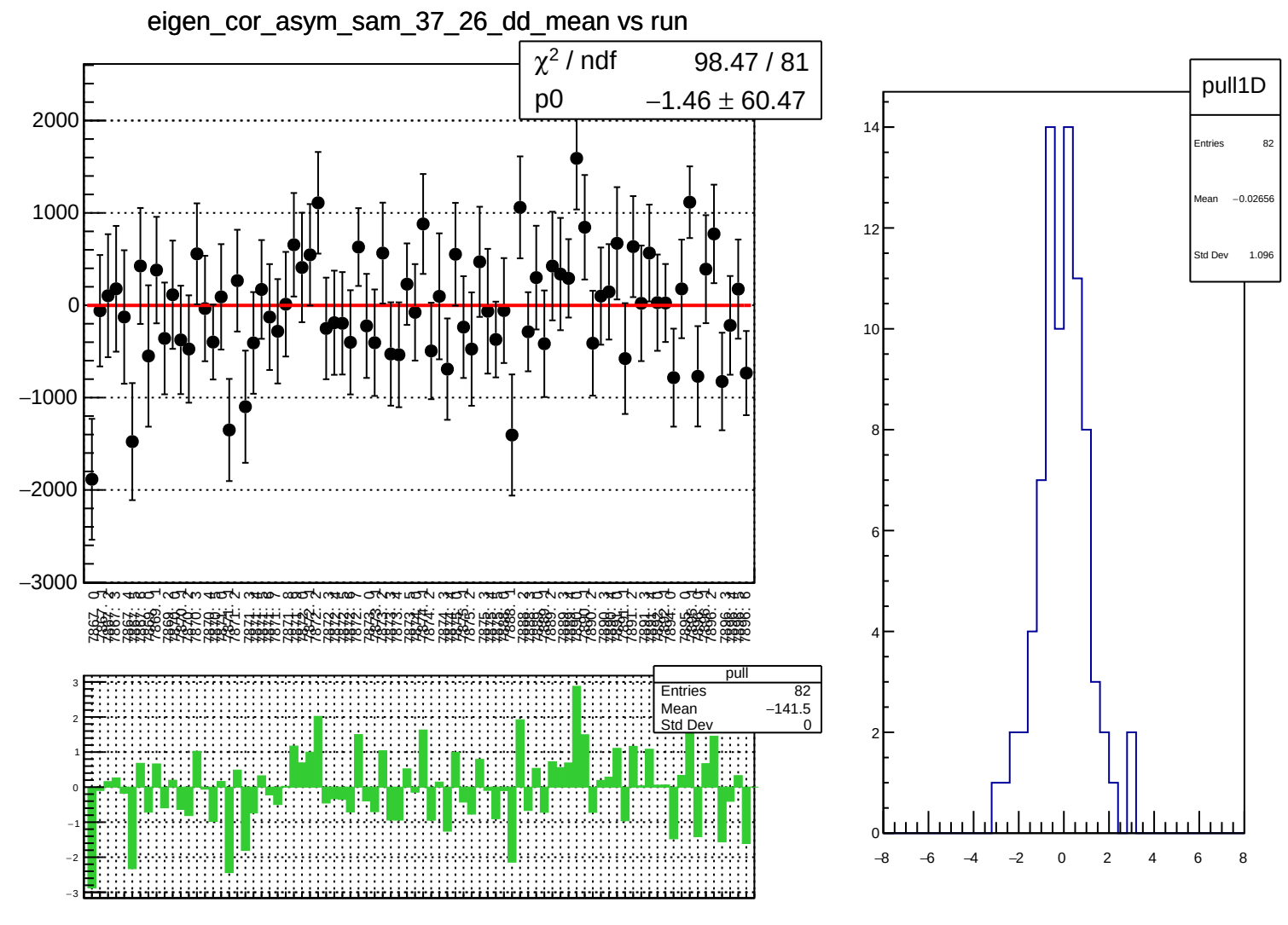

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2.181e+04 / 81
p0 196.2 ± 0.1546
350
300
250
200
150

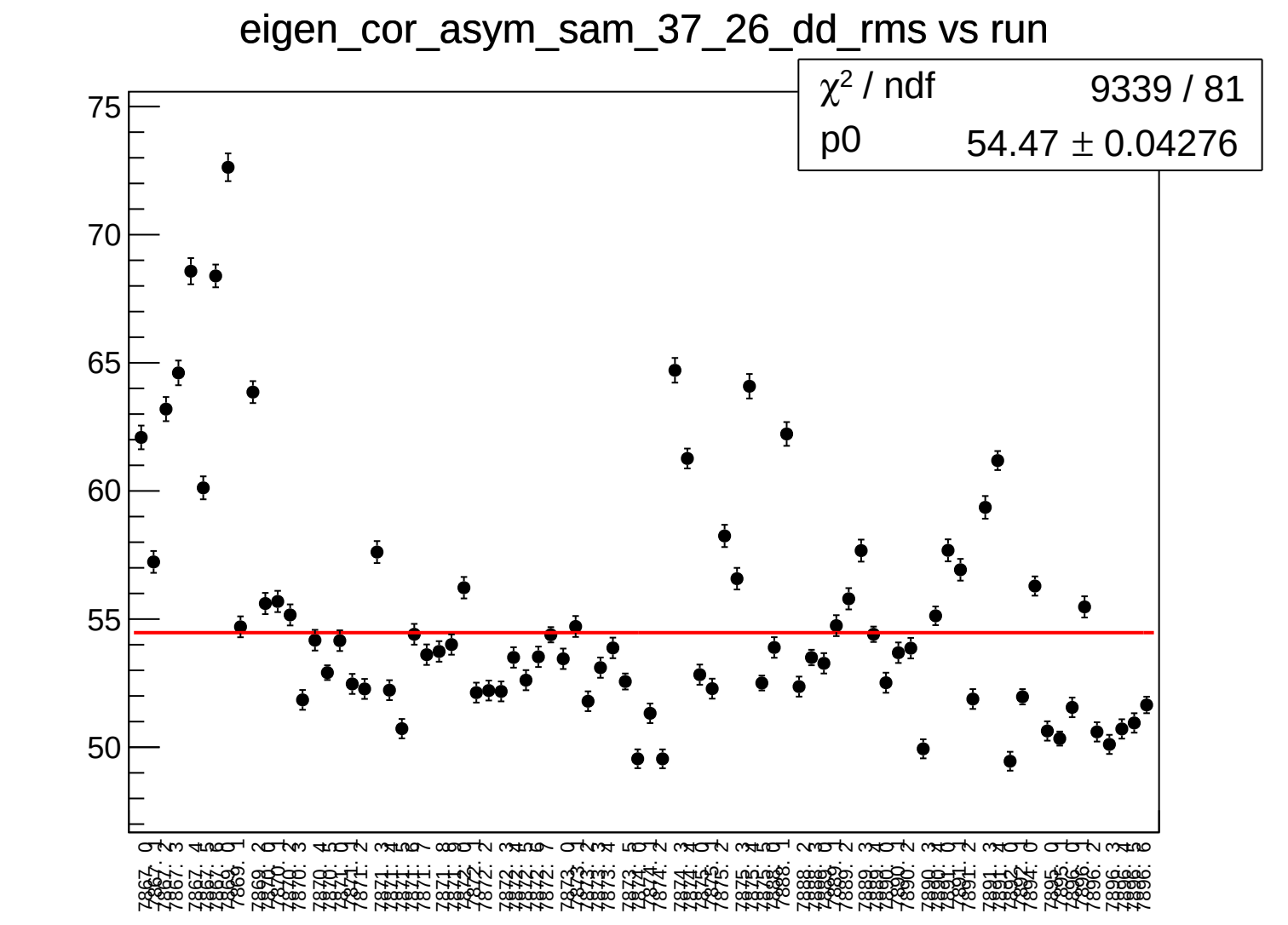

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.47 / 81
p0 −1.46 ± 60.47
pull
Entries 82
Mean −141.5
Std Dev 0
pull1D
Entries 82
Mean −0.02656
Std Dev 1.096

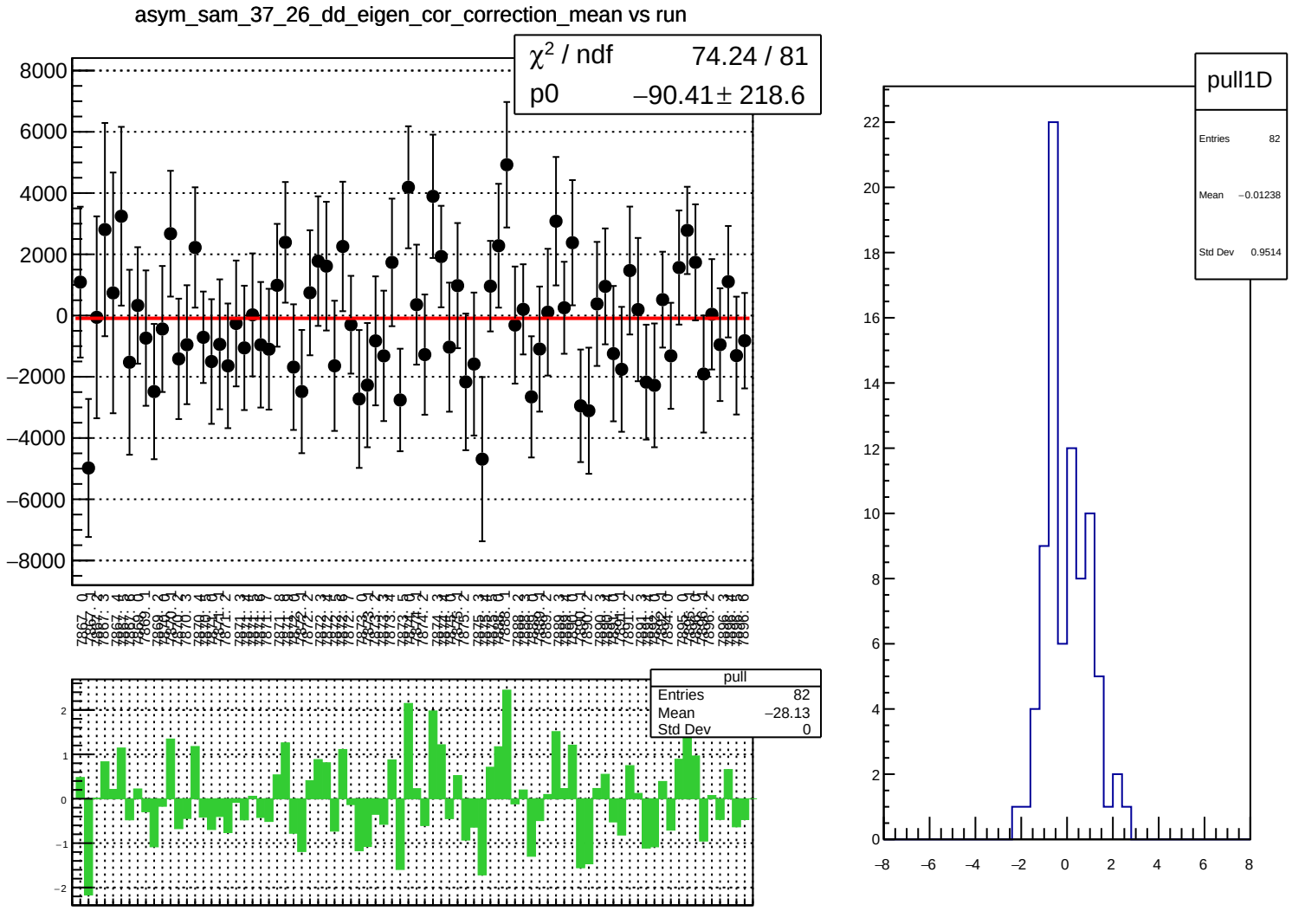

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 9339 / 81
p0 54.47 ± 0.04276
75
70
65
60
55
50

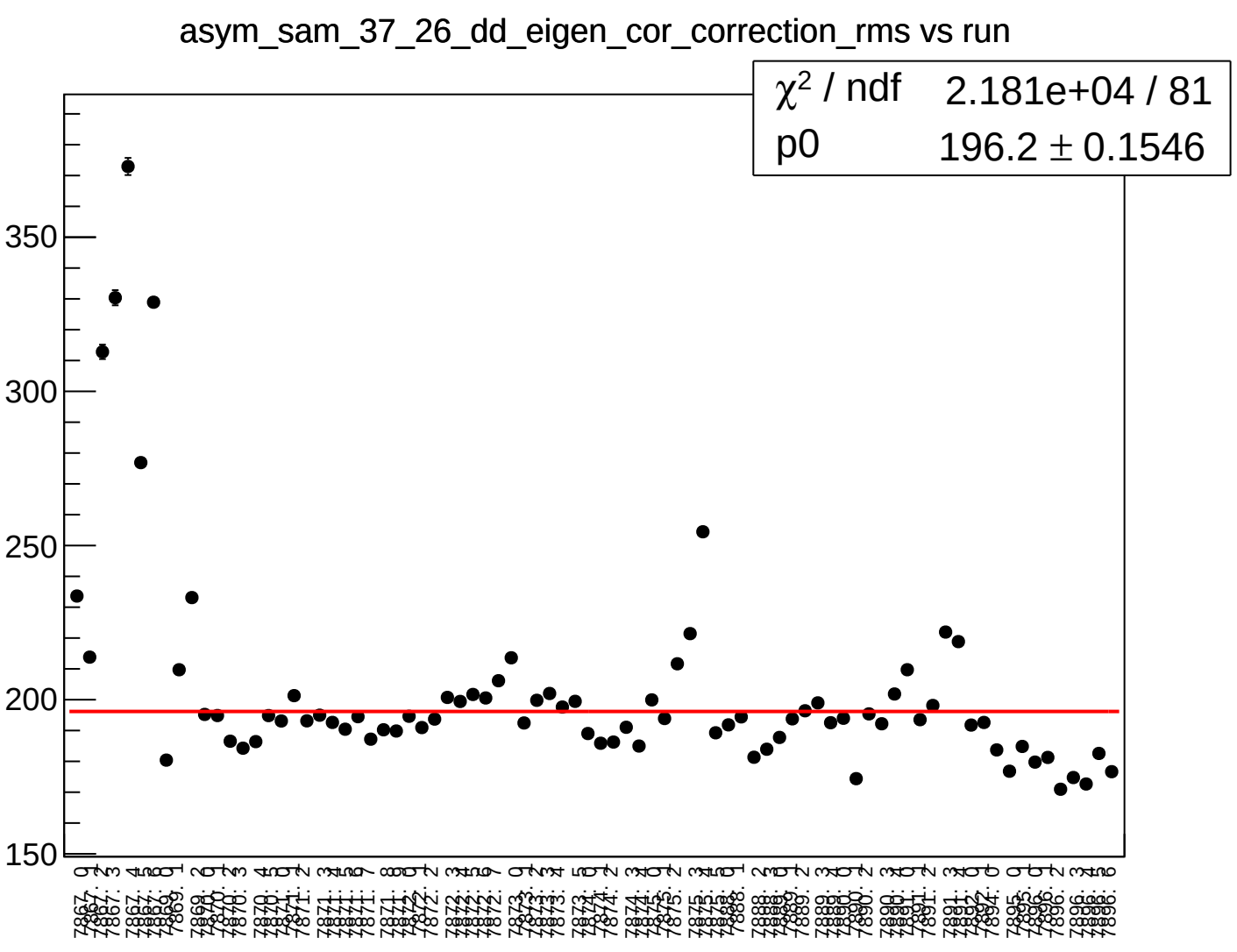

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 74.24 / 81
p0 −90.41 ± 218.6
pull
Entries 82
Mean −28.13
Std Dev 0
pull1D
Entries 82
Mean −0.01238
Std Dev 0.9514

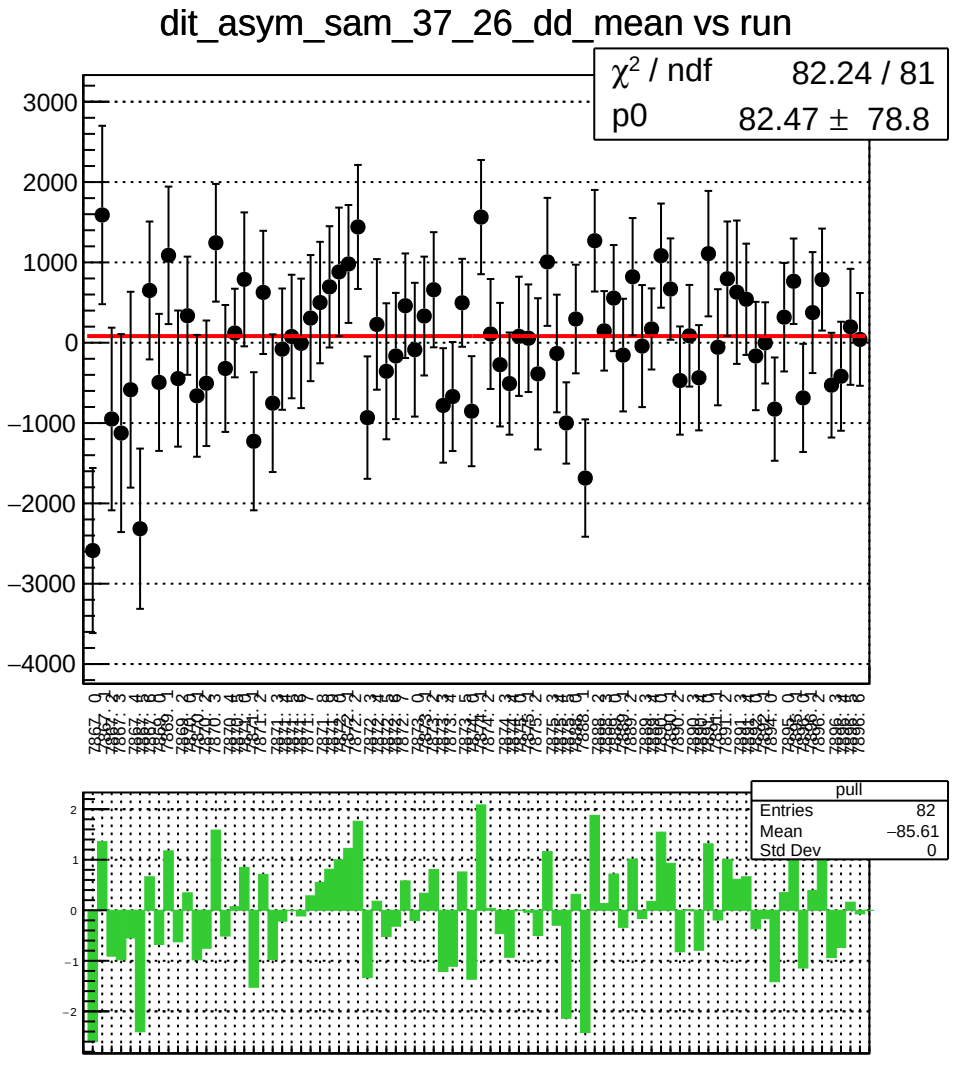

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2.181e+04 / 81
p0 196.2 ± 0.1546
350
300
250
200
150

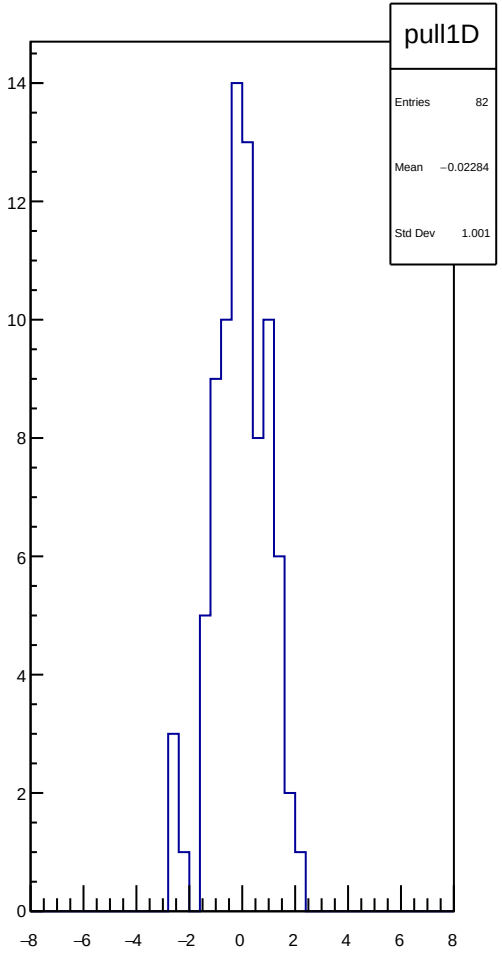

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.47 / 81
p0 −1.46 ± 60.47
pull
Entries 82
Mean −141.5
Std Dev 0
pull1D
Entries 82
Mean −0.02656
Std Dev 1.096

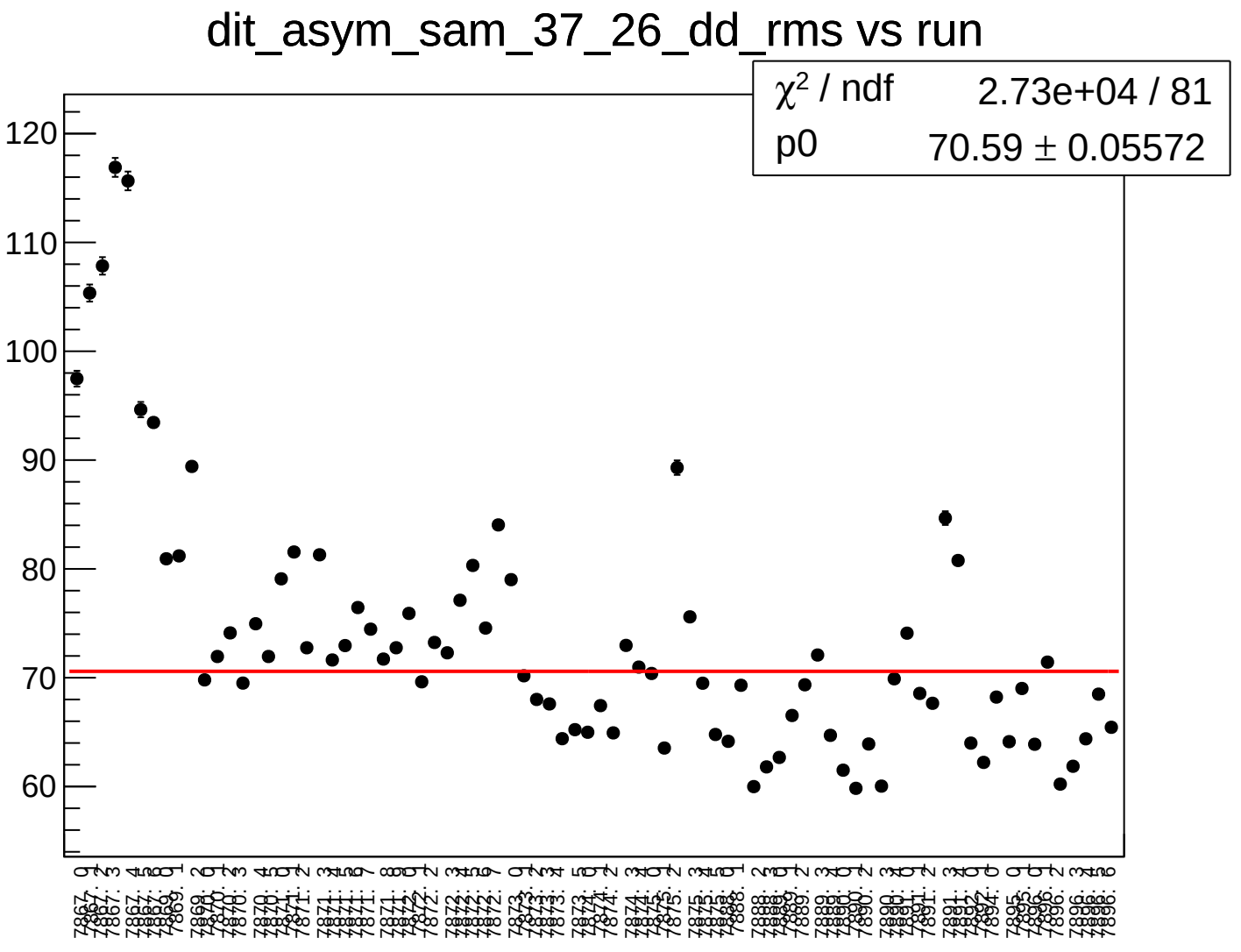

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 9339 / 81
p0 54.47 ± 0.04276
75
70
65
60
55
50

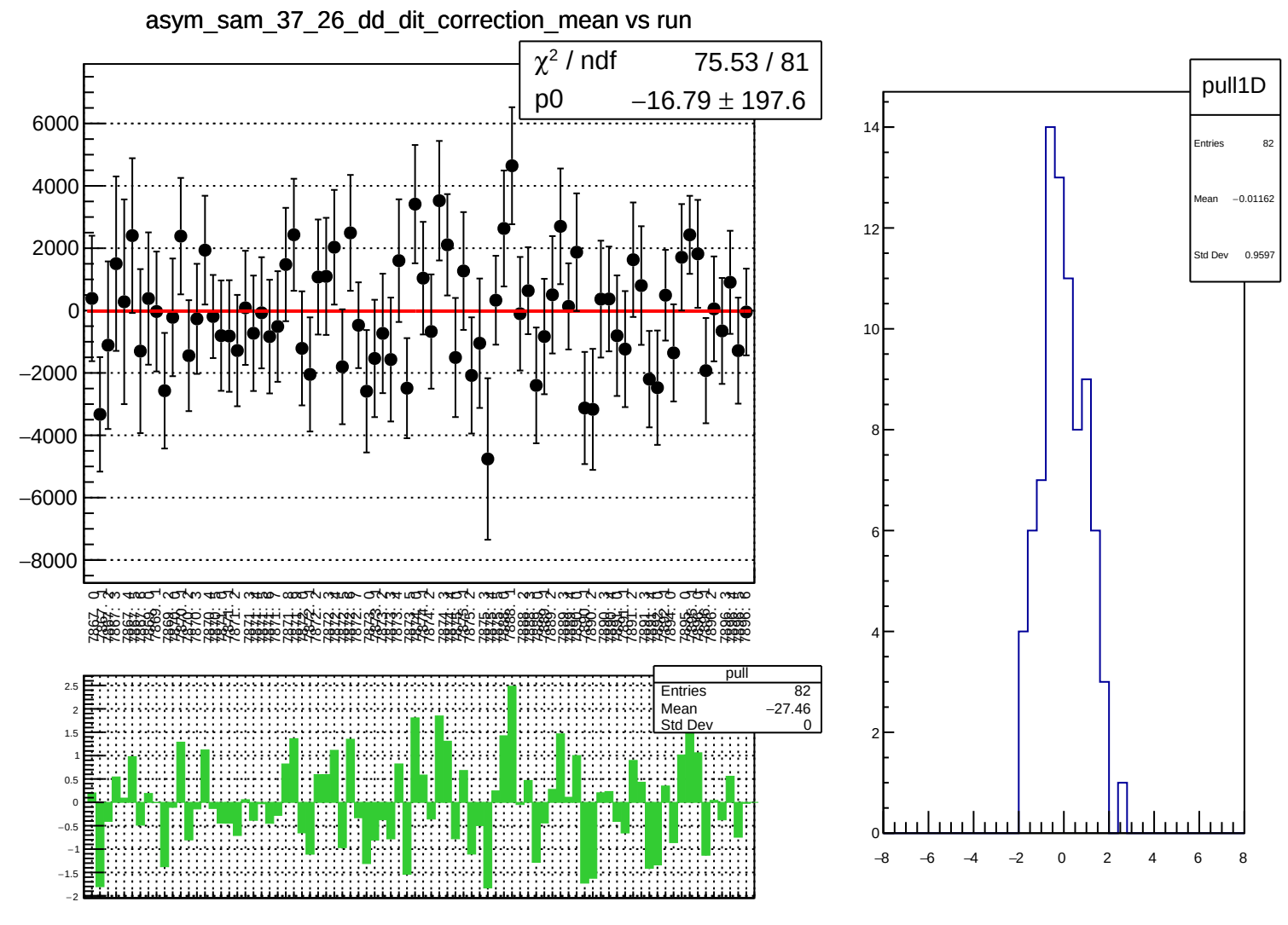

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.24 / 81
p0 −90.41 ± 218.6
pull
Entries 82
Mean −28.13
Std Dev 0
pull1D
Entries 82
Mean −0.01238
Std Dev 0.9514

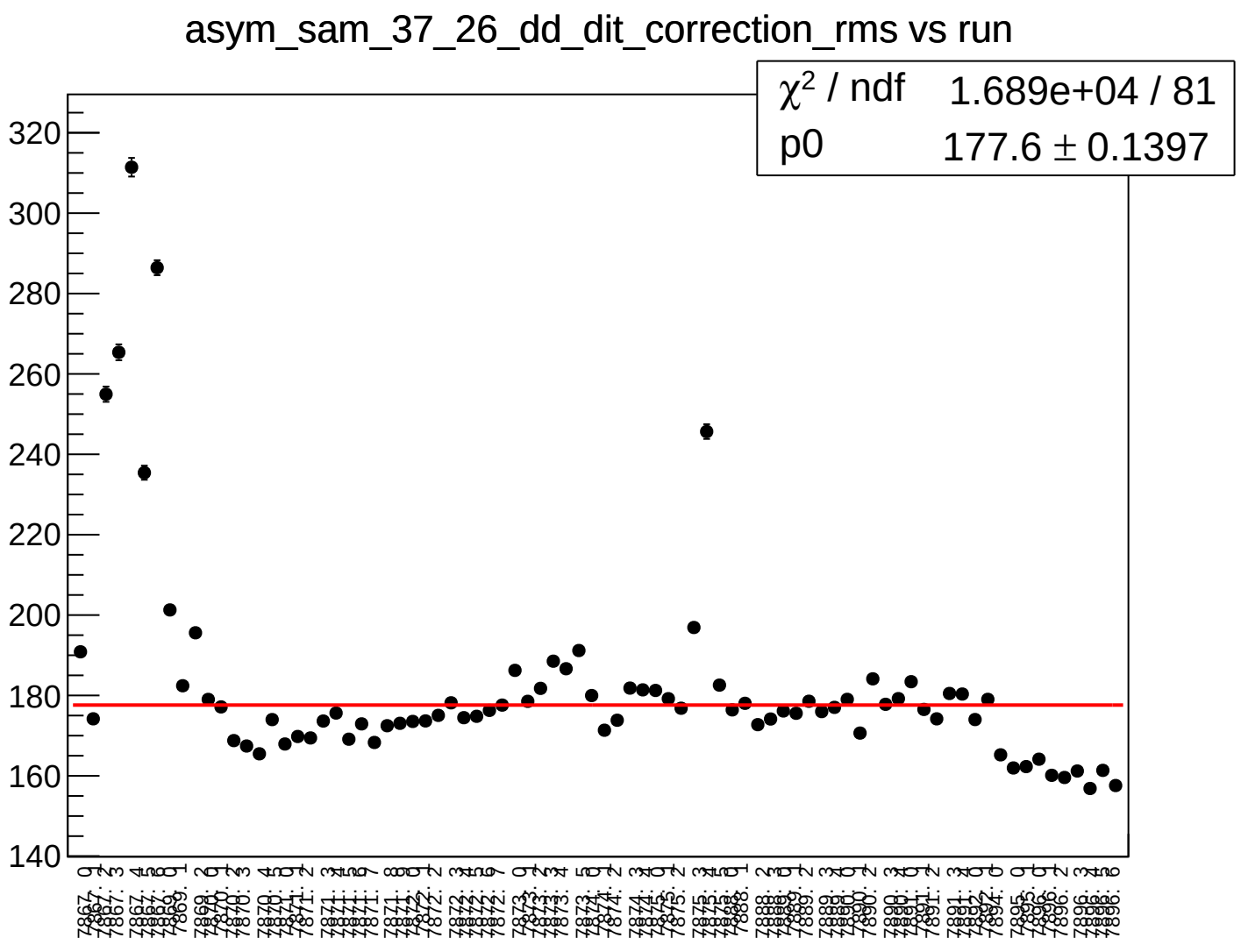

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.181e+04 / 81
p0 196.2 ± 0.1546
350
300
250
200
150

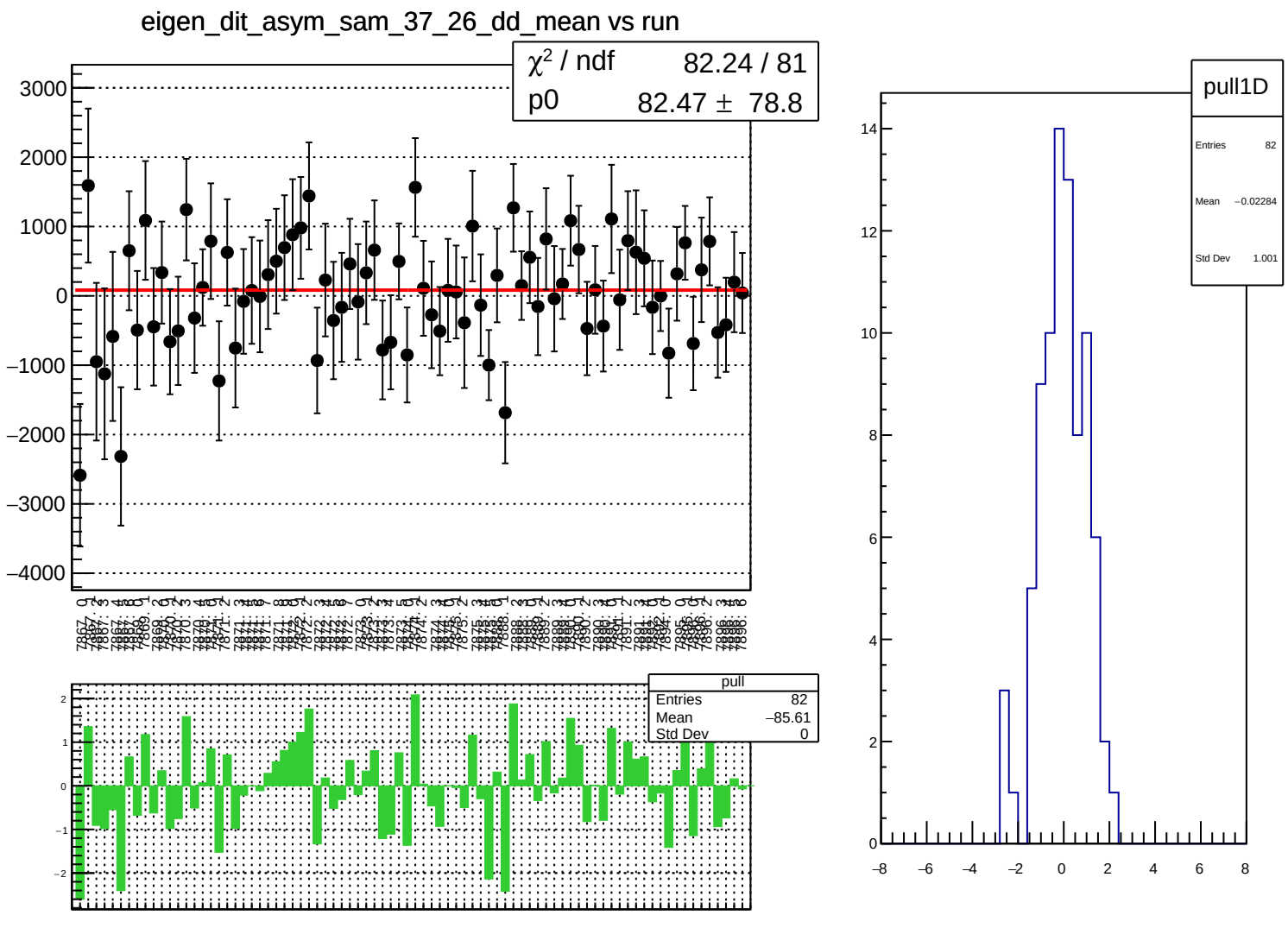

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 82.24 / 81
p0 82.47 ± 78.8
pull
Entries 82
Mean −85.61
Std Dev 0

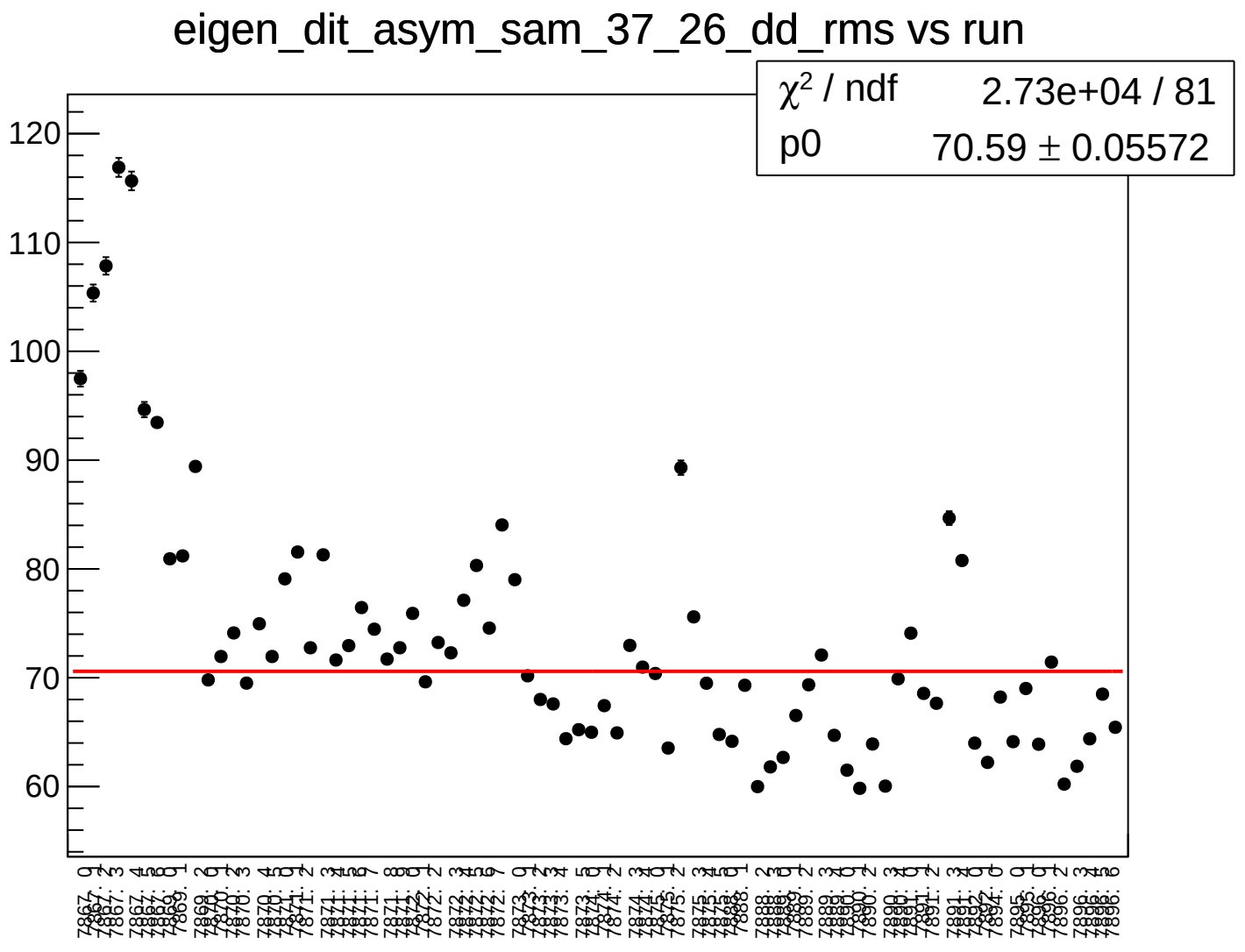

pull1D
Entries 82
Mean −0.02284
Std Dev 1.001

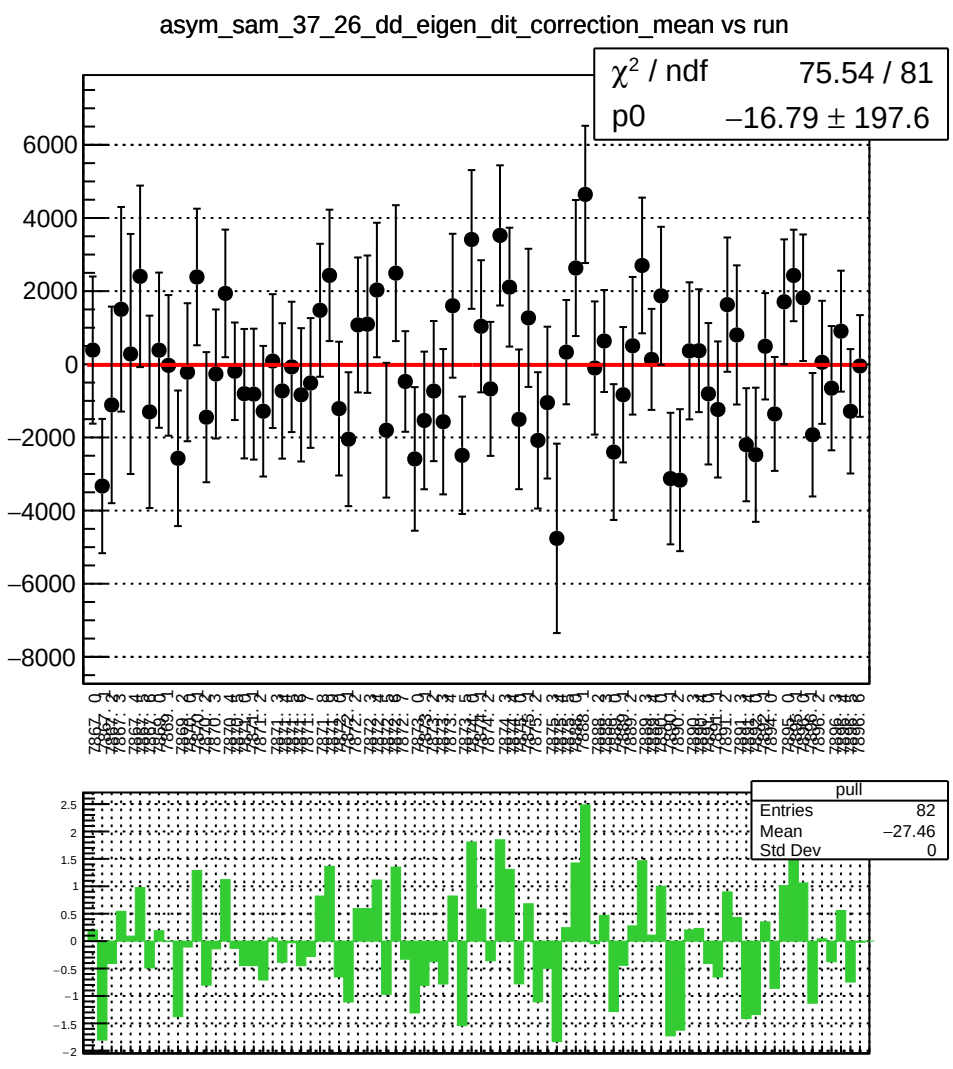

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.73e+04 / 81
p0 70.59 ± 0.05572
120
110
100
90
80
70
60

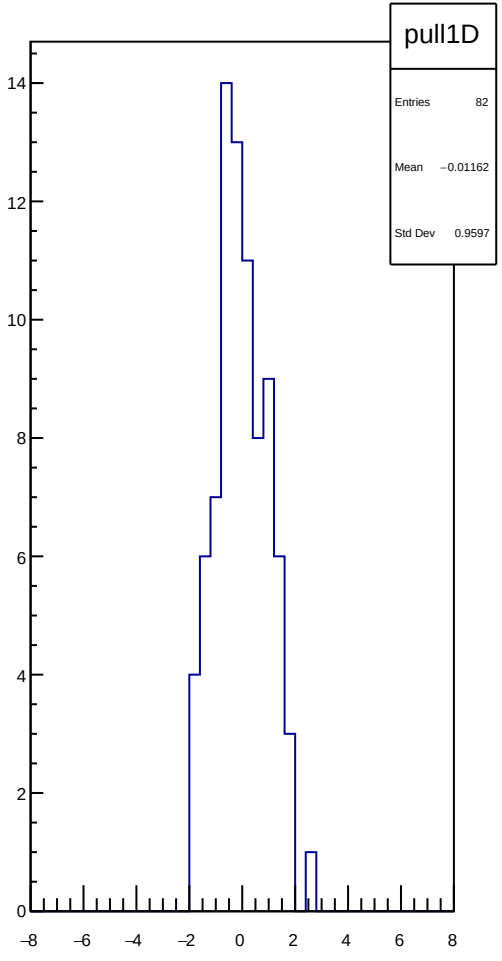

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 75.53 / 81
p0 −16.79 ± 197.6
pull
Entries 82
Mean −27.46
Std Dev 0
pull1D
Entries 82
Mean −0.01162
Std Dev 0.9597

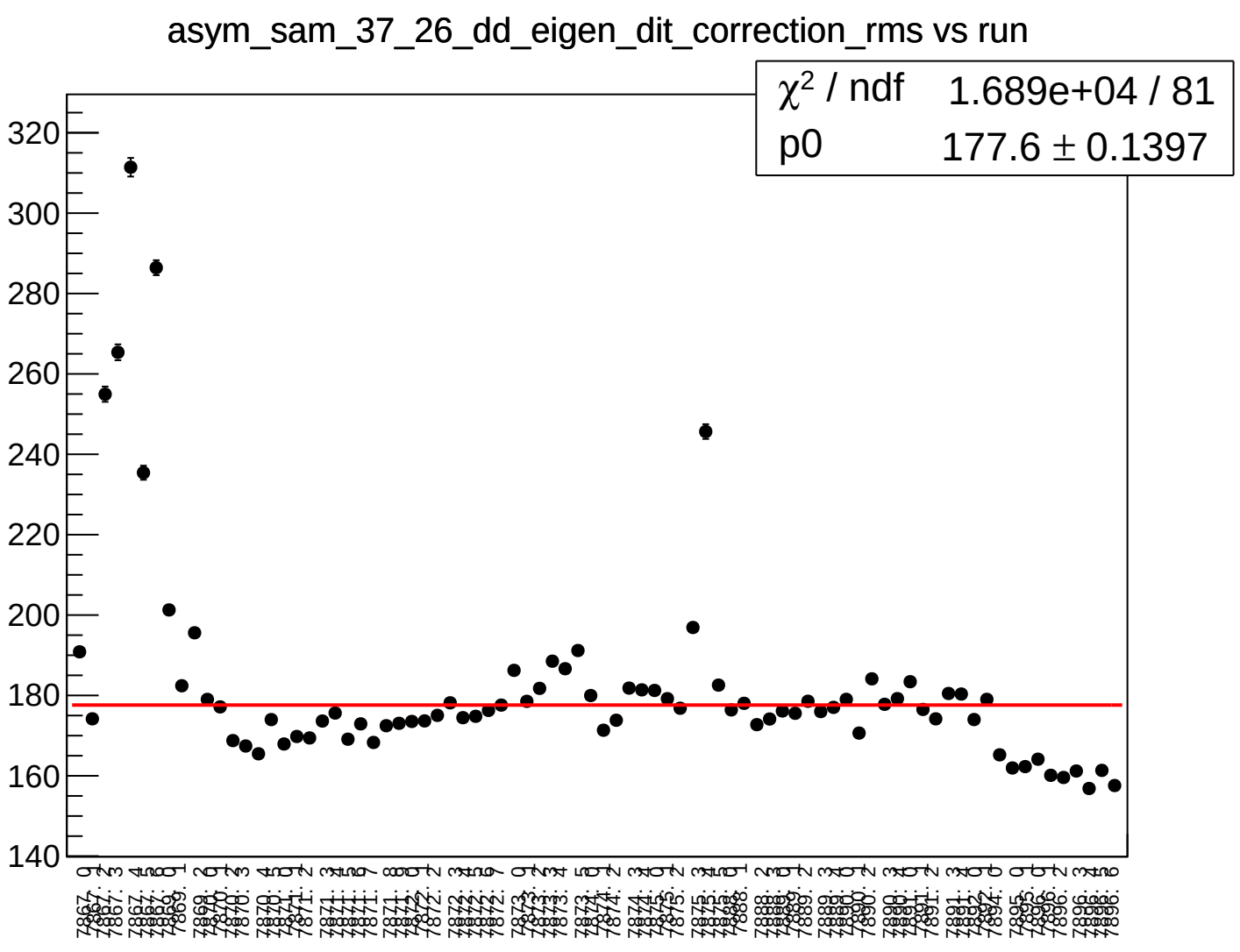

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.689e+04 / 81
p0 177.6 ± 0.1397
320
300
280
260
240
220
200
180
160
140

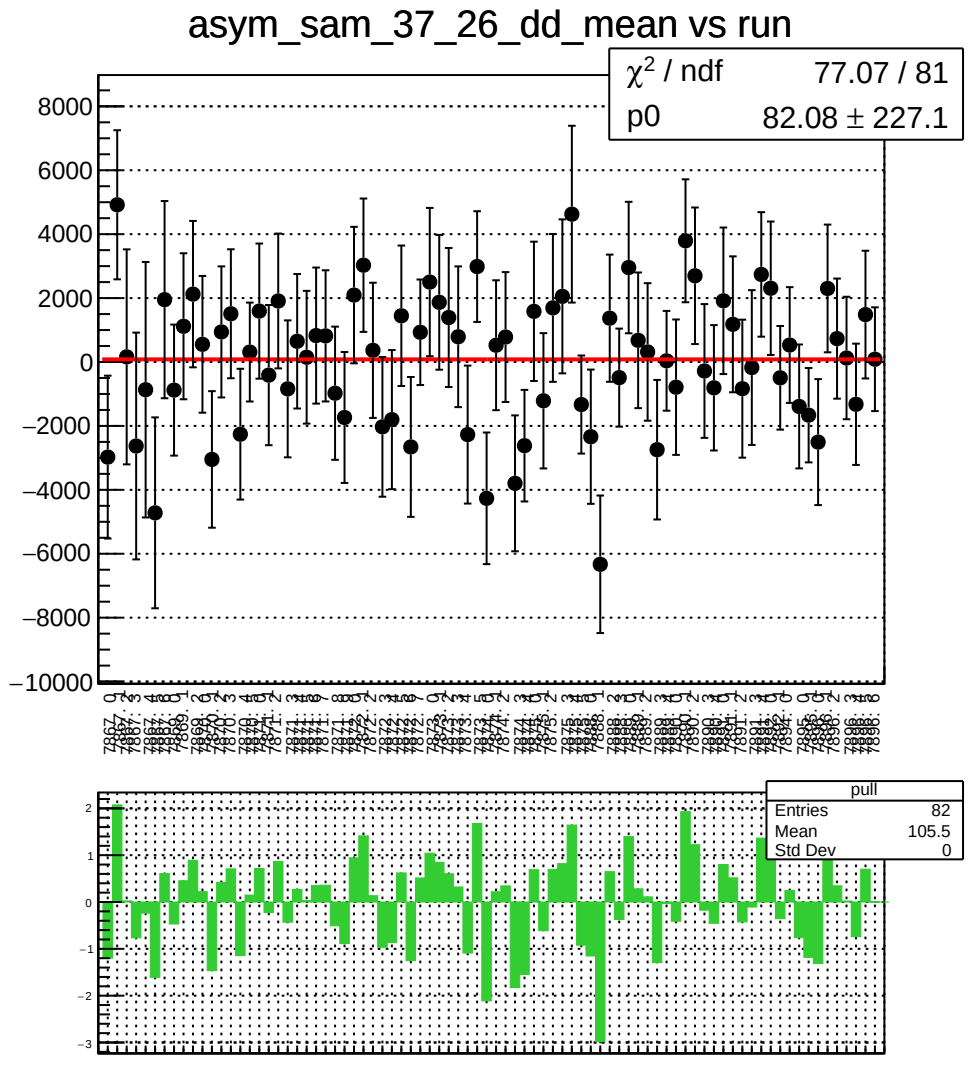

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 82.24 / 81
p0 82.47 ± 78.8
pull
Entries 82
Mean −85.61
Std Dev 0
pull1D
Entries 82
Mean −0.02284
Std Dev 1.001

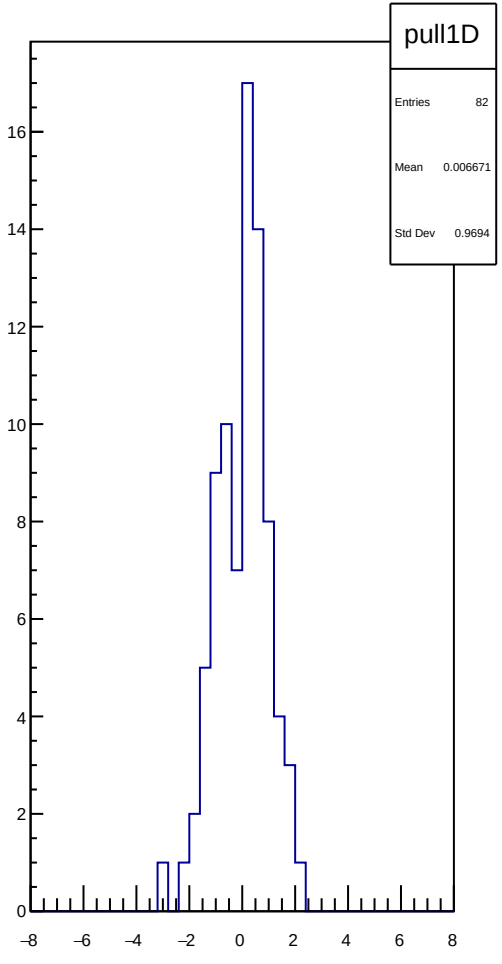

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.73e+04 / 81
p0 70.59 ± 0.05572
120
110
100
90
80
70
60

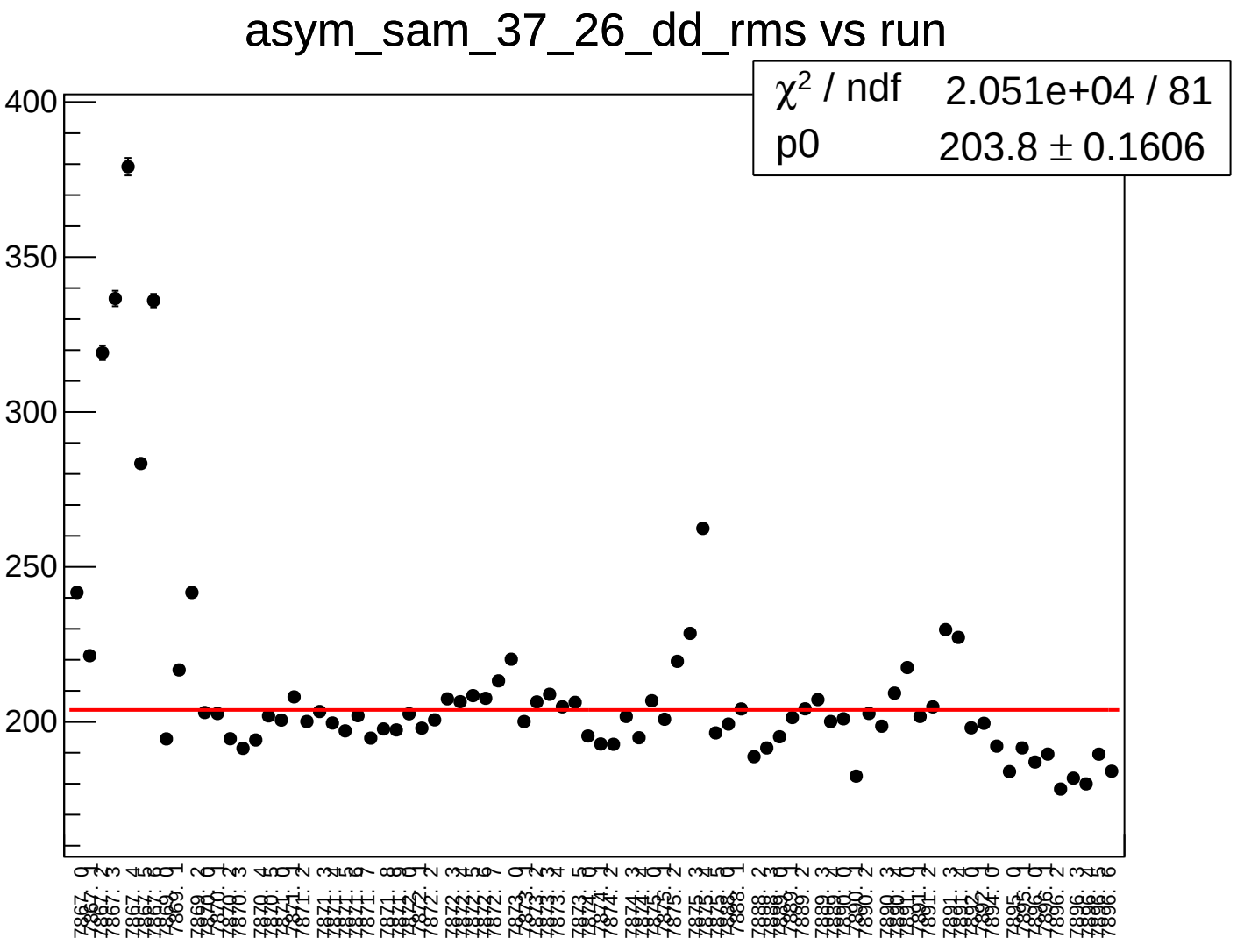

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.54 / 81
p0 −16.79 ± 197.6
pull
Entries 82
Mean −27.46
Std Dev 0

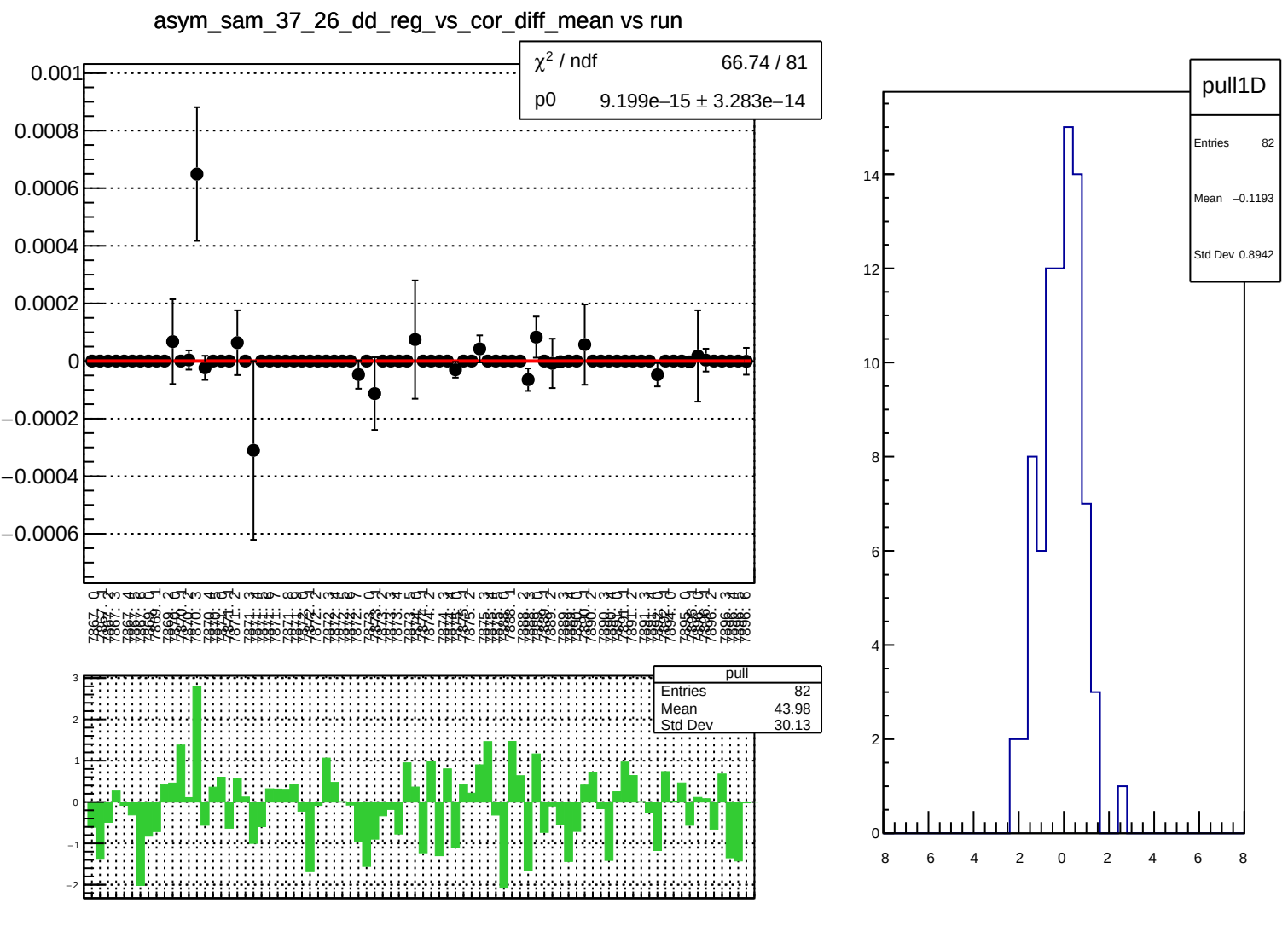

pull1D
Entries 82
Mean −0.01162
Std Dev 0.9597

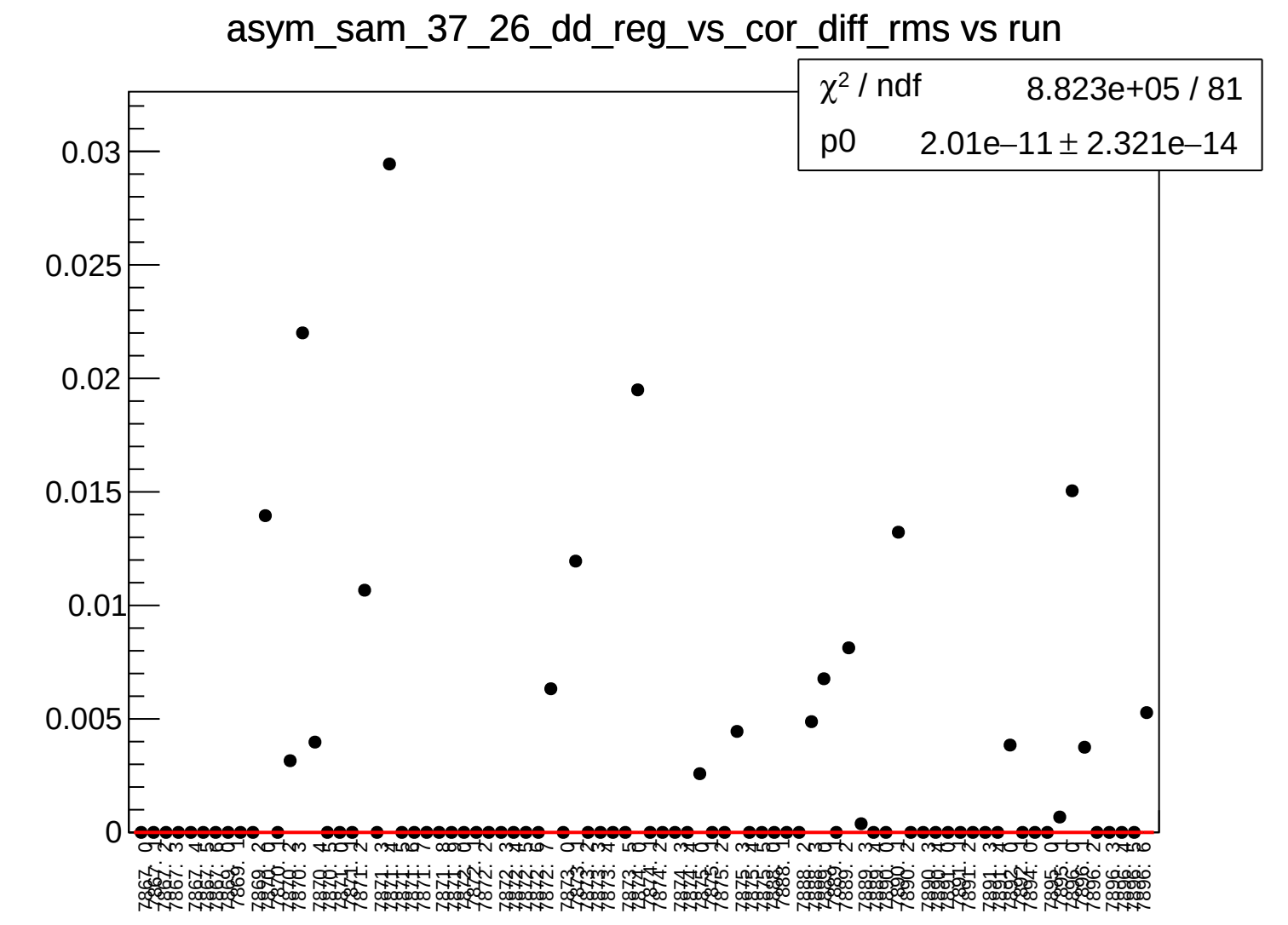

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.689e+04 / 81
p0 177.6 ± 0.1397
320
300
280
260
240
220
200
180
160
140

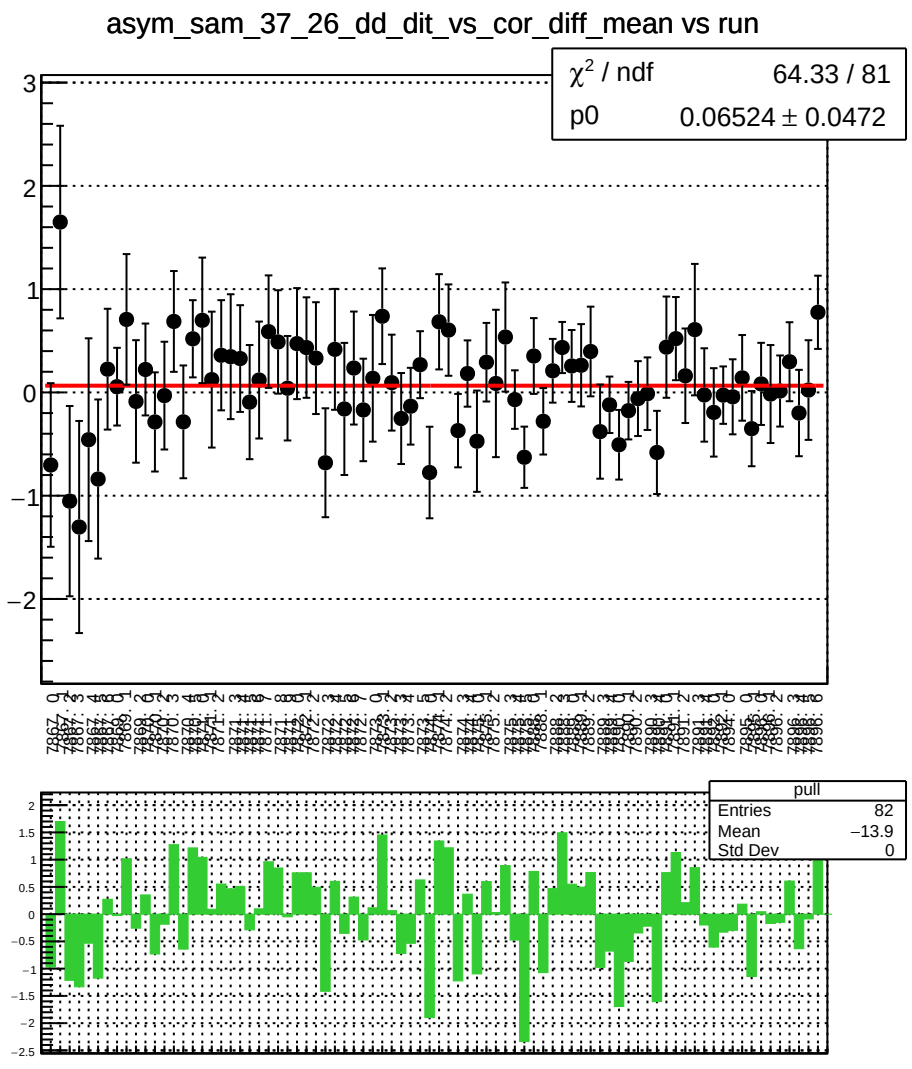

asym_sam_37_26_dd_mean vs run
χ² / ndf 77.07 / 81
p0 82.08 ± 227.1
pull
Entries 82
Mean 105.5
Std Dev 0

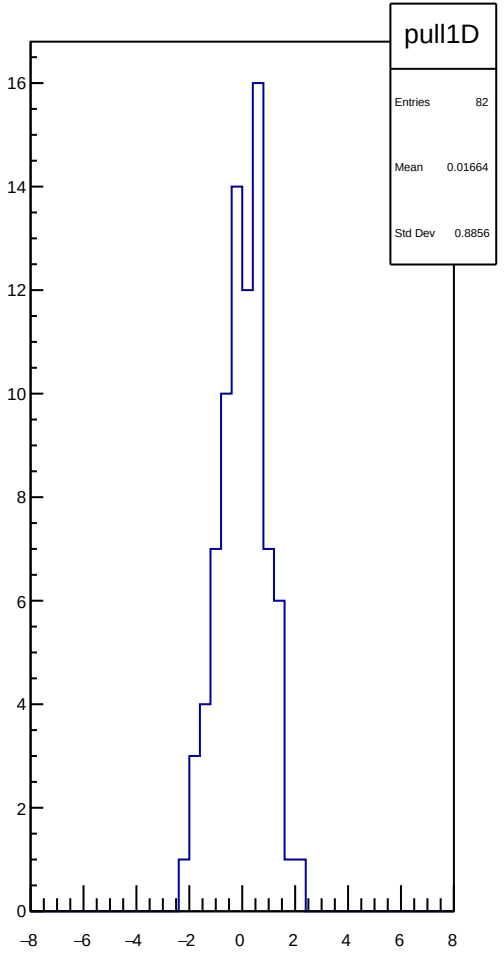

pull1D
Entries 82
Mean 0.006671
Std Dev 0.9694

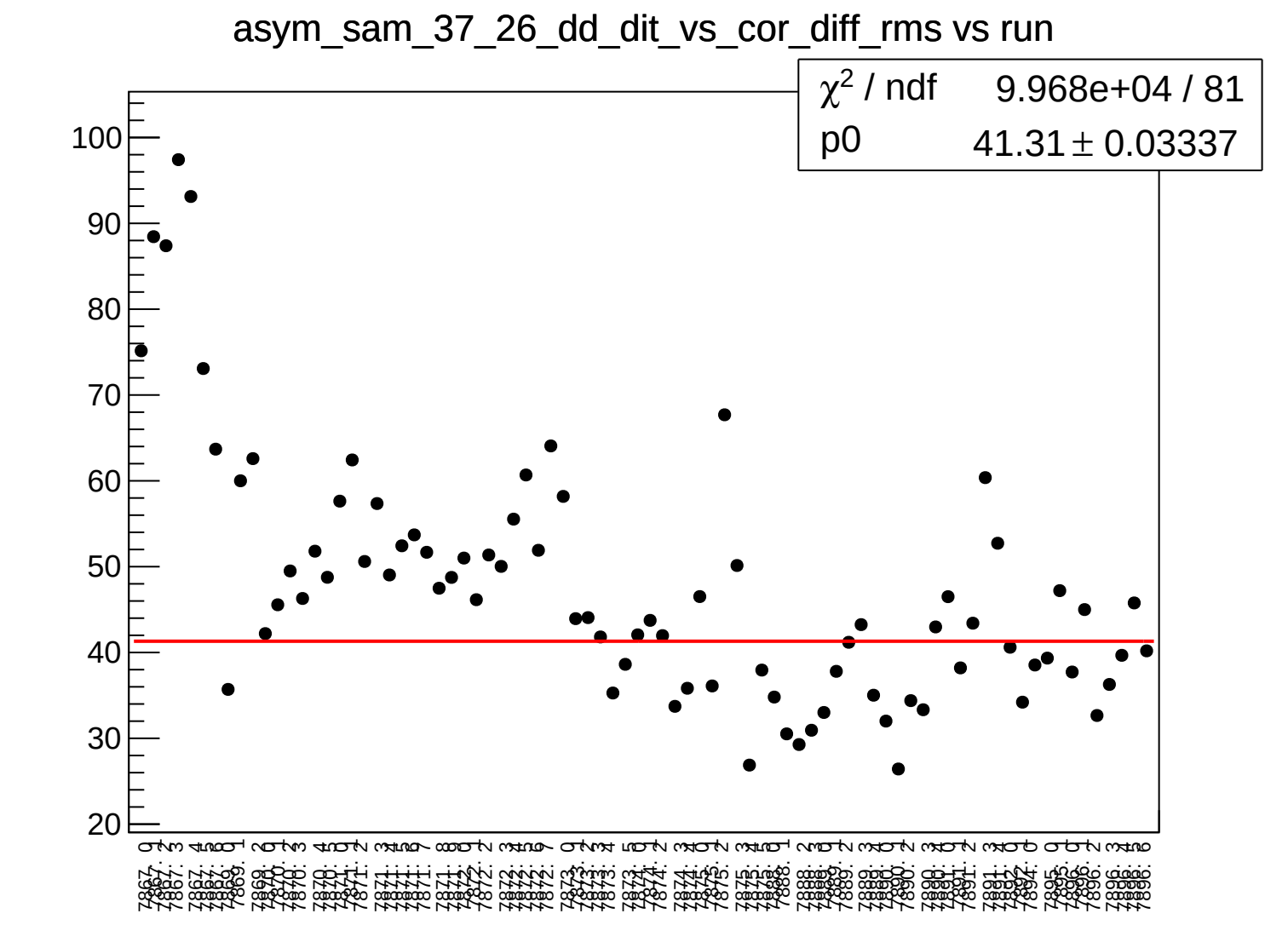

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.051e+04 / 81
p0 203.8 ± 0.1606
400
350
300
250
200

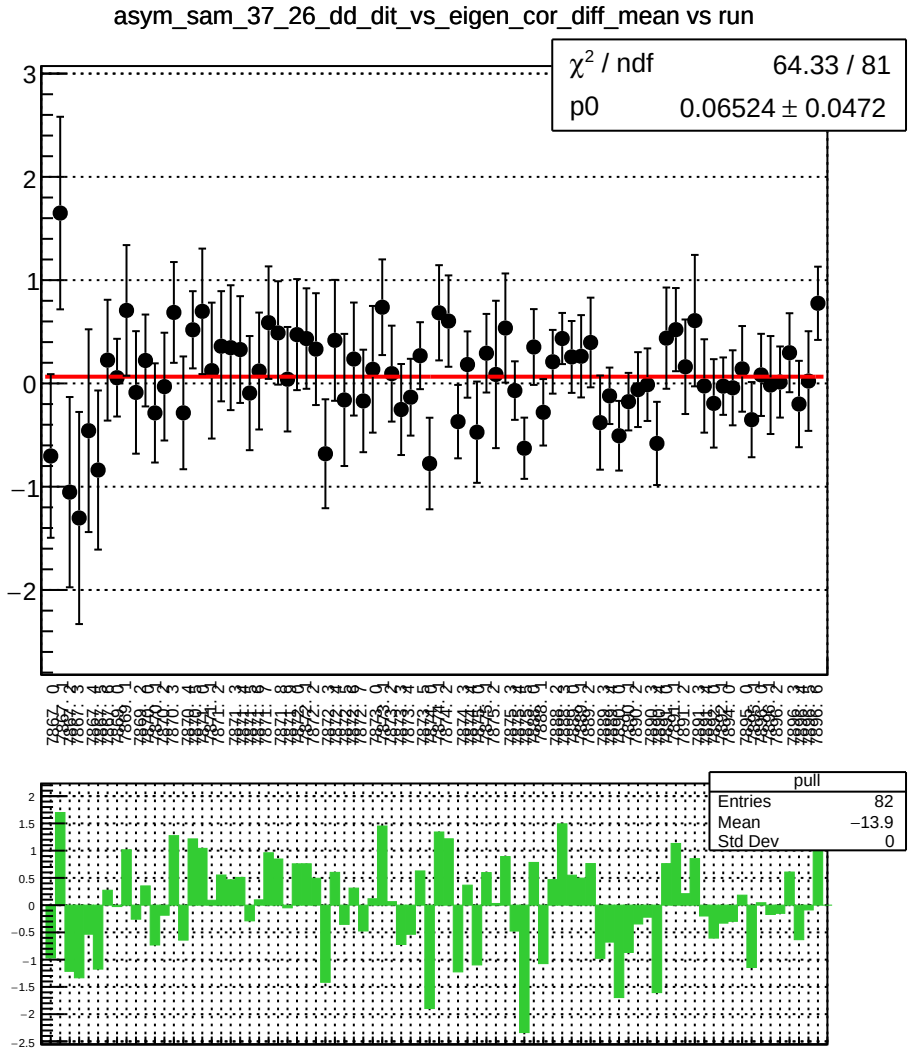

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.74 / 81
p0 9.199e−15 ± 3.283e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 82
Mean 43.98
Std Dev 30.13
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1193
Std Dev 0.8942
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

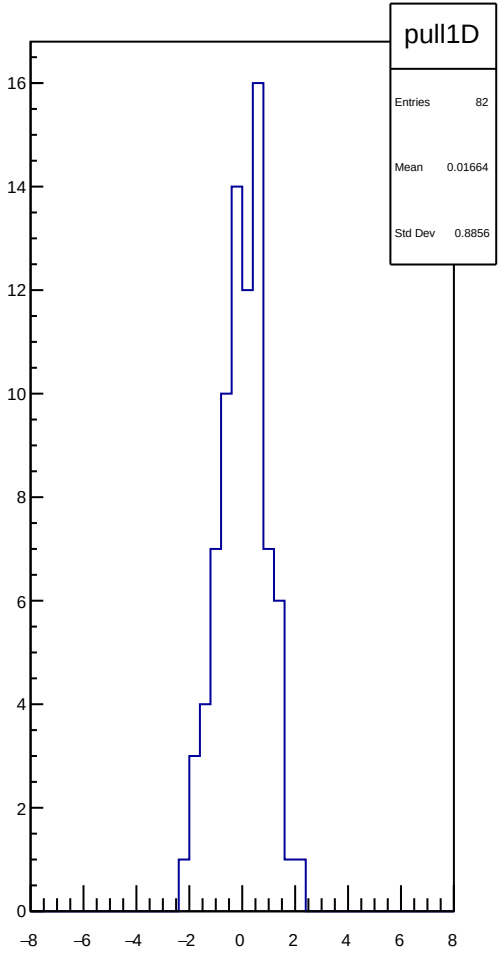

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.823e+05 / 81
p0 2.01e−11 ± 2.321e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

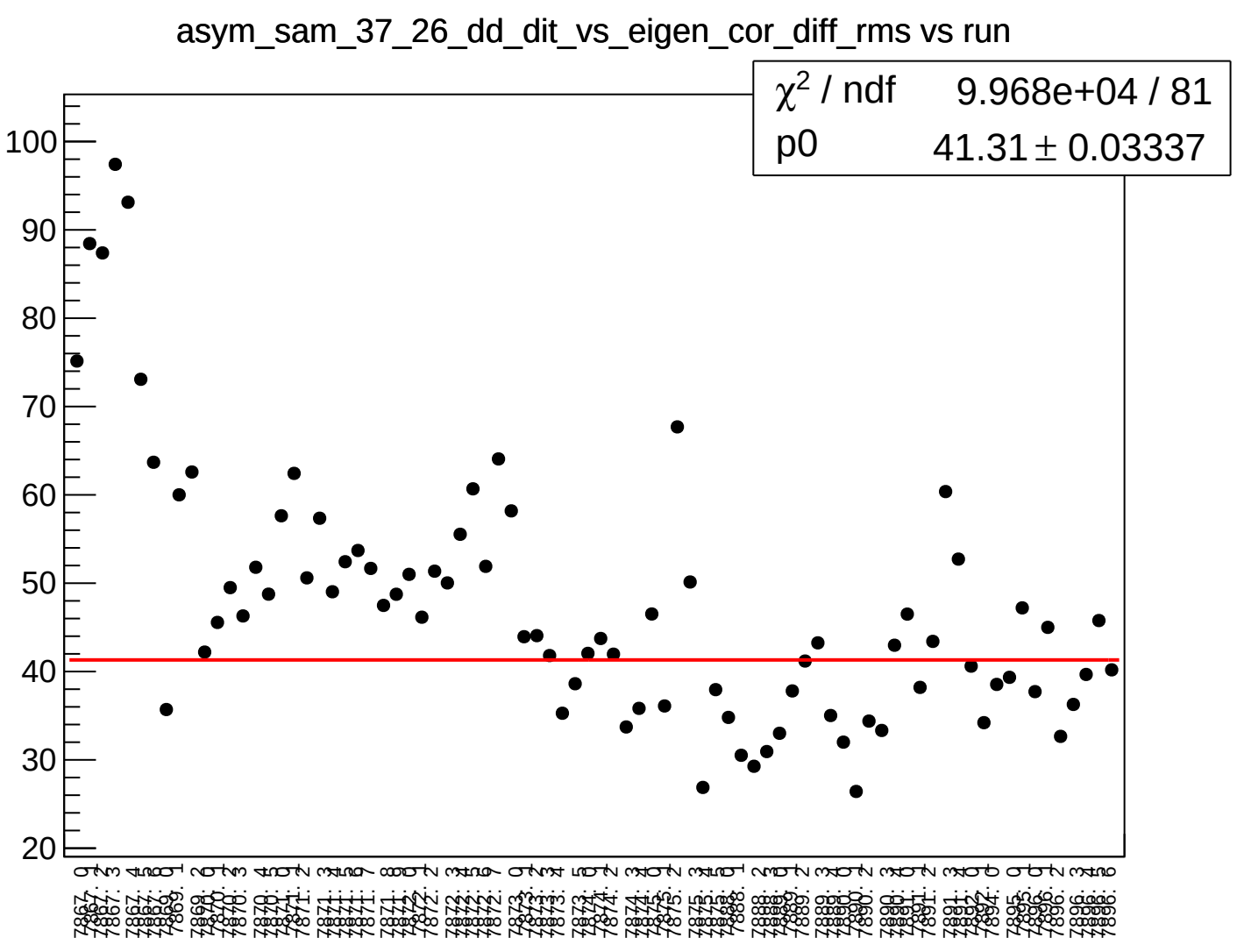

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.33 / 81
p0 0.06524 ± 0.0472
pull
Entries 82
Mean −13.9
Std Dev 0

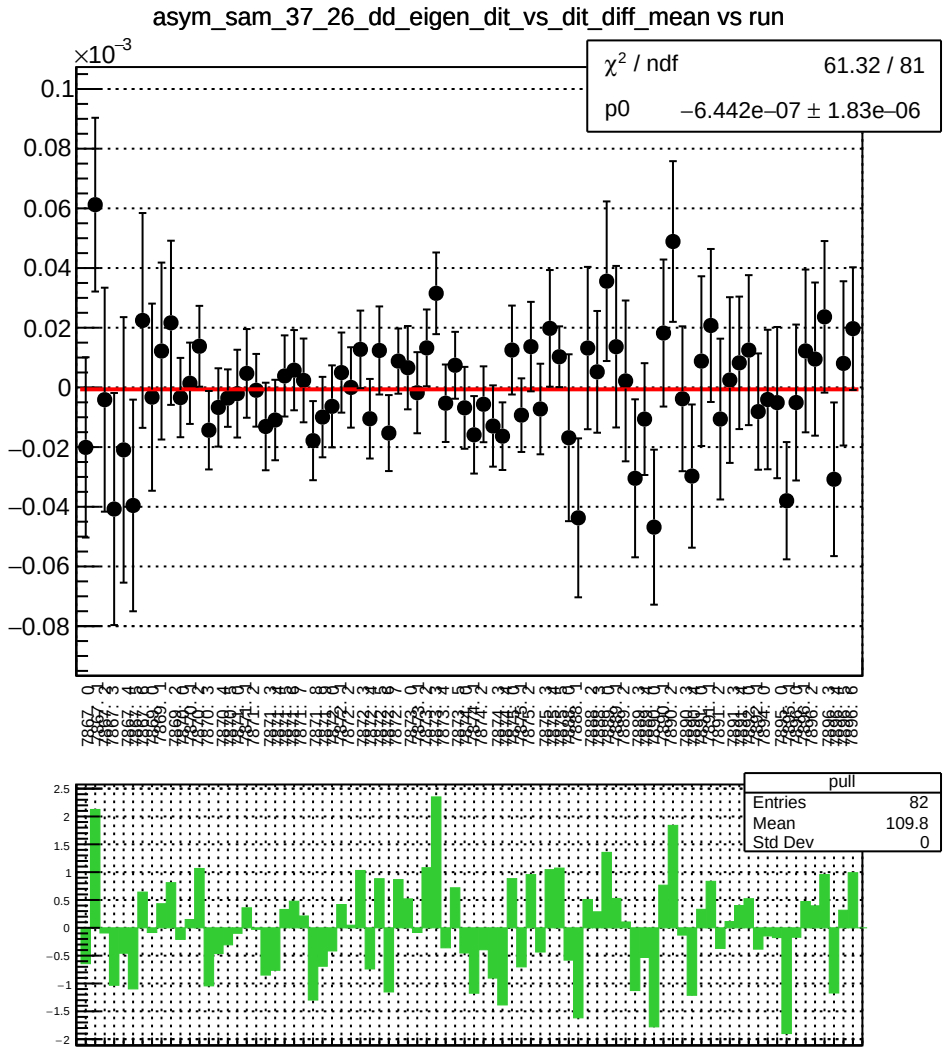

pull1D
Entries 82
Mean 0.01664
Std Dev 0.8856

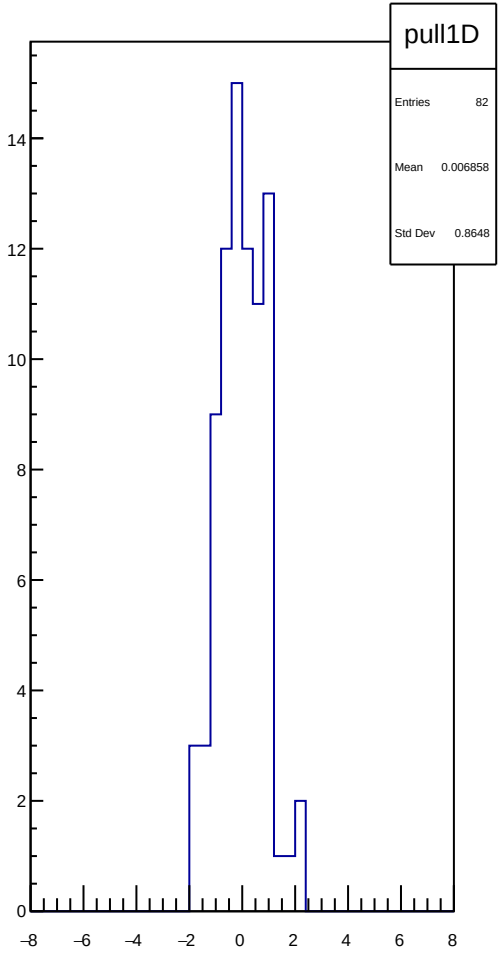

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.968e+04 / 81
p0 41.31 ± 0.03337
100
90
80
70
60
50
40
30
20

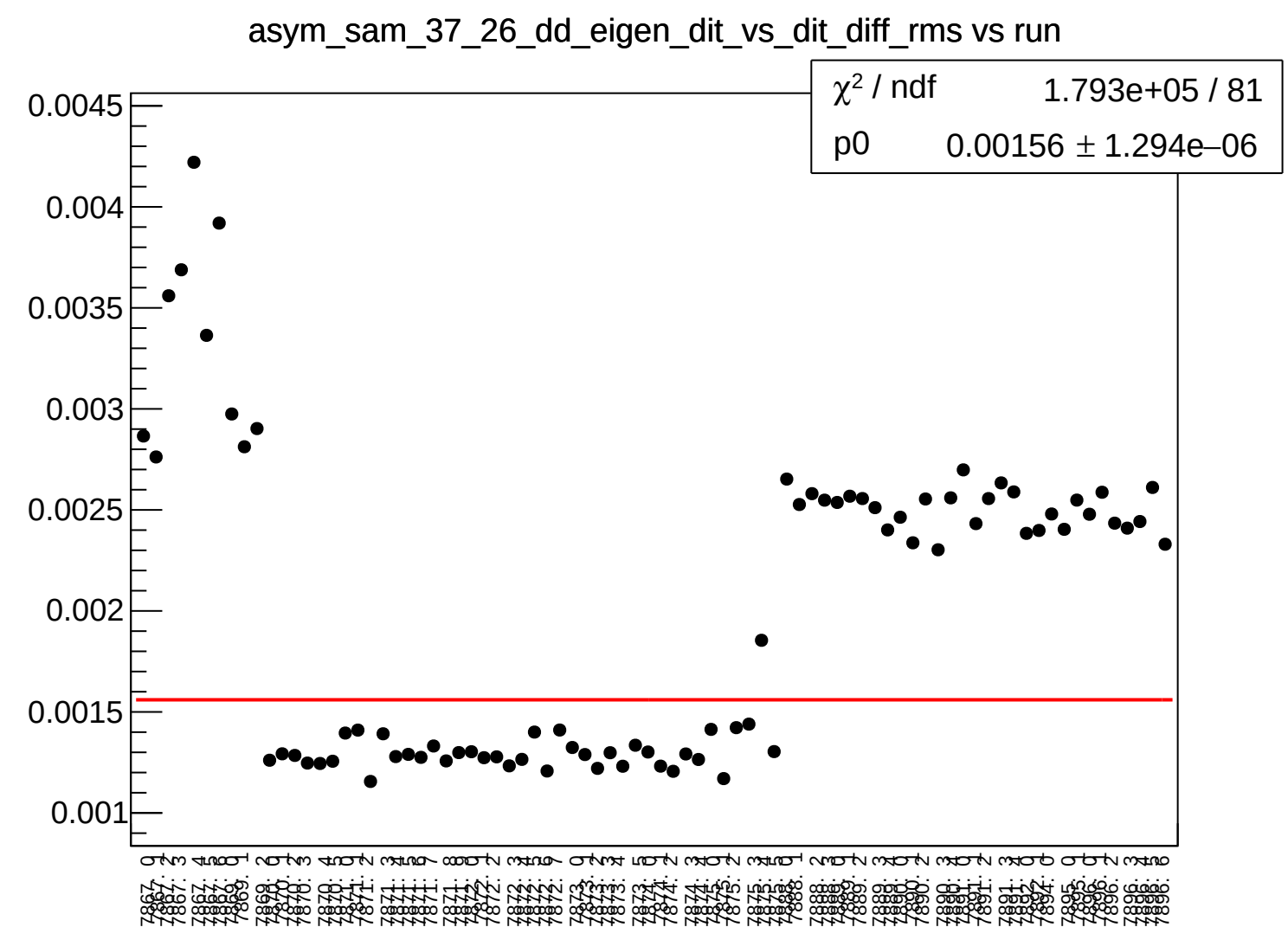

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.33 / 81
p0 0.06524 ± 0.0472
pull
Entries 82
Mean −13.9
Std Dev 0

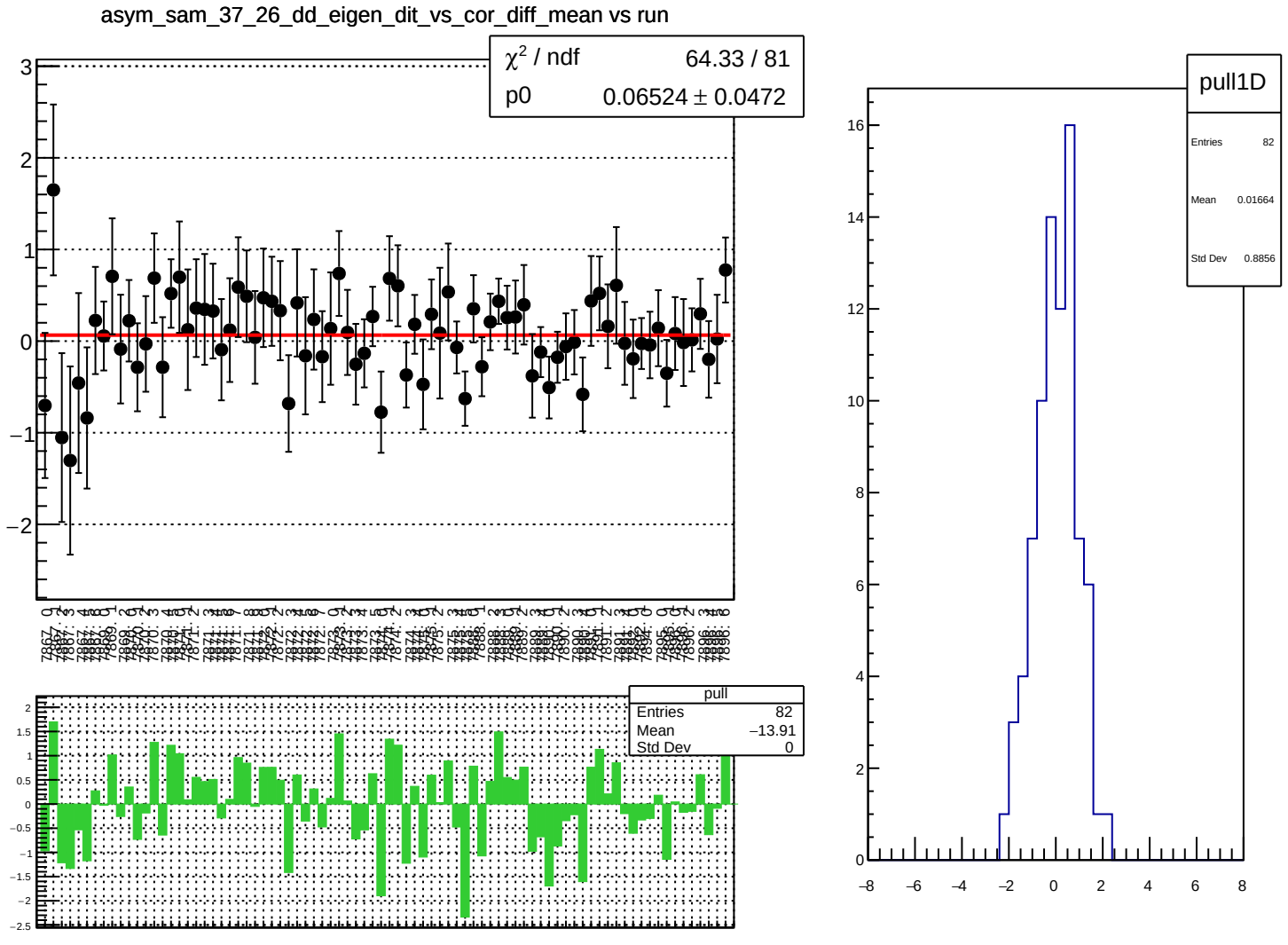

pull1D
Entries 82
Mean 0.01664
Std Dev 0.8856

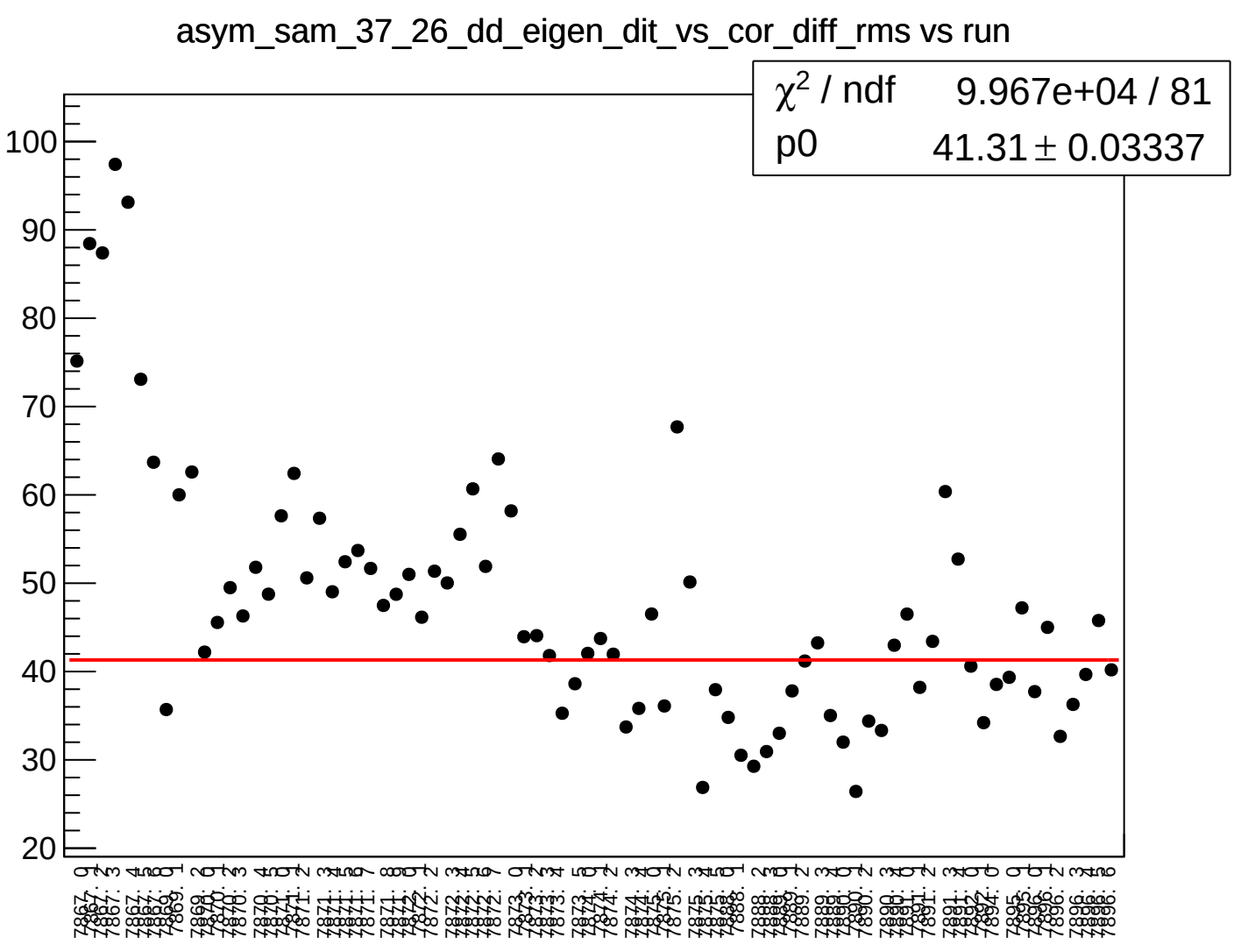

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.968e+04 / 81
p0 41.31 ± 0.03337
100
90
80
70
60
50
40
30
20

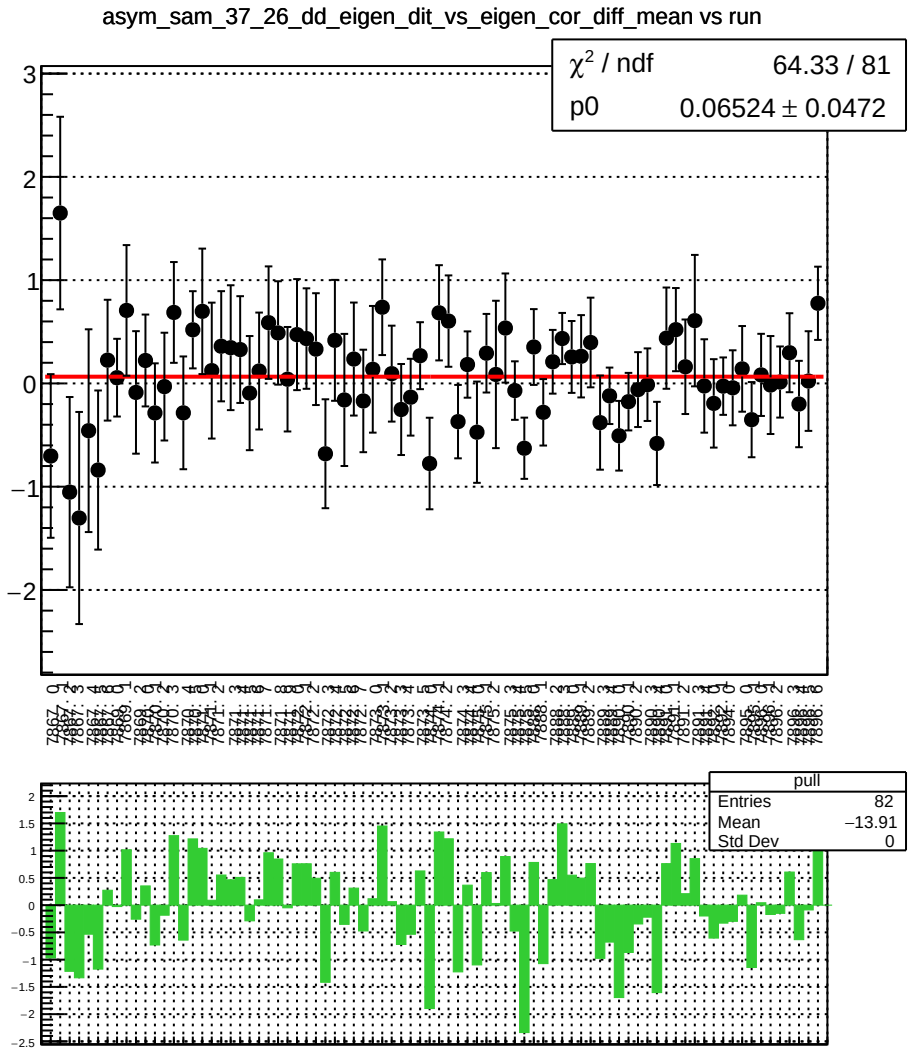

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.32 / 81
p0 −6.442e−07 ± 1.83e−06
pull
Entries 82
Mean 109.8
Std Dev 0

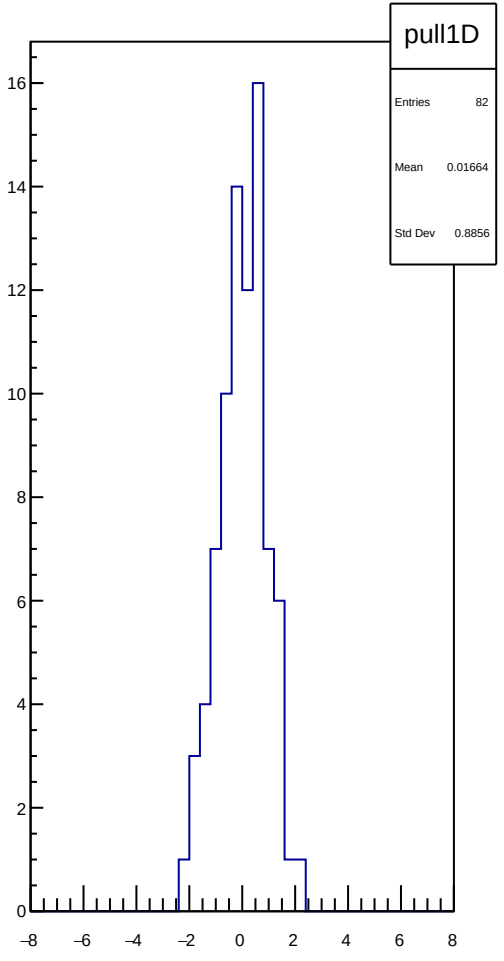

pull1D
Entries 82
Mean 0.006858
Std Dev 0.8648

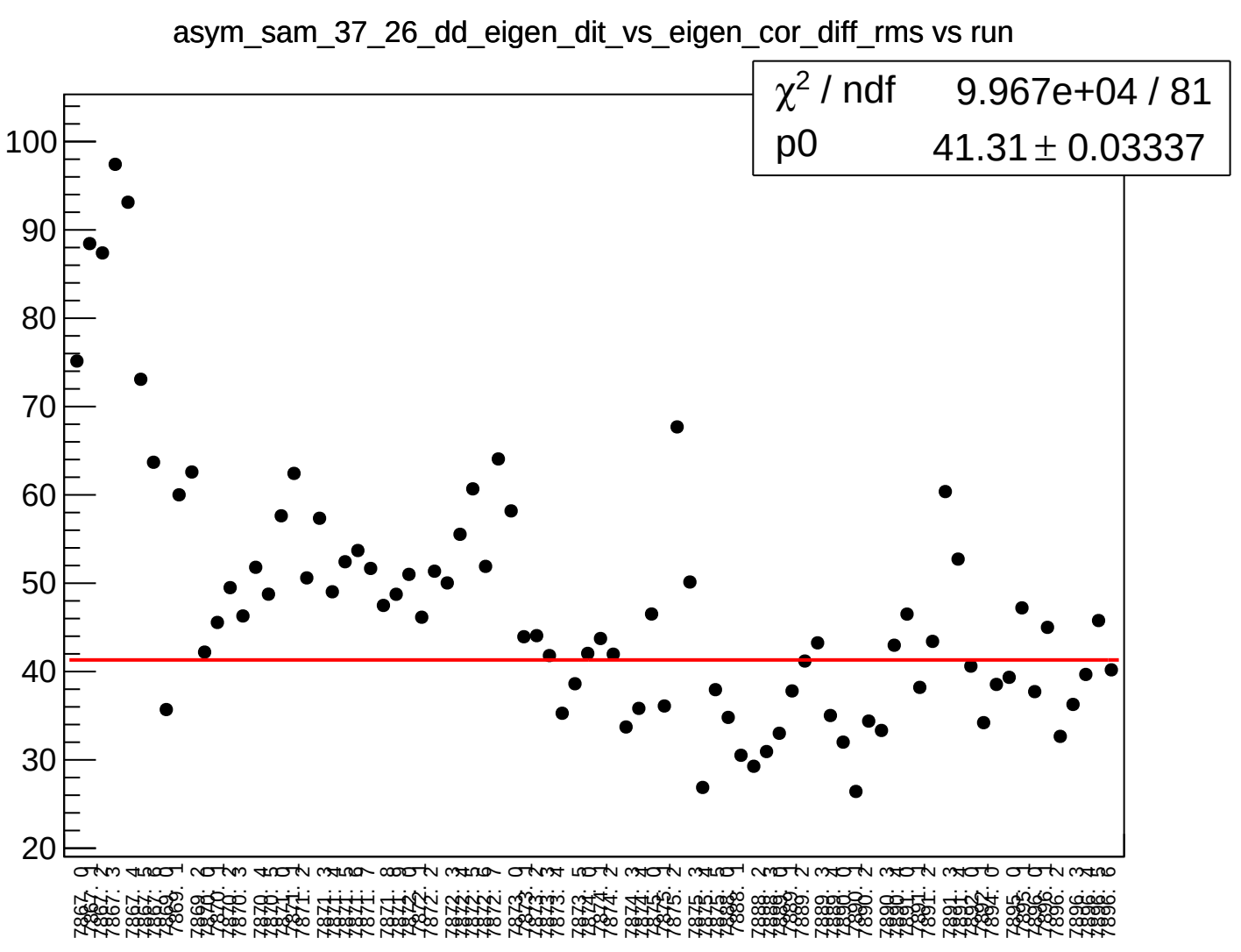

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.793e+05 / 81
p0 0.00156 ± 1.294e–06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

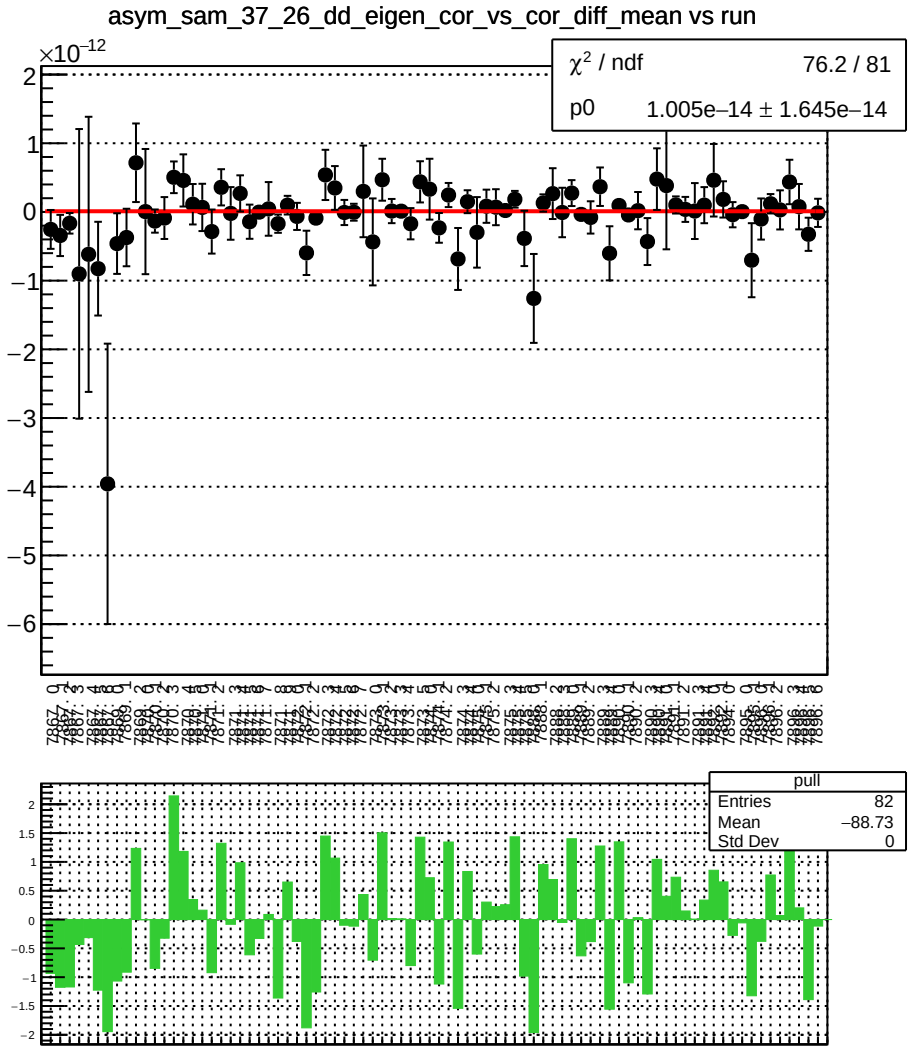

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.33 / 81
p0 0.06524 ± 0.0472
pull
Entries 82
Mean −13.91
Std Dev 0
pull1D
Entries 82
Mean 0.01664
Std Dev 0.8856

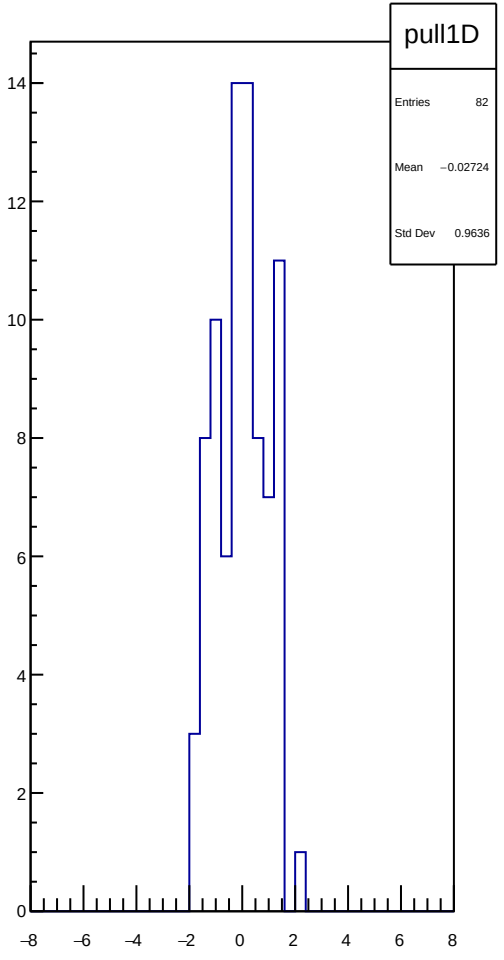

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.967e+04 / 81
p0 41.31 ± 0.03337
100
90
80
70
60
50
40
30
20

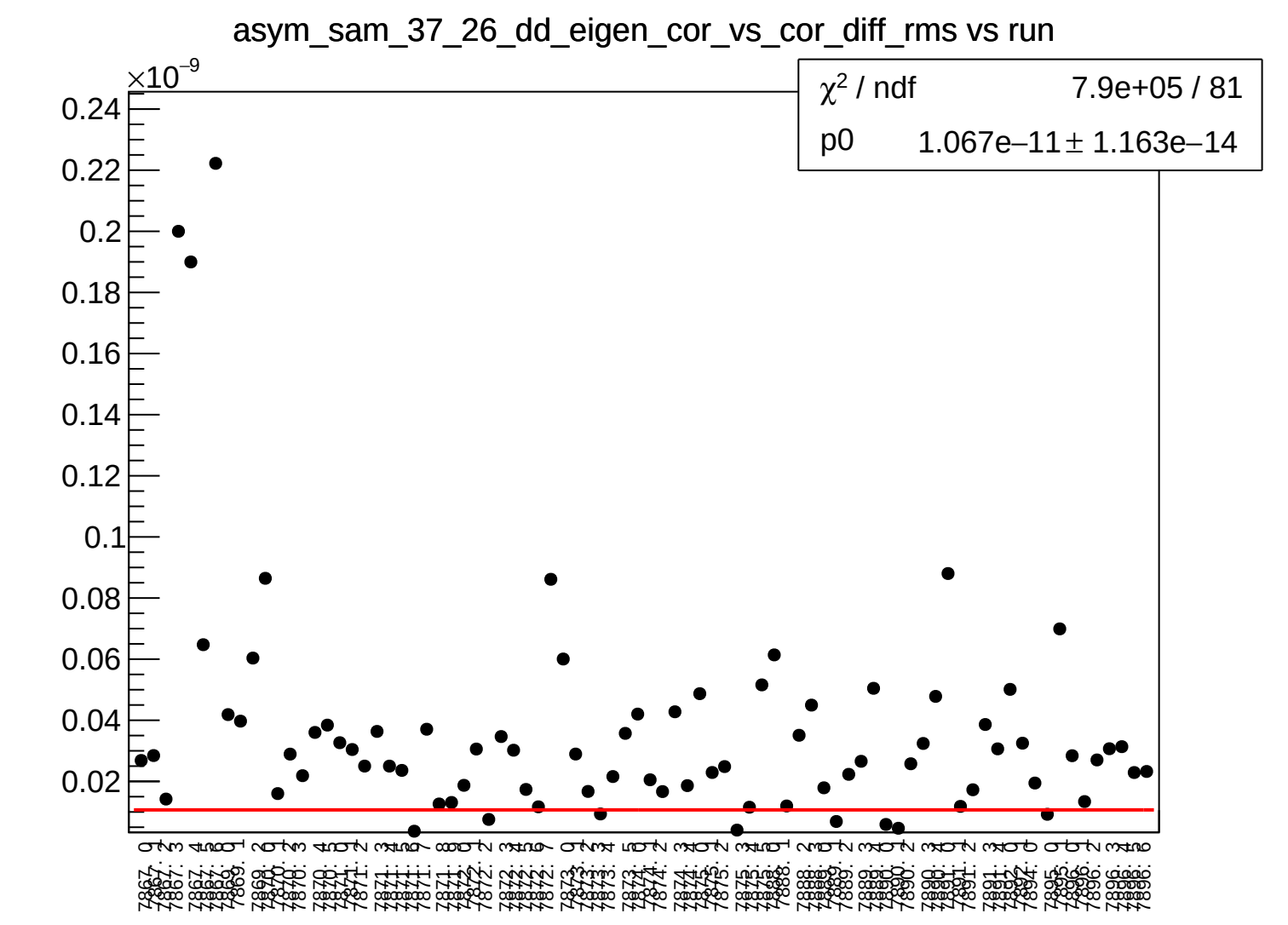

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.33 / 81
p0 0.06524 ± 0.0472
pull
Entries 82
Mean −13.91
Std Dev 0

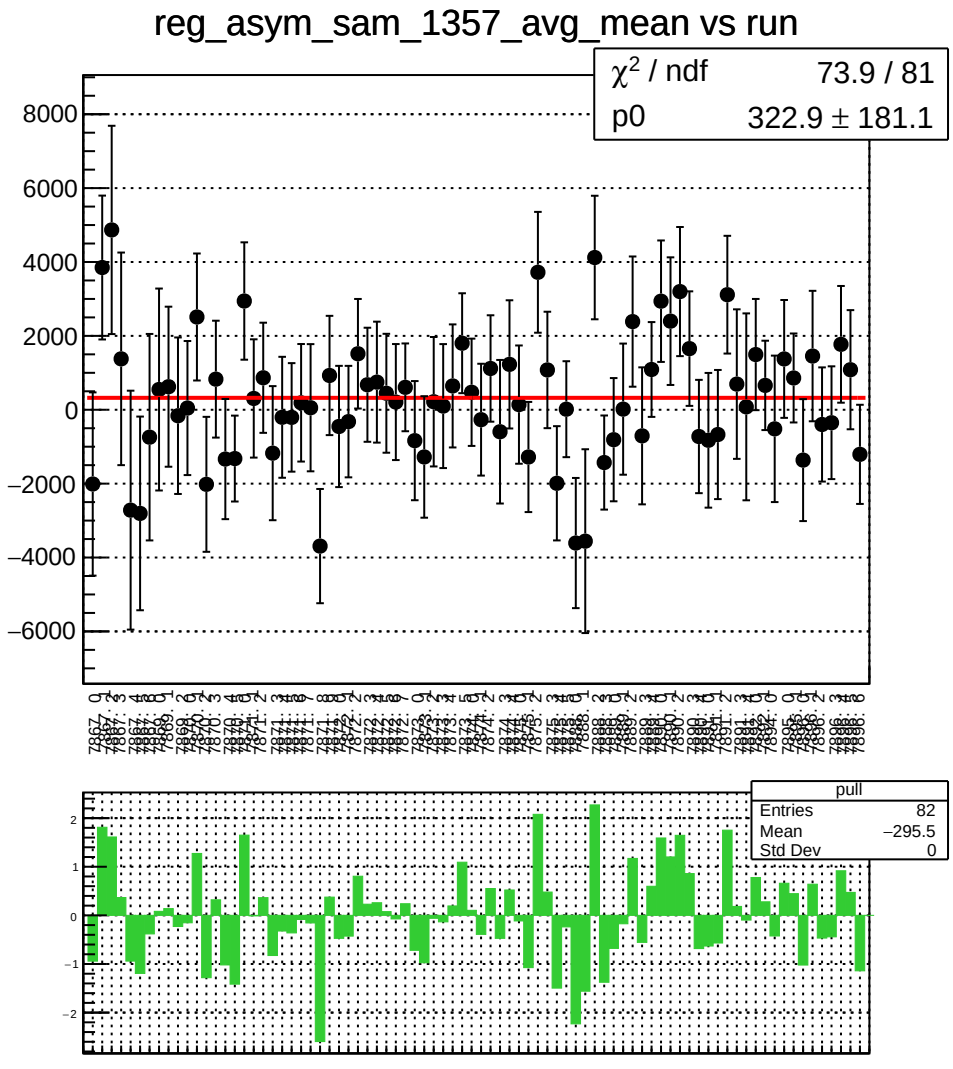

pull1D
Entries 82
Mean 0.01664
Std Dev 0.8856

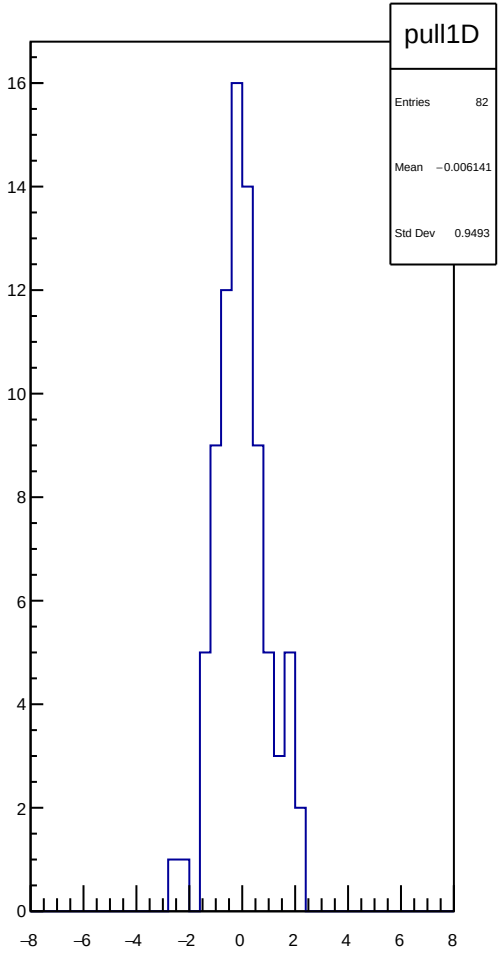

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.967e+04 / 81
p0 41.31 ± 0.03337
100
90
80
70
60
50
40
30
20

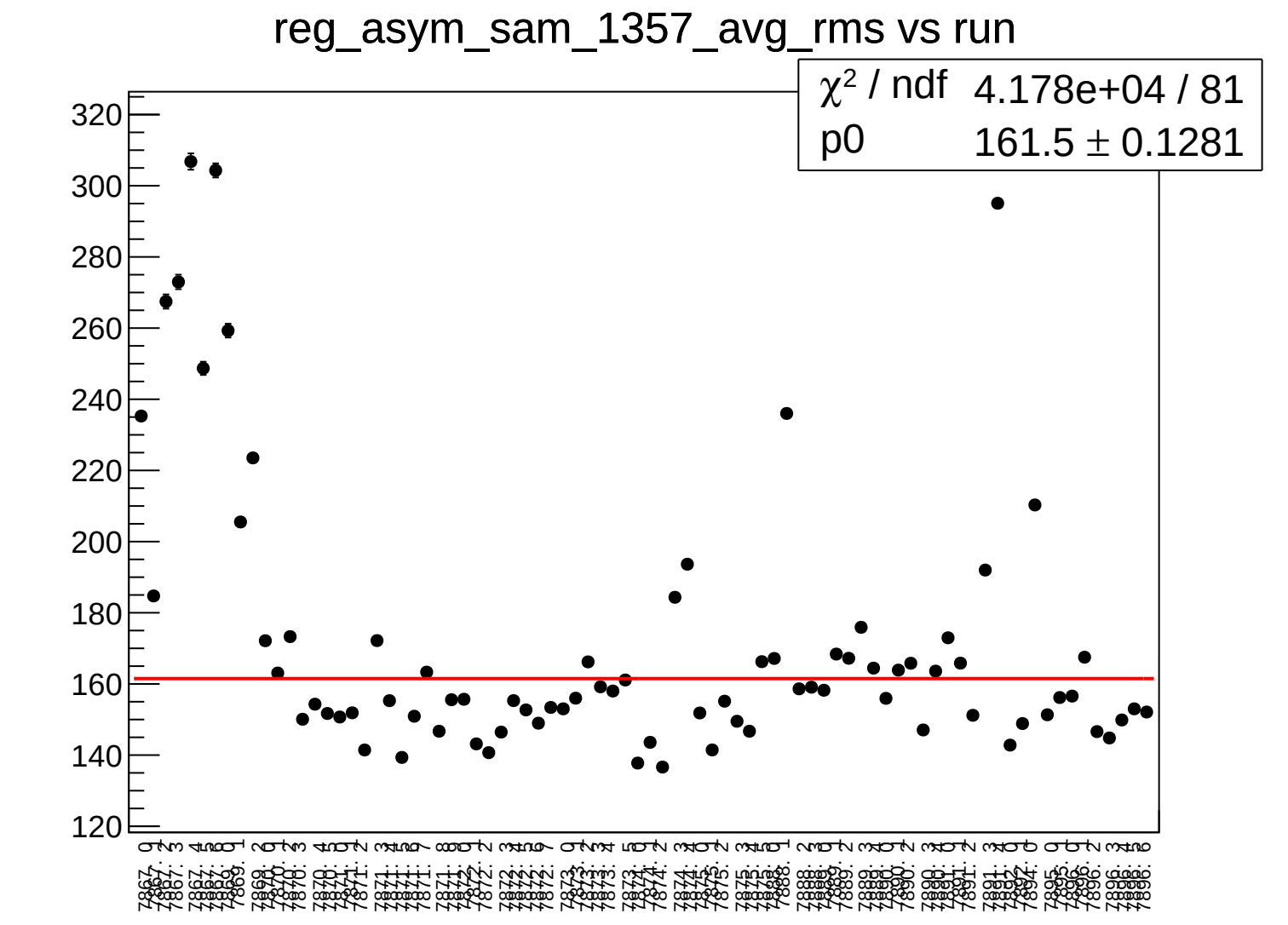

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.2 / 81
p0 1.005e−14 ± 1.645e−14
pull
Entries 82
Mean −88.73
Std Dev 0

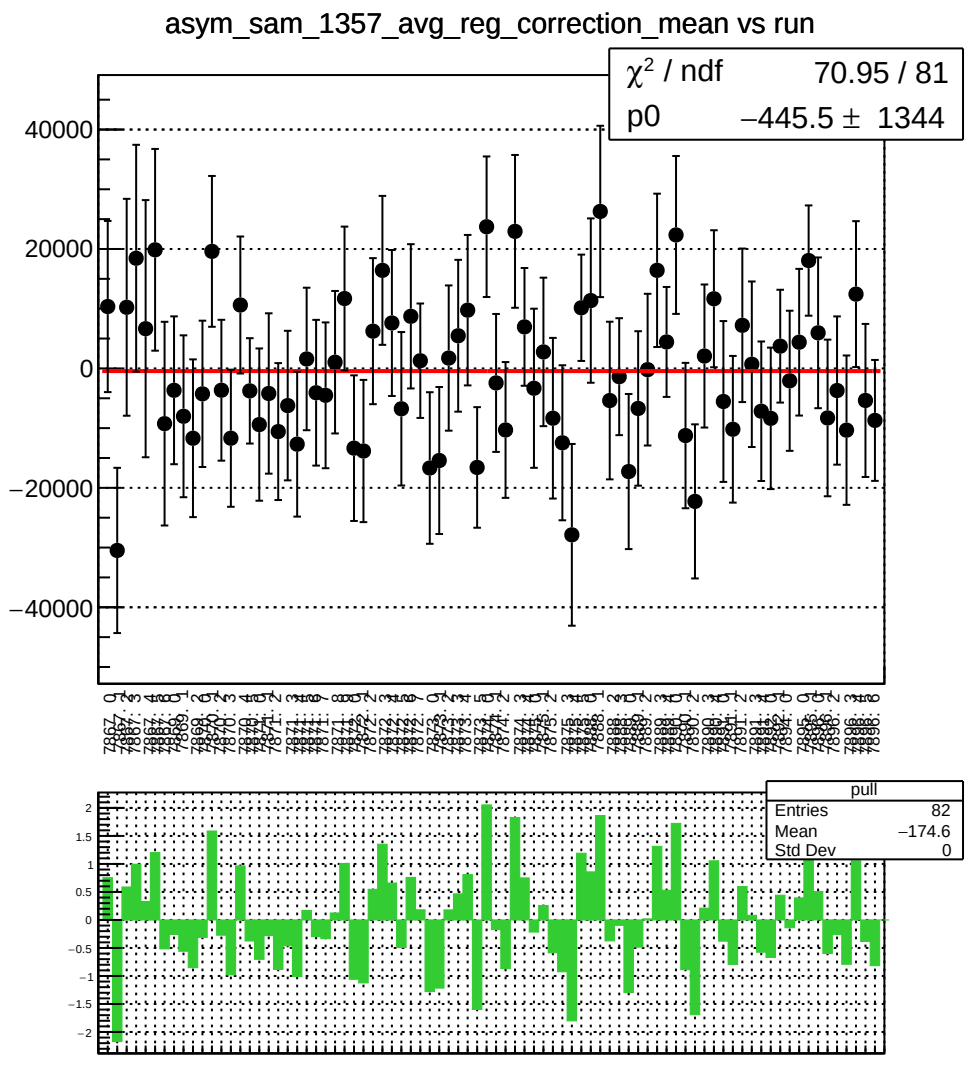

pull1D
Entries 82
Mean −0.02724
Std Dev 0.9636

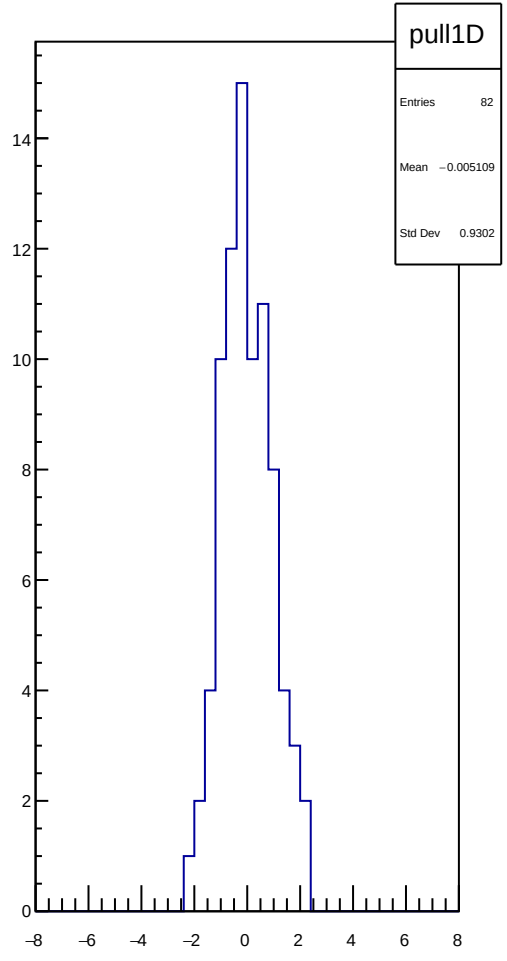

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.9e+05 / 81
p0 1.067e−11 ± 1.163e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

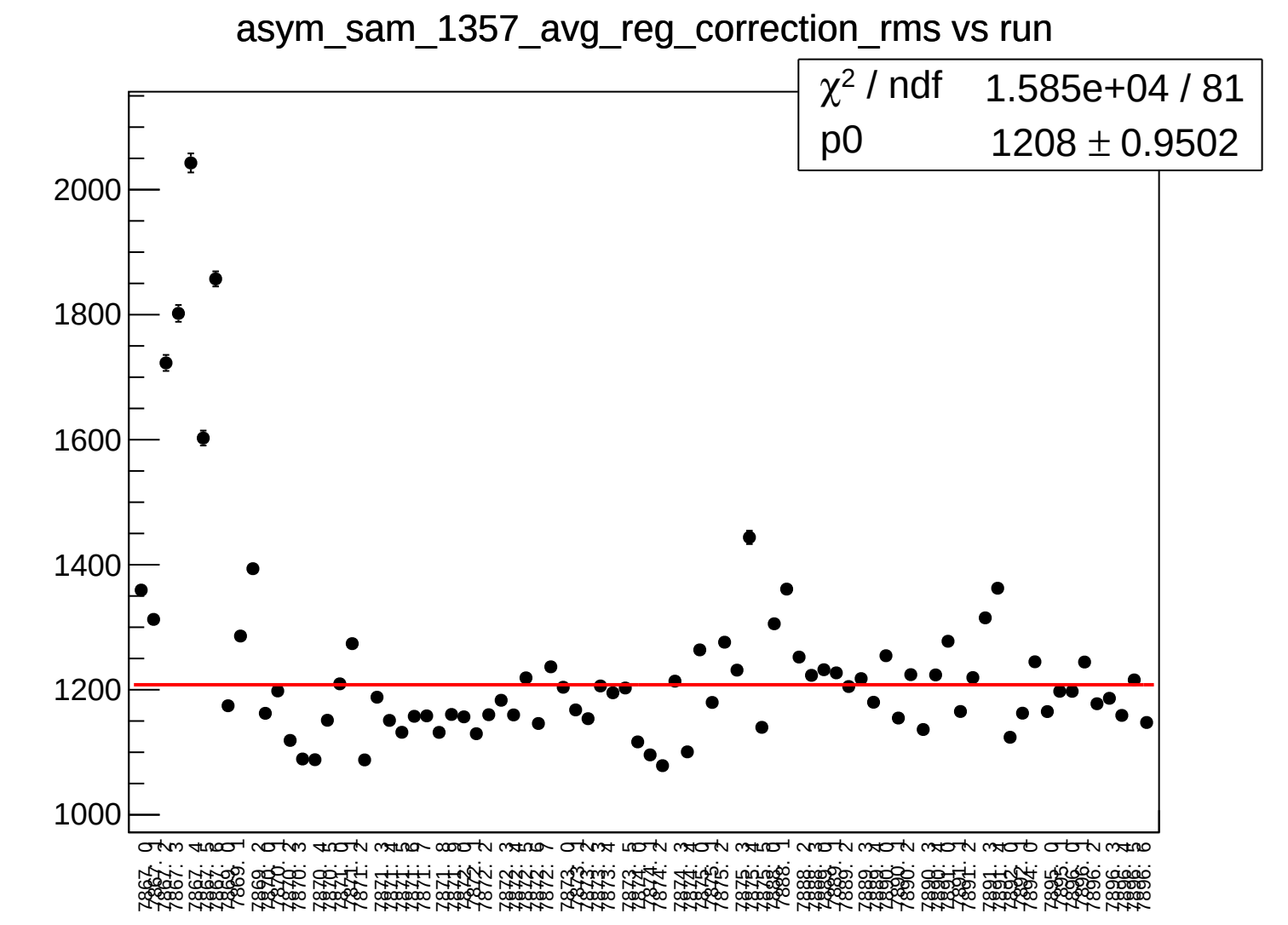

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 73.9 / 81
p0 322.9 ± 181.1
pull
Entries 82
Mean −295.5
Std Dev 0

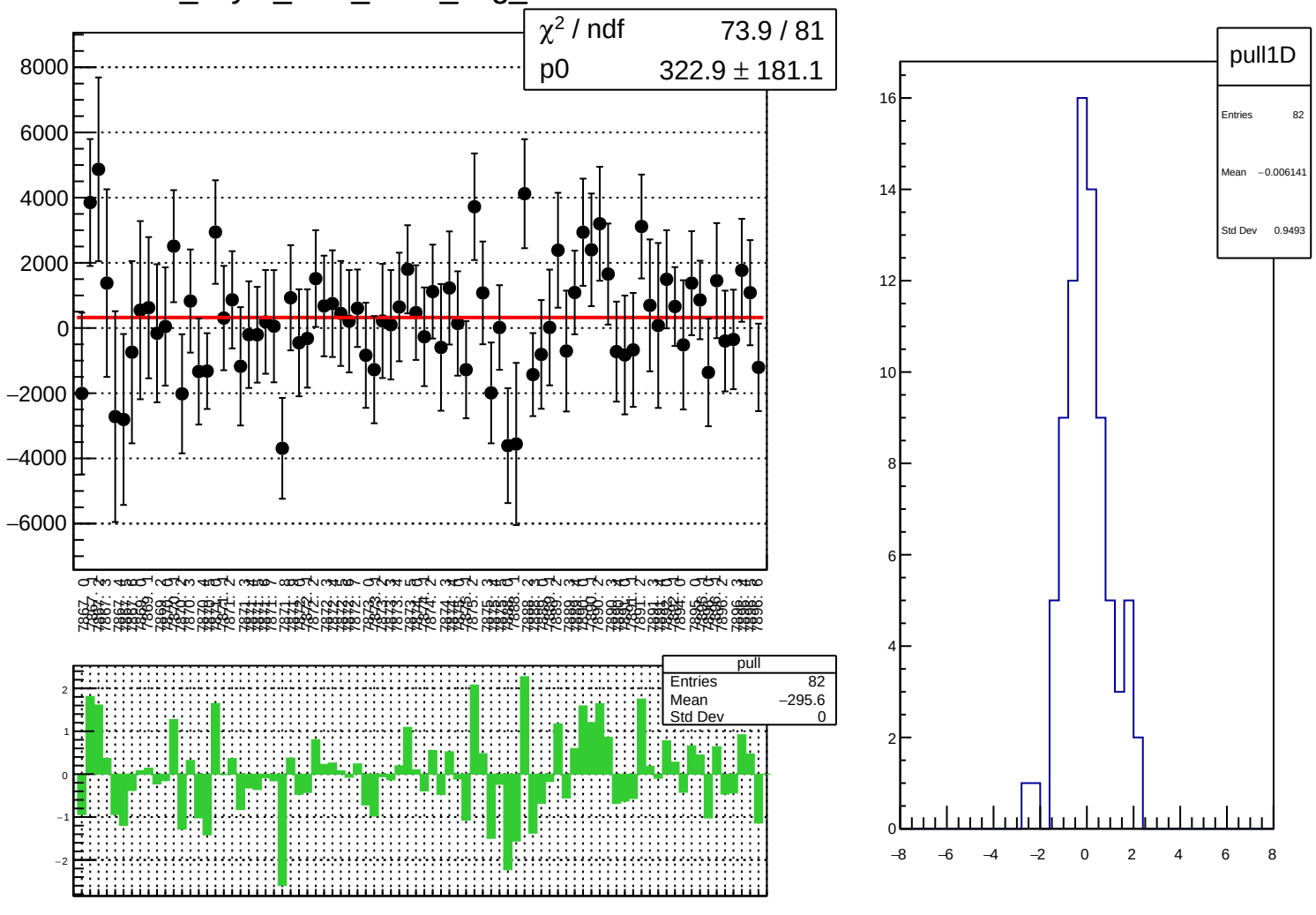

pull1D
Entries 82
Mean −0.006141
Std Dev 0.9493

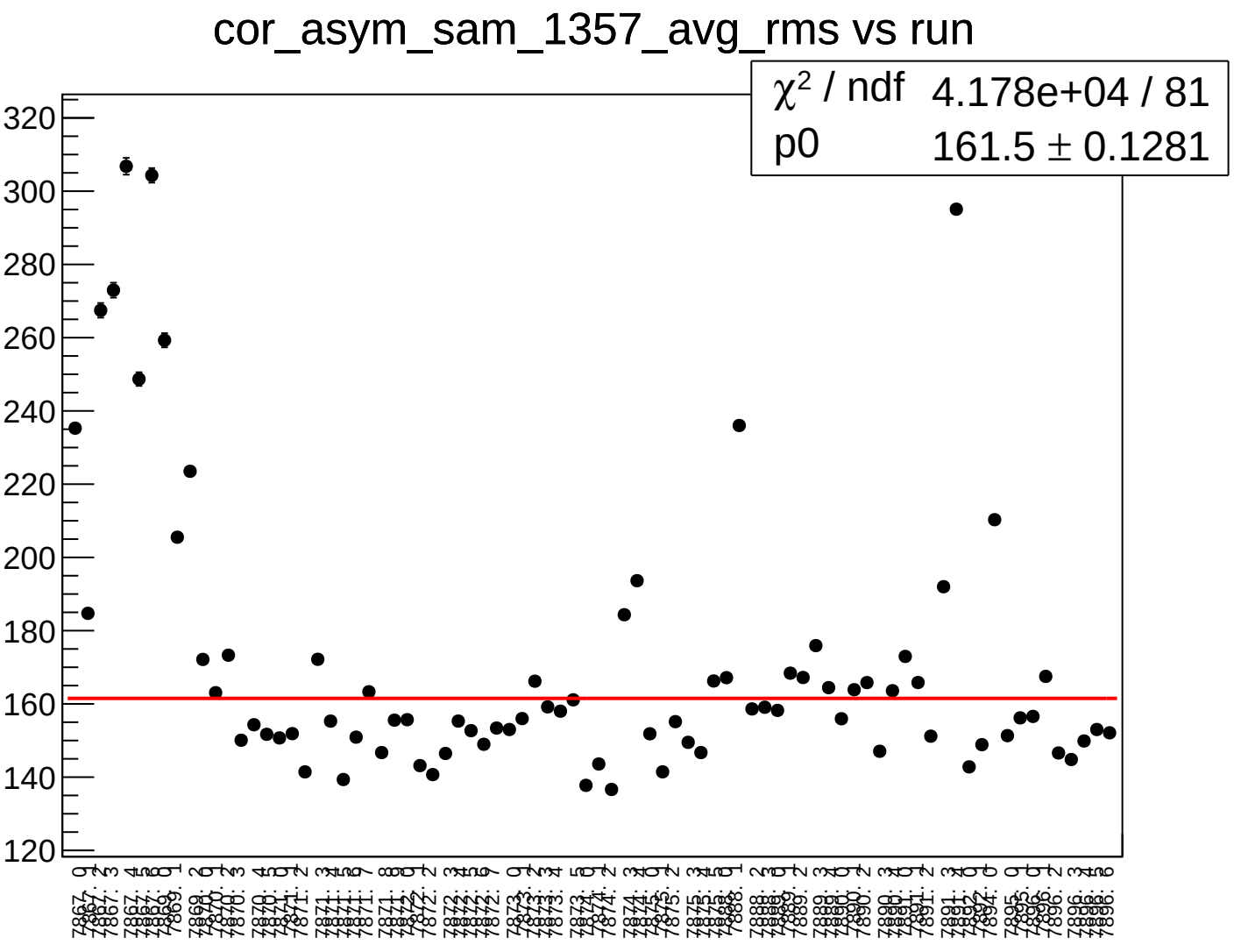

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 4.178e+04 / 81
p0 161.5 ± 0.1281
320
300
280
260
240
220
200
180
160
140
120

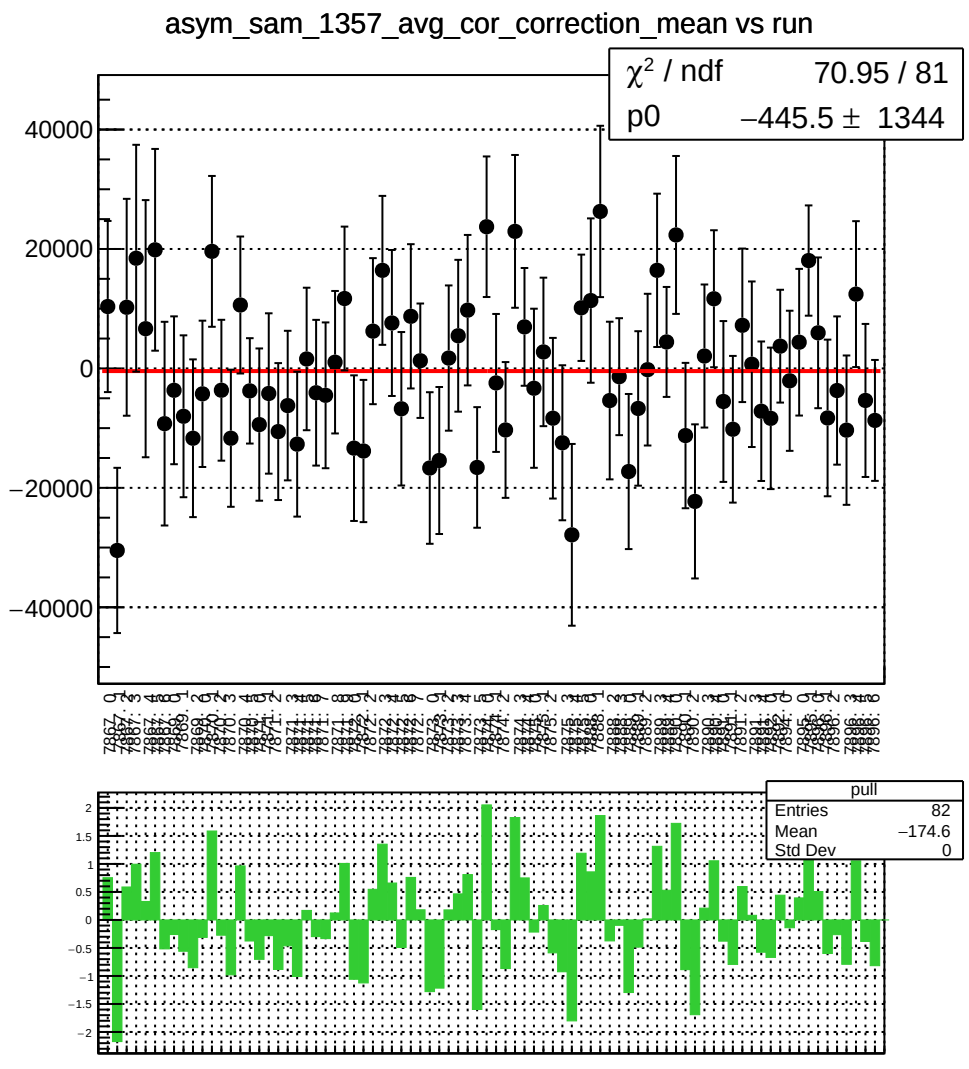

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 70.95 / 81
p0 −445.5 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −174.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

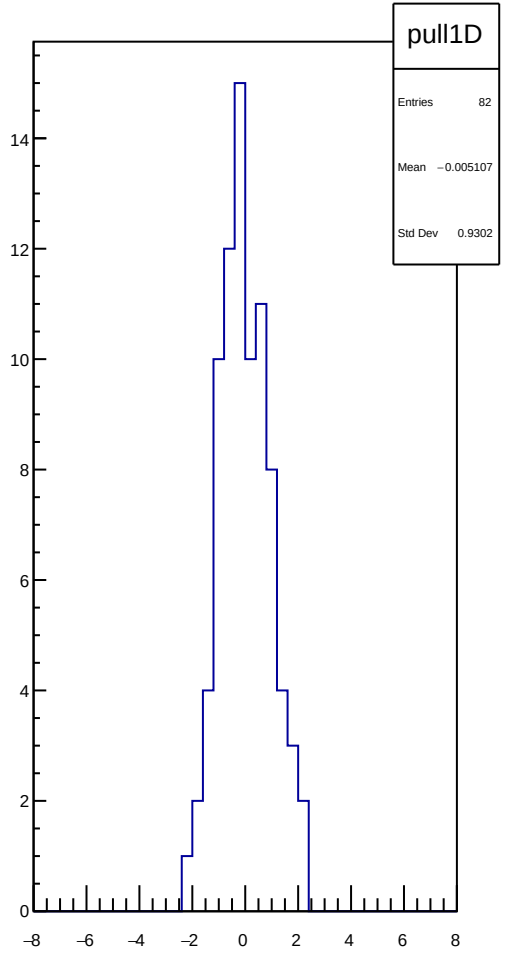

pull1D
Entries 82
Mean −0.005109
Std Dev 0.9302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

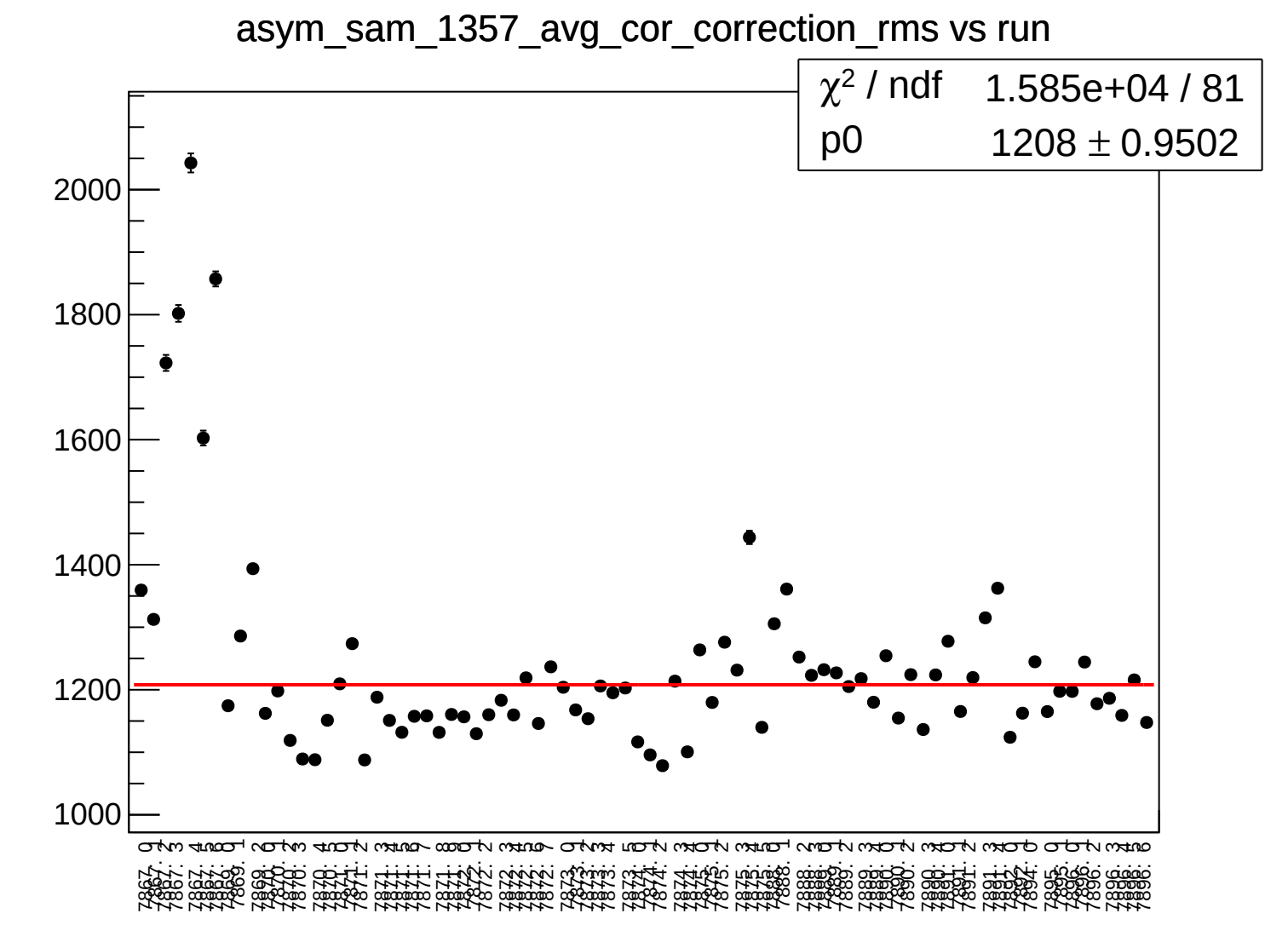

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.585e+04 / 81
p0 1208 ± 0.9502
2000
1800
1600
1400
1200
1000

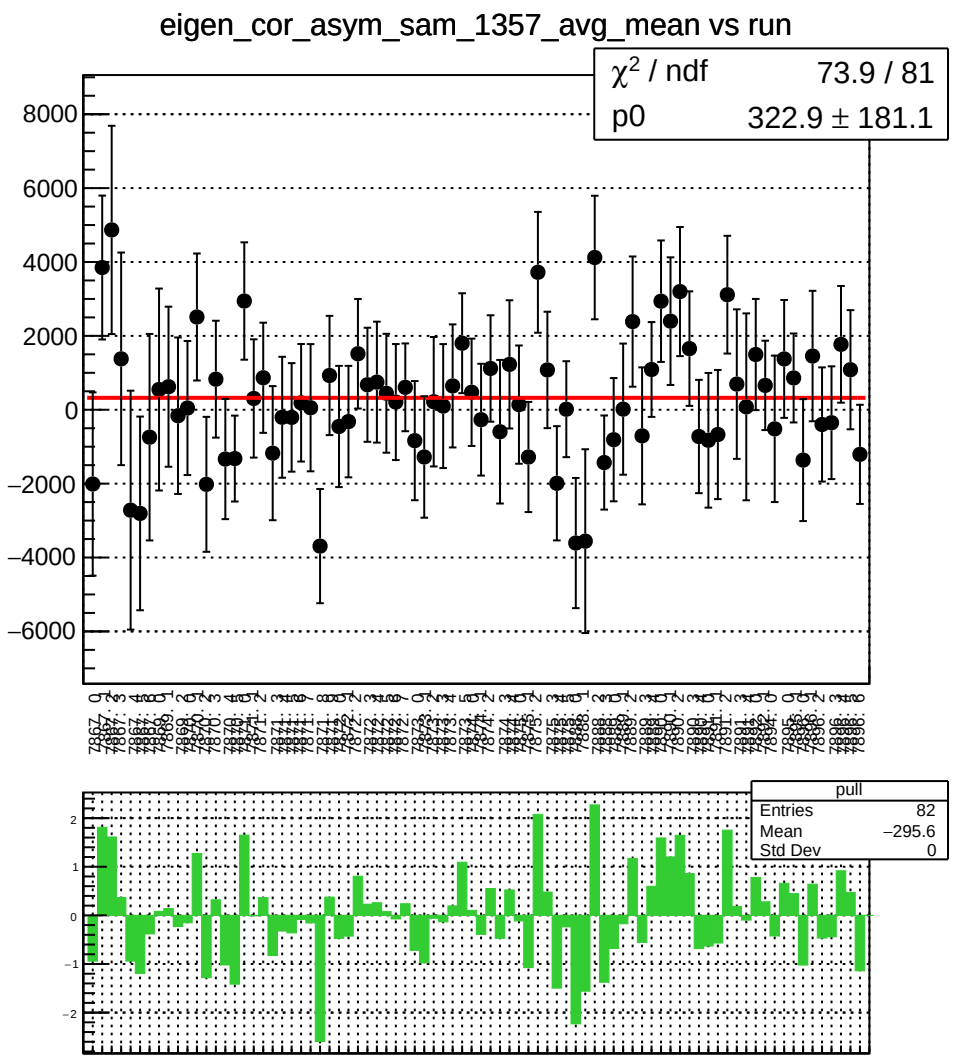

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 73.9 / 81
p0 322.9 ± 181.1
pull
Entries 82
Mean −295.6
Std Dev 0
pull1D
Entries 82
Mean −0.006141
Std Dev 0.9493

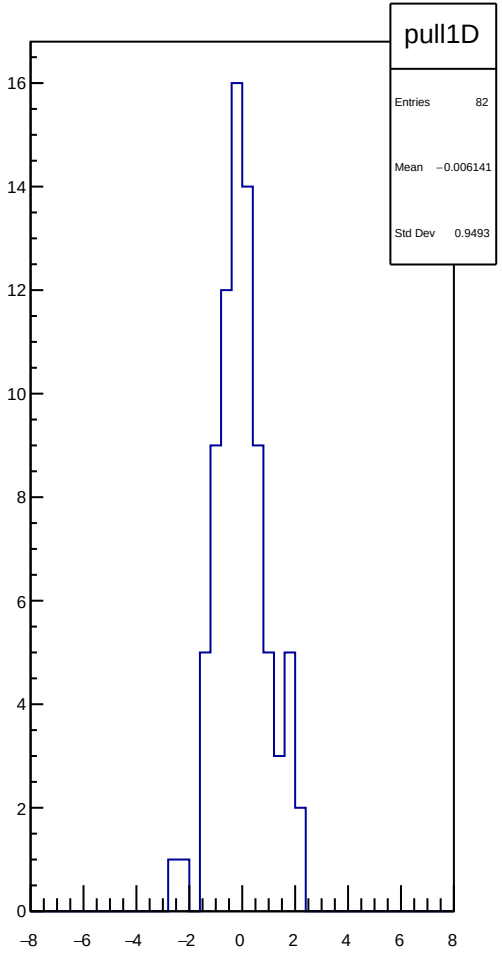

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4.178e+04 / 81
p0 161.5 ± 0.1281
320
300
280
260
240
220
200
180
160
140
120

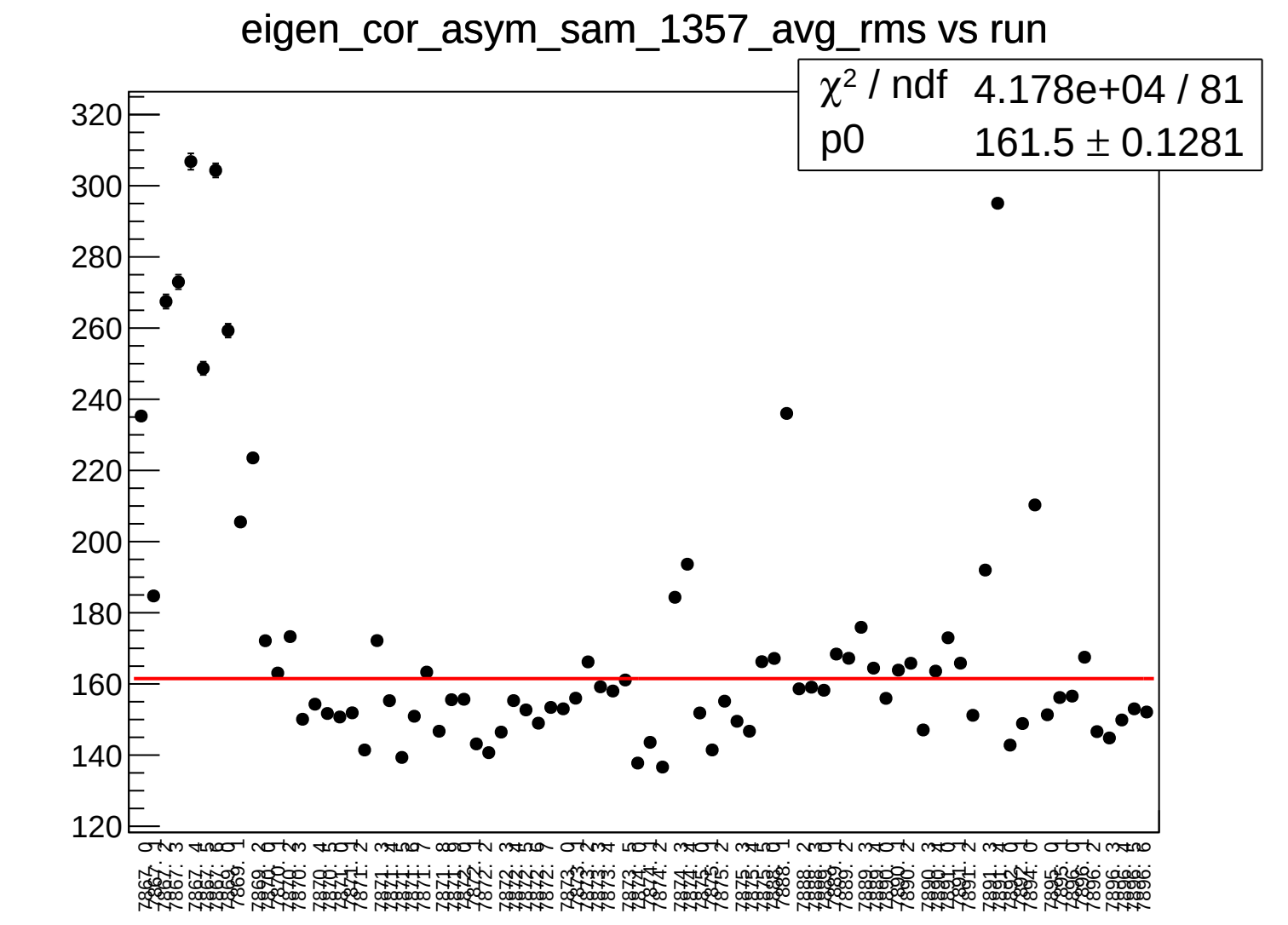

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 70.95 / 81
p0 −445.5 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −174.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

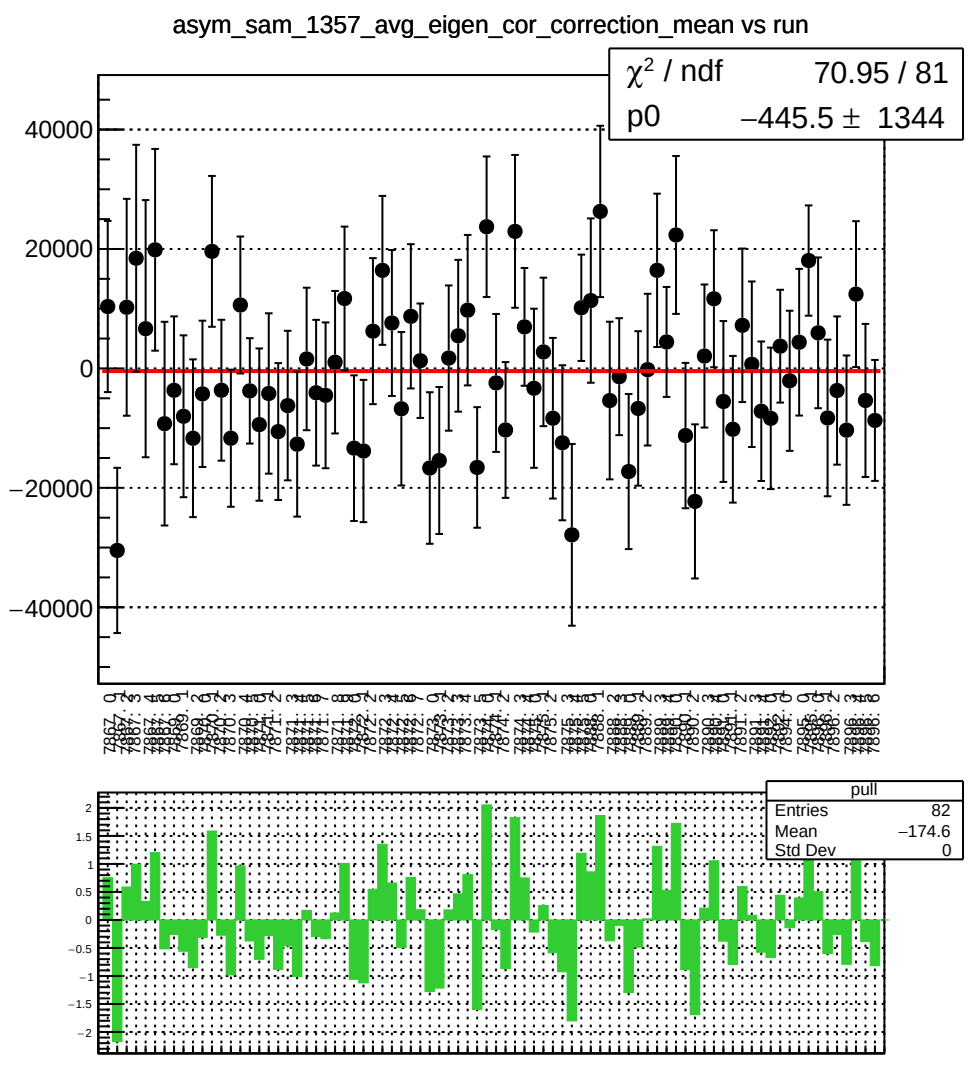

pull1D
Entries 82
Mean −0.005107
Std Dev 0.9302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

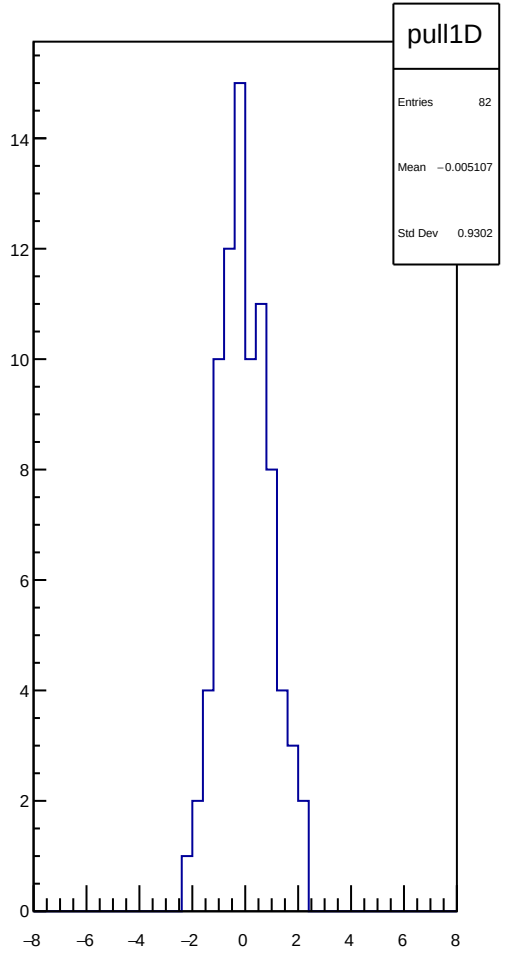

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.585e+04 / 81
p0 1208 ± 0.9502
2000
1800
1600
1400
1200
1000

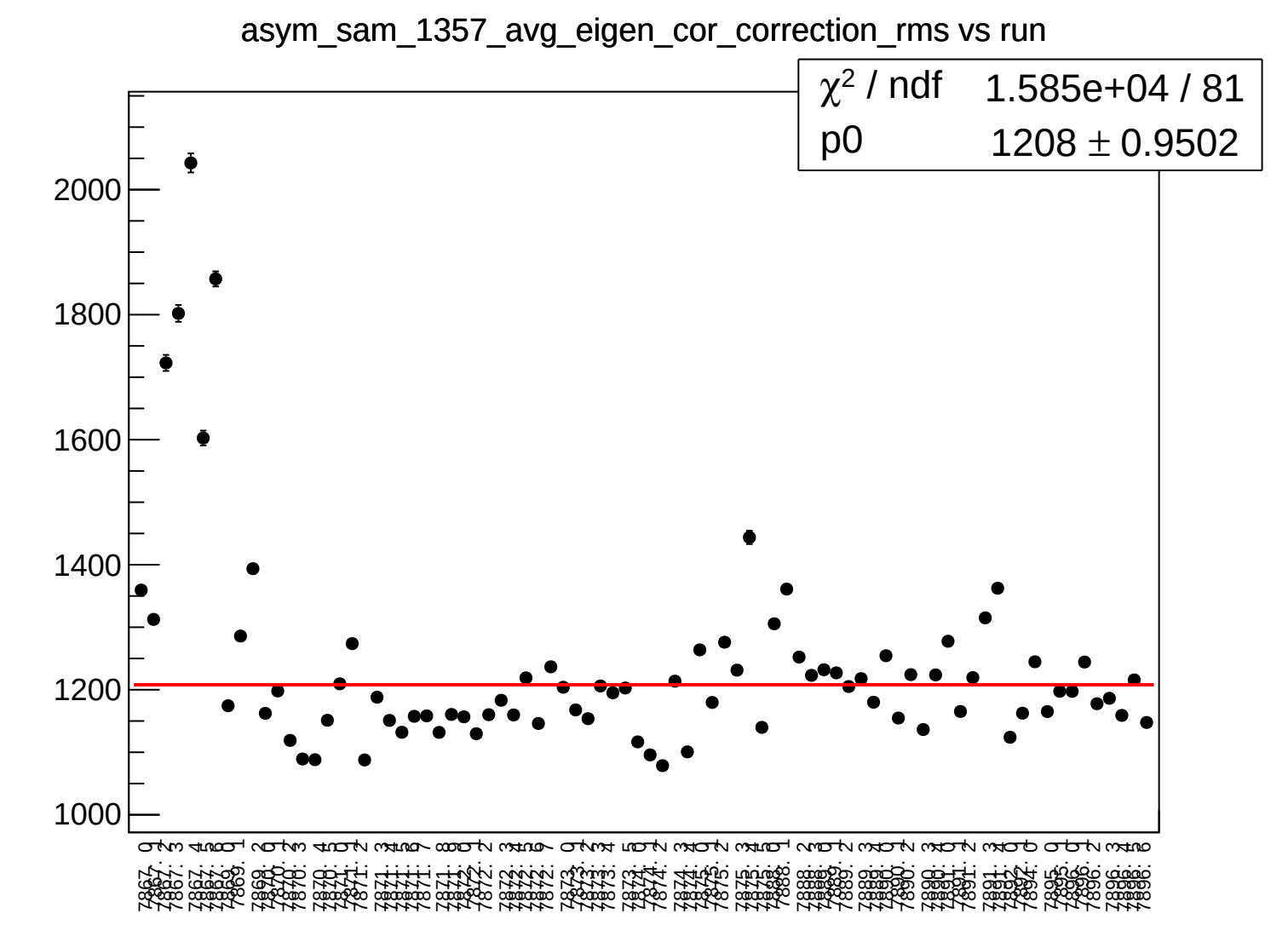

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 73.9 / 81
p0 322.9 ± 181.1
pull
Entries 82
Mean −295.6
Std Dev 0

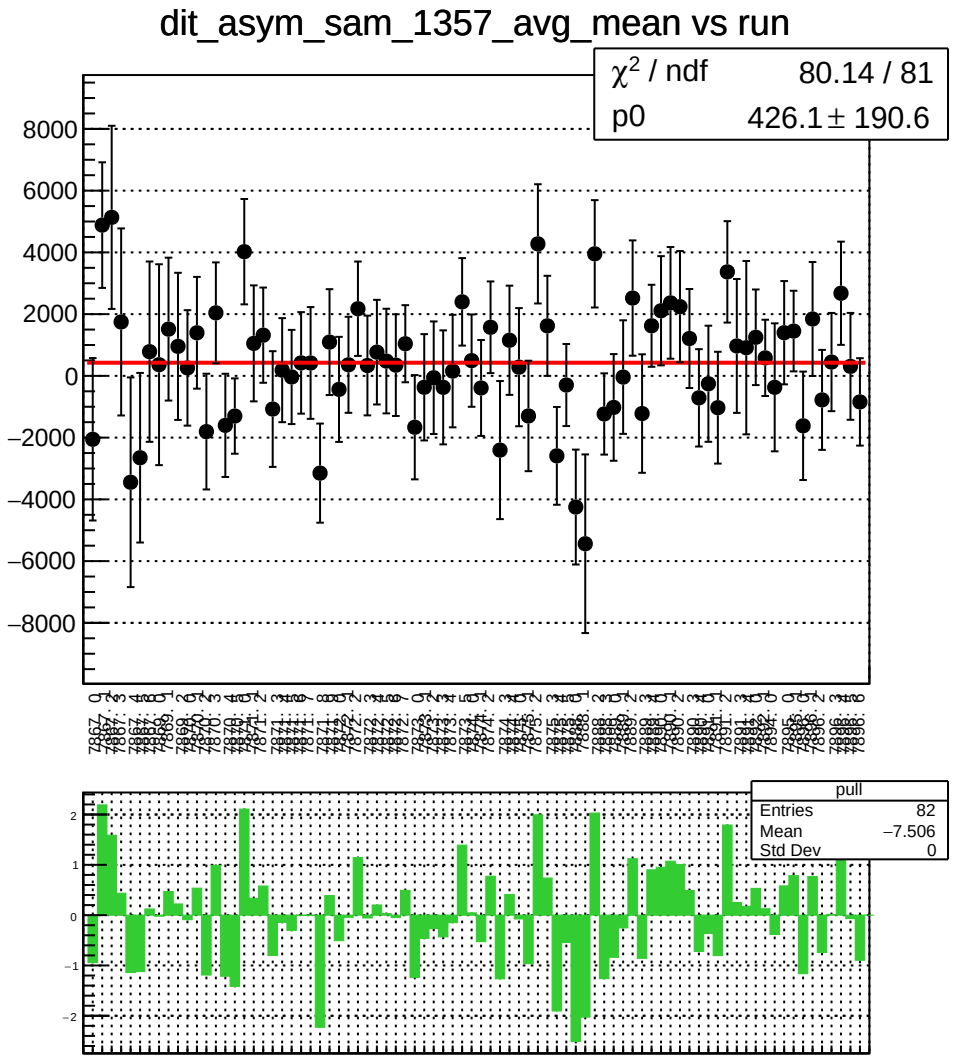

pull1D
Entries 82
Mean −0.006141
Std Dev 0.9493

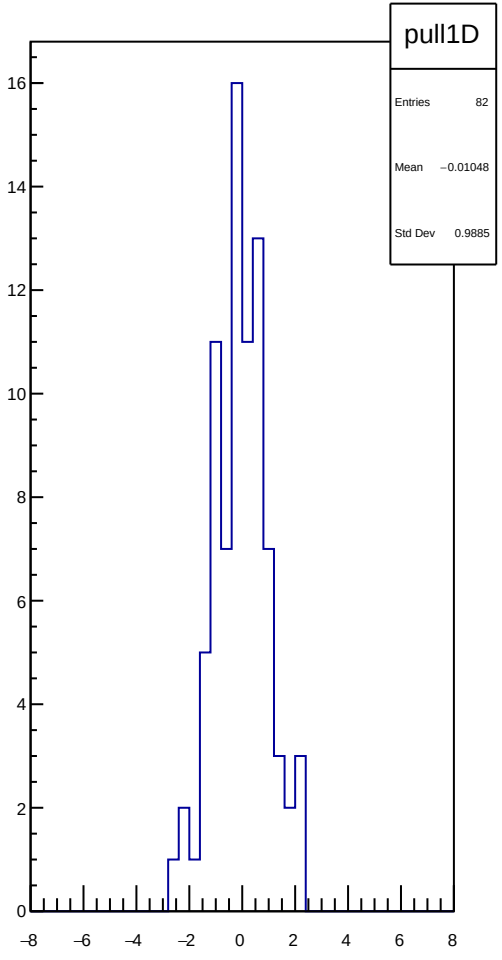

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4.178e+04 / 81
p0 161.5 ± 0.1281
320
300
280
260
240
220
200
180
160
140
120

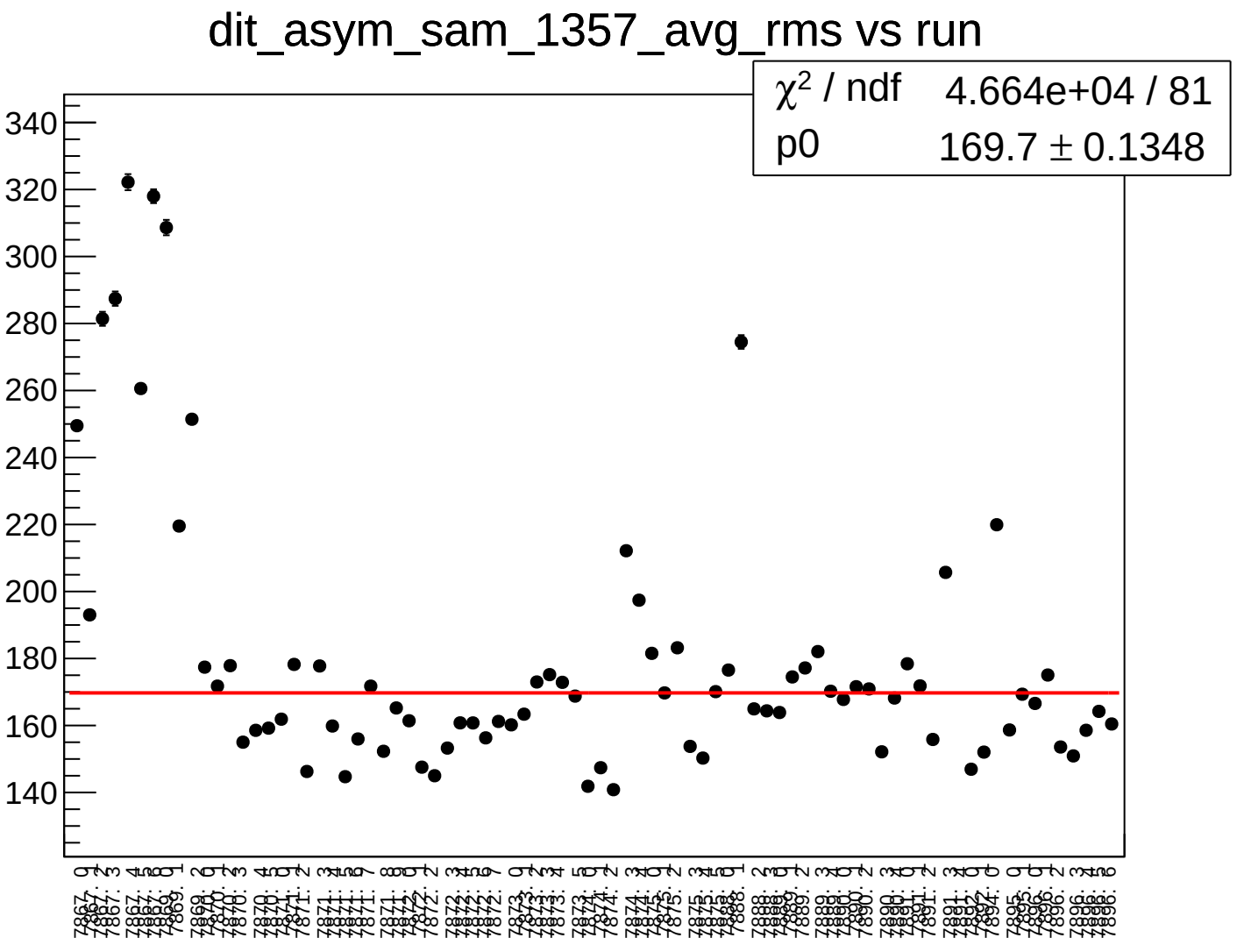

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.95 / 81
p0 −445.5 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −174.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

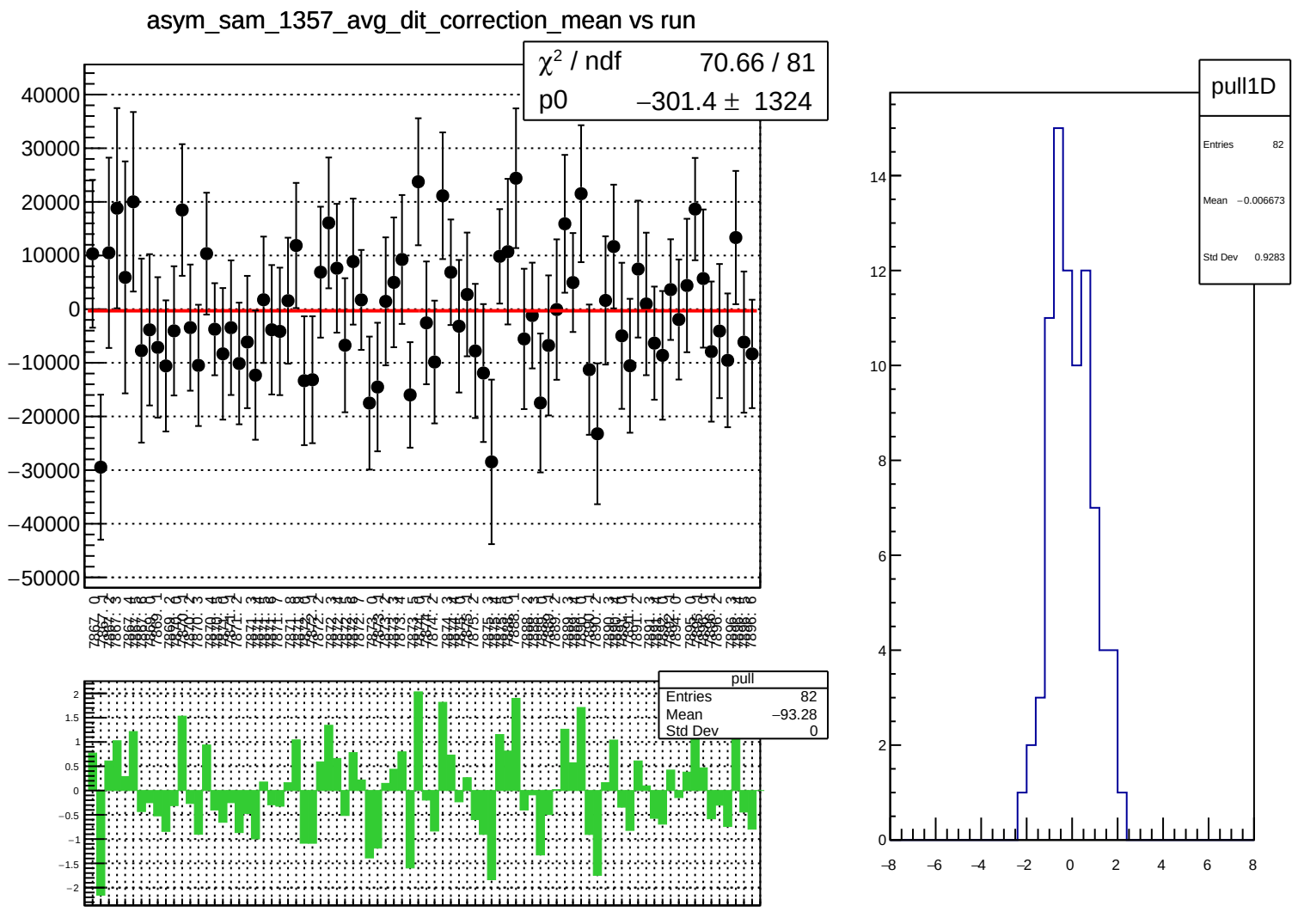

pull1D
Entries 82
Mean −0.005107
Std Dev 0.9302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

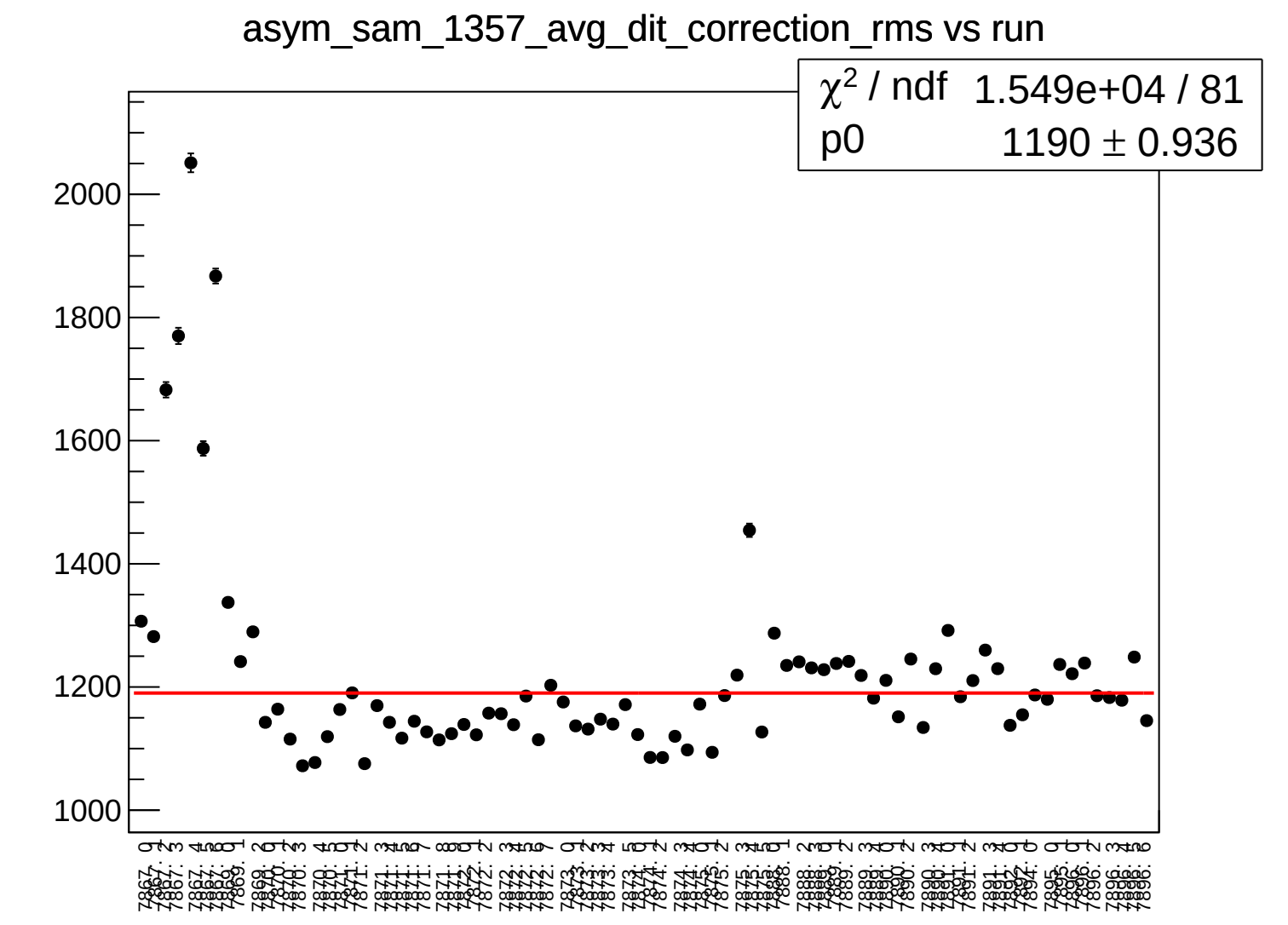

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.585e+04 / 81
p0 1208 ± 0.9502
2000
1800
1600
1400
1200
1000

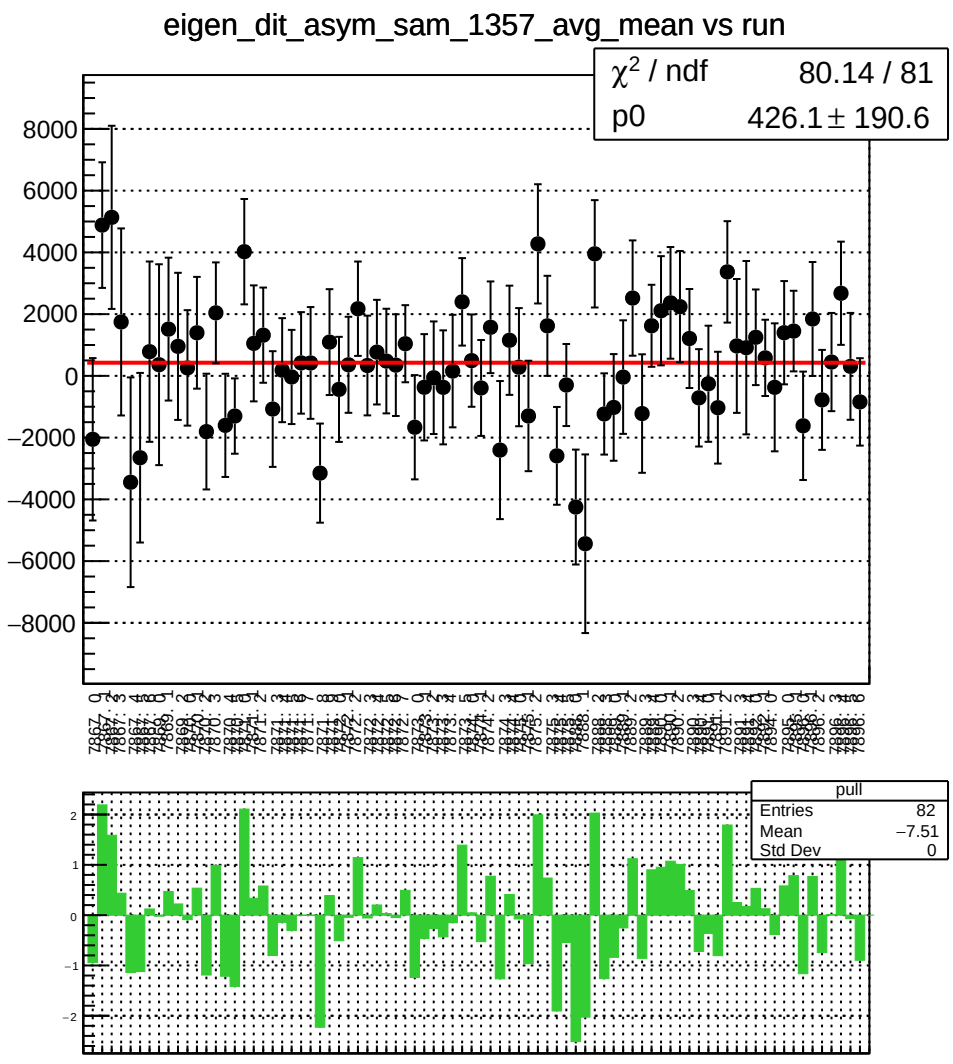

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.14 / 81
p0 426.1 ± 190.6
pull
Entries 82
Mean −7.506
Std Dev 0

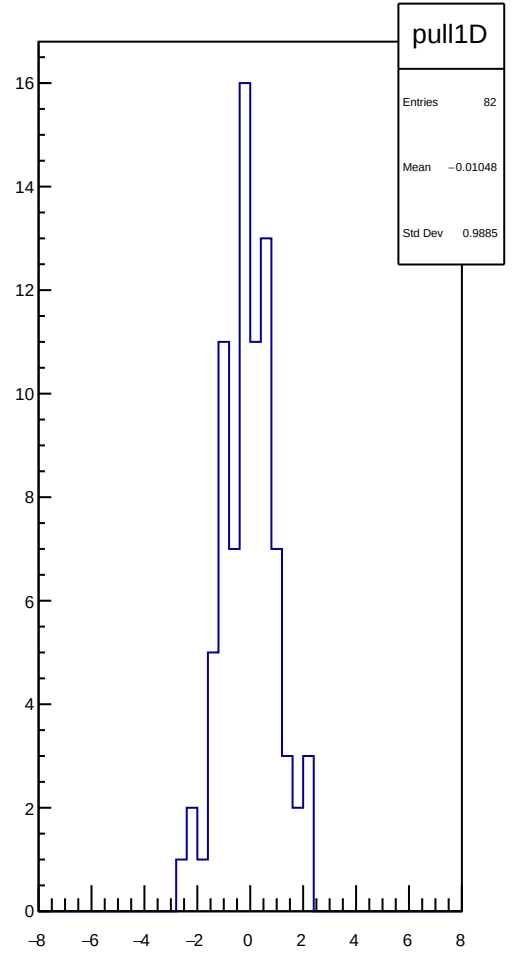

pull1D
Entries 82
Mean −0.01048
Std Dev 0.9885

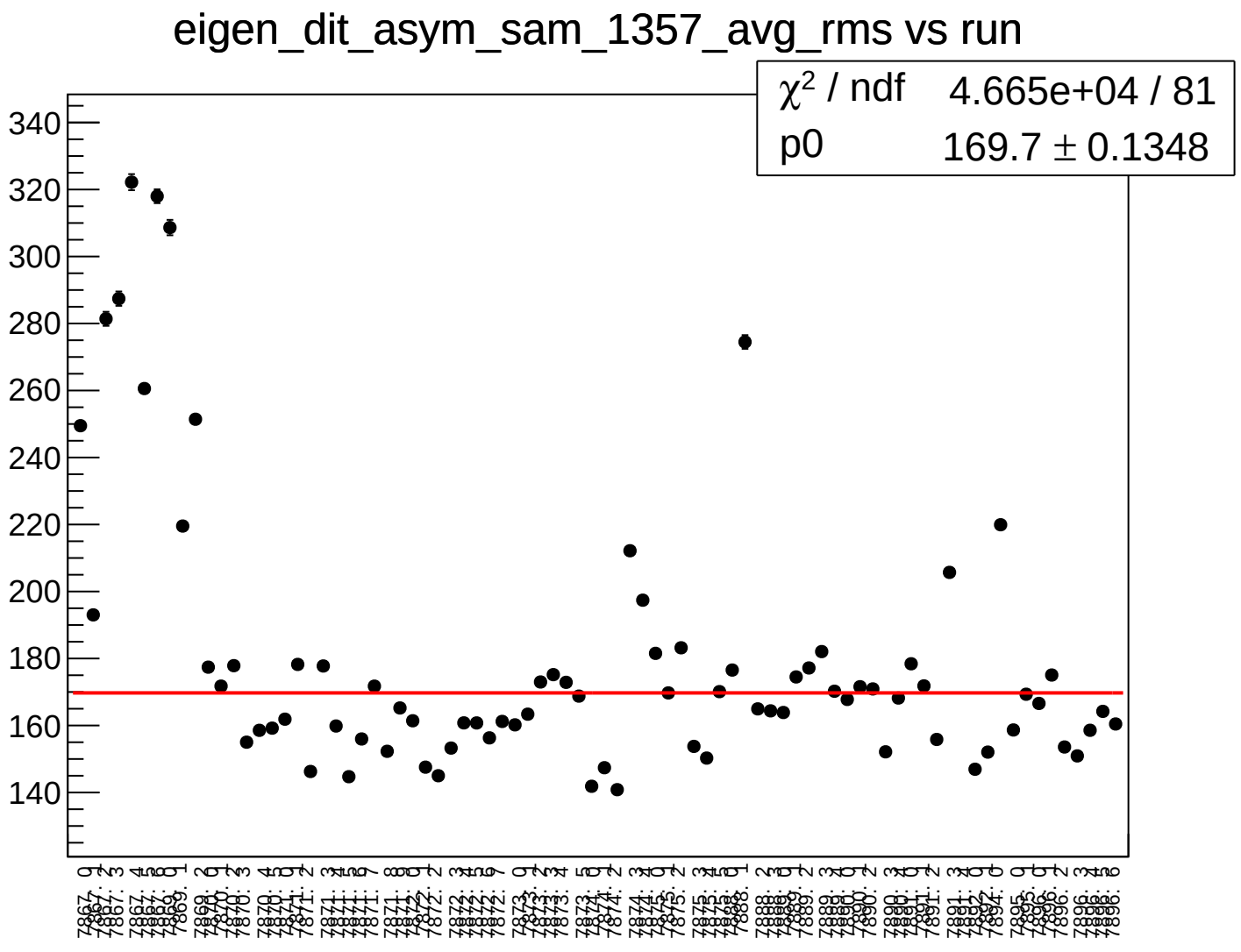

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 4.664e+04 / 81
p0 169.7 ± 0.1348
340
320
300
280
260
240
220
200
180
160
140

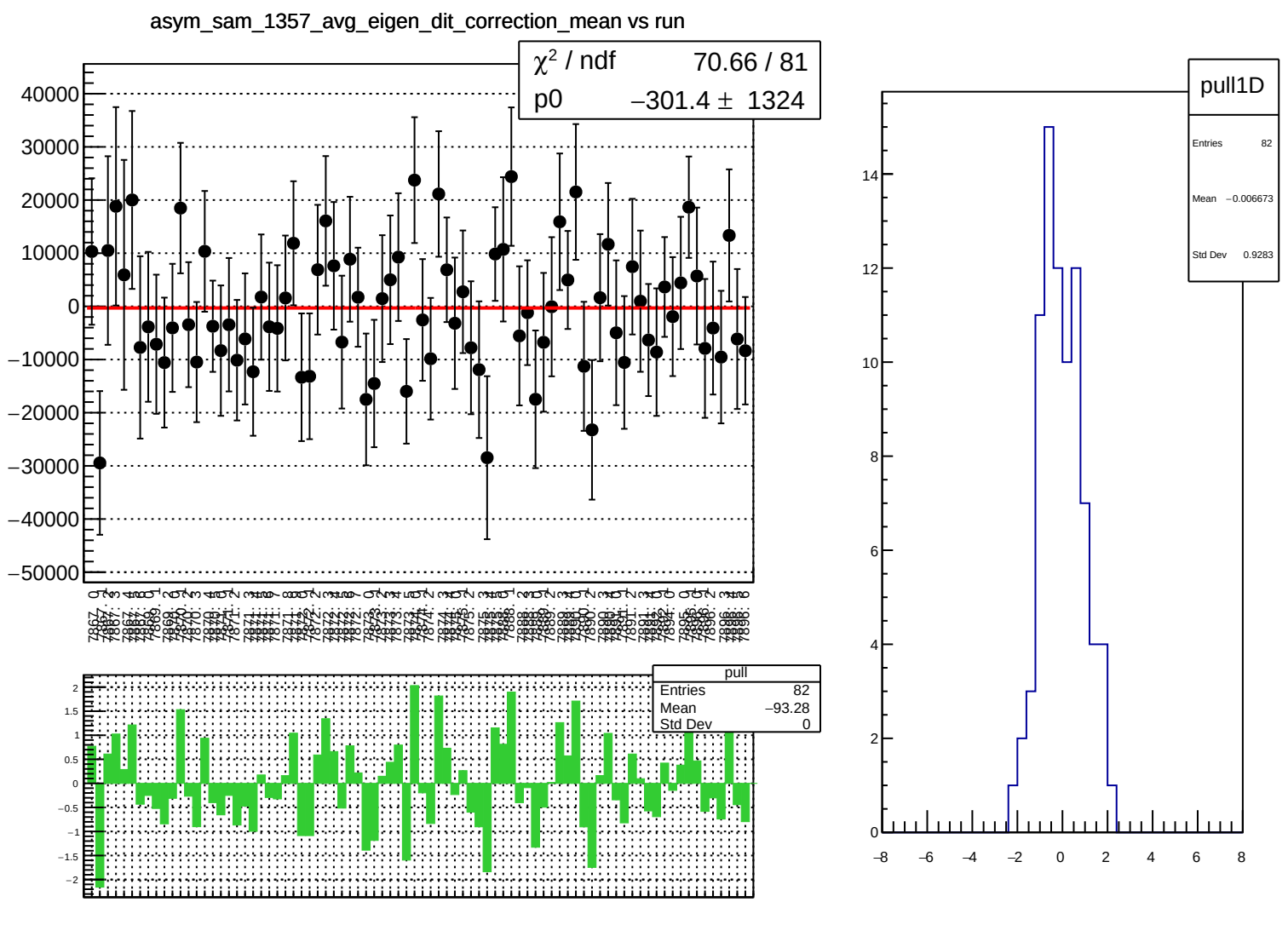

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 70.66 / 81
p0 −301.4 ± 1324
pull
Entries 82
Mean −93.28
Std Dev 0
pull1D
Entries 82
Mean −0.006673
Std Dev 0.9283

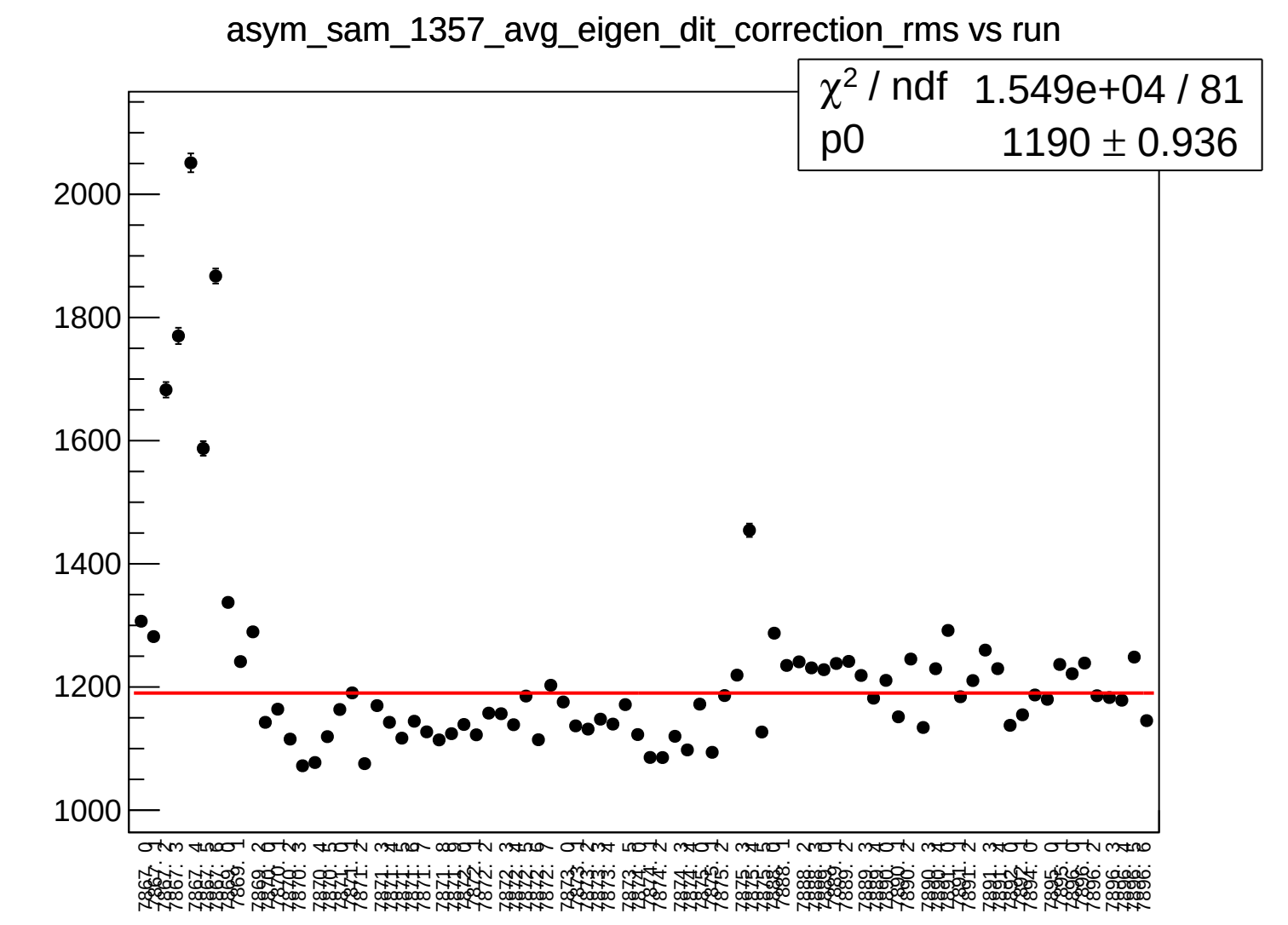

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.549e+04 / 81
p0 1190 ± 0.936
2000
1800
1600
1400
1200
1000

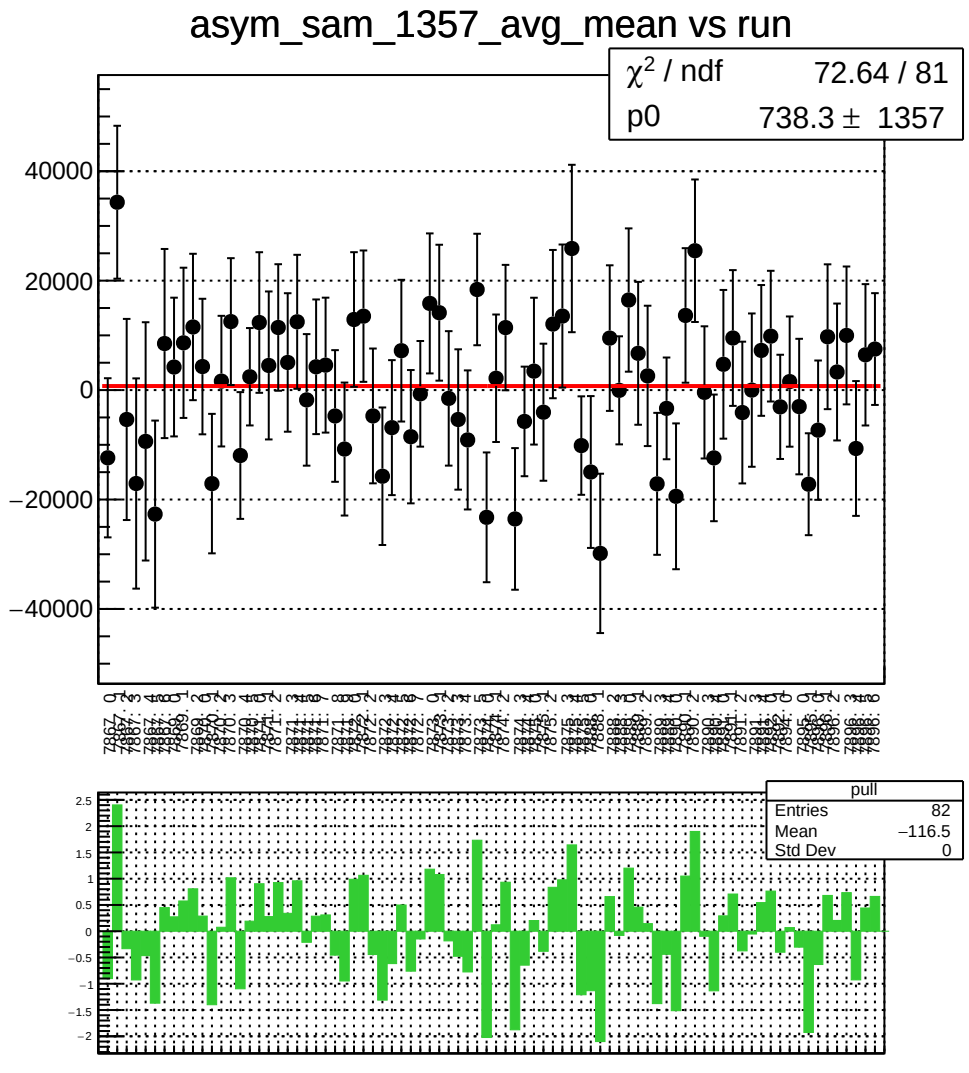

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.14 / 81
p0 426.1 ± 190.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean −7.51
Std Dev 0
2
1
0
−1
−2

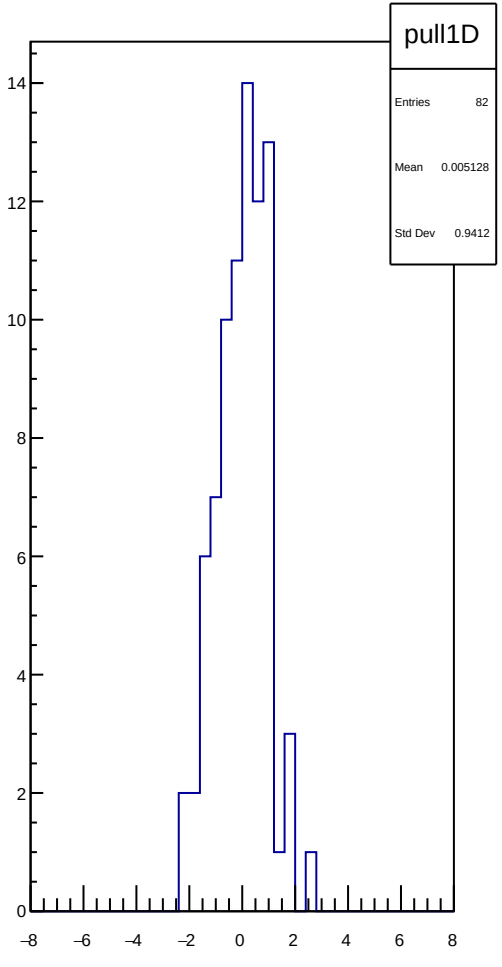

pull1D
Entries 82
Mean −0.01048
Std Dev 0.9885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

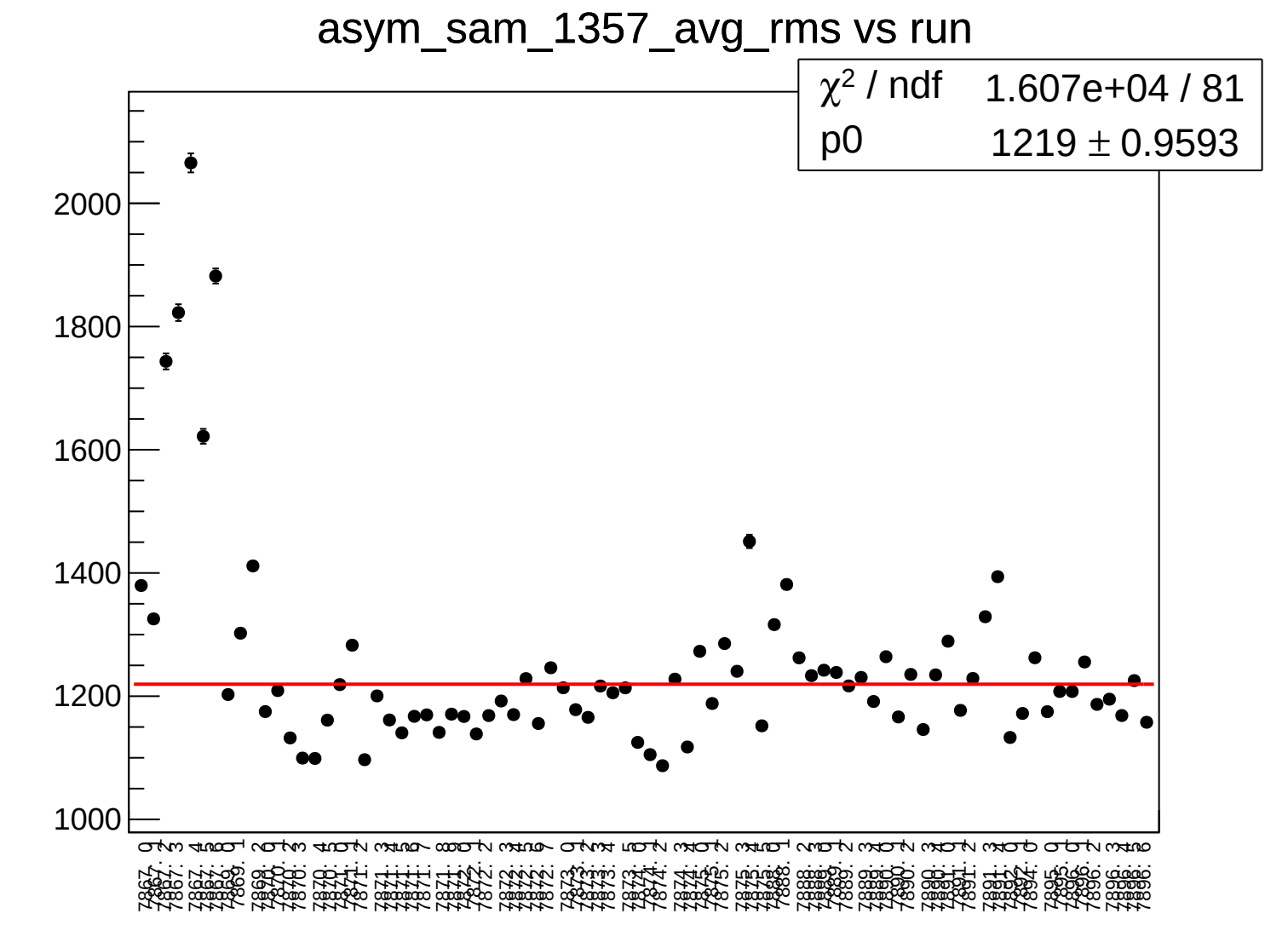

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 4.665e+04 / 81
p0 169.7 ± 0.1348
340
320
300
280
260
240
220
200
180
160
140

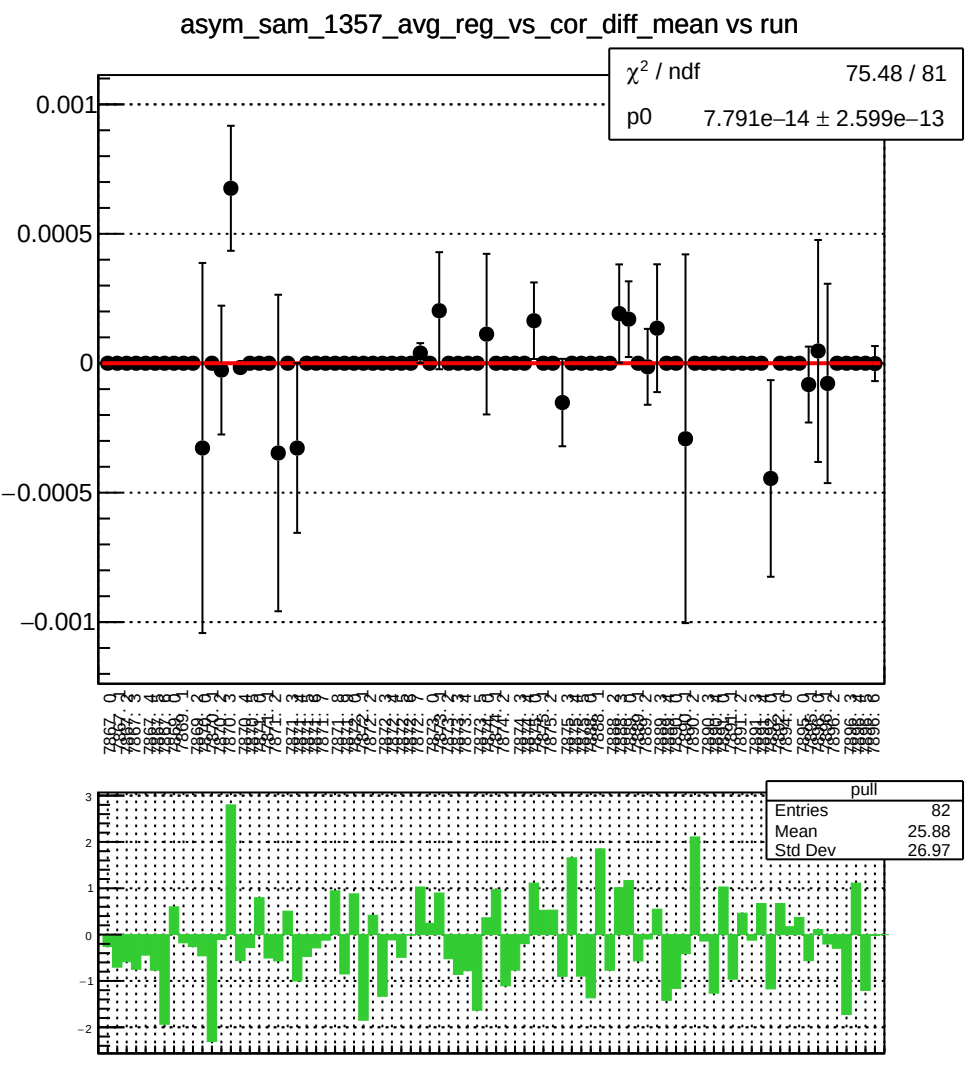

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.66 / 81
p0 −301.4 ± 1324
pull
Entries 82
Mean −93.28
Std Dev 0
pull1D
Entries 82
Mean −0.006673
Std Dev 0.9283

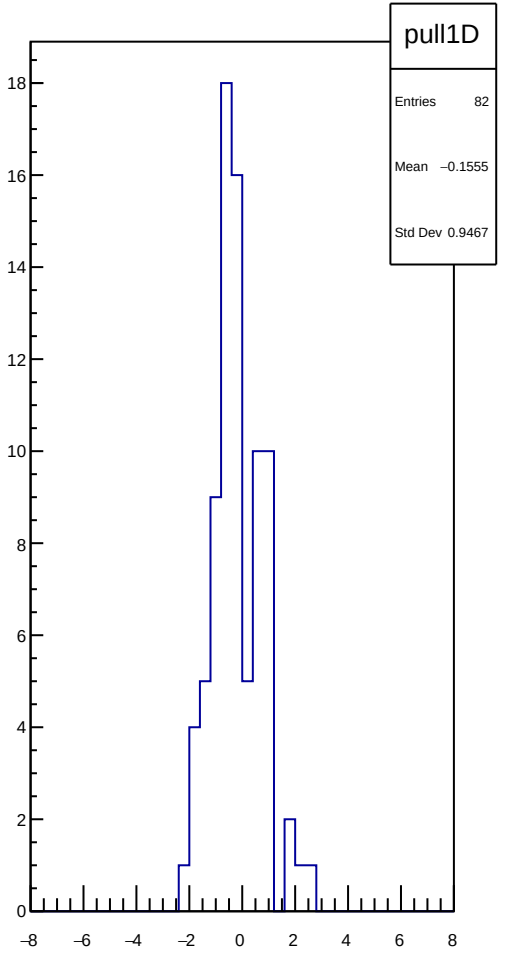

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.549e+04 / 81
p0 1190 ± 0.936
2000
1800
1600
1400
1200
1000

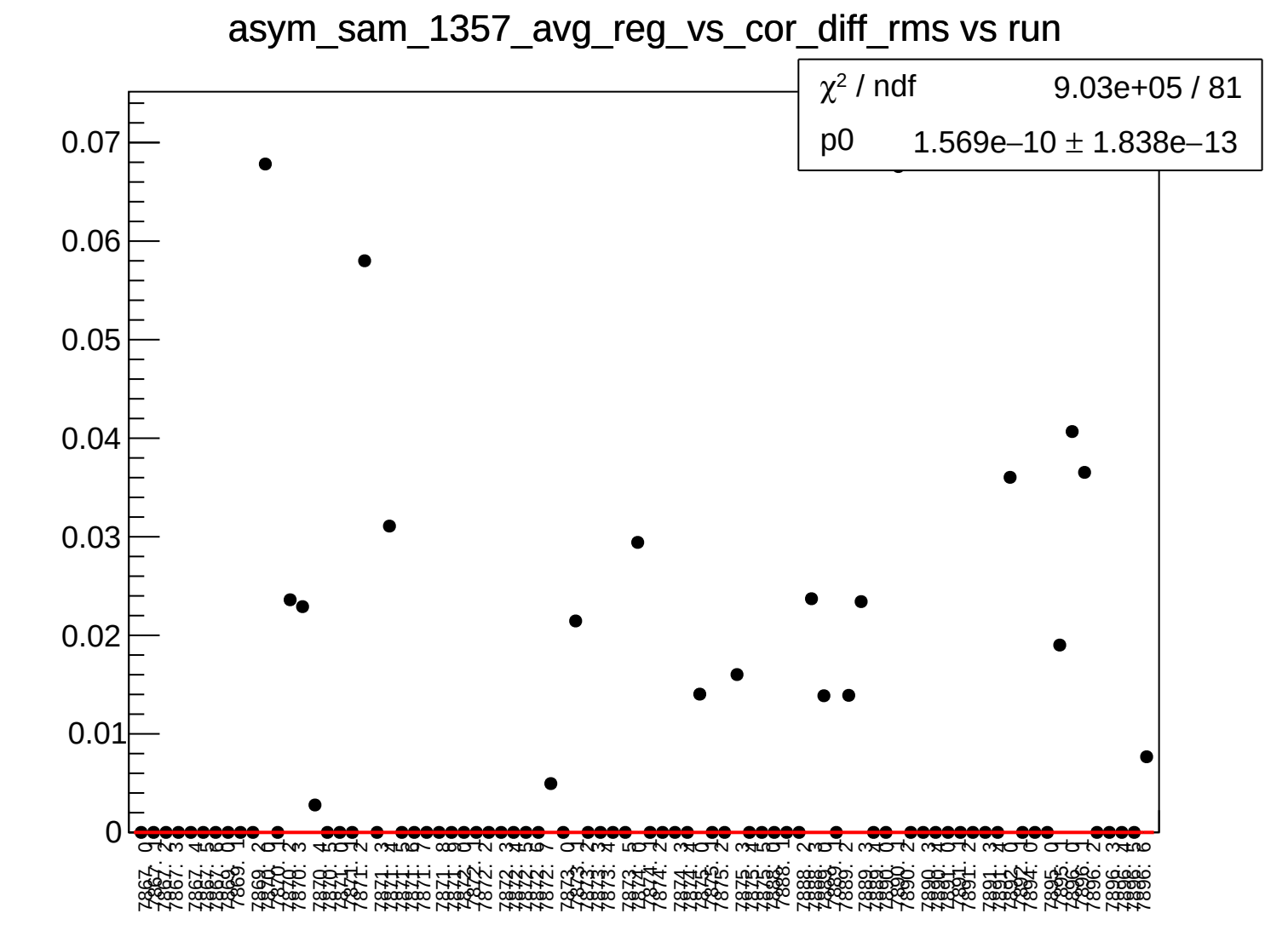

asym_sam_1357_avg_mean vs run
χ² / ndf 72.64 / 81
p0 738.3 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −116.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

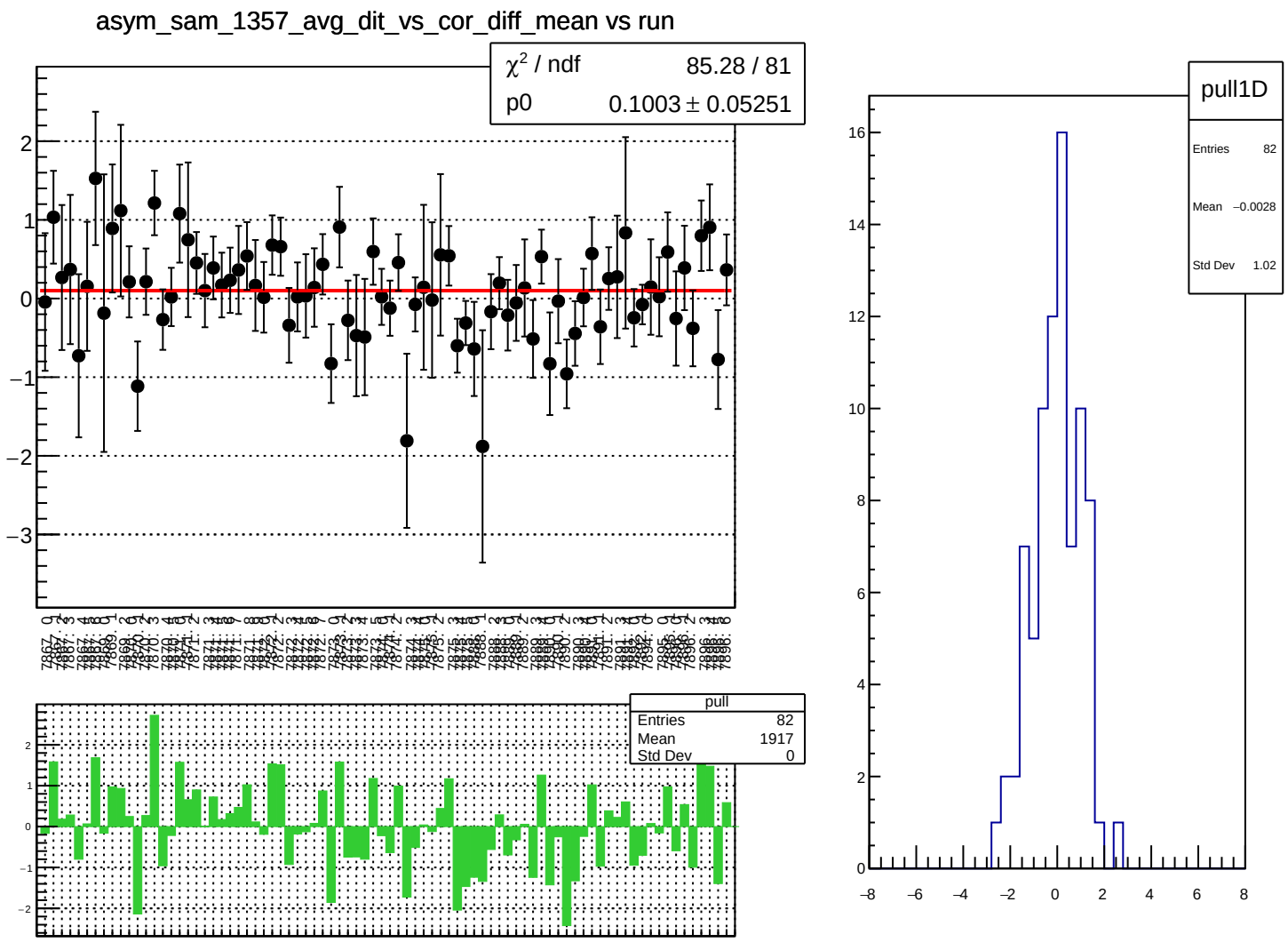

pull1D
Entries 82
Mean 0.005128
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

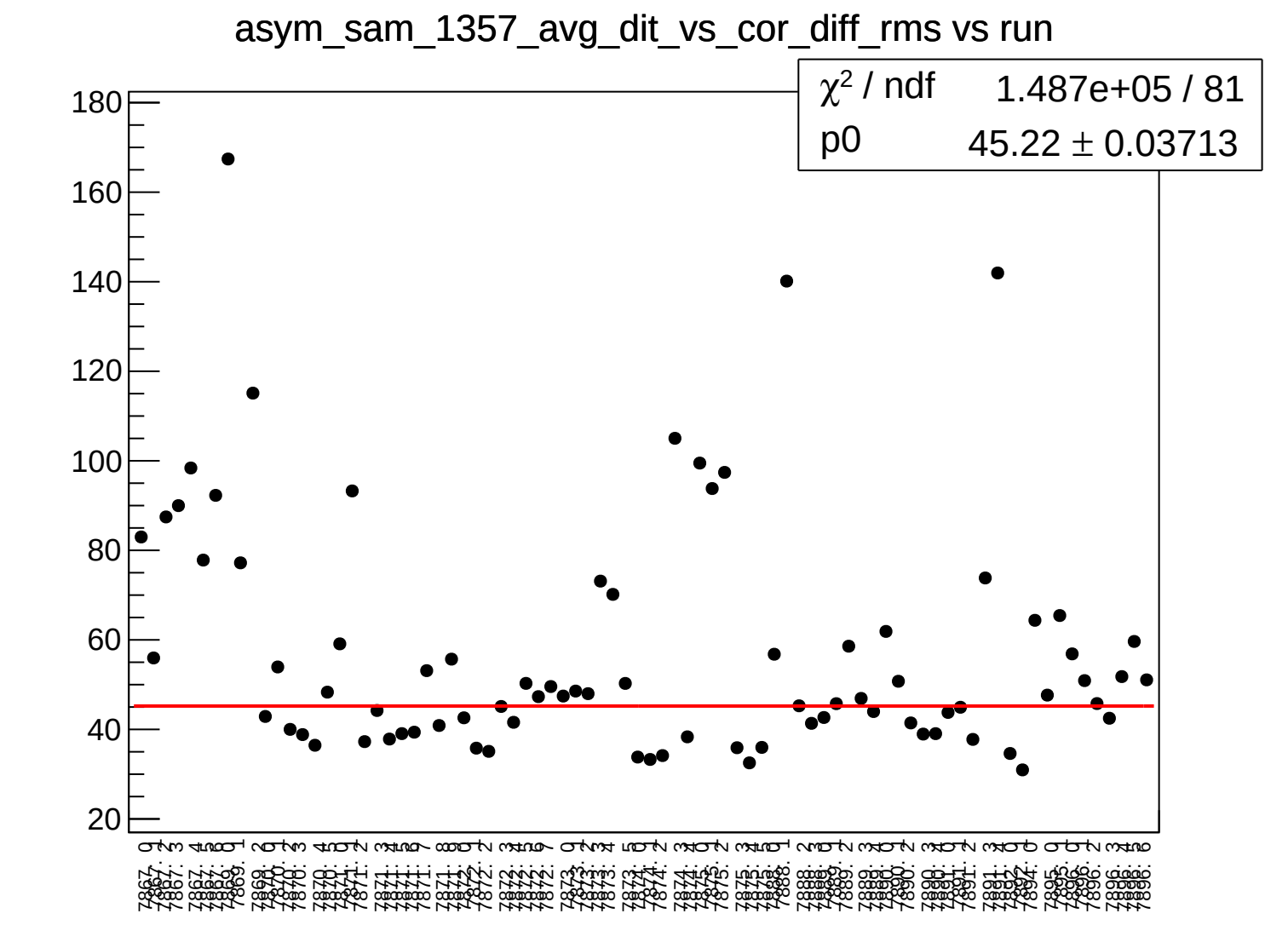

asym_sam_1357_avg_rms vs run
χ² / ndf 1.607e+04 / 81
p0 1219 ± 0.9593
2000
1800
1600
1400
1200
1000

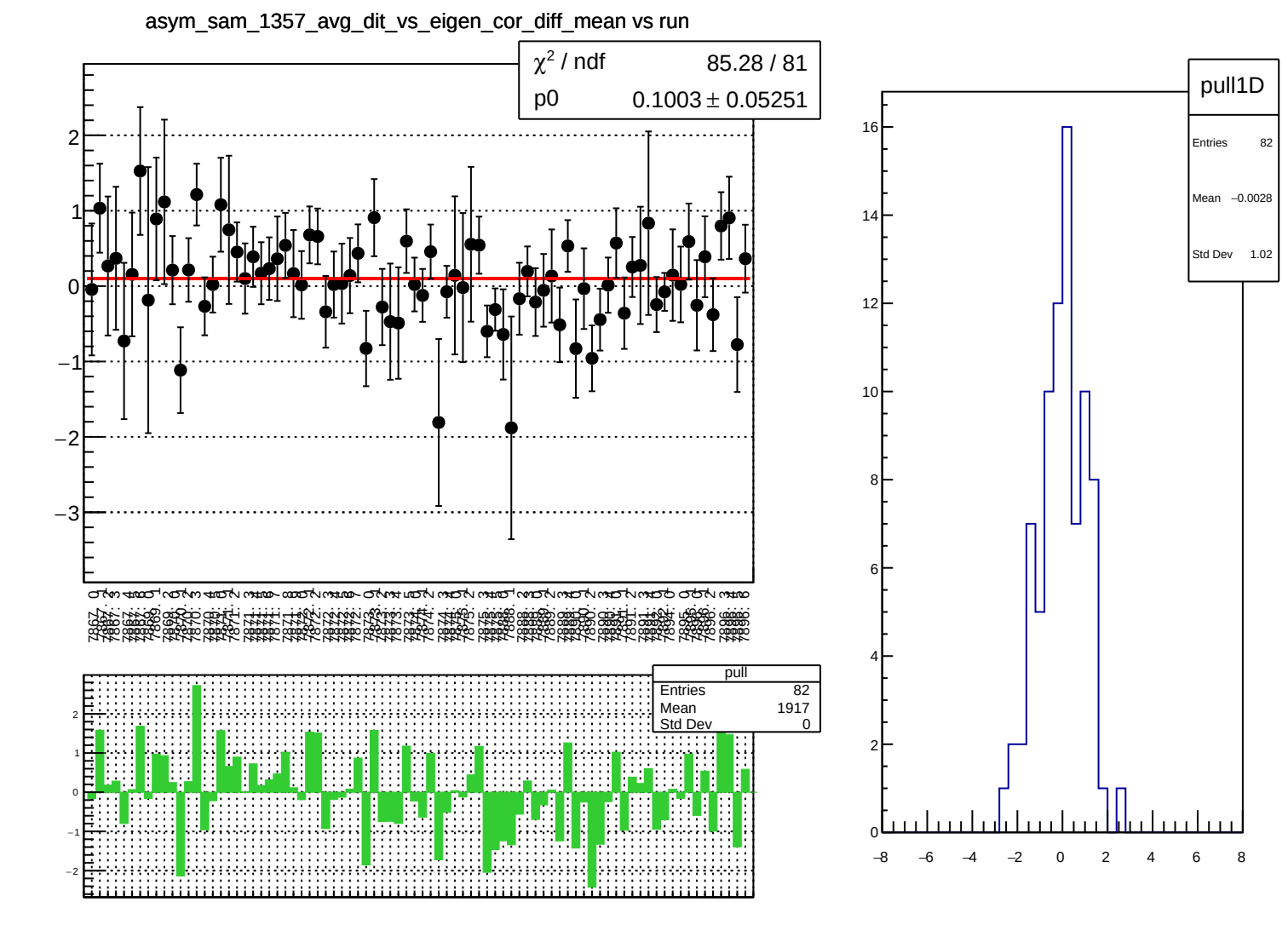

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.48 / 81
p0 7.791e−14 ± 2.599e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean 25.88
Std Dev 26.97
3
2
1
0
−1
−2

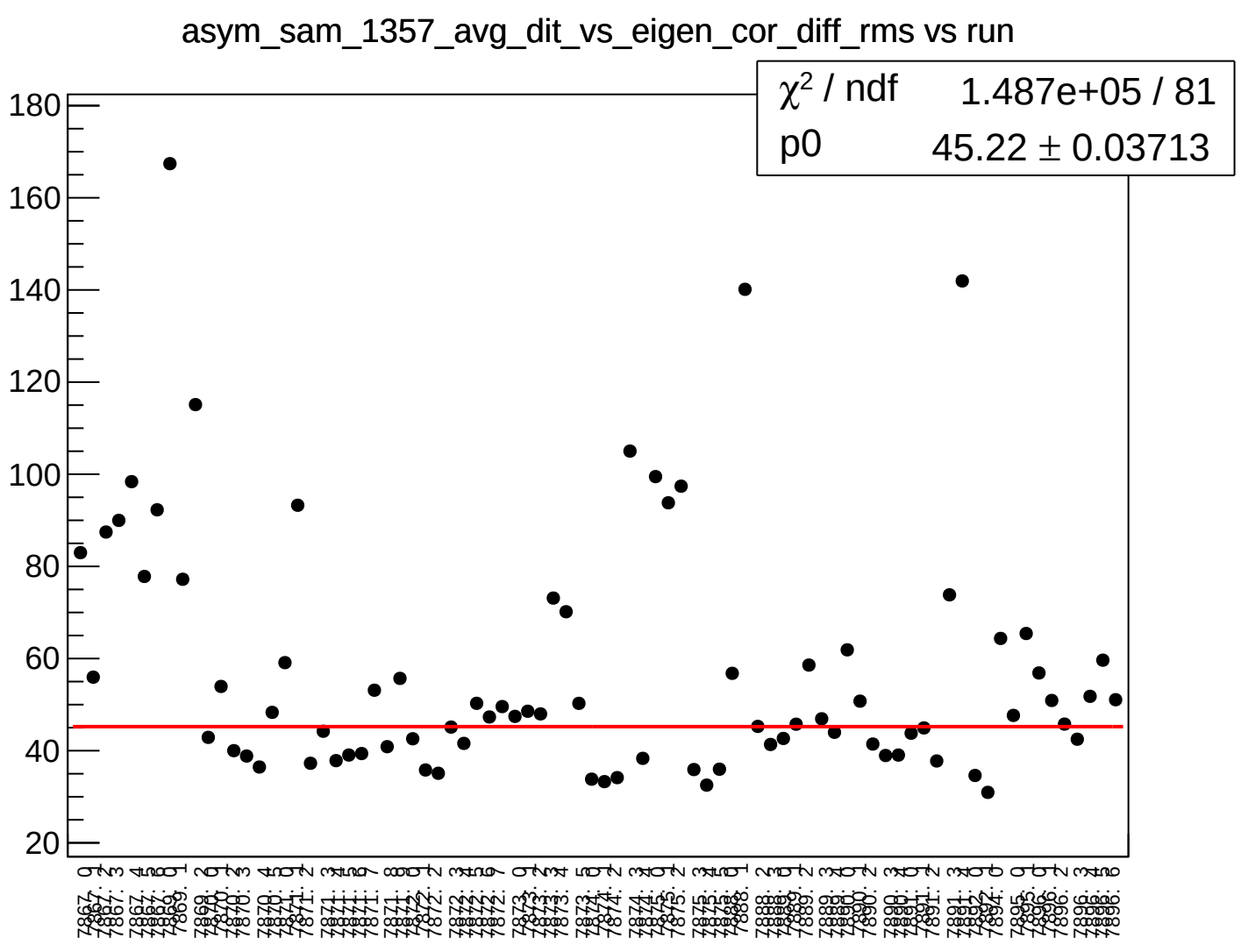

pull1D
Entries 82
Mean −0.1555
Std Dev 0.9467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

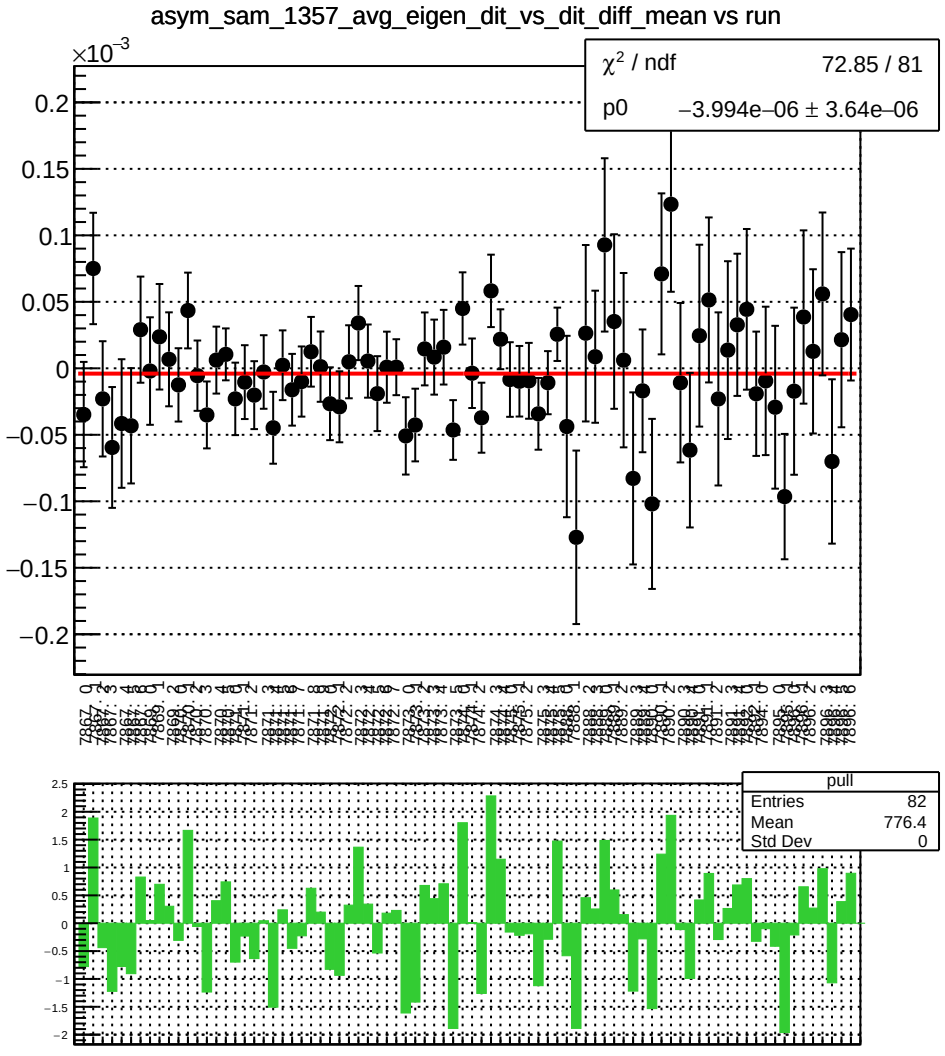

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.03e+05 / 81
p0 1.569e−10 ± 1.838e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

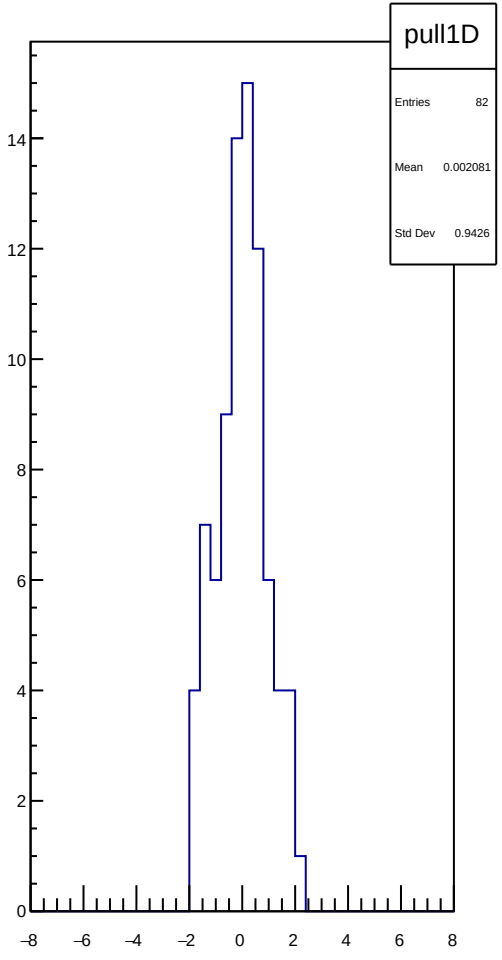

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.28 / 81
p0 0.1003 ± 0.05251
pull
Entries 82
Mean 1917
Std Dev 0
pull1D
Entries 82
Mean −0.0028
Std Dev 1.02

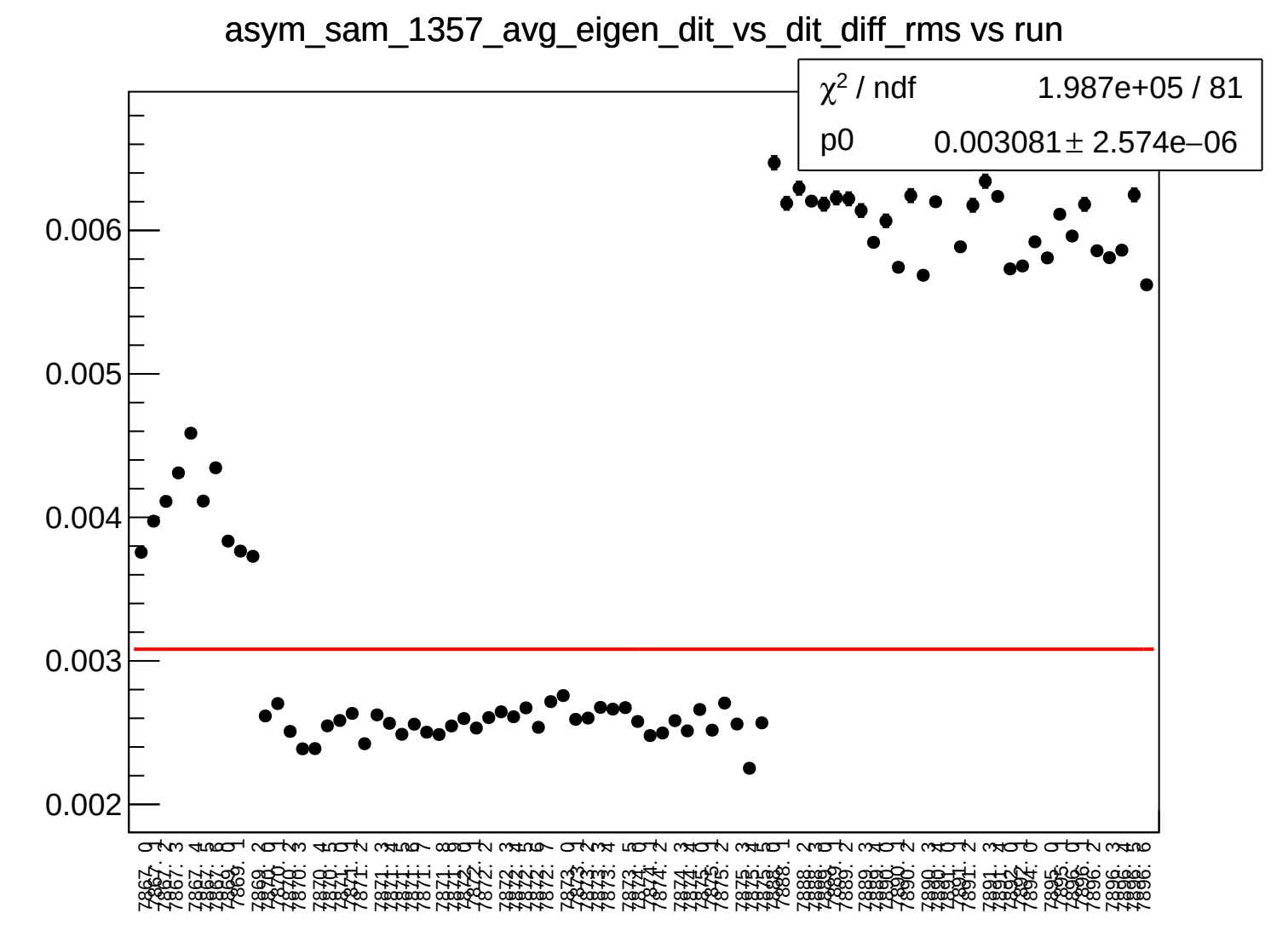

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 45.22 ± 0.03713
180
160
140
120
100
80
60
40
20

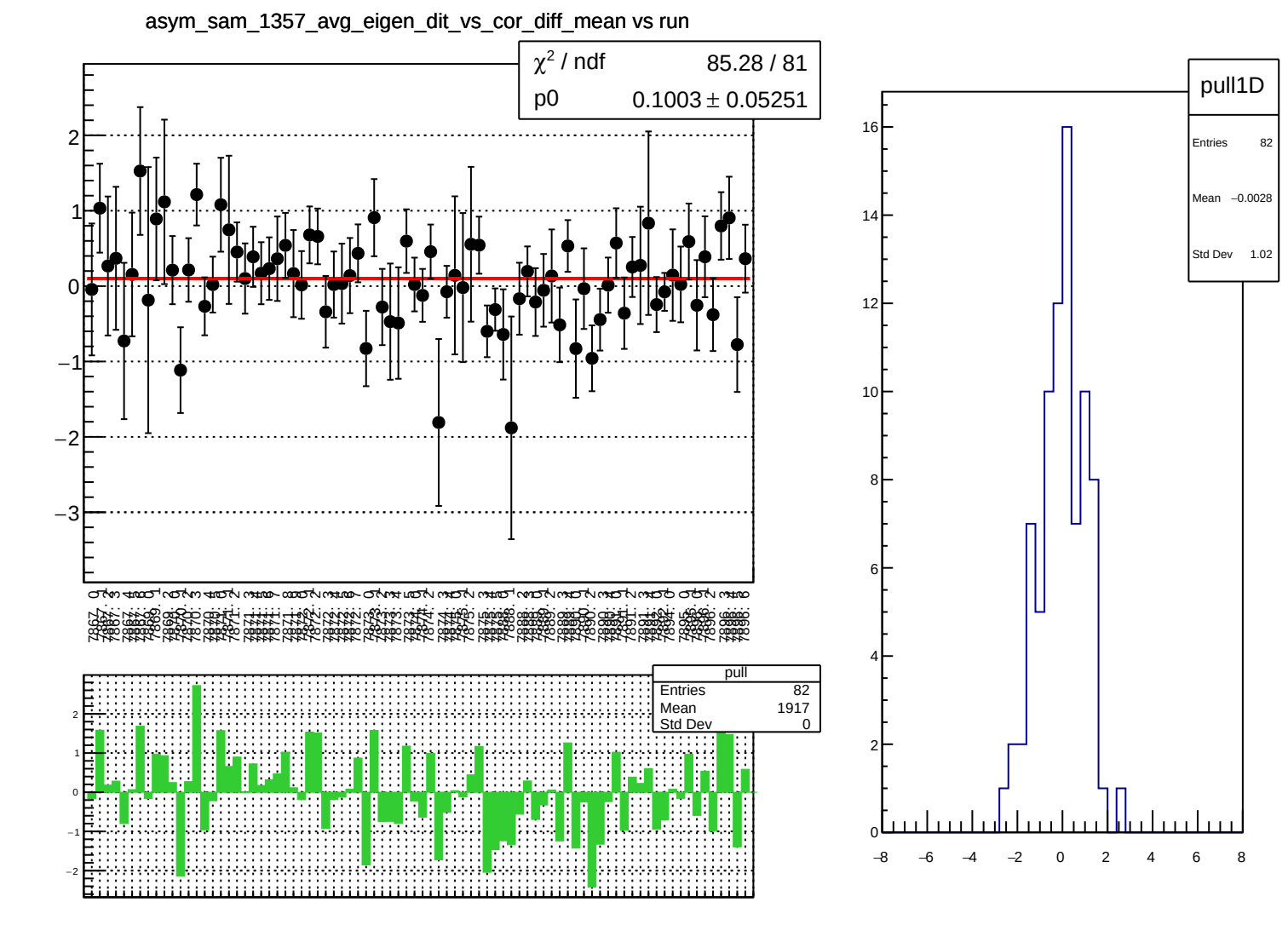

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.28 / 81
p0 0.1003 ± 0.05251
pull
Entries 82
Mean 1917
Std Dev 0
pull1D
Entries 82
Mean −0.0028
Std Dev 1.02

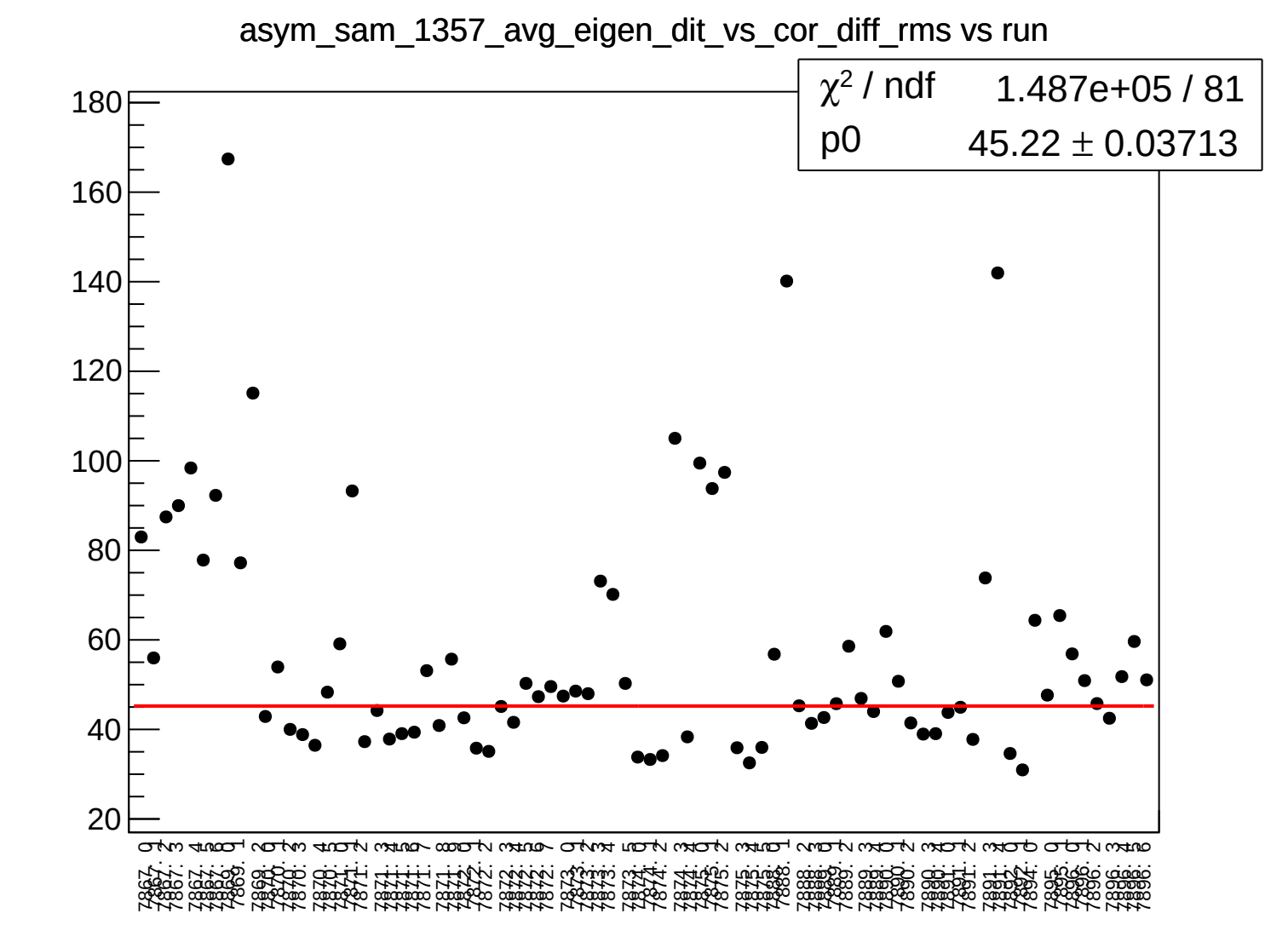

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 45.22 ± 0.03713
180
160
140
120
100
80
60
40
20

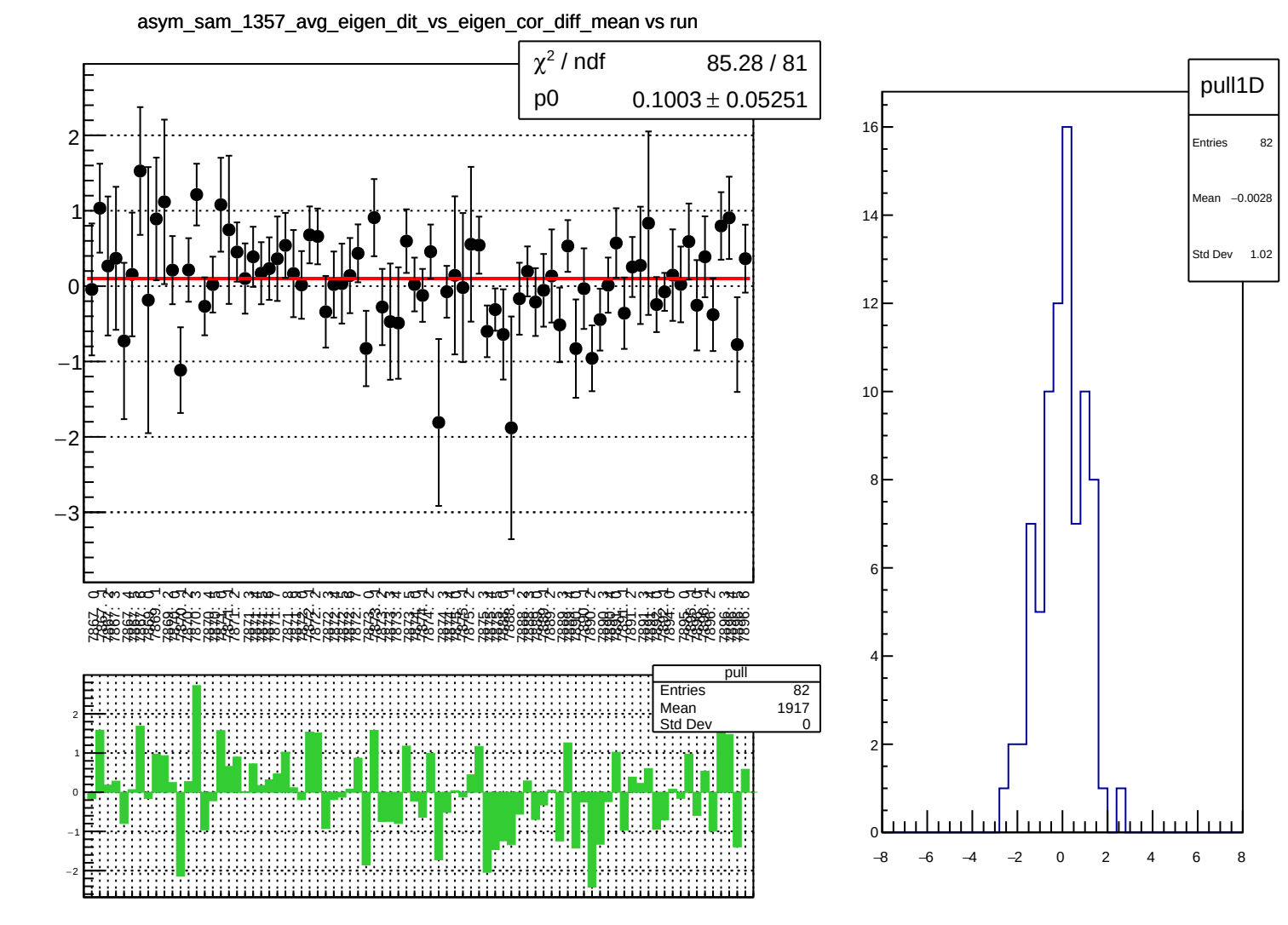

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.85 / 81
p0 −3.994e−06 ± 3.64e−06
pull
Entries 82
Mean 776.4
Std Dev 0

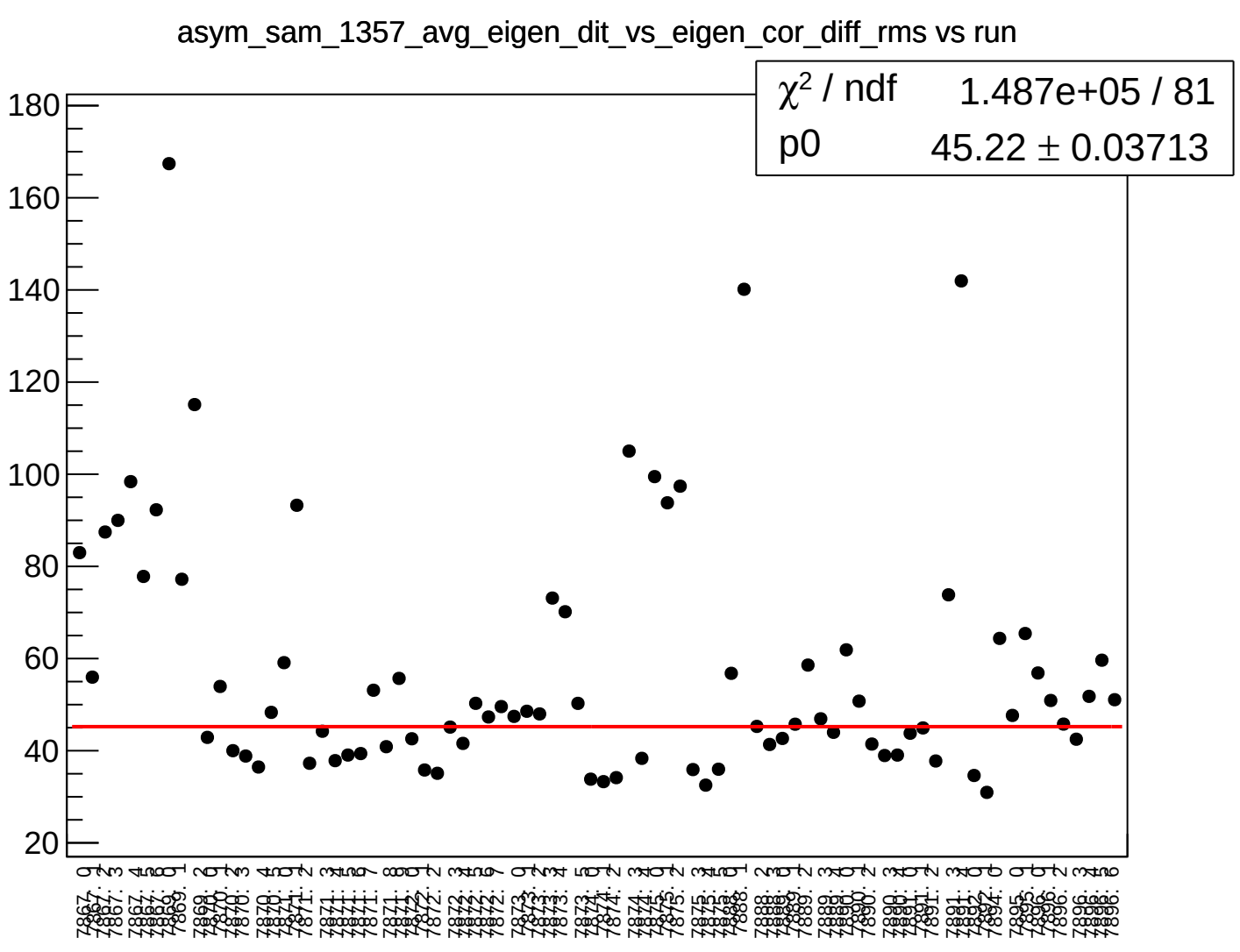

pull1D
Entries 82
Mean 0.002081
Std Dev 0.9426

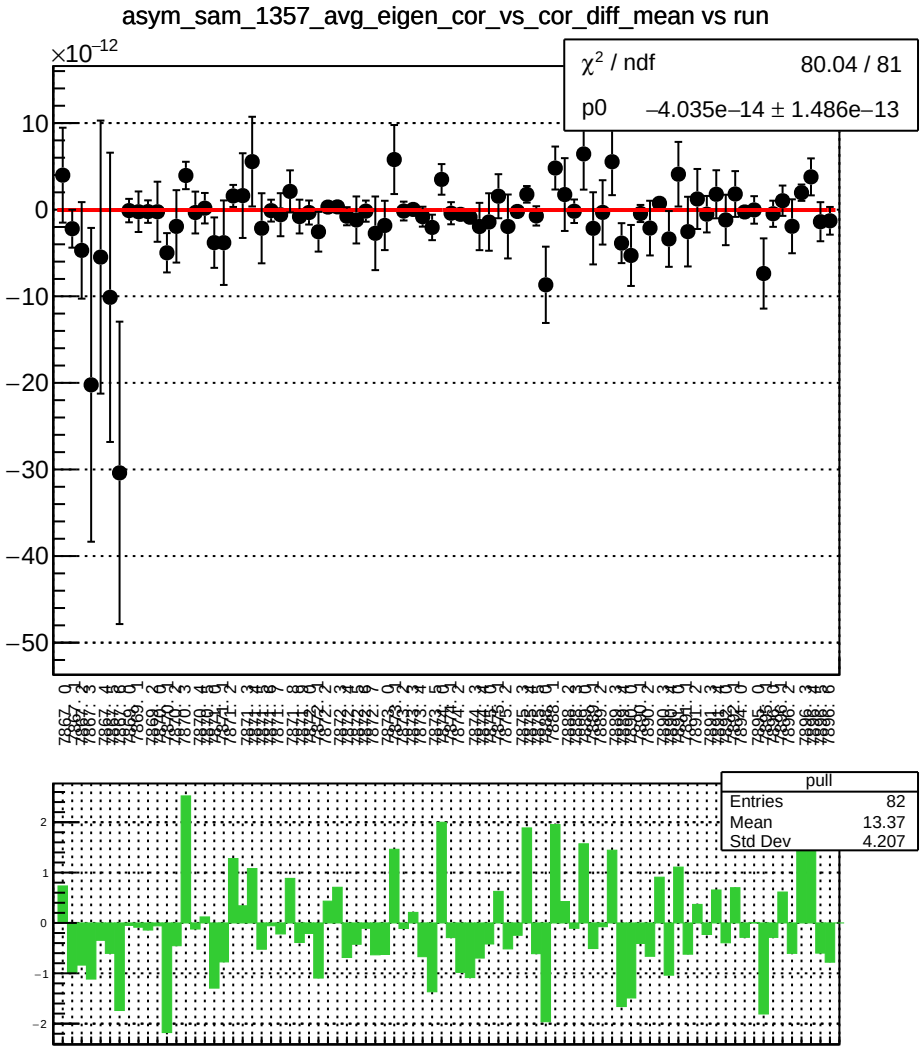

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.987e+05 / 81
p0 0.003081 ± 2.574e−06
0.006
0.005
0.004
0.003
0.002

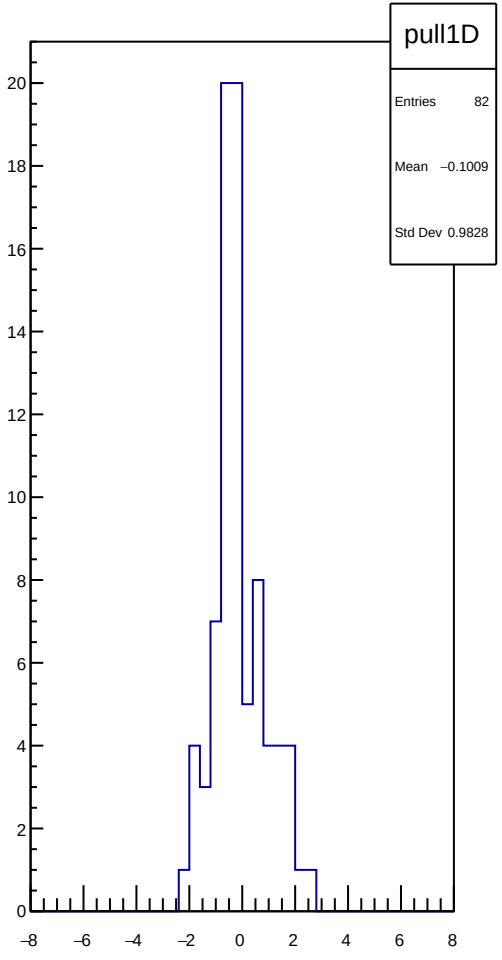

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.28 / 81
p0 0.1003 ± 0.05251
pull
Entries 82
Mean 1917
Std Dev 0
pull1D
Entries 82
Mean −0.0028
Std Dev 1.02

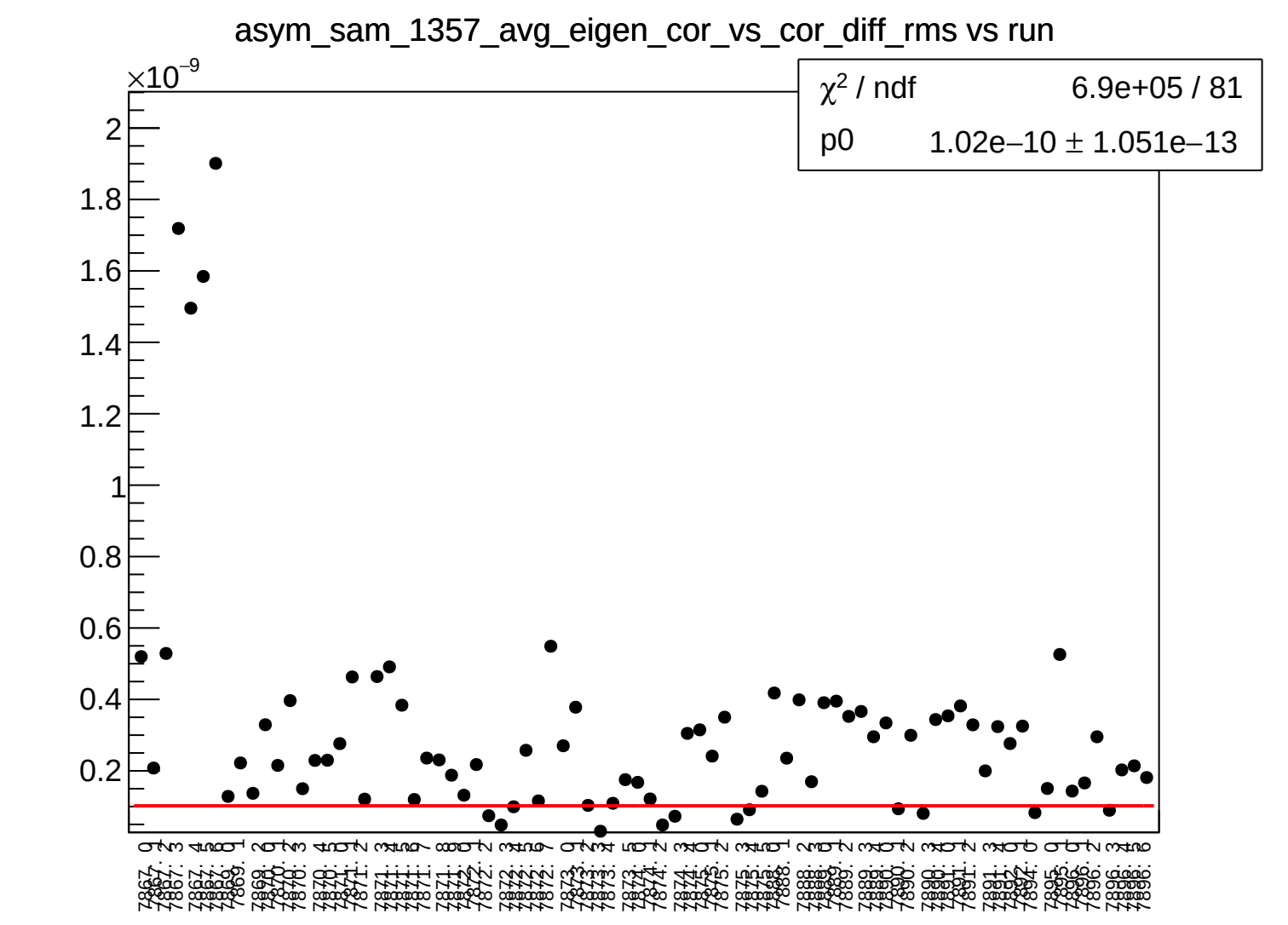

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 45.22 ± 0.03713
180
160
140
120
100
80
60
40
20

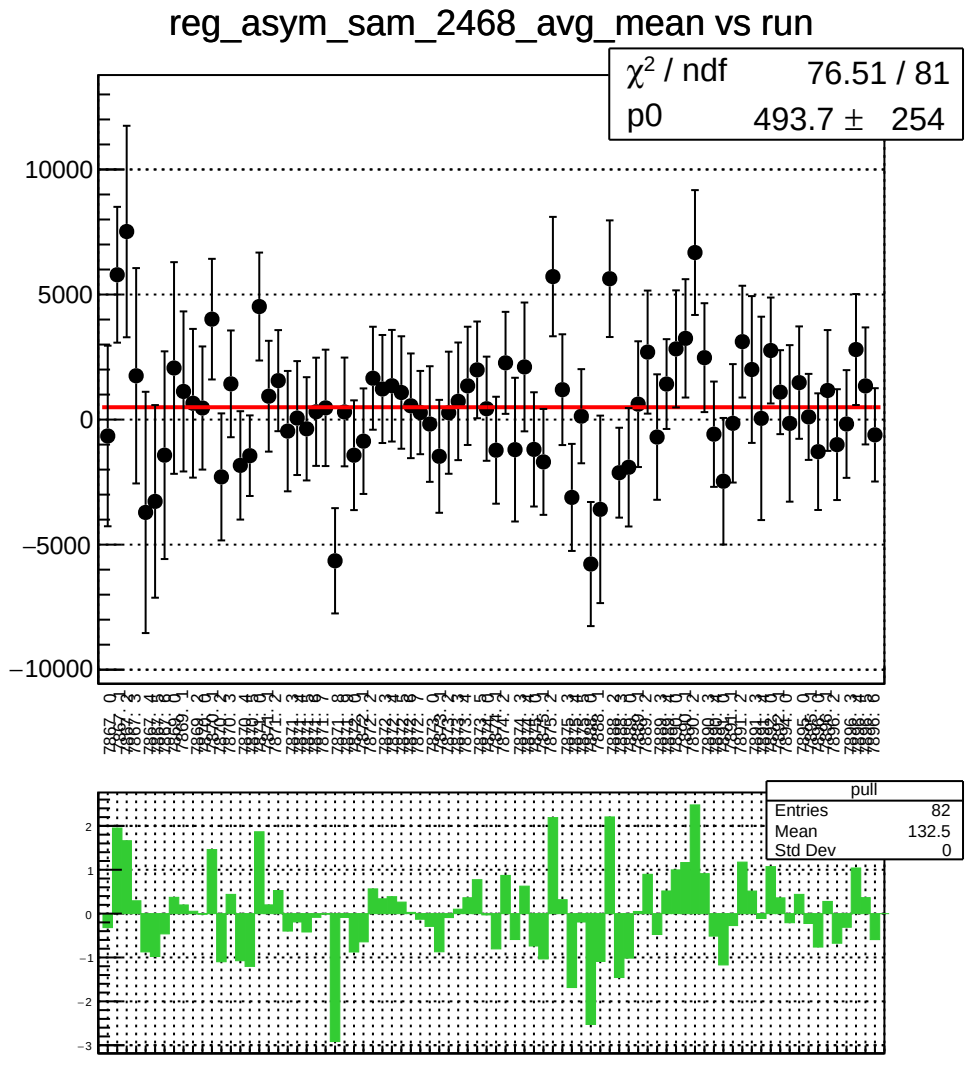

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.28 / 81
p0 0.1003 ± 0.05251
pull
Entries 82
Mean 1917
Std Dev 0
pull1D
Entries 82
Mean −0.0028
Std Dev 1.02

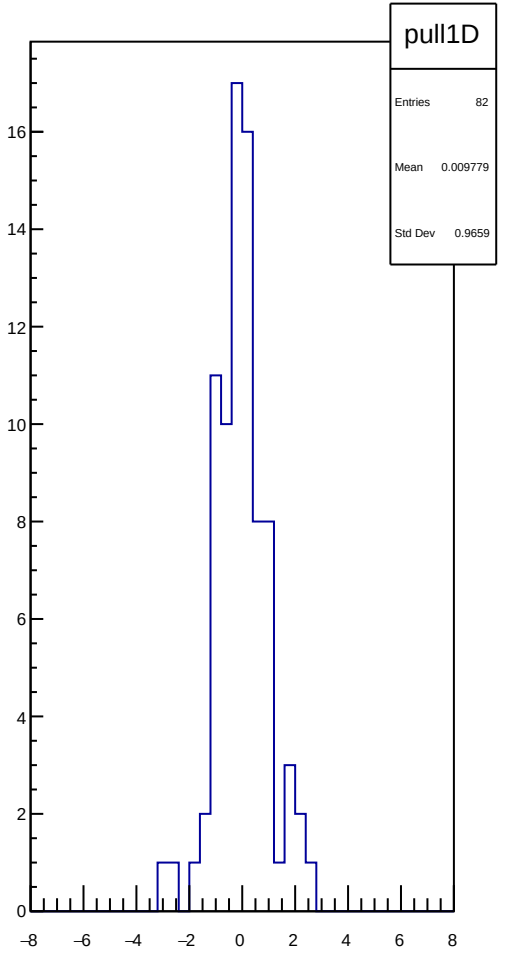

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 81
p0 45.22 ± 0.03713
180
160
140
120
100
80
60
40
20

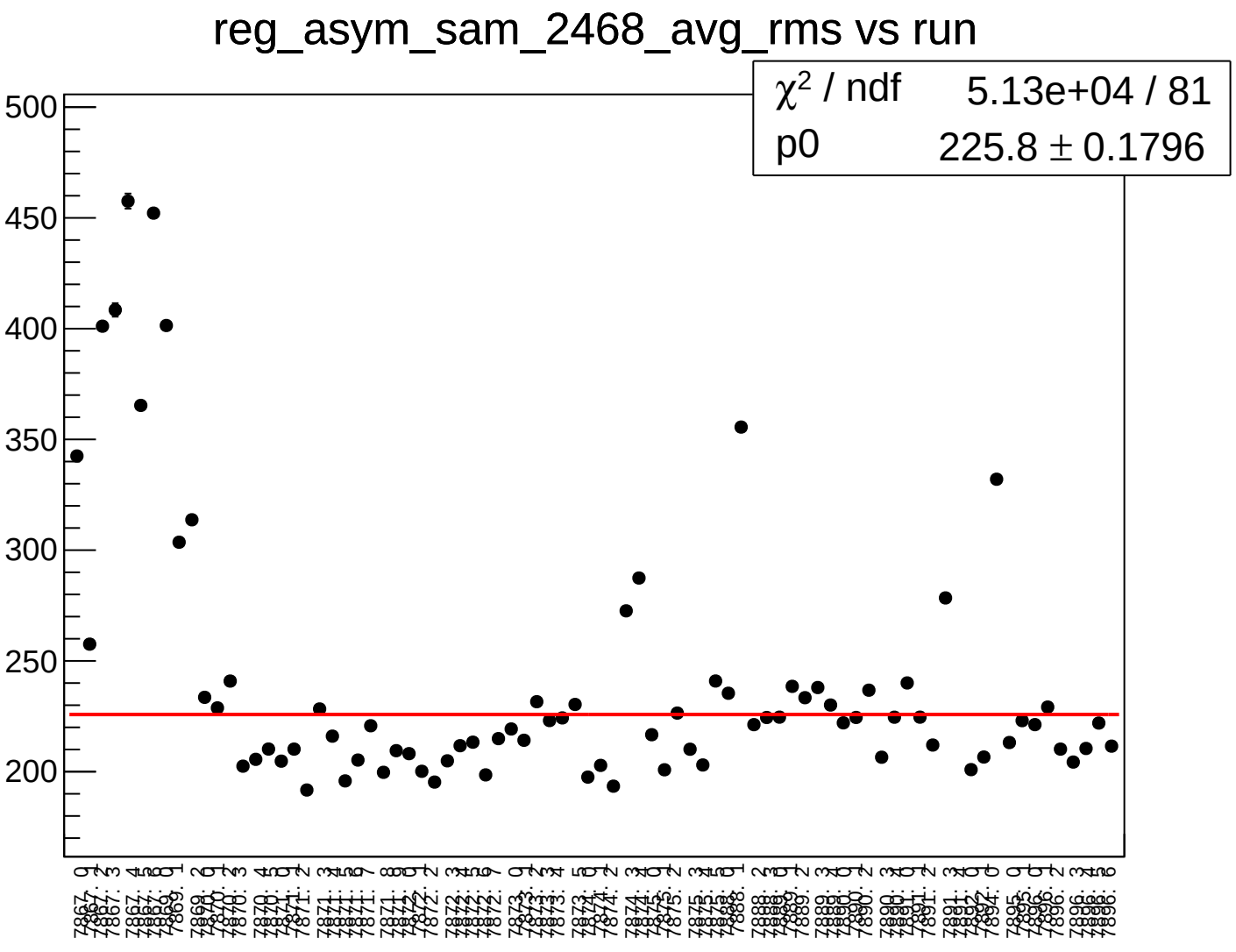

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.04 / 81
p0 −4.035e−14 ± 1.486e−13
pull
Entries 82
Mean 13.37
Std Dev 4.207

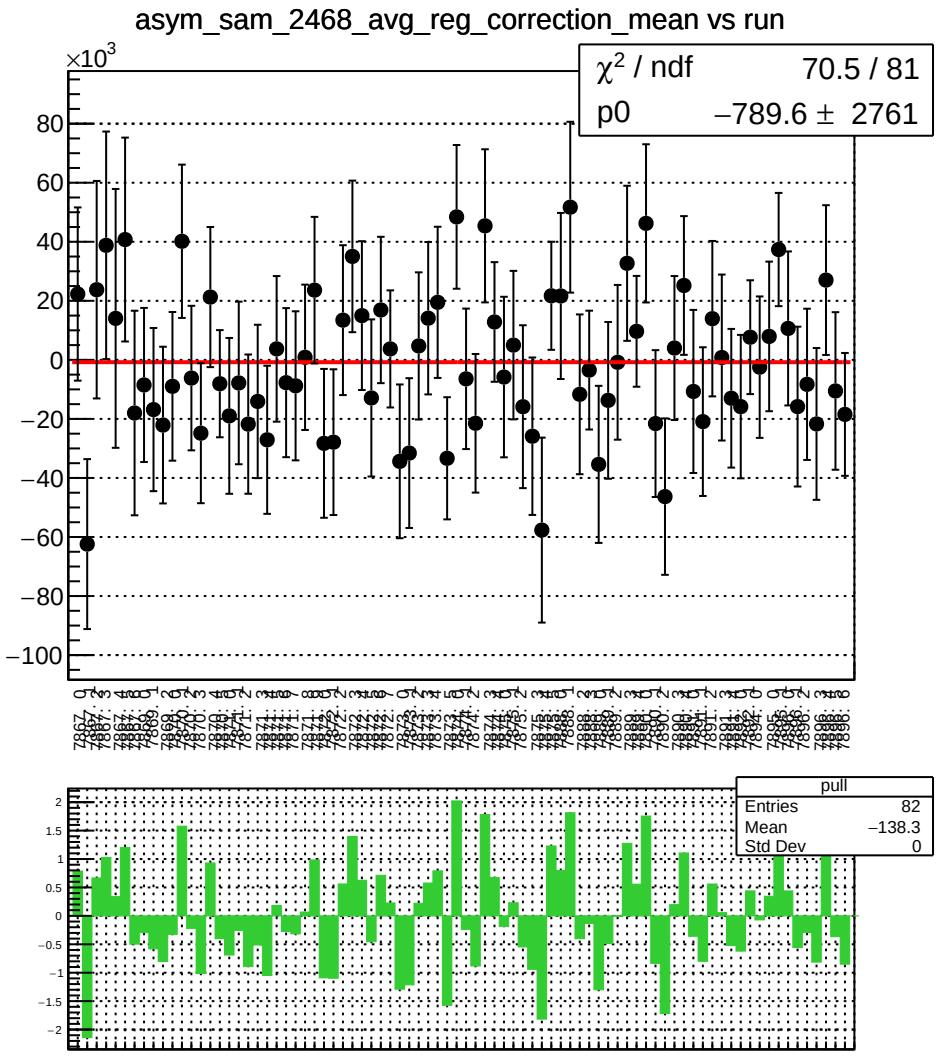

pull1D
Entries 82
Mean −0.1009
Std Dev 0.9828

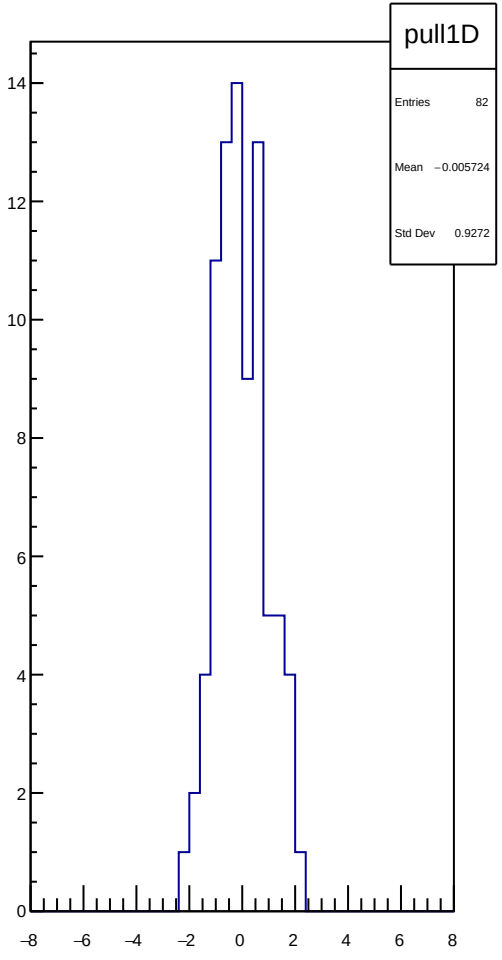

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.9e+05 / 81
p0 1.02e−10 ± 1.051e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

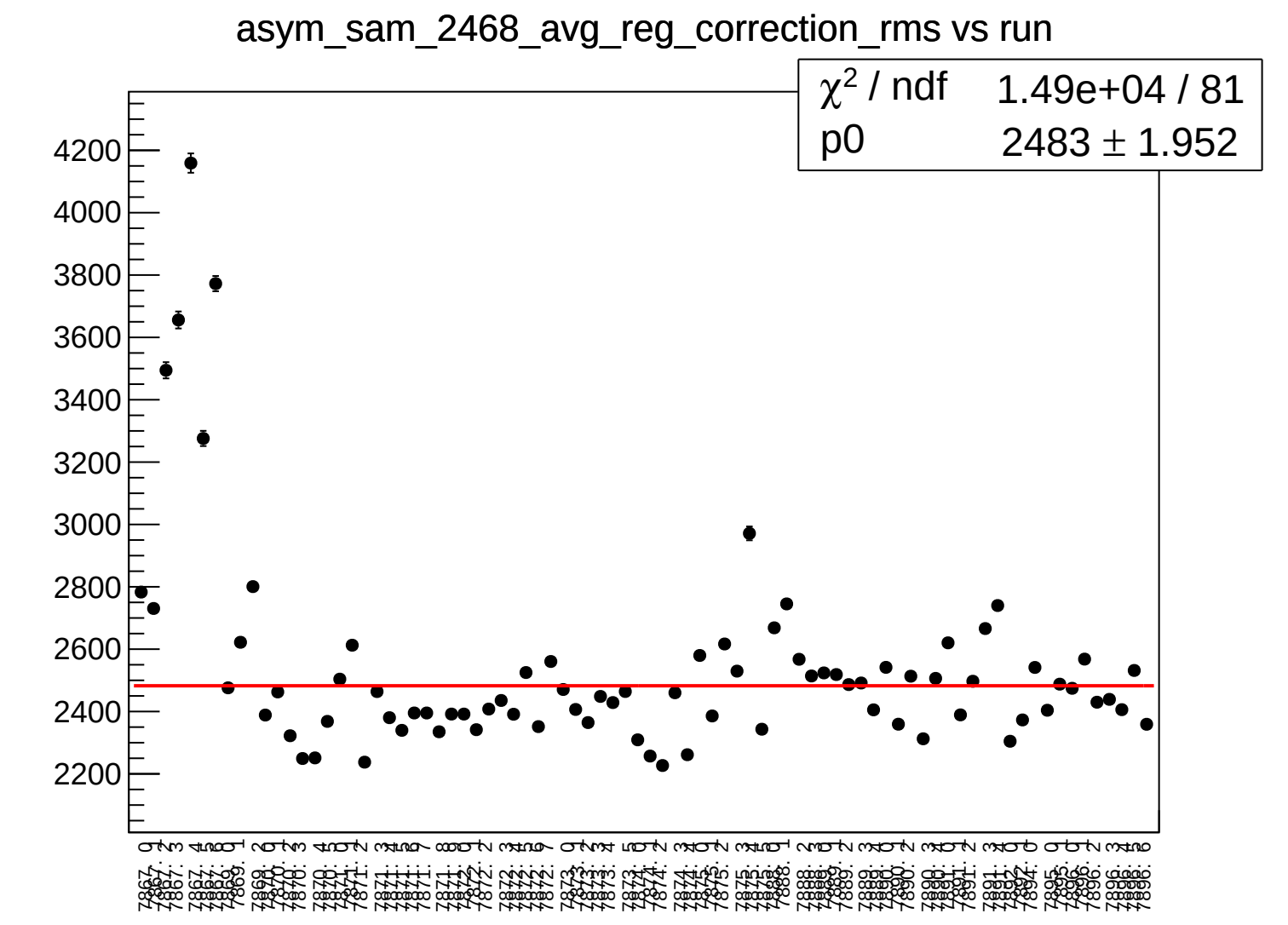

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 76.51 / 81
p0 493.7 ± 254
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 132.5
Std Dev 0
2
1
0
−1
−2
−3

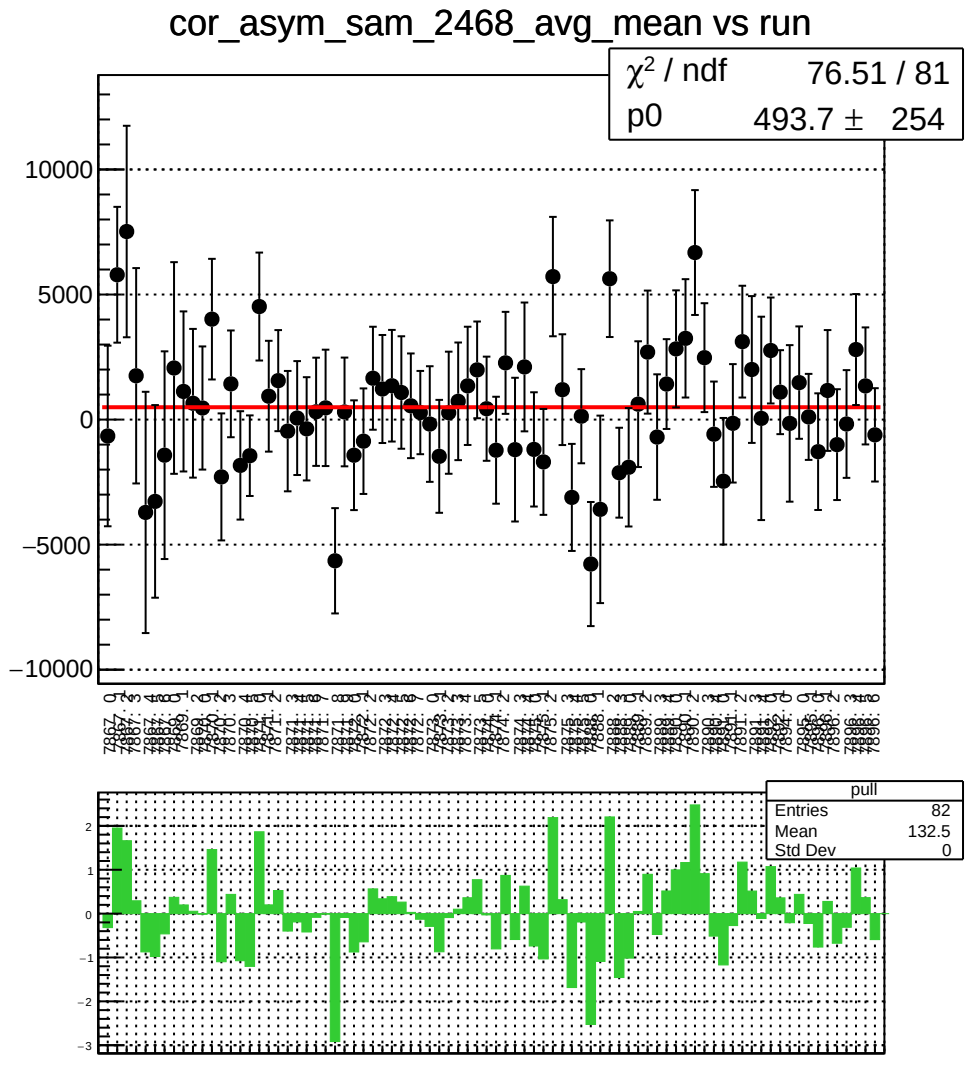

pull1D
Entries 82
Mean 0.009779
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

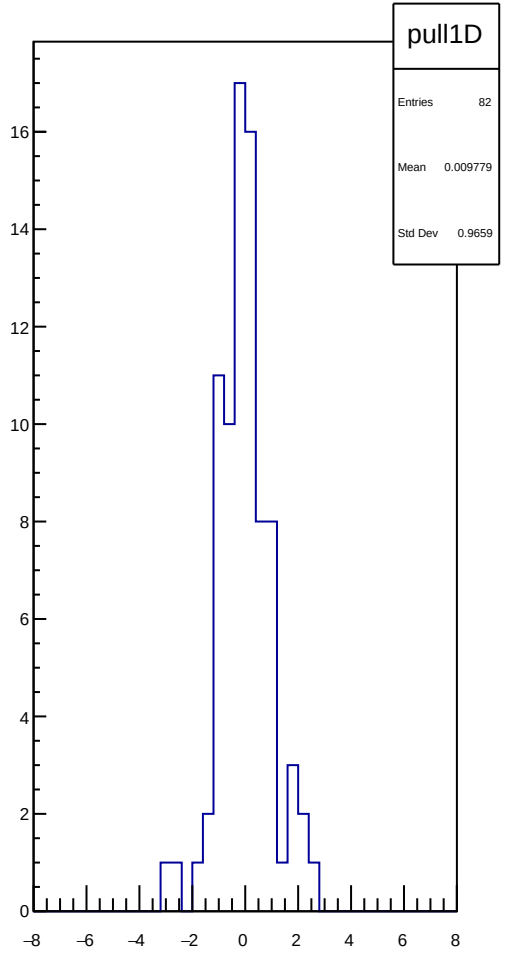

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 5.13e+04 / 81
p0 225.8 ± 0.1796
500
450
400
350
300
250
200

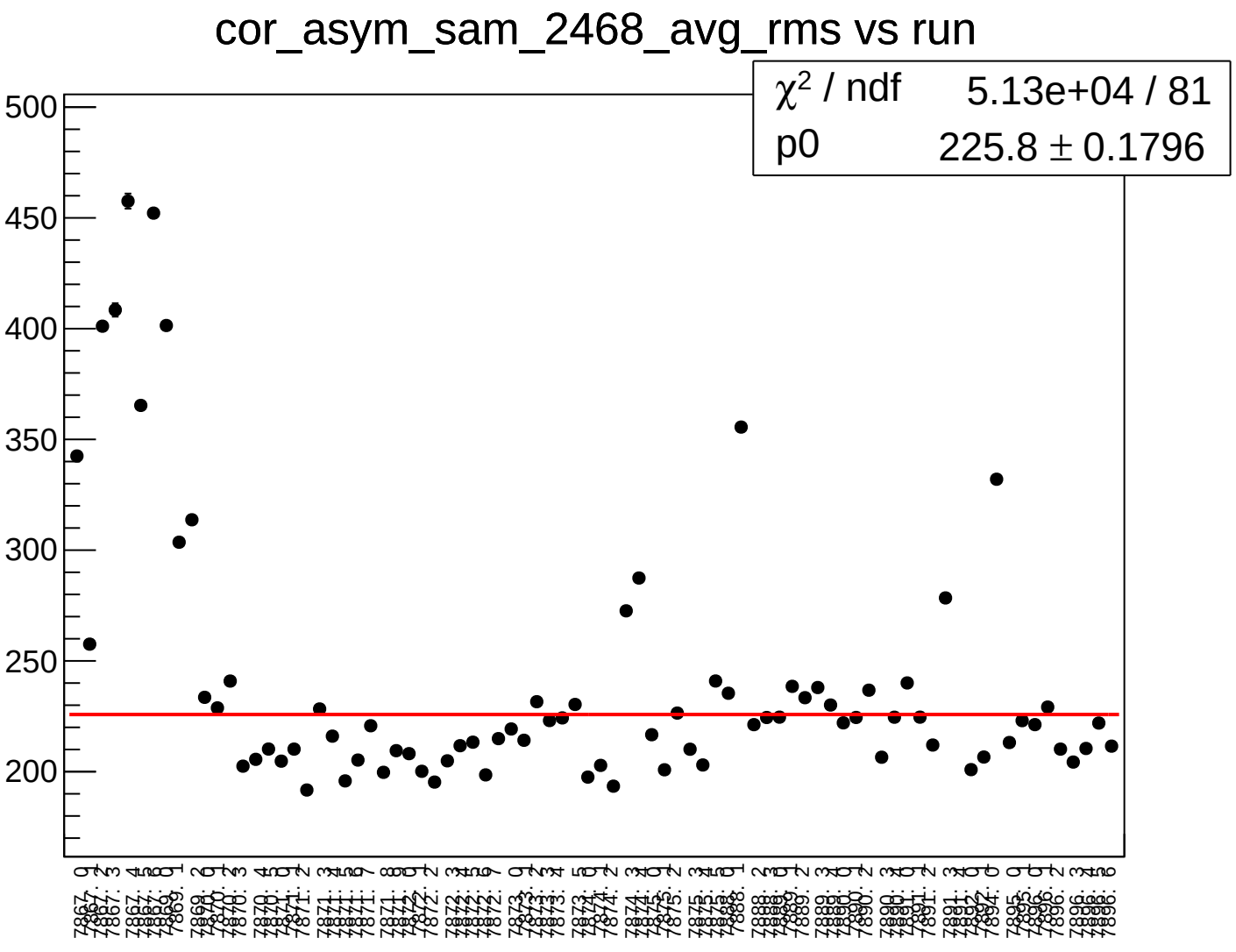

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.5 / 81
p0 −789.6 ± 2761
pull
Entries 82
Mean −138.3
Std Dev 0

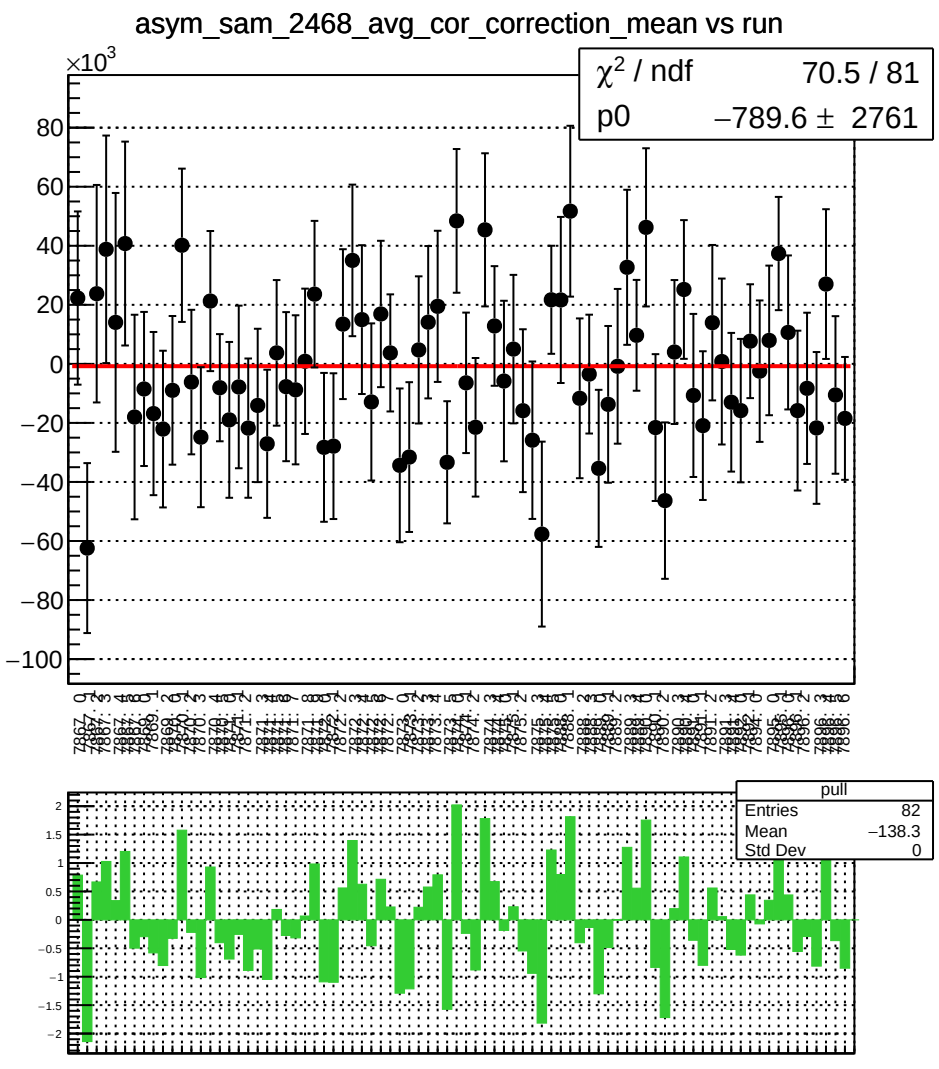

pull1D
Entries 82
Mean −0.005724
Std Dev 0.9272

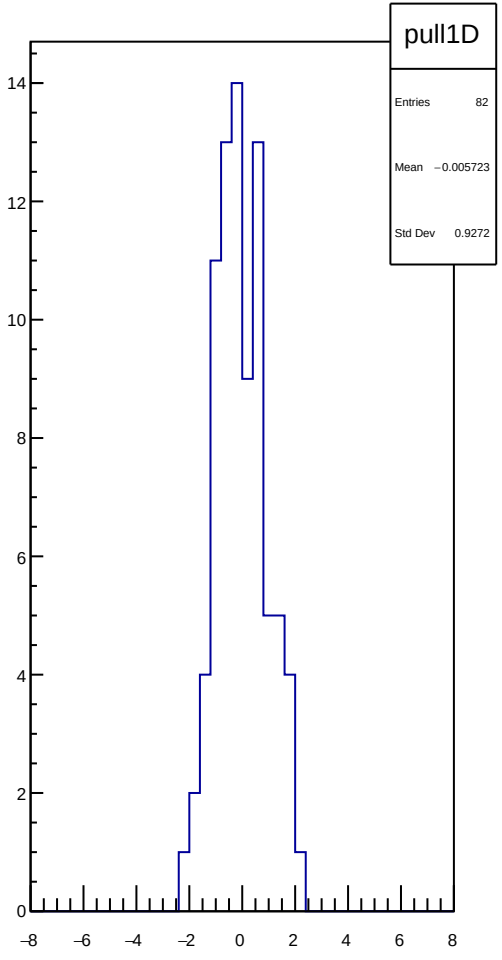

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.49e+04 / 81
p0 2483 ± 1.952
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

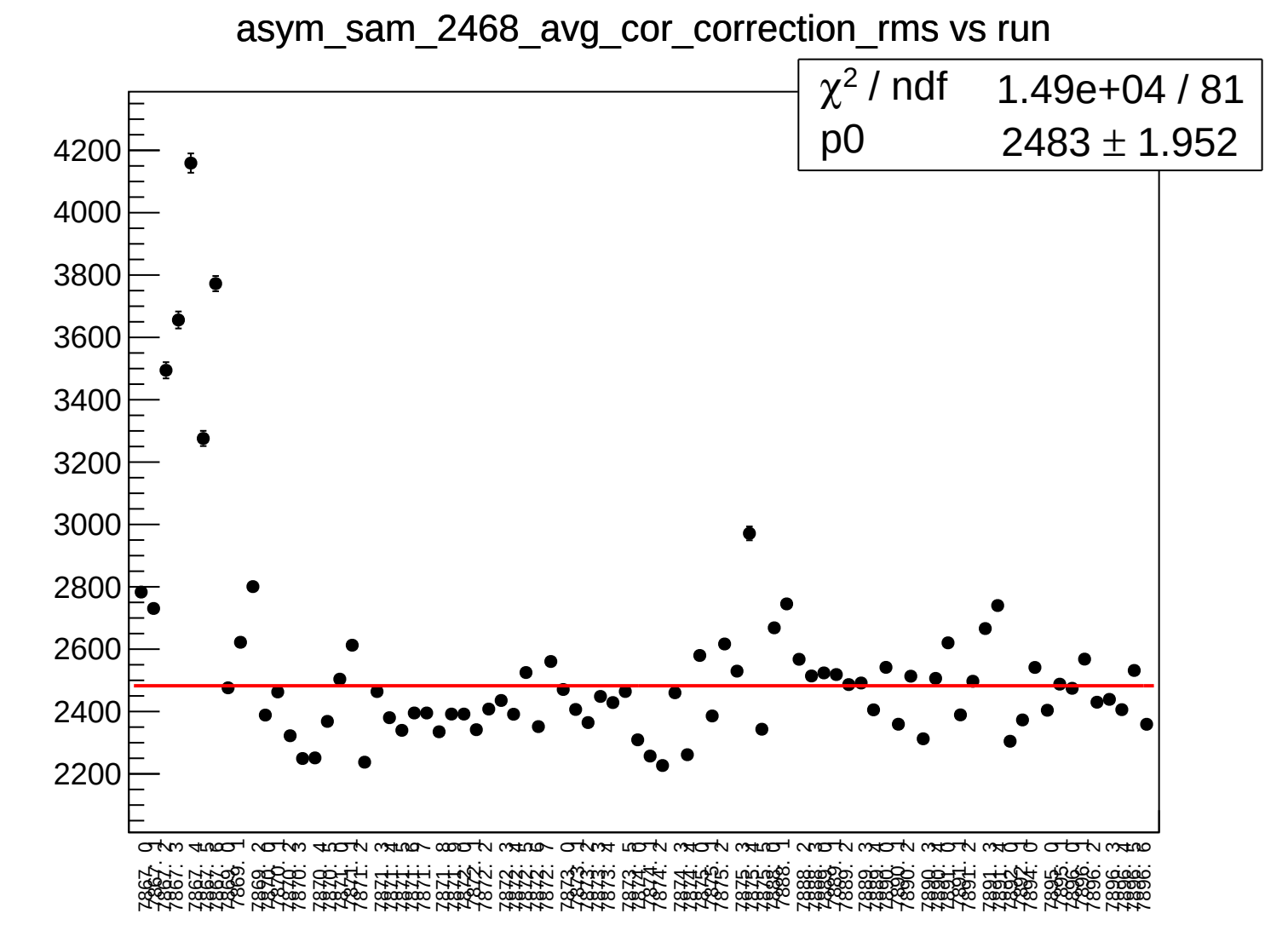

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.51 / 81
p0 493.7 ± 254
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 132.5
Std Dev 0
2
1
0
−1
−2
−3

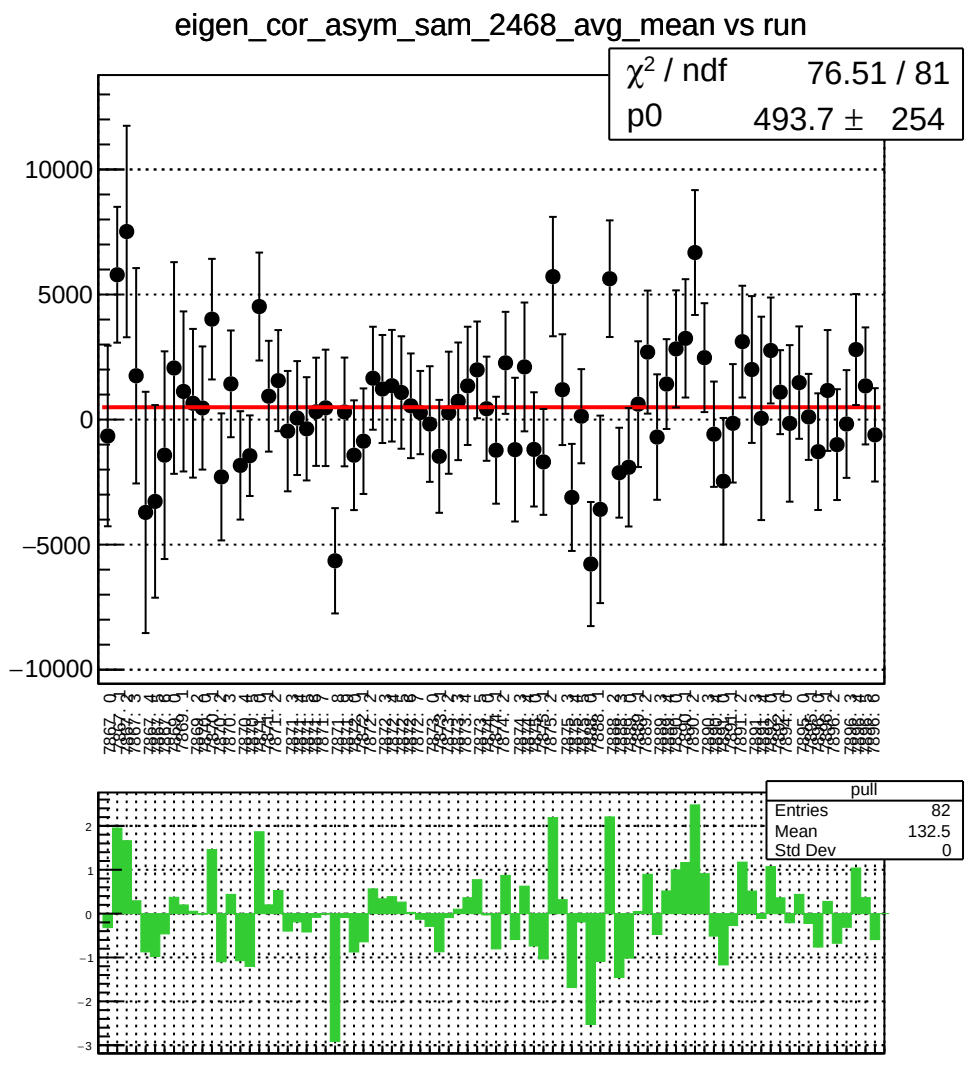

pull1D
Entries 82
Mean 0.009779
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

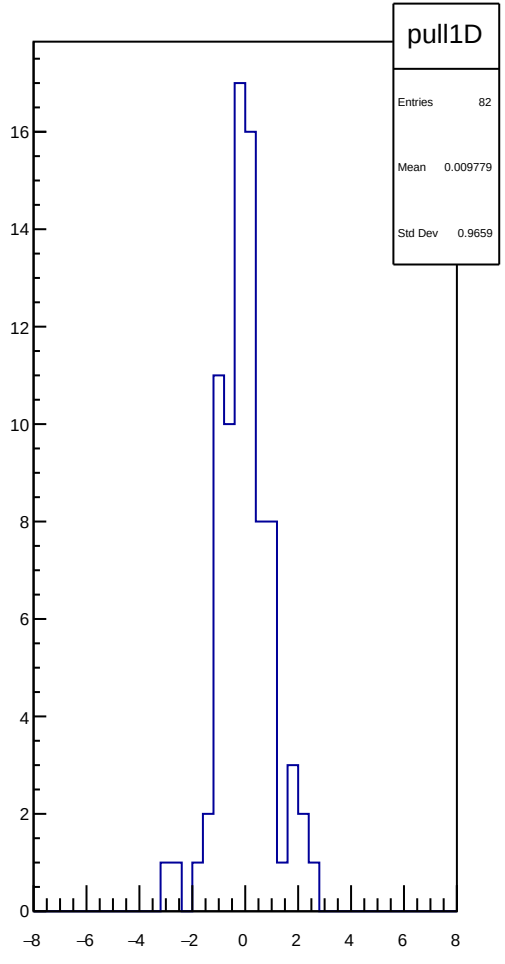

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5.13e+04 / 81
p0 225.8 ± 0.1796
500
450
400
350
300
250
200

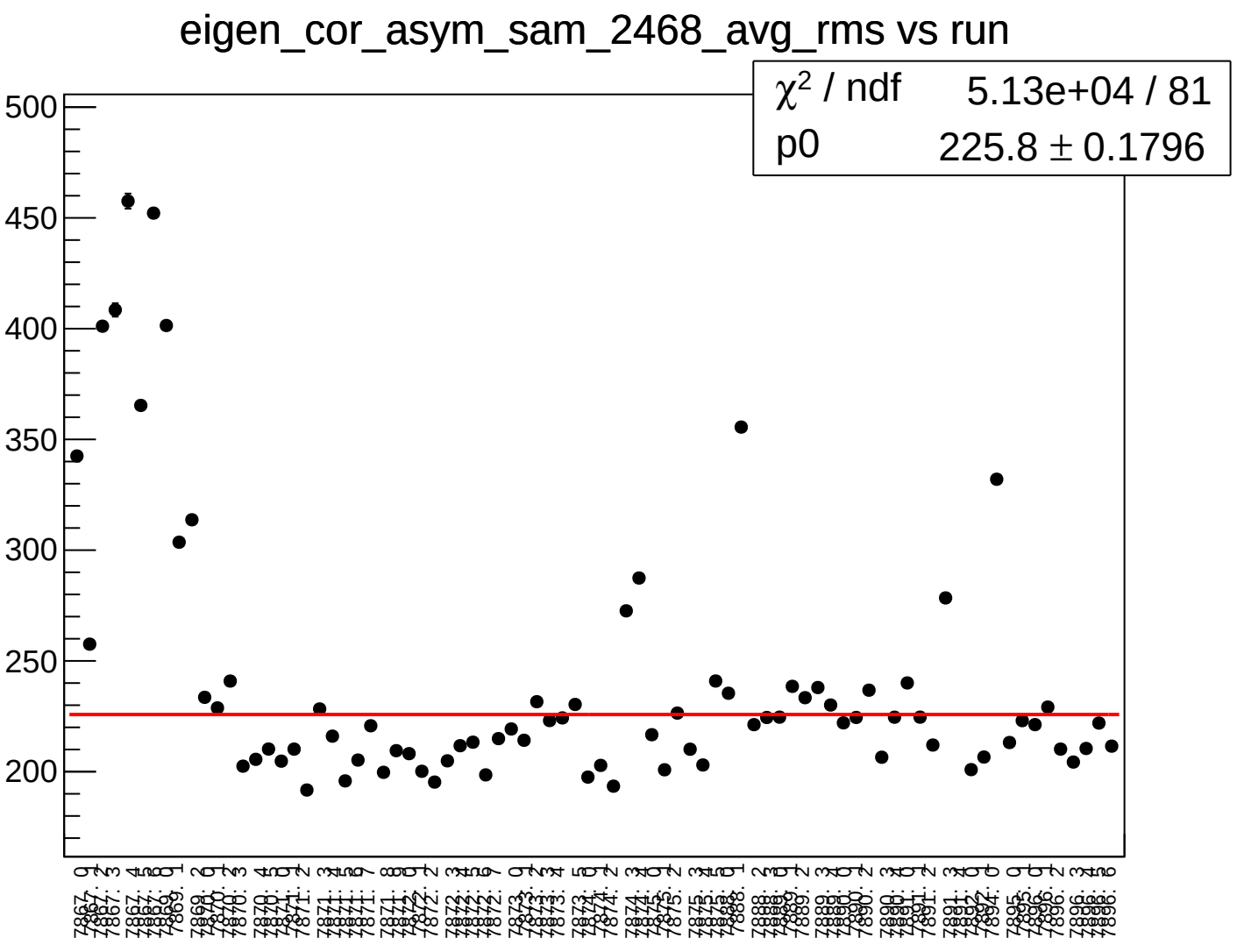

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.5 / 81
p0 −789.6 ± 2761
pull
Entries 82
Mean −138.3
Std Dev 0

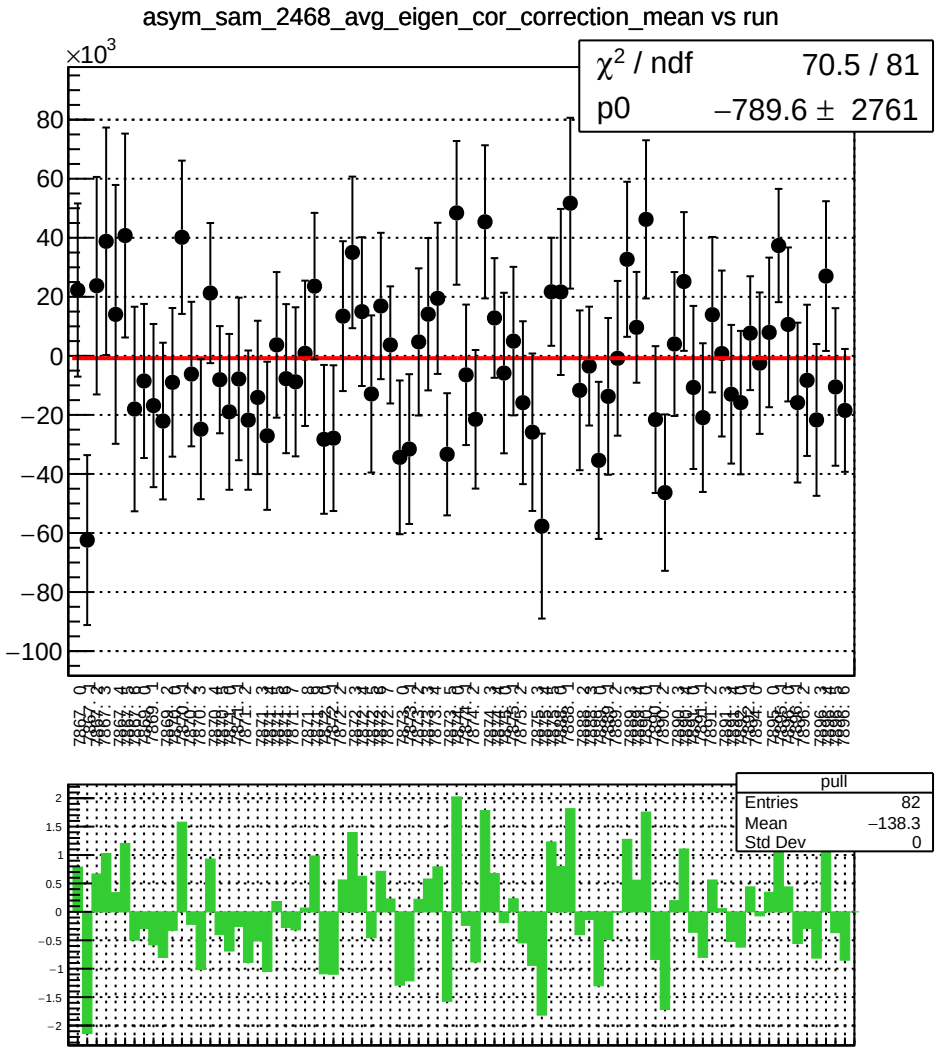

pull1D
Entries 82
Mean −0.005723
Std Dev 0.9272

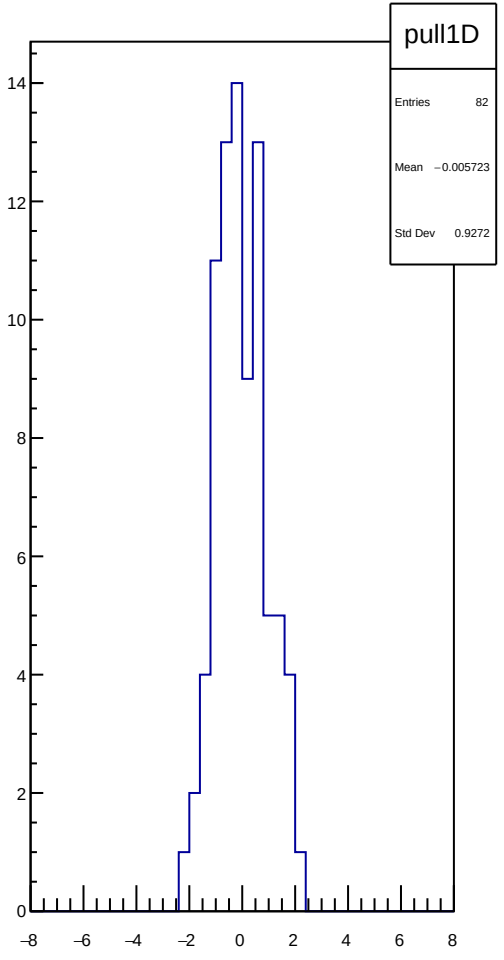

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.49e+04 / 81
p0 2483 ± 1.952
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

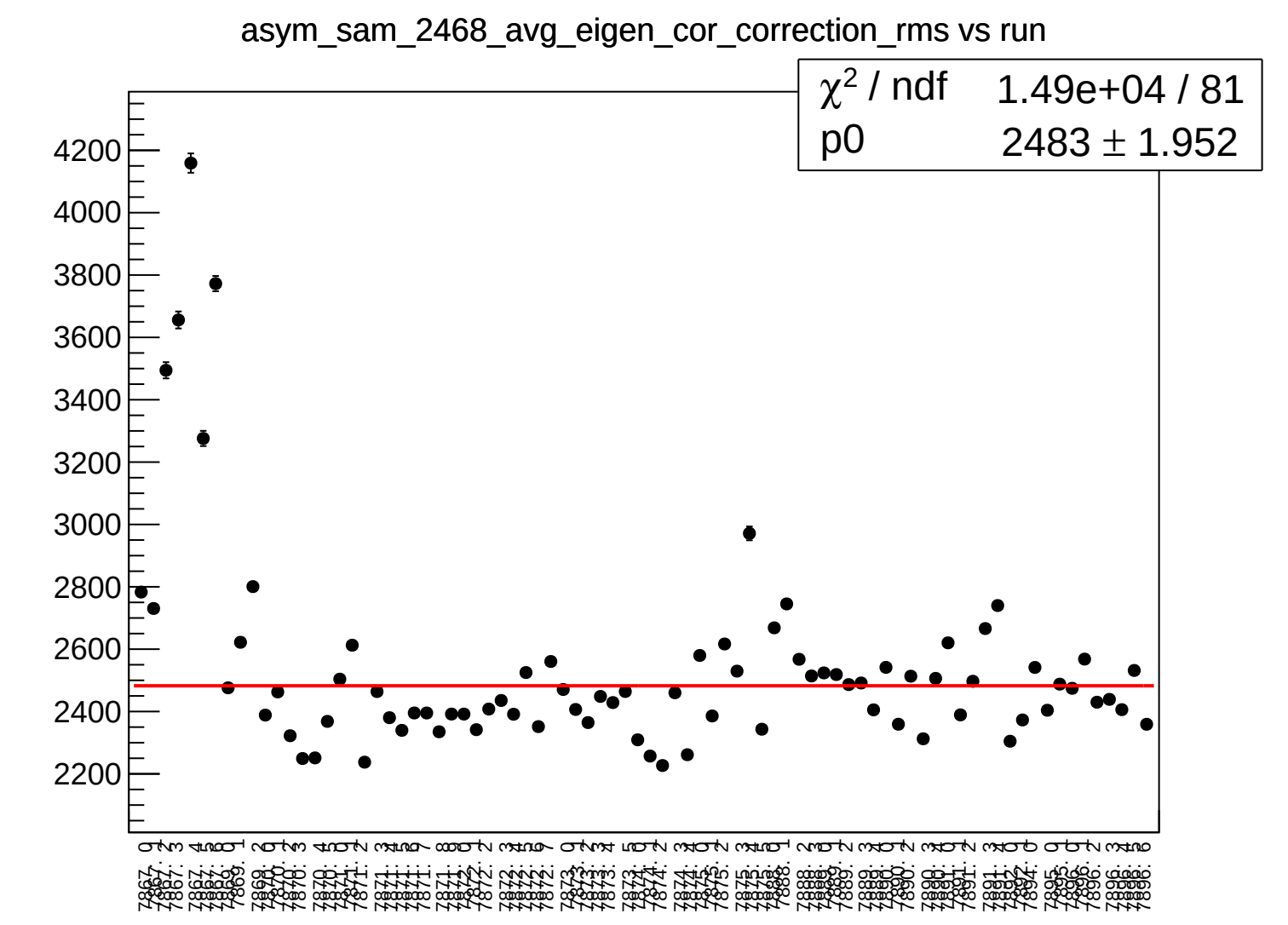

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.51 / 81
p0 493.7 ± 254
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 132.5
Std Dev 0
2
1
0
−1
−2
−3

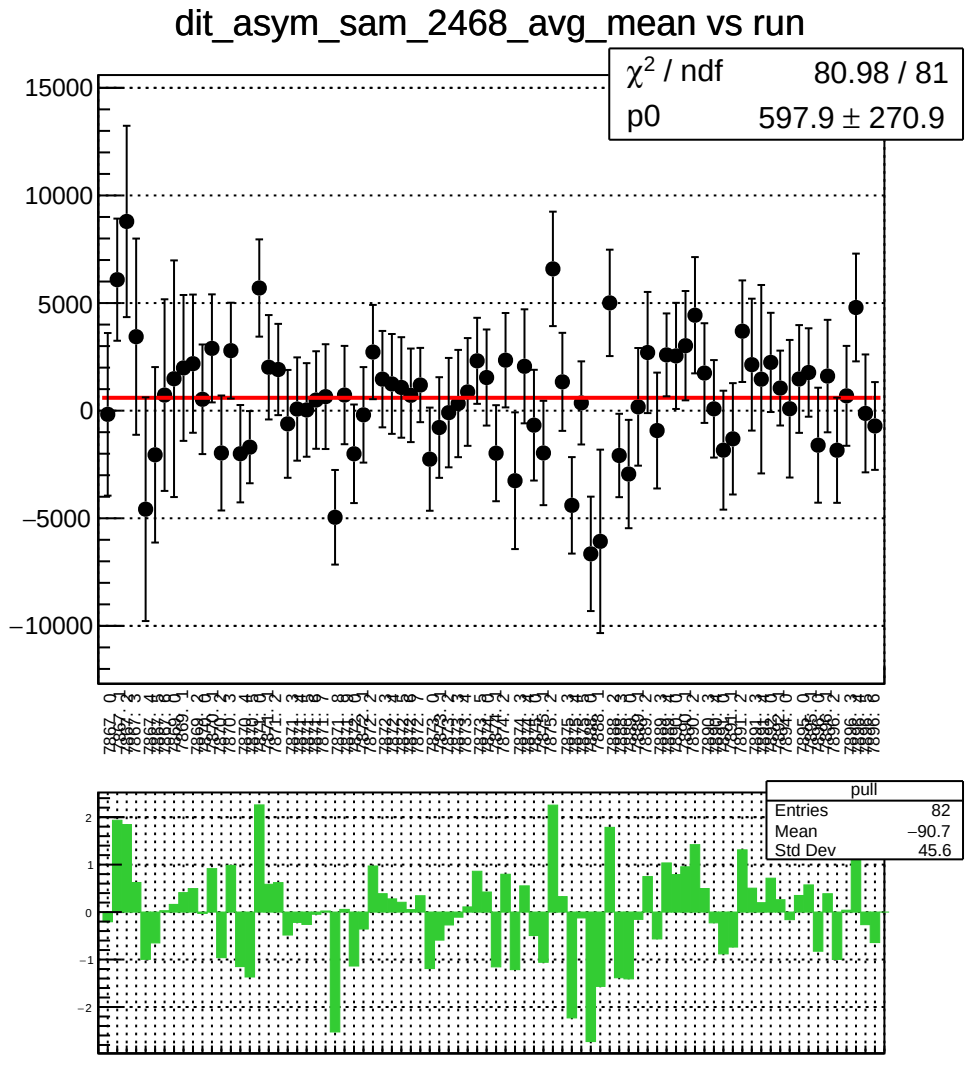

pull1D
Entries 82
Mean 0.009779
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

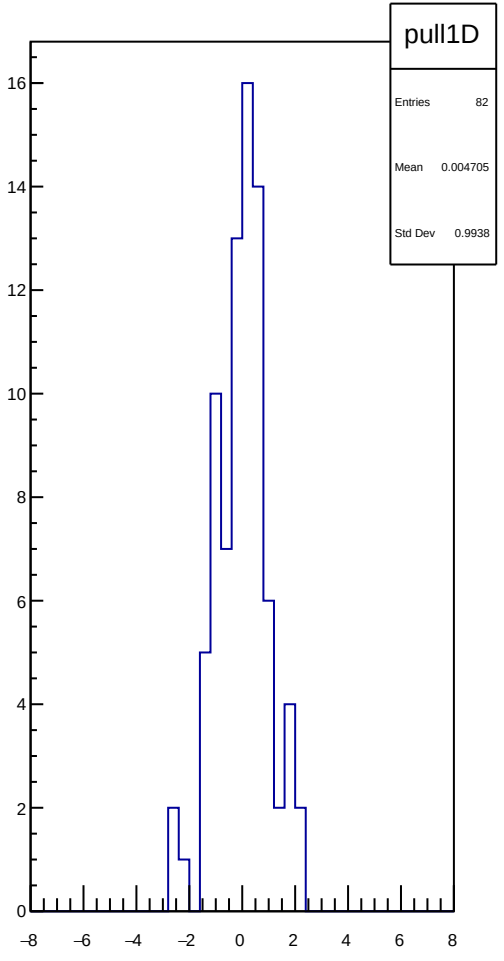

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5.13e+04 / 81
p0 225.8 ± 0.1796
500
450
400
350
300
250
200

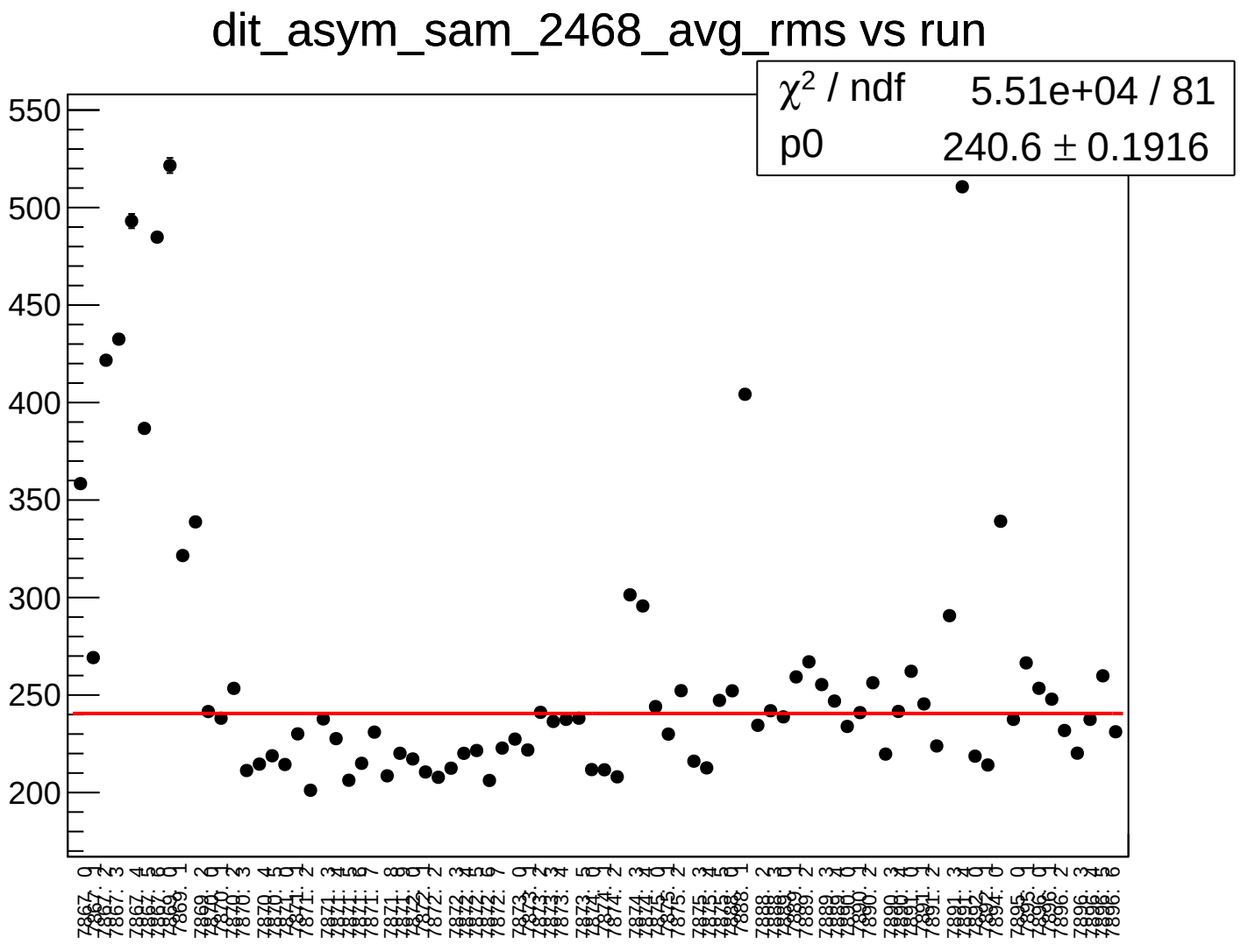

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.5 / 81
p0 −789.6 ± 2761
pull
Entries 82
Mean −138.3
Std Dev 0

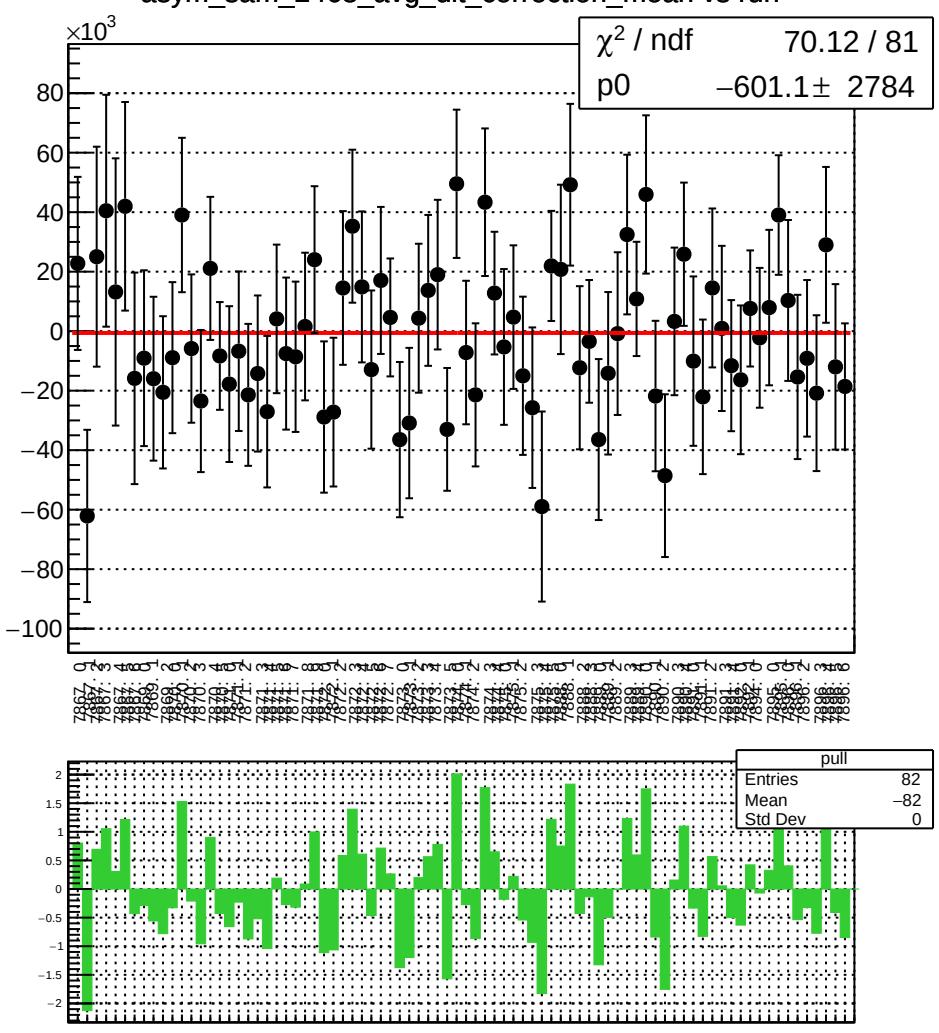

pull1D
Entries 82
Mean −0.005723
Std Dev 0.9272

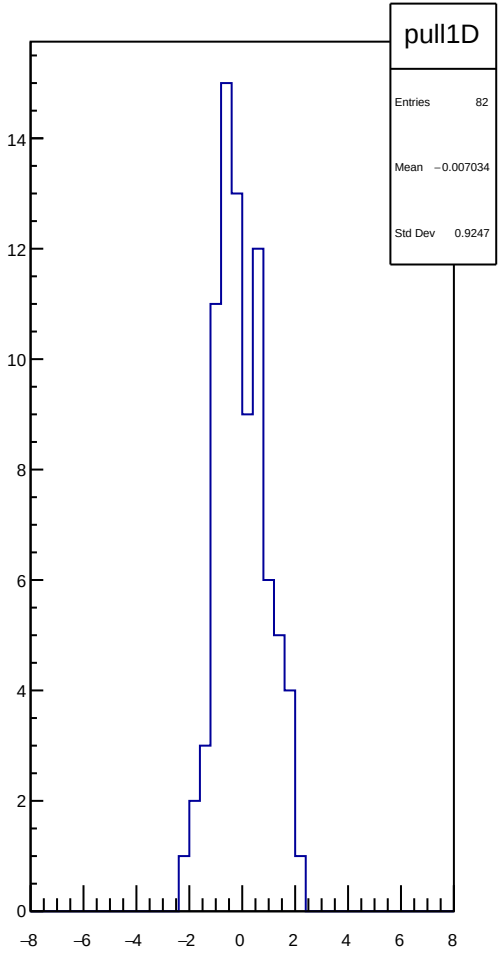

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.49e+04 / 81
p0 2483 ± 1.952
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

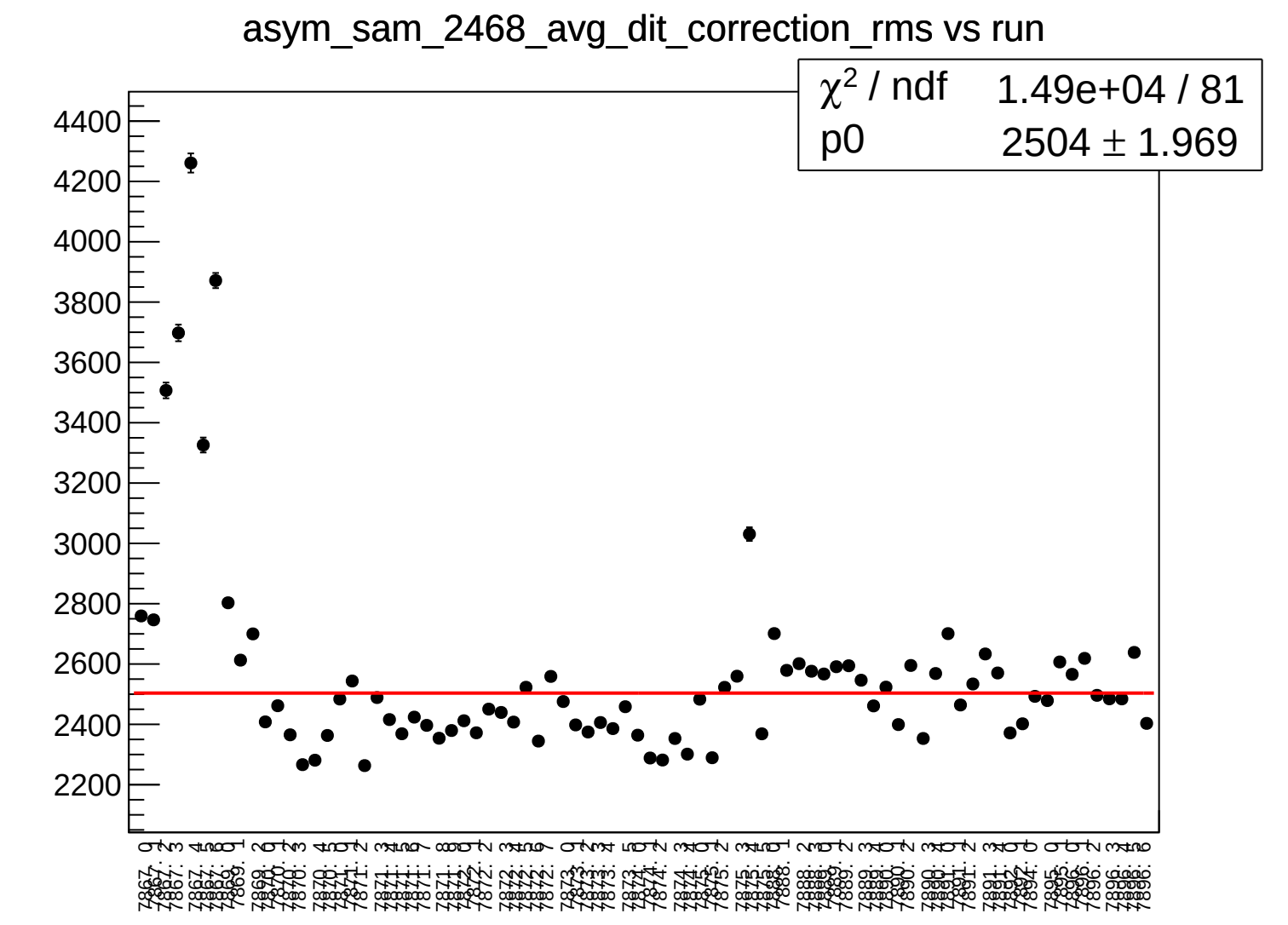

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 80.98 / 81
p0 597.9 ± 270.9
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −90.7
Std Dev 45.6
2
1
0
−1
−2

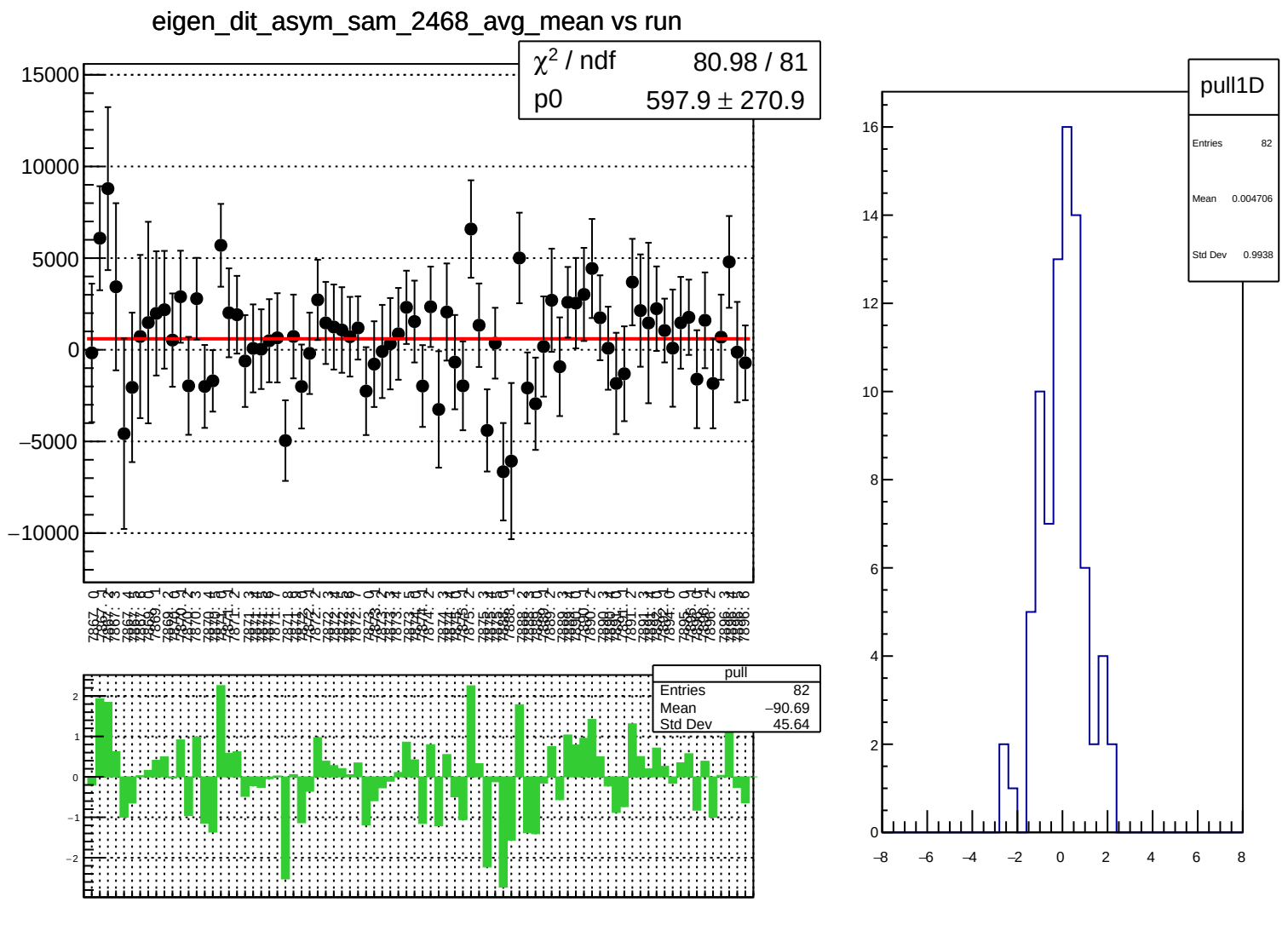

pull1D
Entries 82
Mean 0.004705
Std Dev 0.9938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

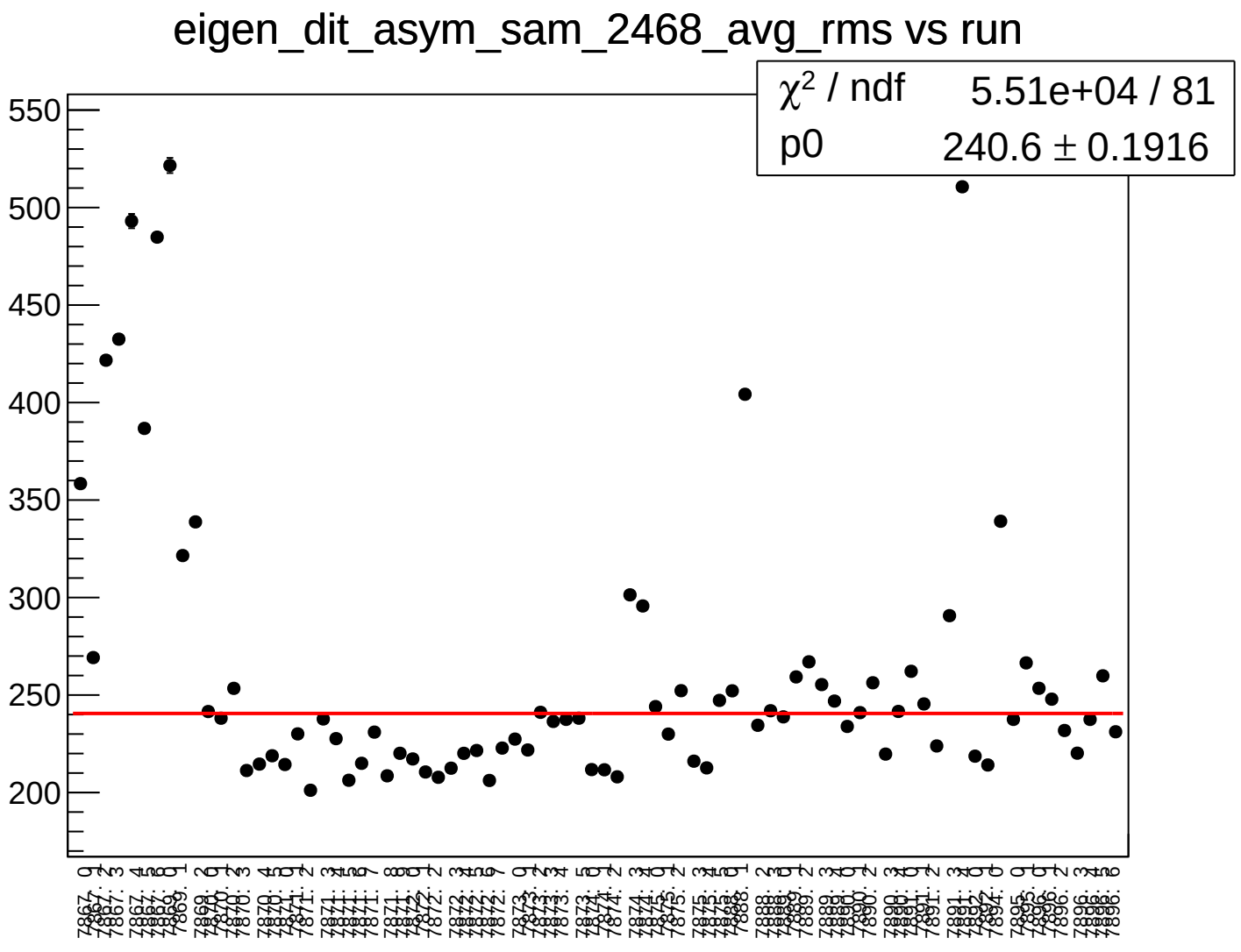

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5.51e+04 / 81
p0 240.6 ± 0.1916
550
500
450
400
350
300
250
200

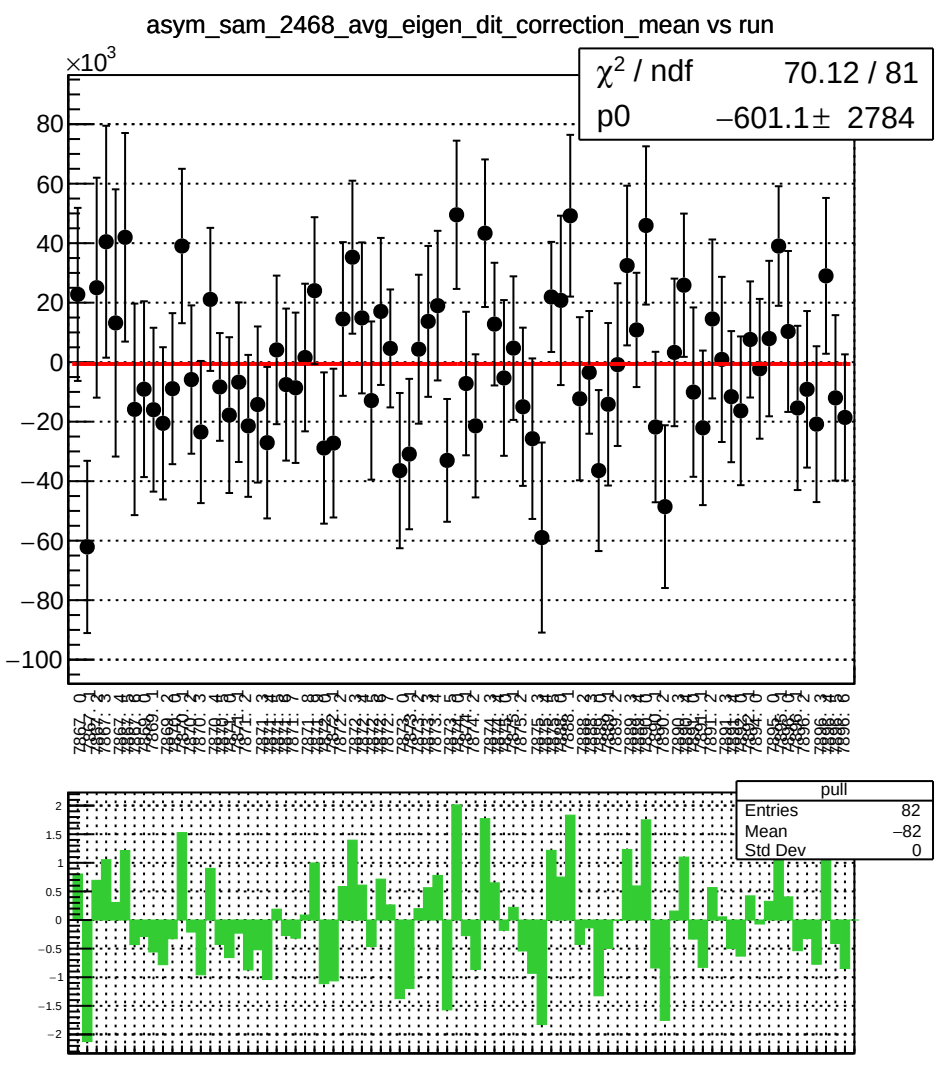

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 70.12 / 81
p0 −601.1± 2784
pull
Entries 82
Mean −82
Std Dev 0

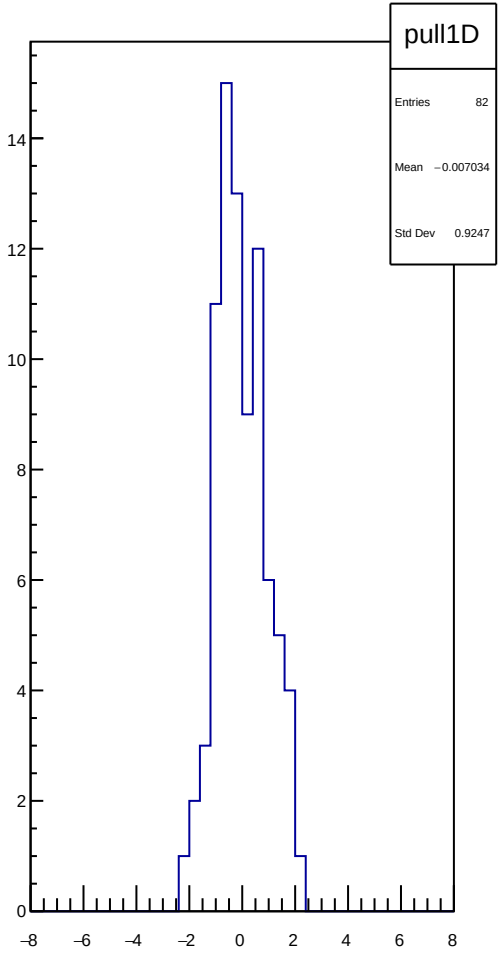

pull1D
Entries 82
Mean −0.007034
Std Dev 0.9247

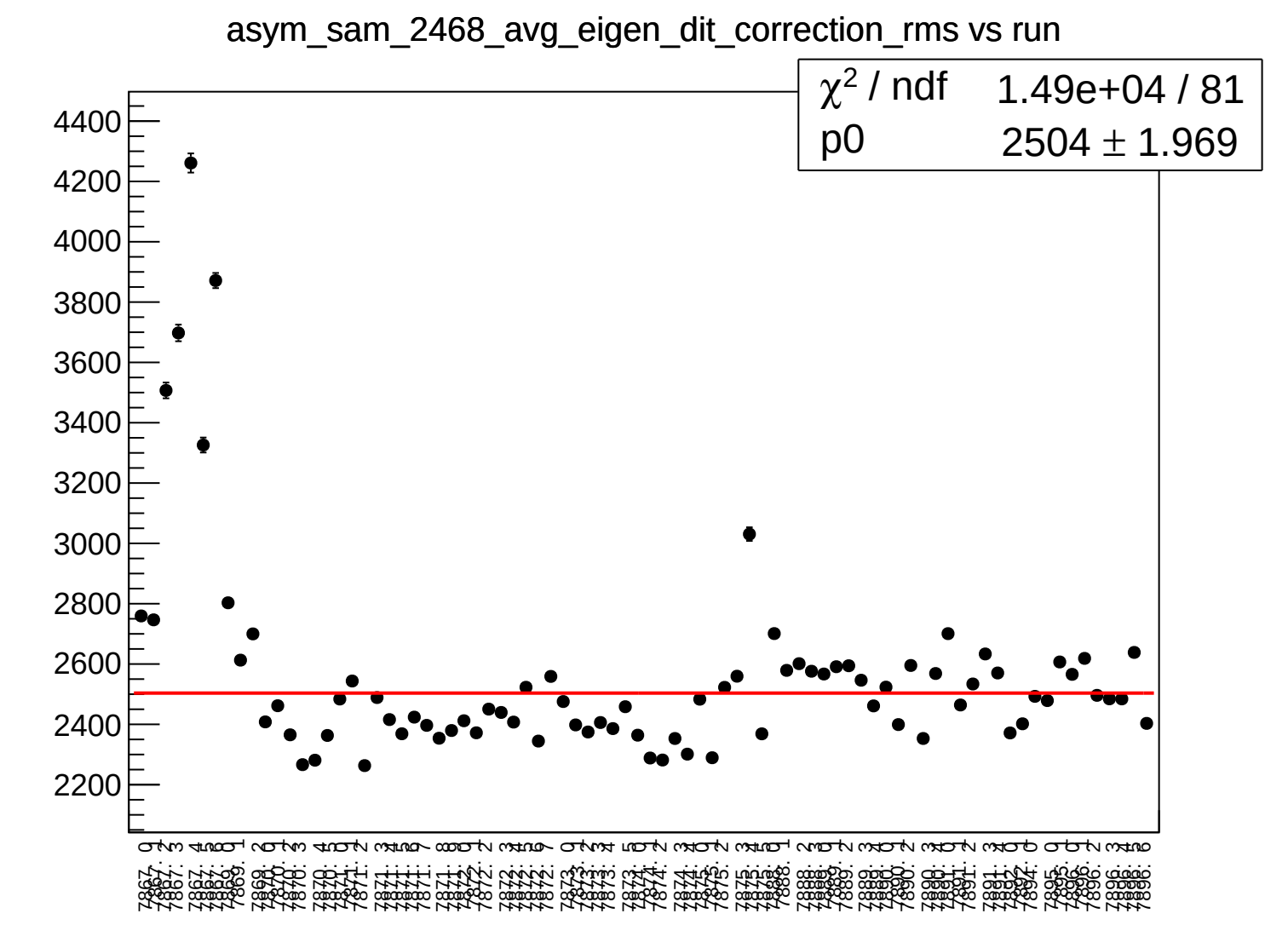

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.49e+04 / 81
p0 2504 ± 1.969
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

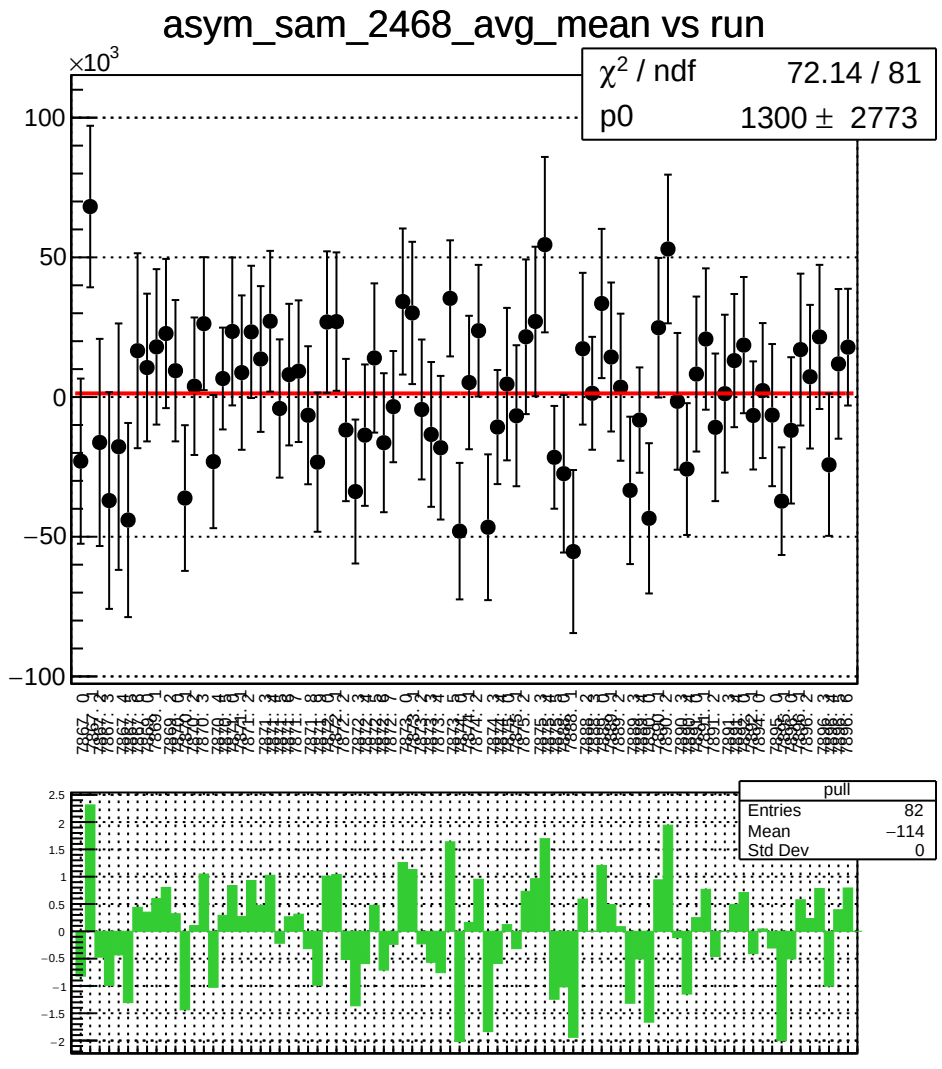

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 80.98 / 81
p0 597.9 ± 270.9
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −90.69
Std Dev 45.64
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.004706
Std Dev 0.9938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

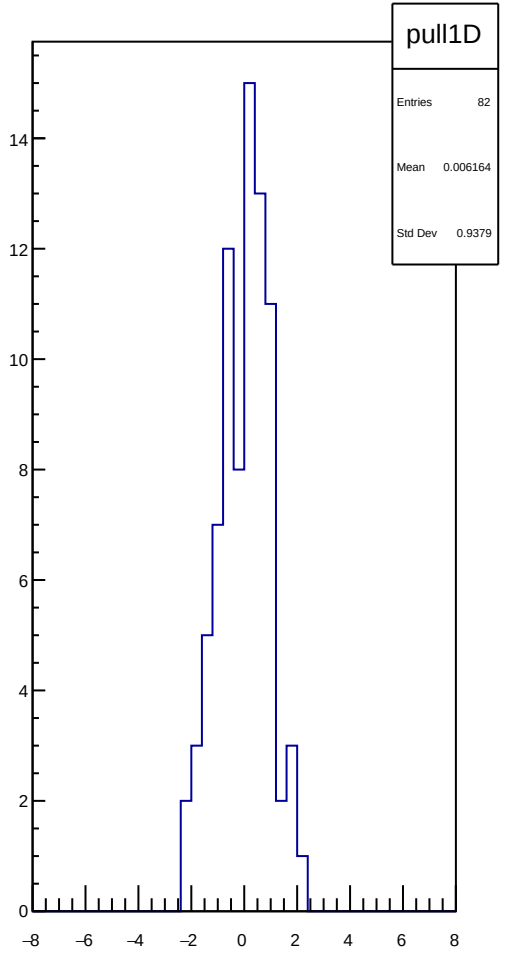

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 5.51e+04 / 81
p0 240.6 ± 0.1916
550
500
450
400
350
300
250
200

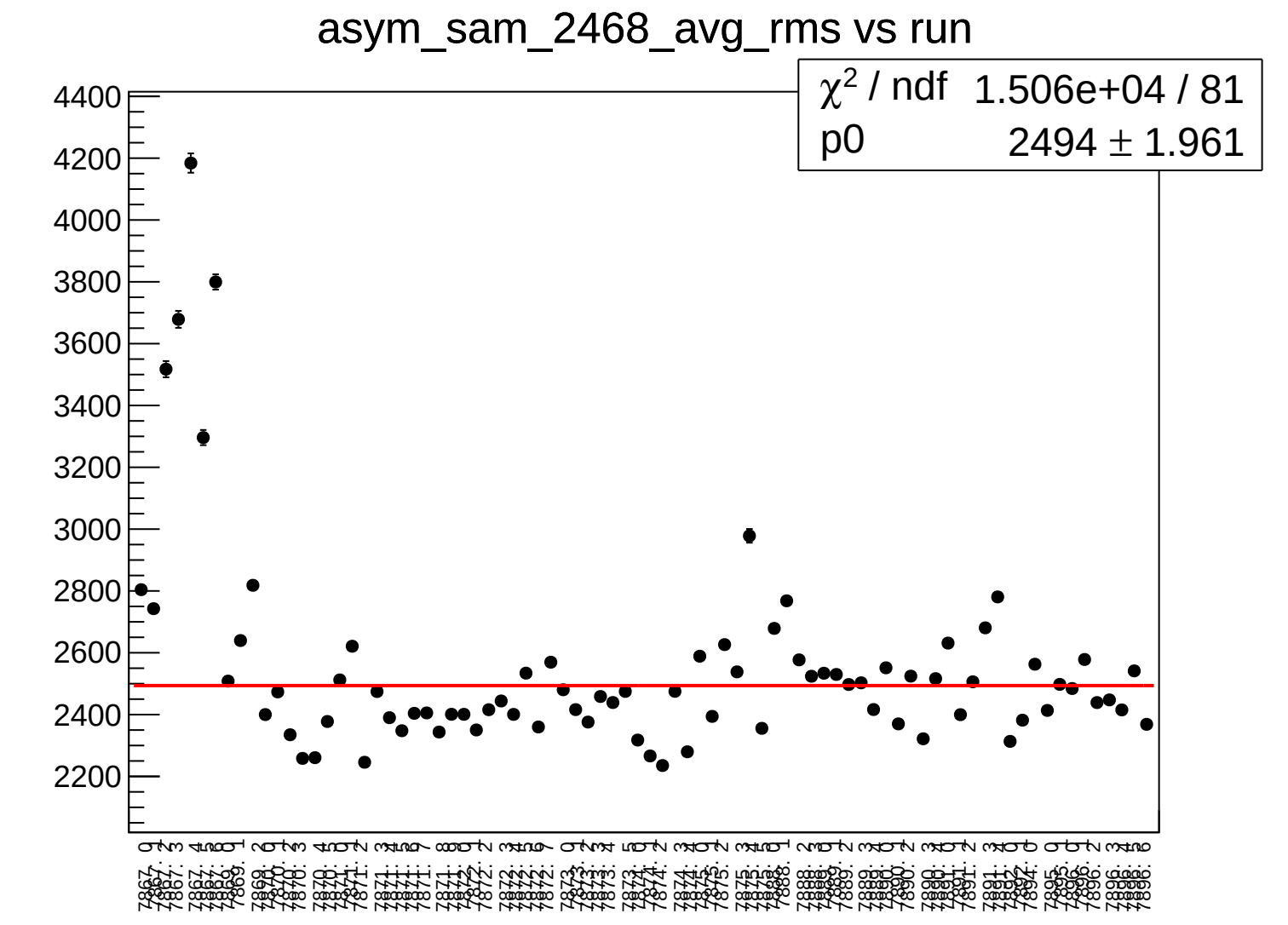

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.12 / 81
p0 −601.1± 2784
pull
Entries 82
Mean −82
Std Dev 0

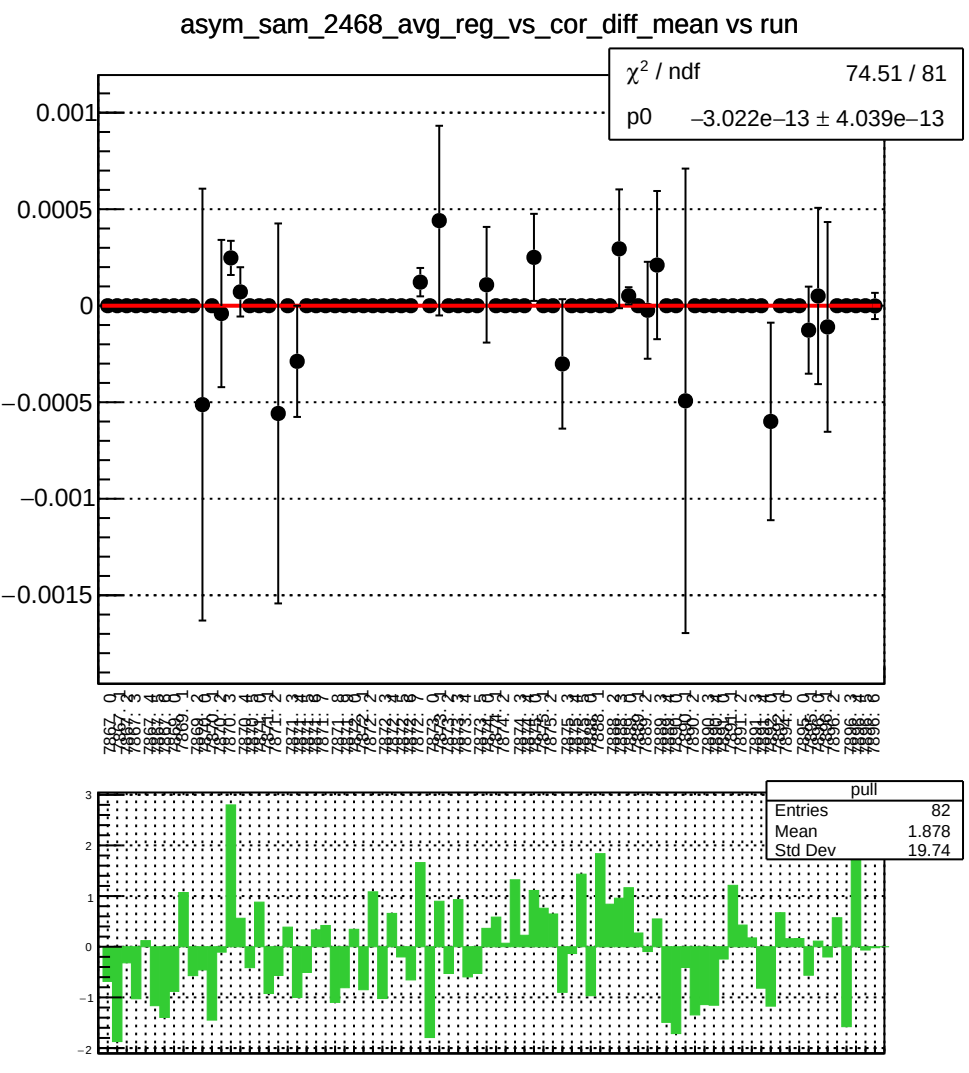

pull1D
Entries 82
Mean −0.007034
Std Dev 0.9247

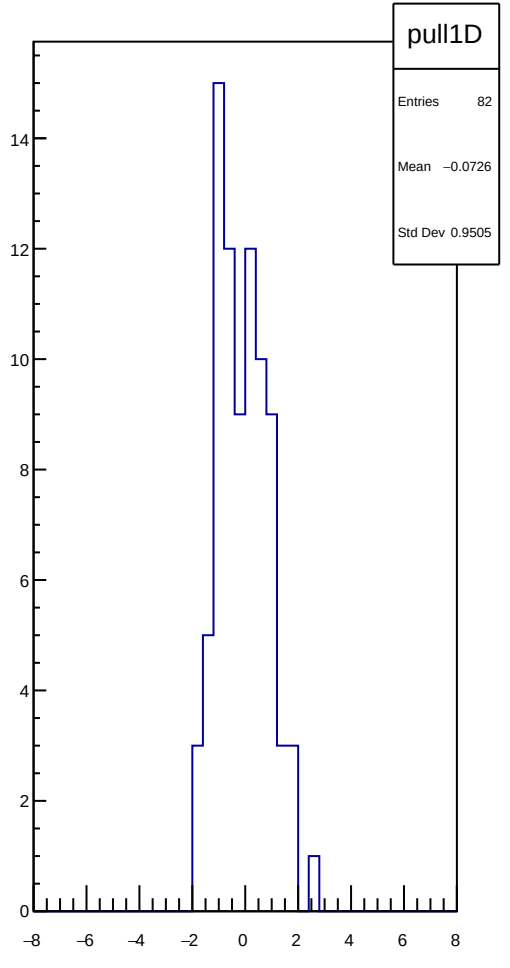

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.49e+04 / 81
p0 2504 ± 1.969
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

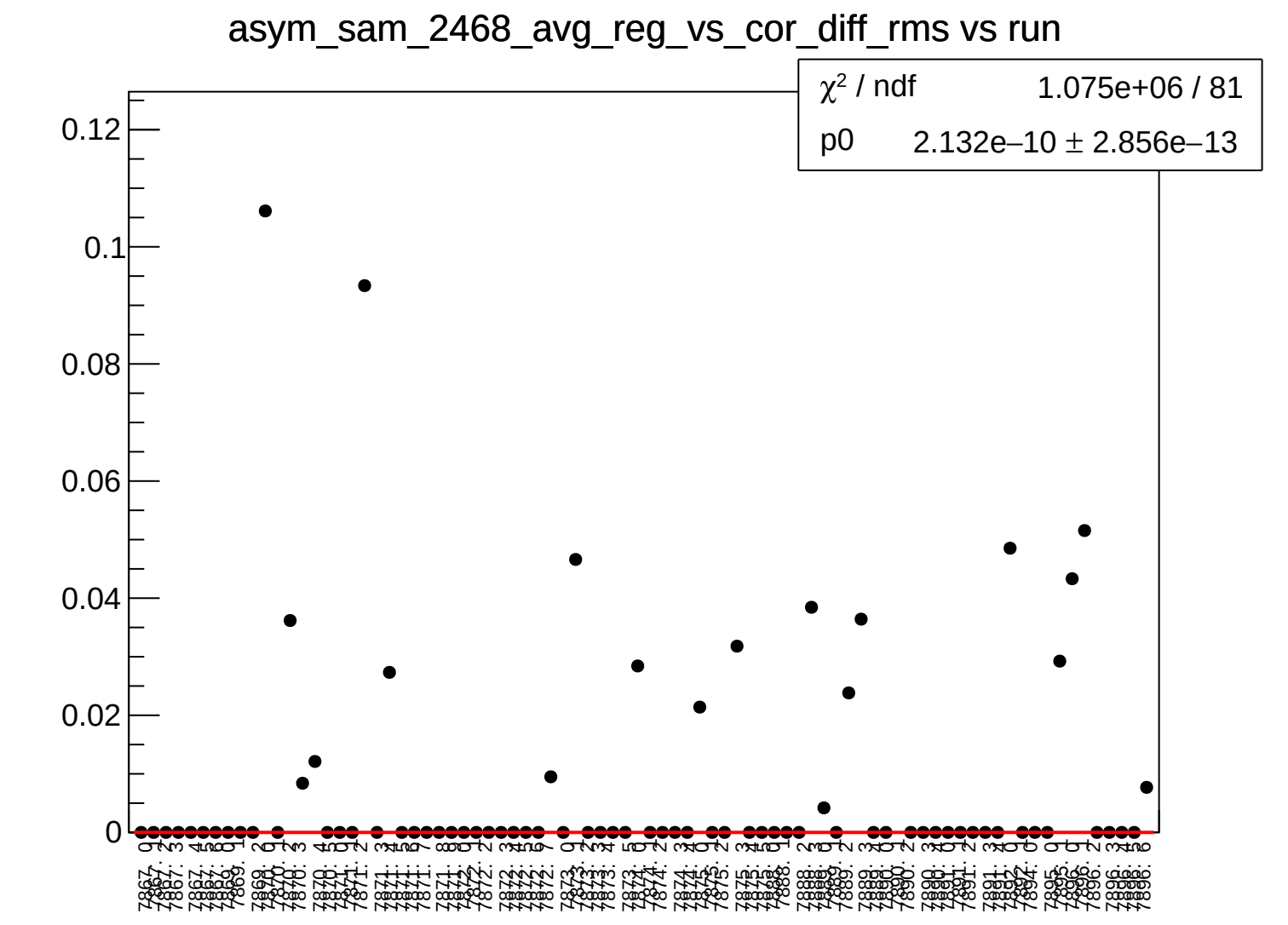

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 72.14 / 81
p0 1300 ± 2773
100
50
0
−50
−100
pull
Entries 82
Mean −114
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

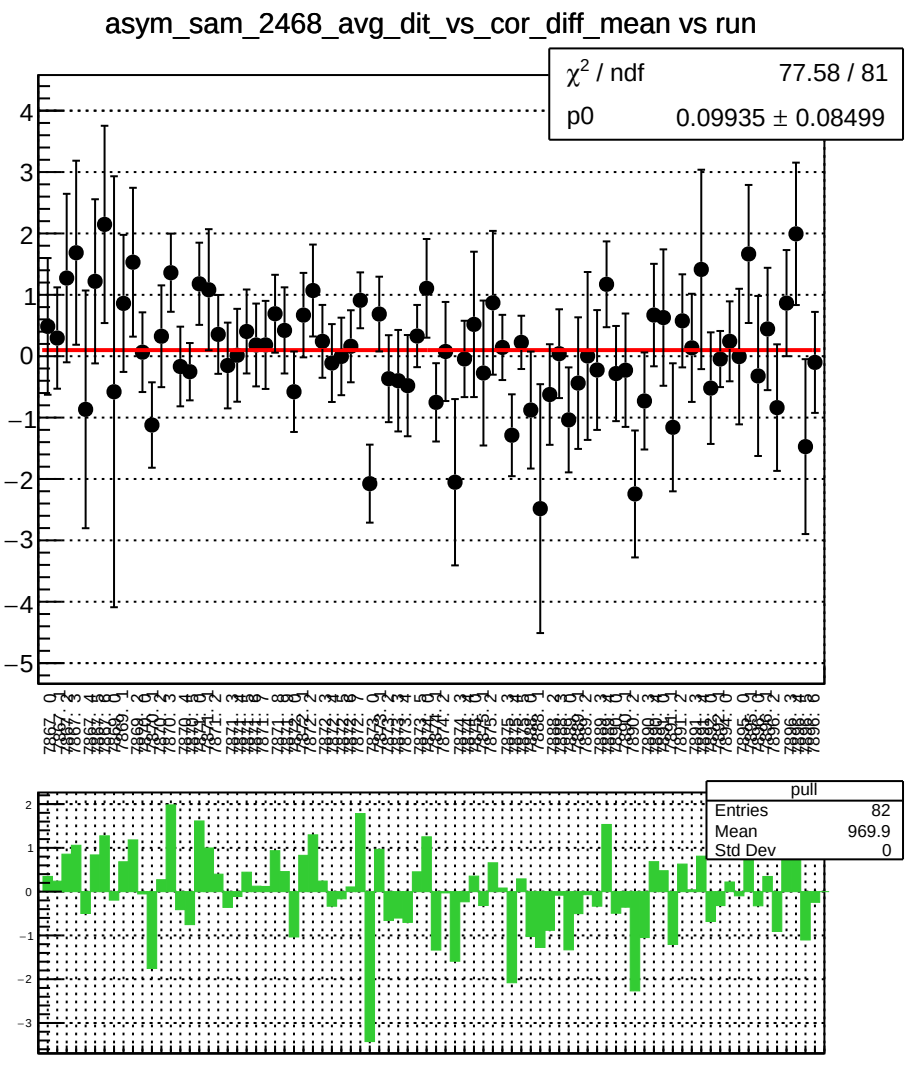

pull1D
Entries 82
Mean 0.006164
Std Dev 0.9379
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

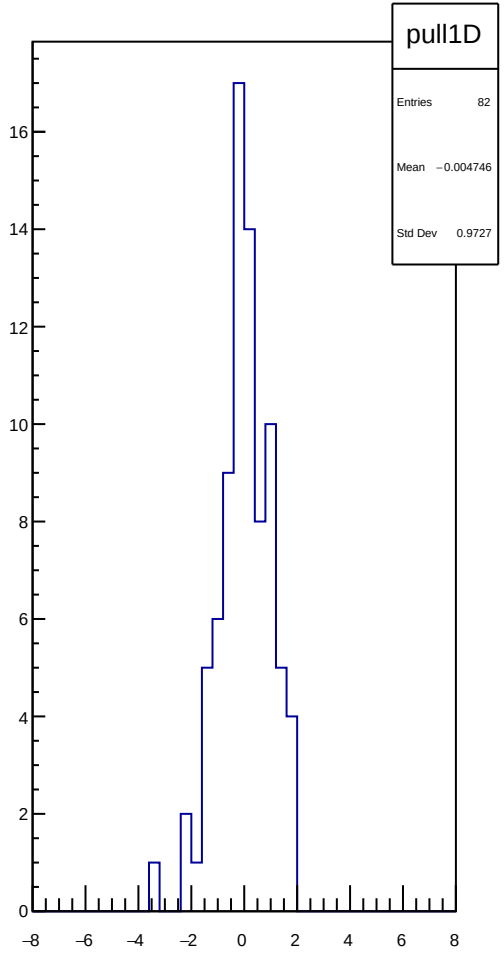

asym_sam_2468_avg_rms vs run
χ² / ndf 1.506e+04 / 81
p0 2494 ± 1.961
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

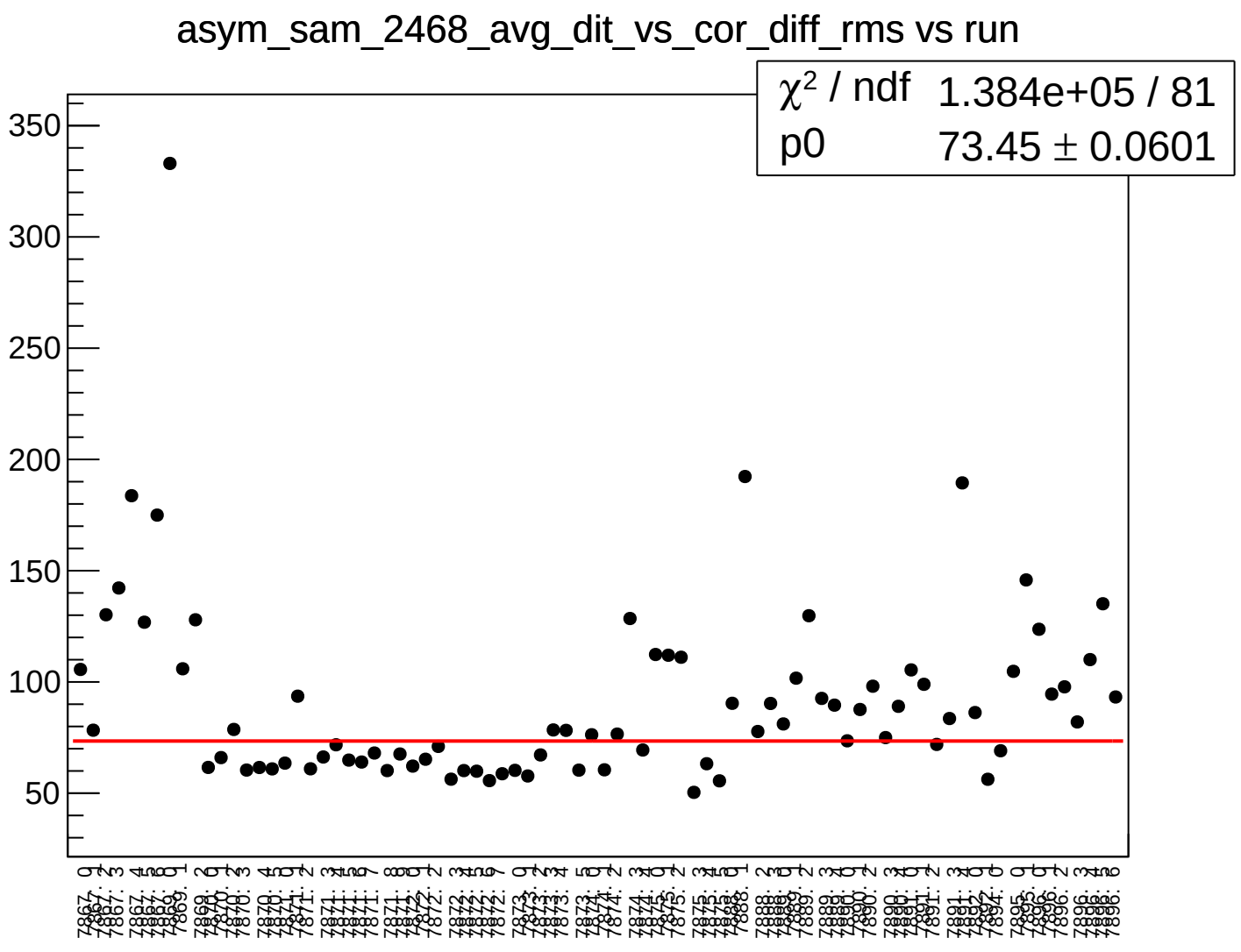

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 81
p0 −3.022e−13 ± 4.039e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 1.878
Std Dev 19.74
3
2
1
0
−1
−2

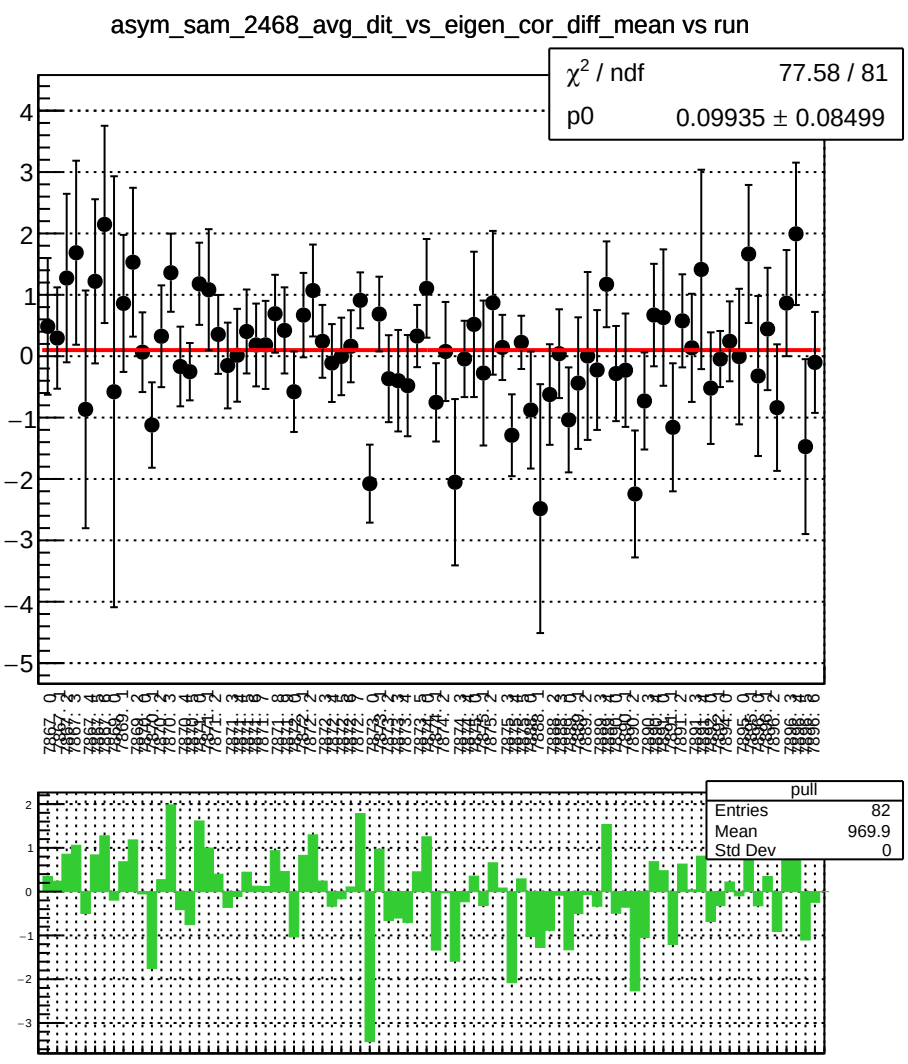

pull1D
Entries 82
Mean −0.0726
Std Dev 0.9505
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

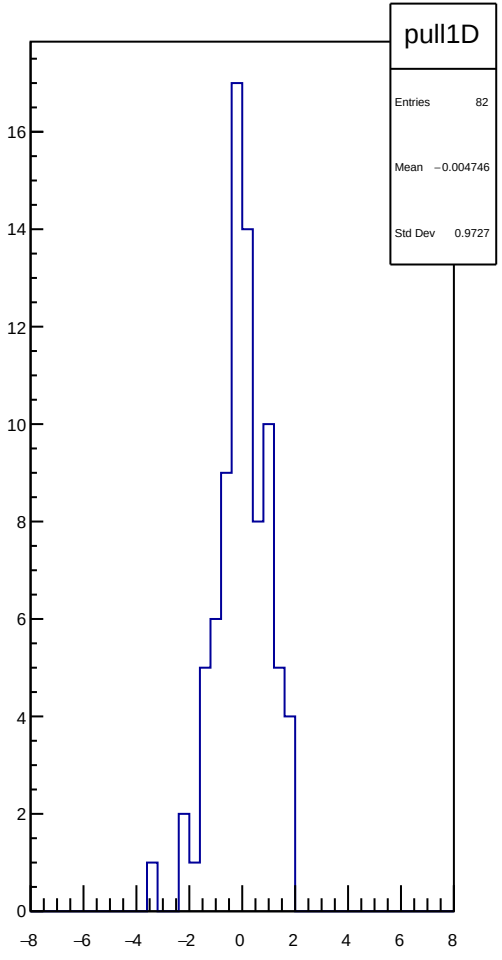

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.075e+06 / 81
p0 2.132e−10 ± 2.856e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

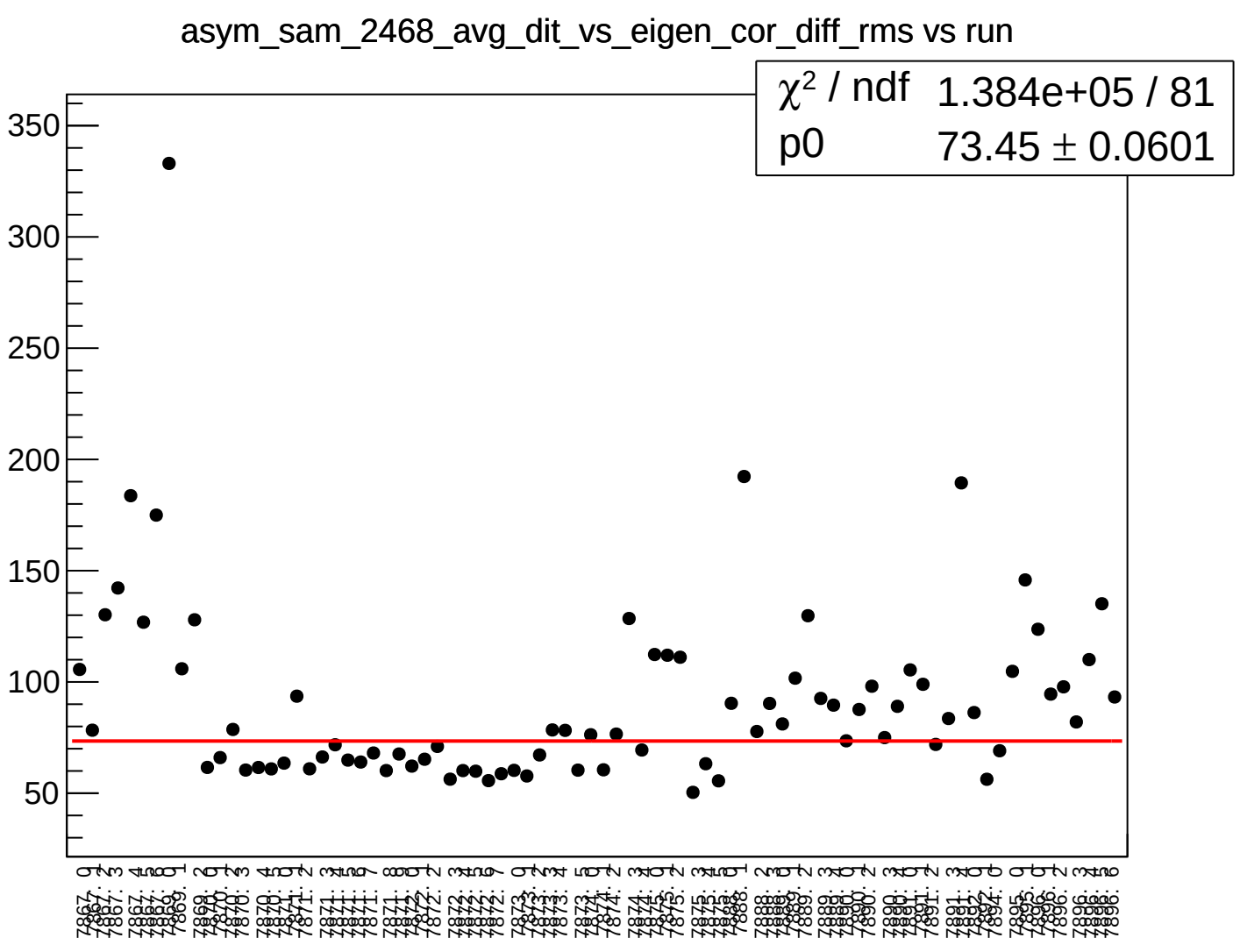

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.58 / 81
p0 0.09935 ± 0.08499
pull
Entries 82
Mean 969.9
Std Dev 0

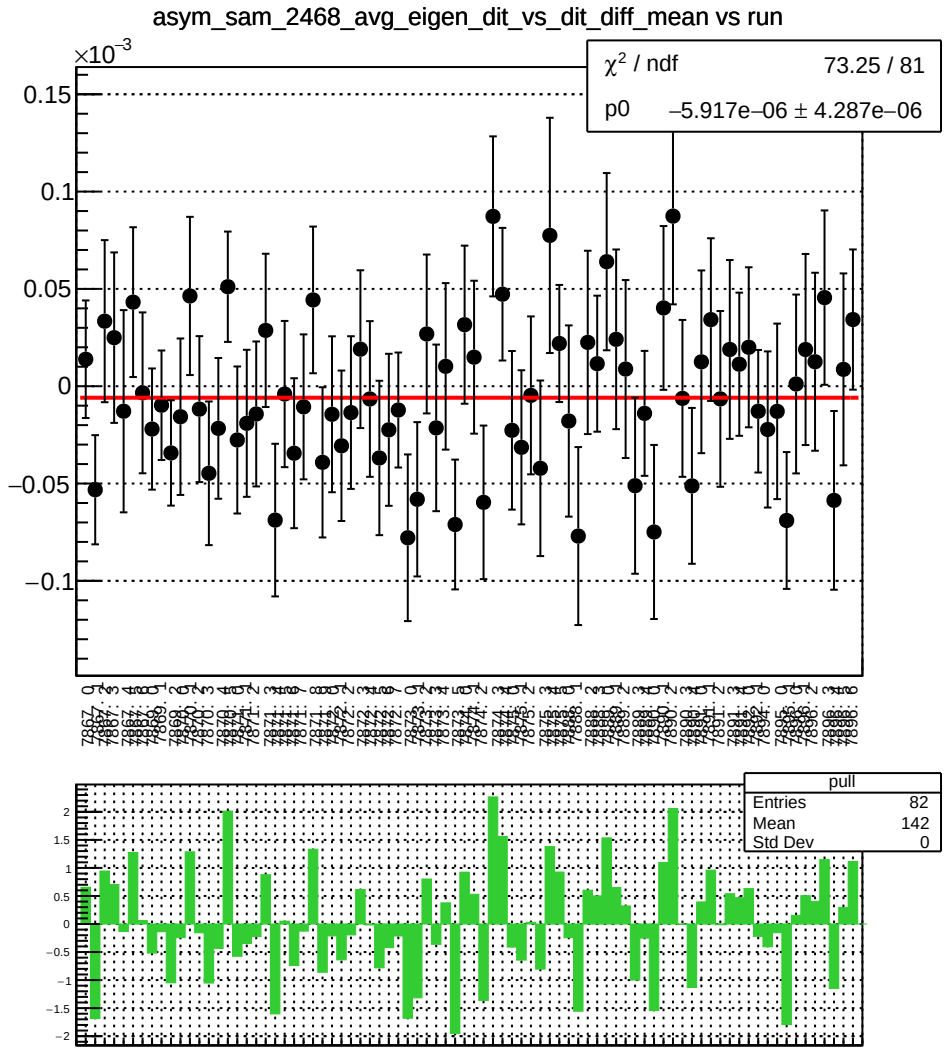

pull1D
Entries 82
Mean −0.004746
Std Dev 0.9727

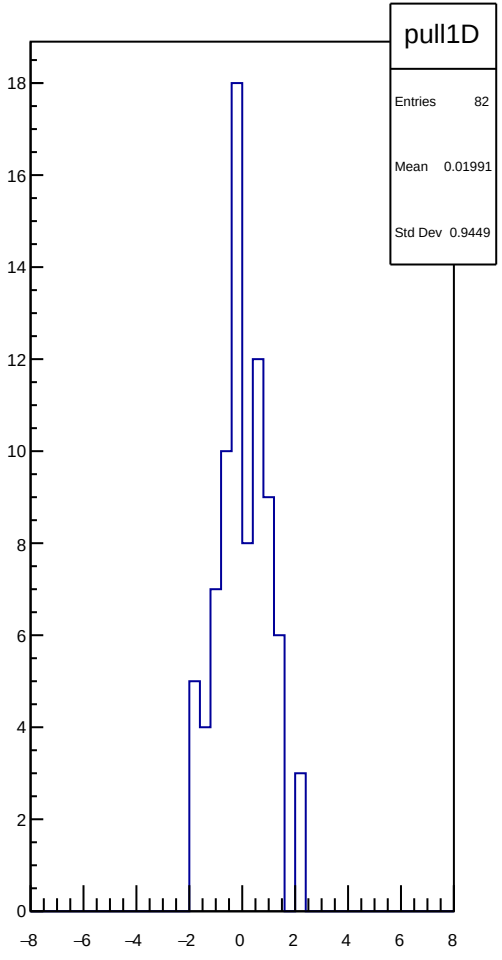

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.384e+05 / 81
p0 73.45 ± 0.0601
350
300
250
200
150
100
50

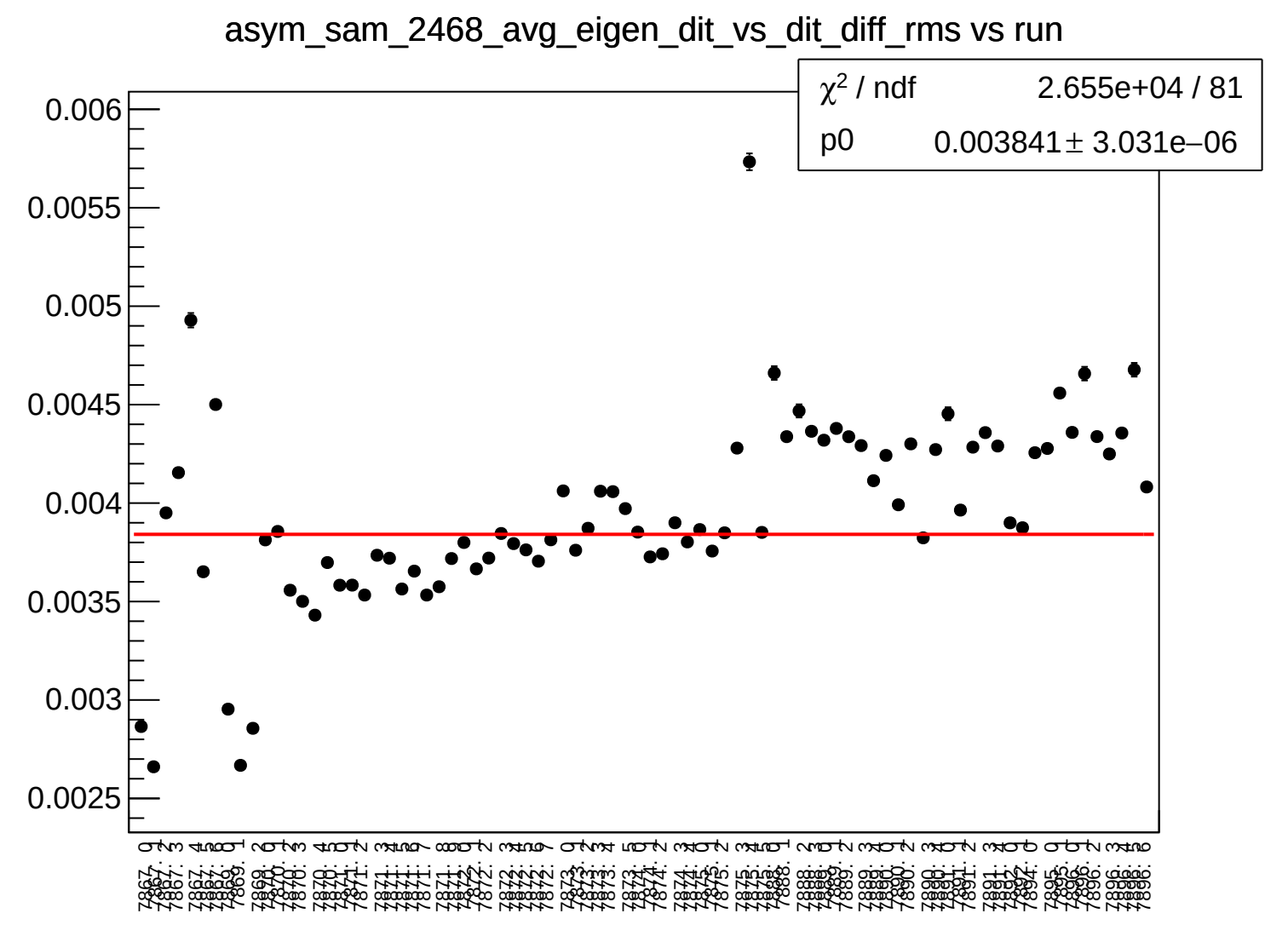

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.58 / 81
p0 0.09935 ± 0.08499
pull
Entries 82
Mean 969.9
Std Dev 0

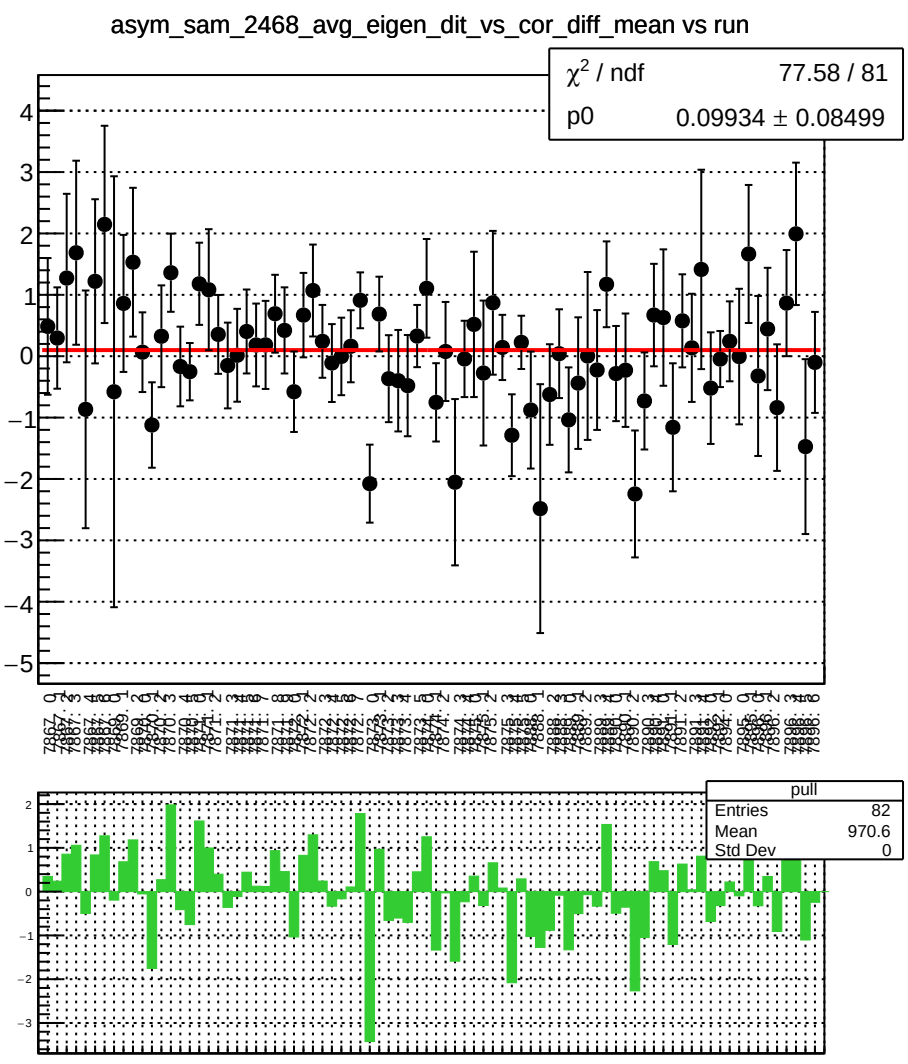

pull1D
Entries 82
Mean −0.004746
Std Dev 0.9727

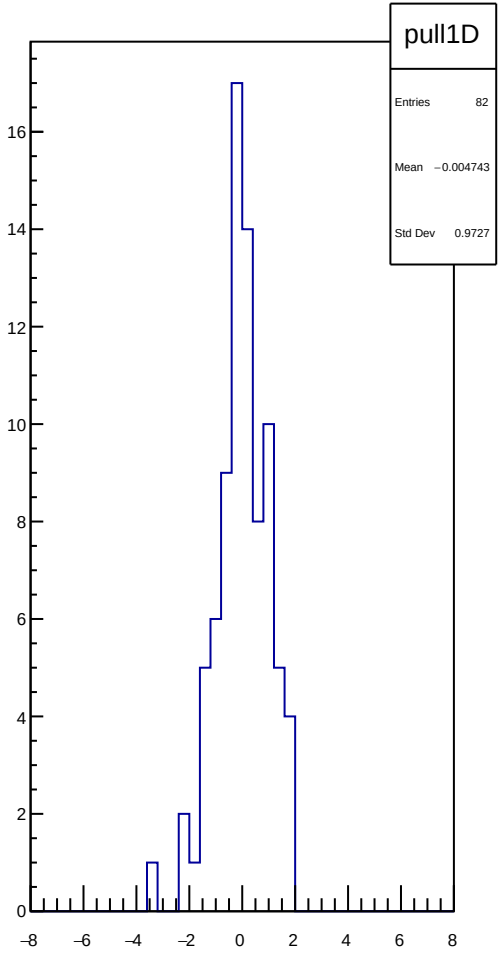

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.384e+05 / 81
p0 73.45 ± 0.0601
350
300
250
200
150
100
50

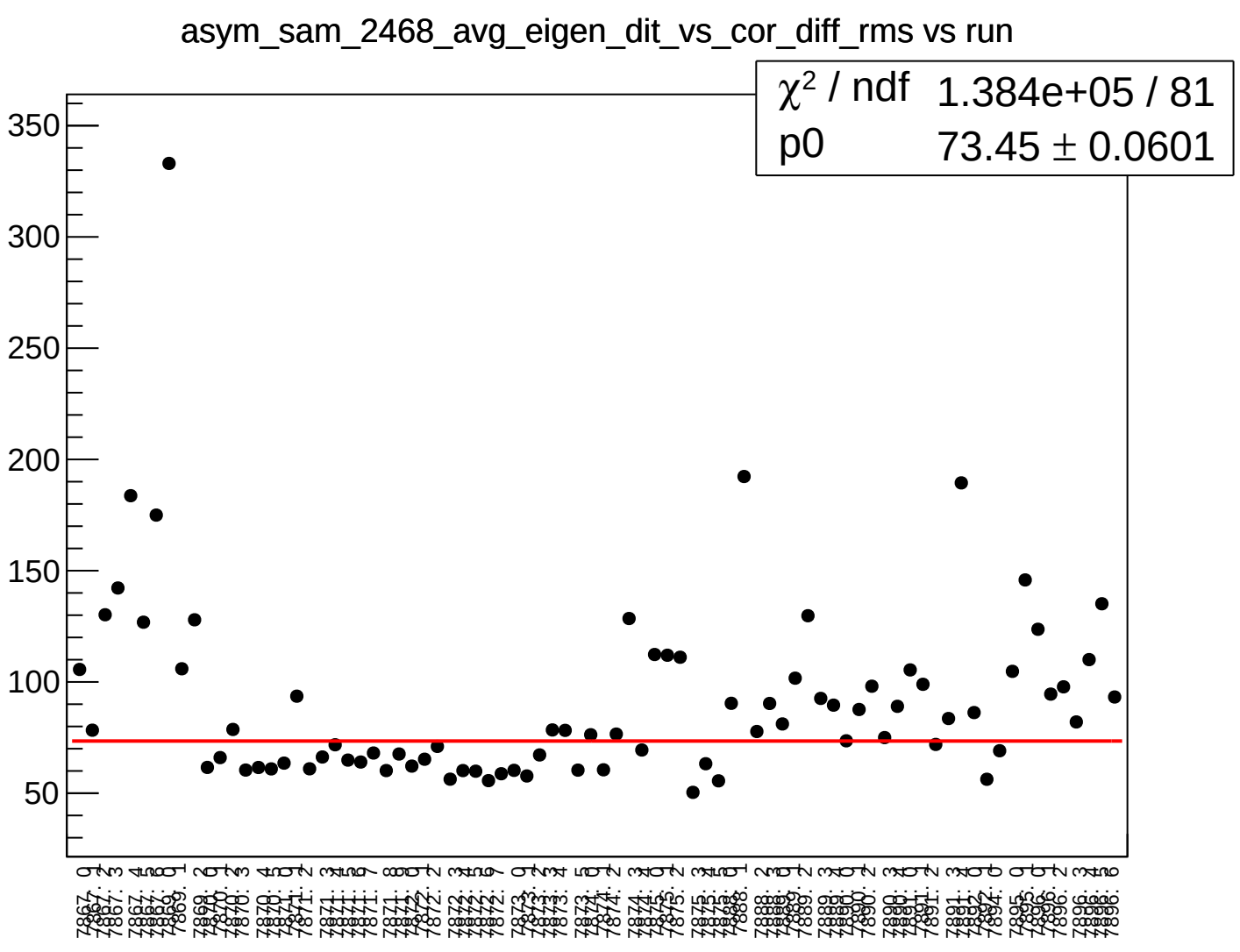

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.25 / 81
p0 −5.917e−06 ± 4.287e−06
pull
Entries 82
Mean 142
Std Dev 0

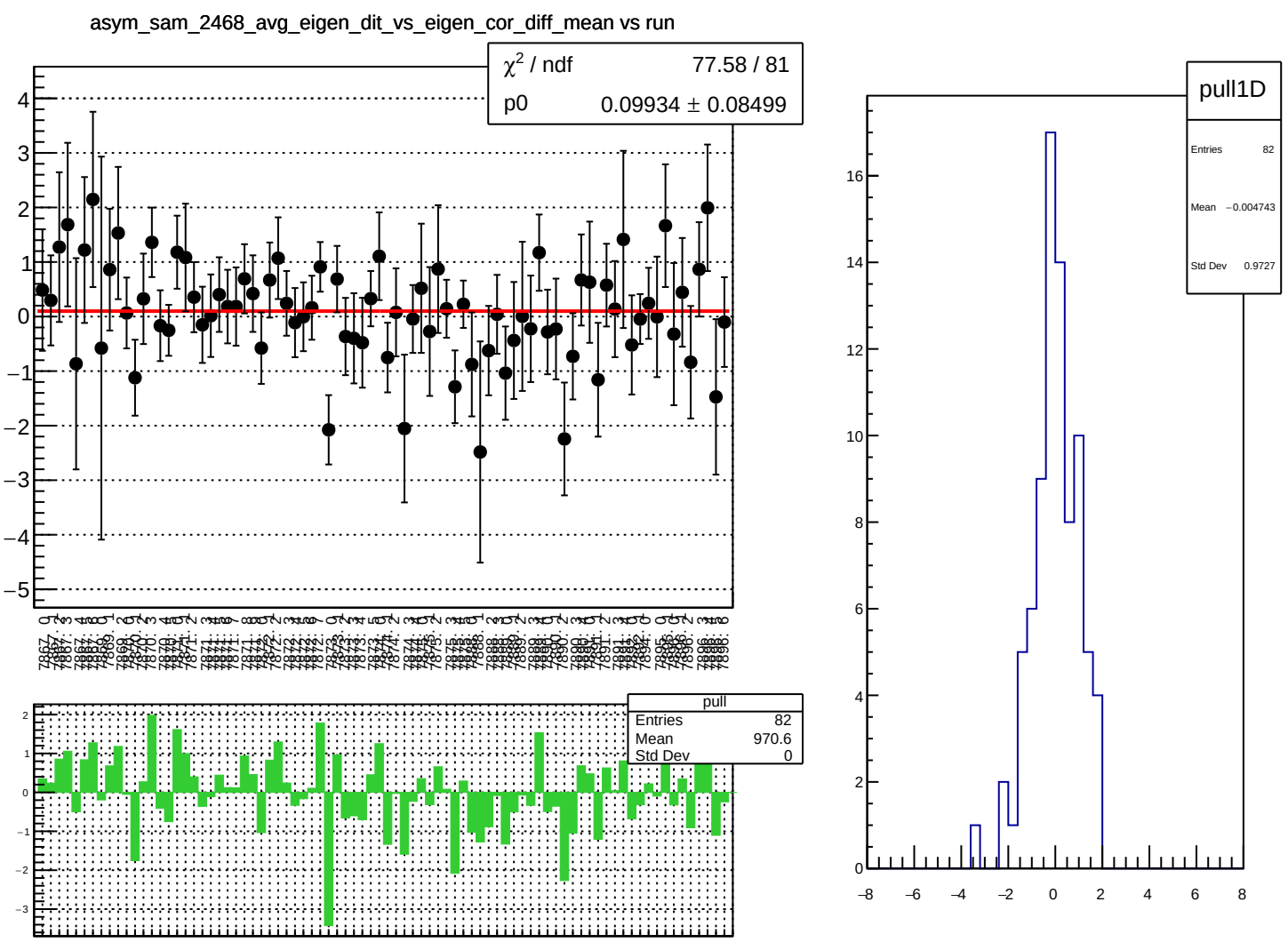

pull1D
Entries 82
Mean 0.01991
Std Dev 0.9449

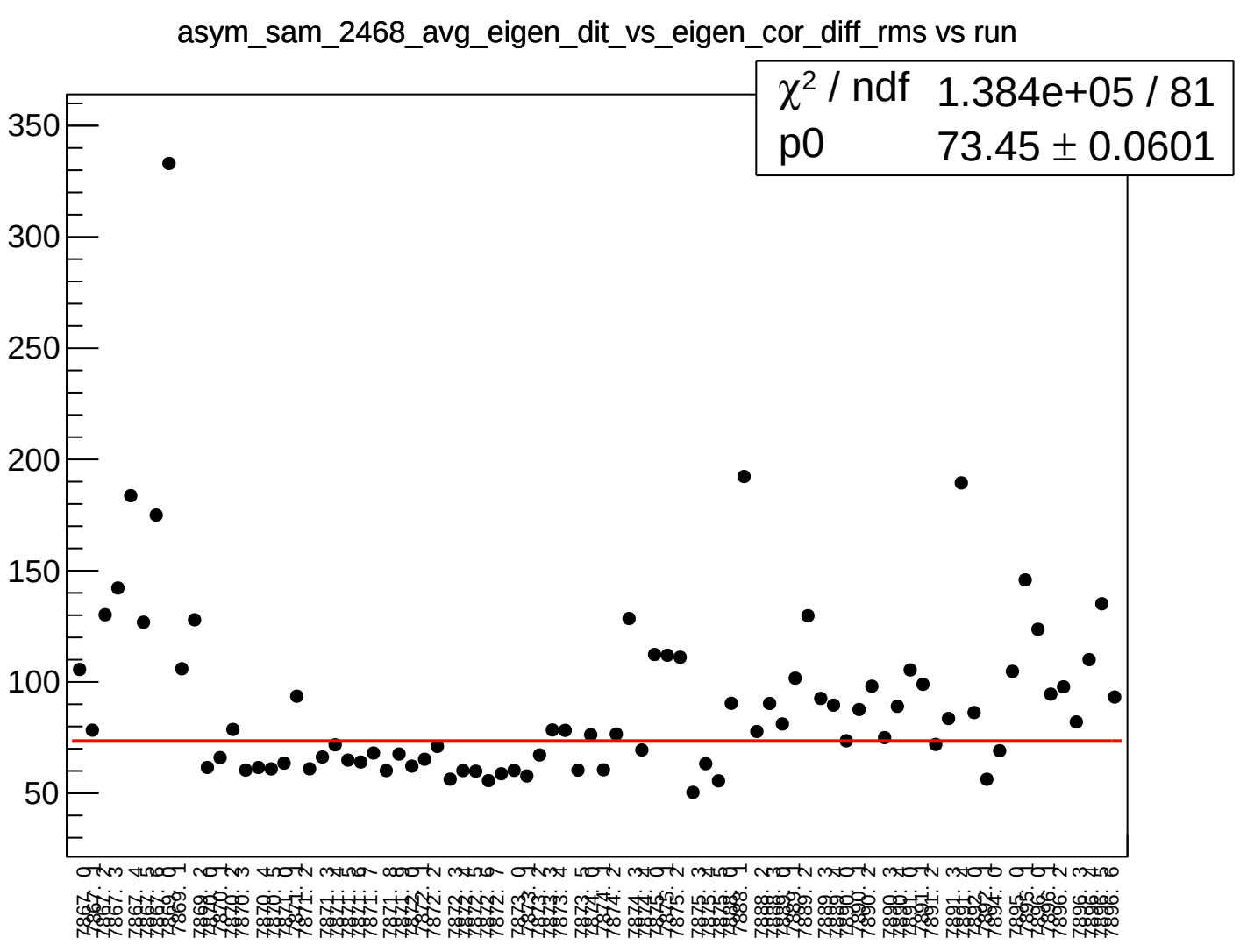

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.655e+04 / 81
p0 0.003841 ± 3.031e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

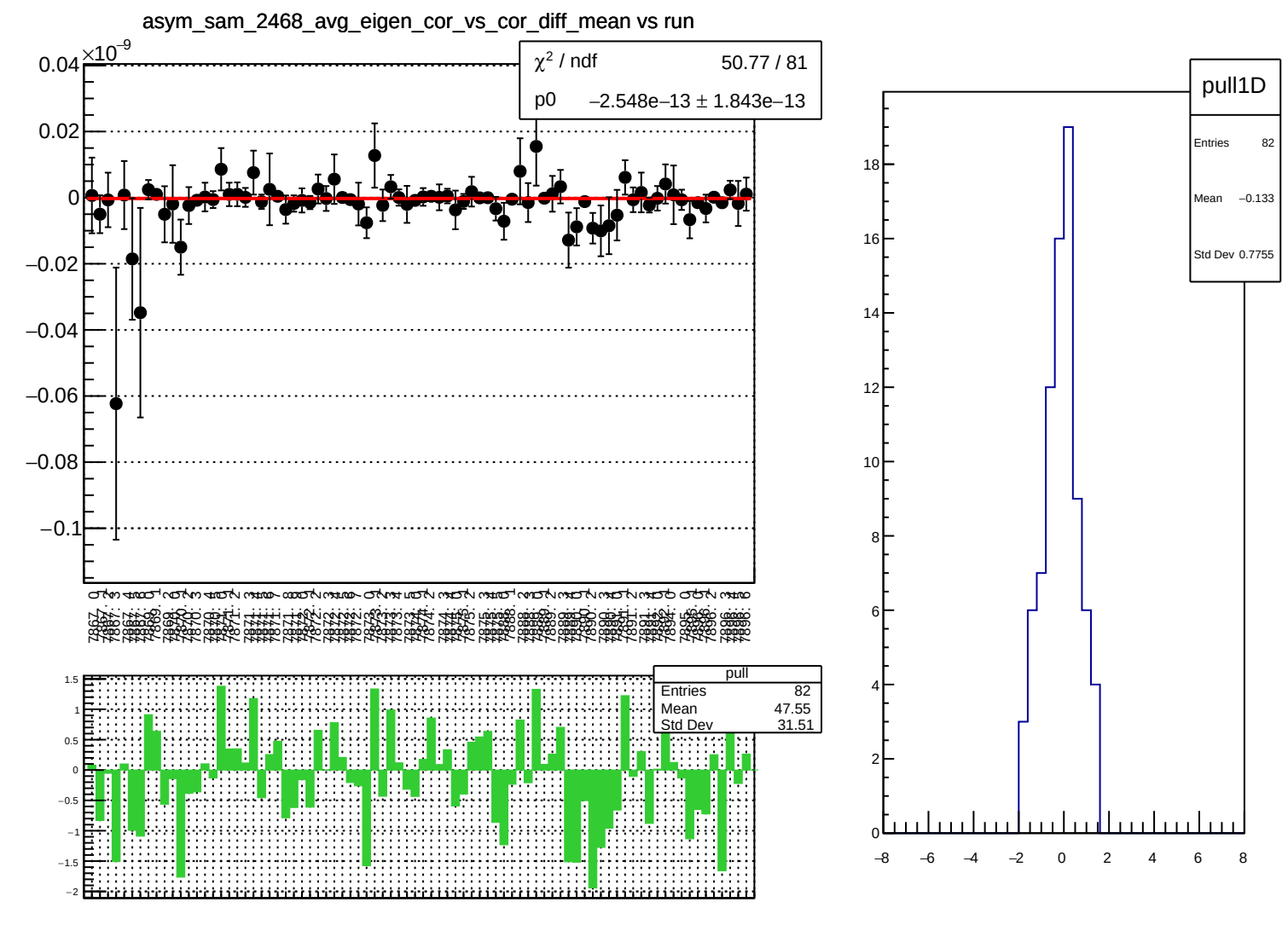

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.58 / 81
p0 0.09934 ± 0.08499
pull
Entries 82
Mean 970.6
Std Dev 0

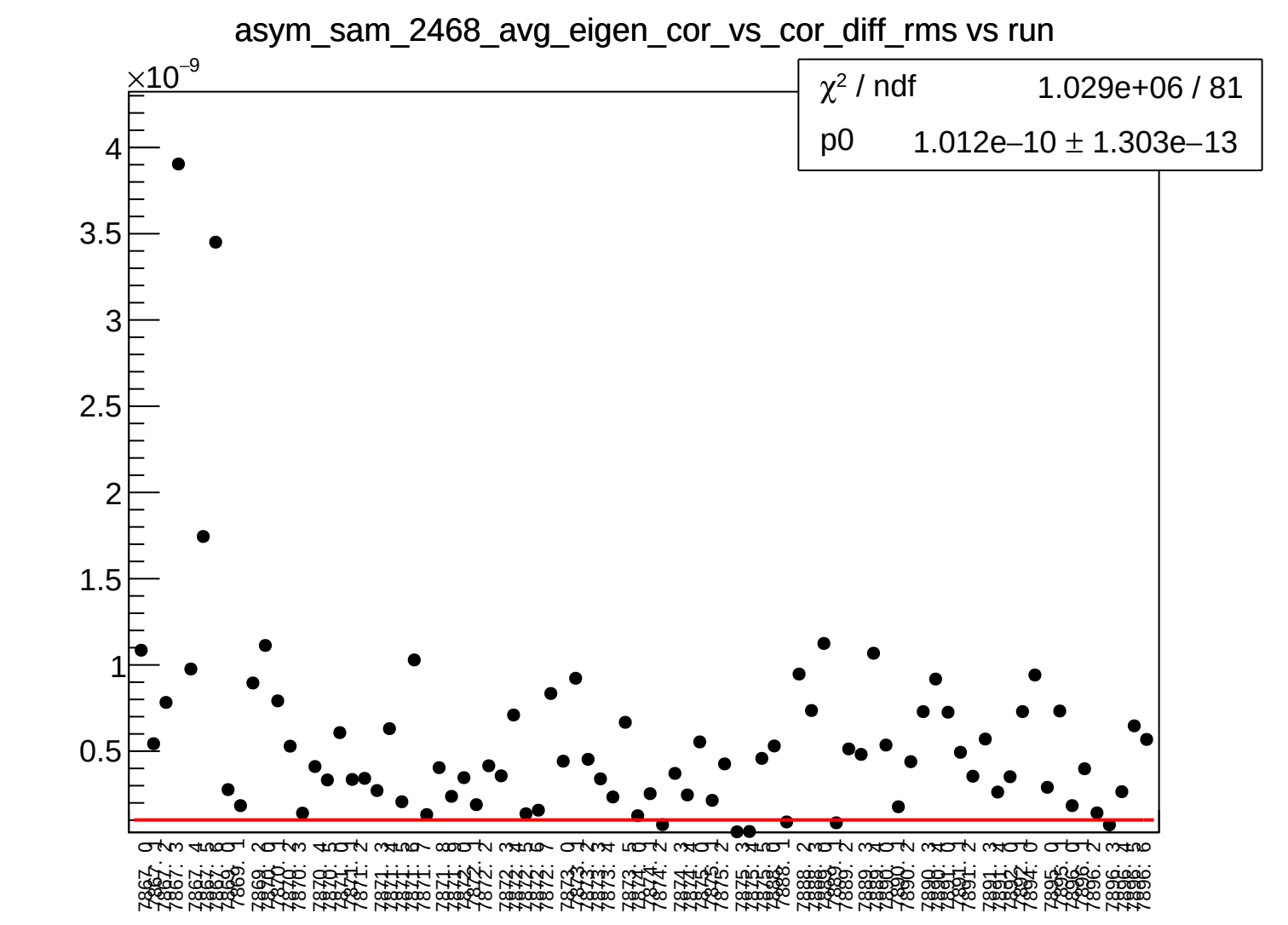

pull1D
Entries 82
Mean −0.004743
Std Dev 0.9727

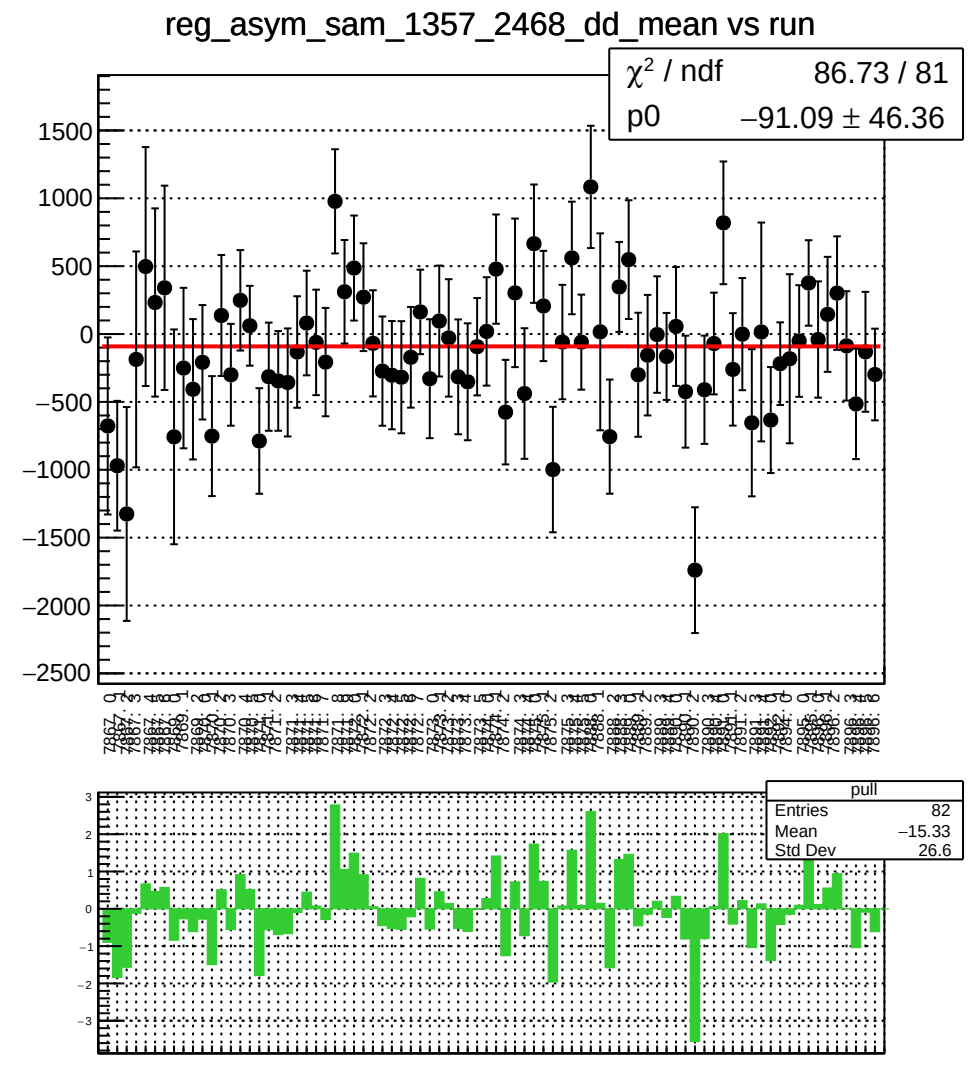

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.384e+05 / 81
p0 73.45 ± 0.0601
350
300
250
200
150
100
50

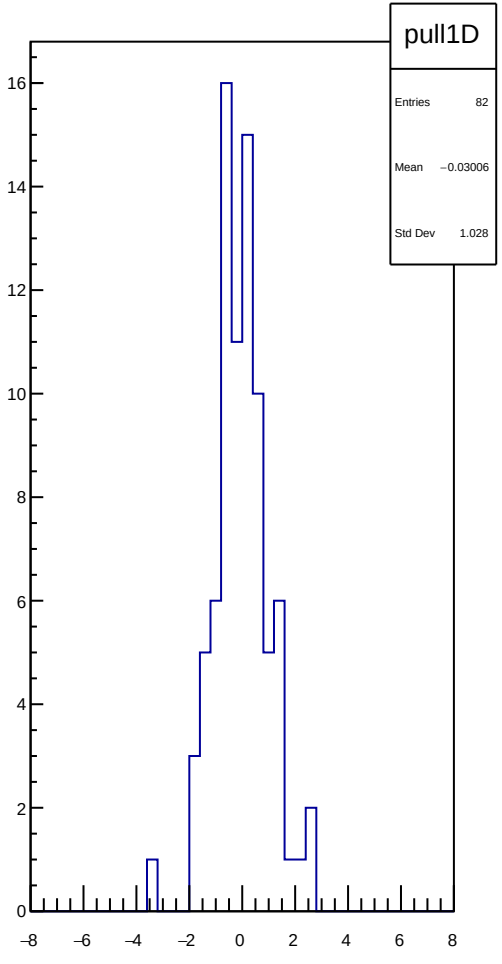

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.58 / 81
p0 0.09934 ± 0.08499
pull
Entries 82
Mean 970.6
Std Dev 0
pull1D
Entries 82
Mean −0.004743
Std Dev 0.9727

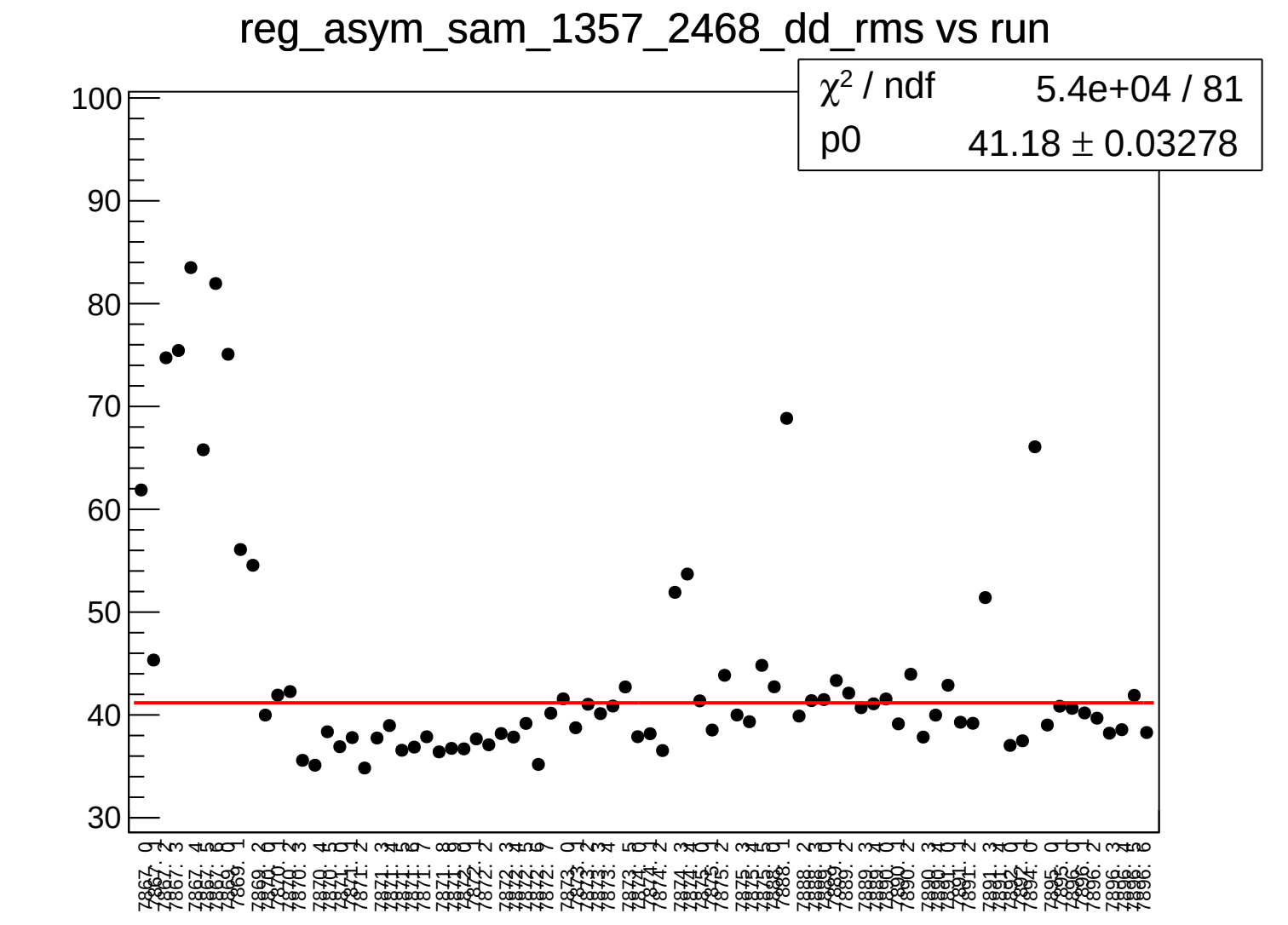

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.384e+05 / 81
p0 73.45 ± 0.0601
350
300
250
200
150
100
50

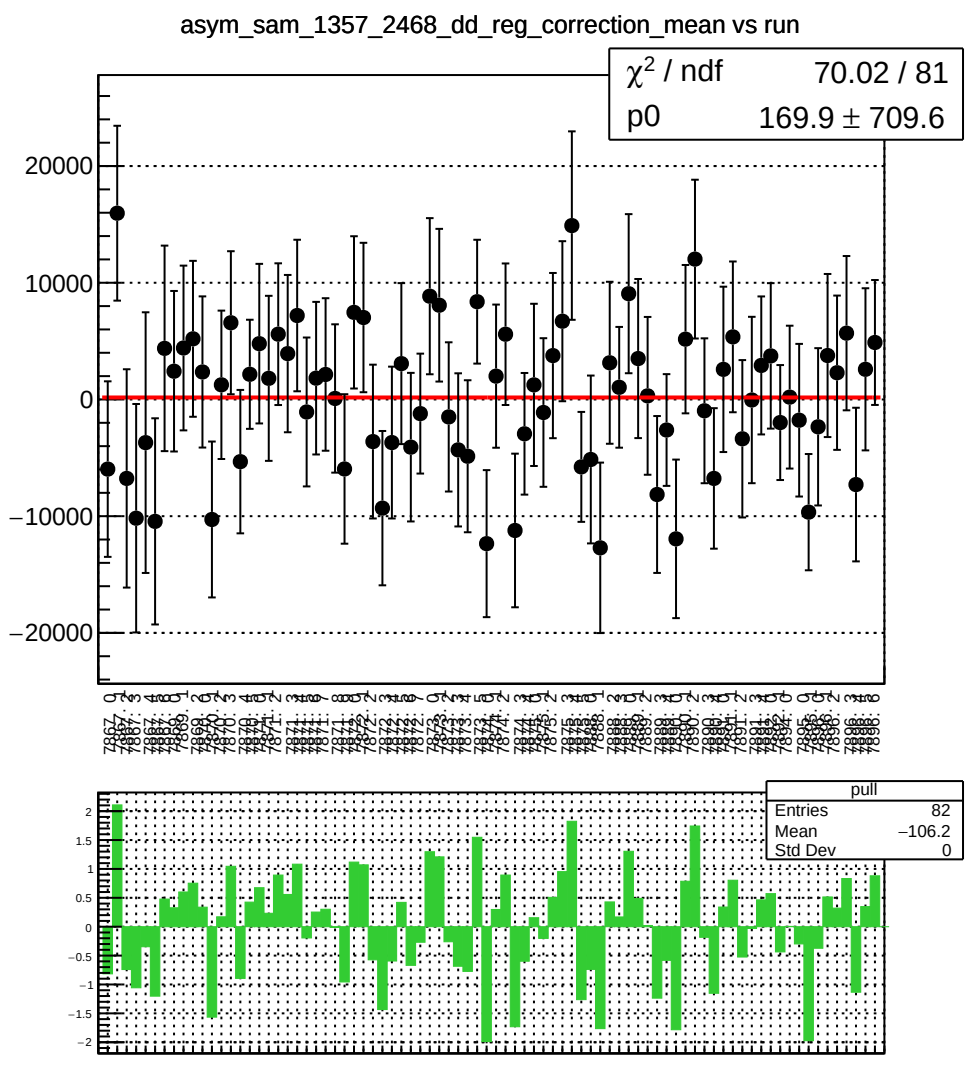

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 50.77 / 81
p0 −2.548e−13 ± 1.843e−13
pull
Entries 82
Mean 47.55
Std Dev 31.51
pull1D
Entries 82
Mean −0.133
Std Dev 0.7755

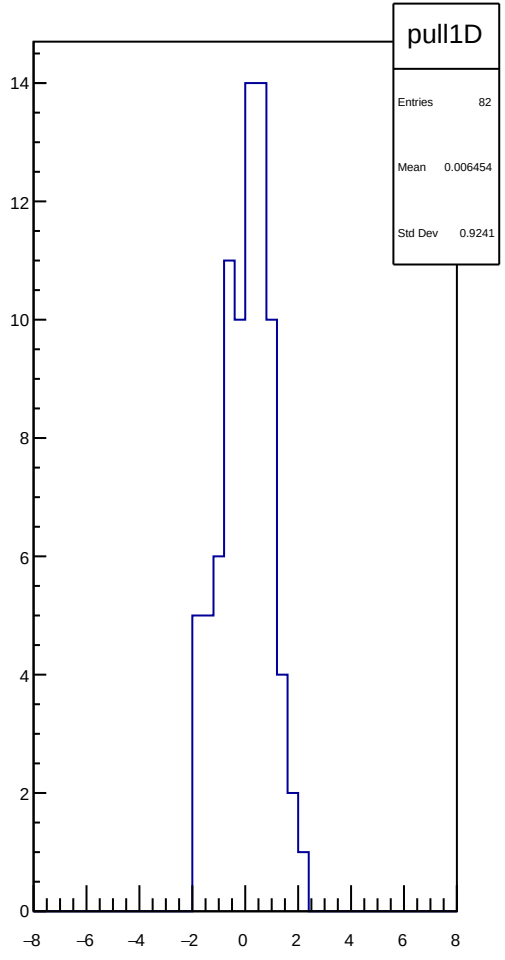

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.029e+06 / 81
p0 1.012e−10 ± 1.303e−13
4
3.5
3
2.5
2
1.5
1
0.5

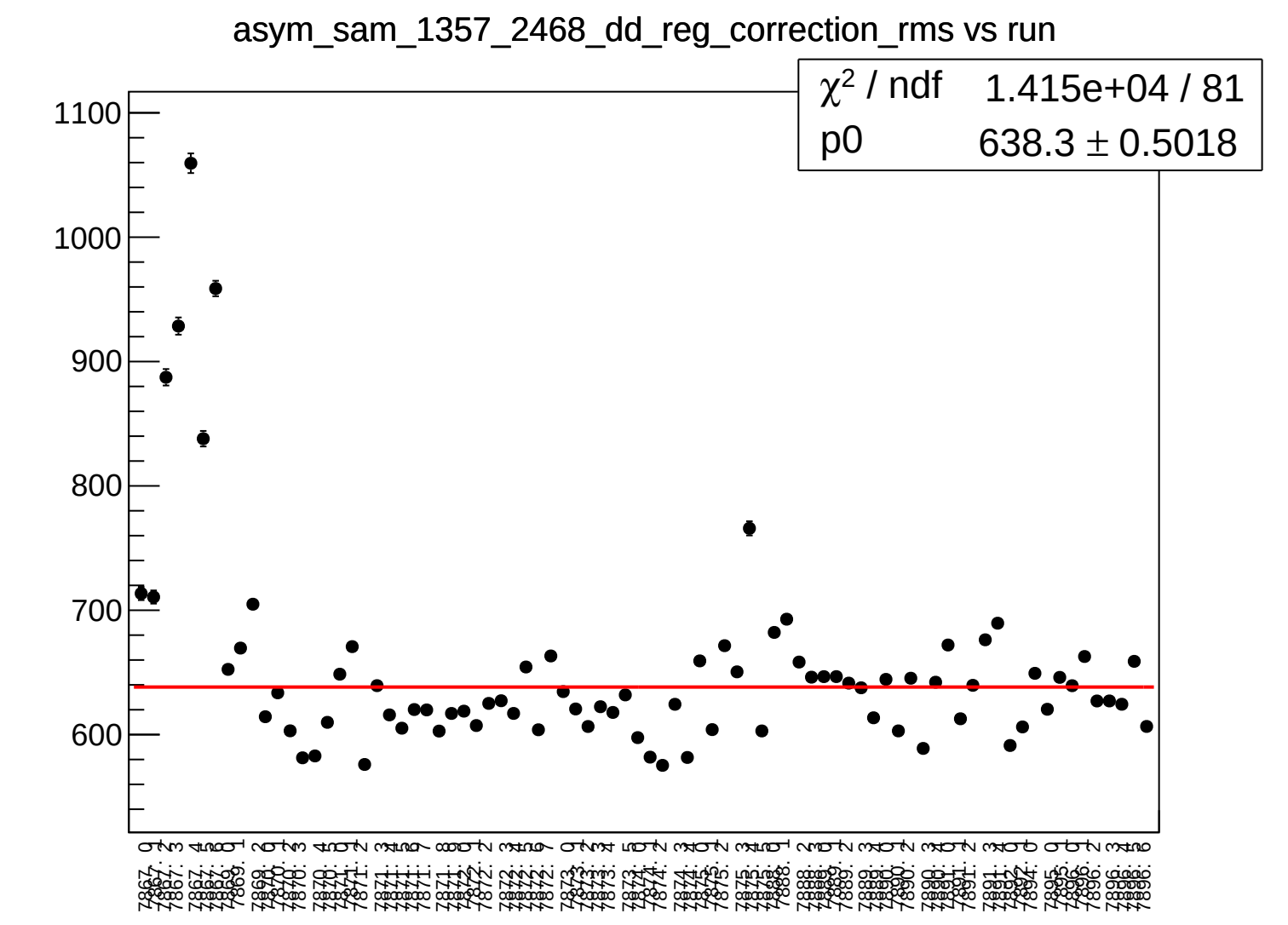

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.73 / 81
p0 −91.09 ± 46.36
pull
Entries 82
Mean −15.33
Std Dev 26.6

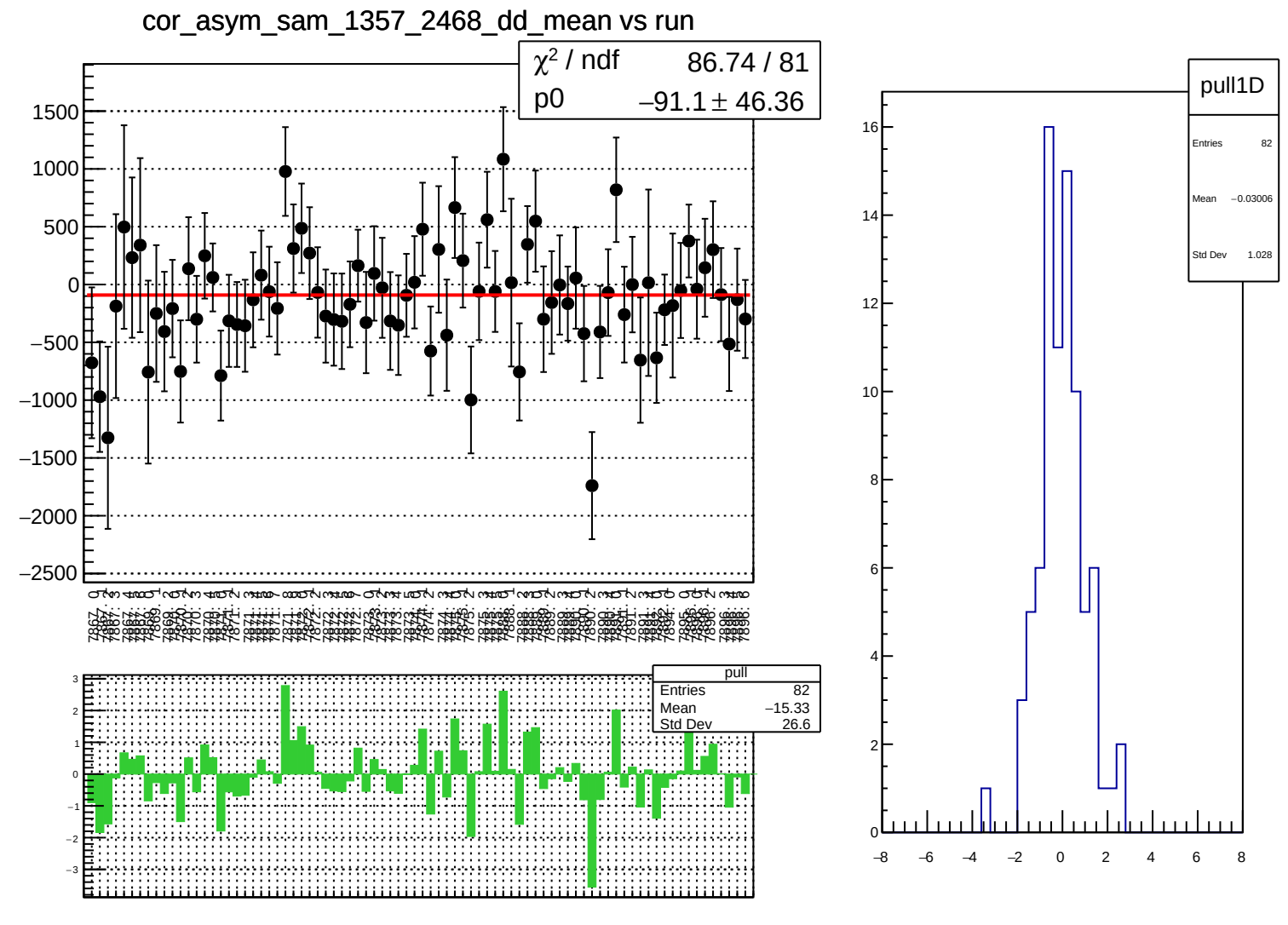

pull1D
Entries 82
Mean −0.03006
Std Dev 1.028

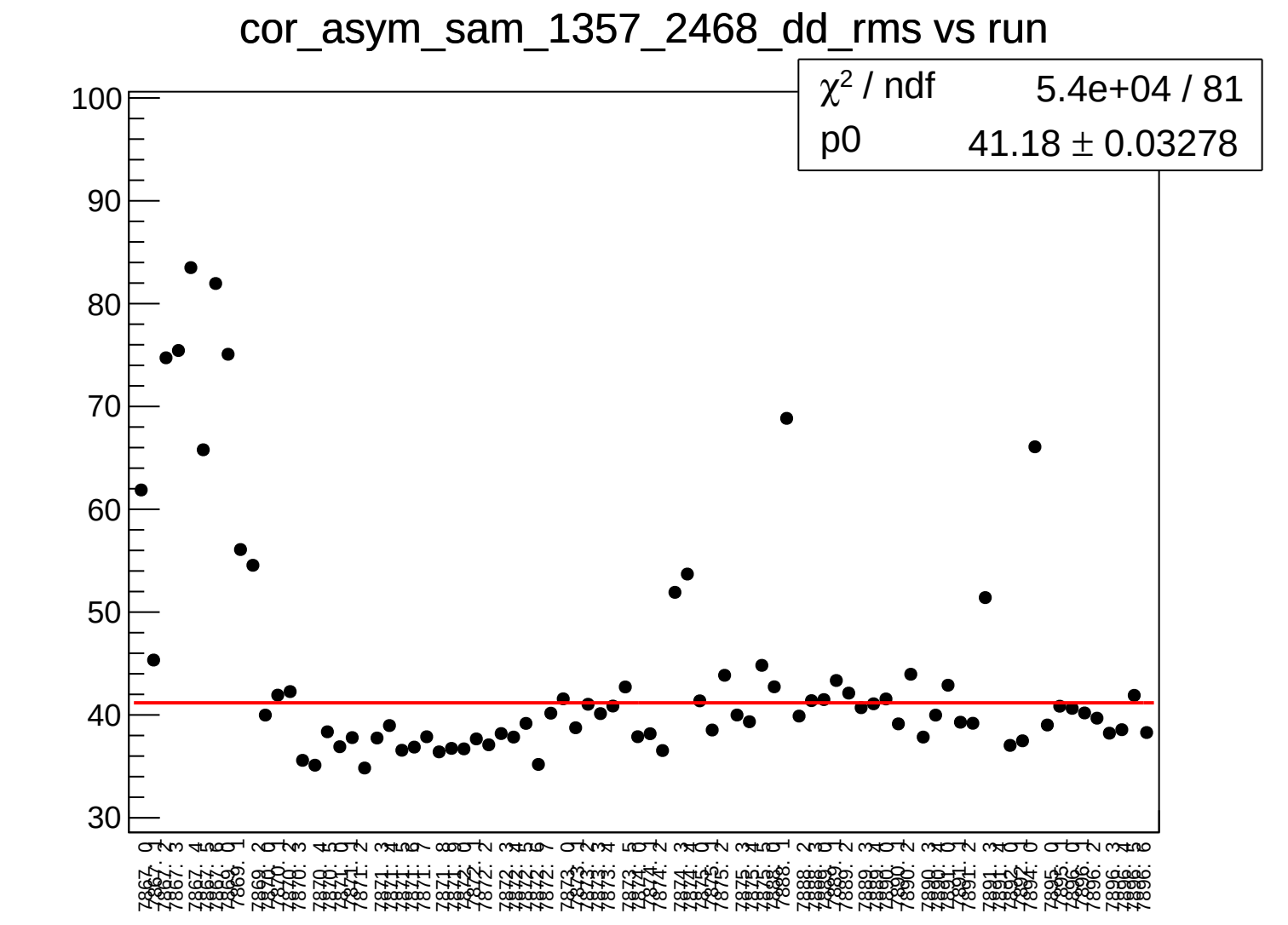

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.4e+04 / 81
p0 41.18 ± 0.03278
100
90
80
70
60
50
40
30

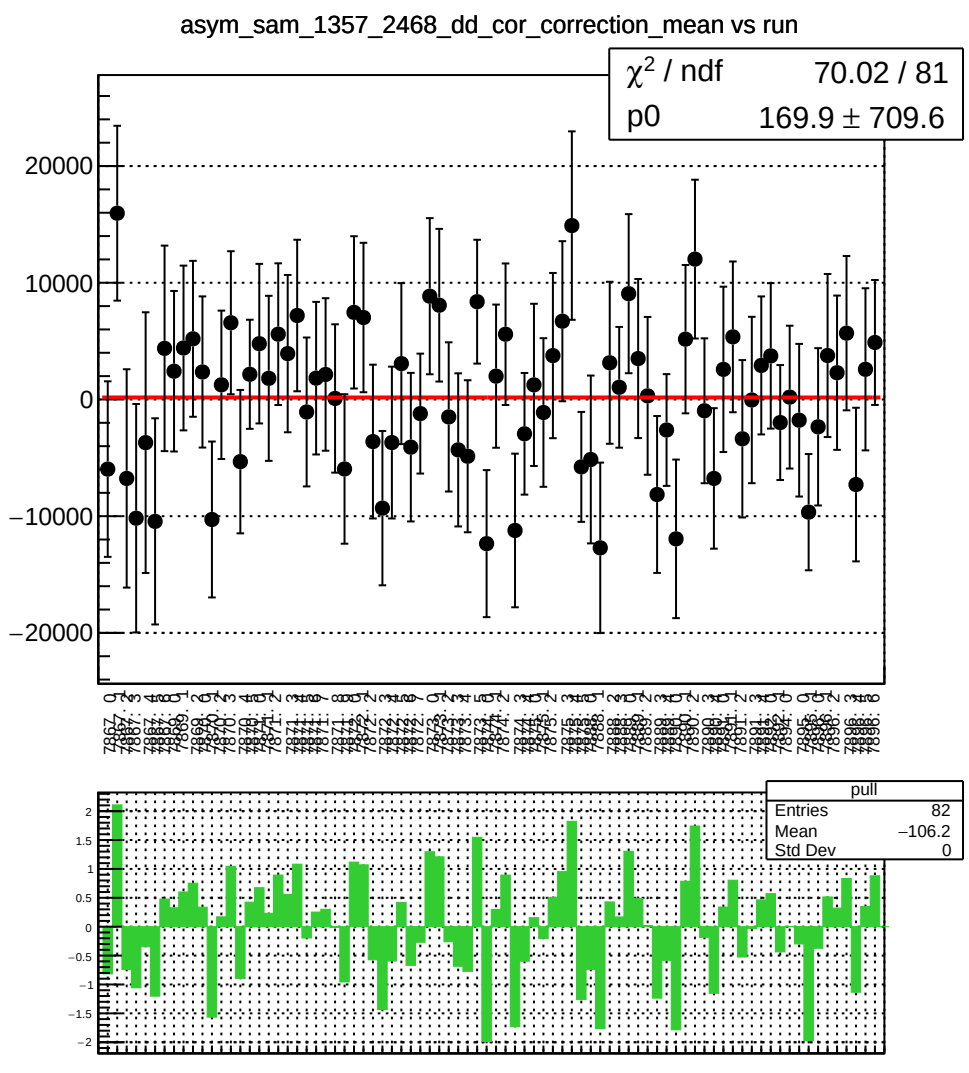

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 70.02 / 81
p0 169.9 ± 709.6
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −106.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

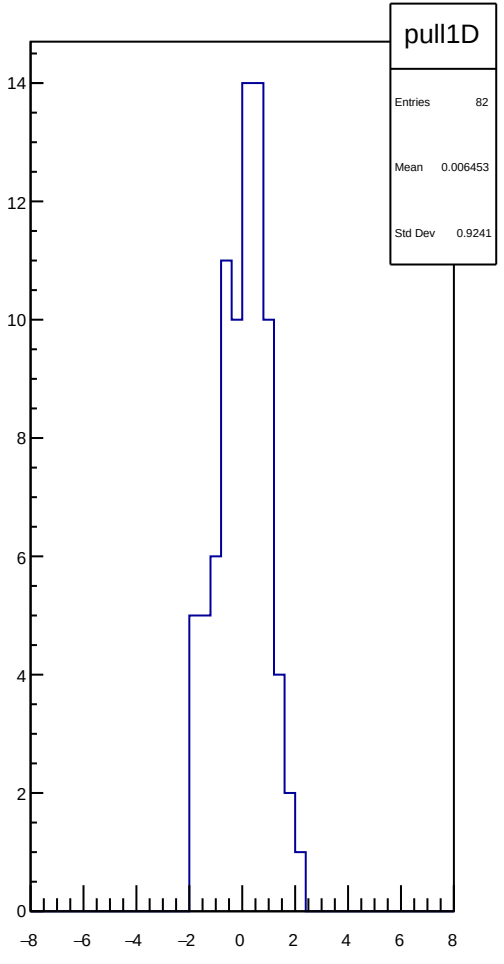

pull1D
Entries 82
Mean 0.006454
Std Dev 0.9241
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

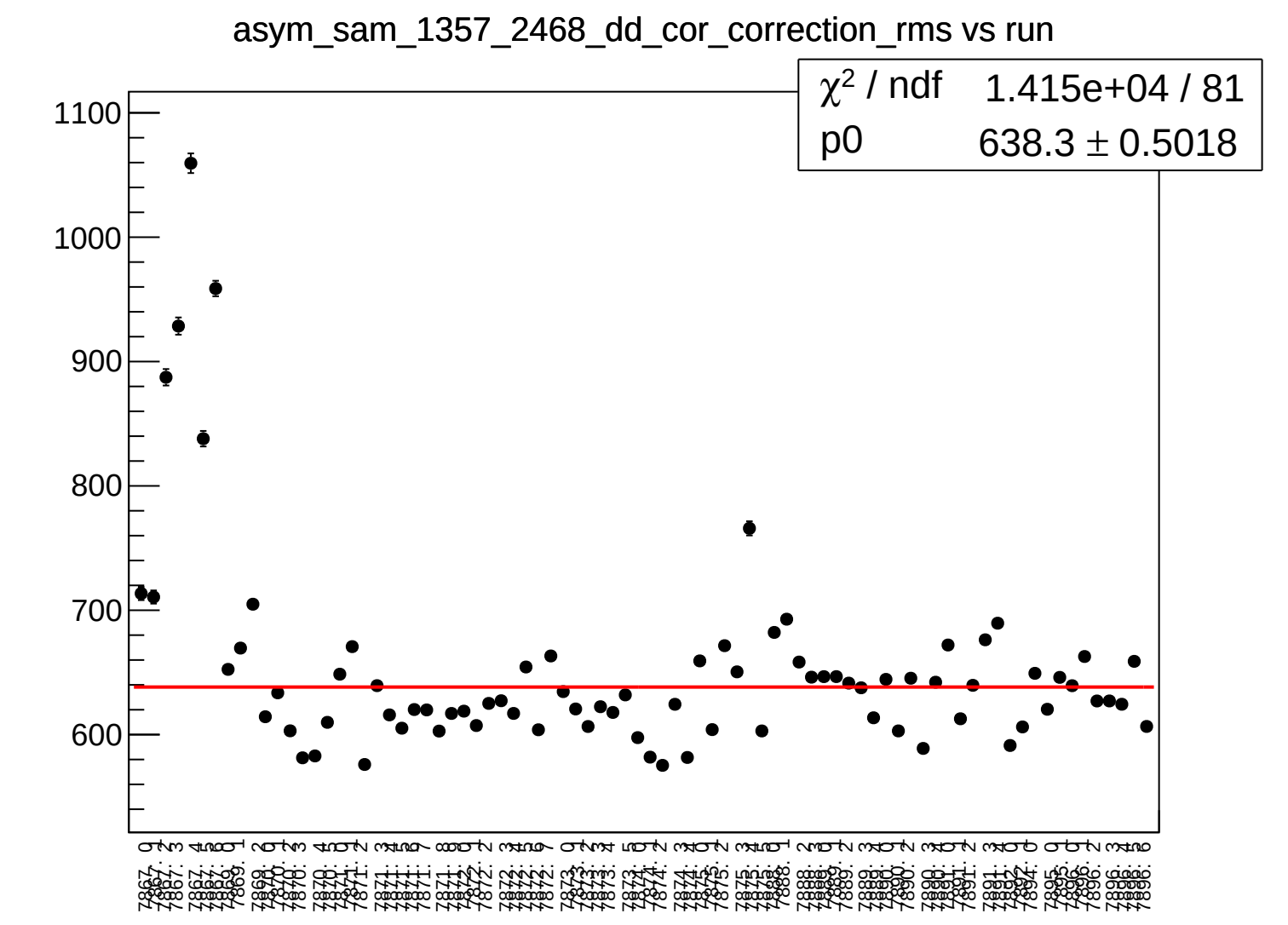

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.415e+04 / 81
p0 638.3 ± 0.5018
1100
1000
900
800
700
600

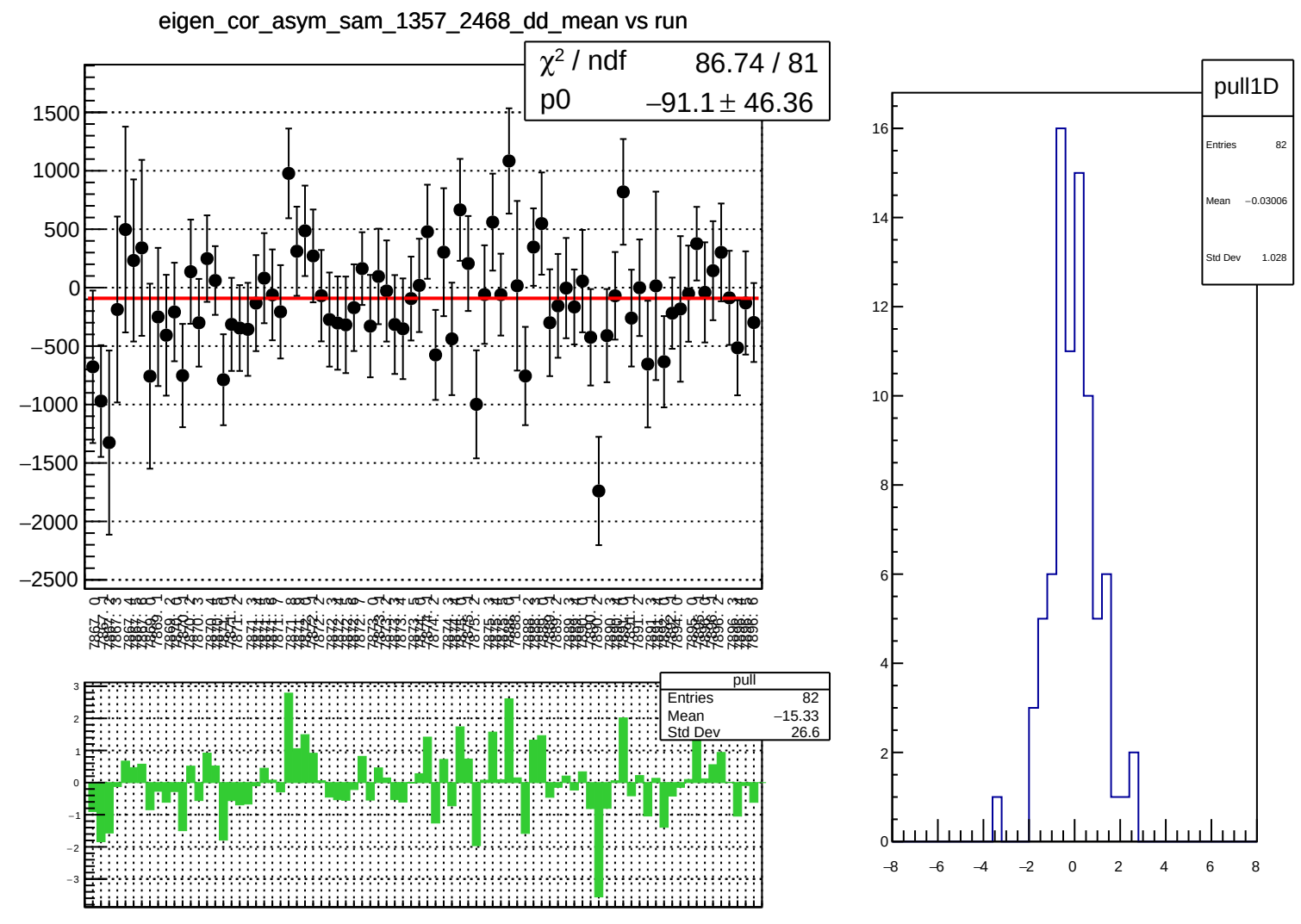

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.74 / 81
p0 −91.1 ± 46.36
pull
Entries 82
Mean −15.33
Std Dev 26.6
pull1D
Entries 82
Mean −0.03006
Std Dev 1.028

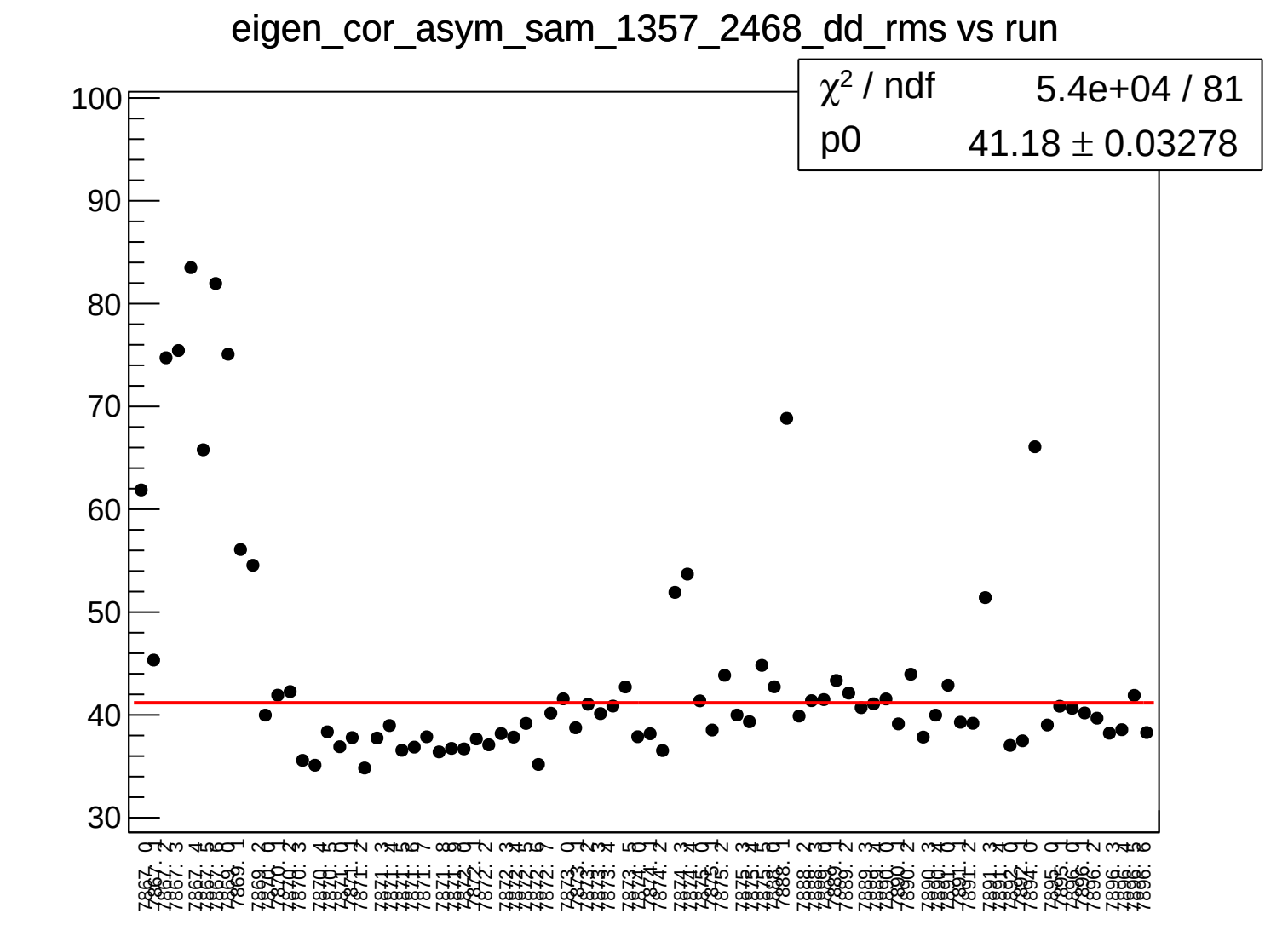

cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.4e+04 / 81
p0 41.18 ± 0.03278
100
90
80
70
60
50
40
30

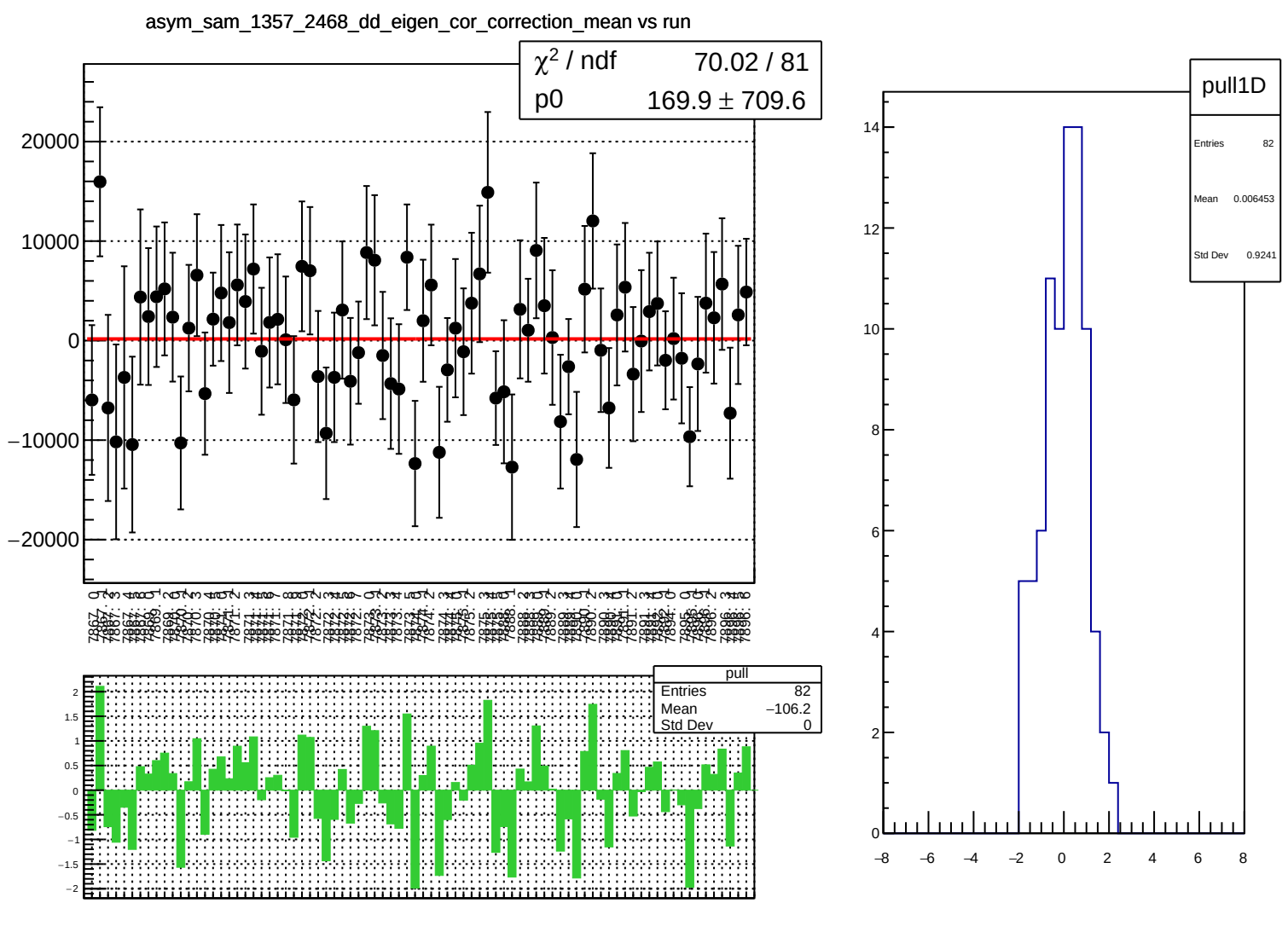

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 70.02 / 81
p0 169.9 ± 709.6
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −106.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

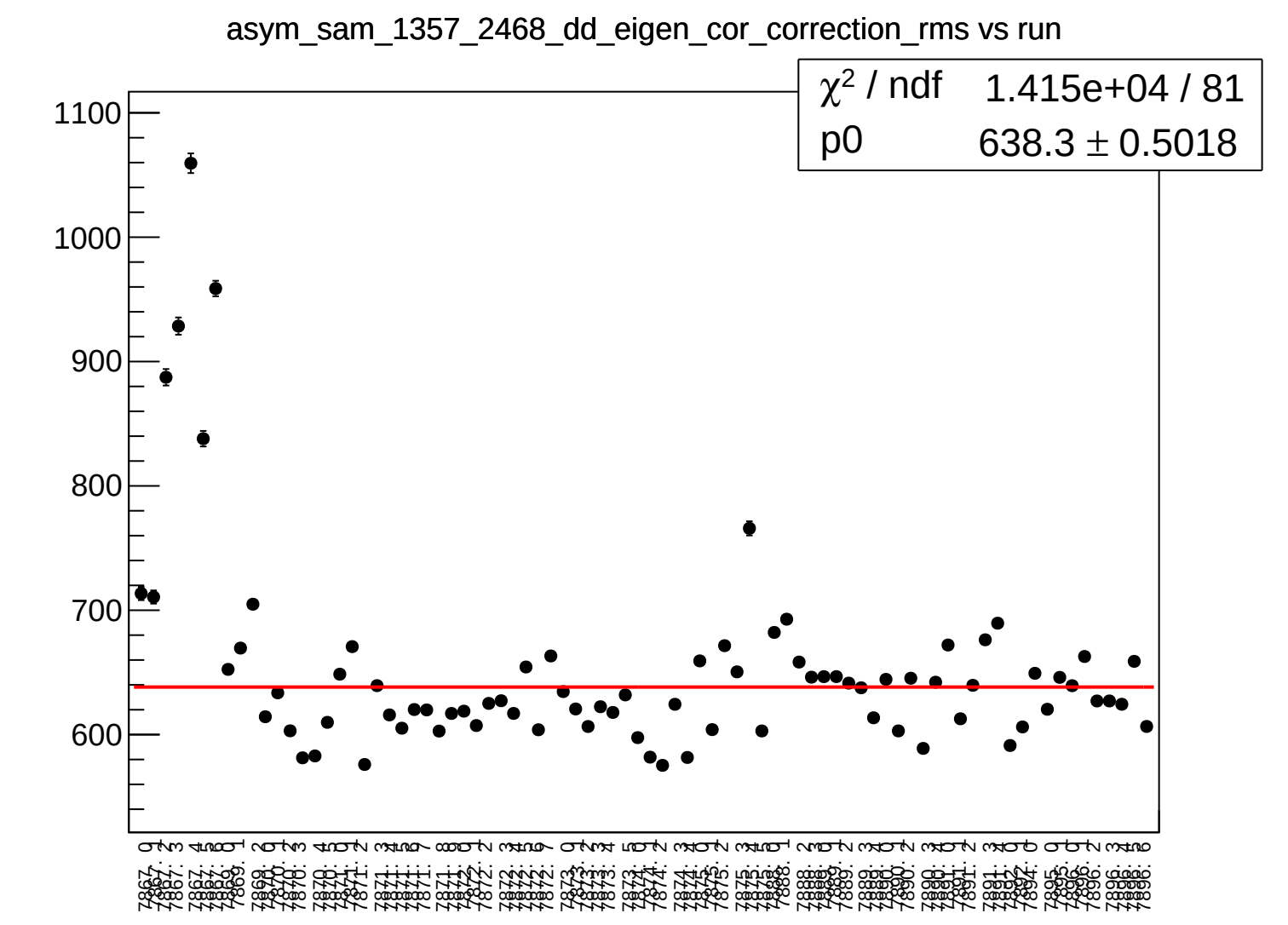

pull1D
Entries 82
Mean 0.006453
Std Dev 0.9241
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

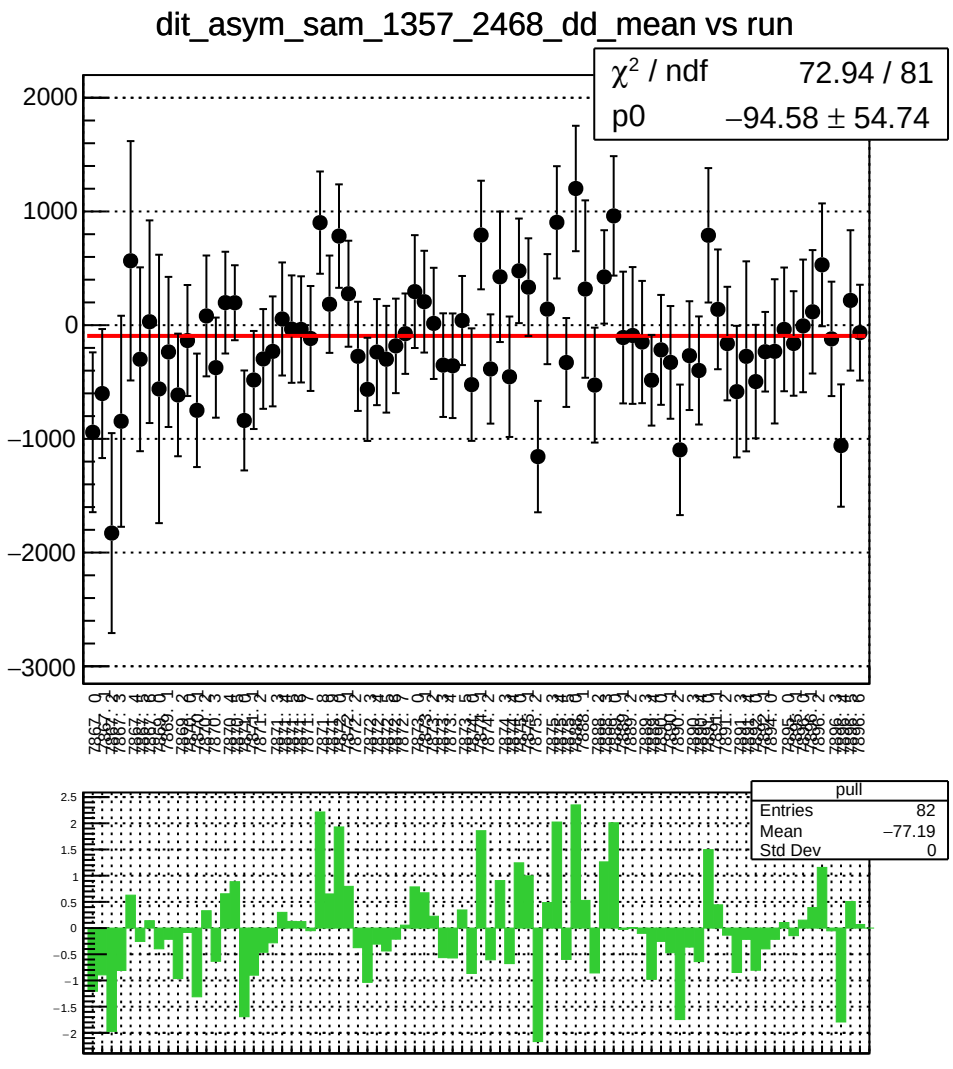

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.415e+04 / 81
p0 638.3 ± 0.5018
1100
1000
900
800
700
600

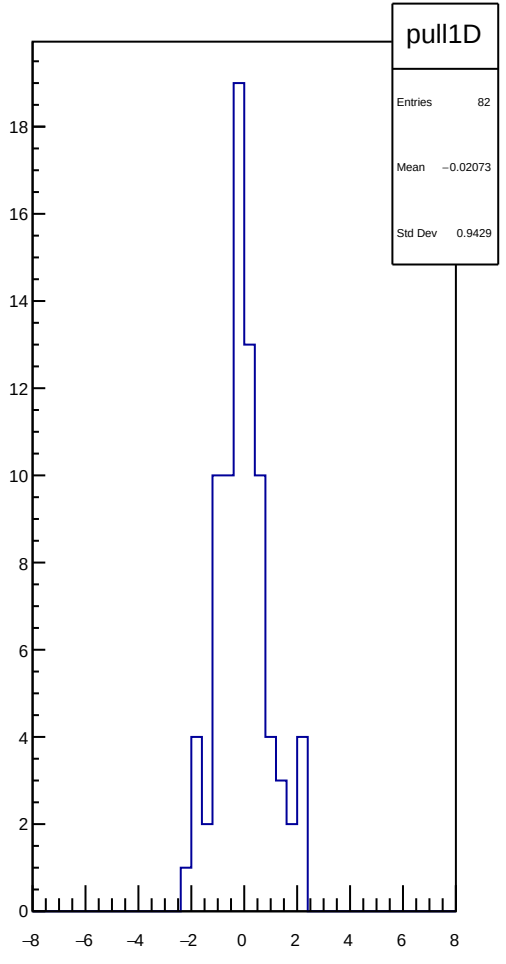

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.74 / 81
p0 −91.1 ± 46.36
pull
Entries 82
Mean −15.33
Std Dev 26.6
pull1D
Entries 82
Mean −0.03006
Std Dev 1.028

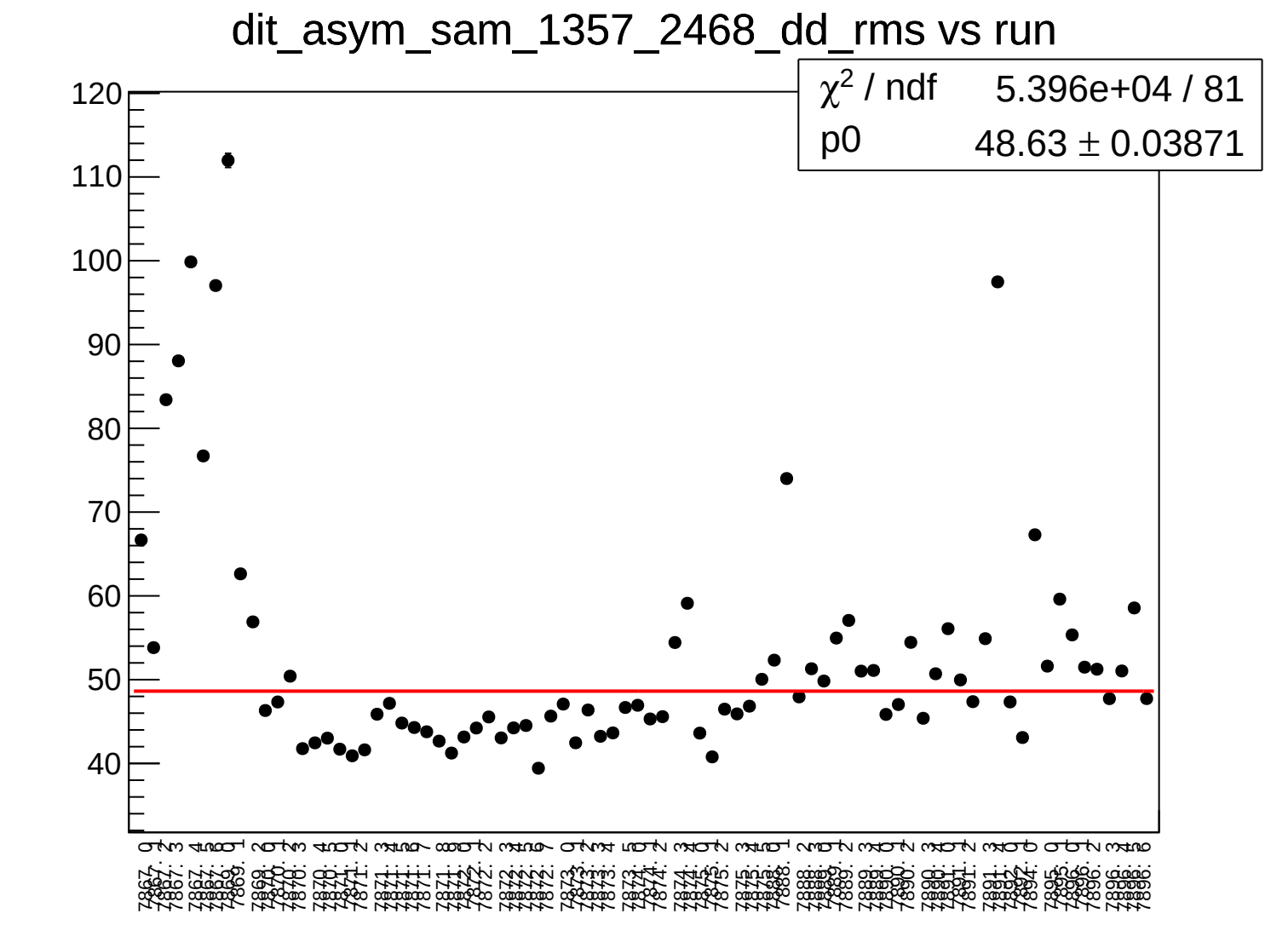

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.4e+04 / 81
p0 41.18 ± 0.03278
100
90
80
70
60
50
40
30

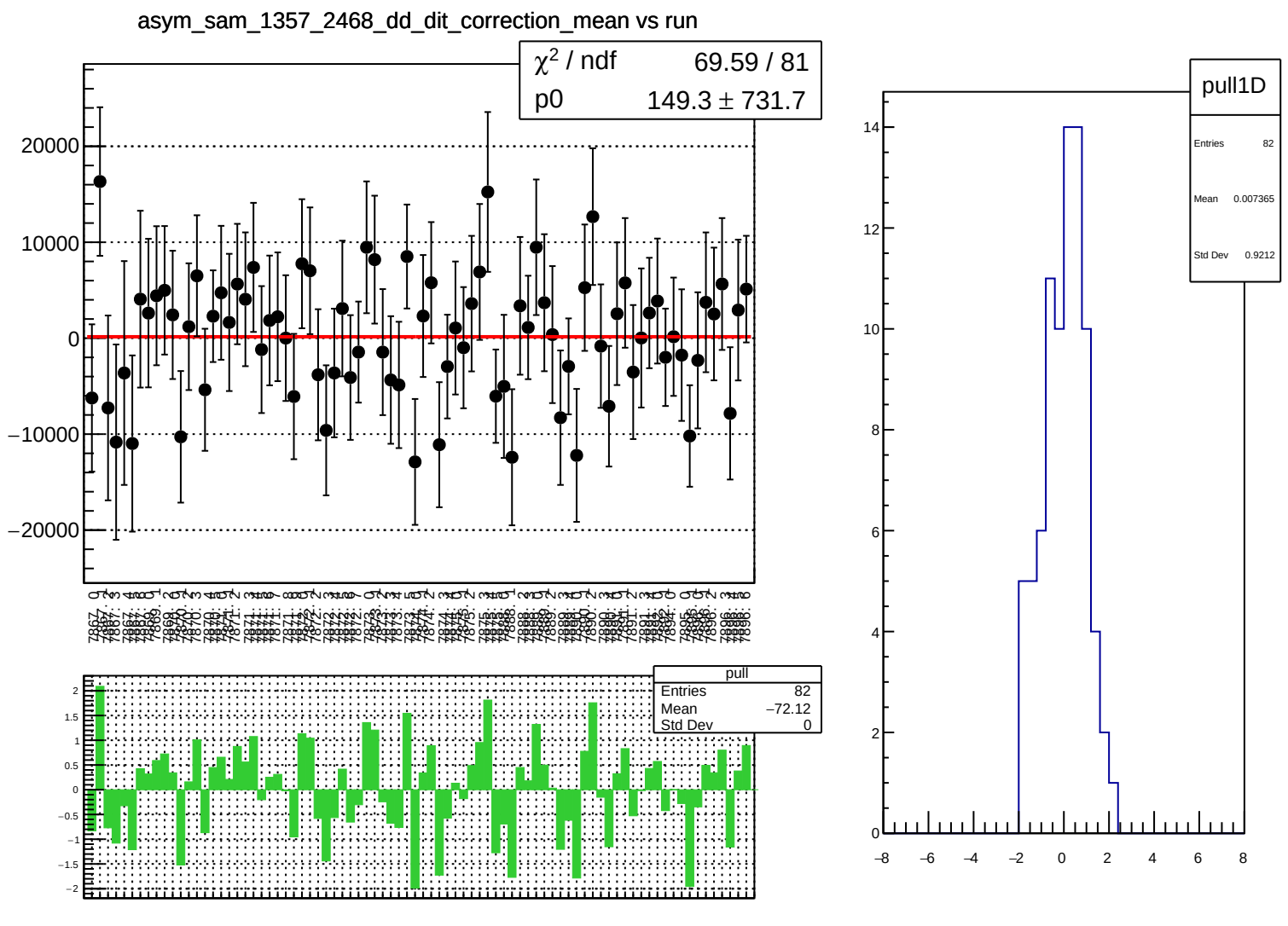

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.02 / 81
p0 169.9 ± 709.6
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −106.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.006453
Std Dev 0.9241
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

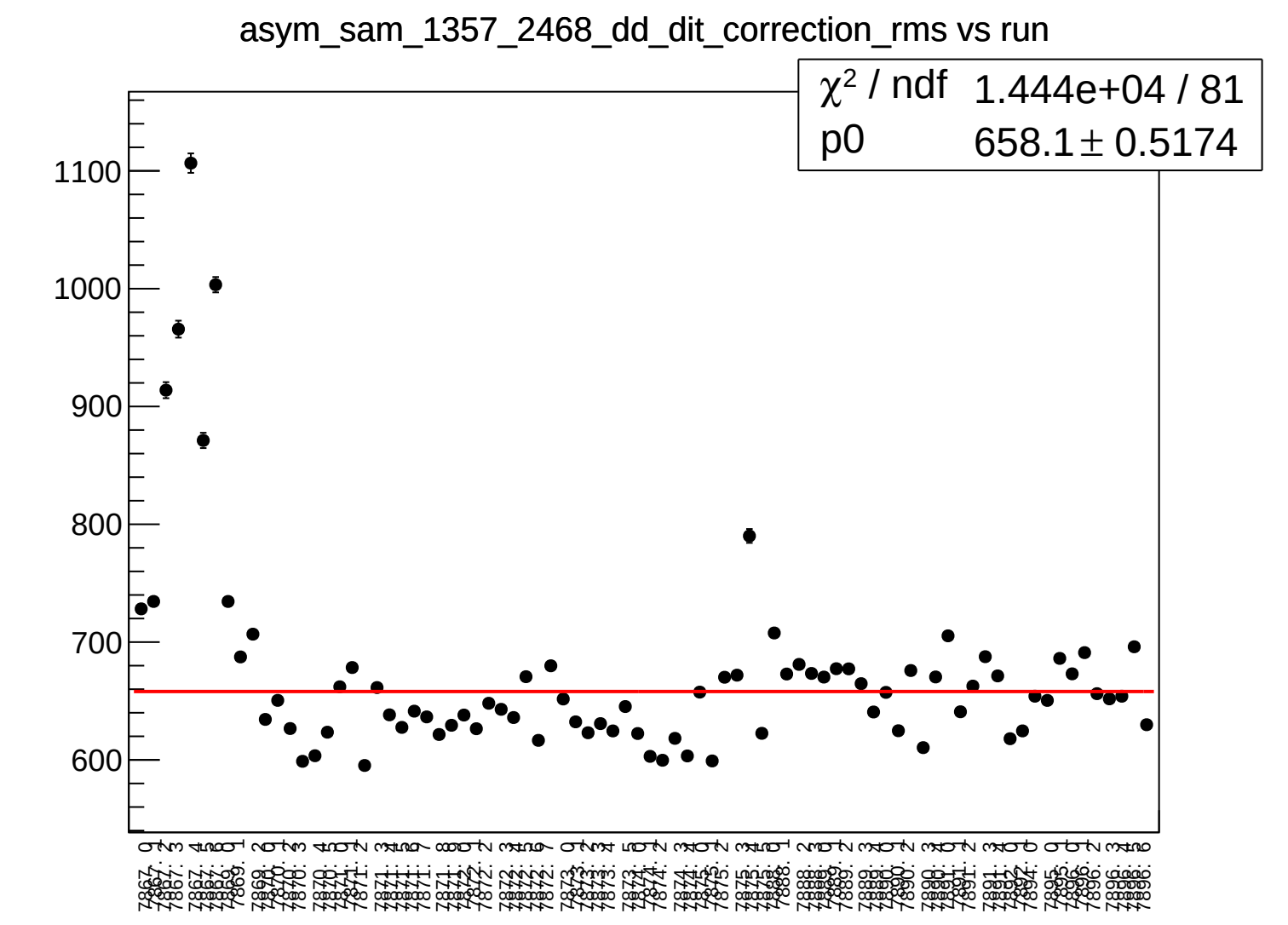

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.415e+04 / 81
p0 638.3 ± 0.5018
1100
1000
900
800
700
600

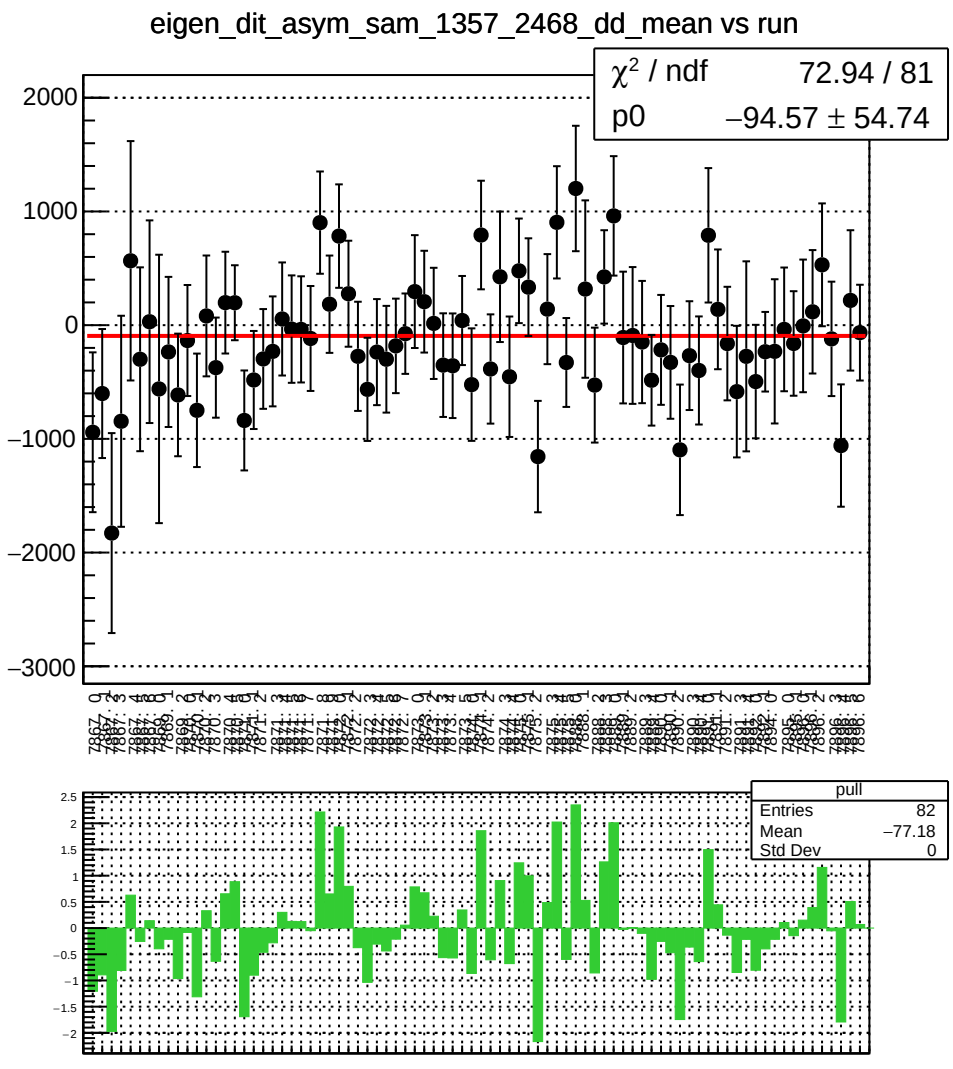

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.94 / 81
p0 −94.58 ± 54.74
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −77.19
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

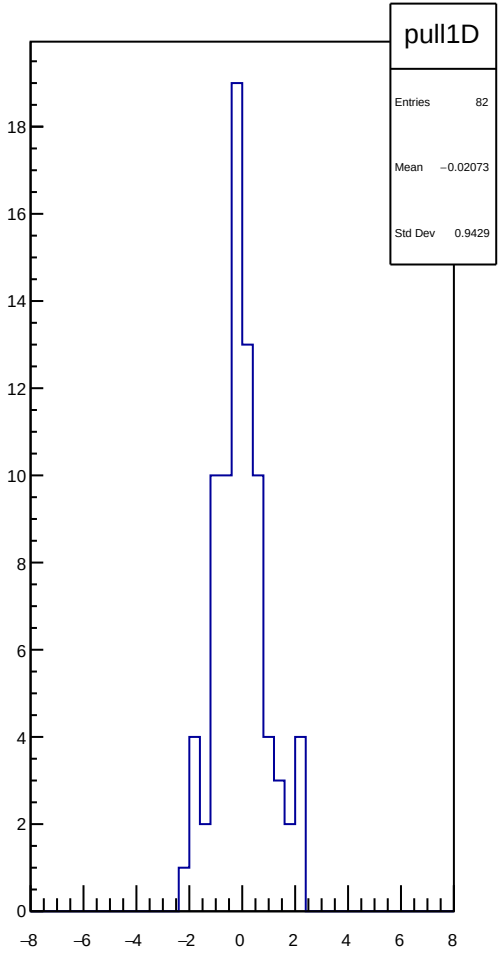

pull1D
Entries 82
Mean −0.02073
Std Dev 0.9429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

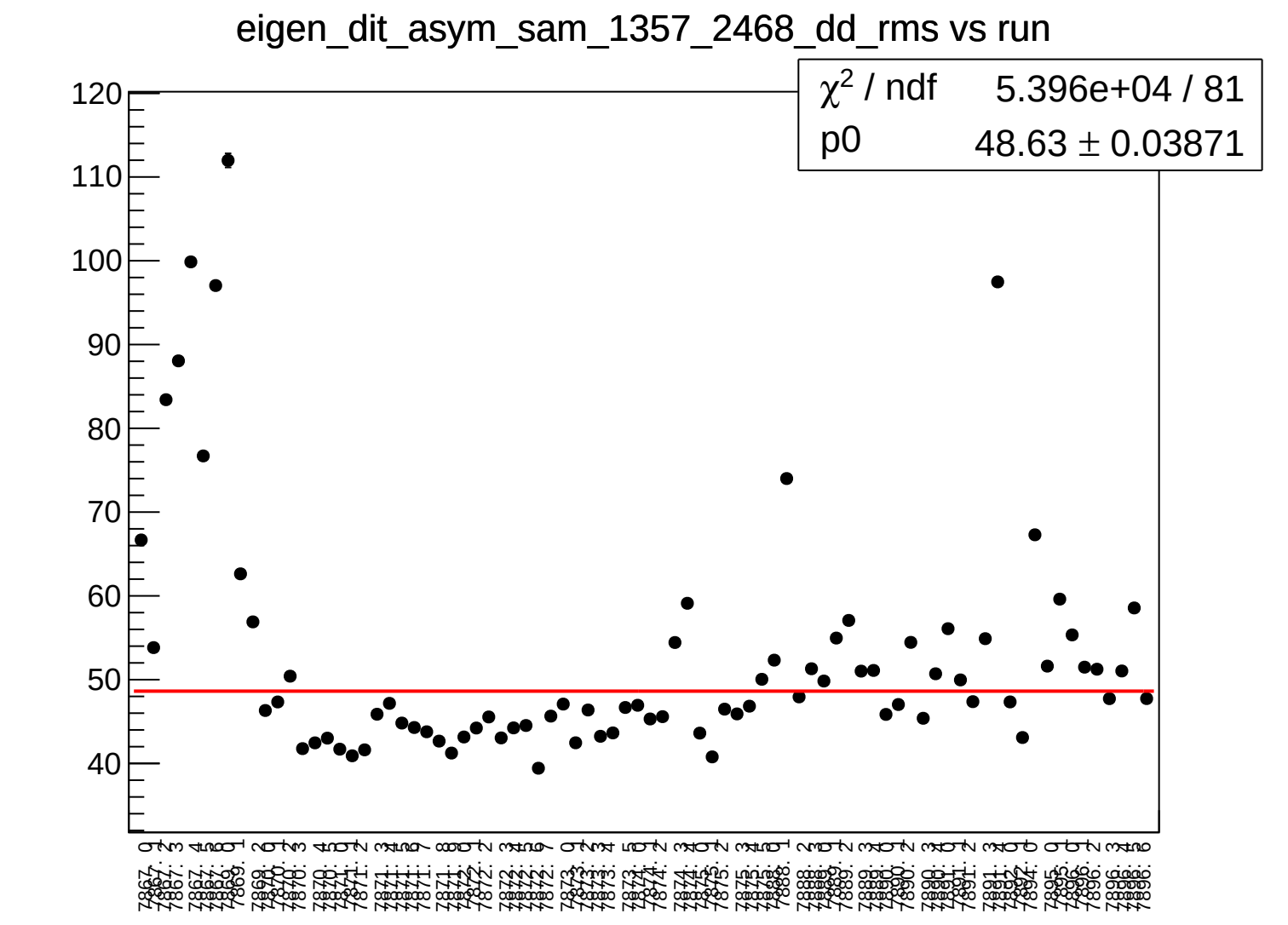

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.396e+04 / 81
p0 48.63 ± 0.03871
120
110
100
90
80
70
60
50
40

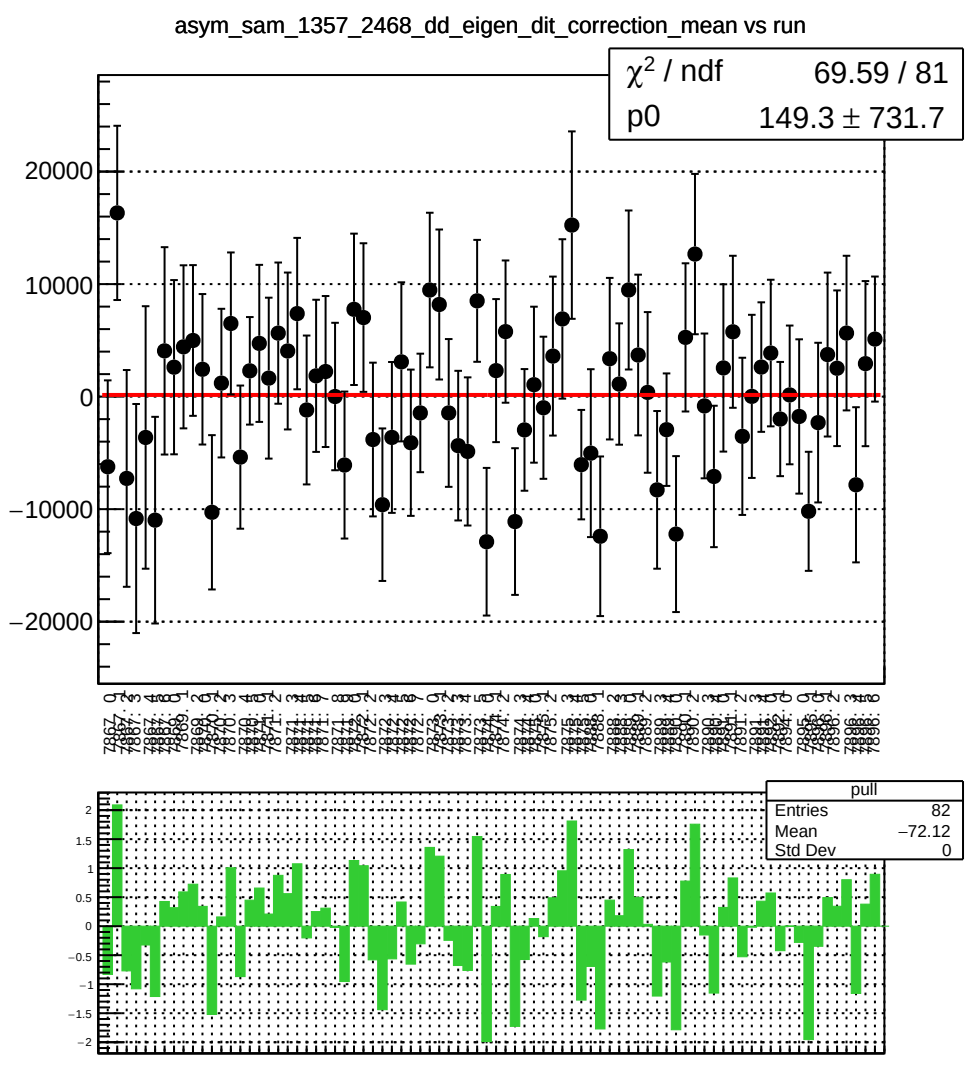

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 69.59 / 81
p0 149.3 ± 731.7
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −72.12
Std Dev 0
pull1D
Entries 82
Mean 0.007365
Std Dev 0.9212

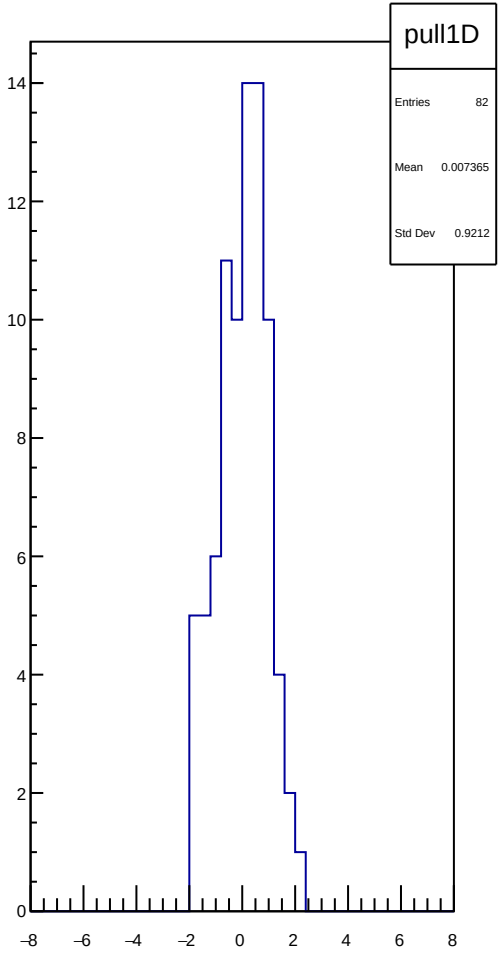

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.444e+04 / 81
p0 658.1 ± 0.5174
1100
1000
900
800
700
600

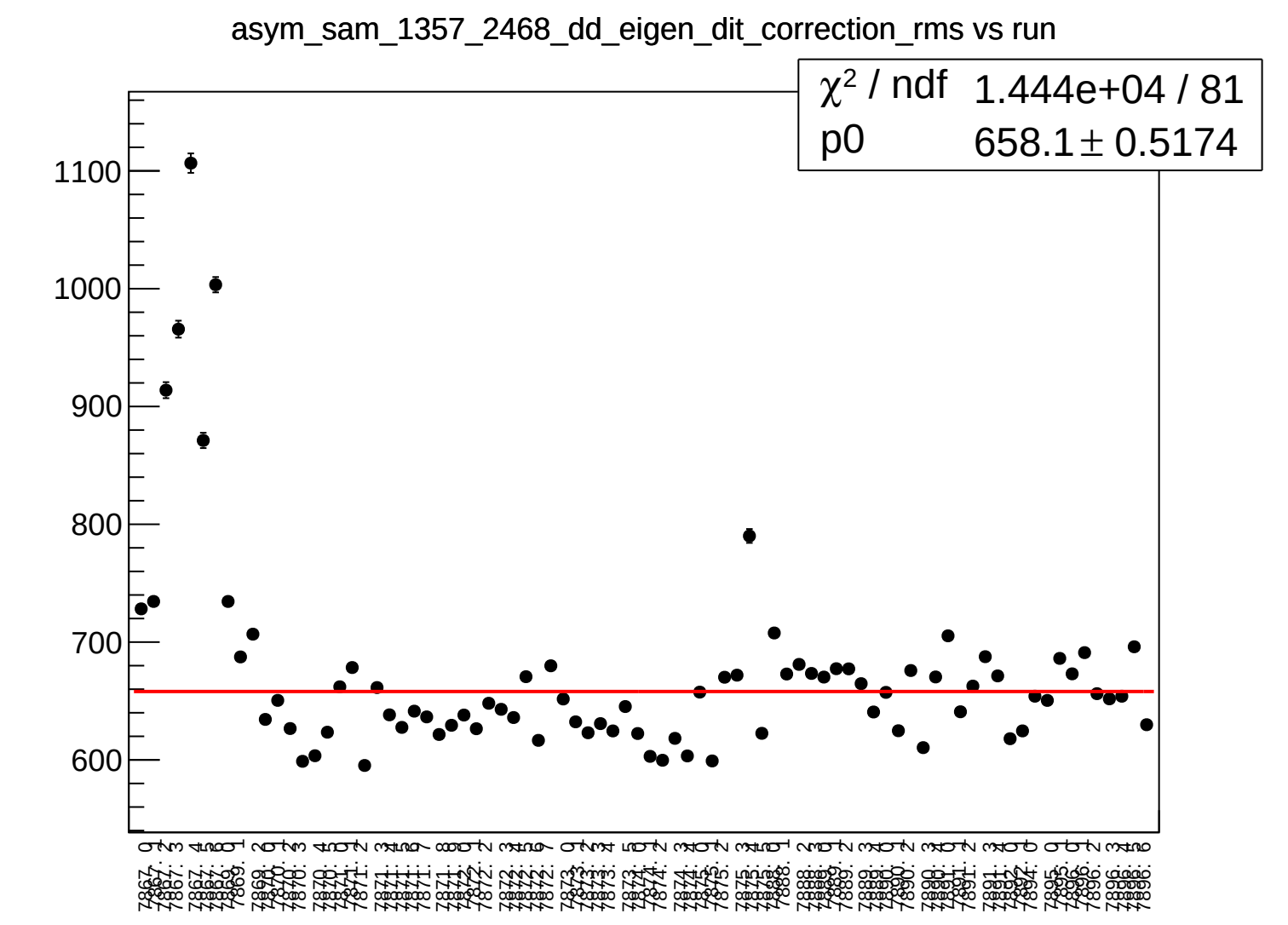

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.94 / 81
p0 −94.57 ± 54.74
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −77.18
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

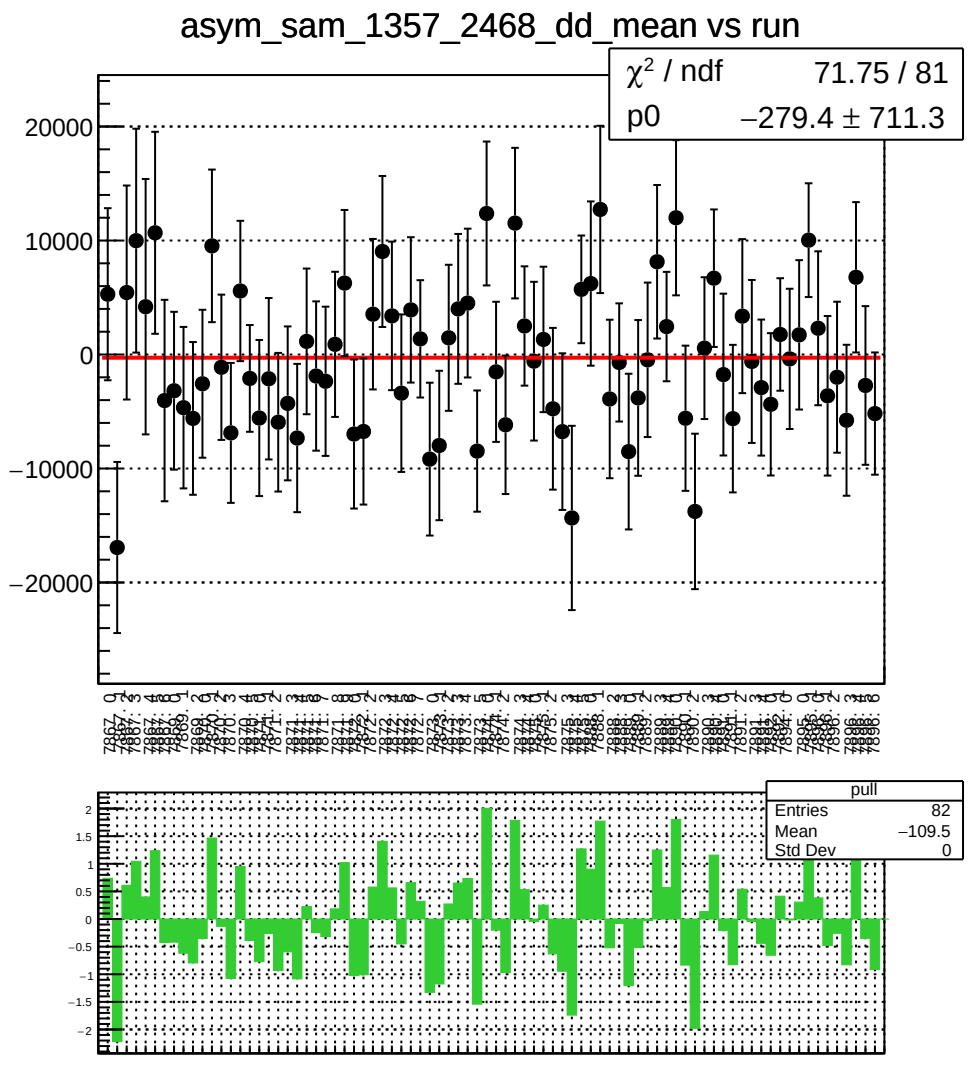

pull1D
Entries 82
Mean −0.02073
Std Dev 0.9429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

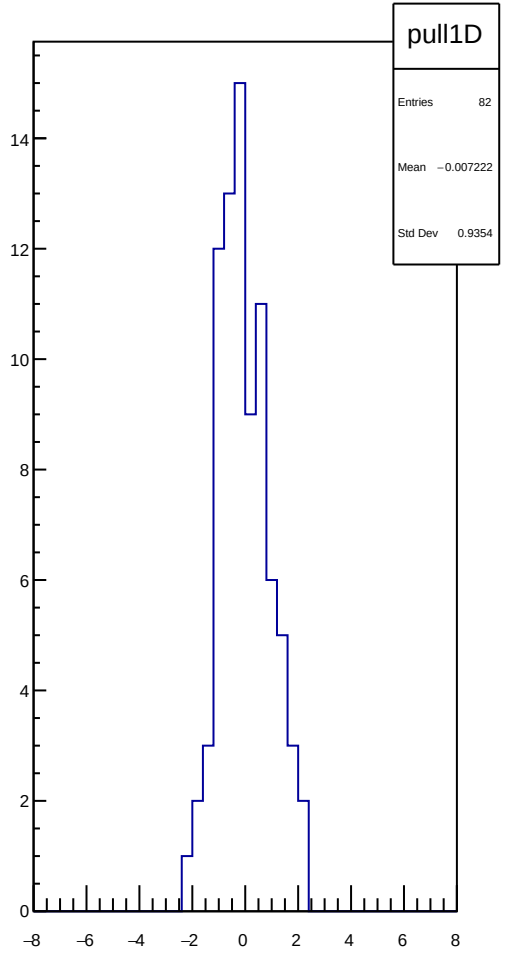

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.396e+04 / 81
p0 48.63 ± 0.03871
120
110
100
90
80
70
60
50
40

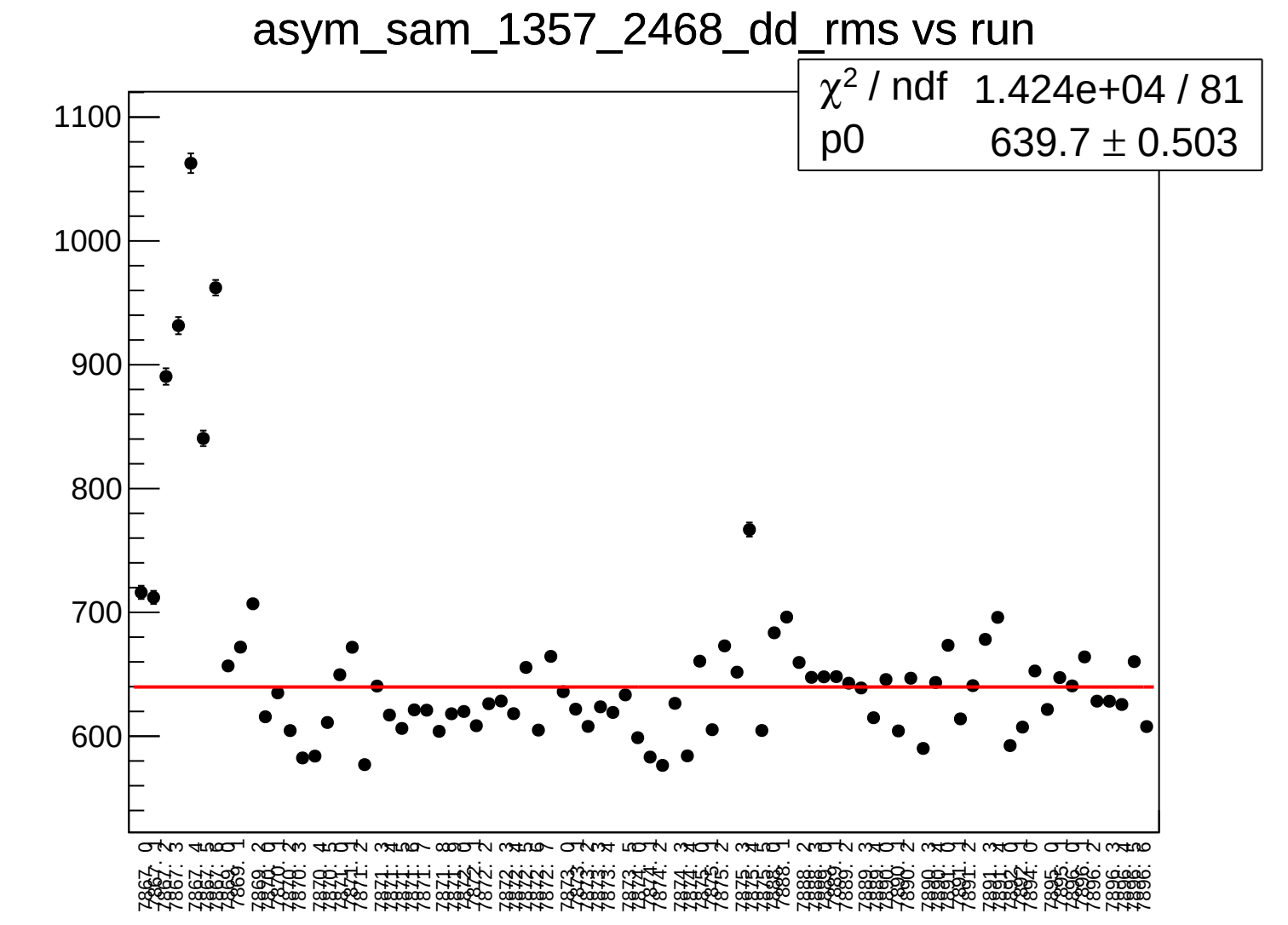

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.59 / 81
p0 149.3 ± 731.7
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −72.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

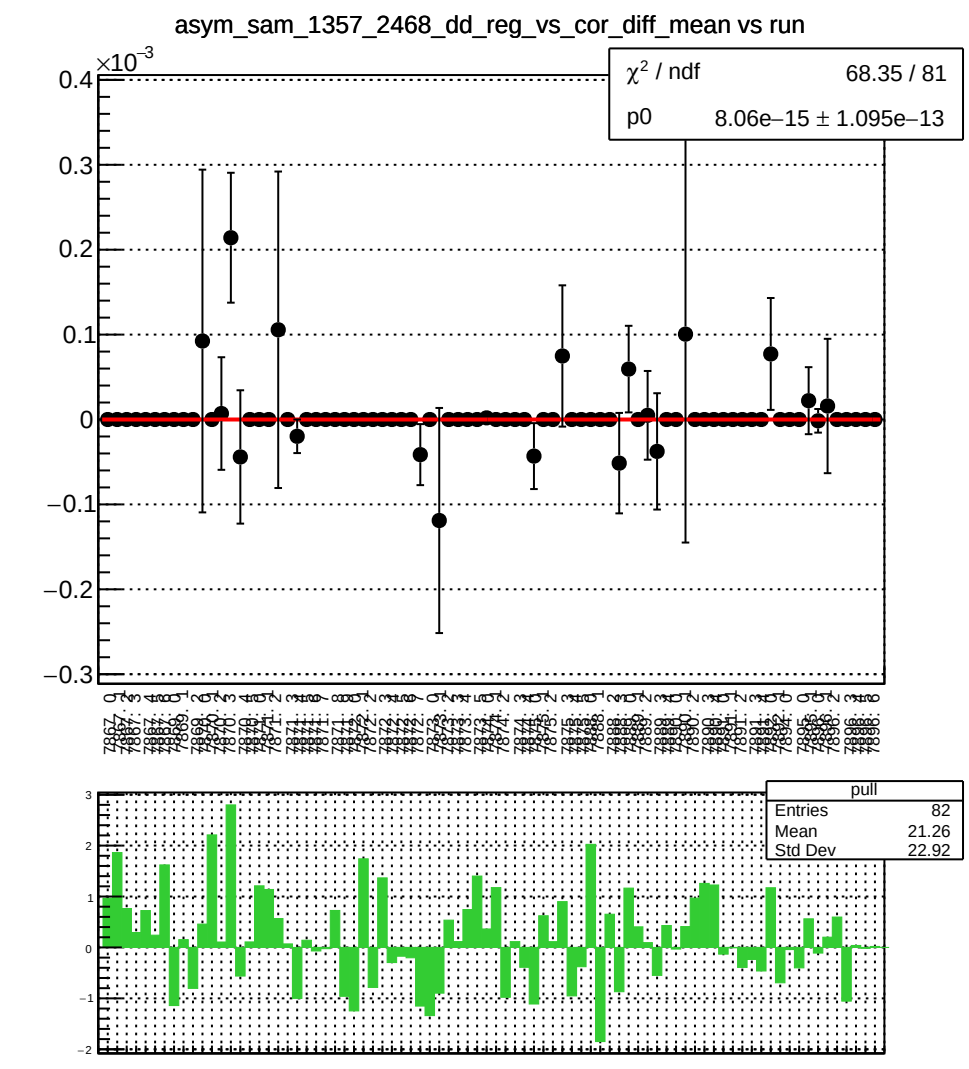

pull1D
Entries 82
Mean 0.007365
Std Dev 0.9212
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

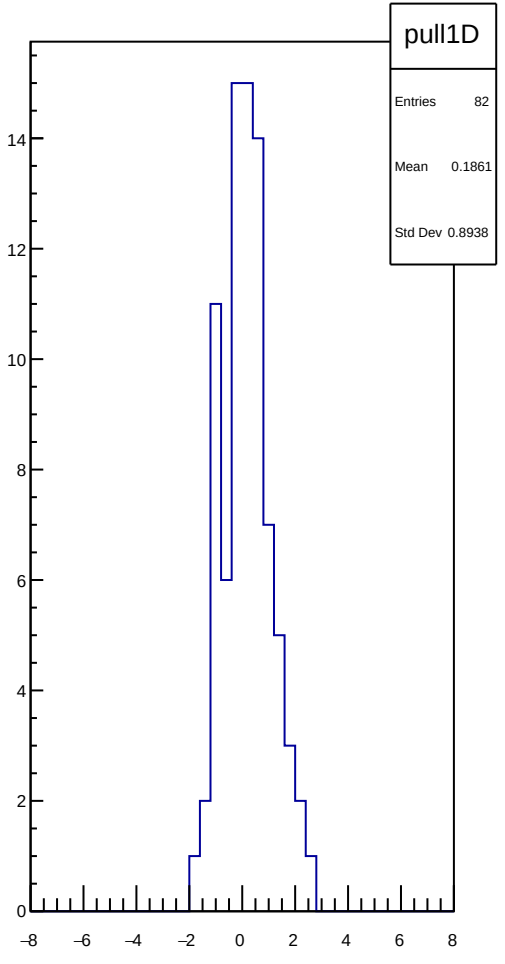

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.444e+04 / 81
p0 658.1 ± 0.5174
1100
1000
900
800
700
600

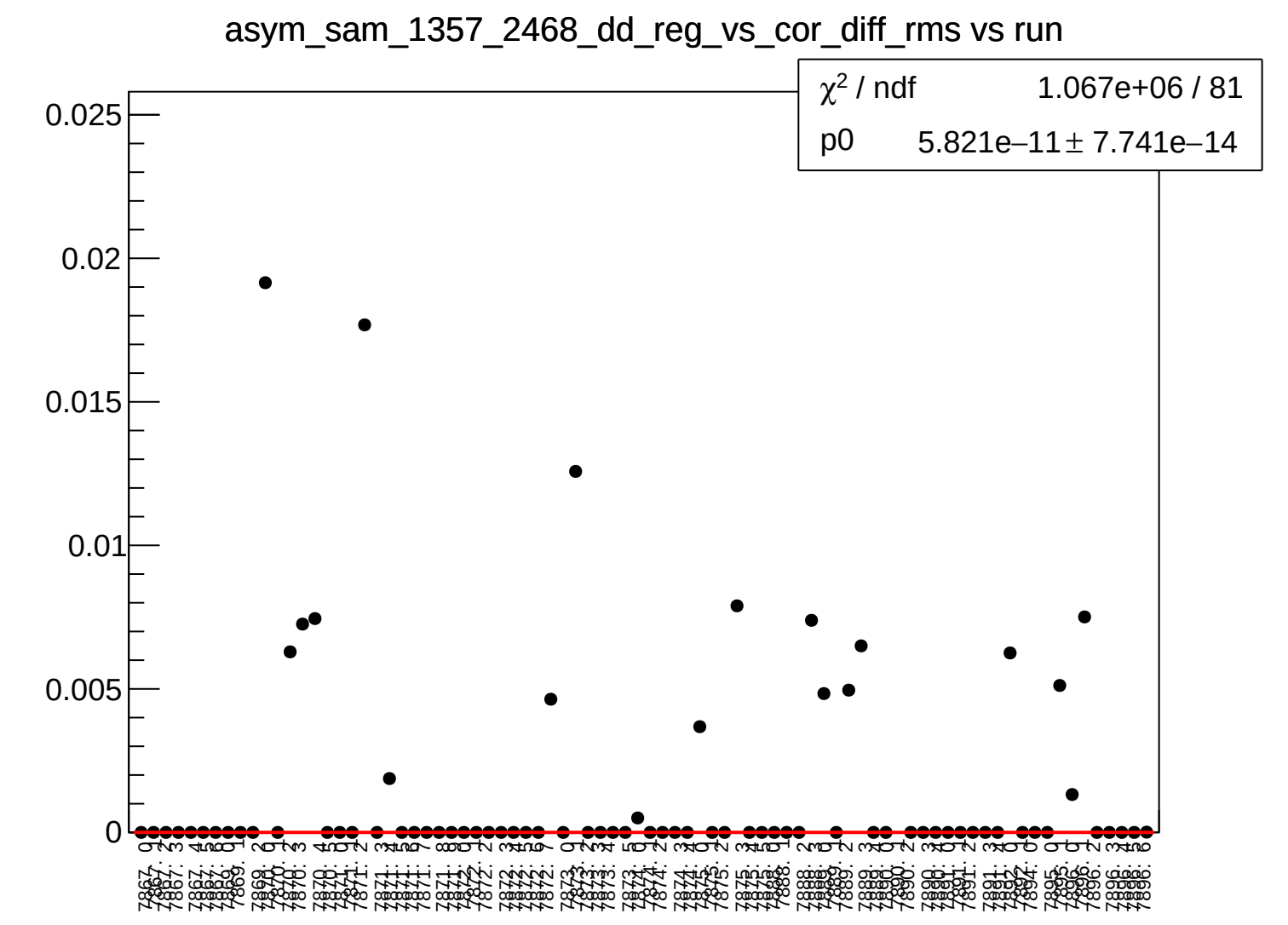

asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 71.75 / 81
p0 −279.4 ± 711.3
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −109.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

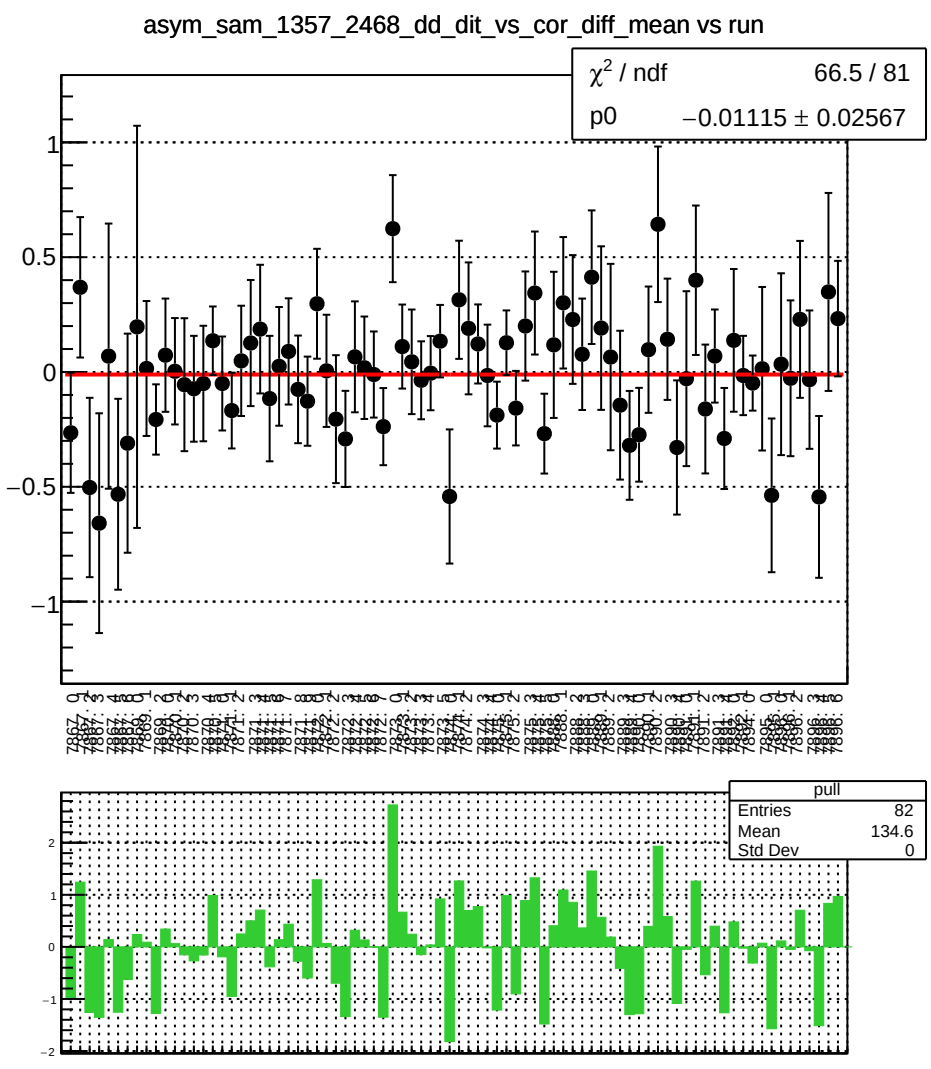

pull1D
Entries 82
Mean −0.007222
Std Dev 0.9354
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

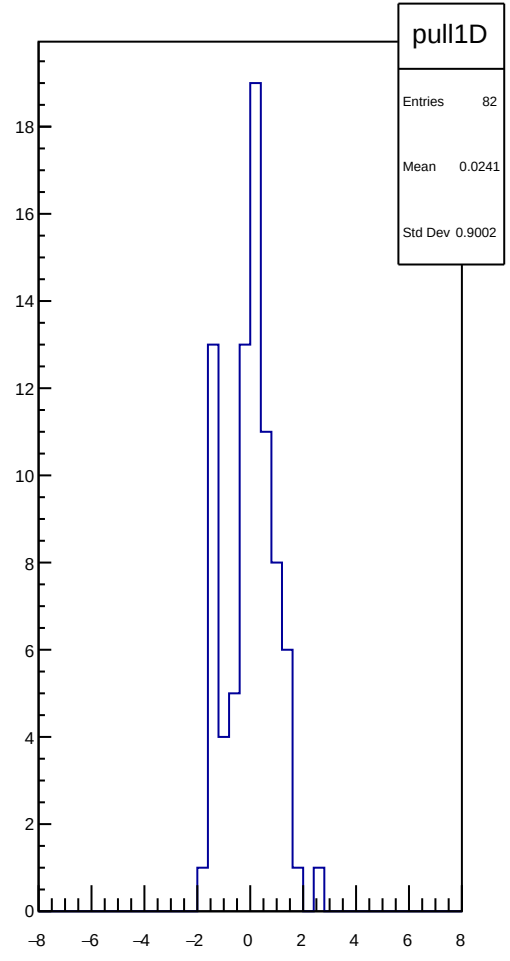

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.424e+04 / 81
p0 639.7 ± 0.503
1100
1000
900
800
700
600

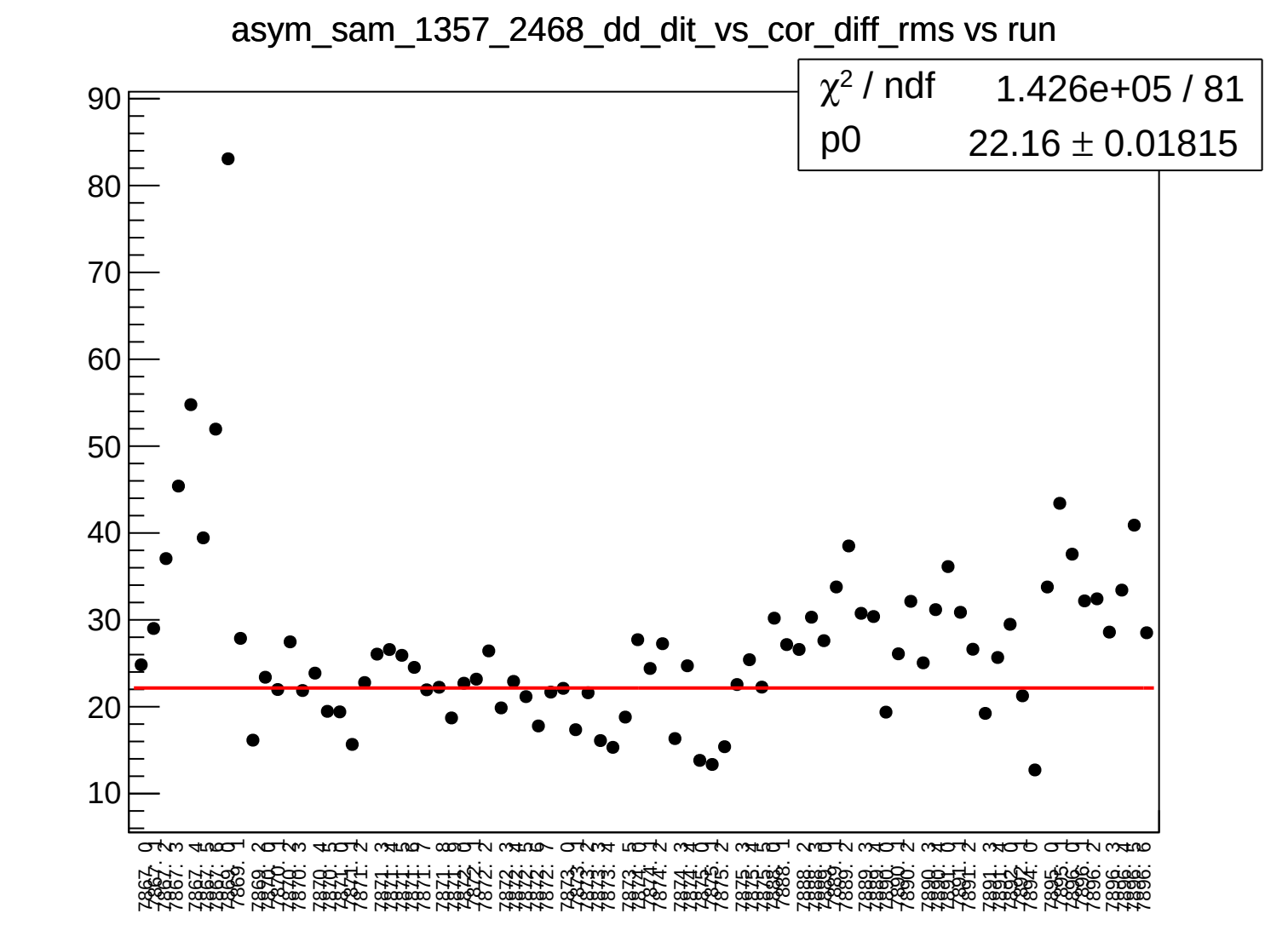

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 68.35 / 81
p0 8.06e−15 ± 1.095e−13
pull
Entries 82
Mean 21.26
Std Dev 22.92

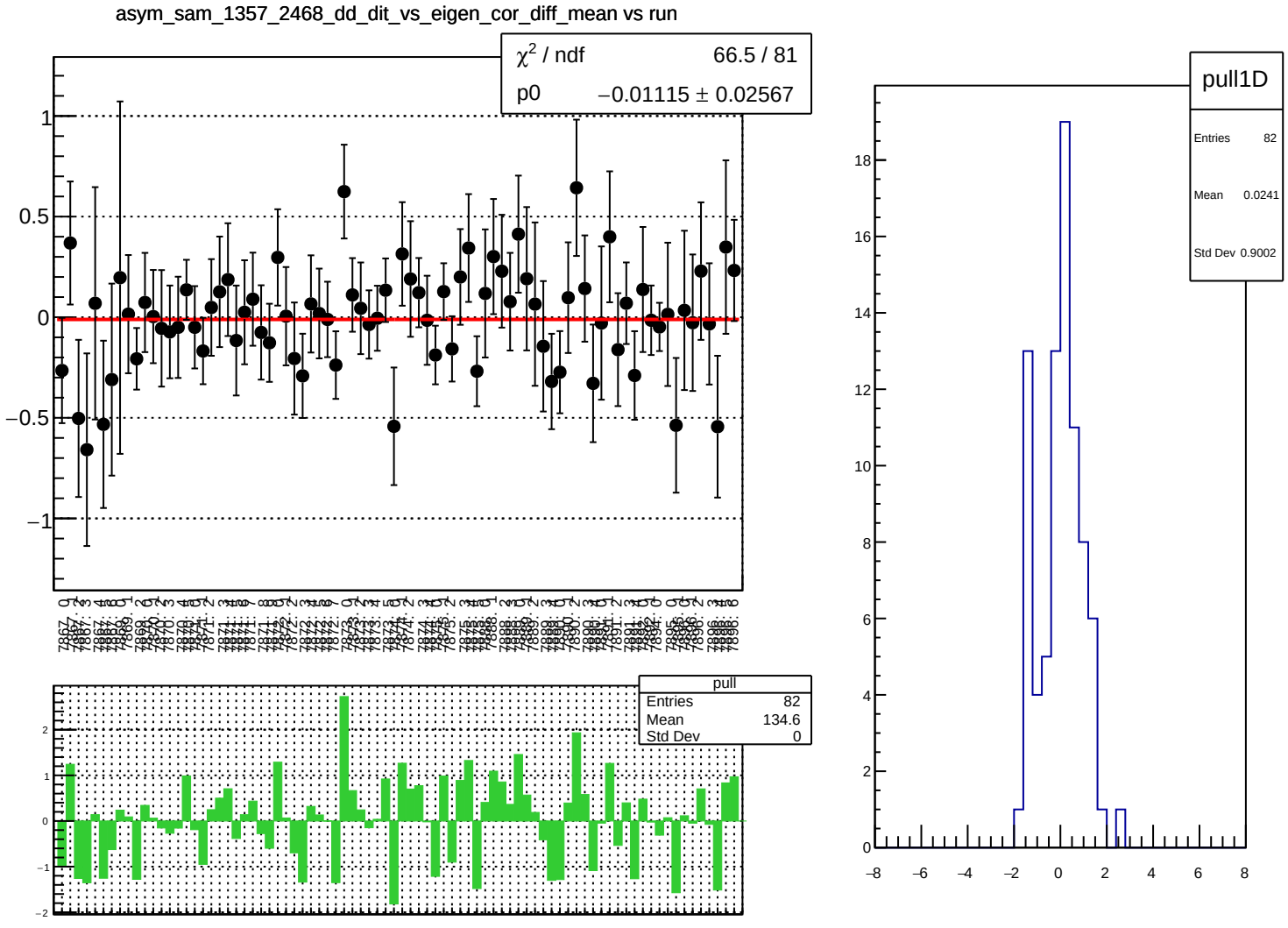

pull1D
Entries 82
Mean 0.1861
Std Dev 0.8938

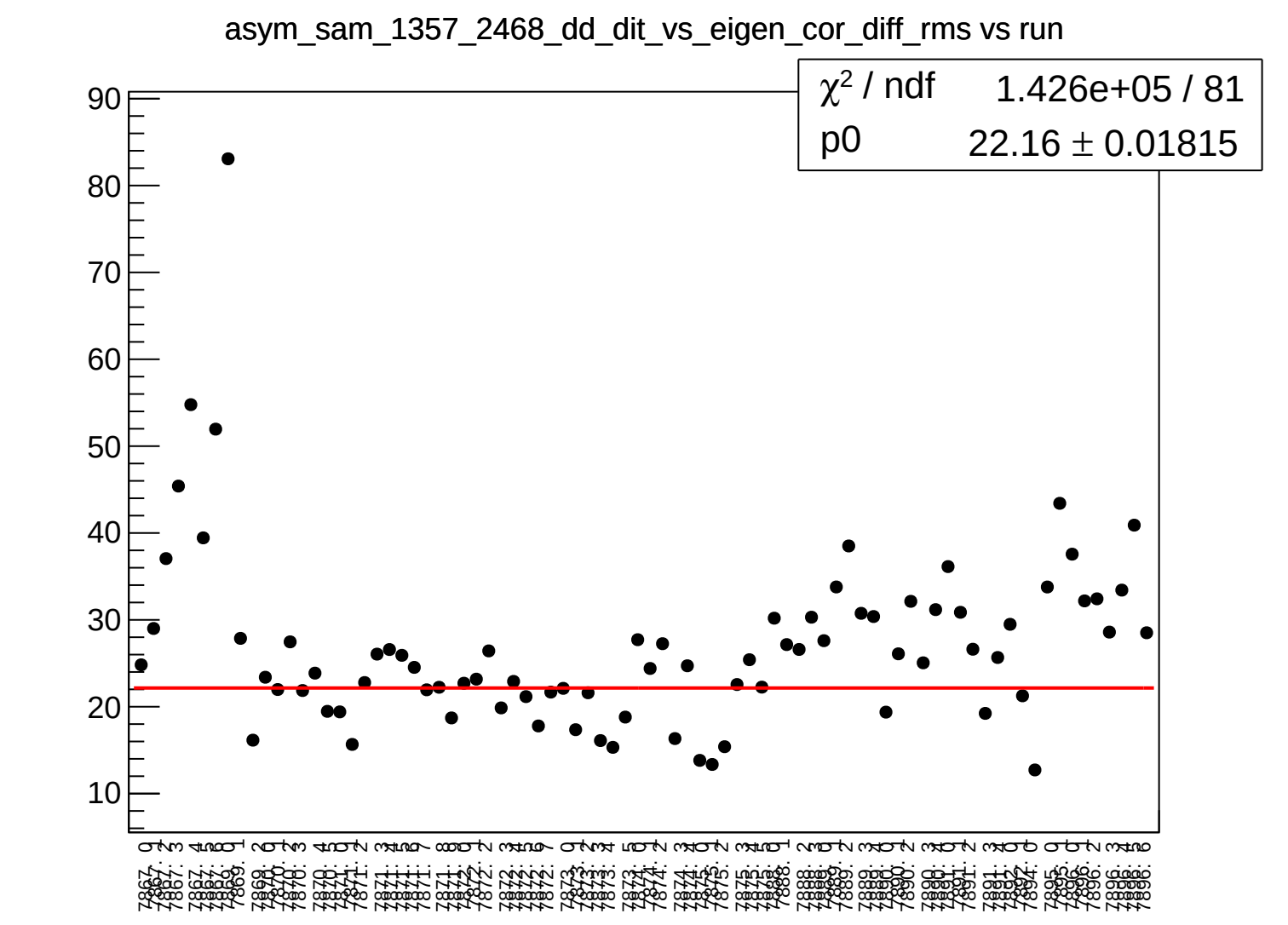

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 81
p0 5.821e−11 ± 7.741e−14
0.025
0.02
0.015
0.01
0.005
0

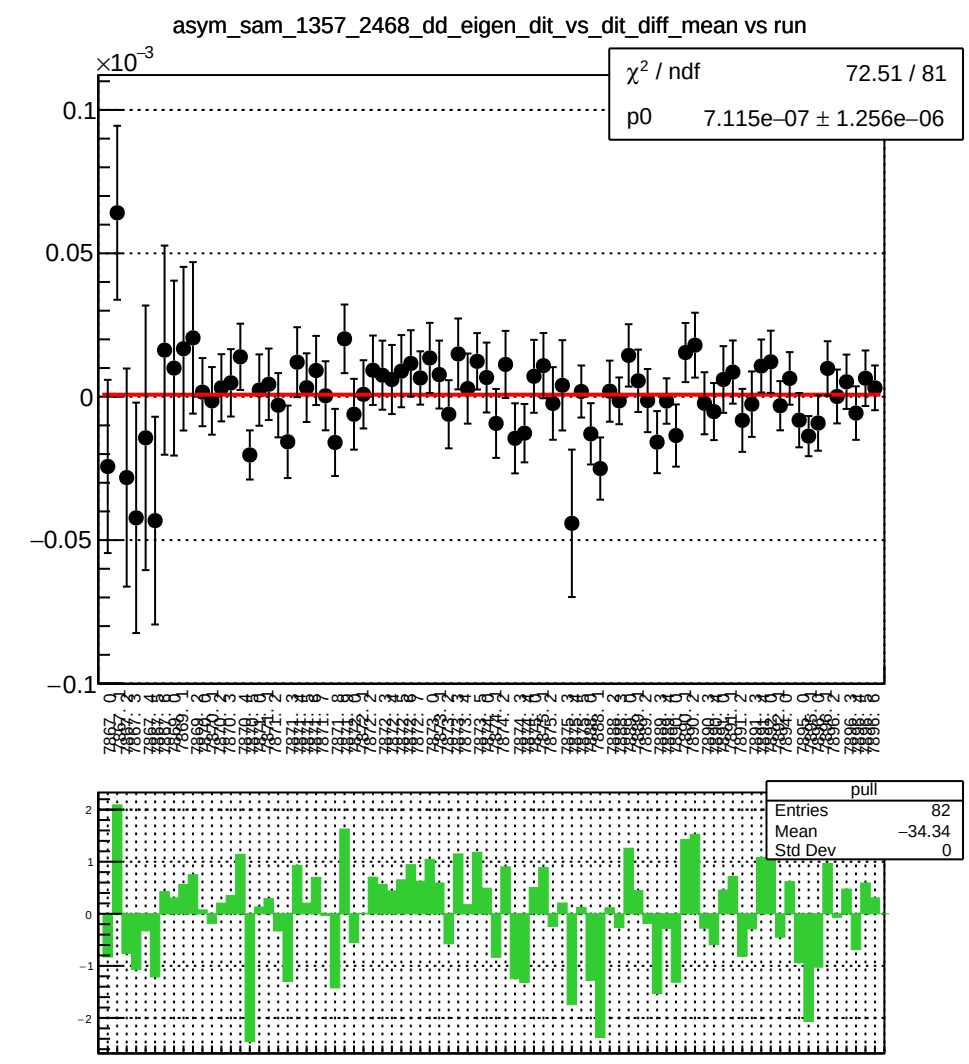

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.5 / 81
p0 −0.01115 ± 0.02567
pull
Entries 82
Mean 134.6
Std Dev 0

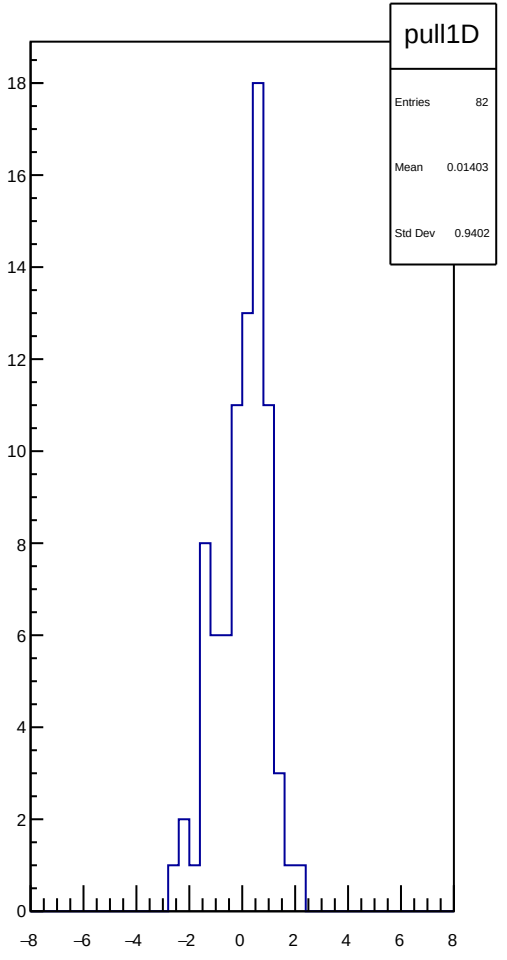

pull1D
Entries 82
Mean 0.0241
Std Dev 0.9002

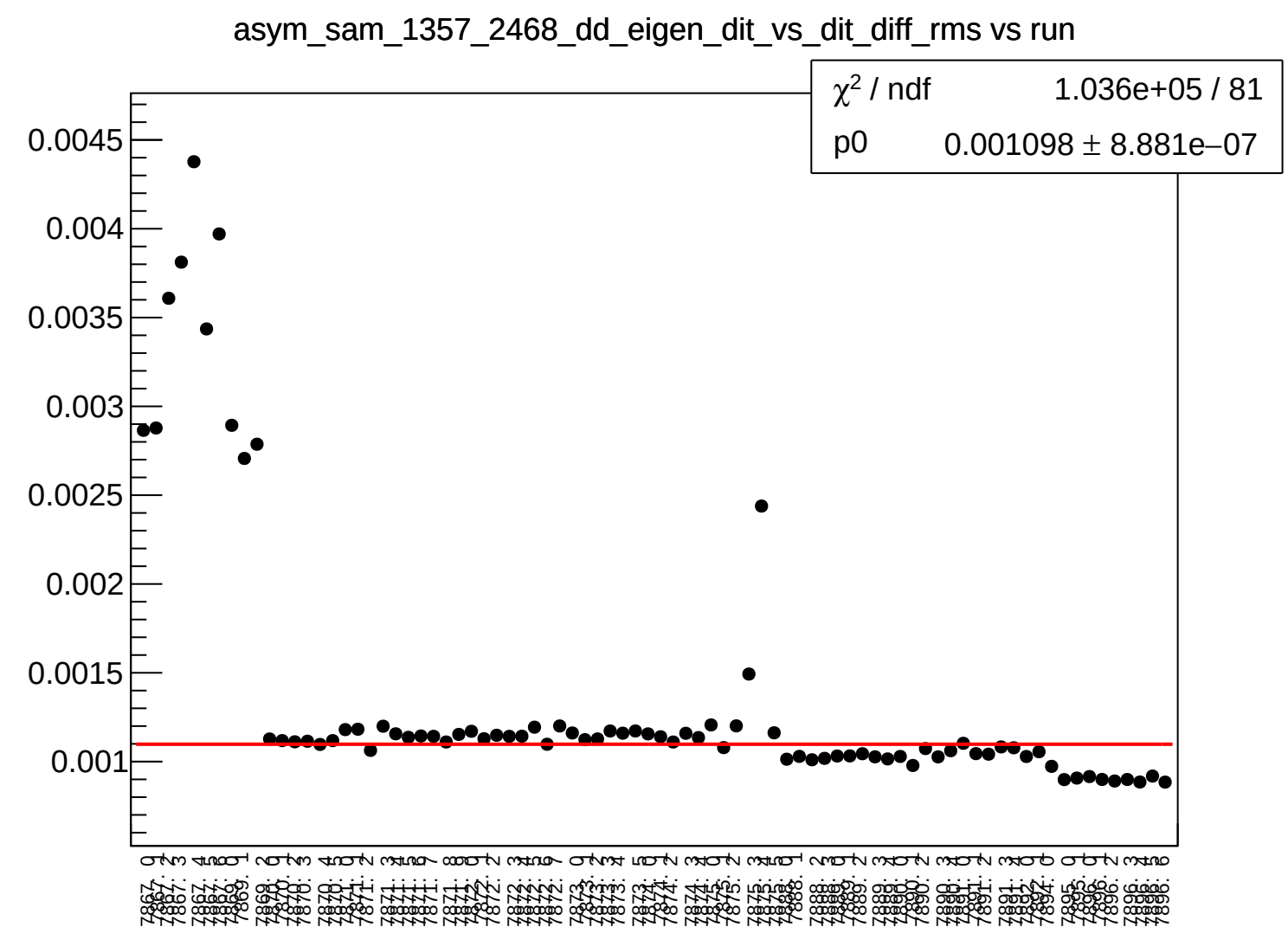

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 81
p0 22.16 ± 0.01815
90
80
70
60
50
40
30
20
10

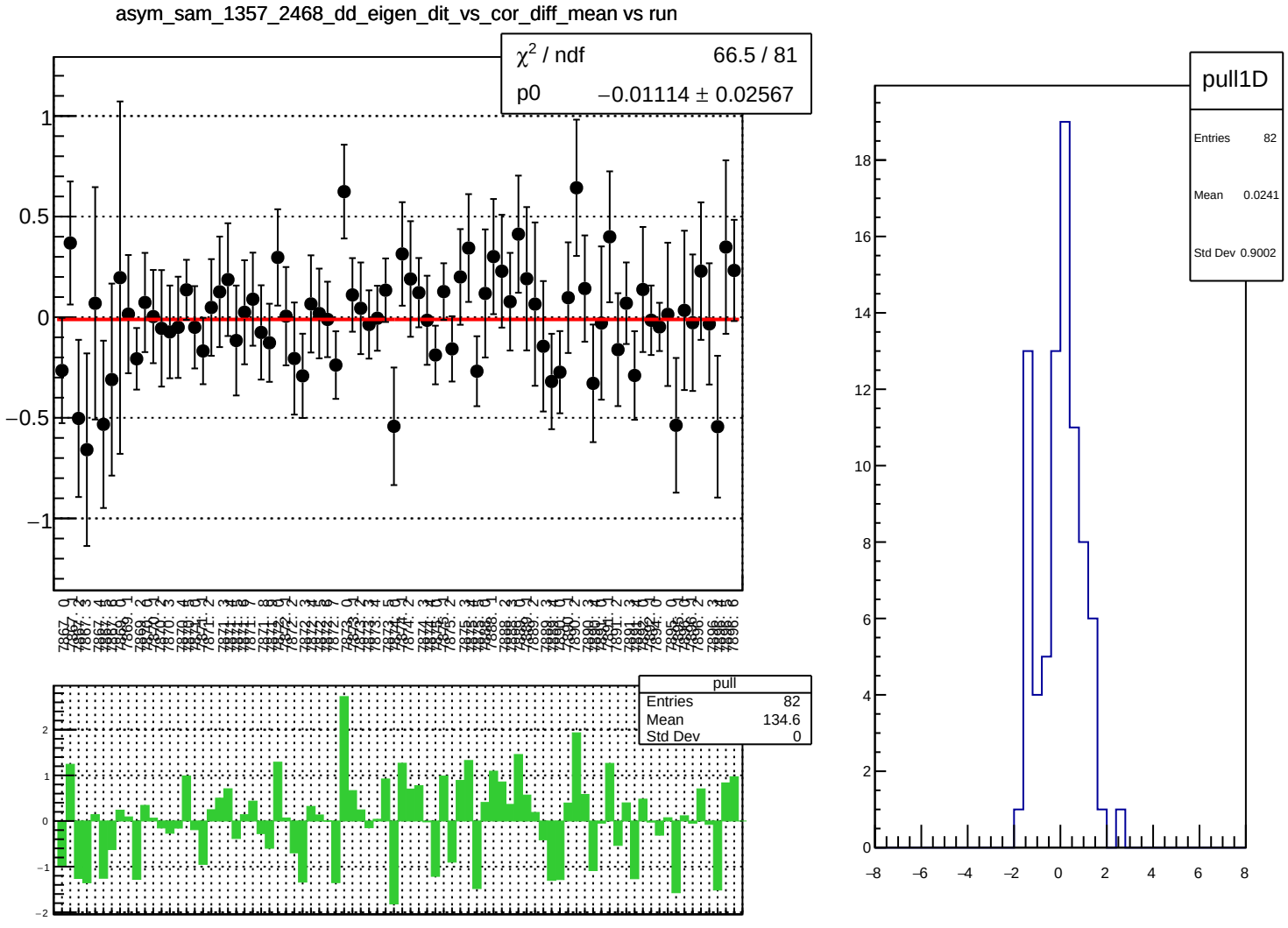

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.5 / 81
p0 −0.01115 ± 0.02567
pull
Entries 82
Mean 134.6
Std Dev 0
pull1D
Entries 82
Mean 0.0241
Std Dev 0.9002

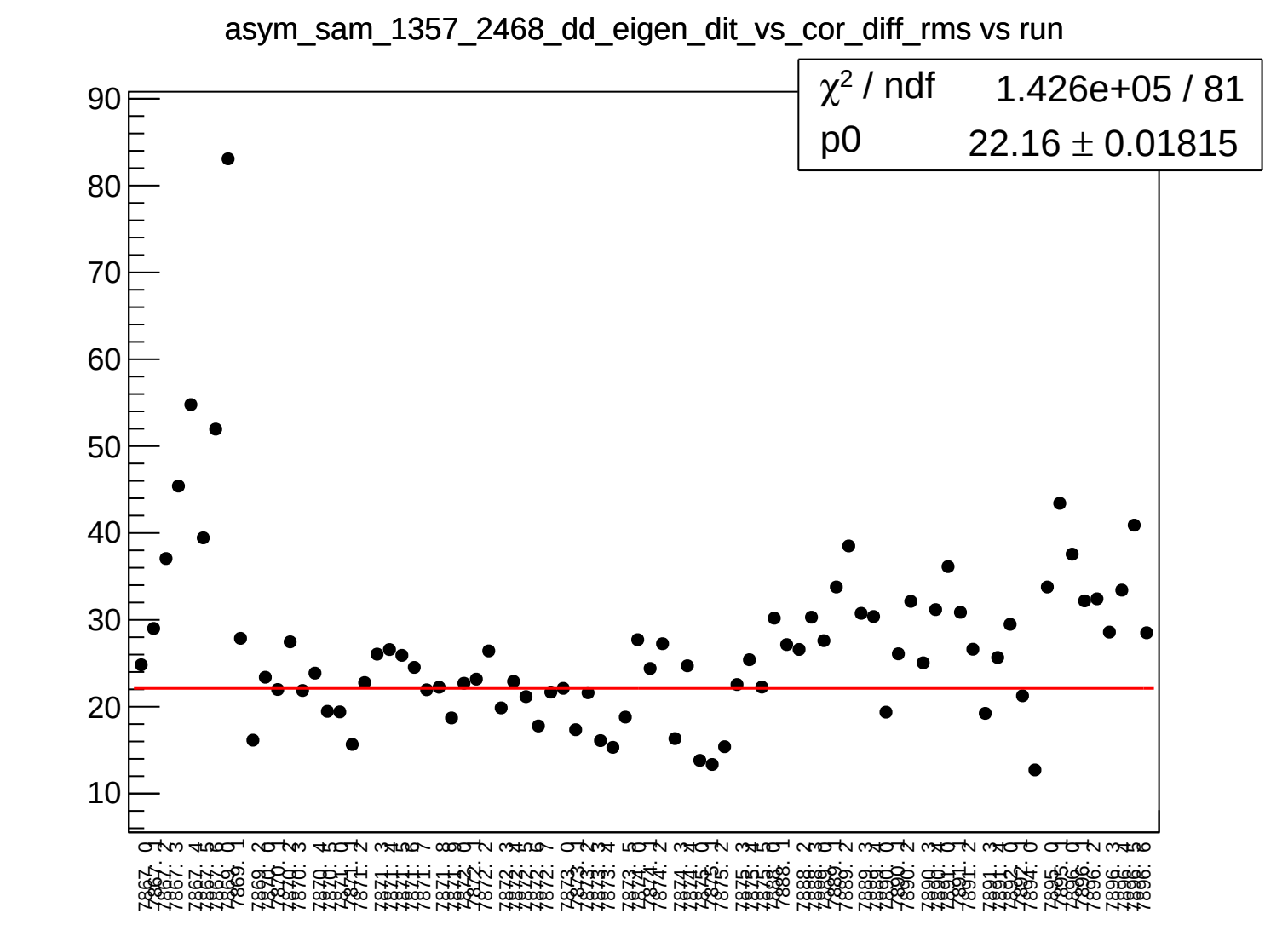

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 81
p0 22.16 ± 0.01815
90
80
70
60
50
40
30
20
10

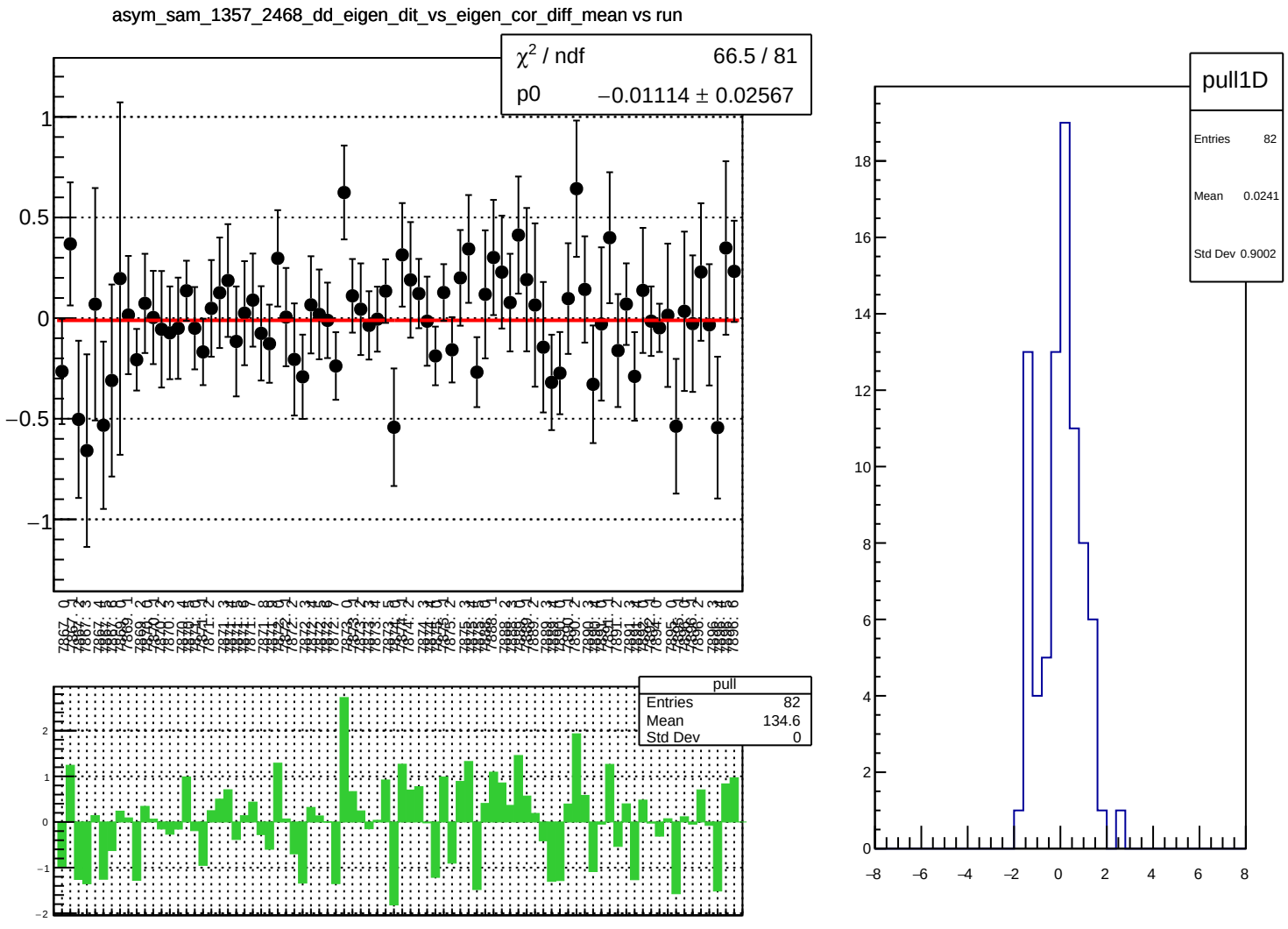

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.51 / 81
p0 7.115e−07 ± 1.256e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −34.34
Std Dev 0
2
1
0
−1
−2

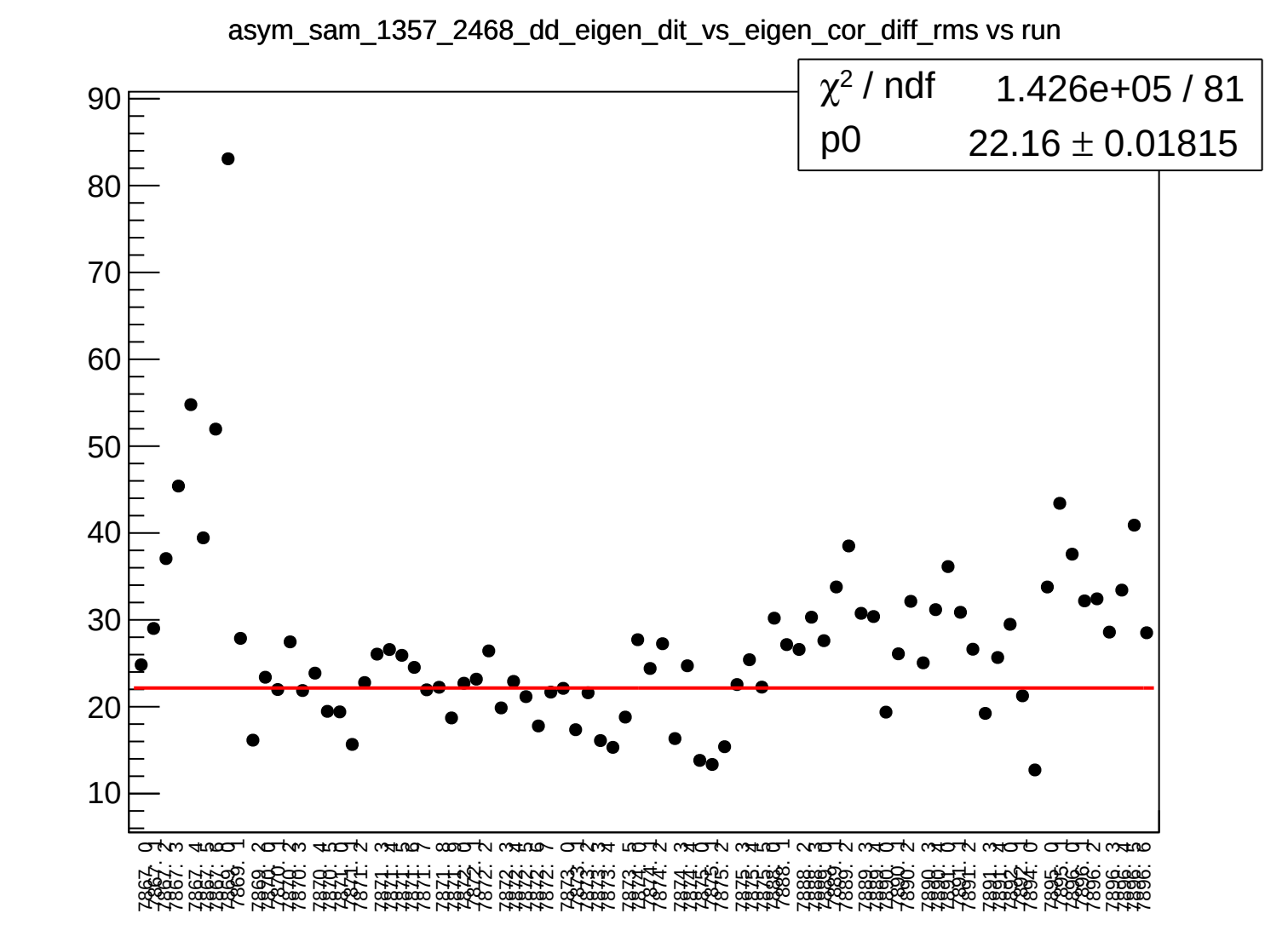

pull1D
Entries 82
Mean 0.01403
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

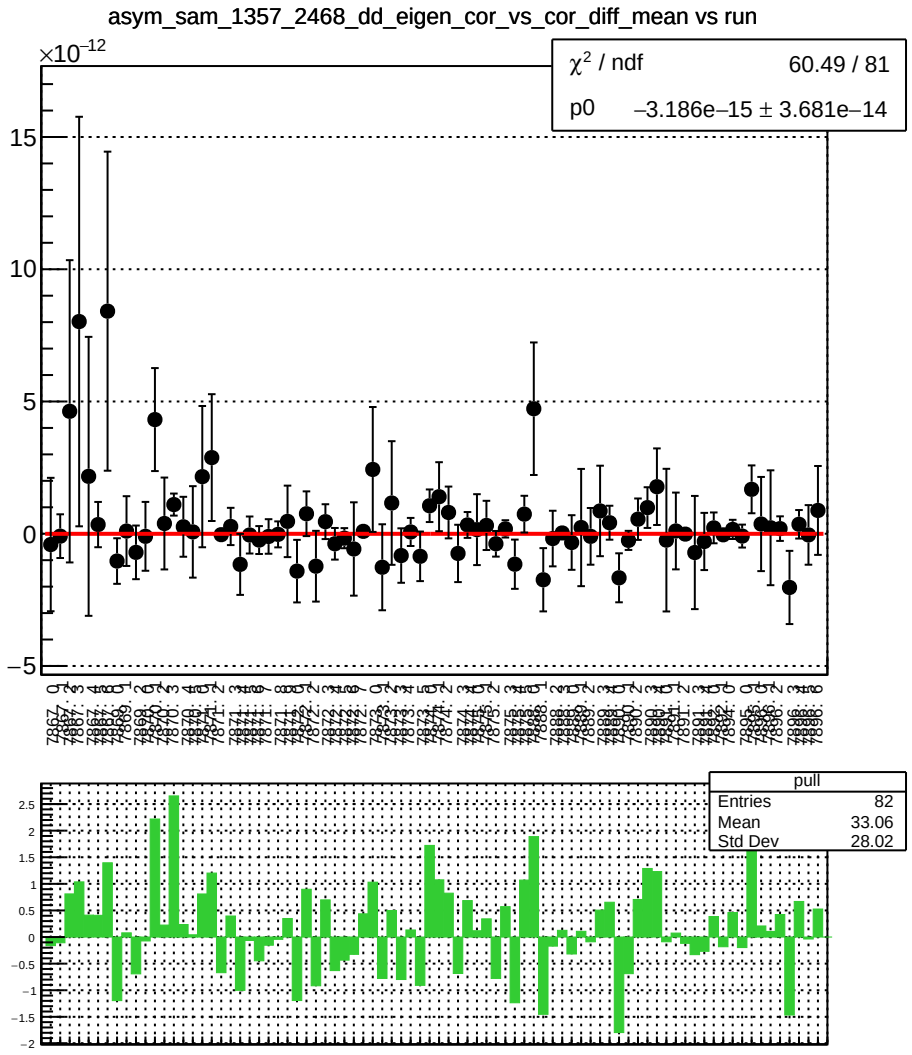

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.036e+05 / 81
p0 0.001098 ± 8.881e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

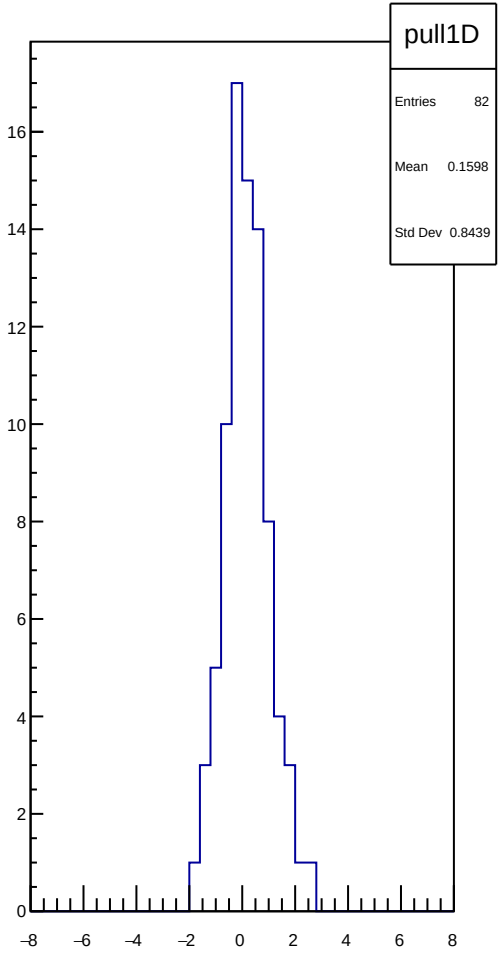

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.5 / 81
p0 −0.01114 ± 0.02567
pull
Entries 82
Mean 134.6
Std Dev 0
pull1D
Entries 82
Mean 0.0241
Std Dev 0.9002

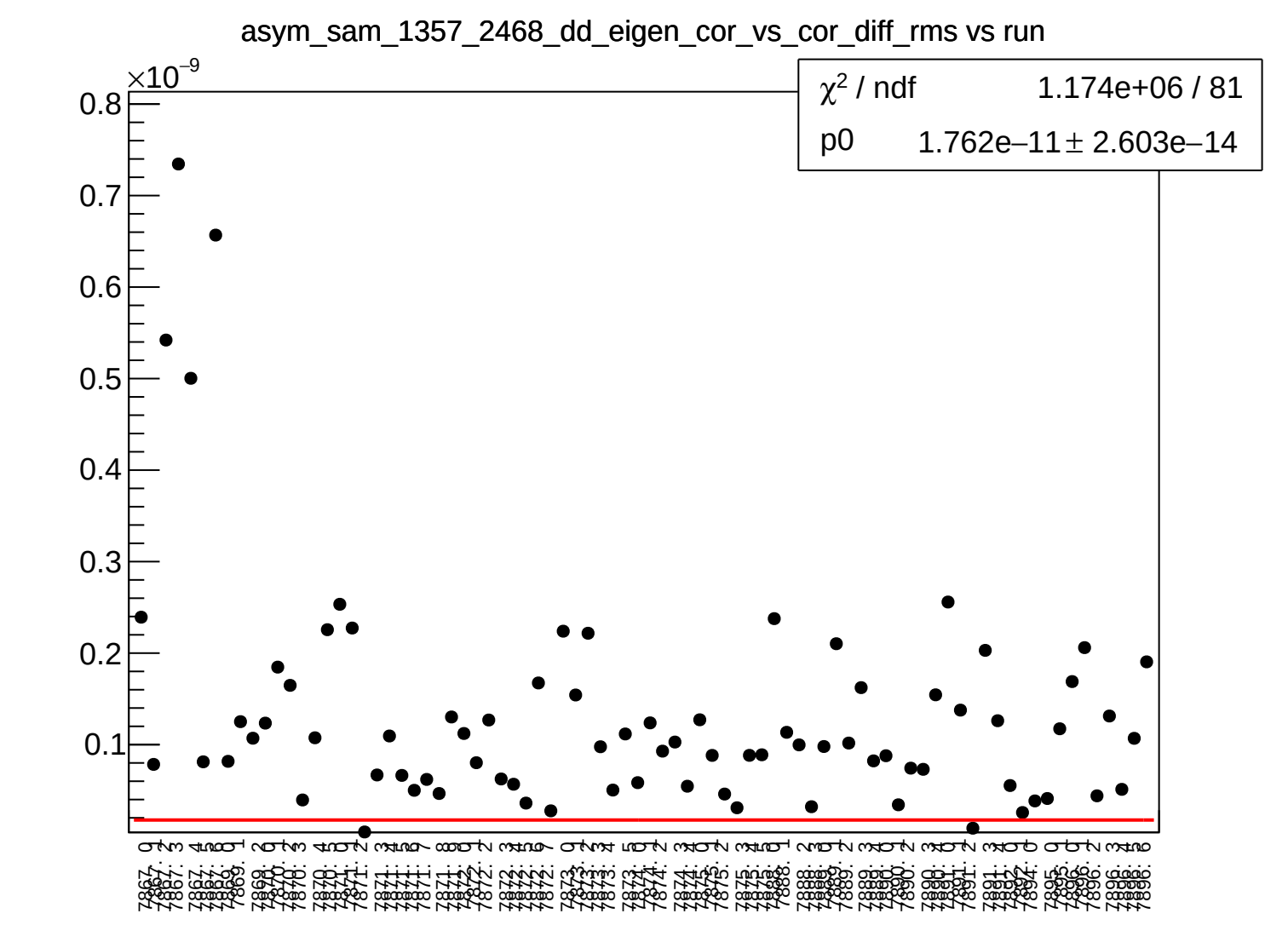

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 81
p0 22.16 ± 0.01815
90
80
70
60
50
40
30
20
10

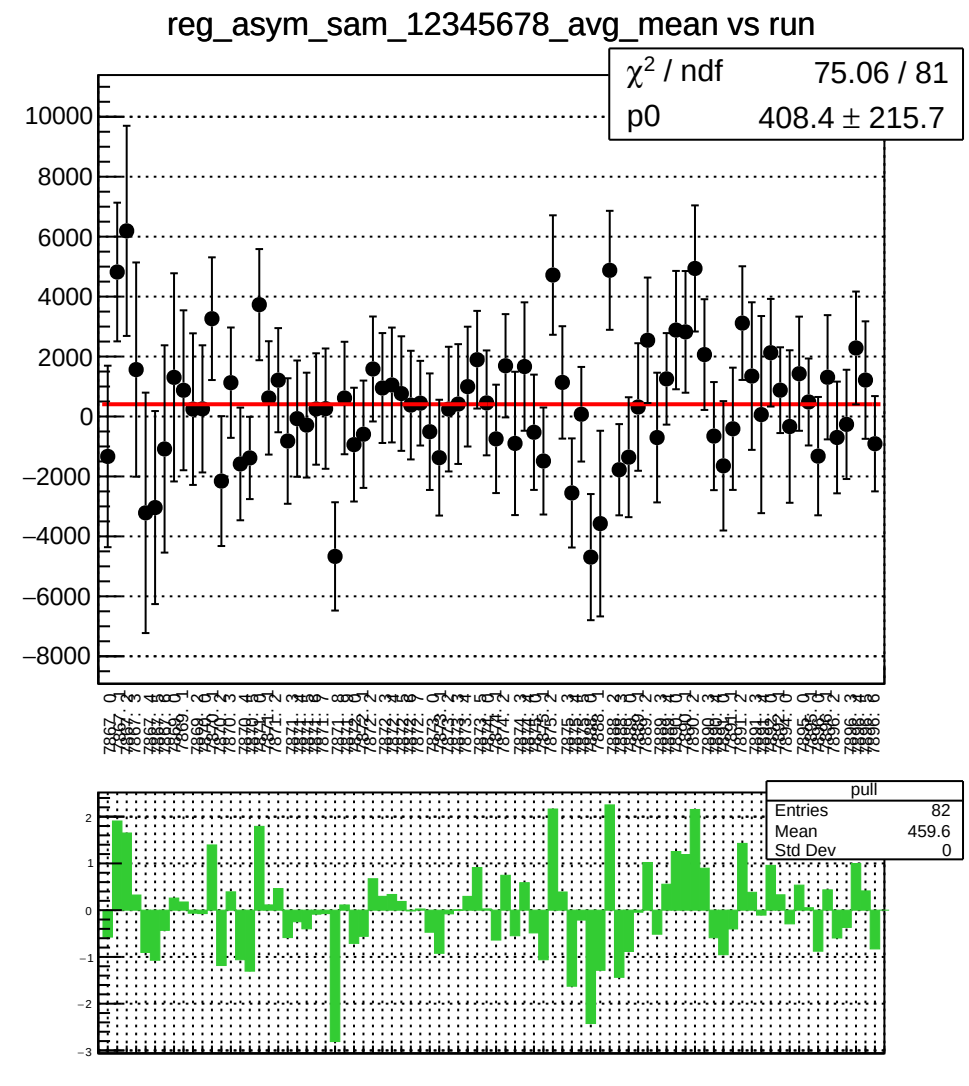

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.5 / 81
p0 −0.01114 ± 0.02567
pull
Entries 82
Mean 134.6
Std Dev 0
pull1D
Entries 82
Mean 0.0241
Std Dev 0.9002

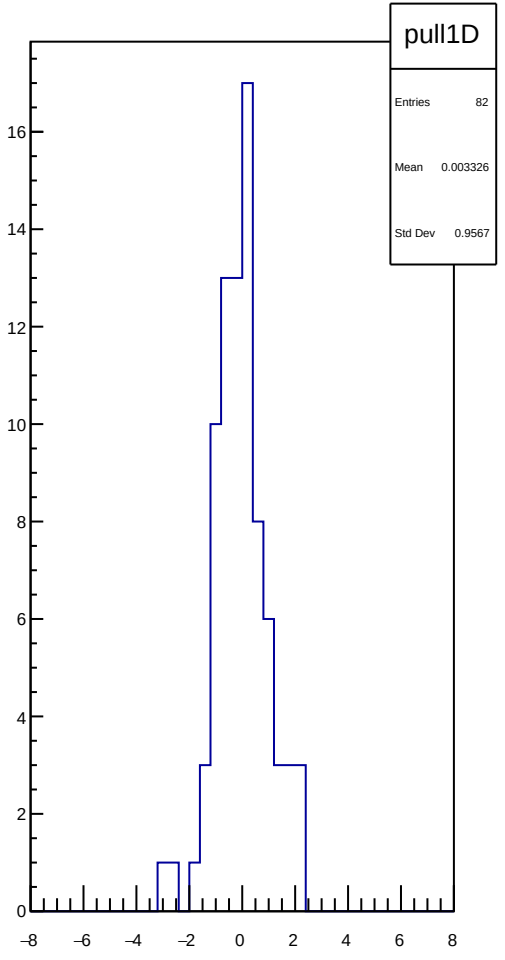

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 81
p0 22.16 ± 0.01815
90
80
70
60
50
40
30
20
10

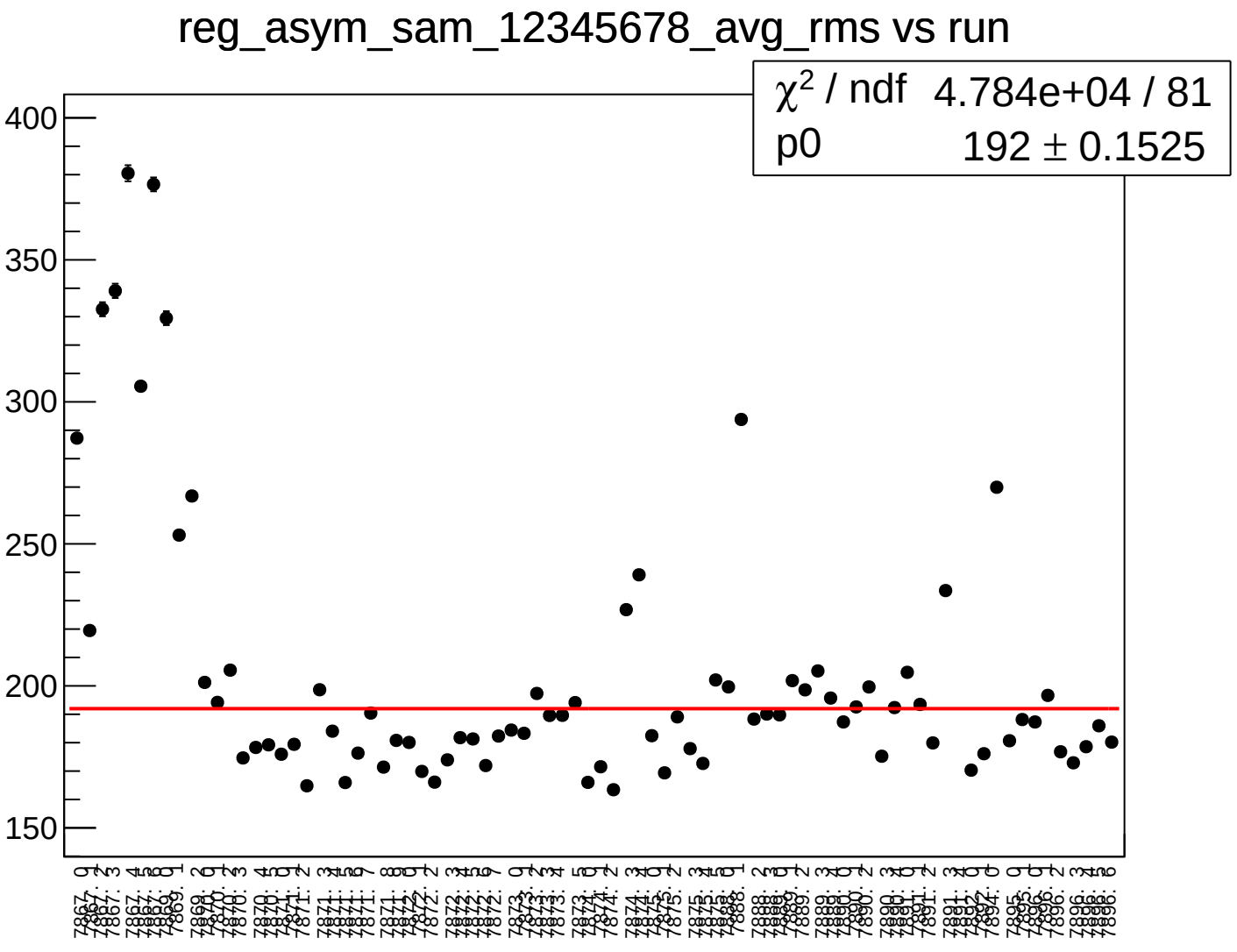

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.49 / 81
p0 −3.186e−15 ± 3.681e−14
pull
Entries 82
Mean 33.06
Std Dev 28.02

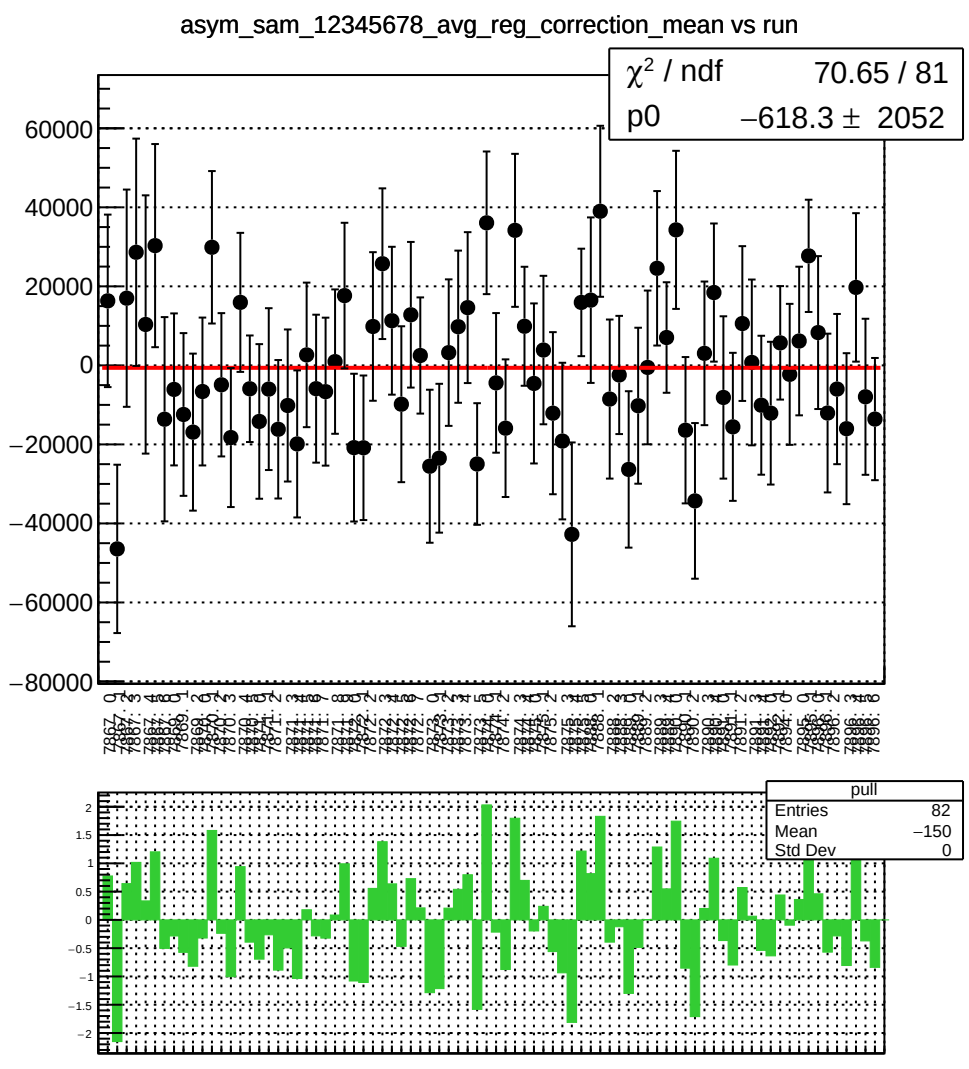

pull1D
Entries 82
Mean 0.1598
Std Dev 0.8439

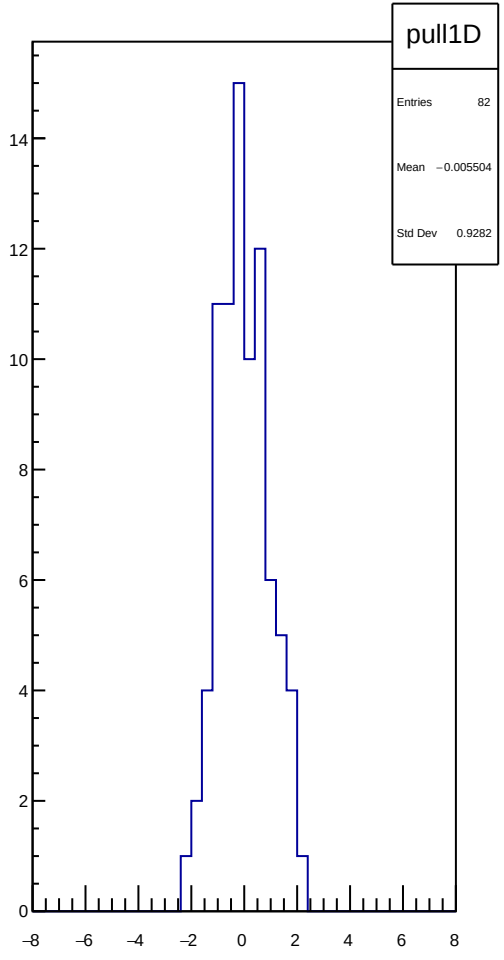

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.174e+06 / 81
p0 1.762e−11 ± 2.603e−14

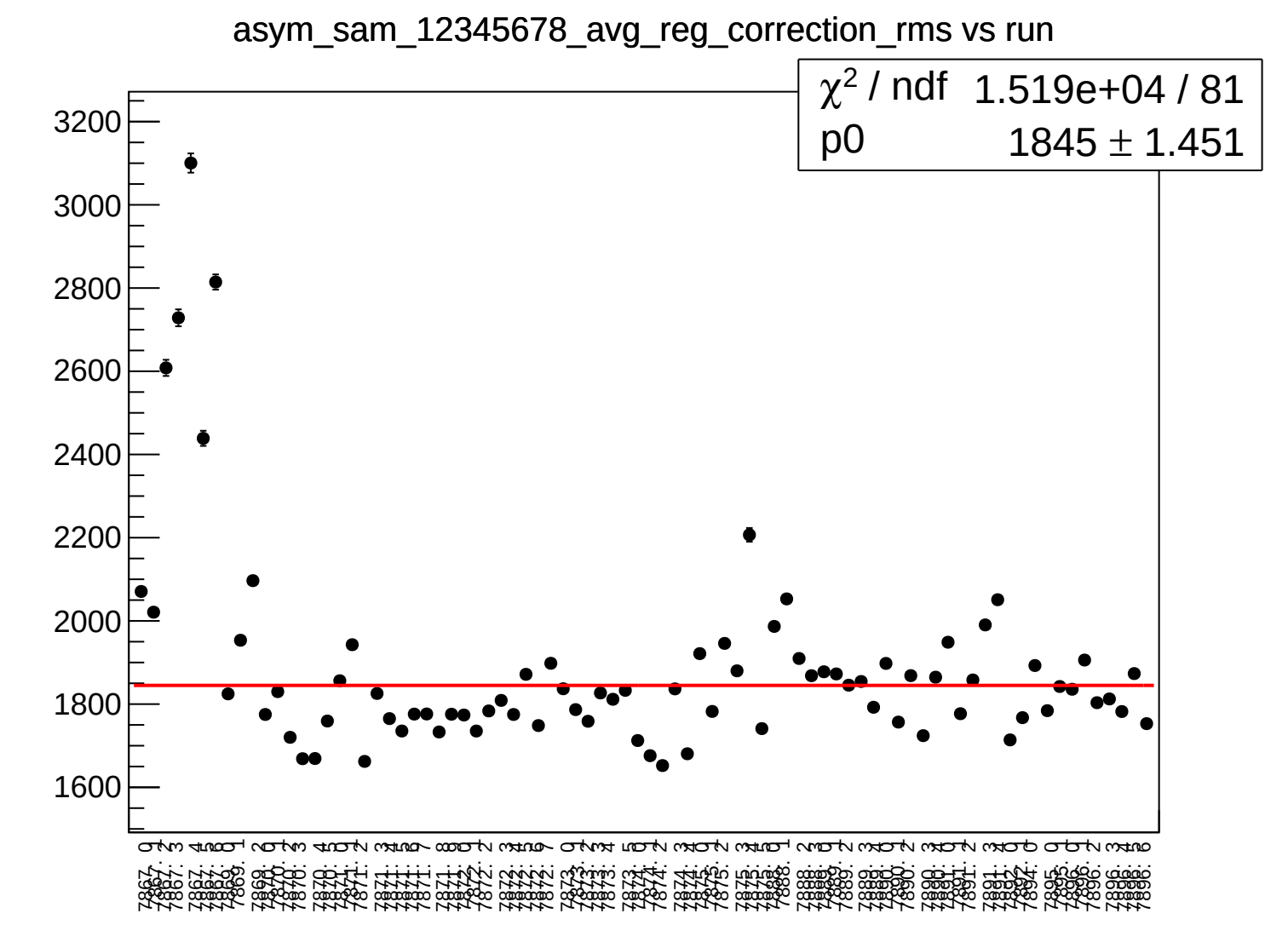

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.06 / 81
p0 408.4 ± 215.7
pull
Entries 82
Mean 459.6
Std Dev 0

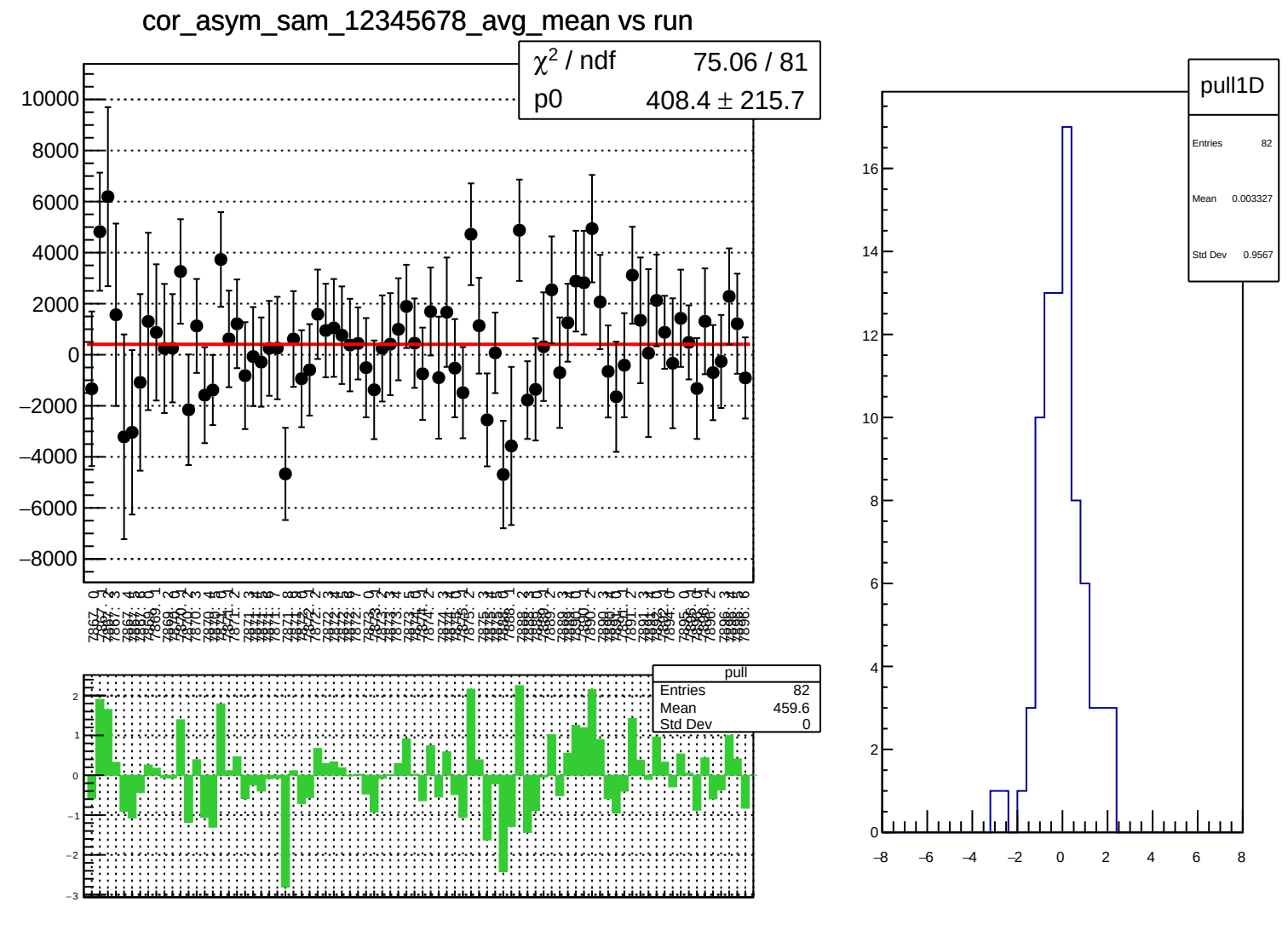

pull1D
Entries 82
Mean 0.003326
Std Dev 0.9567

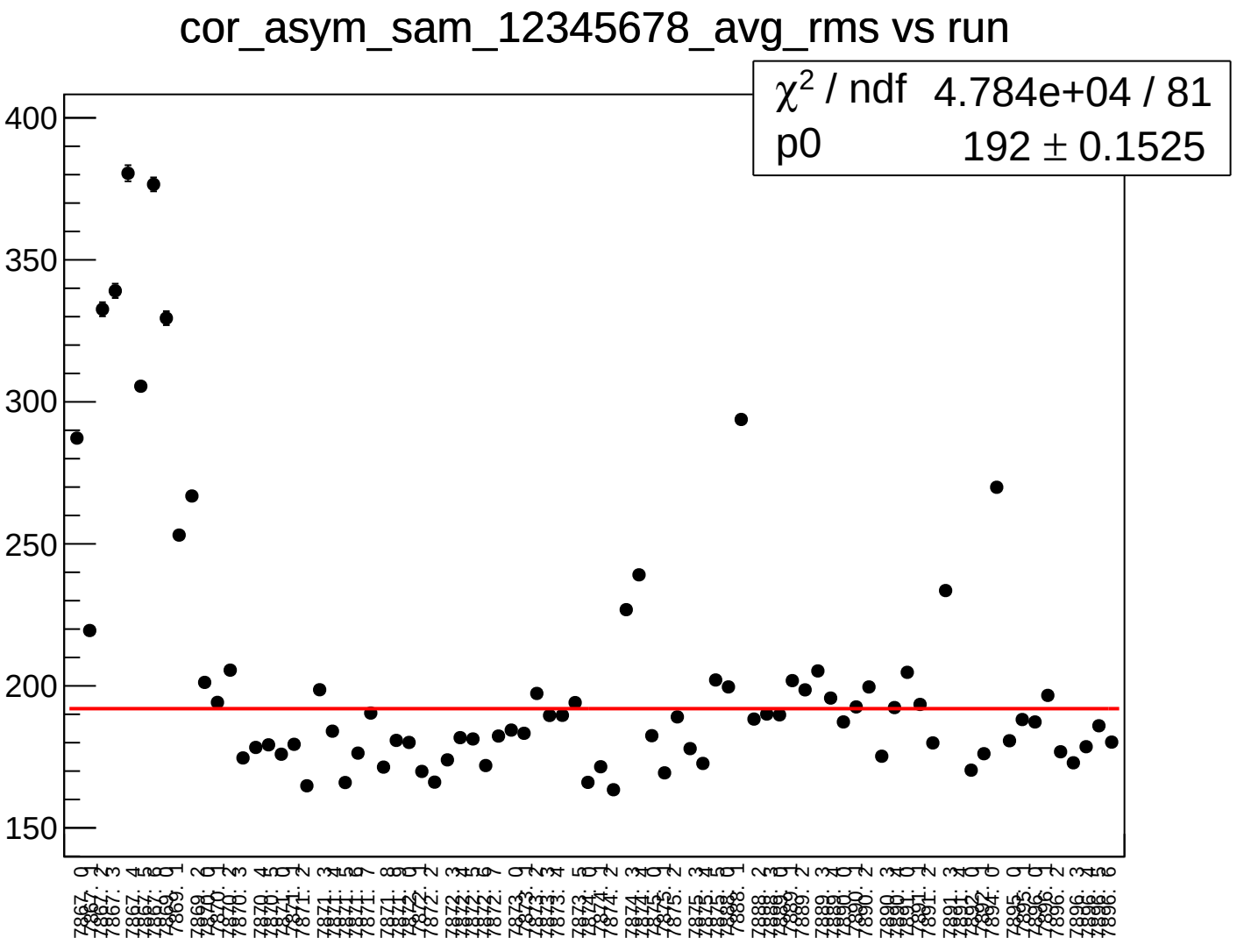

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.784e+04 / 81
p0 192 ± 0.1525
400
350
300
250
200
150

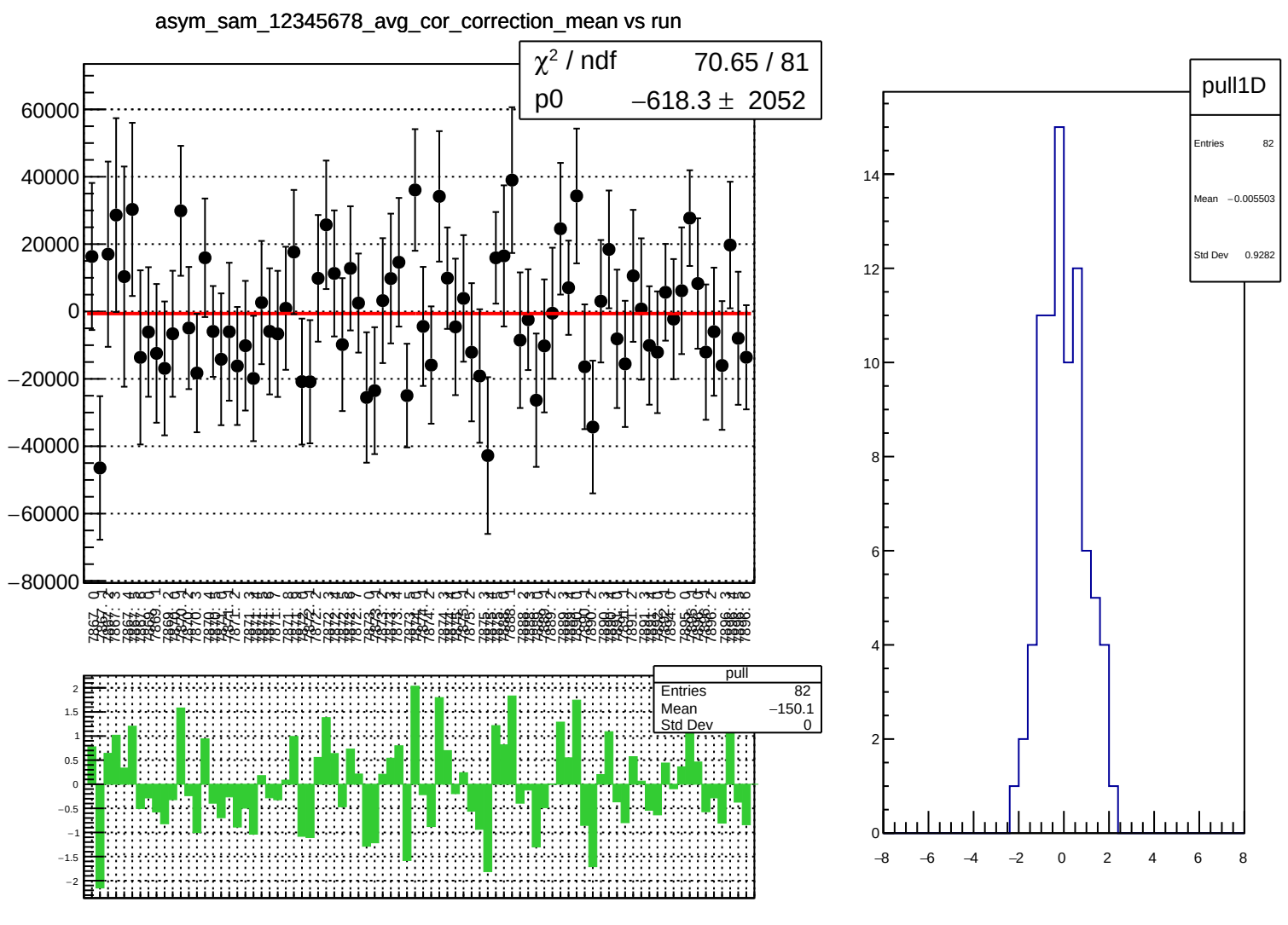

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 70.65 / 81
p0 −618.3 ± 2052
pull
Entries 82
Mean −150
Std Dev 0

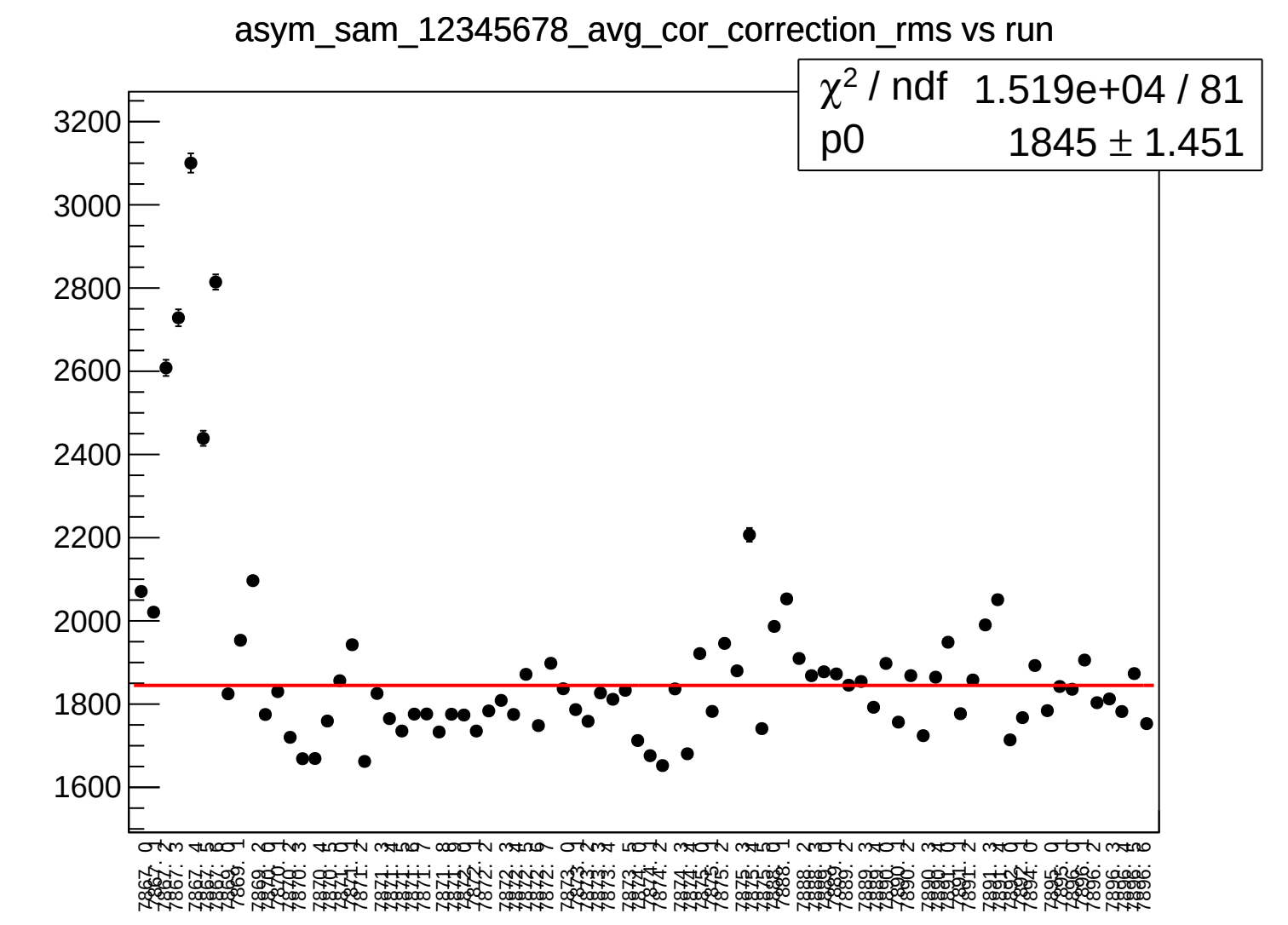

pull1D
Entries 82
Mean −0.005504
Std Dev 0.9282

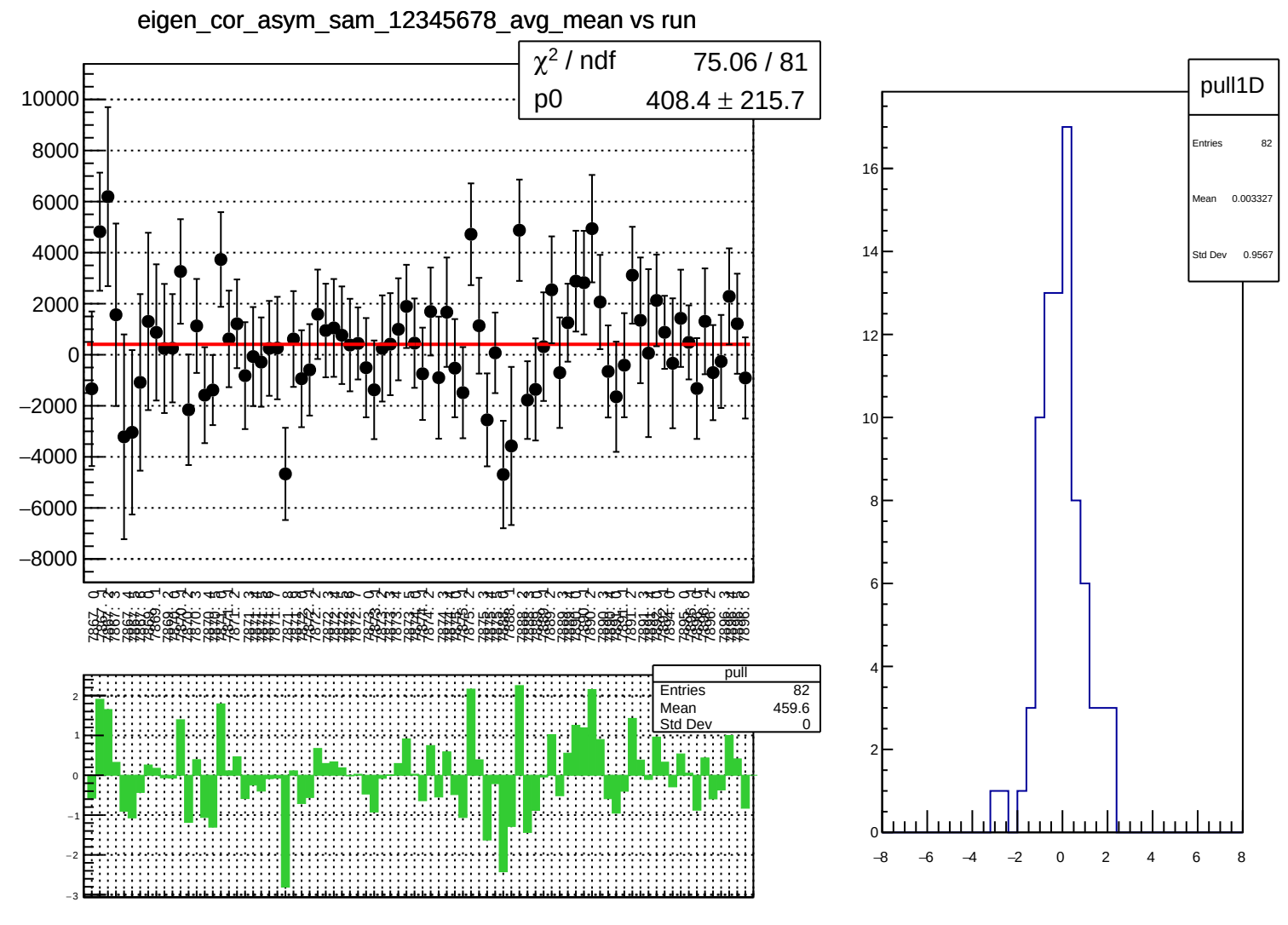

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.519e+04 / 81
p0 1845 ± 1.451
3200
3000
2800
2600
2400
2200
2000
1800
1600

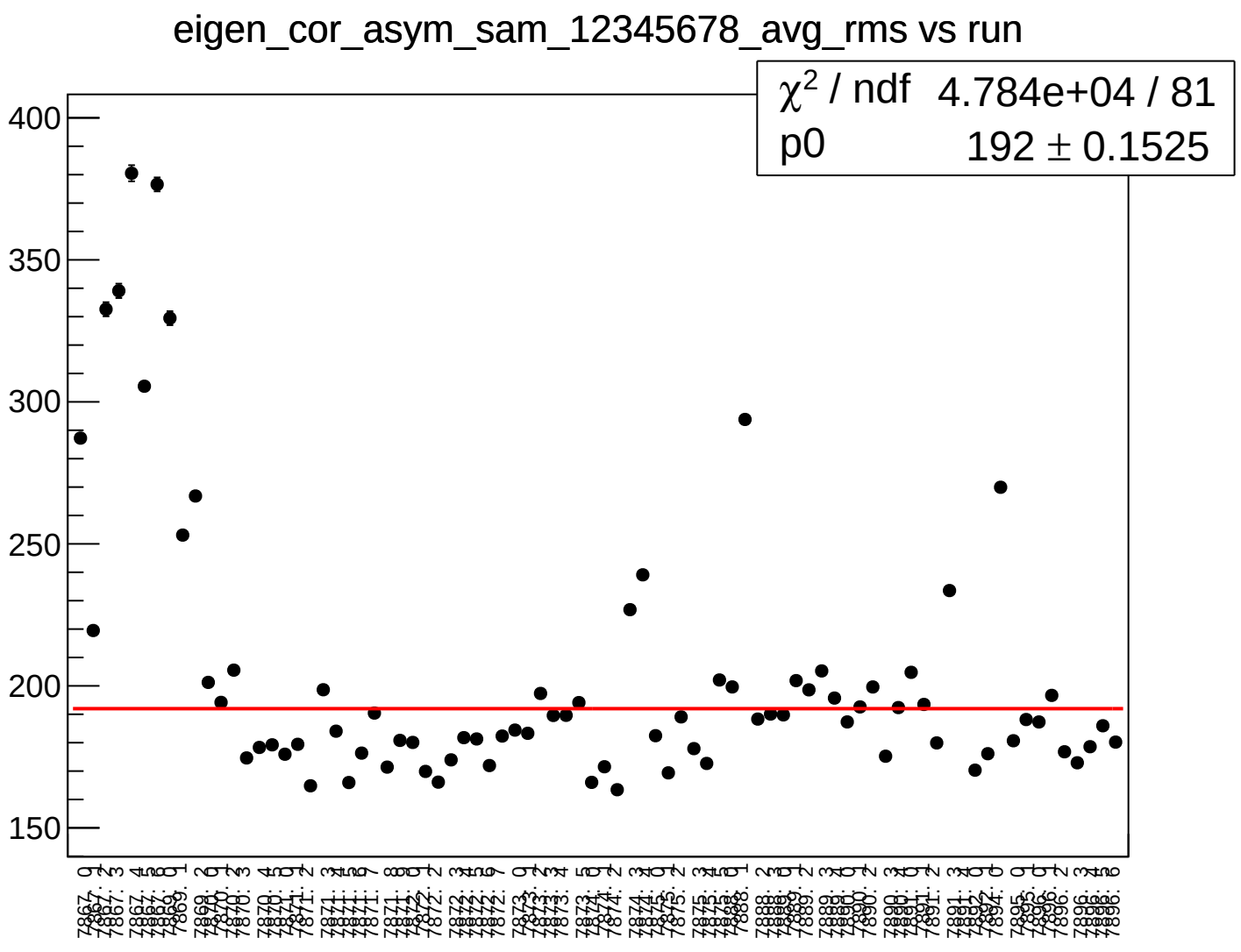

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.06 / 81
p0 408.4 ± 215.7
pull
Entries 82
Mean 459.6
Std Dev 0
pull1D
Entries 82
Mean 0.003327
Std Dev 0.9567

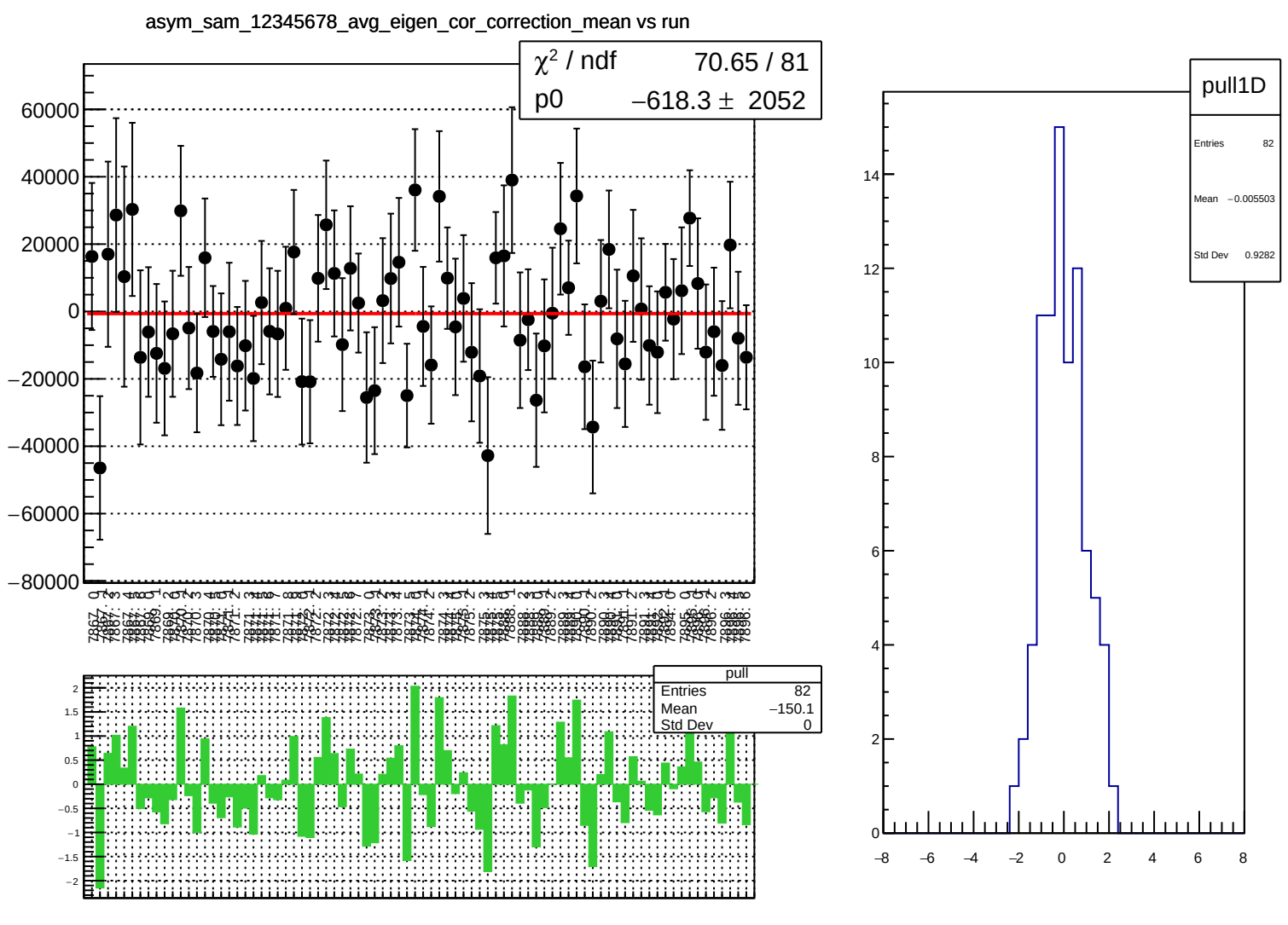

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.784e+04 / 81
p0 192 ± 0.1525
400
350
300
250
200
150

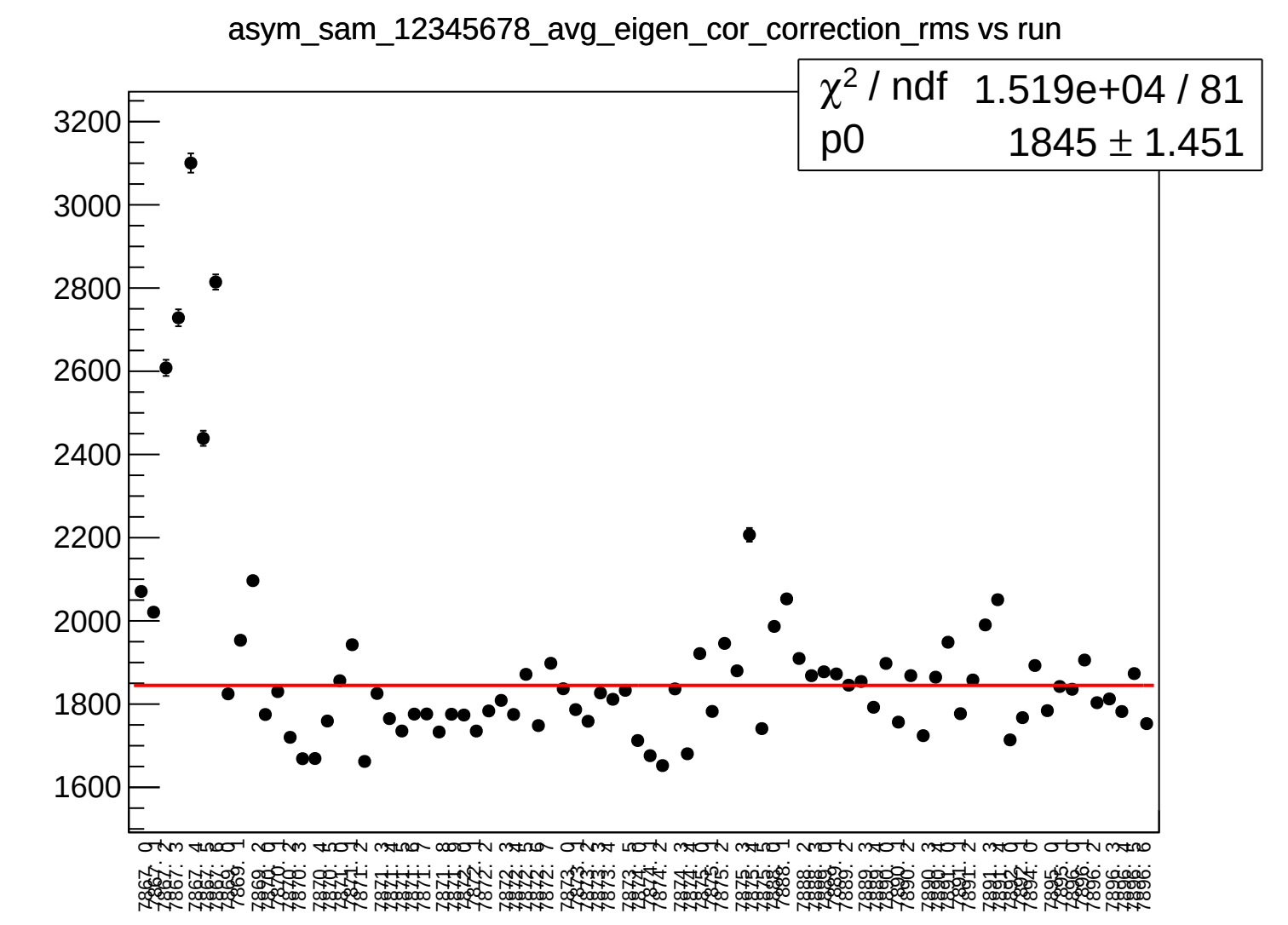

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 70.65 / 81
p0 −618.3 ± 2052
pull
Entries 82
Mean −150.1
Std Dev 0
pull1D
Entries 82
Mean −0.005503
Std Dev 0.9282

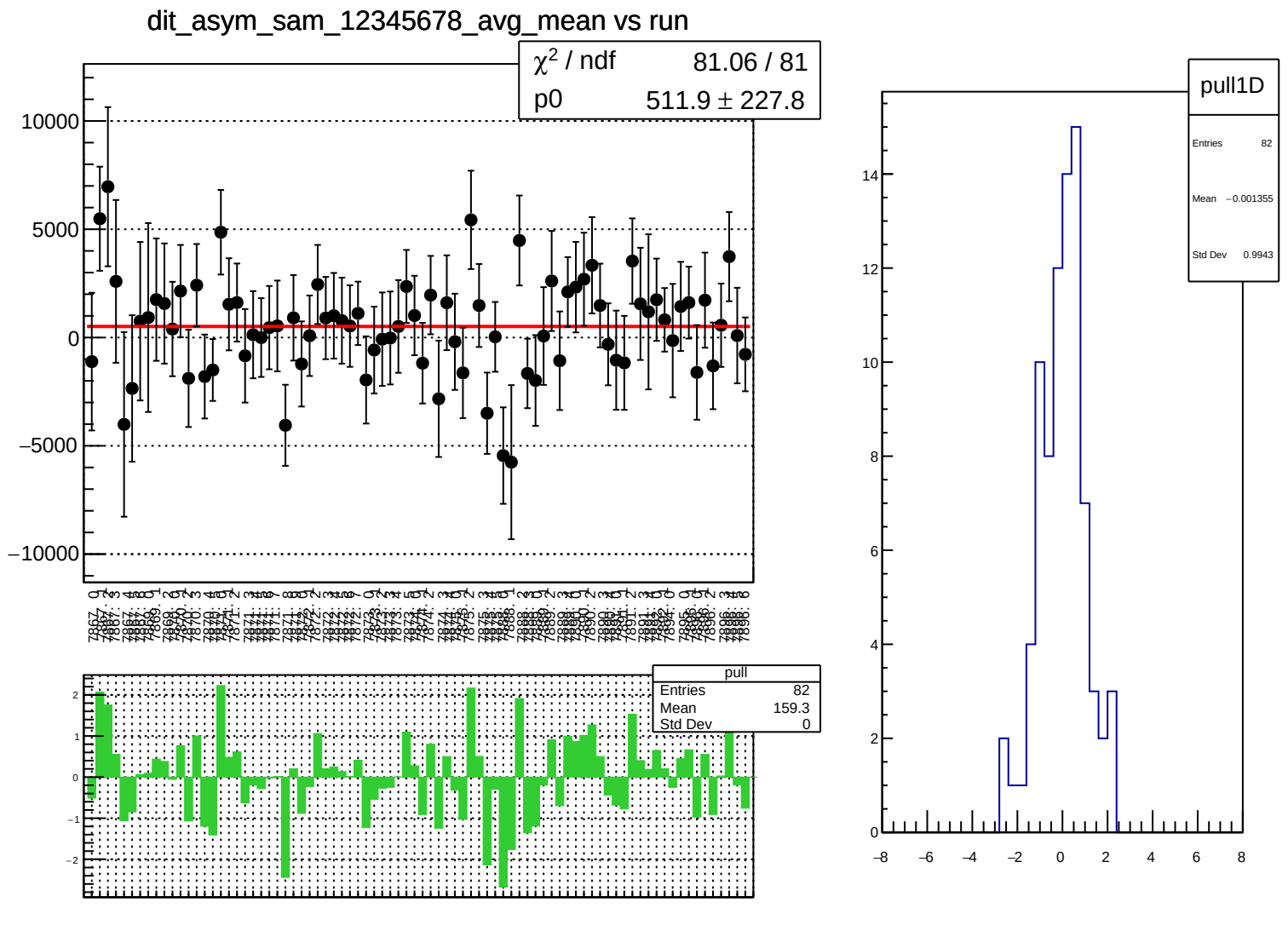

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.519e+04 / 81
p0 1845 ± 1.451
3200
3000
2800
2600
2400
2200
2000
1800
1600

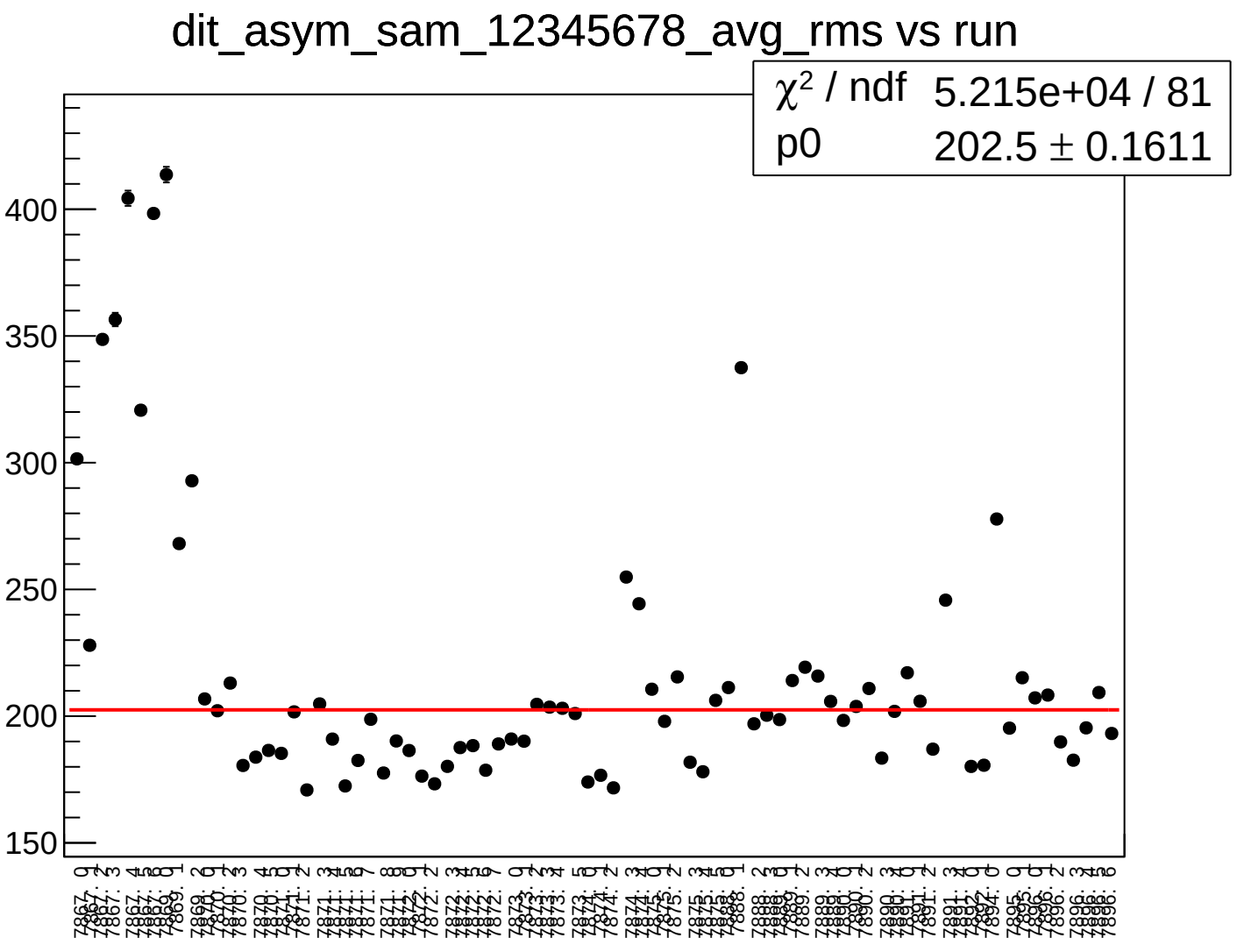

eigen_cor_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 75.06 / 81
p0 408.4 ± 215.7
pull
Entries 82
Mean 459.6
Std Dev 0
pull1D
Entries 82
Mean 0.003327
Std Dev 0.9567

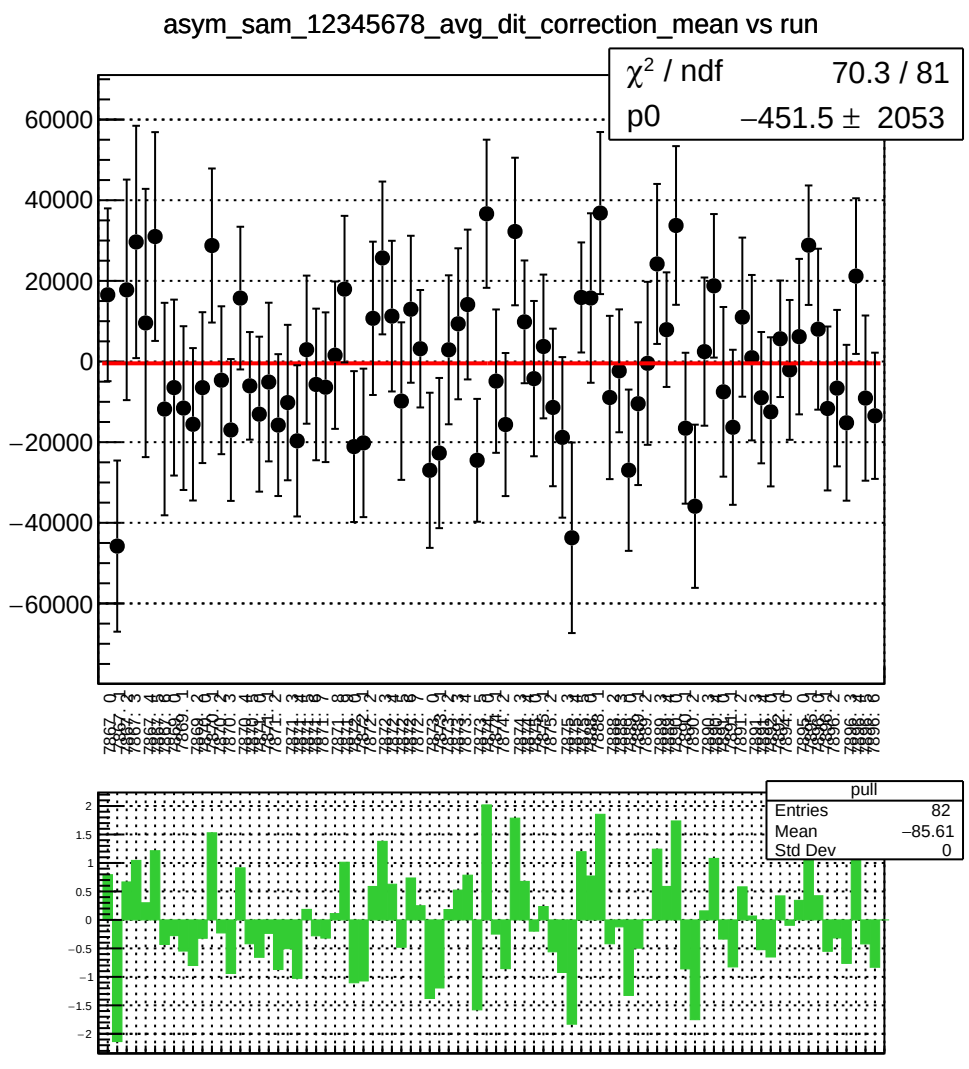

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.784e+04 / 81
p0 192 ± 0.1525
400
350
300
250
200
150

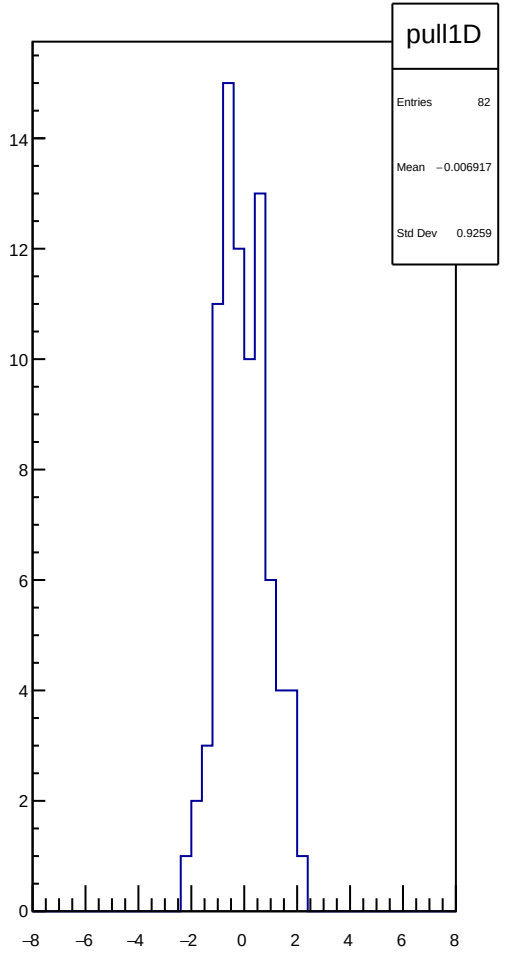

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.65 / 81
p0 −618.3 ± 2052
pull
Entries 82
Mean −150.1
Std Dev 0
pull1D
Entries 82
Mean −0.005503
Std Dev 0.9282

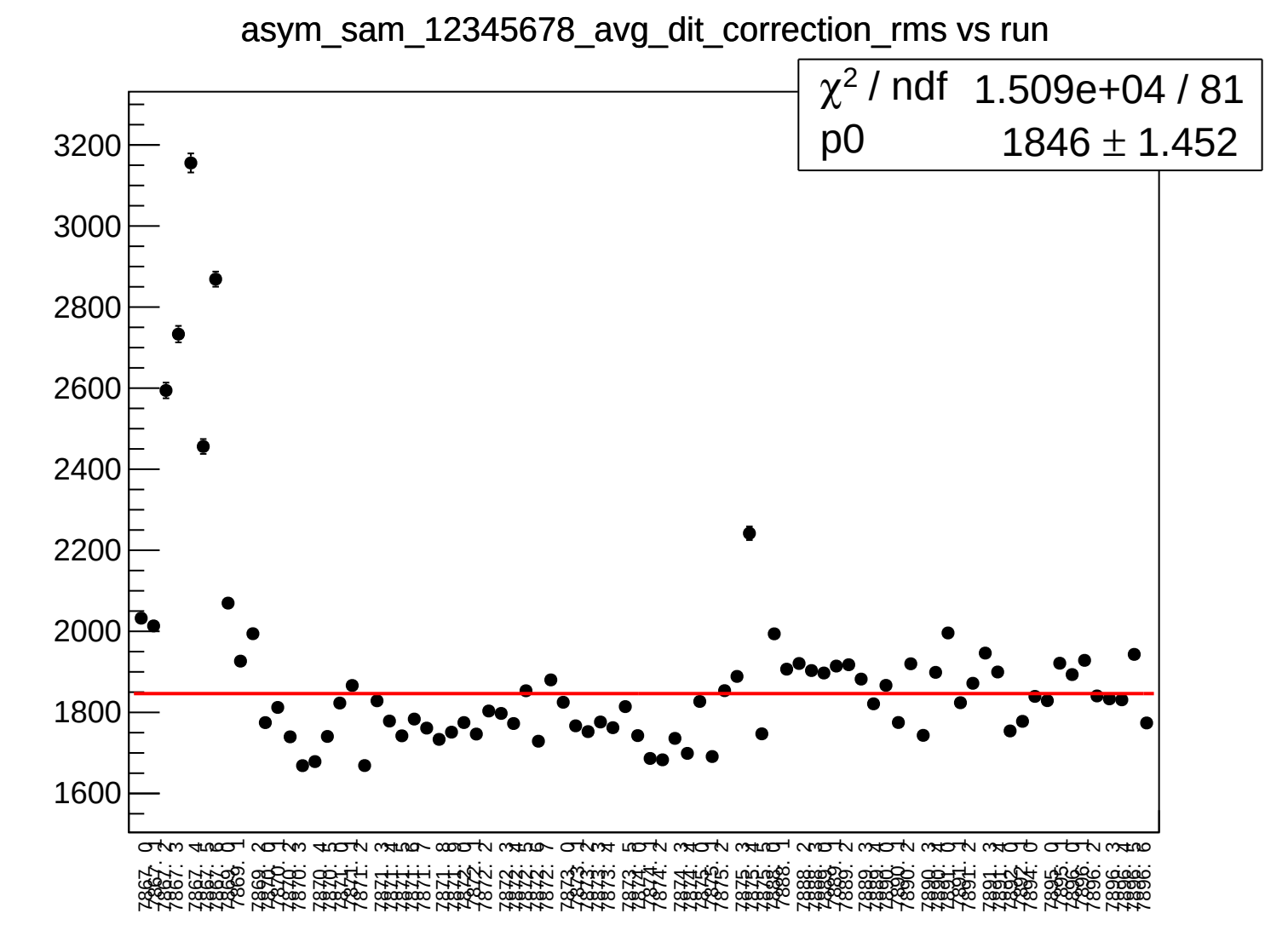

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.519e+04 / 81
p0 1845 ± 1.451
3200
3000
2800
2600
2400
2200
2000
1800
1600

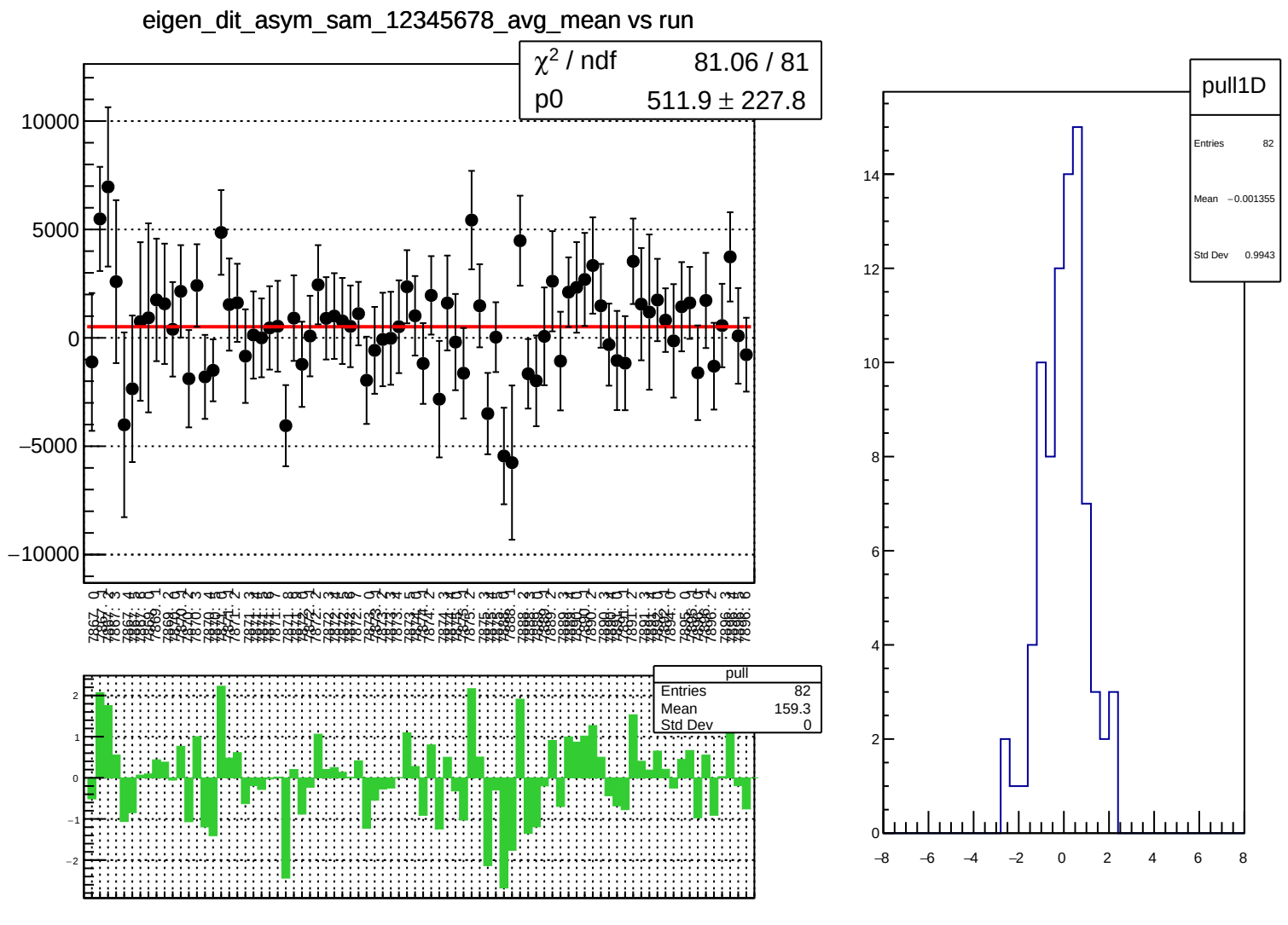

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.06 / 81
p0 511.9 ± 227.8
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 159.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.001355
Std Dev 0.9943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

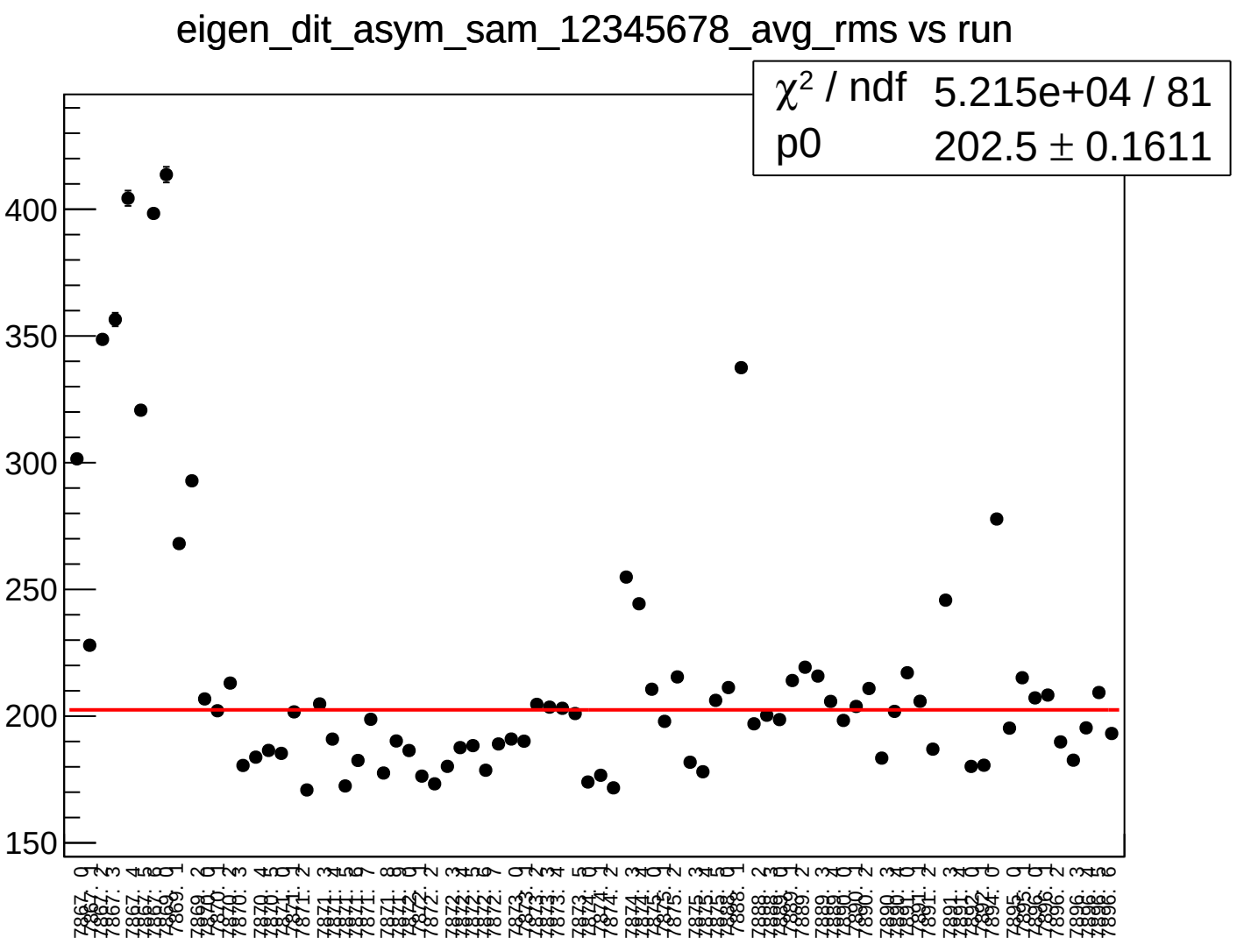

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.215e+04 / 81
p0 202.5 ± 0.1611
400
350
300
250
200
150

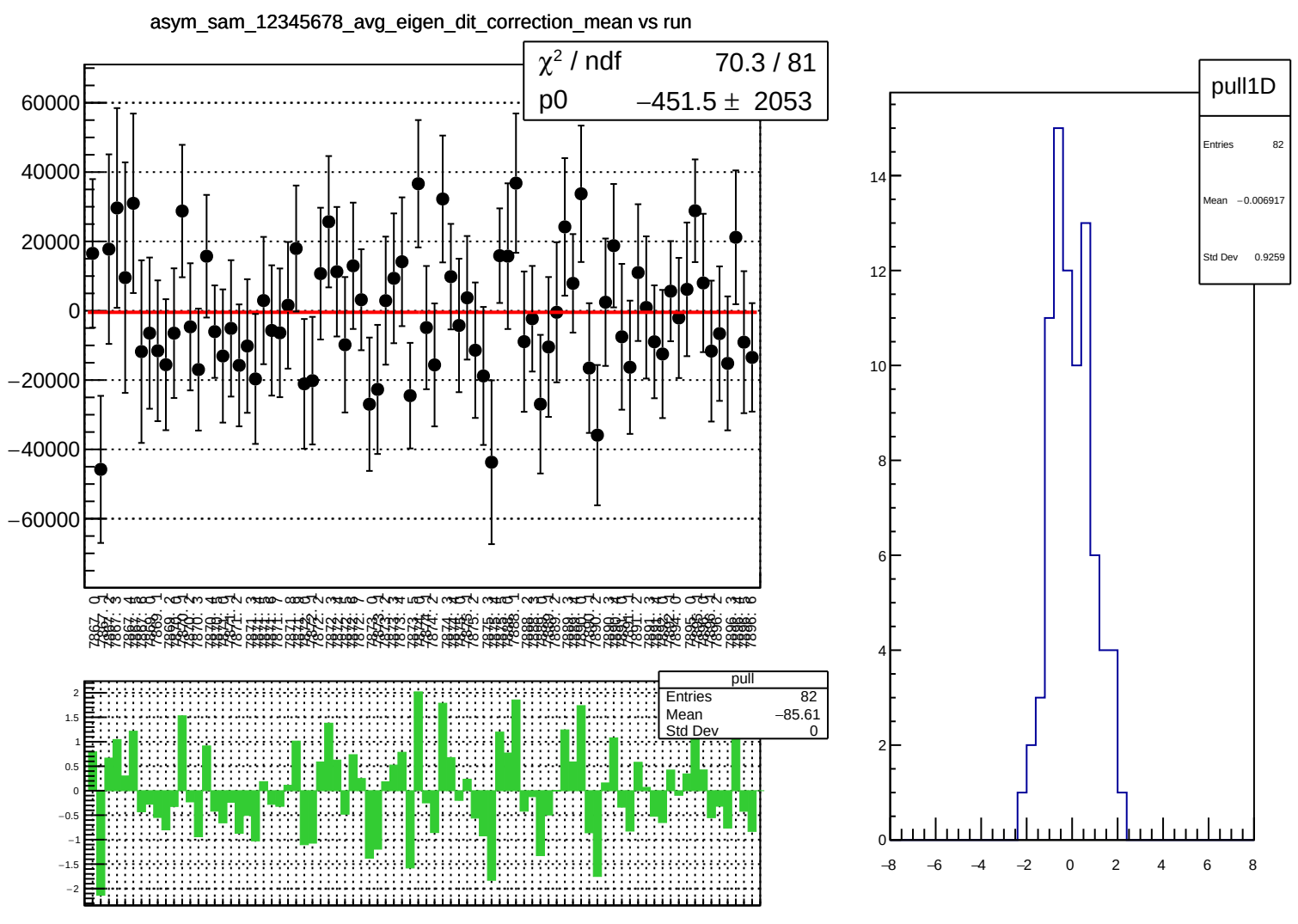

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 70.3 / 81
p0 −451.5 ± 2053
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −85.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

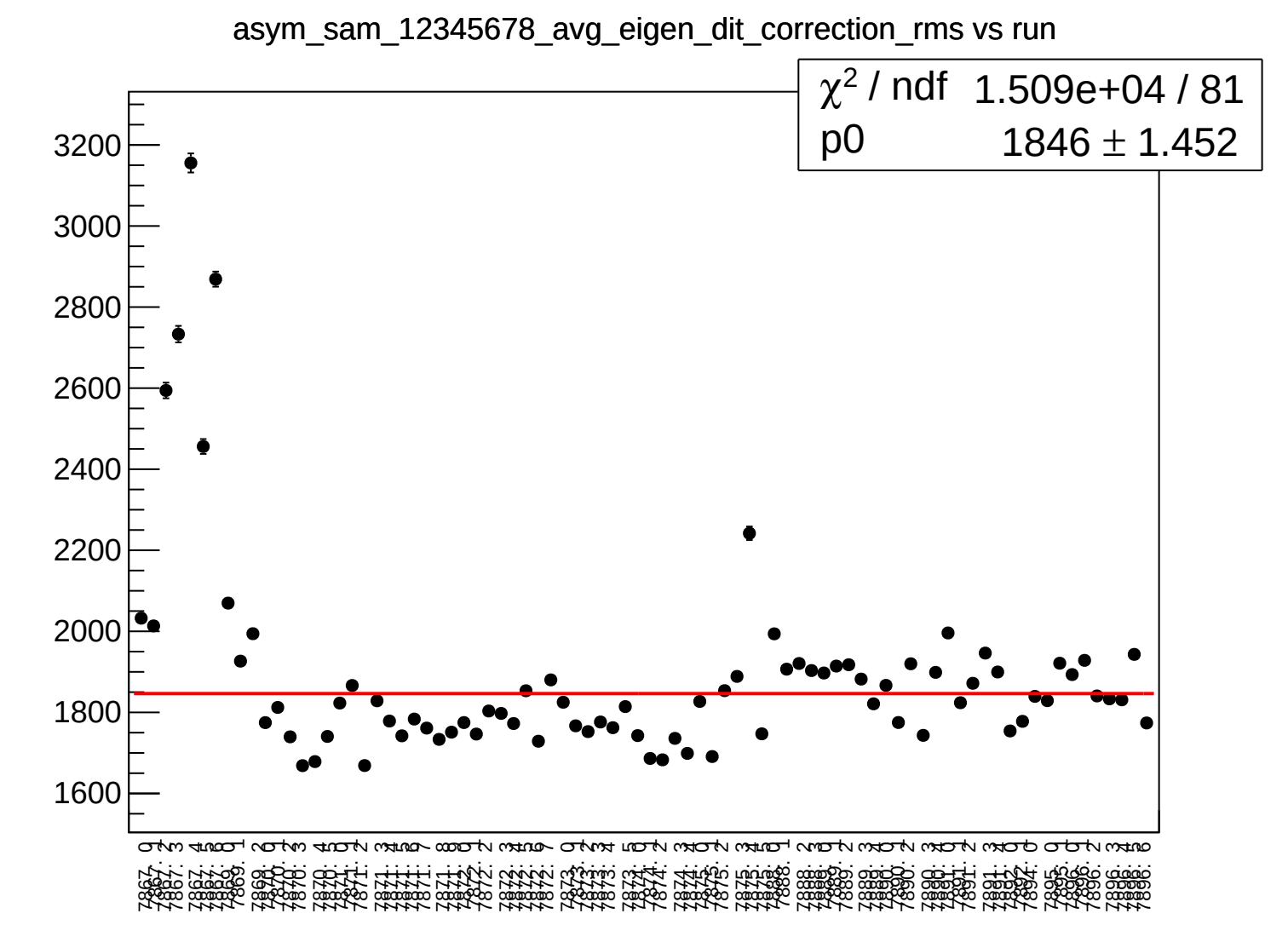

pull1D
Entries 82
Mean −0.006917
Std Dev 0.9259
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

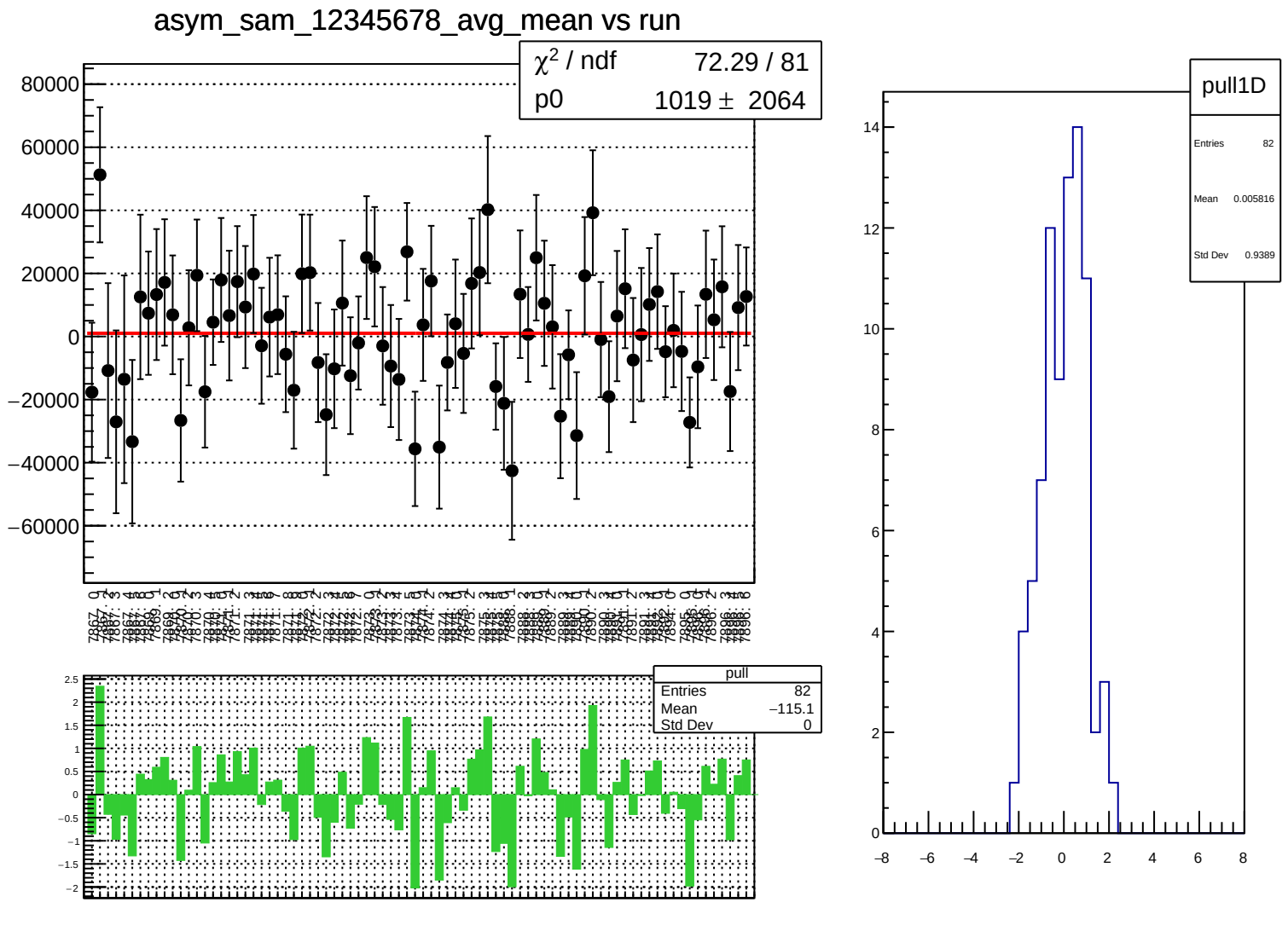

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.509e+04 / 81
p0 1846 ± 1.452
3200
3000
2800
2600
2400
2200
2000
1800
1600

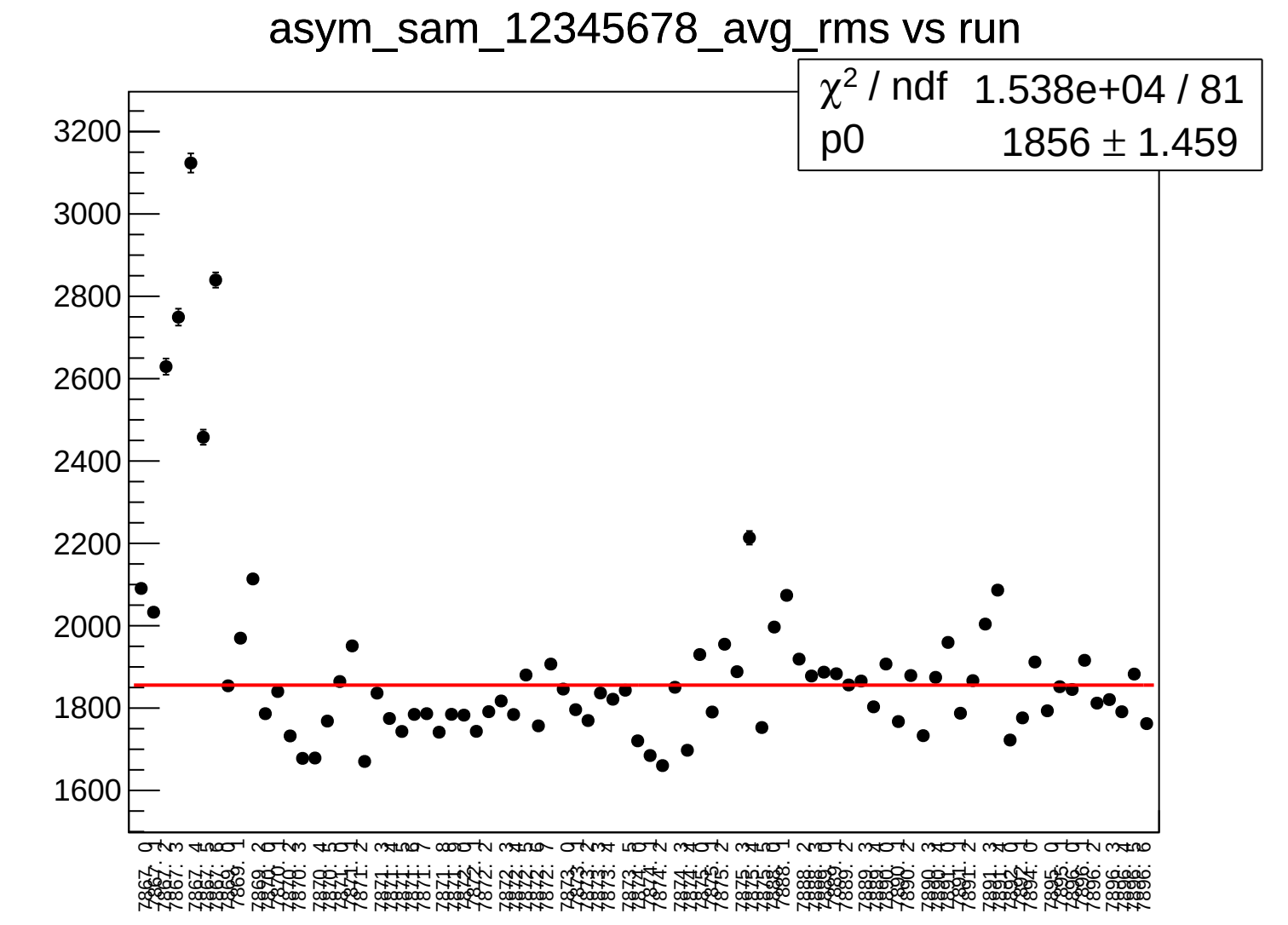

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.06 / 81
p0 511.9 ± 227.8
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 159.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.001355
Std Dev 0.9943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

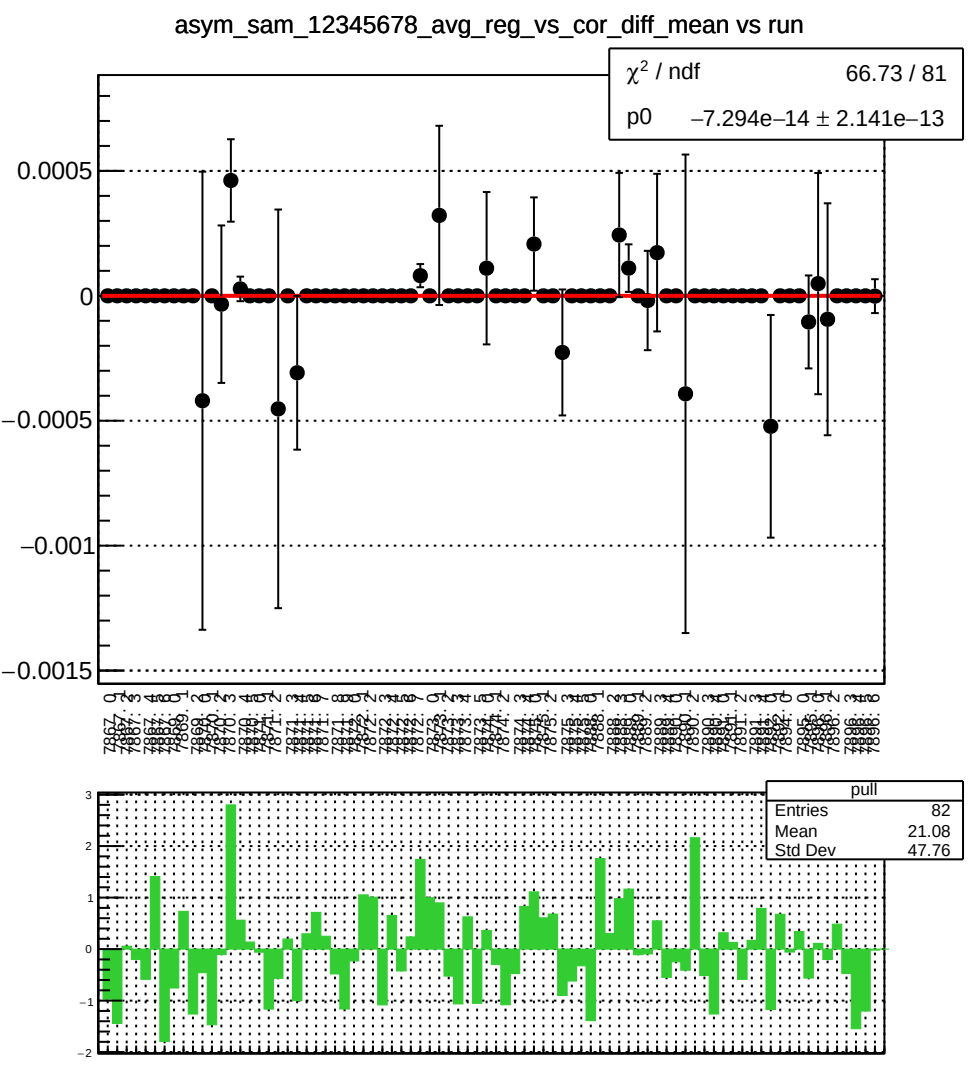

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.215e+04 / 81
p0 202.5 ± 0.1611
400
350
300
250
200
150

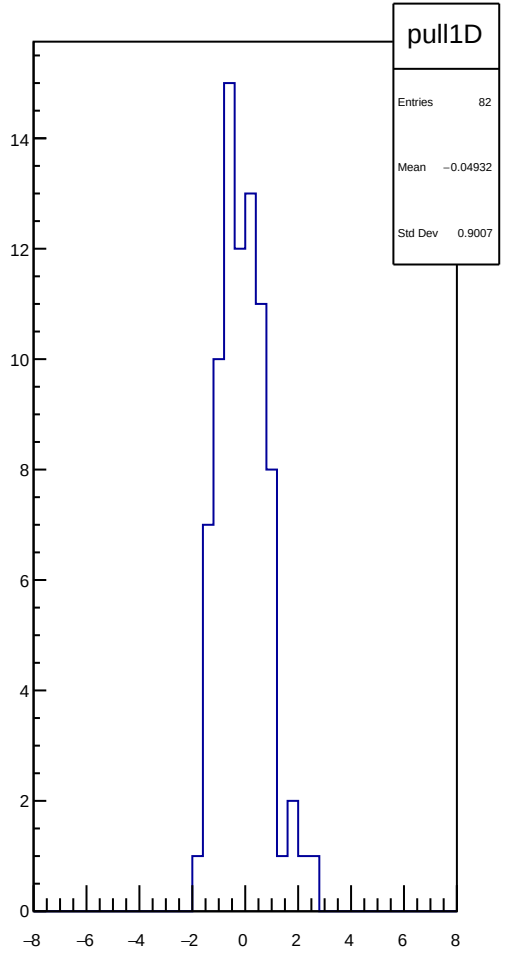

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.3 / 81
p0 −451.5 ± 2053
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −85.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.006917
Std Dev 0.9259
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

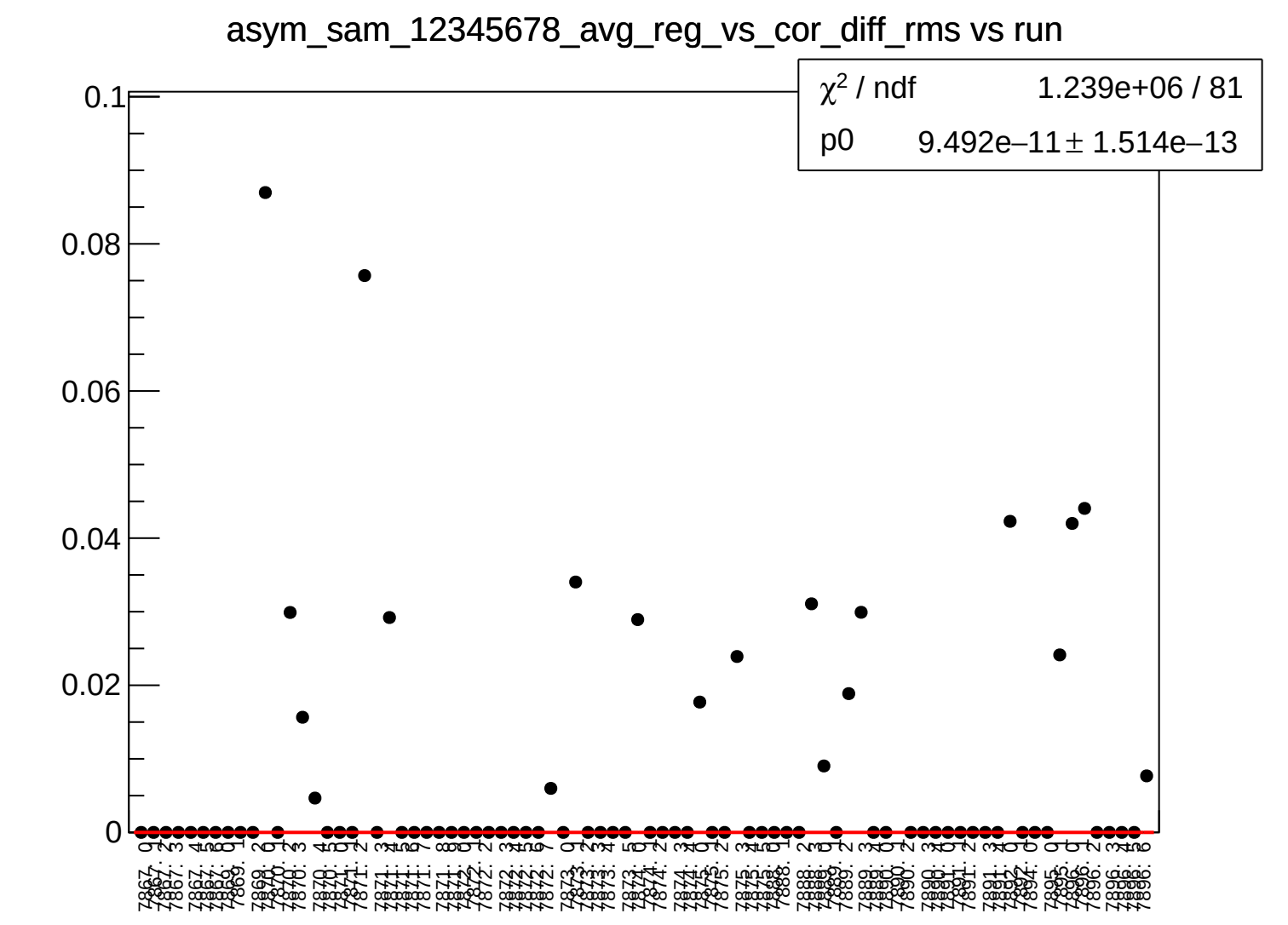

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.509e+04 / 81
p0 1846 ± 1.452
3200
3000
2800
2600
2400
2200
2000
1800
1600

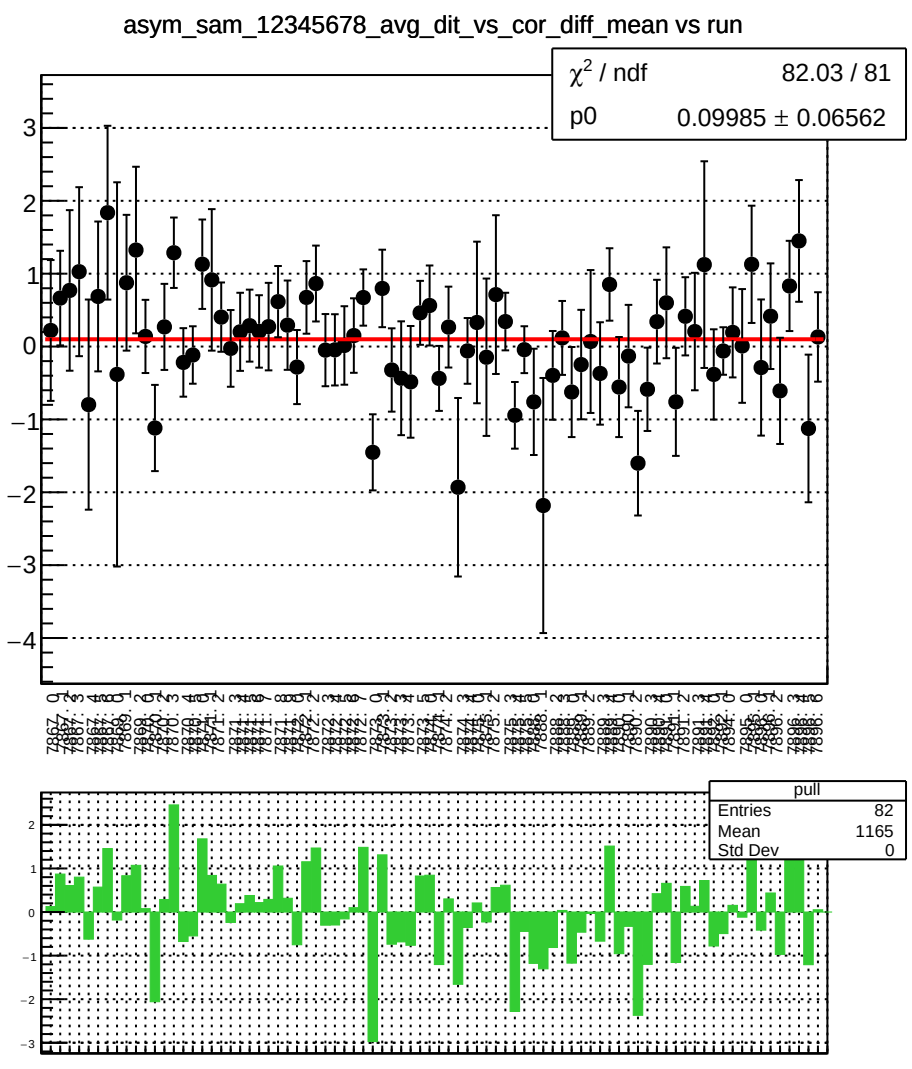

asym_sam_12345678_avg_mean vs run
χ² / ndf 72.29 / 81
p0 1019 ± 2064
pull
Entries 82
Mean −115.1
Std Dev 0
pull1D
Entries 82
Mean 0.005816
Std Dev 0.9389

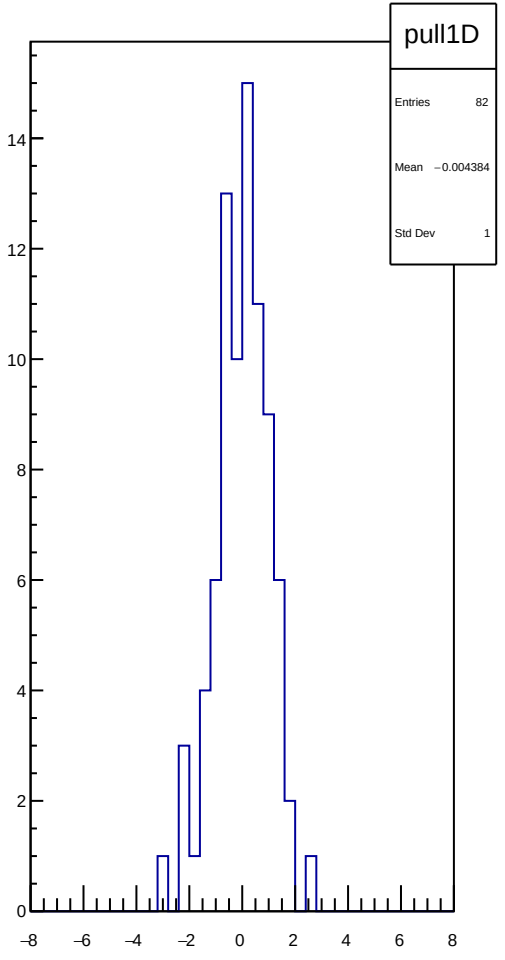

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.538e+04 / 81
p0 1856 ± 1.459
3200
3000
2800
2600
2400
2200
2000
1800
1600

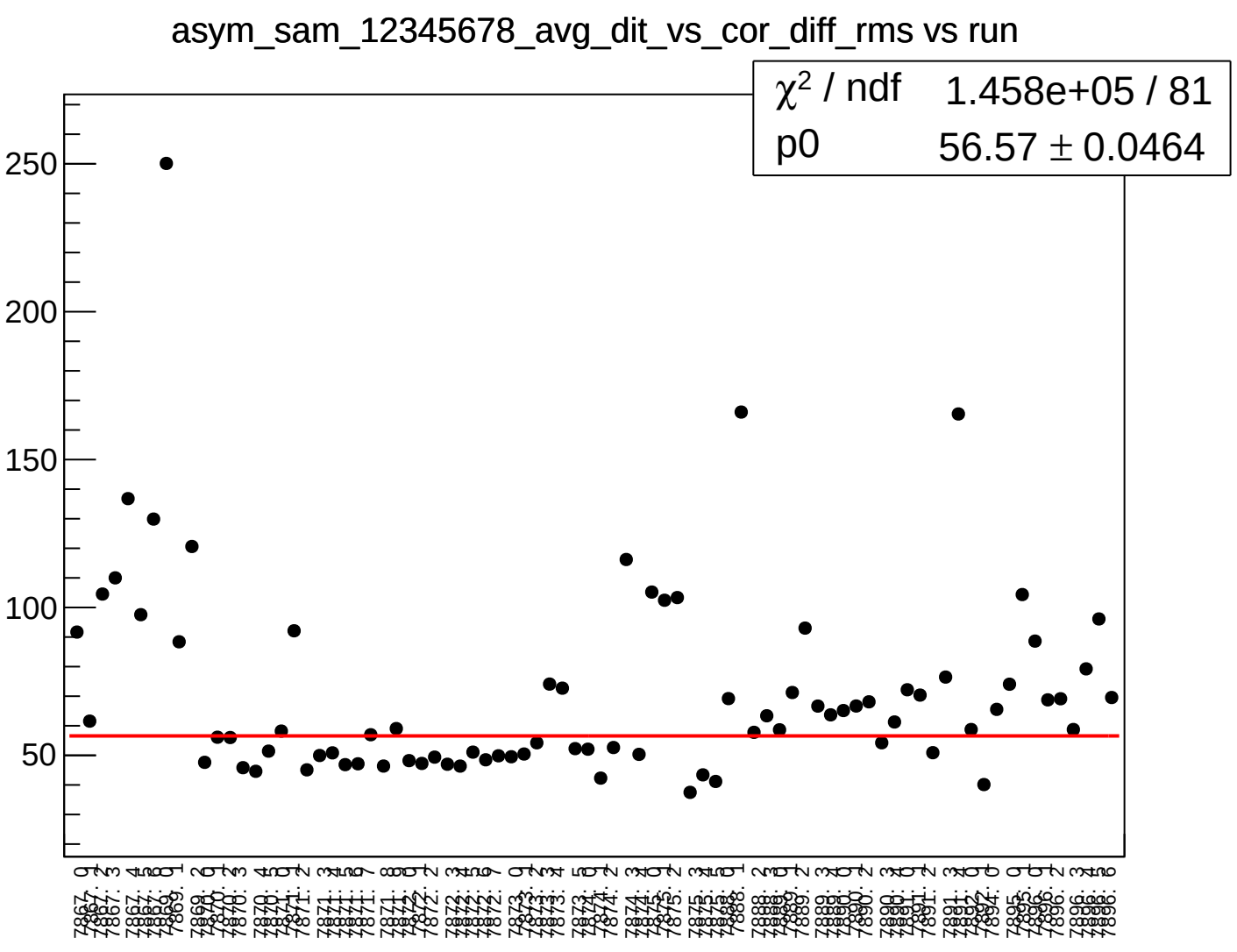

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.73 / 81
p0 −7.294e−14 ± 2.141e−13
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 21.08
Std Dev 47.76
3
2
1
0
−1
−2

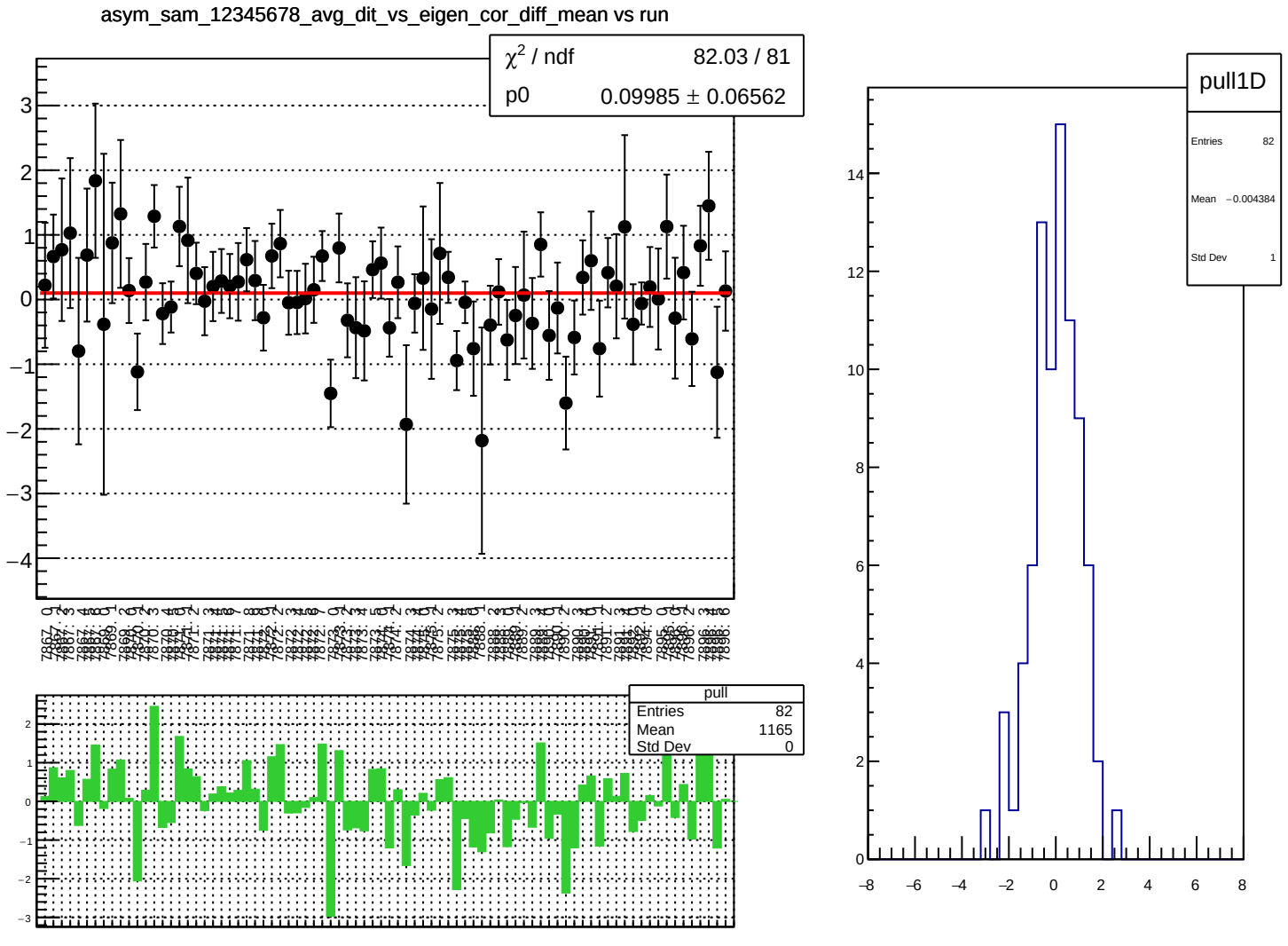

pull1D
Entries 82
Mean −0.04932
Std Dev 0.9007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

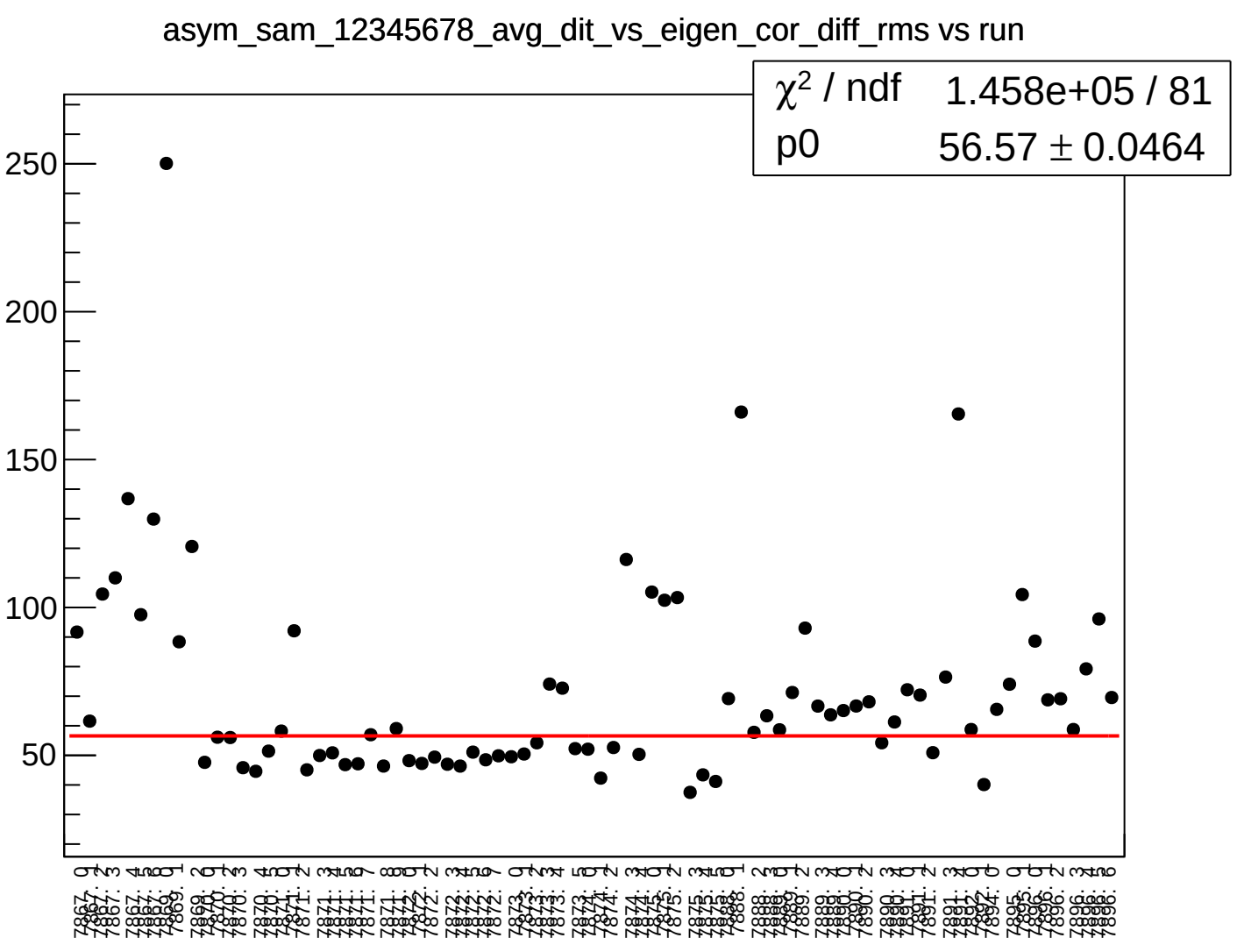

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.239e+06 / 81
p0 9.492e−11 ± 1.514e−13
0.1
0.08
0.06
0.04
0.02
0

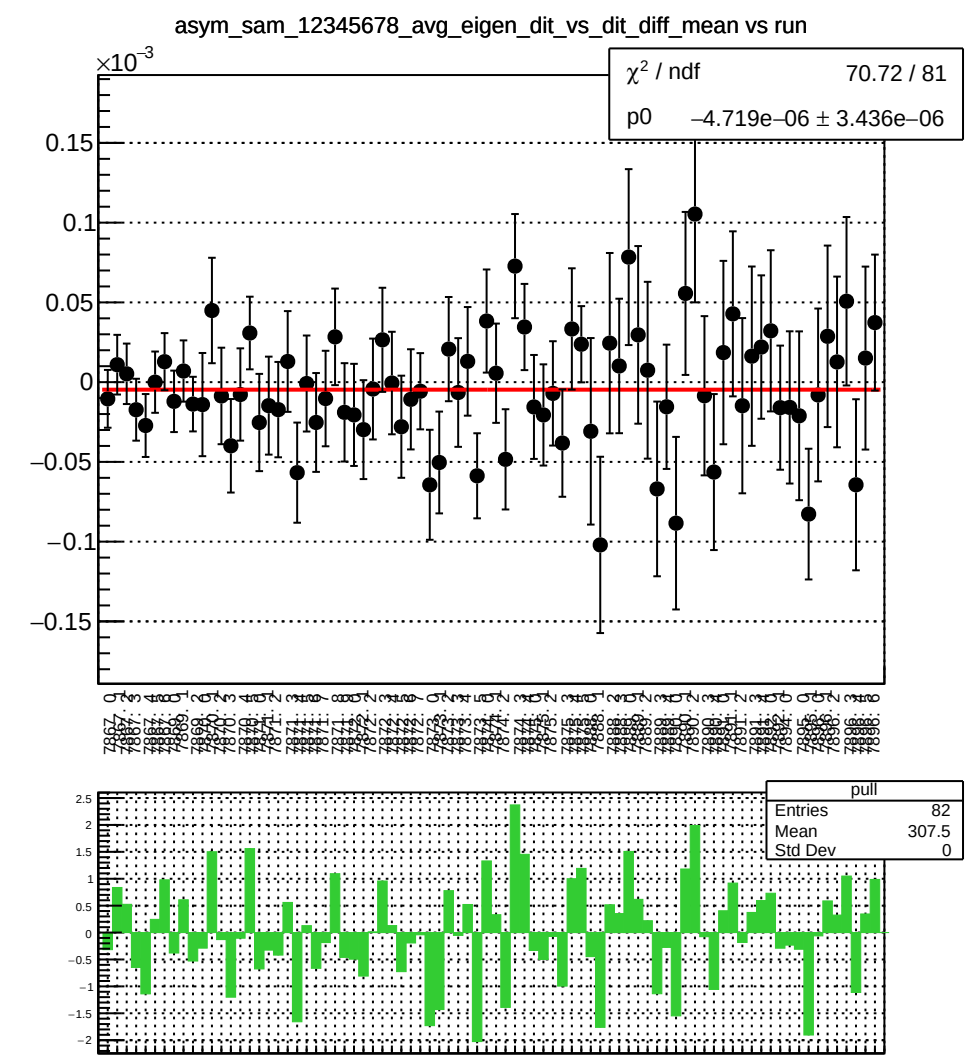

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.03 / 81
p0 0.09985 ± 0.06562
pull
Entries 82
Mean 1165
Std Dev 0

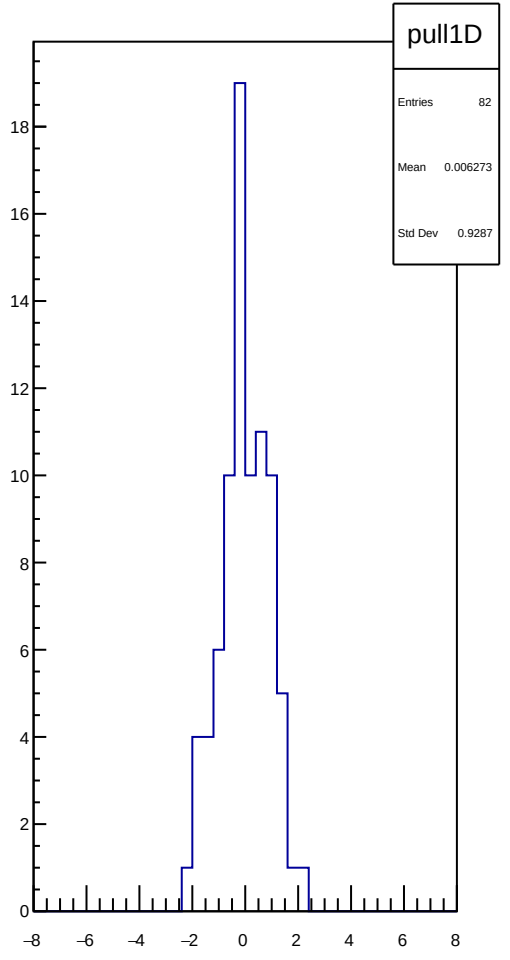

pull1D
Entries 82
Mean −0.004384
Std Dev 1

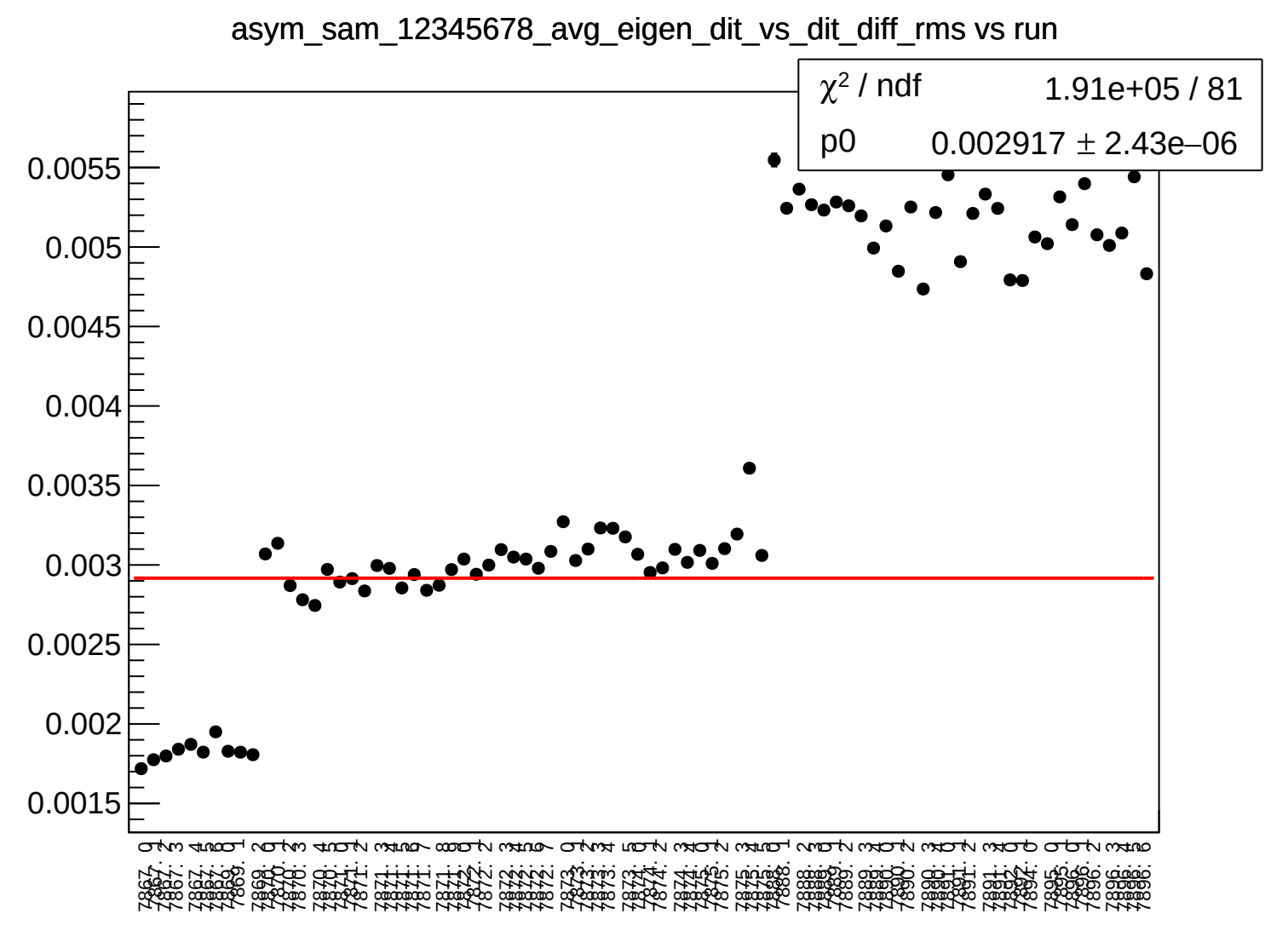

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 81
p0 56.57 ± 0.0464
250
200
150
100
50

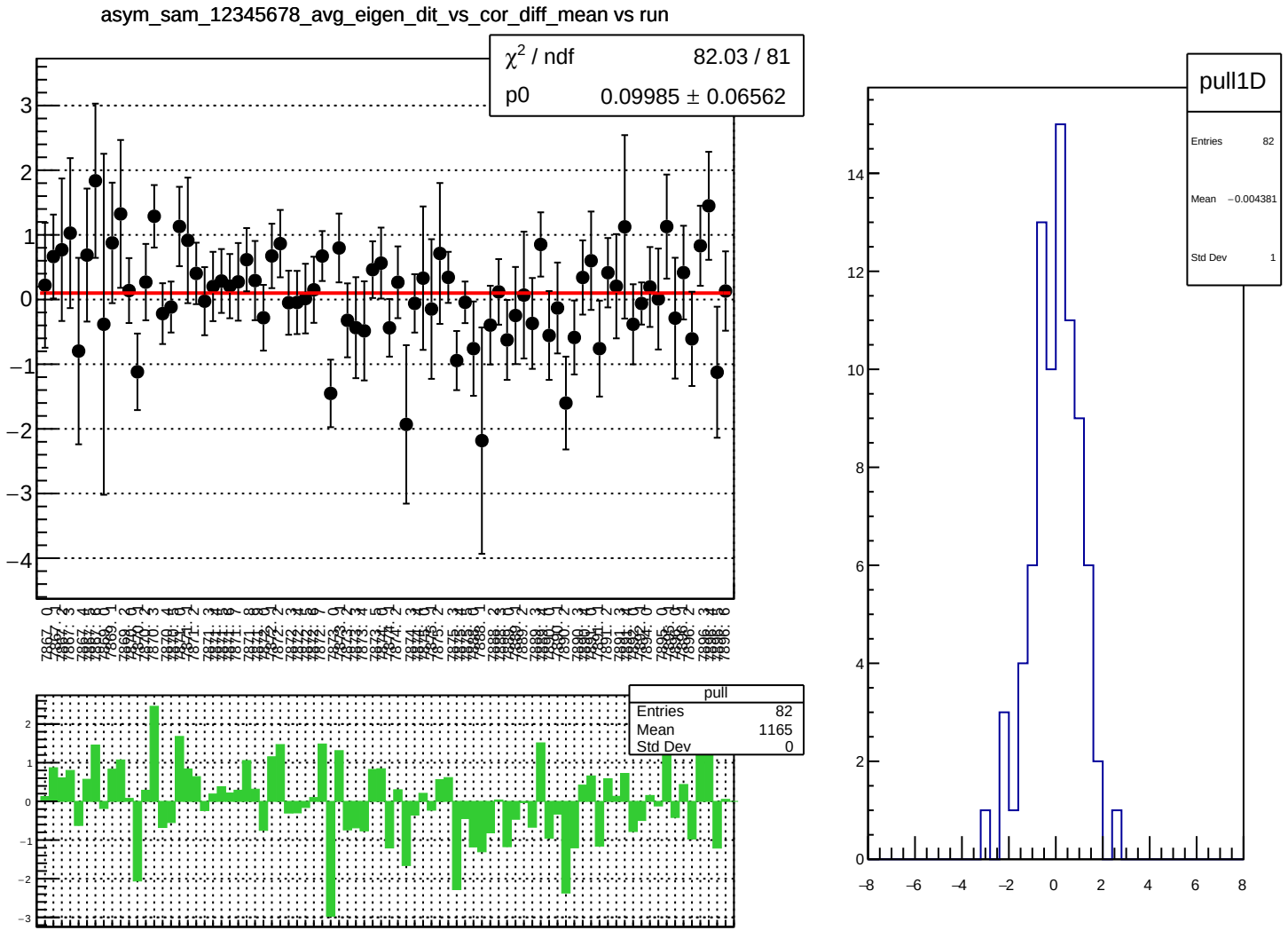

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.03 / 81
p0 0.09985 ± 0.06562
pull
Entries 82
Mean 1165
Std Dev 0
pull1D
Entries 82
Mean −0.004384
Std Dev 1

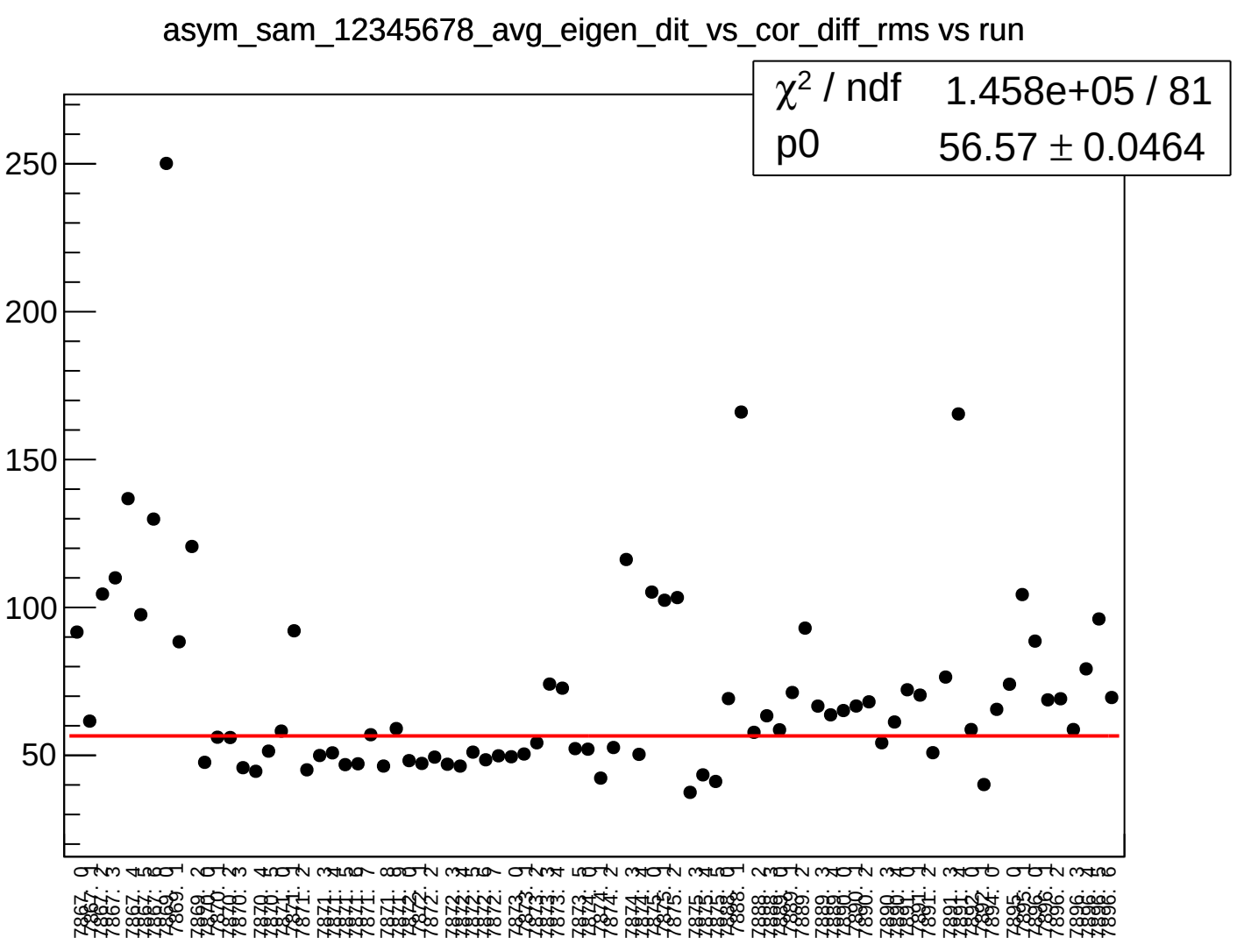

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 81
p0 56.57 ± 0.0464
250
200
150
100
50

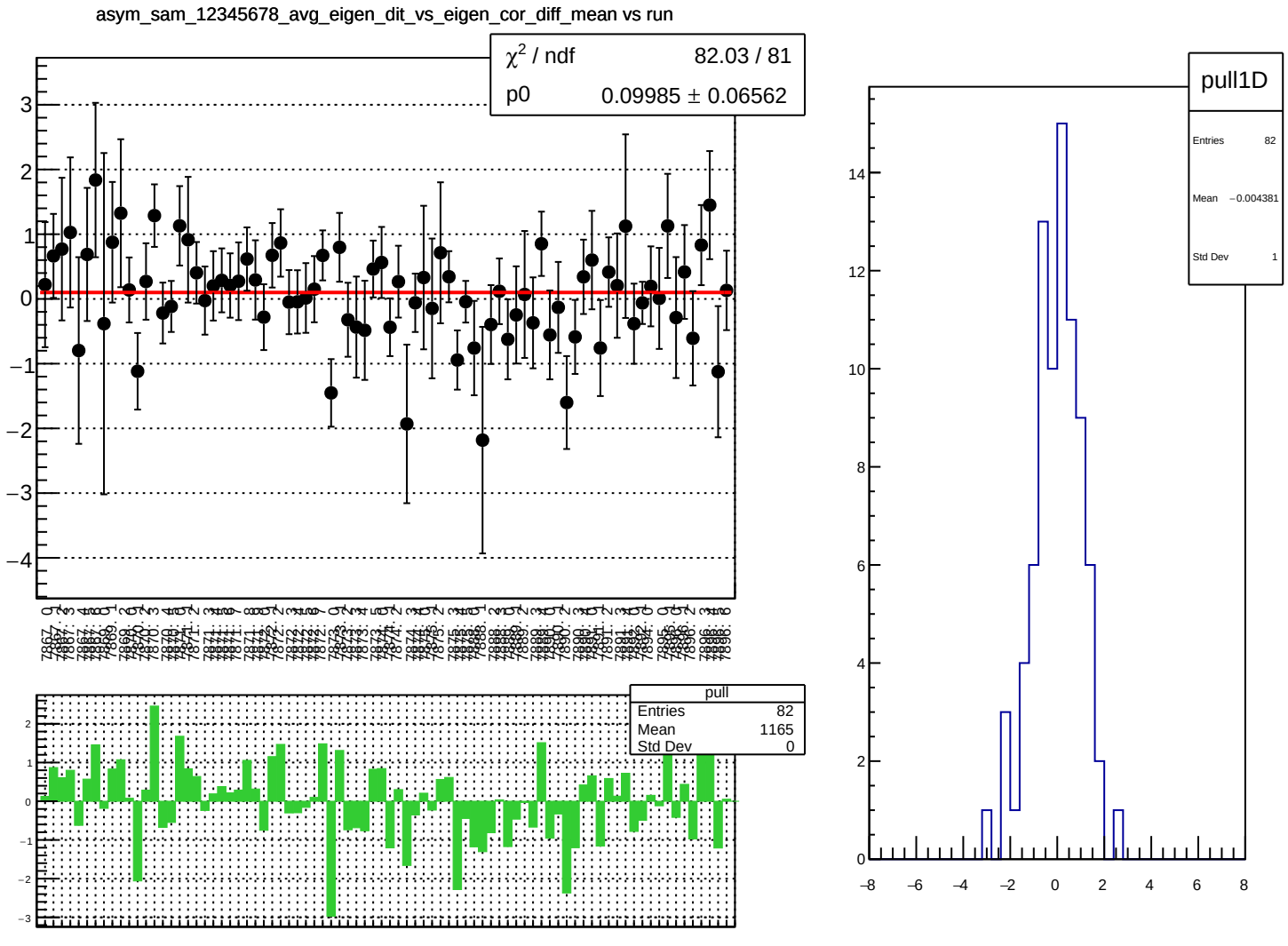

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.72 / 81
p0 −4.719e−06 ± 3.436e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean 307.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

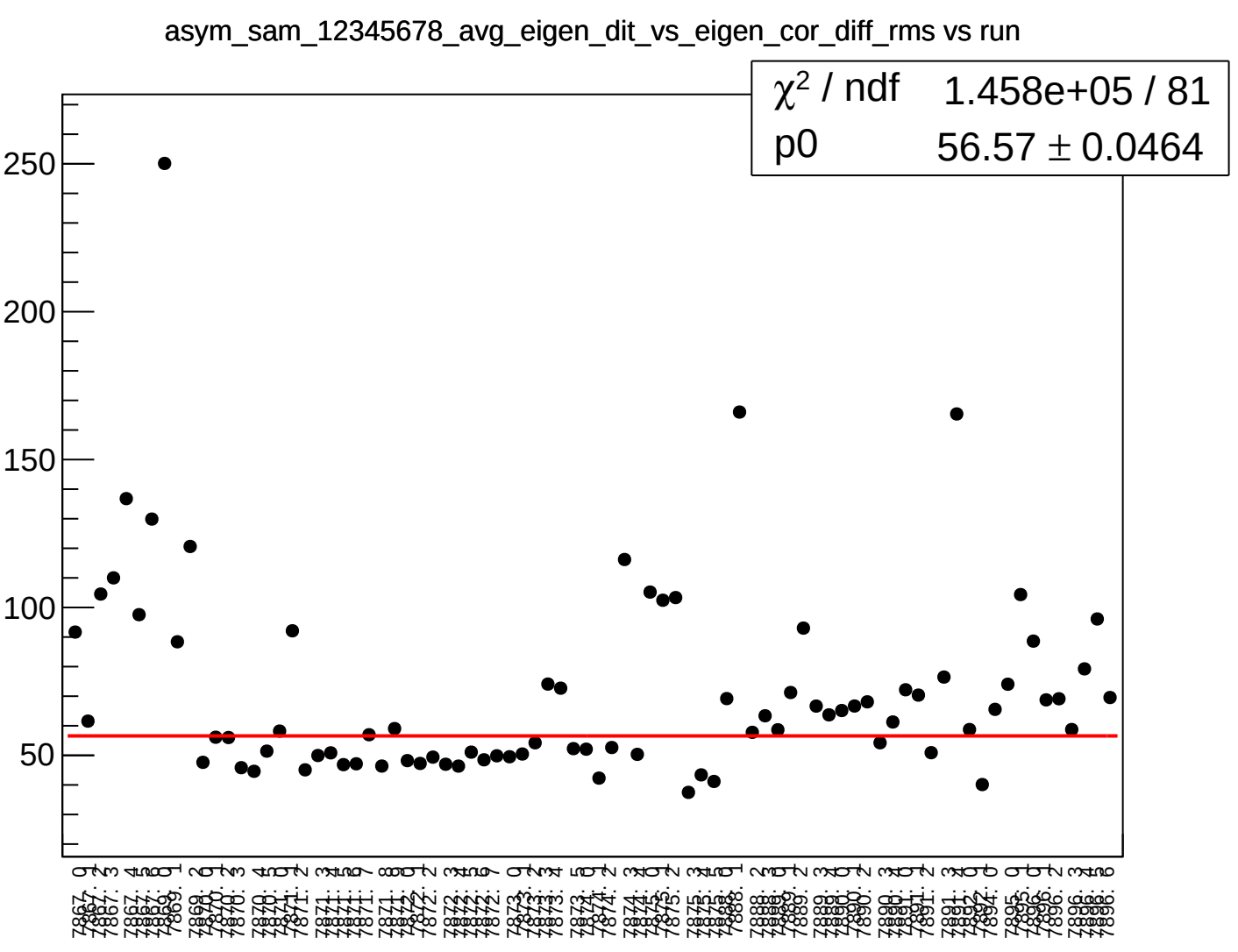

pull1D
Entries 82
Mean 0.006273
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

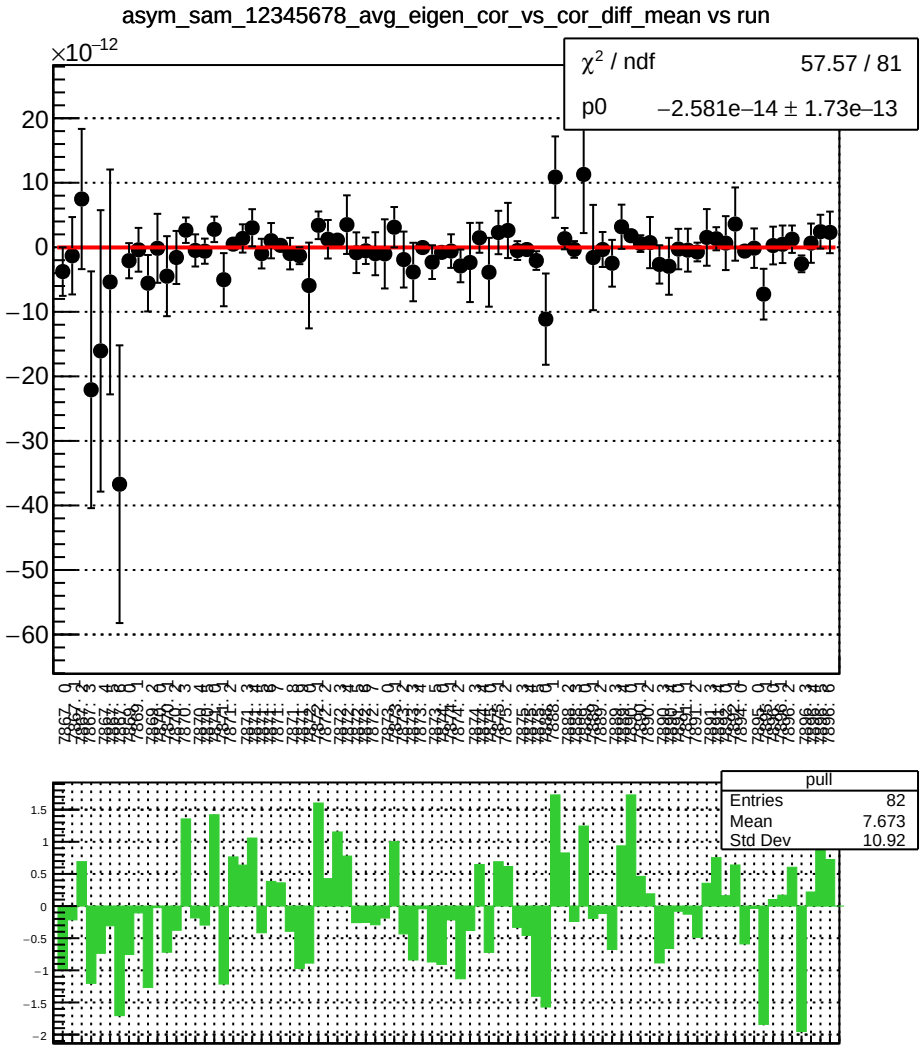

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.91e+05 / 81
p0 0.002917 ± 2.43e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

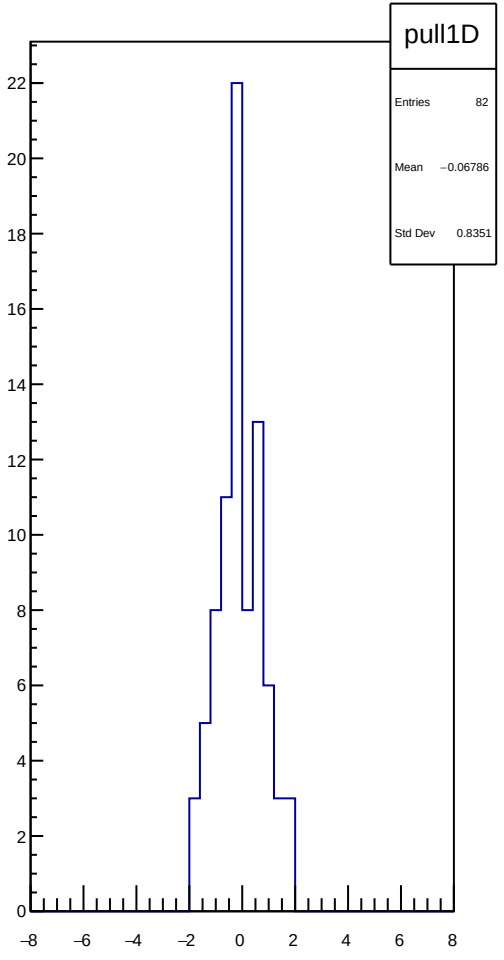

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.03 / 81
p0 0.09985 ± 0.06562
pull
Entries 82
Mean 1165
Std Dev 0
pull1D
Entries 82
Mean −0.004381
Std Dev 1

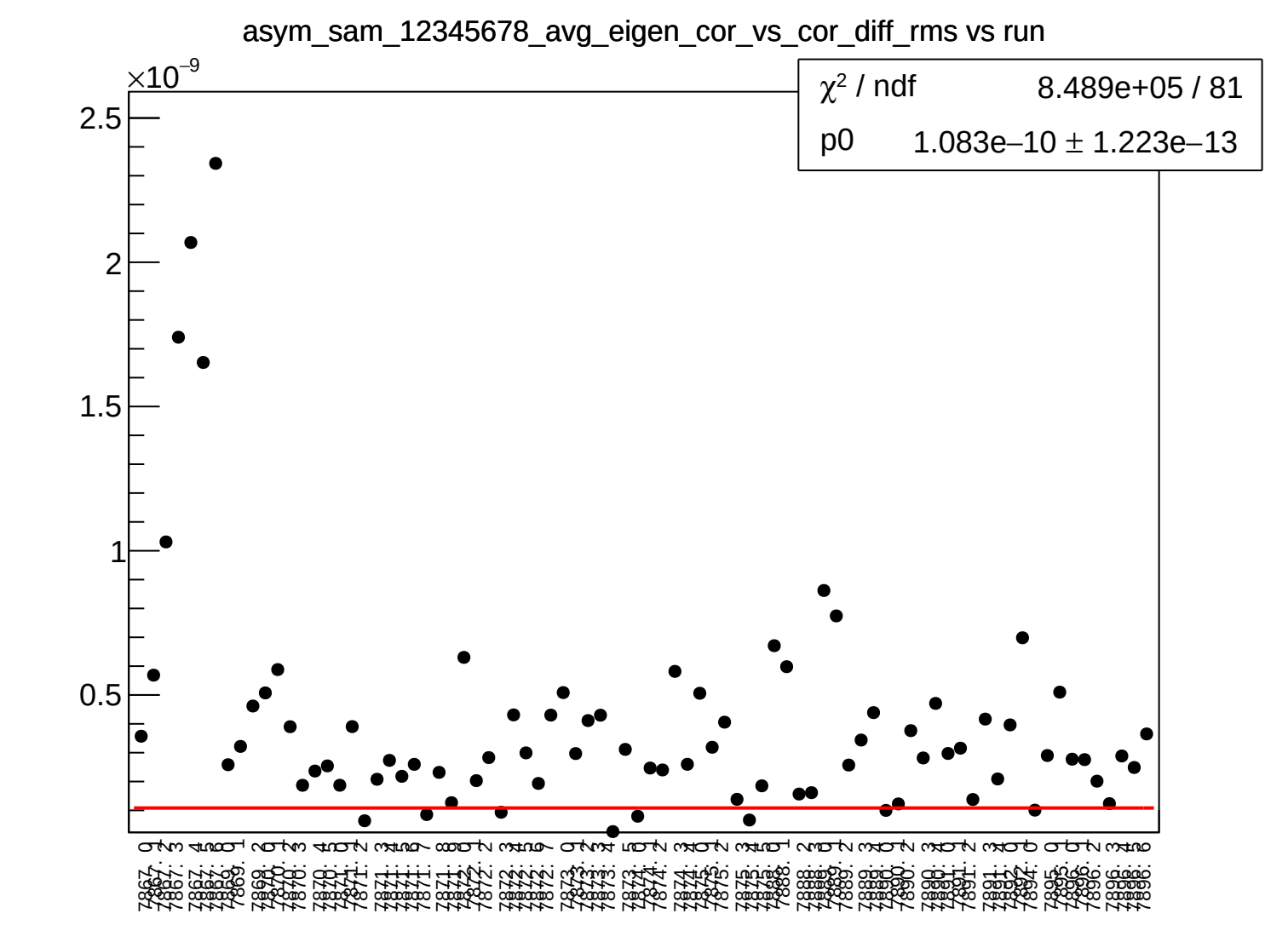

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 81
p0 56.57 ± 0.0464
250
200
150
100
50

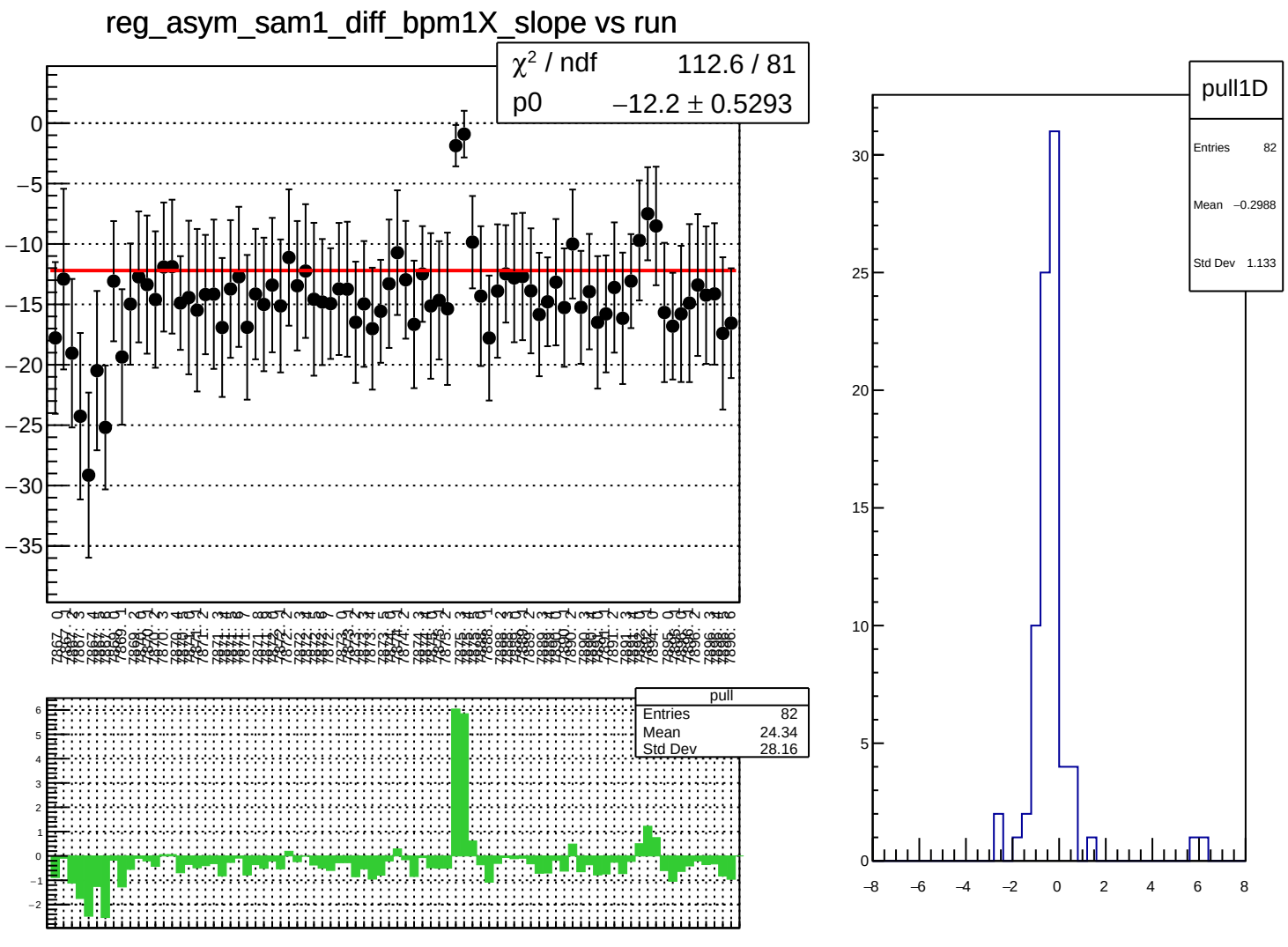

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.03 / 81
p0 0.09985 ± 0.06562
pull
Entries 82
Mean 1165
Std Dev 0
pull1D
Entries 82
Mean −0.004381
Std Dev 1

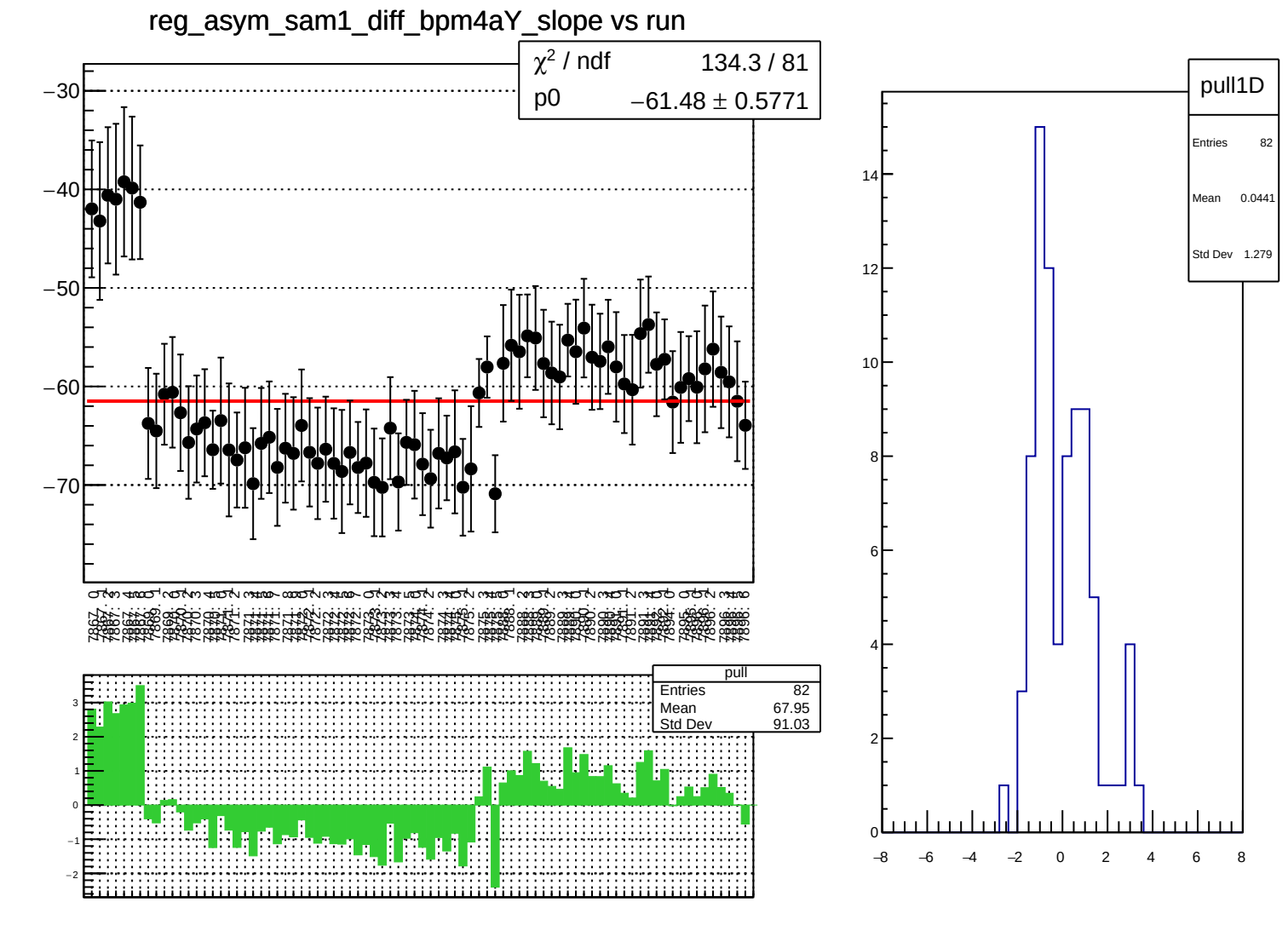

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 81
p0 56.57 ± 0.0464
250
200
150
100
50

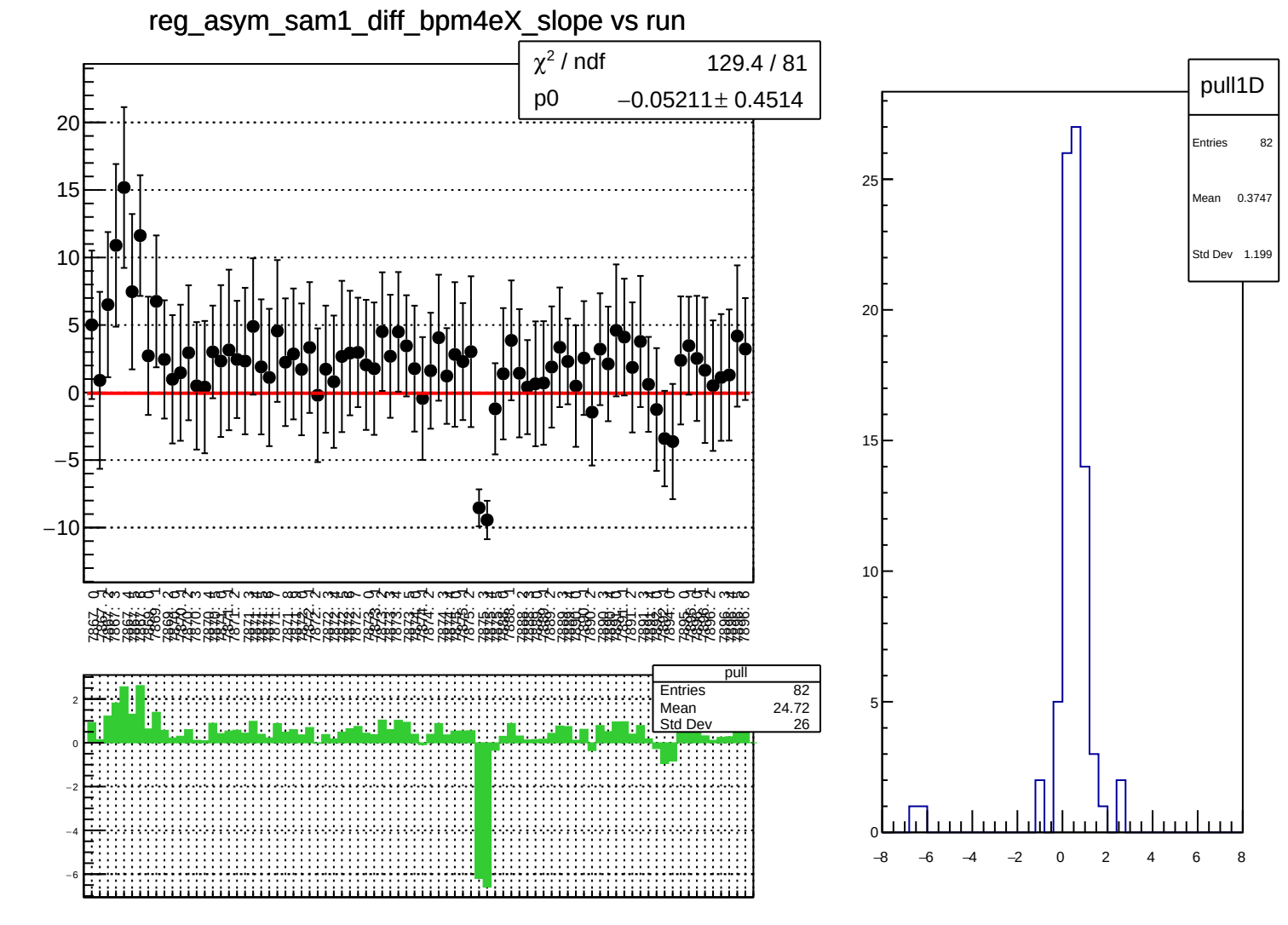

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.57 / 81
p0 −2.581e−14 ± 1.73e−13
pull
Entries 82
Mean 7.673
Std Dev 10.92

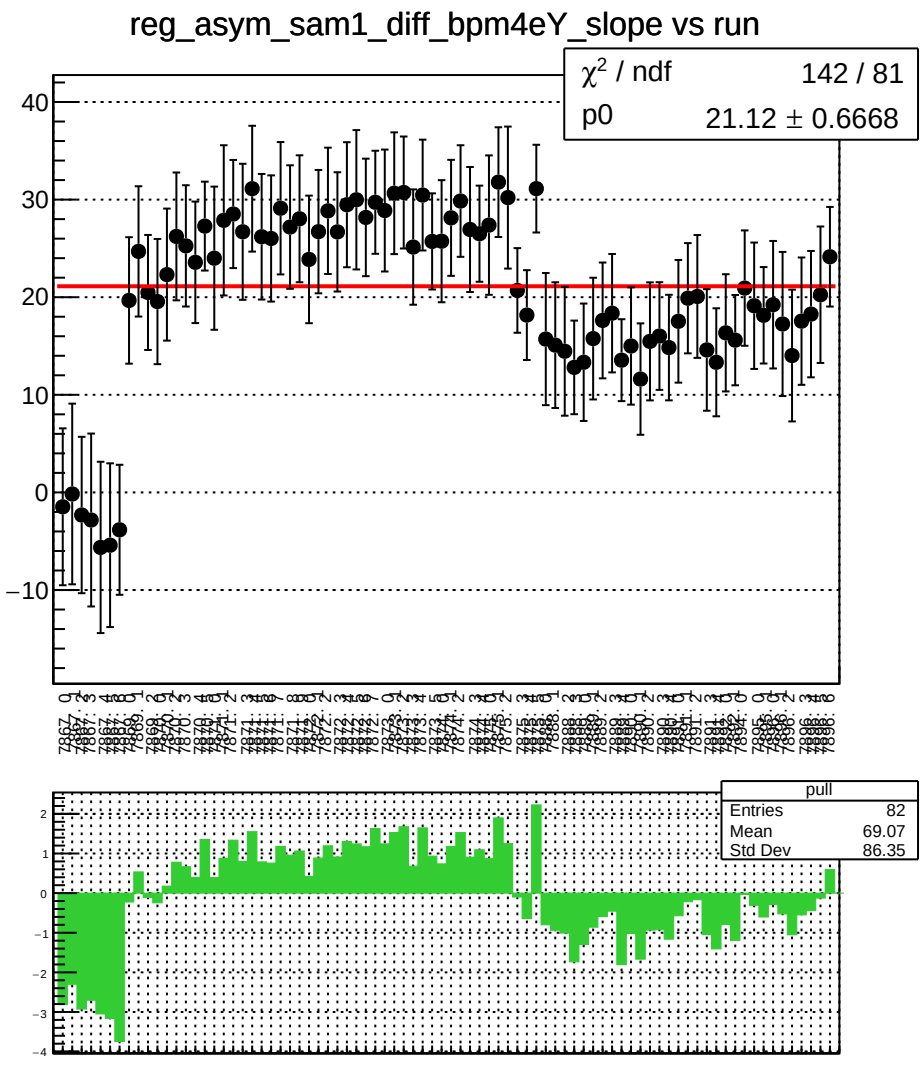

pull1D
Entries 82
Mean −0.06786
Std Dev 0.8351

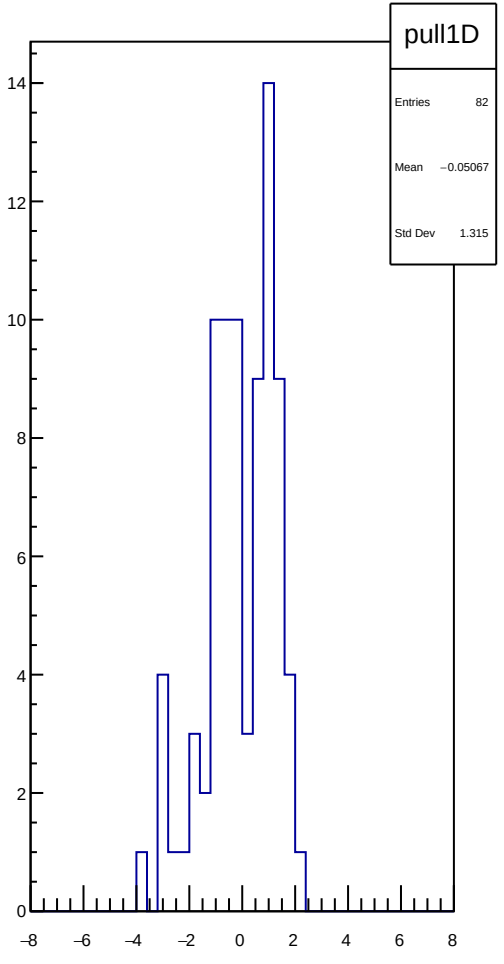

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.489e+05 / 81
p0 1.083e−10 ± 1.223e−13
2.5
2
1.5
1
0.5

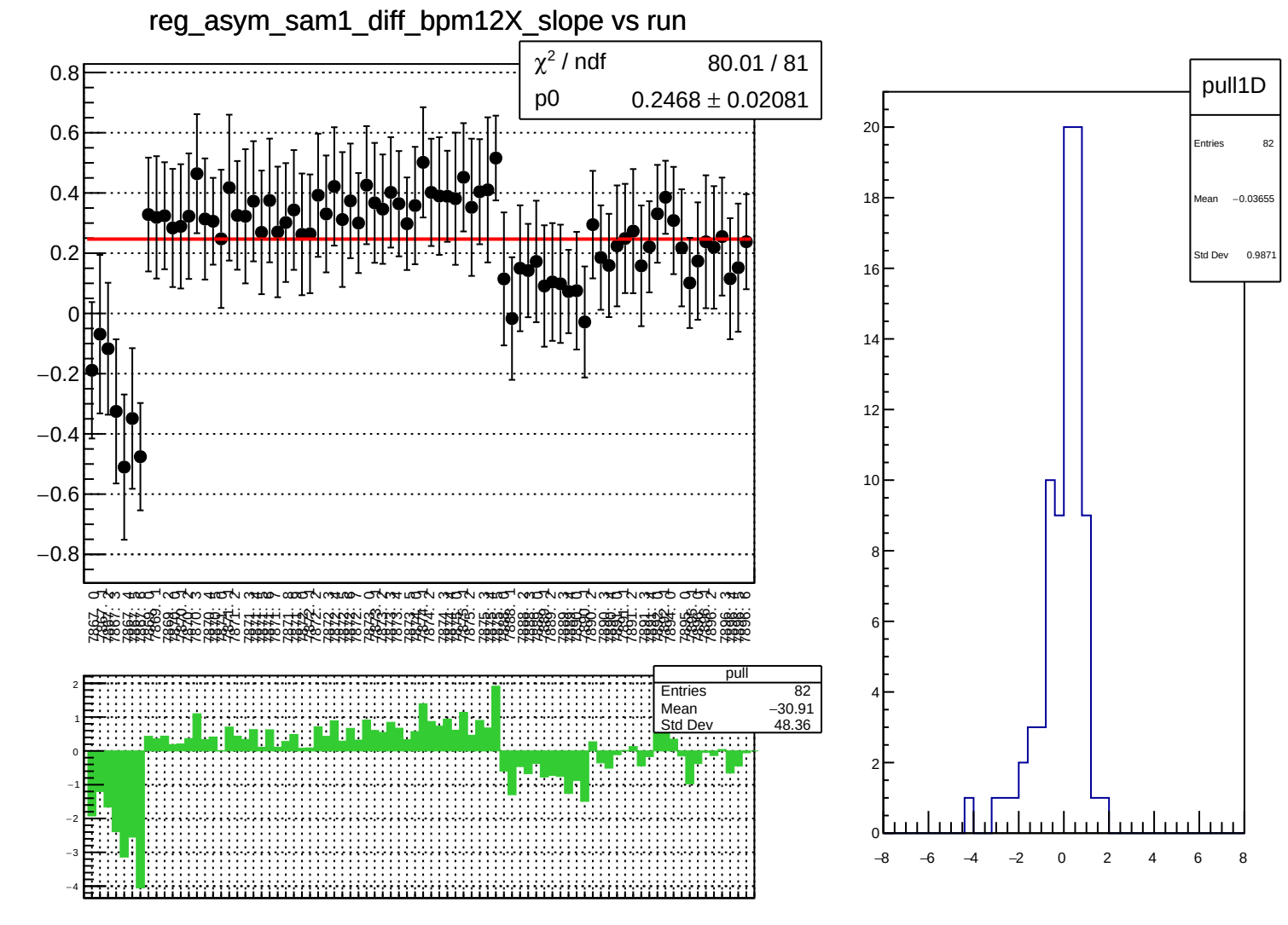

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 112.6 / 81
p0 −12.2 ± 0.5293
pull
Entries 82
Mean 24.34
Std Dev 28.16
pull1D
Entries 82
Mean −0.2988
Std Dev 1.133

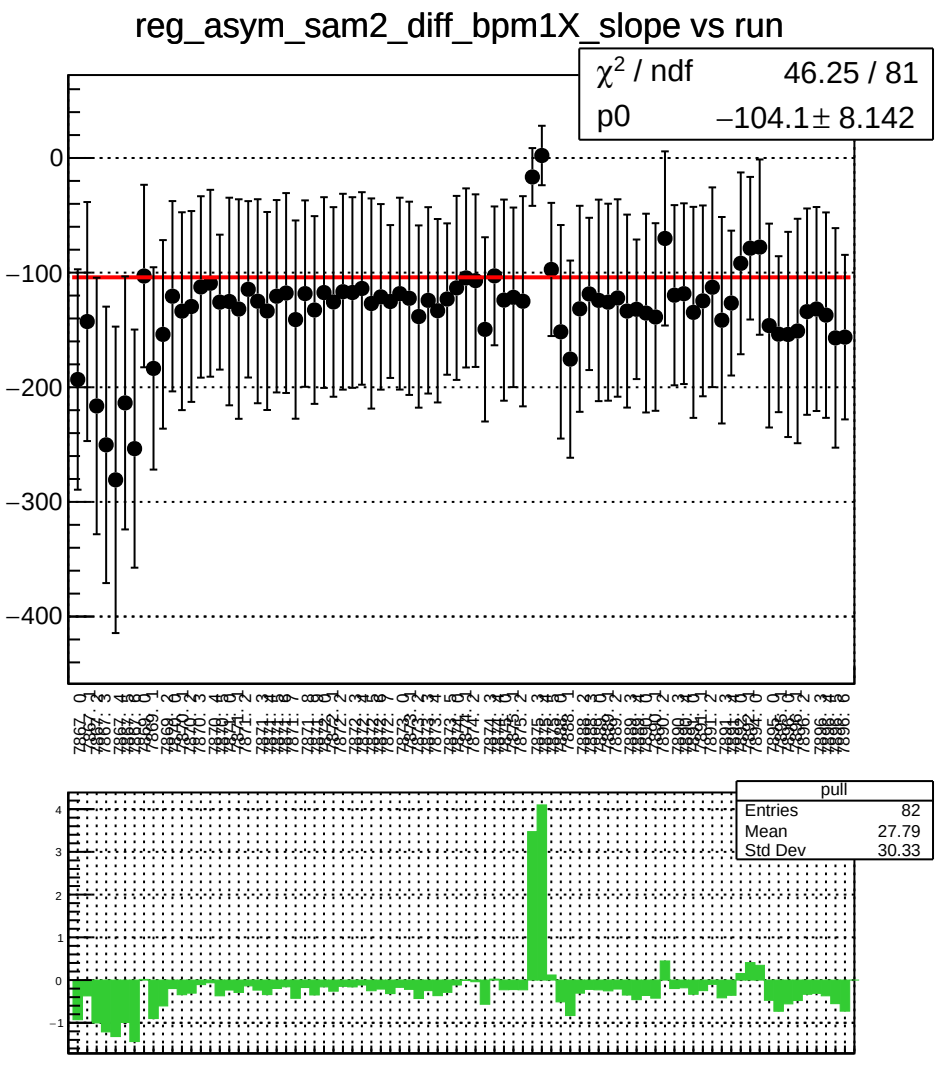

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 134.3 / 81
p0 −61.48 ± 0.5771
pull
Entries 82
Mean 67.95
Std Dev 91.03
pull1D
Entries 82
Mean 0.0441
Std Dev 1.279

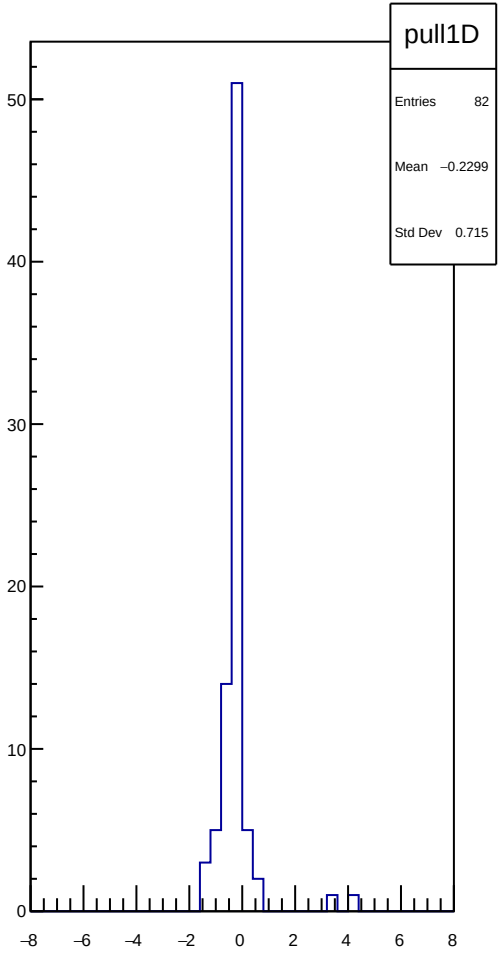

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 129.4 / 81
p0 −0.05211 ± 0.4514
pull
Entries 82
Mean 24.72
Std Dev 26
pull1D
Entries 82
Mean 0.3747
Std Dev 1.199

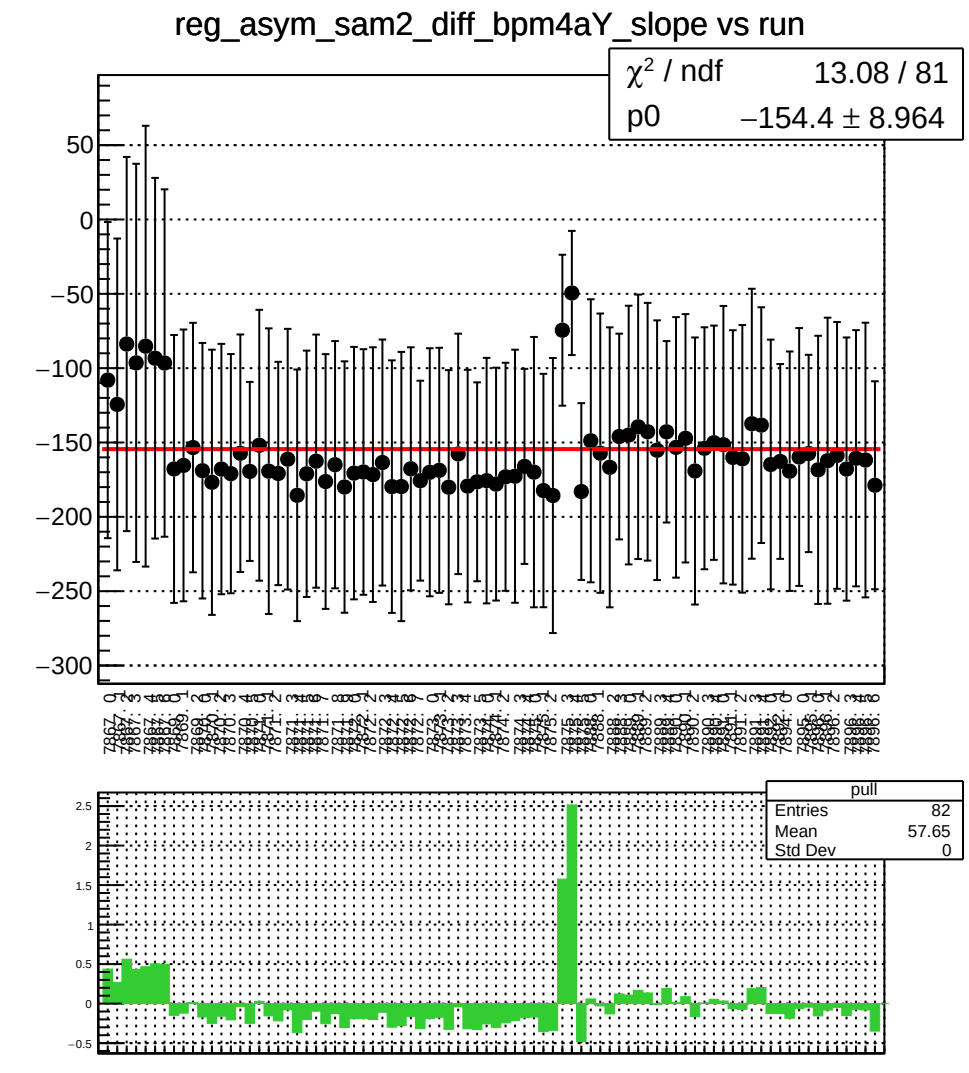

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 142 / 81
p0 21.12 ± 0.6668
pull
Entries 82
Mean 69.07
Std Dev 86.35

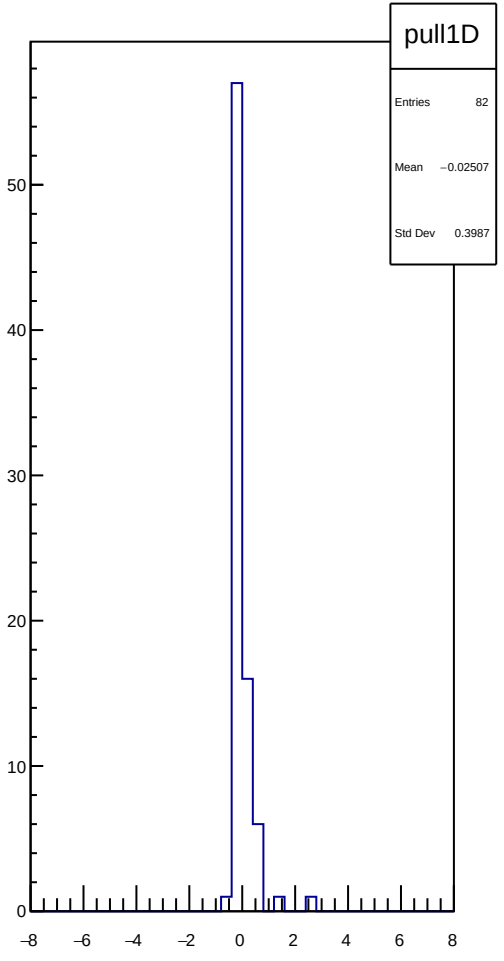

pull1D
Entries 82
Mean −0.05067
Std Dev 1.315

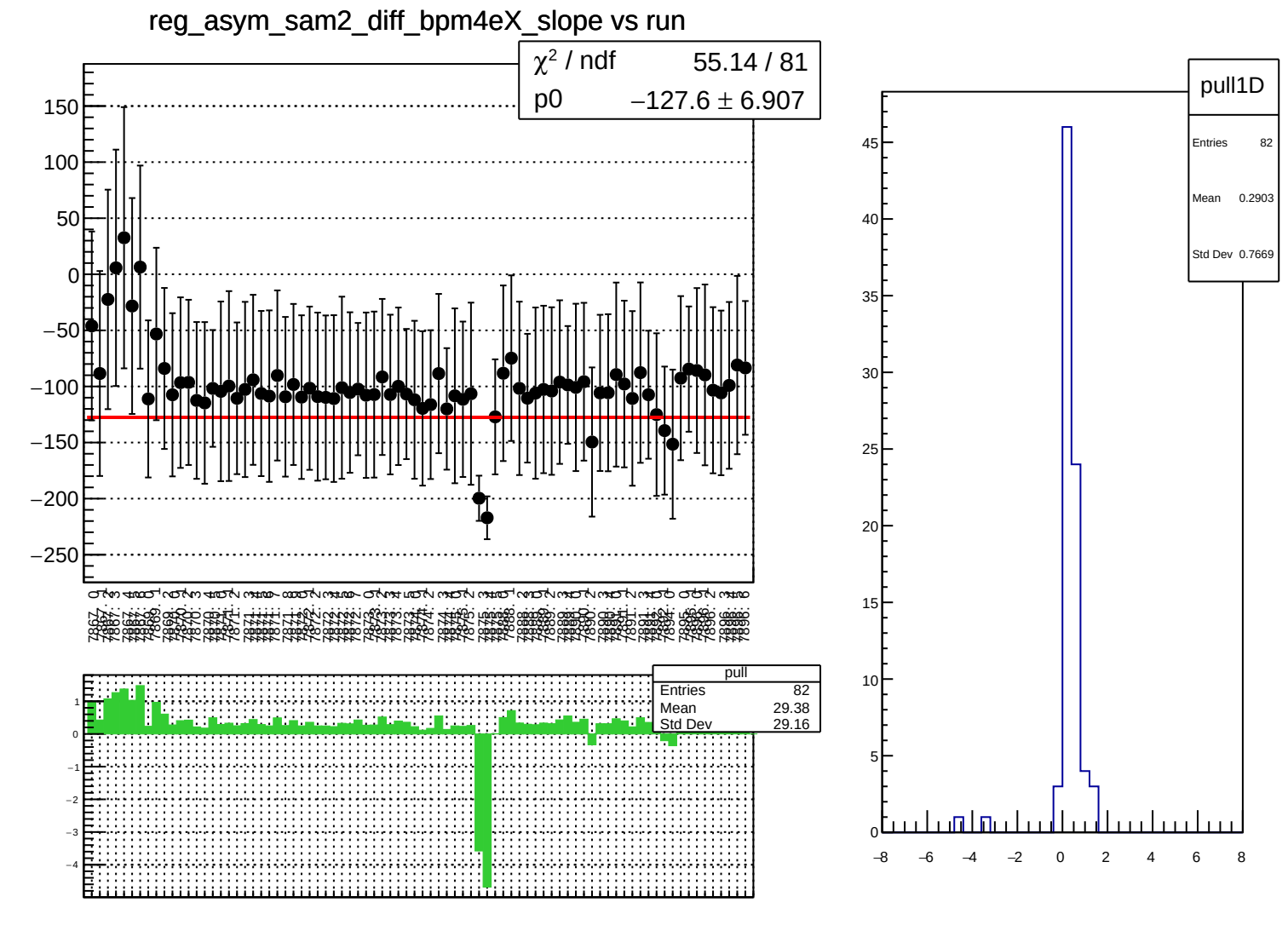

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 80.01 / 81
p0 0.2468 ± 0.02081
pull
Entries 82
Mean −30.91
Std Dev 48.36
pull1D
Entries 82
Mean −0.03655
Std Dev 0.9871

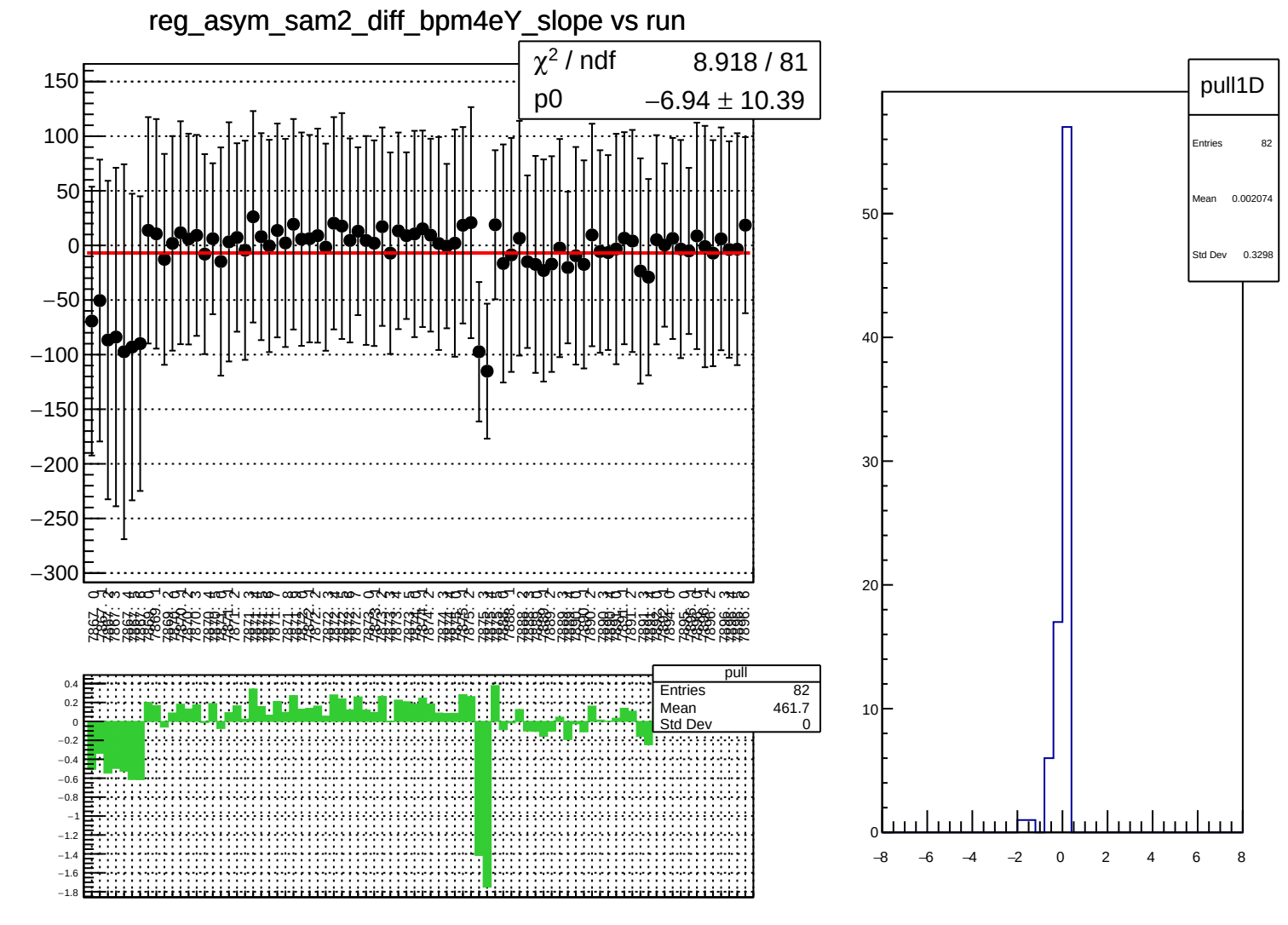

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 46.25 / 81
p0 −104.1± 8.142
pull
Entries 82
Mean 27.79
Std Dev 30.33

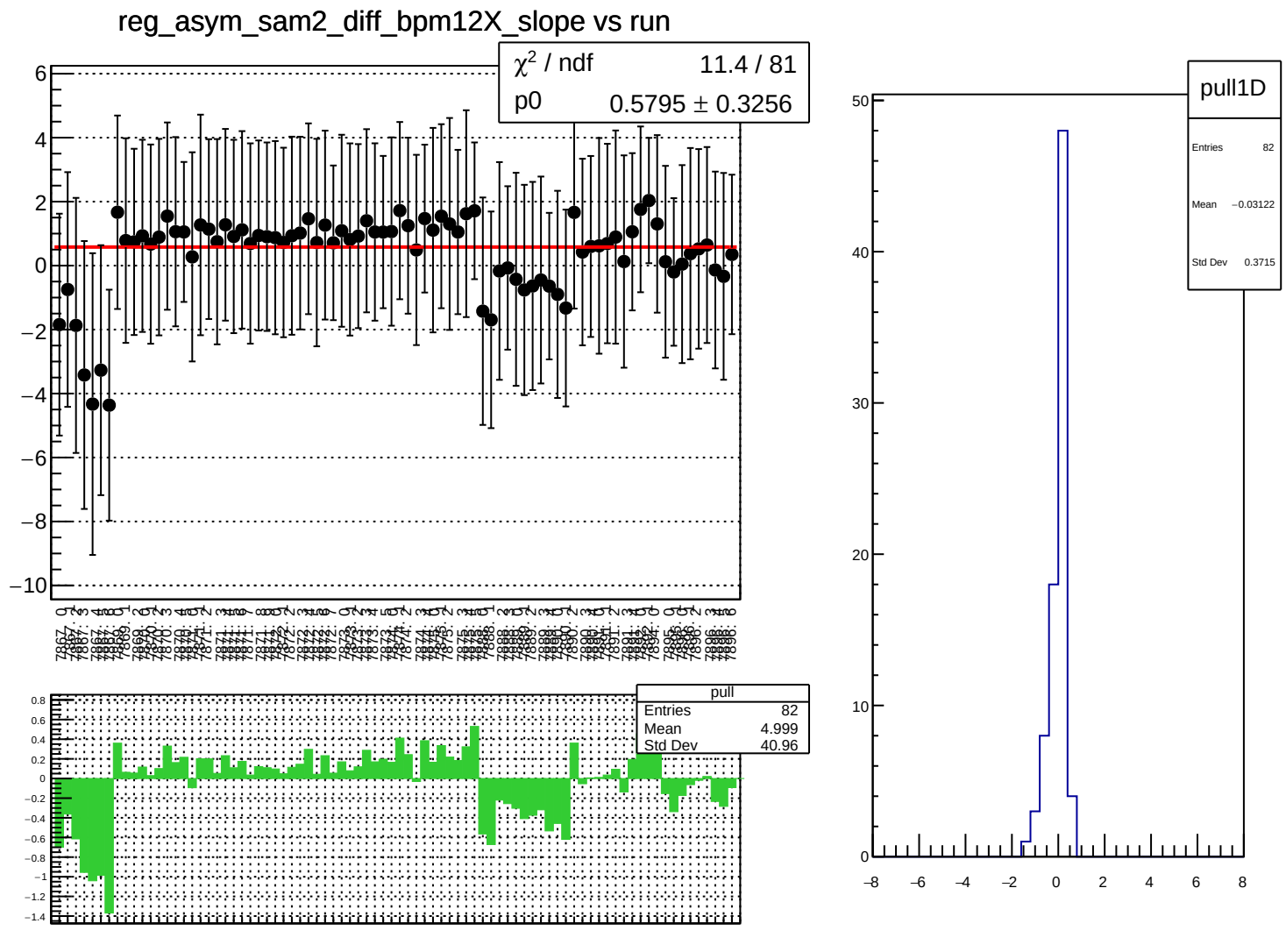

pull1D
Entries 82
Mean −0.2299
Std Dev 0.715

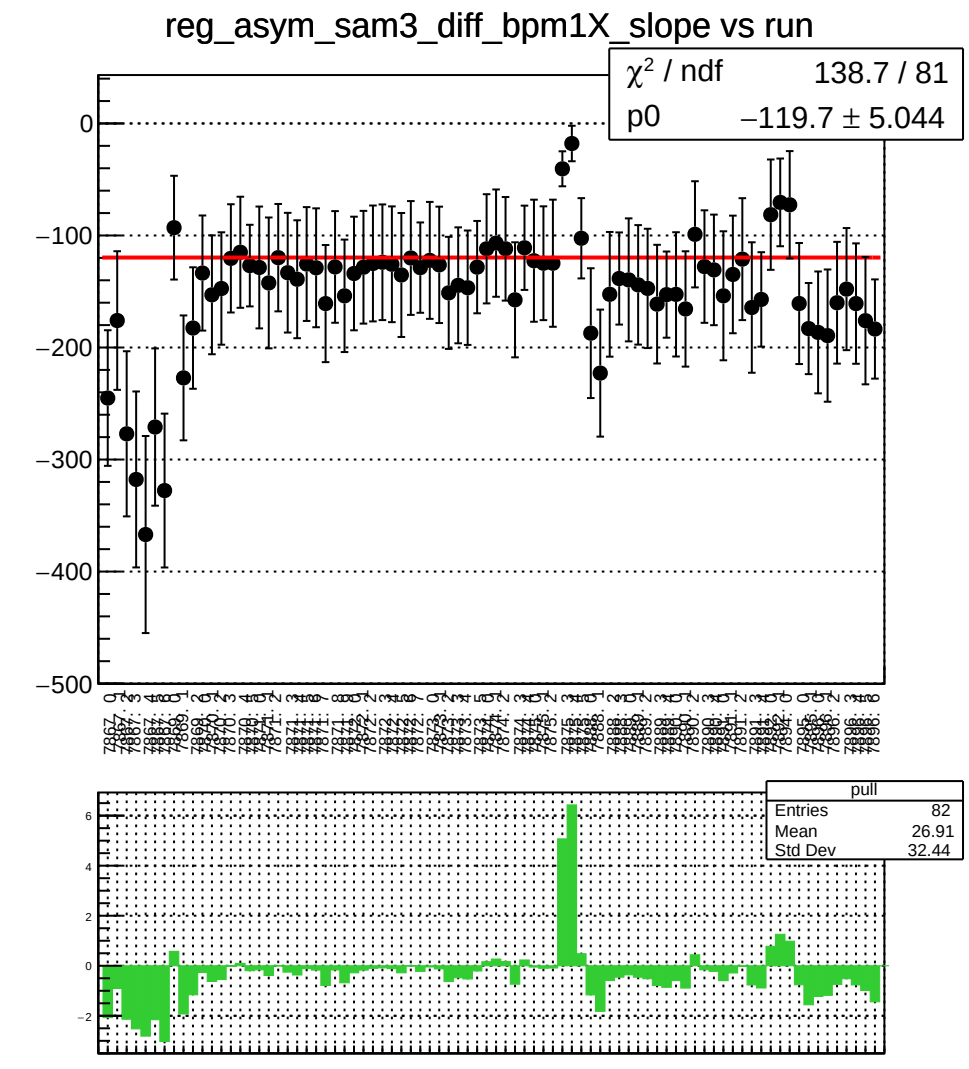

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 13.08 / 81
p0 −154.4 ± 8.964
pull
Entries 82
Mean 57.65
Std Dev 0

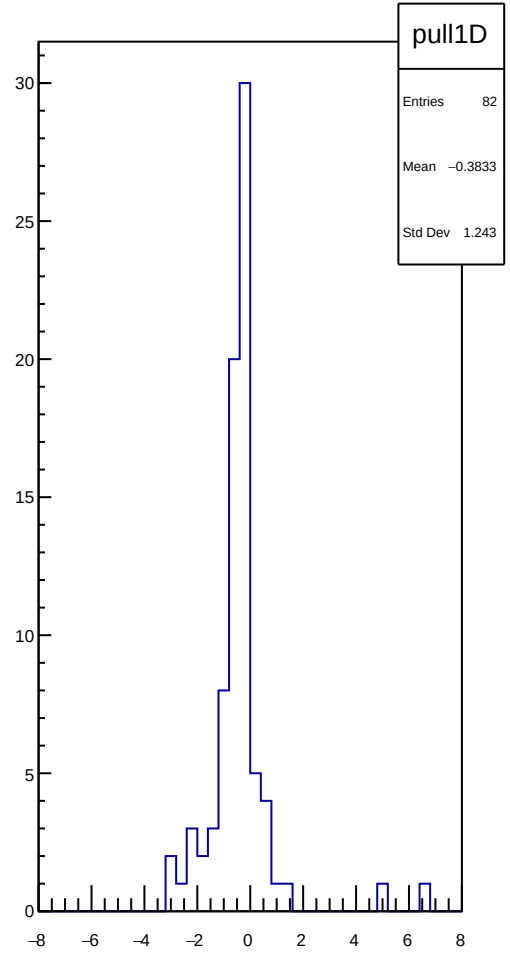

pull1D
Entries 82
Mean −0.02507
Std Dev 0.3987

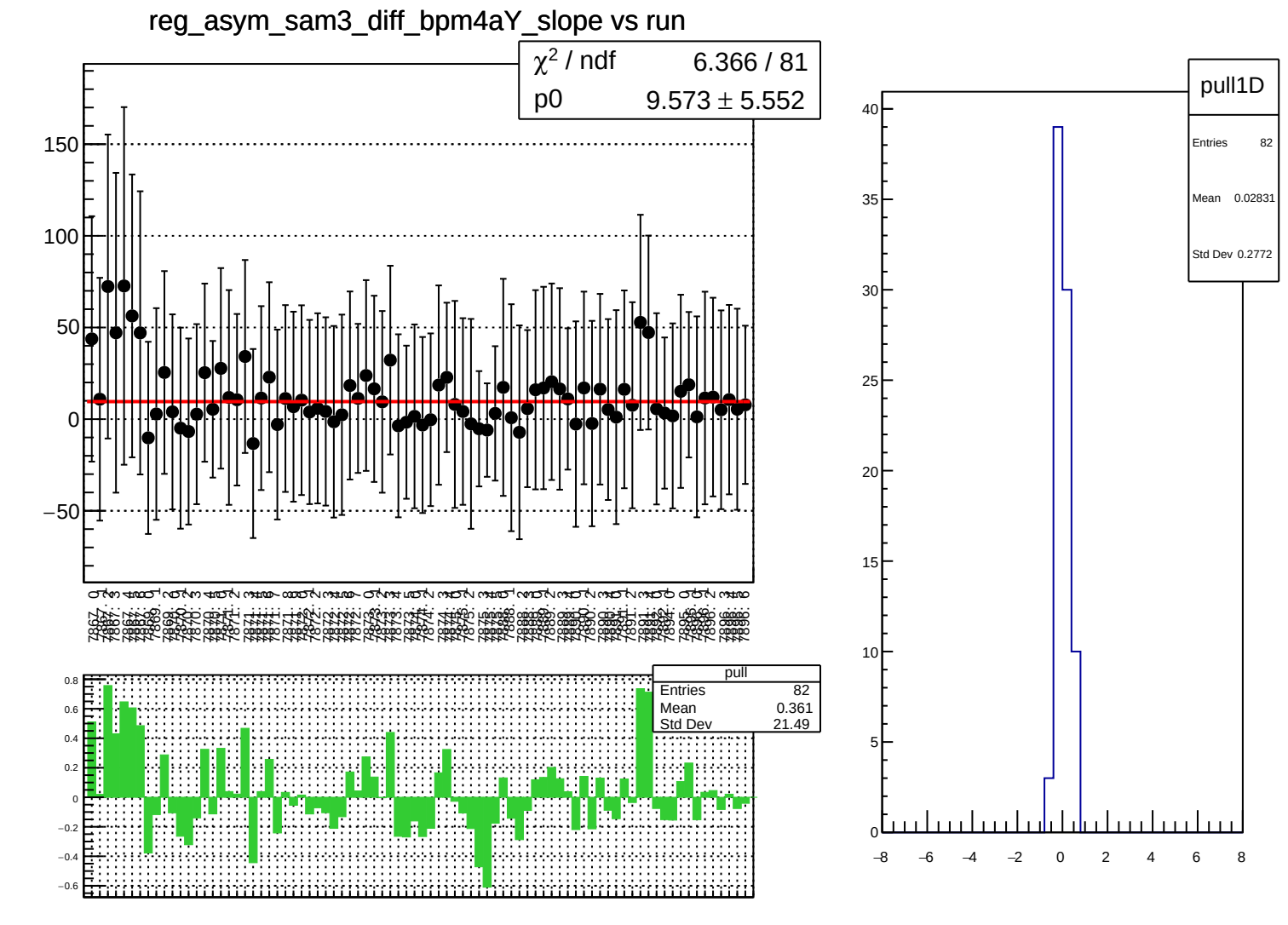

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 55.14 / 81
p0 −127.6 ± 6.907
pull
Entries 82
Mean 29.38
Std Dev 29.16
pull1D
Entries 82
Mean 0.2903
Std Dev 0.7669

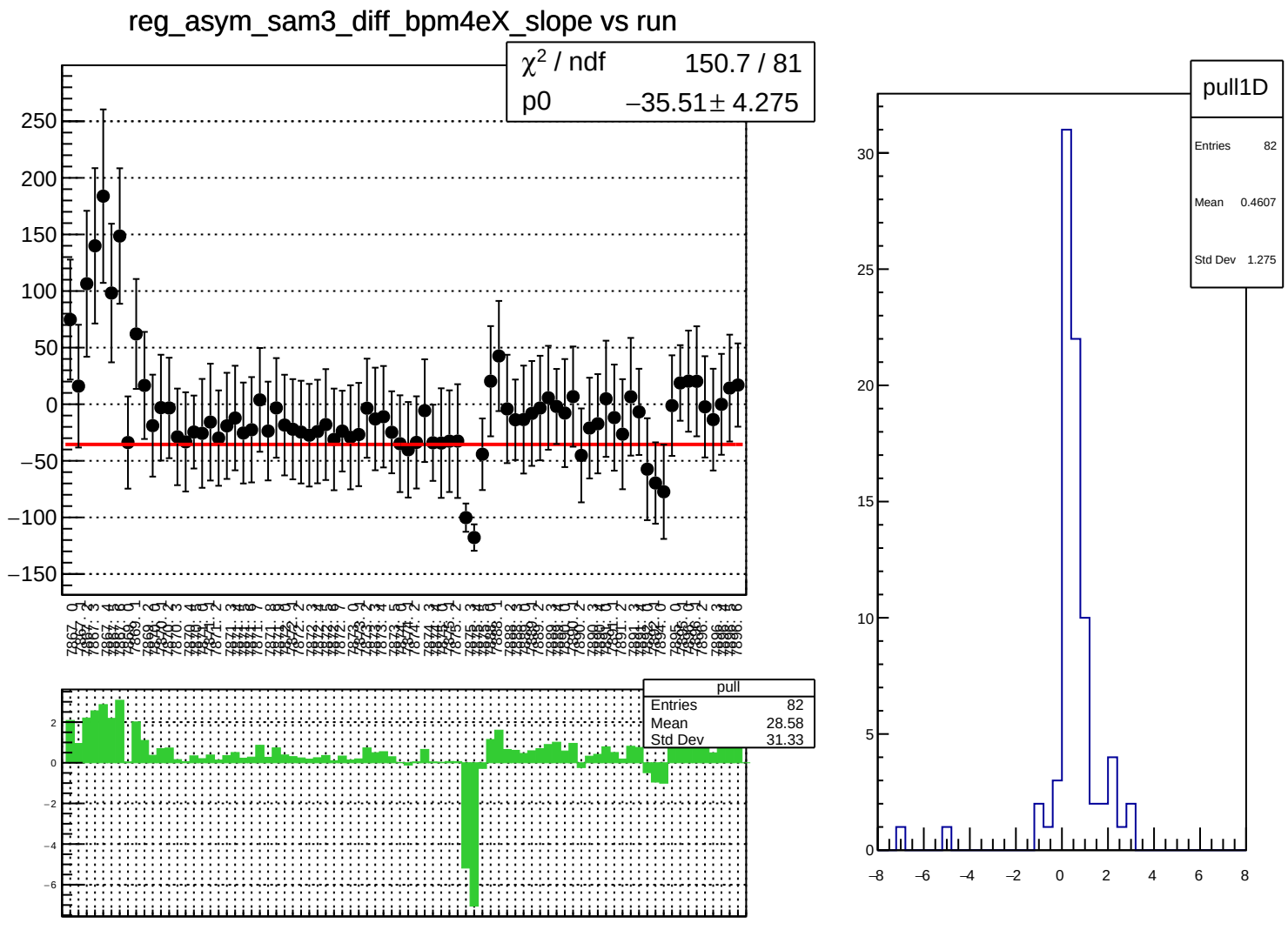

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.918 / 81
p0 −6.94 ± 10.39
pull
Entries 82
Mean 461.7
Std Dev 0
pull1D
Entries 82
Mean 0.002074
Std Dev 0.3298

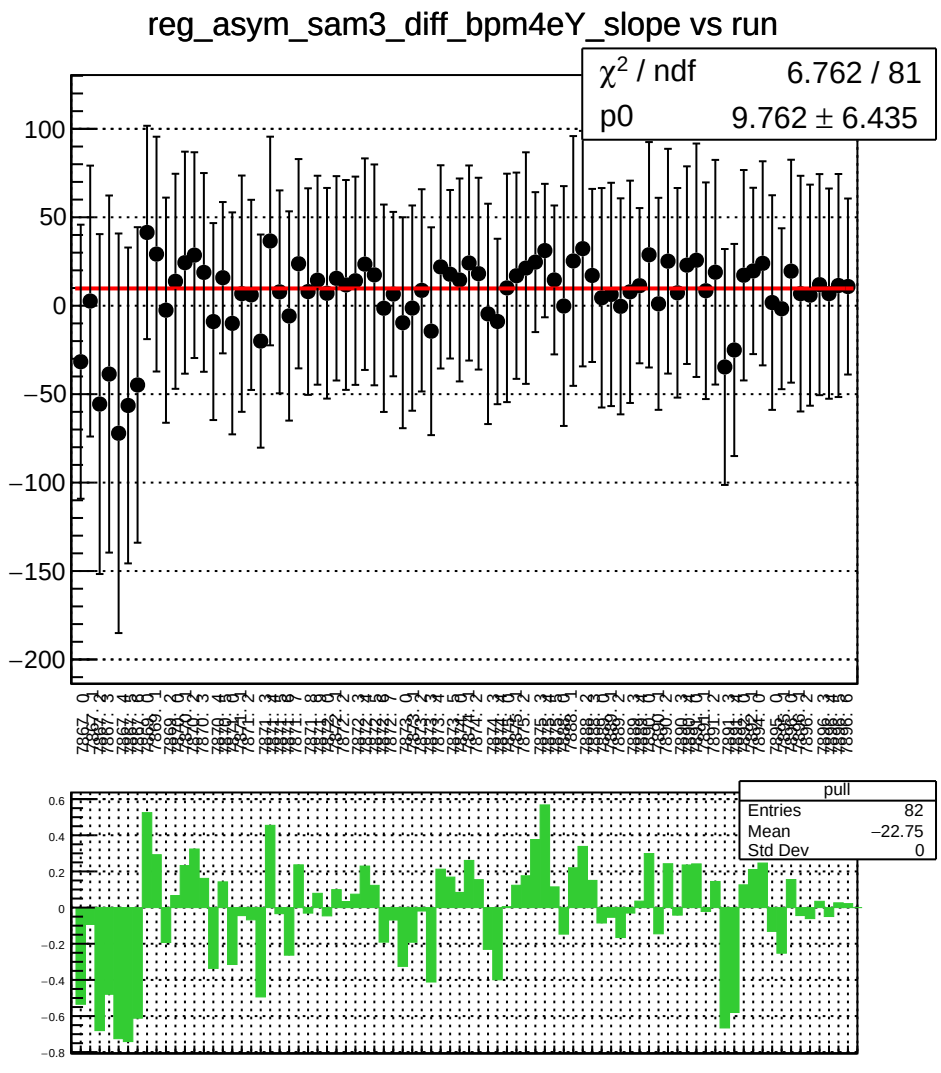

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 11.4 / 81
p0 0.5795 ± 0.3256
pull
Entries 82
Mean 4.999
Std Dev 40.96
pull1D
Entries 82
Mean −0.03122
Std Dev 0.3715

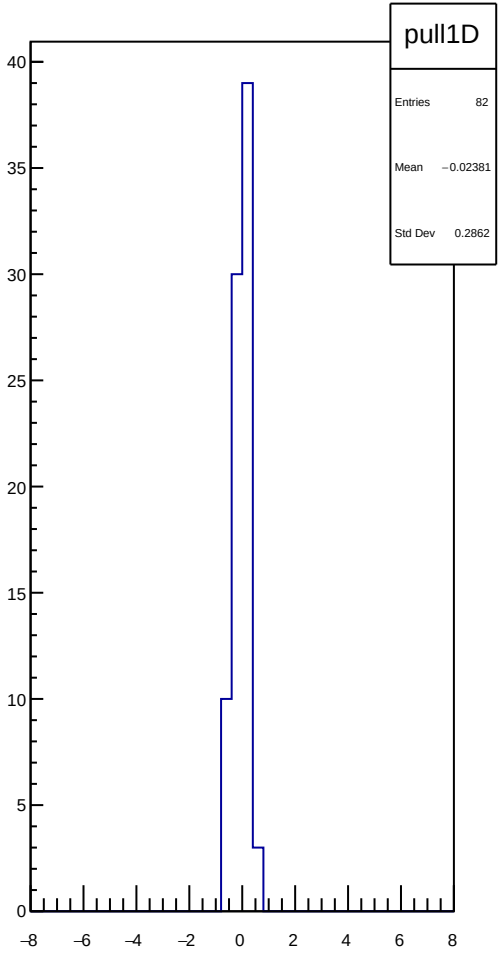

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 138.7 / 81
p0 −119.7 ± 5.044
pull
Entries 82
Mean 26.91
Std Dev 32.44

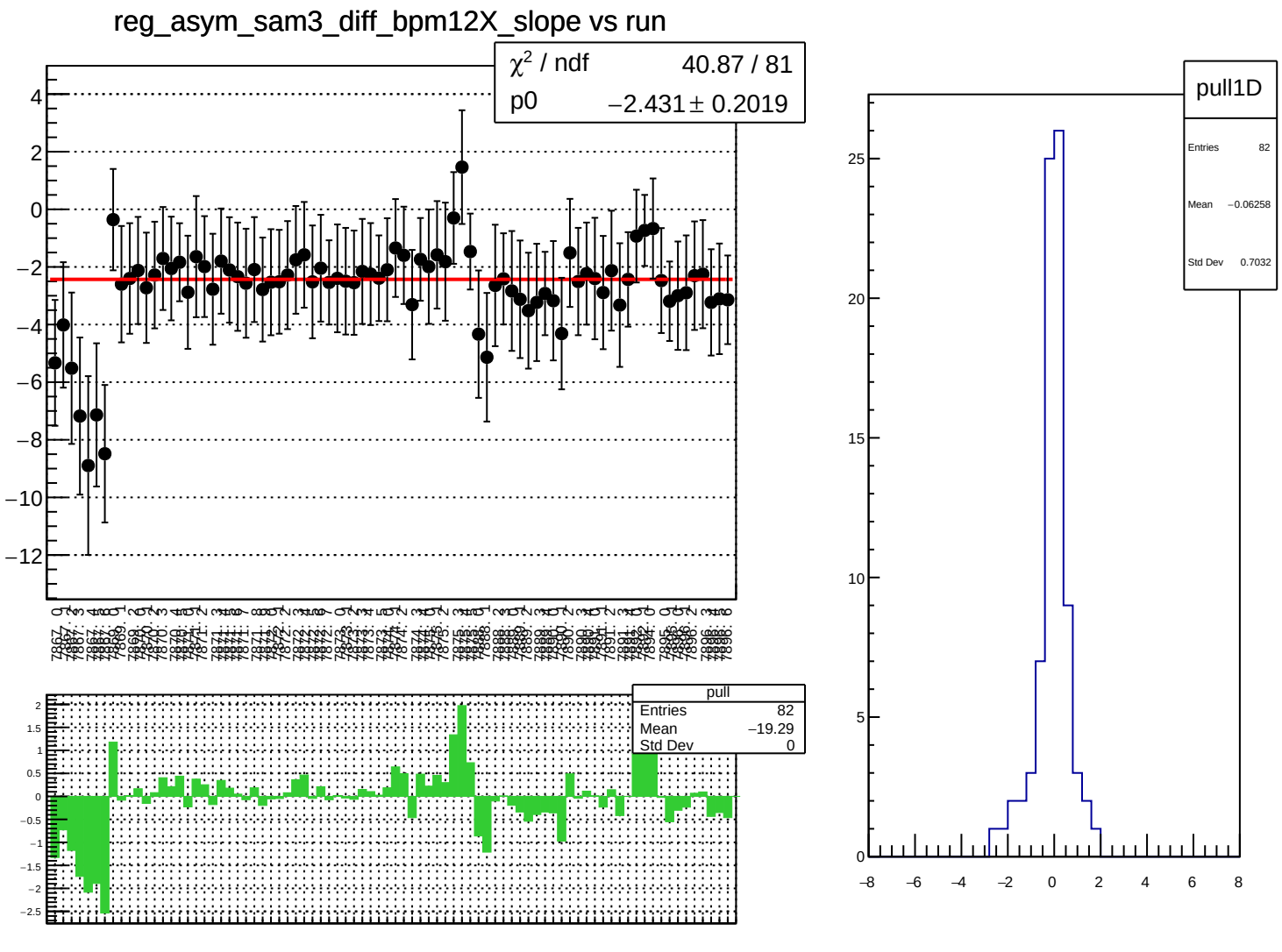

pull1D
Entries 82
Mean −0.3833
Std Dev 1.243

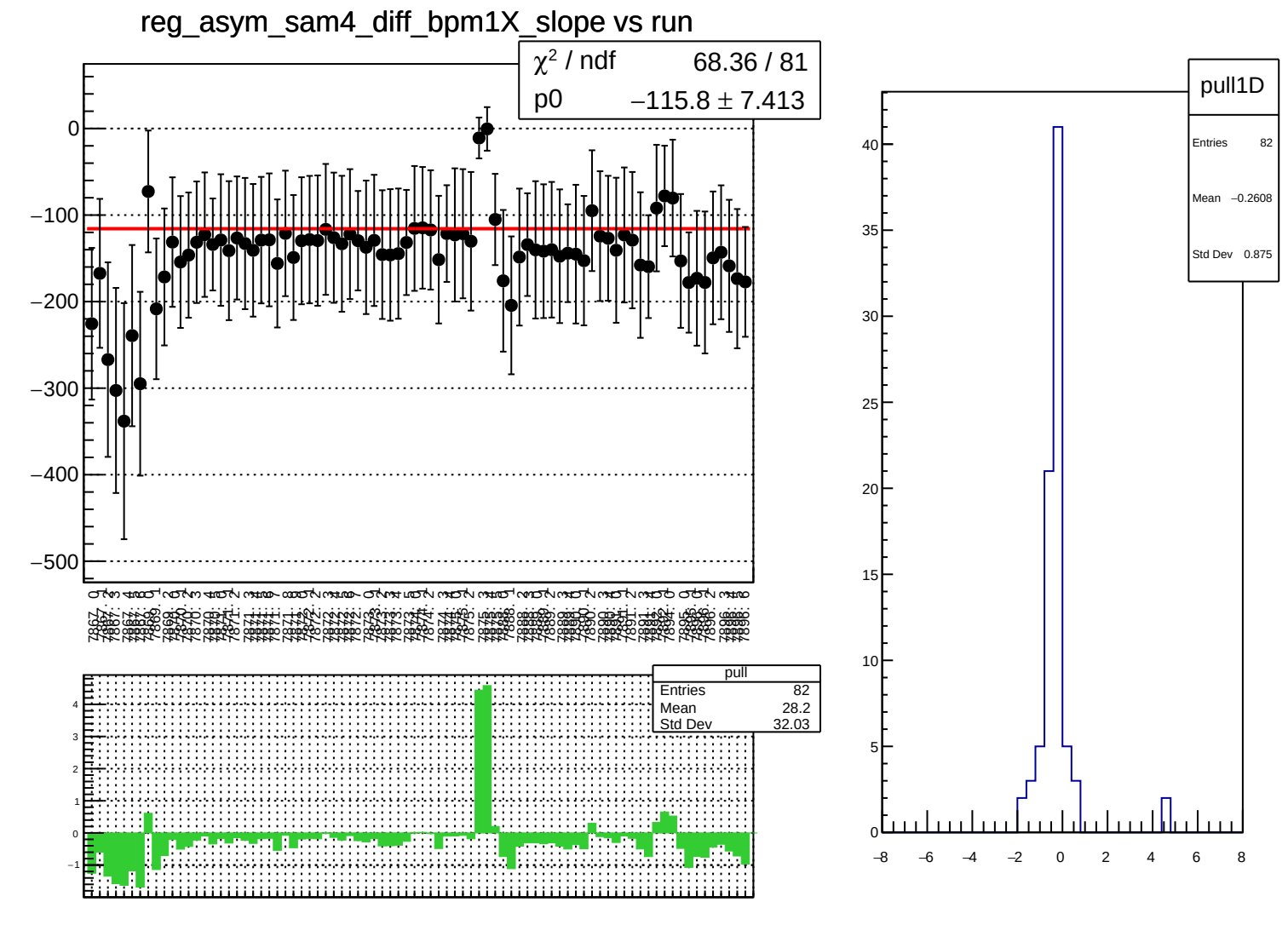

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.366 / 81
p0 9.573 ± 5.552
150
100
50
0
−50
pull
Entries 82
Mean 0.361
Std Dev 21.49
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.02831
Std Dev 0.2772
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

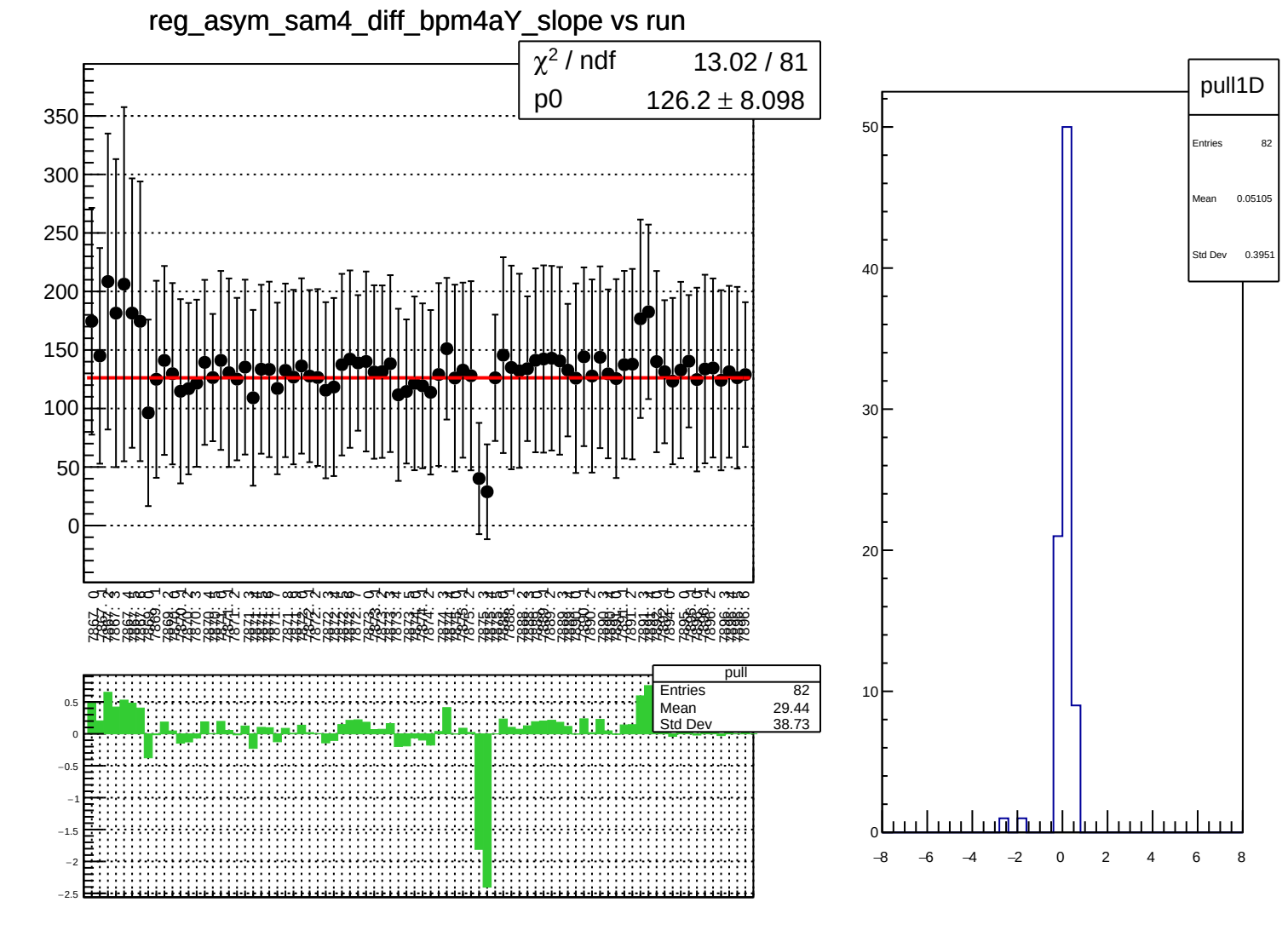

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 150.7 / 81
p0 −35.51 ± 4.275
pull
Entries 82
Mean 28.58
Std Dev 31.33
pull1D
Entries 82
Mean 0.4607
Std Dev 1.275

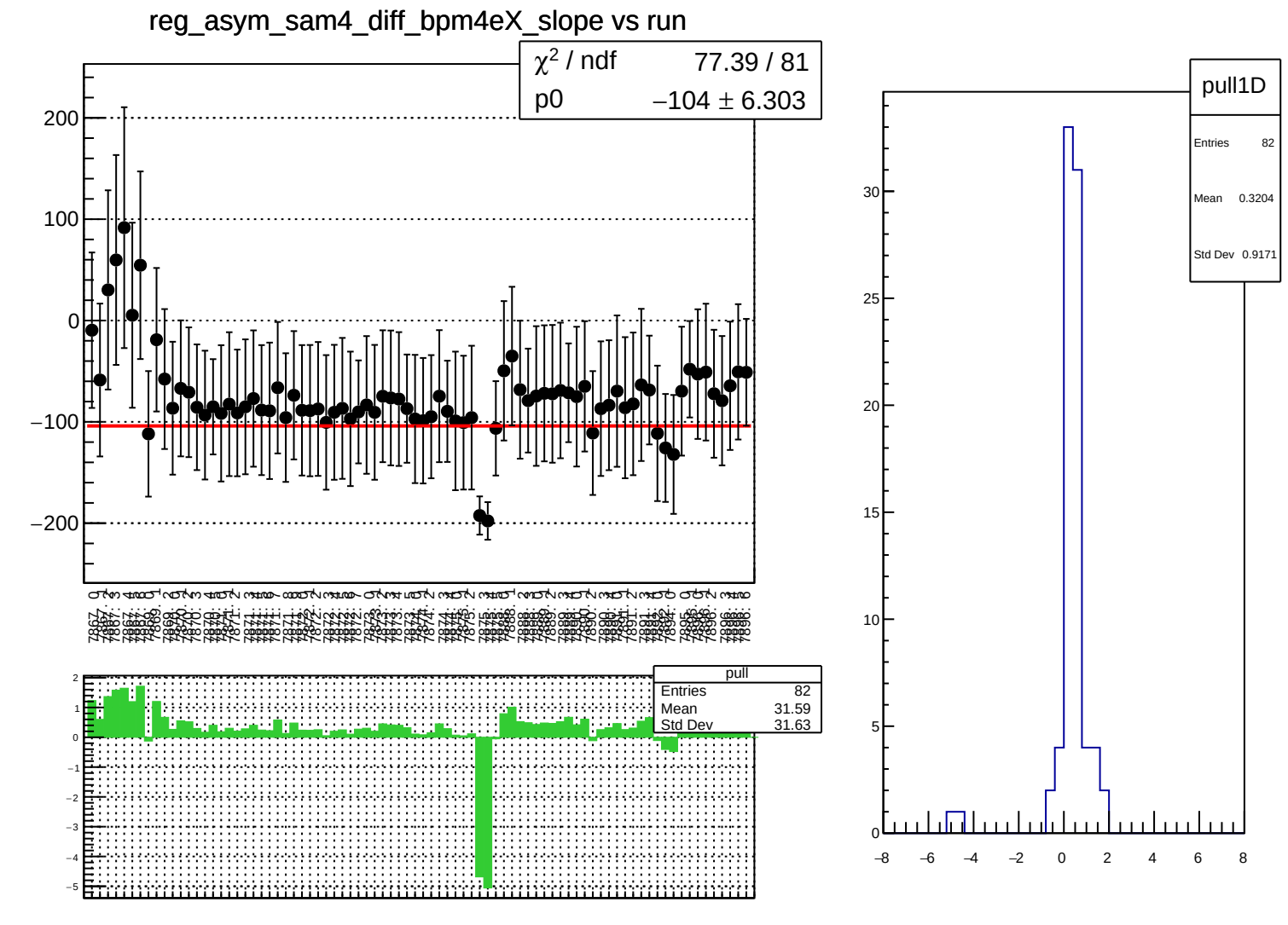

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 6.762 / 81
p0 9.762 ± 6.435
pull
Entries 82
Mean −22.75
Std Dev 0

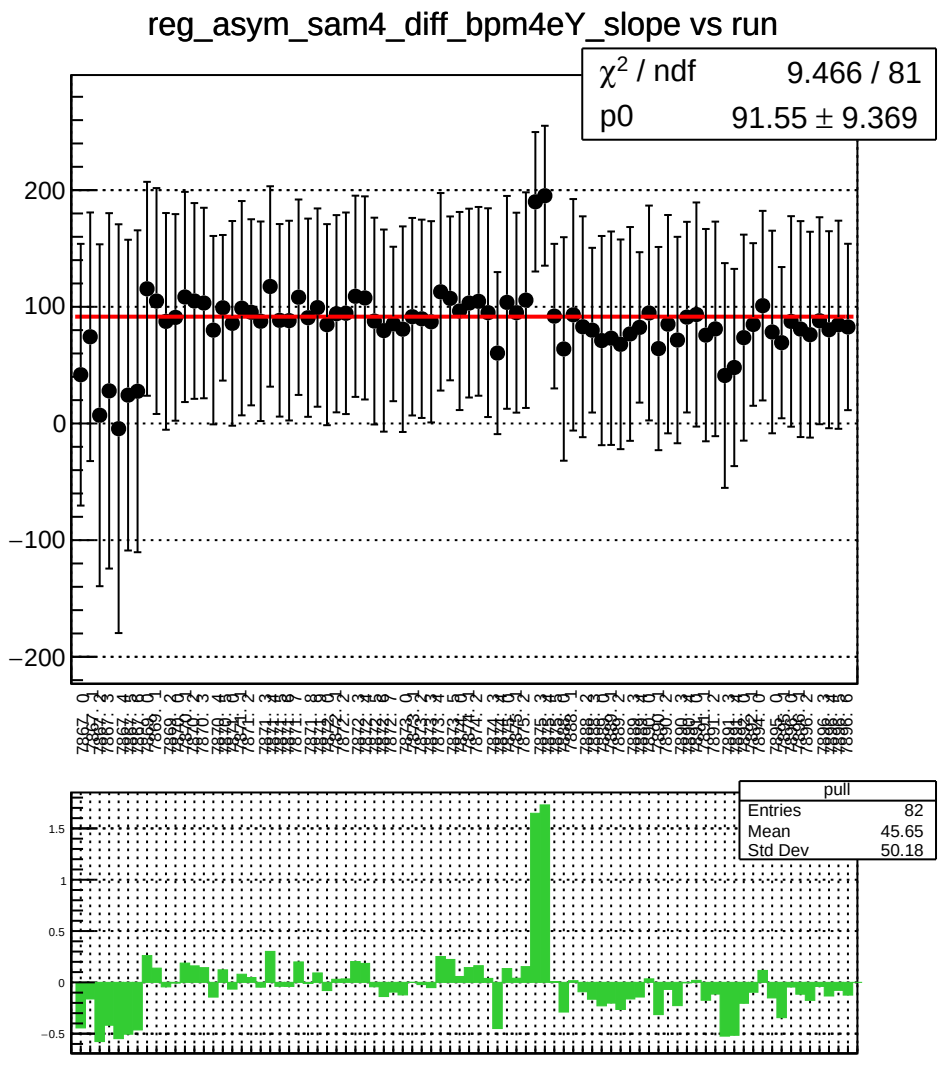

pull1D
Entries 82
Mean −0.02381
Std Dev 0.2862

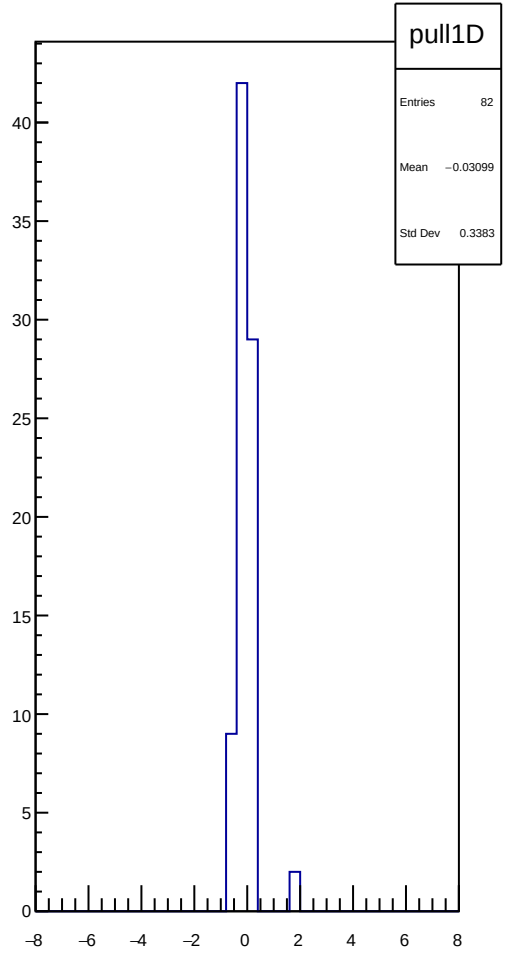

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 40.87 / 81
p0 −2.431 ± 0.2019
pull
Entries 82
Mean −19.29
Std Dev 0
pull1D
Entries 82
Mean −0.06258
Std Dev 0.7032

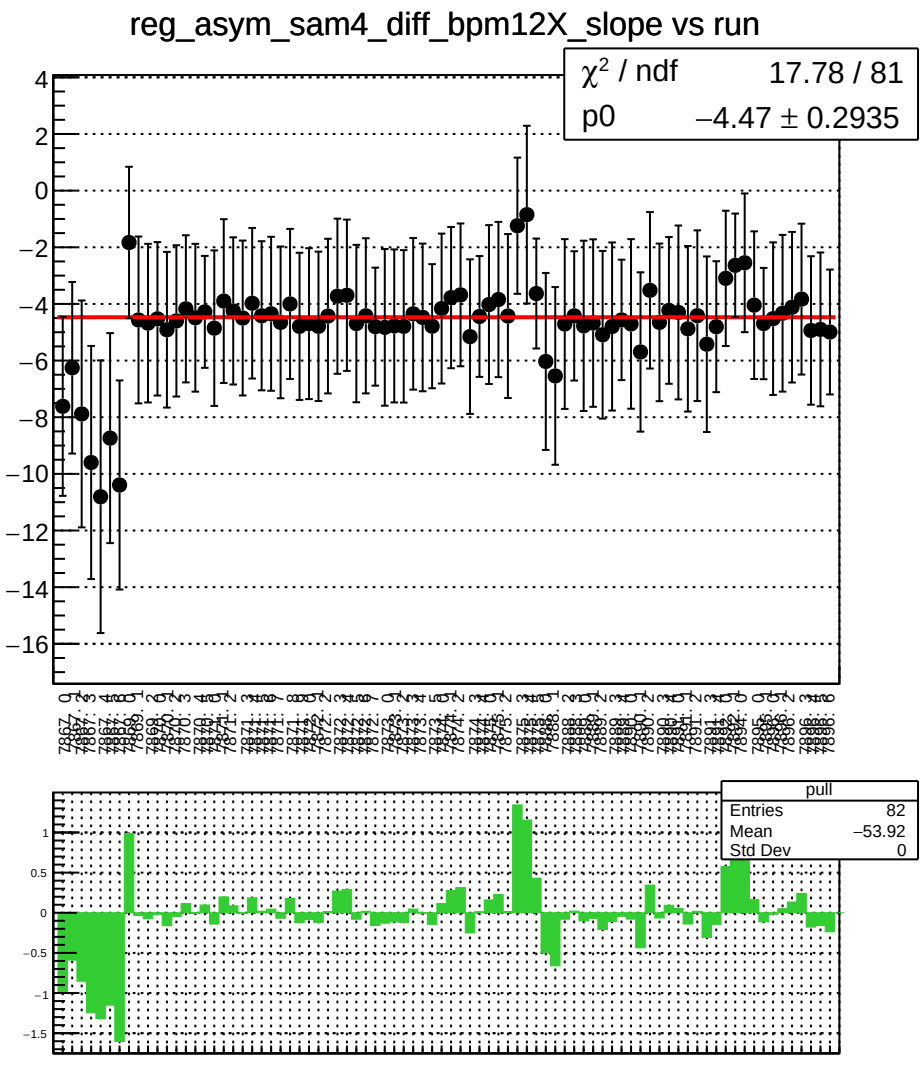

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 68.36 / 81
p0 −115.8 ± 7.413
pull
Entries 82
Mean 28.2
Std Dev 32.03
pull1D
Entries 82
Mean −0.2608
Std Dev 0.875

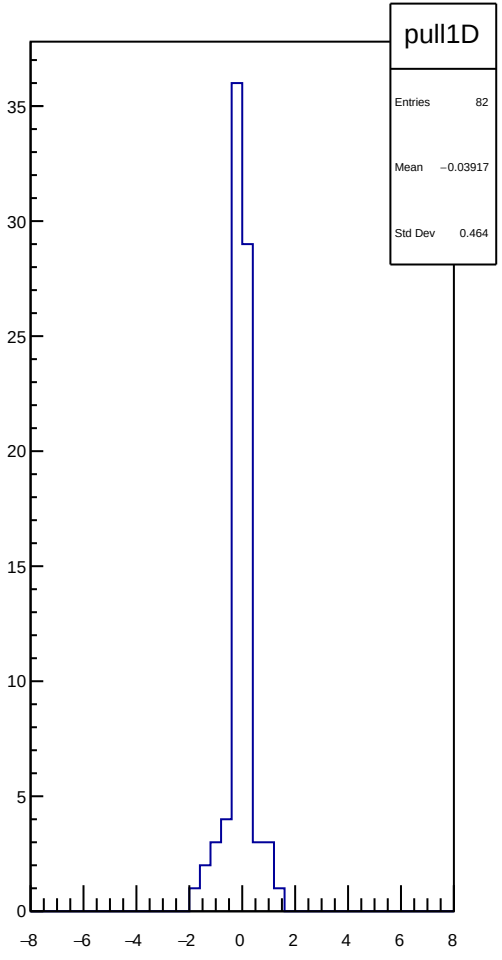

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 13.02 / 81
p0 126.2 ± 8.098
pull
Entries 82
Mean 29.44
Std Dev 38.73
pull1D
Entries 82
Mean 0.05105
Std Dev 0.3951

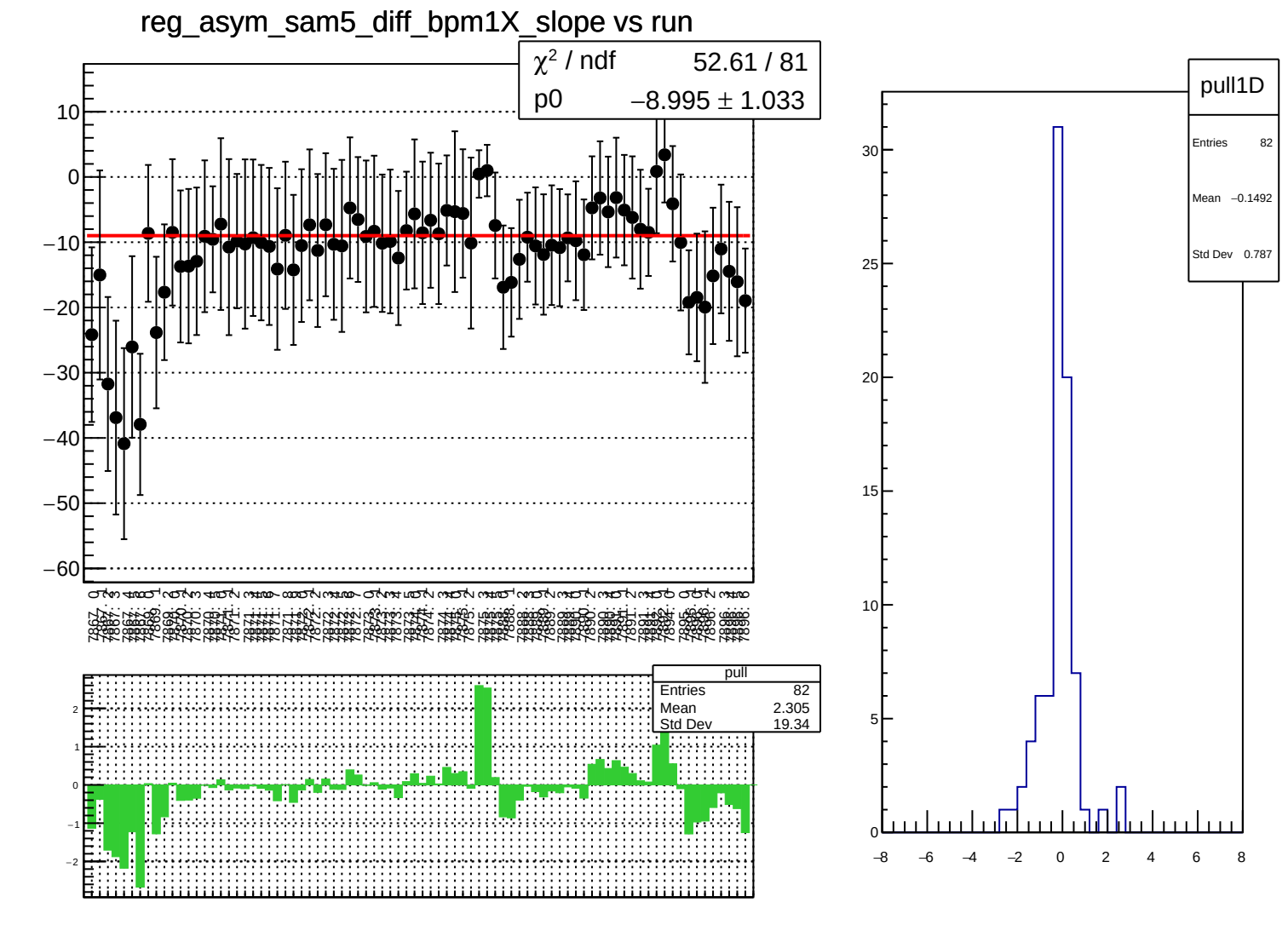

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 77.39 / 81
p0 −104 ± 6.303
200
100
0
−100
−200
pull
Entries 82
Mean 31.59
Std Dev 31.63
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 82
Mean 0.3204
Std Dev 0.9171
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

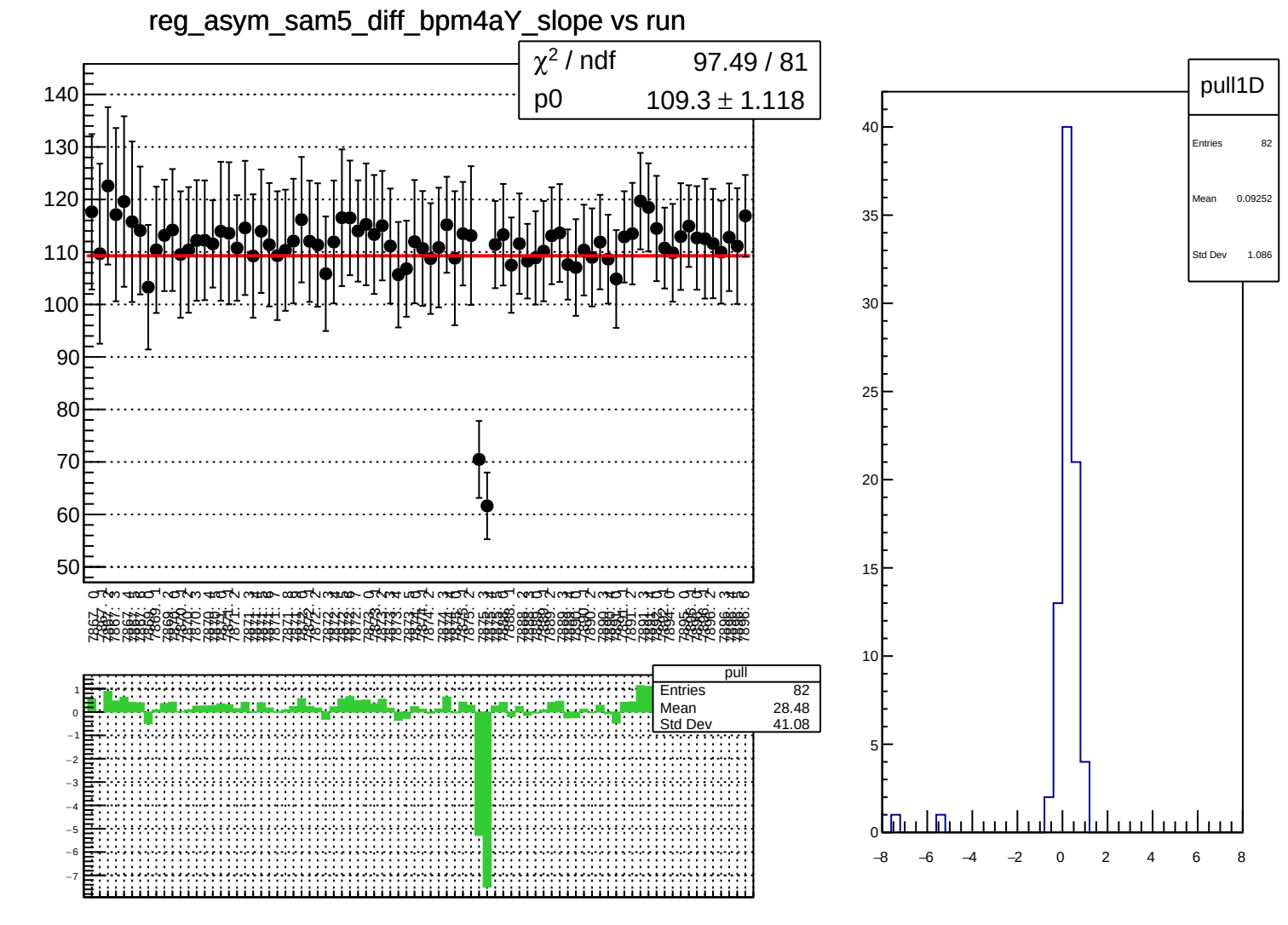

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 9.466 / 81
p0 91.55 ± 9.369
200
100
0
−100
−200
pull
Entries 82
Mean 45.65
Std Dev 50.18
1.5
1
0.5
0
−0.5

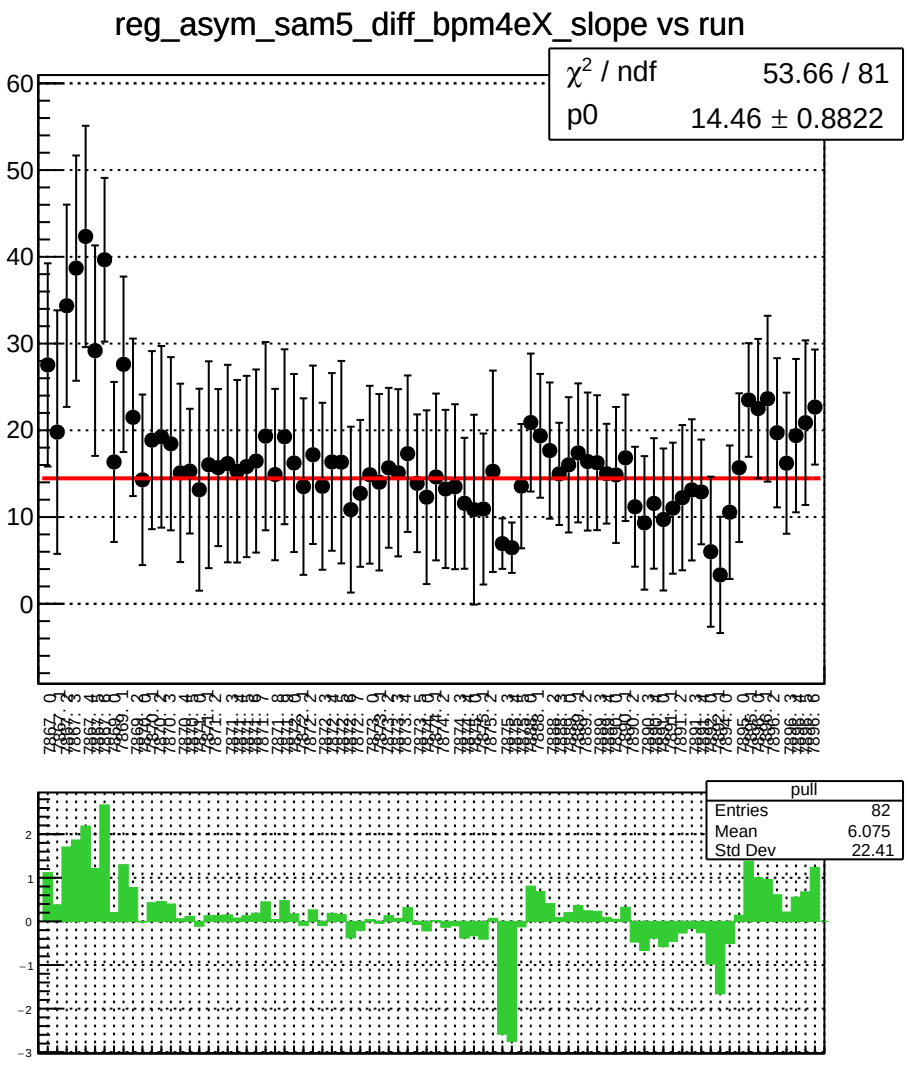

pull1D
Entries 82
Mean −0.03099
Std Dev 0.3383
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

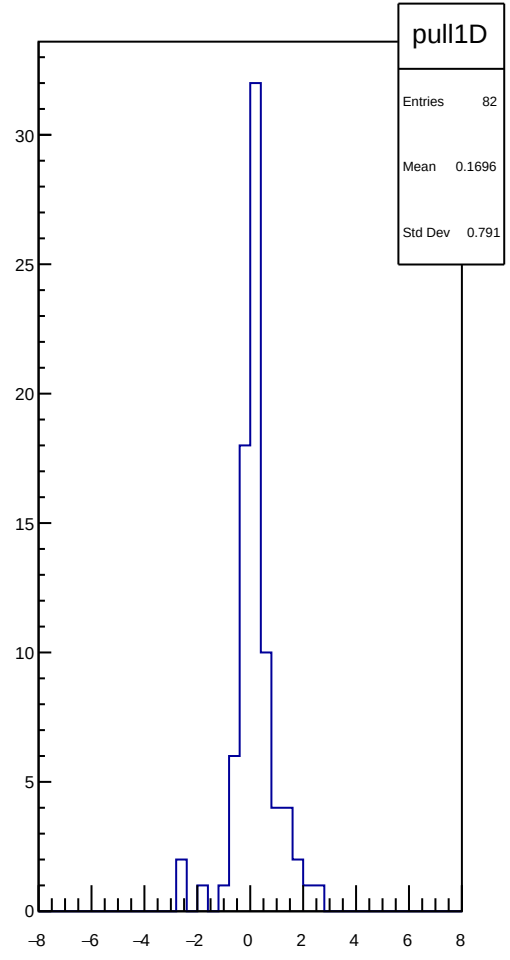

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 17.78 / 81
p0 −4.47 ± 0.2935
pull
Entries 82
Mean −53.92
Std Dev 0

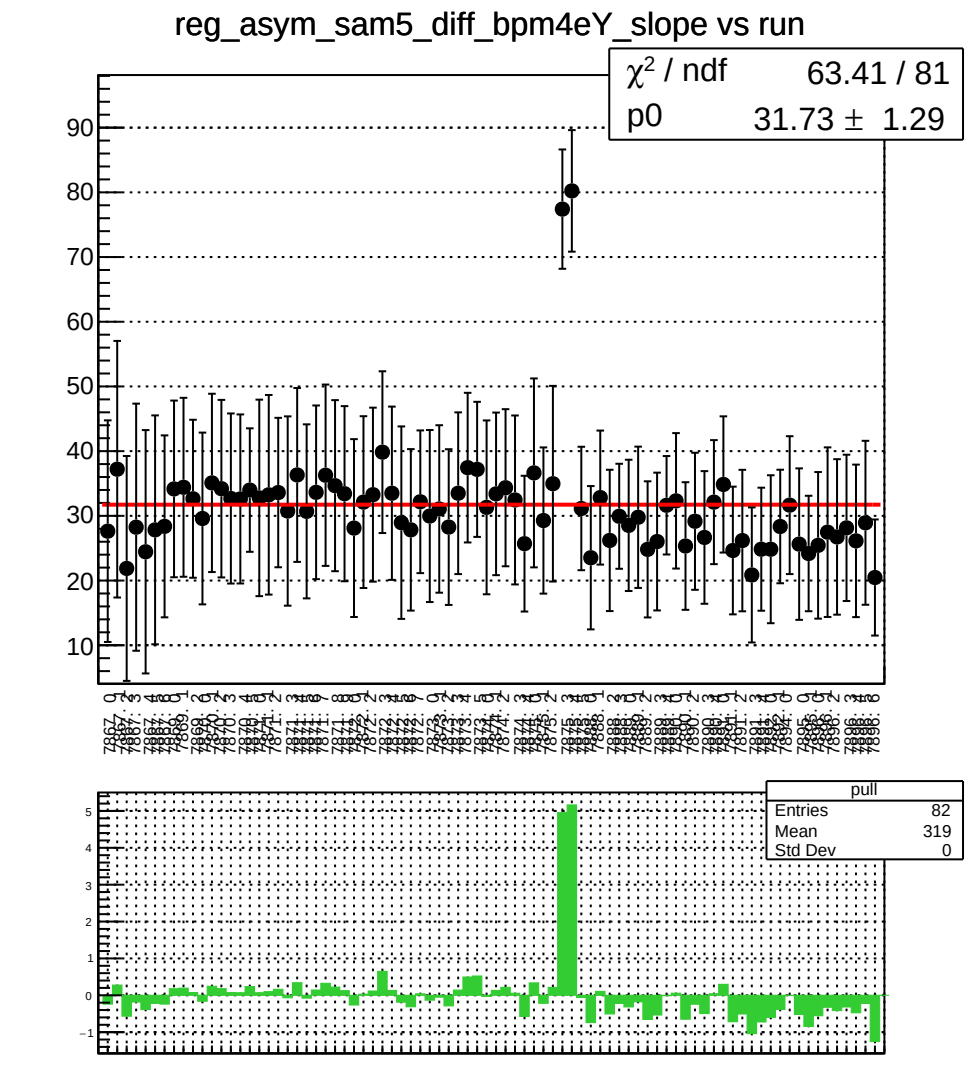

pull1D
Entries 82
Mean −0.03917
Std Dev 0.464

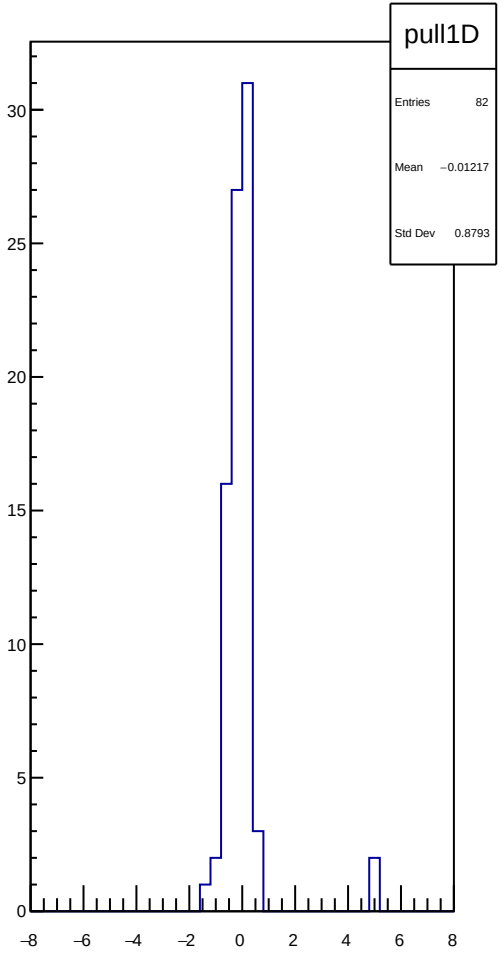

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 52.61 / 81
p0 −8.995 ± 1.033
pull
Entries 82
Mean 2.305
Std Dev 19.34
pull1D
Entries 82
Mean −0.1492
Std Dev 0.787

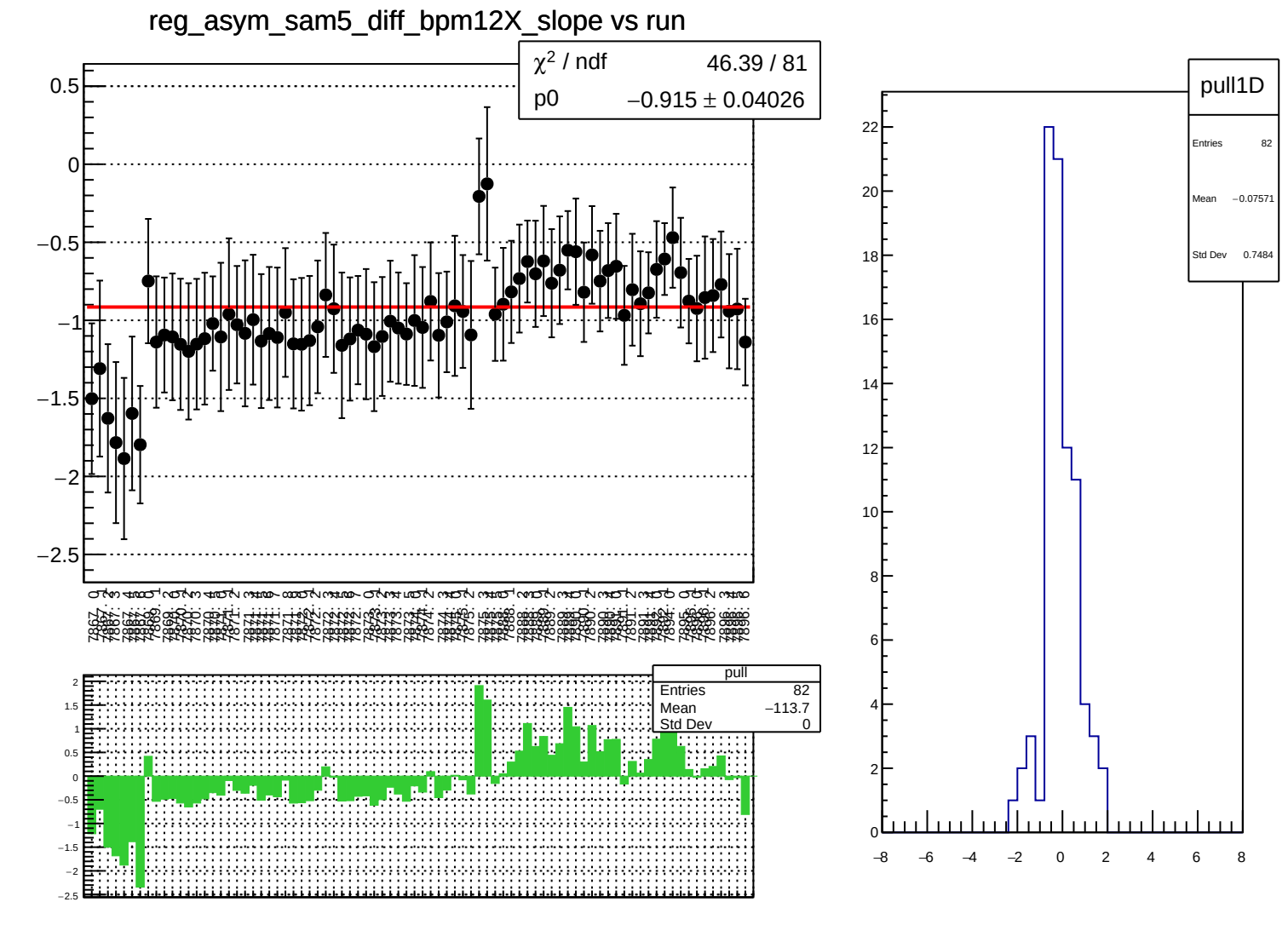

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 97.49 / 81
p0 109.3 ± 1.118
pull
Entries 82
Mean 28.48
Std Dev 41.08
pull1D
Entries 82
Mean 0.09252
Std Dev 1.086

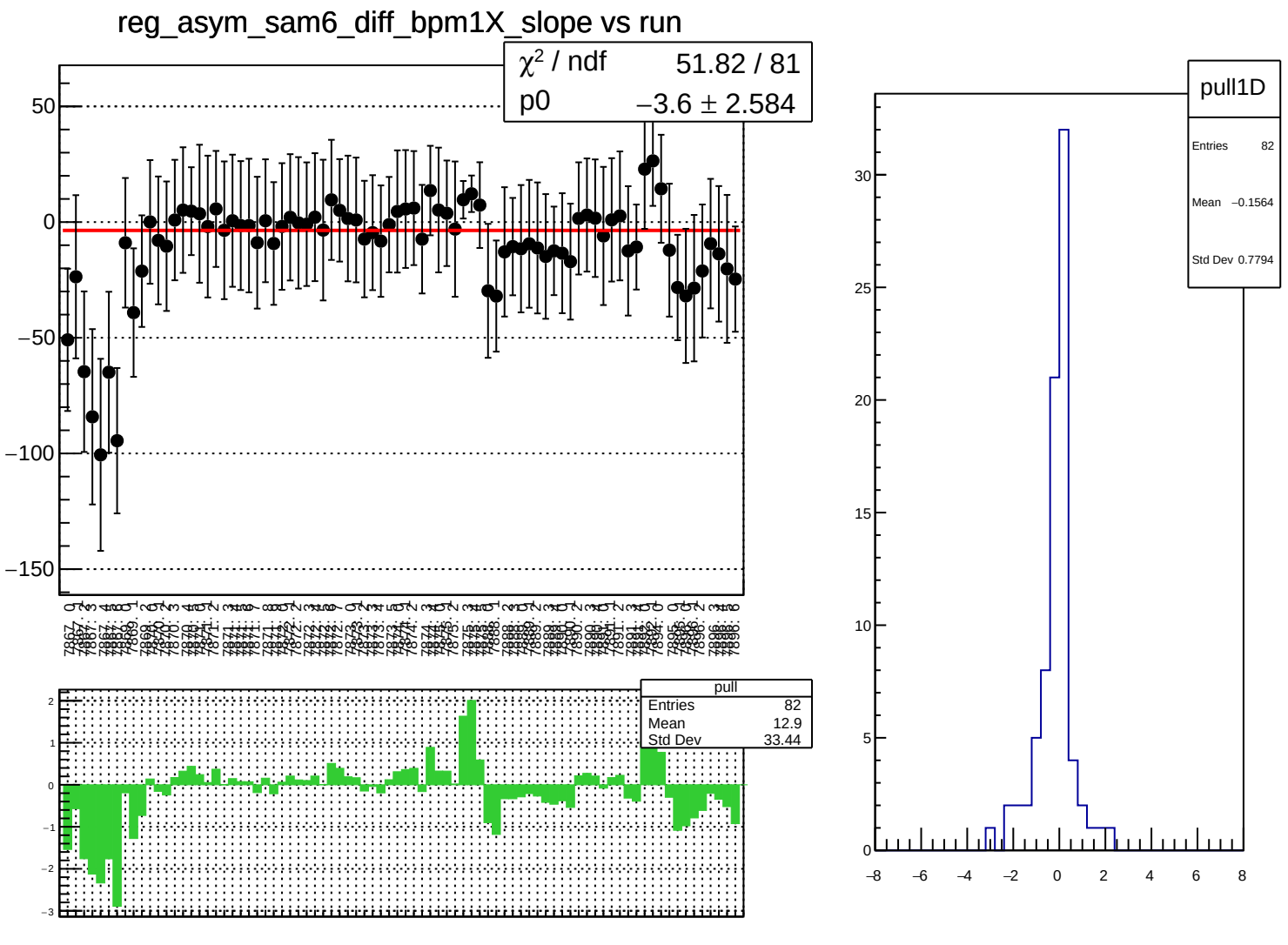

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 53.66 / 81
p0 14.46 ± 0.8822
pull
Entries 82
Mean 6.075
Std Dev 22.41

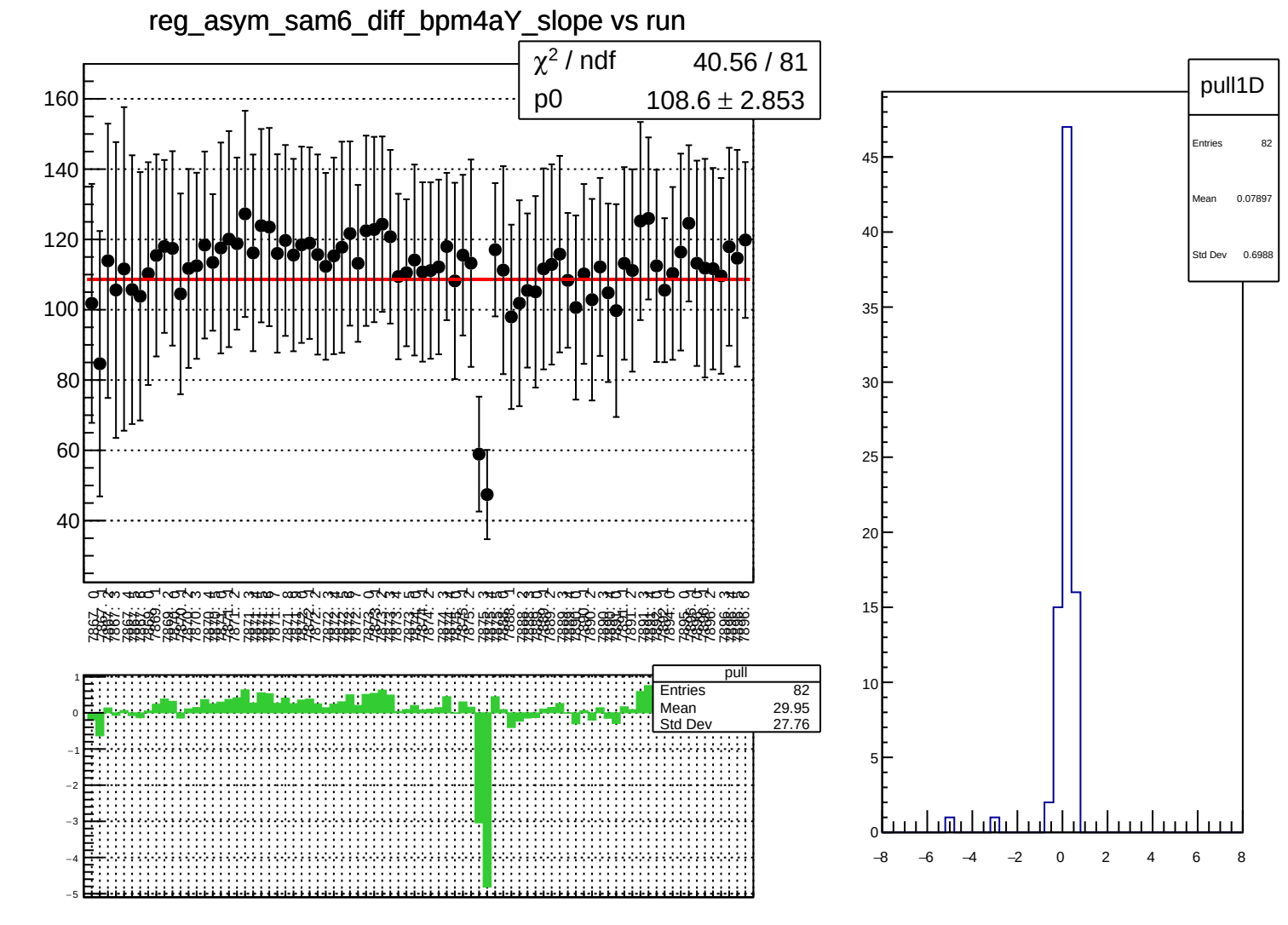

pull1D
Entries 82
Mean 0.1696
Std Dev 0.791

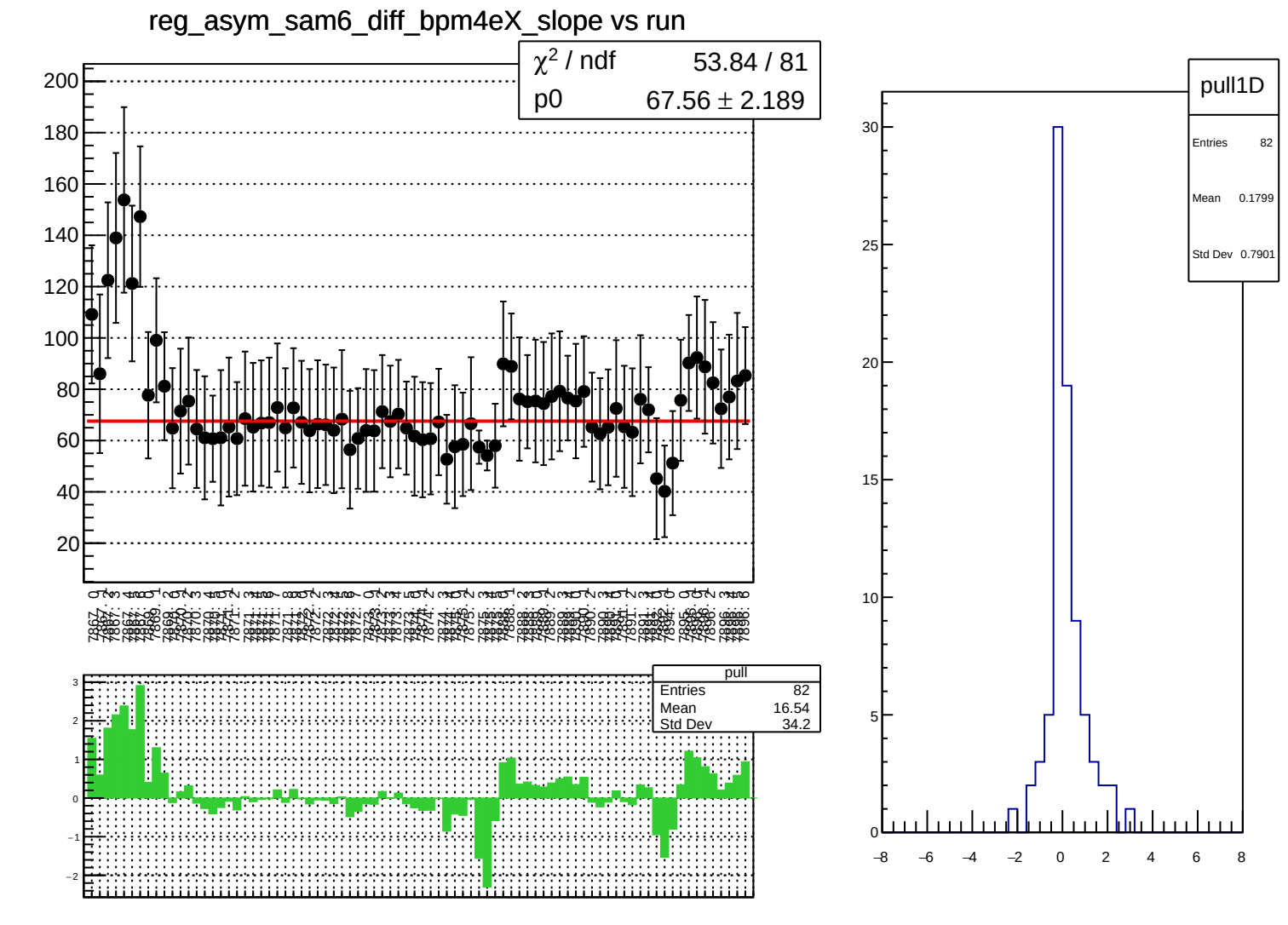

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 63.41 / 81
p0 31.73 ± 1.29
pull
Entries 82
Mean 319
Std Dev 0

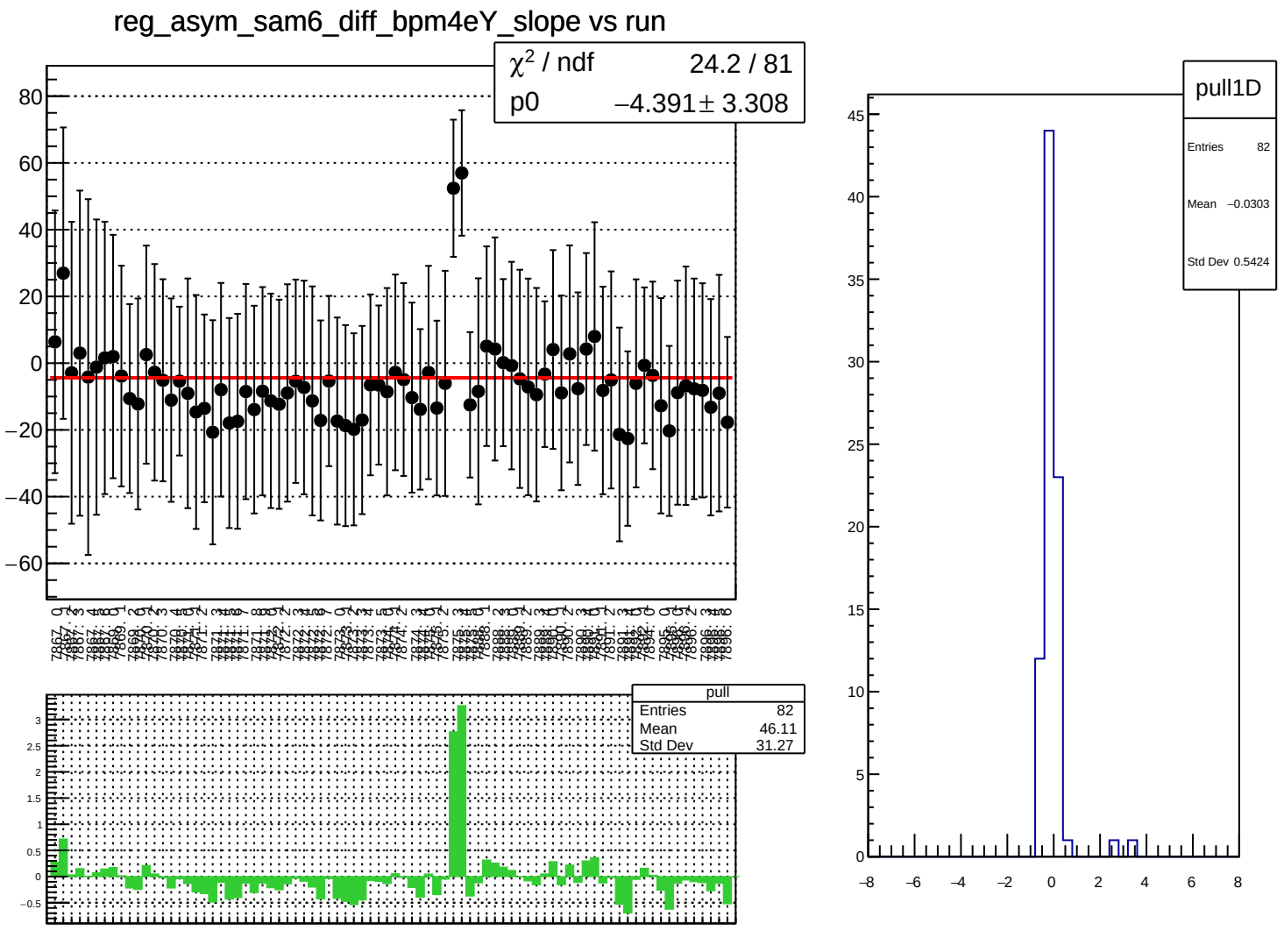

pull1D
Entries 82
Mean −0.01217
Std Dev 0.8793

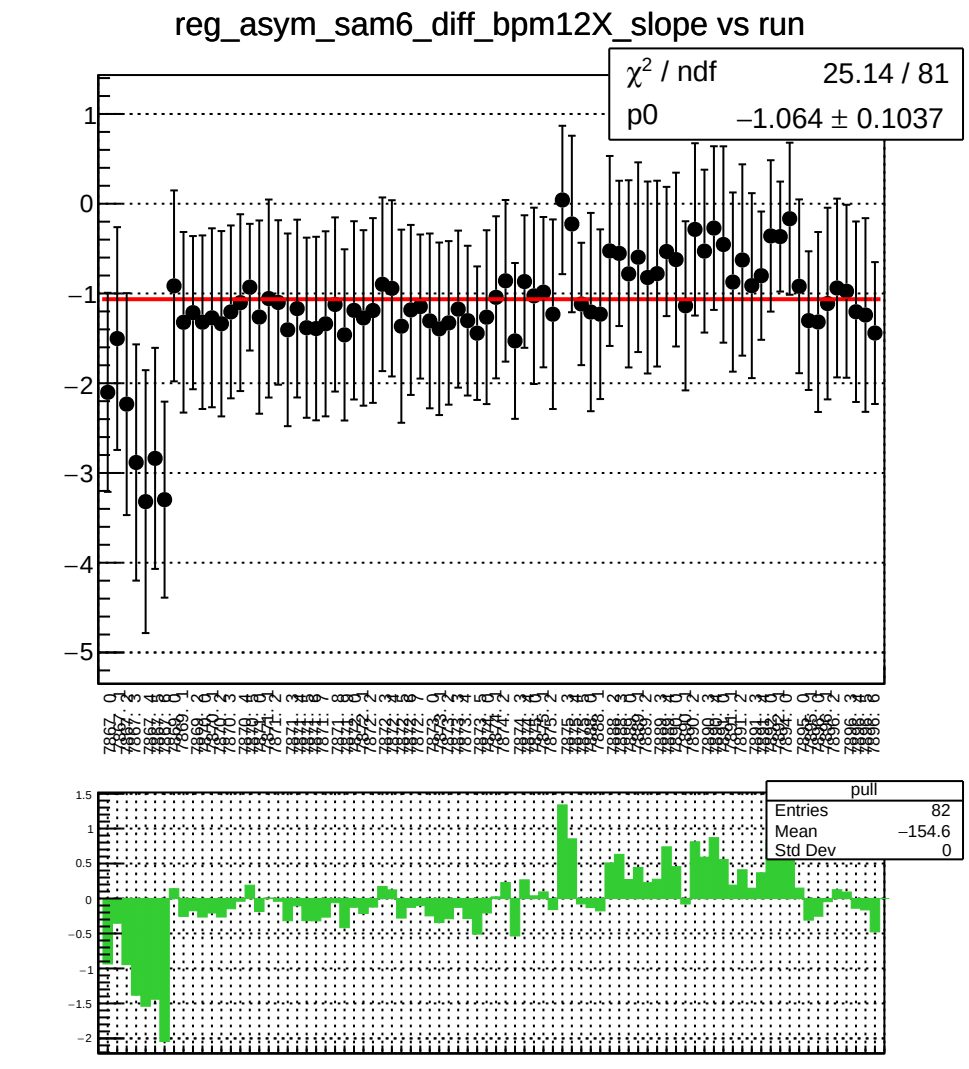

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 46.39 / 81
p0 −0.915 ± 0.04026
pull
Entries 82
Mean −113.7
Std Dev 0
pull1D
Entries 82
Mean −0.07571
Std Dev 0.7484

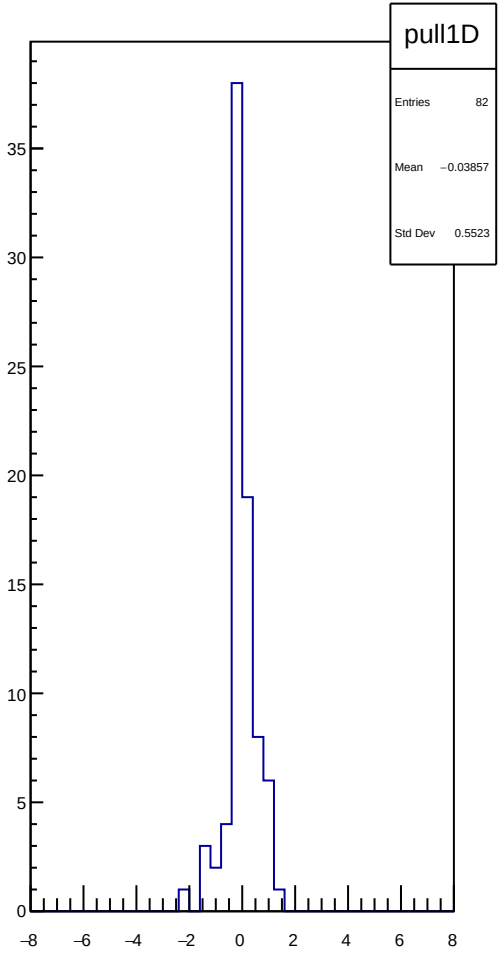

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 51.82 / 81
p0 −3.6 ± 2.584
pull
Entries 82
Mean 12.9
Std Dev 33.44
pull1D
Entries 82
Mean −0.1564
Std Dev 0.7794

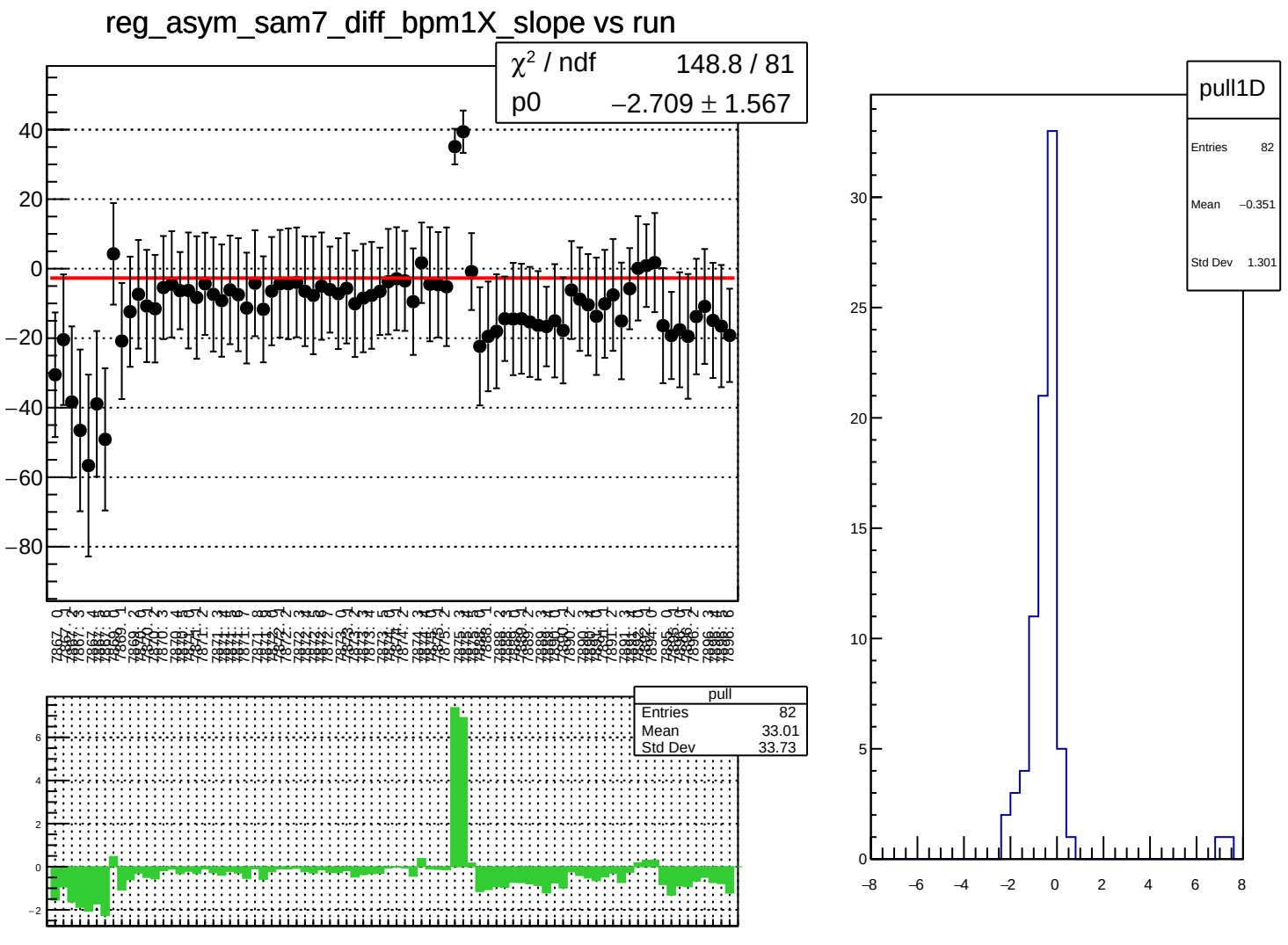

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 40.56 / 81
p0 108.6 ± 2.853
pull
Entries 82
Mean 29.95
Std Dev 27.76
pull1D
Entries 82
Mean 0.07897
Std Dev 0.6988

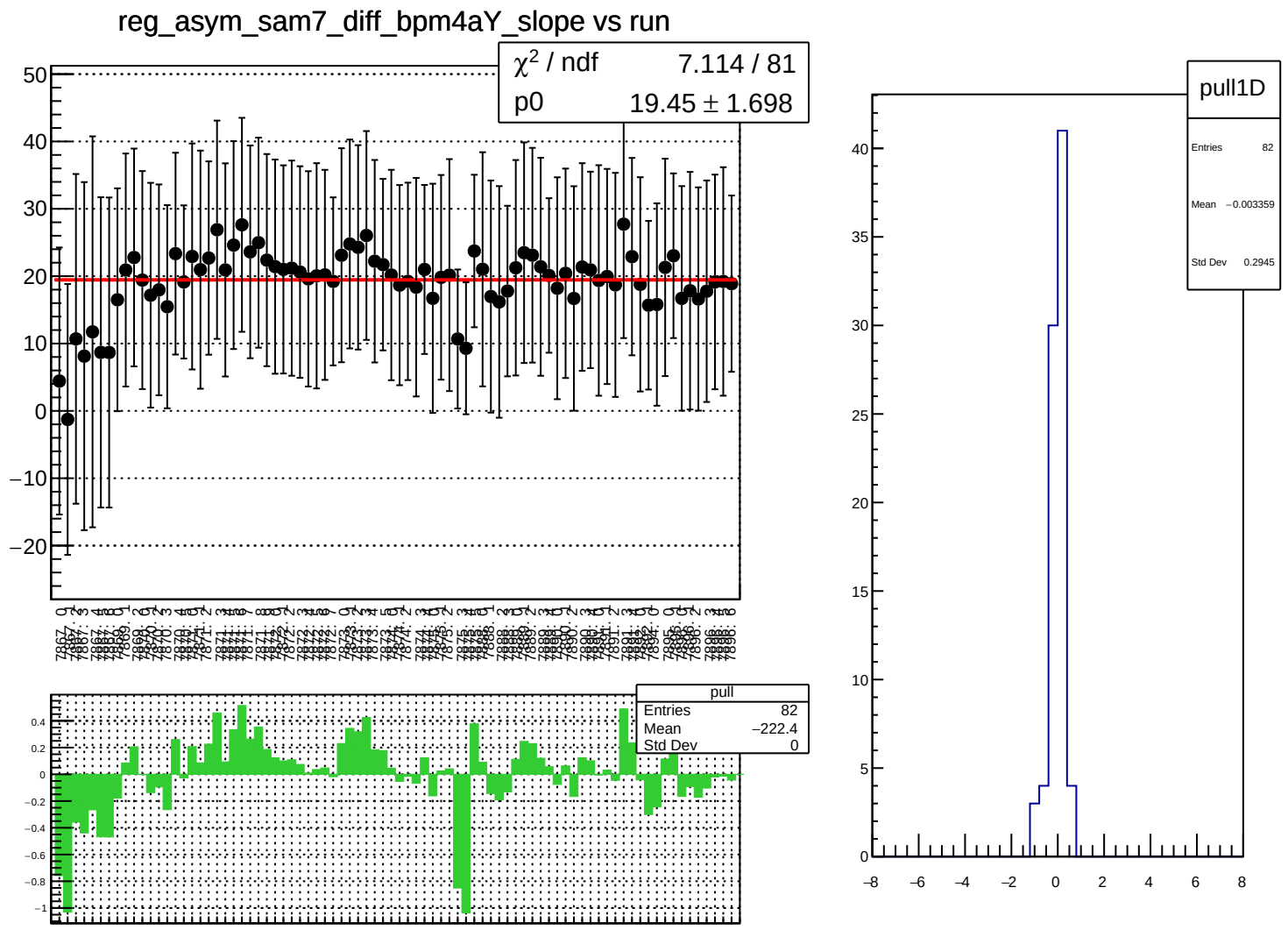

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 53.84 / 81
p0 67.56 ± 2.189
pull
Entries 82
Mean 16.54
Std Dev 34.2
pull1D
Entries 82
Mean 0.1799
Std Dev 0.7901

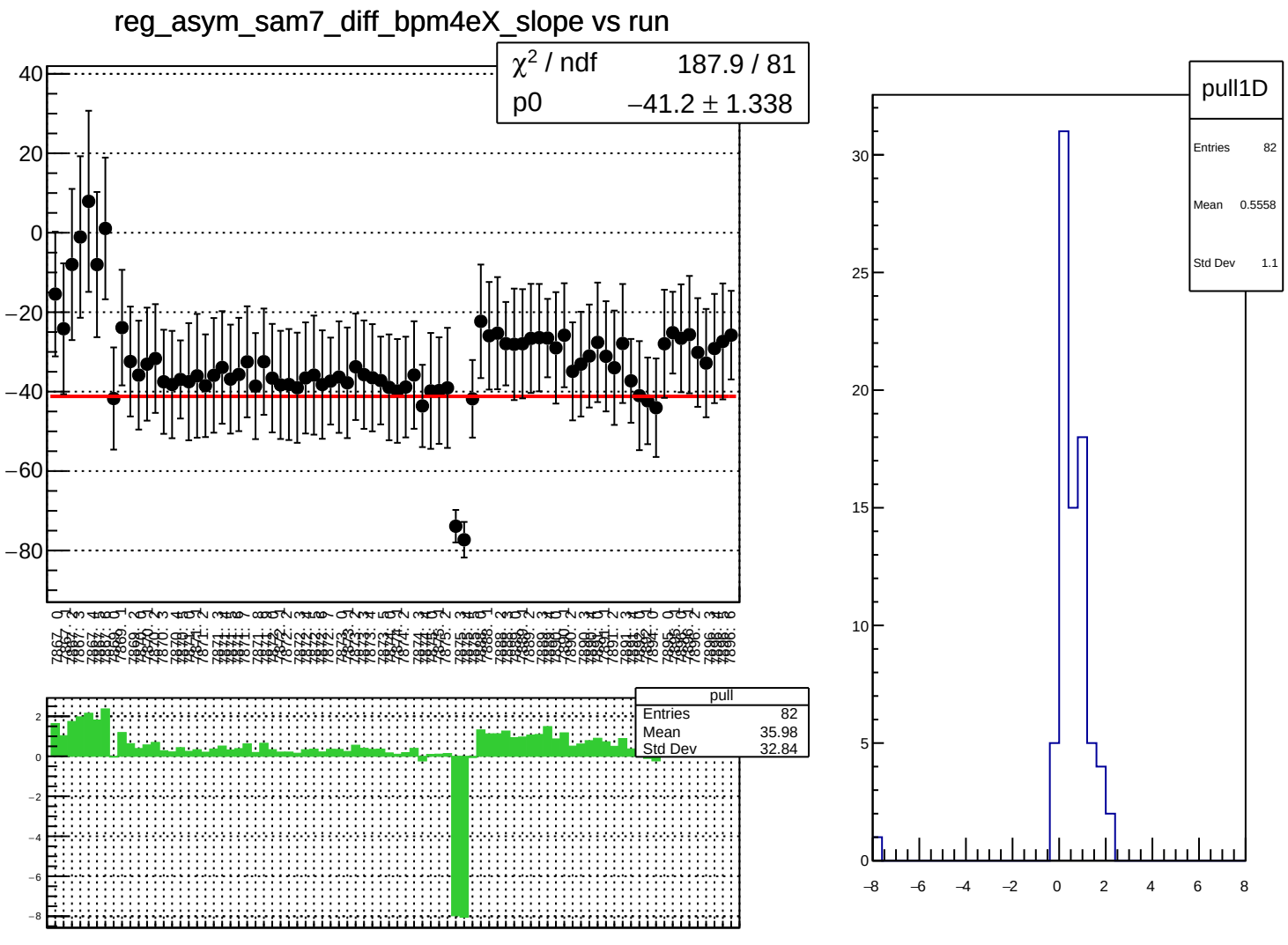

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 24.2 / 81
p0 −4.391 ± 3.308
pull
Entries 82
Mean 46.11
Std Dev 31.27
pull1D
Entries 82
Mean −0.0303
Std Dev 0.5424

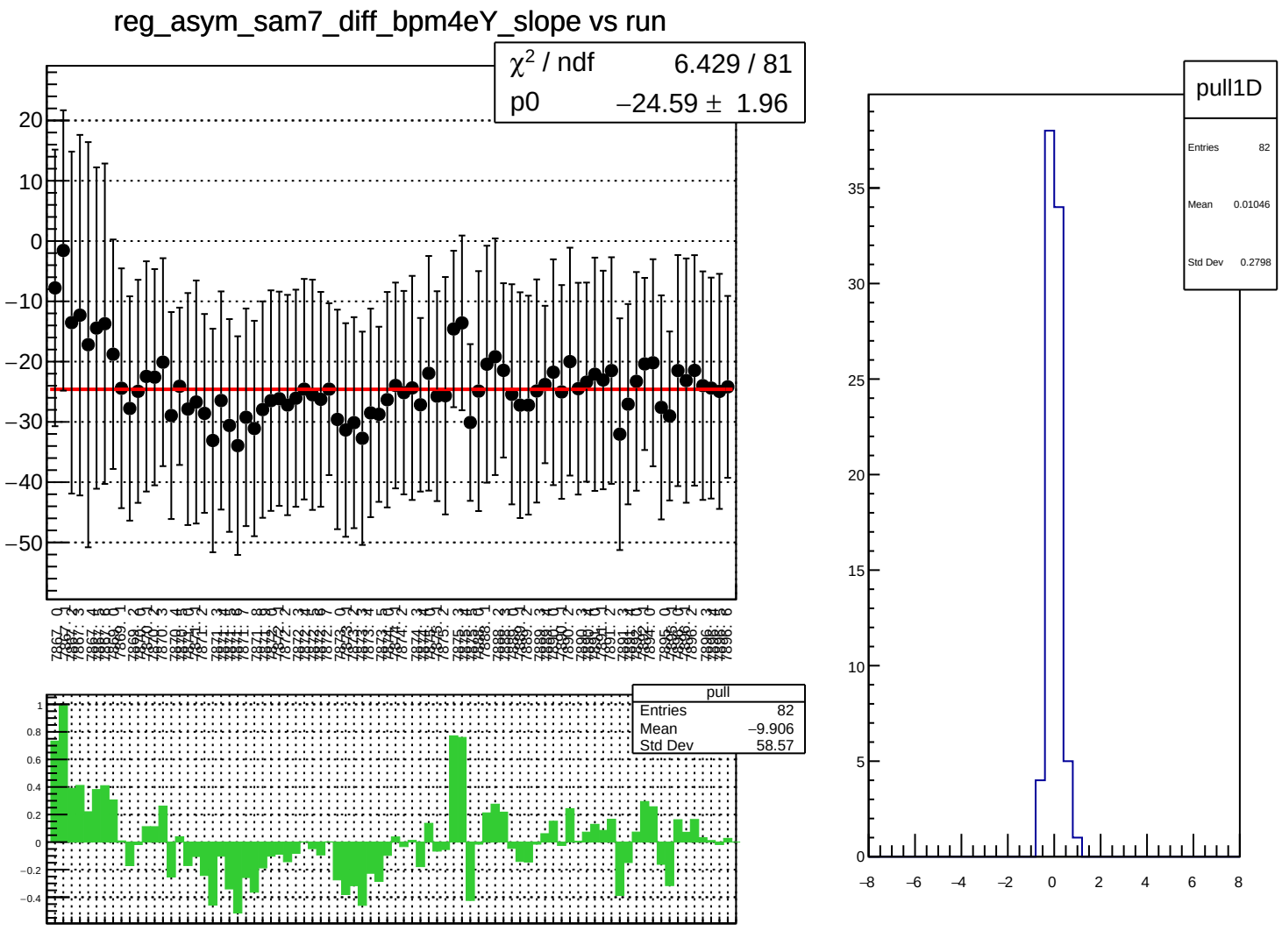

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 25.14 / 81
p0 −1.064 ± 0.1037
pull
Entries 82
Mean −154.6
Std Dev 0

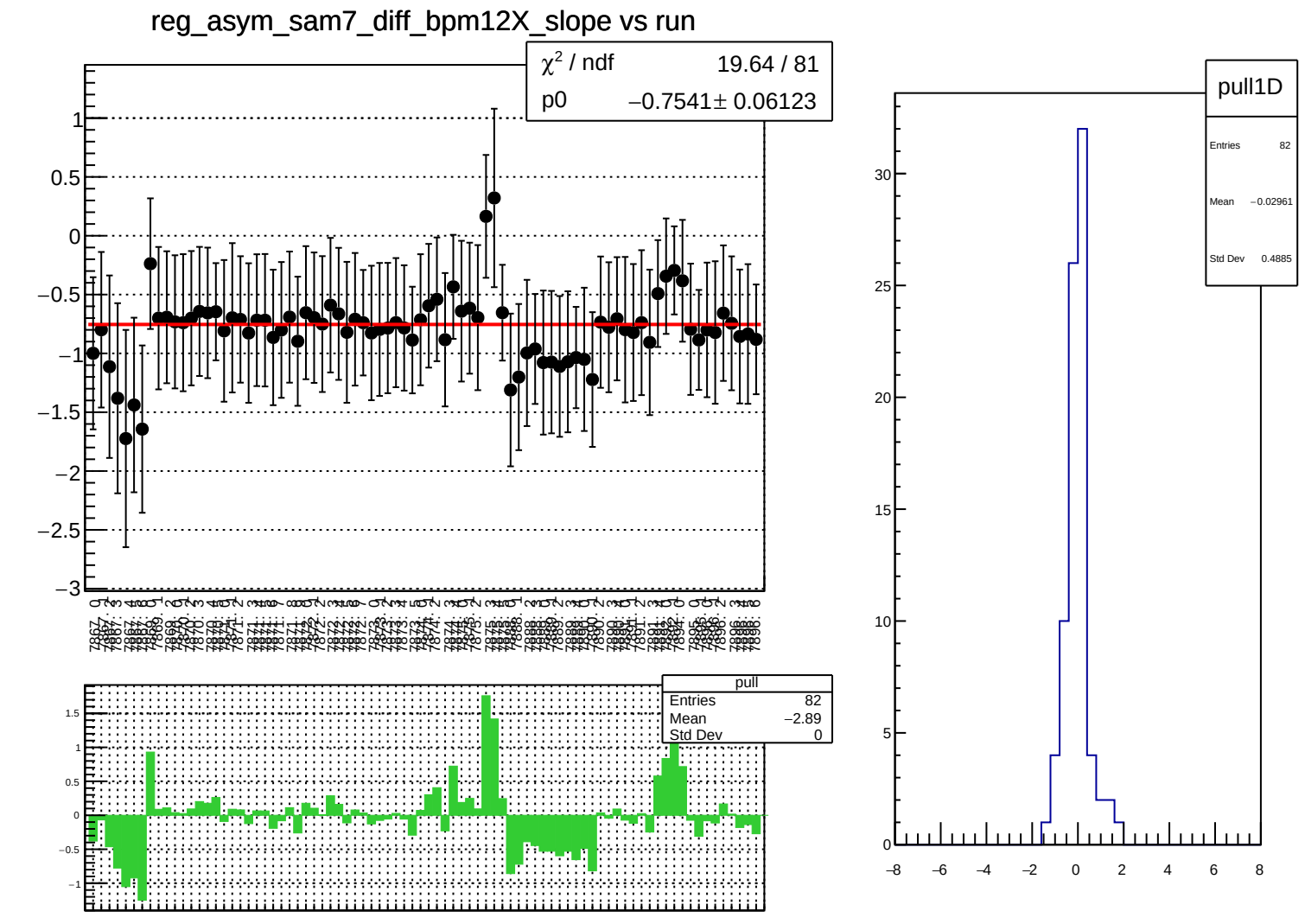

pull1D
Entries 82
Mean −0.03857
Std Dev 0.5523

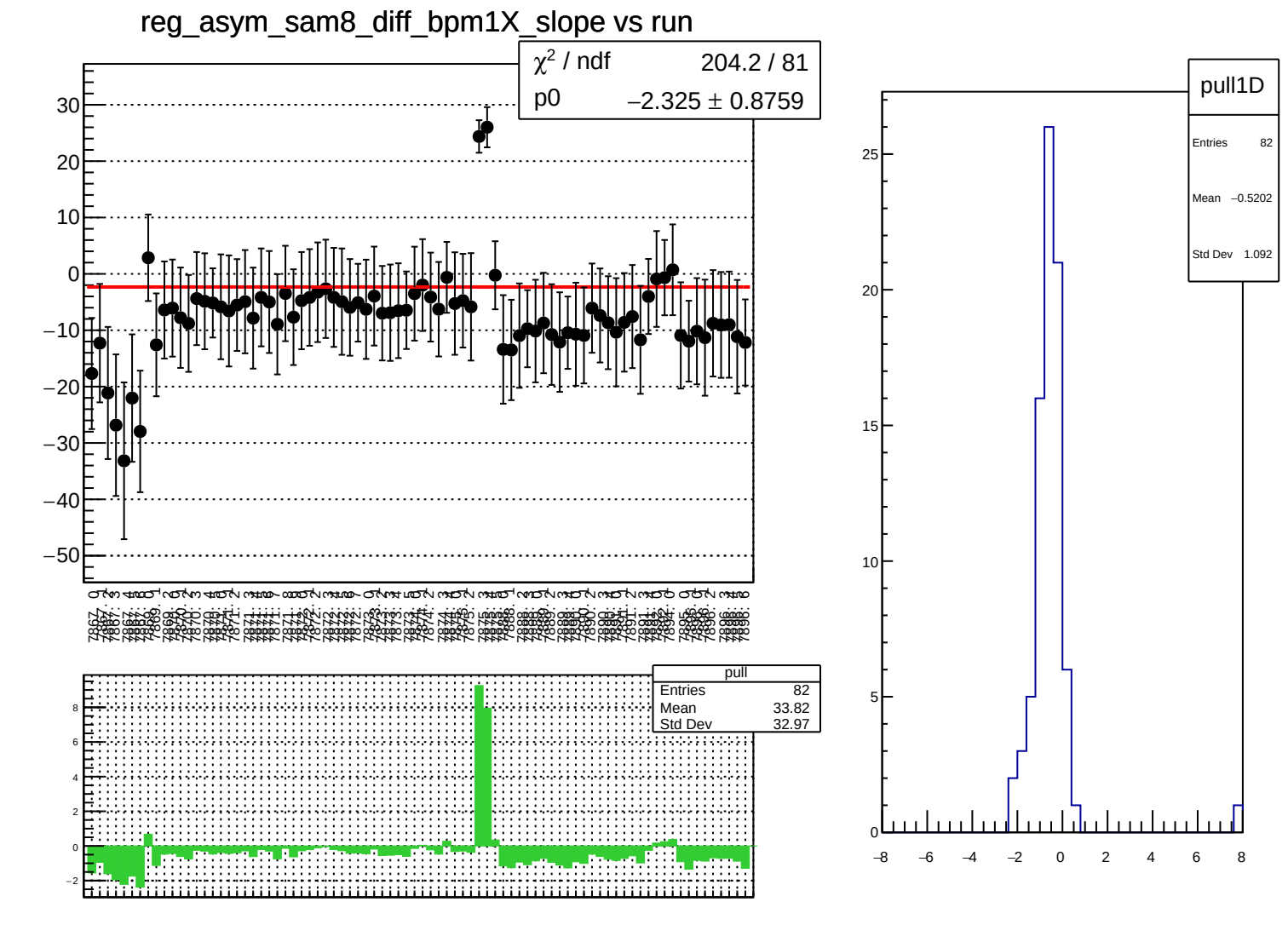

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 148.8 / 81
p0 −2.709 ± 1.567
pull
Entries 82
Mean 33.01
Std Dev 33.73
pull1D
Entries 82
Mean −0.351
Std Dev 1.301

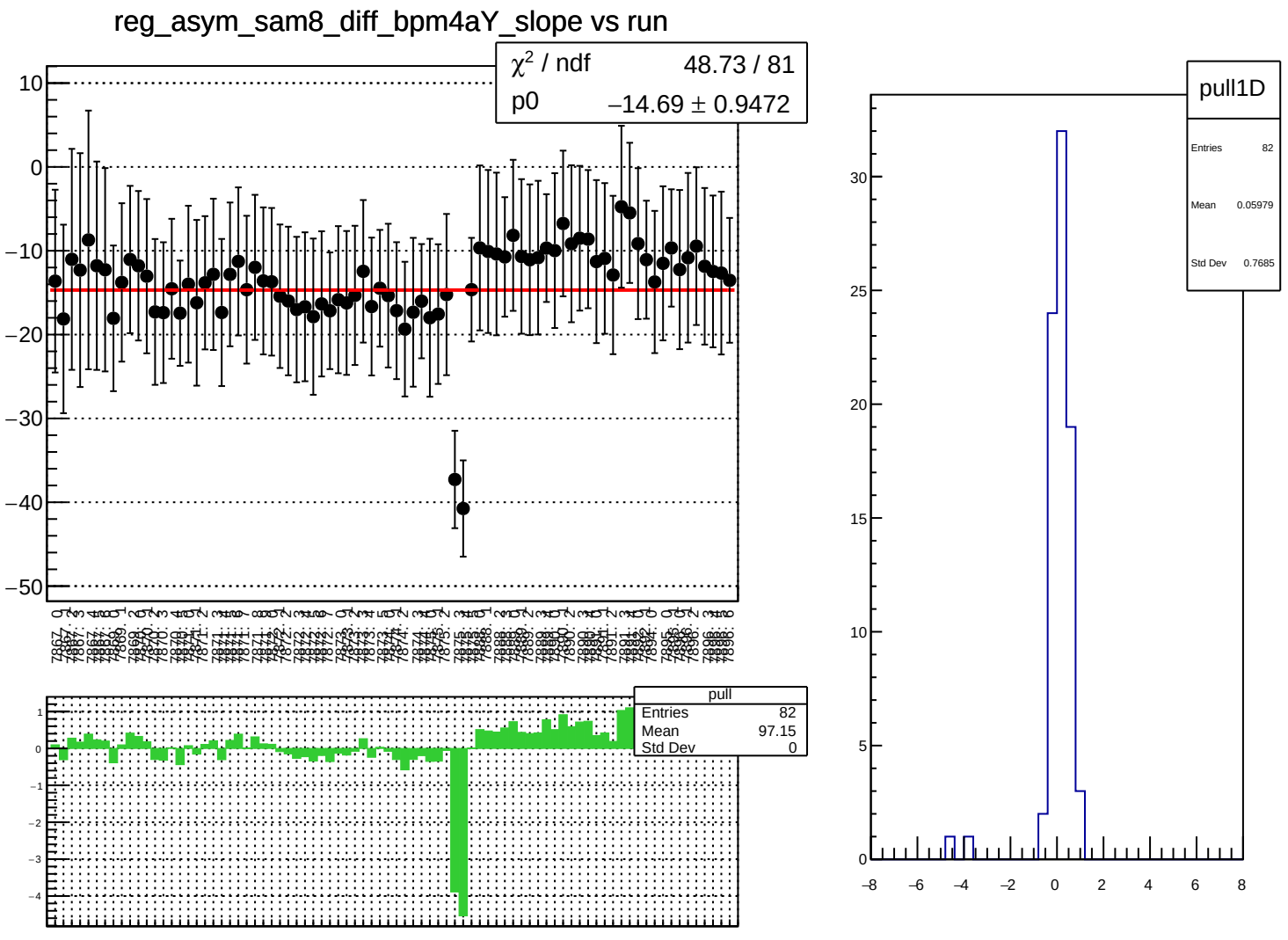

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 7.114 / 81
p0 19.45 ± 1.698
pull
Entries 82
Mean −222.4
Std Dev 0
pull1D
Entries 82
Mean −0.003359
Std Dev 0.2945

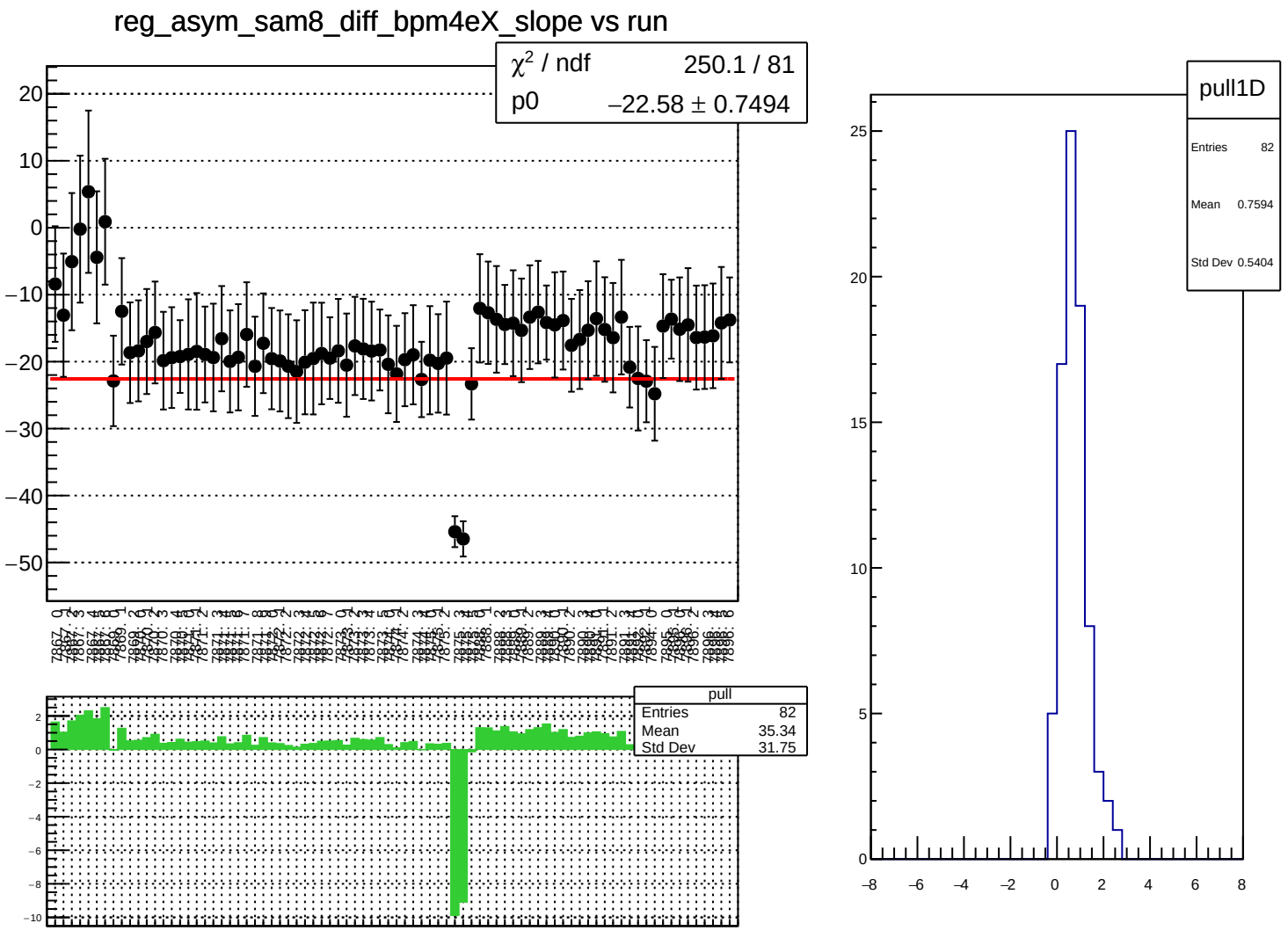

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 187.9 / 81
p0 −41.2 ± 1.338
pull
Entries 82
Mean 35.98
Std Dev 32.84
pull1D
Entries 82
Mean 0.5558
Std Dev 1.1

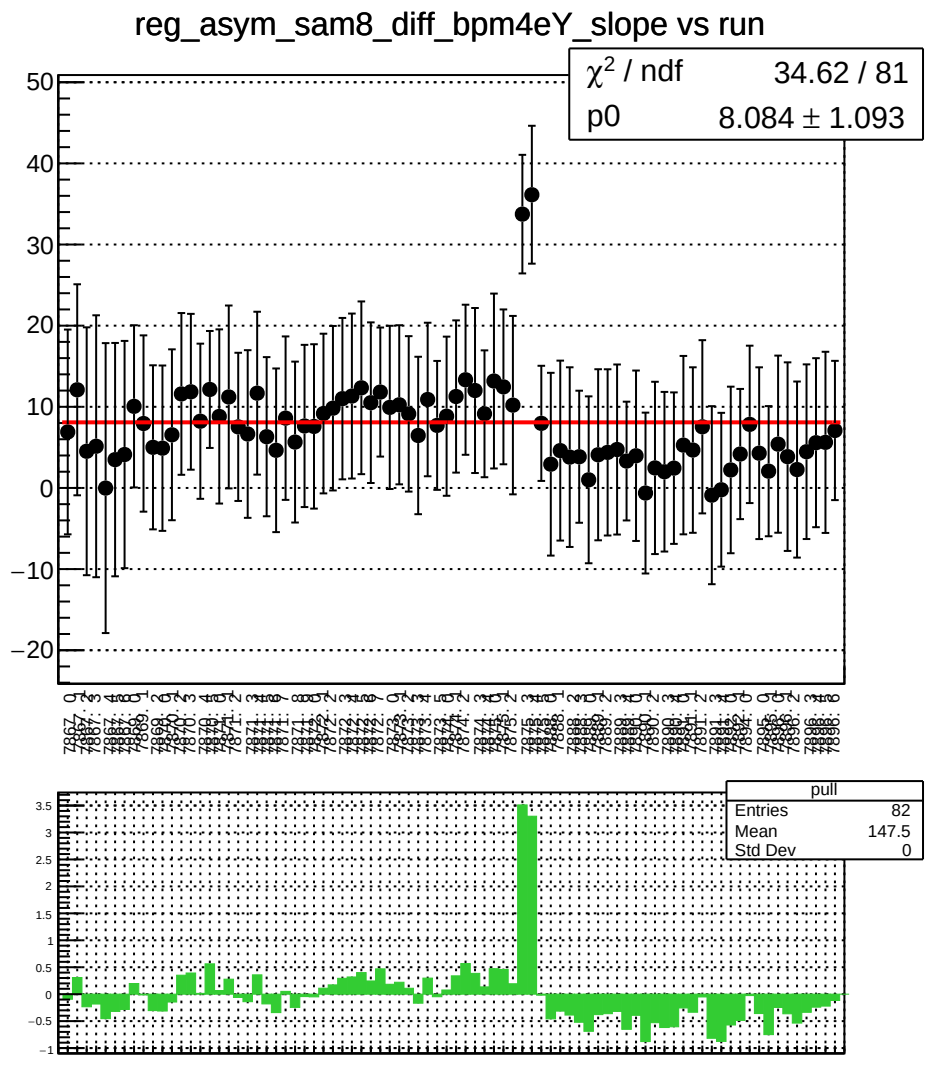

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 6.429 / 81
p0 −24.59 ± 1.96
pull
Entries 82
Mean −9.906
Std Dev 58.57
pull1D
Entries 82
Mean 0.01046
Std Dev 0.2798

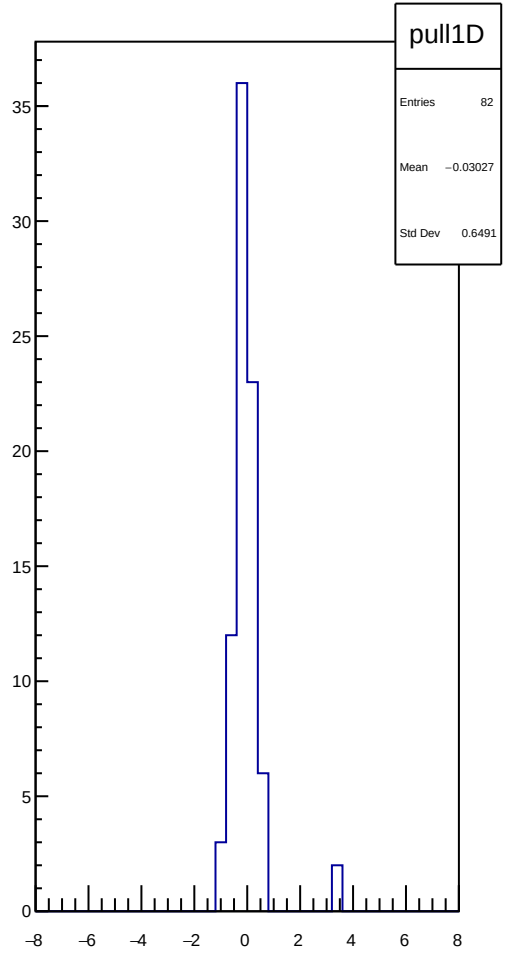

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 19.64 / 81
p0 −0.7541± 0.06123
pull
Entries 82
Mean −2.89
Std Dev 0
pull1D
Entries 82
Mean −0.02961
Std Dev 0.4885

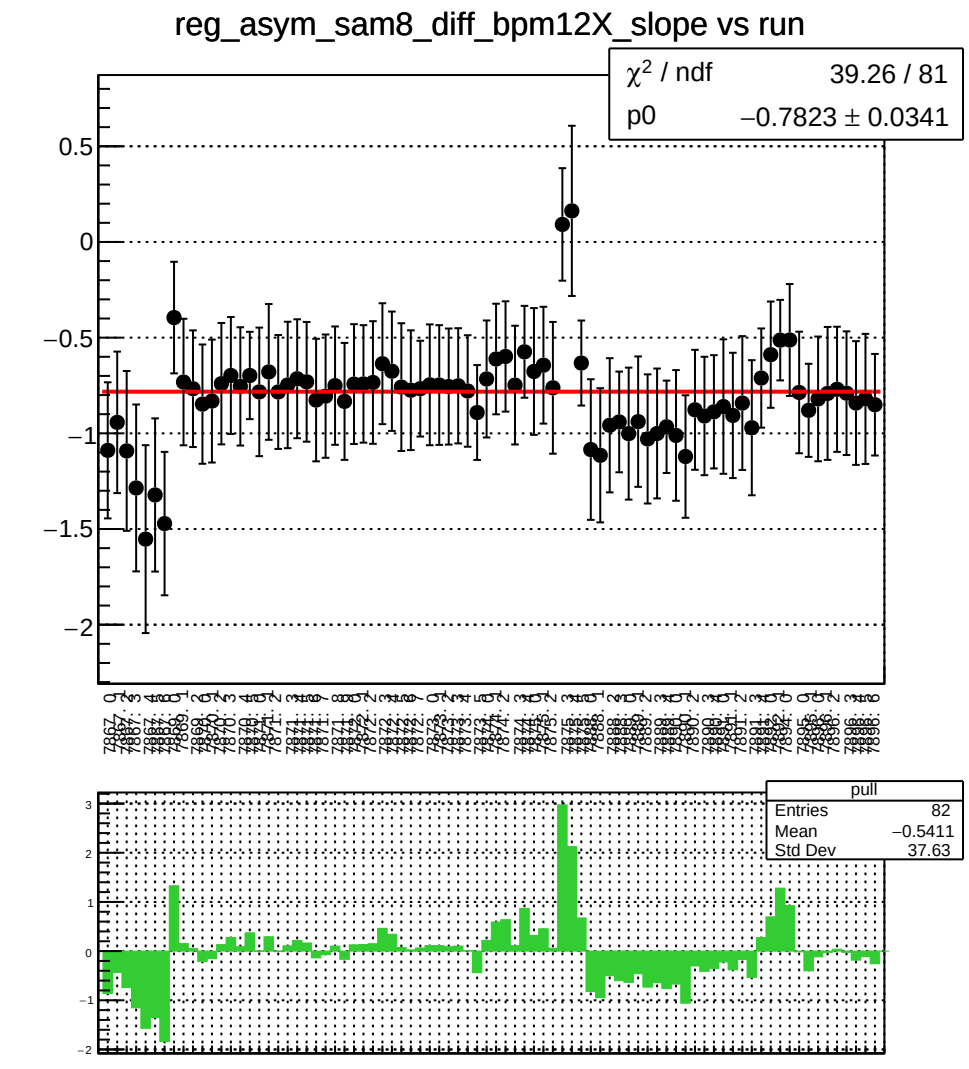

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 204.2 / 81
p0 −2.325 ± 0.8759
pull
Entries 82
Mean 33.82
Std Dev 32.97
pull1D
Entries 82
Mean −0.5202
Std Dev 1.092

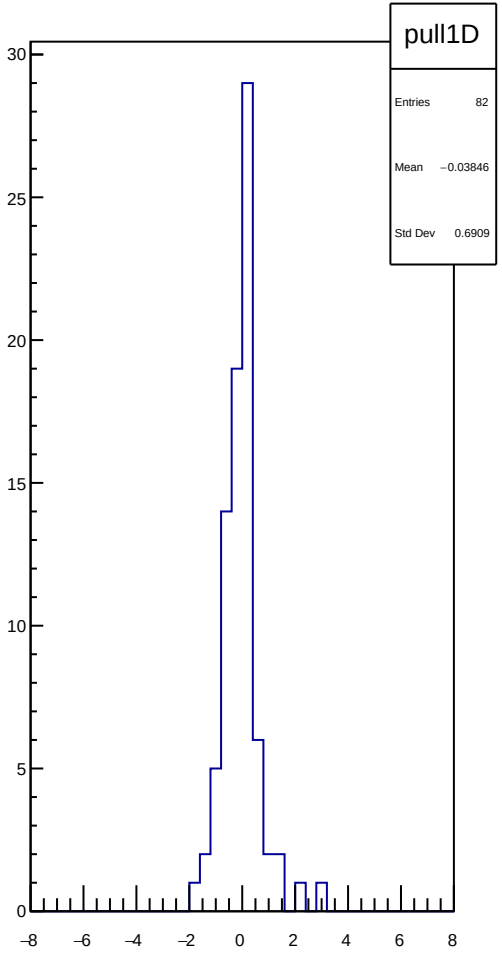

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 48.73 / 81
p0 −14.69 ± 0.9472
pull
Entries 82
Mean 97.15
Std Dev 0
pull1D
Entries 82
Mean 0.05979
Std Dev 0.7685

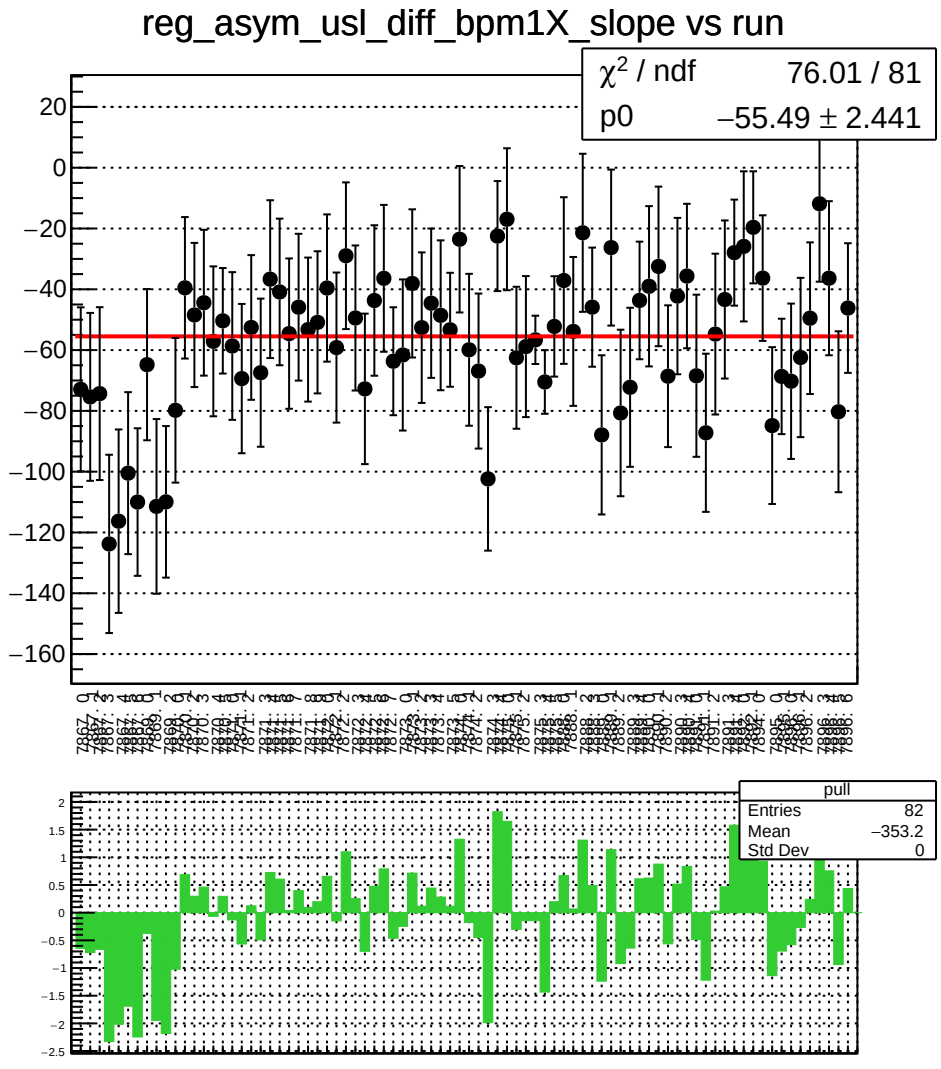

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 250.1 / 81
p0 −22.58 ± 0.7494
pull
Entries 82
Mean 35.34
Std Dev 31.75
pull1D
Entries 82
Mean 0.7594
Std Dev 0.5404

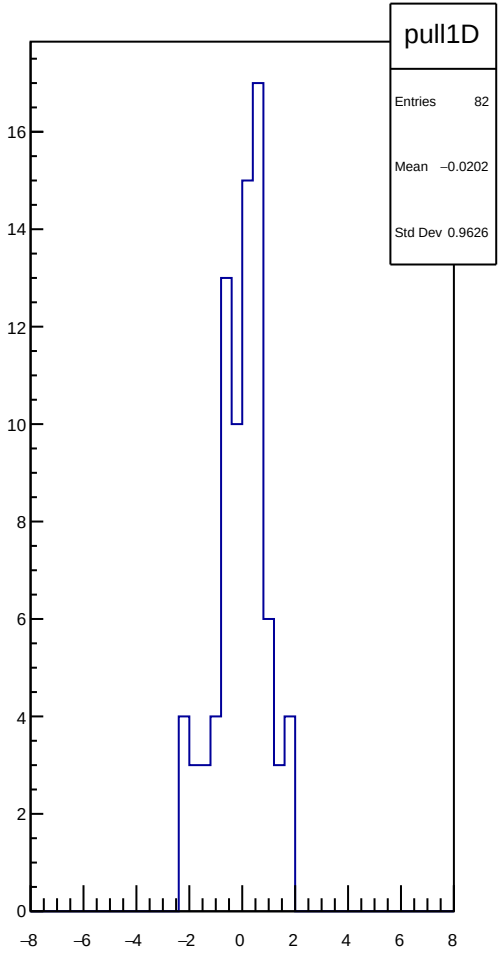

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 34.62 / 81
p0 8.084 ± 1.093
pull
Entries 82
Mean 147.5
Std Dev 0

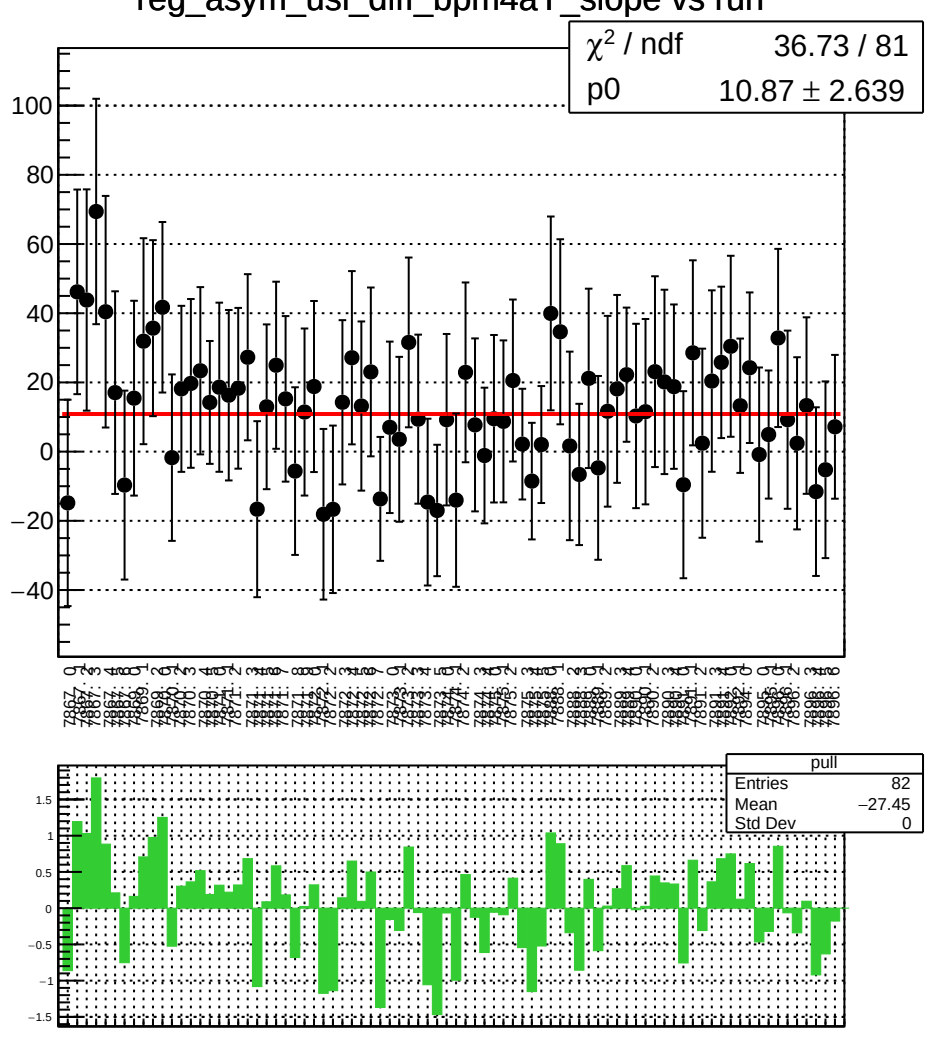

pull1D
Entries 82
Mean −0.03027
Std Dev 0.6491

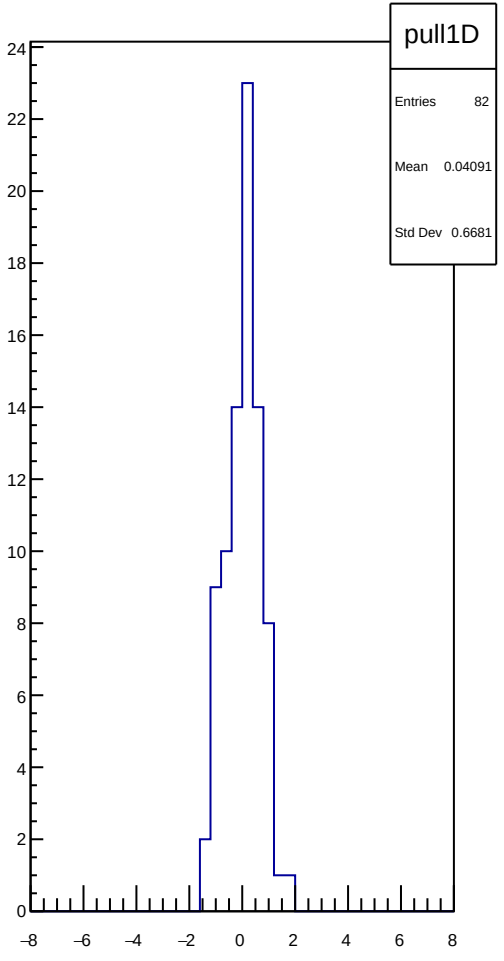

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 39.26 / 81
p0 −0.7823 ± 0.0341
pull
Entries 82
Mean −0.5411
Std Dev 37.63

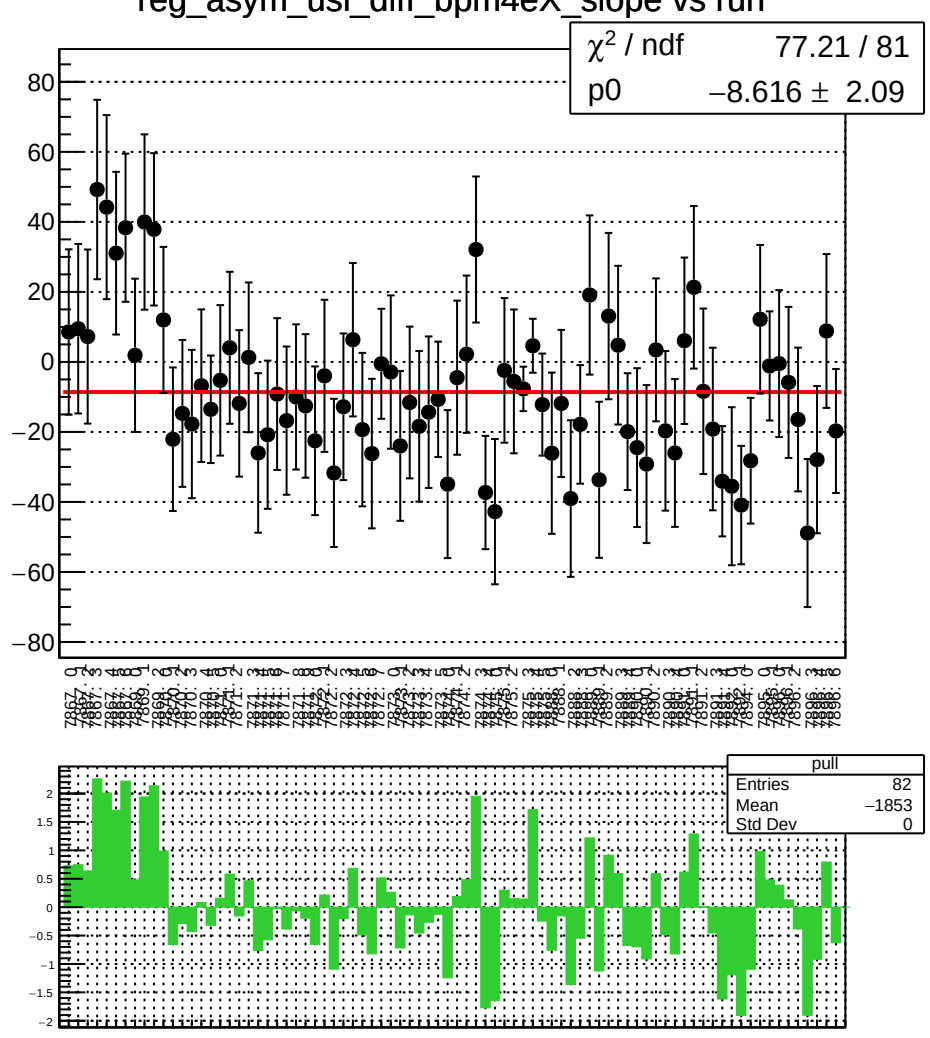

pull1D
Entries 82
Mean −0.03846
Std Dev 0.6909

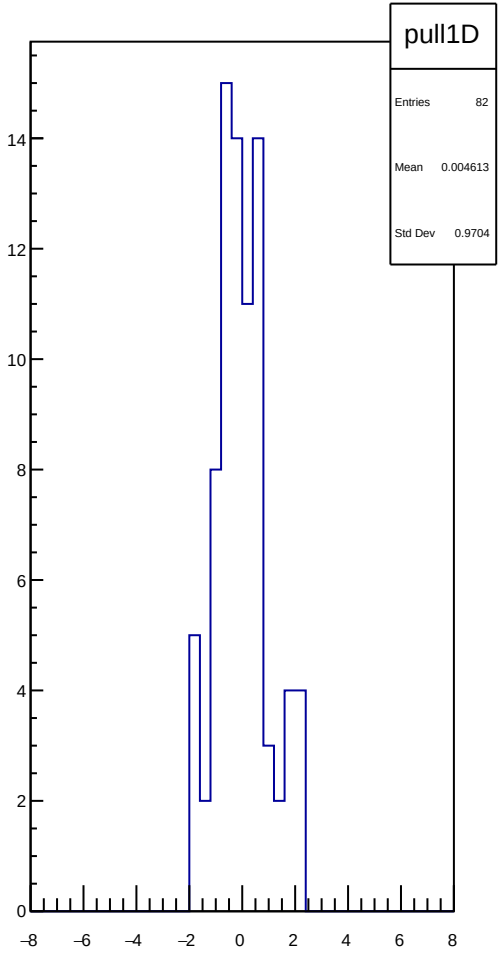

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 76.01 / 81
p0 −55.49 ± 2.441
pull
Entries 82
Mean −353.2
Std Dev 0

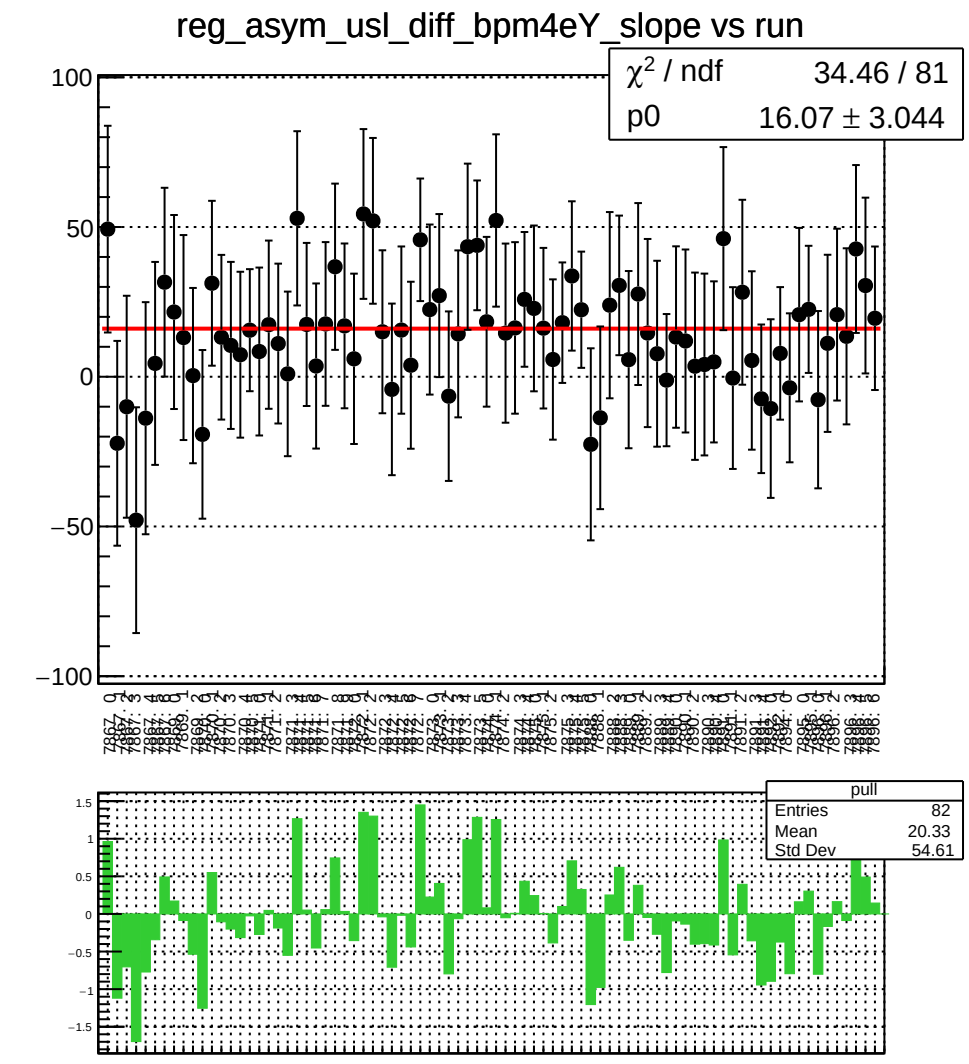

pull1D
Entries 82
Mean −0.0202
Std Dev 0.9626

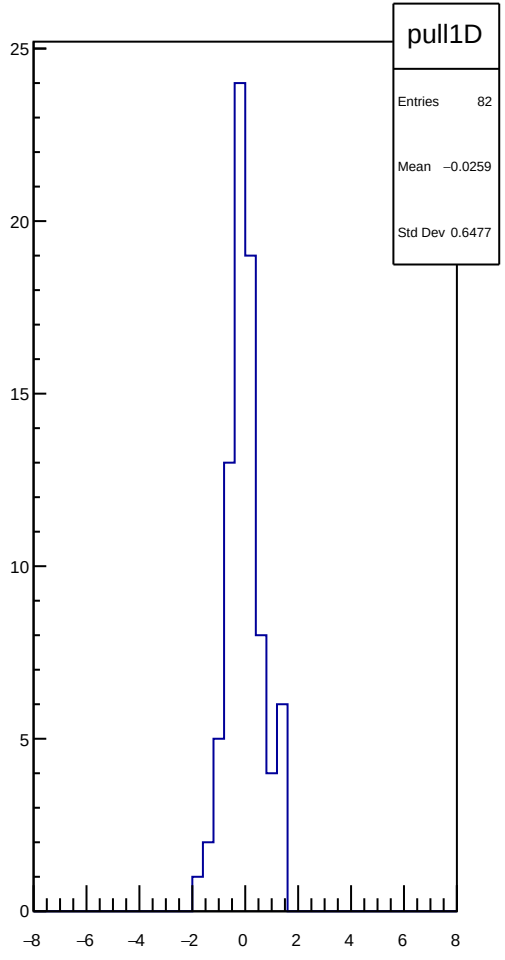

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 36.73 / 81
p0 10.87 ± 2.639
pull
Entries 82
Mean −27.45
Std Dev 0

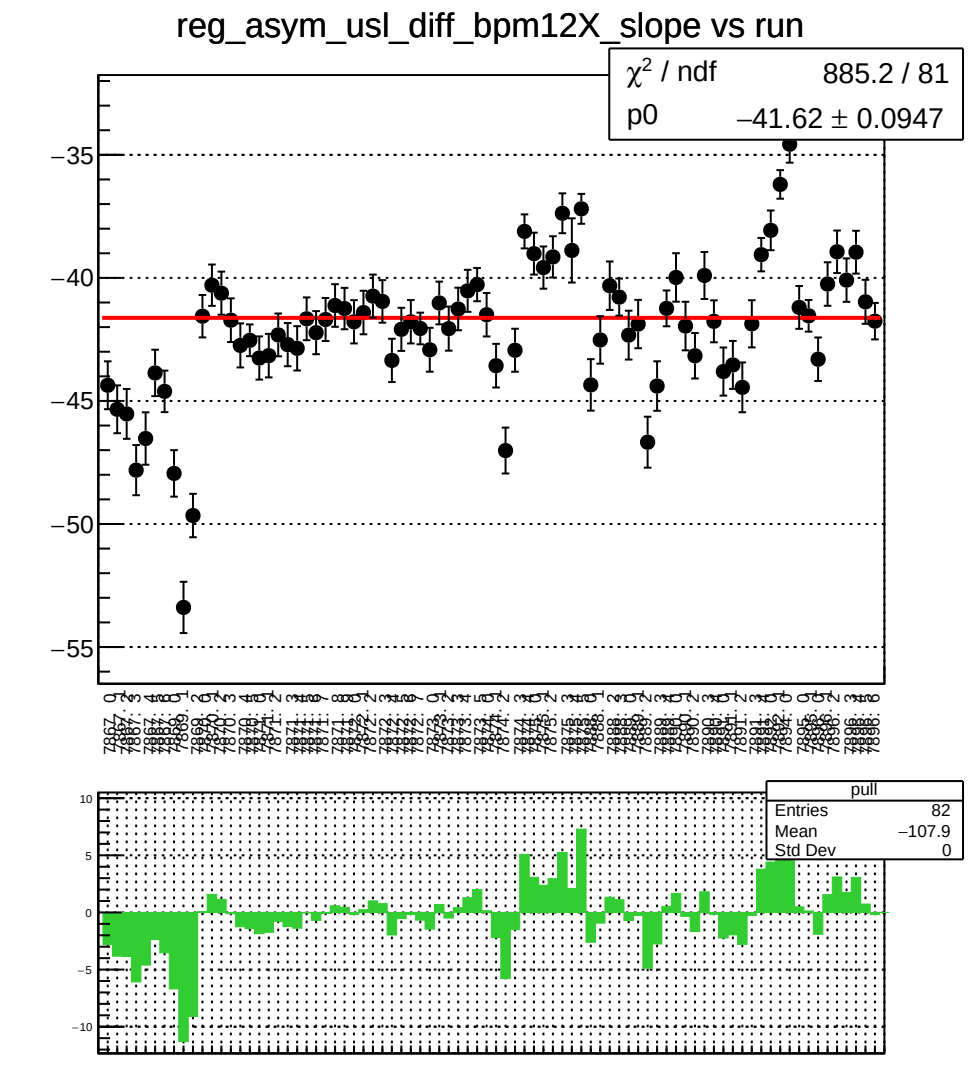

pull1D
Entries 82
Mean 0.04091
Std Dev 0.6681

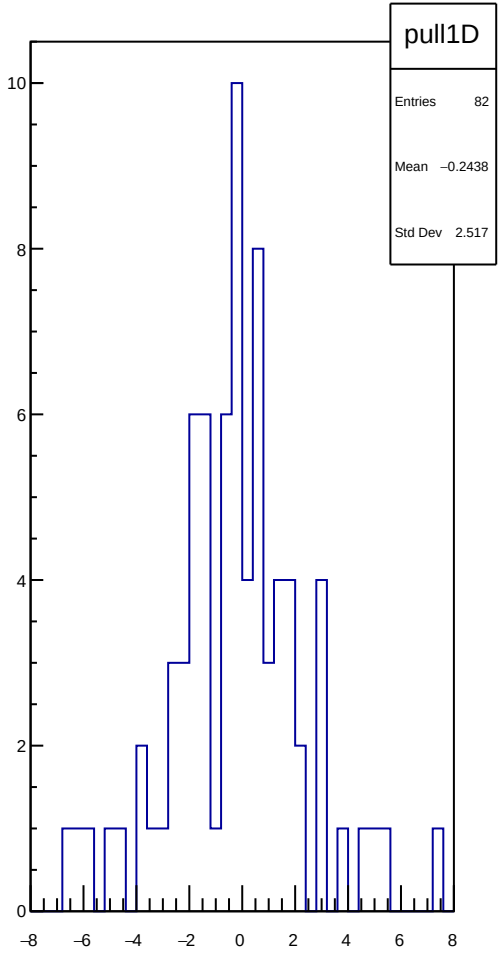

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 77.21 / 81
p0 −8.616 ± 2.09
pull
Entries 82
Mean −1853
Std Dev 0

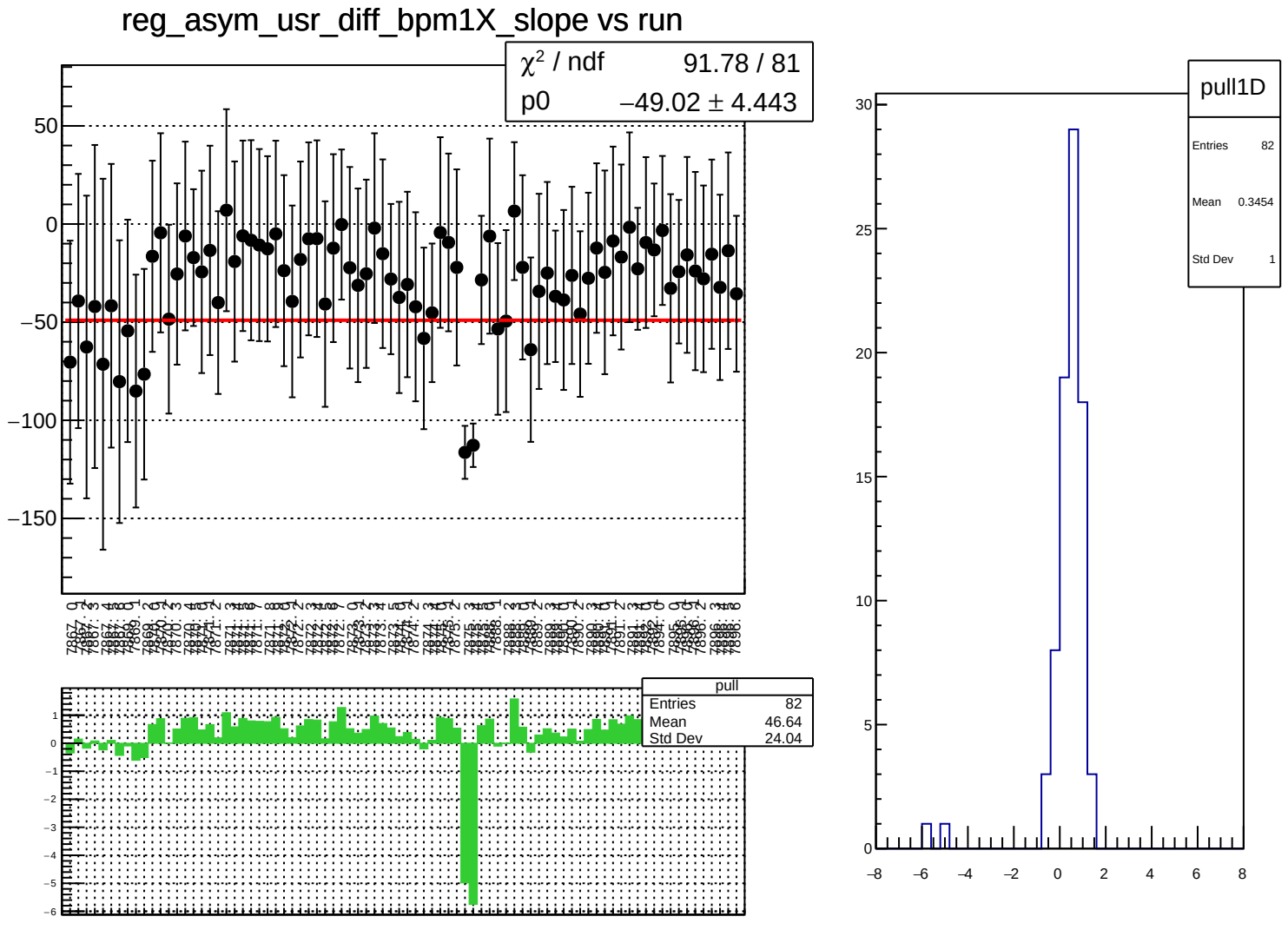

pull1D
Entries 82
Mean 0.004613
Std Dev 0.9704

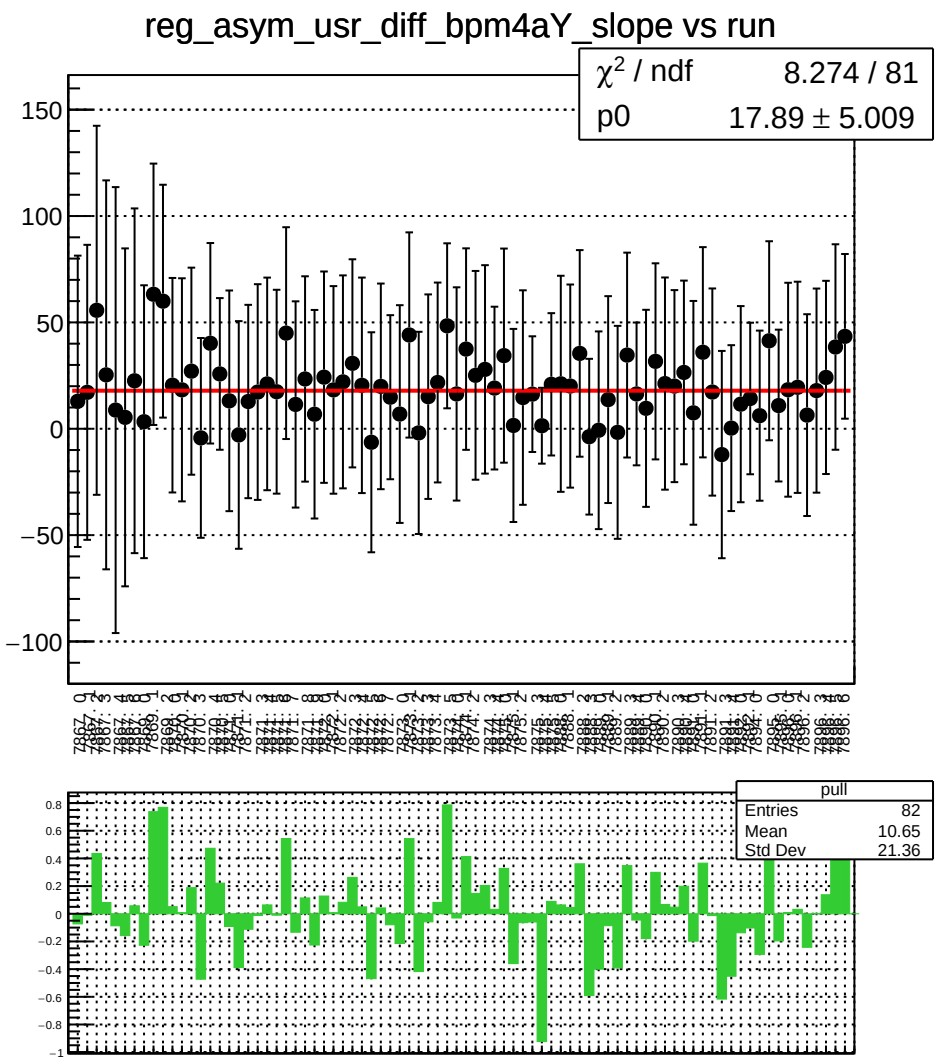

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 34.46 / 81
p0 16.07 ± 3.044
pull
Entries 82
Mean 20.33
Std Dev 54.61

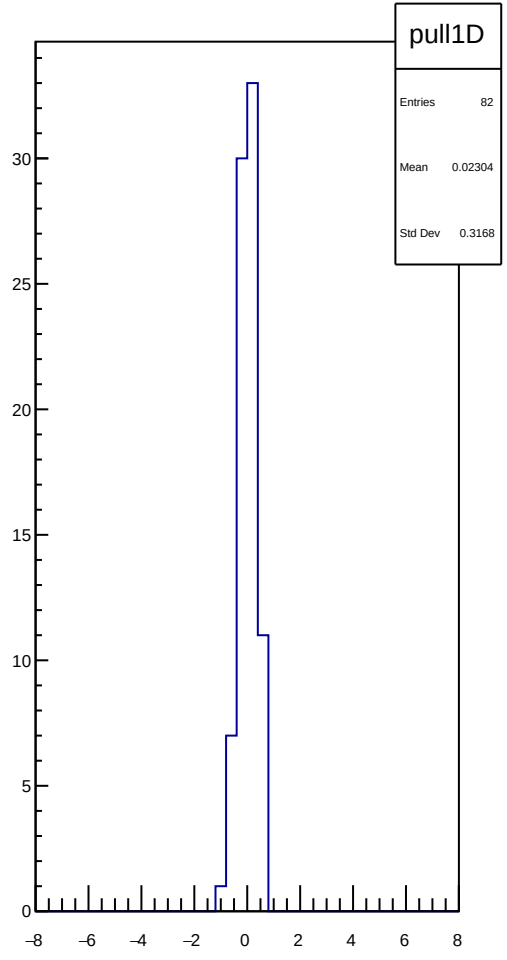

pull1D
Entries 82
Mean −0.0259
Std Dev 0.6477

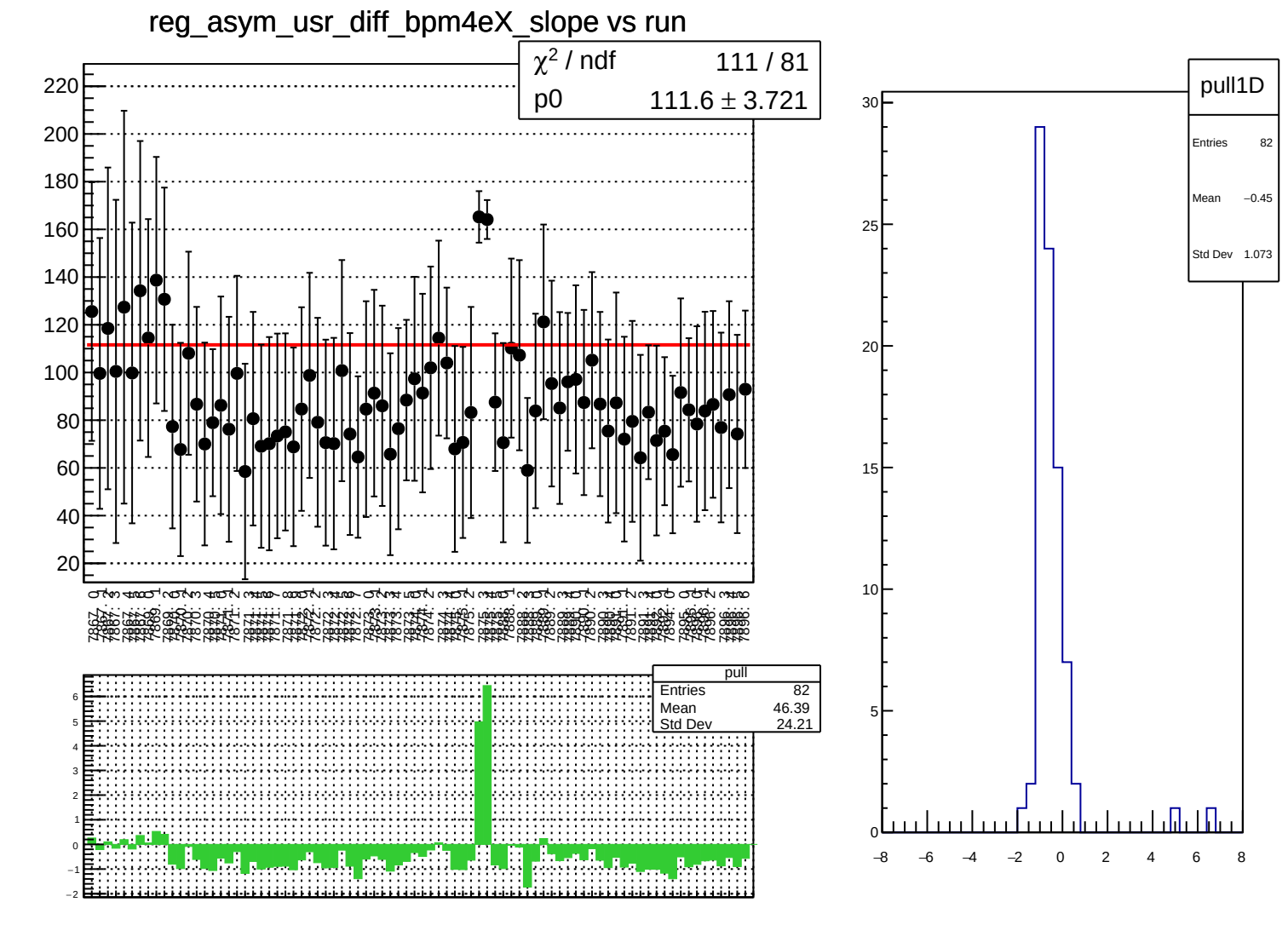

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 885.2 / 81
p0 −41.62 ± 0.0947
pull
Entries 82
Mean −107.9
Std Dev 0

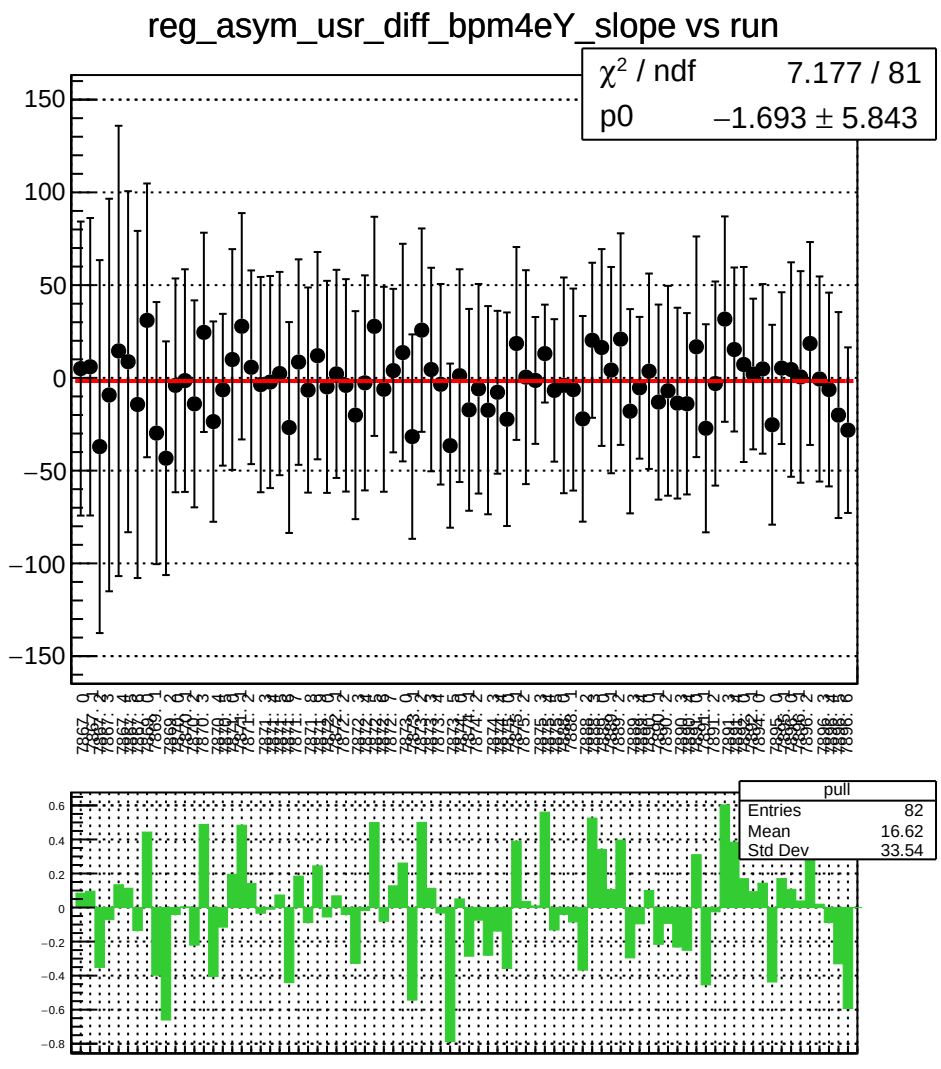

pull1D
Entries 82
Mean −0.2438
Std Dev 2.517

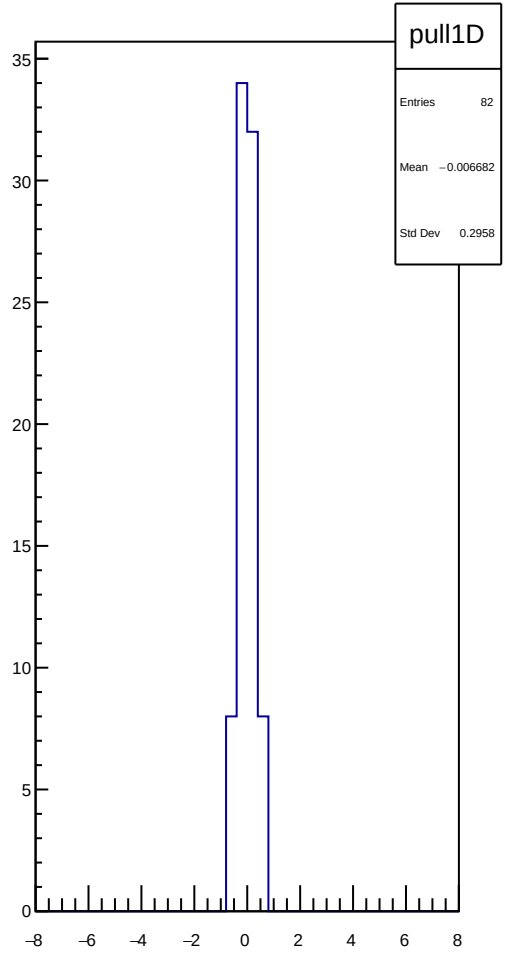

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 91.78 / 81
p0 −49.02 ± 4.443
50
0
−50
−100
−150
pull
Entries 82
Mean 46.64
Std Dev 24.04
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 82
Mean 0.3454
Std Dev 1
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

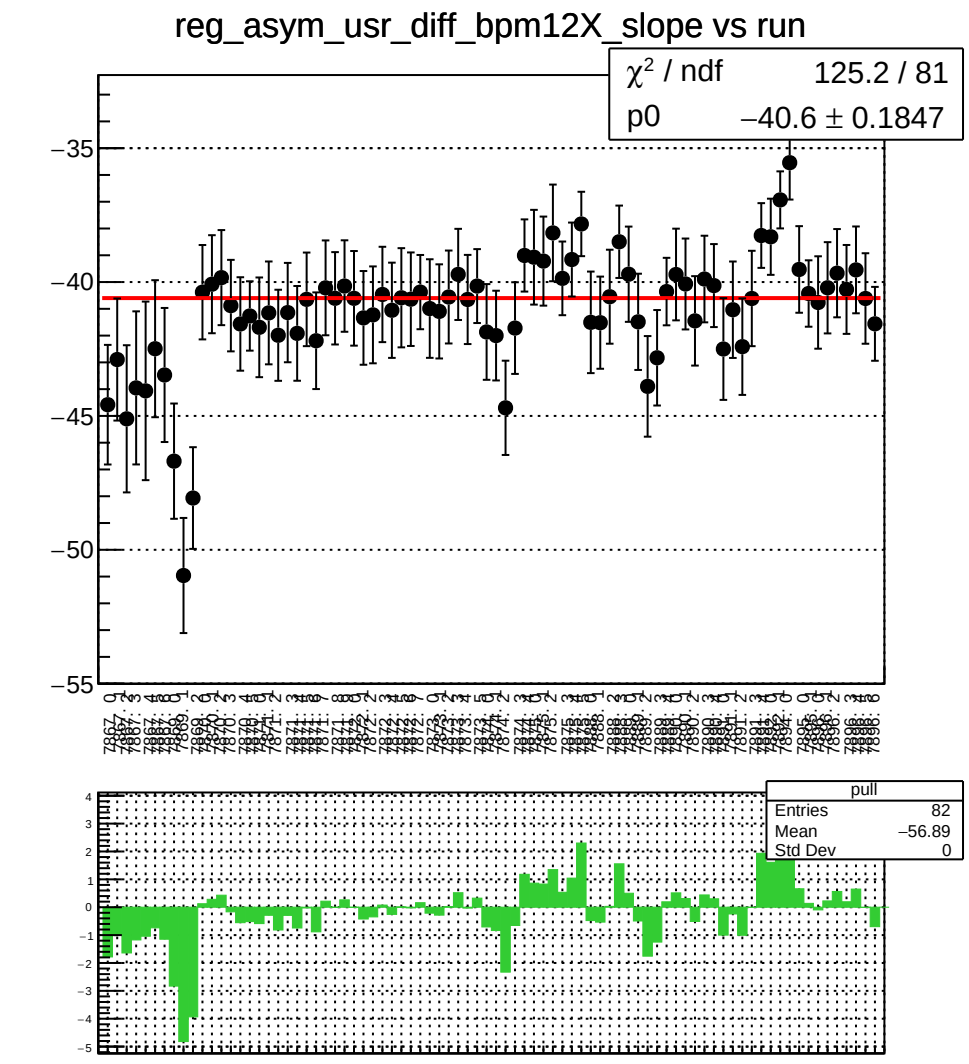

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 8.274 / 81
p0 17.89 ± 5.009
150
100
50
0
−50
−100
pull
Entries 82
Mean 10.65
Std Dev 21.36
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

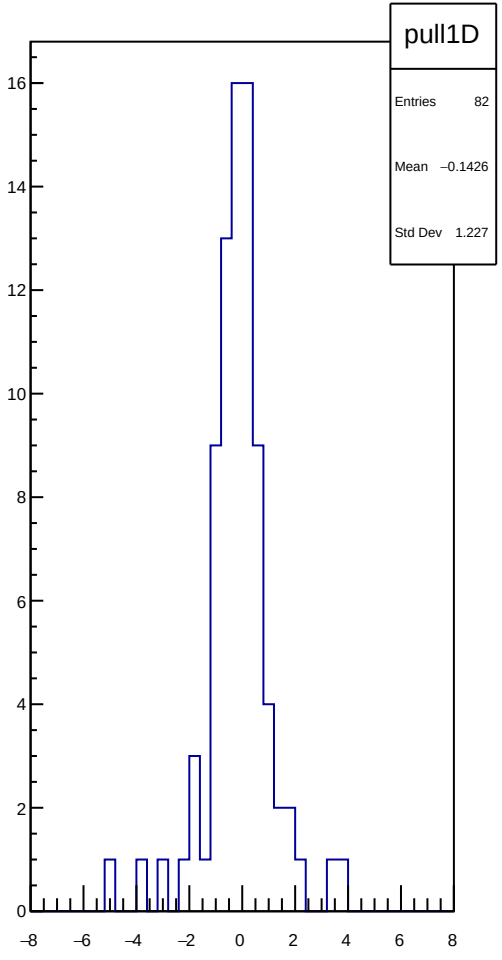

pull1D
Entries 82
Mean 0.02304
Std Dev 0.3168
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

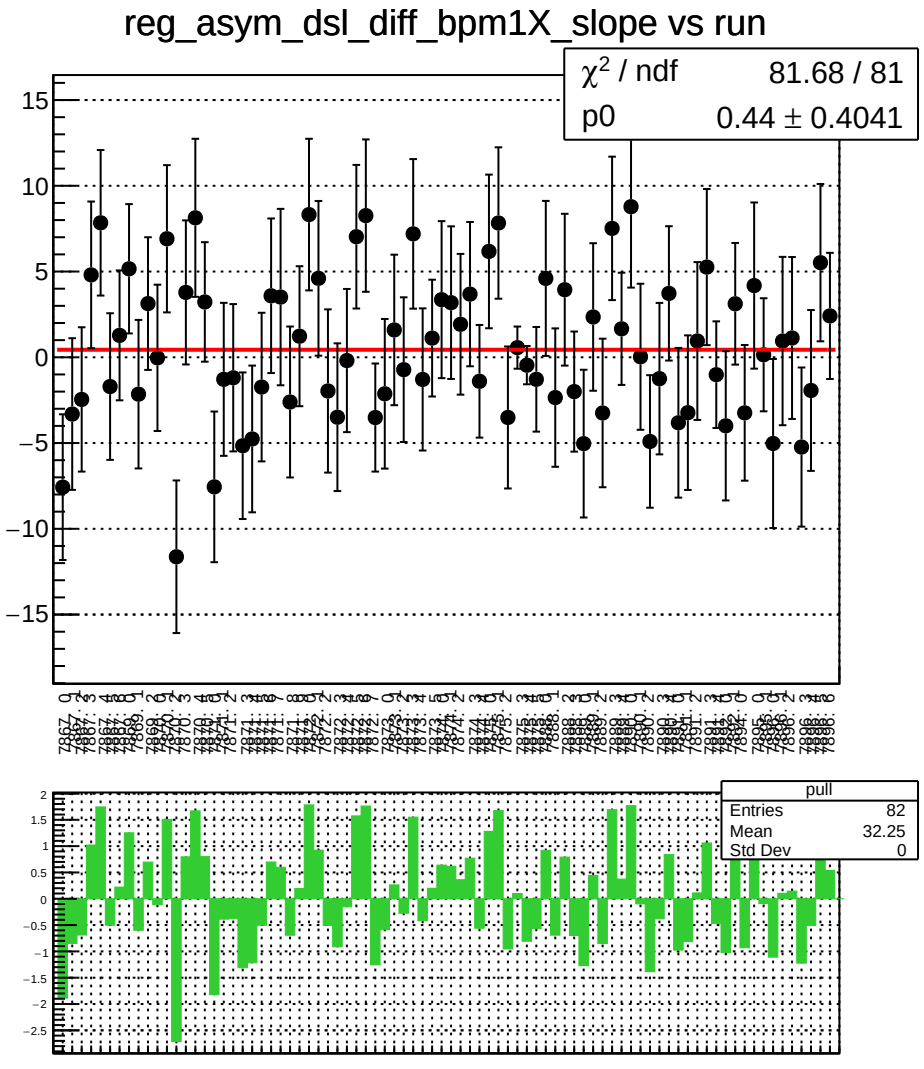

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 111 / 81
p0 111.6 ± 3.721
pull
Entries 82
Mean 46.39
Std Dev 24.21
pull1D
Entries 82
Mean −0.45
Std Dev 1.073

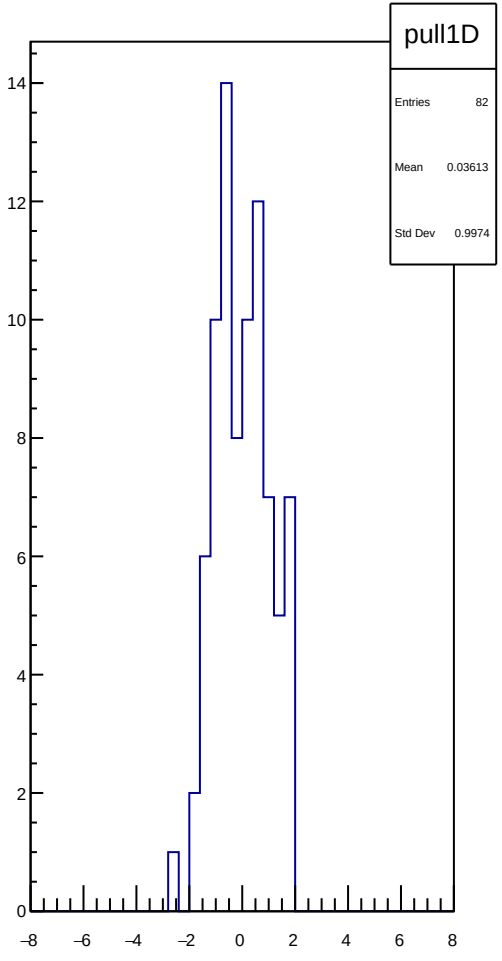

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 7.177 / 81
p0 −1.693 ± 5.843
pull
Entries 82
Mean 16.62
Std Dev 33.54

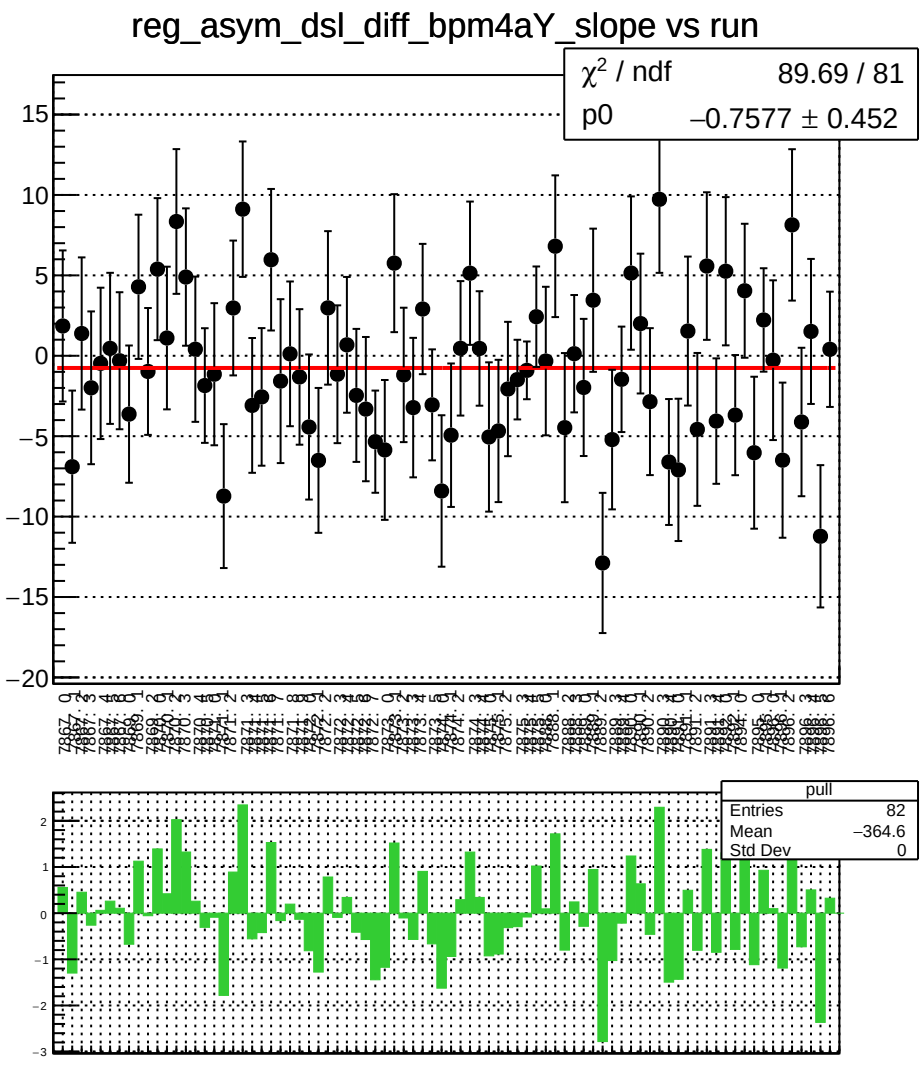

pull1D
Entries 82
Mean −0.006682
Std Dev 0.2958

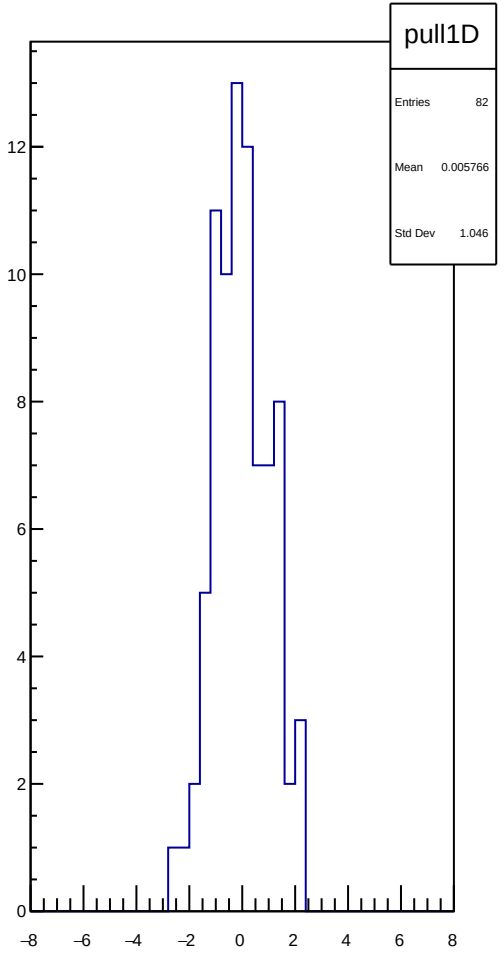

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 125.2 / 81
p0 −40.6 ± 0.1847
pull
Entries 82
Mean −56.89
Std Dev 0

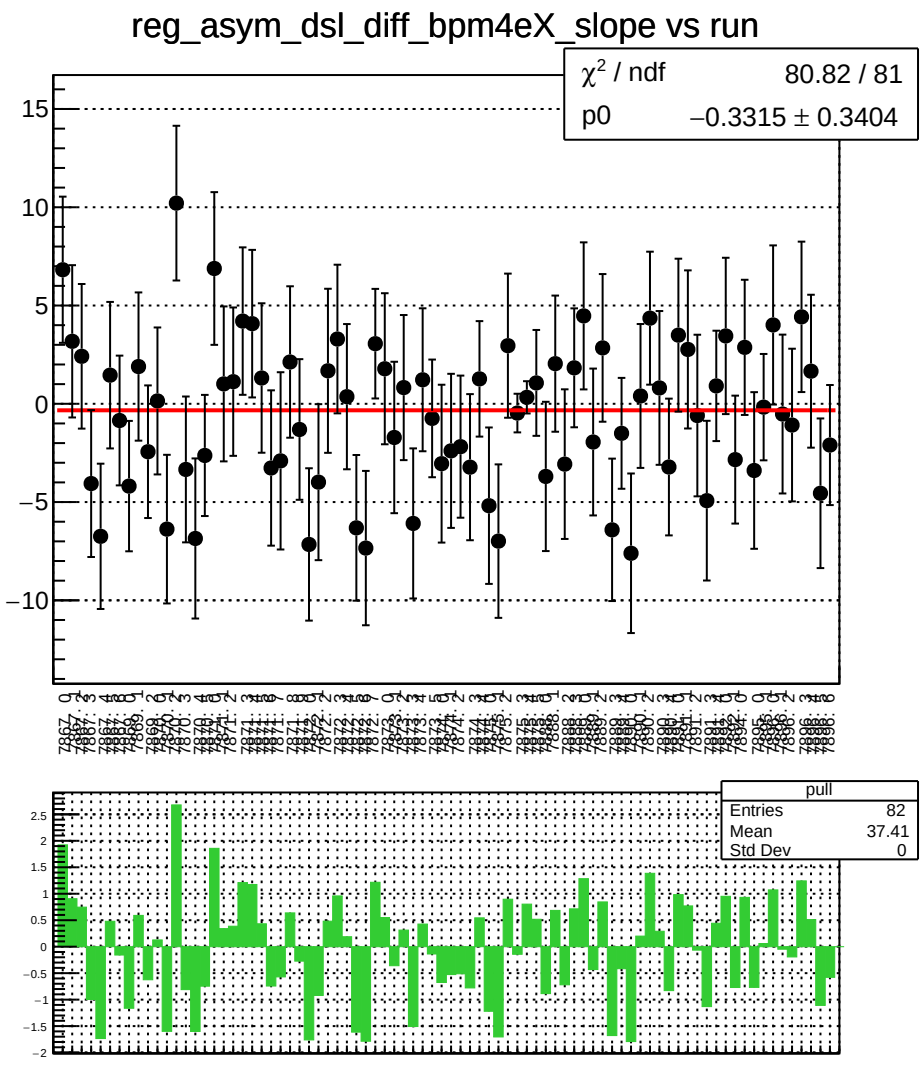

pull1D
Entries 82
Mean −0.1426
Std Dev 1.227

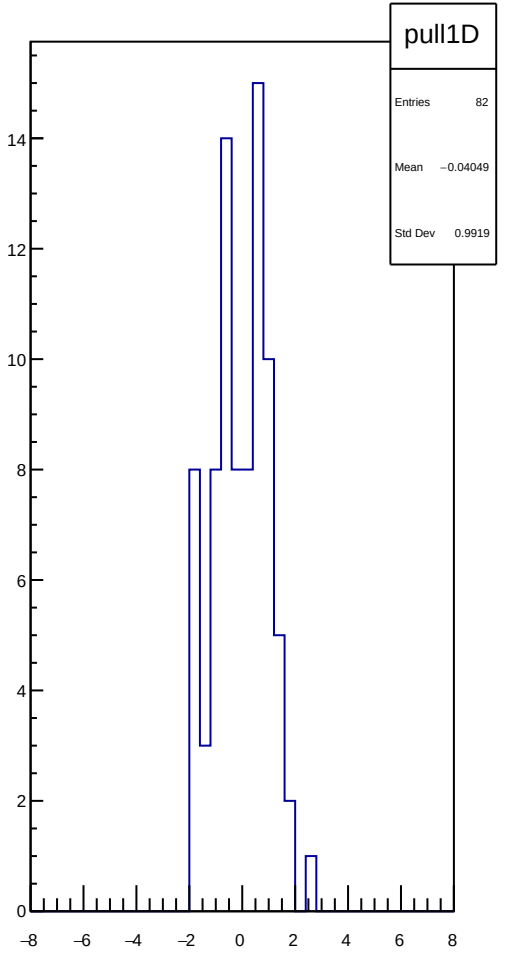

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 81.68 / 81
p0 0.44 ± 0.4041
pull
Entries 82
Mean 32.25
Std Dev 0

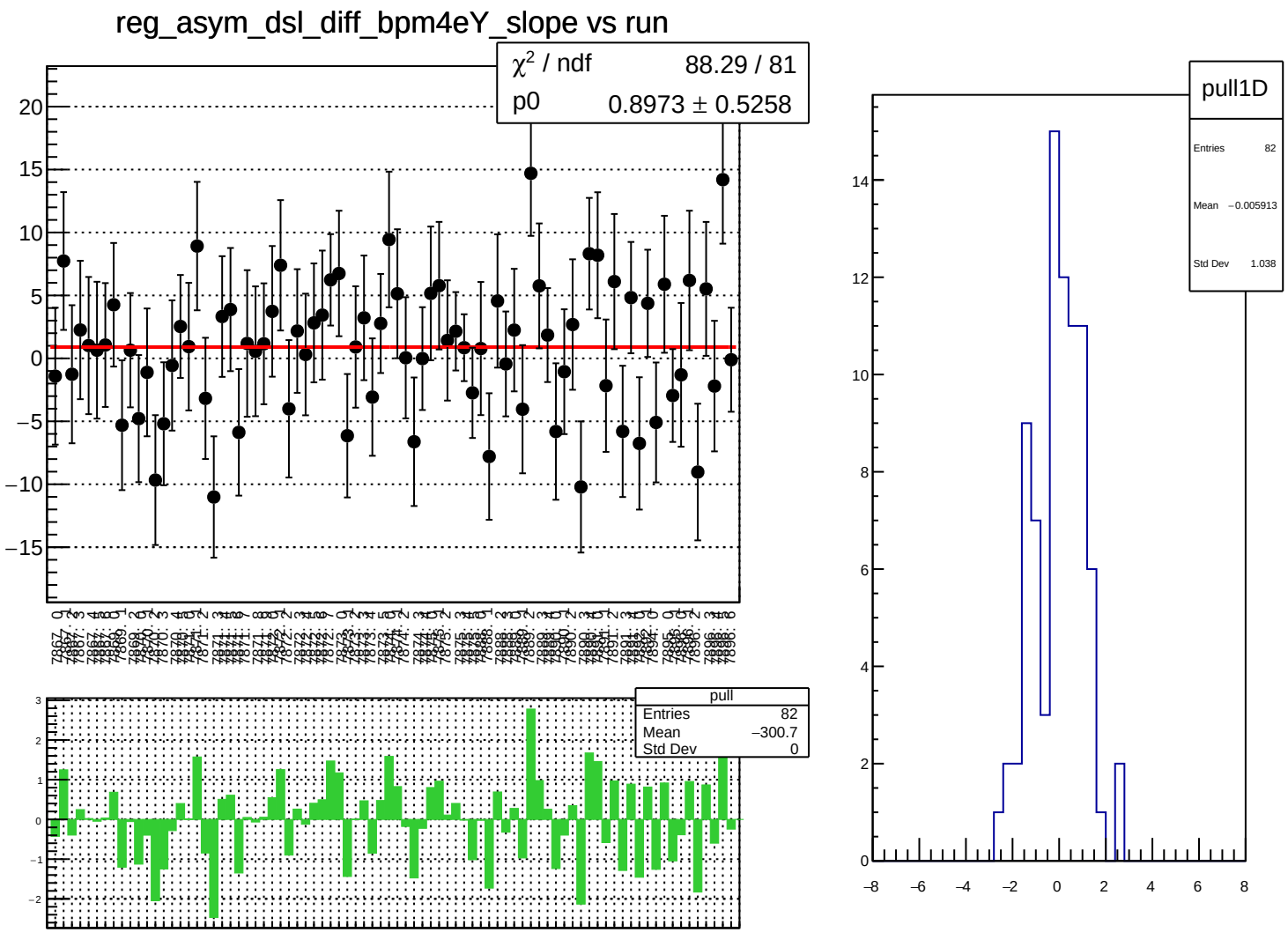

pull1D
Entries 82
Mean 0.03613
Std Dev 0.9974

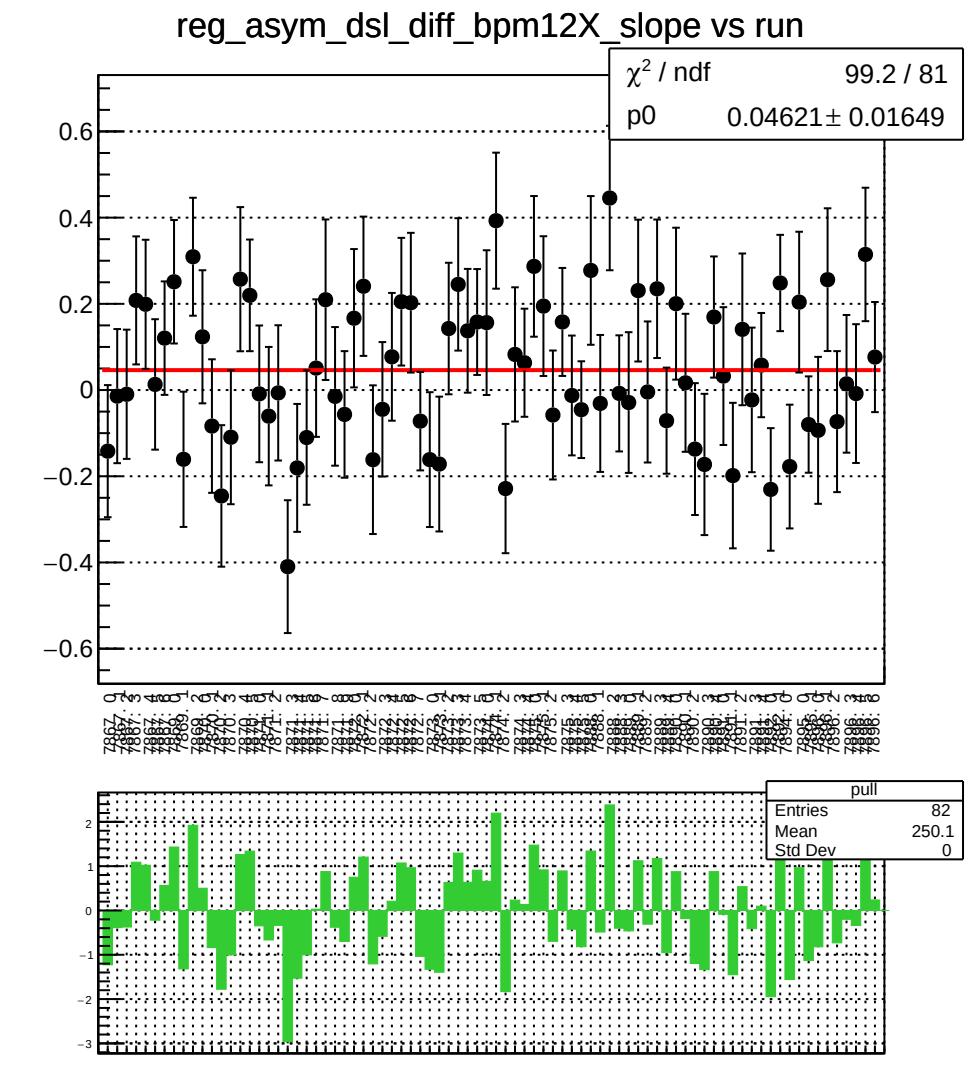

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 89.69 / 81
p0 −0.7577 ± 0.452
pull
Entries 82
Mean −364.6
Std Dev 0

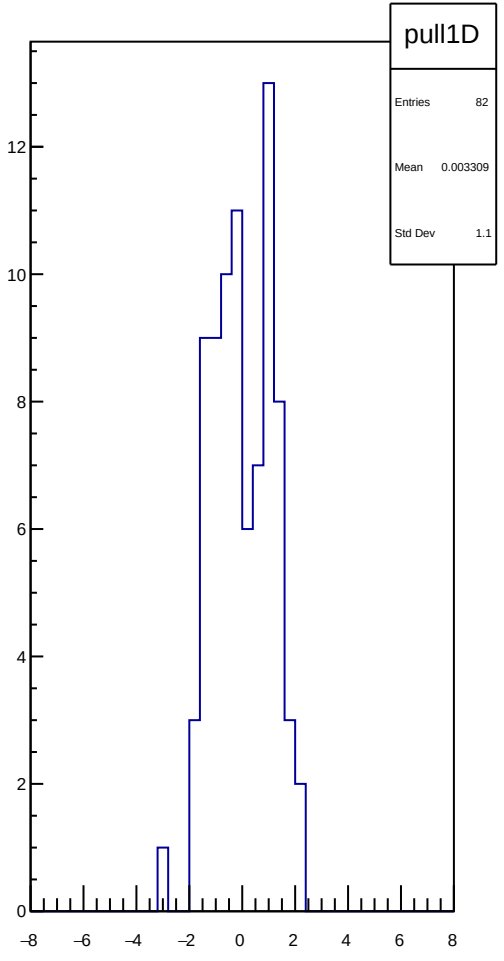

pull1D
Entries 82
Mean 0.005766
Std Dev 1.046

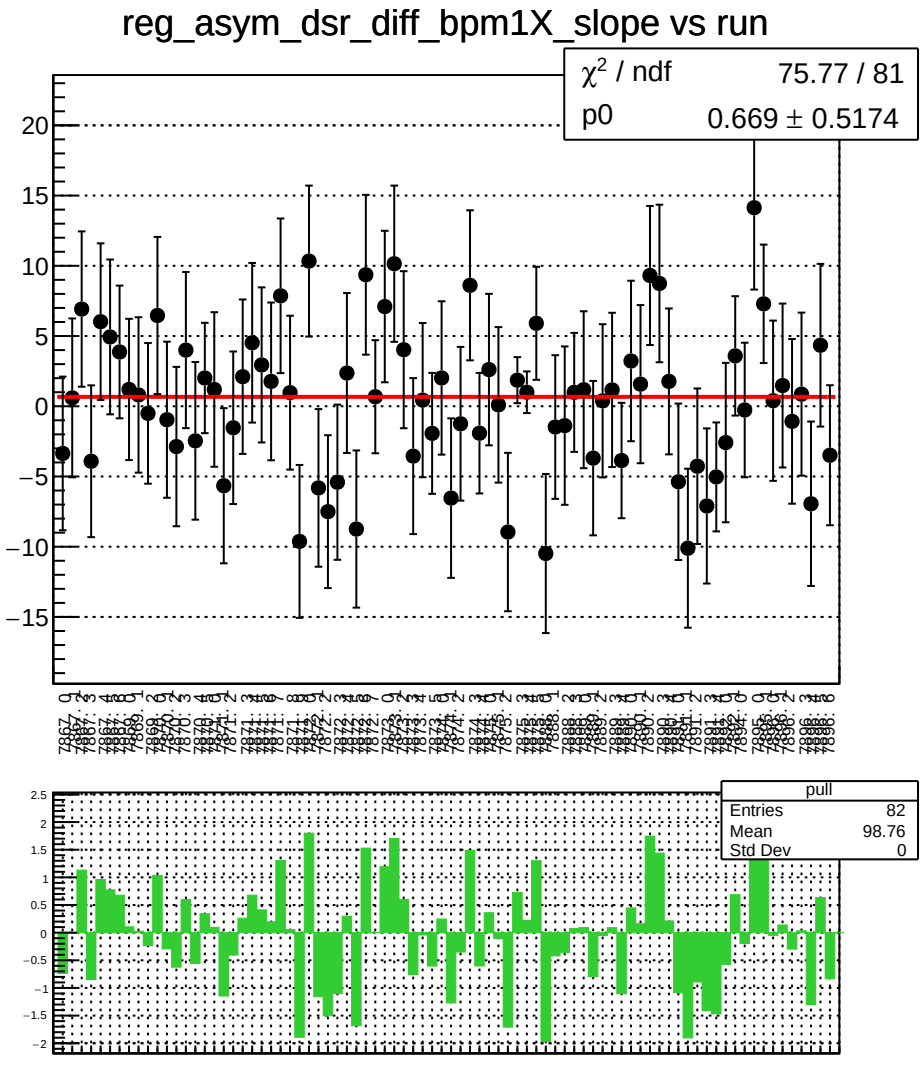

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 80.82 / 81
p0 −0.3315 ± 0.3404
pull
Entries 82
Mean 37.41
Std Dev 0

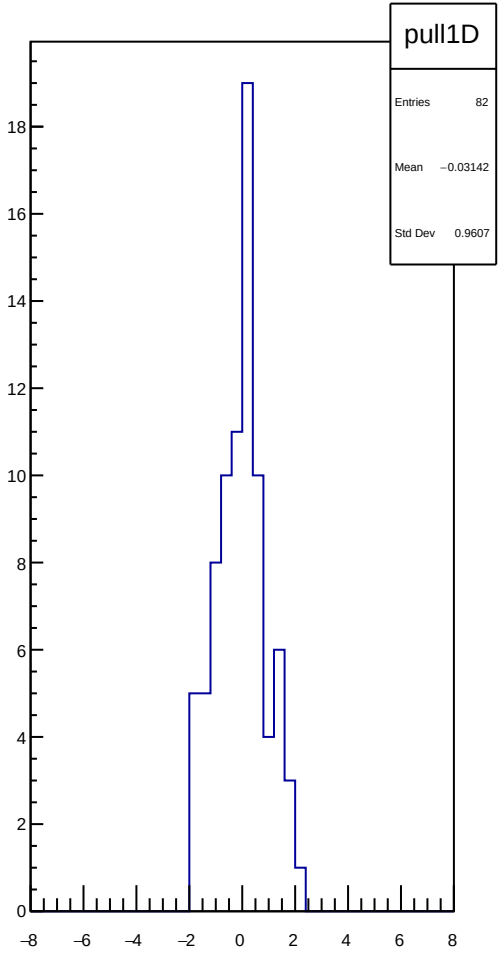

pull1D
Entries 82
Mean −0.04049
Std Dev 0.9919

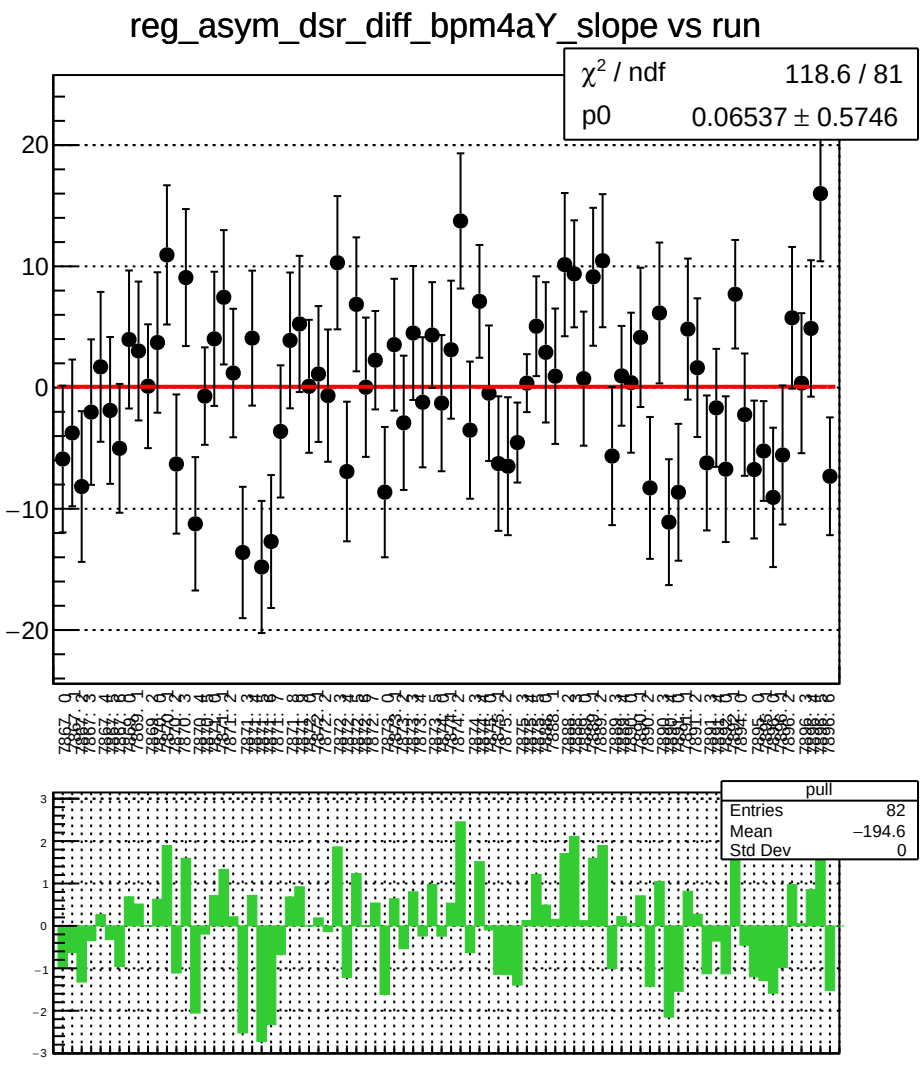

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 88.29 / 81
p0 0.8973 ± 0.5258
pull
Entries 82
Mean −300.7
Std Dev 0
pull1D
Entries 82
Mean −0.005913
Std Dev 1.038

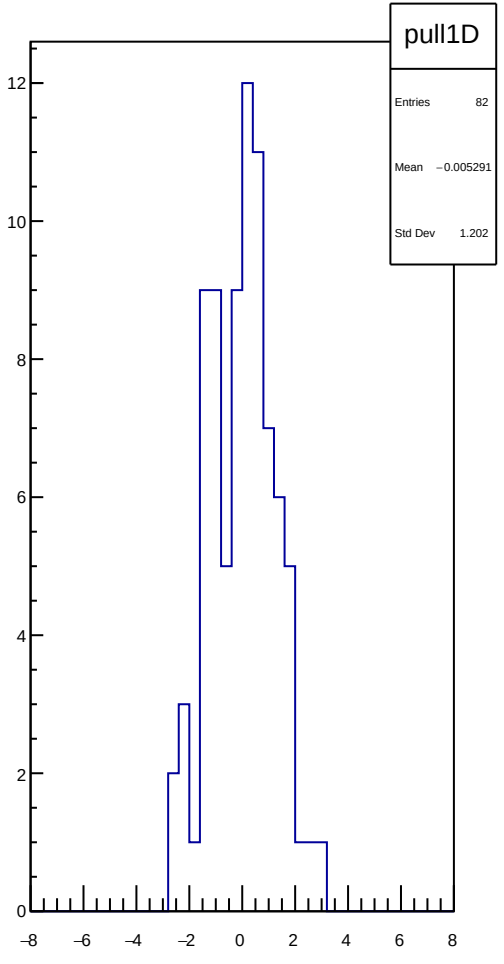

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 99.2 / 81
p0 0.04621 ± 0.01649
pull
Entries 82
Mean 250.1
Std Dev 0

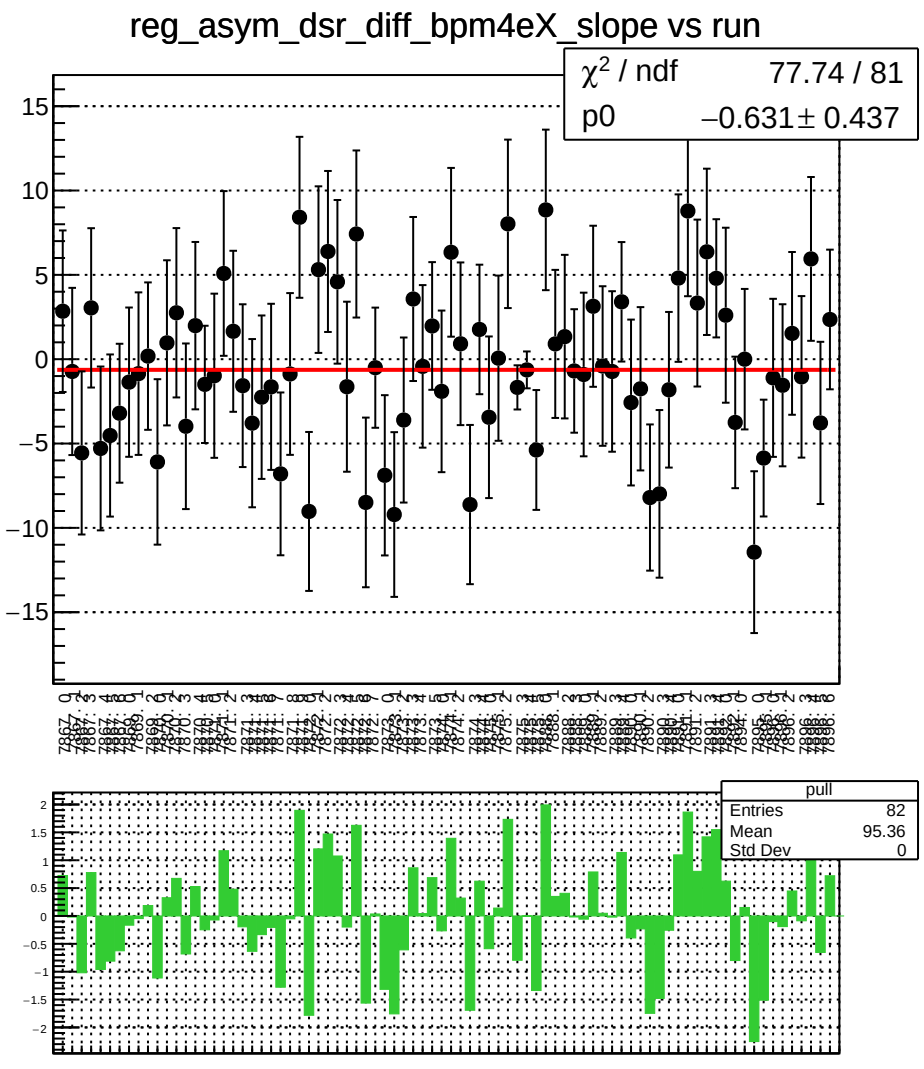

pull1D
Entries 82
Mean 0.003309
Std Dev 1.1

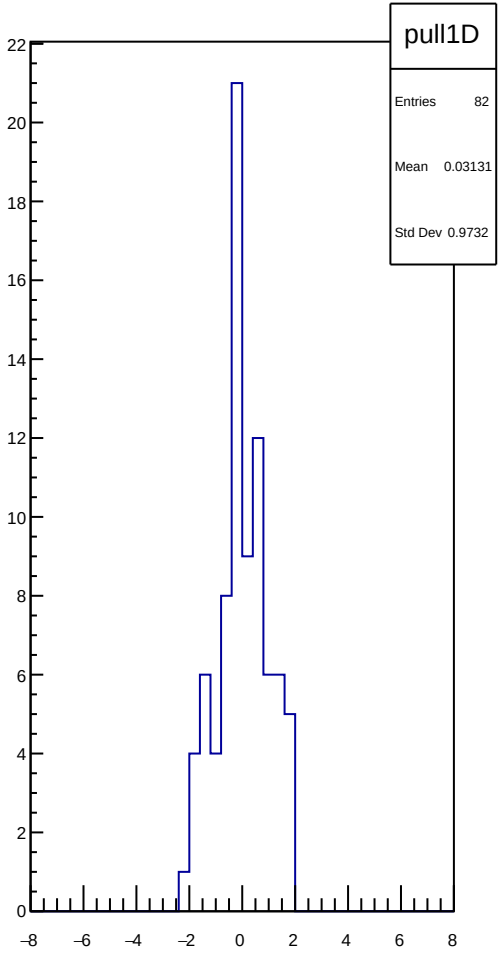

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 75.77 / 81
p0 0.669 ± 0.5174
pull
Entries 82
Mean 98.76
Std Dev 0

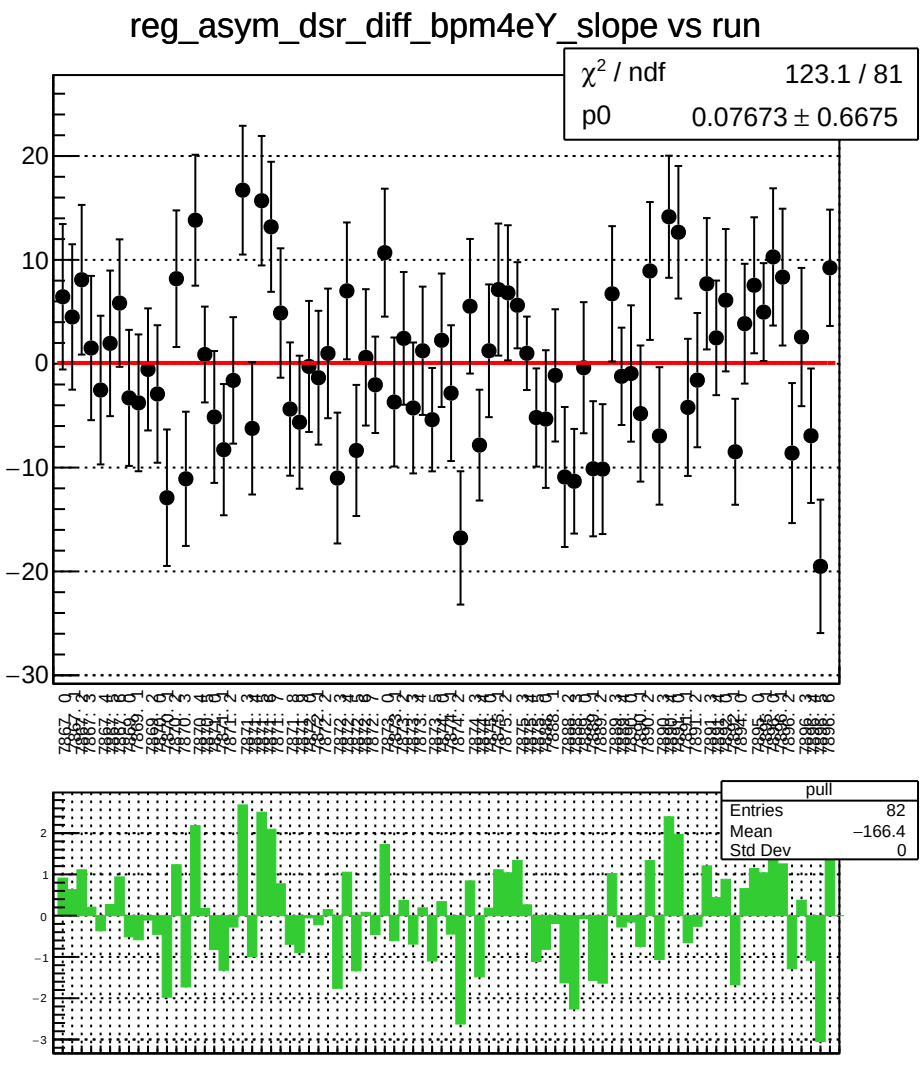

pull1D
Entries 82
Mean −0.03142
Std Dev 0.9607

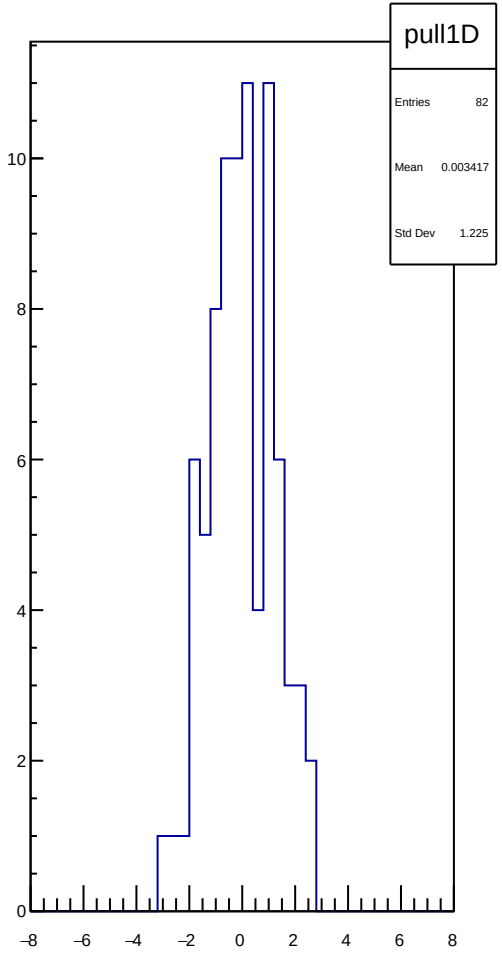

reg_asym_dsr_diff_bpm4aY_slope vs run
χ^2 / ndf 118.6 / 81
p0 0.06537 ± 0.5746
pull
Entries 82
Mean −194.6
Std Dev 0

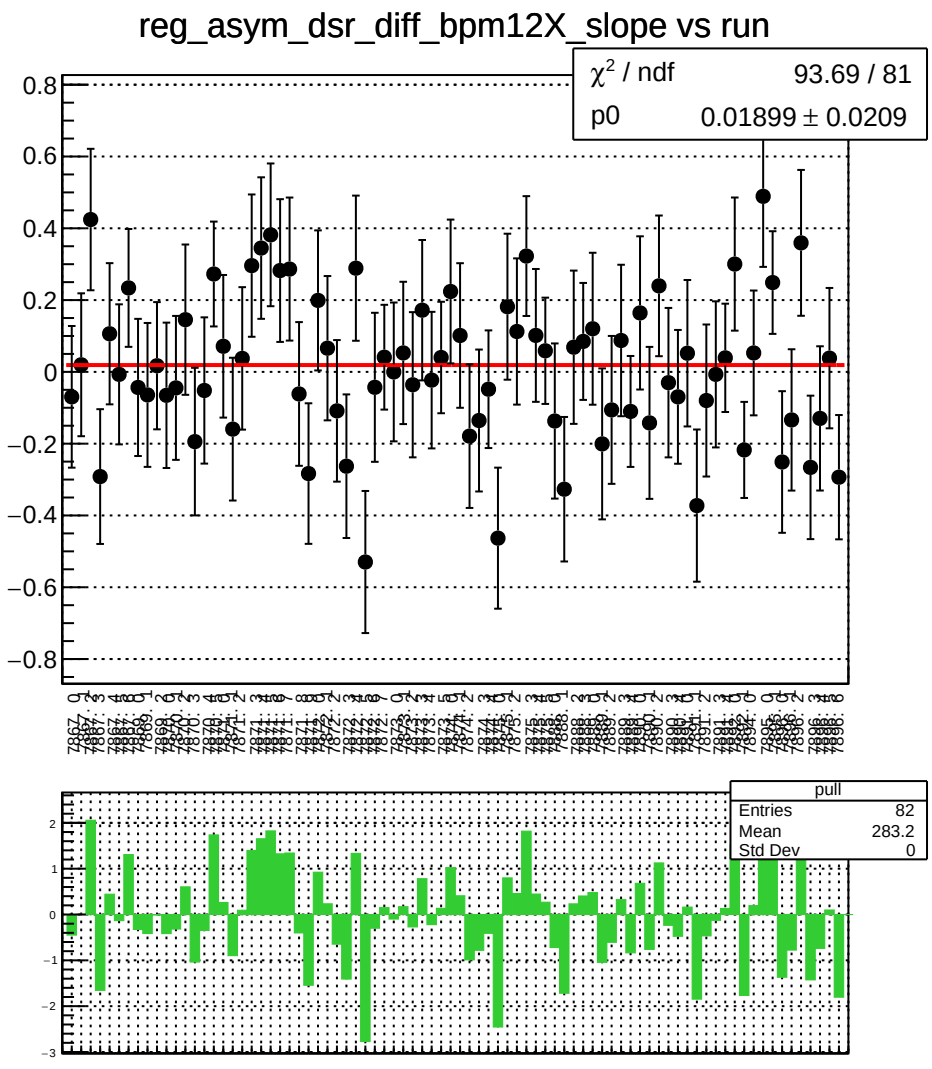

pull1D
Entries 82
Mean −0.005291
Std Dev 1.202

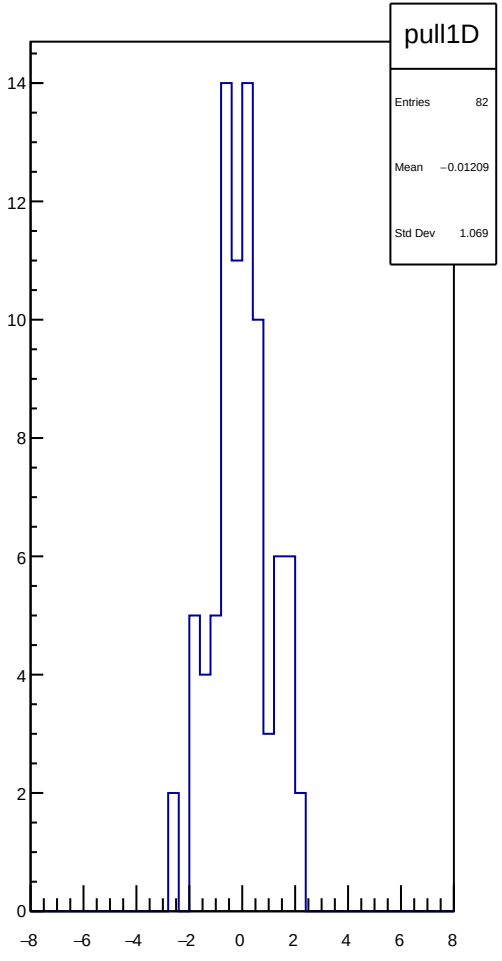

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 77.74 / 81
p0 −0.631 ± 0.437
pull
Entries 82
Mean 95.36
Std Dev 0

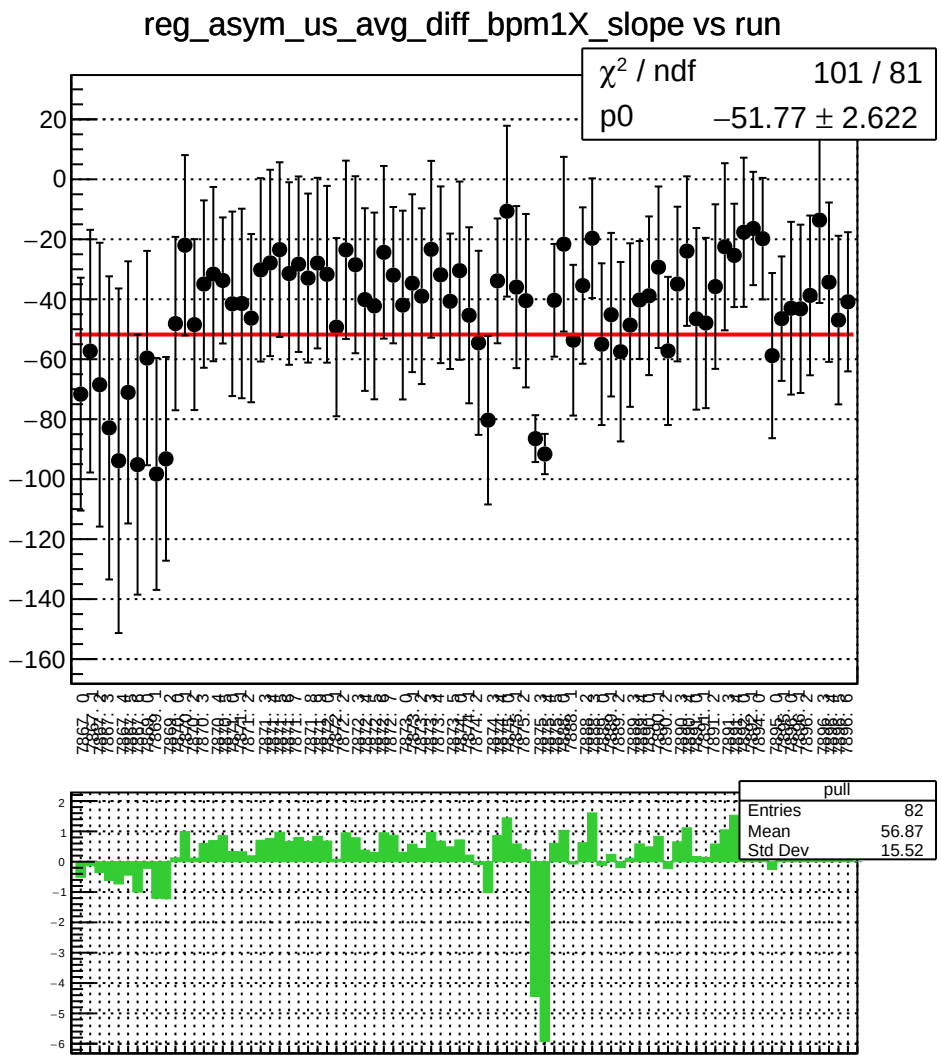

pull1D
Entries 82
Mean 0.03131
Std Dev 0.9732

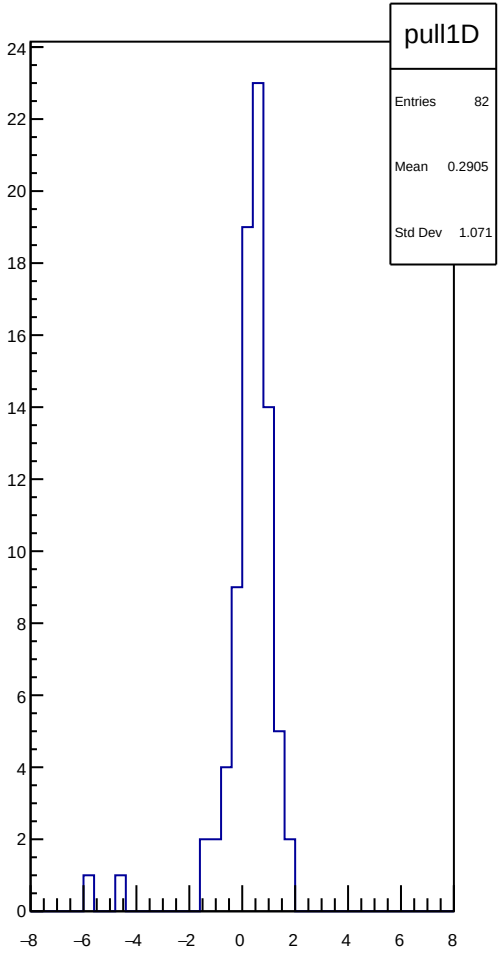

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 123.1 / 81
p0 0.07673 ± 0.6675
pull
Entries 82
Mean −166.4
Std Dev 0

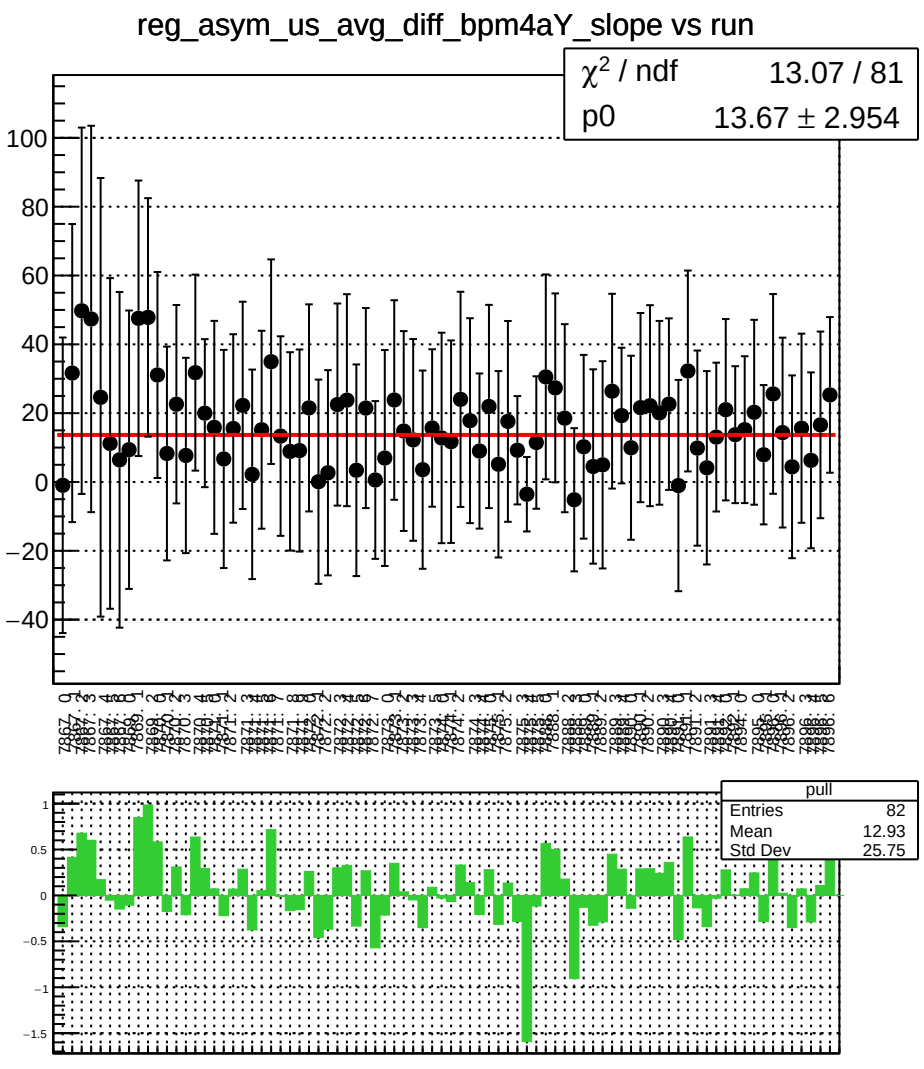

pull1D
Entries 82
Mean 0.003417
Std Dev 1.225

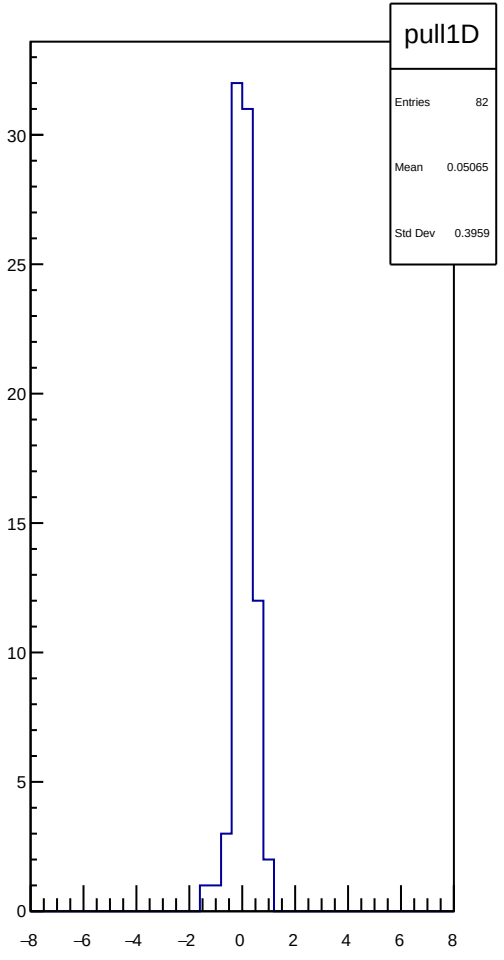

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 93.69 / 81
p0 0.01899 ± 0.0209
pull
Entries 82
Mean 283.2
Std Dev 0

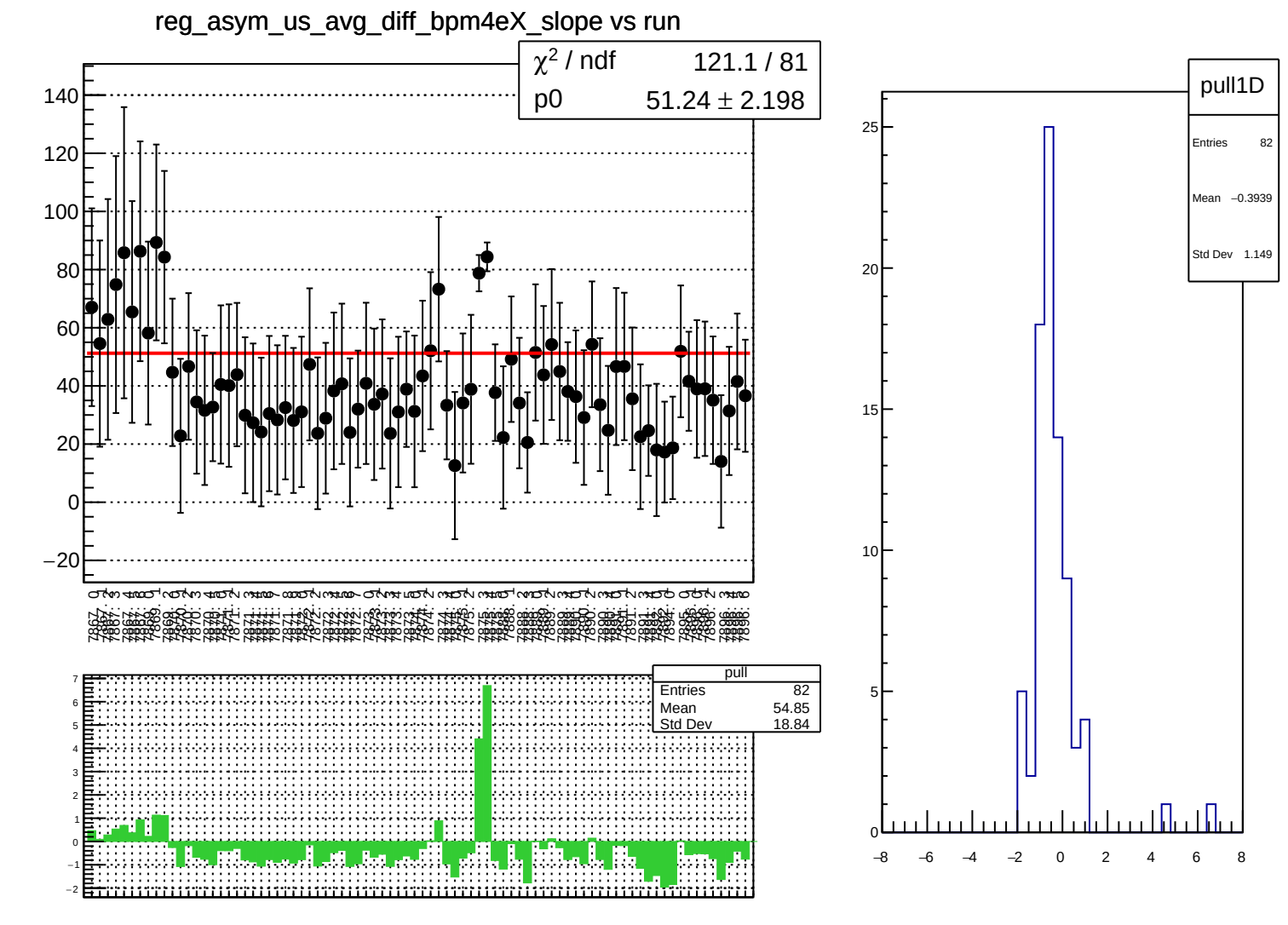

pull1D
Entries 82
Mean −0.01209
Std Dev 1.069

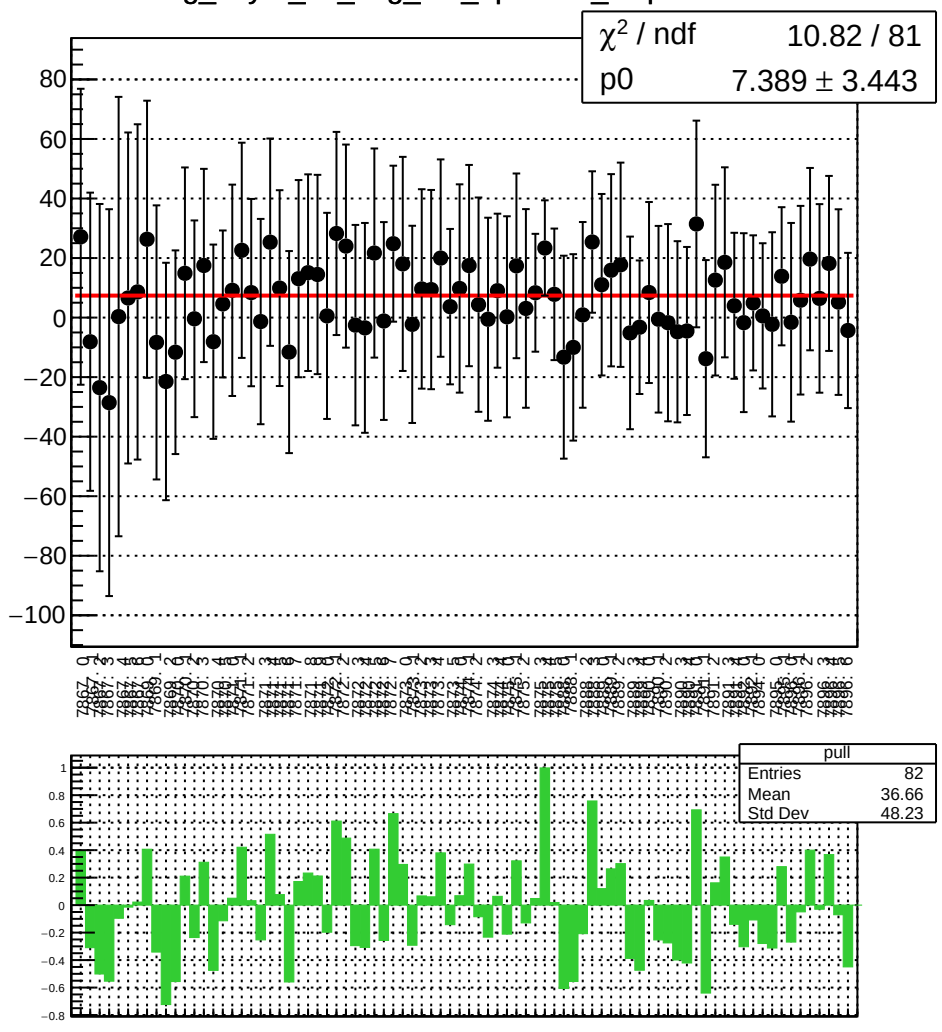

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 101 / 81
p0 −51.77 ± 2.622
pull
Entries 82
Mean 56.87
Std Dev 15.52

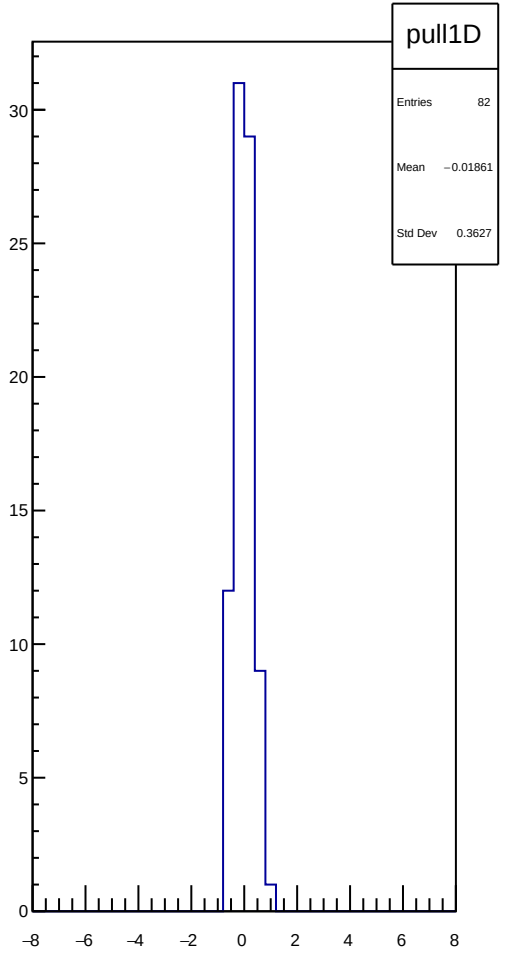

pull1D
Entries 82
Mean 0.2905
Std Dev 1.071

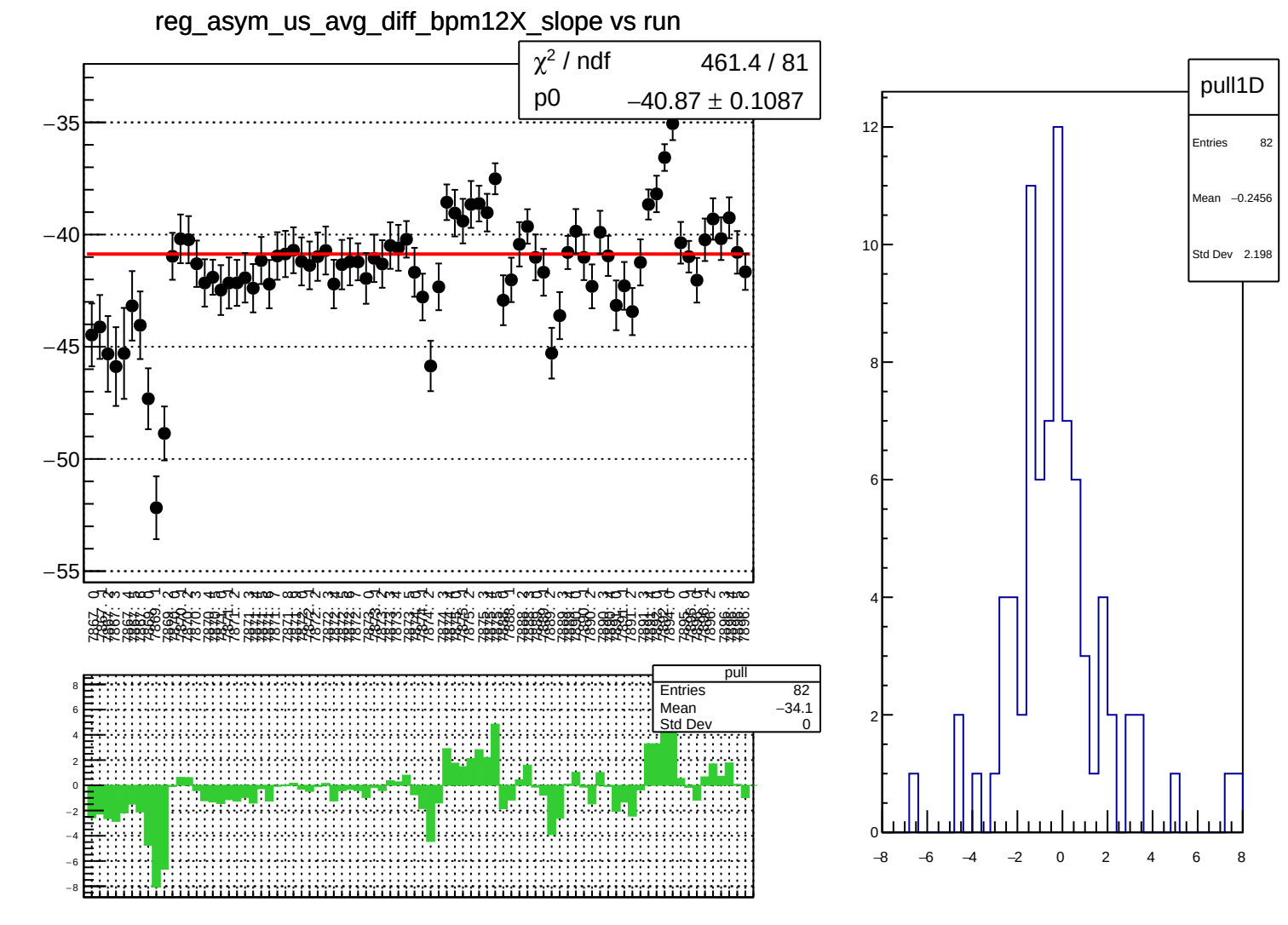

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.07 / 81
p0 13.67 ± 2.954
pull
Entries 82
Mean 12.93
Std Dev 25.75

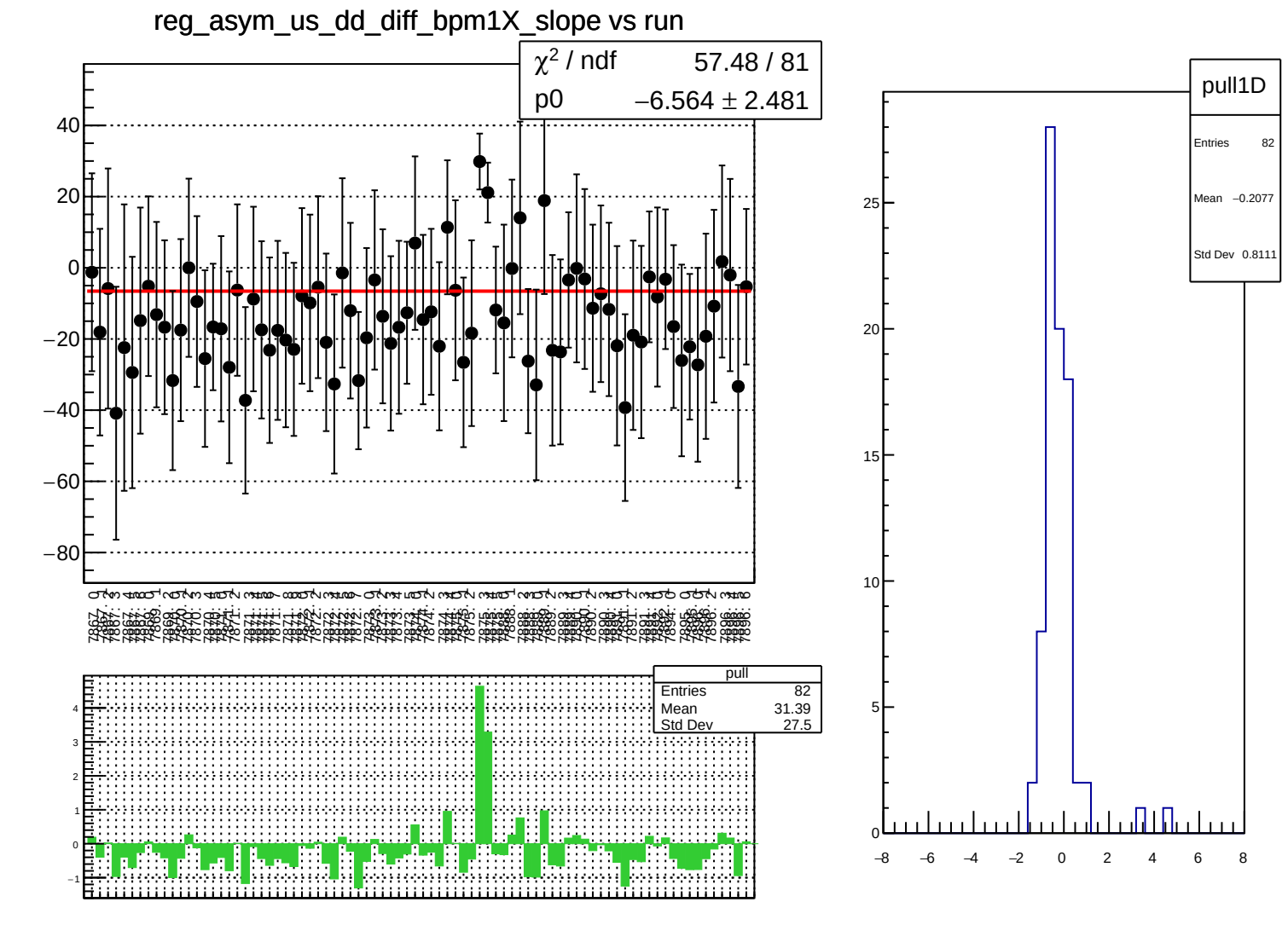

pull1D
Entries 82
Mean 0.05065
Std Dev 0.3959

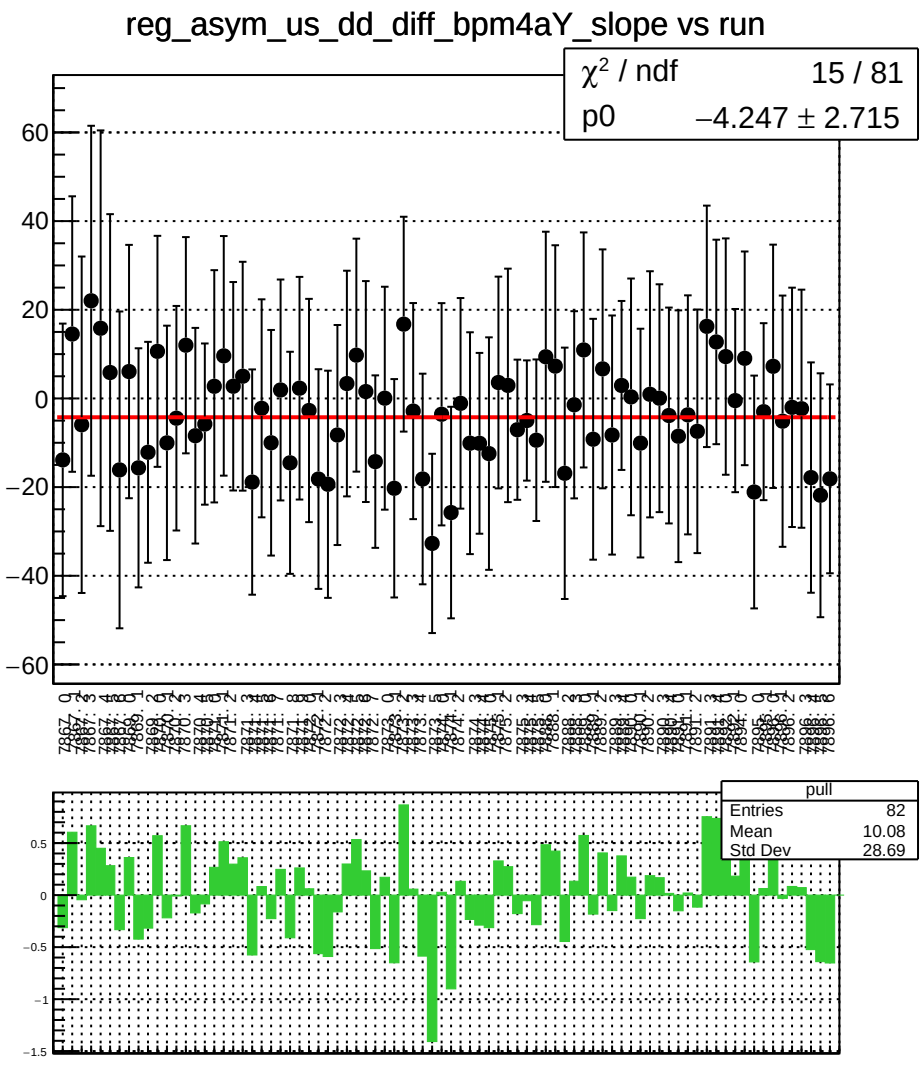

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 121.1 / 81
p0 51.24 ± 2.198
pull
Entries 82
Mean 54.85
Std Dev 18.84
pull1D
Entries 82
Mean −0.3939
Std Dev 1.149

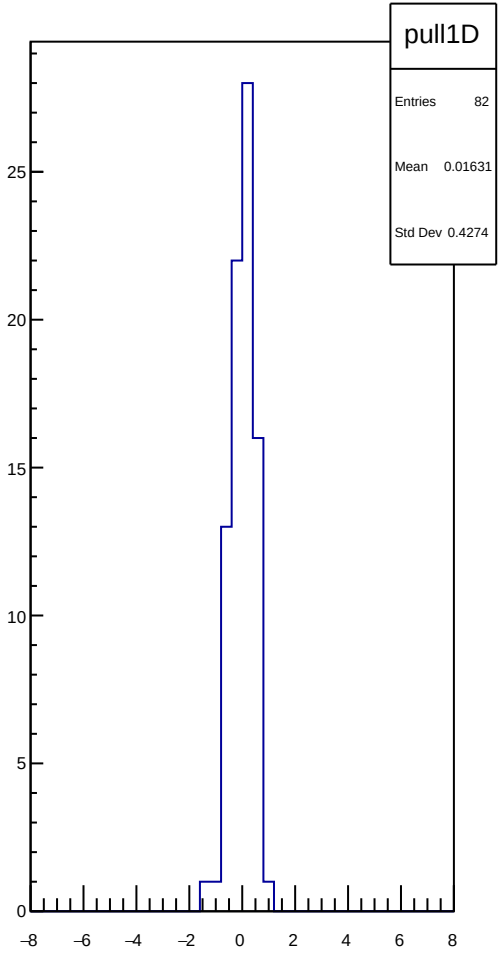

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.82 / 81
p0 7.389 ± 3.443
pull
Entries 82
Mean 36.66
Std Dev 48.23

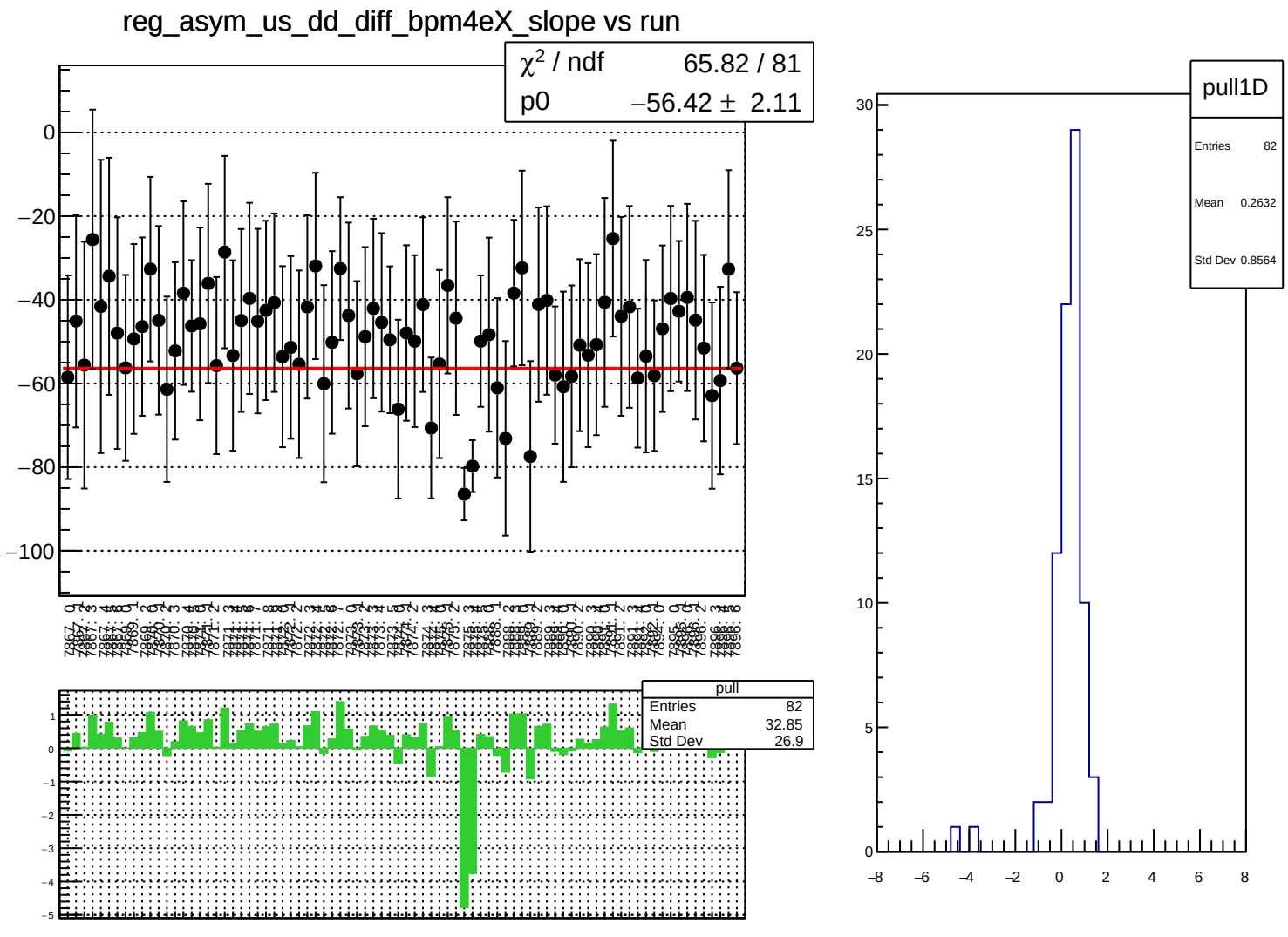

pull1D
Entries 82
Mean −0.01861
Std Dev 0.3627

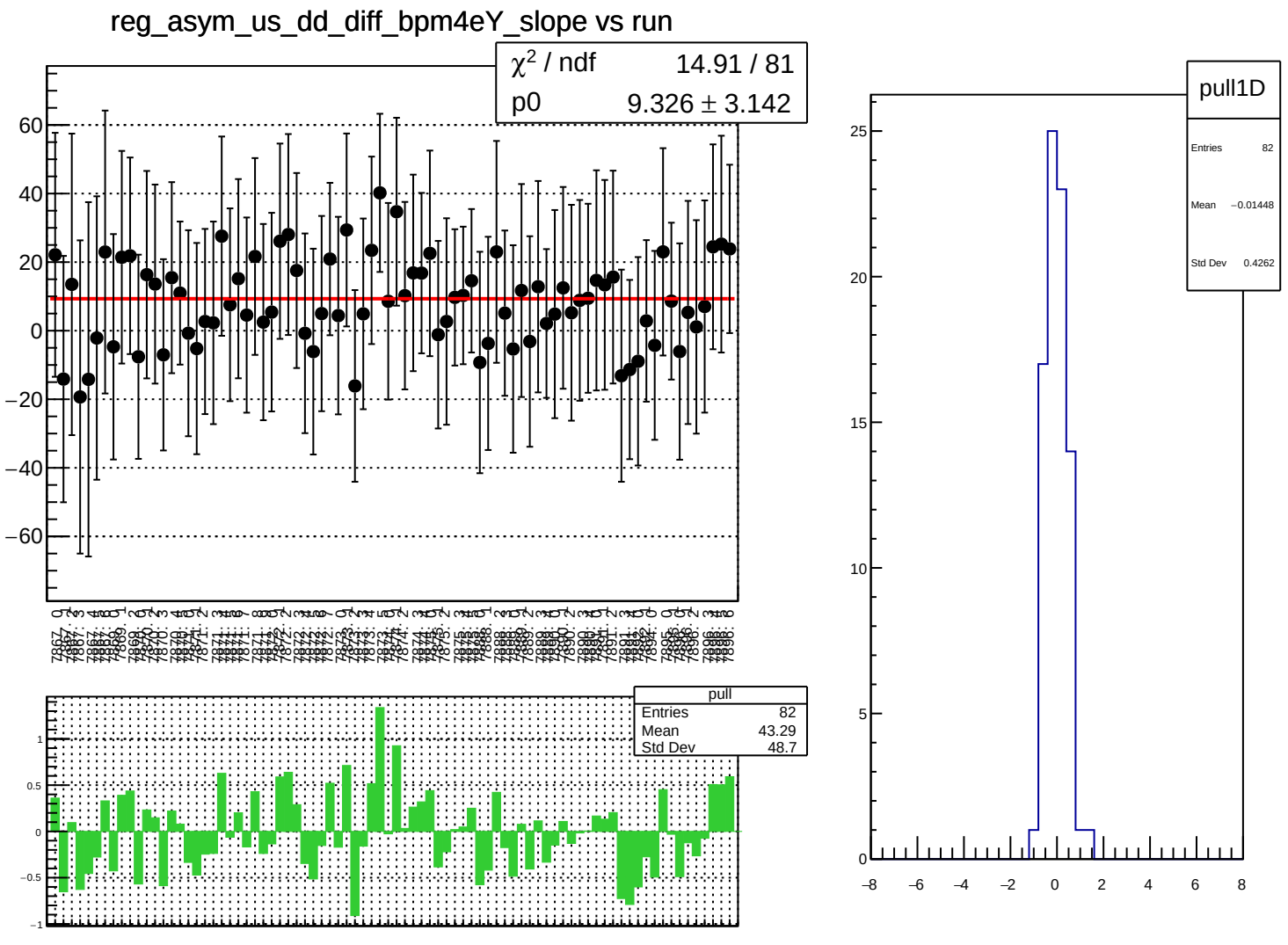

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 461.4 / 81
p0 −40.87 ± 0.1087
pull
Entries 82
Mean −34.1
Std Dev 0
pull1D
Entries 82
Mean −0.2456
Std Dev 2.198

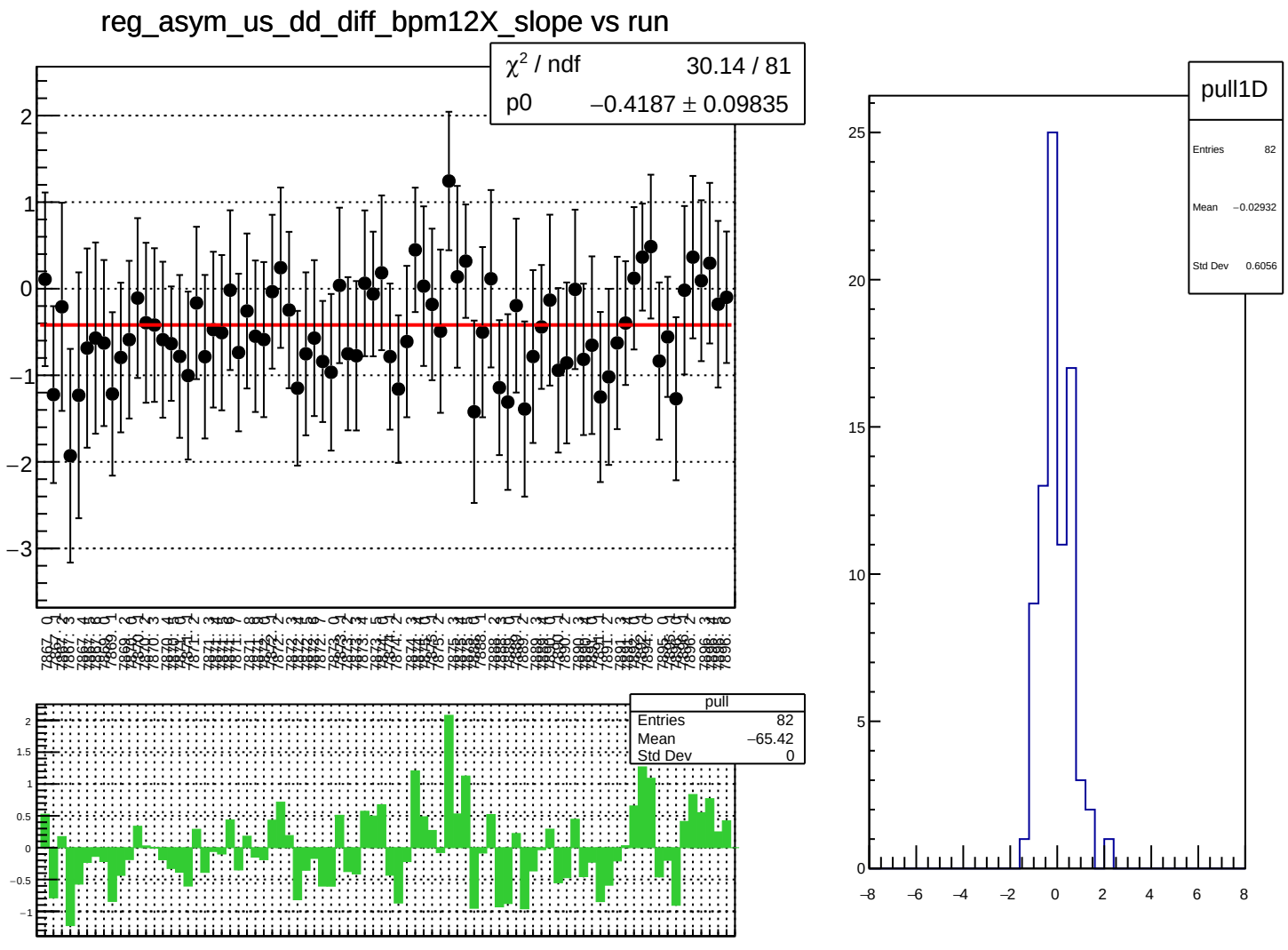

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 57.48 / 81
p0 −6.564 ± 2.481
pull
Entries 82
Mean 31.39
Std Dev 27.5
pull1D
Entries 82
Mean −0.2077
Std Dev 0.8111

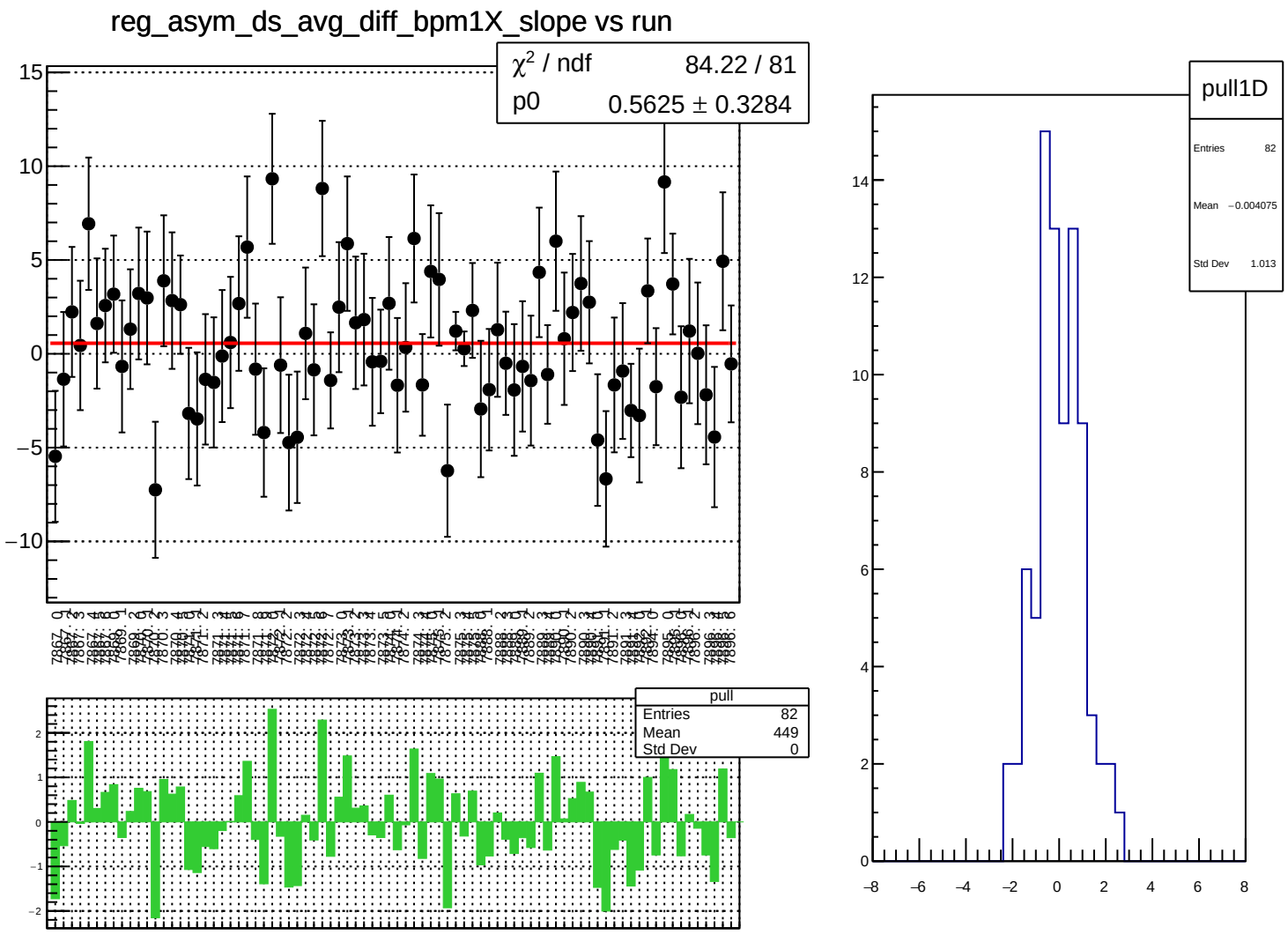

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 15 / 81
p0 −4.247 ± 2.715
pull
Entries 82
Mean 10.08
Std Dev 28.69

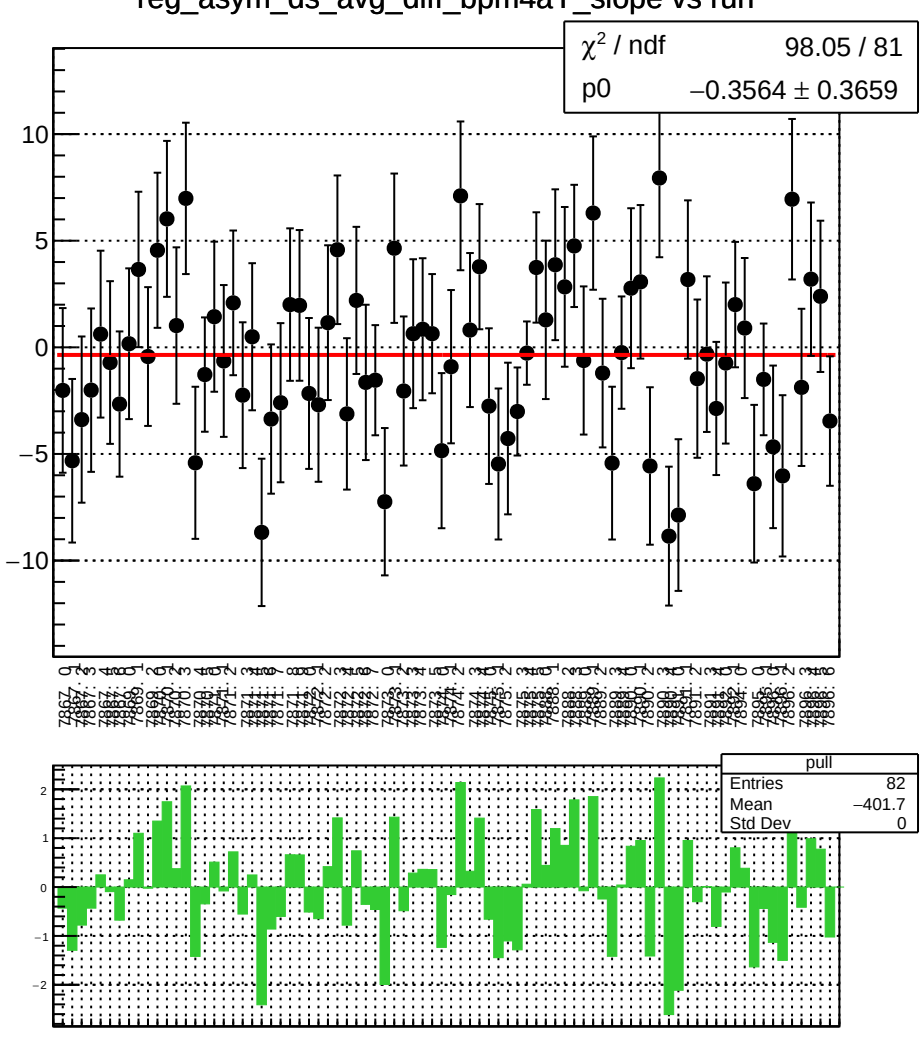

pull1D
Entries 82
Mean 0.01631
Std Dev 0.4274

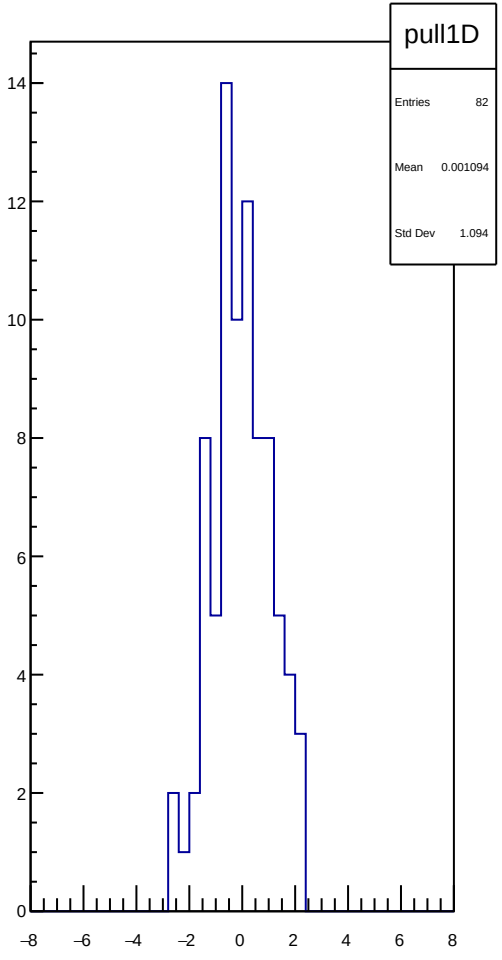

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.82 / 81
p0 −56.42 ± 2.11
pull
Entries 82
Mean 32.85
Std Dev 26.9
pull1D
Entries 82
Mean 0.2632
Std Dev 0.8564

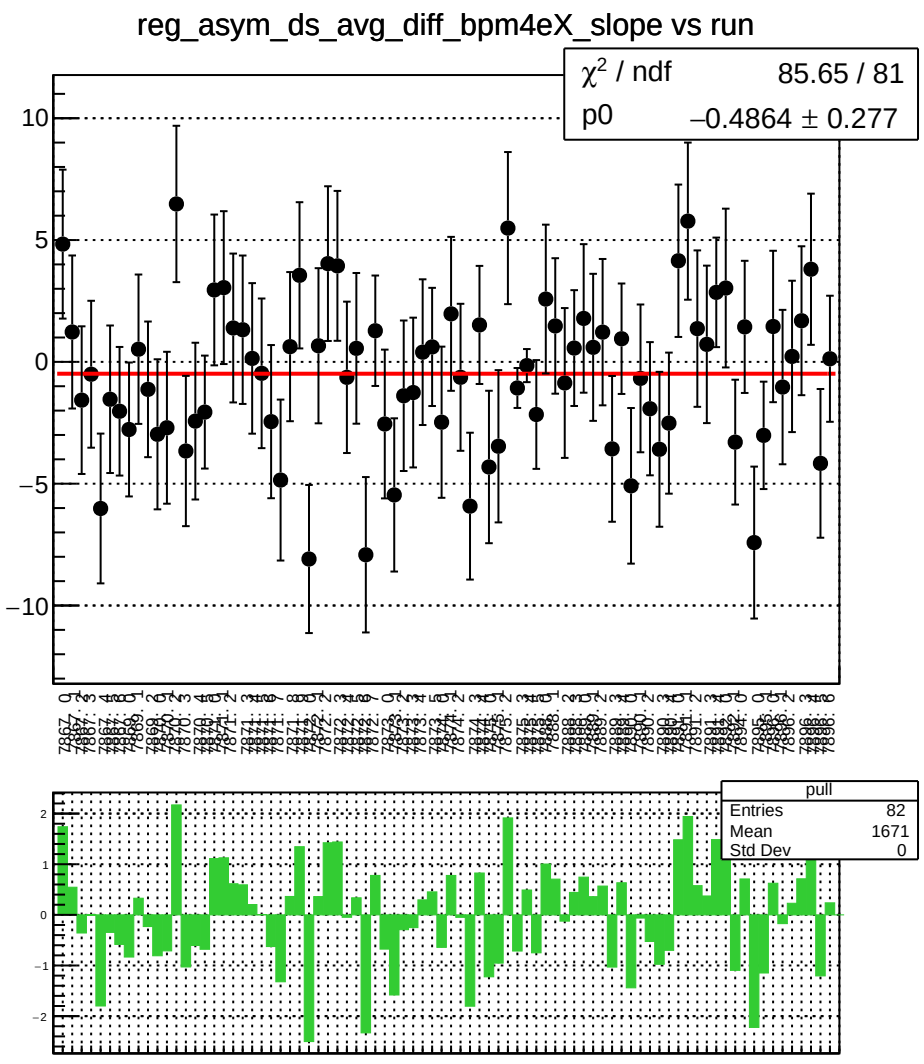

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.91 / 81
p0 9.326 ± 3.142
pull
Entries 82
Mean 43.29
Std Dev 48.7
pull1D
Entries 82
Mean −0.01448
Std Dev 0.4262

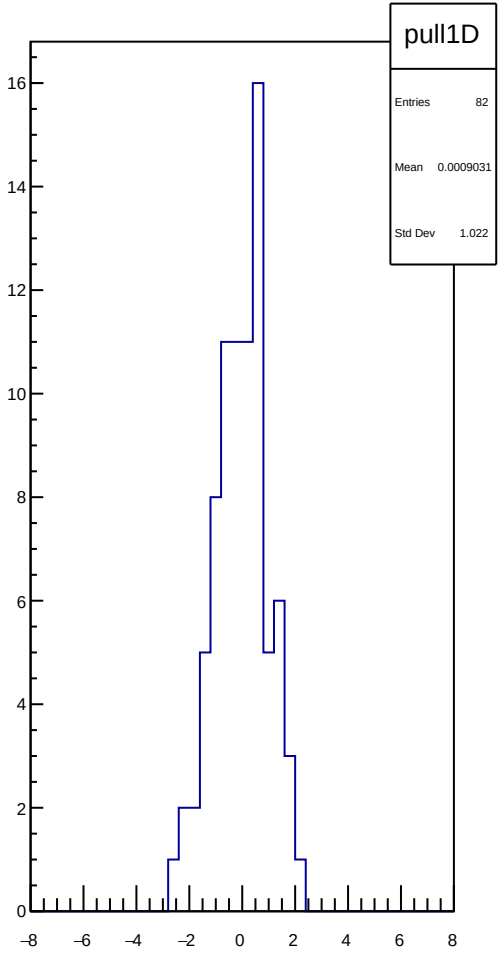

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 30.14 / 81
p0 −0.4187 ± 0.09835
pull
Entries 82
Mean −65.42
Std Dev 0
pull1D
Entries 82
Mean −0.02932
Std Dev 0.6056

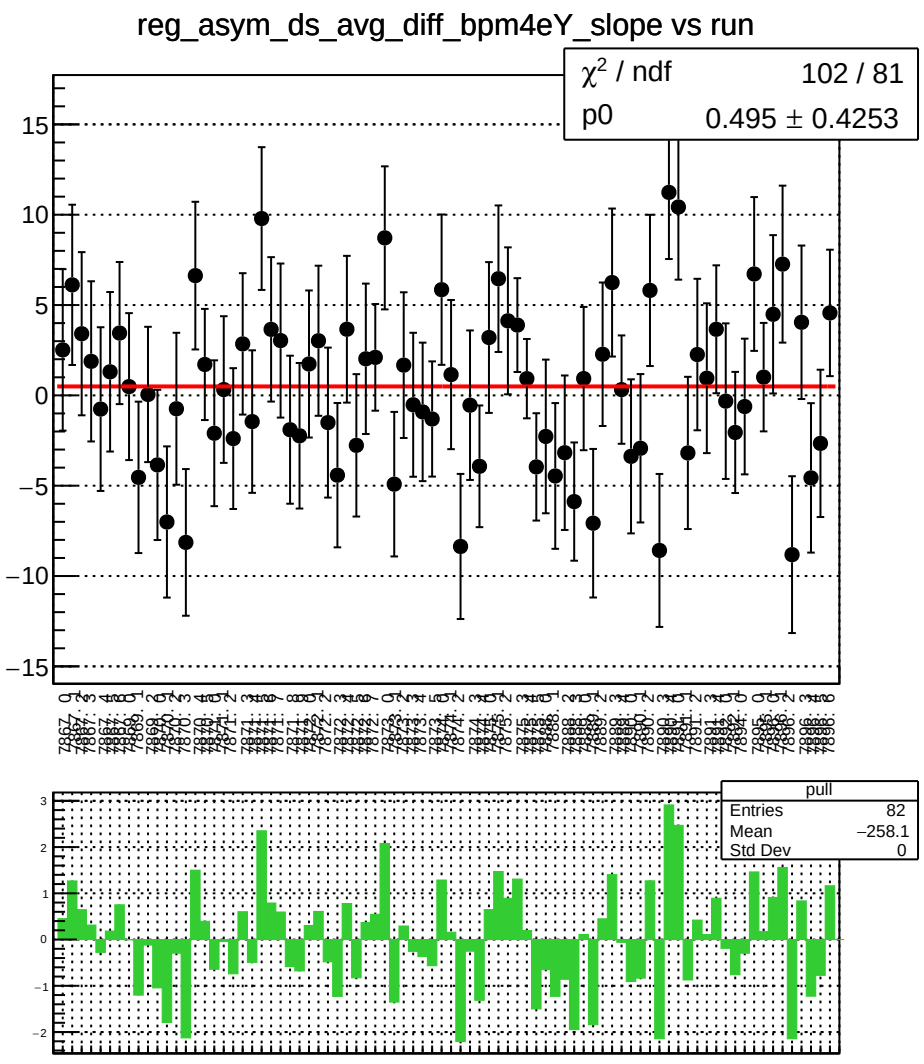

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 84.22 / 81
p0 0.5625 ± 0.3284
pull
Entries 82
Mean 449
Std Dev 0
pull1D
Entries 82
Mean −0.004075
Std Dev 1.013

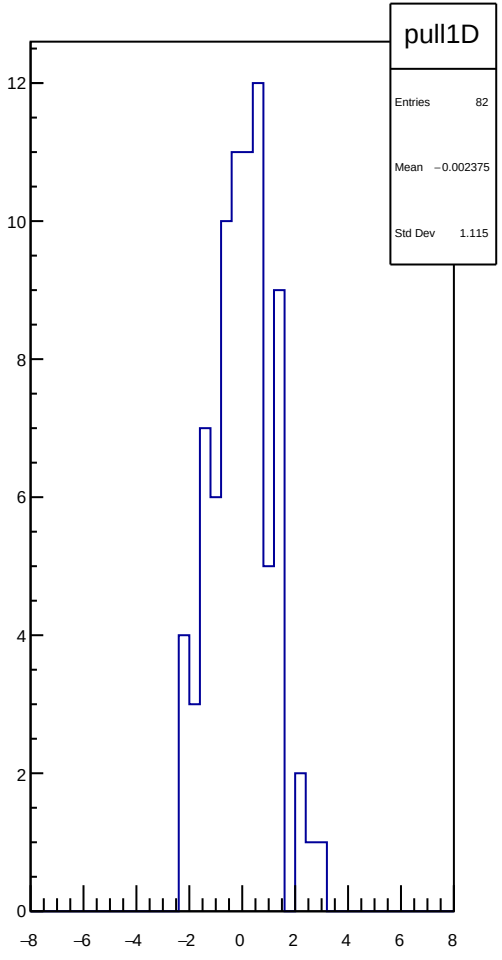

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.05 / 81
p0 −0.3564 ± 0.3659
pull
Entries 82
Mean −401.7
Std Dev 0

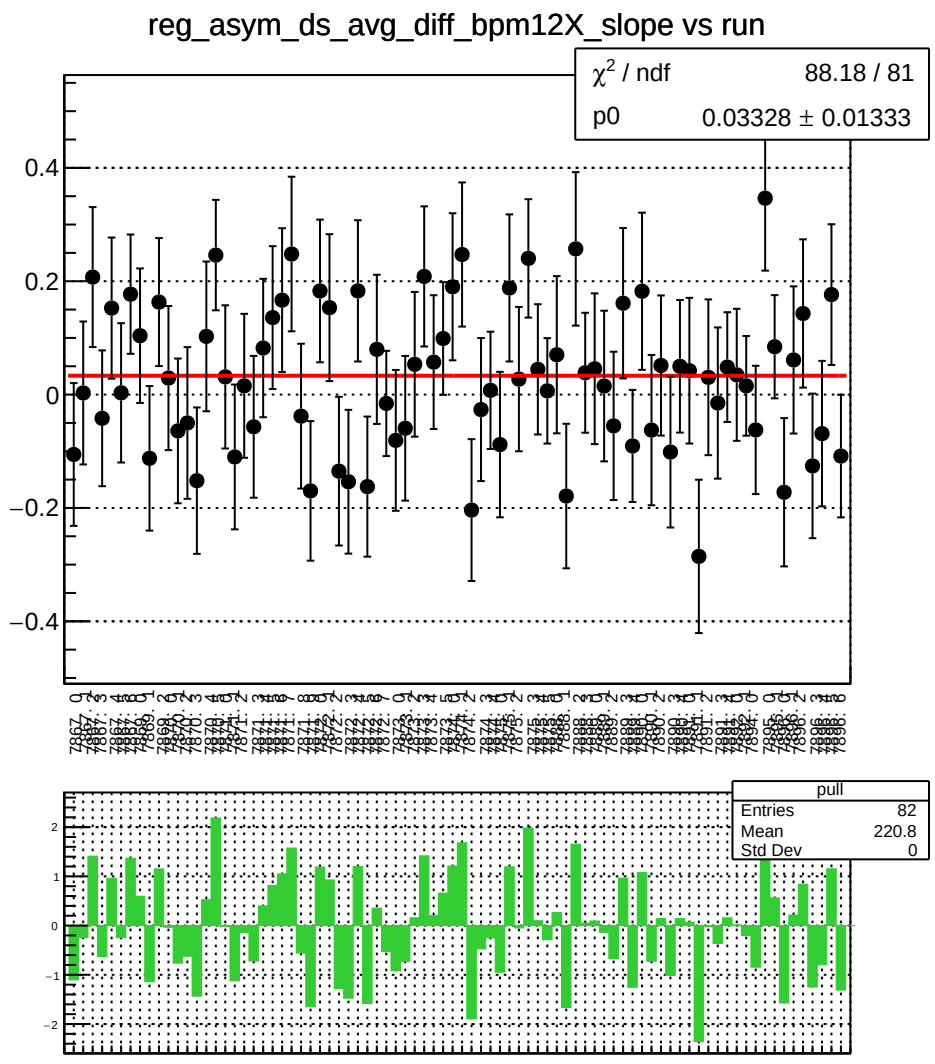

pull1D
Entries 82
Mean 0.001094
Std Dev 1.094

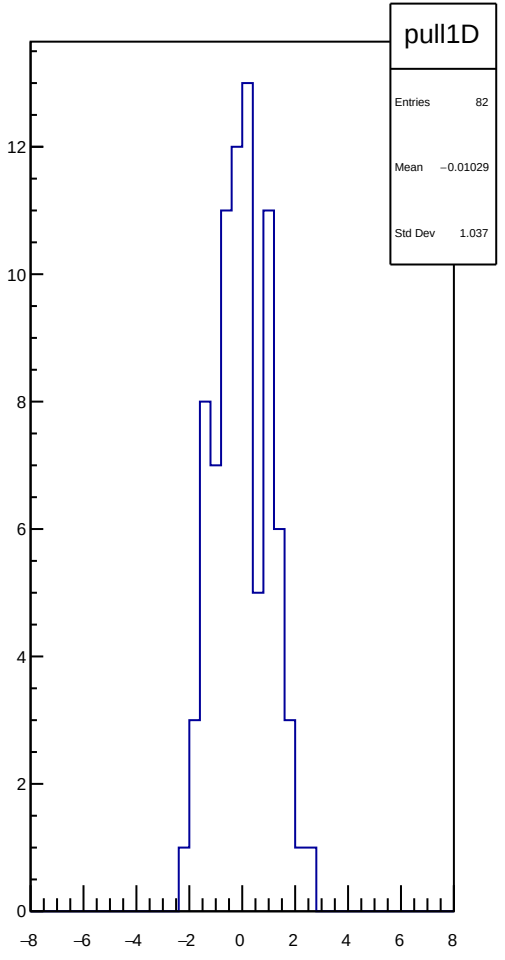

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.65 / 81
p0 −0.4864 ± 0.277
pull
Entries 82
Mean 1671
Std Dev 0

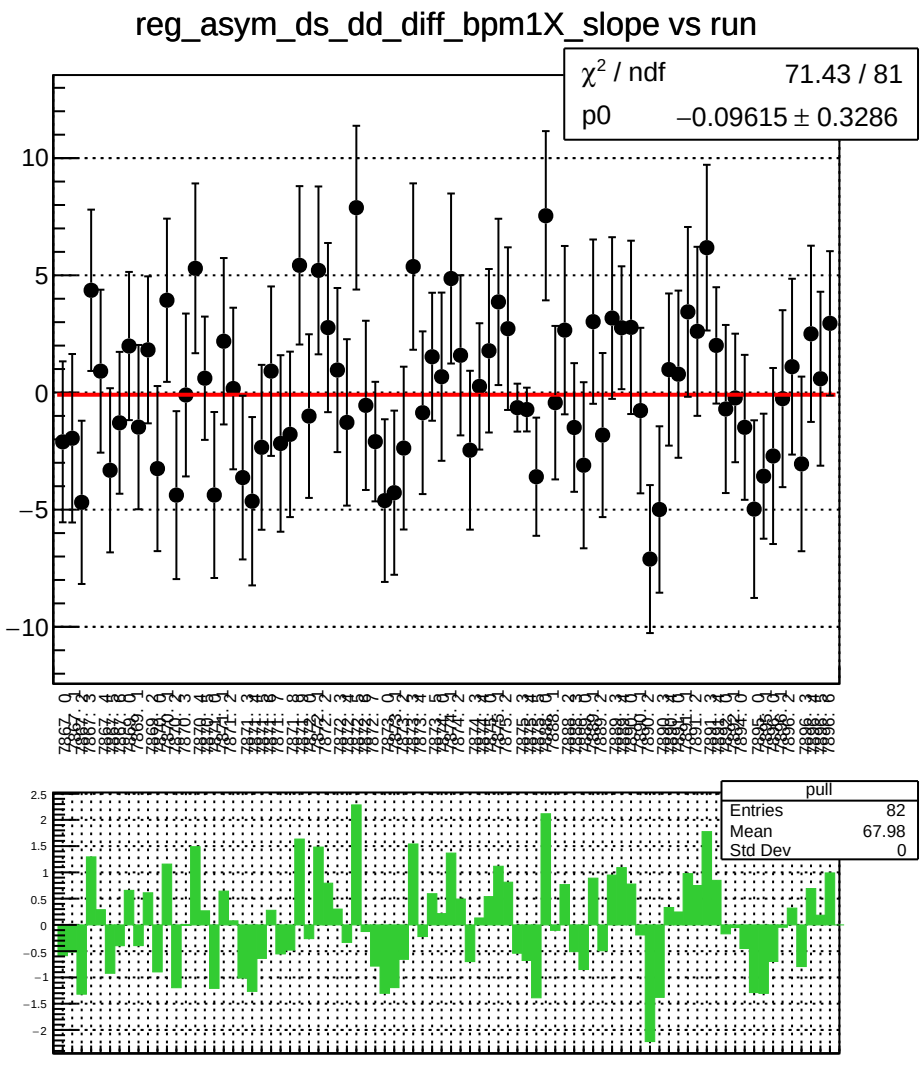

pull1D
Entries 82
Mean 0.0009031
Std Dev 1.022

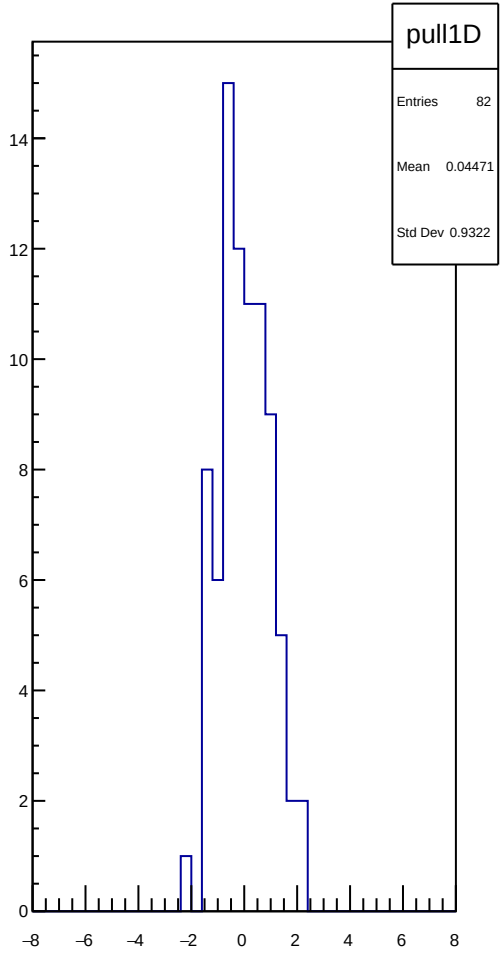

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 102 / 81
p0 0.495 ± 0.4253
pull
Entries 82
Mean −258.1
Std Dev 0

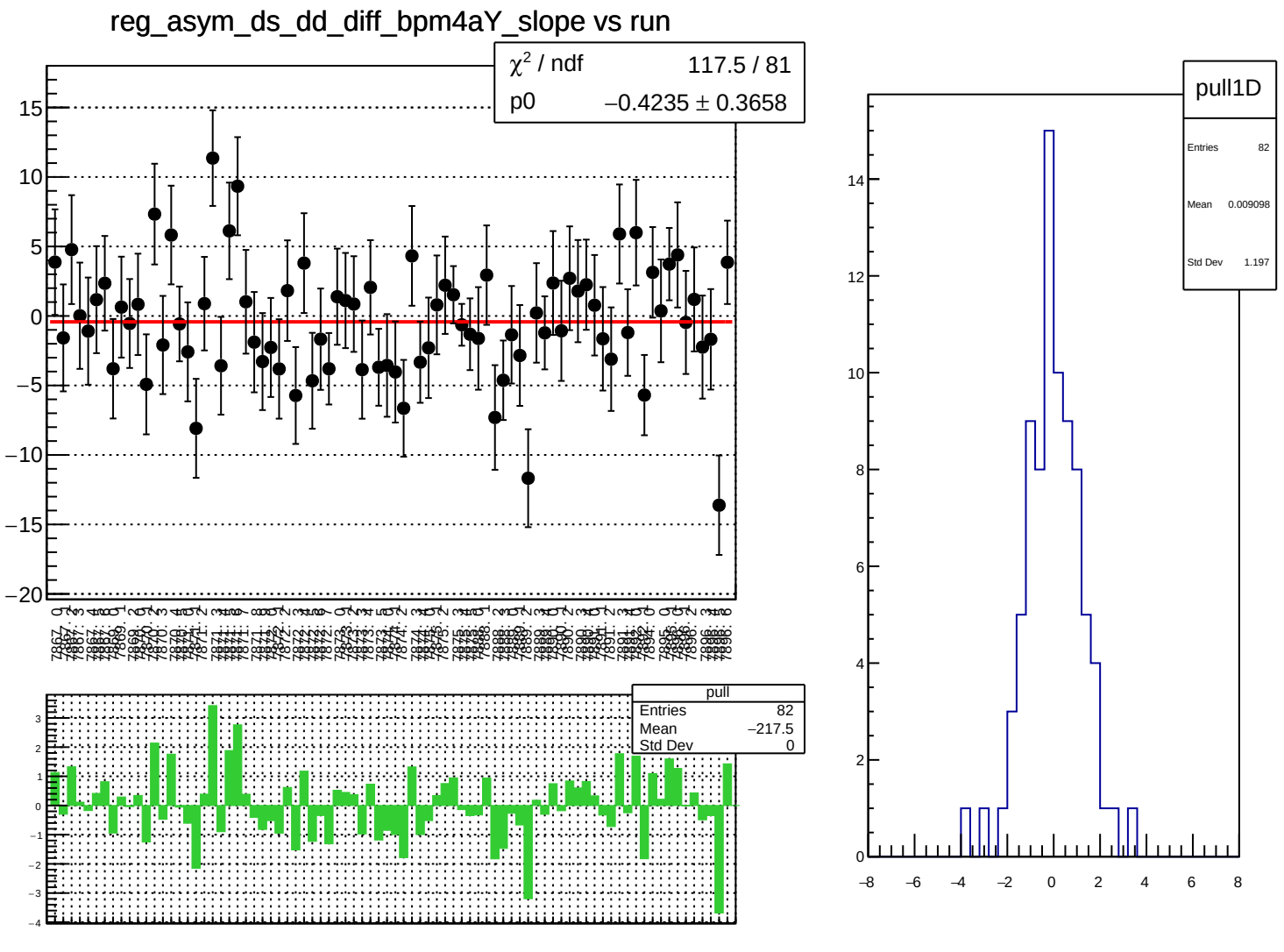

pull1D
Entries 82
Mean −0.002375
Std Dev 1.115

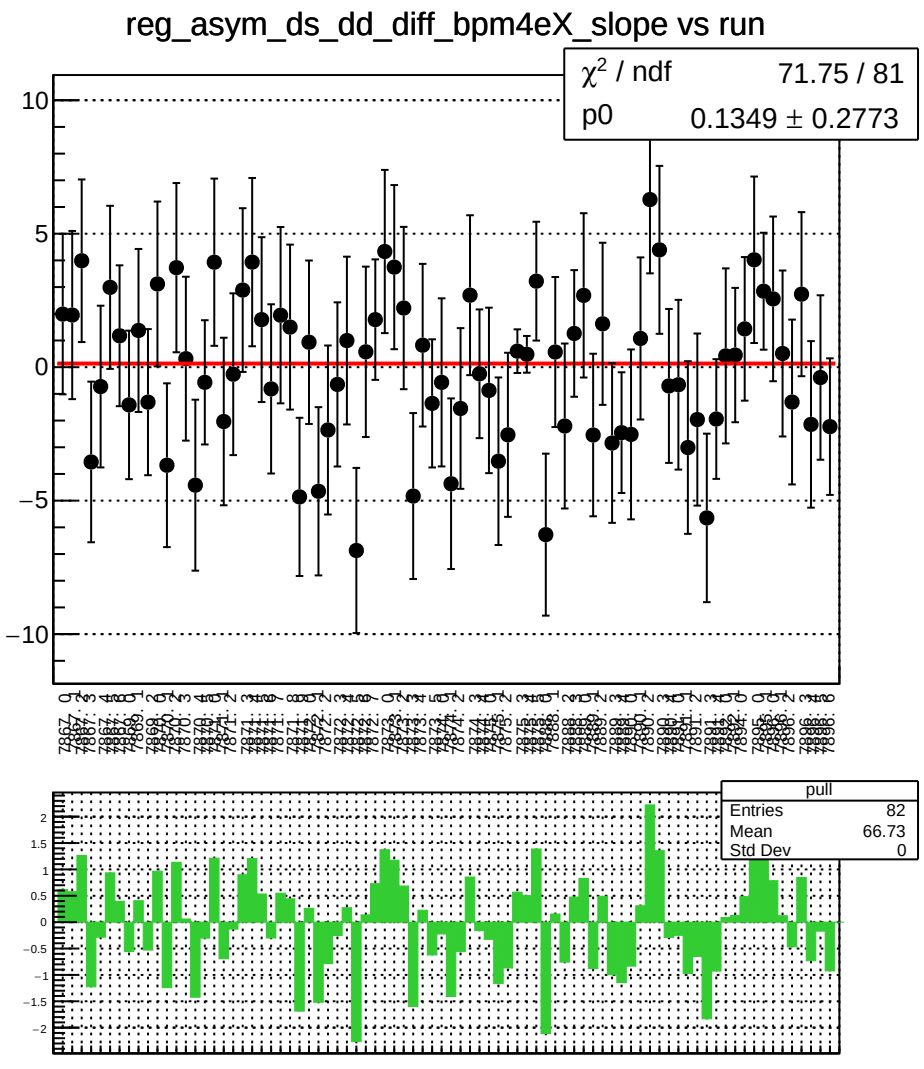

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 88.18 / 81
p0 0.03328 ± 0.01333
pull
Entries 82
Mean 220.8
Std Dev 0

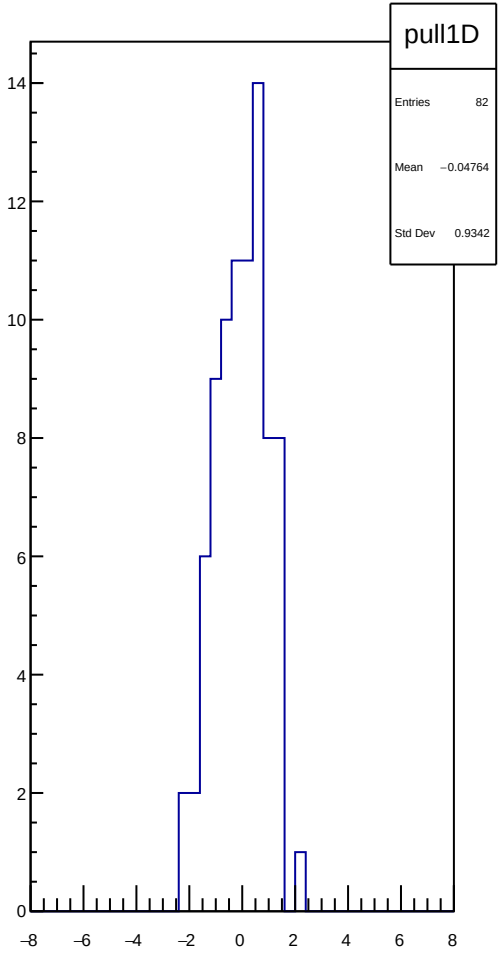

pull1D
Entries 82
Mean −0.01029
Std Dev 1.037

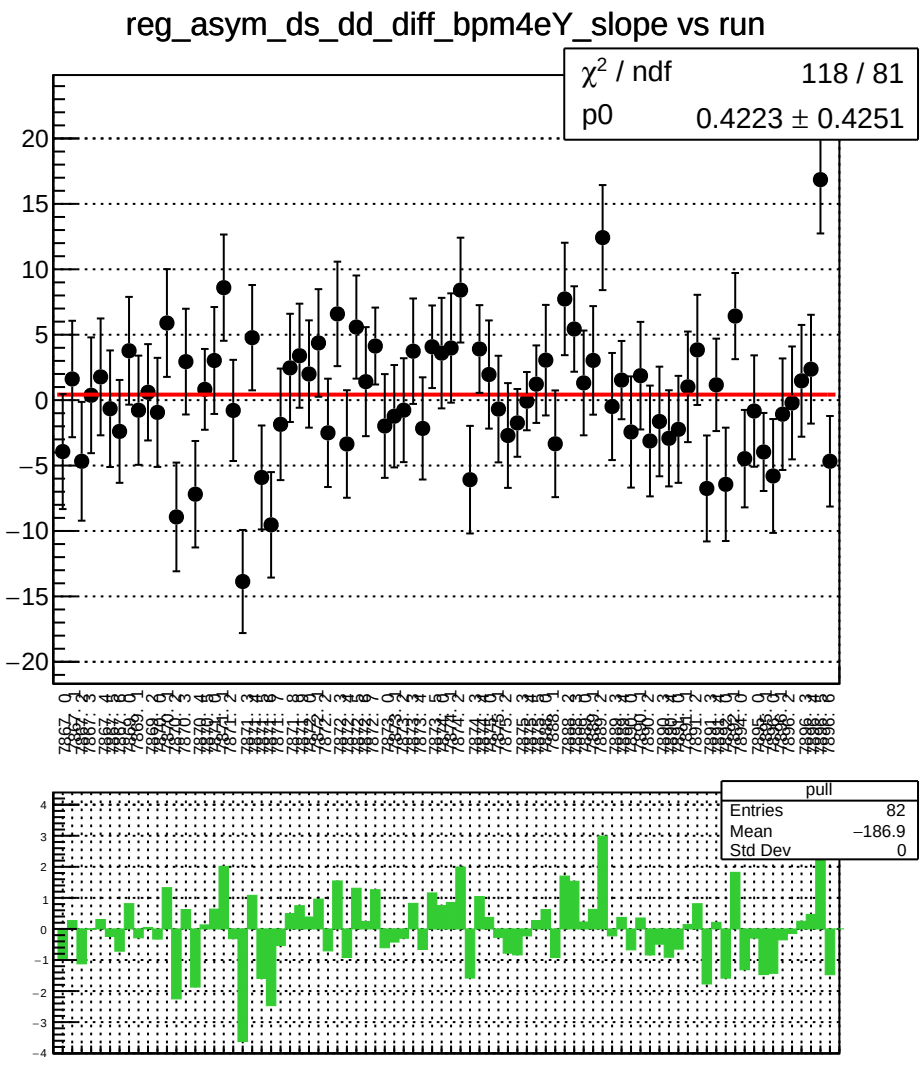

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 71.43 / 81
p0 −0.09615 ± 0.3286
pull
Entries 82
Mean 67.98
Std Dev 0

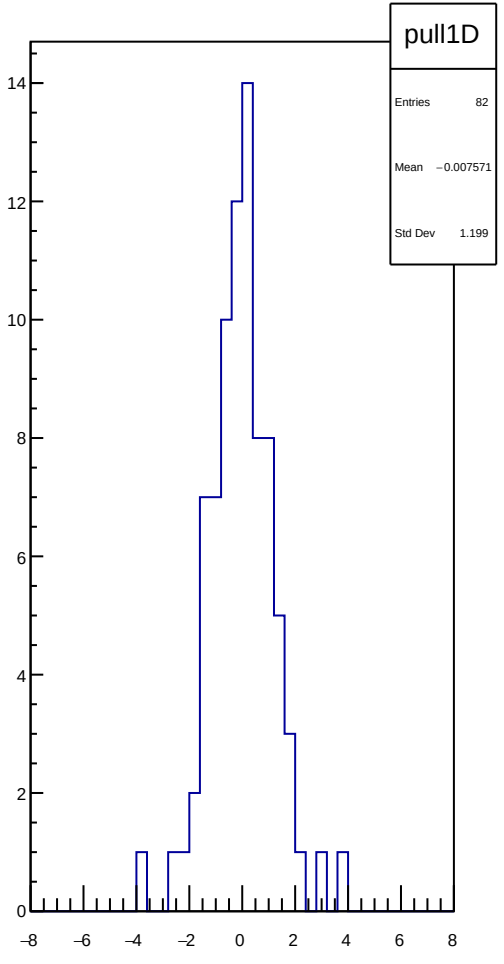

pull1D
Entries 82
Mean 0.04471
Std Dev 0.9322

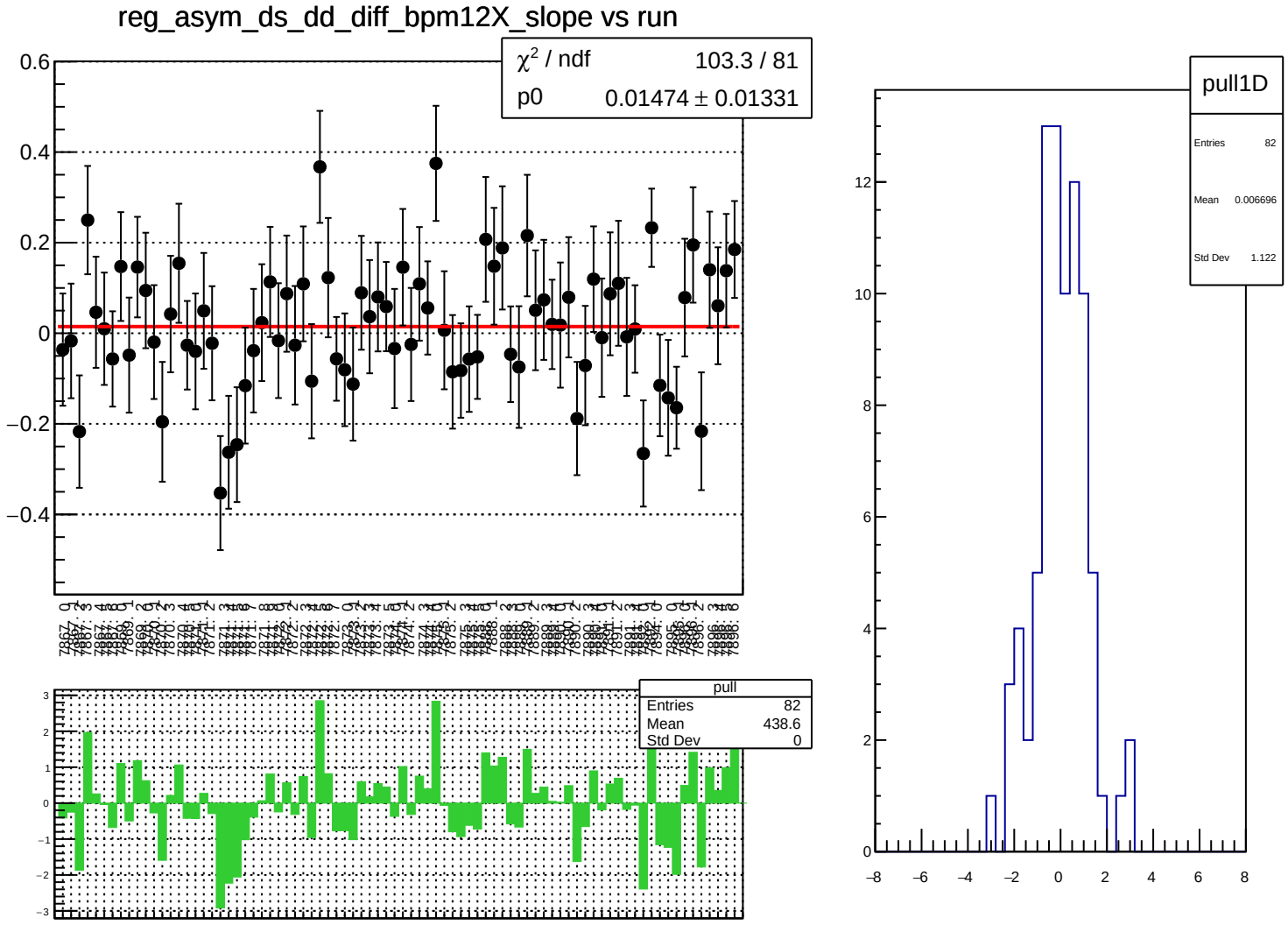

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 117.5 / 81
p0 −0.4235 ± 0.3658
pull
Entries 82
Mean −217.5
Std Dev 0
pull1D
Entries 82
Mean 0.009098
Std Dev 1.197

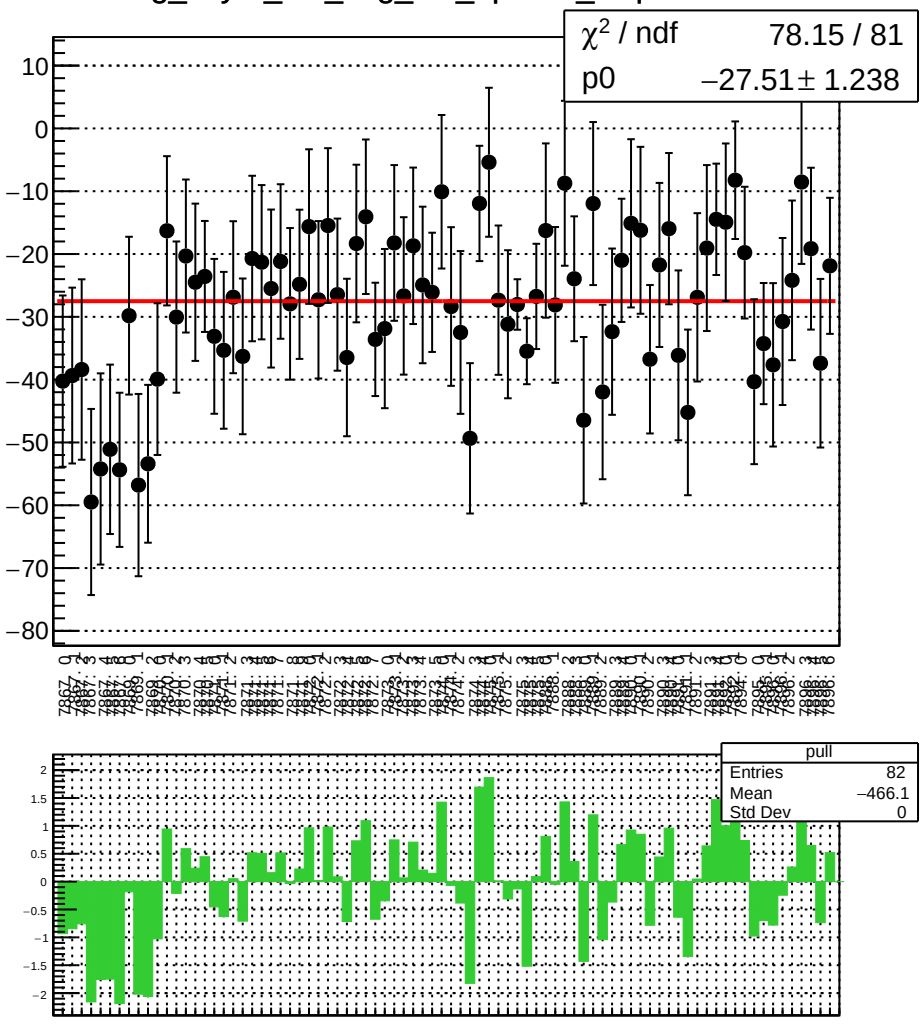

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 71.75 / 81
p0 0.1349 ± 0.2773
pull
Entries 82
Mean 66.73
Std Dev 0

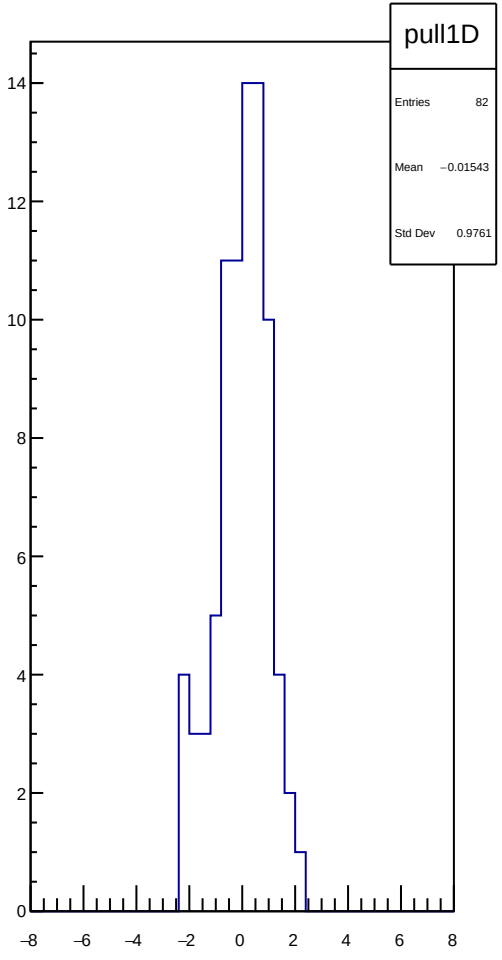

pull1D
Entries 82
Mean −0.04764
Std Dev 0.9342

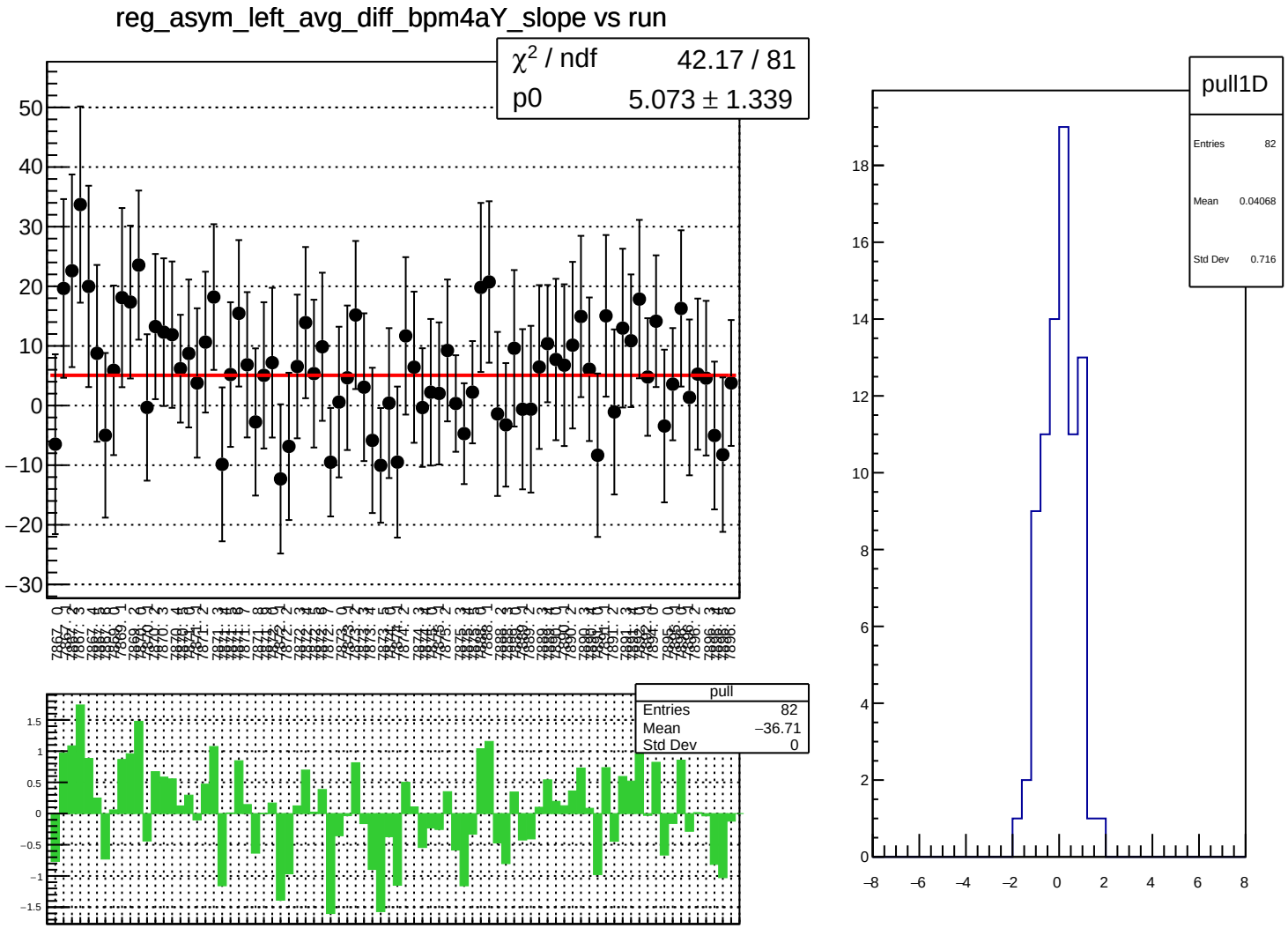

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 118 / 81
p0 0.4223 ± 0.4251
pull
Entries 82
Mean −186.9
Std Dev 0

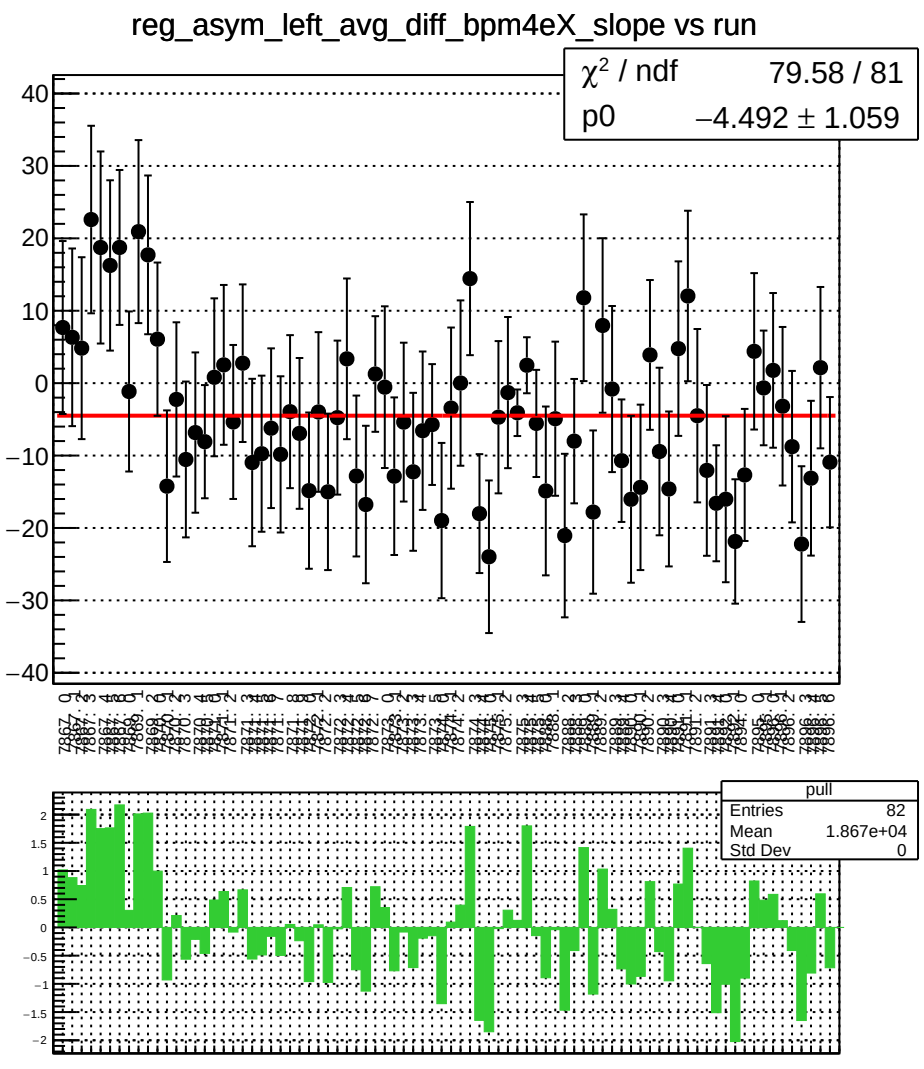

pull1D
Entries 82
Mean −0.007571
Std Dev 1.199

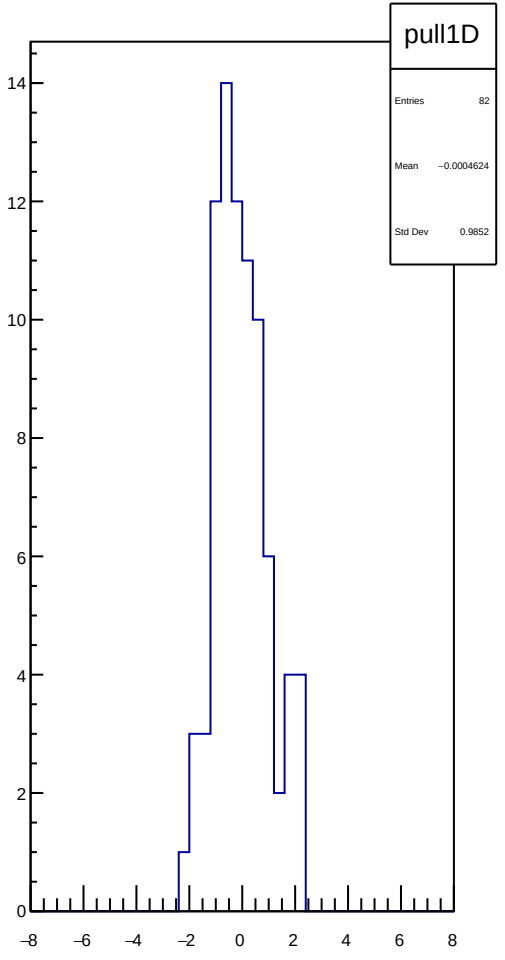

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 103.3 / 81
p0 0.01474 ± 0.01331
pull
Entries 82
Mean 438.6
Std Dev 0
pull1D
Entries 82
Mean 0.006696
Std Dev 1.122

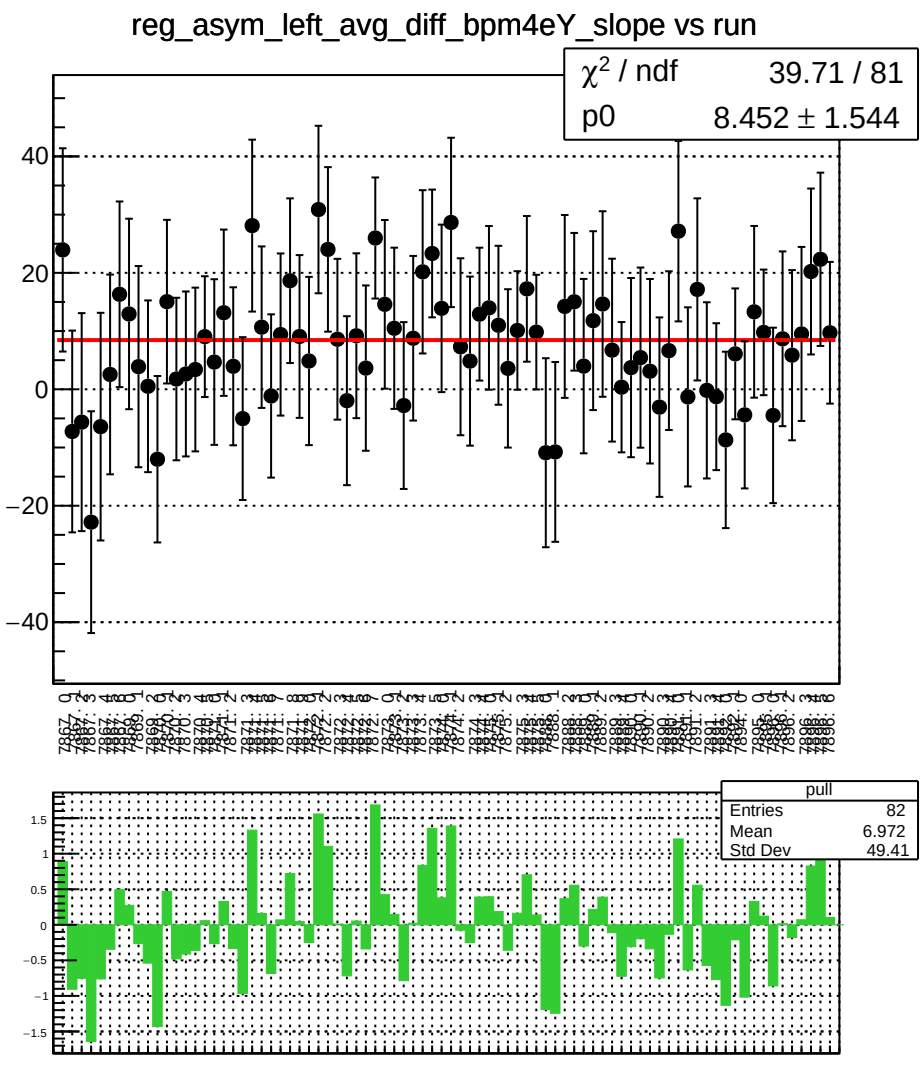

reg_asym_left_avg_diff_bpm1X_slope vs run
χ^2 / ndf 78.15 / 81
p0 −27.51± 1.238
pull
Entries 82
Mean −466.1
Std Dev 0

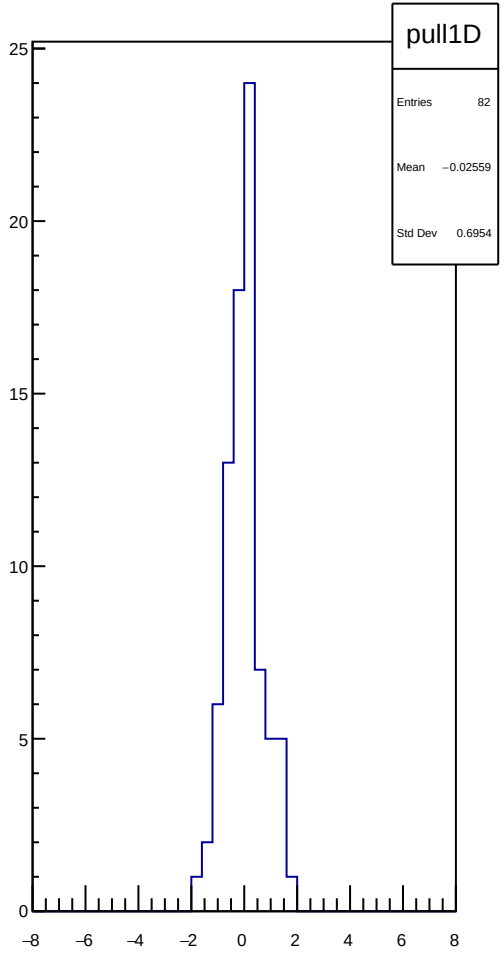

pull1D
Entries 82
Mean −0.01543
Std Dev 0.9761

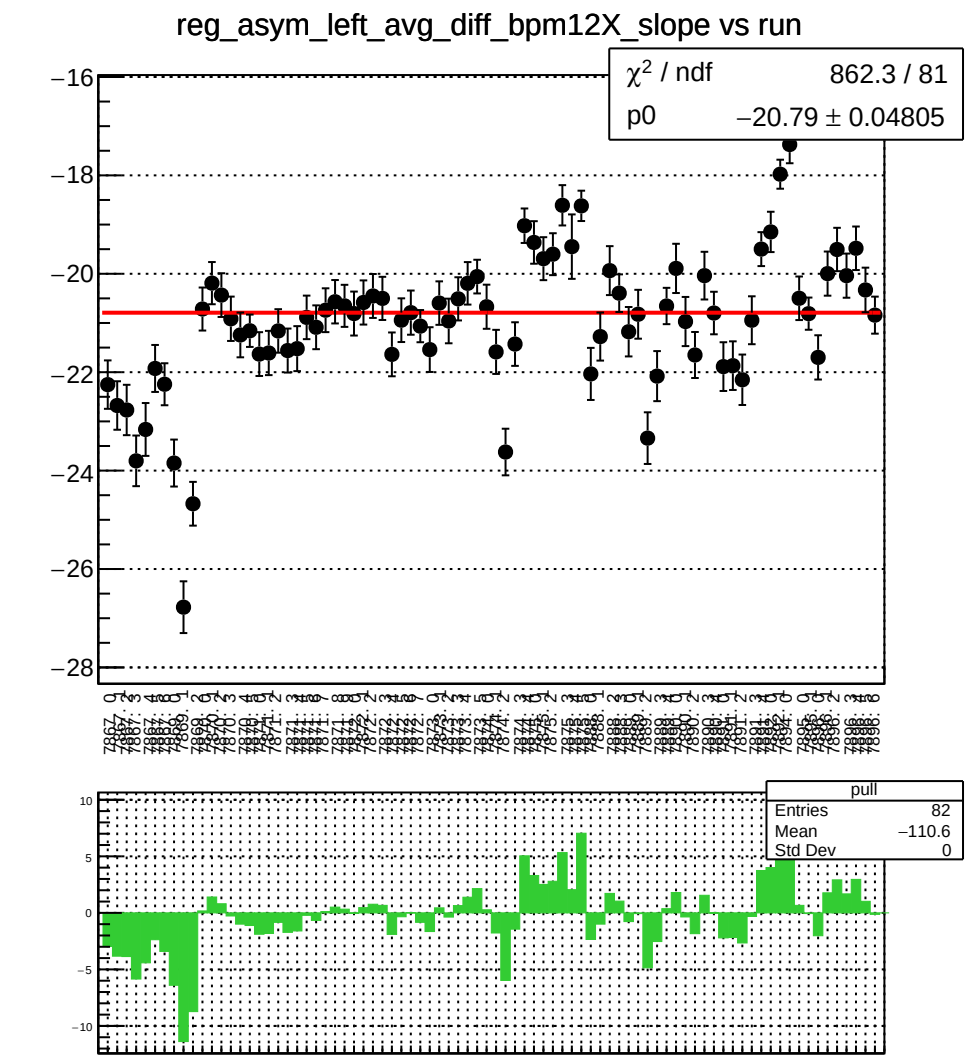

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 42.17 / 81
p0 5.073 ± 1.339
pull
Entries 82
Mean −36.71
Std Dev 0
pull1D
Entries 82
Mean 0.04068
Std Dev 0.716

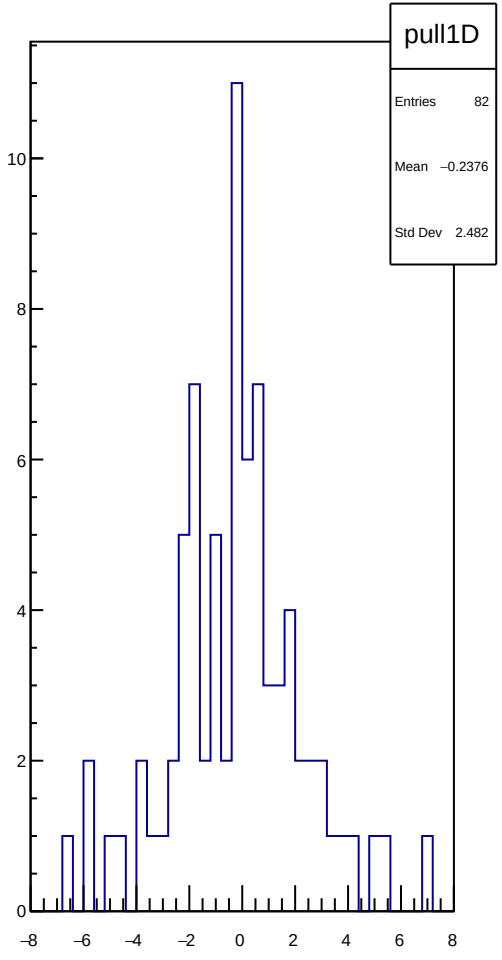

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.58 / 81
p0 −4.492 ± 1.059
pull
Entries 82
Mean 1.867e+04
Std Dev 0

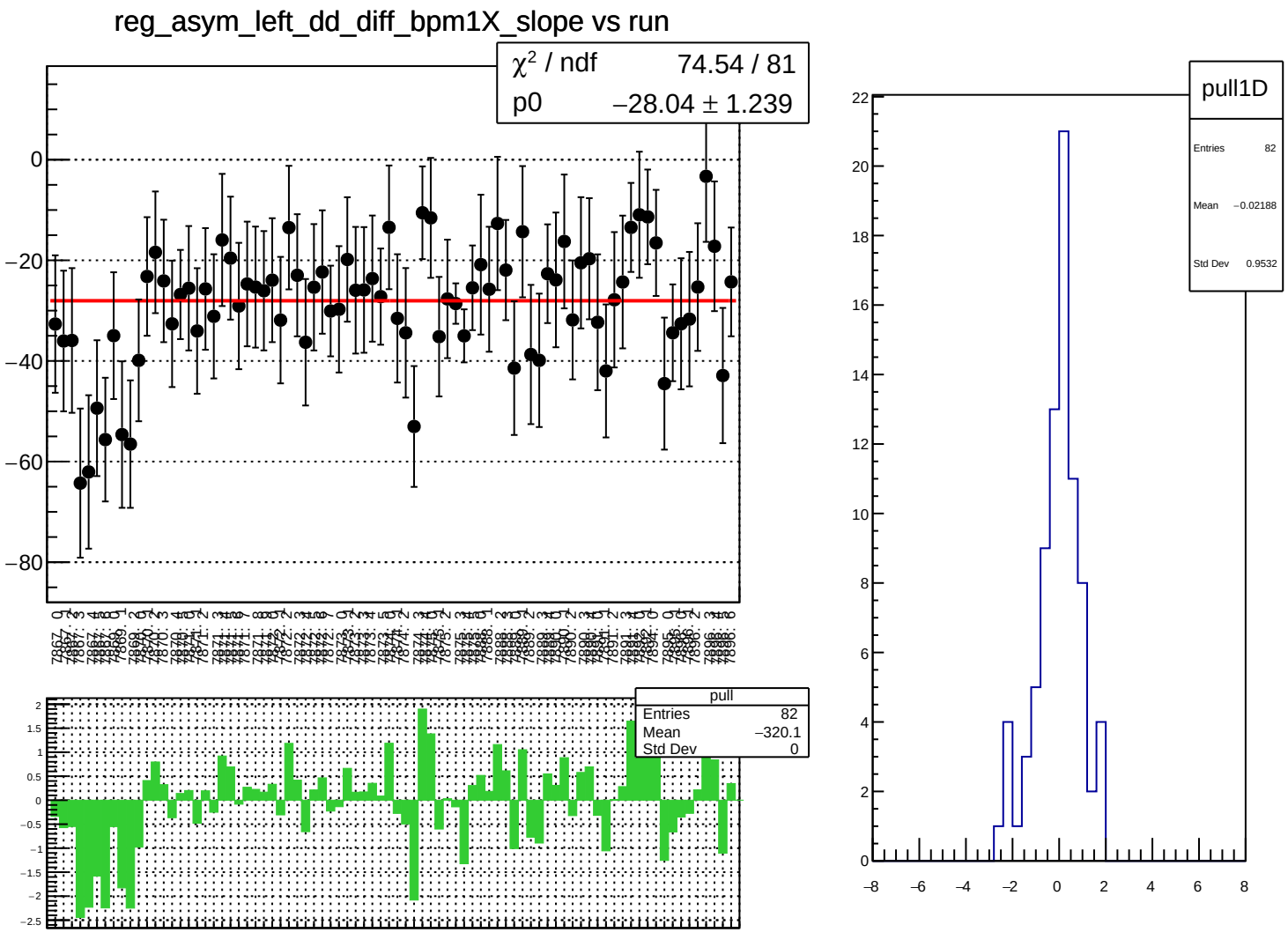

pull1D
Entries 82
Mean −0.0004624
Std Dev 0.9852

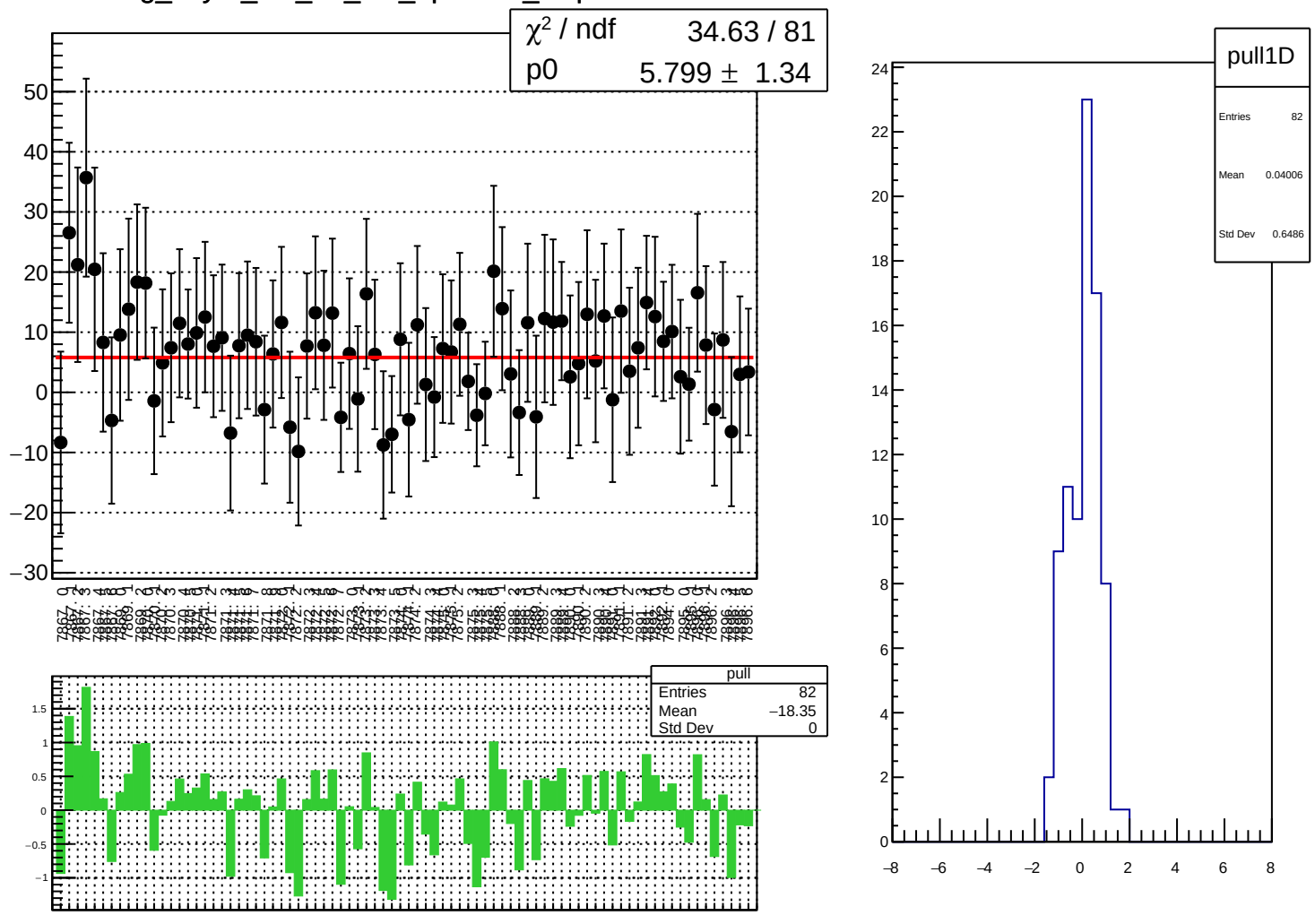

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.71 / 81
p0 8.452 ± 1.544
pull
Entries 82
Mean 6.972
Std Dev 49.41

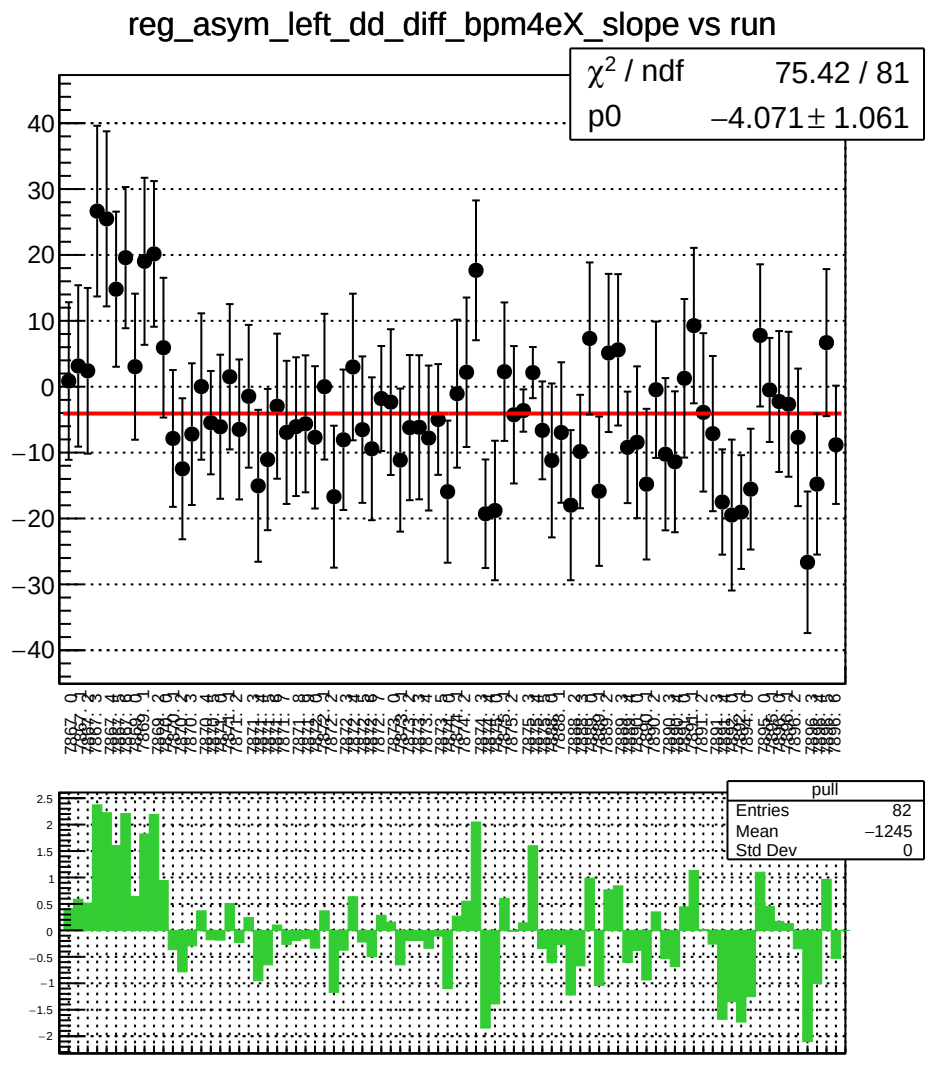

pull1D
Entries 82
Mean −0.02559
Std Dev 0.6954

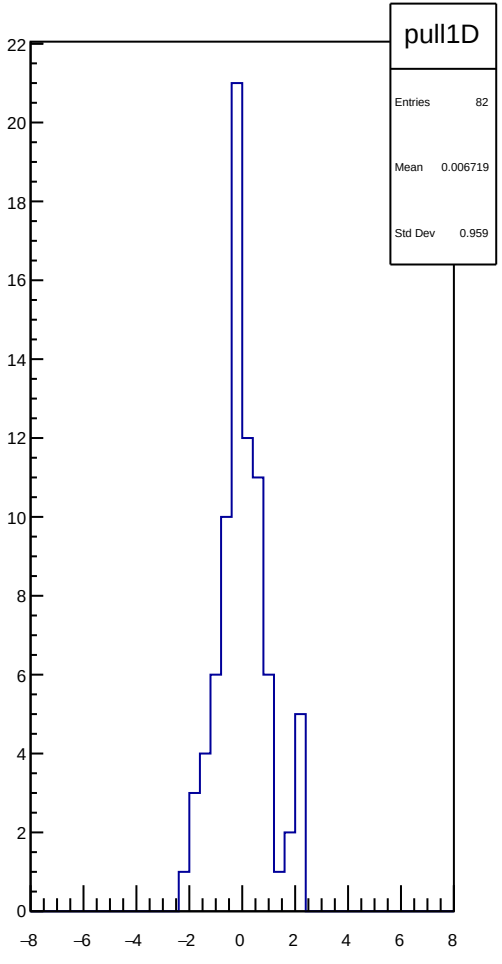

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 862.3 / 81
p0 −20.79 ± 0.04805
pull
Entries 82
Mean −110.6
Std Dev 0

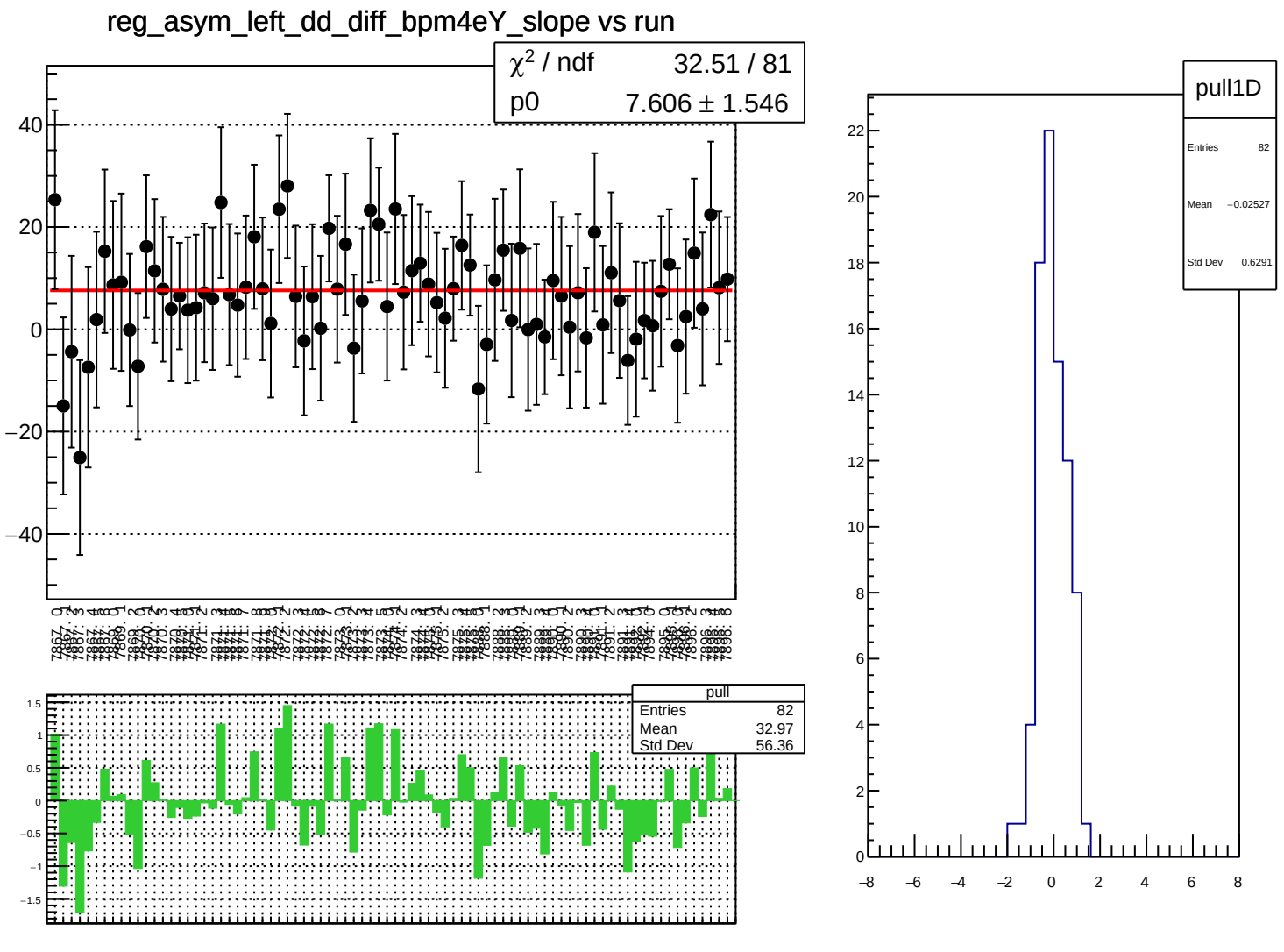

pull1D
Entries 82
Mean −0.2376
Std Dev 2.482

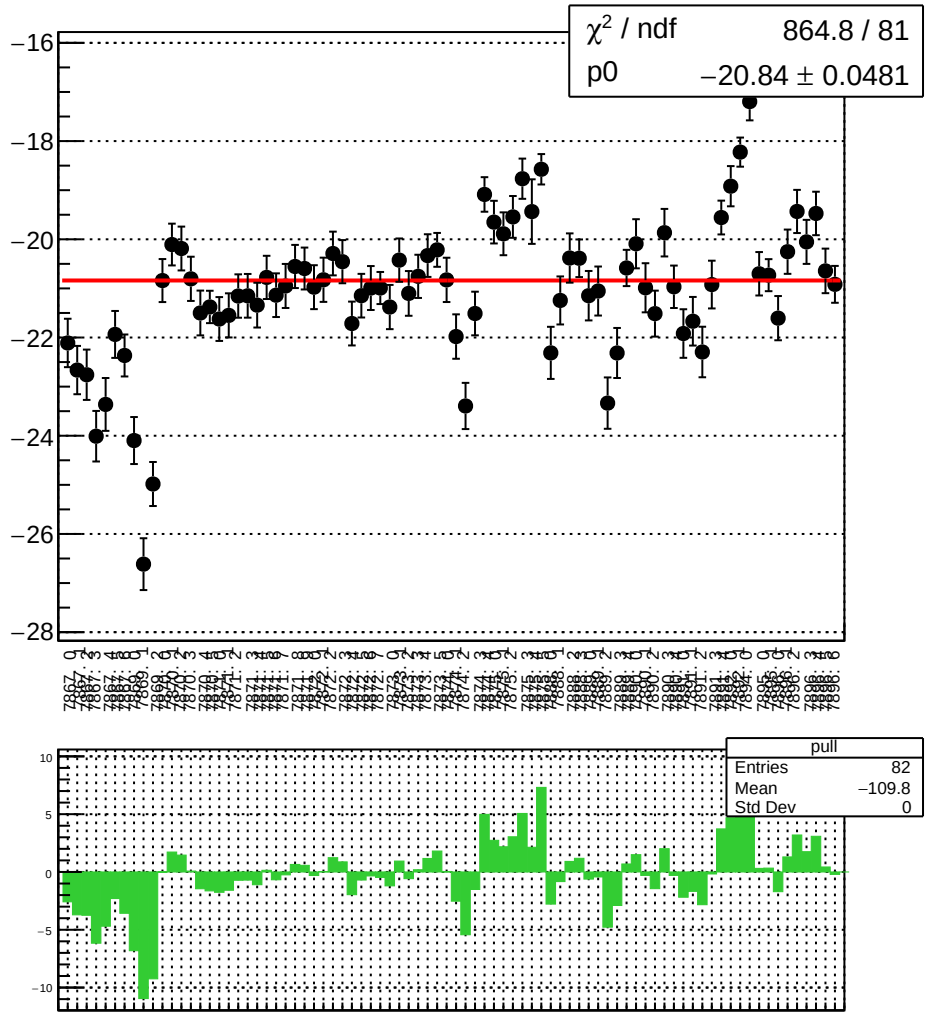

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 74.54 / 81
p0 −28.04 ± 1.239
pull
Entries 82
Mean −320.1
Std Dev 0
pull1D
Entries 82
Mean −0.02188
Std Dev 0.9532

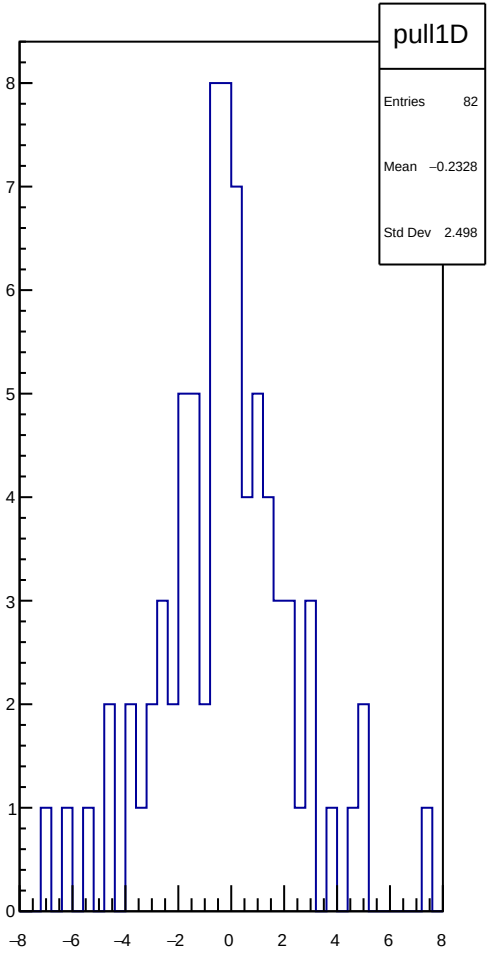

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.63 / 81
p0 5.799 ± 1.34
pull
Entries 82
Mean −18.35
Std Dev 0
pull1D
Entries 82
Mean 0.04006
Std Dev 0.6486

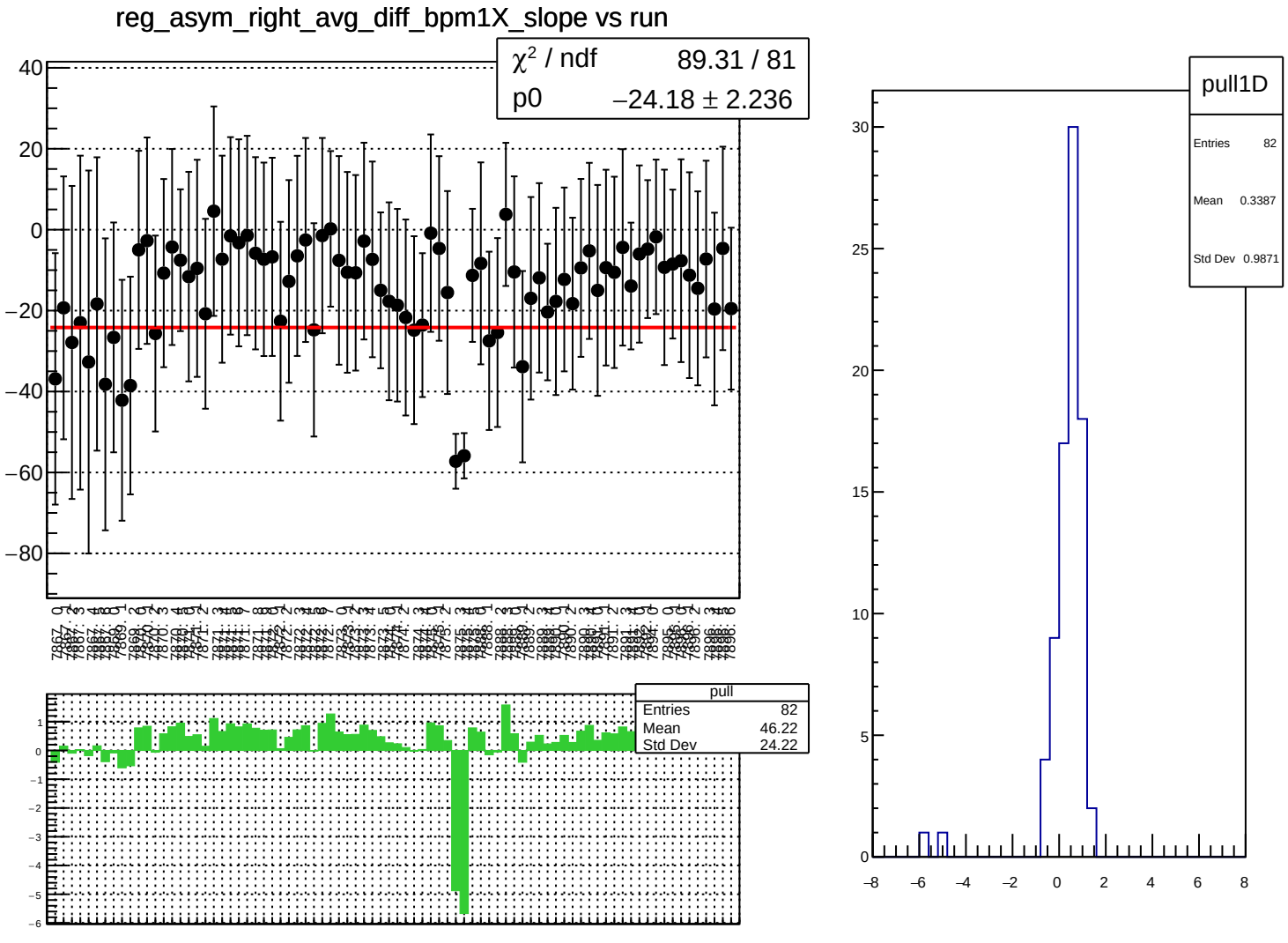

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.42 / 81
p0 −4.071 ± 1.061
pull
Entries 82
Mean −1245
Std Dev 0

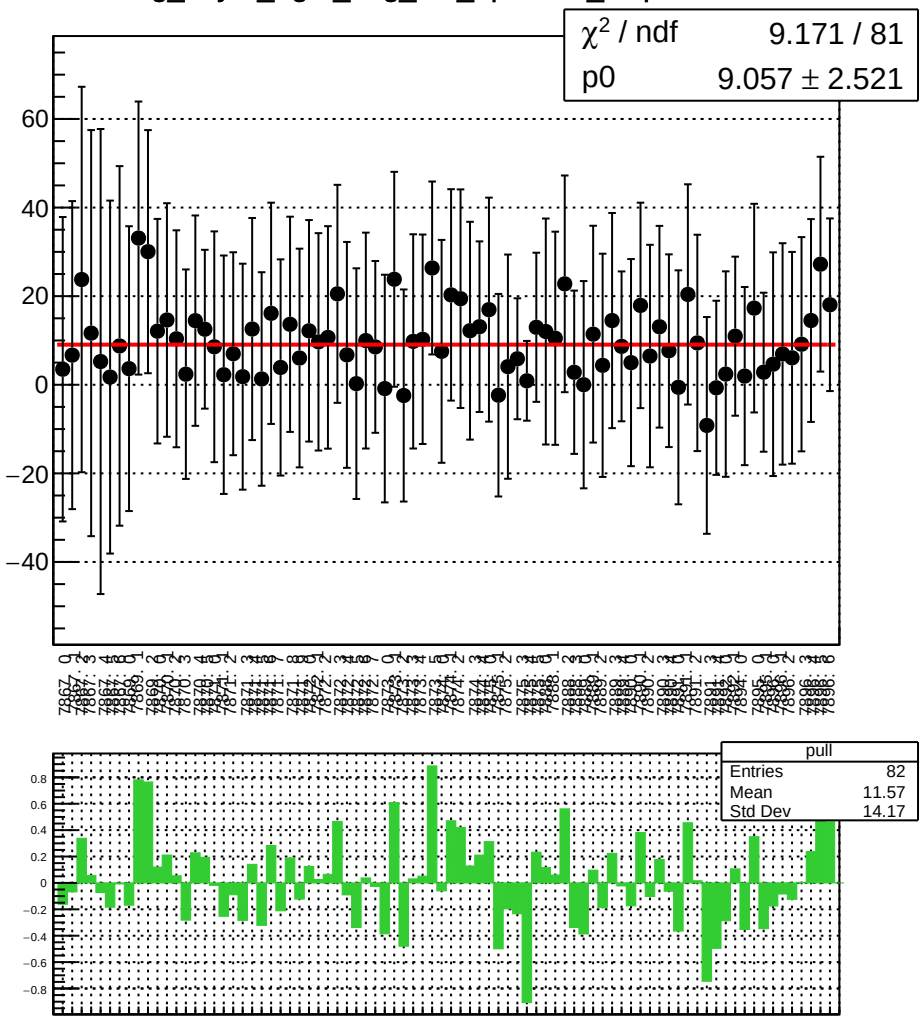

pull1D
Entries 82
Mean 0.006719
Std Dev 0.959

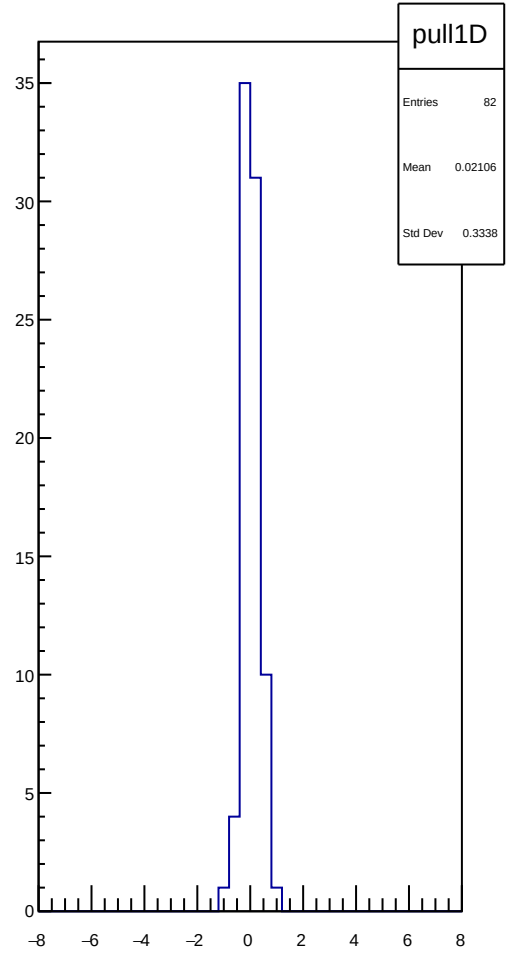

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.51 / 81
p0 7.606 ± 1.546
pull
Entries 82
Mean 32.97
Std Dev 56.36
pull1D
Entries 82
Mean −0.02527
Std Dev 0.6291

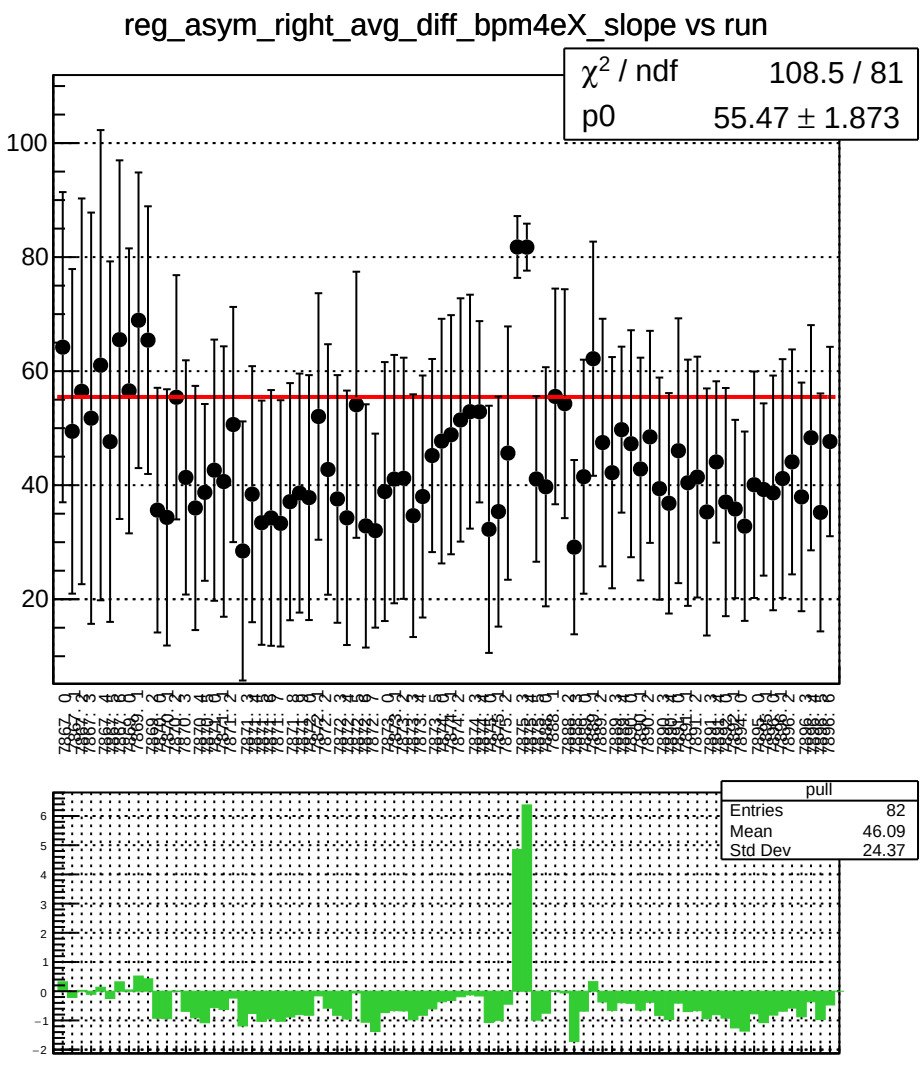

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 864.8 / 81
p0 −20.84 ± 0.0481
pull
Entries 82
Mean −109.8
Std Dev 0

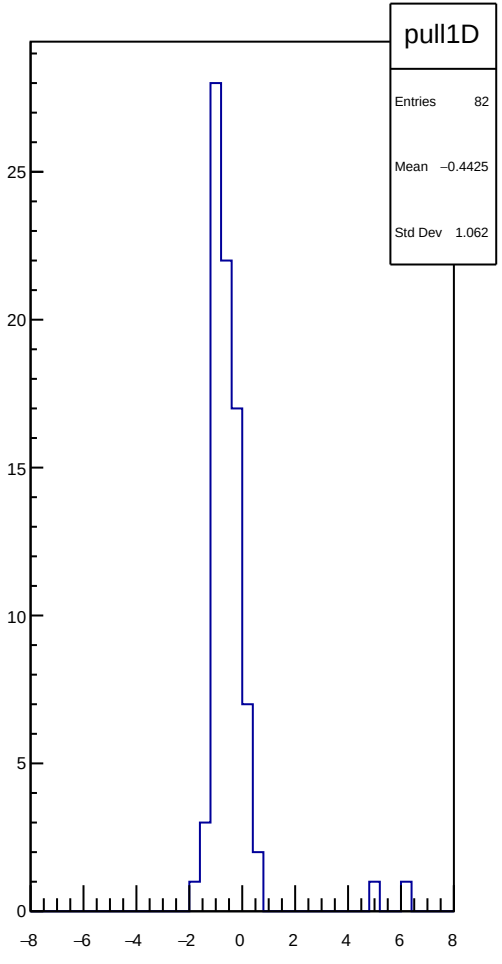

pull1D
Entries 82
Mean −0.2328
Std Dev 2.498

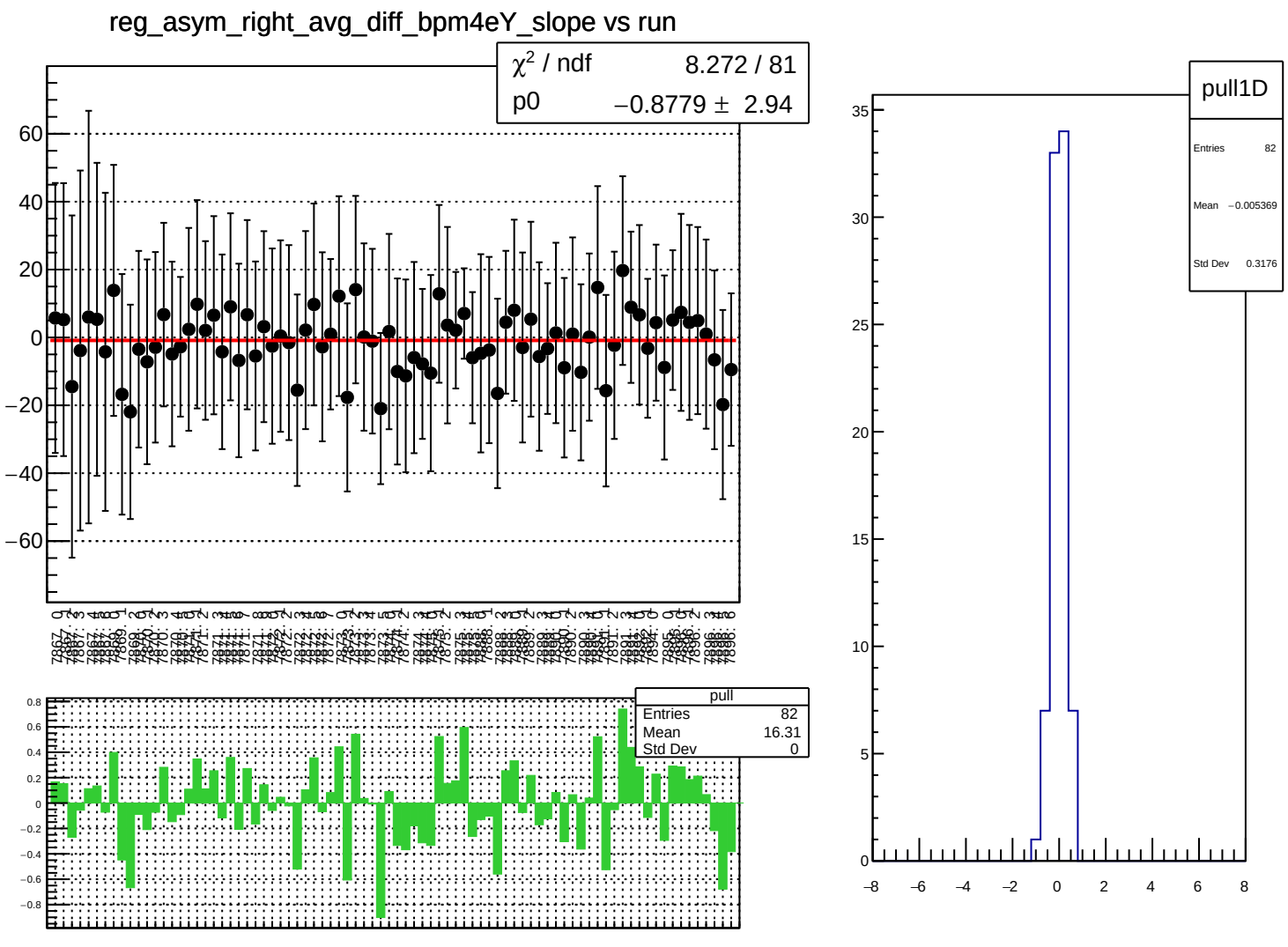

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 89.31 / 81
p0 −24.18 ± 2.236
pull
Entries 82
Mean 46.22
Std Dev 24.22
pull1D
Entries 82
Mean 0.3387
Std Dev 0.9871

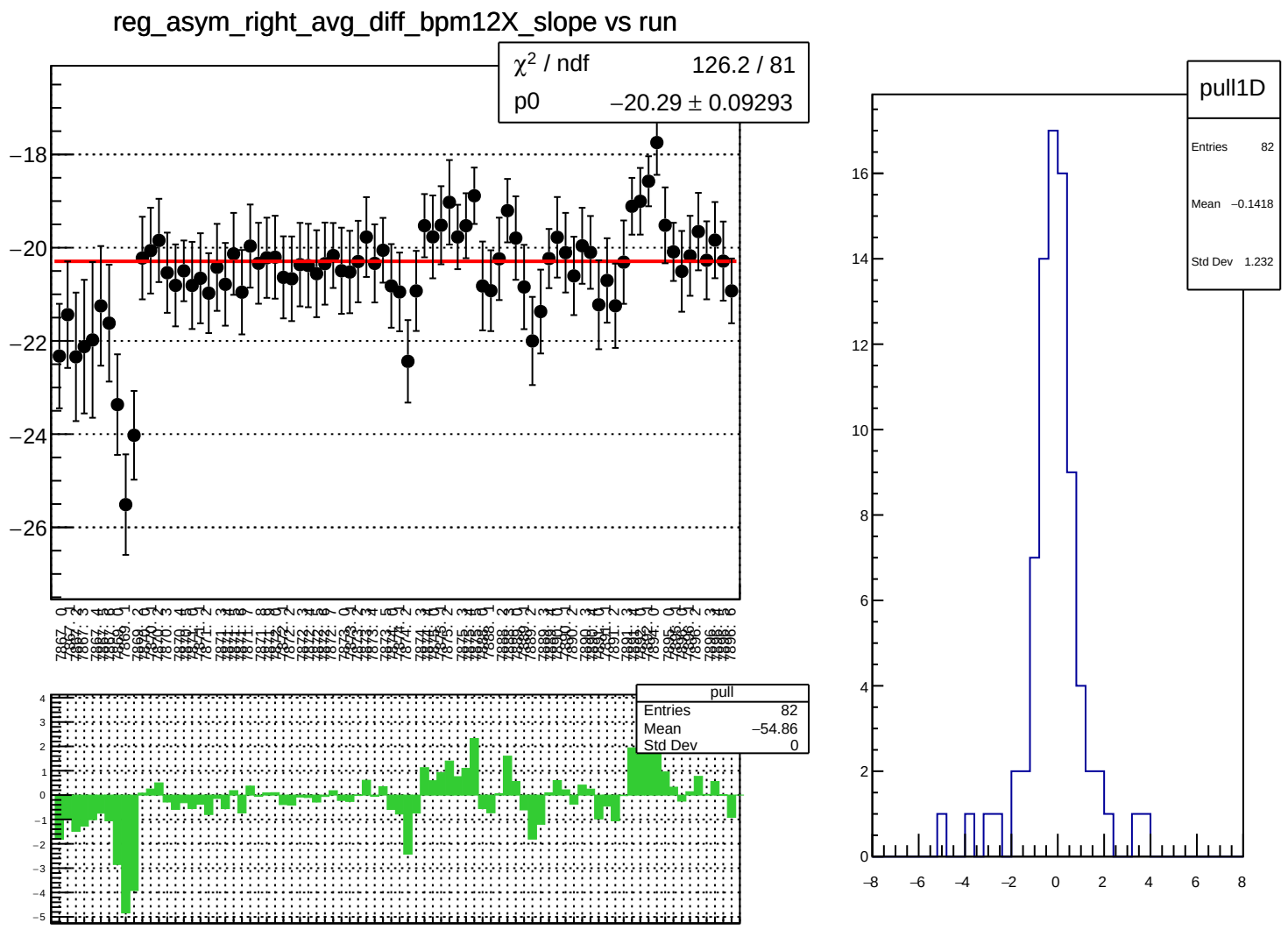

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.171 / 81
p0 9.057 ± 2.521
pull
Entries 82
Mean 11.57
Std Dev 14.17

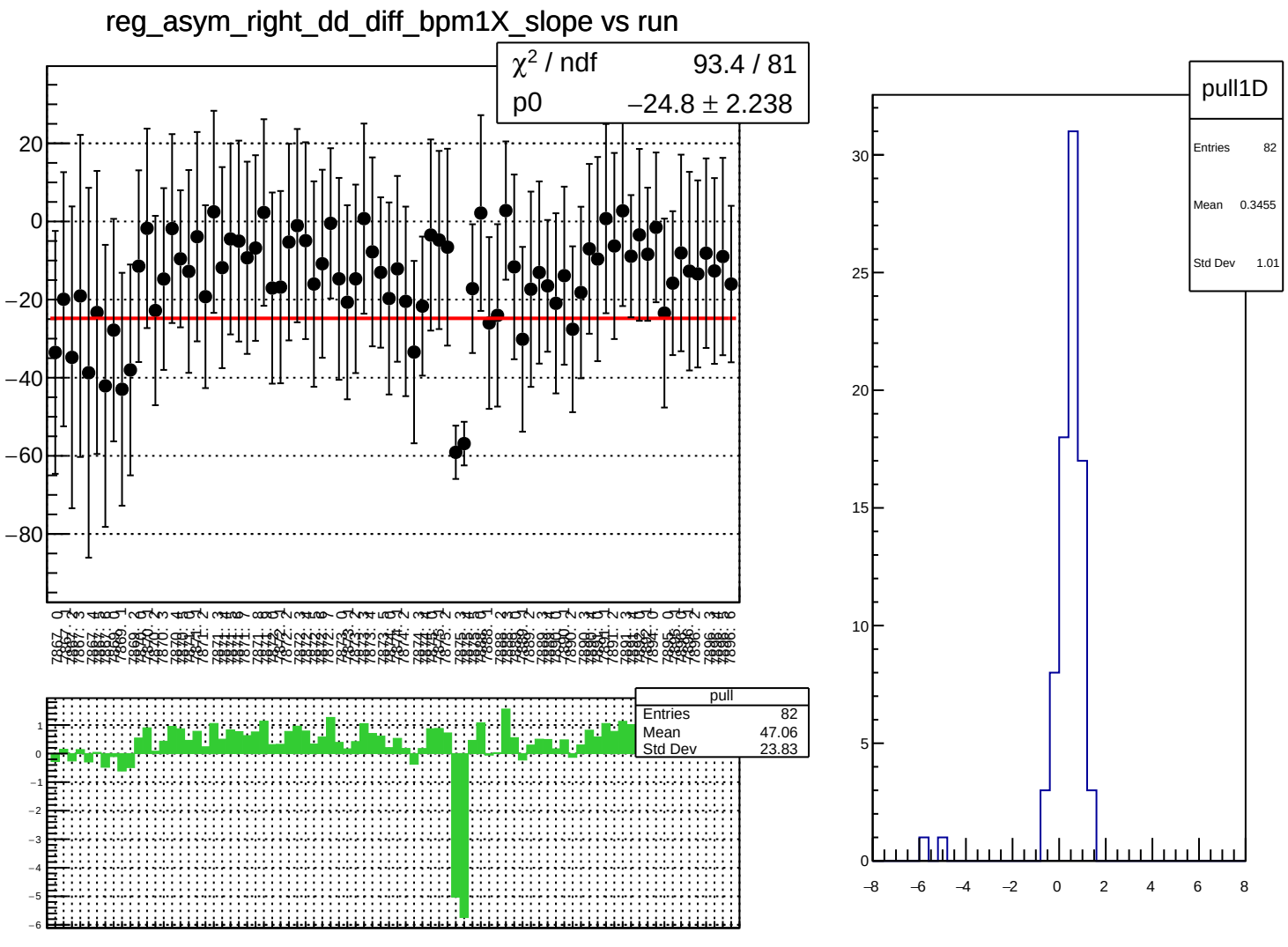

pull1D
Entries 82
Mean 0.02106
Std Dev 0.3338

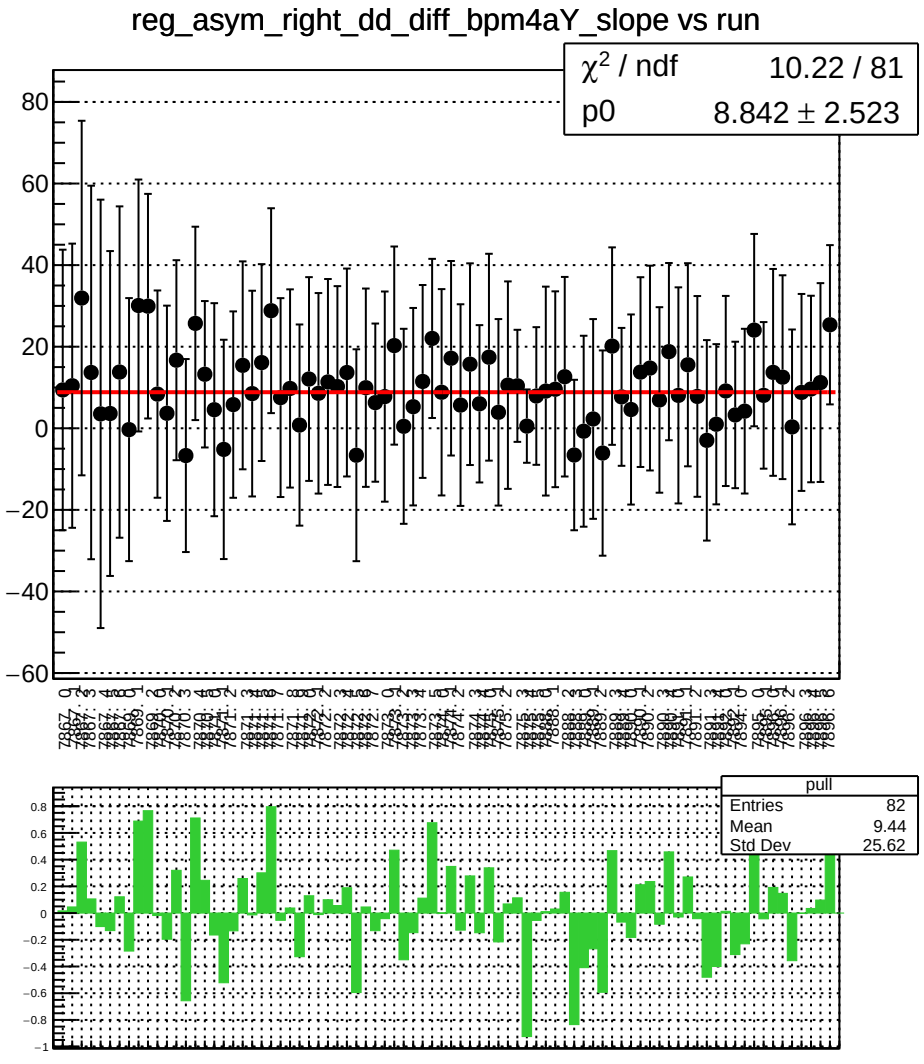

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.5 / 81
p0 55.47 ± 1.873
pull
Entries 82
Mean 46.09
Std Dev 24.37

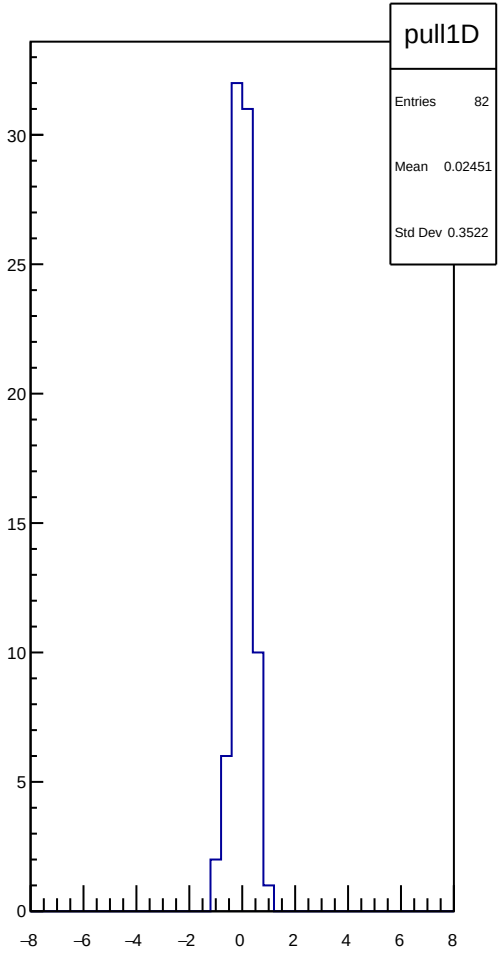

pull1D
Entries 82
Mean −0.4425
Std Dev 1.062

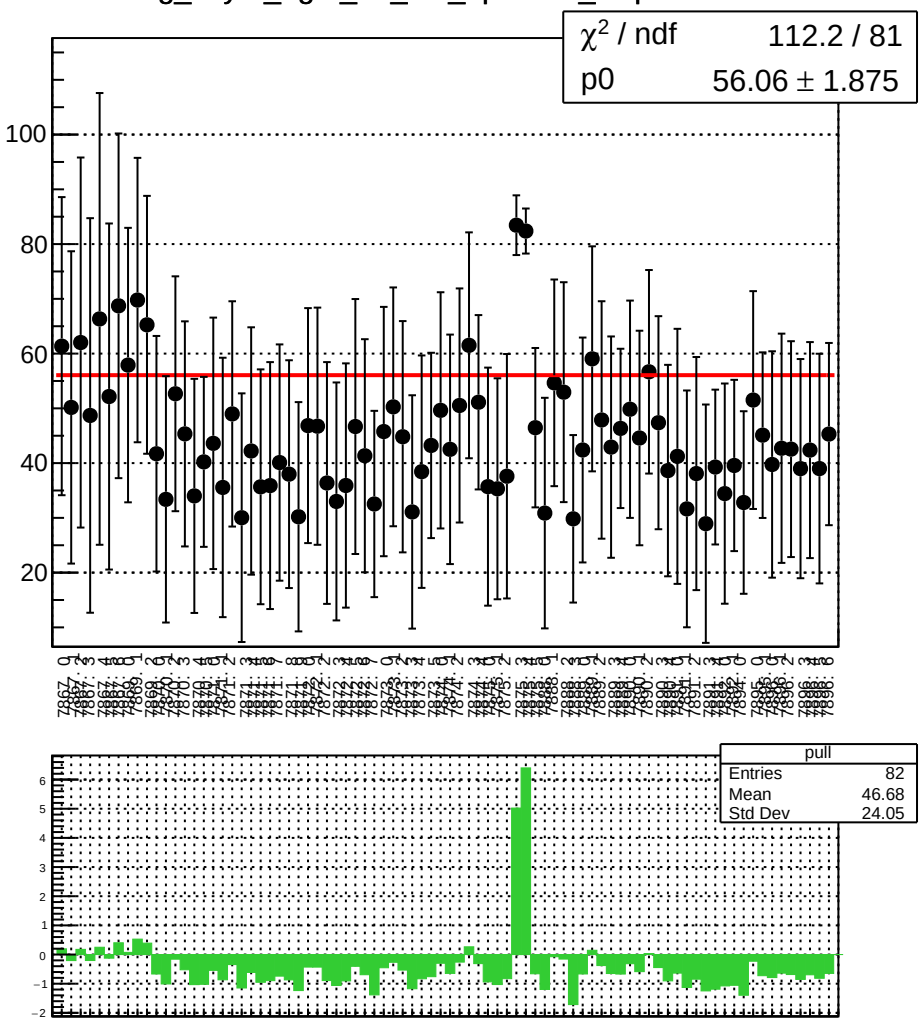

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.272 / 81
p0 −0.8779 ± 2.94
pull
Entries 82
Mean 16.31
Std Dev 0
pull1D
Entries 82
Mean −0.005369
Std Dev 0.3176

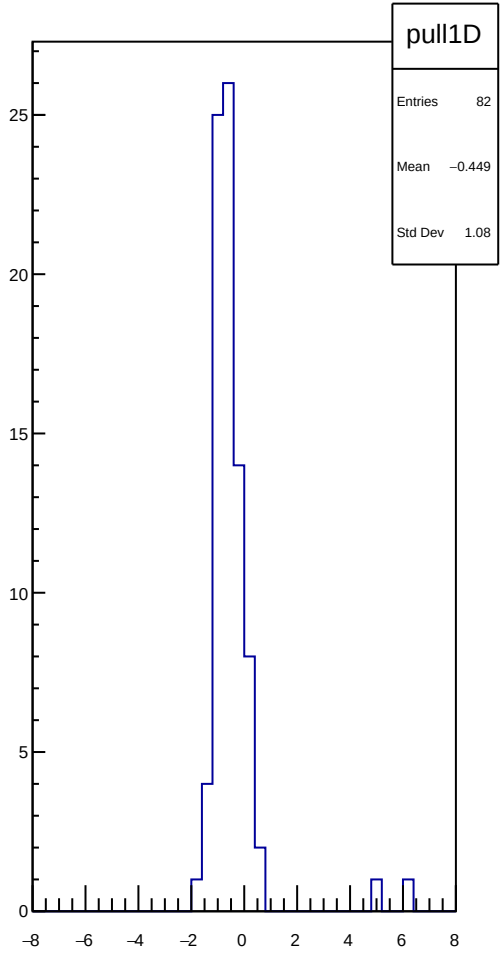

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 126.2 / 81
p0 −20.29 ± 0.09293
−18
−20
−22
−24
−26
pull
Entries 82
Mean −54.86
Std Dev 0
pull1D
Entries 82
Mean −0.1418
Std Dev 1.232

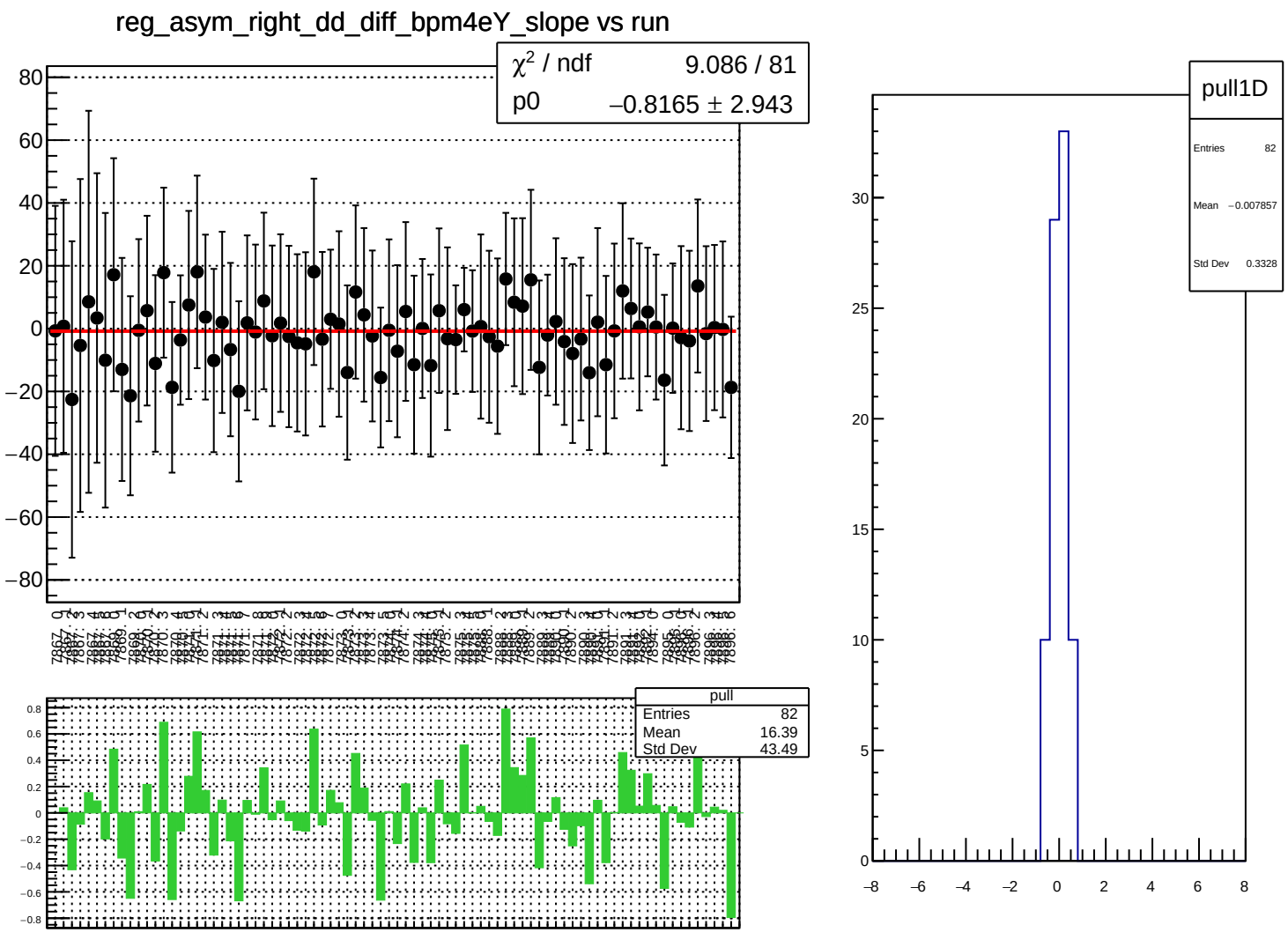

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 93.4 / 81
p0 −24.8 ± 2.238
pull
Entries 82
Mean 47.06
Std Dev 23.83
pull1D
Entries 82
Mean 0.3455
Std Dev 1.01

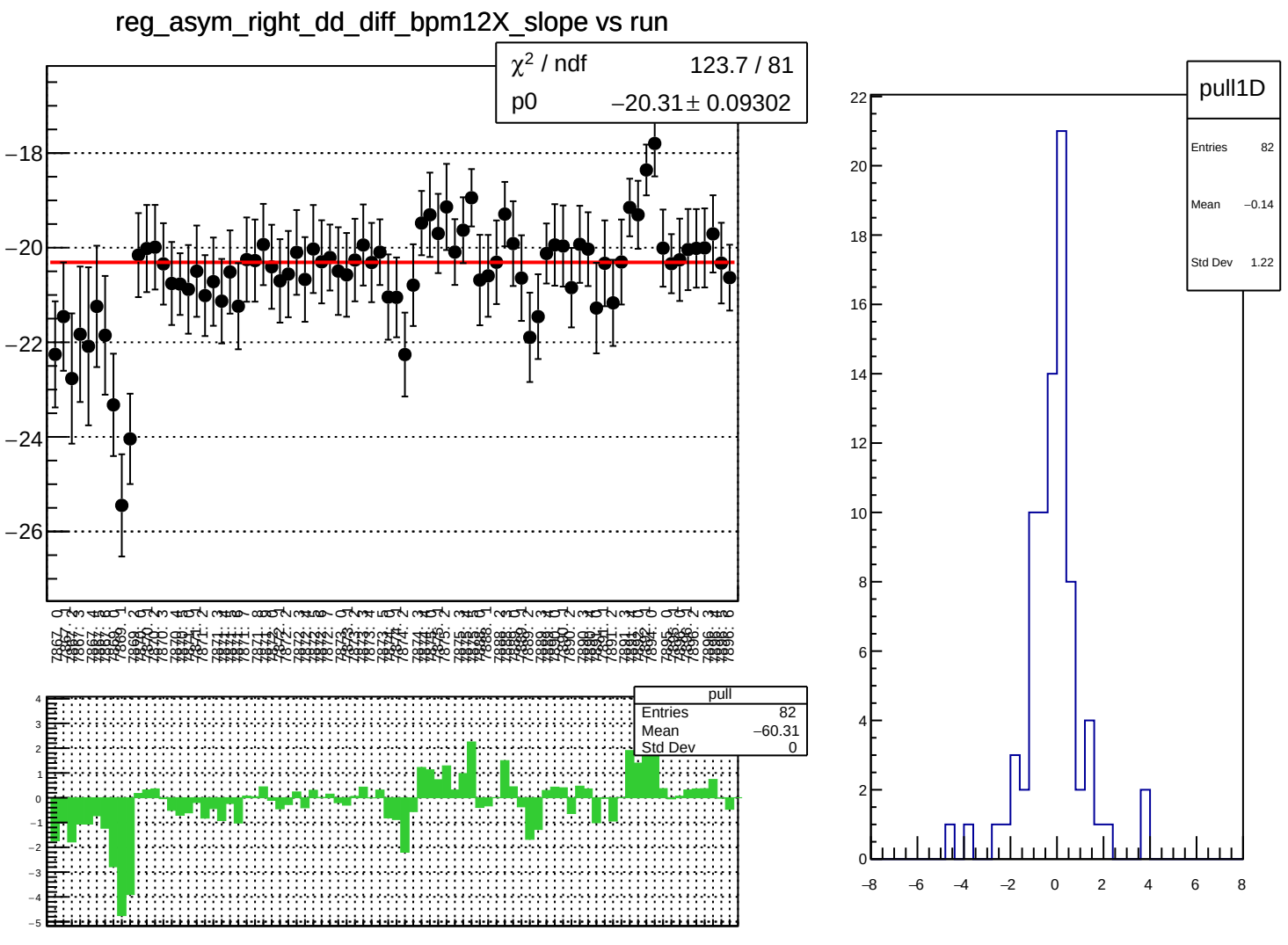

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.22 / 81
p0 8.842 ± 2.523
pull
Entries 82
Mean 9.44
Std Dev 25.62

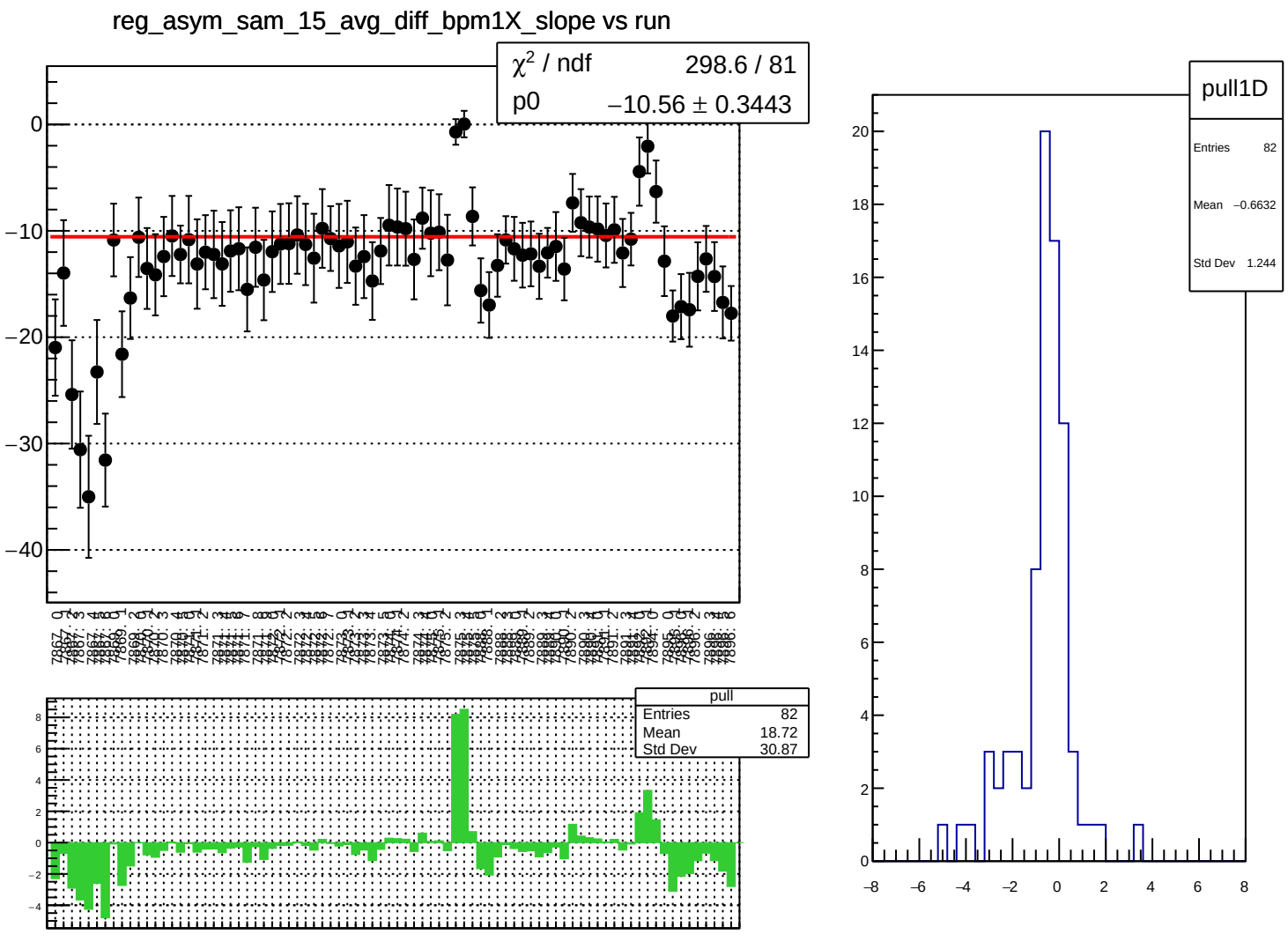

pull1D
Entries 82
Mean 0.02451
Std Dev 0.3522

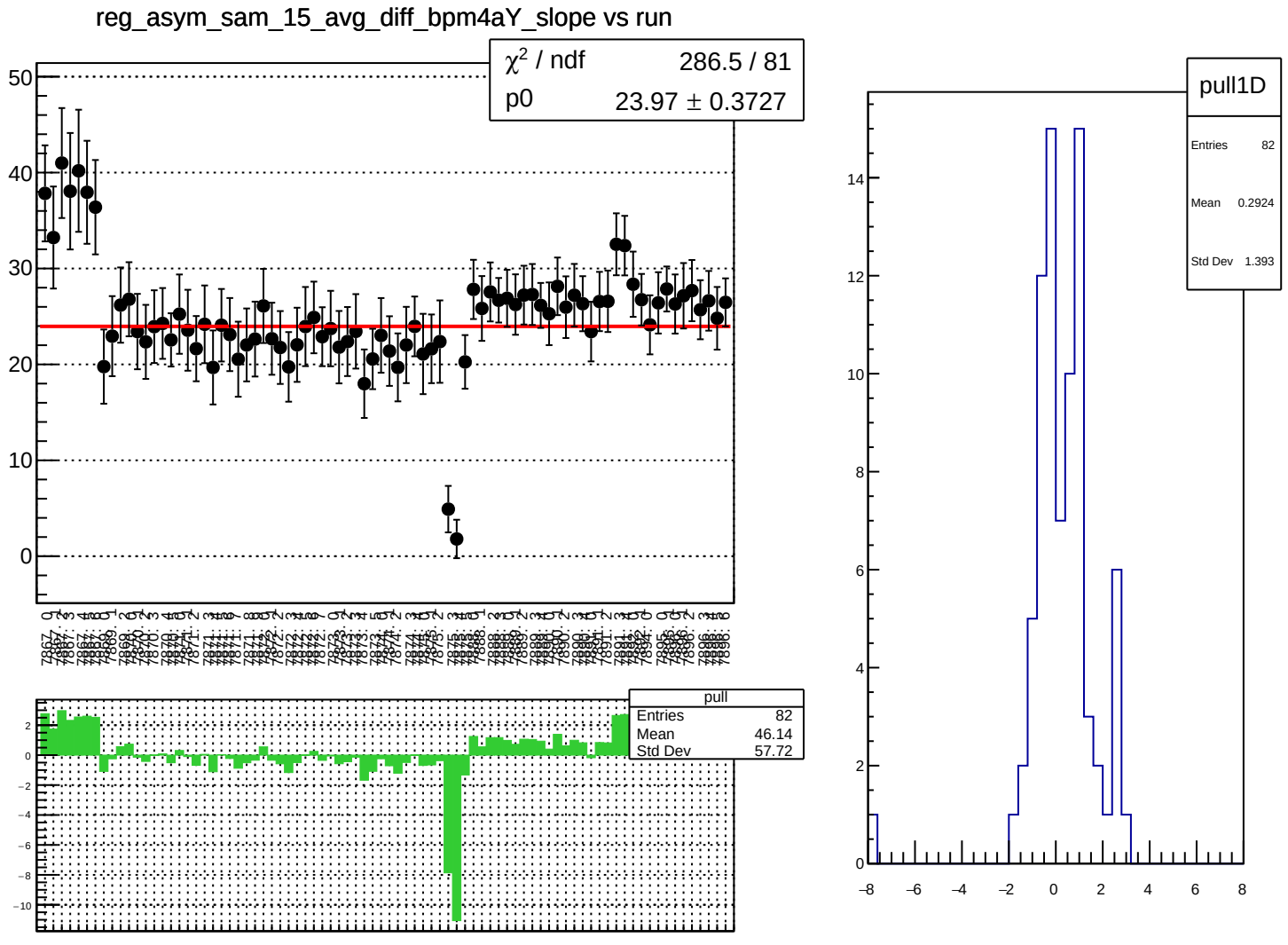

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 112.2 / 81
p0 56.06 ± 1.875
pull
Entries 82
Mean 46.68
Std Dev 24.05

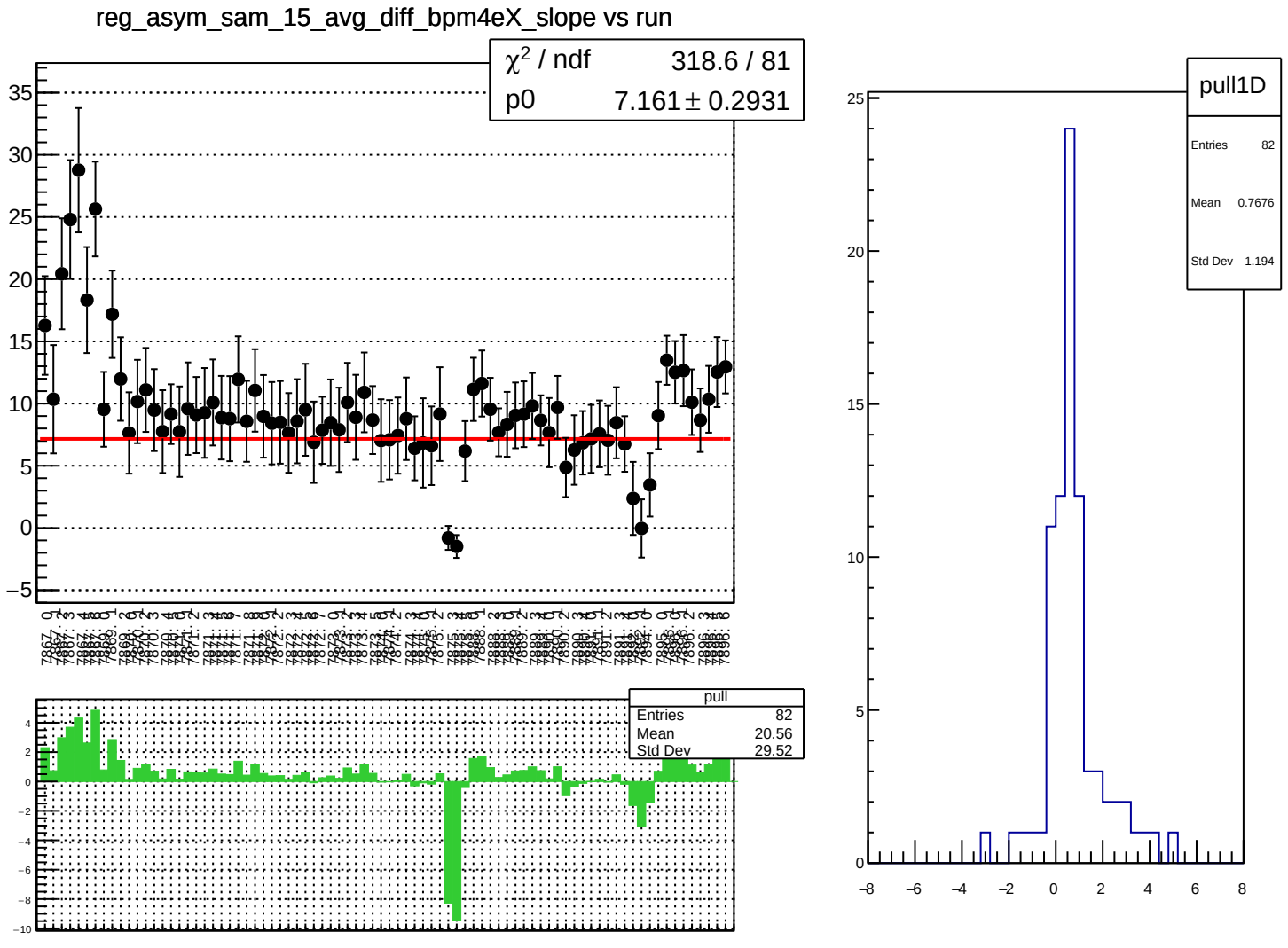

pull1D
Entries 82
Mean −0.449
Std Dev 1.08

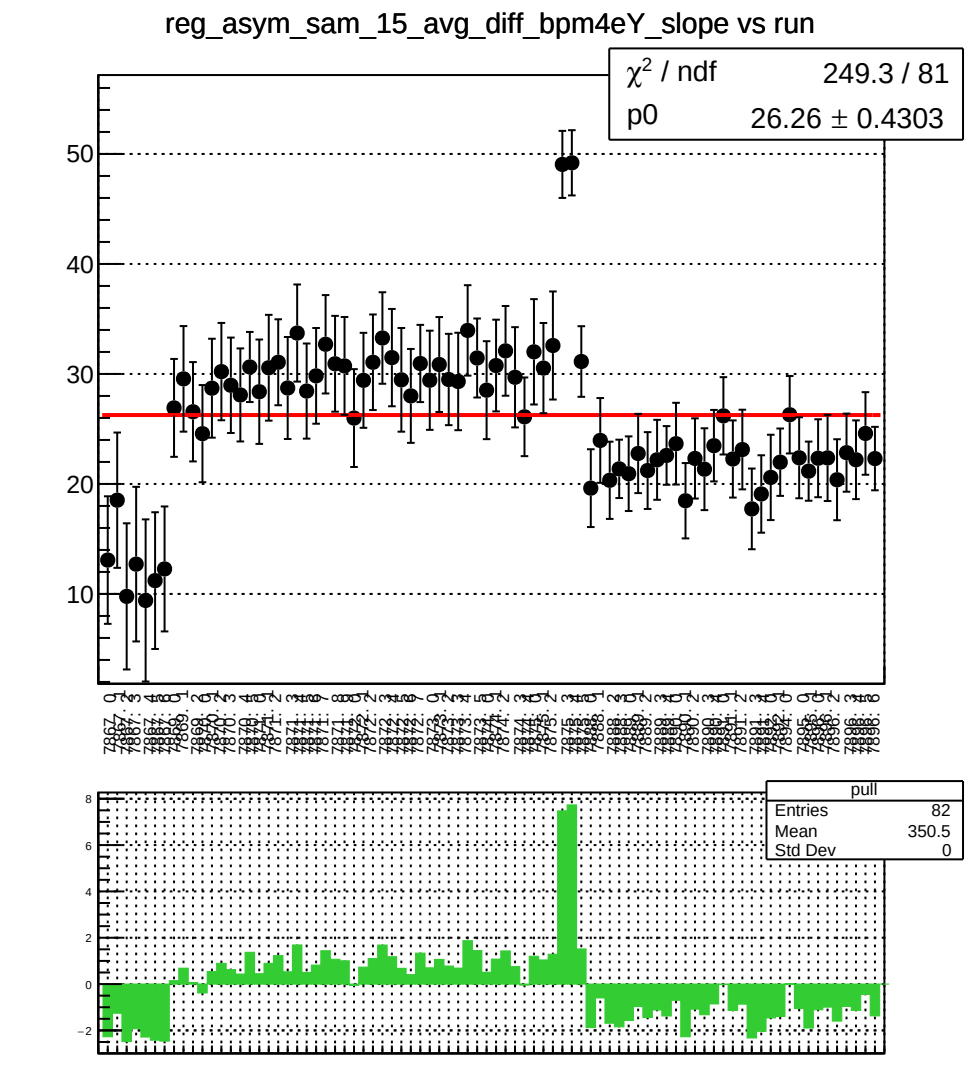

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.086 / 81
p0 −0.8165 ± 2.943
pull
Entries 82
Mean 16.39
Std Dev 43.49
pull1D
Entries 82
Mean −0.007857
Std Dev 0.3328

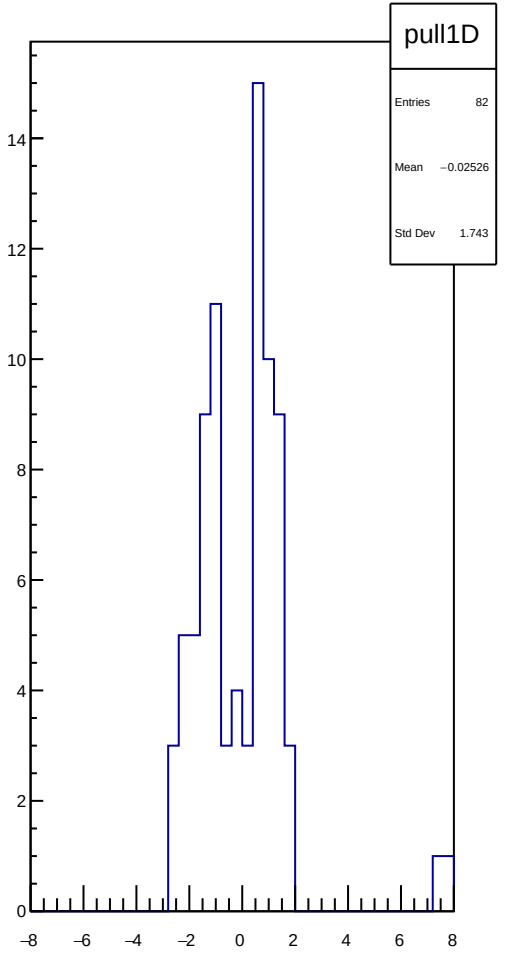

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 123.7 / 81
p0 −20.31 ± 0.09302
pull
Entries 82
Mean −60.31
Std Dev 0
pull1D
Entries 82
Mean −0.14
Std Dev 1.22

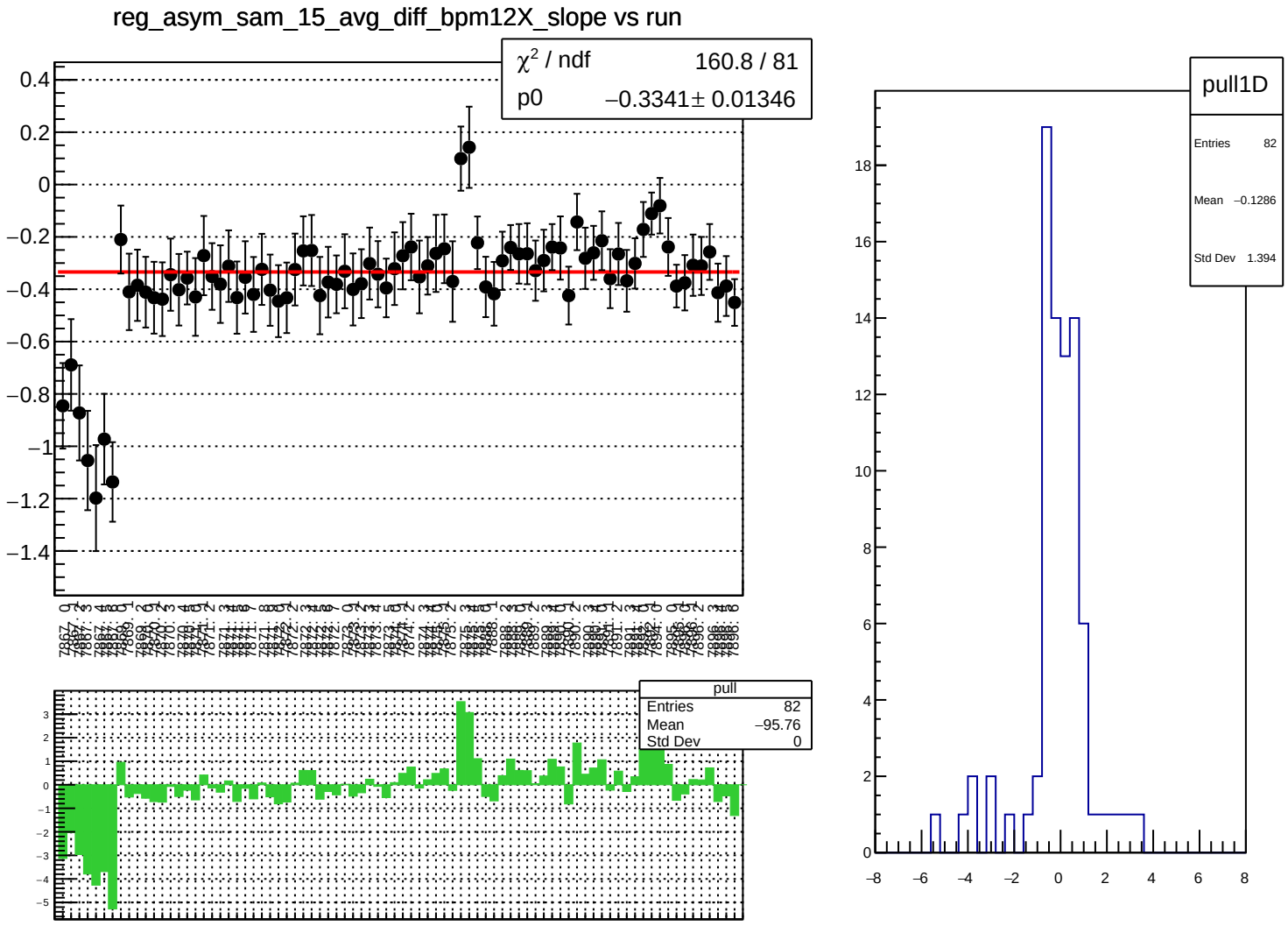

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 298.6 / 81
p0 −10.56 ± 0.3443
pull
Entries 82
Mean 18.72
Std Dev 30.87
pull1D
Entries 82
Mean −0.6632
Std Dev 1.244

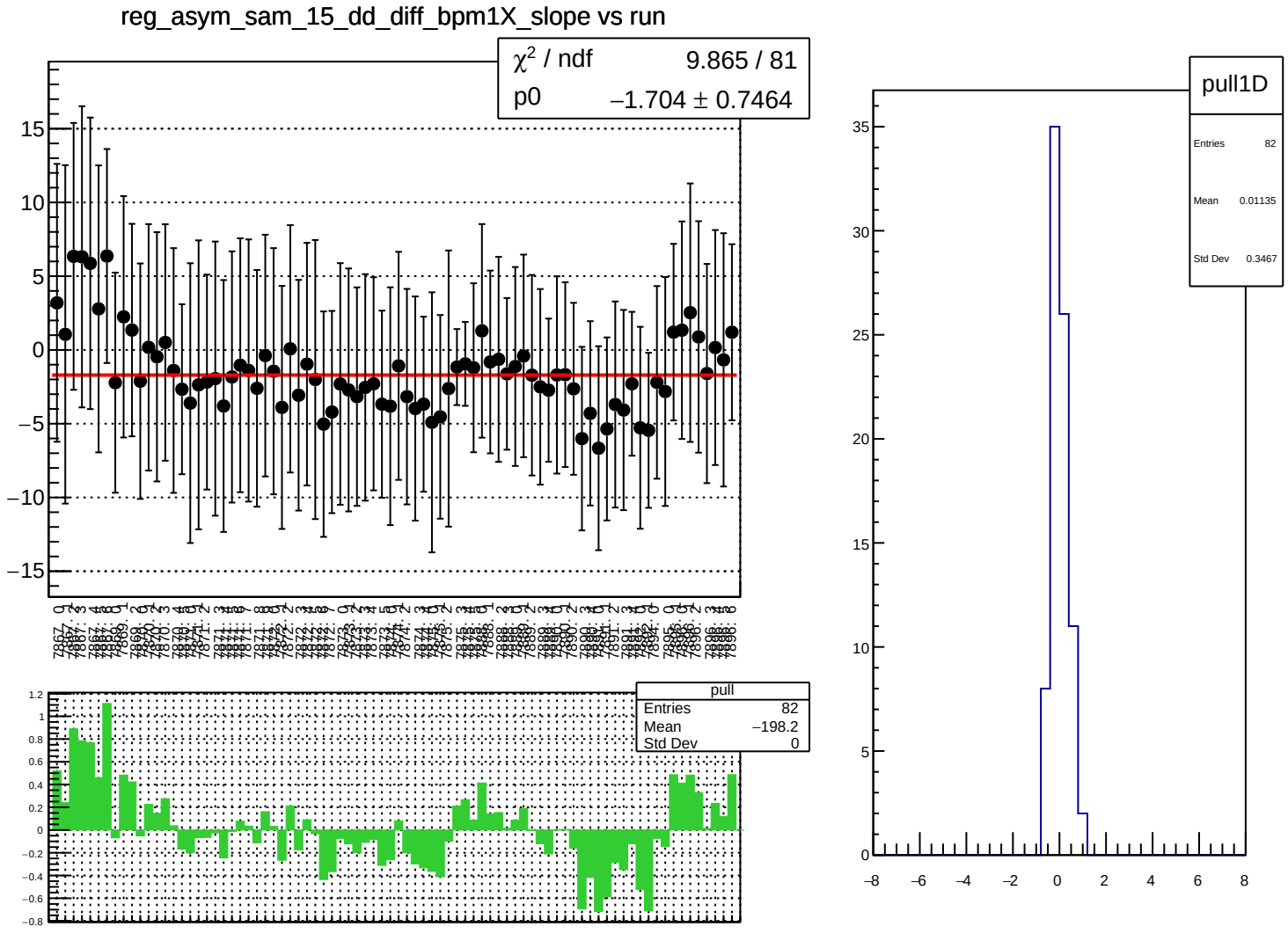

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 286.5 / 81
p0 23.97 ± 0.3727
pull
Entries 82
Mean 46.14
Std Dev 57.72
pull1D
Entries 82
Mean 0.2924
Std Dev 1.393

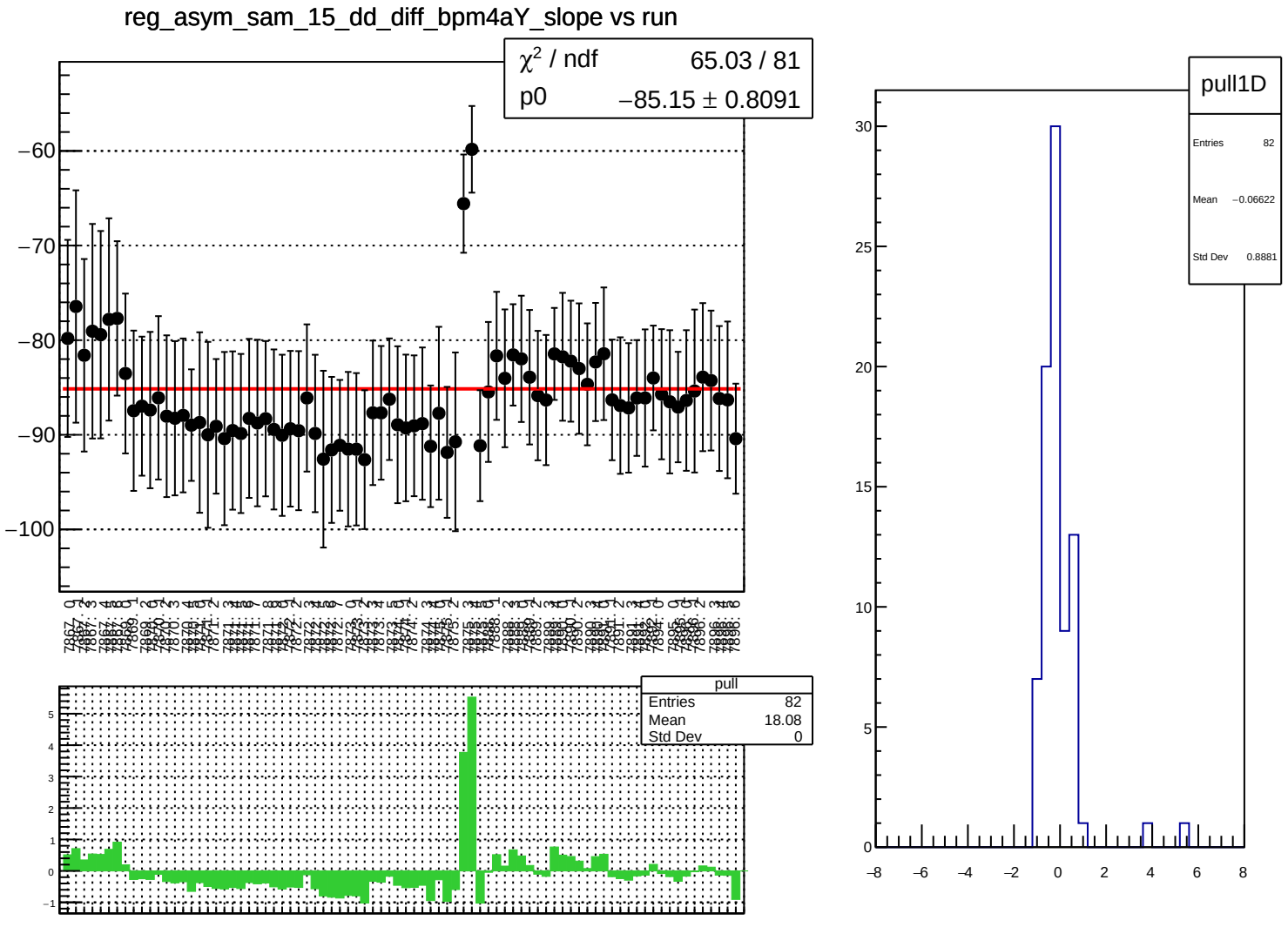

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 318.6 / 81
p0 7.161 ± 0.2931
pull
Entries 82
Mean 20.56
Std Dev 29.52
pull1D
Entries 82
Mean 0.7676
Std Dev 1.194

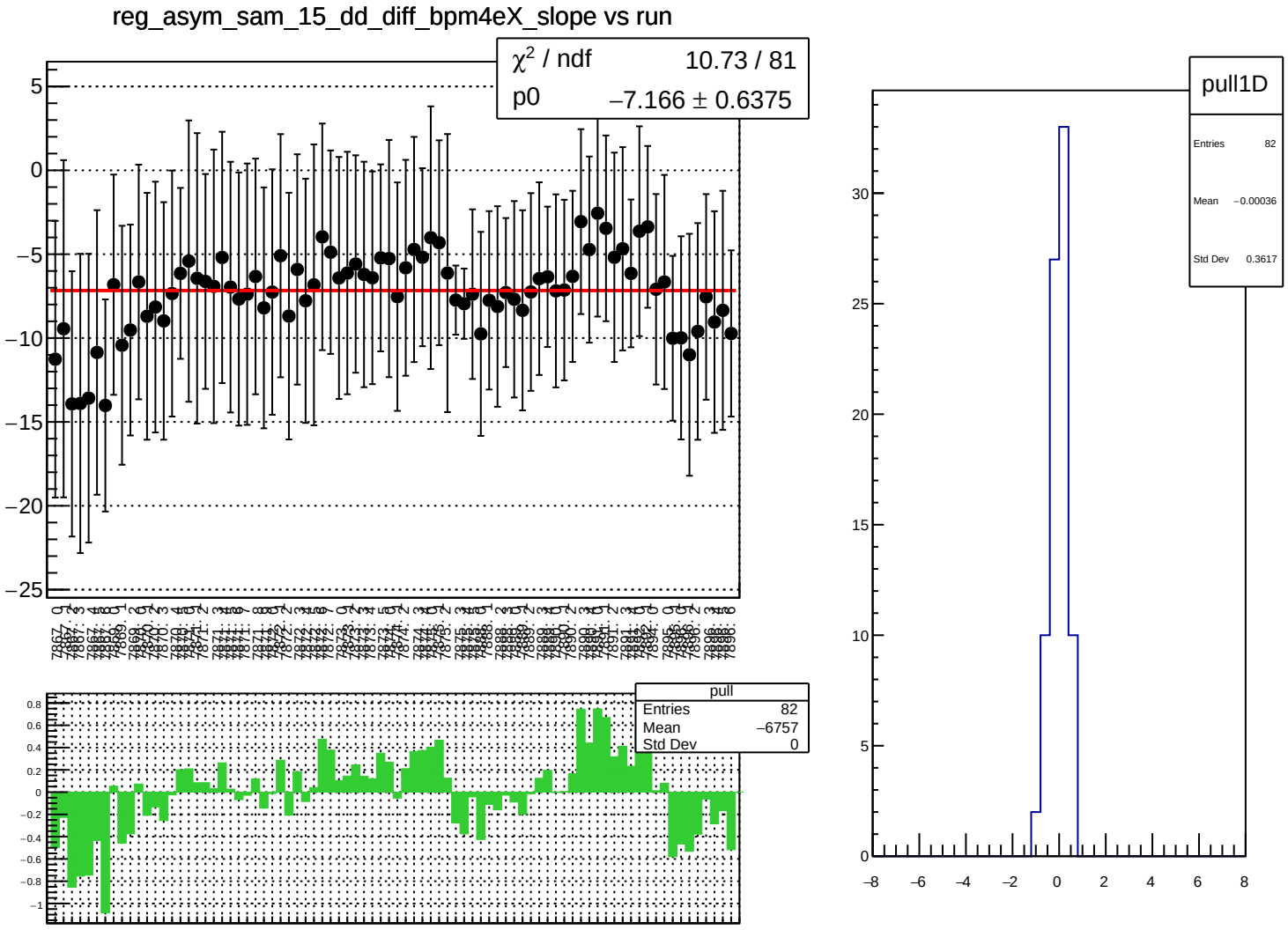

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 249.3 / 81
p0 26.26 ± 0.4303
pull
Entries 82
Mean 350.5
Std Dev 0

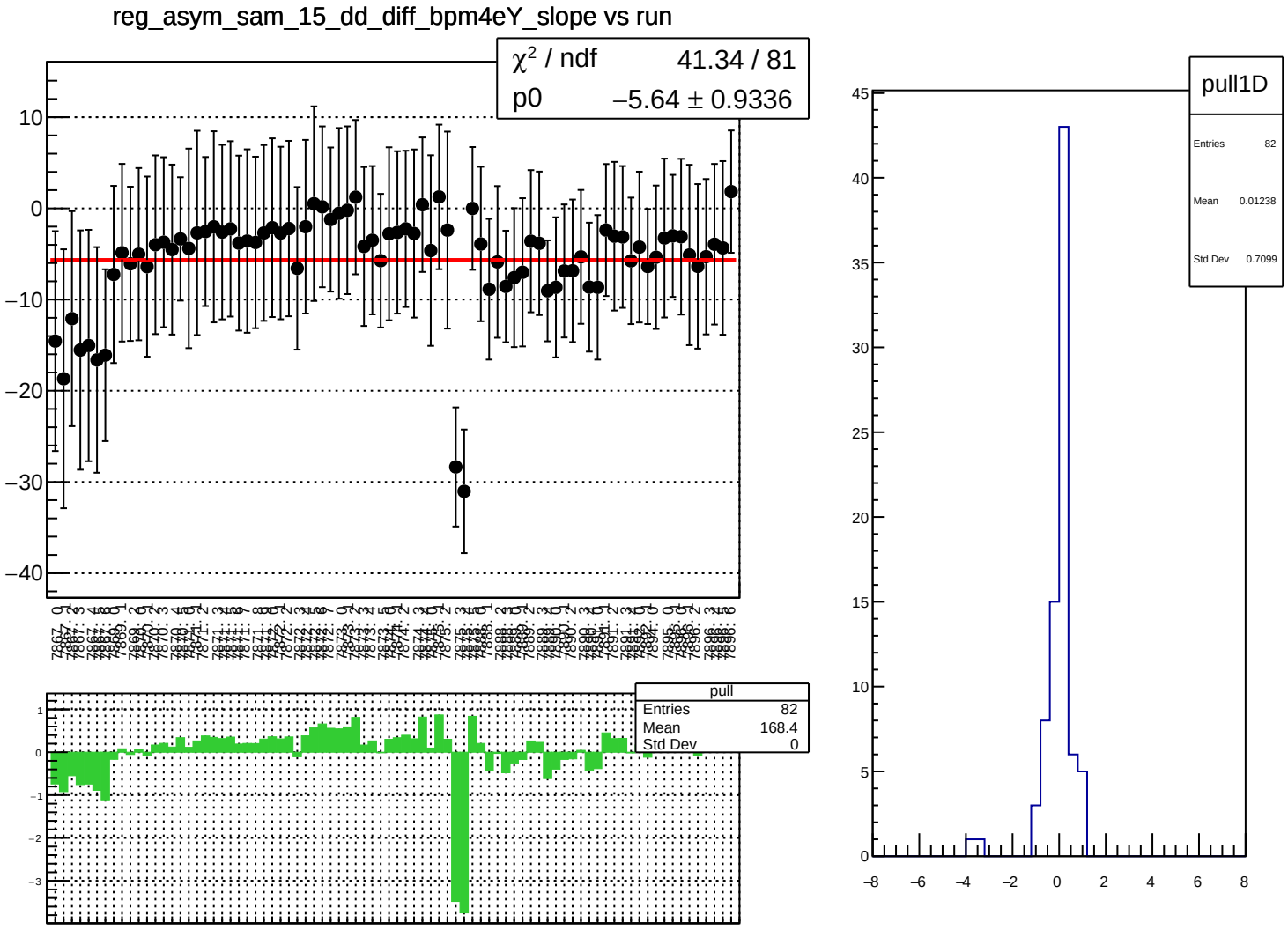

pull1D
Entries 82
Mean −0.02526
Std Dev 1.743

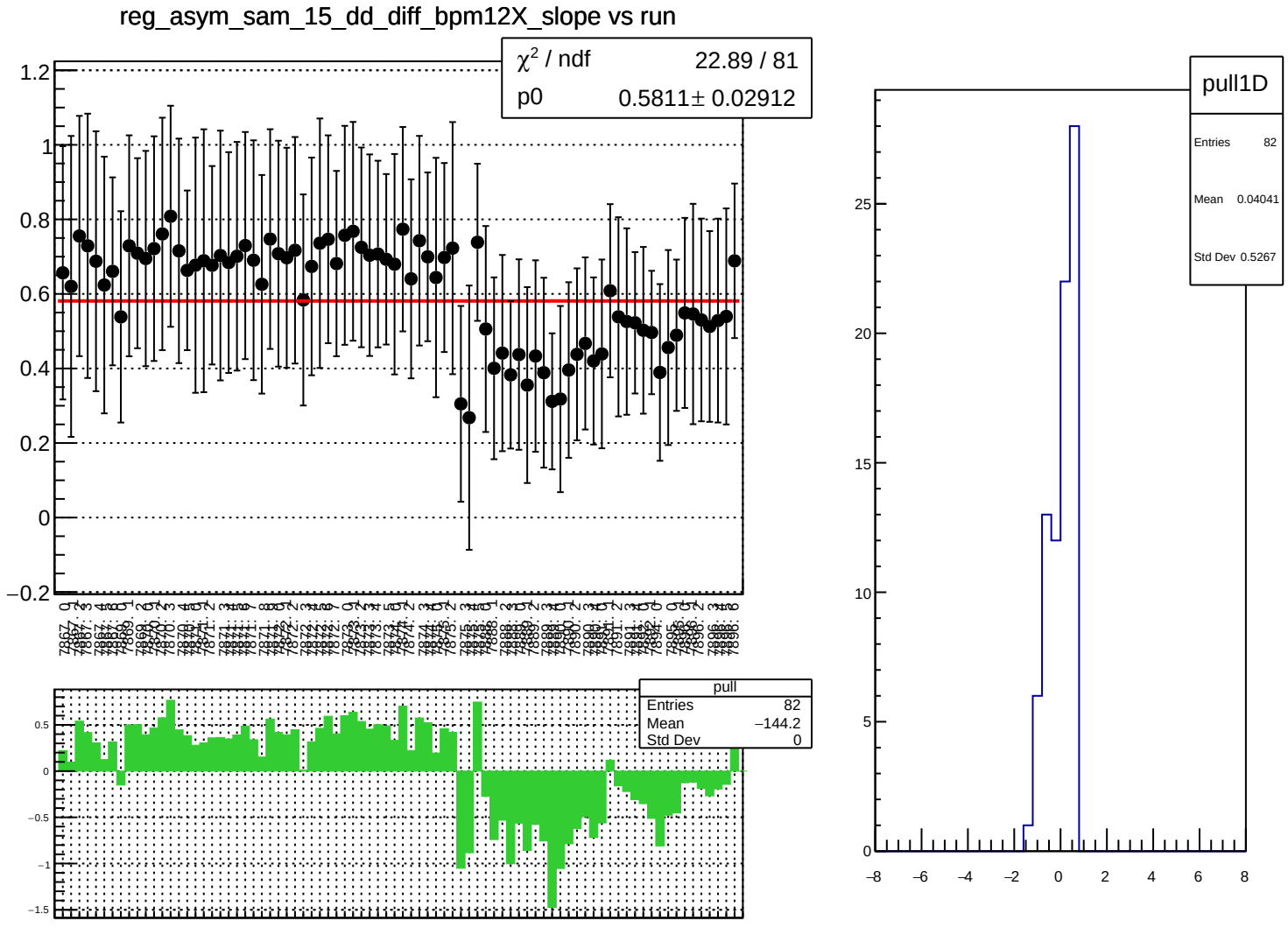

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 160.8 / 81
p0 −0.3341 ± 0.01346
pull
Entries 82
Mean −95.76
Std Dev 0
pull1D
Entries 82
Mean −0.1286
Std Dev 1.394

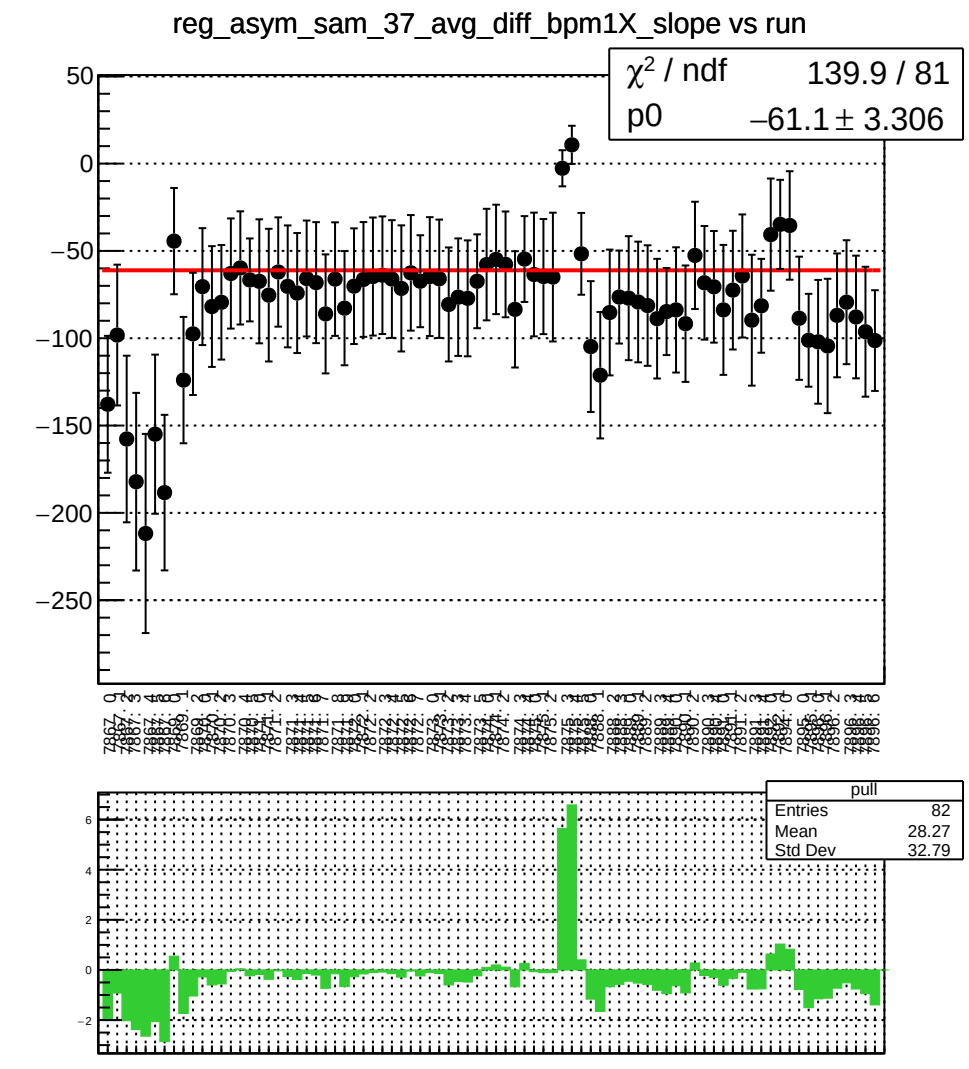

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 9.865 / 81
p0 −1.704 ± 0.7464
pull
Entries 82
Mean −198.2
Std Dev 0
pull1D
Entries 82
Mean 0.01135
Std Dev 0.3467

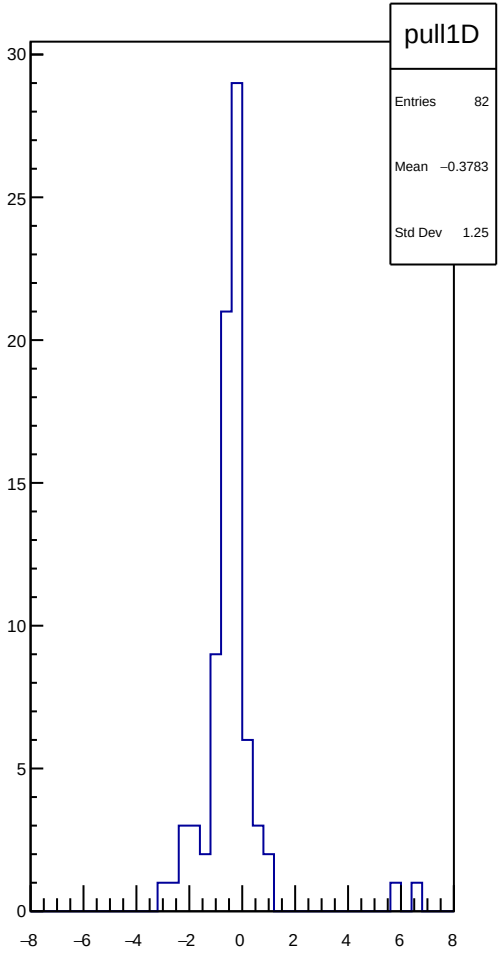

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.03 / 81
p0 −85.15 ± 0.8091
−60
−70
−80
−90
−100
pull
Entries 82
Mean 18.08
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 82
Mean −0.06622
Std Dev 0.8881
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

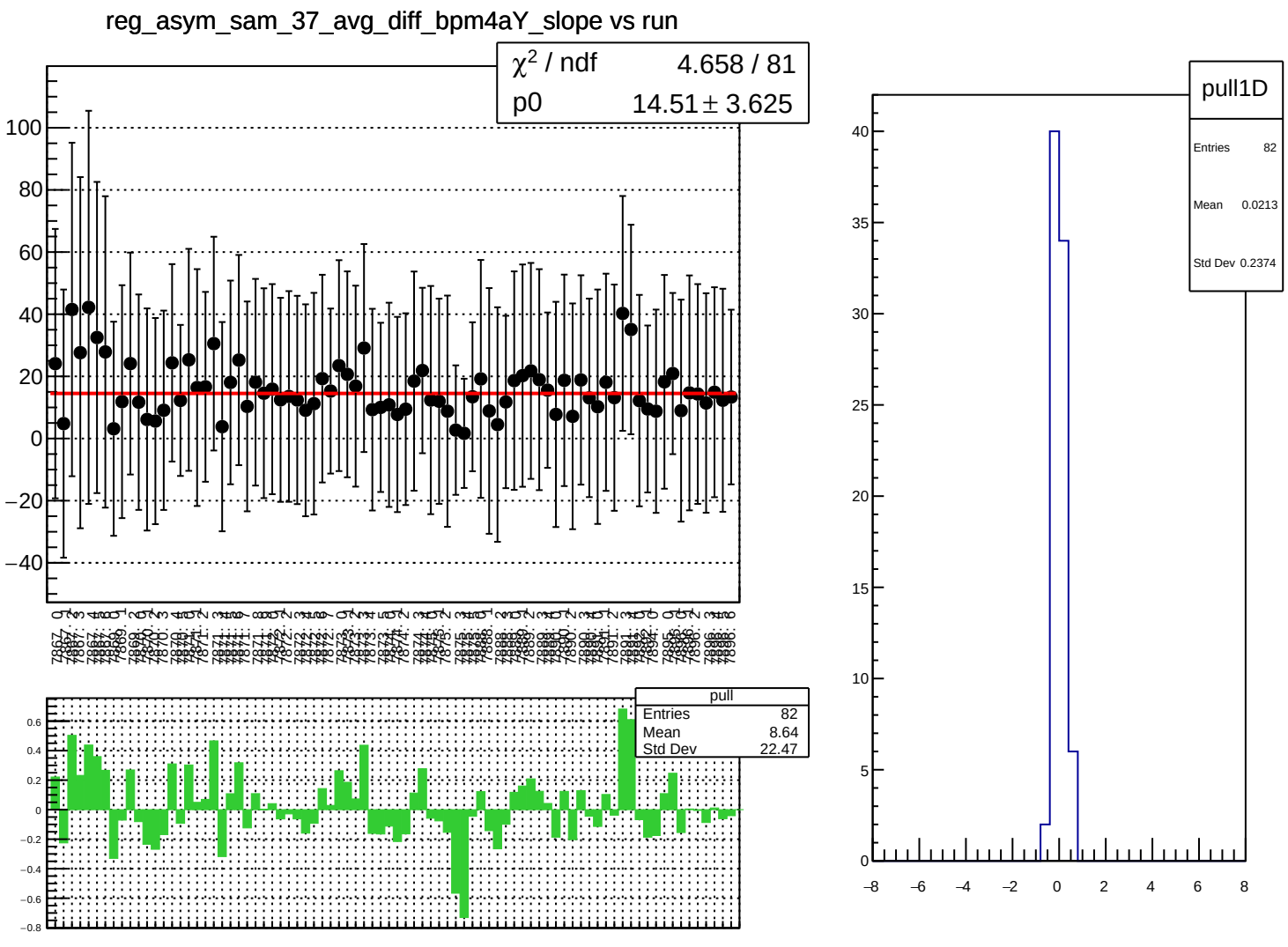

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.73 / 81
p0 −7.166 ± 0.6375
pull
Entries 82
Mean −6757
Std Dev 0
pull1D
Entries 82
Mean −0.00036
Std Dev 0.3617

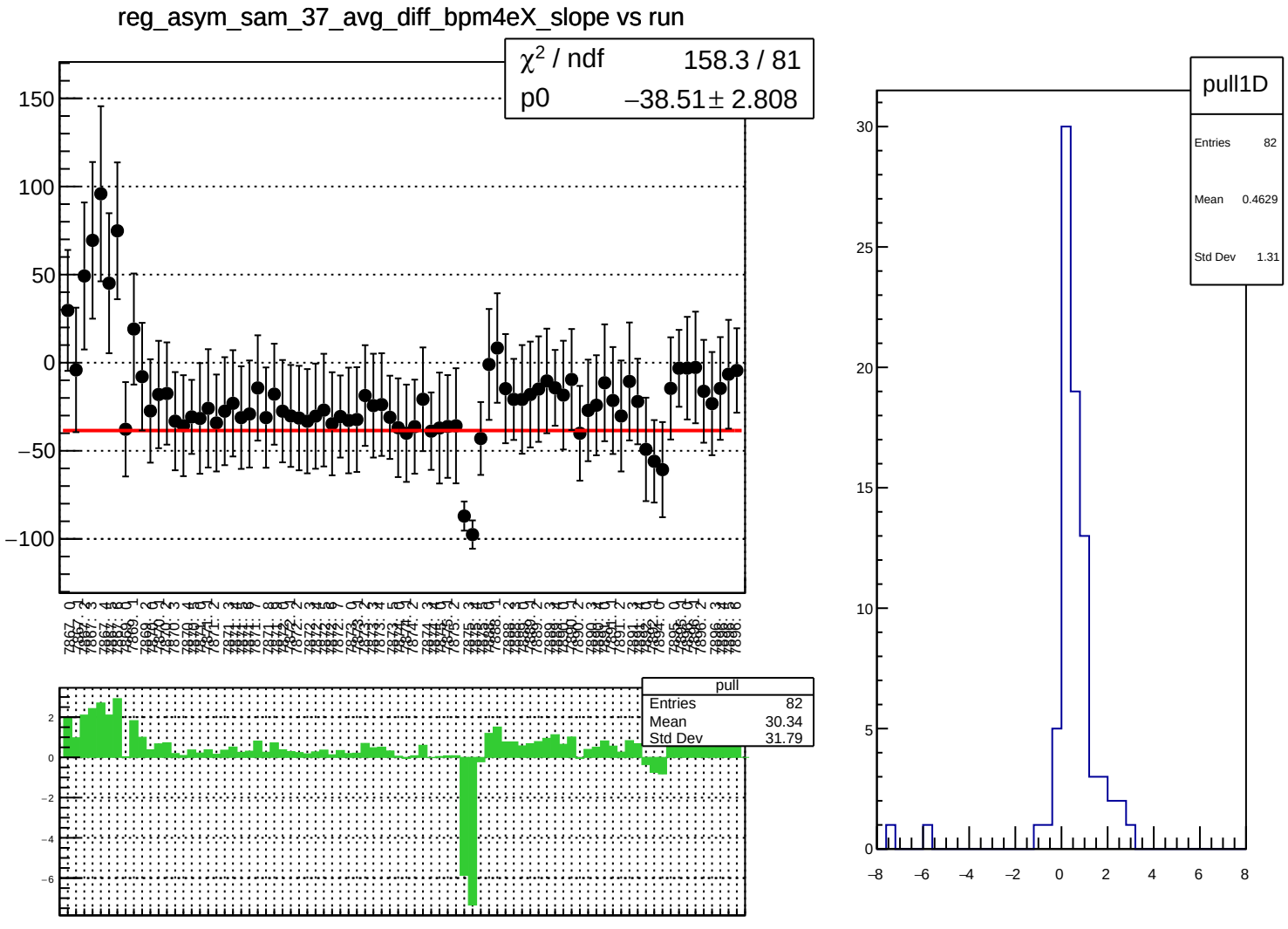

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.34 / 81
p0 −5.64 ± 0.9336
pull
Entries 82
Mean 168.4
Std Dev 0
pull1D
Entries 82
Mean 0.01238
Std Dev 0.7099

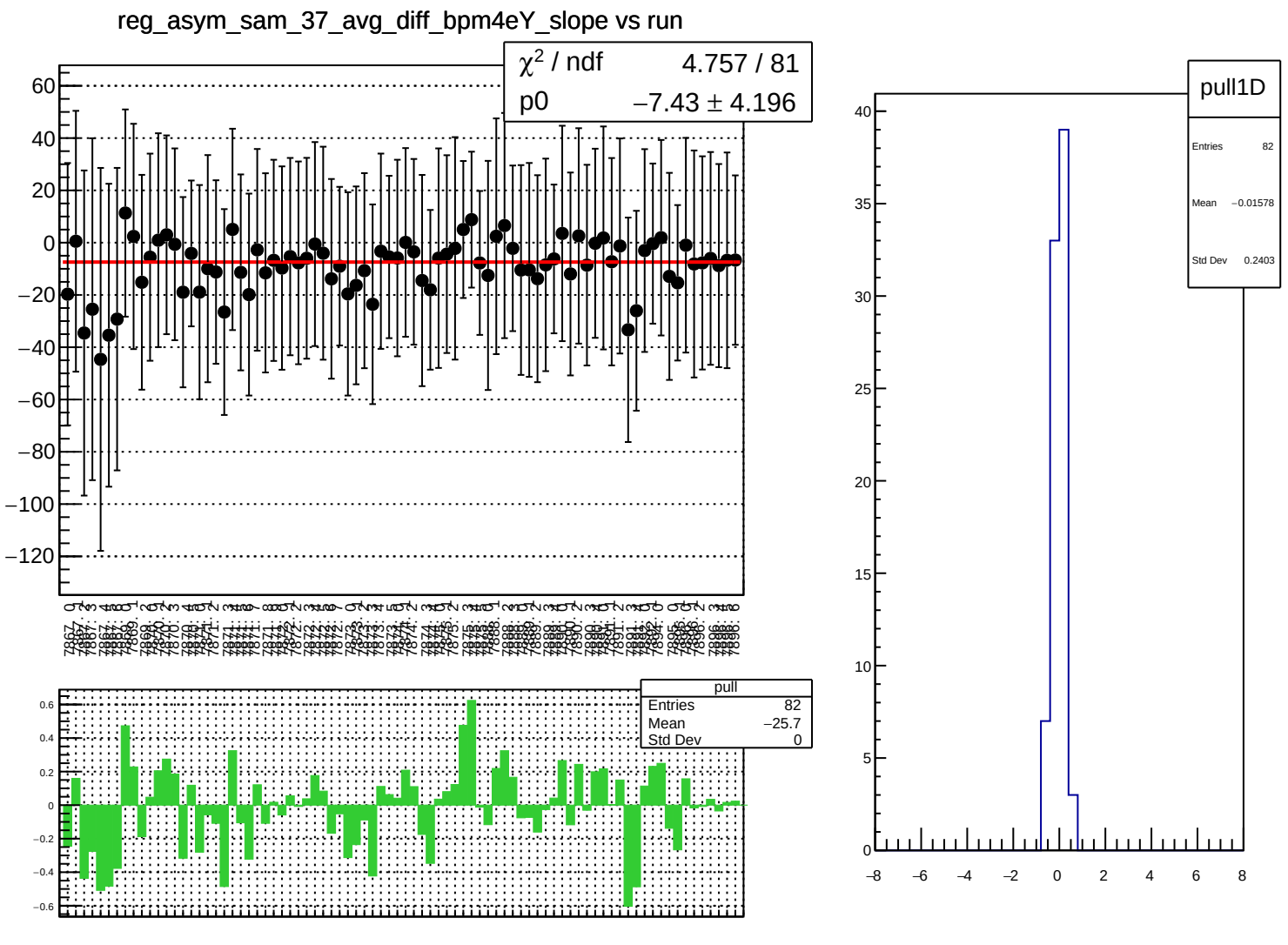

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 22.89 / 81
p0 0.5811± 0.02912
pull
Entries 82
Mean −144.2
Std Dev 0
pull1D
Entries 82
Mean 0.04041
Std Dev 0.5267

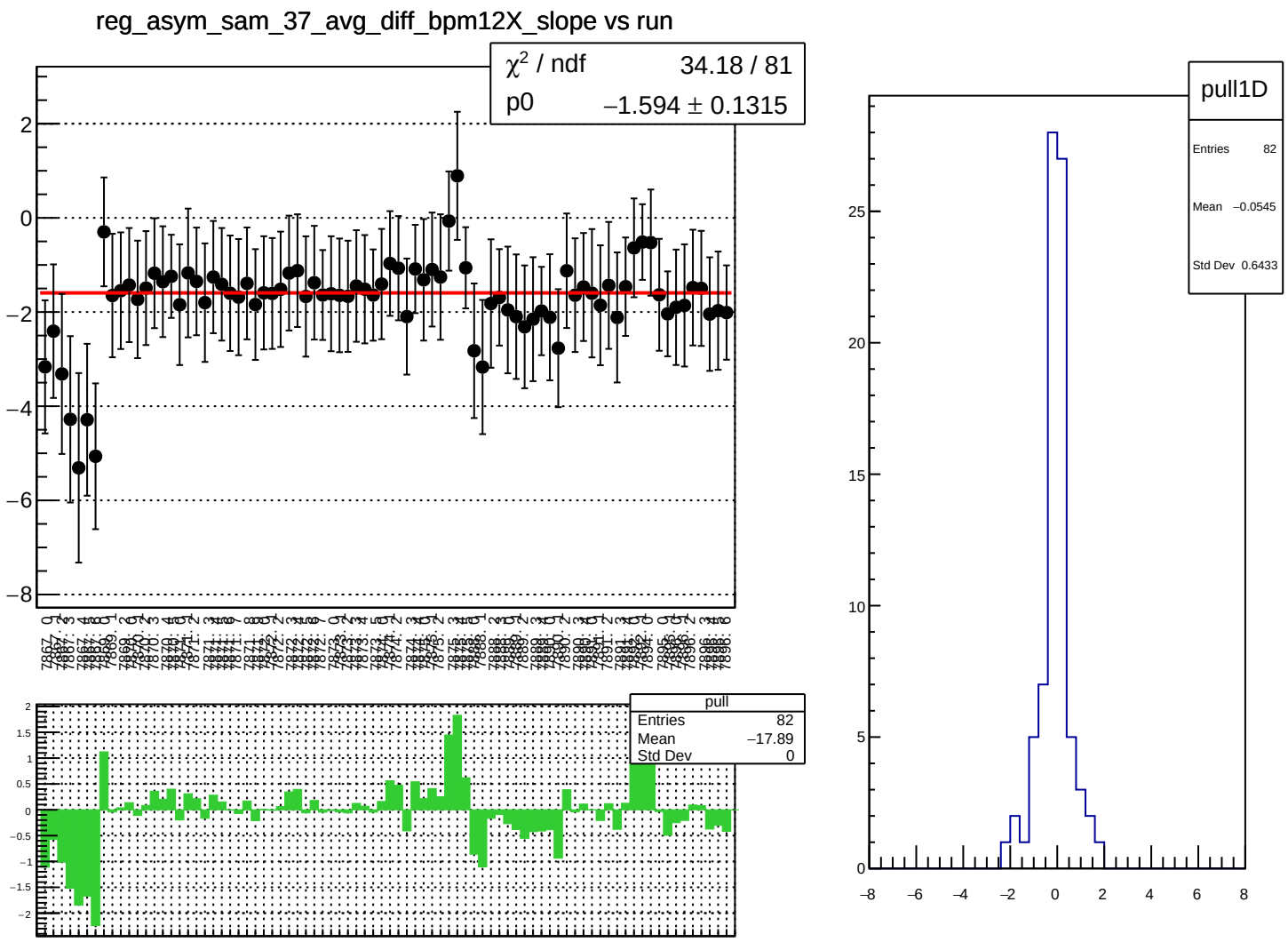

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 139.9 / 81
p0 −61.1 ± 3.306
pull
Entries 82
Mean 28.27
Std Dev 32.79

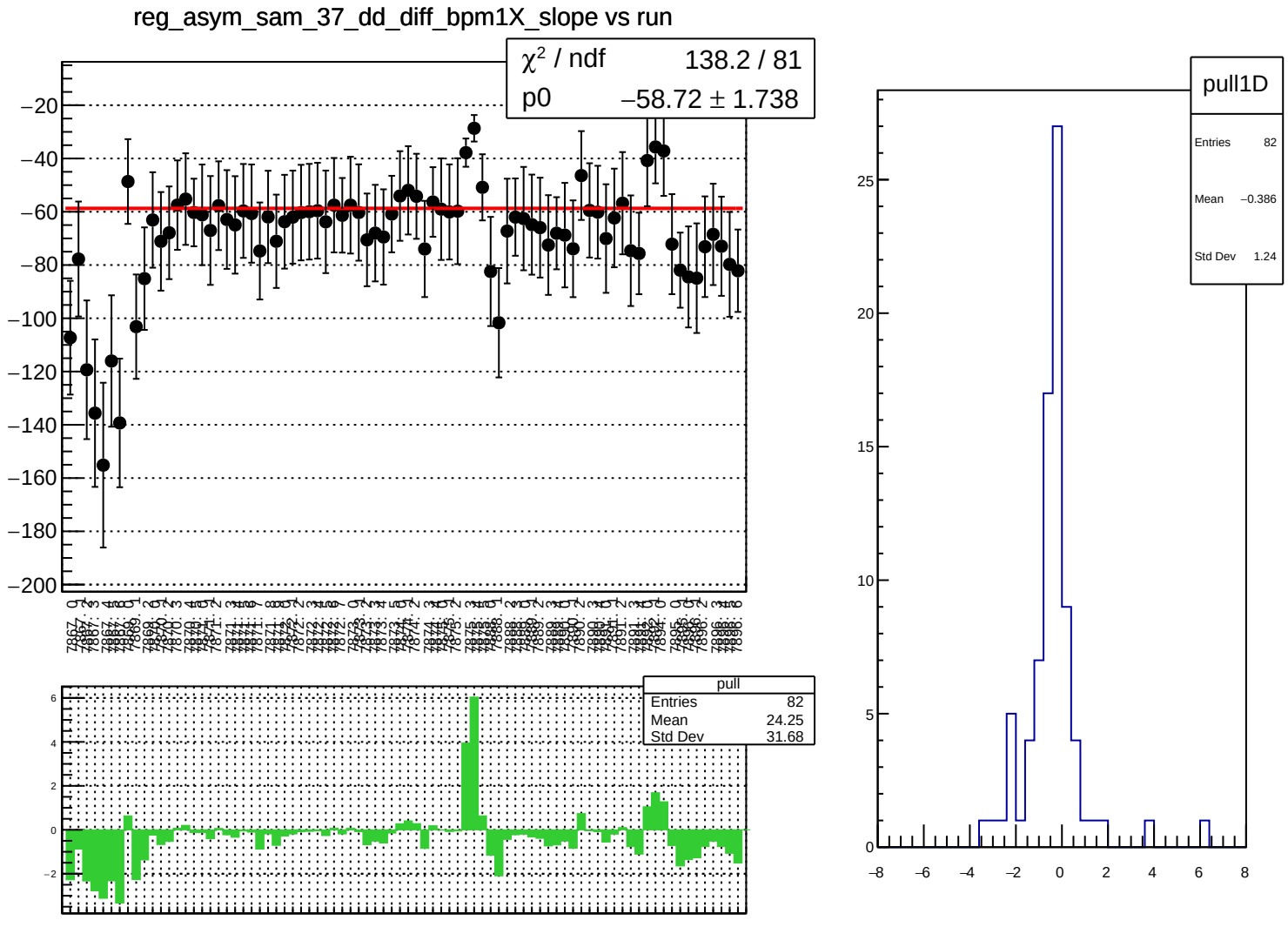

pull1D
Entries 82
Mean −0.3783
Std Dev 1.25

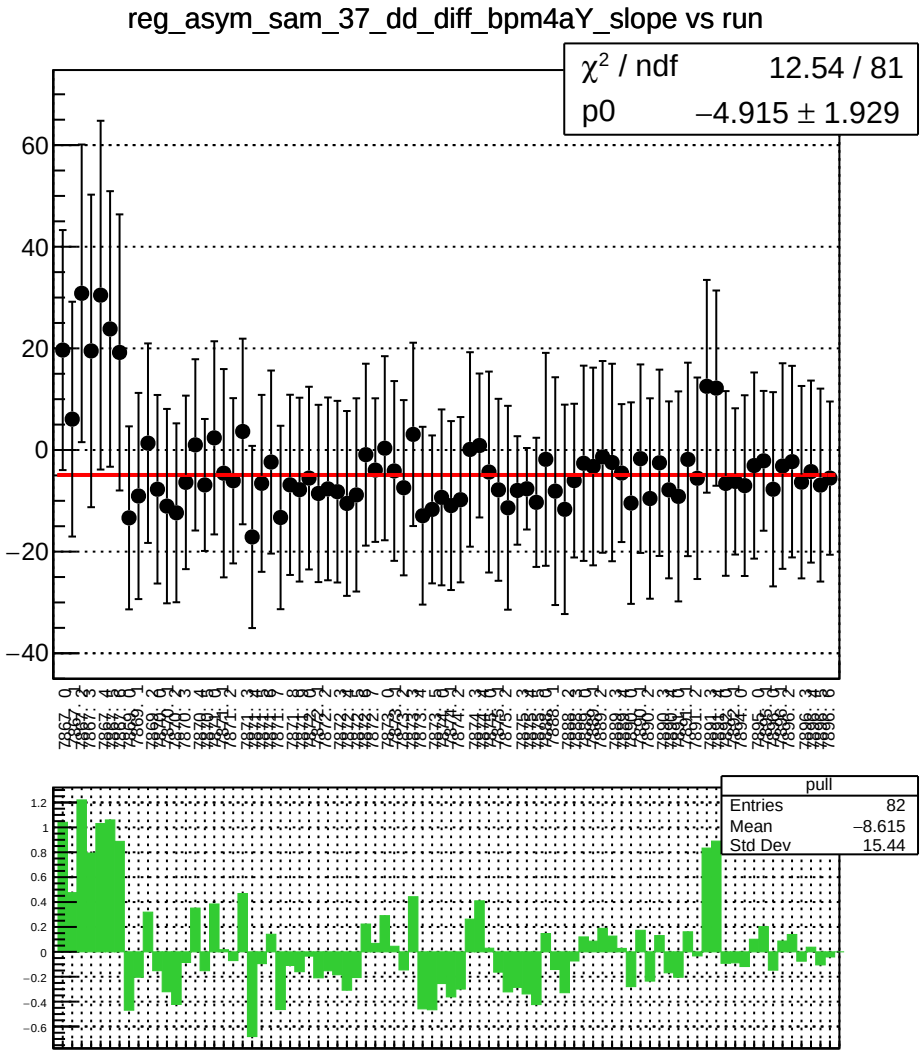

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.658 / 81
p0 14.51 ± 3.625
pull
Entries 82
Mean 8.64
Std Dev 22.47
pull1D
Entries 82
Mean 0.0213
Std Dev 0.2374

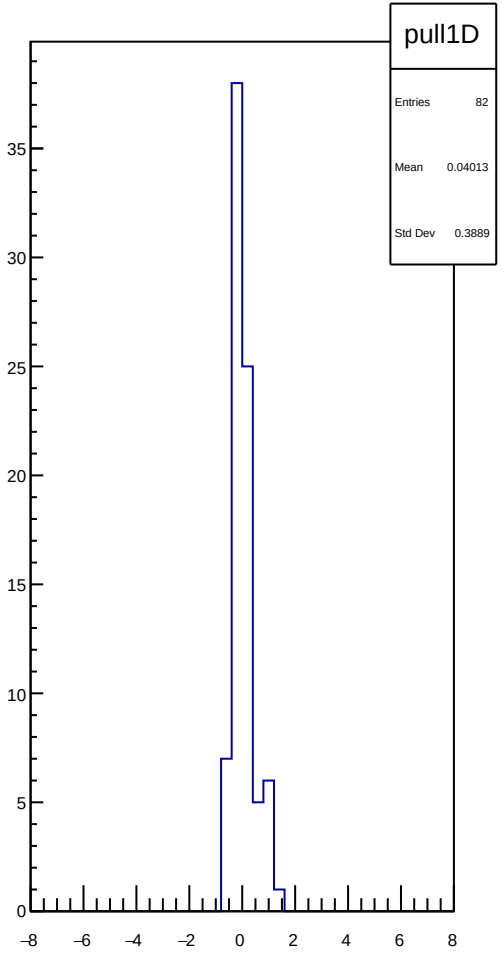

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 158.3 / 81
p0 −38.51 ± 2.808
150
100
50
0
−50
−100
pull
Entries 82
Mean 30.34
Std Dev 31.79
2
0
−2
−4
−6
pull1D
Entries 82
Mean 0.4629
Std Dev 1.31
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

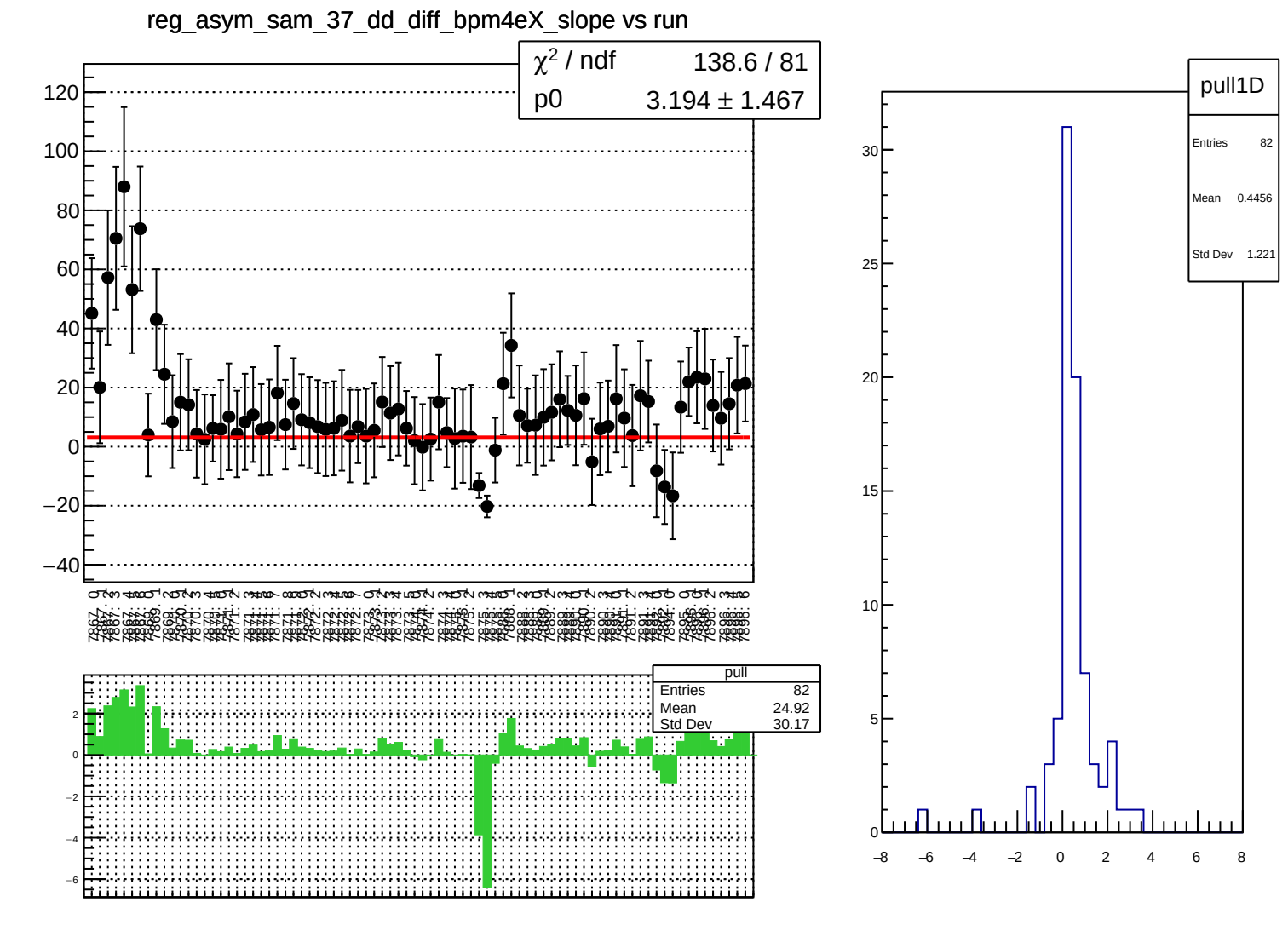

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.757 / 81
p0 −7.43 ± 4.196
pull
Entries 82
Mean −25.7
Std Dev 0
pull1D
Entries 82
Mean −0.01578
Std Dev 0.2403

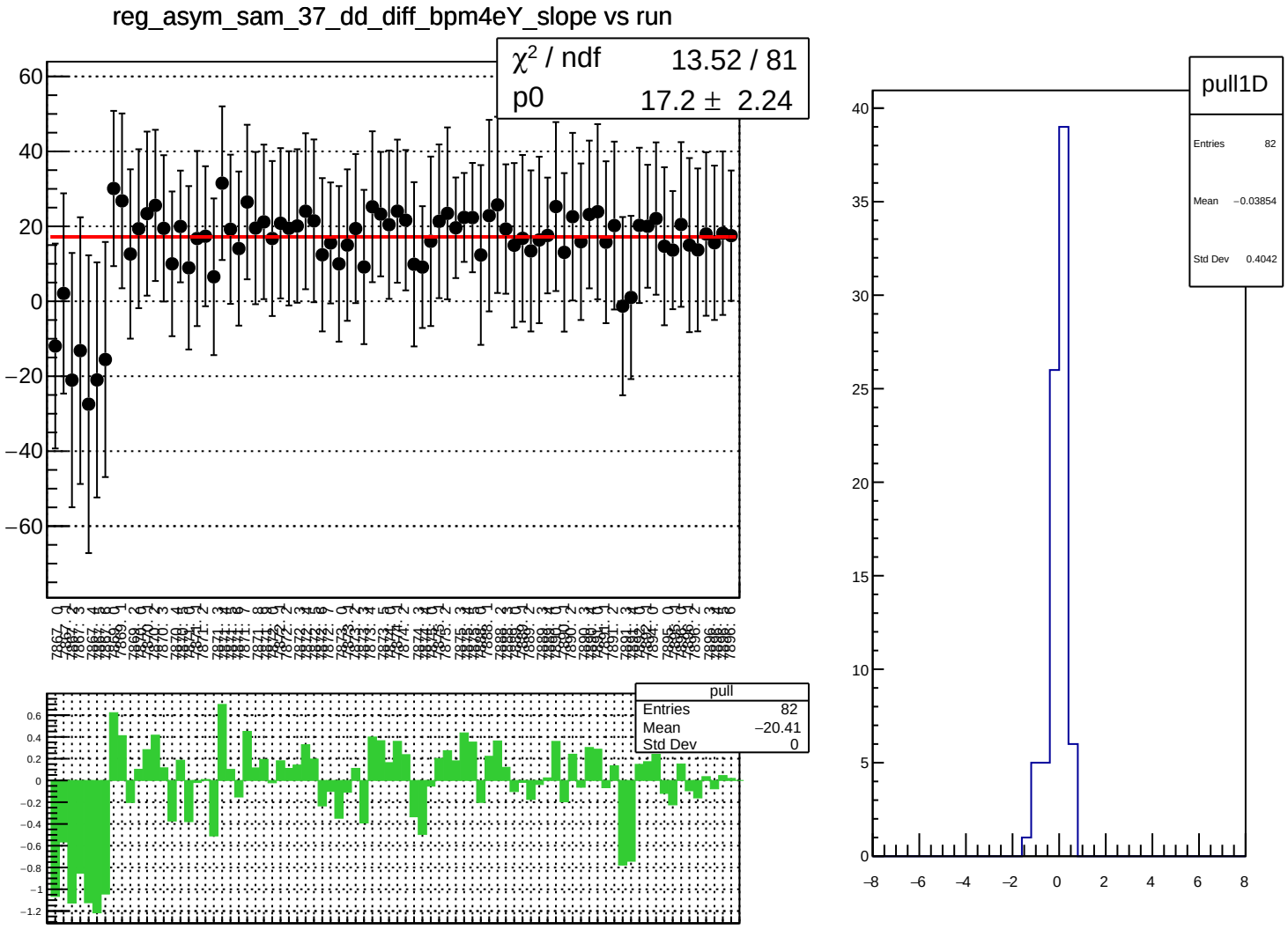

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 34.18 / 81
p0 −1.594 ± 0.1315
pull
Entries 82
Mean −17.89
Std Dev 0
pull1D
Entries 82
Mean −0.0545
Std Dev 0.6433

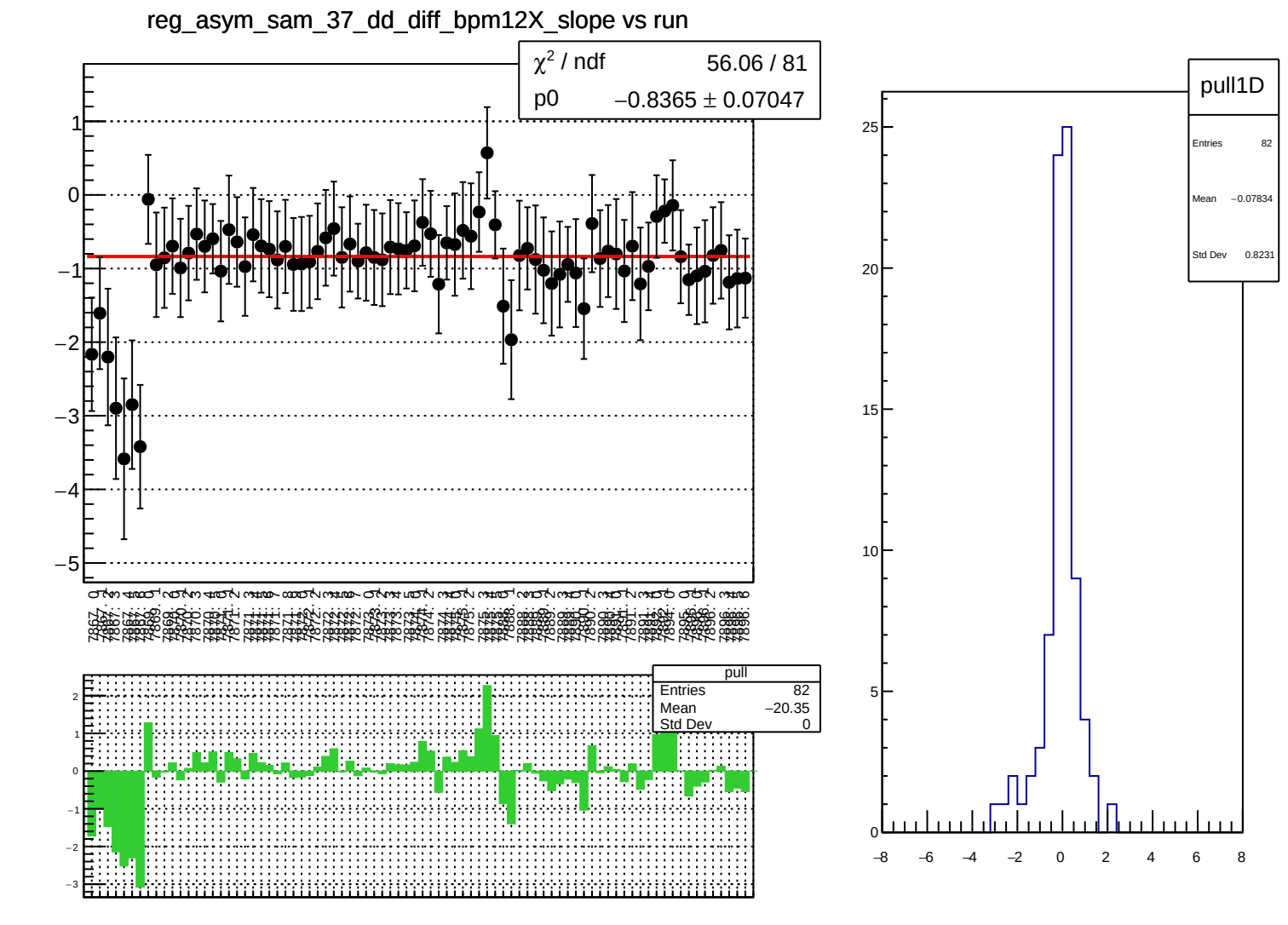

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 138.2 / 81
p0 −58.72 ± 1.738
pull
Entries 82
Mean 24.25
Std Dev 31.68
pull1D
Entries 82
Mean −0.386
Std Dev 1.24

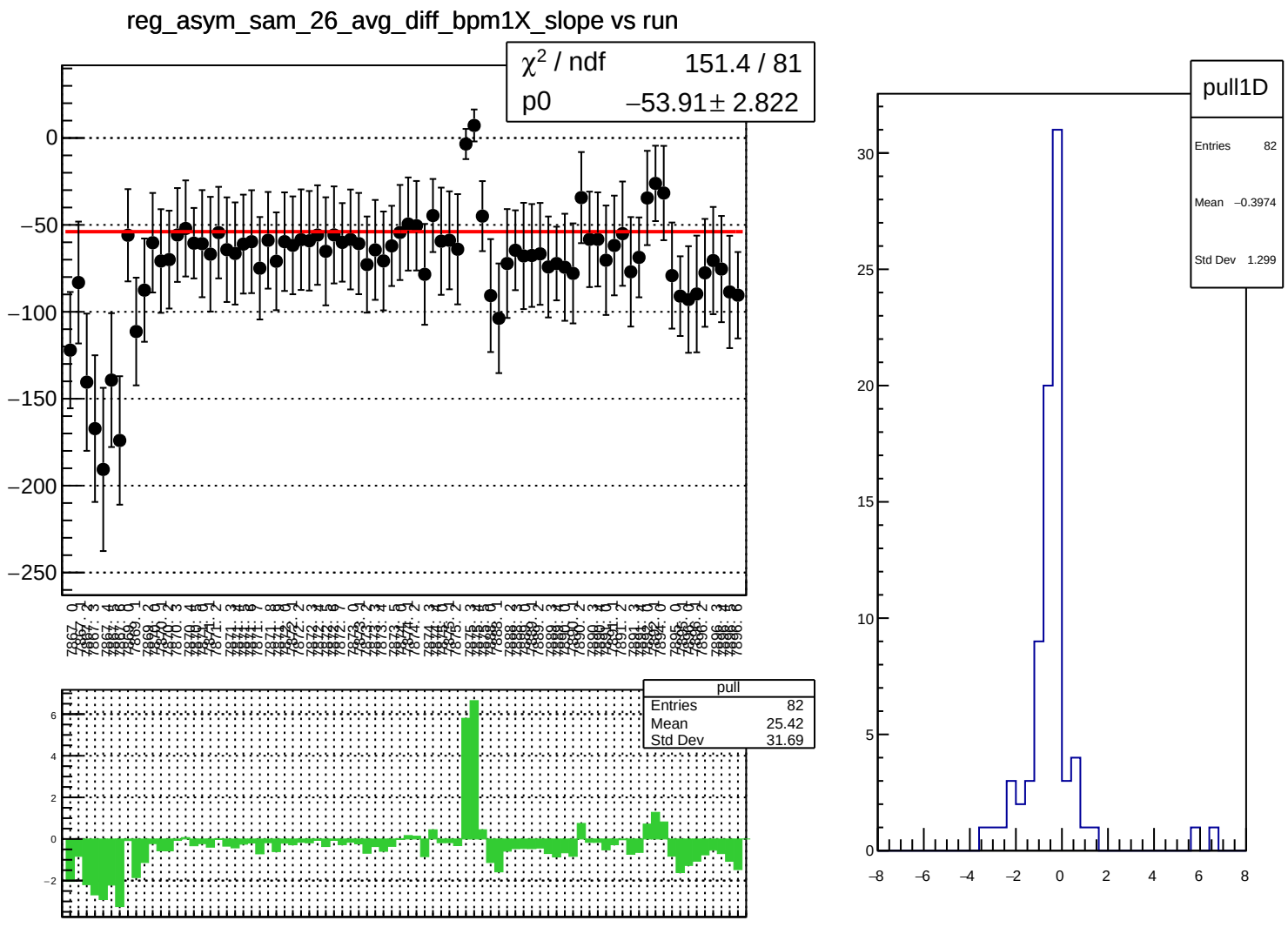

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.54 / 81
p0 −4.915 ± 1.929
pull
Entries 82
Mean −8.615
Std Dev 15.44

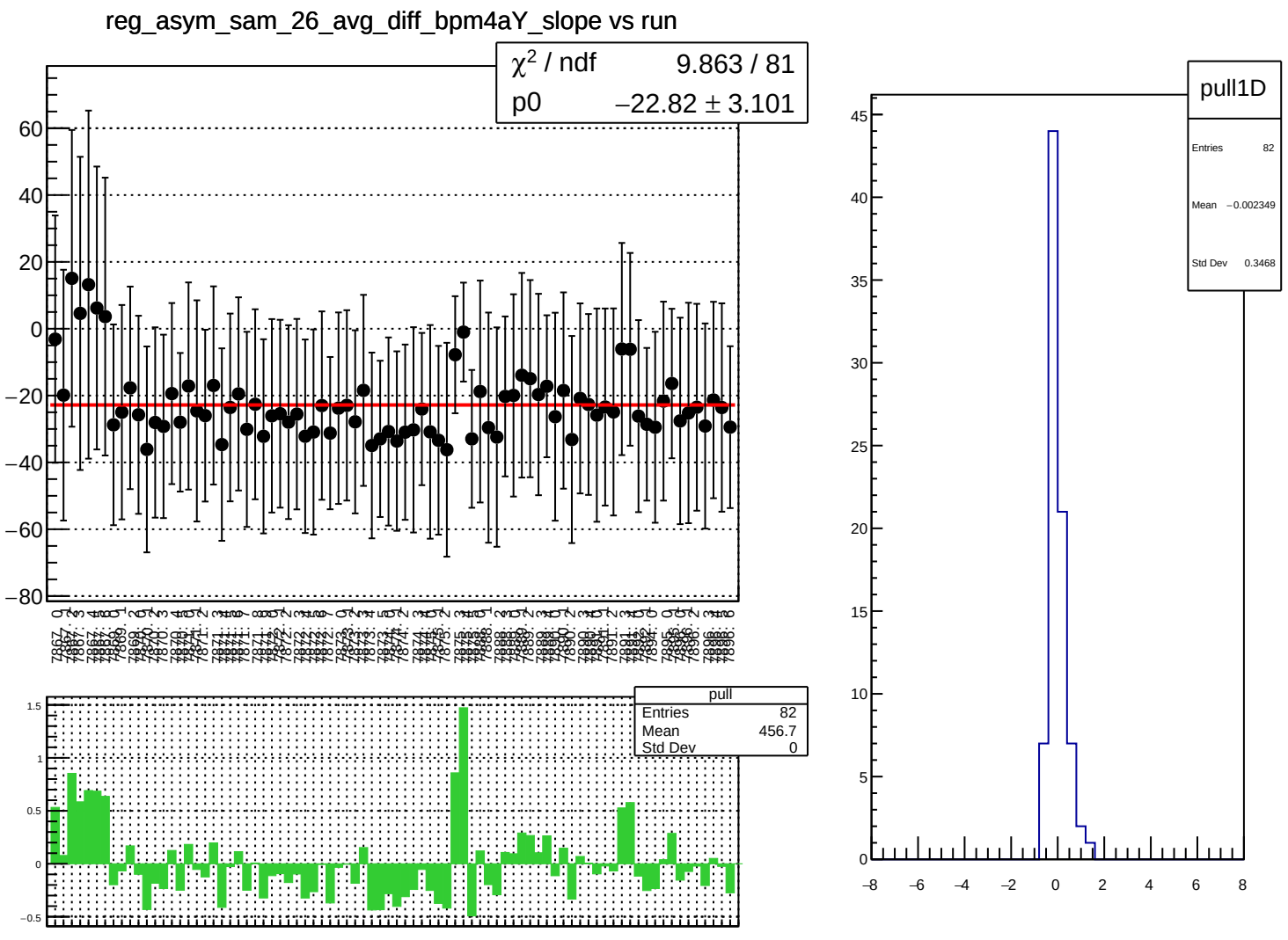

pull1D
Entries 82
Mean 0.04013
Std Dev 0.3889

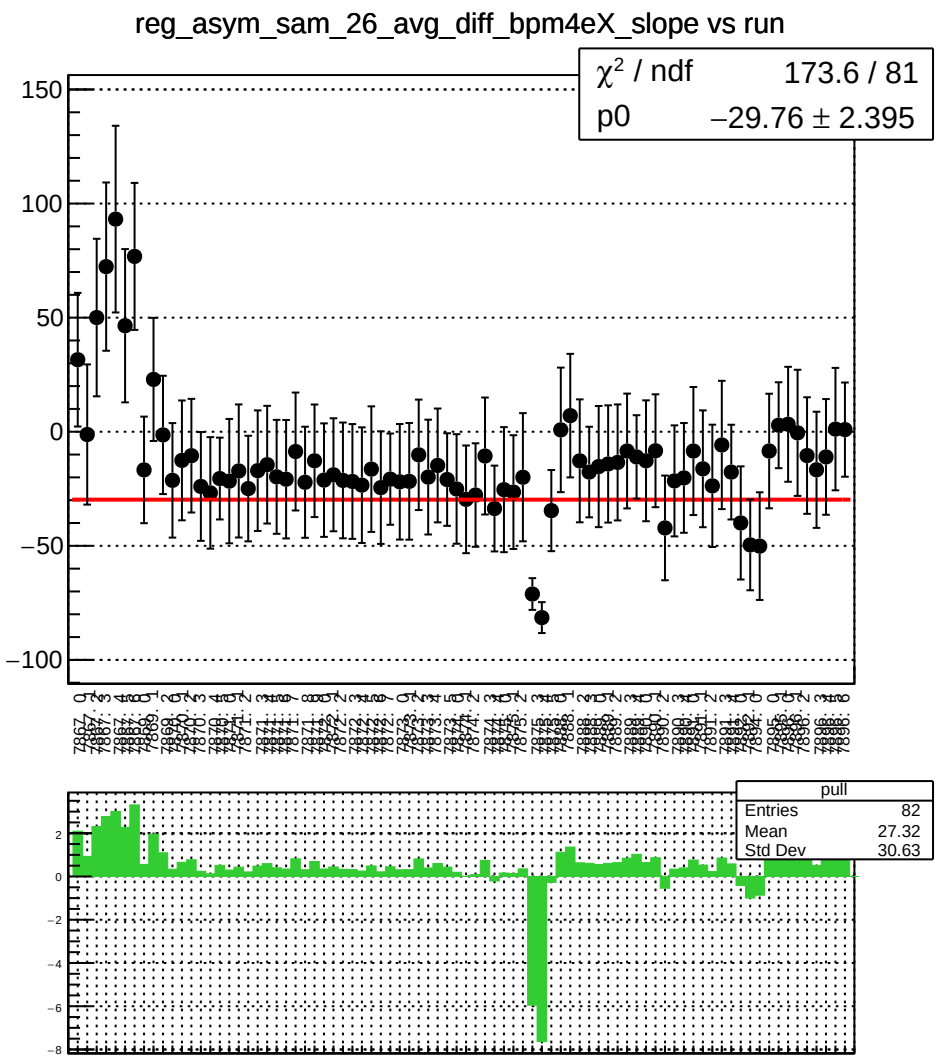

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 138.6 / 81
p0 3.194 ± 1.467
pull
Entries 82
Mean 24.92
Std Dev 30.17
pull1D
Entries 82
Mean 0.4456
Std Dev 1.221

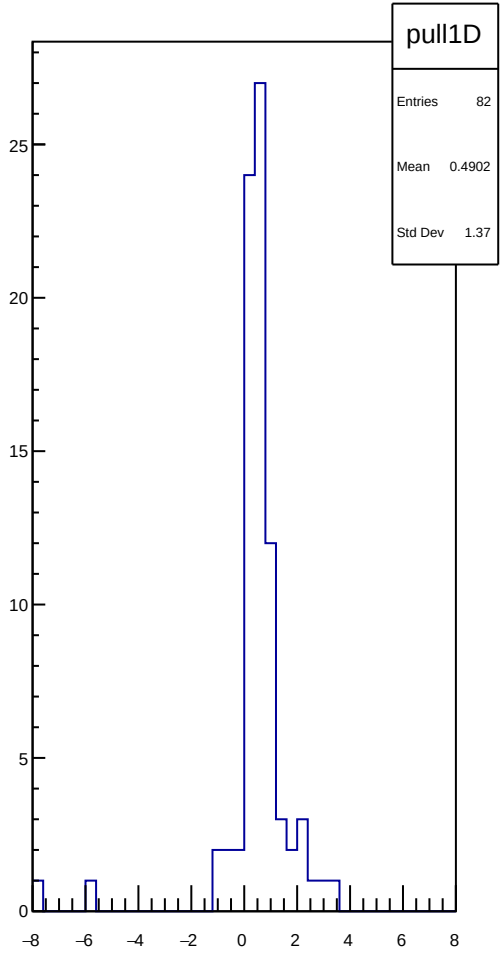

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.52 / 81
p0 17.2 ± 2.24
pull
Entries 82
Mean −20.41
Std Dev 0
pull1D
Entries 82
Mean −0.03854
Std Dev 0.4042

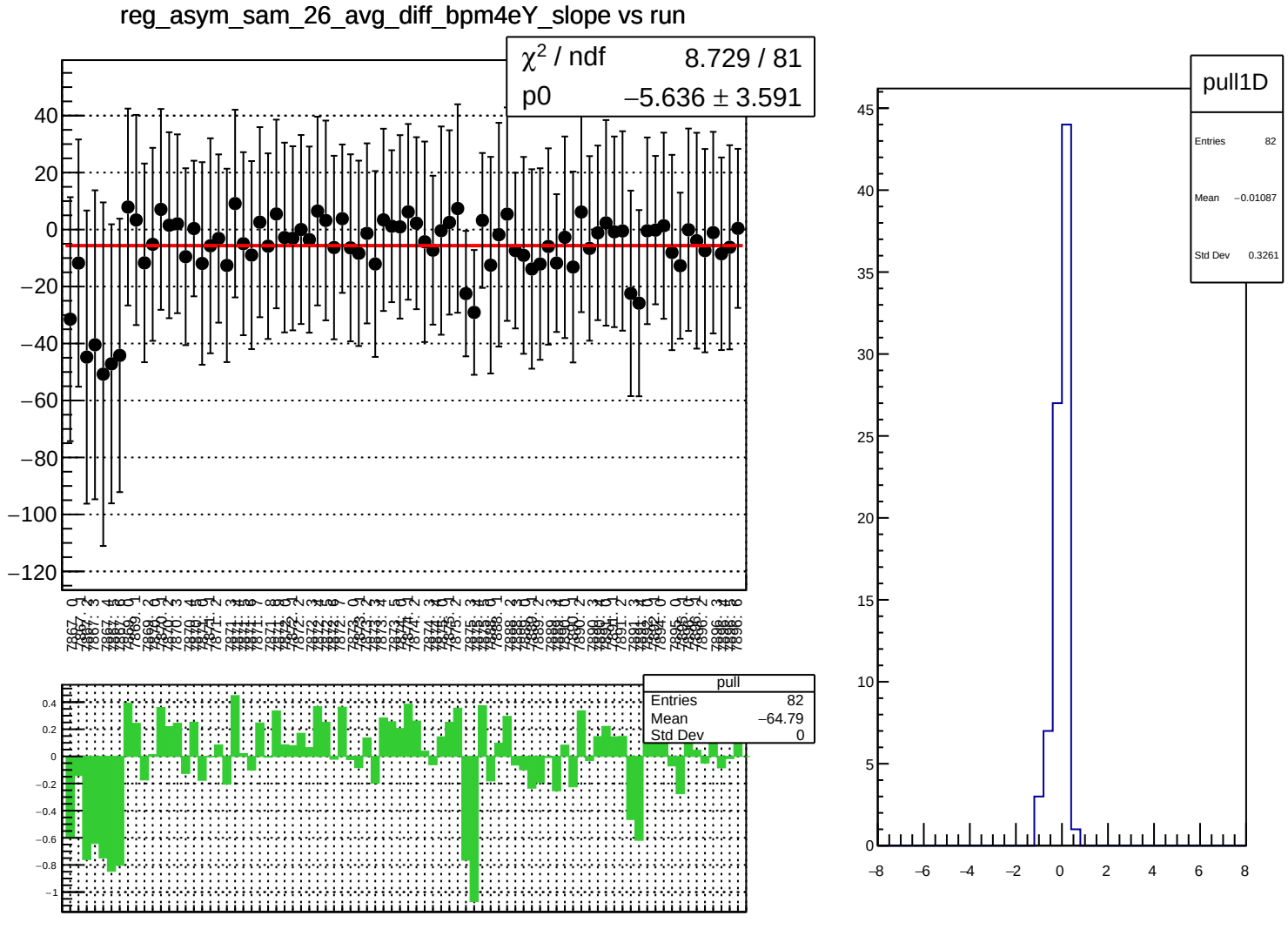

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 56.06 / 81
p0 −0.8365 ± 0.07047
pull
Entries 82
Mean −20.35
Std Dev 0
pull1D
Entries 82
Mean −0.07834
Std Dev 0.8231

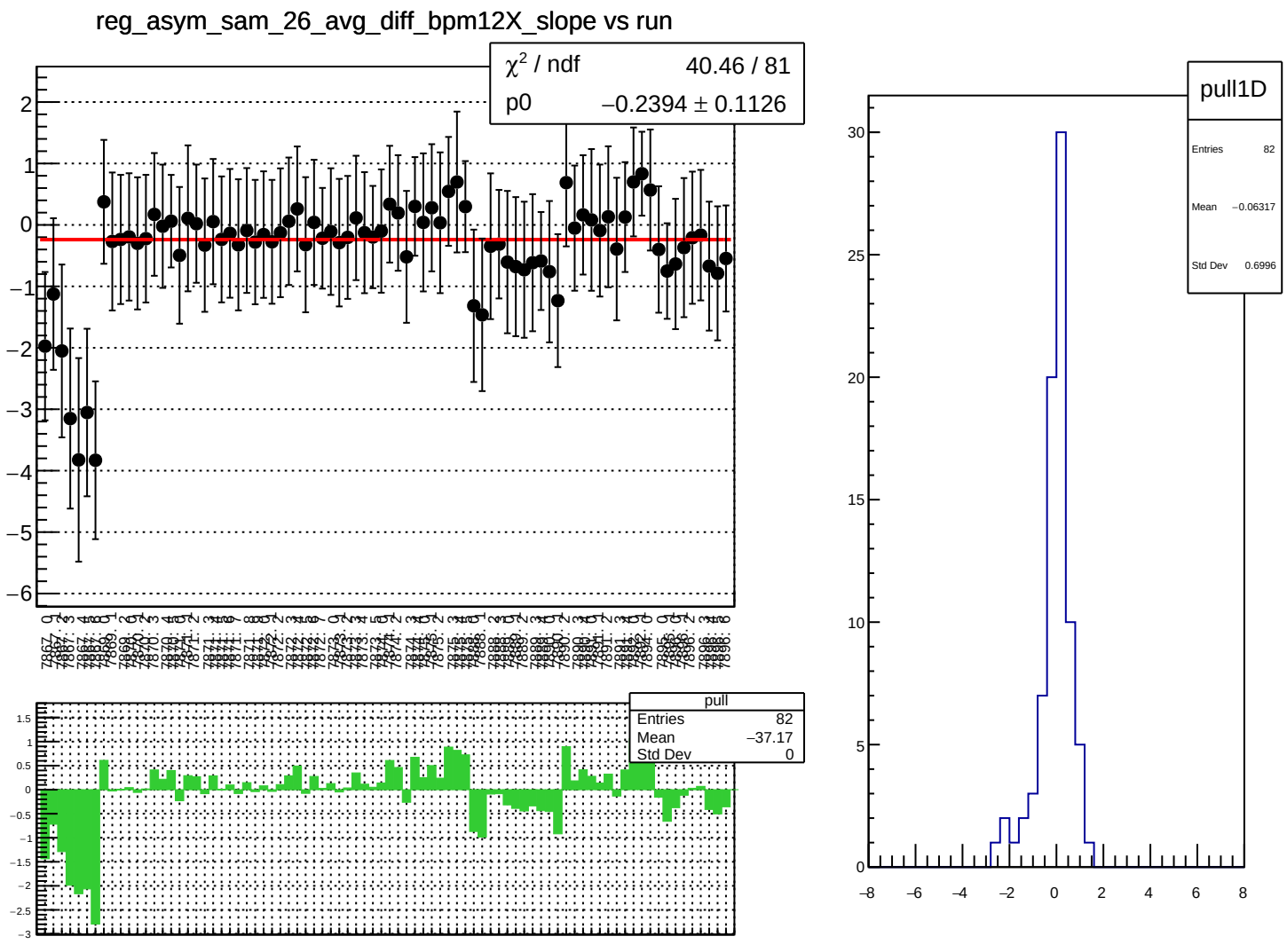

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 151.4 / 81
p0 −53.91 ± 2.822
pull
Entries 82
Mean 25.42
Std Dev 31.69
pull1D
Entries 82
Mean −0.3974
Std Dev 1.299

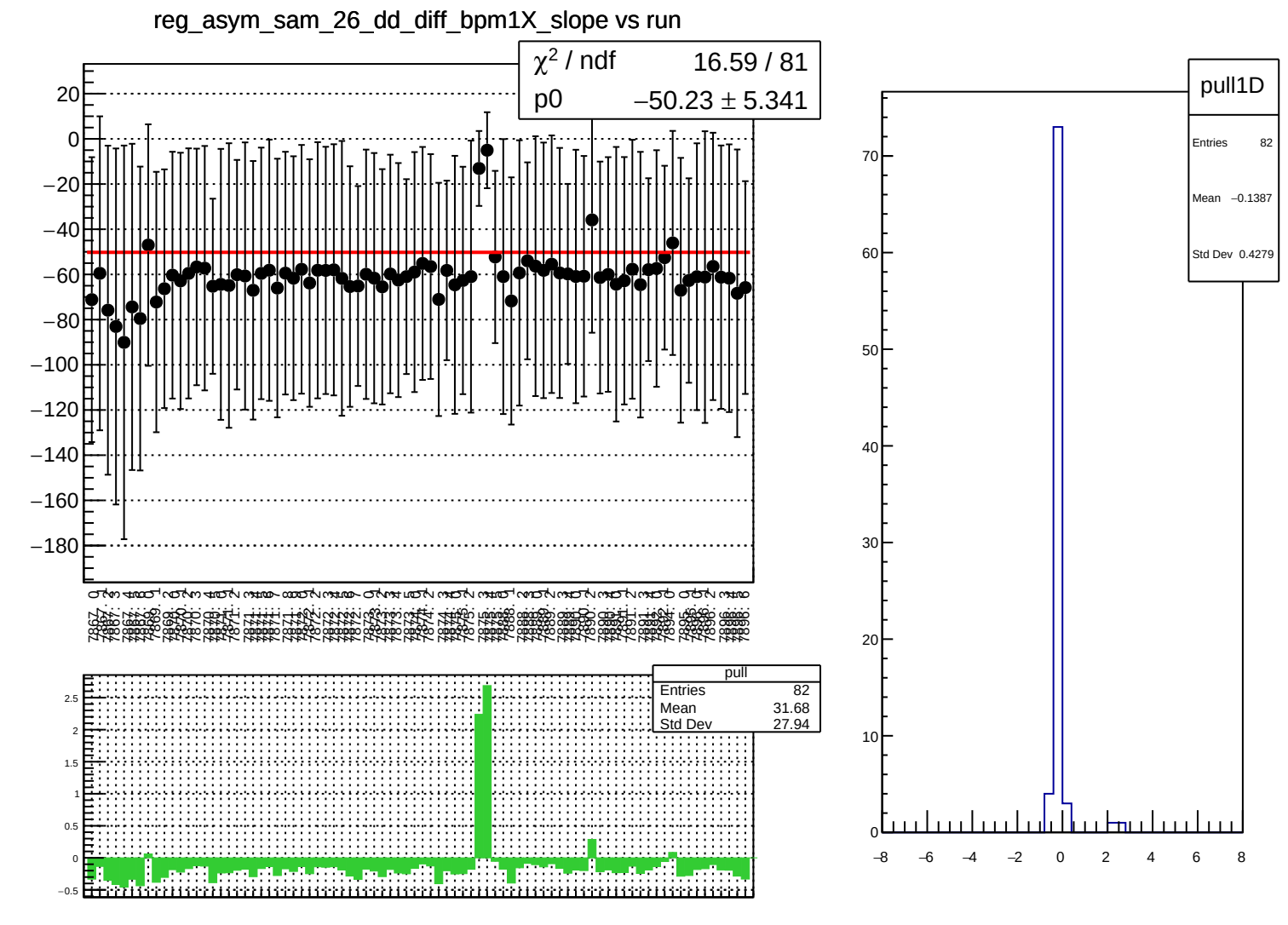

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.863 / 81
p0 −22.82 ± 3.101
pull
Entries 82
Mean 456.7
Std Dev 0
pull1D
Entries 82
Mean −0.002349
Std Dev 0.3468

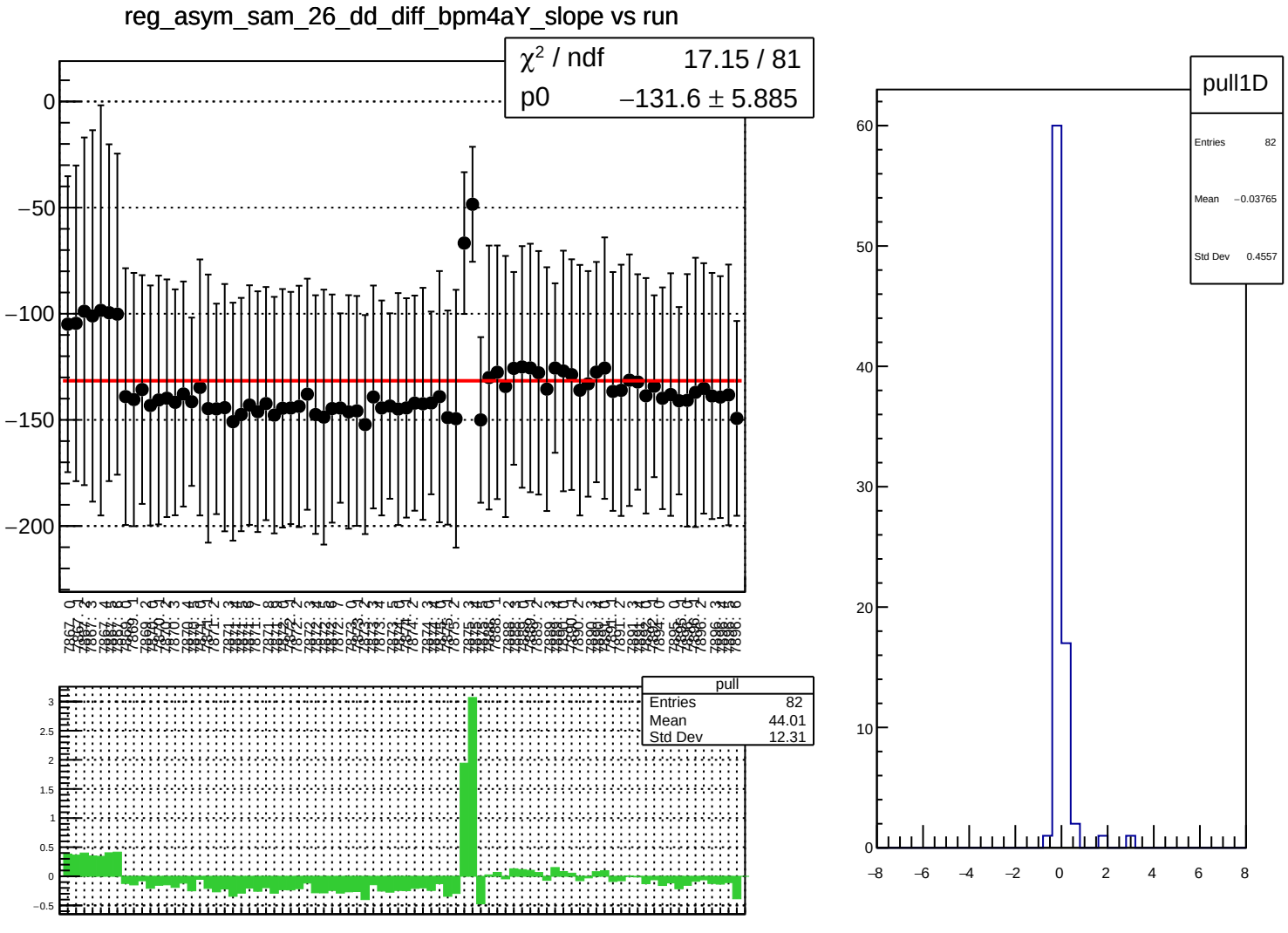

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 173.6 / 81
p0 −29.76 ± 2.395
150
100
50
0
−50
−100
pull
Entries 82
Mean 27.32
Std Dev 30.63
2
0
−2
−4
−6
−8

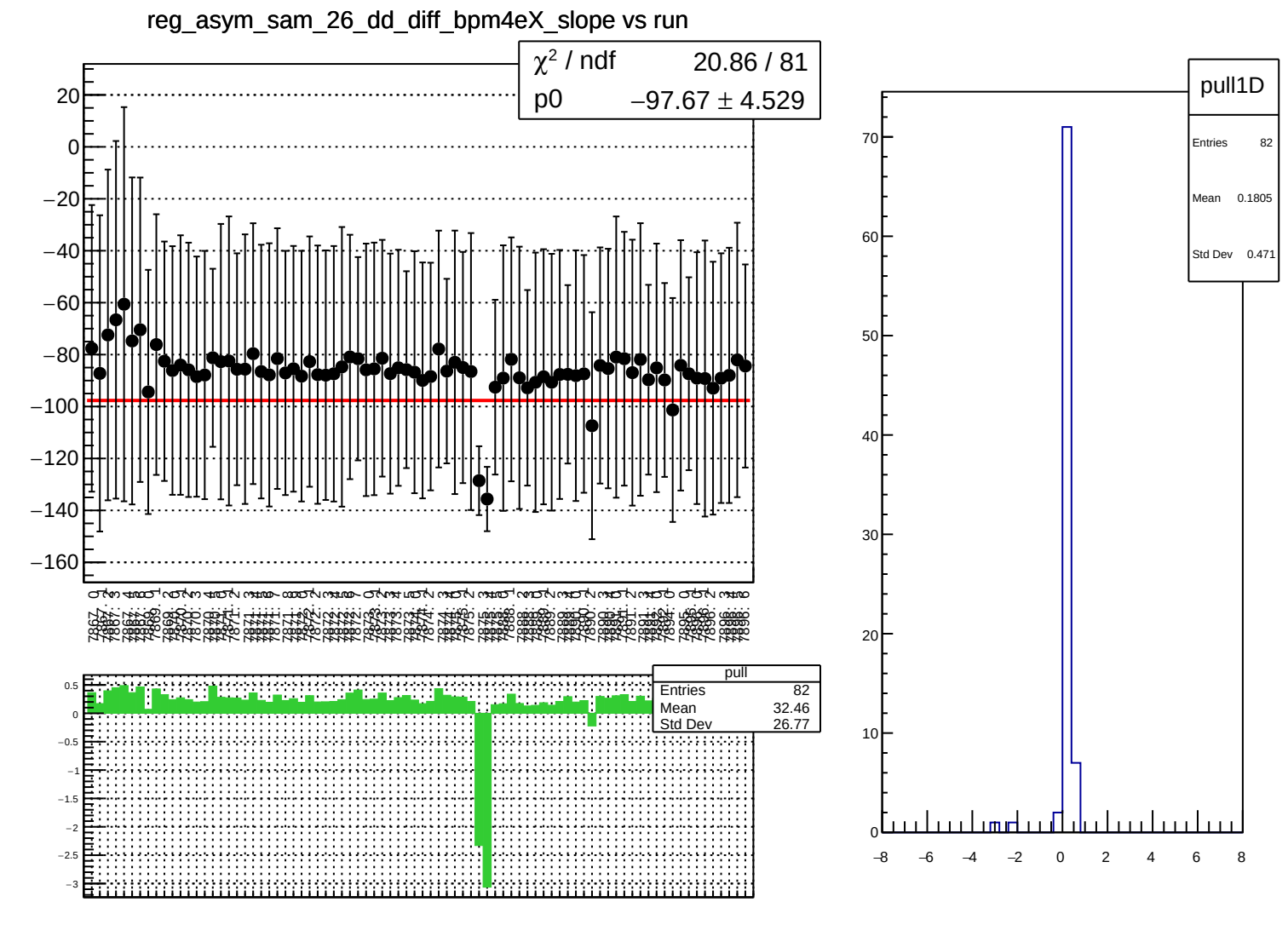

pull1D
Entries 82
Mean 0.4902
Std Dev 1.37
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

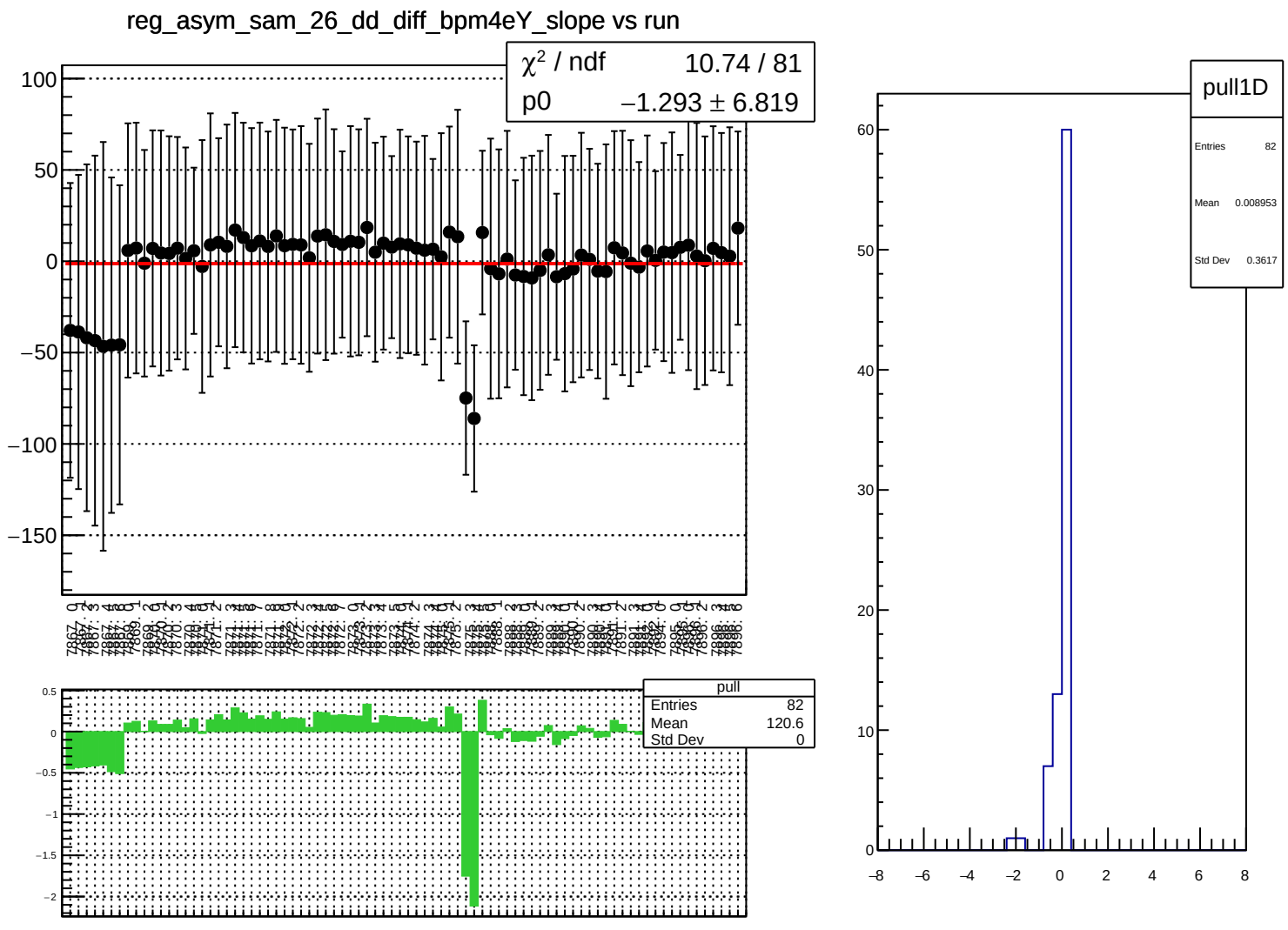

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.729 / 81
p0 −5.636 ± 3.591
pull
Entries 82
Mean −64.79
Std Dev 0
pull1D
Entries 82
Mean −0.01087
Std Dev 0.3261

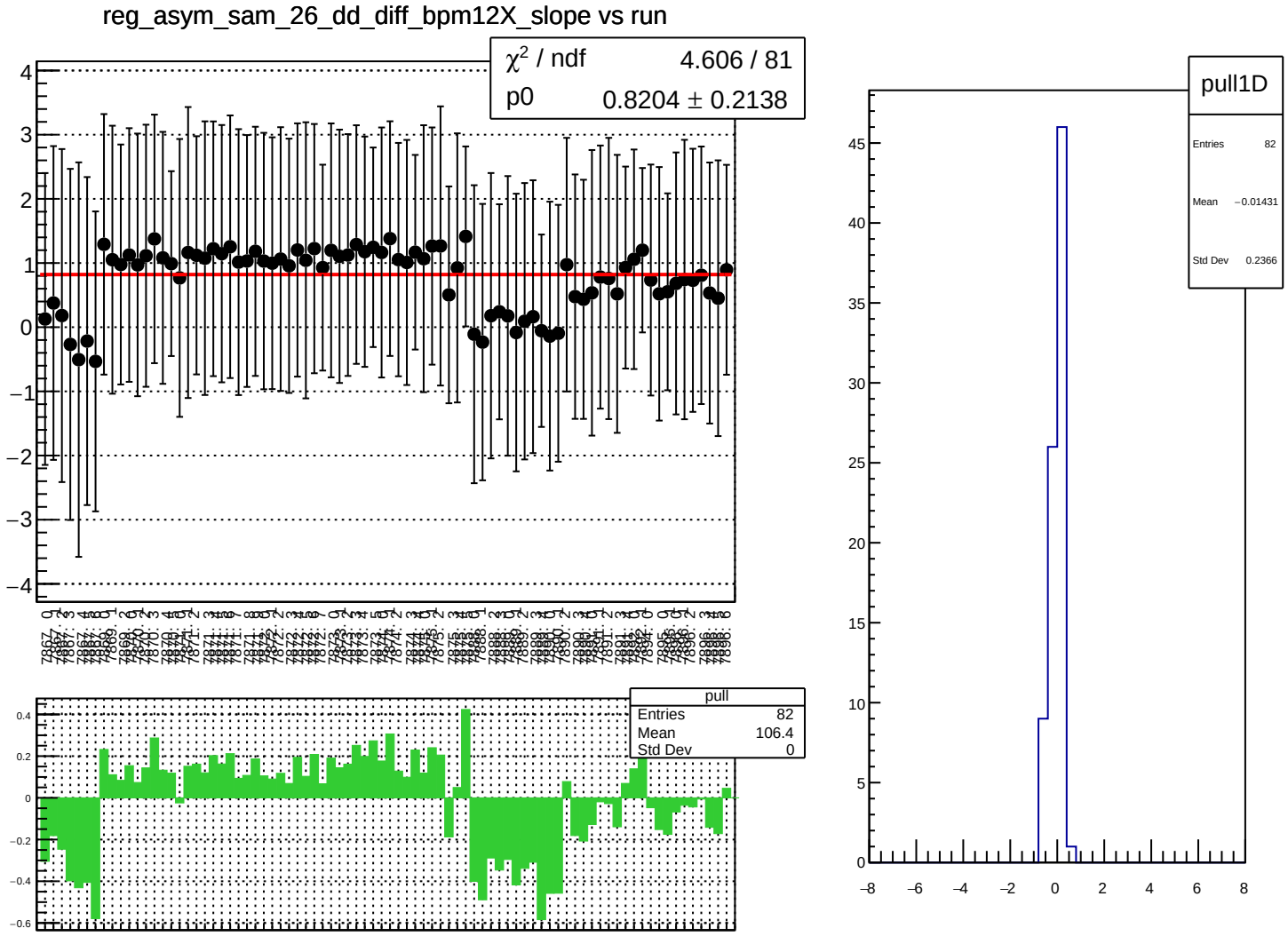

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 40.46 / 81
p0 −0.2394 ± 0.1126
pull
Entries 82
Mean −37.17
Std Dev 0
pull1D
Entries 82
Mean −0.06317
Std Dev 0.6996

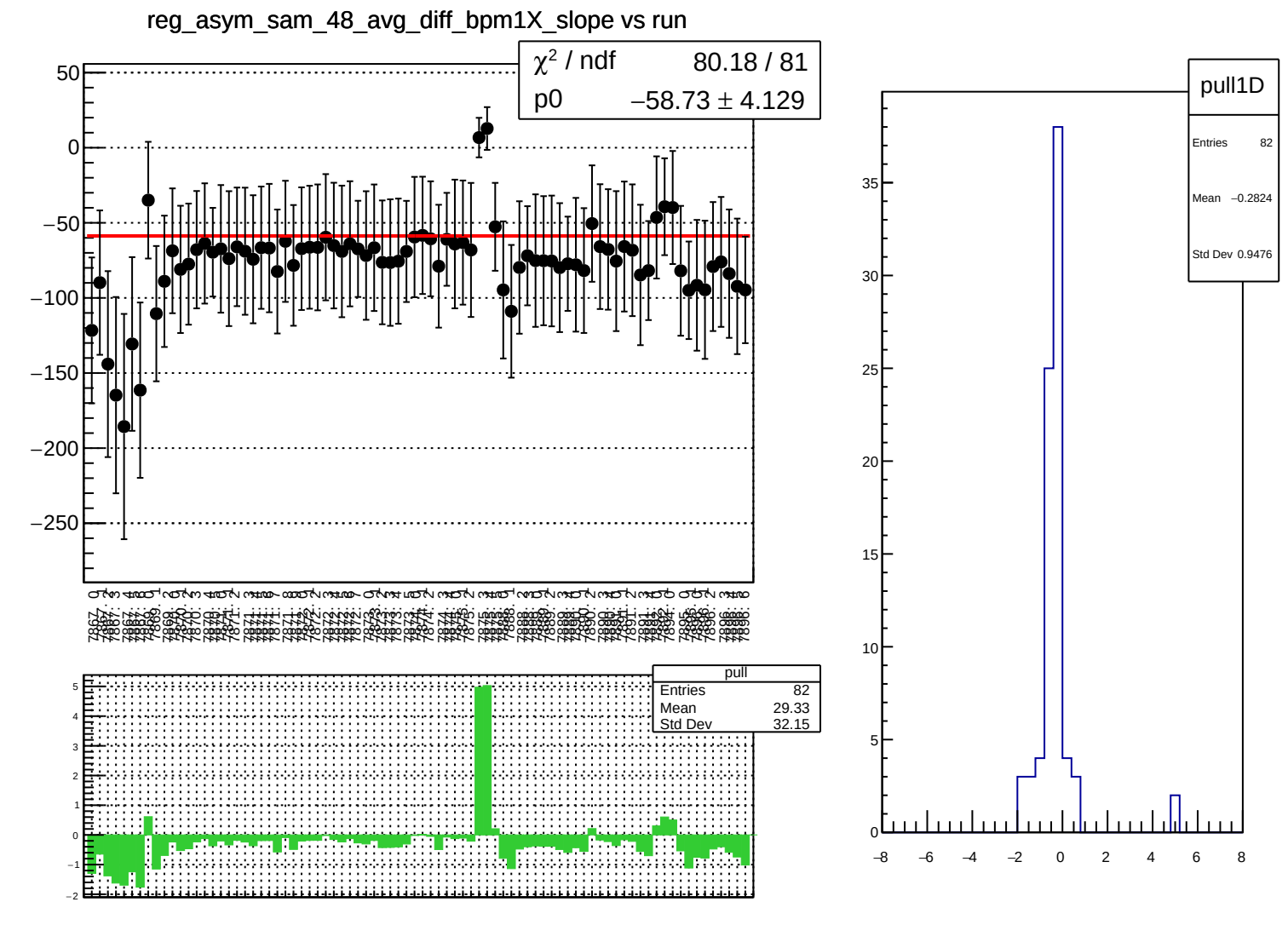

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 16.59 / 81
p0 −50.23 ± 5.341
pull
Entries 82
Mean 31.68
Std Dev 27.94
pull1D
Entries 82
Mean −0.1387
Std Dev 0.4279

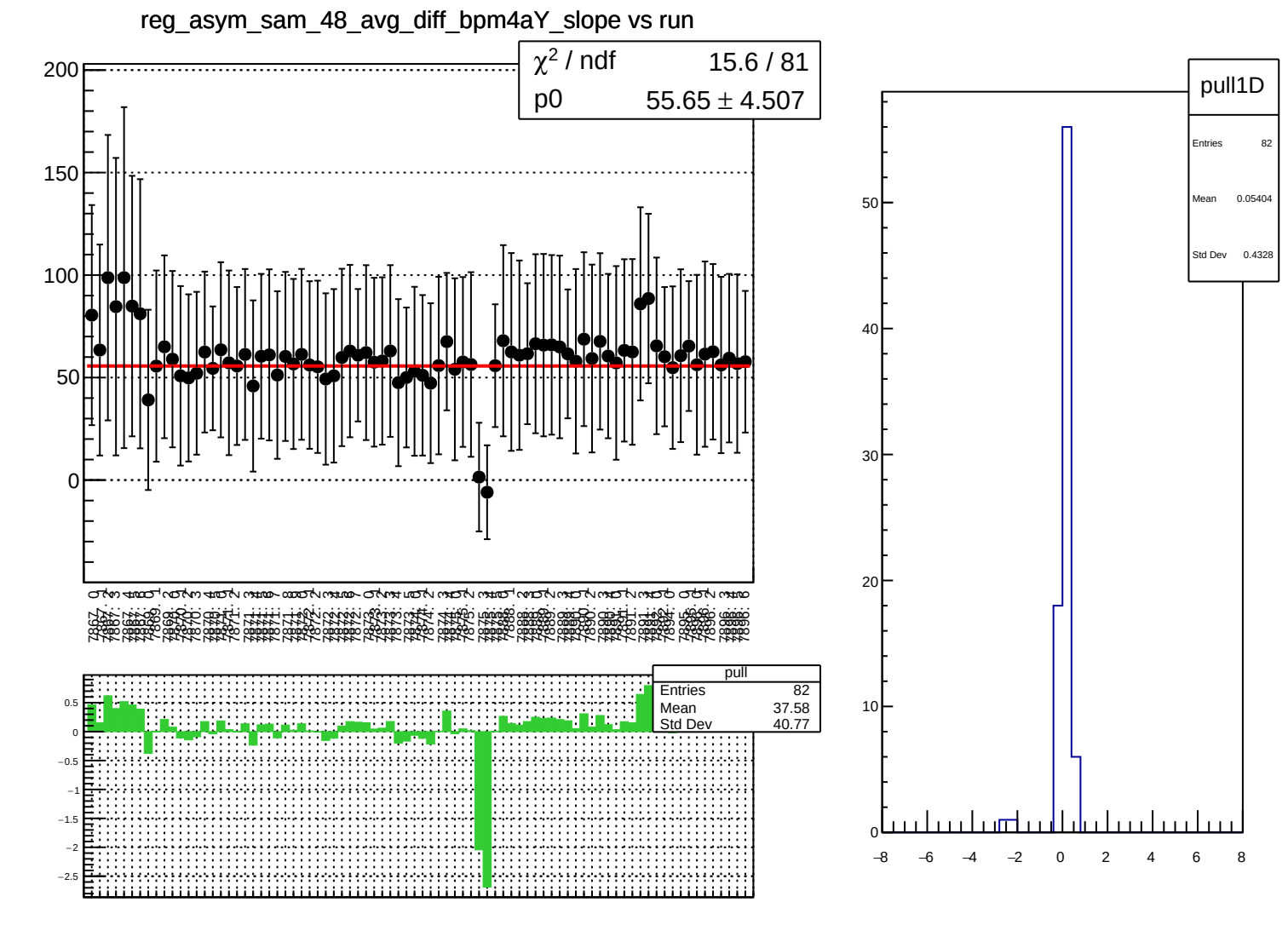

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.15 / 81
p0 −131.6 ± 5.885
pull
Entries 82
Mean 44.01
Std Dev 12.31
pull1D
Entries 82
Mean −0.03765
Std Dev 0.4557

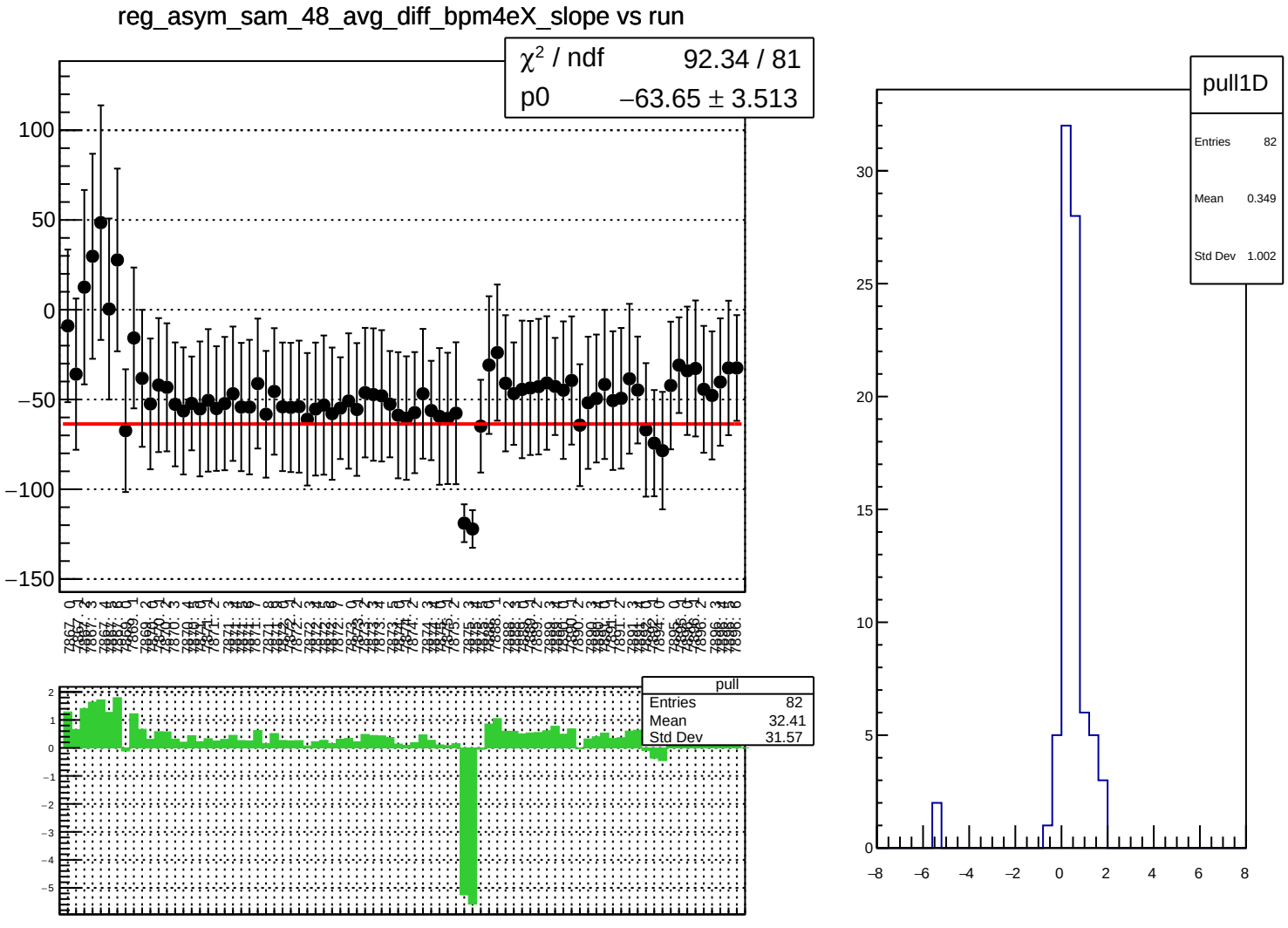

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.86 / 81
p0 −97.67 ± 4.529
pull
Entries 82
Mean 32.46
Std Dev 26.77
pull1D
Entries 82
Mean 0.1805
Std Dev 0.471

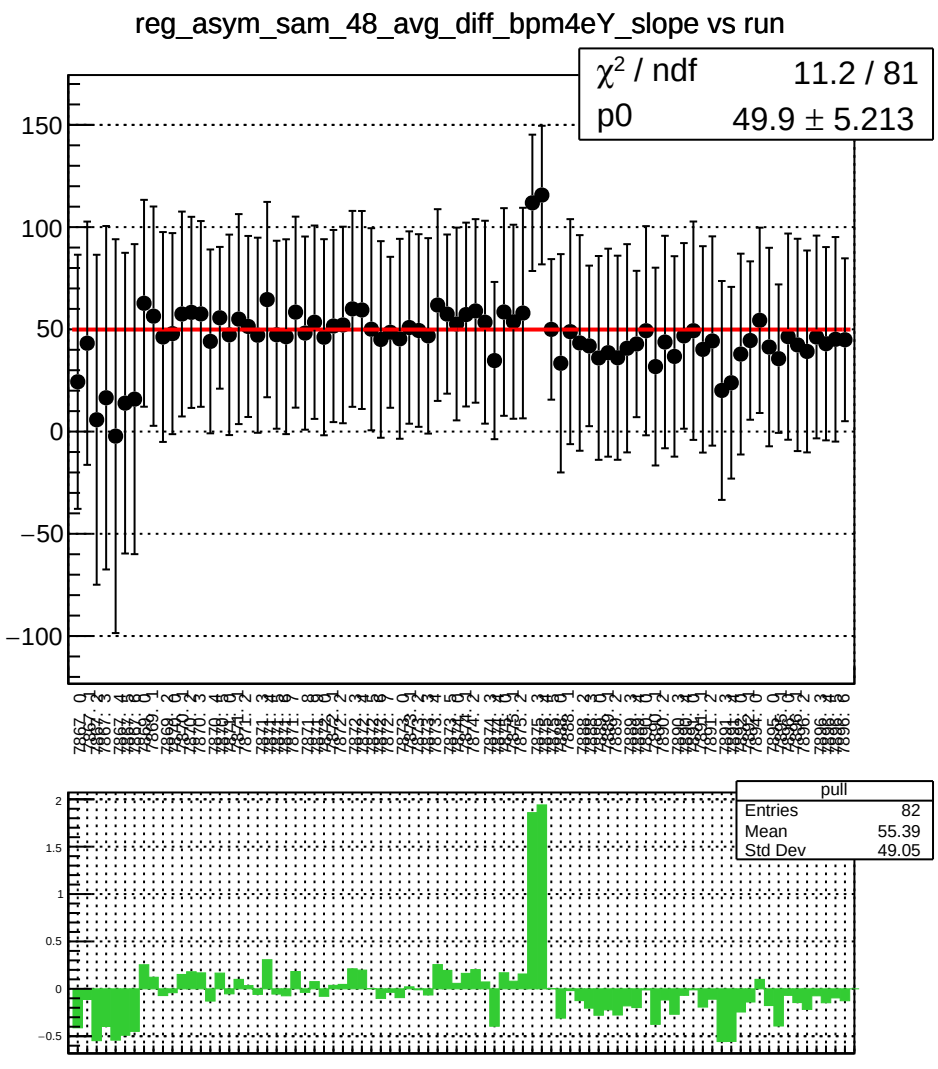

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.74 / 81
p0 −1.293 ± 6.819
100
50
0
−50
−100
−150
pull
Entries 82
Mean 120.6
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.008953
Std Dev 0.3617
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

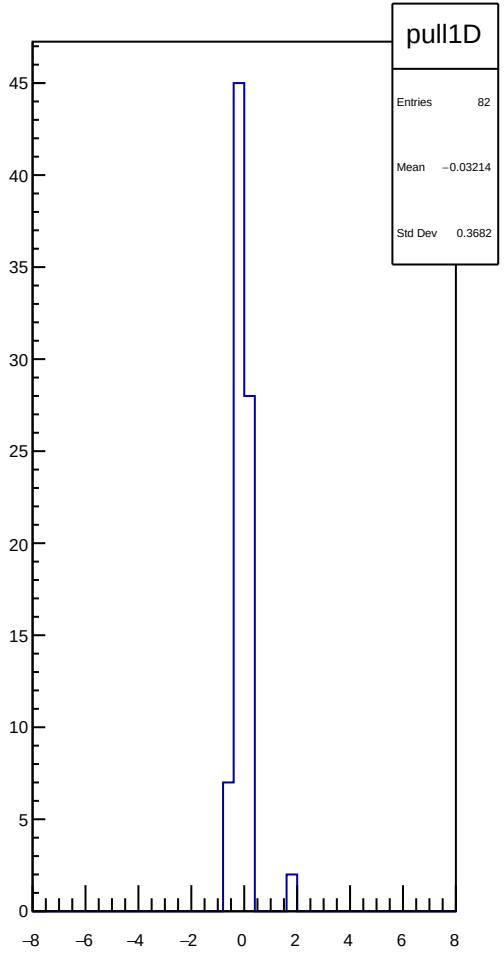

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.606 / 81
p0 0.8204 ± 0.2138
pull
Entries 82
Mean 106.4
Std Dev 0
pull1D
Entries 82
Mean −0.01431
Std Dev 0.2366

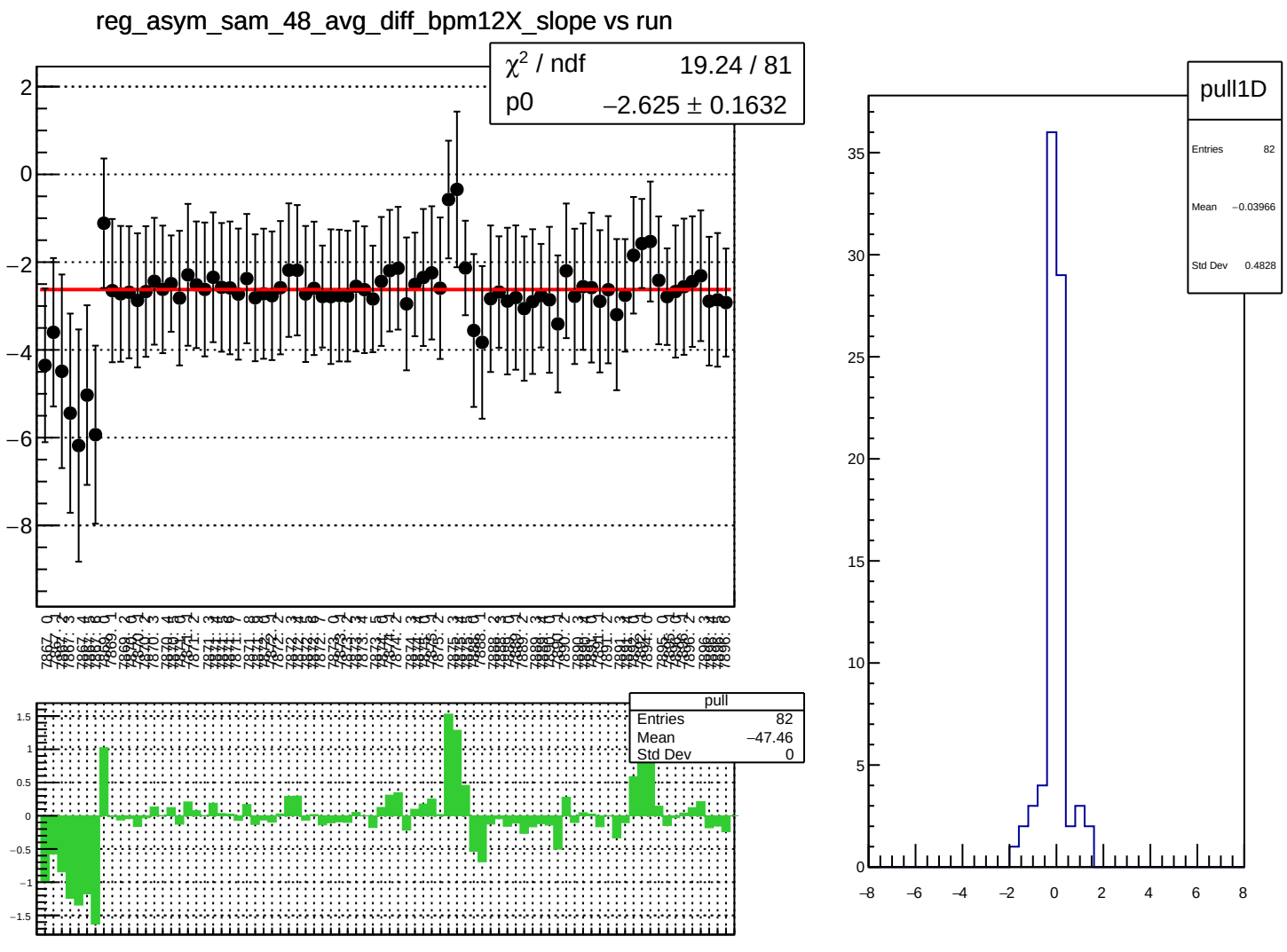

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 80.18 / 81
p0 −58.73 ± 4.129
pull
Entries 82
Mean 29.33
Std Dev 32.15
pull1D
Entries 82
Mean −0.2824
Std Dev 0.9476

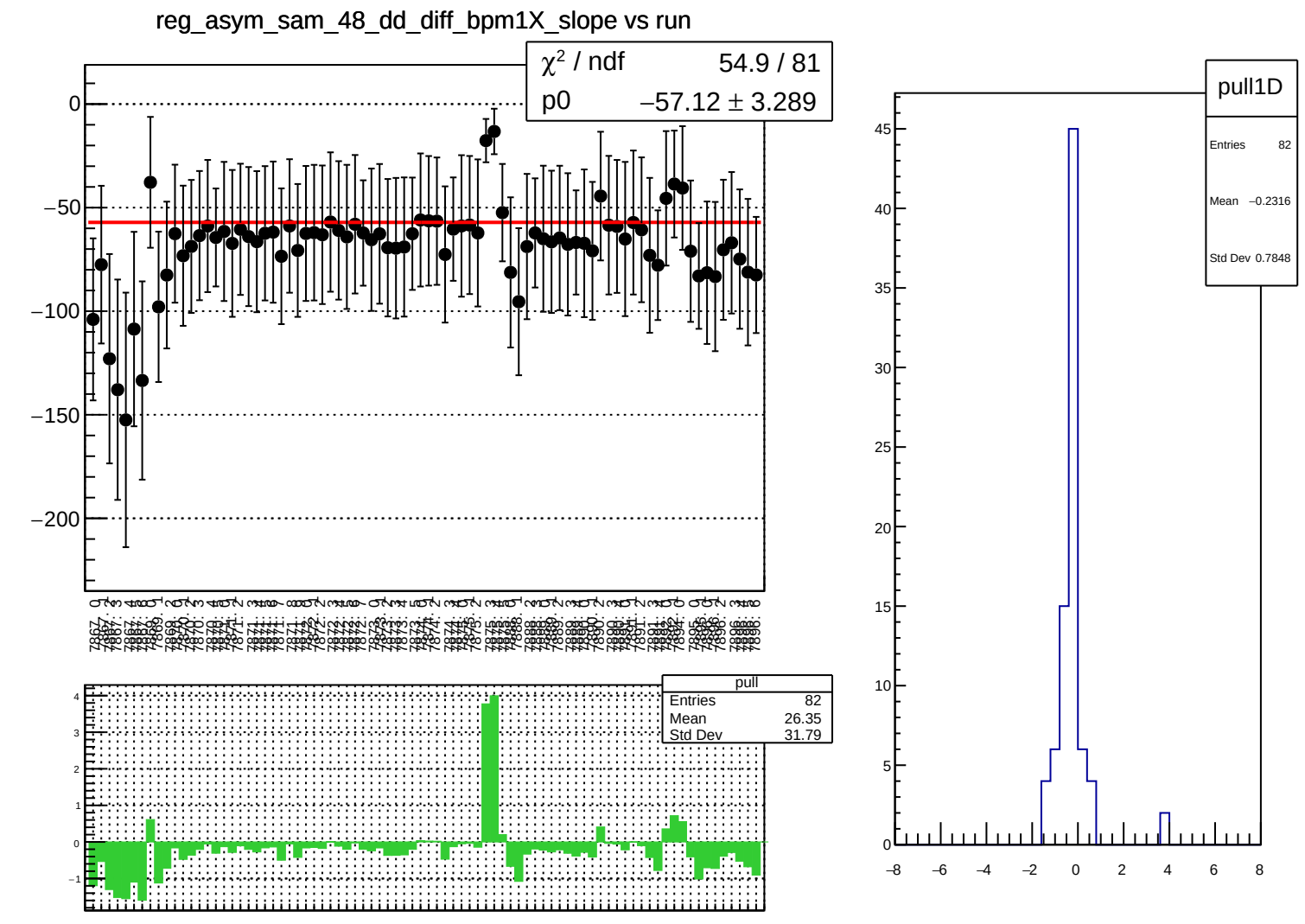

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.6 / 81
p0 55.65 ± 4.507
200
150
100
50
0
pull
Entries 82
Mean 37.58
Std Dev 40.77
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean 0.05404
Std Dev 0.4328
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

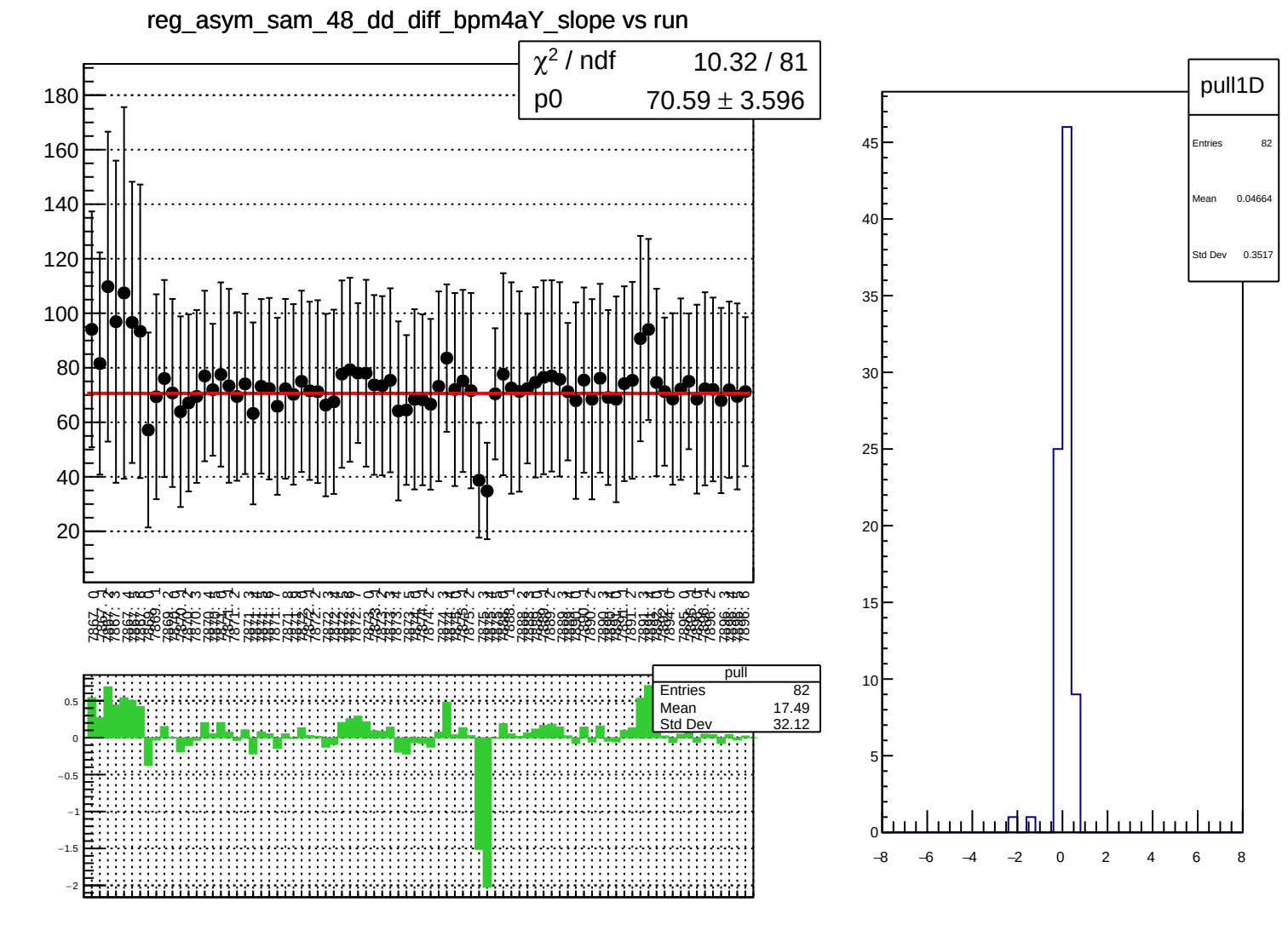

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.34 / 81
p0 −63.65 ± 3.513
pull
Entries 82
Mean 32.41
Std Dev 31.57
pull1D
Entries 82
Mean 0.349
Std Dev 1.002

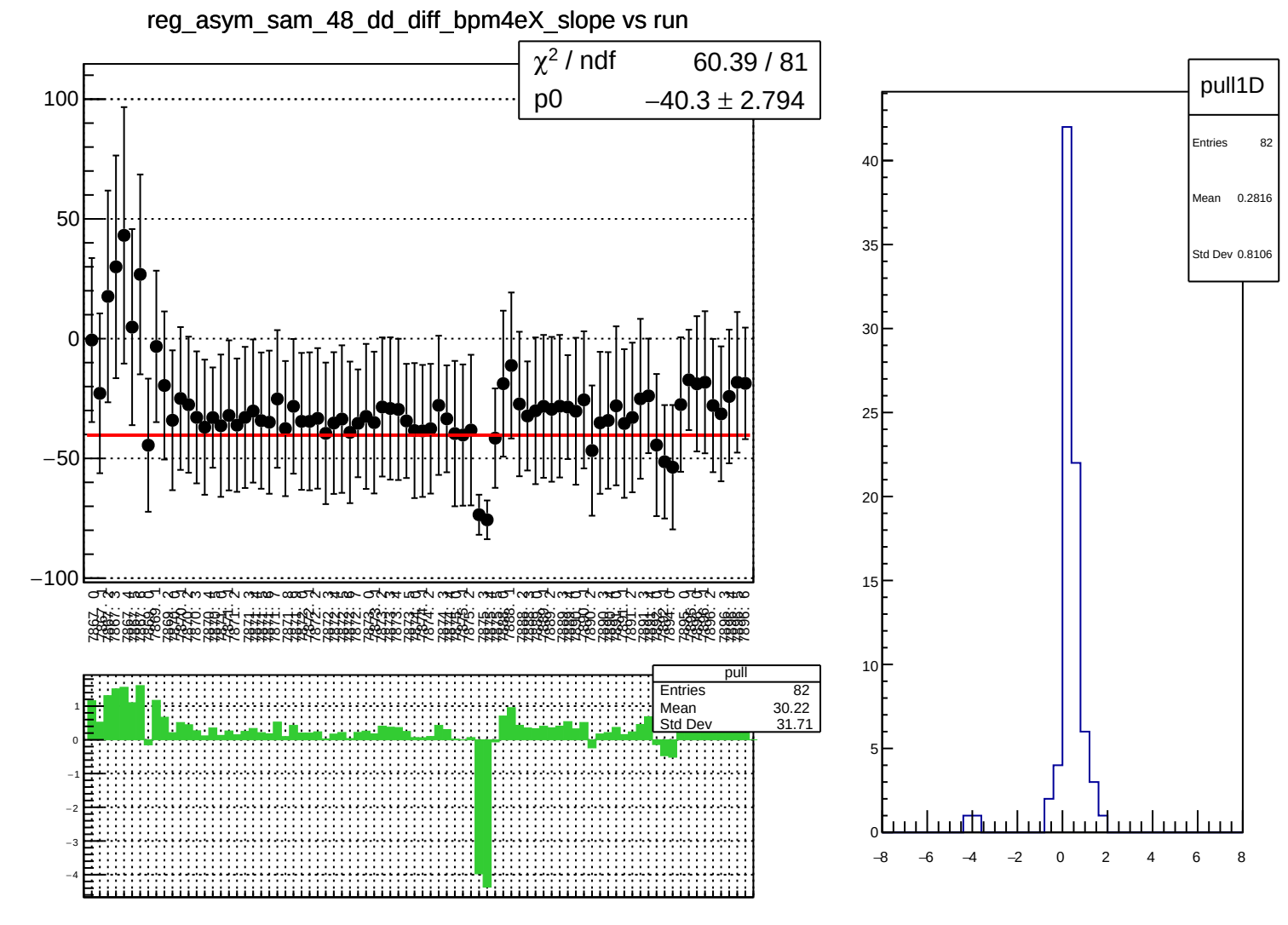

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.2 / 81
p0 49.9 ± 5.213
150
100
50
0
−50
−100
pull
Entries 82
Mean 55.39
Std Dev 49.05
2
1.5
1
0.5
0
−0.5

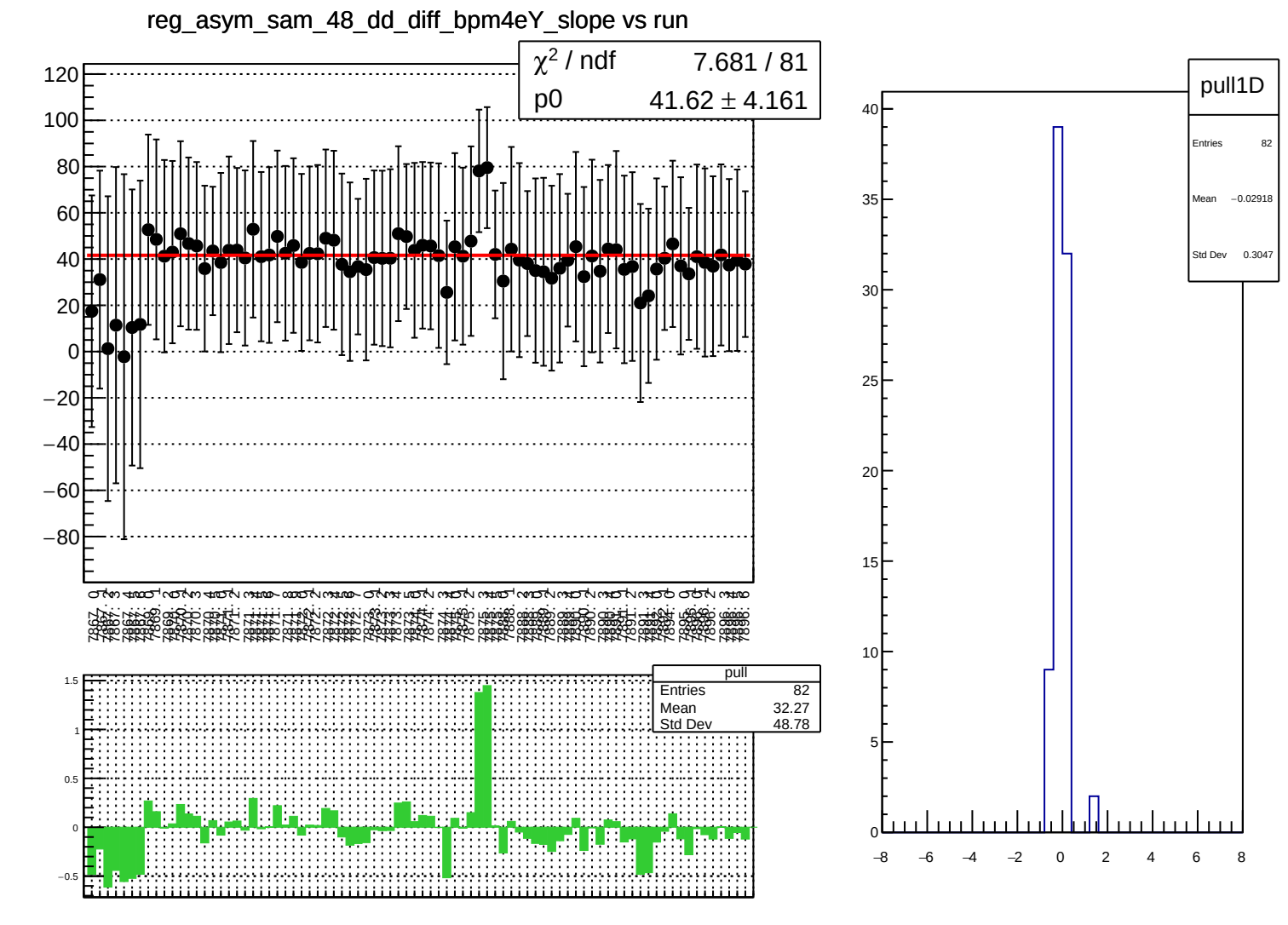

pull1D
Entries 82
Mean −0.03214
Std Dev 0.3682
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

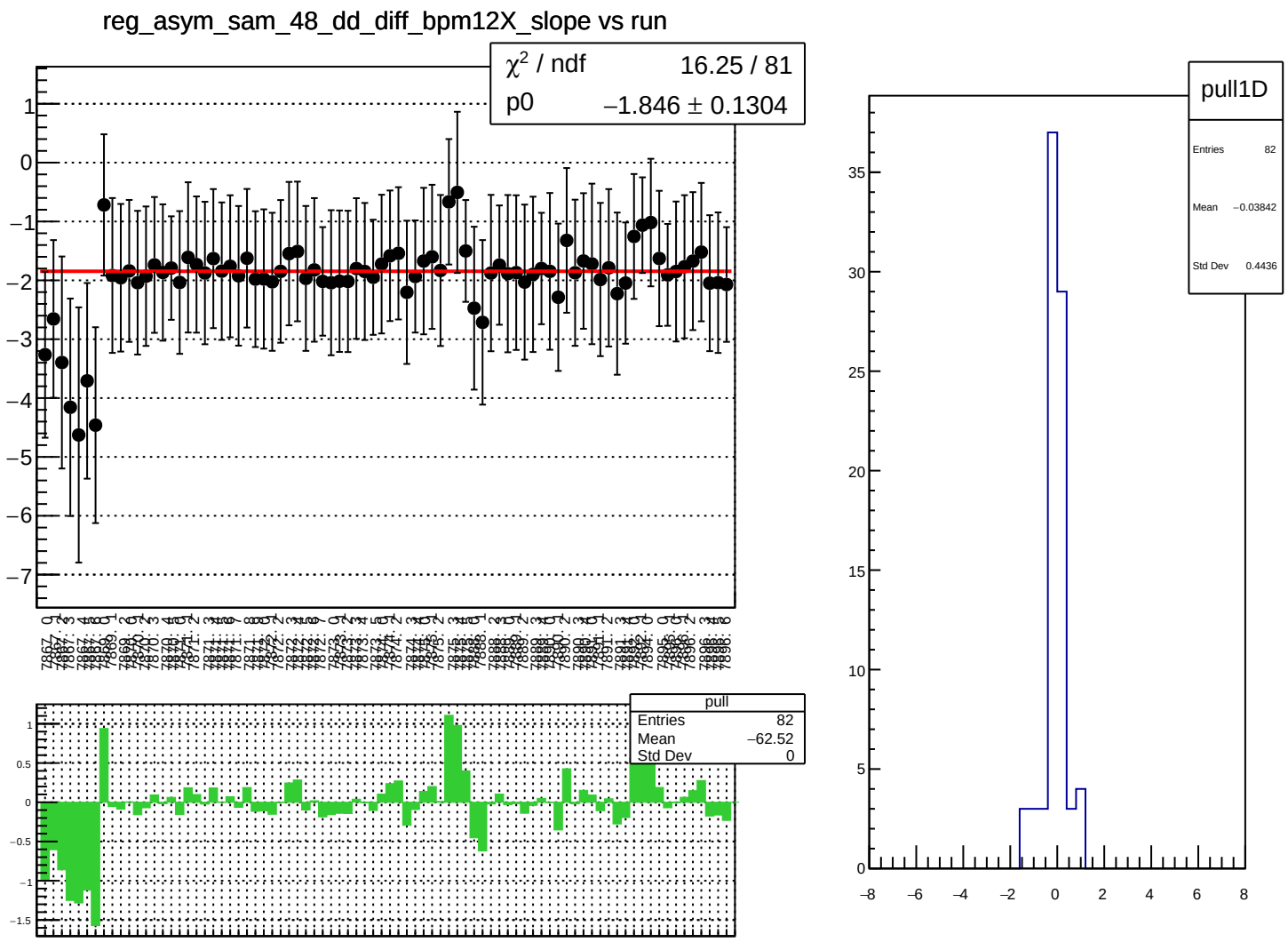

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 19.24 / 81
p0 −2.625 ± 0.1632
pull
Entries 82
Mean −47.46
Std Dev 0
pull1D
Entries 82
Mean −0.03966
Std Dev 0.4828

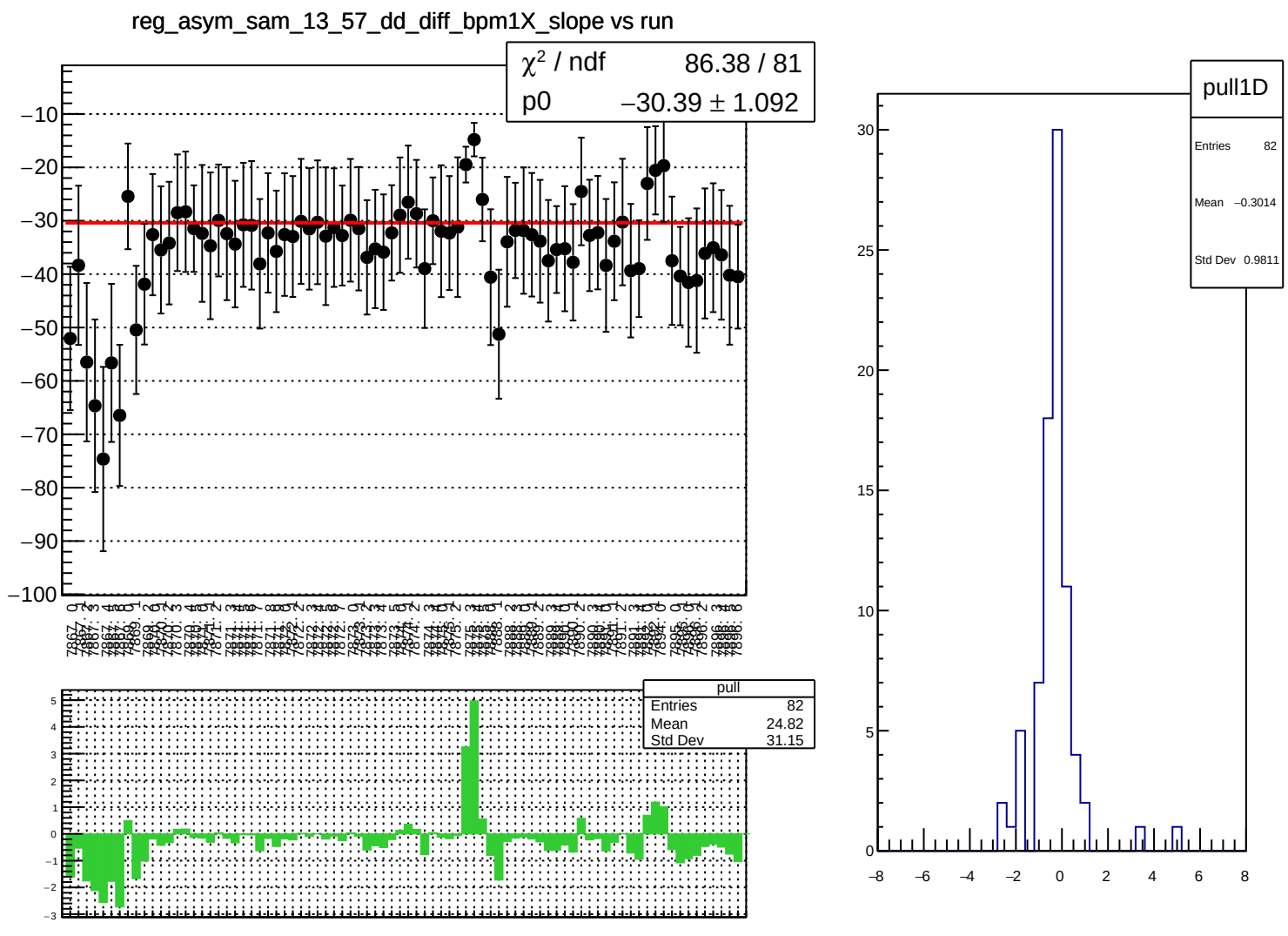

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 54.9 / 81
p0 −57.12 ± 3.289
pull
Entries 82
Mean 26.35
Std Dev 31.79
pull1D
Entries 82
Mean −0.2316
Std Dev 0.7848

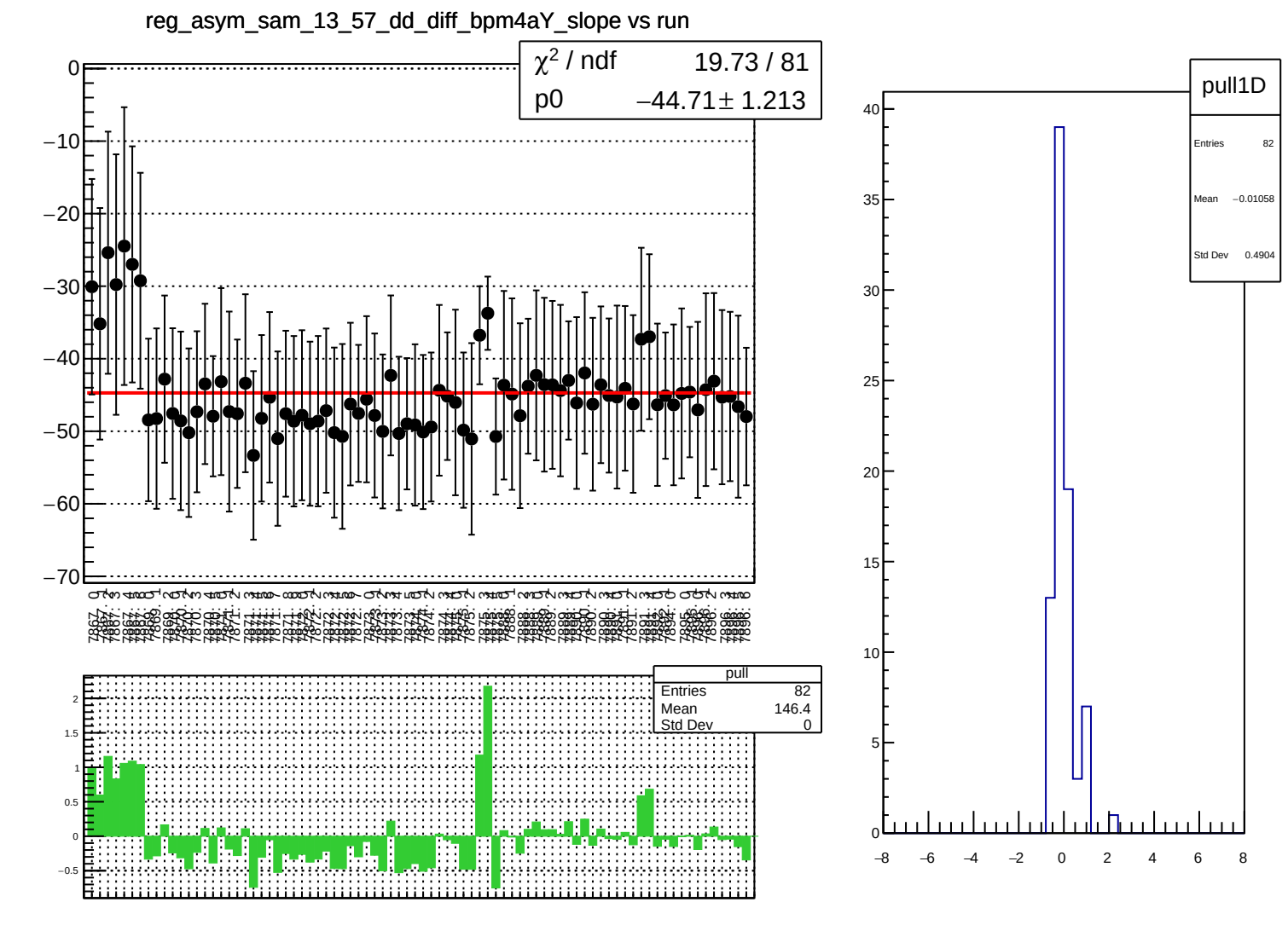

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.32 / 81
p0 70.59 ± 3.596
pull
Entries 82
Mean 17.49
Std Dev 32.12
pull1D
Entries 82
Mean 0.04664
Std Dev 0.3517

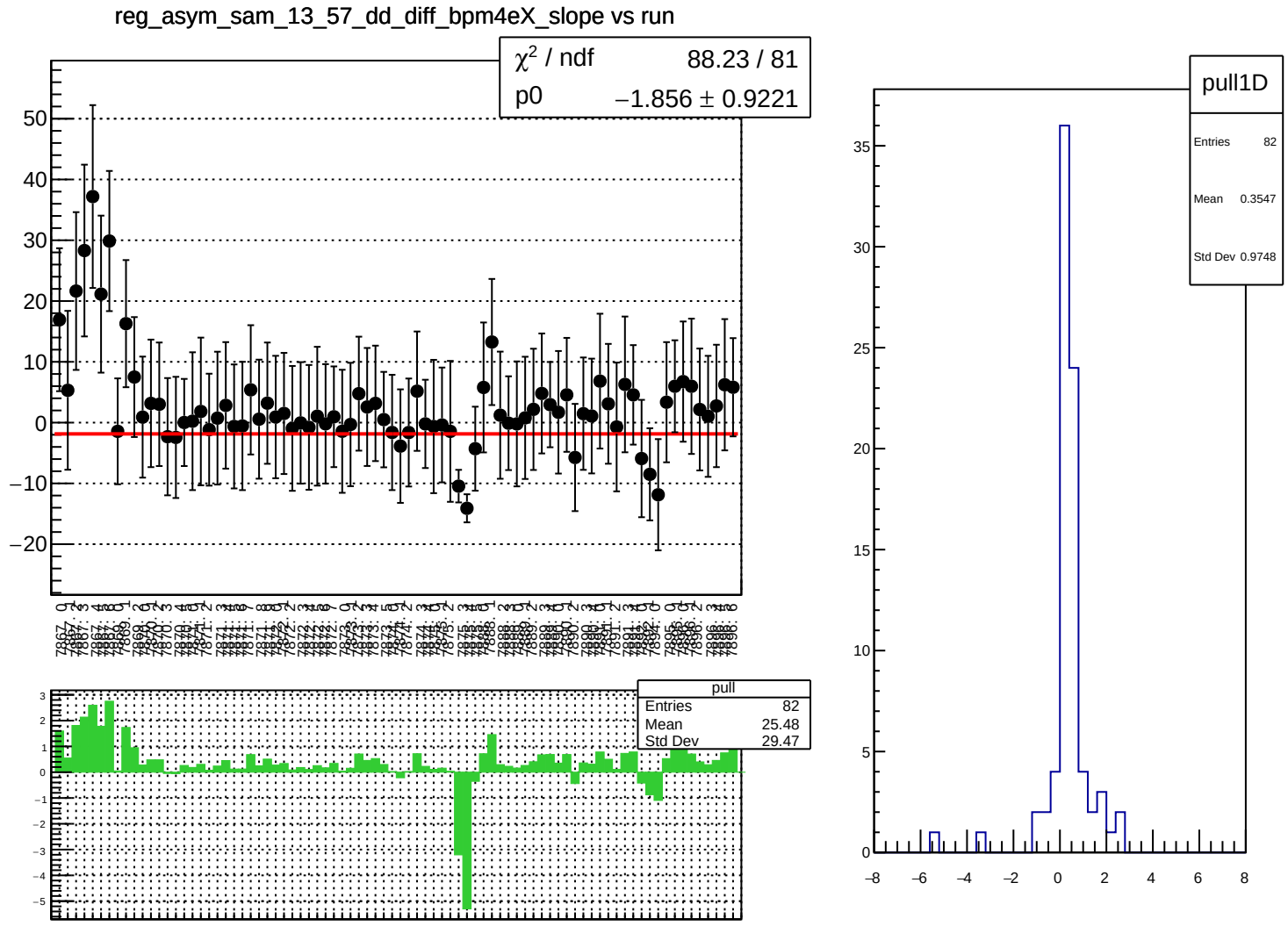

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.39 / 81
p0 −40.3 ± 2.794
pull
Entries 82
Mean 30.22
Std Dev 31.71
pull1D
Entries 82
Mean 0.2816
Std Dev 0.8106

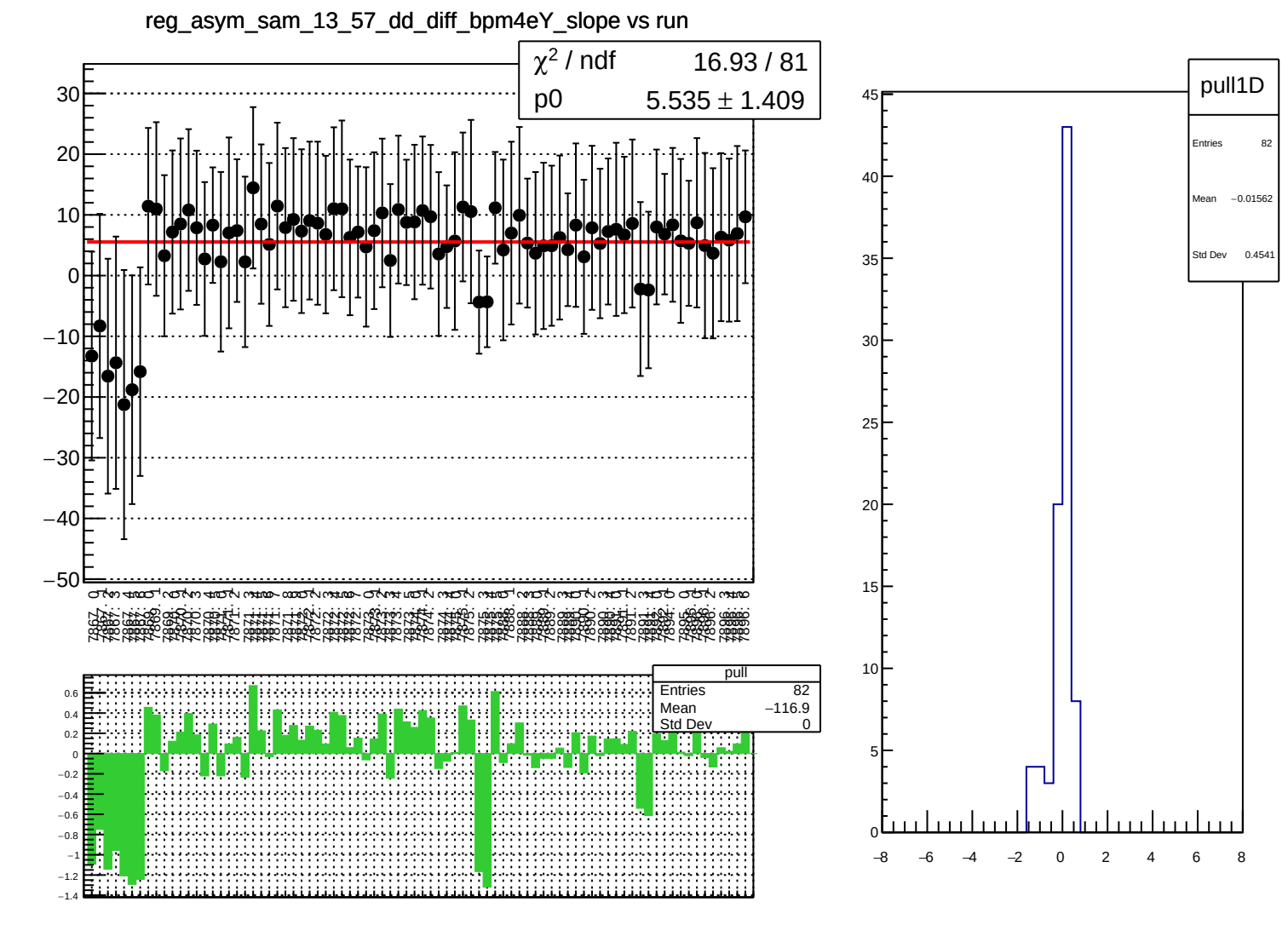

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.681 / 81
p0 41.62 ± 4.161
pull
Entries 82
Mean 32.27
Std Dev 48.78
pull1D
Entries 82
Mean −0.02918
Std Dev 0.3047

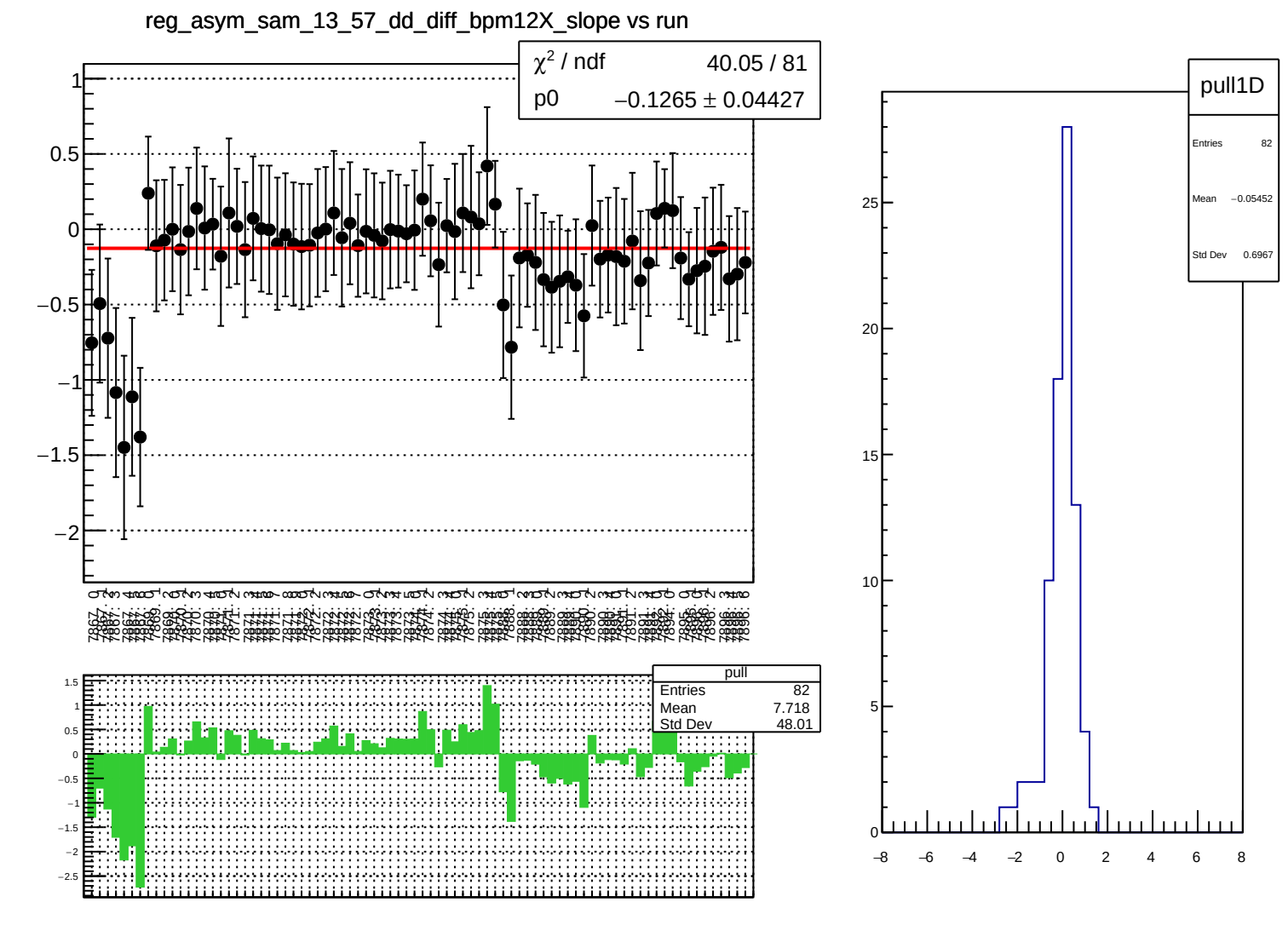

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.25 / 81
p0 −1.846 ± 0.1304
pull
Entries 82
Mean −62.52
Std Dev 0
pull1D
Entries 82
Mean −0.03842
Std Dev 0.4436

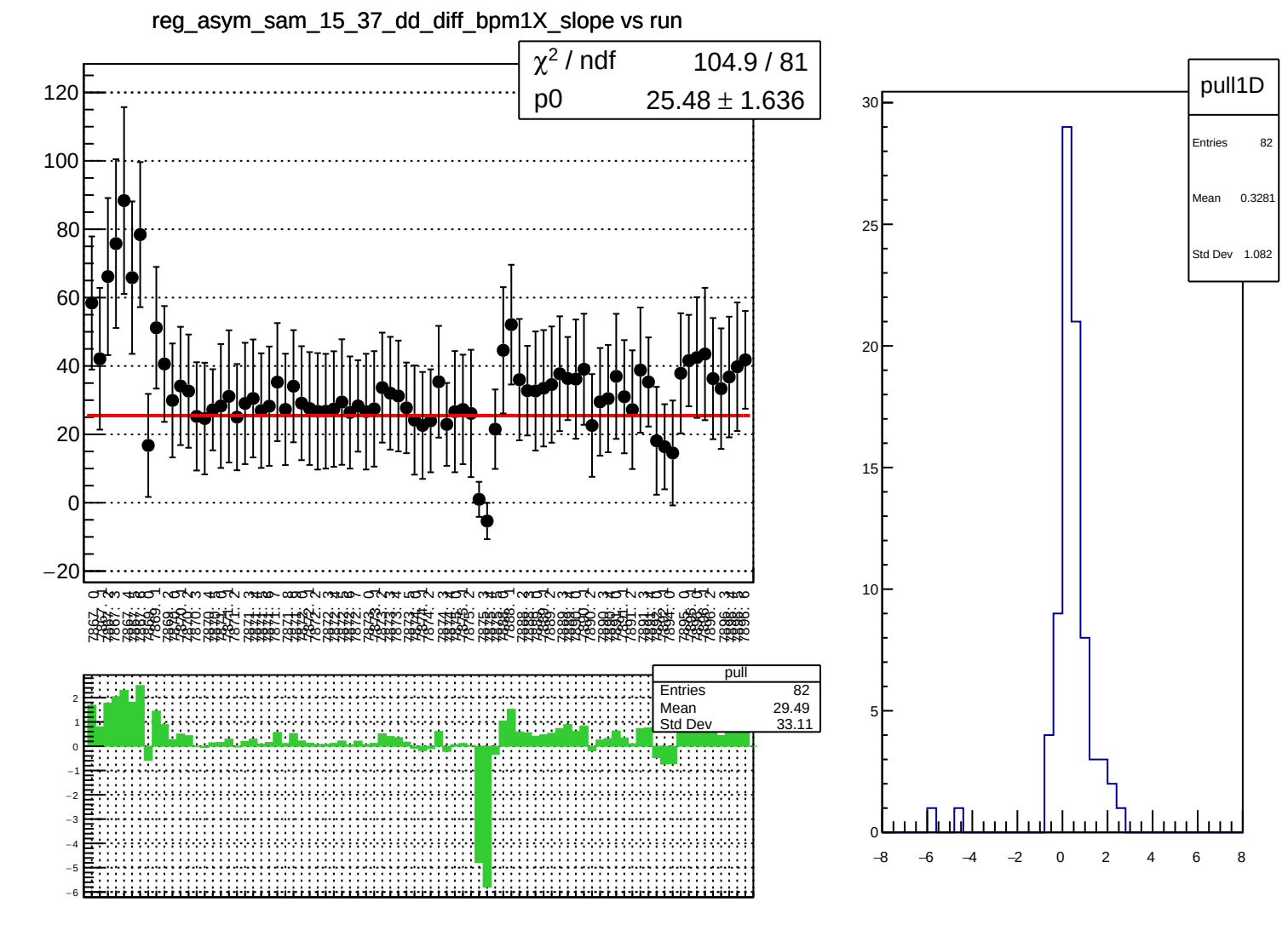

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 86.38 / 81
p0 −30.39 ± 1.092
pull
Entries 82
Mean 24.82
Std Dev 31.15
pull1D
Entries 82
Mean −0.3014
Std Dev 0.9811

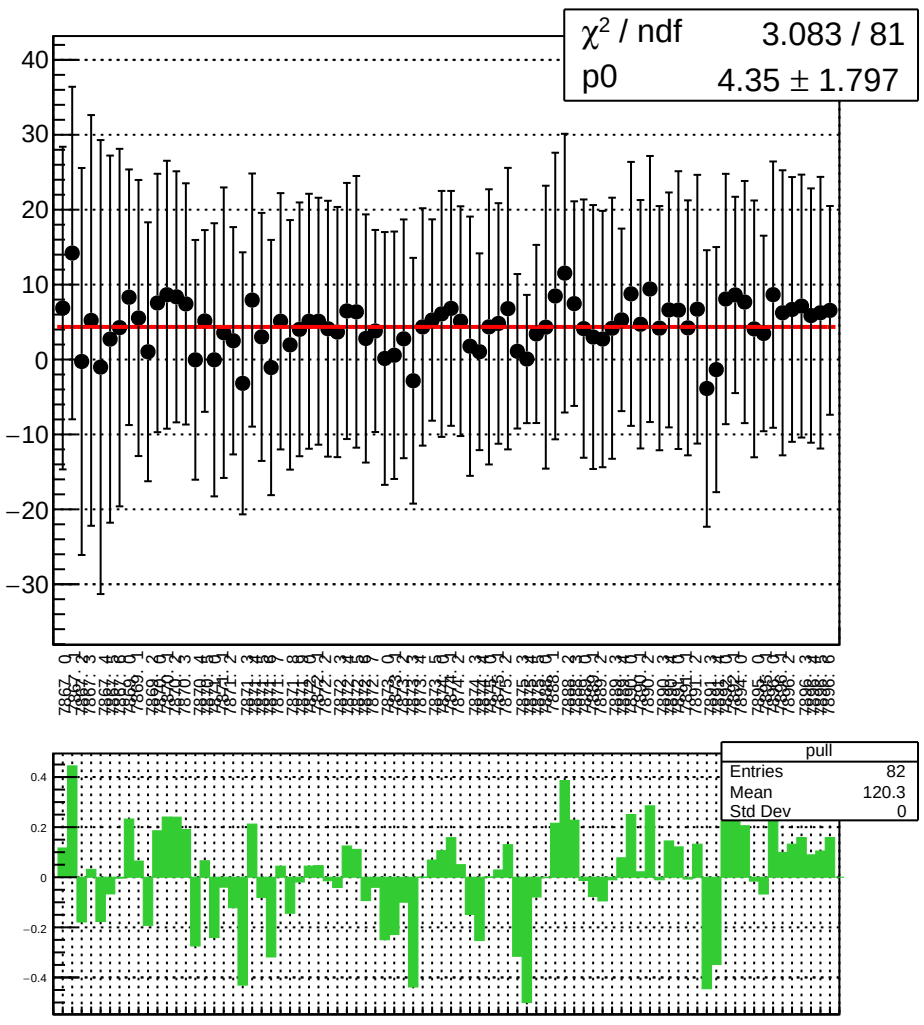

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.73 / 81
p0 −44.71 ± 1.213
pull
Entries 82
Mean 146.4
Std Dev 0
pull1D
Entries 82
Mean −0.01058
Std Dev 0.4904

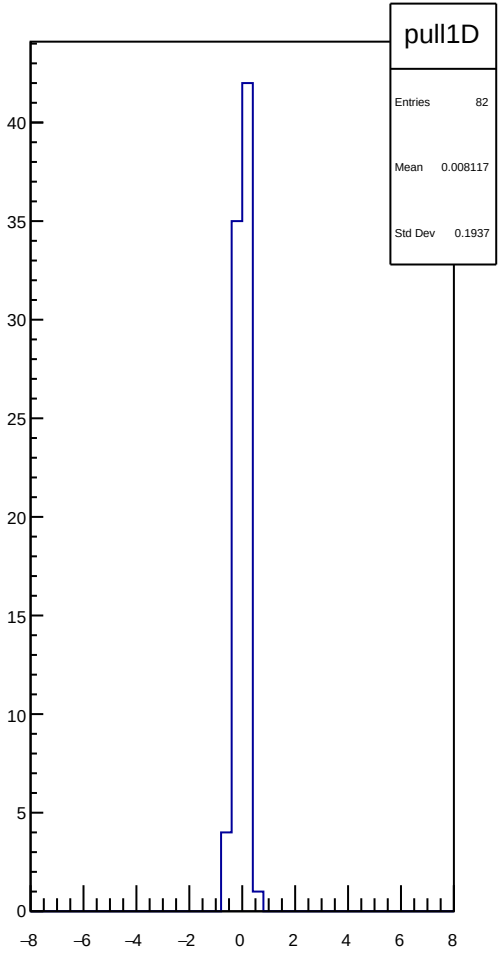

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.23 / 81
p0 −1.856 ± 0.9221
pull
Entries 82
Mean 25.48
Std Dev 29.47
pull1D
Entries 82
Mean 0.3547
Std Dev 0.9748

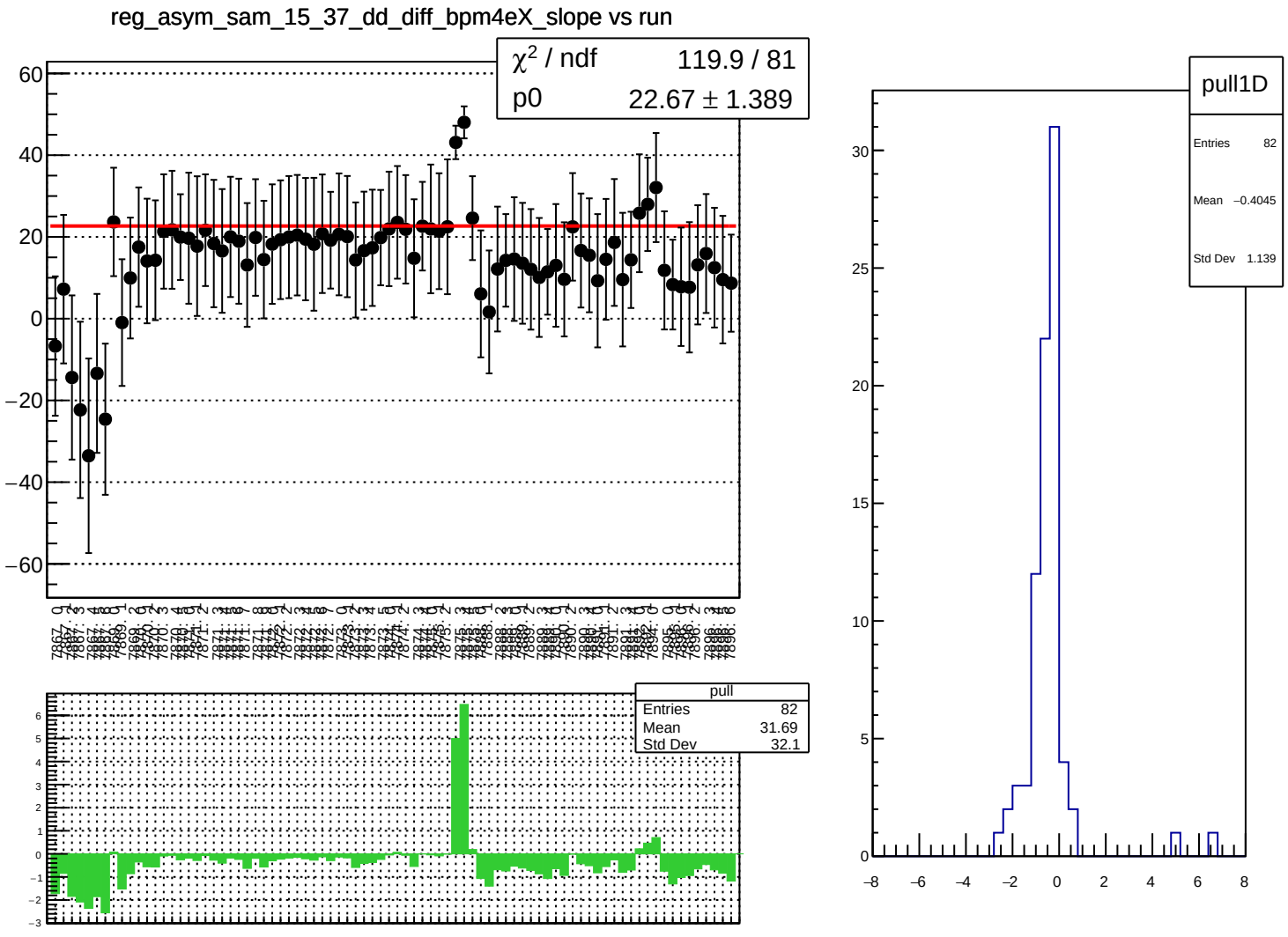

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.93 / 81
p0 5.535 ± 1.409
pull
Entries 82
Mean −116.9
Std Dev 0
pull1D
Entries 82
Mean −0.01562
Std Dev 0.4541

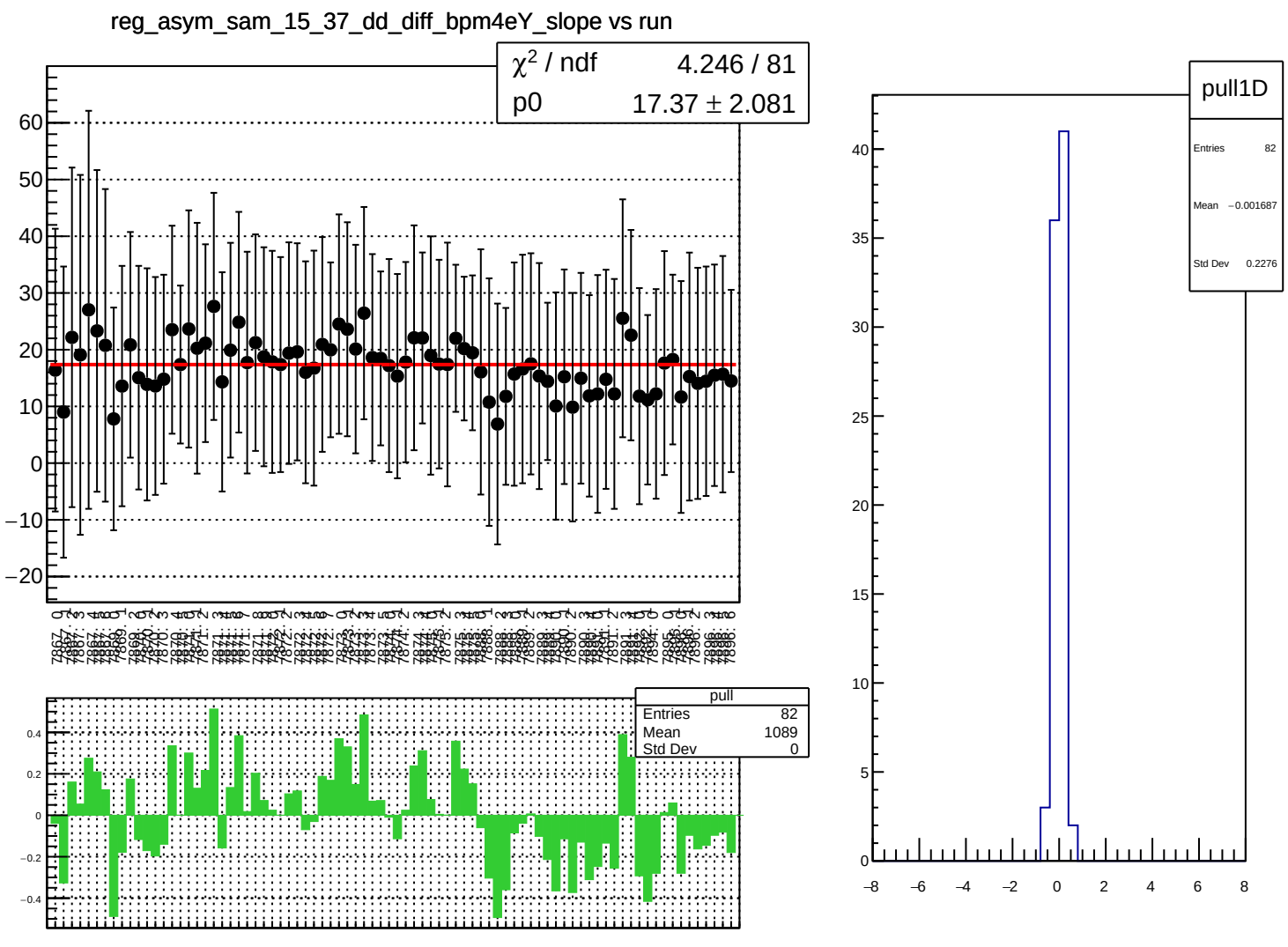

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 40.05 / 81
p0 −0.1265 ± 0.04427
pull
Entries 82
Mean 7.718
Std Dev 48.01
pull1D
Entries 82
Mean −0.05452
Std Dev 0.6967

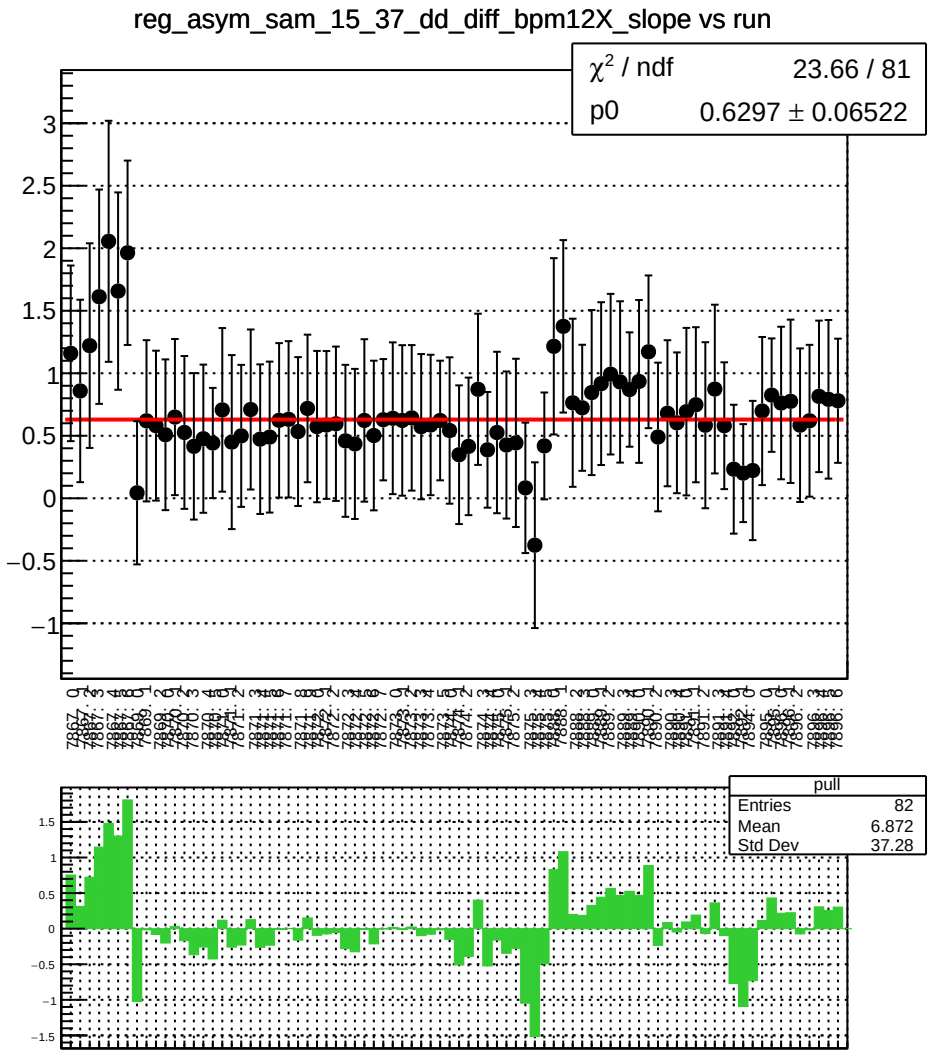

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 104.9 / 81
p0 25.48 ± 1.636
pull
Entries 82
Mean 29.49
Std Dev 33.11
pull1D
Entries 82
Mean 0.3281
Std Dev 1.082

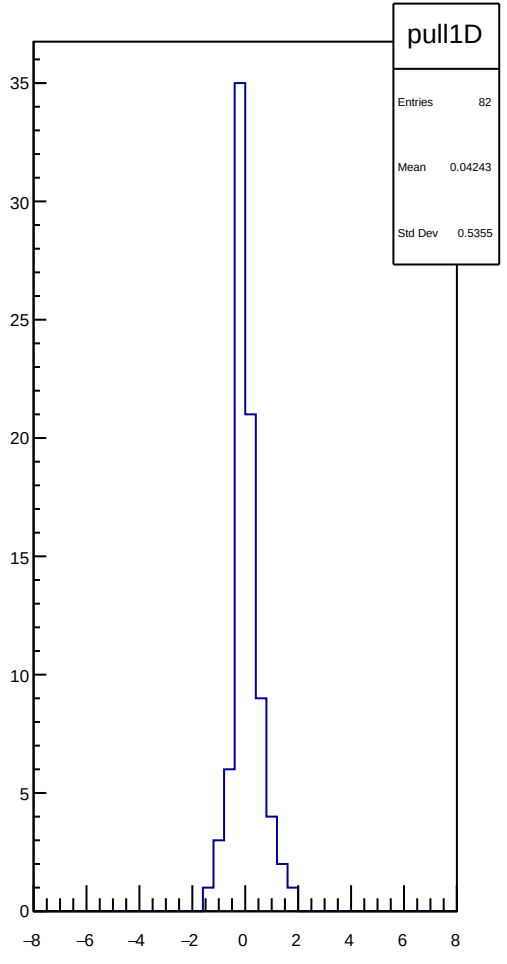

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.083 / 81
p0 4.35 ± 1.797
pull
Entries 82
Mean 120.3
Std Dev 0

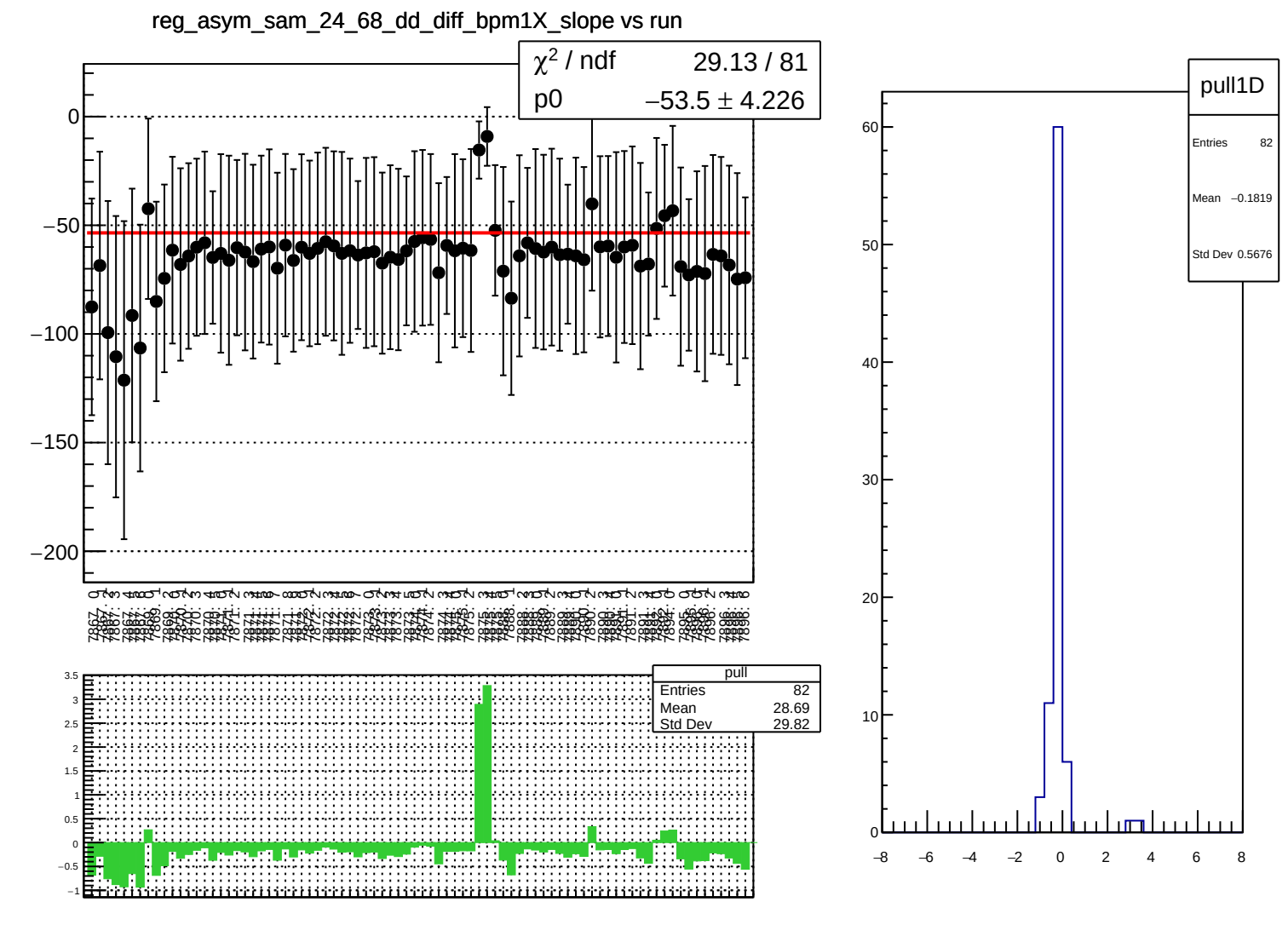

pull1D
Entries 82
Mean 0.008117
Std Dev 0.1937

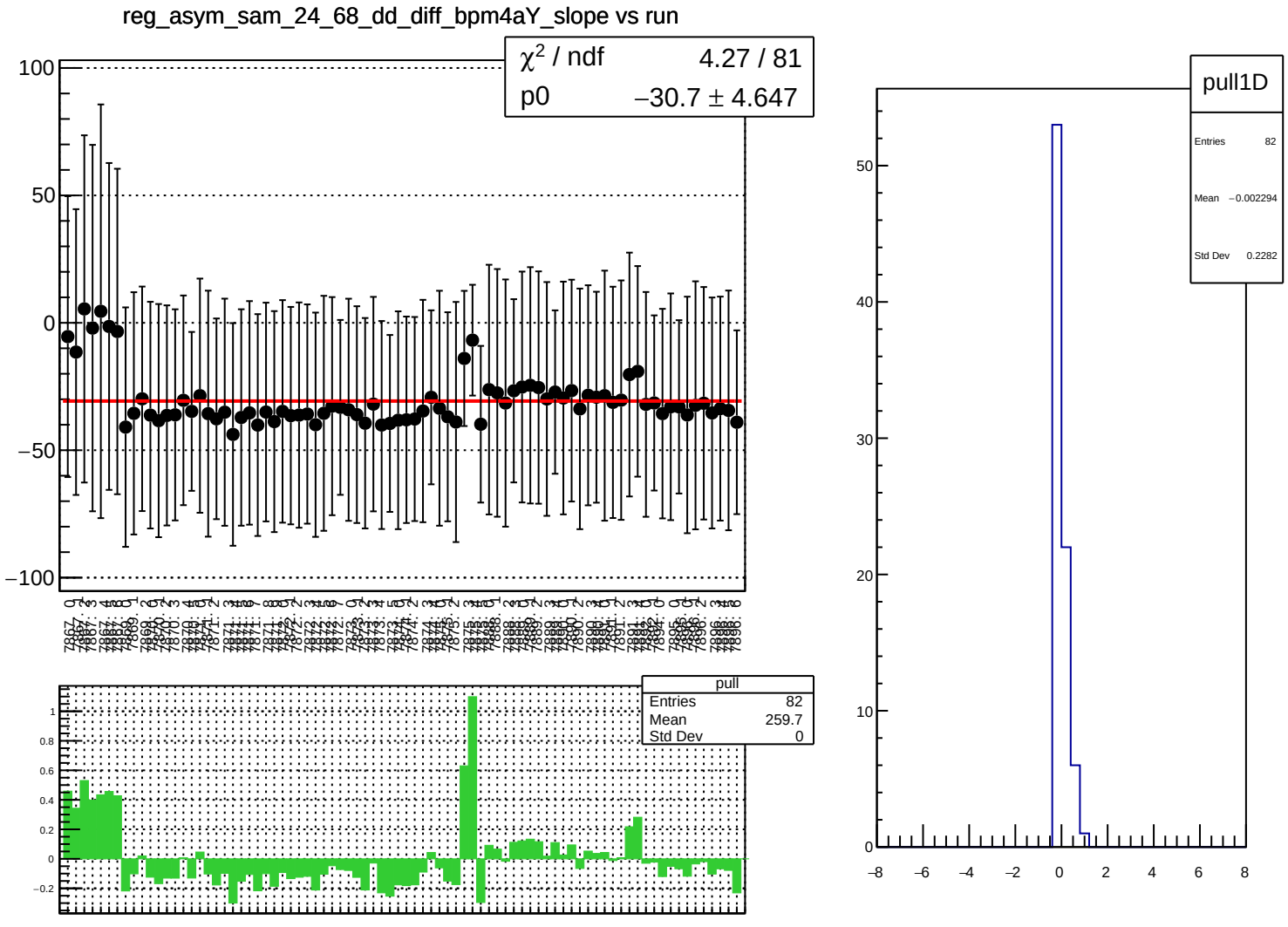

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 119.9 / 81
p0 22.67 ± 1.389
pull
Entries 82
Mean 31.69
Std Dev 32.1
pull1D
Entries 82
Mean −0.4045
Std Dev 1.139

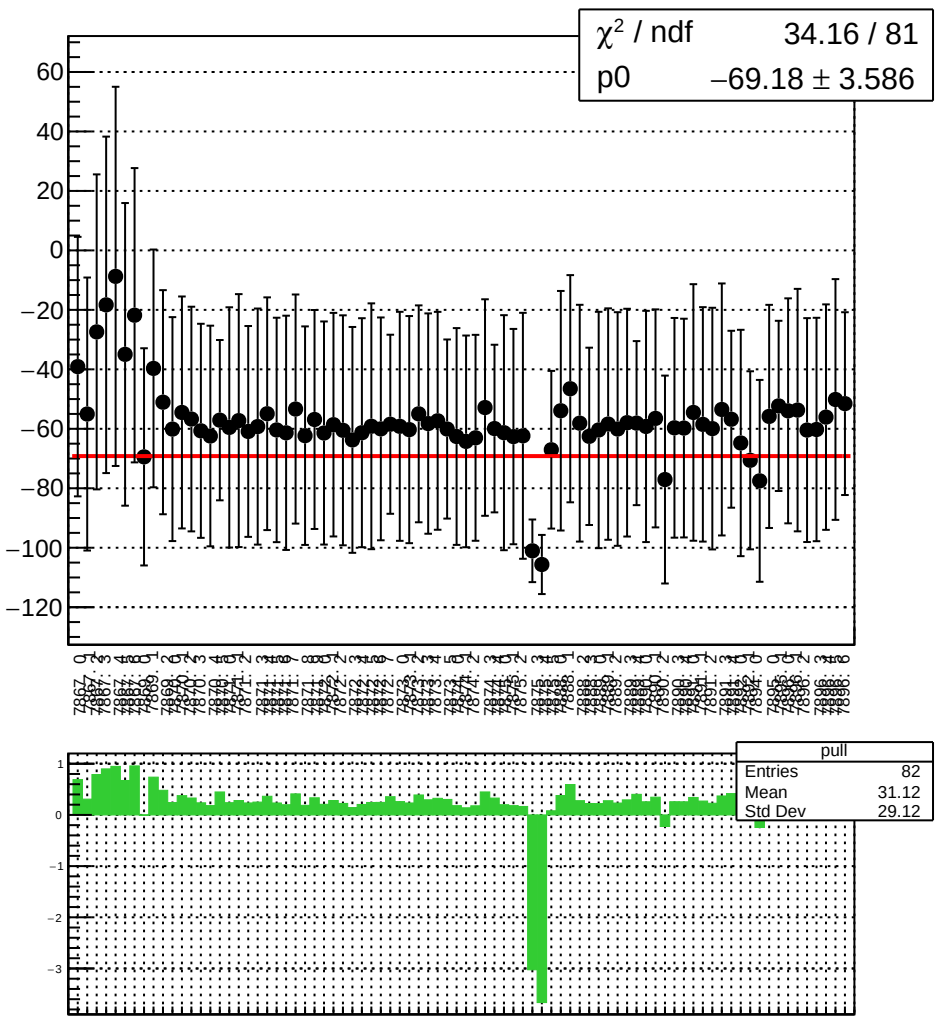

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.246 / 81
p0 17.37 ± 2.081
pull
Entries 82
Mean 1089
Std Dev 0
pull1D
Entries 82
Mean −0.001687
Std Dev 0.2276

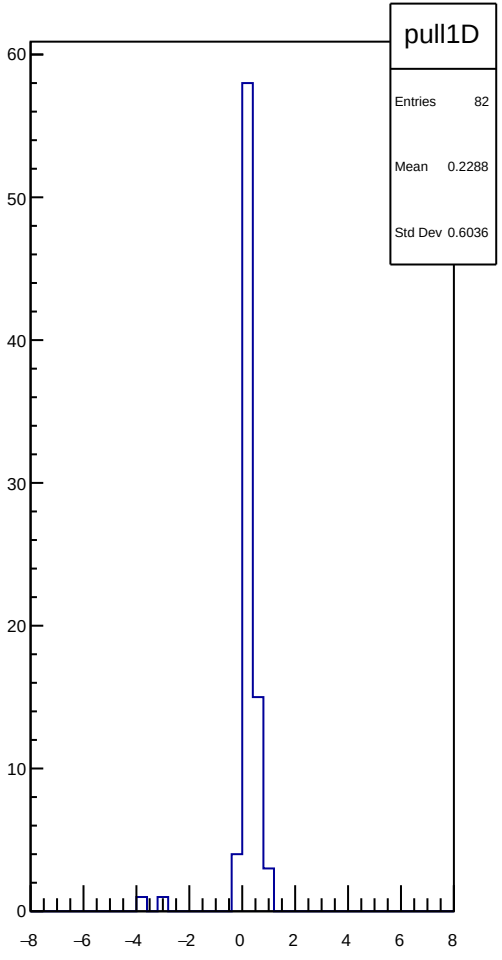

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 23.66 / 81
p0 0.6297 ± 0.06522
pull
Entries 82
Mean 6.872
Std Dev 37.28

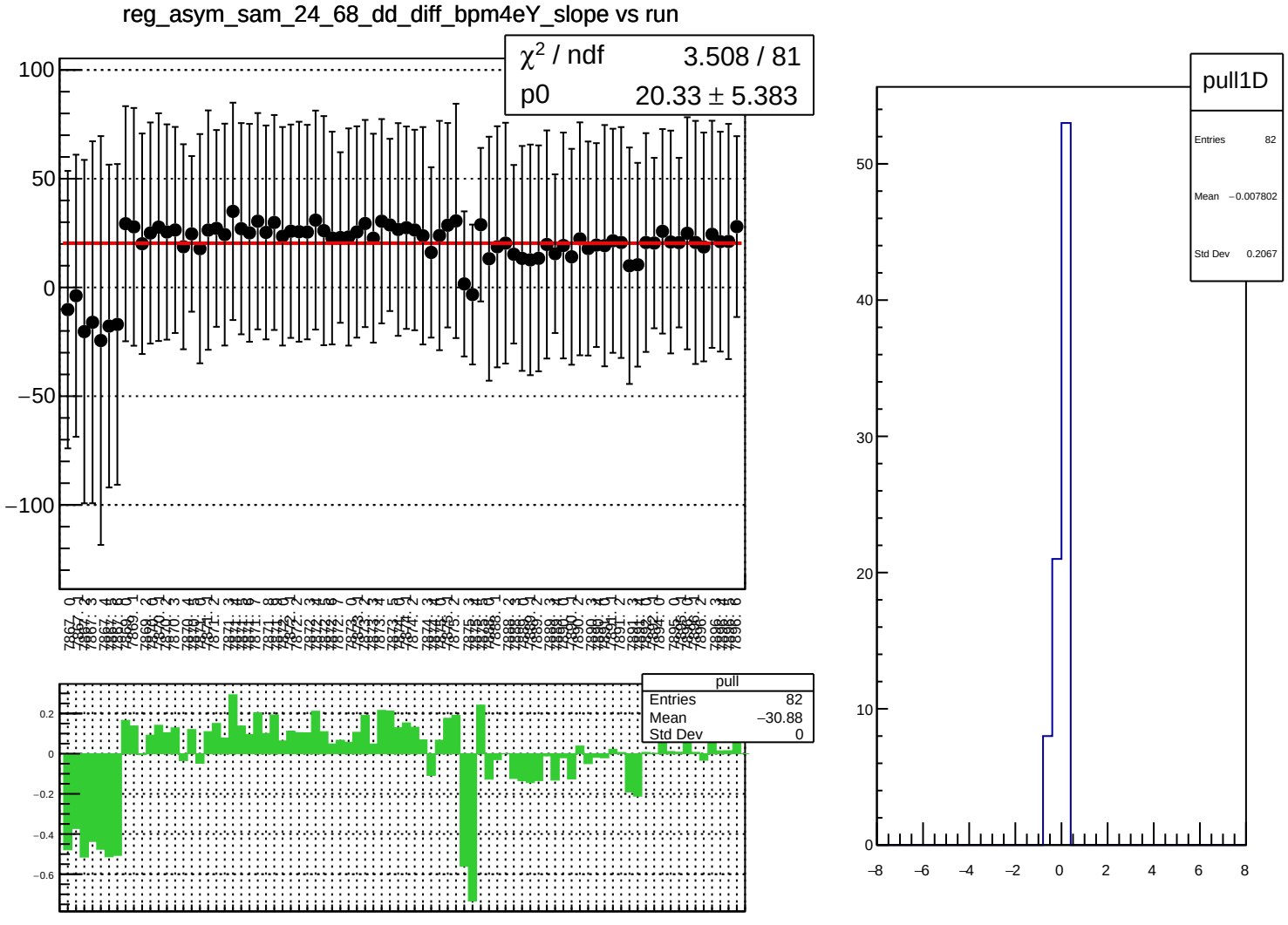

pull1D
Entries 82
Mean 0.04243
Std Dev 0.5355

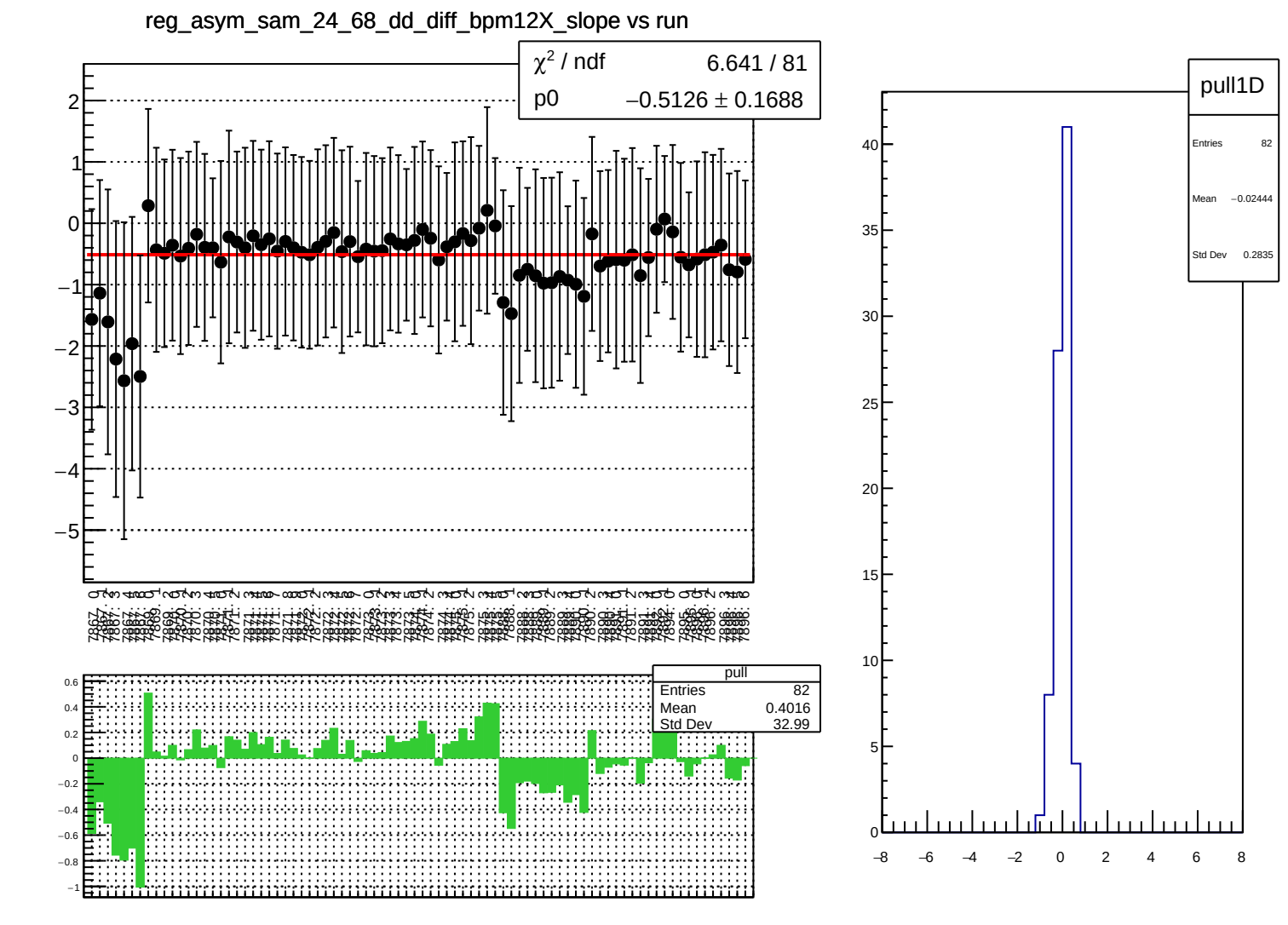

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 29.13 / 81
p0 −53.5 ± 4.226
pull
Entries 82
Mean 28.69
Std Dev 29.82
pull1D
Entries 82
Mean −0.1819
Std Dev 0.5676

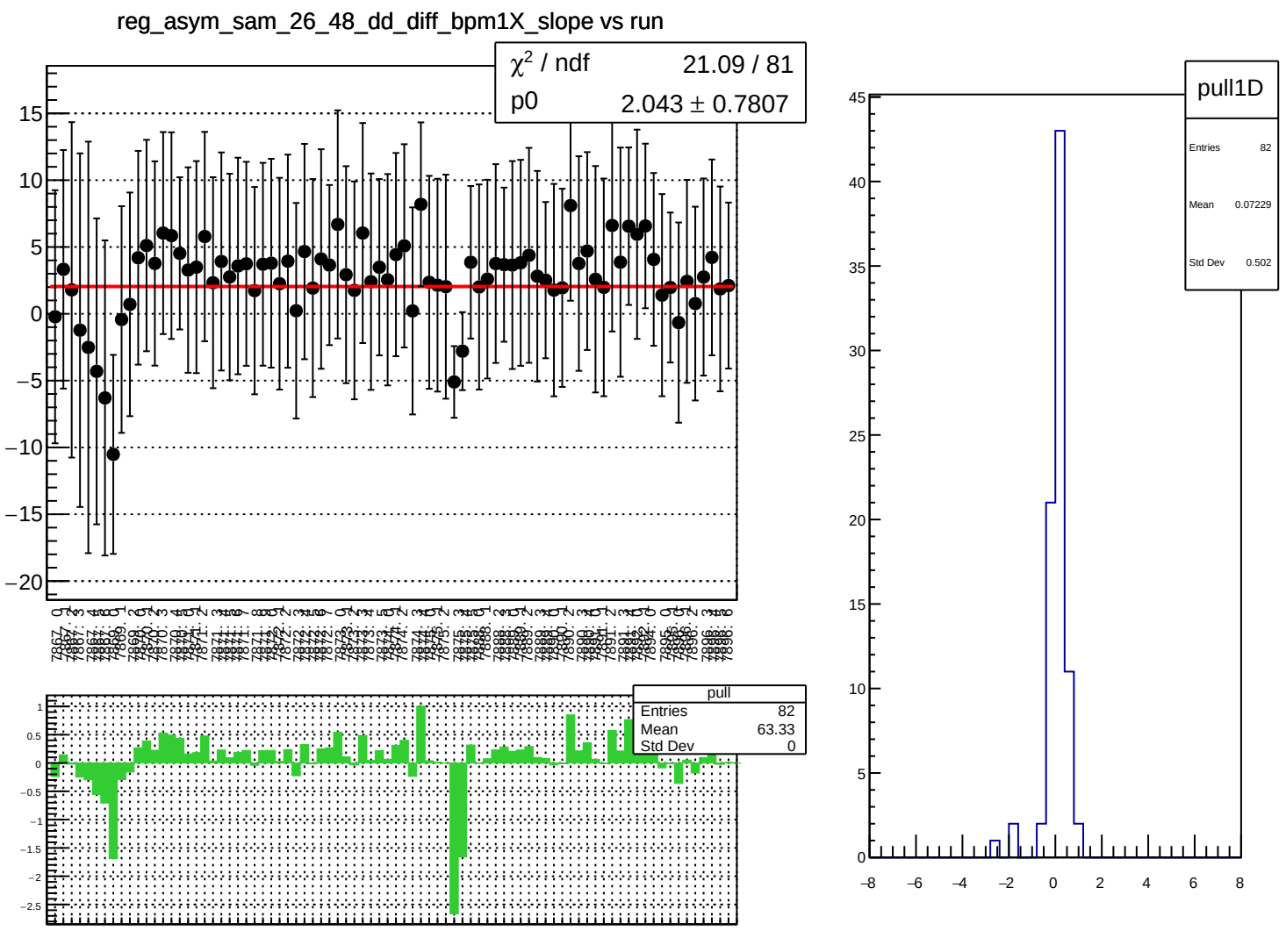

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.27 / 81
p0 −30.7 ± 4.647
pull
Entries 82
Mean 259.7
Std Dev 0
pull1D
Entries 82
Mean −0.002294
Std Dev 0.2282

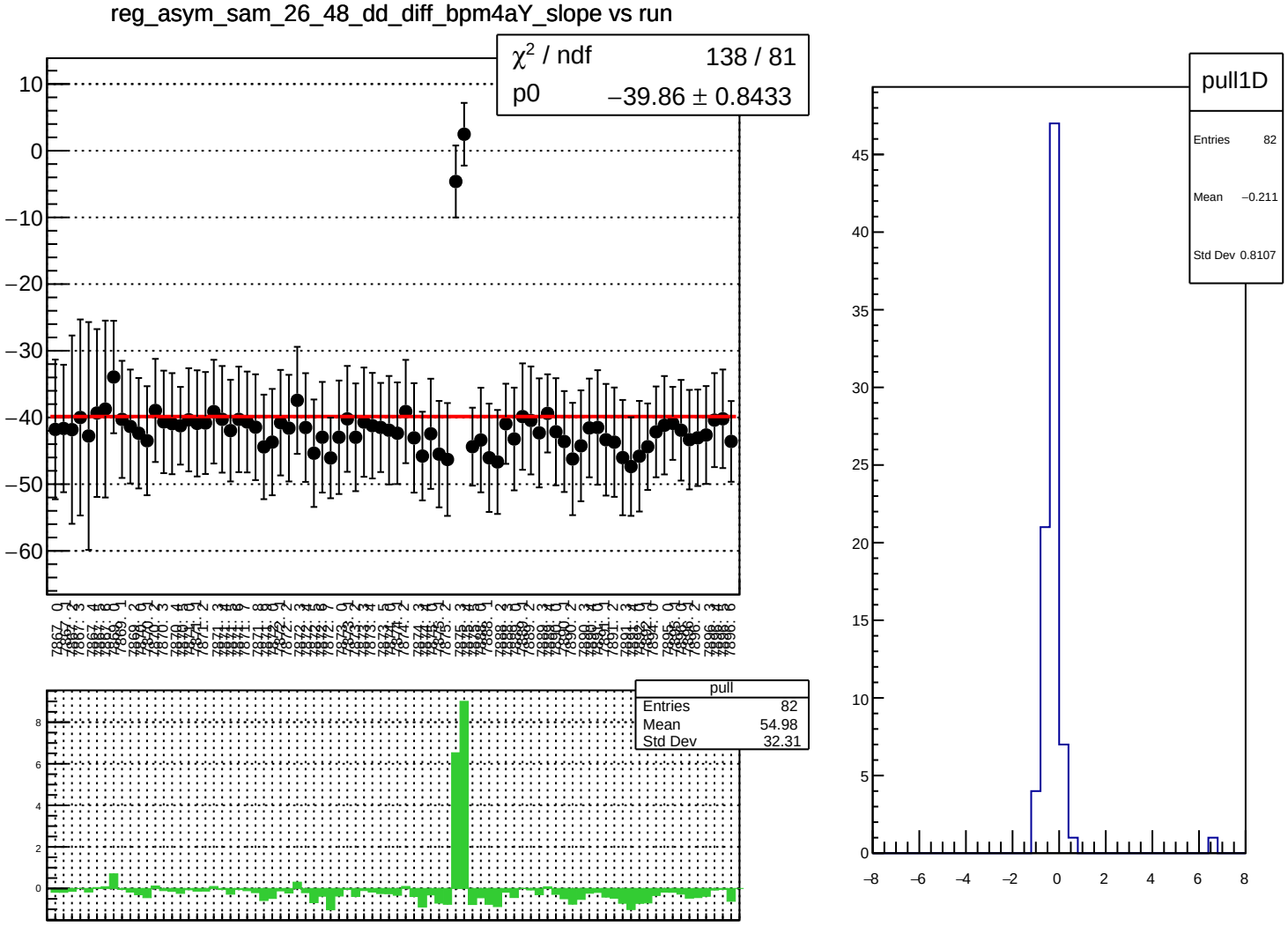

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.16 / 81
p0 −69.18 ± 3.586
pull
Entries 82
Mean 31.12
Std Dev 29.12

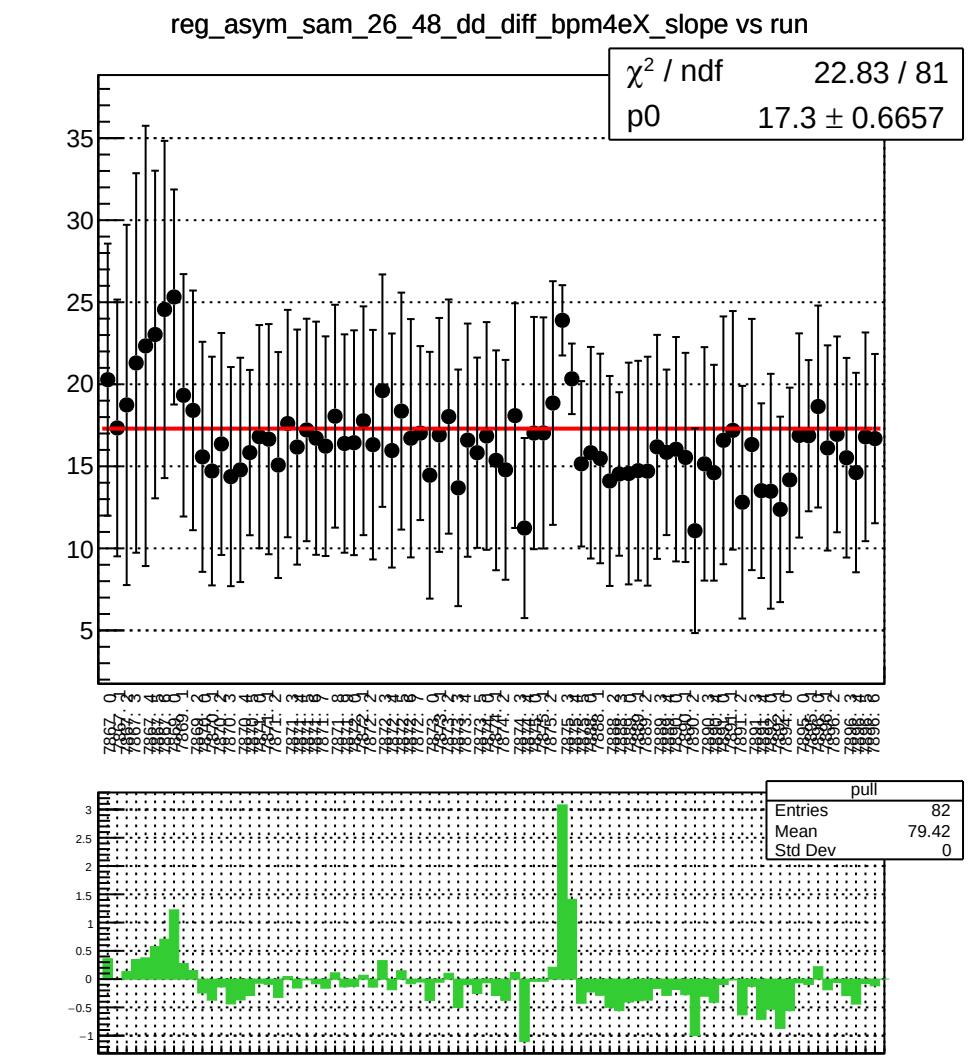

pull1D
Entries 82
Mean 0.2288
Std Dev 0.6036

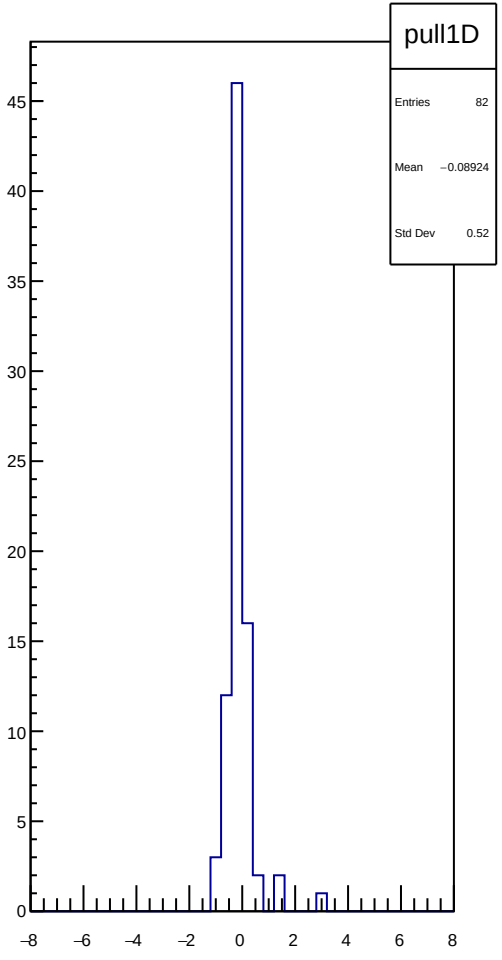

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.508 / 81
p0 20.33 ± 5.383
pull
Entries 82
Mean −30.88
Std Dev 0
pull1D
Entries 82
Mean −0.007802
Std Dev 0.2067

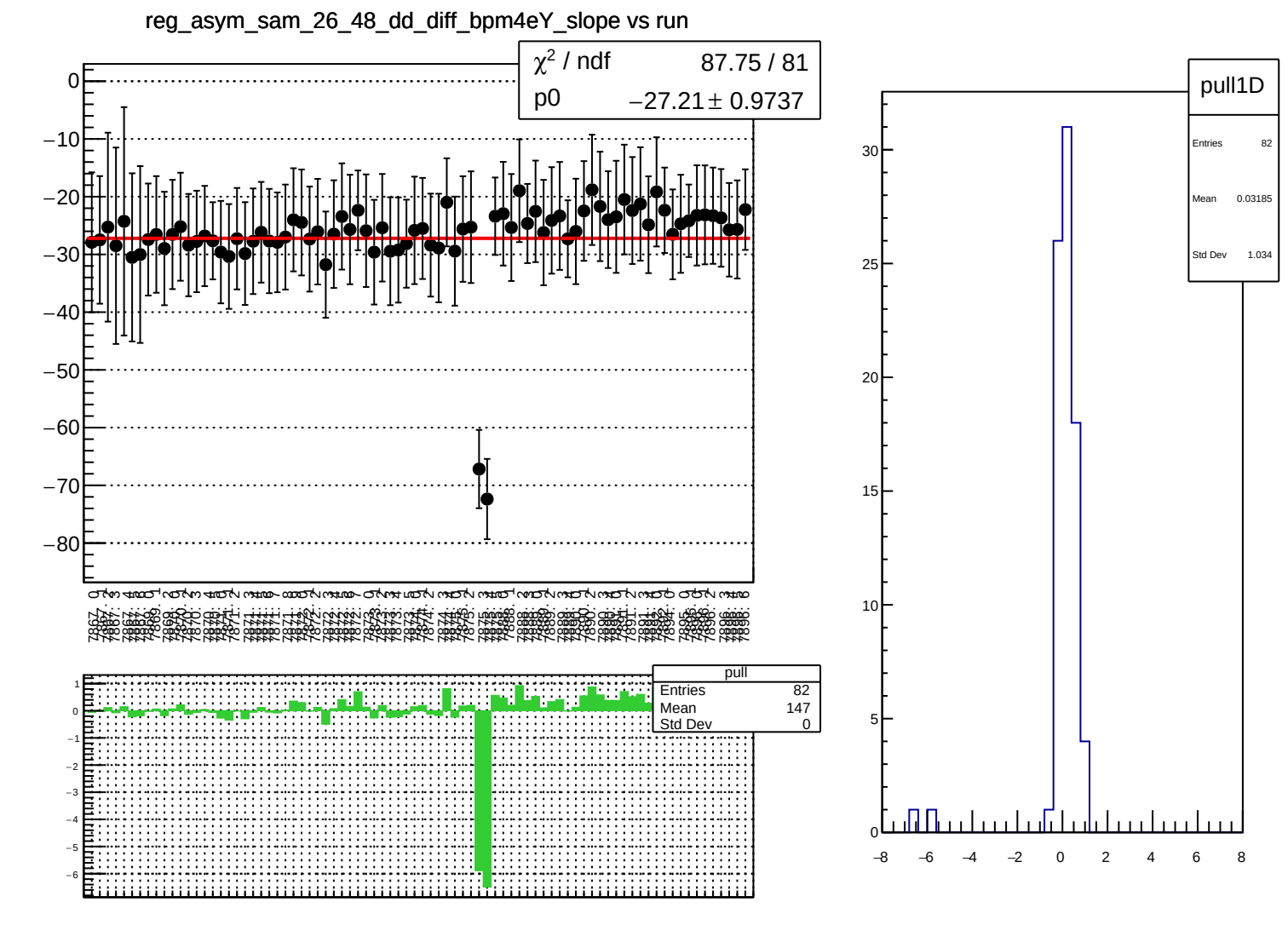

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 6.641 / 81
p0 −0.5126 ± 0.1688
pull
Entries 82
Mean 0.4016
Std Dev 32.99
pull1D
Entries 82
Mean −0.02444
Std Dev 0.2835

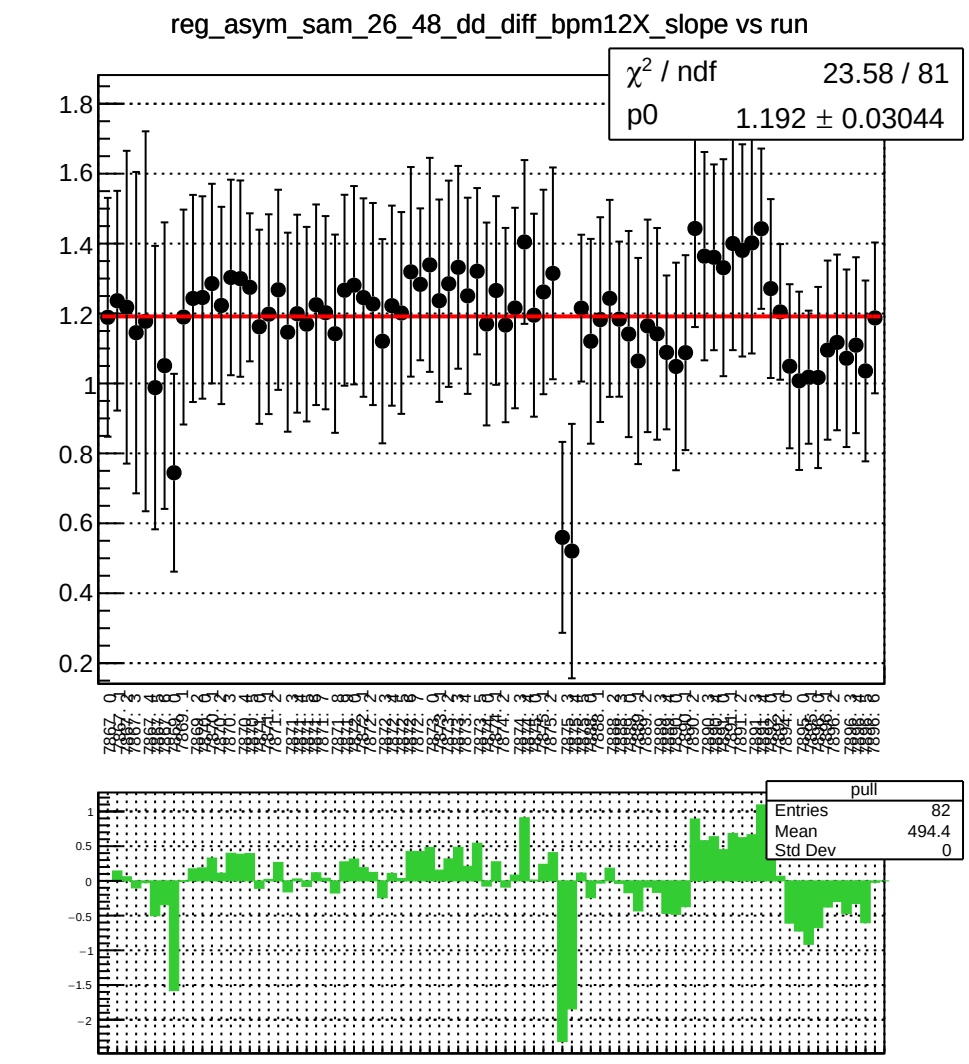

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 21.09 / 81
p0 2.043 ± 0.7807
pull
Entries 82
Mean 63.33
Std Dev 0
pull1D
Entries 82
Mean 0.07229
Std Dev 0.502

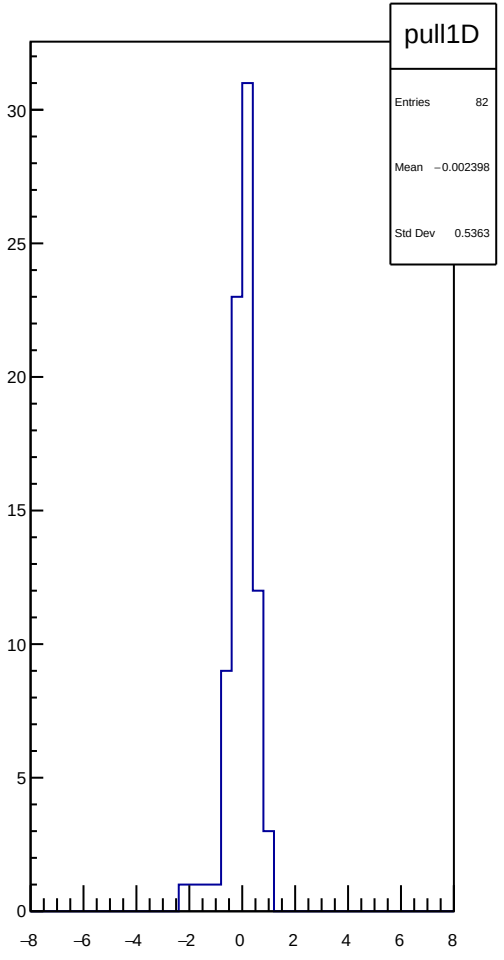

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 138 / 81
p0 −39.86 ± 0.8433
pull
Entries 82
Mean 54.98
Std Dev 32.31
pull1D
Entries 82
Mean −0.211
Std Dev 0.8107

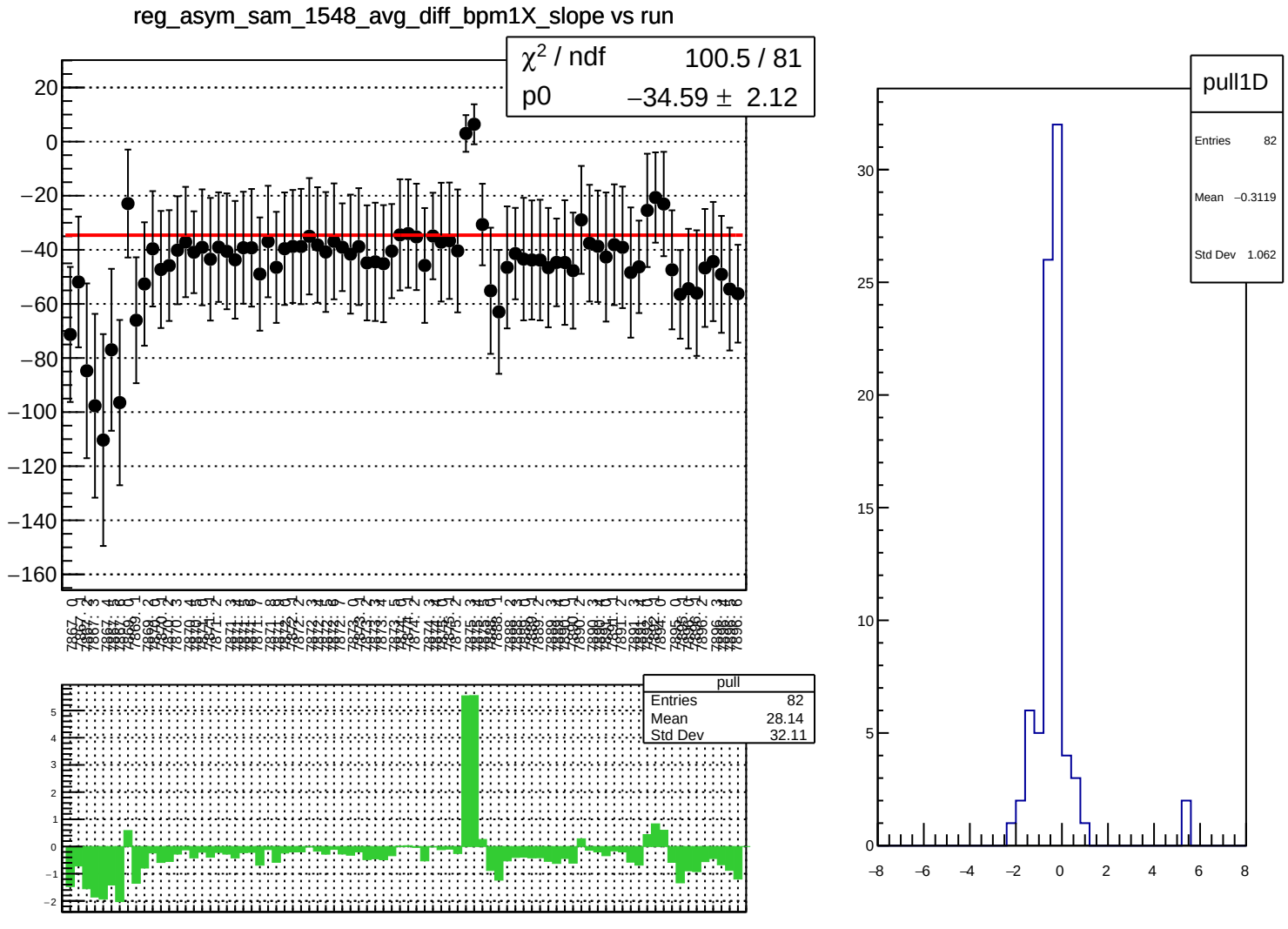

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.83 / 81
p0 17.3 ± 0.6657
pull
Entries 82
Mean 79.42
Std Dev 0

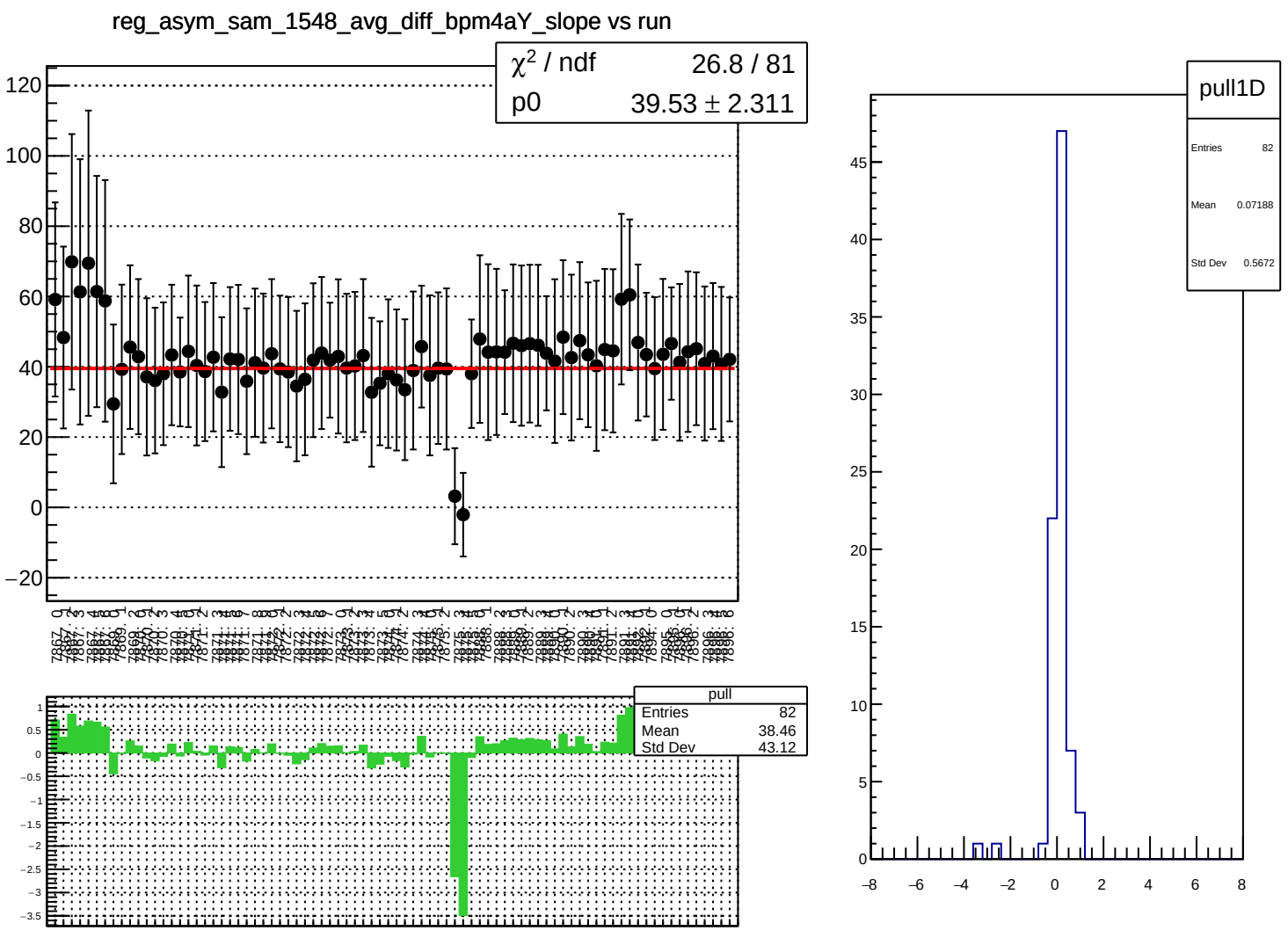

pull1D
Entries 82
Mean −0.08924
Std Dev 0.52

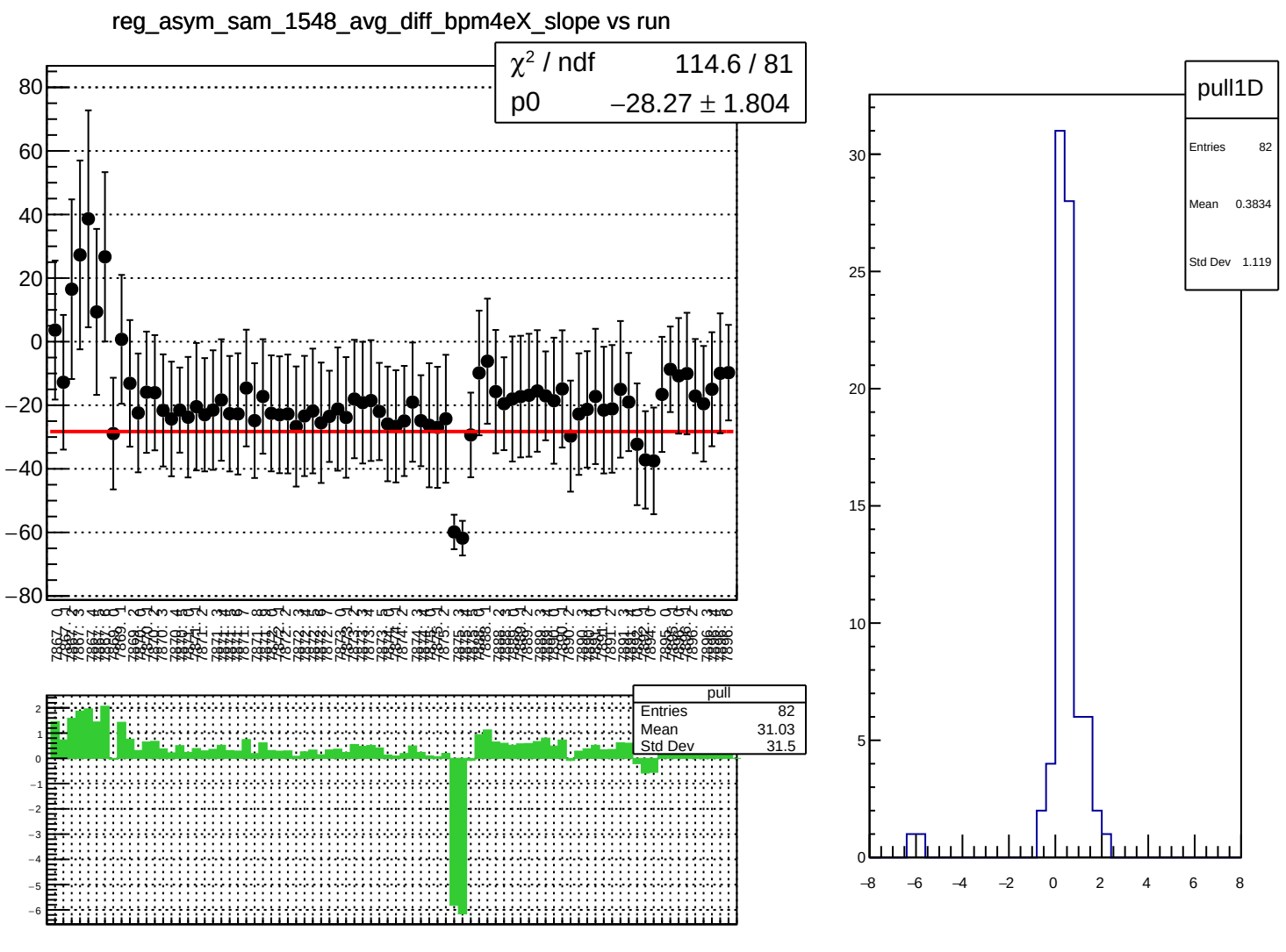

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.75 / 81
p0 −27.21 ± 0.9737
pull
Entries 82
Mean 147
Std Dev 0
pull1D
Entries 82
Mean 0.03185
Std Dev 1.034

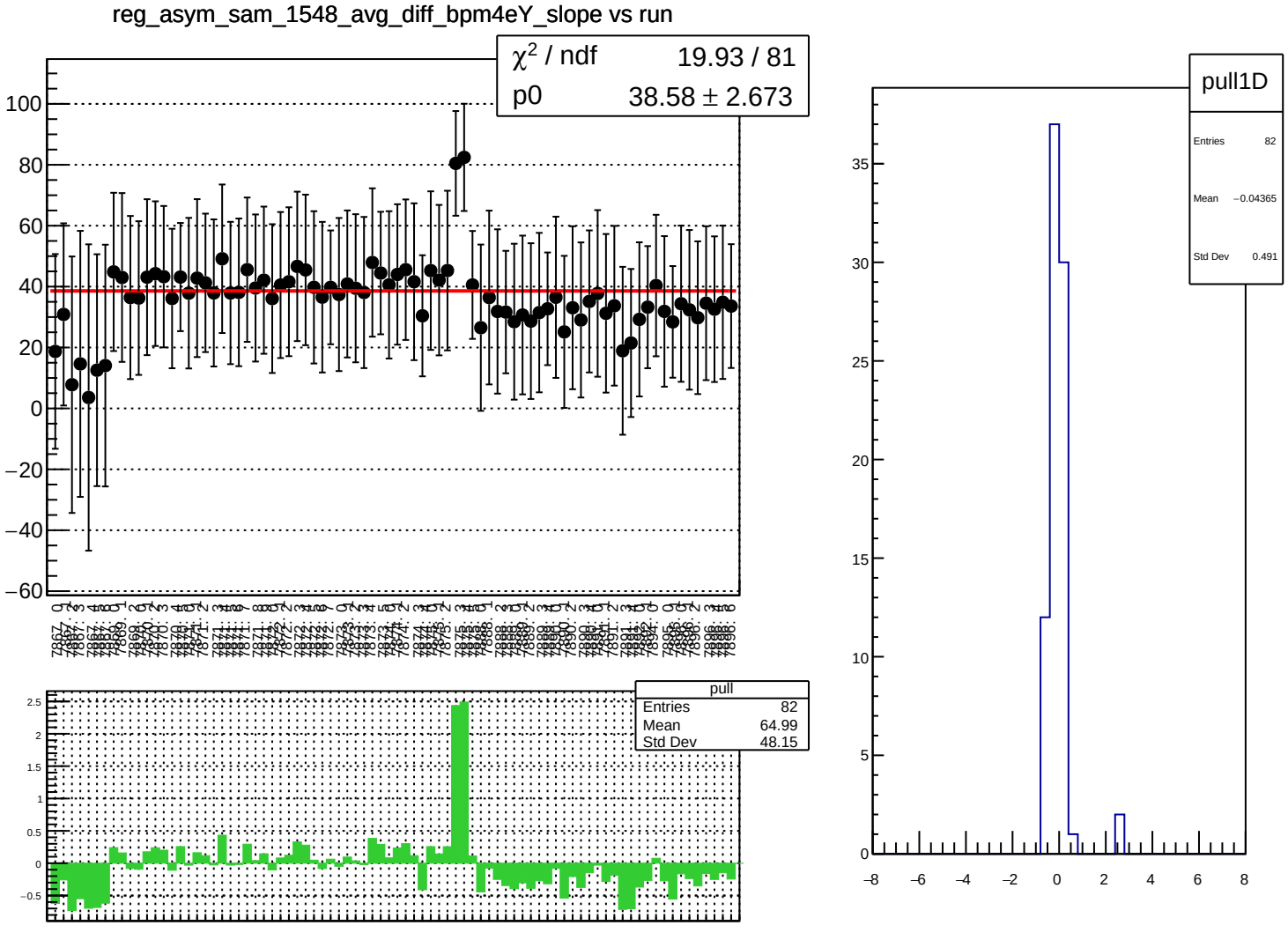

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 23.58 / 81
p0 1.192 ± 0.03044
pull
Entries 82
Mean 494.4
Std Dev 0

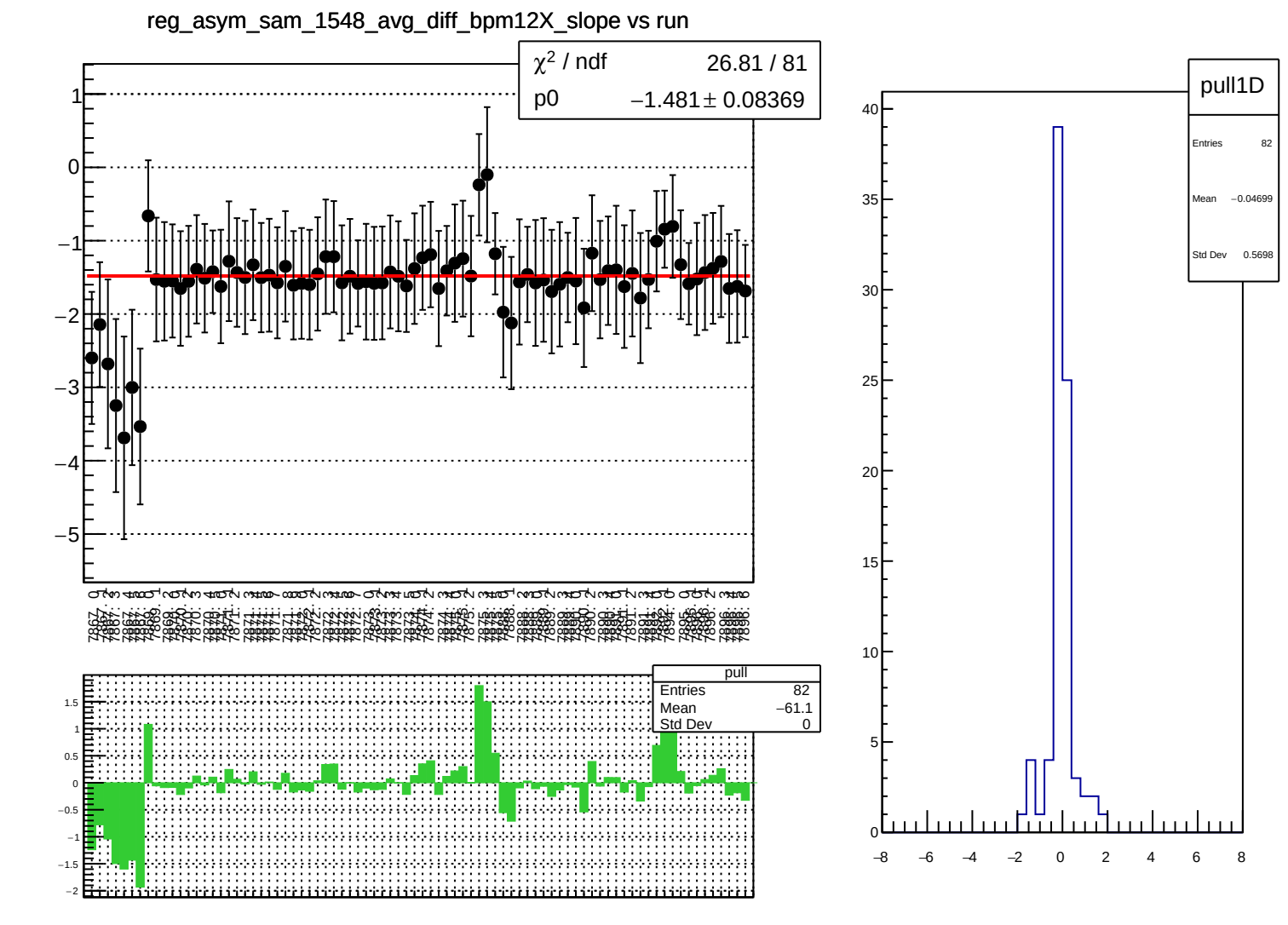

pull1D
Entries 82
Mean −0.002398
Std Dev 0.5363

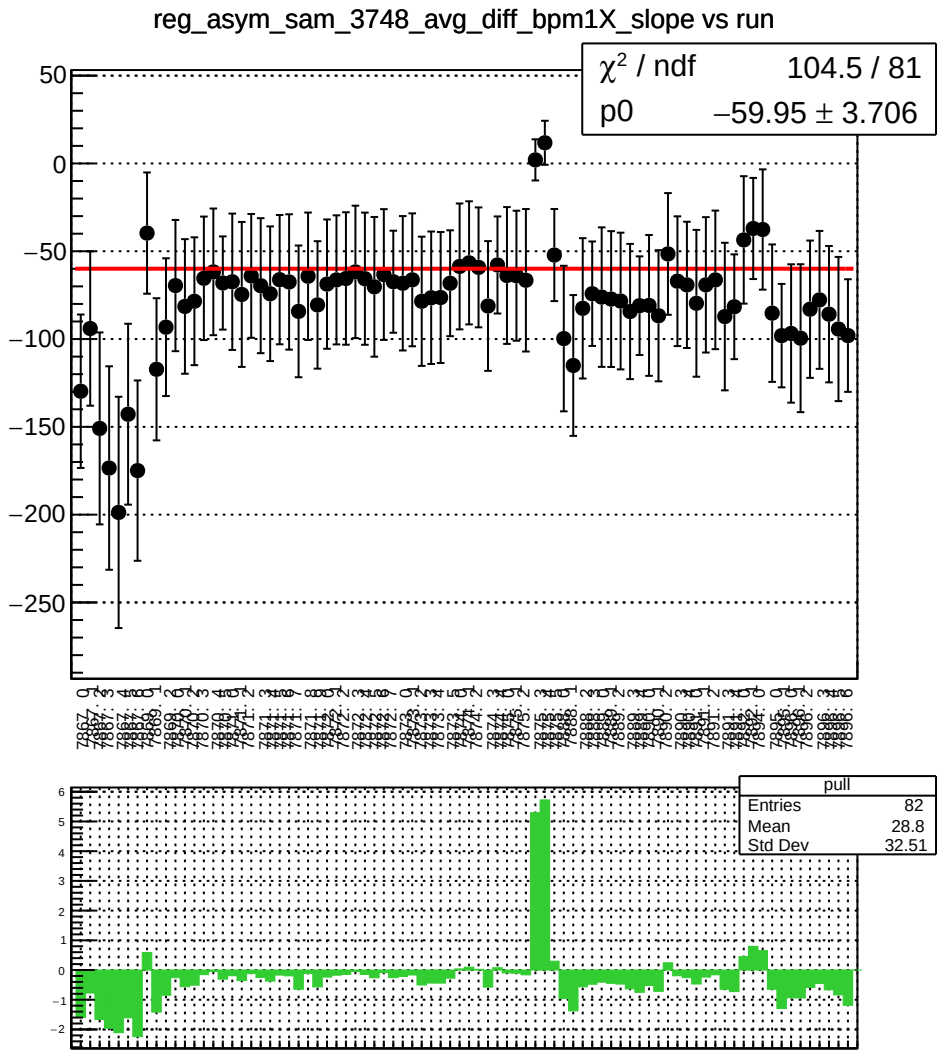

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 100.5 / 81
p0 −34.59 ± 2.12
pull
Entries 82
Mean 28.14
Std Dev 32.11
pull1D
Entries 82
Mean −0.3119
Std Dev 1.062

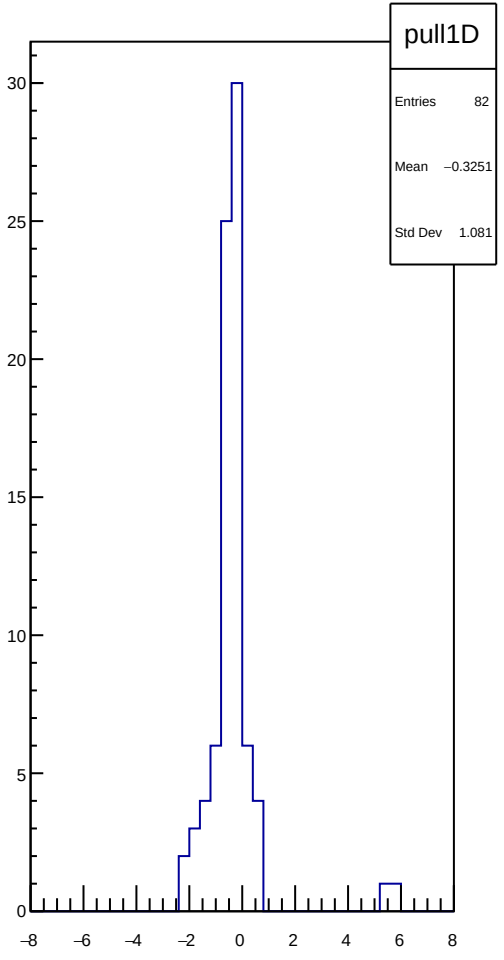

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.8 / 81
p0 39.53 ± 2.311
pull
Entries 82
Mean 38.46
Std Dev 43.12
pull1D
Entries 82
Mean 0.07188
Std Dev 0.5672

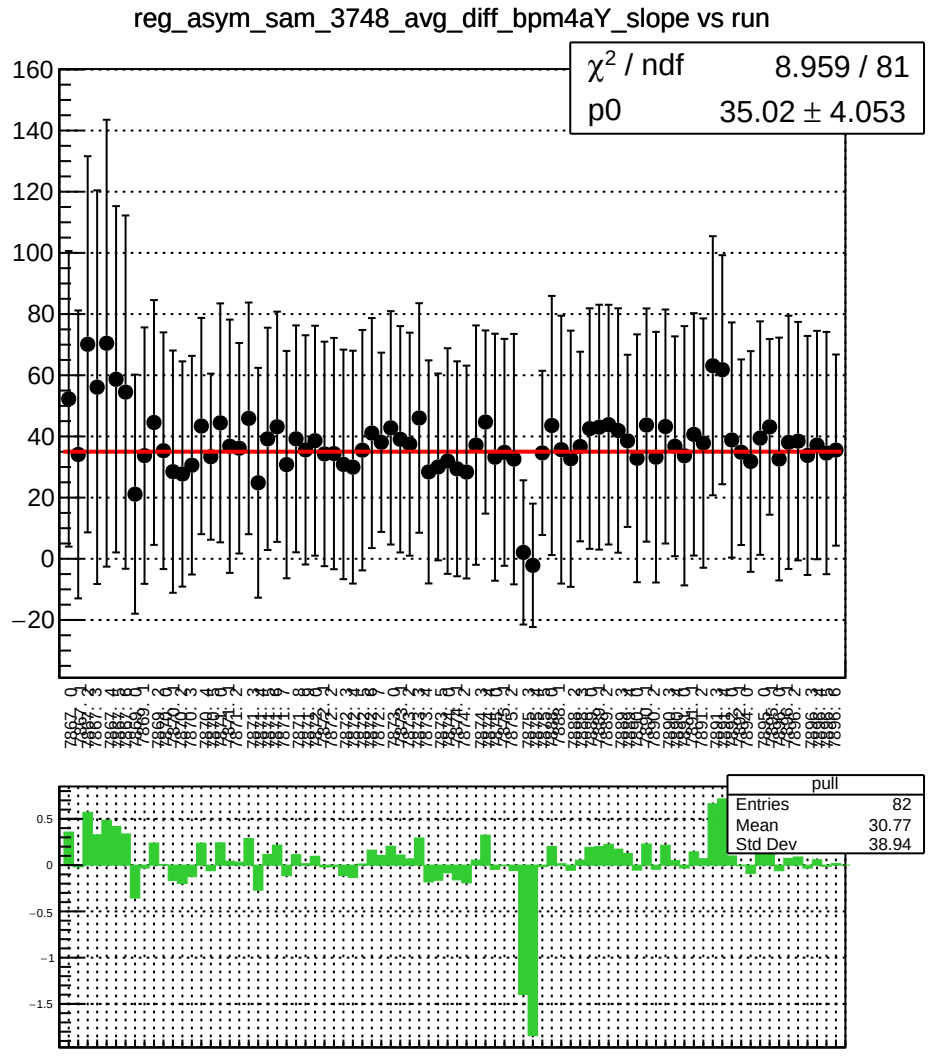

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.6 / 81
p0 −28.27 ± 1.804
pull
Entries 82
Mean 31.03
Std Dev 31.5
pull1D
Entries 82
Mean 0.3834
Std Dev 1.119

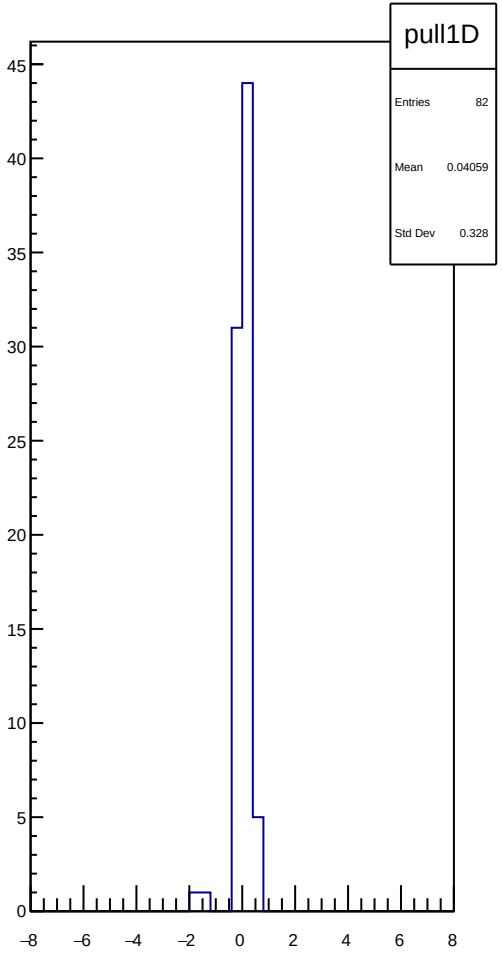

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.93 / 81
p0 38.58 ± 2.673
pull
Entries 82
Mean 64.99
Std Dev 48.15
pull1D
Entries 82
Mean −0.04365
Std Dev 0.491

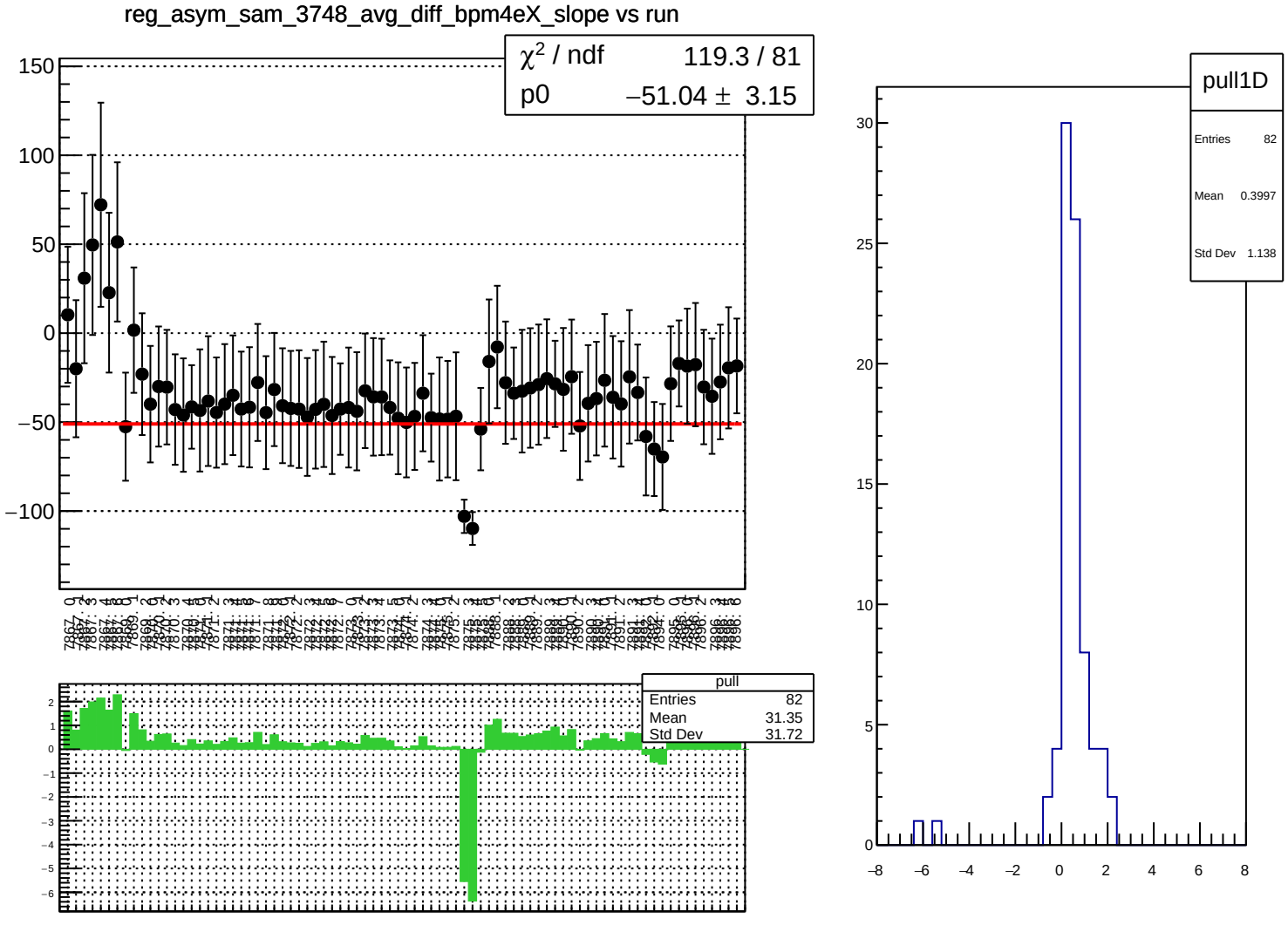

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 26.81 / 81
p0 −1.481 ± 0.08369
pull
Entries 82
Mean −61.1
Std Dev 0
pull1D
Entries 82
Mean −0.04699
Std Dev 0.5698

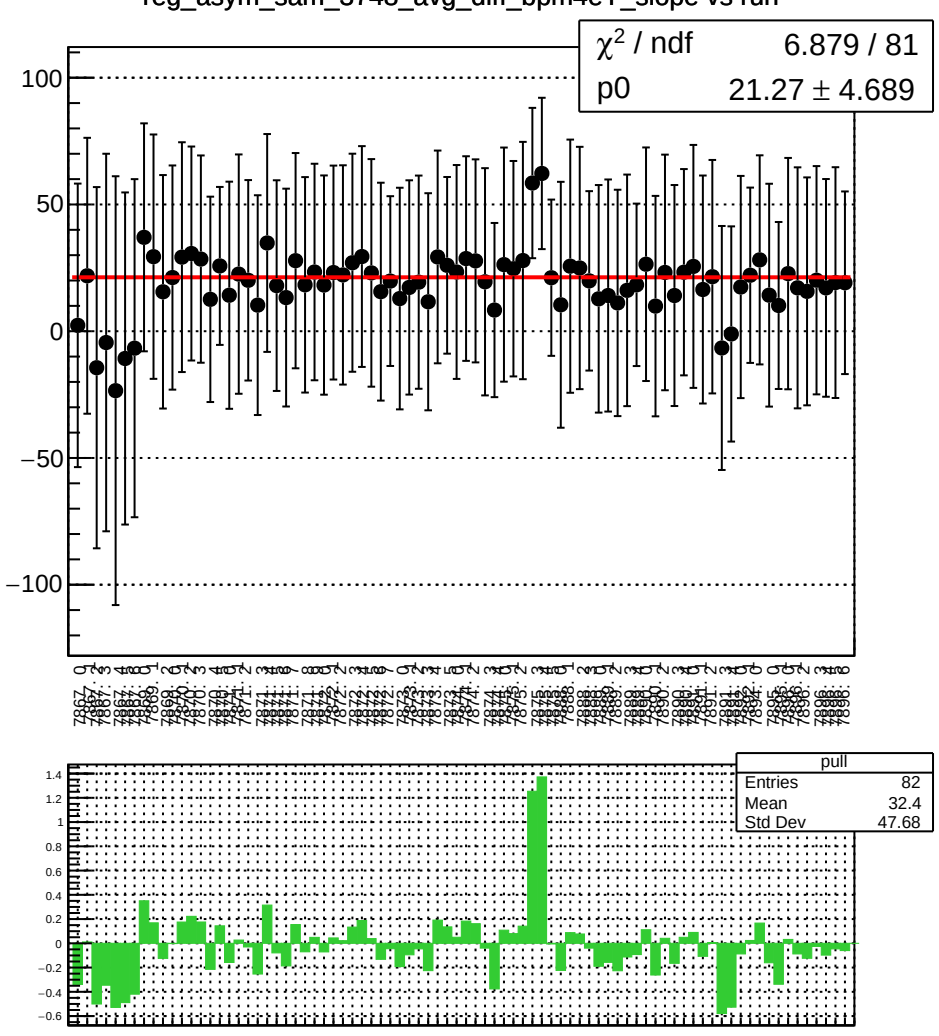

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 104.5 / 81
p0 −59.95 ± 3.706
pull
Entries 82
Mean 28.8
Std Dev 32.51

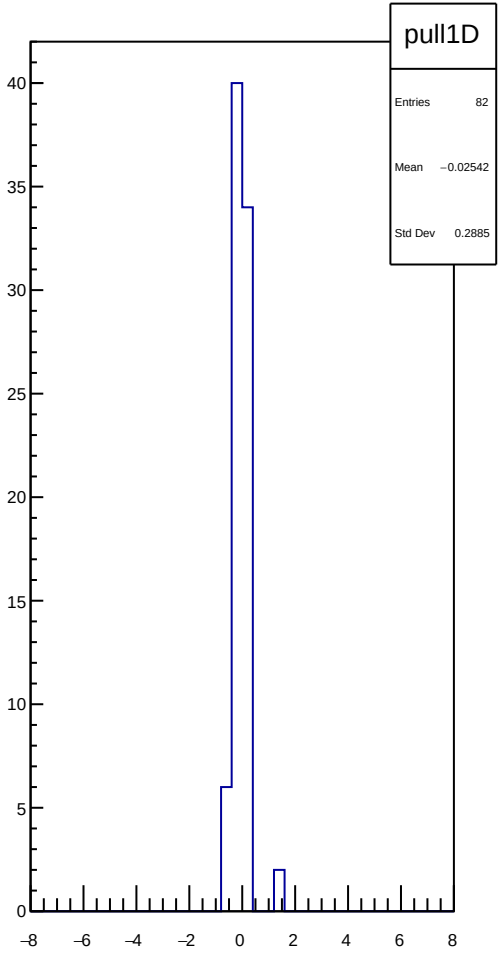

pull1D
Entries 82
Mean −0.3251
Std Dev 1.081

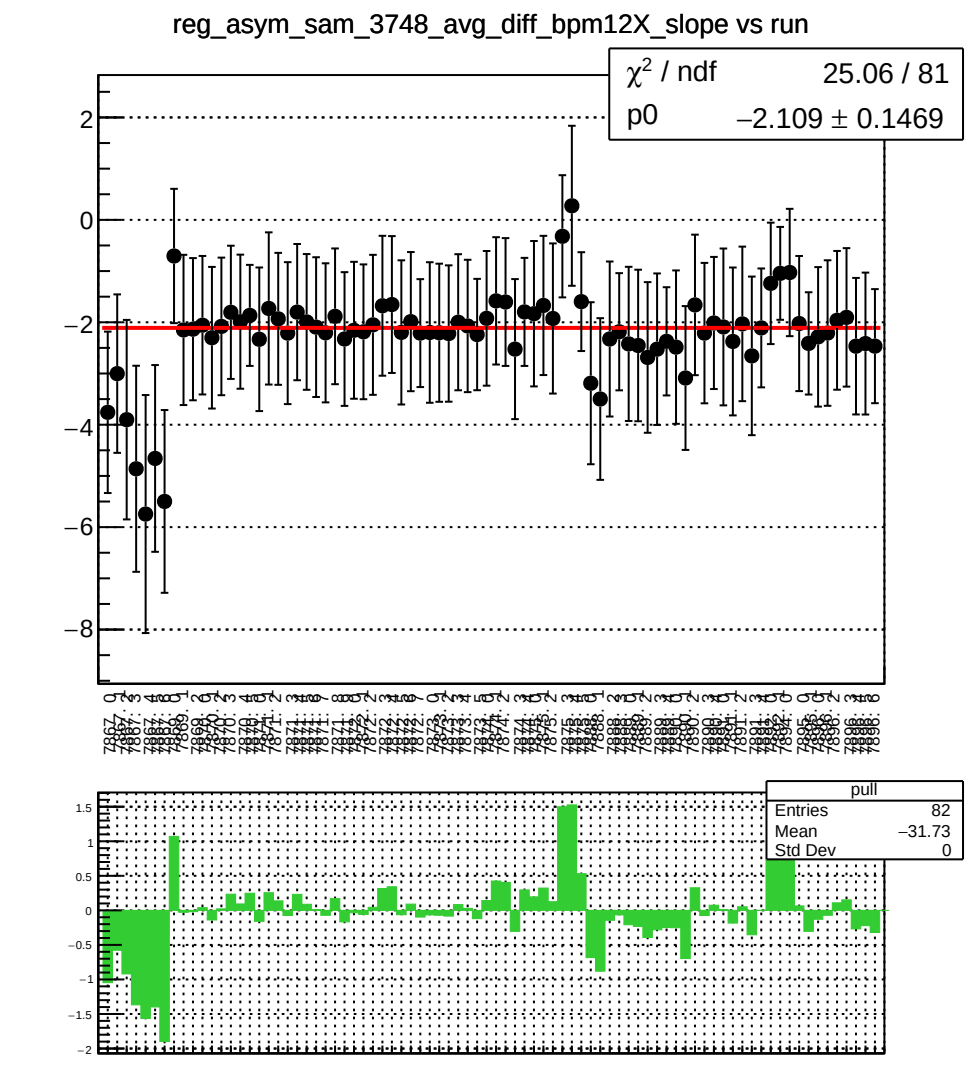

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.959 / 81
p0 35.02 ± 4.053
pull
Entries 82
Mean 30.77
Std Dev 38.94

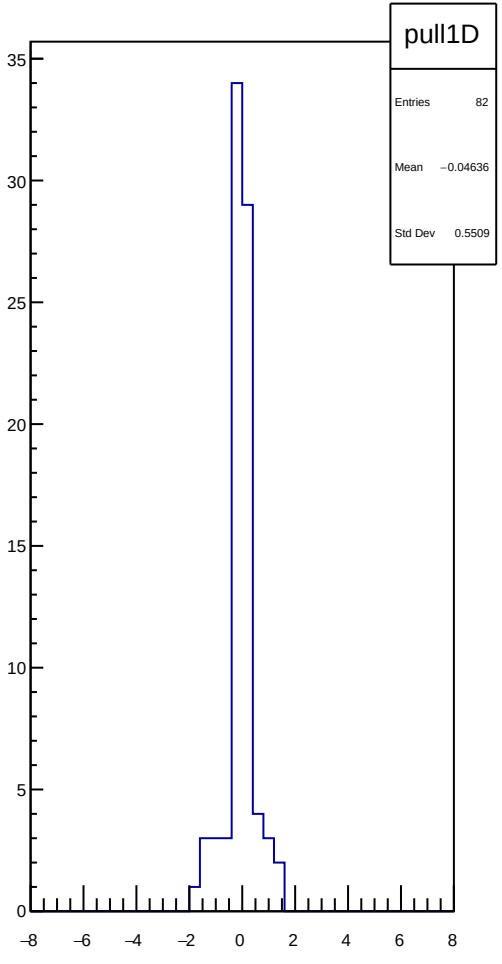

pull1D
Entries 82
Mean 0.04059
Std Dev 0.328

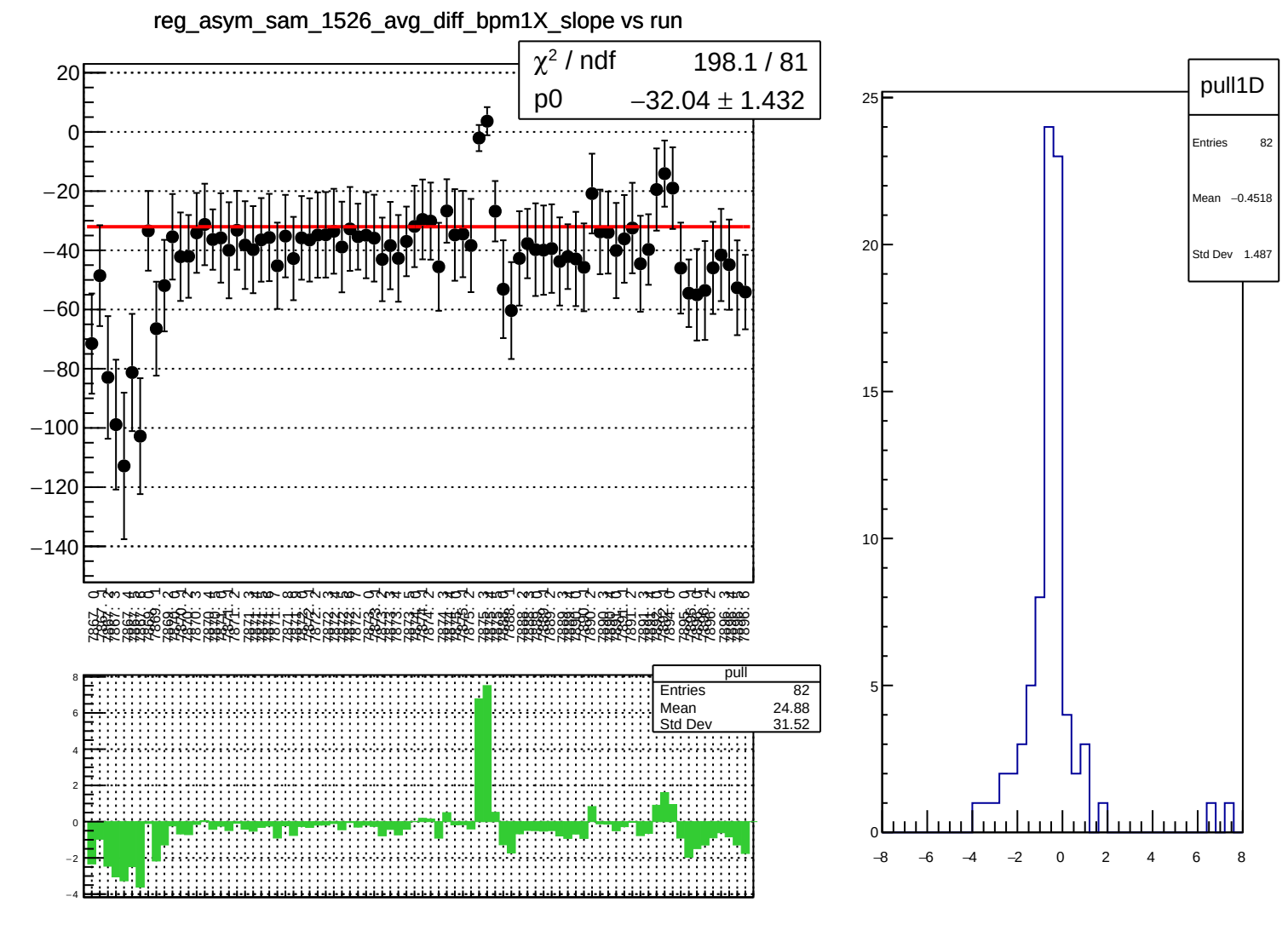

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 119.3 / 81
p0 −51.04 ± 3.15
150
100
50
0
−50
−100
pull
Entries 82
Mean 31.35
Std Dev 31.72
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 82
Mean 0.3997
Std Dev 1.138
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

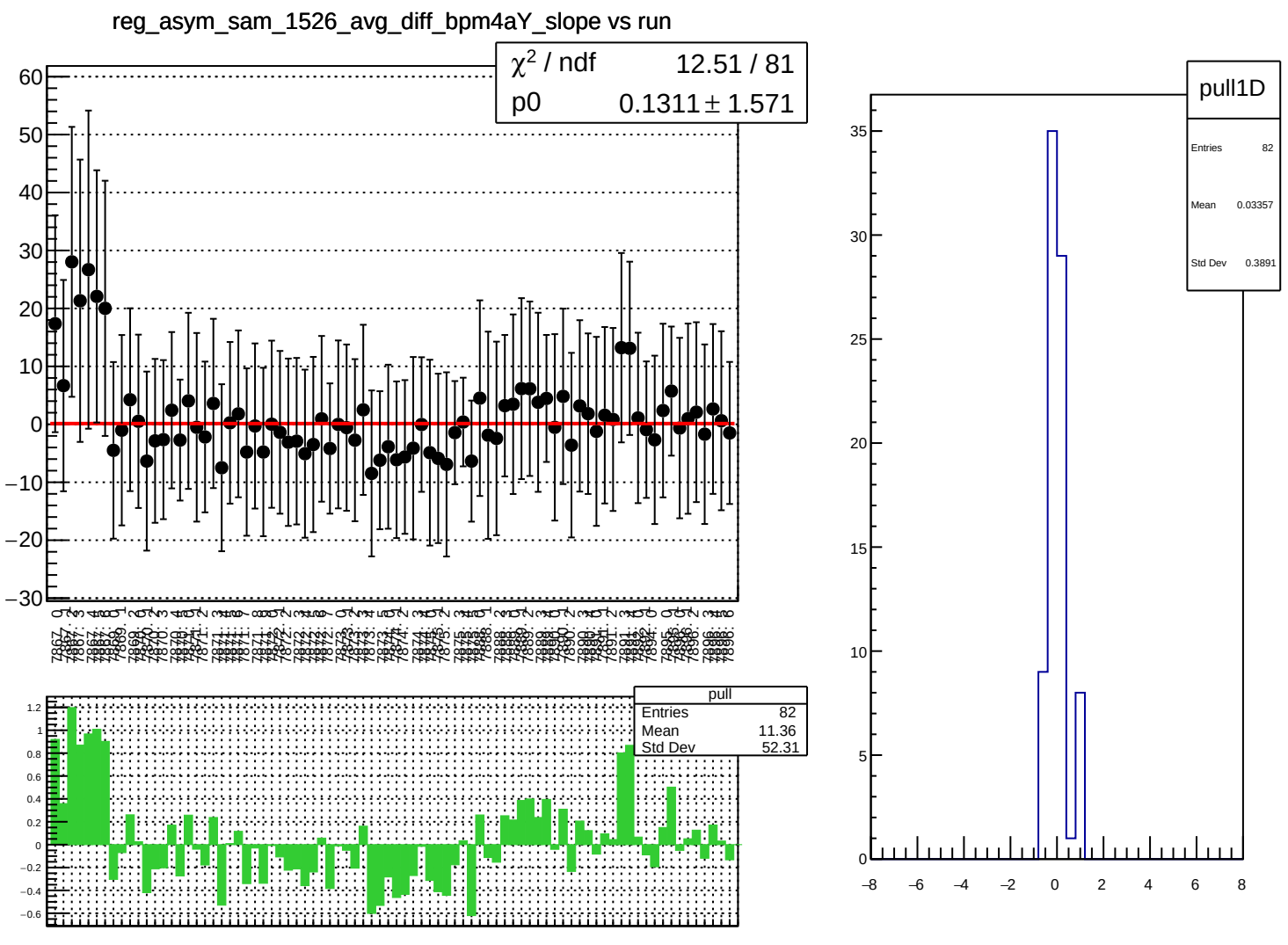

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.879 / 81
p0 21.27 ± 4.689
pull
Entries 82
Mean 32.4
Std Dev 47.68

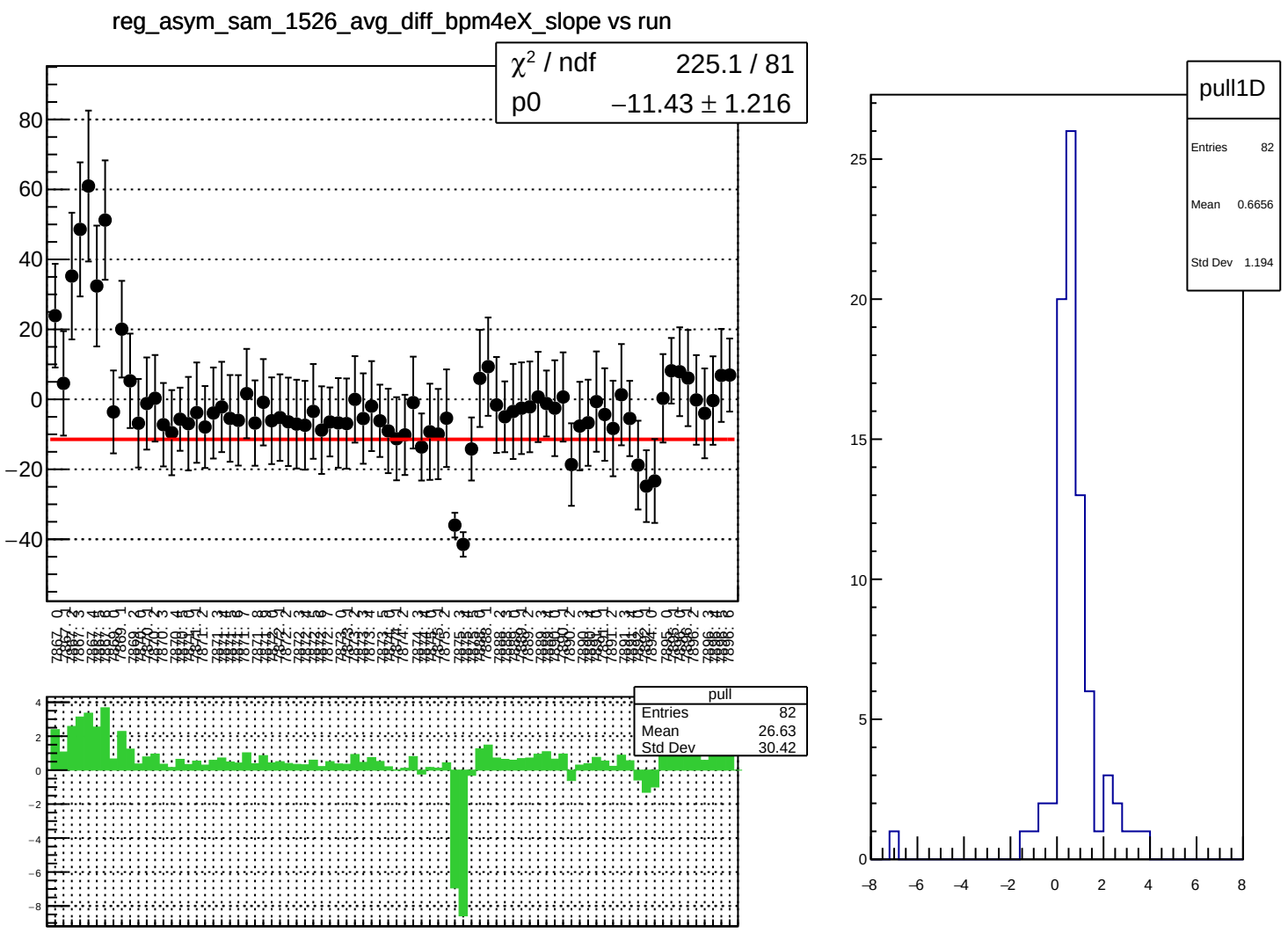

pull1D
Entries 82
Mean −0.02542
Std Dev 0.2885

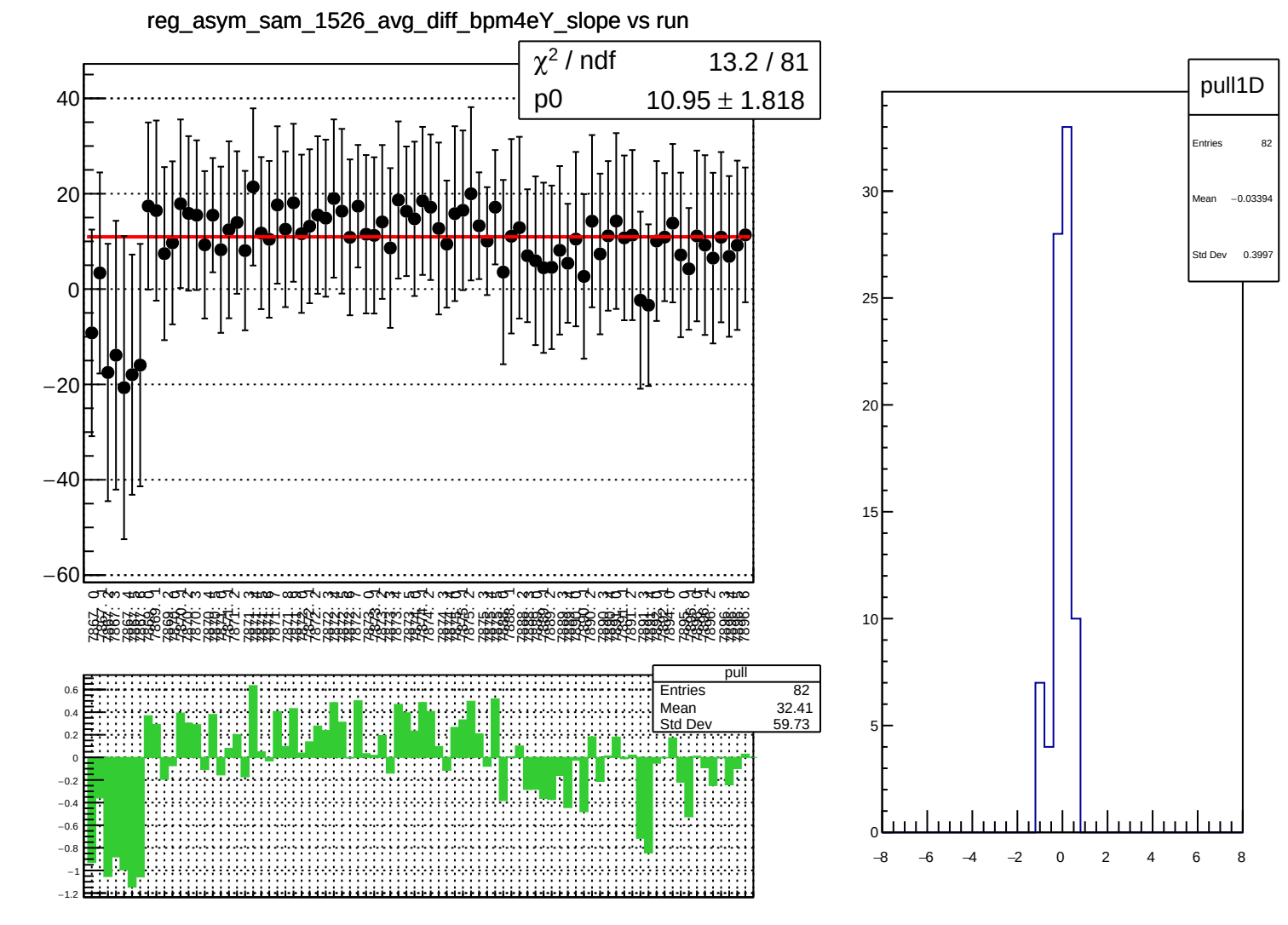

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 25.06 / 81
p0 −2.109 ± 0.1469
pull
Entries 82
Mean −31.73
Std Dev 0

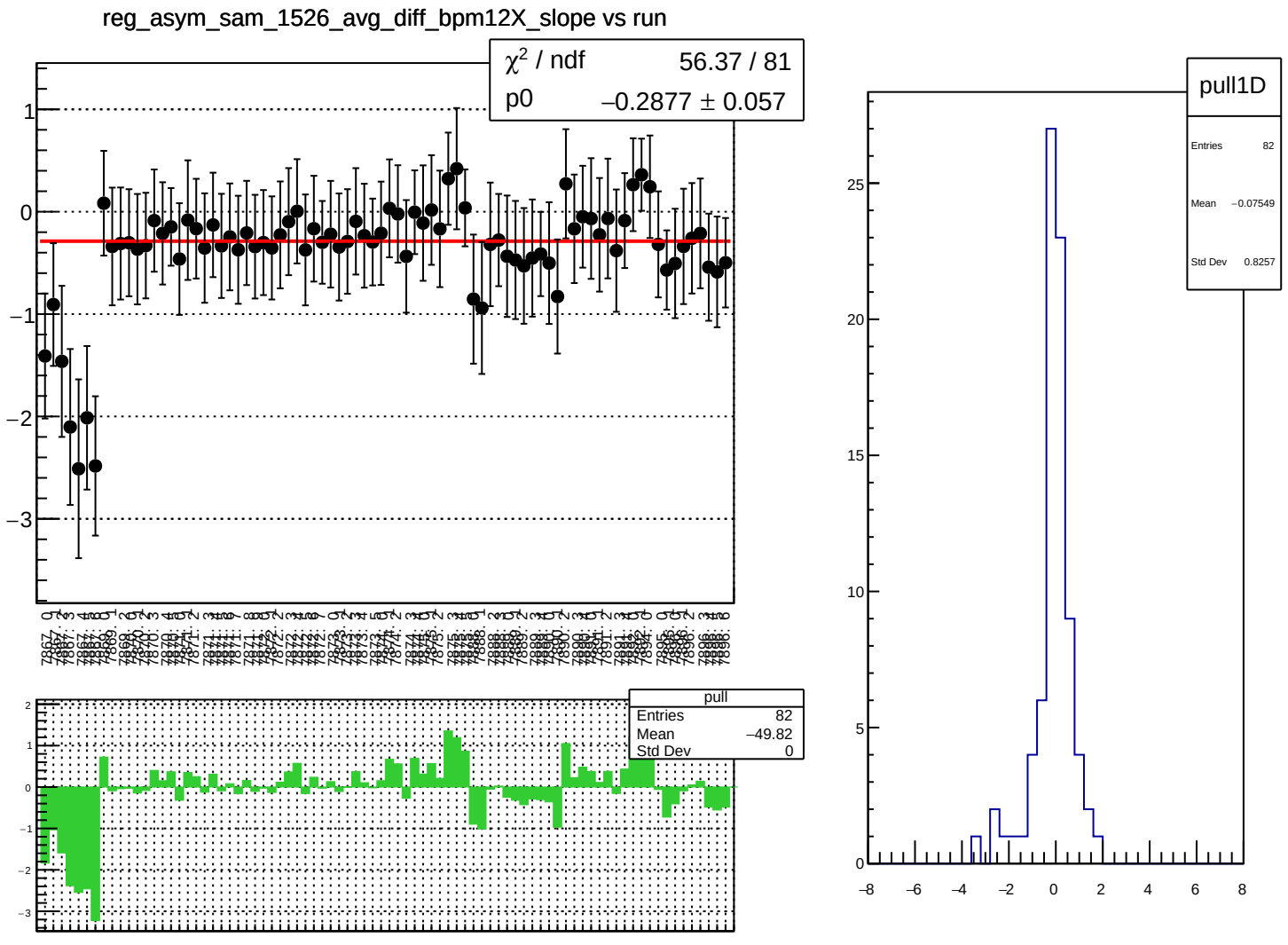

pull1D
Entries 82
Mean −0.04636
Std Dev 0.5509

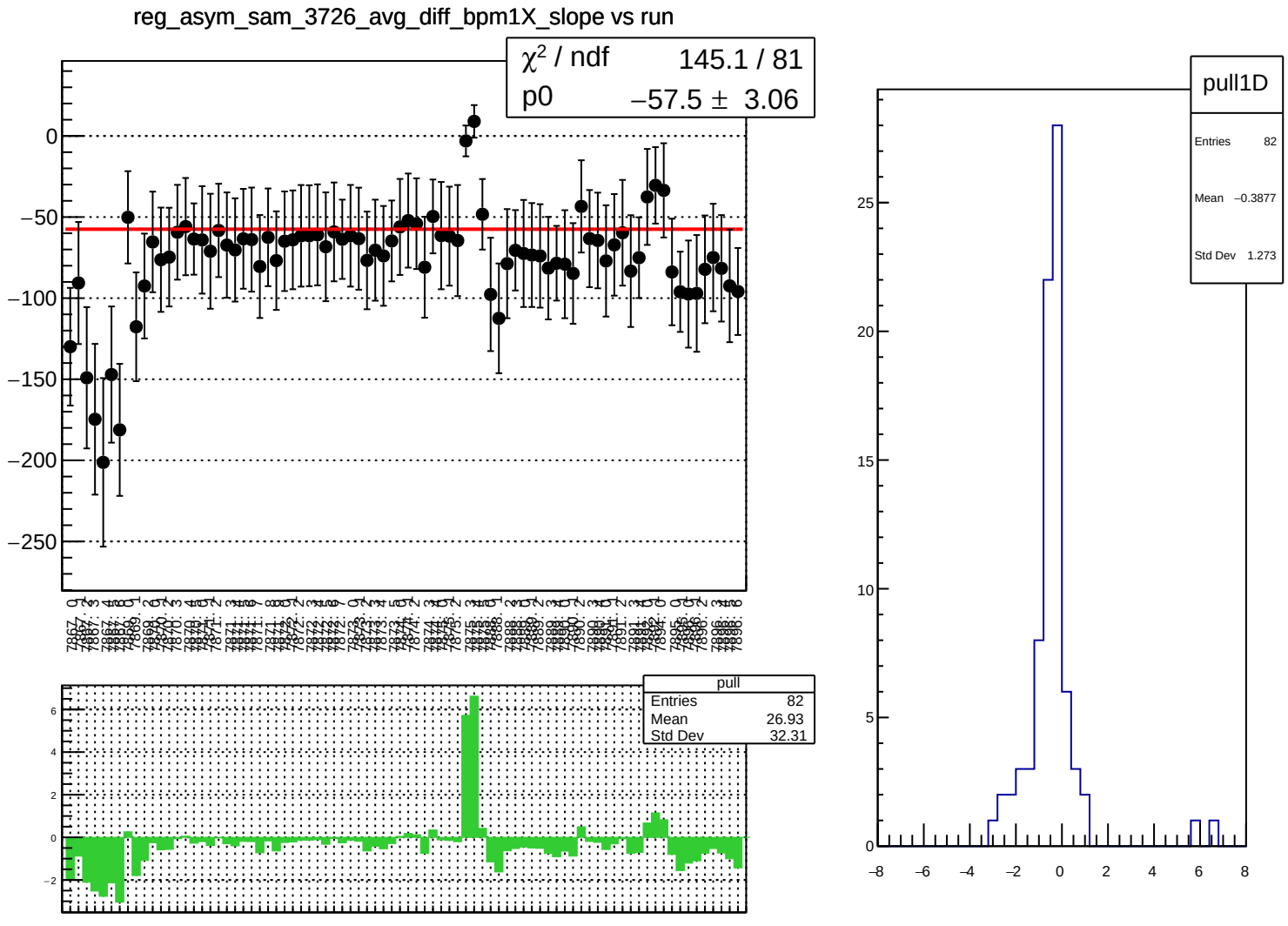

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 198.1 / 81
p0 −32.04 ± 1.432
pull
Entries 82
Mean 24.88
Std Dev 31.52
pull1D
Entries 82
Mean −0.4518
Std Dev 1.487

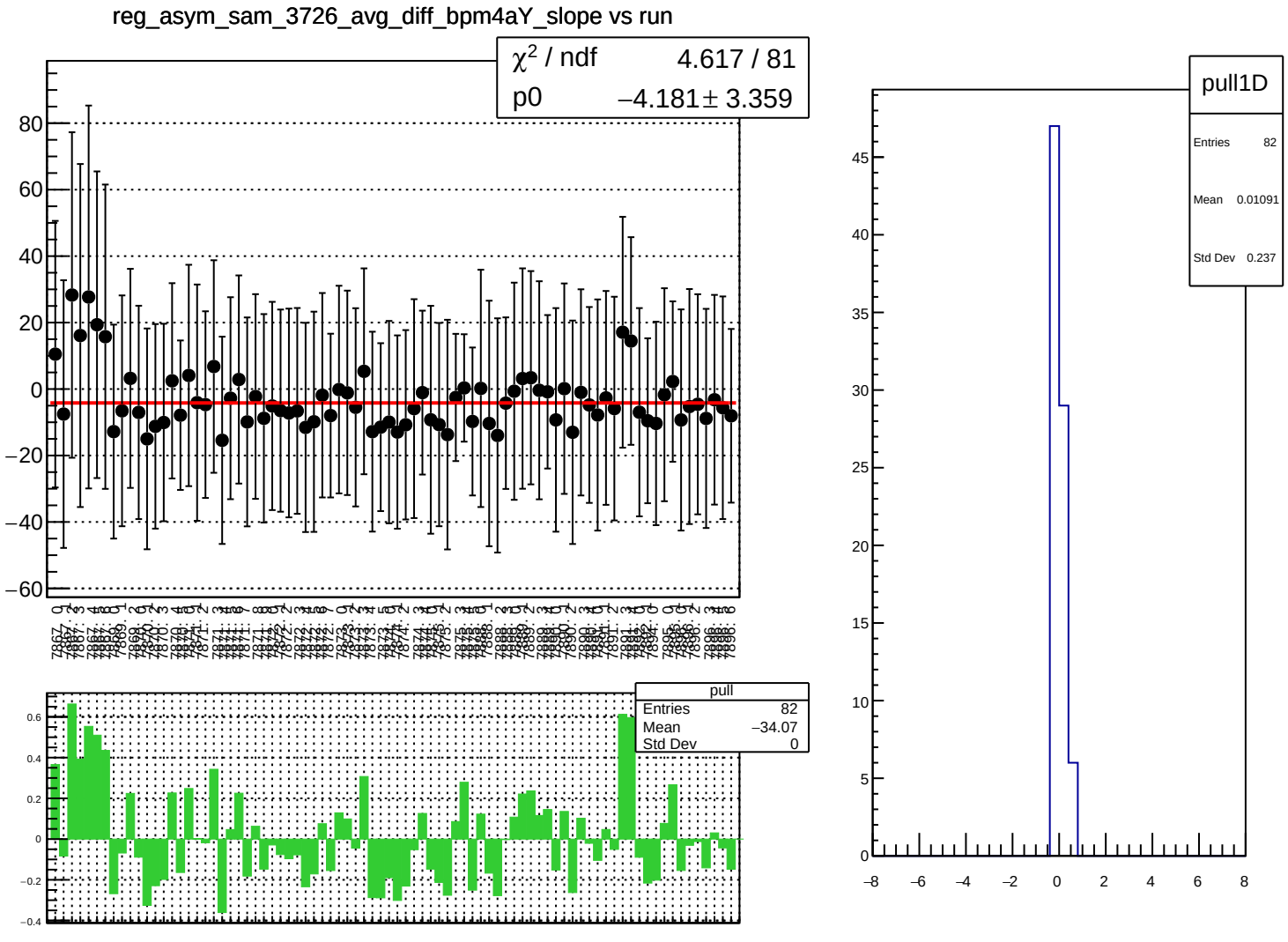

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.51 / 81
p0 0.1311 ± 1.571
pull
Entries 82
Mean 11.36
Std Dev 52.31
pull1D
Entries 82
Mean 0.03357
Std Dev 0.3891

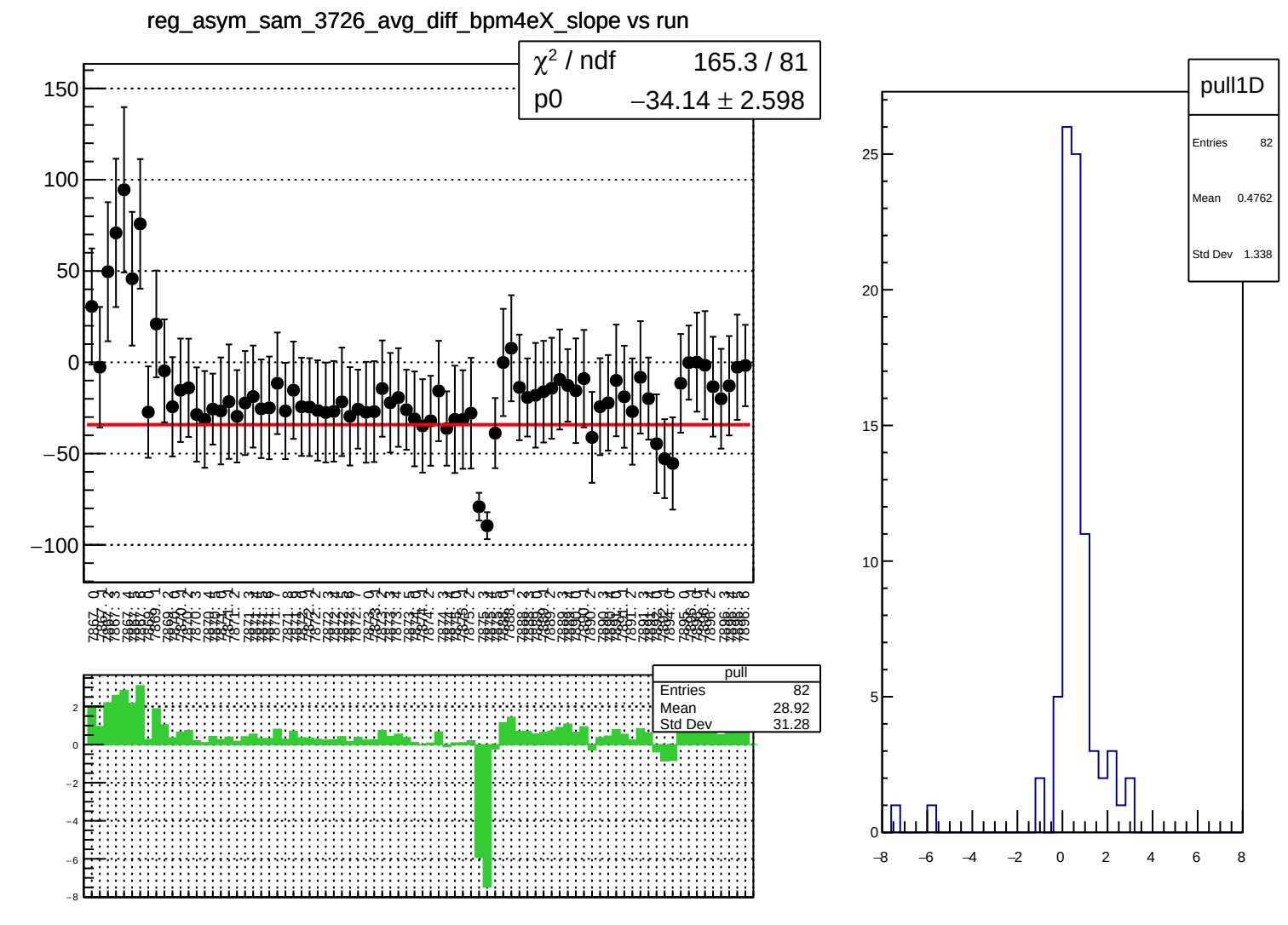

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 225.1 / 81
p0 −11.43 ± 1.216
pull
Entries 82
Mean 26.63
Std Dev 30.42
pull1D
Entries 82
Mean 0.6656
Std Dev 1.194

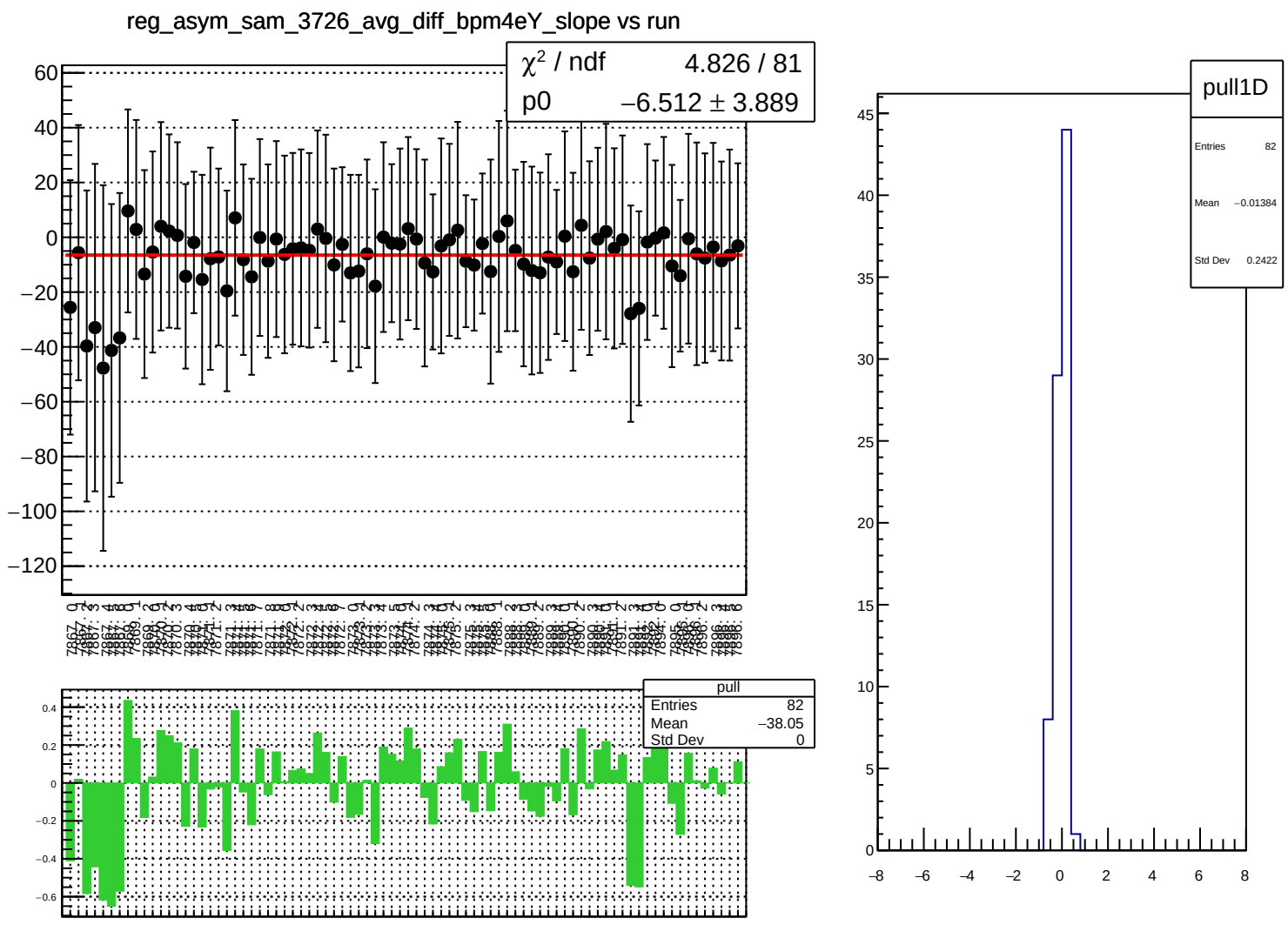

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.2 / 81
p0 10.95 ± 1.818
pull
Entries 82
Mean 32.41
Std Dev 59.73
pull1D
Entries 82
Mean −0.03394
Std Dev 0.3997

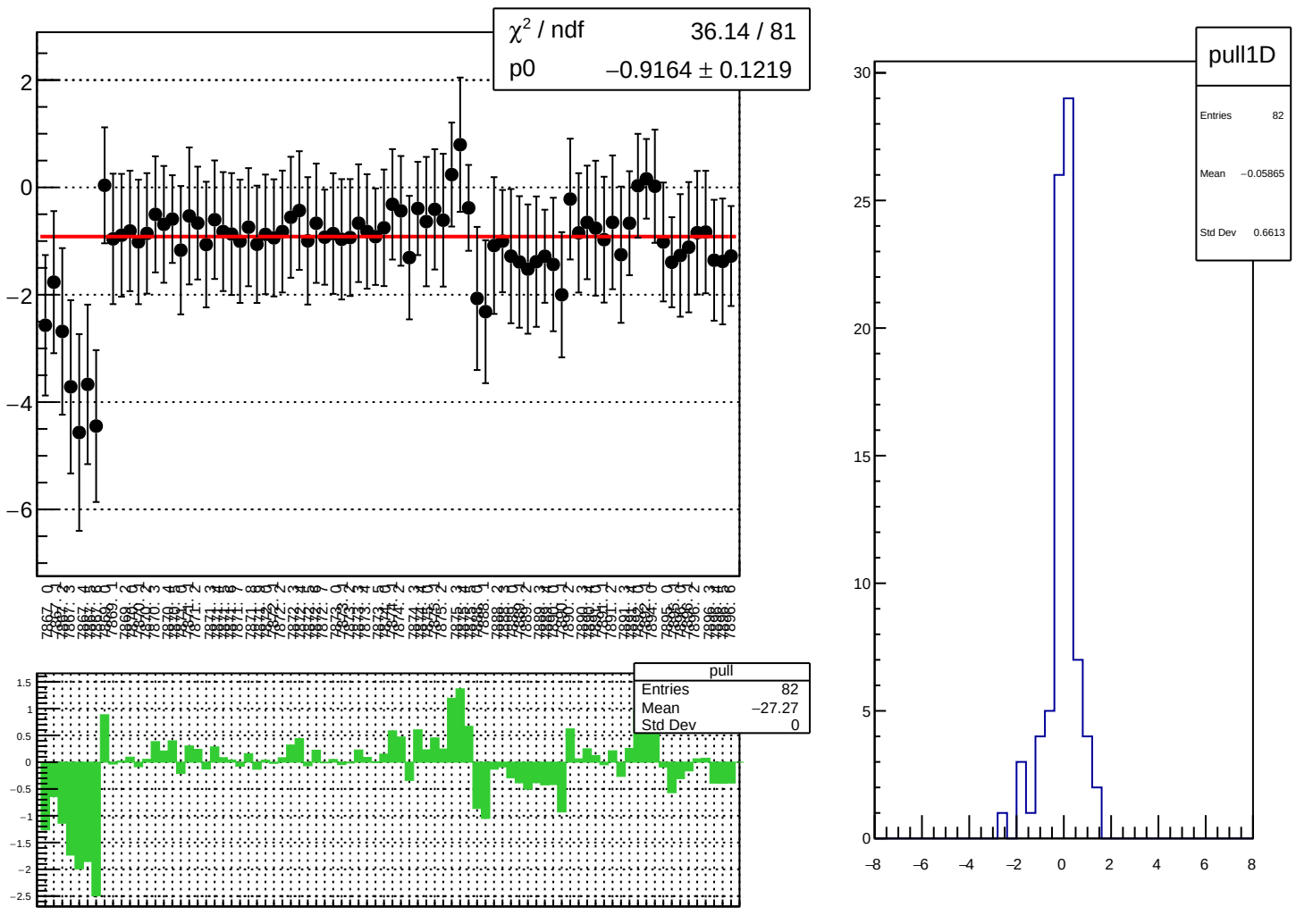

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 56.37 / 81
p0 −0.2877 ± 0.057
pull
Entries 82
Mean −49.82
Std Dev 0
pull1D
Entries 82
Mean −0.07549
Std Dev 0.8257

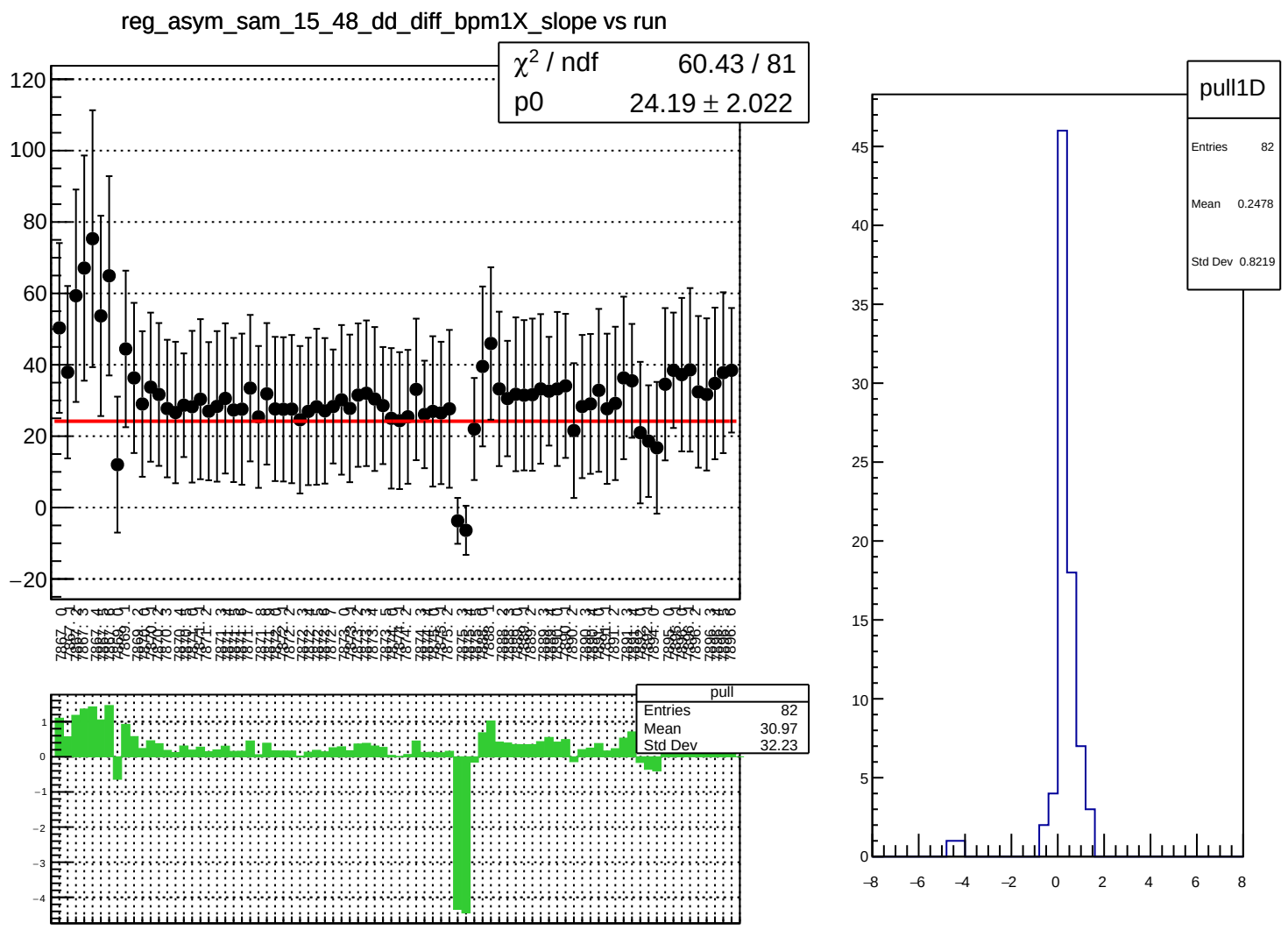

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 145.1 / 81
p0 −57.5 ± 3.06
0
−50
−100
−150
−200
−250
pull
Entries 82
Mean 26.93
Std Dev 32.31
6
4
2
0
−2
pull1D
Entries 82
Mean −0.3877
Std Dev 1.273
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

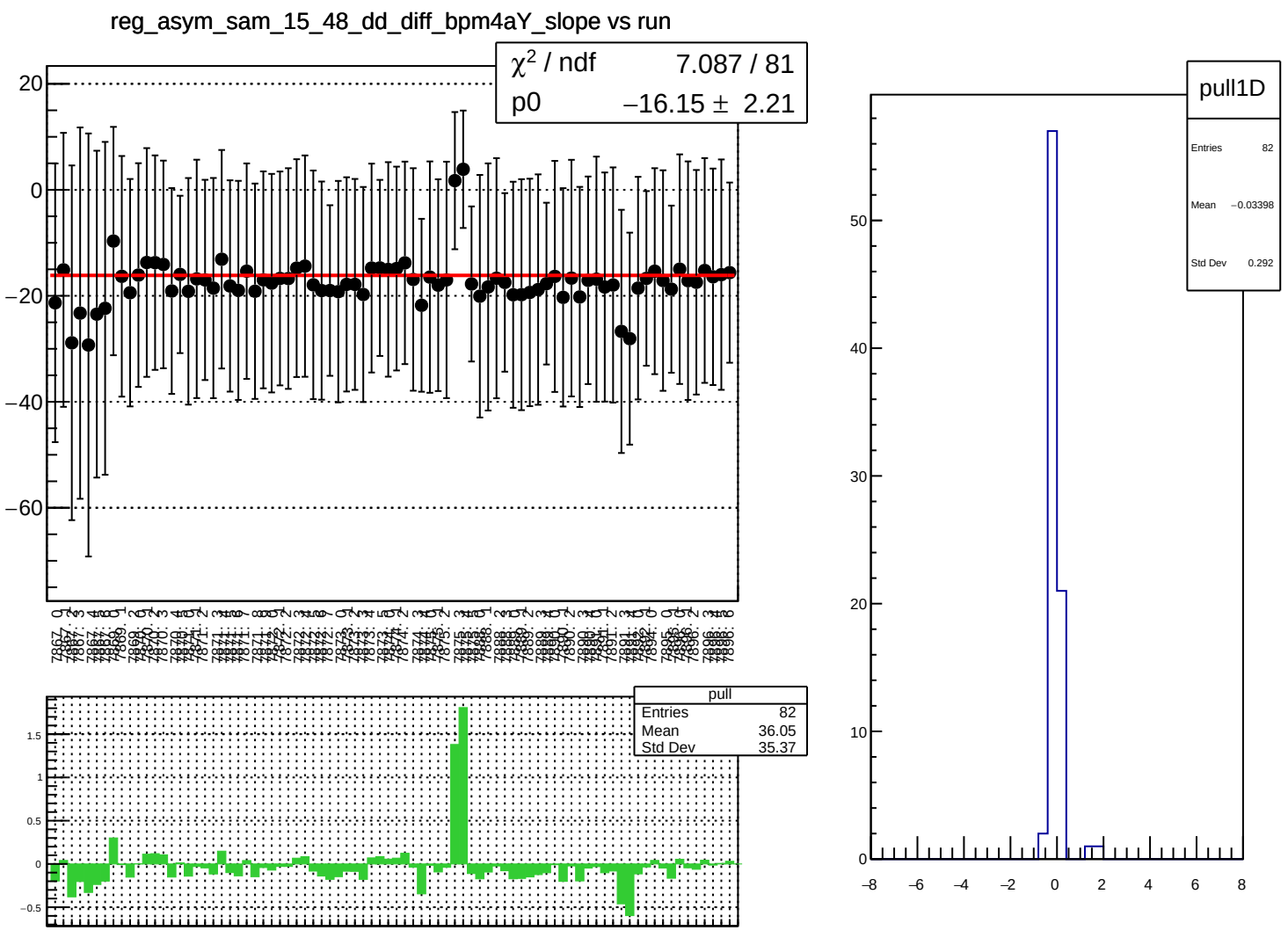

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.617 / 81
p0 −4.181 ± 3.359
pull
Entries 82
Mean −34.07
Std Dev 0
pull1D
Entries 82
Mean 0.01091
Std Dev 0.237

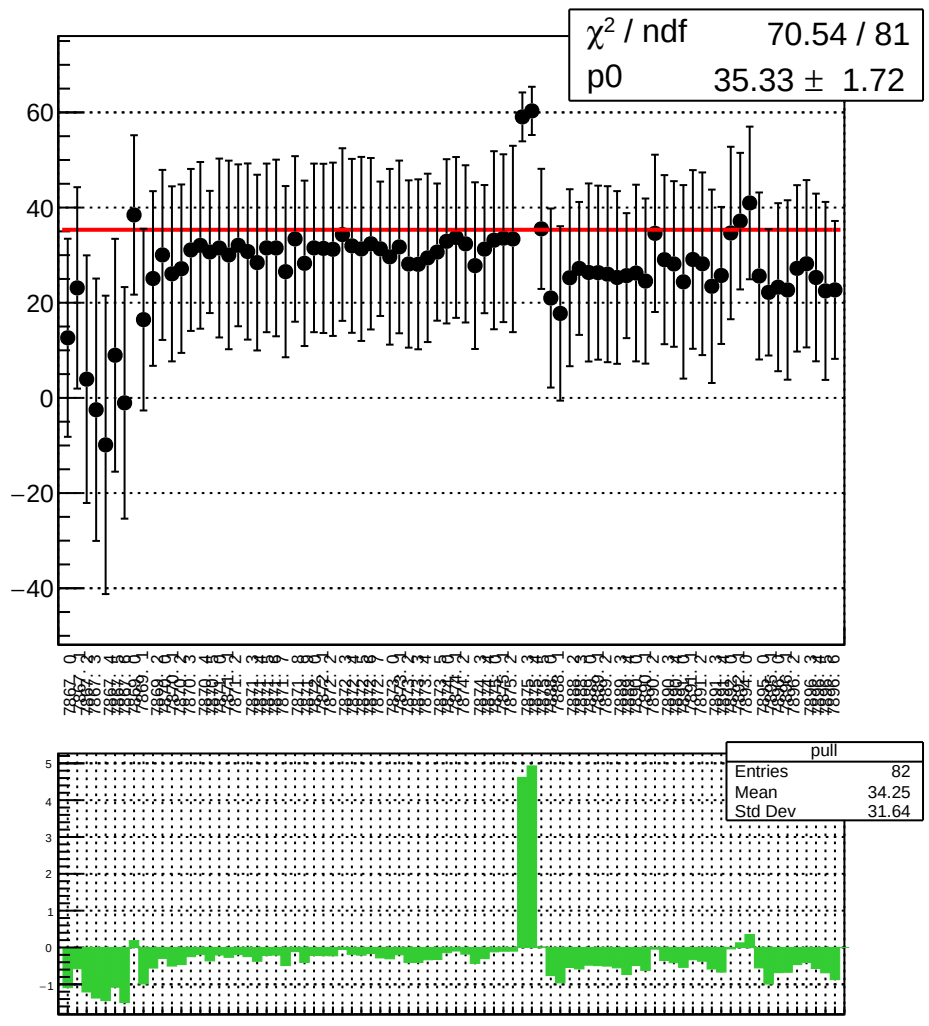

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 165.3 / 81
p0 −34.14 ± 2.598
150
100
50
0
−50
−100
pull
Entries 82
Mean 28.92
Std Dev 31.28
2
0
−2
−4
−6
−8
pull1D
Entries 82
Mean 0.4762
Std Dev 1.338
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

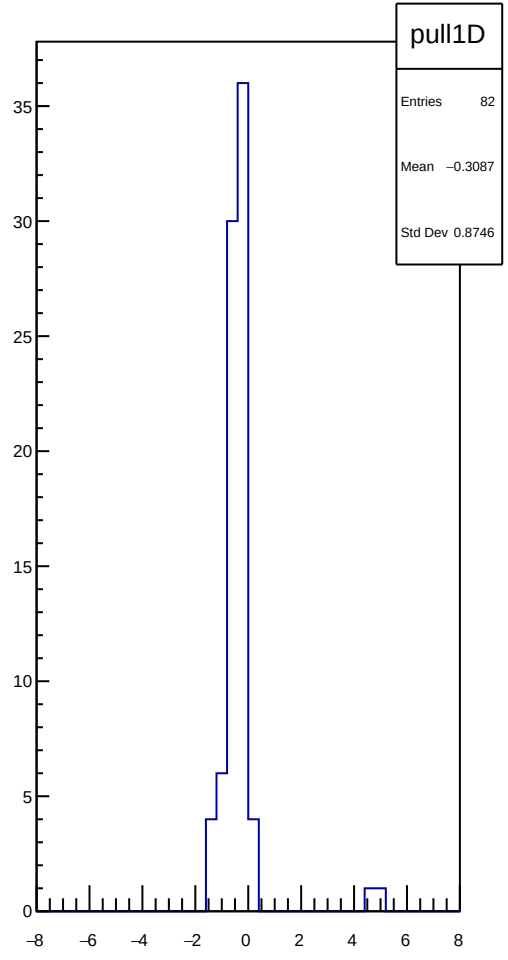

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.826 / 81
p0 −6.512 ± 3.889
pull
Entries 82
Mean −38.05
Std Dev 0
pull1D
Entries 82
Mean −0.01384
Std Dev 0.2422

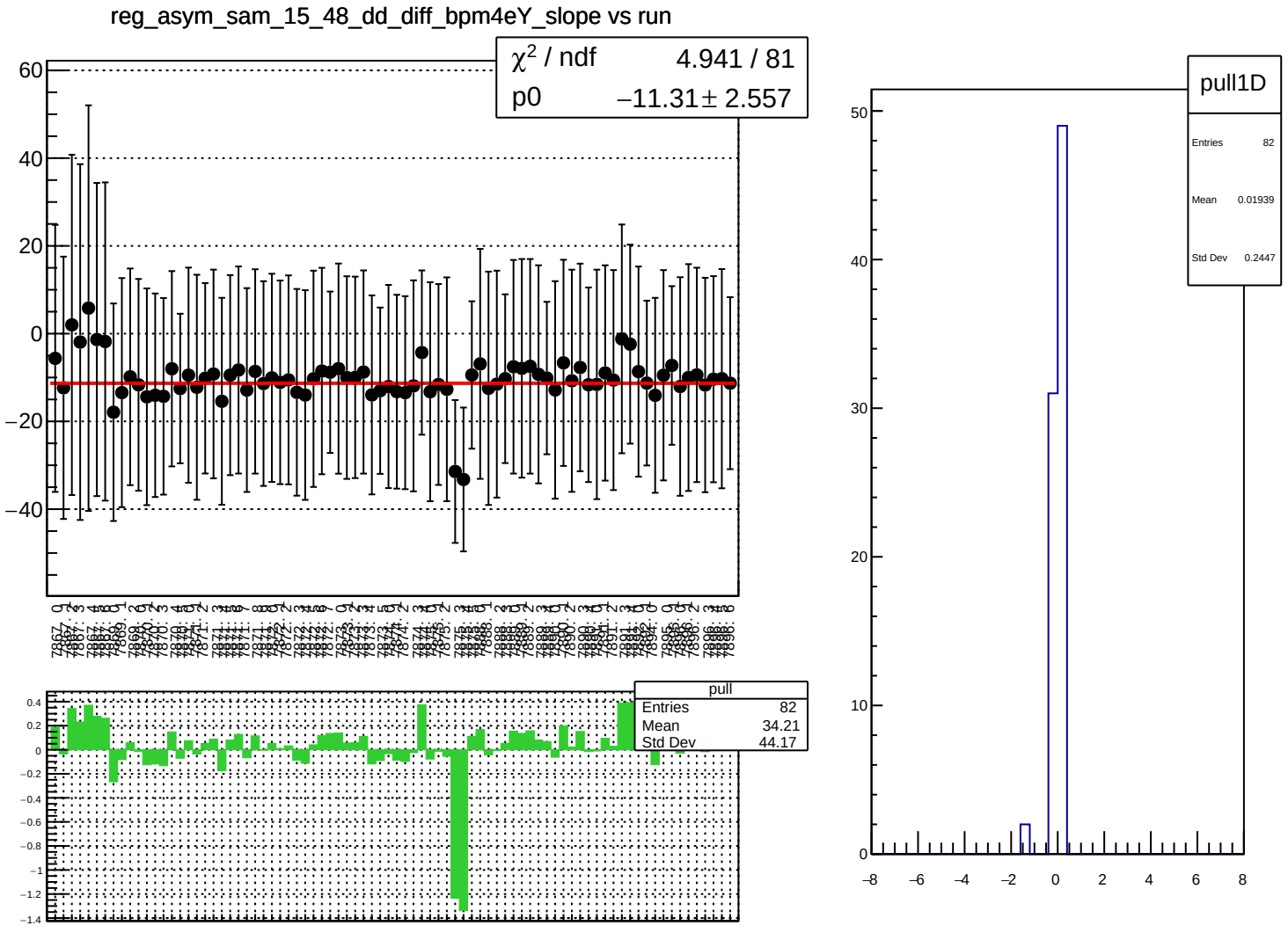

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 36.14 / 81
p0 −0.9164 ± 0.1219
pull
Entries 82
Mean −27.27
Std Dev 0
pull1D
Entries 82
Mean −0.05865
Std Dev 0.6613

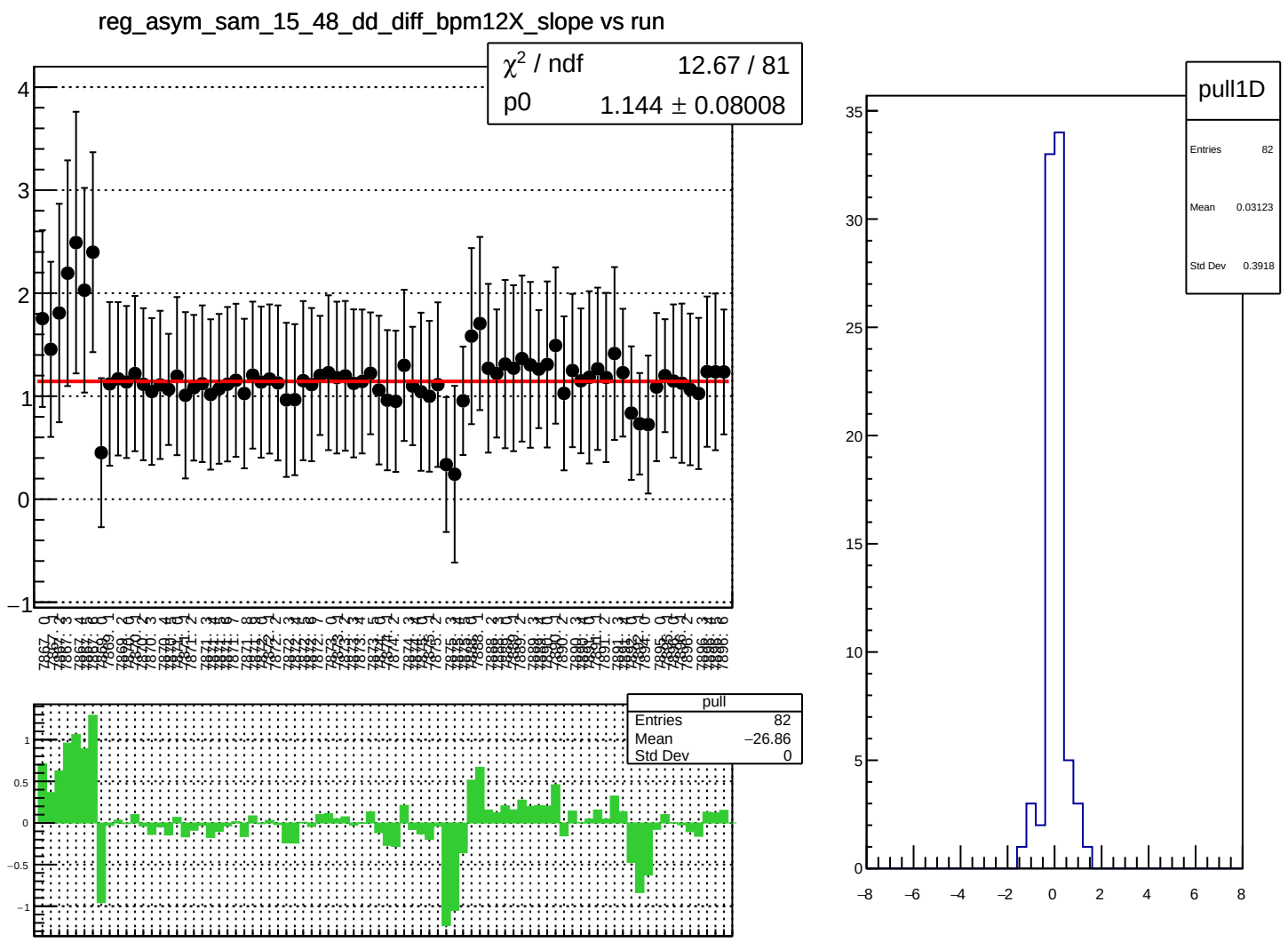

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 60.43 / 81
p0 24.19 ± 2.022
pull
Entries 82
Mean 30.97
Std Dev 32.23
pull1D
Entries 82
Mean 0.2478
Std Dev 0.8219

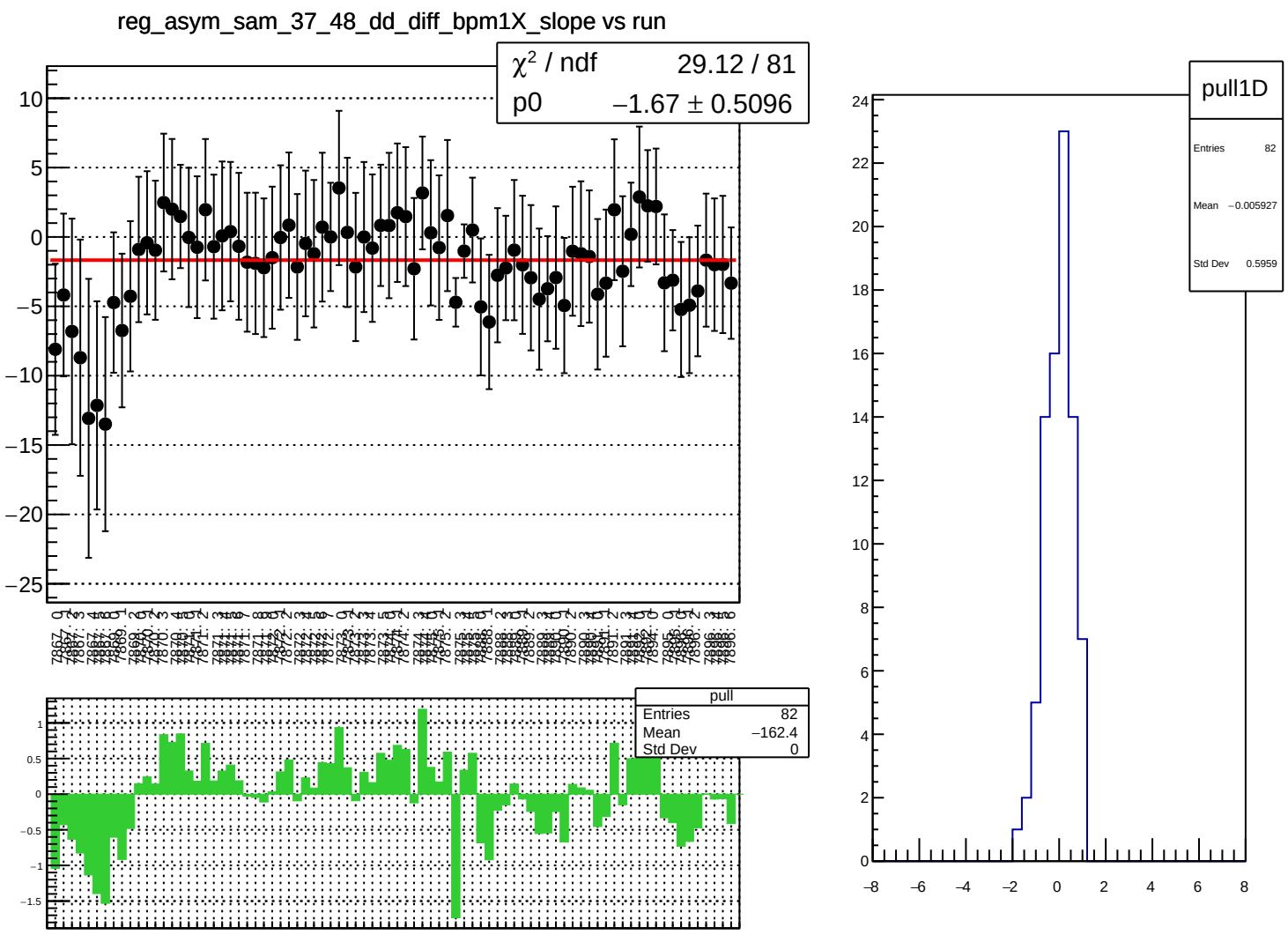

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.087 / 81
p0 −16.15 ± 2.21
pull
Entries 82
Mean 36.05
Std Dev 35.37
pull1D
Entries 82
Mean −0.03398
Std Dev 0.292

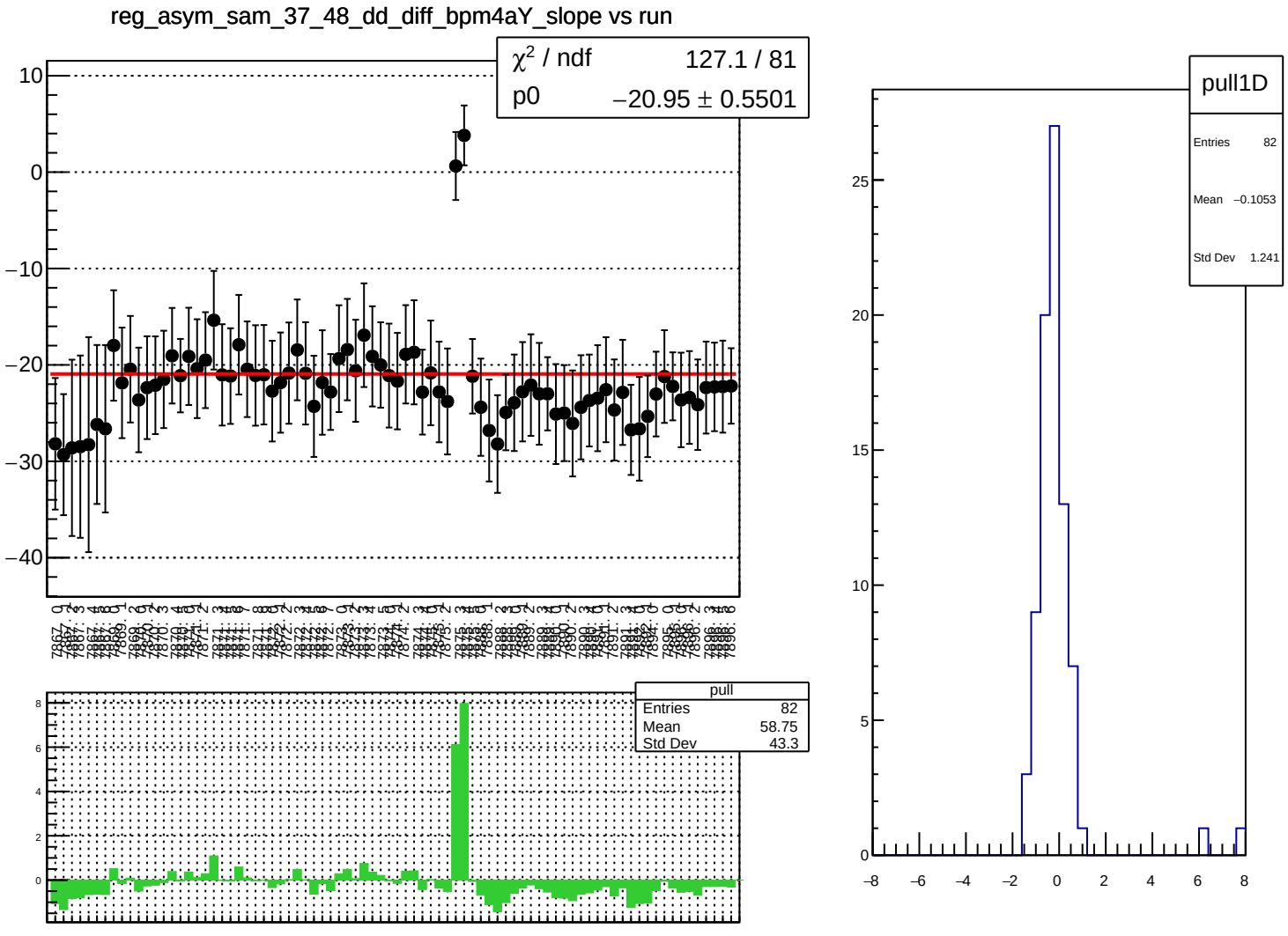

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.54 / 81
p0 35.33 ± 1.72
pull
Entries 82
Mean 34.25
Std Dev 31.64

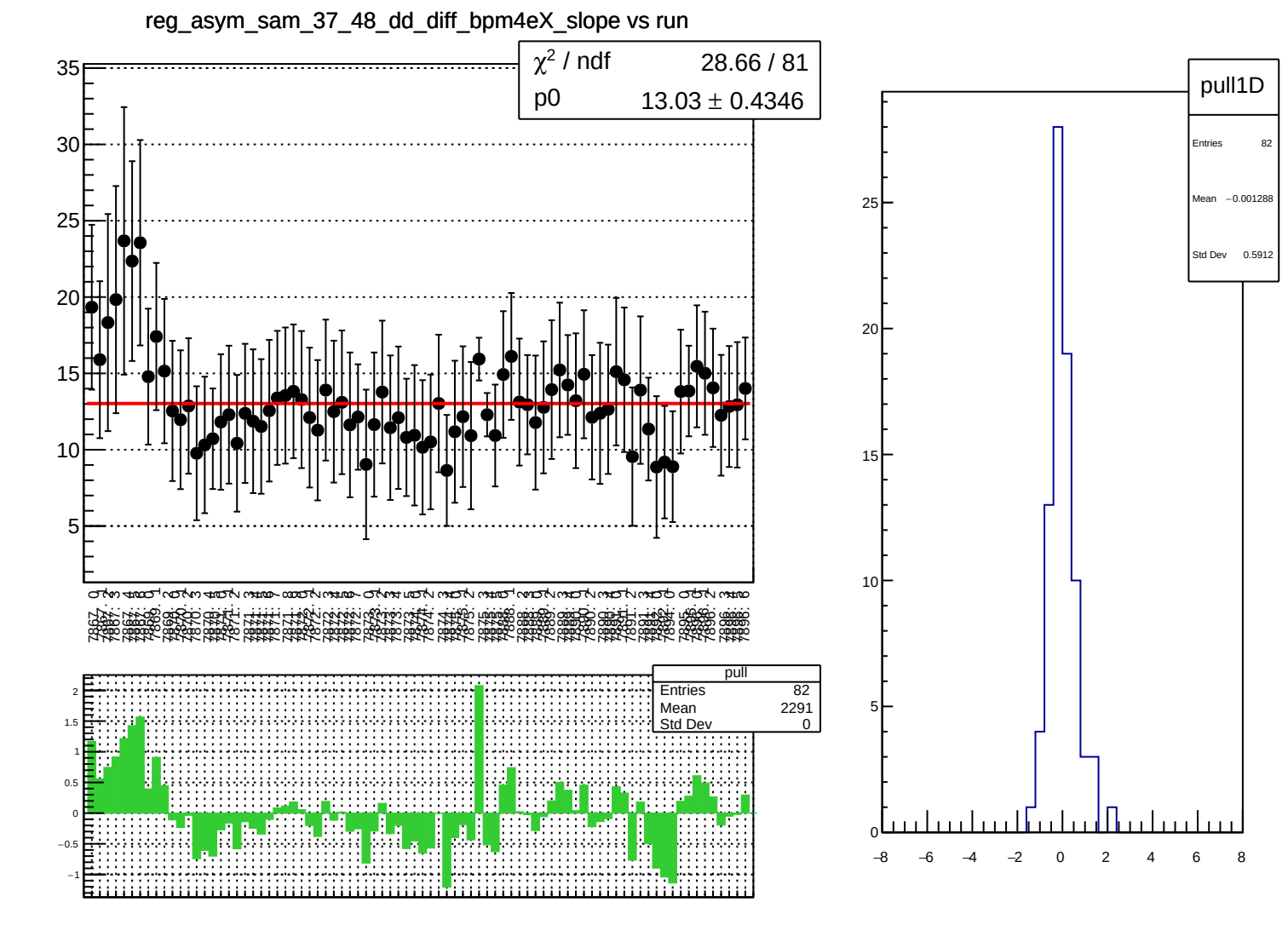

pull1D
Entries 82
Mean −0.3087
Std Dev 0.8746

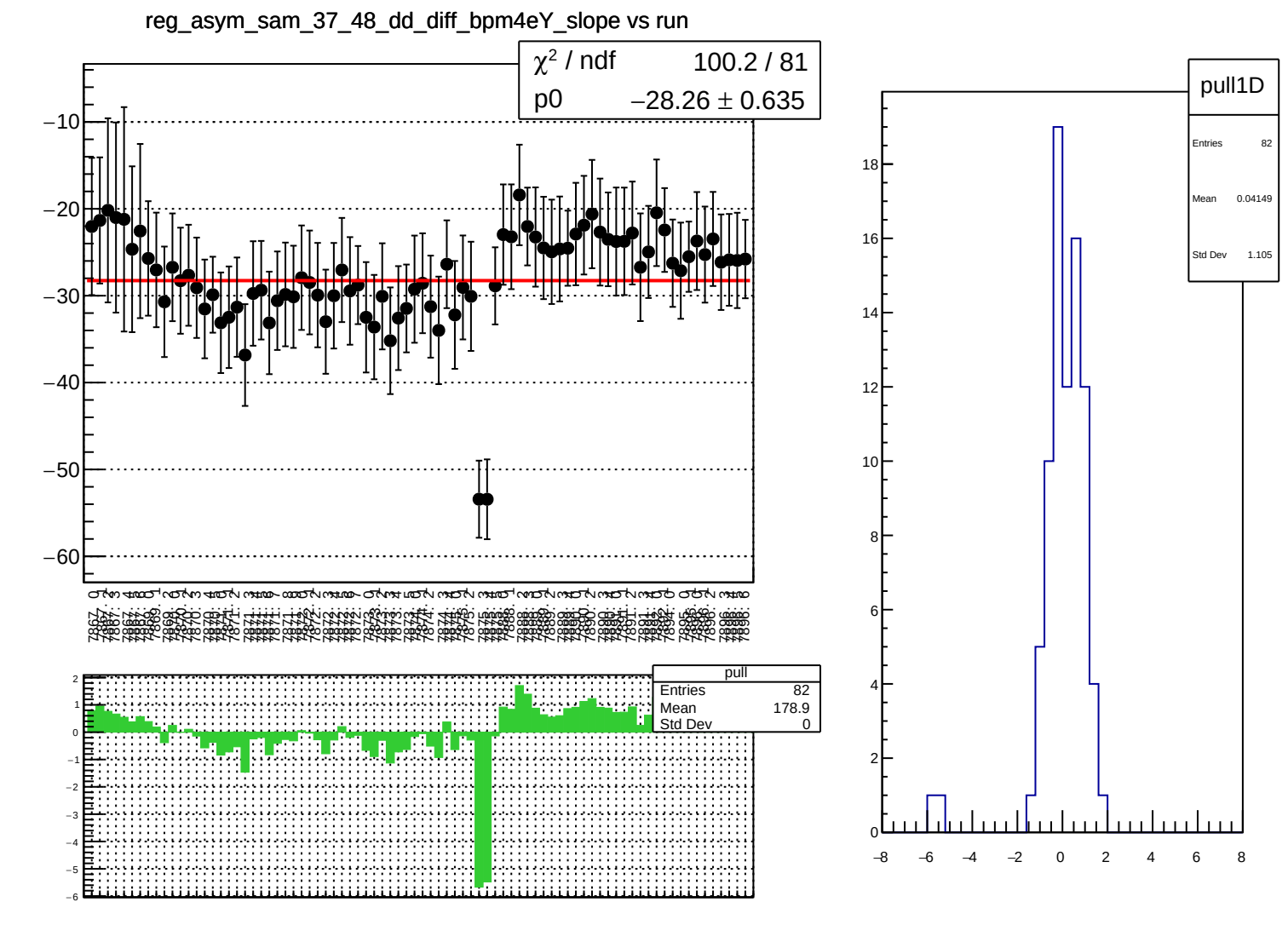

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.941 / 81
p0 −11.31 ± 2.557
pull
Entries 82
Mean 34.21
Std Dev 44.17
pull1D
Entries 82
Mean 0.01939
Std Dev 0.2447

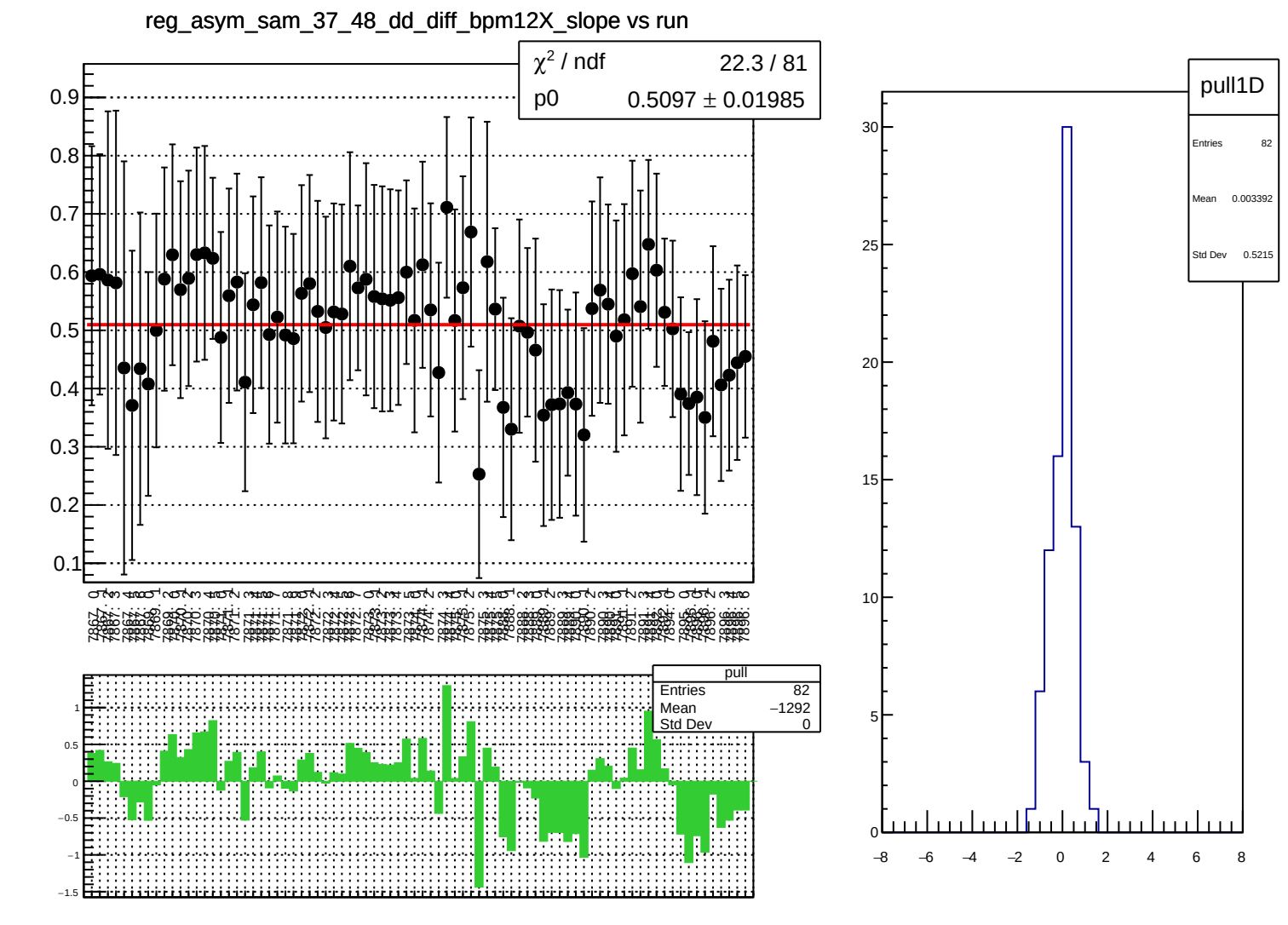

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.67 / 81
p0 1.144 ± 0.08008
pull
Entries 82
Mean −26.86
Std Dev 0
pull1D
Entries 82
Mean 0.03123
Std Dev 0.3918

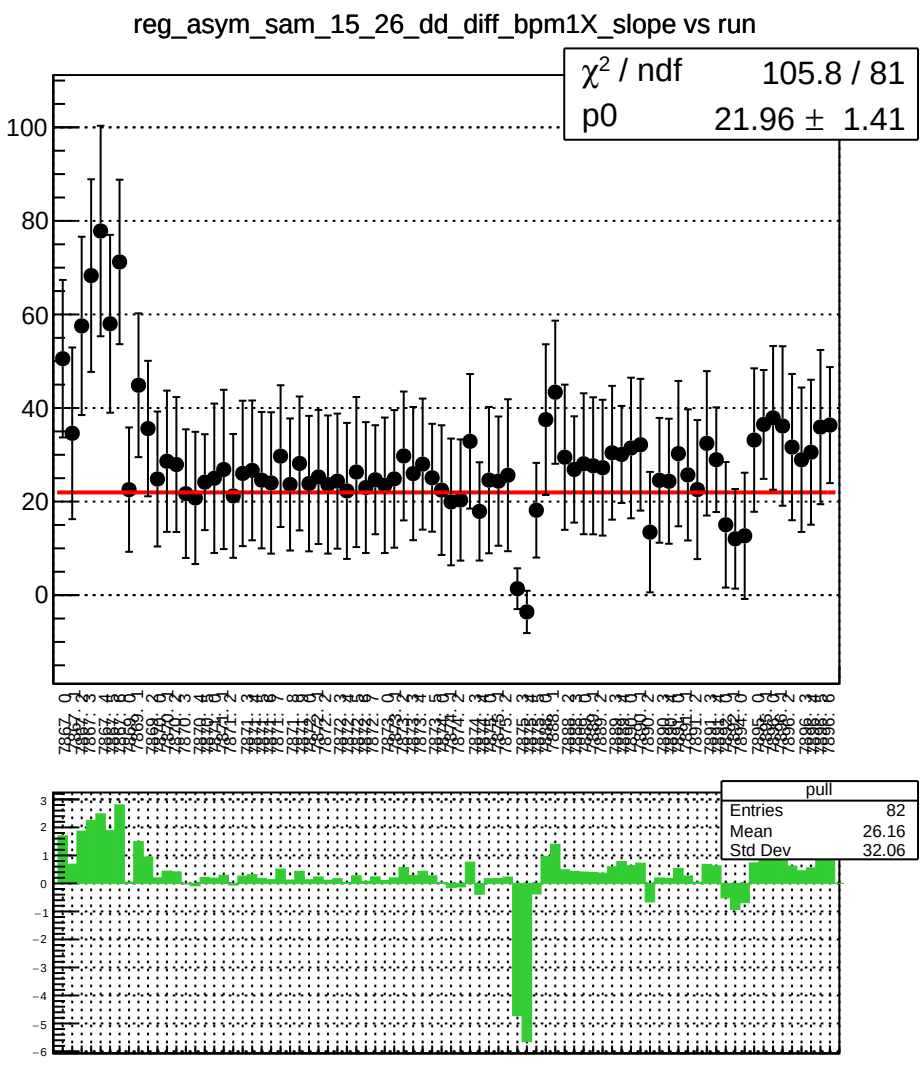

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 29.12 / 81
p0 −1.67 ± 0.5096
pull
Entries 82
Mean −162.4
Std Dev 0
pull1D
Entries 82
Mean −0.005927
Std Dev 0.5959

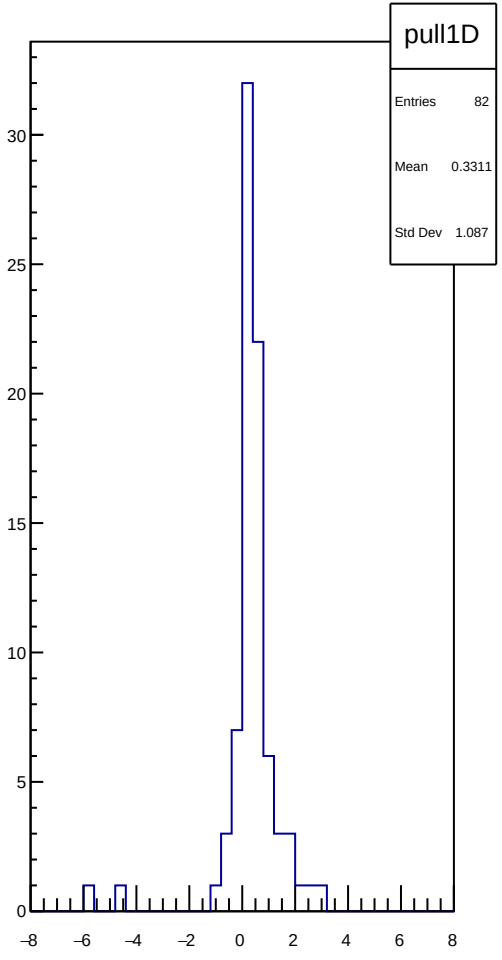

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 127.1 / 81
p0 −20.95 ± 0.5501
pull
Entries 82
Mean 58.75
Std Dev 43.3
pull1D
Entries 82
Mean −0.1053
Std Dev 1.241

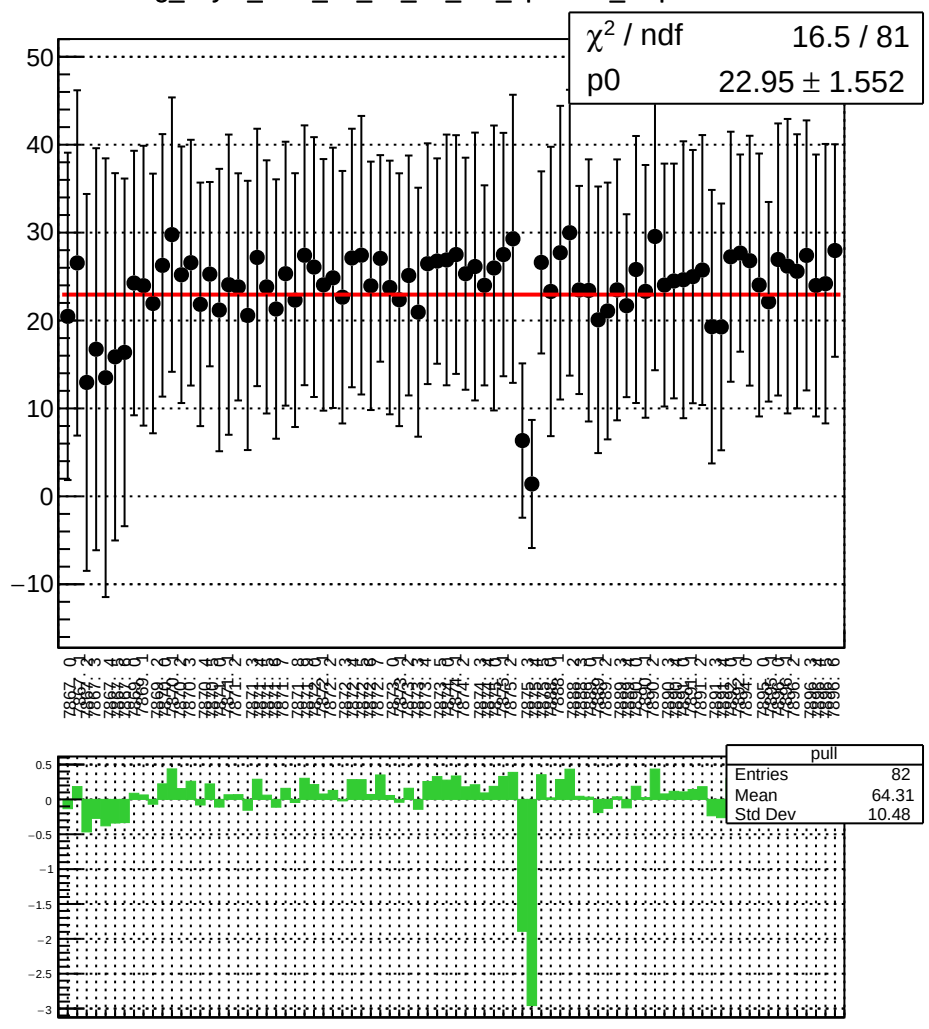

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.66 / 81
p0 13.03 ± 0.4346
pull
Entries 82
Mean 2291
Std Dev 0
pull1D
Entries 82
Mean −0.001288
Std Dev 0.5912

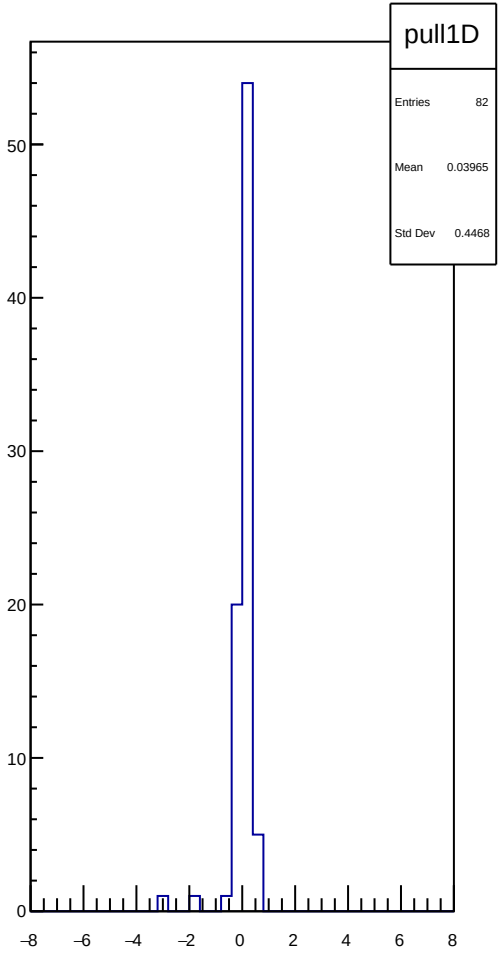

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.2 / 81
p0 −28.26 ± 0.635
pull
Entries 82
Mean 178.9
Std Dev 0
pull1D
Entries 82
Mean 0.04149
Std Dev 1.105

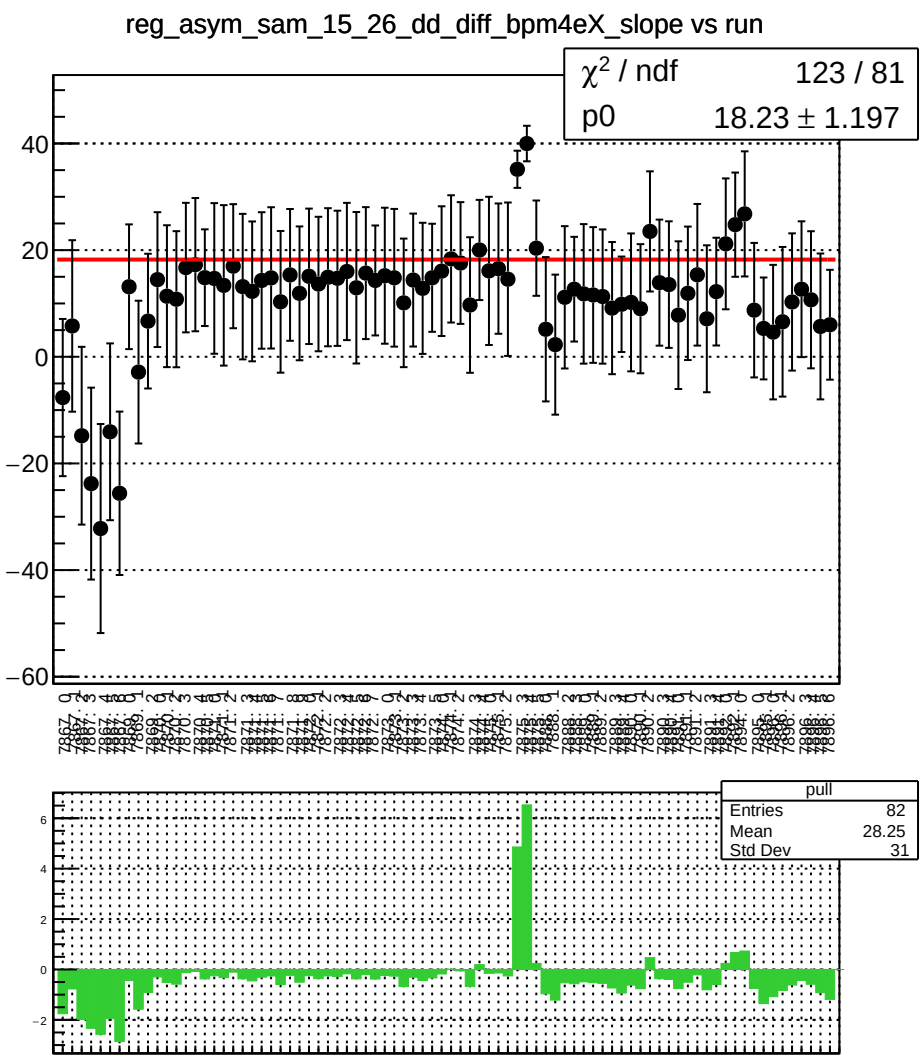

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 22.3 / 81
p0 0.5097 ± 0.01985
pull
Entries 82
Mean −1292
Std Dev 0
pull1D
Entries 82
Mean 0.003392
Std Dev 0.5215

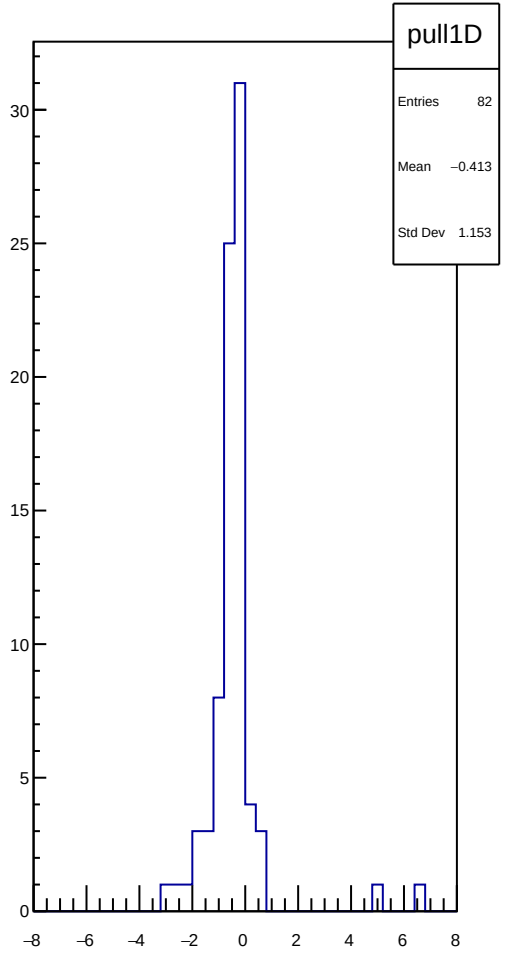

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 105.8 / 81
p0 21.96 ± 1.41
pull
Entries 82
Mean 26.16
Std Dev 32.06

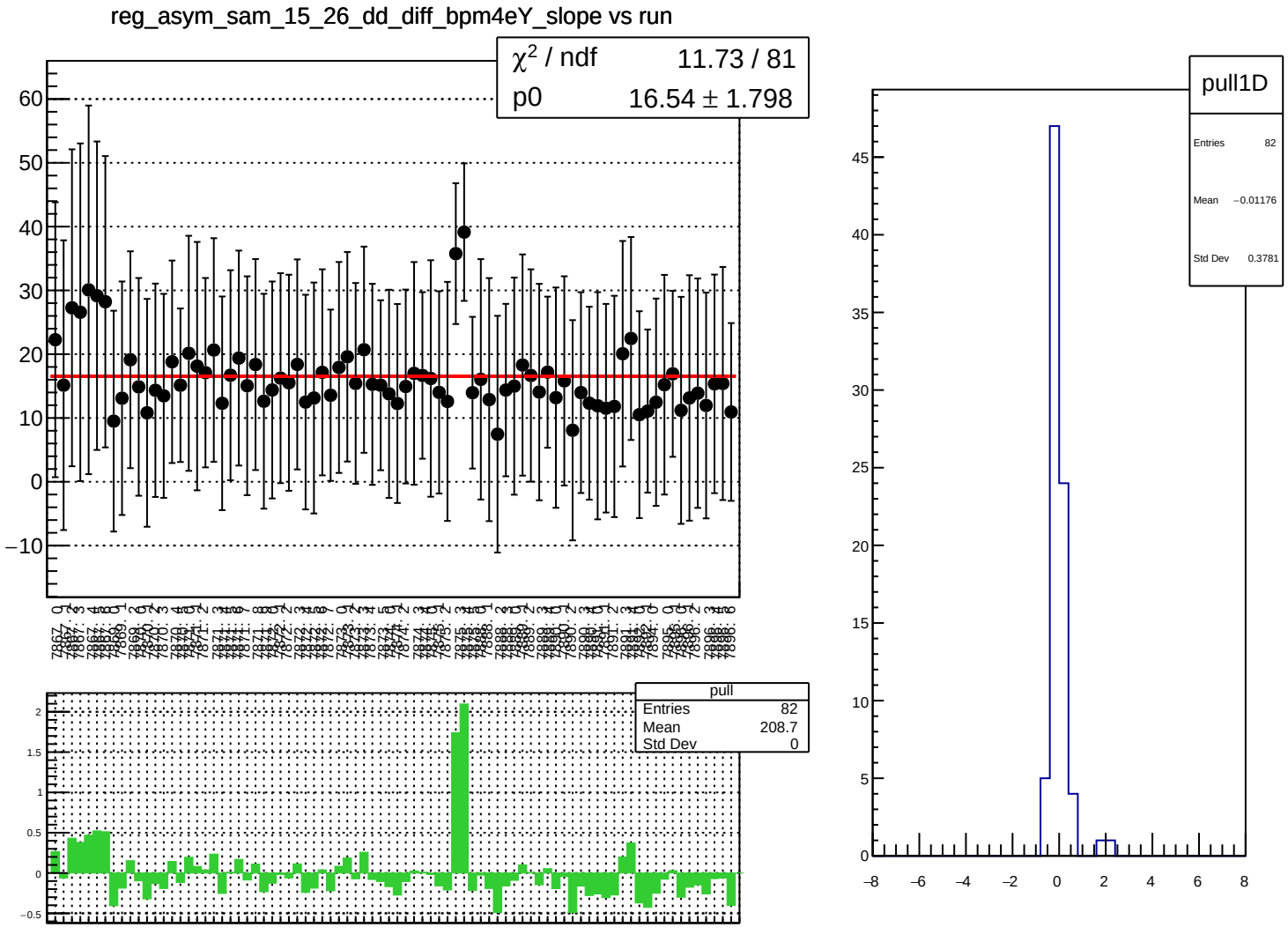

pull1D
Entries 82
Mean 0.3311
Std Dev 1.087

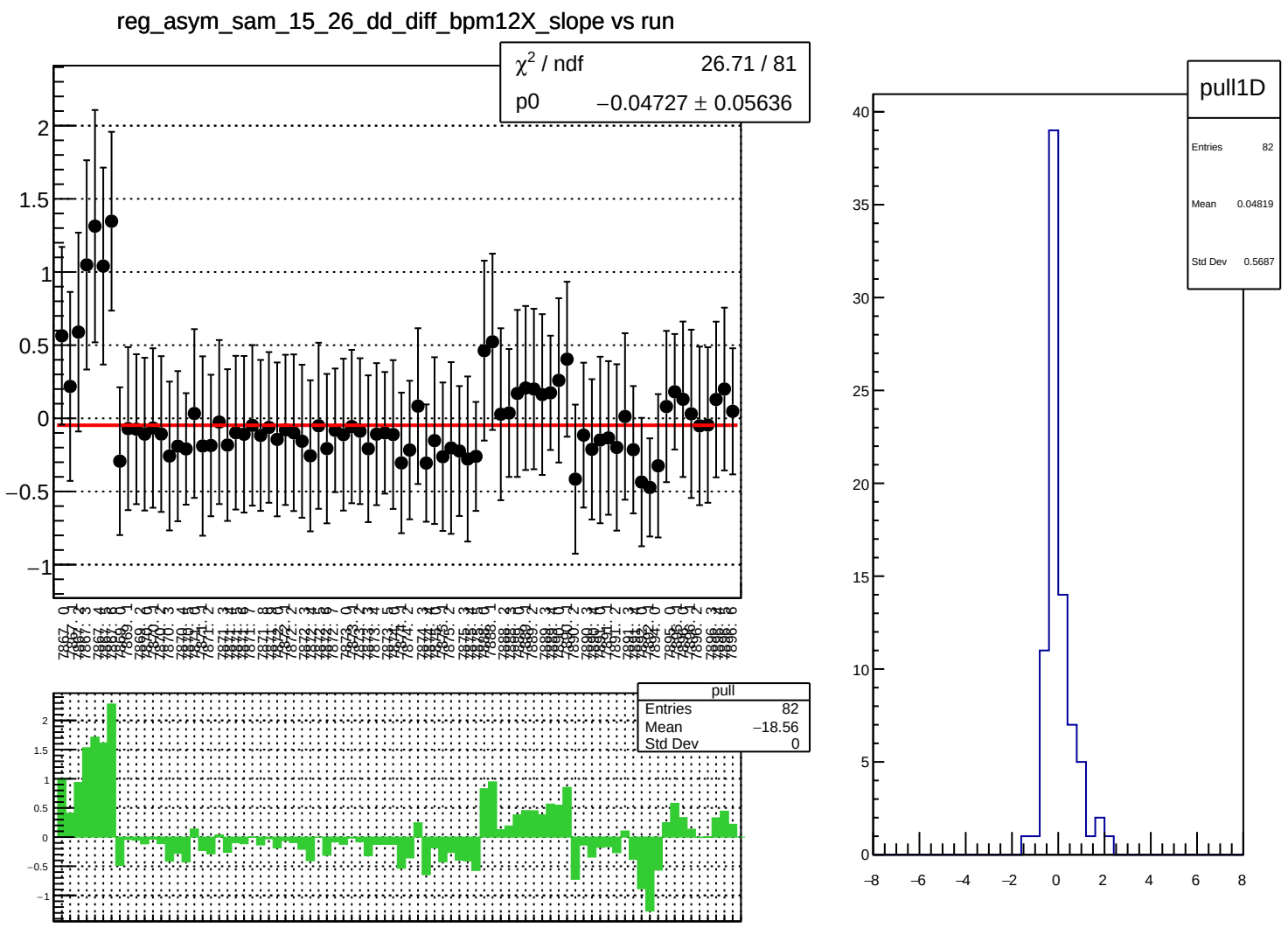

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.5 / 81
p0 22.95 ± 1.552
pull
Entries 82
Mean 64.31
Std Dev 10.48

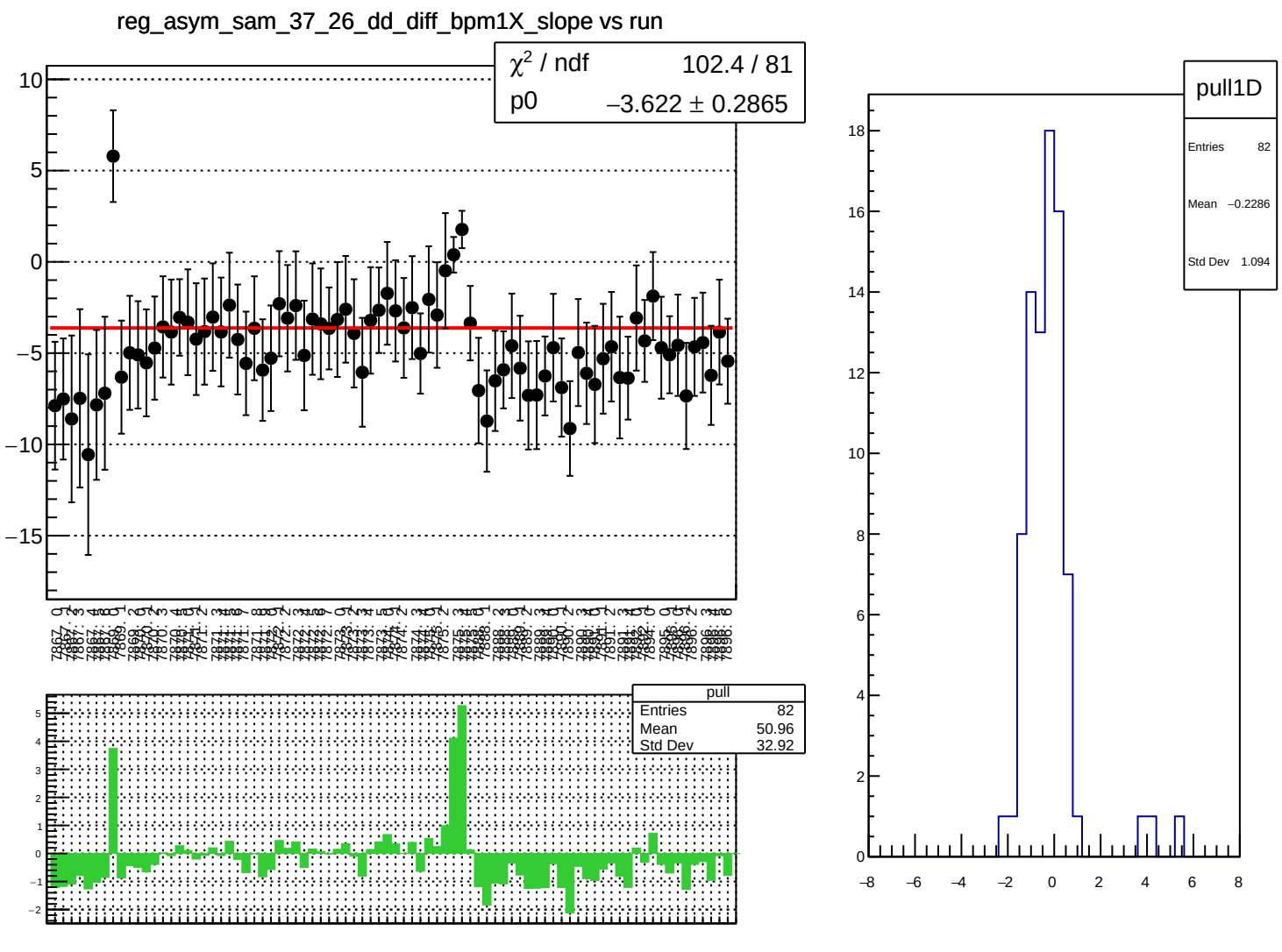

pull1D
Entries 82
Mean 0.03965
Std Dev 0.4468

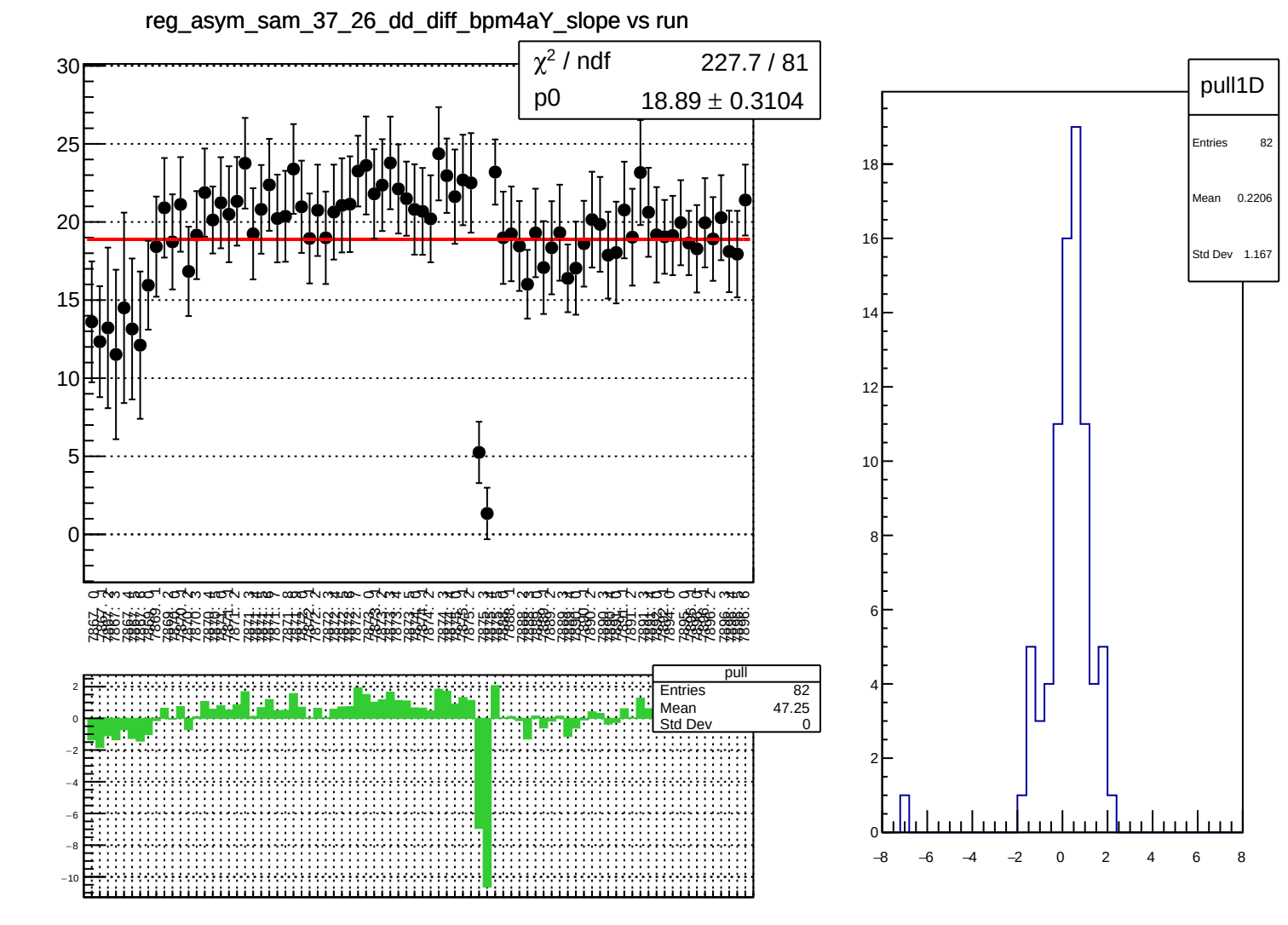

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 123 / 81
p0 18.23 ± 1.197
pull
Entries 82
Mean 28.25
Std Dev 31

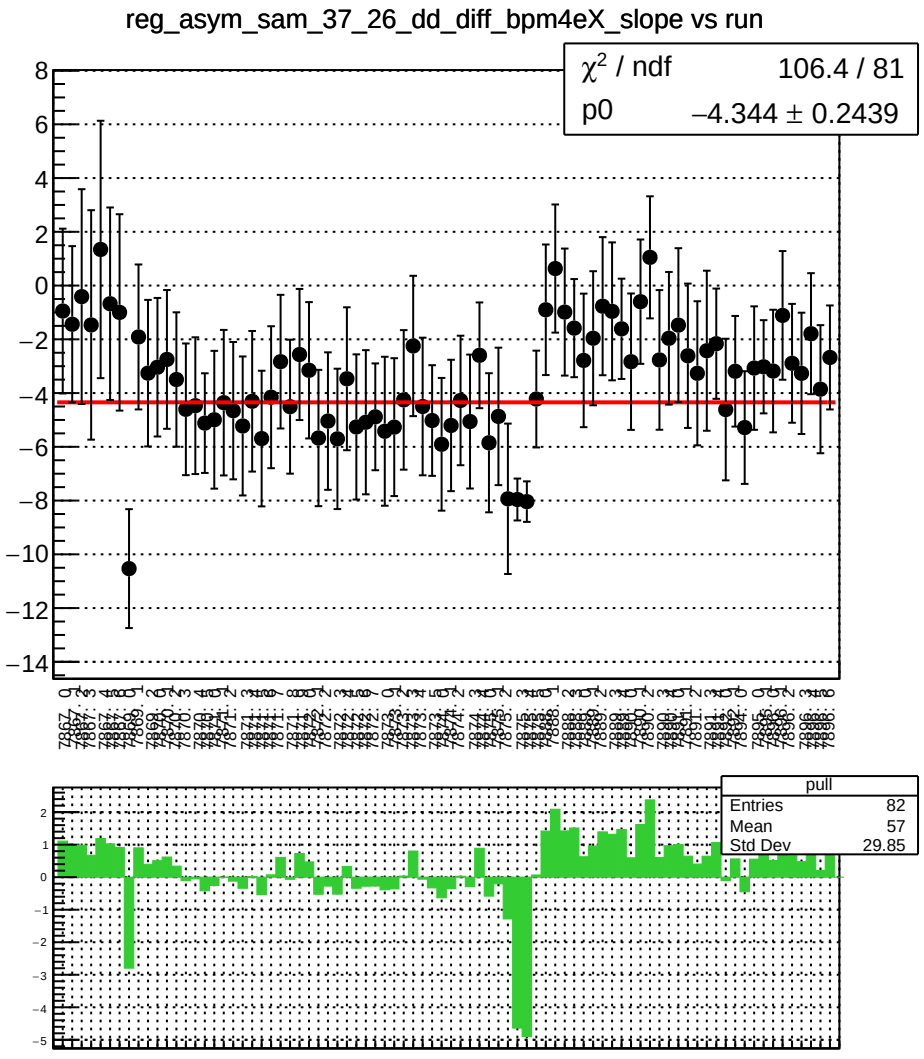

pull1D
Entries 82
Mean −0.413
Std Dev 1.153

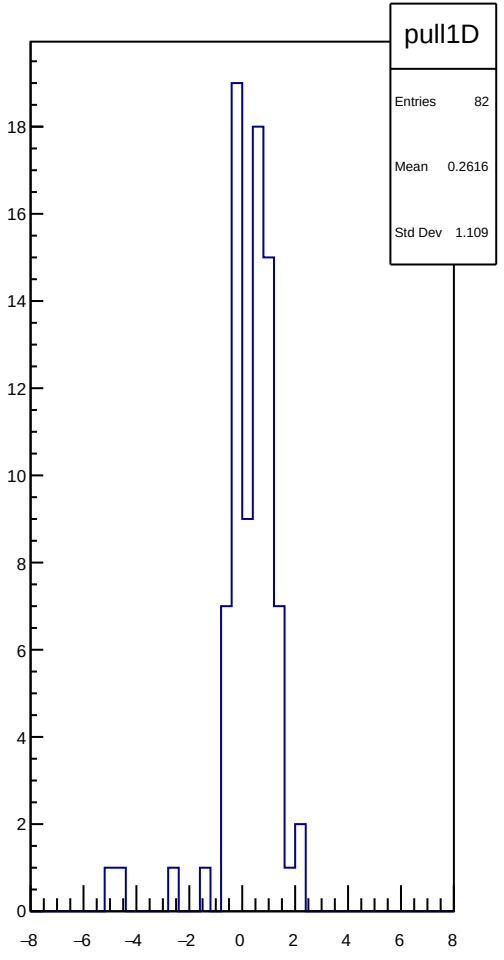

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.73 / 81
p0 16.54 ± 1.798
pull
Entries 82
Mean 208.7
Std Dev 0
pull1D
Entries 82
Mean −0.01176
Std Dev 0.3781

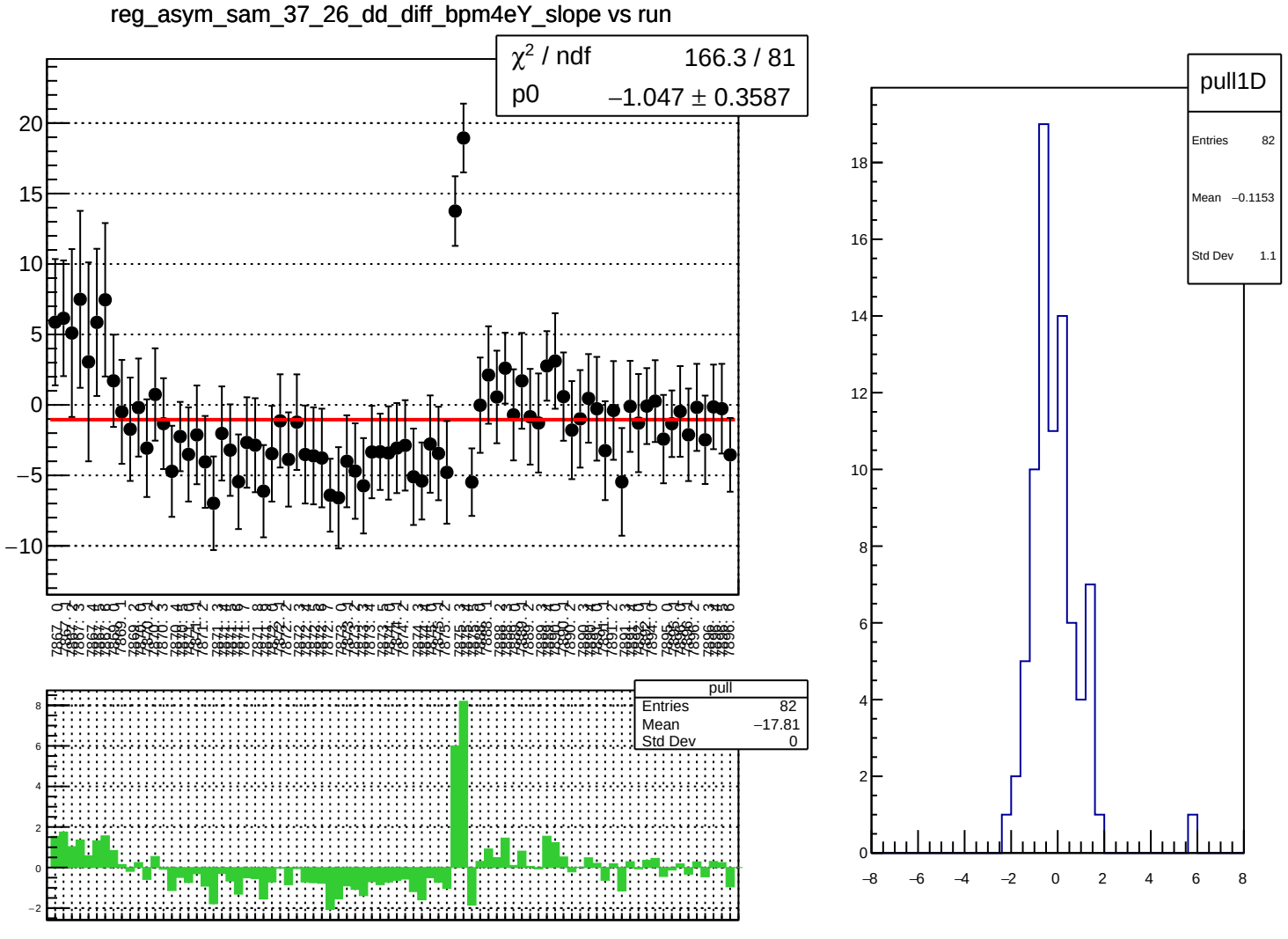

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 26.71 / 81
p0 −0.04727 ± 0.05636
pull
Entries 82
Mean −18.56
Std Dev 0
pull1D
Entries 82
Mean 0.04819
Std Dev 0.5687

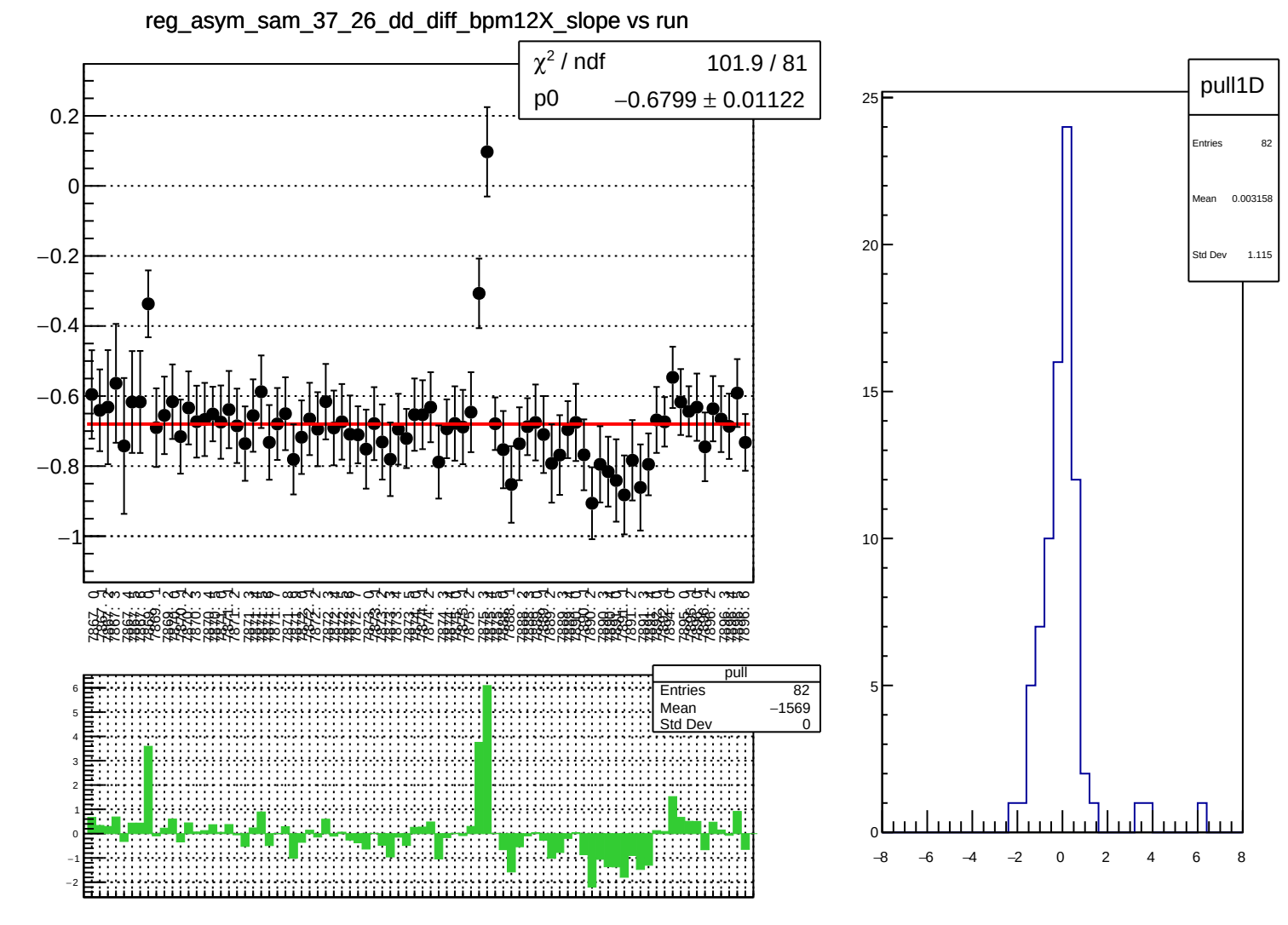

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 102.4 / 81
p0 −3.622 ± 0.2865
pull
Entries 82
Mean 50.96
Std Dev 32.92
pull1D
Entries 82
Mean −0.2286
Std Dev 1.094

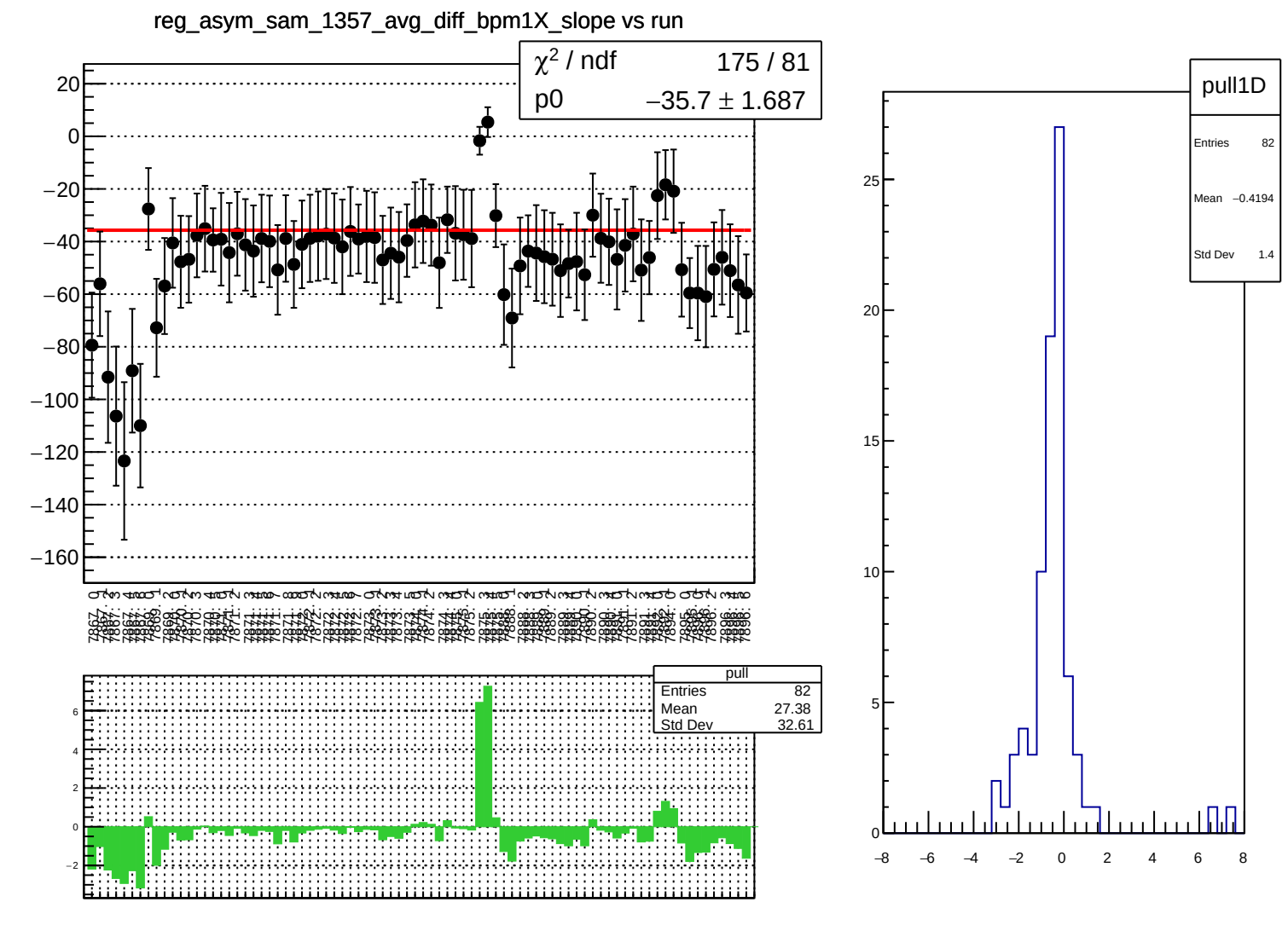

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 227.7 / 81
p0 18.89 ± 0.3104
pull
Entries 82
Mean 47.25
Std Dev 0
pull1D
Entries 82
Mean 0.2206
Std Dev 1.167

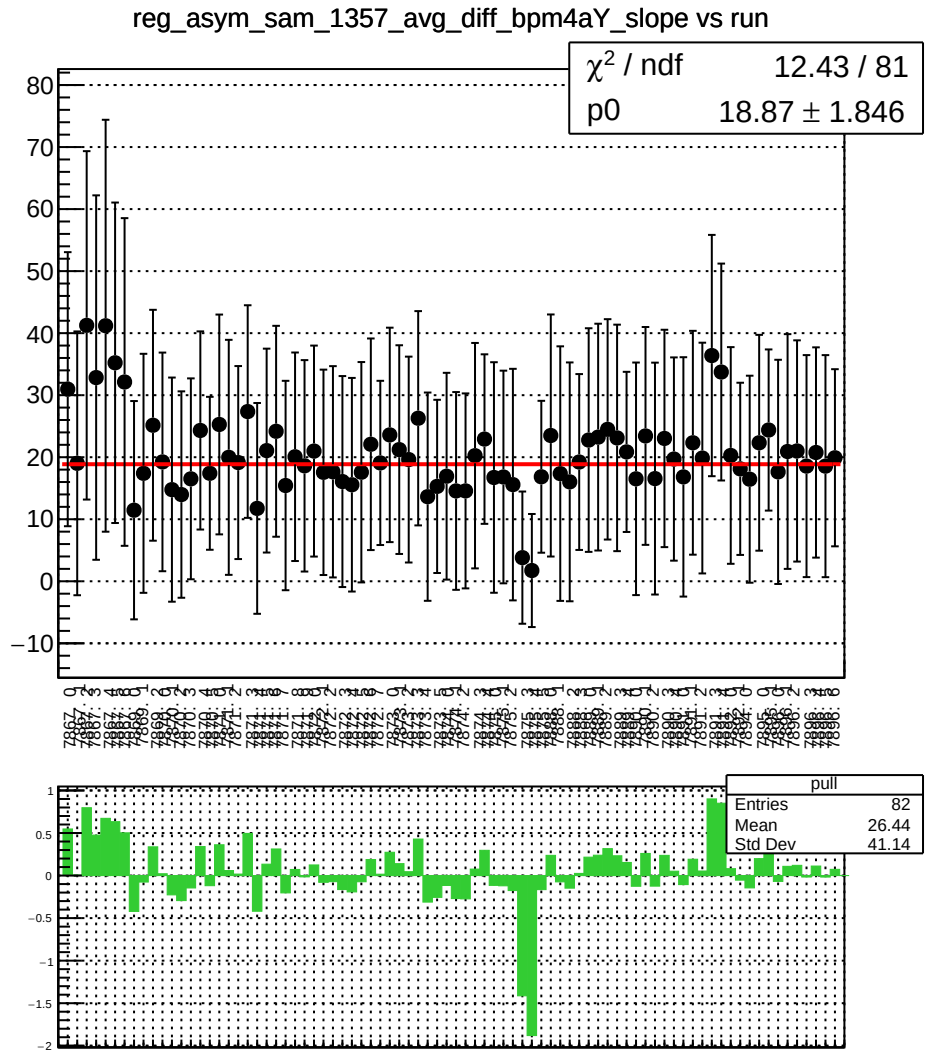

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.4 / 81
p0 −4.344 ± 0.2439
pull
Entries 82
Mean 57
Std Dev 29.85

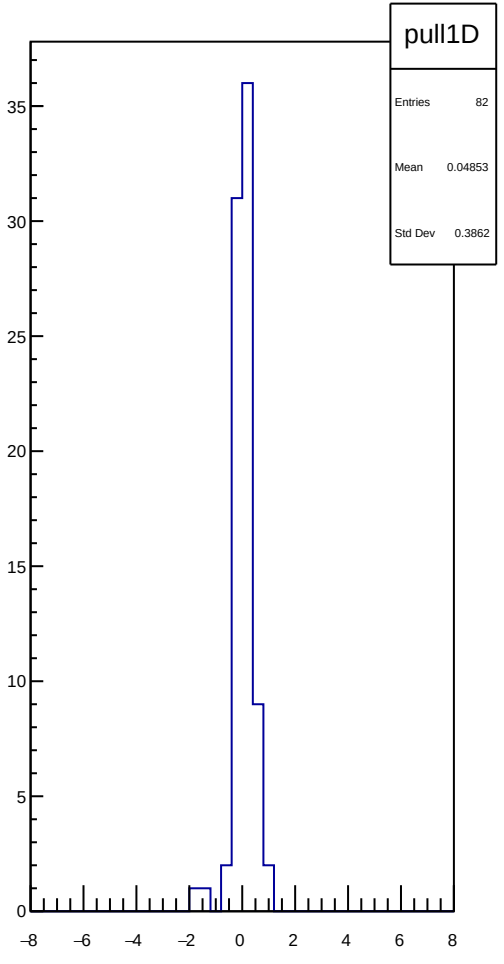

pull1D
Entries 82
Mean 0.2616
Std Dev 1.109

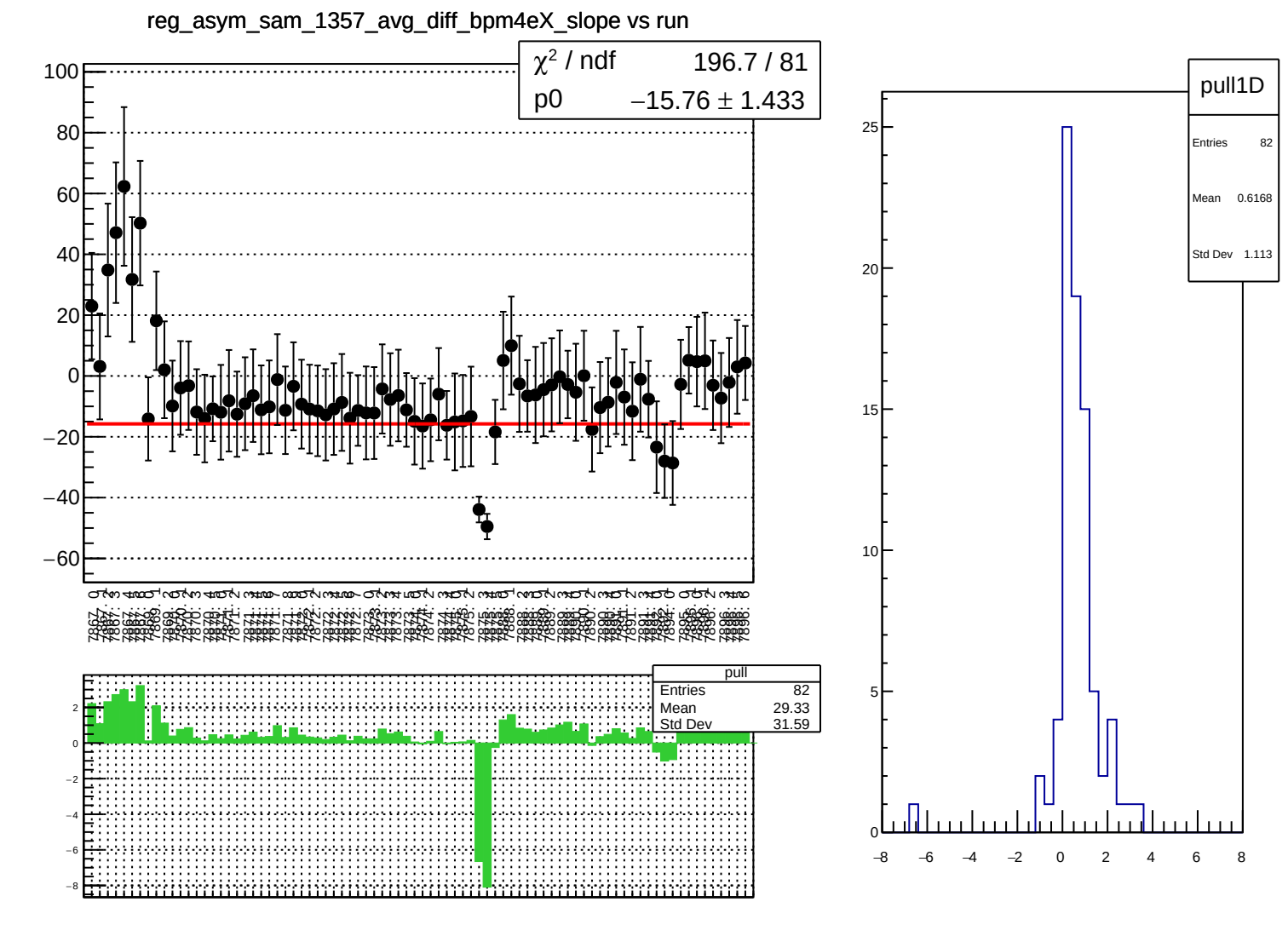

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 166.3 / 81
p0 −1.047 ± 0.3587
pull
Entries 82
Mean −17.81
Std Dev 0
pull1D
Entries 82
Mean −0.1153
Std Dev 1.1

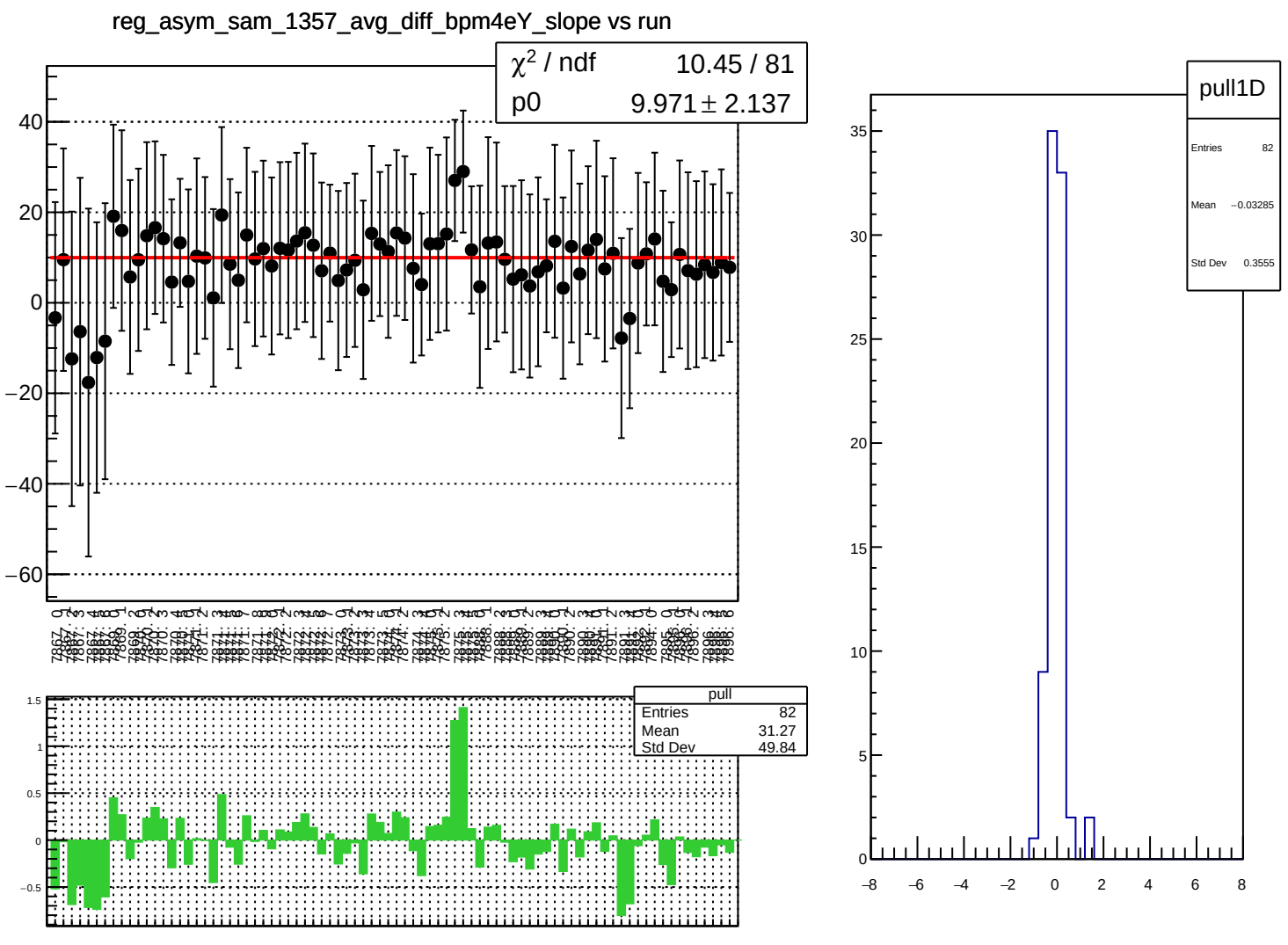

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 101.9 / 81
p0 −0.6799 ± 0.01122
pull
Entries 82
Mean −1569
Std Dev 0
pull1D
Entries 82
Mean 0.003158
Std Dev 1.115

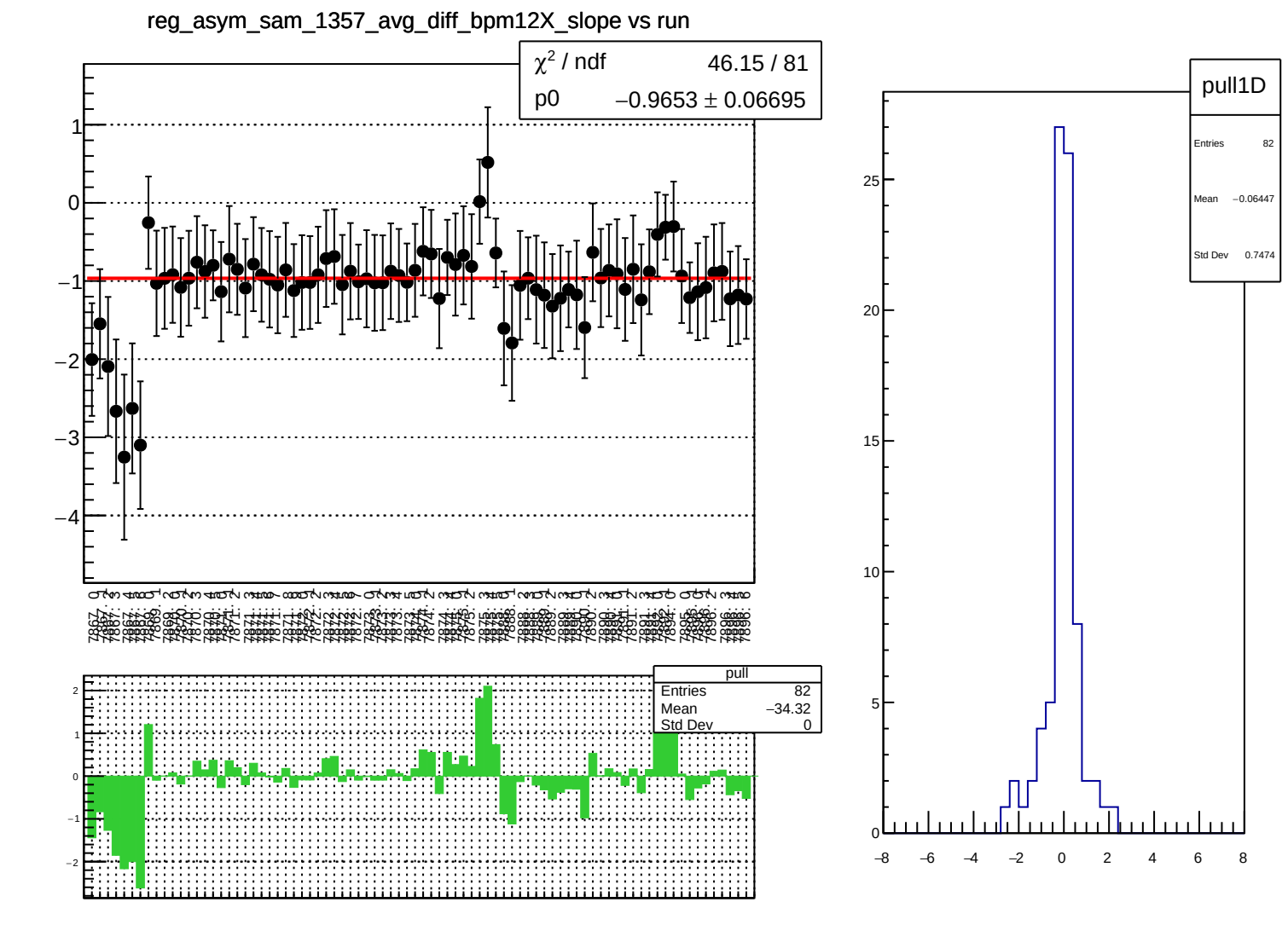

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 175 / 81
p0 −35.7 ± 1.687
pull
Entries 82
Mean 27.38
Std Dev 32.61
pull1D
Entries 82
Mean −0.4194
Std Dev 1.4

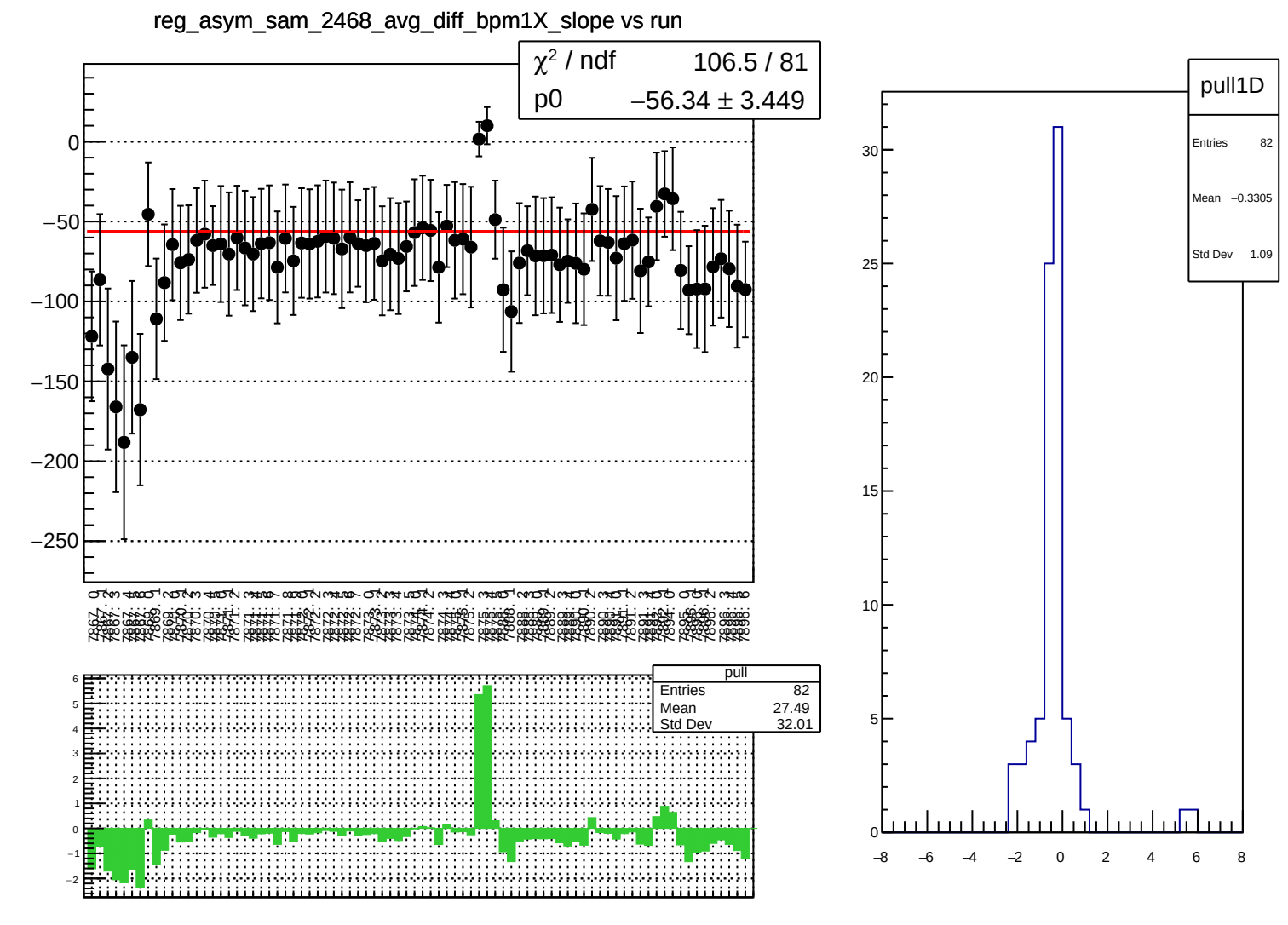

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 81
p0 18.87 ± 1.846
pull
Entries 82
Mean 26.44
Std Dev 41.14

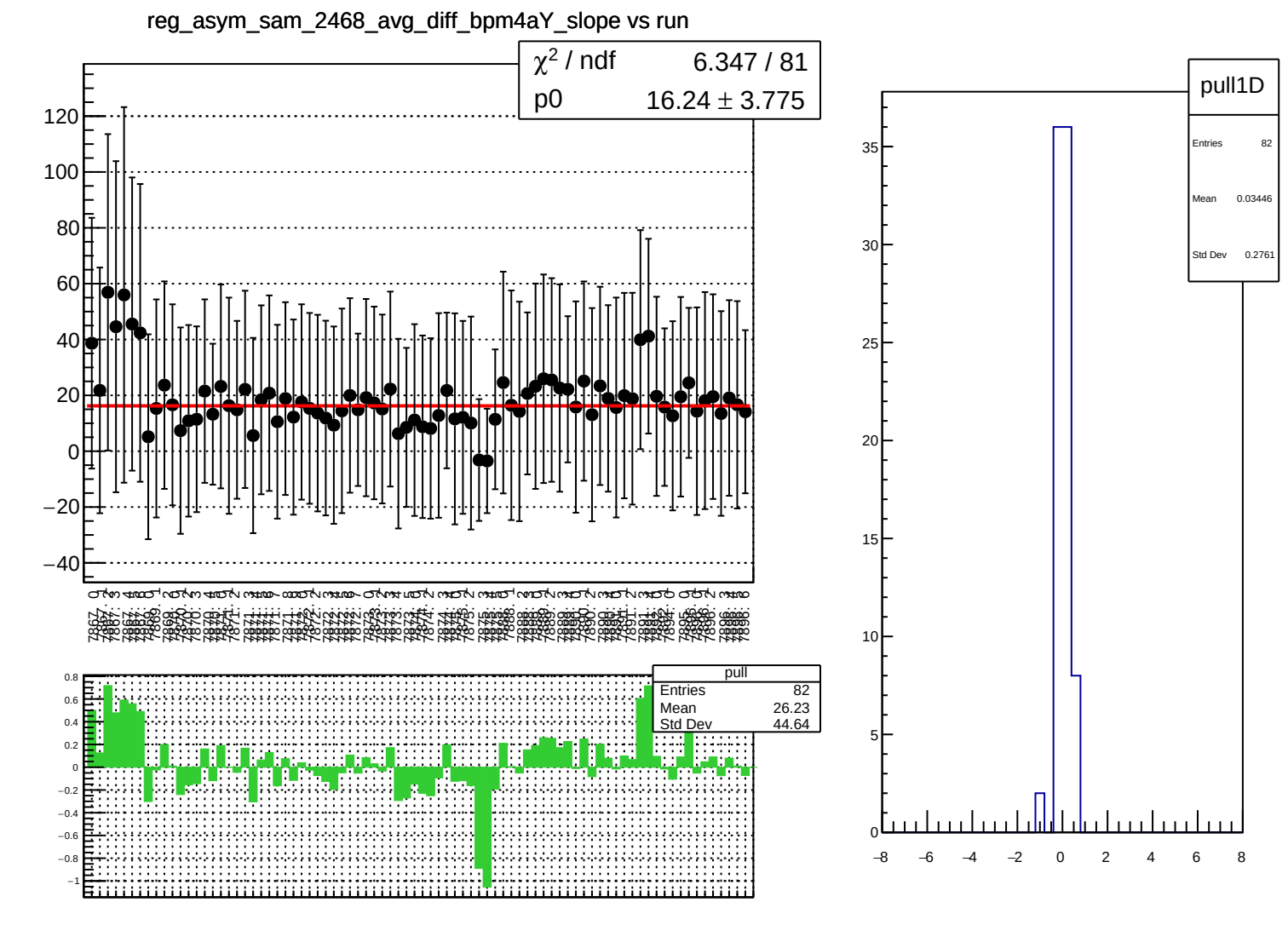

pull1D
Entries 82
Mean 0.04853
Std Dev 0.3862

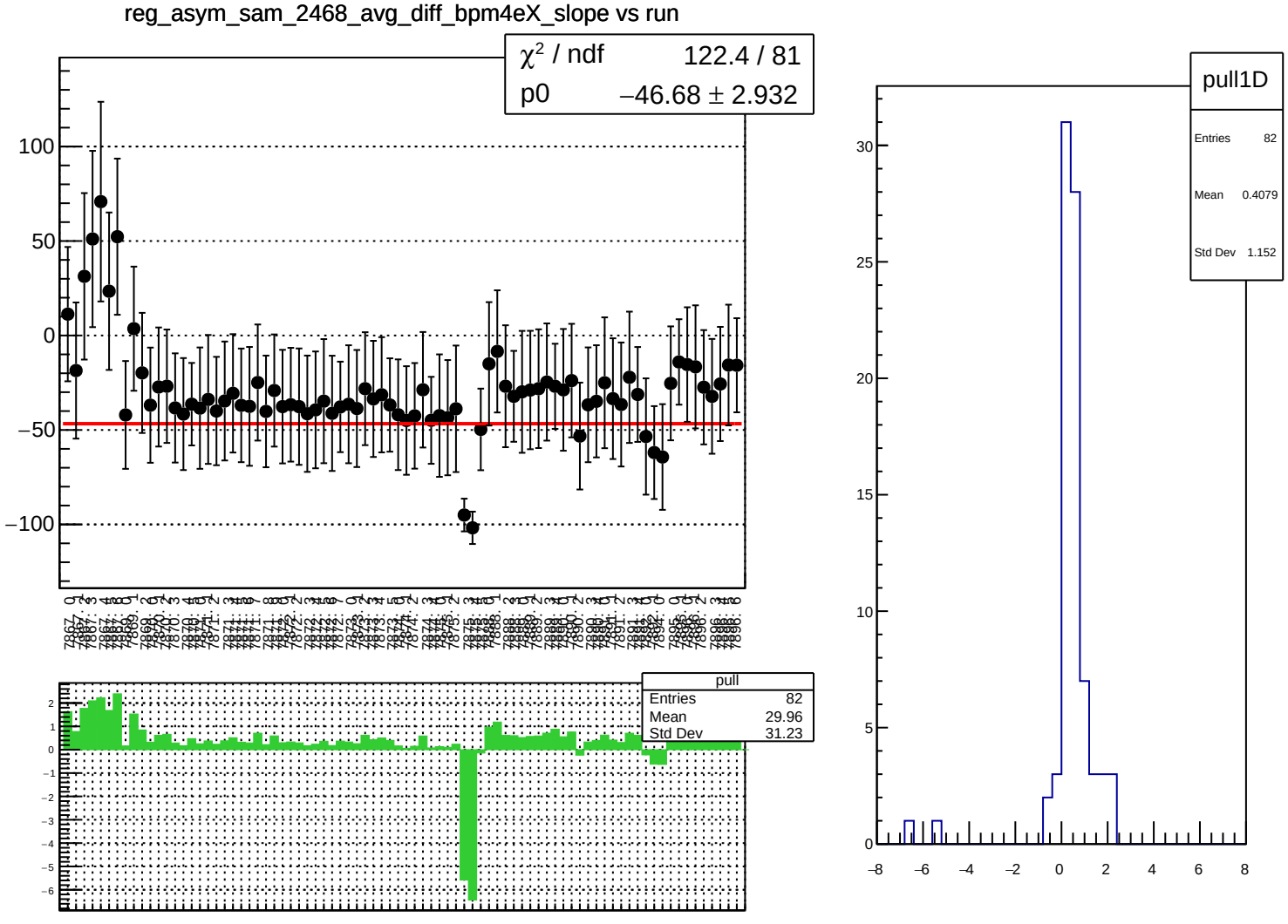

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 196.7 / 81
p0 −15.76 ± 1.433
pull
Entries 82
Mean 29.33
Std Dev 31.59
pull1D
Entries 82
Mean 0.6168
Std Dev 1.113

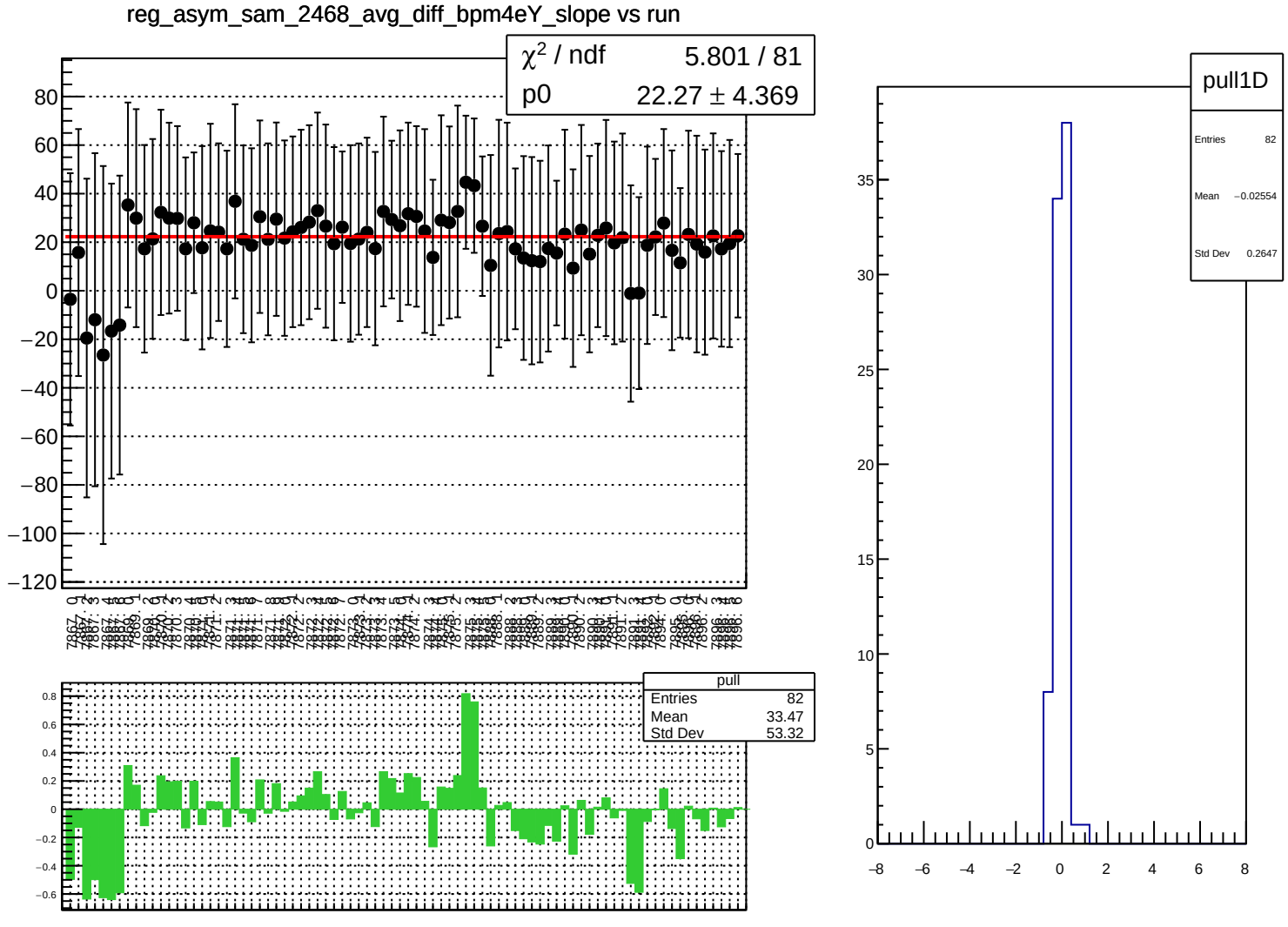

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.45 / 81
p0 9.971 ± 2.137
pull
Entries 82
Mean 31.27
Std Dev 49.84
pull1D
Entries 82
Mean −0.03285
Std Dev 0.3555

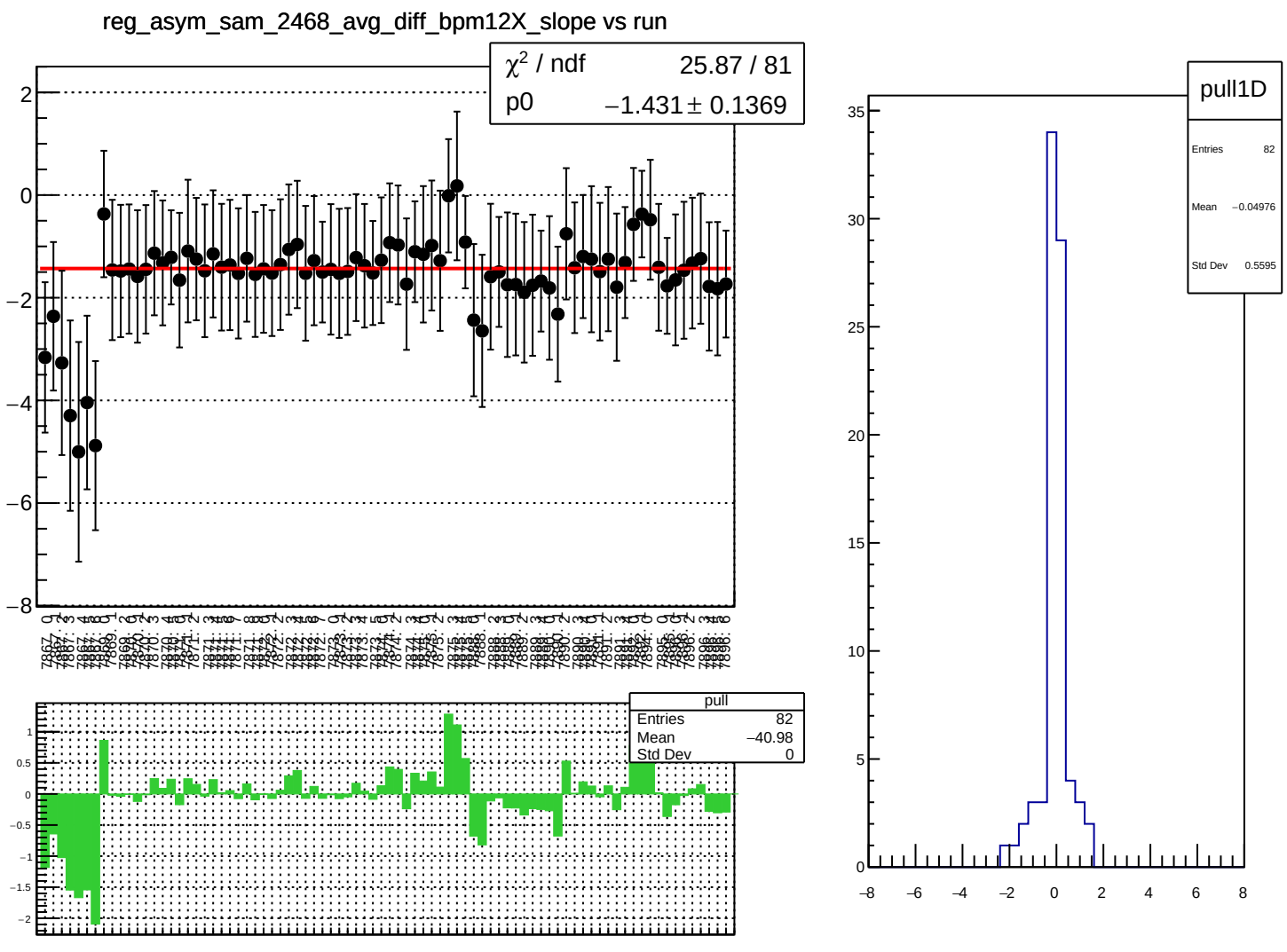

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 46.15 / 81
p0 −0.9653 ± 0.06695
pull
Entries 82
Mean −34.32
Std Dev 0
pull1D
Entries 82
Mean −0.06447
Std Dev 0.7474

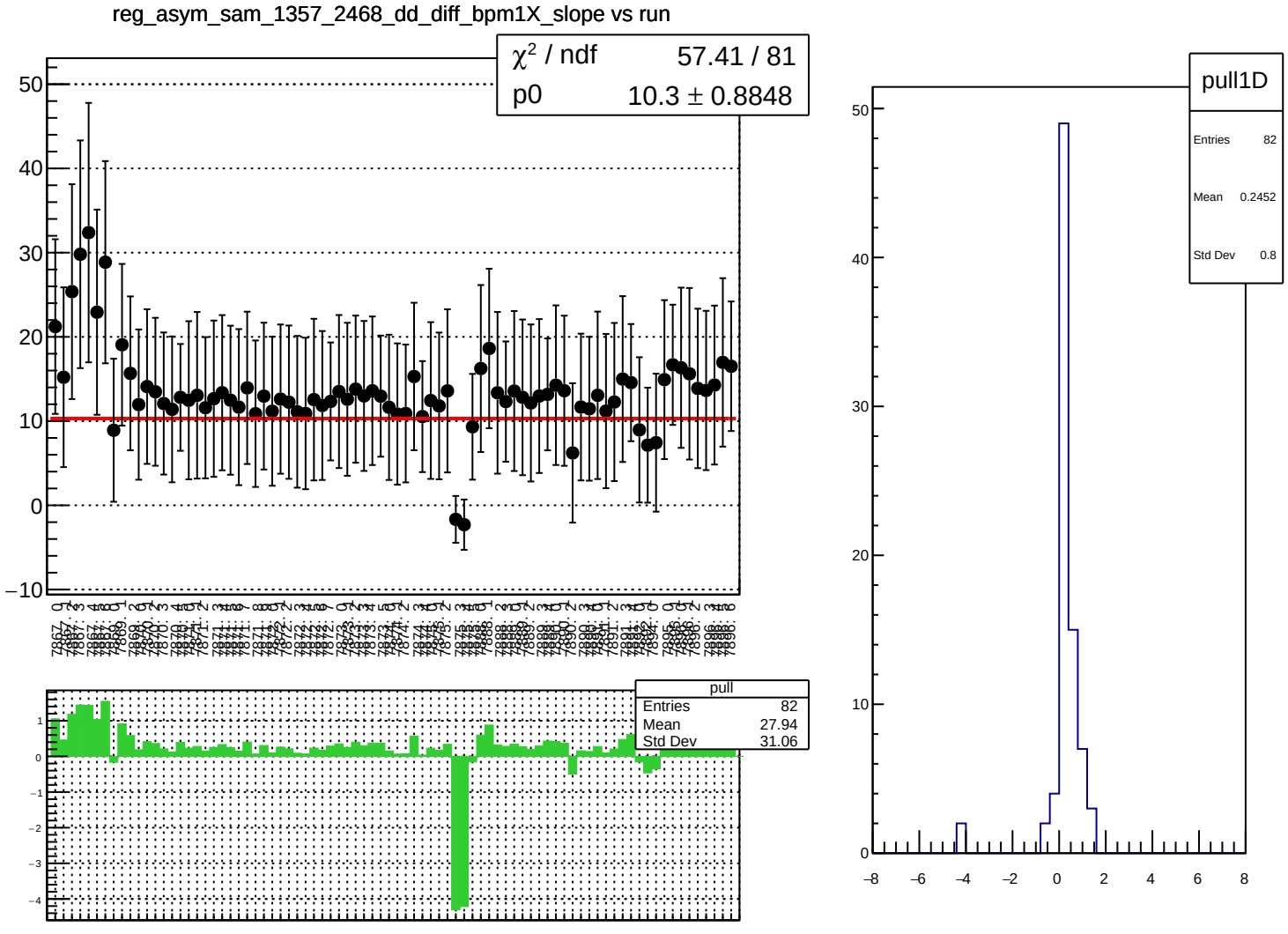

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 106.5 / 81
p0 −56.34 ± 3.449
pull
Entries 82
Mean 27.49
Std Dev 32.01
pull1D
Entries 82
Mean −0.3305
Std Dev 1.09

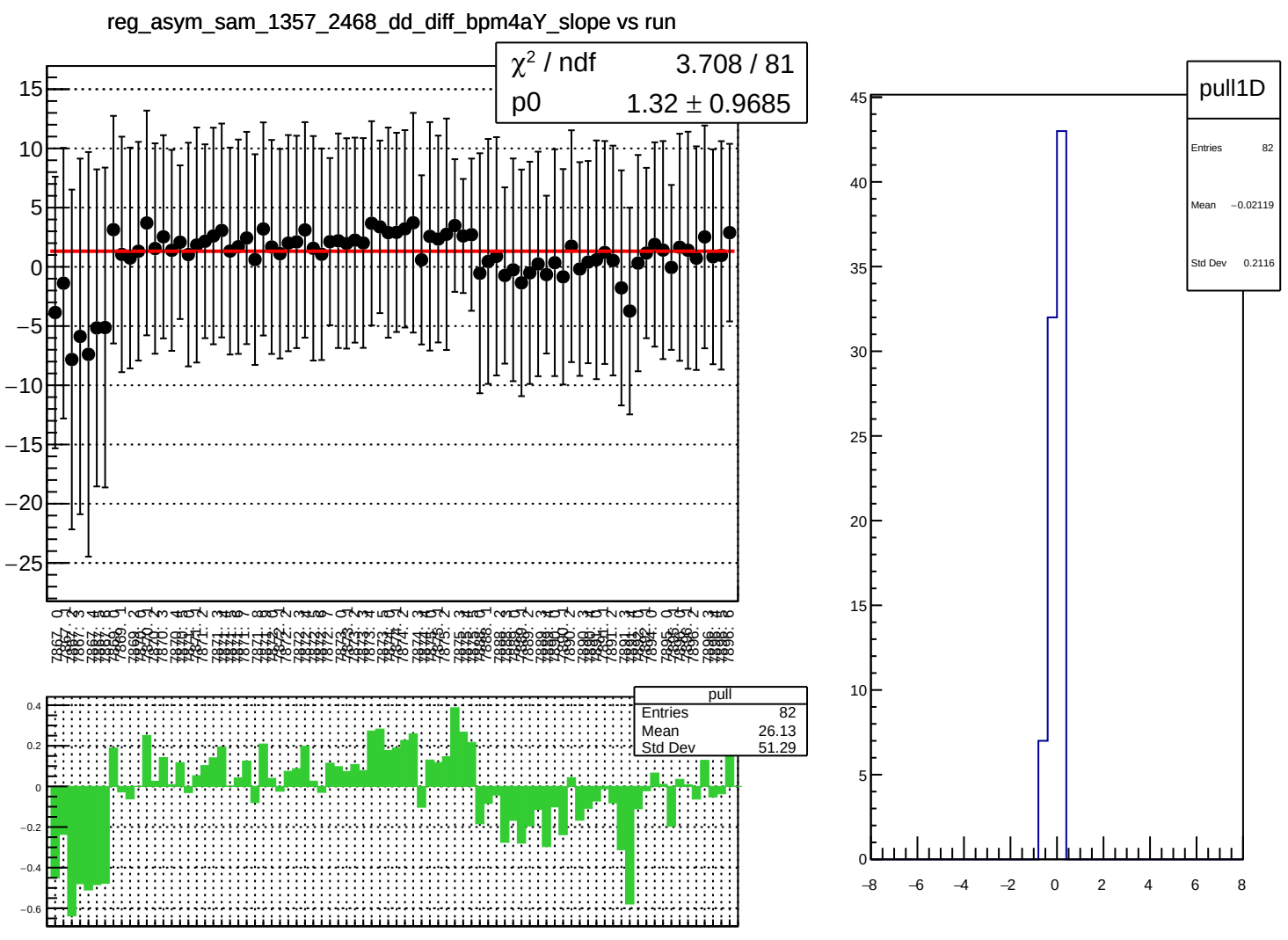

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.347 / 81
p0 16.24 ± 3.775
pull
Entries 82
Mean 26.23
Std Dev 44.64
pull1D
Entries 82
Mean 0.03446
Std Dev 0.2761

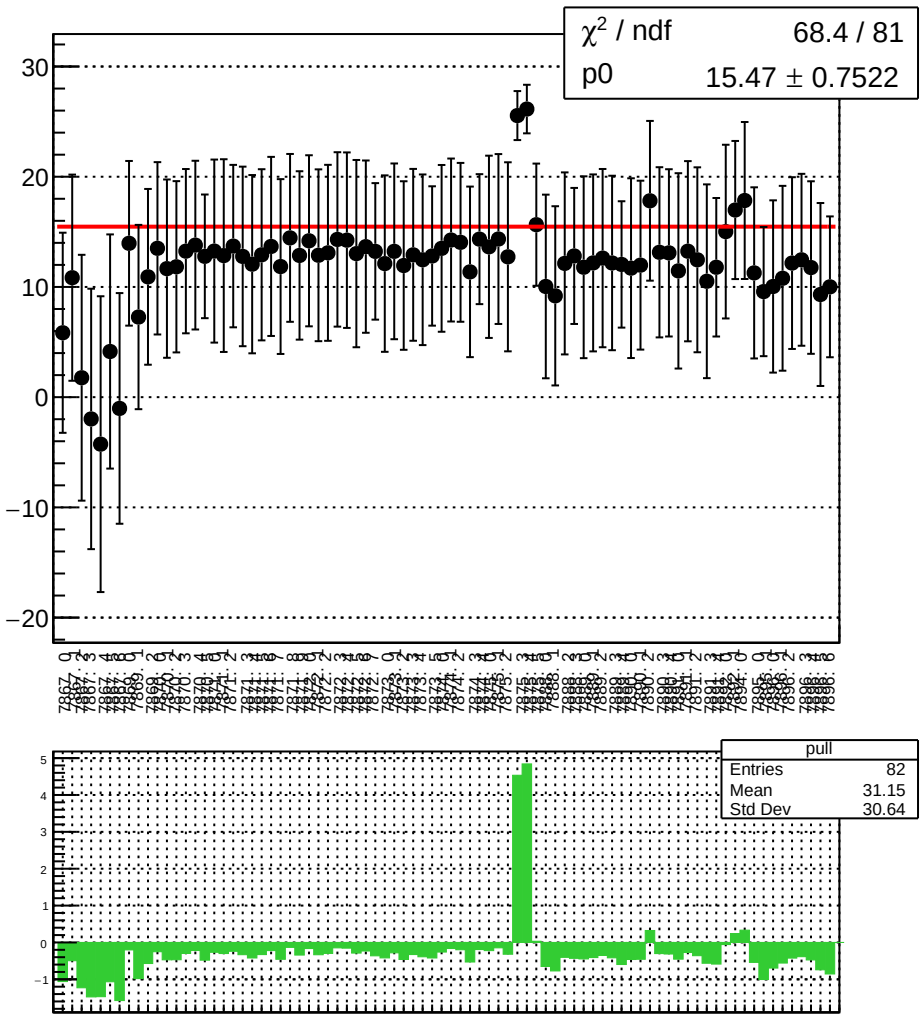

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 122.4 / 81
p0 −46.68 ± 2.932
100
50
0
−50
−100
pull
Entries 82
Mean 29.96
Std Dev 31.23
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 82
Mean 0.4079
Std Dev 1.152
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

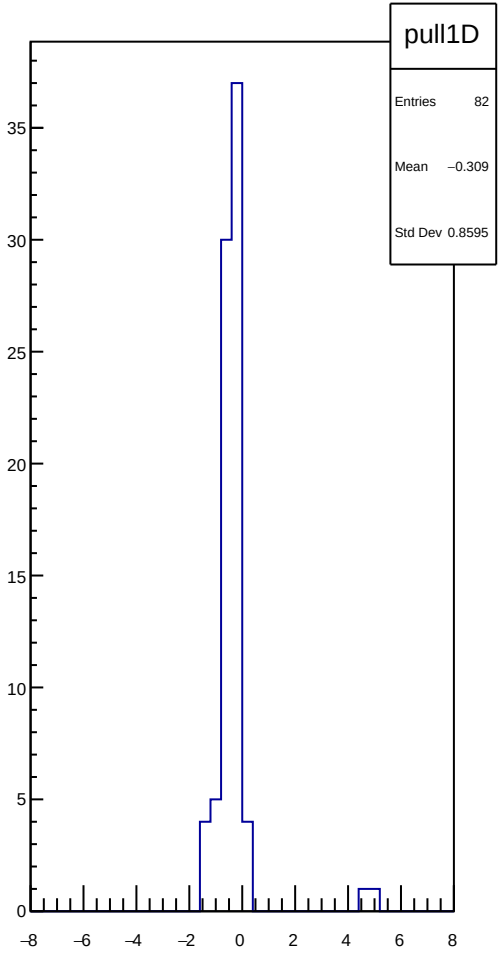

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.801 / 81
p0 22.27 ± 4.369
pull
Entries 82
Mean 33.47
Std Dev 53.32
pull1D
Entries 82
Mean −0.02554
Std Dev 0.2647

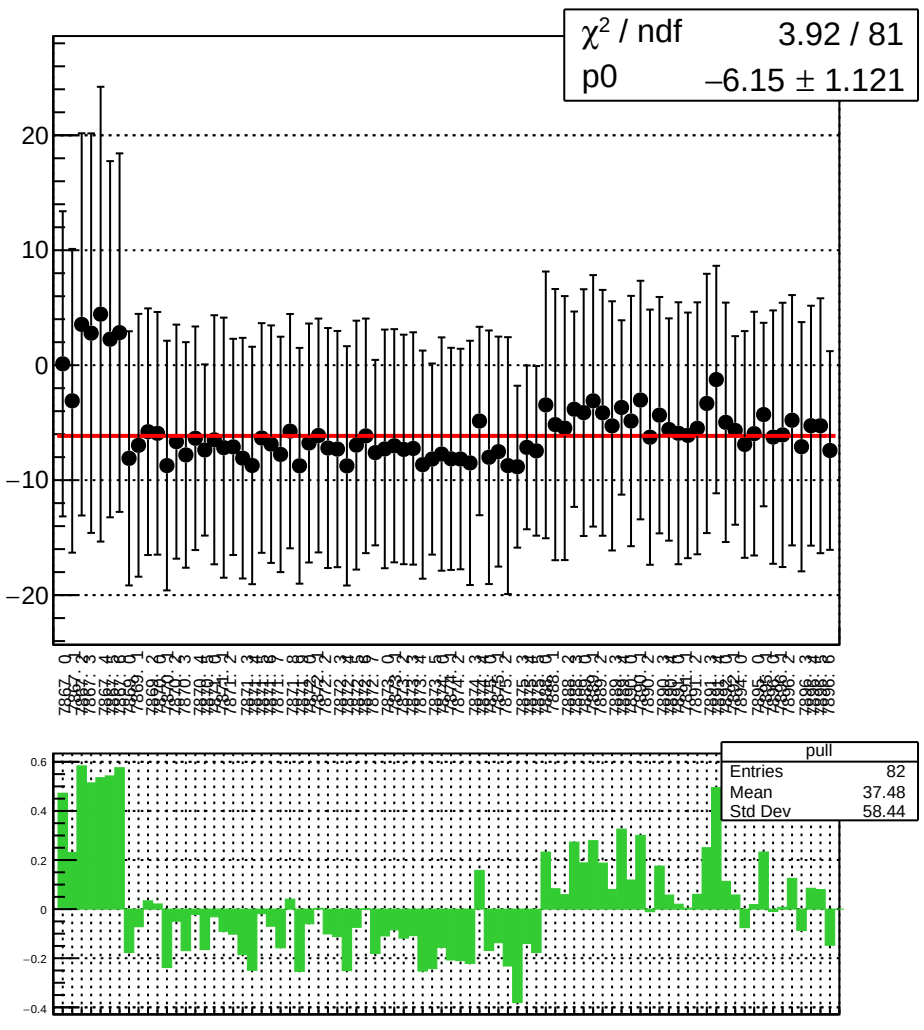

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 25.87 / 81
p0 −1.431 ± 0.1369
pull
Entries 82
Mean −40.98
Std Dev 0
pull1D
Entries 82
Mean −0.04976
Std Dev 0.5595

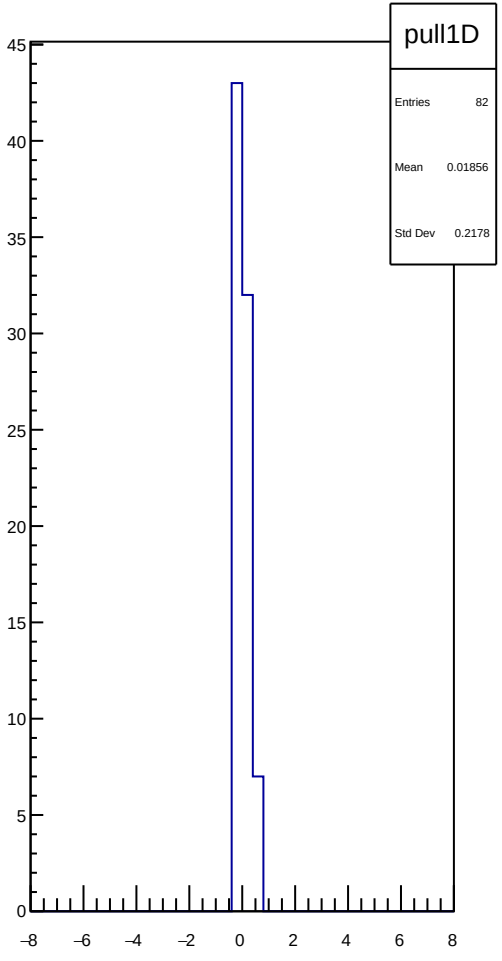

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 57.41 / 81
p0 10.3 ± 0.8848
pull
Entries 82
Mean 27.94
Std Dev 31.06
pull1D
Entries 82
Mean 0.2452
Std Dev 0.8

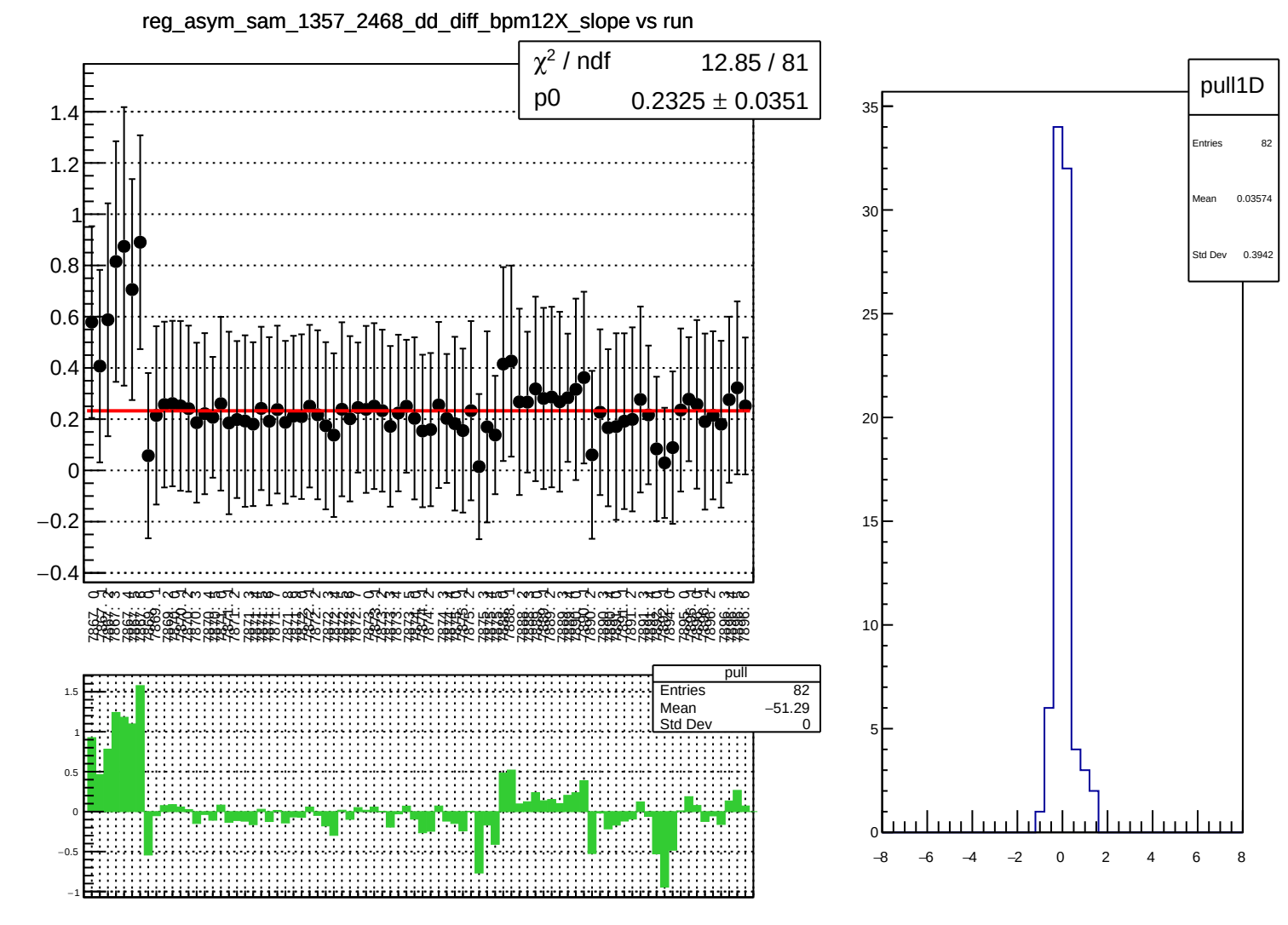

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.708 / 81
p0 1.32 ± 0.9685
pull
Entries 82
Mean 26.13
Std Dev 51.29
pull1D
Entries 82
Mean −0.02119
Std Dev 0.2116

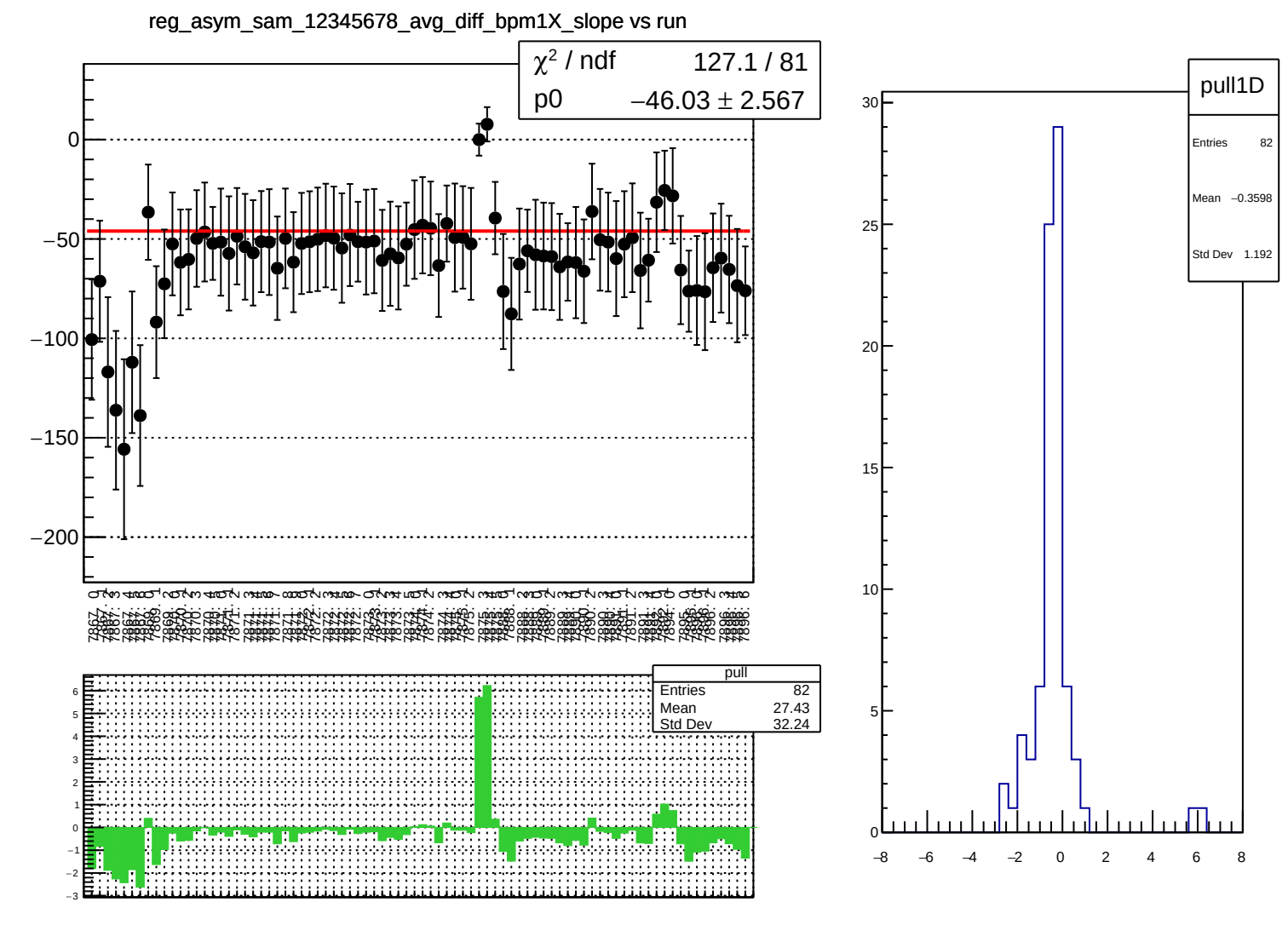

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.4 / 81
p0 15.47 ± 0.7522
pull
Entries 82
Mean 31.15
Std Dev 30.64

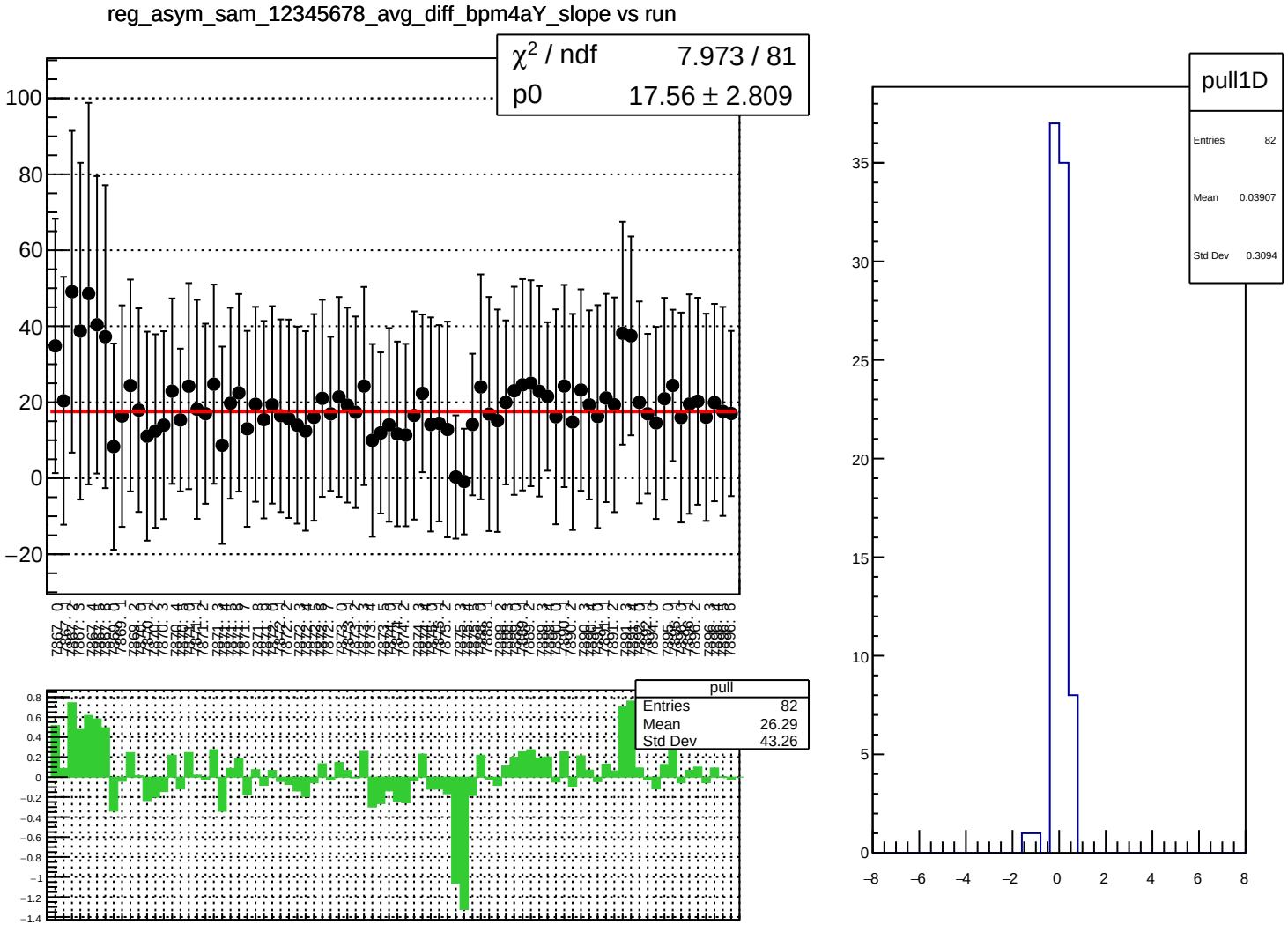

pull1D
Entries 82
Mean −0.309
Std Dev 0.8595

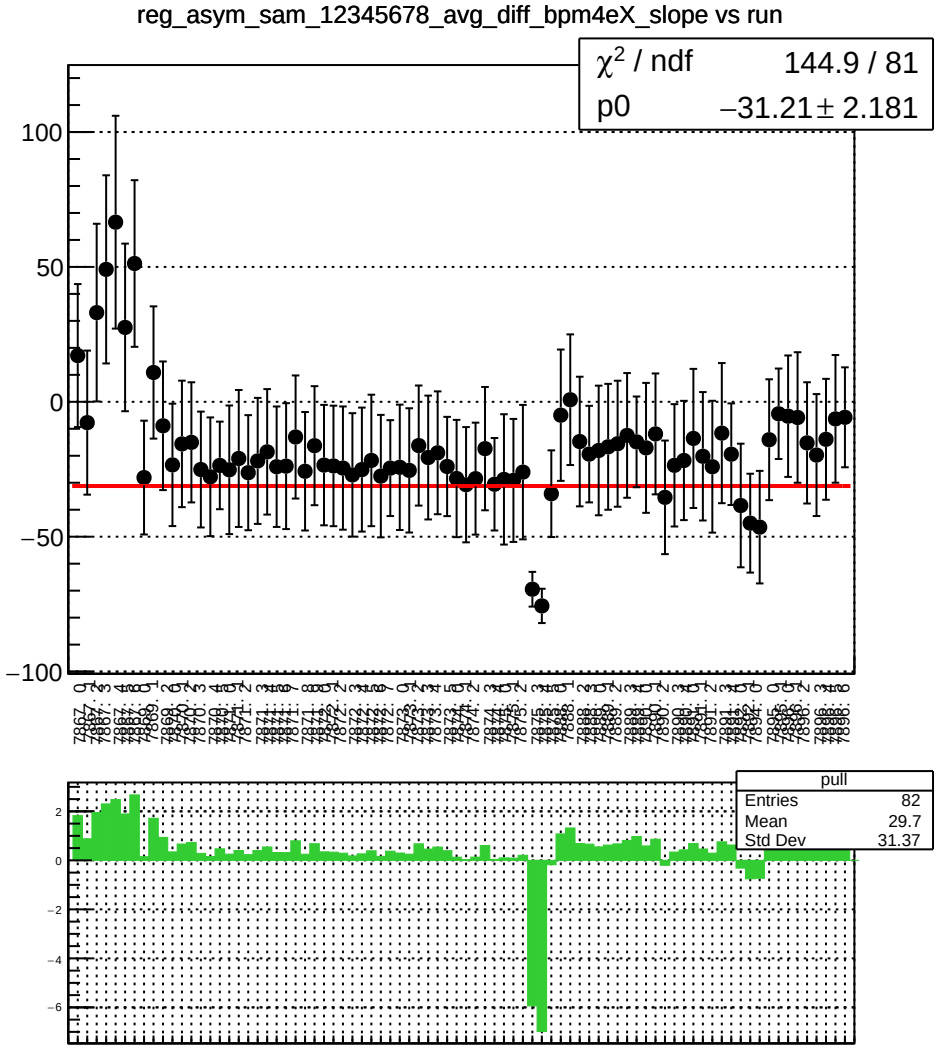

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.92 / 81
p0 −6.15 ± 1.121
pull
Entries 82
Mean 37.48
Std Dev 58.44

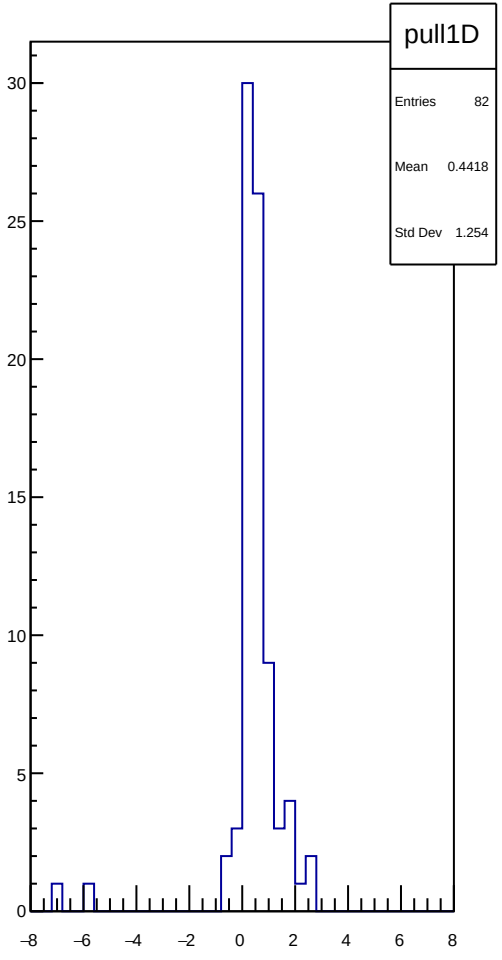

pull1D
Entries 82
Mean 0.01856
Std Dev 0.2178

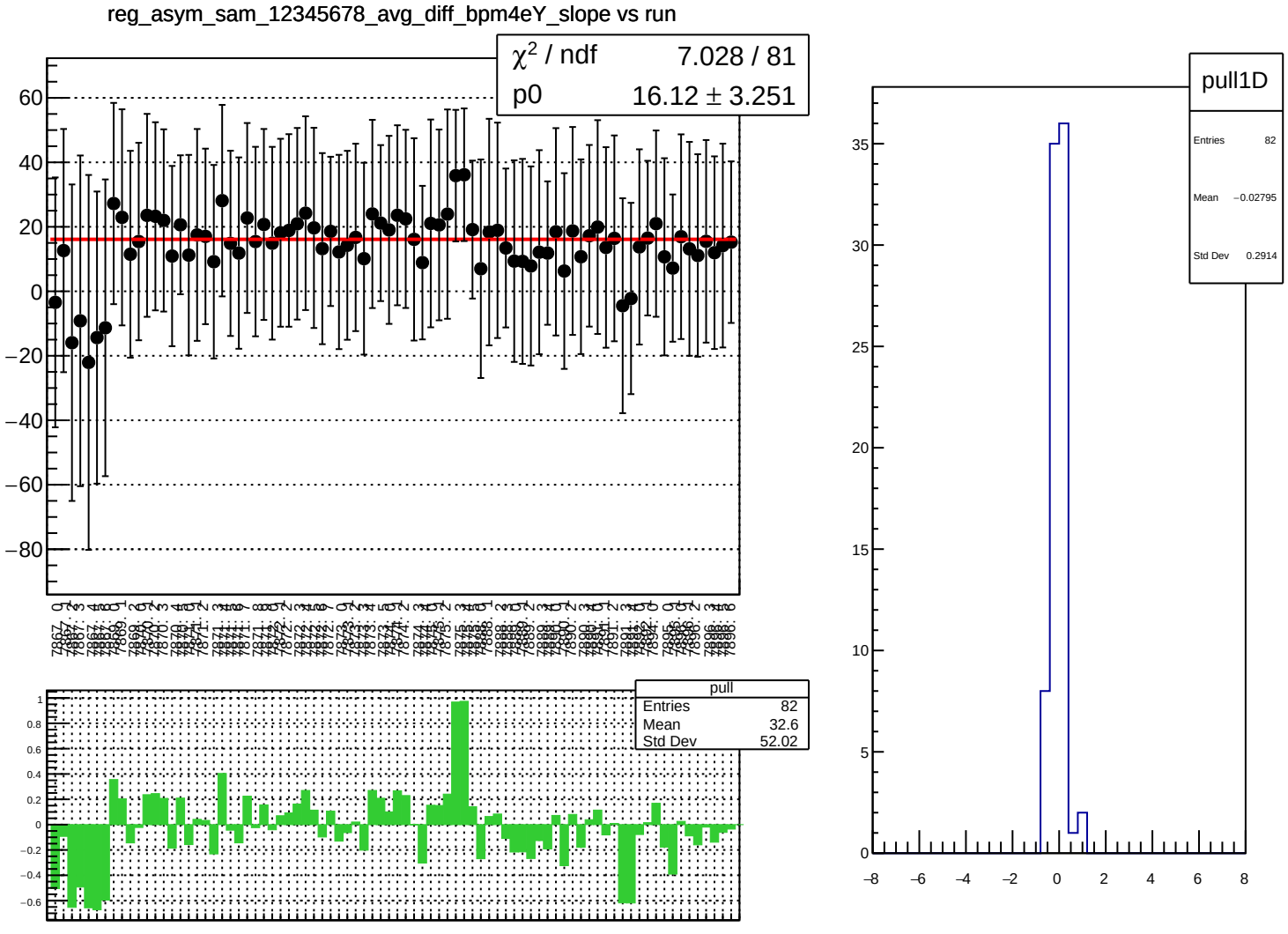

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 12.85 / 81
p0 0.2325 ± 0.0351
pull
Entries 82
Mean −51.29
Std Dev 0
pull1D
Entries 82
Mean 0.03574
Std Dev 0.3942

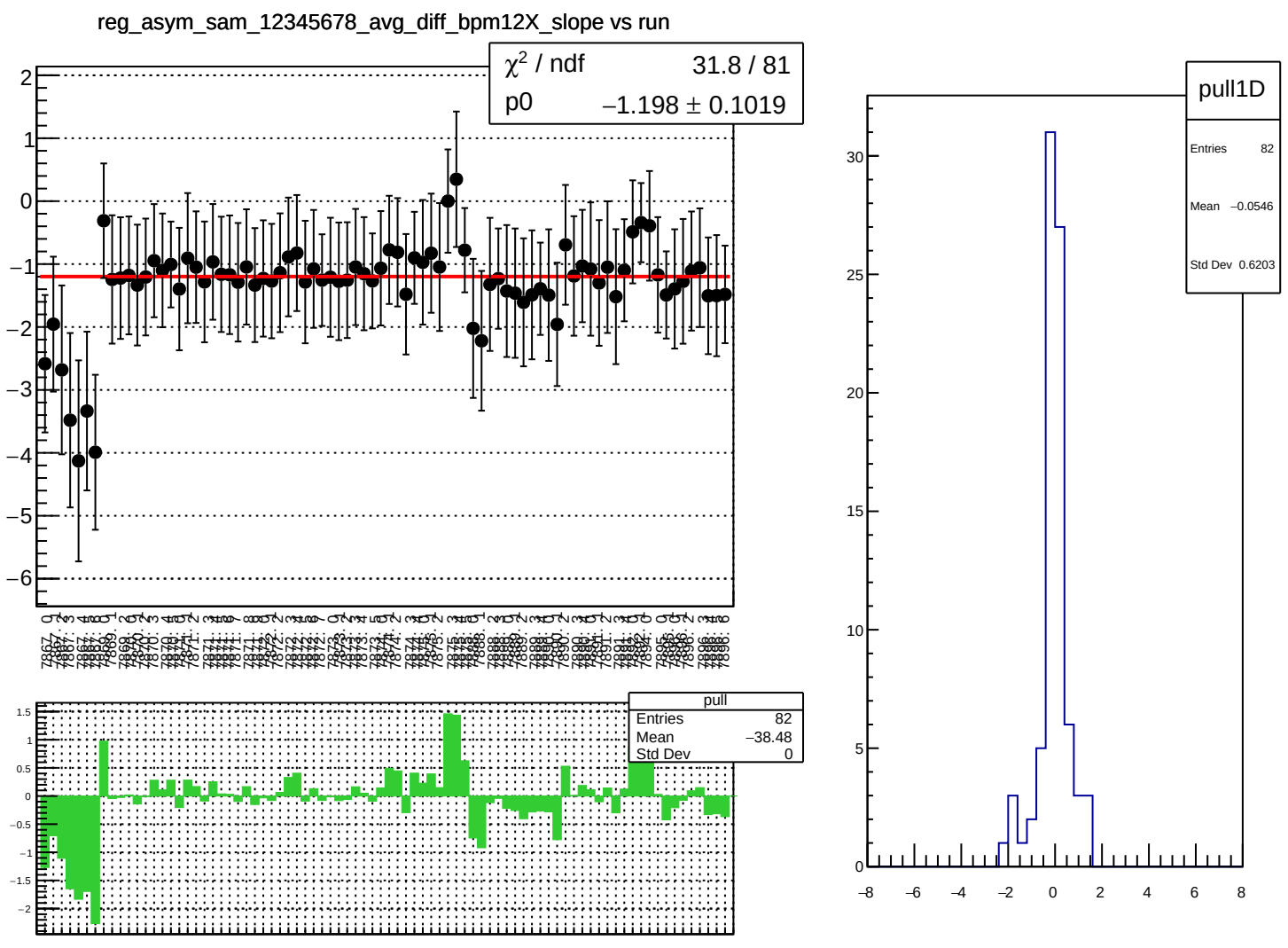

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 127.1 / 81
p0 −46.03 ± 2.567
0
−50
−100
−150
−200
pull
Entries 82
Mean 27.43
Std Dev 32.24
pull1D
Entries 82
Mean −0.3598
Std Dev 1.192

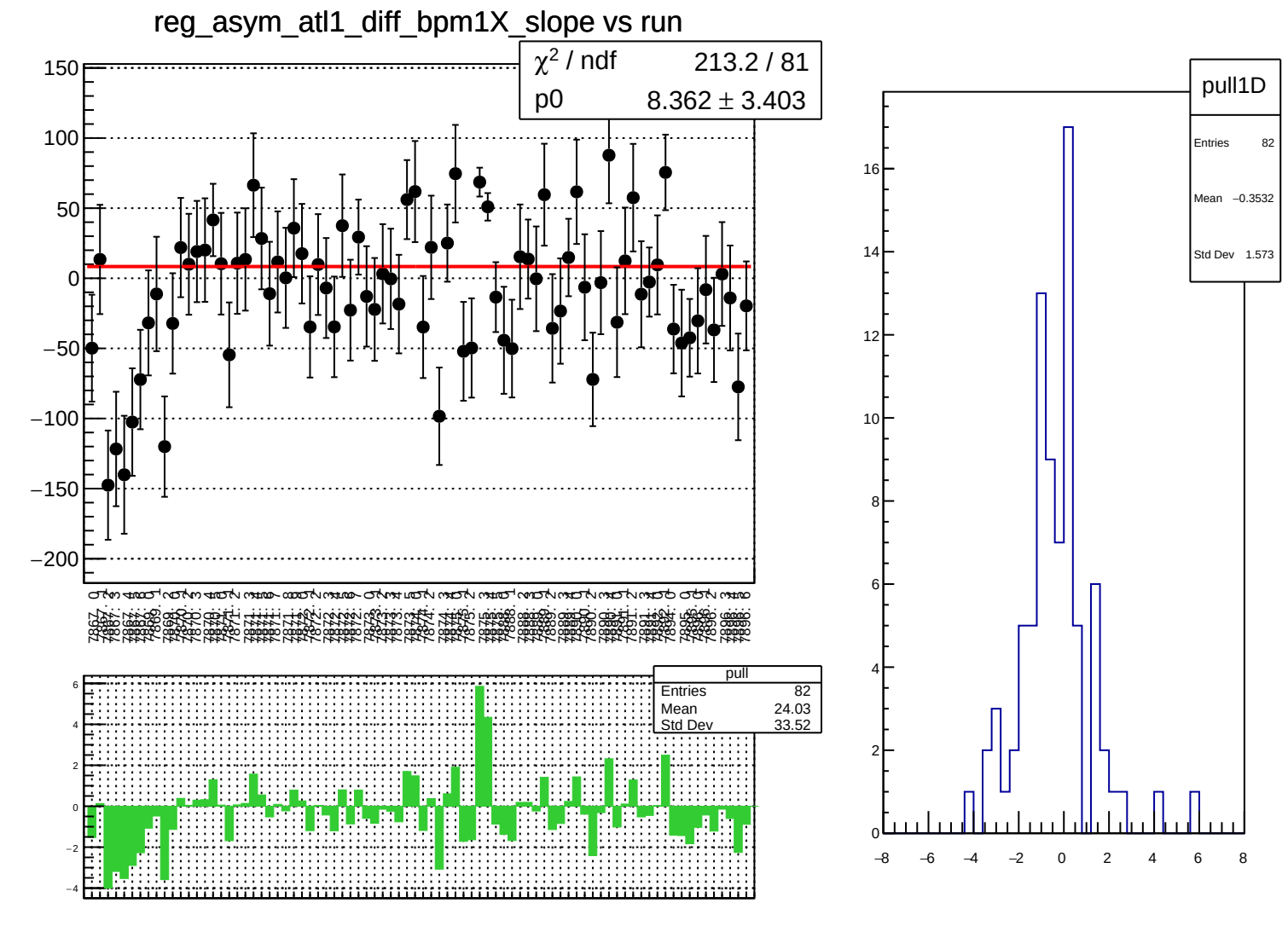

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.973 / 81
p0 17.56 ± 2.809
pull
Entries 82
Mean 26.29
Std Dev 43.26
pull1D
Entries 82
Mean 0.03907
Std Dev 0.3094

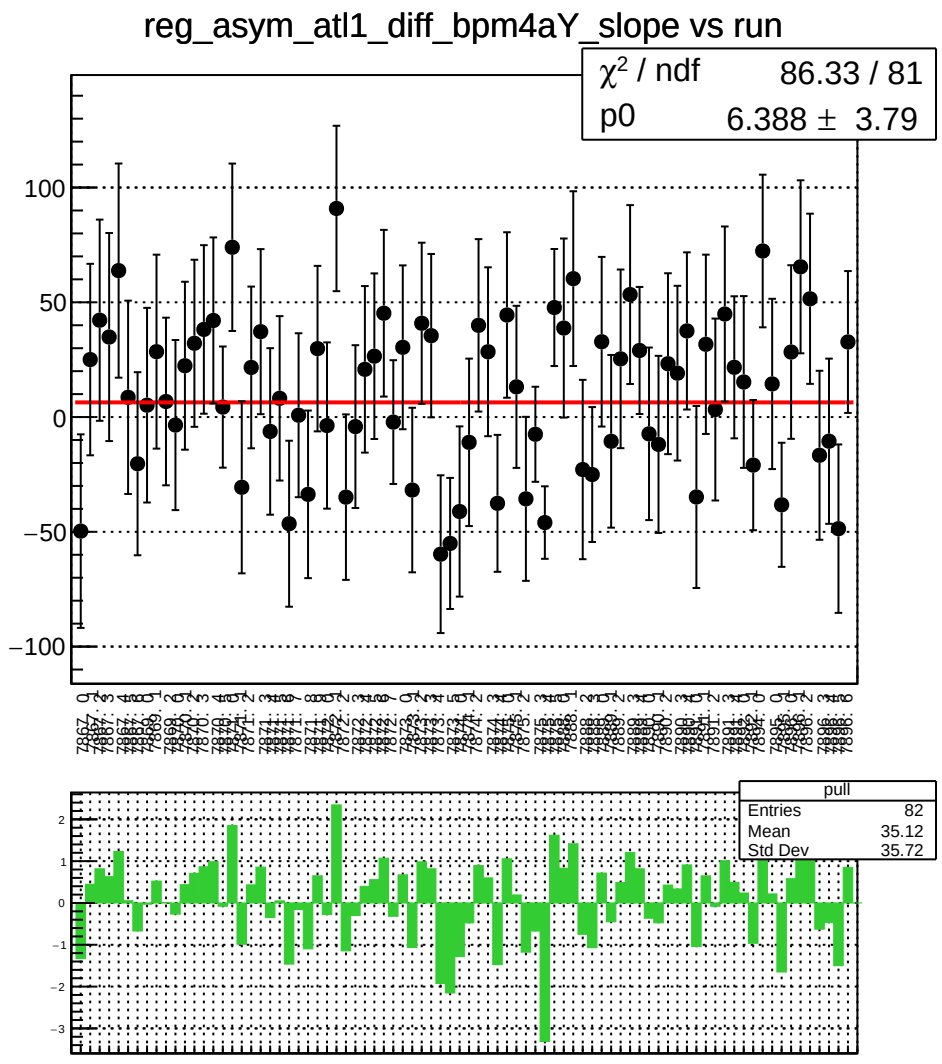

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 144.9 / 81
p0 −31.21 ± 2.181
pull
Entries 82
Mean 29.7
Std Dev 31.37

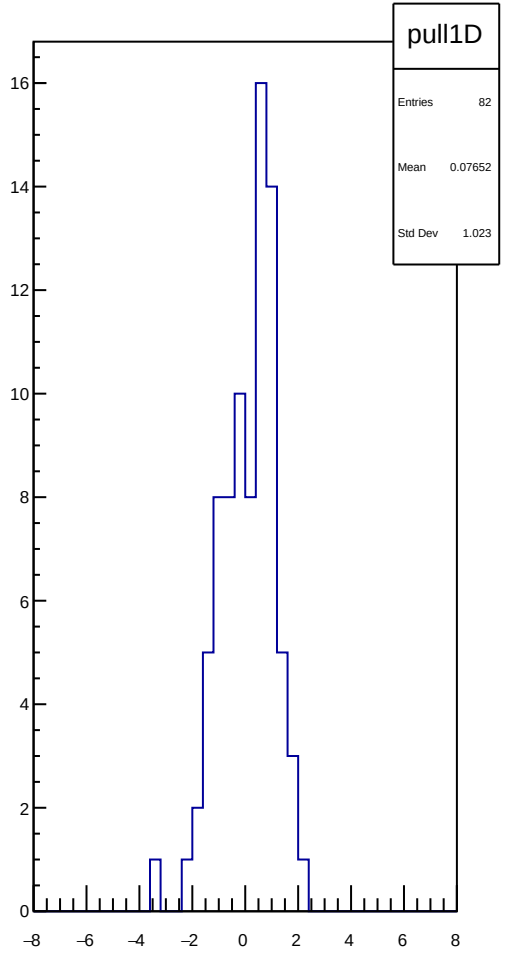

pull1D
Entries 82
Mean 0.4418
Std Dev 1.254

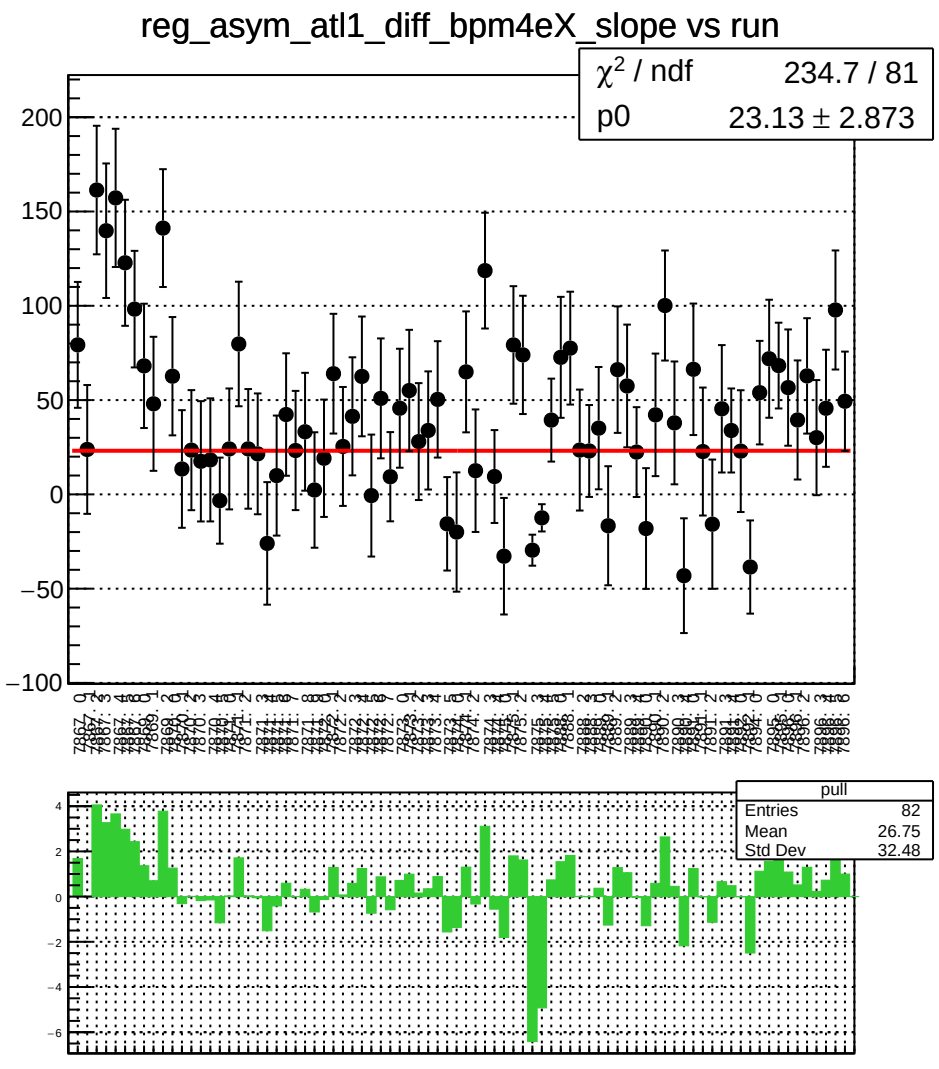

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.028 / 81
p0 16.12 ± 3.251
pull
Entries 82
Mean 32.6
Std Dev 52.02
pull1D
Entries 82
Mean −0.02795
Std Dev 0.2914

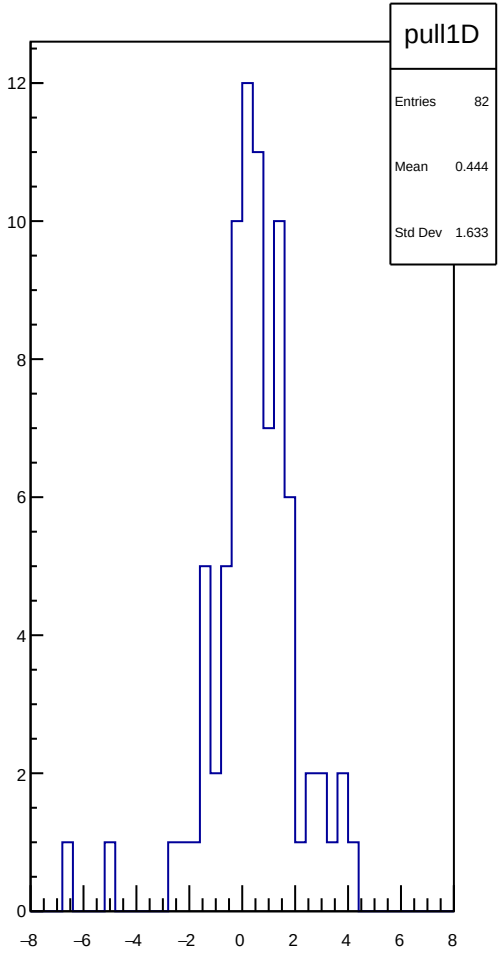

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 31.8 / 81
p0 −1.198 ± 0.1019
pull
Entries 82
Mean −38.48
Std Dev 0
pull1D
Entries 82
Mean −0.0546
Std Dev 0.6203

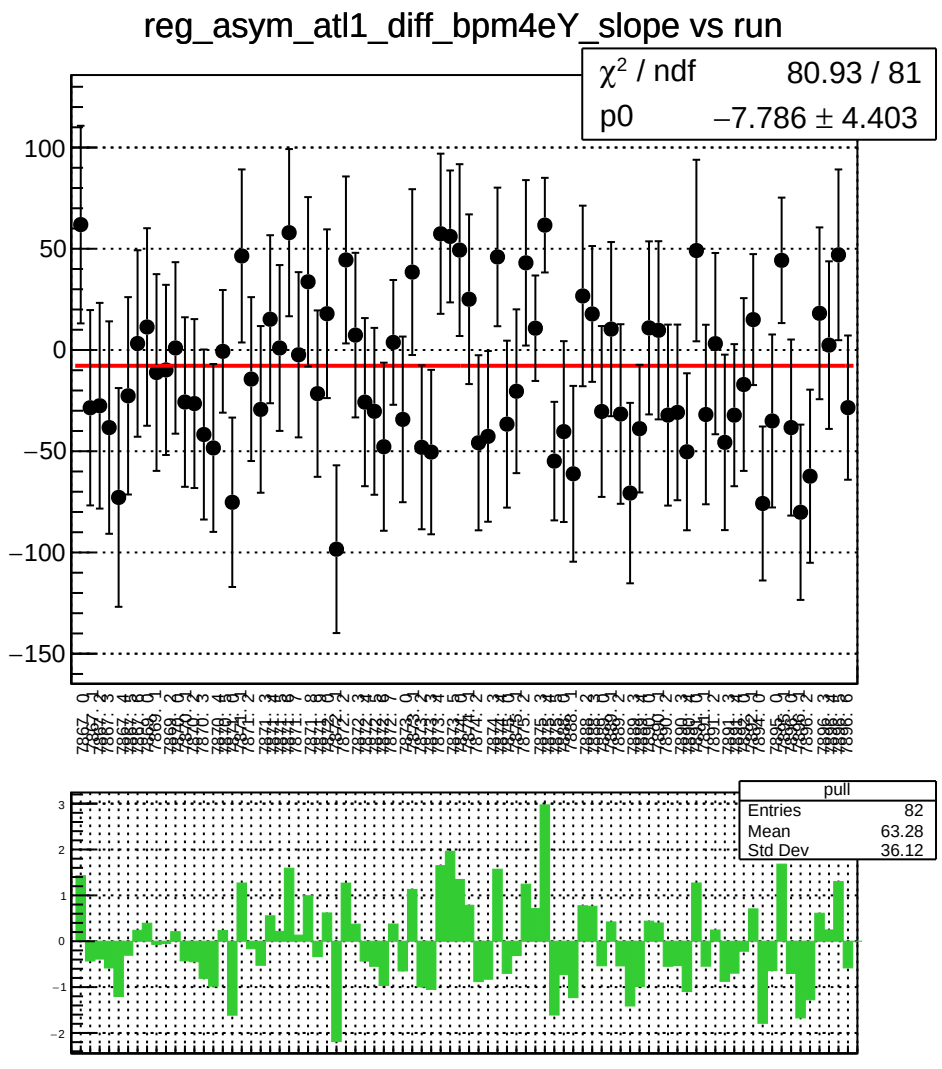

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 213.2 / 81
p0 8.362 ± 3.403
pull
Entries 82
Mean 24.03
Std Dev 33.52
pull1D
Entries 82
Mean −0.3532
Std Dev 1.573

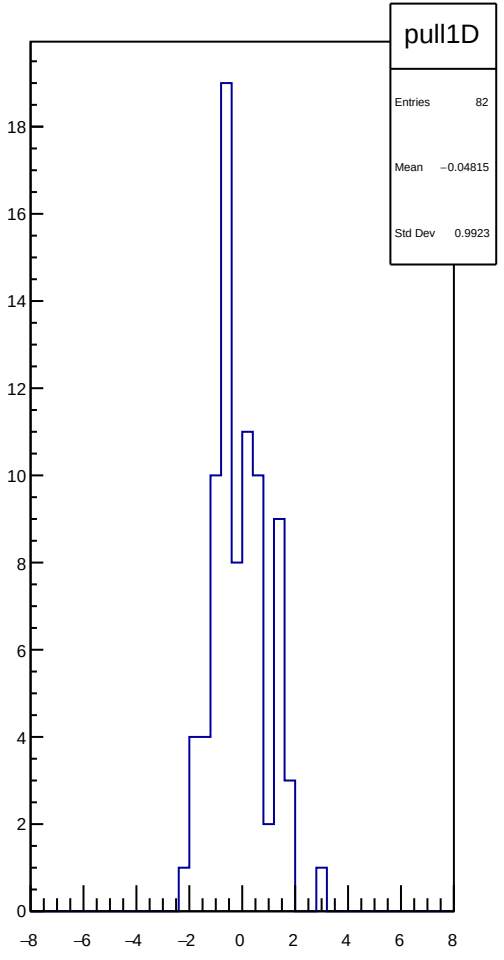

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 86.33 / 81
p0 6.388 ± 3.79
100
50
0
−50
−100
pull
Entries 82
Mean 35.12
Std Dev 35.72
2
1
0
−1
−2
−3

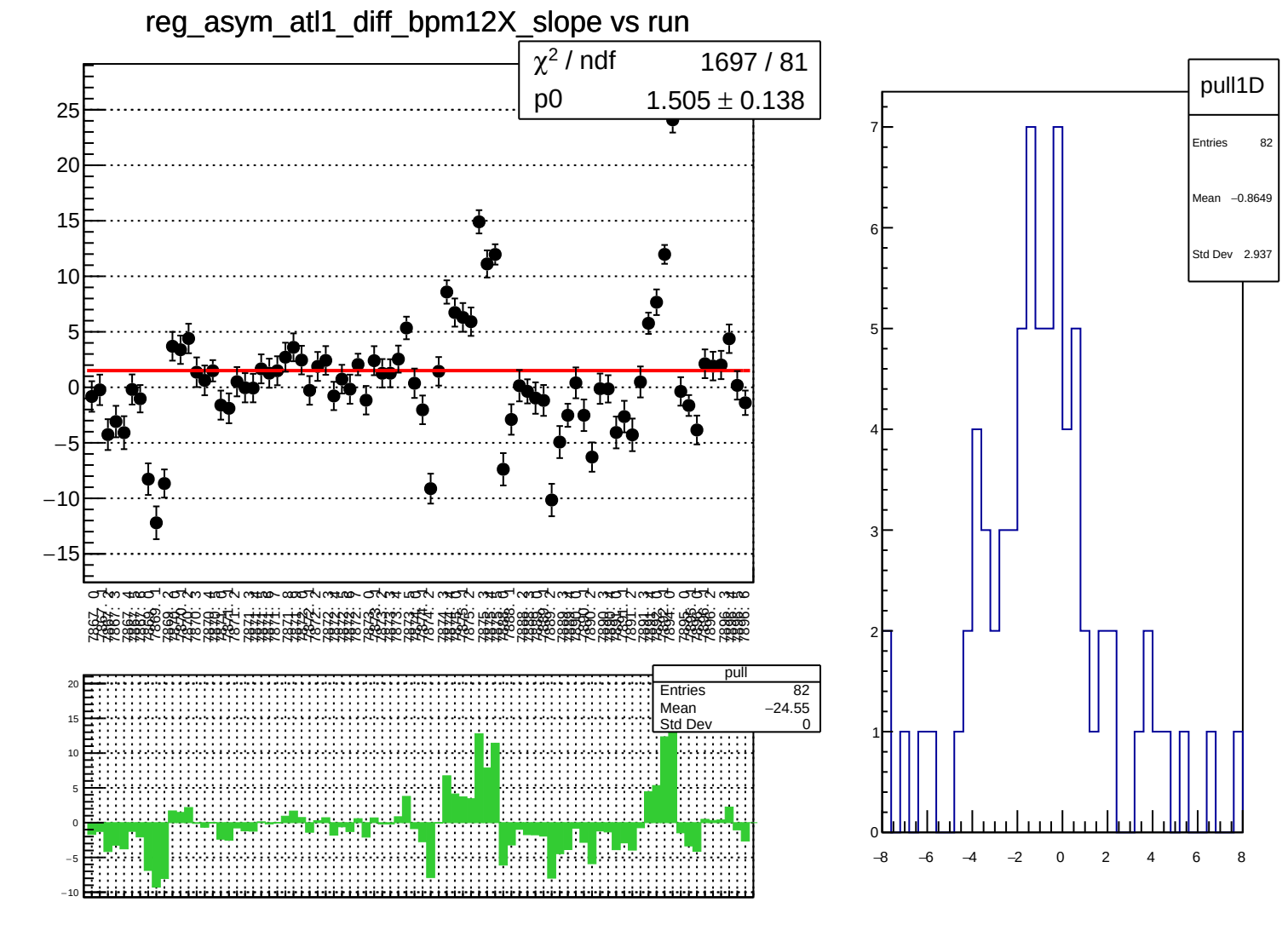

pull1D
Entries 82
Mean 0.07652
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

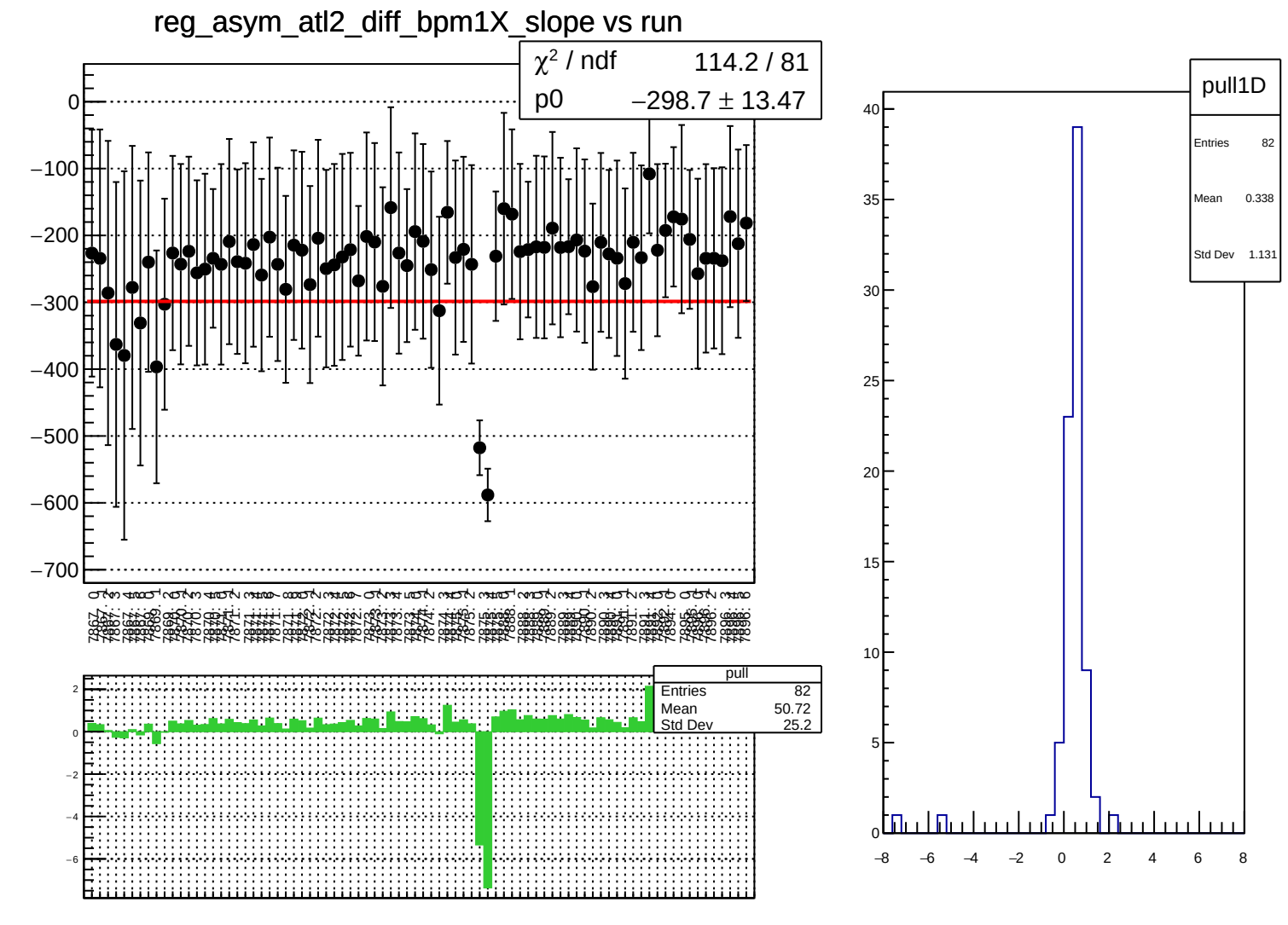

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 234.7 / 81
p0 23.13 ± 2.873
pull
Entries 82
Mean 26.75
Std Dev 32.48

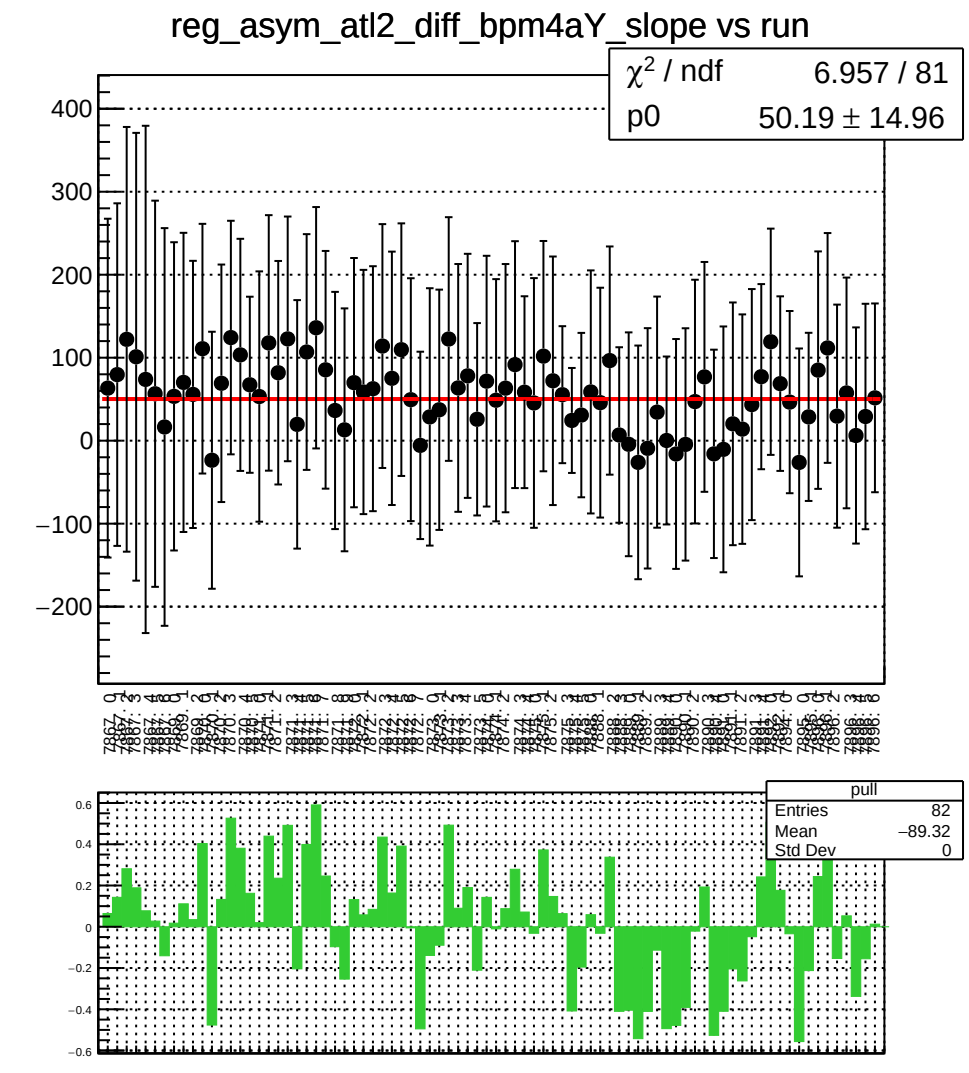

pull1D
Entries 82
Mean 0.444
Std Dev 1.633

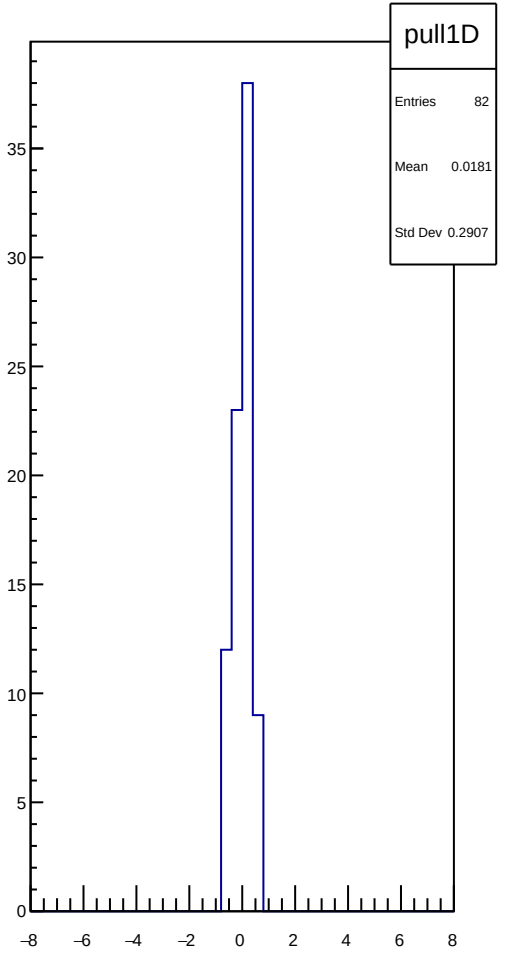

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 80.93 / 81
p0 −7.786 ± 4.403
pull
Entries 82
Mean 63.28
Std Dev 36.12

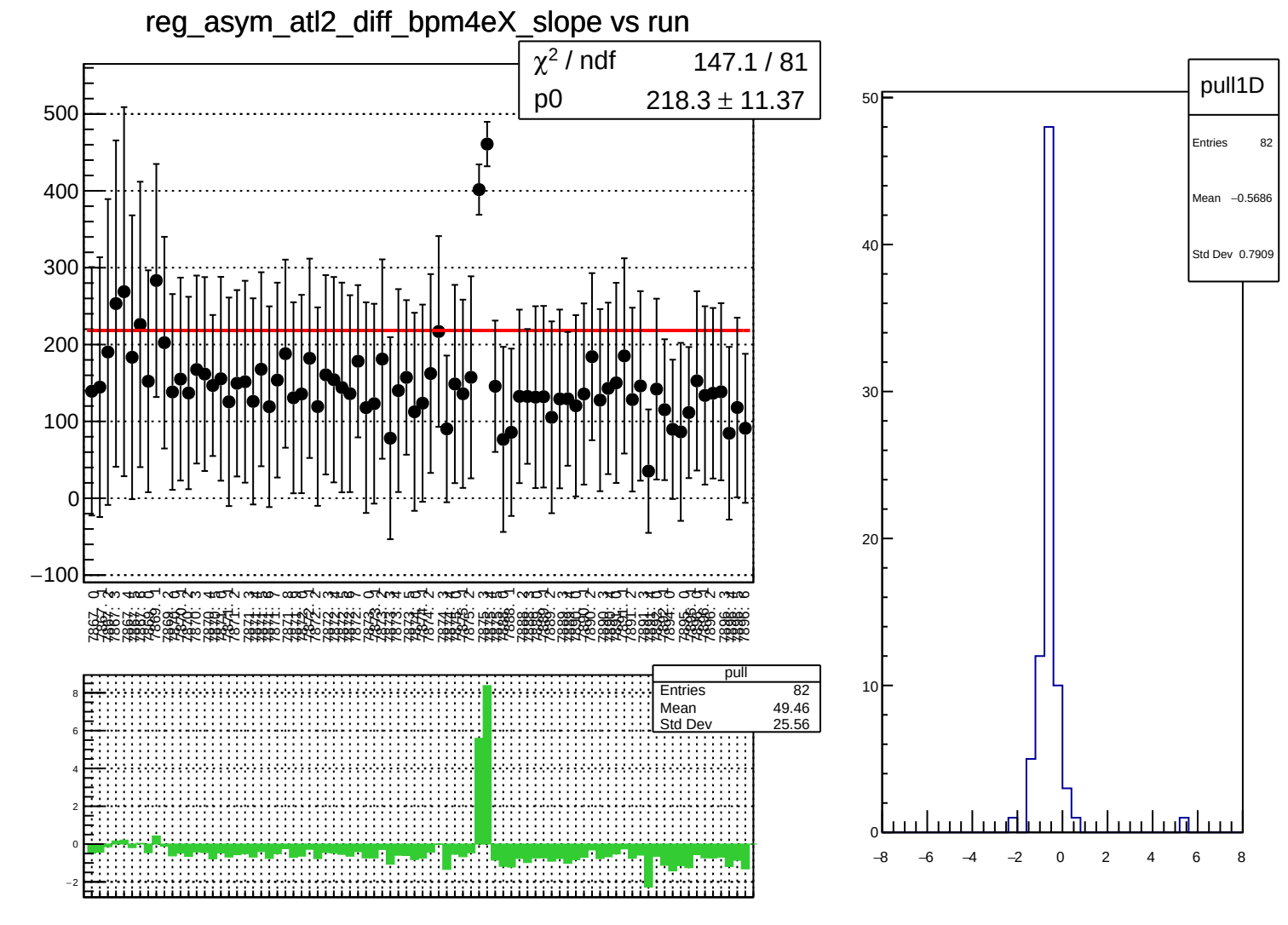

pull1D
Entries 82
Mean −0.04815
Std Dev 0.9923

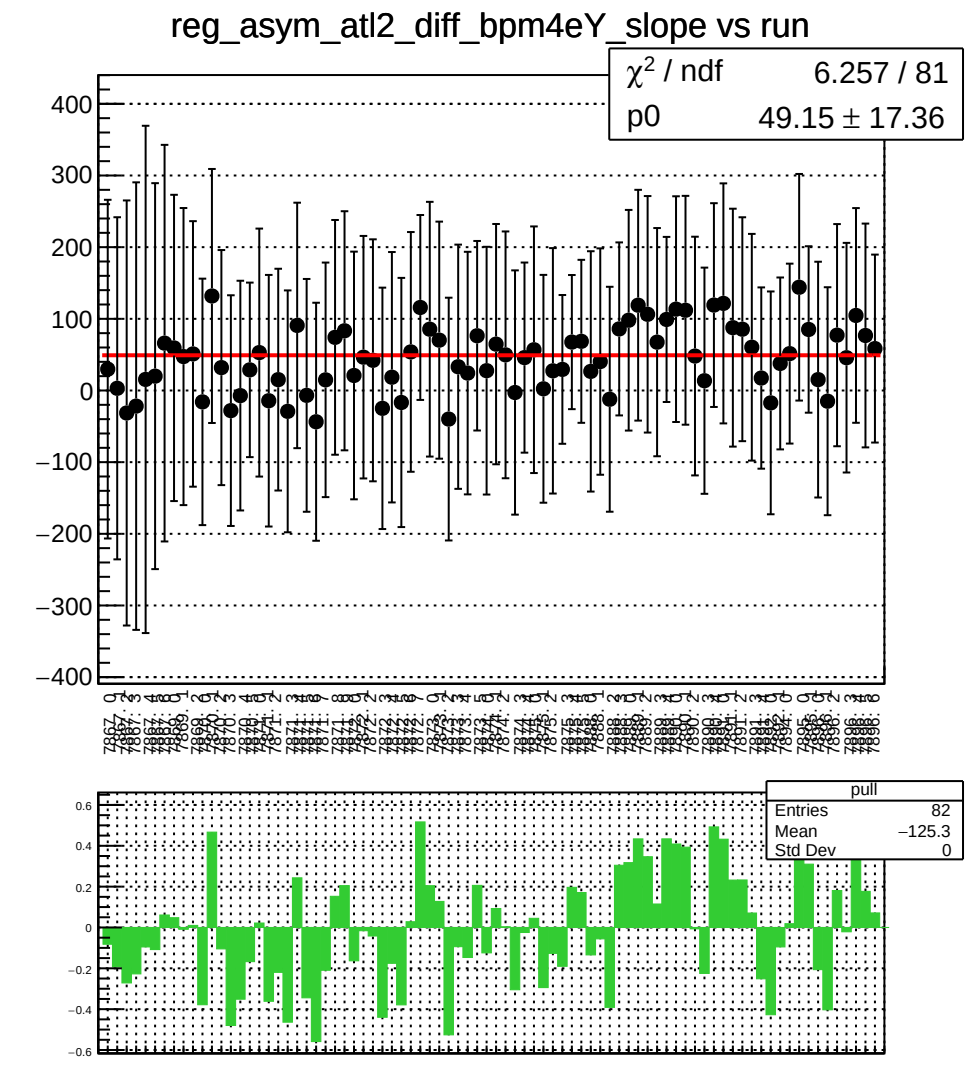

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1697 / 81
p0 1.505 ± 0.138
pull
Entries 82
Mean −24.55
Std Dev 0
pull1D
Entries 82
Mean −0.8649
Std Dev 2.937

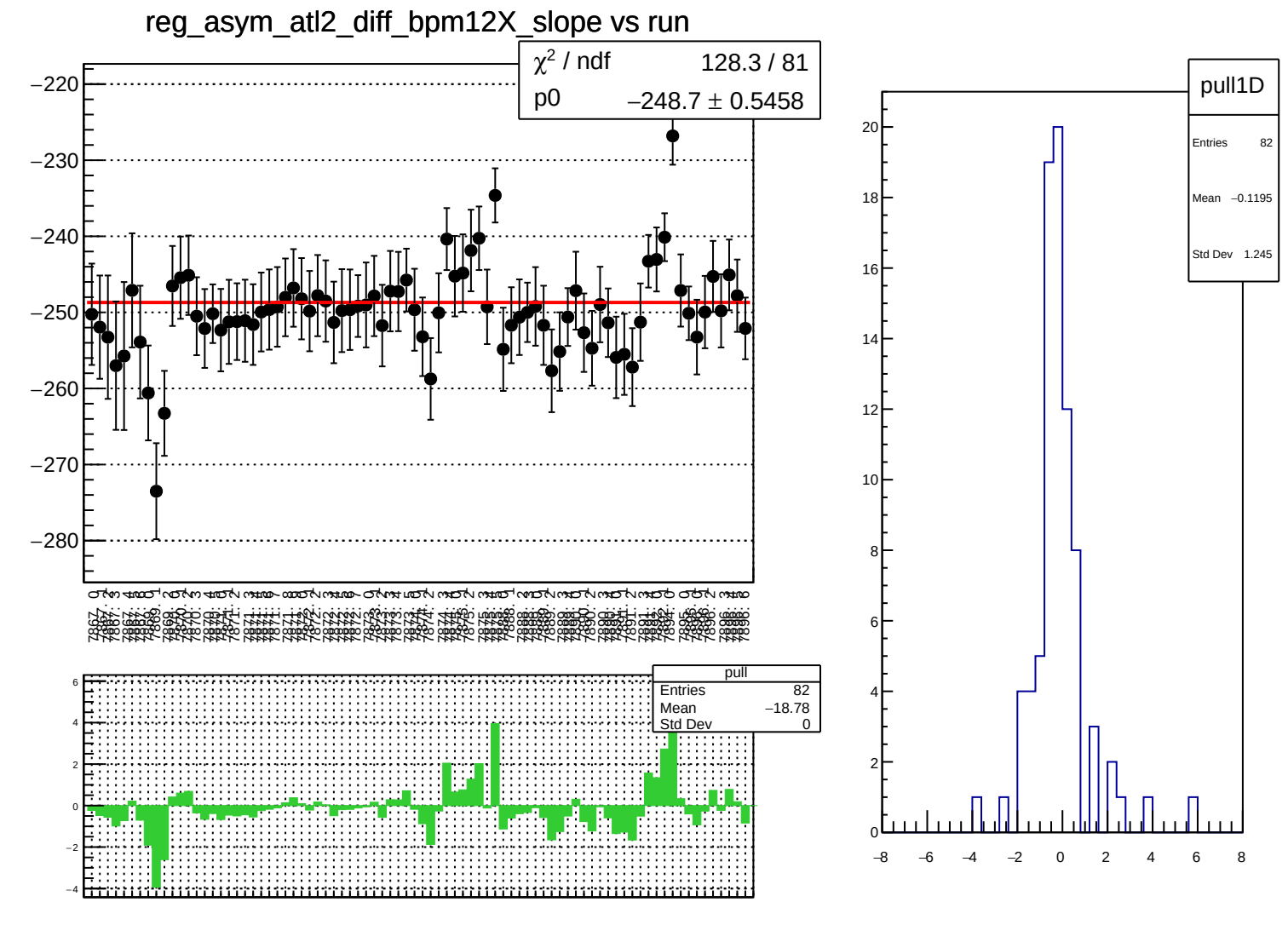

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 114.2 / 81
p0 −298.7 ± 13.47
pull
Entries 82
Mean 50.72
Std Dev 25.2
pull1D
Entries 82
Mean 0.338
Std Dev 1.131

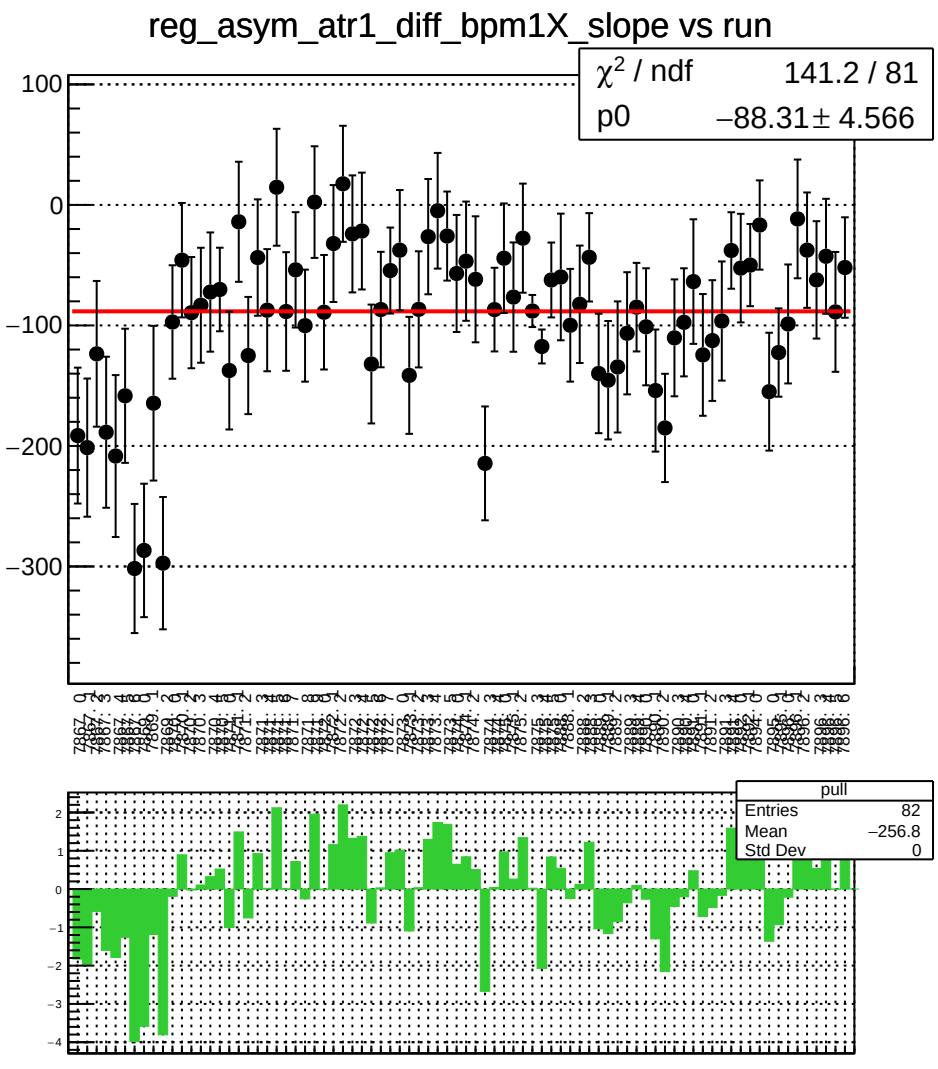

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.957 / 81
p0 50.19 ± 14.96
pull
Entries 82
Mean −89.32
Std Dev 0

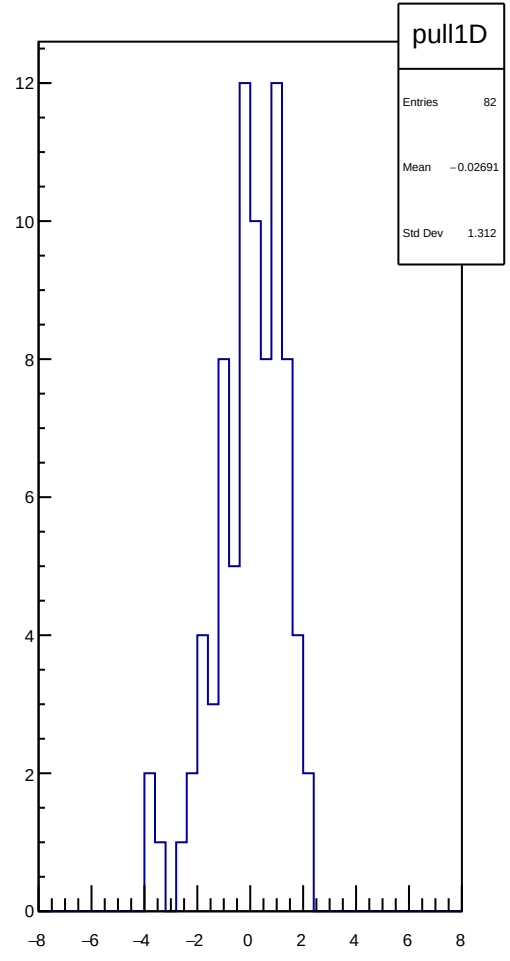

pull1D
Entries 82
Mean 0.0181
Std Dev 0.2907

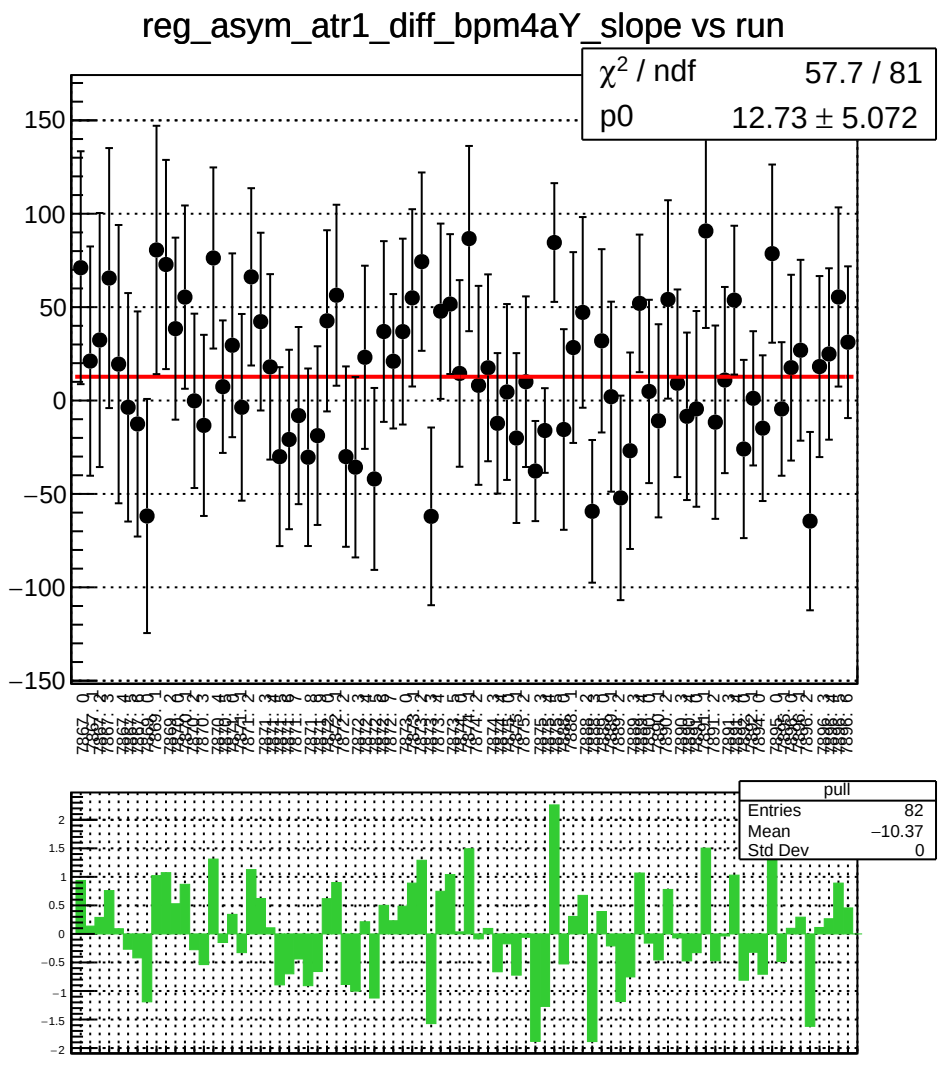

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 147.1 / 81
p0 218.3 ± 11.37
pull
Entries 82
Mean 49.46
Std Dev 25.56
pull1D
Entries 82
Mean −0.5686
Std Dev 0.7909

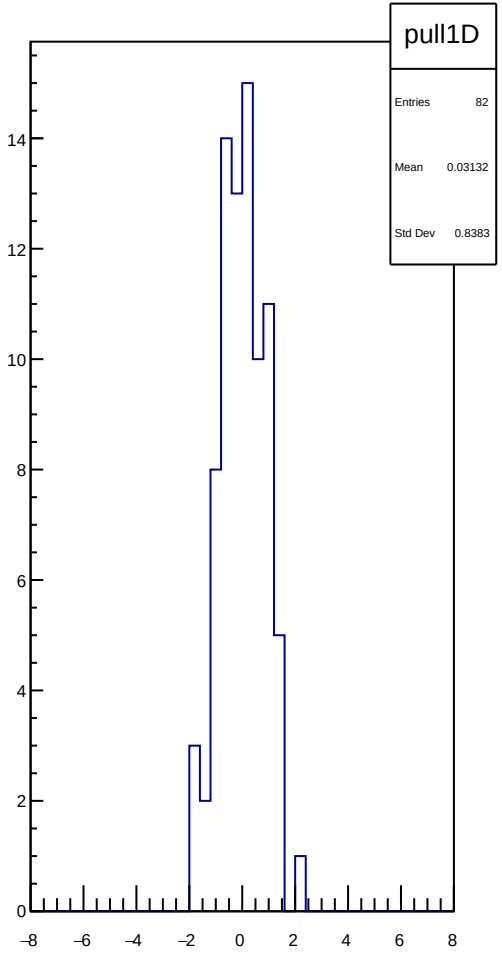

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.257 / 81
p0 49.15 ± 17.36
pull
Entries 82
Mean −125.3
Std Dev 0
pull1D
Entries 82
Mean −0.01398
Std Dev 0.2759

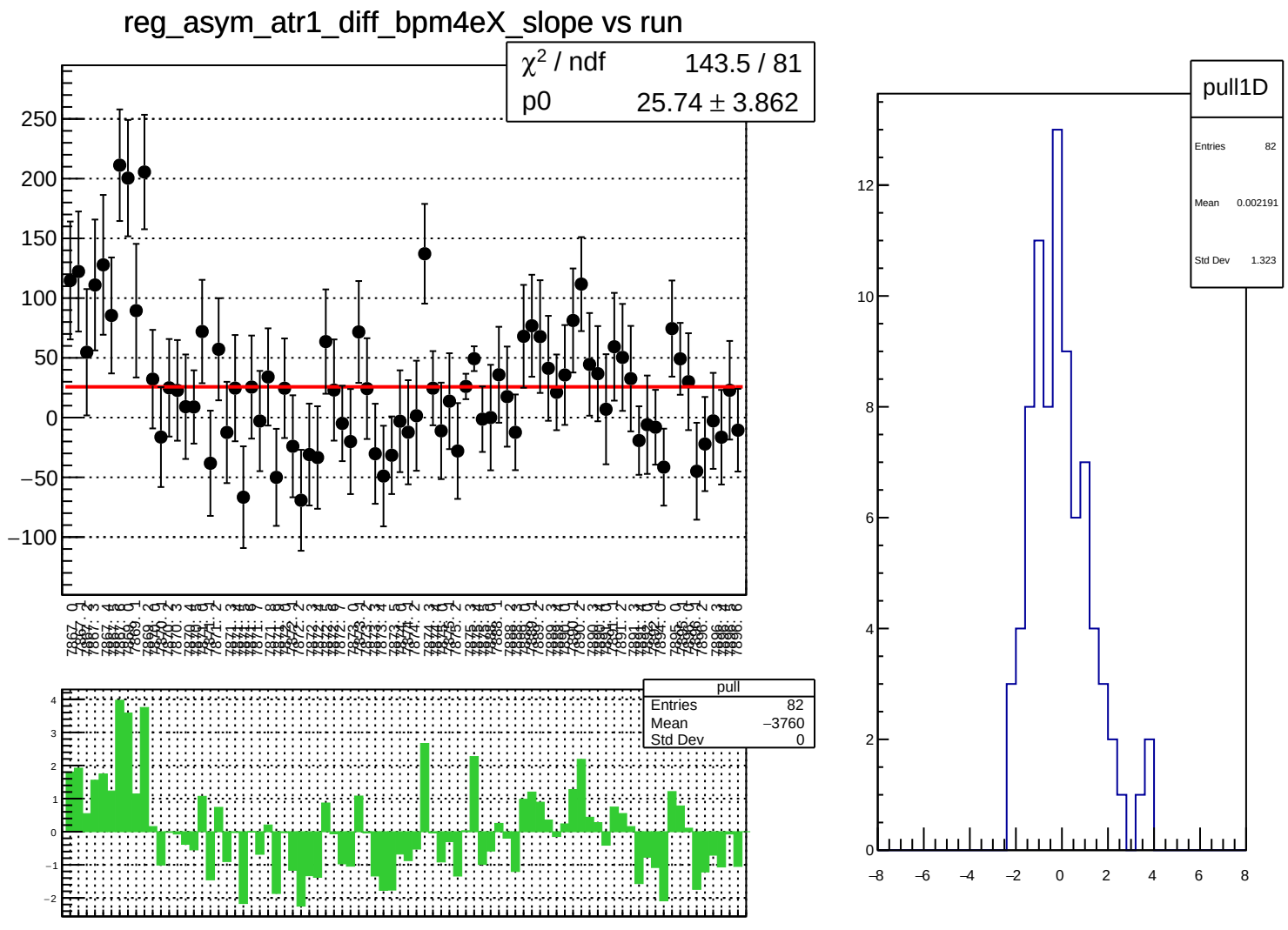

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 128.3 / 81
p0 −248.7 ± 0.5458
pull
Entries 82
Mean −18.78
Std Dev 0
pull1D
Entries 82
Mean −0.1195
Std Dev 1.245

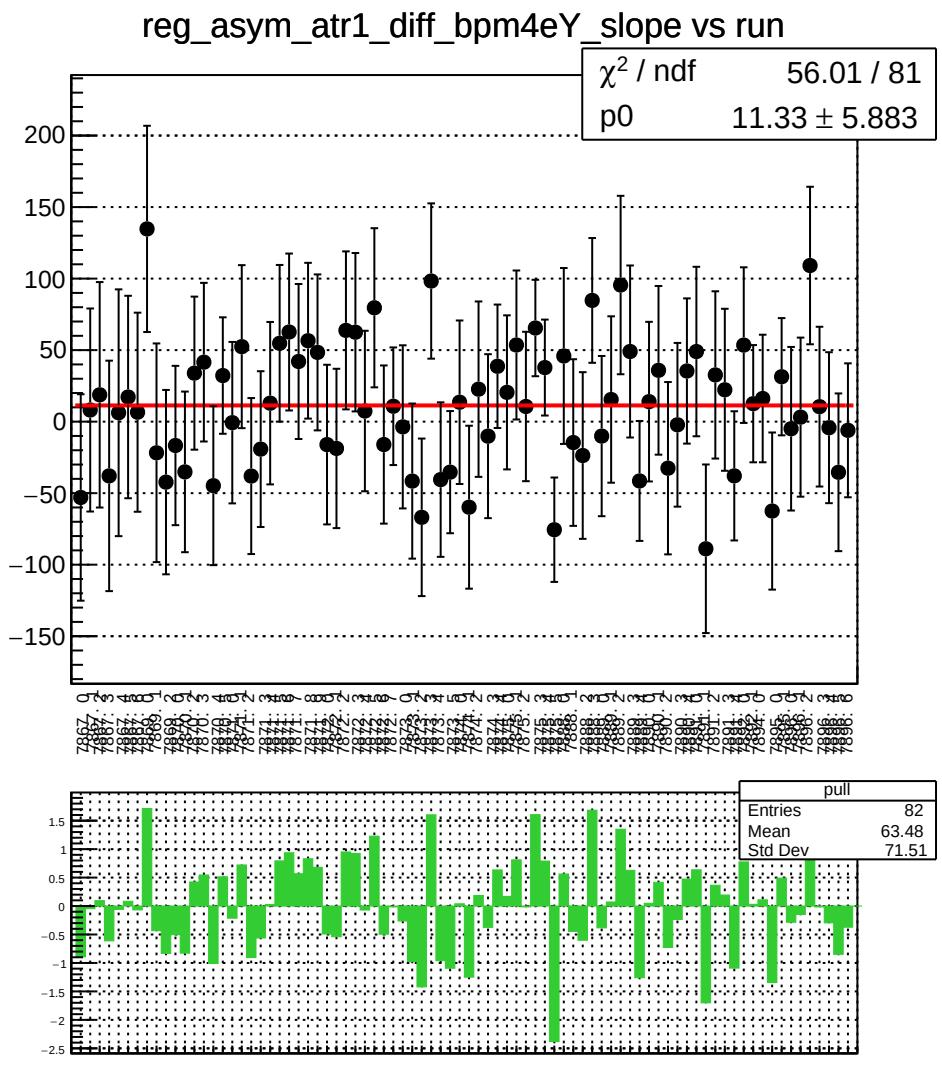

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 141.2 / 81
p0 −88.31 ± 4.566
pull
Entries 82
Mean −256.8
Std Dev 0

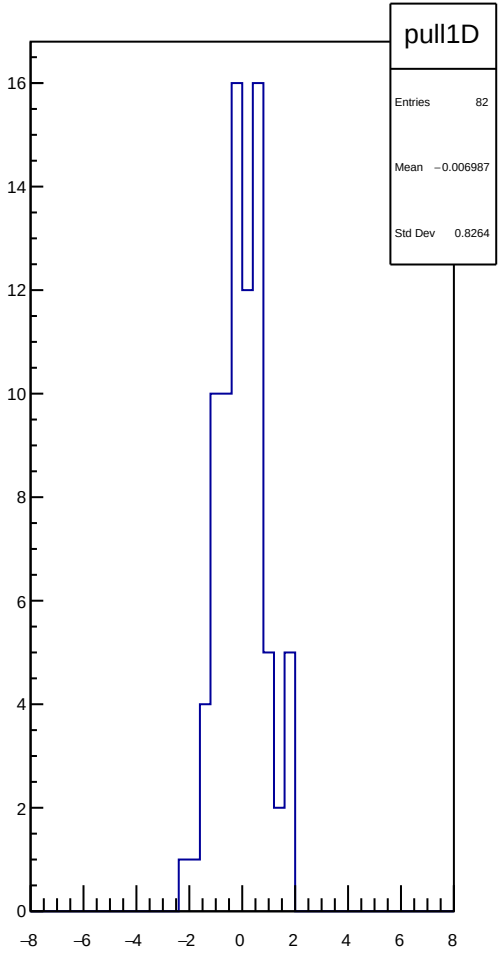

pull1D
Entries 82
Mean −0.02691
Std Dev 1.312

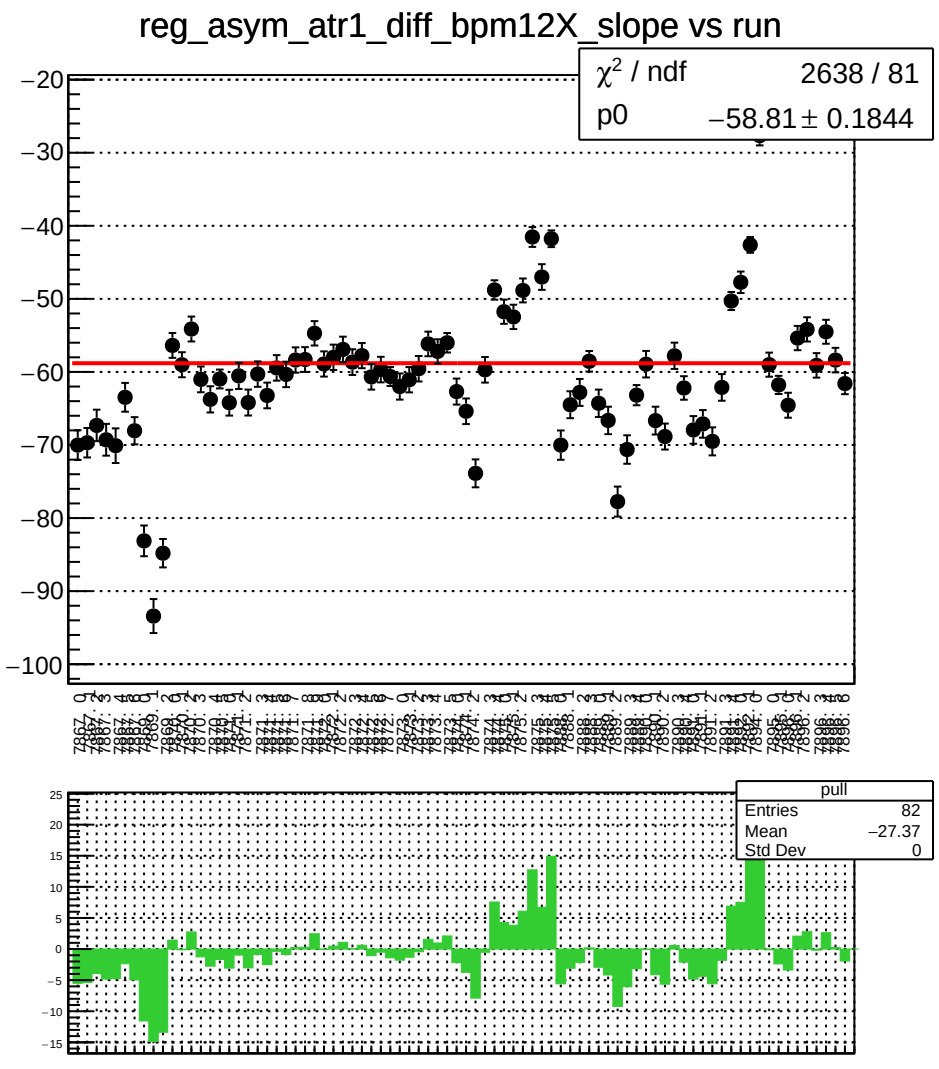

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 57.7 / 81
p0 12.73 ± 5.072
pull
Entries 82
Mean −10.37
Std Dev 0

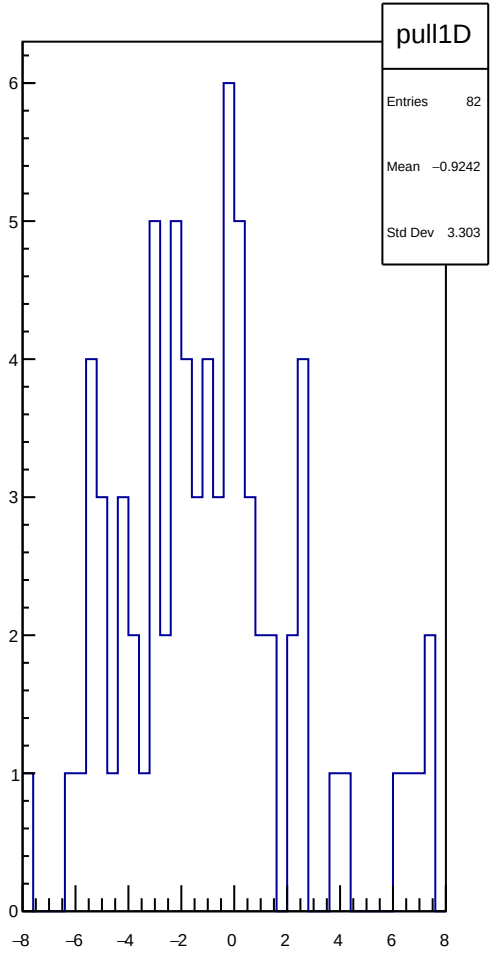

pull1D
Entries 82
Mean 0.03132
Std Dev 0.8383

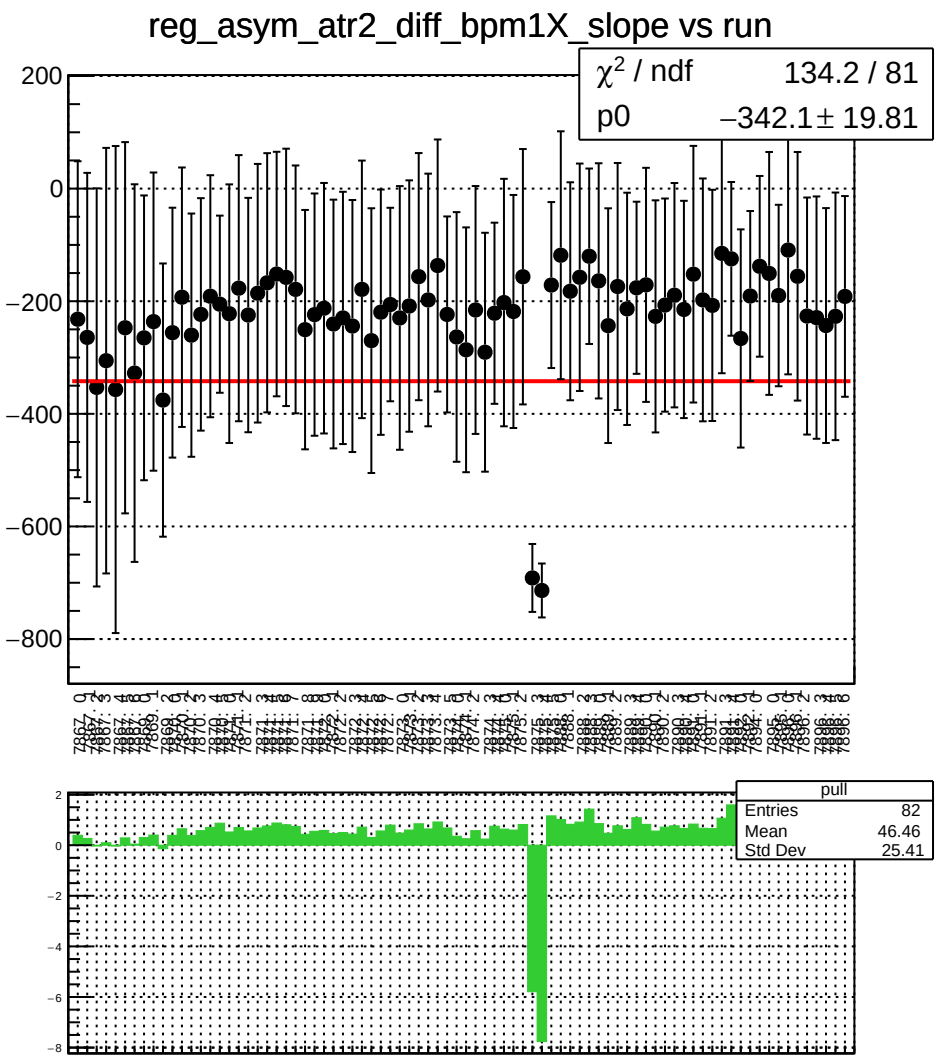

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 143.5 / 81
p0 25.74 ± 3.862
pull
Entries 82
Mean −3760
Std Dev 0
pull1D
Entries 82
Mean 0.002191
Std Dev 1.323

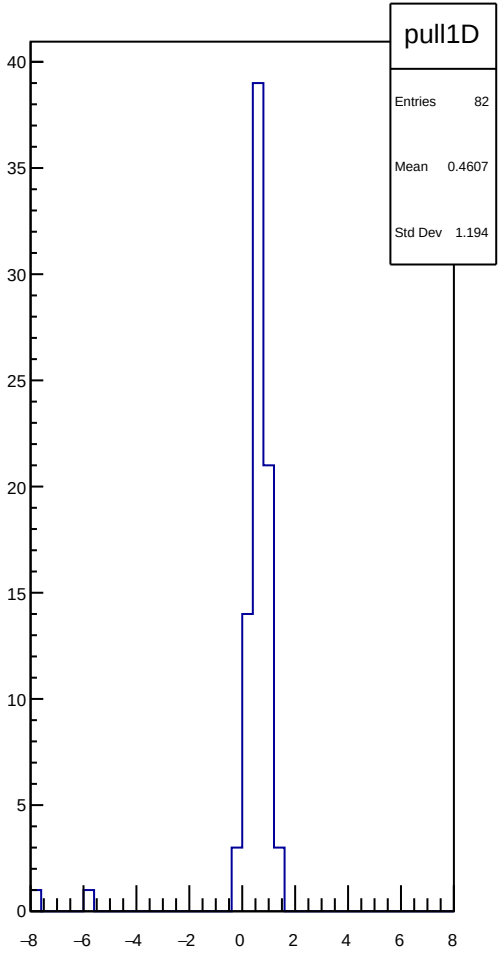

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 56.01 / 81
p0 11.33 ± 5.883
pull
Entries 82
Mean 63.48
Std Dev 71.51

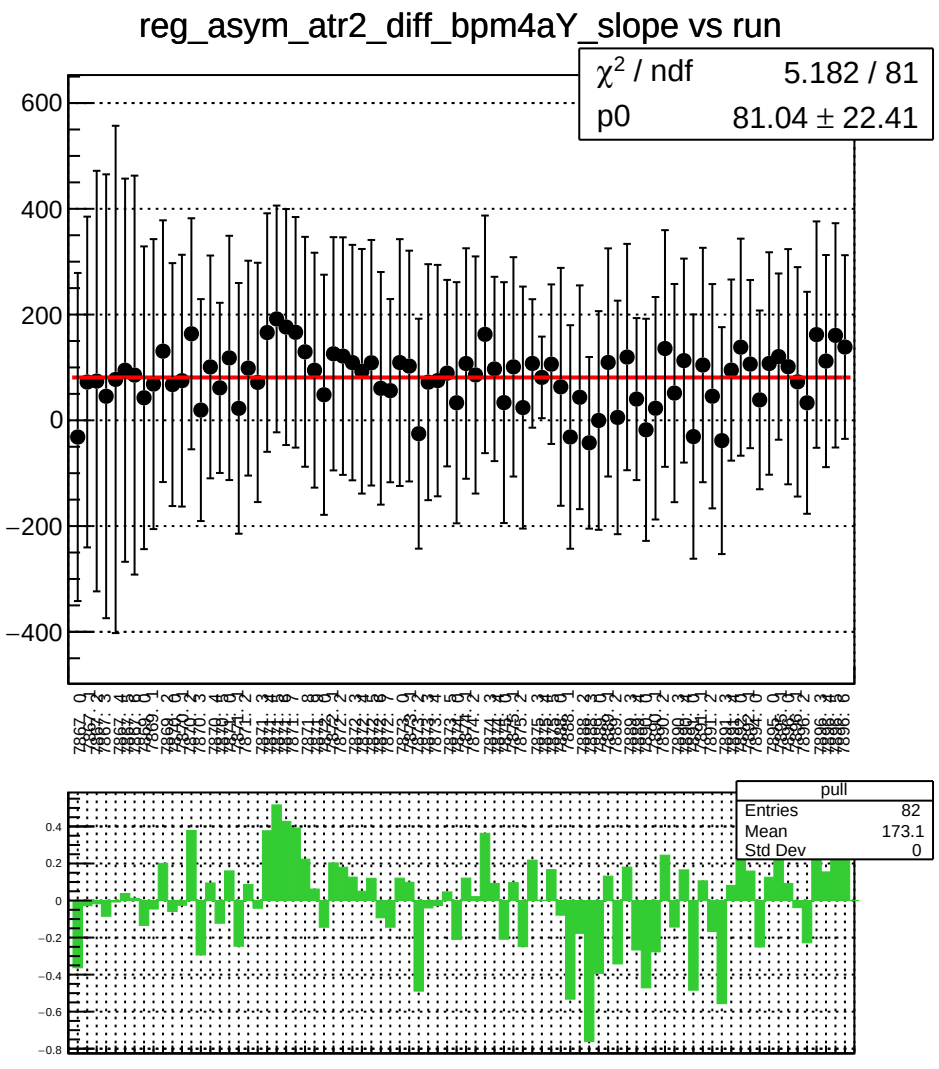

pull1D
Entries 82
Mean −0.006987
Std Dev 0.8264

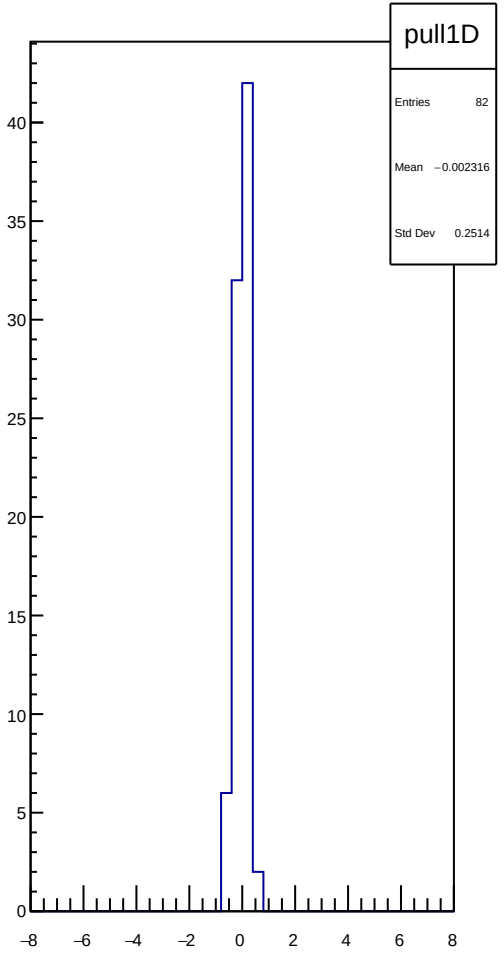

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 2638 / 81
p0 −58.81 ± 0.1844
pull
Entries 82
Mean −27.37
Std Dev 0

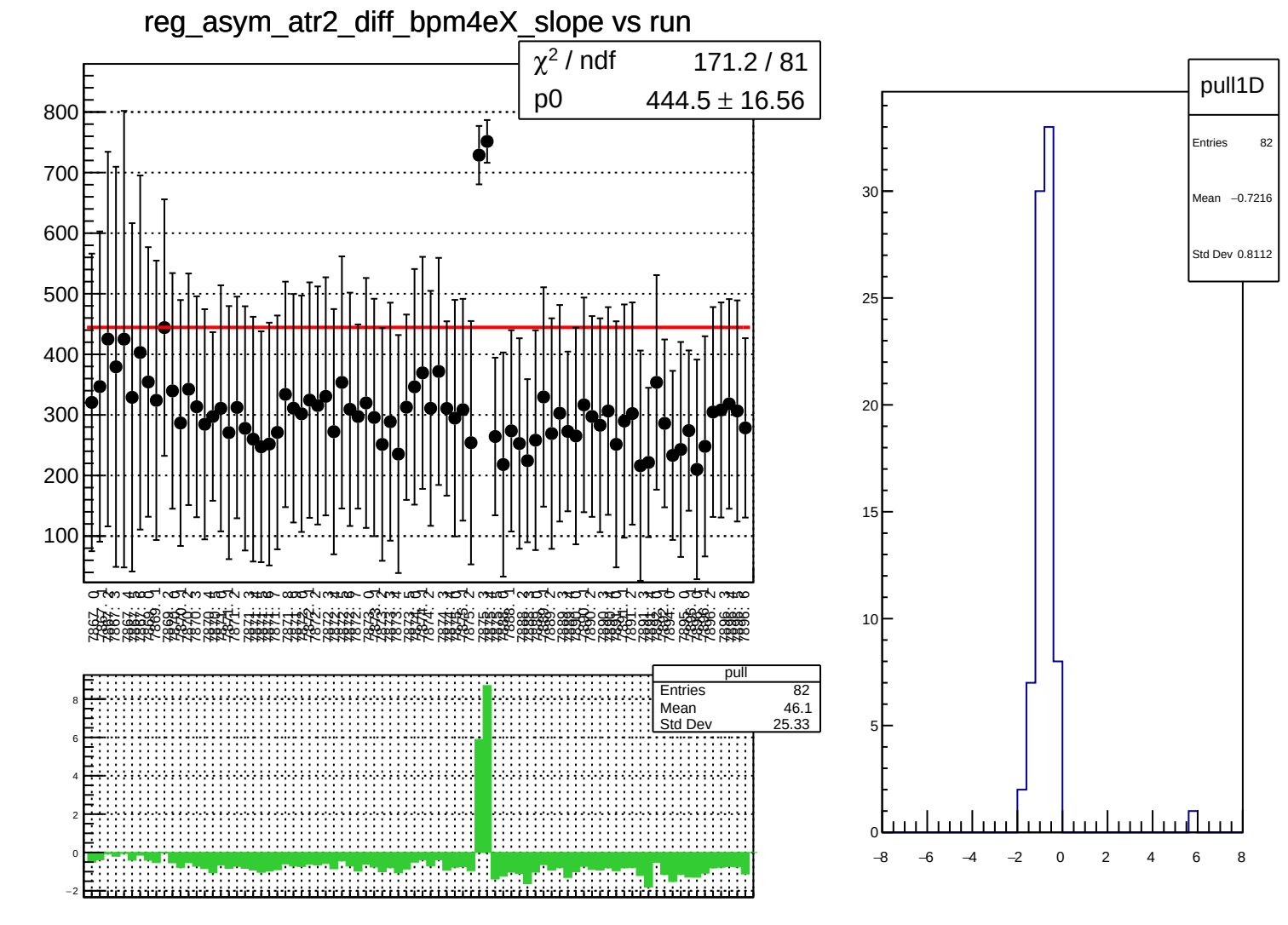

pull1D
Entries 82
Mean −0.9242
Std Dev 3.303

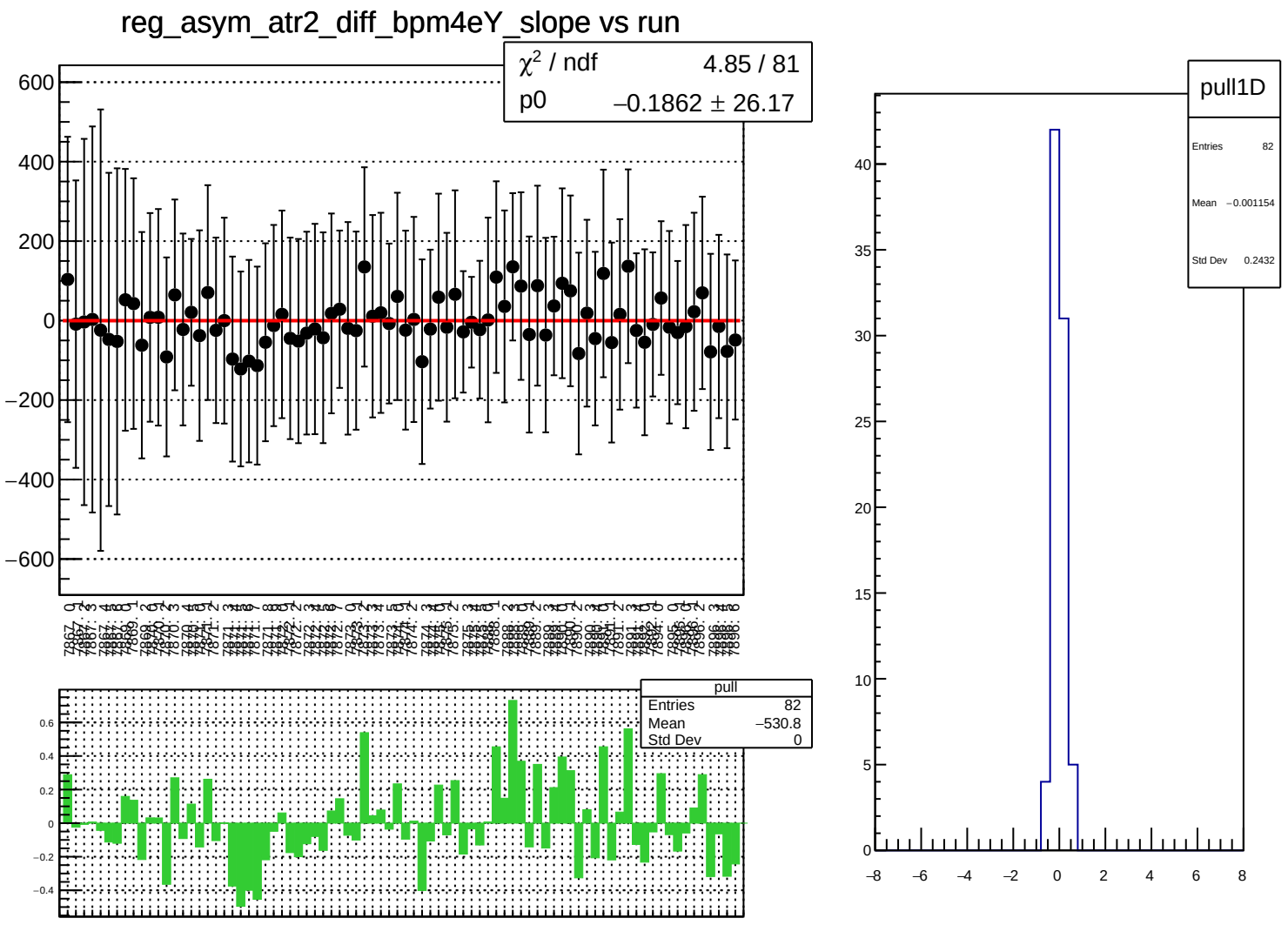

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 134.2 / 81
p0 −342.1 ± 19.81
pull
Entries 82
Mean 46.46
Std Dev 25.41

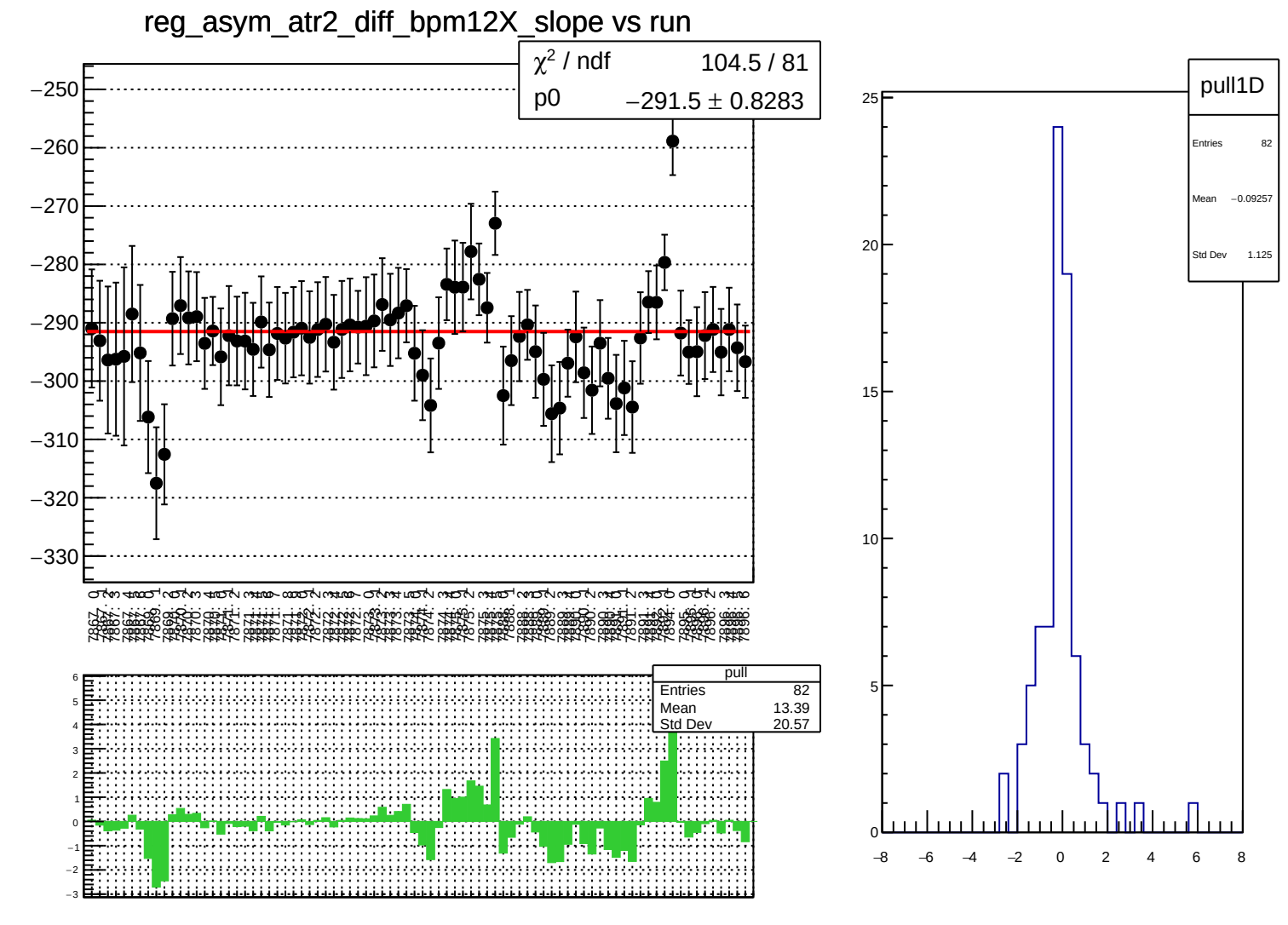

pull1D
Entries 82
Mean 0.4607
Std Dev 1.194

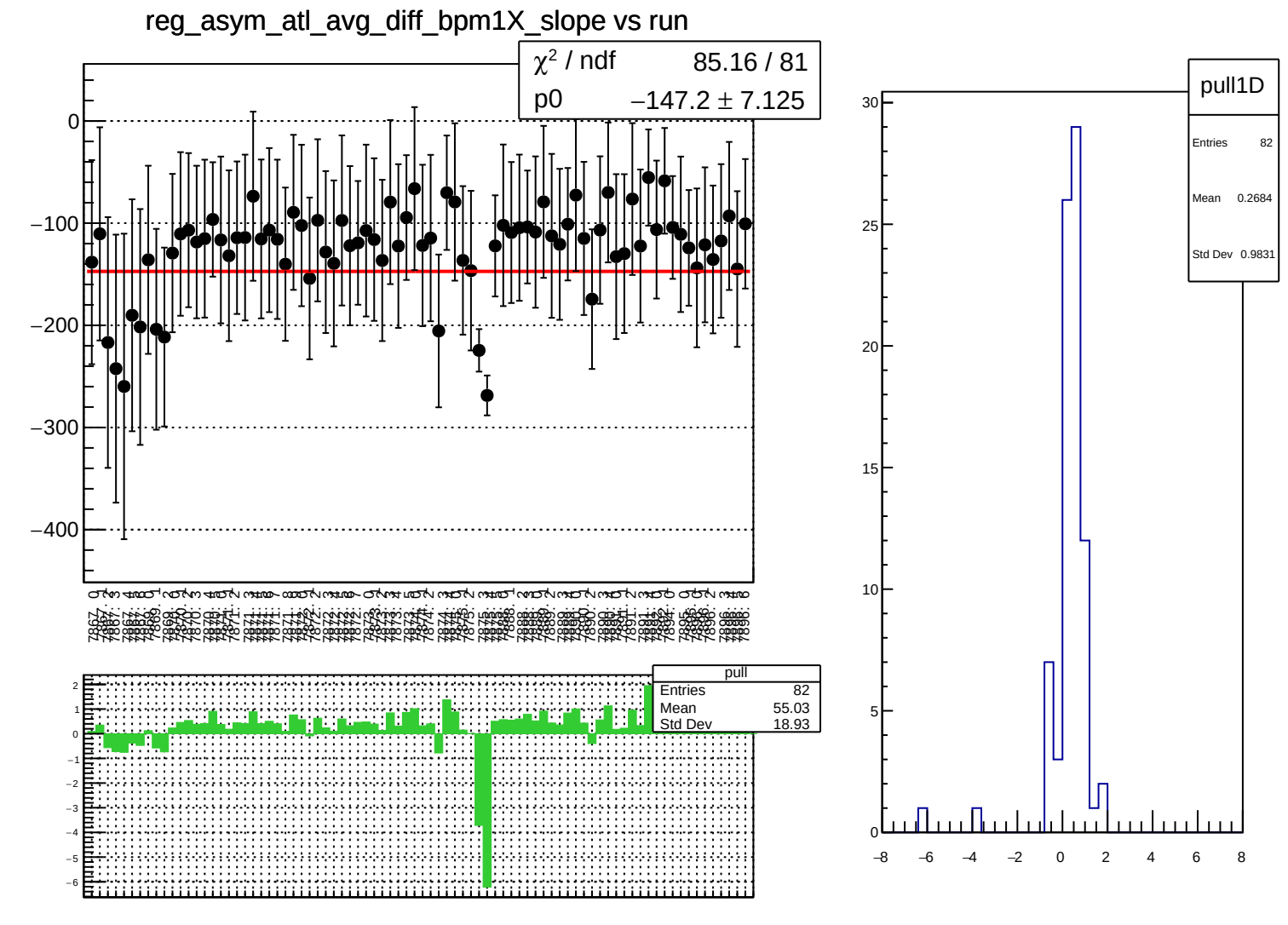

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.182 / 81
p0 81.04 ± 22.41
pull
Entries 82
Mean 173.1
Std Dev 0

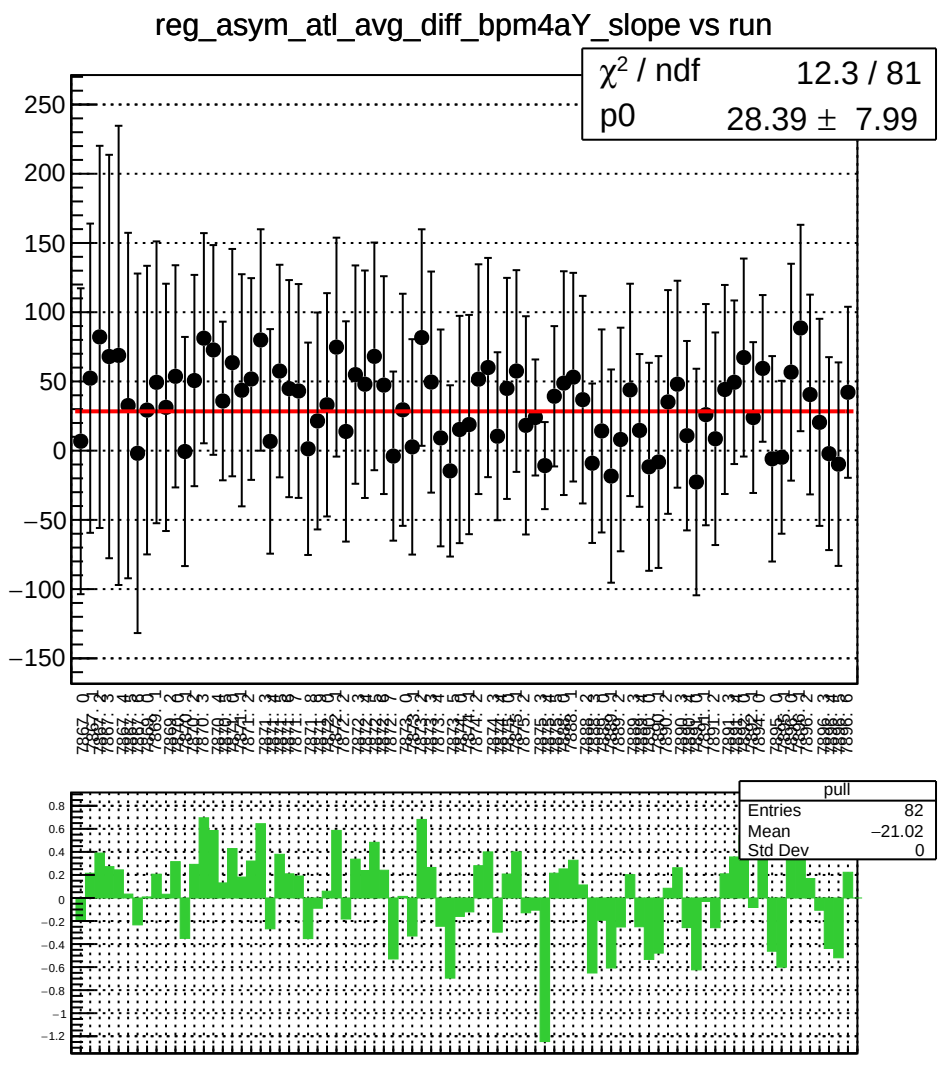

pull1D
Entries 82
Mean −0.002316
Std Dev 0.2514

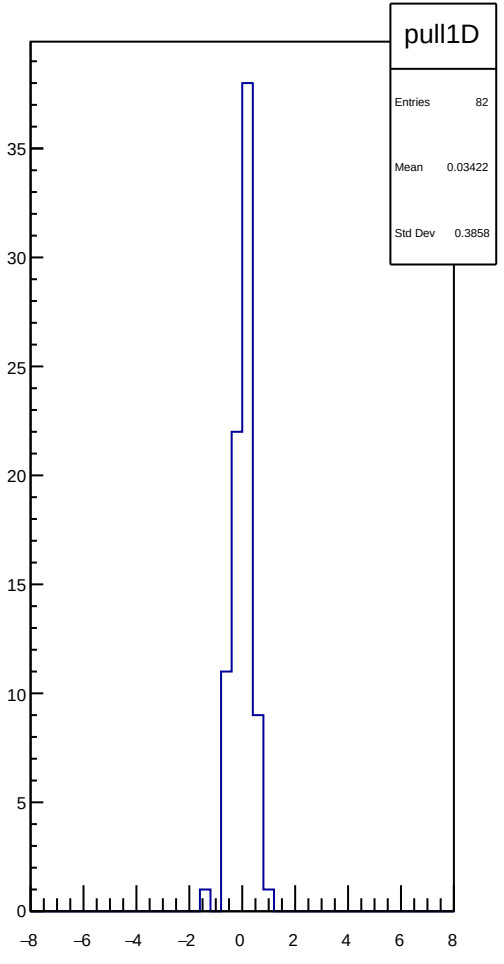

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 171.2 / 81
p0 444.5 ± 16.56
pull
Entries 82
Mean 46.1
Std Dev 25.33
pull1D
Entries 82
Mean −0.7216
Std Dev 0.8112

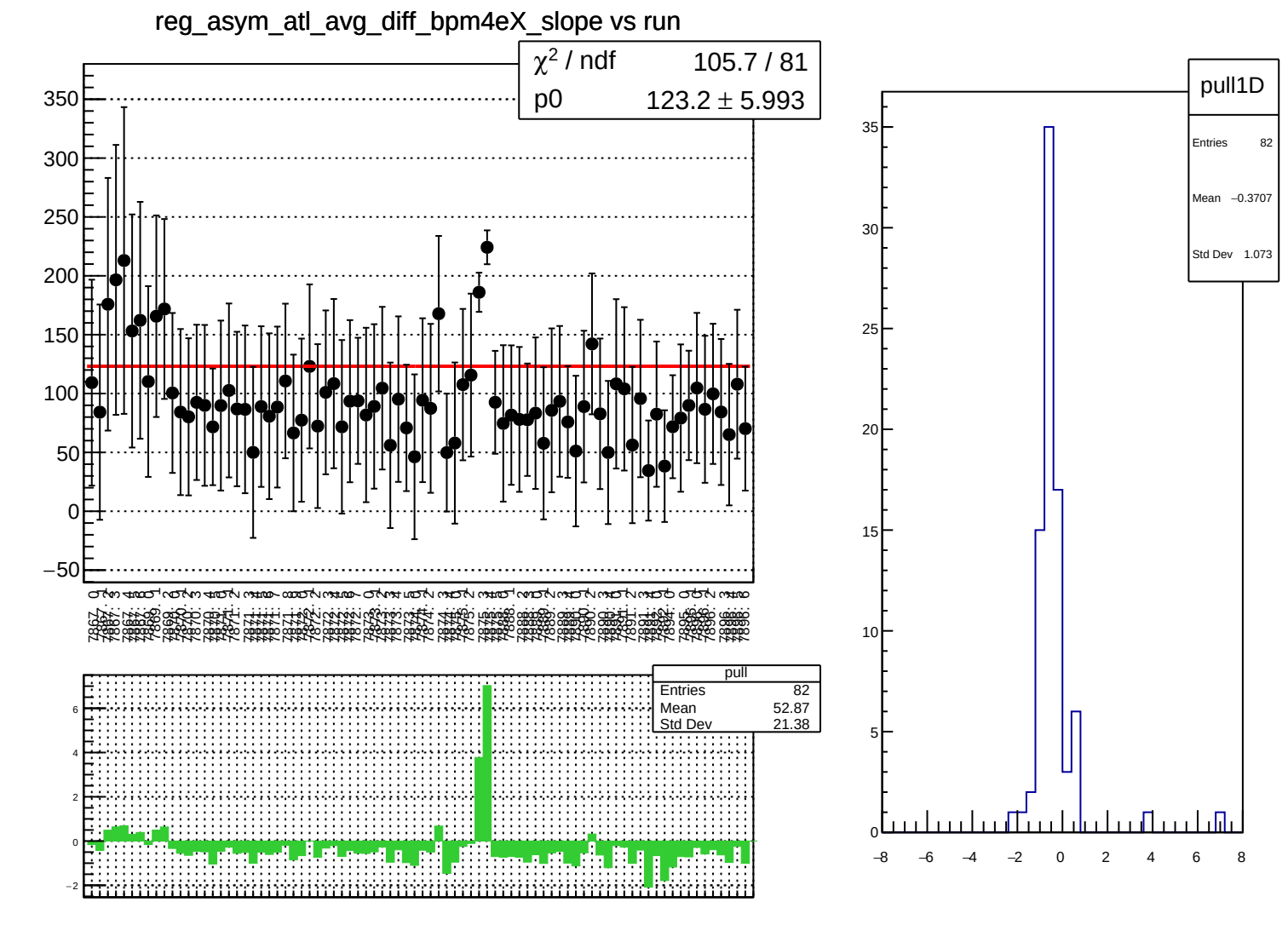

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.85 / 81
p0 −0.1862 ± 26.17
pull
Entries 82
Mean −530.8
Std Dev 0
pull1D
Entries 82
Mean −0.001154
Std Dev 0.2432

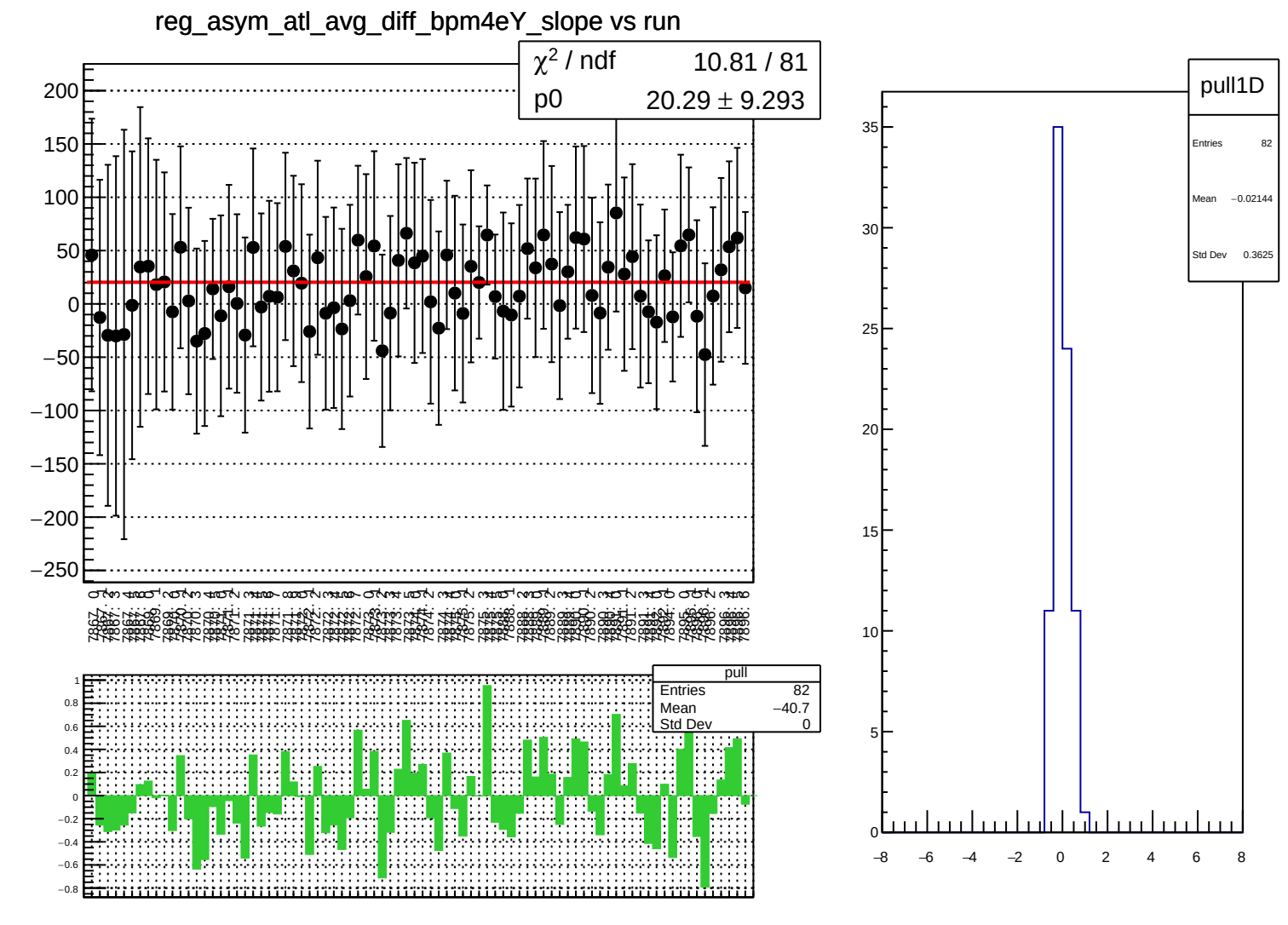

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 104.5 / 81
p0 −291.5 ± 0.8283
pull
Entries 82
Mean 13.39
Std Dev 20.57
pull1D
Entries 82
Mean −0.09257
Std Dev 1.125

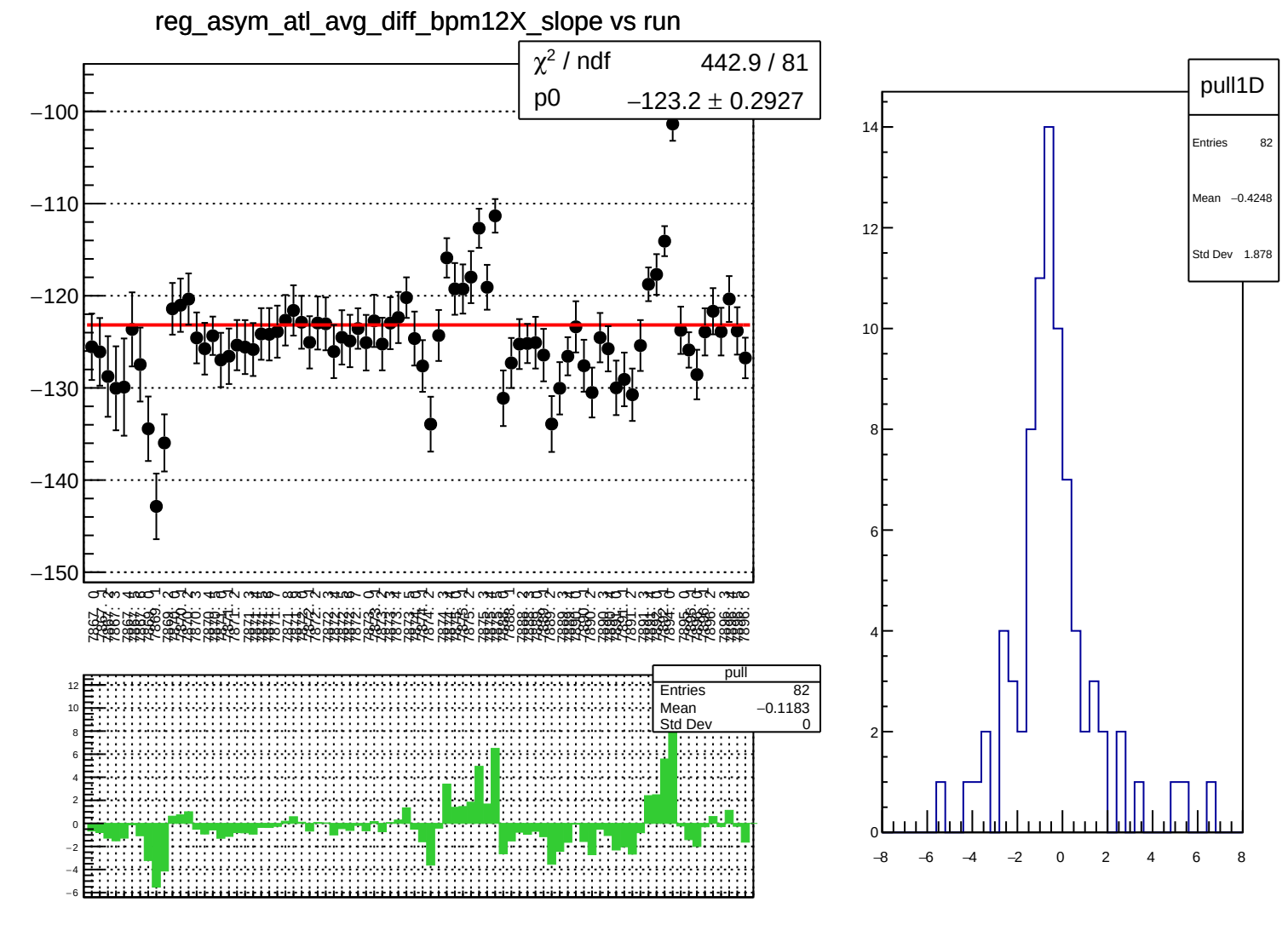

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 85.16 / 81
p0 −147.2 ± 7.125
pull
Entries 82
Mean 55.03
Std Dev 18.93
pull1D
Entries 82
Mean 0.2684
Std Dev 0.9831

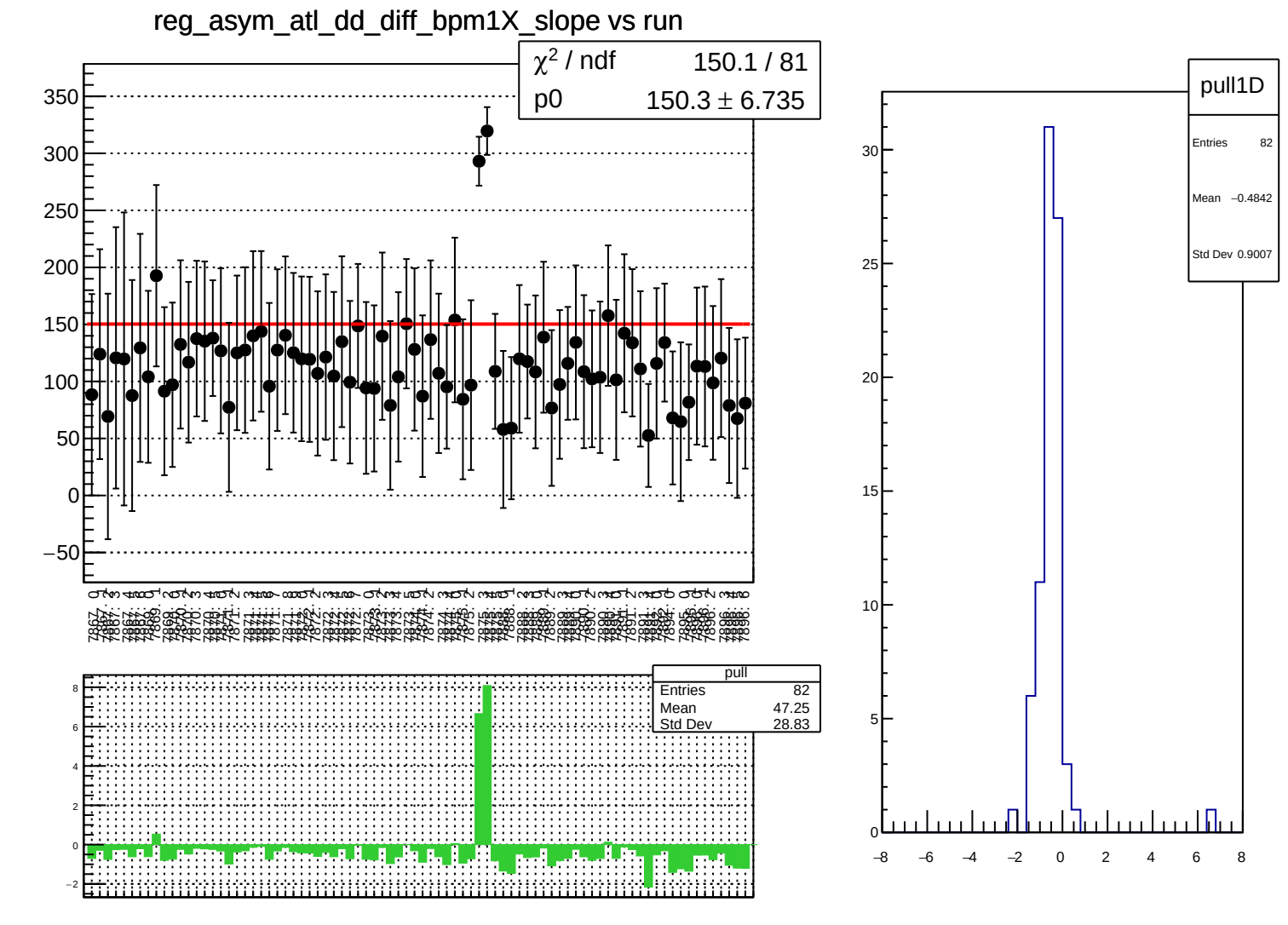

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.3 / 81
p0 28.39 ± 7.99
pull
Entries 82
Mean −21.02
Std Dev 0

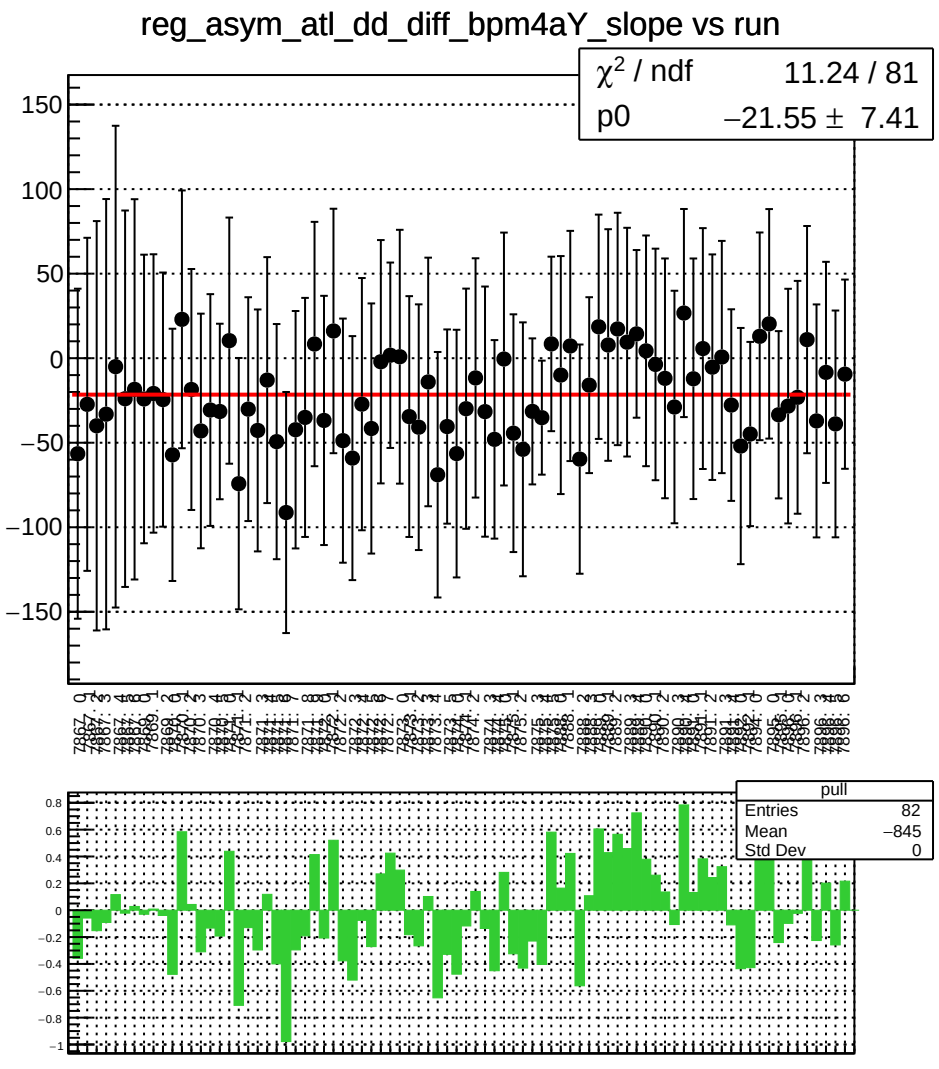

pull1D
Entries 82
Mean 0.03422
Std Dev 0.3858

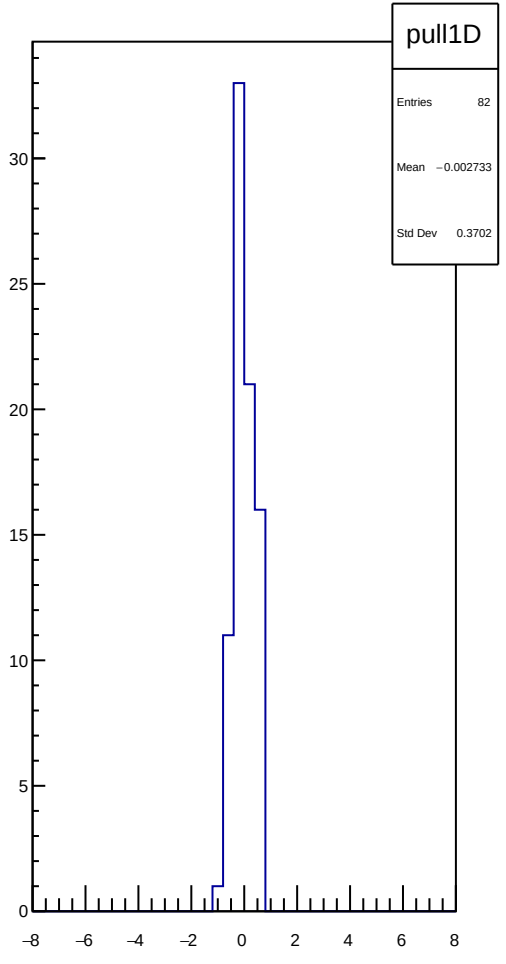

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.7 / 81
p0 123.2 ± 5.993
pull
Entries 82
Mean 52.87
Std Dev 21.38
pull1D
Entries 82
Mean −0.3707
Std Dev 1.073

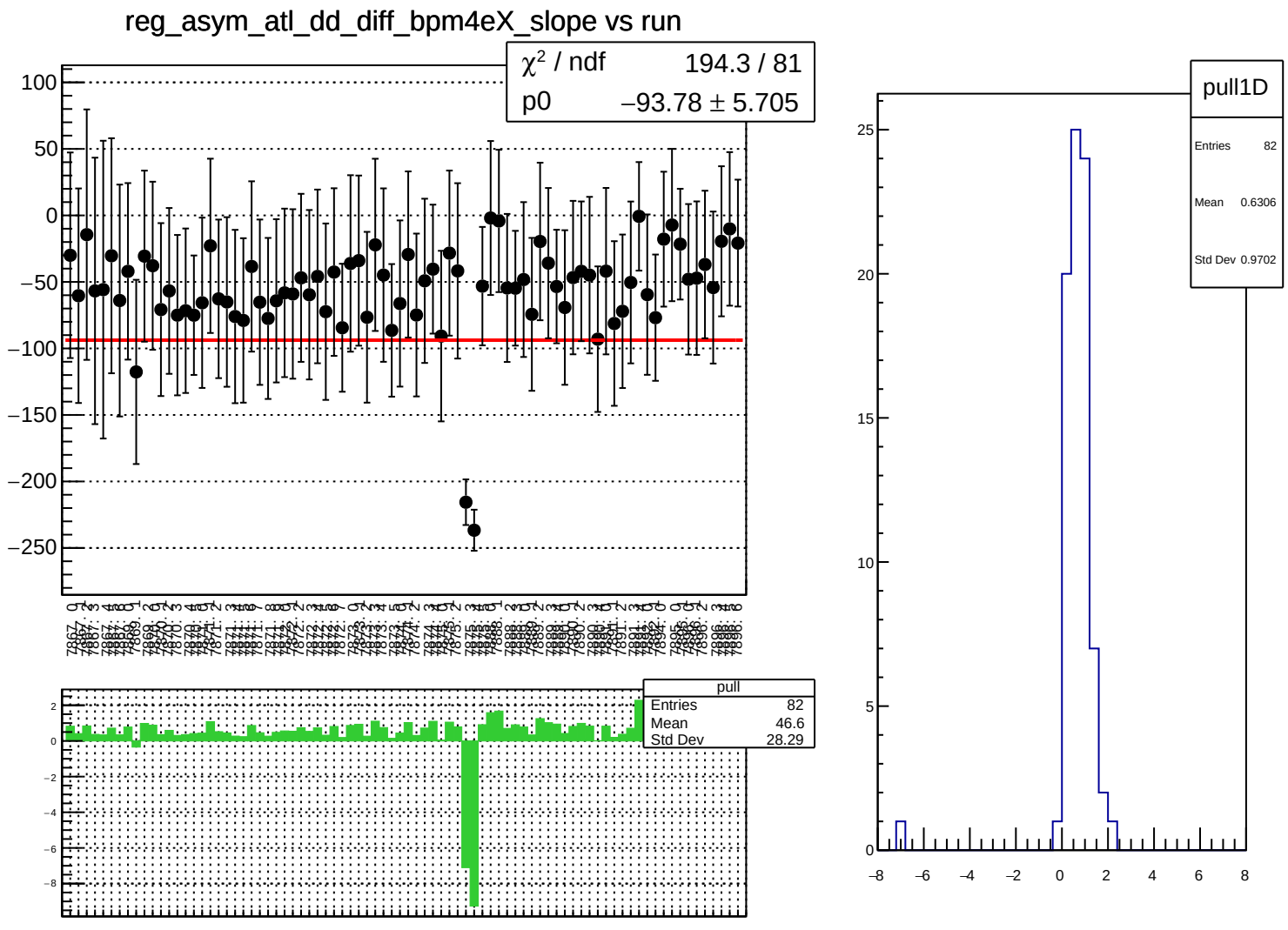

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.81 / 81
p0 20.29 ± 9.293
pull
Entries 82
Mean −40.7
Std Dev 0
pull1D
Entries 82
Mean −0.02144
Std Dev 0.3625

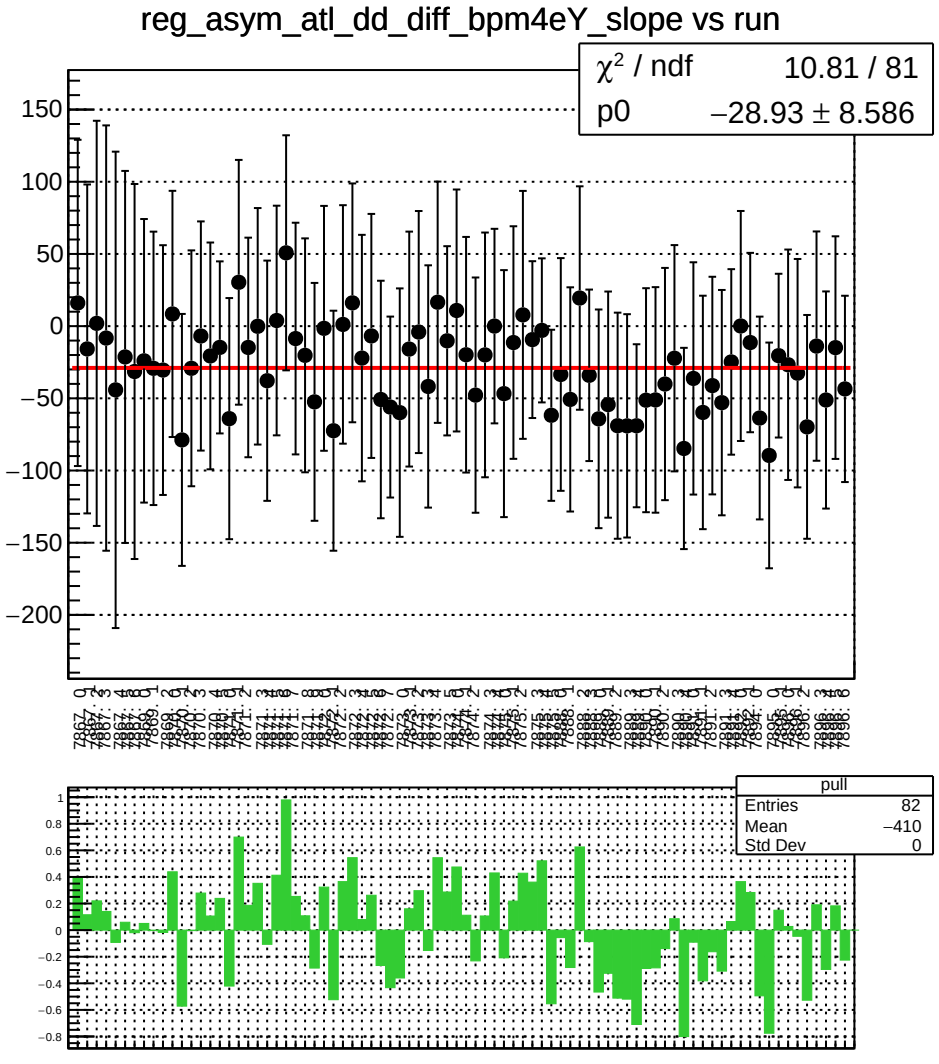

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 442.9 / 81
p0 −123.2 ± 0.2927
pull
Entries 82
Mean −0.1183
Std Dev 0
pull1D
Entries 82
Mean −0.4248
Std Dev 1.878

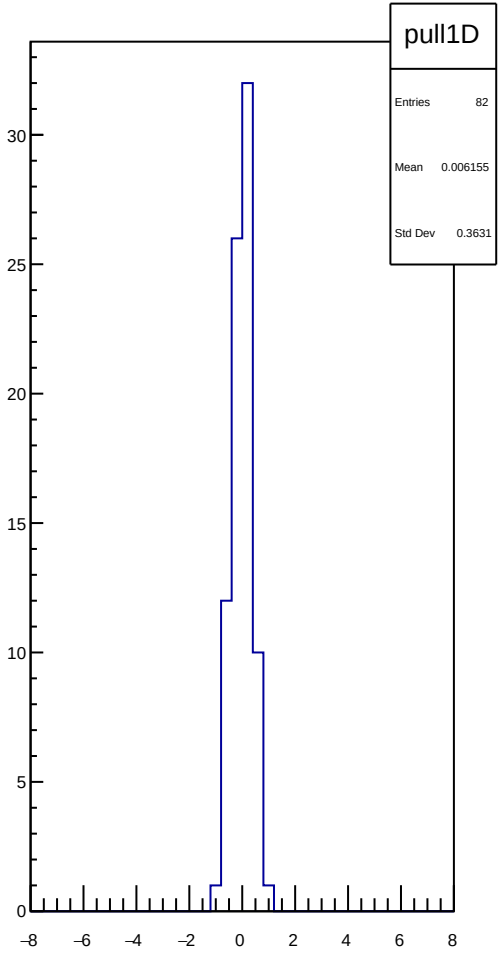

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 150.1 / 81
p0 150.3 ± 6.735
pull
Entries 82
Mean 47.25
Std Dev 28.83
pull1D
Entries 82
Mean −0.4842
Std Dev 0.9007

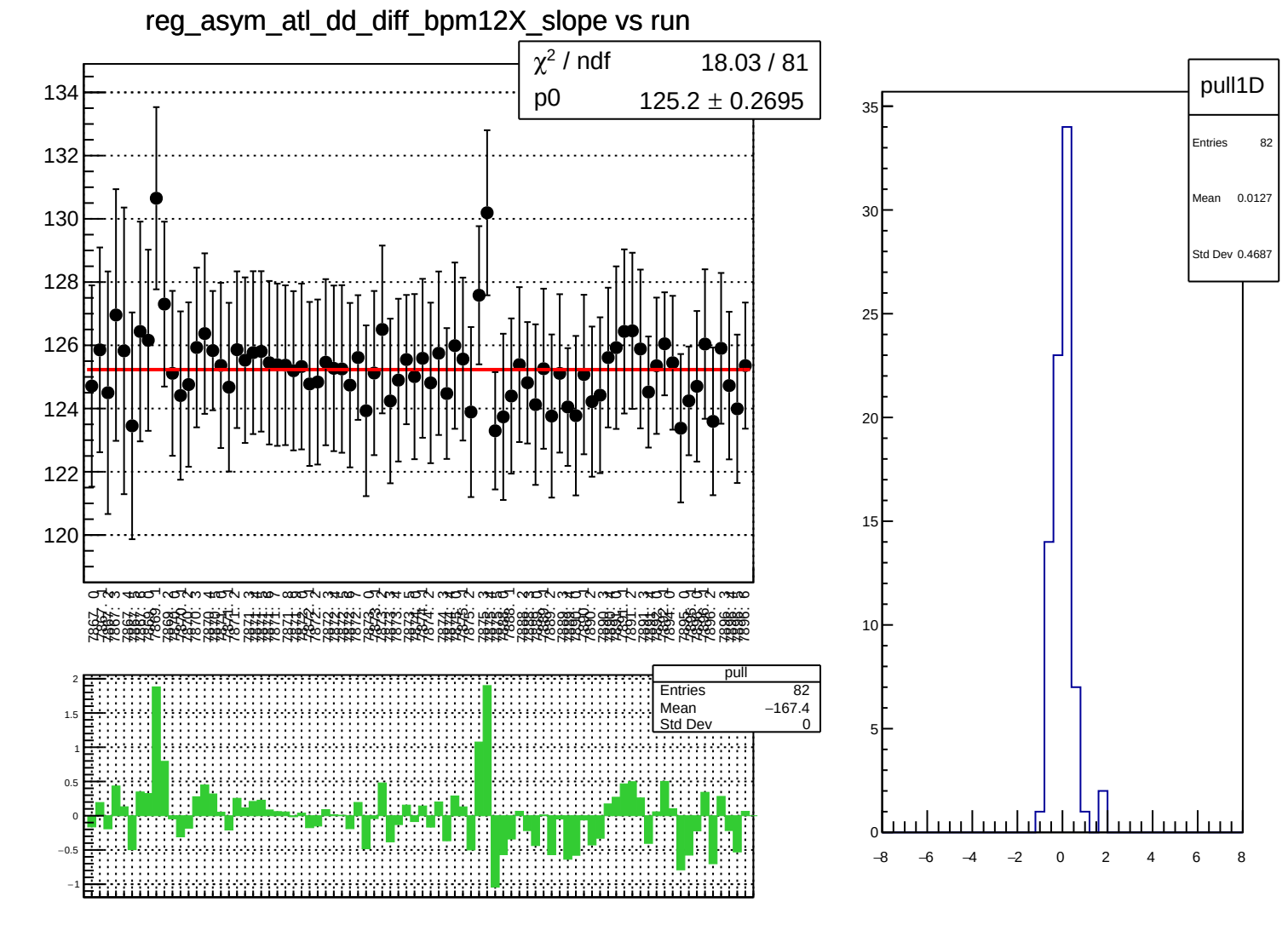

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.24 / 81
p0 −21.55 ± 7.41
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −845
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

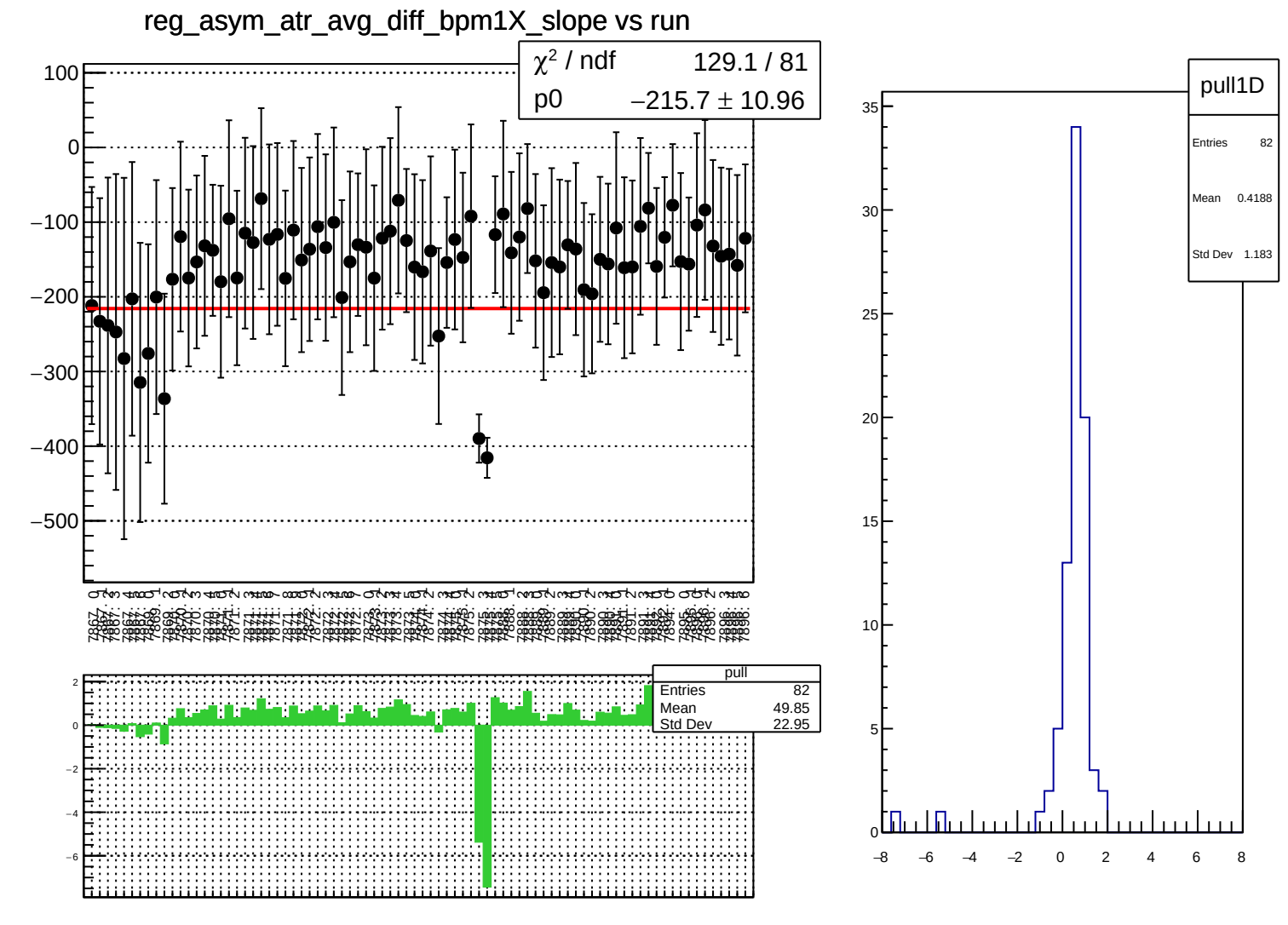

pull1D
Entries 82
Mean −0.002733
Std Dev 0.3702
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

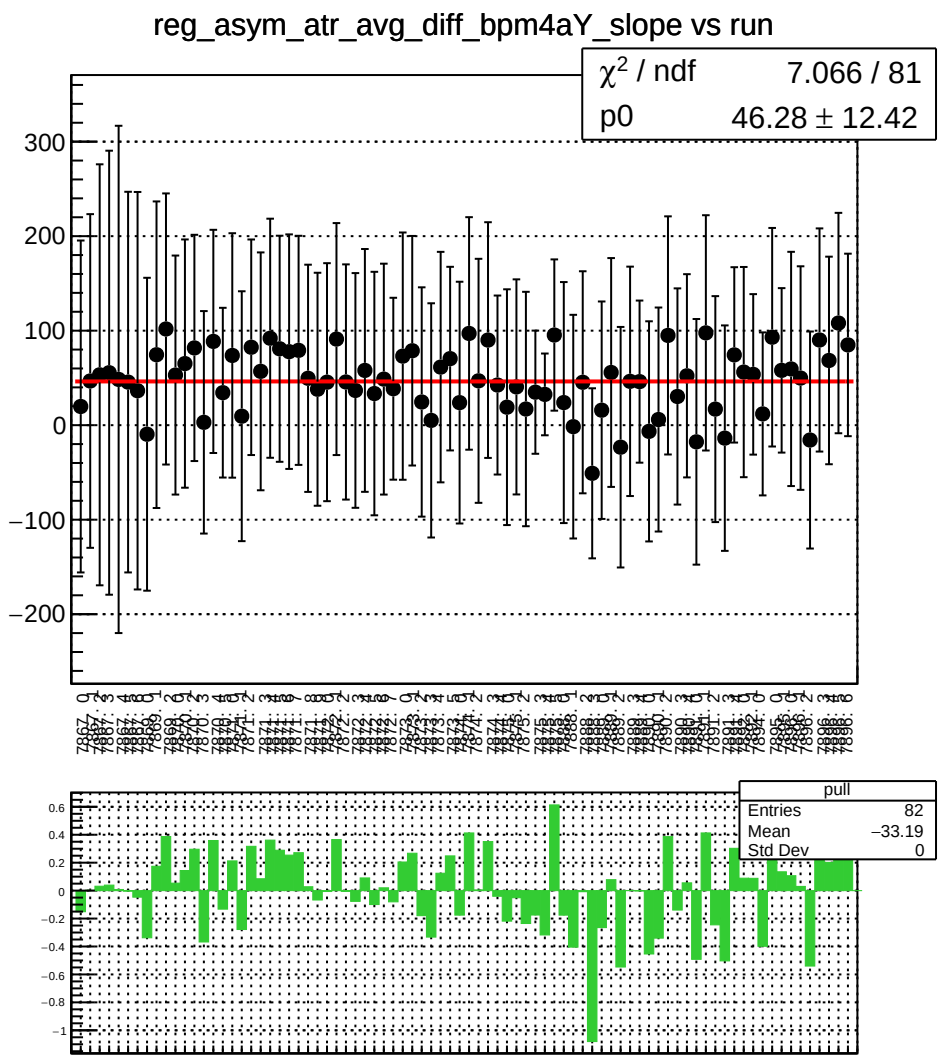

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 194.3 / 81
p0 −93.78 ± 5.705
pull
Entries 82
Mean 46.6
Std Dev 28.29
pull1D
Entries 82
Mean 0.6306
Std Dev 0.9702

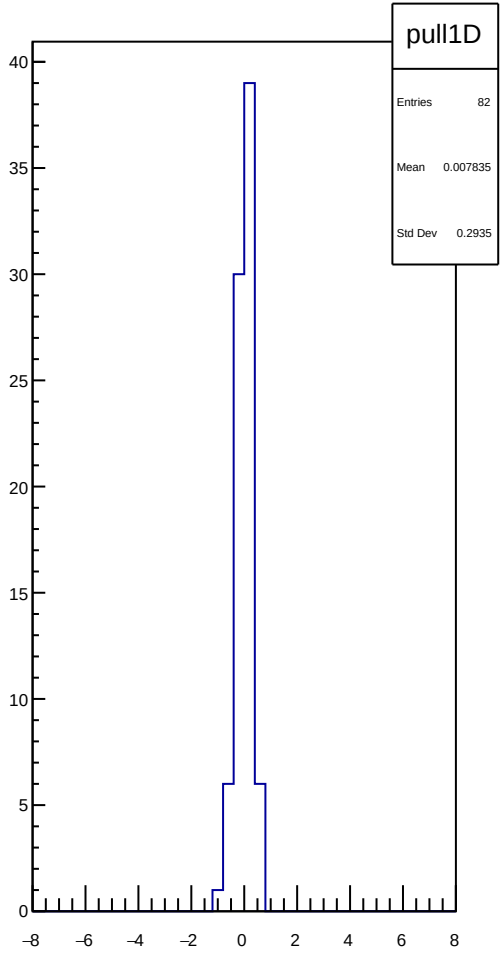

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.81 / 81
p0 −28.93 ± 8.586
pull
Entries 82
Mean −410
Std Dev 0

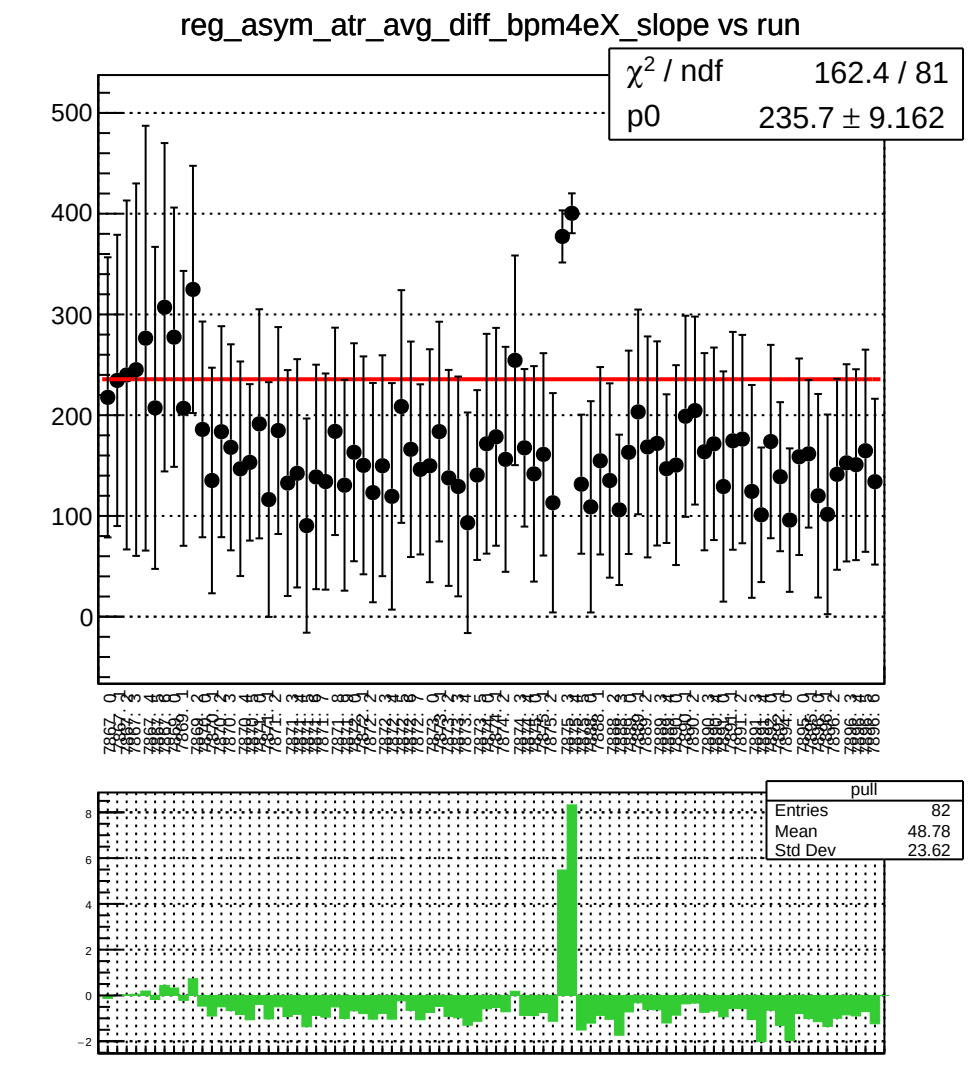

pull1D
Entries 82
Mean 0.006155
Std Dev 0.3631

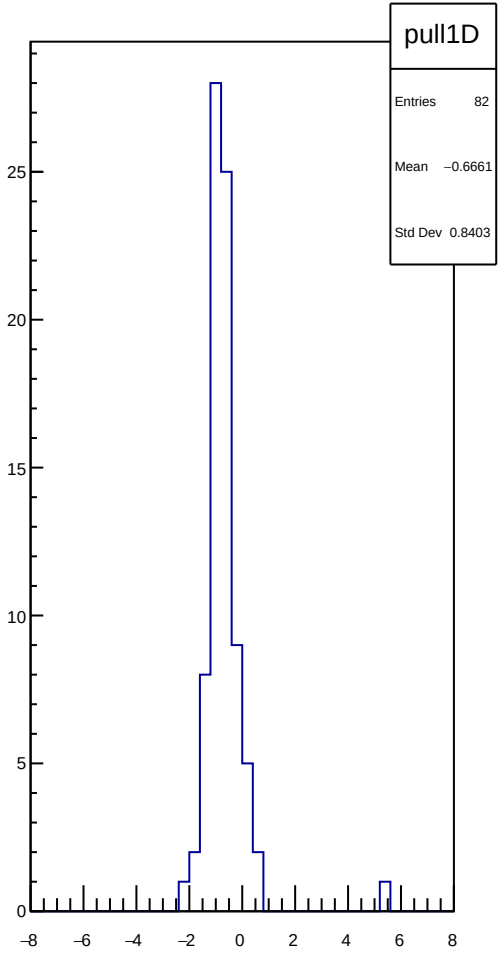

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 18.03 / 81
p0 125.2 ± 0.2695
134
132
130
128
126
124
122
120
pull
Entries 82
Mean −167.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 82
Mean 0.0127
Std Dev 0.4687
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

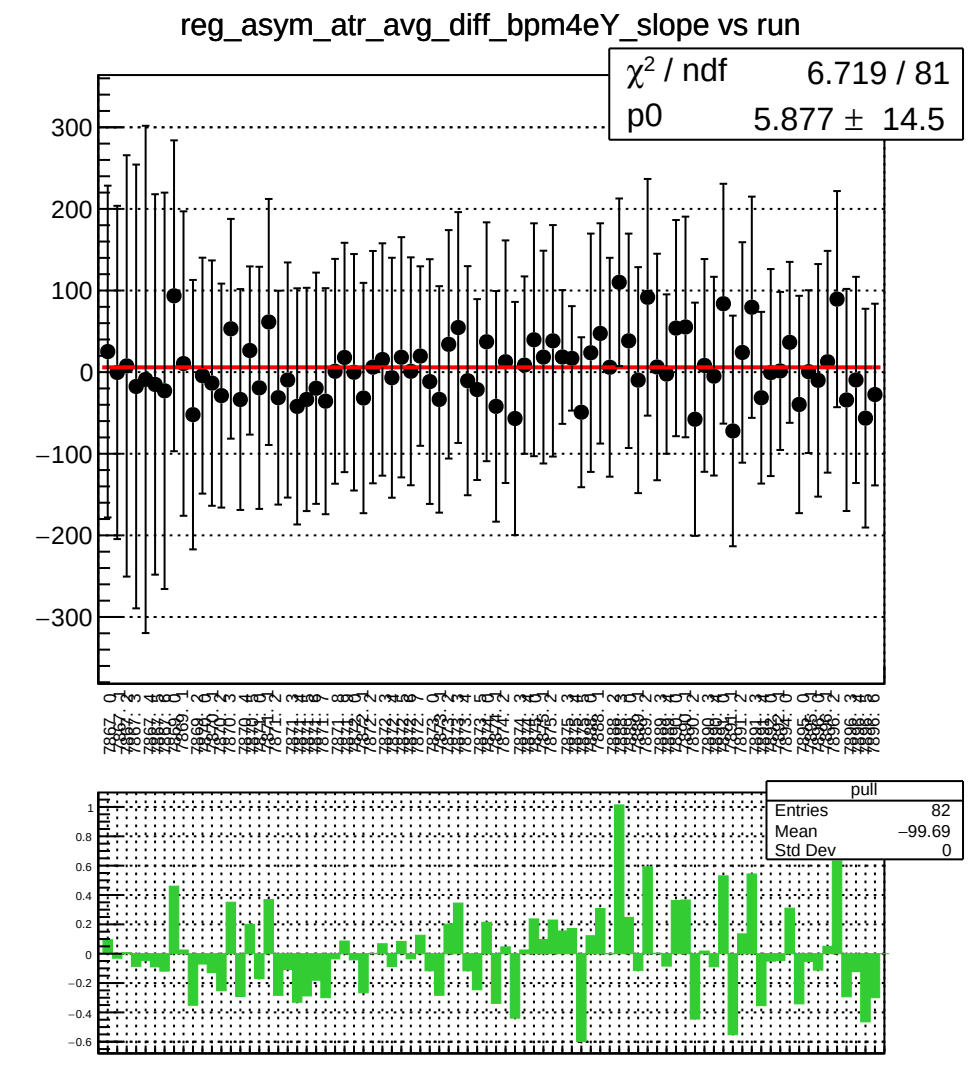

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 129.1 / 81
p0 −215.7 ± 10.96
pull
Entries 82
Mean 49.85
Std Dev 22.95
pull1D
Entries 82
Mean 0.4188
Std Dev 1.183

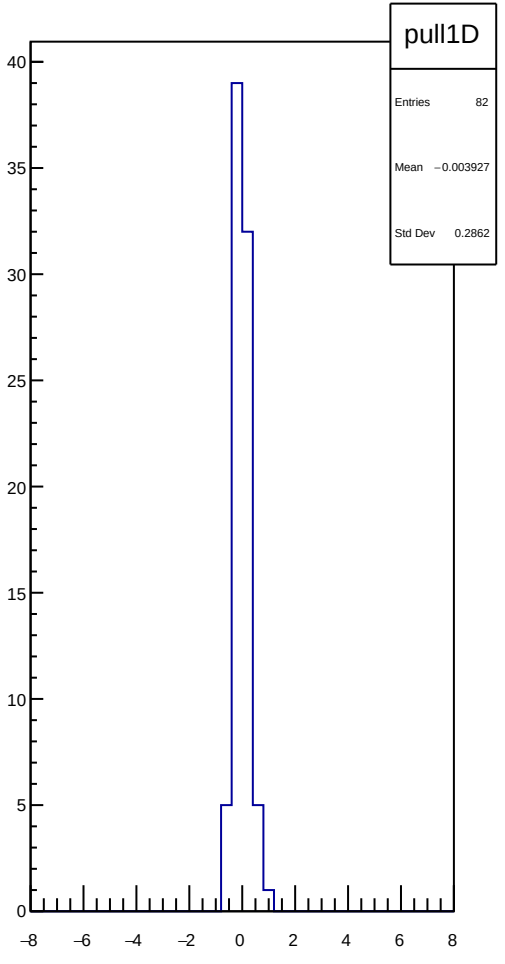

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.066 / 81
p0 46.28 ± 12.42
300
200
100
0
−100
−200
pull
Entries 82
Mean −33.19
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

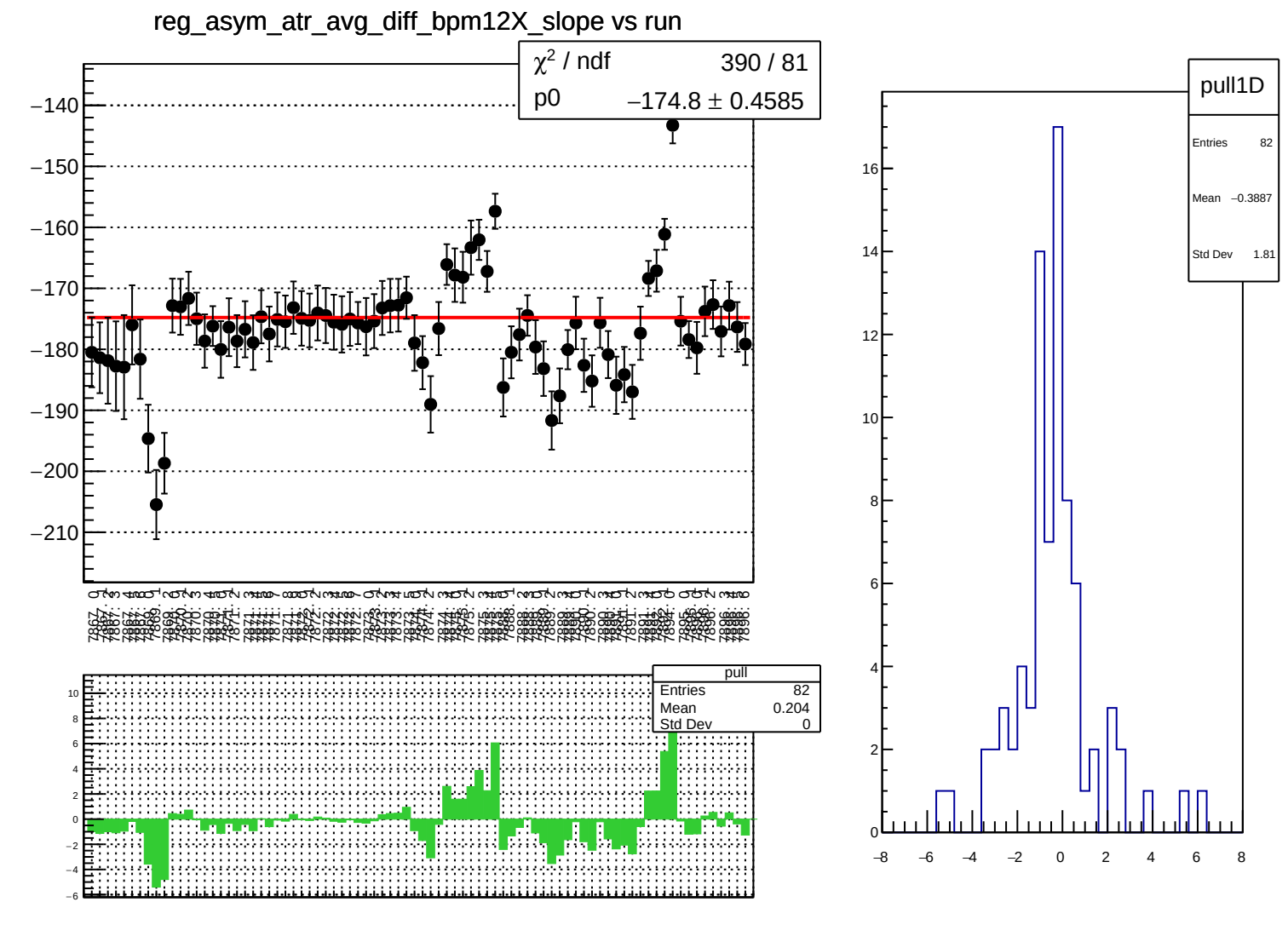

pull1D
Entries 82
Mean 0.007835
Std Dev 0.2935
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

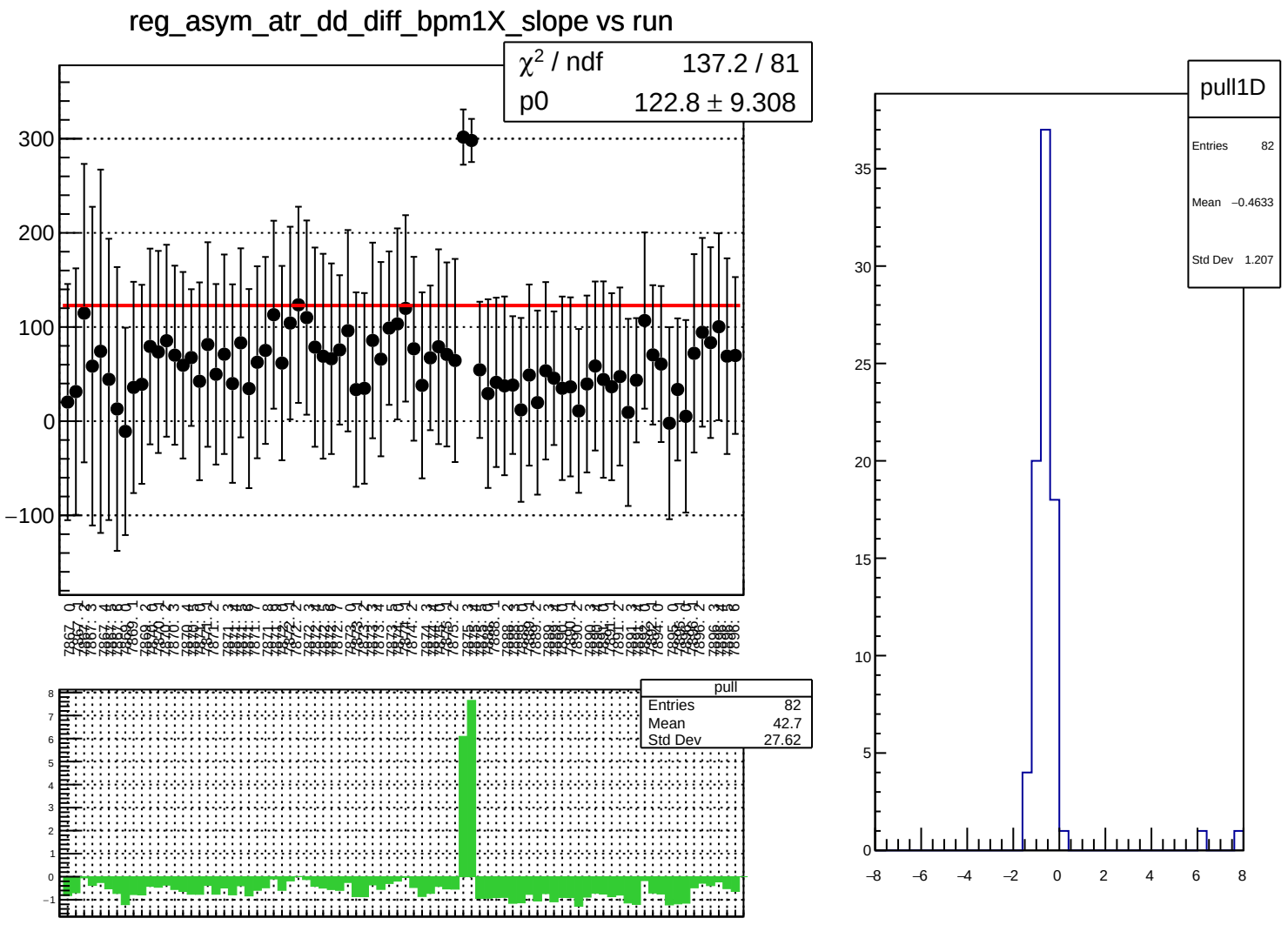

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 162.4 / 81
p0 235.7 ± 9.162
pull
Entries 82
Mean 48.78
Std Dev 23.62

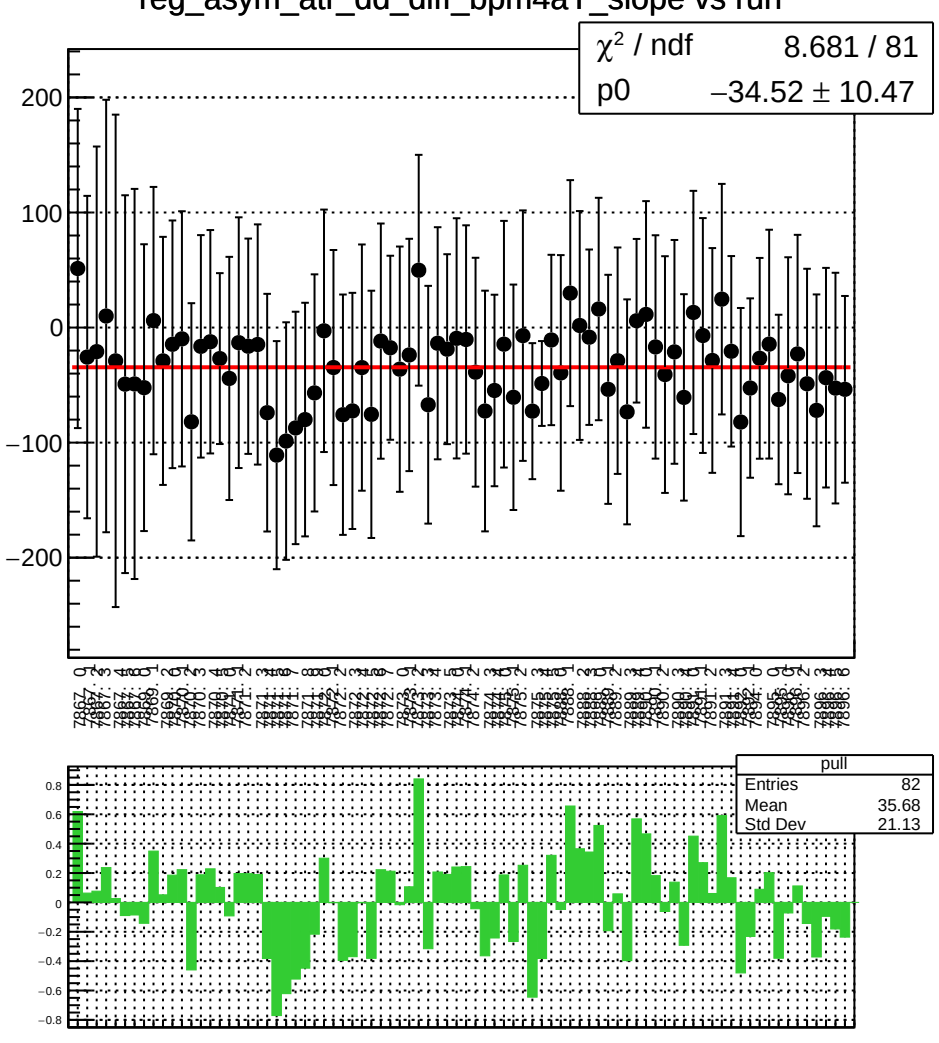

pull1D
Entries 82
Mean −0.6661
Std Dev 0.8403

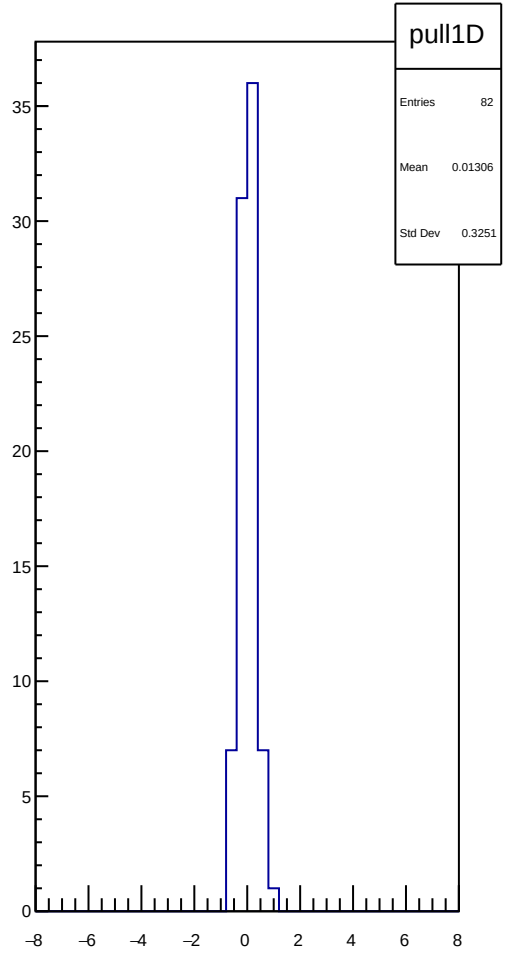

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.719 / 81
p0 5.877 ± 14.5
pull
Entries 82
Mean −99.69
Std Dev 0

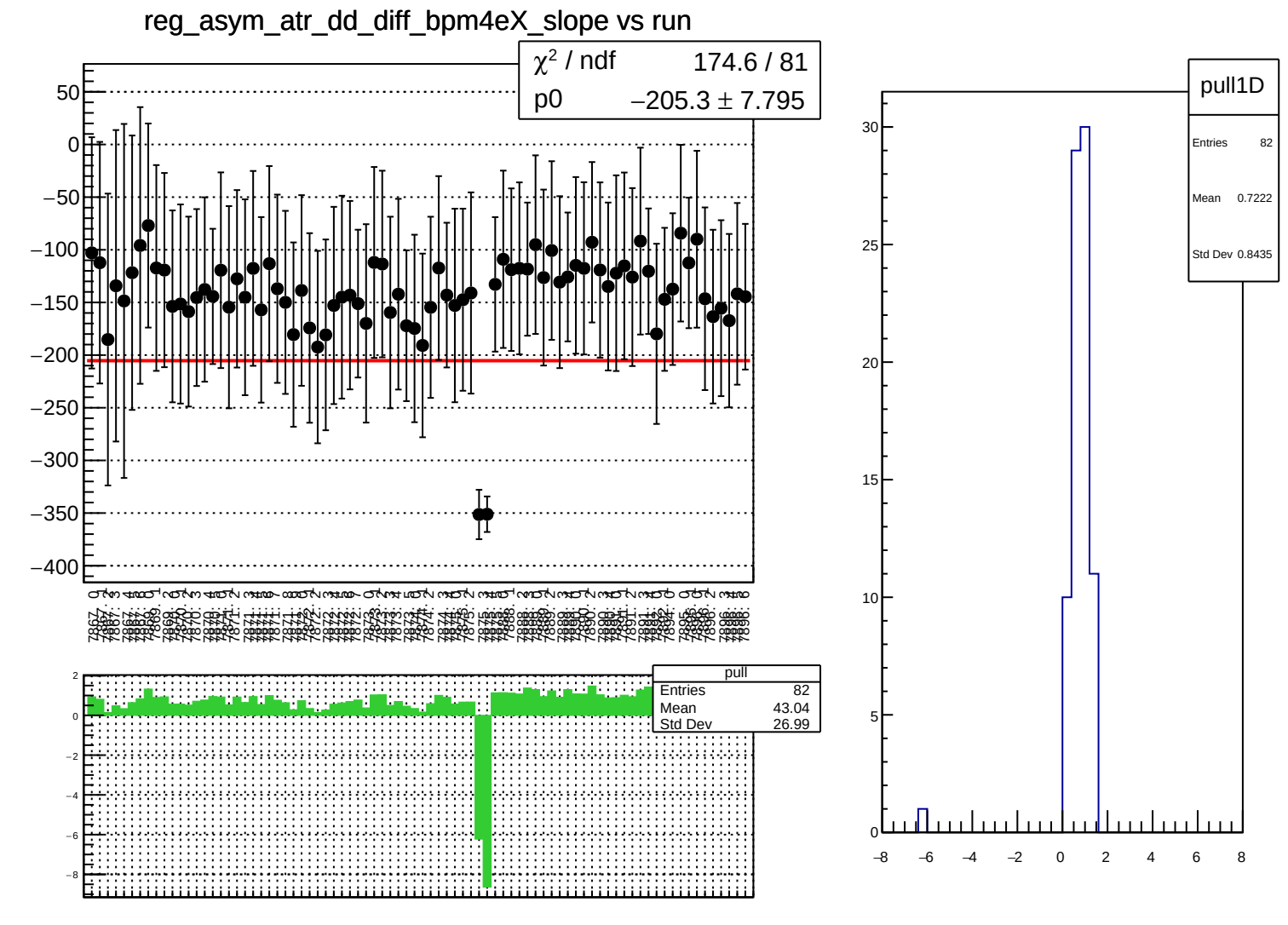

pull1D
Entries 82
Mean −0.003927
Std Dev 0.2862

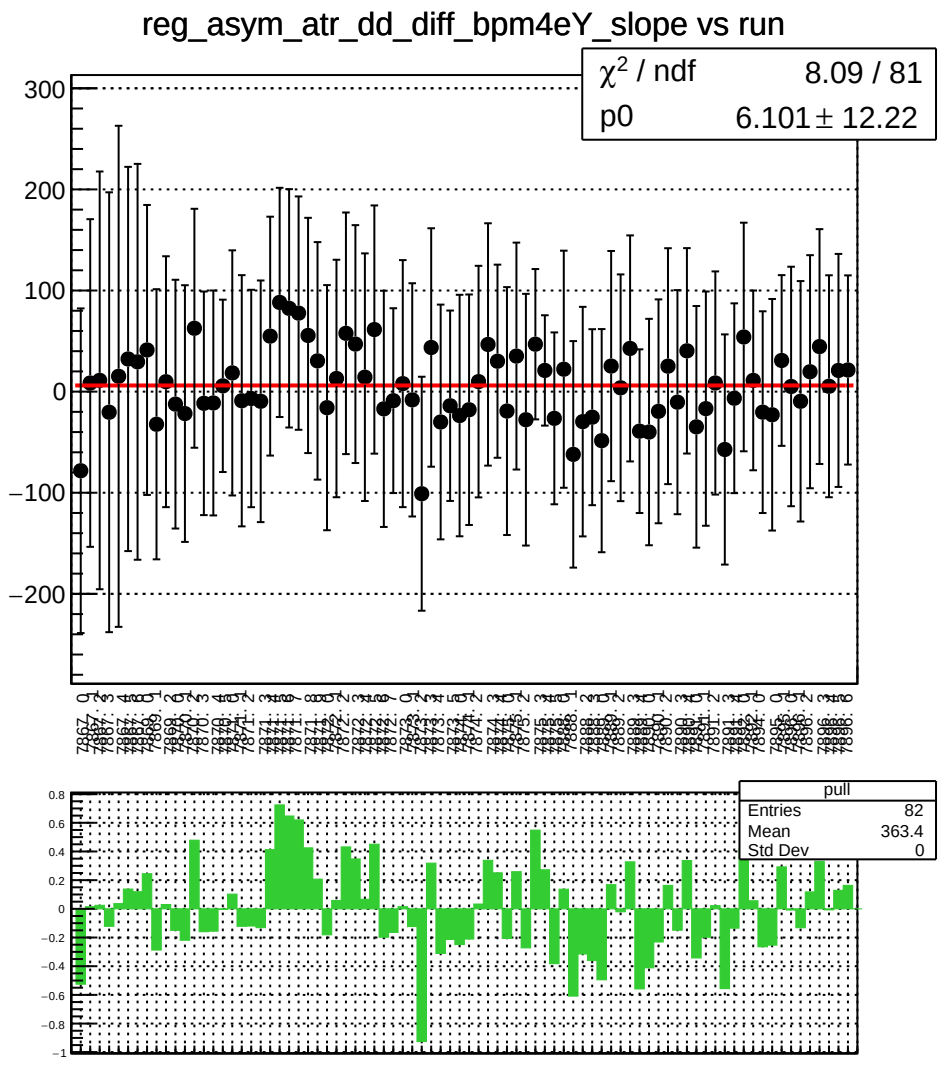

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 390 / 81
p0 −174.8 ± 0.4585
pull
Entries 82
Mean 0.204
Std Dev 0
pull1D
Entries 82
Mean −0.3887
Std Dev 1.81

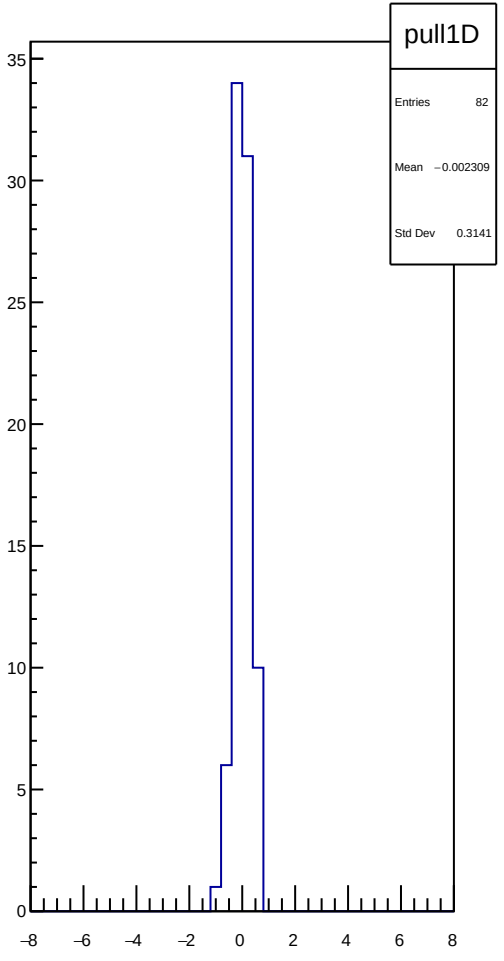

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 137.2 / 81
p0 122.8 ± 9.308
300
200
100
0
−100
pull
Entries 82
Mean 42.7
Std Dev 27.62
pull1D
Entries 82
Mean −0.4633
Std Dev 1.207
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

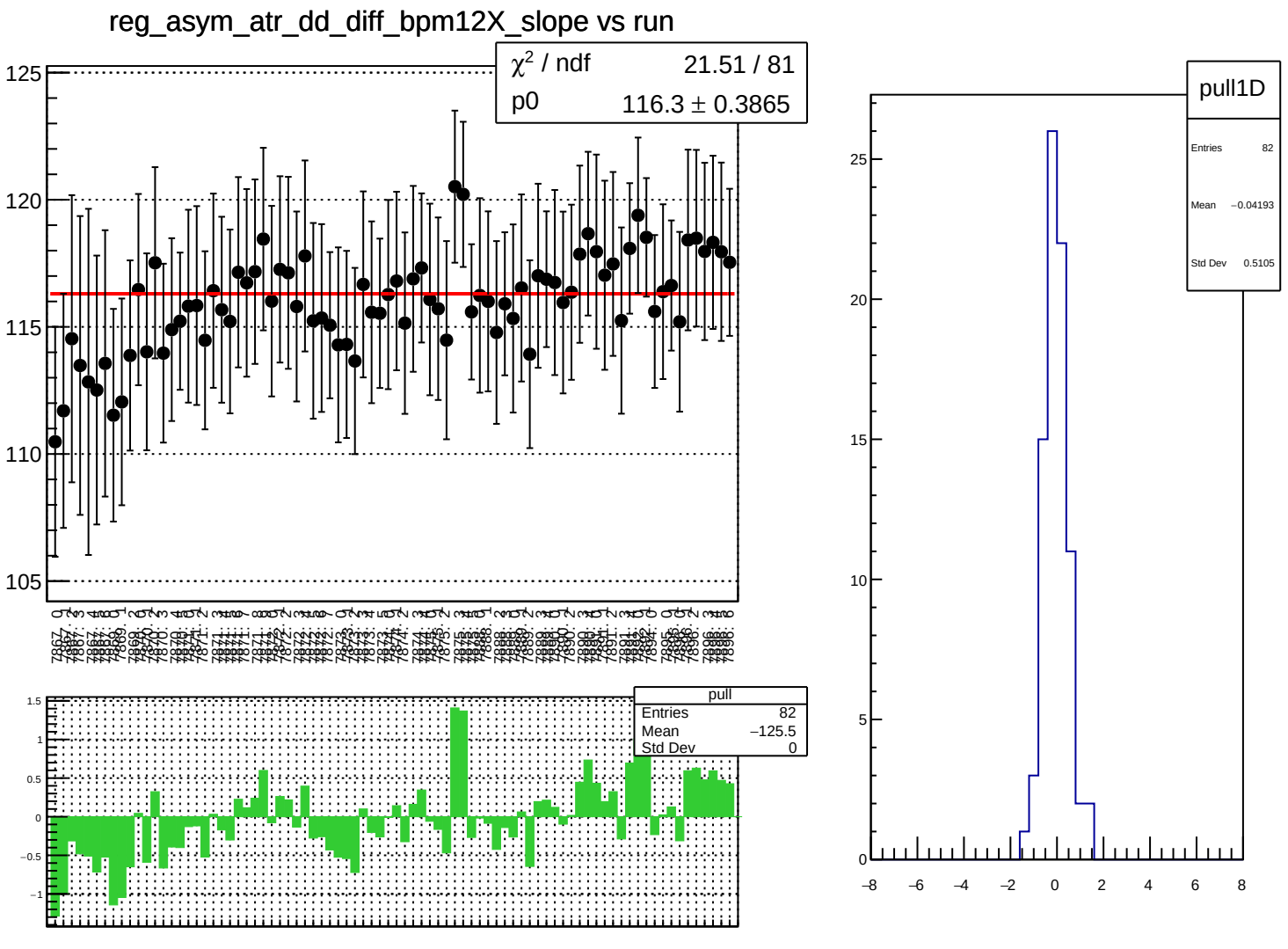

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.681 / 81
p0 −34.52 ± 10.47
200
100
0
−100
−200
pull
Entries 82
Mean 35.68
Std Dev 21.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

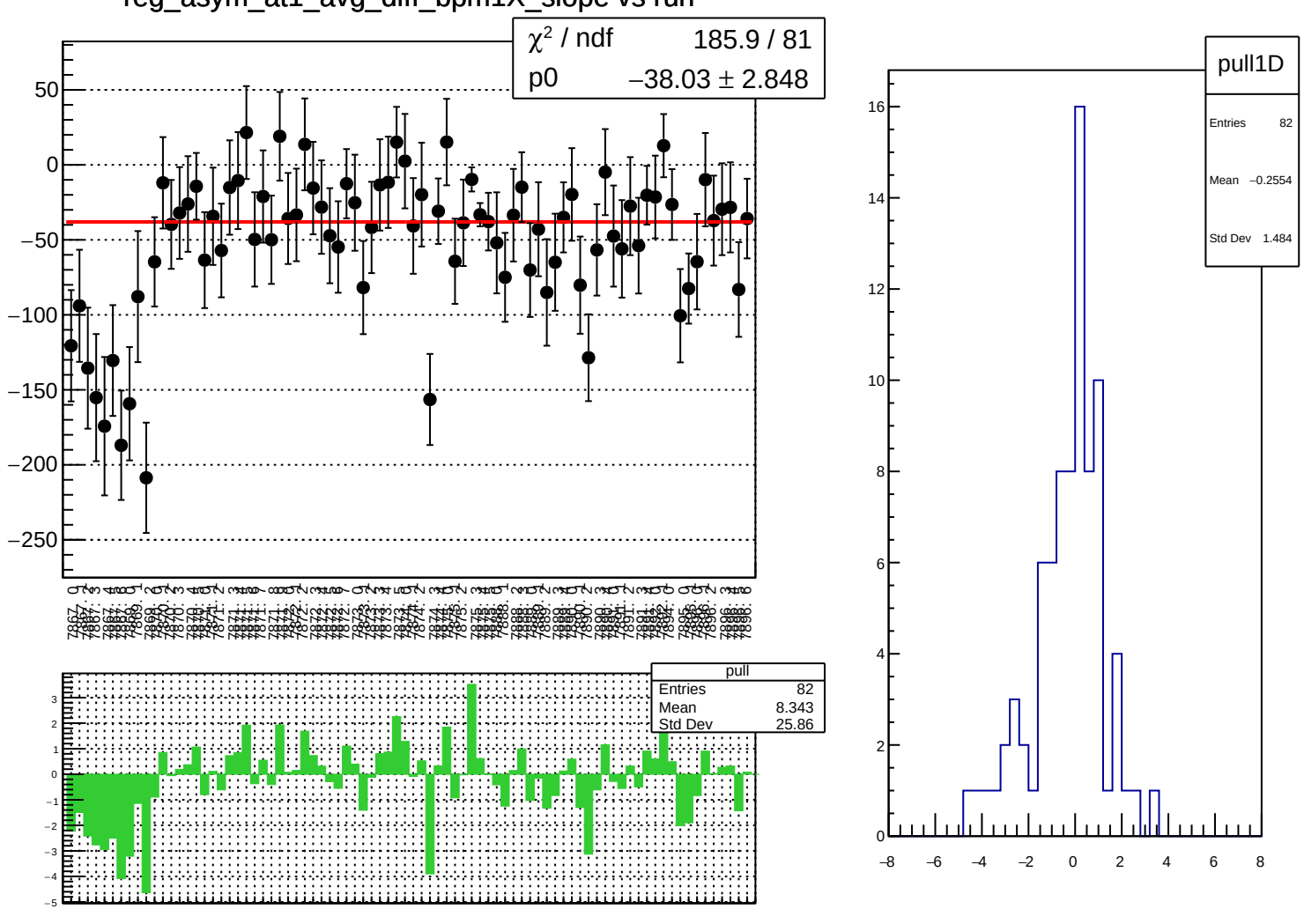

pull1D
Entries 82
Mean 0.01306
Std Dev 0.3251
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

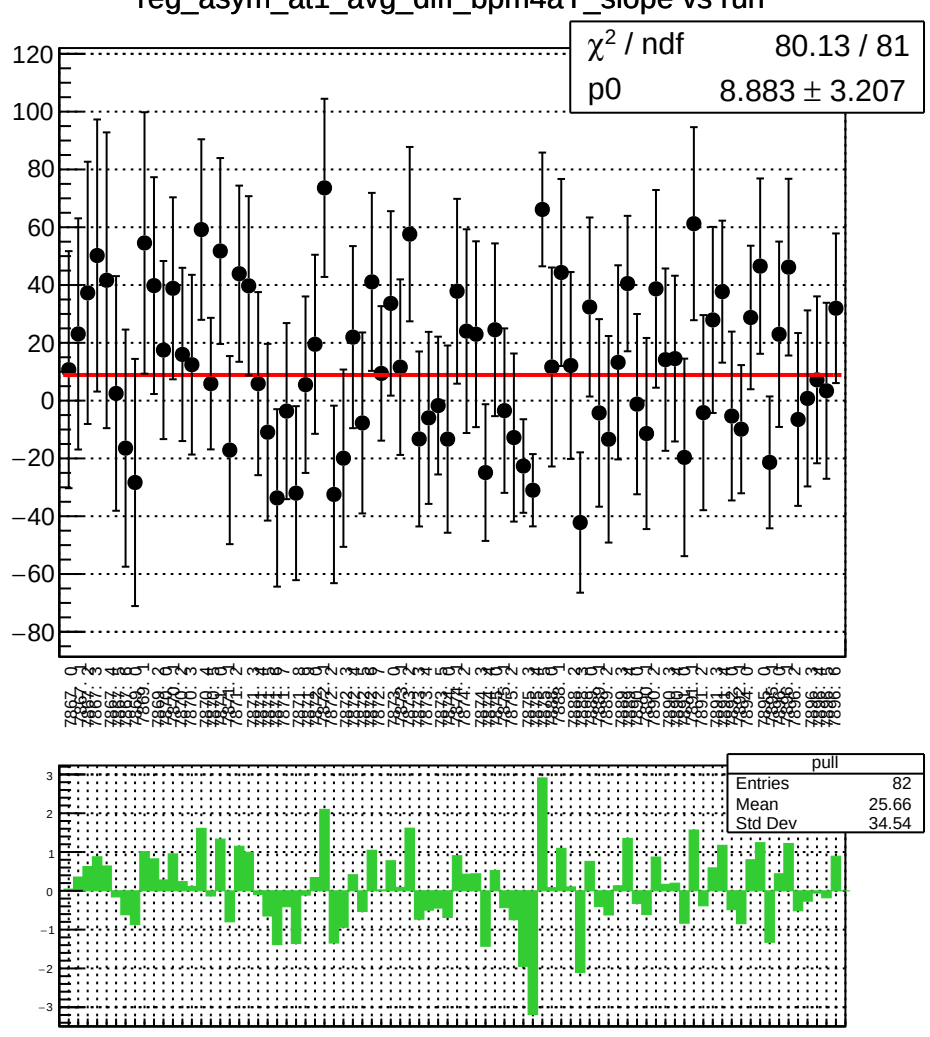

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 174.6 / 81
p0 −205.3 ± 7.795
pull
Entries 82
Mean 43.04
Std Dev 26.99
pull1D
Entries 82
Mean 0.7222
Std Dev 0.8435

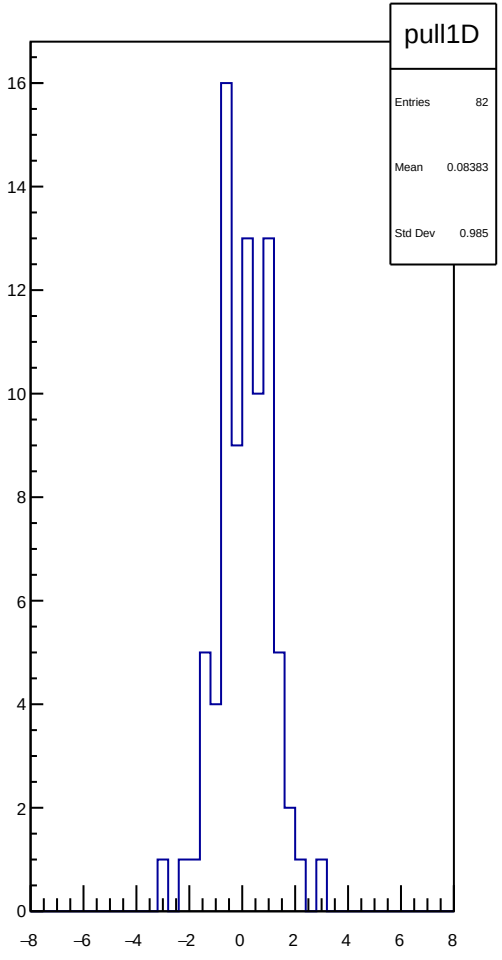

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.09 / 81
p0 6.101 ± 12.22
pull
Entries 82
Mean 363.4
Std Dev 0

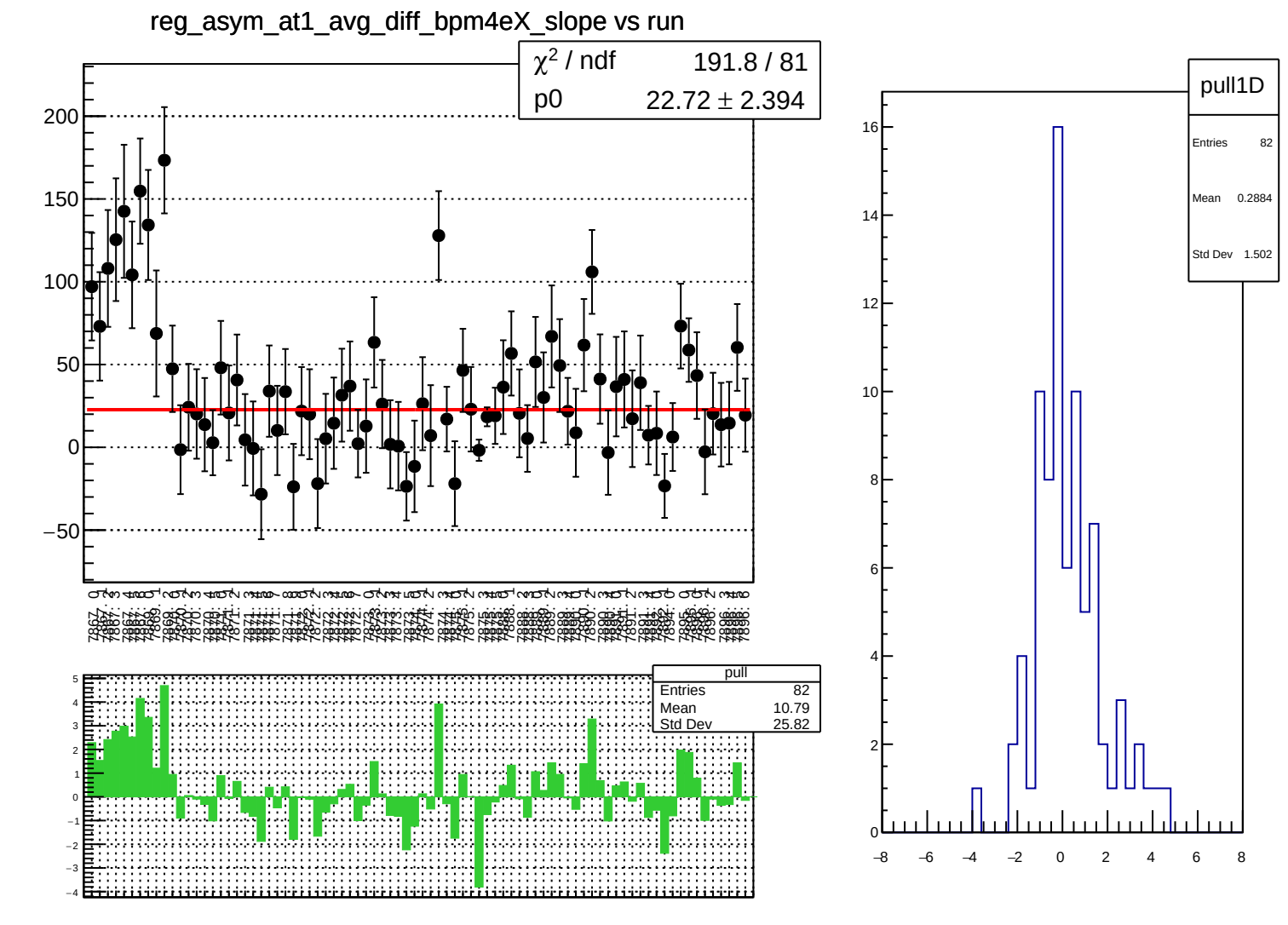

pull1D
Entries 82
Mean −0.002309
Std Dev 0.3141

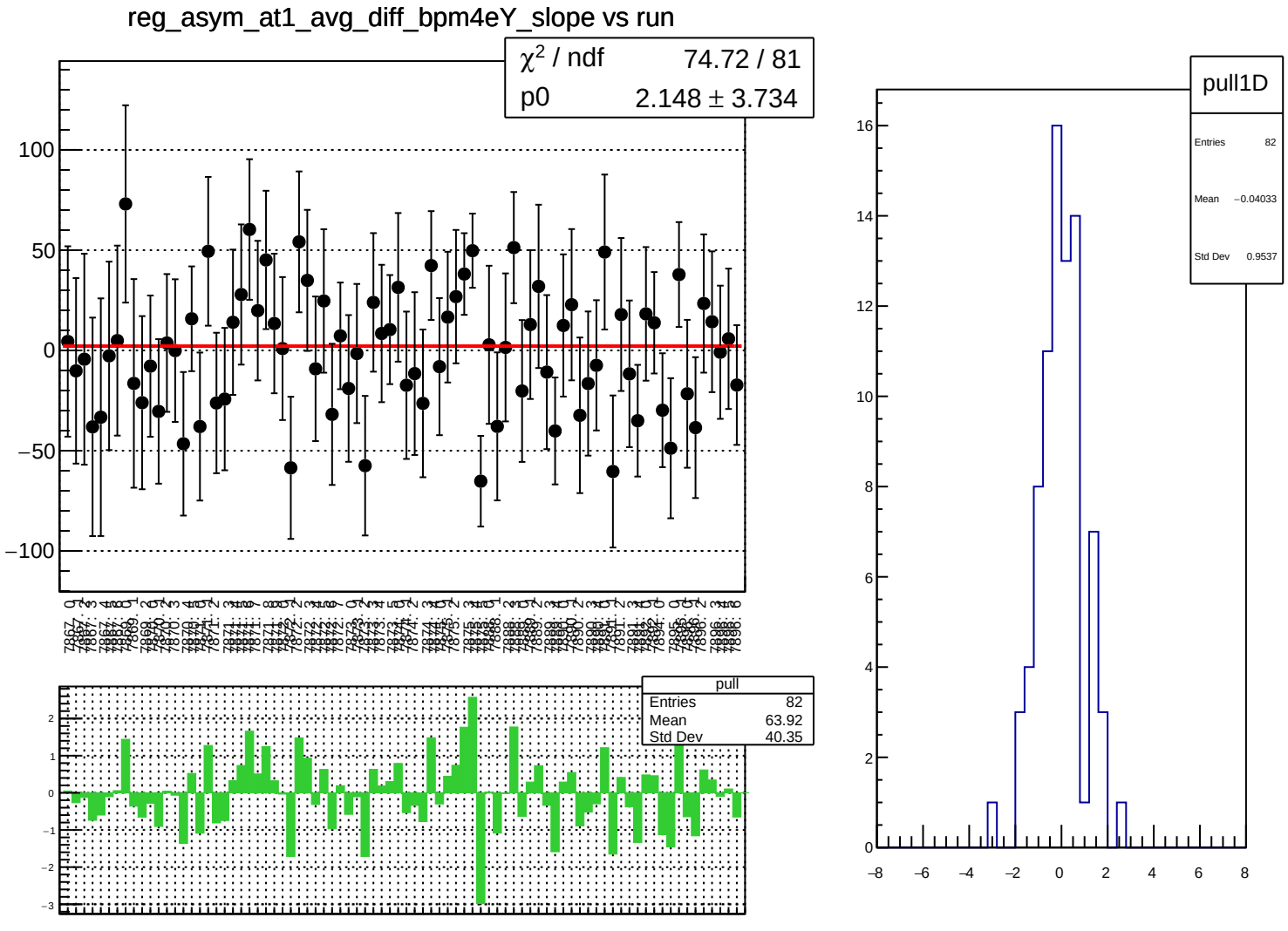

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 21.51 / 81
p0 116.3 ± 0.3865
125
120
115
110
105
pull
Entries 82
Mean −125.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 82
Mean −0.04193
Std Dev 0.5105
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

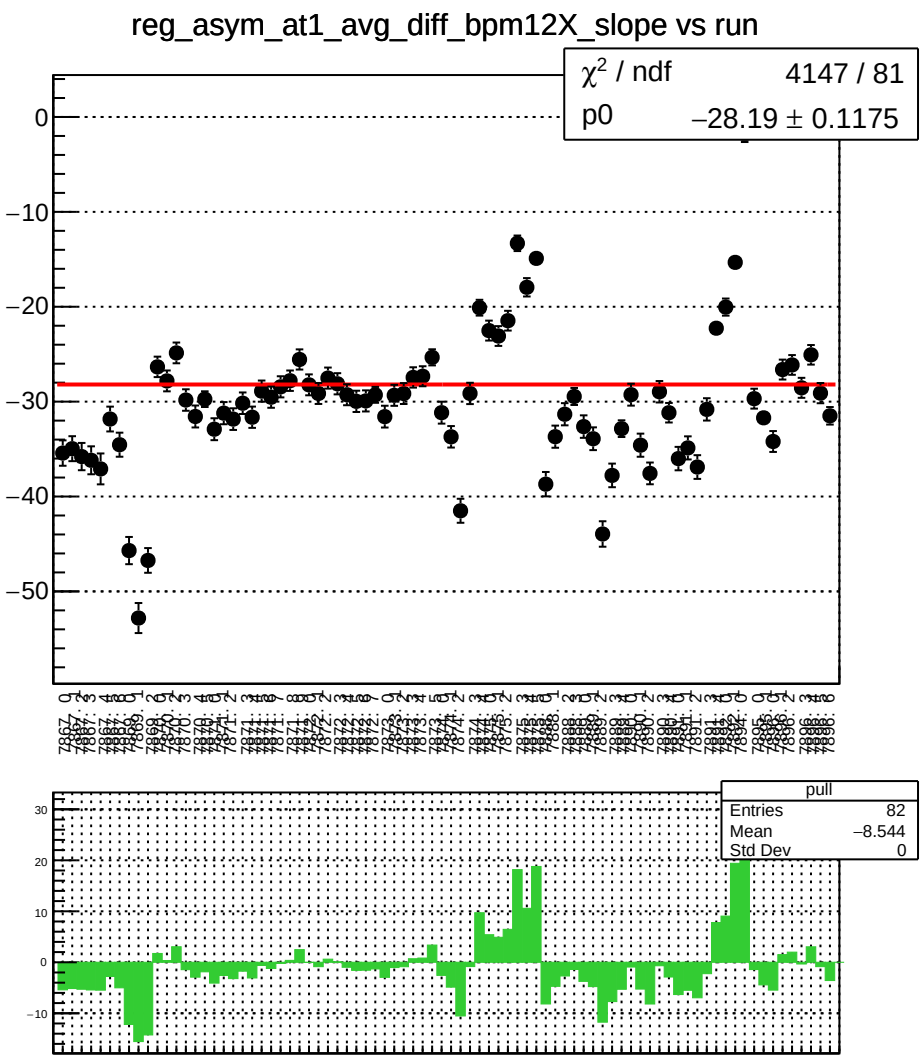

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 185.9 / 81
p0 −38.03 ± 2.848
pull
Entries 82
Mean 8.343
Std Dev 25.86
pull1D
Entries 82
Mean −0.2554
Std Dev 1.484

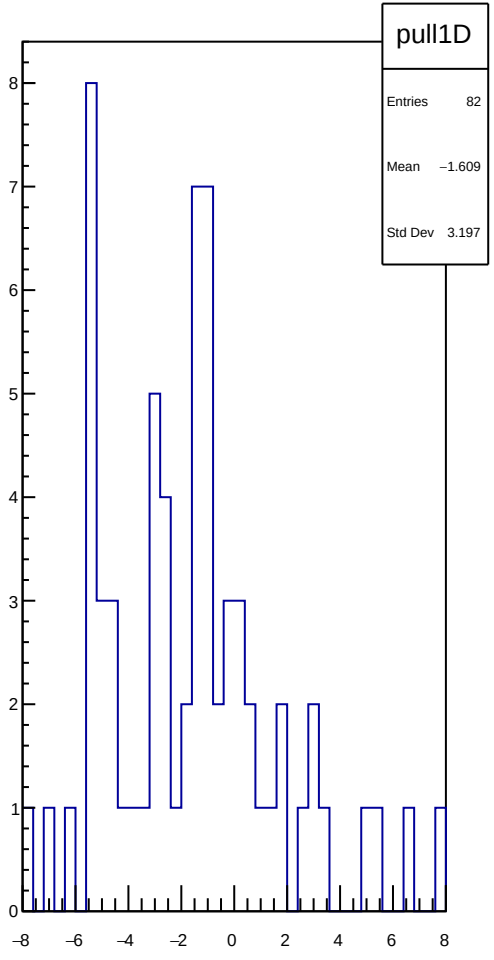

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.13 / 81
p0 8.883 ± 3.207
pull
Entries 82
Mean 25.66
Std Dev 34.54

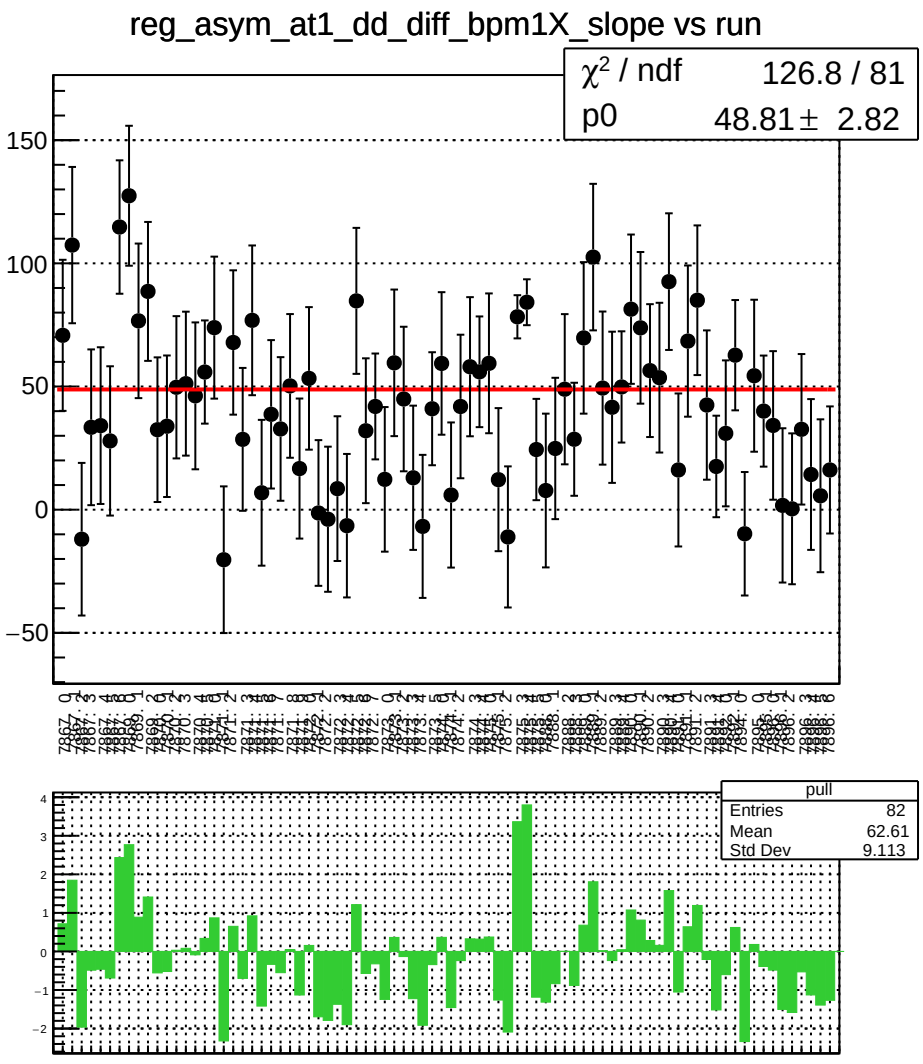

pull1D
Entries 82
Mean 0.08383
Std Dev 0.985

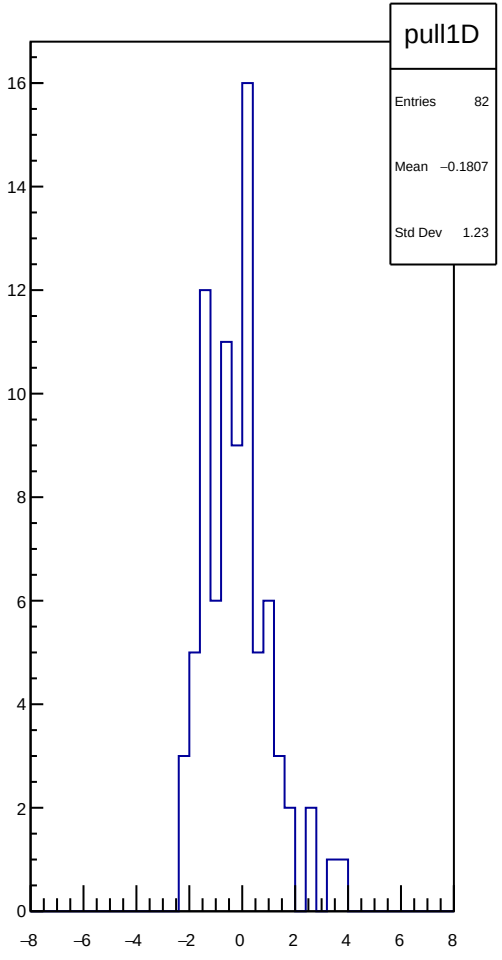

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 191.8 / 81
p0 22.72 ± 2.394
200
150
100
50
0
−50
pull
Entries 82
Mean 10.79
Std Dev 25.82
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 82
Mean 0.2884
Std Dev 1.502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

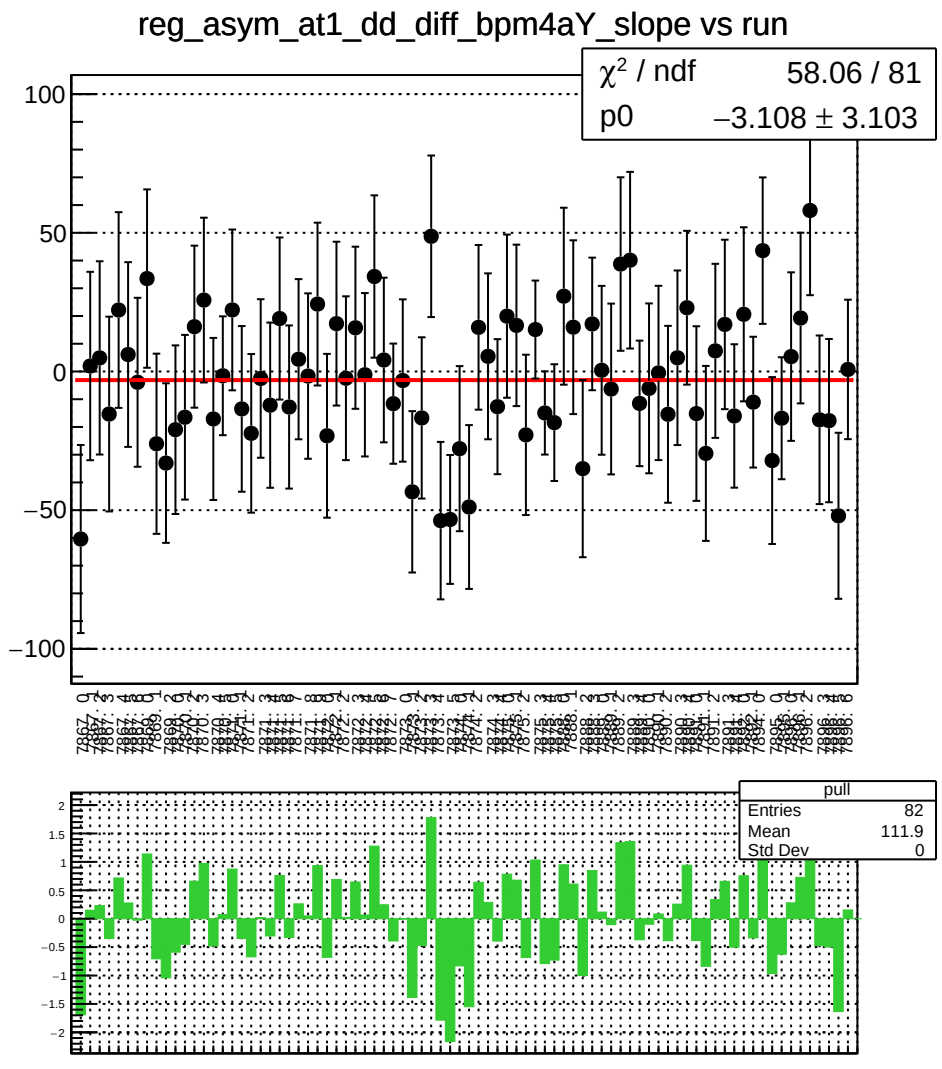

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 74.72 / 81
p0 2.148 ± 3.734
100
50
0
−50
−100
pull
Entries 82
Mean 63.92
Std Dev 40.35
pull1D
Entries 82
Mean −0.04033
Std Dev 0.9537

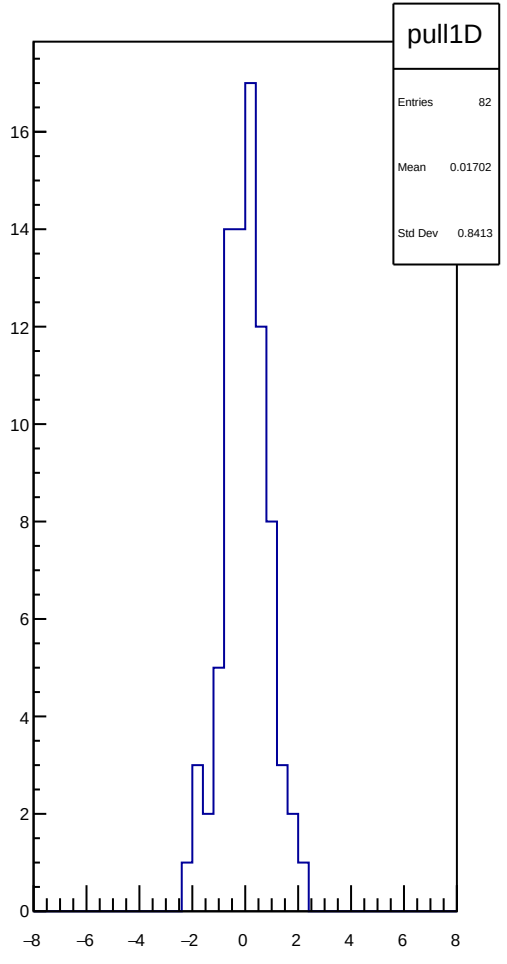

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 4147 / 81
p0 −28.19 ± 0.1175
pull
Entries 82
Mean −8.544
Std Dev 0

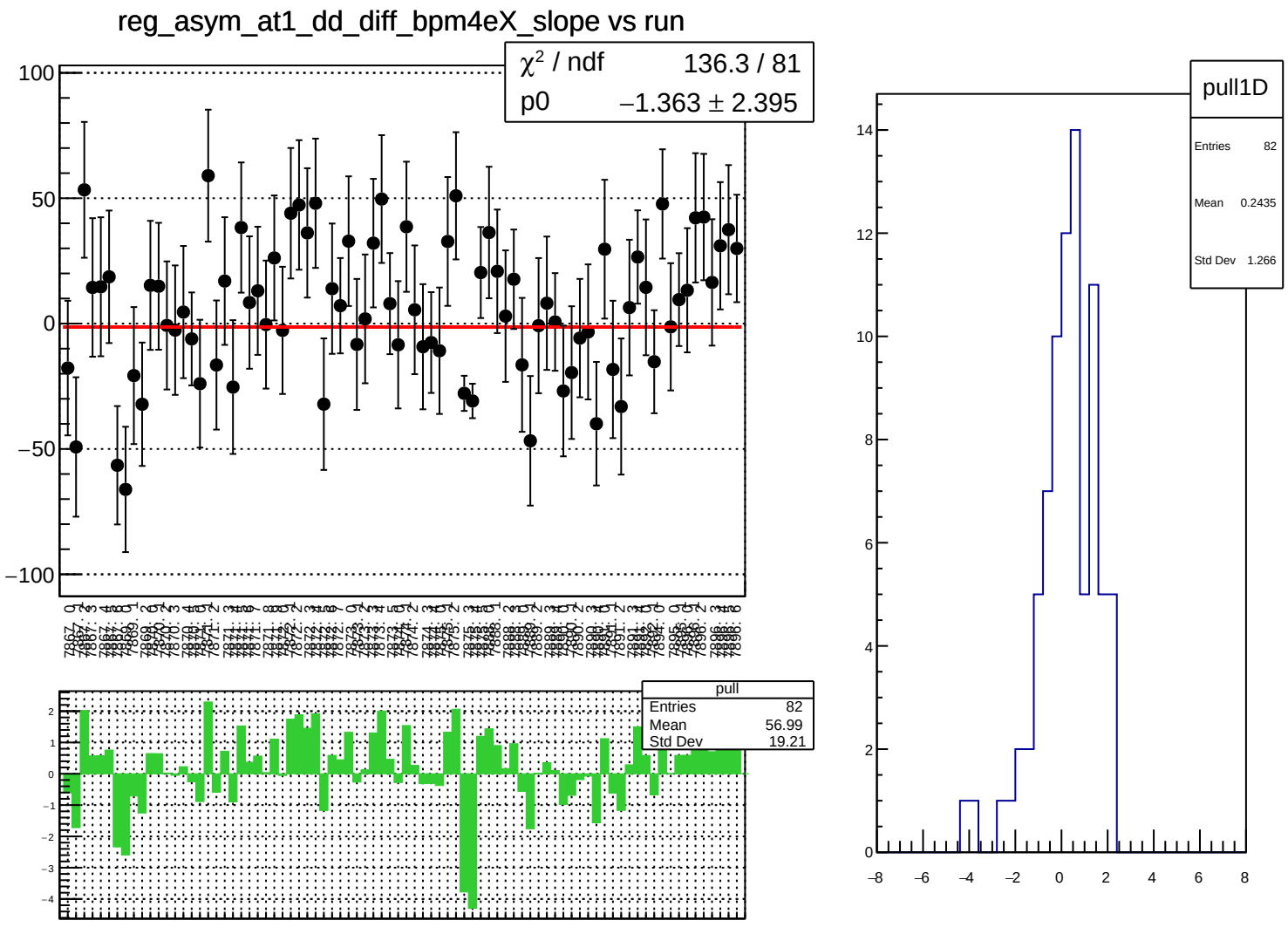

pull1D
Entries 82
Mean −1.609
Std Dev 3.197

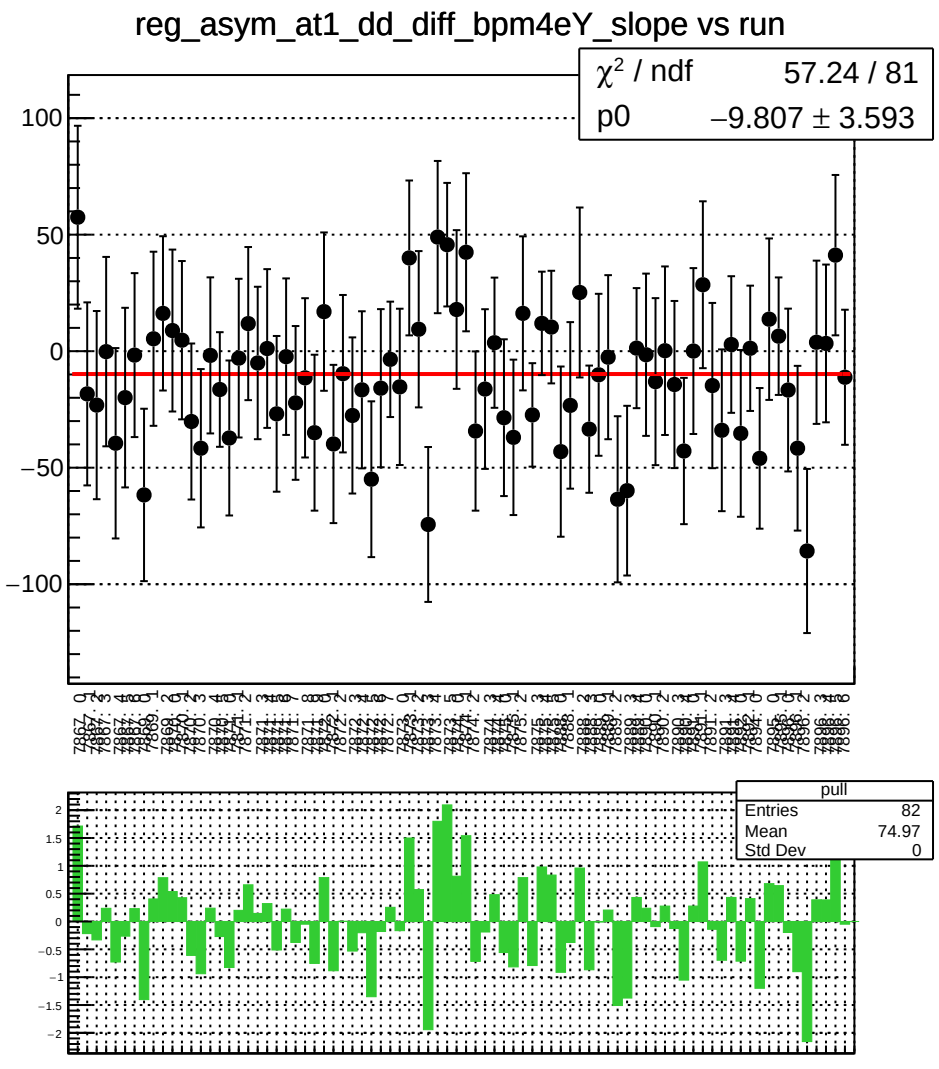

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 126.8 / 81
p0 48.81 ± 2.82
150
100
50
0
−50
pull
Entries 82
Mean 62.61
Std Dev 9.113
4
3
2
1
0
−1
−2

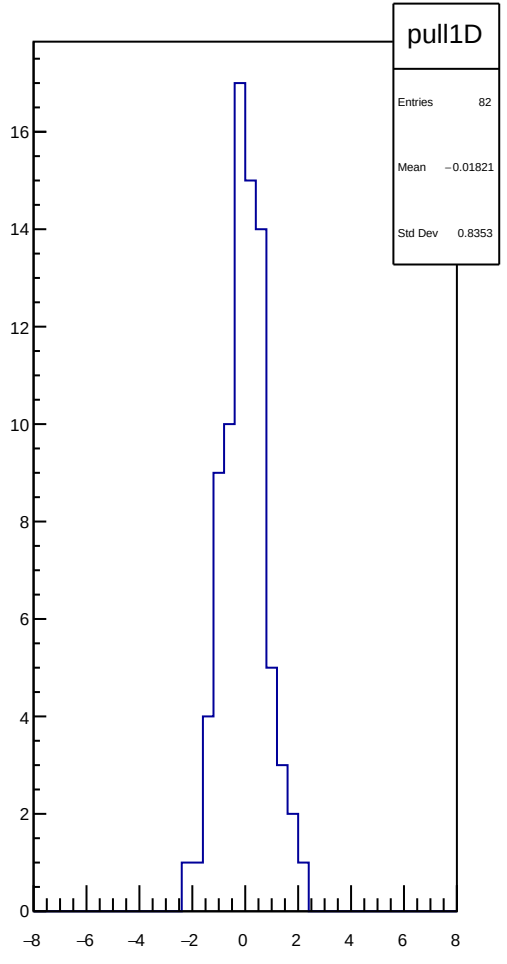

pull1D
Entries 82
Mean −0.1807
Std Dev 1.23
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

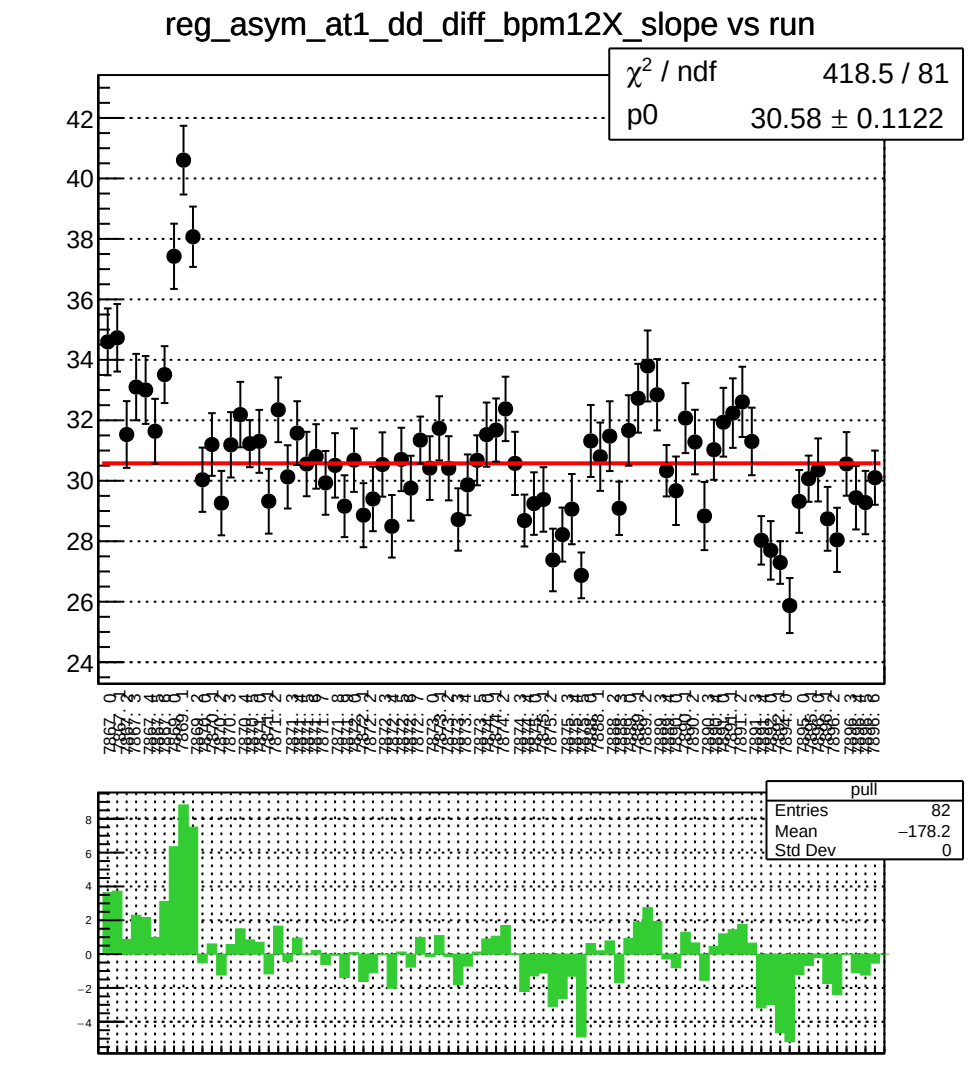

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.06 / 81
p0 −3.108 ± 3.103
100
50
0
−50
−100
pull
Entries 82
Mean 111.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

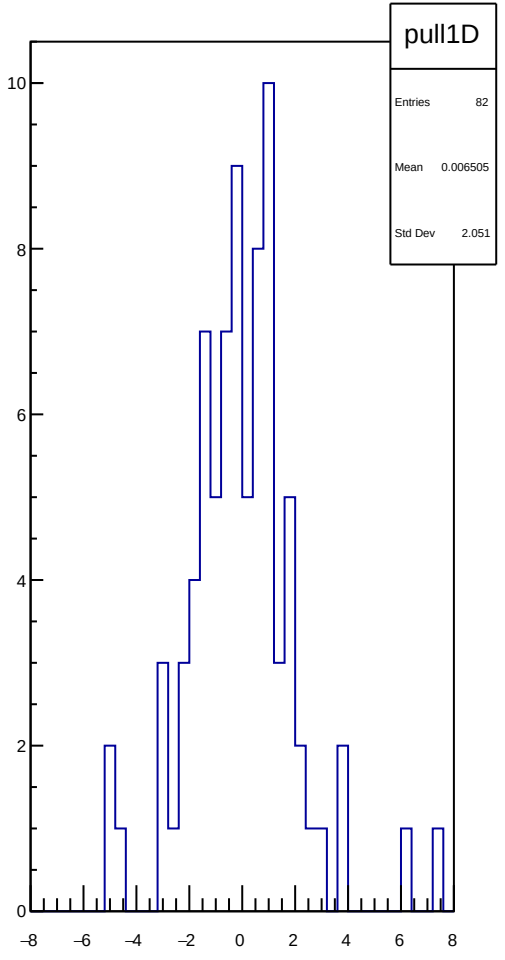

pull1D
Entries 82
Mean 0.01702
Std Dev 0.8413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

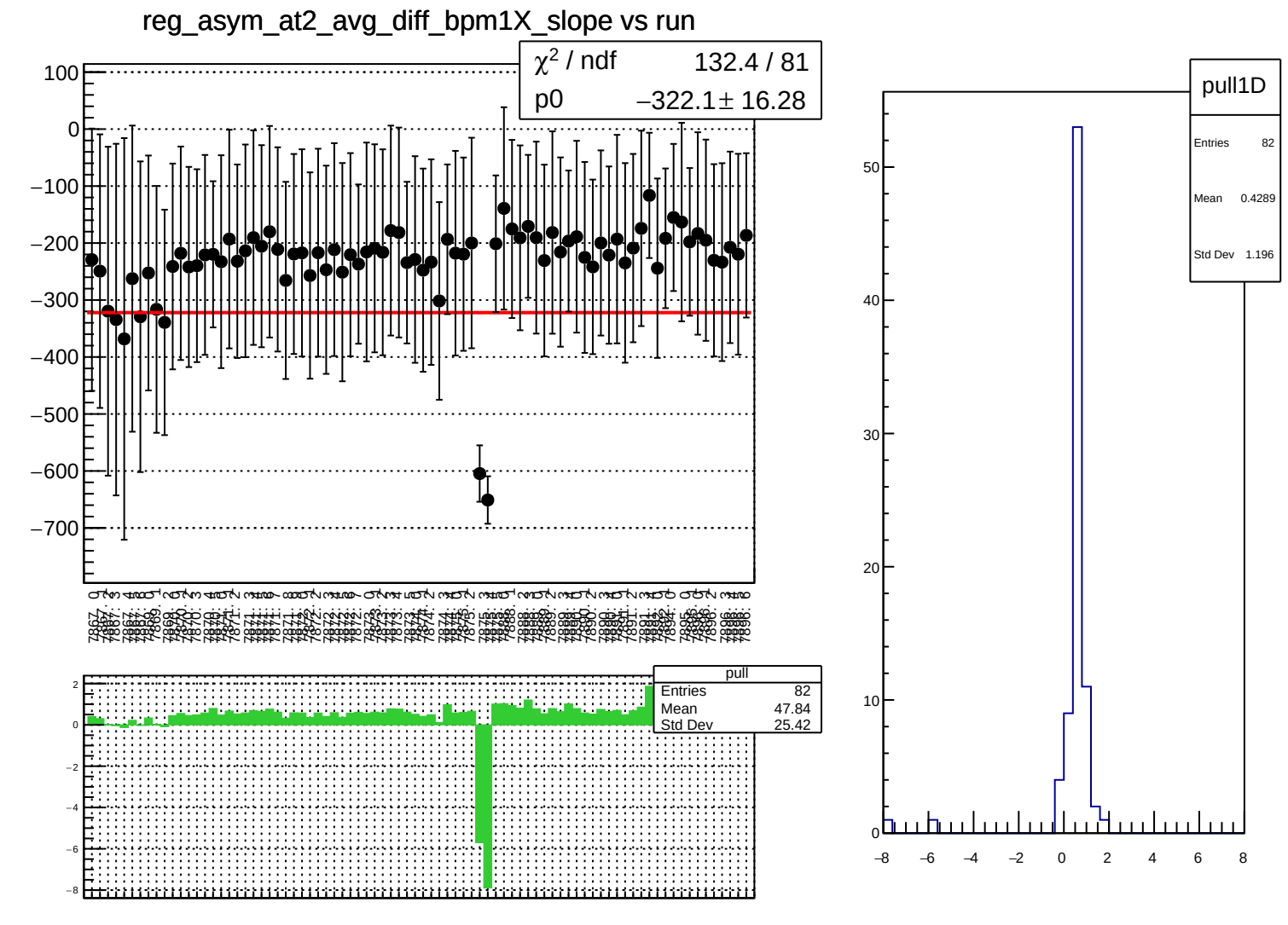

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 136.3 / 81
p0 −1.363 ± 2.395
pull
Entries 82
Mean 56.99
Std Dev 19.21
pull1D
Entries 82
Mean 0.2435
Std Dev 1.266

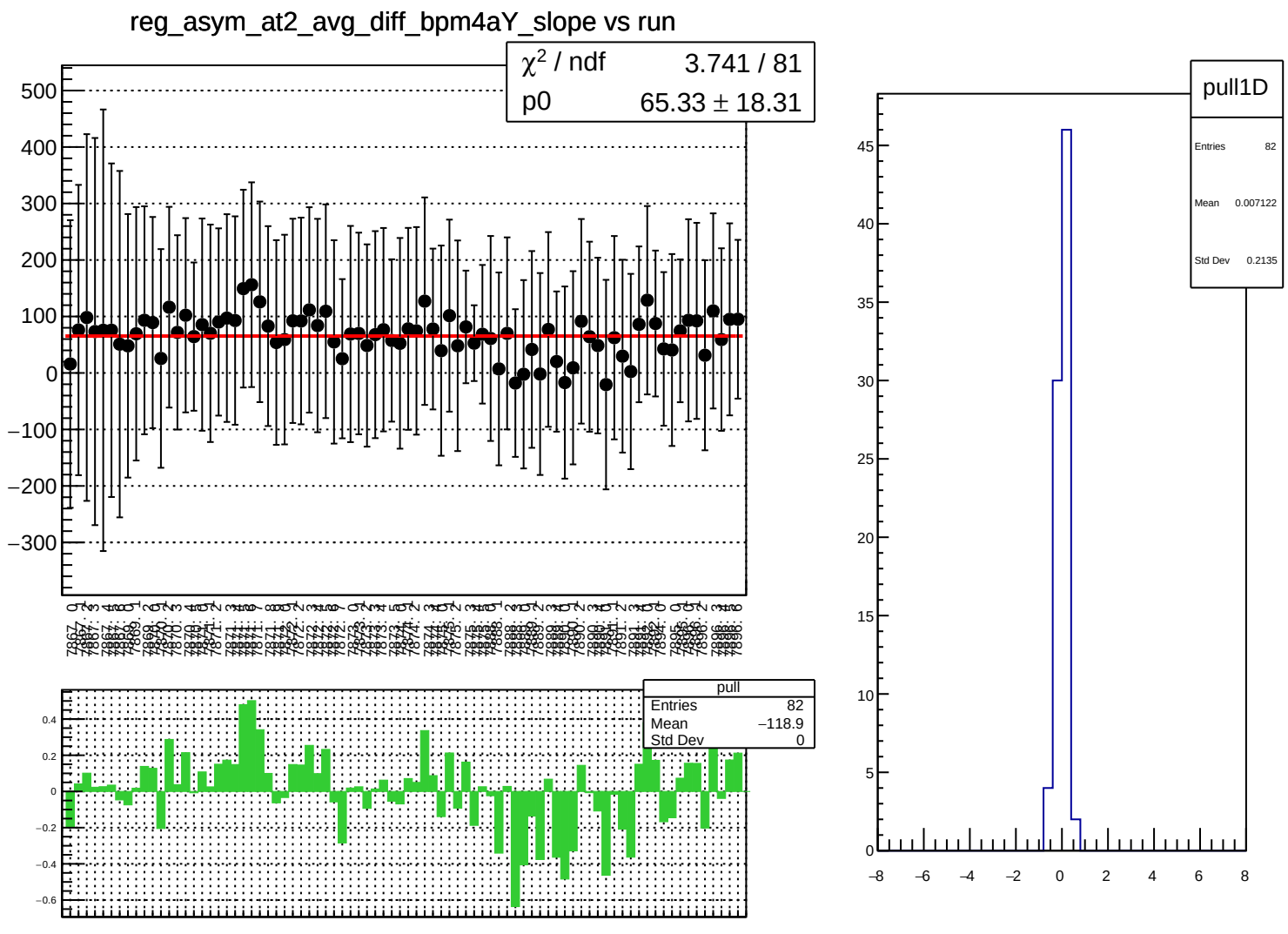

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.24 / 81
p0 −9.807 ± 3.593
100
50
0
−50
−100
pull
Entries 82
Mean 74.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

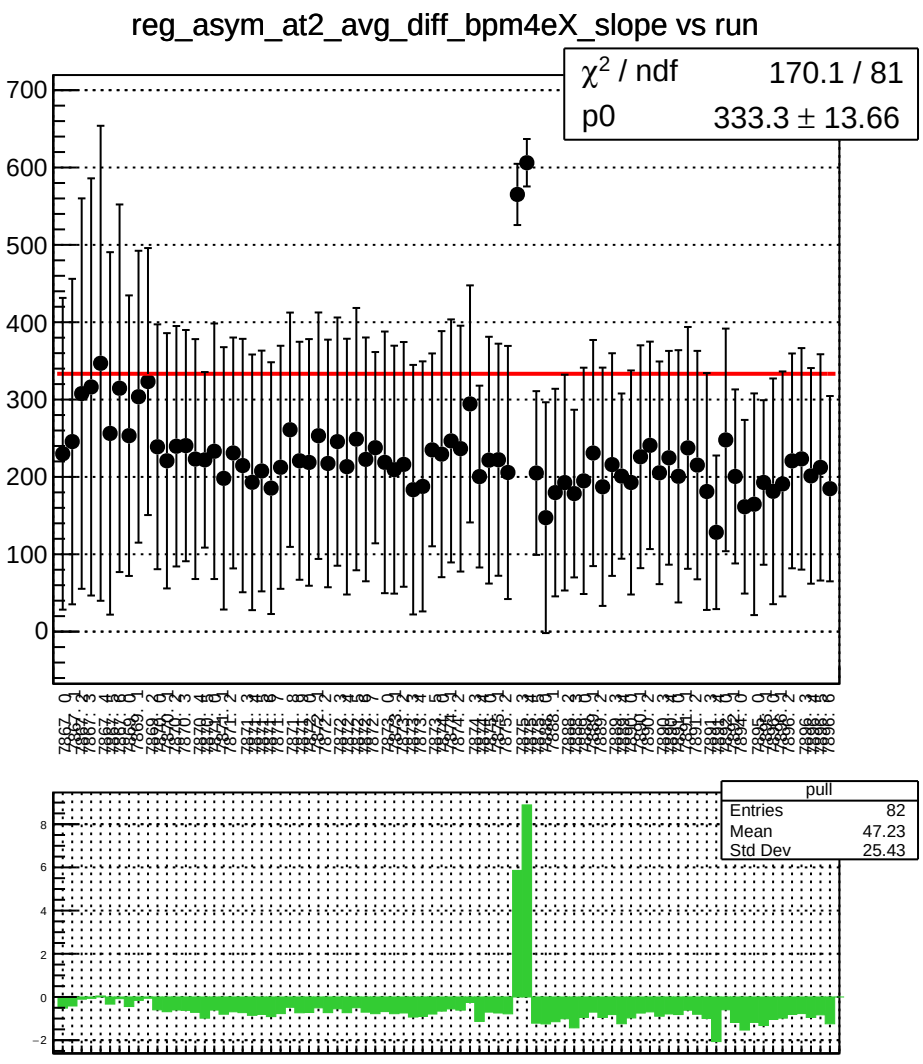

pull1D
Entries 82
Mean −0.01821
Std Dev 0.8353
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

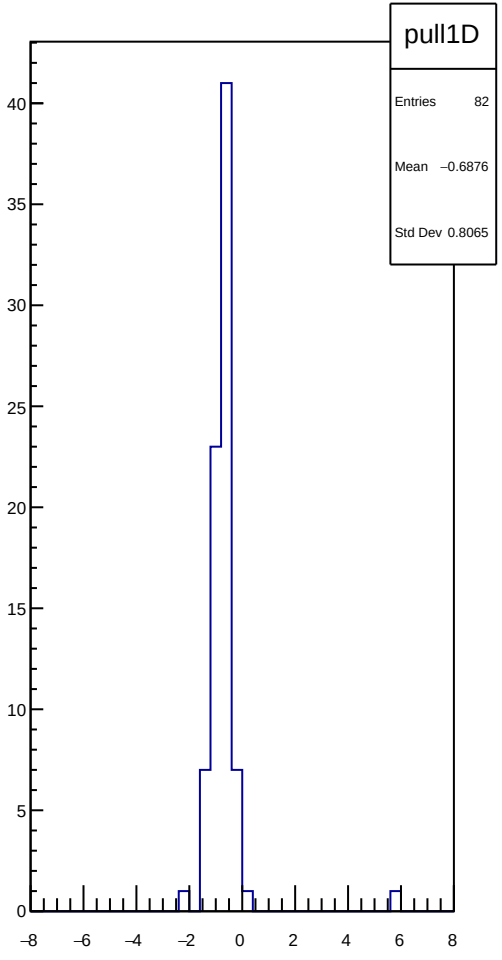

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 418.5 / 81
p0 30.58 ± 0.1122
pull
Entries 82
Mean −178.2
Std Dev 0

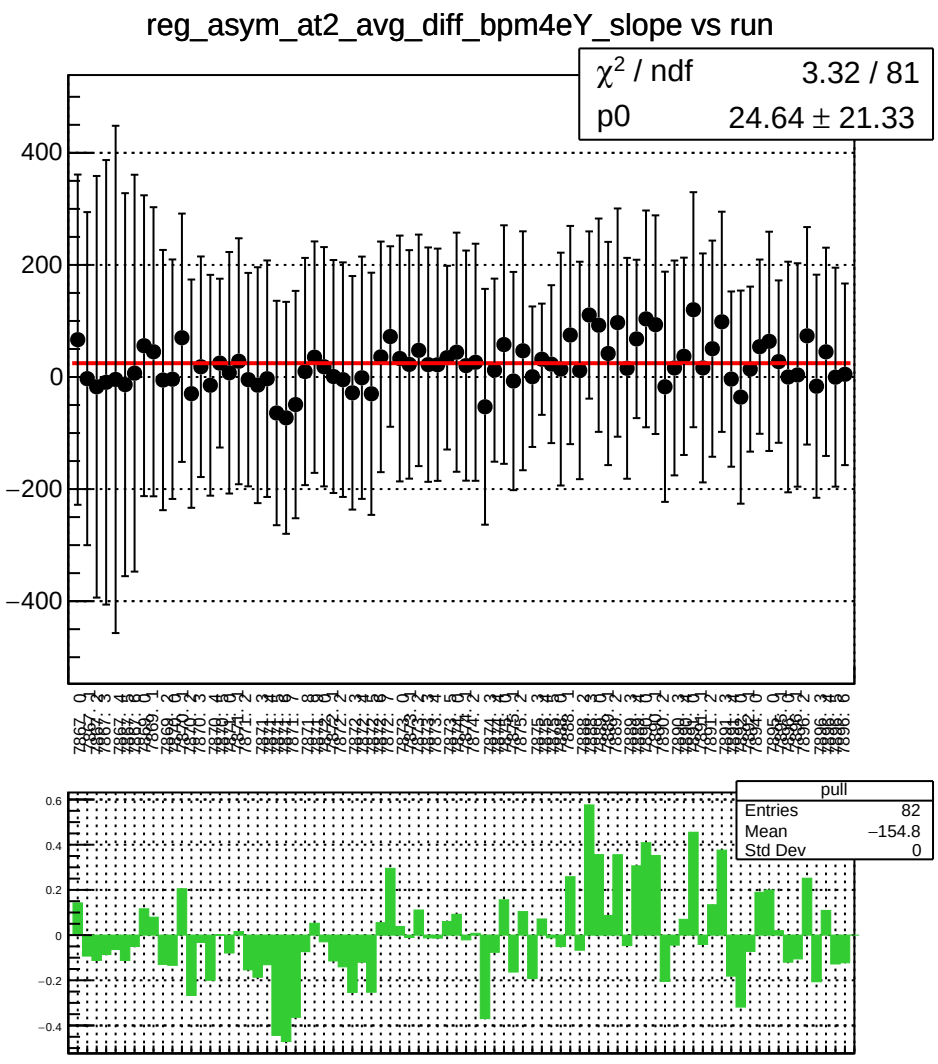

pull1D
Entries 82
Mean 0.006505
Std Dev 2.051

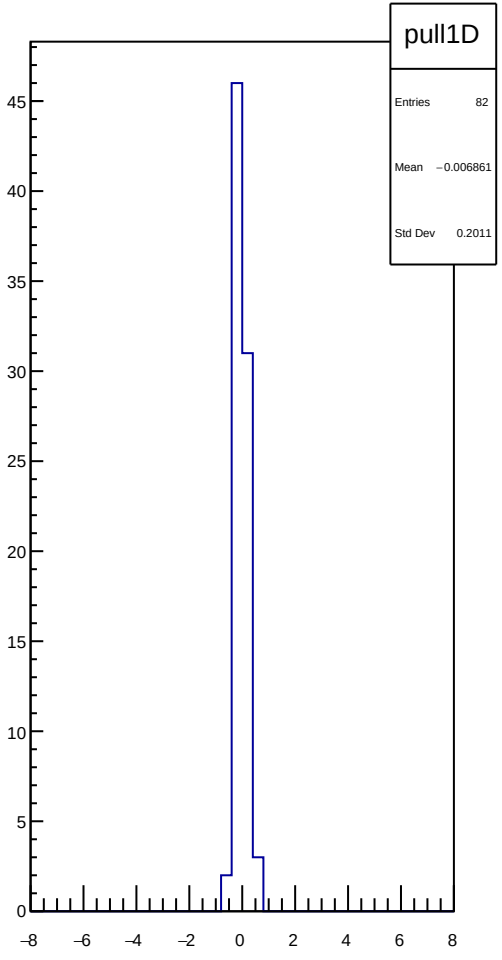

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 132.4 / 81
p0 −322.1± 16.28
pull
Entries 82
Mean 47.84
Std Dev 25.42
pull1D
Entries 82
Mean 0.4289
Std Dev 1.196

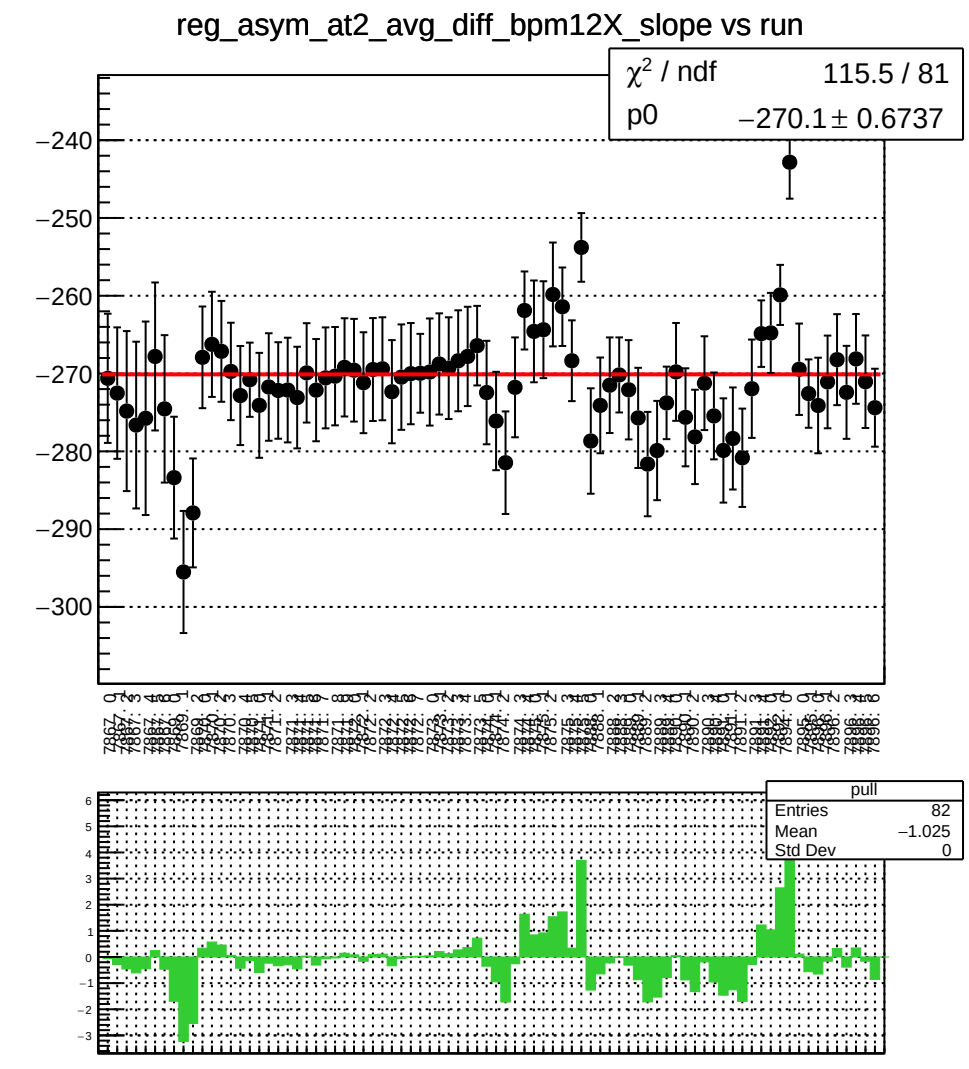

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.741 / 81
p0 65.33 ± 18.31
pull
Entries 82
Mean −118.9
Std Dev 0
pull1D
Entries 82
Mean 0.007122
Std Dev 0.2135

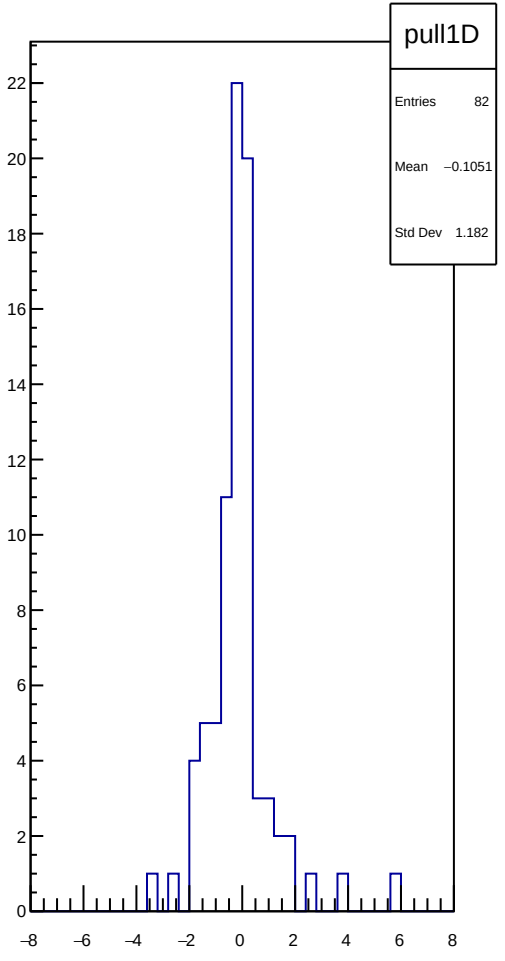

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 170.1 / 81
p0 333.3 ± 13.66
pull
Entries 82
Mean 47.23
Std Dev 25.43

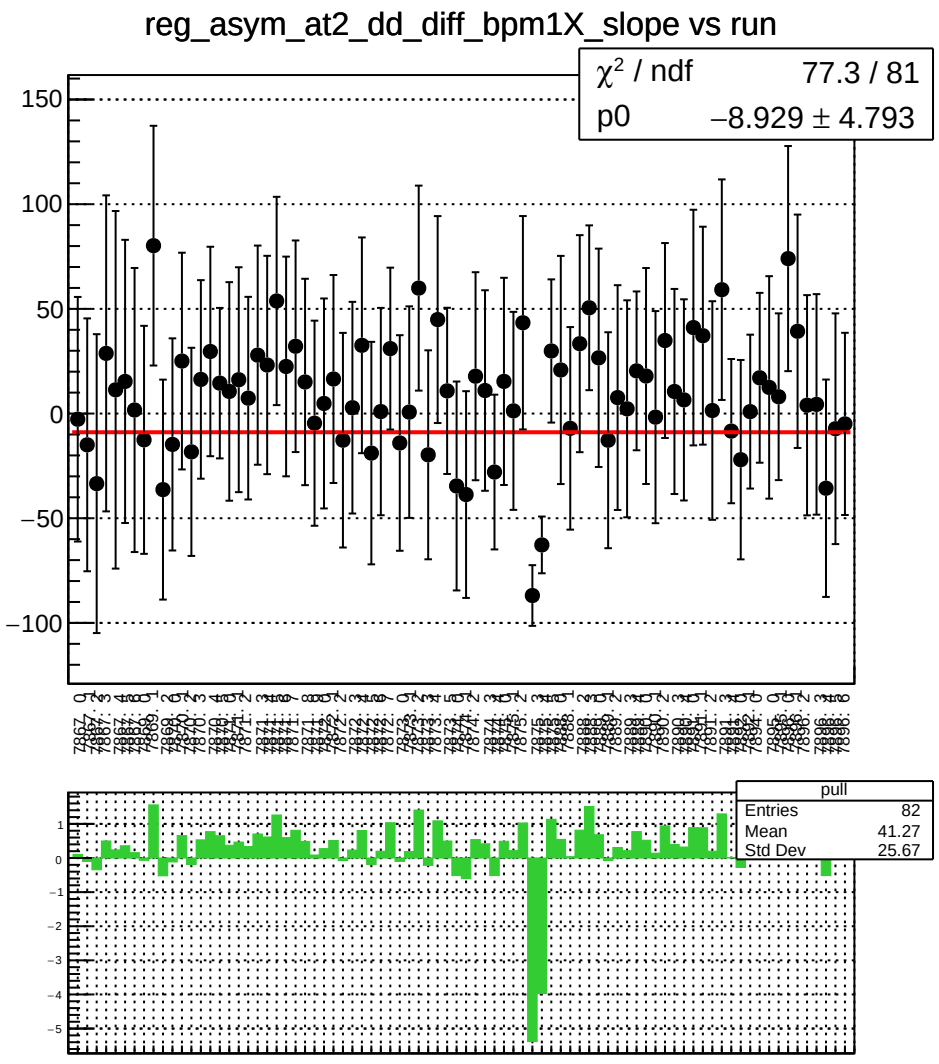

pull1D
Entries 82
Mean −0.6876
Std Dev 0.8065

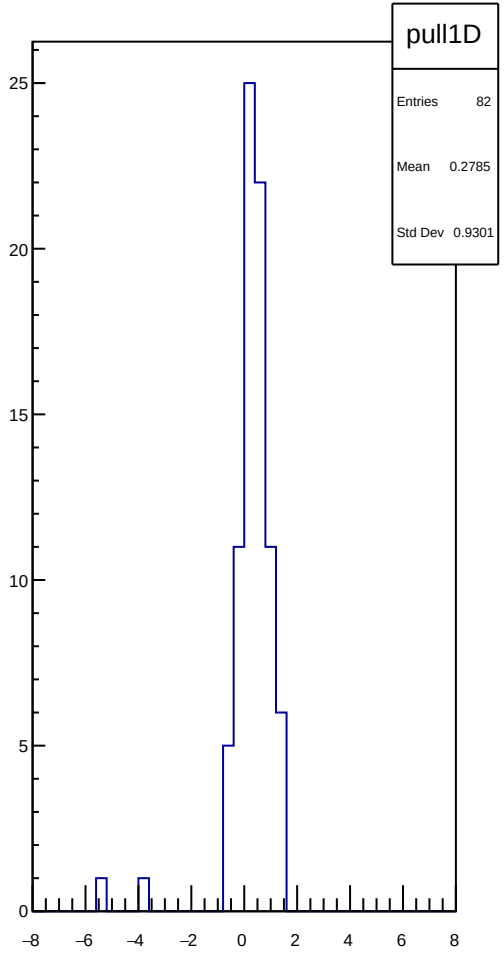

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.32 / 81
p0 24.64 ± 21.33
400
200
0
−200
−400
pull
Entries 82
Mean −154.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

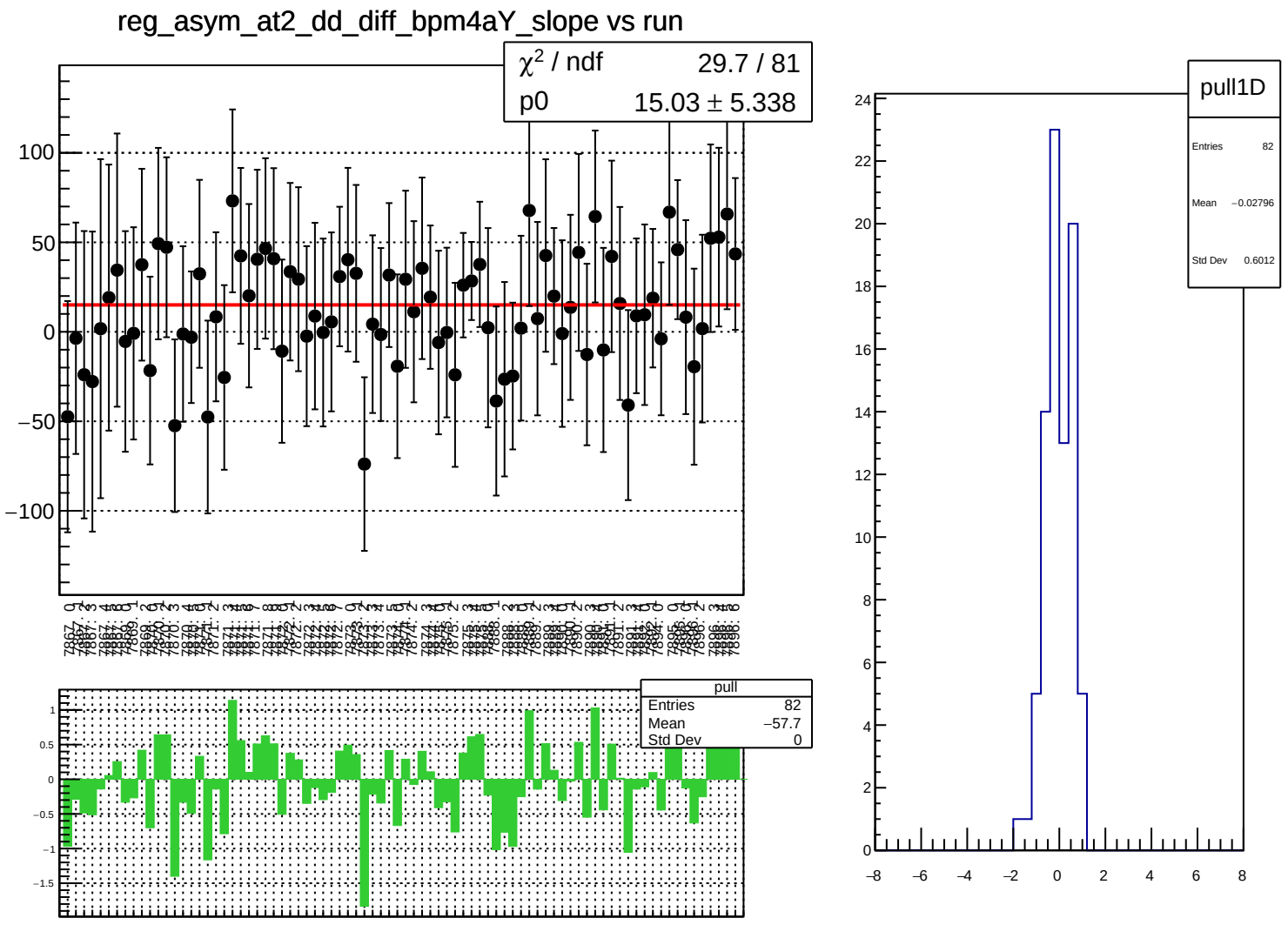

pull1D
Entries 82
Mean −0.006861
Std Dev 0.2011
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

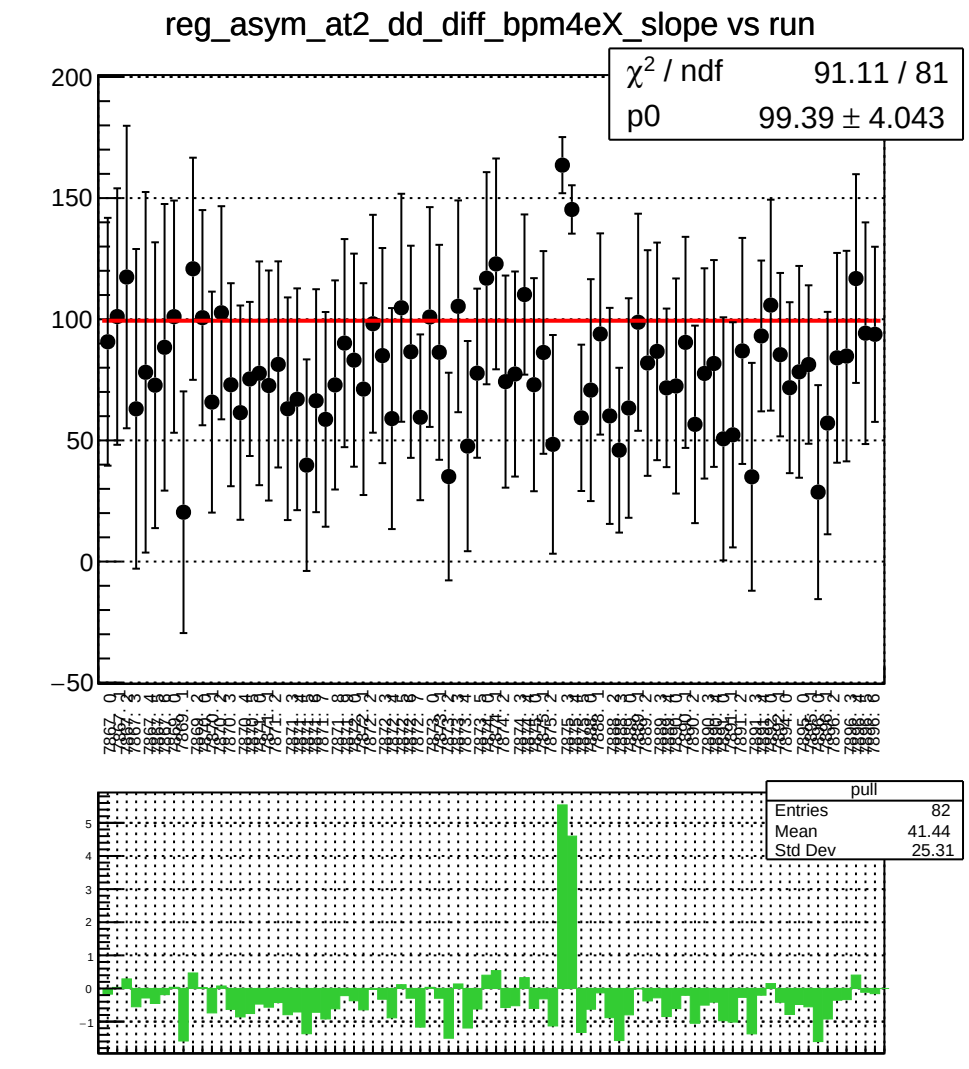

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 115.5 / 81
p0 −270.1 ± 0.6737
pull
Entries 82
Mean −1.025
Std Dev 0

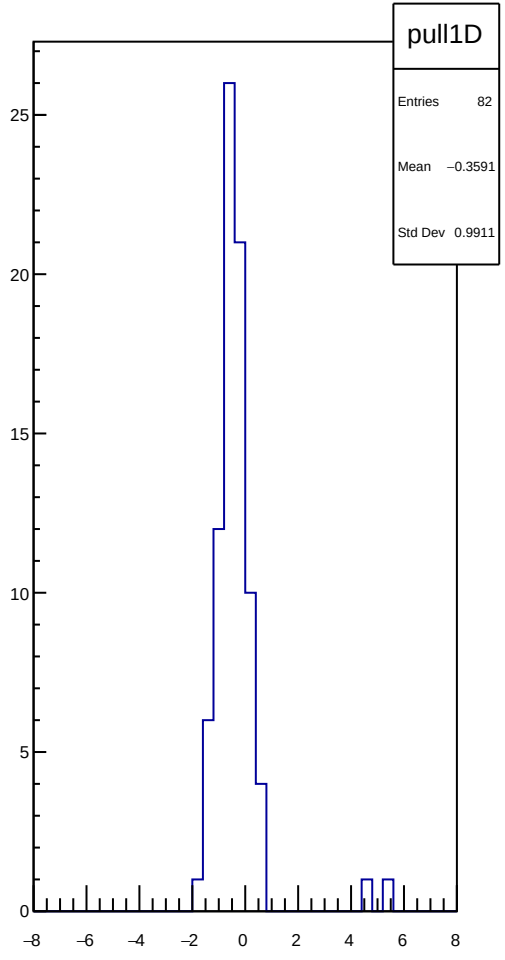

pull1D
Entries 82
Mean −0.1051
Std Dev 1.182

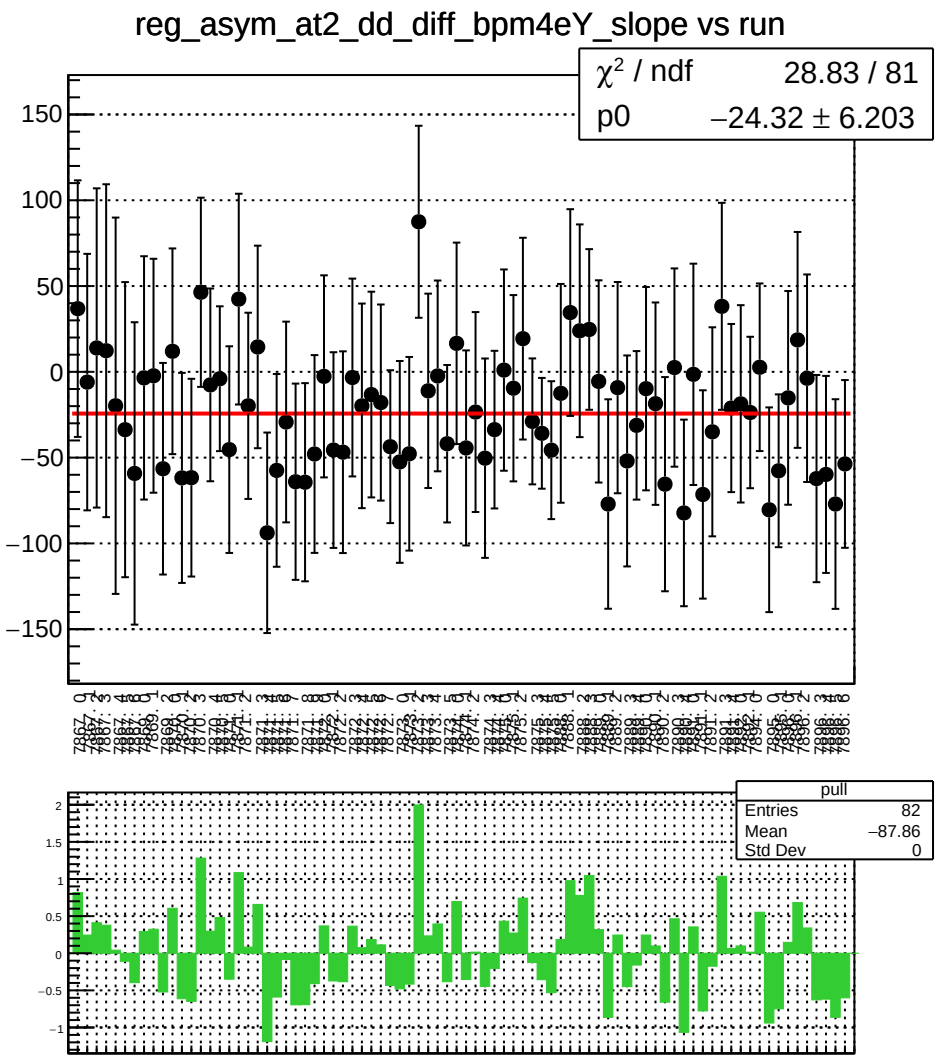

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 77.3 / 81
p0 −8.929 ± 4.793
150
100
50
0
−50
−100
pull
Entries 82
Mean 41.27
Std Dev 25.67
1
0
−1
−2
−3
−4
−5

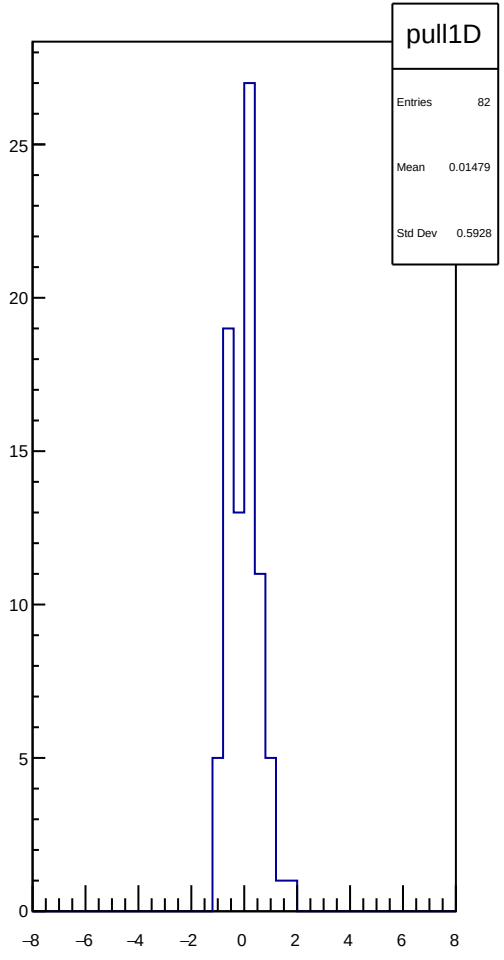

pull1D
Entries 82
Mean 0.2785
Std Dev 0.9301
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

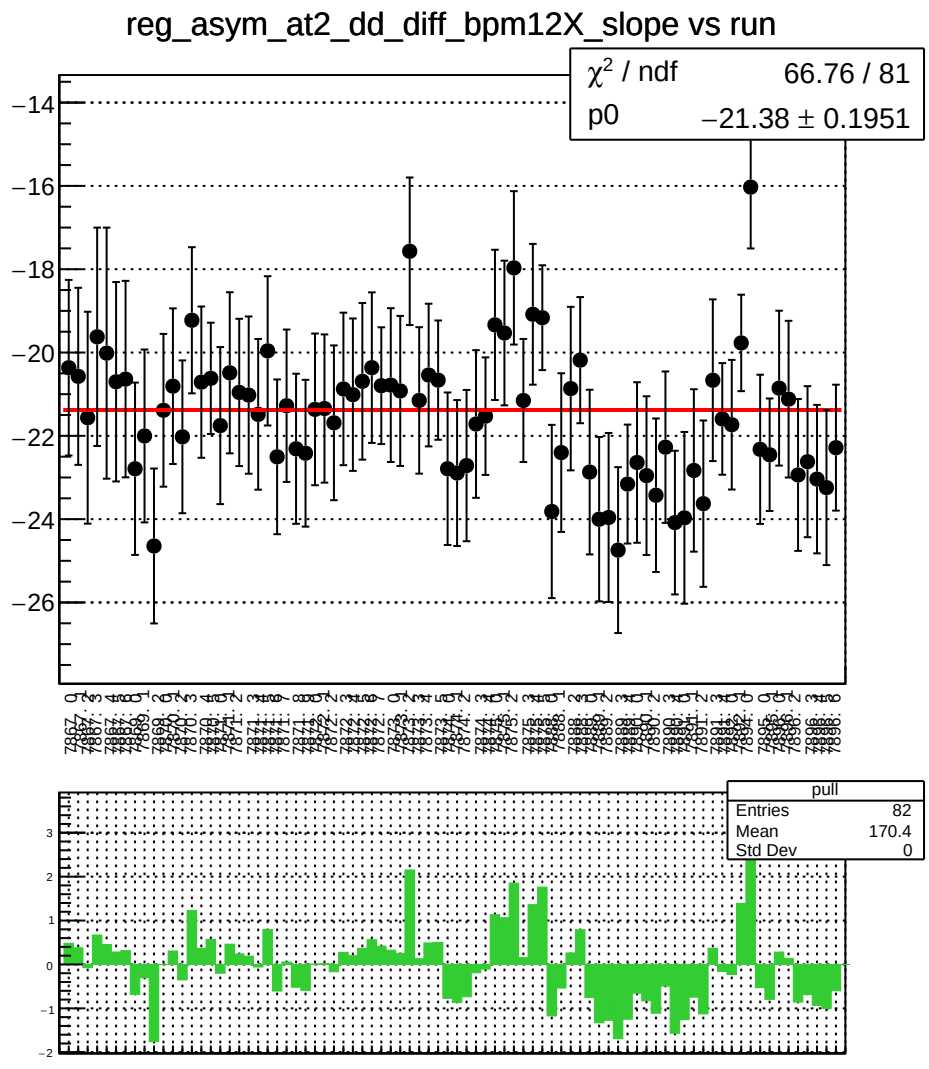

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.7 / 81
p0 15.03 ± 5.338
pull
Entries 82
Mean −57.7
Std Dev 0
pull1D
Entries 82
Mean −0.02796
Std Dev 0.6012

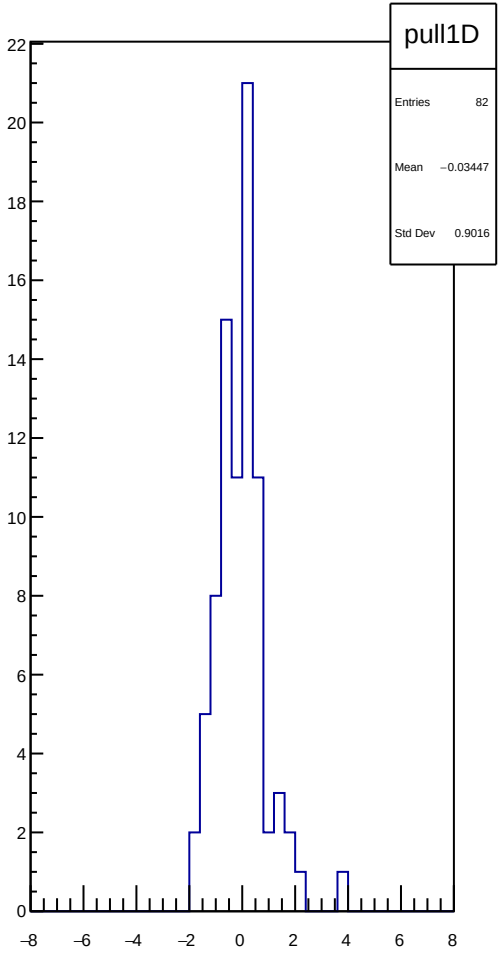

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.11 / 81
p0 99.39 ± 4.043
pull
Entries 82
Mean 41.44
Std Dev 25.31

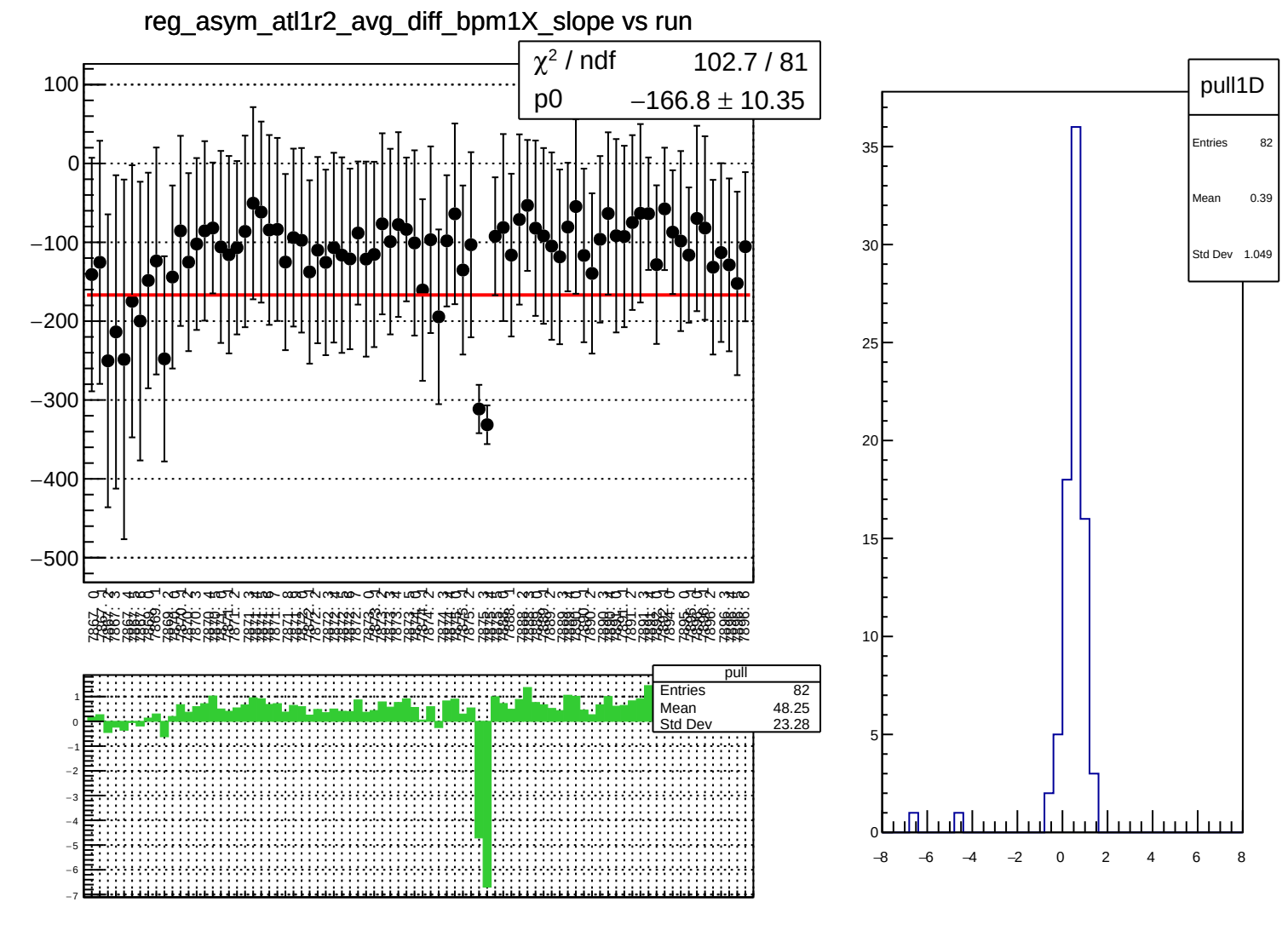

pull1D
Entries 82
Mean −0.3591
Std Dev 0.9911

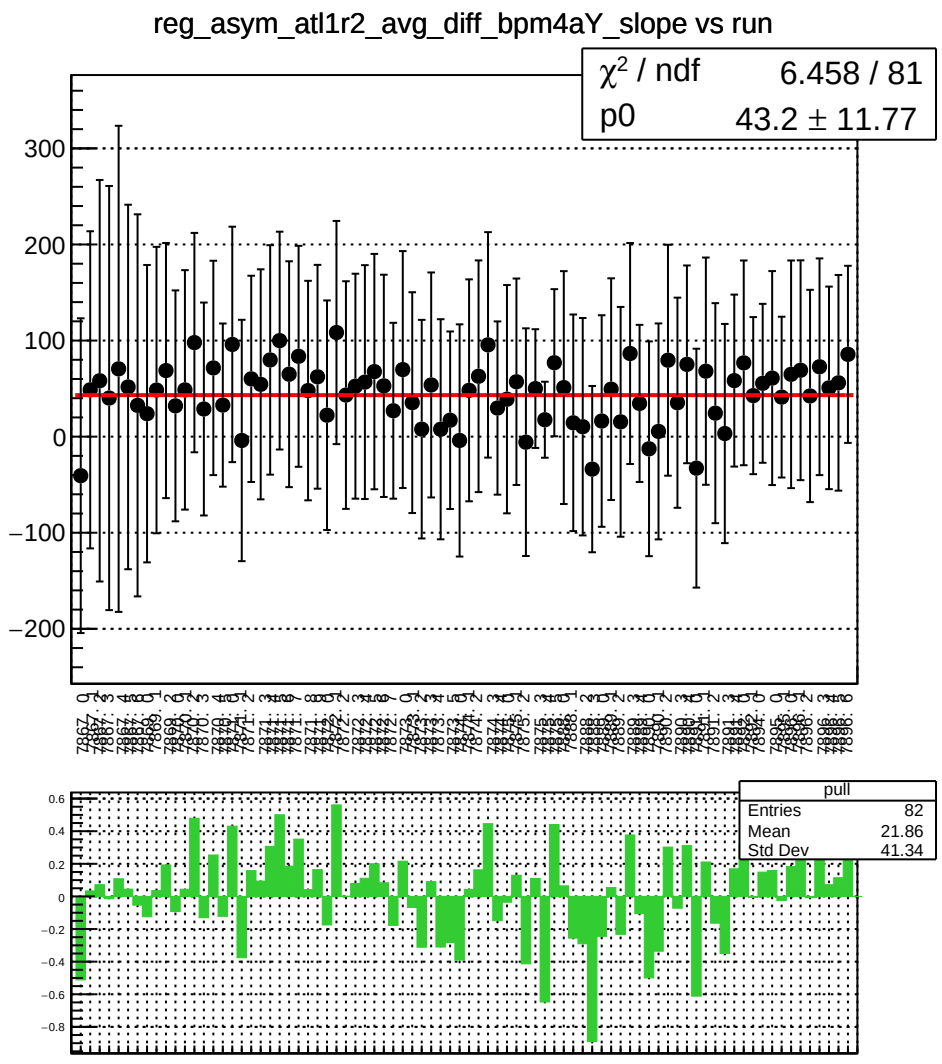

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.83 / 81
p0 −24.32 ± 6.203
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −87.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

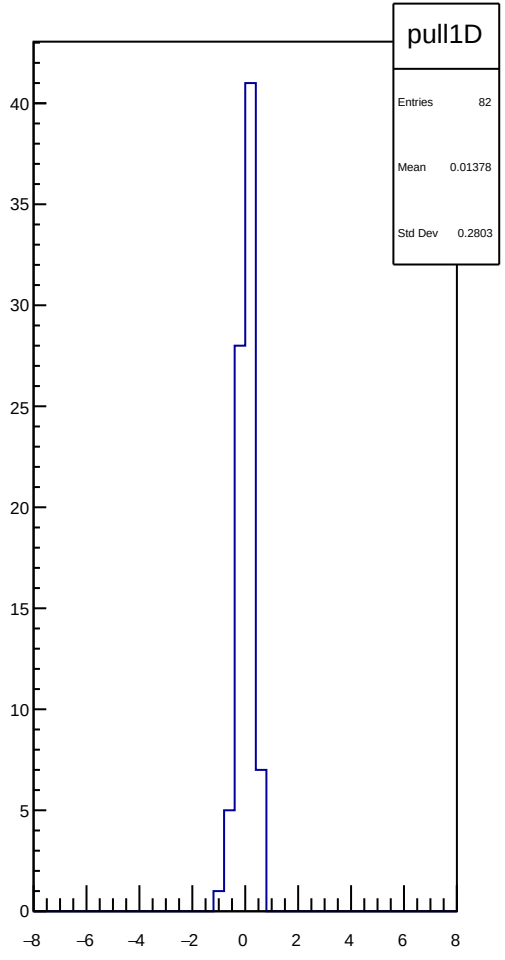

pull1D
Entries 82
Mean 0.01479
Std Dev 0.5928
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

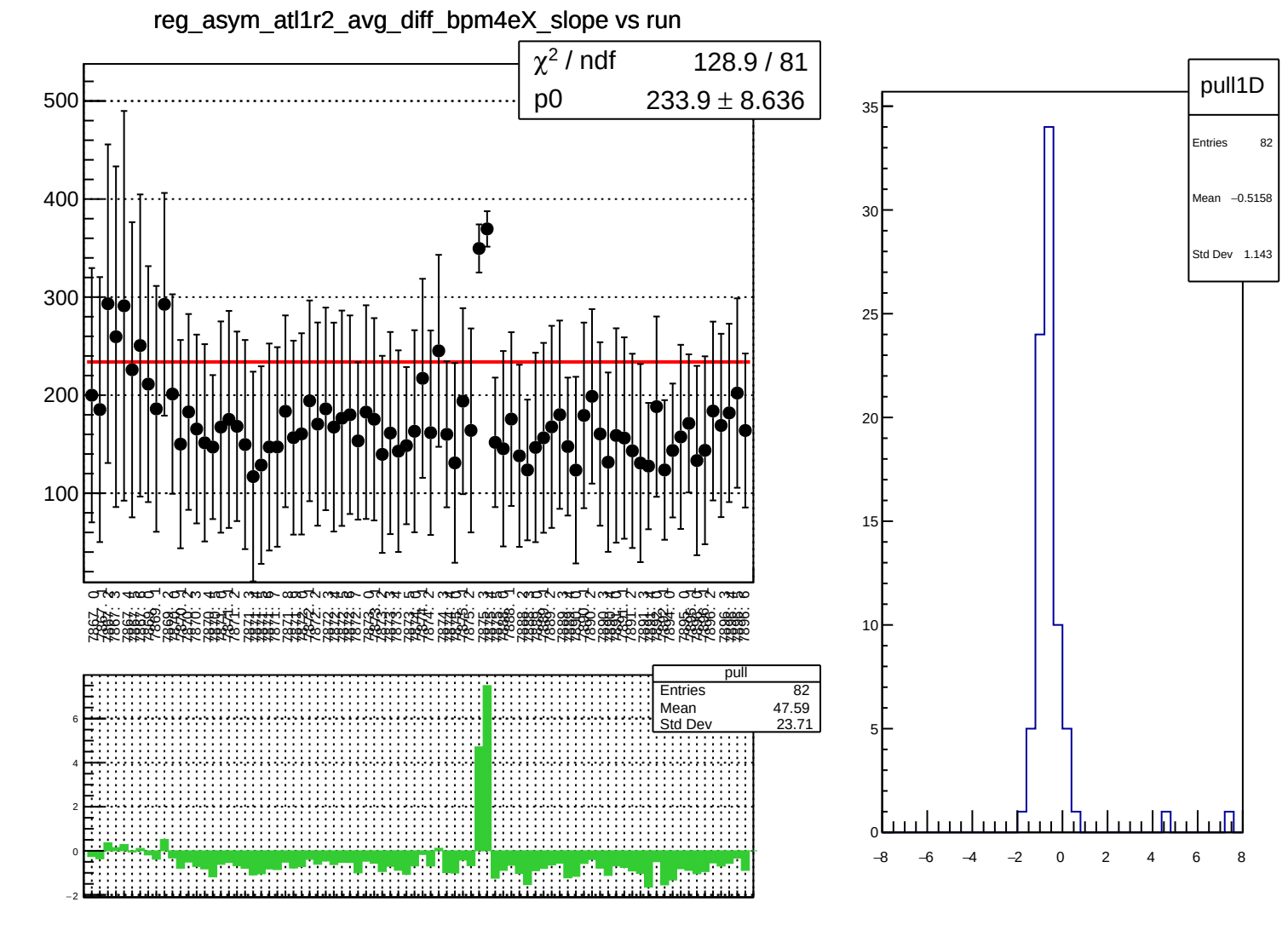

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 66.76 / 81
p0 −21.38 ± 0.1951
pull
Entries 82
Mean 170.4
Std Dev 0

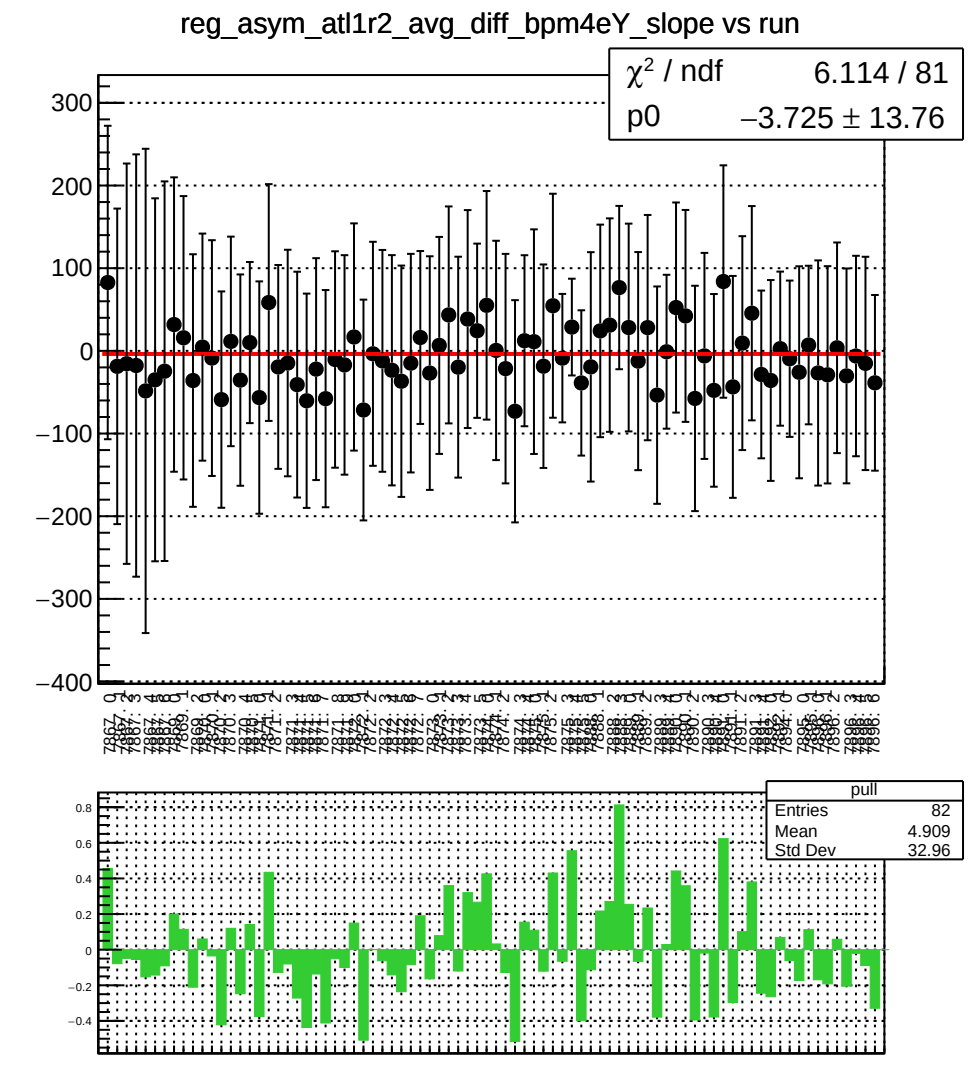

pull1D
Entries 82
Mean −0.03447
Std Dev 0.9016

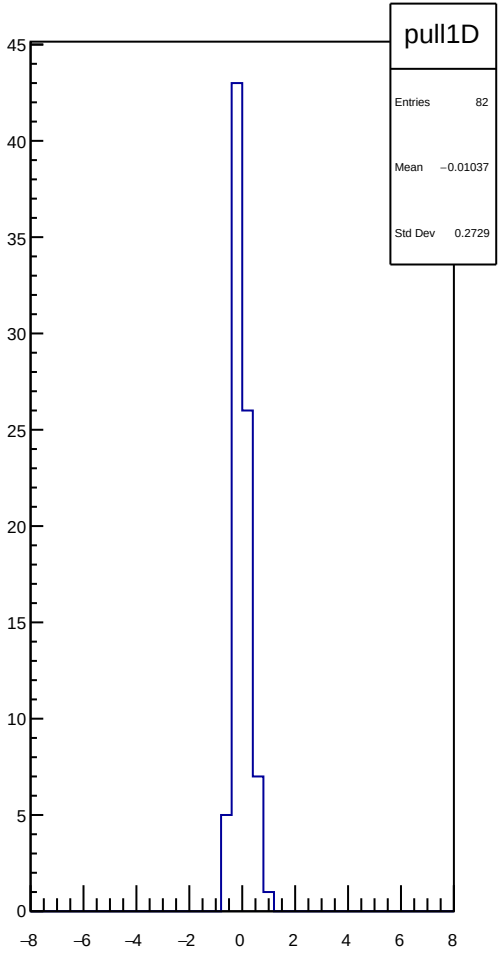

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 102.7 / 81
p0 −166.8 ± 10.35
pull
Entries 82
Mean 48.25
Std Dev 23.28
pull1D
Entries 82
Mean 0.39
Std Dev 1.049

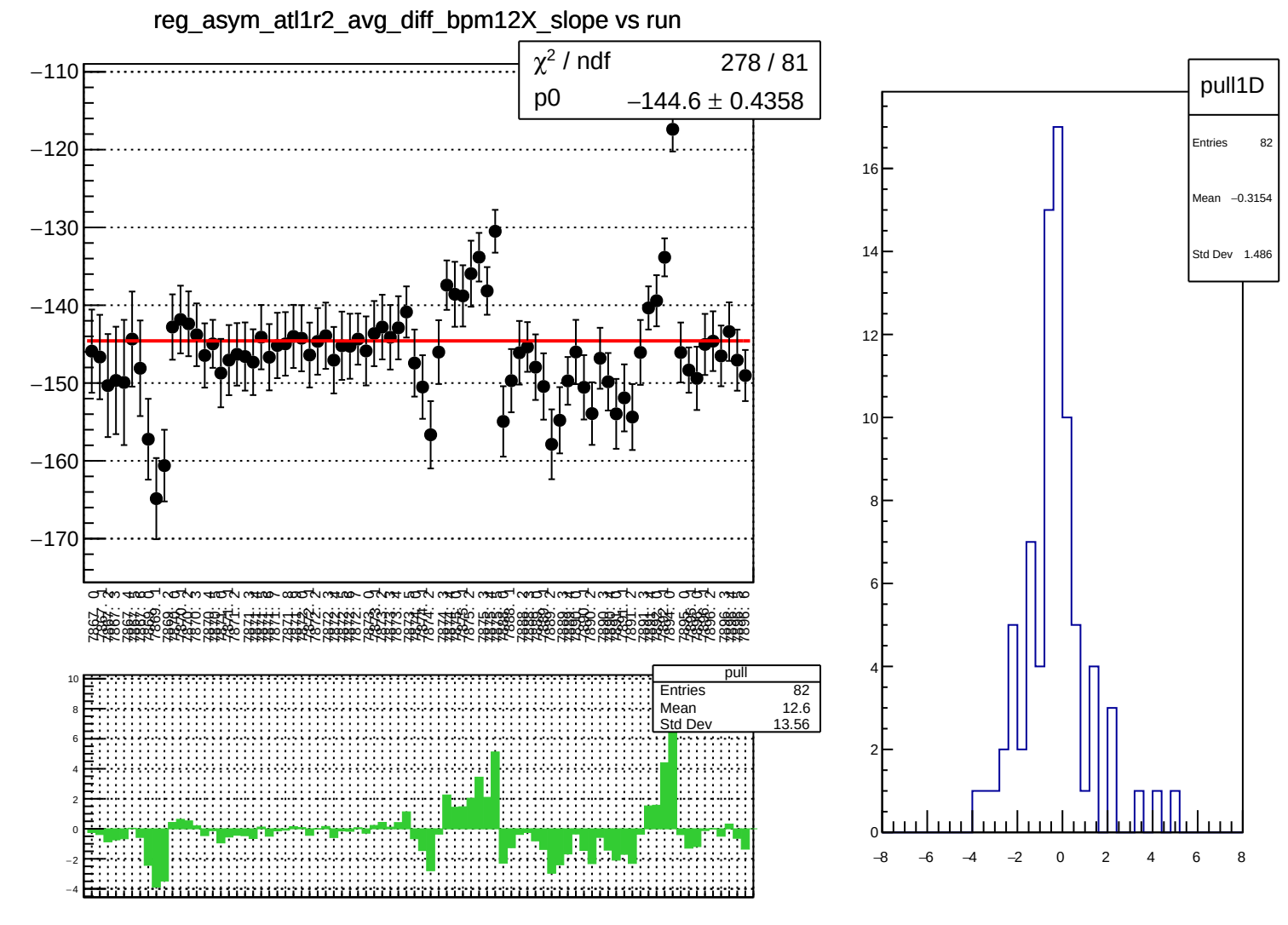

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.458 / 81
p0 43.2 ± 11.77
300
200
100
0
−100
−200
pull
Entries 82
Mean 21.86
Std Dev 41.34
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

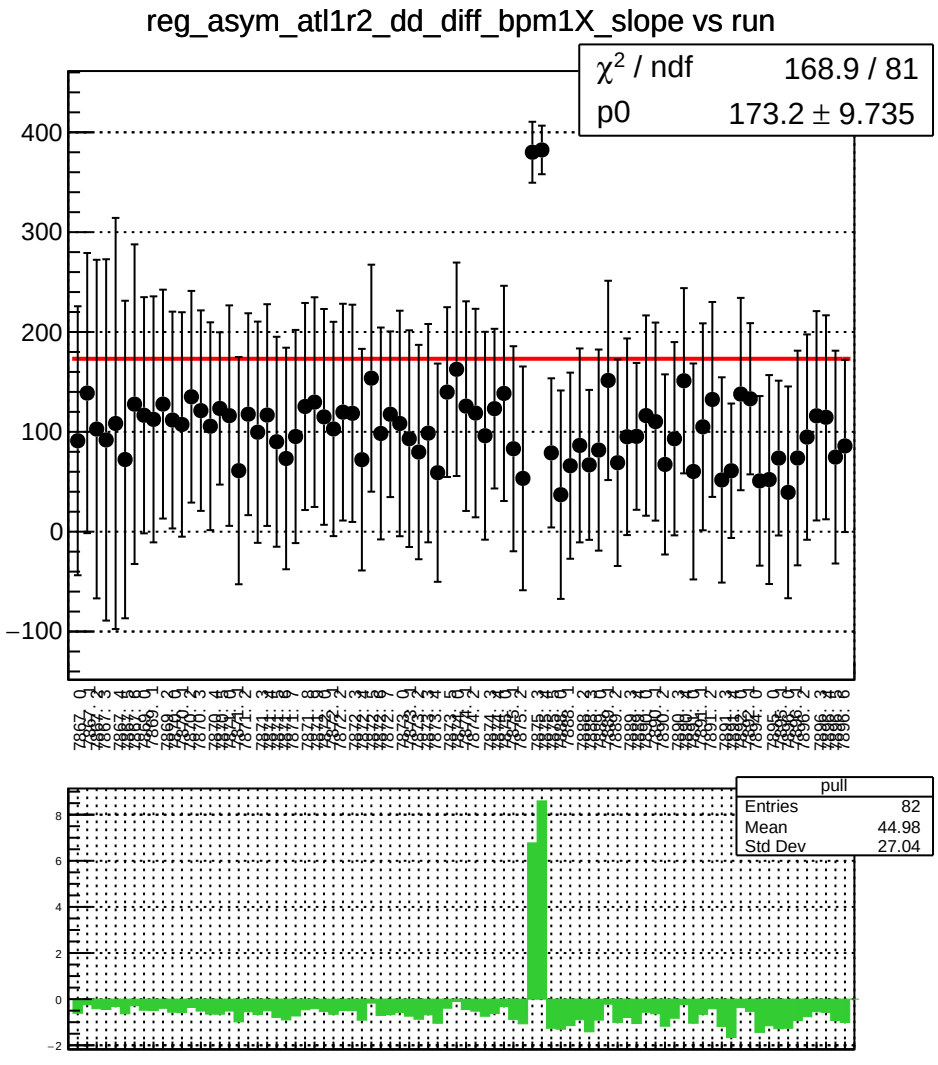

pull1D
Entries 82
Mean 0.01378
Std Dev 0.2803
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

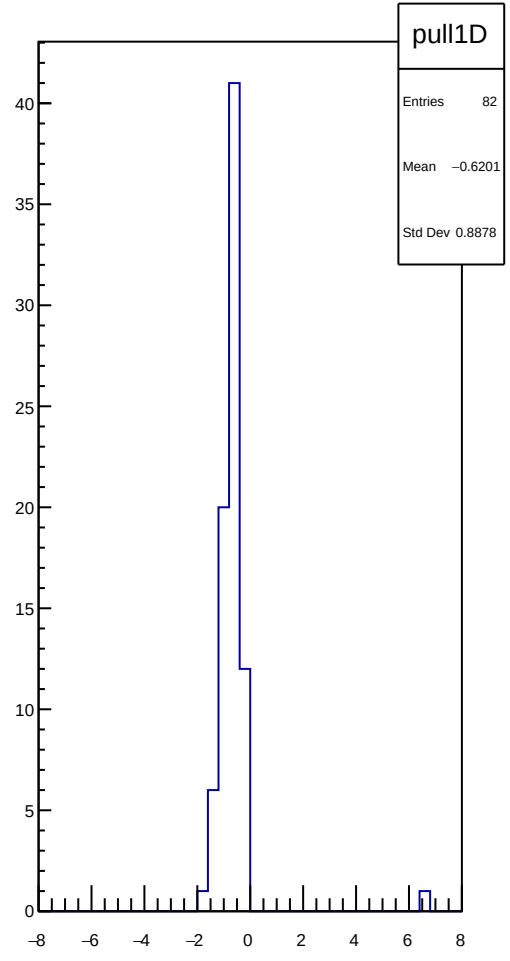

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 128.9 / 81
p0 233.9 ± 8.636
pull
Entries 82
Mean 47.59
Std Dev 23.71
pull1D
Entries 82
Mean −0.5158
Std Dev 1.143

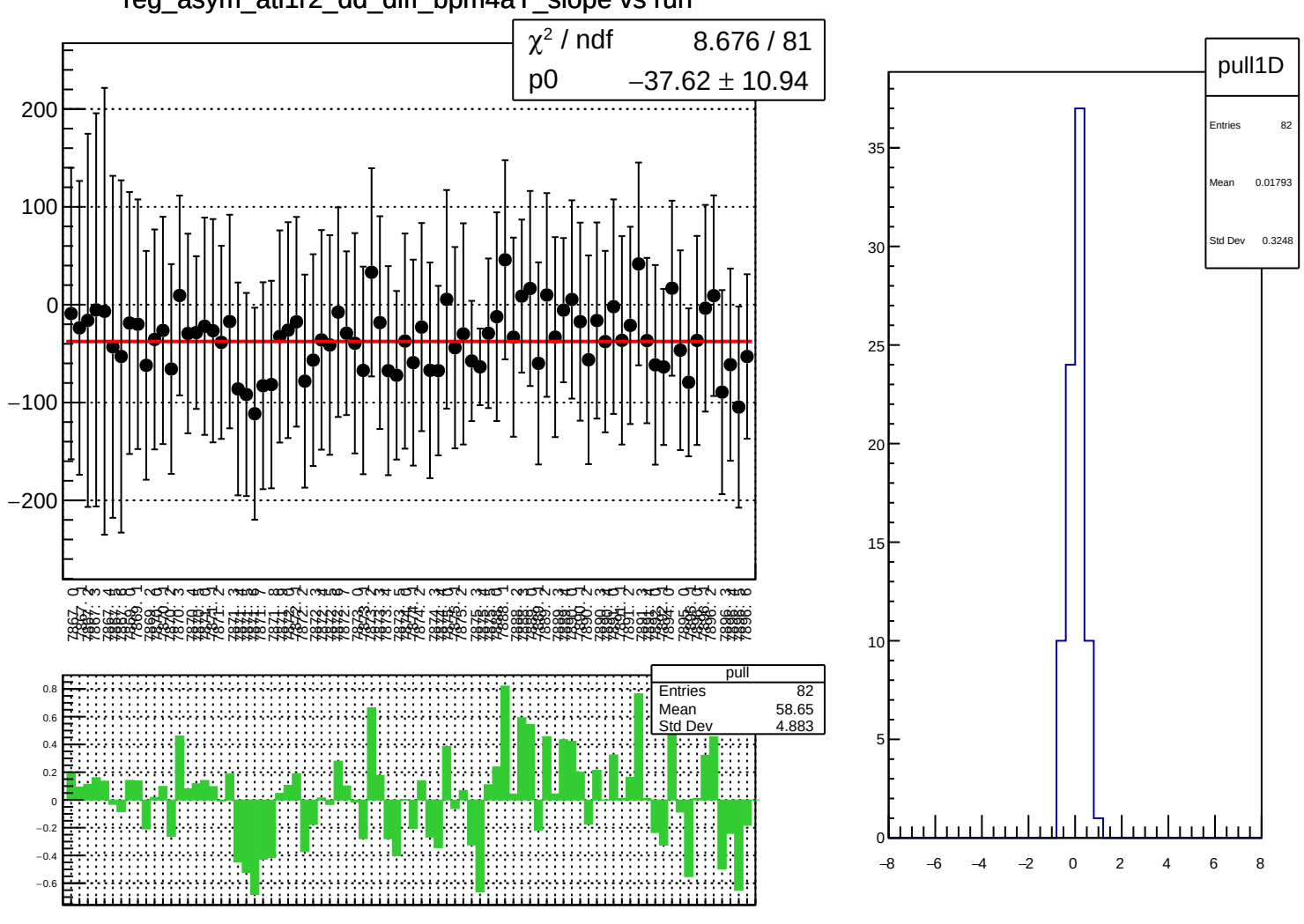

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.114 / 81
p0 −3.725 ± 13.76
pull
Entries 82
Mean 4.909
Std Dev 32.96

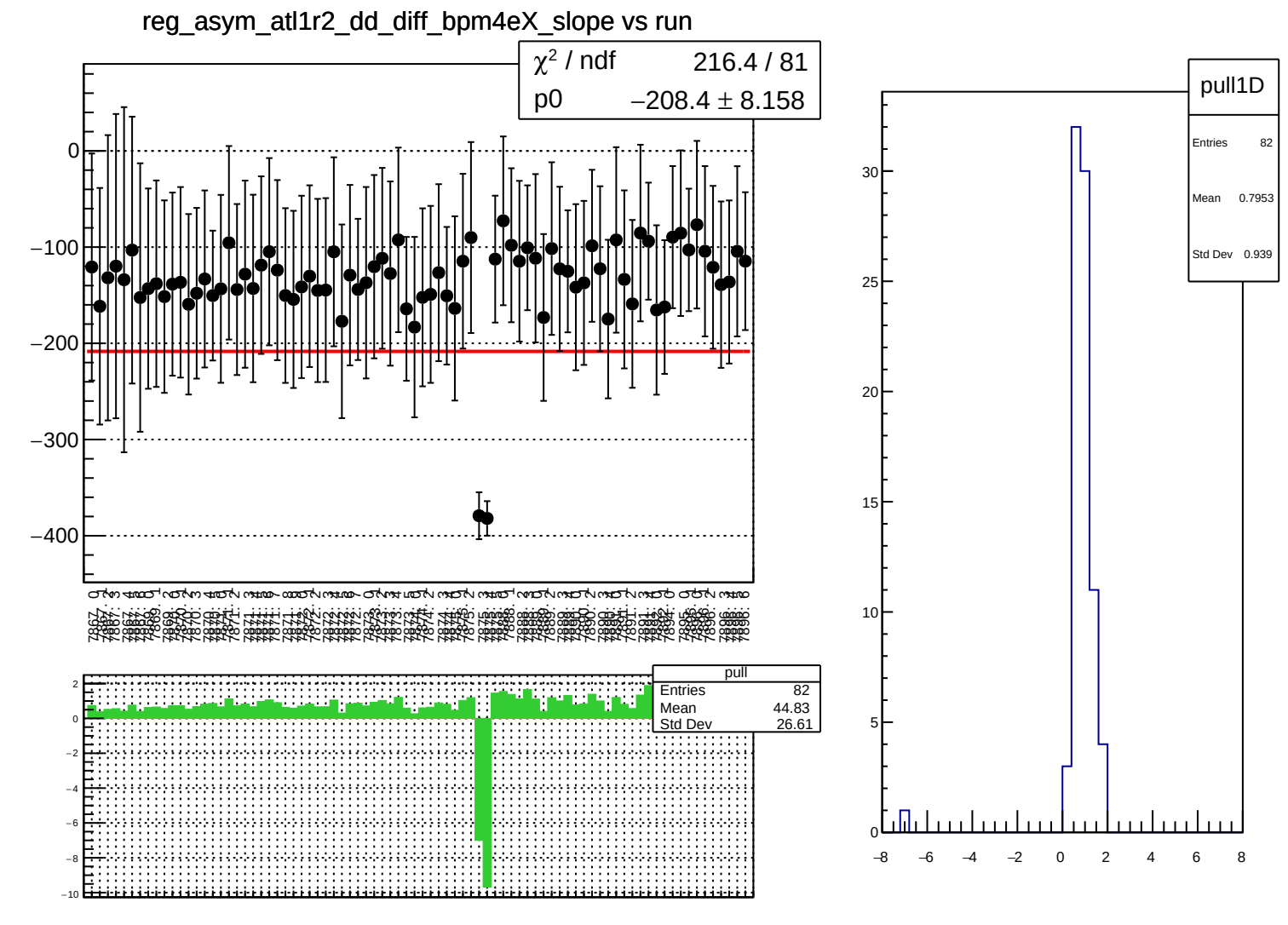

pull1D
Entries 82
Mean −0.01037
Std Dev 0.2729

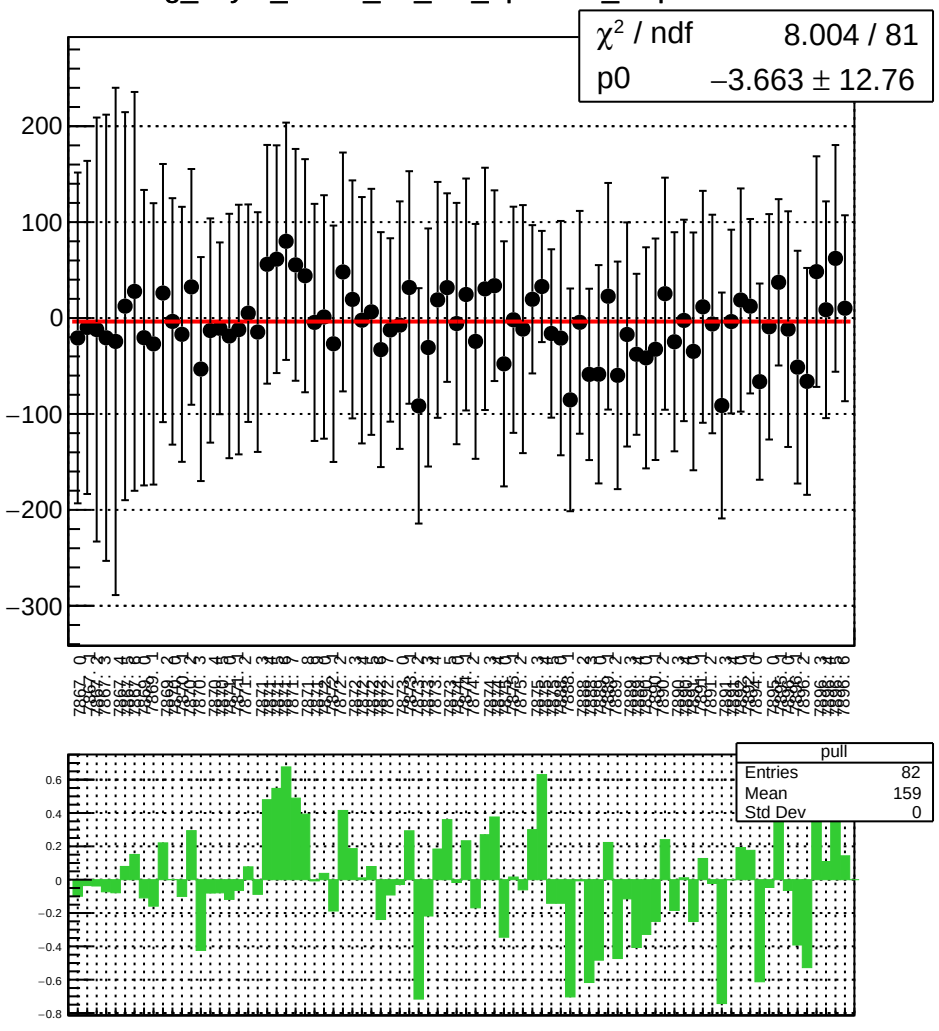

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 278 / 81
p0 −144.6 ± 0.4358
pull
Entries 82
Mean 12.6
Std Dev 13.56
pull1D
Entries 82
Mean −0.3154
Std Dev 1.486

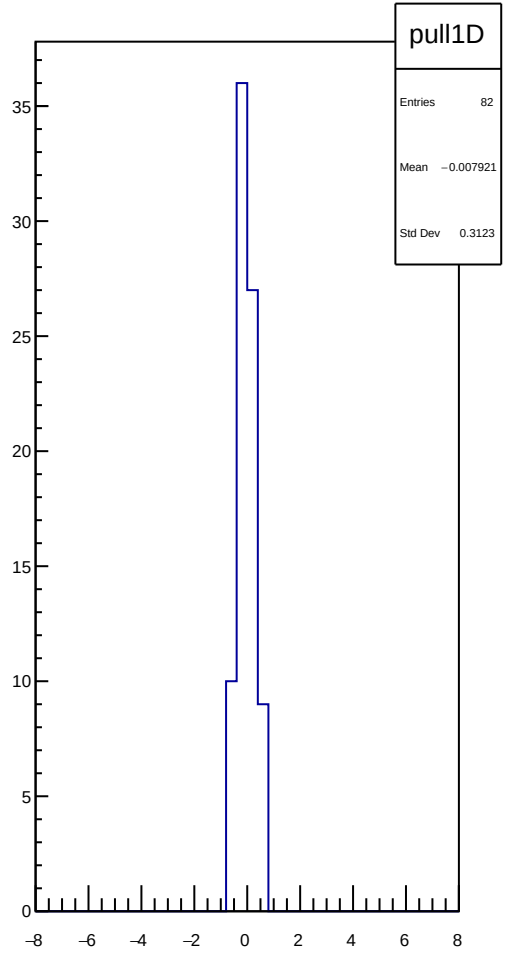

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 168.9 / 81
p0 173.2 ± 9.735
pull
Entries 82
Mean 44.98
Std Dev 27.04

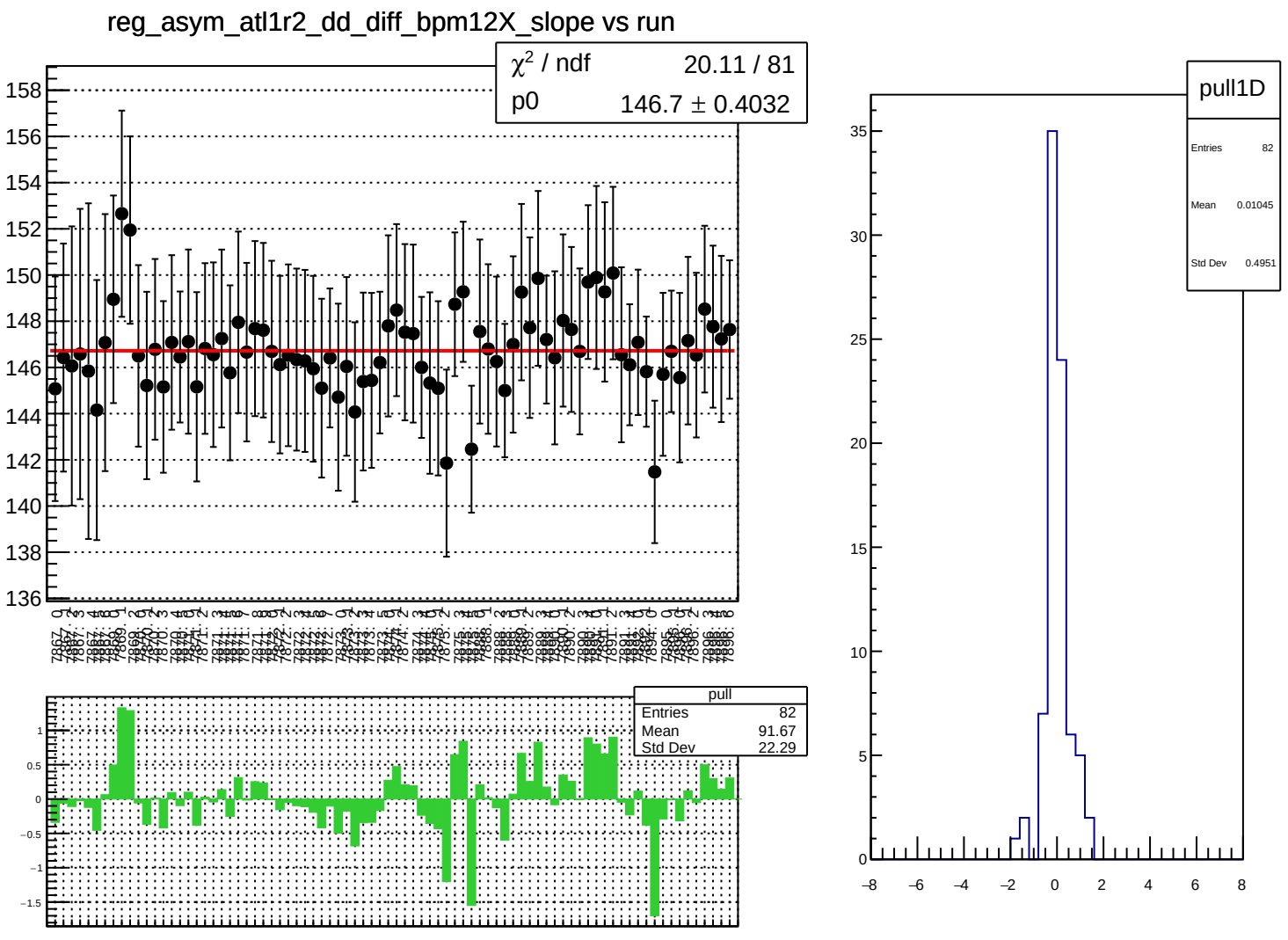

pull1D
Entries 82
Mean −0.6201
Std Dev 0.8878

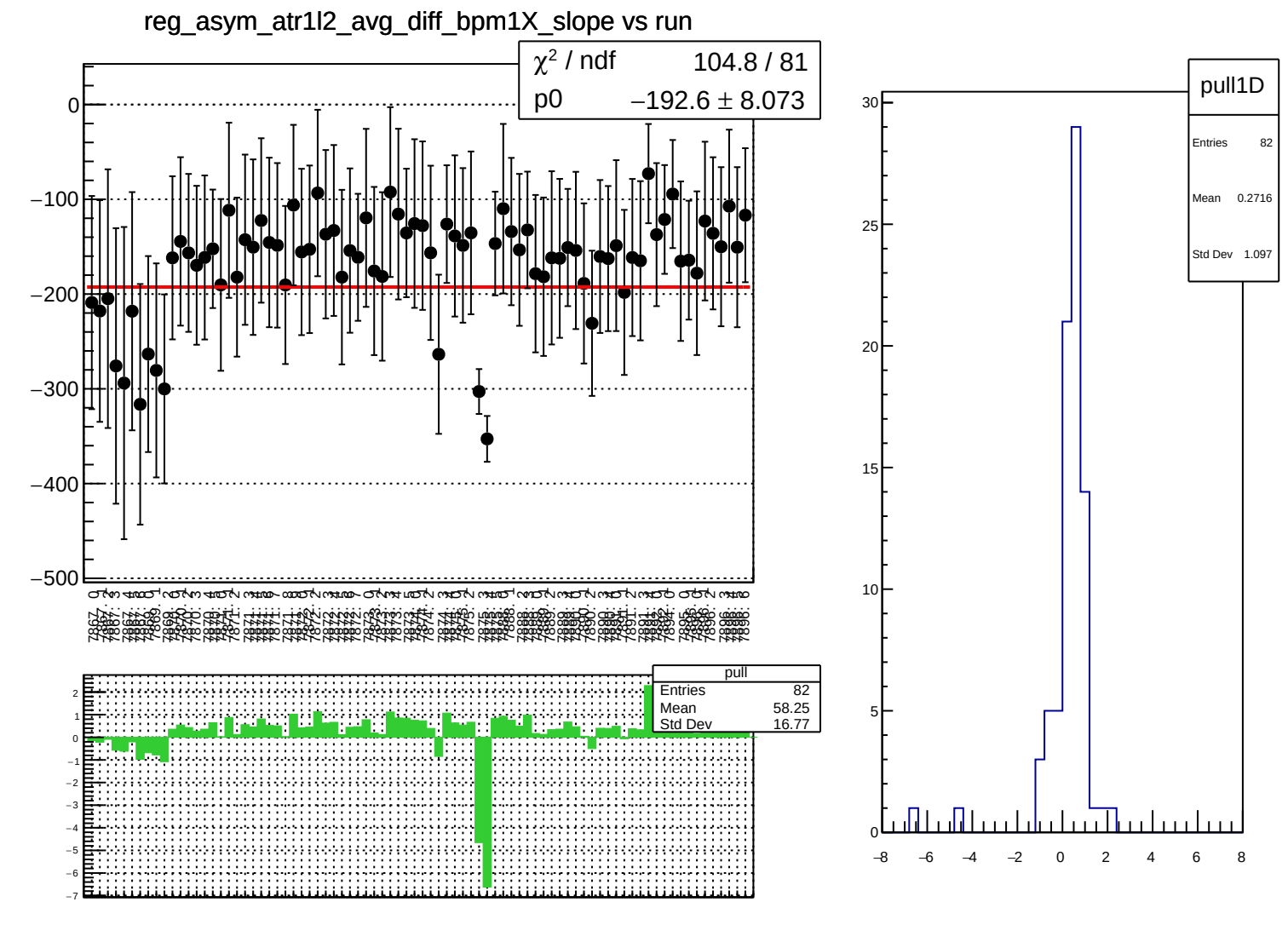

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.676 / 81
p0 −37.62 ± 10.94
pull
Entries 82
Mean 58.65
Std Dev 4.883
pull1D
Entries 82
Mean 0.01793
Std Dev 0.3248

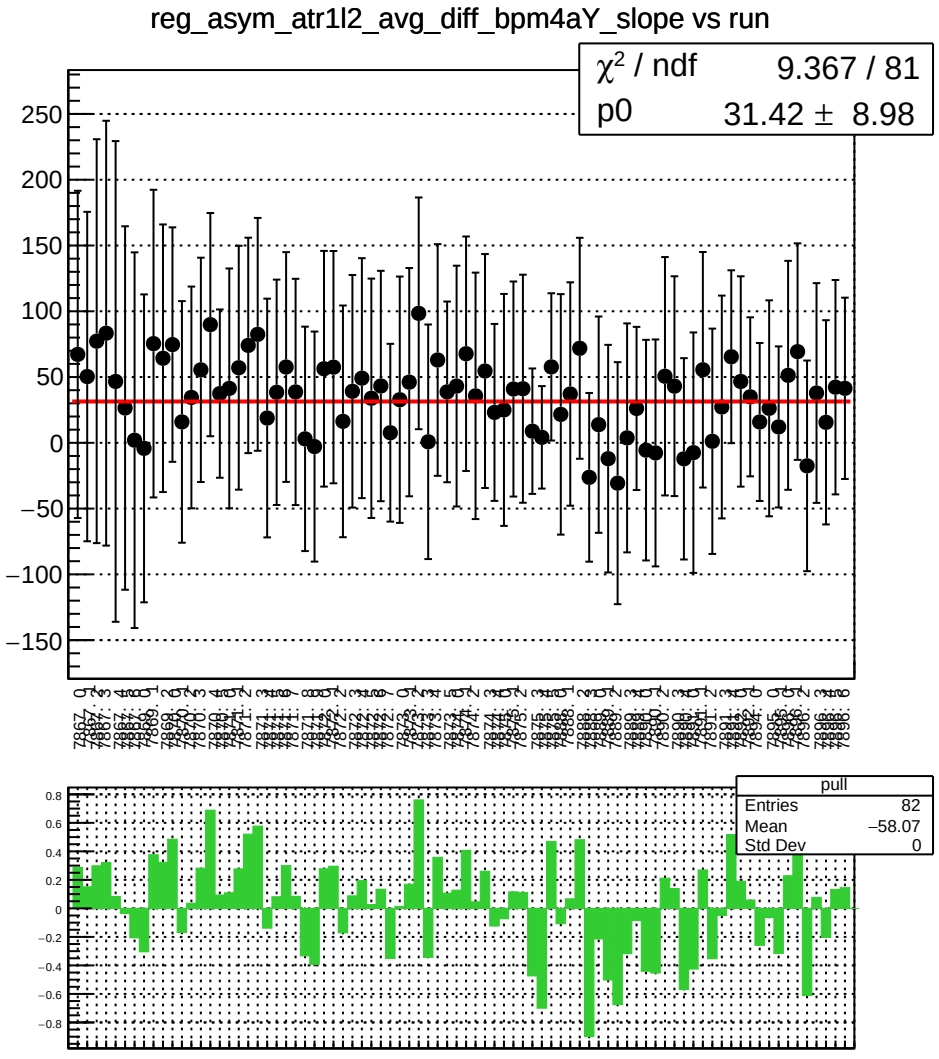

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 216.4 / 81
p0 −208.4 ± 8.158
pull
Entries 82
Mean 44.83
Std Dev 26.61
pull1D
Entries 82
Mean 0.7953
Std Dev 0.939

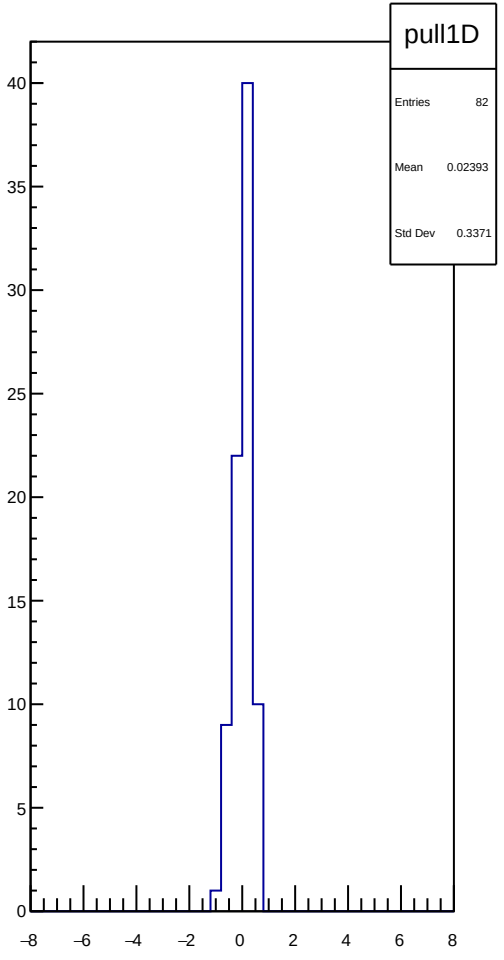

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.004 / 81
p0 −3.663 ± 12.76
200
100
0
−100
−200
−300
pull
Entries 82
Mean 159
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

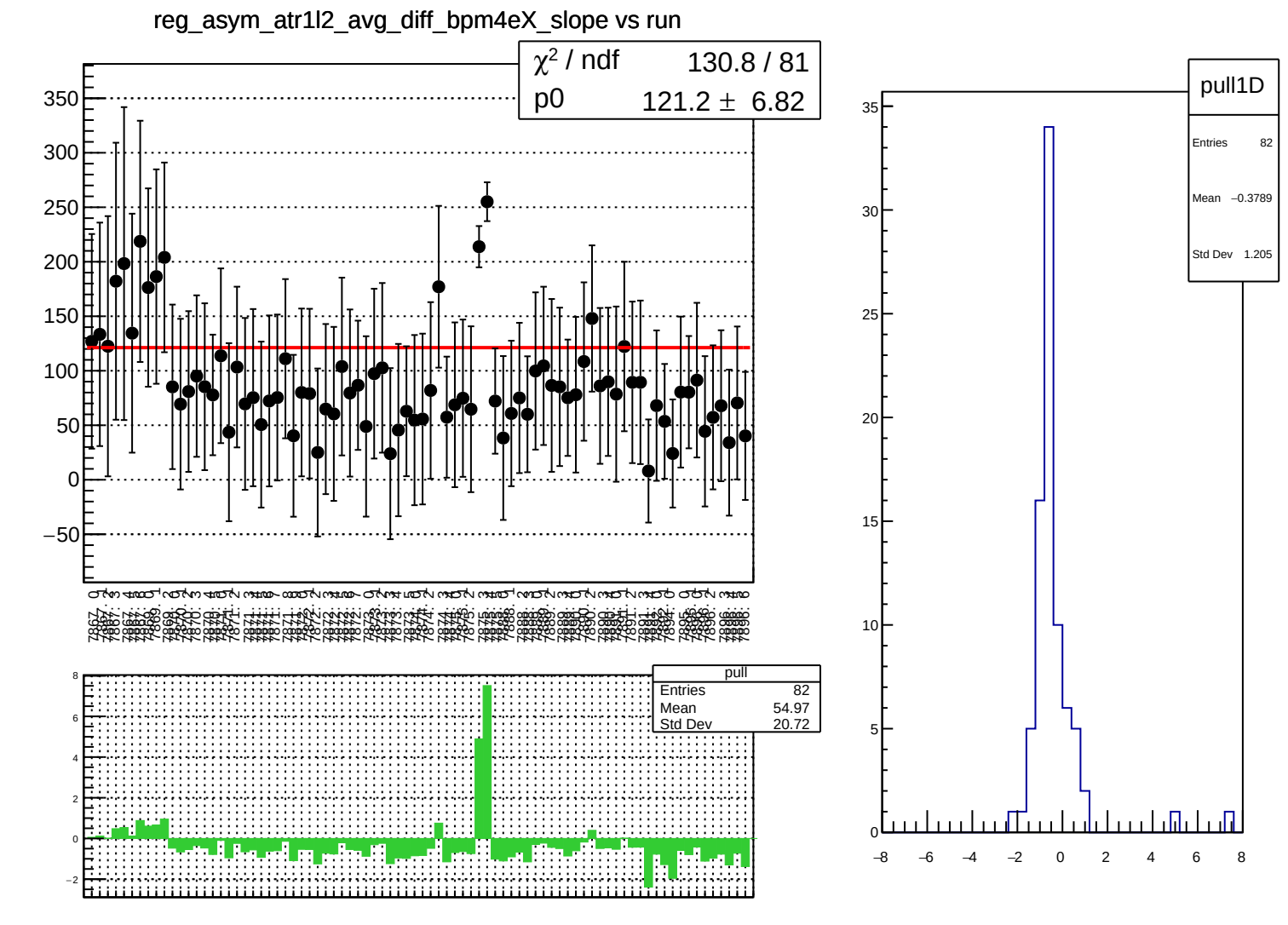

pull1D
Entries 82
Mean −0.007921
Std Dev 0.3123
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

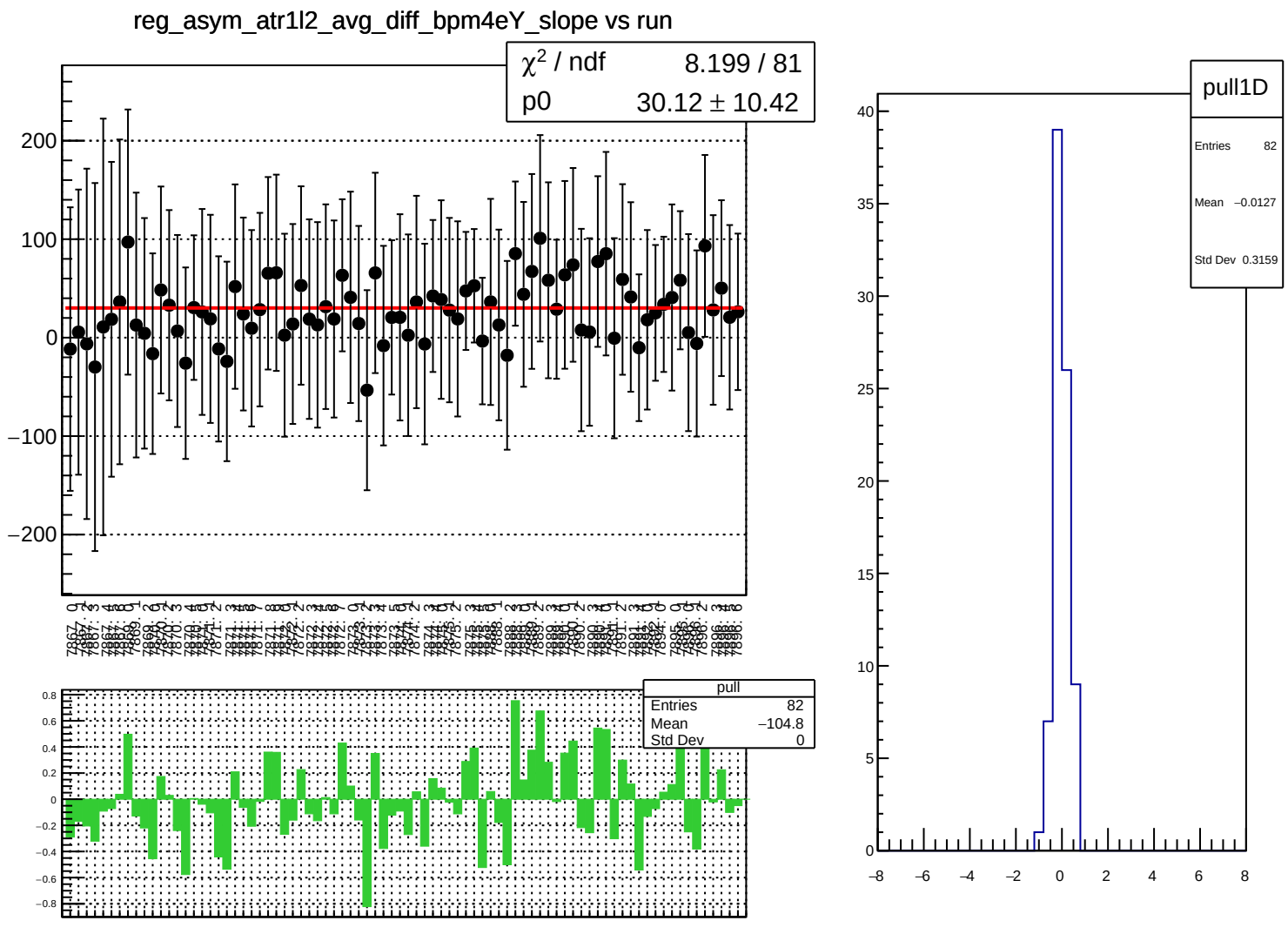

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.11 / 81
p0 146.7 ± 0.4032
158
156
154
152
150
148
146
144
142
140
138
136
pull
Entries 82
Mean 91.67
Std Dev 22.29
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.01045
Std Dev 0.4951
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

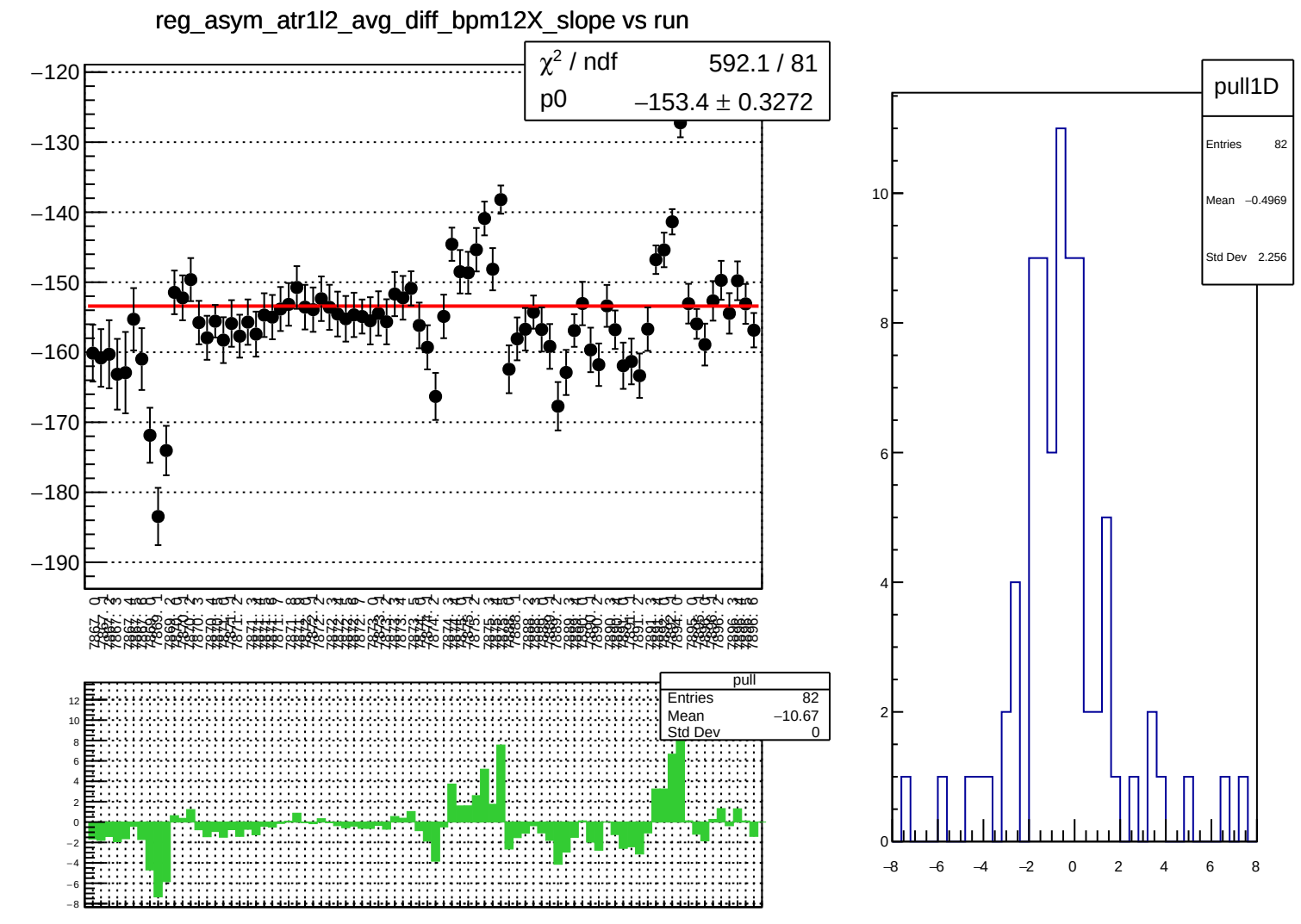

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 104.8 / 81
p0 −192.6 ± 8.073
pull
Entries 82
Mean 58.25
Std Dev 16.77
pull1D
Entries 82
Mean 0.2716
Std Dev 1.097

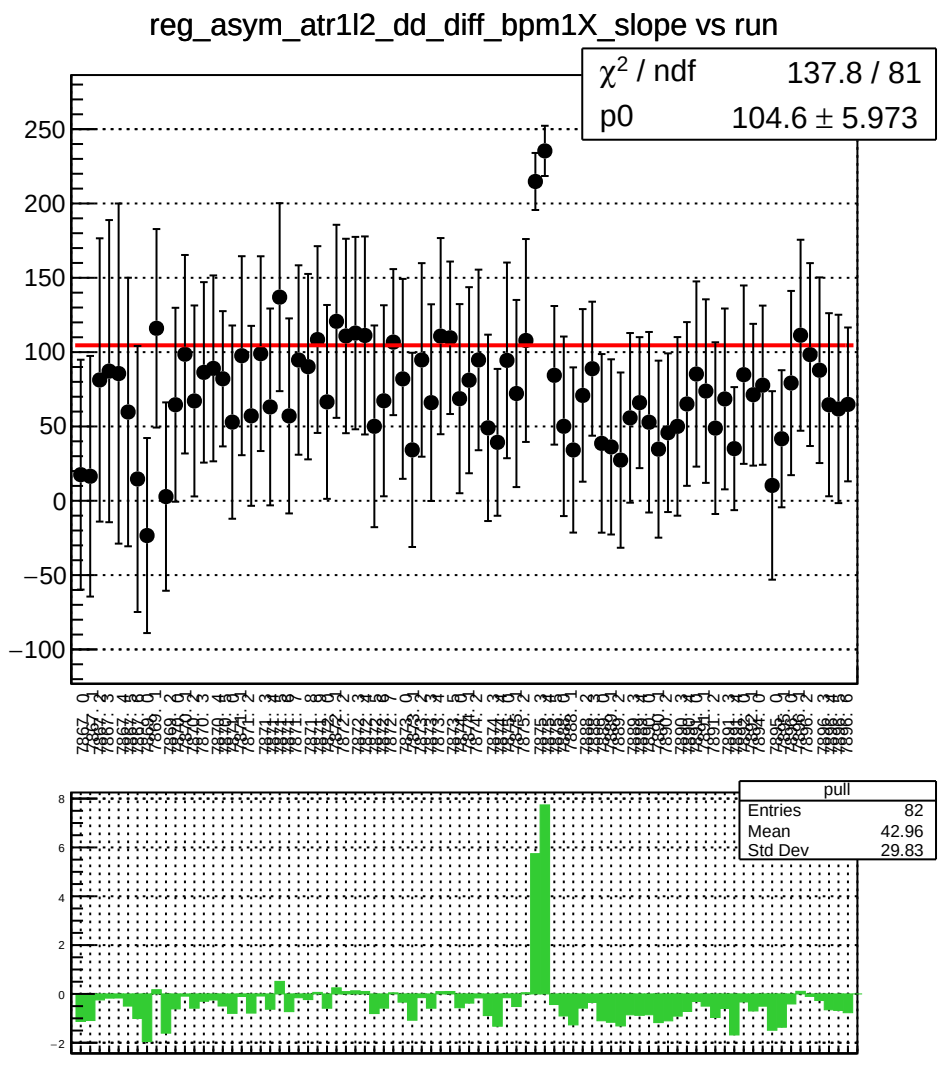

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.367 / 81
p0 31.42 ± 8.98
pull
Entries 82
Mean −58.07
Std Dev 0

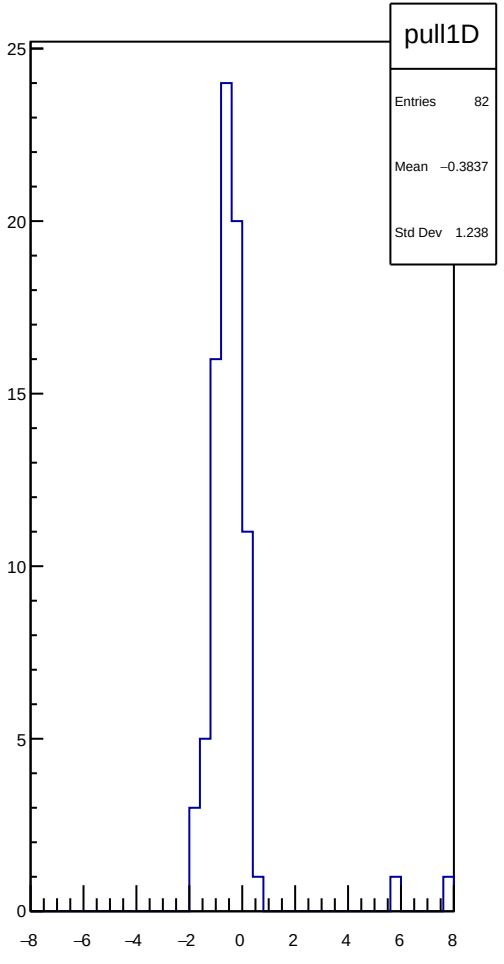

pull1D
Entries 82
Mean 0.02393
Std Dev 0.3371

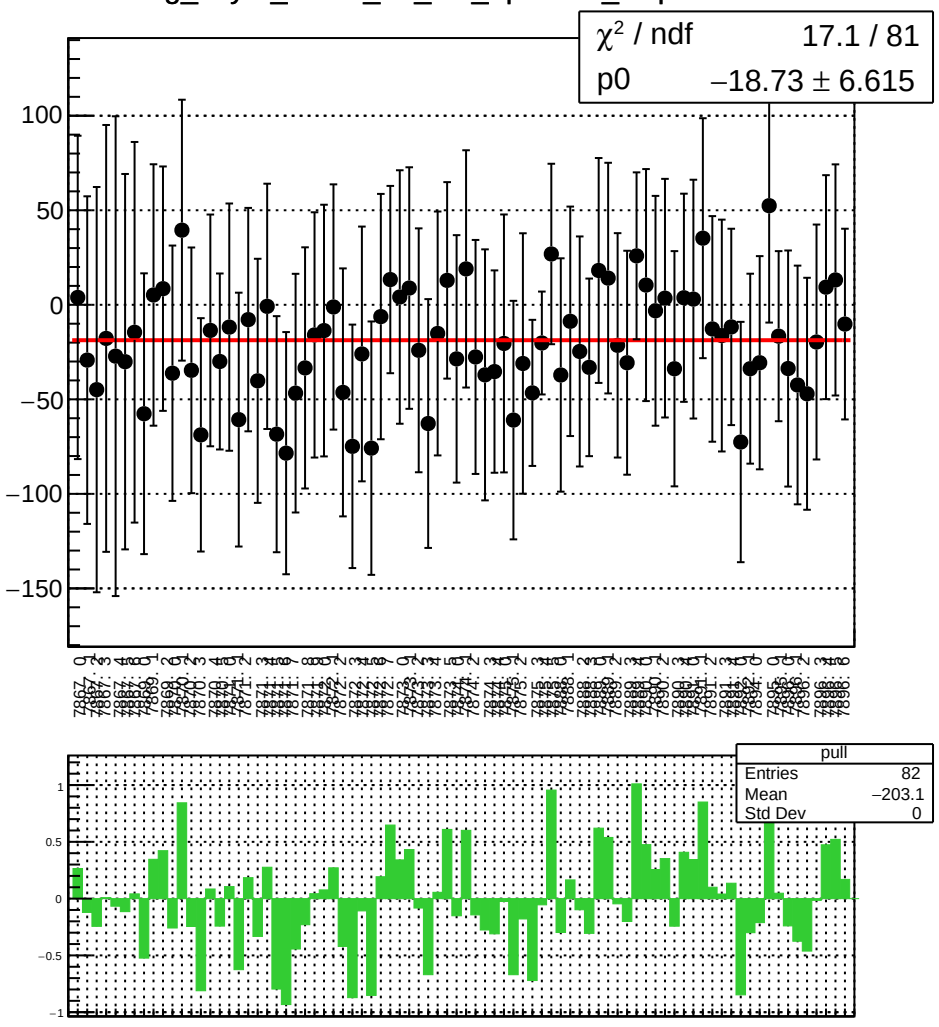

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.8 / 81
p0 121.2 ± 6.82
pull
Entries 82
Mean 54.97
Std Dev 20.72
pull1D
Entries 82
Mean −0.3789
Std Dev 1.205

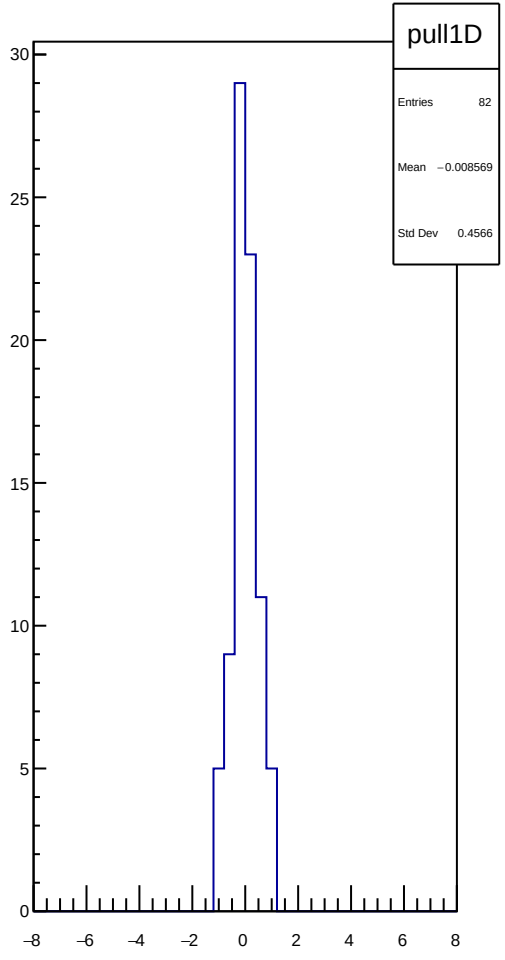

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.199 / 81
p0 30.12 ± 10.42
200
100
0
−100
−200
pull
Entries 82
Mean −104.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 82
Mean −0.0127
Std Dev 0.3159
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

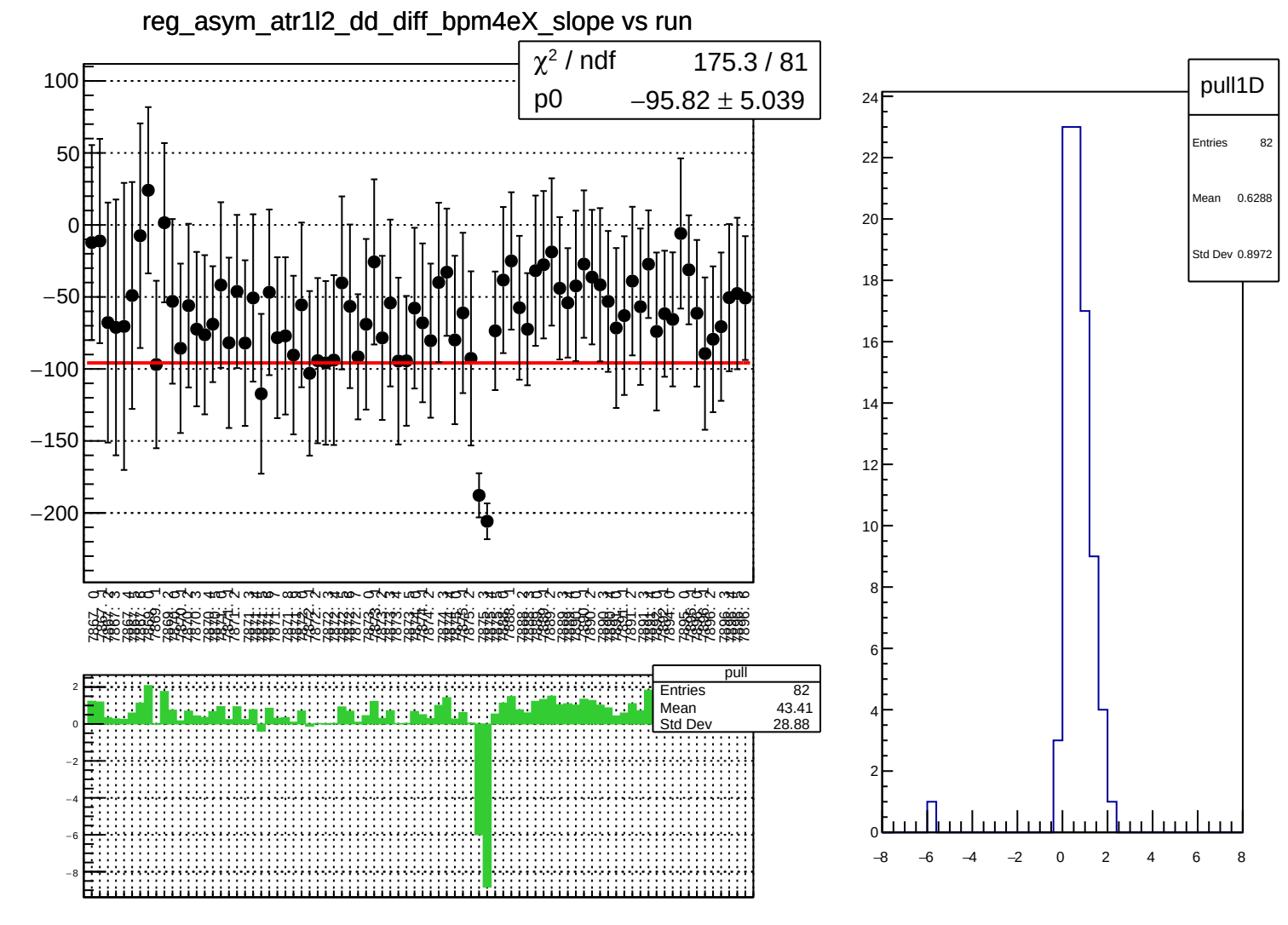

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 592.1 / 81
p0 −153.4 ± 0.3272
pull
Entries 82
Mean −10.67
Std Dev 0
pull1D
Entries 82
Mean −0.4969
Std Dev 2.256

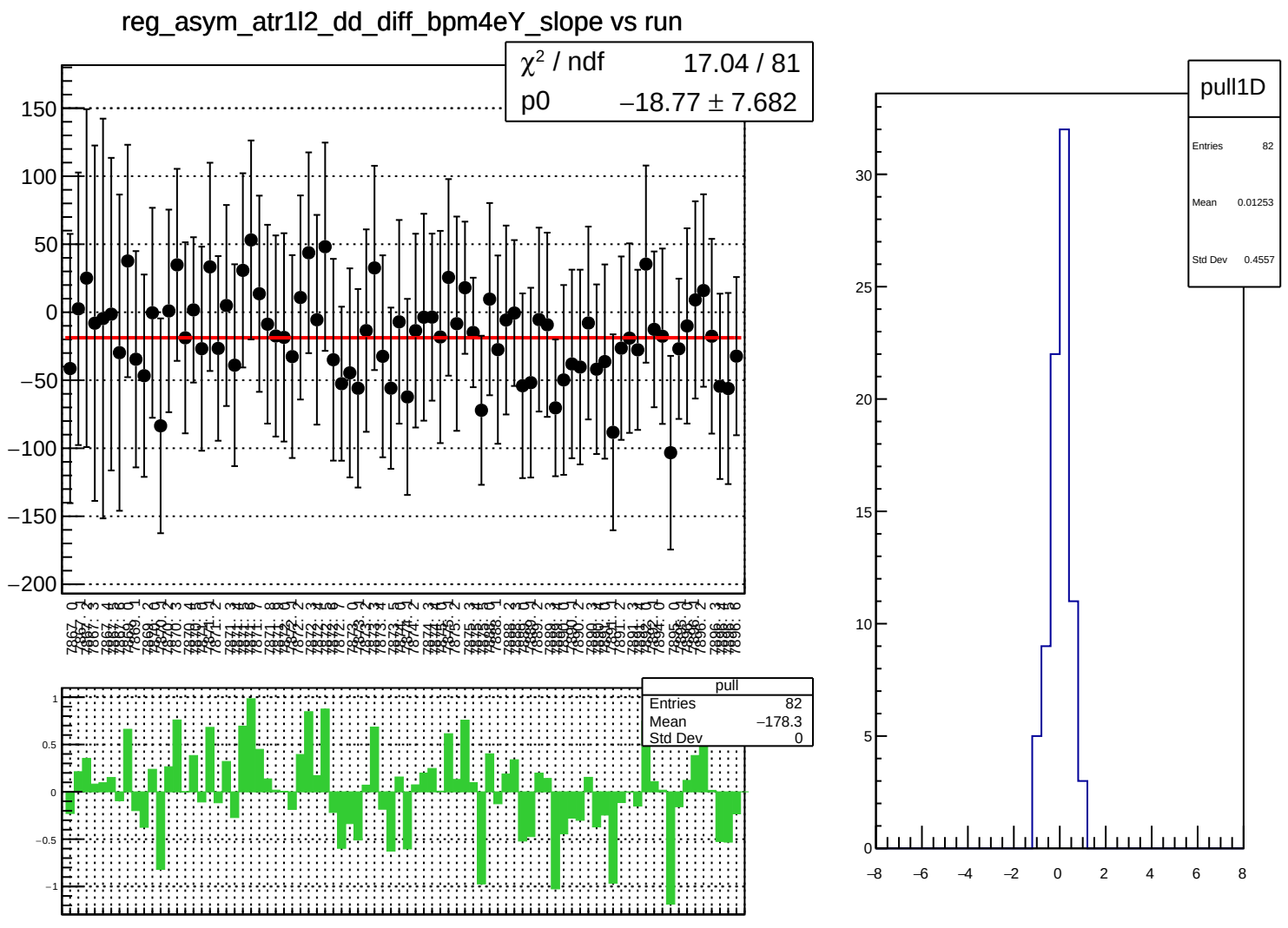

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 137.8 / 81
p0 104.6 ± 5.973
pull
Entries 82
Mean 42.96
Std Dev 29.83

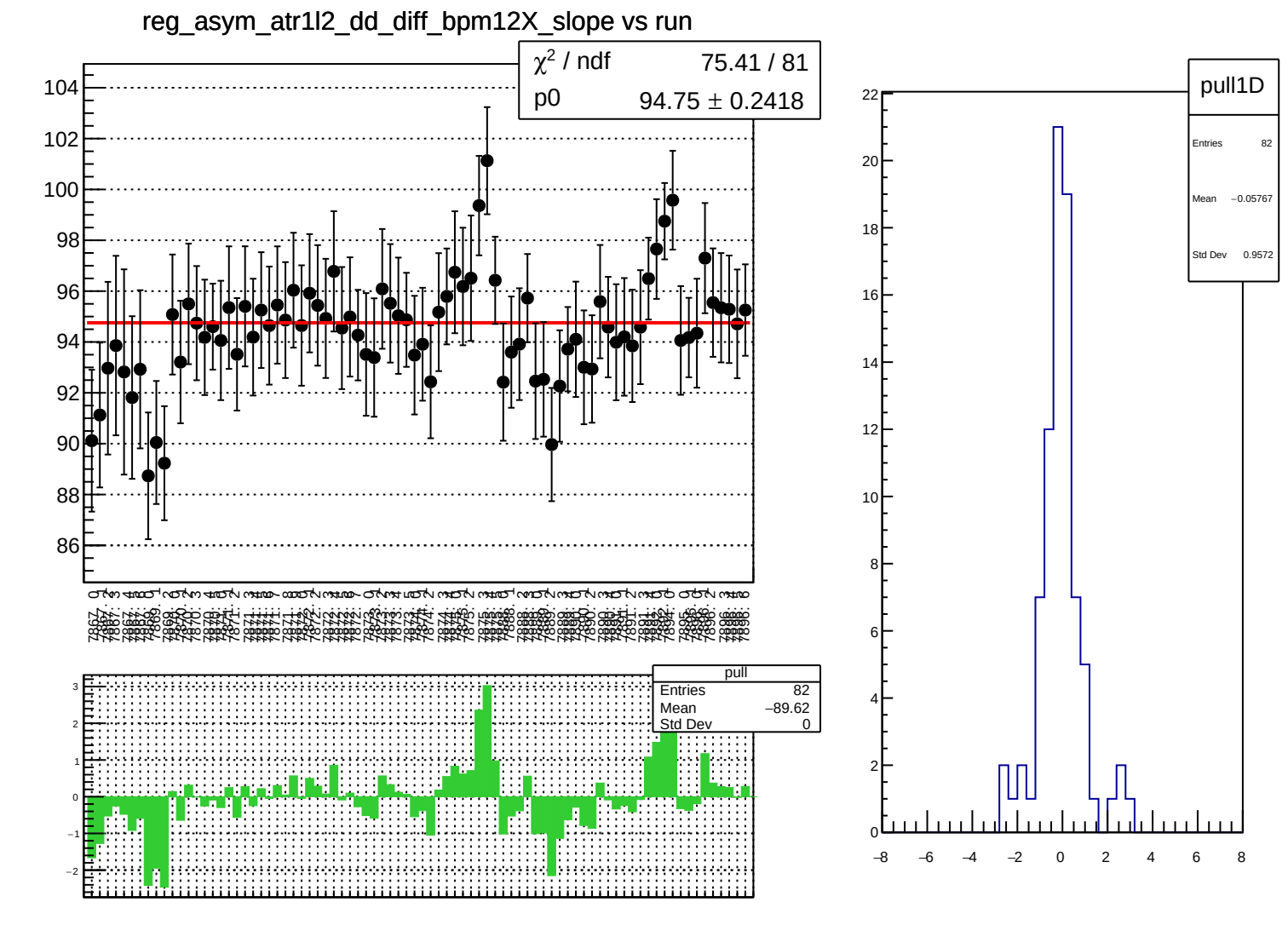

pull1D
Entries 82
Mean −0.3837
Std Dev 1.238

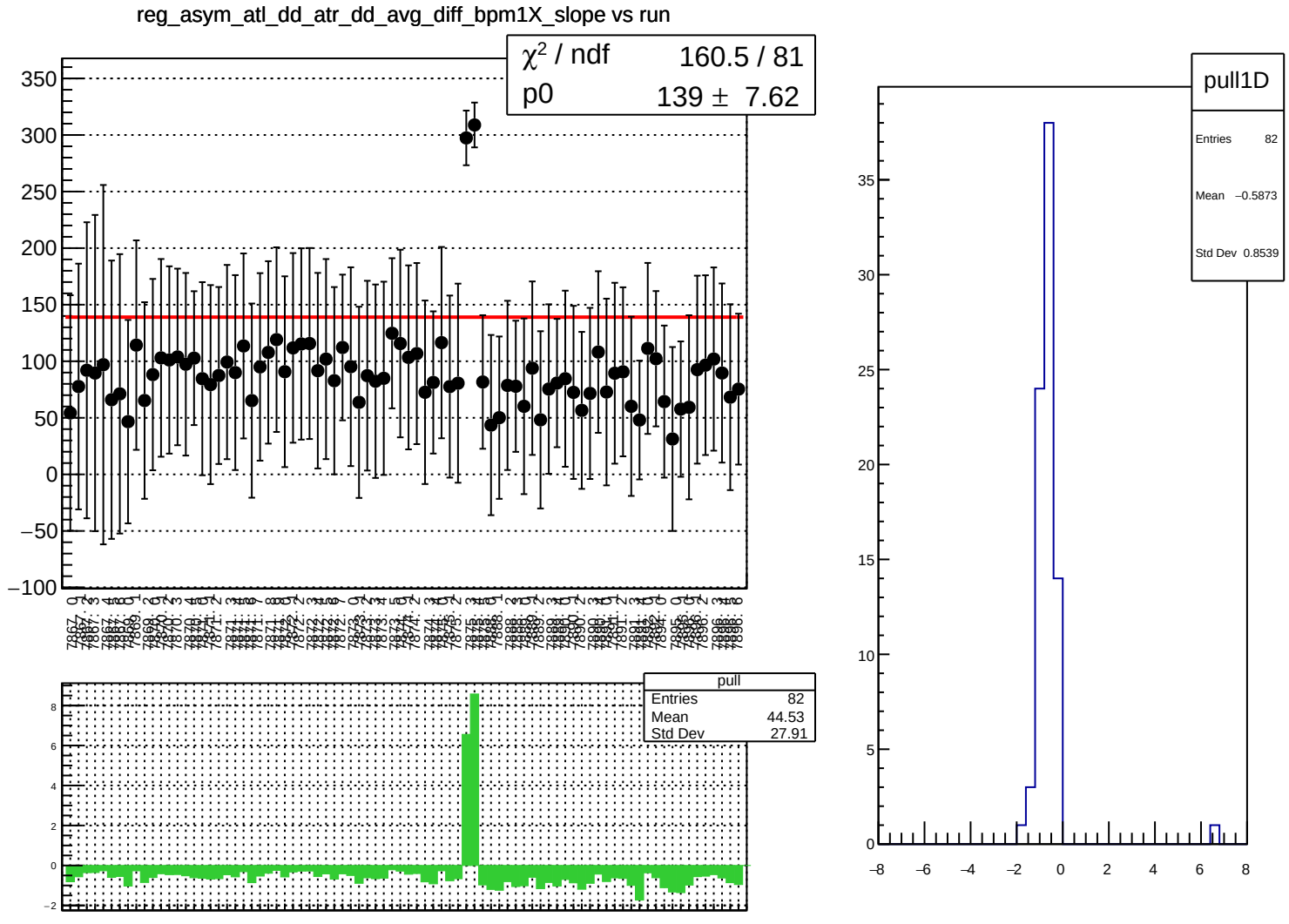

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.1 / 81
p0 −18.73 ± 6.615
pull
Entries 82
Mean −203.1
Std Dev 0

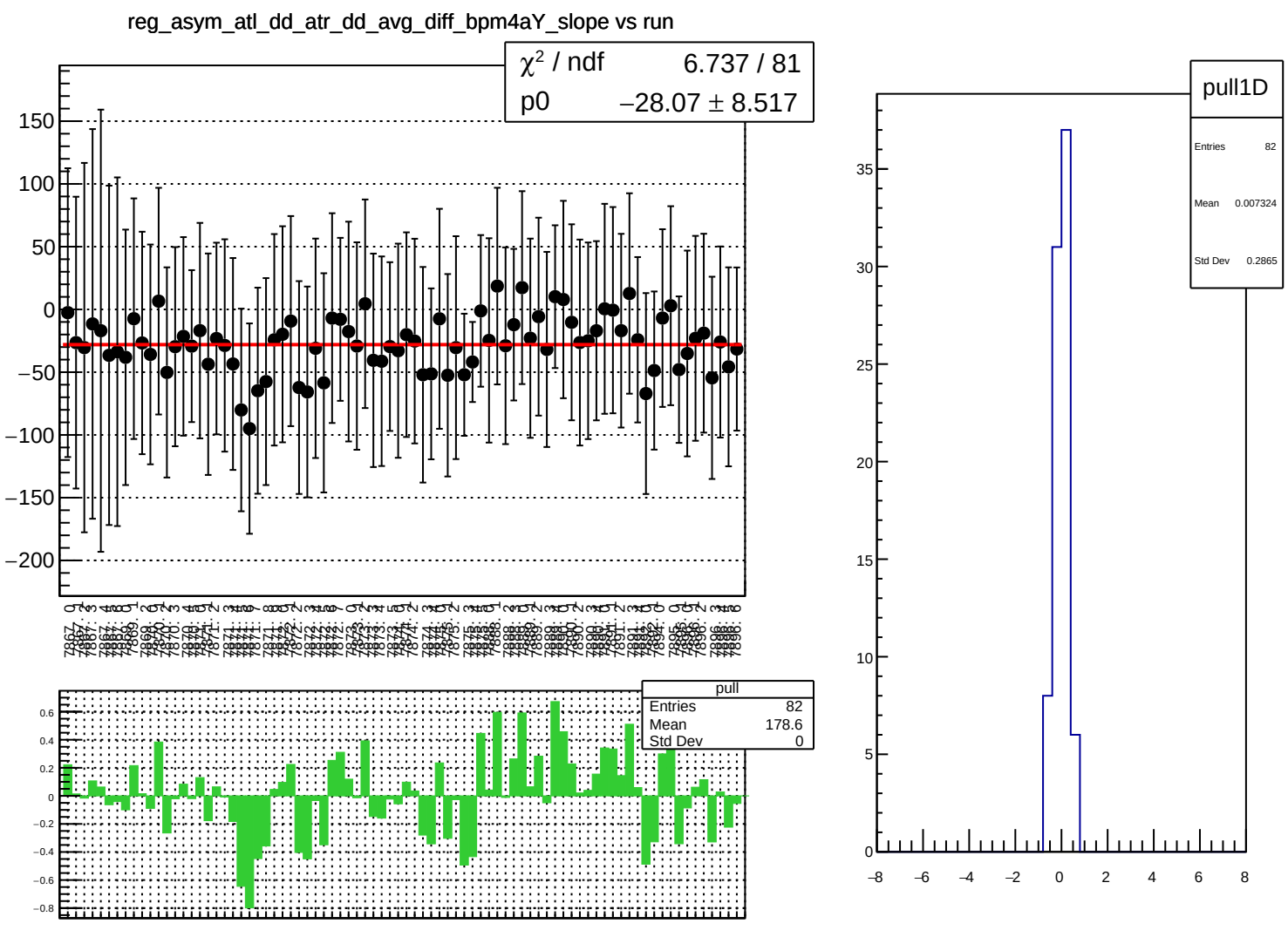

pull1D
Entries 82
Mean −0.008569
Std Dev 0.4566

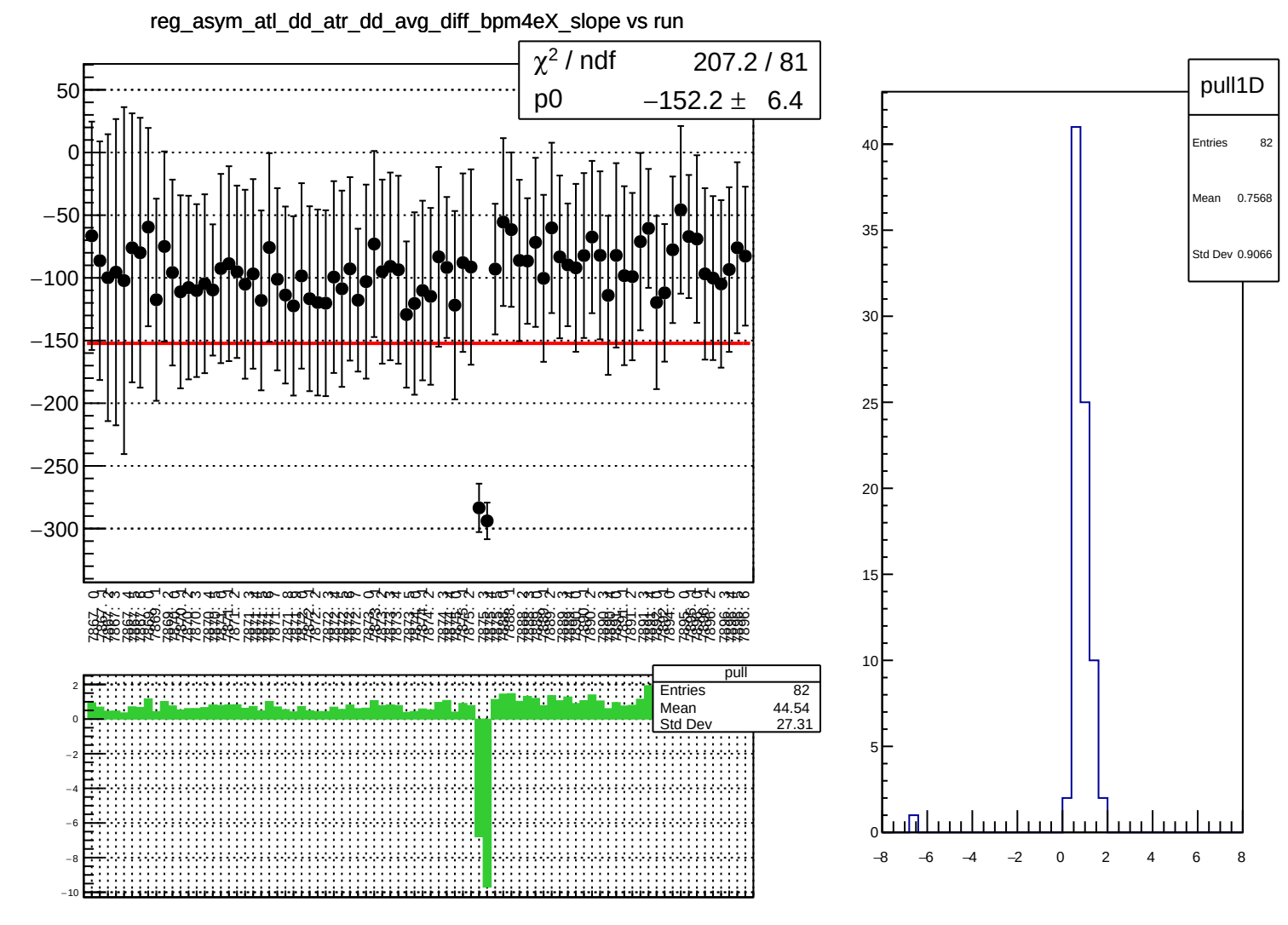

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 175.3 / 81
p0 −95.82 ± 5.039
pull
Entries 82
Mean 43.41
Std Dev 28.88
pull1D
Entries 82
Mean 0.6288
Std Dev 0.8972

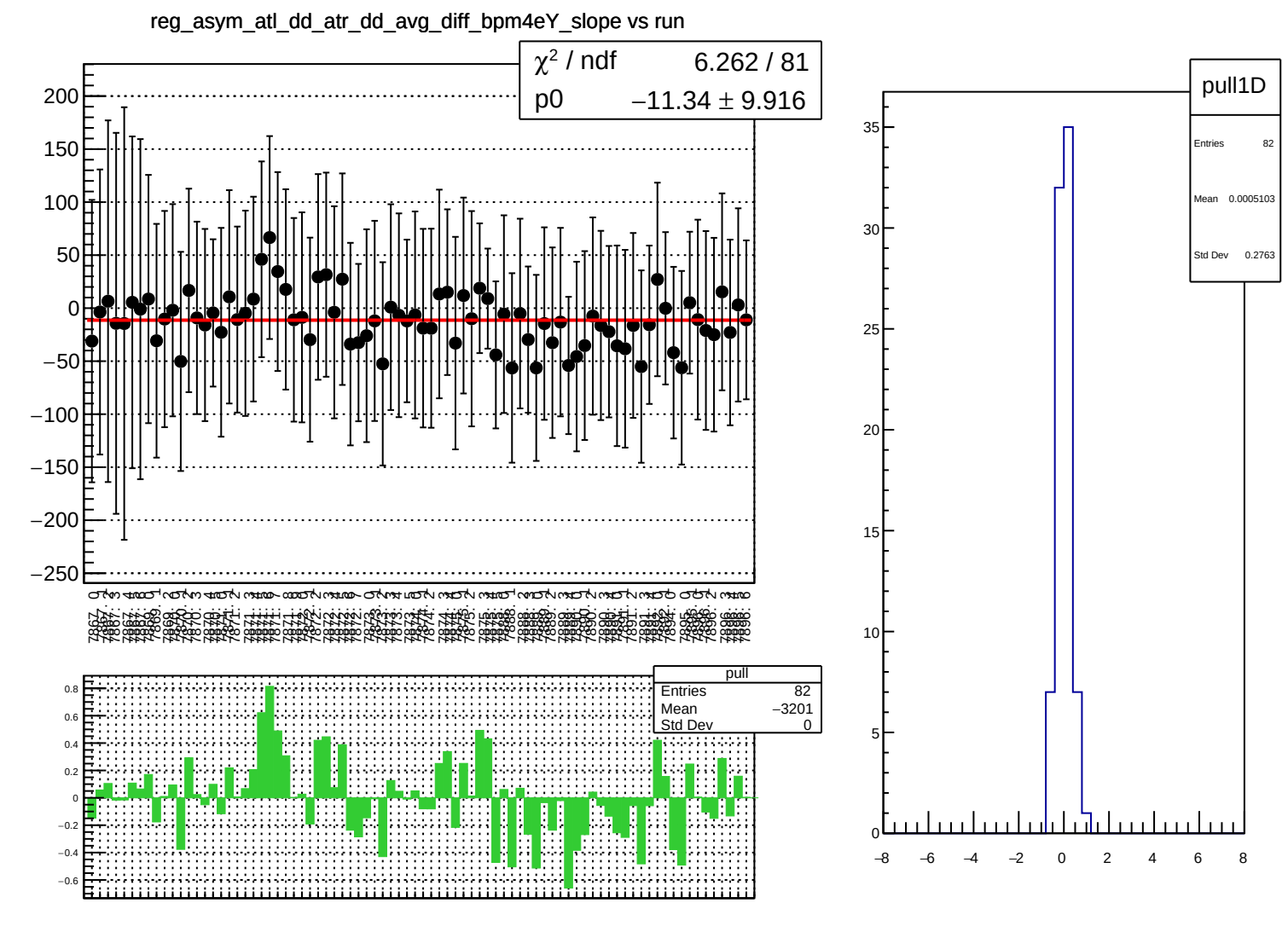

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.04 / 81
p0 −18.77 ± 7.682
pull
Entries 82
Mean −178.3
Std Dev 0
pull1D
Entries 82
Mean 0.01253
Std Dev 0.4557

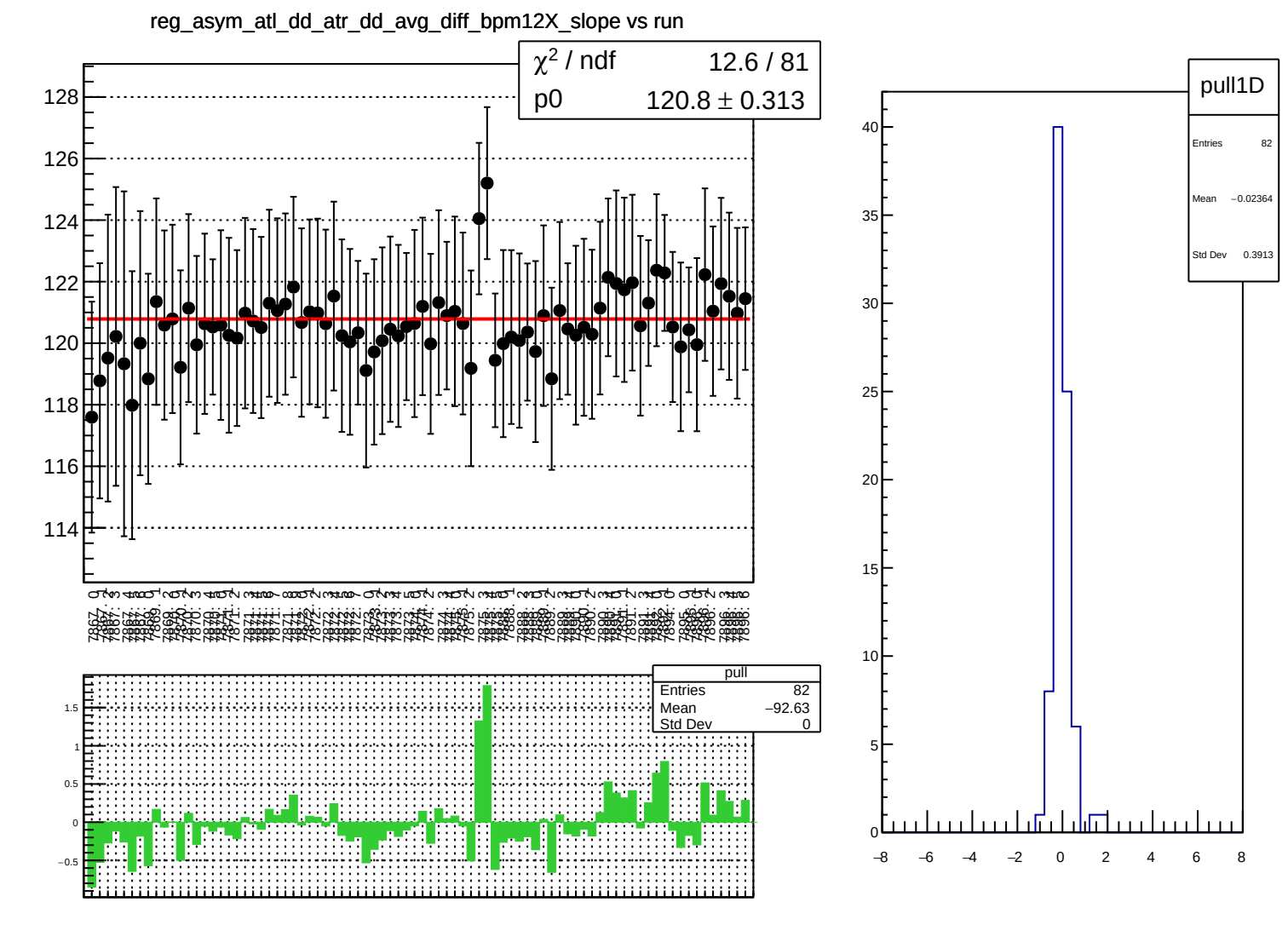

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 75.41 / 81
p0 94.75 ± 0.2418
pull
Entries 82
Mean −89.62
Std Dev 0
pull1D
Entries 82
Mean −0.05767
Std Dev 0.9572

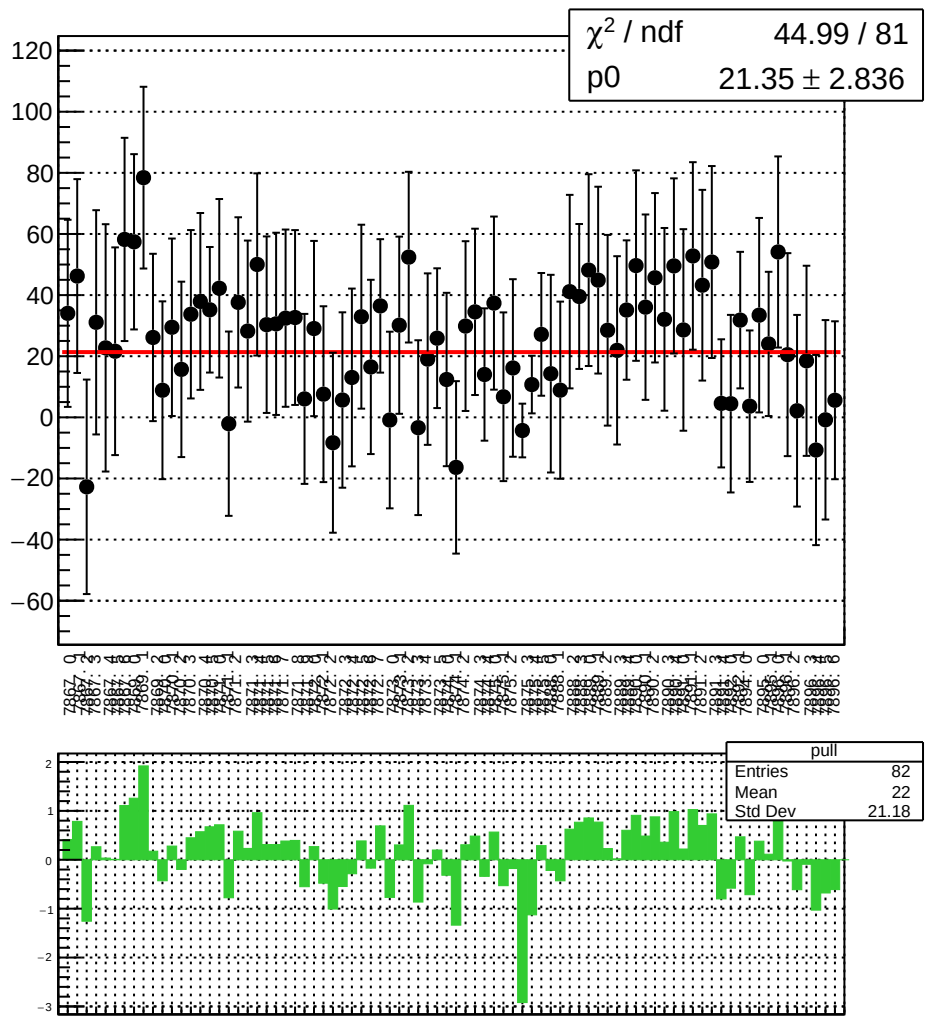

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 160.5 / 81
p0 139 ± 7.62
pull
Entries 82
Mean 44.53
Std Dev 27.91
pull1D
Entries 82
Mean −0.5873
Std Dev 0.8539

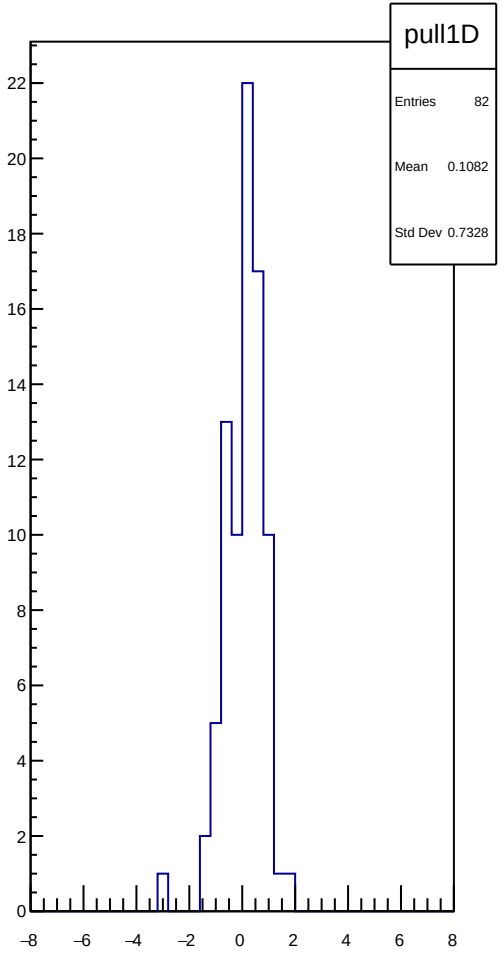

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.737 / 81
p0 −28.07 ± 8.517
pull
Entries 82
Mean 178.6
Std Dev 0
pull1D
Entries 82
Mean 0.007324
Std Dev 0.2865

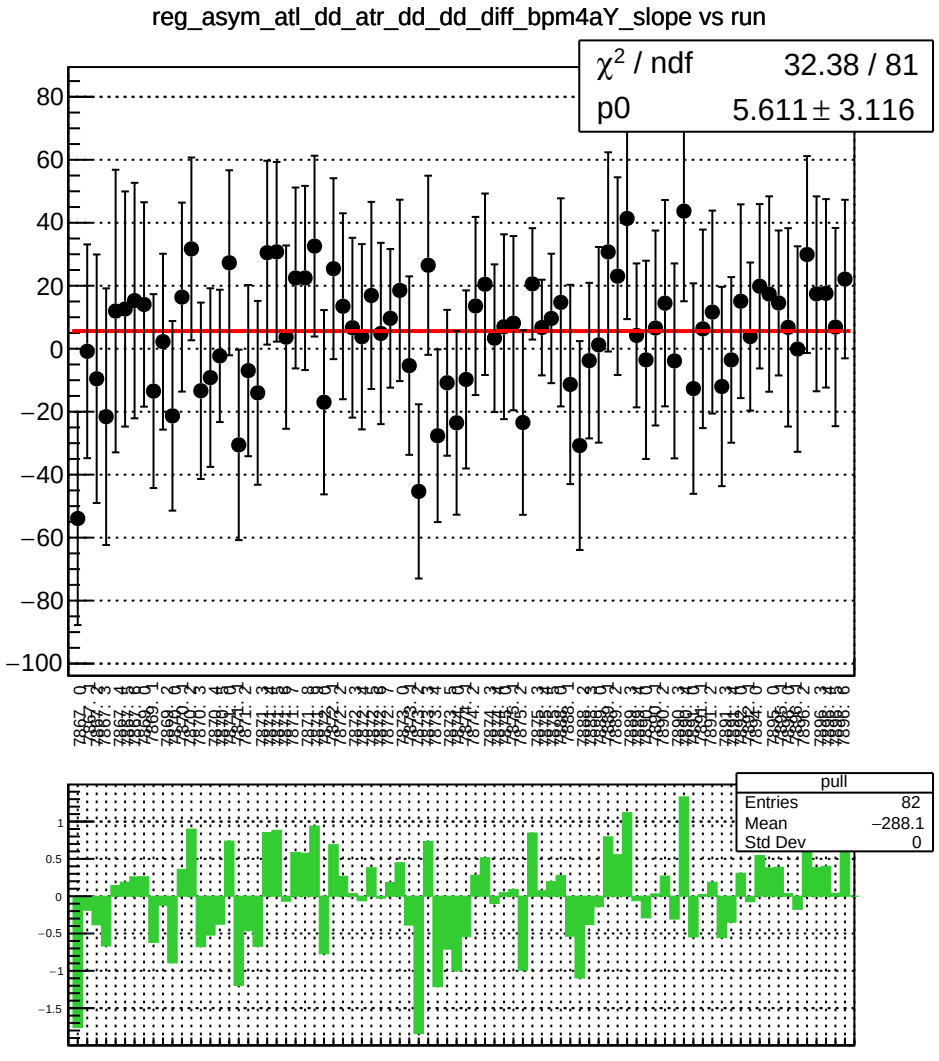

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 207.2 / 81
p0 −152.2 ± 6.4
pull
Entries 82
Mean 44.54
Std Dev 27.31
pull1D
Entries 82
Mean 0.7568
Std Dev 0.9066

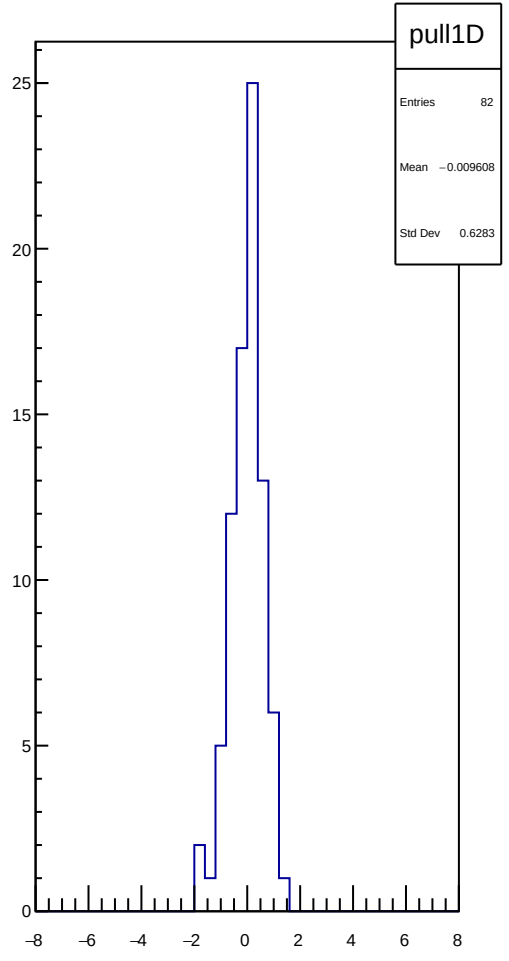

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.262 / 81
p0 −11.34 ± 9.916
pull
Entries 82
Mean −3201
Std Dev 0
pull1D
Entries 82
Mean 0.0005103
Std Dev 0.2763

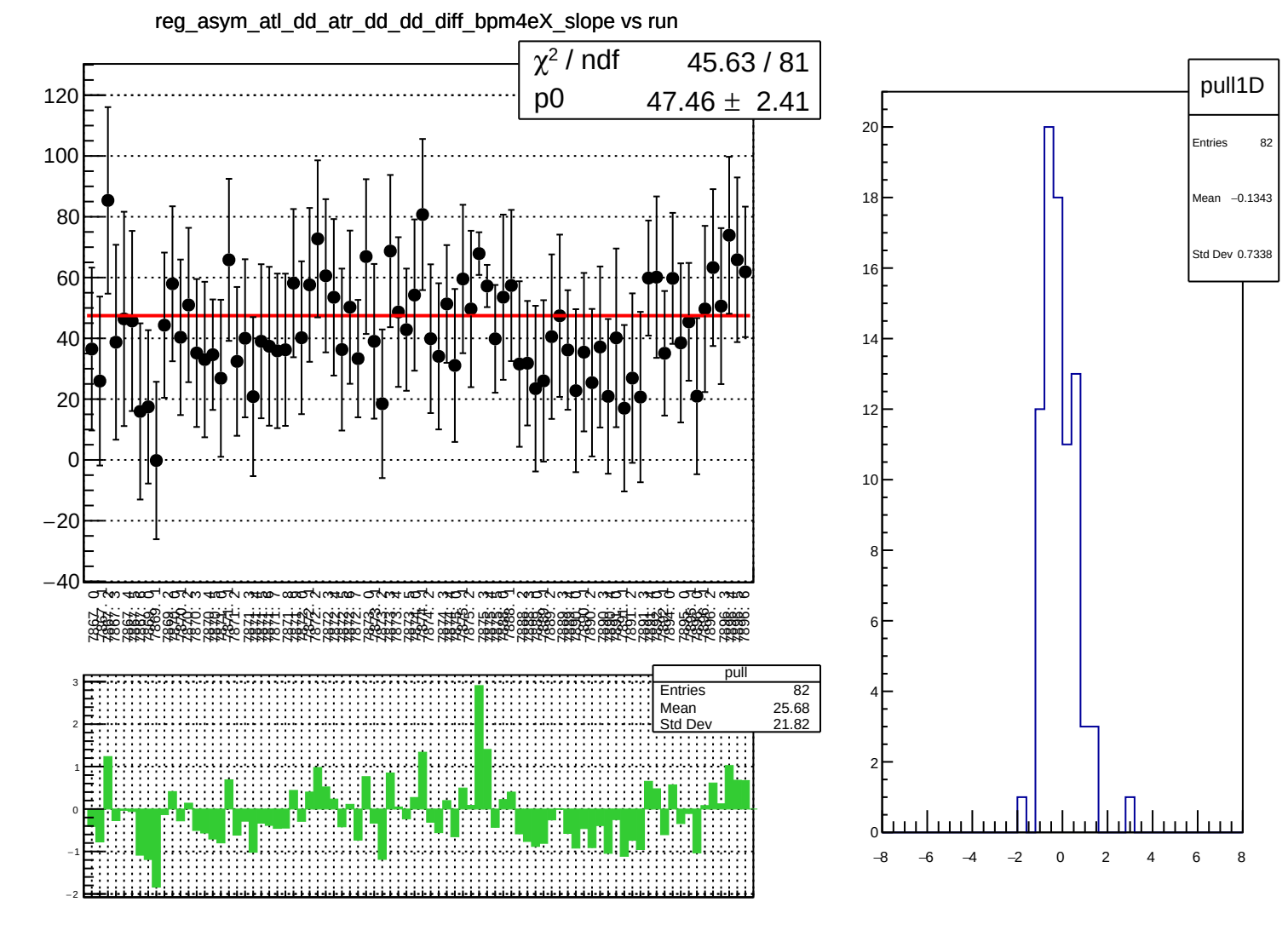

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ^2 / ndf 12.6 / 81
p0 120.8 ± 0.313
128
126
124
122
120
118
116
114
pull
Entries 82
Mean −92.63
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 82
Mean −0.02364
Std Dev 0.3913
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

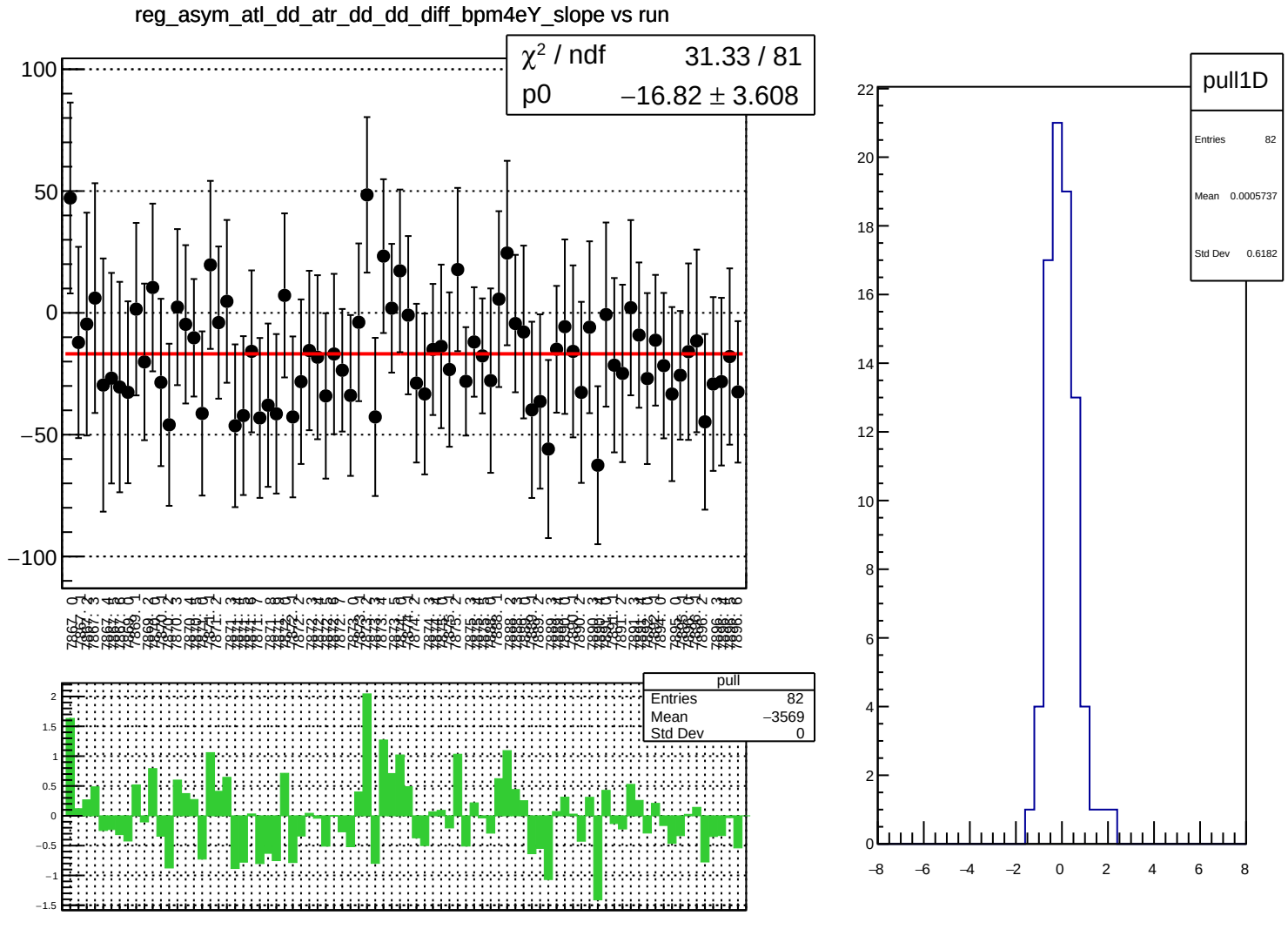

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 44.99 / 81
p0 21.35 ± 2.836
pull
Entries 82
Mean 22
Std Dev 21.18

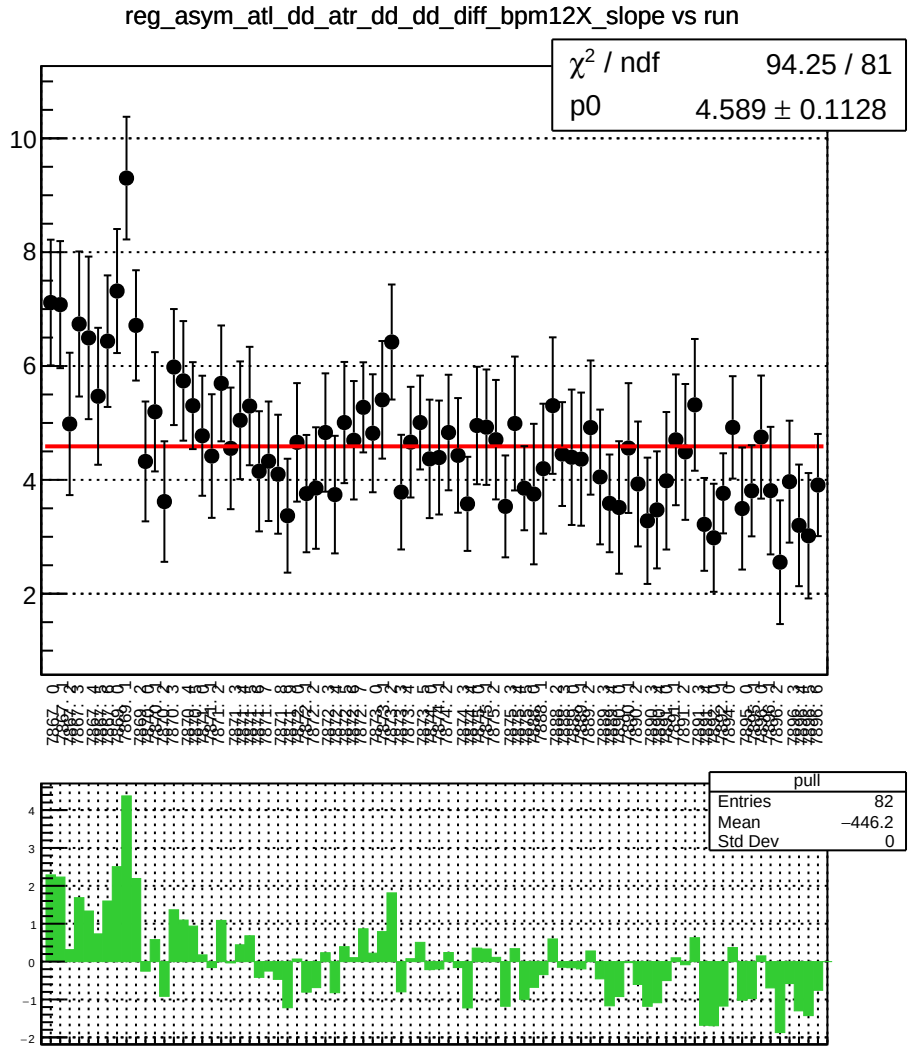

pull1D
Entries 82
Mean 0.1082
Std Dev 0.7328

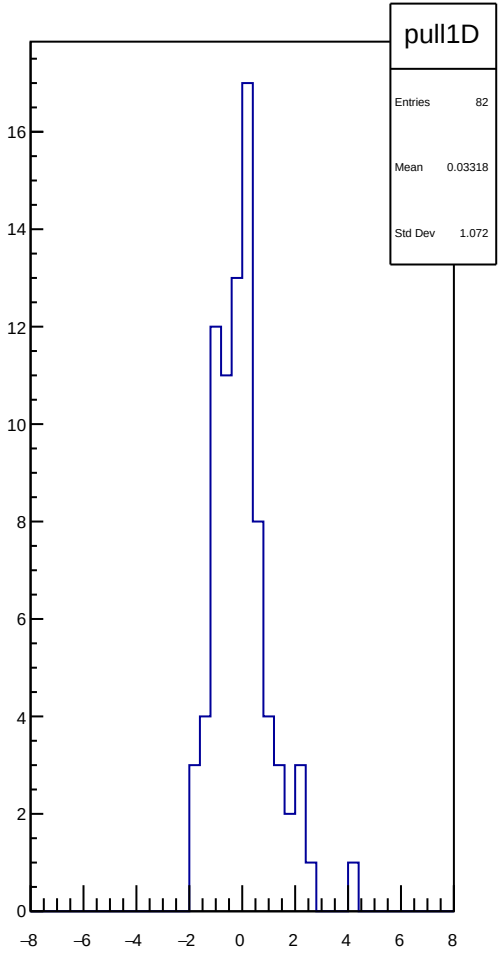

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.38 / 81
p0 5.611 ± 3.116
pull
Entries 82
Mean −288.1
Std Dev 0

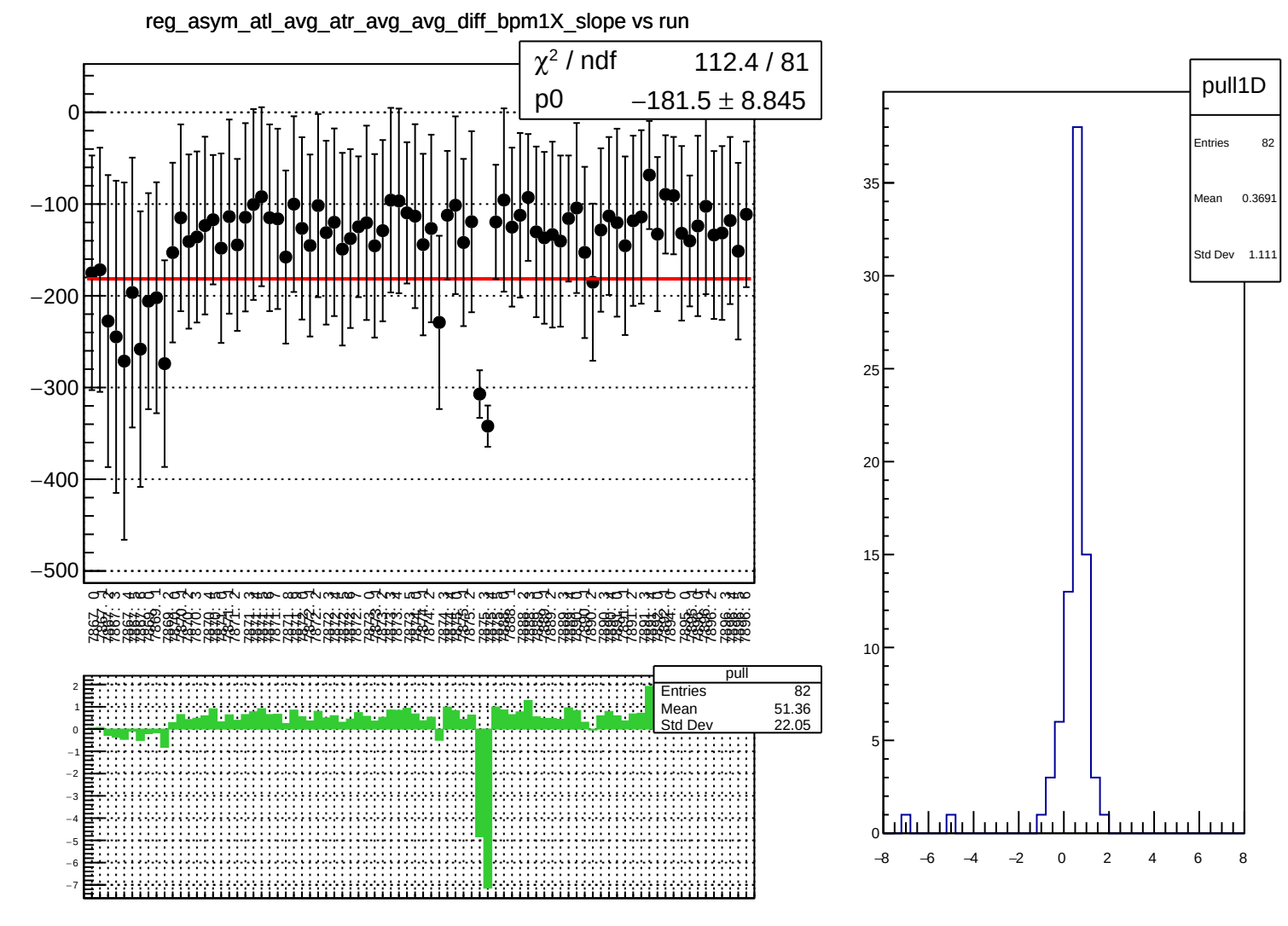

pull1D
Entries 82
Mean −0.009608
Std Dev 0.6283

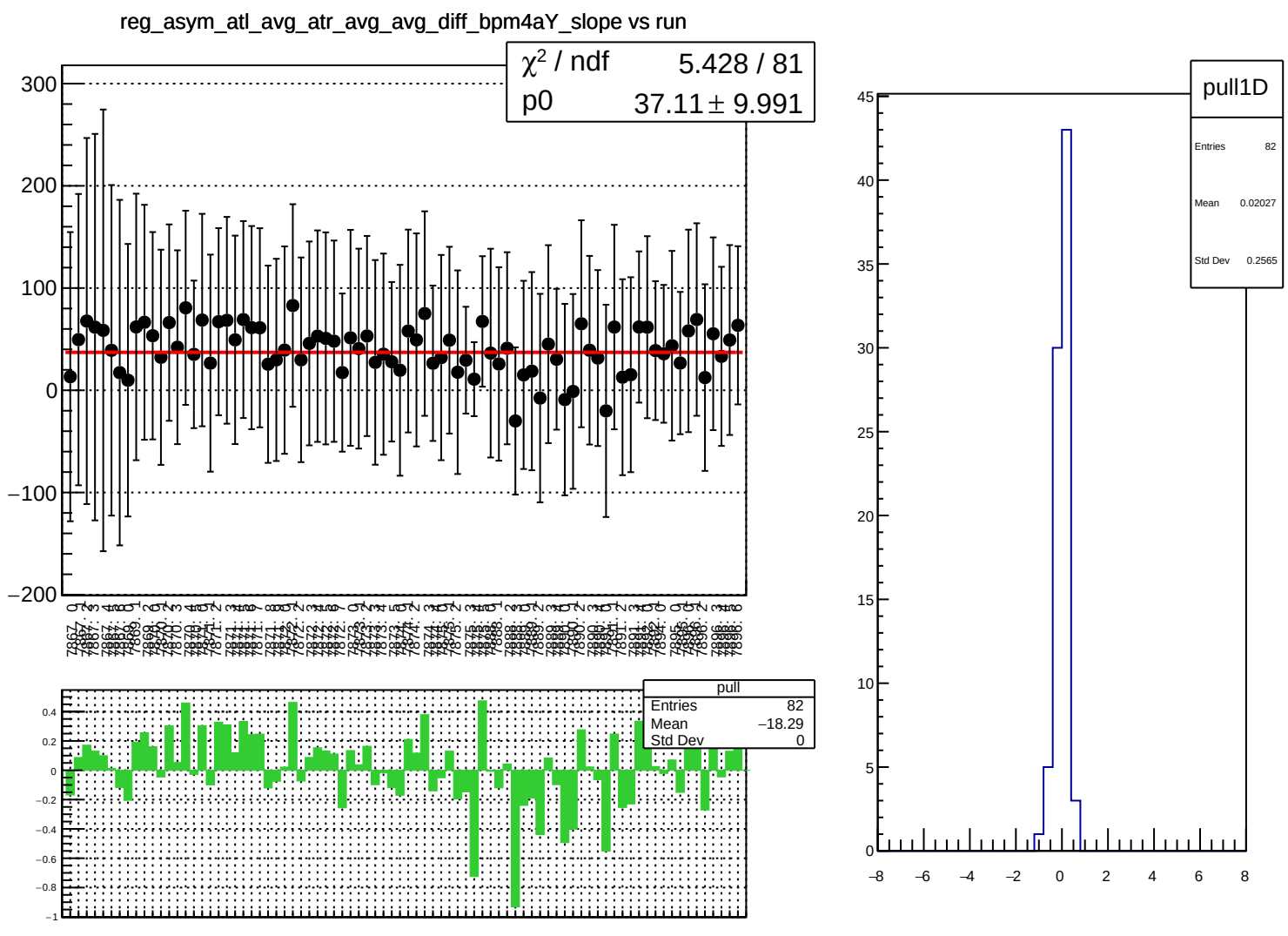

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.63 / 81
p0 47.46 ± 2.41
pull
Entries 82
Mean 25.68
Std Dev 21.82
pull1D
Entries 82
Mean −0.1343
Std Dev 0.7338

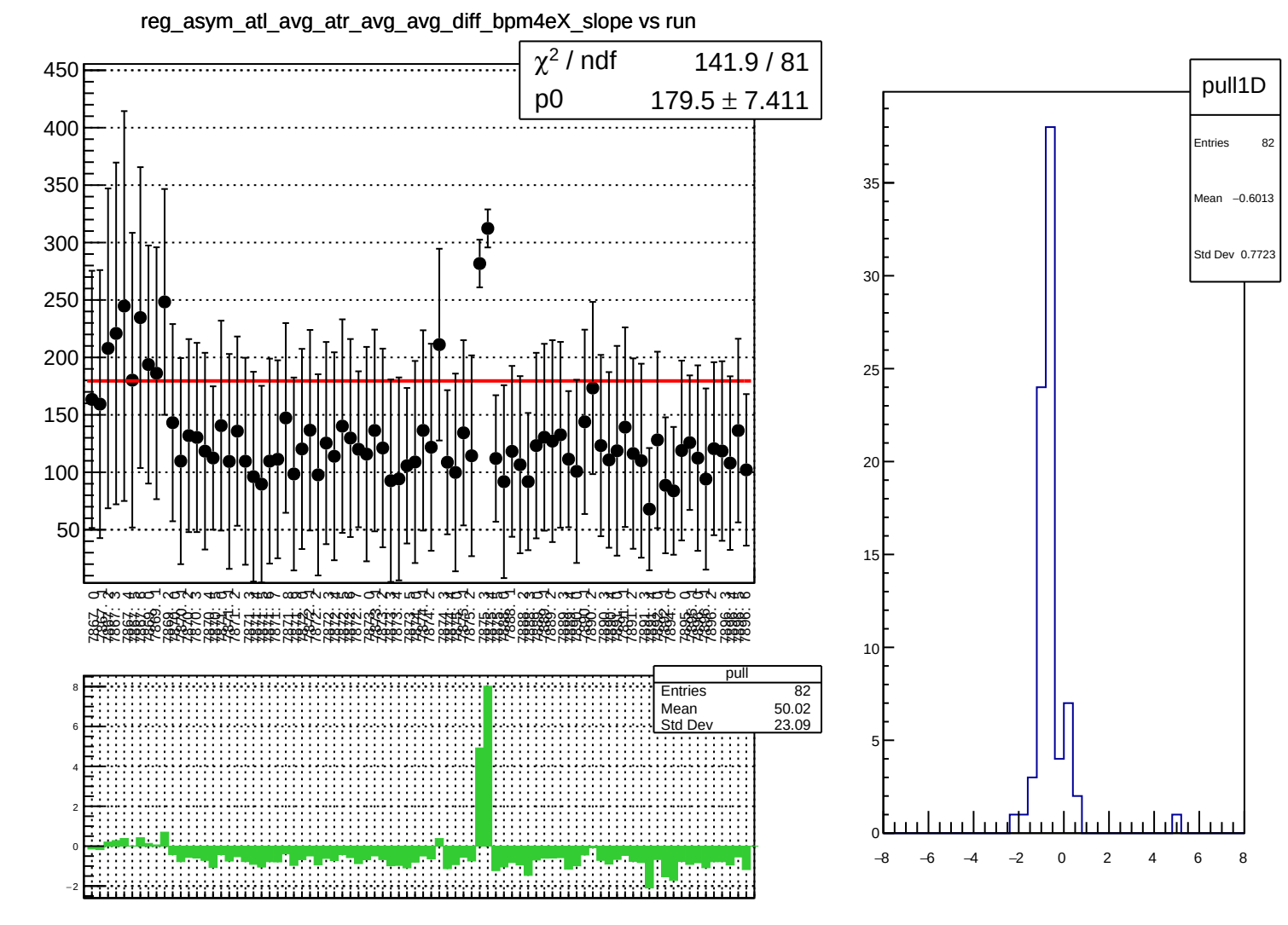

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.33 / 81
p0 −16.82 ± 3.608
pull
Entries 82
Mean −3569
Std Dev 0
pull1D
Entries 82
Mean 0.0005737
Std Dev 0.6182

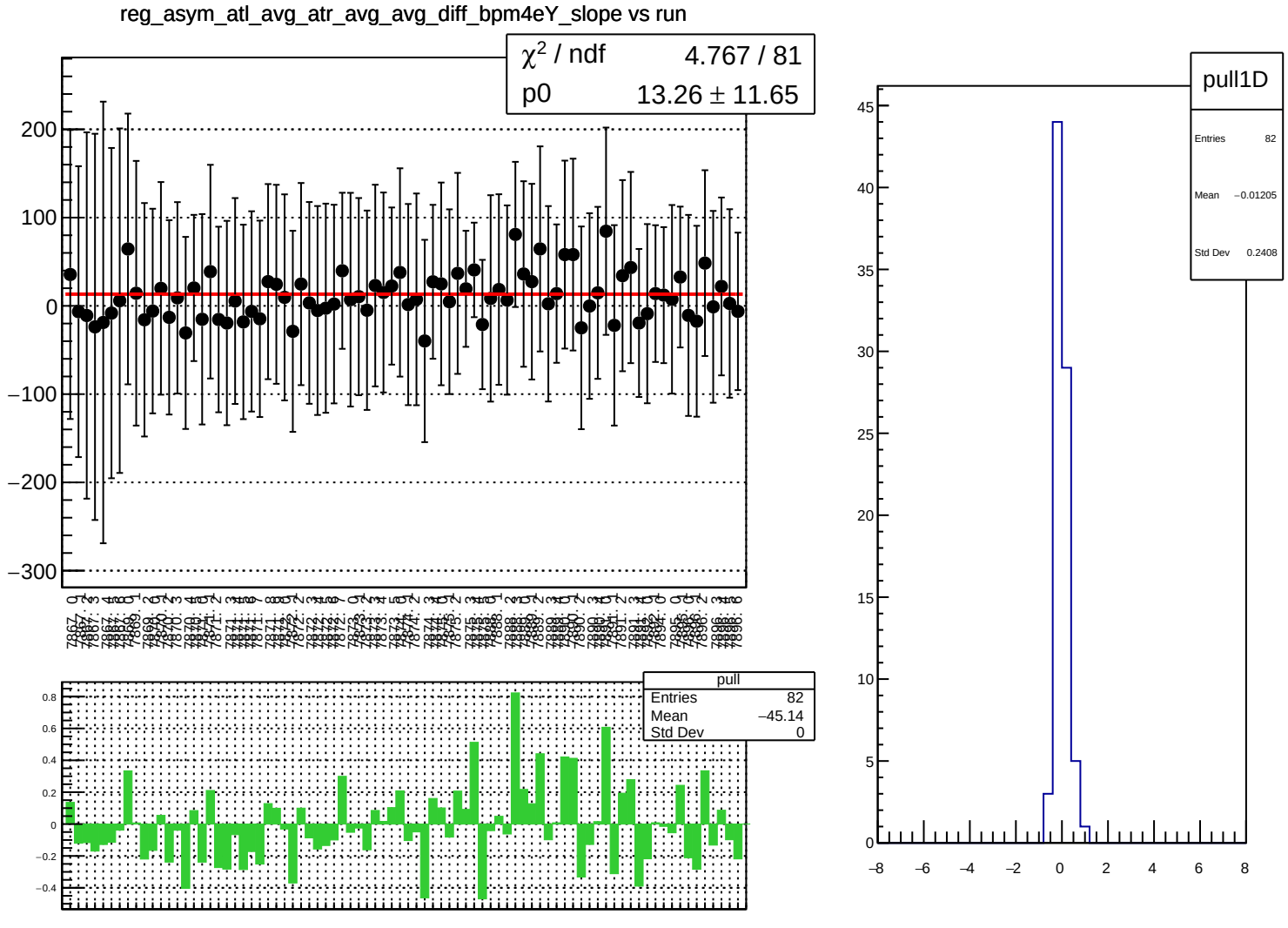

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 94.25 / 81
p0 4.589 ± 0.1128
pull
Entries 82
Mean −446.2
Std Dev 0

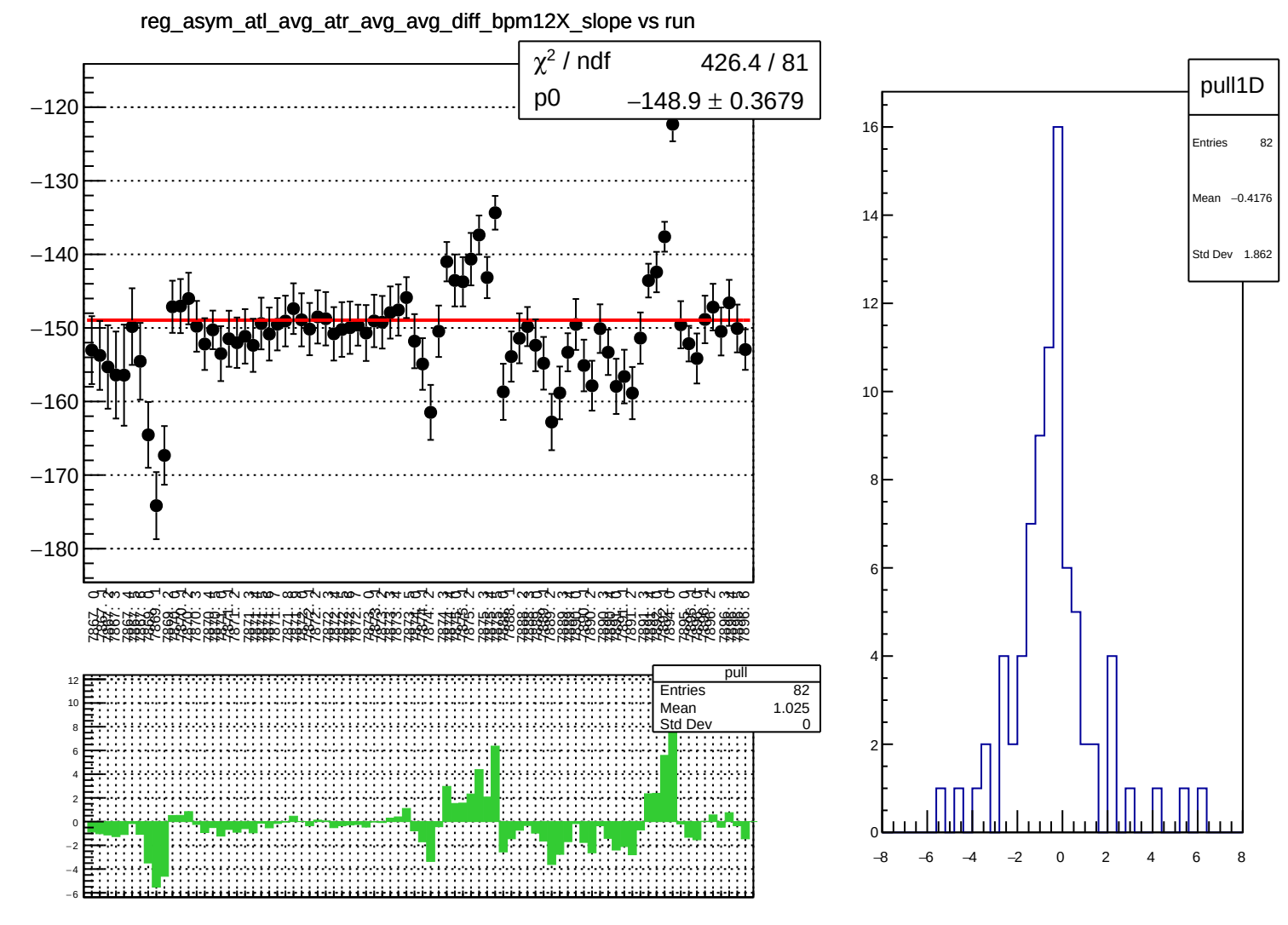

pull1D
Entries 82
Mean 0.03318
Std Dev 1.072

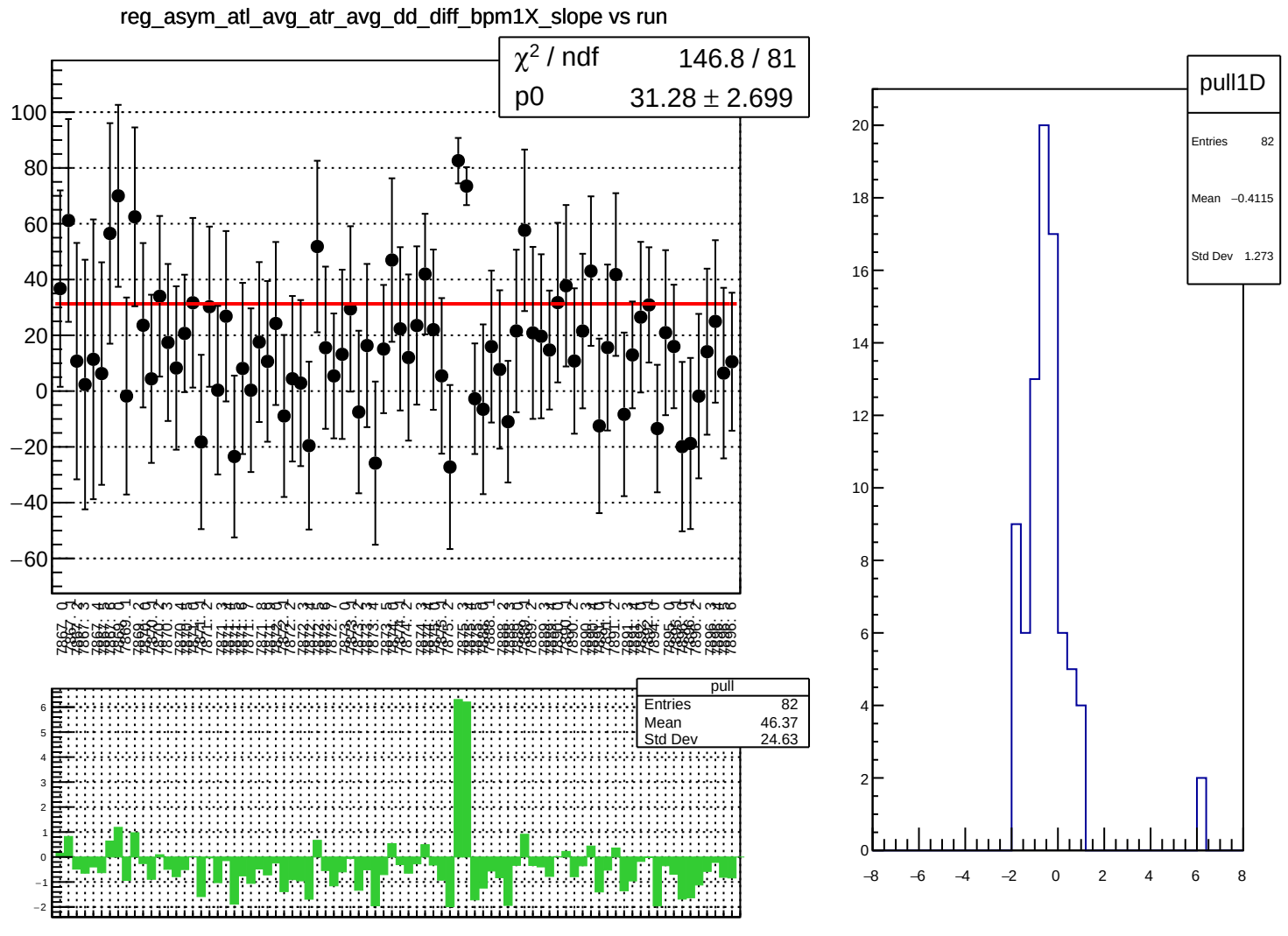

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 112.4 / 81
p0 −181.5 ± 8.845
pull
Entries 82
Mean 51.36
Std Dev 22.05
pull1D
Entries 82
Mean 0.3691
Std Dev 1.111

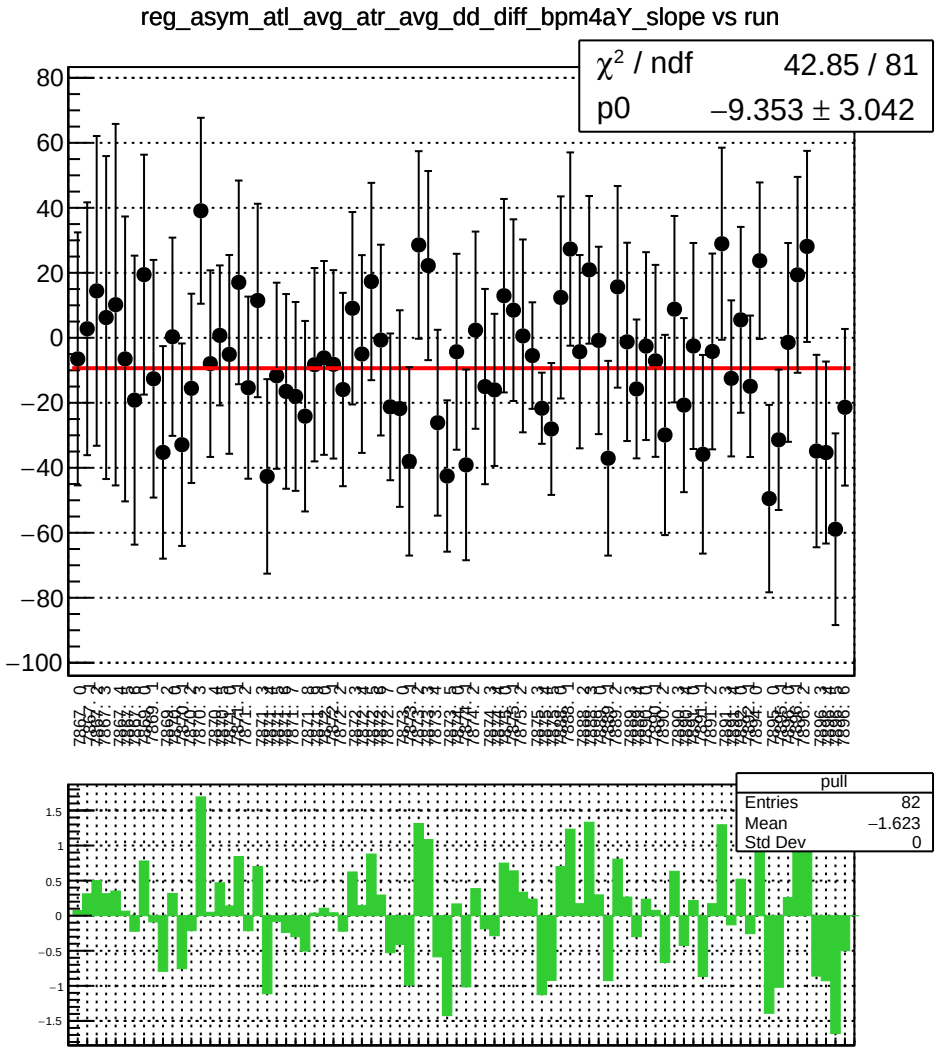

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.428 / 81
p0 37.11 ± 9.991
pull
Entries 82
Mean −18.29
Std Dev 0
pull1D
Entries 82
Mean 0.02027
Std Dev 0.2565

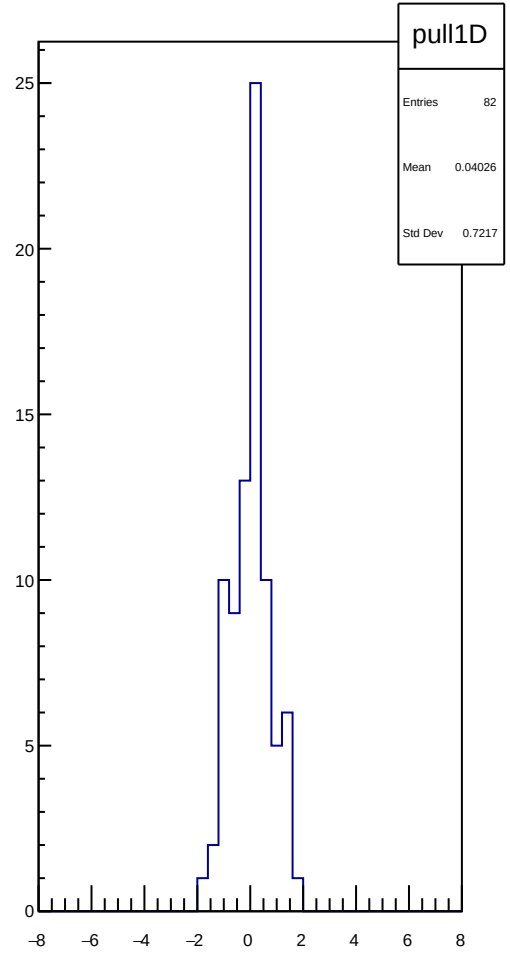

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 141.9 / 81
p0 179.5 ± 7.411
pull
Entries 82
Mean 50.02
Std Dev 23.09
pull1D
Entries 82
Mean −0.6013
Std Dev 0.7723

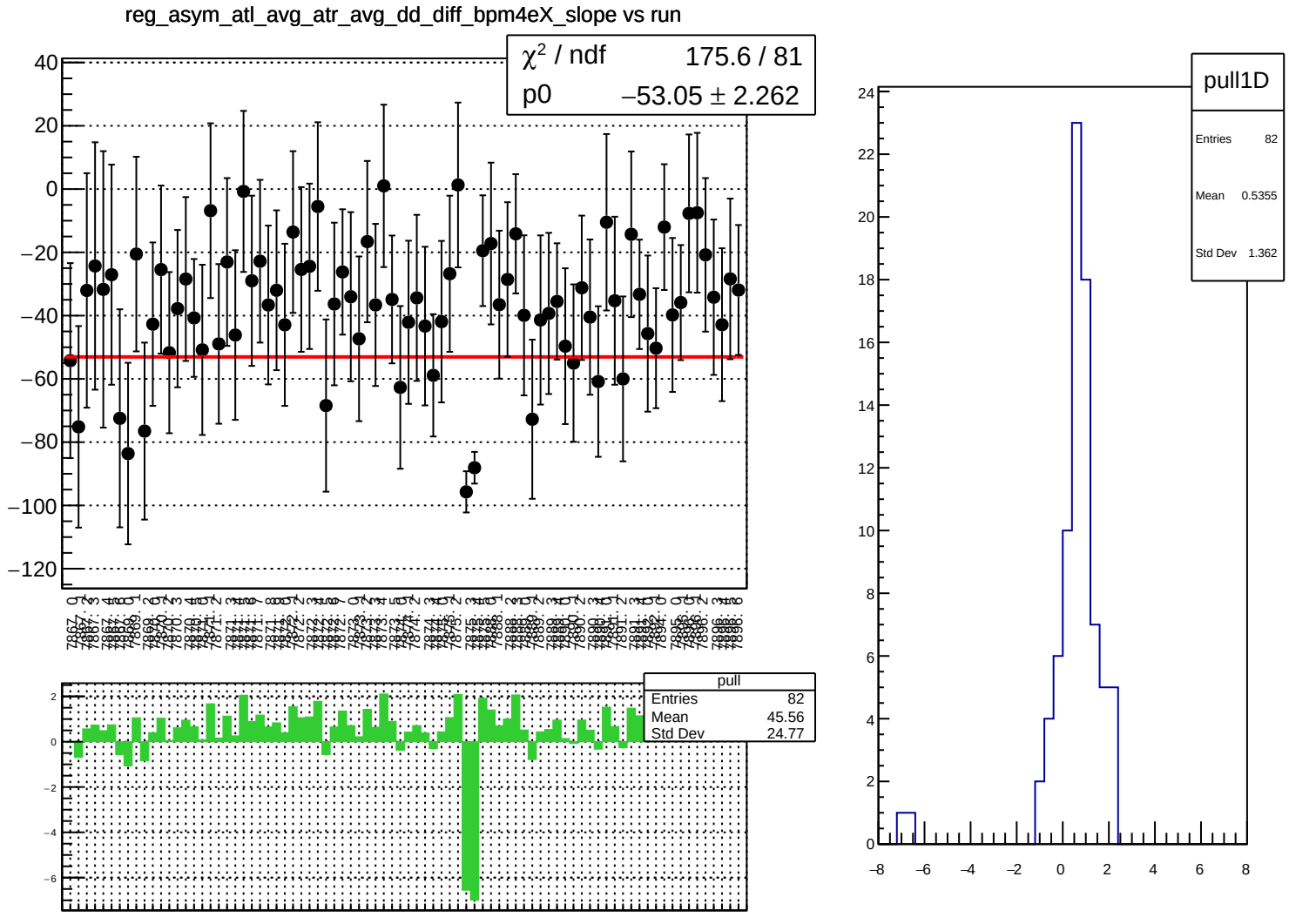

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.767 / 81
p0 13.26 ± 11.65
200
100
0
−100
−200
−300
pull
Entries 82
Mean −45.14
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 82
Mean −0.01205
Std Dev 0.2408
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

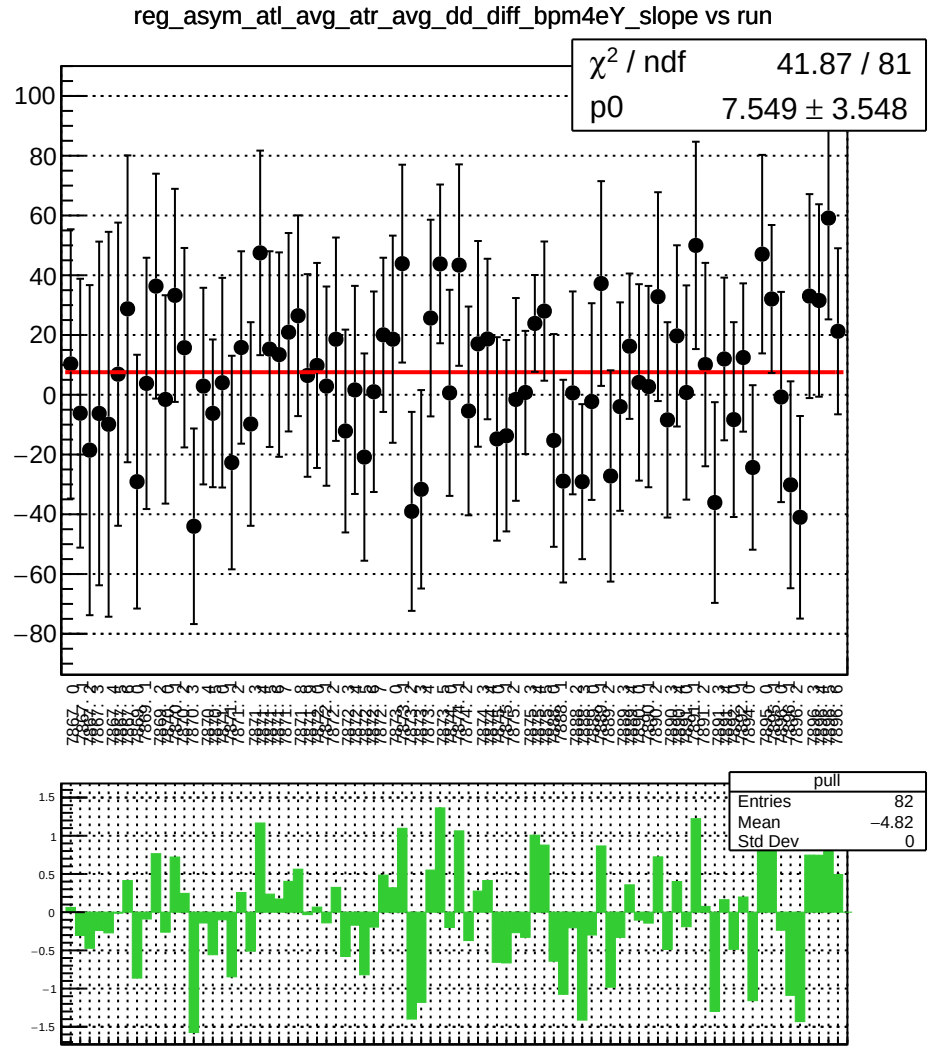

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 426.4 / 81
p0 −148.9 ± 0.3679
pull
Entries 82
Mean 1.025
Std Dev 0
pull1D
Entries 82
Mean −0.4176
Std Dev 1.862

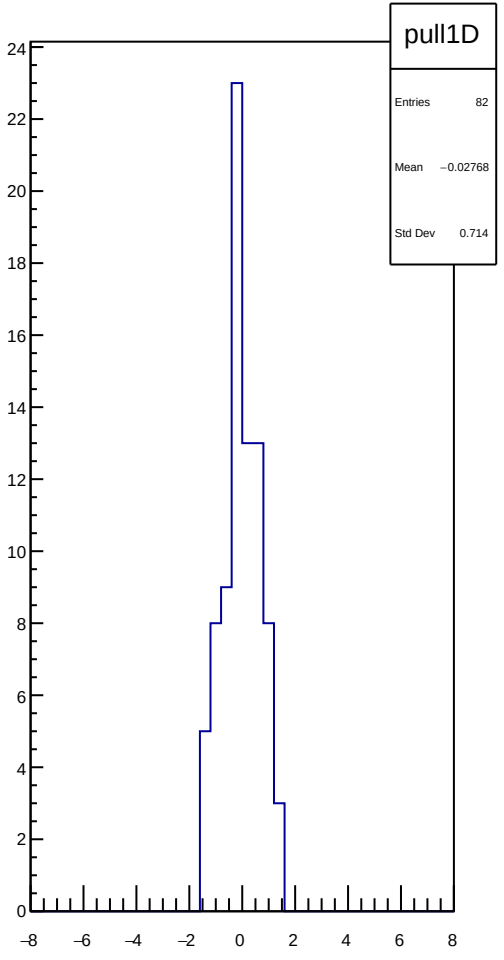

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 146.8 / 81
p0 31.28 ± 2.699
pull
Entries 82
Mean 46.37
Std Dev 24.63
pull1D
Entries 82
Mean −0.4115
Std Dev 1.273

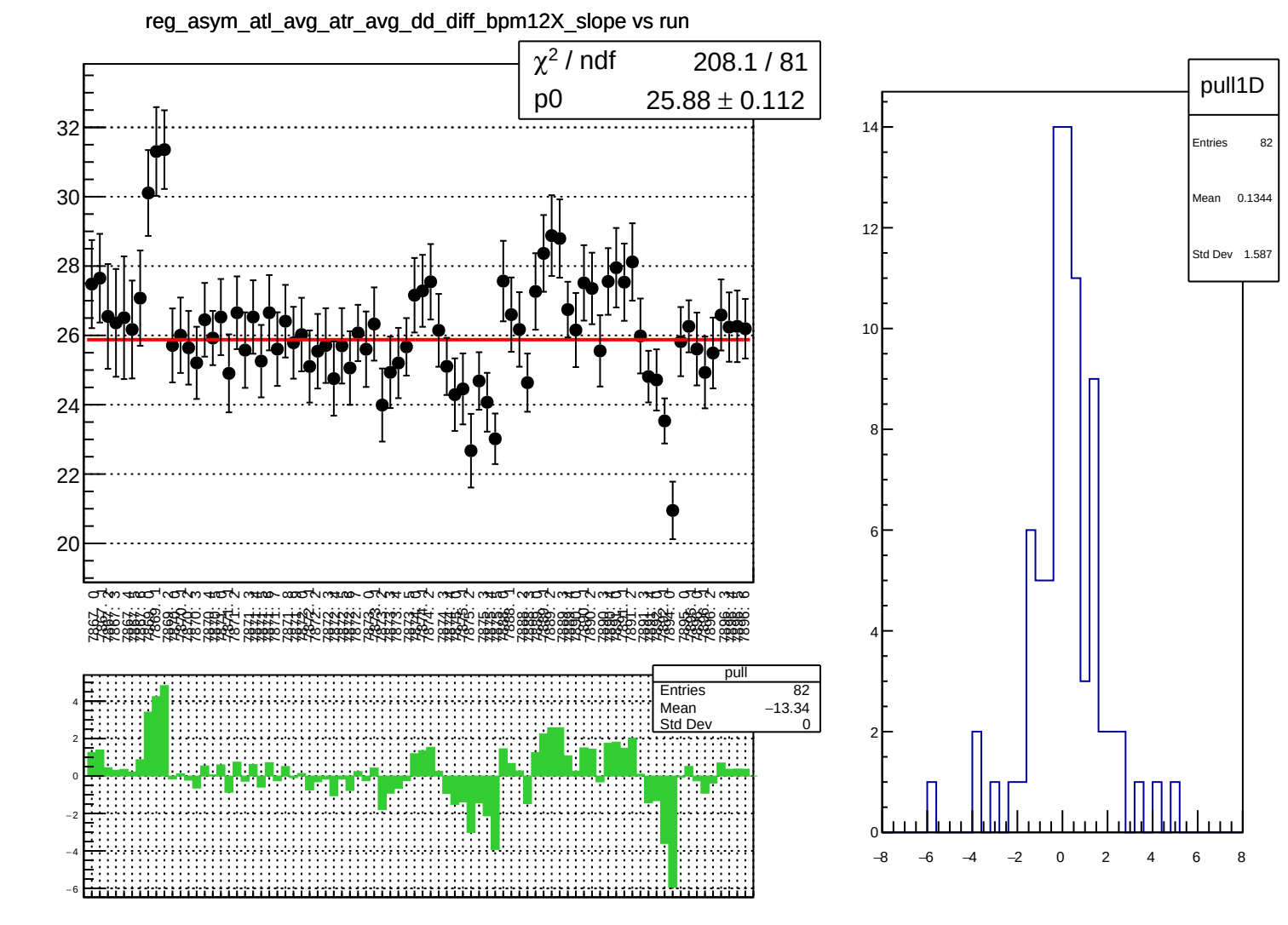

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.85 / 81
p0 −9.353 ± 3.042
pull
Entries 82
Mean −1.623
Std Dev 0

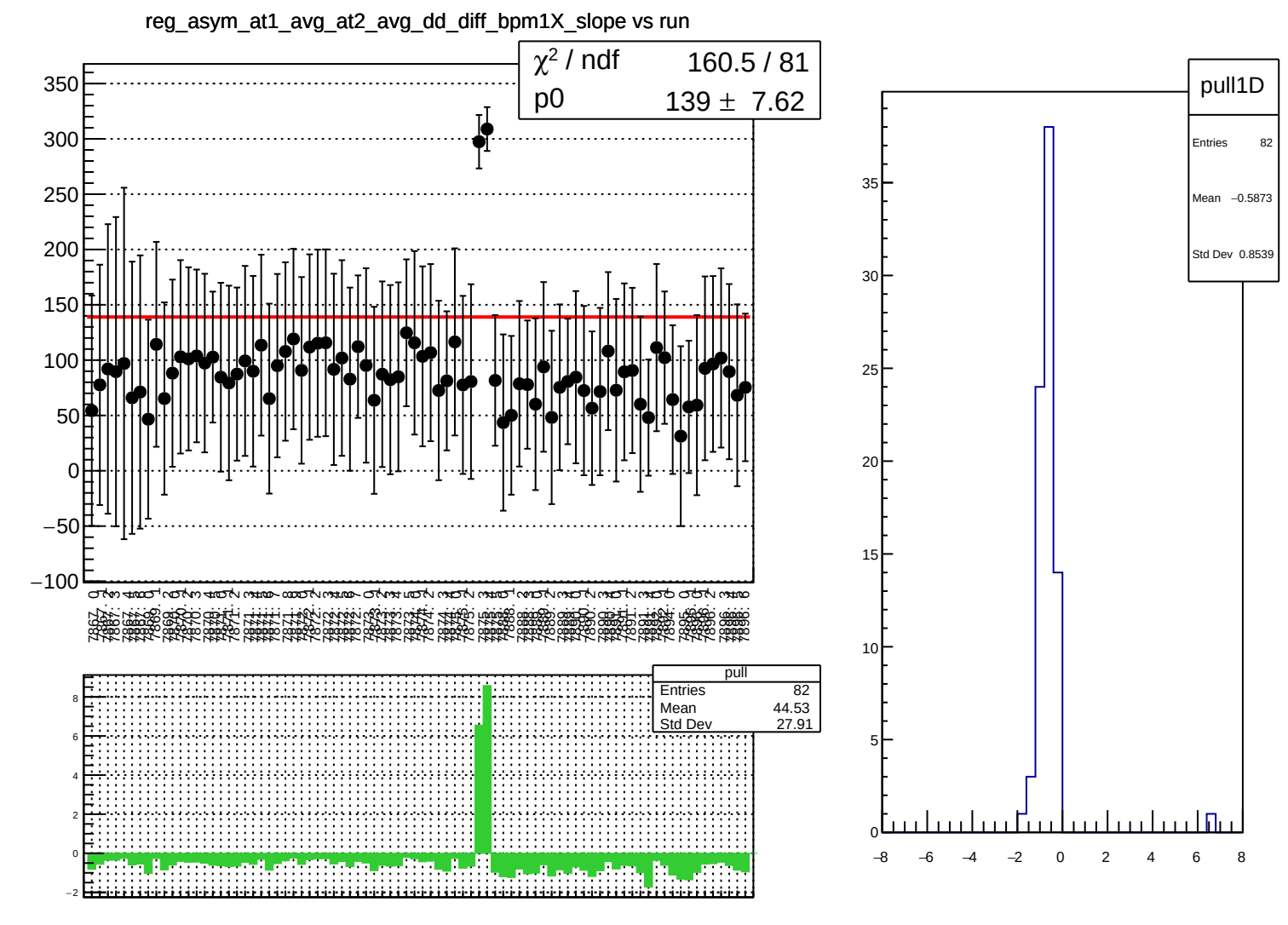

pull1D
Entries 82
Mean 0.04026
Std Dev 0.7217

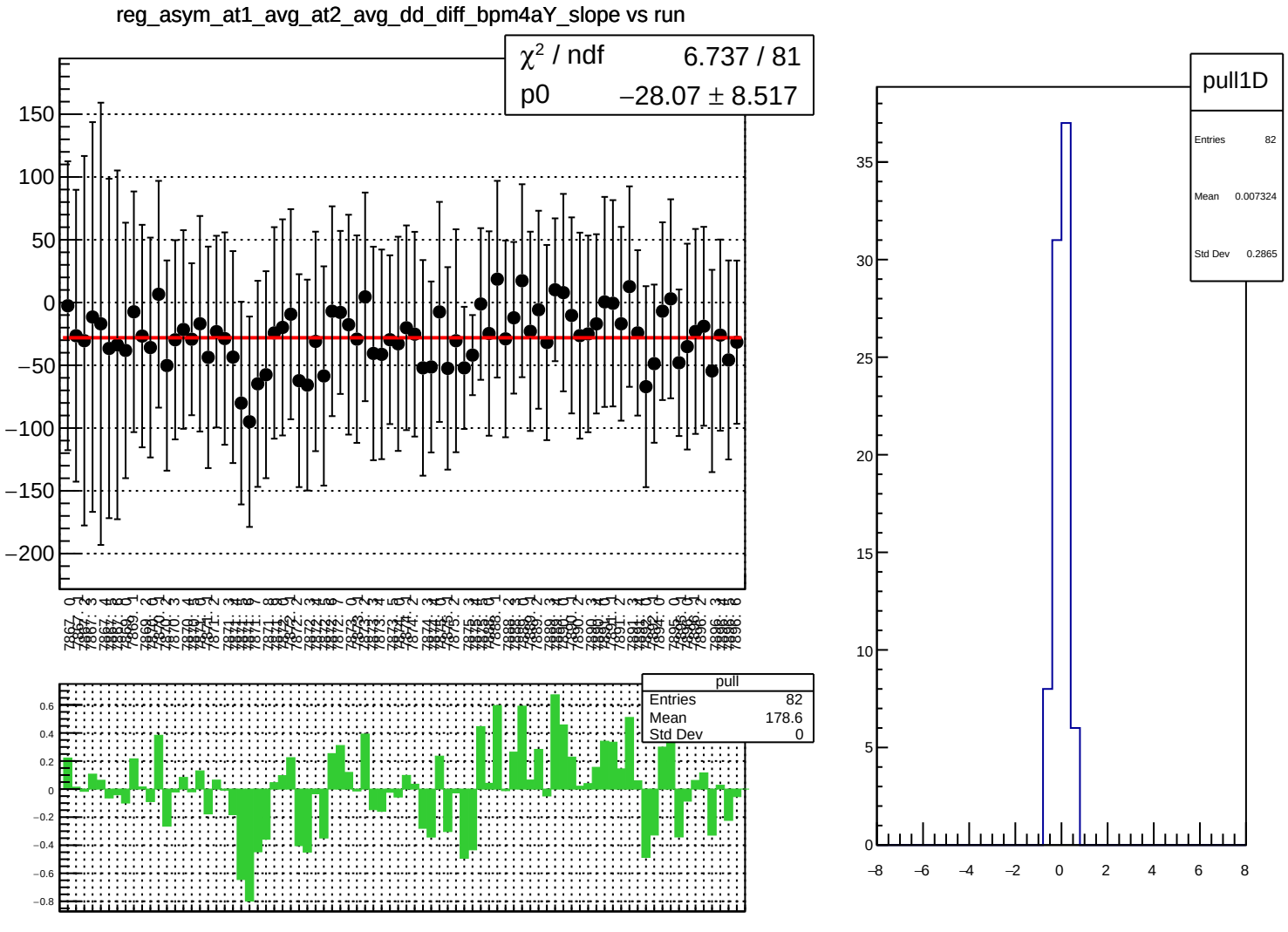

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 175.6 / 81
p0 −53.05 ± 2.262
pull
Entries 82
Mean 45.56
Std Dev 24.77
pull1D
Entries 82
Mean 0.5355
Std Dev 1.362

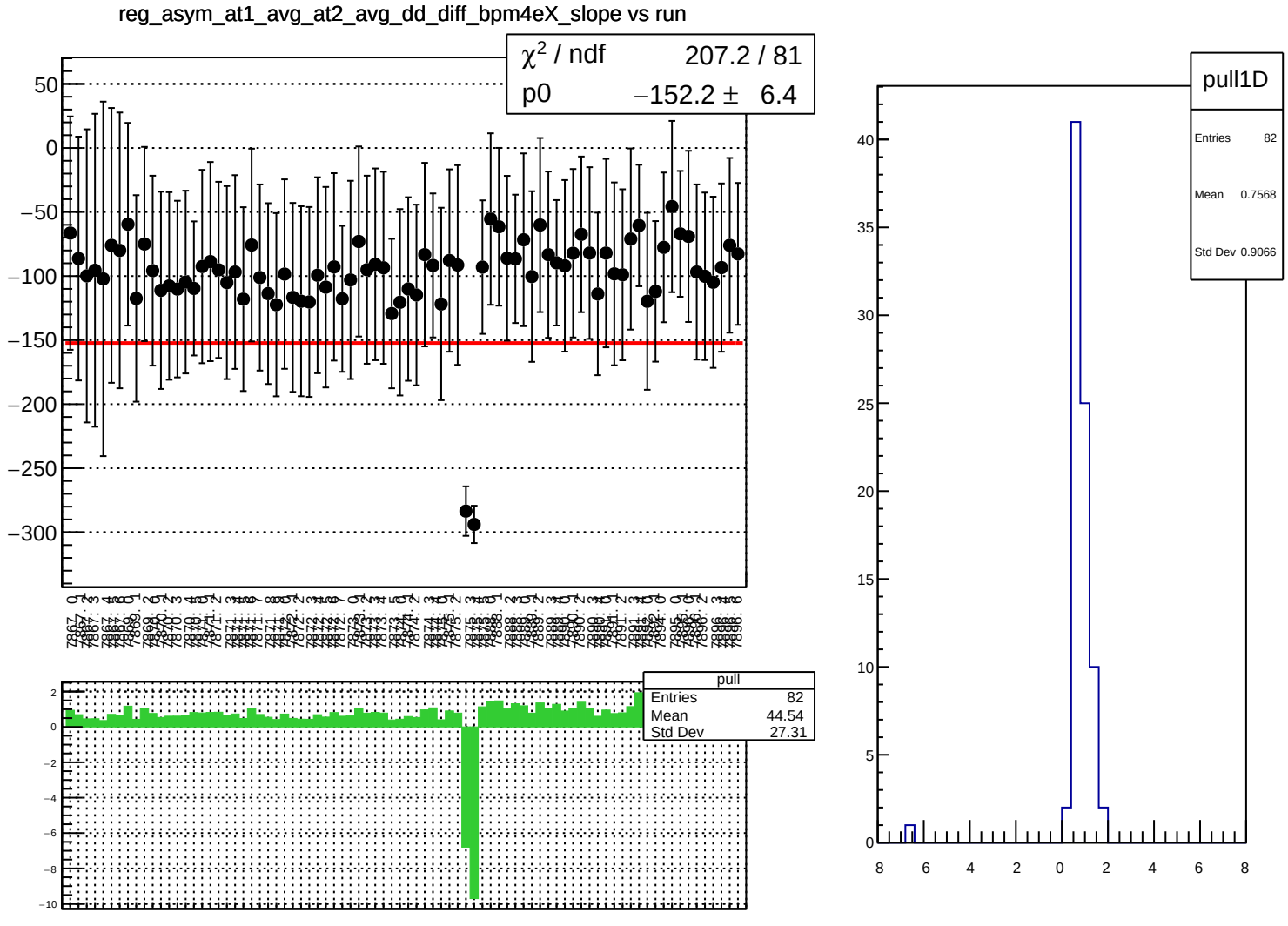

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.87 / 81
p0 7.549 ± 3.548
pull
Entries 82
Mean −4.82
Std Dev 0

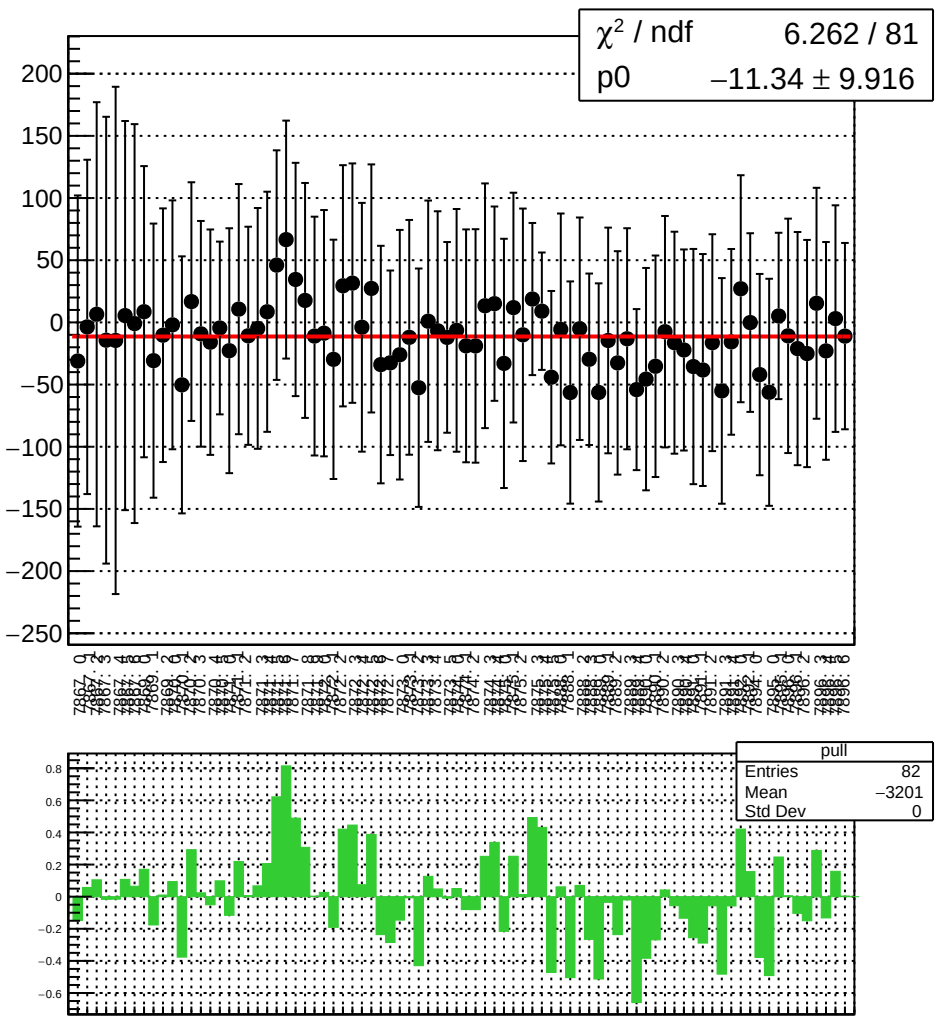

pull1D
Entries 82
Mean −0.02768
Std Dev 0.714

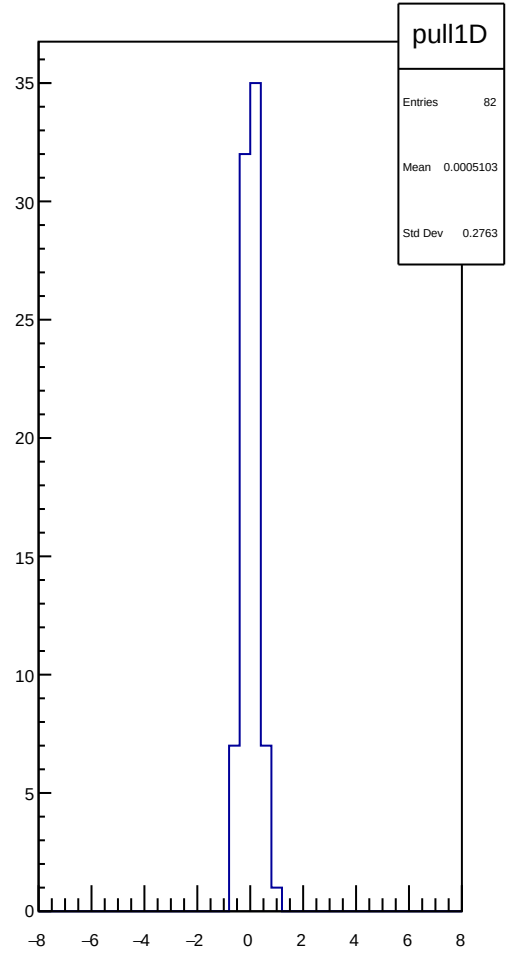

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 208.1 / 81
p0 25.88 ± 0.112
pull
Entries 82
Mean −13.34
Std Dev 0
pull1D
Entries 82
Mean 0.1344
Std Dev 1.587

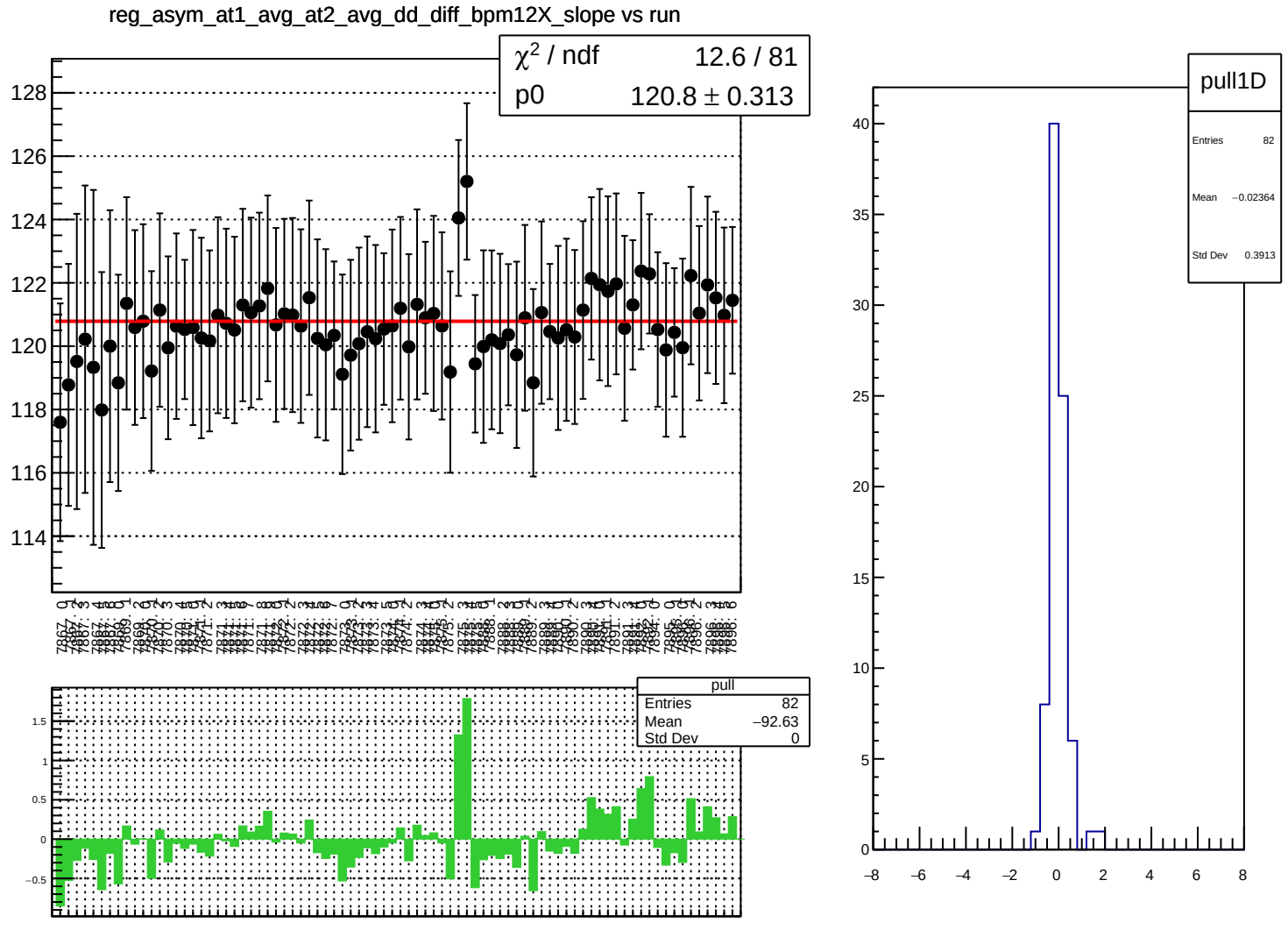

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 160.5 / 81
p0 139 ± 7.62
pull
Entries 82
Mean 44.53
Std Dev 27.91
pull1D
Entries 82
Mean −0.5873
Std Dev 0.8539

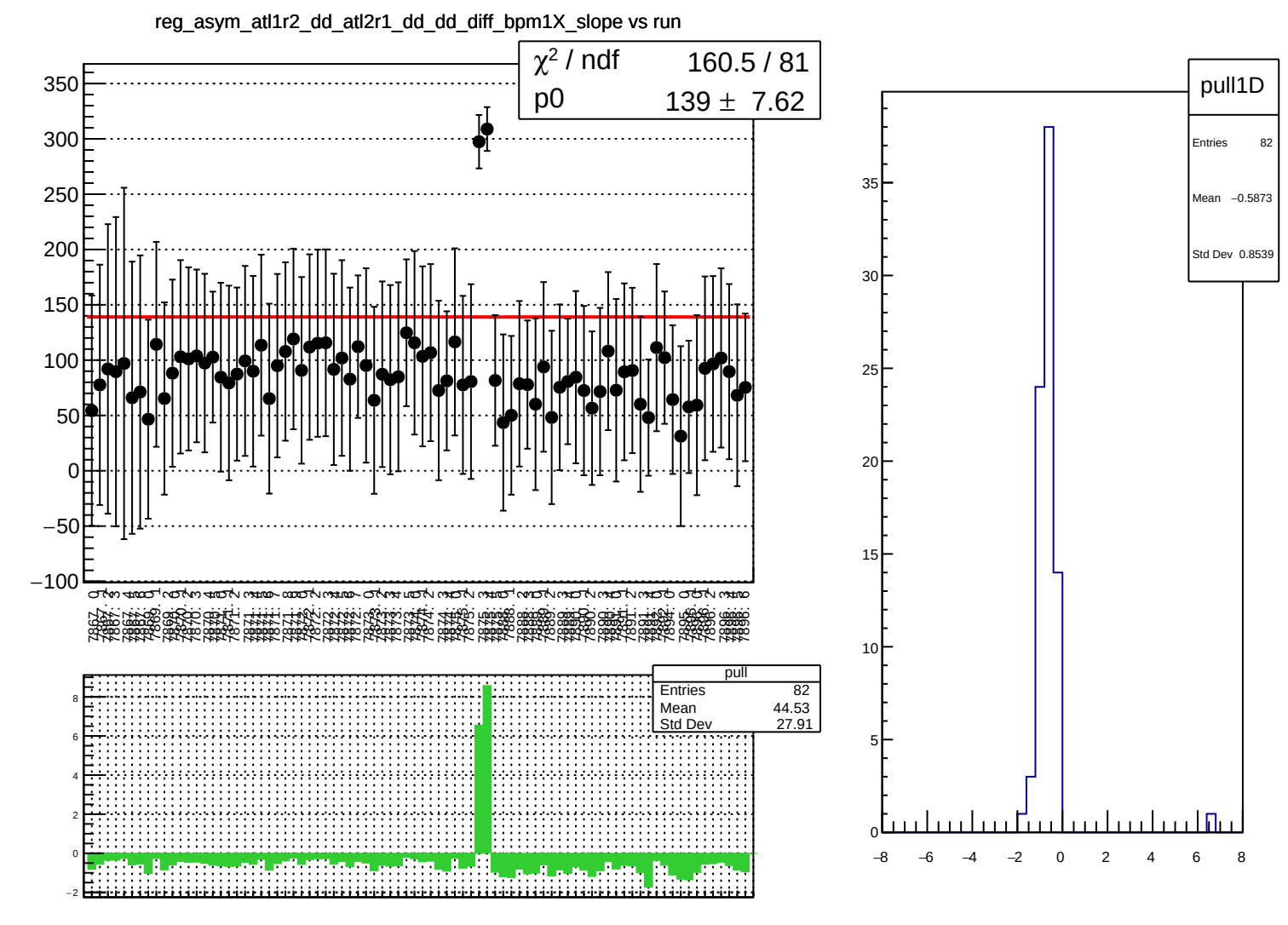

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.737 / 81
p0 −28.07 ± 8.517
pull
Entries 82
Mean 178.6
Std Dev 0
pull1D
Entries 82
Mean 0.007324
Std Dev 0.2865

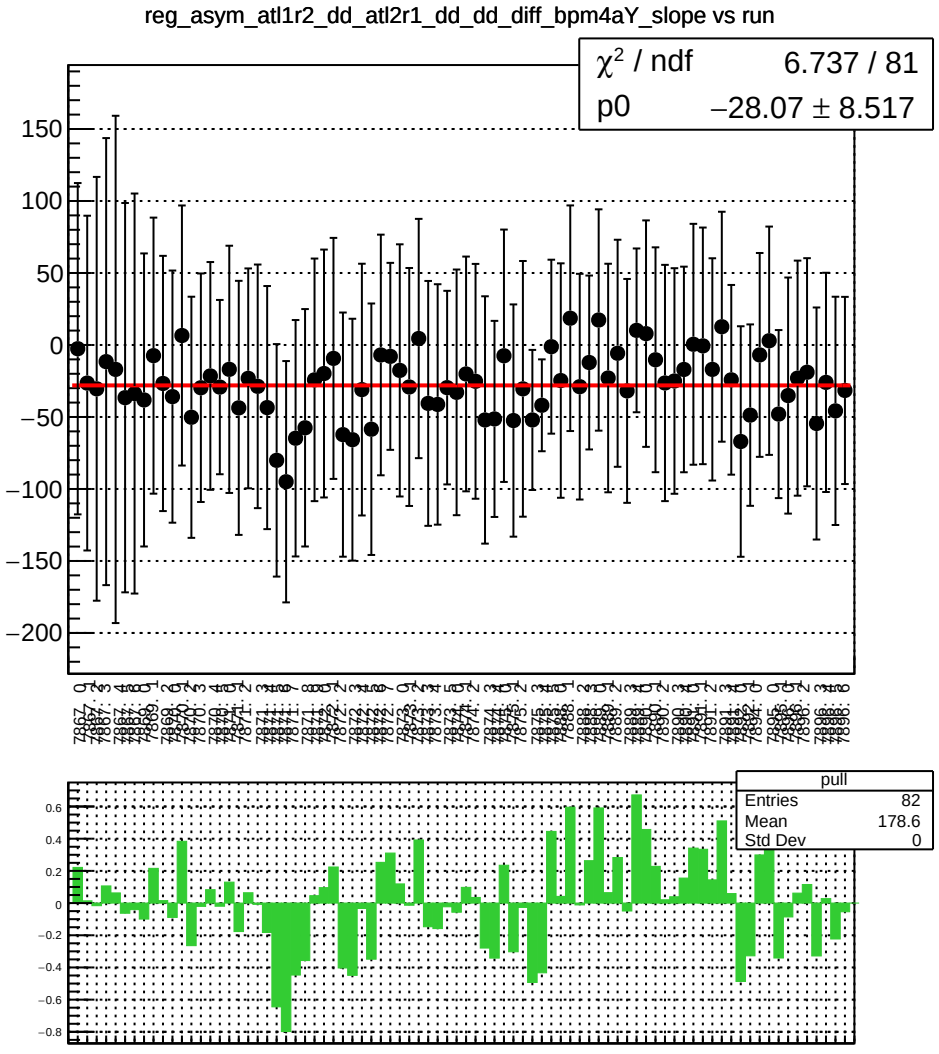

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 207.2 / 81
p0 −152.2 ± 6.4
pull
Entries 82
Mean 44.54
Std Dev 27.31
pull1D
Entries 82
Mean 0.7568
Std Dev 0.9066

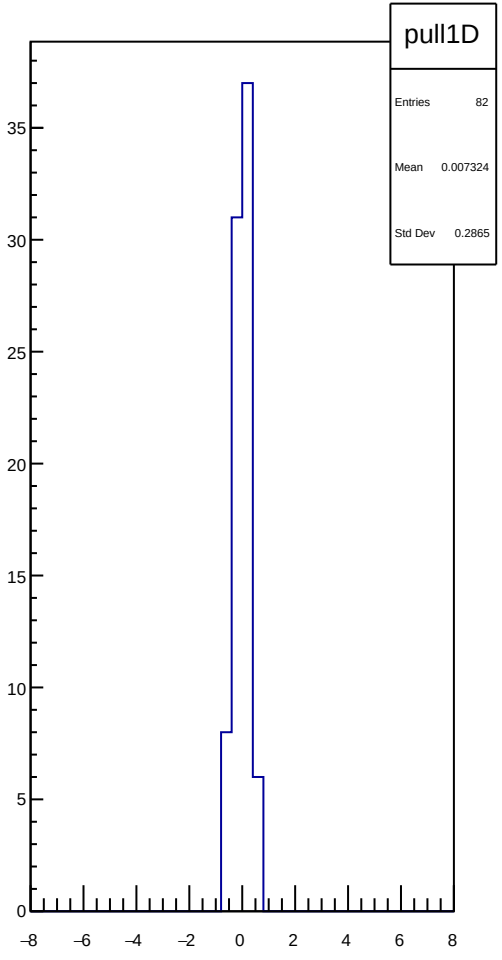

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.262 / 81
p0 −11.34 ± 9.916
pull
Entries 82
Mean −3201
Std Dev 0

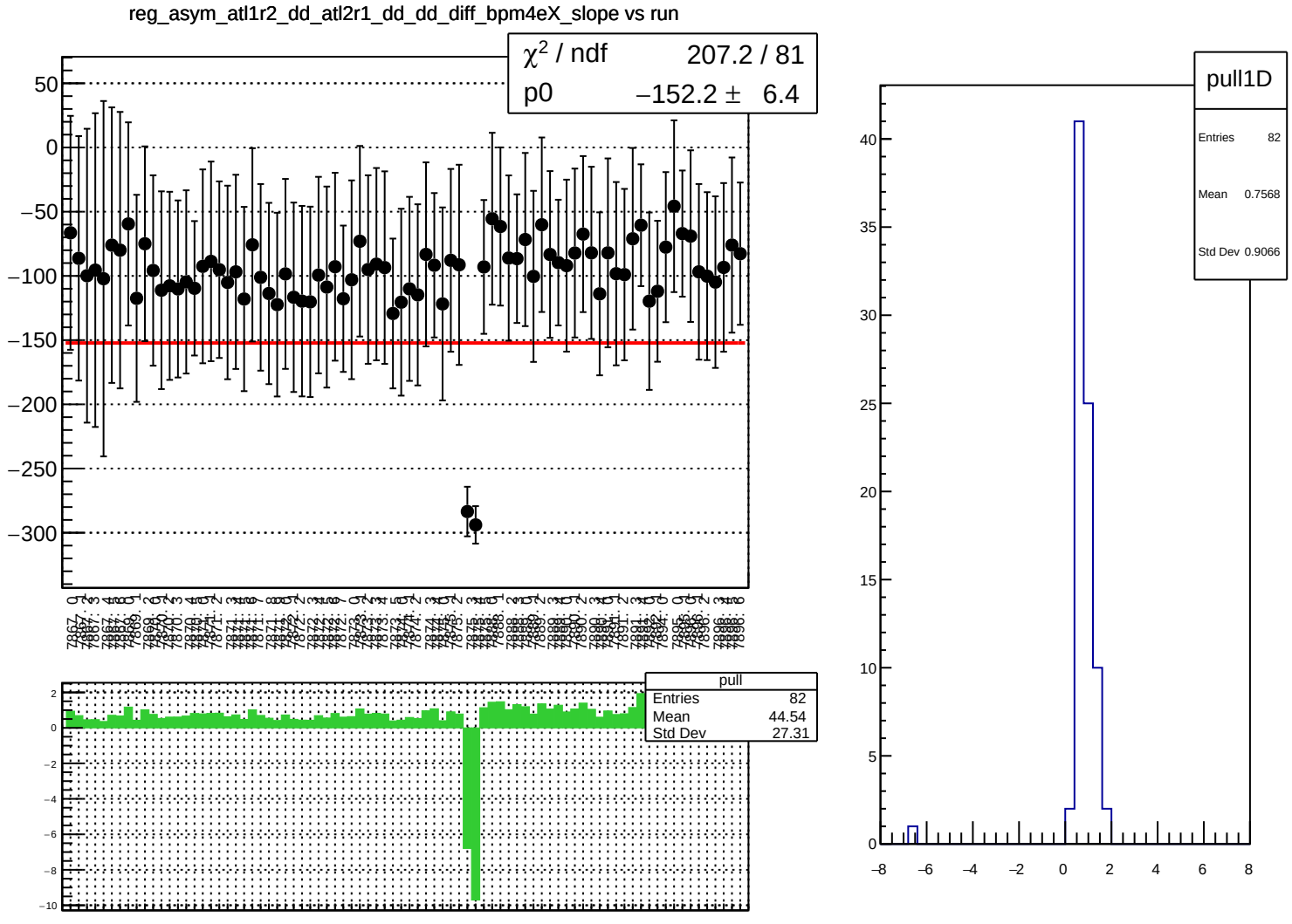

pull1D
Entries 82
Mean 0.0005103
Std Dev 0.2763

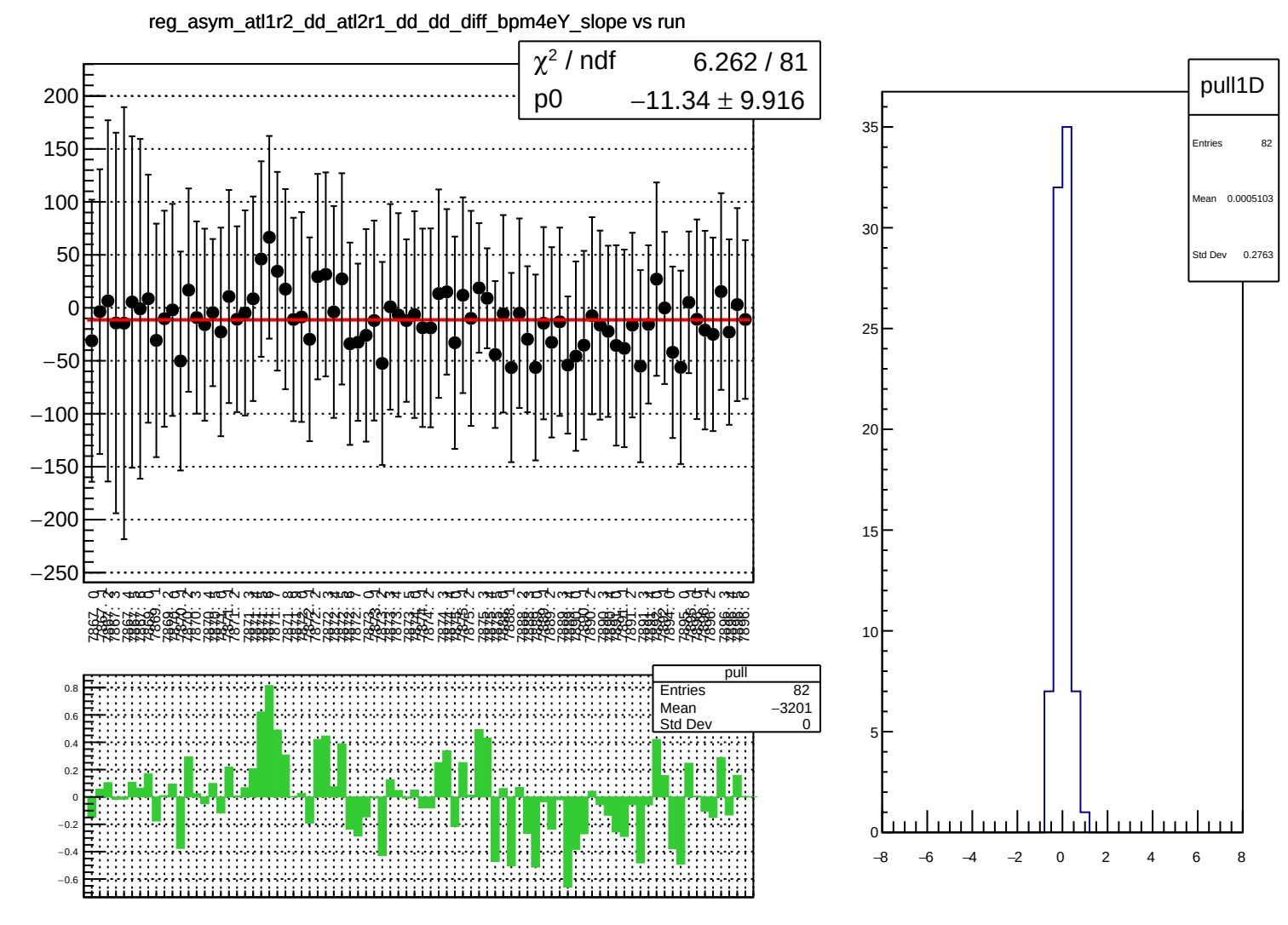

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 12.6 / 81
p0 120.8 ± 0.313
pull
Entries 82
Mean −92.63
Std Dev 0
pull1D
Entries 82
Mean −0.02364
Std Dev 0.3913

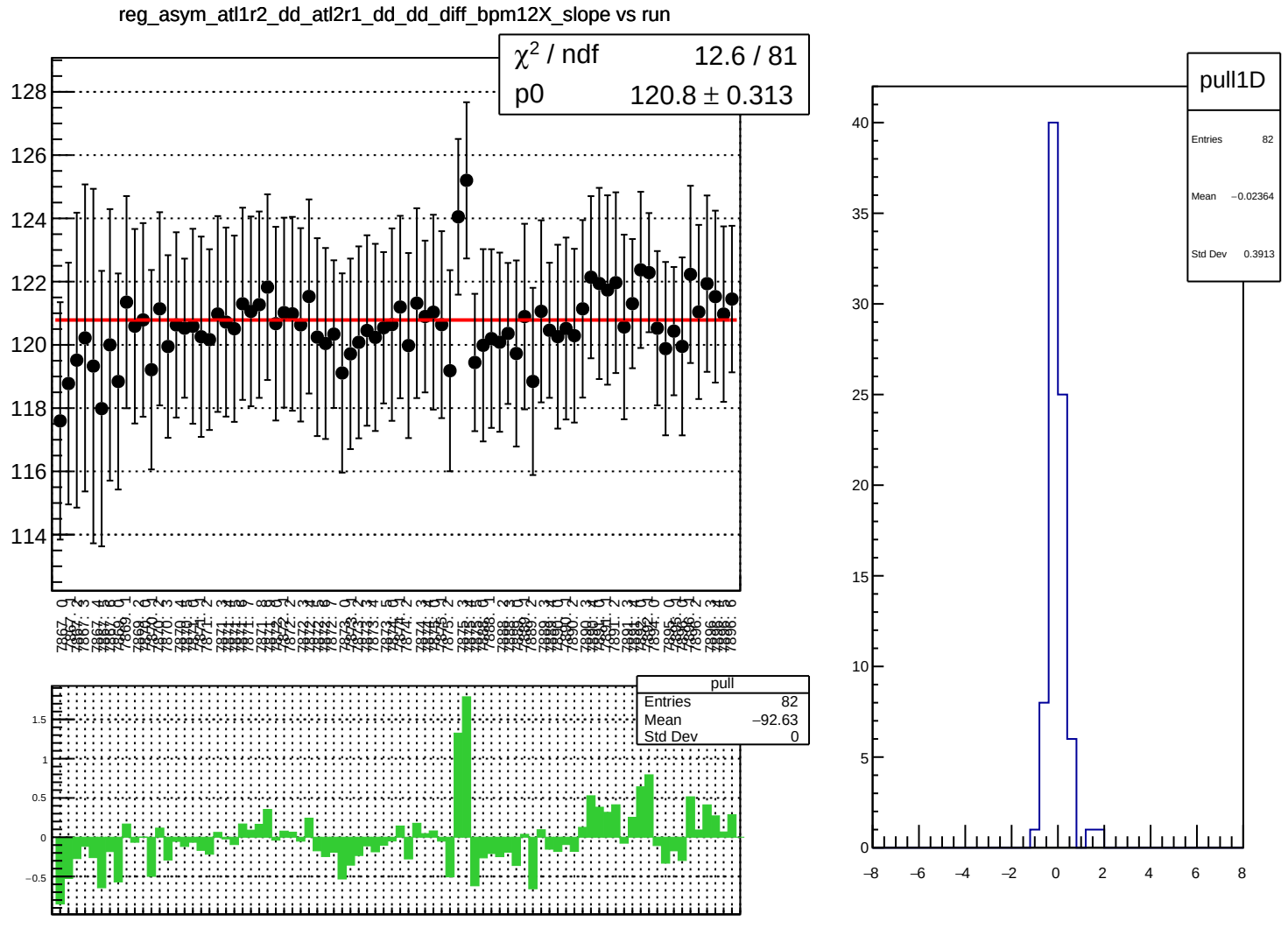

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 160.5 / 81
p0 139 ± 7.62
pull
Entries 82
Mean 44.53
Std Dev 27.91
pull1D
Entries 82
Mean −0.5873
Std Dev 0.8539

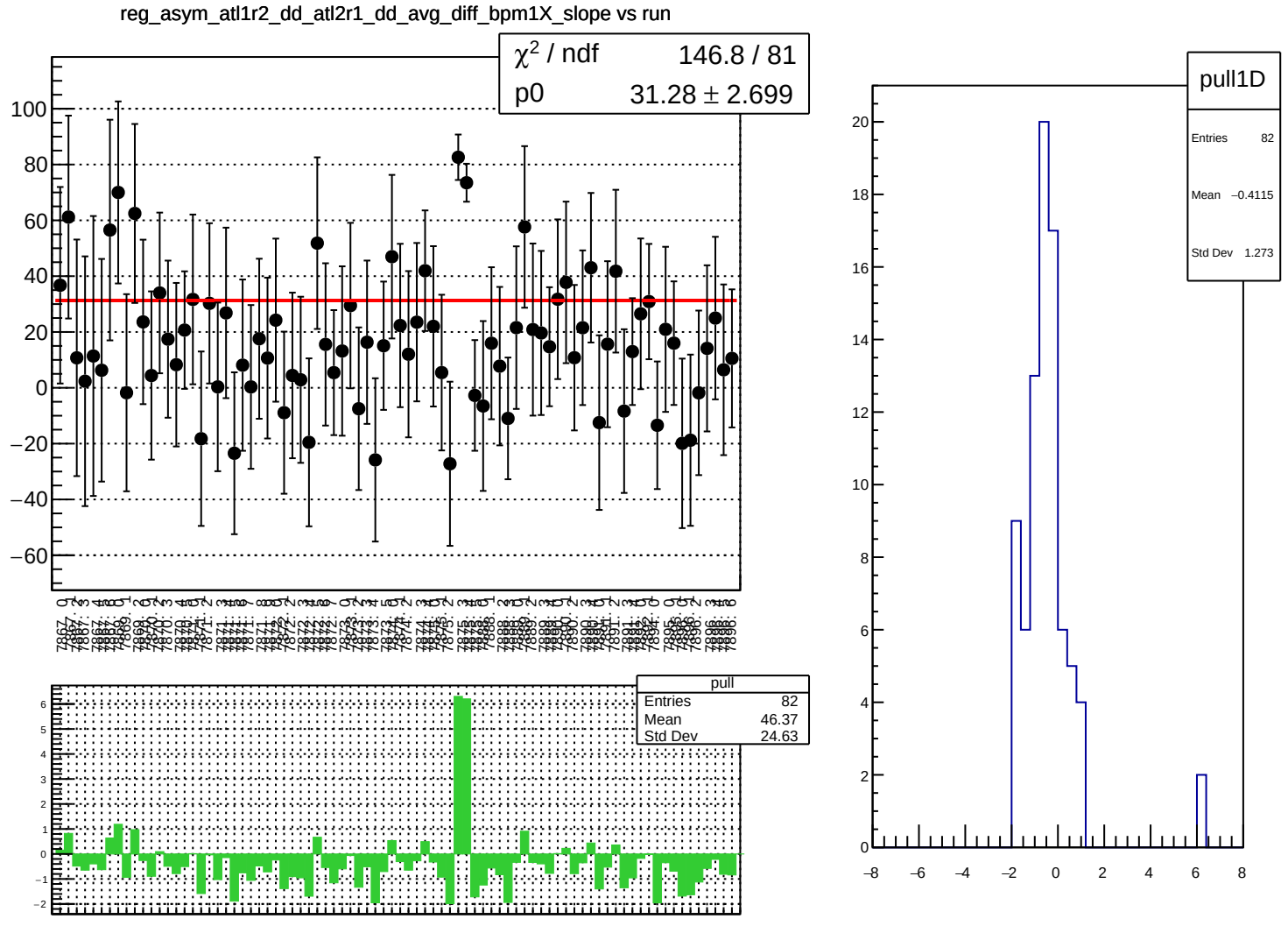

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.737 / 81
p0 −28.07 ± 8.517
pull
Entries 82
Mean 178.6
Std Dev 0

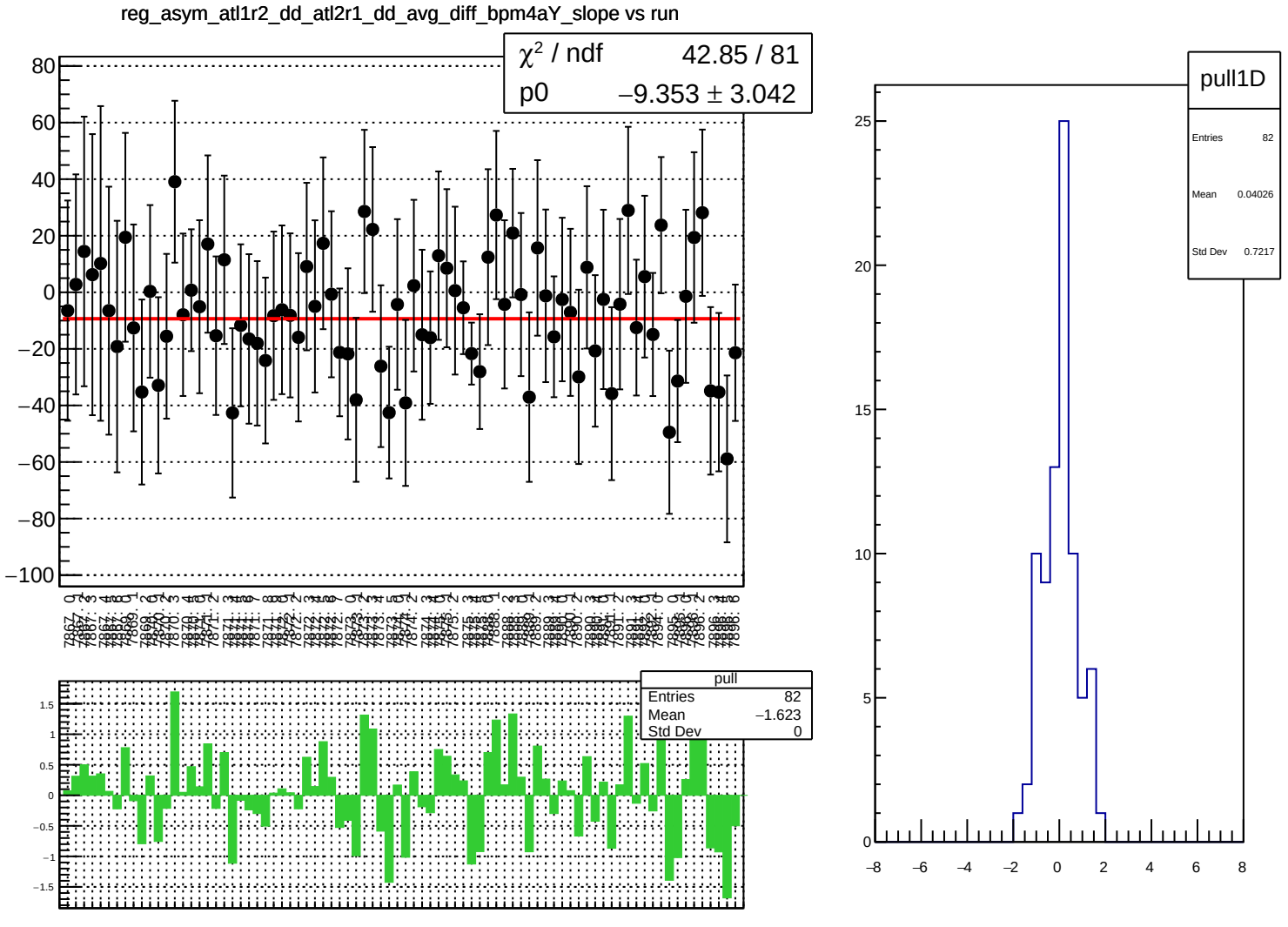

pull1D
Entries 82
Mean 0.007324
Std Dev 0.2865

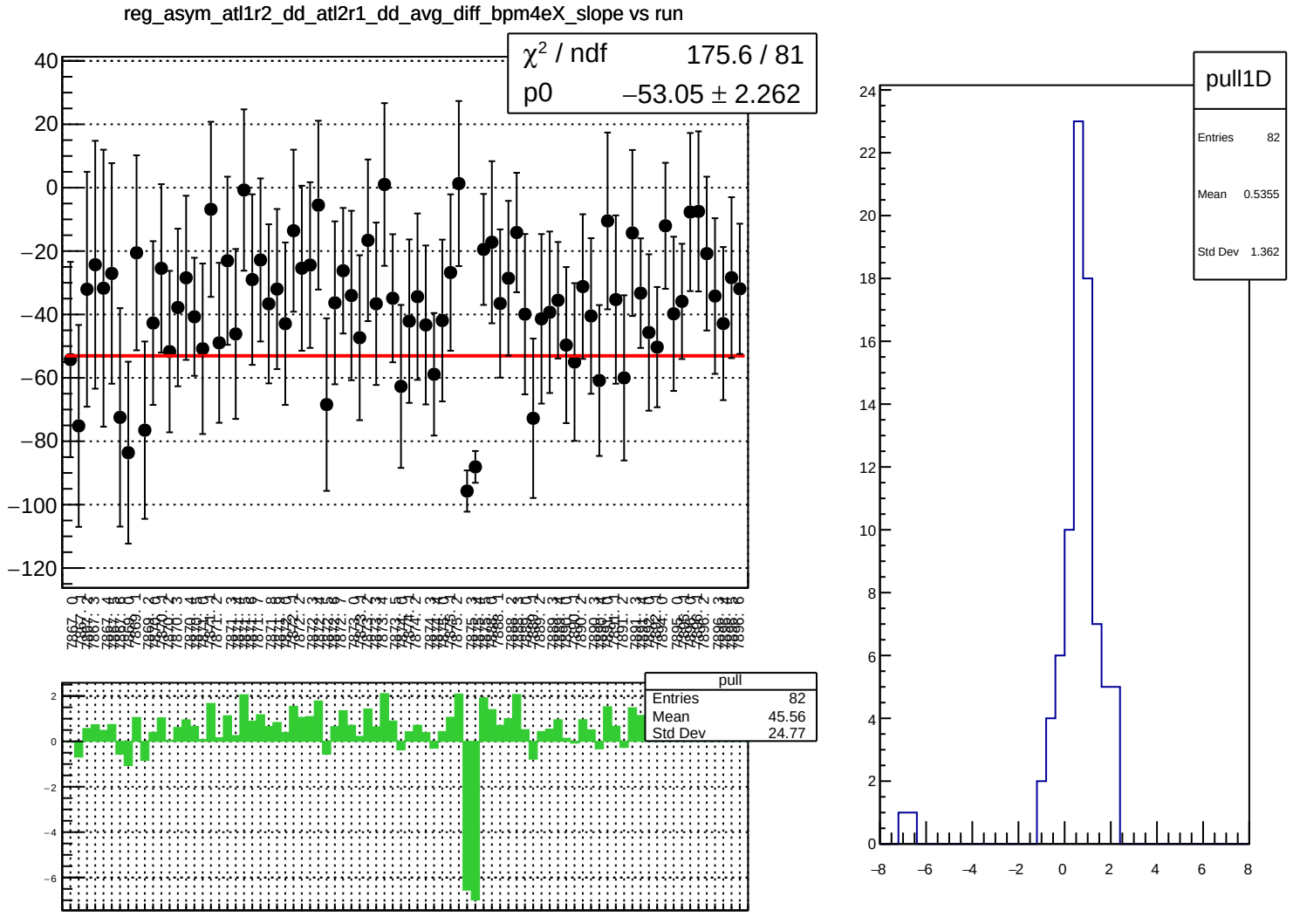

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 207.2 / 81
p0 −152.2 ± 6.4
pull
Entries 82
Mean 44.54
Std Dev 27.31
pull1D
Entries 82
Mean 0.7568
Std Dev 0.9066

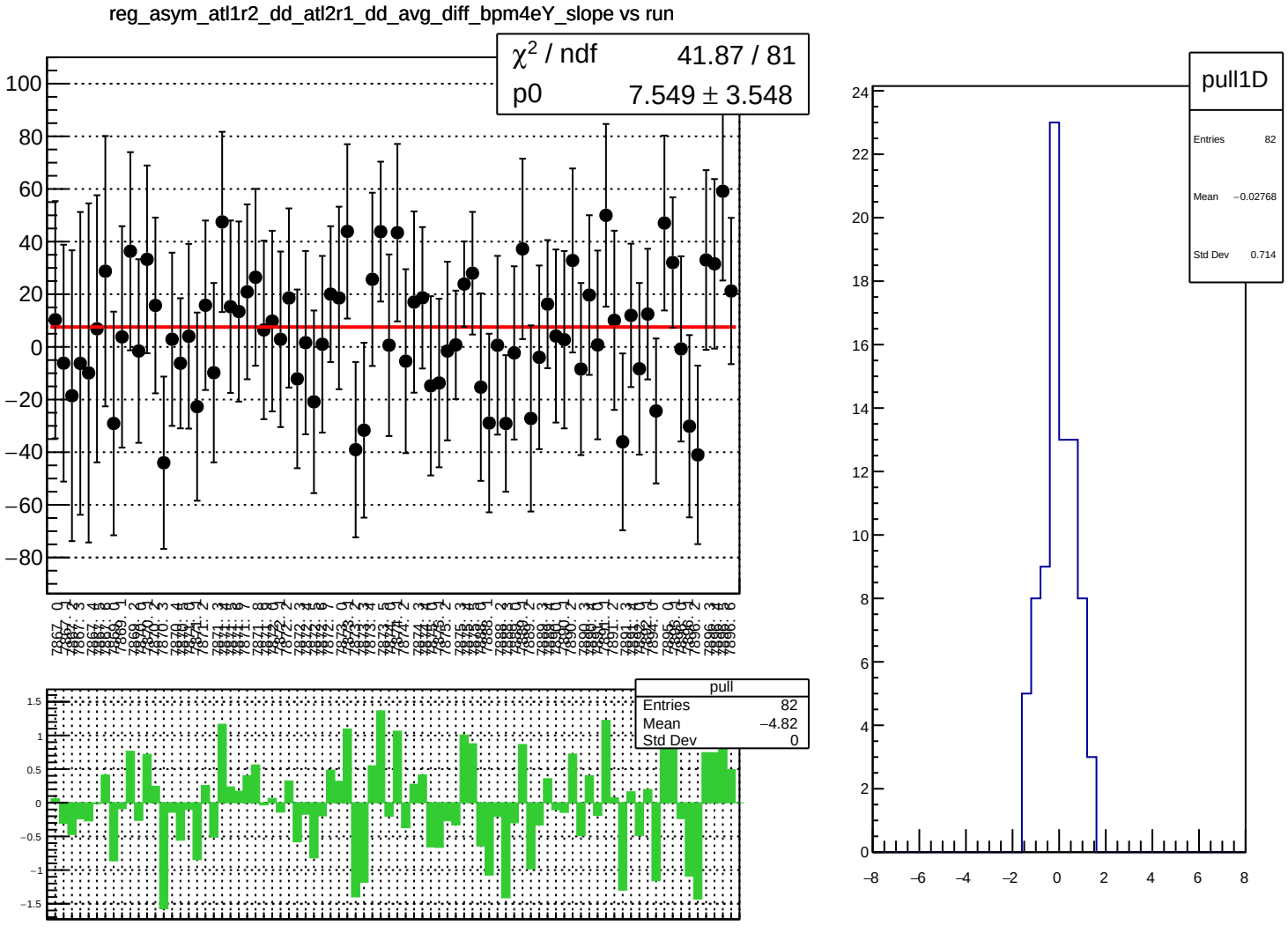

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.262 / 81
p0 −11.34 ± 9.916
pull
Entries 82
Mean −3201
Std Dev 0
pull1D
Entries 82
Mean 0.0005103
Std Dev 0.2763

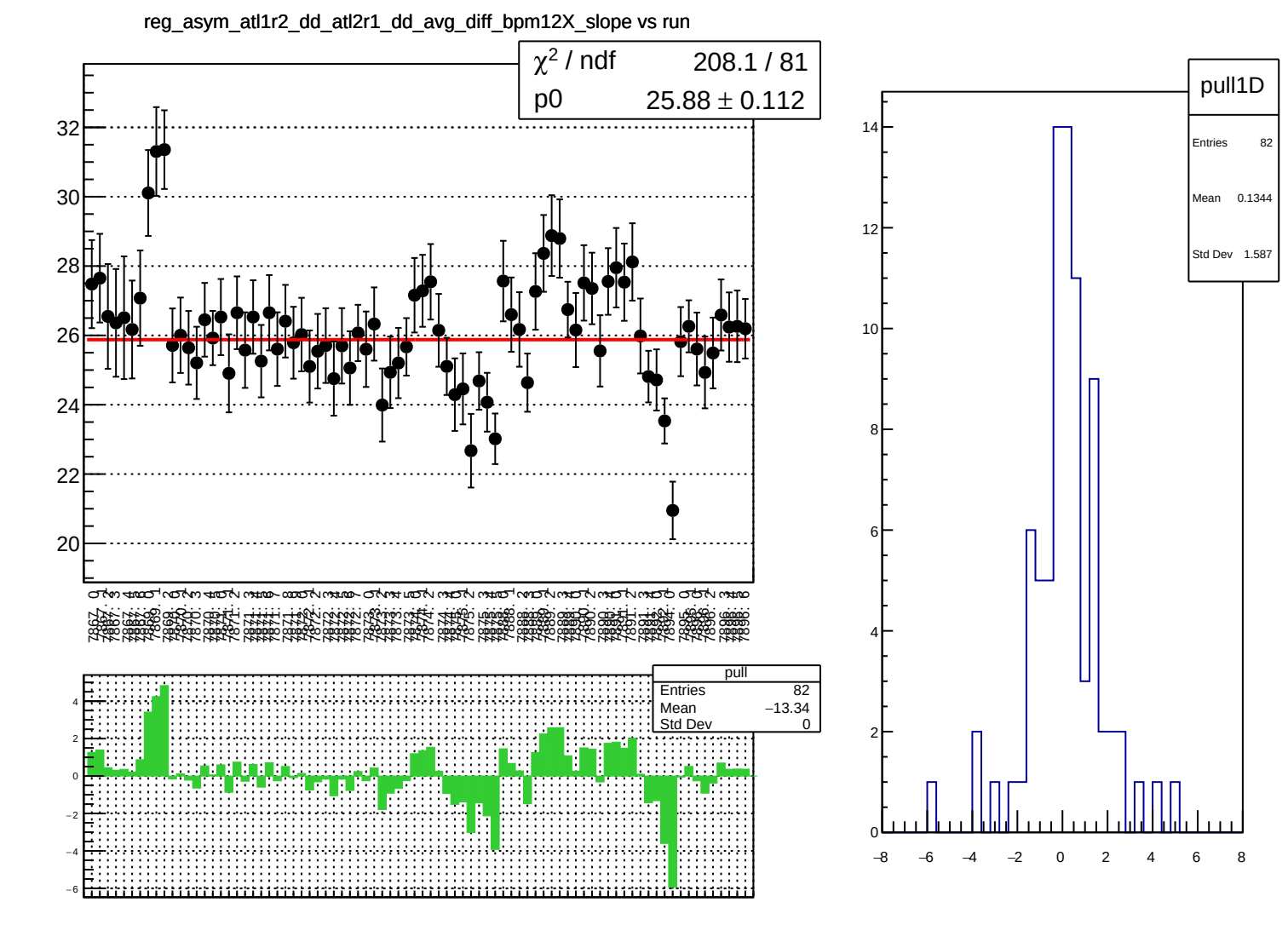

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 12.6 / 81
p0 120.8 ± 0.313
128
126
124
122
120
118
116
114
pull
Entries 82
Mean −92.63
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 82
Mean −0.02364
Std Dev 0.3913
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

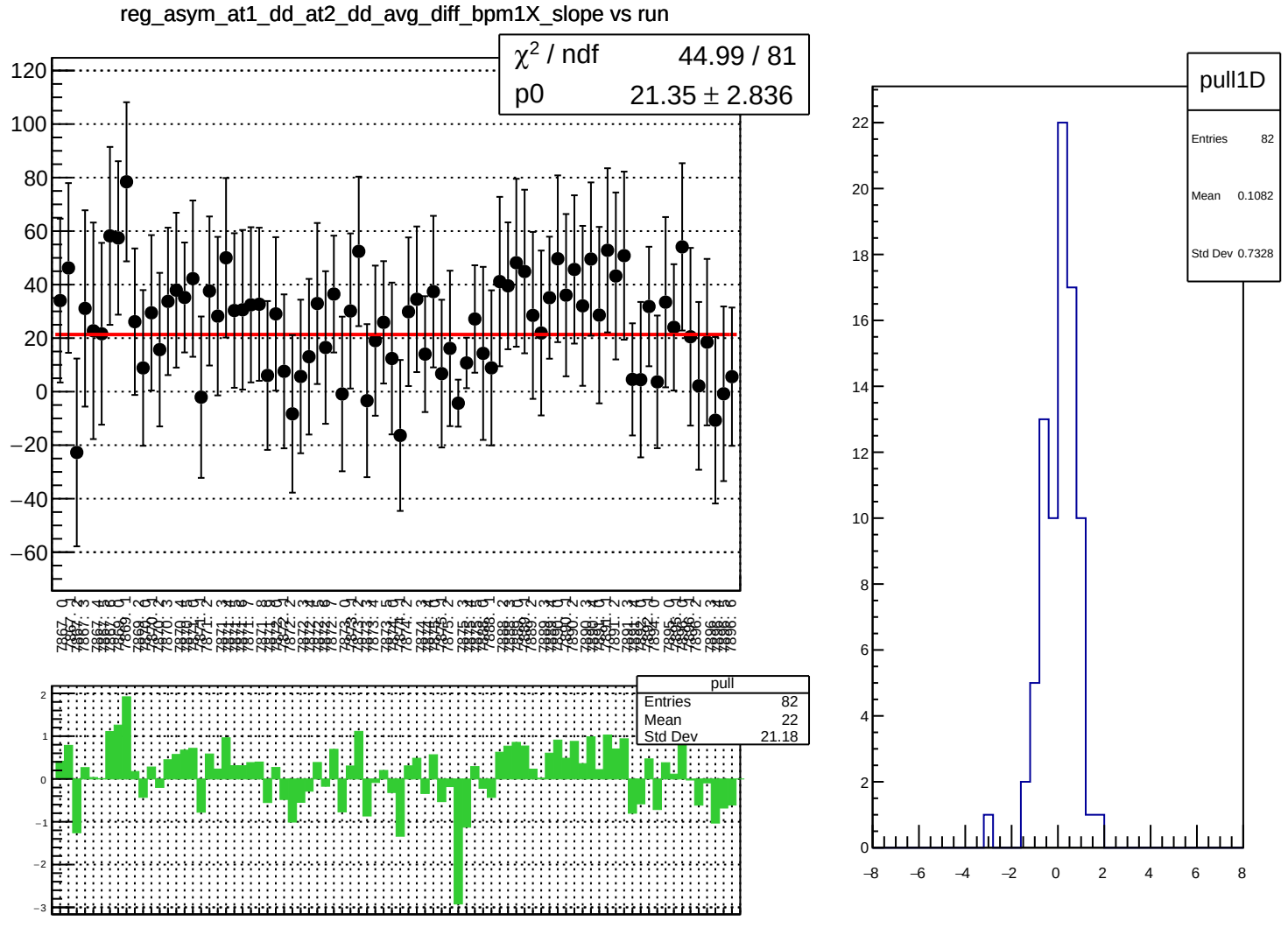

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 146.8 / 81
p0 31.28 ± 2.699
pull
Entries 82
Mean 46.37
Std Dev 24.63
pull1D
Entries 82
Mean −0.4115
Std Dev 1.273

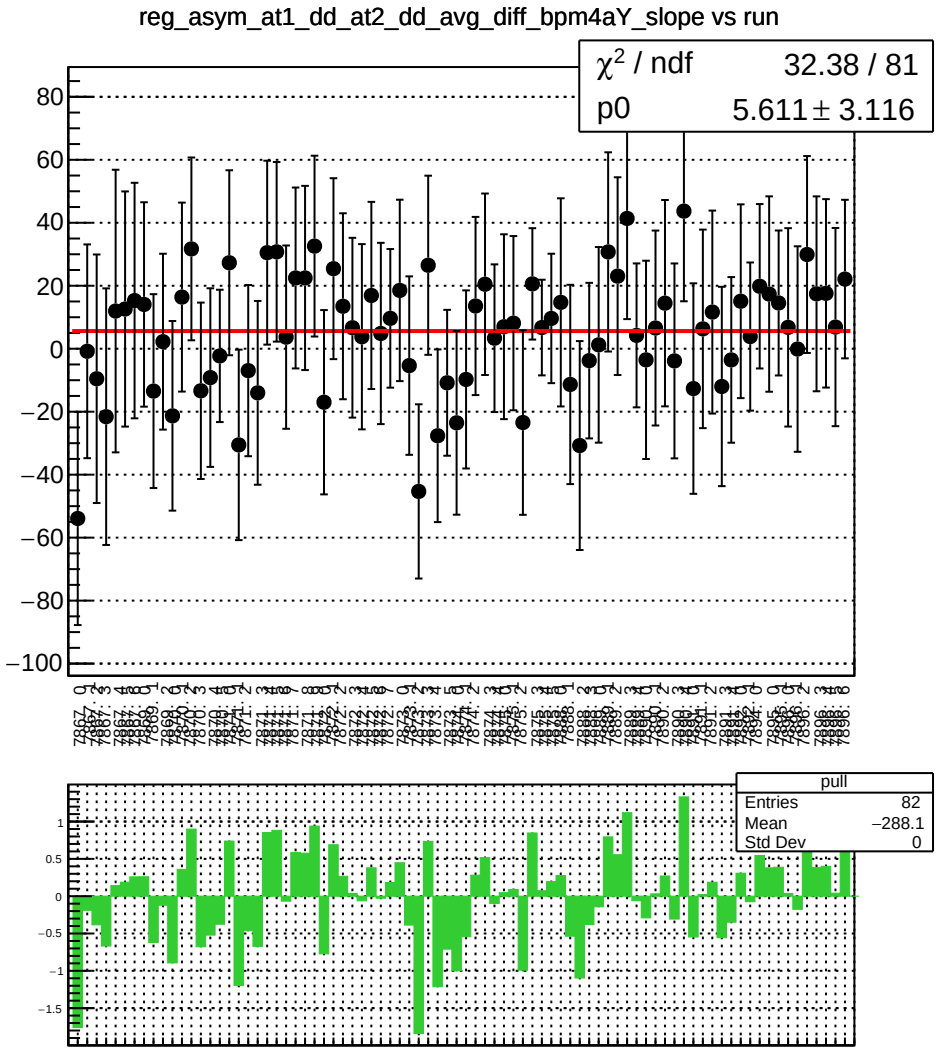

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.85 / 81
p0 −9.353 ± 3.042
pull
Entries 82
Mean −1.623
Std Dev 0
pull1D
Entries 82
Mean 0.04026
Std Dev 0.7217

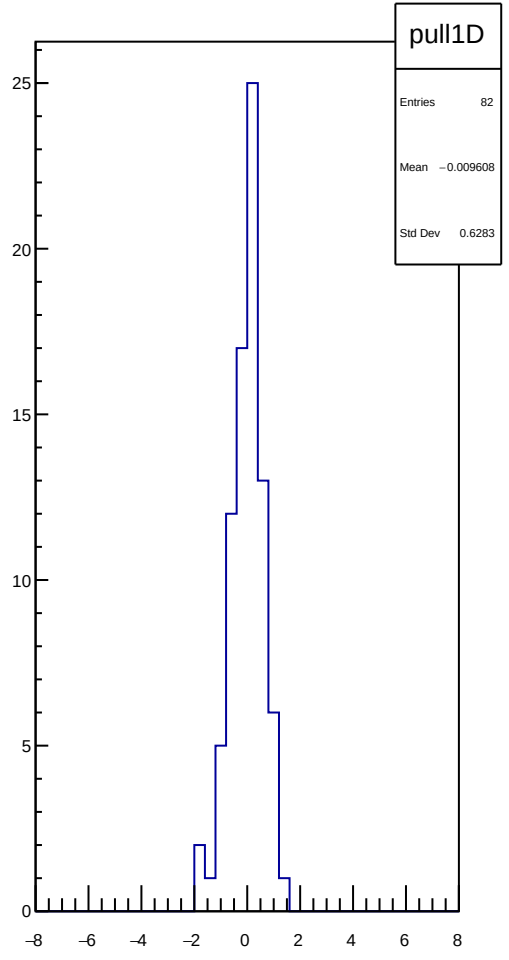

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 175.6 / 81
p0 −53.05 ± 2.262
pull
Entries 82
Mean 45.56
Std Dev 24.77
pull1D
Entries 82
Mean 0.5355
Std Dev 1.362

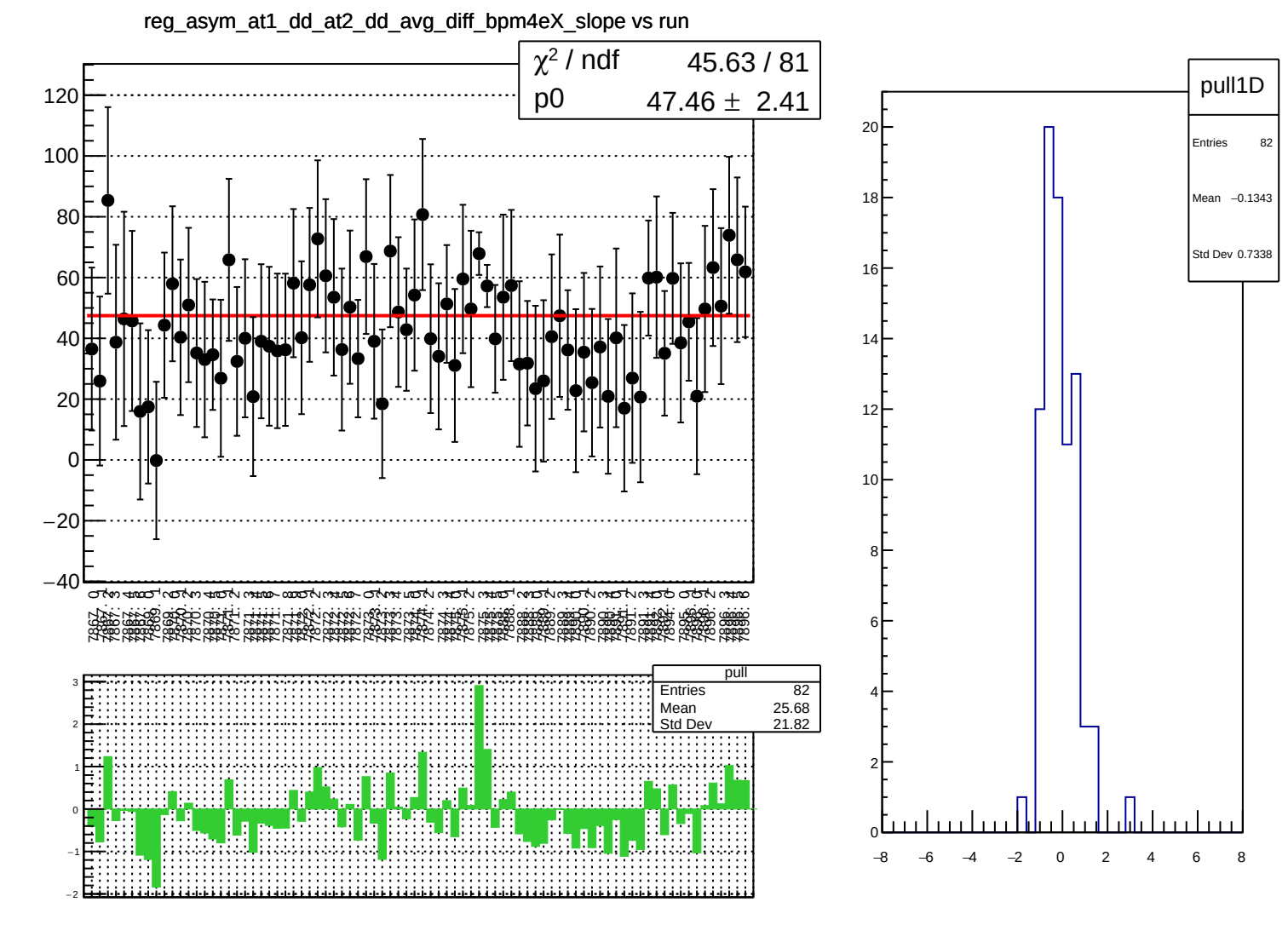

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.87 / 81
p0 7.549 ± 3.548
pull
Entries 82
Mean −4.82
Std Dev 0
pull1D
Entries 82
Mean −0.02768
Std Dev 0.714

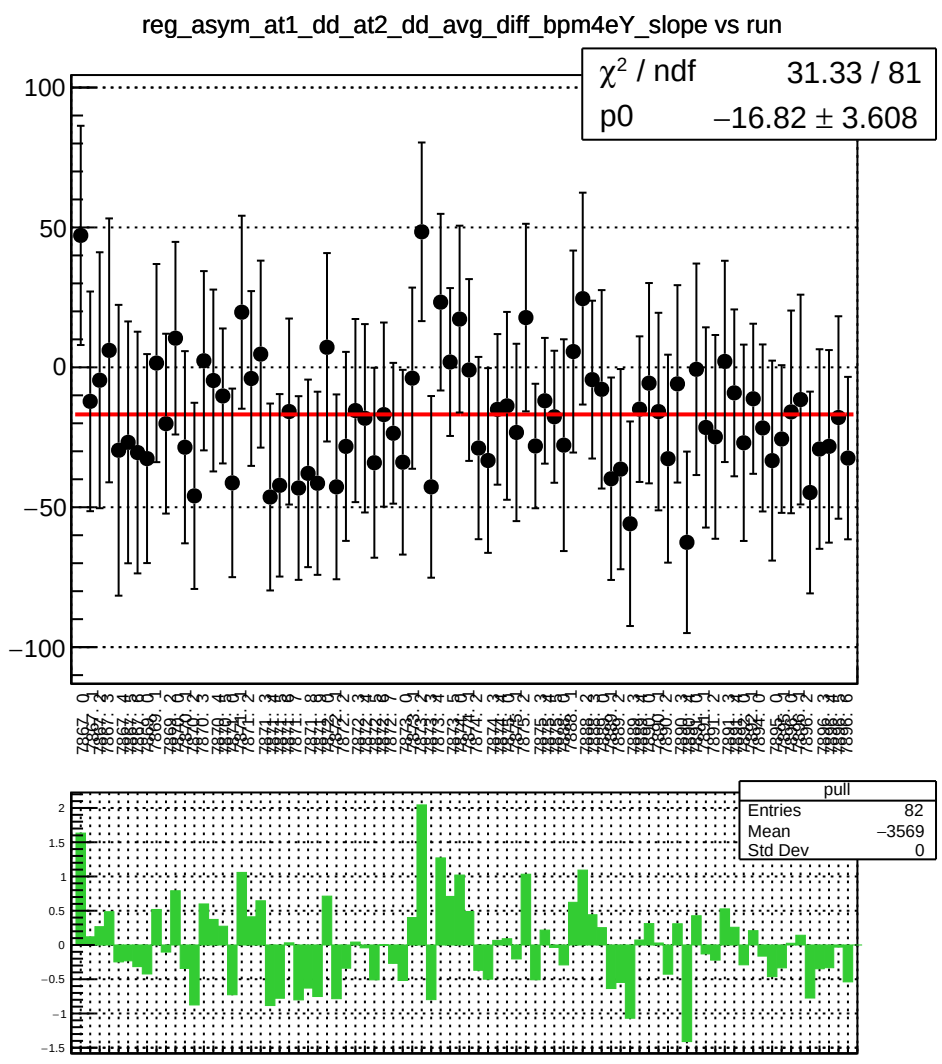

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 208.1 / 81
p0 25.88 ± 0.112
pull
Entries 82
Mean −13.34
Std Dev 0
pull1D
Entries 82
Mean 0.1344
Std Dev 1.587

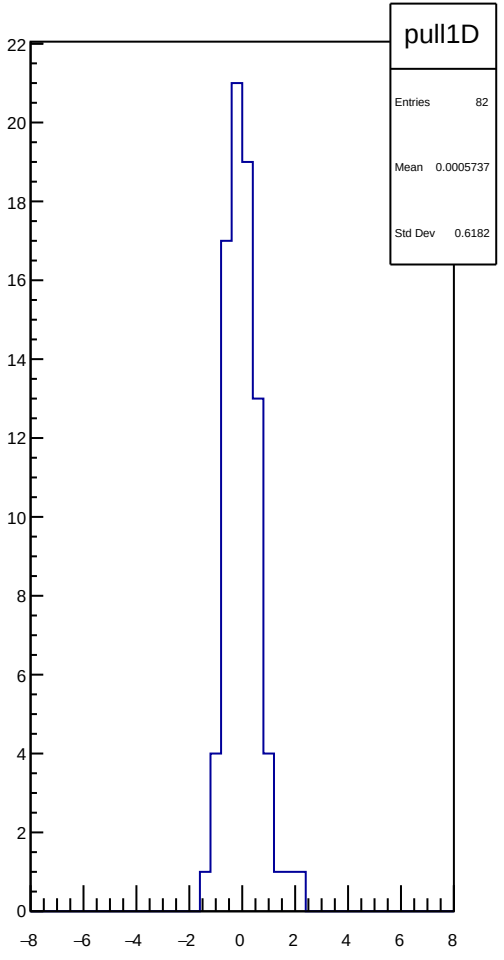

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 44.99 / 81
p0 21.35 ± 2.836
pull
Entries 82
Mean 22
Std Dev 21.18
pull1D
Entries 82
Mean 0.1082
Std Dev 0.7328

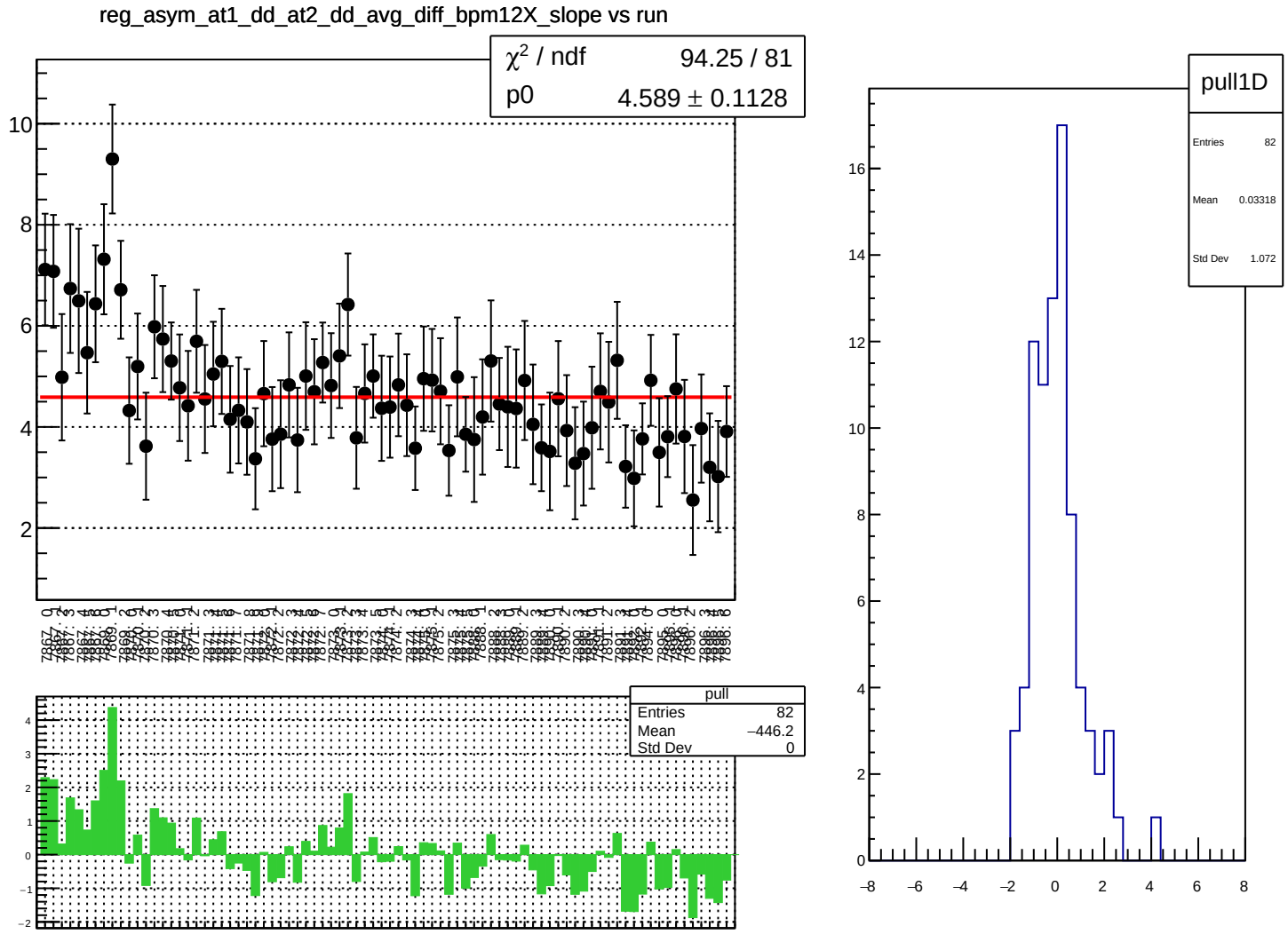

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.38 / 81
p0 5.611 ± 3.116
pull
Entries 82
Mean −288.1
Std Dev 0

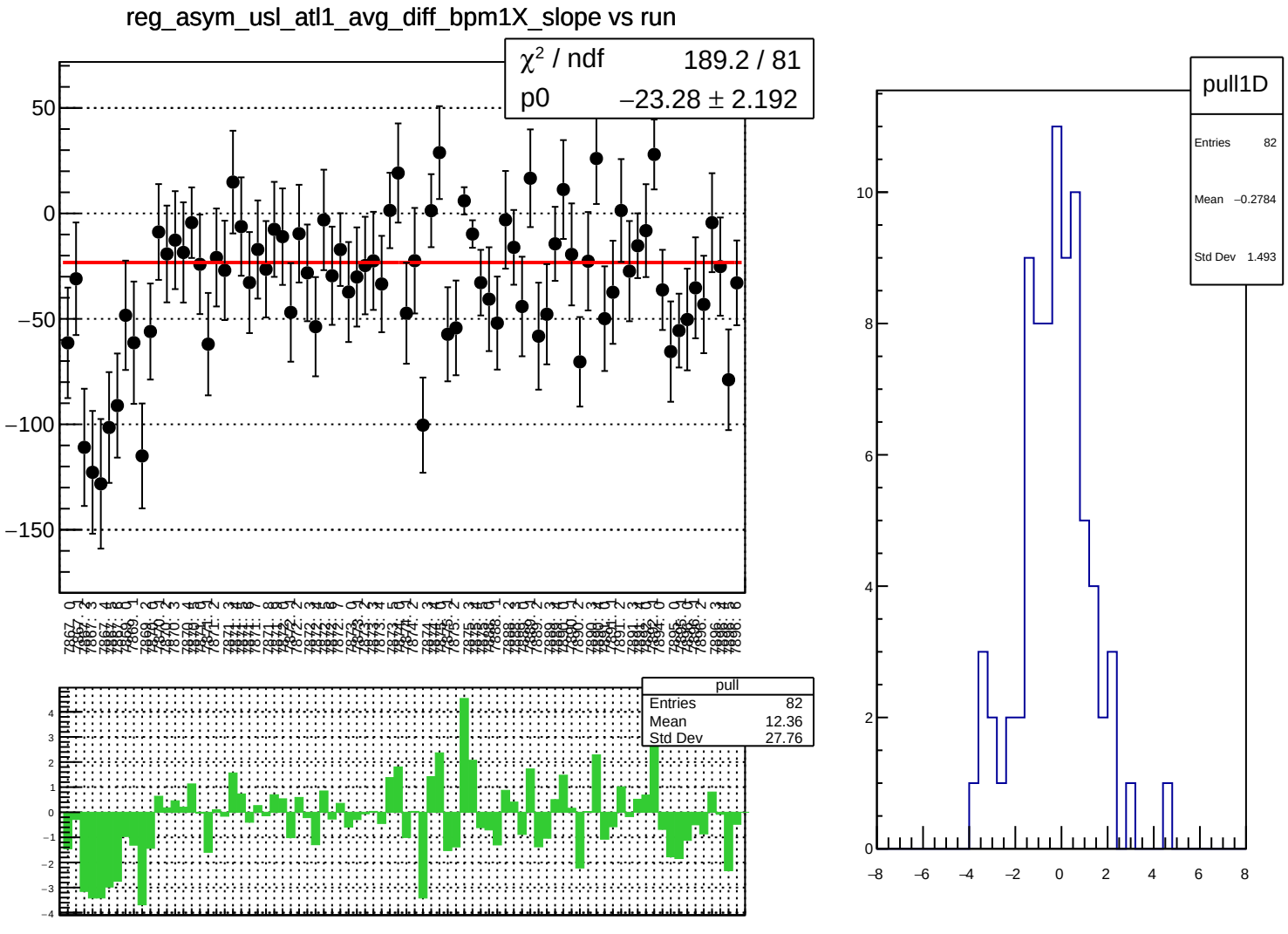

pull1D
Entries 82
Mean −0.009608
Std Dev 0.6283

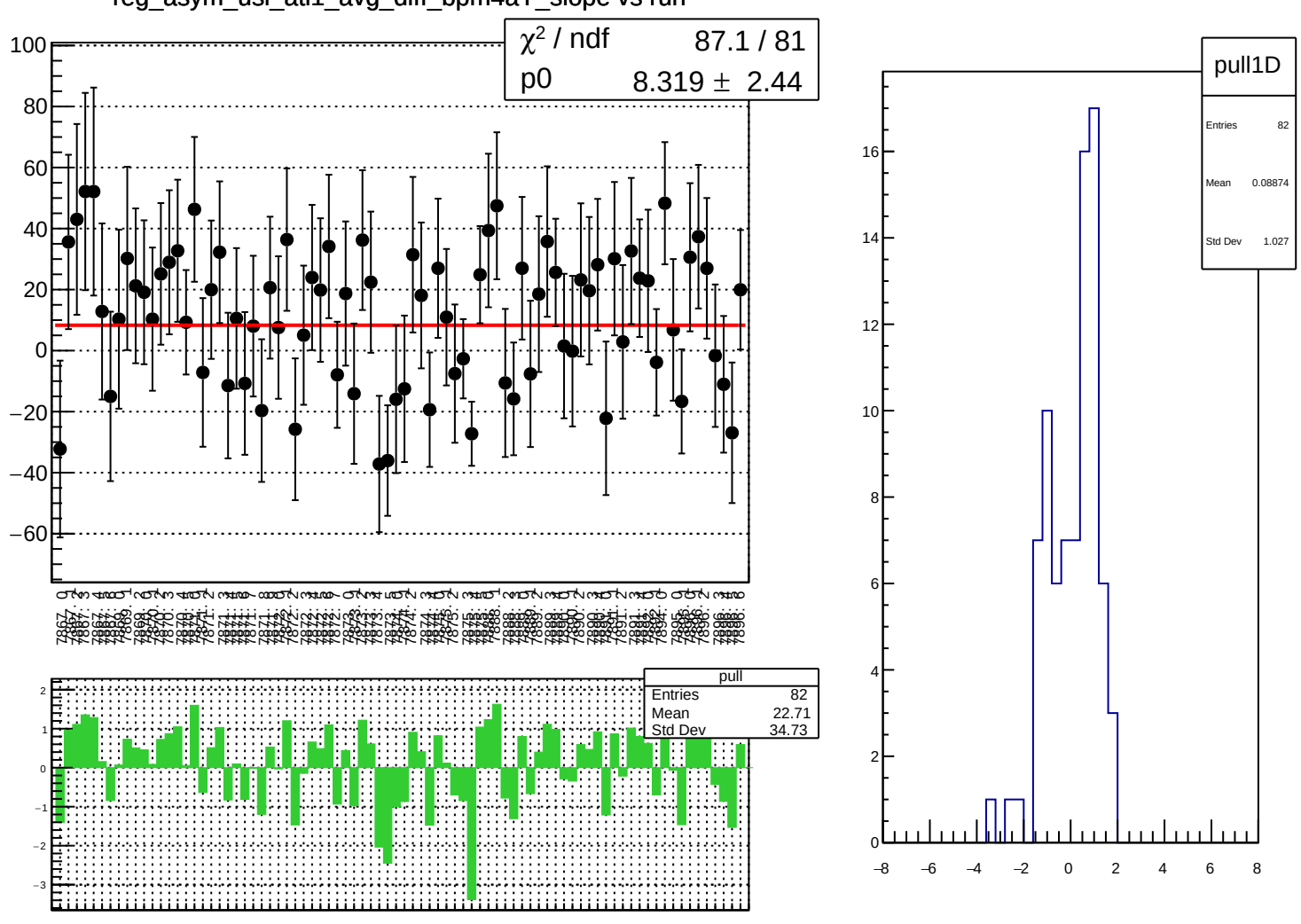

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.63 / 81
p0 47.46 ± 2.41
pull
Entries 82
Mean 25.68
Std Dev 21.82
pull1D
Entries 82
Mean −0.1343
Std Dev 0.7338

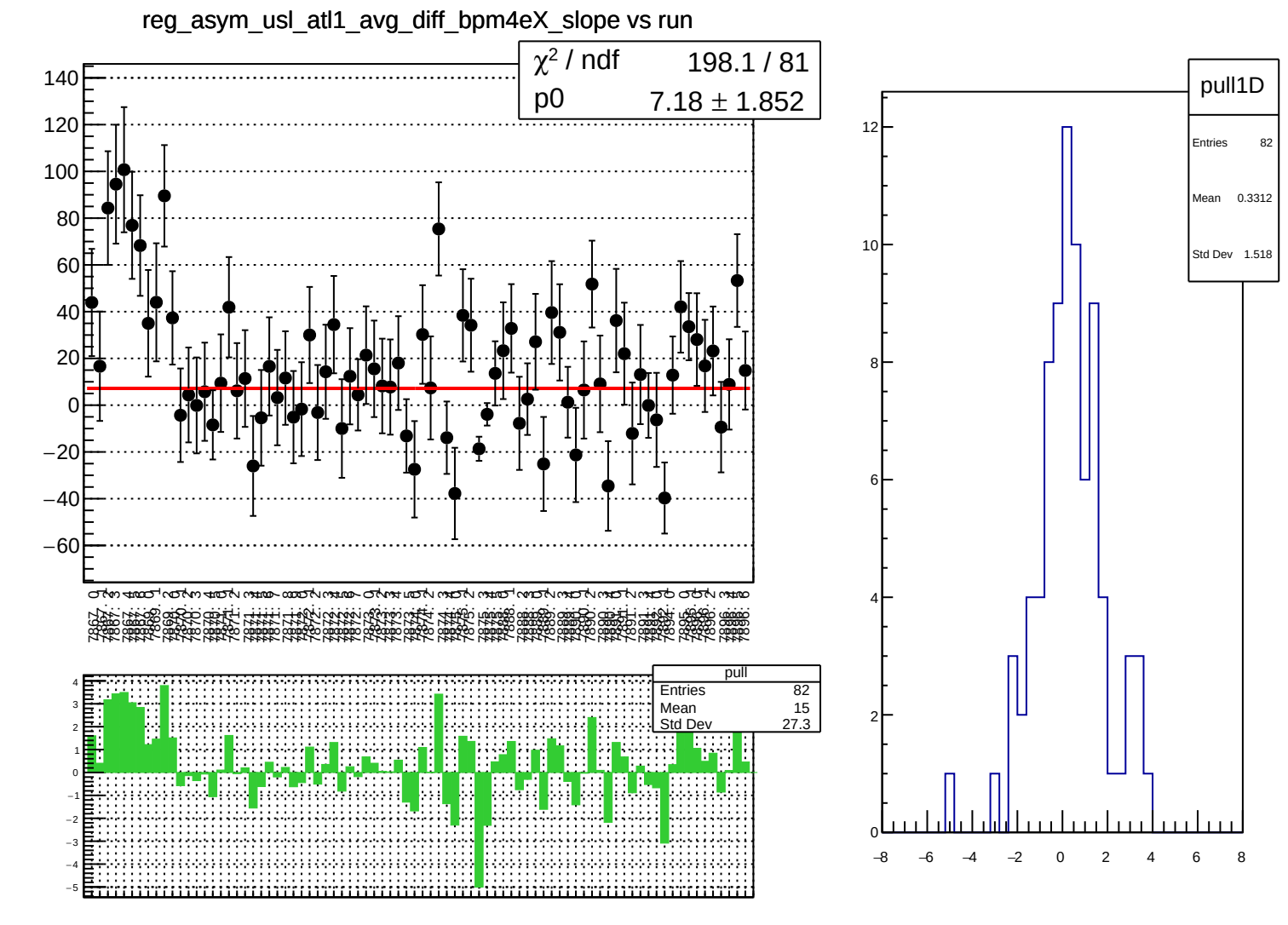

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.33 / 81
p0 −16.82 ± 3.608
pull
Entries 82
Mean −3569
Std Dev 0

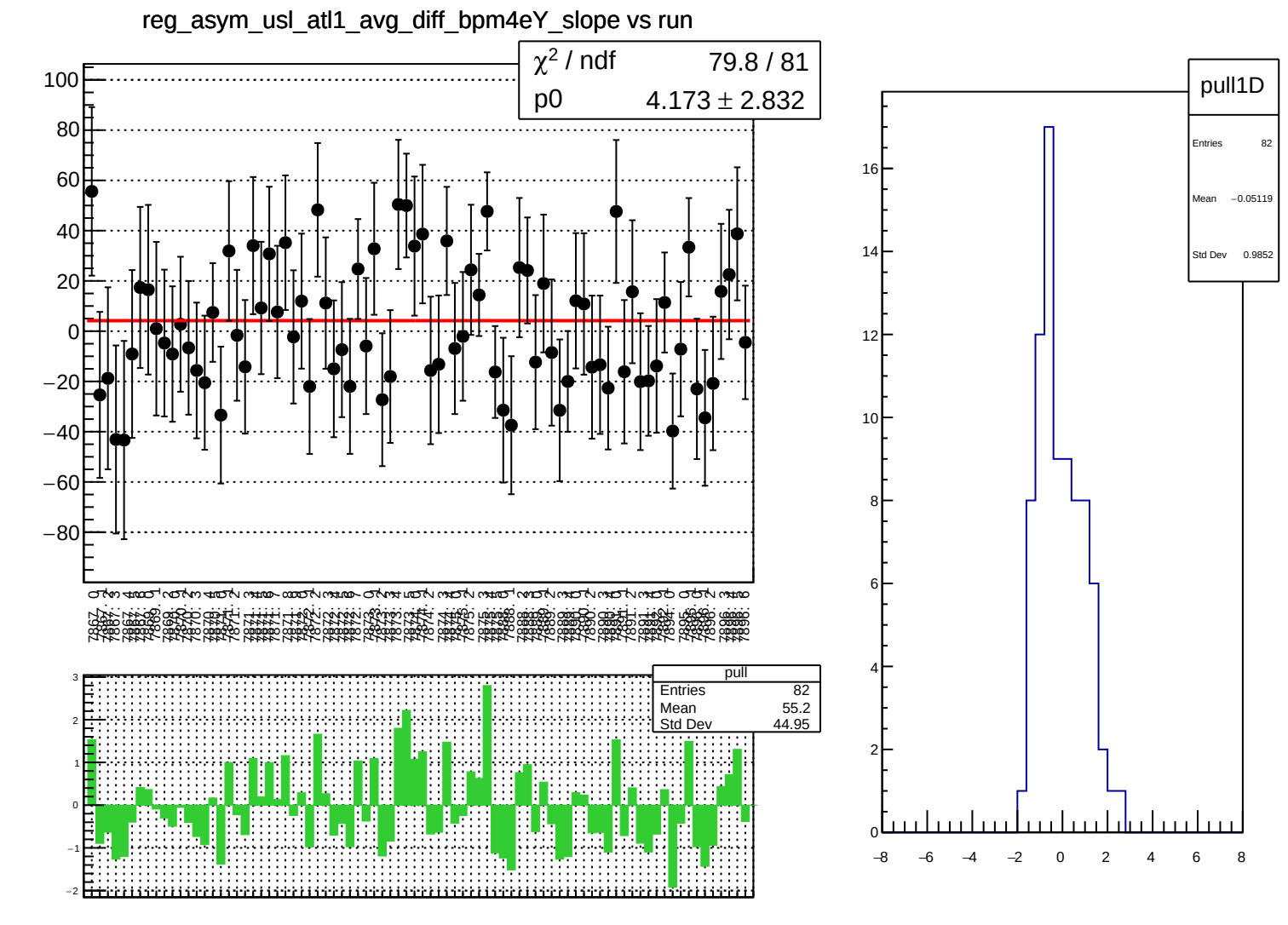

pull1D
Entries 82
Mean 0.0005737
Std Dev 0.6182

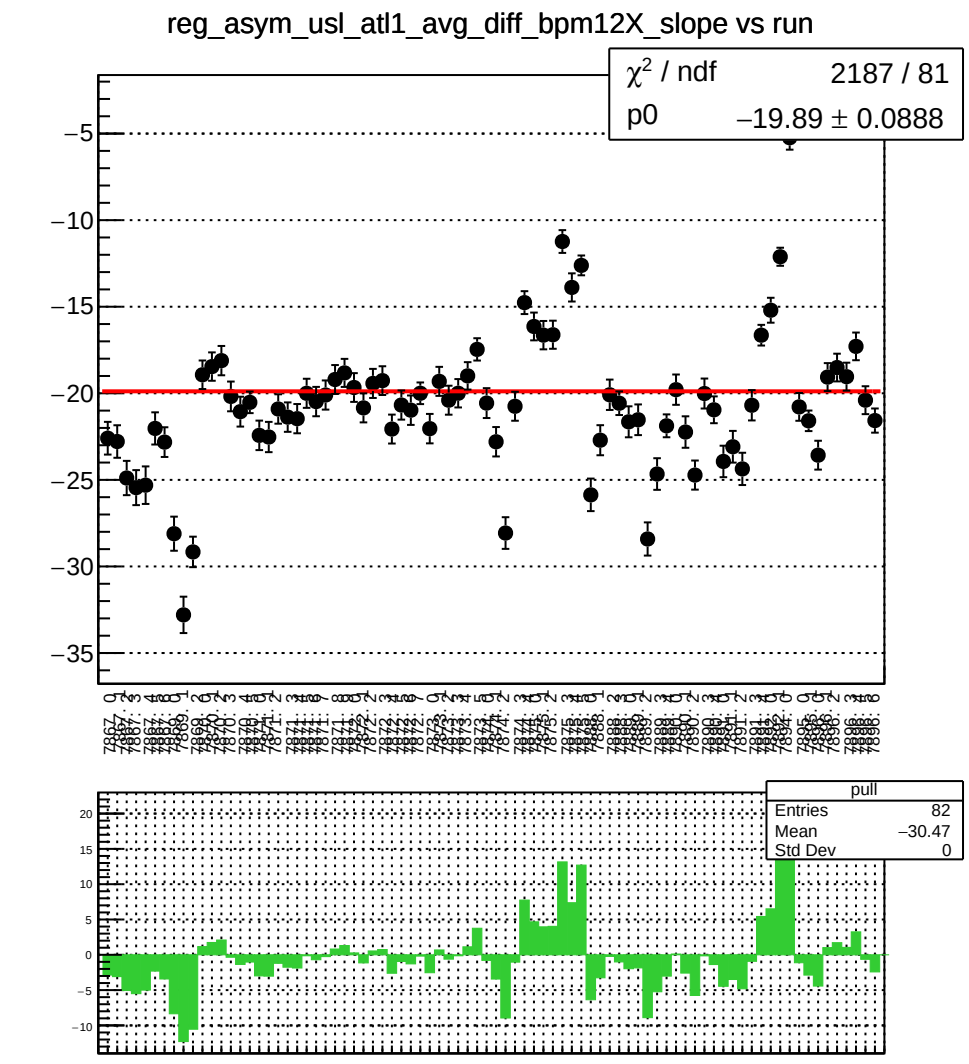

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 94.25 / 81
p0 4.589 ± 0.1128
pull
Entries 82
Mean −446.2
Std Dev 0
pull1D
Entries 82
Mean 0.03318
Std Dev 1.072

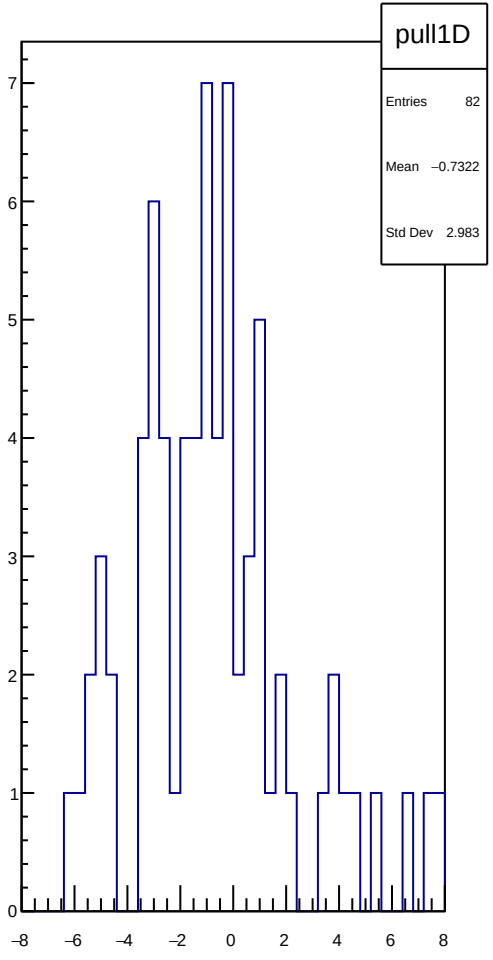

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 189.2 / 81
p0 −23.28 ± 2.192
50
0
−50
−100
−150
pull
Entries 82
Mean 12.36
Std Dev 27.76
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 82
Mean −0.2784
Std Dev 1.493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

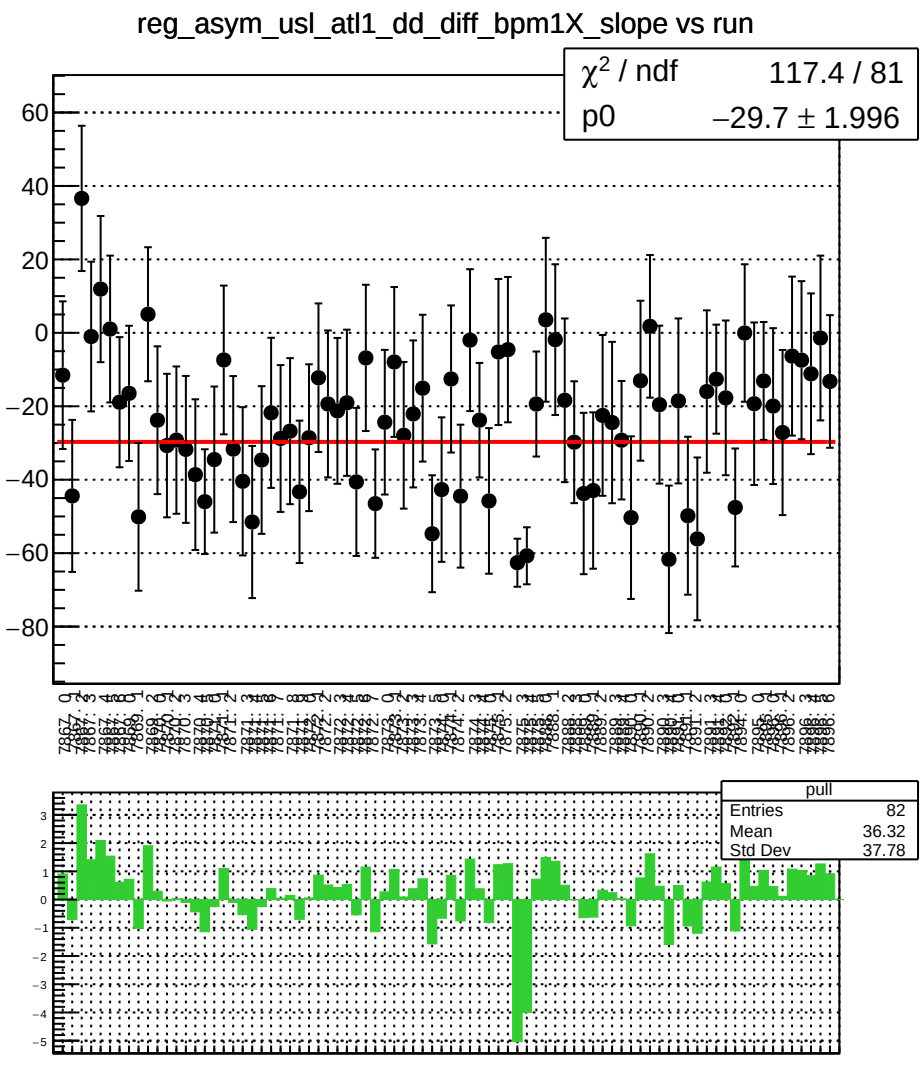

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.1 / 81
p0 8.319 ± 2.44
pull
Entries 82
Mean 22.71
Std Dev 34.73
pull1D
Entries 82
Mean 0.08874
Std Dev 1.027

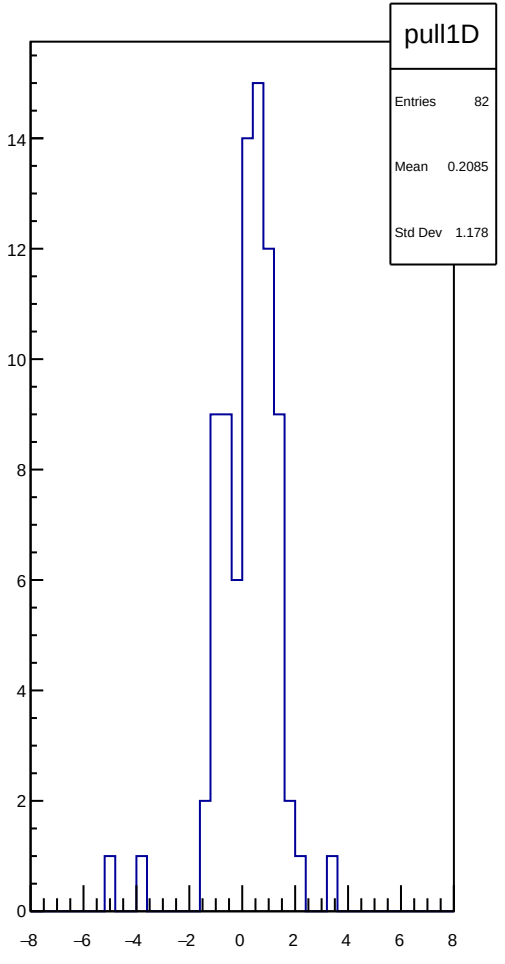

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 198.1 / 81
p0 7.18 ± 1.852
pull
Entries 82
Mean 15
Std Dev 27.3
pull1D
Entries 82
Mean 0.3312
Std Dev 1.518

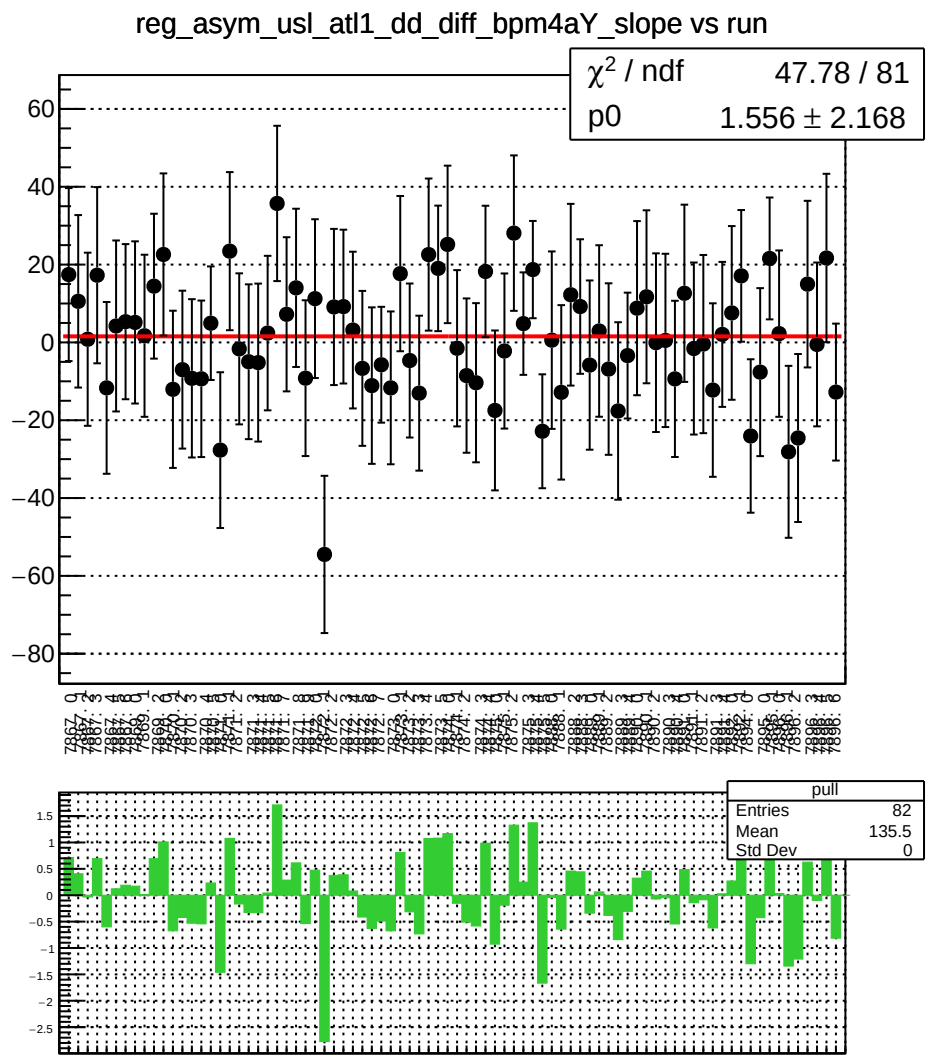

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.8 / 81
p0 4.173 ± 2.832
pull
Entries 82
Mean 55.2
Std Dev 44.95
pull1D
Entries 82
Mean −0.05119
Std Dev 0.9852

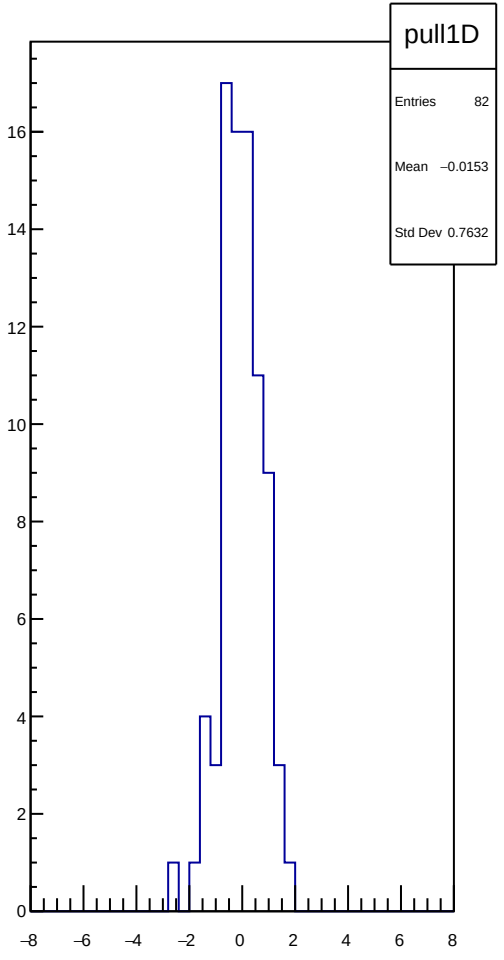

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 2187 / 81
p0 −19.89 ± 0.0888
pull
Entries 82
Mean −30.47
Std Dev 0

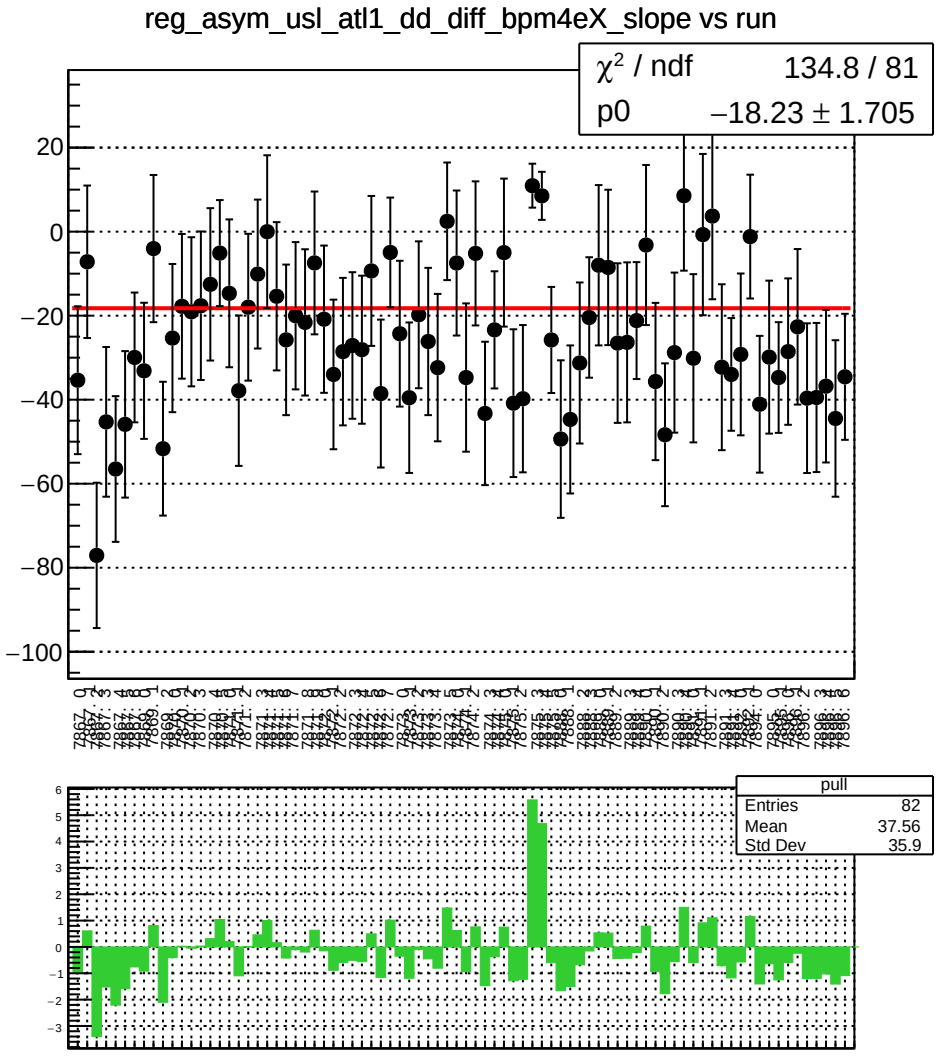

pull1D
Entries 82
Mean −0.7322
Std Dev 2.983

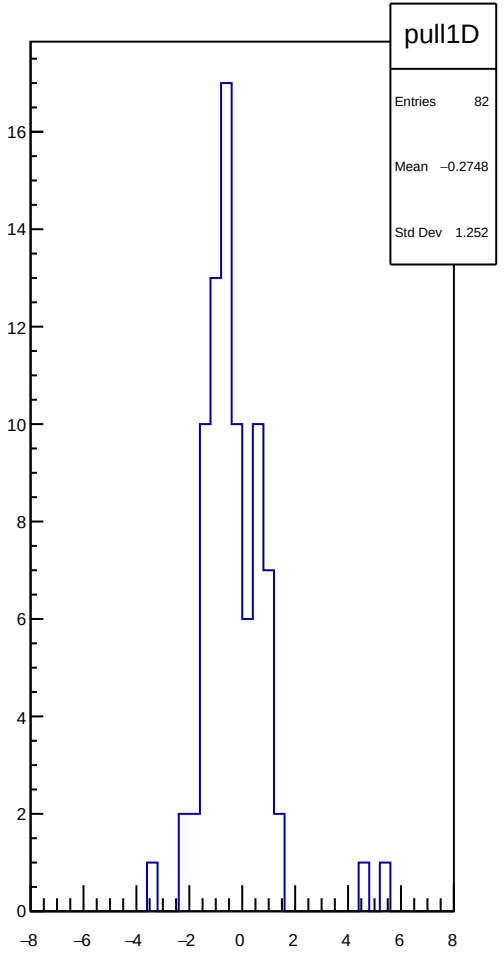

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 117.4 / 81
p0 −29.7 ± 1.996
pull
Entries 82
Mean 36.32
Std Dev 37.78

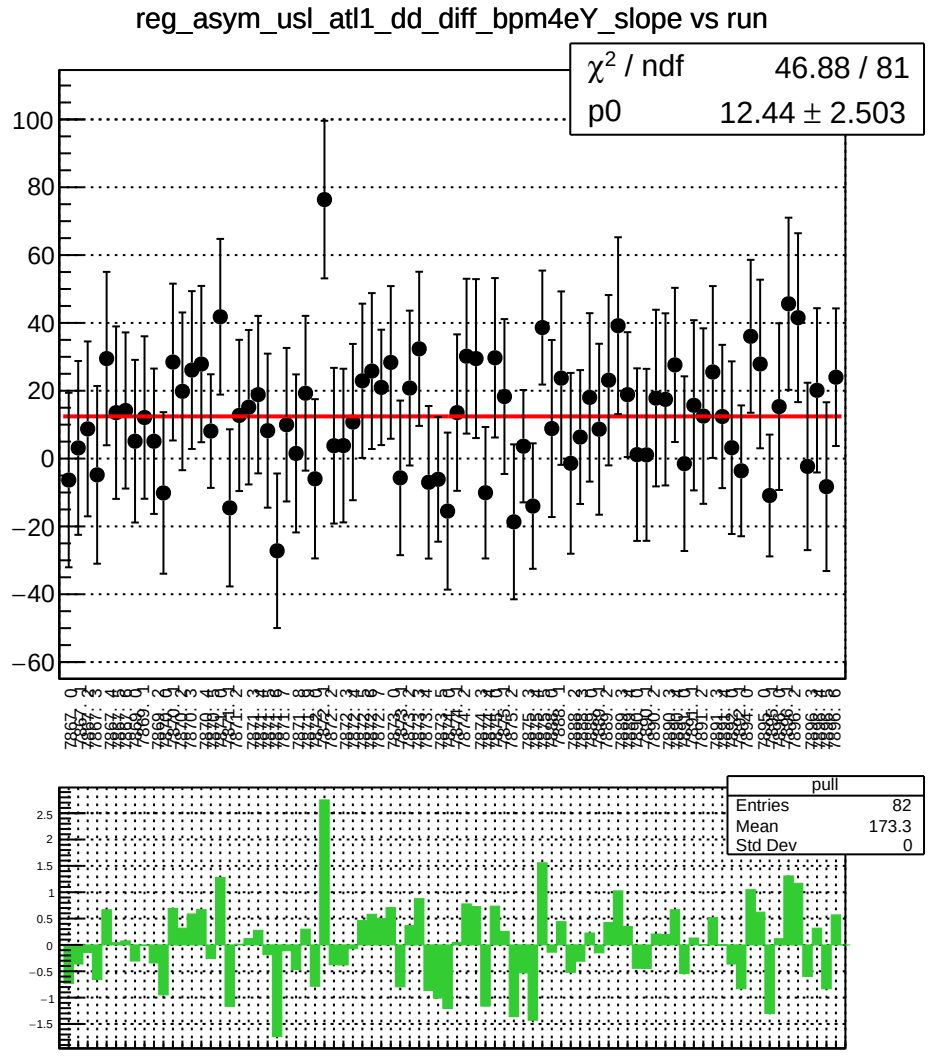

pull1D
Entries 82
Mean 0.2085
Std Dev 1.178

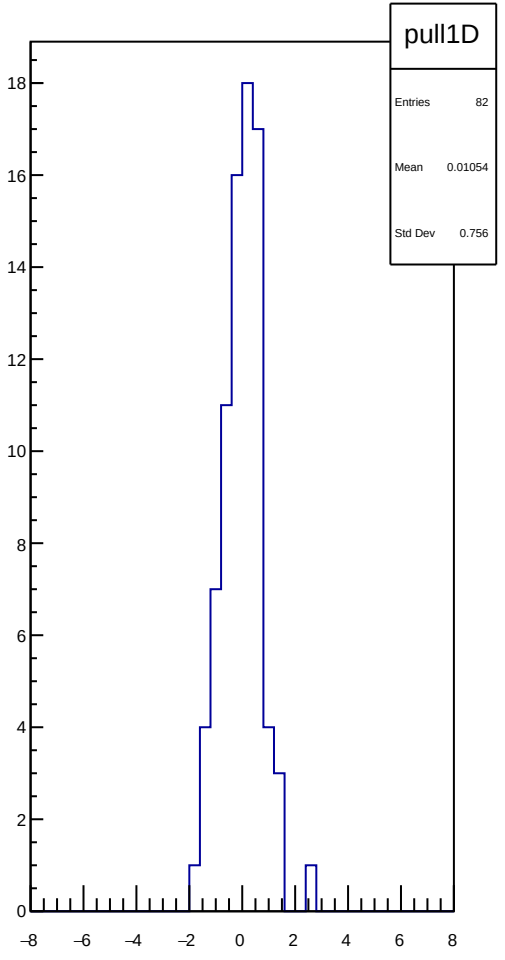

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.78 / 81
p0 1.556 ± 2.168
pull
Entries 82
Mean 135.5
Std Dev 0

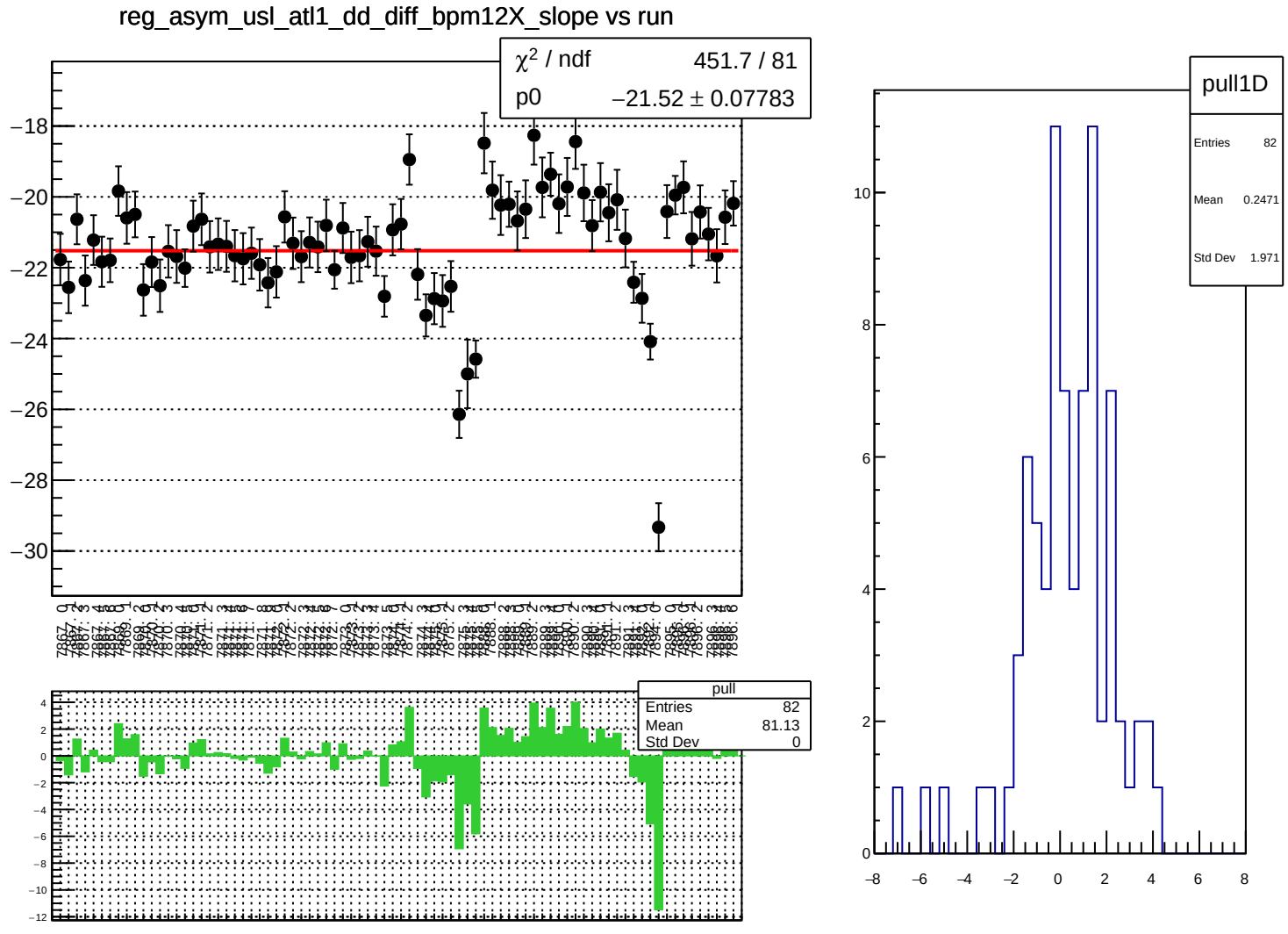

pull1D
Entries 82
Mean −0.0153
Std Dev 0.7632

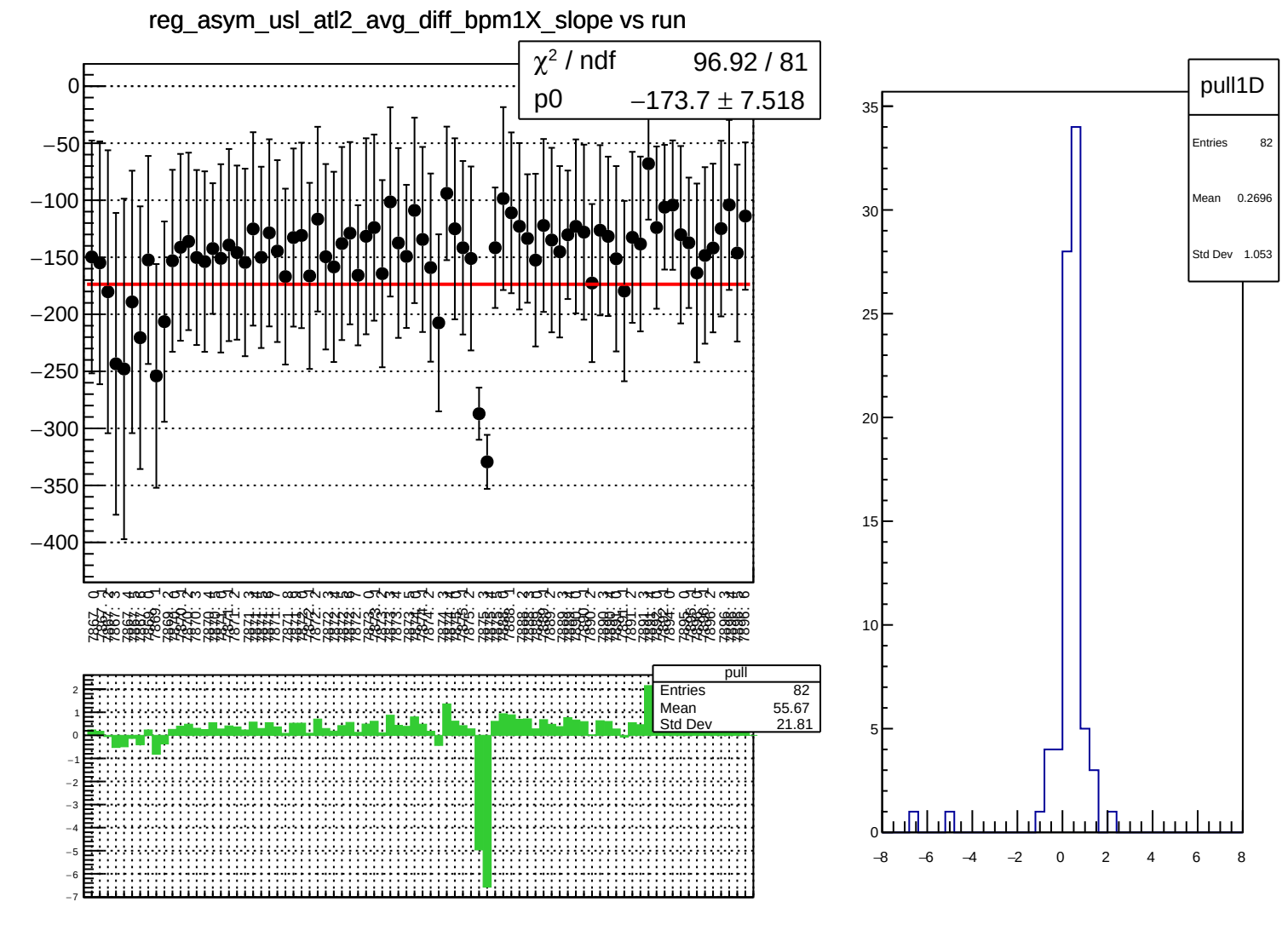

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 134.8 / 81
p0 −18.23 ± 1.705
pull
Entries 82
Mean 37.56
Std Dev 35.9

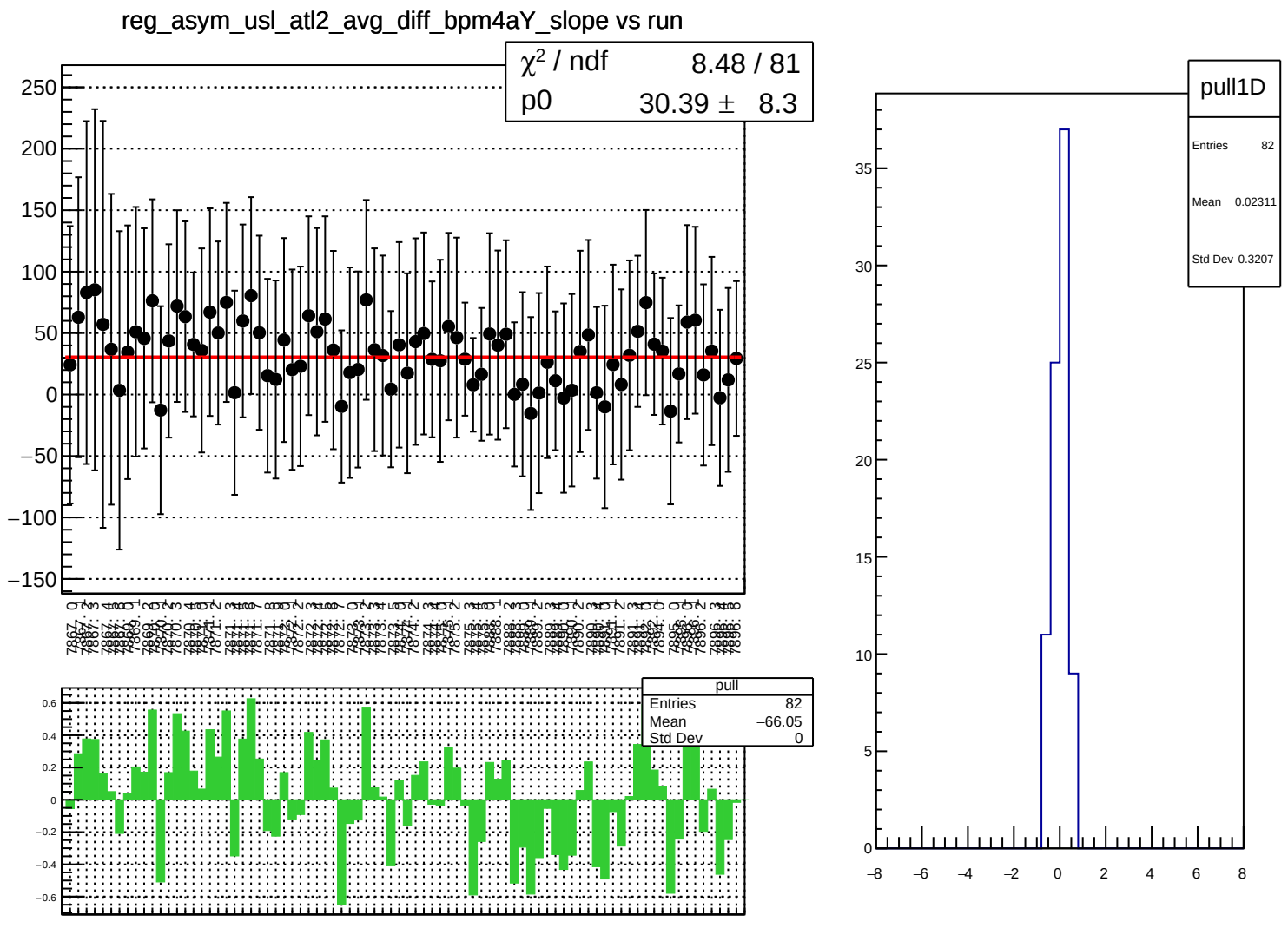

pull1D
Entries 82
Mean −0.2748
Std Dev 1.252

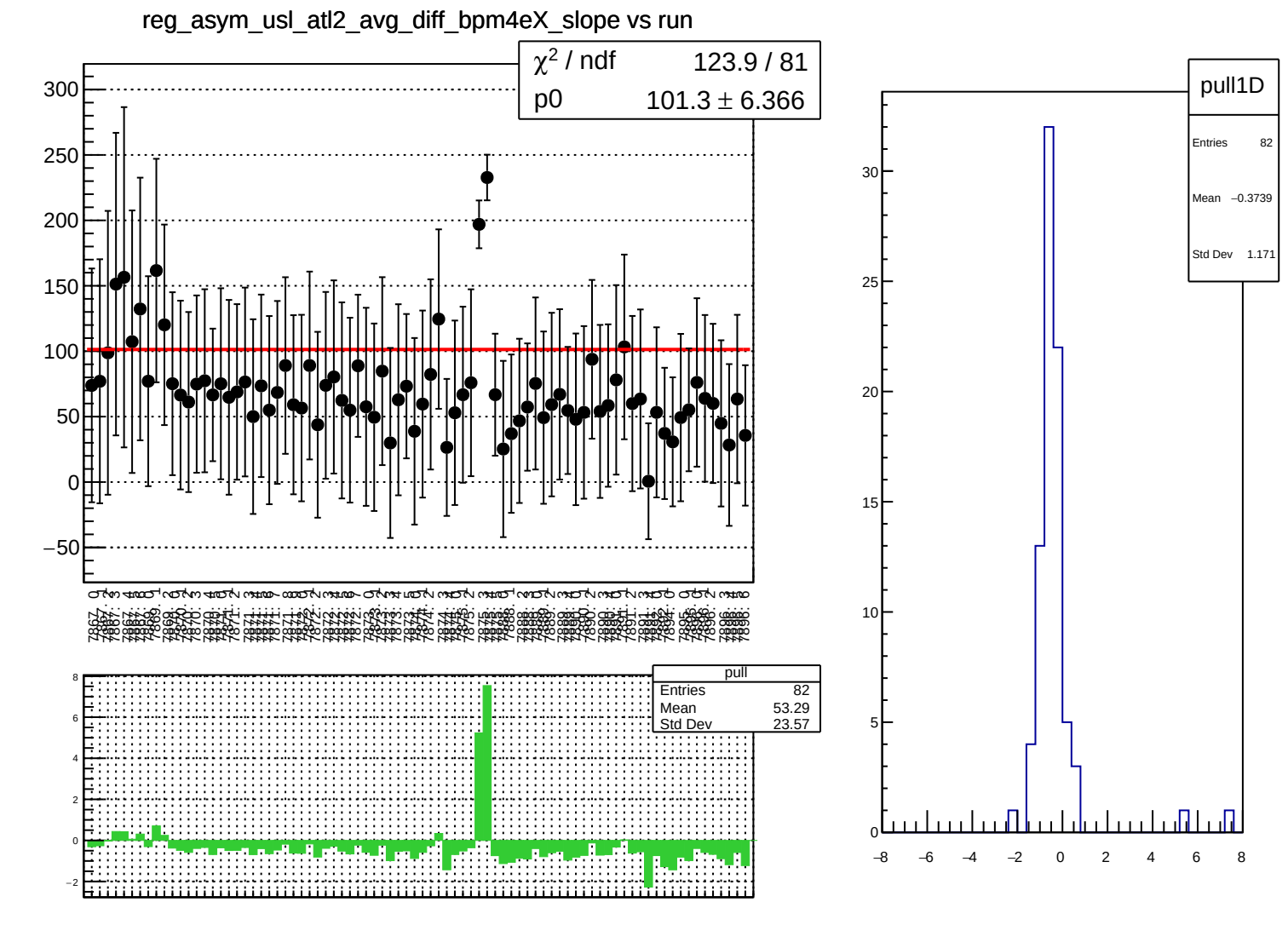

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.88 / 81
p0 12.44 ± 2.503
pull
Entries 82
Mean 173.3
Std Dev 0

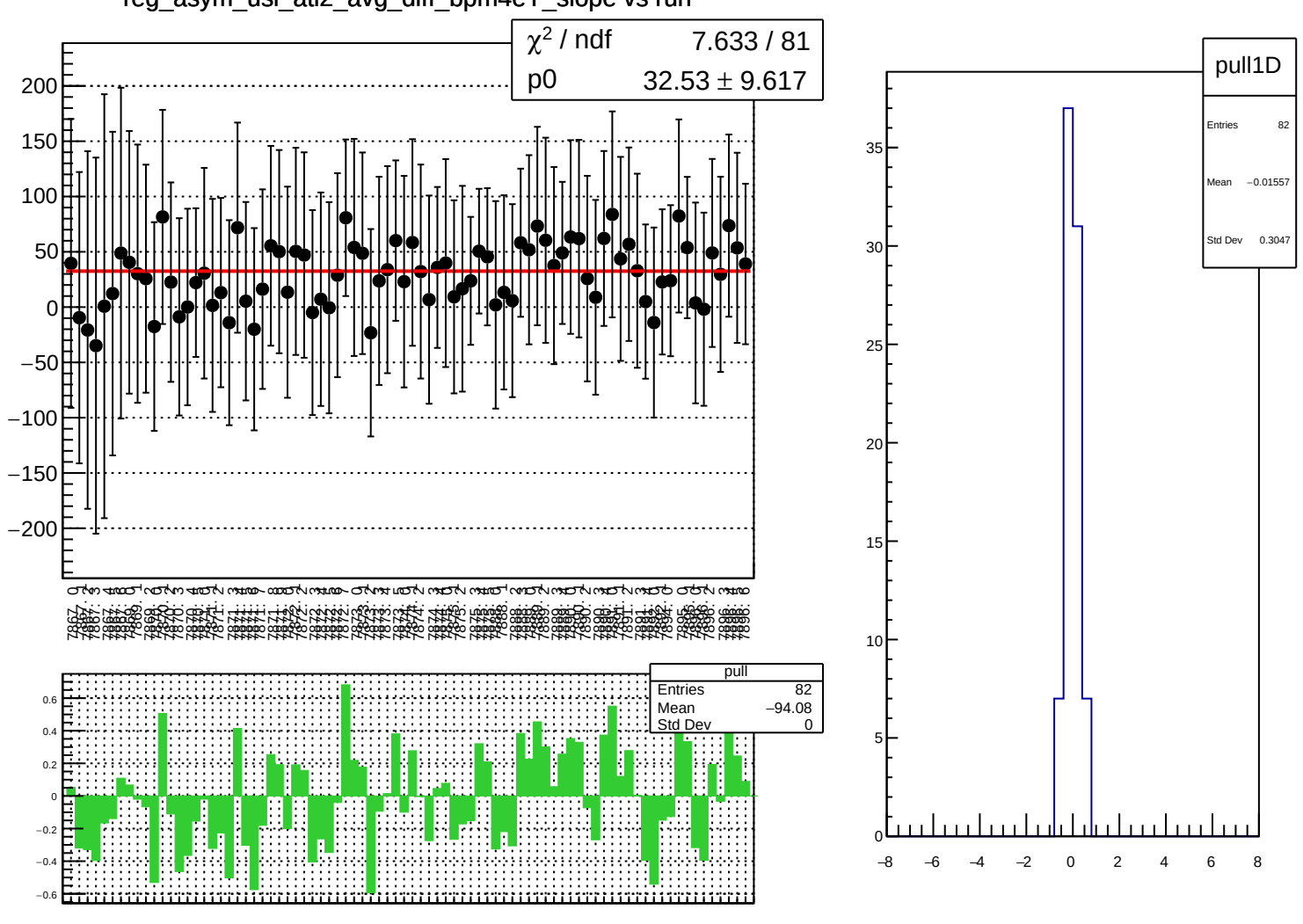

pull1D
Entries 82
Mean 0.01054
Std Dev 0.756

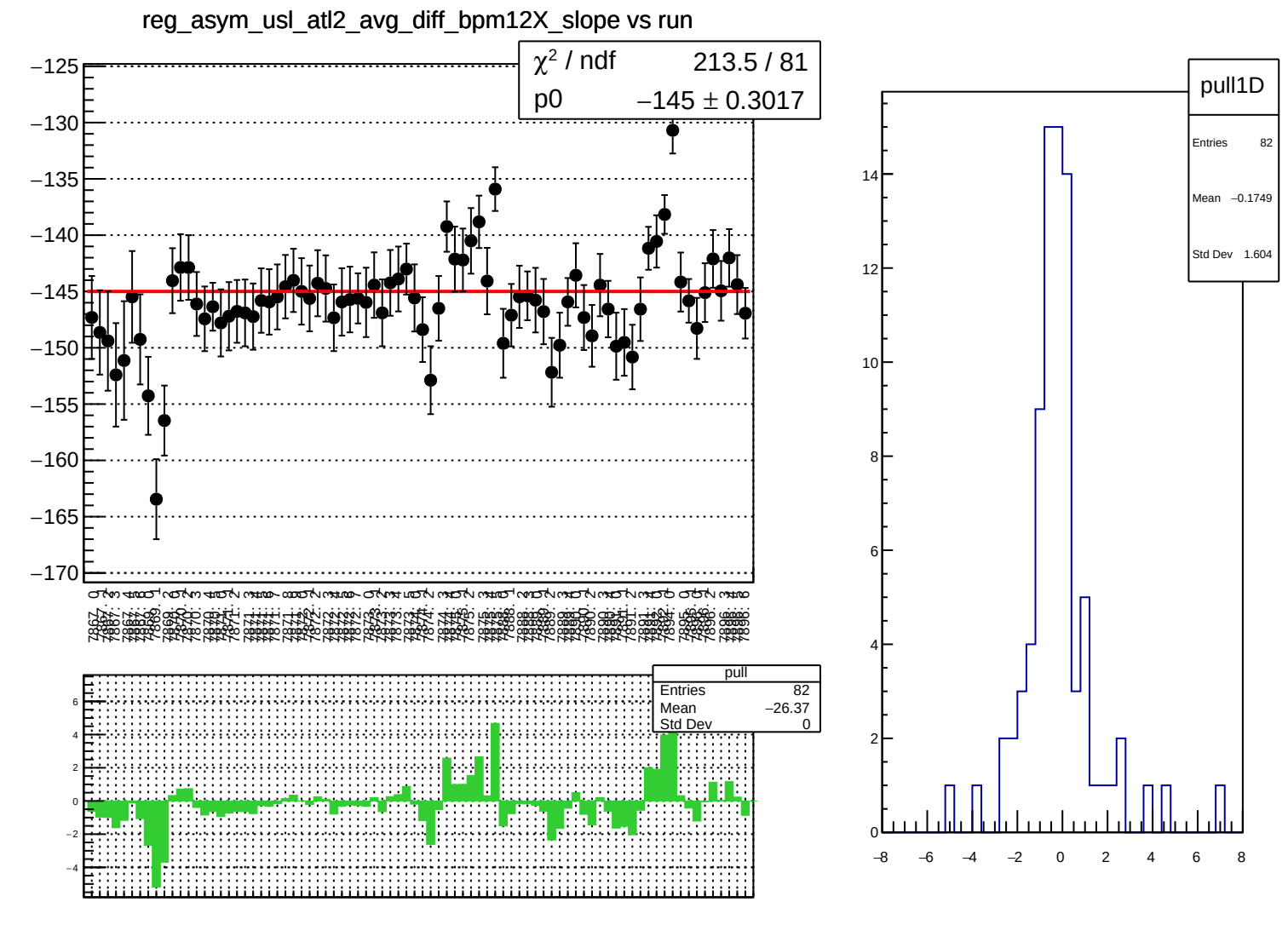

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 451.7 / 81
p0 −21.52 ± 0.07783
pull
Entries 82
Mean 81.13
Std Dev 0
pull1D
Entries 82
Mean 0.2471
Std Dev 1.971

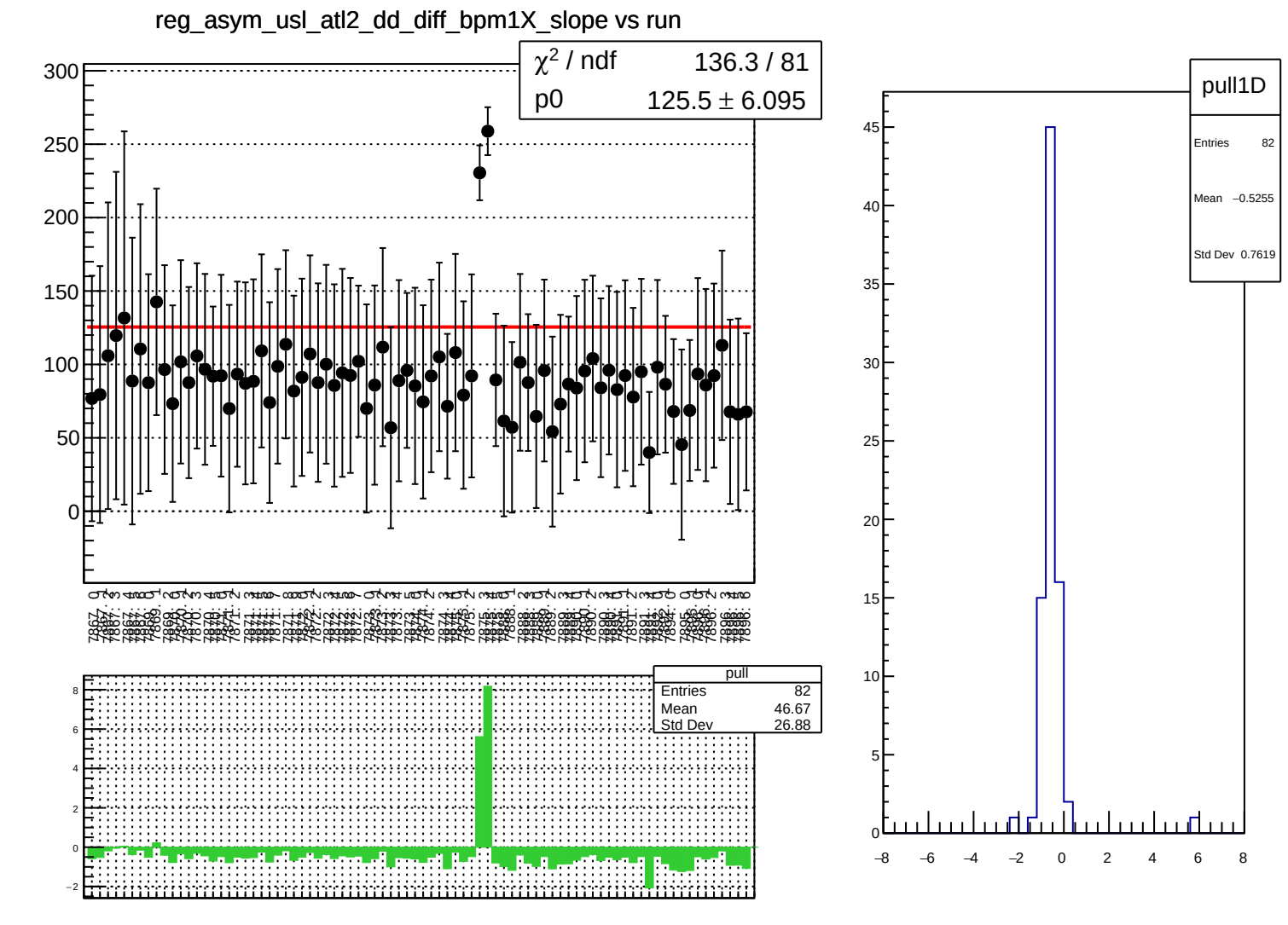

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 96.92 / 81
p0 −173.7 ± 7.518
pull
Entries 82
Mean 55.67
Std Dev 21.81
pull1D
Entries 82
Mean 0.2696
Std Dev 1.053

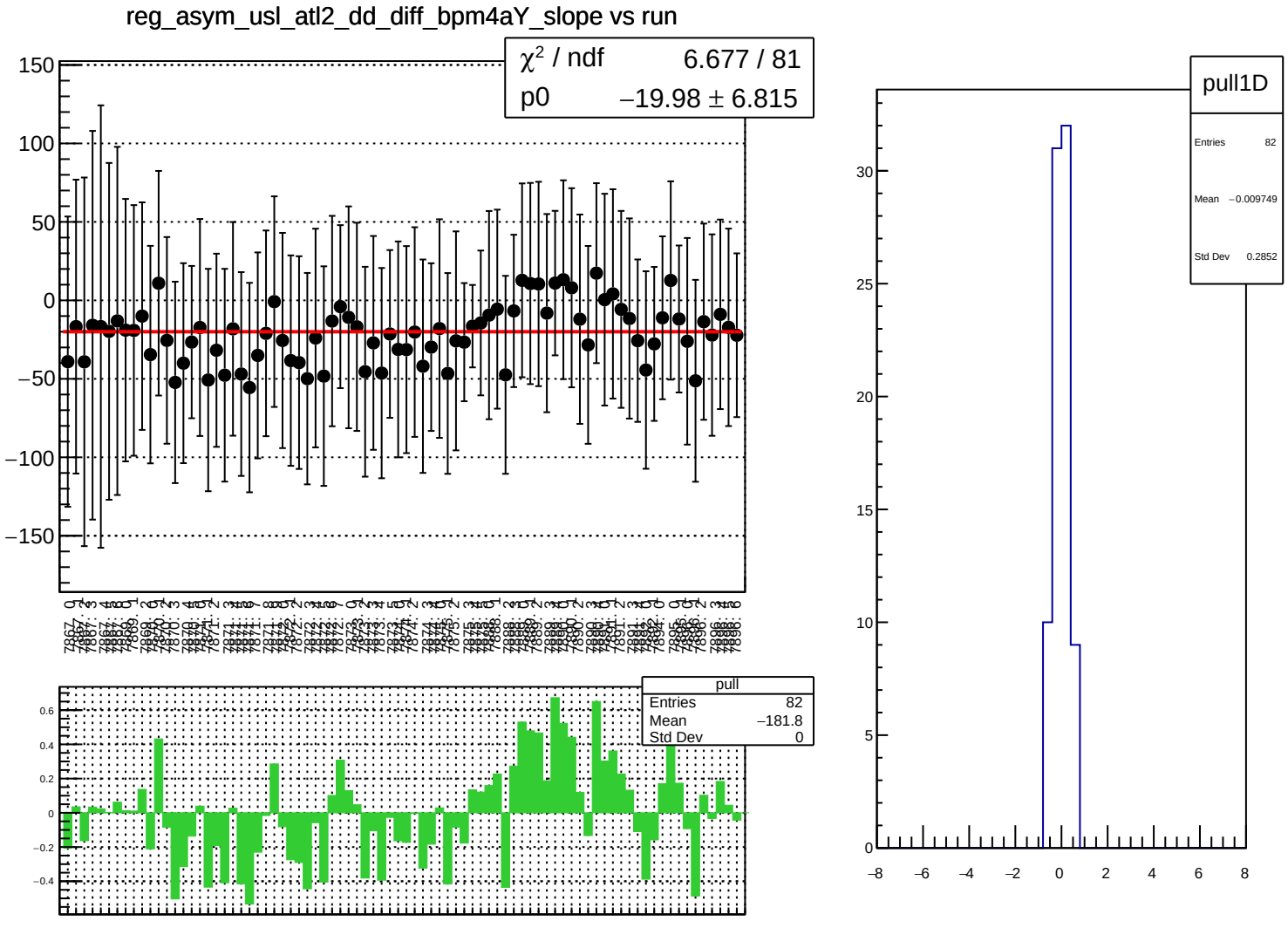

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.48 / 81
p0 30.39 ± 8.3
pull
Entries 82
Mean −66.05
Std Dev 0
pull1D
Entries 82
Mean 0.02311
Std Dev 0.3207

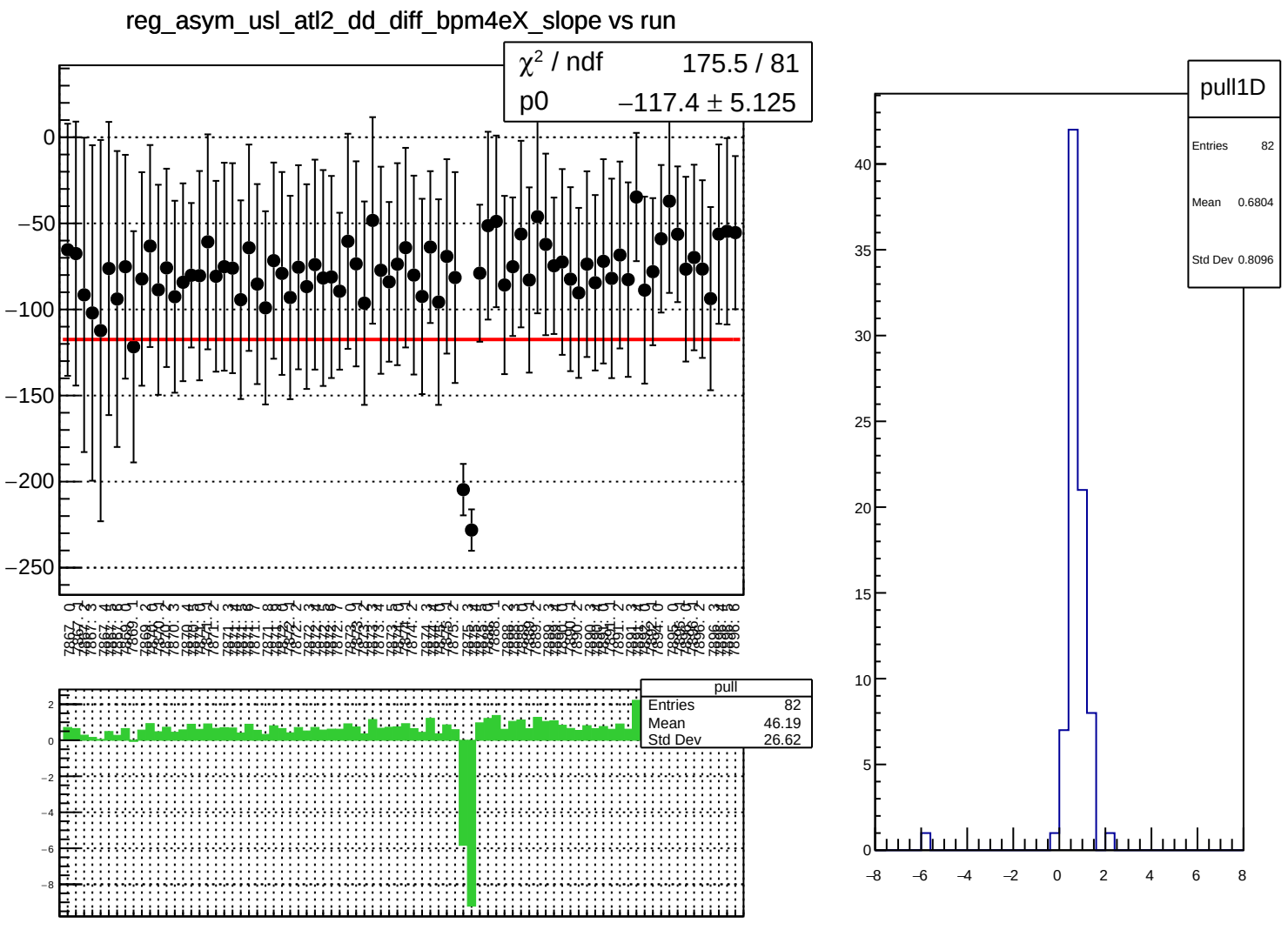

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 123.9 / 81
p0 101.3 ± 6.366
pull
Entries 82
Mean 53.29
Std Dev 23.57
pull1D
Entries 82
Mean −0.3739
Std Dev 1.171

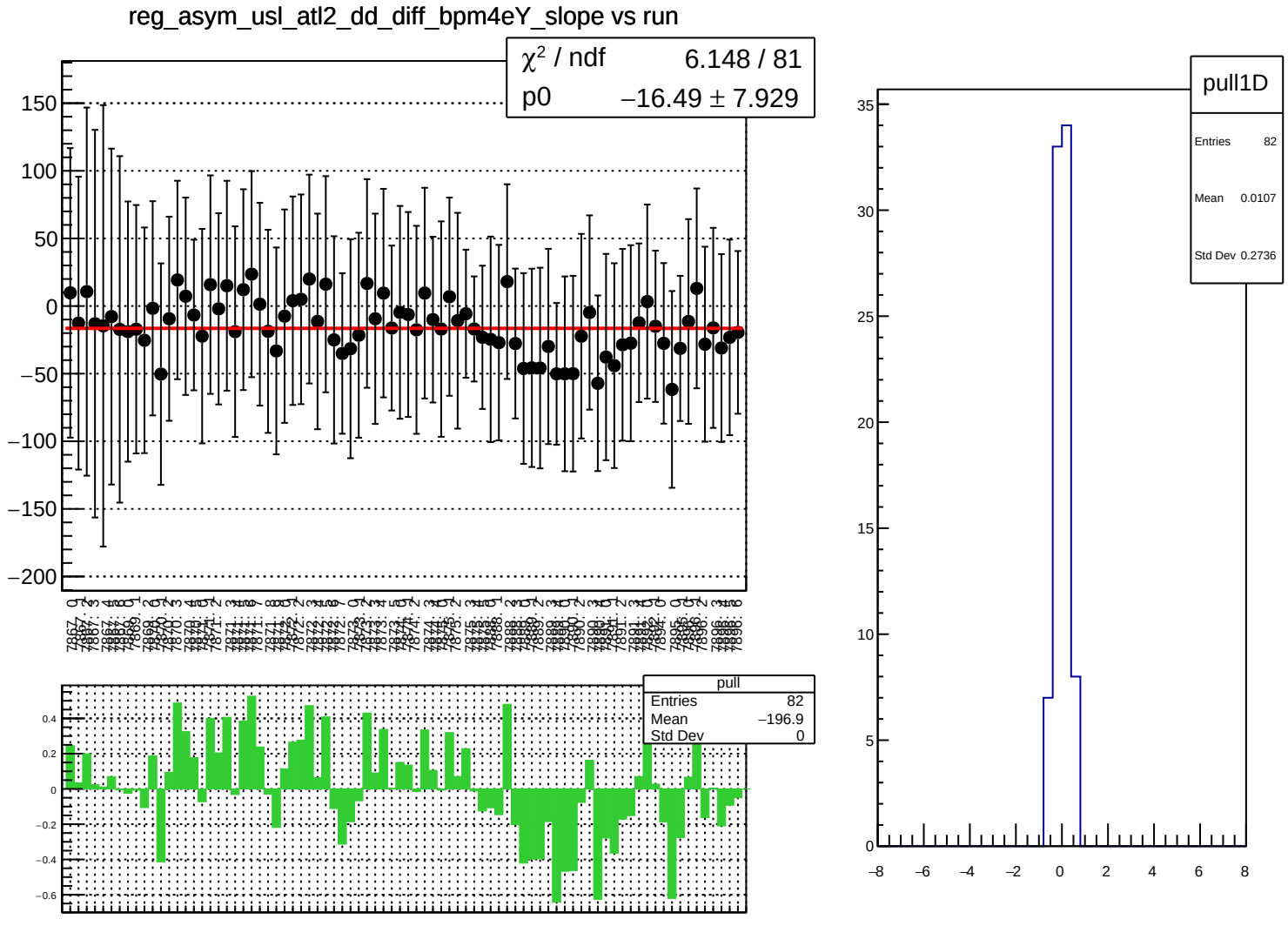

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.633 / 81
p0 32.53 ± 9.617
pull
Entries 82
Mean −94.08
Std Dev 0
pull1D
Entries 82
Mean −0.01557
Std Dev 0.3047

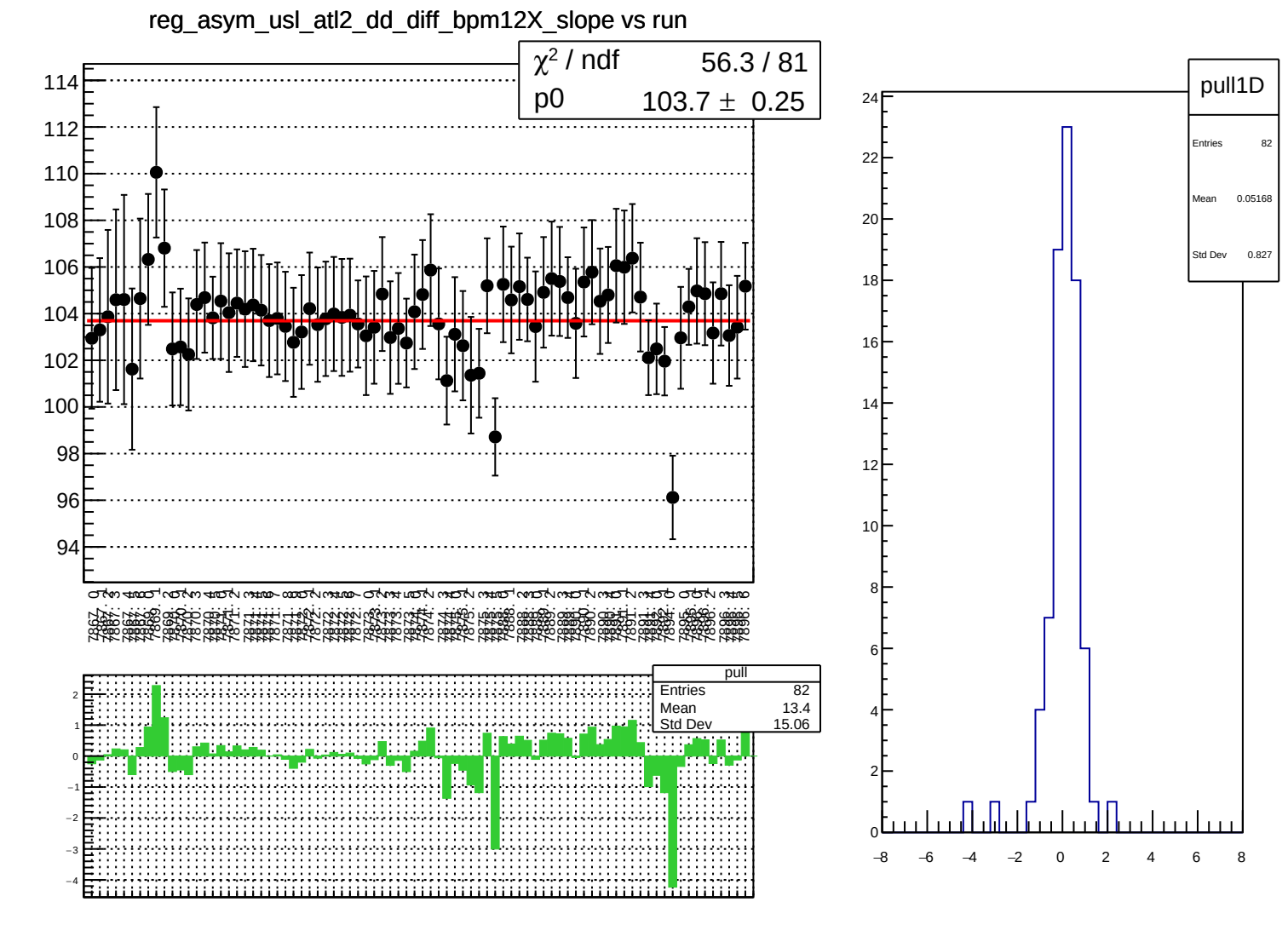

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 213.5 / 81
p0 −145 ± 0.3017
pull
Entries 82
Mean −26.37
Std Dev 0
pull1D
Entries 82
Mean −0.1749
Std Dev 1.604

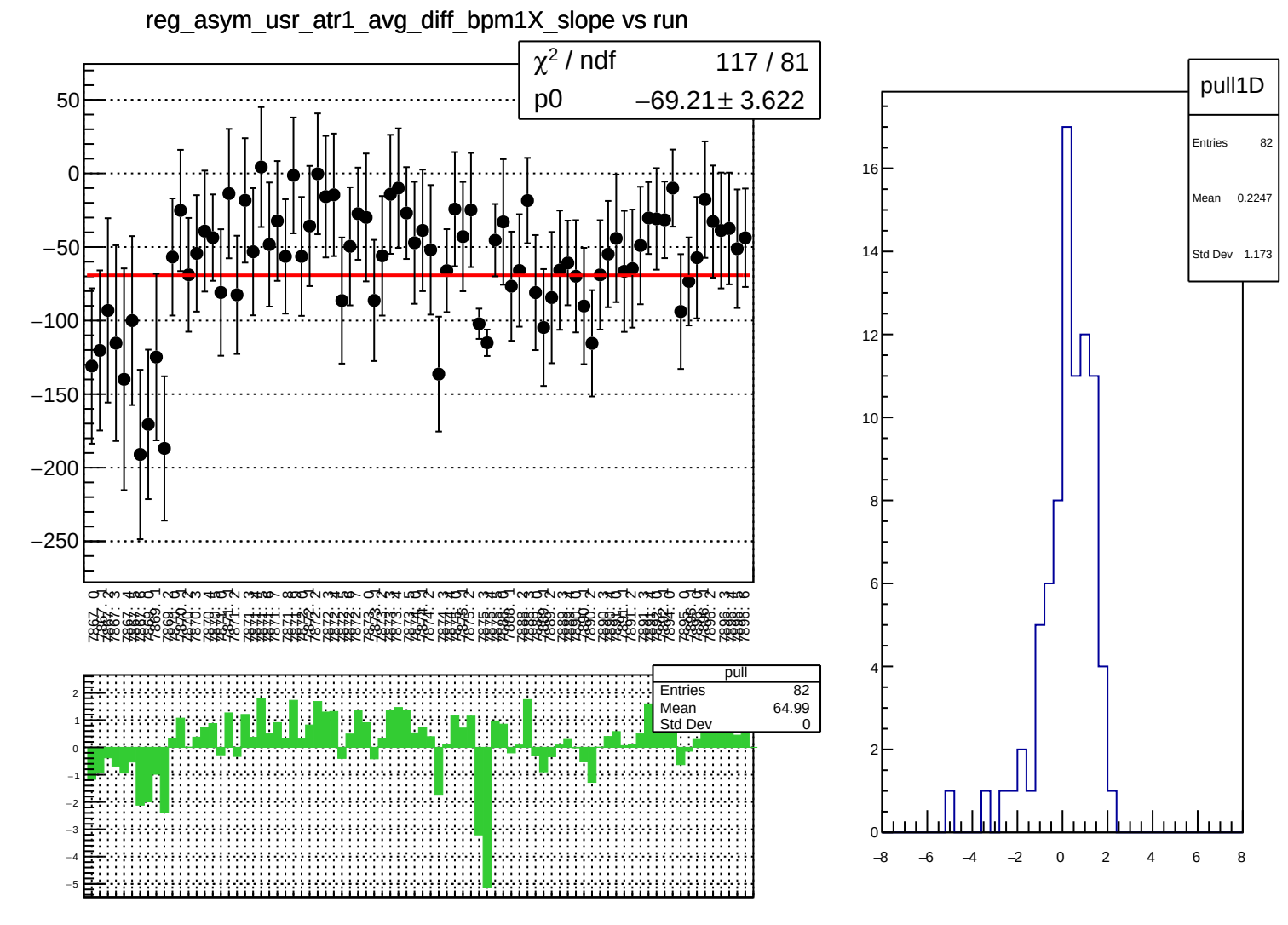

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 136.3 / 81
p0 125.5 ± 6.095
pull
Entries 82
Mean 46.67
Std Dev 26.88
pull1D
Entries 82
Mean −0.5255
Std Dev 0.7619

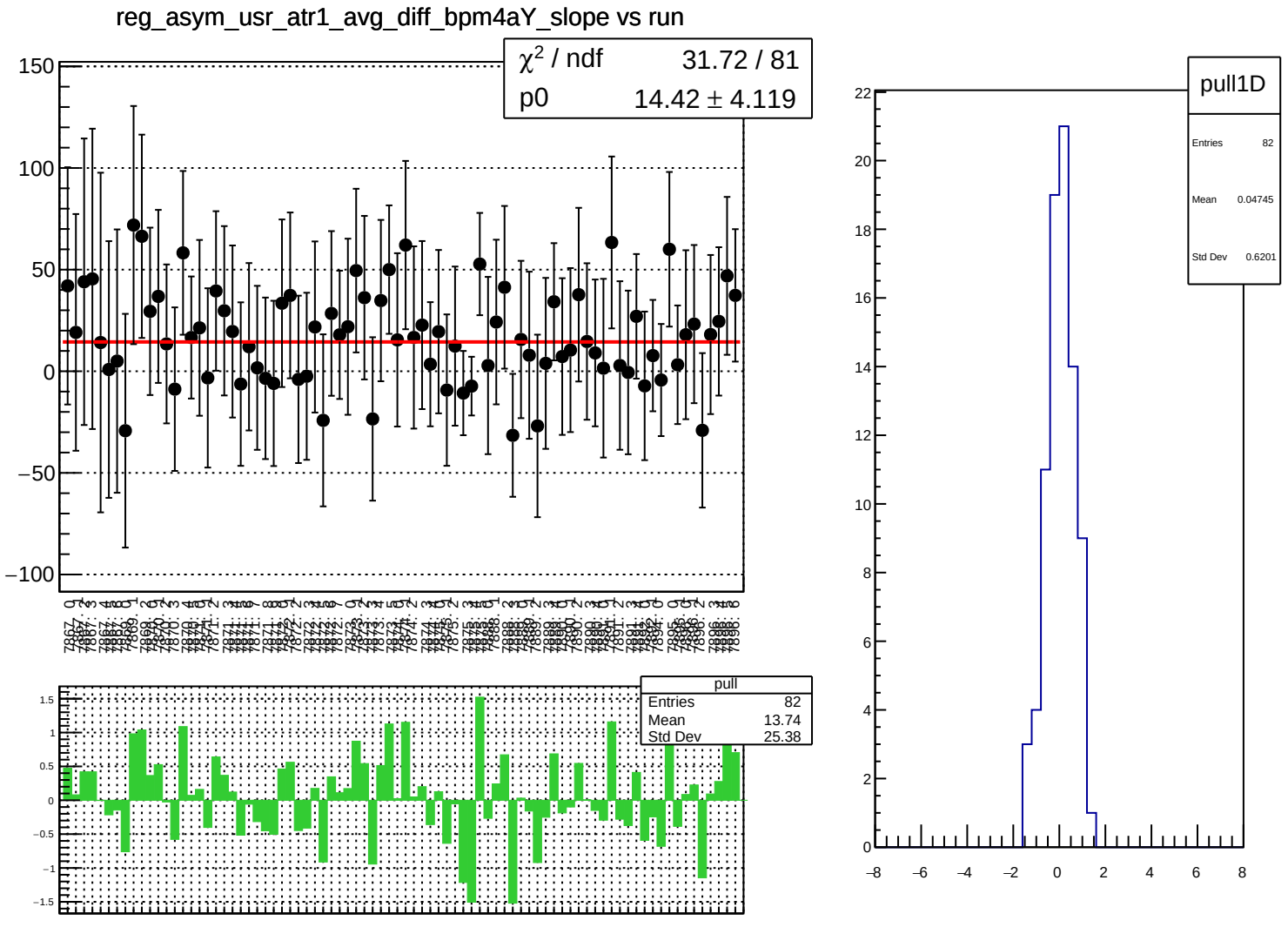

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.677 / 81
p0 −19.98 ± 6.815
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −181.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 82
Mean −0.009749
Std Dev 0.2852
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

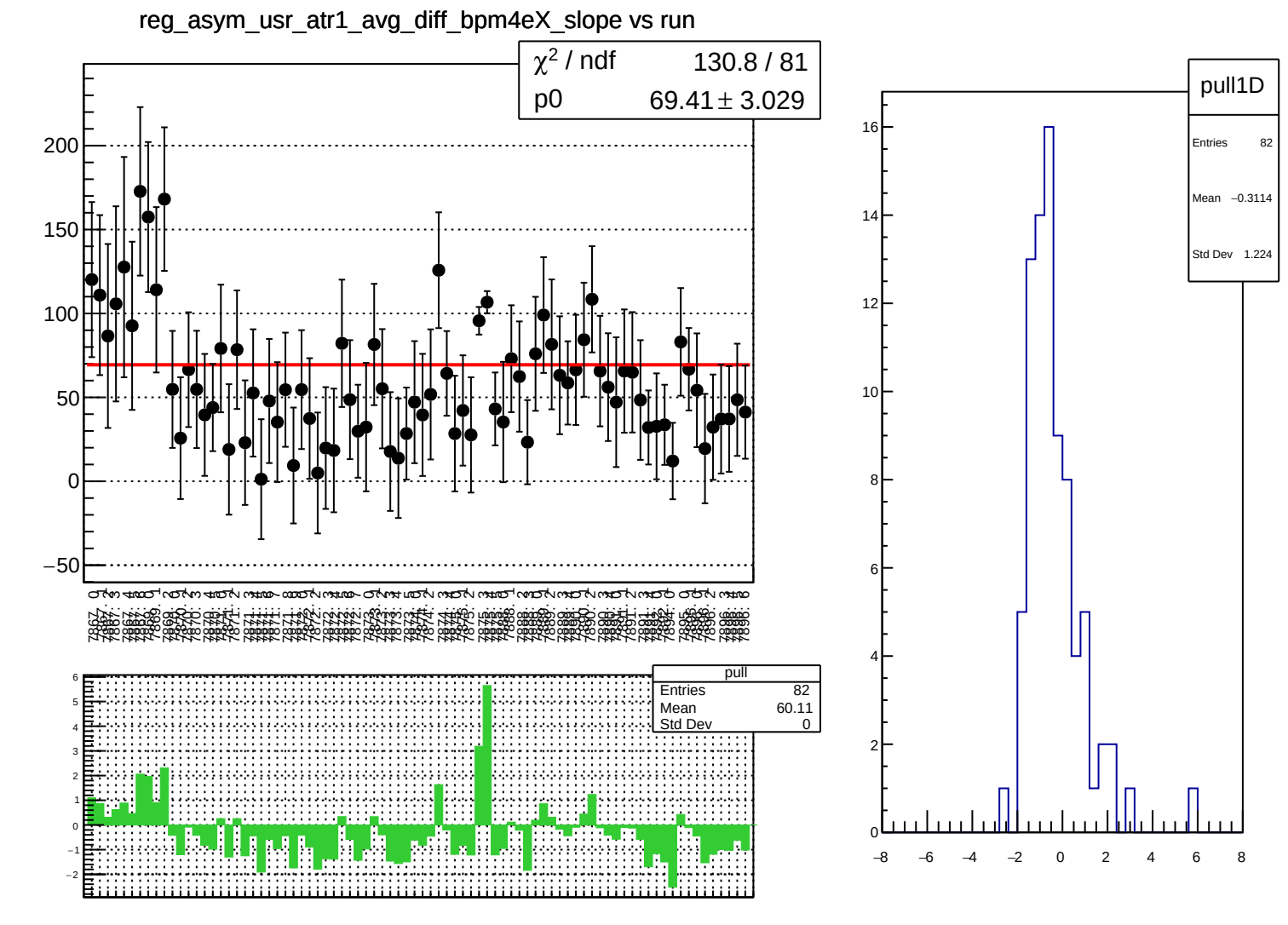

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 175.5 / 81
p0 −117.4 ± 5.125
pull
Entries 82
Mean 46.19
Std Dev 26.62
pull1D
Entries 82
Mean 0.6804
Std Dev 0.8096

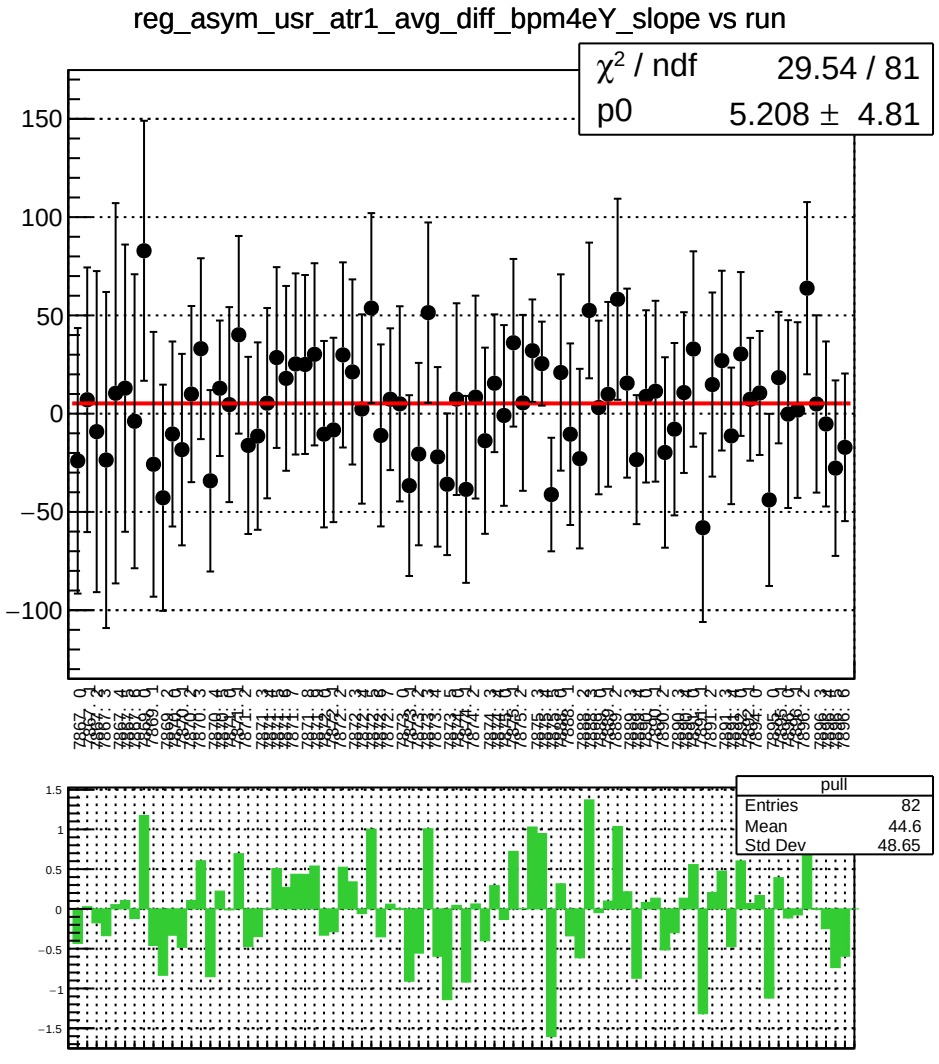

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.148 / 81
p0 −16.49 ± 7.929
pull
Entries 82
Mean −196.9
Std Dev 0
pull1D
Entries 82
Mean 0.0107
Std Dev 0.2736

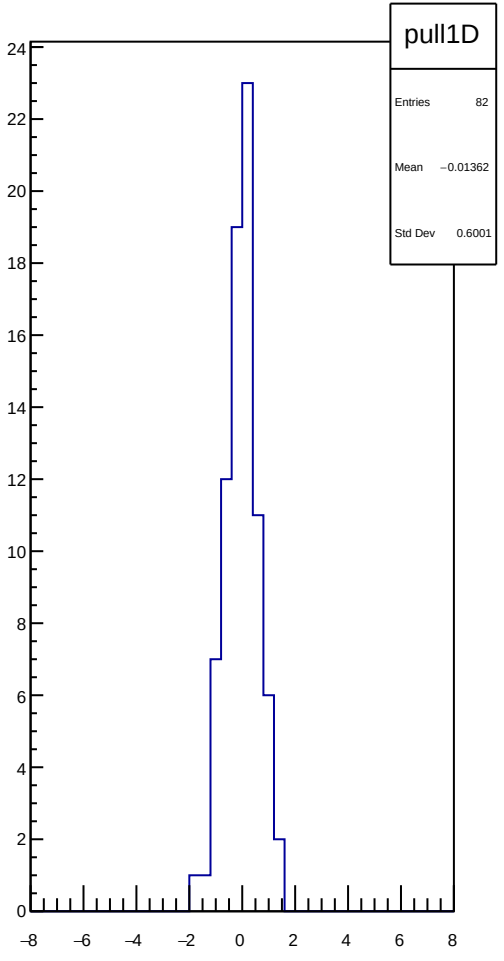

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 56.3 / 81
p0 103.7 ± 0.25
pull
Entries 82
Mean 13.4
Std Dev 15.06
pull1D
Entries 82
Mean 0.05168
Std Dev 0.827

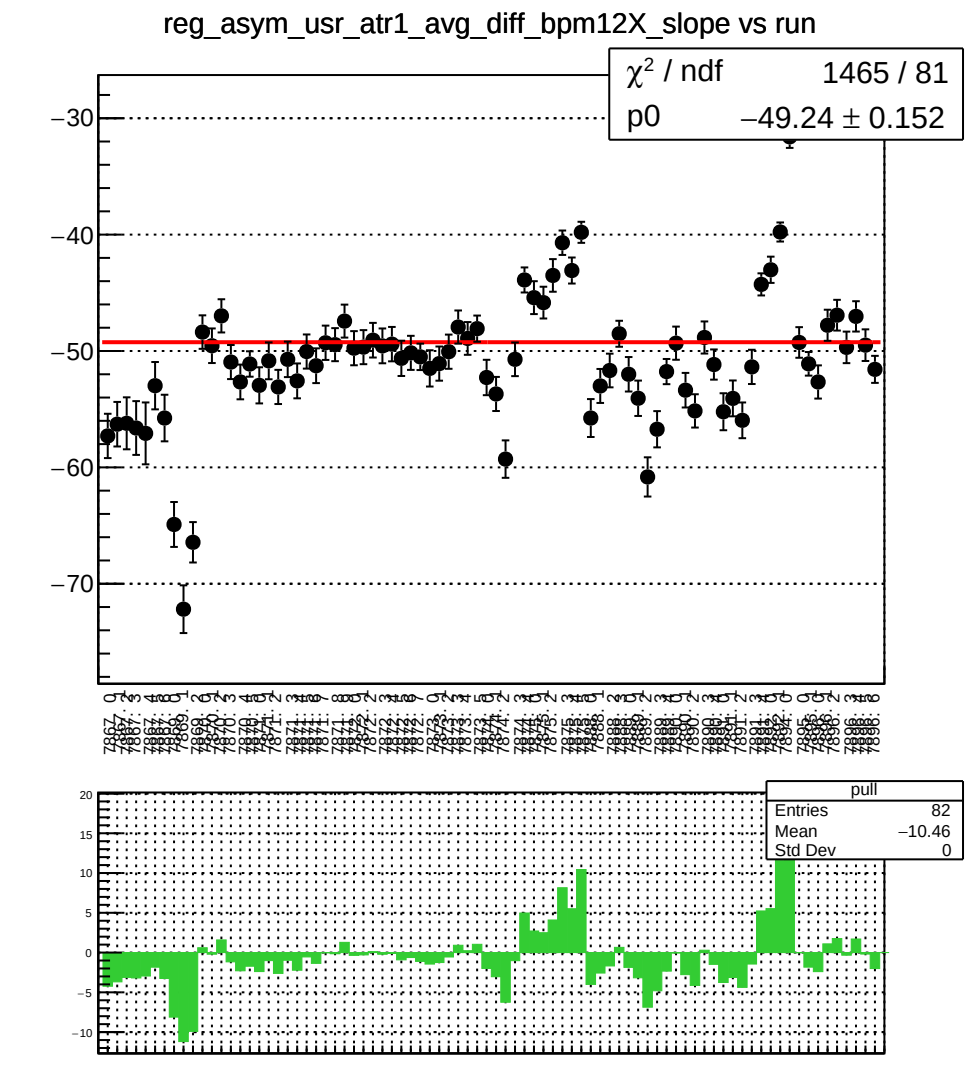

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 117 / 81
p0 −69.21 ± 3.622
pull
Entries 82
Mean 64.99
Std Dev 0
pull1D
Entries 82
Mean 0.2247
Std Dev 1.173

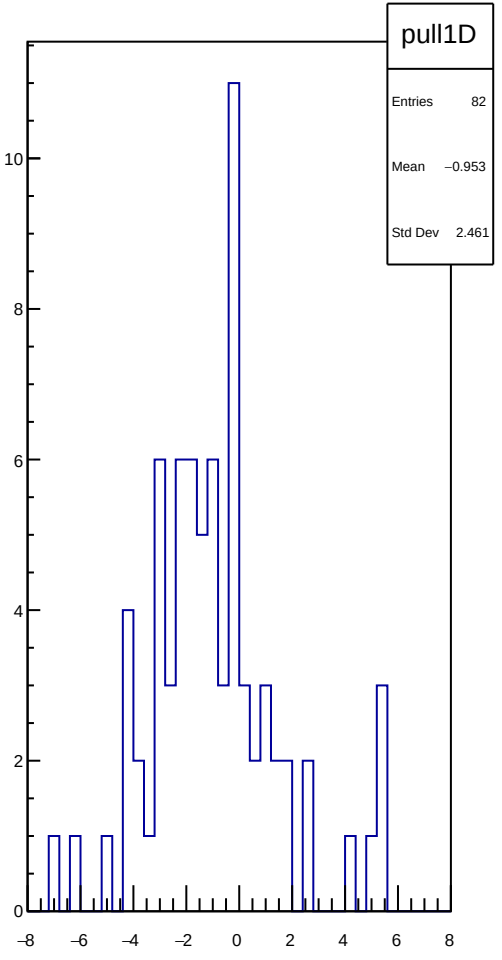

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.72 / 81
p0 14.42 ± 4.119
150
100
50
0
−50
−100
pull
Entries 82
Mean 13.74
Std Dev 25.38
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.04745
Std Dev 0.6201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

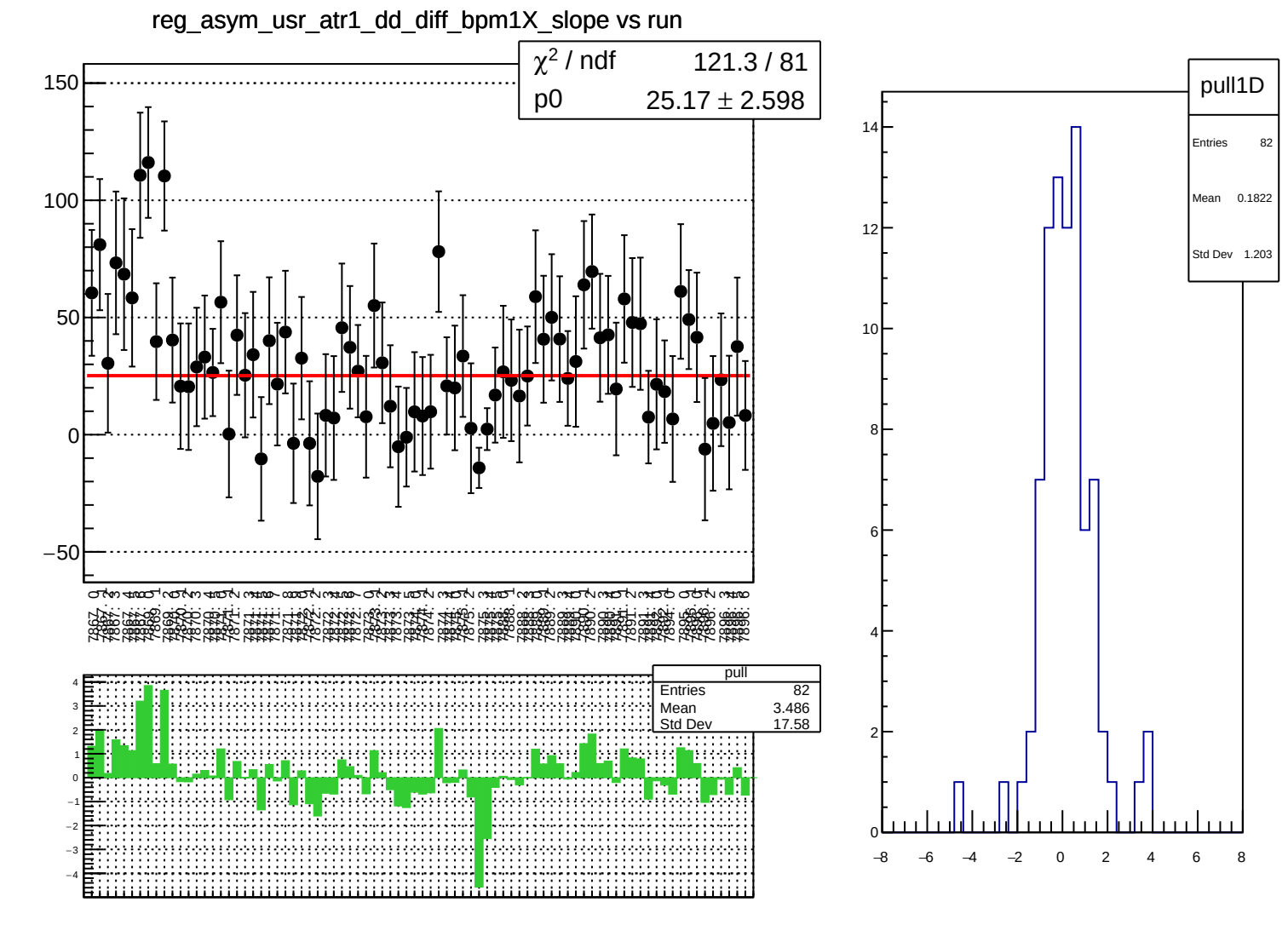

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.8 / 81
p0 69.41 ± 3.029
pull
Entries 82
Mean 60.11
Std Dev 0
pull1D
Entries 82
Mean −0.3114
Std Dev 1.224

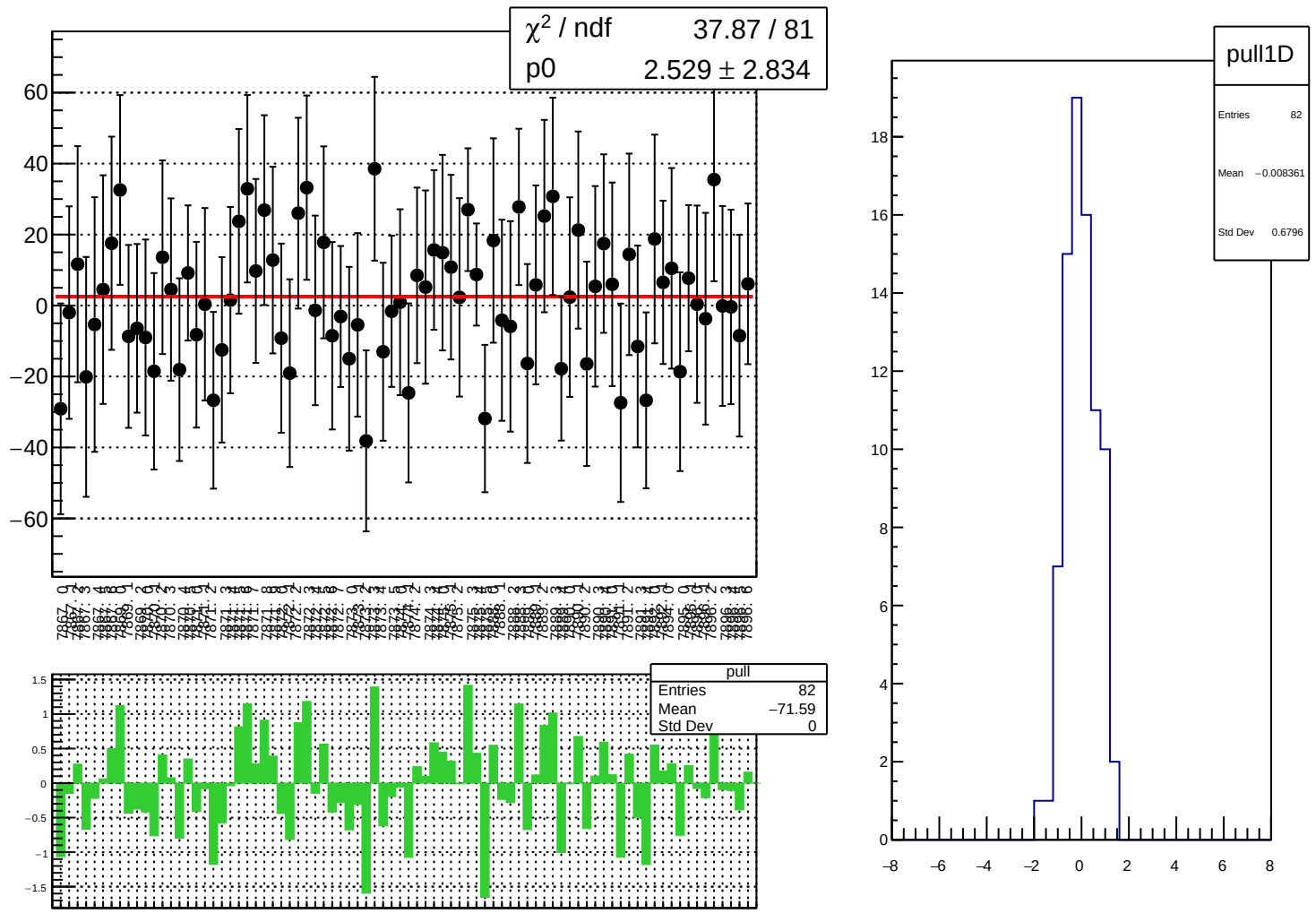

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.54 / 81
p0 5.208 ± 4.81
pull
Entries 82
Mean 44.6
Std Dev 48.65

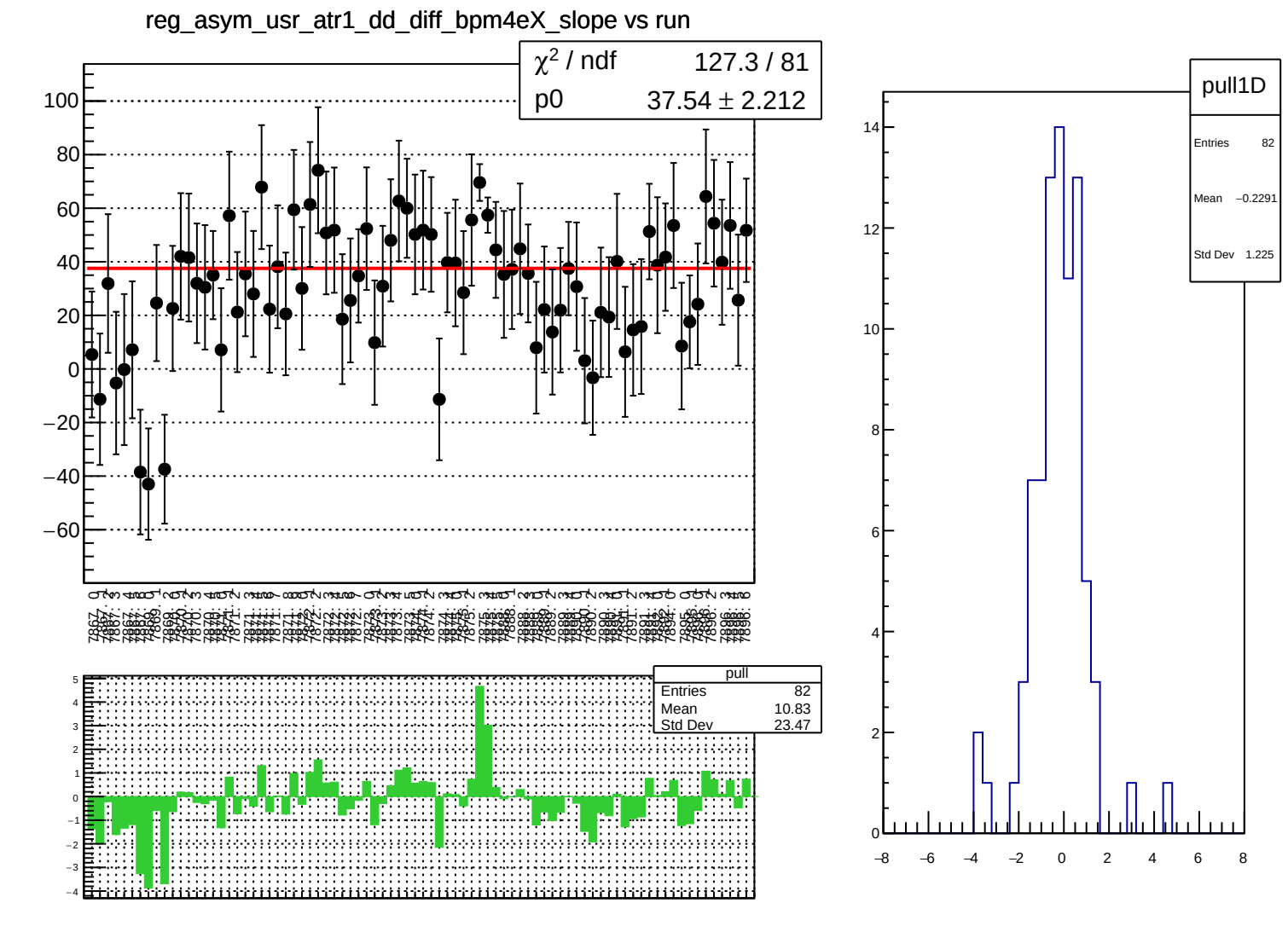

pull1D
Entries 82
Mean −0.01362
Std Dev 0.6001

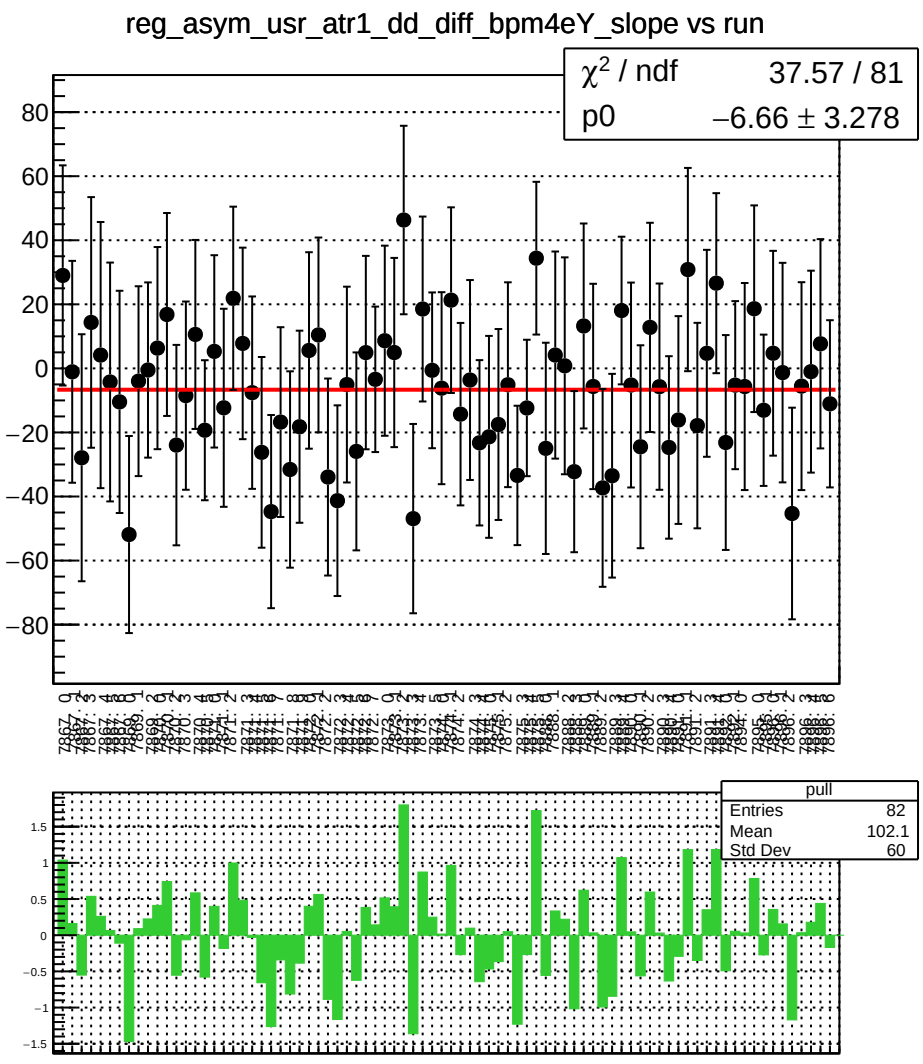

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 1465 / 81
p0 −49.24 ± 0.152
pull
Entries 82
Mean −10.46
Std Dev 0

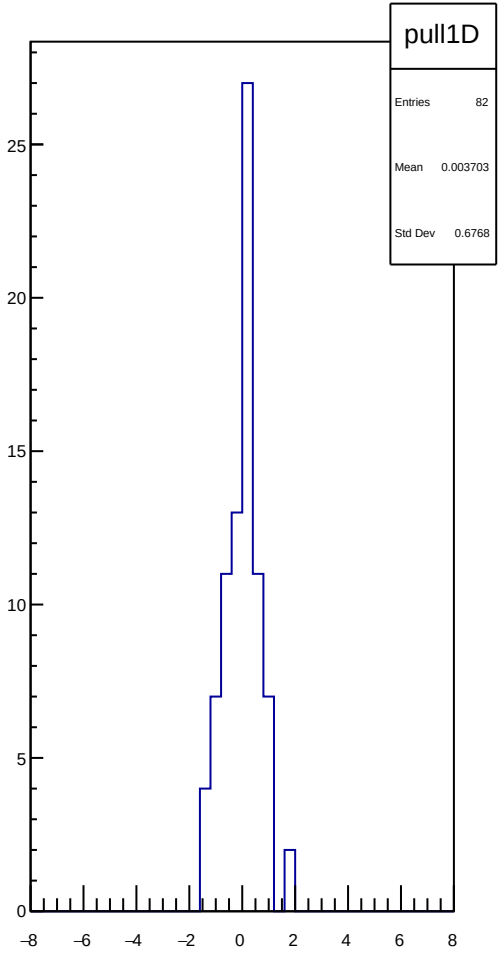

pull1D
Entries 82
Mean −0.953
Std Dev 2.461

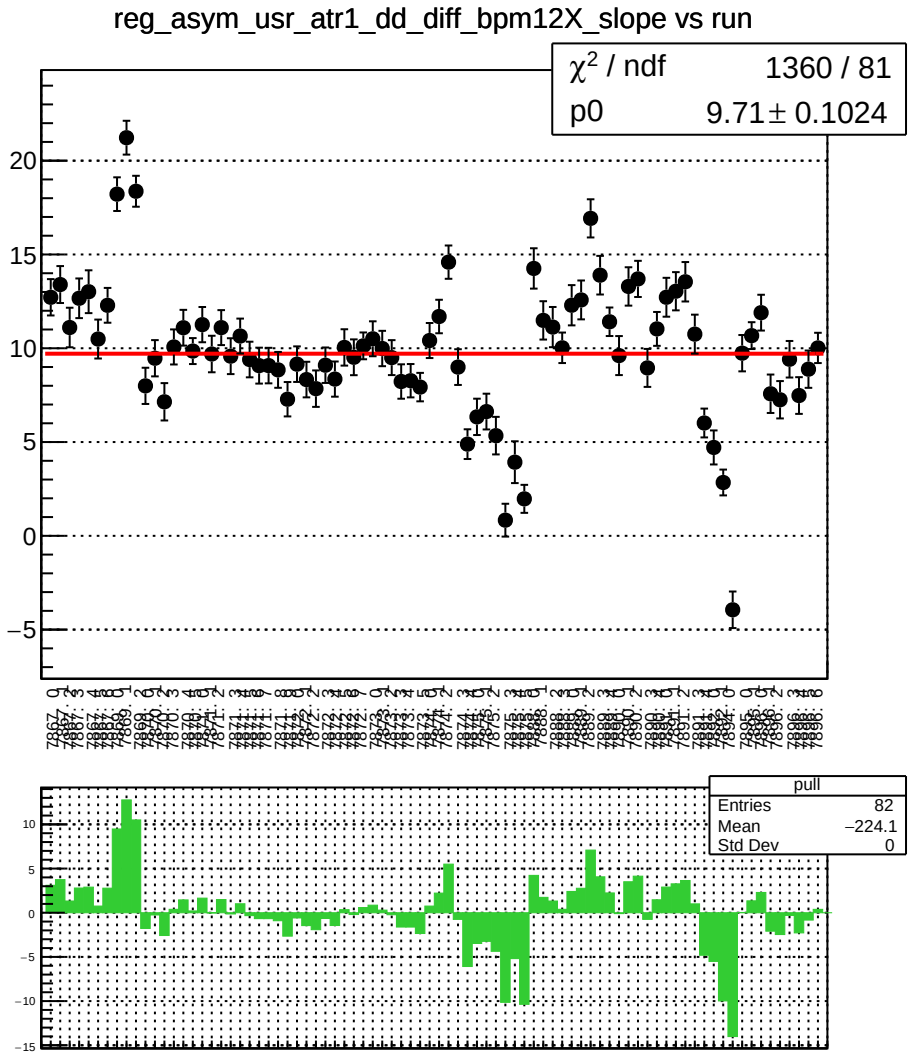

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 121.3 / 81
p0 25.17 ± 2.598
150
100
50
0
−50
pull
Entries 82
Mean 3.486
Std Dev 17.58
pull1D
Entries 82
Mean 0.1822
Std Dev 1.203

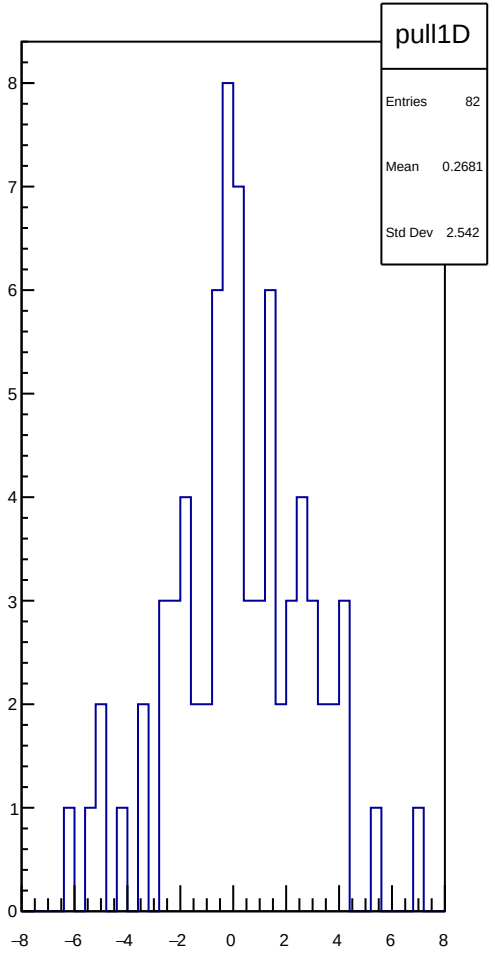

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.87 / 81
p0 2.529 ± 2.834
pull
Entries 82
Mean −71.59
Std Dev 0
pull1D
Entries 82
Mean −0.008361
Std Dev 0.6796

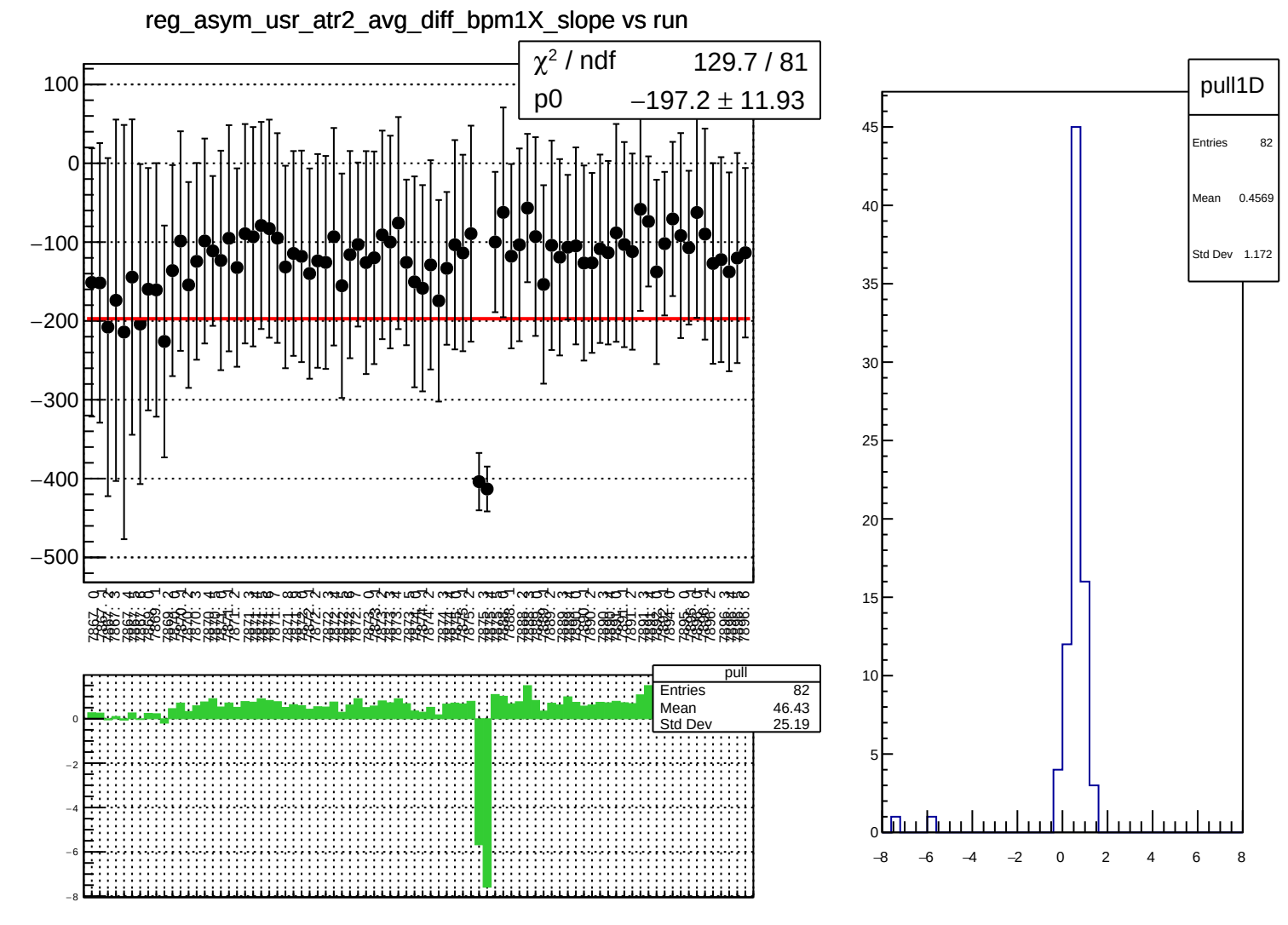

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 127.3 / 81
p0 37.54 ± 2.212
pull
Entries 82
Mean 10.83
Std Dev 23.47
pull1D
Entries 82
Mean −0.2291
Std Dev 1.225

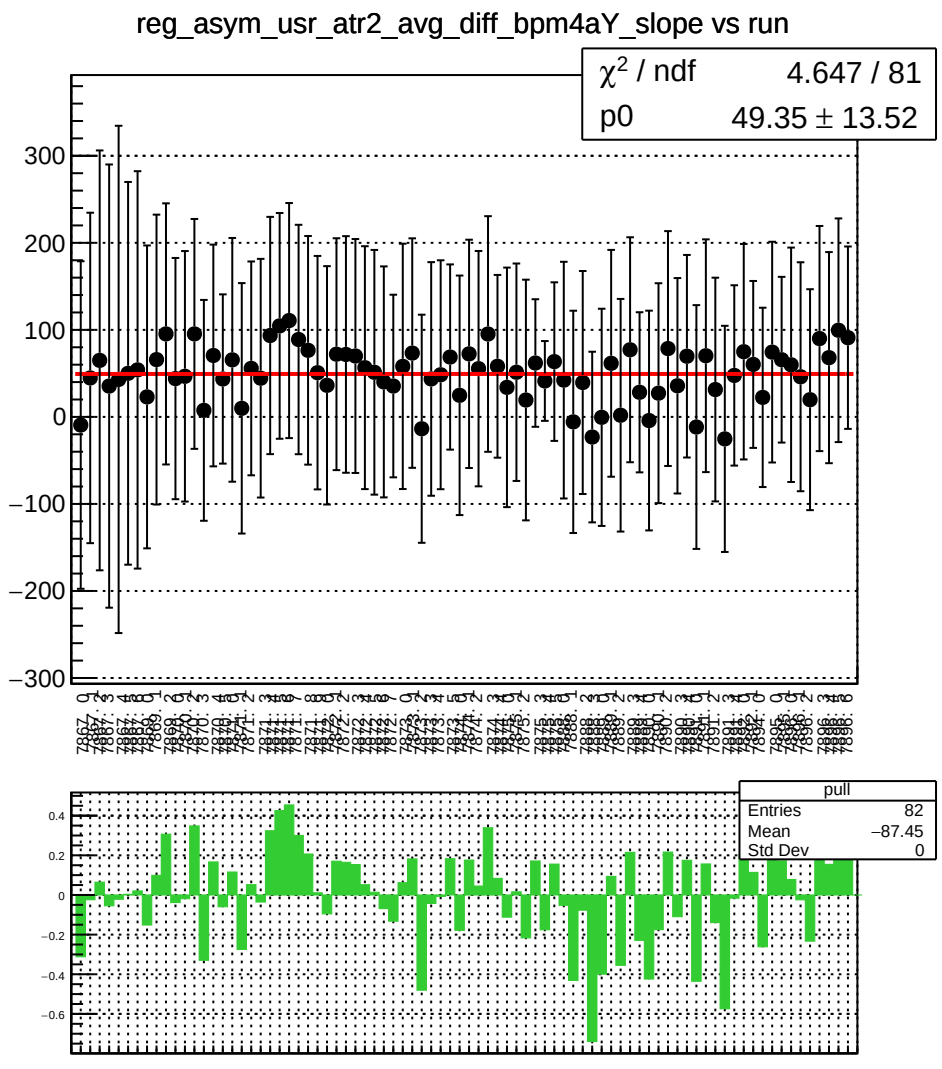

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.57 / 81
p0 −6.66 ± 3.278
pull
Entries 82
Mean 102.1
Std Dev 60

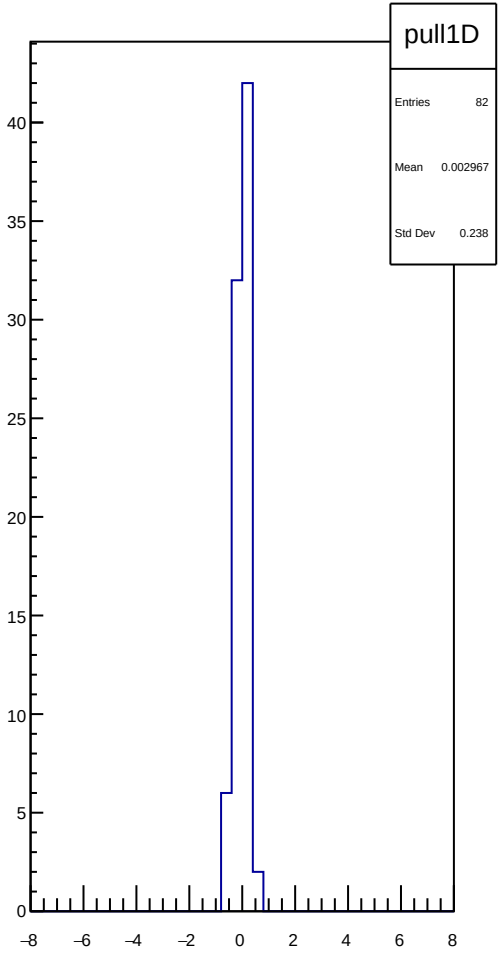

pull1D
Entries 82
Mean 0.003703
Std Dev 0.6768

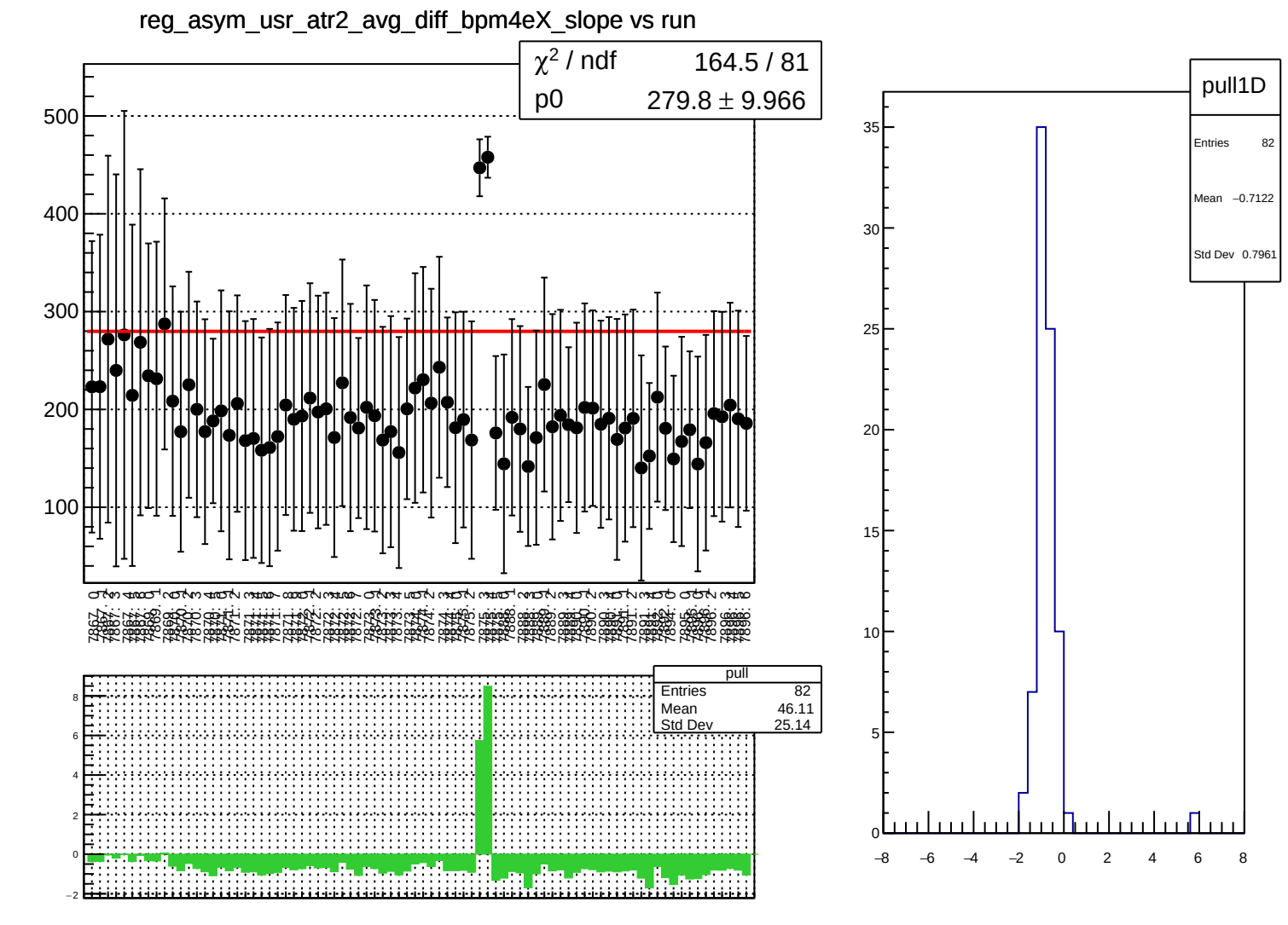

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 1360 / 81
p0 9.71 ± 0.1024
pull
Entries 82
Mean −224.1
Std Dev 0

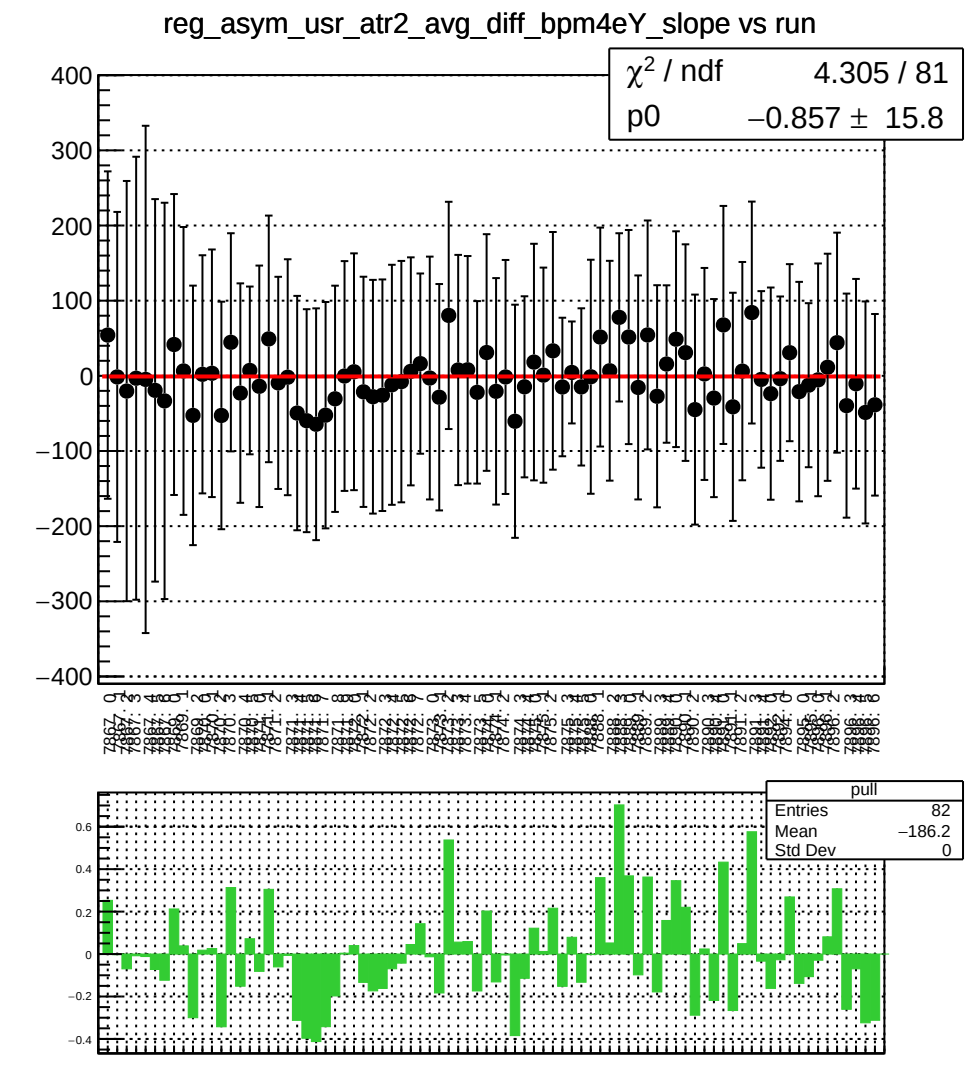

pull1D
Entries 82
Mean 0.2681
Std Dev 2.542

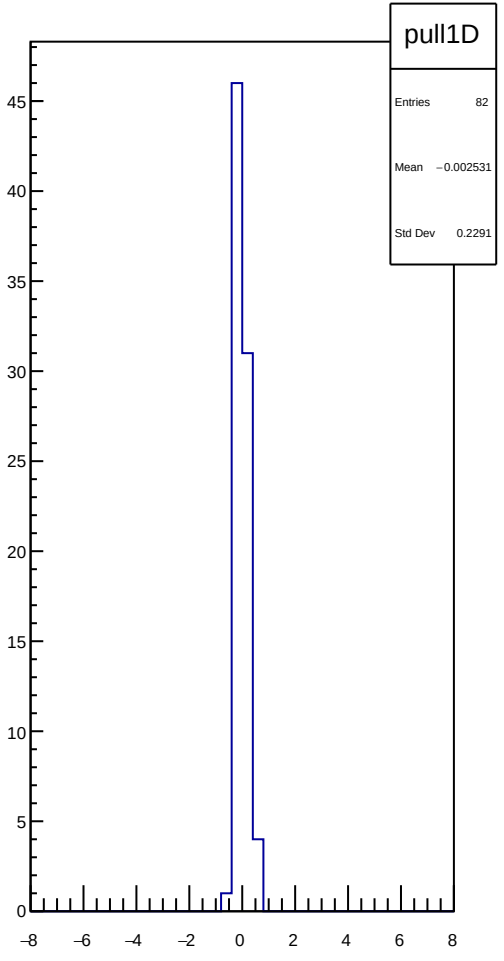

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 129.7 / 81
p0 −197.2 ± 11.93
pull
Entries 82
Mean 46.43
Std Dev 25.19
pull1D
Entries 82
Mean 0.4569
Std Dev 1.172

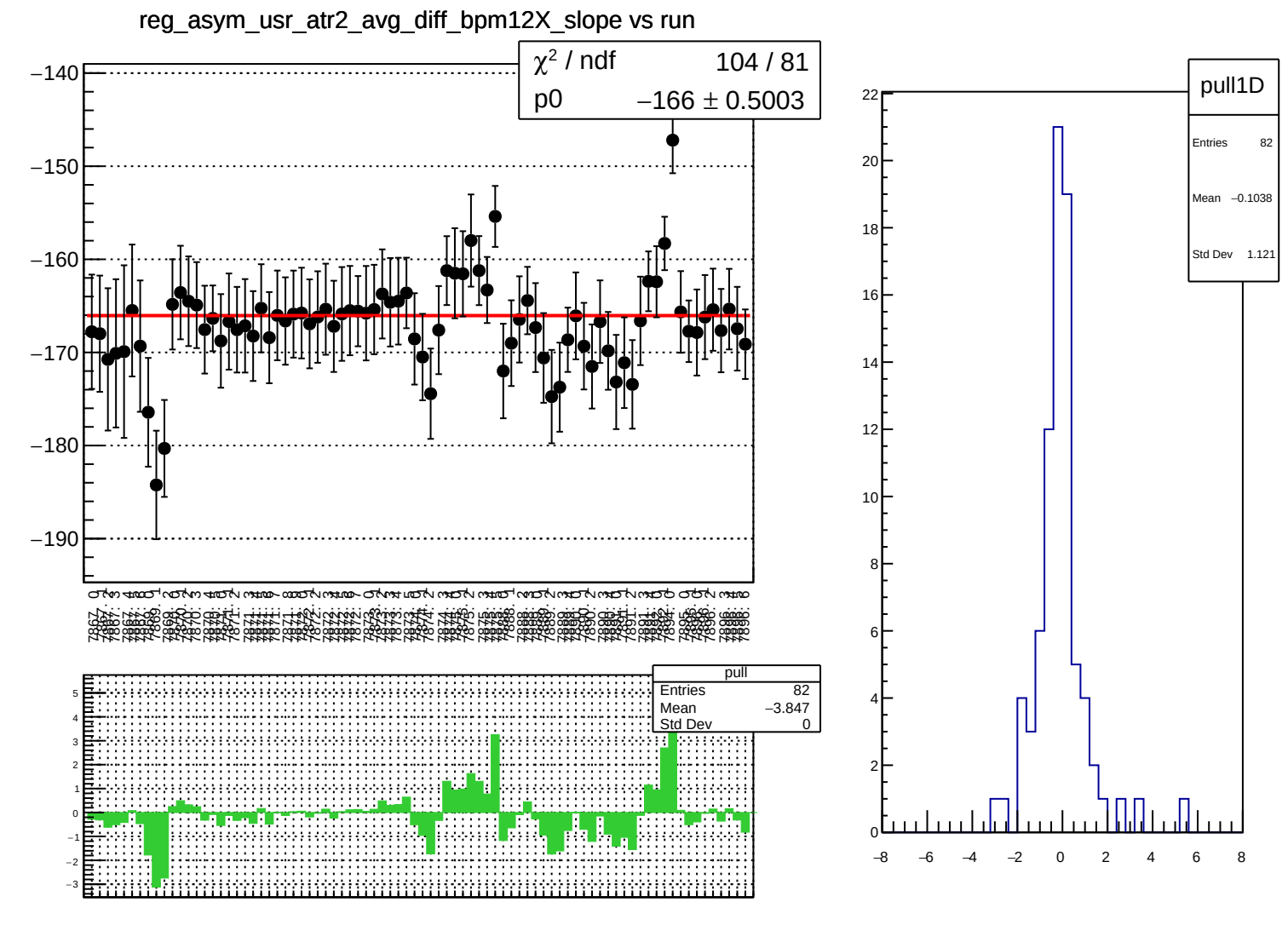

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.647 / 81
p0 49.35 ± 13.52
pull
Entries 82
Mean −87.45
Std Dev 0

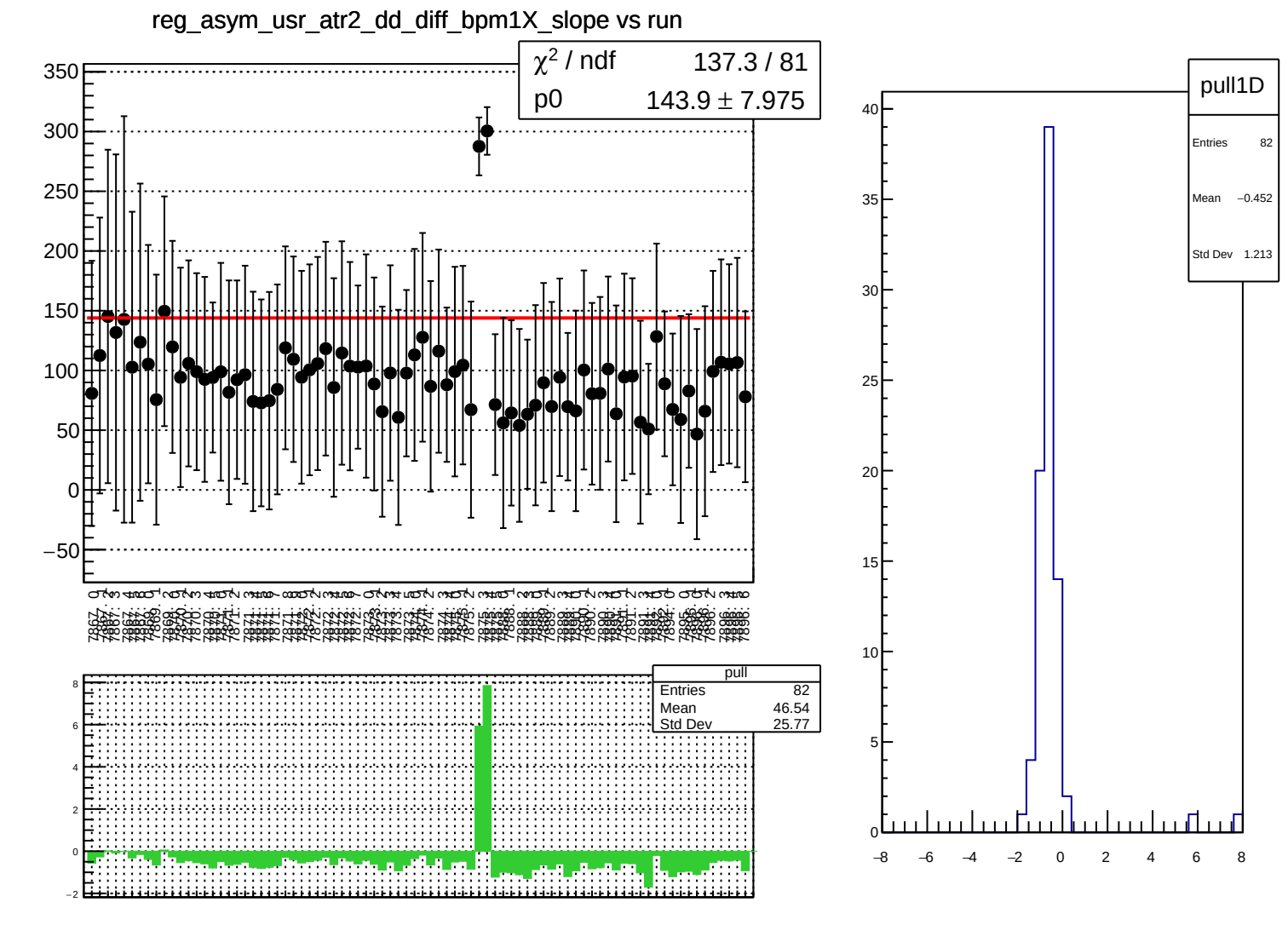

pull1D
Entries 82
Mean 0.002967
Std Dev 0.238

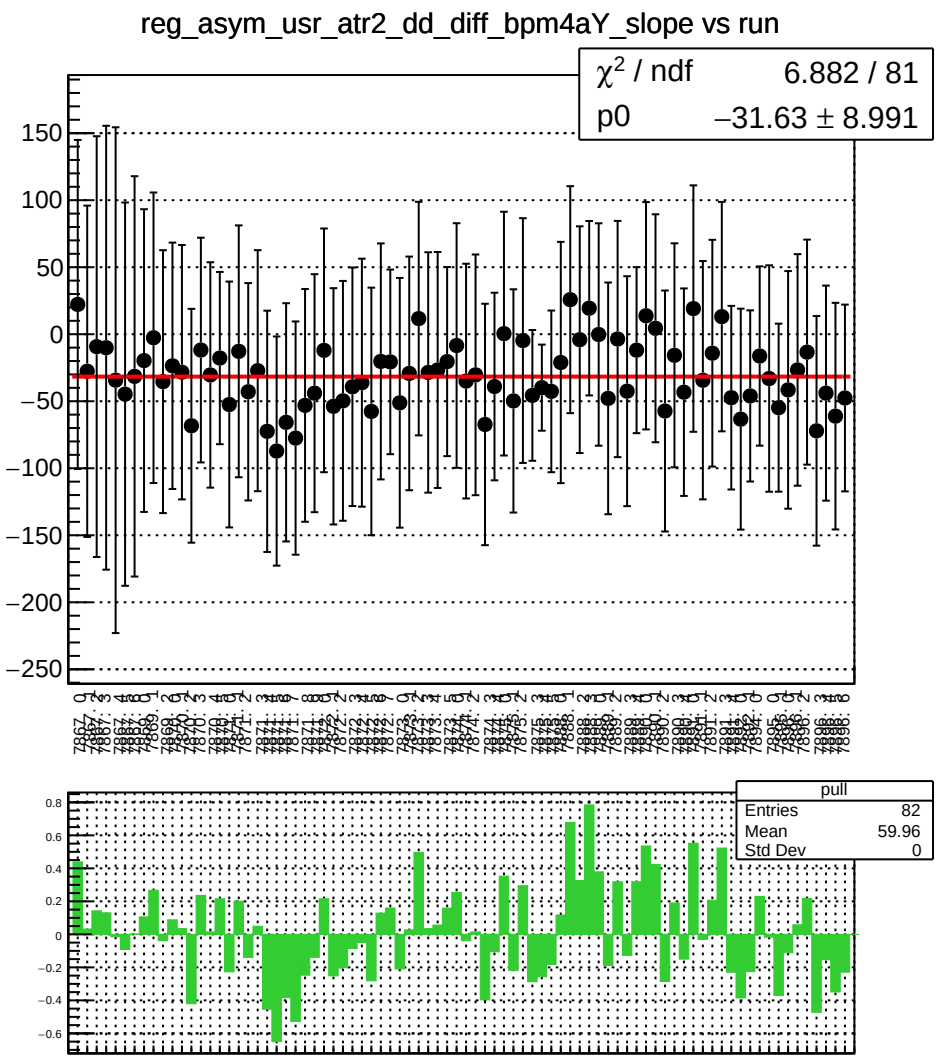

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 164.5 / 81
p0 279.8 ± 9.966
pull
Entries 82
Mean 46.11
Std Dev 25.14
pull1D
Entries 82
Mean −0.7122
Std Dev 0.7961

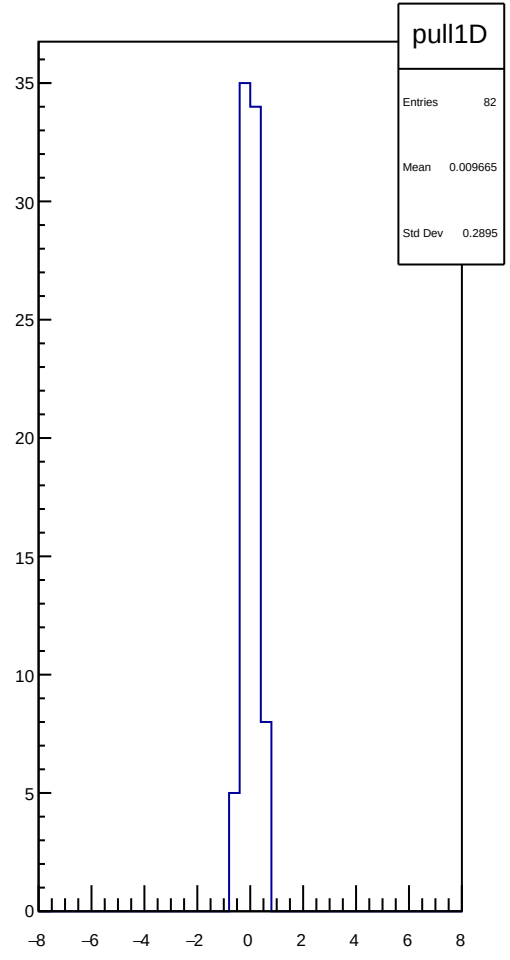

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.305 / 81
p0 −0.857 ± 15.8
pull
Entries 82
Mean −186.2
Std Dev 0

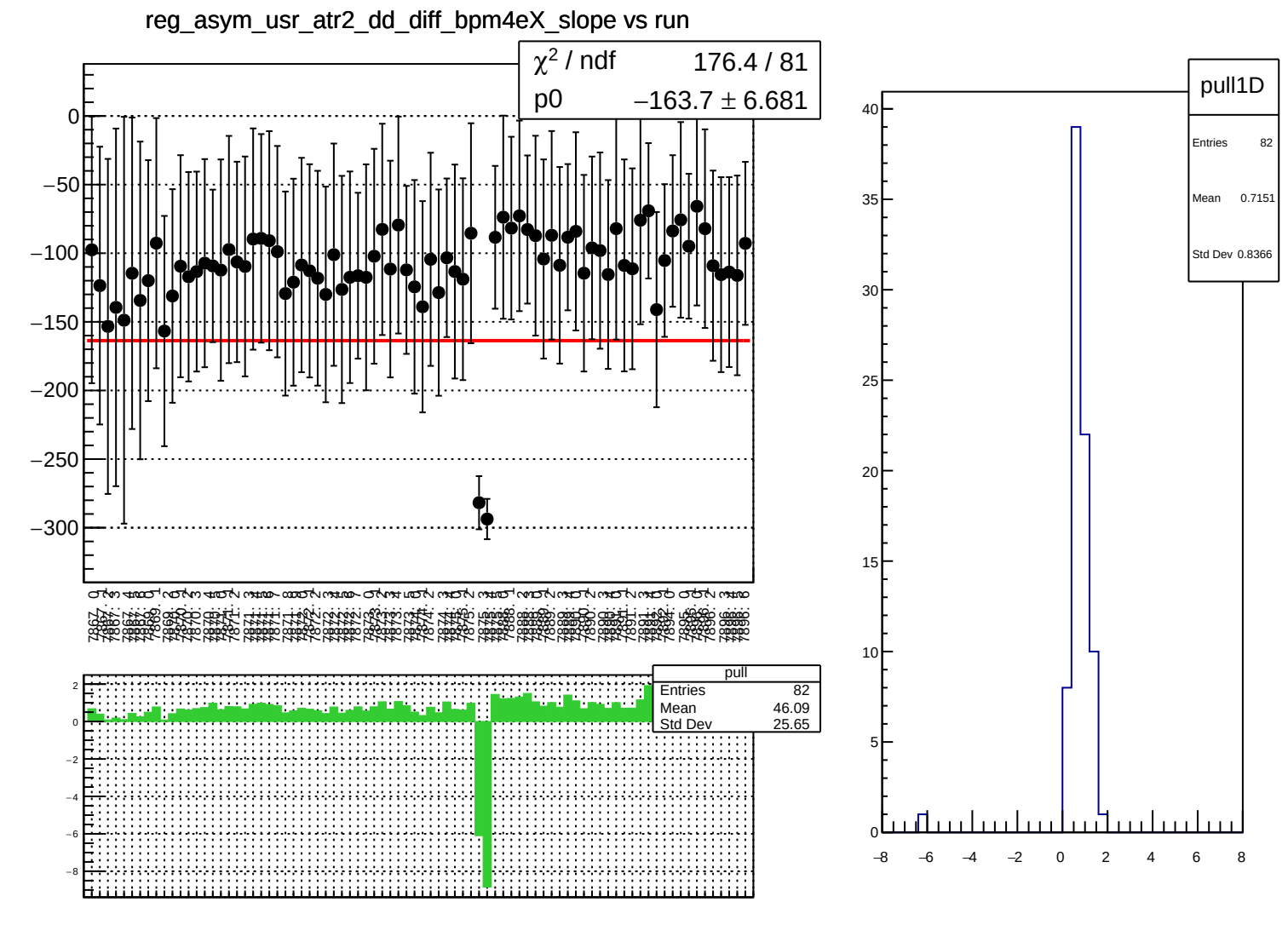

pull1D
Entries 82
Mean −0.002531
Std Dev 0.2291

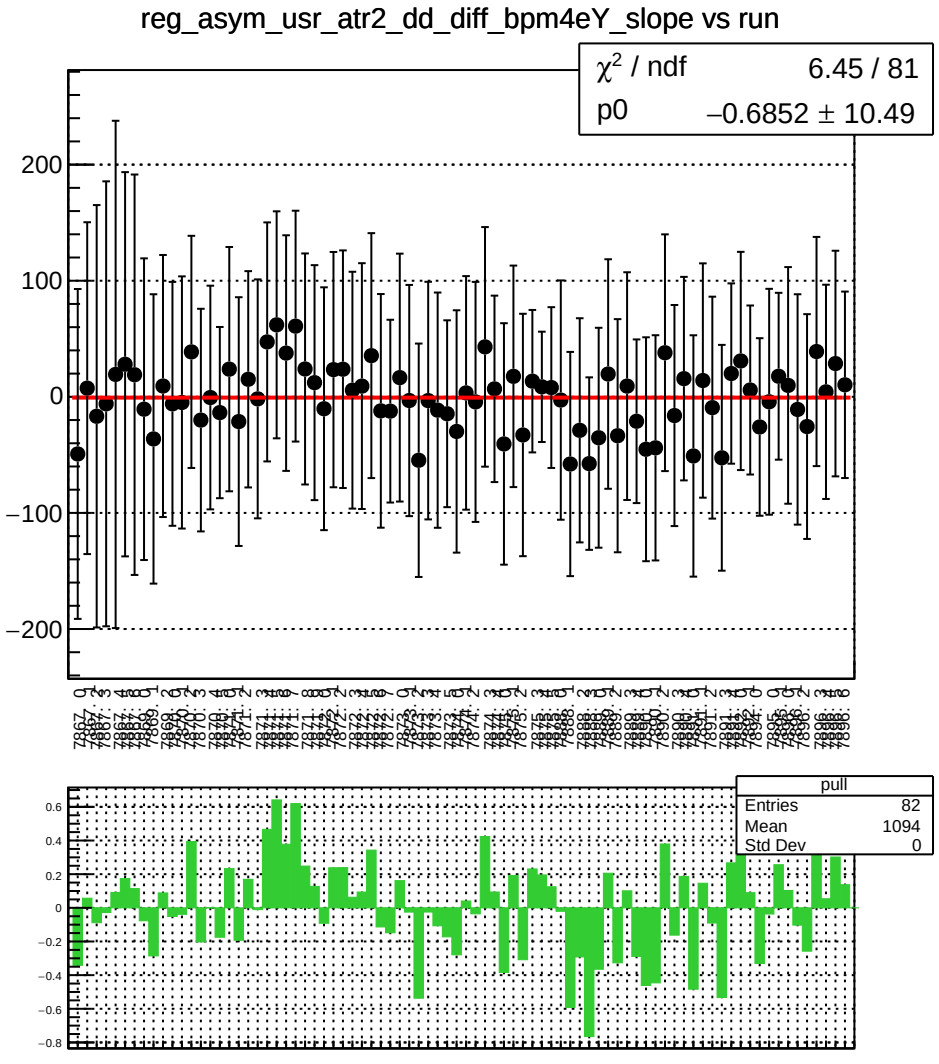

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 104 / 81
p0 −166 ± 0.5003
−140
−150
−160
−170
−180
−190
pull
Entries 82
Mean −3.847
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.1038
Std Dev 1.121
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

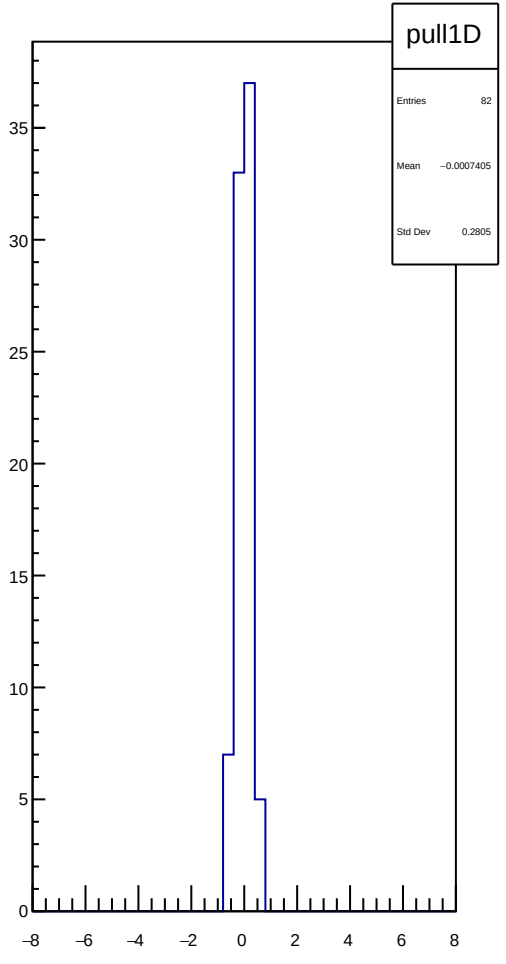

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 137.3 / 81
p0 143.9 ± 7.975
pull
Entries 82
Mean 46.54
Std Dev 25.77
pull1D
Entries 82
Mean −0.452
Std Dev 1.213

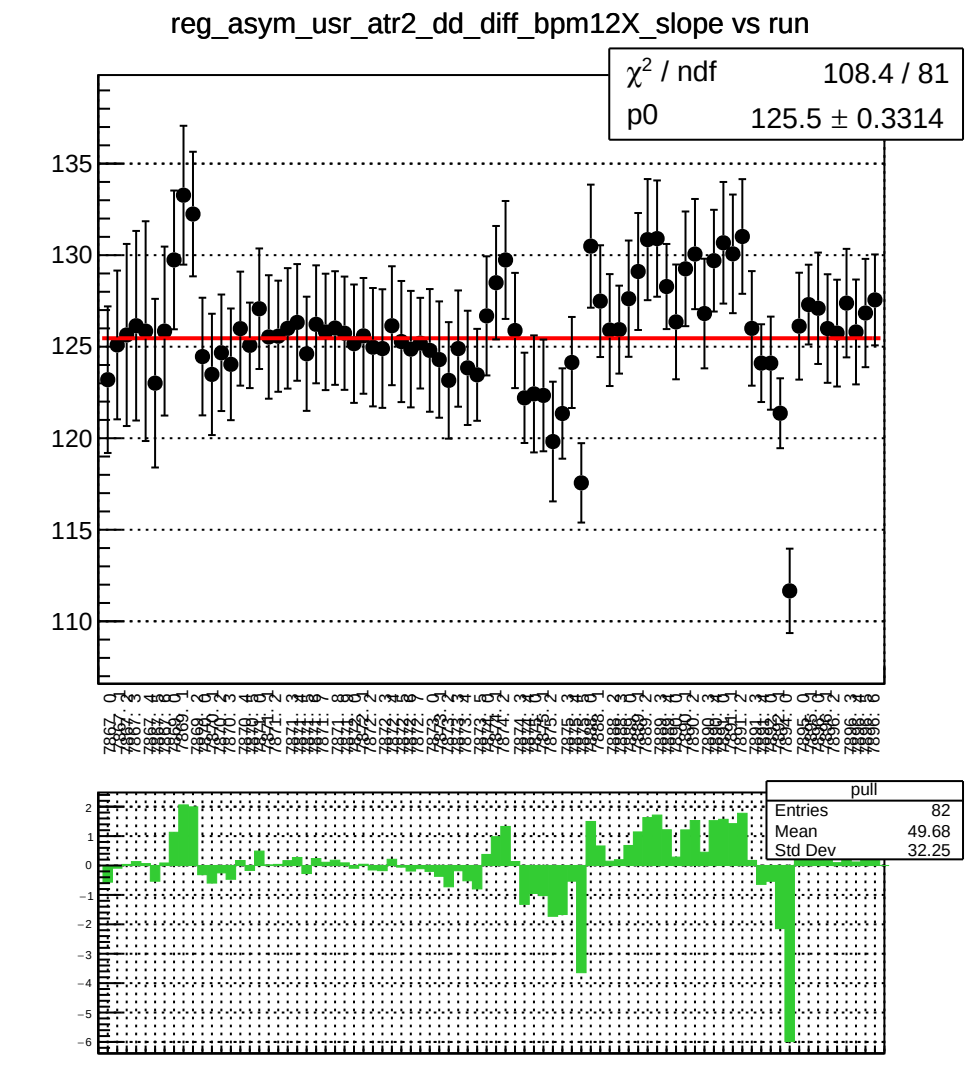

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.882 / 81
p0 −31.63 ± 8.991
pull
Entries 82
Mean 59.96
Std Dev 0

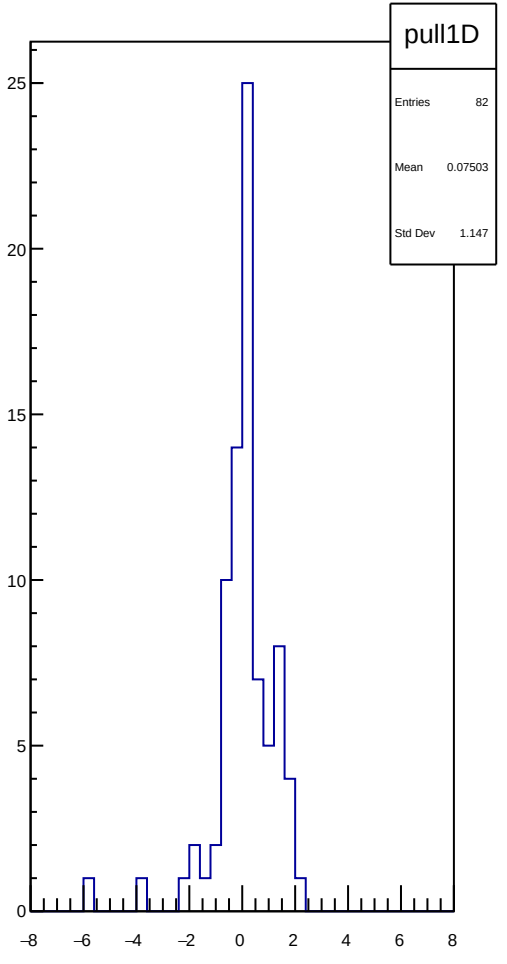

pull1D
Entries 82
Mean 0.009665
Std Dev 0.2895

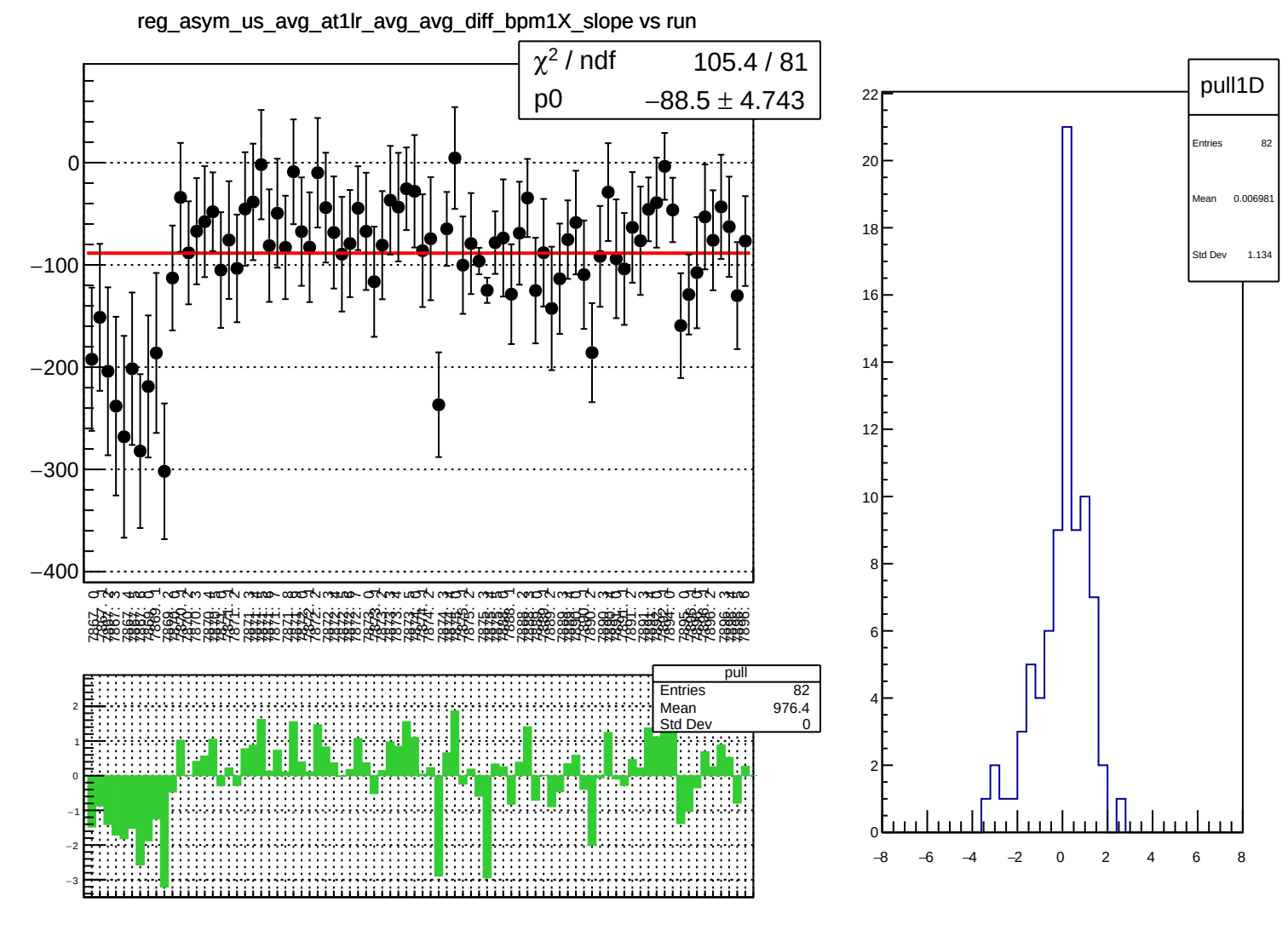

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 176.4 / 81
p0 −163.7 ± 6.681
pull
Entries 82
Mean 46.09
Std Dev 25.65
pull1D
Entries 82
Mean 0.7151
Std Dev 0.8366

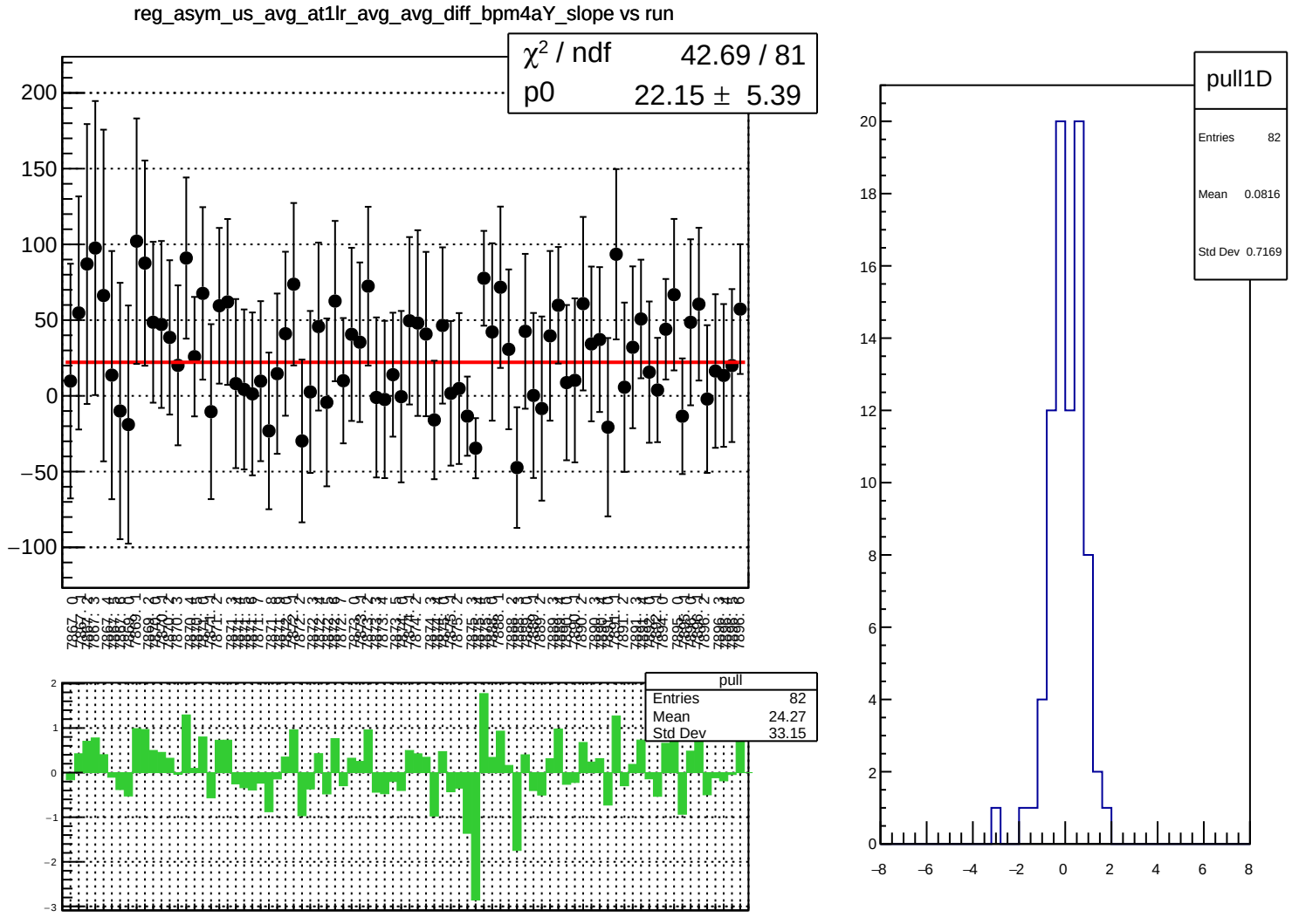

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.45 / 81
p0 −0.6852 ± 10.49
200
100
0
−100
−200
pull
Entries 82
Mean 1094
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

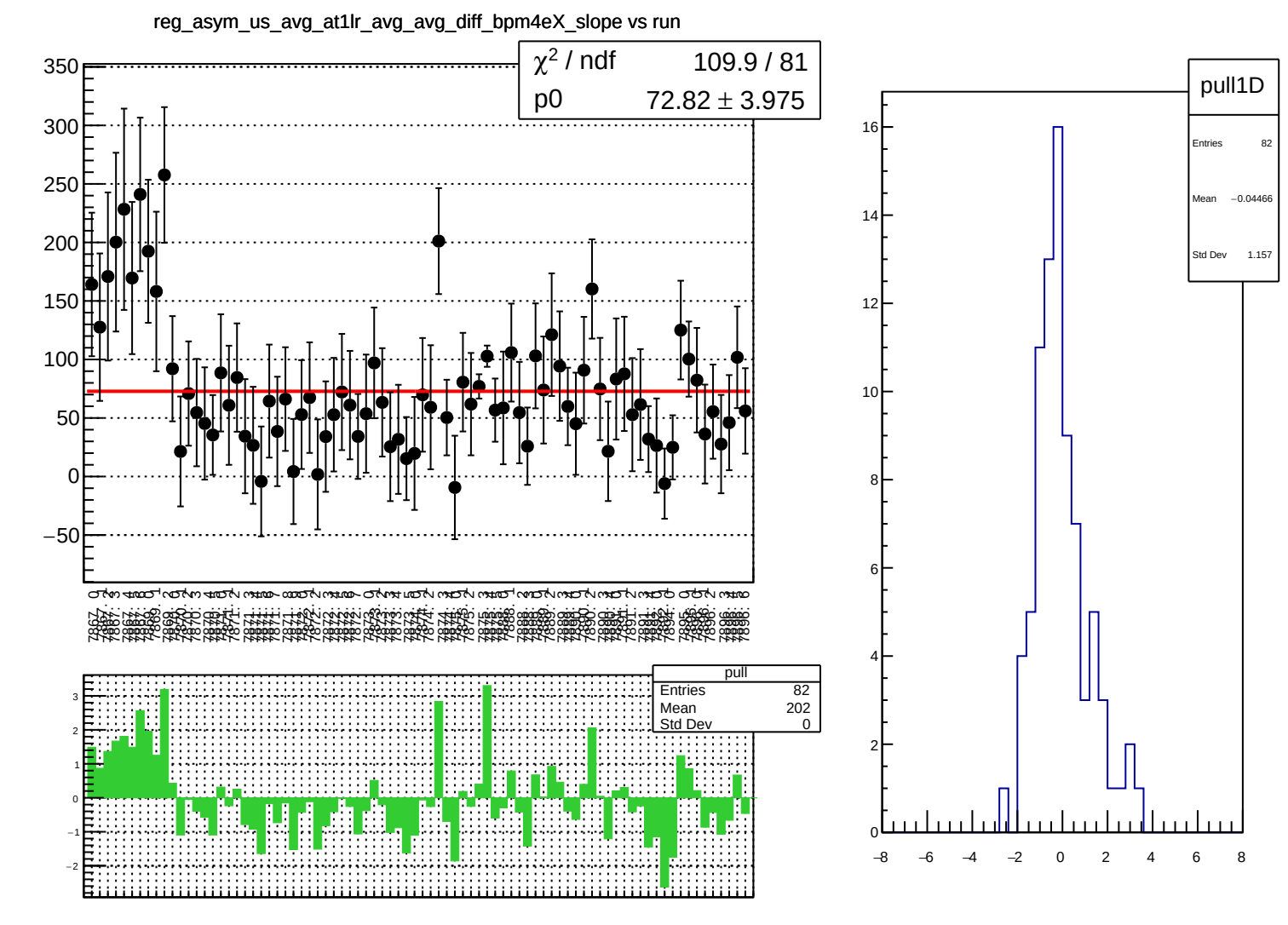

pull1D
Entries 82
Mean −0.0007405
Std Dev 0.2805
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

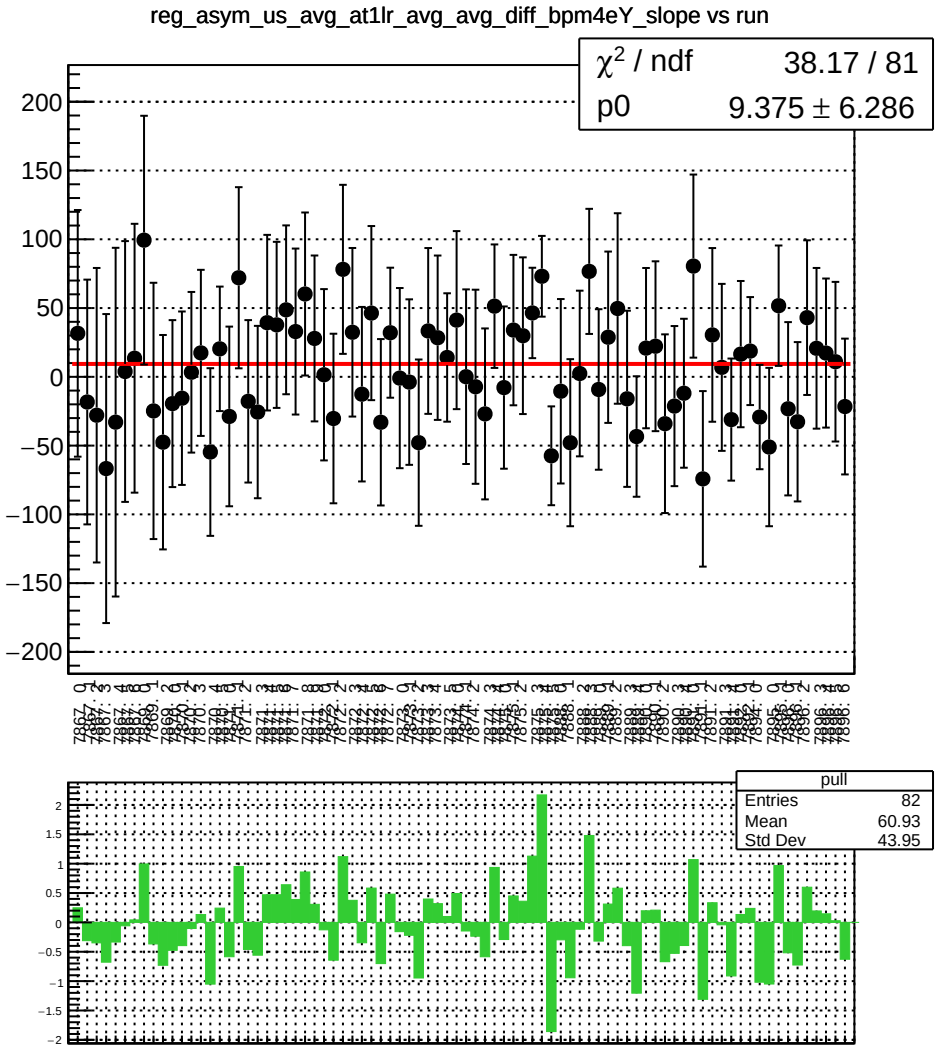

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 108.4 / 81
p0 125.5 ± 0.3314
pull
Entries 82
Mean 49.68
Std Dev 32.25

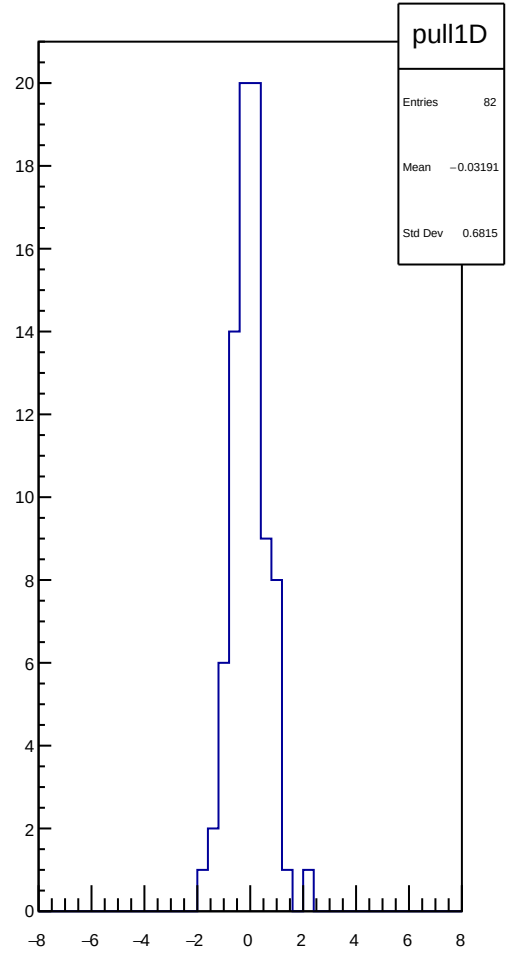

pull1D
Entries 82
Mean 0.07503
Std Dev 1.147

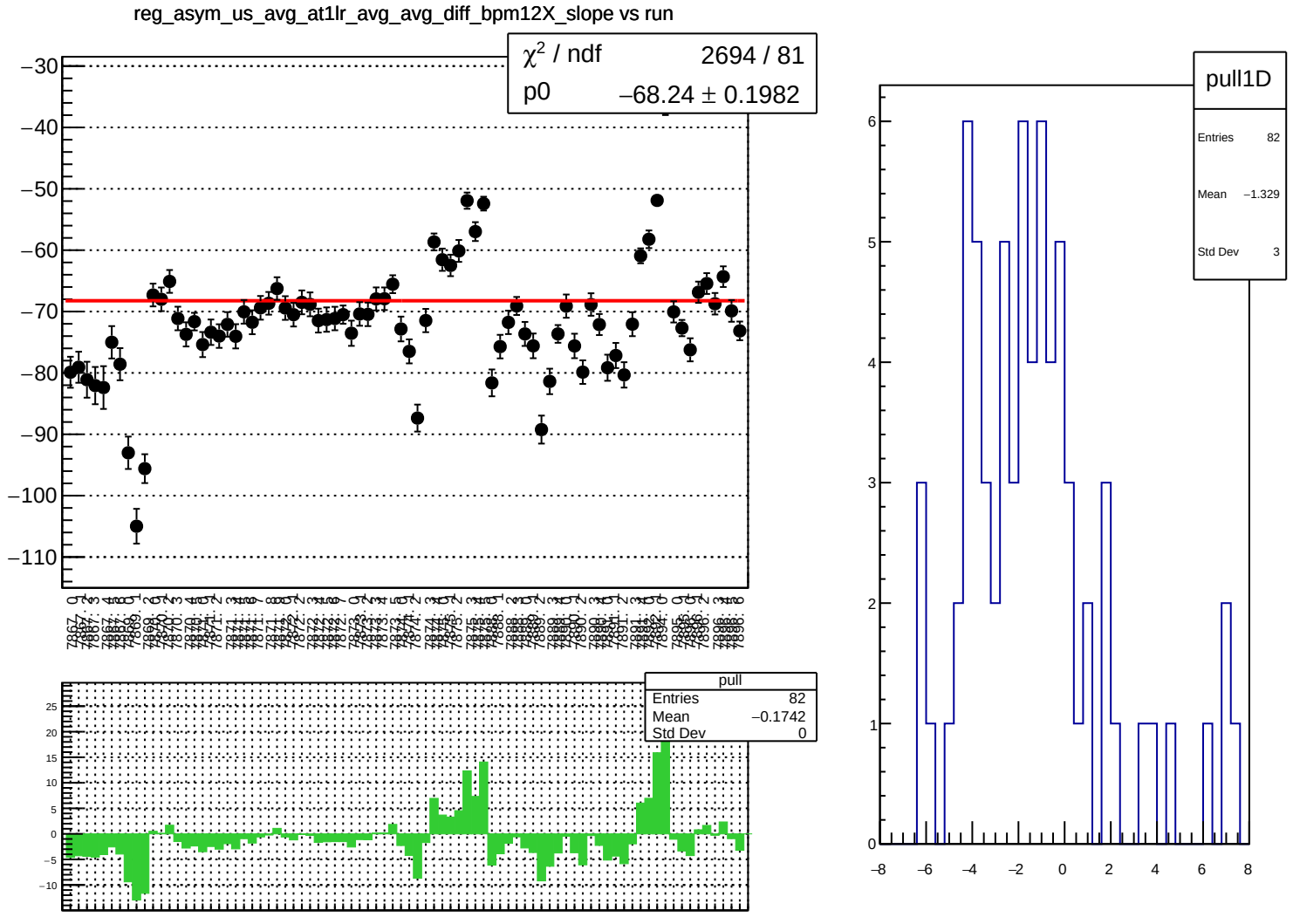

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 81
p0 −88.5 ± 4.743
0
−100
−200
−300
−400
pull
Entries 82
Mean 976.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.006981
Std Dev 1.134
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

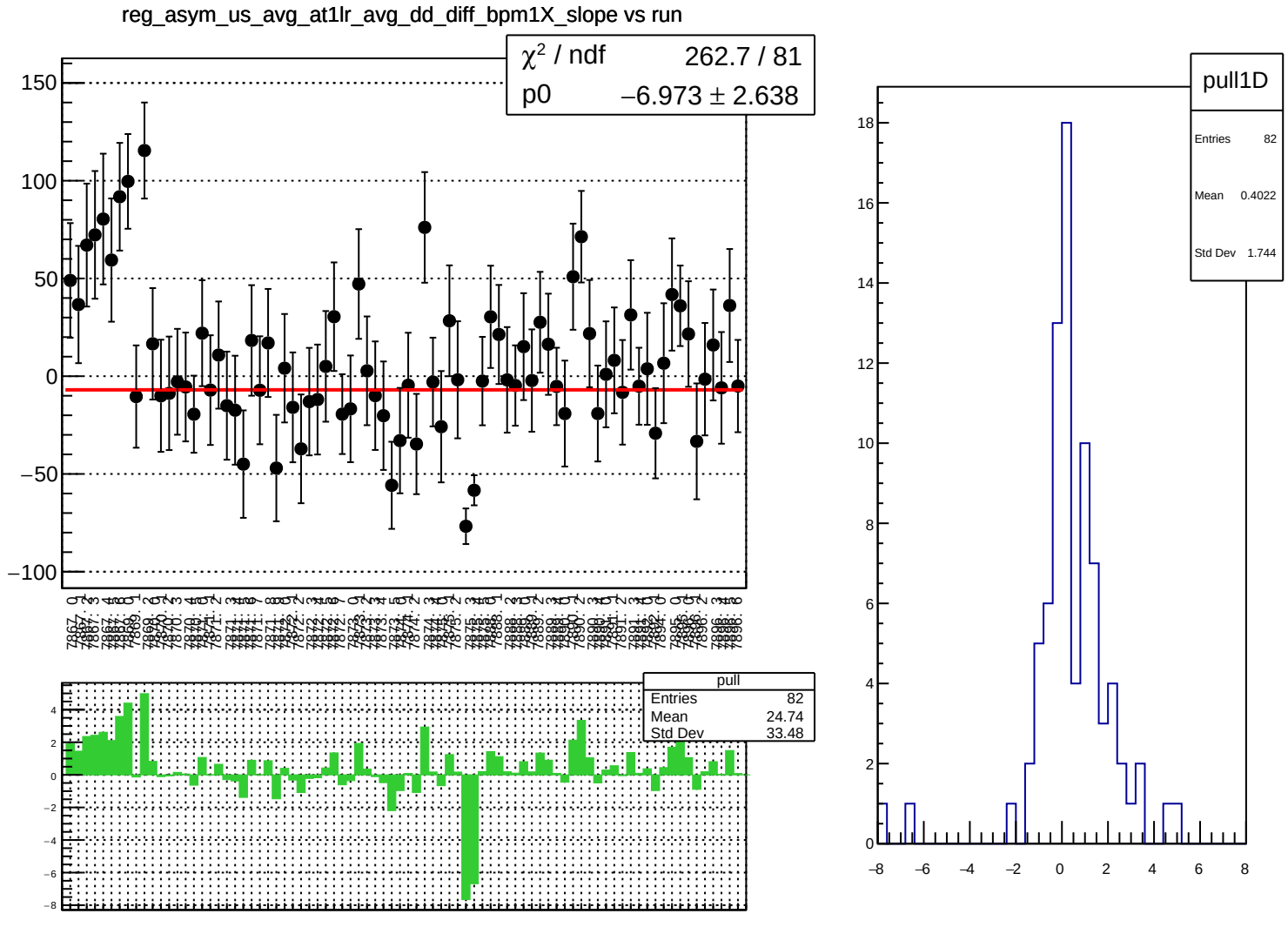

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.69 / 81
p0 22.15 ± 5.39
pull
Entries 82
Mean 24.27
Std Dev 33.15
pull1D
Entries 82
Mean 0.0816
Std Dev 0.7169

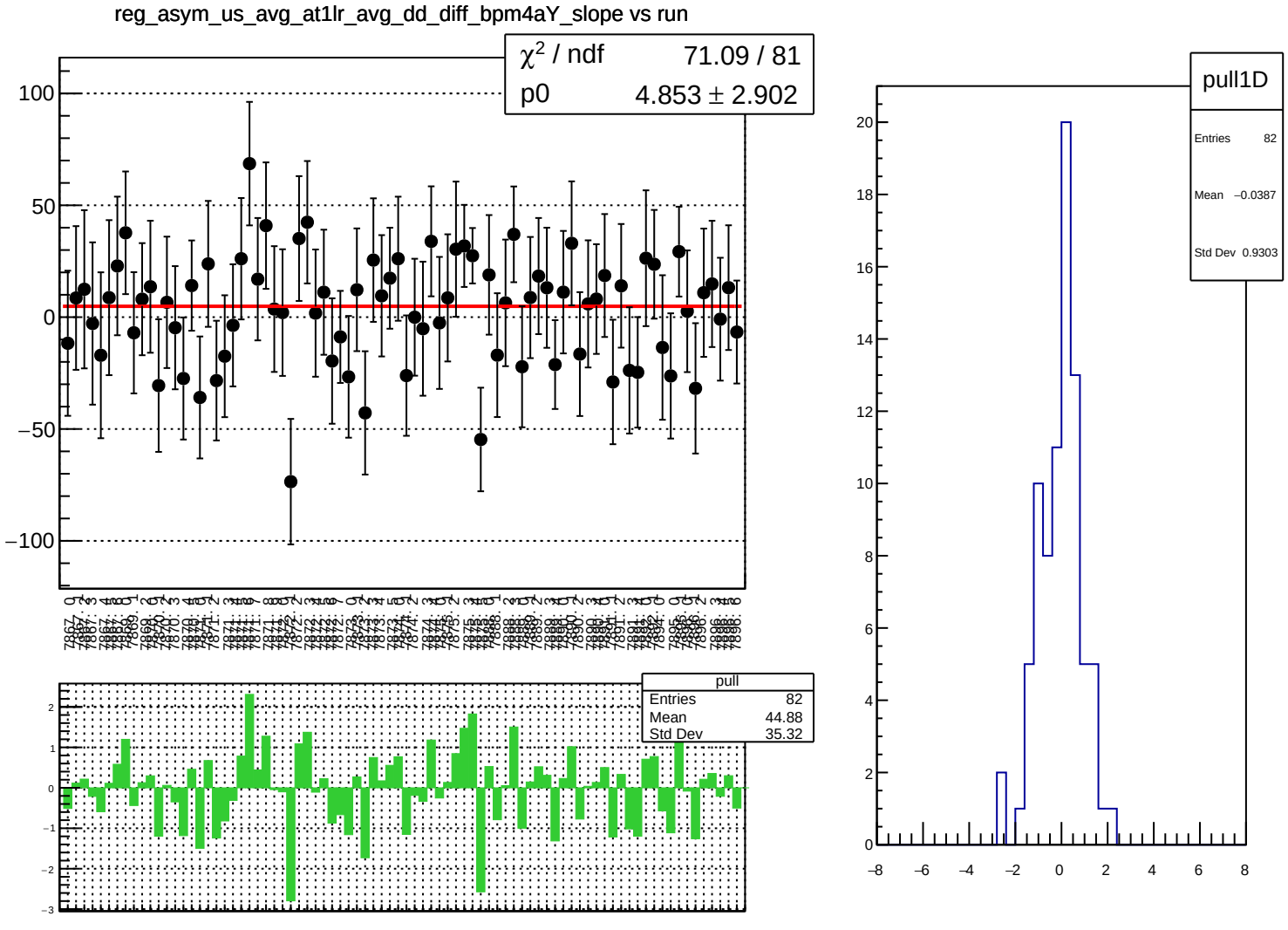

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 109.9 / 81
p0 72.82 ± 3.975
pull
Entries 82
Mean 202
Std Dev 0
pull1D
Entries 82
Mean −0.04466
Std Dev 1.157

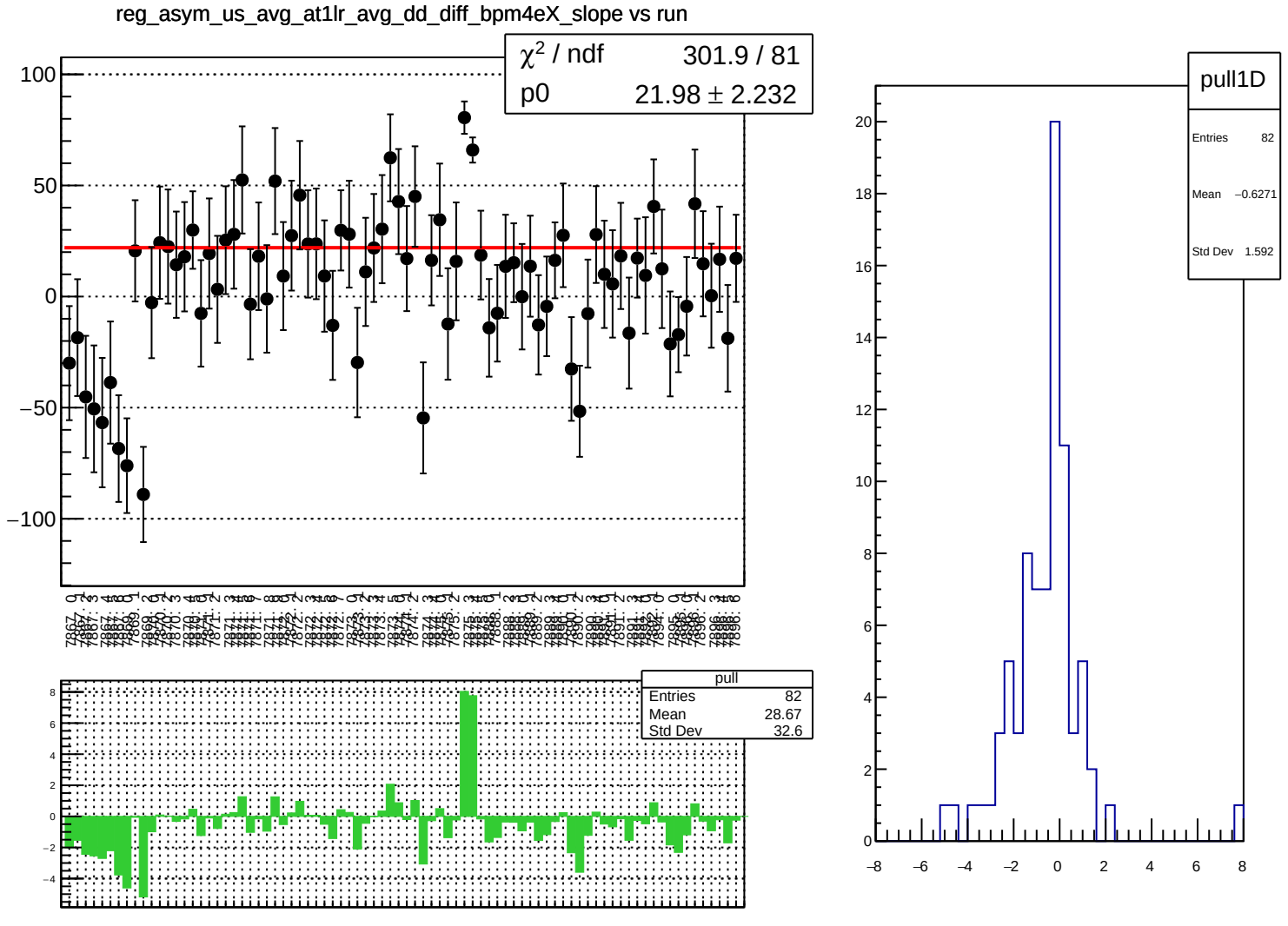

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.17 / 81
p0 9.375 ± 6.286
pull
Entries 82
Mean 60.93
Std Dev 43.95

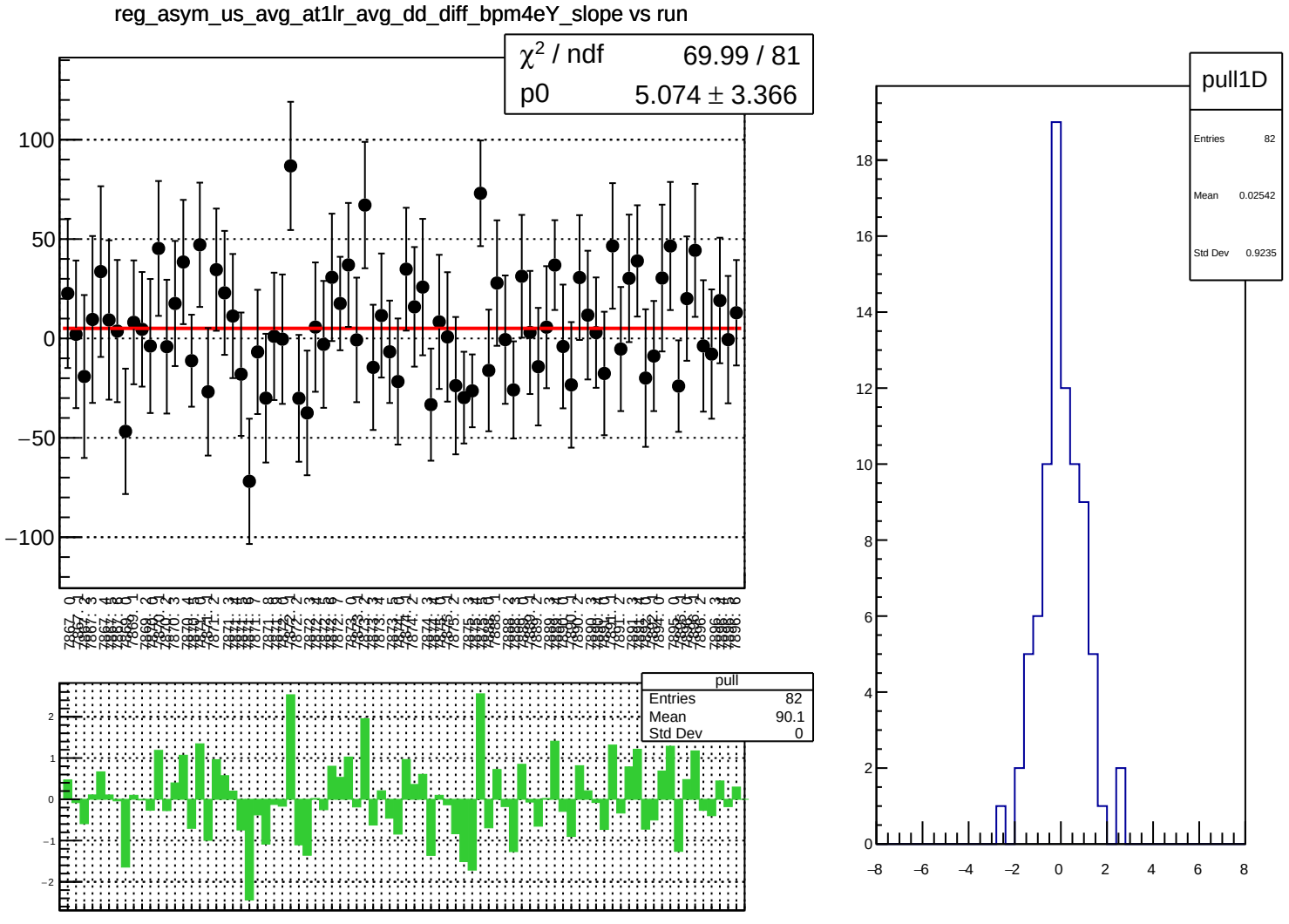

pull1D
Entries 82
Mean −0.03191
Std Dev 0.6815

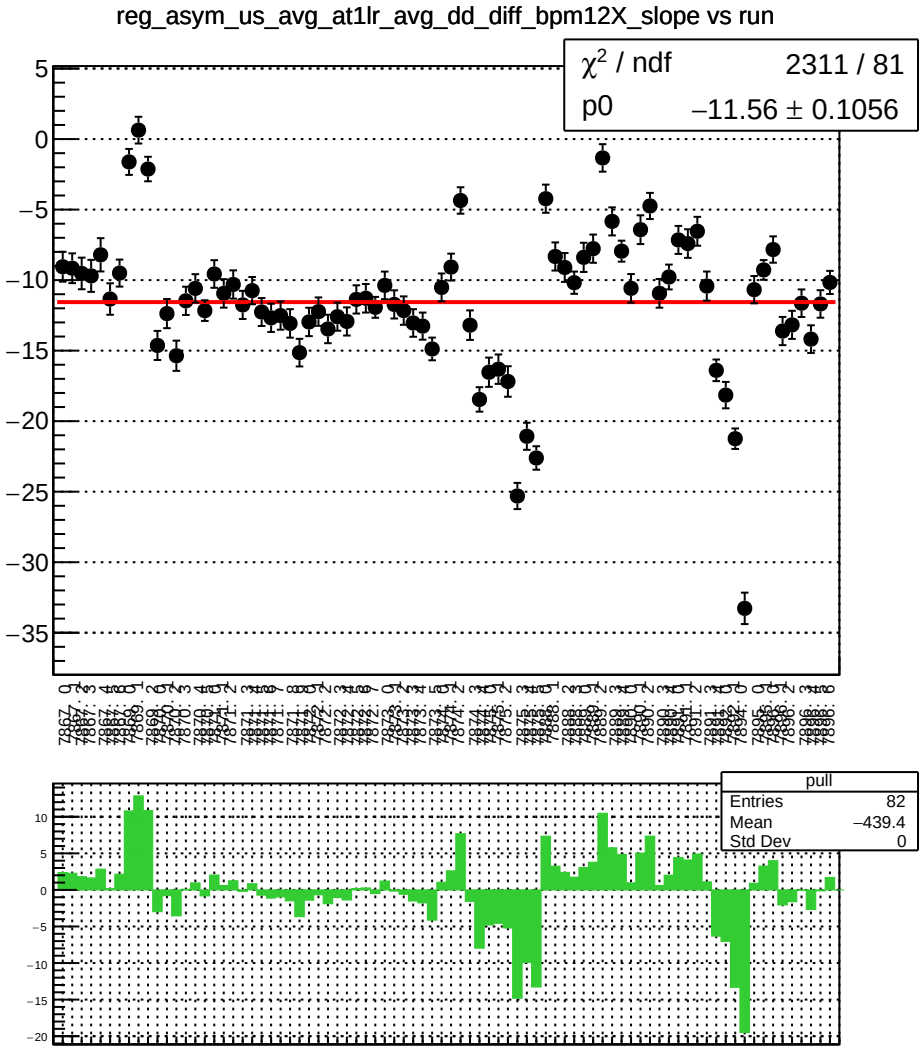

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 2694 / 81
p0 −68.24 ± 0.1982
pull
Entries 82
Mean −0.1742
Std Dev 0
pull1D
Entries 82
Mean −1.329
Std Dev 3

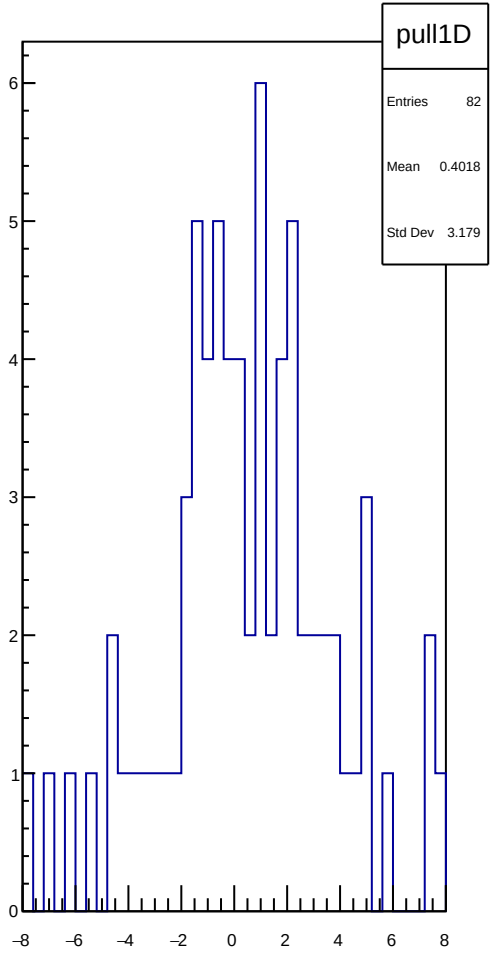

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 262.7 / 81
p0 −6.973 ± 2.638
150
100
50
0
−50
−100
pull
Entries 82
Mean 24.74
Std Dev 33.48
4
2
0
−2
−4
−6
−8
pull1D
Entries 82
Mean 0.4022
Std Dev 1.744
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

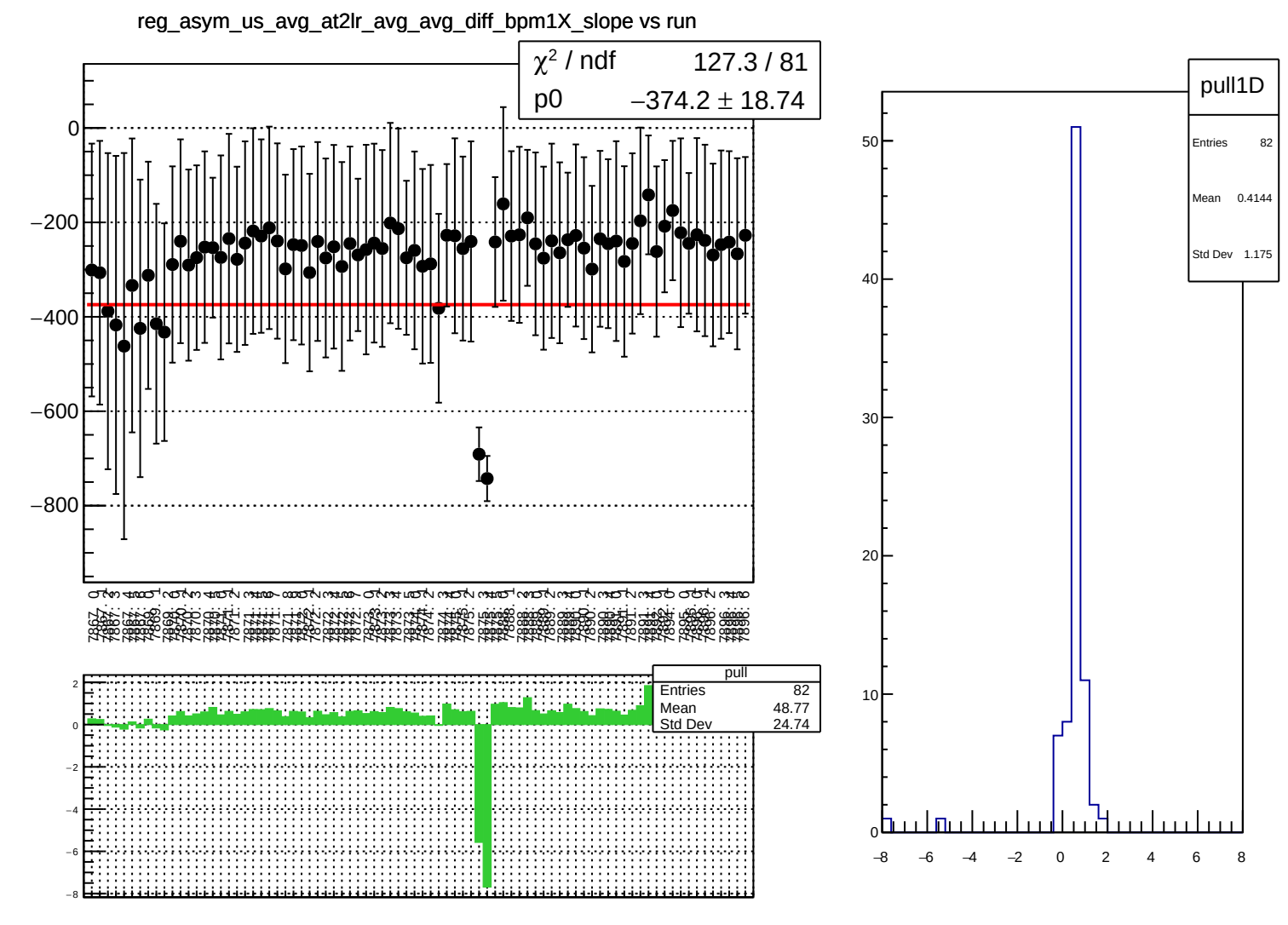

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.09 / 81
p0 4.853 ± 2.902
pull
Entries 82
Mean 44.88
Std Dev 35.32
pull1D
Entries 82
Mean −0.0387
Std Dev 0.9303

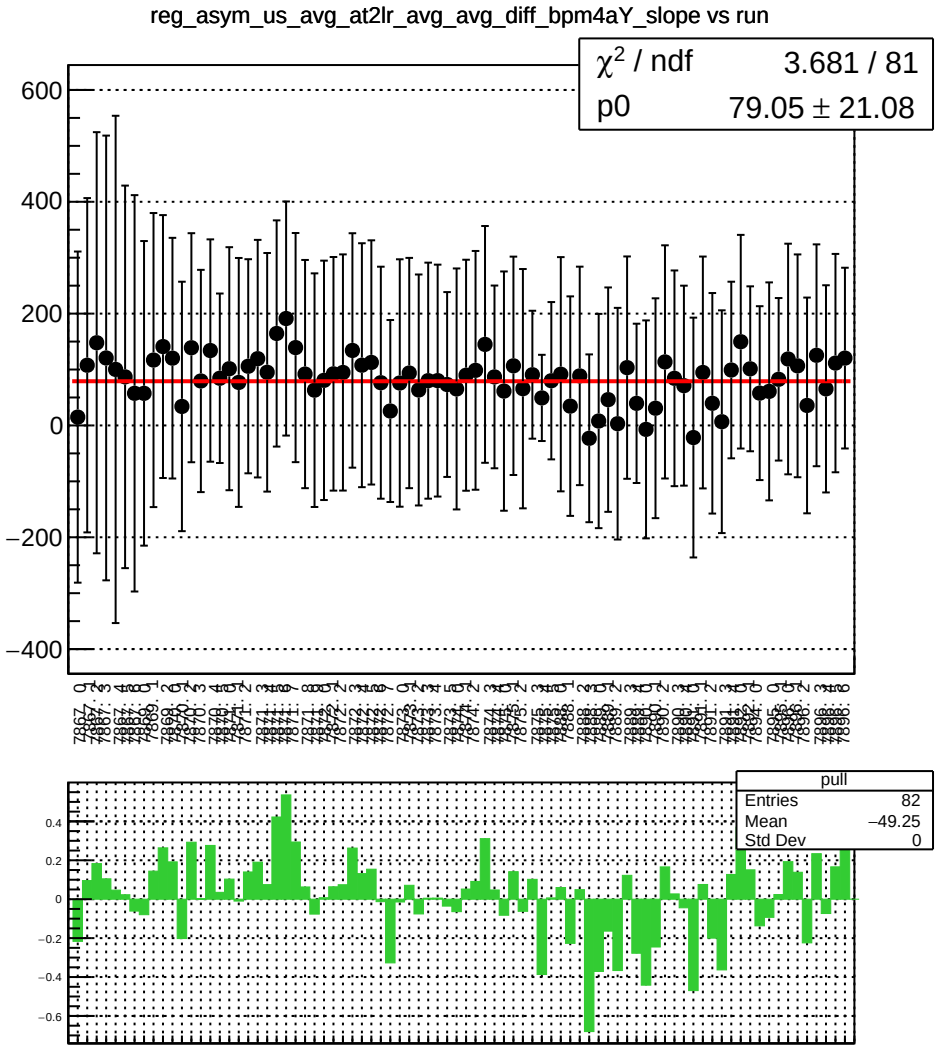

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 301.9 / 81
p0 21.98 ± 2.232
pull
Entries 82
Mean 28.67
Std Dev 32.6
pull1D
Entries 82
Mean −0.6271
Std Dev 1.592

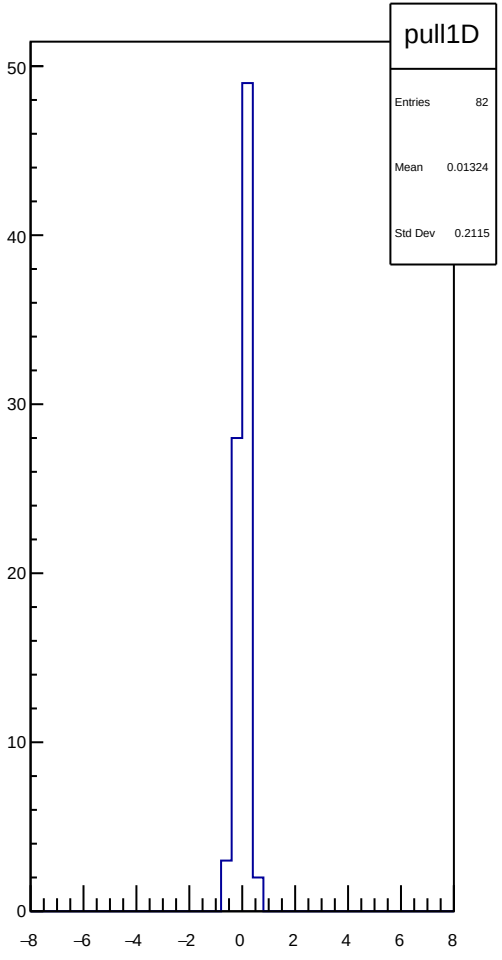

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.99 / 81
p0 5.074 ± 3.366
100
50
0
−50
−100
pull
Entries 82
Mean 90.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.02542
Std Dev 0.9235
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

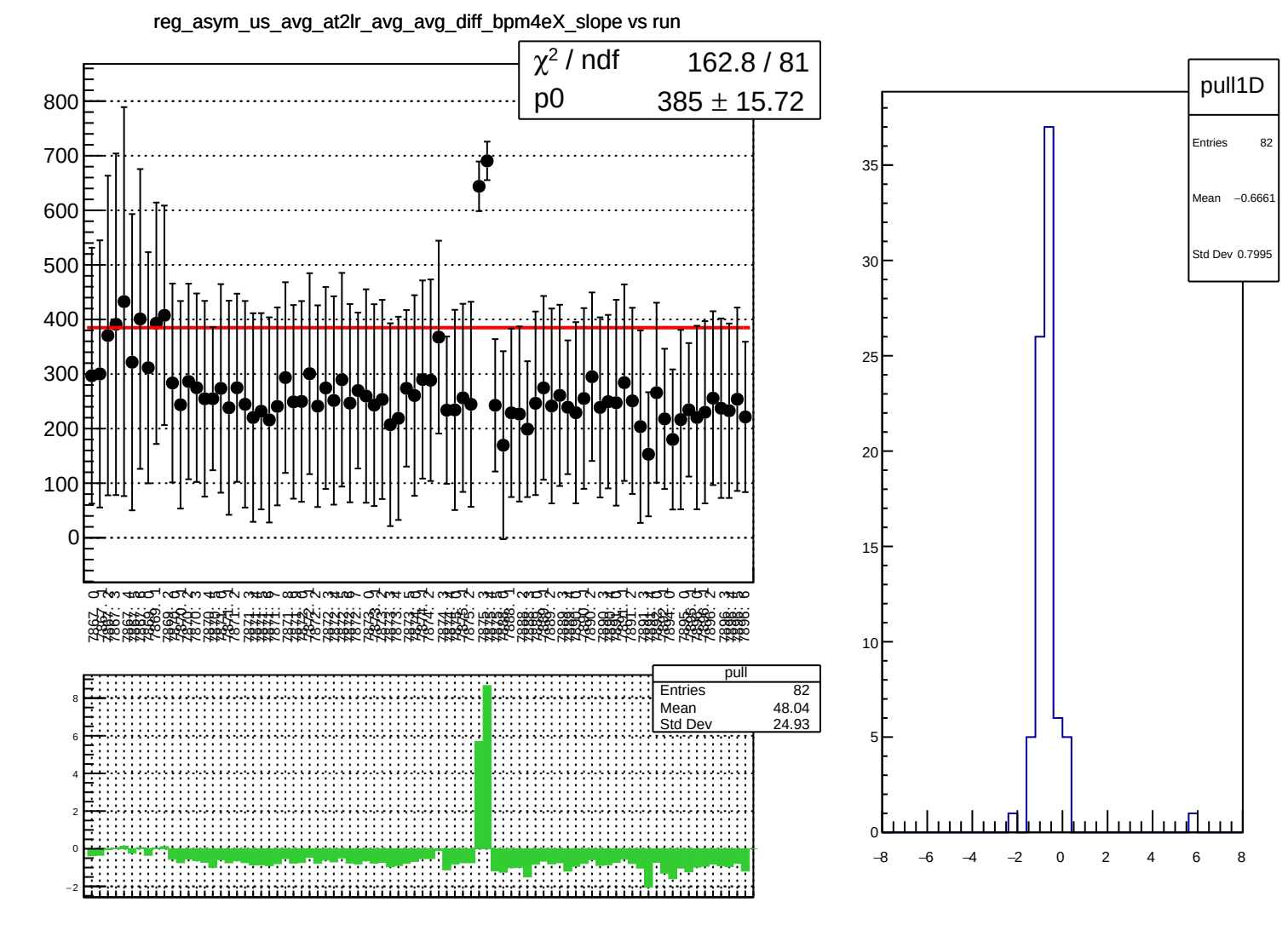

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 2311 / 81
p0 −11.56 ± 0.1056
pull
Entries 82
Mean −439.4
Std Dev 0

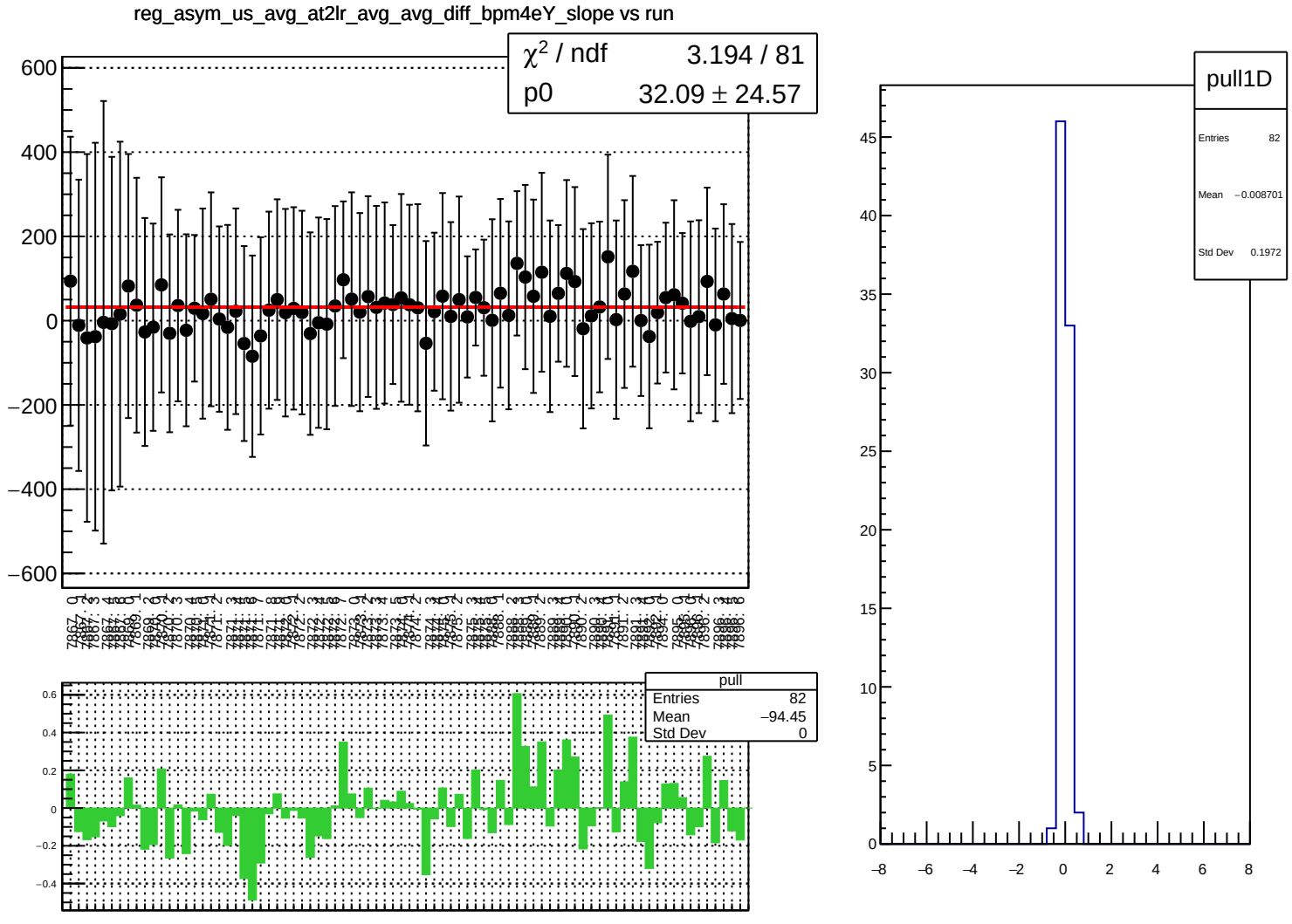

pull1D
Entries 82
Mean 0.4018
Std Dev 3.179

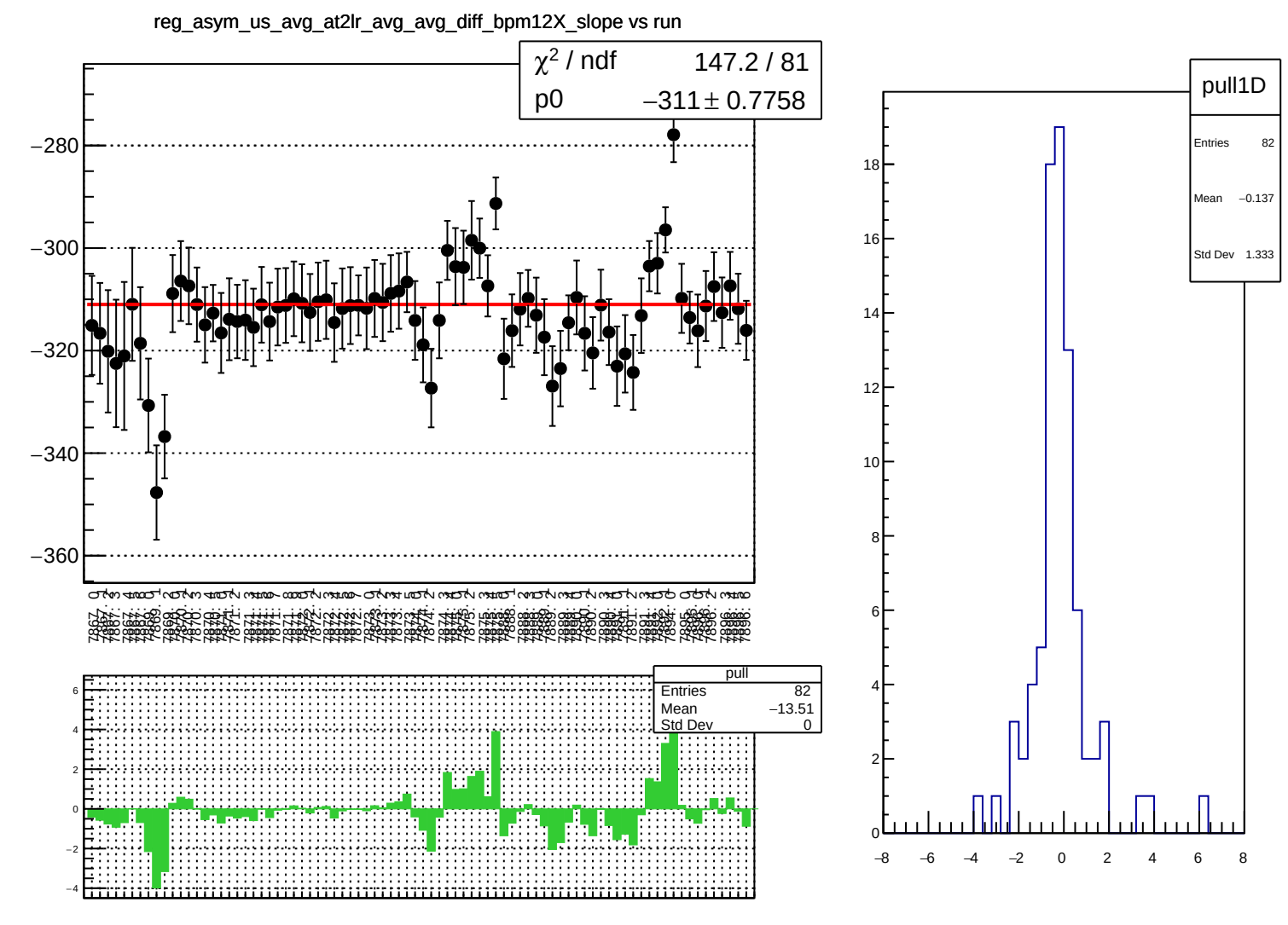

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 127.3 / 81
p0 −374.2 ± 18.74
pull
Entries 82
Mean 48.77
Std Dev 24.74
pull1D
Entries 82
Mean 0.4144
Std Dev 1.175

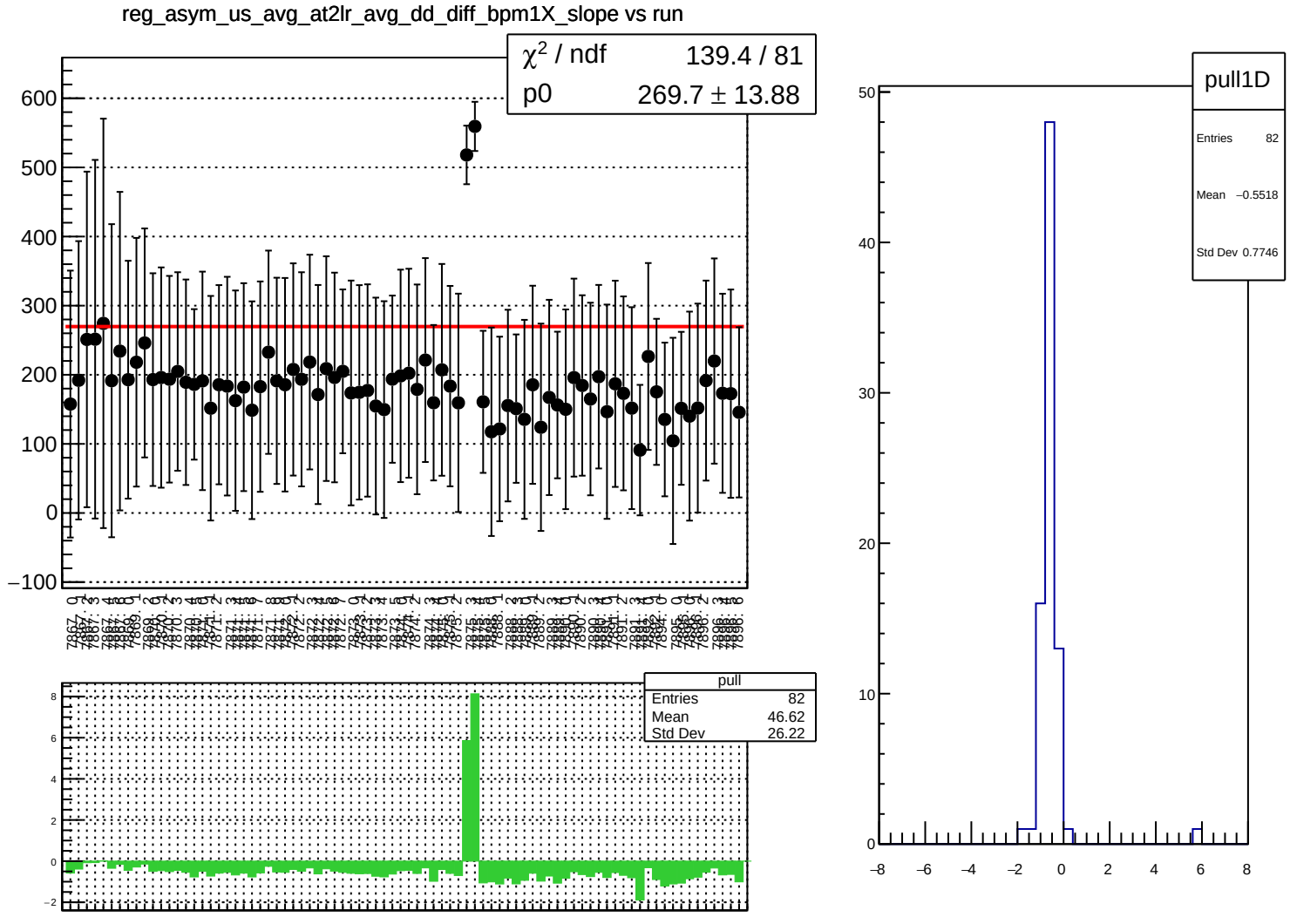

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.681 / 81
p0 79.05 ± 21.08
pull
Entries 82
Mean −49.25
Std Dev 0

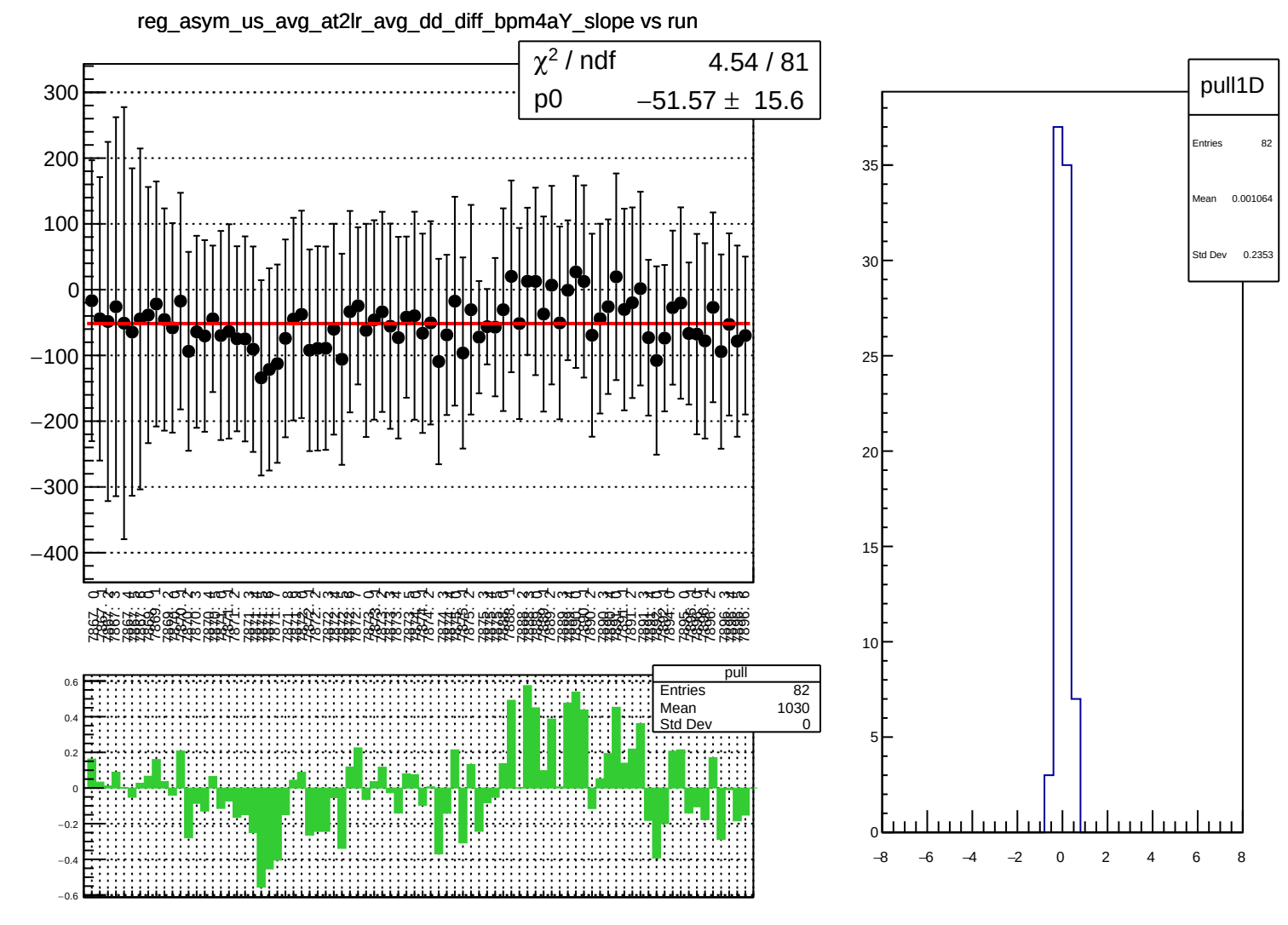

pull1D
Entries 82
Mean 0.01324
Std Dev 0.2115

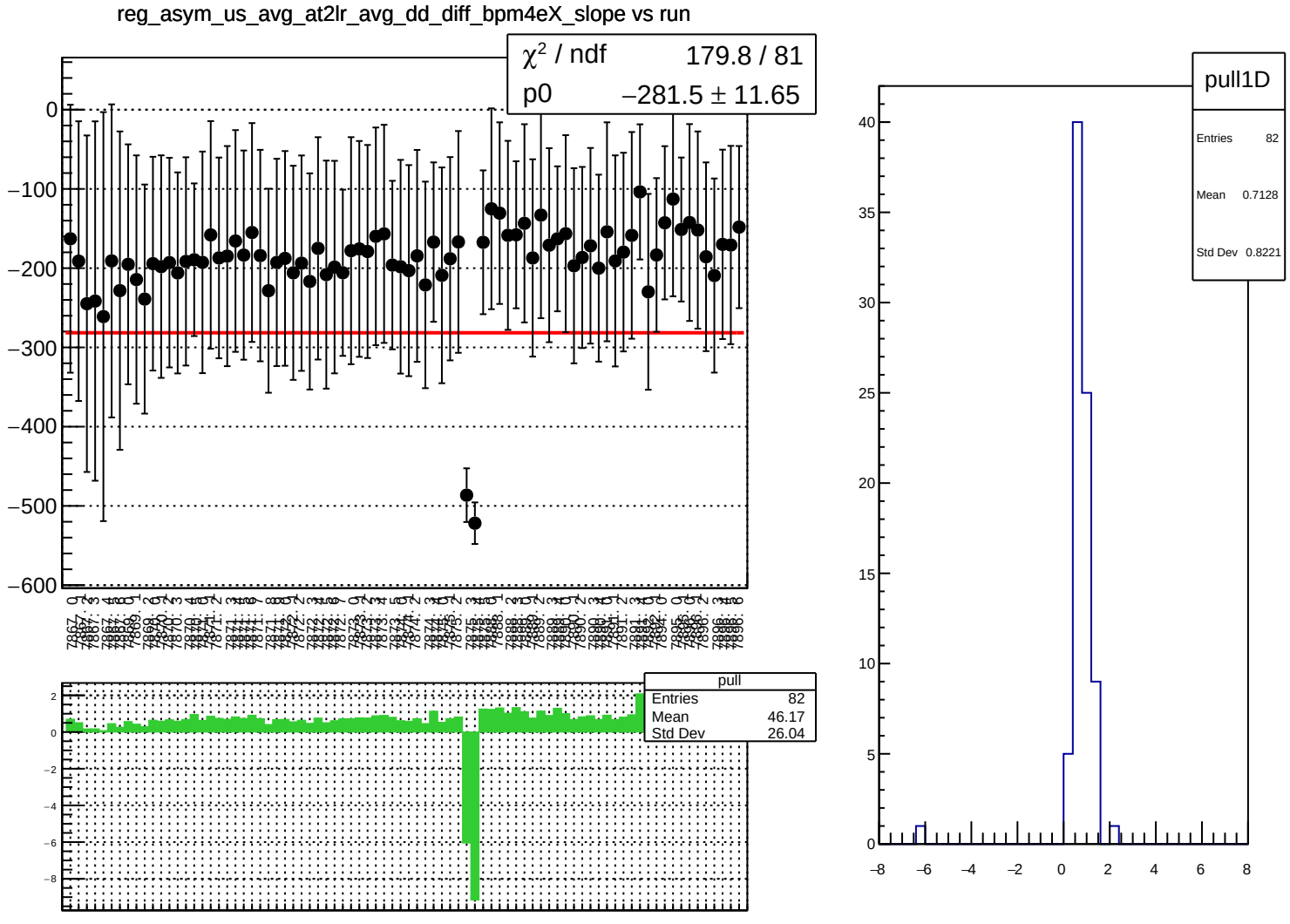

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 162.8 / 81
p0 385 ± 15.72
pull
Entries 82
Mean 48.04
Std Dev 24.93
pull1D
Entries 82
Mean −0.6661
Std Dev 0.7995

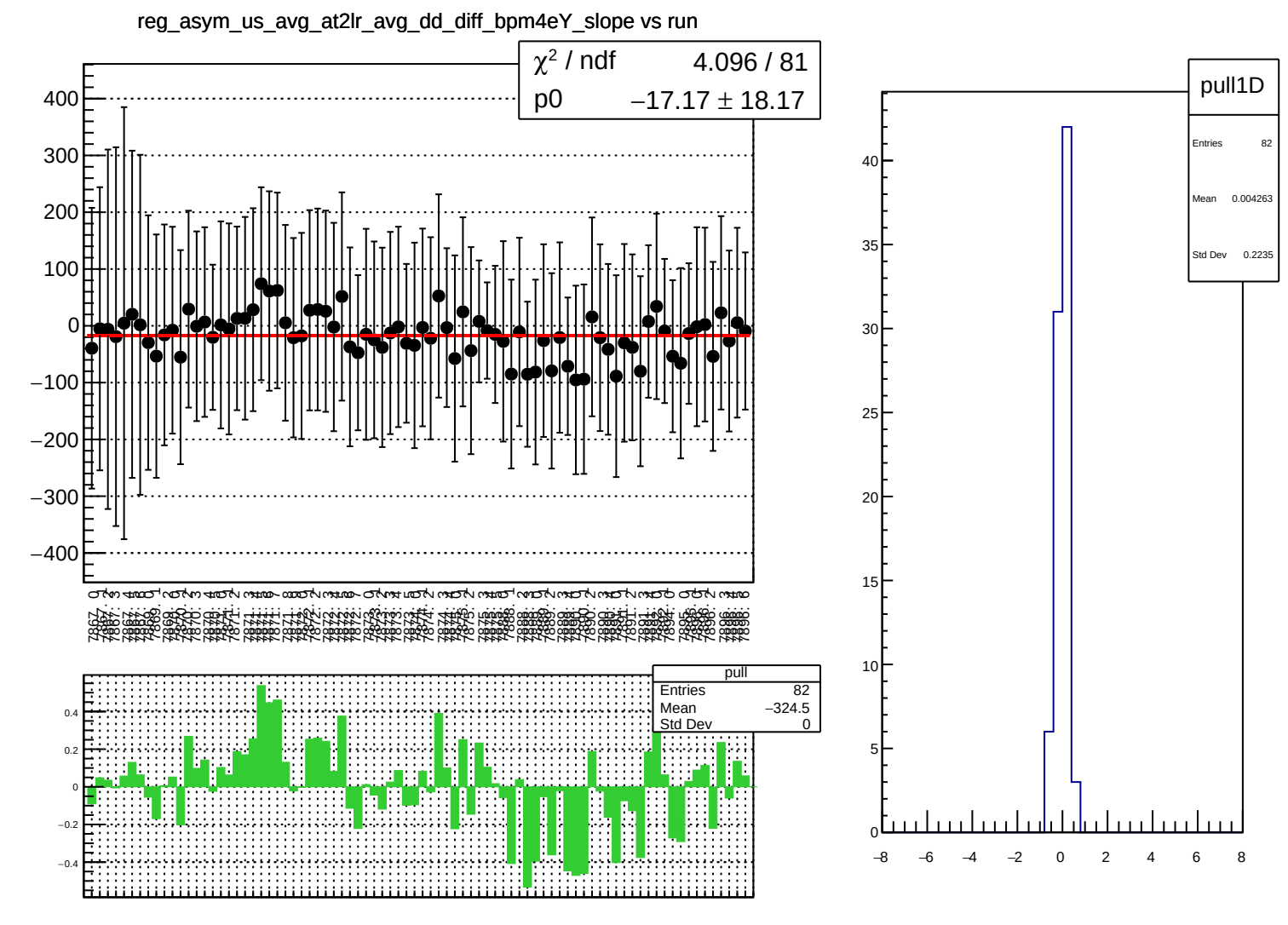

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.194 / 81
p0 32.09 ± 24.57
pull
Entries 82
Mean −94.45
Std Dev 0
pull1D
Entries 82
Mean −0.008701
Std Dev 0.1972

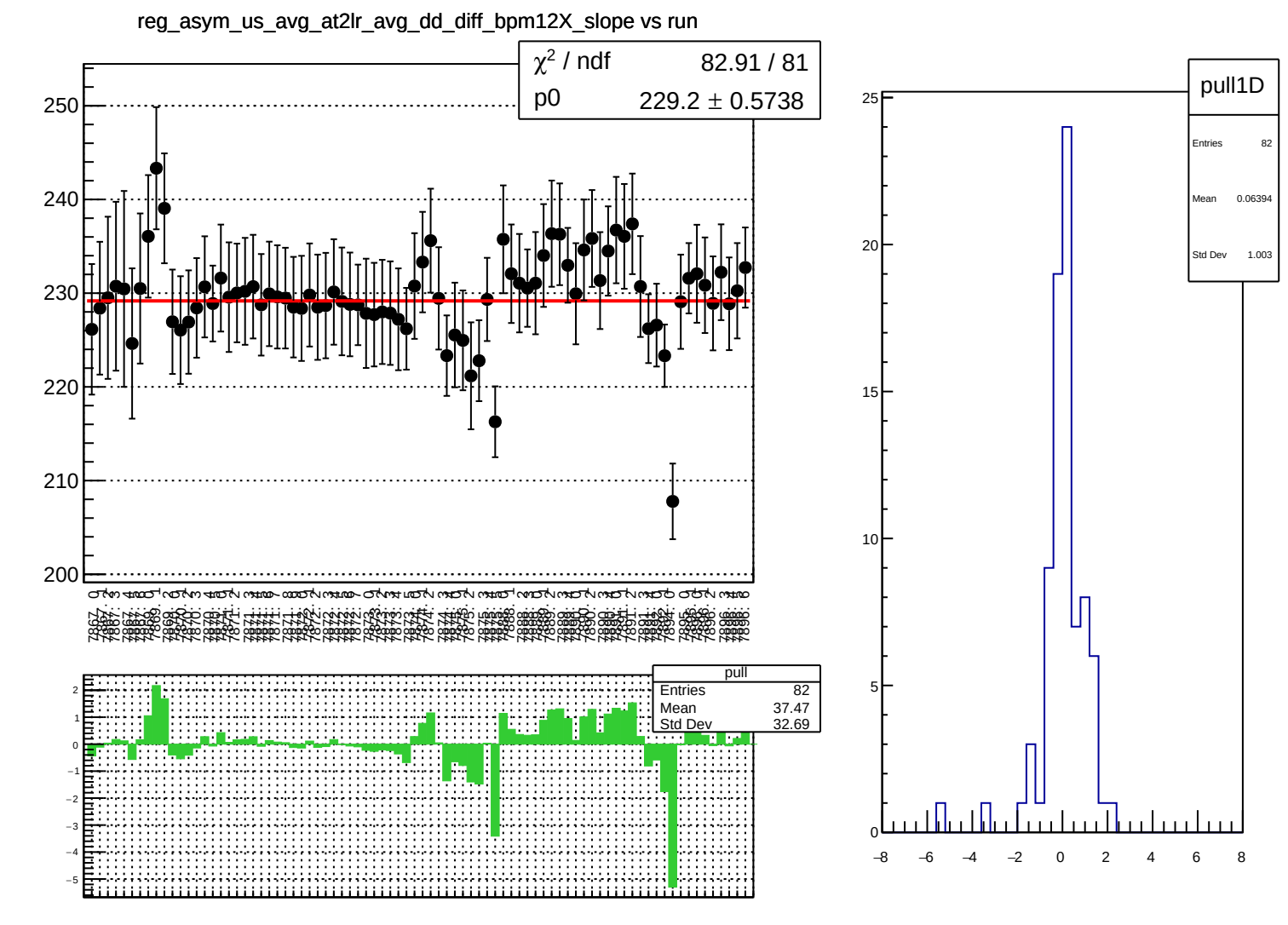

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 147.2 / 81
p0 −311 ± 0.7758
−280
−300
−320
−340
−360
pull
Entries 82
Mean −13.51
Std Dev 0
pull1D
Entries 82
Mean −0.137
Std Dev 1.333

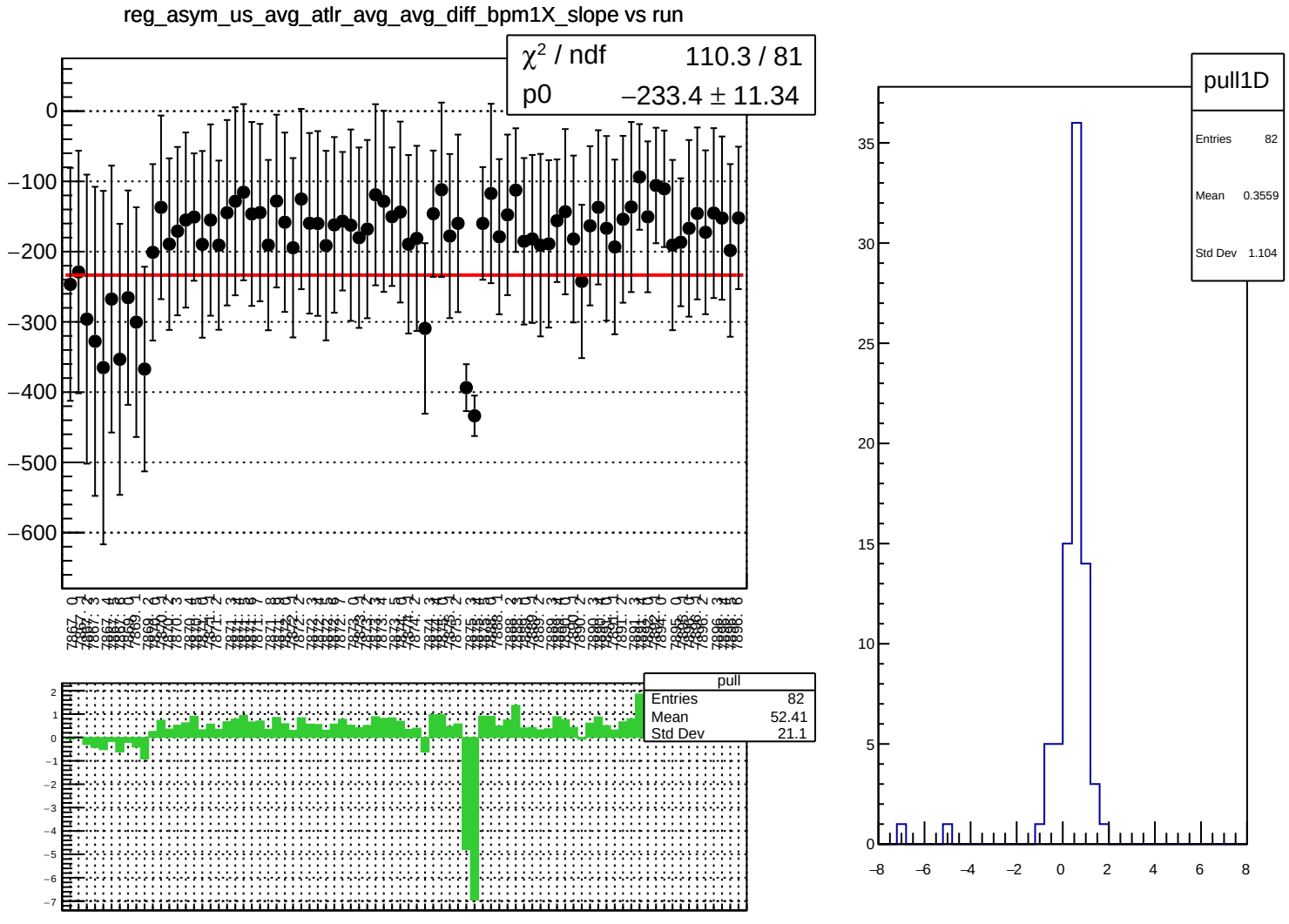

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 139.4 / 81
p0 269.7 ± 13.88
pull
Entries 82
Mean 46.62
Std Dev 26.22
pull1D
Entries 82
Mean −0.5518
Std Dev 0.7746

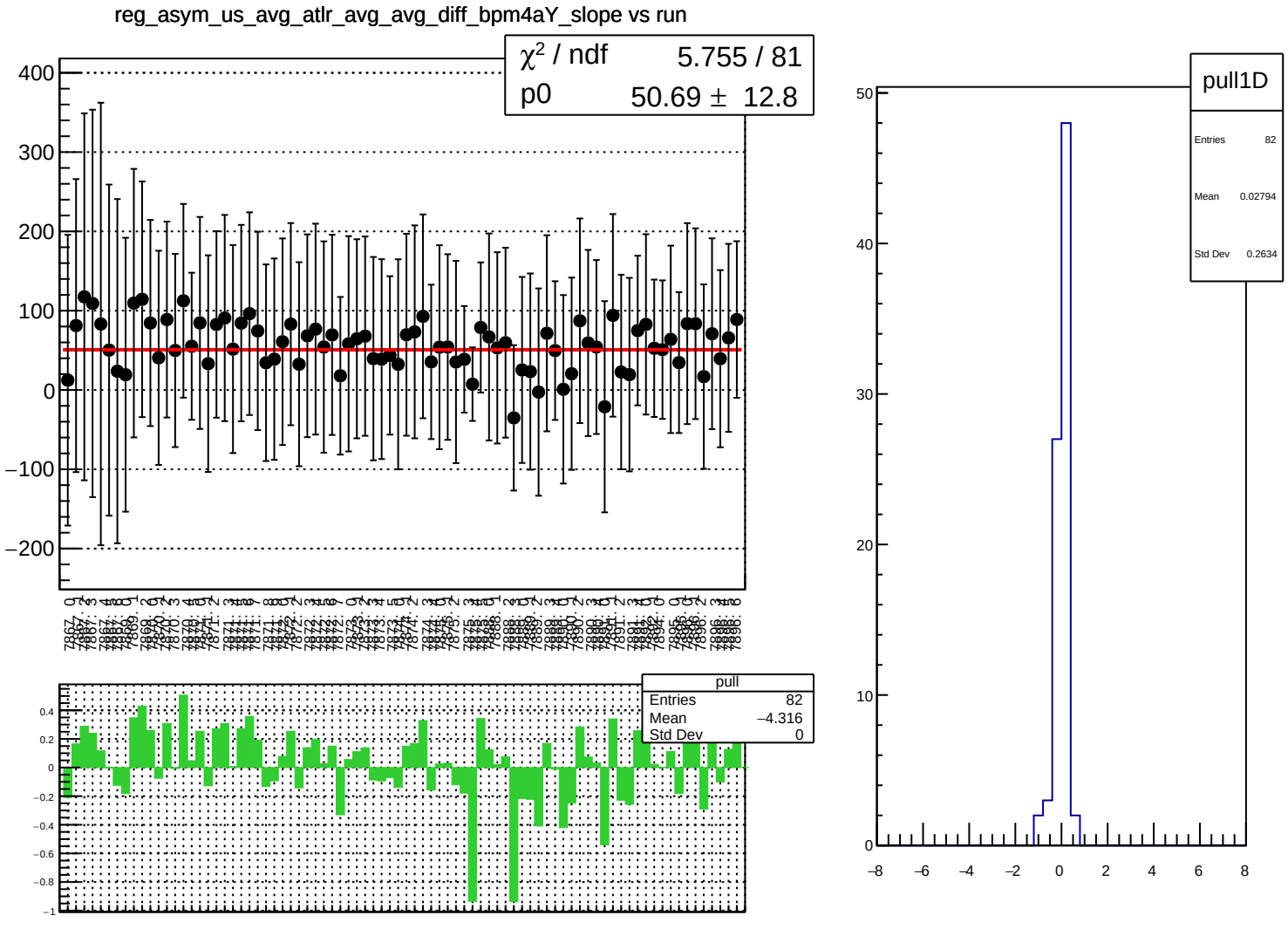

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.54 / 81
p0 −51.57 ± 15.6
pull
Entries 82
Mean 1030
Std Dev 0
pull1D
Entries 82
Mean 0.001064
Std Dev 0.2353

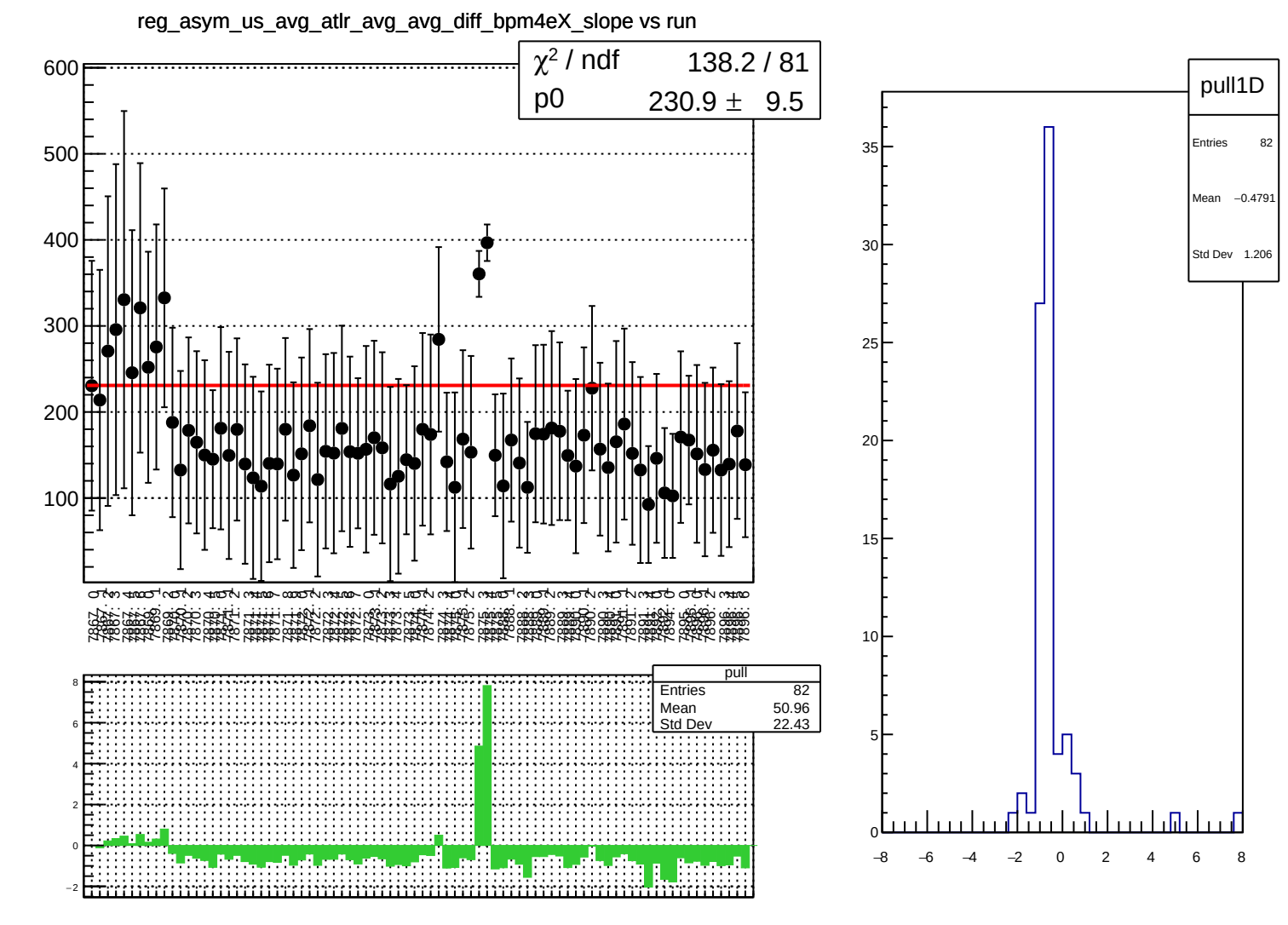

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 179.8 / 81
p0 −281.5 ± 11.65
pull
Entries 82
Mean 46.17
Std Dev 26.04
pull1D
Entries 82
Mean 0.7128
Std Dev 0.8221

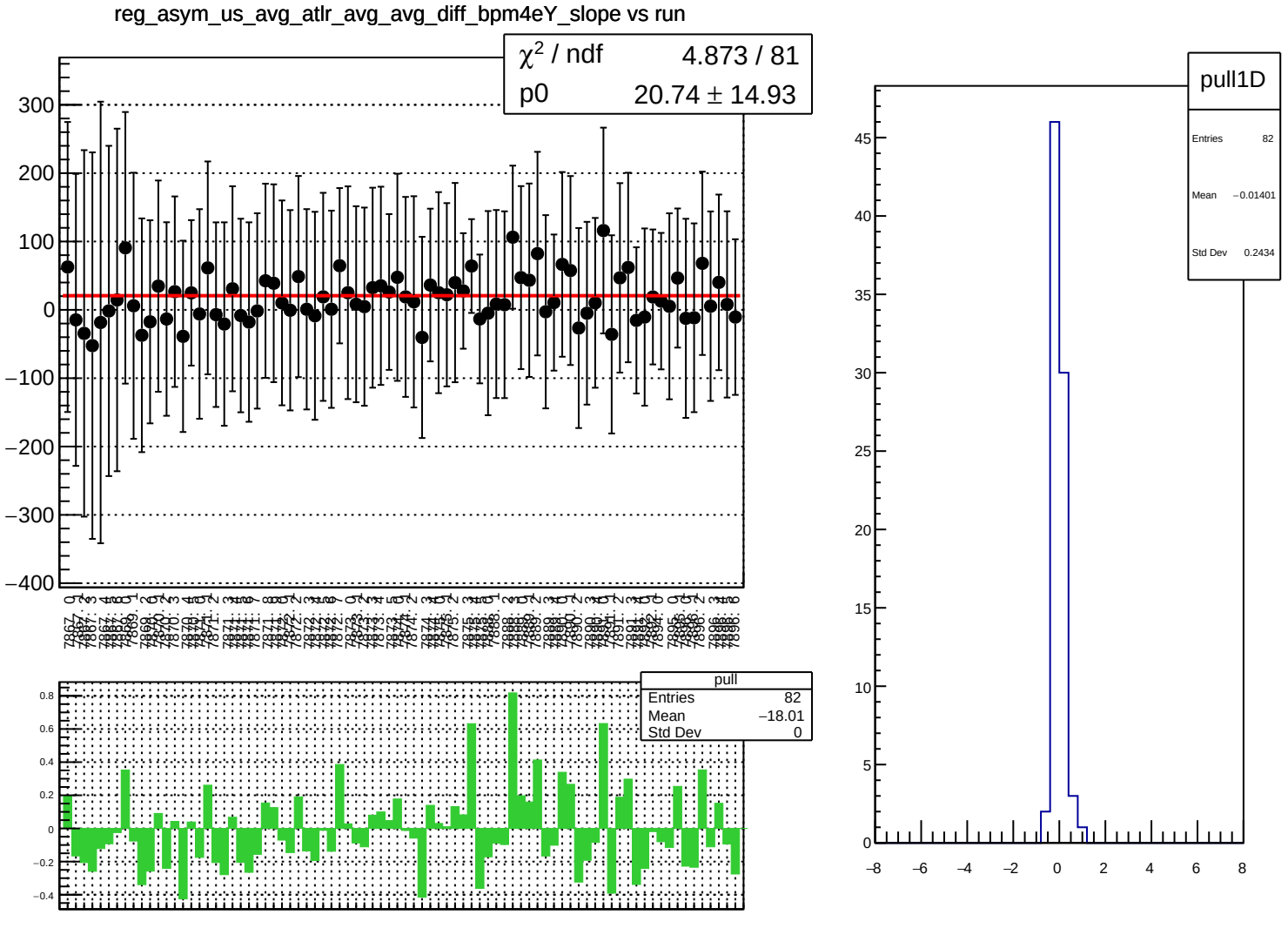

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.096 / 81
p0 −17.17 ± 18.17
pull
Entries 82
Mean −324.5
Std Dev 0
pull1D
Entries 82
Mean 0.004263
Std Dev 0.2235

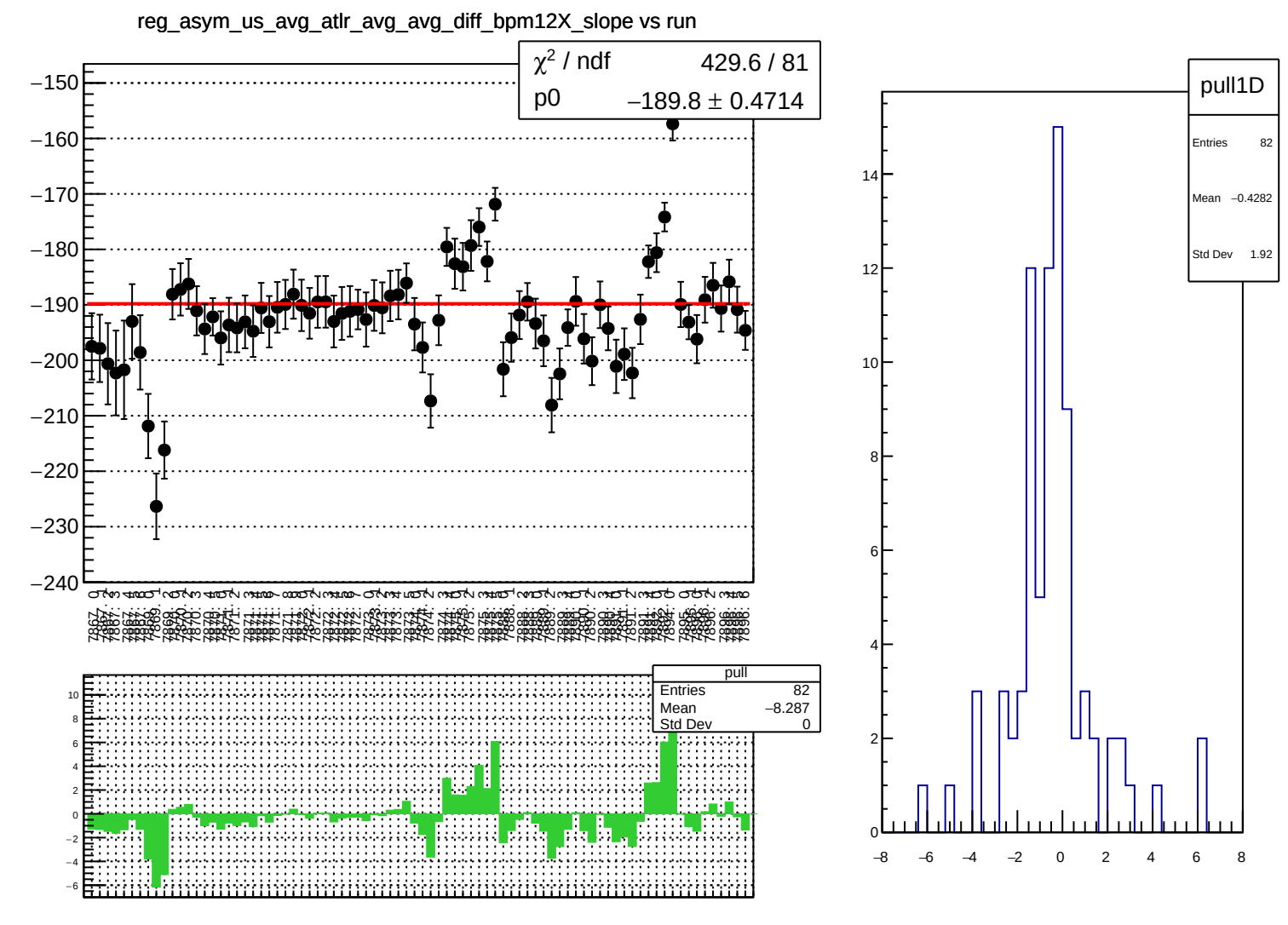

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 82.91 / 81
p0 229.2 ± 0.5738
250
240
230
220
210
200
pull
Entries 82
Mean 37.47
Std Dev 32.69
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 82
Mean 0.06394
Std Dev 1.003
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

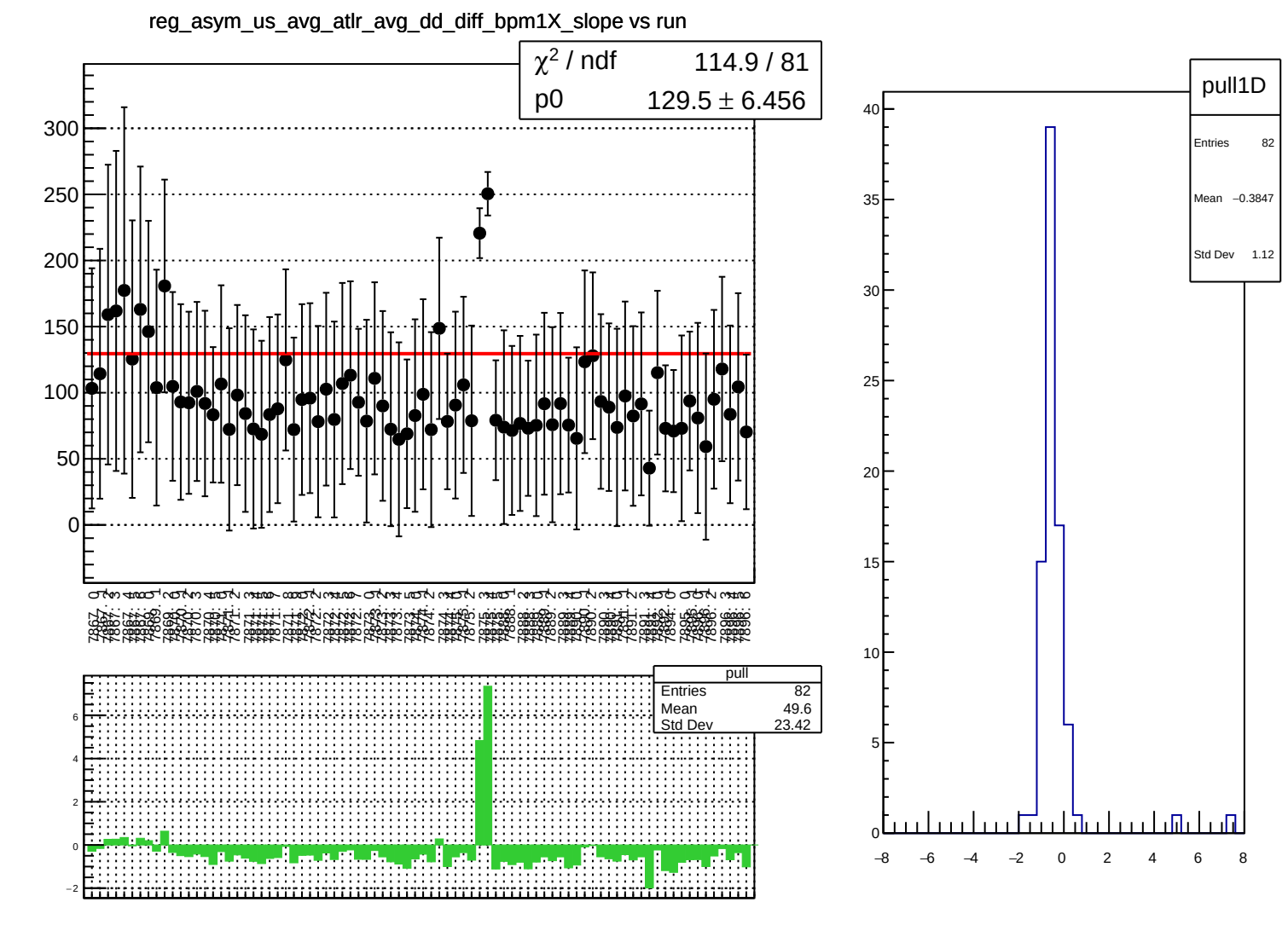

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 110.3 / 81
p0 −233.4 ± 11.34
pull
Entries 82
Mean 52.41
Std Dev 21.1
pull1D
Entries 82
Mean 0.3559
Std Dev 1.104

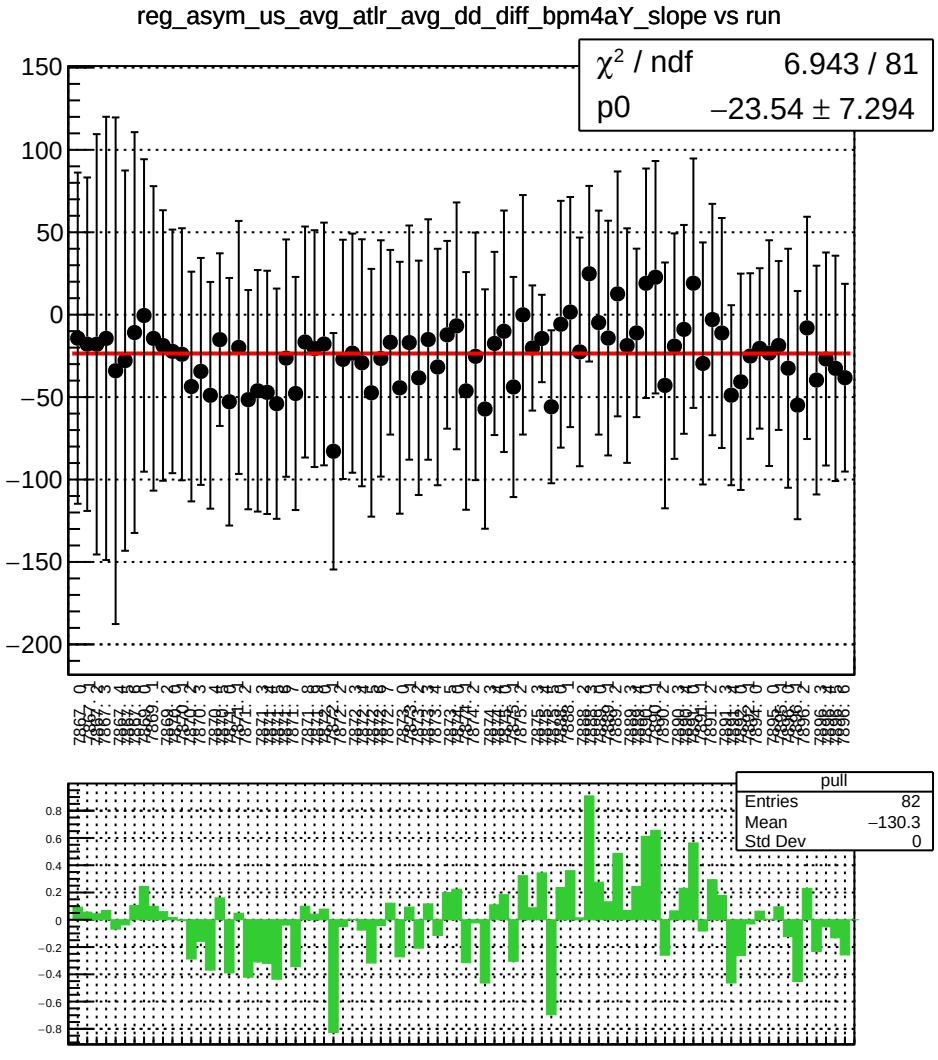

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.755 / 81
p0 50.69 ± 12.8
pull
Entries 82
Mean −4.316
Std Dev 0
pull1D
Entries 82
Mean 0.02794
Std Dev 0.2634

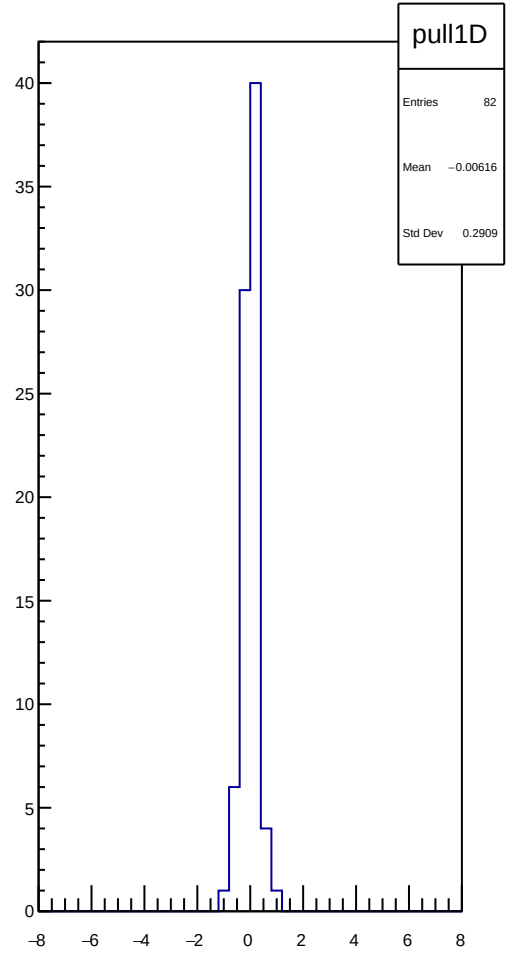

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 138.2 / 81
p0 230.9 ± 9.5
pull
Entries 82
Mean 50.96
Std Dev 22.43
pull1D
Entries 82
Mean −0.4791
Std Dev 1.206

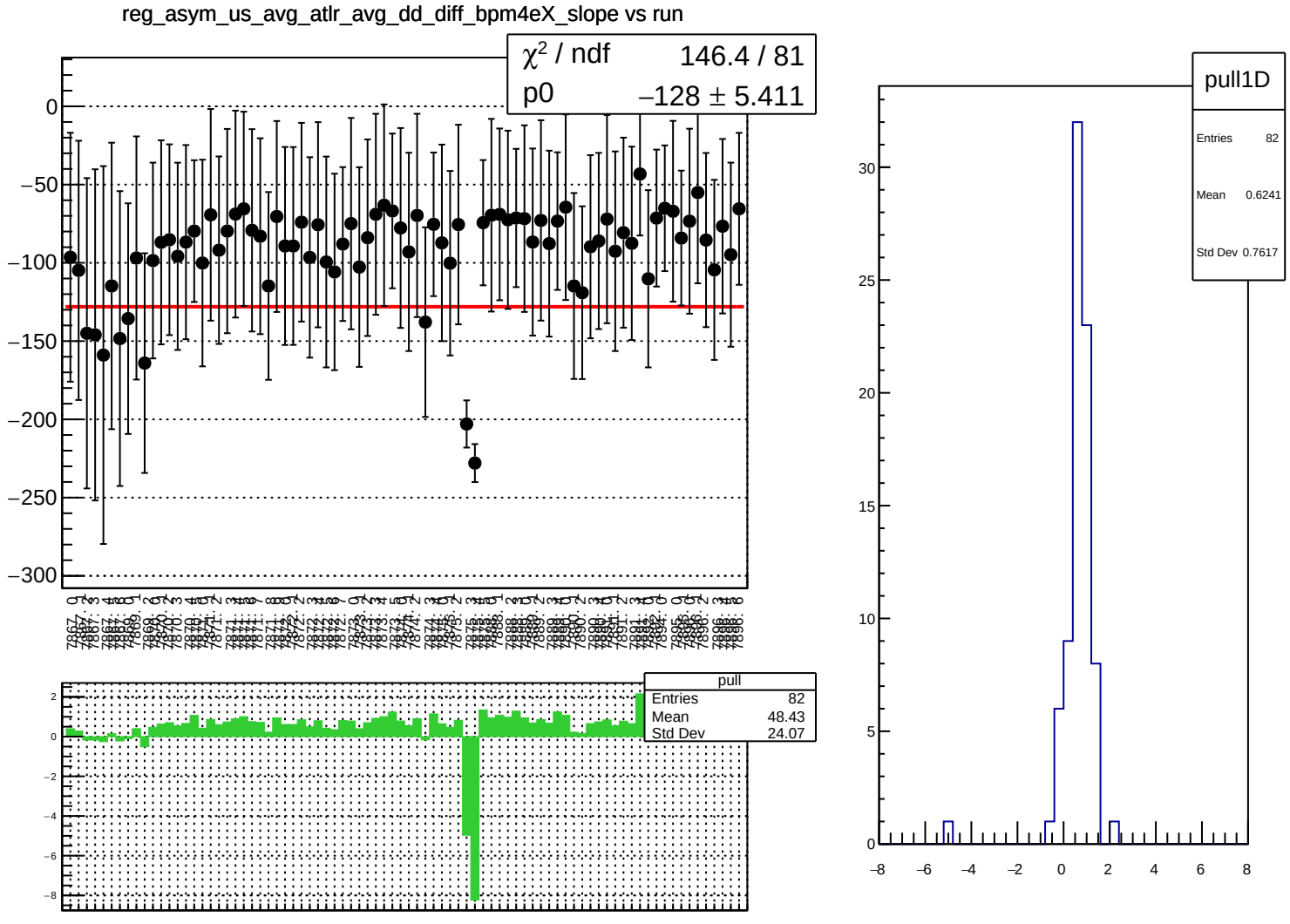

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.873 / 81
p0 20.74 ± 14.93
pull
Entries 82
Mean −18.01
Std Dev 0
pull1D
Entries 82
Mean −0.01401
Std Dev 0.2434

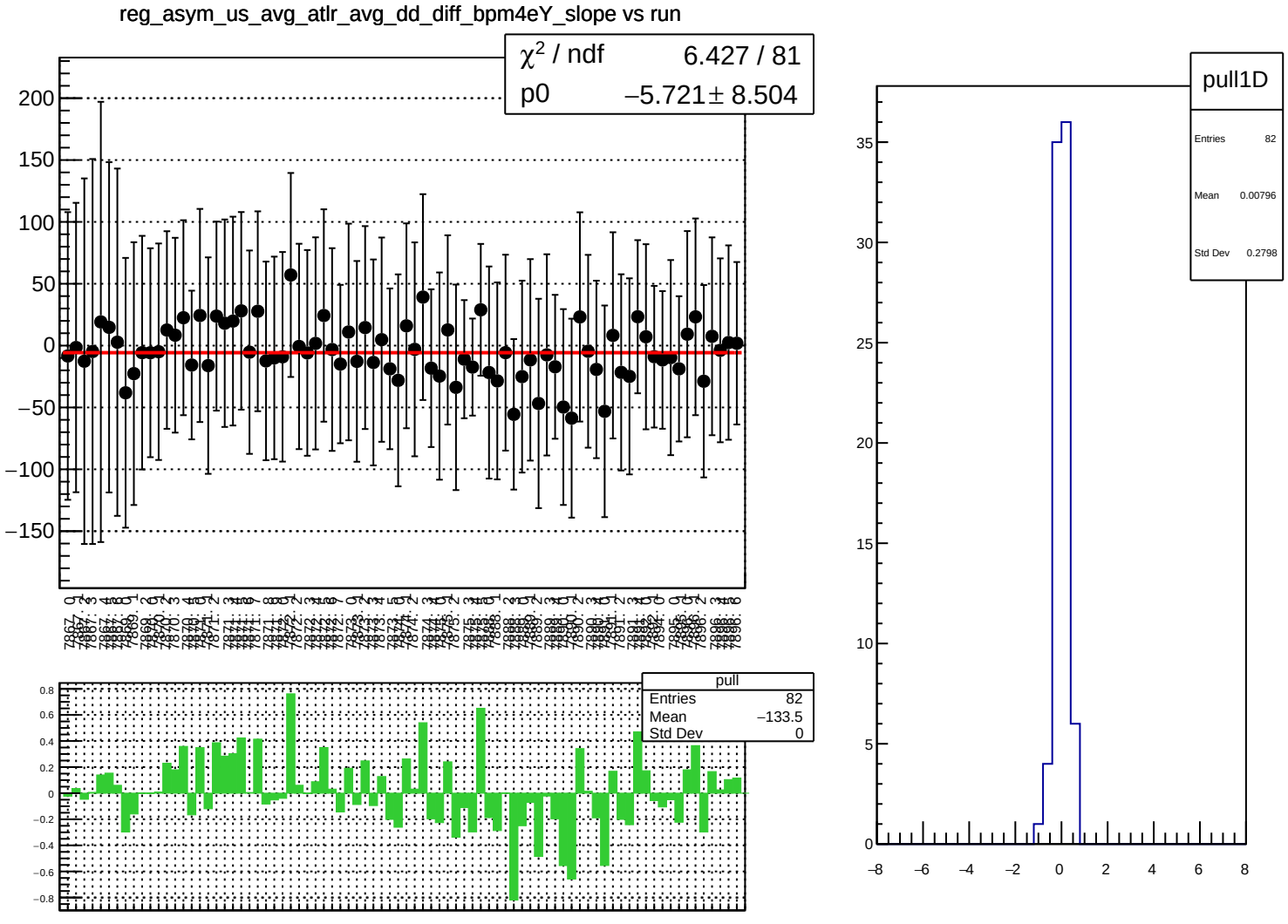

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 429.6 / 81
p0 −189.8 ± 0.4714
pull
Entries 82
Mean −8.287
Std Dev 0
pull1D
Entries 82
Mean −0.4282
Std Dev 1.92

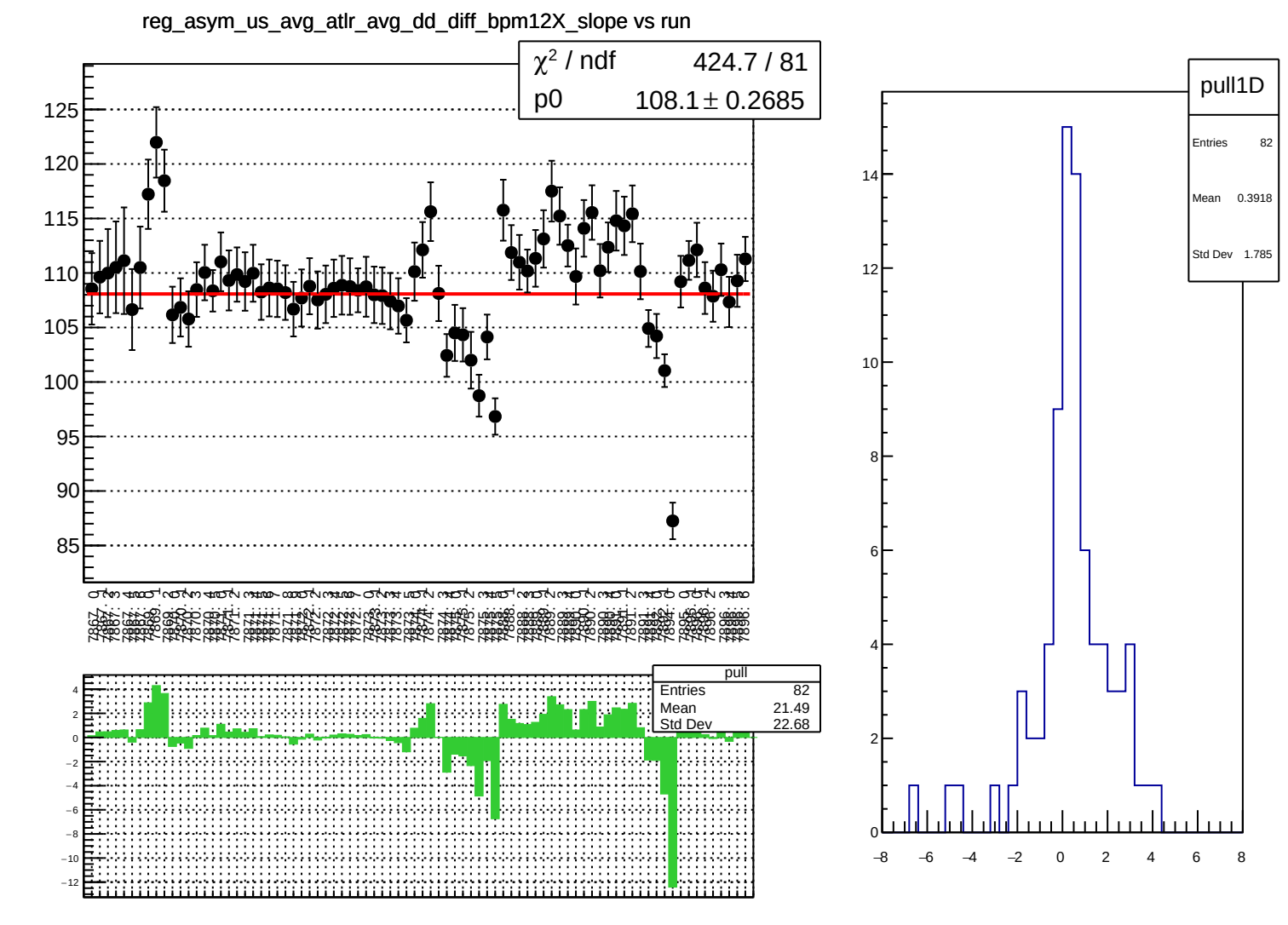

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 114.9 / 81
p0 129.5 ± 6.456
pull
Entries 82
Mean 49.6
Std Dev 23.42
pull1D
Entries 82
Mean −0.3847
Std Dev 1.12

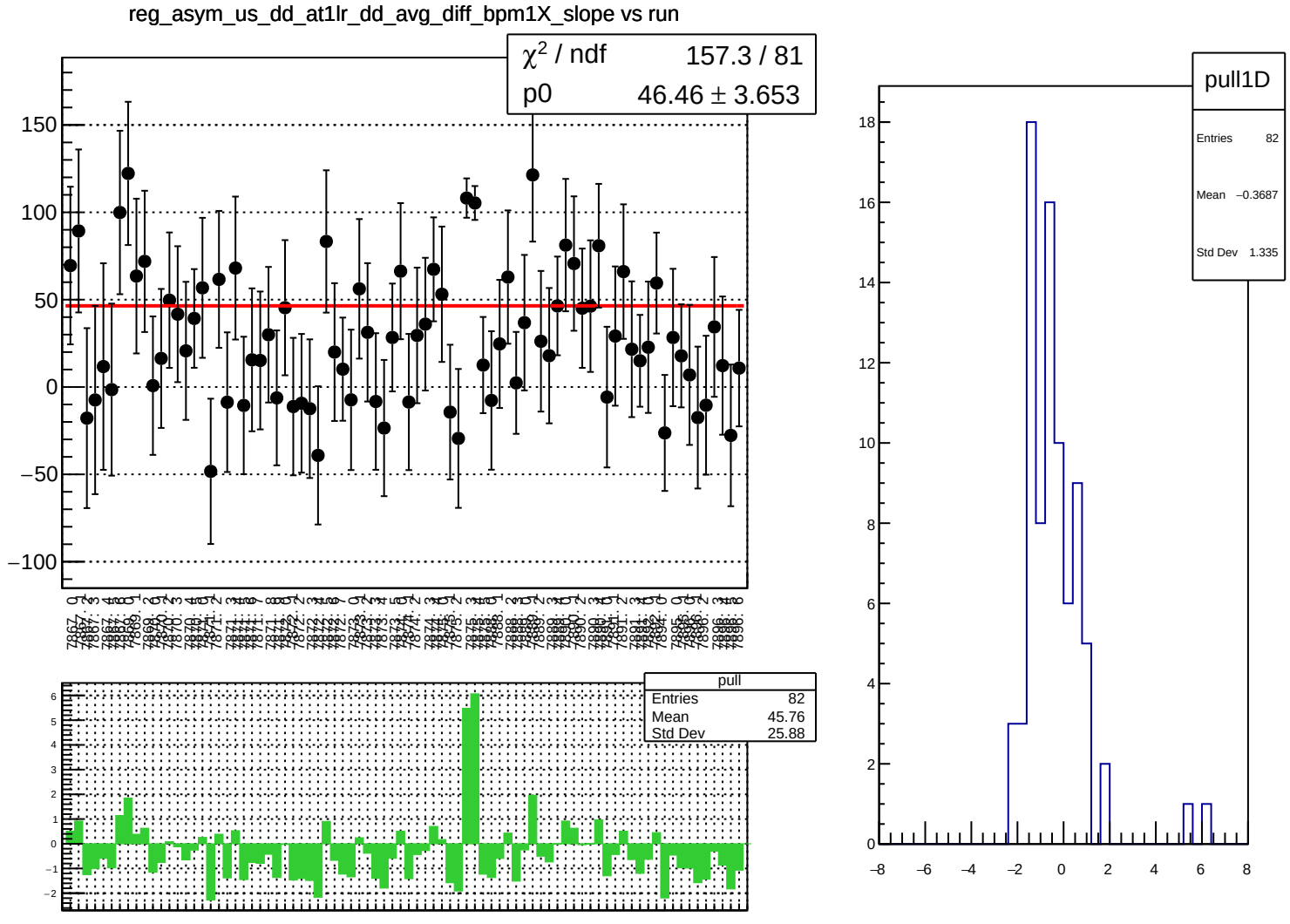

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.943 / 81
p0 −23.54 ± 7.294
pull
Entries 82
Mean −130.3
Std Dev 0

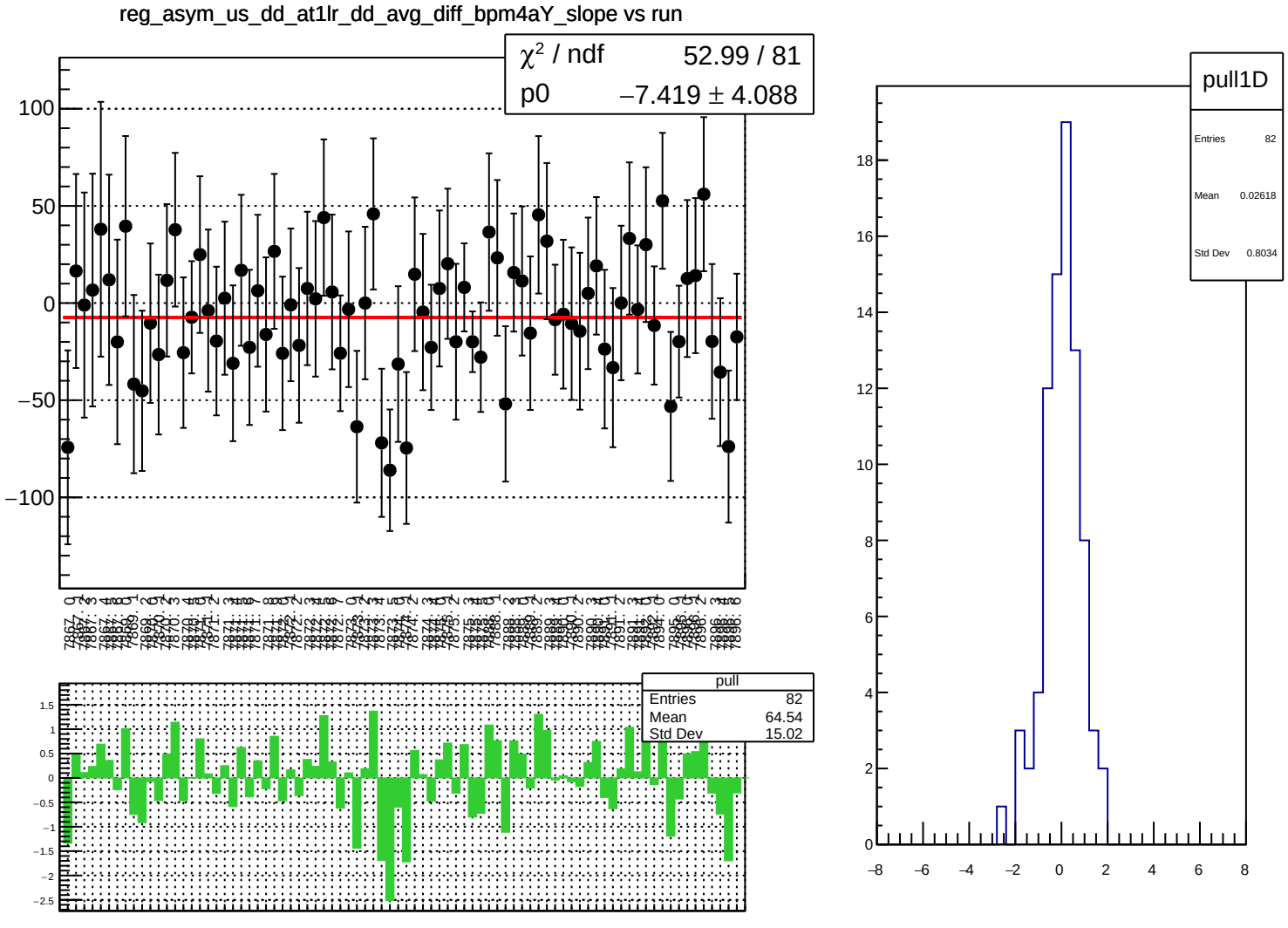

pull1D
Entries 82
Mean −0.00616
Std Dev 0.2909

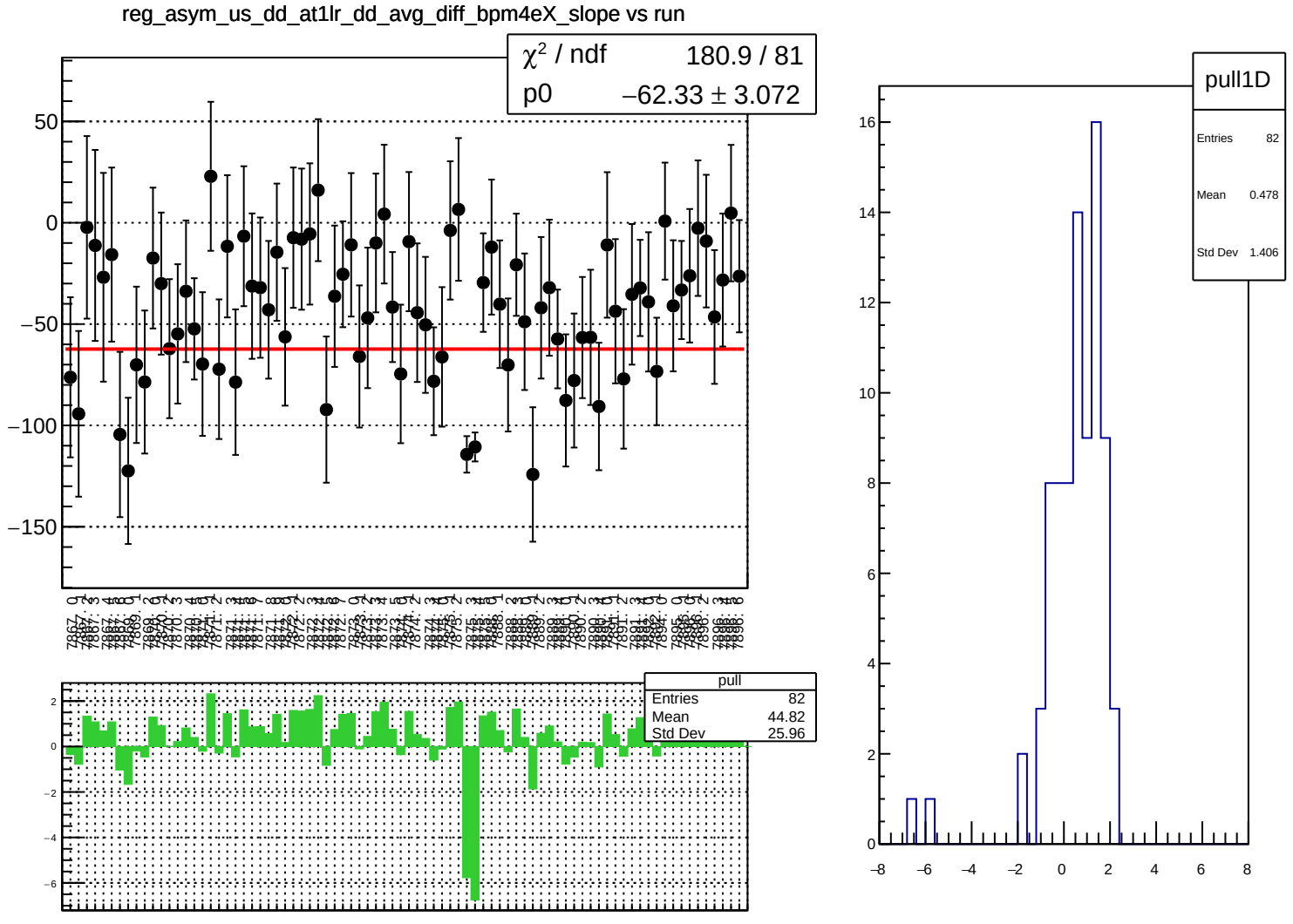

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 146.4 / 81
p0 −128 ± 5.411
pull
Entries 82
Mean 48.43
Std Dev 24.07
pull1D
Entries 82
Mean 0.6241
Std Dev 0.7617

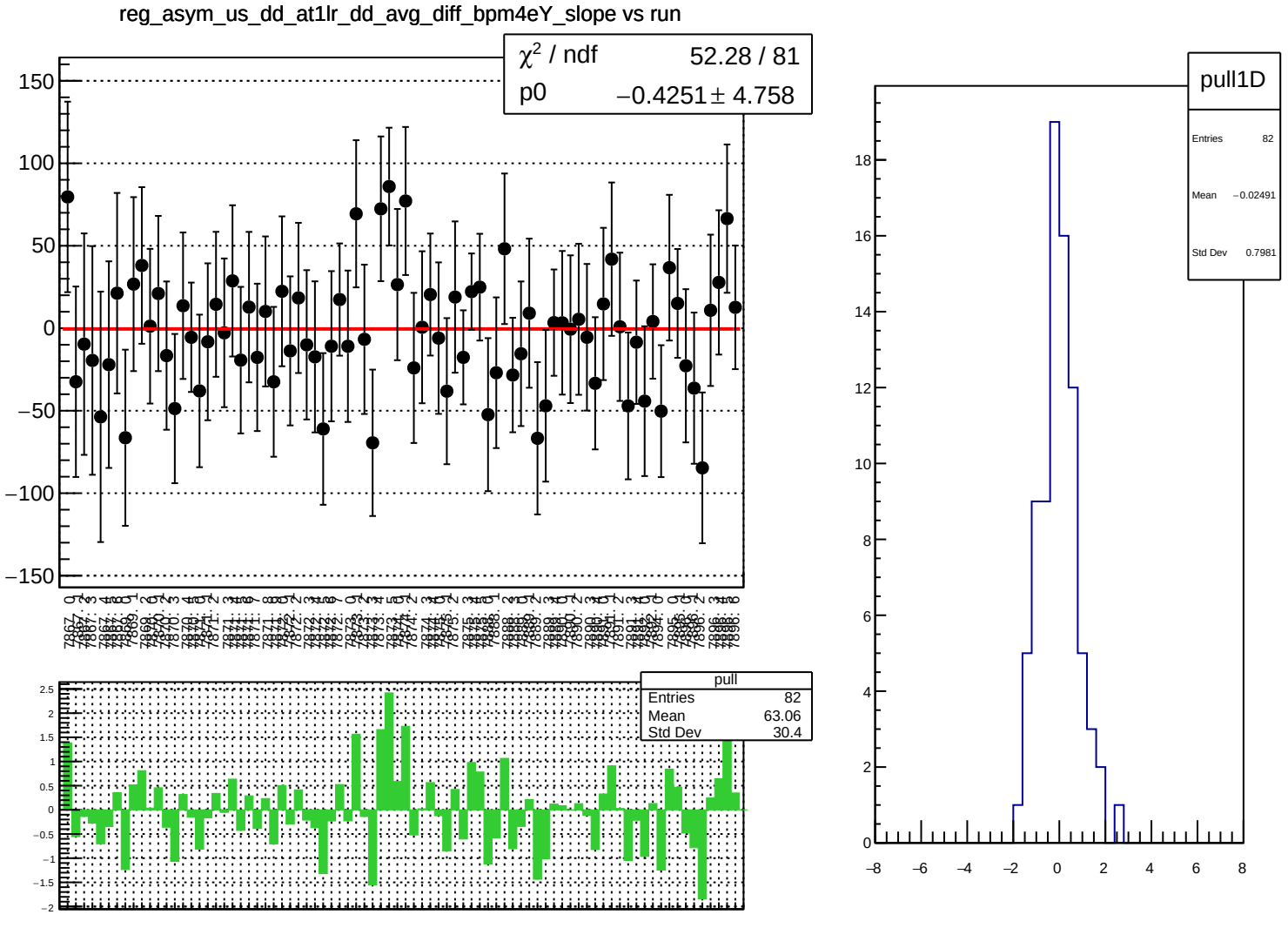

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.427 / 81
p0 −5.721 ± 8.504
pull
Entries 82
Mean −133.5
Std Dev 0
pull1D
Entries 82
Mean 0.00796
Std Dev 0.2798

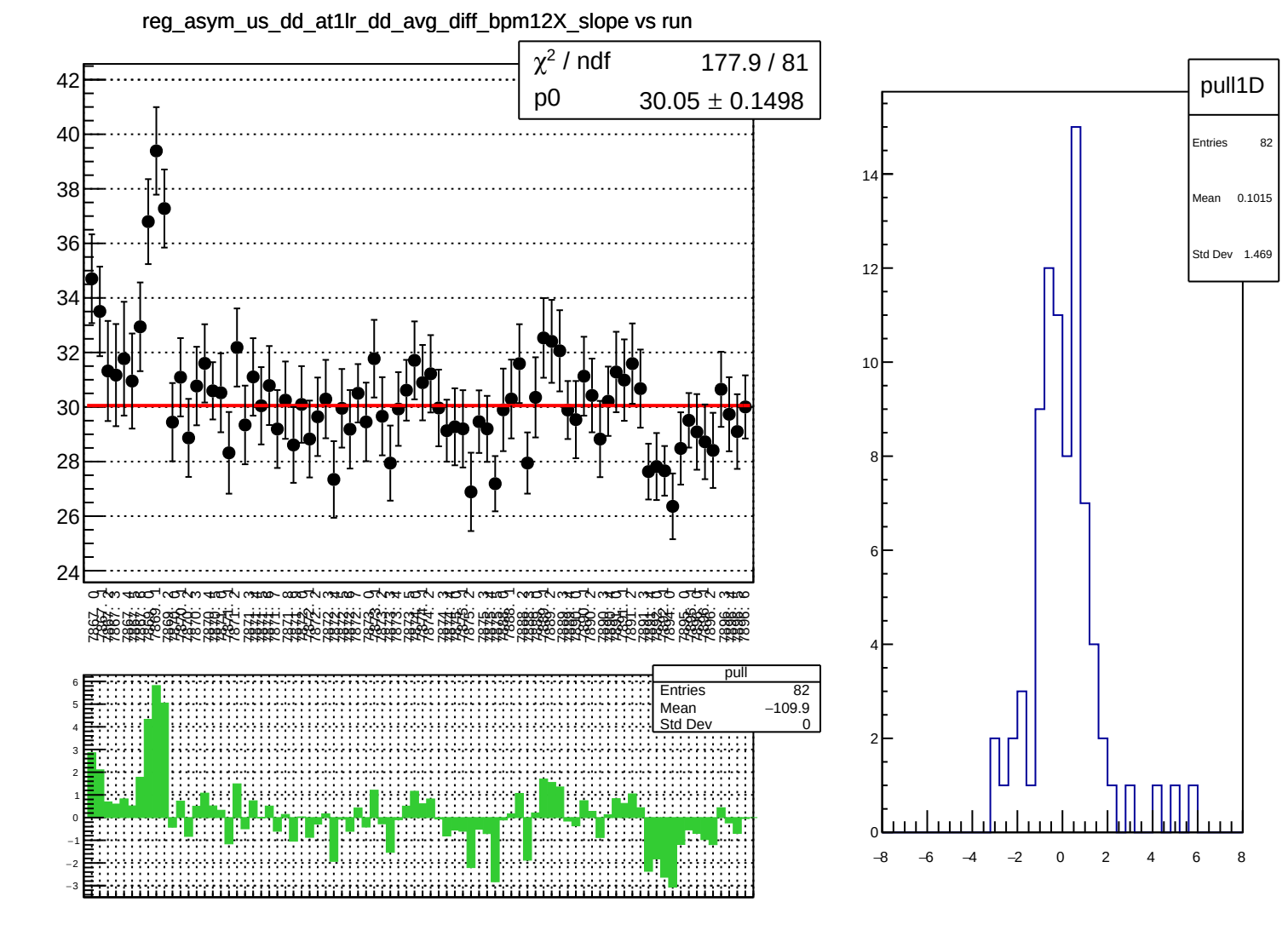

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 424.7 / 81
p0 108.1 ± 0.2685
pull
Entries 82
Mean 21.49
Std Dev 22.68
pull1D
Entries 82
Mean 0.3918
Std Dev 1.785

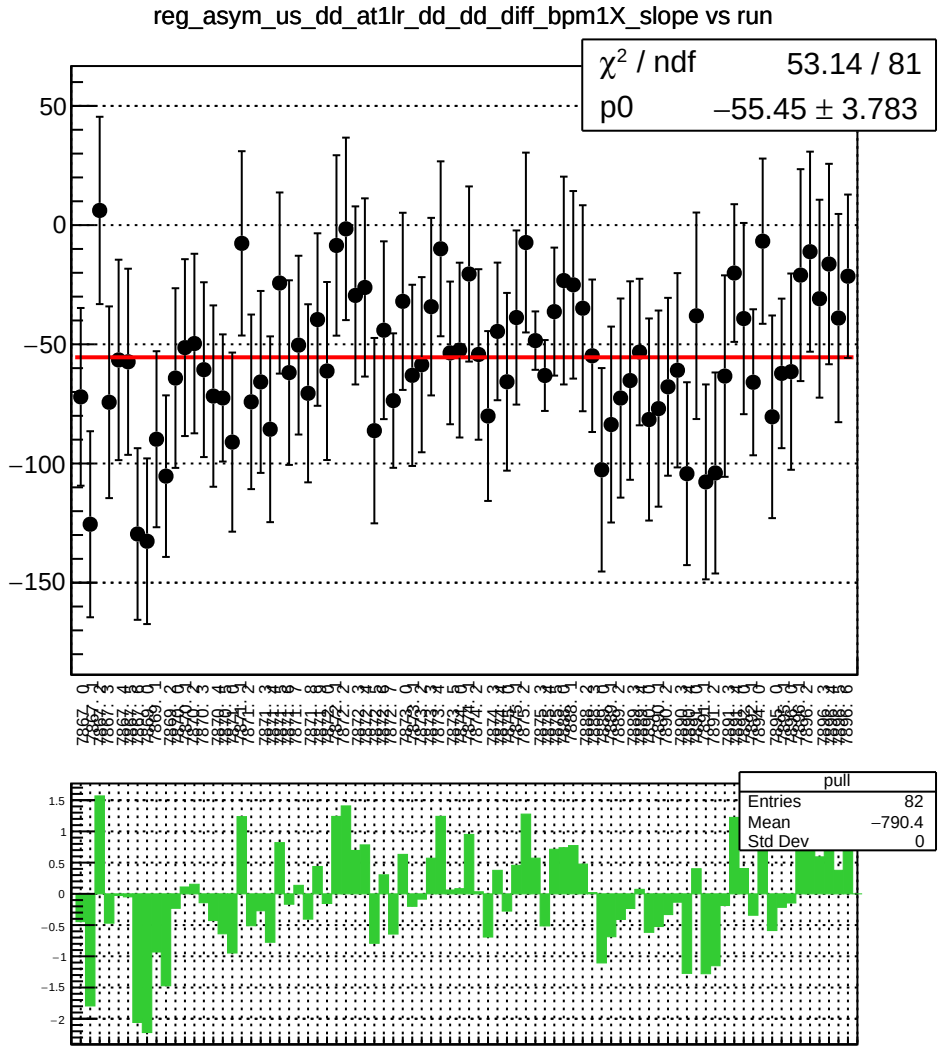

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 157.3 / 81
p0 46.46 ± 3.653
pull
Entries 82
Mean 45.76
Std Dev 25.88
pull1D
Entries 82
Mean −0.3687
Std Dev 1.335

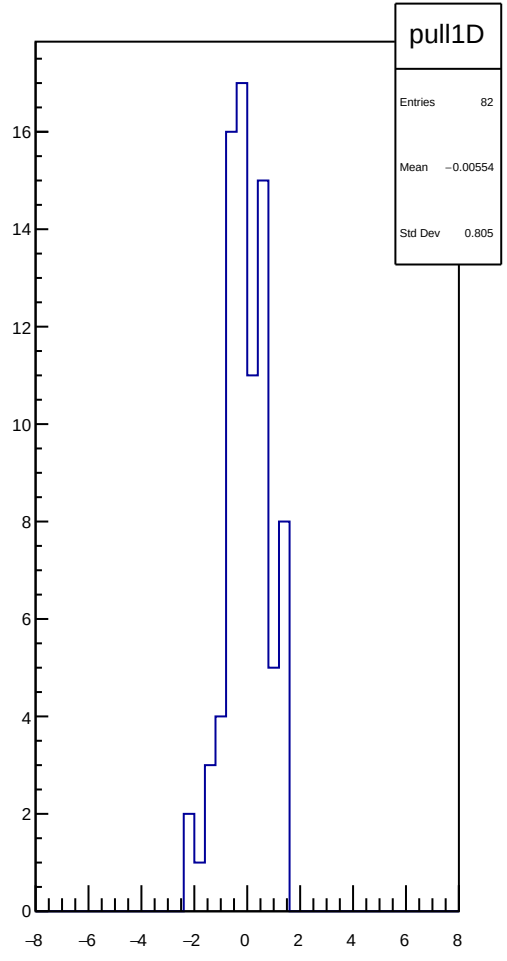

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.99 / 81
p0 −7.419 ± 4.088
100
50
0
−50
−100
pull
Entries 82
Mean 64.54
Std Dev 15.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean 0.02618
Std Dev 0.8034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

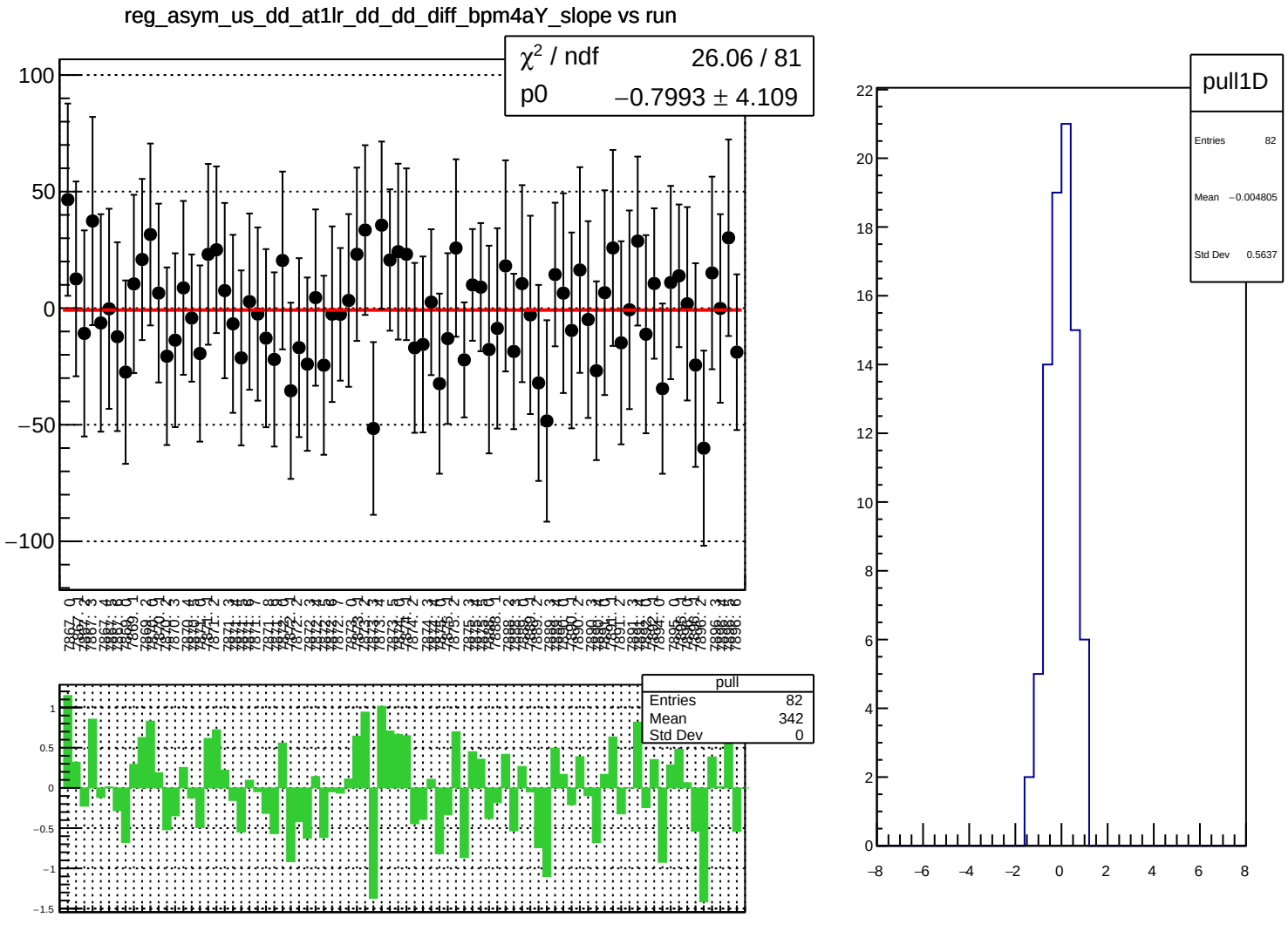

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 180.9 / 81
p0 −62.33 ± 3.072
50
0
−50
−100
−150
pull
Entries 82
Mean 44.82
Std Dev 25.96
2
0
−2
−4
−6
pull1D
Entries 82
Mean 0.478
Std Dev 1.406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

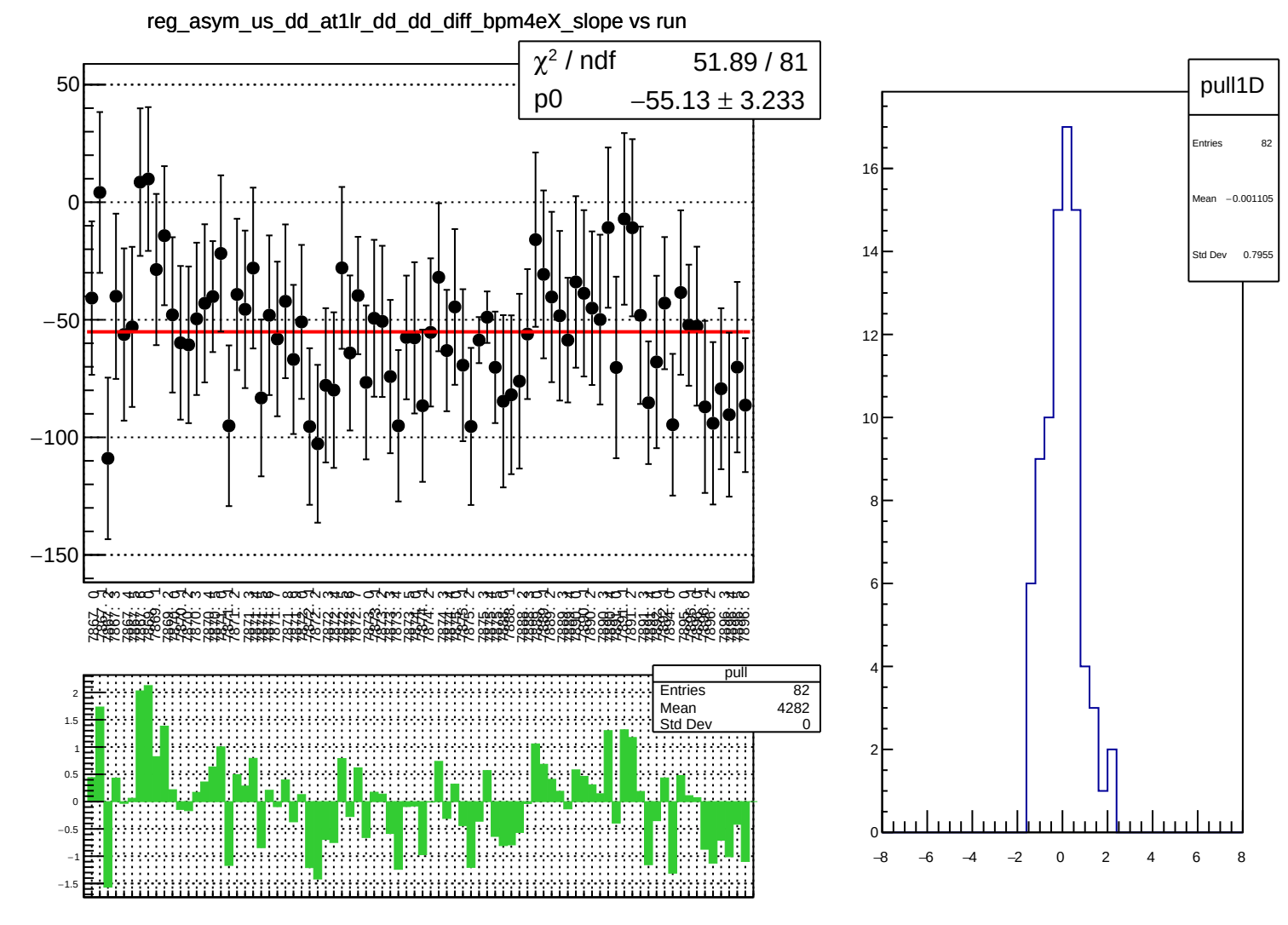

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.28 / 81
p0 −0.4251 ± 4.758
pull
Entries 82
Mean 63.06
Std Dev 30.4
pull1D
Entries 82
Mean −0.02491
Std Dev 0.7981

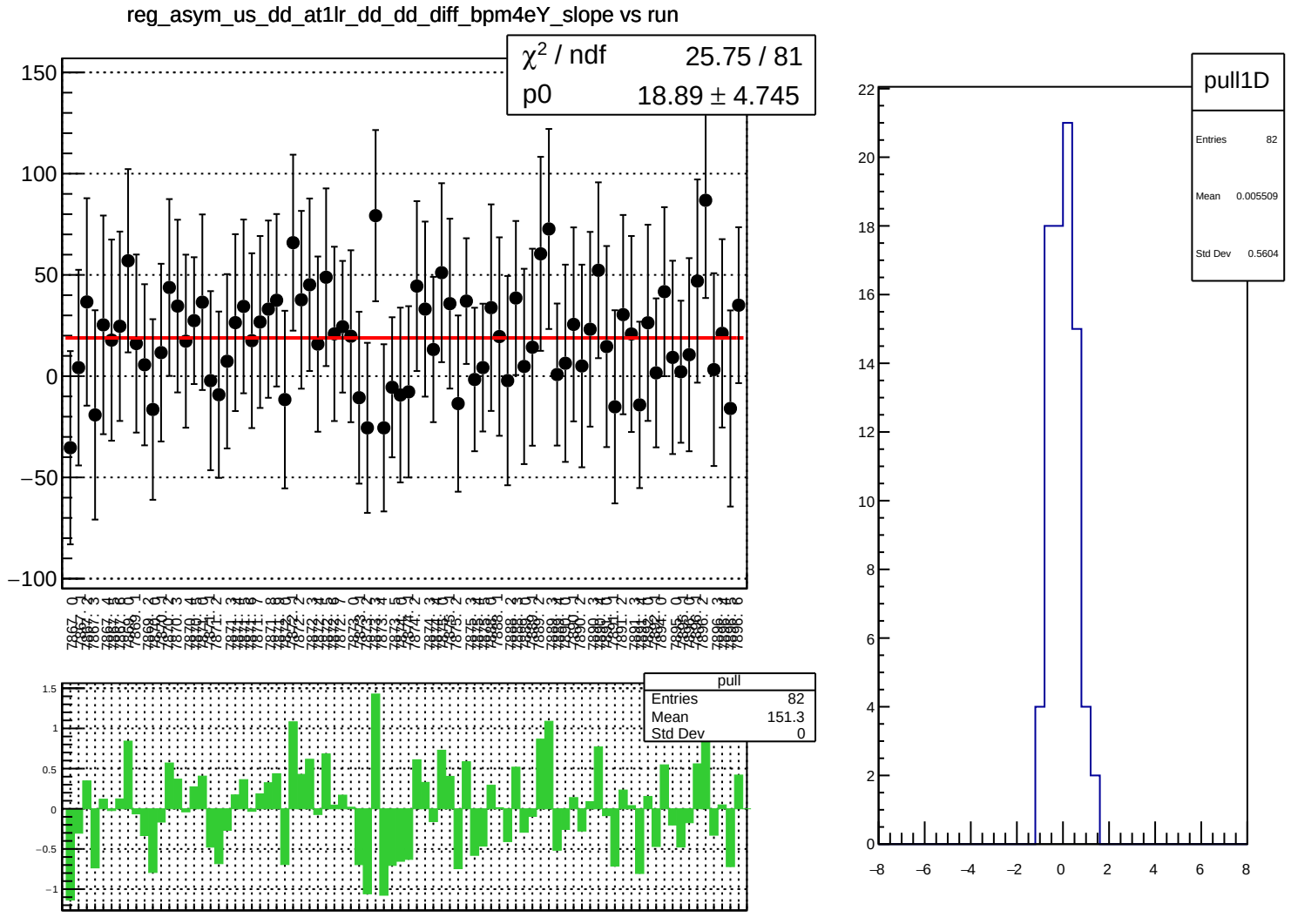

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 177.9 / 81
p0 30.05 ± 0.1498
pull
Entries 82
Mean −109.9
Std Dev 0
pull1D
Entries 82
Mean 0.1015
Std Dev 1.469

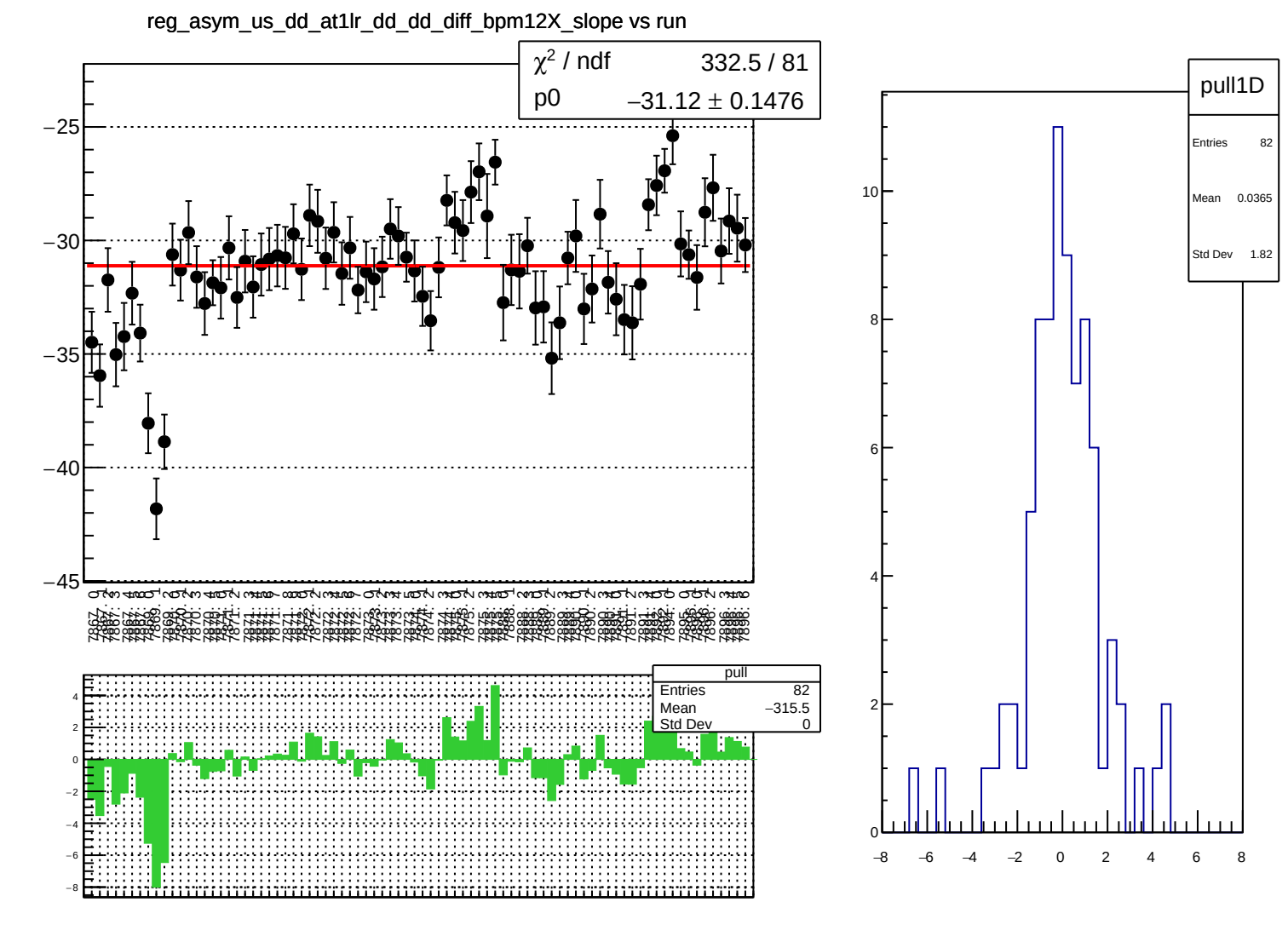

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 53.14 / 81
p0 −55.45 ± 3.783
pull
Entries 82
Mean −790.4
Std Dev 0

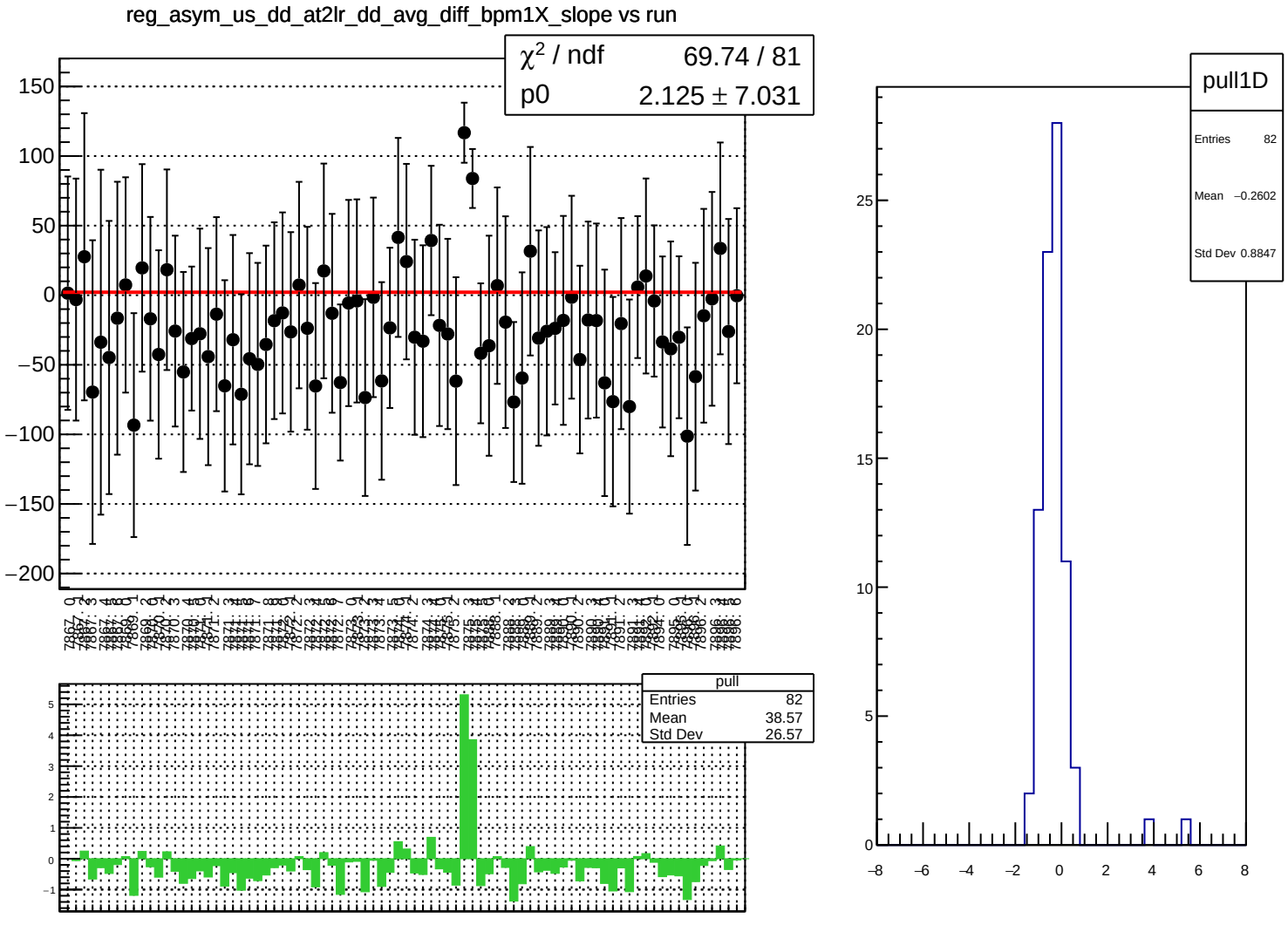

pull1D
Entries 82
Mean −0.00554
Std Dev 0.805

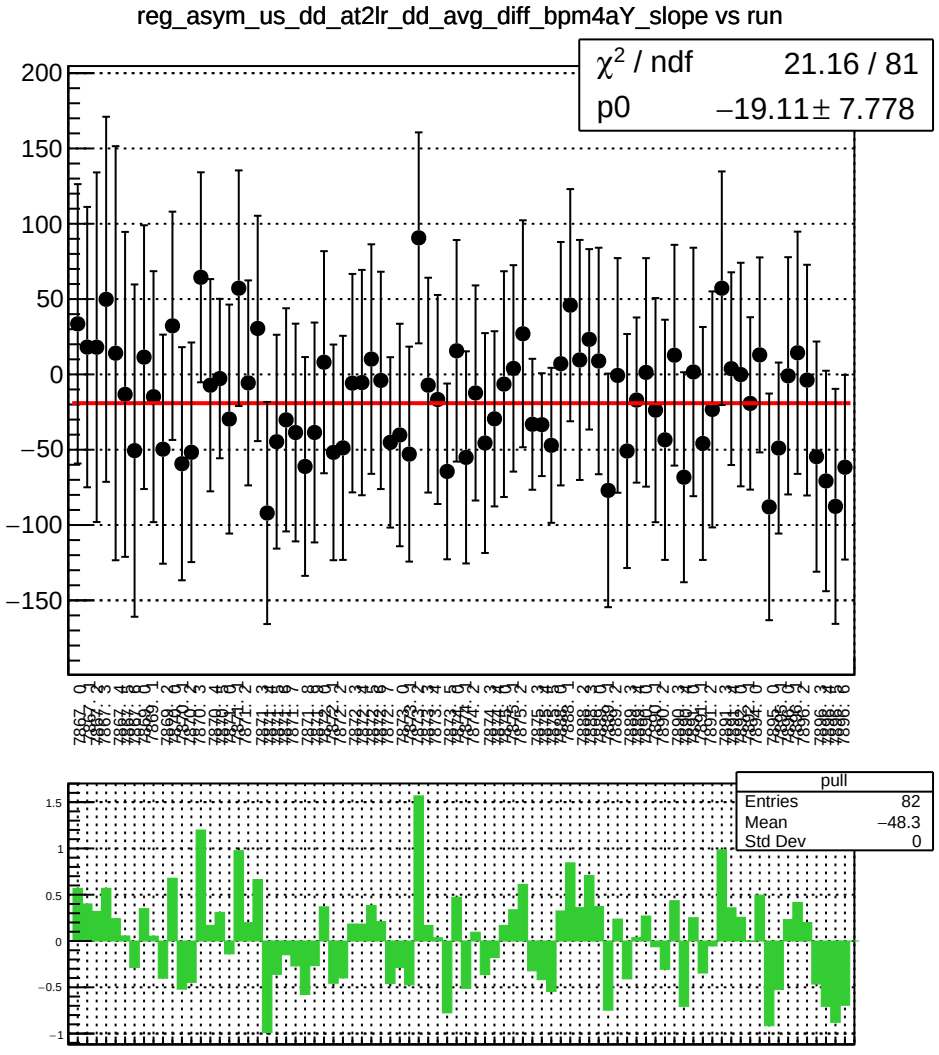

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.06 / 81
p0 −0.7993 ± 4.109
pull
Entries 82
Mean 342
Std Dev 0
pull1D
Entries 82
Mean −0.004805
Std Dev 0.5637

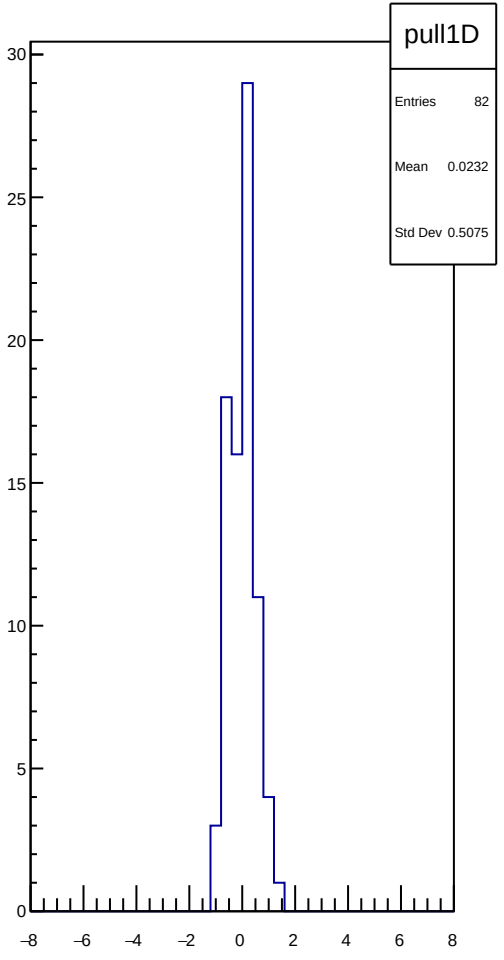

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.89 / 81
p0 −55.13 ± 3.233
pull
Entries 82
Mean 4282
Std Dev 0
pull1D
Entries 82
Mean −0.001105
Std Dev 0.7955

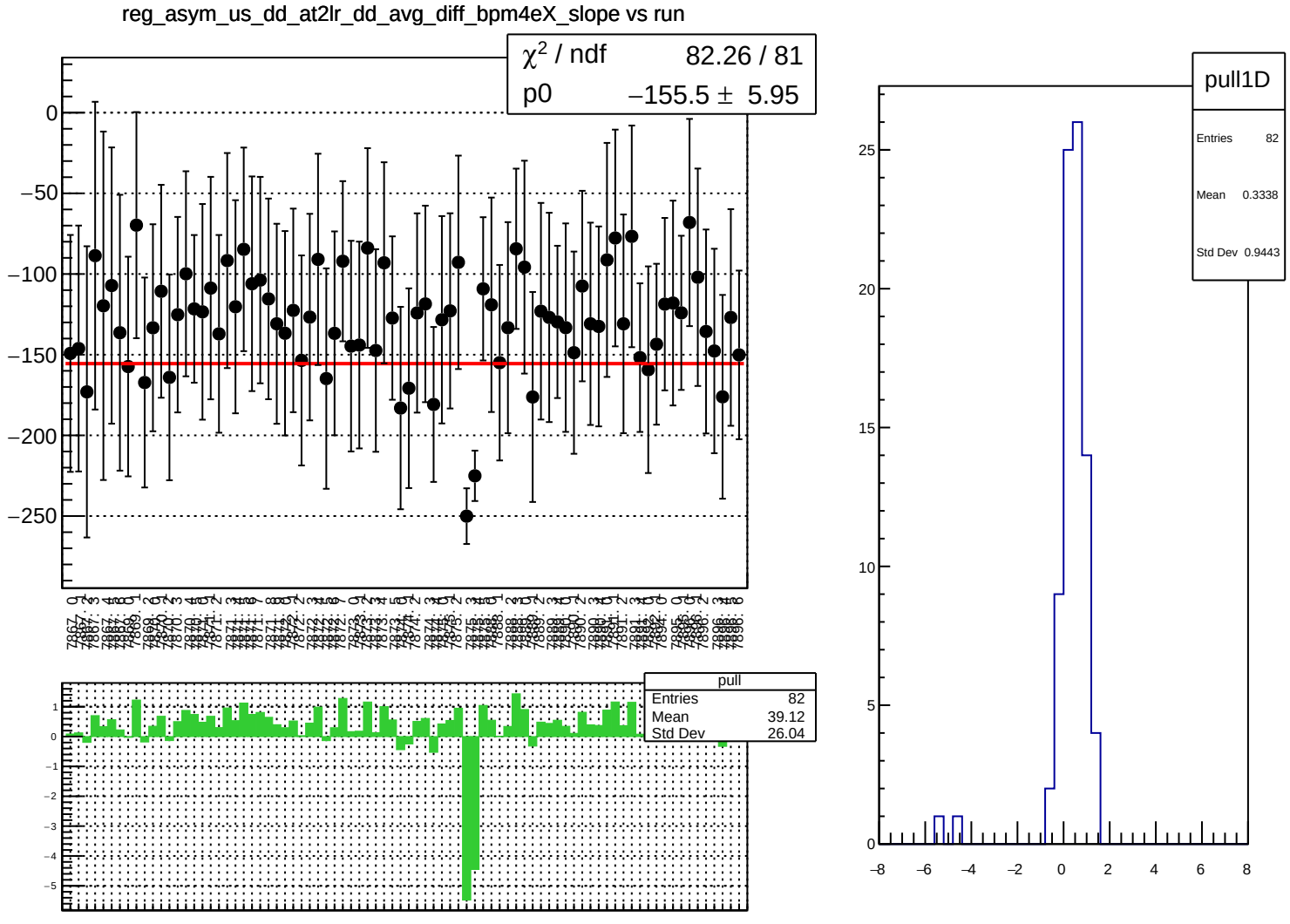

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.75 / 81
p0 18.89 ± 4.745
pull
Entries 82
Mean 151.3
Std Dev 0
pull1D
Entries 82
Mean 0.005509
Std Dev 0.5604

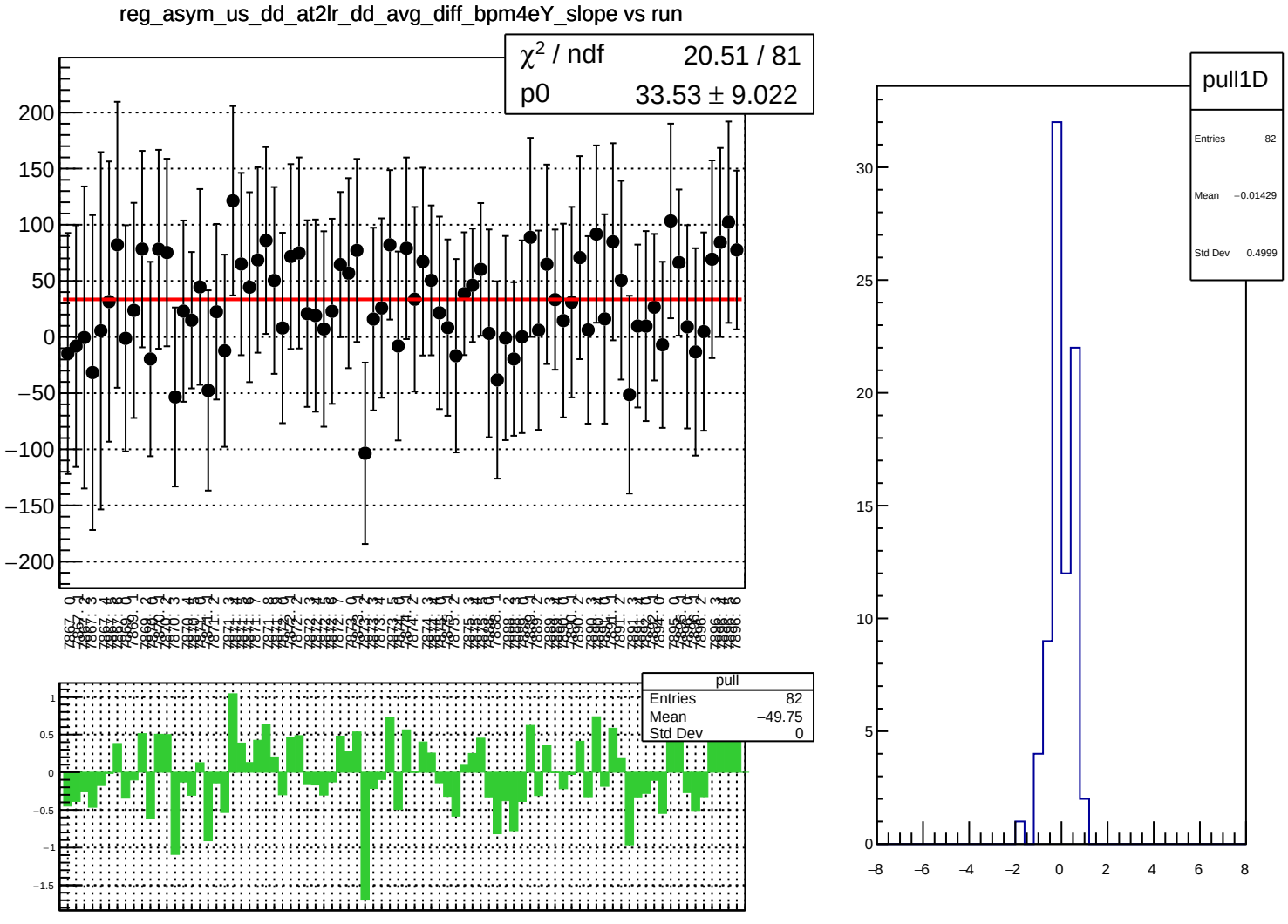

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 332.5 / 81
p0 −31.12 ± 0.1476
pull
Entries 82
Mean −315.5
Std Dev 0
pull1D
Entries 82
Mean 0.0365
Std Dev 1.82

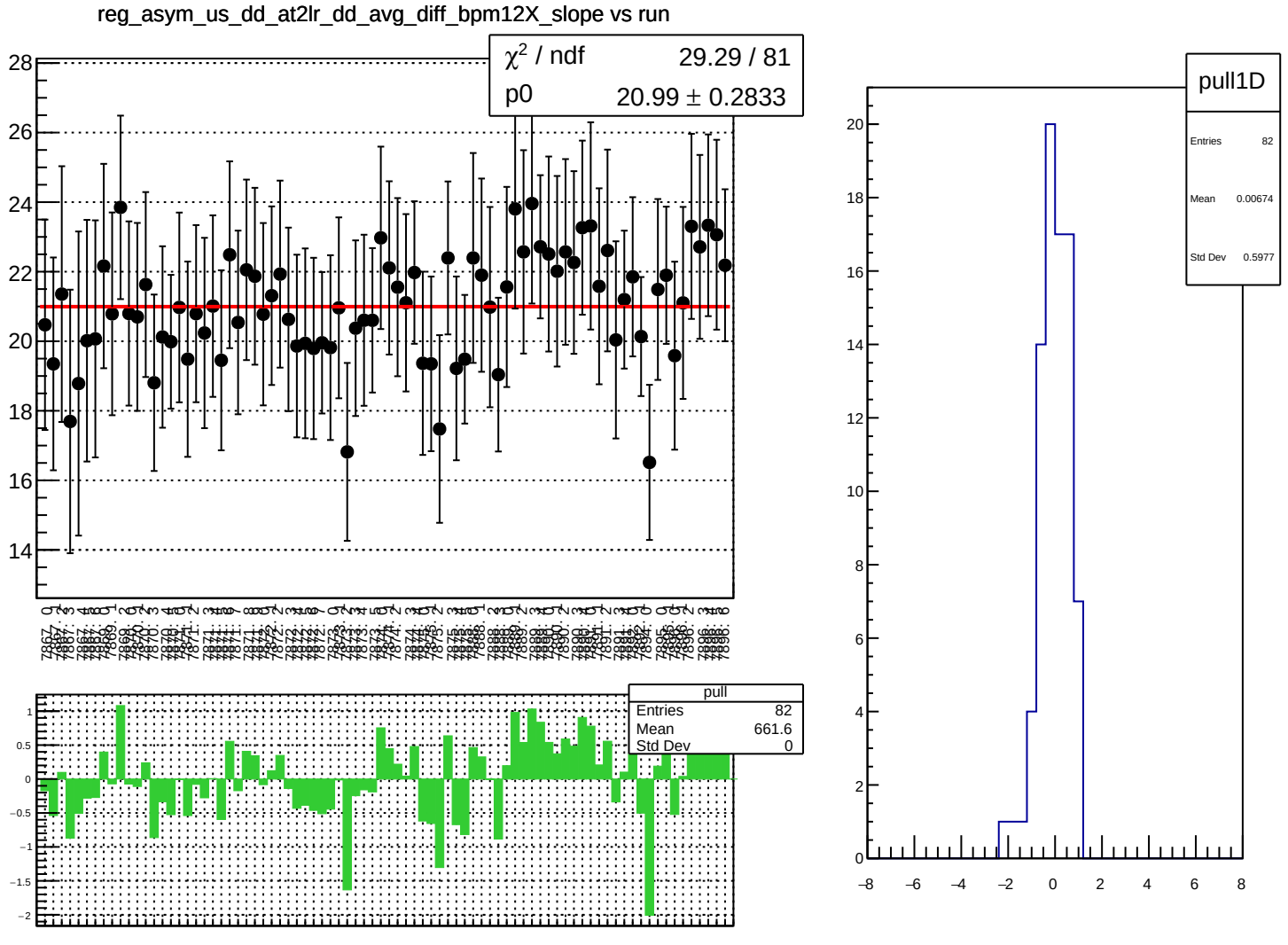

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 69.74 / 81
p0 2.125 ± 7.031
pull
Entries 82
Mean 38.57
Std Dev 26.57
pull1D
Entries 82
Mean −0.2602
Std Dev 0.8847

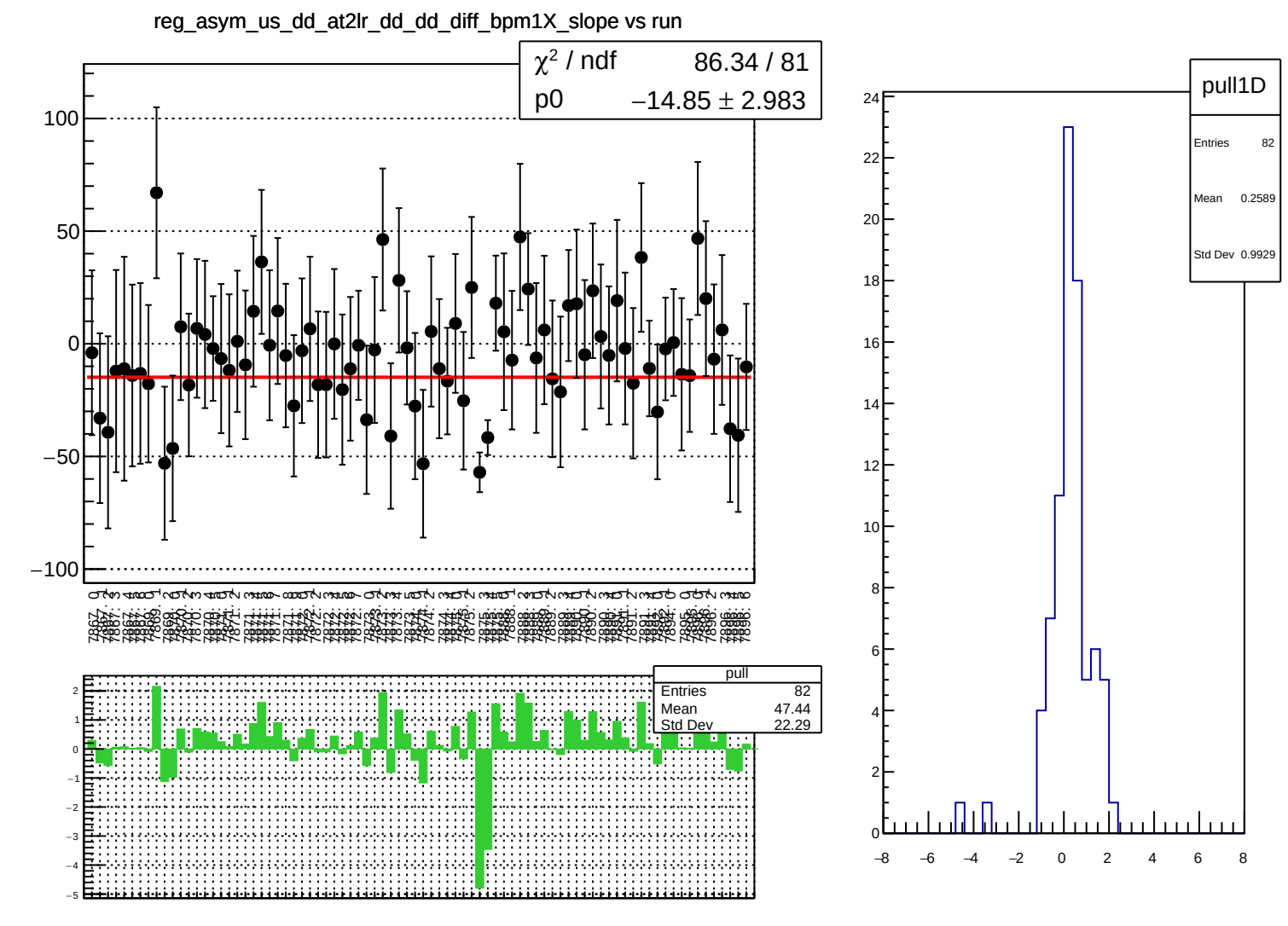

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.16 / 81
p0 −19.11± 7.778
pull
Entries 82
Mean −48.3
Std Dev 0

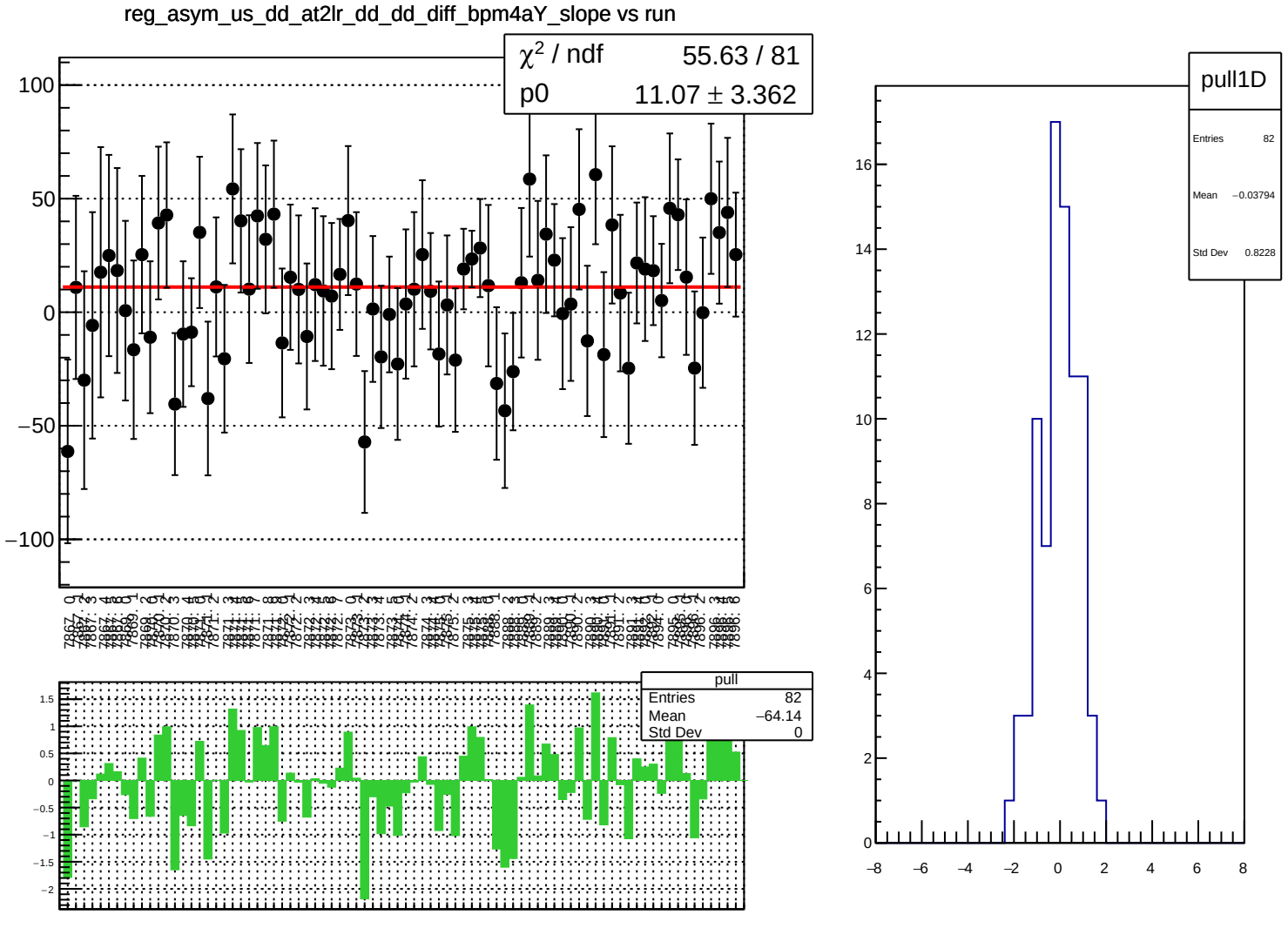

pull1D
Entries 82
Mean 0.0232
Std Dev 0.5075

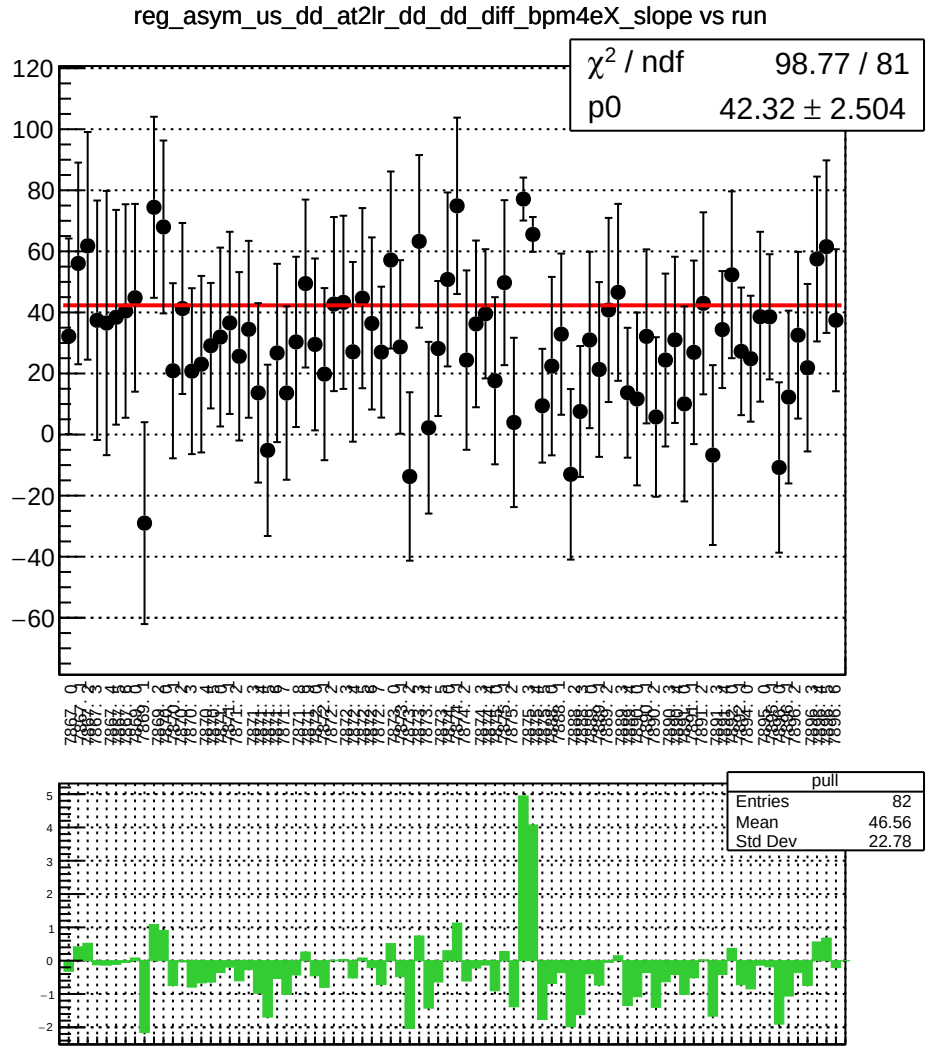

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.26 / 81
p0 −155.5 ± 5.95
pull
Entries 82
Mean 39.12
Std Dev 26.04
pull1D
Entries 82
Mean 0.3338
Std Dev 0.9443

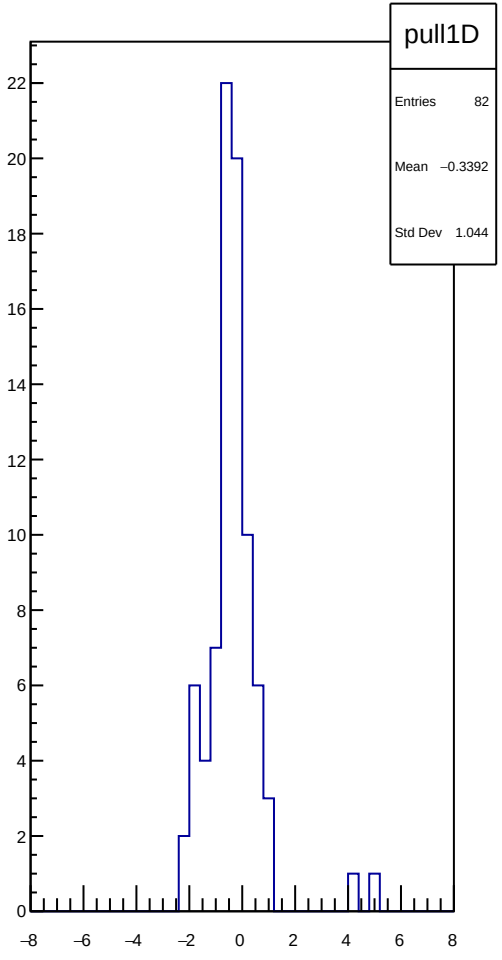

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.51 / 81
p0 33.53 ± 9.022
pull
Entries 82
Mean −49.75
Std Dev 0
pull1D
Entries 82
Mean −0.01429
Std Dev 0.4999

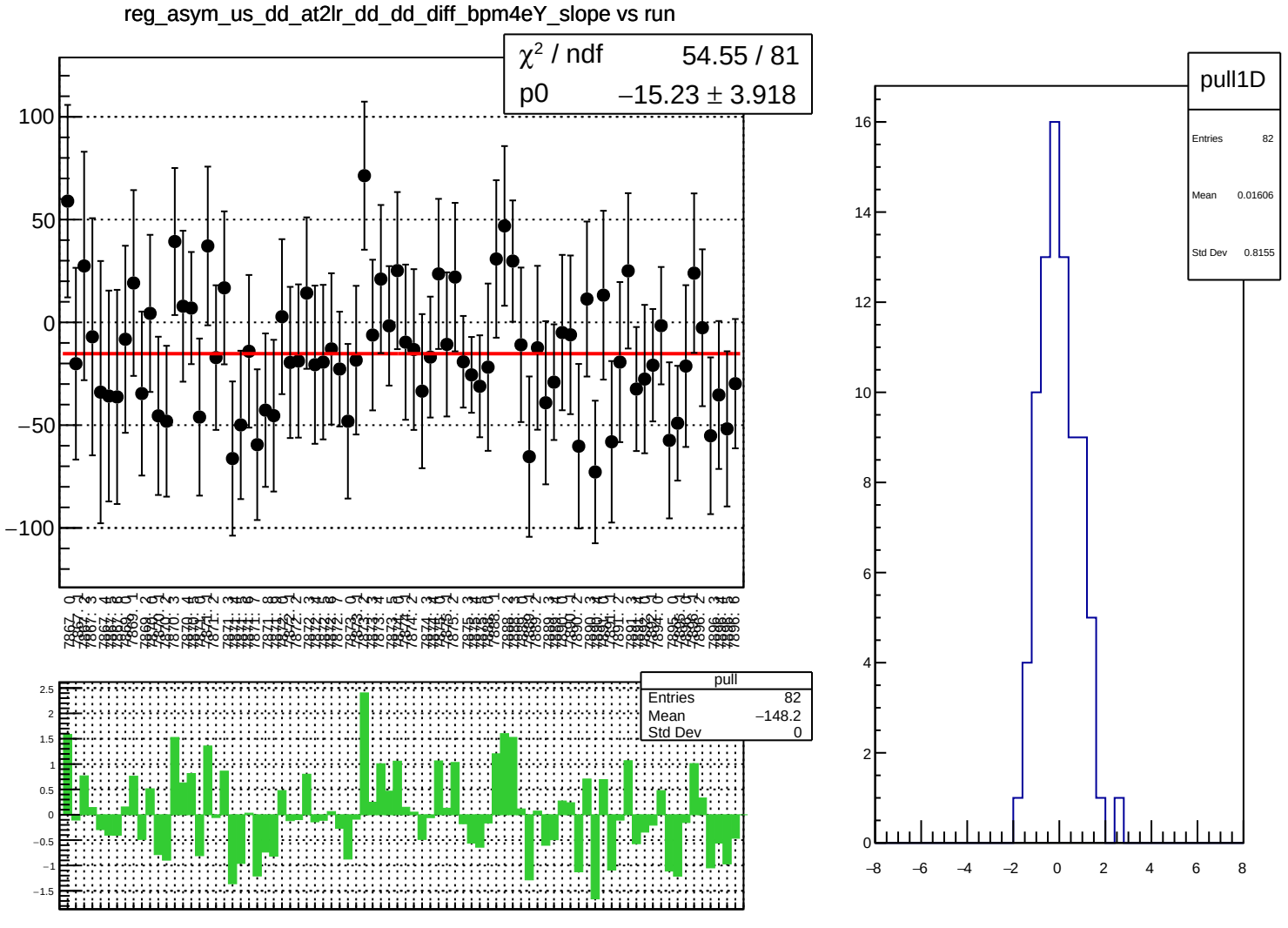

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 29.29 / 81
p0 20.99 ± 0.2833
pull
Entries 82
Mean 661.6
Std Dev 0
pull1D
Entries 82
Mean 0.00674
Std Dev 0.5977

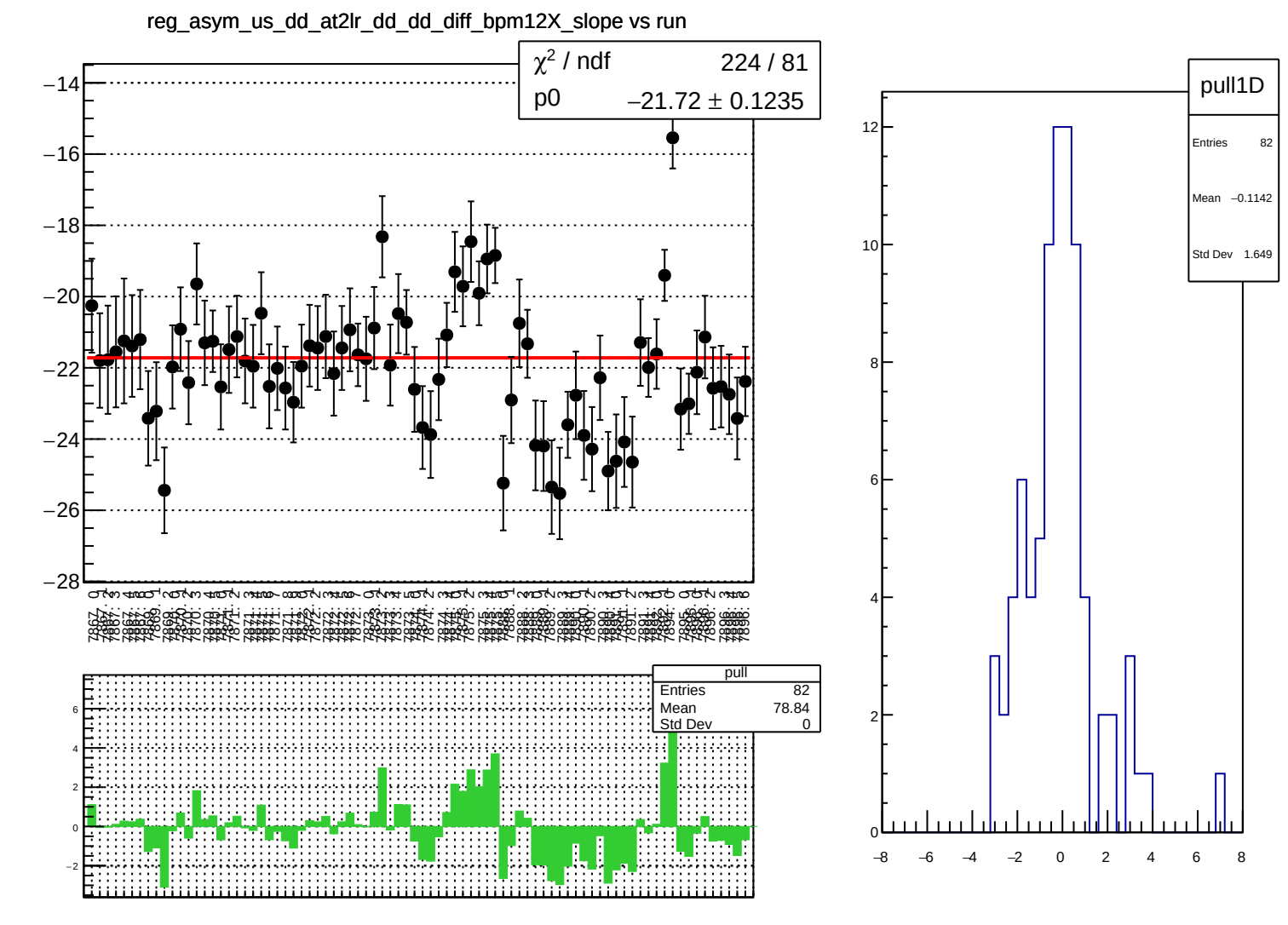

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 86.34 / 81
p0 −14.85 ± 2.983
pull
Entries 82
Mean 47.44
Std Dev 22.29
pull1D
Entries 82
Mean 0.2589
Std Dev 0.9929

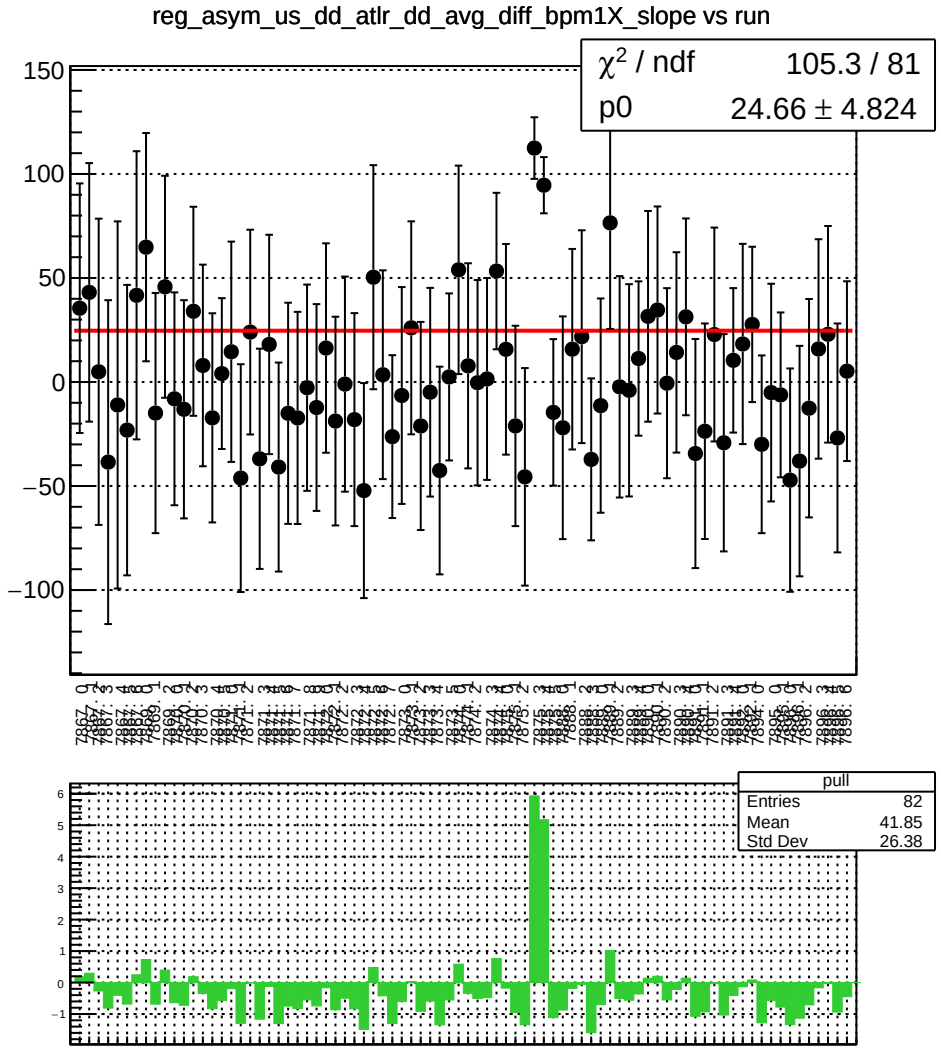

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.63 / 81
p0 11.07 ± 3.362
pull
Entries 82
Mean −64.14
Std Dev 0
pull1D
Entries 82
Mean −0.03794
Std Dev 0.8228

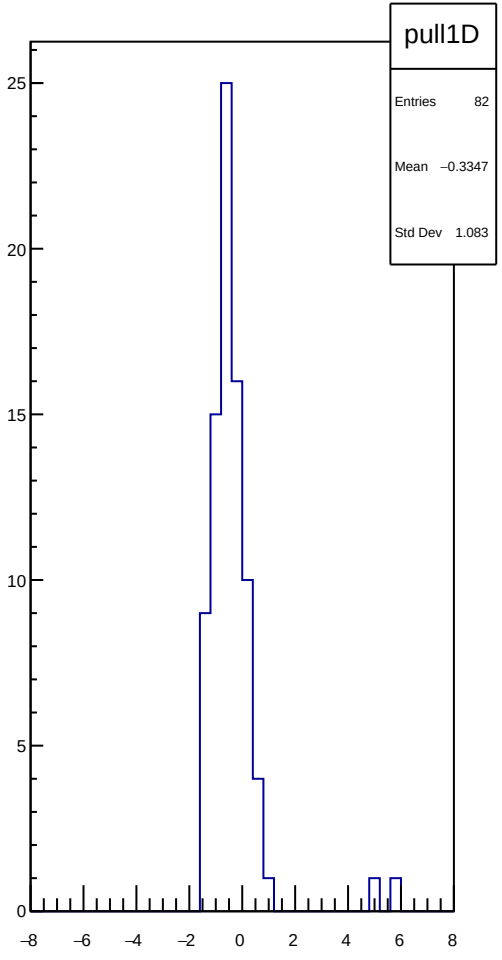

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.77 / 81
p0 42.32 ± 2.504
pull
Entries 82
Mean 46.56
Std Dev 22.78

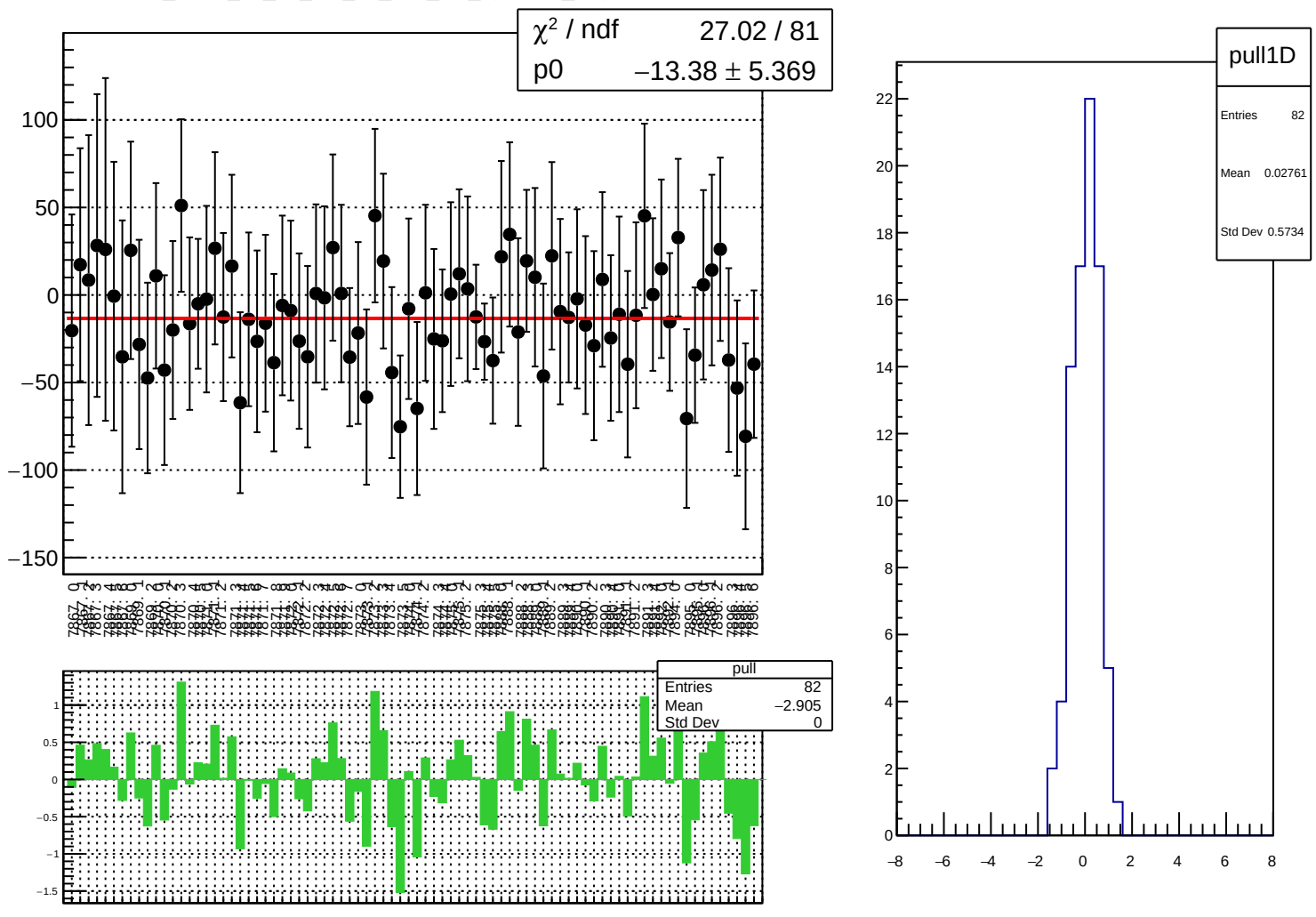

pull1D
Entries 82
Mean −0.3392
Std Dev 1.044

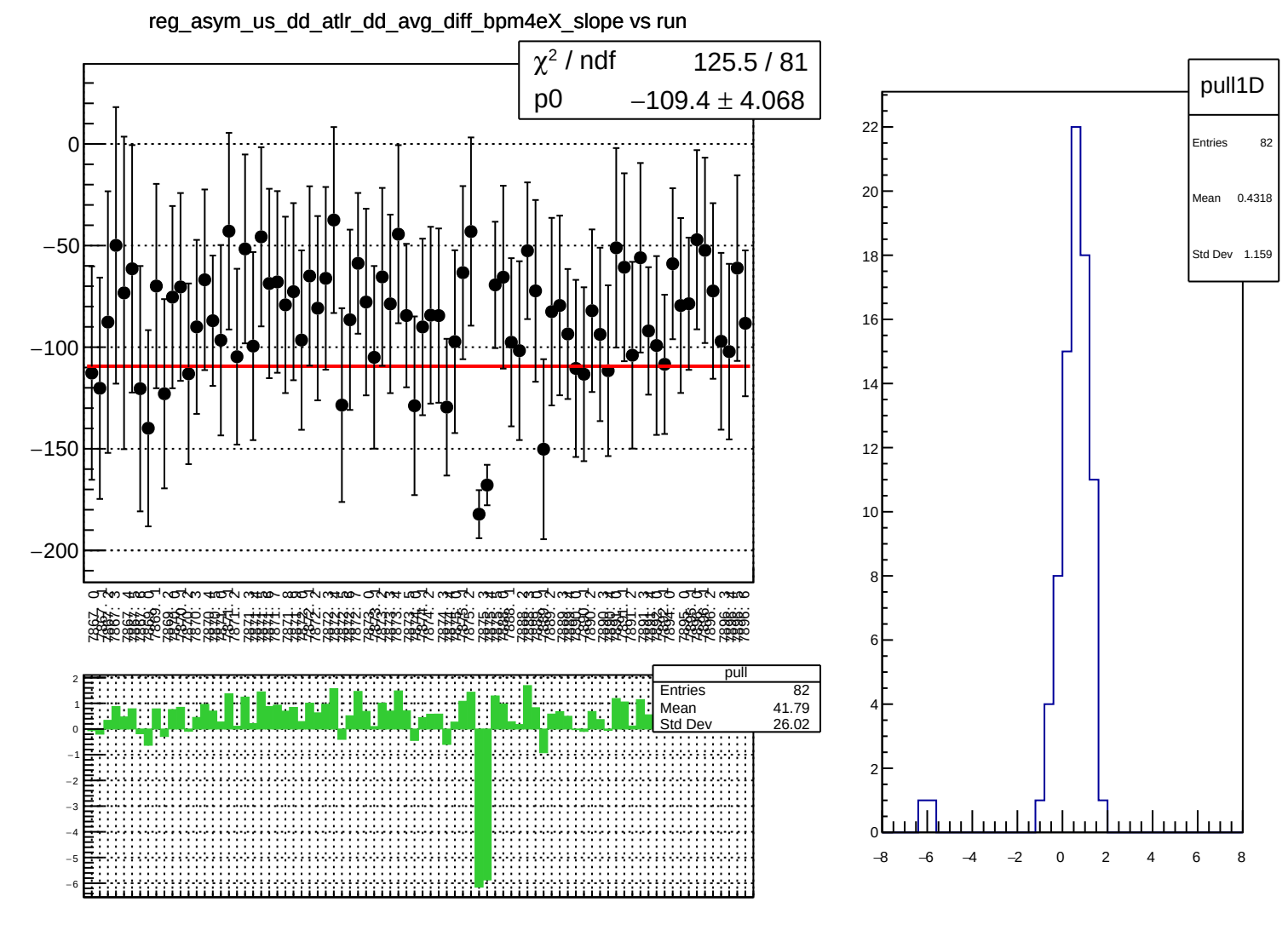

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.55 / 81
p0 −15.23 ± 3.918
pull
Entries 82
Mean −148.2
Std Dev 0
pull1D
Entries 82
Mean 0.01606
Std Dev 0.8155

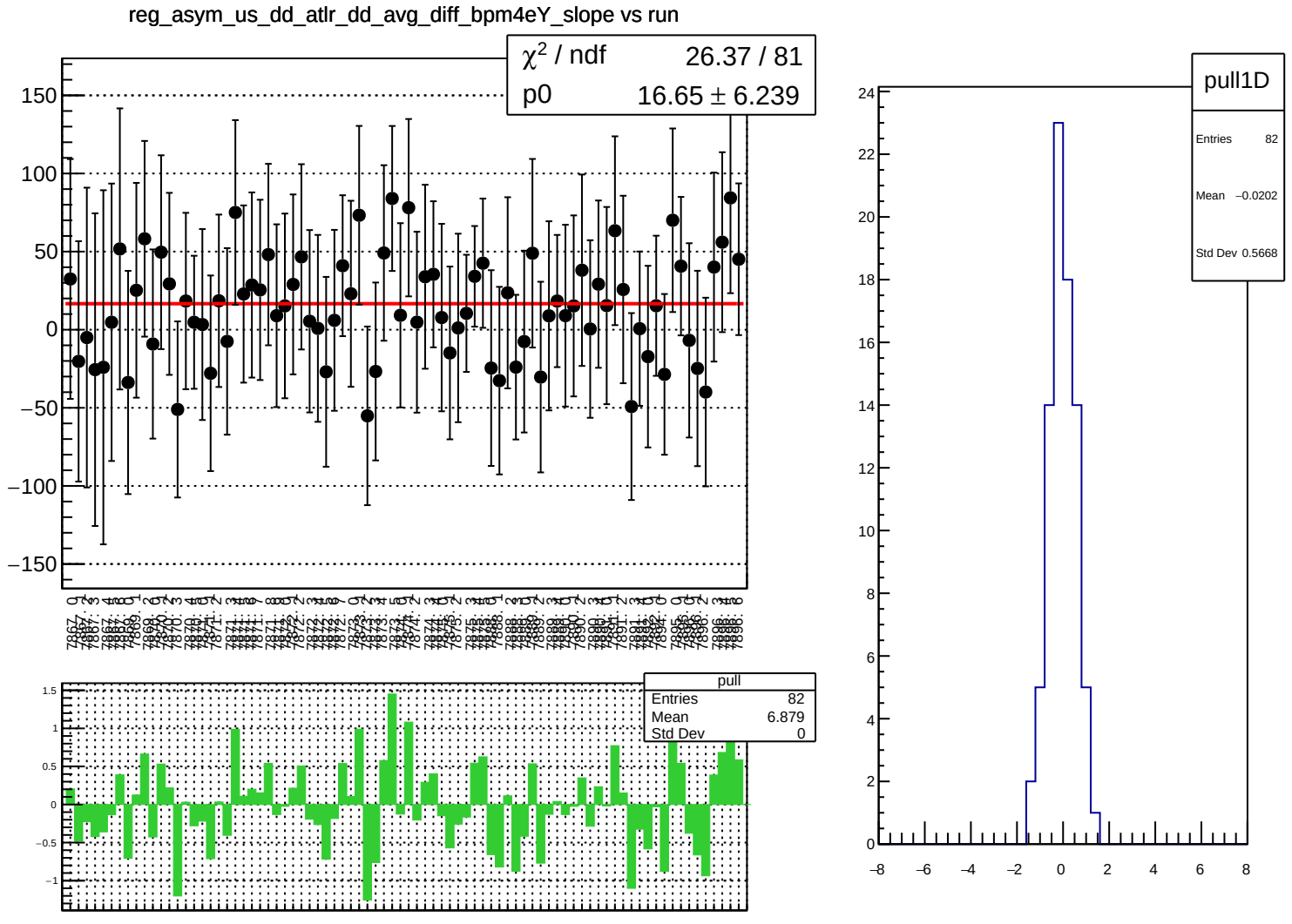

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 224 / 81
p0 −21.72 ± 0.1235
pull
Entries 82
Mean 78.84
Std Dev 0
pull1D
Entries 82
Mean −0.1142
Std Dev 1.649

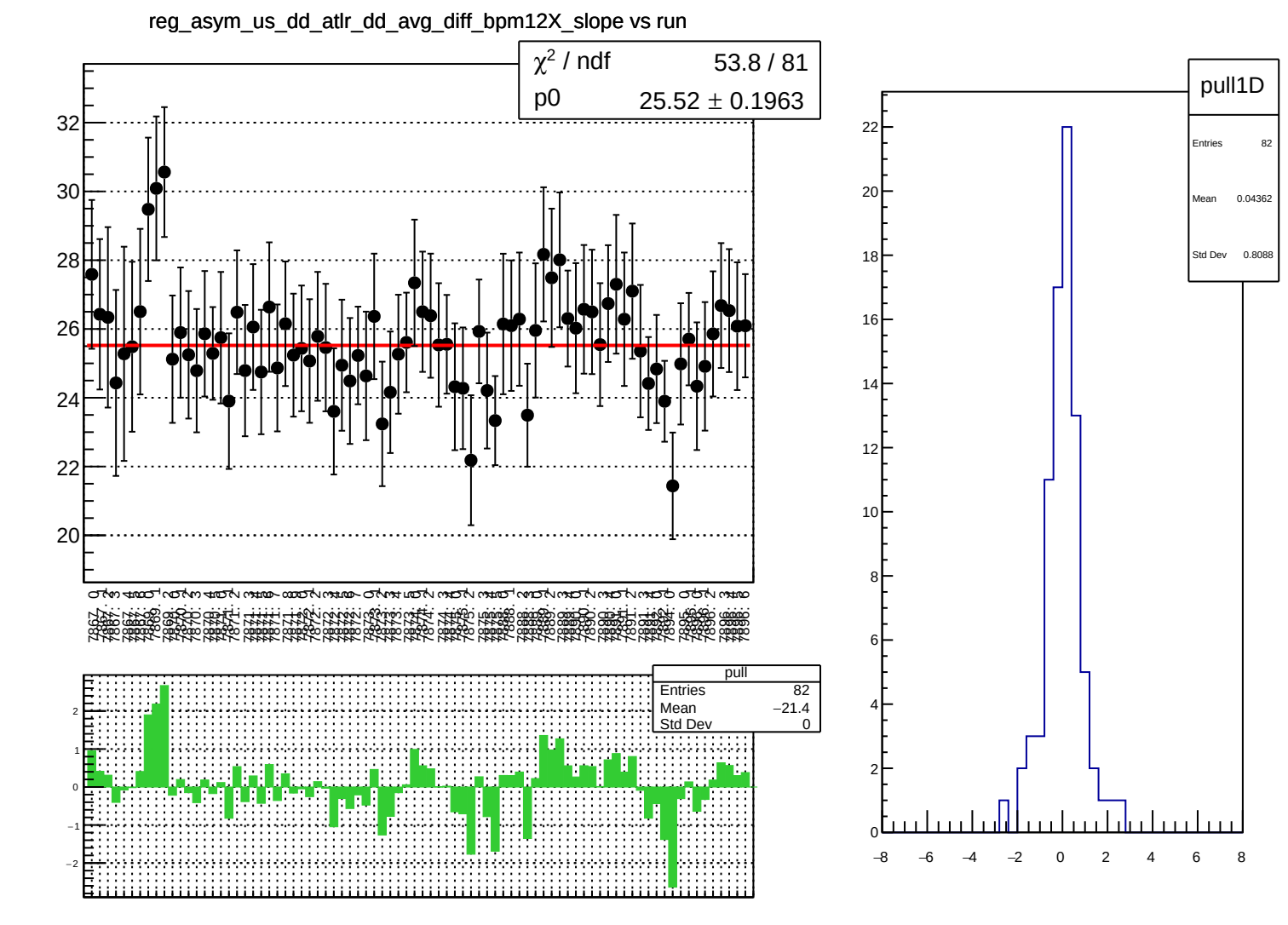

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 105.3 / 81
p0 24.66 ± 4.824
150
100
50
0
−50
−100
pull
Entries 82
Mean 41.85
Std Dev 26.38
6
5
4
3
2
1
0
−1

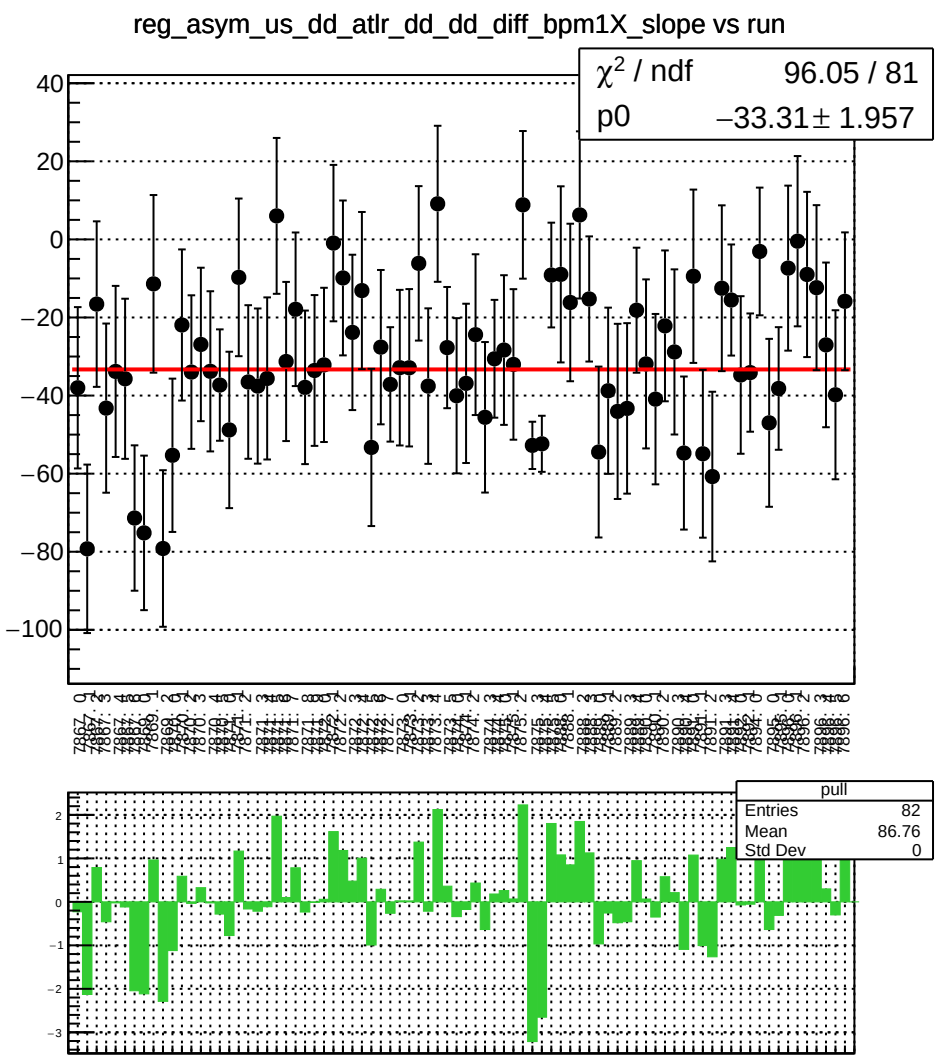

pull1D
Entries 82
Mean −0.3347
Std Dev 1.083
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

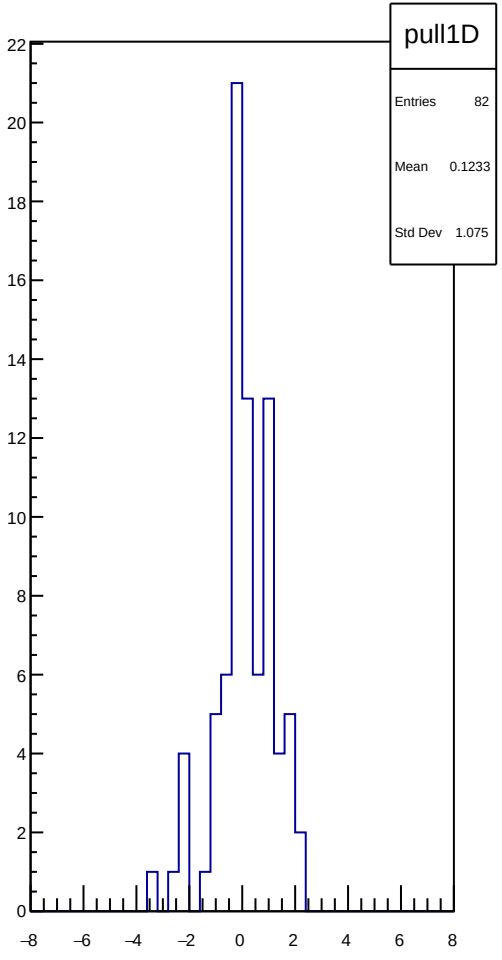

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.02 / 81
p0 −13.38 ± 5.369
pull
Entries 82
Mean −2.905
Std Dev 0
pull1D
Entries 82
Mean 0.02761
Std Dev 0.5734

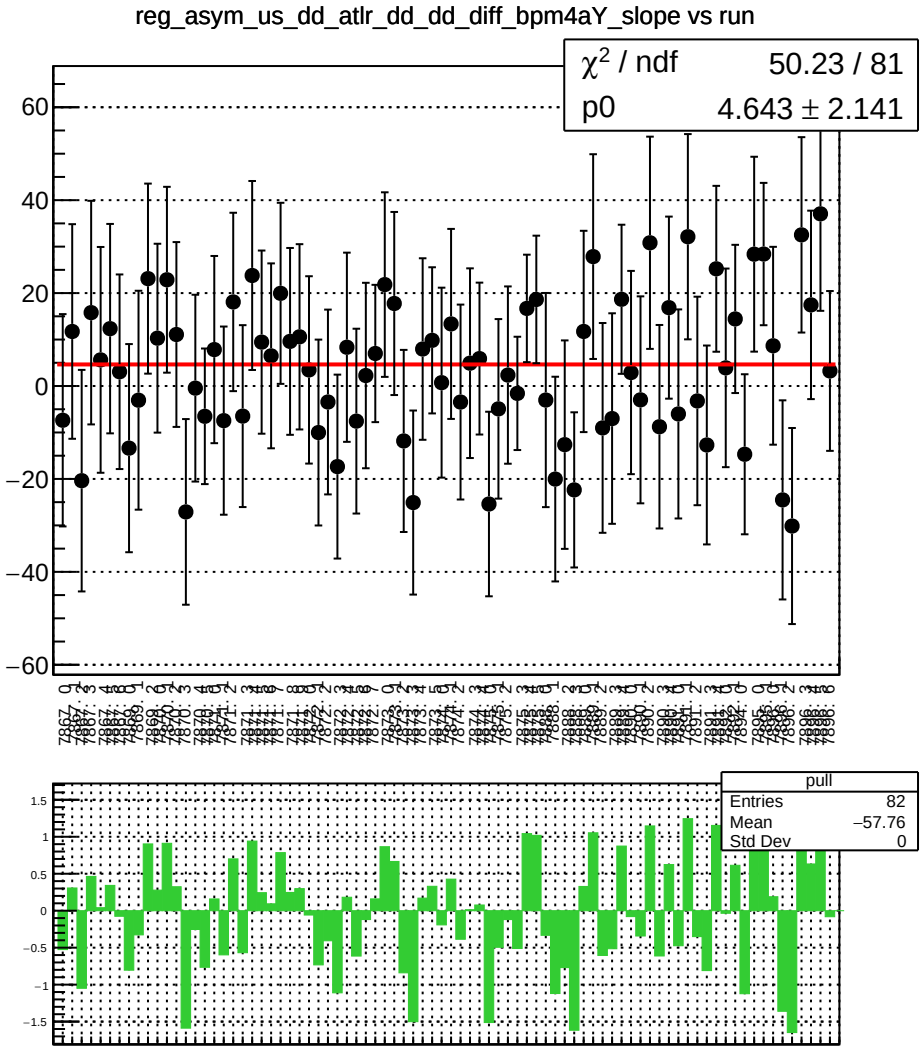

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 125.5 / 81
p0 −109.4 ± 4.068
pull
Entries 82
Mean 41.79
Std Dev 26.02
pull1D
Entries 82
Mean 0.4318
Std Dev 1.159

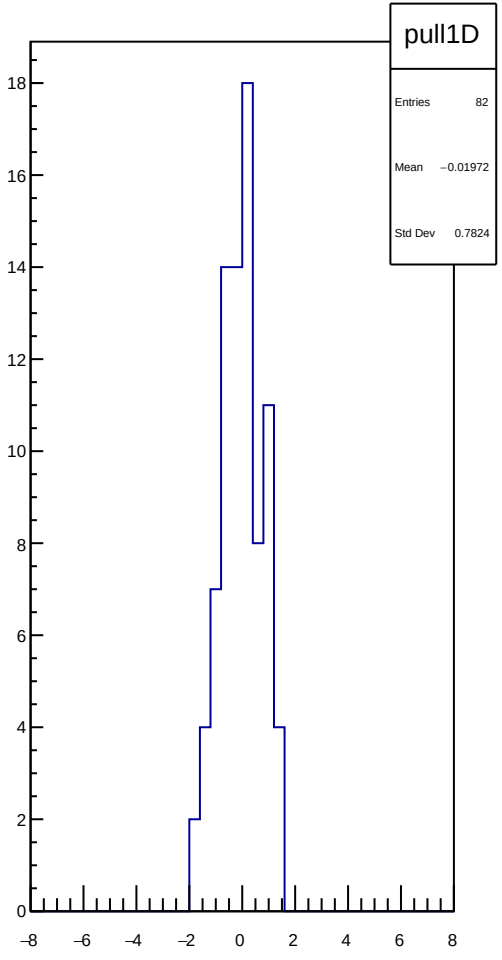

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.37 / 81
p0 16.65 ± 6.239
pull
Entries 82
Mean 6.879
Std Dev 0
pull1D
Entries 82
Mean −0.0202
Std Dev 0.5668

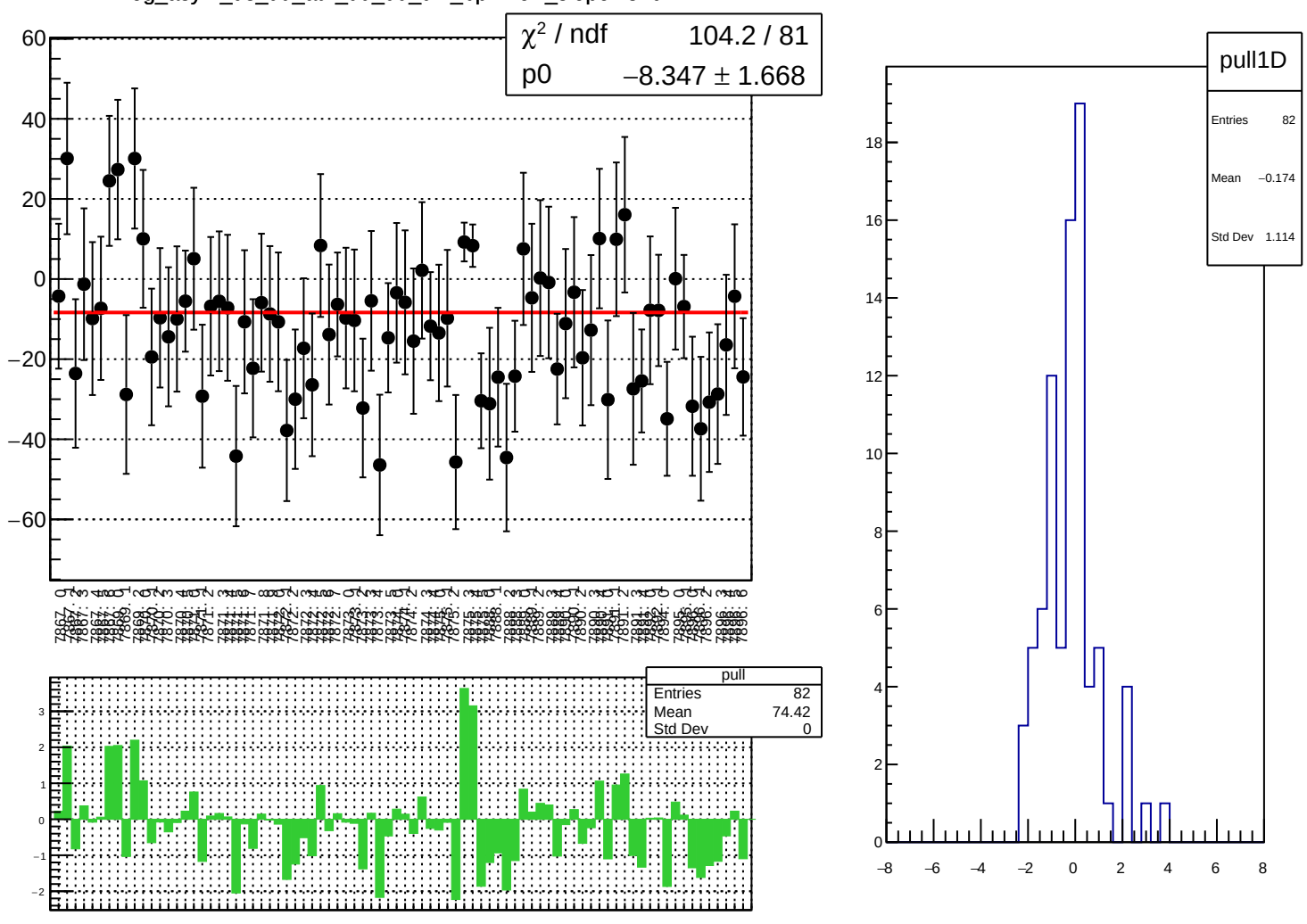

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 53.8 / 81
p0 25.52 ± 0.1963
pull
Entries 82
Mean −21.4
Std Dev 0
pull1D
Entries 82
Mean 0.04362
Std Dev 0.8088

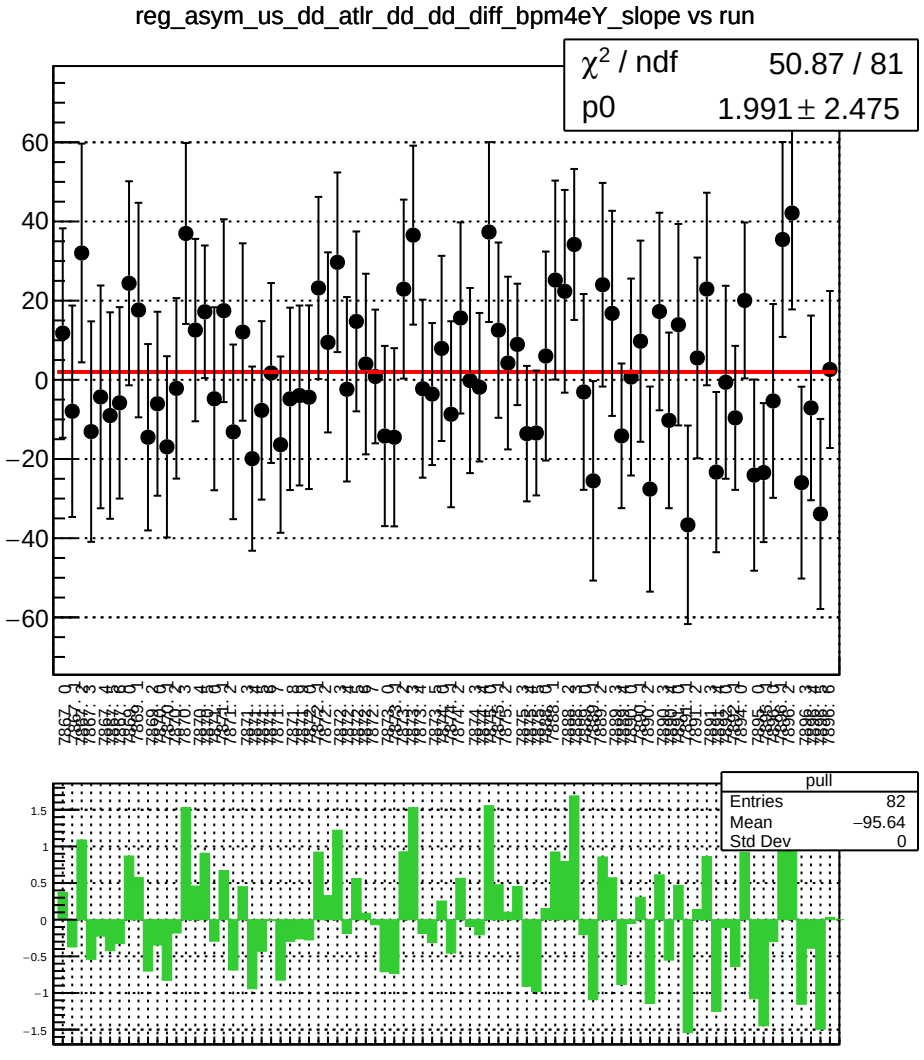

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 96.05 / 81
p0 −33.31 ± 1.957
pull
Entries 82
Mean 86.76
Std Dev 0

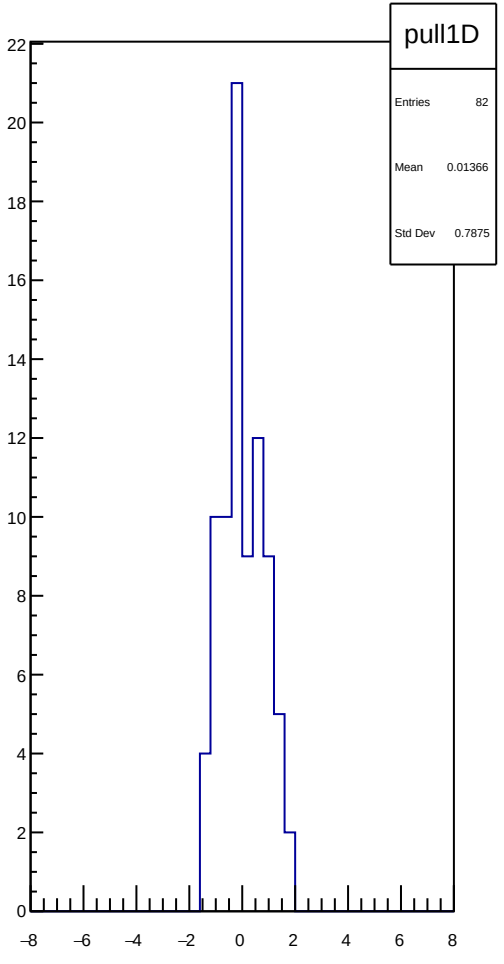

pull1D
Entries 82
Mean 0.1233
Std Dev 1.075

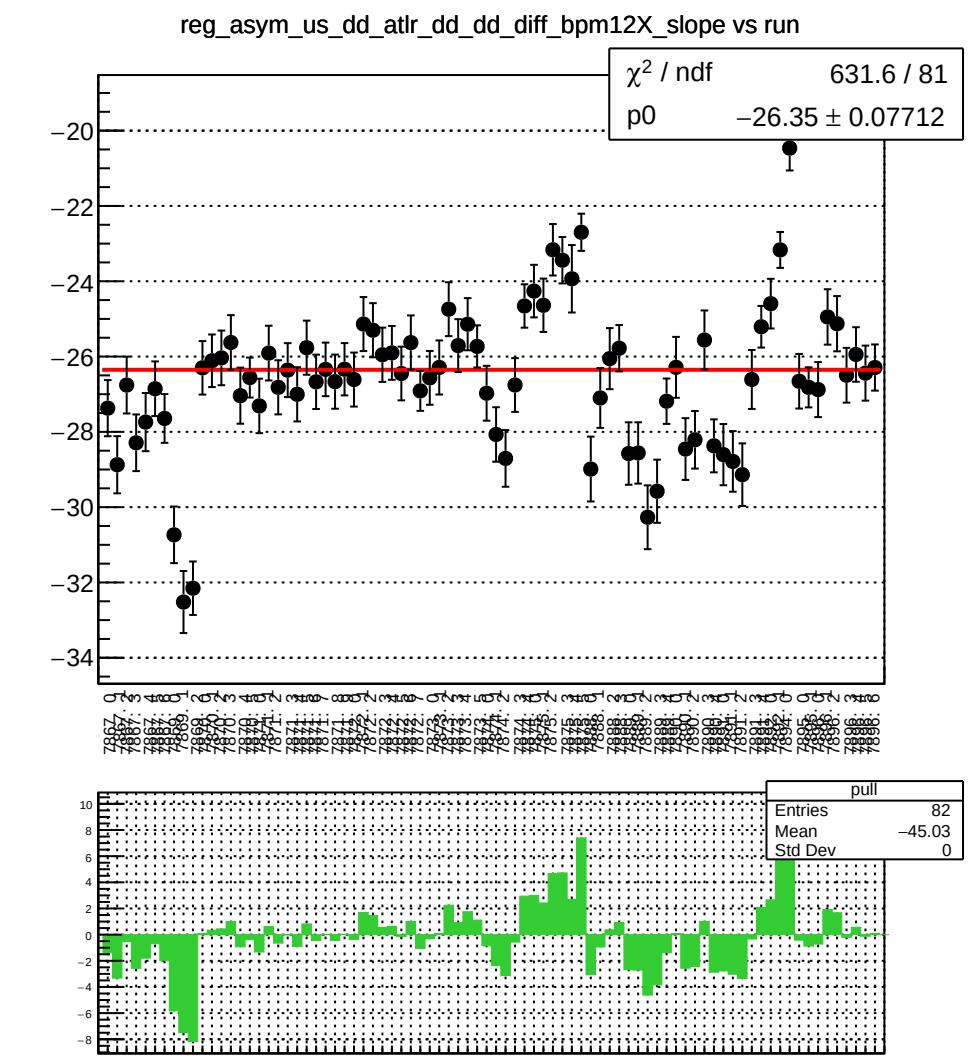

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.23 / 81
p0 4.643 ± 2.141
pull
Entries 82
Mean −57.76
Std Dev 0

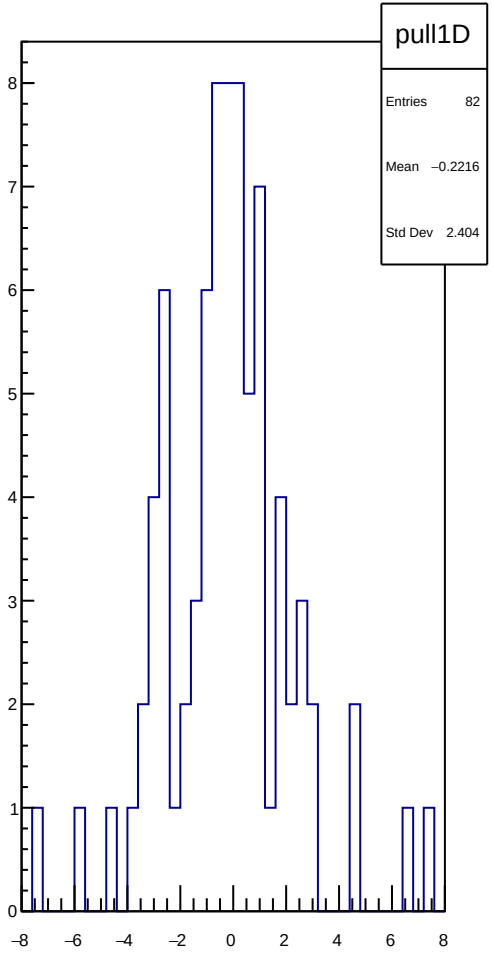

pull1D
Entries 82
Mean −0.01972
Std Dev 0.7824

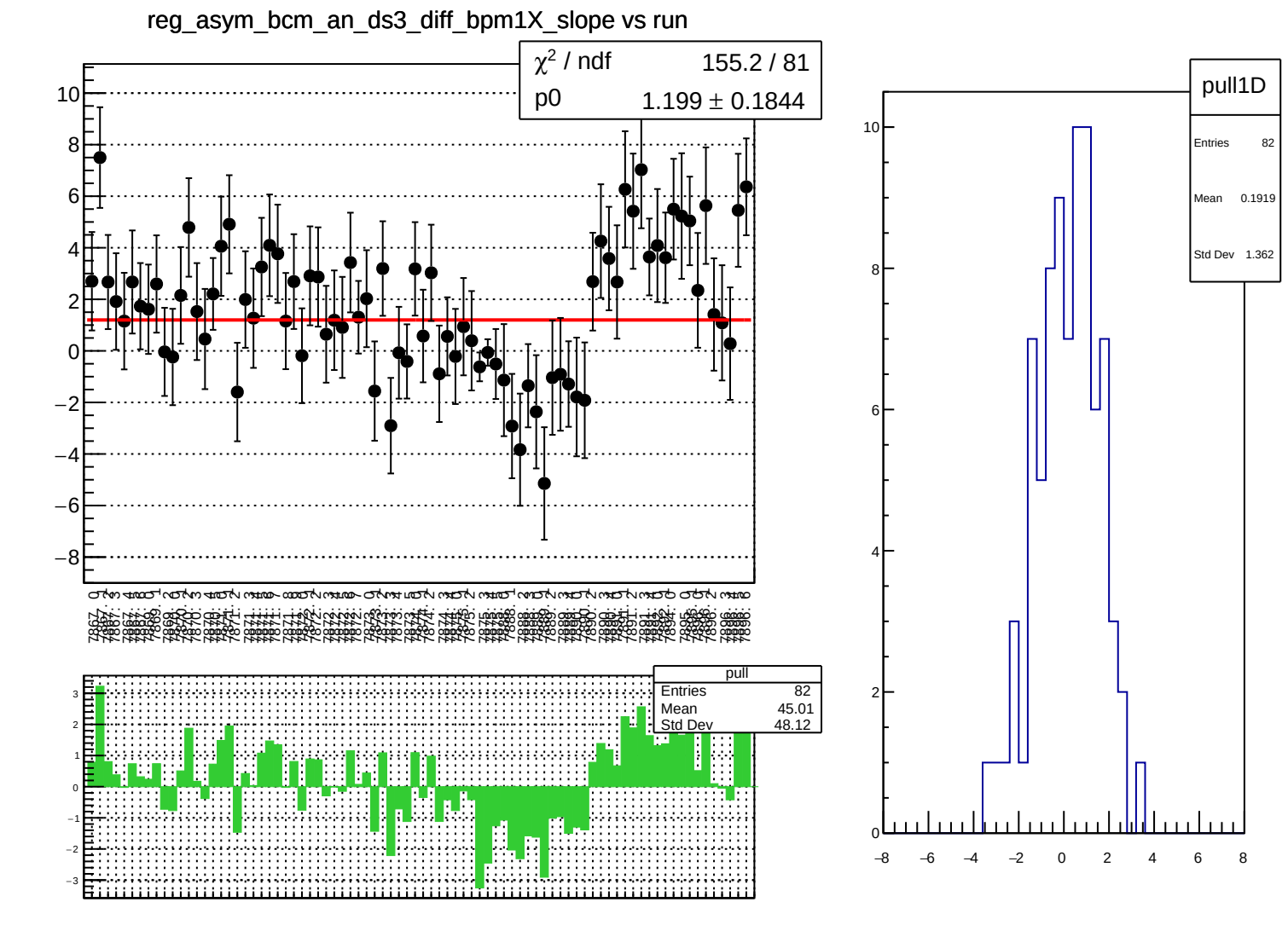

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 104.2 / 81
p0 −8.347 ± 1.668
pull
Entries 82
Mean 74.42
Std Dev 0
pull1D
Entries 82
Mean −0.174
Std Dev 1.114

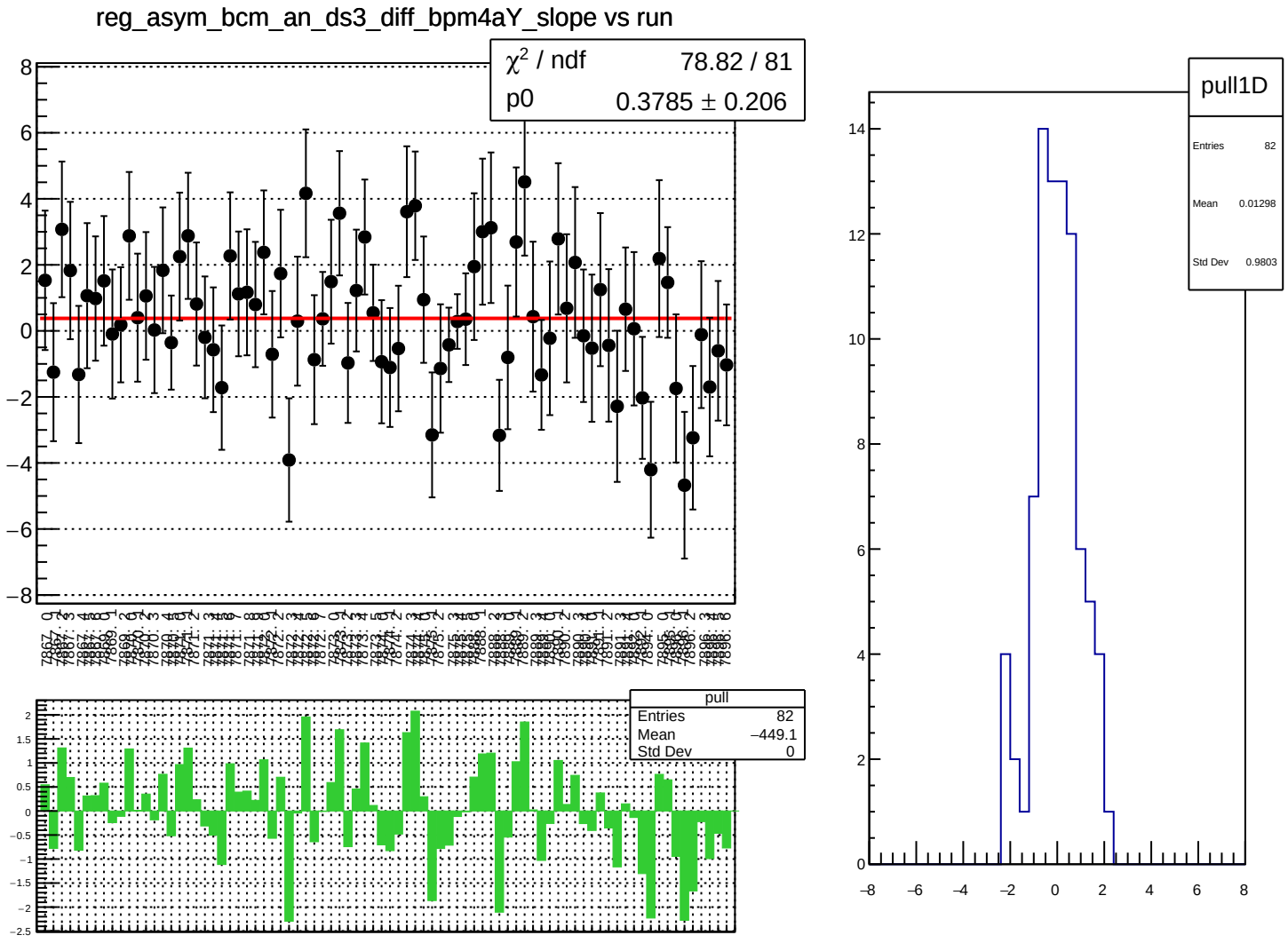

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.87 / 81
p0 1.991 ± 2.475
pull
Entries 82
Mean −95.64
Std Dev 0

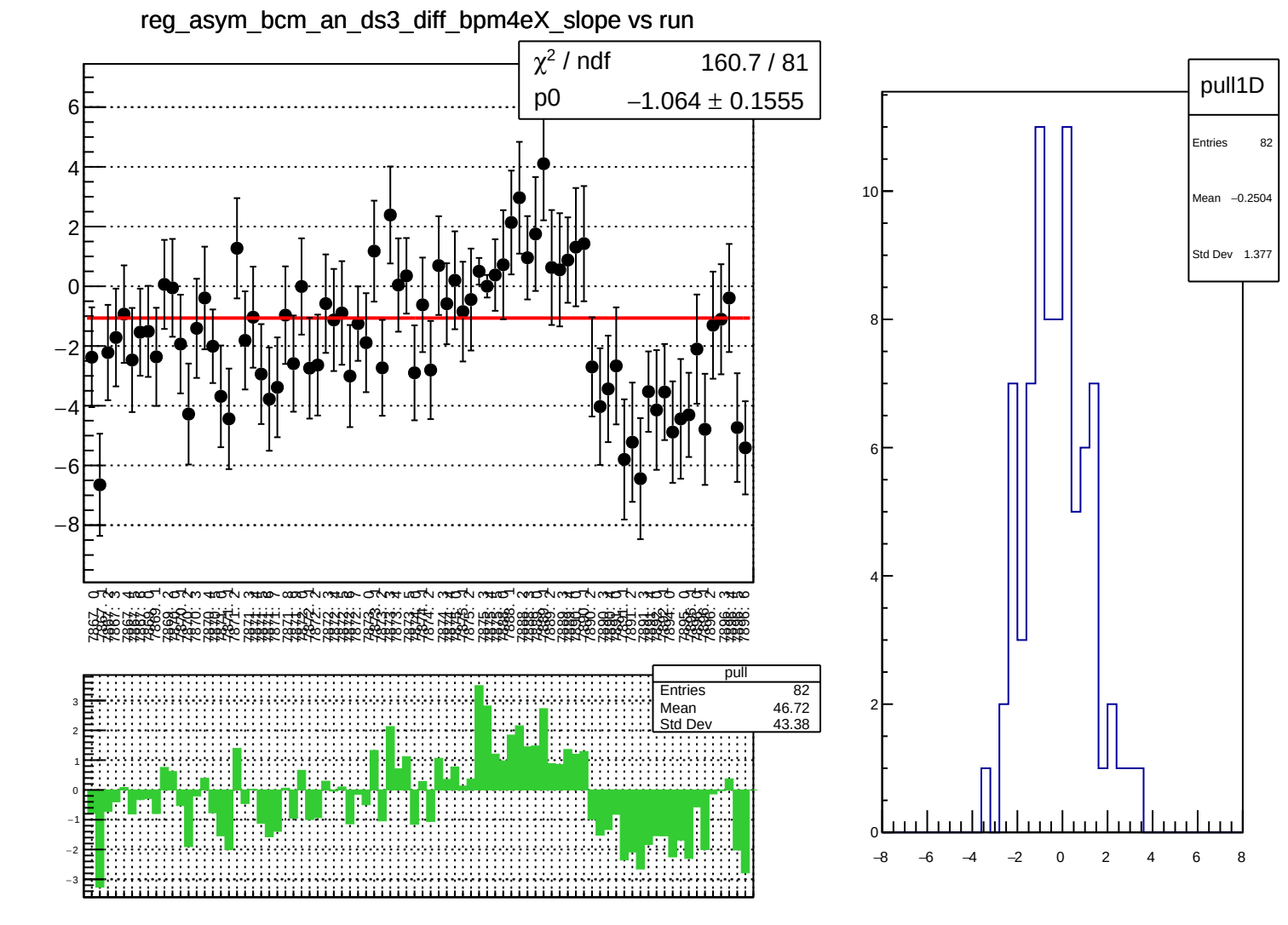

pull1D
Entries 82
Mean 0.01366
Std Dev 0.7875

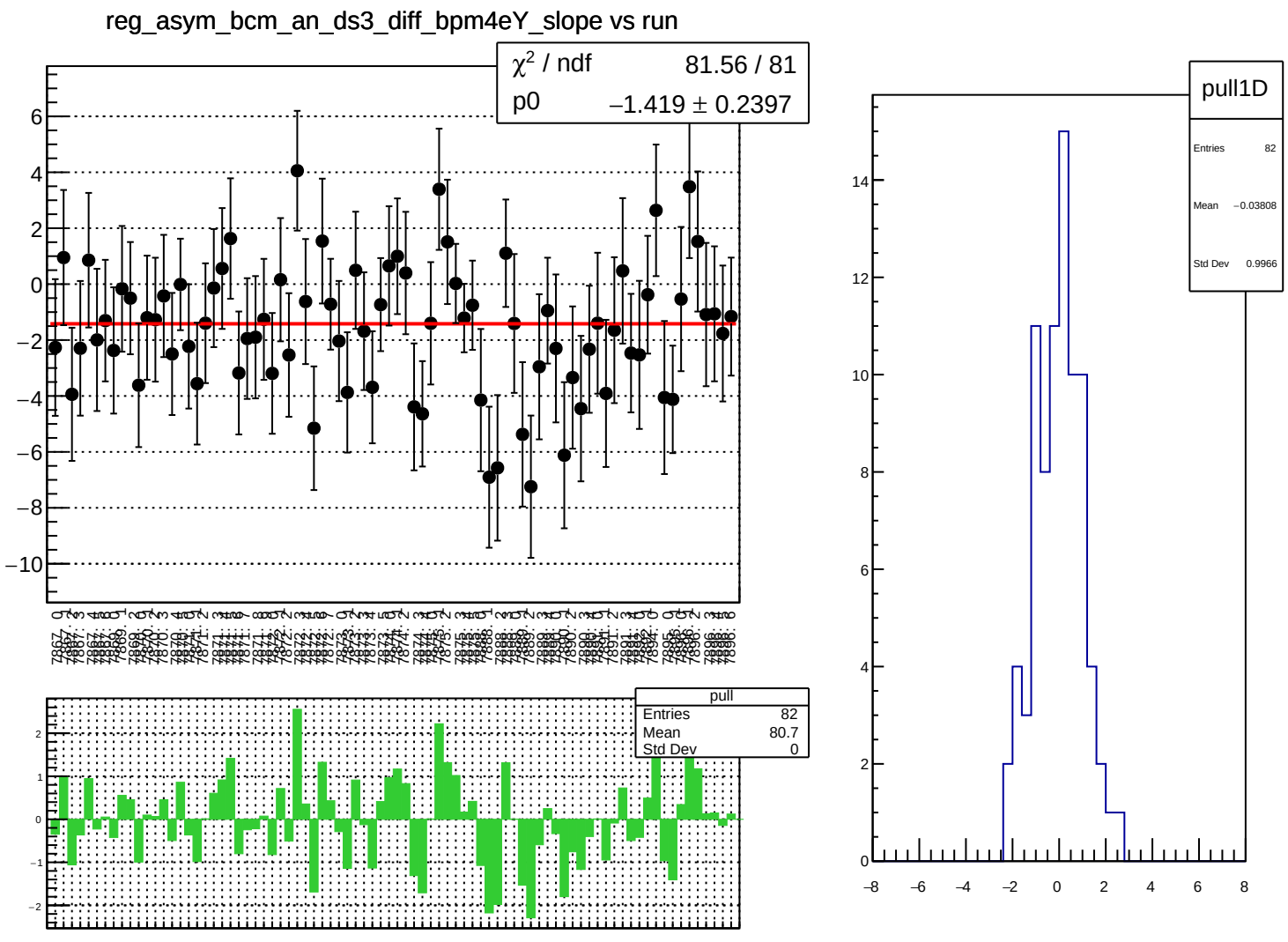

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 631.6 / 81
p0 −26.35 ± 0.07712
pull
Entries 82
Mean −45.03
Std Dev 0

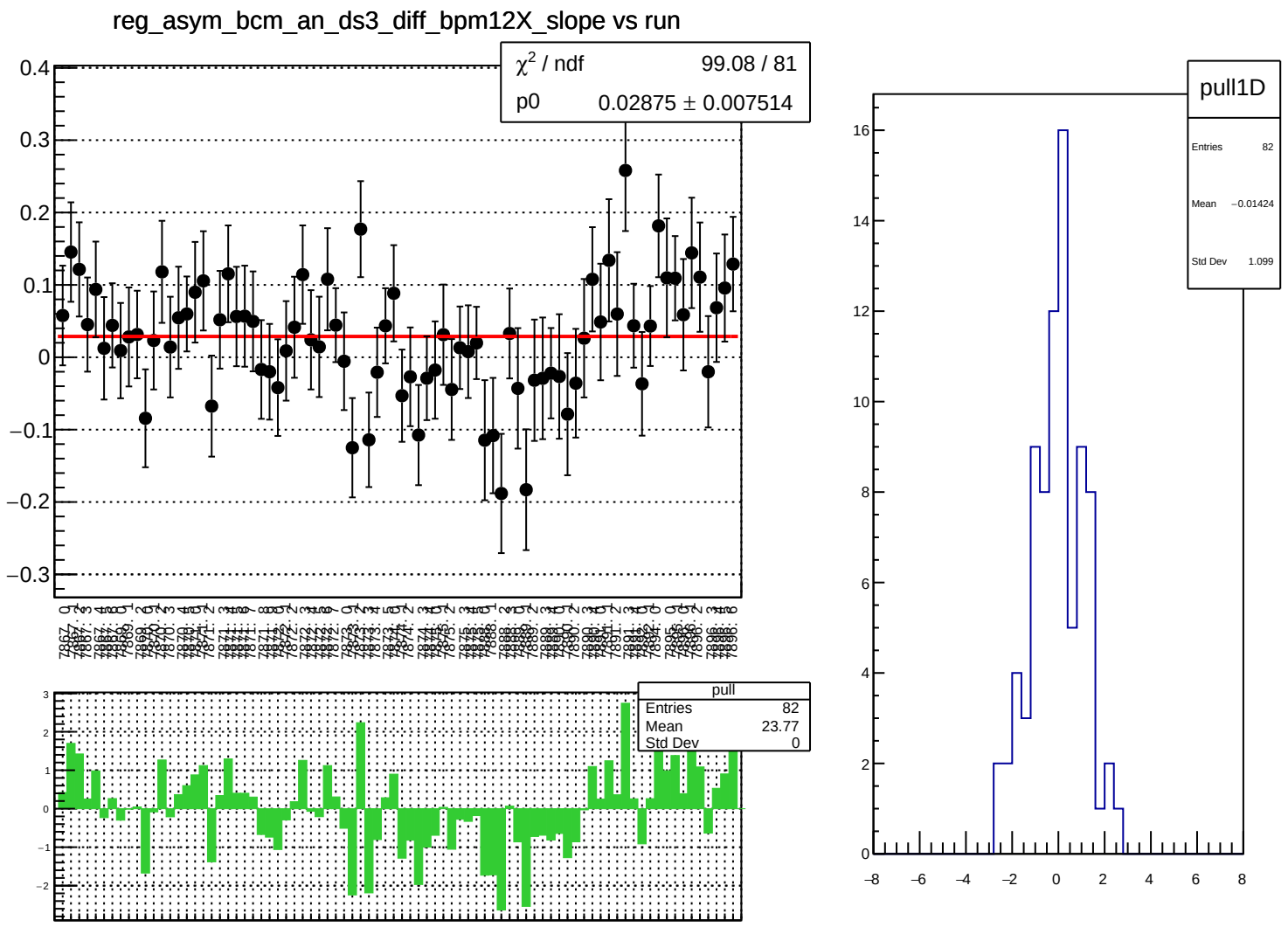

pull1D
Entries 82
Mean −0.2216
Std Dev 2.404

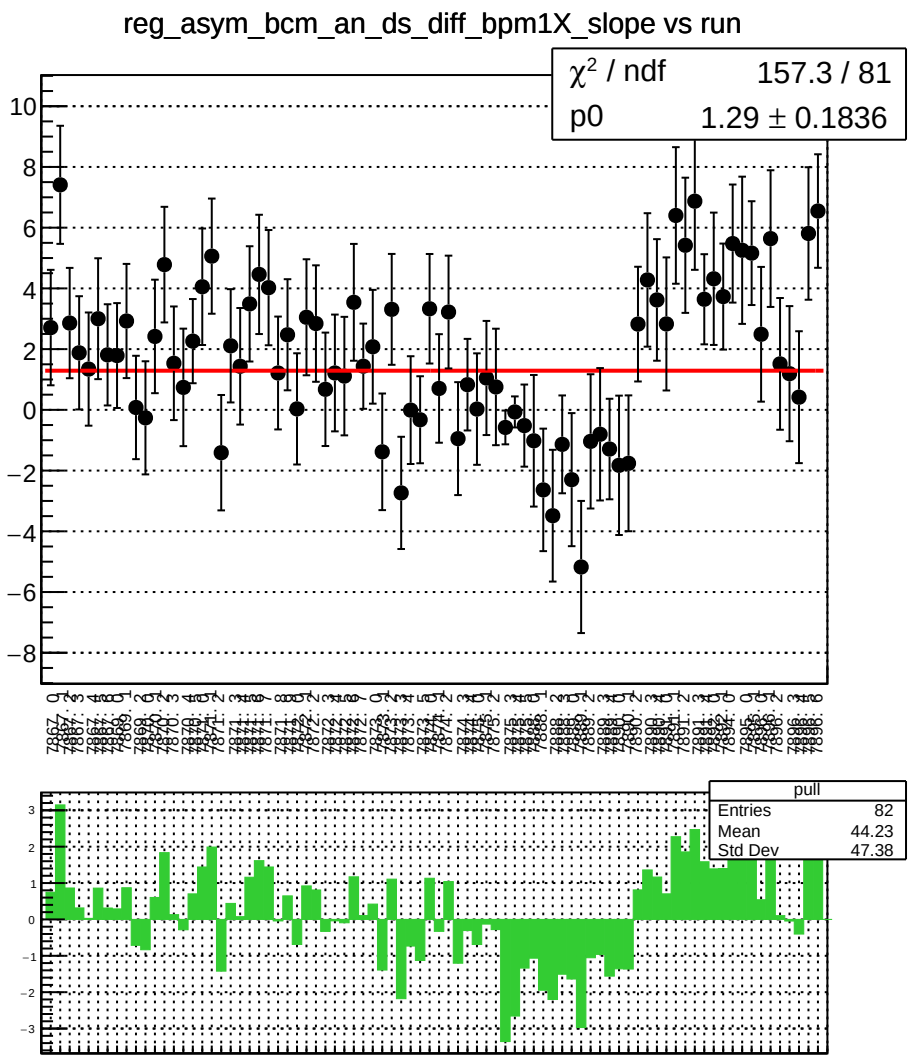

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 155.2 / 81
p0 1.199 ± 0.1844
pull
Entries 82
Mean 45.01
Std Dev 48.12
pull1D
Entries 82
Mean 0.1919
Std Dev 1.362

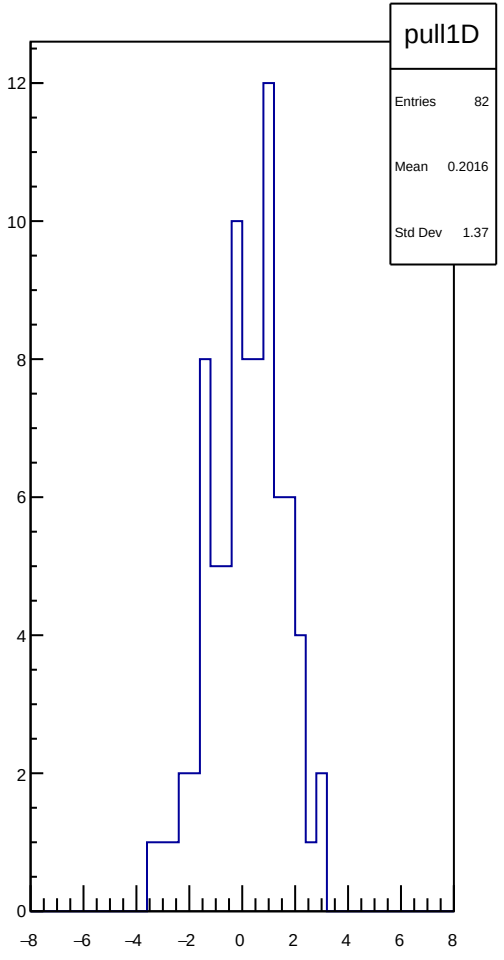

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 78.82 / 81
p0 0.3785 ± 0.206
pull
Entries 82
Mean −449.1
Std Dev 0
pull1D
Entries 82
Mean 0.01298
Std Dev 0.9803

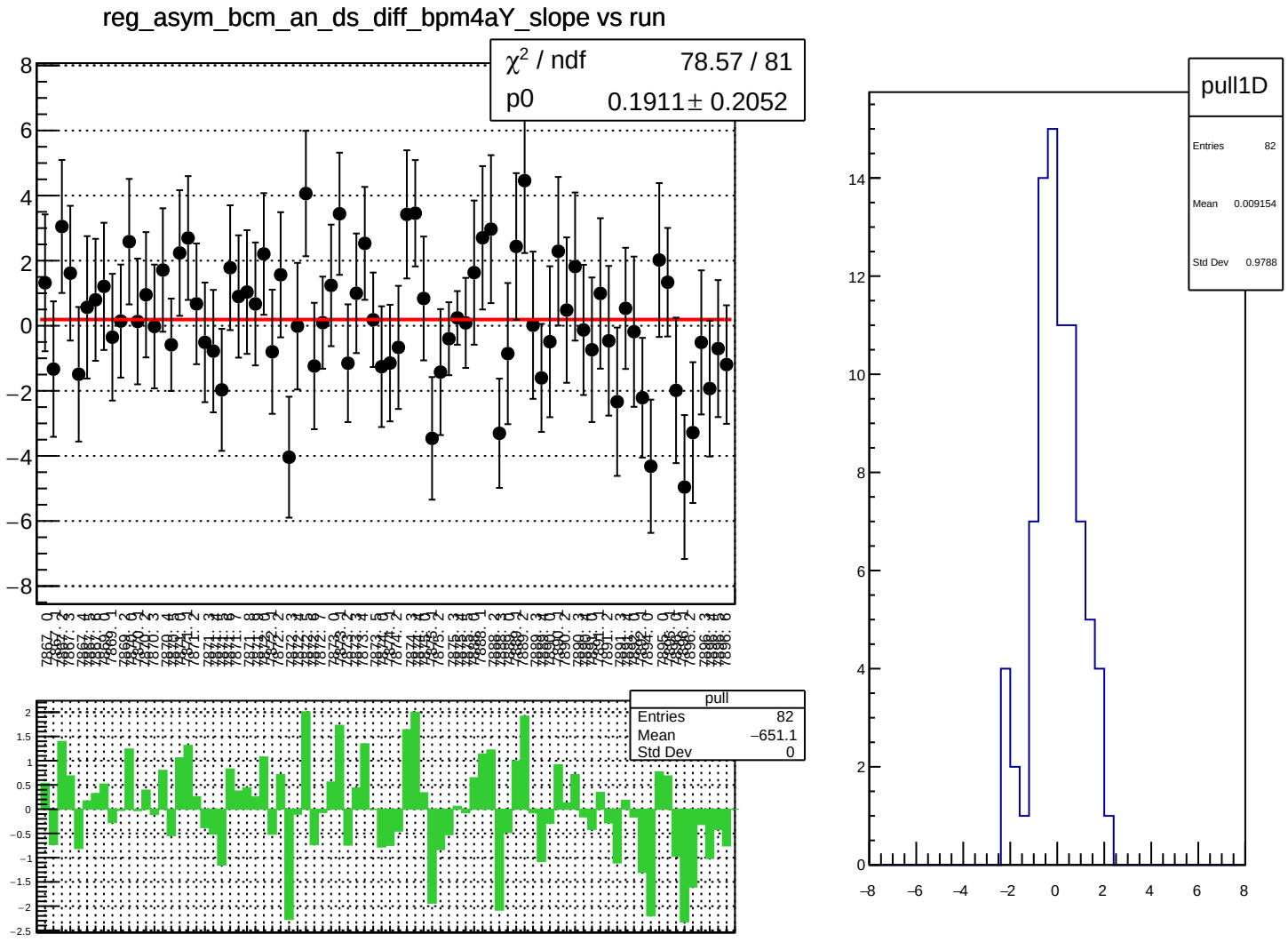

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 160.7 / 81
p0 −1.064 ± 0.1555
pull
Entries 82
Mean 46.72
Std Dev 43.38
pull1D
Entries 82
Mean −0.2504
Std Dev 1.377

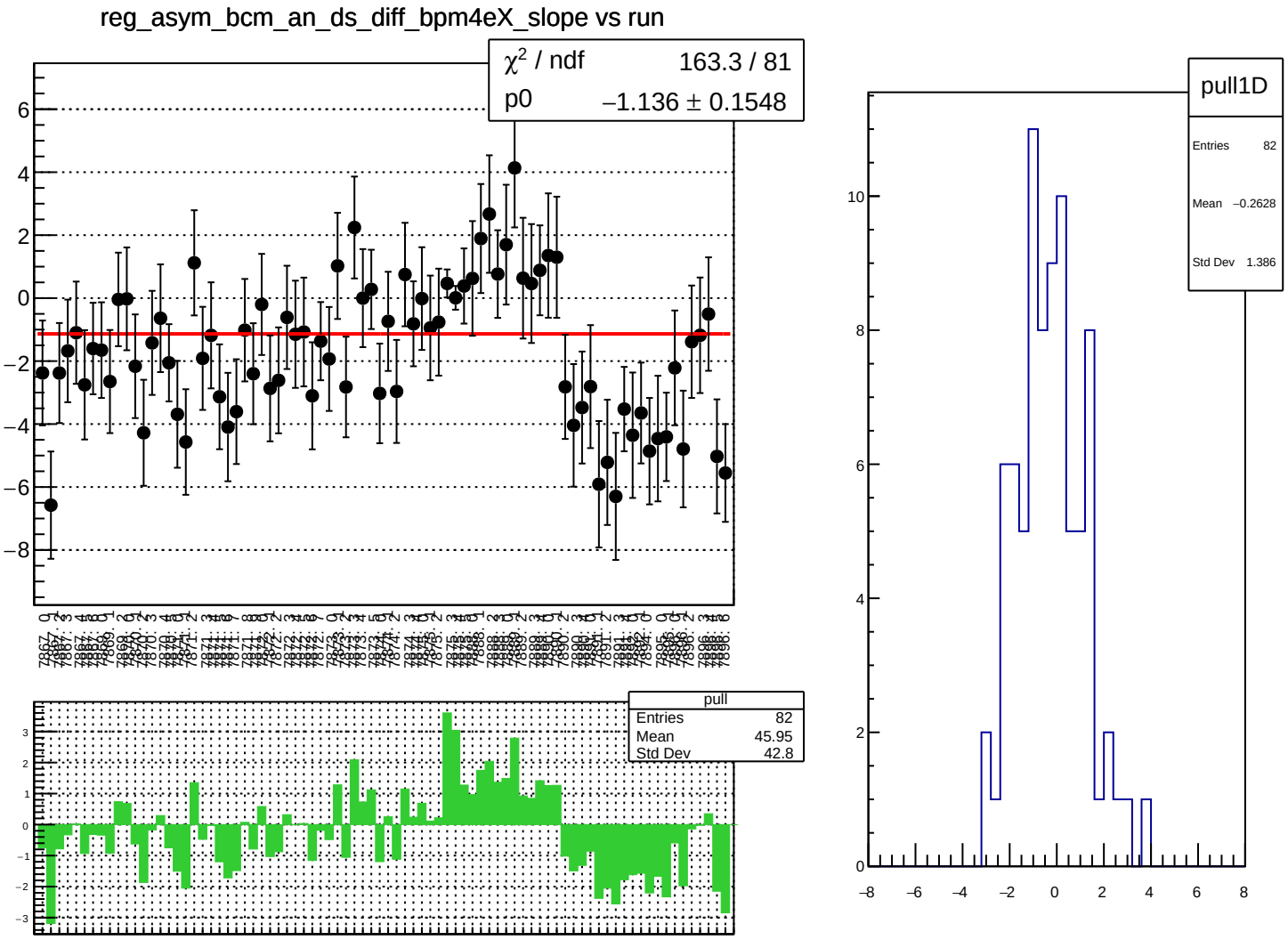

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 81.56 / 81
p0 −1.419 ± 0.2397
pull
Entries 82
Mean 80.7
Std Dev 0
pull1D
Entries 82
Mean −0.03808
Std Dev 0.9966

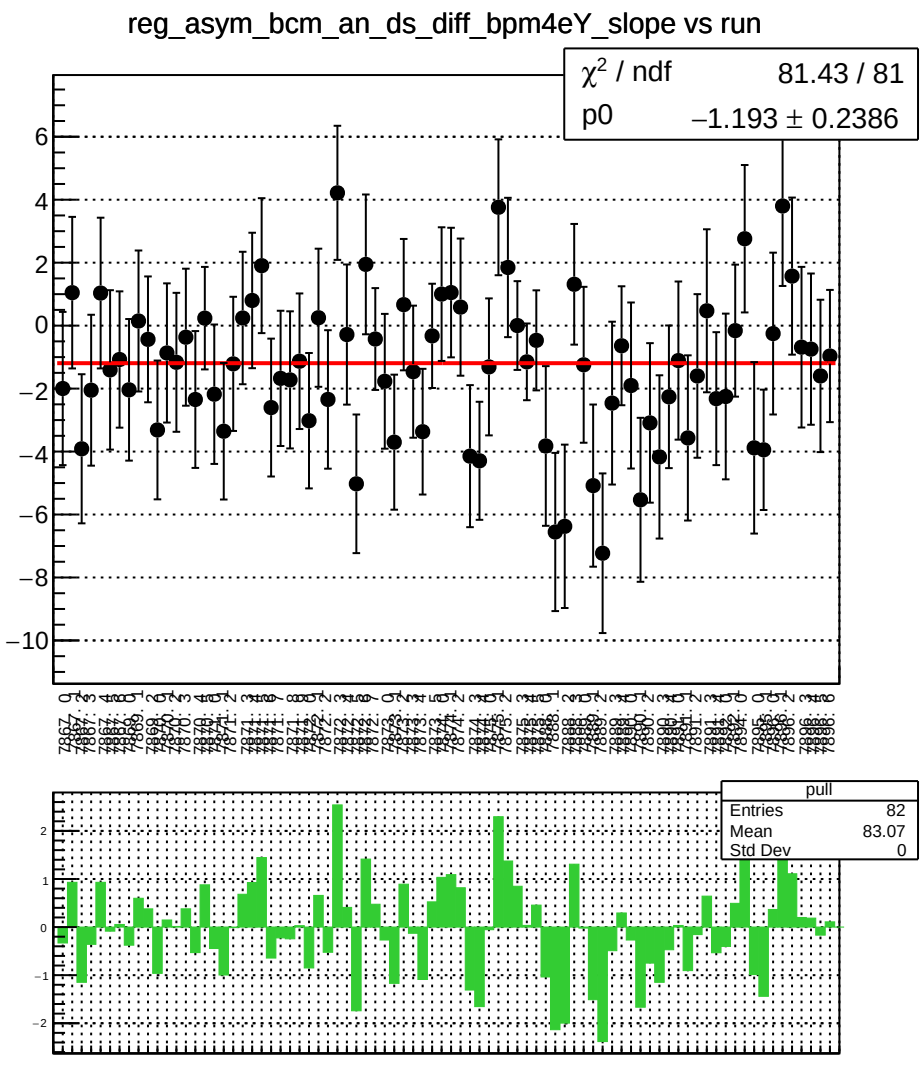

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 99.08 / 81
p0 0.02875 ± 0.007514
pull
Entries 82
Mean 23.77
Std Dev 0
pull1D
Entries 82
Mean −0.01424
Std Dev 1.099

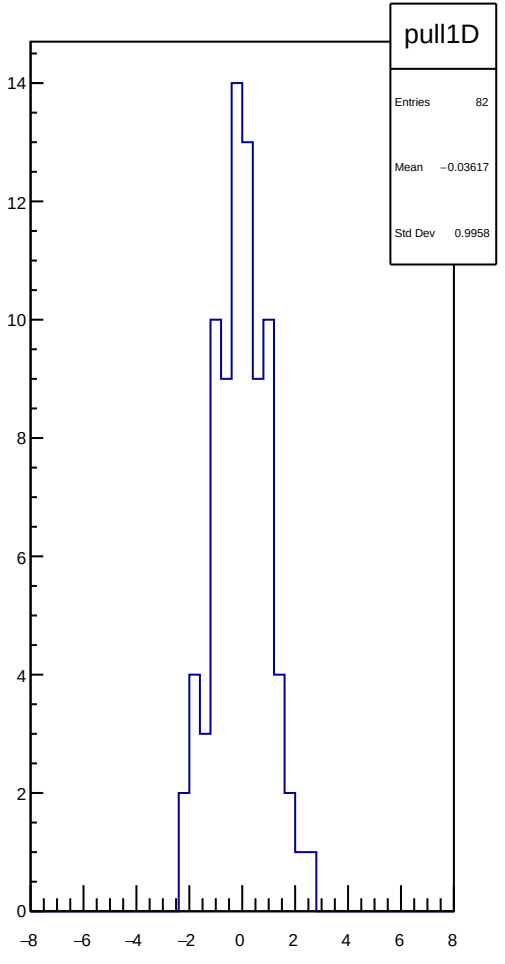

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 157.3 / 81
p0 1.29 ± 0.1836
pull
Entries 82
Mean 44.23
Std Dev 47.38

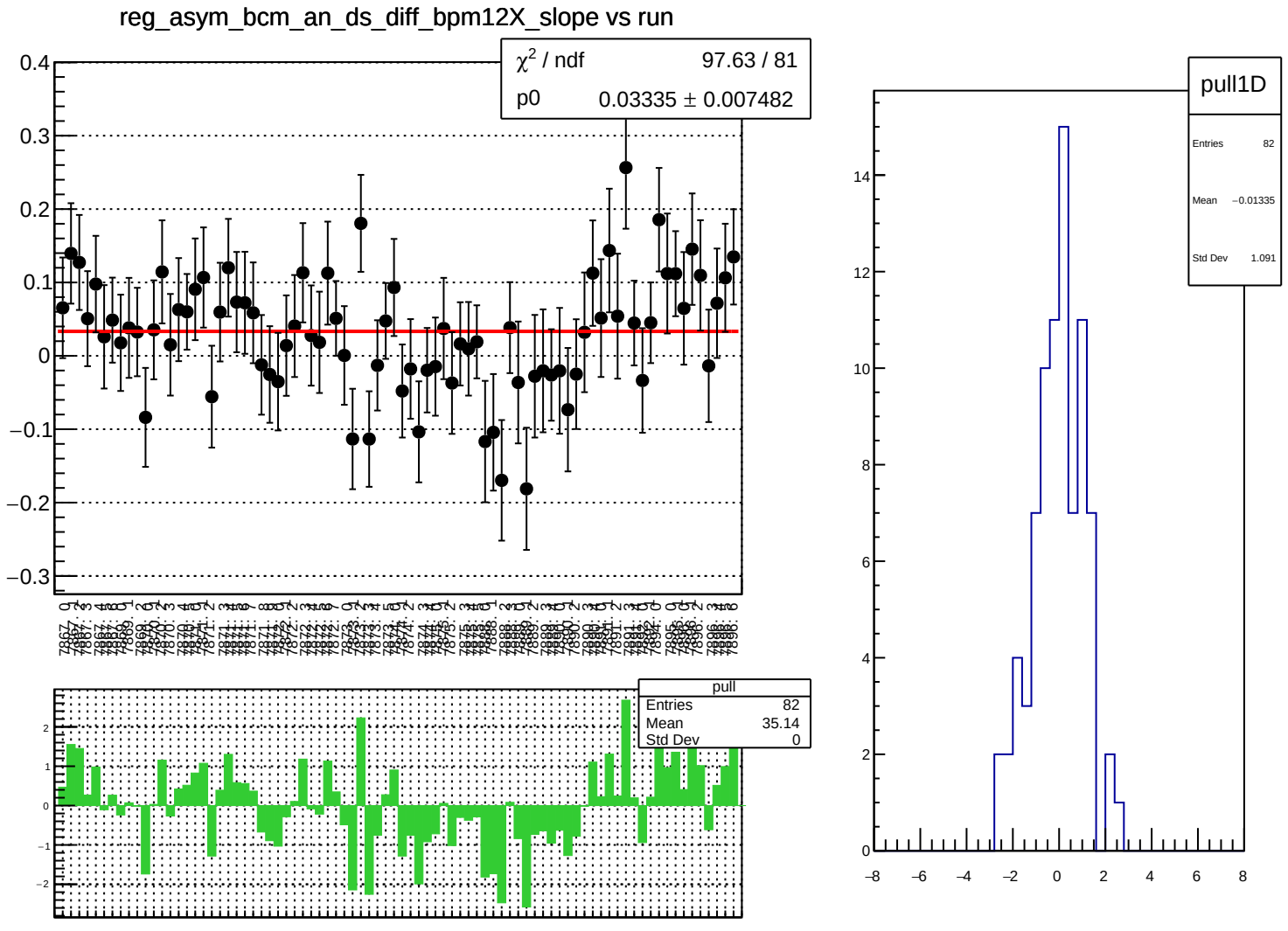

pull1D
Entries 82
Mean 0.2016
Std Dev 1.37

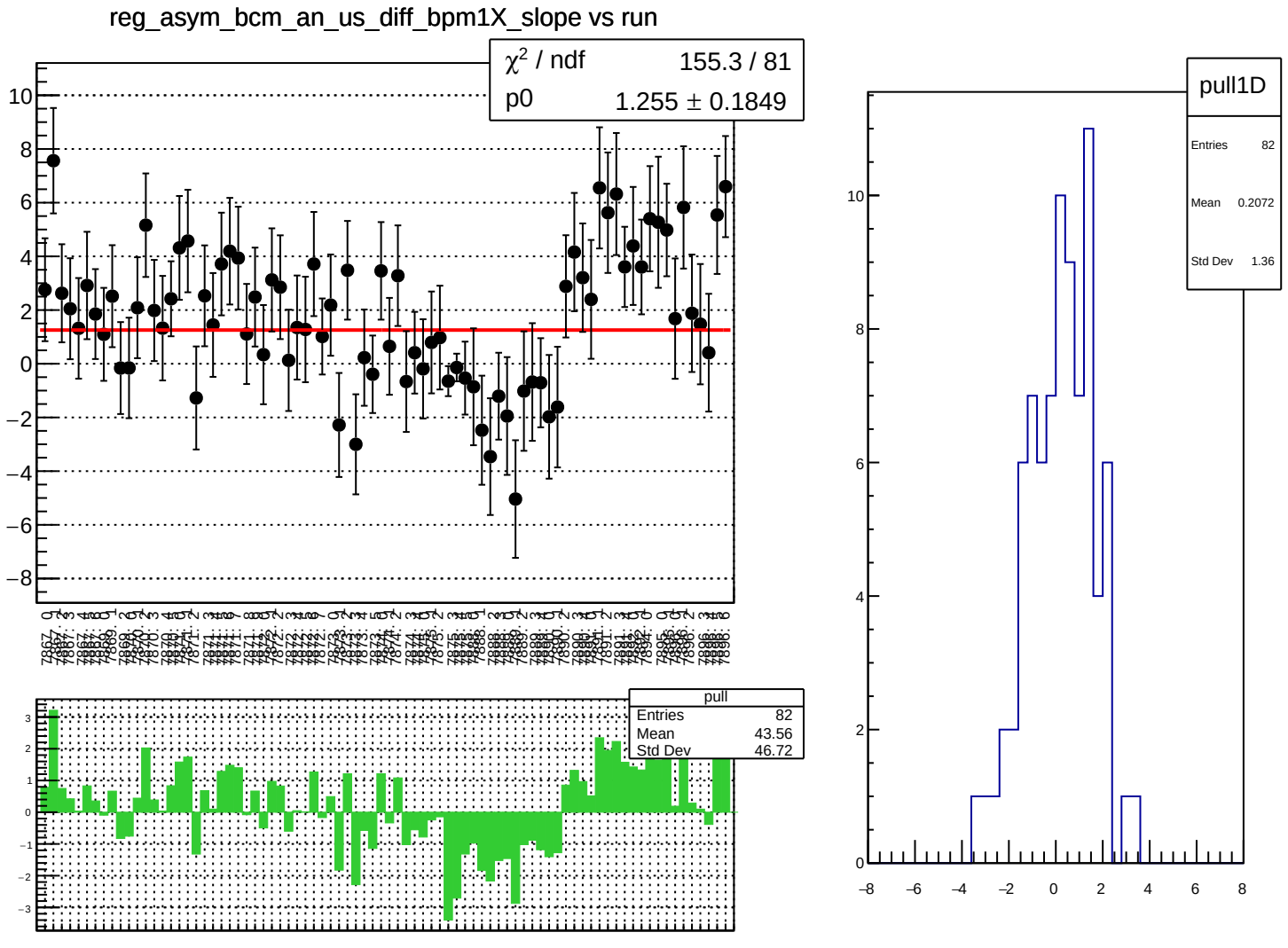

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 78.57 / 81
p0 0.1911 ± 0.2052
pull
Entries 82
Mean −651.1
Std Dev 0
pull1D
Entries 82
Mean 0.009154
Std Dev 0.9788

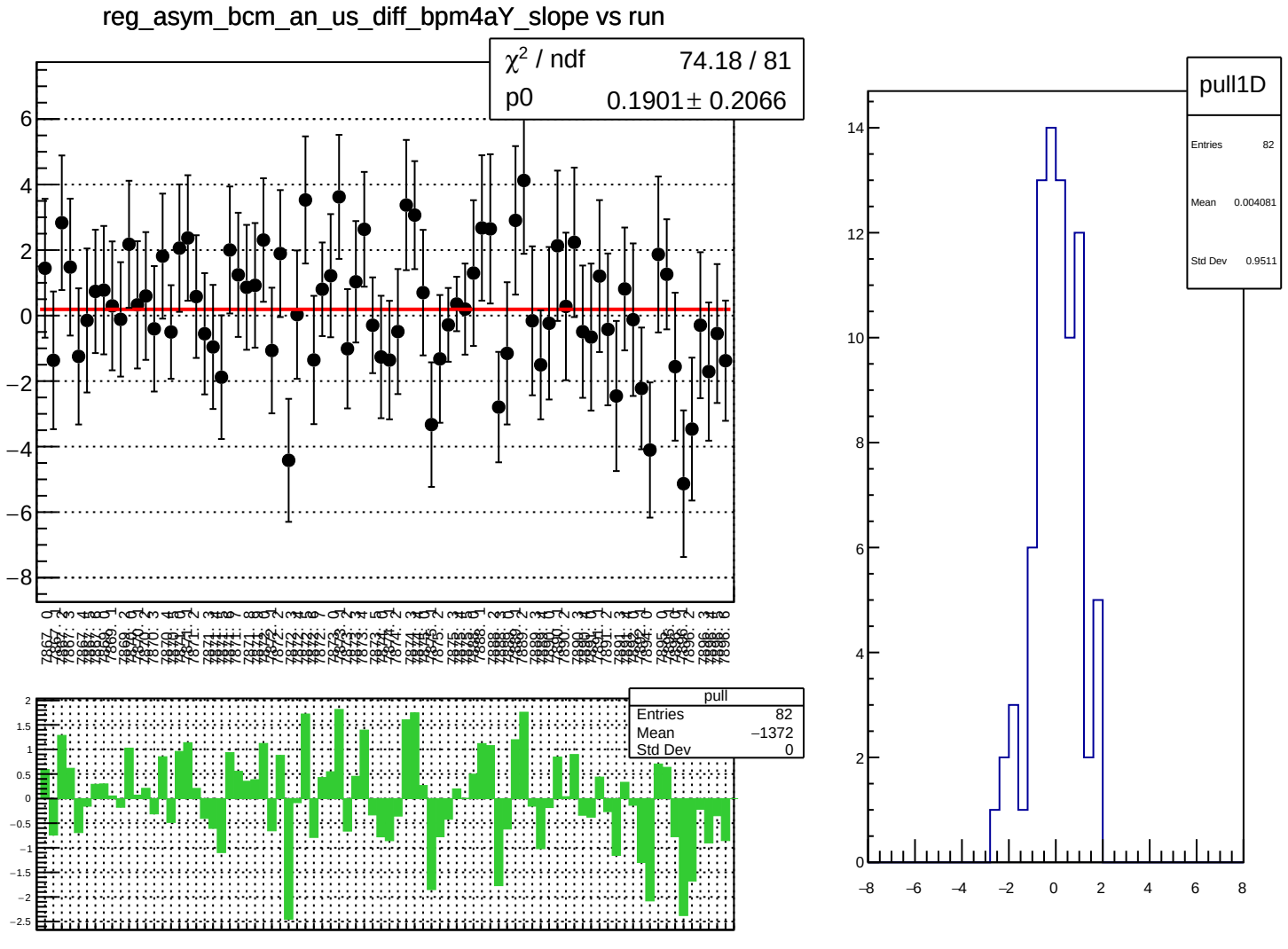

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 163.3 / 81
p0 −1.136 ± 0.1548
pull
Entries 82
Mean 45.95
Std Dev 42.8
pull1D
Entries 82
Mean −0.2628
Std Dev 1.386

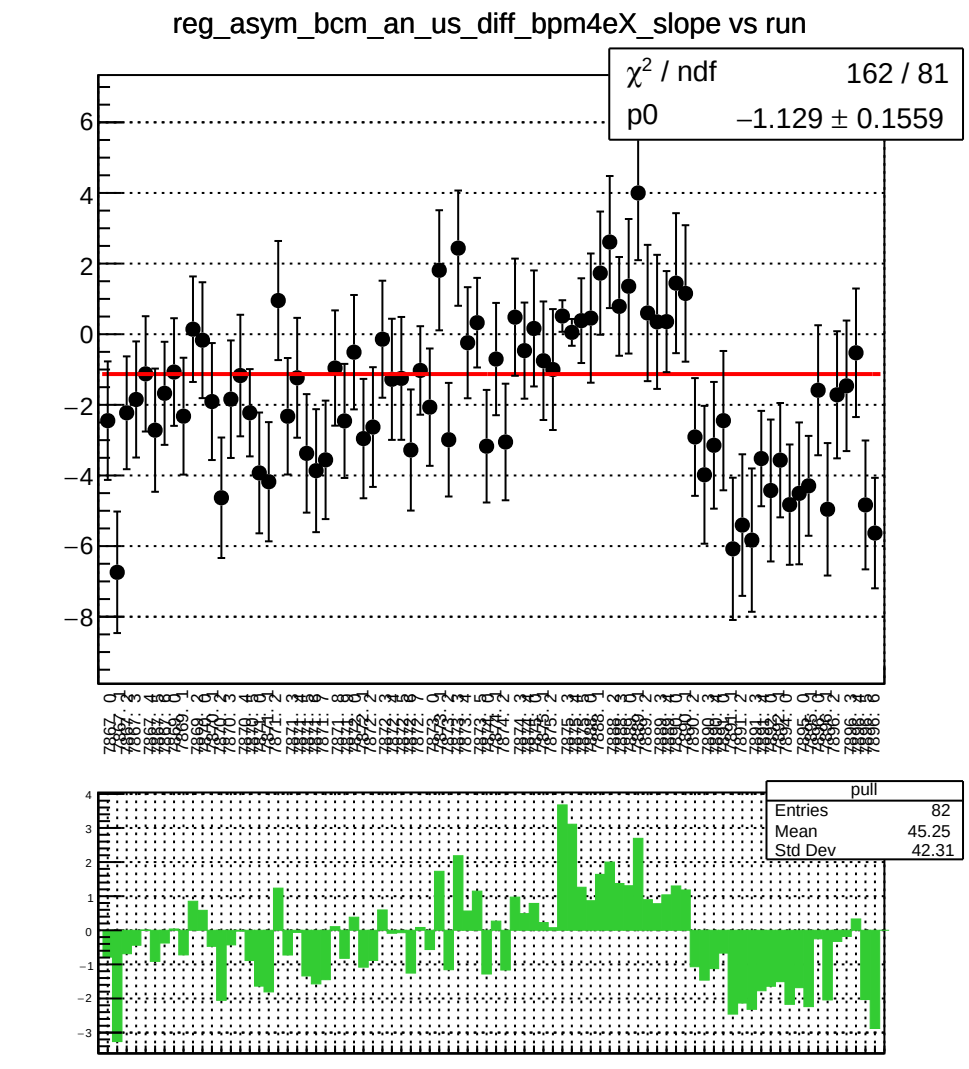

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 81.43 / 81
p0 −1.193 ± 0.2386
pull
Entries 82
Mean 83.07
Std Dev 0

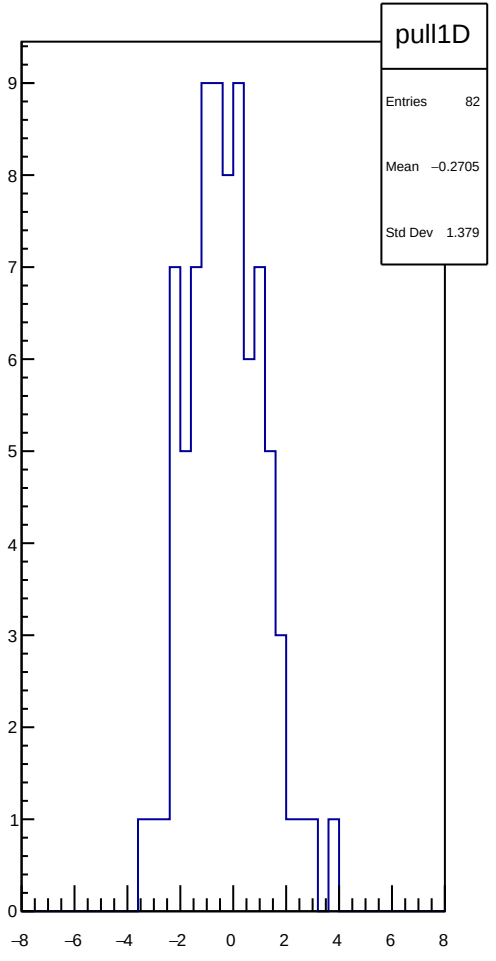

pull1D
Entries 82
Mean −0.03617
Std Dev 0.9958

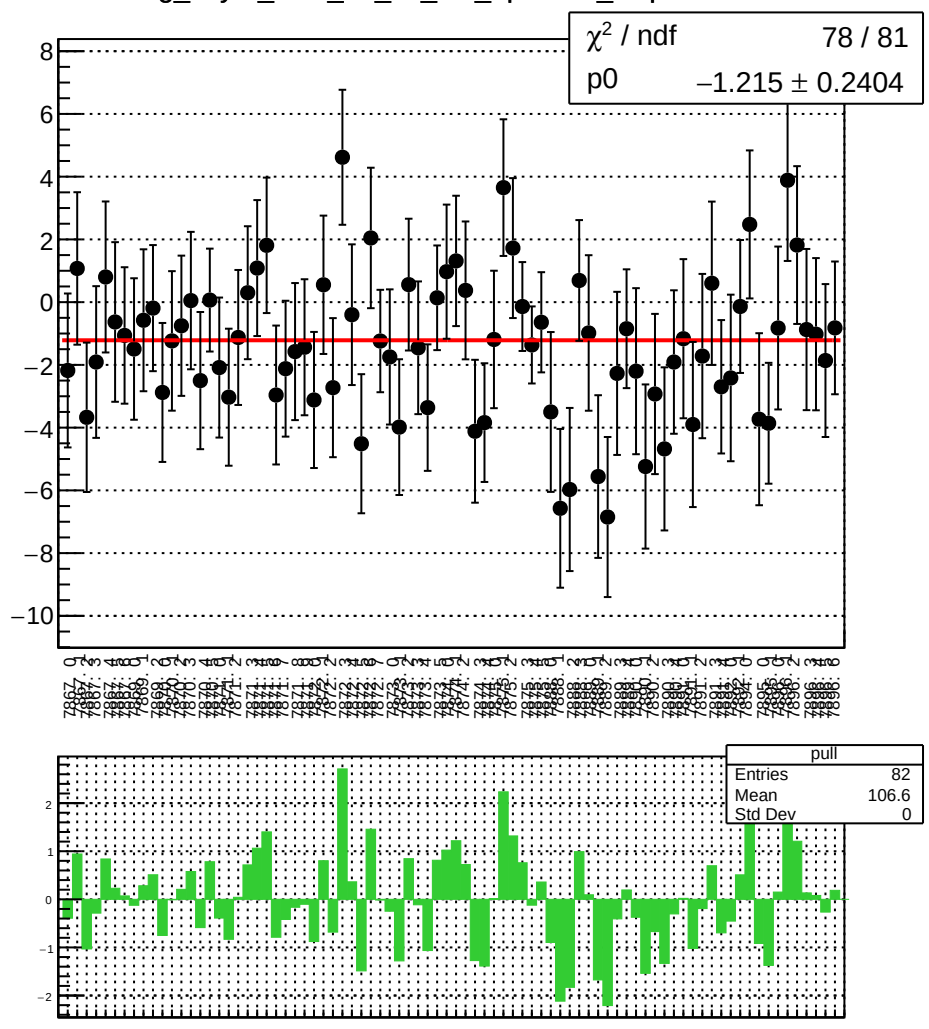

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 97.63 / 81
p0 0.03335 ± 0.007482
pull
Entries 82
Mean 35.14
Std Dev 0
pull1D
Entries 82
Mean −0.01335
Std Dev 1.091

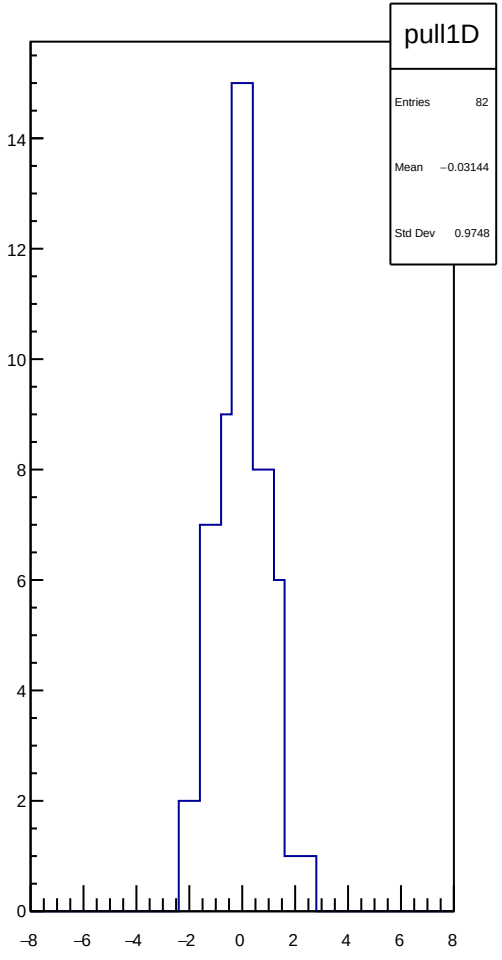

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 155.3 / 81
p0 1.255 ± 0.1849
pull
Entries 82
Mean 43.56
Std Dev 46.72
pull1D
Entries 82
Mean 0.2072
Std Dev 1.36

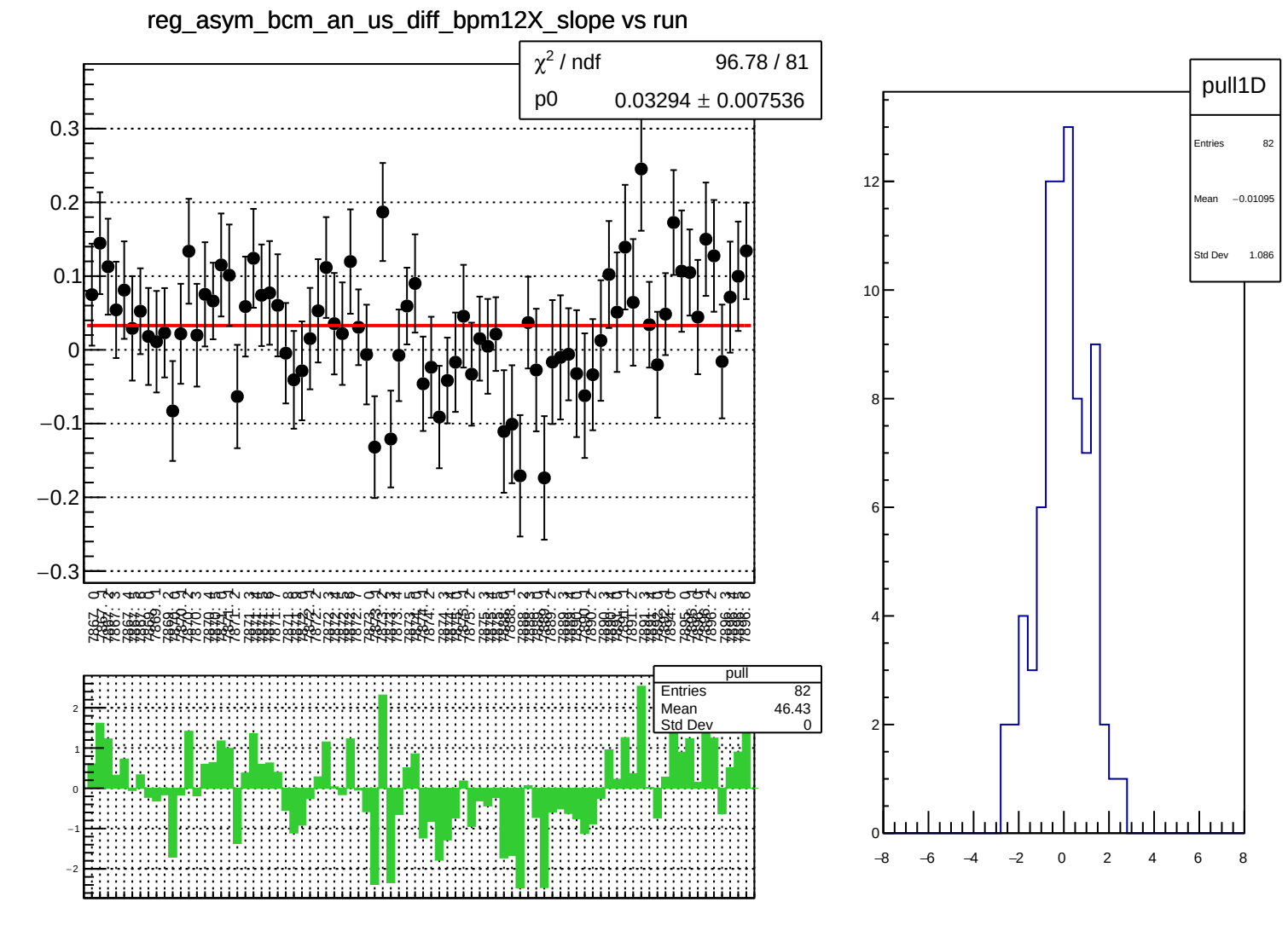

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 74.18 / 81
p0 0.1901± 0.2066
pull
Entries 82
Mean −1372
Std Dev 0
pull1D
Entries 82
Mean 0.004081
Std Dev 0.9511

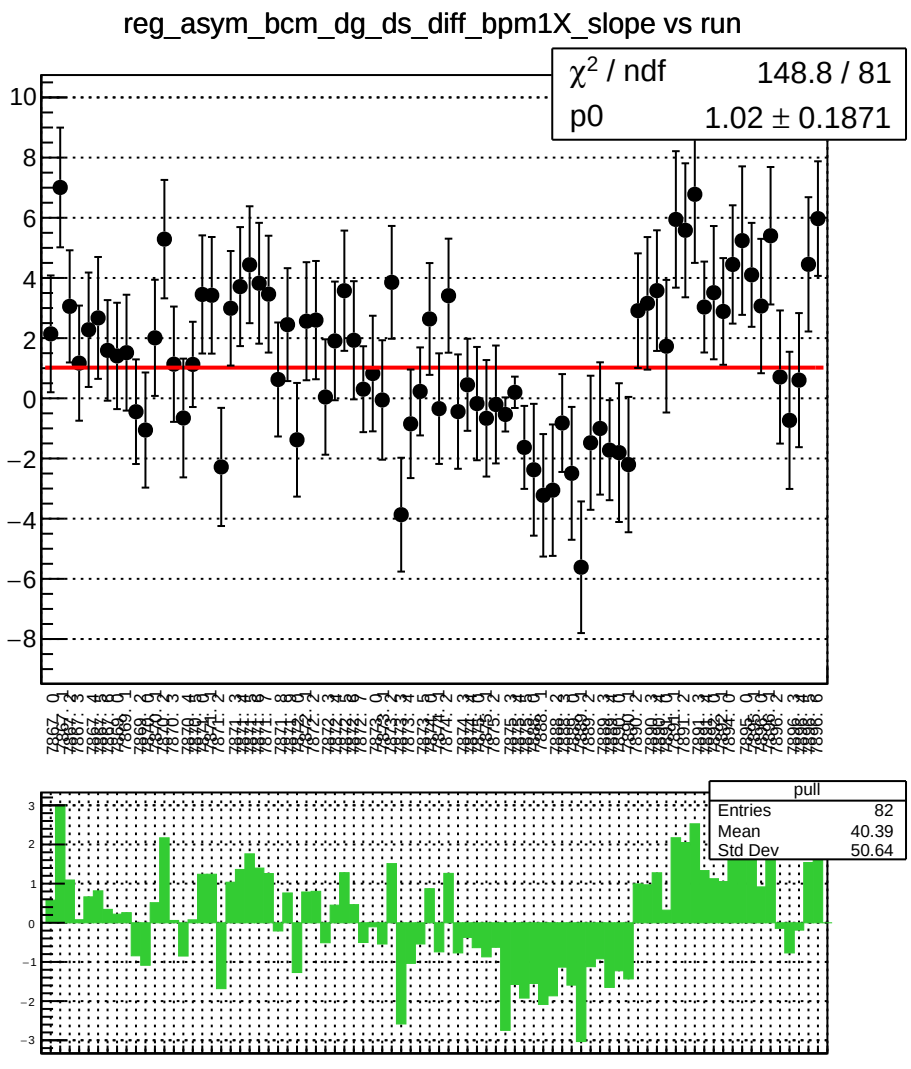

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 162 / 81
p0 −1.129 ± 0.1559
pull
Entries 82
Mean 45.25
Std Dev 42.31

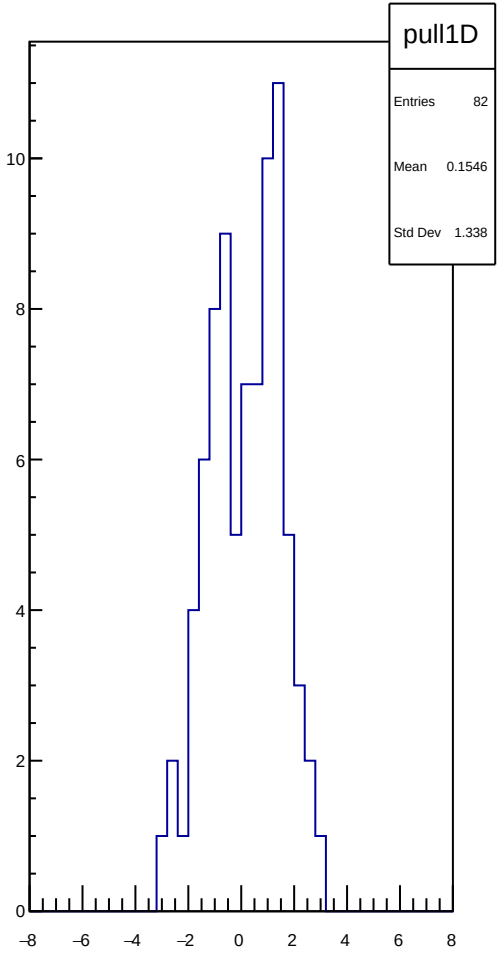

pull1D
Entries 82
Mean −0.2705
Std Dev 1.379

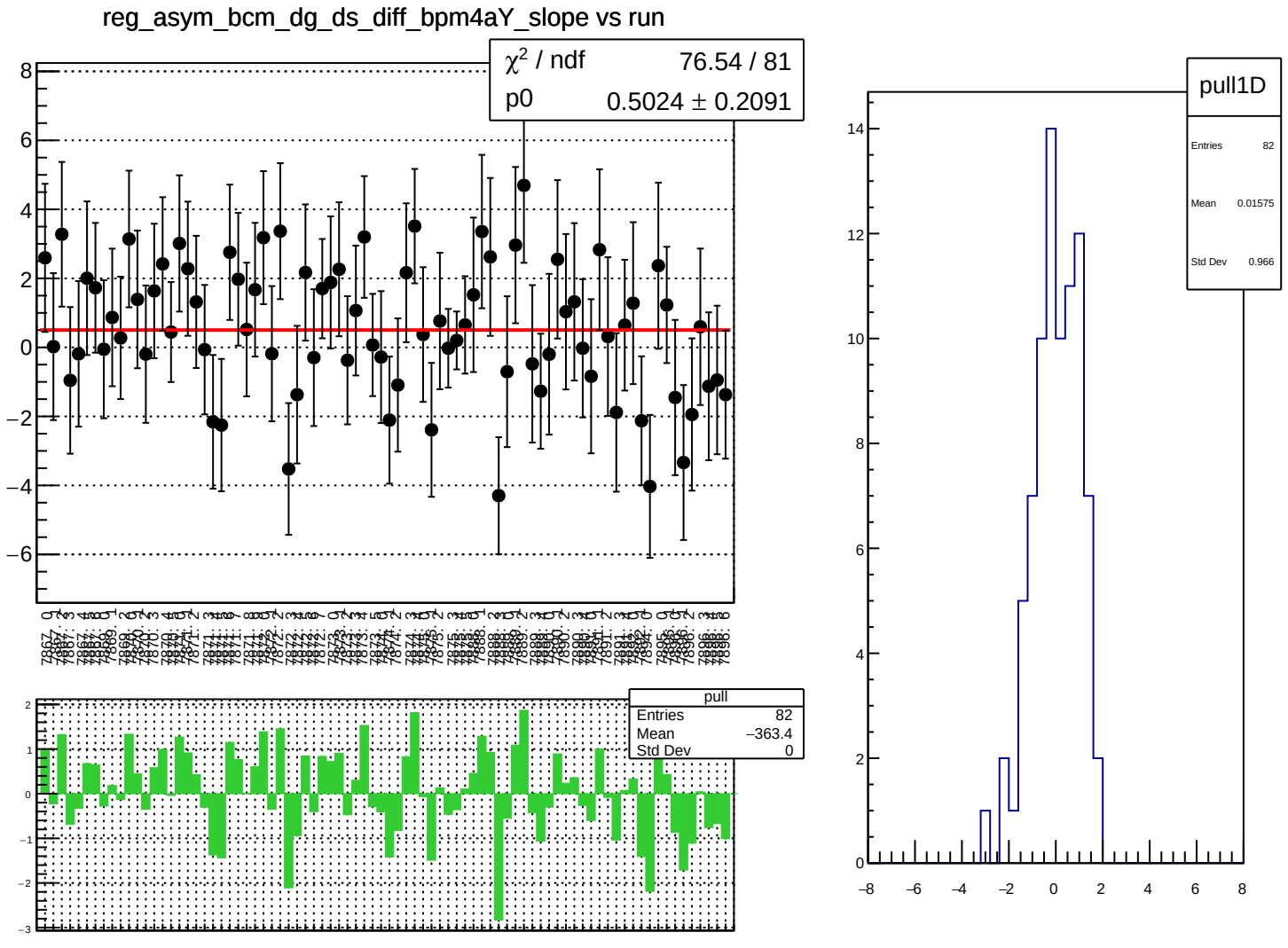

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 78 / 81
p0 −1.215 ± 0.2404
pull
Entries 82
Mean 106.6
Std Dev 0

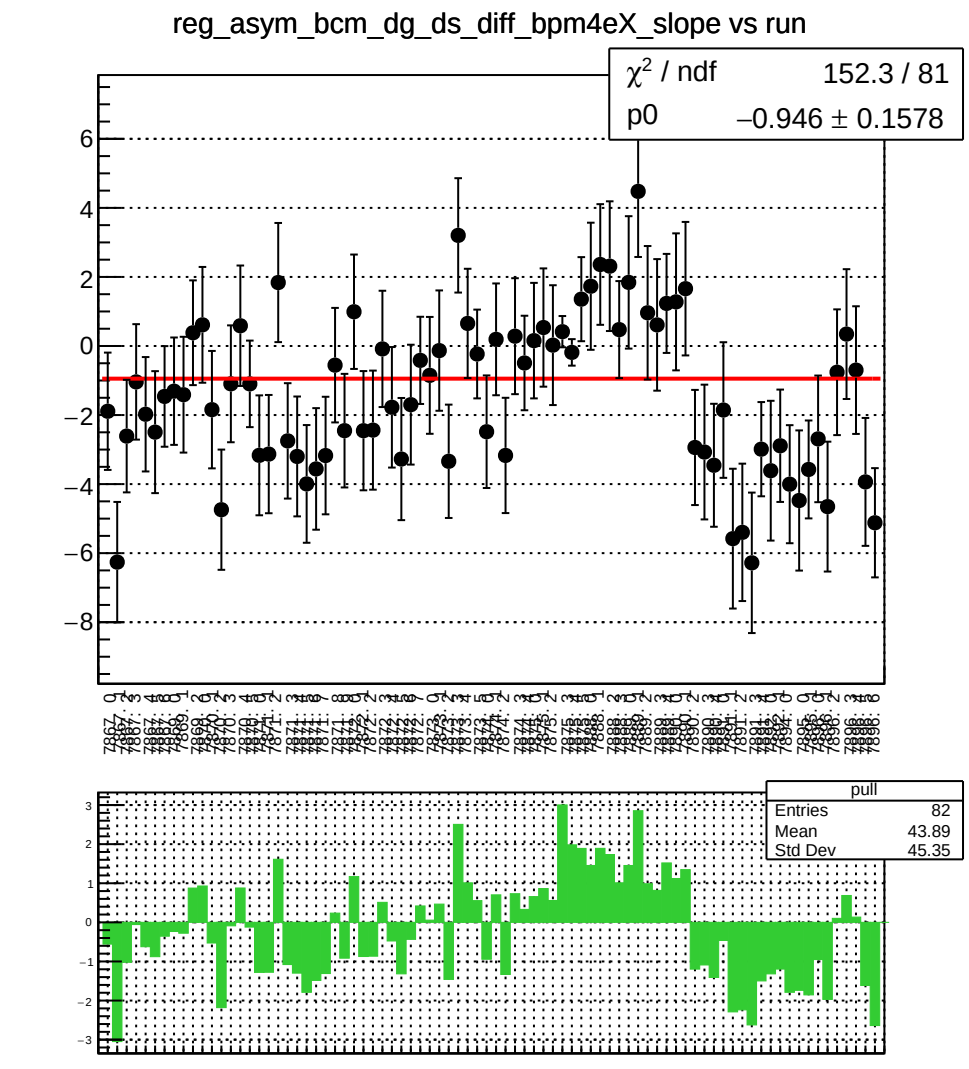

pull1D
Entries 82
Mean −0.03144
Std Dev 0.9748

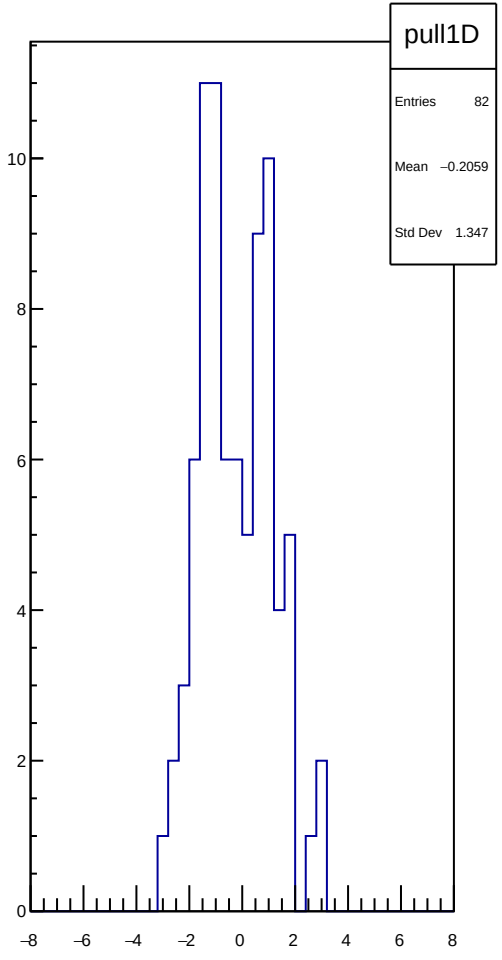

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 96.78 / 81
p0 0.03294 ± 0.007536
pull
Entries 82
Mean 46.43
Std Dev 0
pull1D
Entries 82
Mean −0.01095
Std Dev 1.086

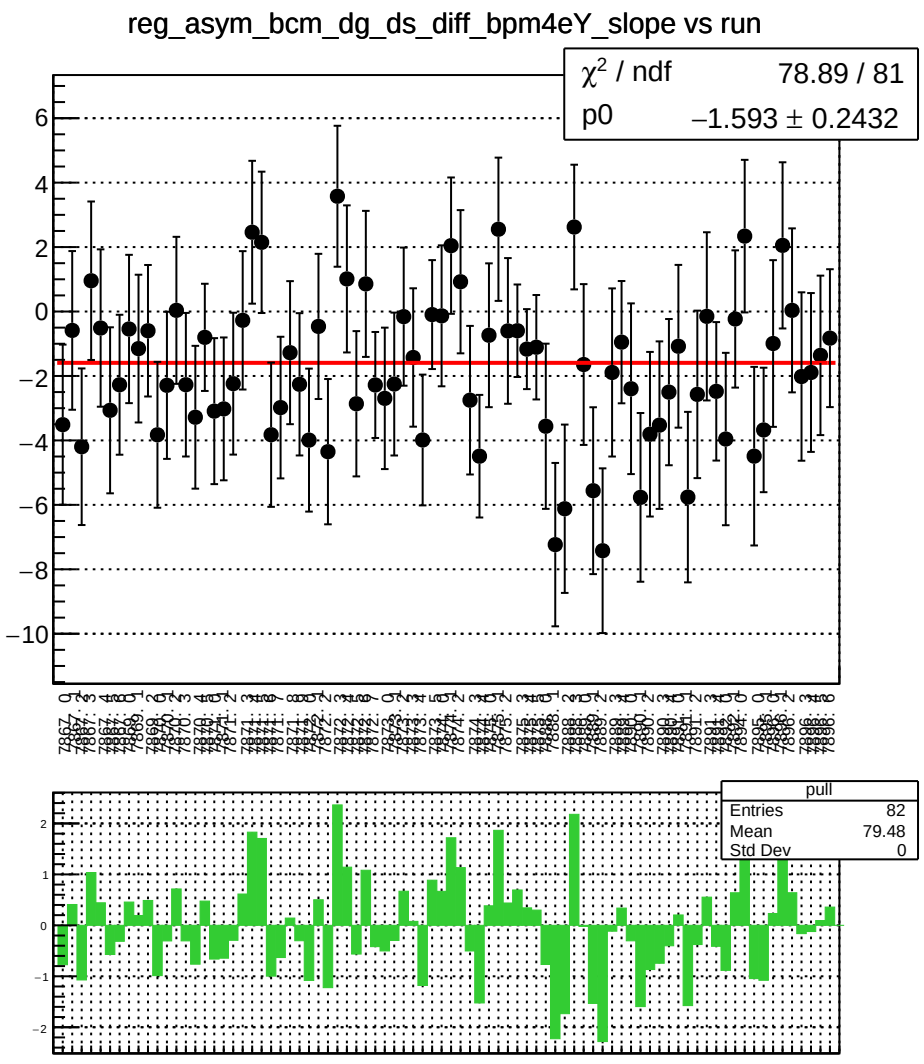

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 148.8 / 81
p0 1.02 ± 0.1871
pull
Entries 82
Mean 40.39
Std Dev 50.64

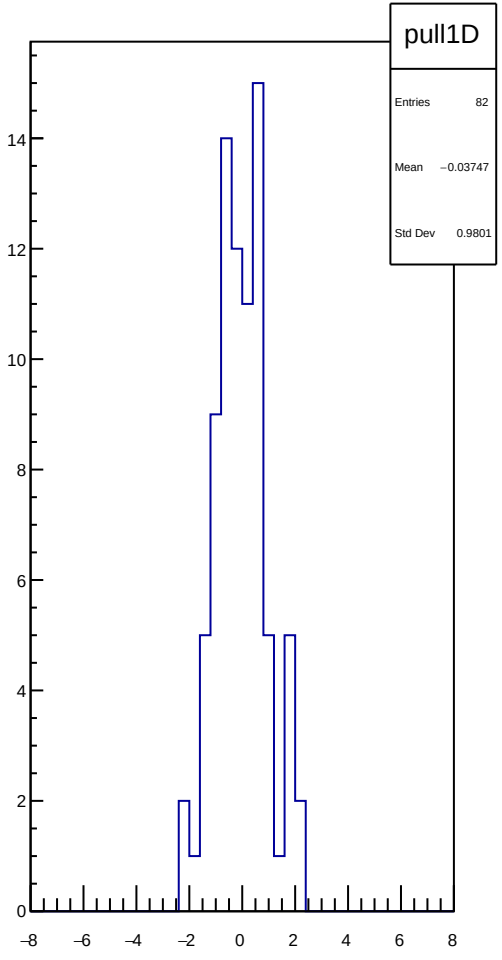

pull1D
Entries 82
Mean 0.1546
Std Dev 1.338

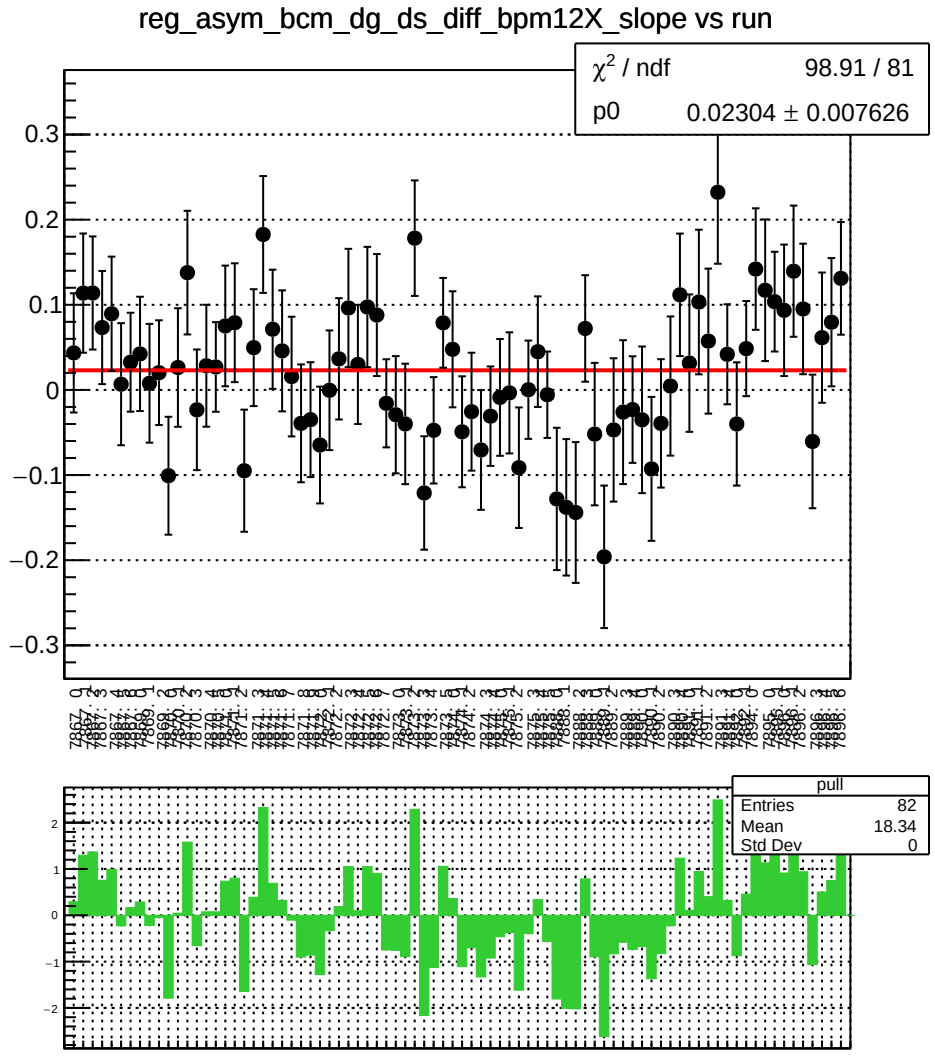

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 76.54 / 81
p0 0.5024 ± 0.2091
pull
Entries 82
Mean −363.4
Std Dev 0
pull1D
Entries 82
Mean 0.01575
Std Dev 0.966

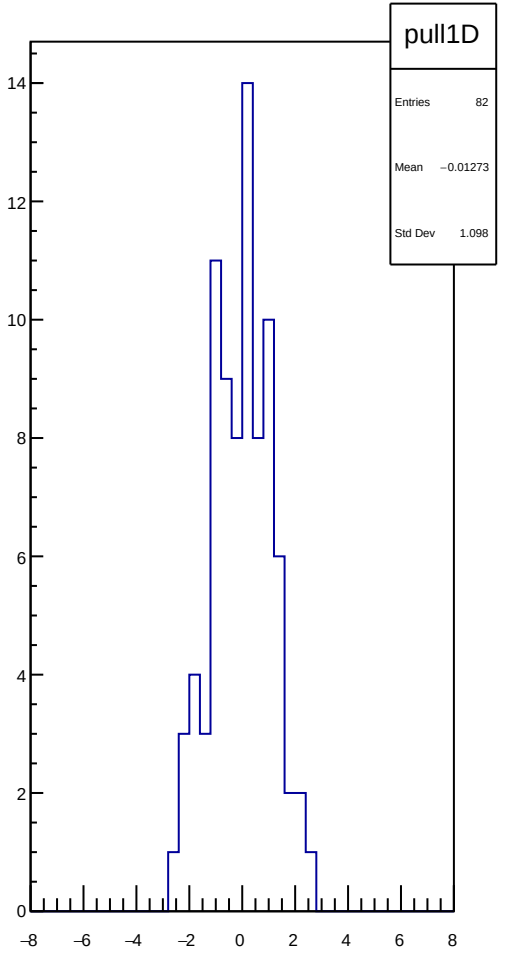

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 152.3 / 81
p0 −0.946 ± 0.1578
pull
Entries 82
Mean 43.89
Std Dev 45.35

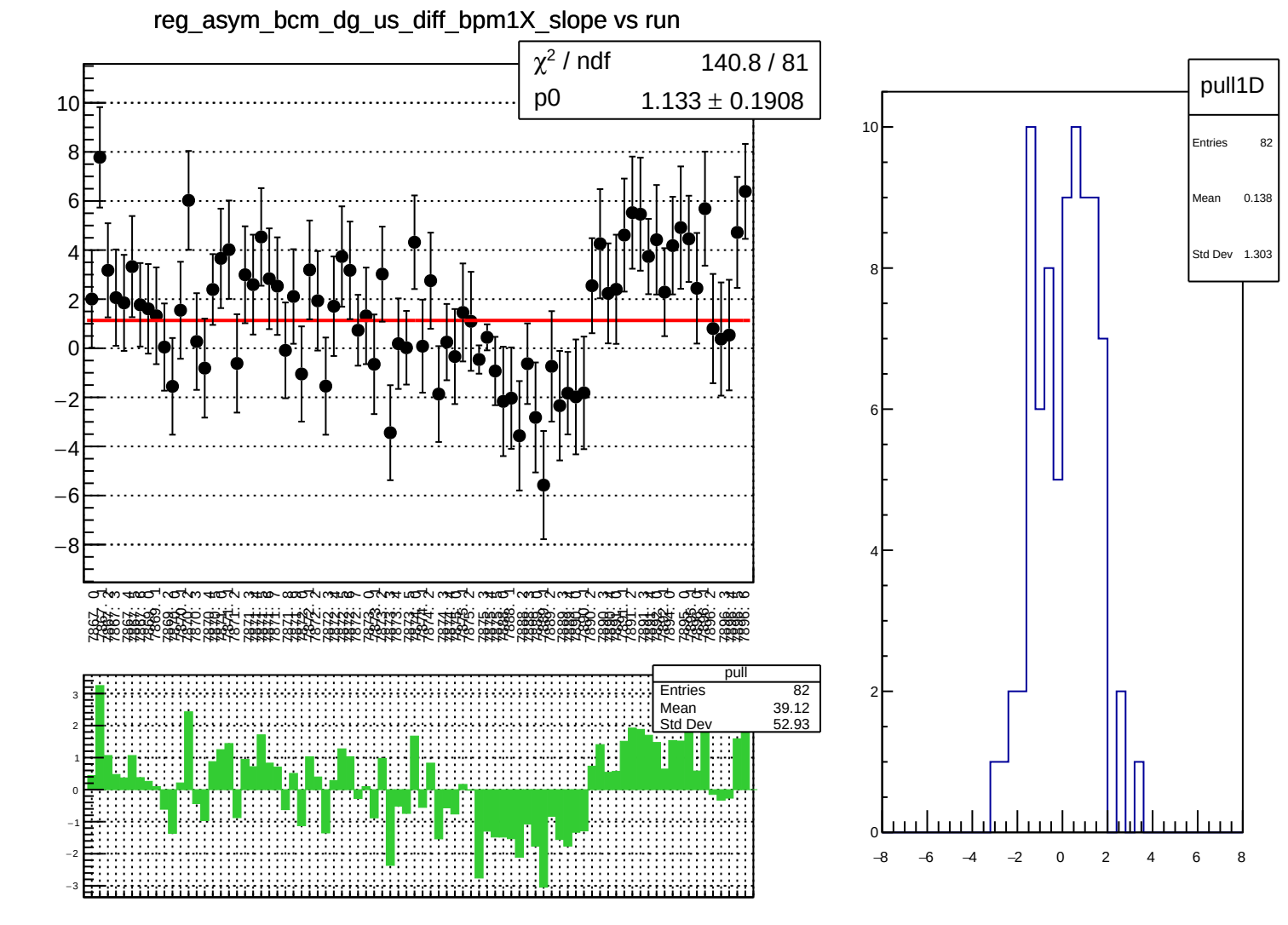

pull1D
Entries 82
Mean −0.2059
Std Dev 1.347

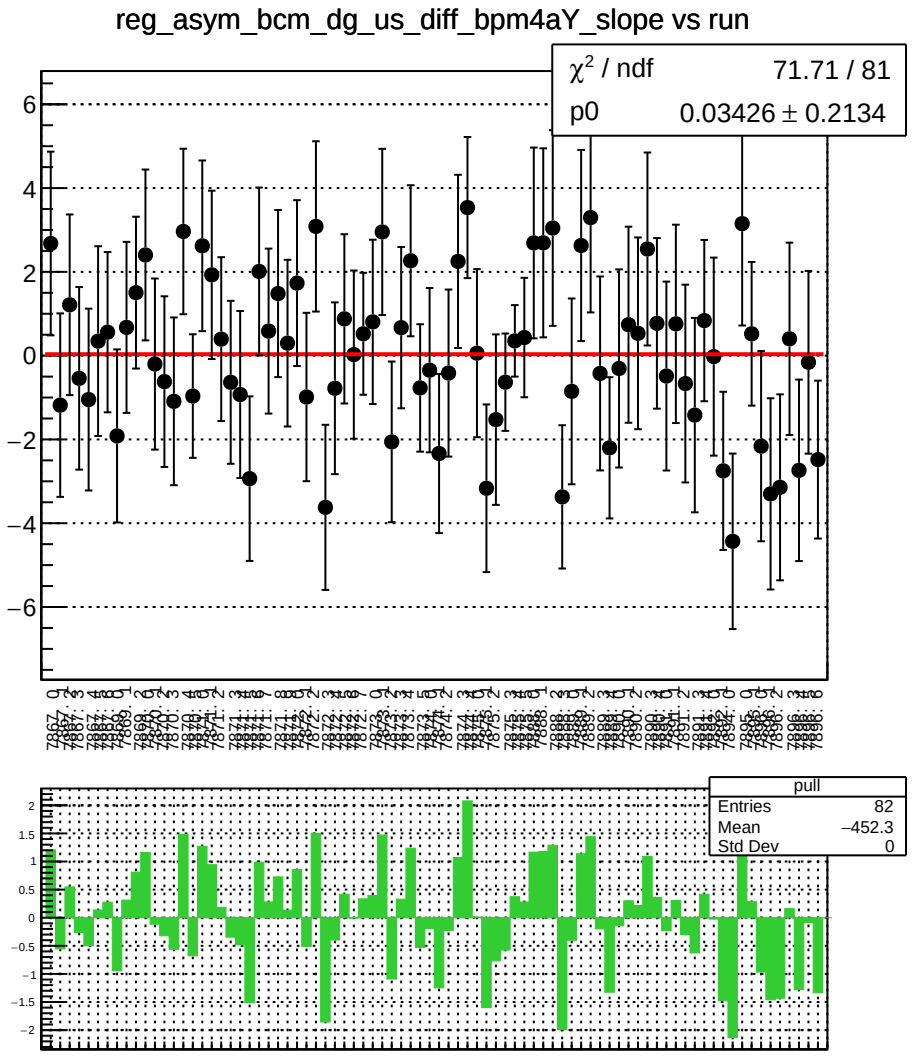

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 78.89 / 81
p0 −1.593 ± 0.2432
pull
Entries 82
Mean 79.48
Std Dev 0

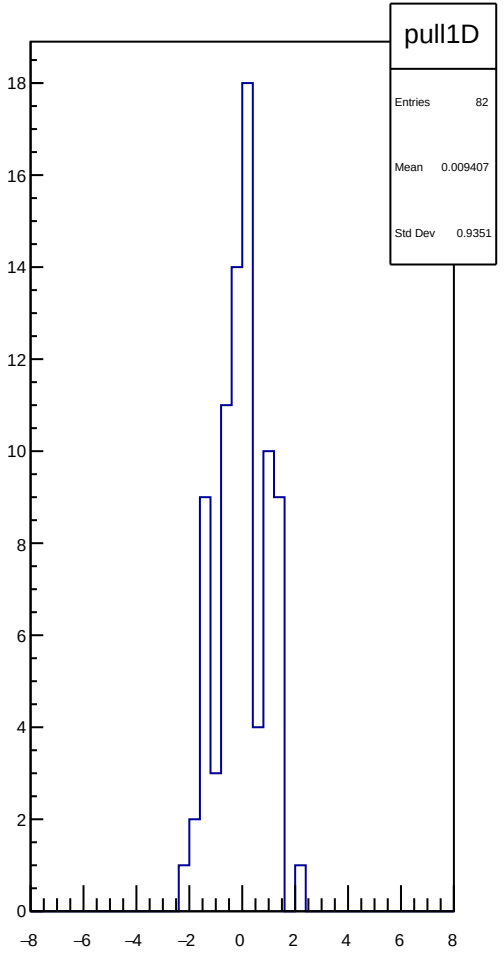

pull1D
Entries 82
Mean −0.03747
Std Dev 0.9801

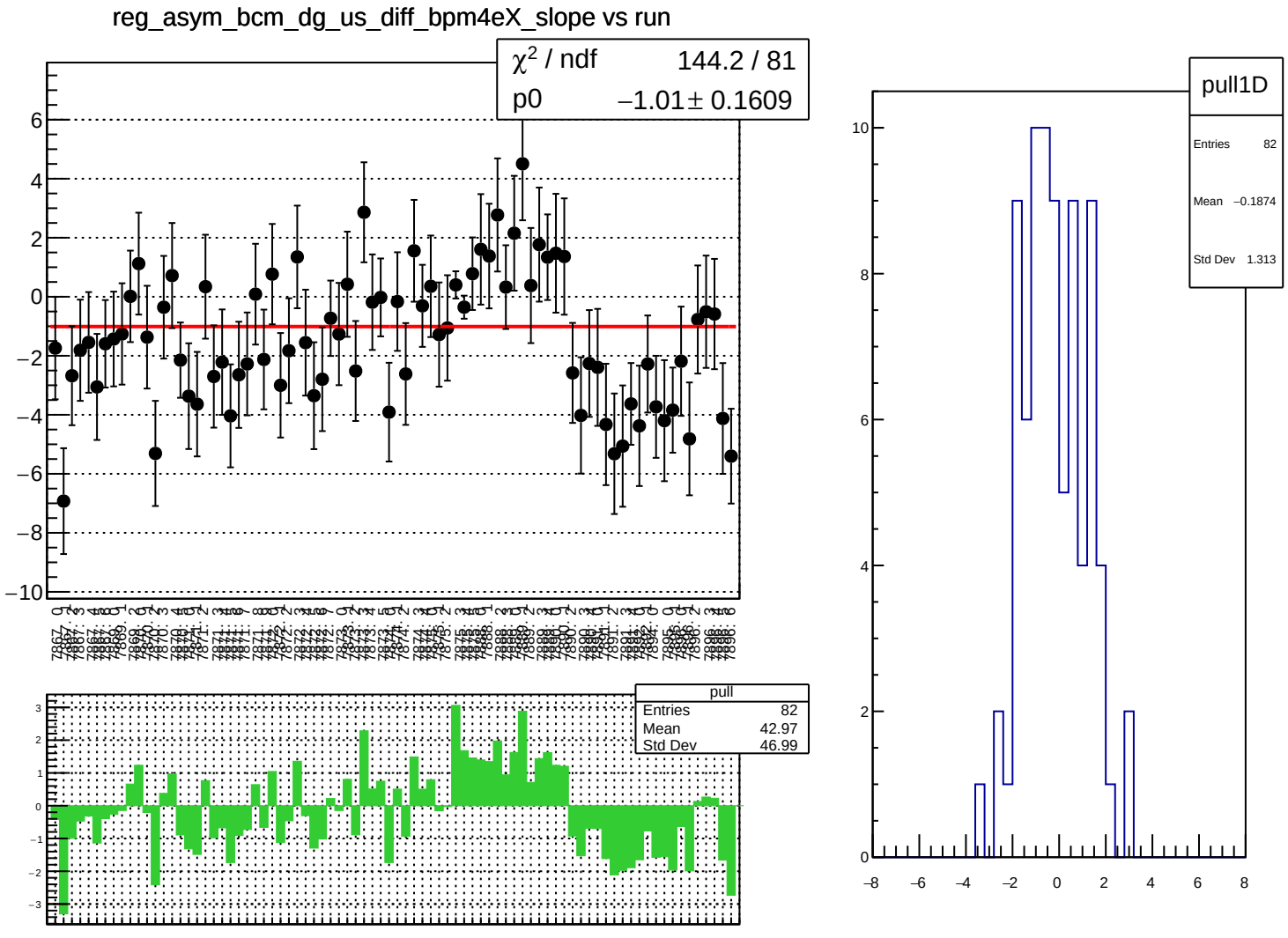

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 98.91 / 81
p0 0.02304 ± 0.007626
pull
Entries 82
Mean 18.34
Std Dev 0

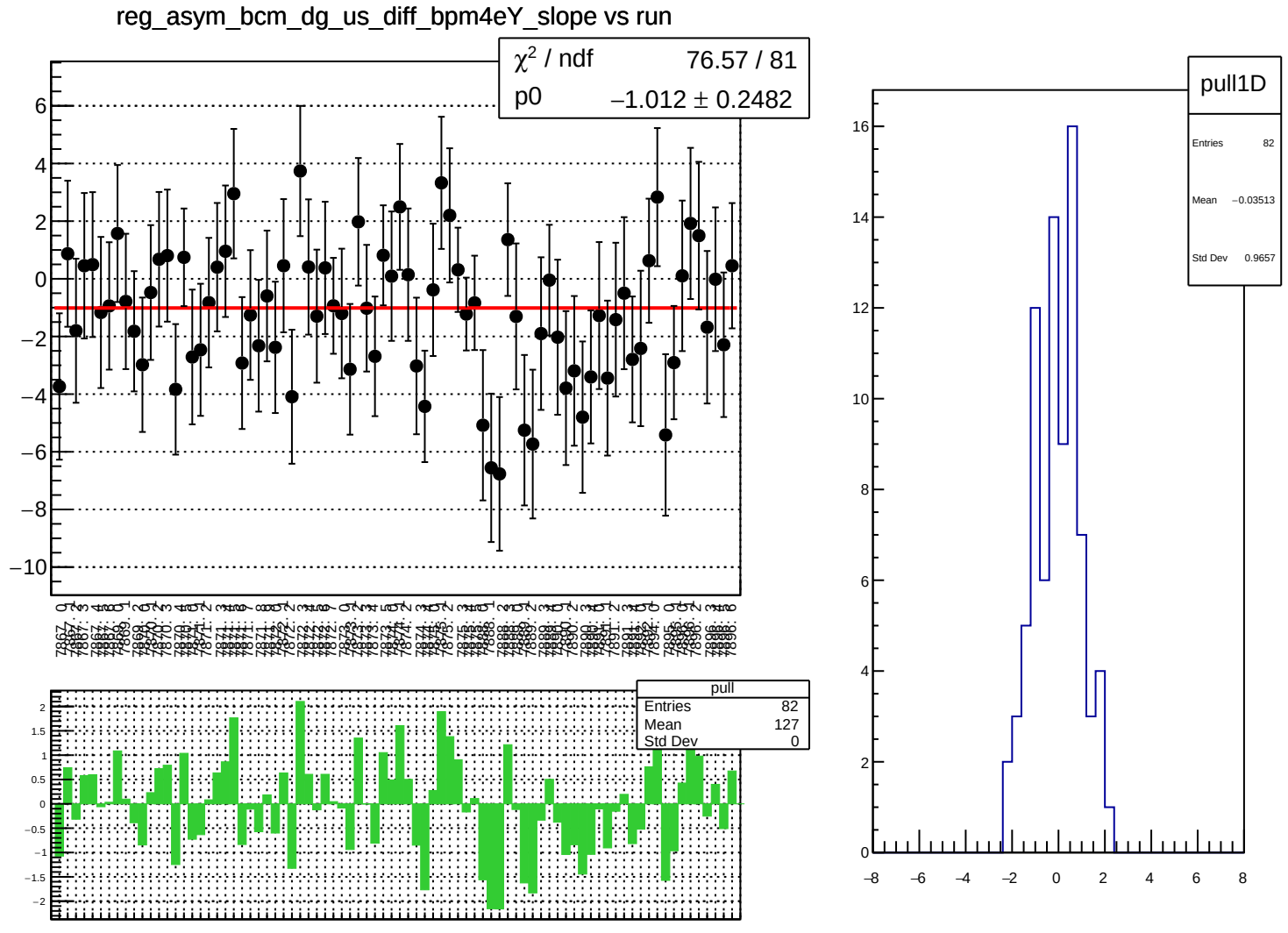

pull1D
Entries 82
Mean −0.01273
Std Dev 1.098

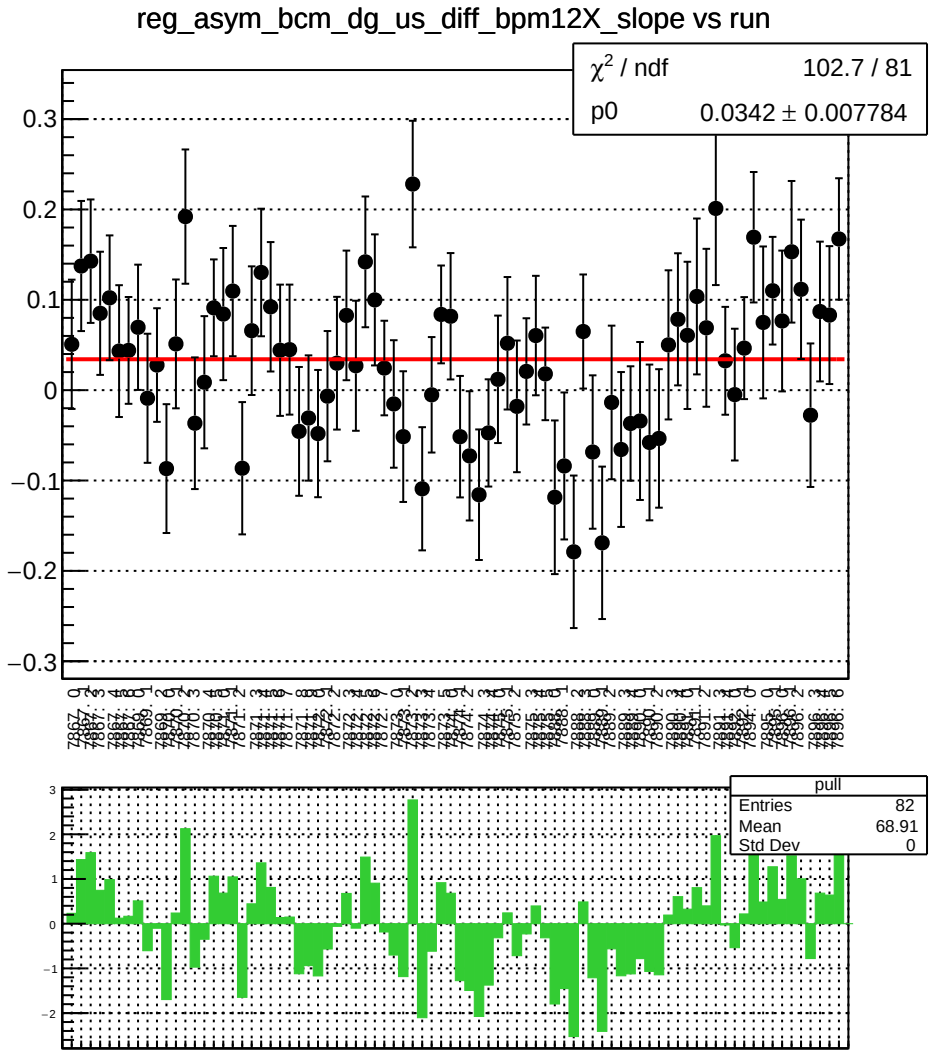

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 140.8 / 81
p0 1.133 ± 0.1908
pull
Entries 82
Mean 39.12
Std Dev 52.93
pull1D
Entries 82
Mean 0.138
Std Dev 1.303

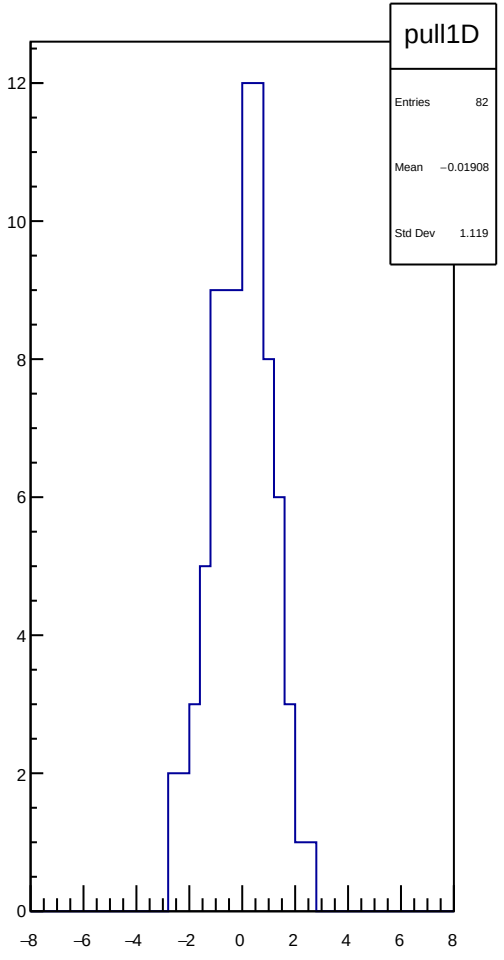

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 71.71 / 81
p0 0.03426 ± 0.2134
pull
Entries 82
Mean −452.3
Std Dev 0

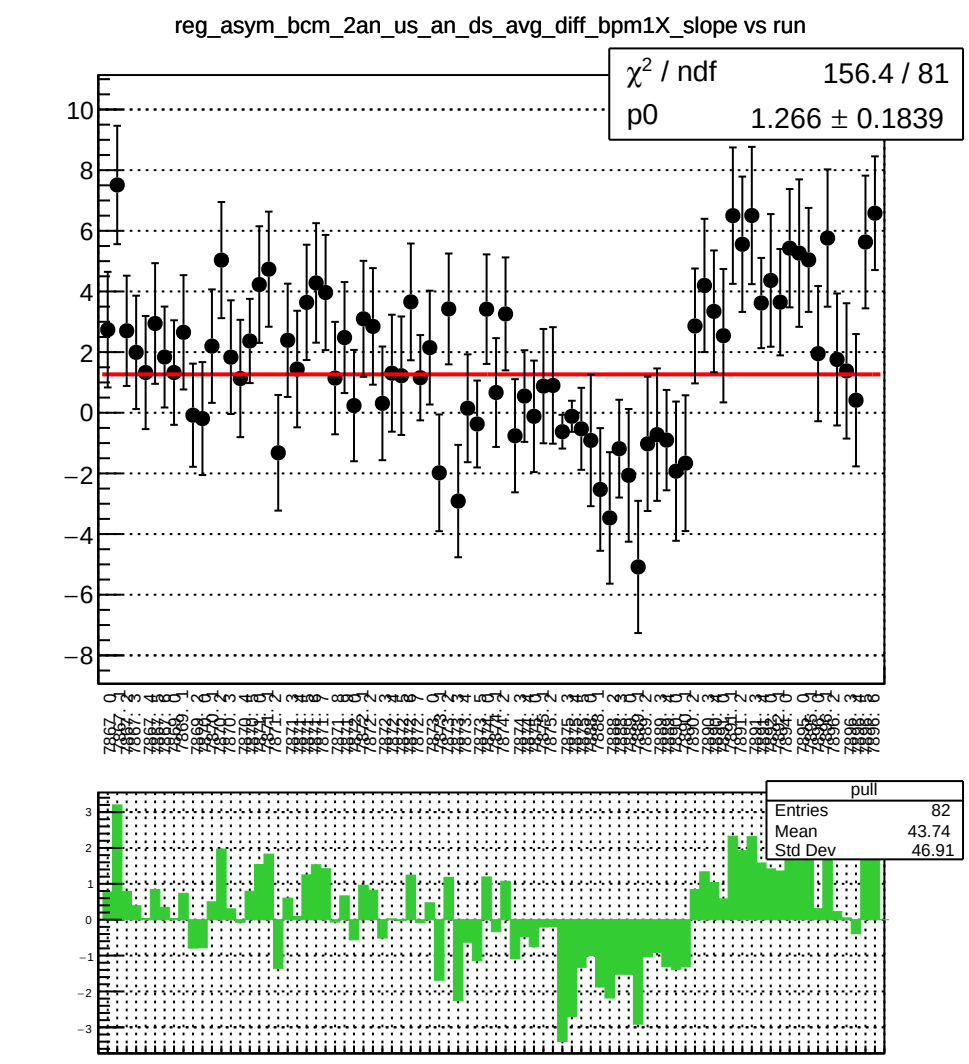

pull1D
Entries 82
Mean 0.009407
Std Dev 0.9351

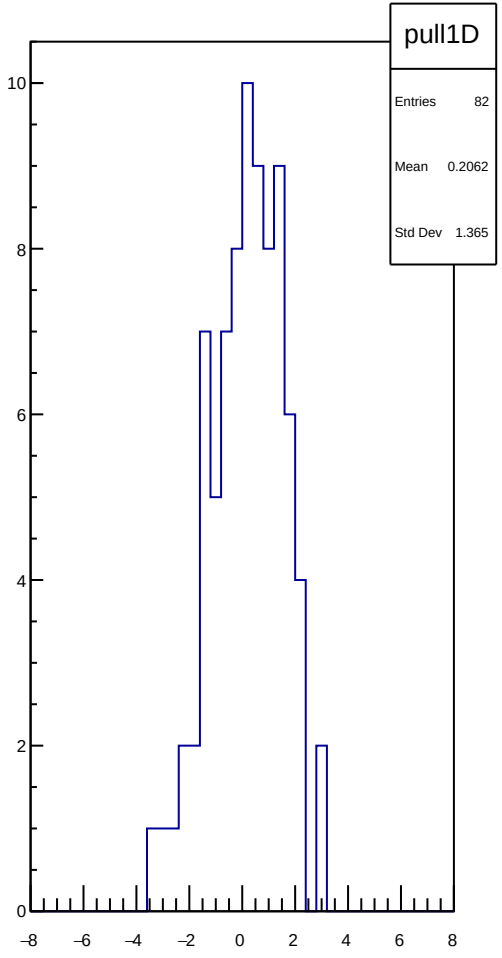

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 144.2 / 81
p0 −1.01 ± 0.1609
pull
Entries 82
Mean 42.97
Std Dev 46.99
pull1D
Entries 82
Mean −0.1874
Std Dev 1.313

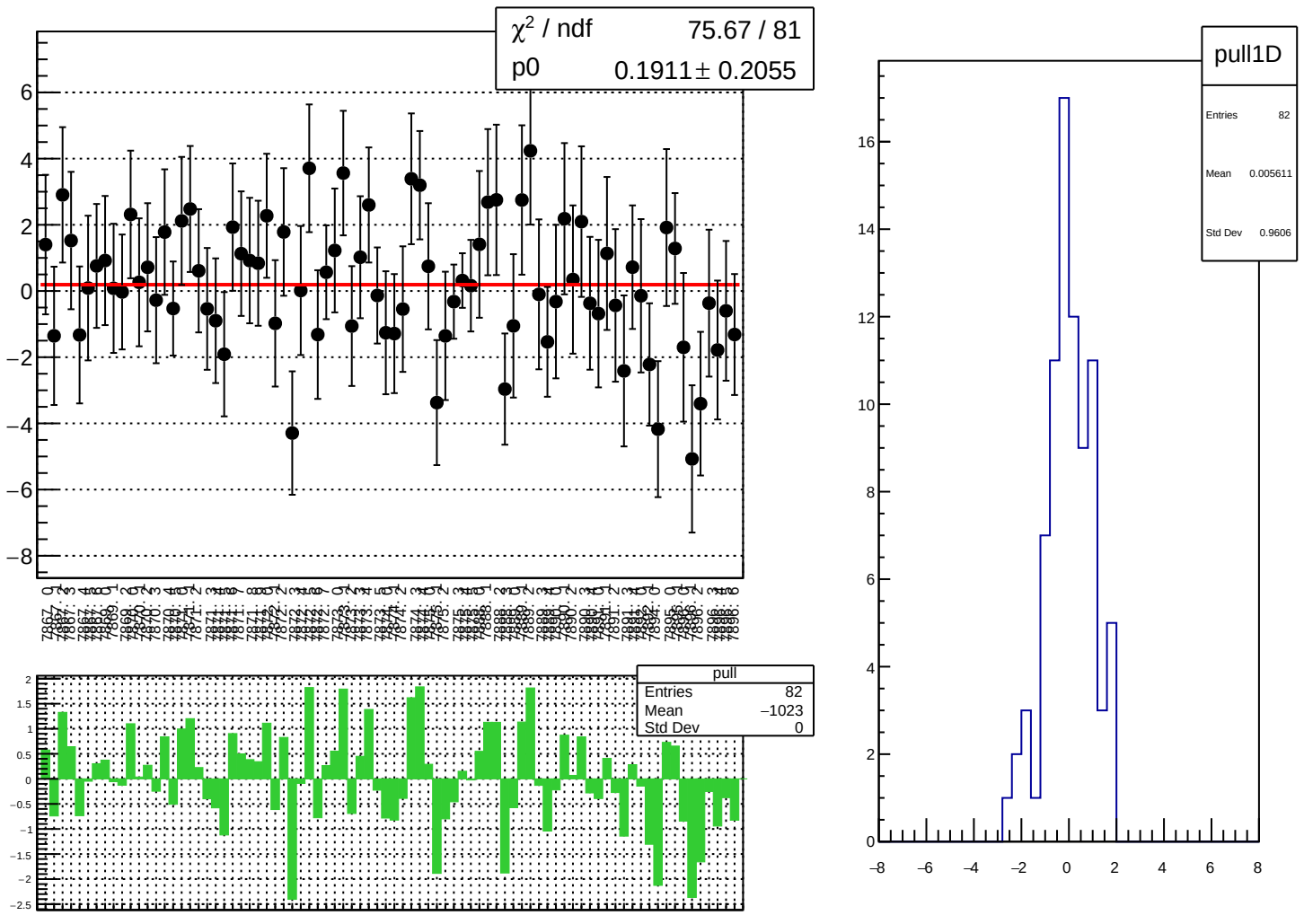

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 76.57 / 81
p0 −1.012 ± 0.2482
pull
Entries 82
Mean 127
Std Dev 0
pull1D
Entries 82
Mean −0.03513
Std Dev 0.9657

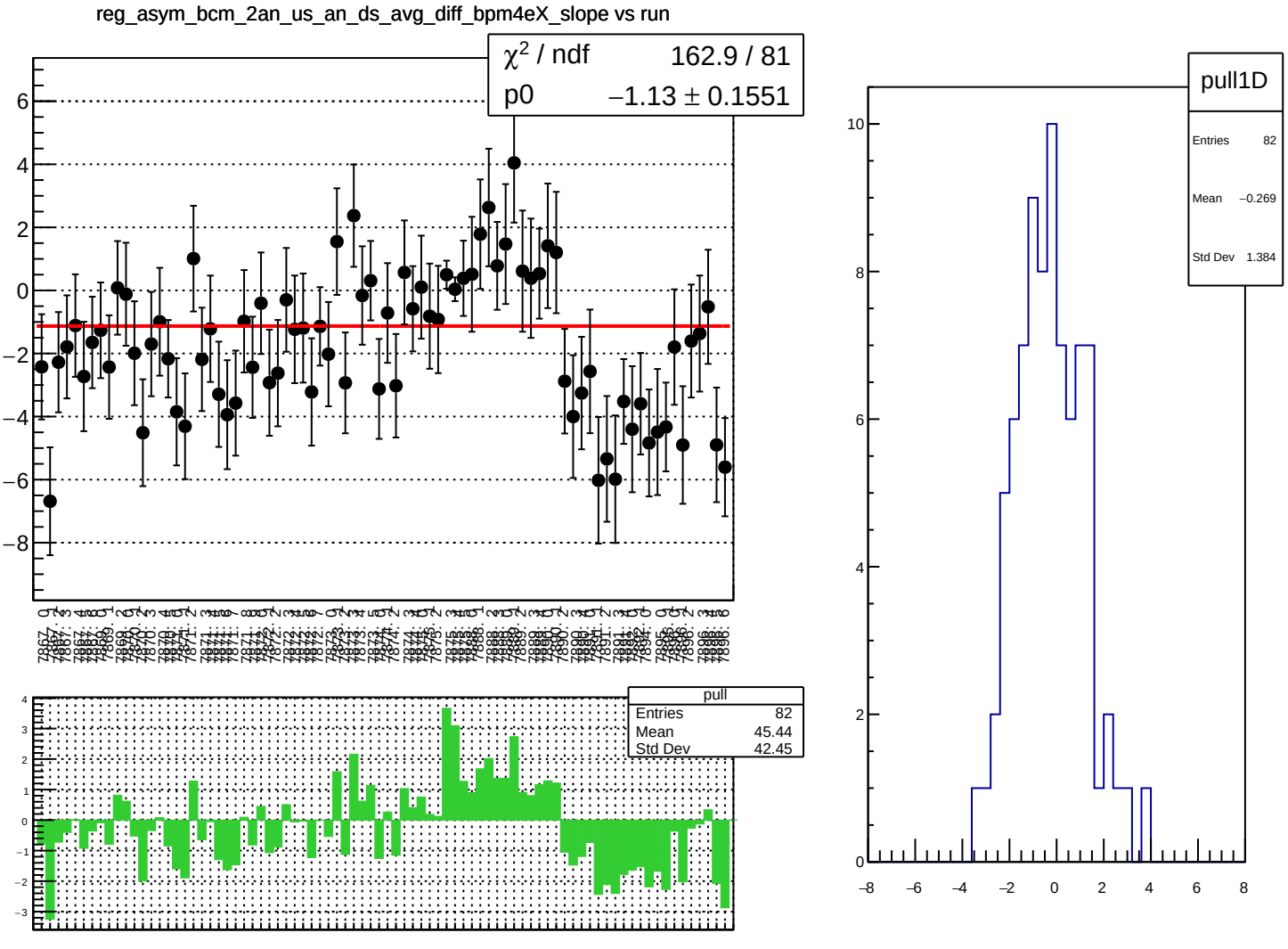

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 102.7 / 81
p0 0.0342 ± 0.007784
pull
Entries 82
Mean 68.91
Std Dev 0

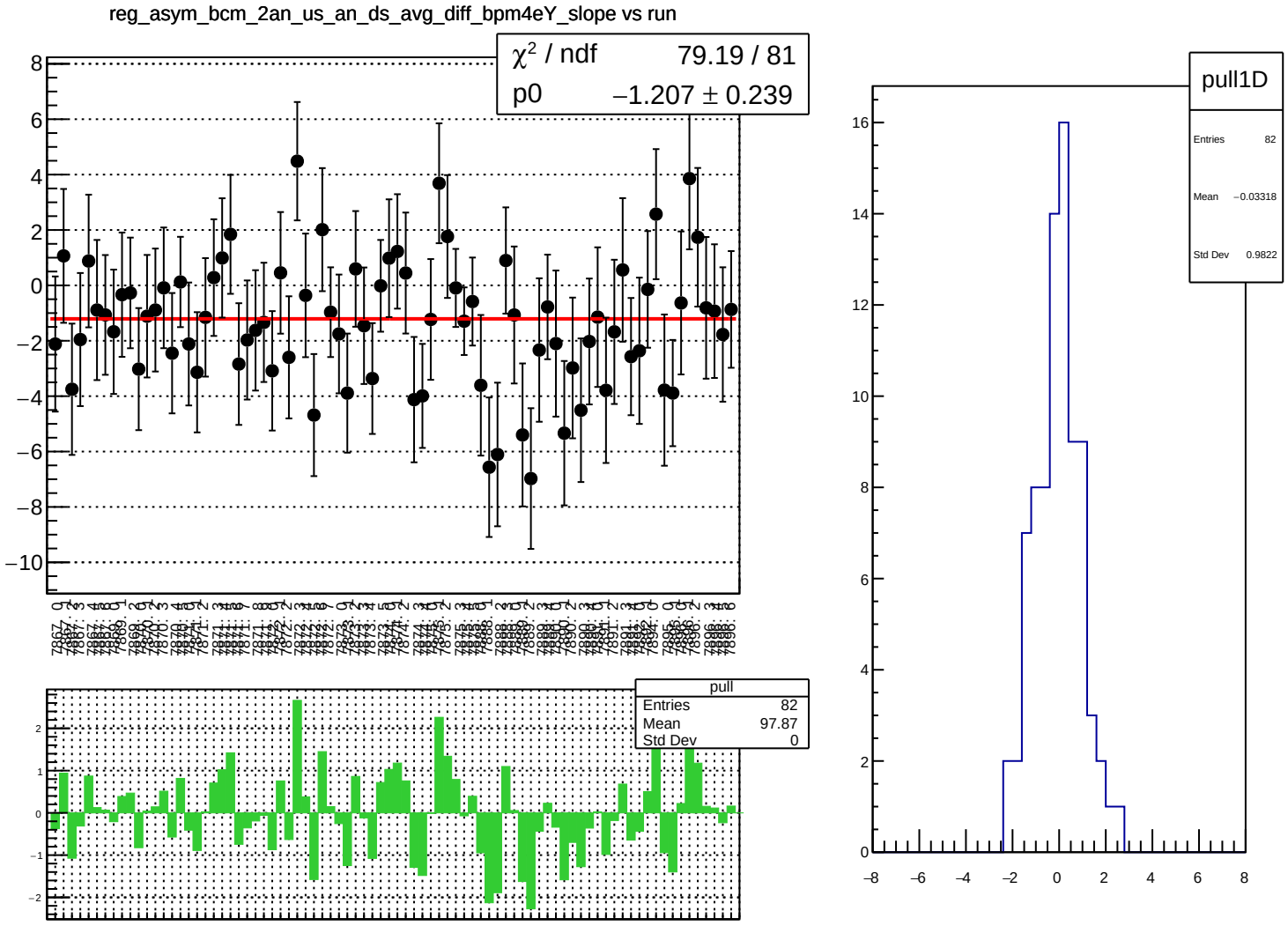

pull1D
Entries 82
Mean −0.01908
Std Dev 1.119

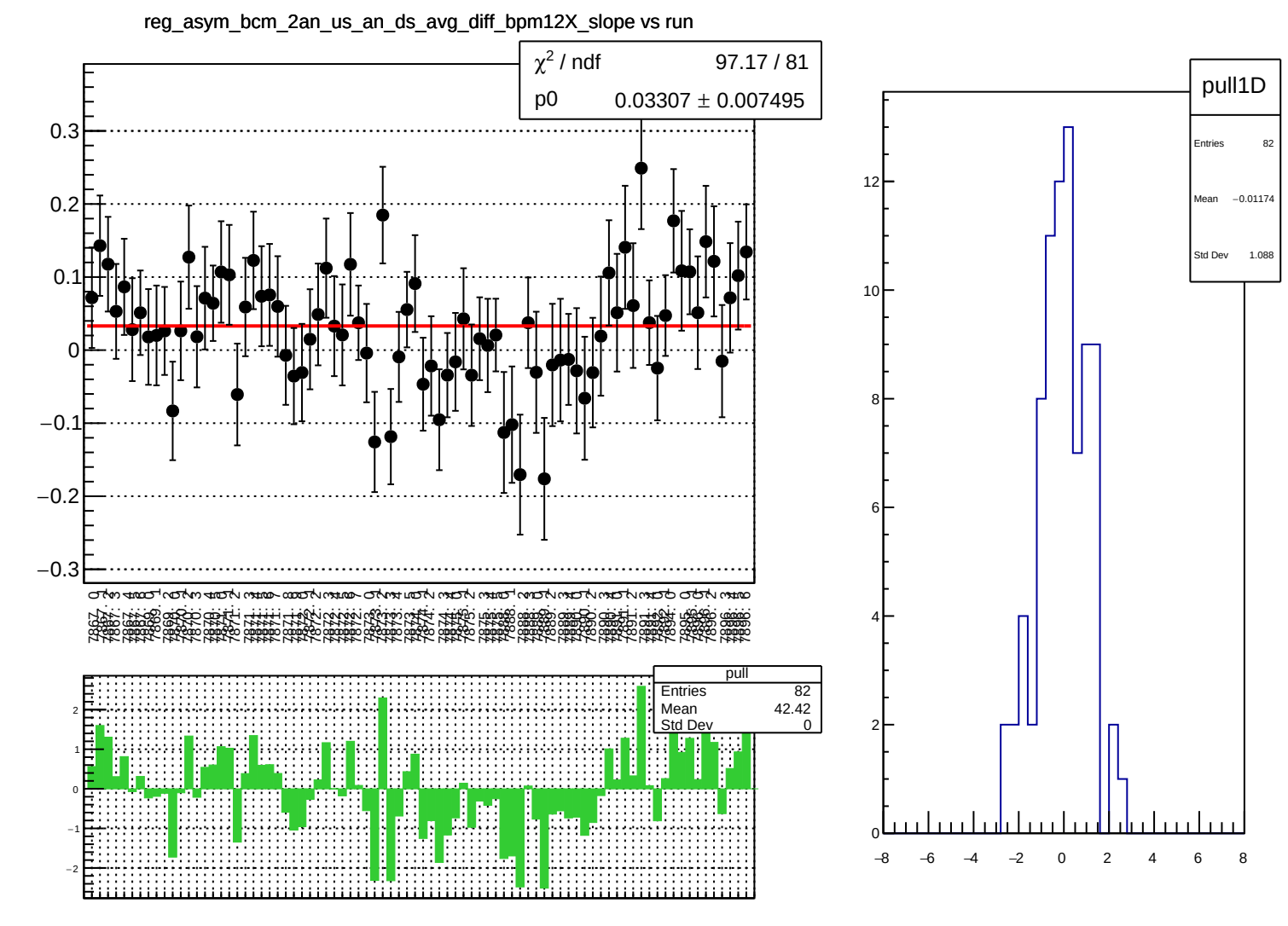

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 156.4 / 81
p0 1.266 ± 0.1839
pull
Entries 82
Mean 43.74
Std Dev 46.91

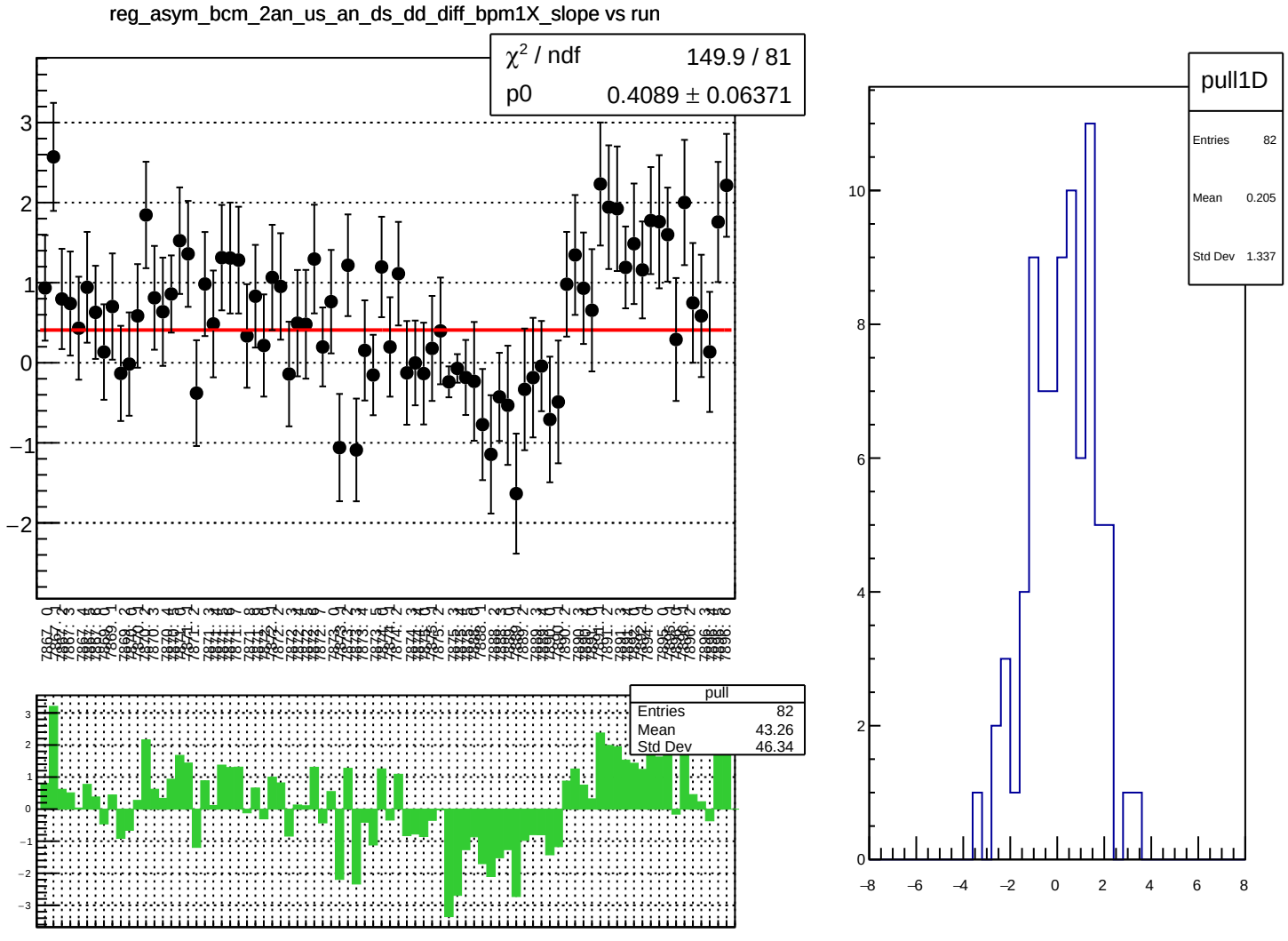

pull1D
Entries 82
Mean 0.2062
Std Dev 1.365

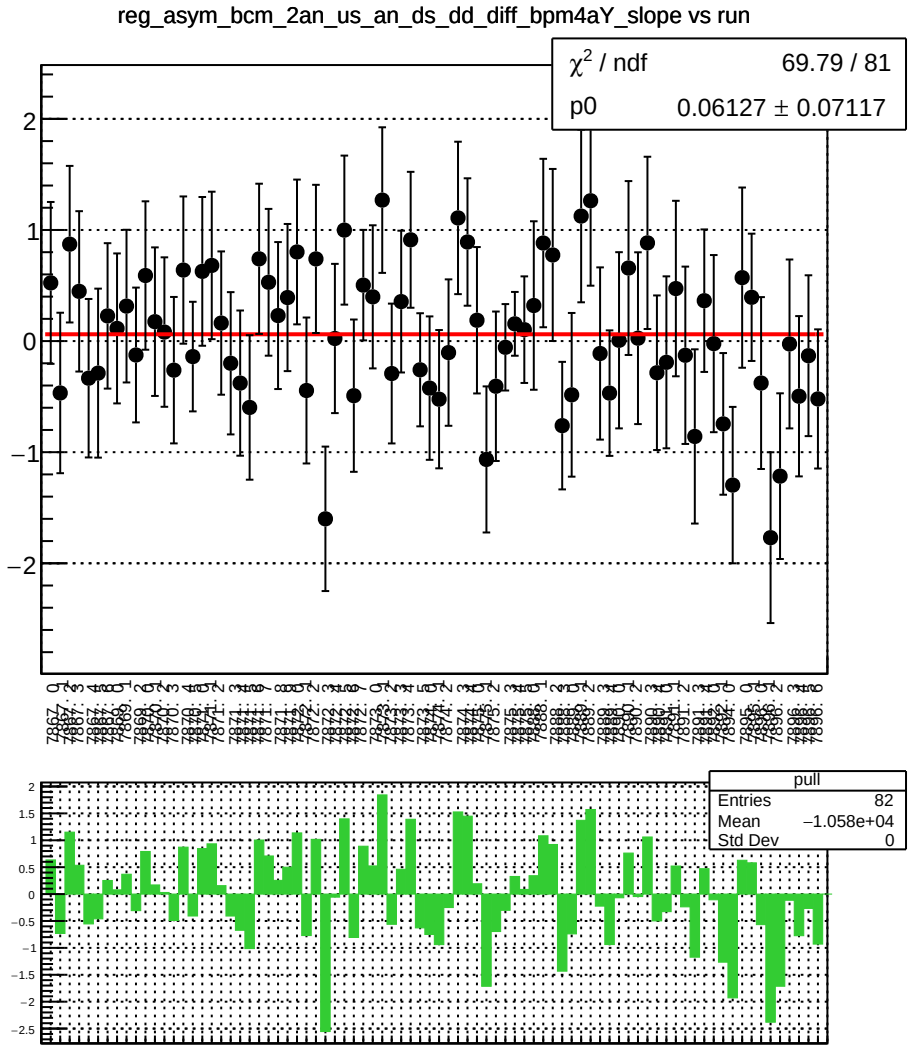

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.67 / 81
p0 0.1911± 0.2055
pull
Entries 82
Mean −1023
Std Dev 0
pull1D
Entries 82
Mean 0.005611
Std Dev 0.9606

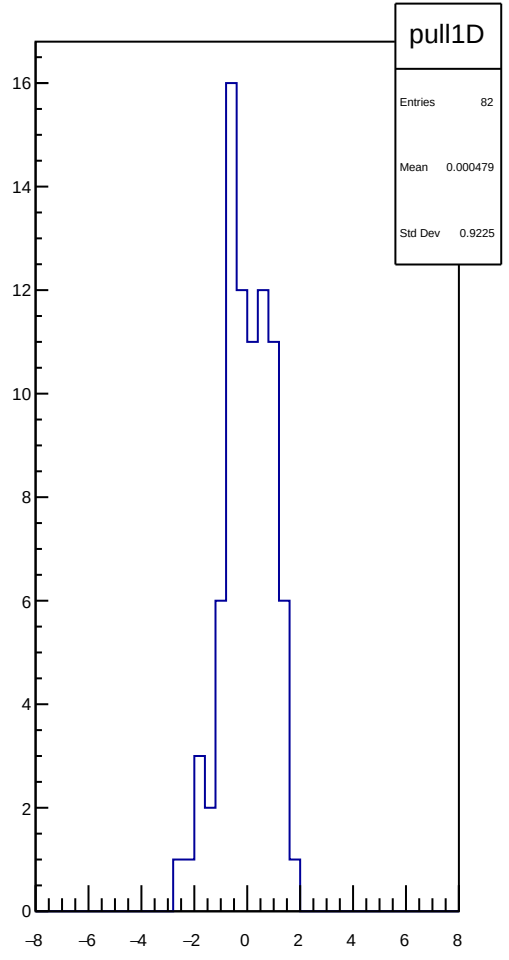

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 162.9 / 81
p0 −1.13 ± 0.1551
pull
Entries 82
Mean 45.44
Std Dev 42.45
pull1D
Entries 82
Mean −0.269
Std Dev 1.384

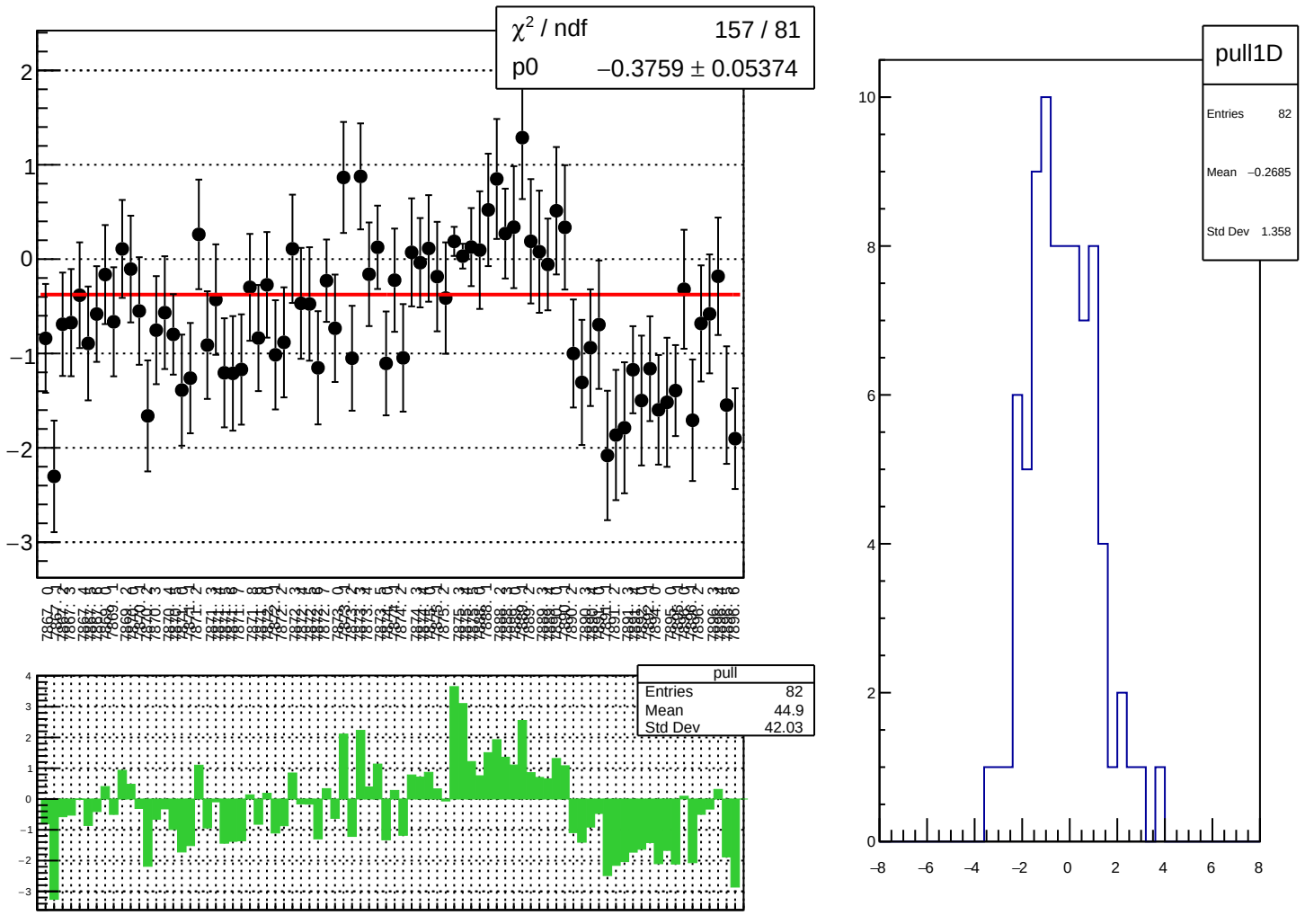

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.19 / 81
p0 −1.207 ± 0.239
pull
Entries 82
Mean 97.87
Std Dev 0
pull1D
Entries 82
Mean −0.03318
Std Dev 0.9822

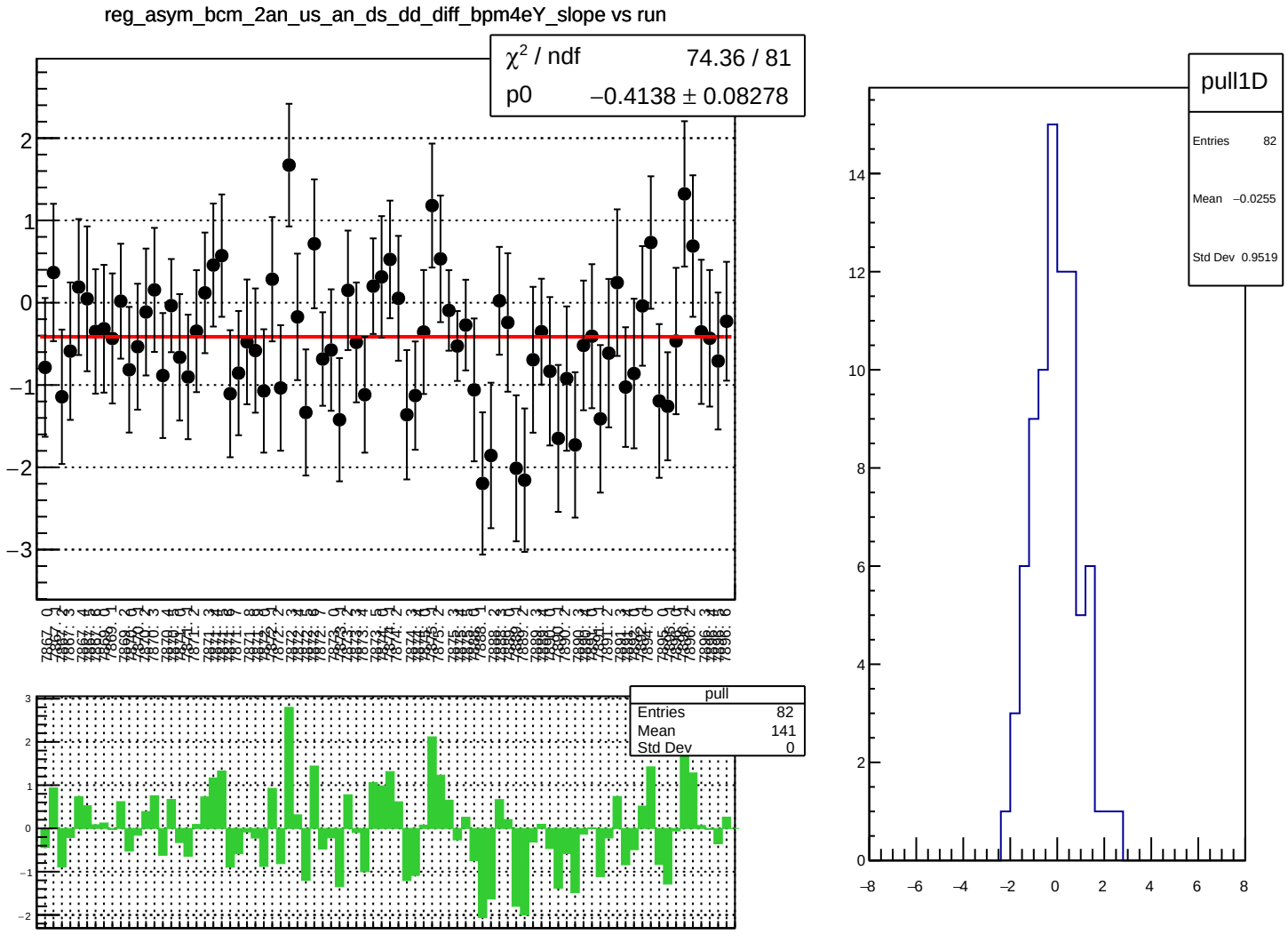

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 97.17 / 81
p0 0.03307 ± 0.007495
pull
Entries 82
Mean 42.42
Std Dev 0
pull1D
Entries 82
Mean −0.01174
Std Dev 1.088

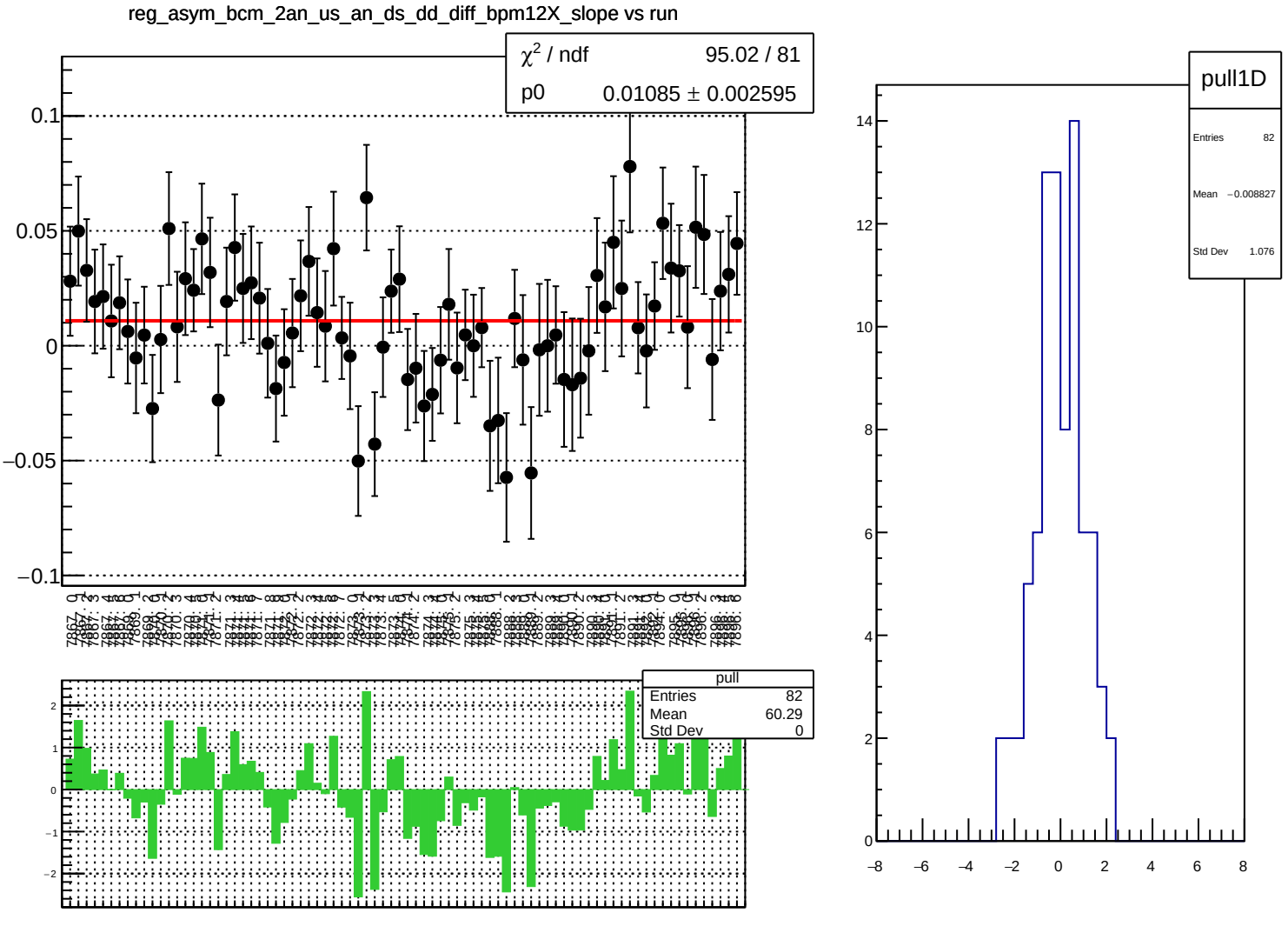

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 149.9 / 81
p0 0.4089 ± 0.06371
pull
Entries 82
Mean 43.26
Std Dev 46.34
pull1D
Entries 82
Mean 0.205
Std Dev 1.337

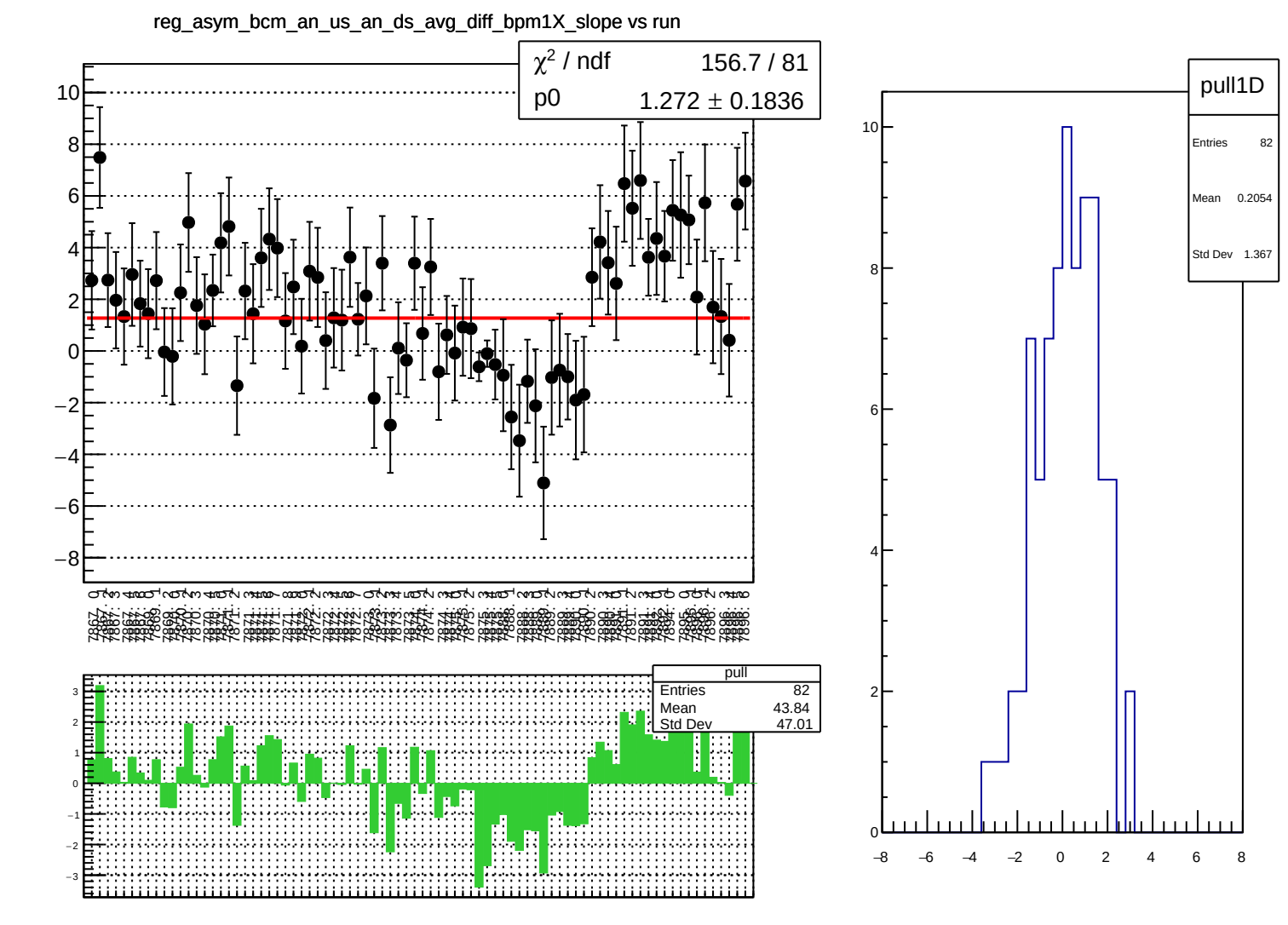

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.79 / 81
p0 0.06127 ± 0.07117
pull
Entries 82
Mean −1.058e+04
Std Dev 0

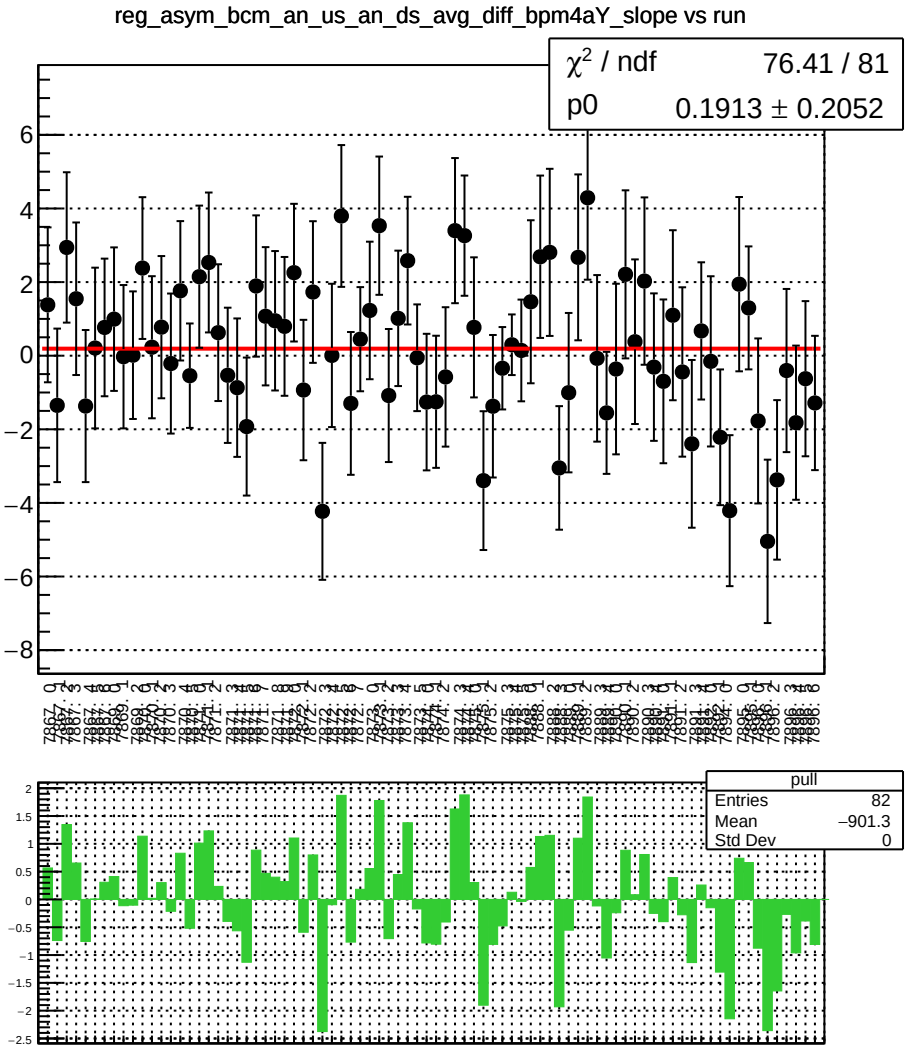

pull1D
Entries 82
Mean 0.000479
Std Dev 0.9225

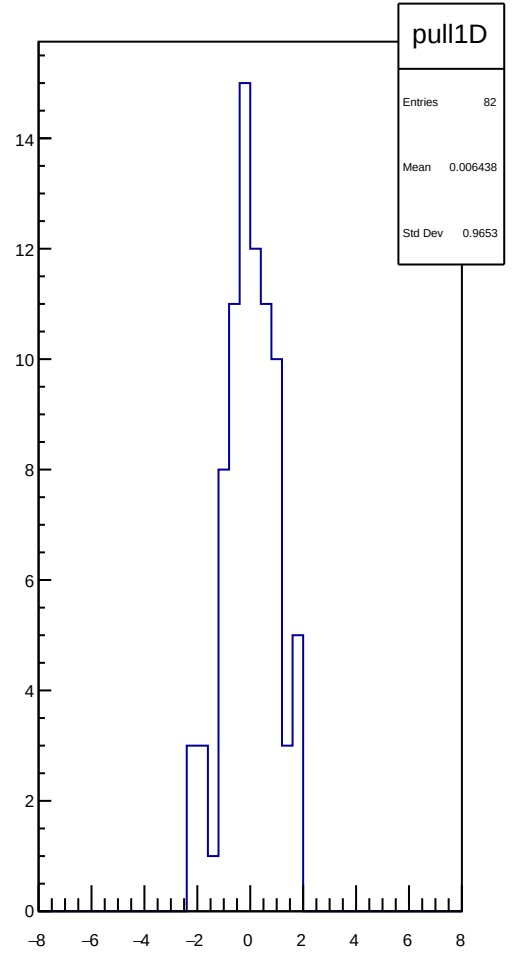

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 157 / 81
p0 −0.3759 ± 0.05374
pull
Entries 82
Mean 44.9
Std Dev 42.03
pull1D
Entries 82
Mean −0.2685
Std Dev 1.358

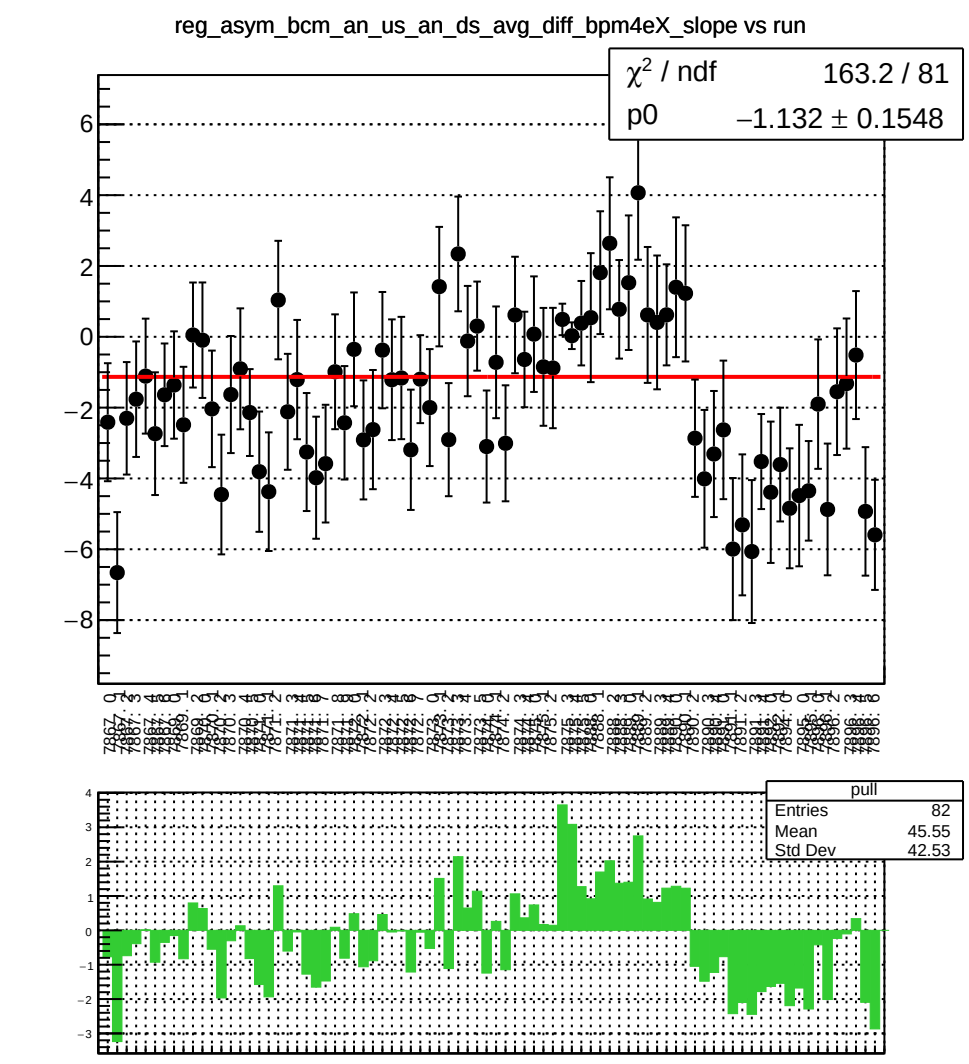

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.36 / 81
p0 −0.4138 ± 0.08278
pull
Entries 82
Mean 141
Std Dev 0
pull1D
Entries 82
Mean −0.0255
Std Dev 0.9519

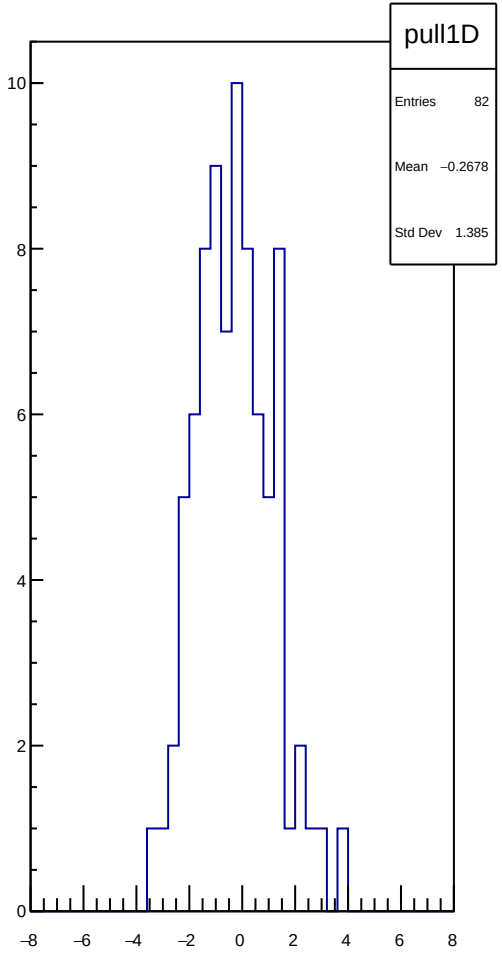

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 95.02 / 81
p0 0.01085 ± 0.002595
pull
Entries 82
Mean 60.29
Std Dev 0
pull1D
Entries 82
Mean −0.008827
Std Dev 1.076

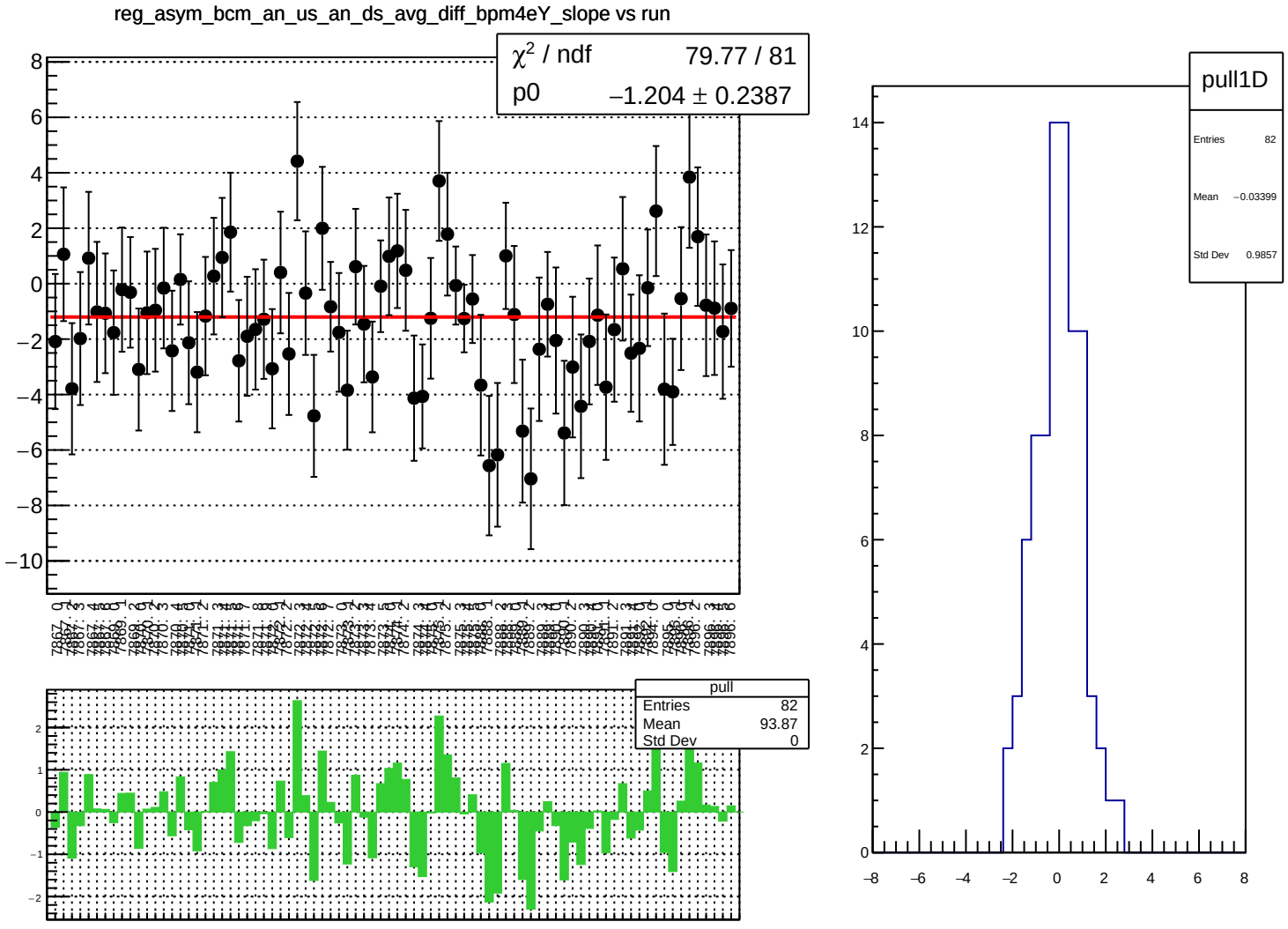

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 156.7 / 81
p0 1.272 ± 0.1836
pull
Entries 82
Mean 43.84
Std Dev 47.01
pull1D
Entries 82
Mean 0.2054
Std Dev 1.367

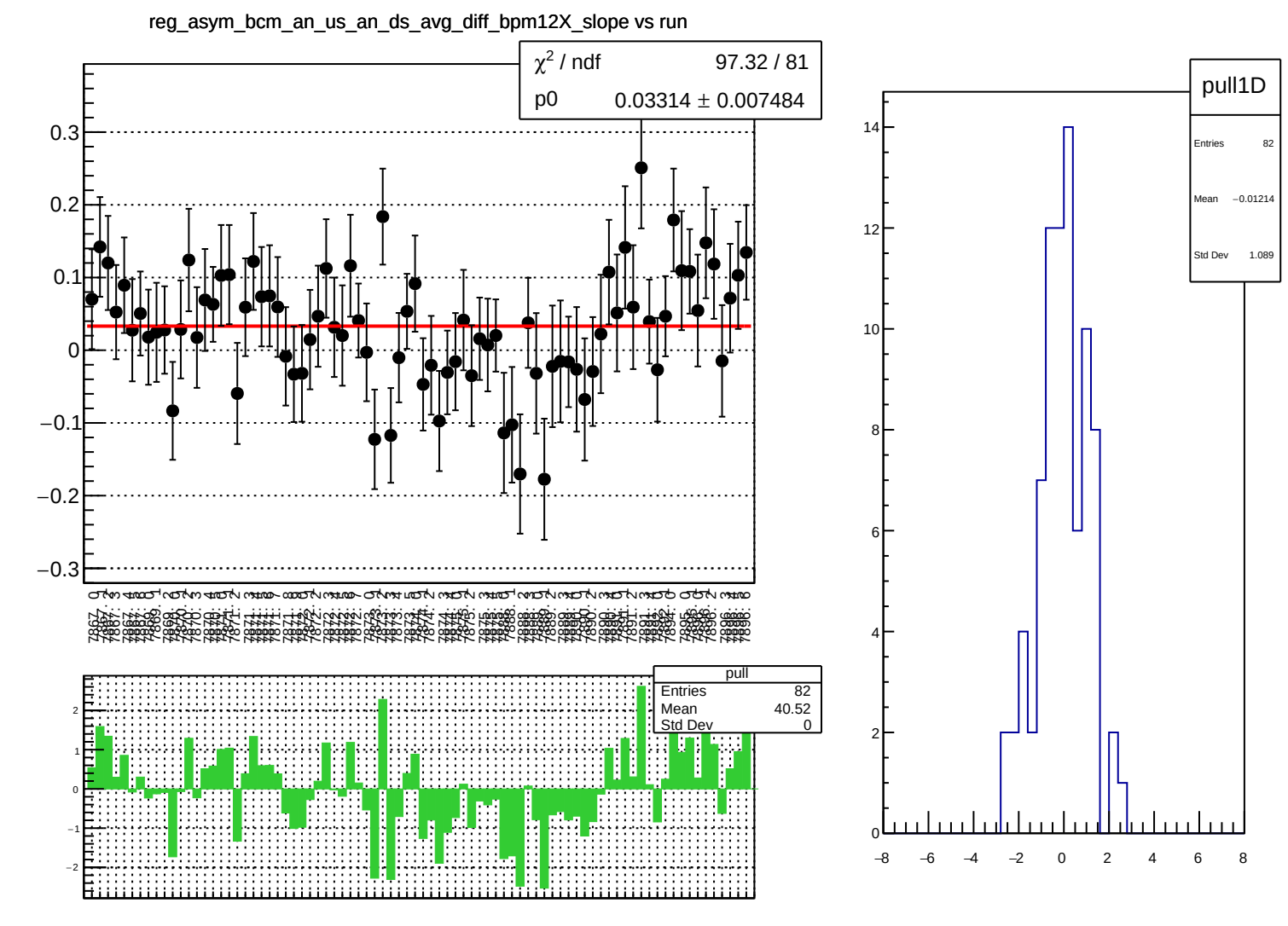

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.41 / 81
p0 0.1913 ± 0.2052
pull
Entries 82
Mean −901.3
Std Dev 0

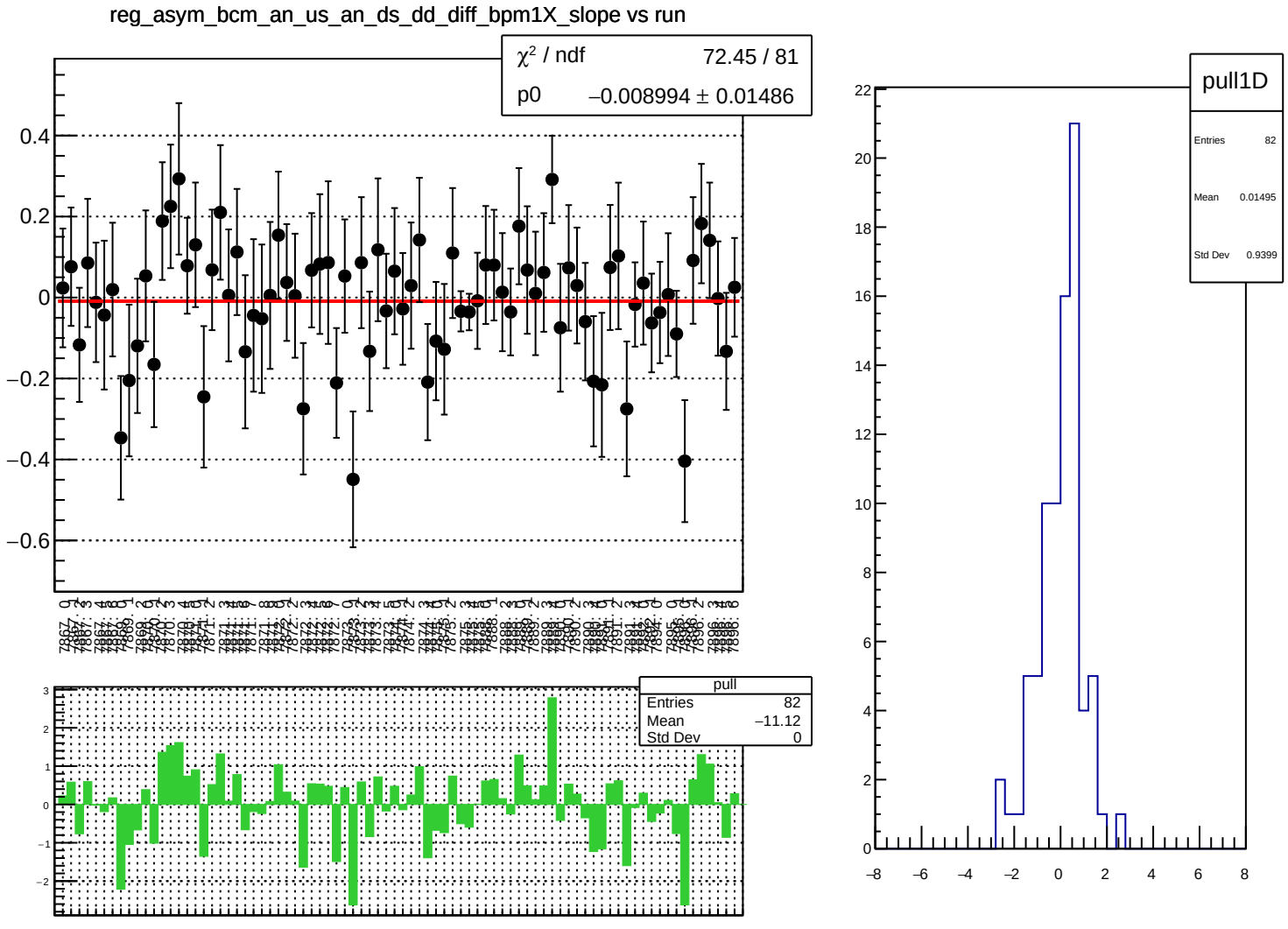

pull1D
Entries 82
Mean 0.006438
Std Dev 0.9653

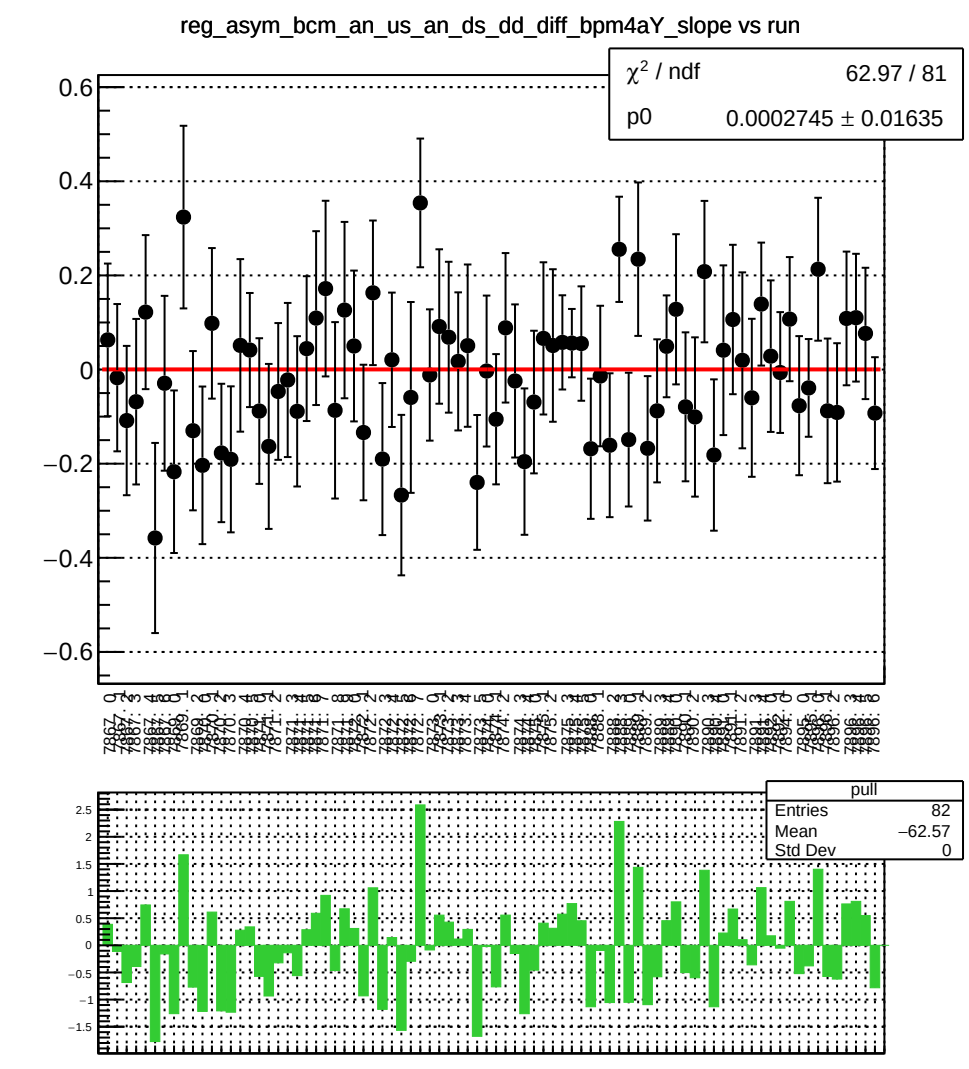

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 163.2 / 81
p0 −1.132 ± 0.1548
pull
Entries 82
Mean 45.55
Std Dev 42.53

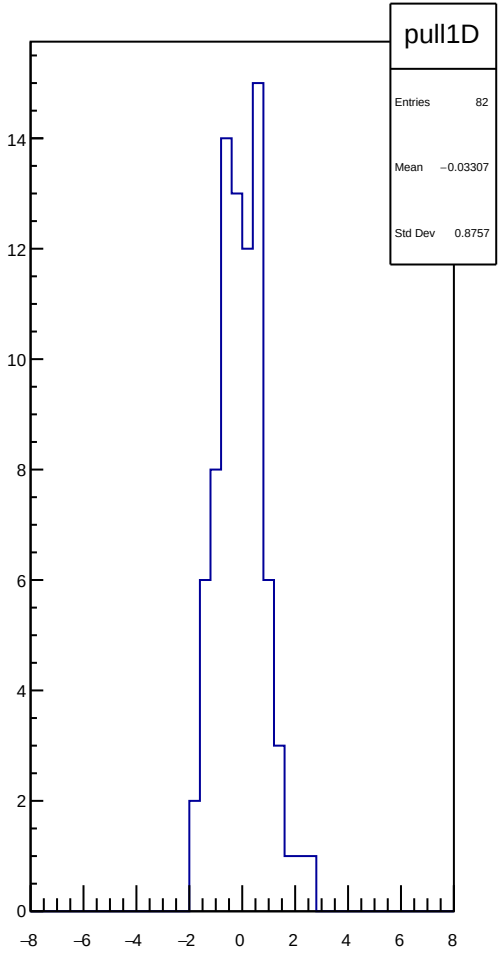

pull1D
Entries 82
Mean −0.2678
Std Dev 1.385

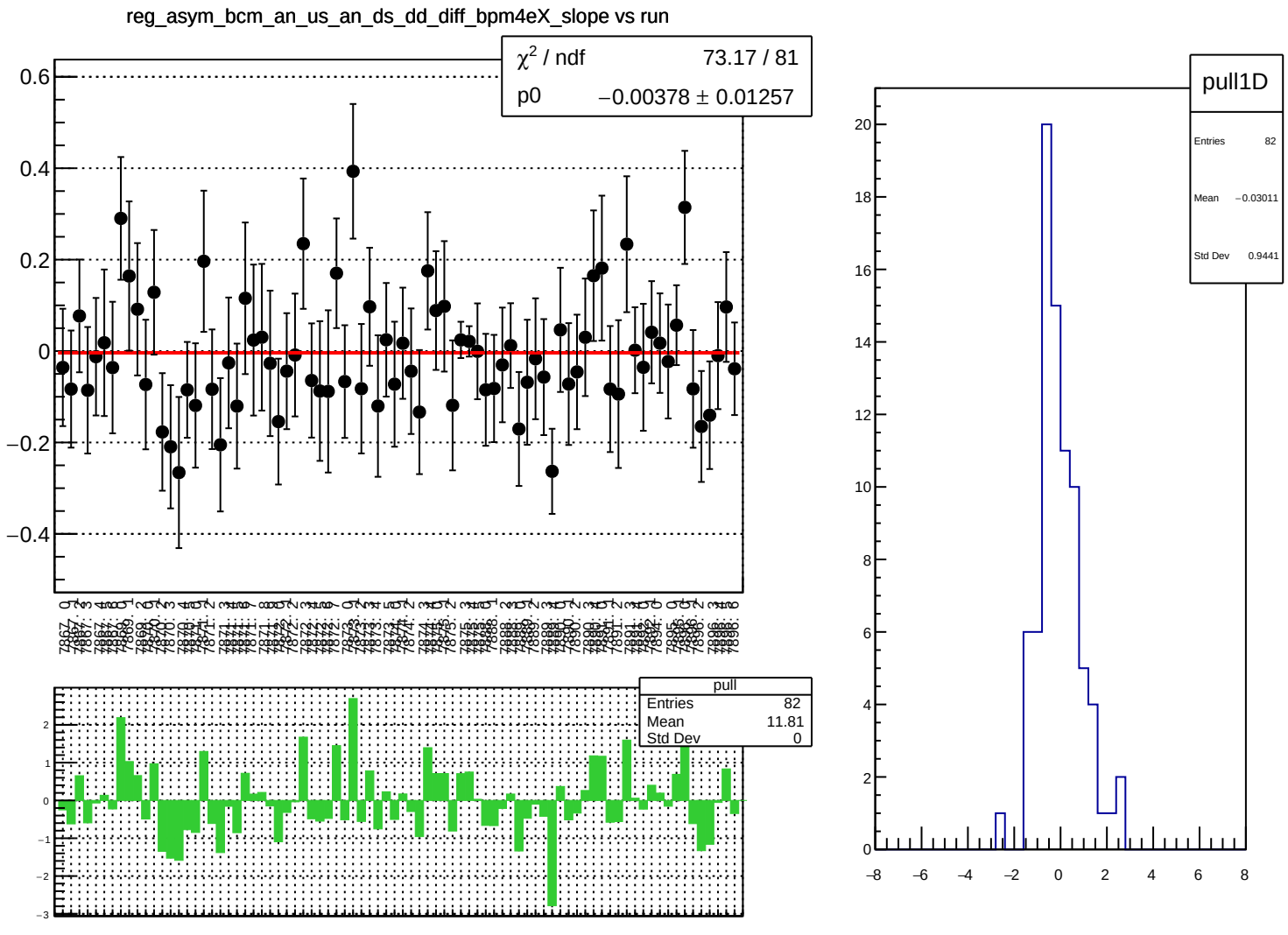

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.77 / 81
p0 −1.204 ± 0.2387
pull
Entries 82
Mean 93.87
Std Dev 0
pull1D
Entries 82
Mean −0.03399
Std Dev 0.9857

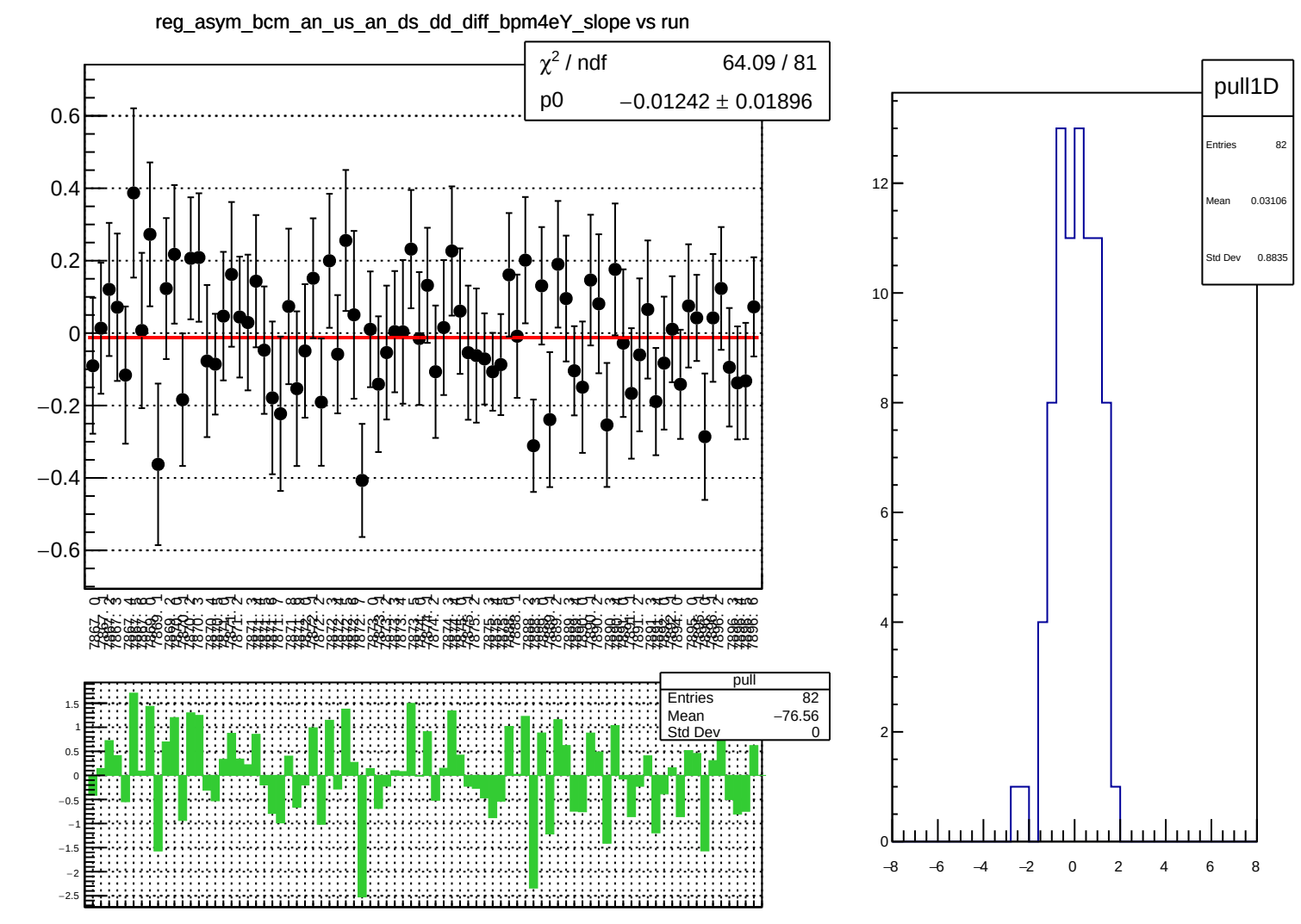

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 97.32 / 81
p0 0.03314 ± 0.007484
pull
Entries 82
Mean 40.52
Std Dev 0
pull1D
Entries 82
Mean −0.01214
Std Dev 1.089

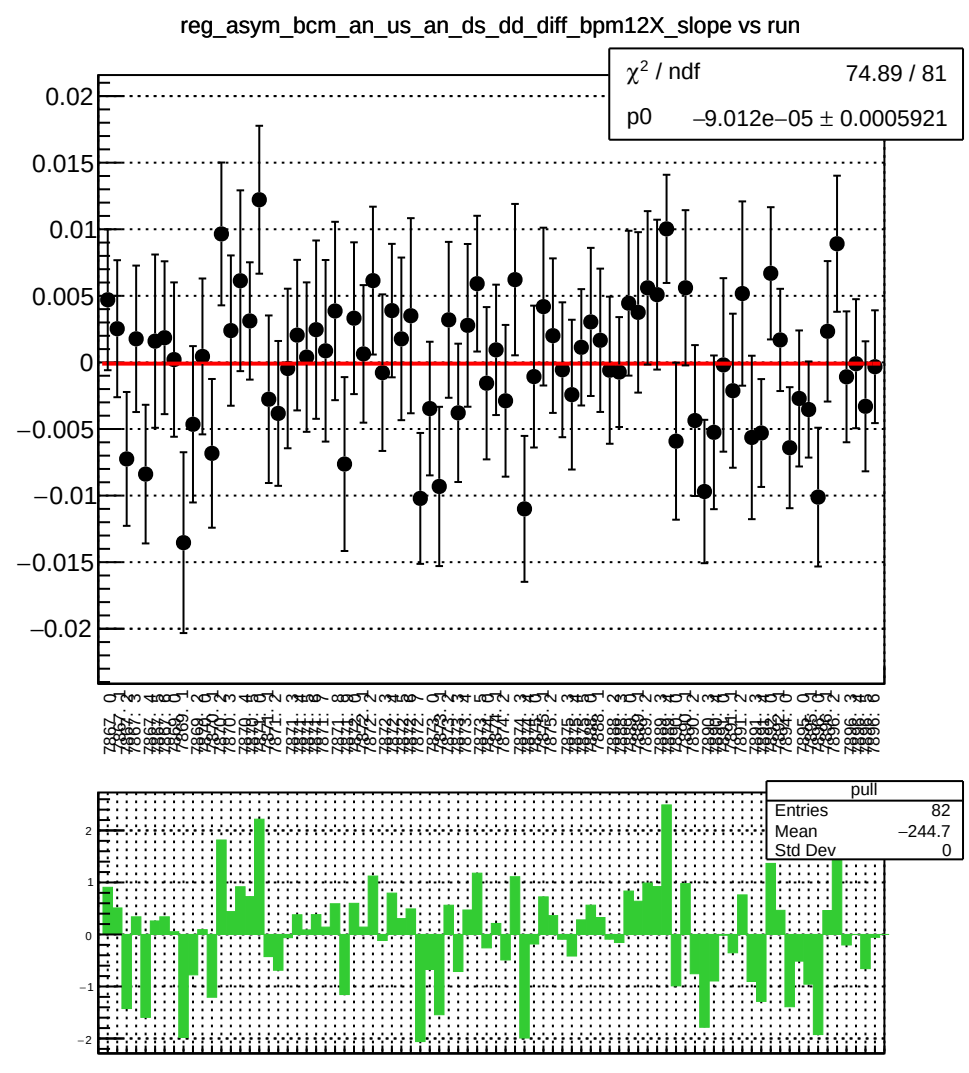

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 72.45 / 81
p0 −0.008994 ± 0.01486
pull
Entries 82
Mean −11.12
Std Dev 0
pull1D
Entries 82
Mean 0.01495
Std Dev 0.9399

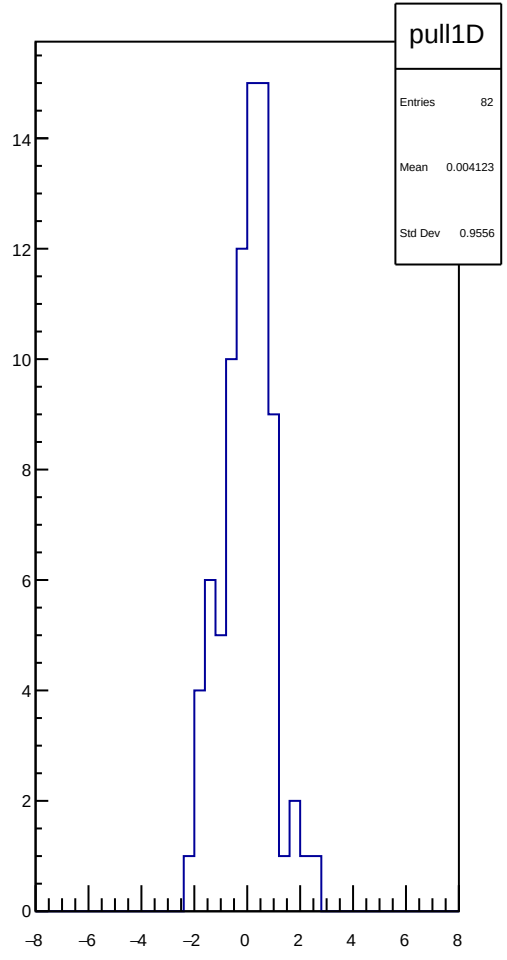

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.97 / 81
p0 0.0002745 ± 0.01635
pull
Entries 82
Mean −62.57
Std Dev 0

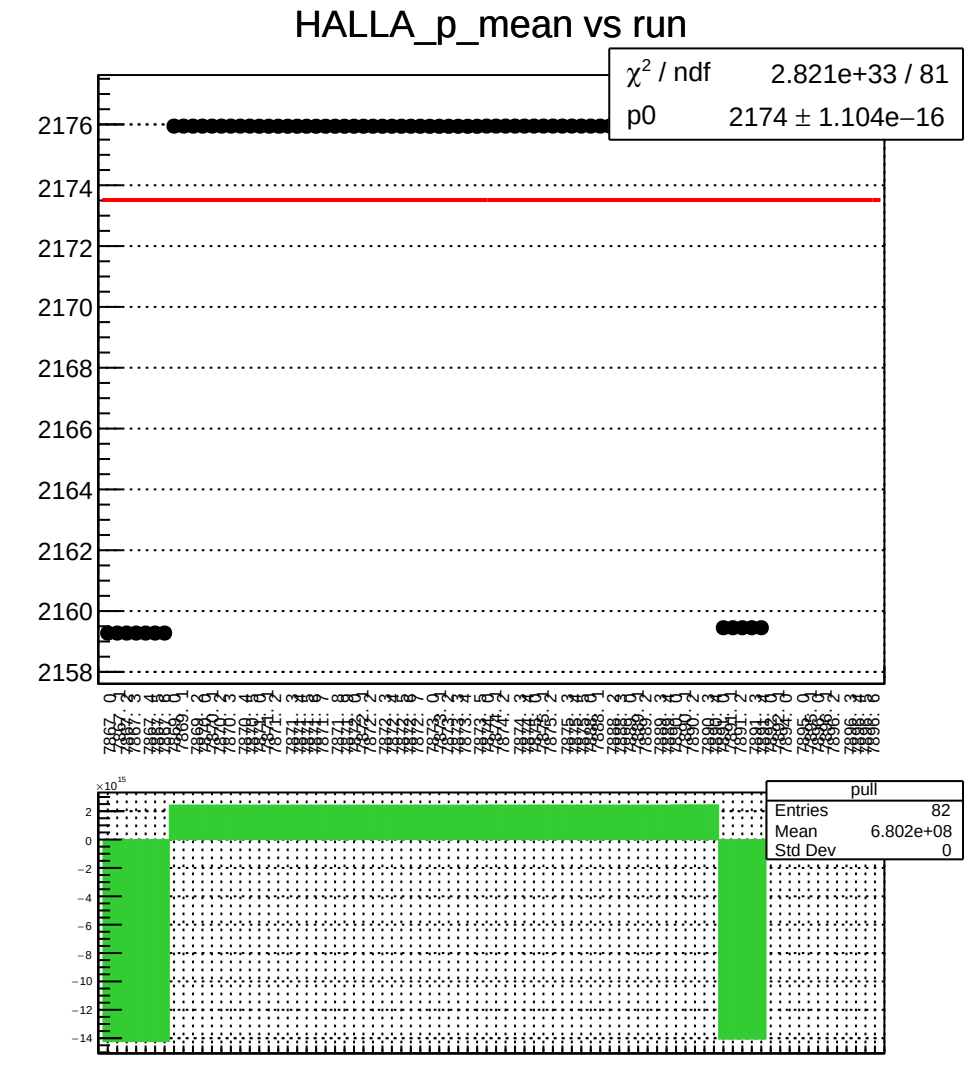

pull1D
Entries 82
Mean −0.03307
Std Dev 0.8757

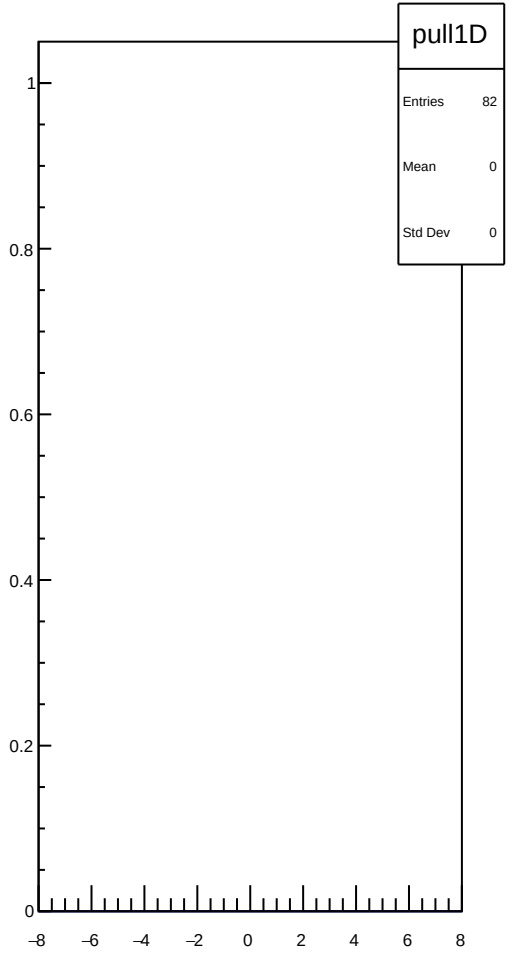

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.17 / 81
p0 −0.00378 ± 0.01257
pull
Entries 82
Mean 11.81
Std Dev 0
pull1D
Entries 82
Mean −0.03011
Std Dev 0.9441

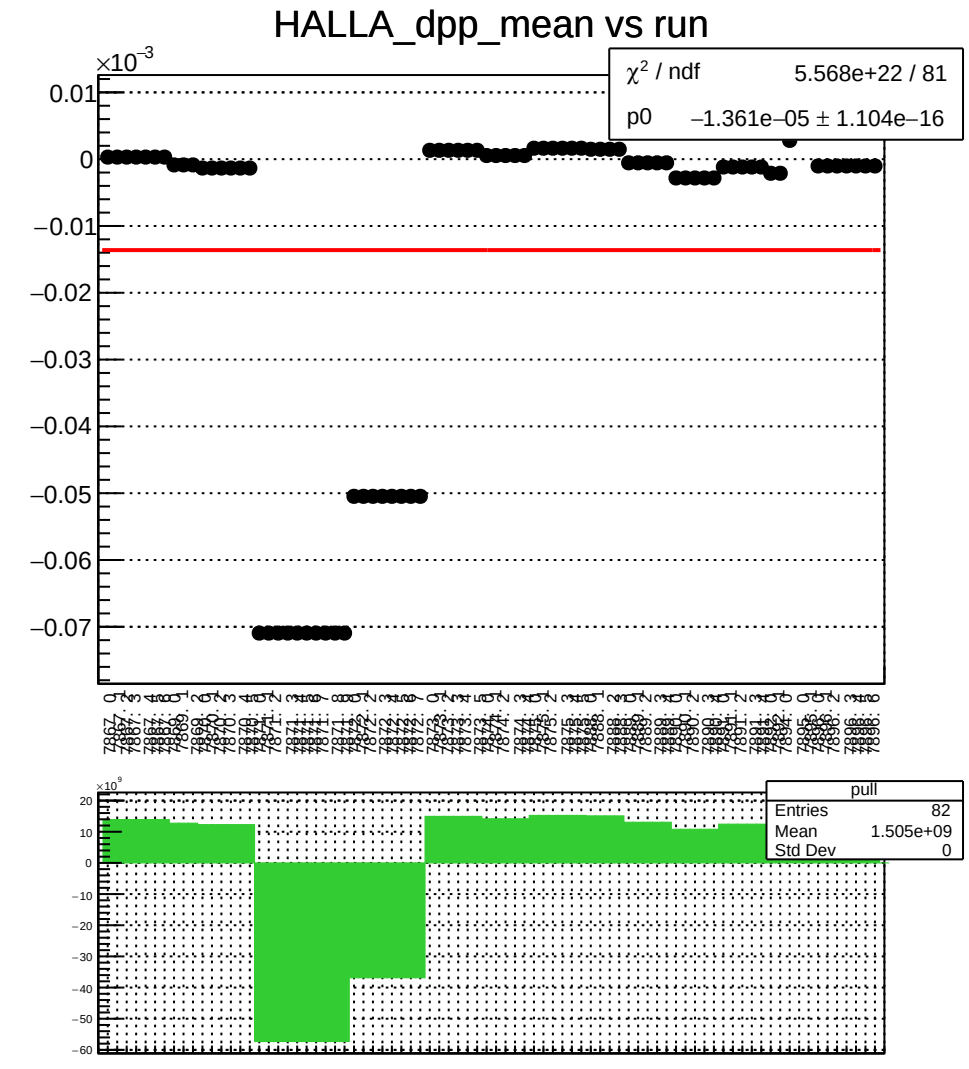

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.09 / 81
p0 −0.01242 ± 0.01896
pull
Entries 82
Mean −76.56
Std Dev 0
pull1D
Entries 82
Mean 0.03106
Std Dev 0.8835

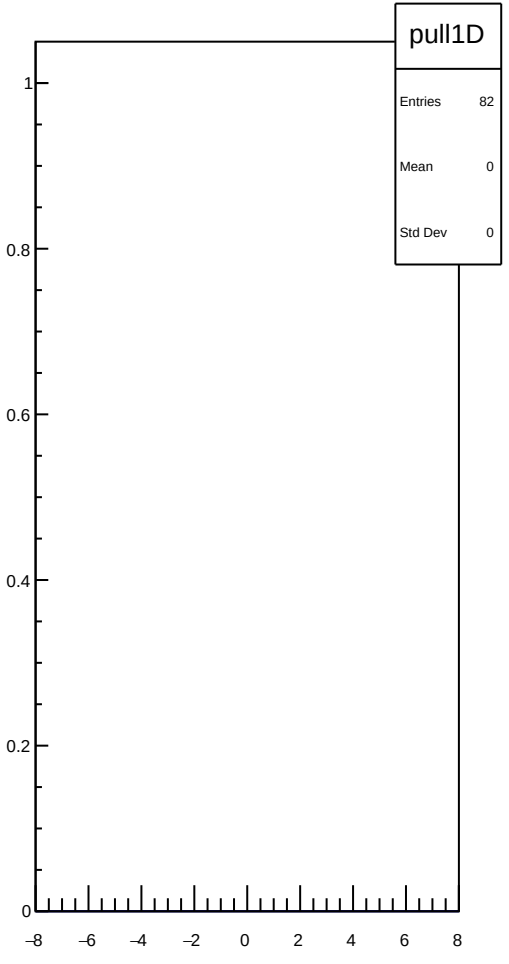

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 74.89 / 81
p0 −9.012e−05 ± 0.0005921
pull
Entries 82
Mean −244.7
Std Dev 0

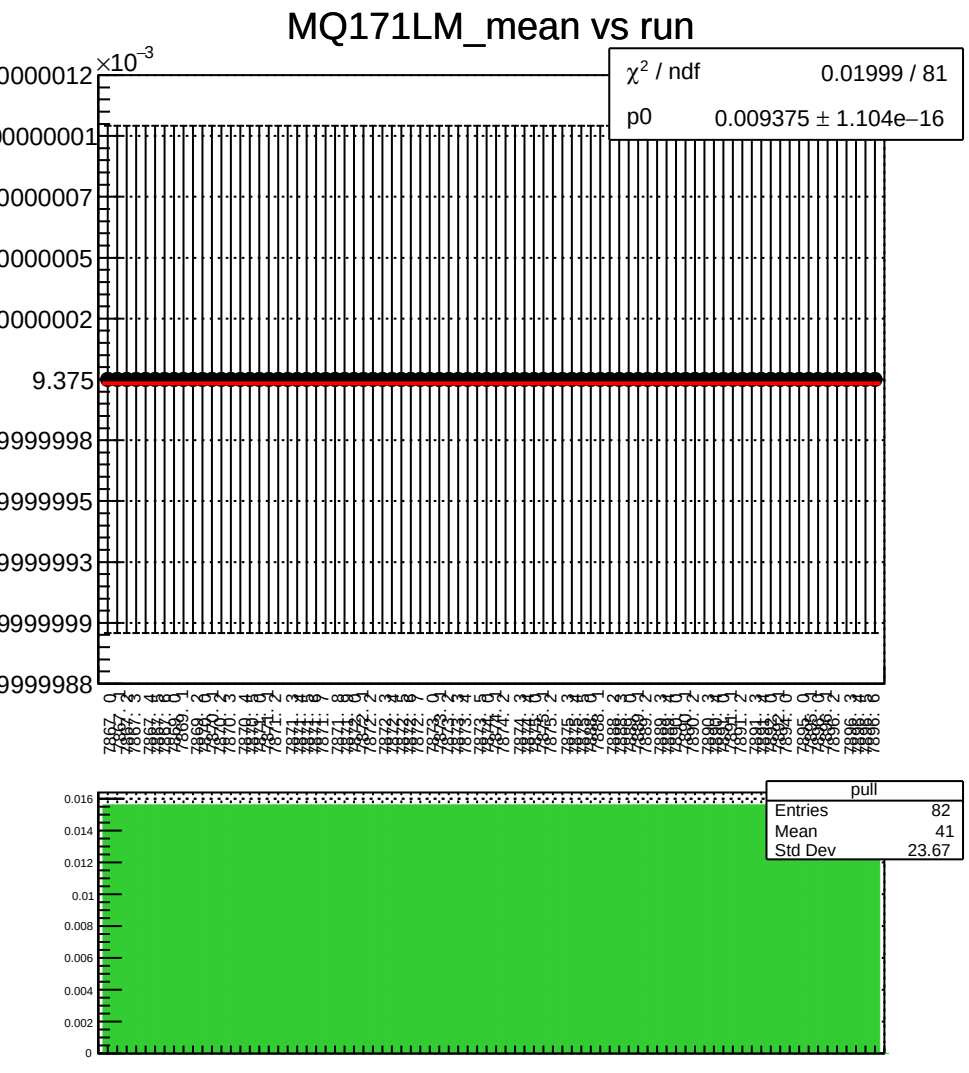

pull1D
Entries 82
Mean 0.004123
Std Dev 0.9556

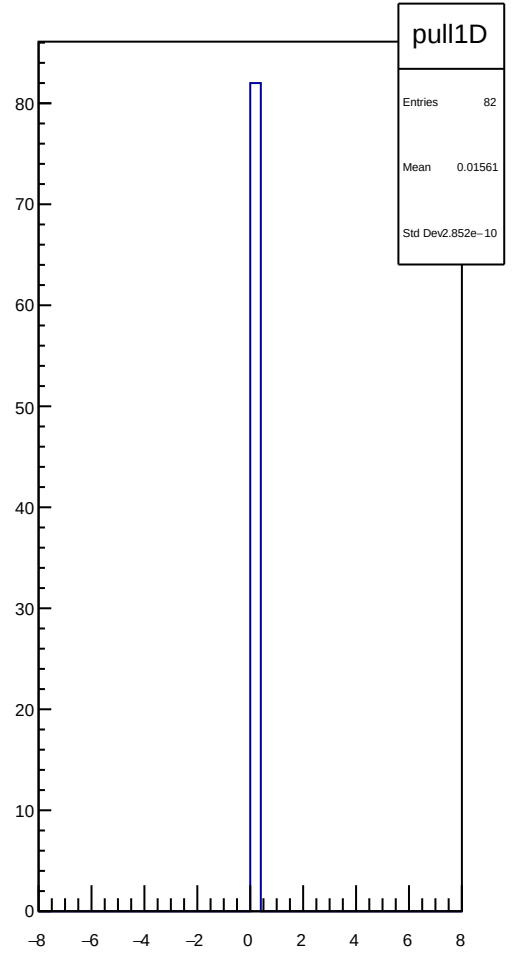

HALLA_p_mean vs run
χ² / ndf 2.821e+33 / 81
p0 2174 ± 1.104e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 82
Mean 6.802e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

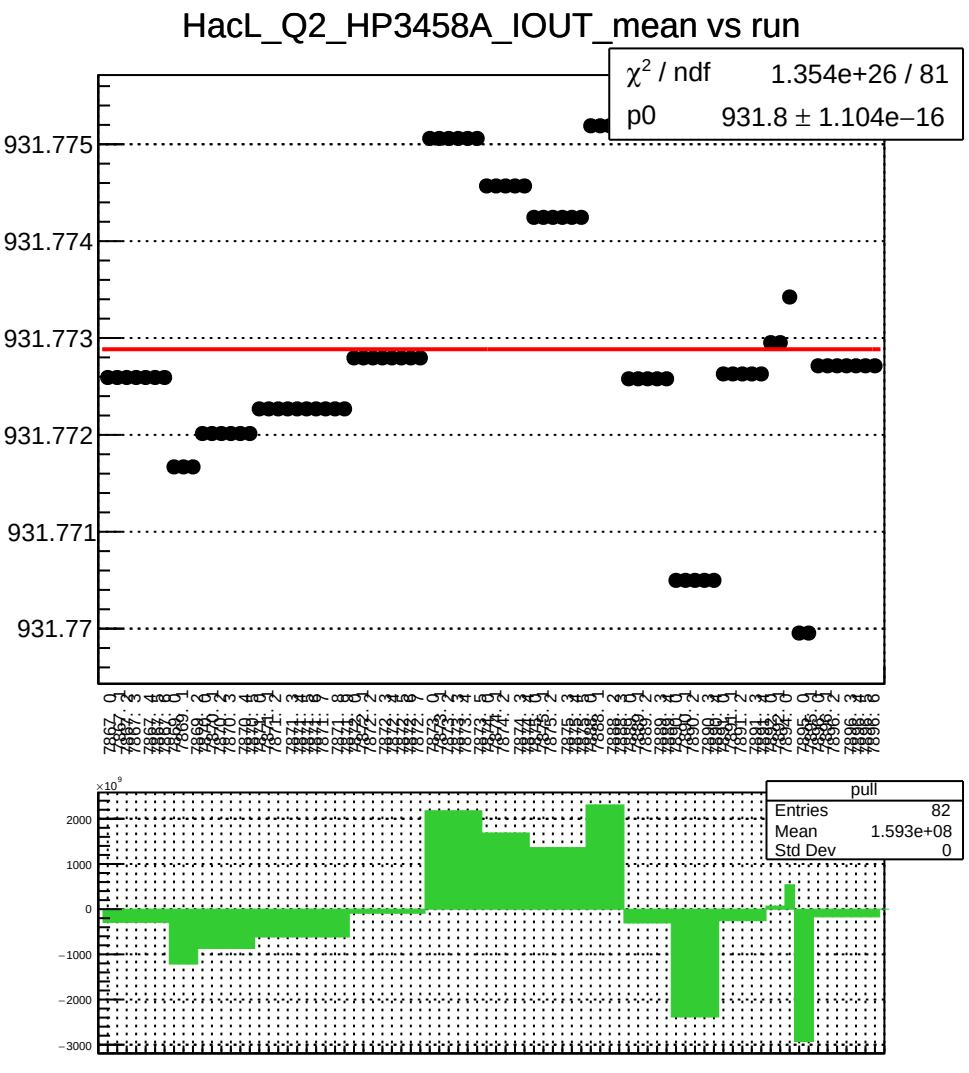

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

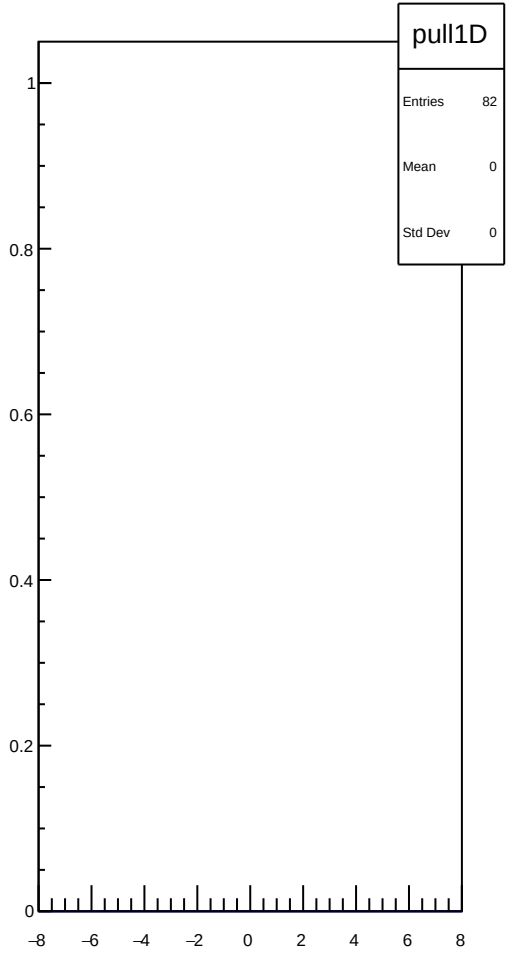

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 5.568e+22 / 81
p0 −1.361e−05 ± 1.104e−16
pull
Entries 82
Mean 1.505e+09
Std Dev 0

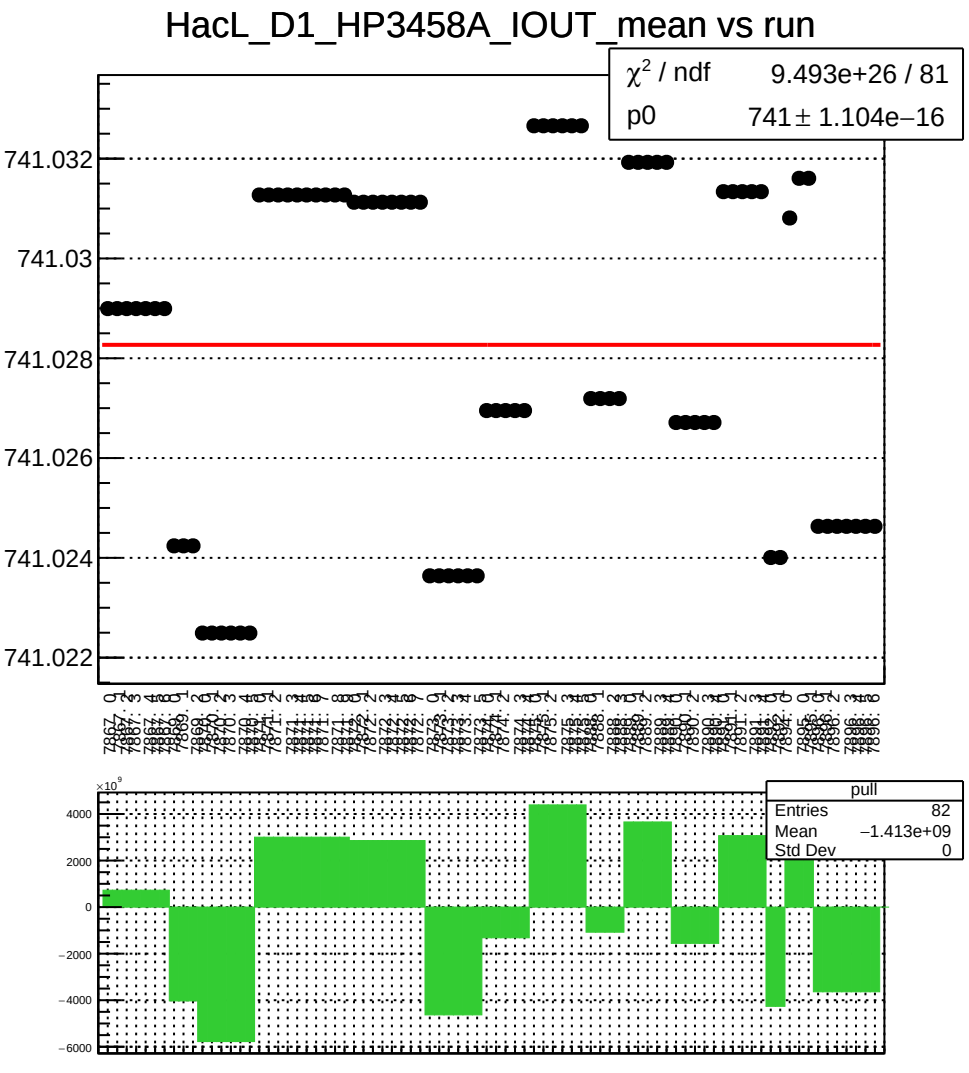

pull1D
Entries 82
Mean 0
Std Dev 0

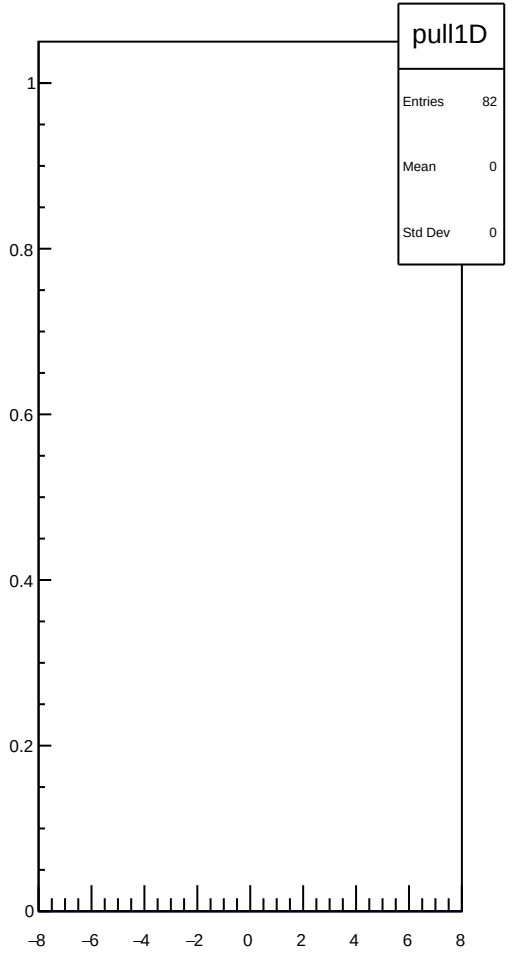

MQ171LM_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67

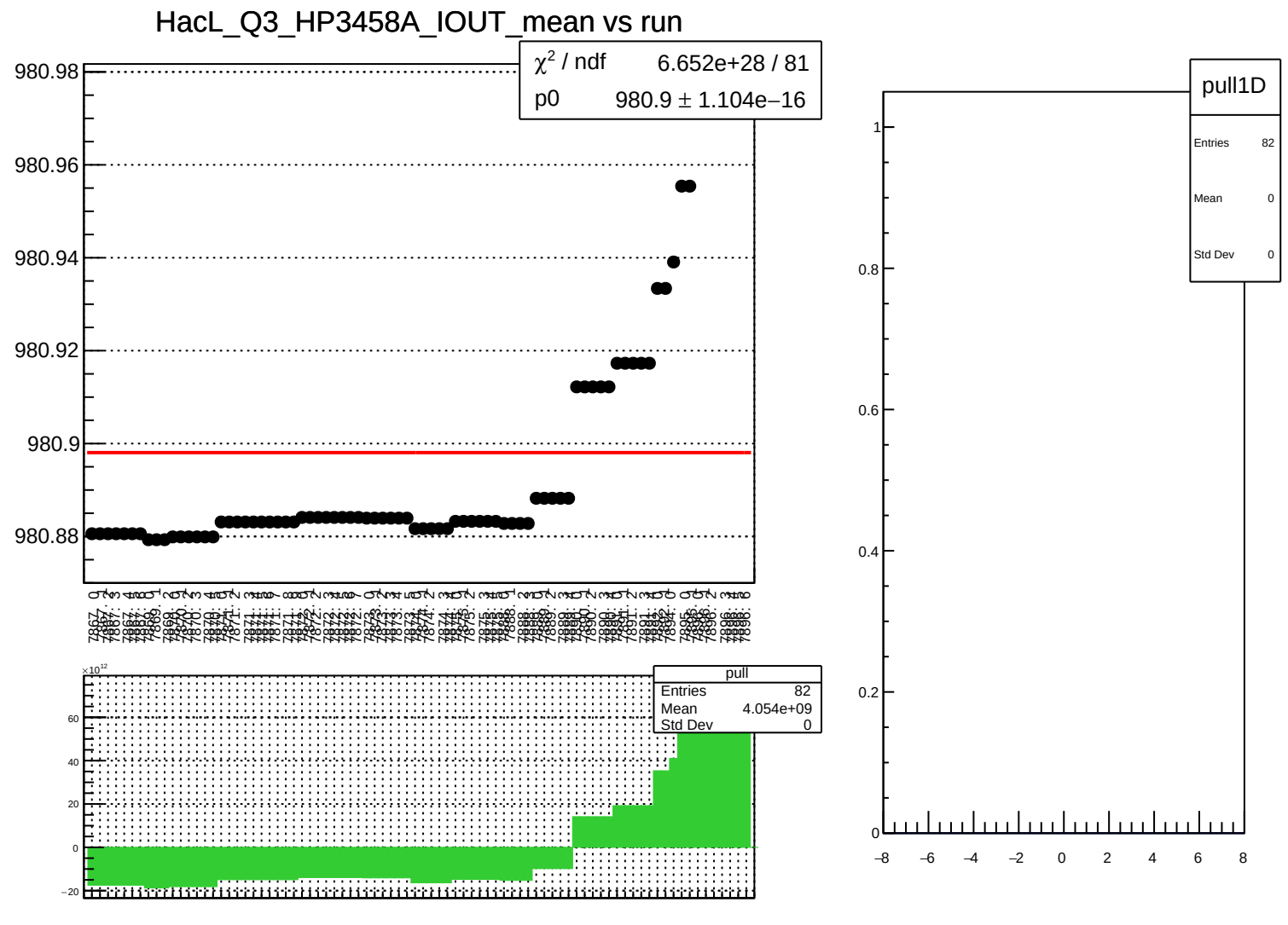

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

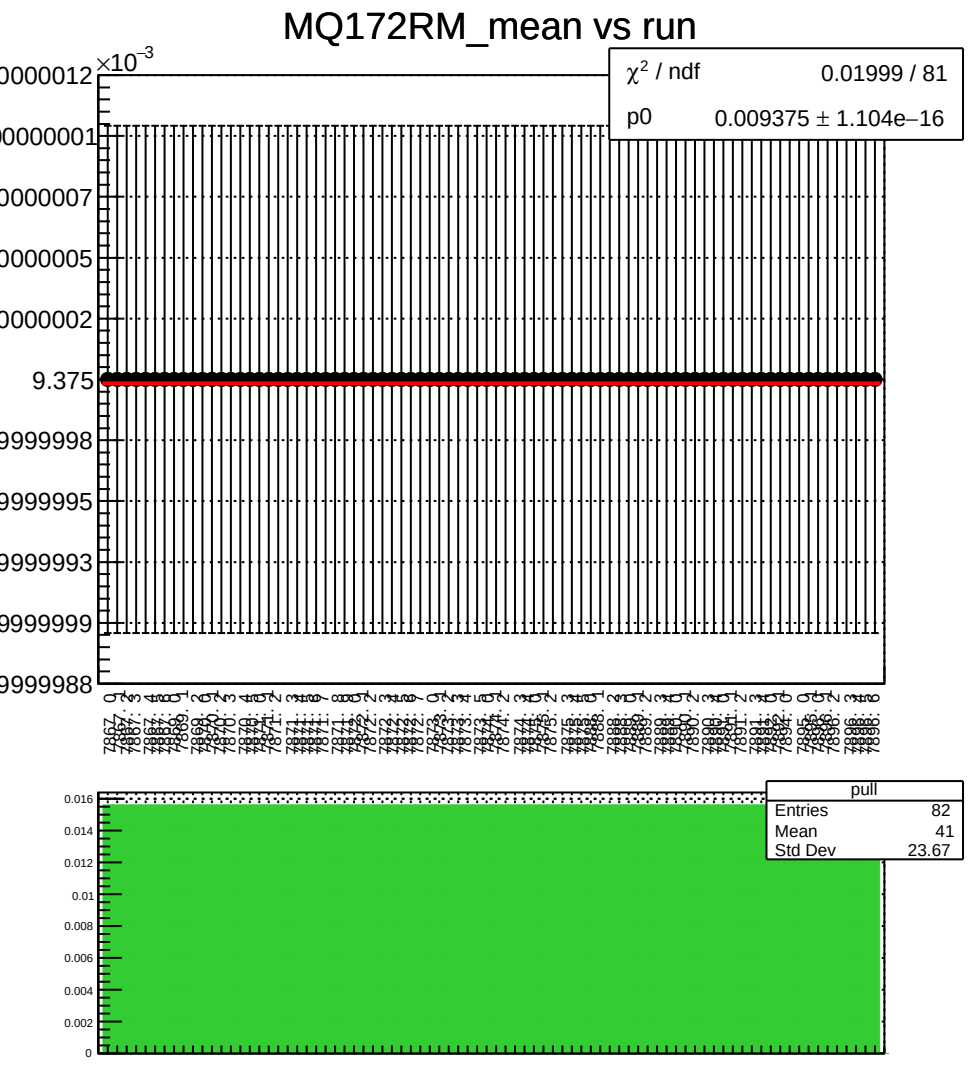

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.354e+26 / 81
p0 931.8 ± 1.104e−16
931.775
931.774
931.773
931.772
931.771
931.77
pull
Entries 82
Mean 1.593e+08
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000

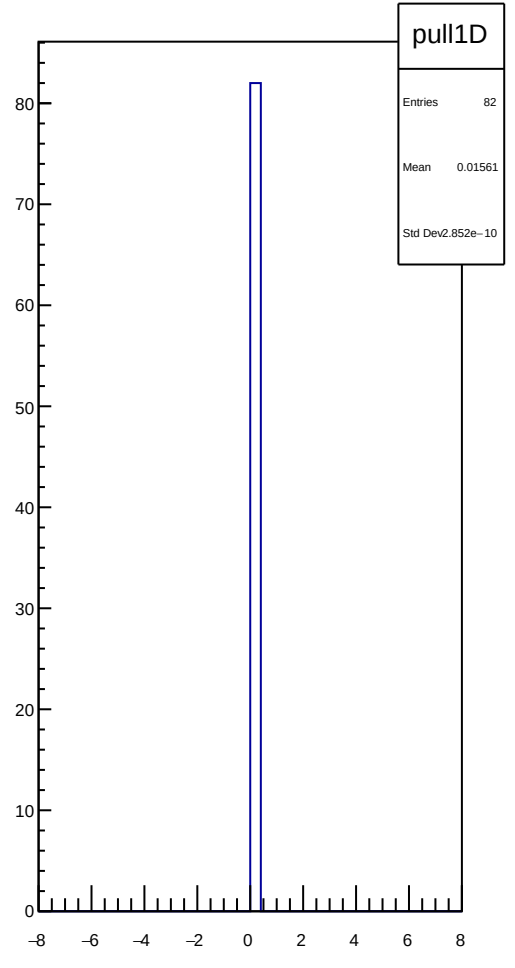

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

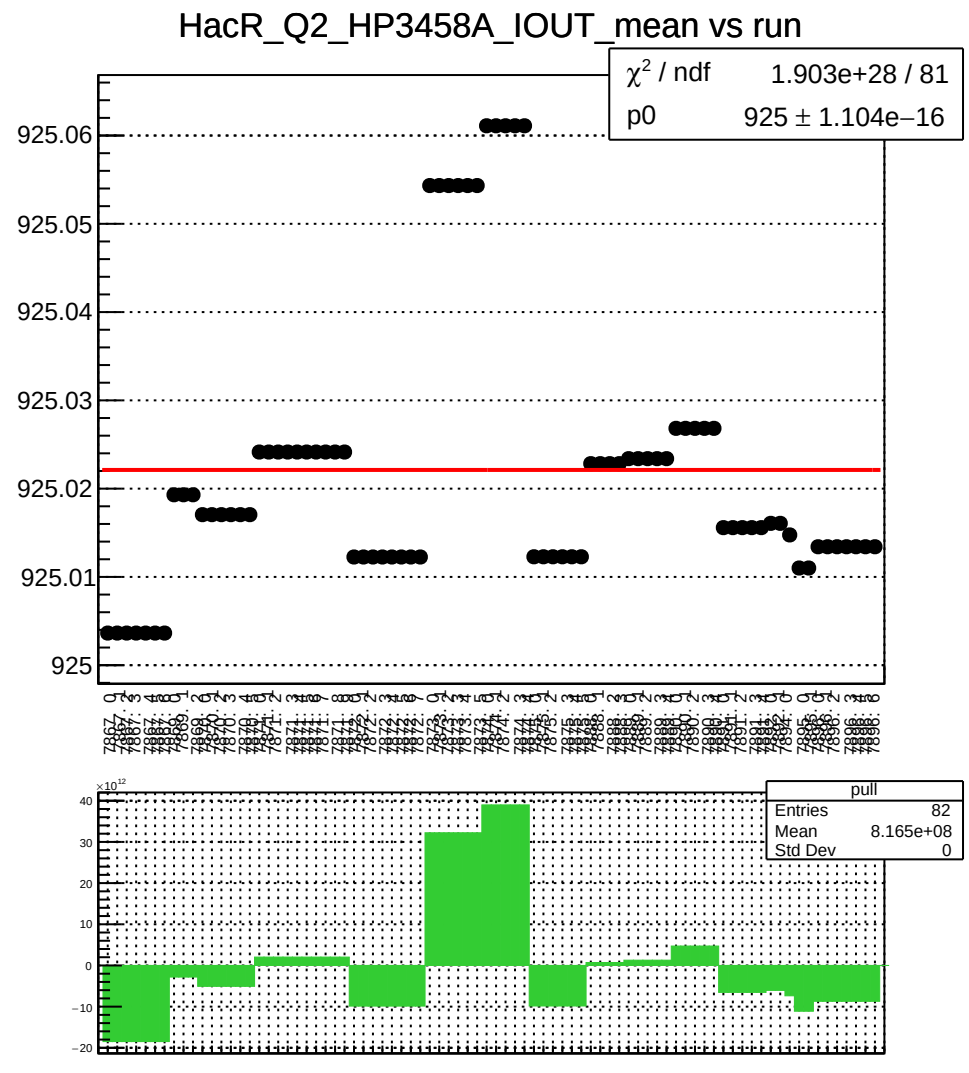

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.493e+26 / 81
p0 741 ± 1.104e−16
741.032
741.03
741.028
741.026
741.024
741.022
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1.413e+09
Std Dev 0

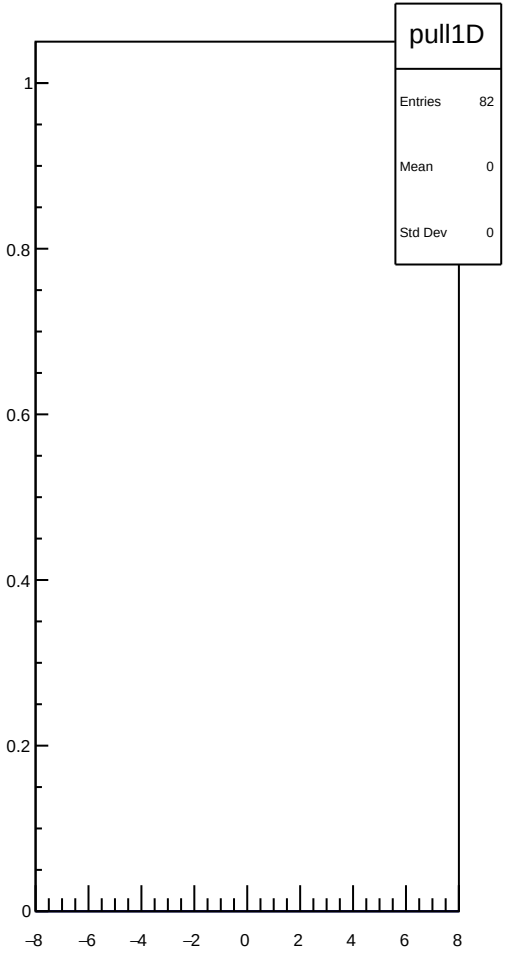

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

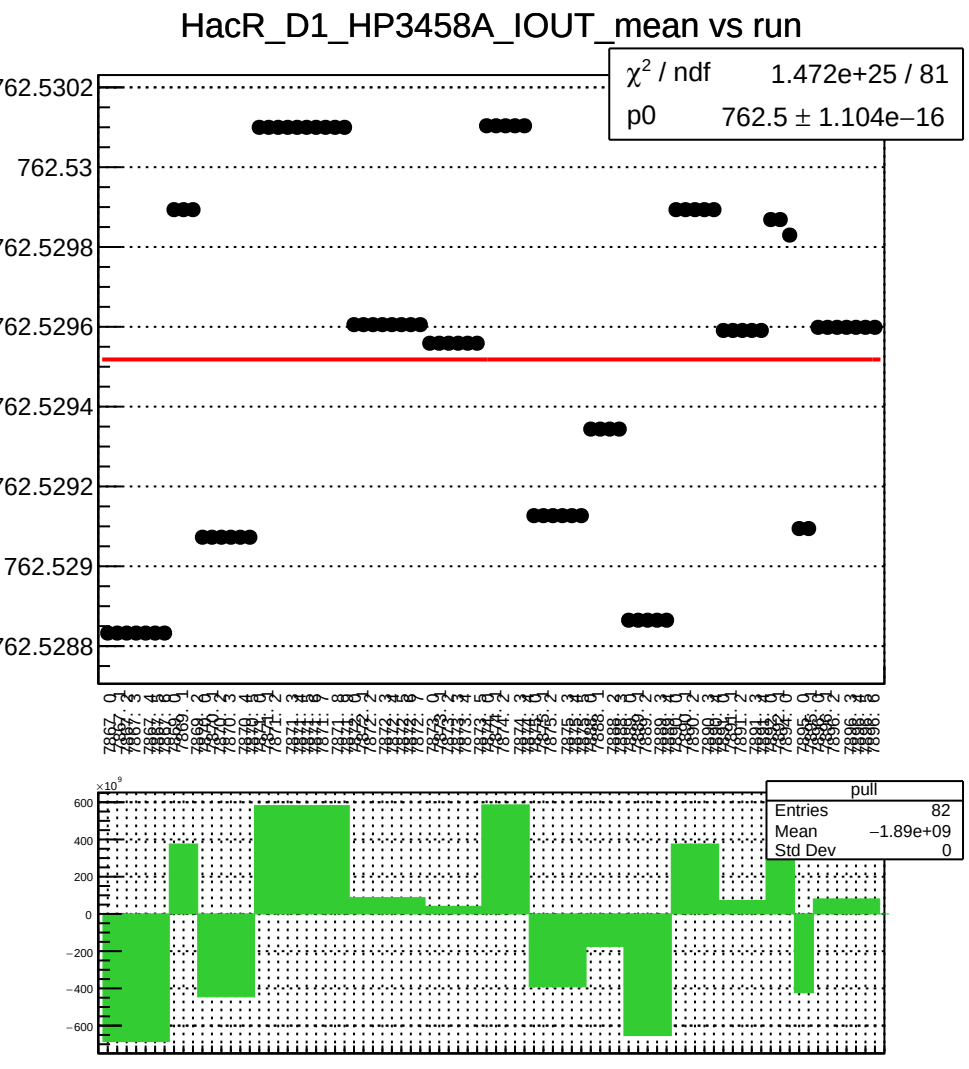

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.652e+28 / 81
p0 980.9 ± 1.104e−16
980.98
980.96
980.94
980.92
980.9
980.88
pull
Entries 82
Mean 4.054e+09
Std Dev 0
×10¹²
60
40
20
0
−20
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

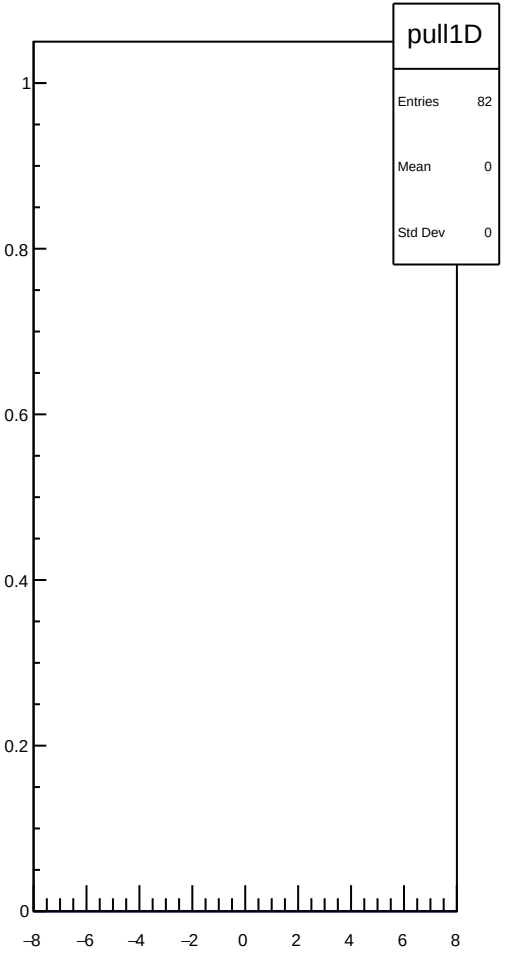

MQ172RM_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67

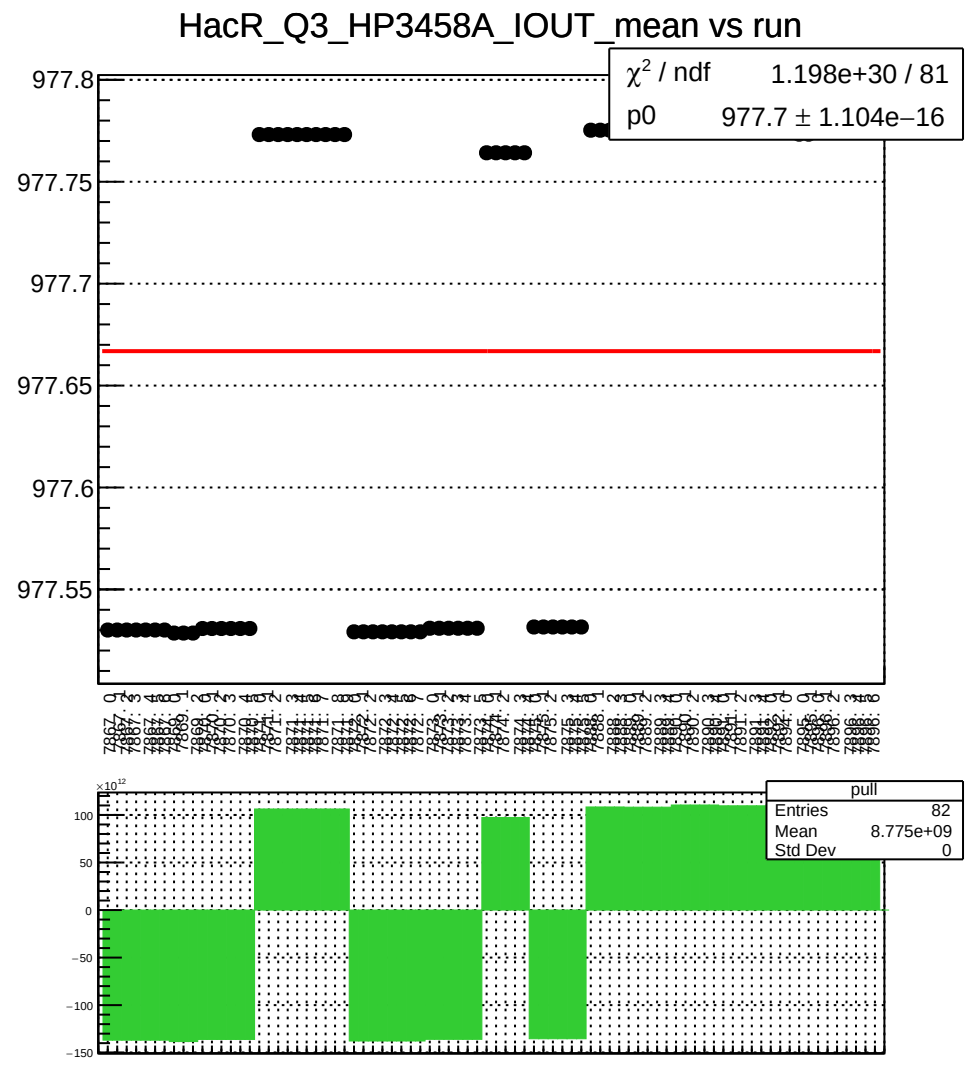

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

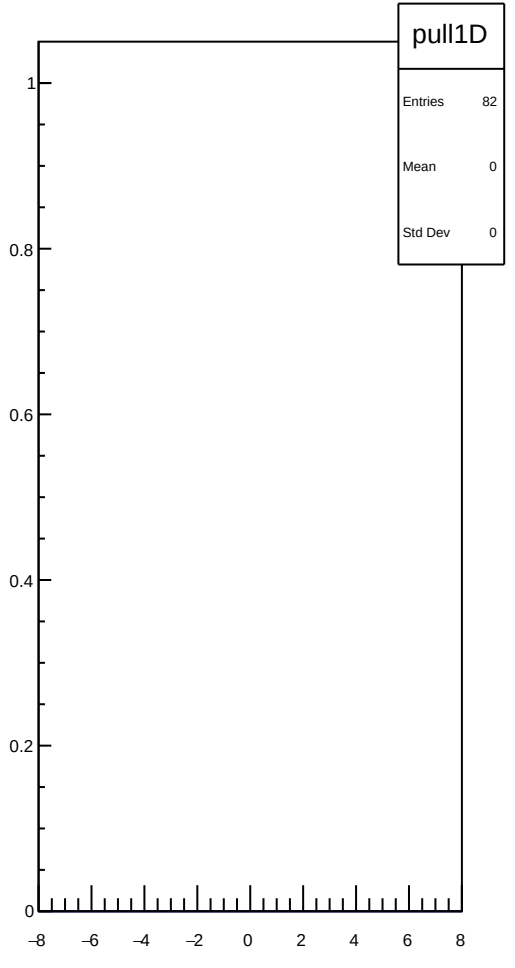

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.903e+28 / 81
p0 925 ± 1.104e−16
925.06
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 82
Mean 8.165e+08
Std Dev 0
×10¹²
40
30
20
10
0
−10
−20

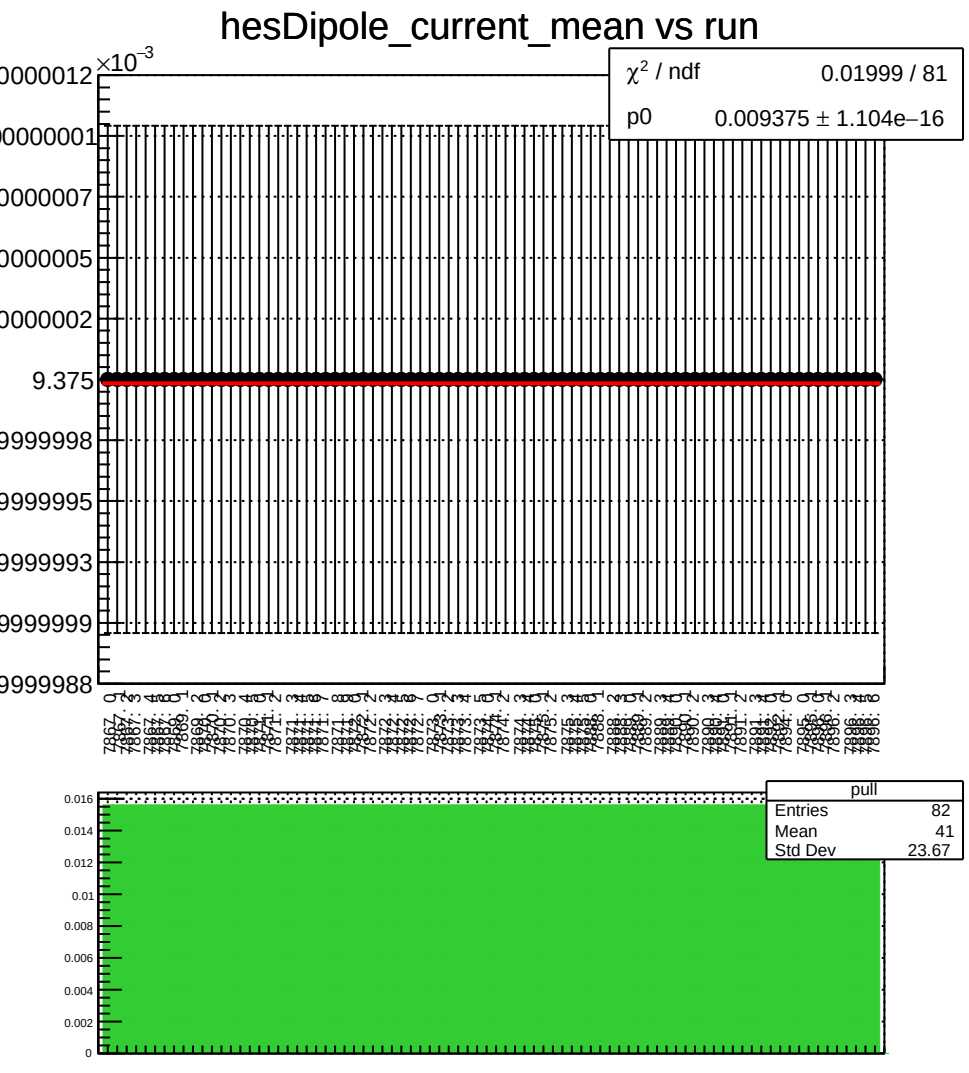

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

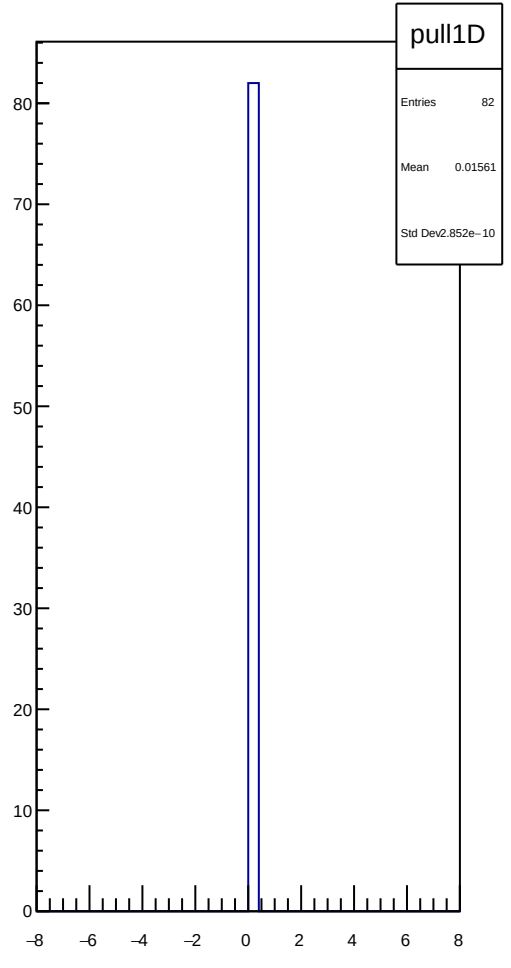

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.472e+25 / 81
p0 762.5 ± 1.104e−16
762.5302
762.53
762.5298
762.5296
762.5294
762.5292
762.529
762.5288
pull
Entries 82
Mean −1.89e+09
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600

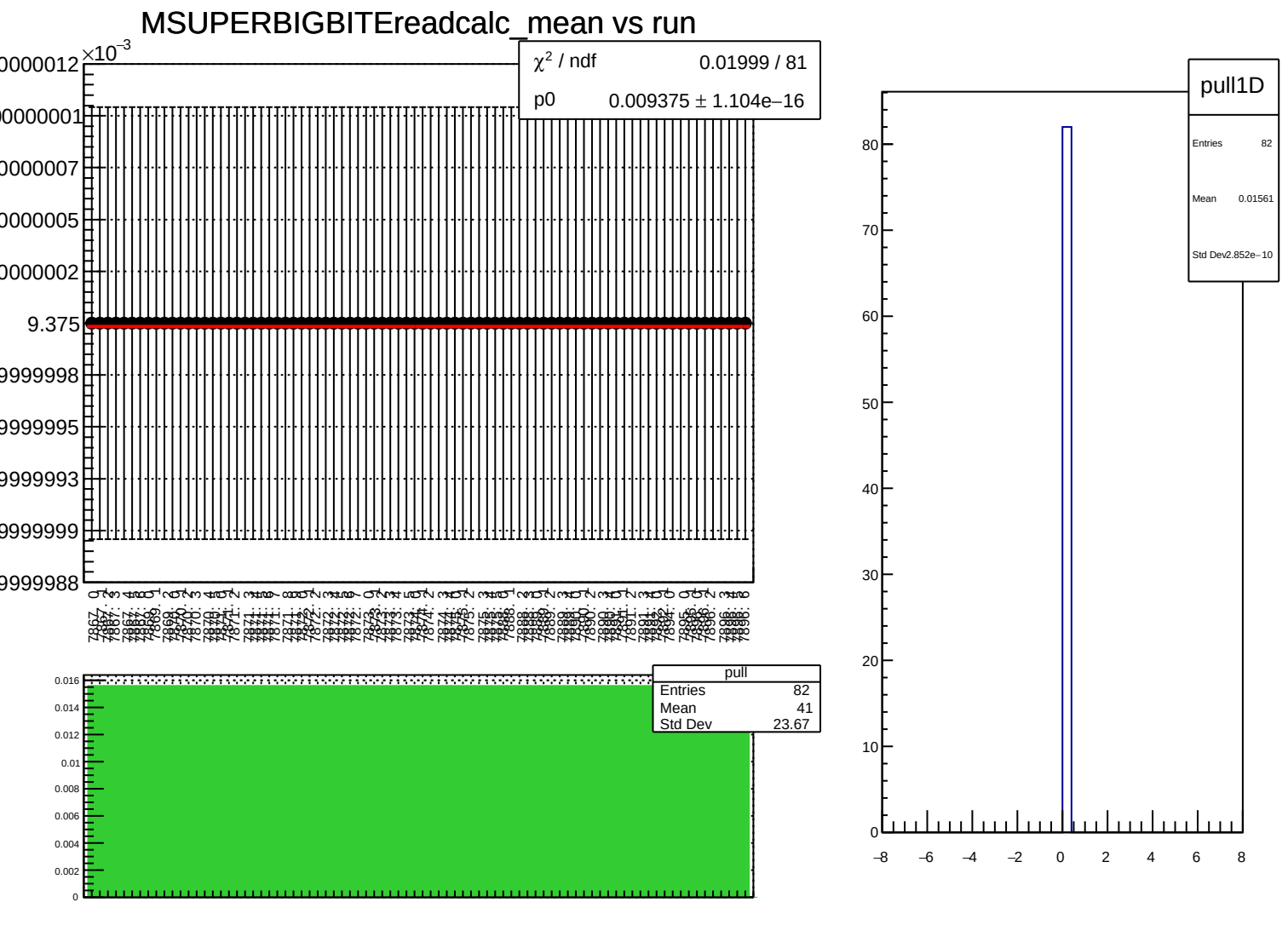

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

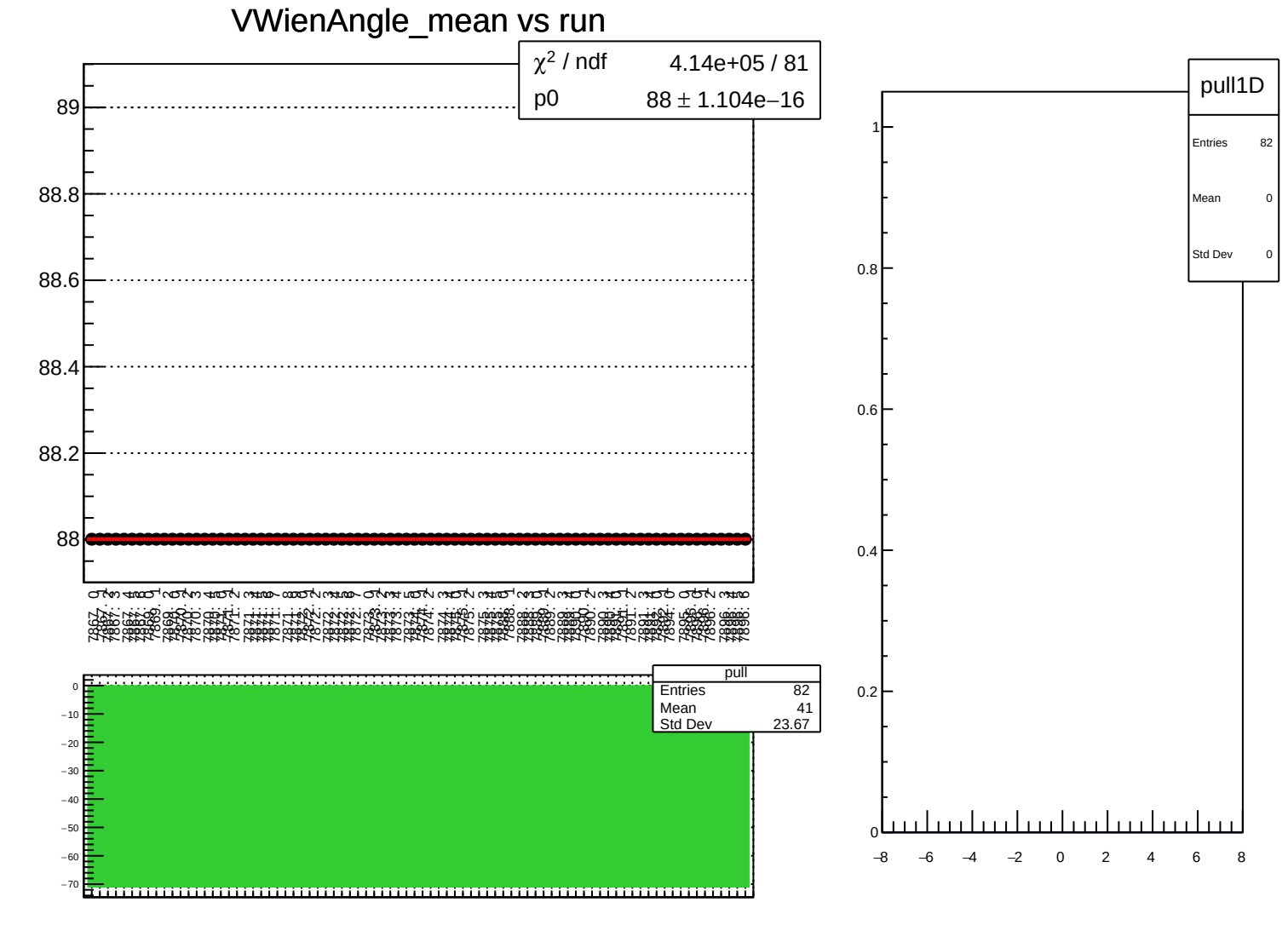

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.198e+30 / 81
p0 977.7 ± 1.104e−16
977.8
977.75
977.7
977.65
977.6
977.55
pull
Entries 82
Mean 8.775e+09
Std Dev 0
×10¹²
100
50
0
−50
−100
−150

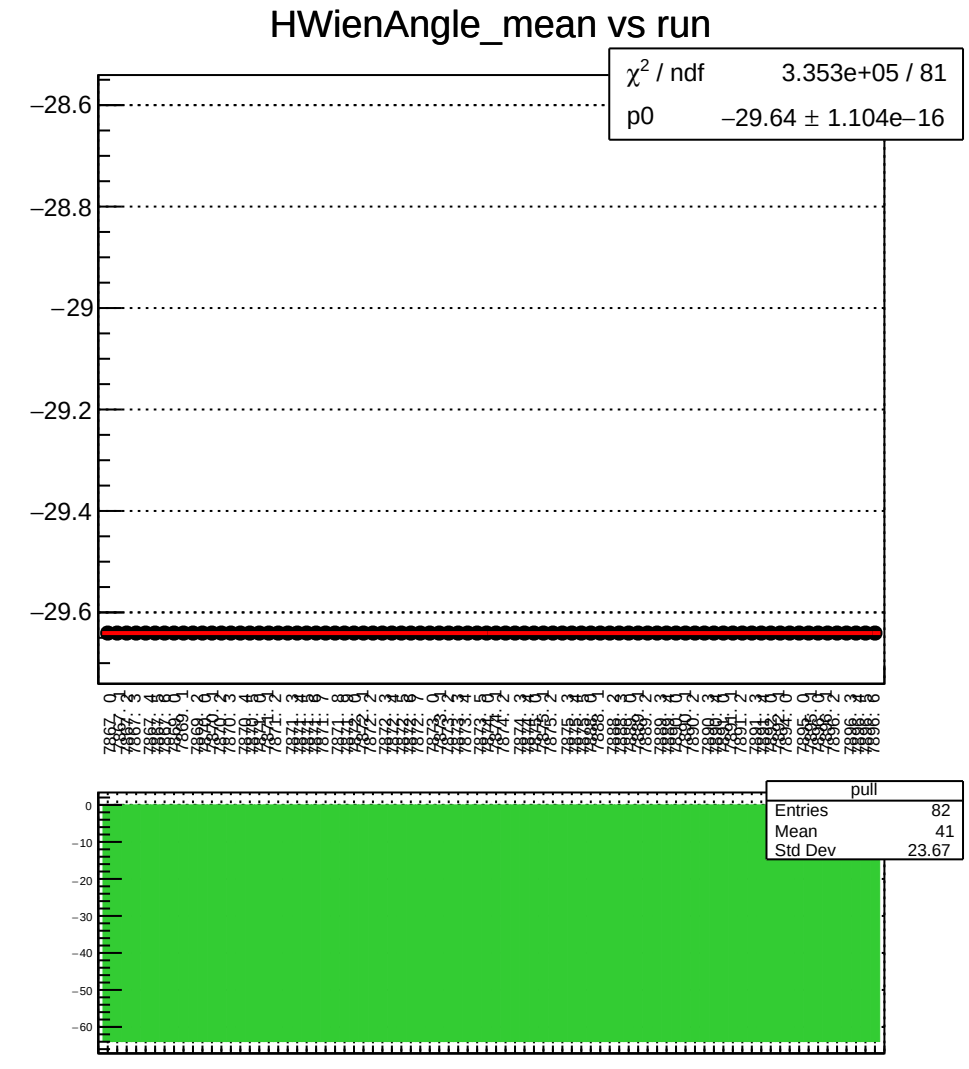

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

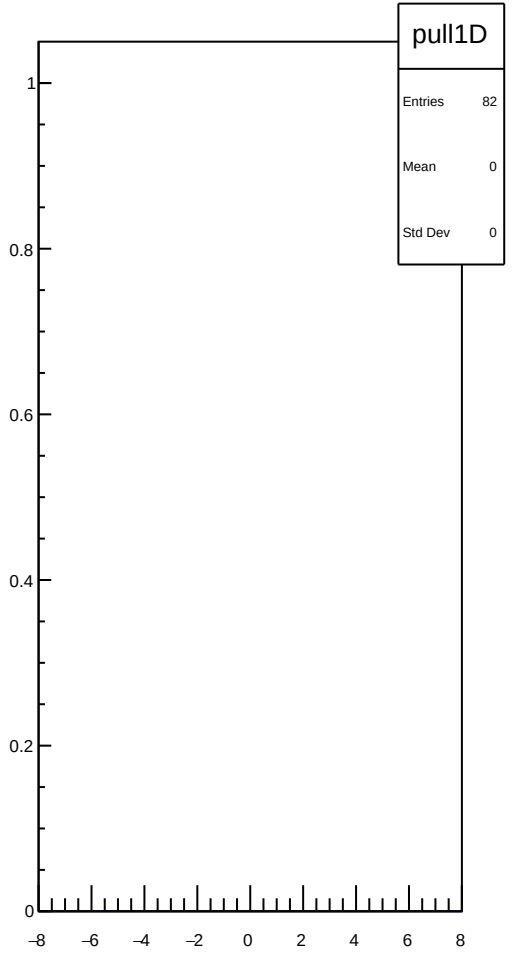

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
pull
Entries 82
Mean 41
Std Dev 23.67

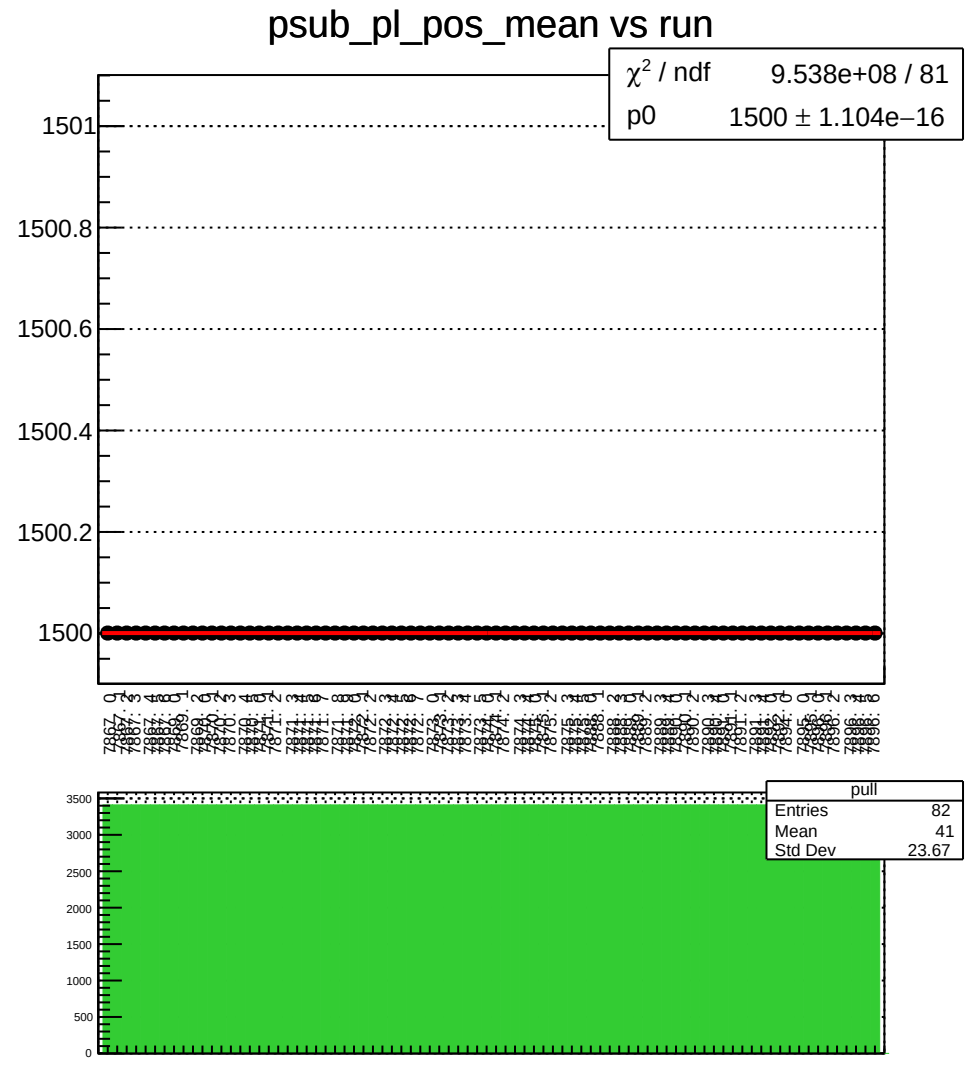

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

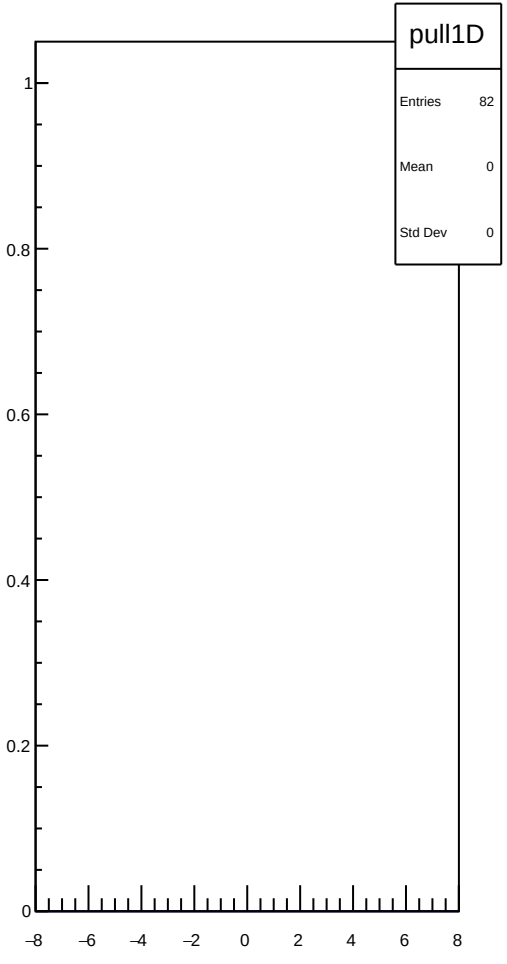

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

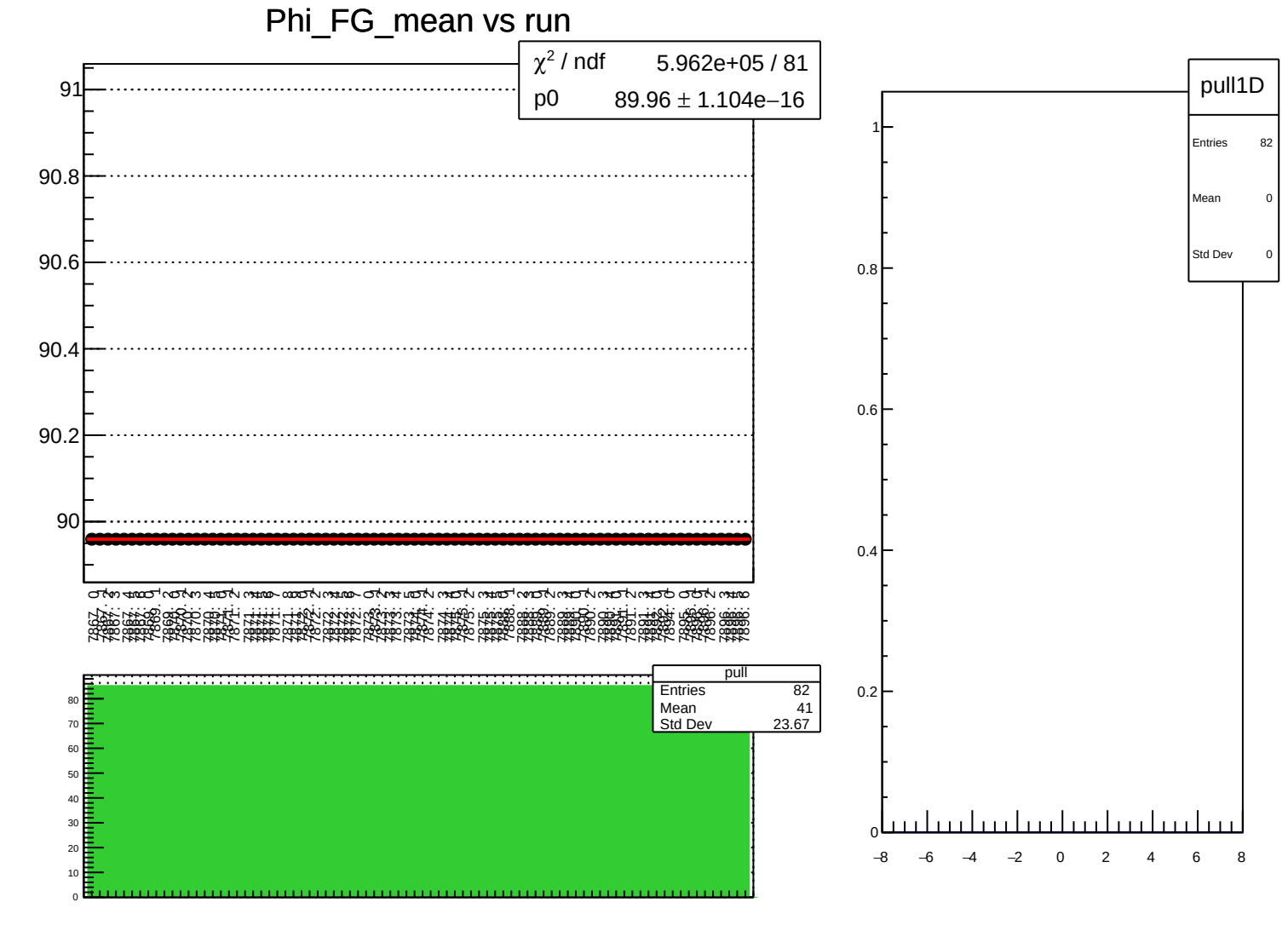

VWienAngle_mean vs run
χ² / ndf 4.14e+05 / 81
p0 88 ± 1.104e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 82
Mean 41
Std Dev 23.67
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

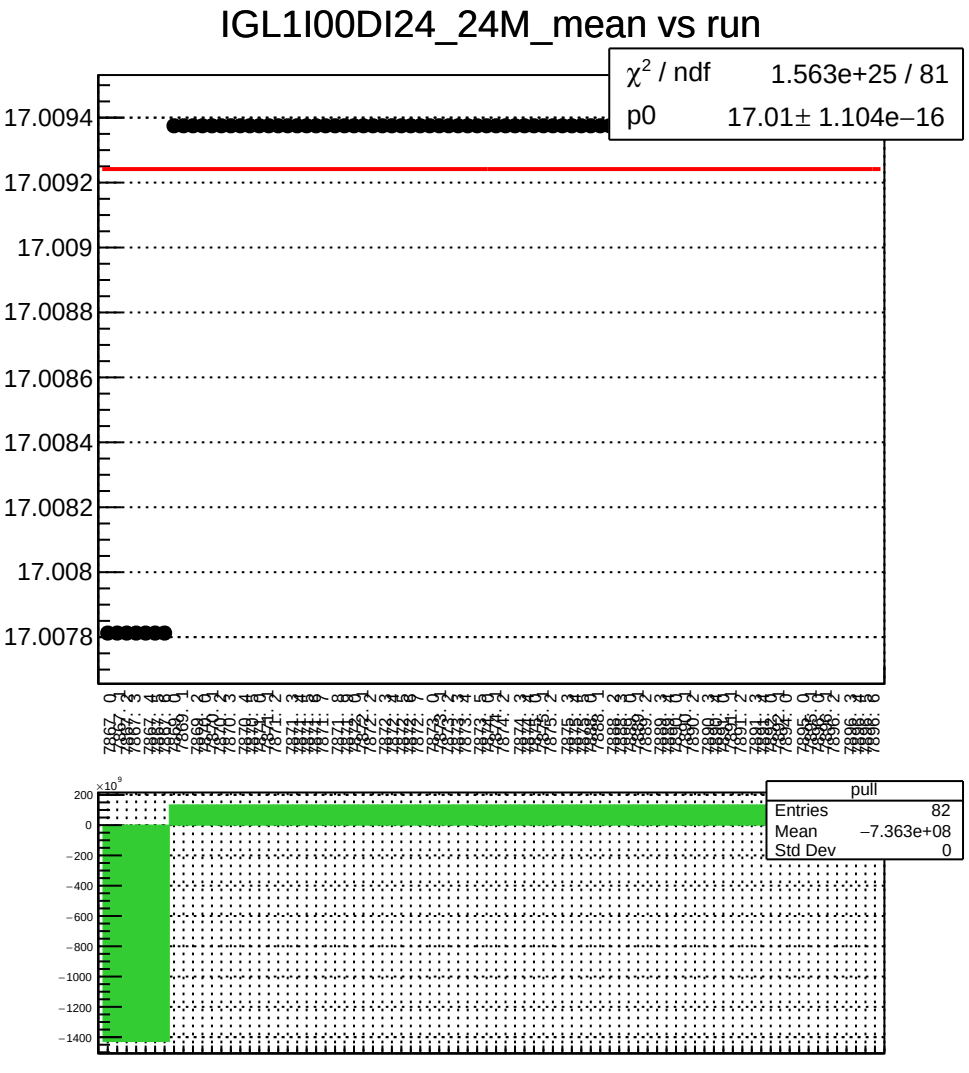

HWienAngle_mean vs run
χ² / ndf 3.353e+05 / 81
p0 −29.64 ± 1.104e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 82
Mean 41
Std Dev 23.67
0
−10
−20
−30
−40
−50
−60

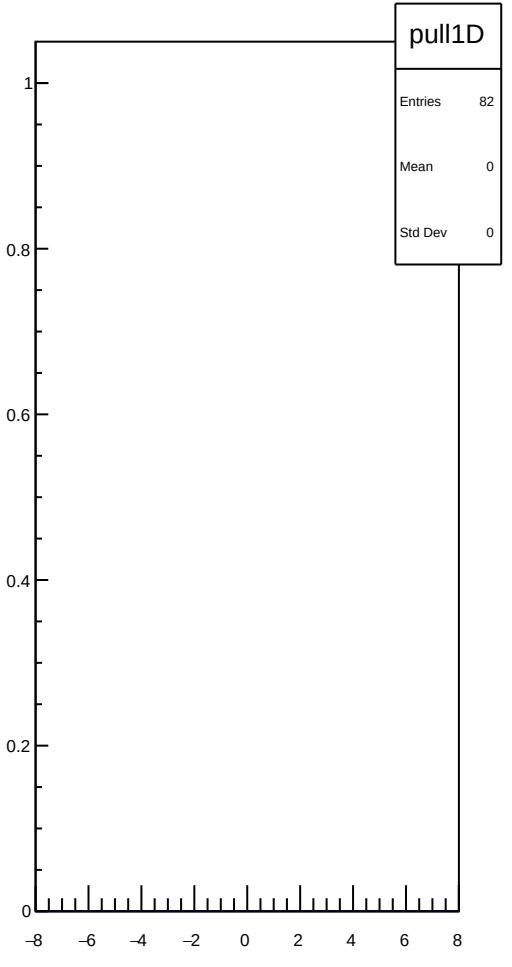

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

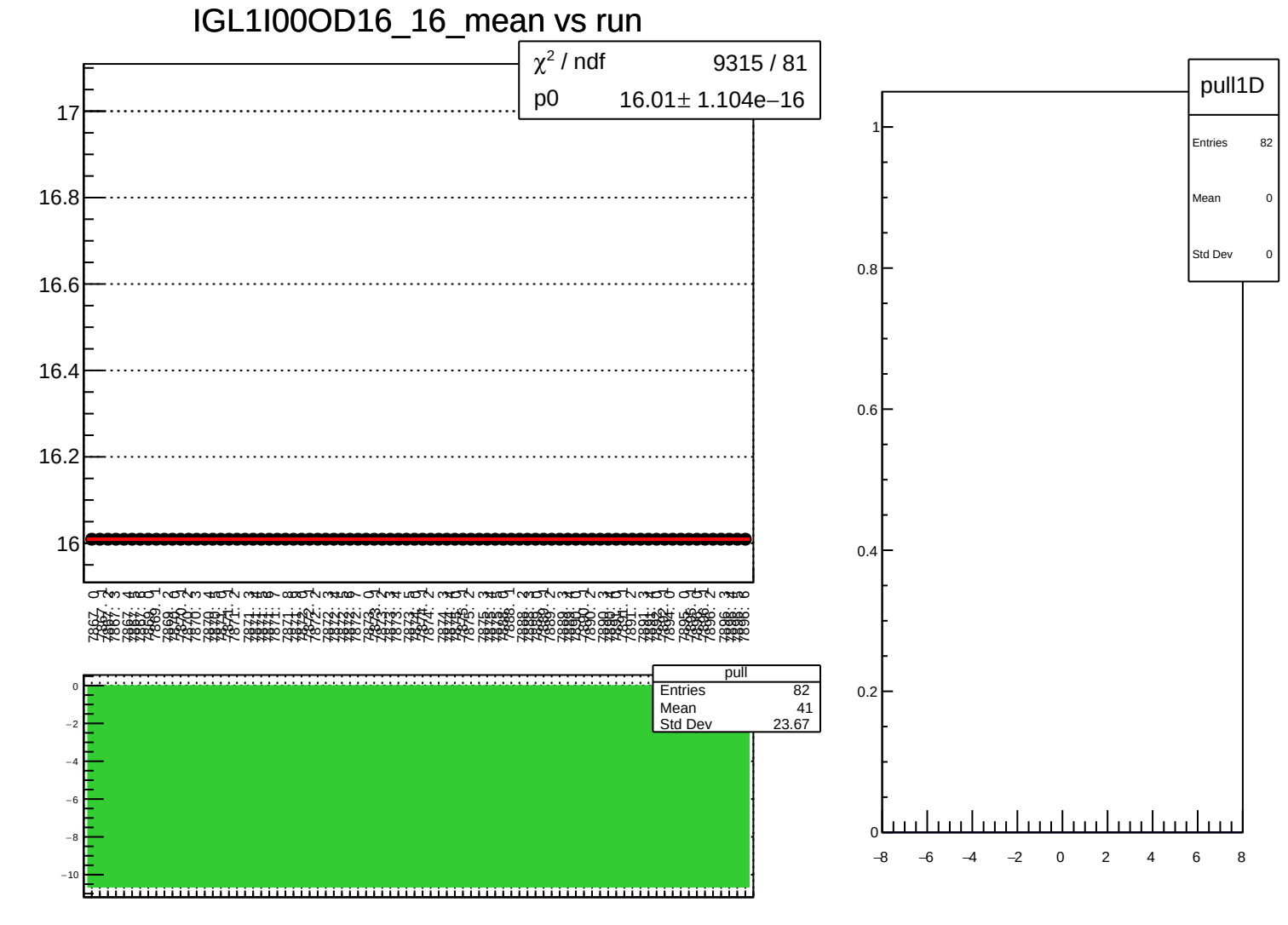

psub_pl_pos_mean vs run
χ² / ndf 9.538e+08 / 81
p0 1500 ± 1.104e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 82
Mean 41
Std Dev 23.67
3500
3000
2500
2000
1500
1000
500
0

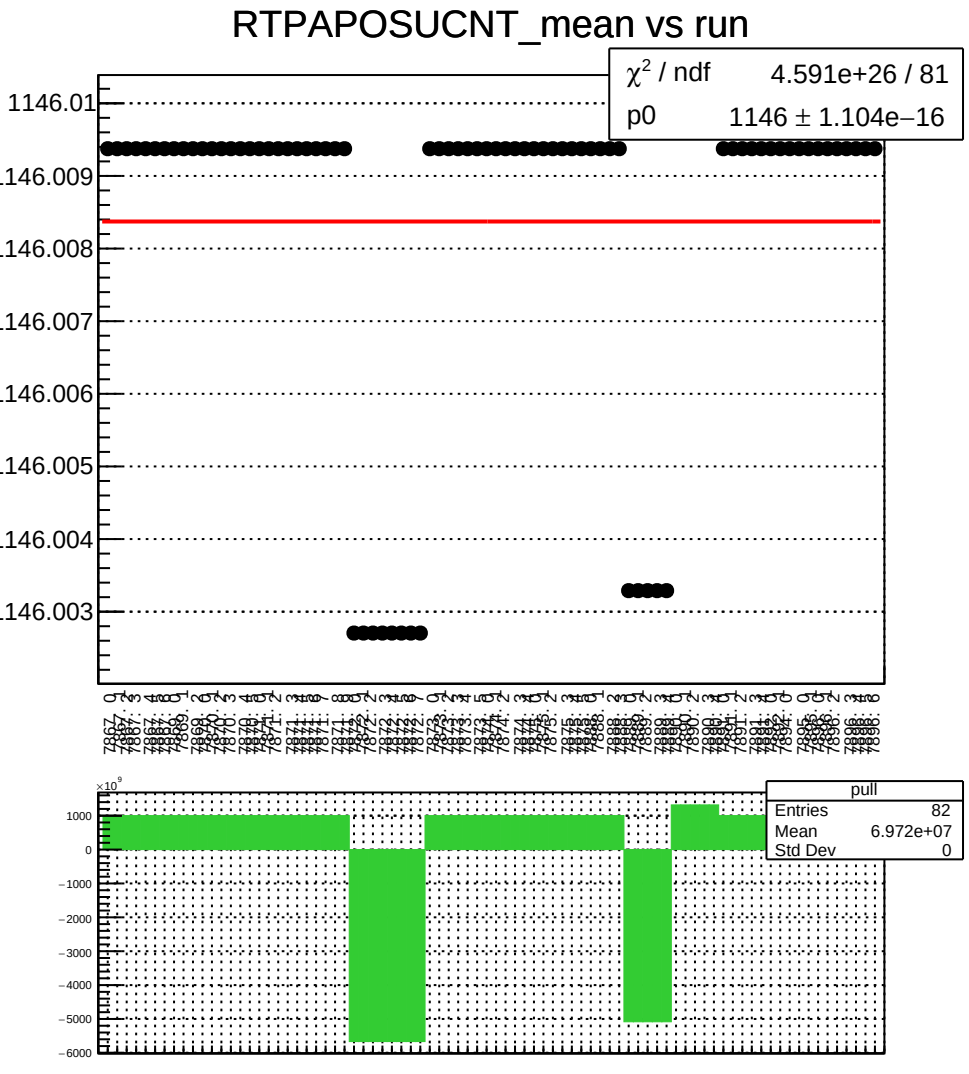

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

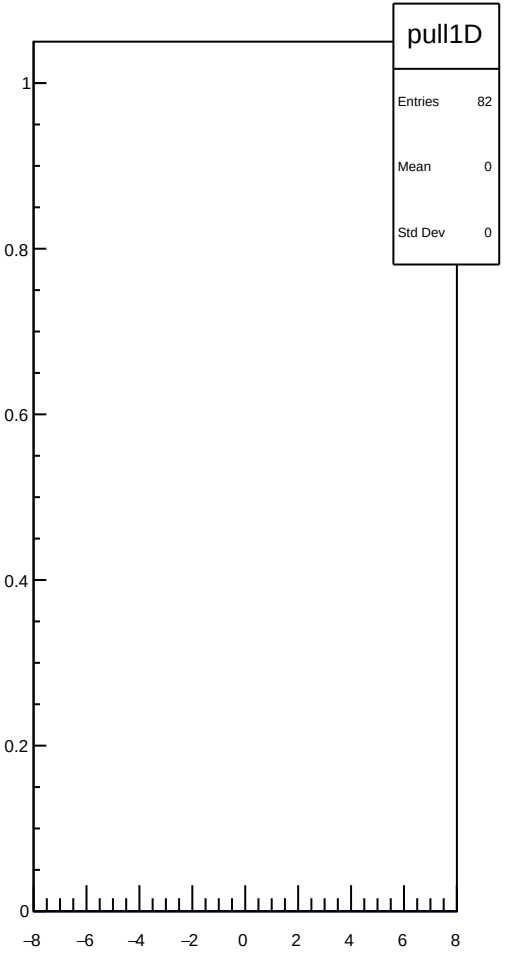

Phi_FG_mean vs run
χ² / ndf 5.962e+05 / 81
p0 89.96 ± 1.104e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 82
Mean 41
Std Dev 23.67
80
70
60
50
40
30
20
10
0
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

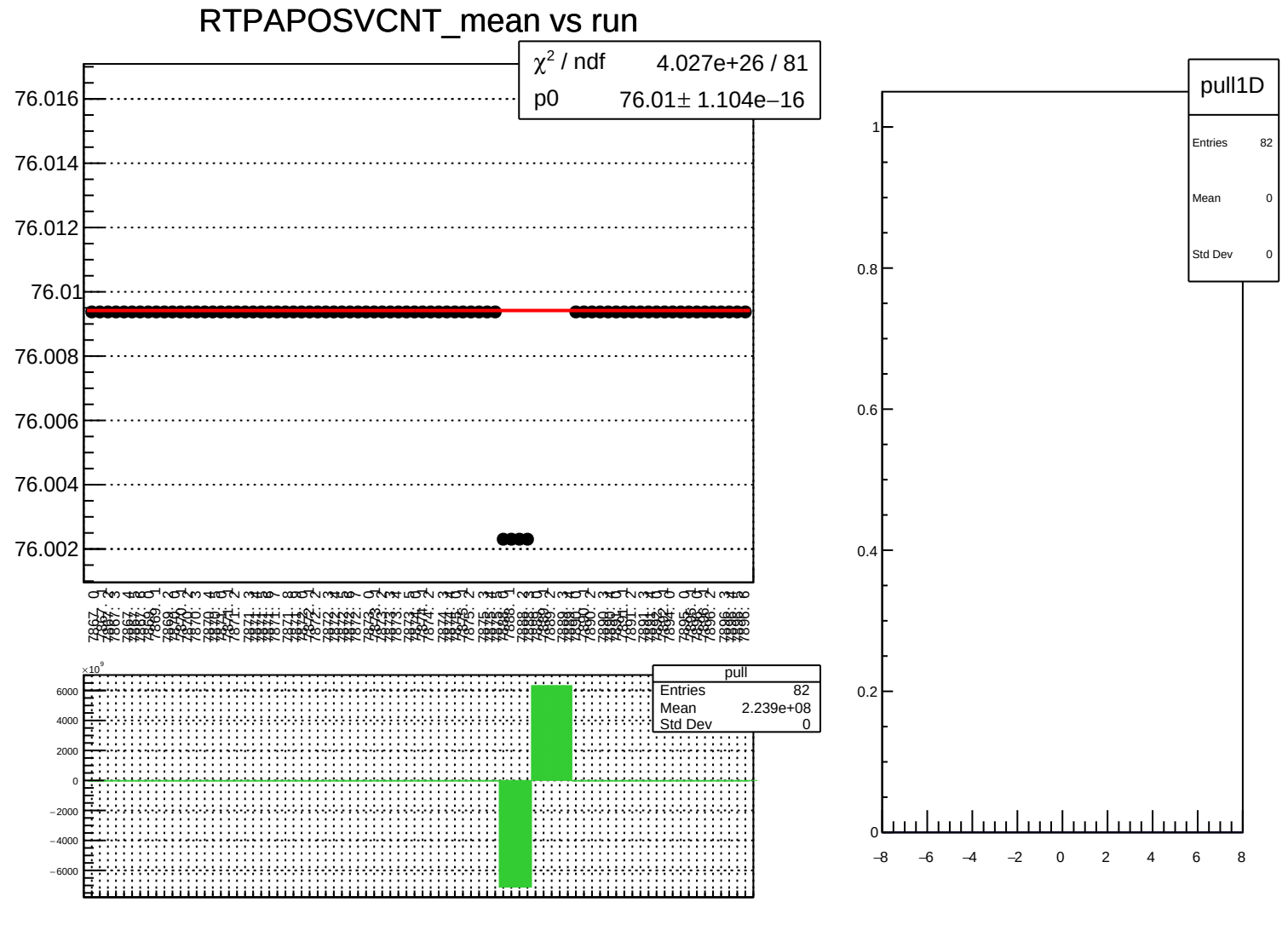

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.563e+25 / 81
p0 17.01± 1.104e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 82
Mean −7.363e+08
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

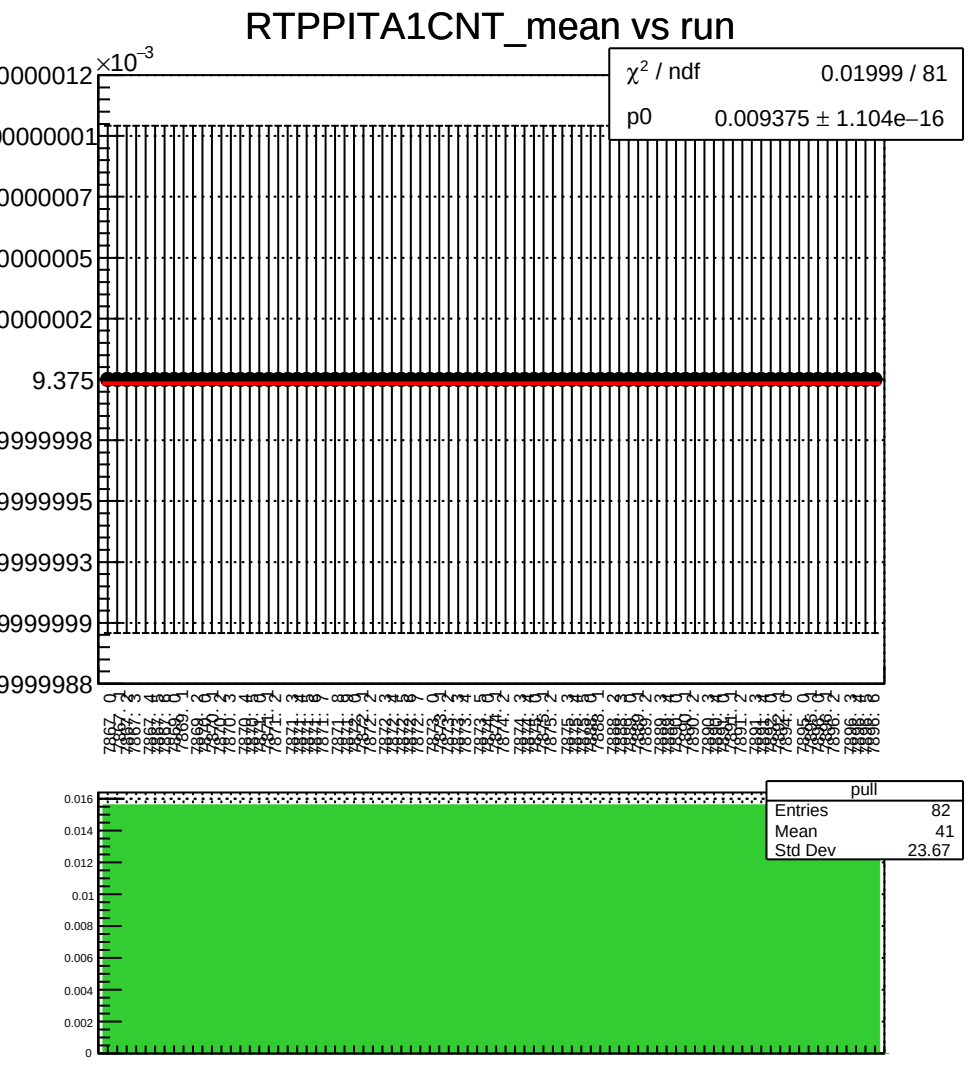

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

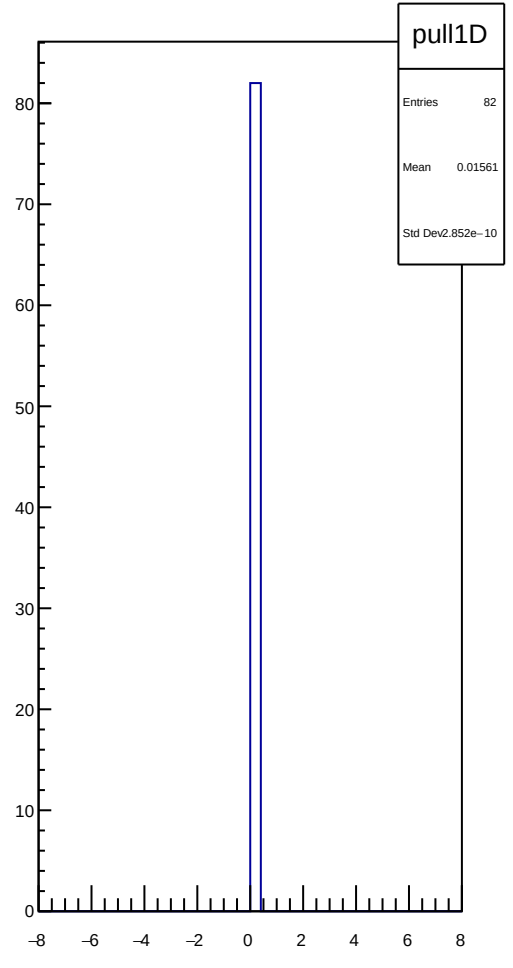

IGL1I00OD16_16_mean vs run
χ² / ndf 9315 / 81
p0 16.01± 1.104e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 82
Mean 41
Std Dev 23.67
0
−2
−4
−6
−8
−10
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

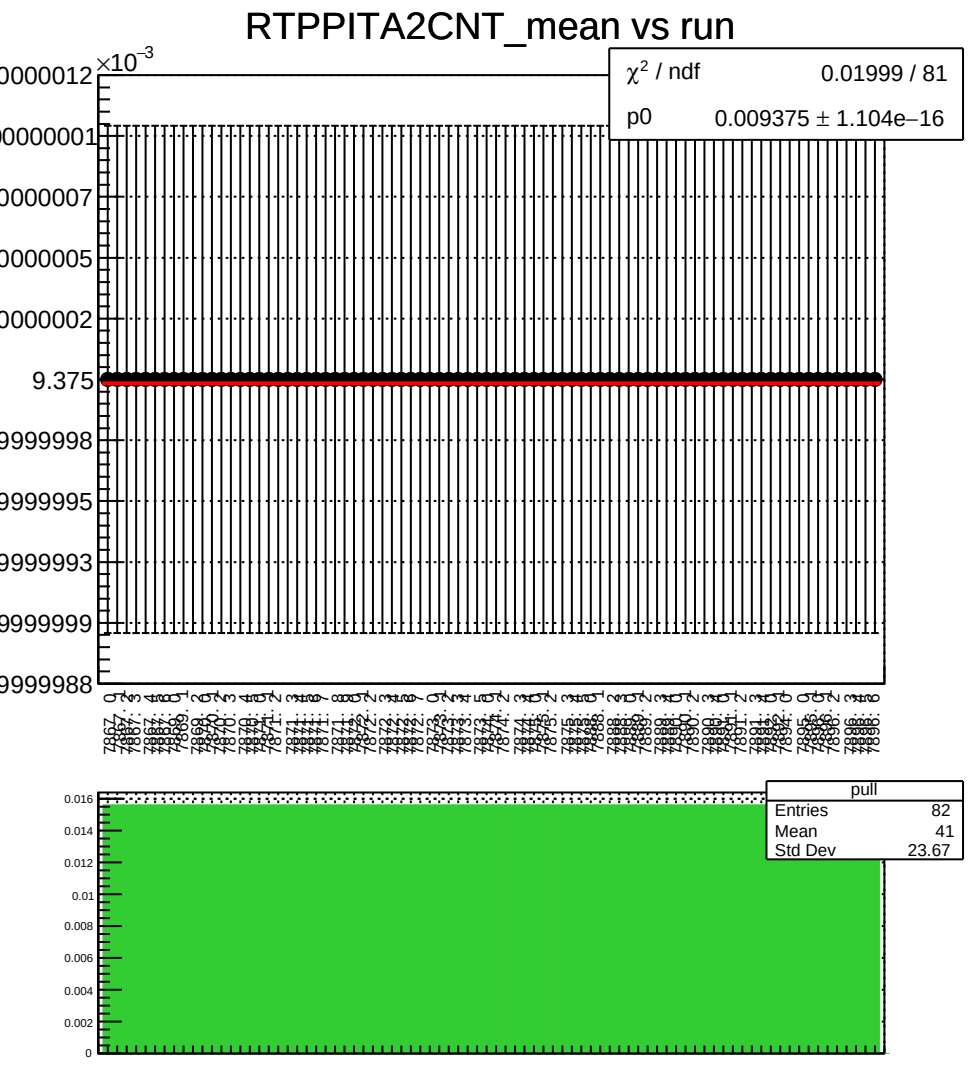

RTPAPOSUCNT_mean vs run
χ² / ndf 4.591e+26 / 81
p0 1146 ± 1.104e−16
1146.01
1146.009
1146.008
1146.007
1146.006
1146.005
1146.004
1146.003
pull
Entries 82
Mean 6.972e+07
Std Dev 0
×10⁹
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

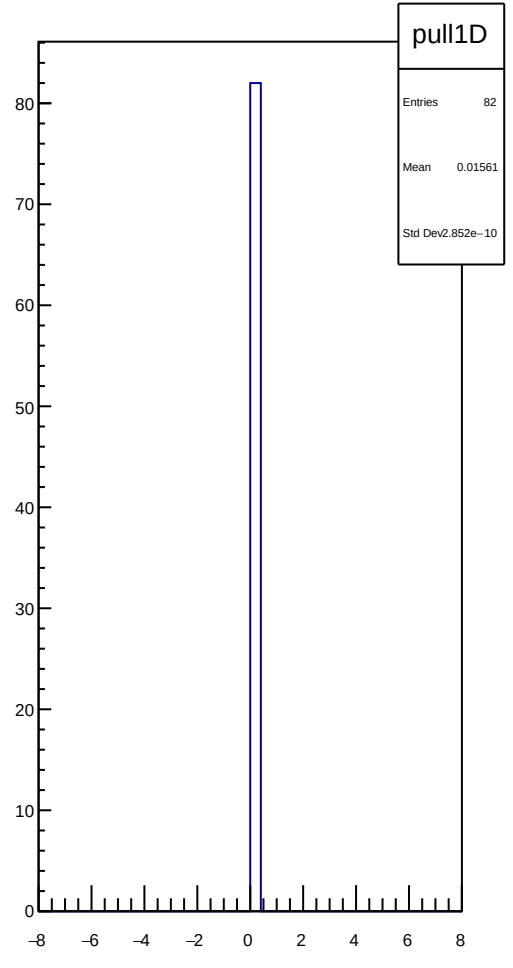

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 4.027e+26 / 81
p0 76.01± 1.104e−16
76.016
76.014
76.012
76.01
76.008
76.006
76.004
76.002
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 2.239e+08
Std Dev 0
pull1D
Entries 82
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 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
9.375
pull
Entries 82
Mean 41
Std Dev 23.67


pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10


RTPPITA2CNT_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67


pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10