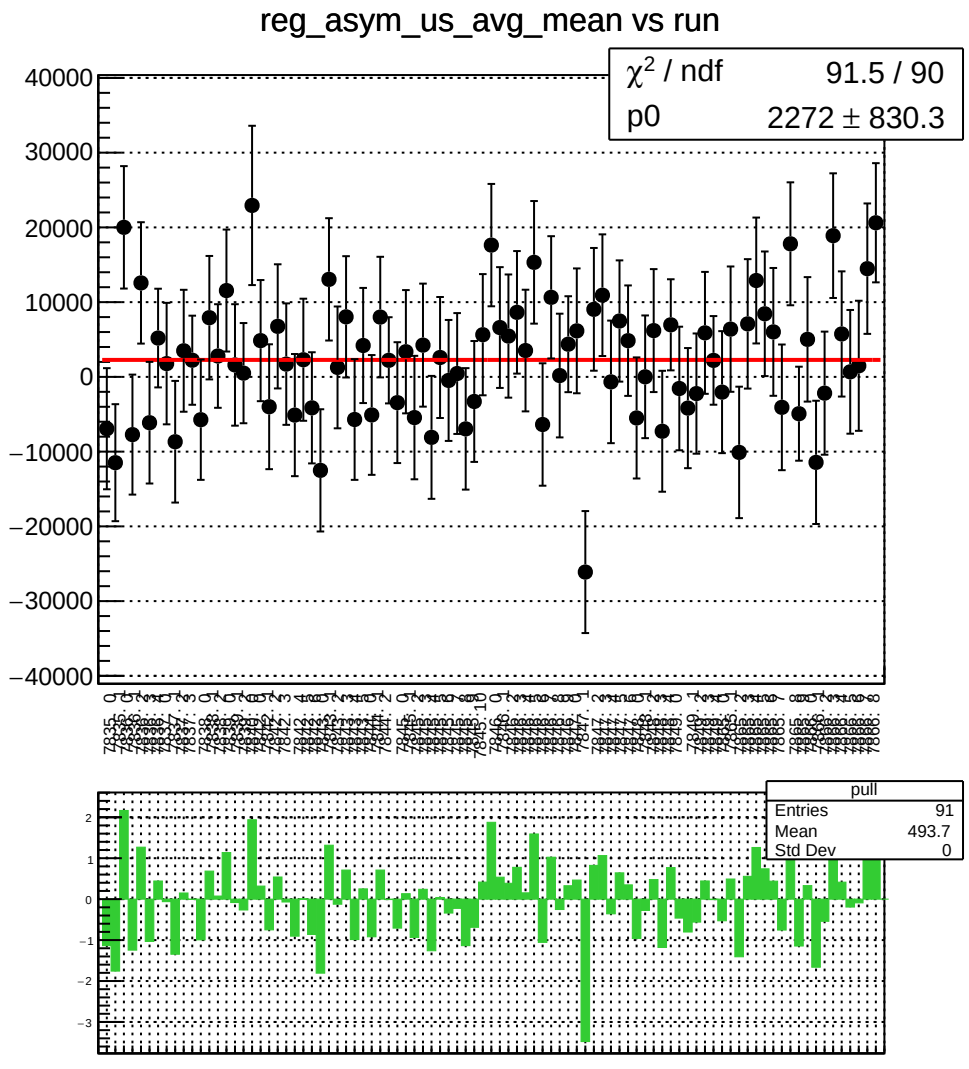
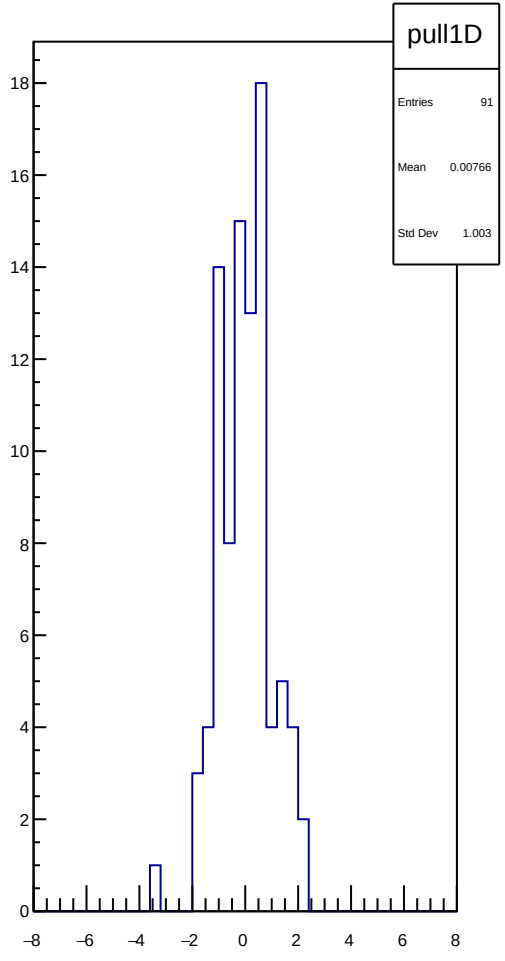
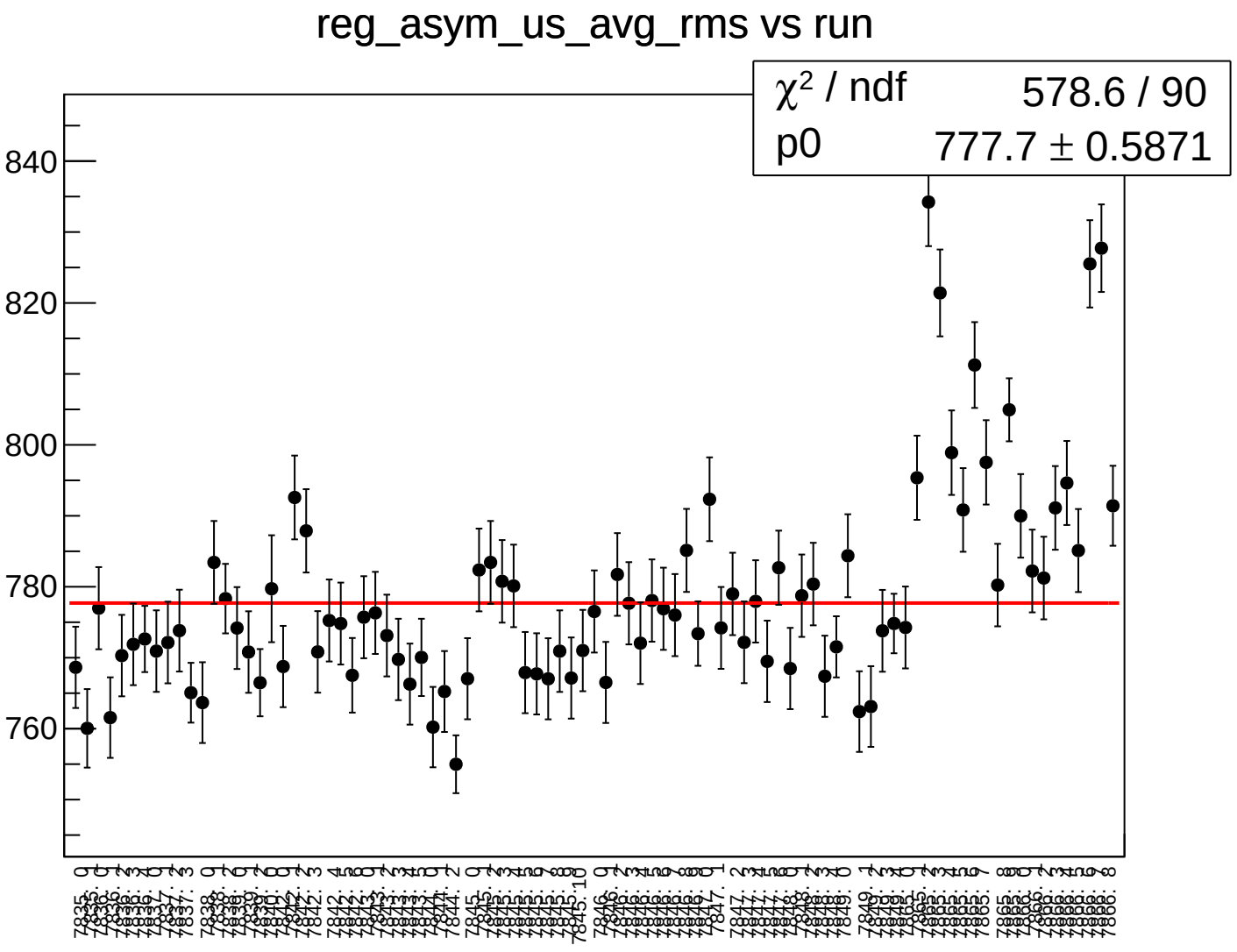
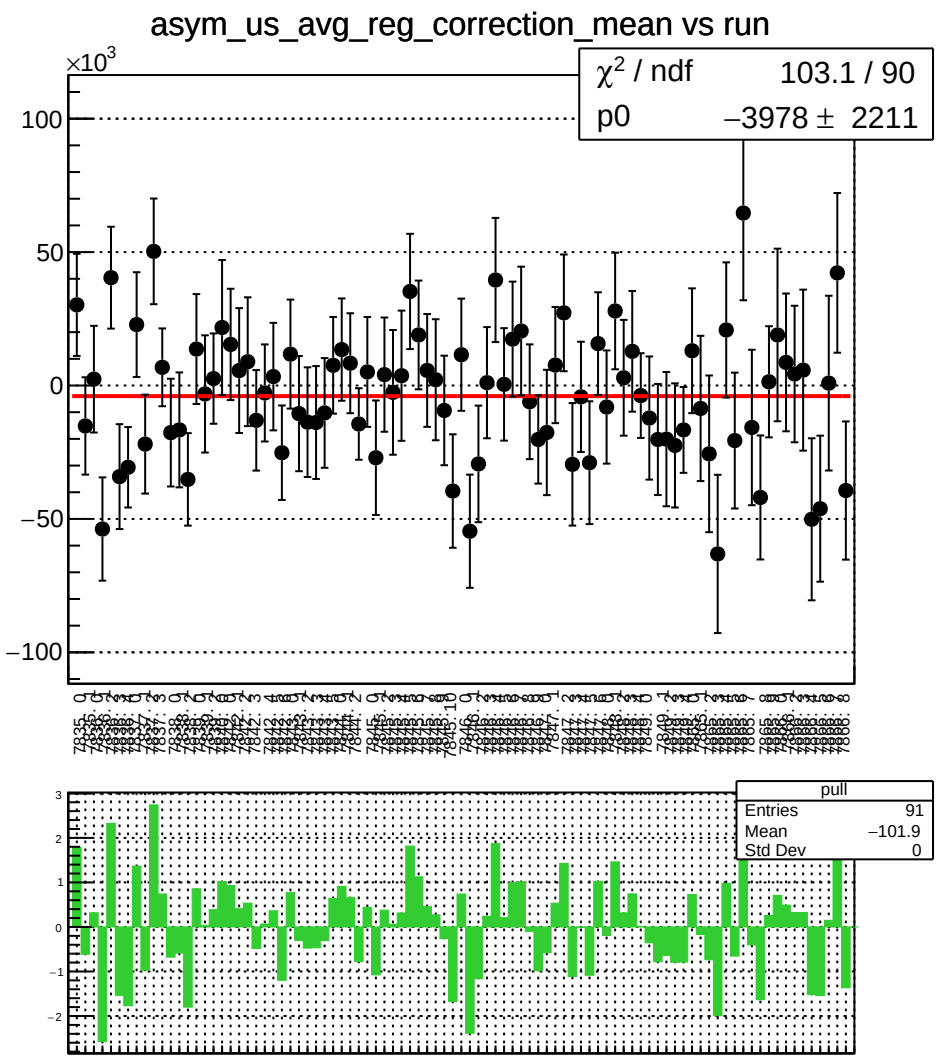
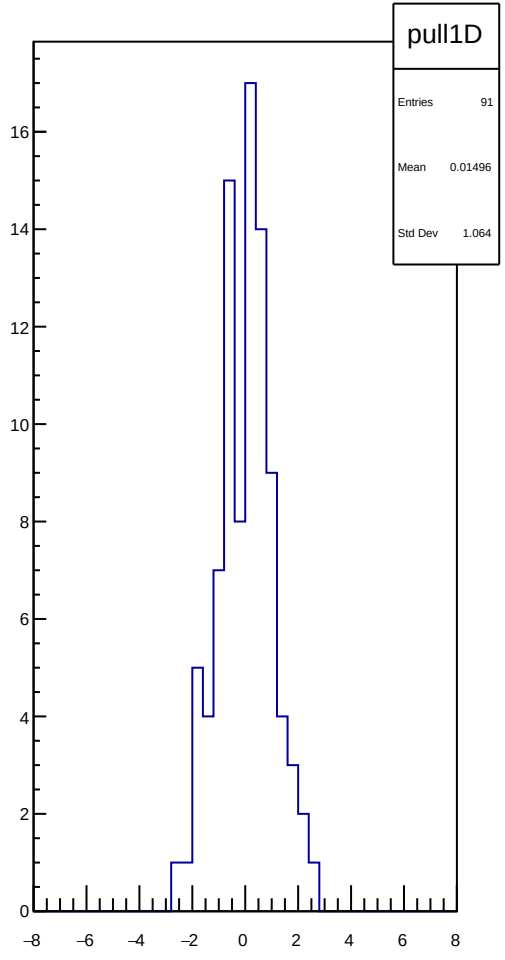

reg_asym_us_avg_mean vs run
χ^2 / ndf 91.5 / 90
p0 2272 ± 830.3
pull
Entries 91
Mean 493.7
Std Dev 0


pull1D
Entries 91
Mean 0.00766
Std Dev 1.003


reg_asym_us_avg_rms vs run
χ² / ndf 578.6 / 90
p0 777.7 ± 0.5871
840
820
800
780
760


asym_us_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.1 / 90
p0 −3978 ± 2211
100
50
0
−50
−100
pull
Entries 91
Mean −101.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01496
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
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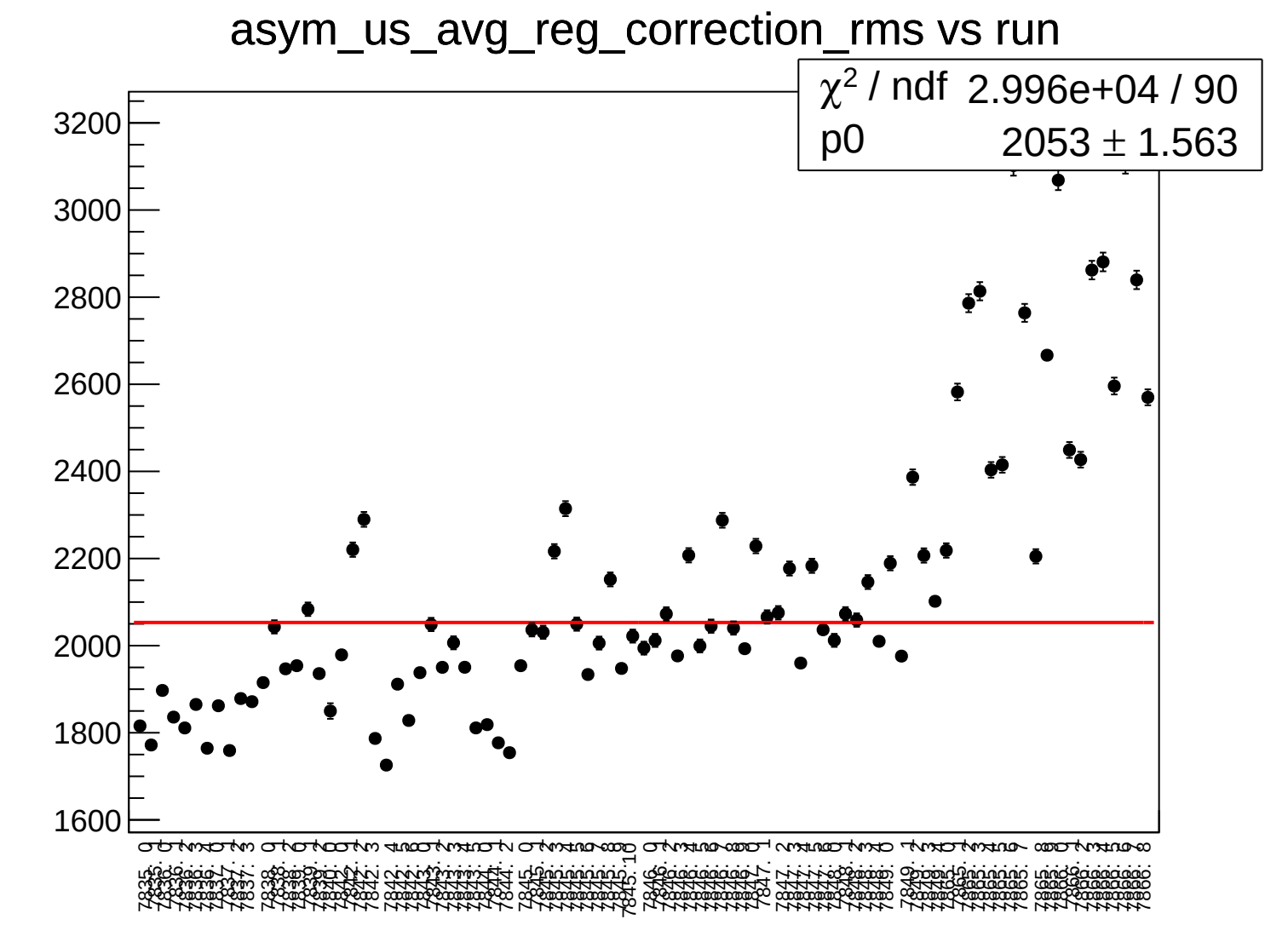
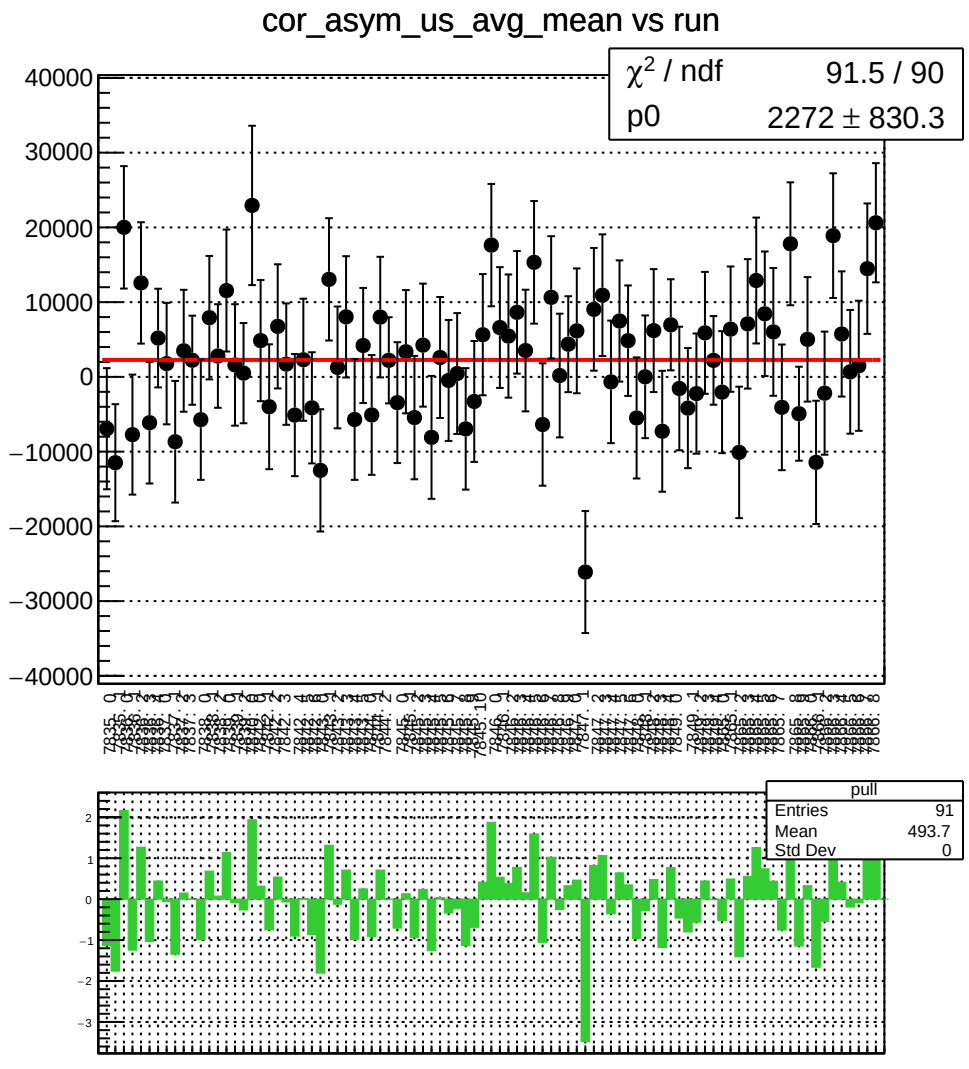
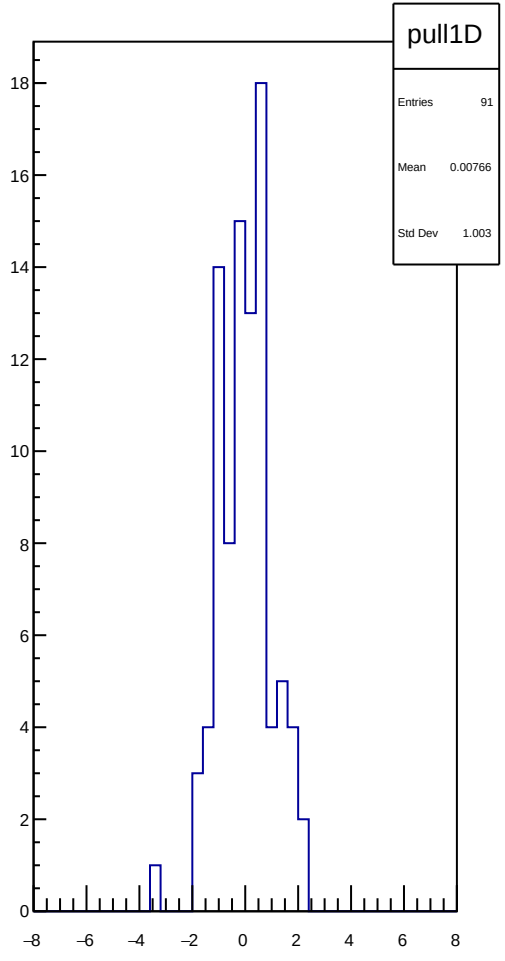
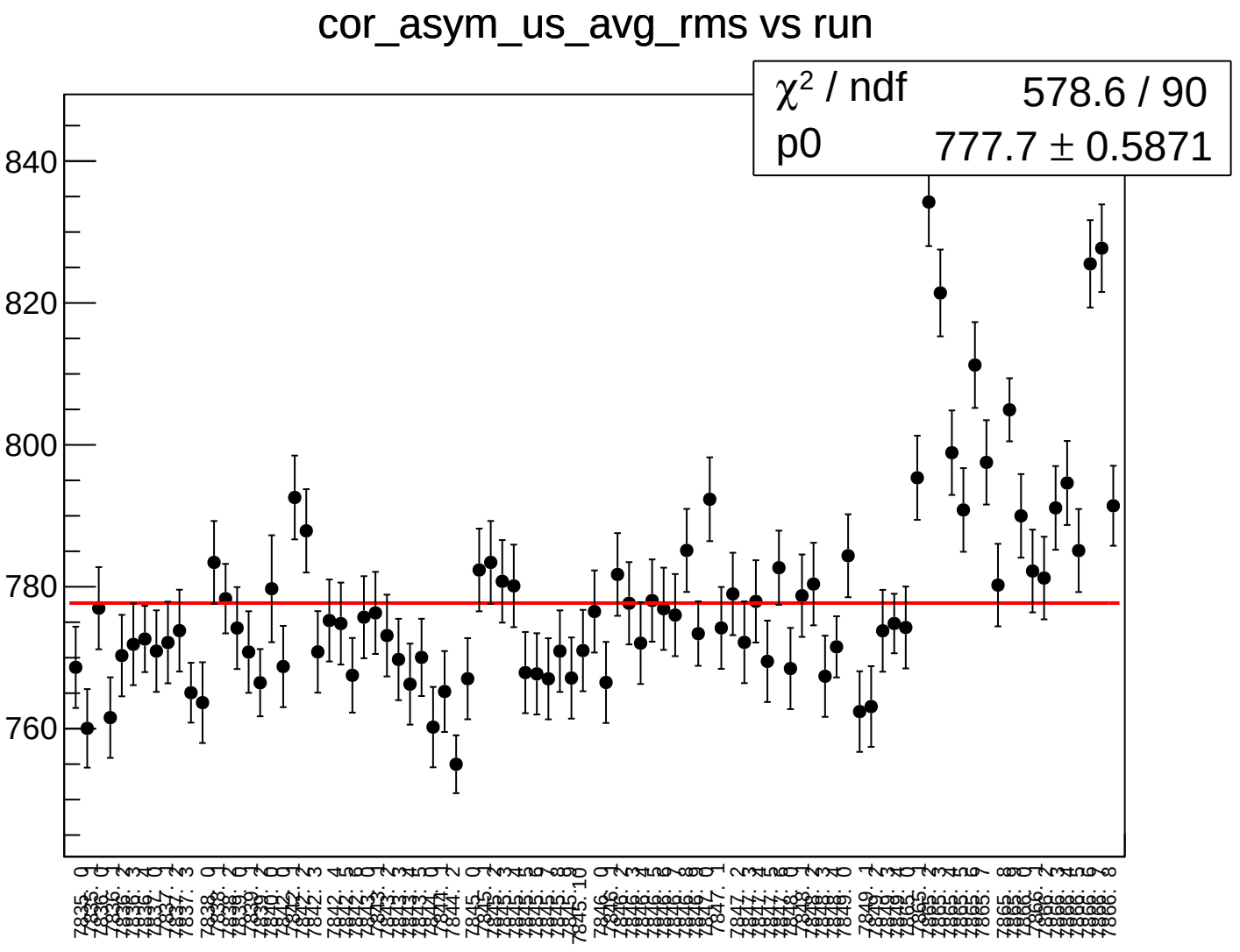
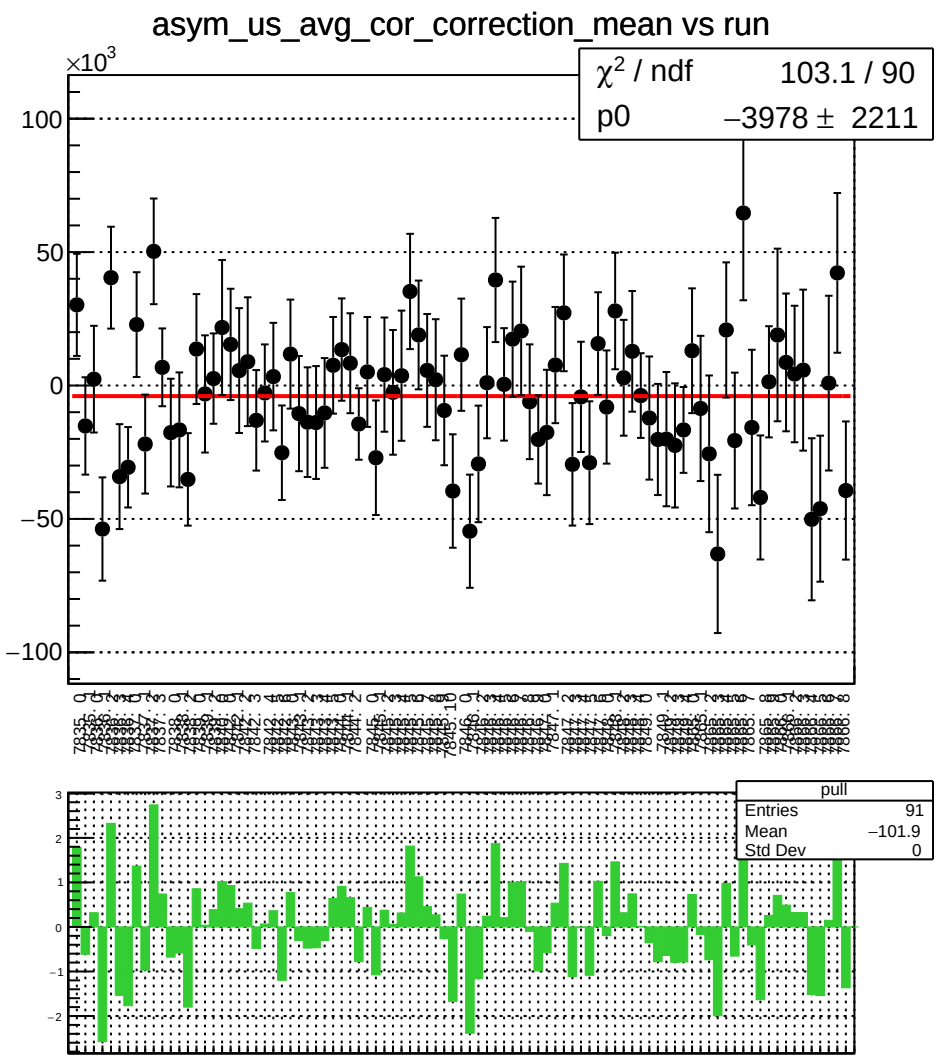
0
2
4
6
8

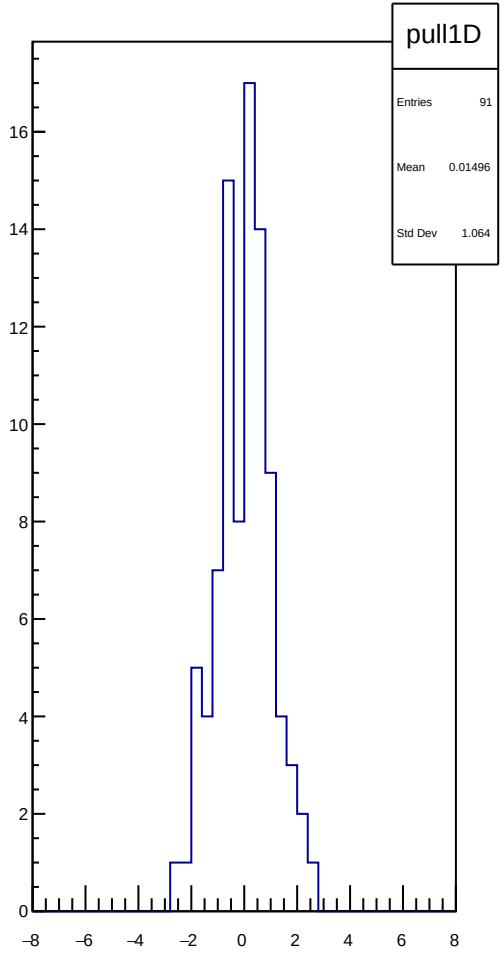

asym_us_avg_reg_correction_rms vs run
χ² / ndf 2.996e+04 / 90
p0 2053 ± 1.563
3200
3000
2800
2600
2400
2200
2000
1800
1600

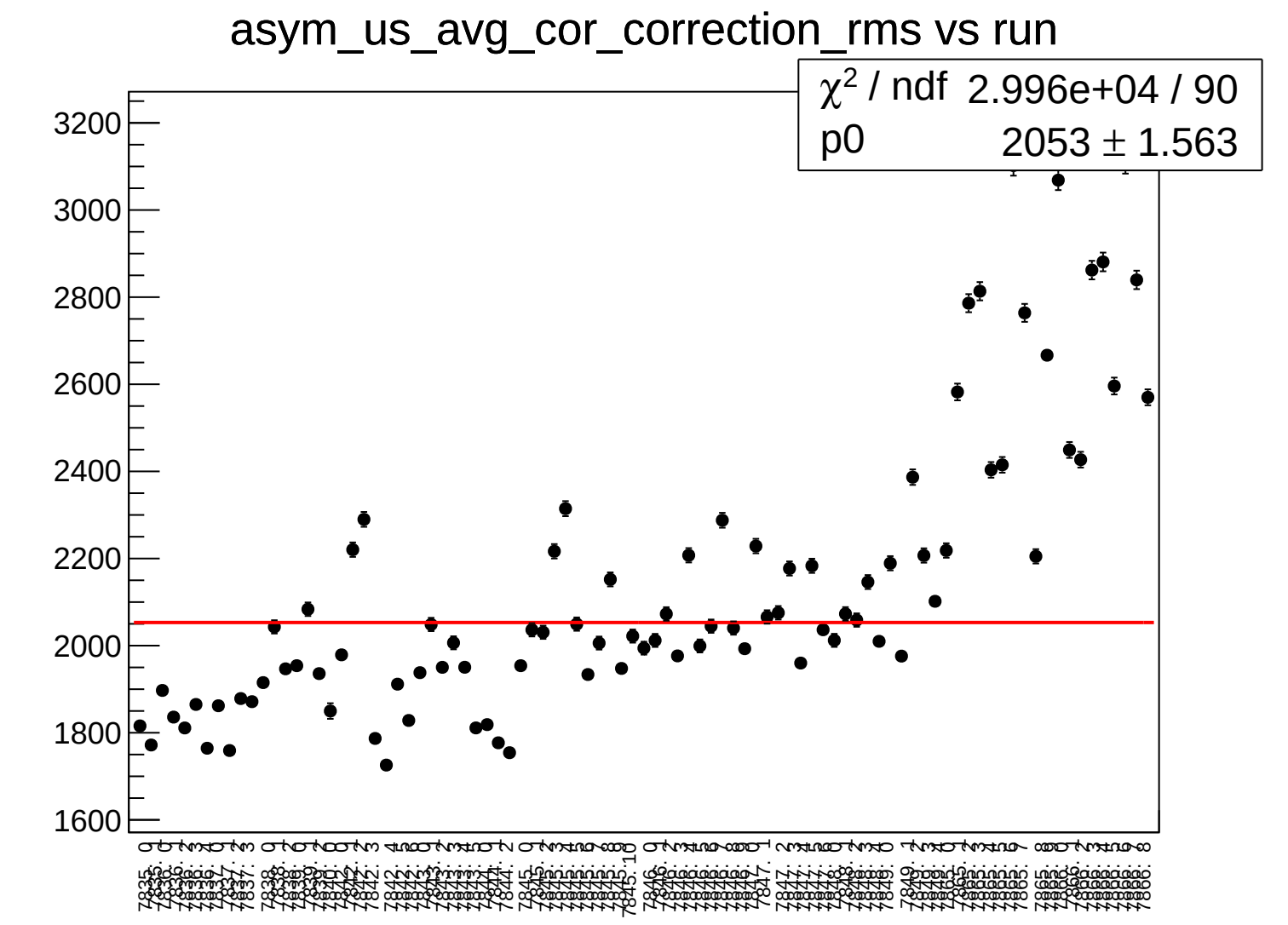

cor_asym_us_avg_mean vs run
χ² / ndf 91.5 / 90
p0 2272 ± 830.3
pull
Entries 91
Mean 493.7
Std Dev 0

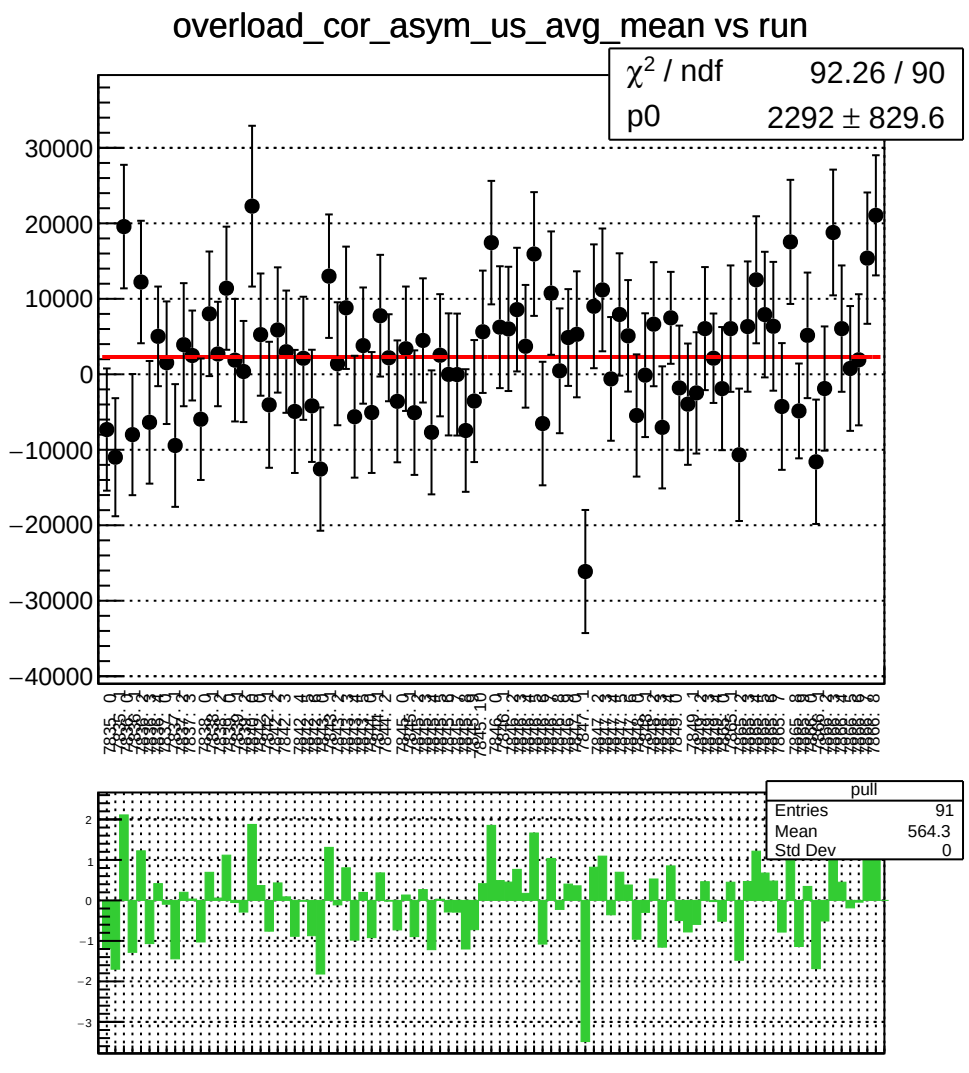

pull1D
Entries 91
Mean 0.00766
Std Dev 1.003

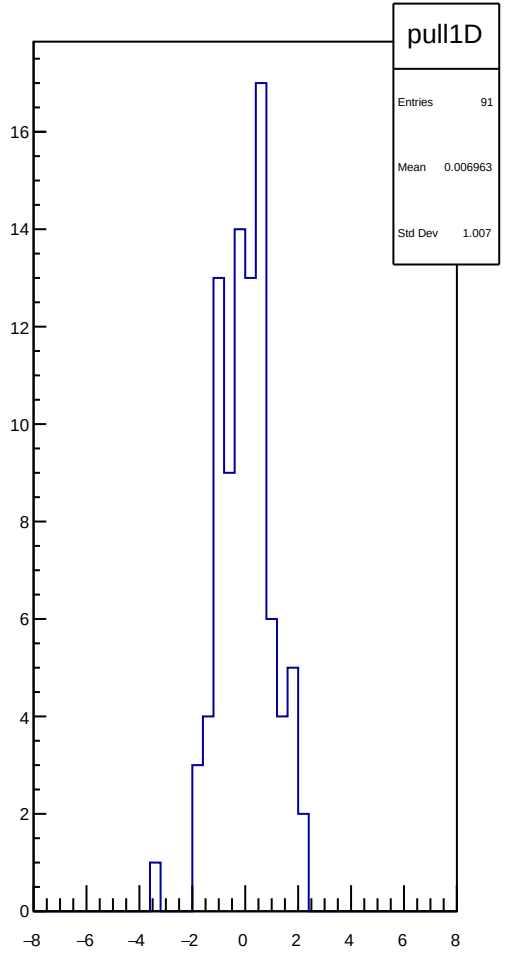

cor_asym_us_avg_rms vs run
χ² / ndf 578.6 / 90
p0 777.7 ± 0.5871
840
820
800
780
760


asym_us_avg_cor_correction_mean vs run
χ² / ndf 103.1 / 90
p0 −3978 ± 2211
×10³
100
50
0
−50
−100
pull
Entries 91
Mean −101.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01496
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 2.996e+04 / 90
p0 2053 ± 1.563
3200
3000
2800
2600
2400
2200
2000
1800
1600


overload_cor_asym_us_avg_mean vs run
χ² / ndf 92.26 / 90
p0 2292 ± 829.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 564.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.006963
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
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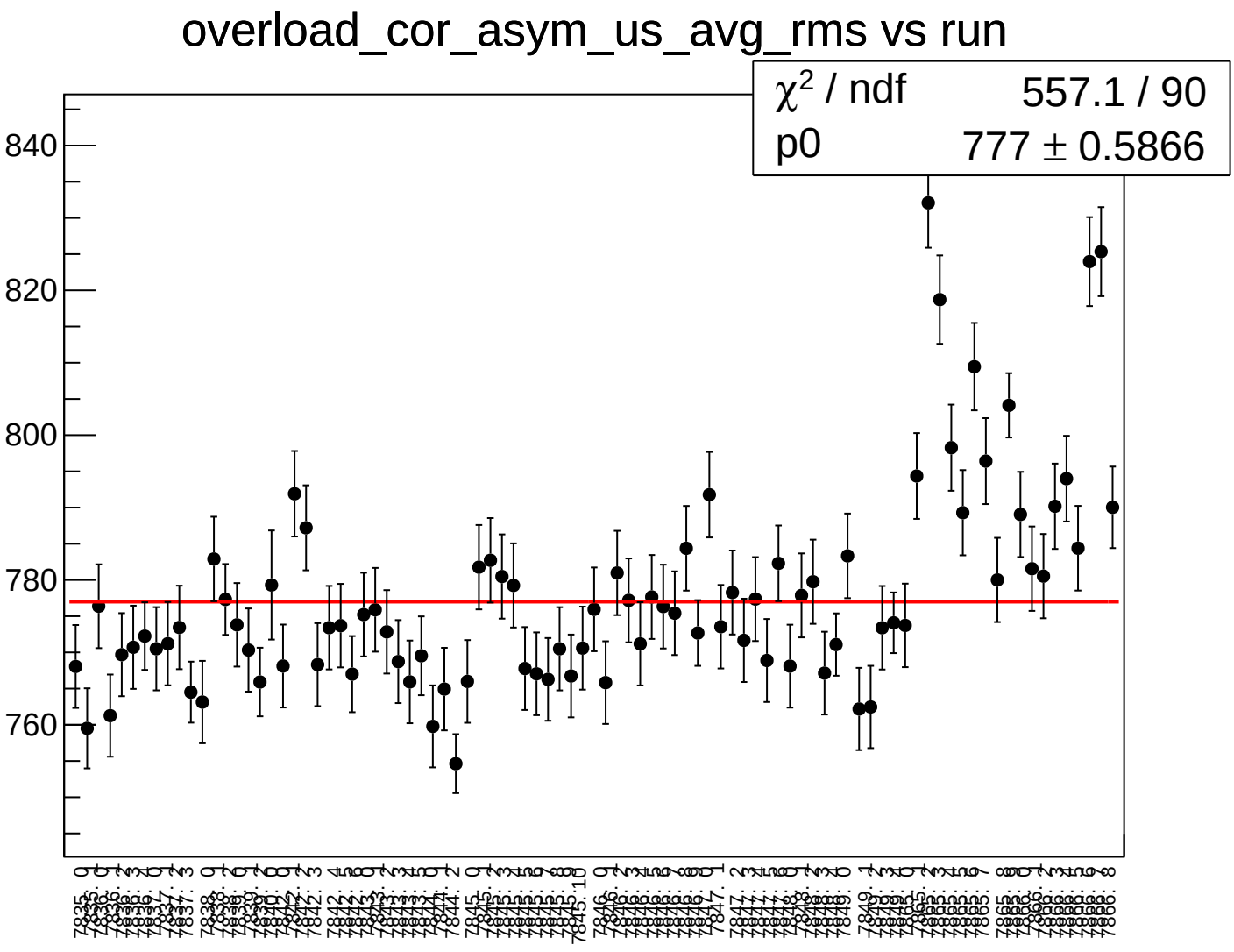
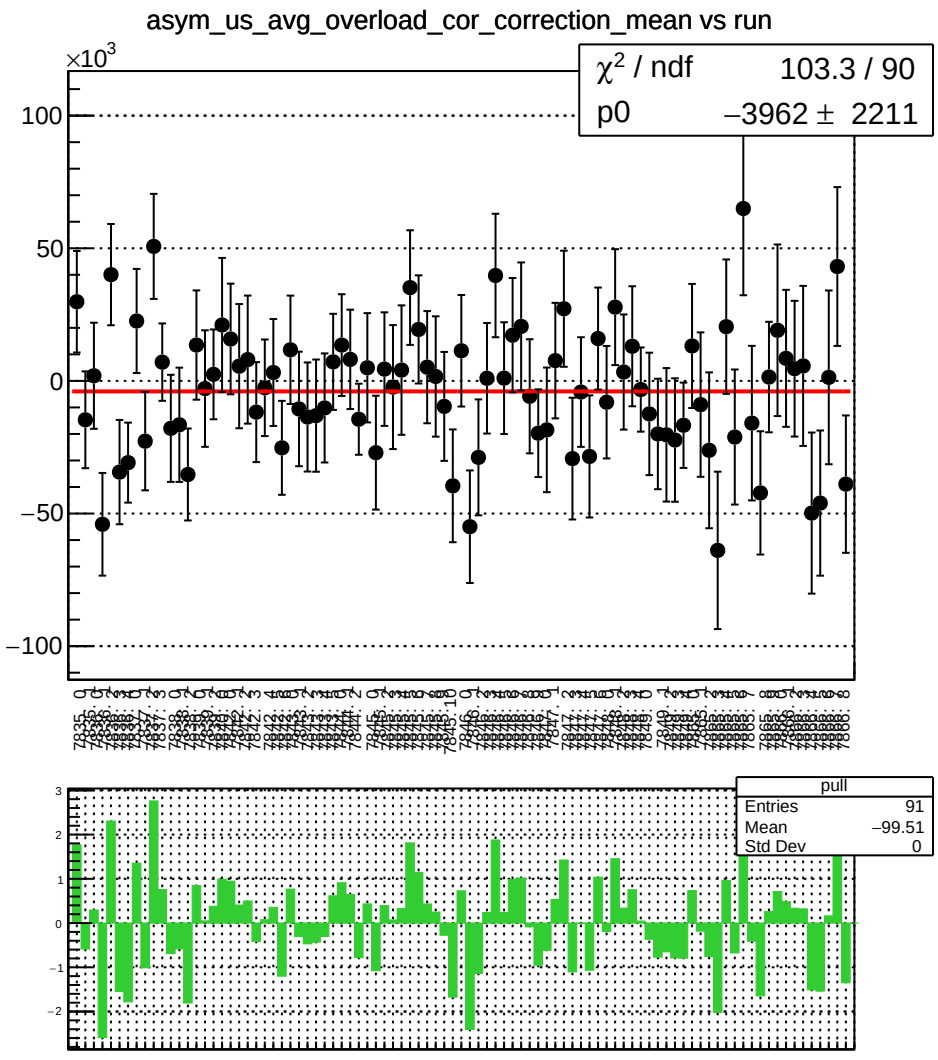
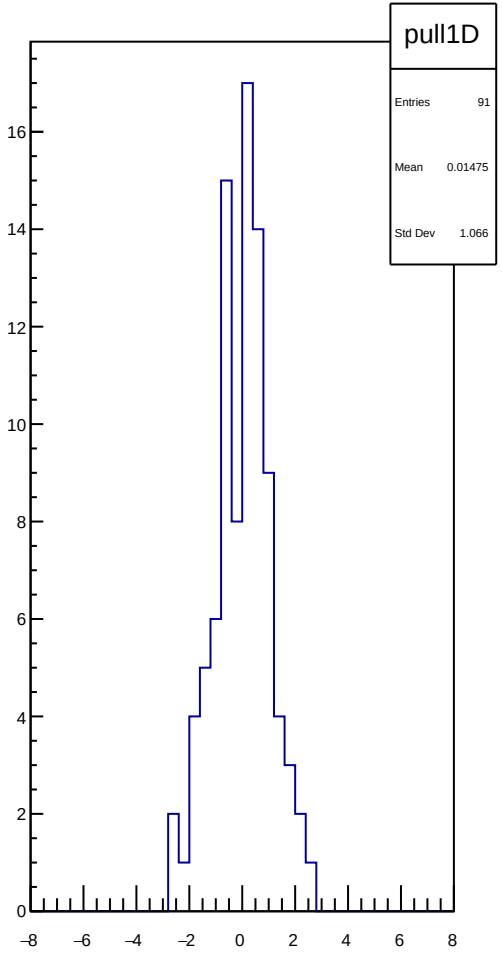
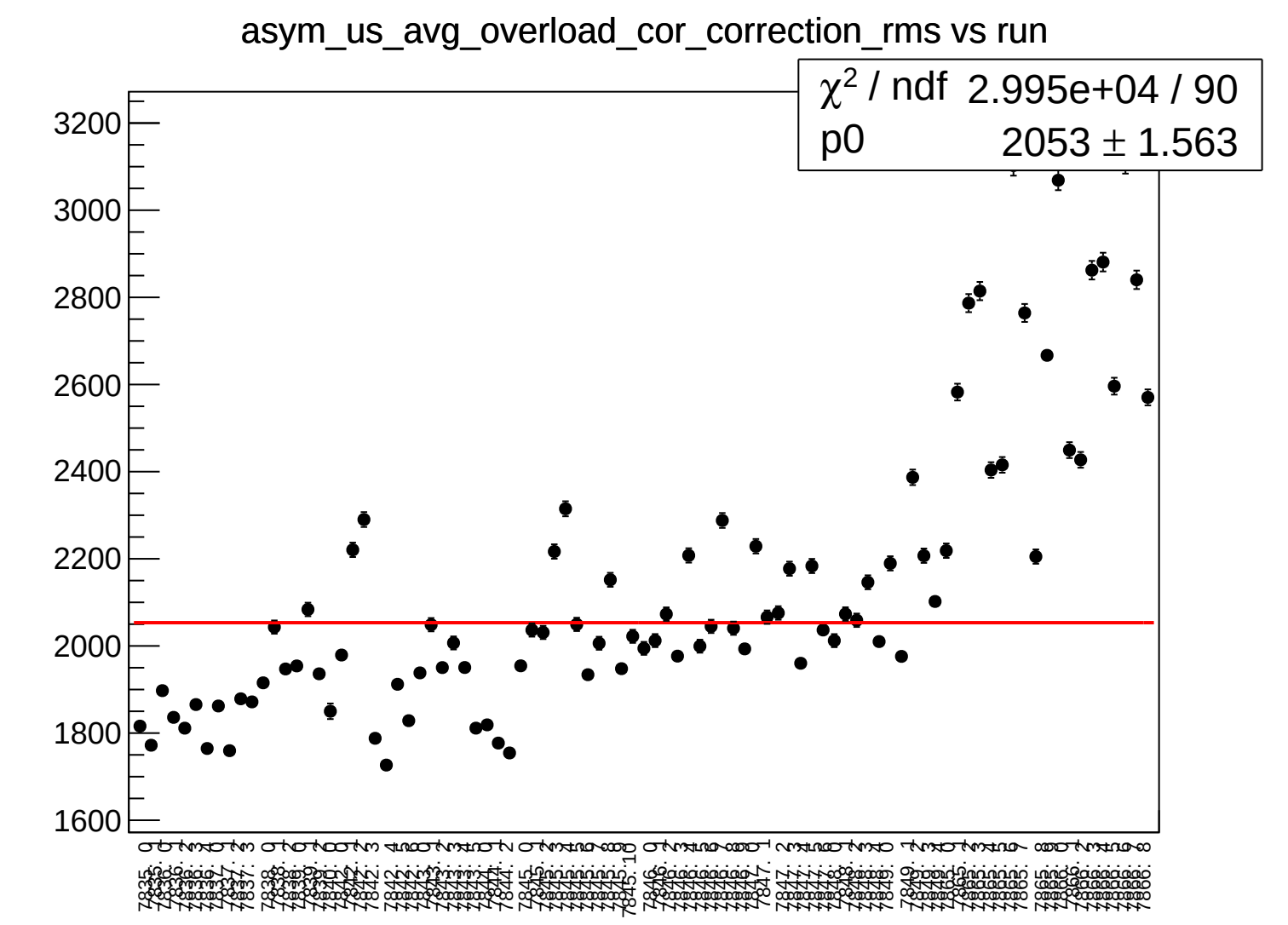
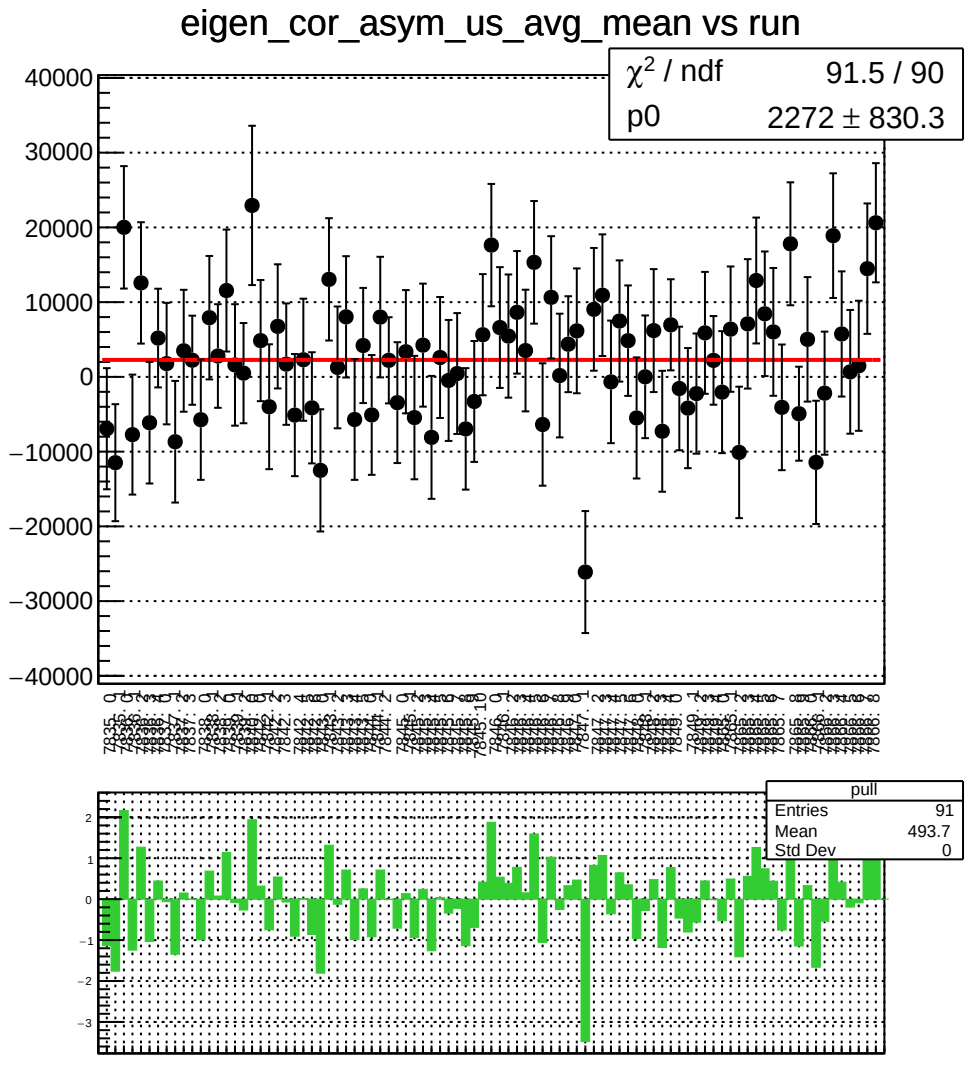
0
2
4
6
8

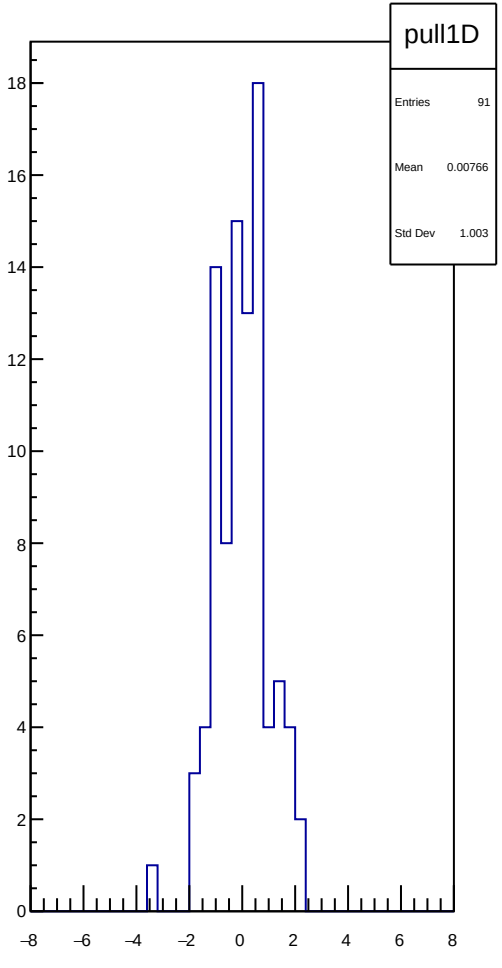

overload_cor_asym_us_avg_rms vs run
χ² / ndf 557.1 / 90
p0 777 ± 0.5866
840
820
800
780
760

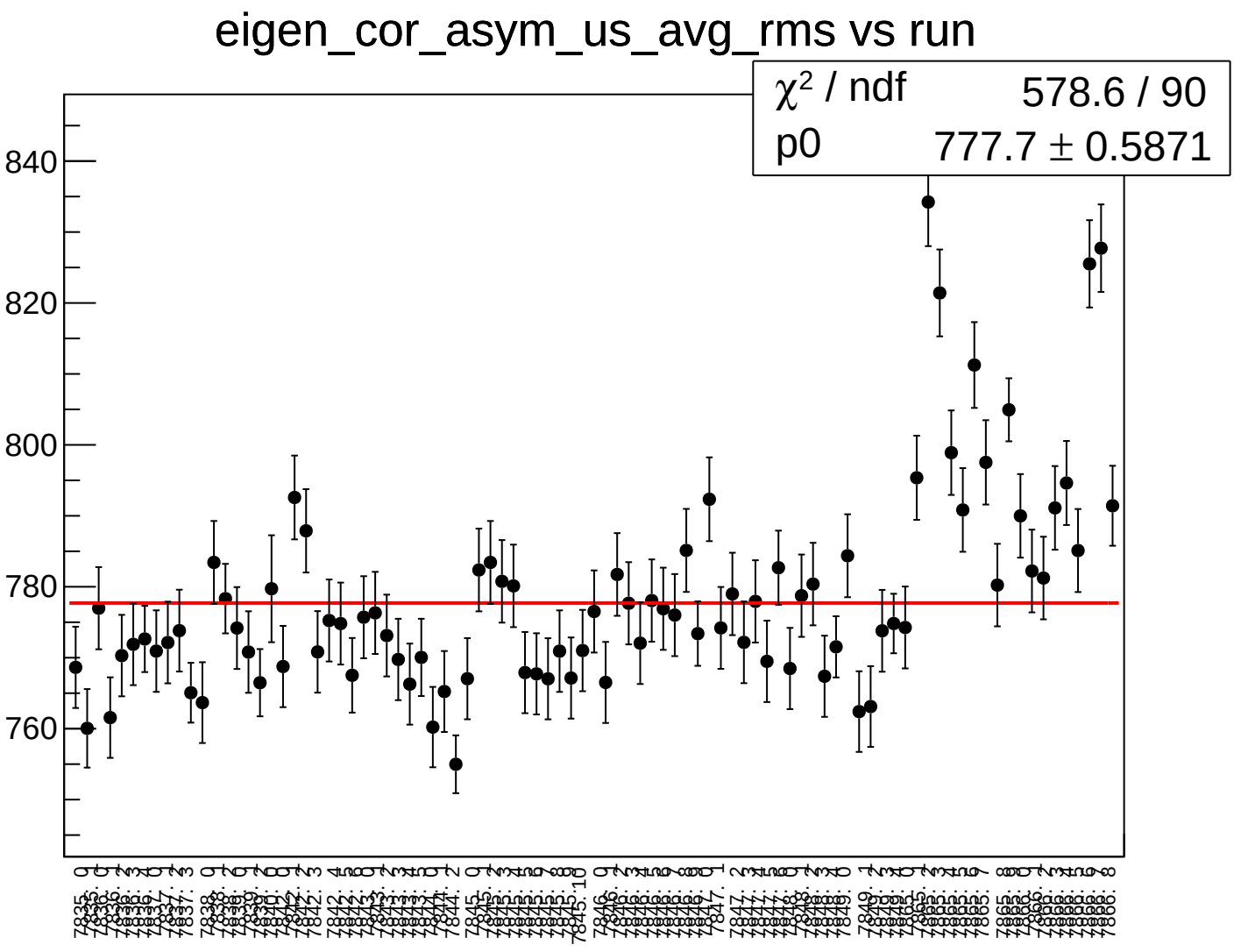

asym_us_avg_overload_cor_correction_mean vs run
×10^3
χ² / ndf 103.3 / 90
p0 −3962 ± 2211
pull
Entries 91
Mean −99.51
Std Dev 0

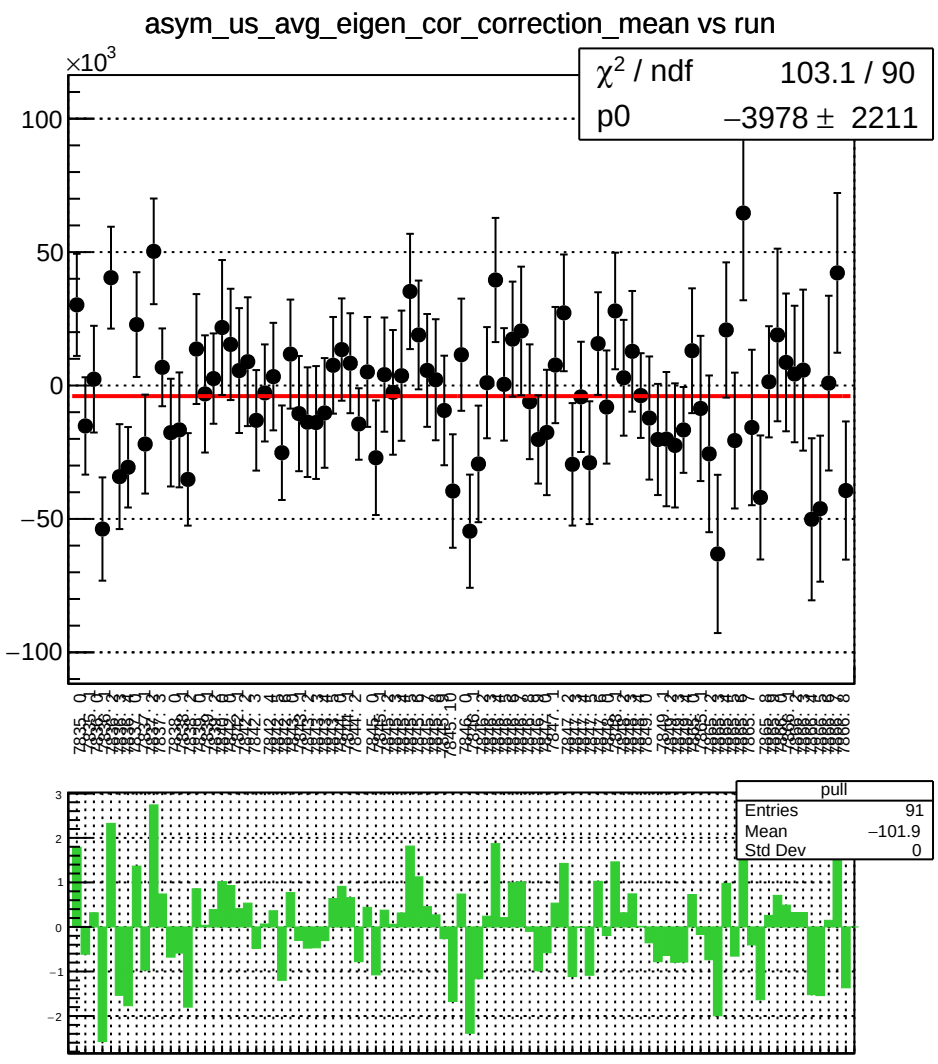

pull1D
Entries 91
Mean 0.01475
Std Dev 1.066

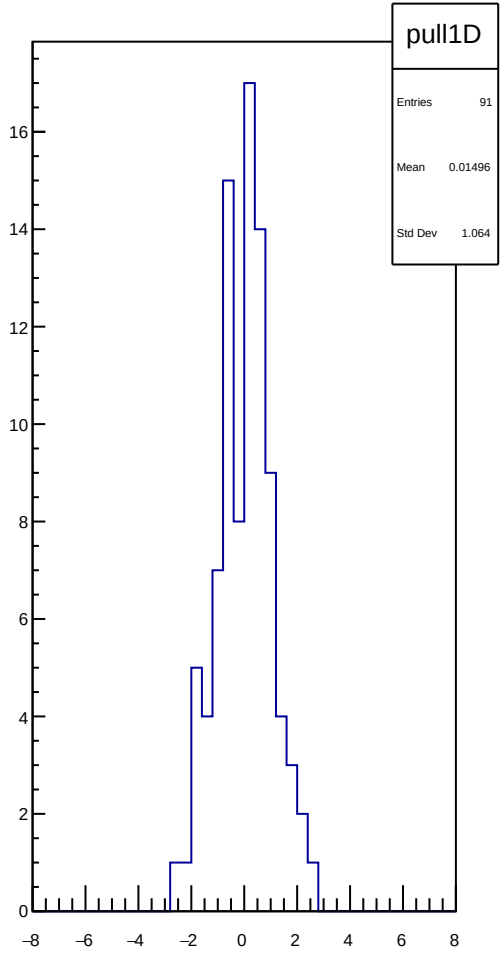

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2.995e+04 / 90
p0 2053 ± 1.563
3200
3000
2800
2600
2400
2200
2000
1800
1600

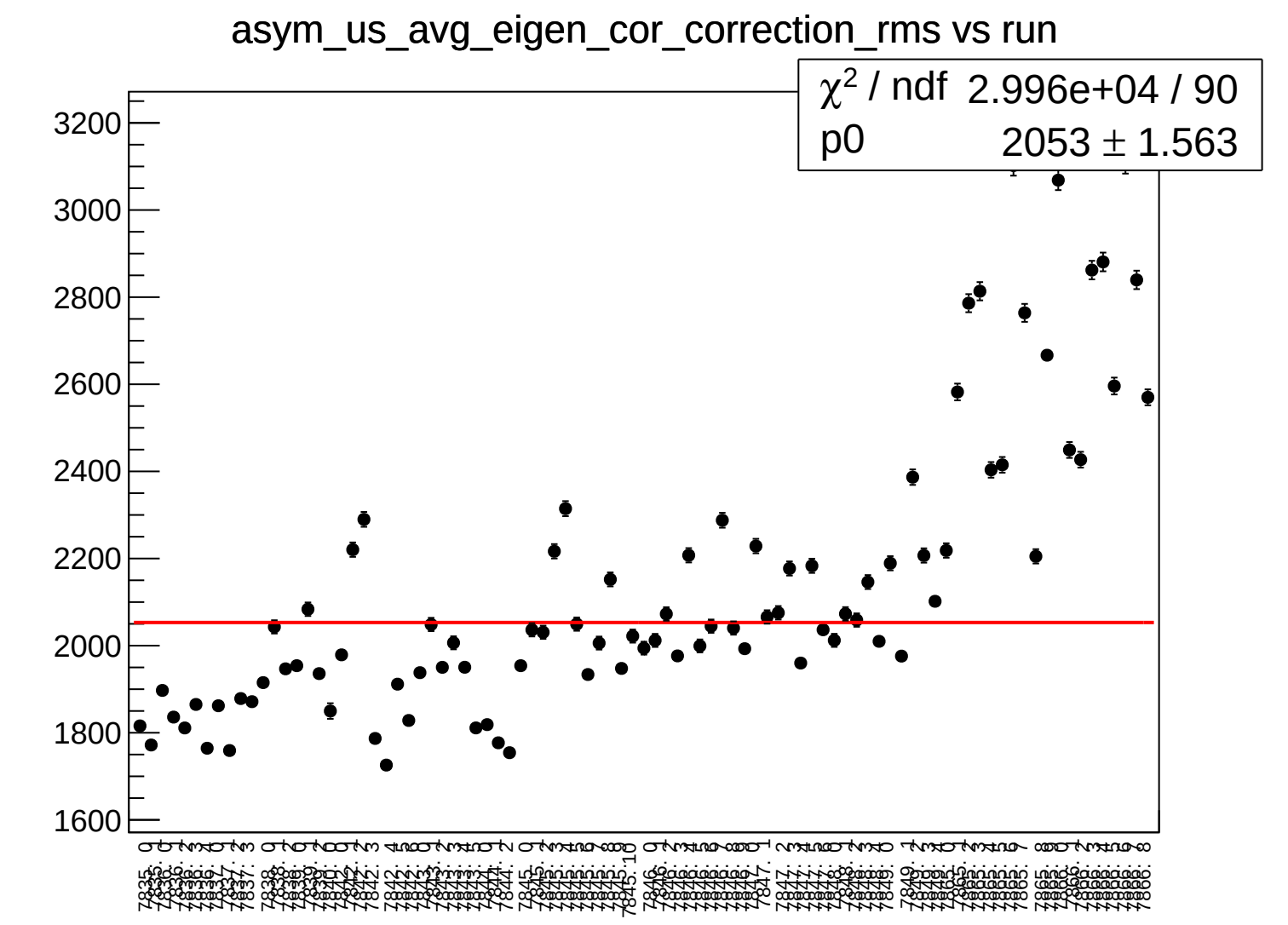

eigen_cor_asym_us_avg_mean vs run
χ^2 / ndf 91.5 / 90
p0 2272 ± 830.3
pull
Entries 91
Mean 493.7
Std Dev 0

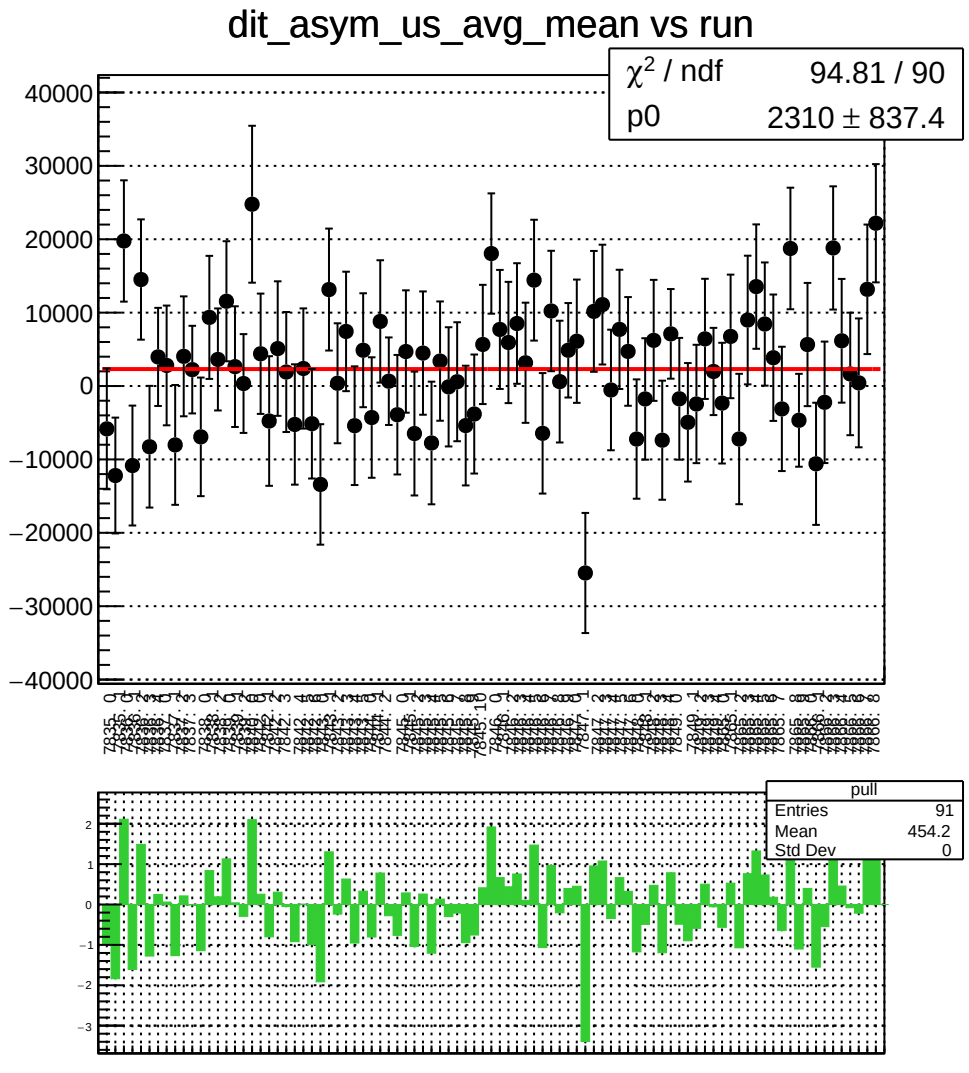

pull1D
Entries 91
Mean 0.00766
Std Dev 1.003

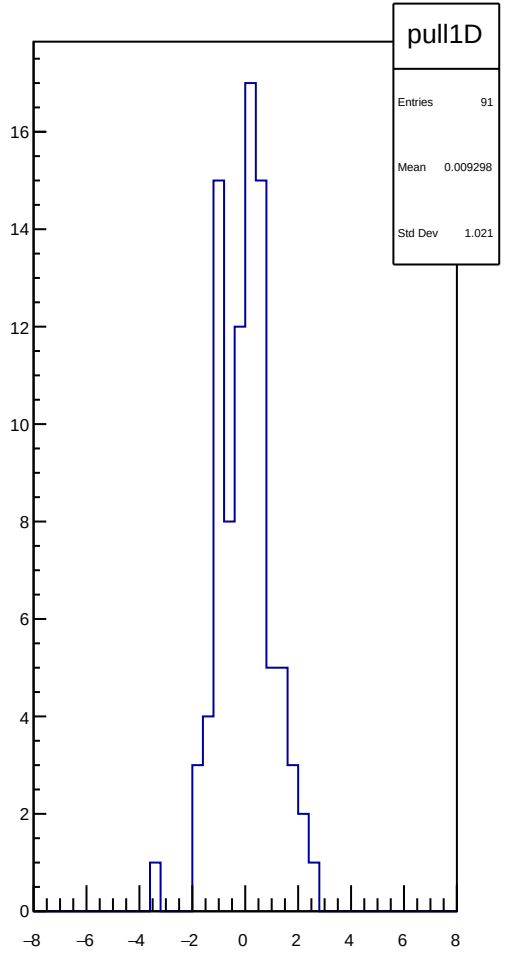

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 578.6 / 90
p0 777.7 ± 0.5871
840
820
800
780
760

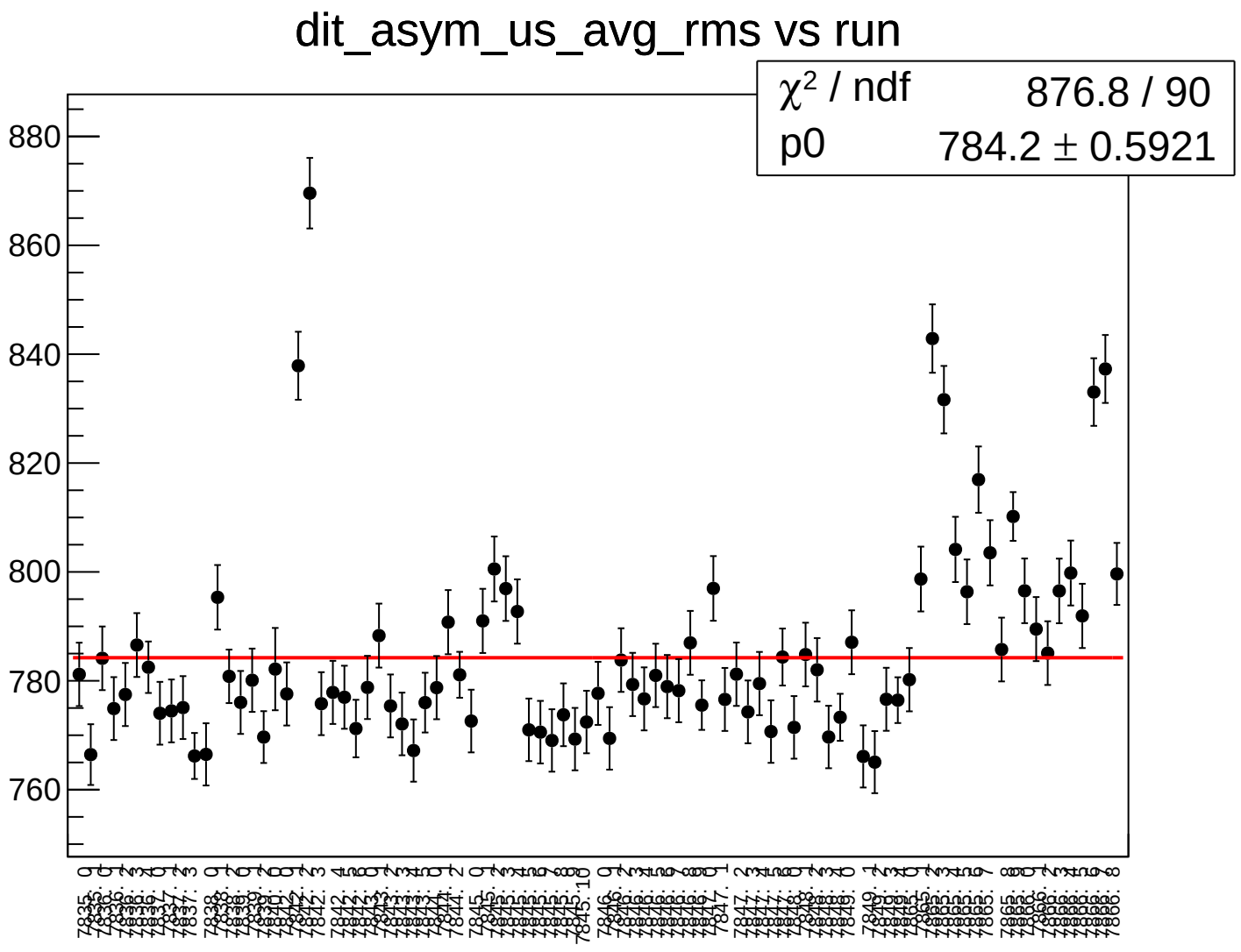

asym_us_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.1 / 90
p0 −3978 ± 2211
100
50
0
−50
−100
pull
Entries 91
Mean −101.9
Std Dev 0
3
2
1
0
−1
−2

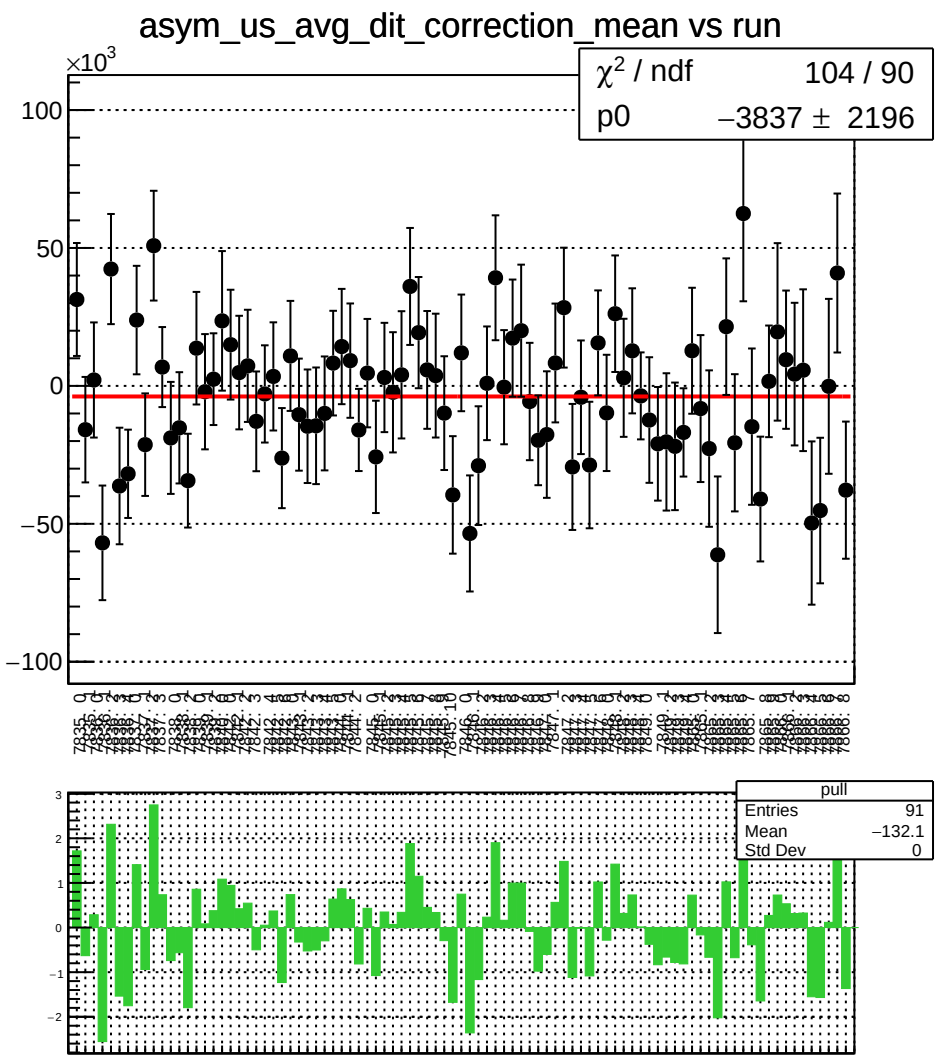

pull1D
Entries 91
Mean 0.01496
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

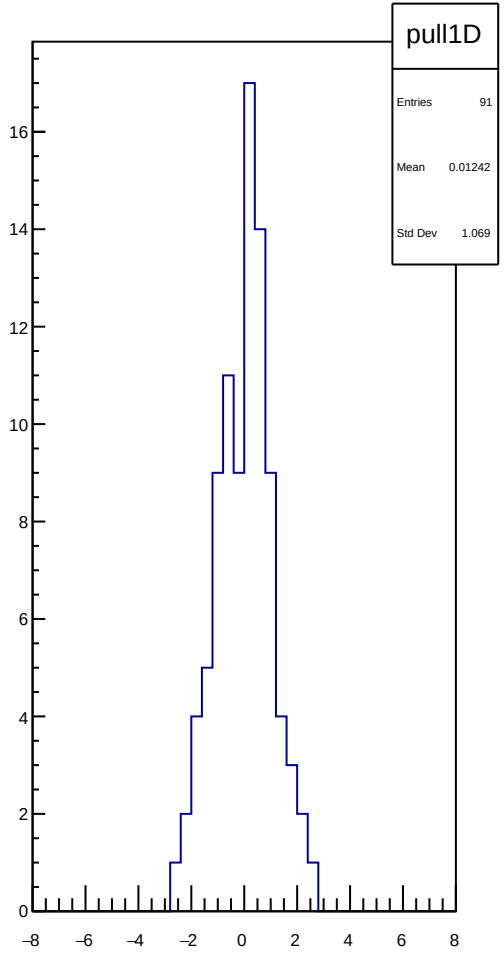

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.996e+04 / 90
p0 2053 ± 1.563
3200
3000
2800
2600
2400
2200
2000
1800
1600


dit_asym_us_avg_mean vs run
χ² / ndf 94.81 / 90
p0 2310 ± 837.4
pull
Entries 91
Mean 454.2
Std Dev 0


pull1D
Entries 91
Mean 0.009298
Std Dev 1.021


dit_asym_us_avg_rms vs run
χ² / ndf 876.8 / 90
p0 784.2 ± 0.5921
880
860
840
820
800
780
760


asym_us_avg_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 90
p0 −3837 ± 2196
100
50
0
−50
−100
pull
Entries 91
Mean −132.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01242
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
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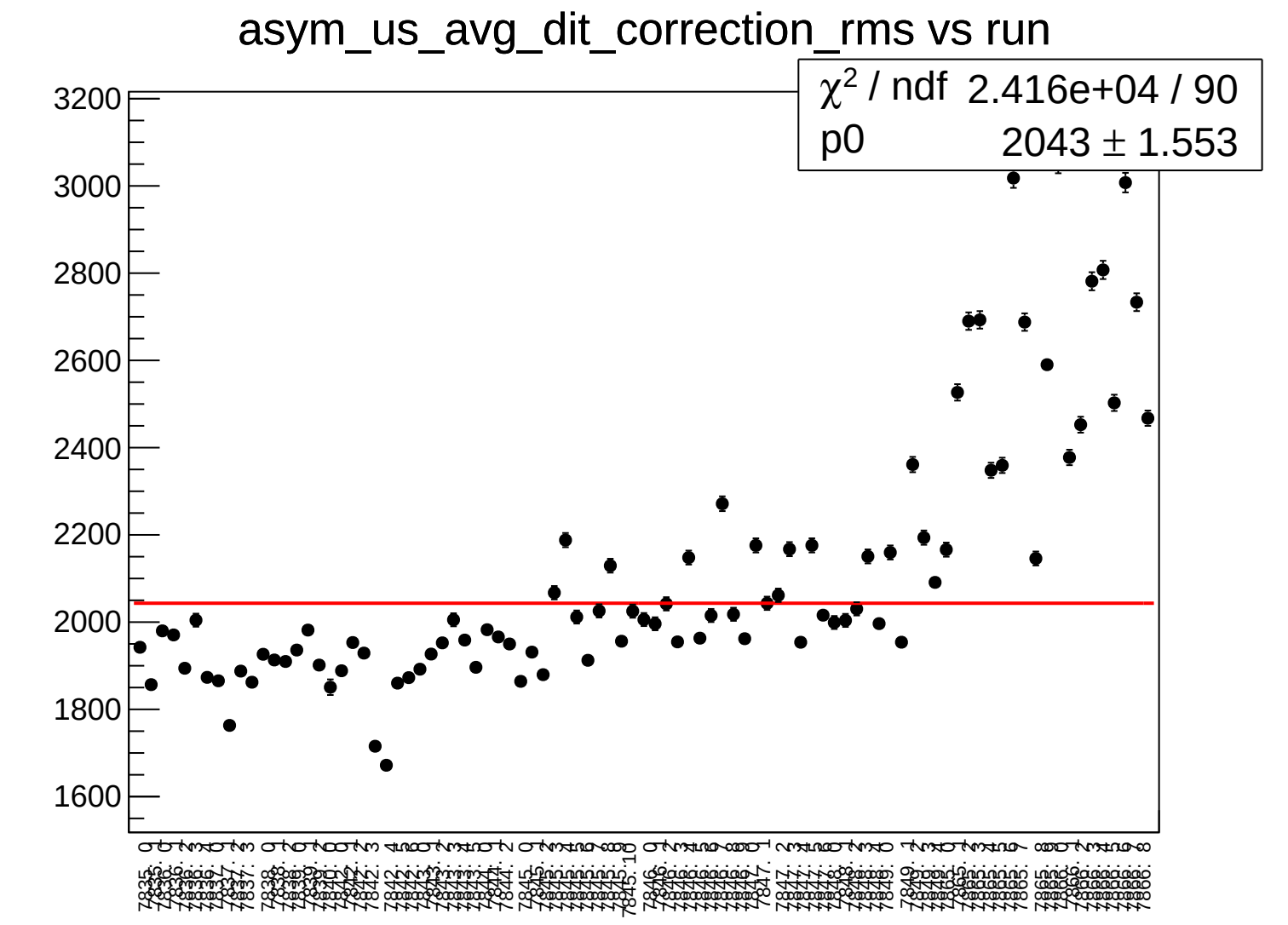
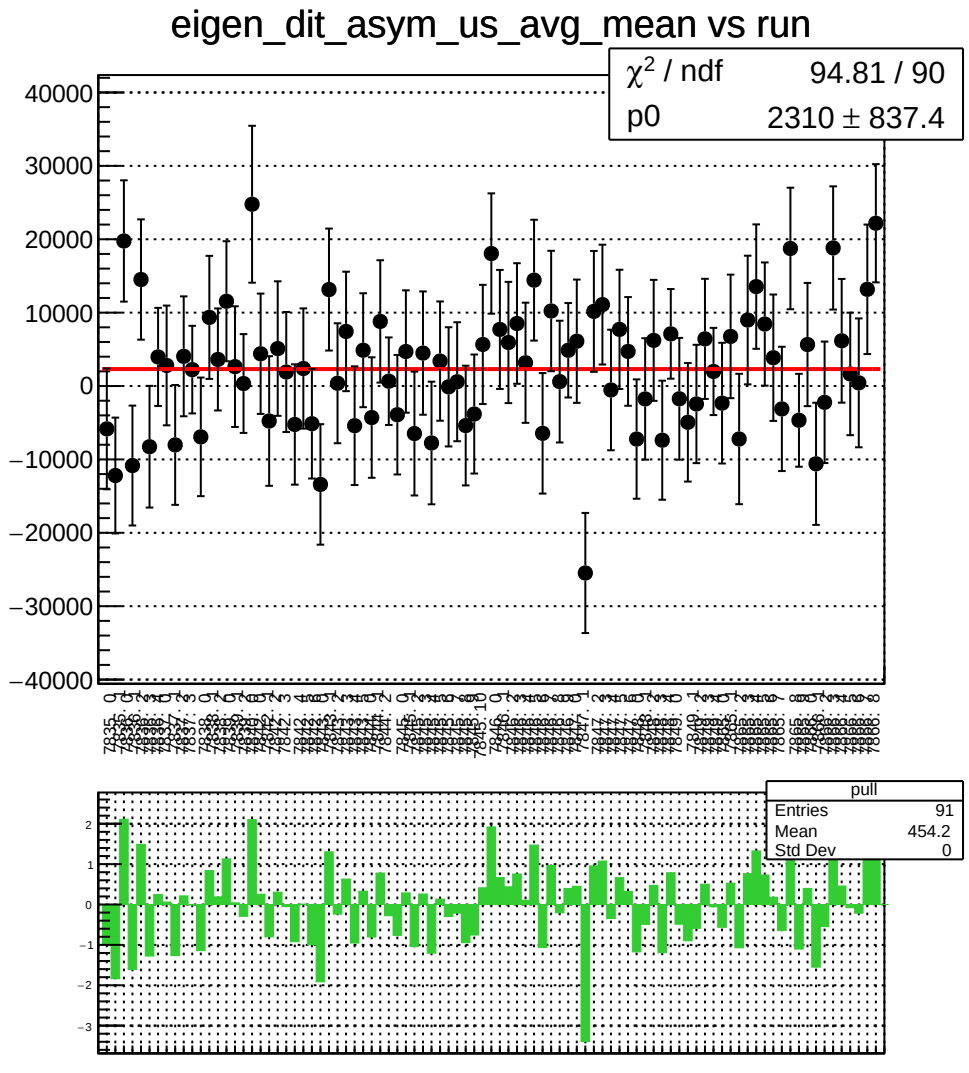
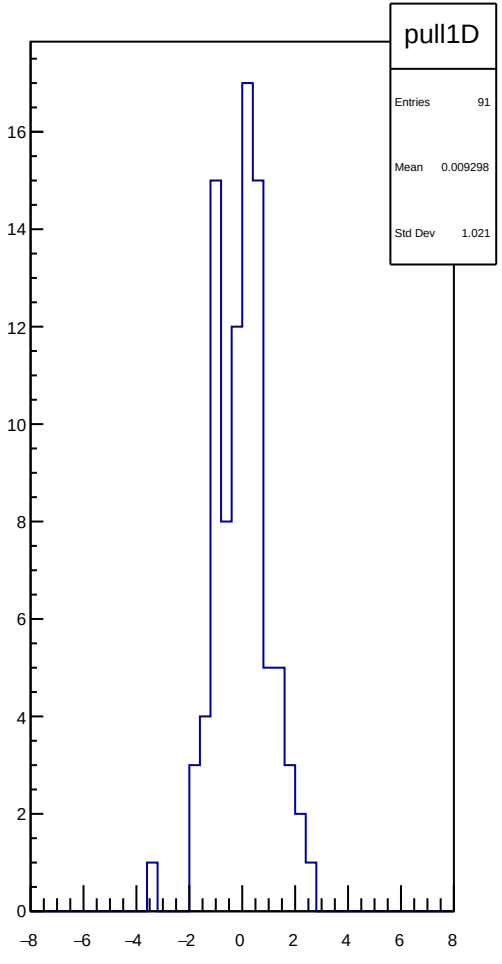
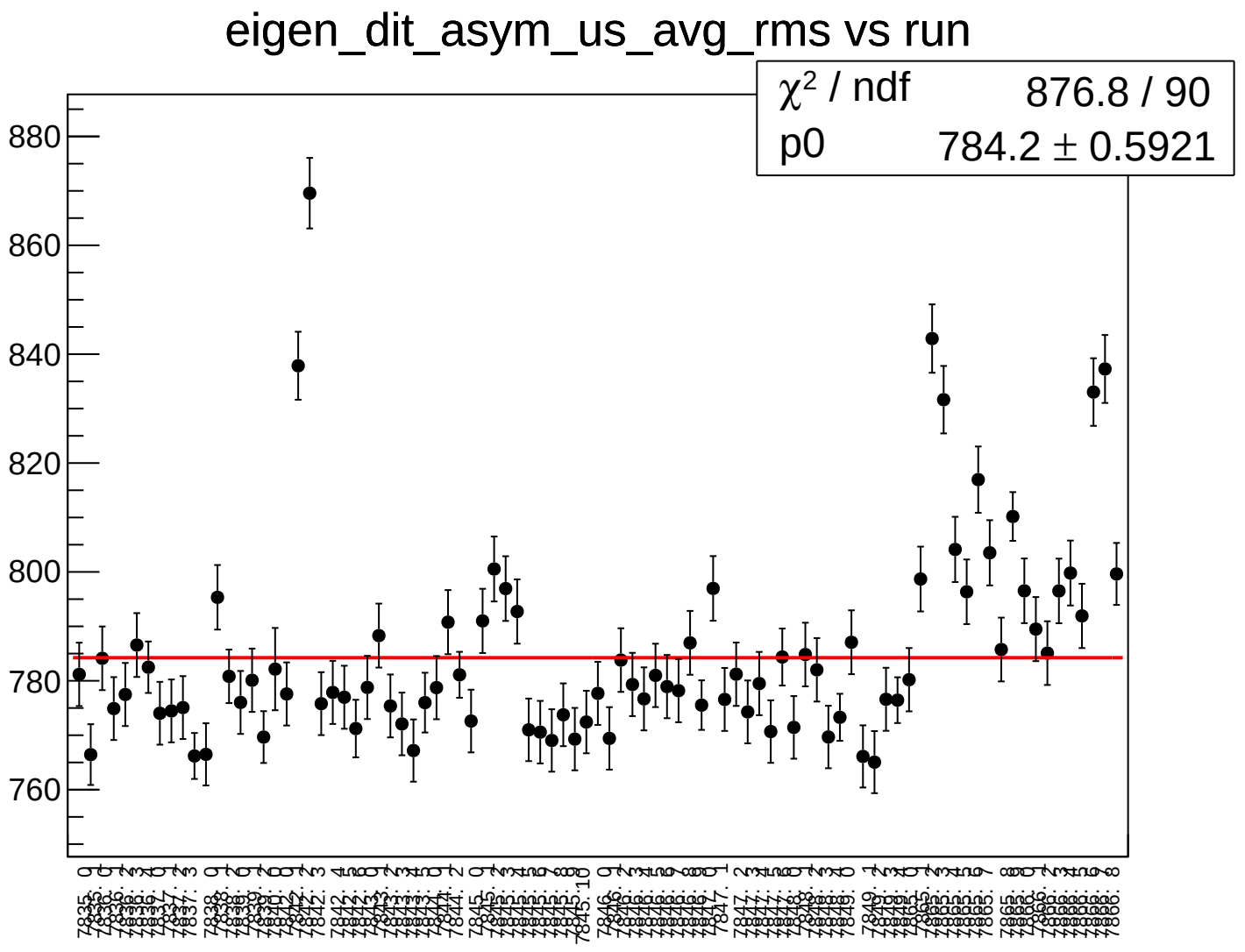
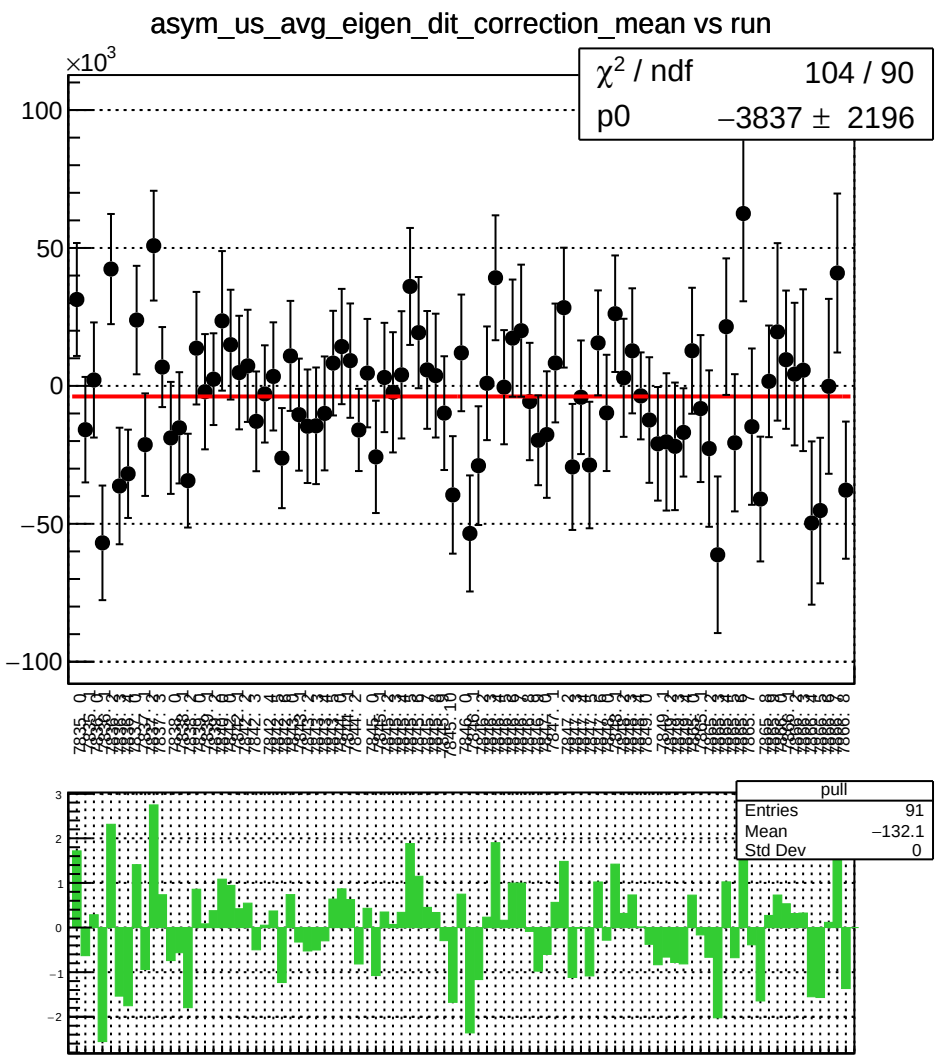
0
2
4
6
8

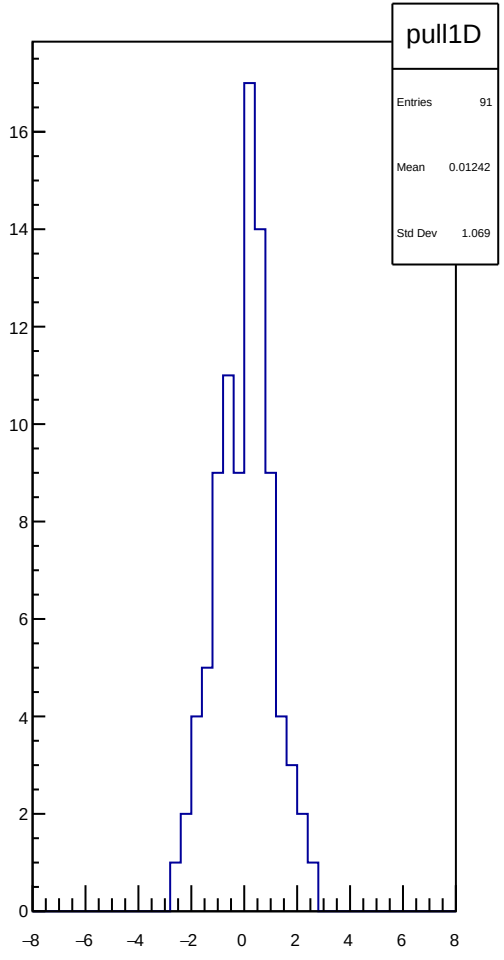

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2.416e+04 / 90
p0 2043 ± 1.553
3200
3000
2800
2600
2400
2200
2000
1800
1600

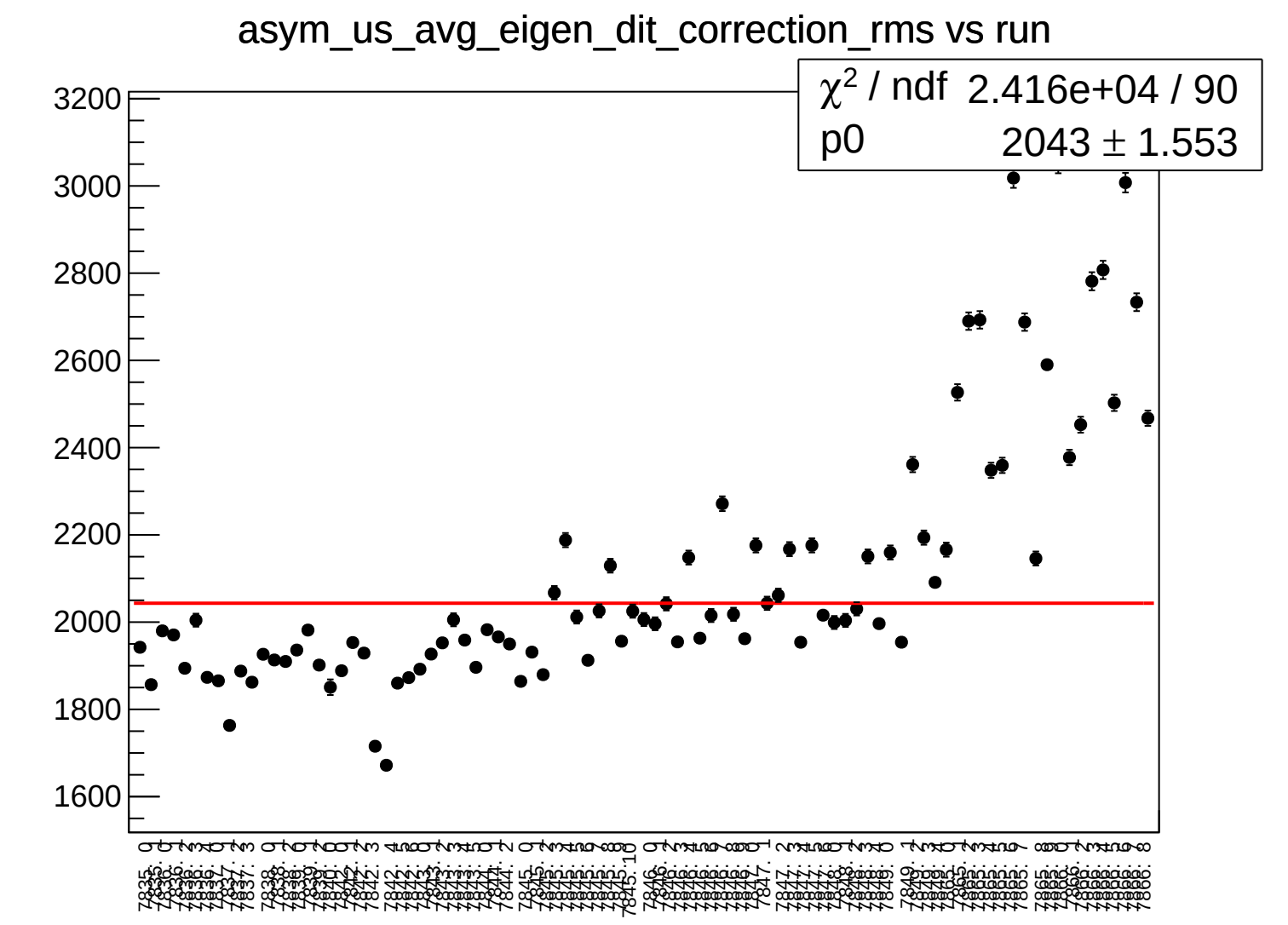

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 94.81 / 90
p0 2310 ± 837.4
pull
Entries 91
Mean 454.2
Std Dev 0

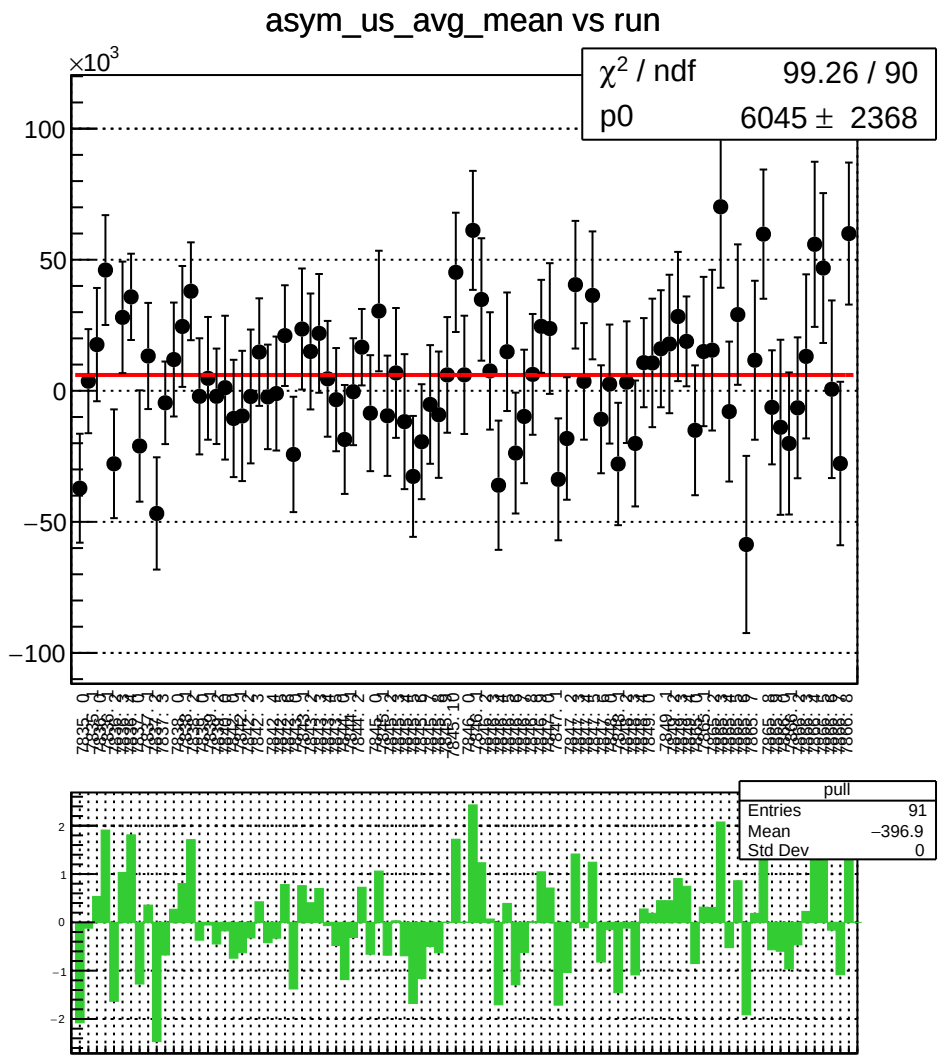

pull1D
Entries 91
Mean 0.009298
Std Dev 1.021

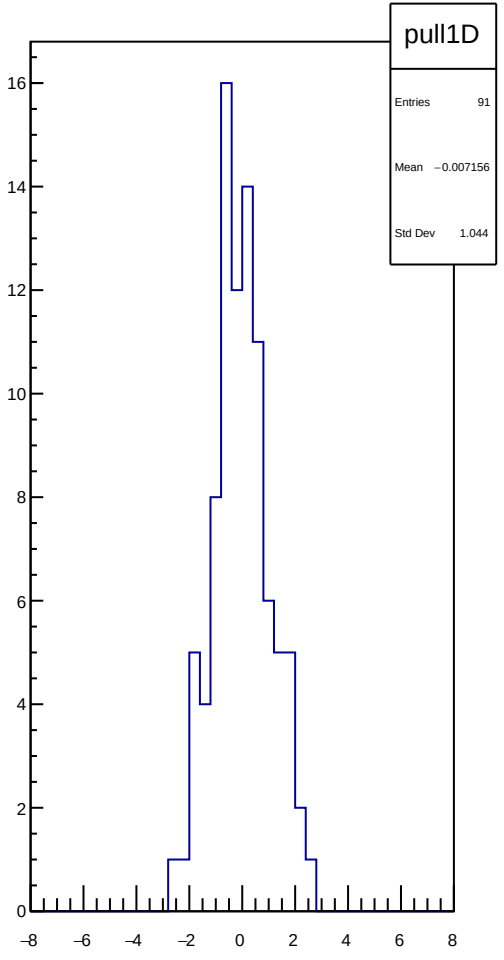

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 876.8 / 90
p0 784.2 ± 0.5921
880
860
840
820
800
780
760


asym_us_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 90
p0 −3837 ± 2196
100
50
0
−50
−100
pull
Entries 91
Mean −132.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01242
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.416e+04 / 90
p0 2043 ± 1.553
3200
3000
2800
2600
2400
2200
2000
1800
1600


asym_us_avg_mean vs run
×10^3
χ² / ndf 99.26 / 90
p0 6045 ± 2368
100
50
0
−50
−100
pull
Entries 91
Mean −396.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.007156
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
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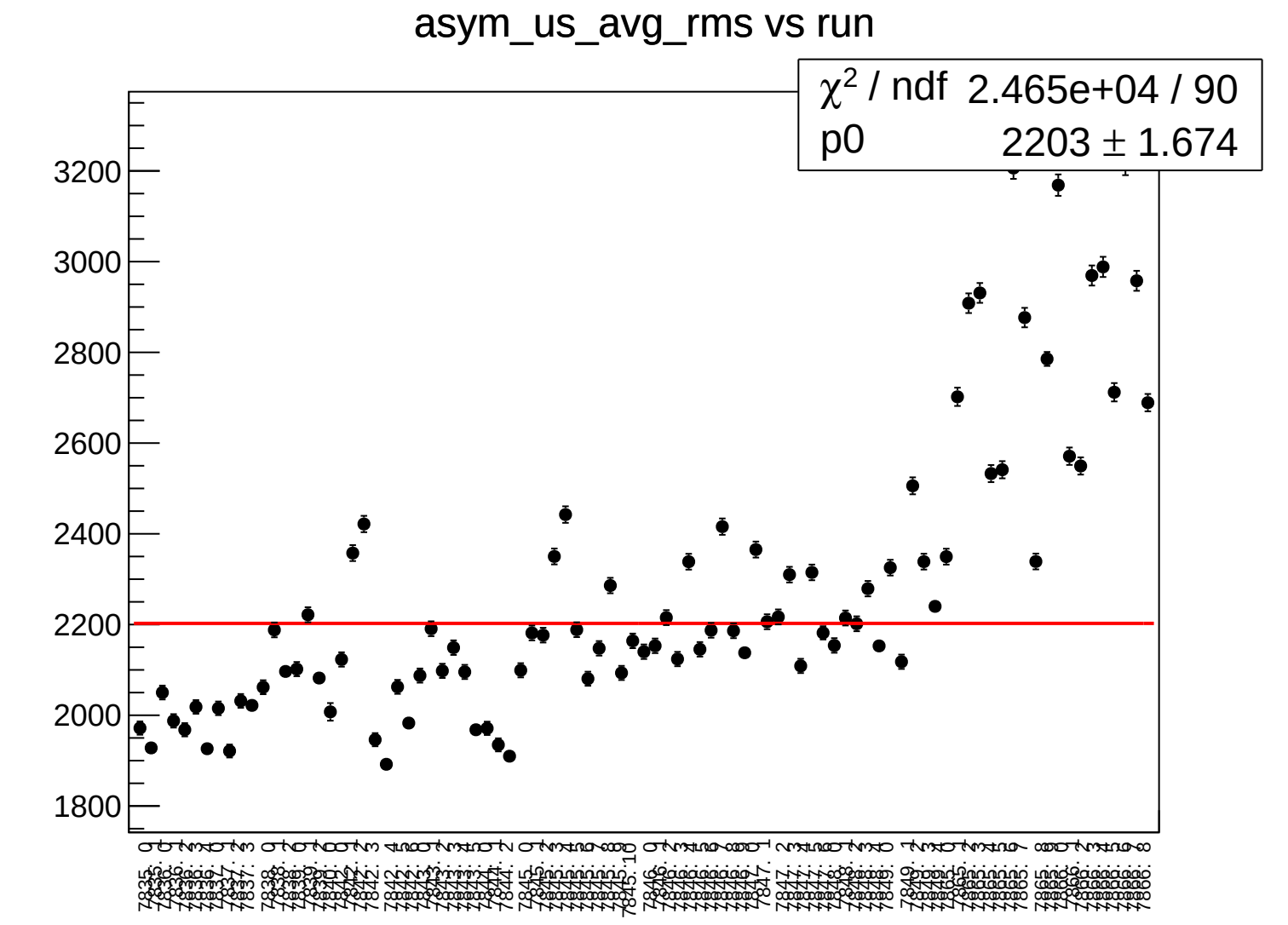
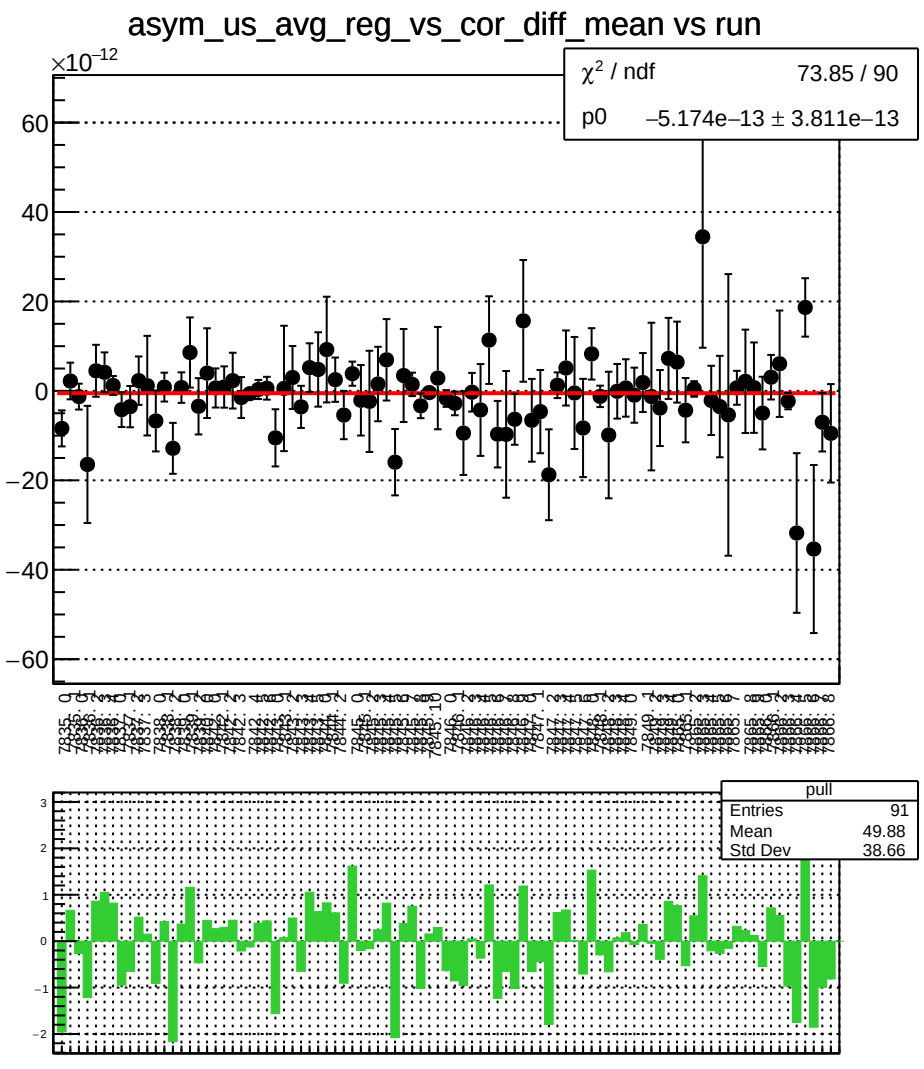
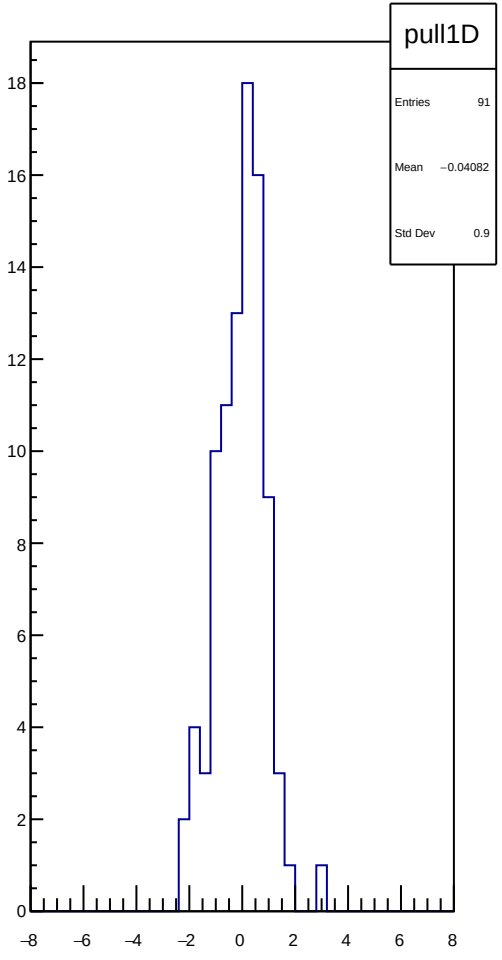
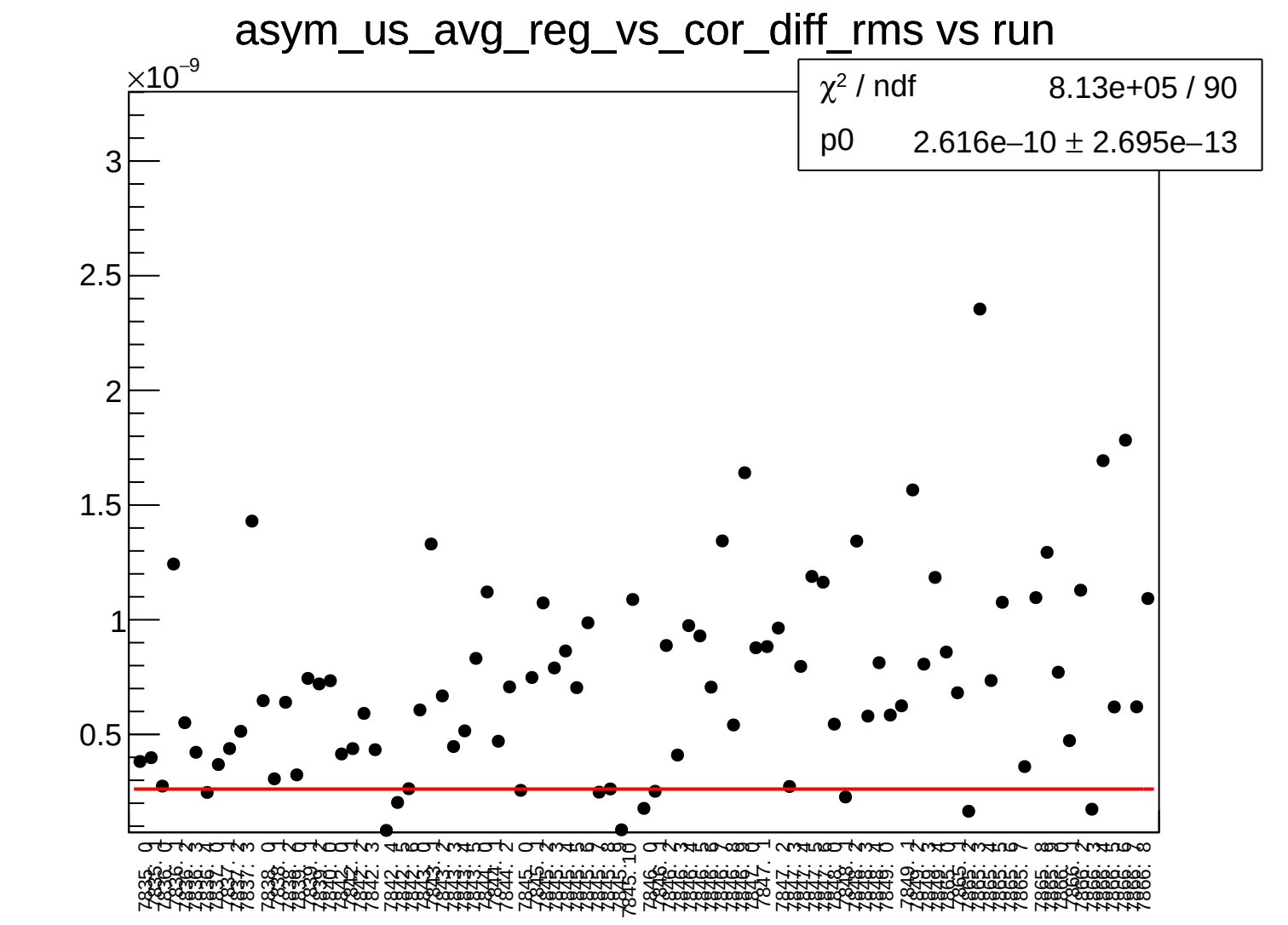
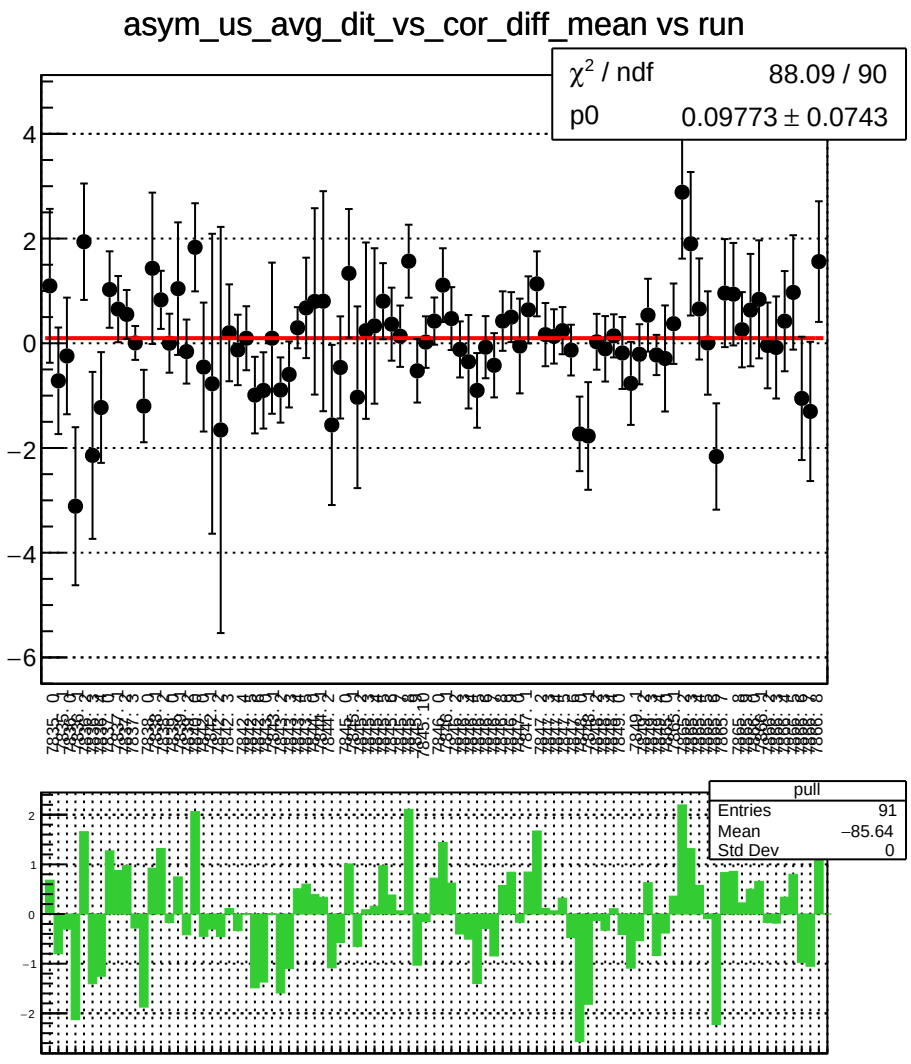
0
2
4
6
8

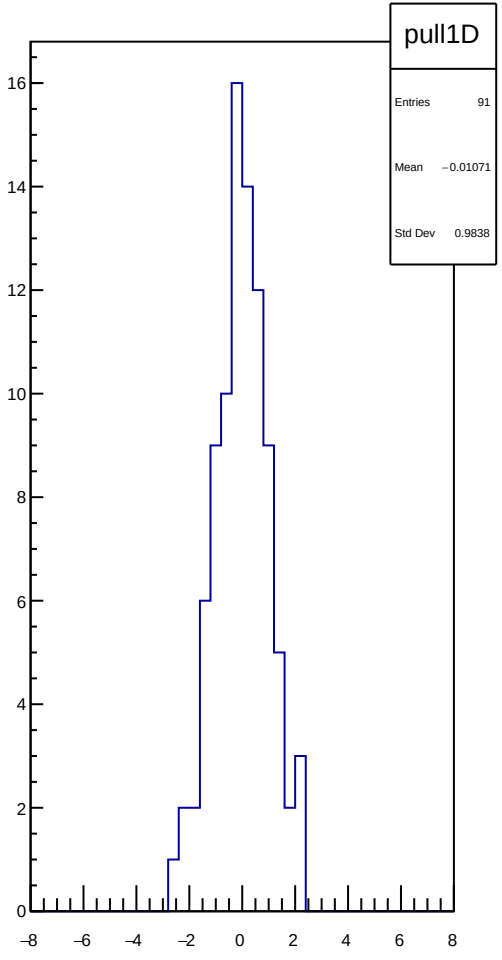

asym_us_avg_rms vs run
χ² / ndf 2.465e+04 / 90
p0 2203 ± 1.674
3200
3000
2800
2600
2400
2200
2000
1800

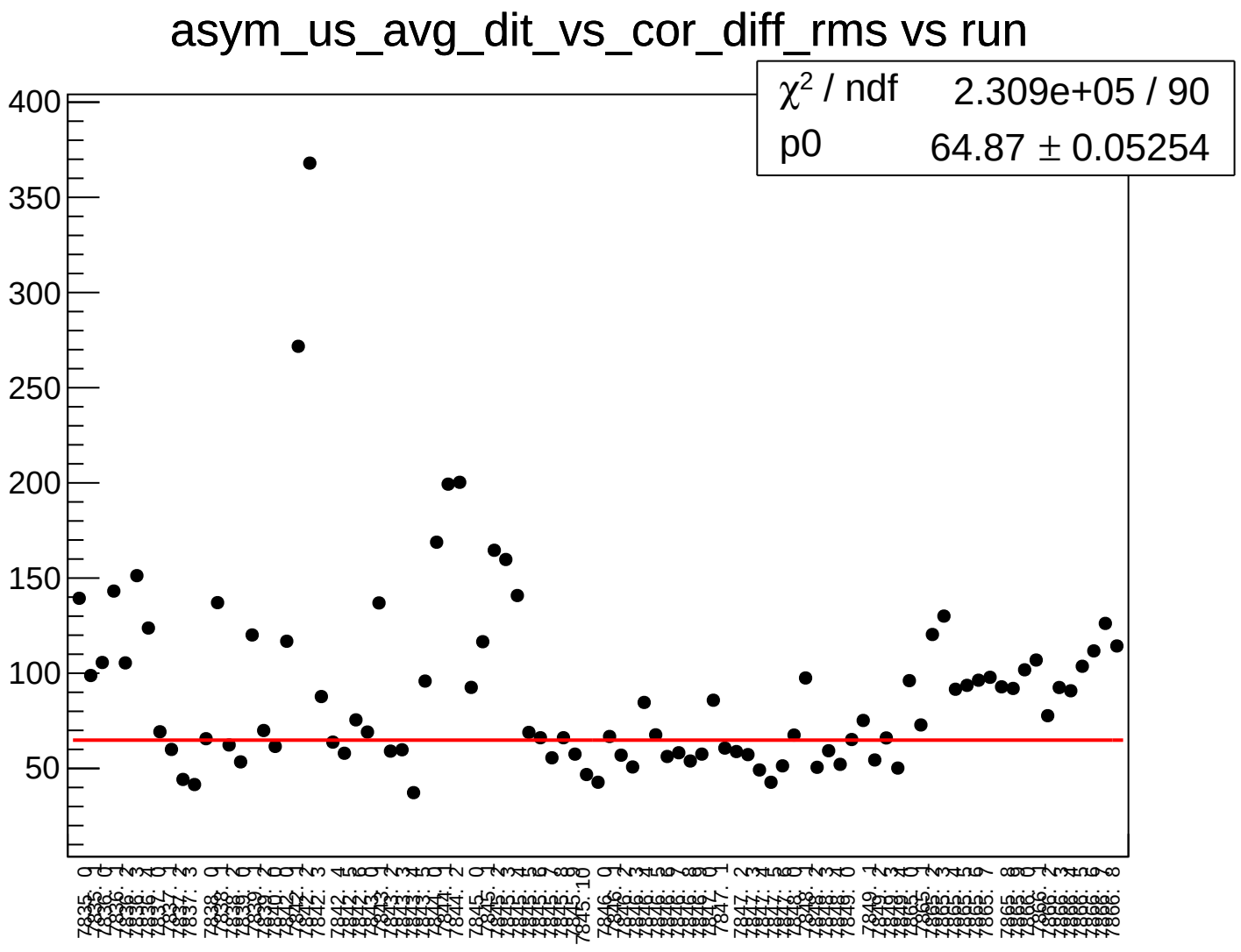

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.85 / 90
p0 −5.174e−13 ± 3.811e−13
pull
Entries 91
Mean 49.88
Std Dev 38.66

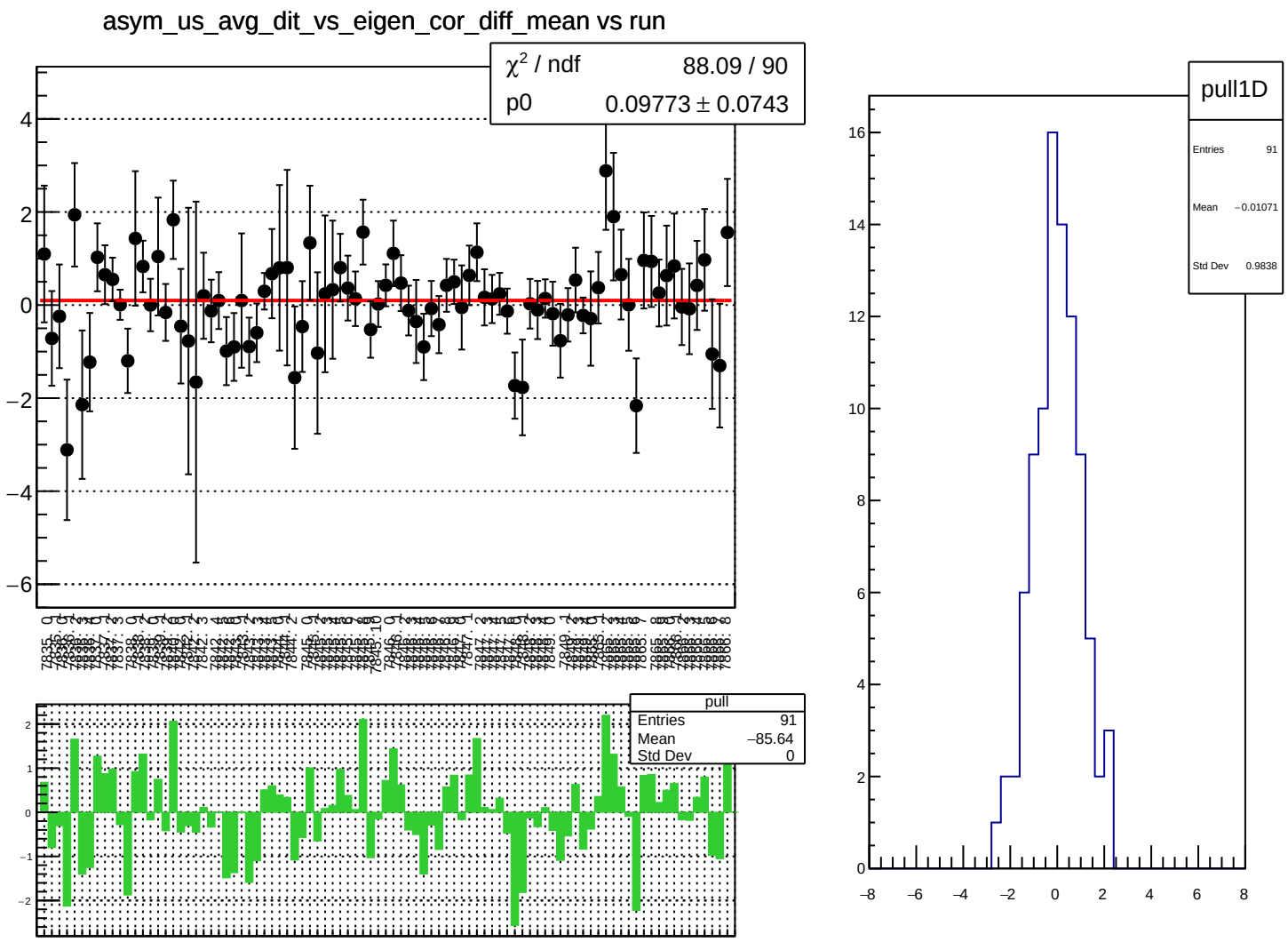

pull1D
Entries 91
Mean −0.04082
Std Dev 0.9

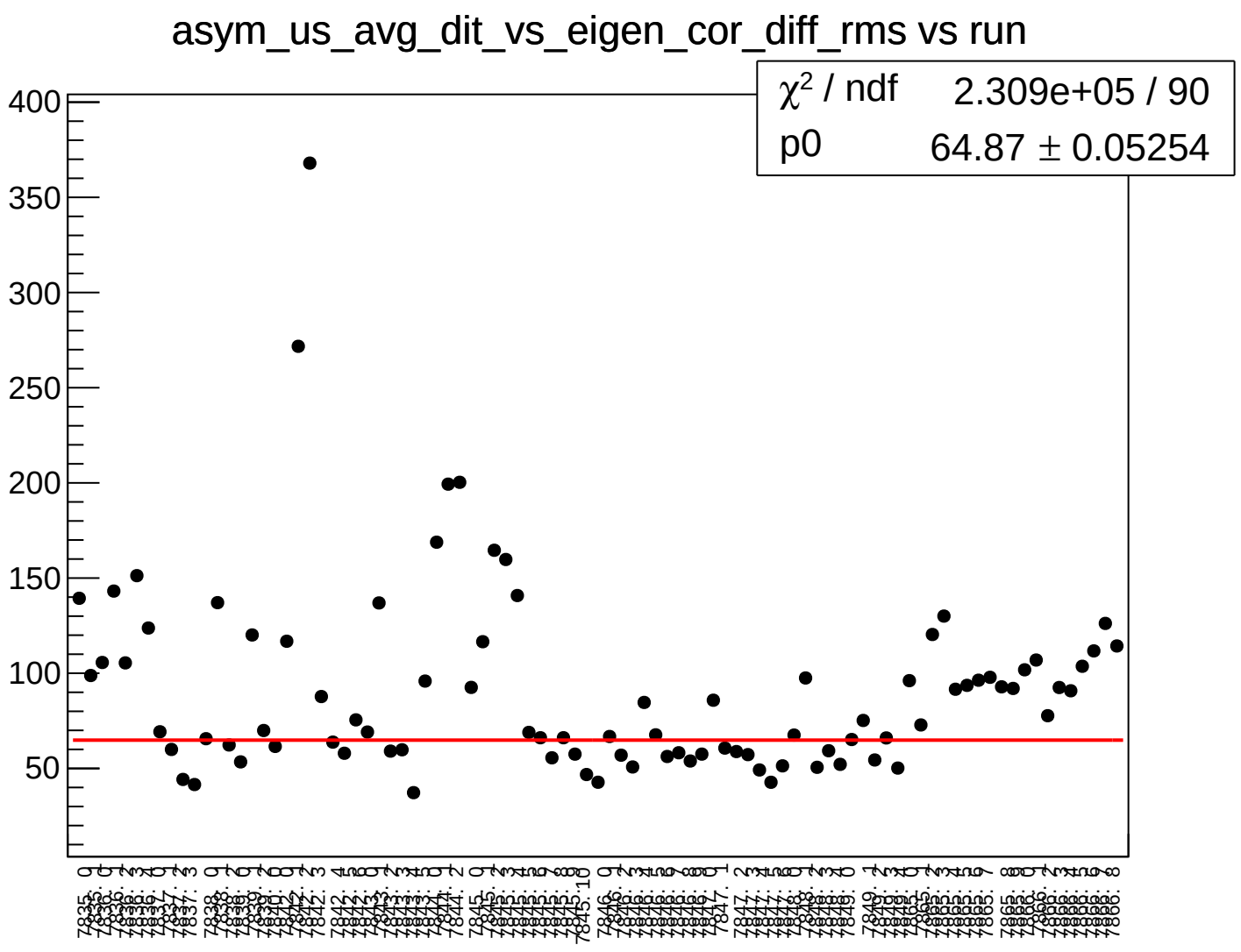

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.13e+05 / 90
p0 2.616e−10 ± 2.695e−13
3
2.5
2
1.5
1
0.5

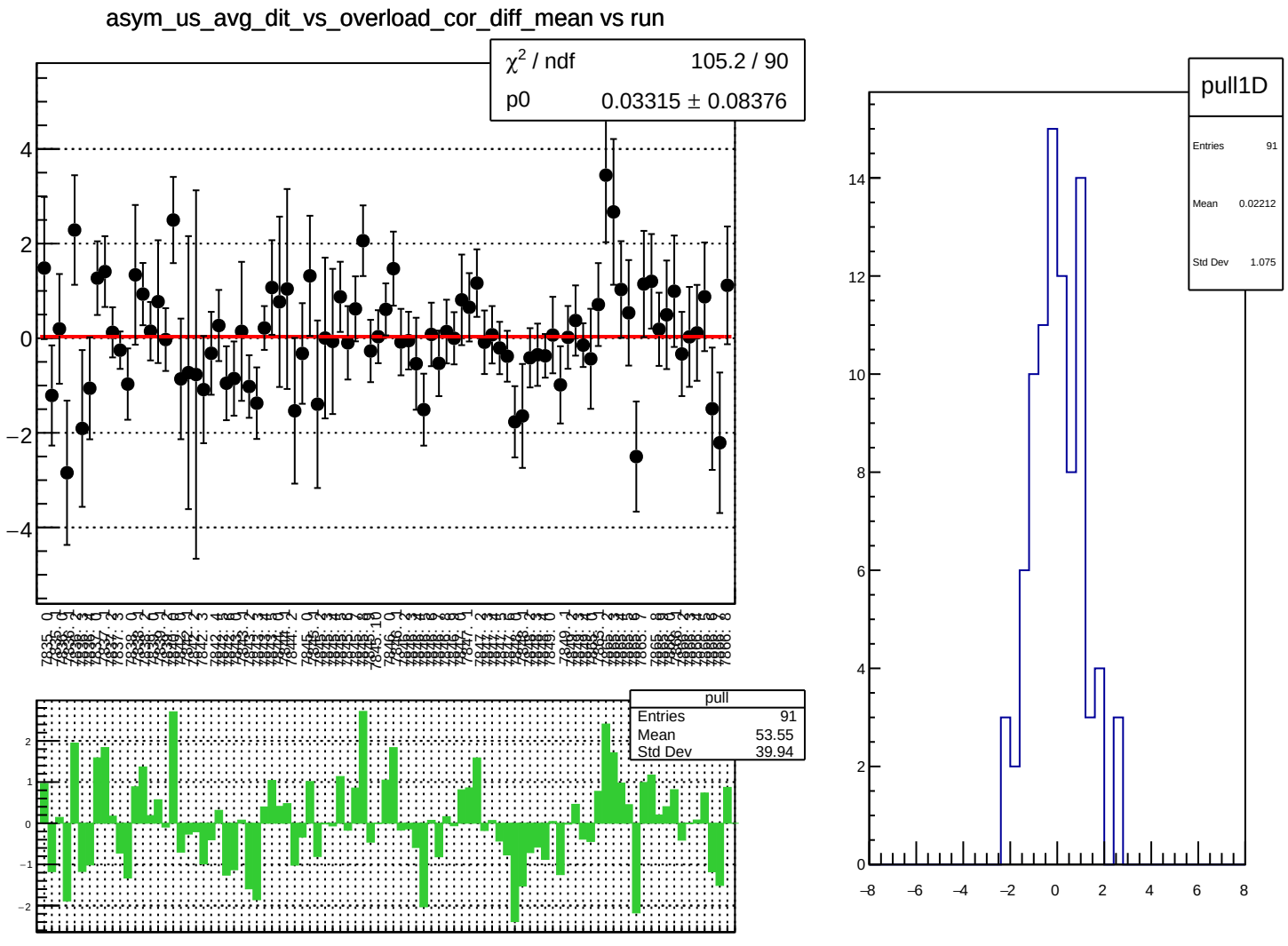

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.09773 ± 0.0743
pull
Entries 91
Mean −85.64
Std Dev 0

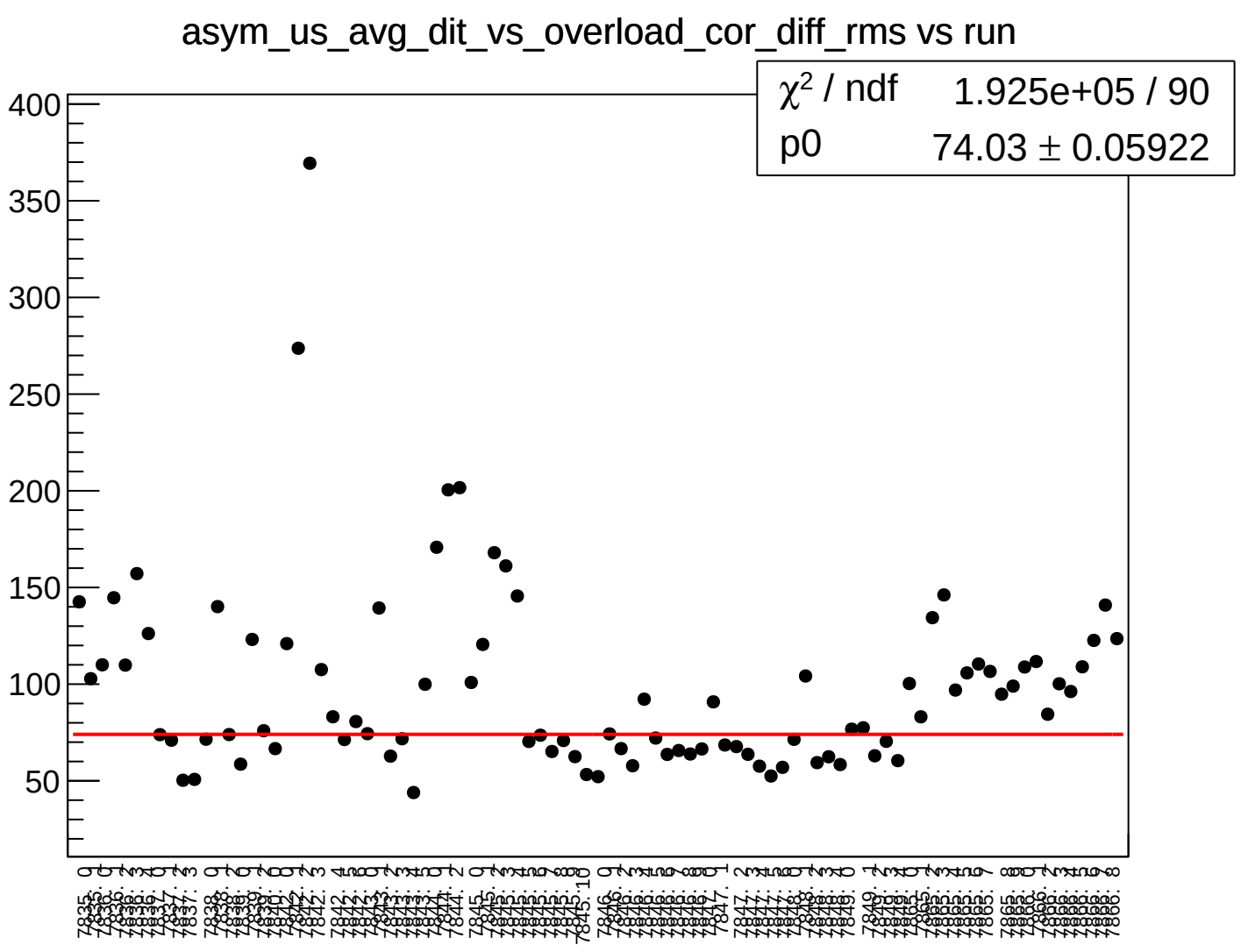

pull1D
Entries 91
Mean −0.01071
Std Dev 0.9838

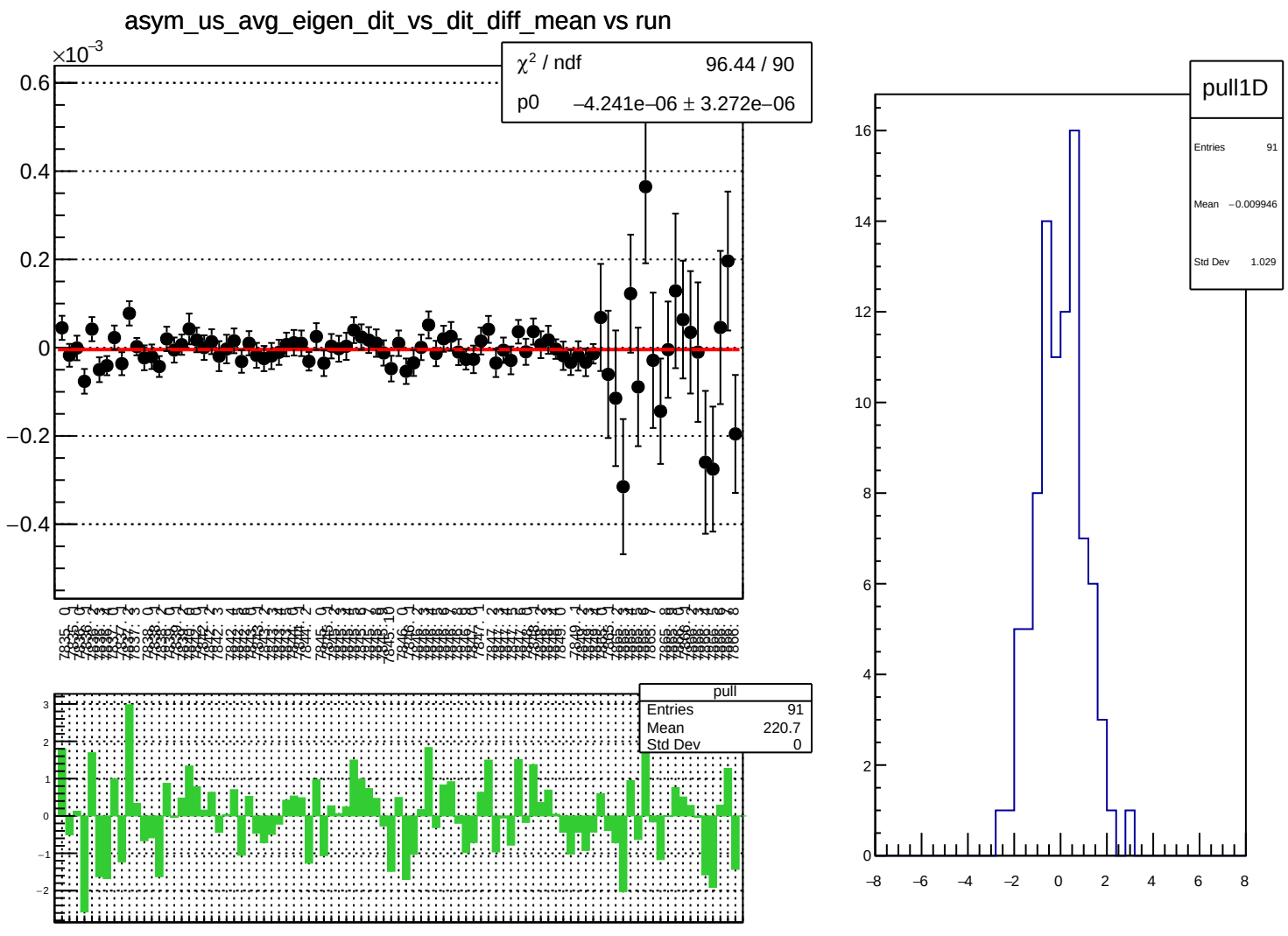

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.309e+05 / 90
p0 64.87 ± 0.05254
400
350
300
250
200
150
100
50

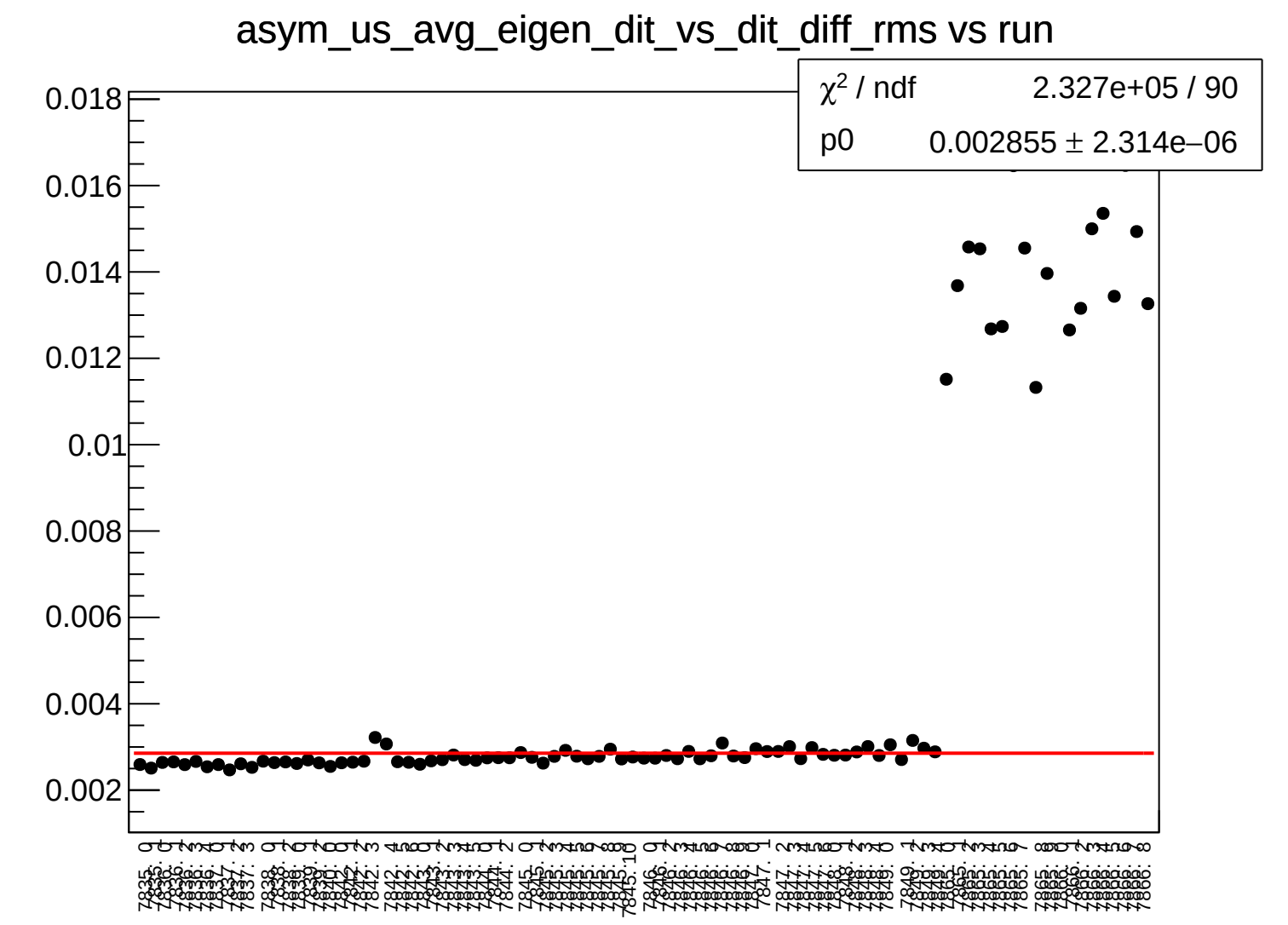

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.09773 ± 0.0743
pull
Entries 91
Mean −85.64
Std Dev 0
pull1D
Entries 91
Mean −0.01071
Std Dev 0.9838

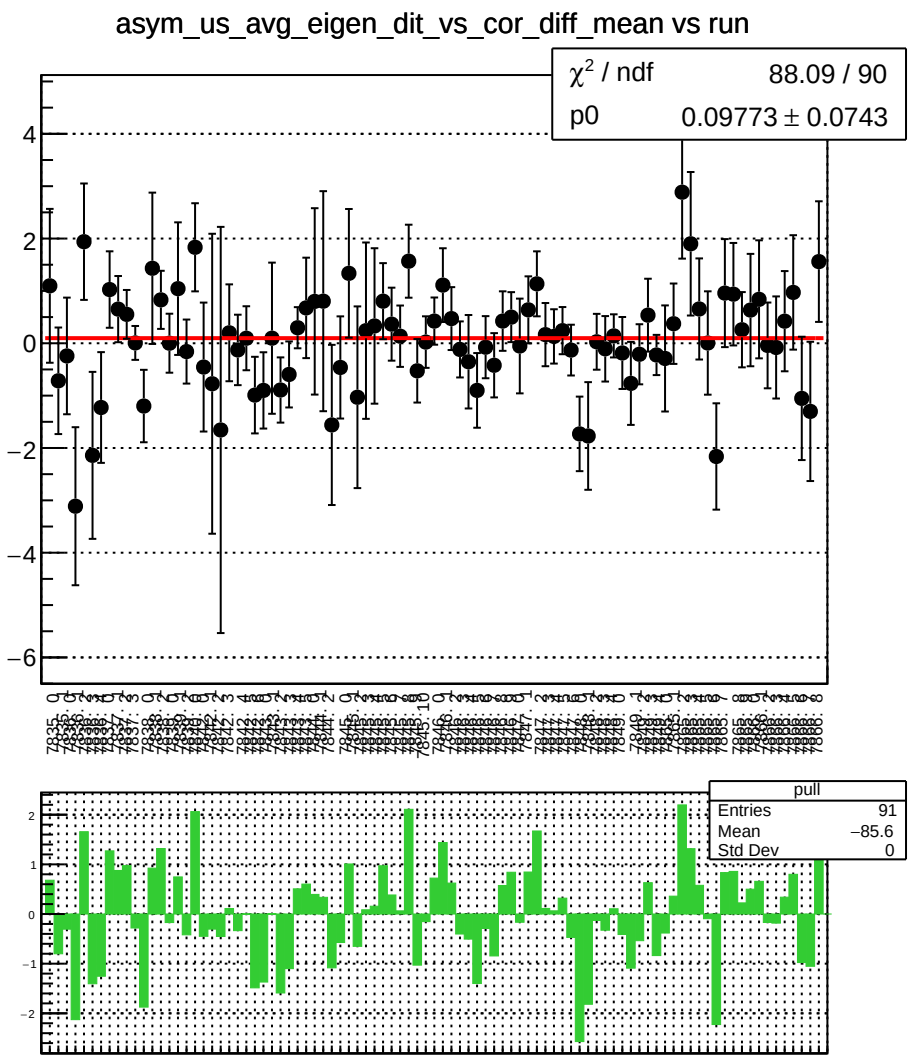

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.309e+05 / 90
p0 64.87 ± 0.05254
400
350
300
250
200
150
100
50

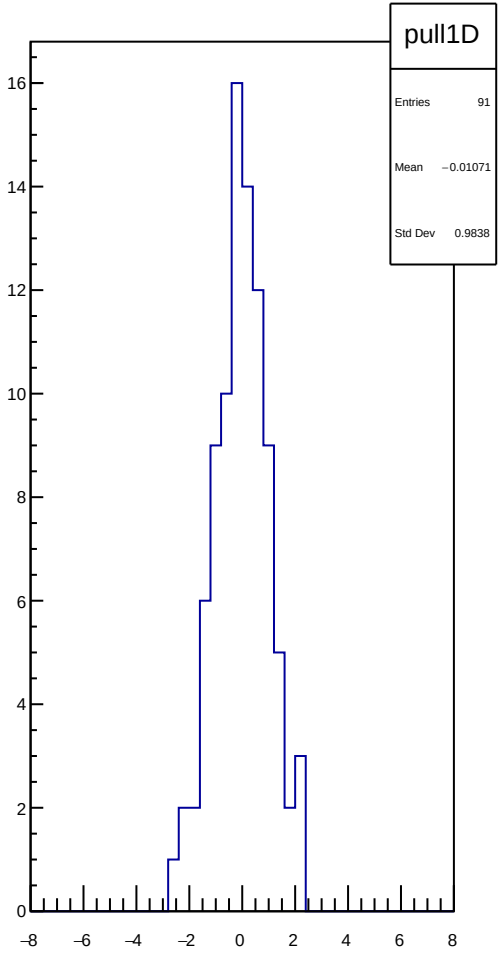

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.2 / 90
p0 0.03315 ± 0.08376
pull
Entries 91
Mean 53.55
Std Dev 39.94
pull1D
Entries 91
Mean 0.02212
Std Dev 1.075

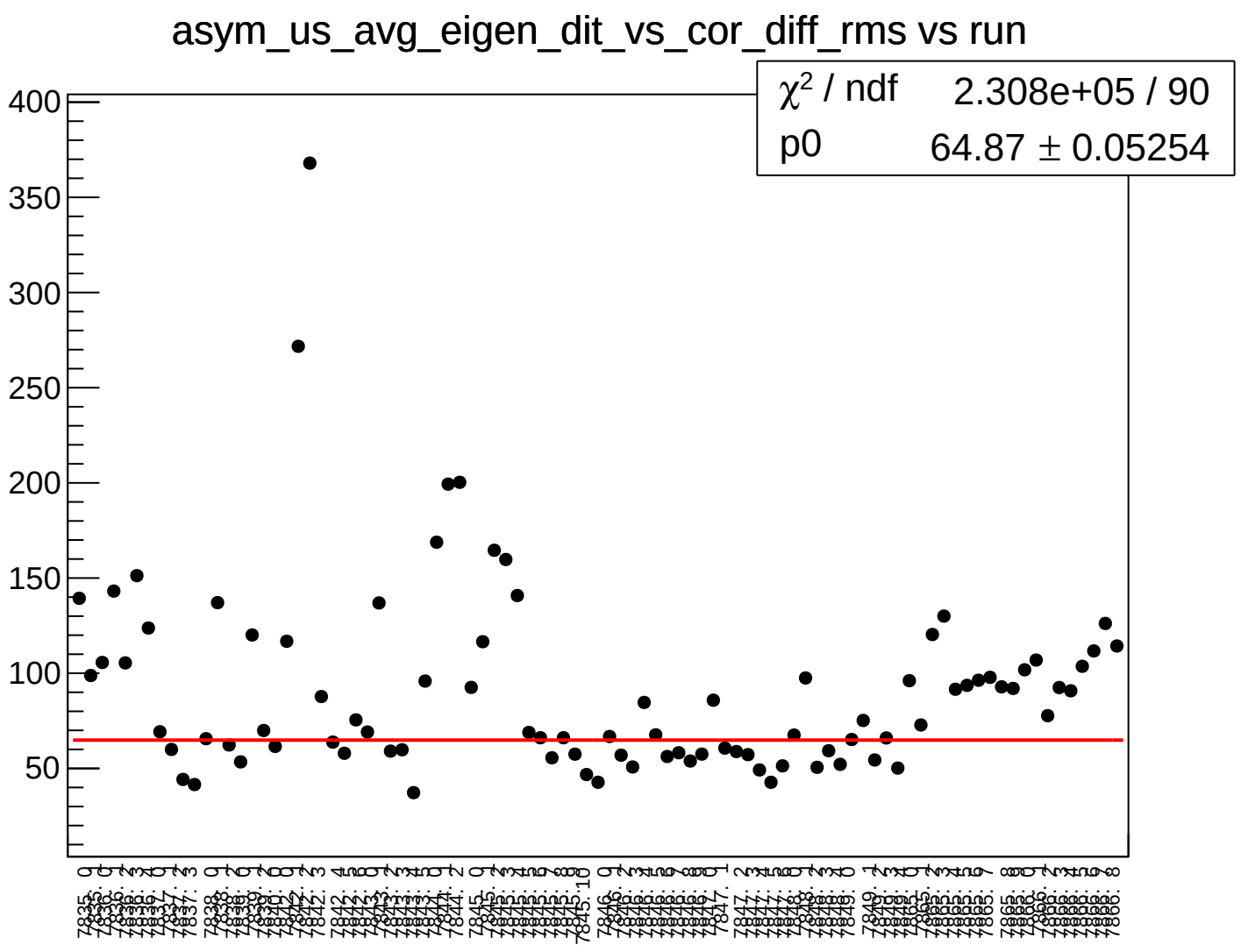

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.925e+05 / 90
p0 74.03 ± 0.05922
400
350
300
250
200
150
100
50

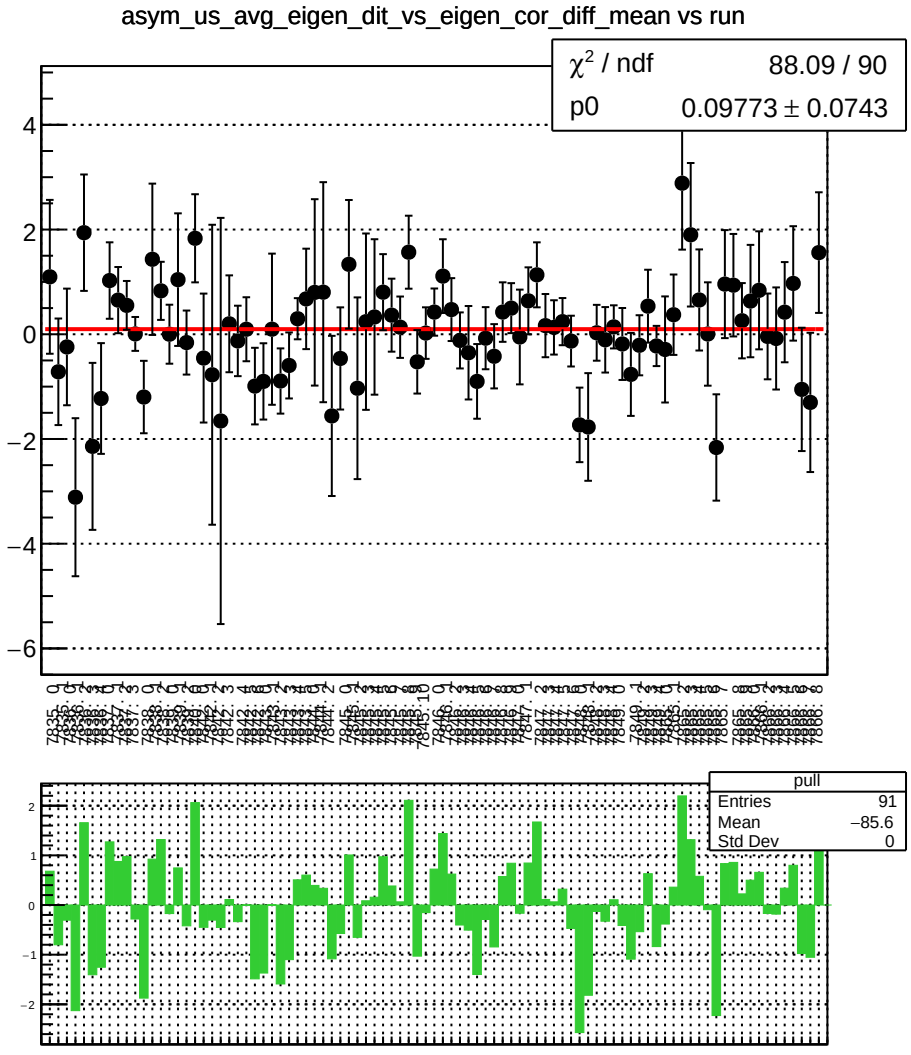

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.44 / 90
p0 −4.241e−06 ± 3.272e−06
pull
Entries 91
Mean 220.7
Std Dev 0
pull1D
Entries 91
Mean −0.009946
Std Dev 1.029

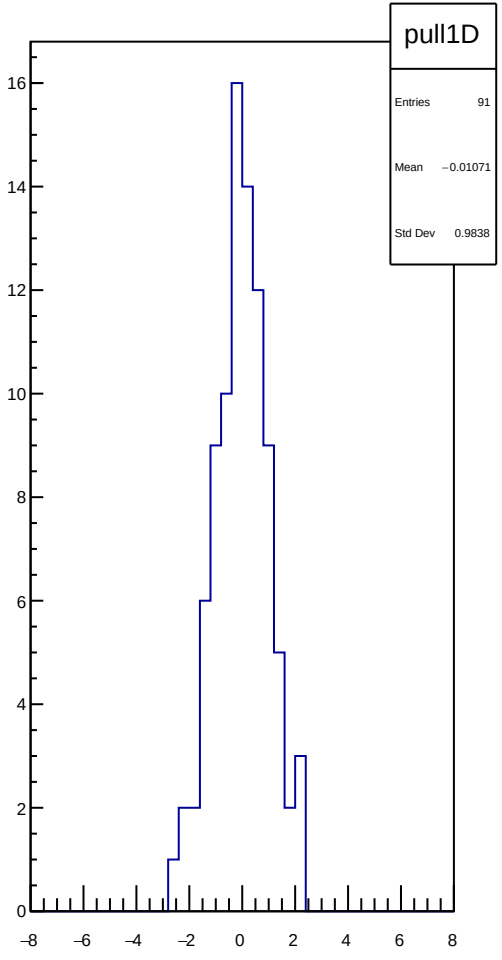

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.327e+05 / 90
p0 0.002855 ± 2.314e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

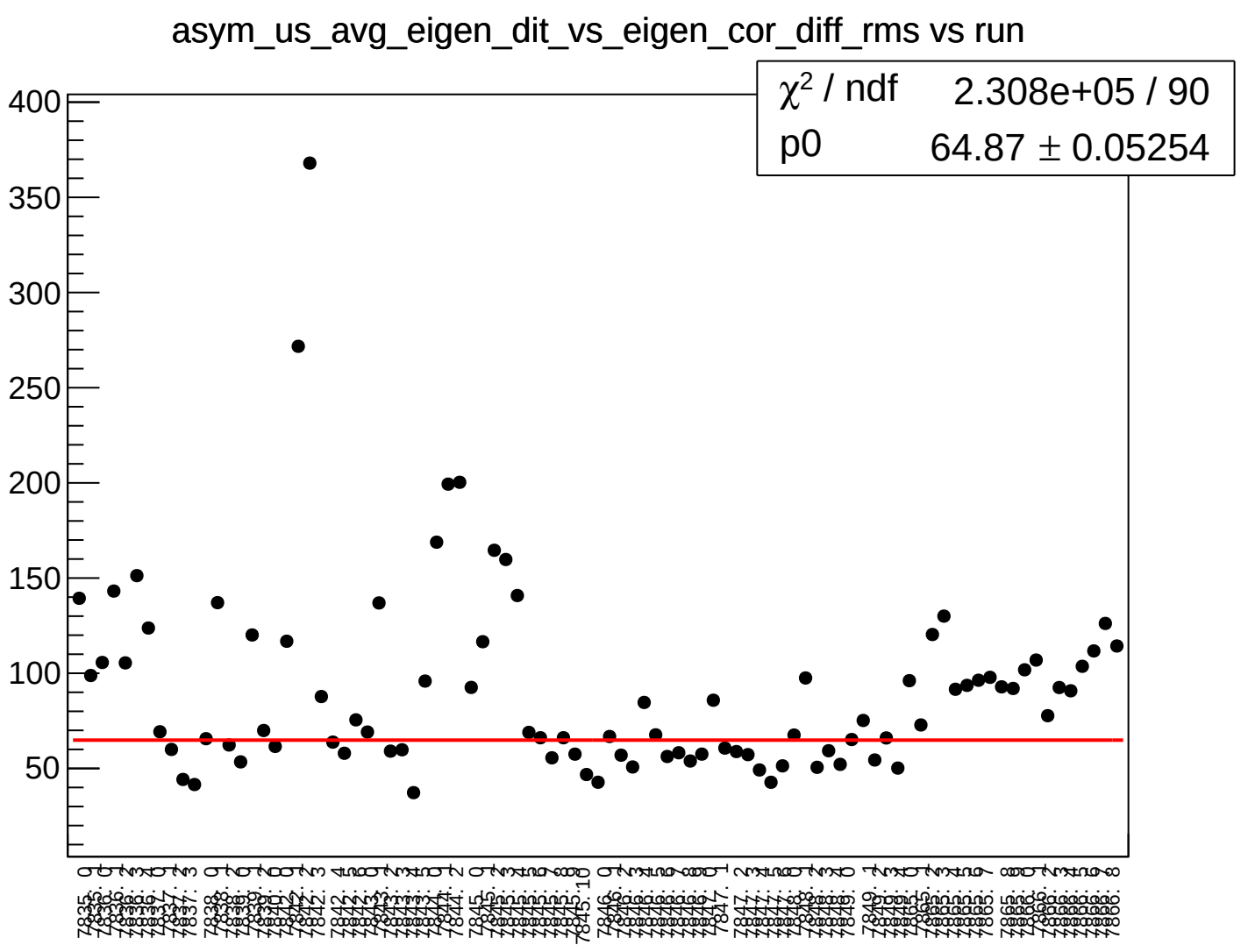

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.09773 ± 0.0743
pull
Entries 91
Mean −85.6
Std Dev 0

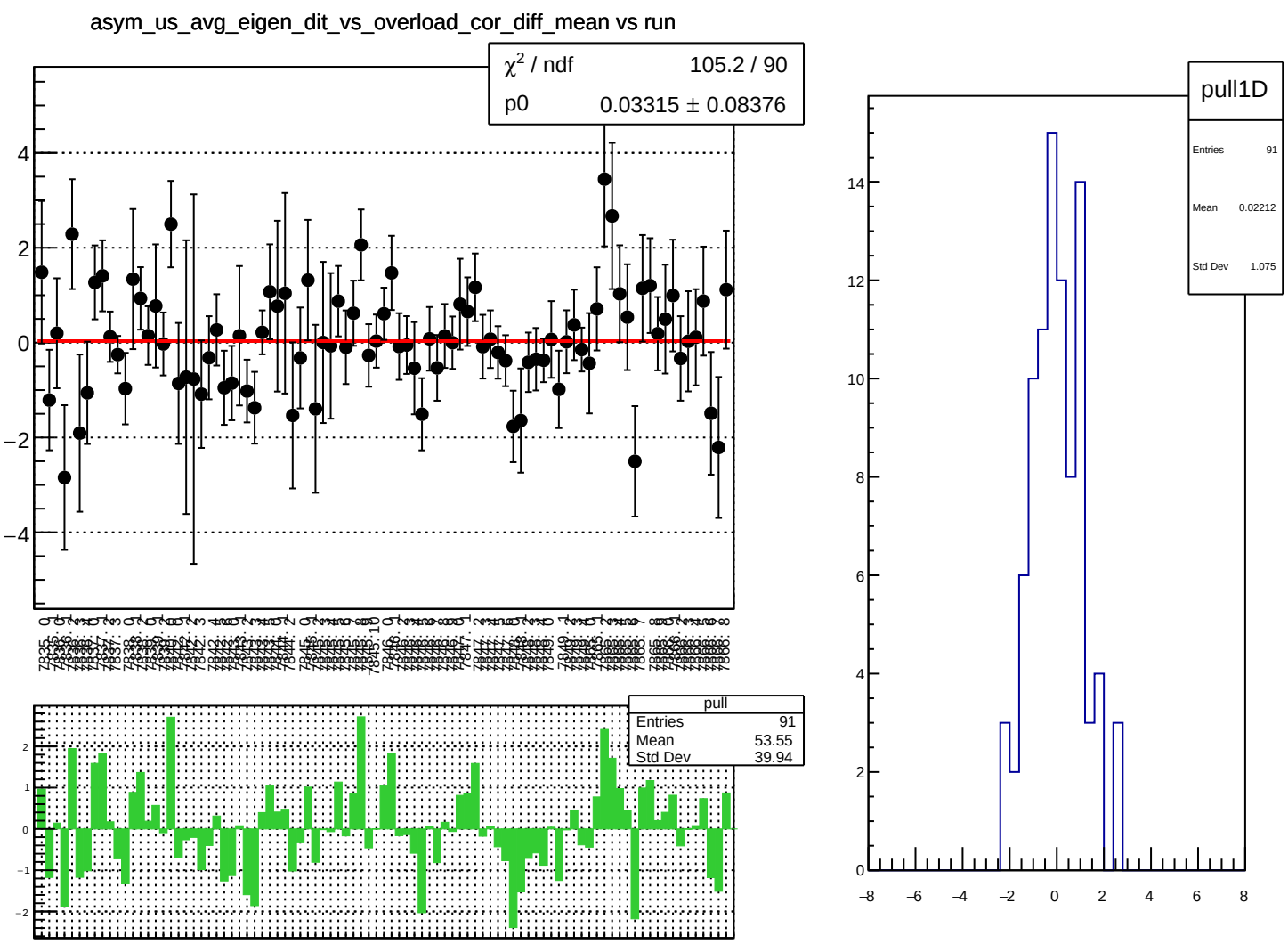

pull1D
Entries 91
Mean −0.01071
Std Dev 0.9838

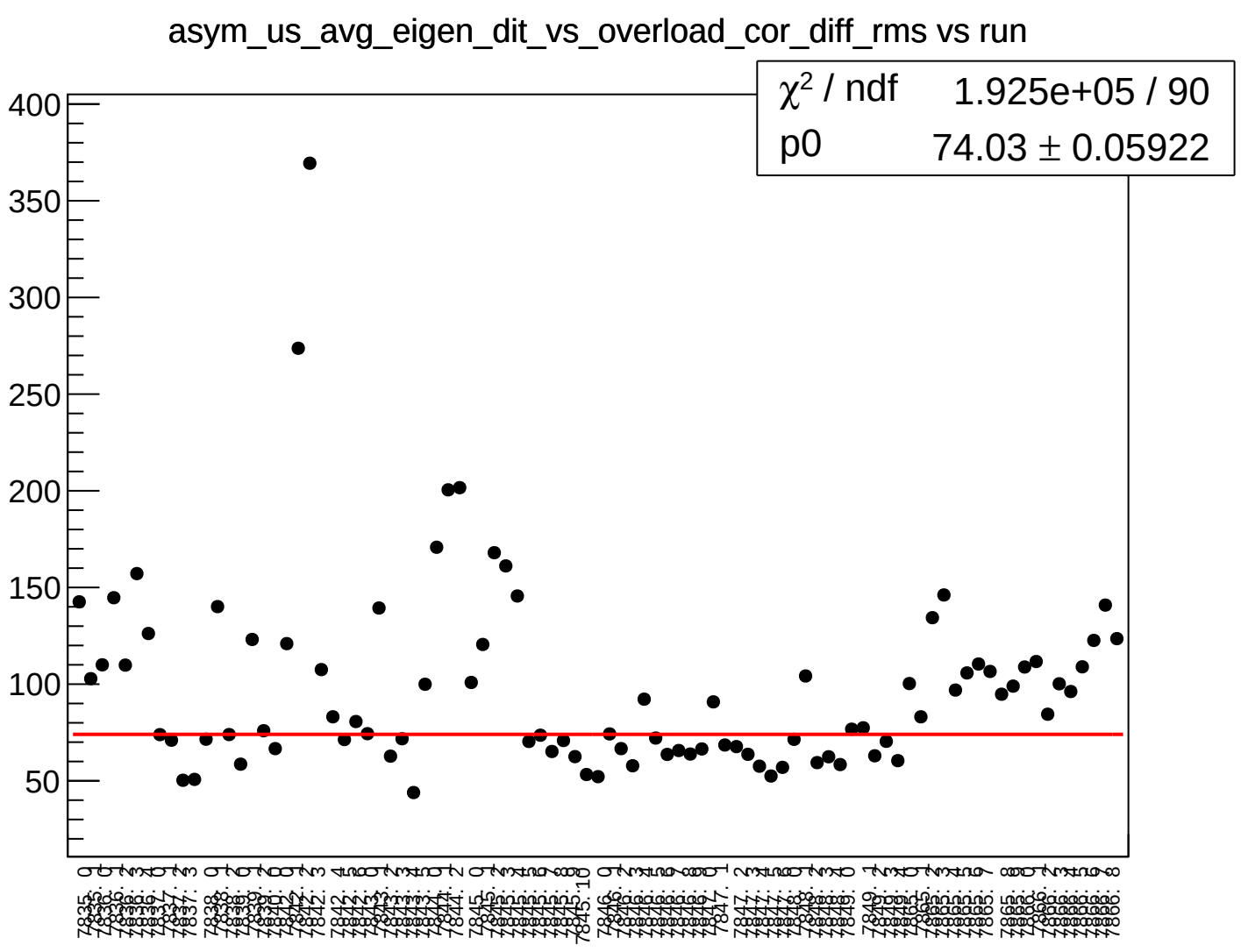

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 90
p0 64.87 ± 0.05254
400
350
300
250
200
150
100
50

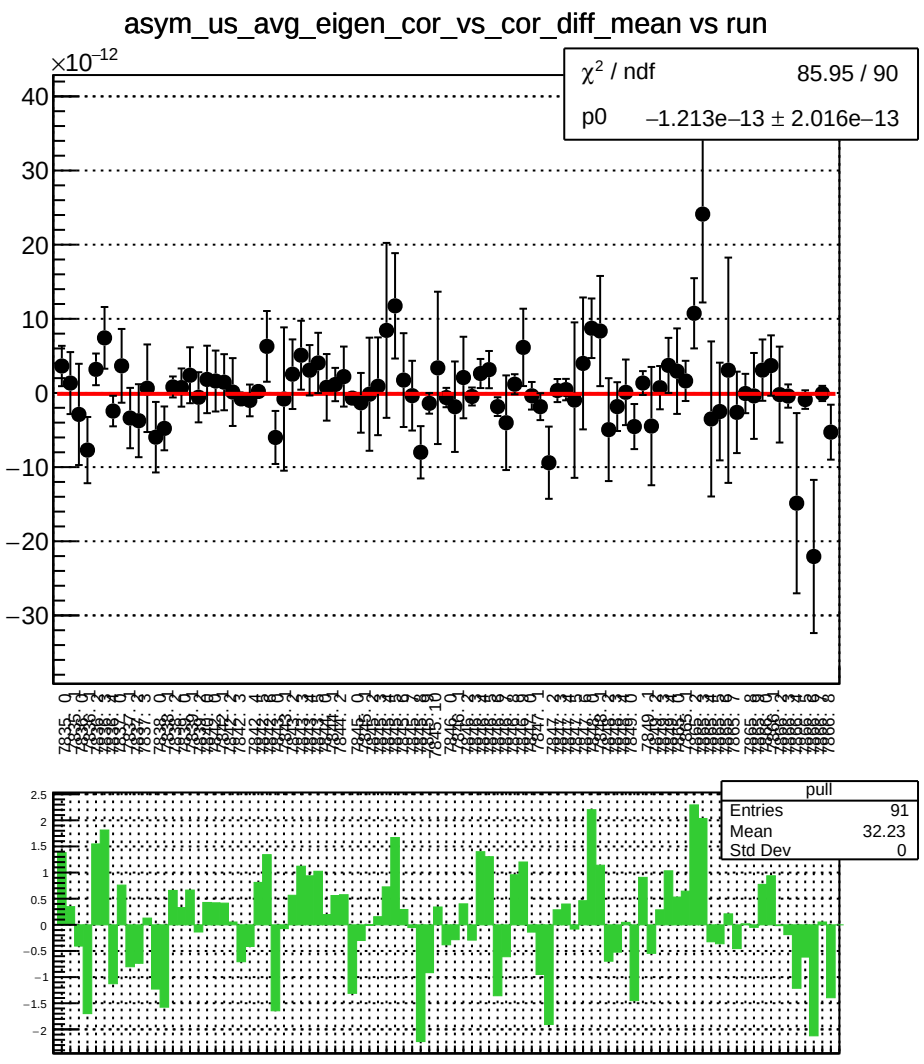

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.09773 ± 0.0743
pull
Entries 91
Mean −85.6
Std Dev 0

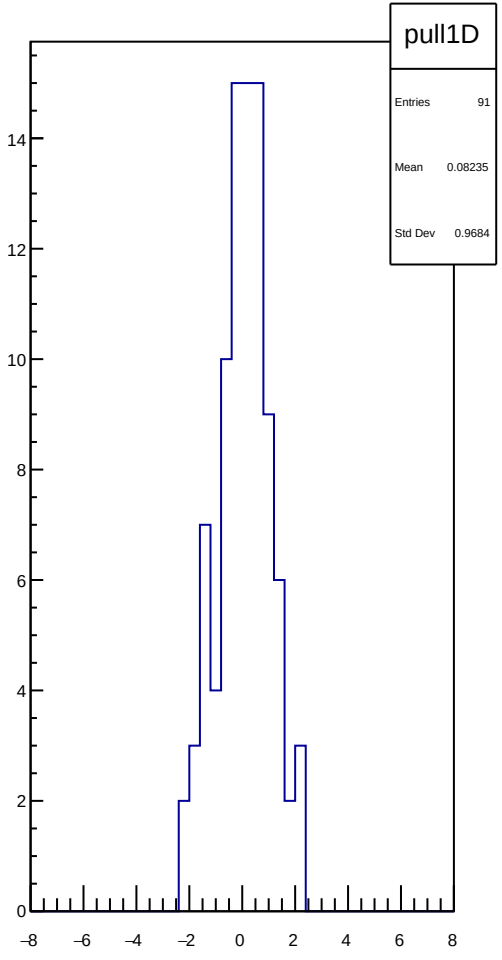

pull1D
Entries 91
Mean −0.01071
Std Dev 0.9838

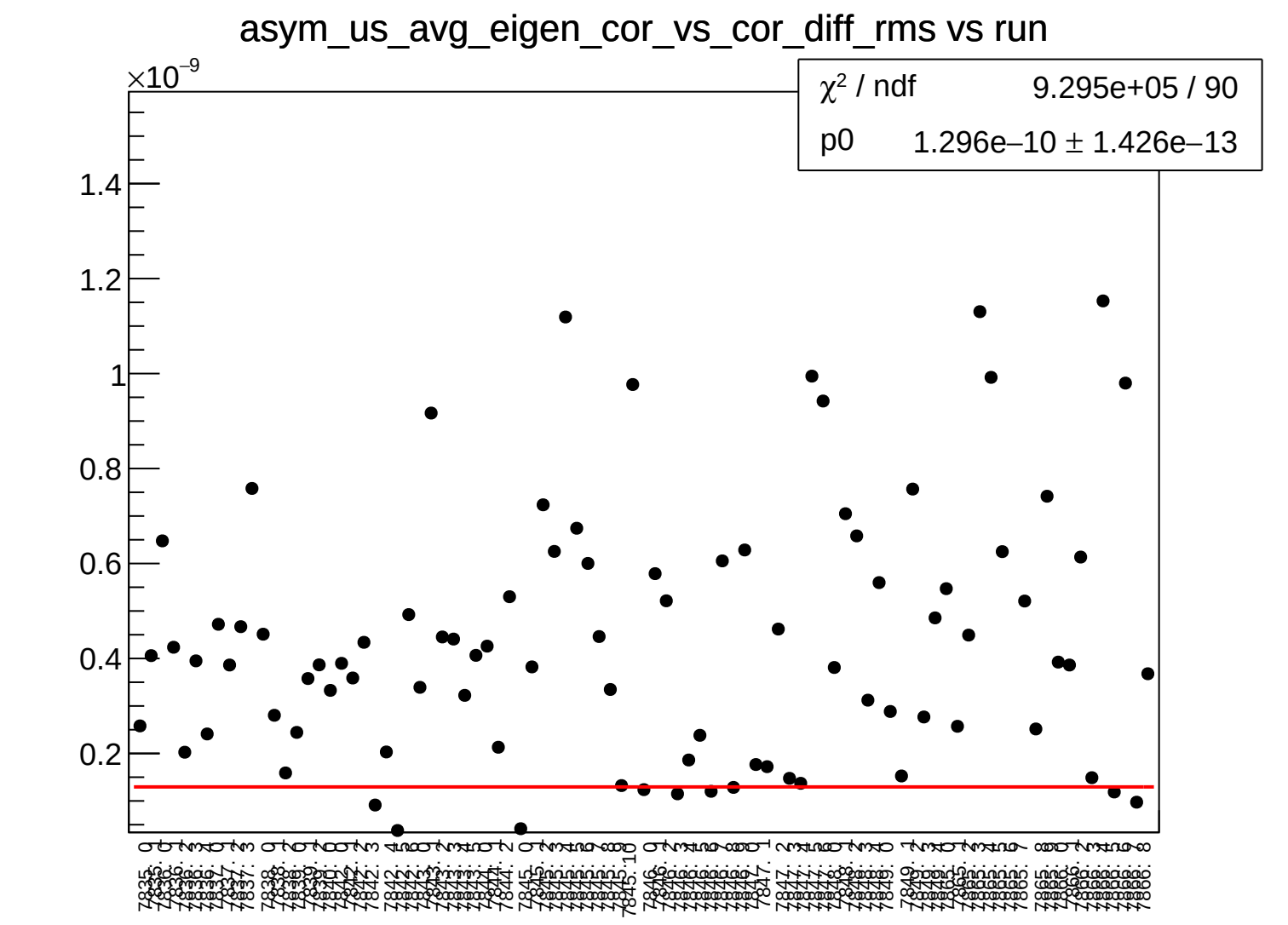

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 90
p0 64.87 ± 0.05254
400
350
300
250
200
150
100
50

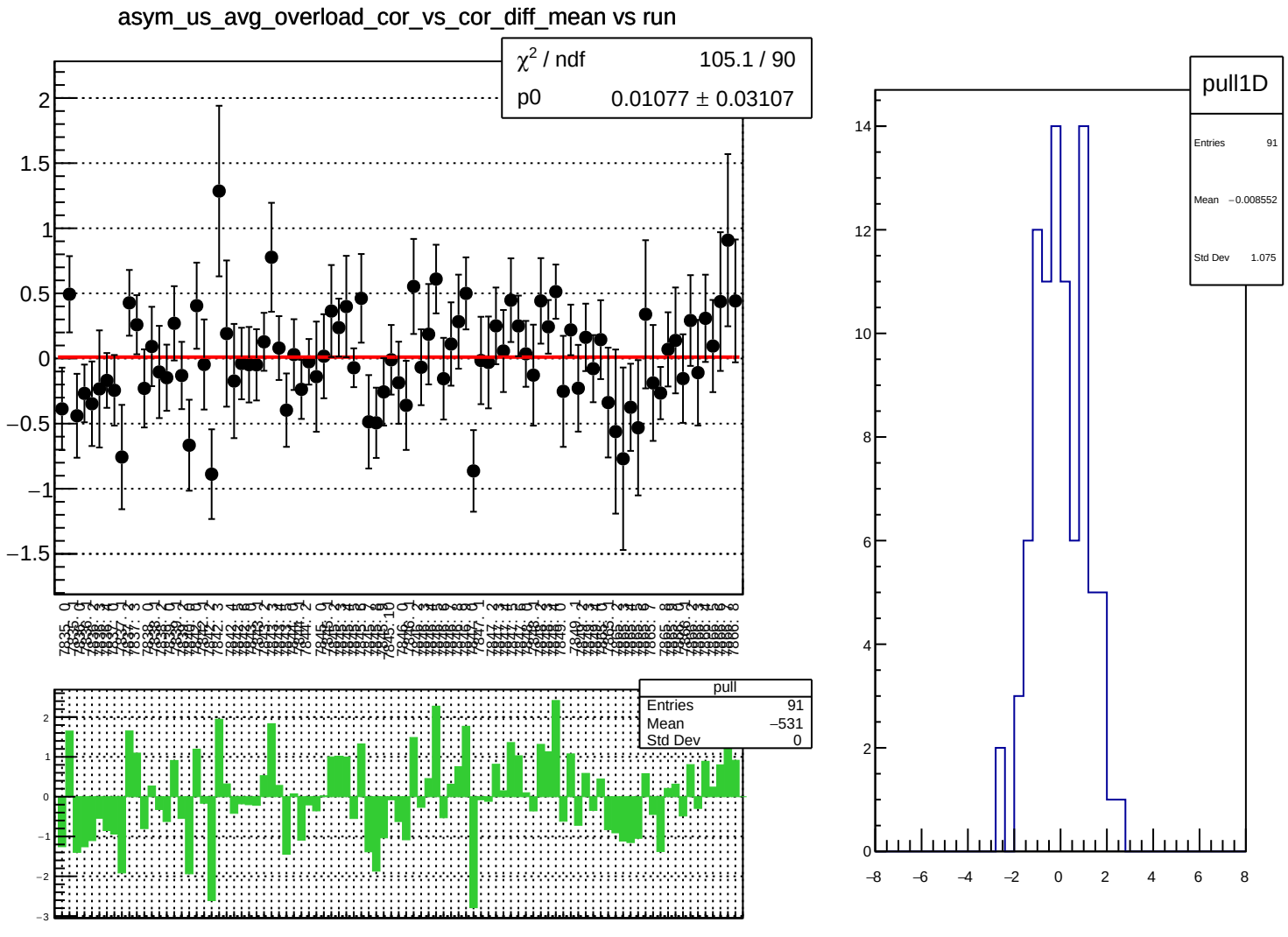

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.2 / 90
p0 0.03315 ± 0.08376
pull
Entries 91
Mean 53.55
Std Dev 39.94
pull1D
Entries 91
Mean 0.02212
Std Dev 1.075

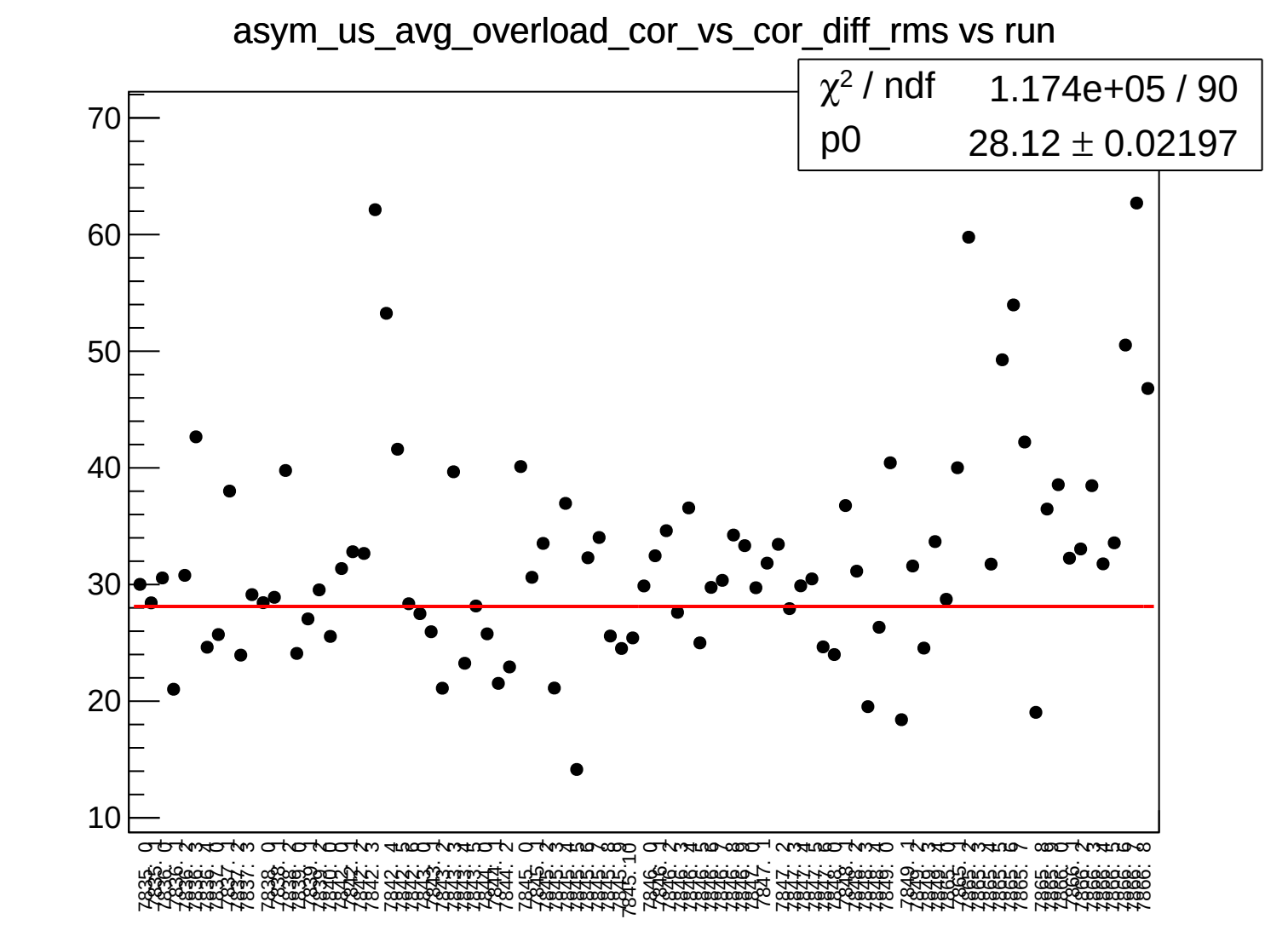

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.925e+05 / 90
p0 74.03 ± 0.05922
400
350
300
250
200
150
100
50

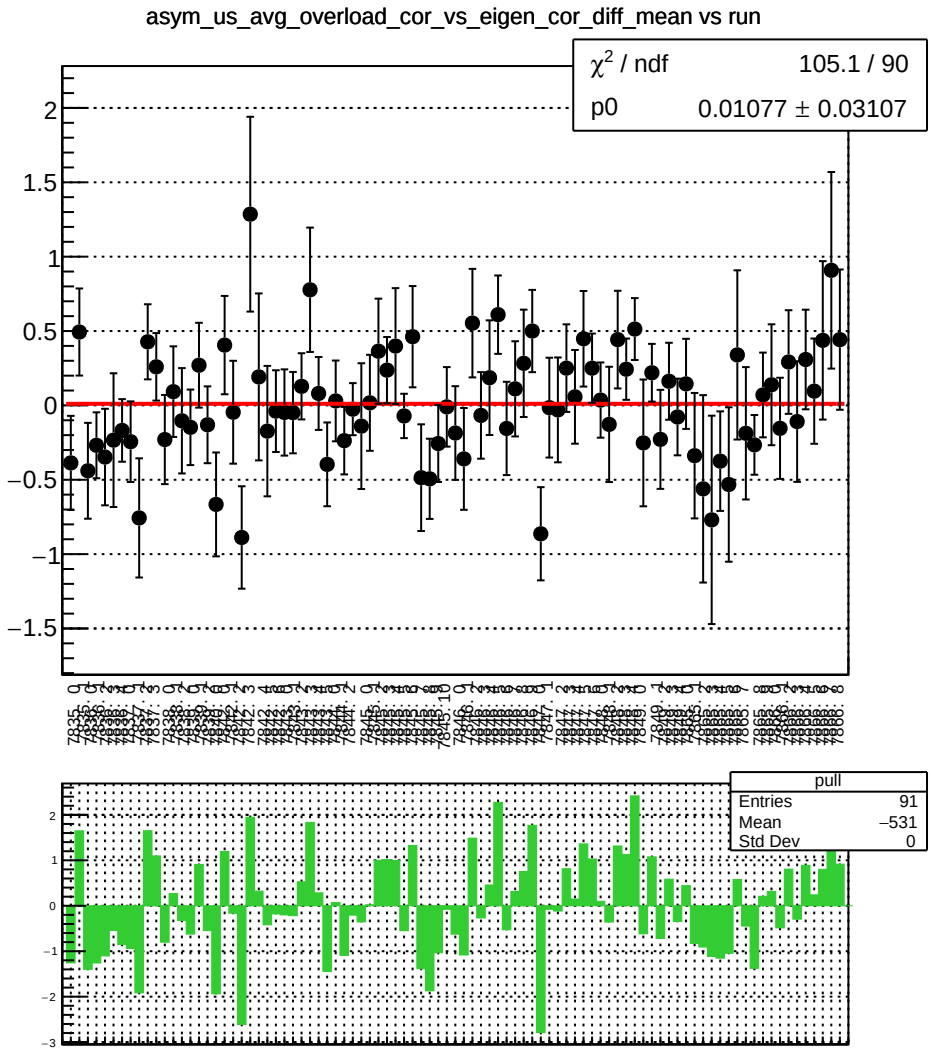

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.95 / 90
p0 −1.213e−13 ± 2.016e−13
pull
Entries 91
Mean 32.23
Std Dev 0

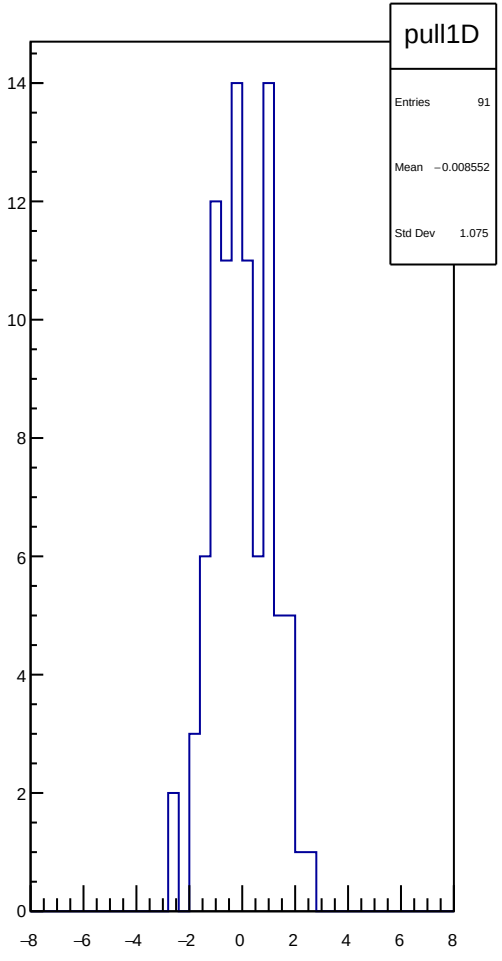

pull1D
Entries 91
Mean 0.08235
Std Dev 0.9684

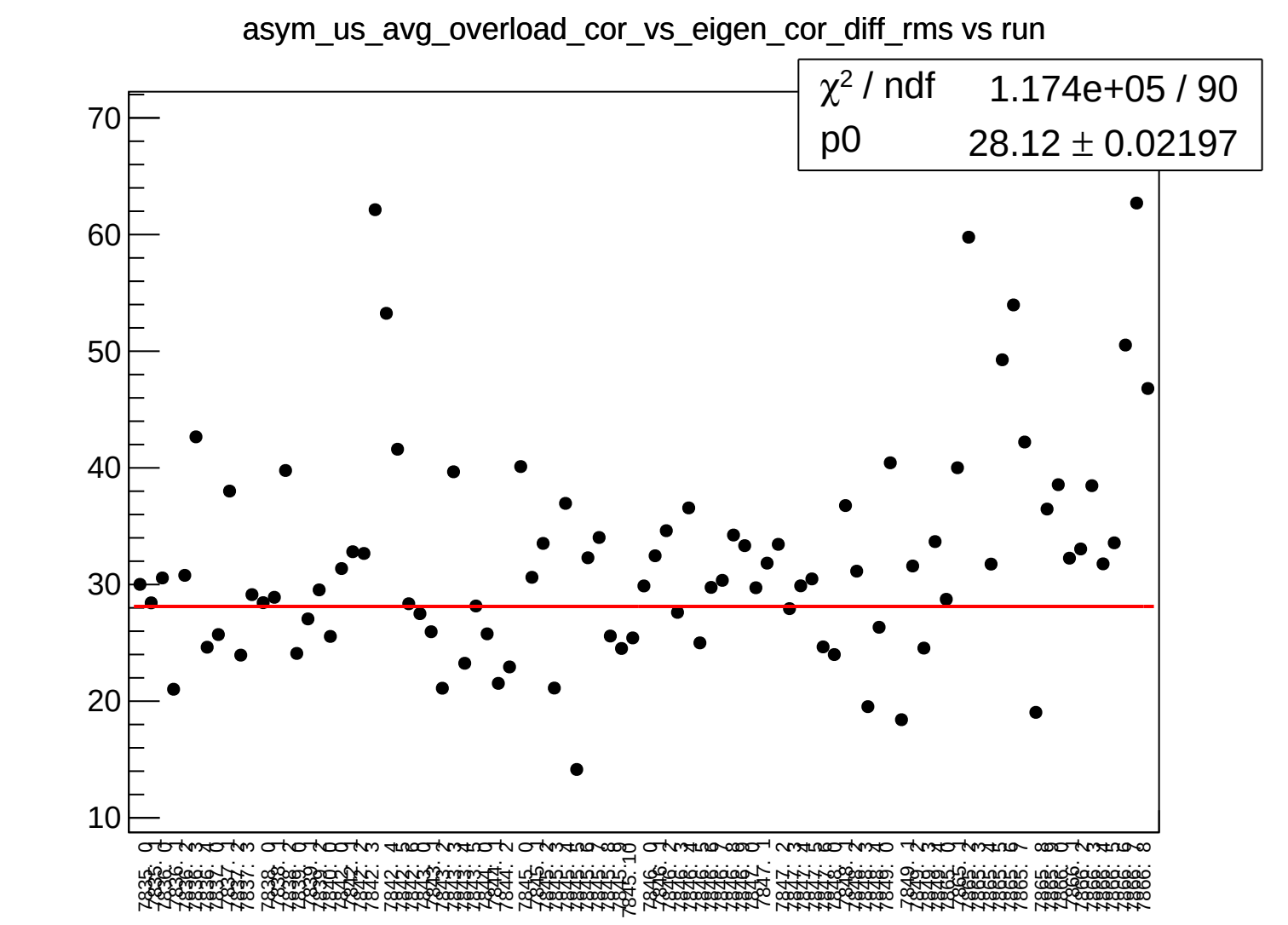

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.295e+05 / 90
p0 1.296e−10 ± 1.426e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

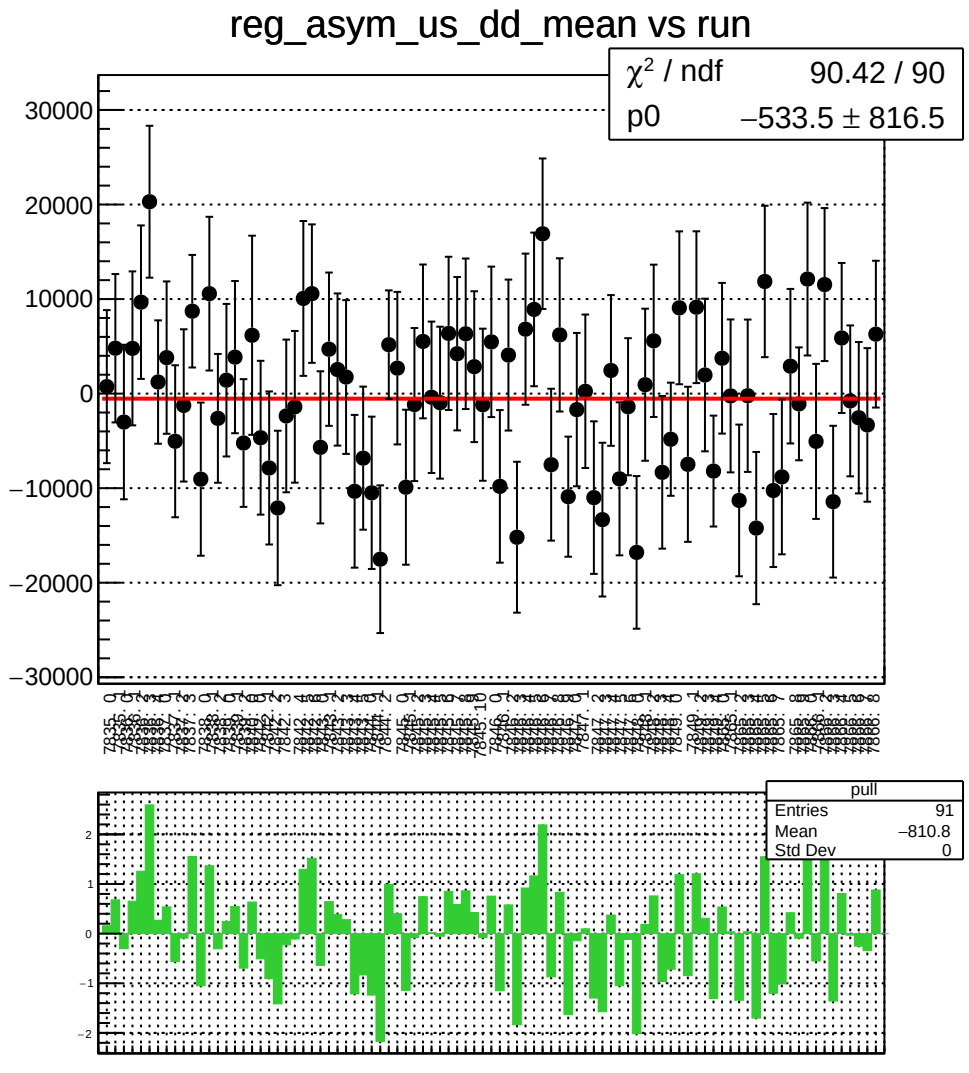

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 90
p0 0.01077 ± 0.03107
pull
Entries 91
Mean −531
Std Dev 0
pull1D
Entries 91
Mean −0.008552
Std Dev 1.075

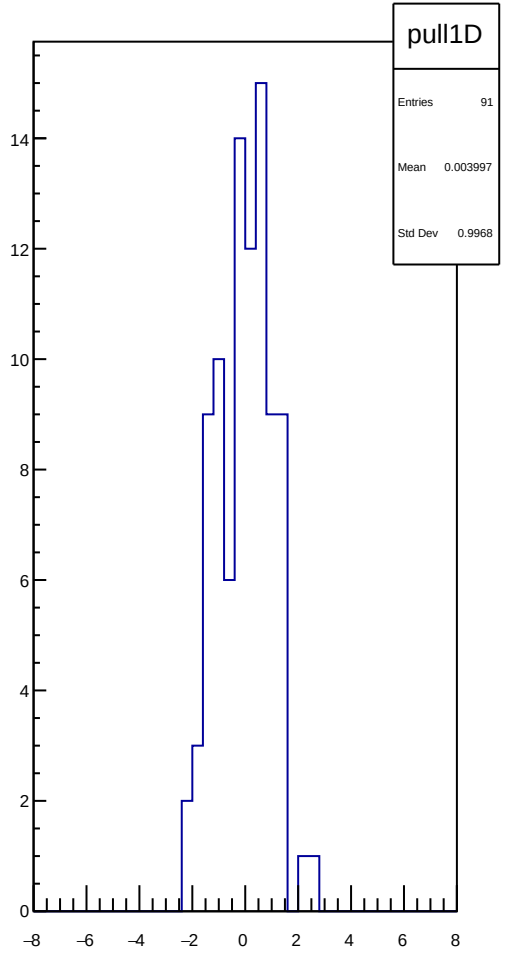

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.174e+05 / 90
p0 28.12 ± 0.02197
70
60
50
40
30
20
10

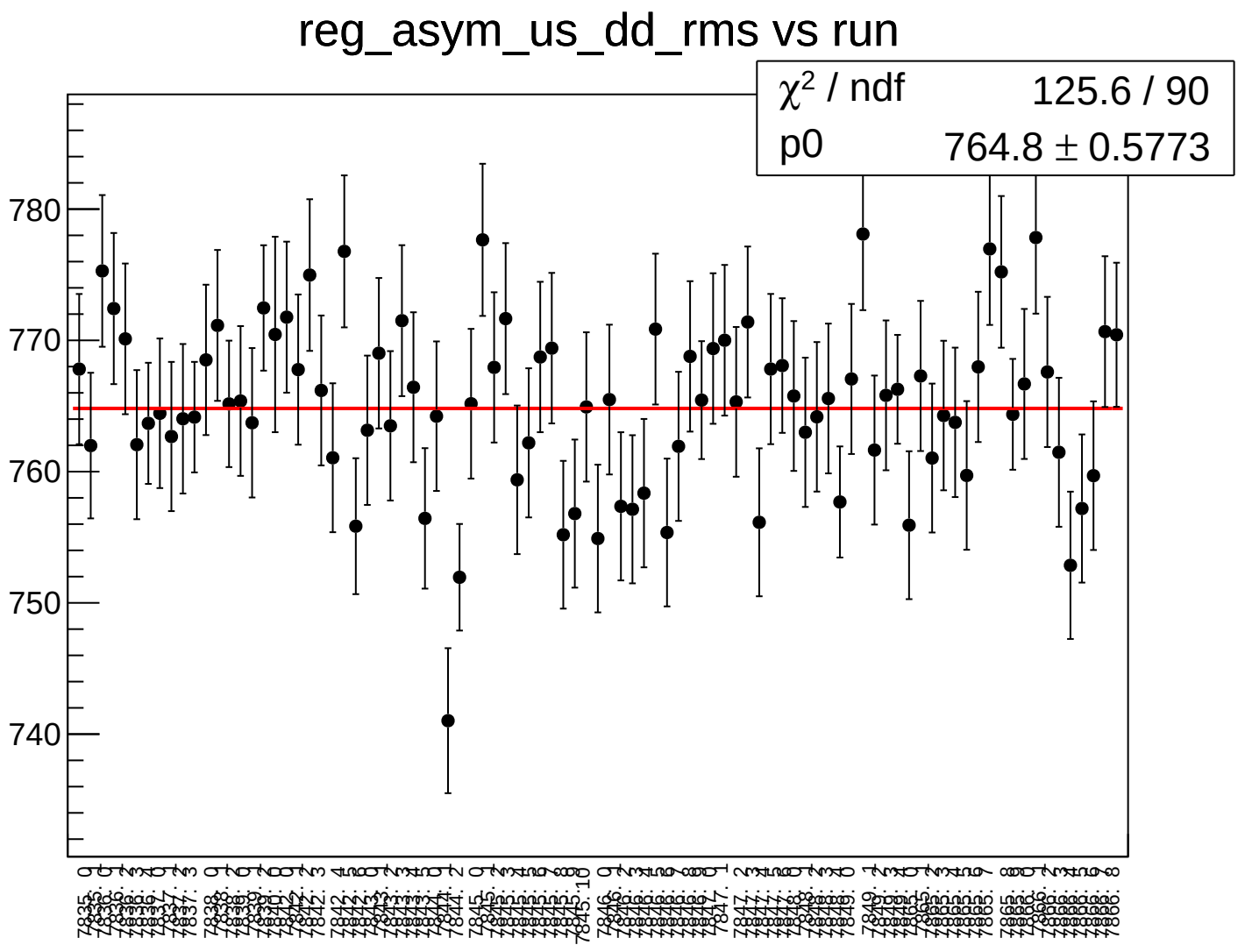

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 90
p0 0.01077 ± 0.03107
pull
Entries 91
Mean −531
Std Dev 0

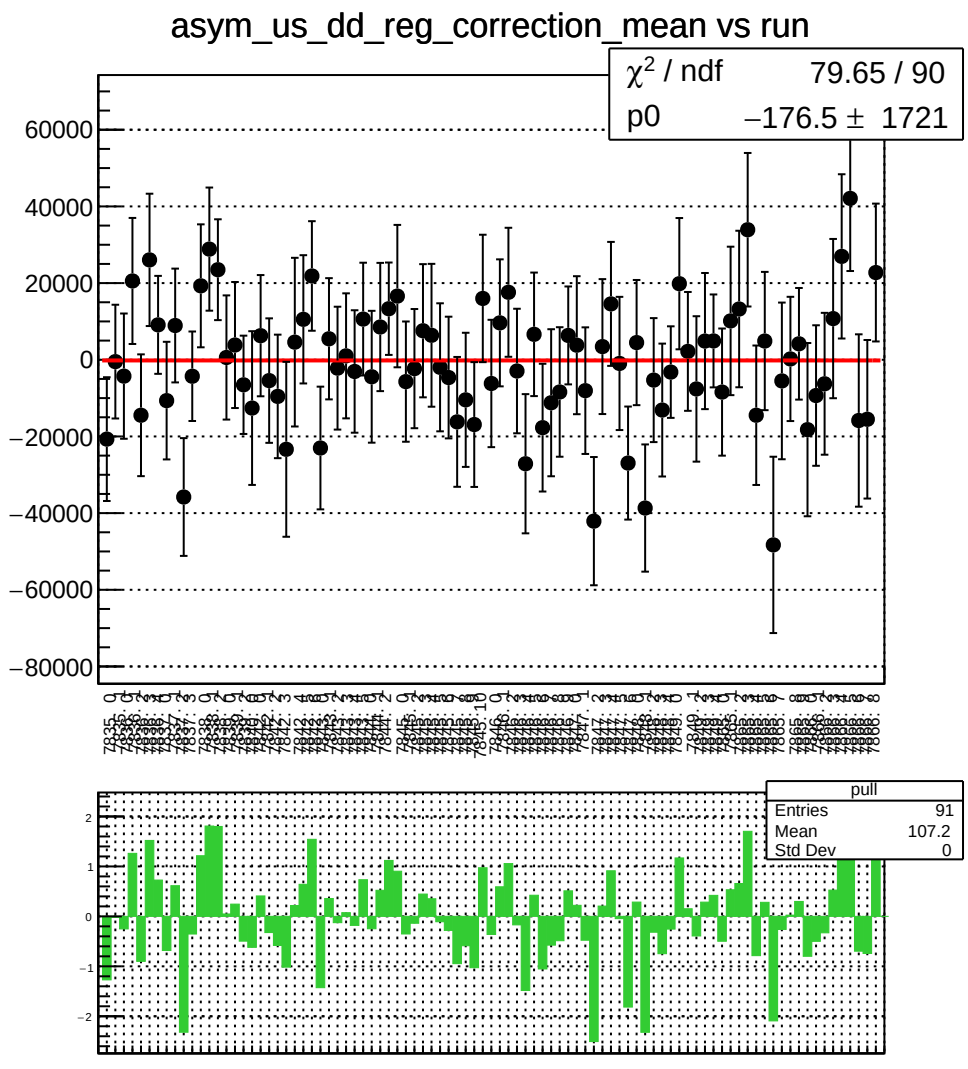

pull1D
Entries 91
Mean −0.008552
Std Dev 1.075

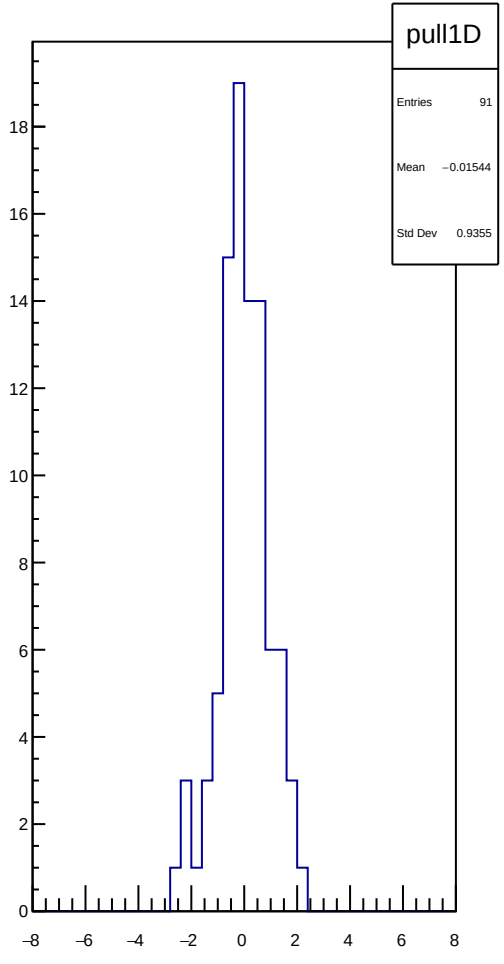

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.174e+05 / 90
p0 28.12 ± 0.02197
70
60
50
40
30
20
10

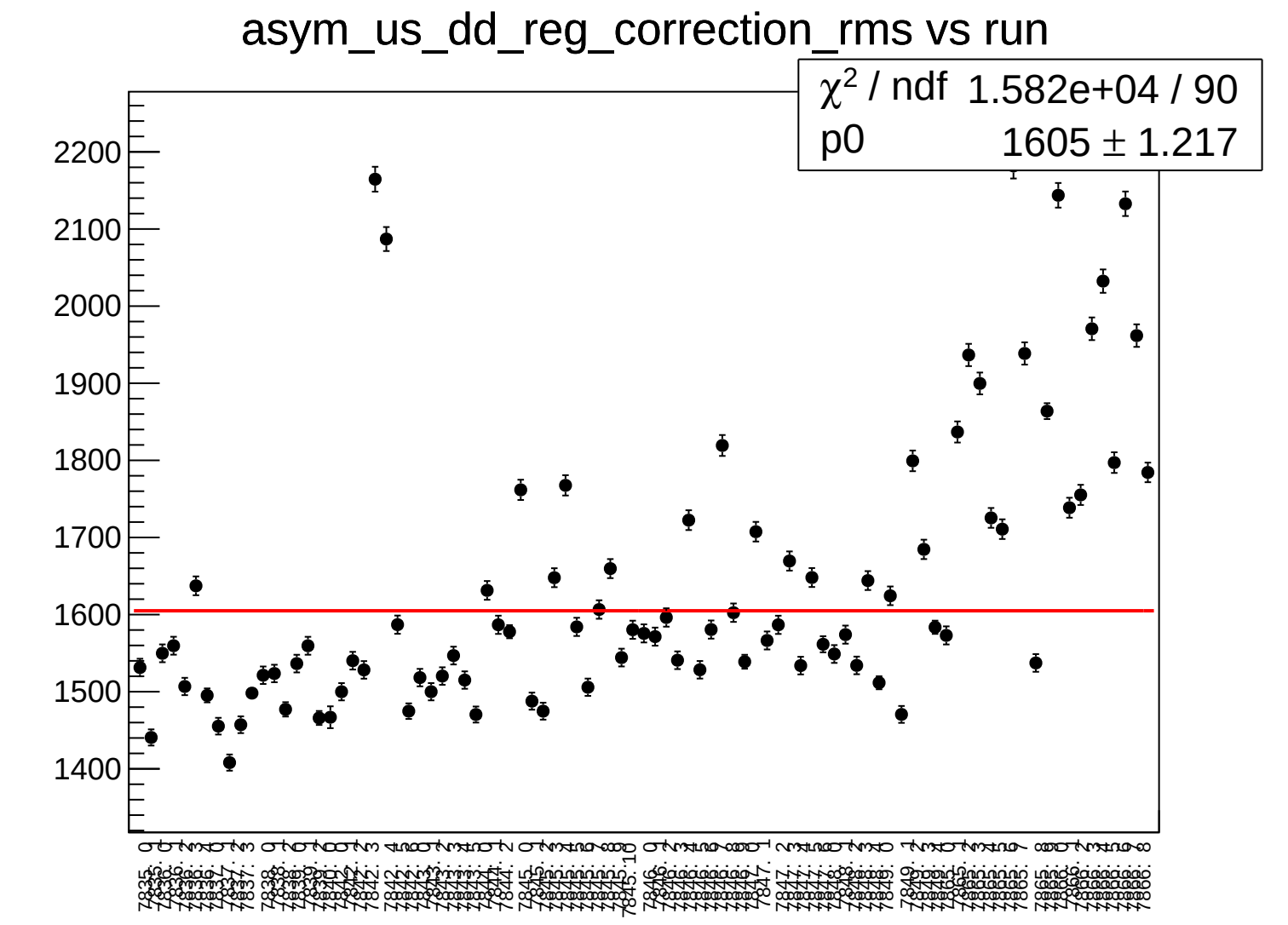

reg_asym_us_dd_mean vs run
χ² / ndf 90.42 / 90
p0 −533.5 ± 816.5
pull
Entries 91
Mean −810.8
Std Dev 0

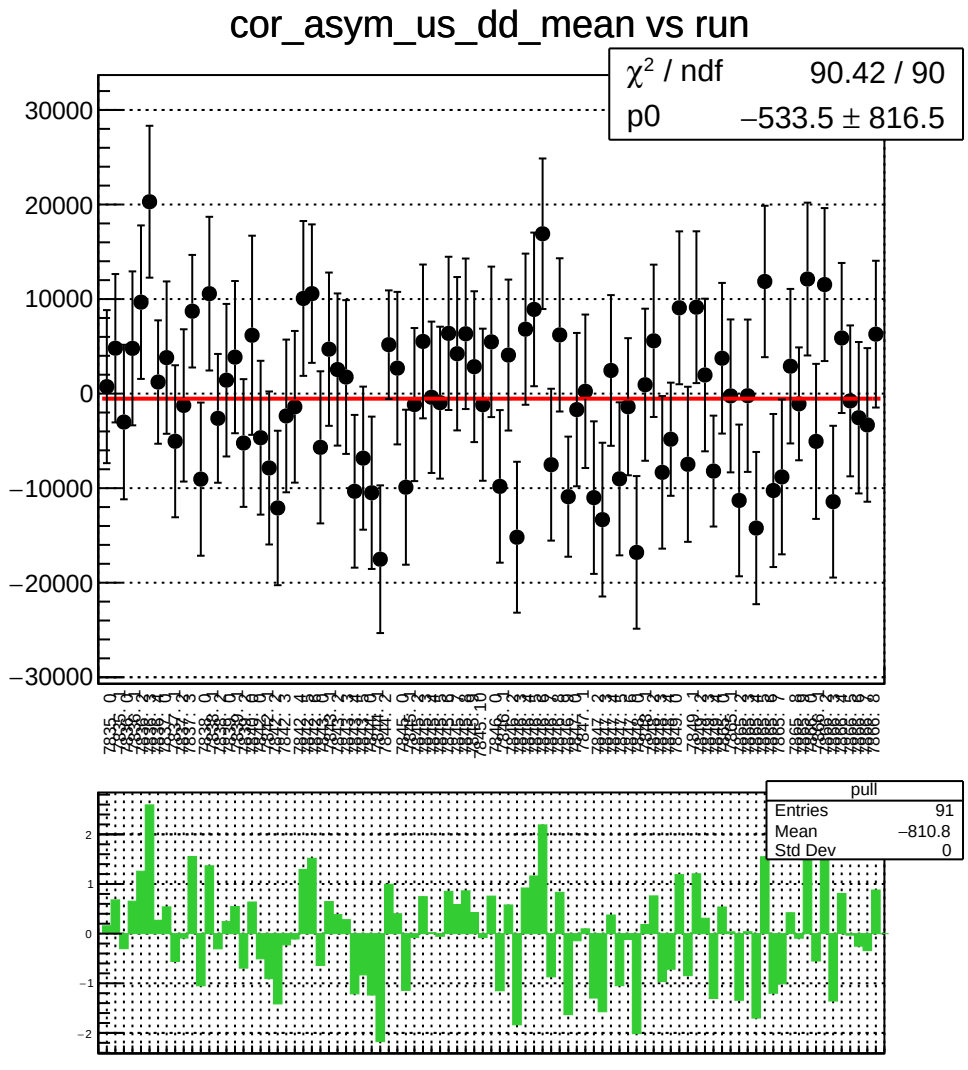

pull1D
Entries 91
Mean 0.003997
Std Dev 0.9968

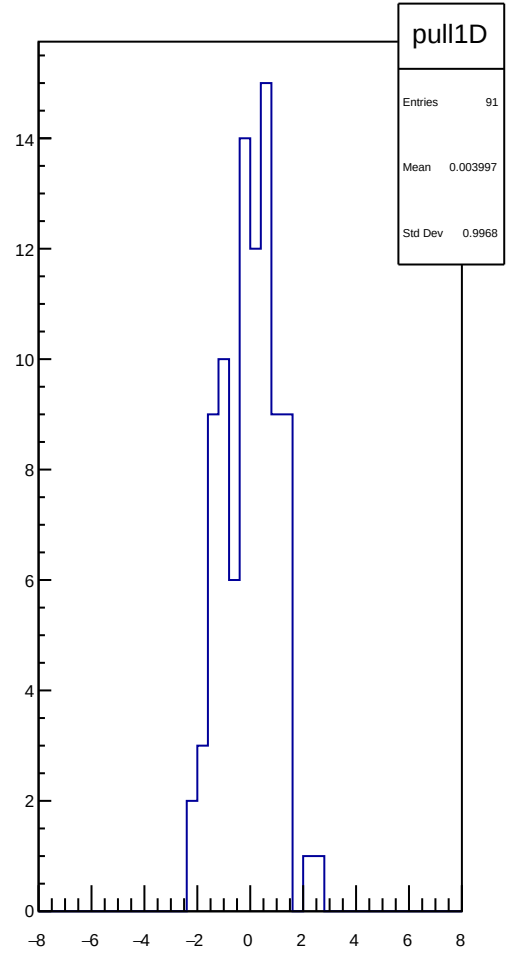

reg_asym_us_dd_rms vs run
χ² / ndf 125.6 / 90
p0 764.8 ± 0.5773
780
770
760
750
740

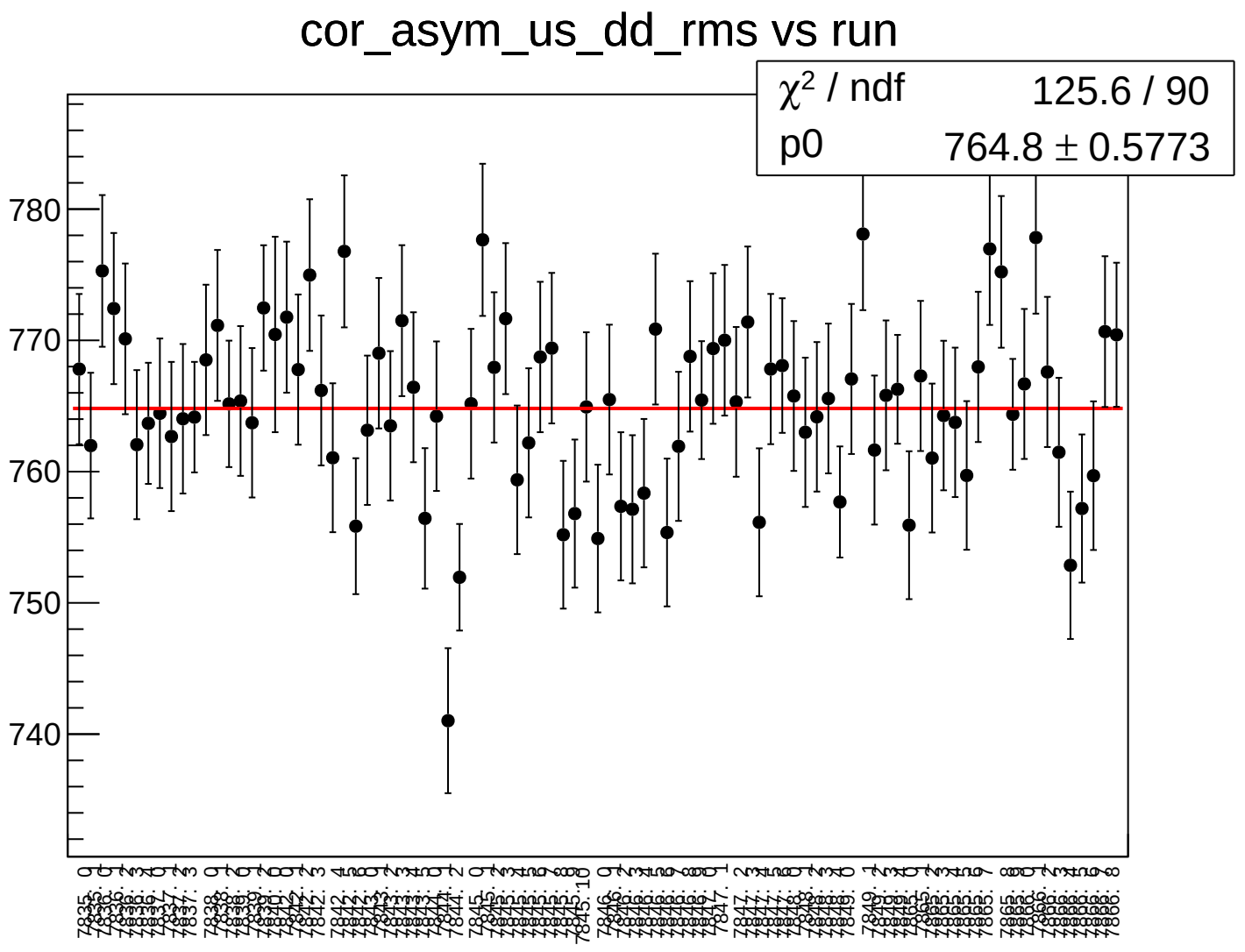

asym_us_dd_reg_correction_mean vs run
χ² / ndf 79.65 / 90
p0 −176.5 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 107.2
Std Dev 0
2
1
0
−1
−2

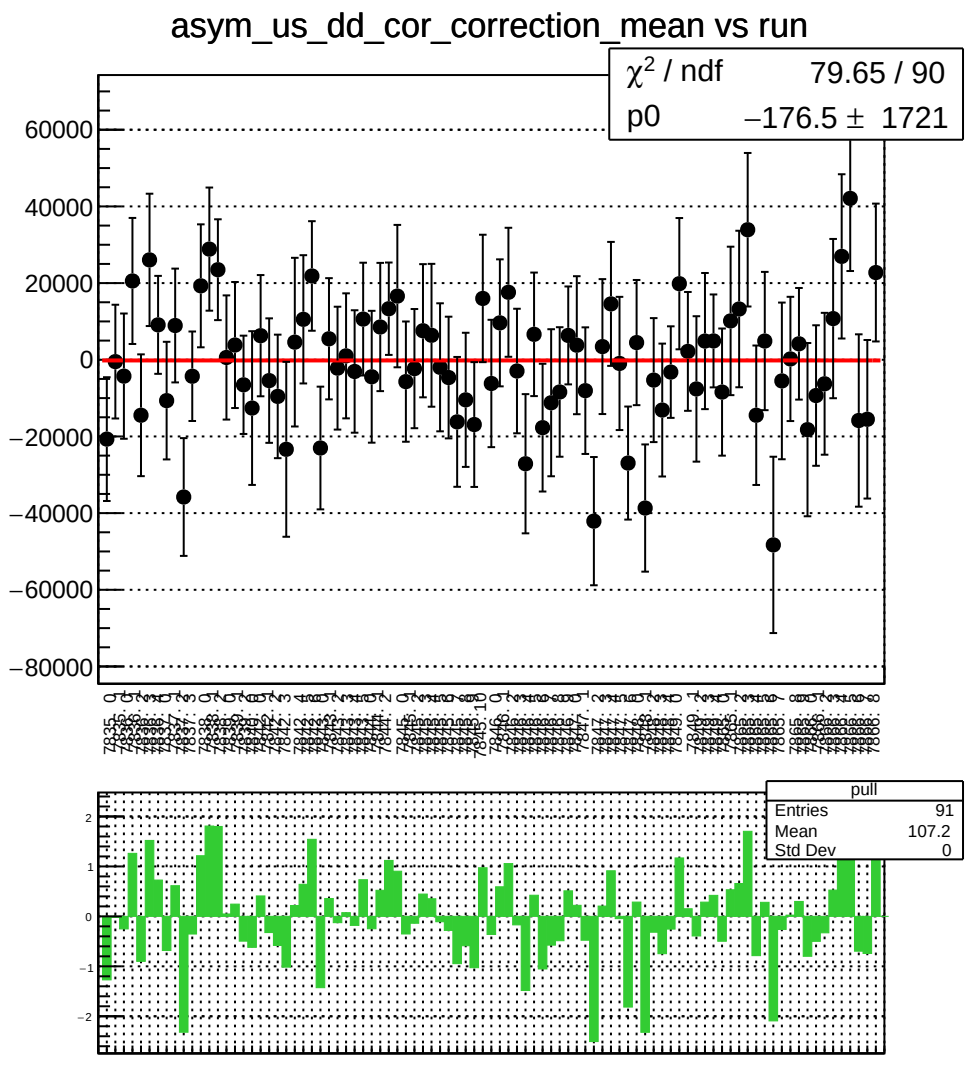

pull1D
Entries 91
Mean −0.01544
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

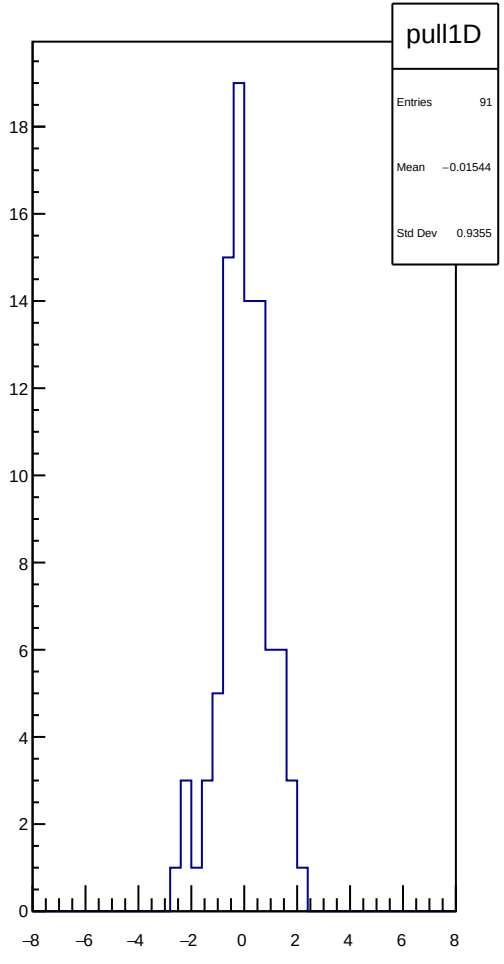

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.582e+04 / 90
p0 1605 ± 1.217
2200
2100
2000
1900
1800
1700
1600
1500
1400

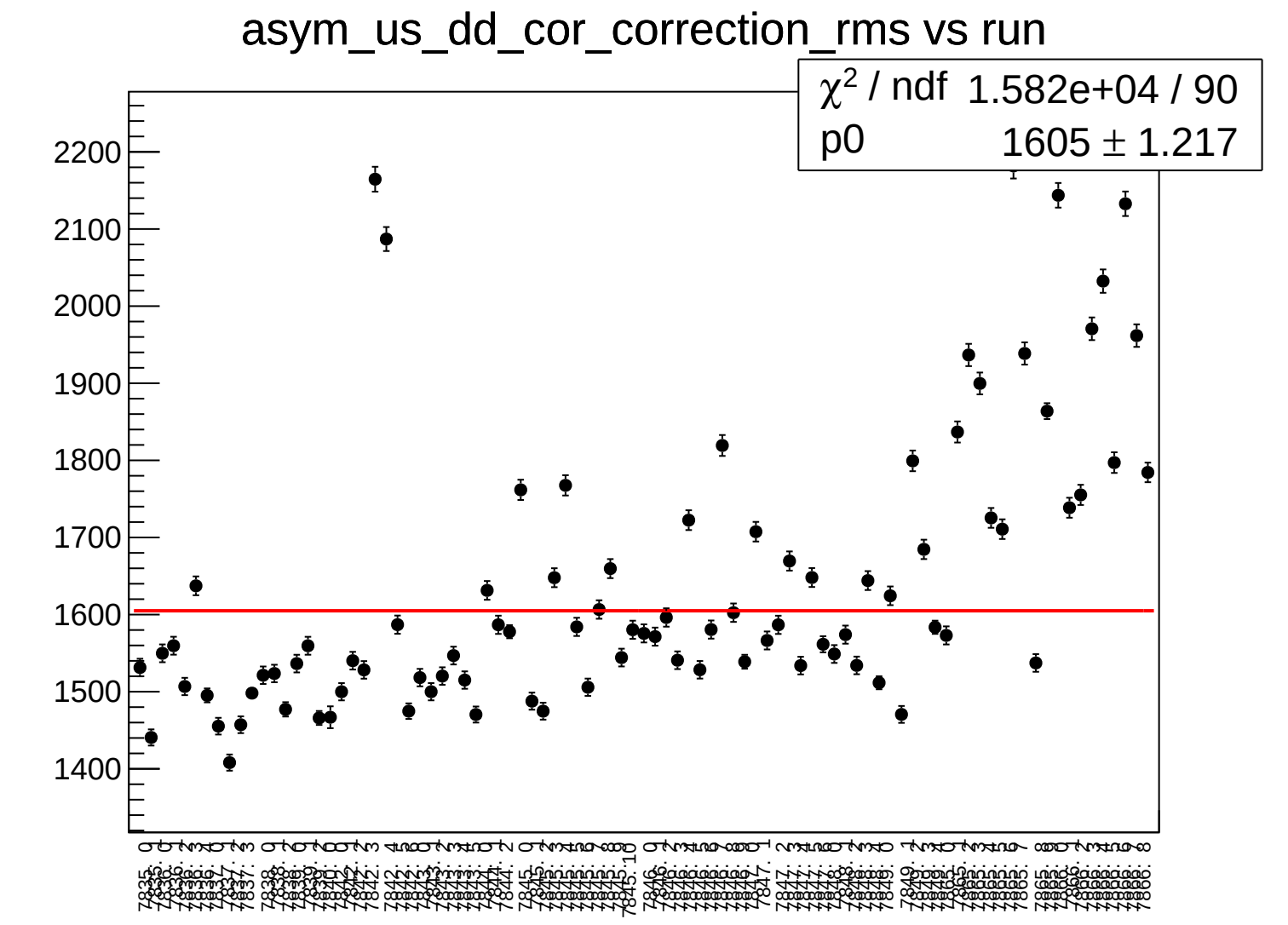

cor_asym_us_dd_mean vs run
χ² / ndf 90.42 / 90
p0 −533.5 ± 816.5
pull
Entries 91
Mean −810.8
Std Dev 0

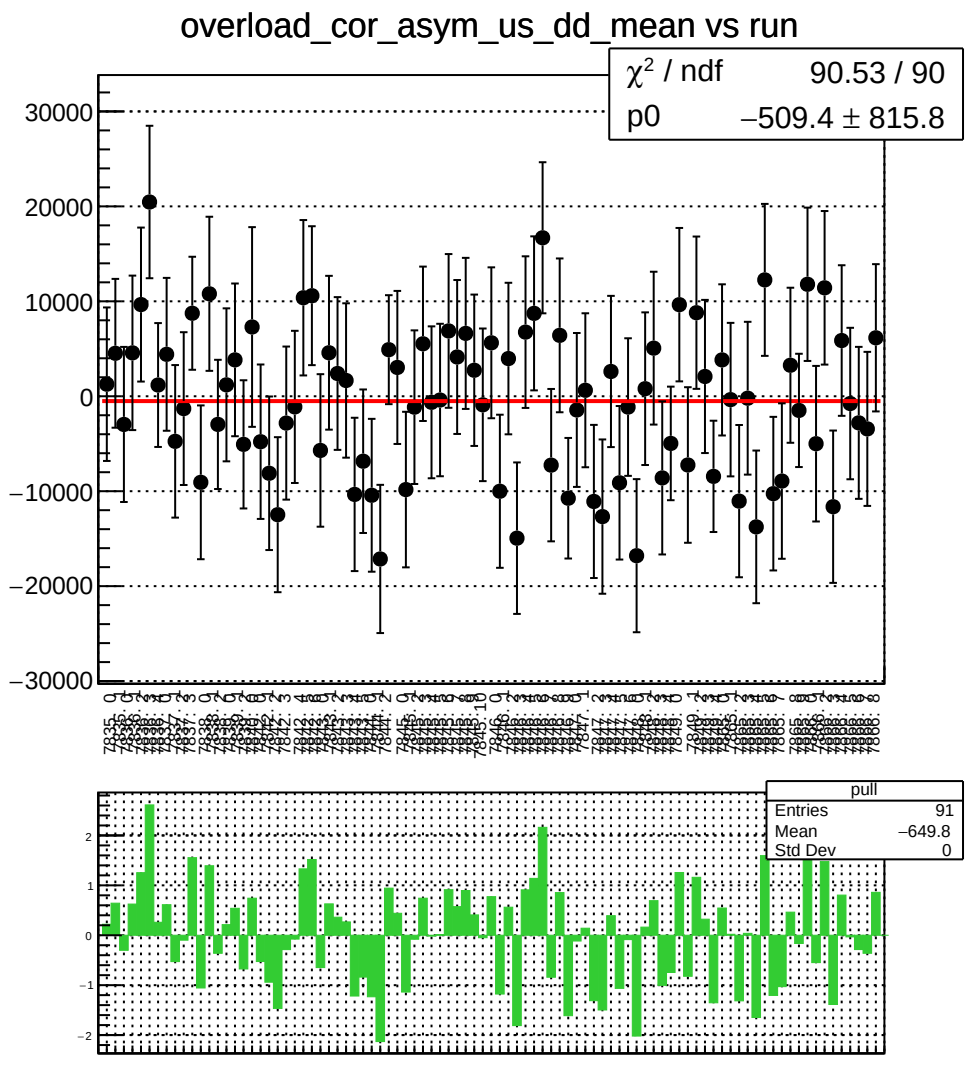

pull1D
Entries 91
Mean 0.003997
Std Dev 0.9968

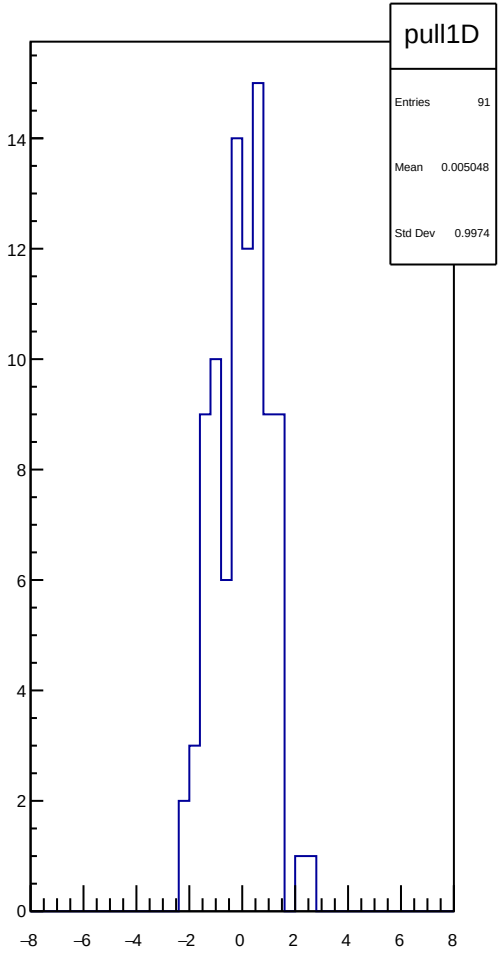

cor_asym_us_dd_rms vs run
χ² / ndf 125.6 / 90
p0 764.8 ± 0.5773
780
770
760
750
740

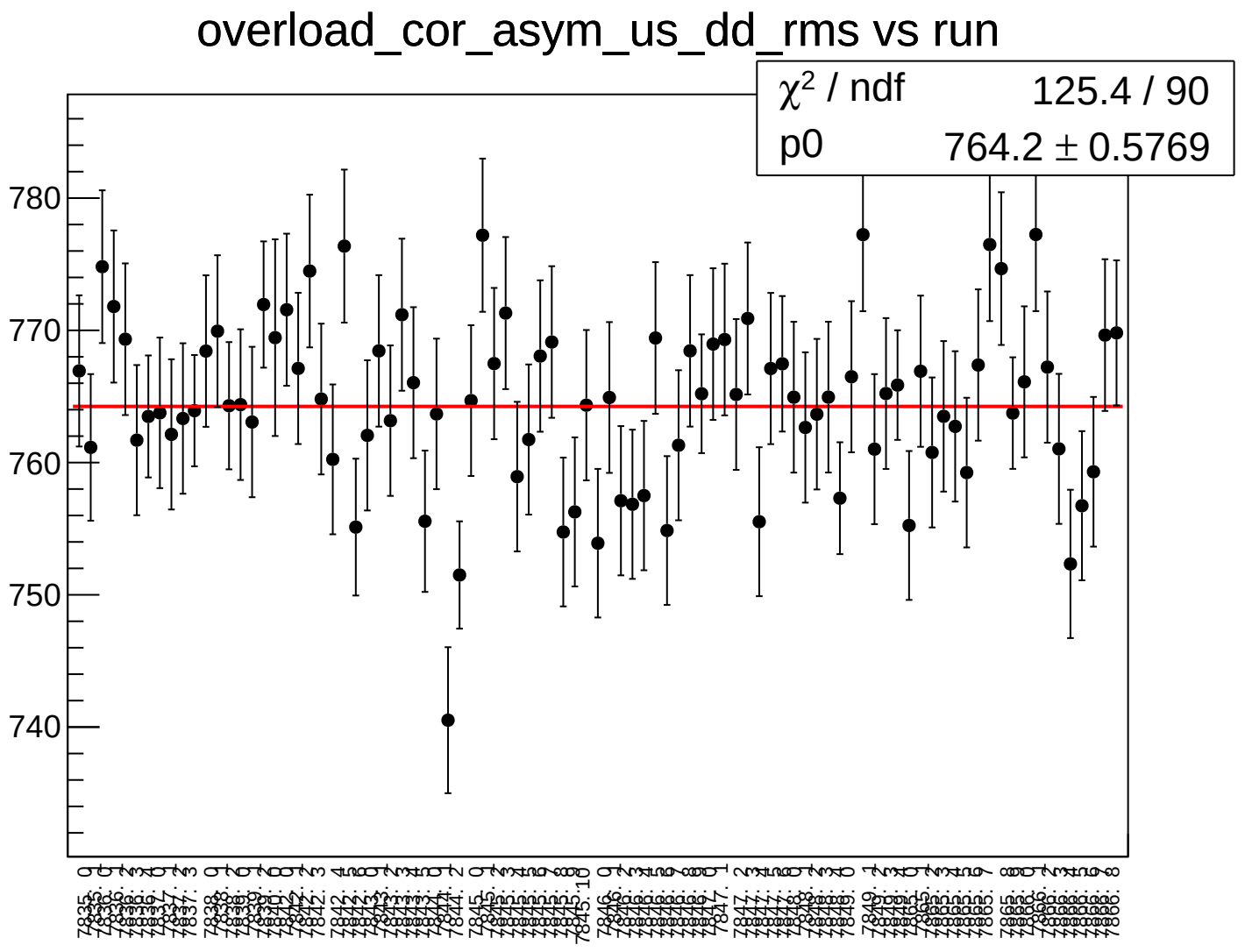

asym_us_dd_cor_correction_mean vs run
χ² / ndf 79.65 / 90
p0 −176.5 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 107.2
Std Dev 0
2
1
0
−1
−2

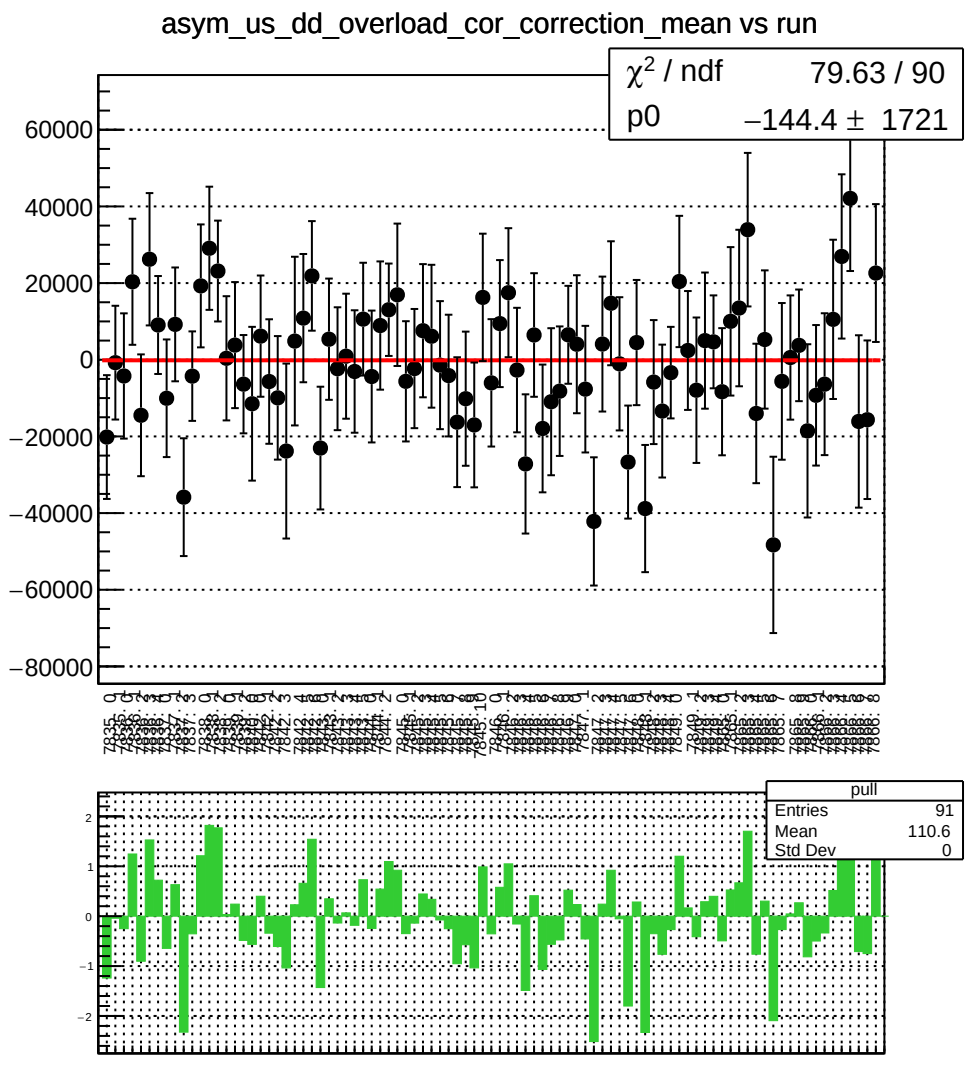

pull1D
Entries 91
Mean −0.01544
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

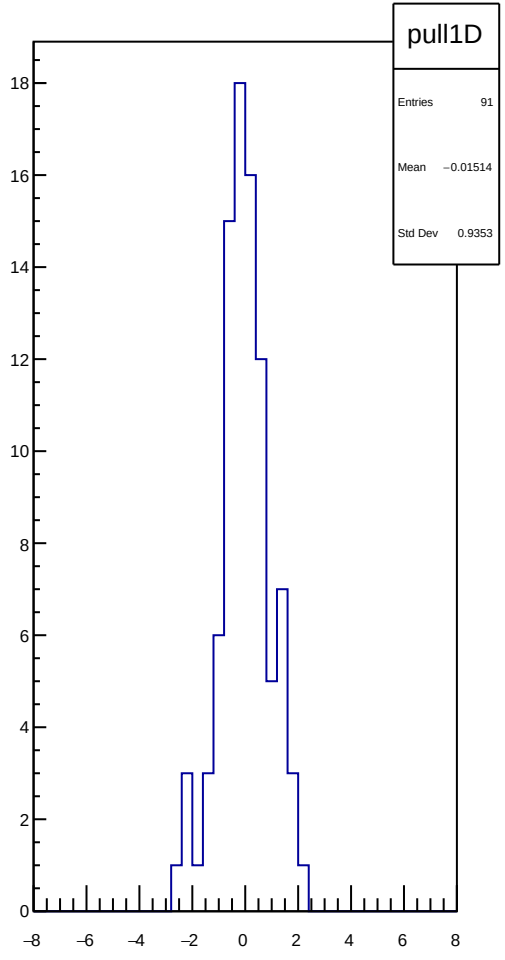

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 90
p0 1605 ± 1.217
2200
2100
2000
1900
1800
1700
1600
1500
1400

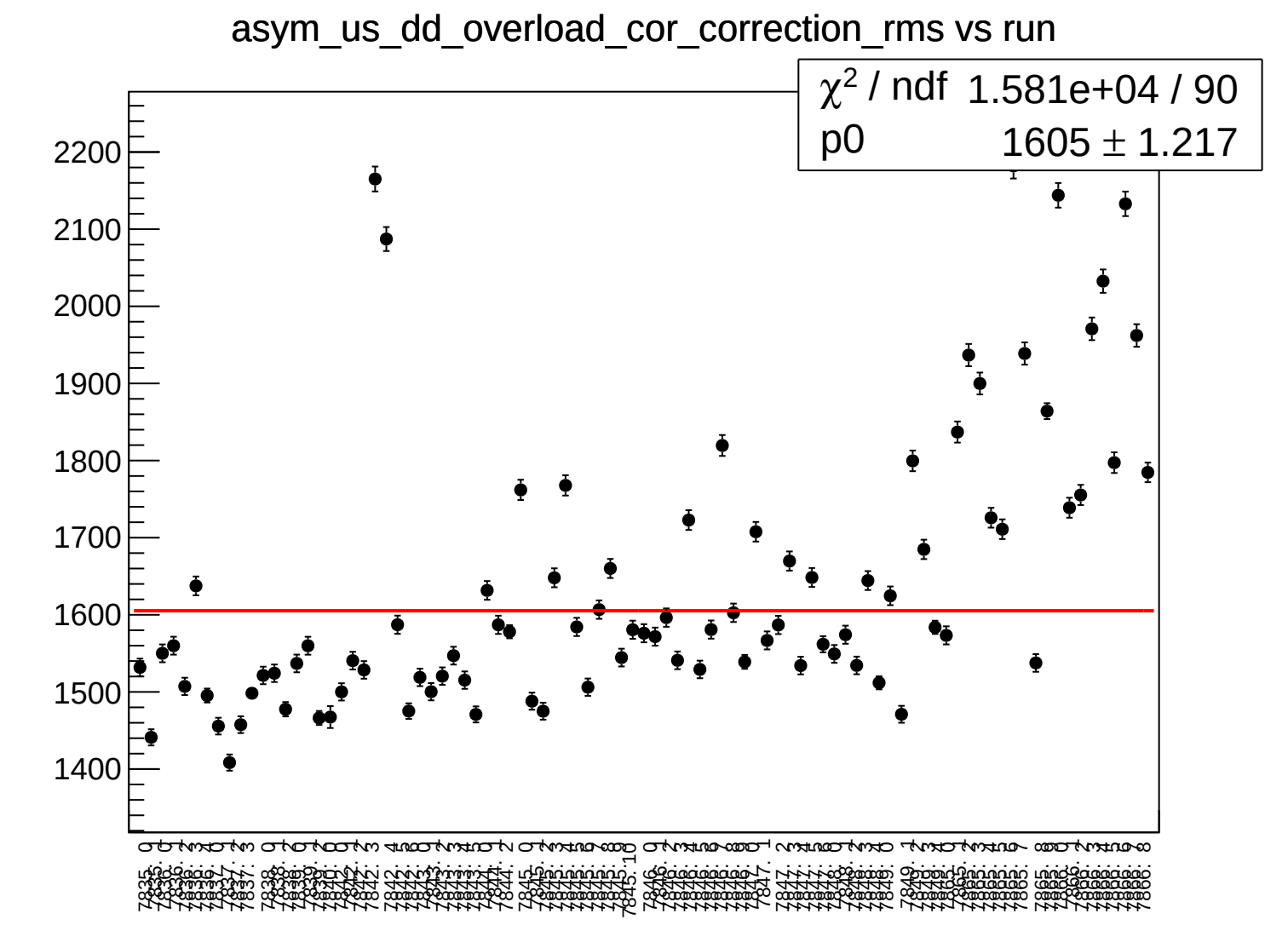

overload_cor_asym_us_dd_mean vs run
χ² / ndf 90.53 / 90
p0 −509.4 ± 815.8
pull
Entries 91
Mean −649.8
Std Dev 0

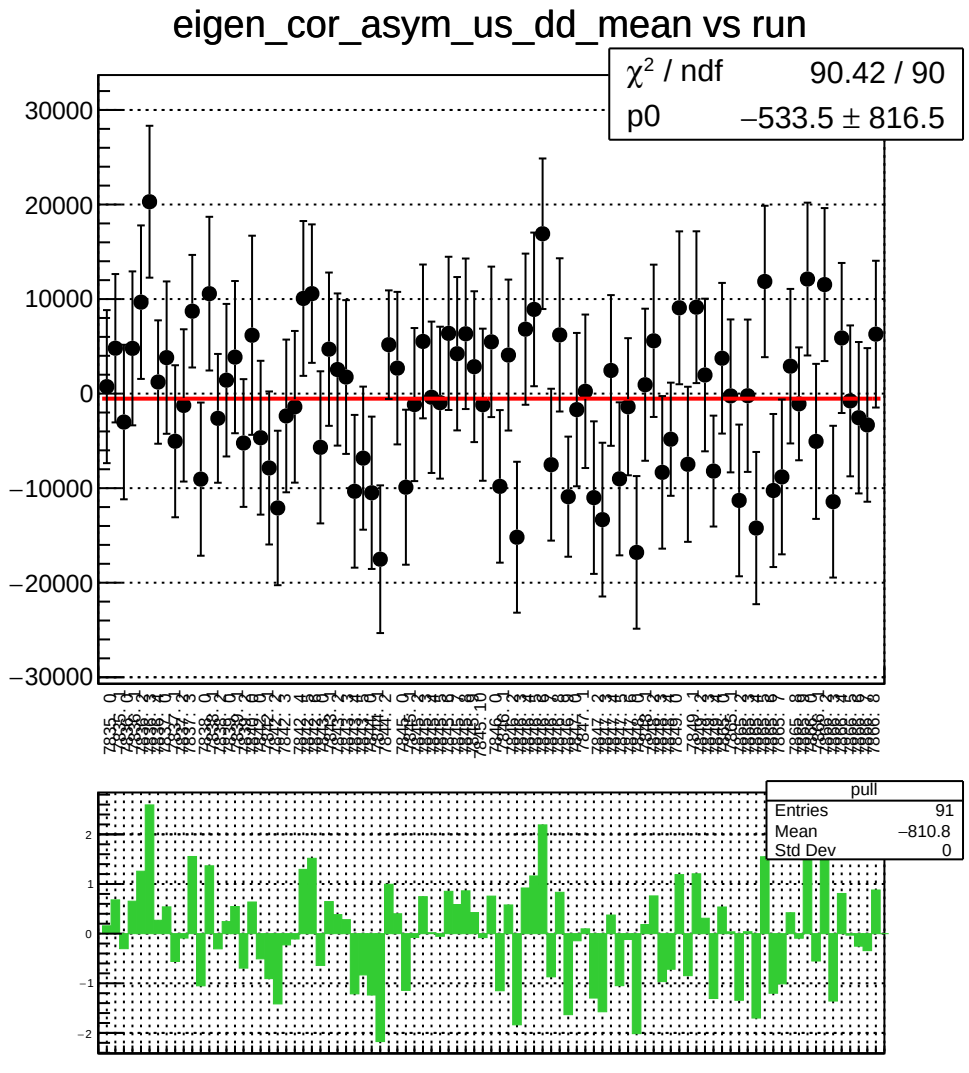

pull1D
Entries 91
Mean 0.005048
Std Dev 0.9974

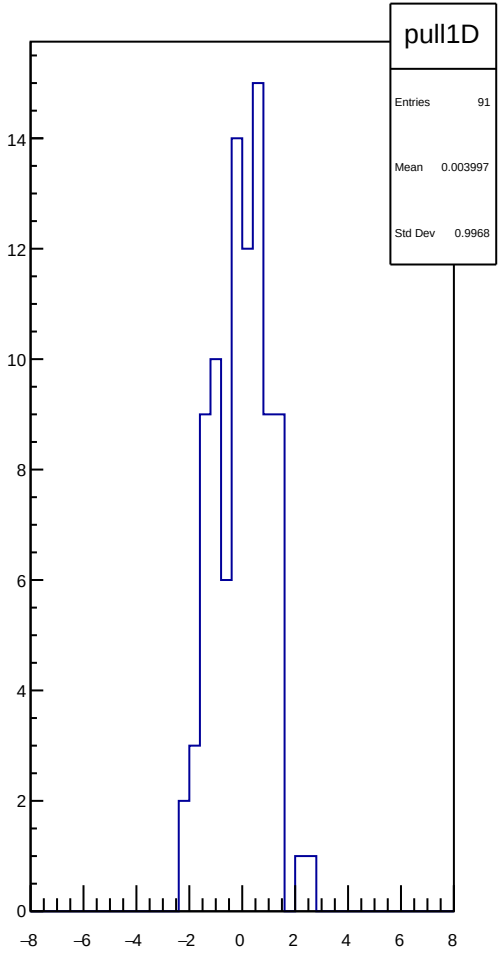

overload_cor_asym_us_dd_rms vs run
χ² / ndf 125.4 / 90
p0 764.2 ± 0.5769
780
770
760
750
740

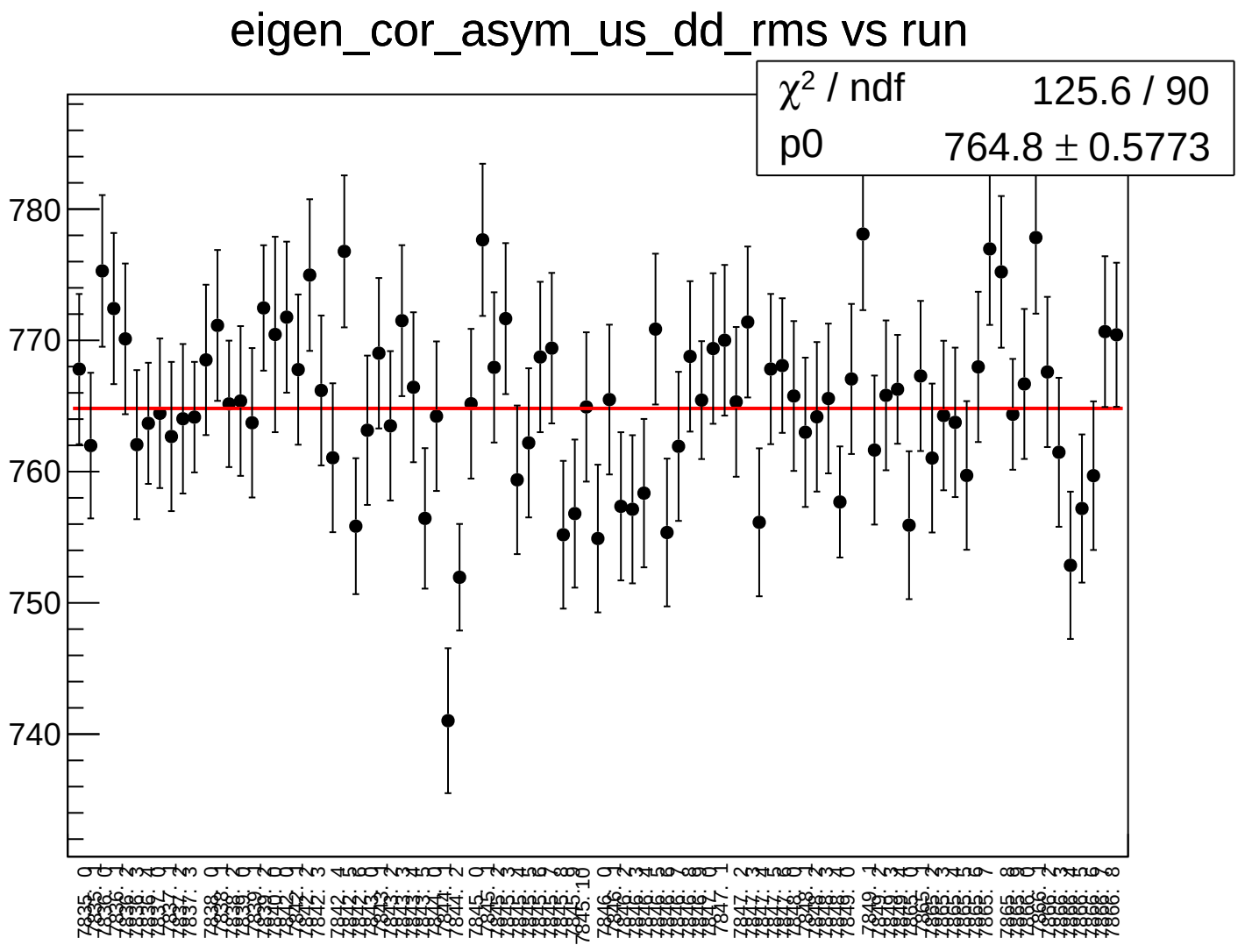

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 79.63 / 90
p0 −144.4 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 110.6
Std Dev 0
2
1
0
−1
−2

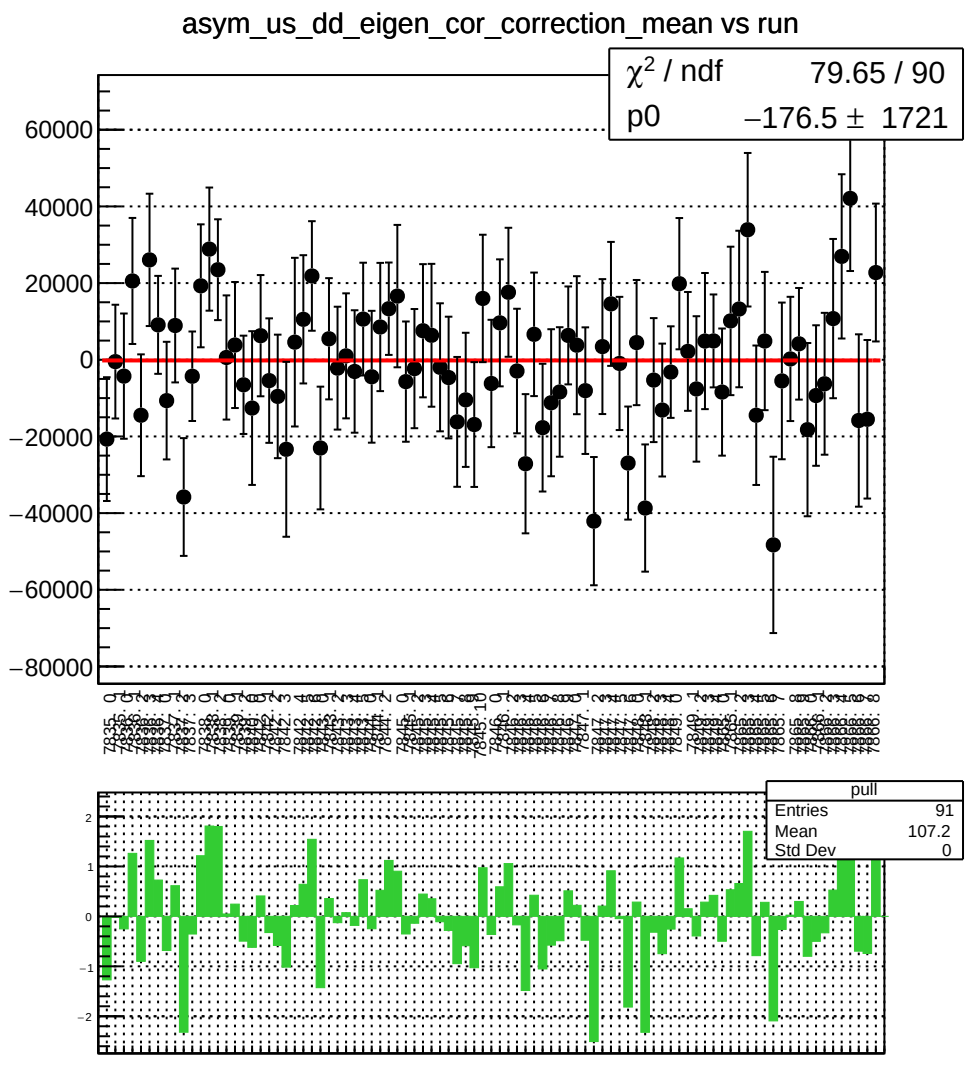

pull1D
Entries 91
Mean −0.01514
Std Dev 0.9353
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

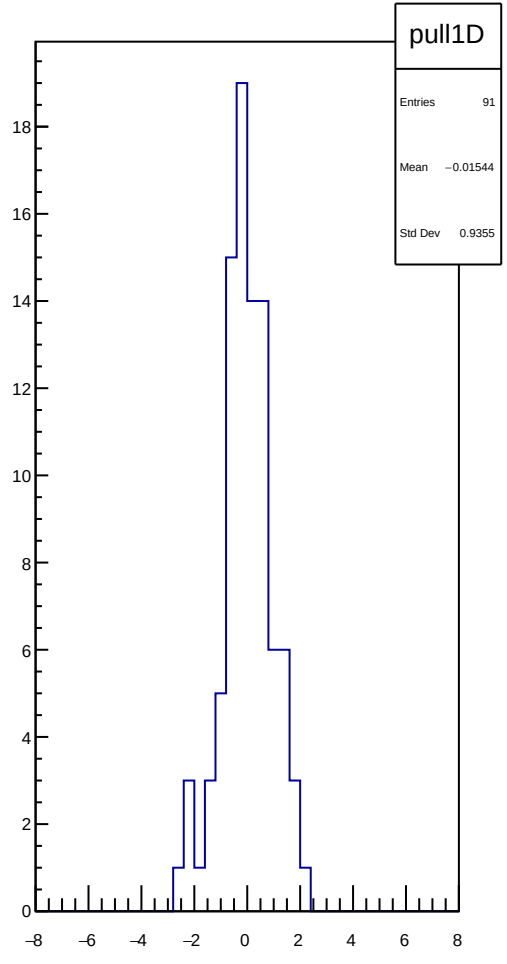

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.581e+04 / 90
p0 1605 ± 1.217
2200
2100
2000
1900
1800
1700
1600
1500
1400

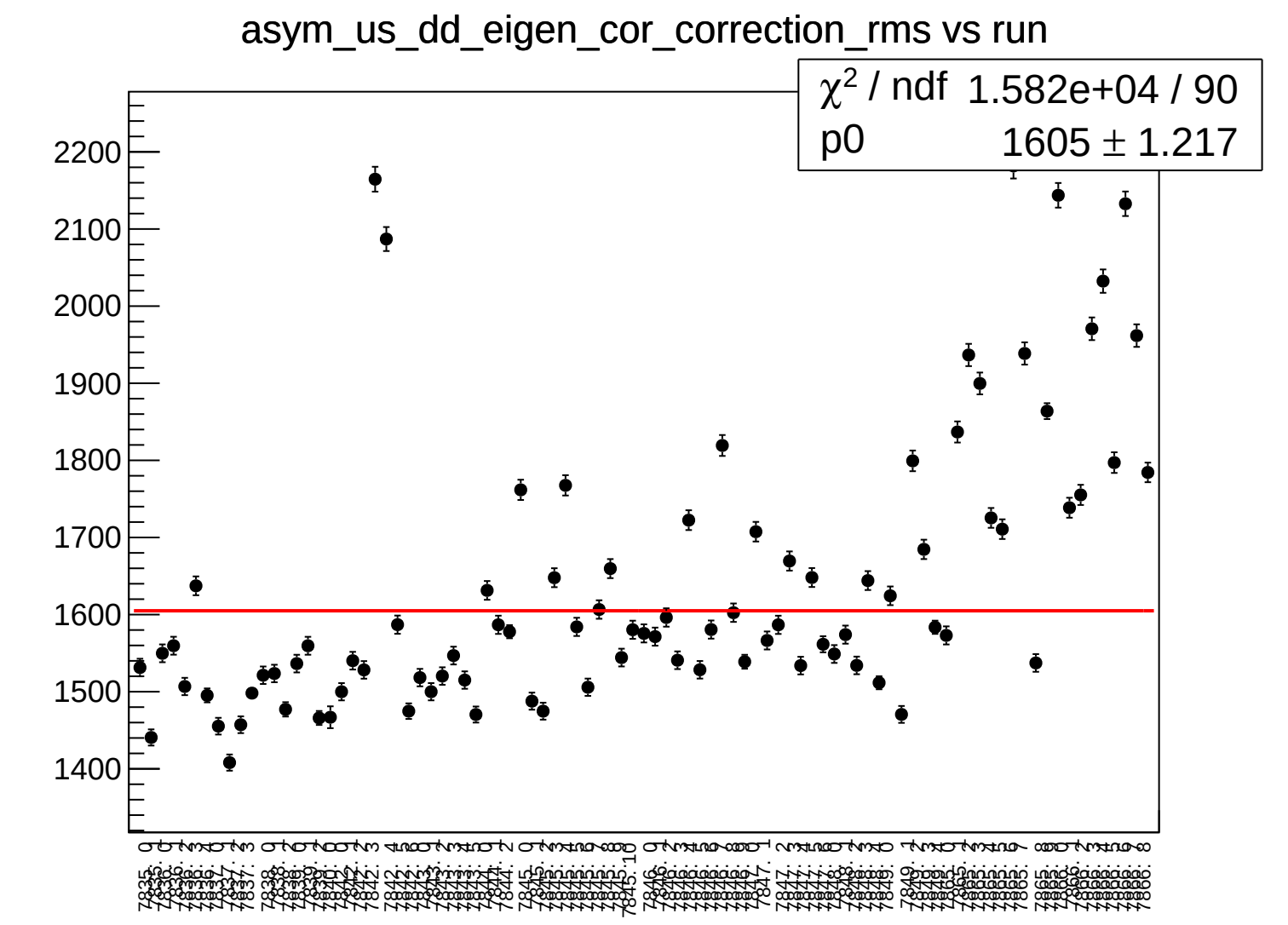

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 90.42 / 90
p0 −533.5 ± 816.5
pull
Entries 91
Mean −810.8
Std Dev 0

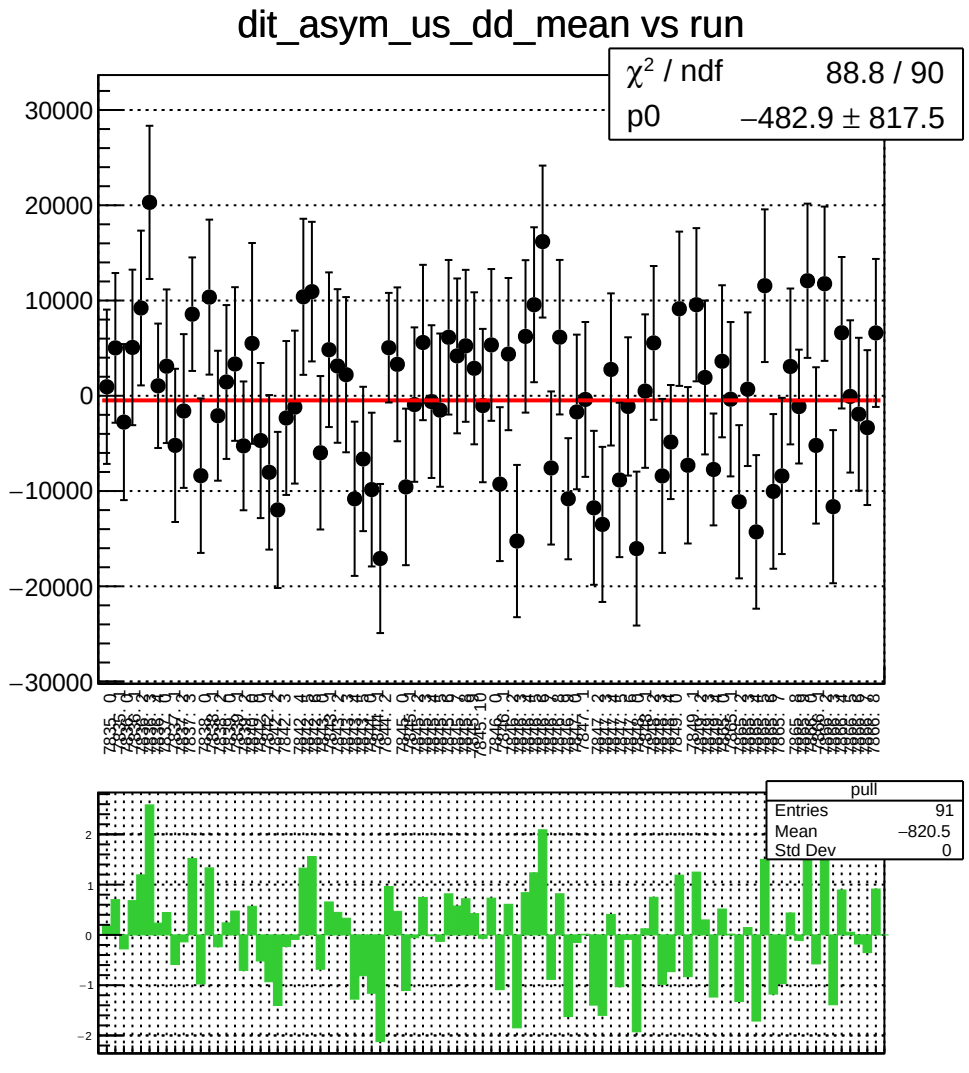

pull1D
Entries 91
Mean 0.003997
Std Dev 0.9968

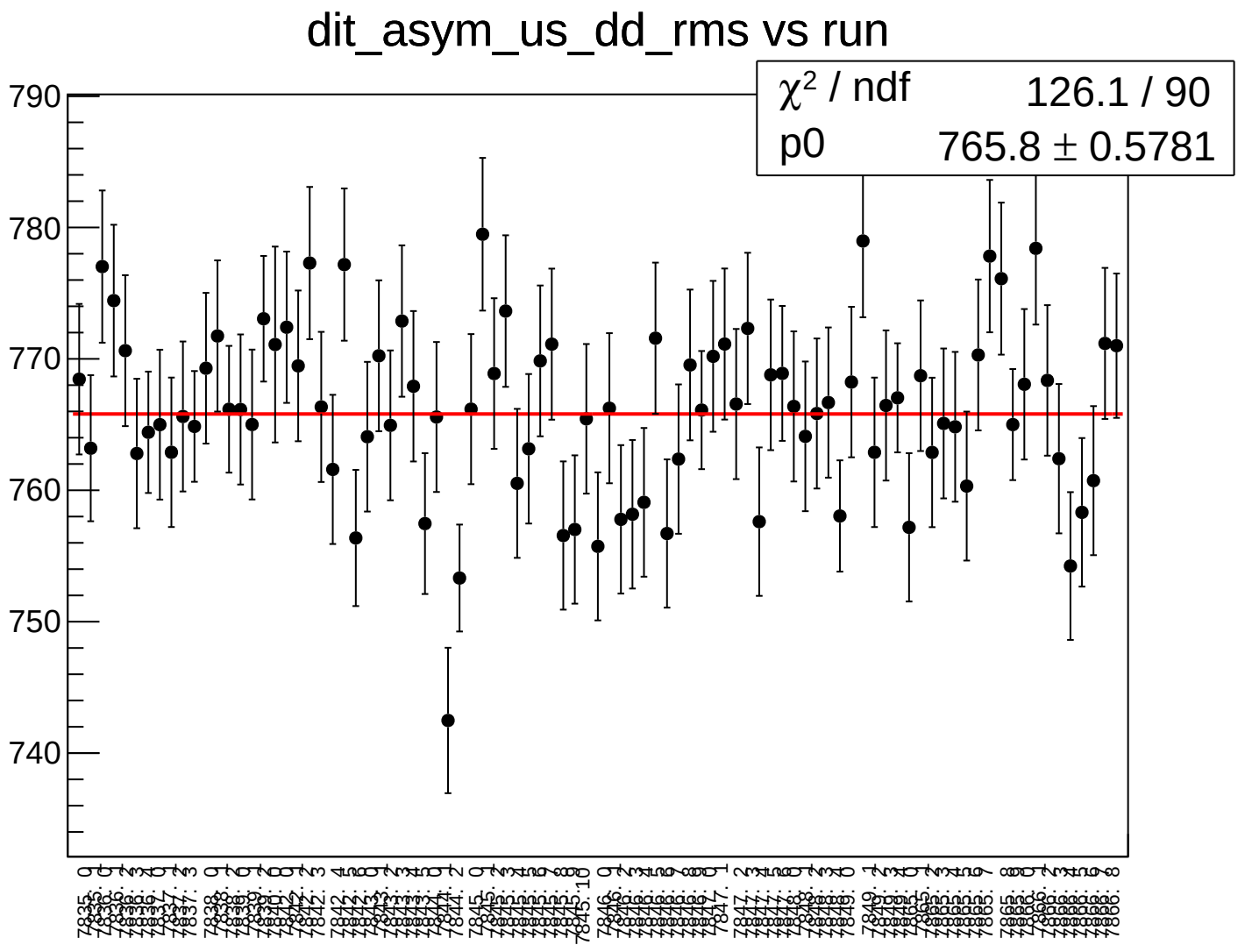

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 125.6 / 90
p0 764.8 ± 0.5773
780
770
760
750
740

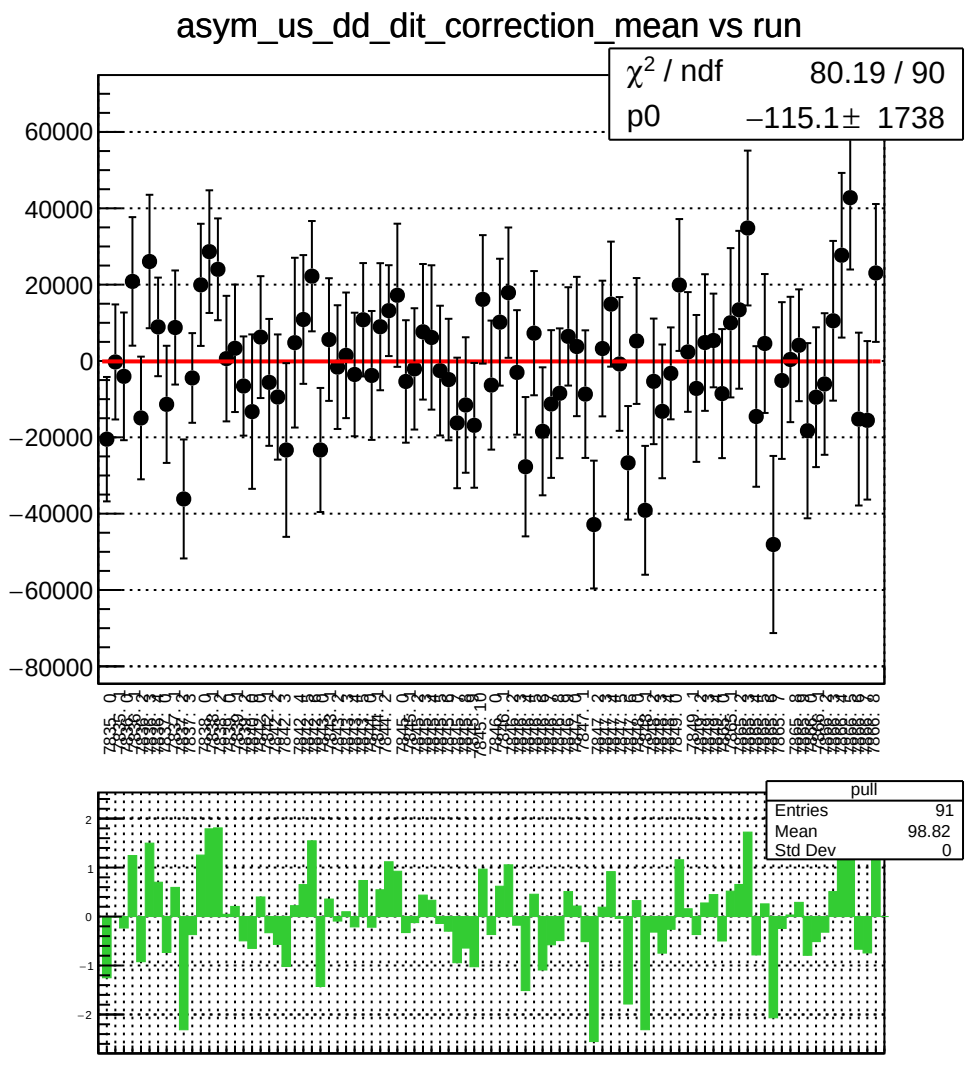

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.65 / 90
p0 −176.5 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 107.2
Std Dev 0
2
1
0
−1
−2

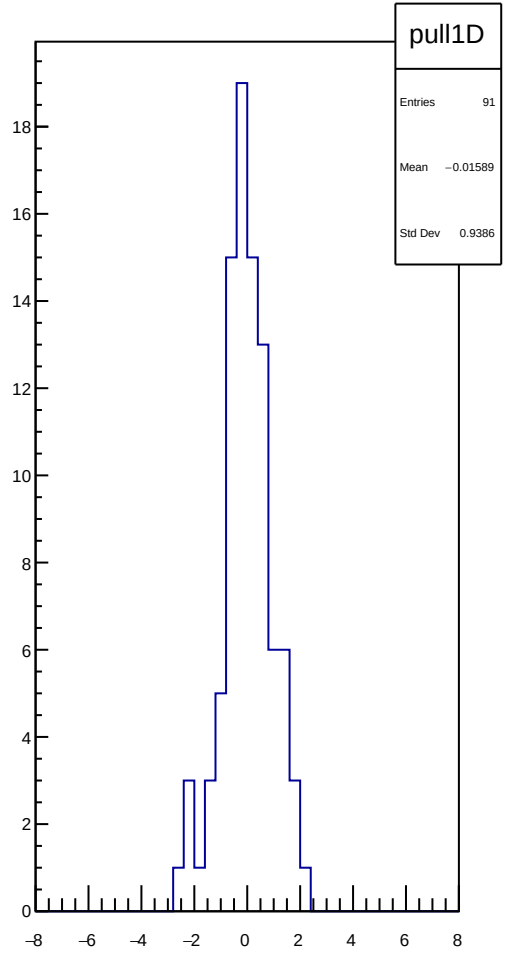

pull1D
Entries 91
Mean −0.01544
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 90
p0 1605 ± 1.217
2200
2100
2000
1900
1800
1700
1600
1500
1400

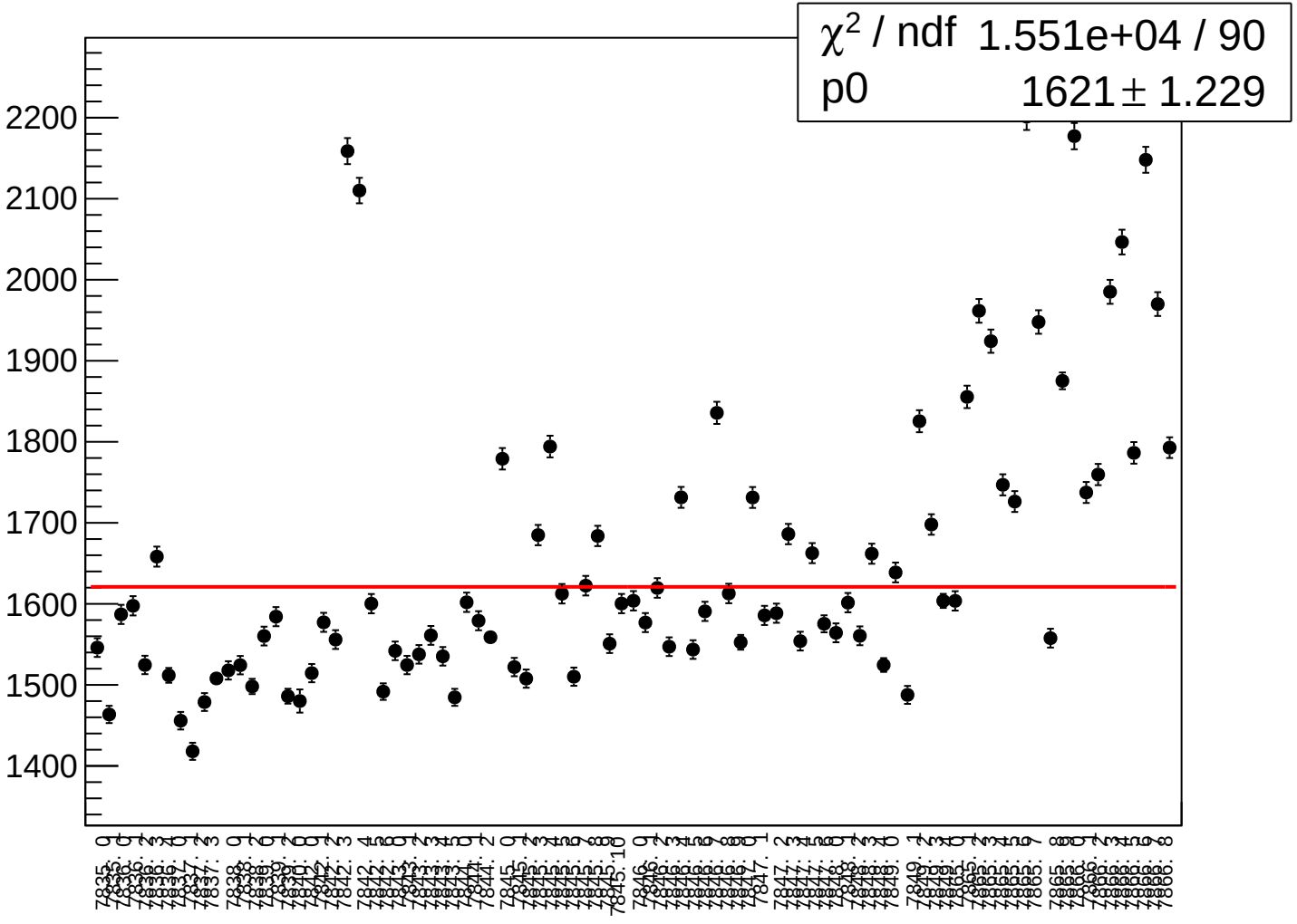

dit_asym_us_dd_mean vs run
χ² / ndf 88.8 / 90
p0 −482.9 ± 817.5
pull
Entries 91
Mean −820.5
Std Dev 0
pull1D
Entries 91
Mean 0.003726
Std Dev 0.9878

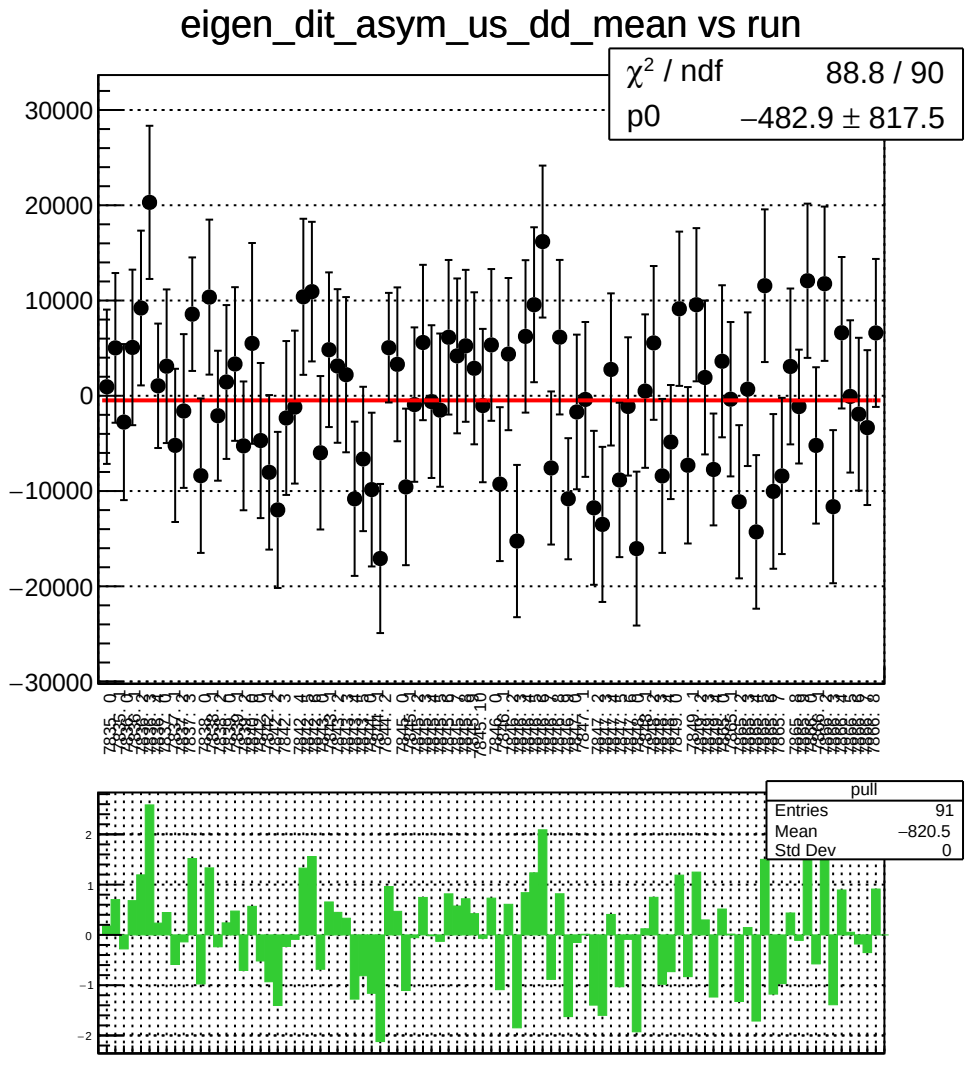

dit_asym_us_dd_rms vs run
χ² / ndf 126.1 / 90
p0 765.8 ± 0.5781
790
780
770
760
750
740

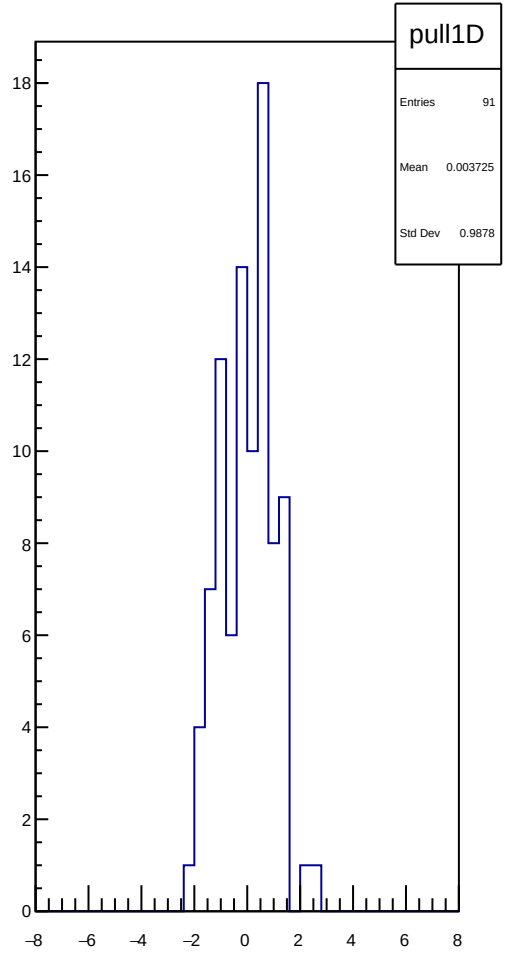

asym_us_dd_dit_correction_mean vs run
χ² / ndf 80.19 / 90
p0 −115.1± 1738
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 98.82
Std Dev 0
2
1
0
−1
−2

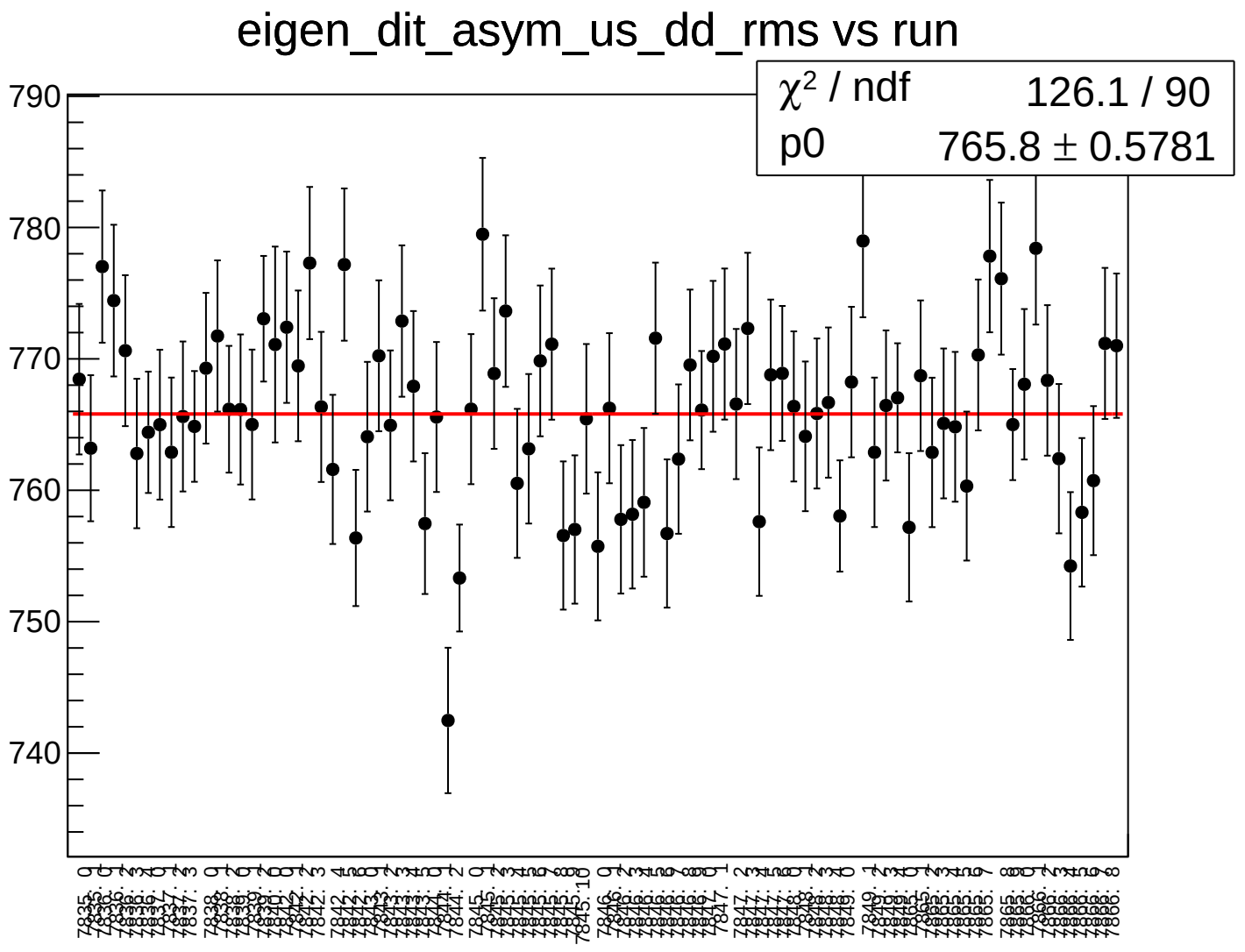

pull1D
Entries 91
Mean −0.01589
Std Dev 0.9386
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

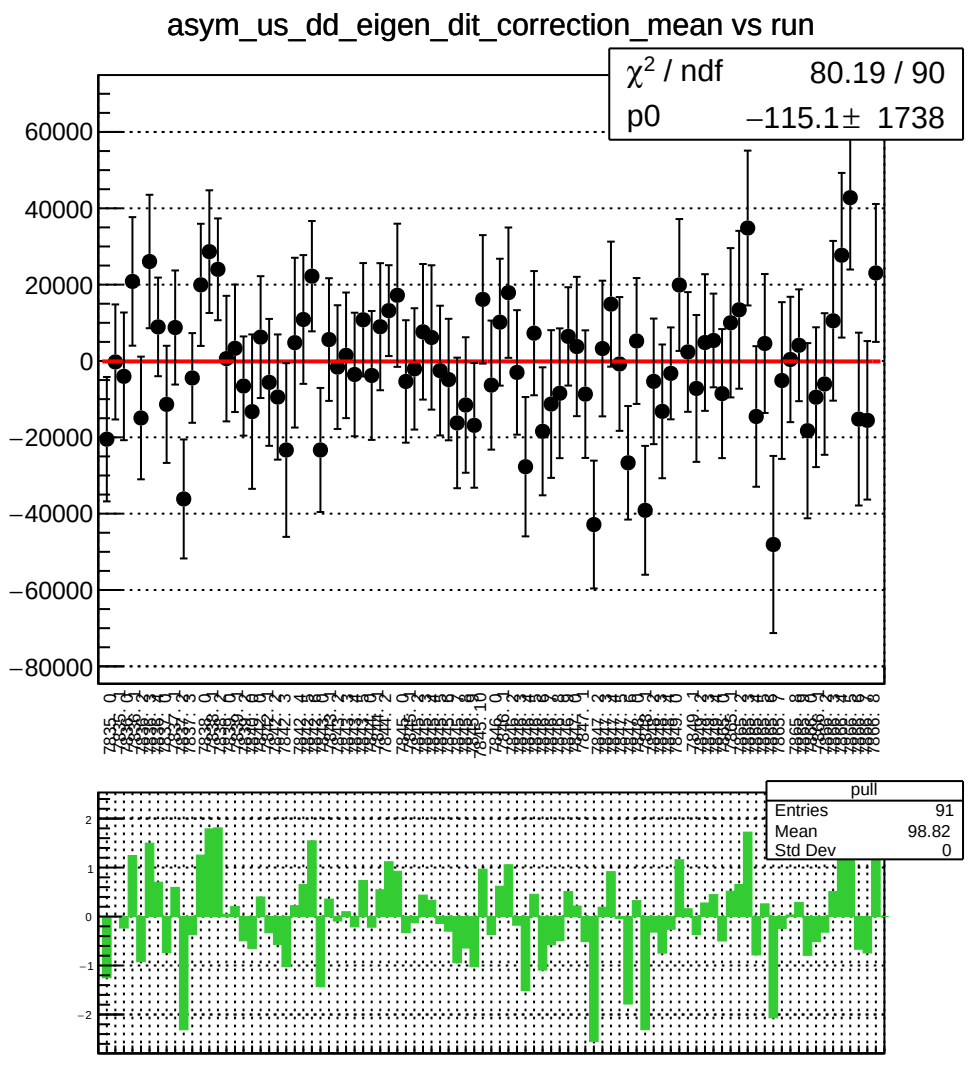
asym_us_dd_dit_correction_rms vs run

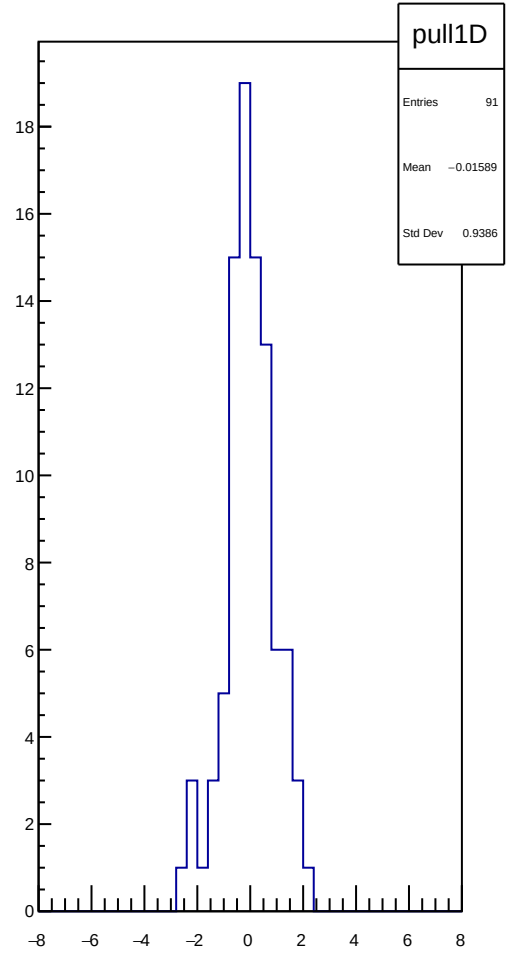


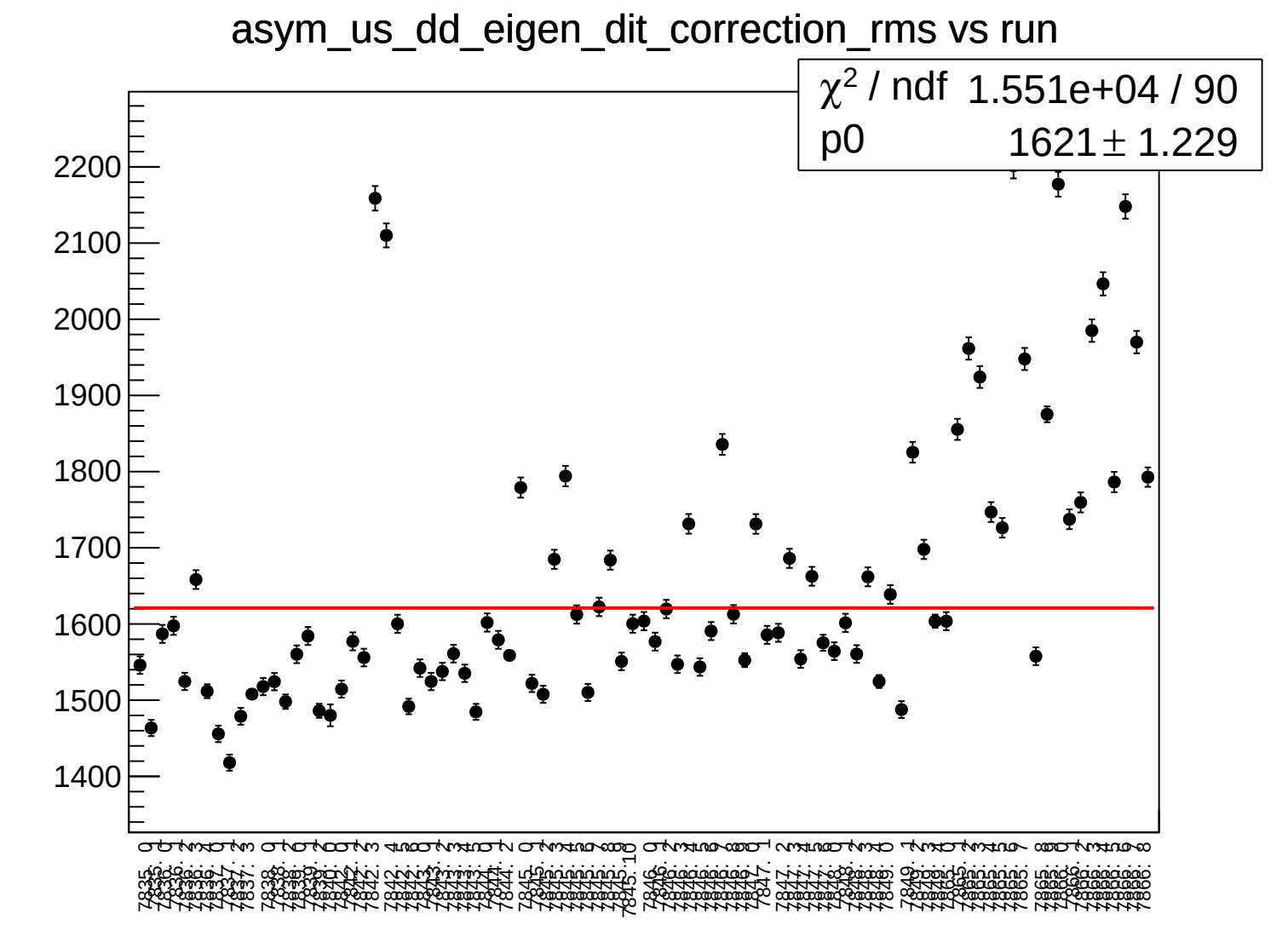

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 88.8 / 90
p0 −482.9 ± 817.5
pull
Entries 91
Mean −820.5
Std Dev 0

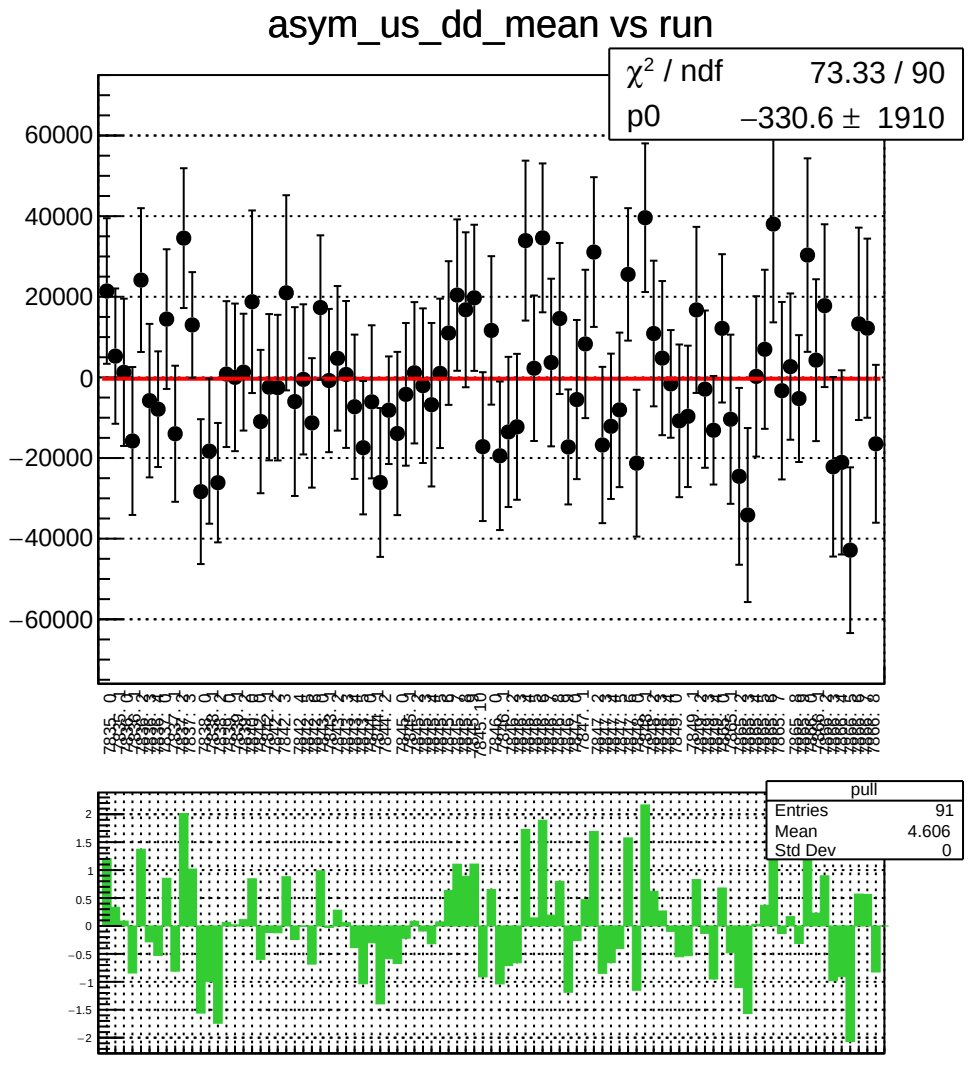

pull1D
Entries 91
Mean 0.003725
Std Dev 0.9878

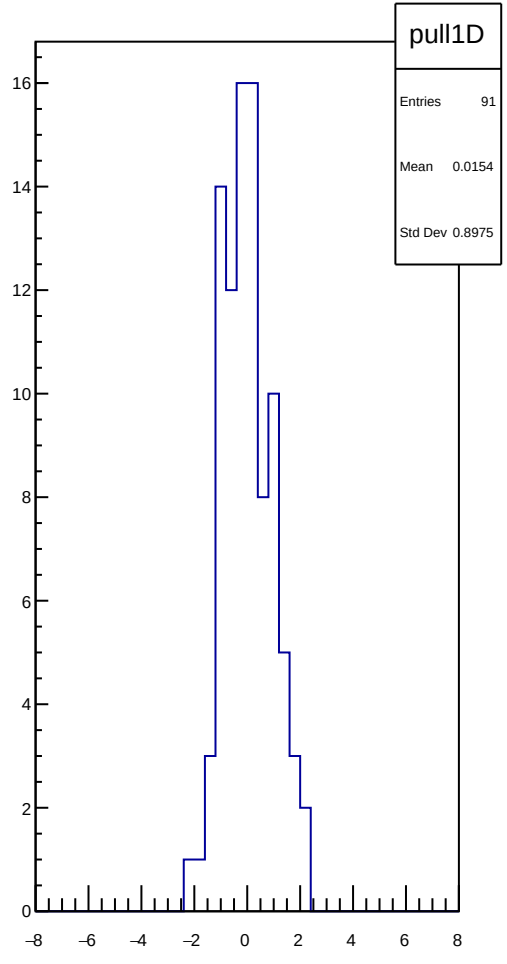

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 126.1 / 90
p0 765.8 ± 0.5781
790
780
770
760
750
740

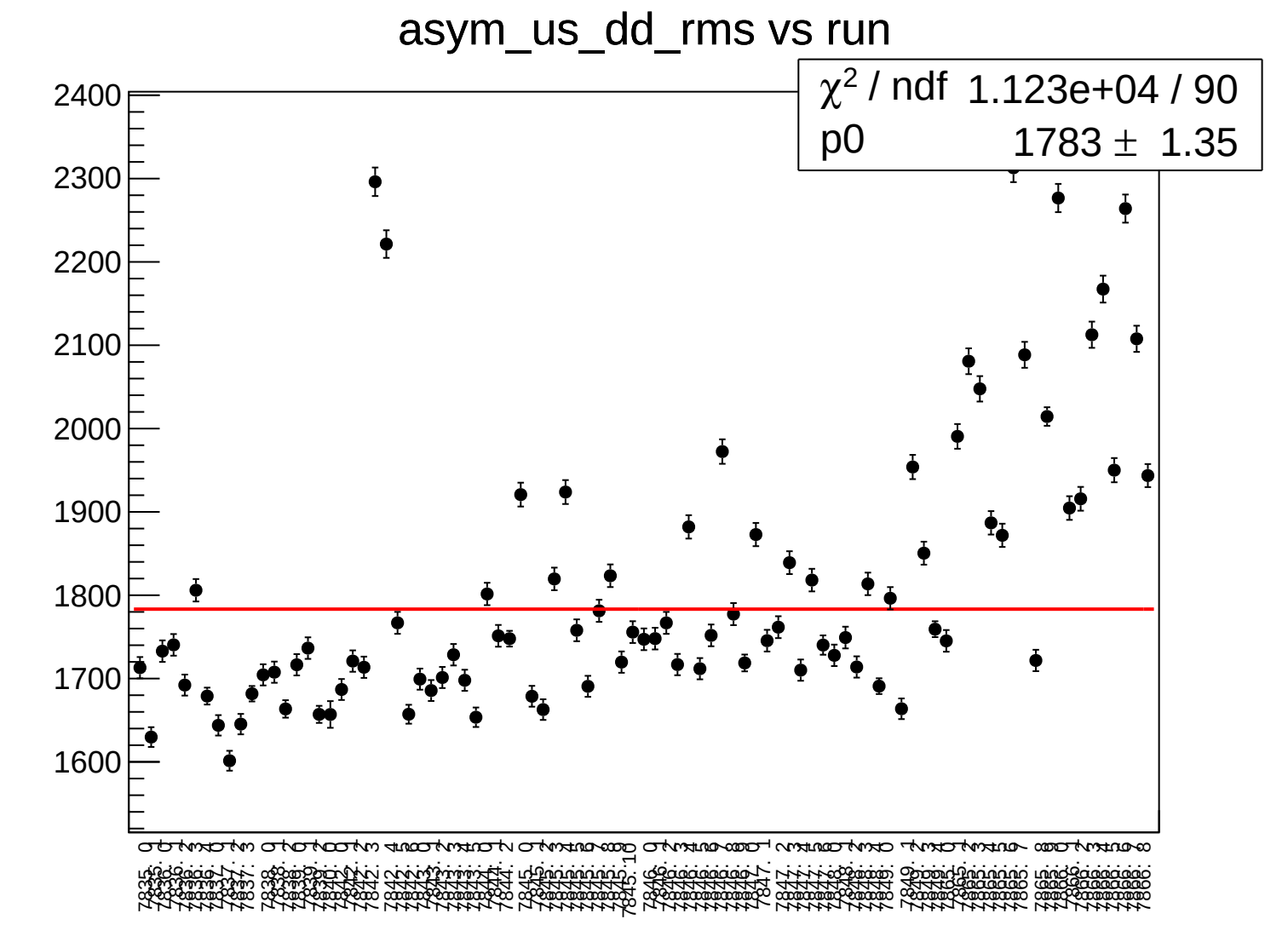

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.19 / 90
p0 −115.1± 1738
pull
Entries 91
Mean 98.82
Std Dev 0

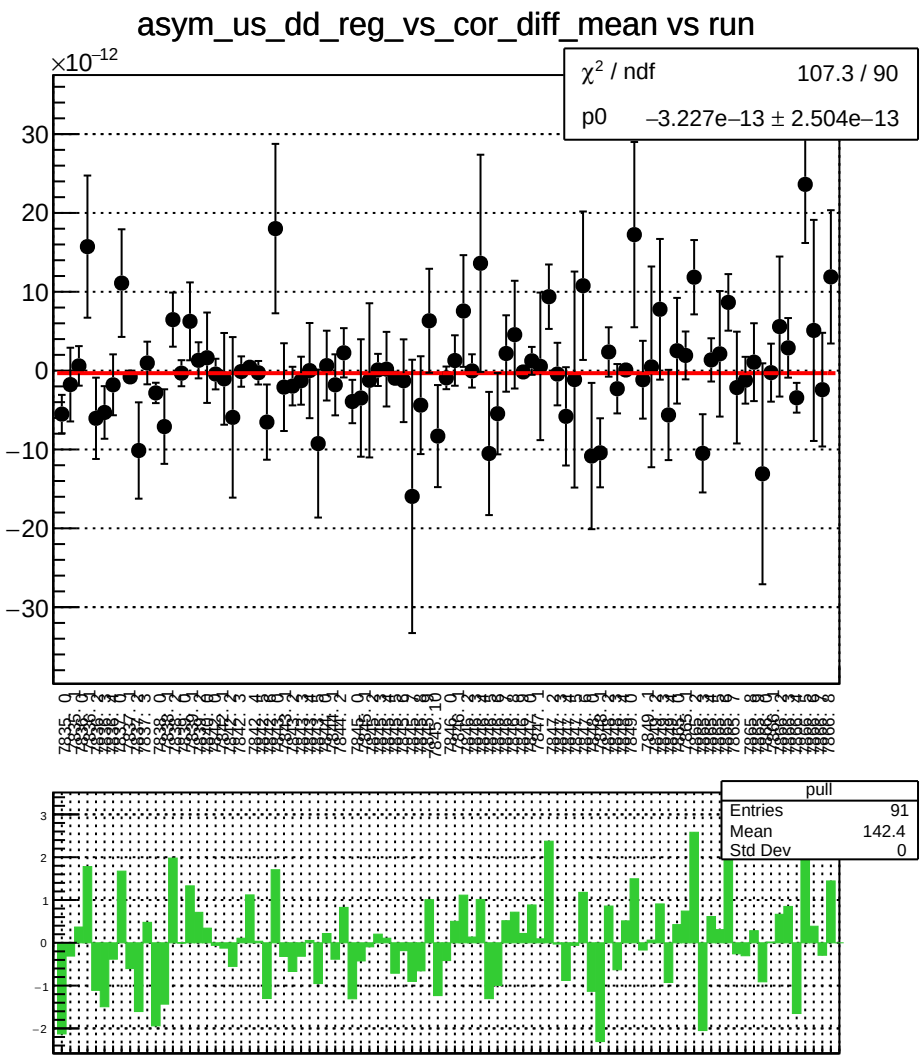

pull1D
Entries 91
Mean −0.01589
Std Dev 0.9386

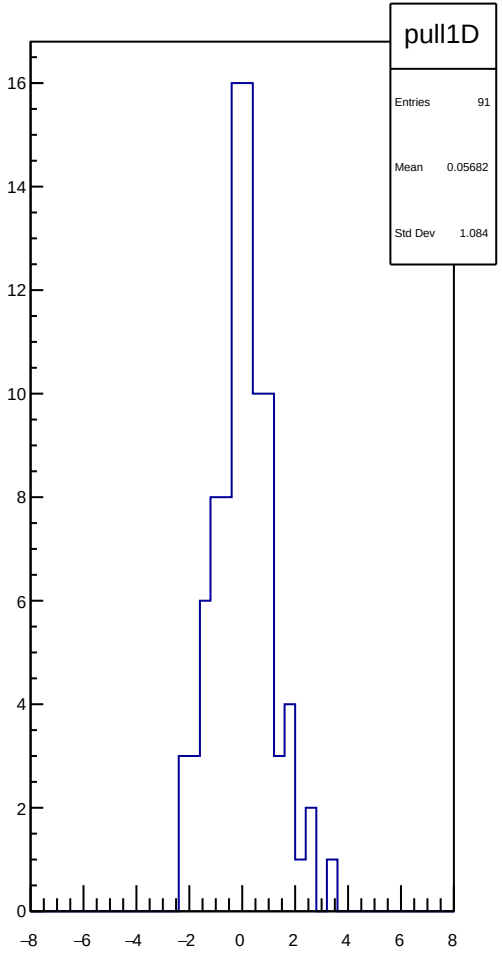

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.551e+04 / 90
p0 1621 ± 1.229
2200
2100
2000
1900
1800
1700
1600
1500
1400

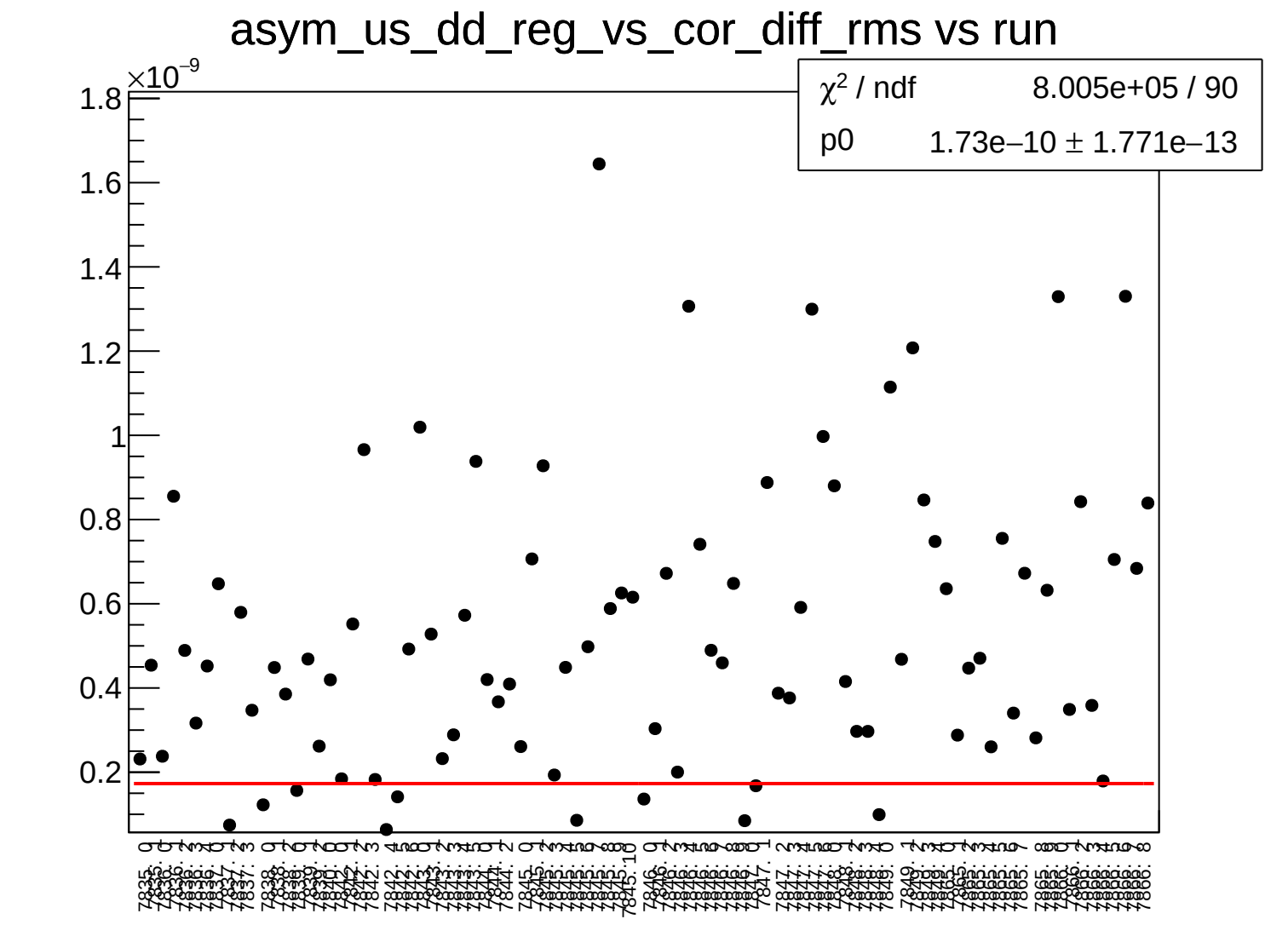

asym_us_dd_mean vs run
χ² / ndf 73.33 / 90
p0 −330.6 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 4.606
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

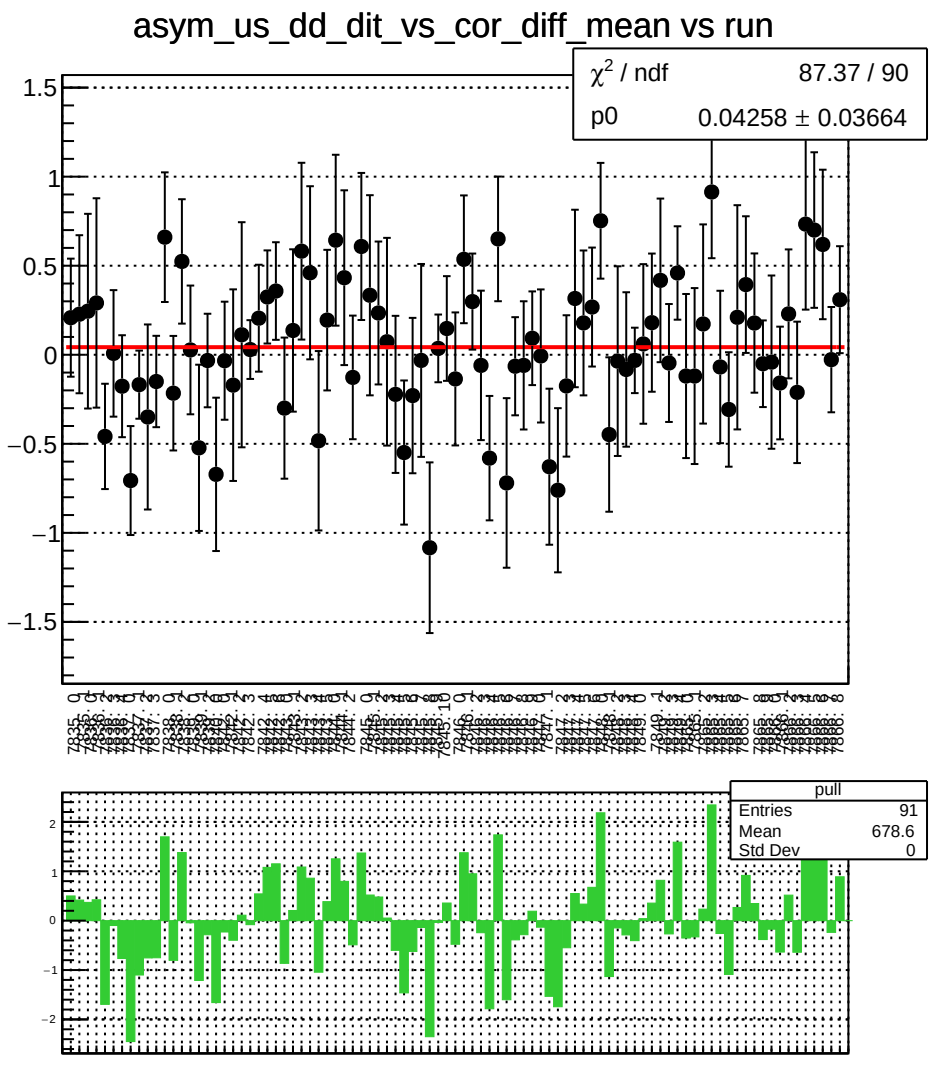

pull1D
Entries 91
Mean 0.0154
Std Dev 0.8975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

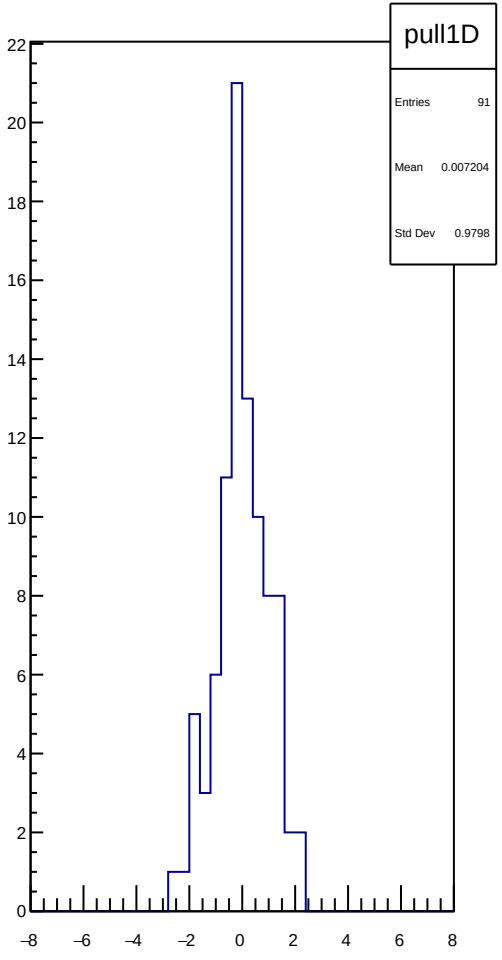

asym_us_dd_rms vs run
χ² / ndf 1.123e+04 / 90
p0 1783 ± 1.35
2400
2300
2200
2100
2000
1900
1800
1700
1600

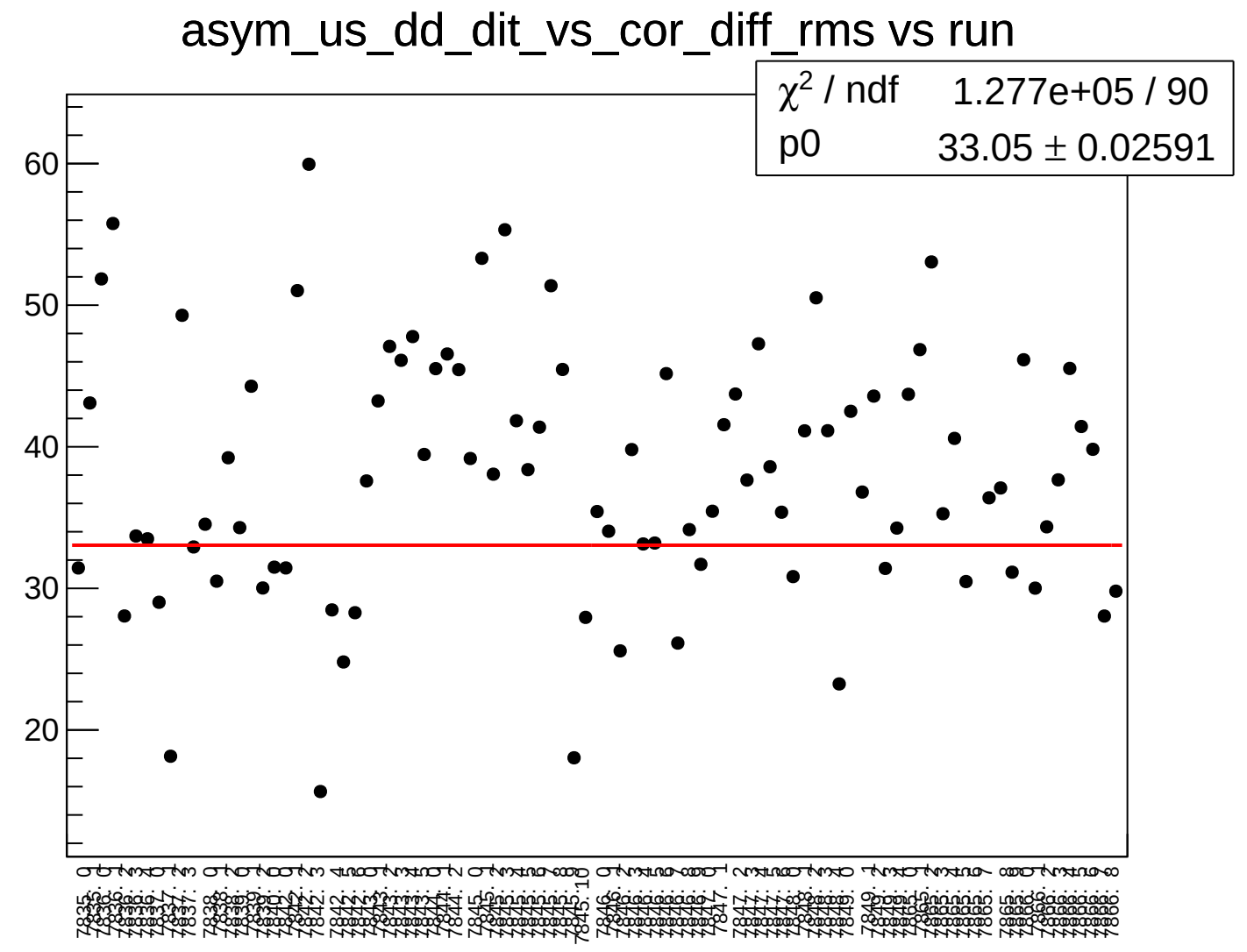

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.3 / 90
p0 −3.227e−13 ± 2.504e−13
pull
Entries 91
Mean 142.4
Std Dev 0

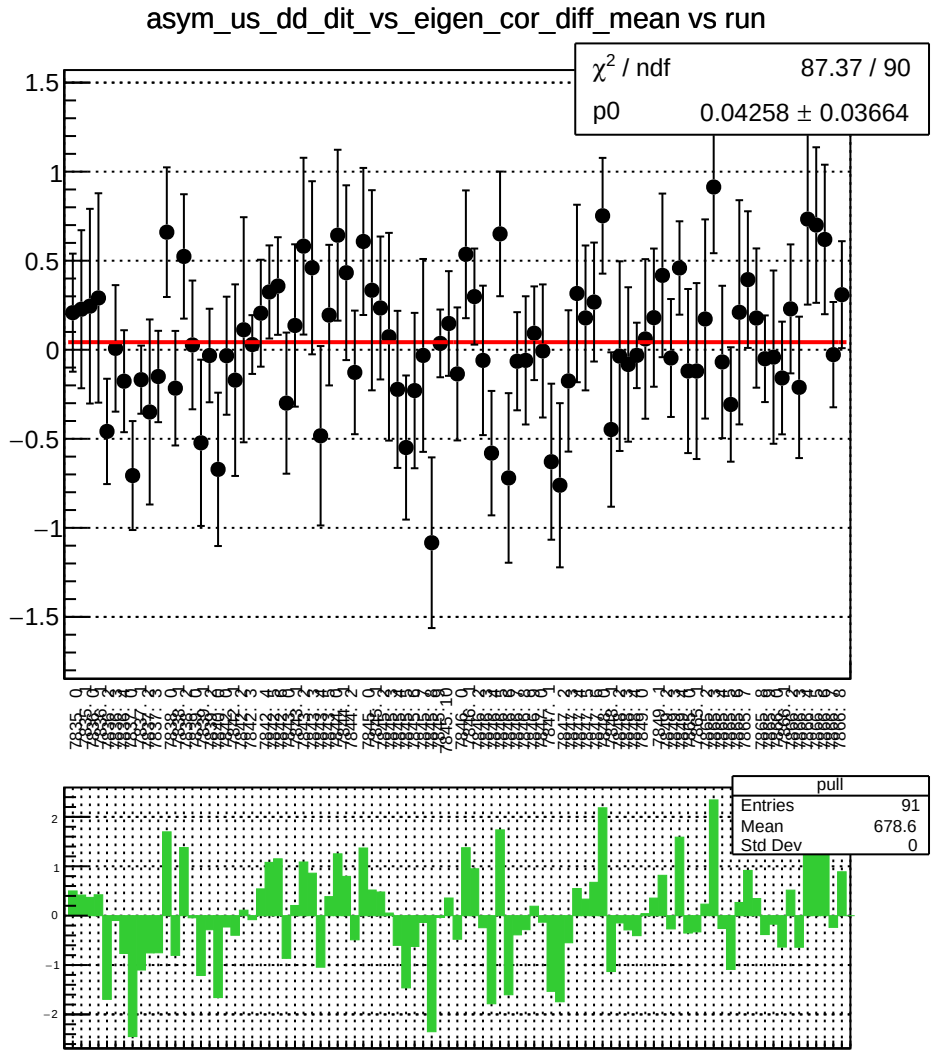

pull1D
Entries 91
Mean 0.05682
Std Dev 1.084

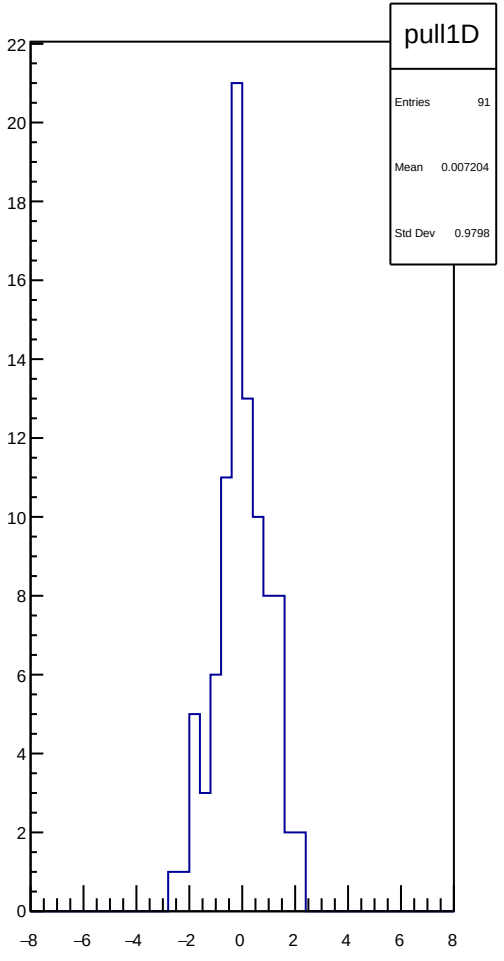

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.005e+05 / 90
p0 1.73e−10 ± 1.771e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

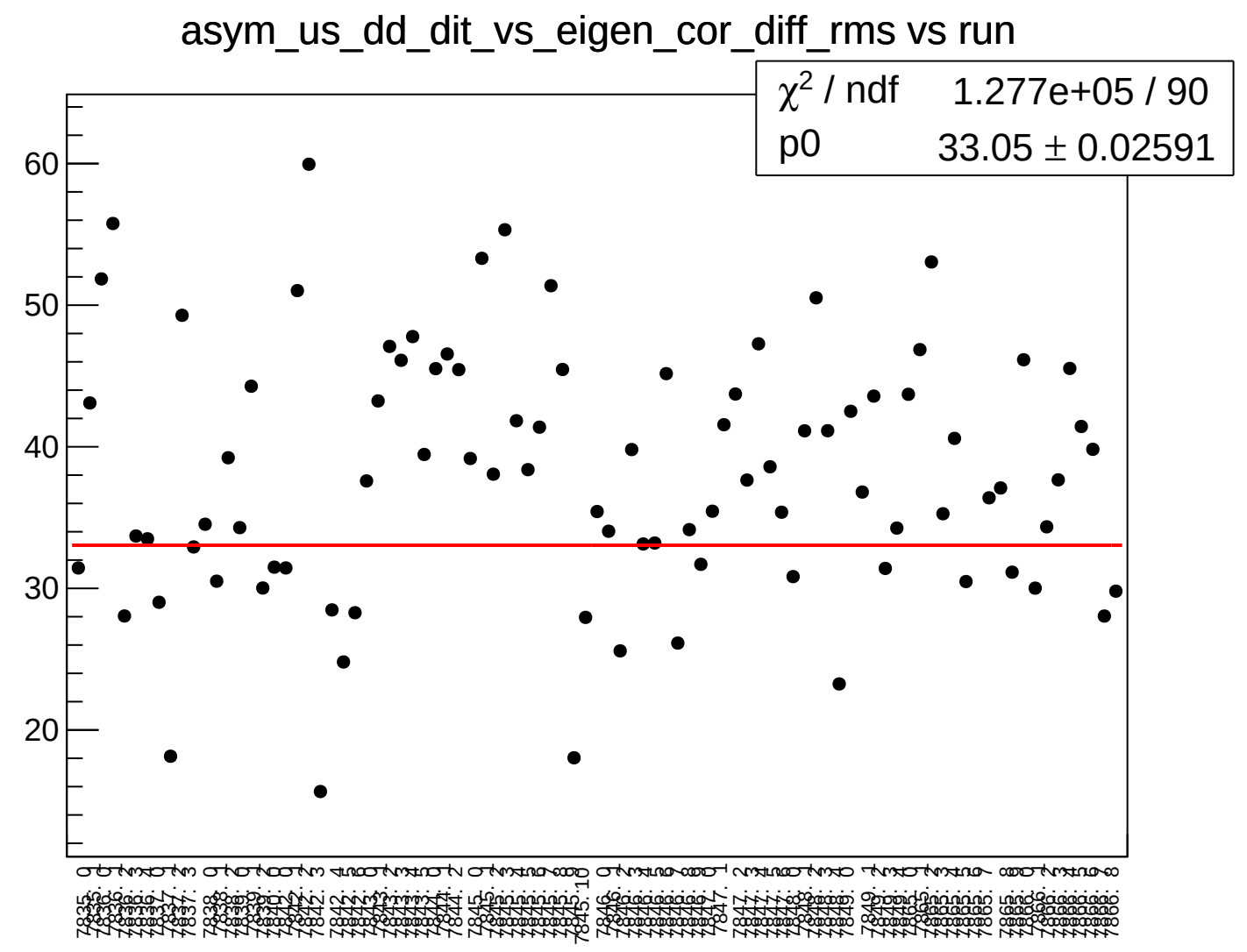

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.37 / 90
p0 0.04258 ± 0.03664
pull
Entries 91
Mean 678.6
Std Dev 0

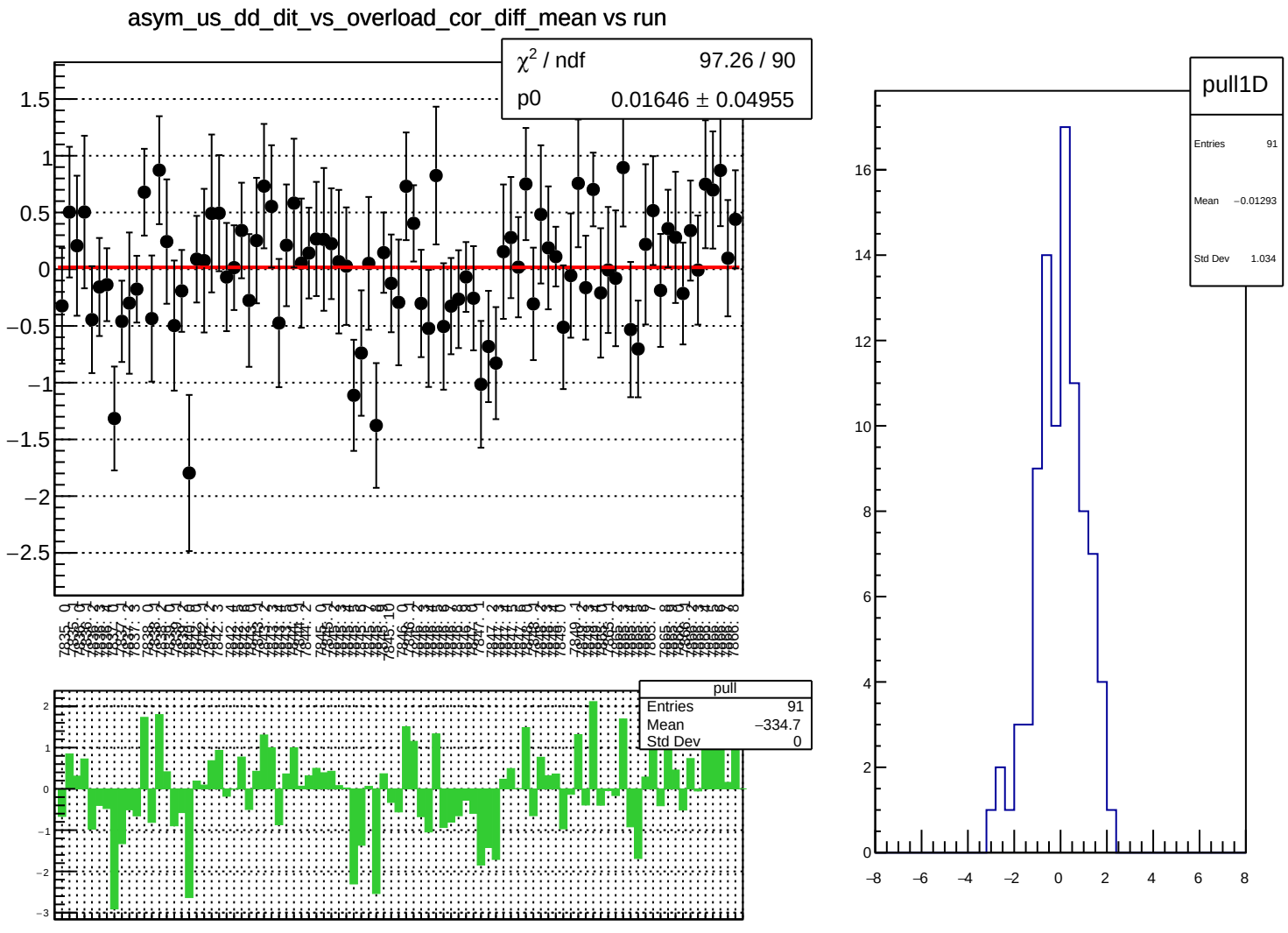

pull1D
Entries 91
Mean 0.007204
Std Dev 0.9798

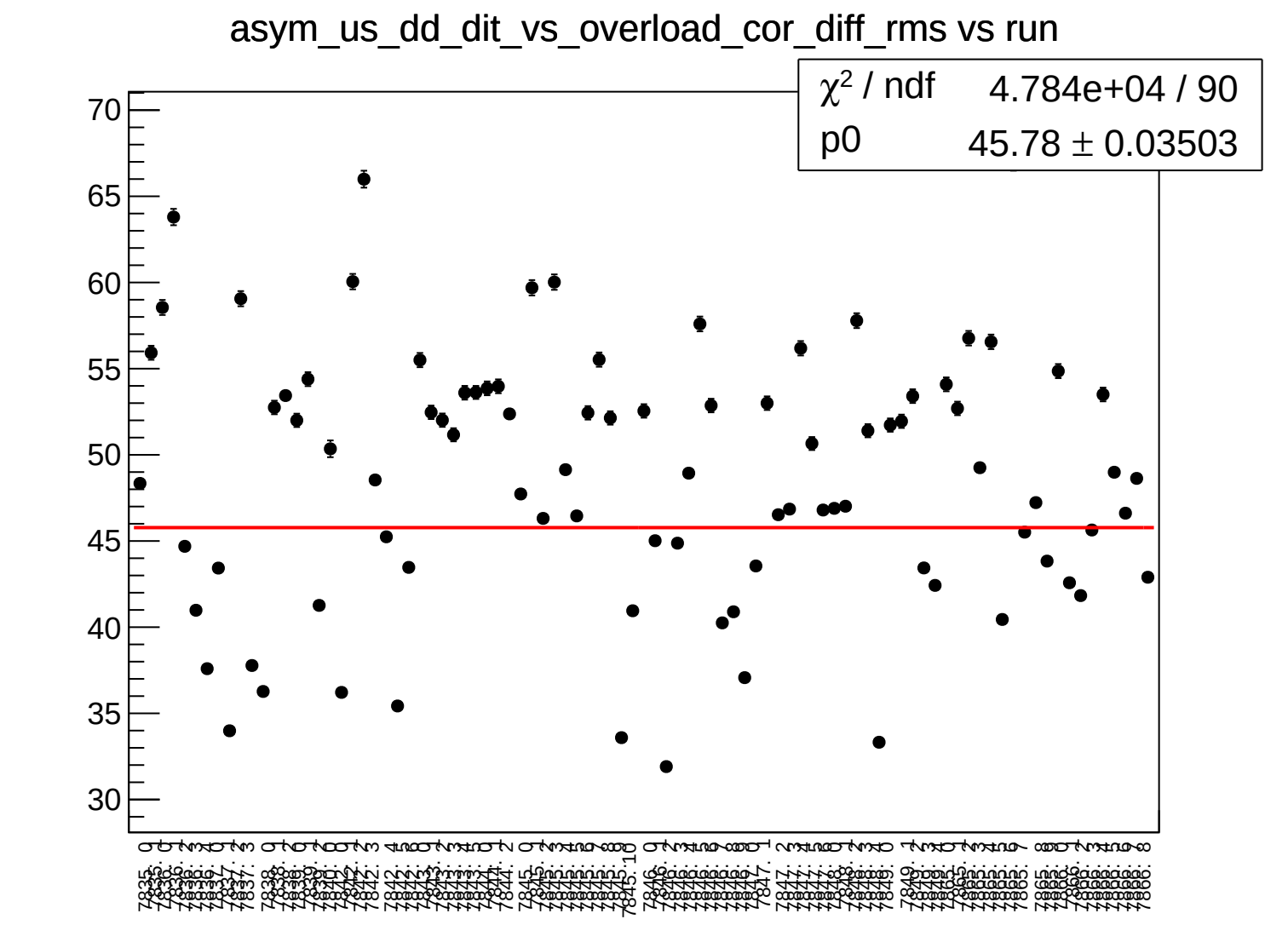

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 90
p0 33.05 ± 0.02591
60
50
40
30
20

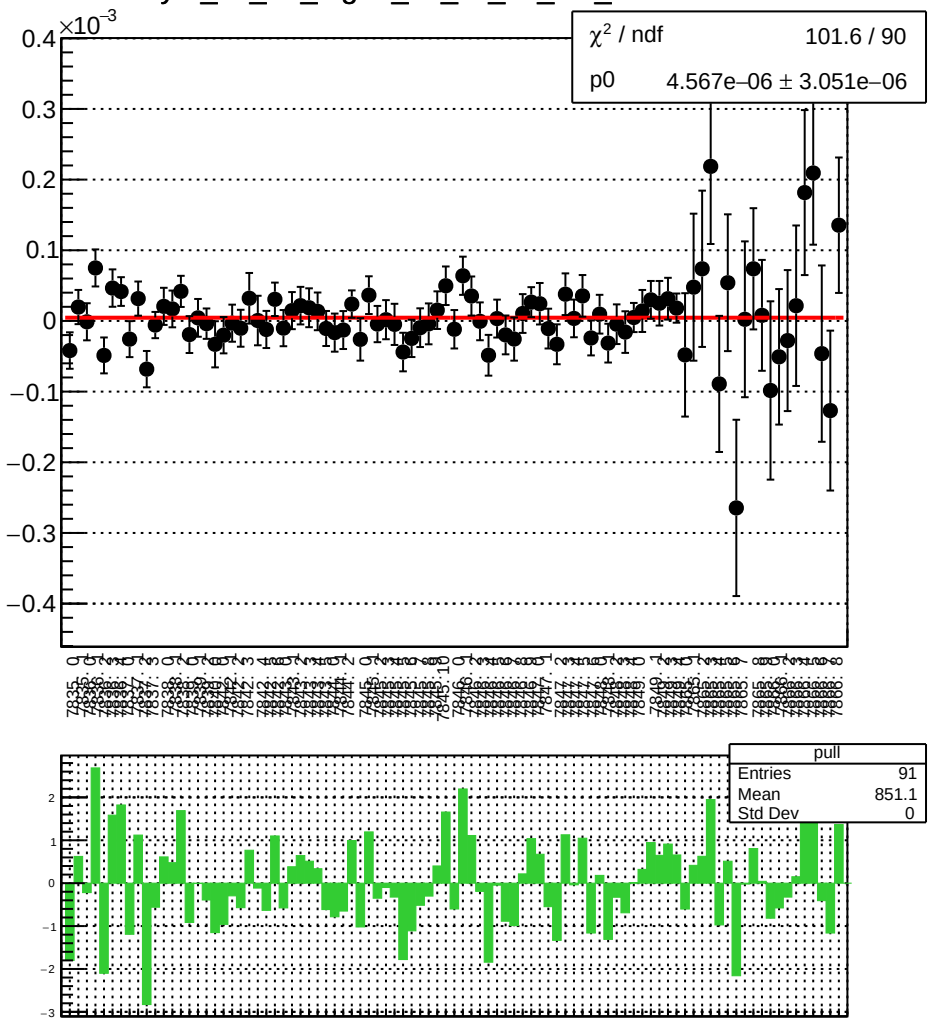

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.37 / 90
p0 0.04258 ± 0.03664
pull
Entries 91
Mean 678.6
Std Dev 0

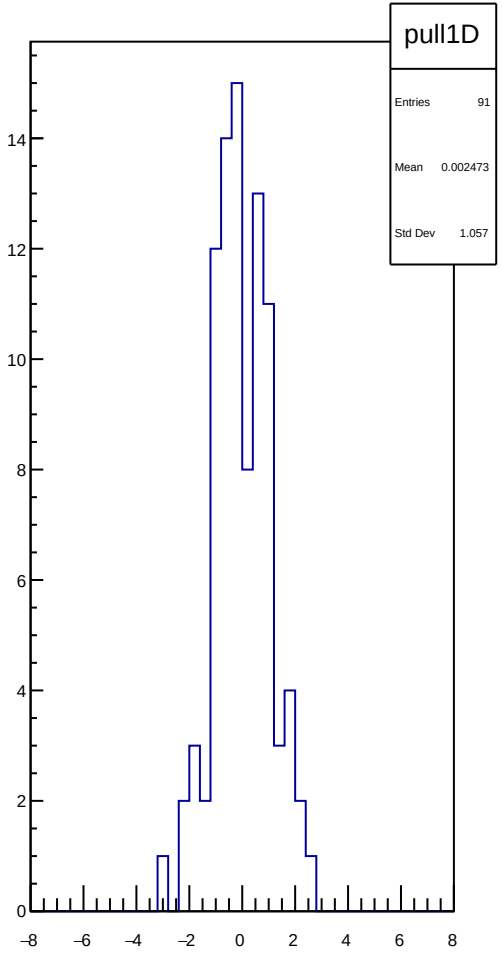

pull1D
Entries 91
Mean 0.007204
Std Dev 0.9798

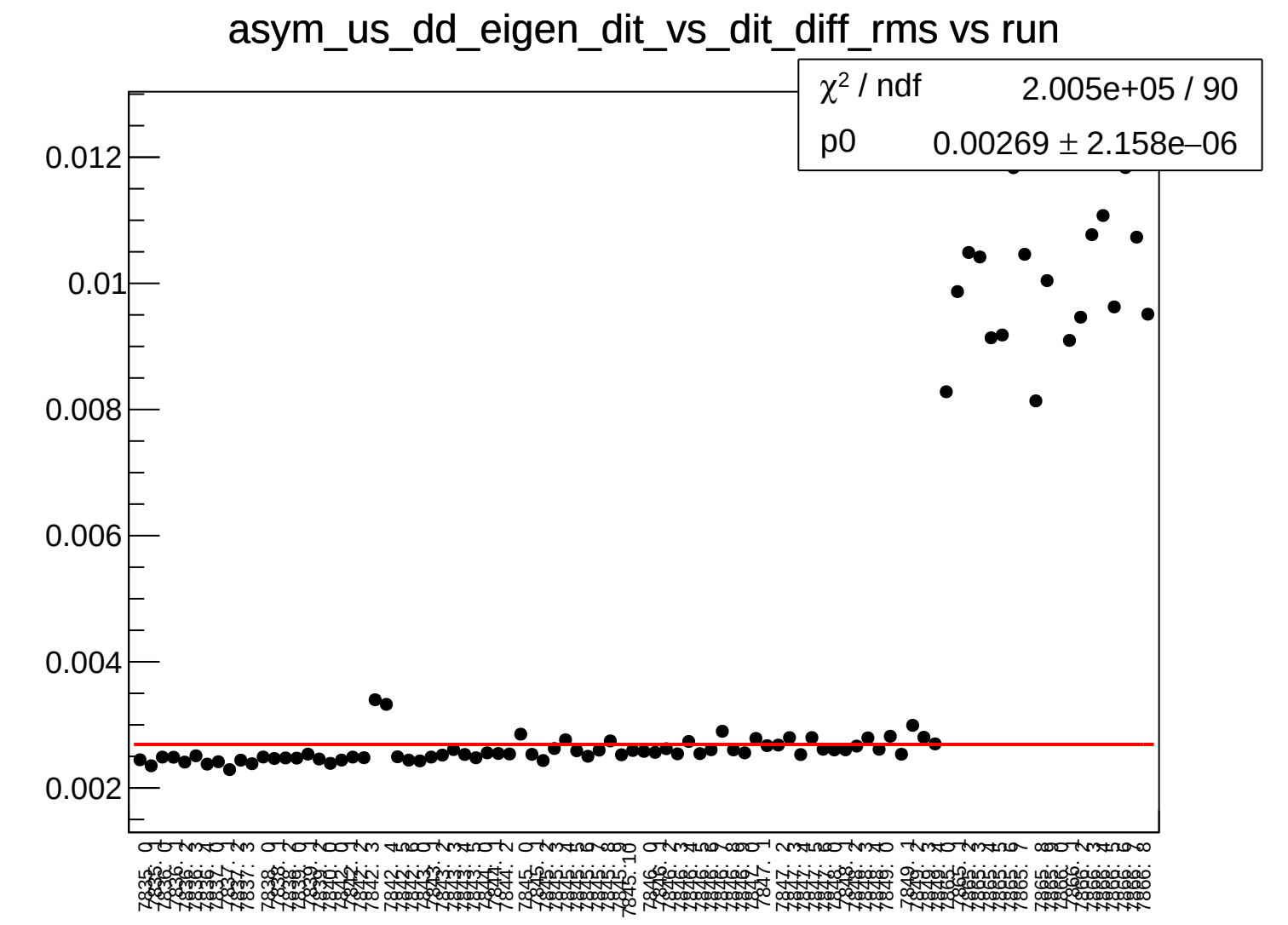

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.277e+05 / 90
p0 33.05 ± 0.02591
60
50
40
30
20

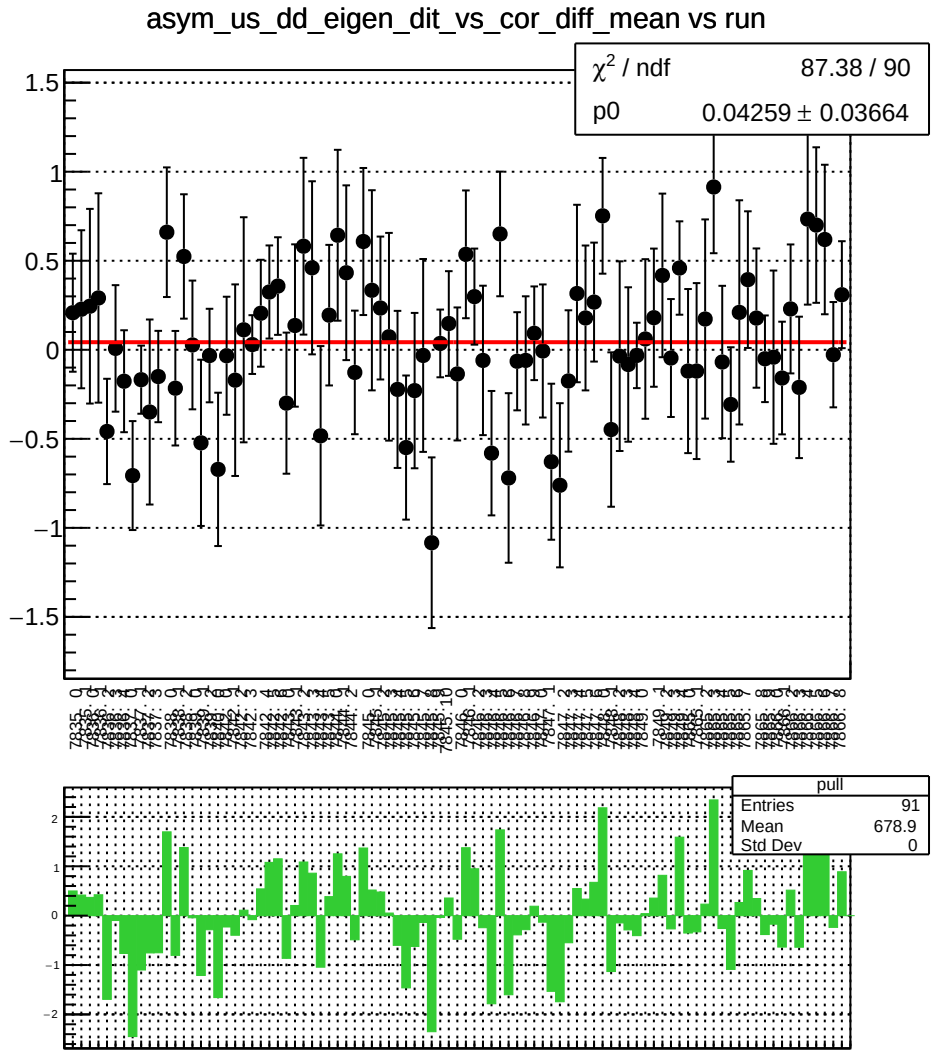

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.26 / 90
p0 0.01646 ± 0.04955
pull
Entries 91
Mean −334.7
Std Dev 0
pull1D
Entries 91
Mean −0.01293
Std Dev 1.034

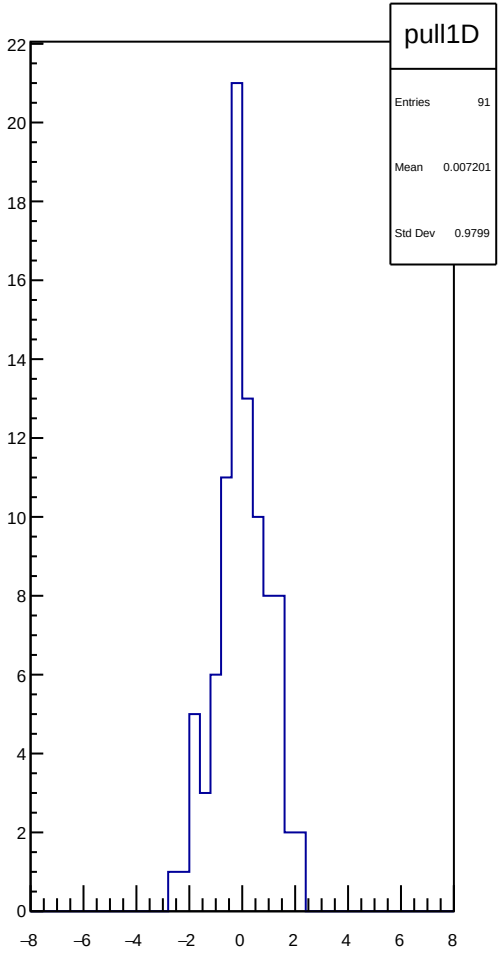

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.784e+04 / 90
p0 45.78 ± 0.03503
70
65
60
55
50
45
40
35
30

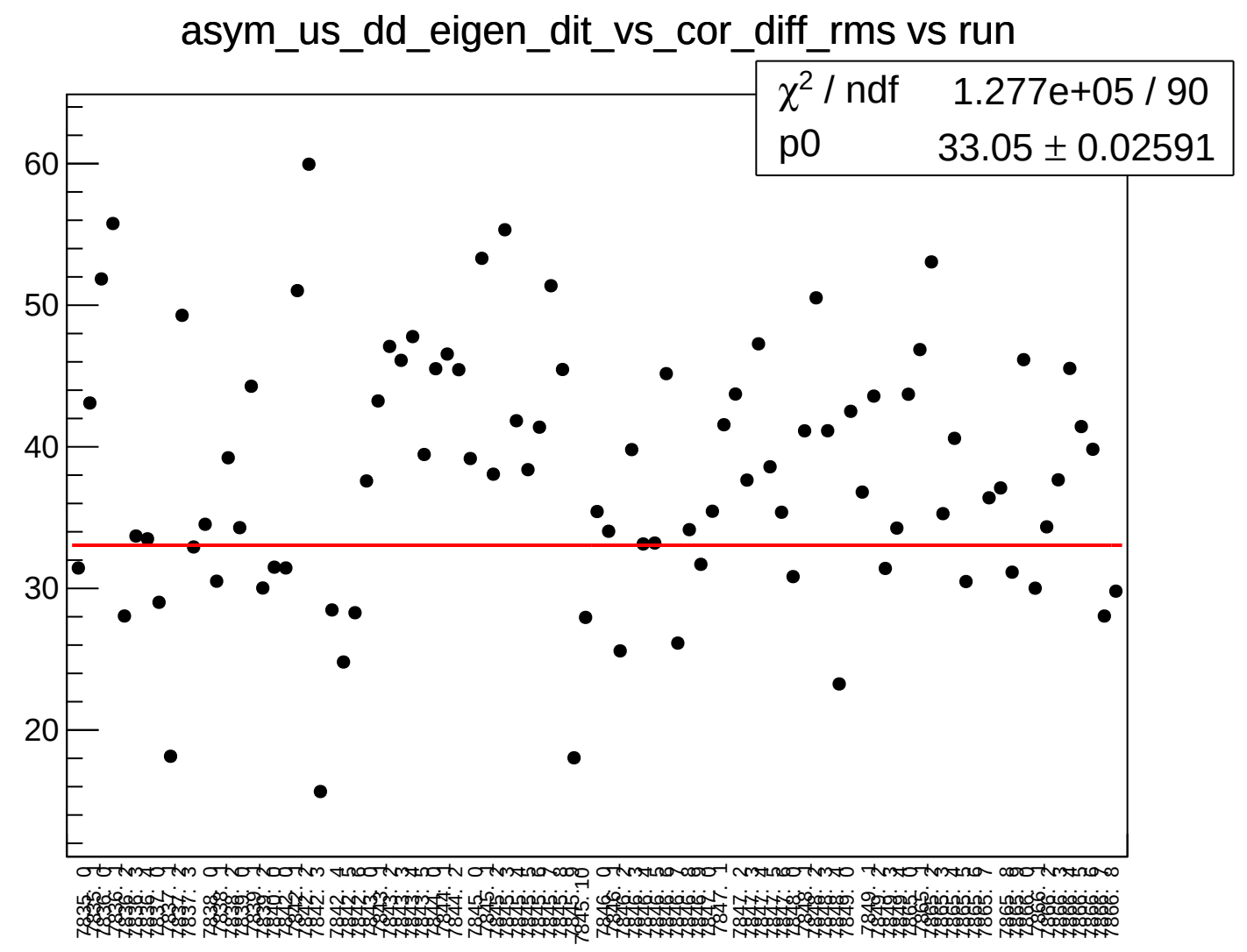

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 90
p0 4.567e−06 ± 3.051e−06
pull
Entries 91
Mean 851.1
Std Dev 0

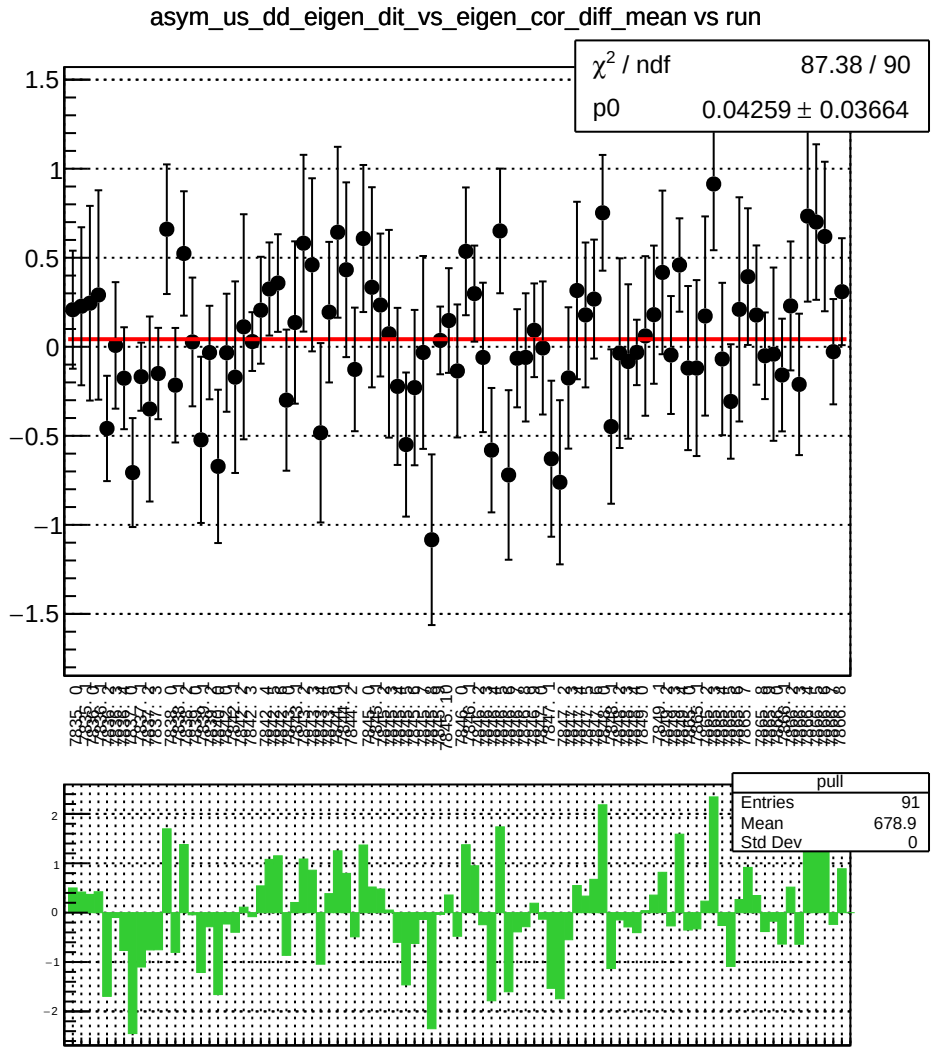

pull1D
Entries 91
Mean 0.002473
Std Dev 1.057

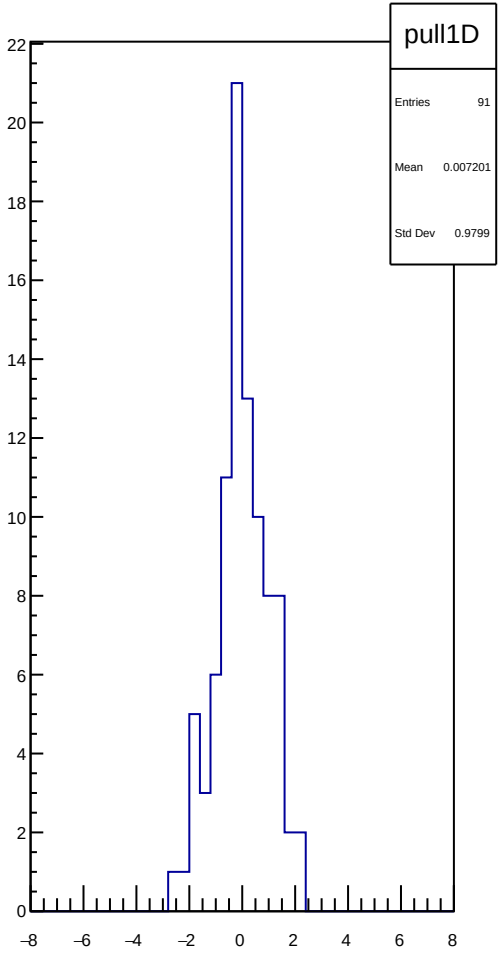

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.005e+05 / 90
p0 0.00269 ± 2.158e−06
0.012
0.01
0.008
0.006
0.004
0.002

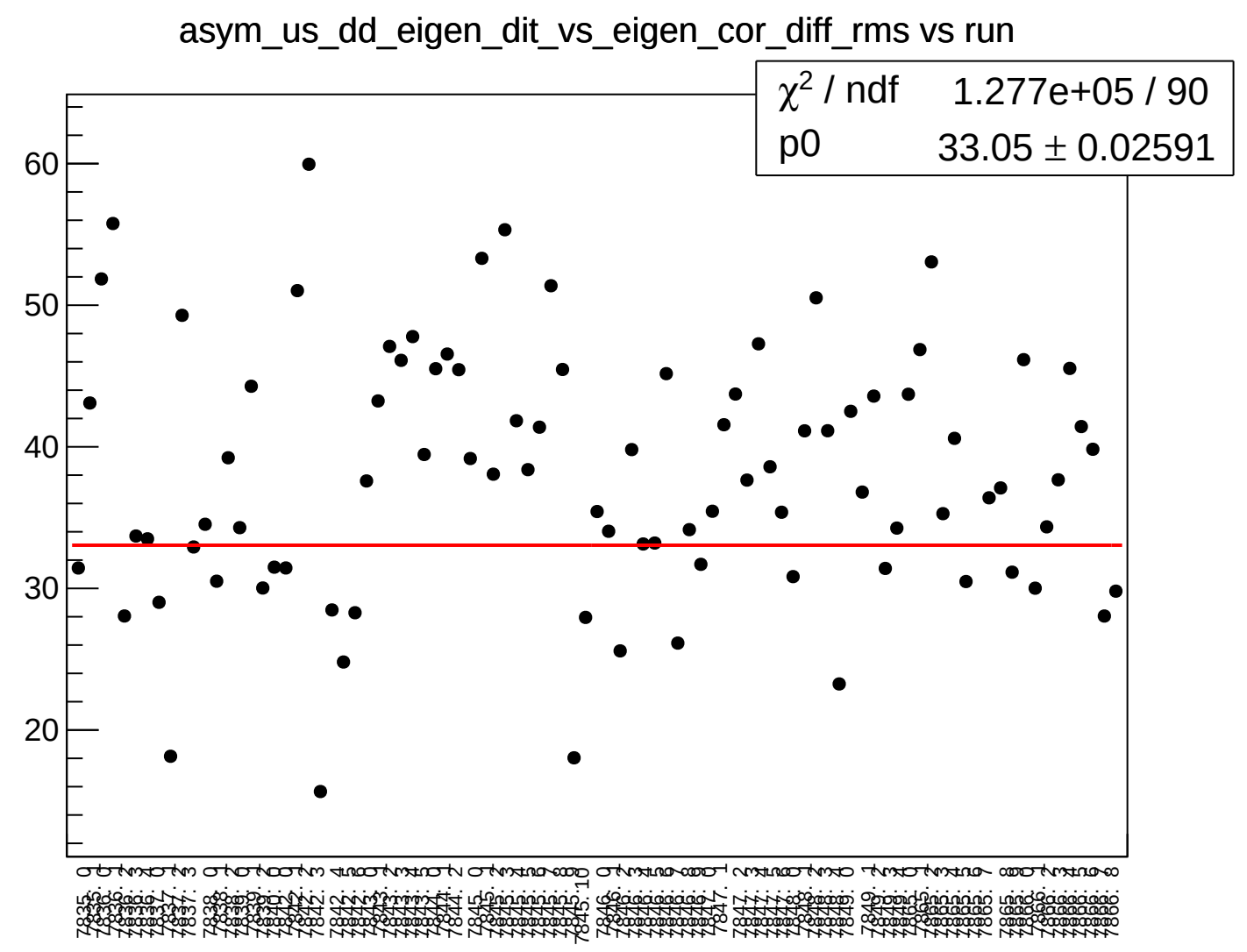

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.38 / 90
p0 0.04259 ± 0.03664
pull
Entries 91
Mean 678.9
Std Dev 0

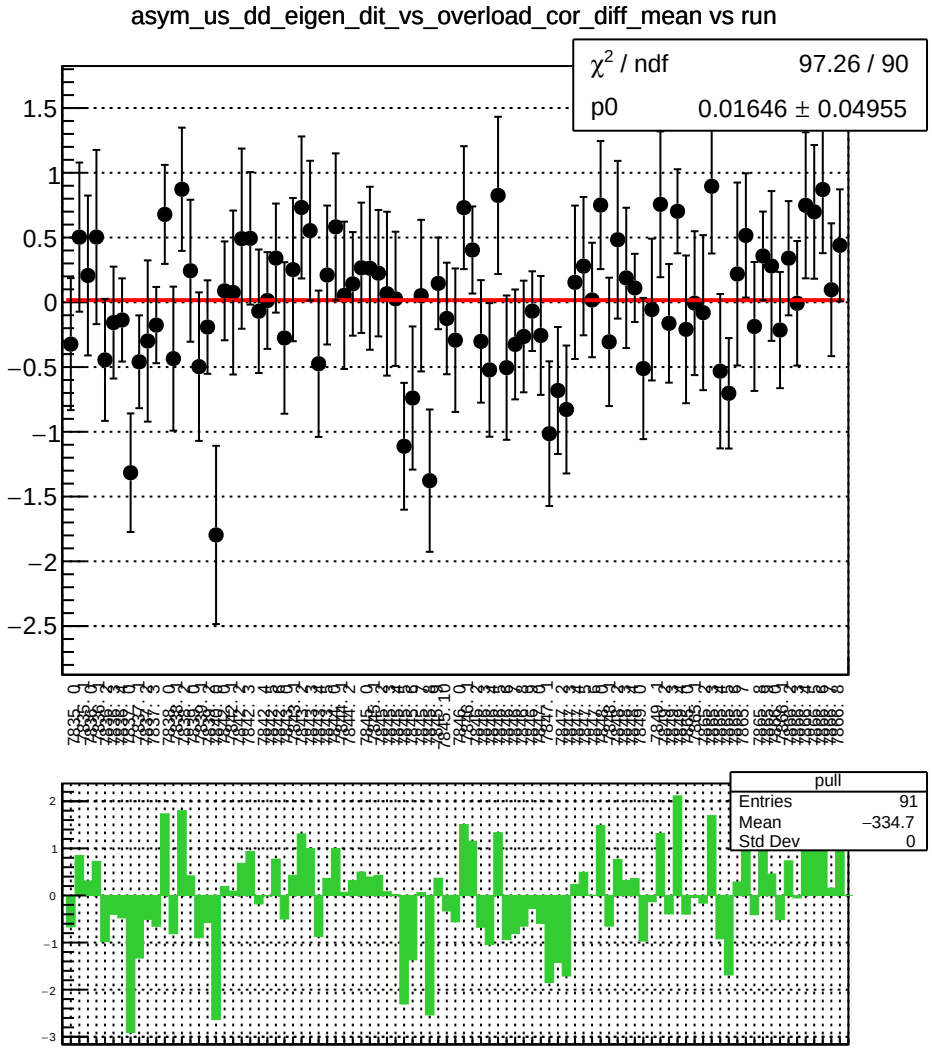

pull1D
Entries 91
Mean 0.007201
Std Dev 0.9799

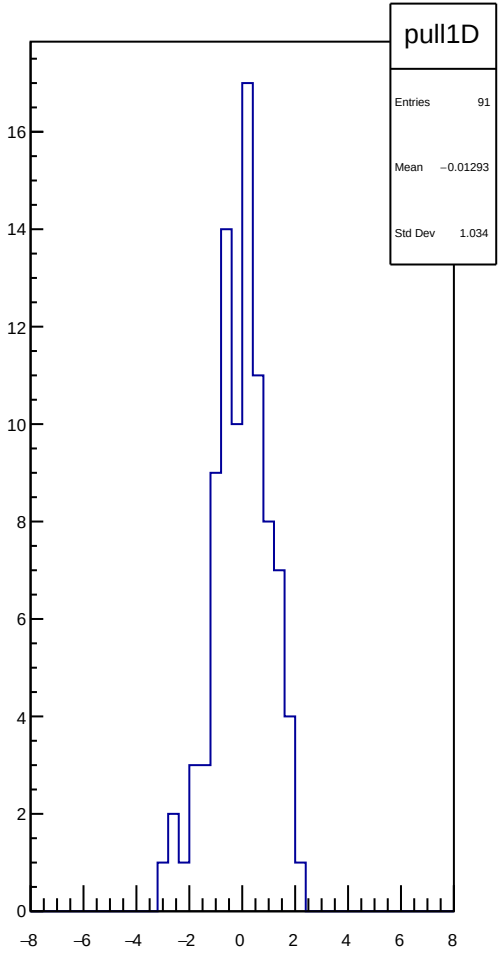

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 90
p0 33.05 ± 0.02591
60
50
40
30
20

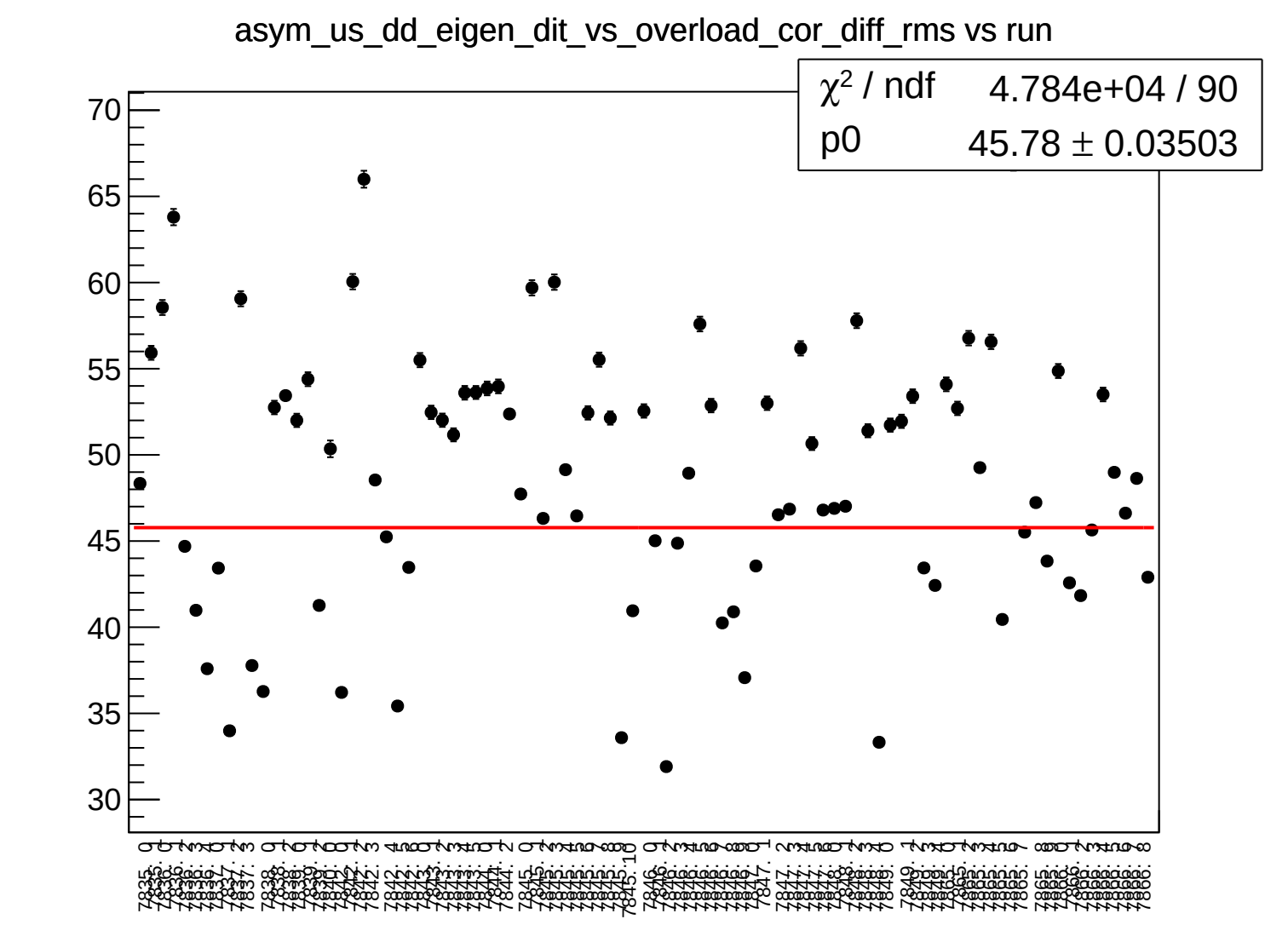

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.38 / 90
p0 0.04259 ± 0.03664
pull
Entries 91
Mean 678.9
Std Dev 0

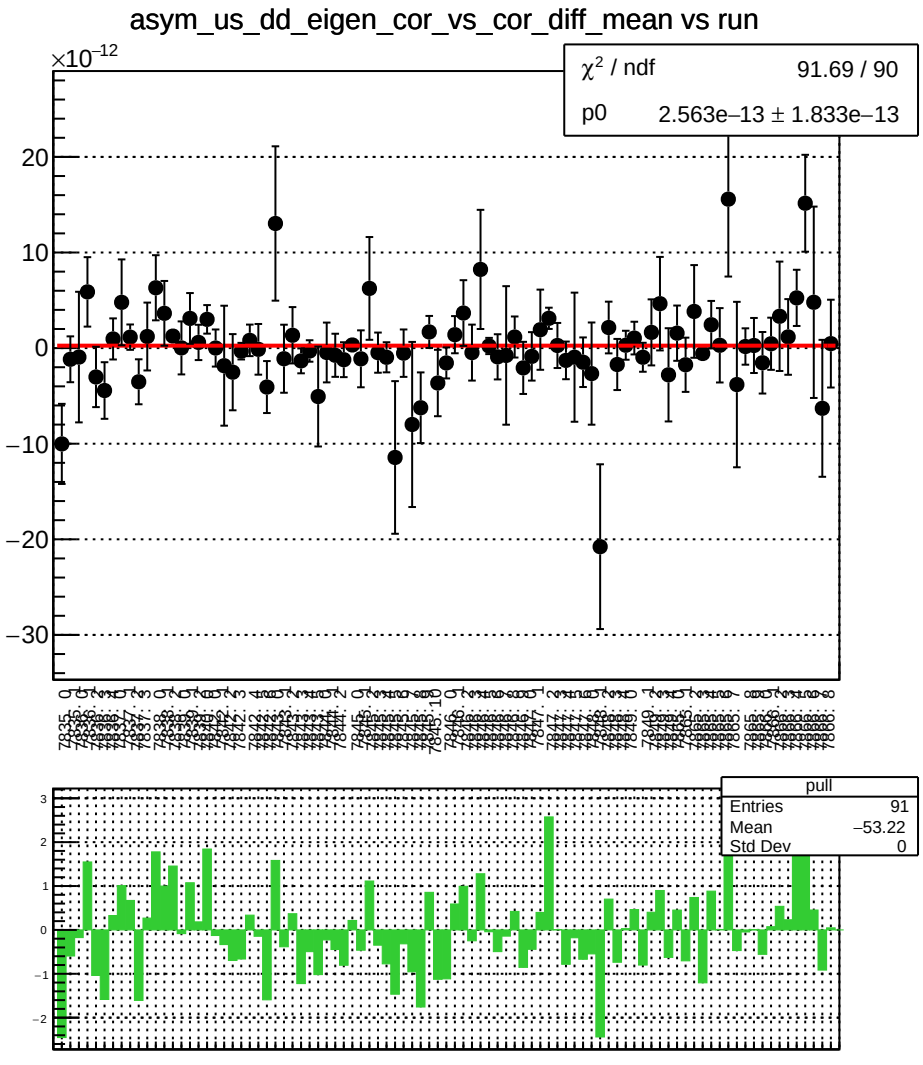

pull1D
Entries 91
Mean 0.007201
Std Dev 0.9799

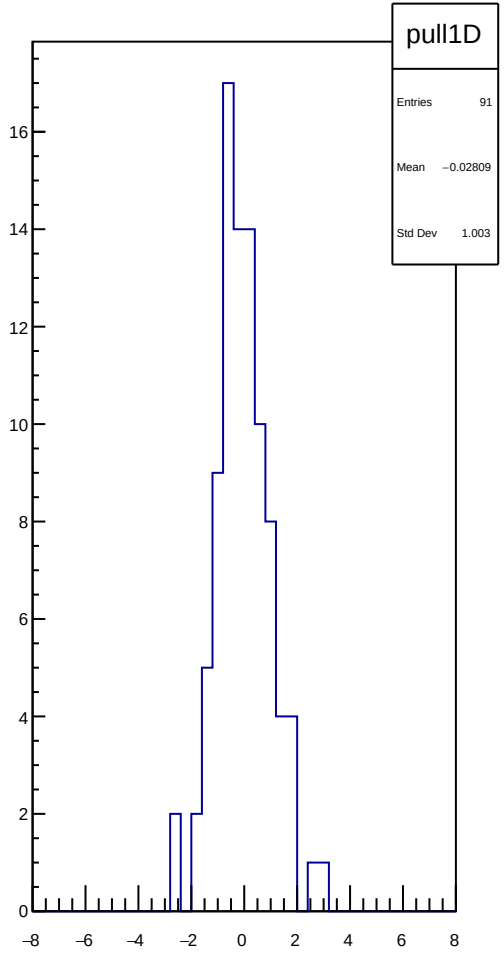

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.277e+05 / 90
p0 33.05 ± 0.02591
60
50
40
30
20

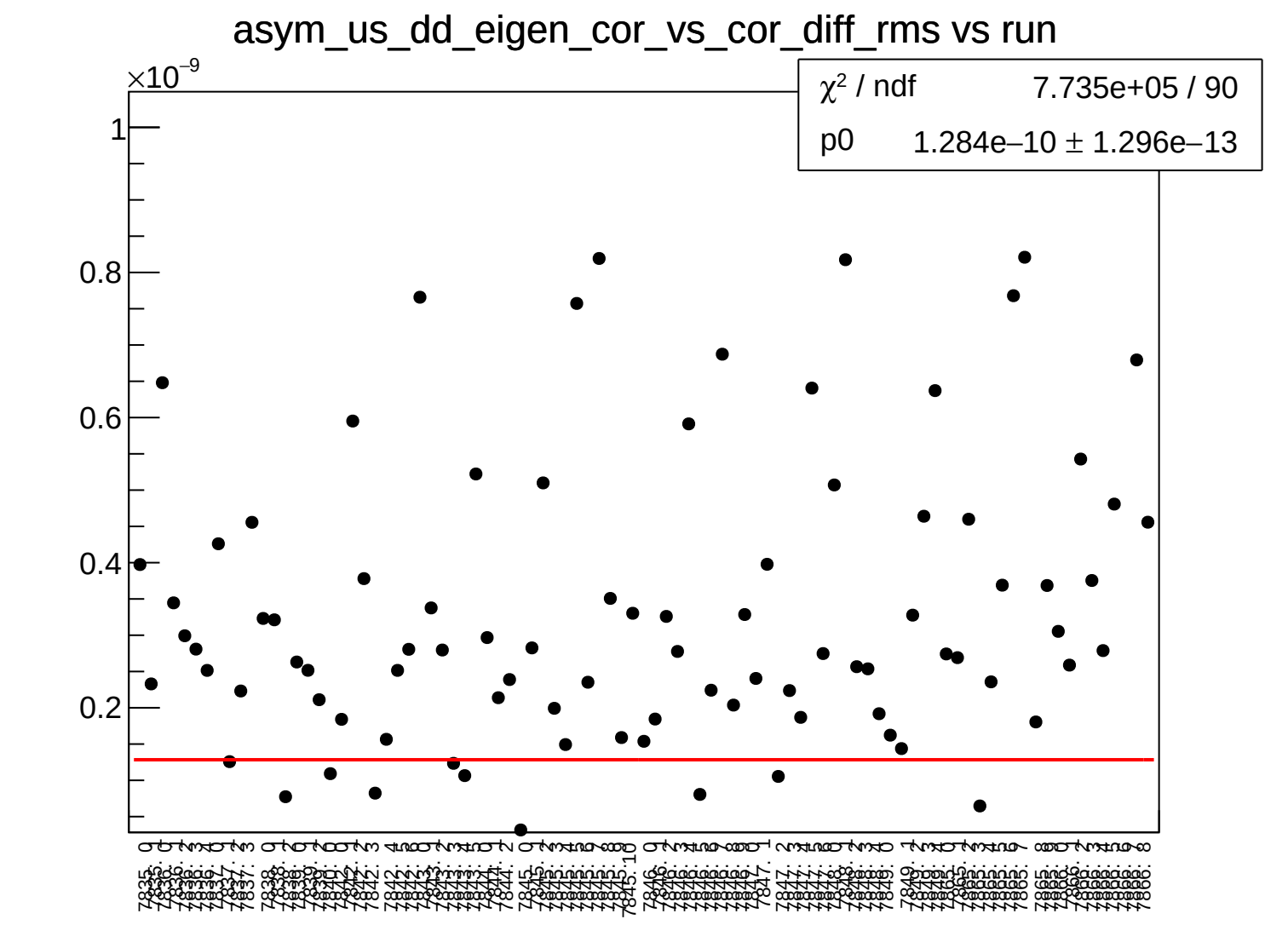

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.26 / 90
p0 0.01646 ± 0.04955
pull
Entries 91
Mean −334.7
Std Dev 0

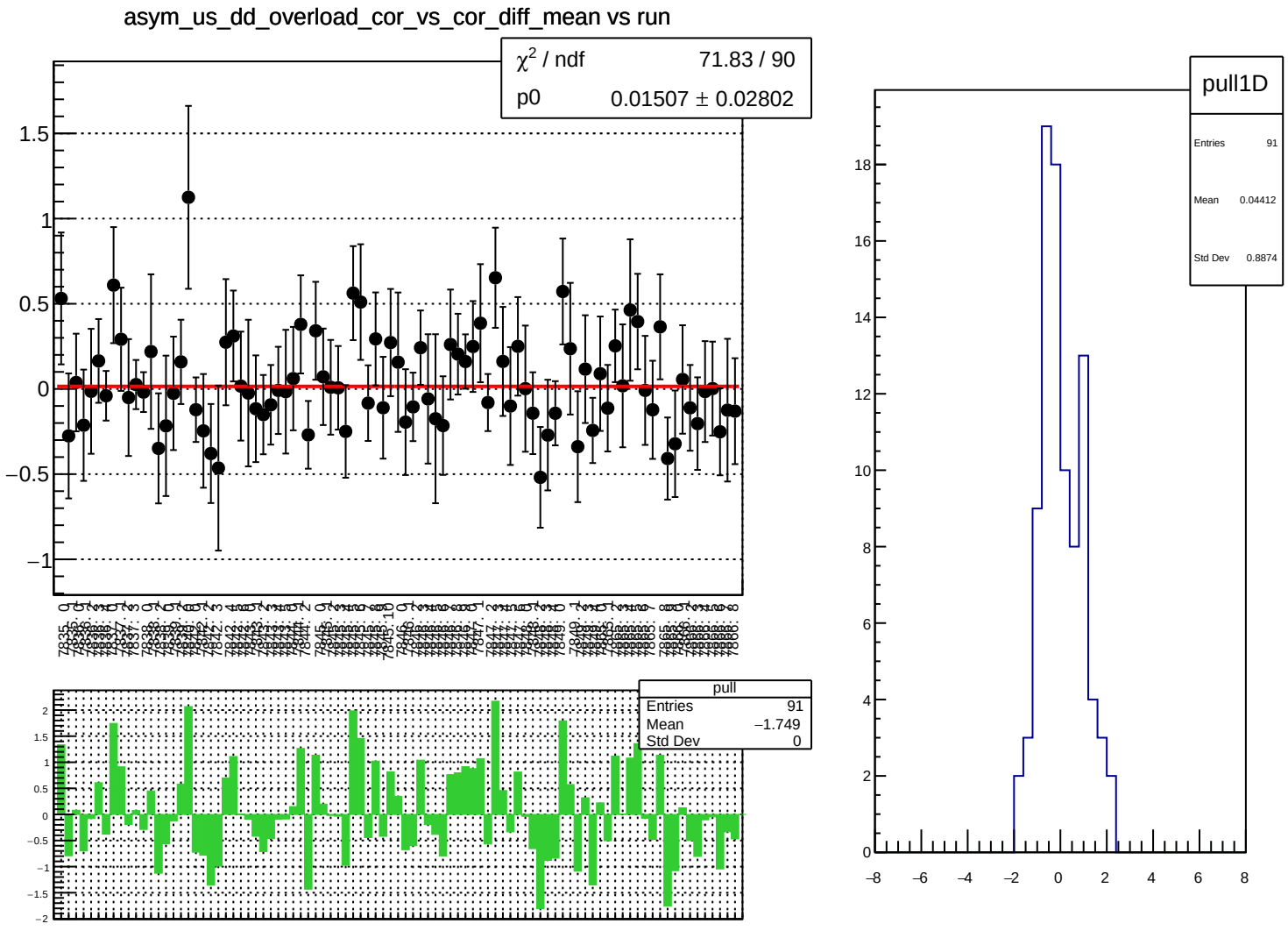

pull1D
Entries 91
Mean −0.01293
Std Dev 1.034

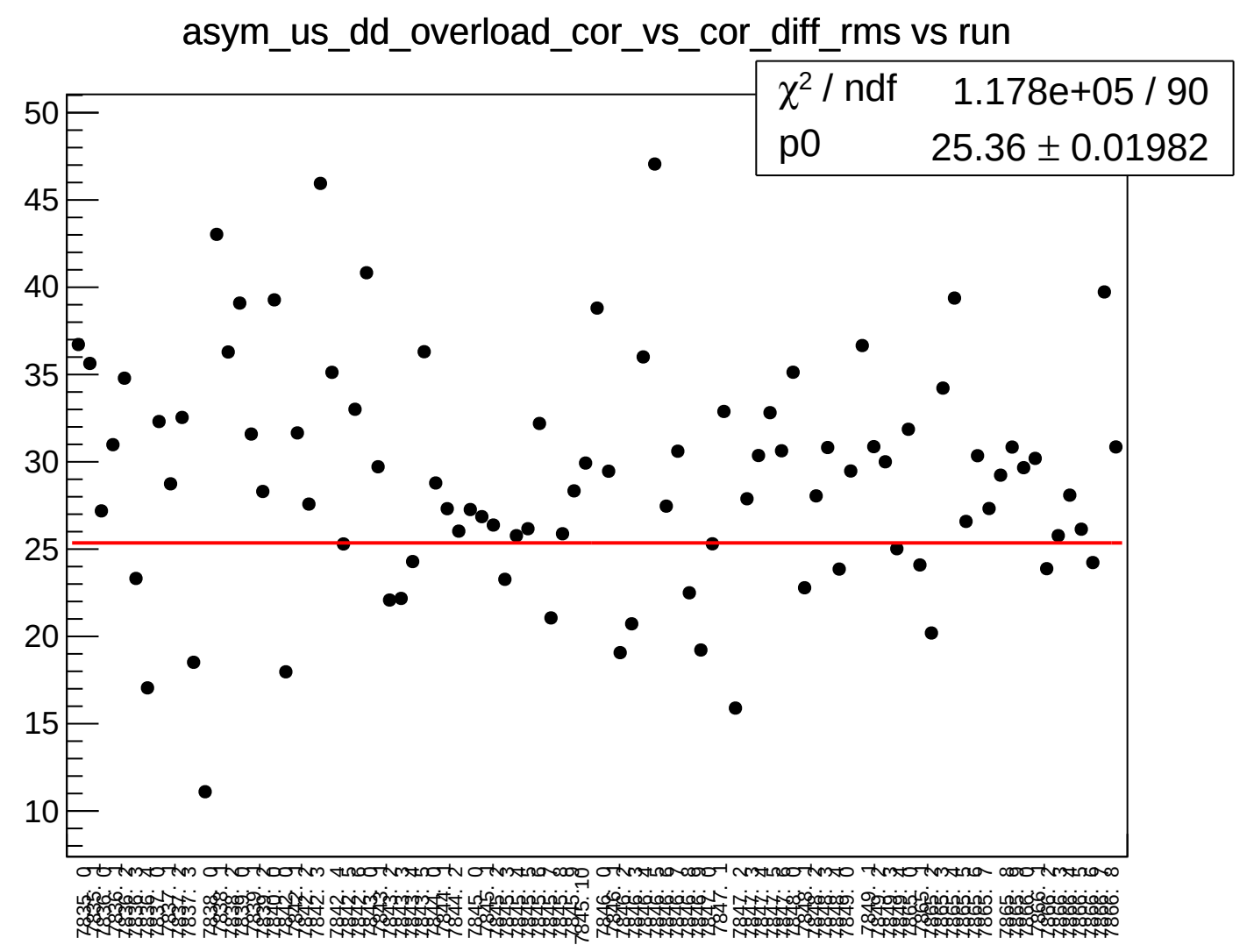

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.784e+04 / 90
p0 45.78 ± 0.03503
70
65
60
55
50
45
40
35
30

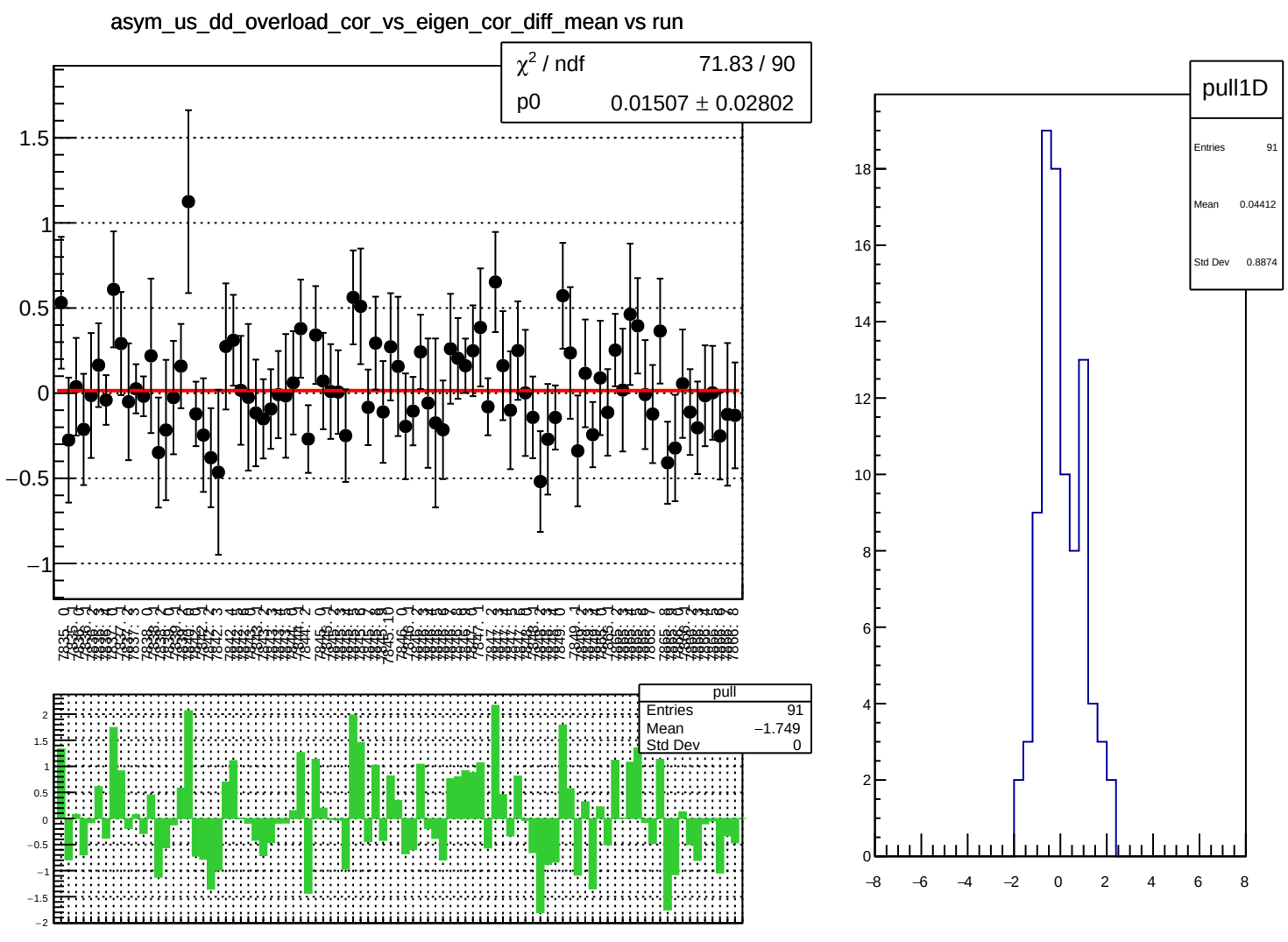

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.69 / 90
p0 2.563e−13 ± 1.833e−13
20
10
0
−10
−20
−30
pull
Entries 91
Mean −53.22
Std Dev 0
3
2
1
0
−1
−2

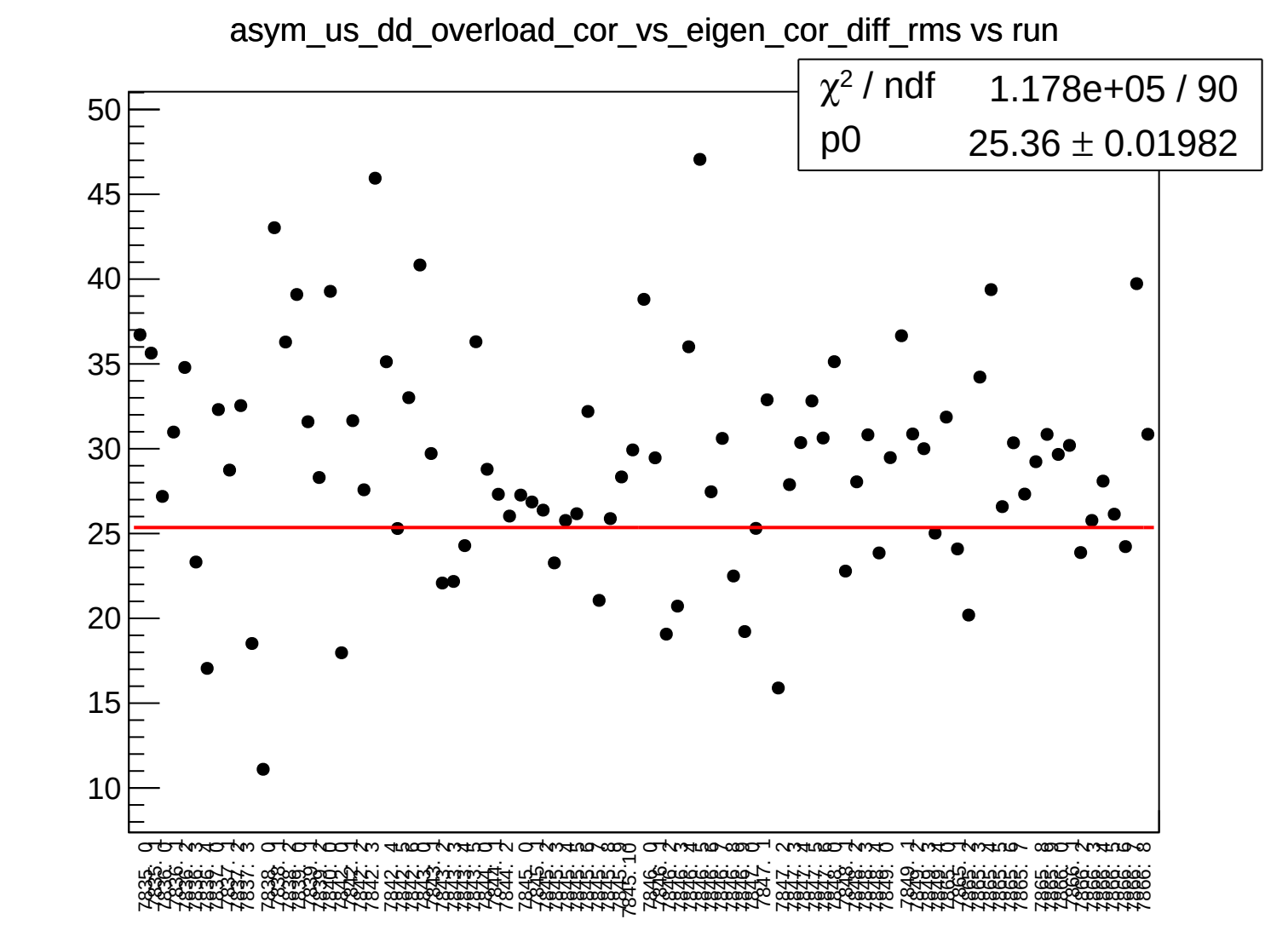

pull1D
Entries 91
Mean −0.02809
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

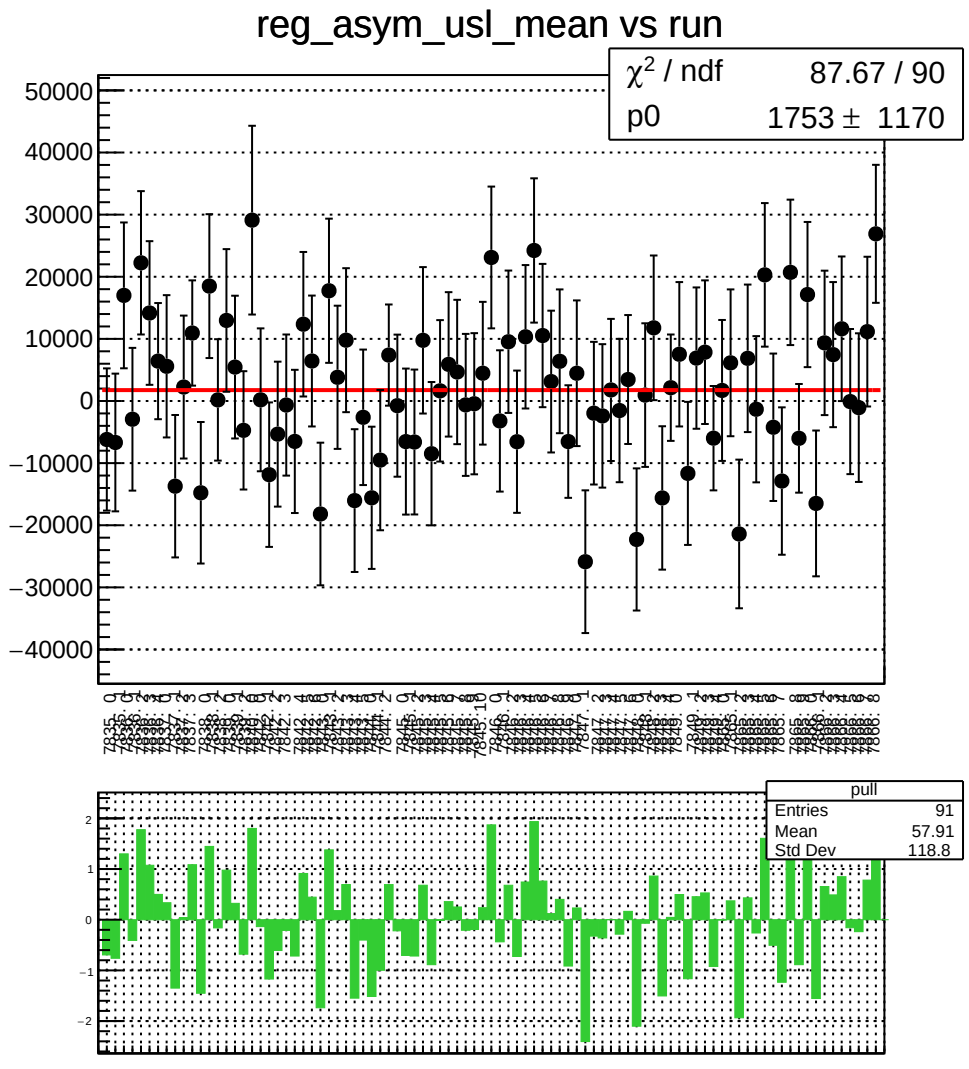

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.735e+05 / 90
p0 1.284e−10 ± 1.296e−13
1
0.8
0.6
0.4
0.2

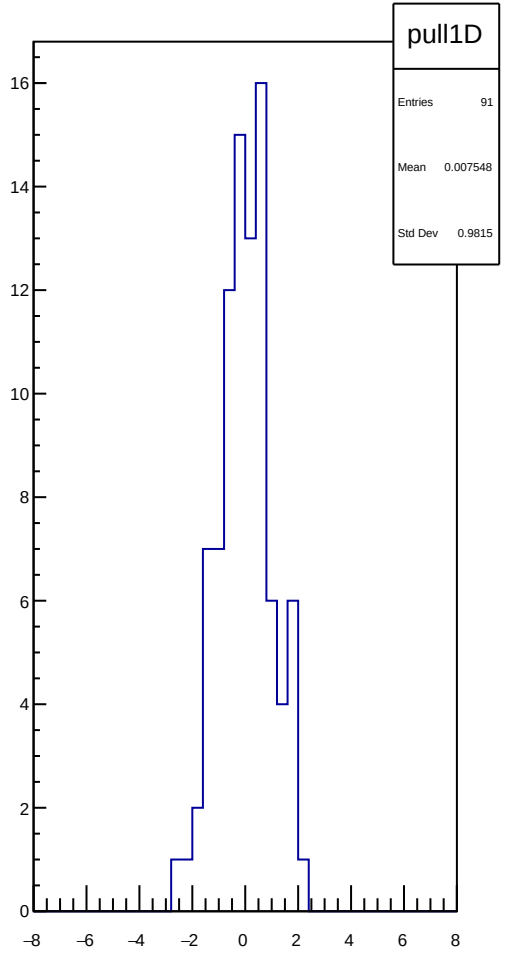

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 71.83 / 90
p0 0.01507 ± 0.02802
pull
Entries 91
Mean −1.749
Std Dev 0
pull1D
Entries 91
Mean 0.04412
Std Dev 0.8874

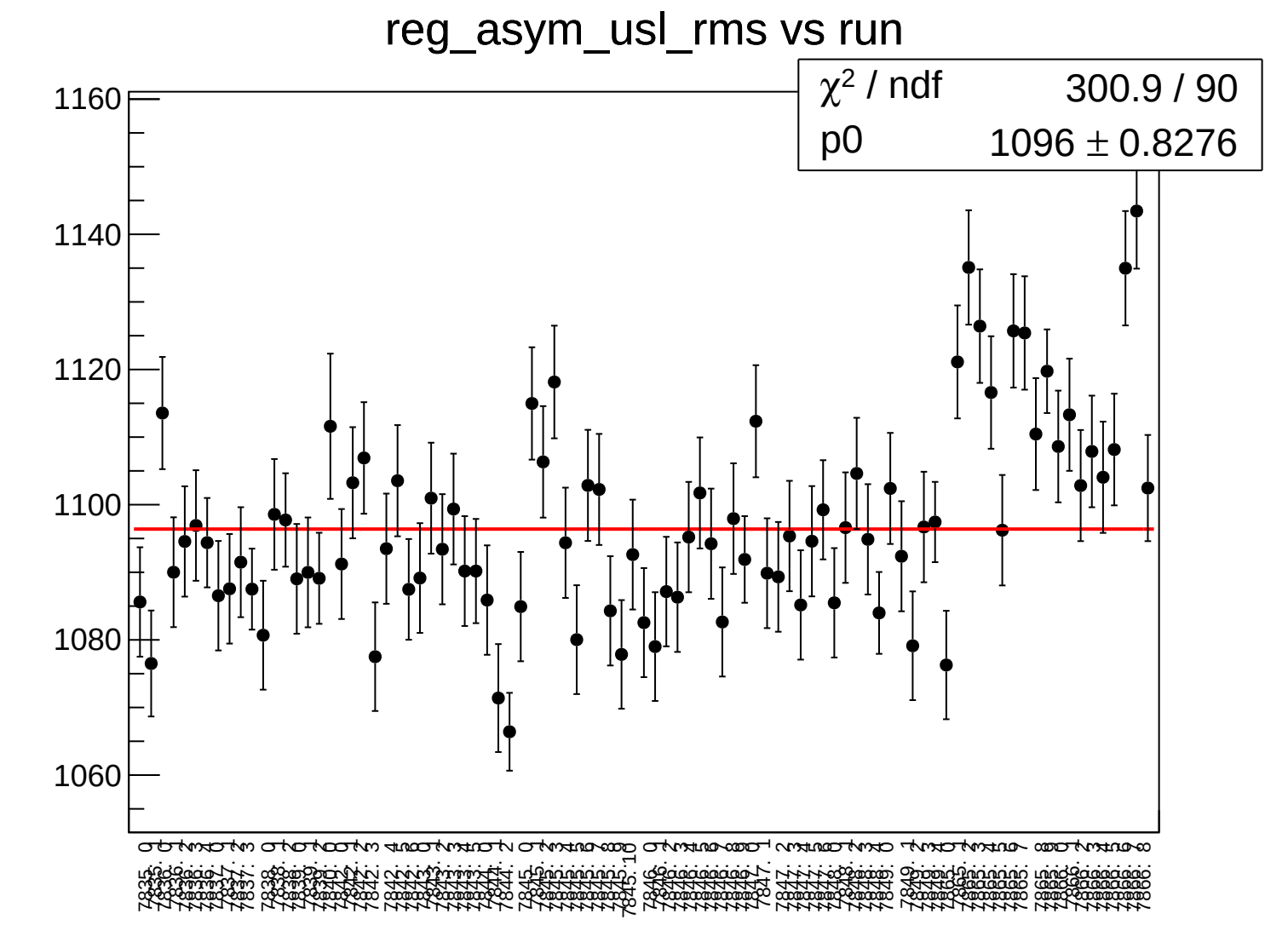

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 90
p0 25.36 ± 0.01982
50
45
40
35
30
25
20
15
10

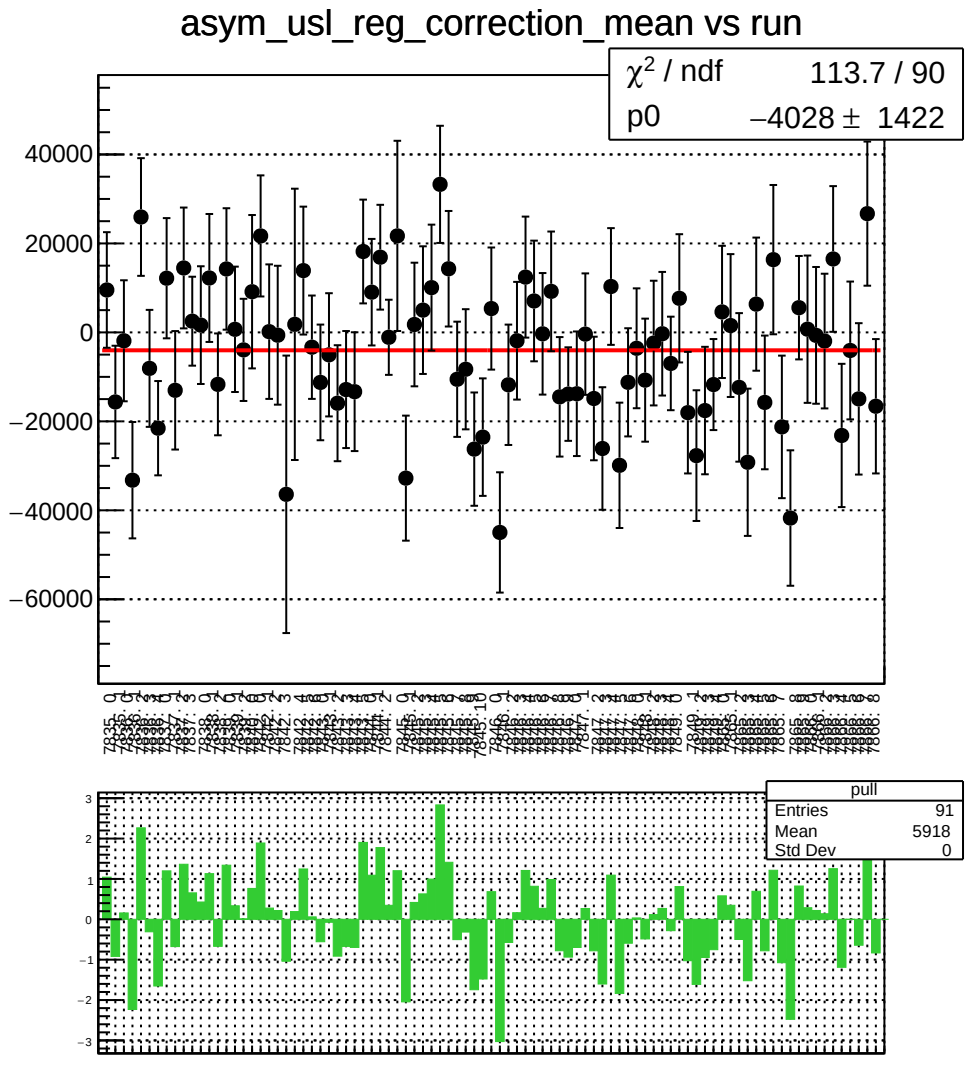

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.83 / 90
p0 0.01507 ± 0.02802
pull
Entries 91
Mean −1.749
Std Dev 0
pull1D
Entries 91
Mean 0.04412
Std Dev 0.8874

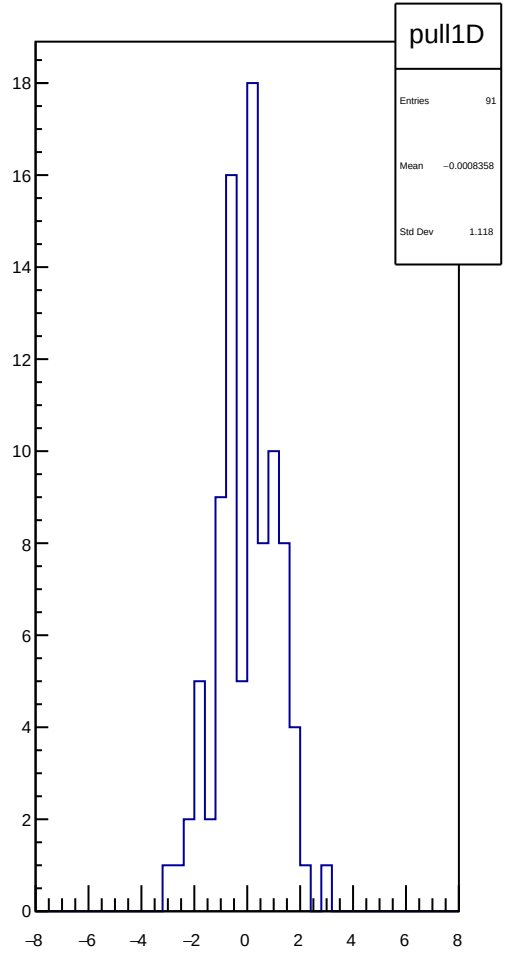

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 90
p0 25.36 ± 0.01982
50
45
40
35
30
25
20
15
10

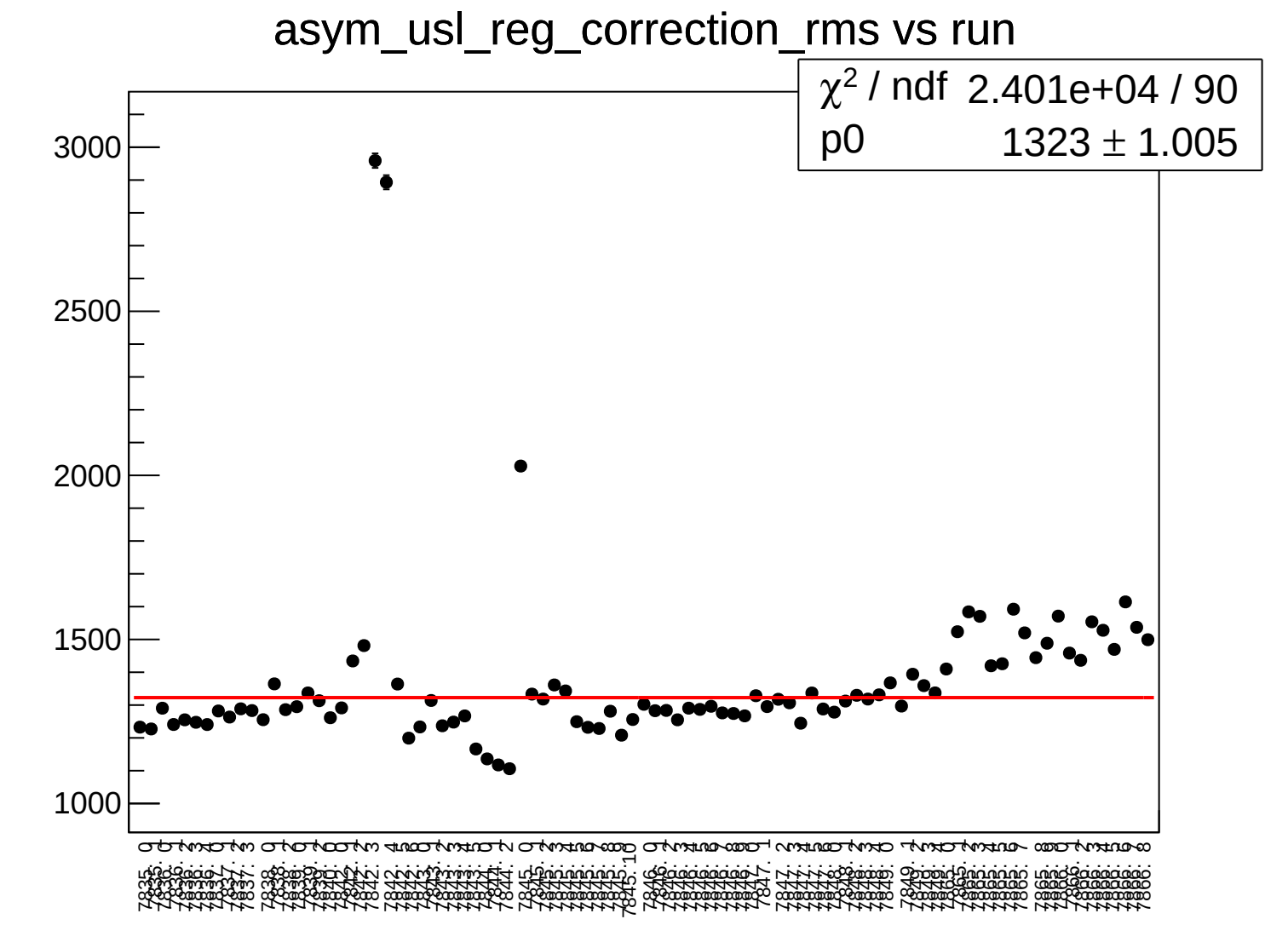

reg_asym_usl_mean vs run
χ² / ndf 87.67 / 90
p0 1753 ± 1170
pull
Entries 91
Mean 57.91
Std Dev 118.8

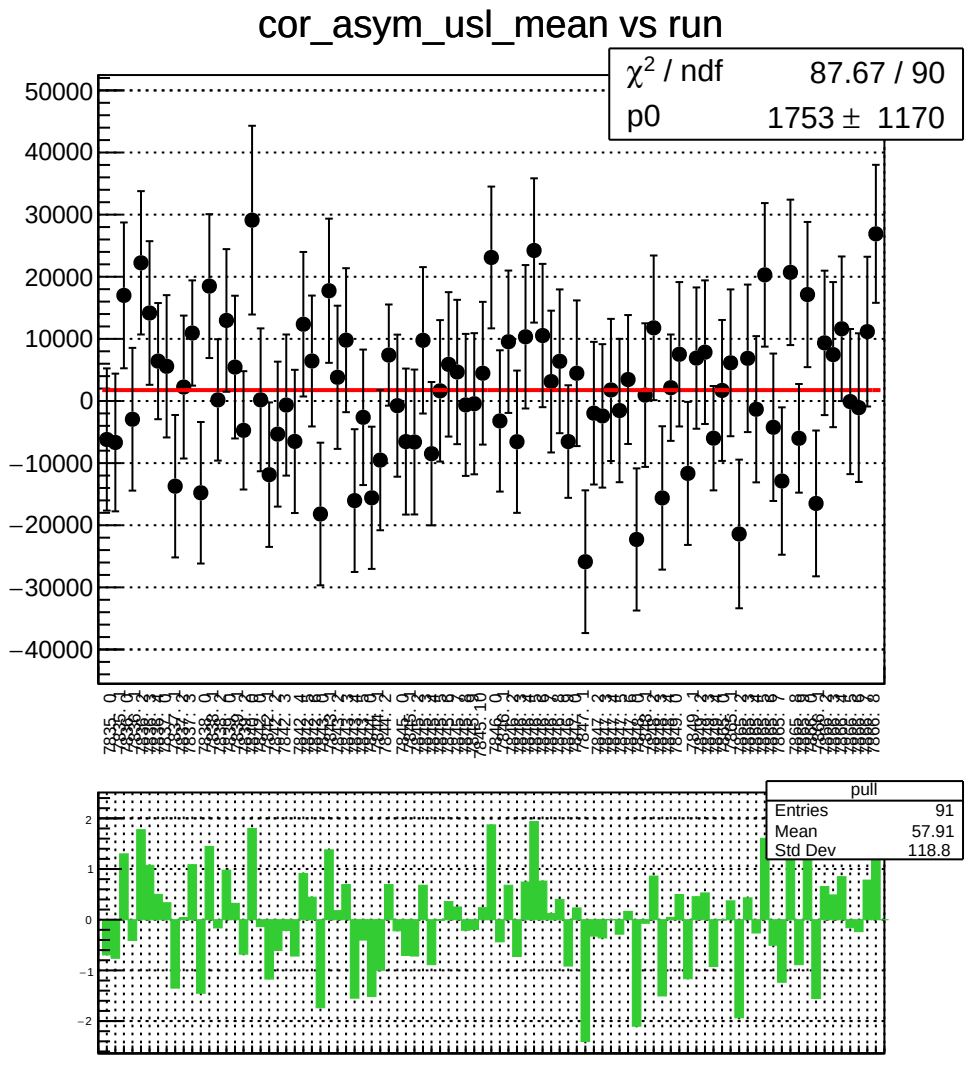

pull1D
Entries 91
Mean 0.007548
Std Dev 0.9815

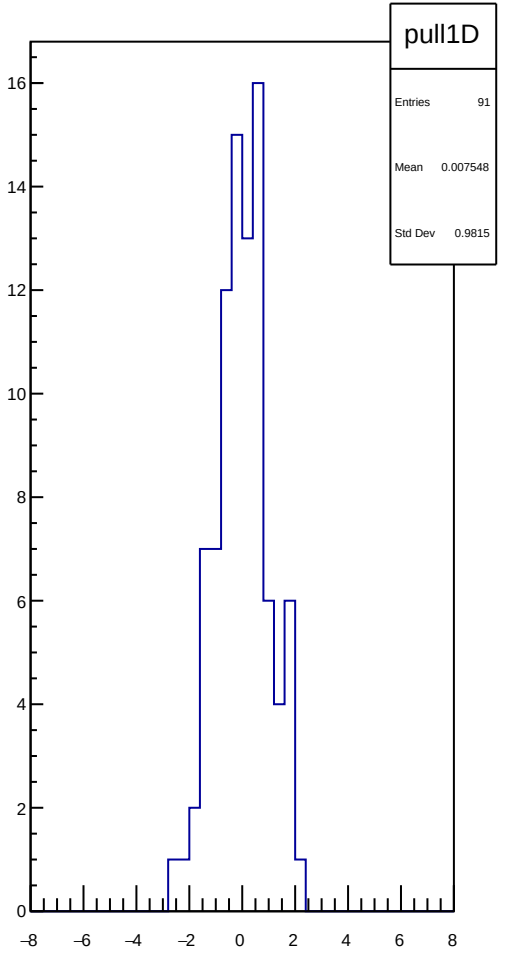

reg_asym_usl_rms vs run
χ^2 / ndf 300.9 / 90
p0 1096 ± 0.8276
1160
1140
1120
1100
1080
1060

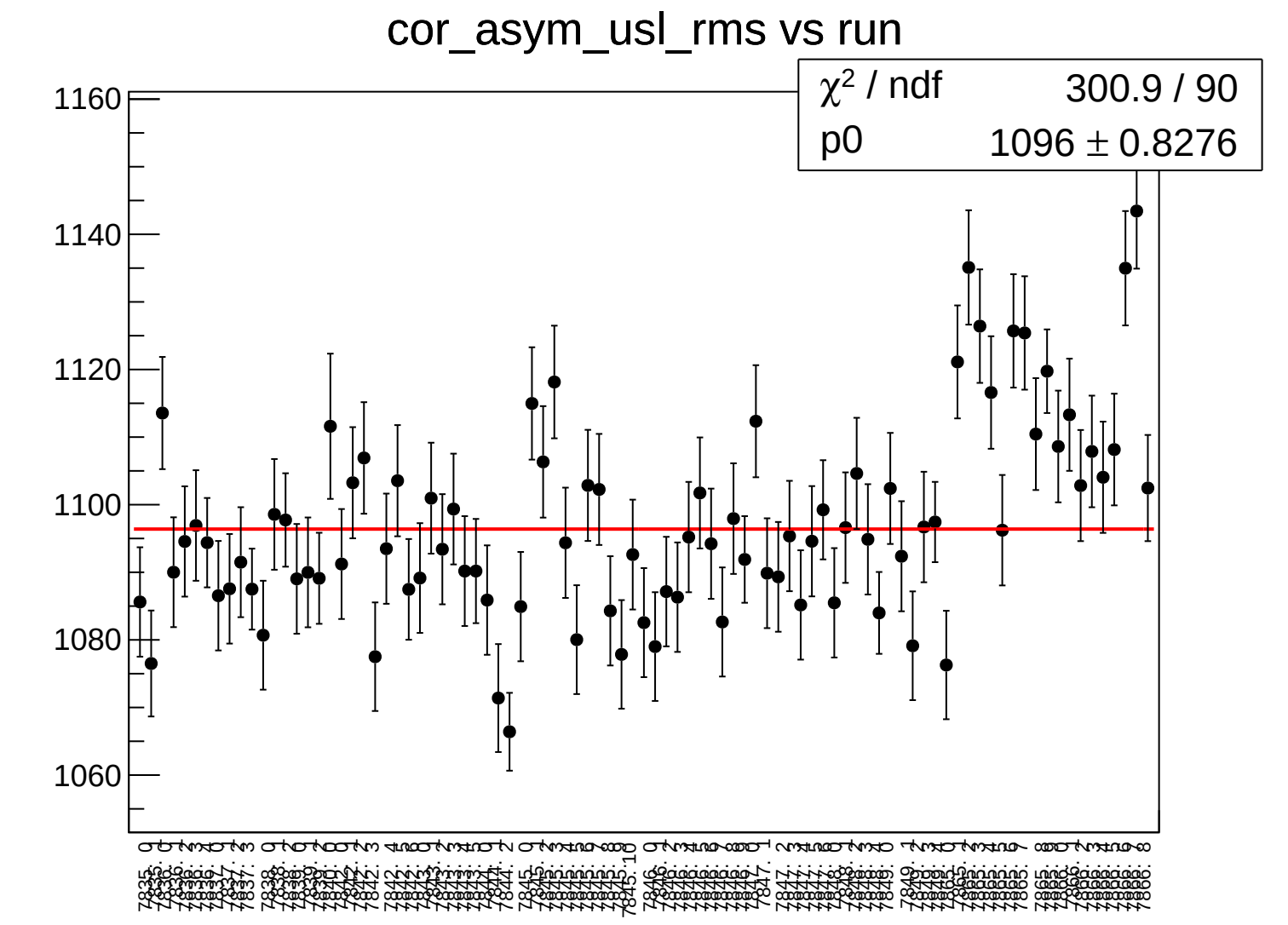

asym_usl_reg_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −4028 ± 1422
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 5918
Std Dev 0
3
2
1
0
−1
−2
−3

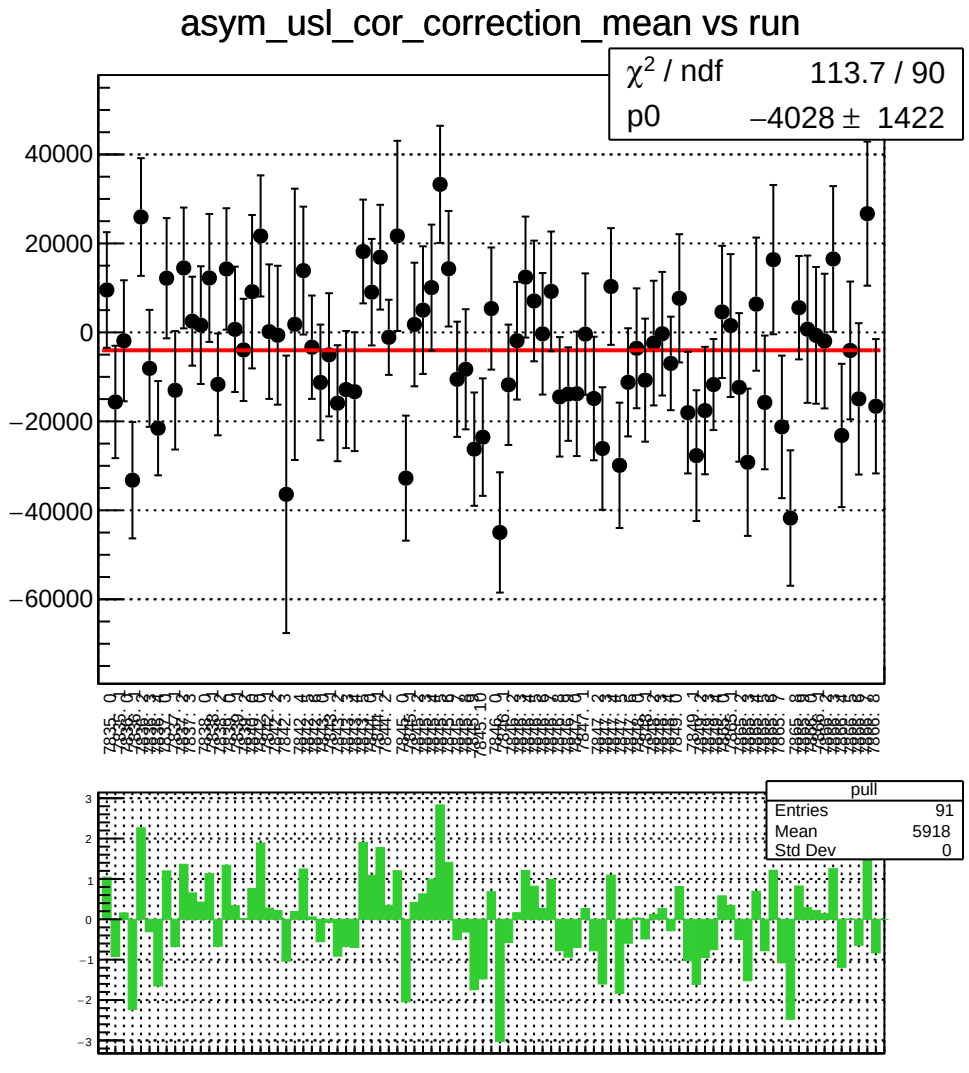

pull1D
Entries 91
Mean −0.0008358
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

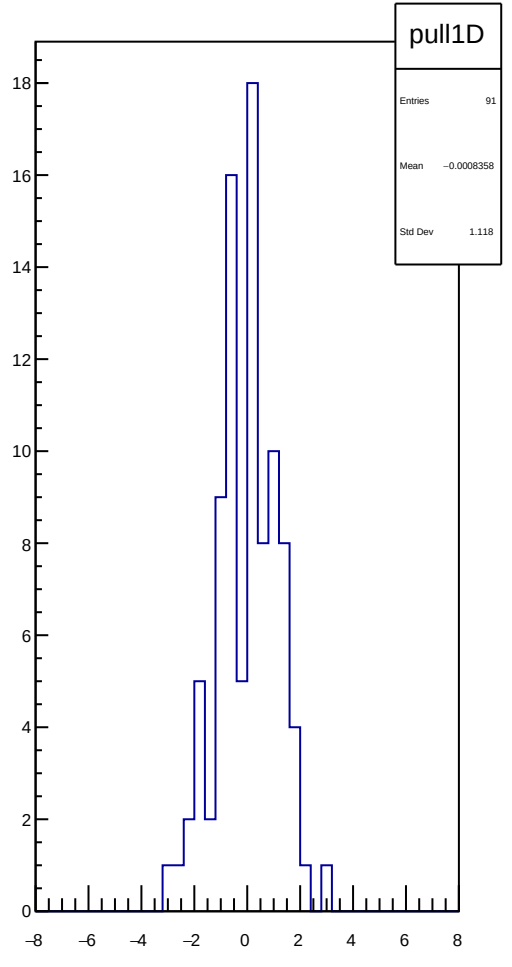

asym_usl_reg_correction_rms vs run
χ² / ndf 2.401e+04 / 90
p0 1323 ± 1.005
3000
2500
2000
1500
1000

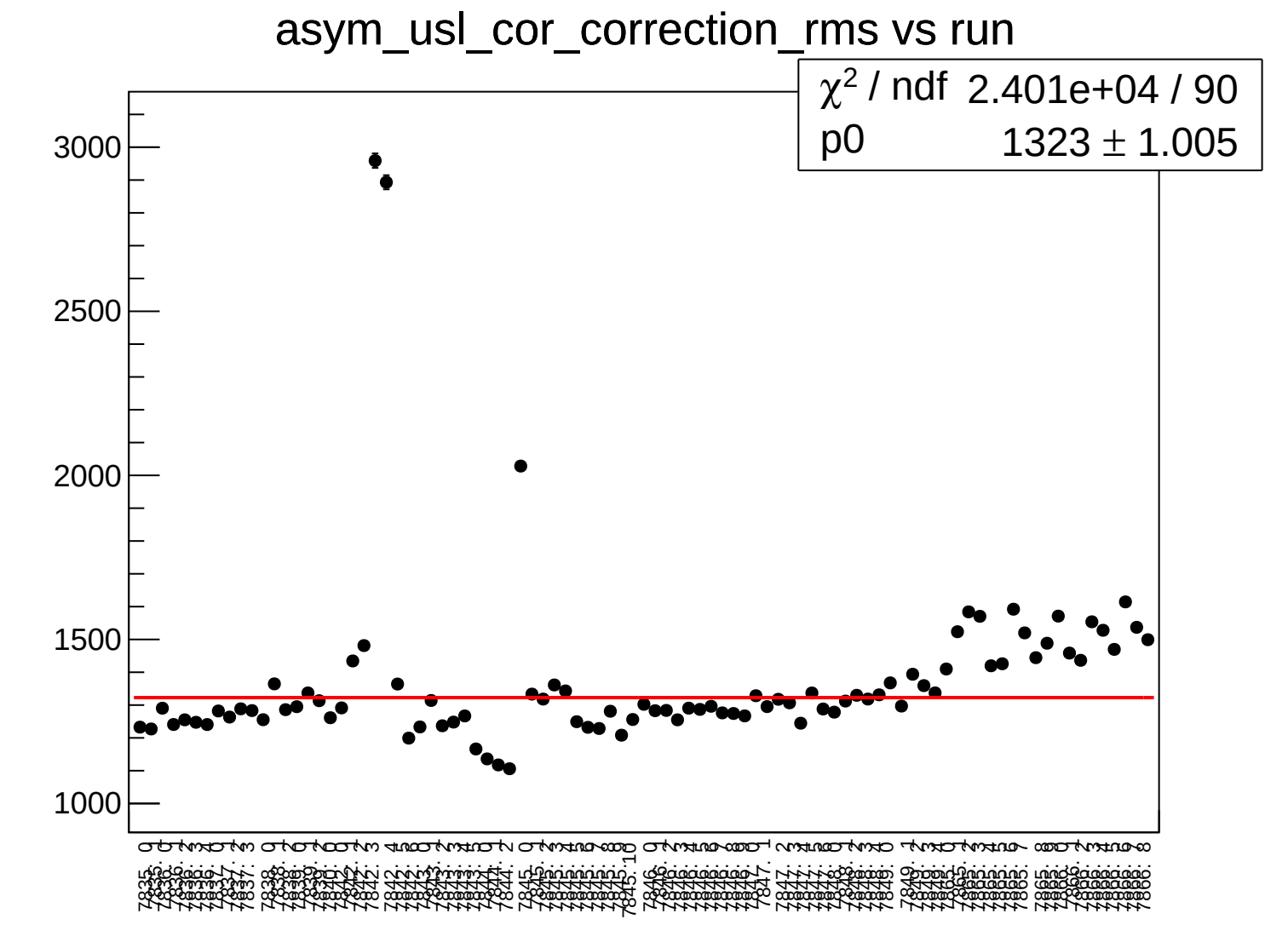

cor_asym_usl_mean vs run
χ² / ndf 87.67 / 90
p0 1753 ± 1170
pull
Entries 91
Mean 57.91
Std Dev 118.8

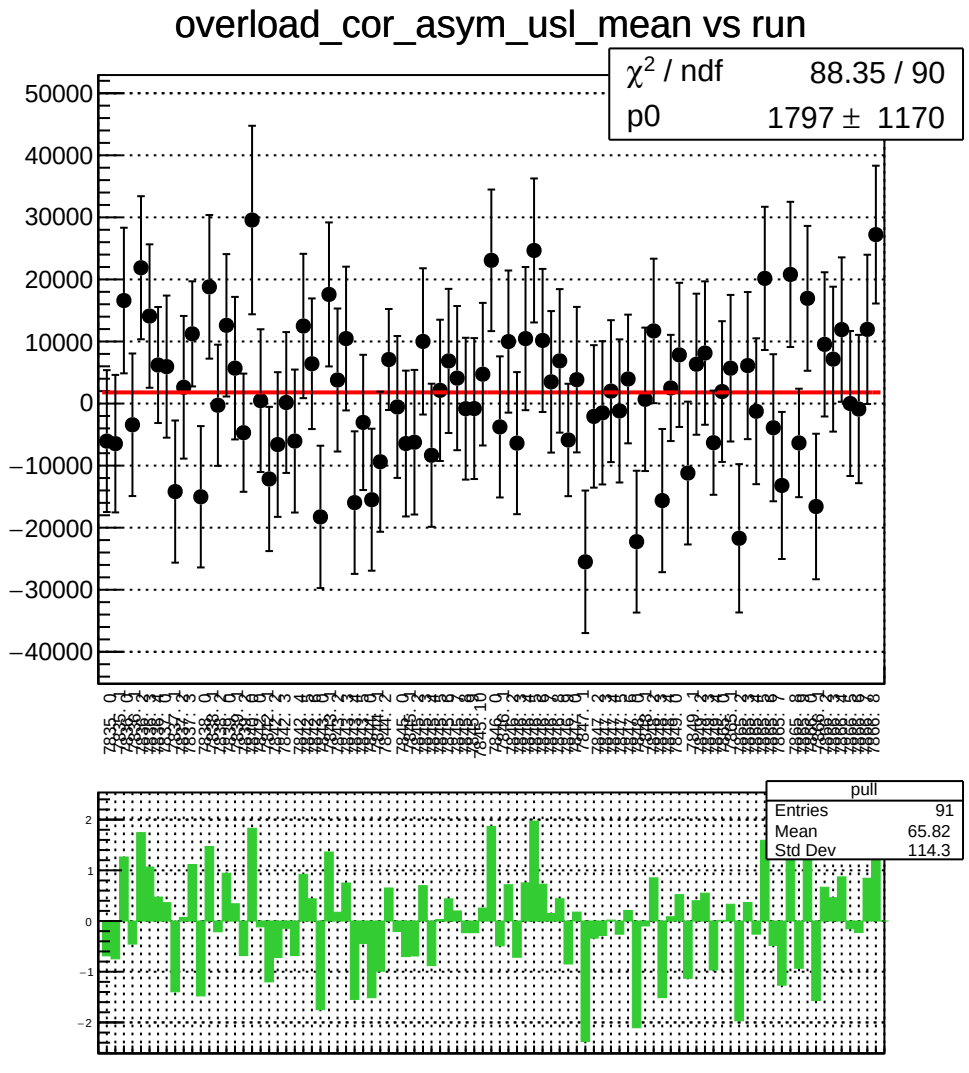

pull1D
Entries 91
Mean 0.007548
Std Dev 0.9815

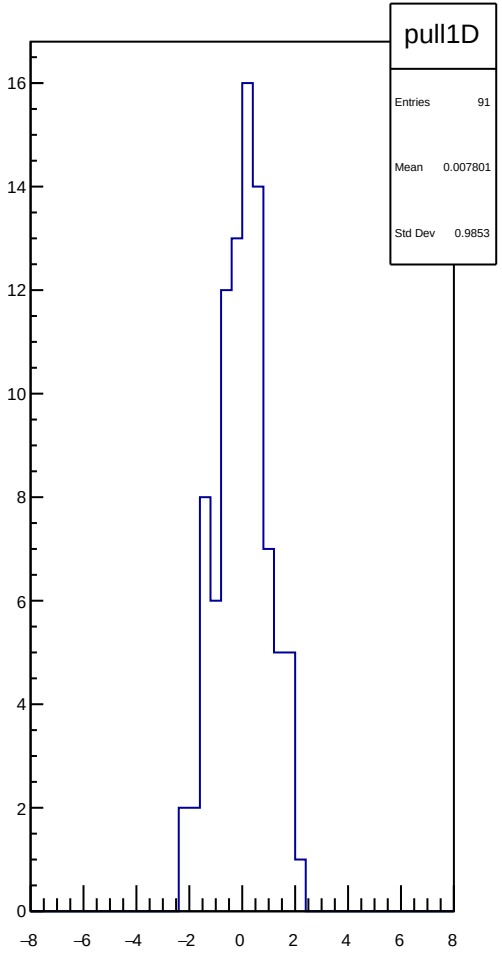

cor_asym_usl_rms vs run
χ^2 / ndf 300.9 / 90
p0 1096 ± 0.8276
1160
1140
1120
1100
1080
1060

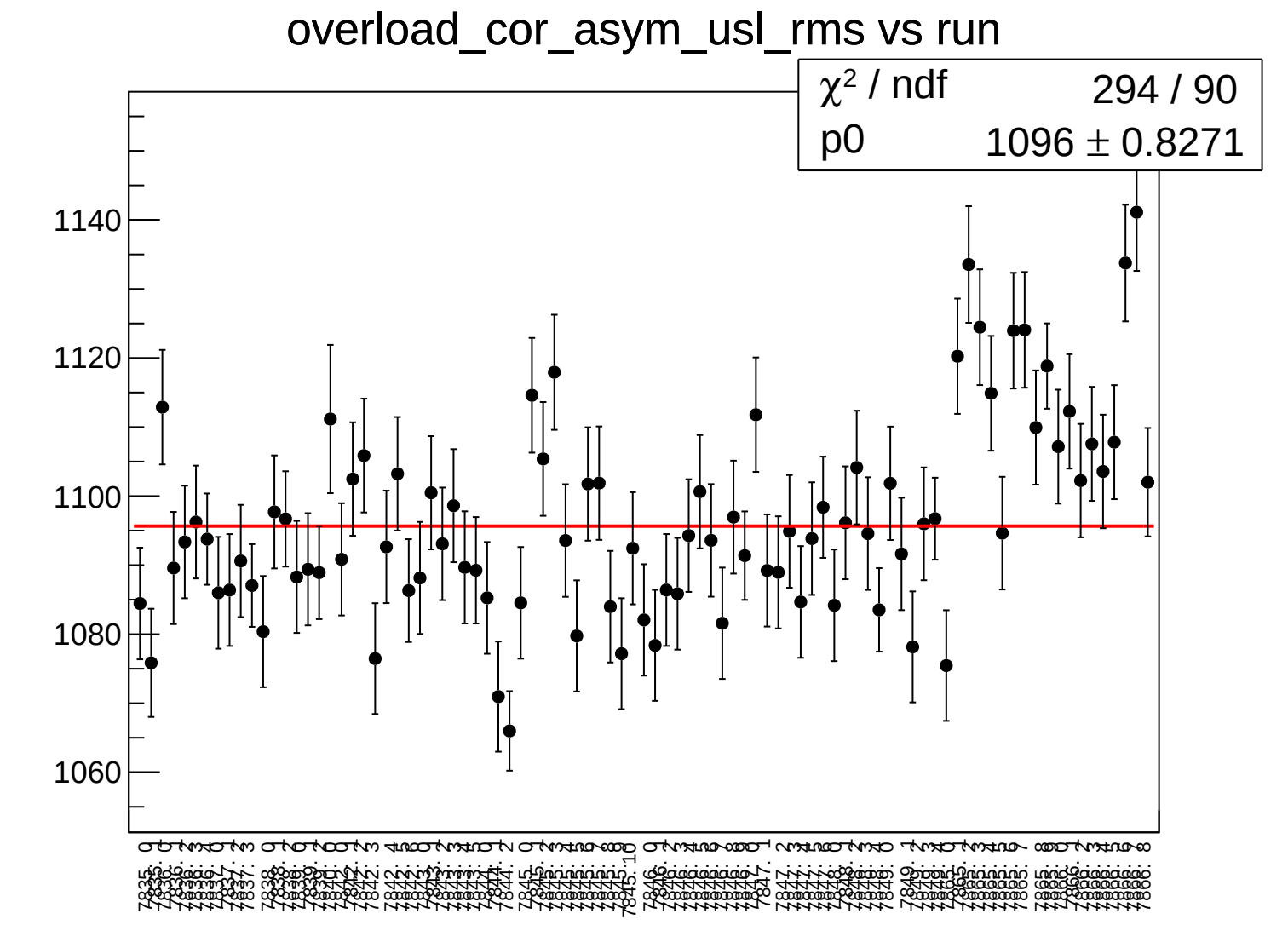

asym_usl_cor_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −4028 ± 1422
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 5918
Std Dev 0
3
2
1
0
−1
−2
−3

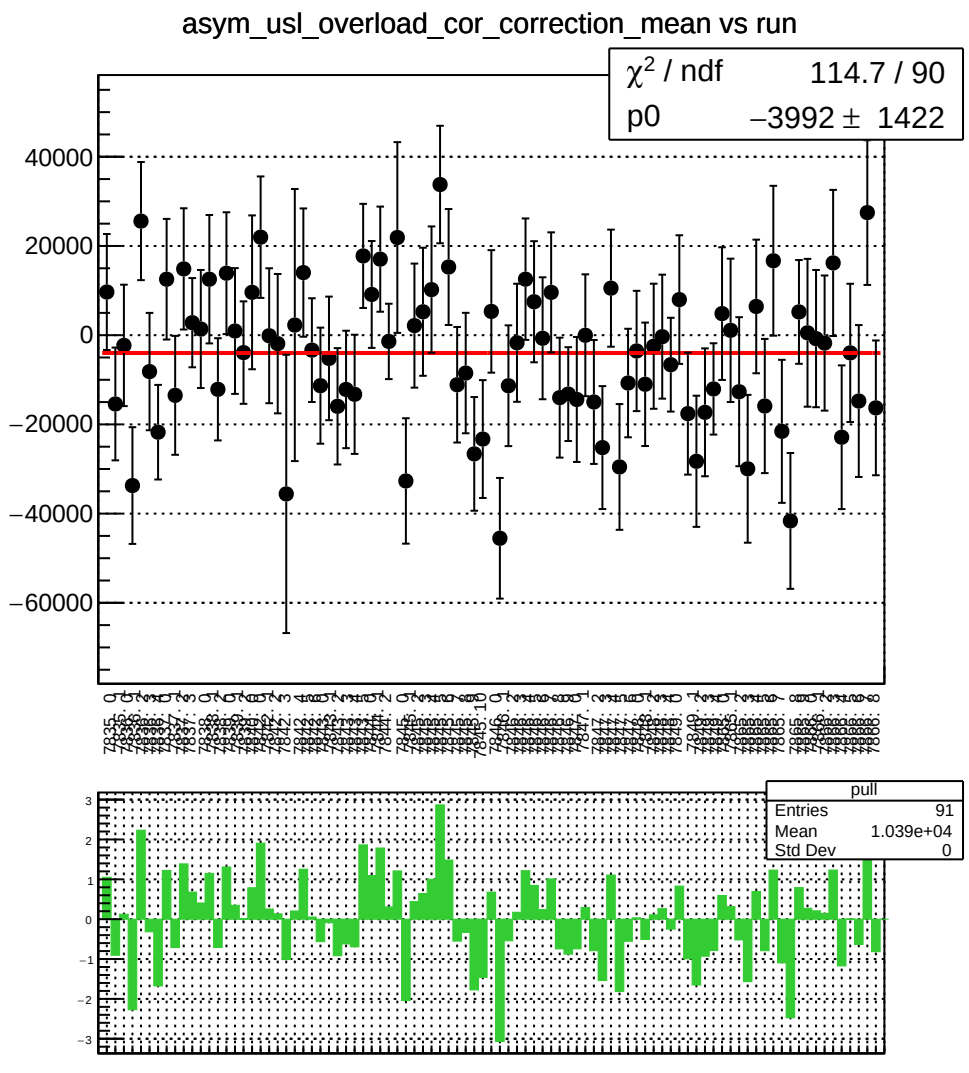

pull1D
Entries 91
Mean −0.0008358
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

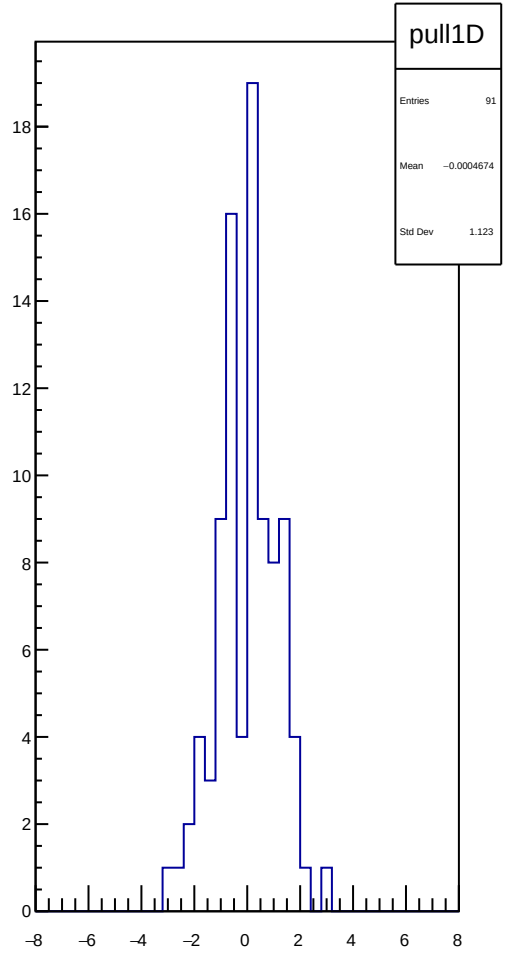

asym_usl_cor_correction_rms vs run
χ² / ndf 2.401e+04 / 90
p0 1323 ± 1.005
3000
2500
2000
1500
1000

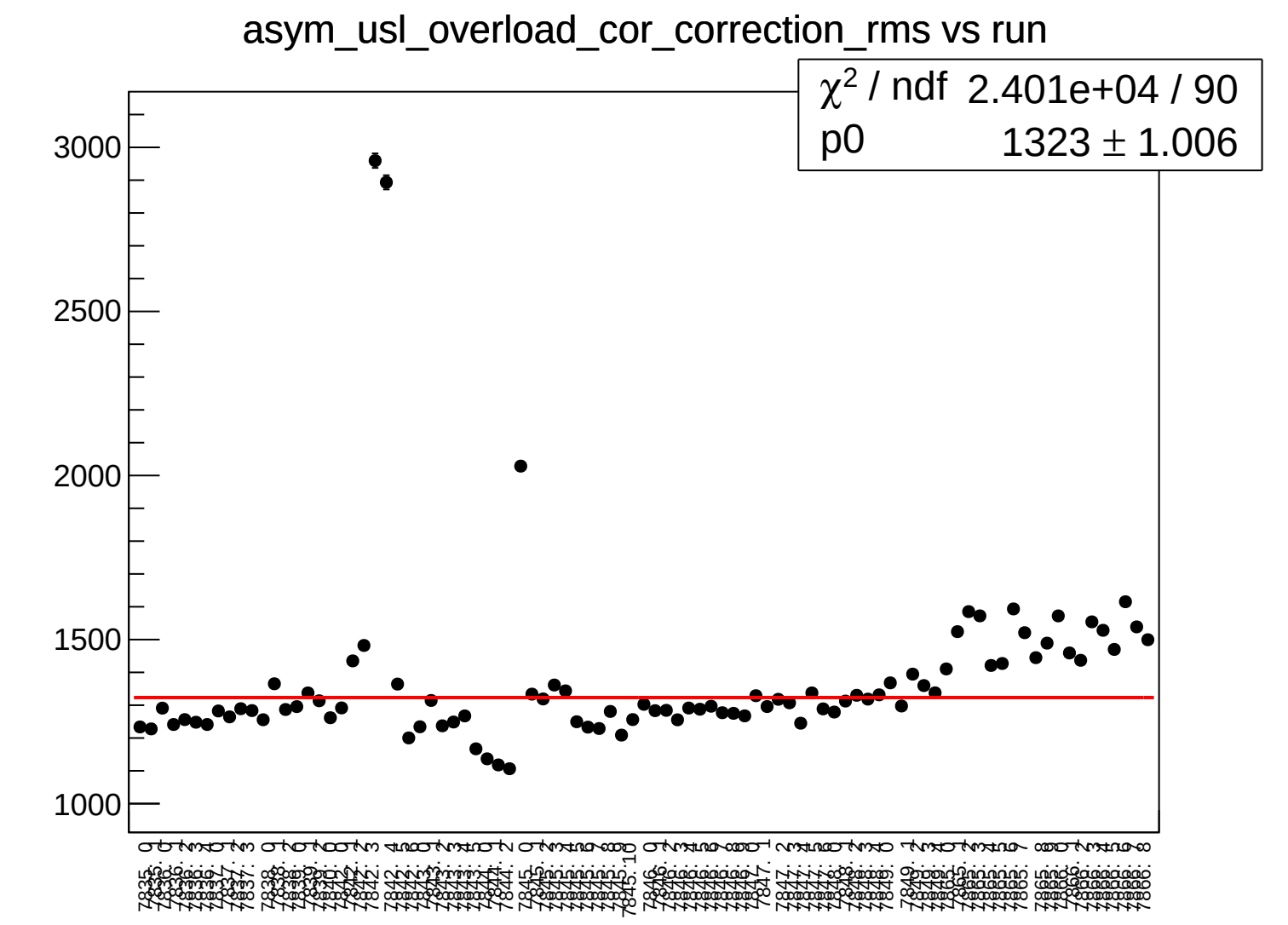

overload_cor_asym_usl_mean vs run
χ² / ndf 88.35 / 90
p0 1797 ± 1170
pull
Entries 91
Mean 65.82
Std Dev 114.3

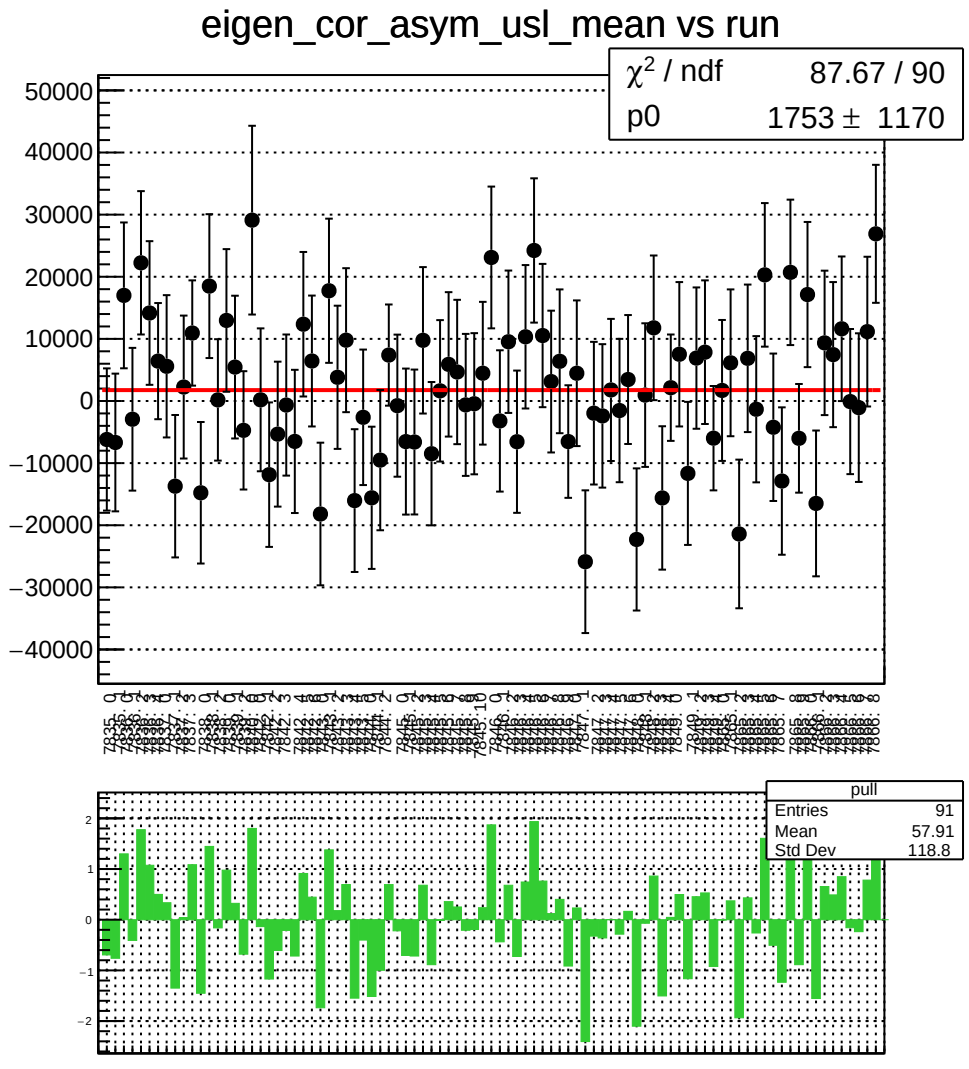

pull1D
Entries 91
Mean 0.007801
Std Dev 0.9853

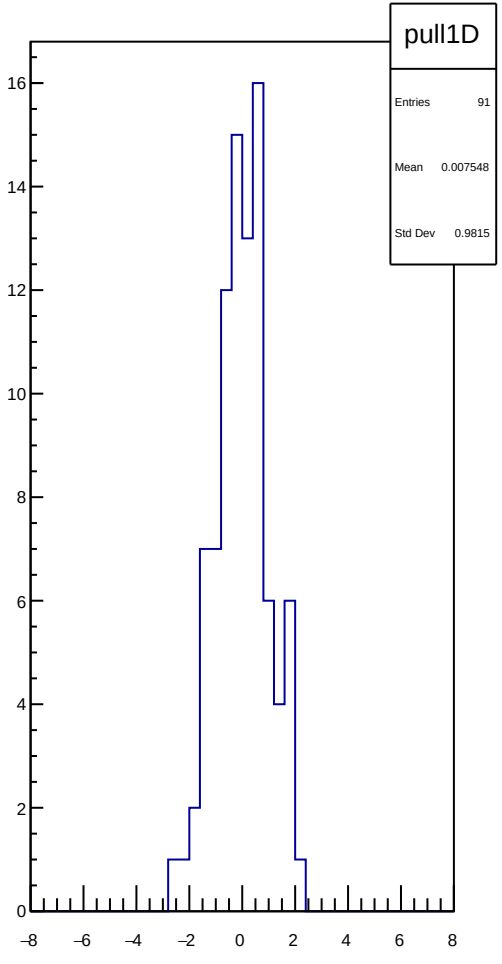

overload_cor_asym_usl_rms vs run
χ² / ndf 294 / 90
p0 1096 ± 0.8271
1140
1120
1100
1080
1060

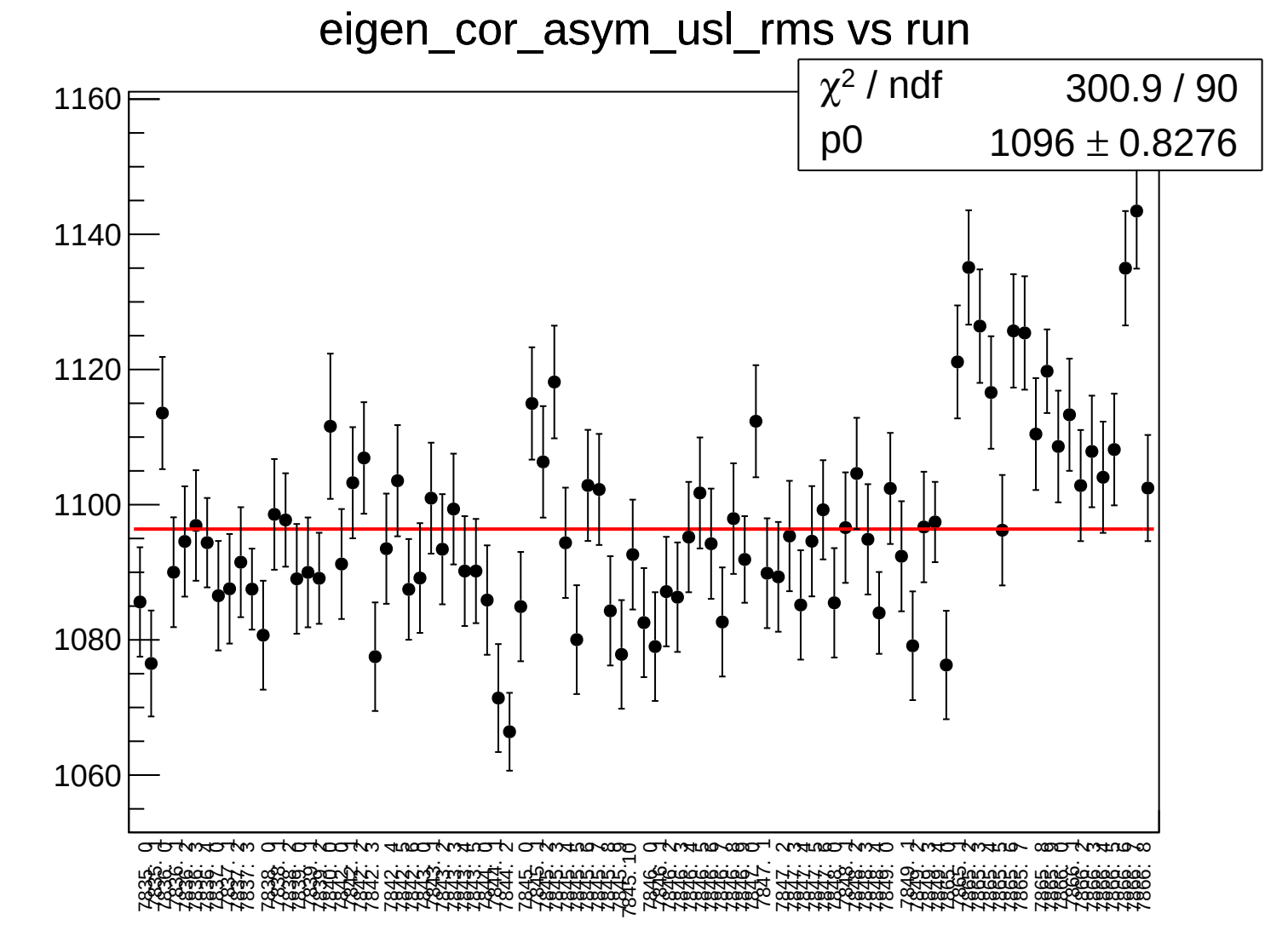

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 114.7 / 90
p0 −3992 ± 1422
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1.039e+04
Std Dev 0
3
2
1
0
−1
−2
−3

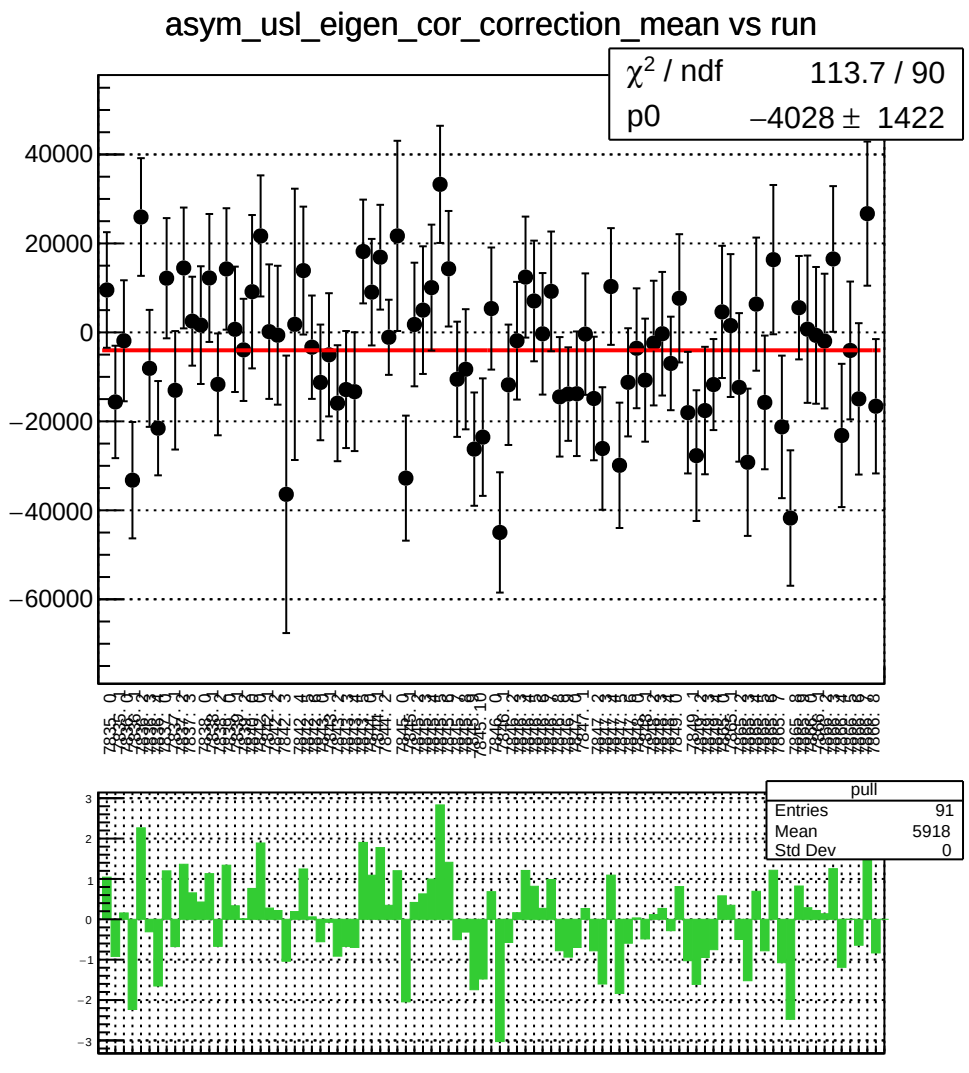

pull1D
Entries 91
Mean −0.0004674
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

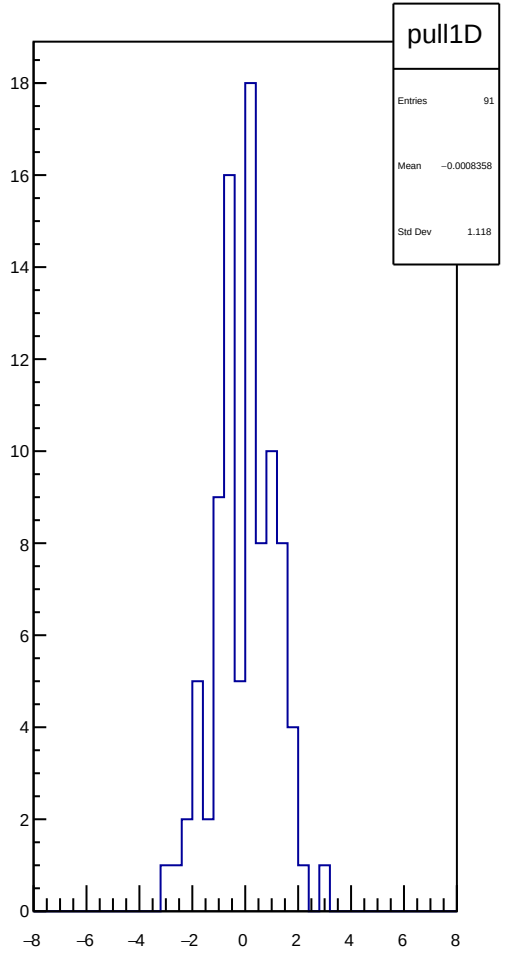

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2.401e+04 / 90
p0 1323 ± 1.006
3000
2500
2000
1500
1000

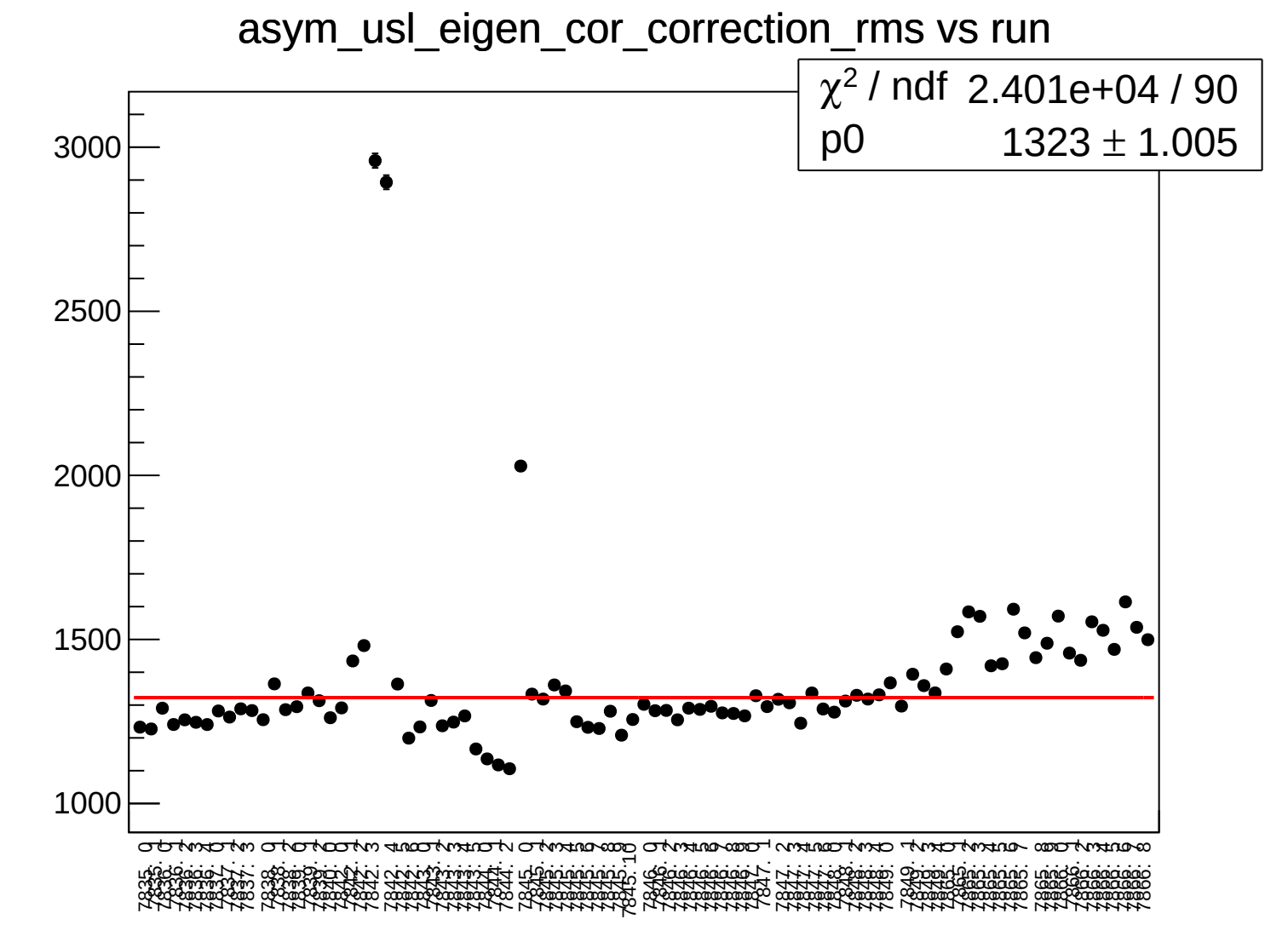

eigen_cor_asym_usl_mean vs run
χ² / ndf 87.67 / 90
p0 1753 ± 1170
pull
Entries 91
Mean 57.91
Std Dev 118.8

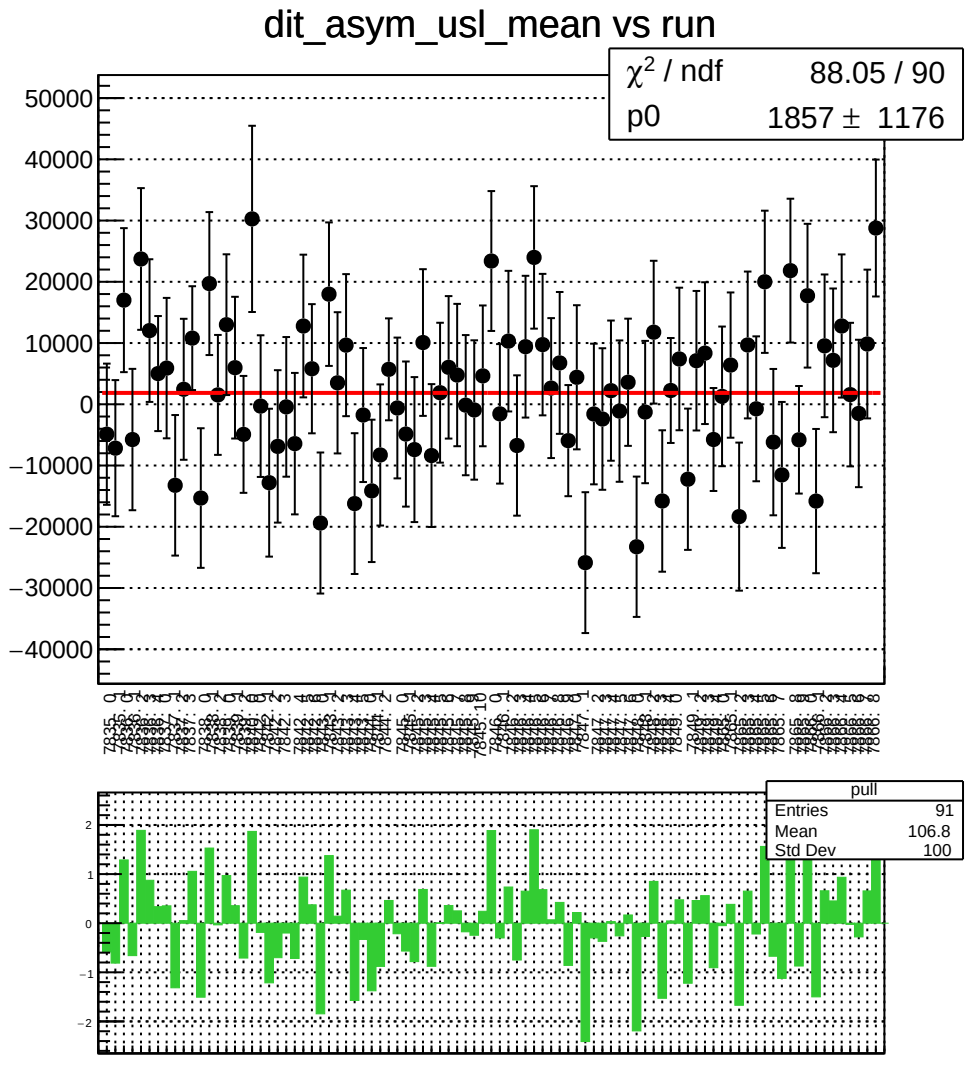

pull1D
Entries 91
Mean 0.007548
Std Dev 0.9815

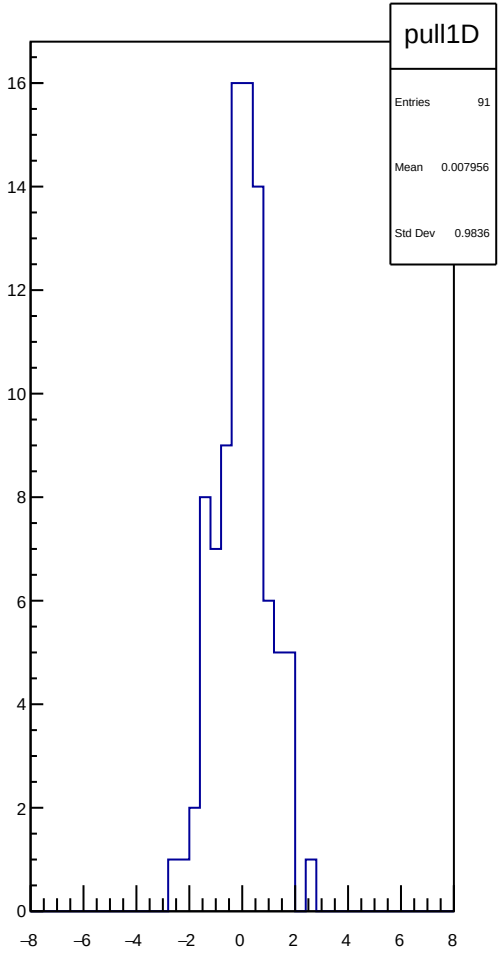

eigen_cor_asym_usl_rms vs run
χ² / ndf 300.9 / 90
p0 1096 ± 0.8276
1160
1140
1120
1100
1080
1060

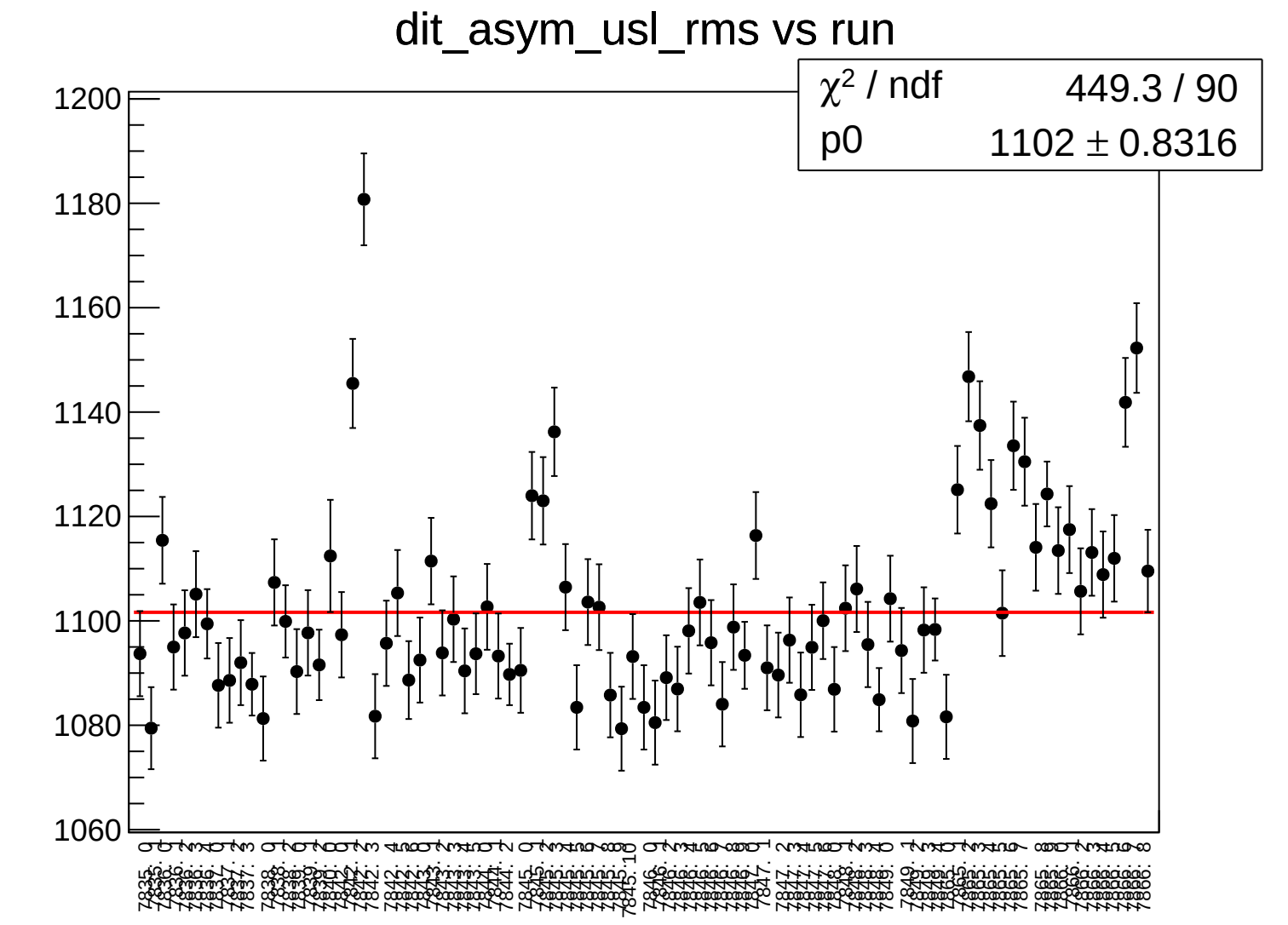

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −4028 ± 1422
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 5918
Std Dev 0
3
2
1
0
−1
−2
−3

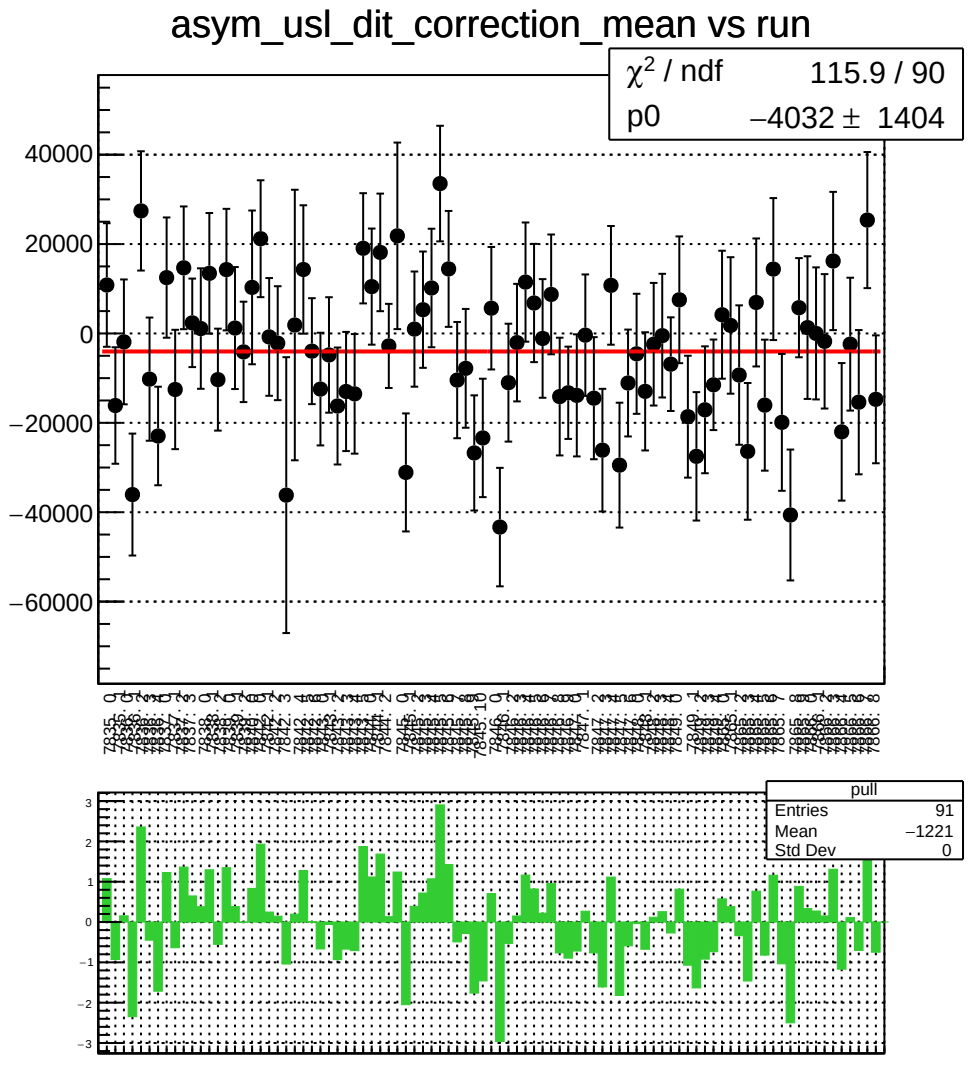

pull1D
Entries 91
Mean −0.0008358
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

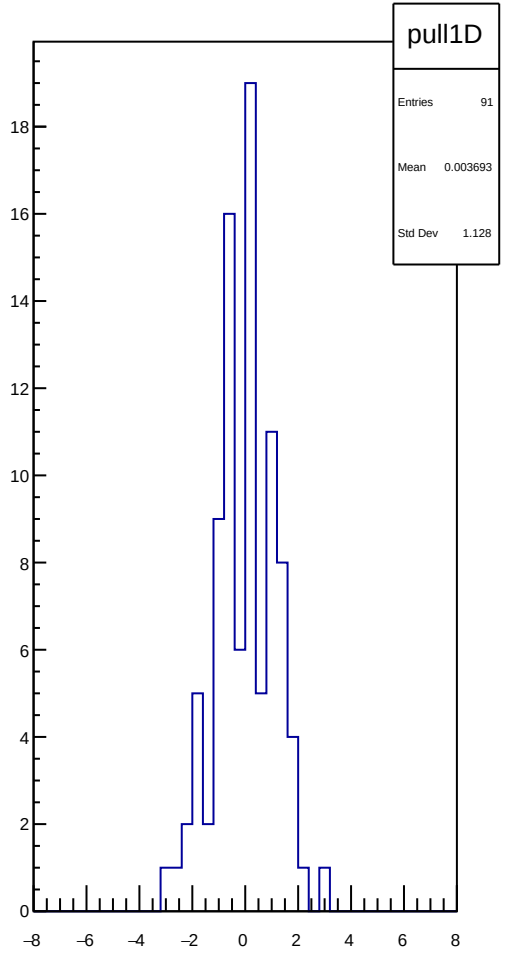

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2.401e+04 / 90
p0 1323 ± 1.005
3000
2500
2000
1500
1000

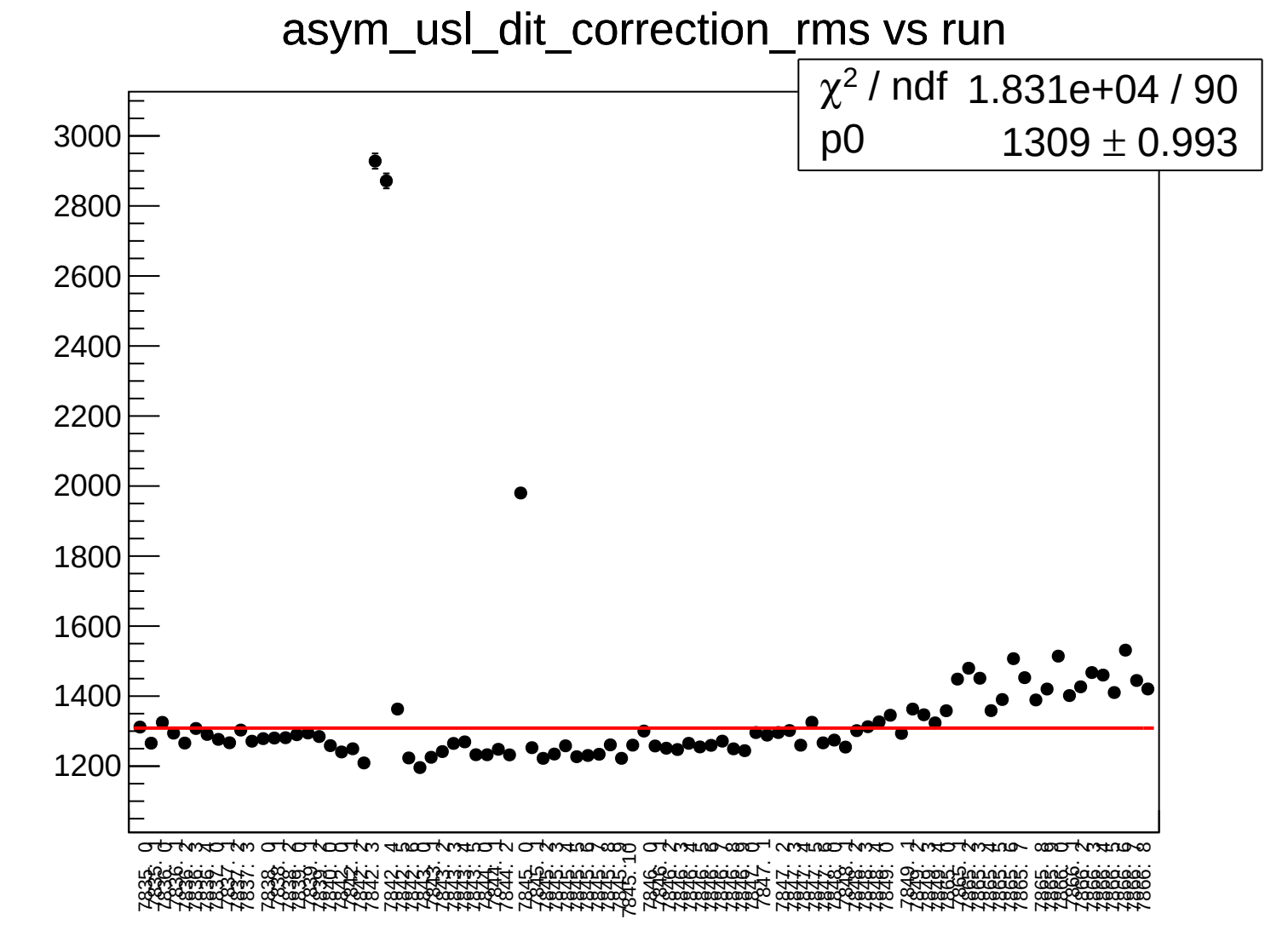

dit_asym_usl_mean vs run
χ² / ndf 88.05 / 90
p0 1857 ± 1176
pull
Entries 91
Mean 106.8
Std Dev 100

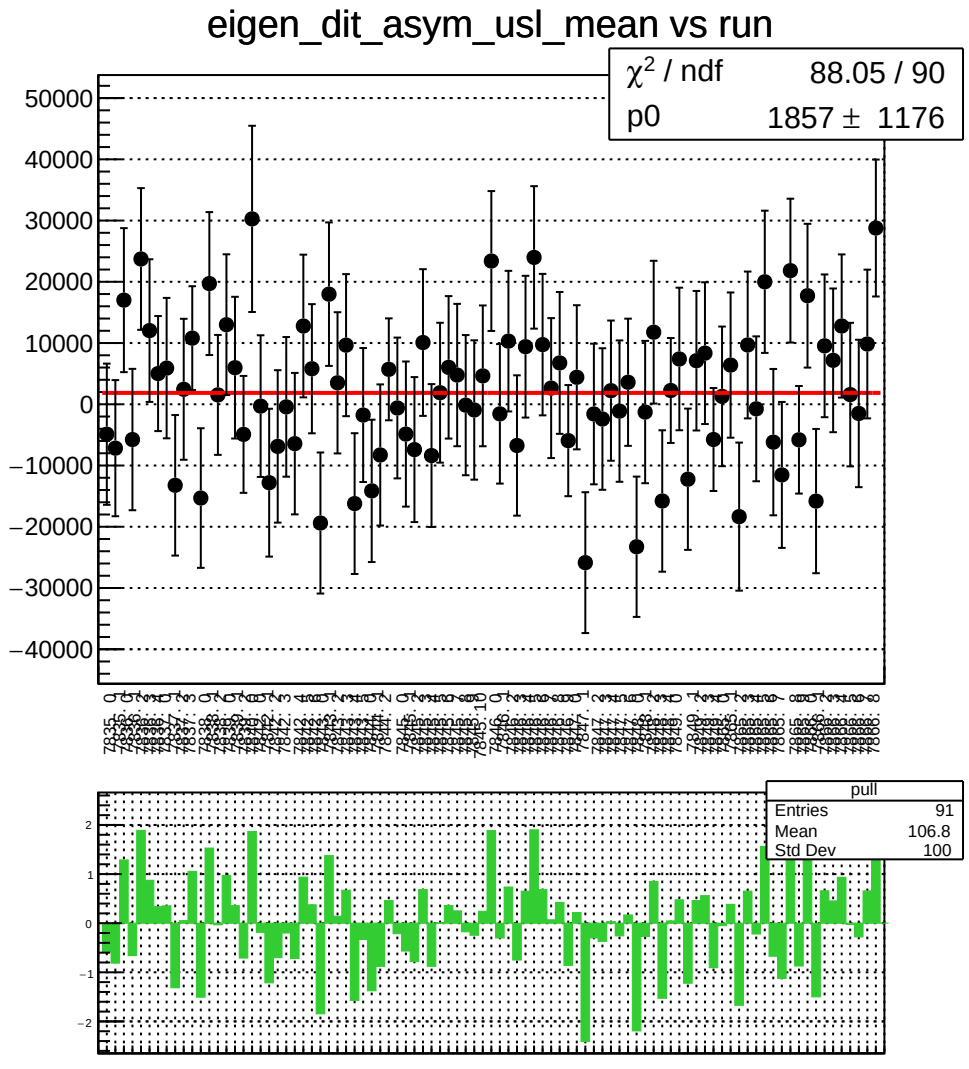

pull1D
Entries 91
Mean 0.007956
Std Dev 0.9836

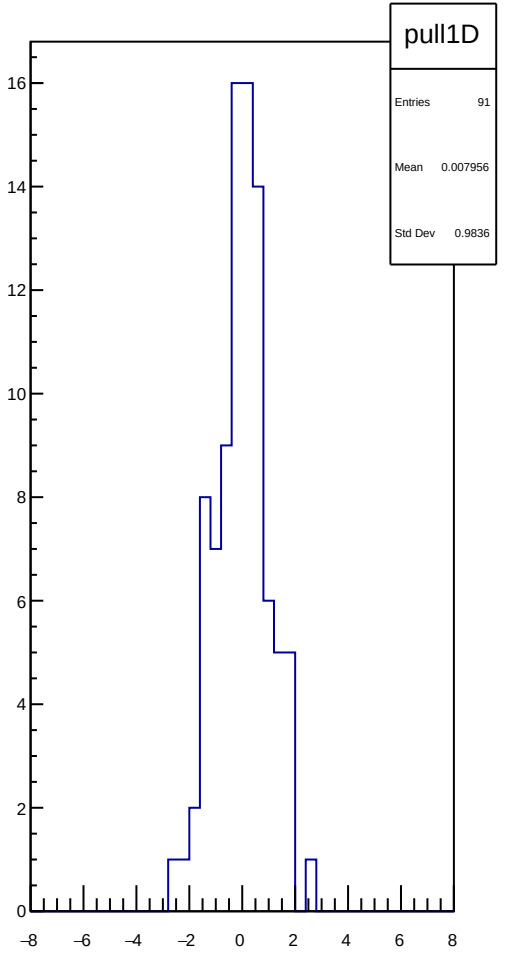

dit_asym_usl_rms vs run
χ² / ndf 449.3 / 90
p0 1102 ± 0.8316
1200
1180
1160
1140
1120
1100
1080
1060

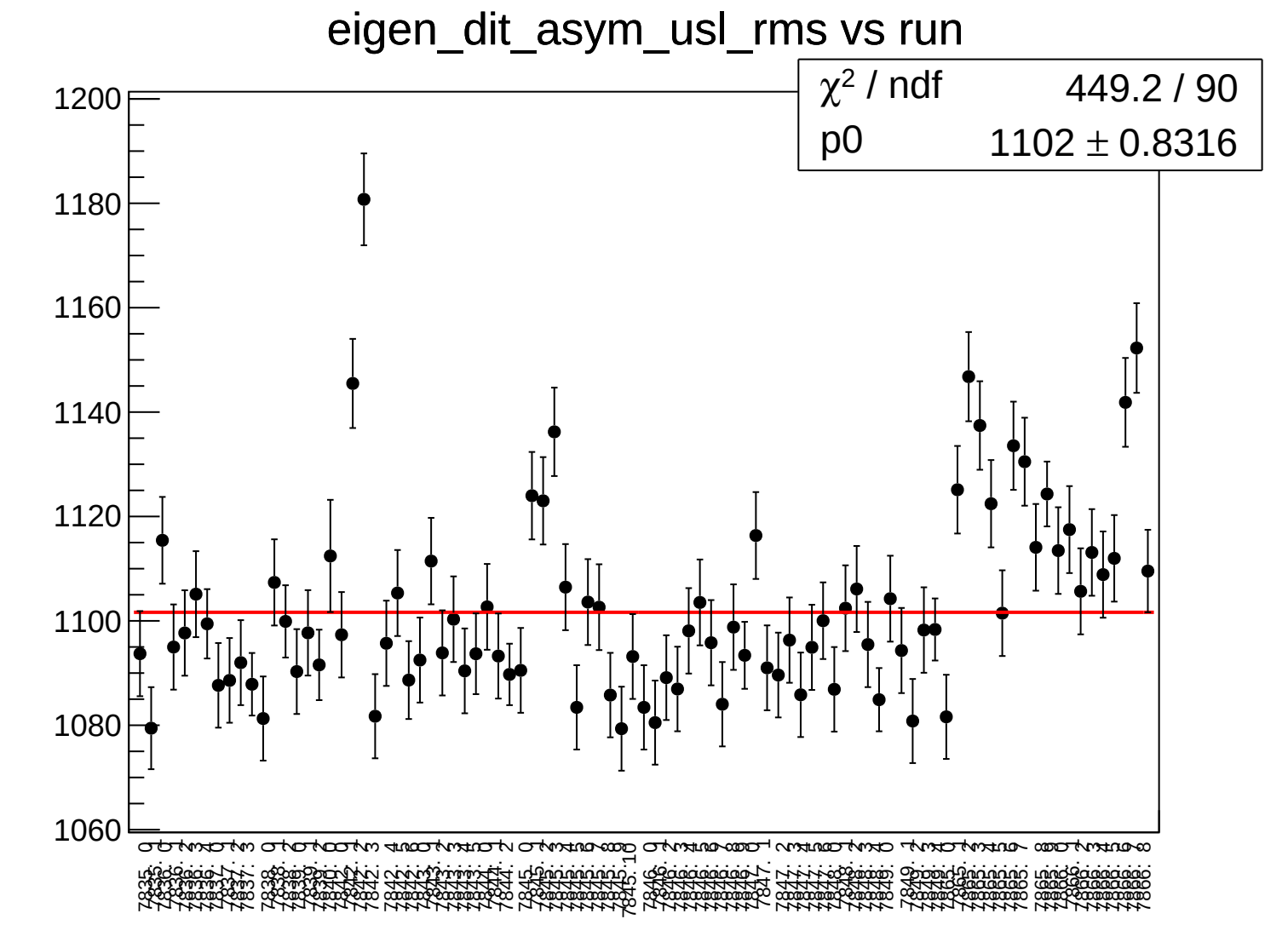

asym_usl_dit_correction_mean vs run
χ² / ndf 115.9 / 90
p0 −4032 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1221
Std Dev 0
3
2
1
0
−1
−2
−3

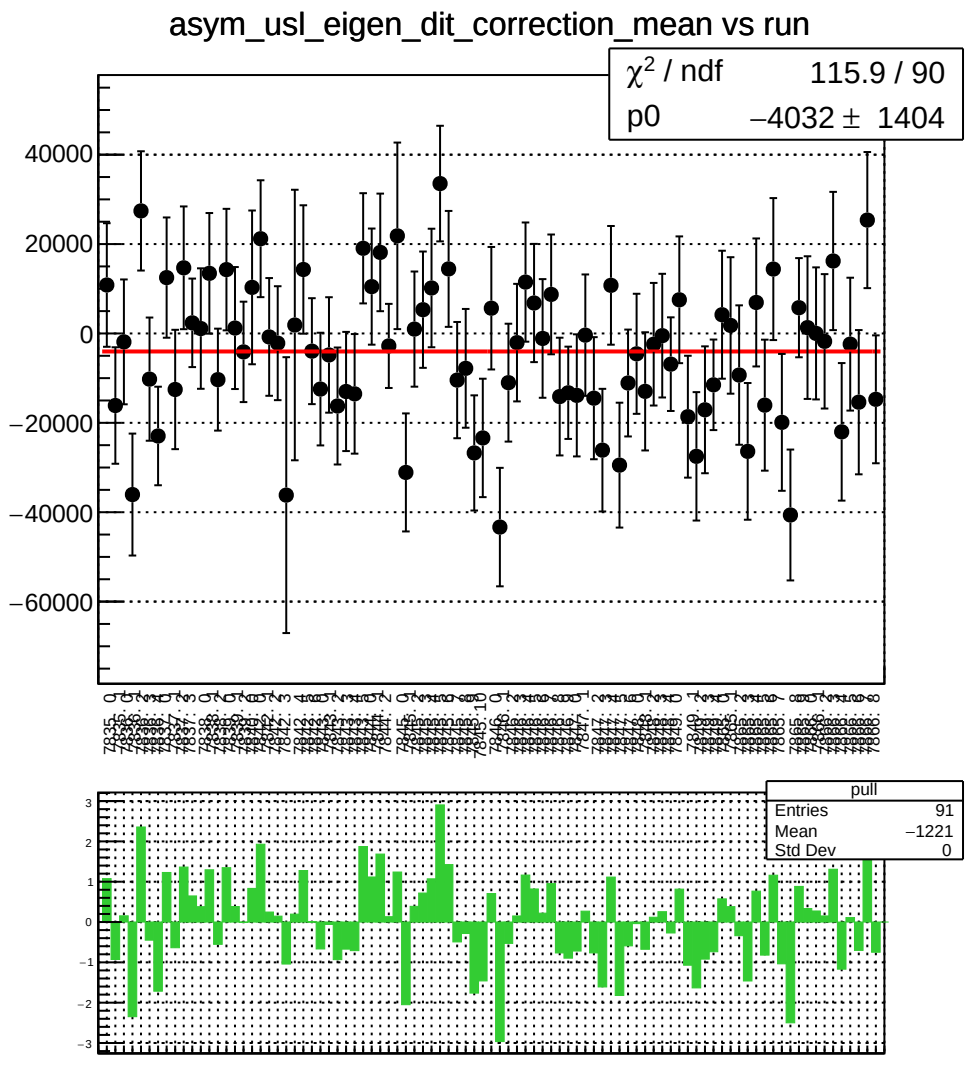

pull1D
Entries 91
Mean 0.003693
Std Dev 1.128
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

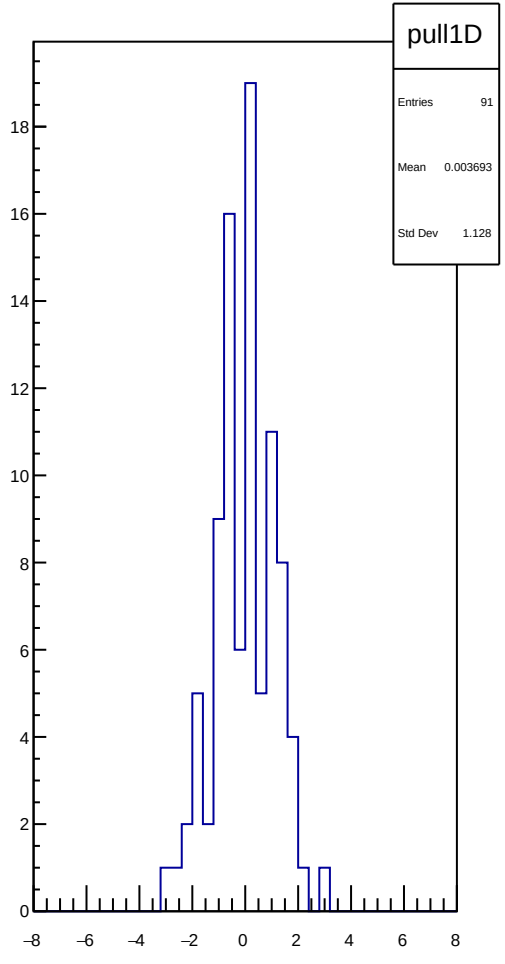

asym_usl_dit_correction_rms vs run
χ² / ndf 1.831e+04 / 90
p0 1309 ± 0.993
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

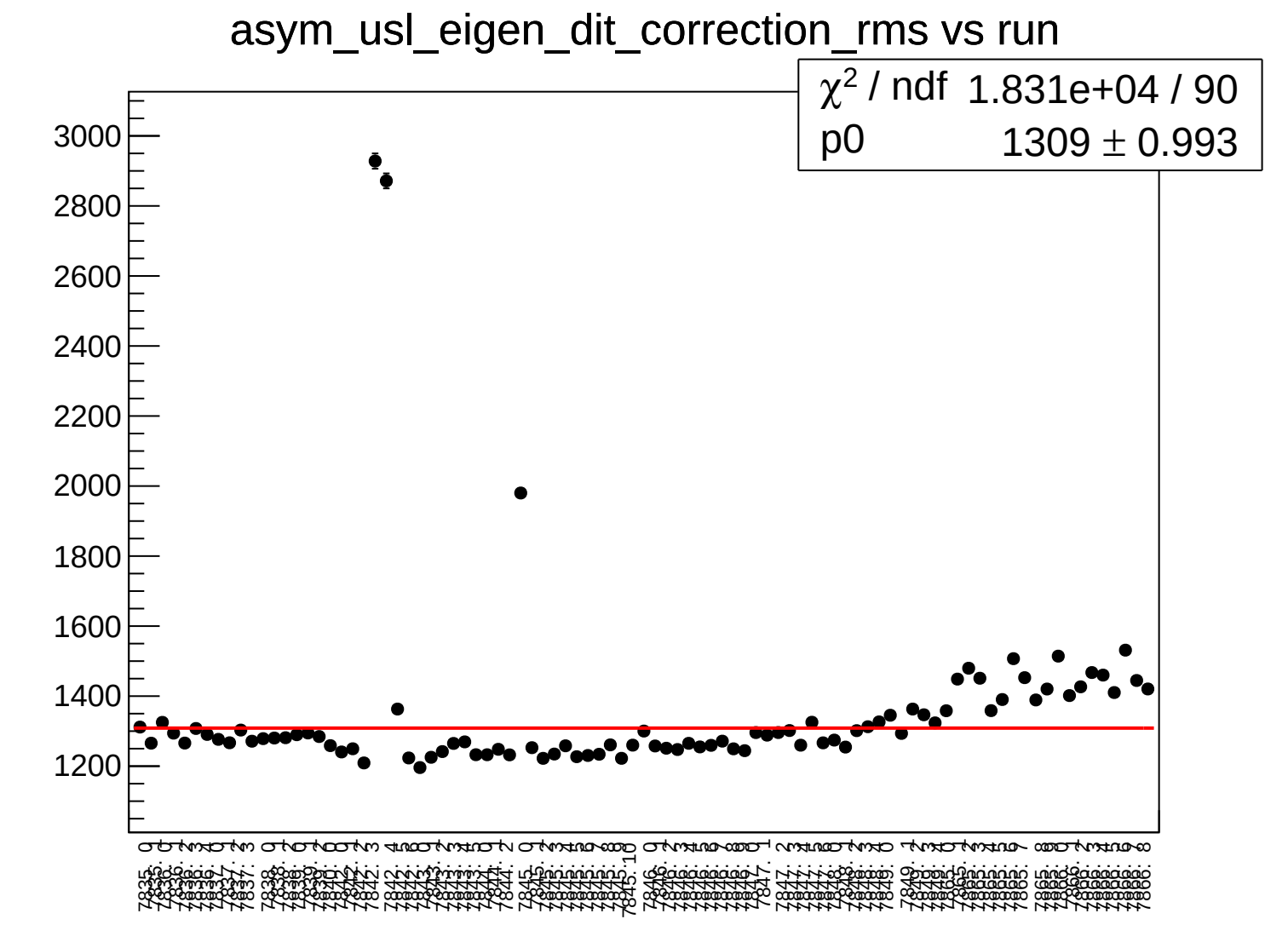

eigen_dit_asym_usl_mean vs run
χ² / ndf 88.05 / 90
p0 1857 ± 1176
pull
Entries 91
Mean 106.8
Std Dev 100

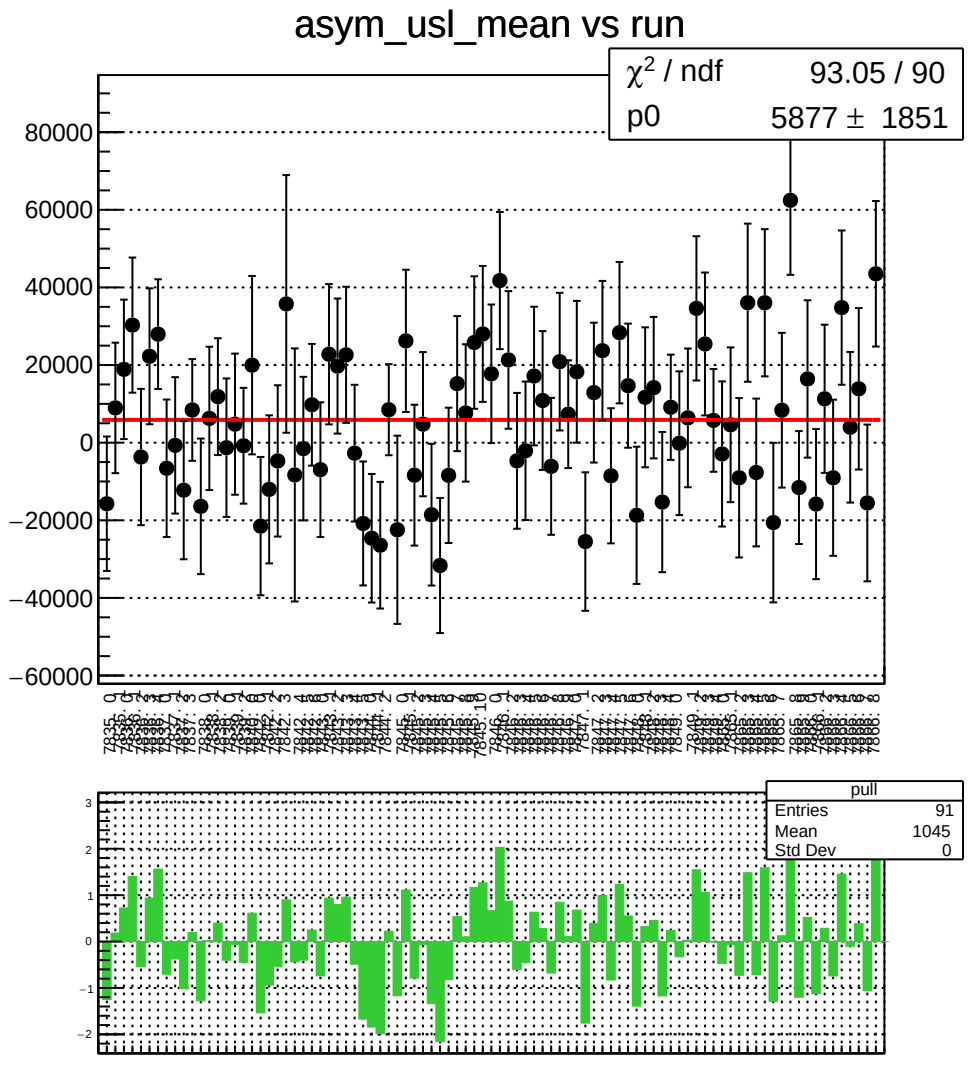

pull1D
Entries 91
Mean 0.007956
Std Dev 0.9836

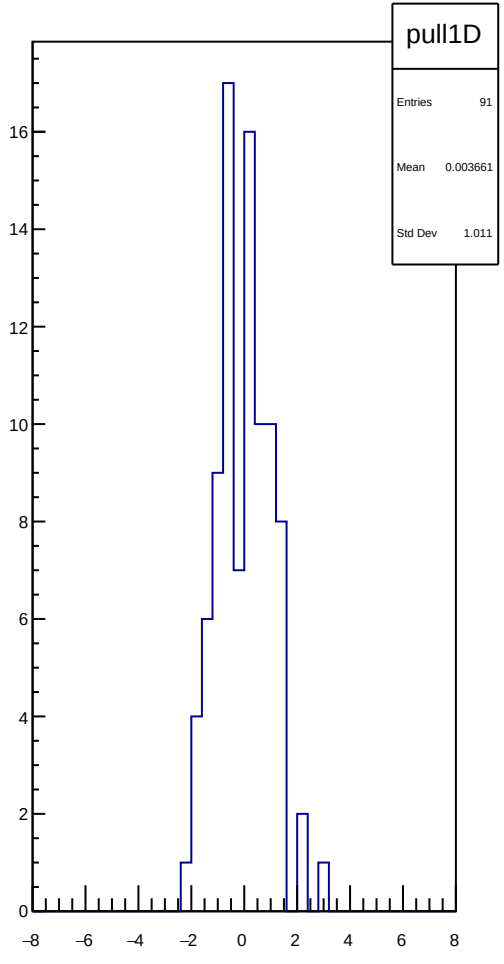

eigen_dit_asym_usl_rms vs run
χ² / ndf 449.2 / 90
p0 1102 ± 0.8316
1200
1180
1160
1140
1120
1100
1080
1060

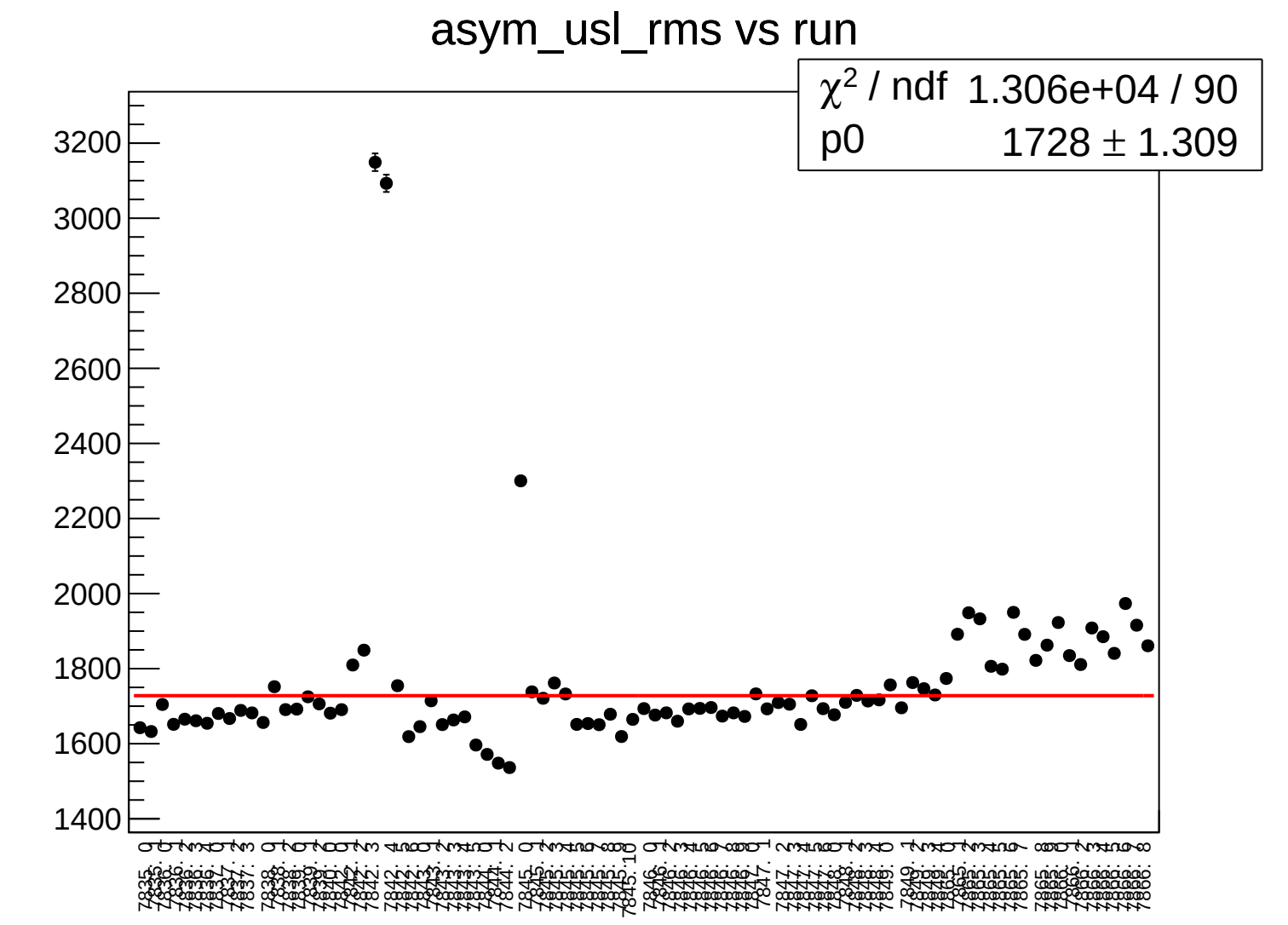

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 115.9 / 90
p0 −4032 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1221
Std Dev 0
3
2
1
0
−1
−2
−3

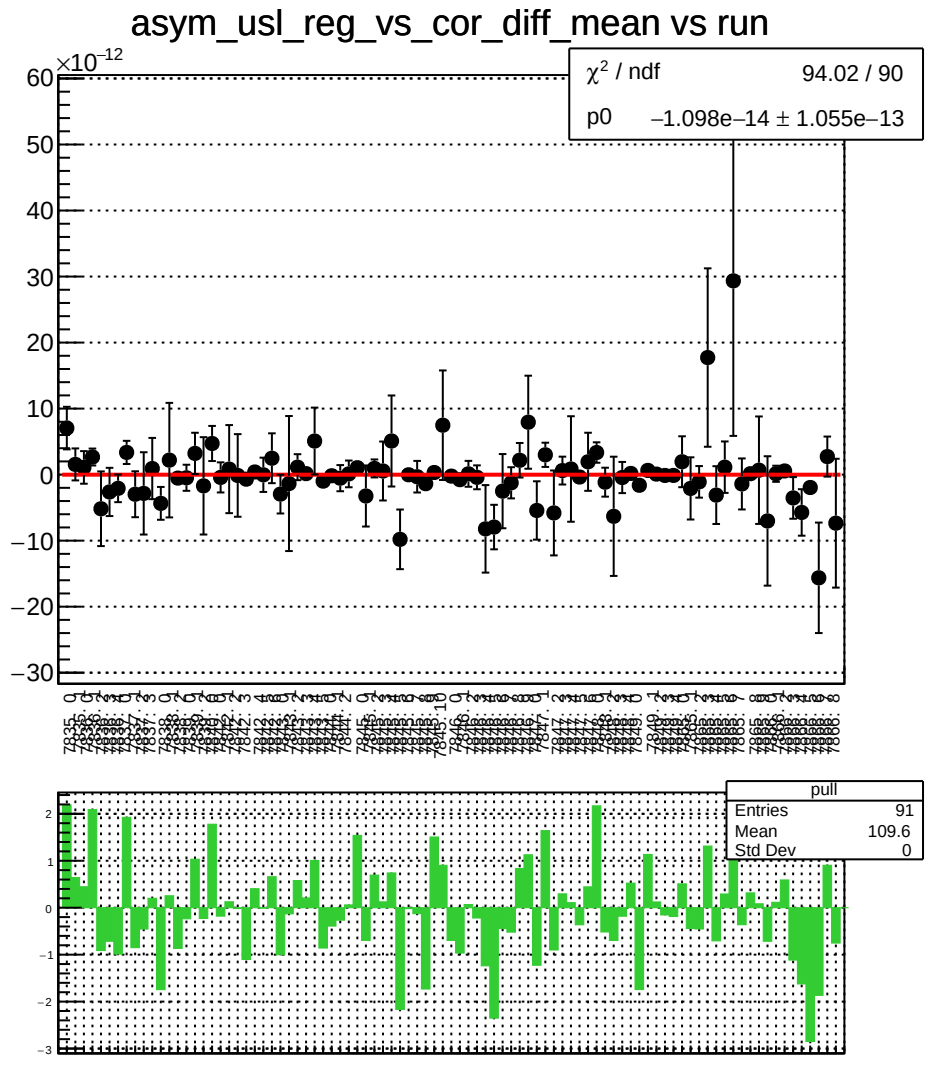

pull1D
Entries 91
Mean 0.003693
Std Dev 1.128
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

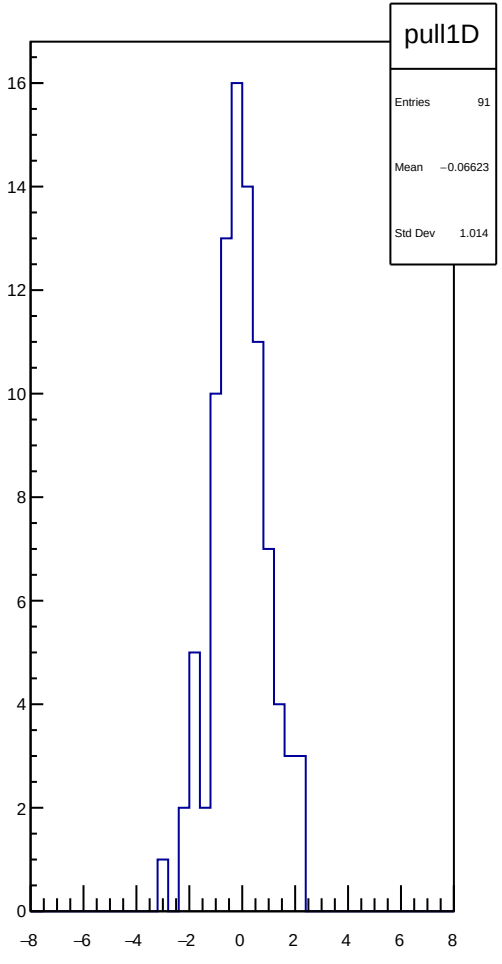

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.831e+04 / 90
p0 1309 ± 0.993
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

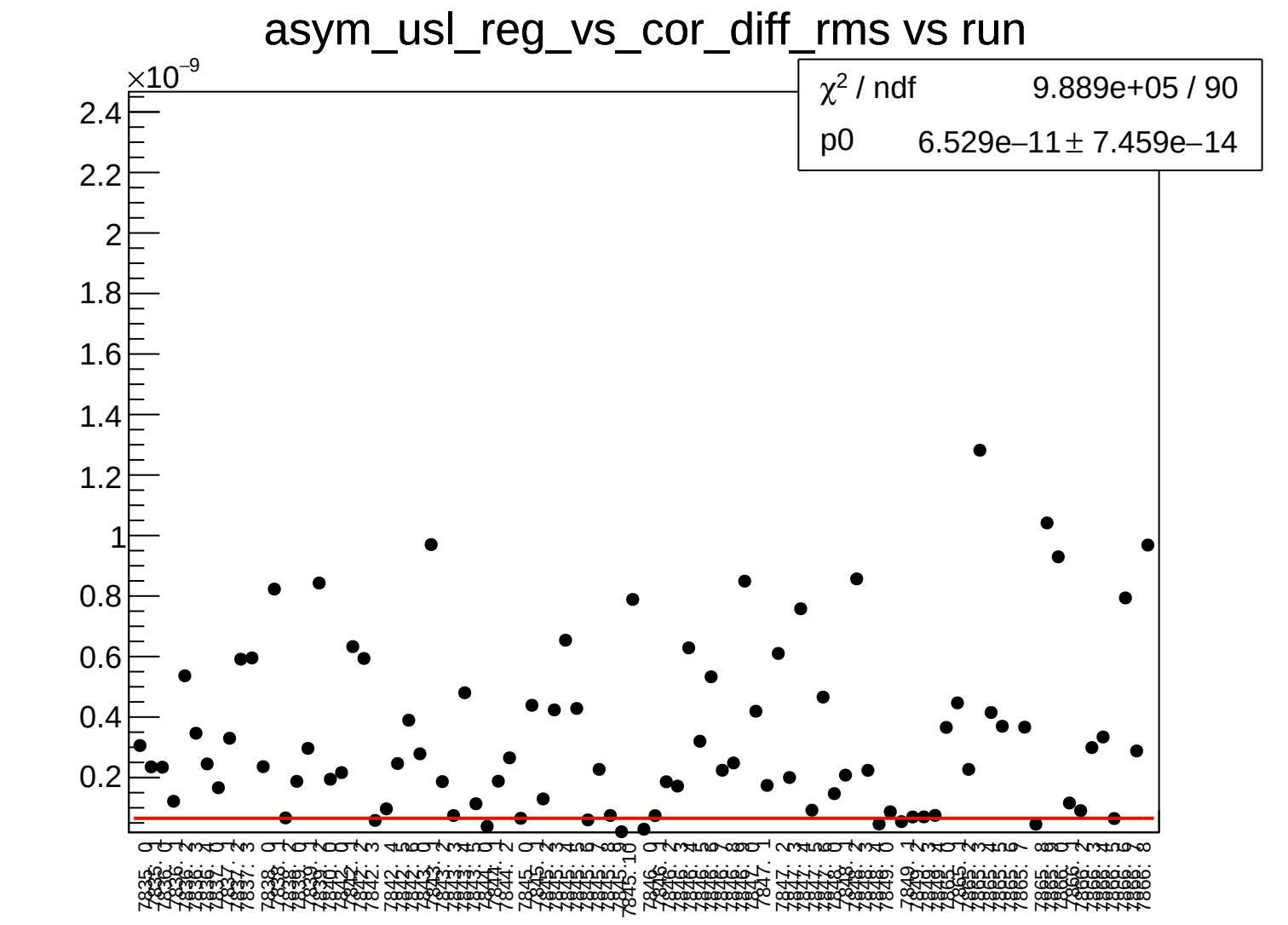

asym_usl_mean vs run
χ² / ndf 93.05 / 90
p0 5877 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1045
Std Dev 0
3
2
1
0
−1
−2

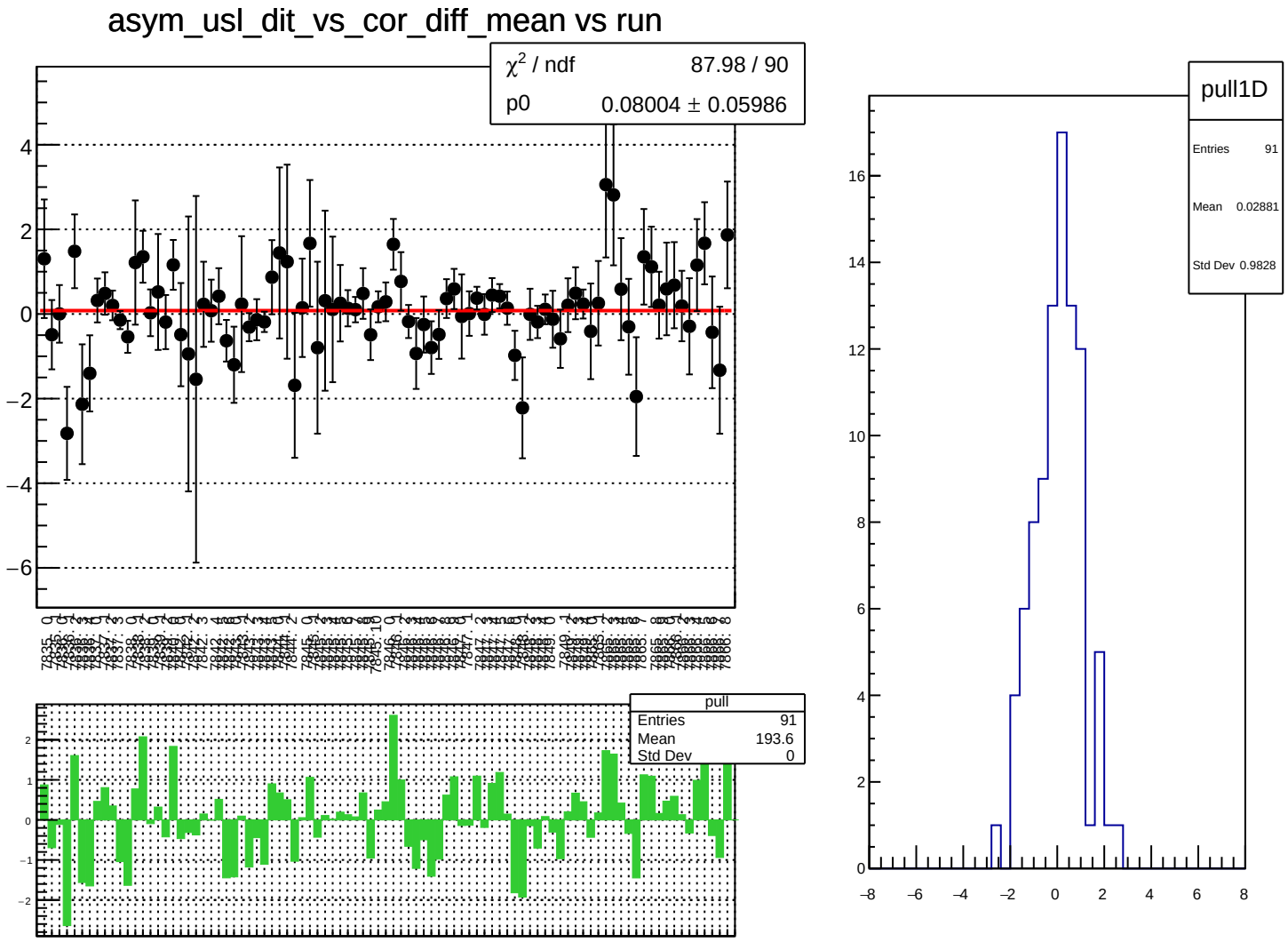

pull1D
Entries 91
Mean 0.003661
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

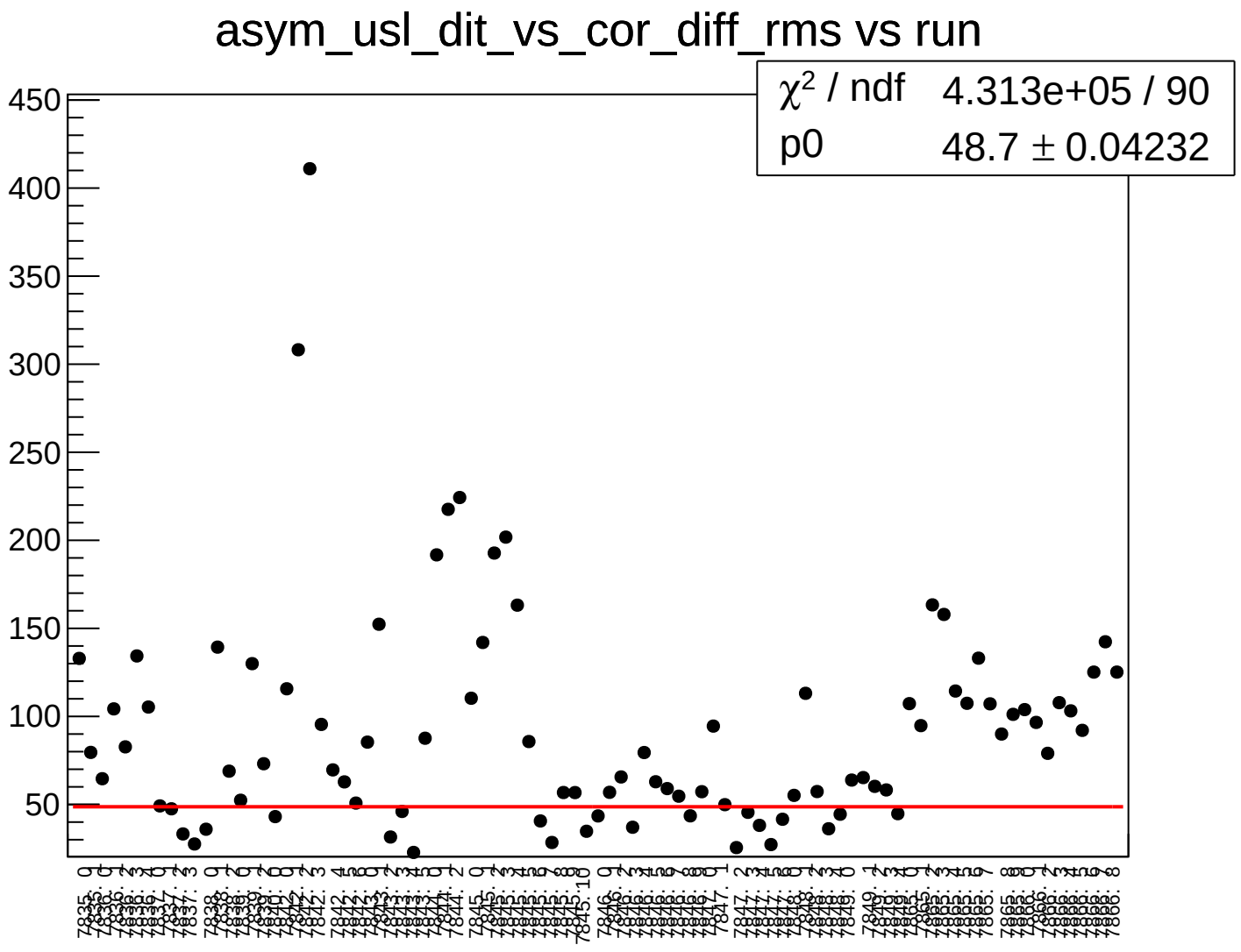

asym_usl_rms vs run
χ² / ndf 1.306e+04 / 90
p0 1728 ± 1.309
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

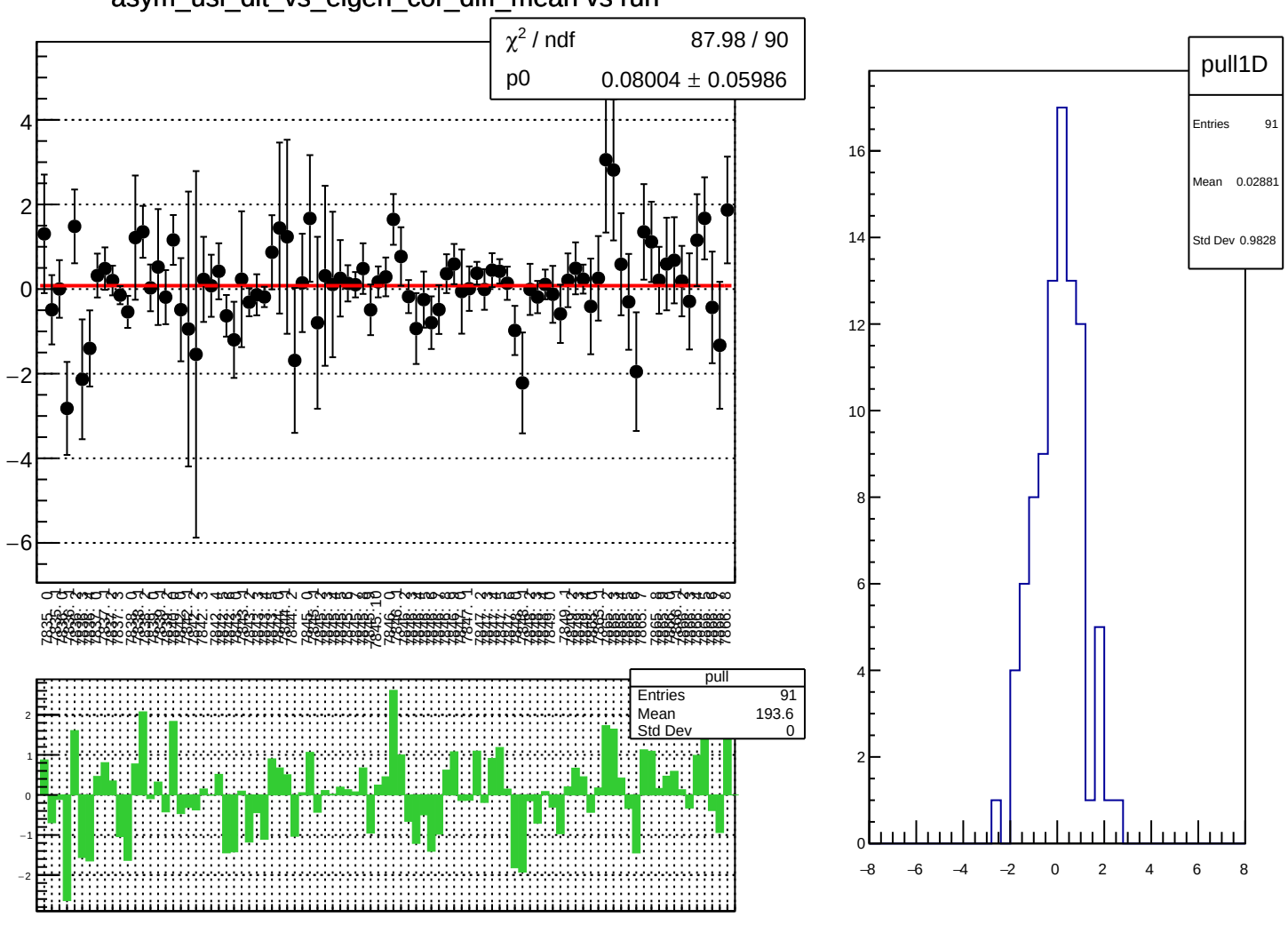

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.02 / 90
p0 −1.098e−14 ± 1.055e−13
pull
Entries 91
Mean 109.6
Std Dev 0

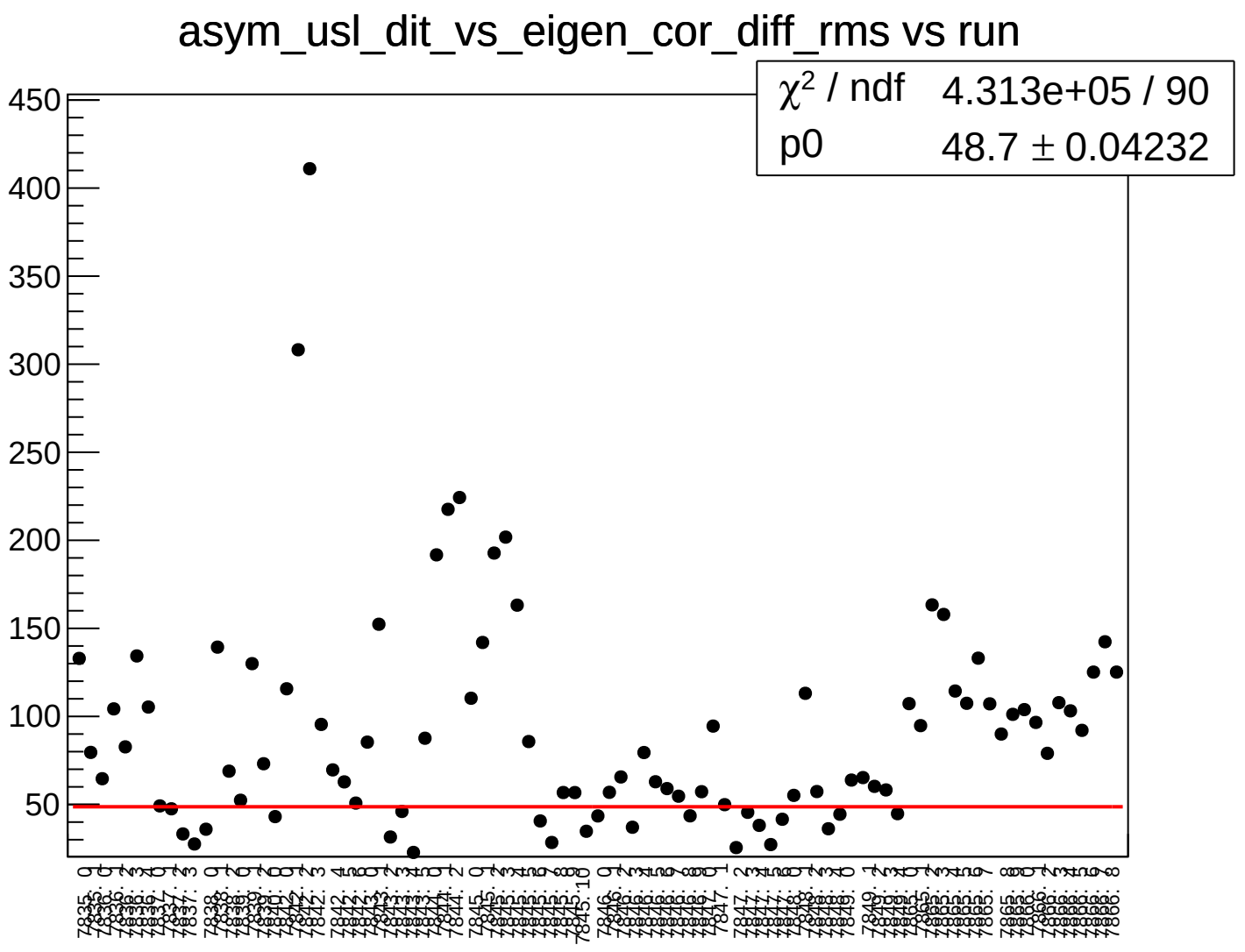

pull1D
Entries 91
Mean −0.06623
Std Dev 1.014

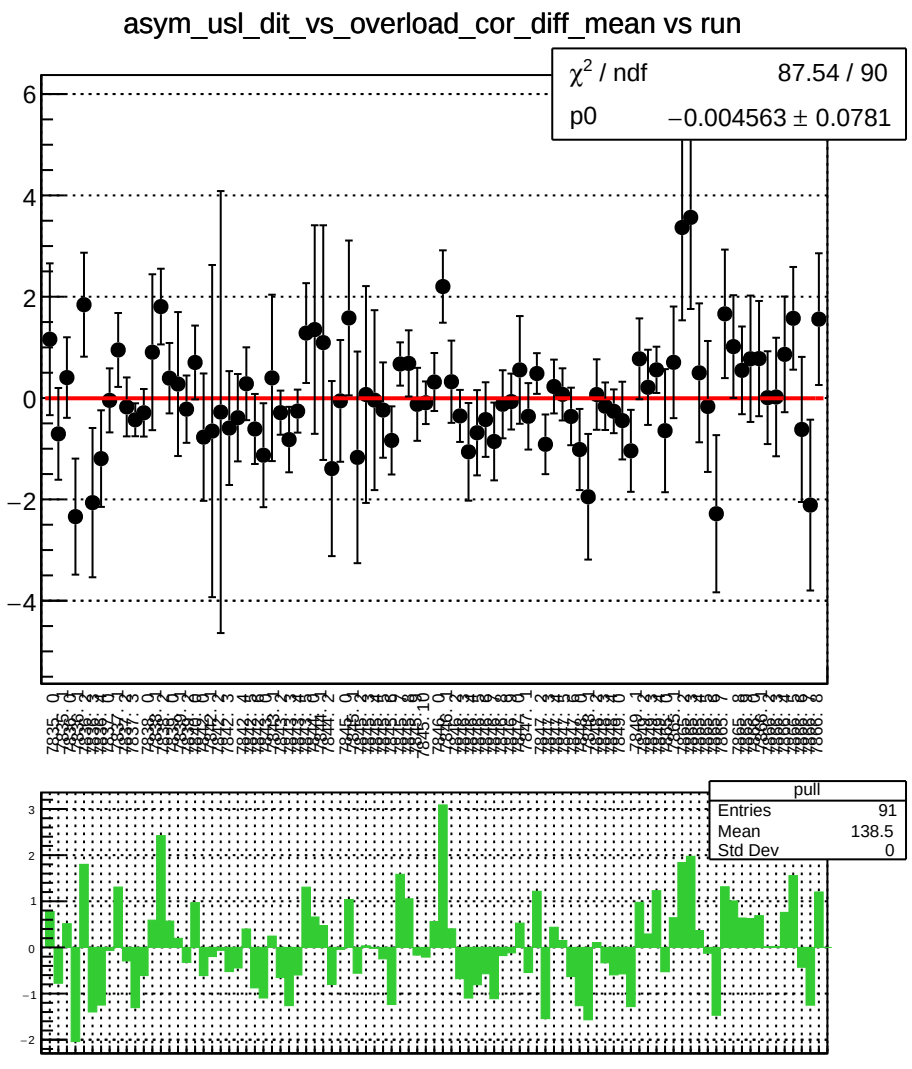

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.889e+05 / 90
p0 6.529e−11 ± 7.459e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

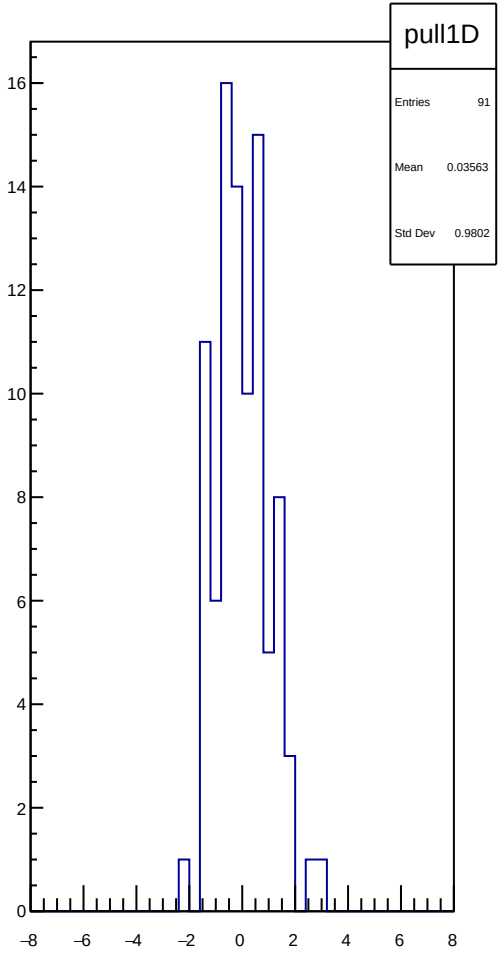

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 87.98 / 90
p0 0.08004 ± 0.05986
pull
Entries 91
Mean 193.6
Std Dev 0
pull1D
Entries 91
Mean 0.02881
Std Dev 0.9828

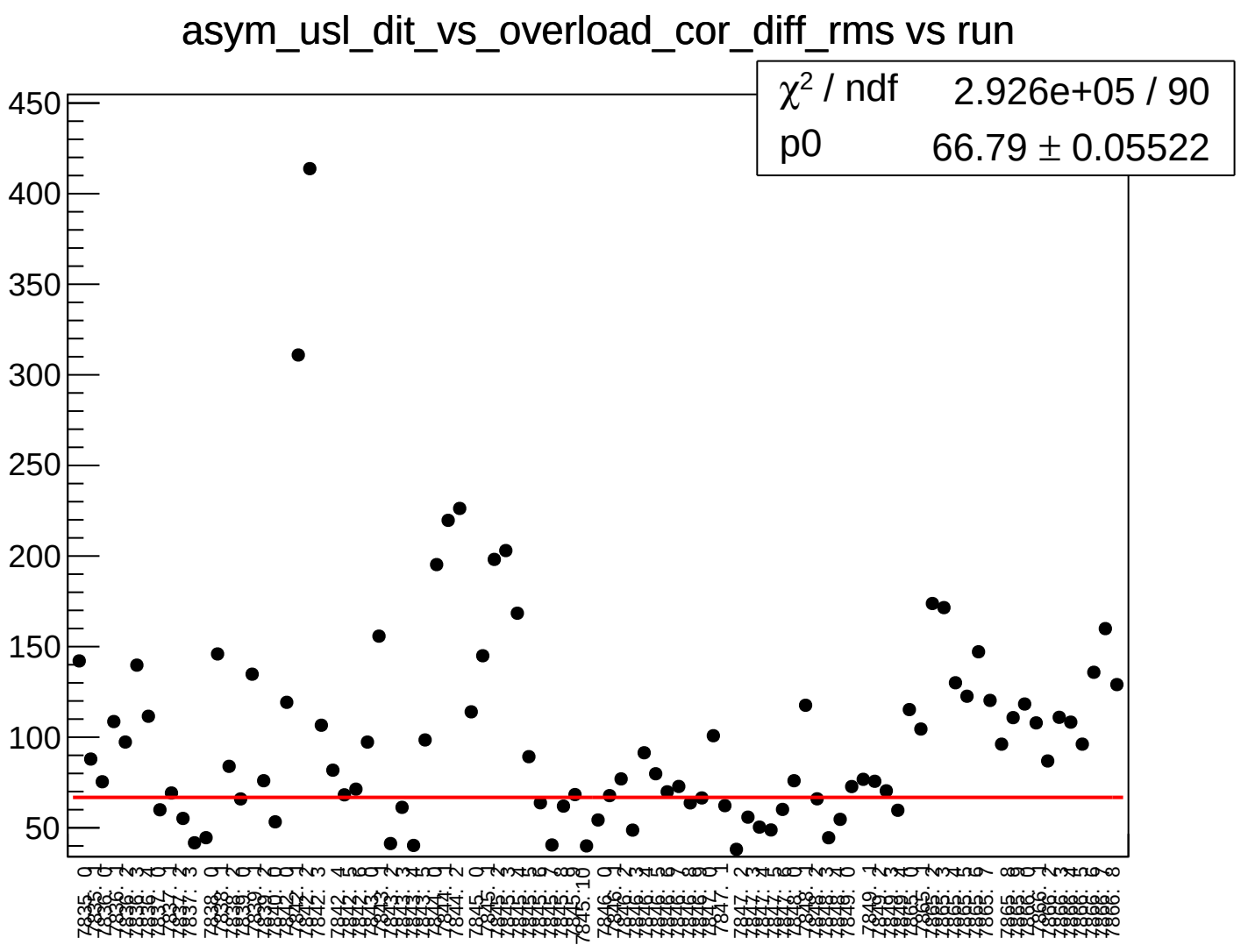

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.313e+05 / 90
p0 48.7 ± 0.04232
450
400
350
300
250
200
150
100
50

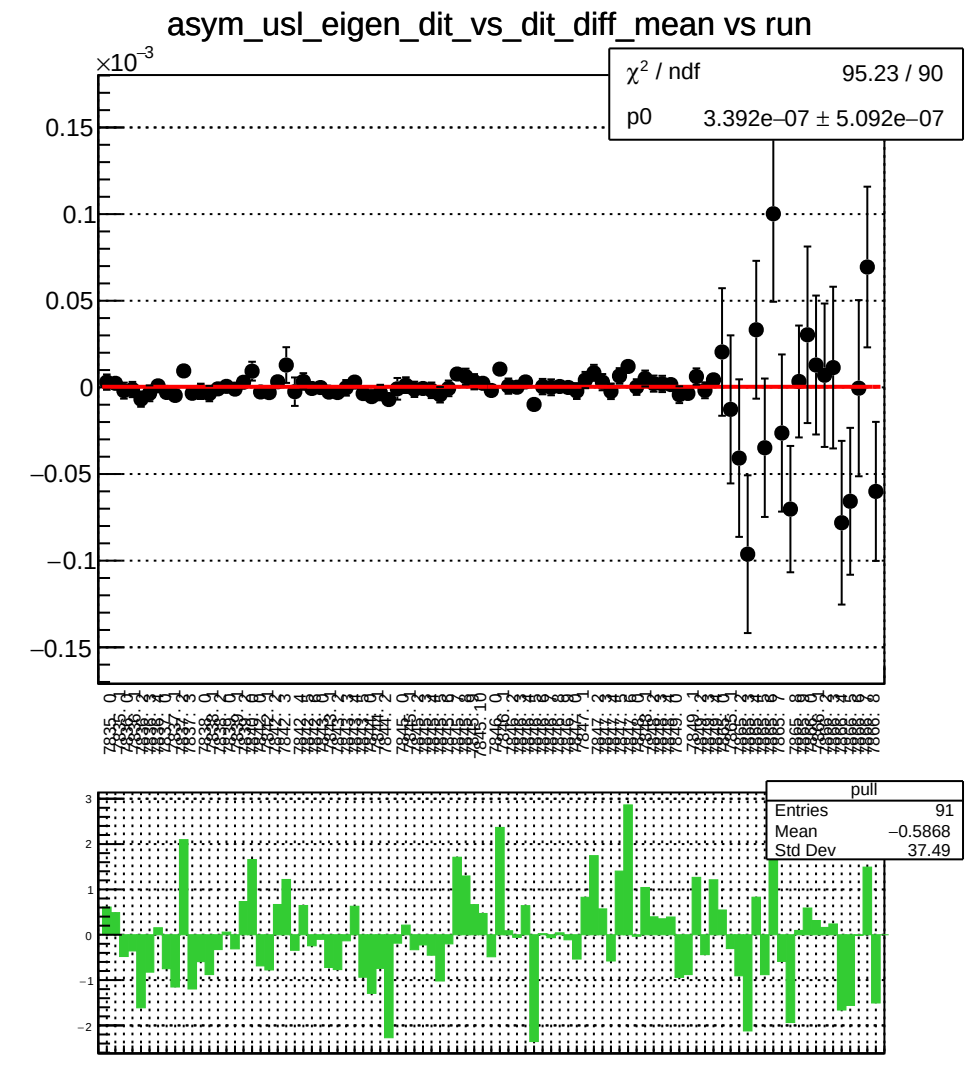

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.98 / 90
p0 0.08004 ± 0.05986
pull
Entries 91
Mean 193.6
Std Dev 0
pull1D
Entries 91
Mean 0.02881
Std Dev 0.9828

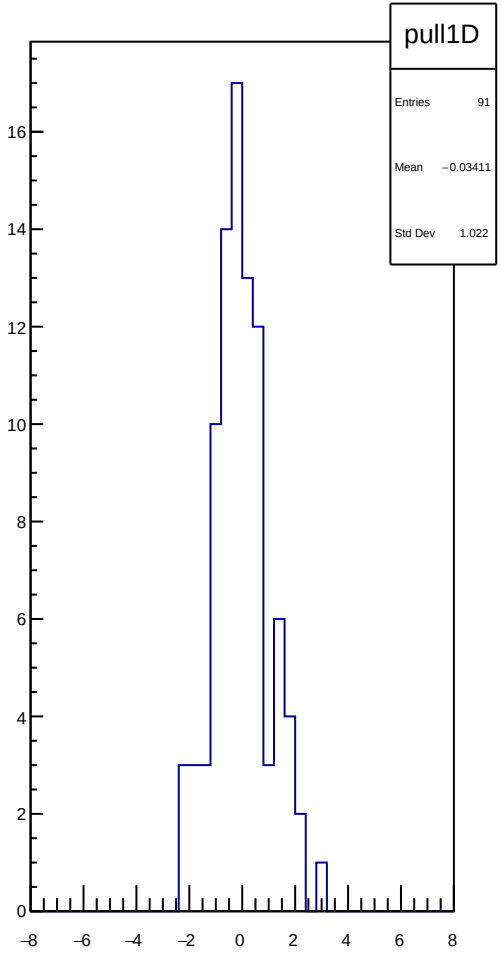

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.313e+05 / 90
p0 48.7 ± 0.04232
450
400
350
300
250
200
150
100
50

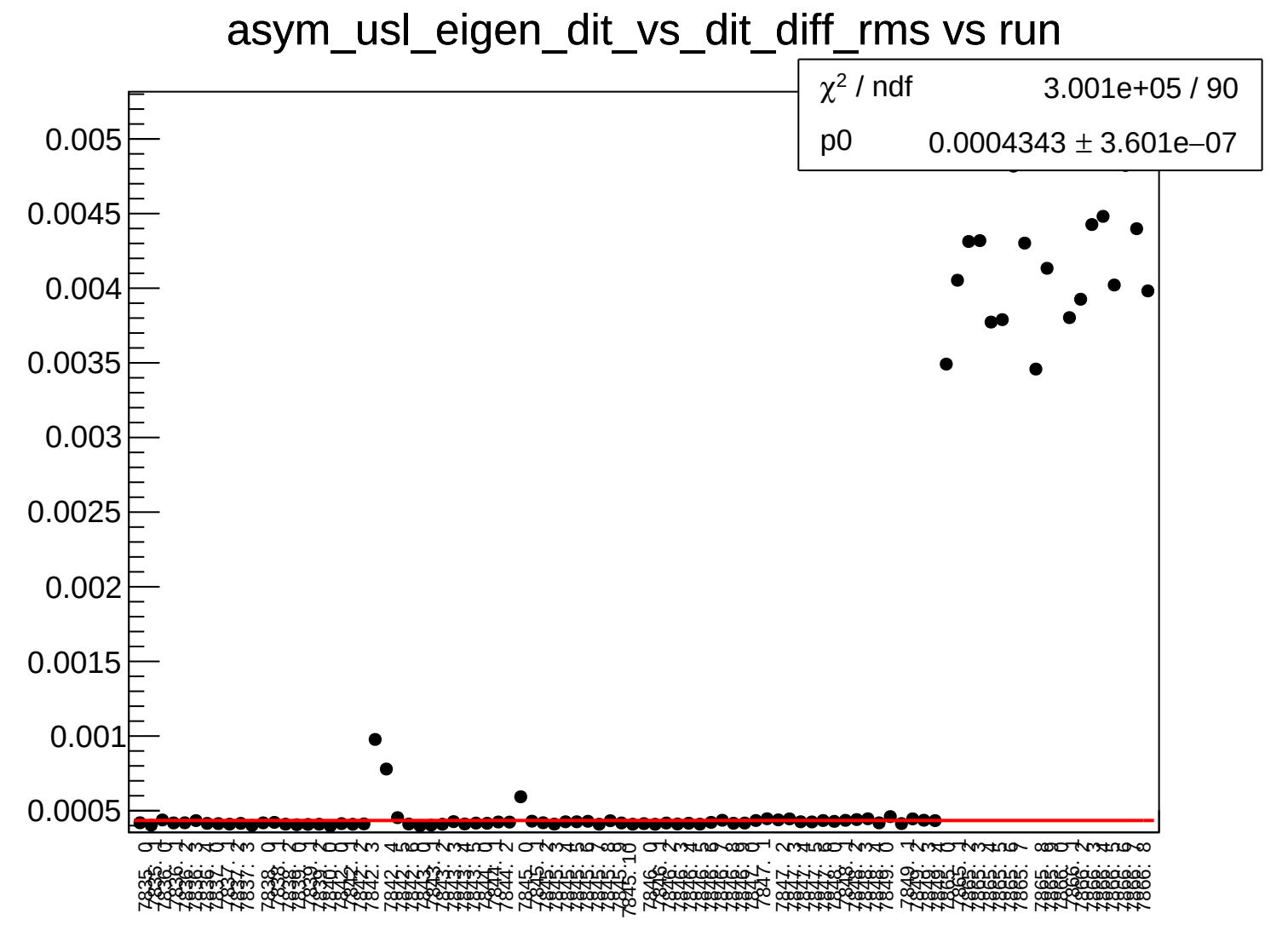

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.54 / 90
p0 −0.004563 ± 0.0781
pull
Entries 91
Mean 138.5
Std Dev 0

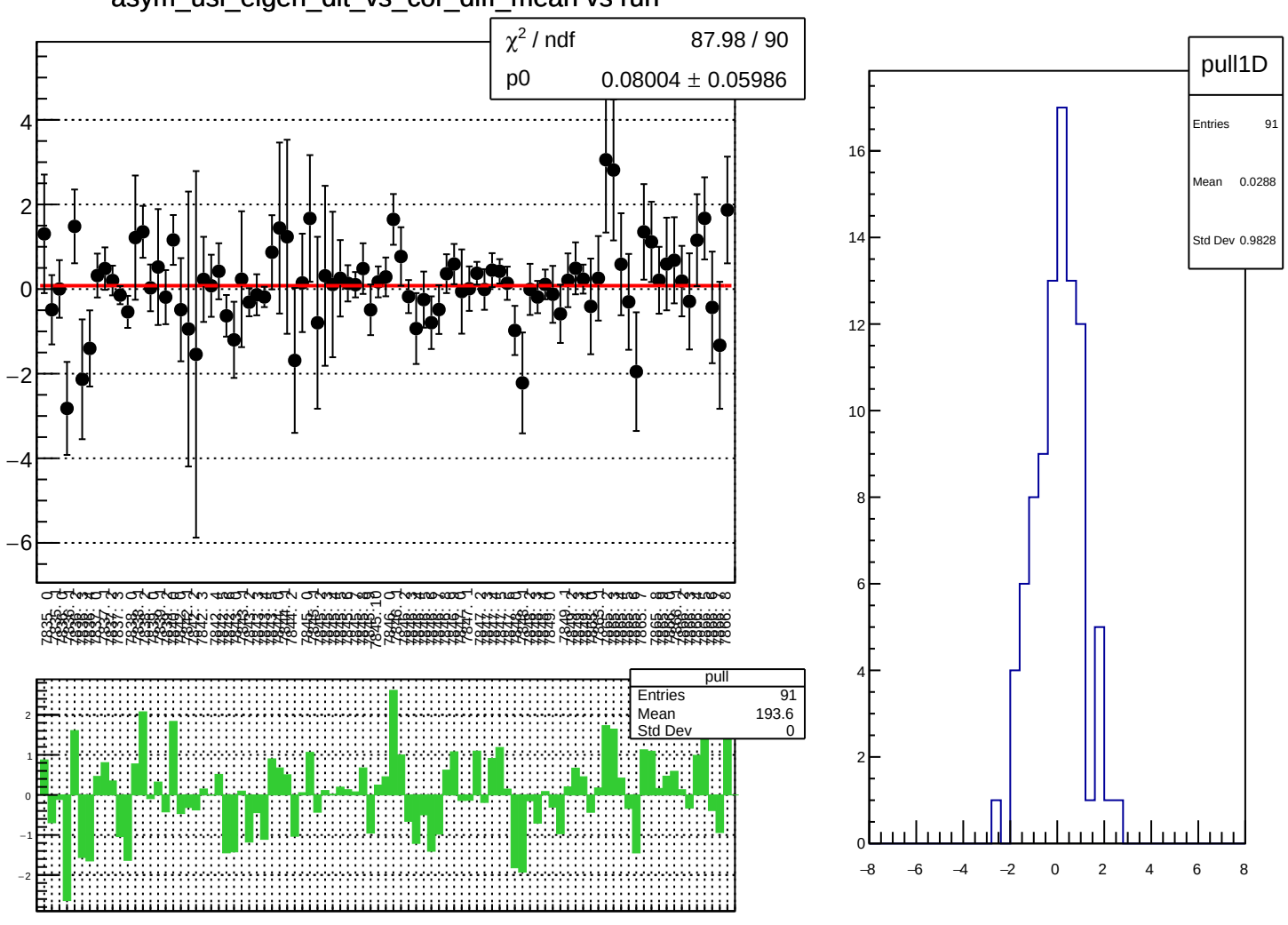

pull1D
Entries 91
Mean 0.03563
Std Dev 0.9802

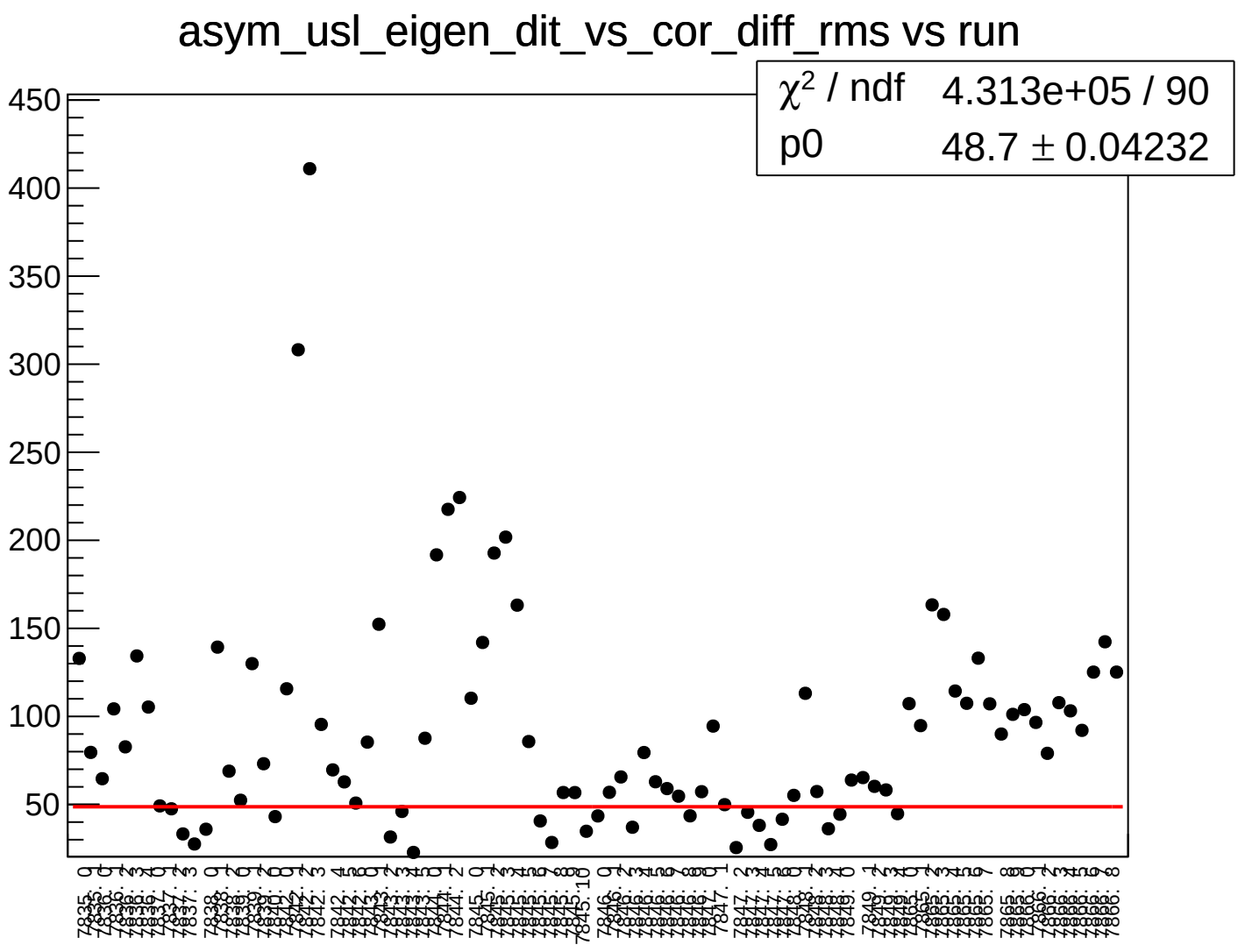

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.926e+05 / 90
p0 66.79 ± 0.05522
450
400
350
300
250
200
150
100
50

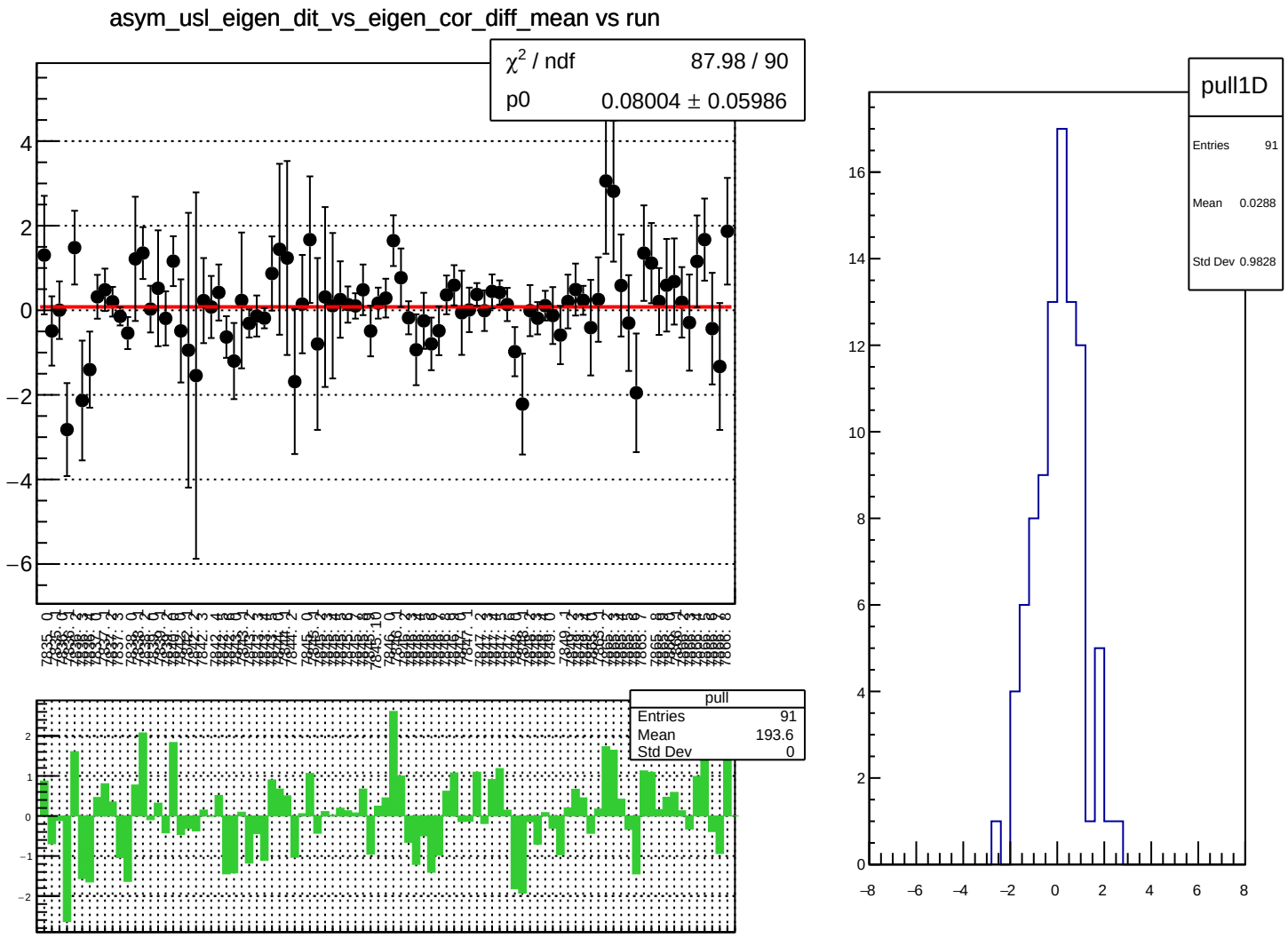

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.23 / 90
p0 3.392e−07 ± 5.092e−07
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −0.5868
Std Dev 37.49
3
2
1
0
−1
−2

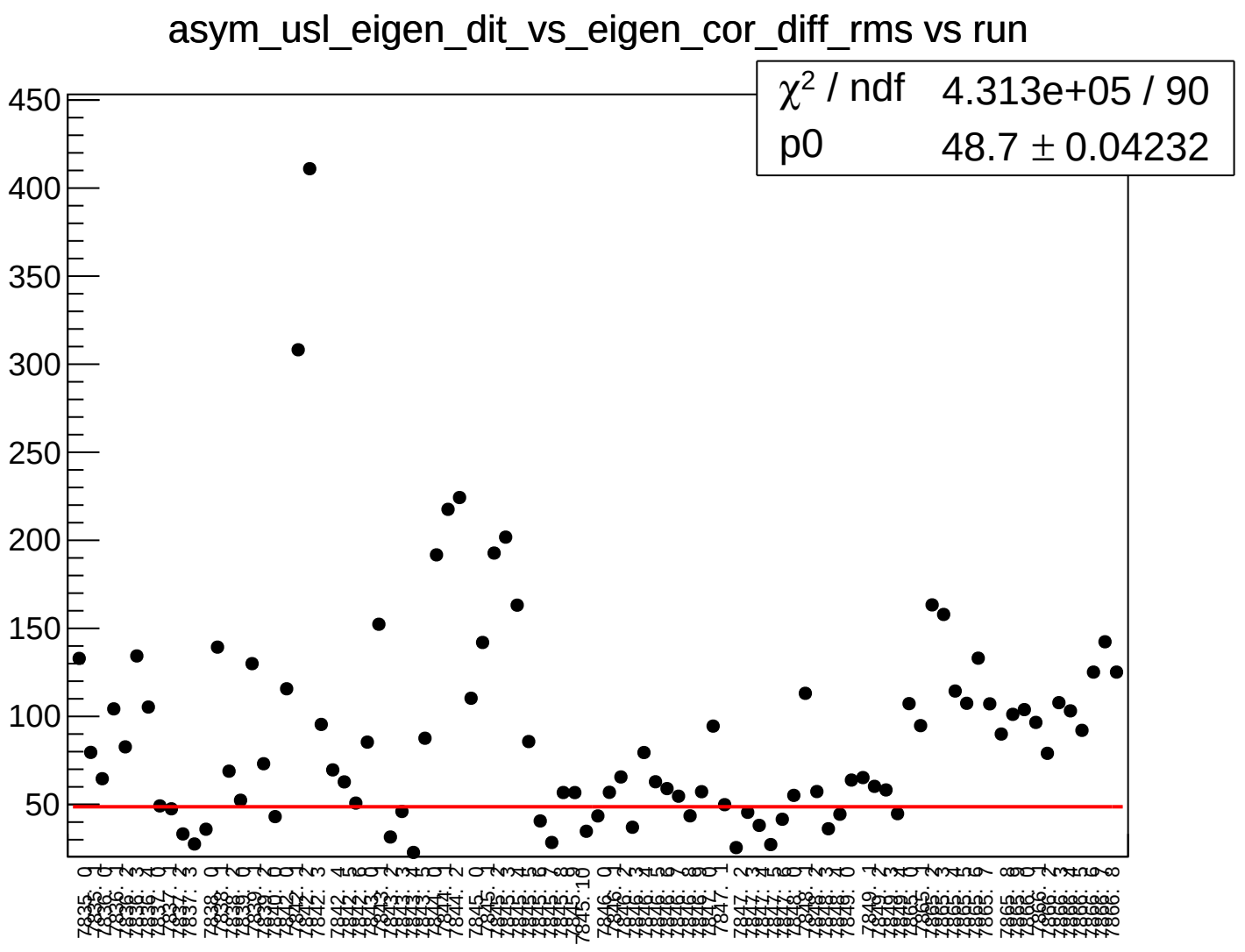

pull1D
Entries 91
Mean −0.03411
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

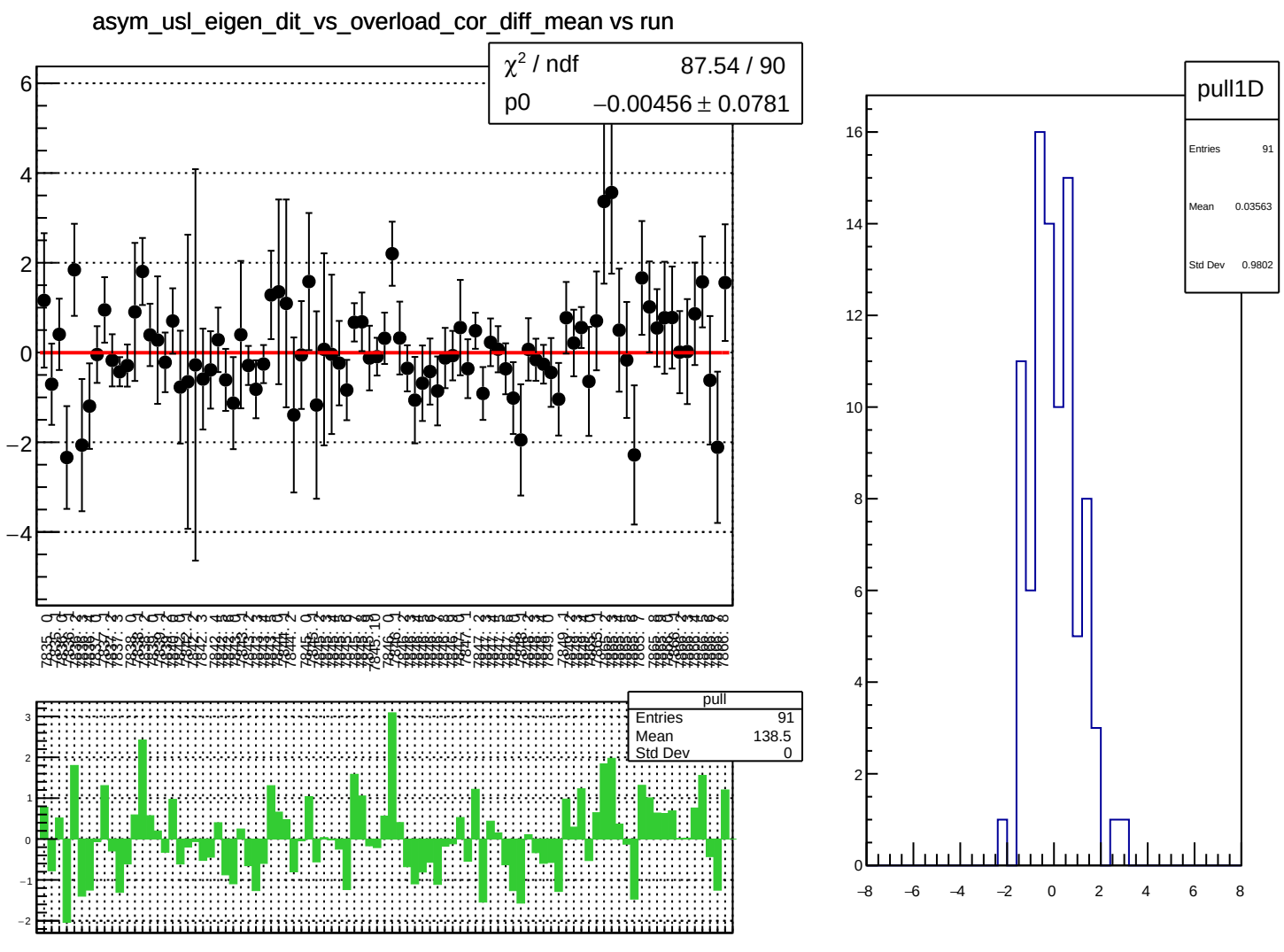

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.001e+05 / 90
p0 0.0004343 ± 3.601e−07
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

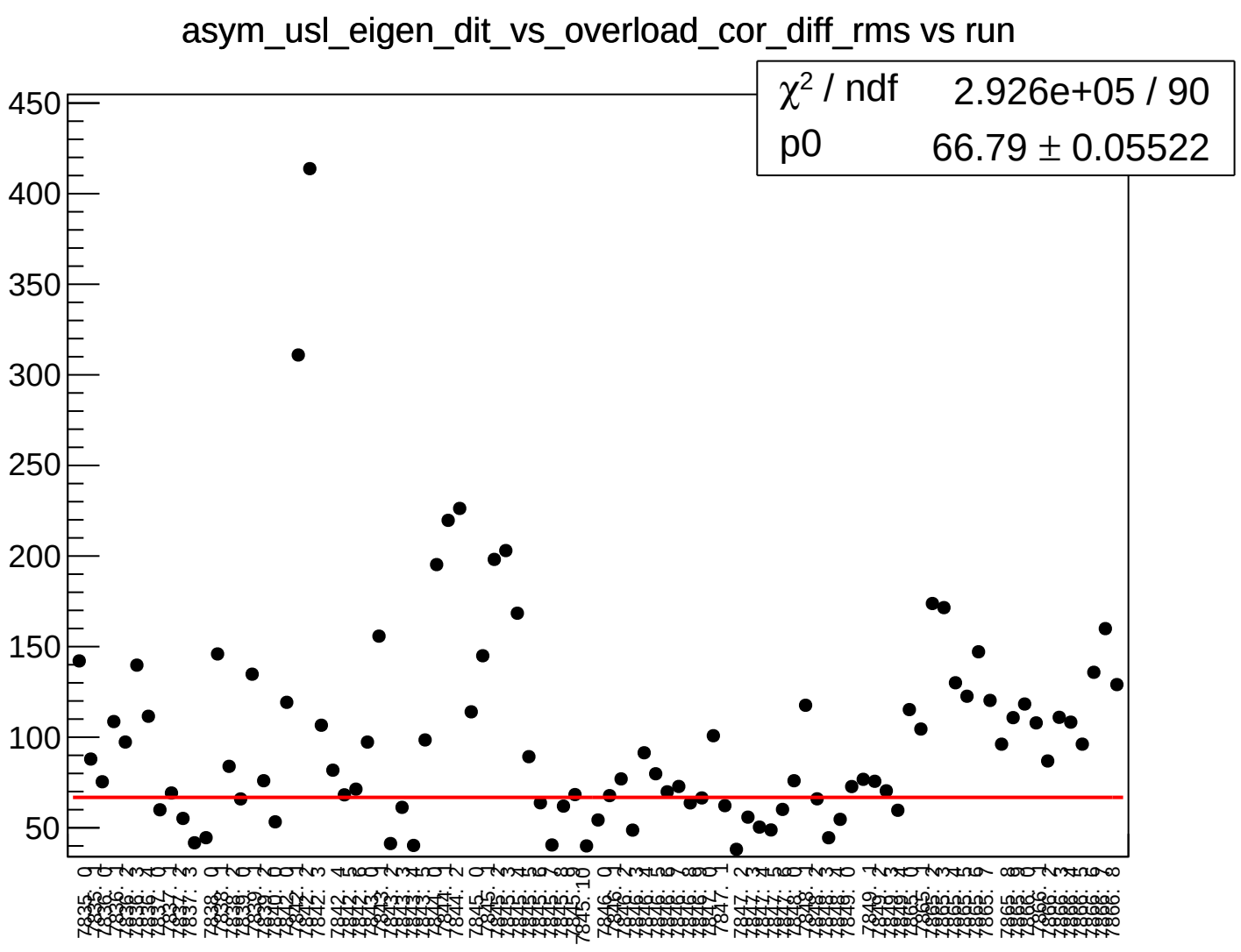

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.98 / 90
p0 0.08004 ± 0.05986
pull
Entries 91
Mean 193.6
Std Dev 0
pull1D
Entries 91
Mean 0.0288
Std Dev 0.9828

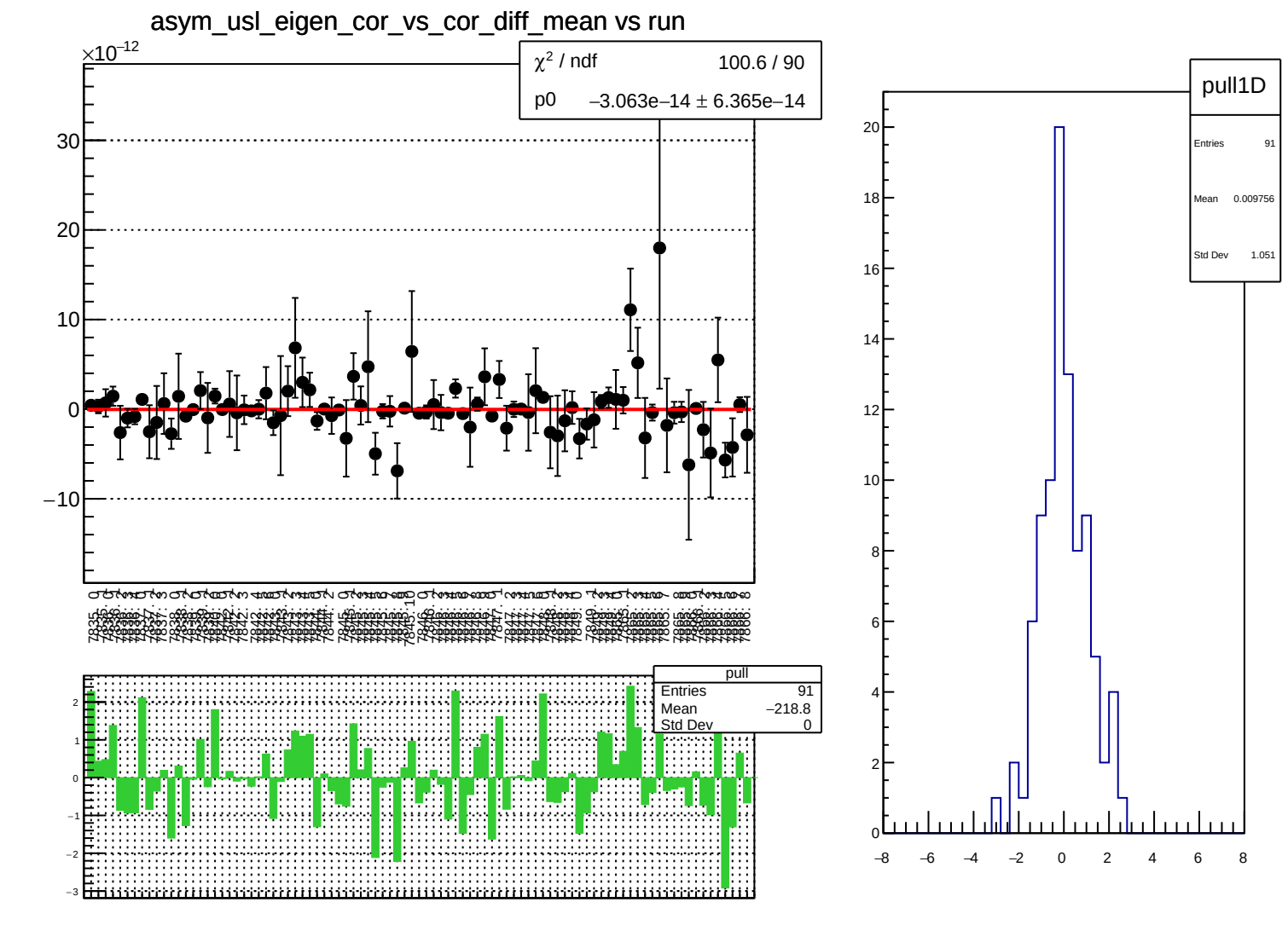

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.313e+05 / 90
p0 48.7 ± 0.04232
450
400
350
300
250
200
150
100
50

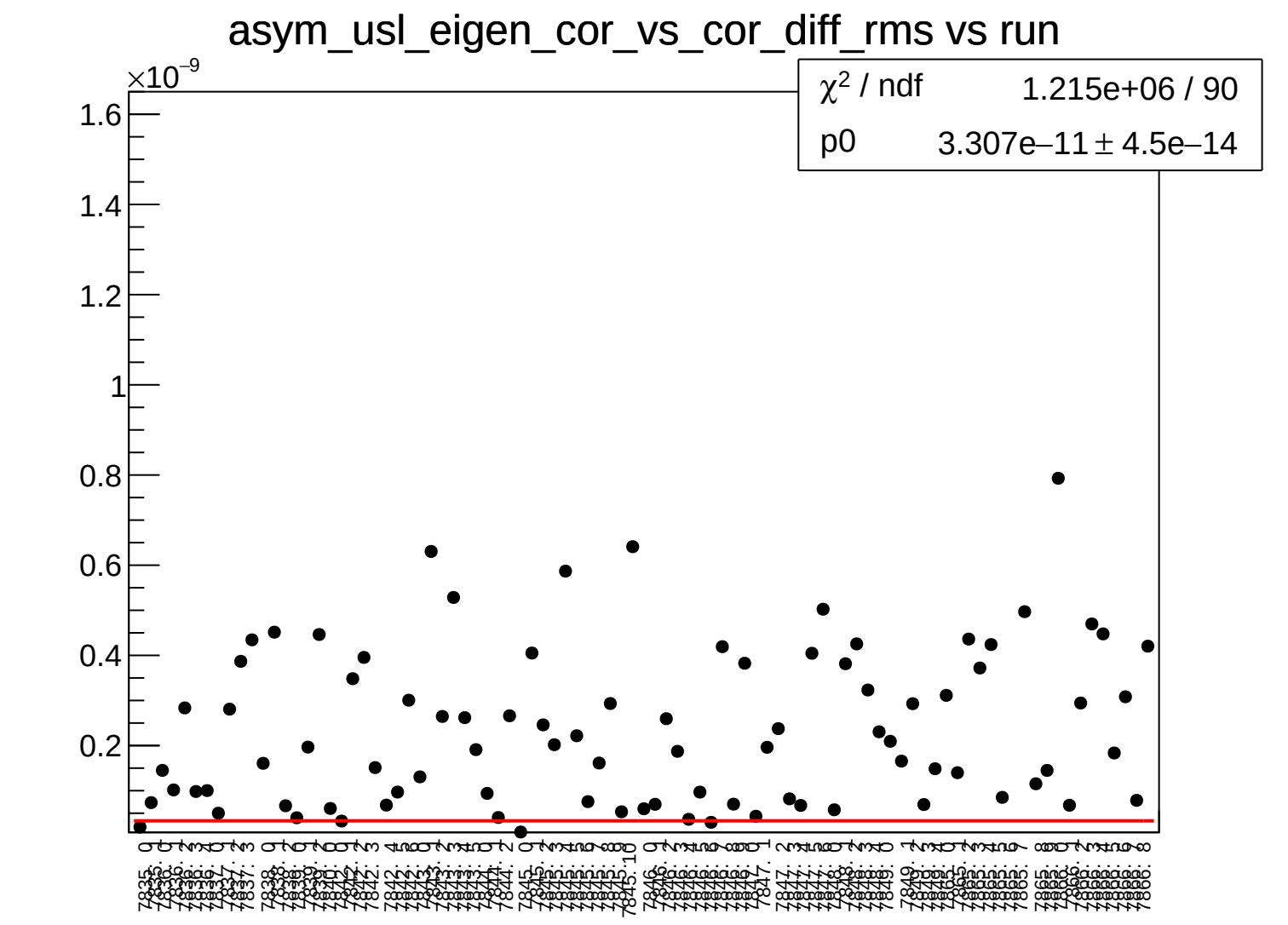

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.98 / 90
p0 0.08004 ± 0.05986
pull
Entries 91
Mean 193.6
Std Dev 0
pull1D
Entries 91
Mean 0.0288
Std Dev 0.9828

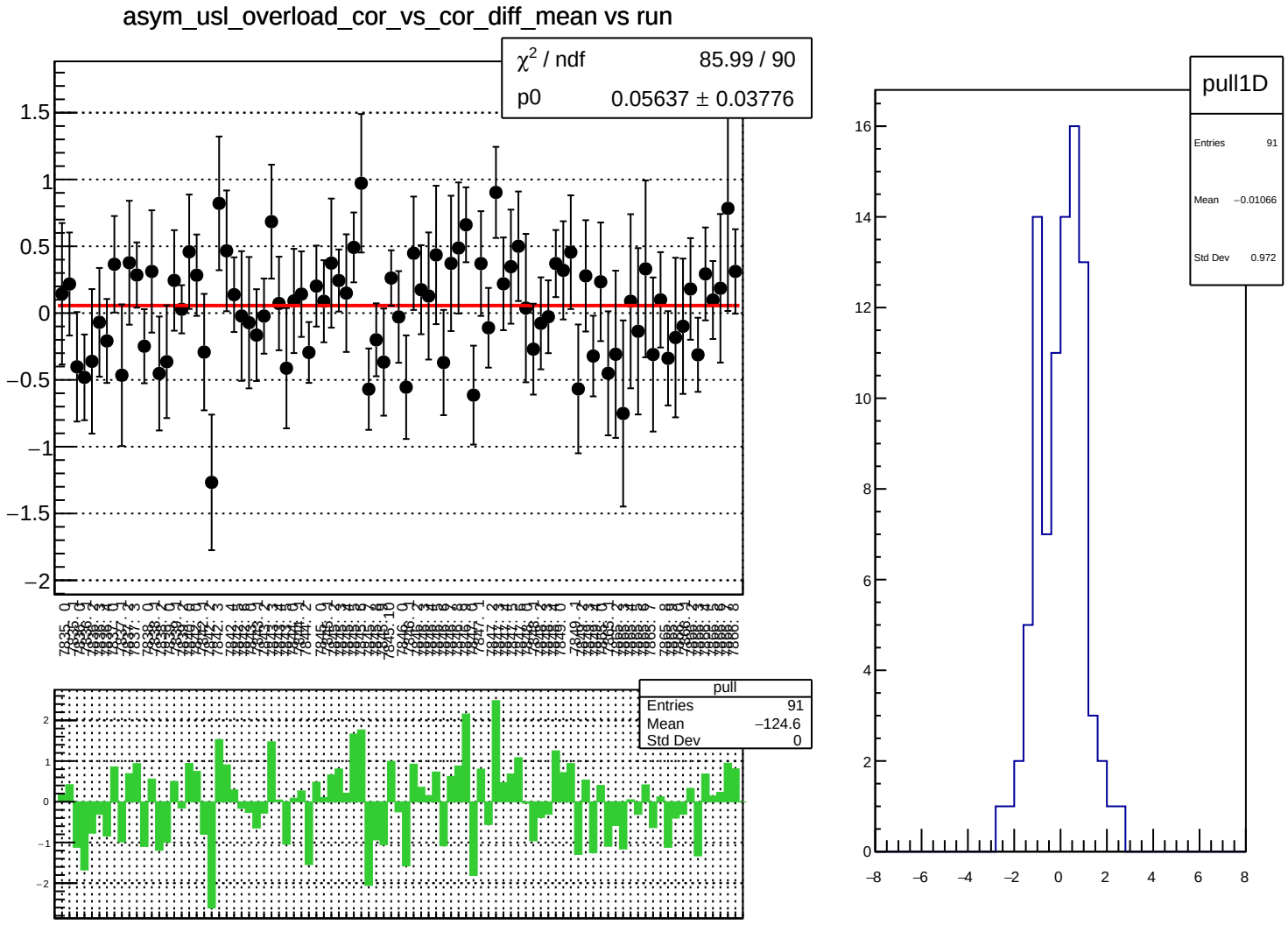

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.313e+05 / 90
p0 48.7 ± 0.04232
450
400
350
300
250
200
150
100
50

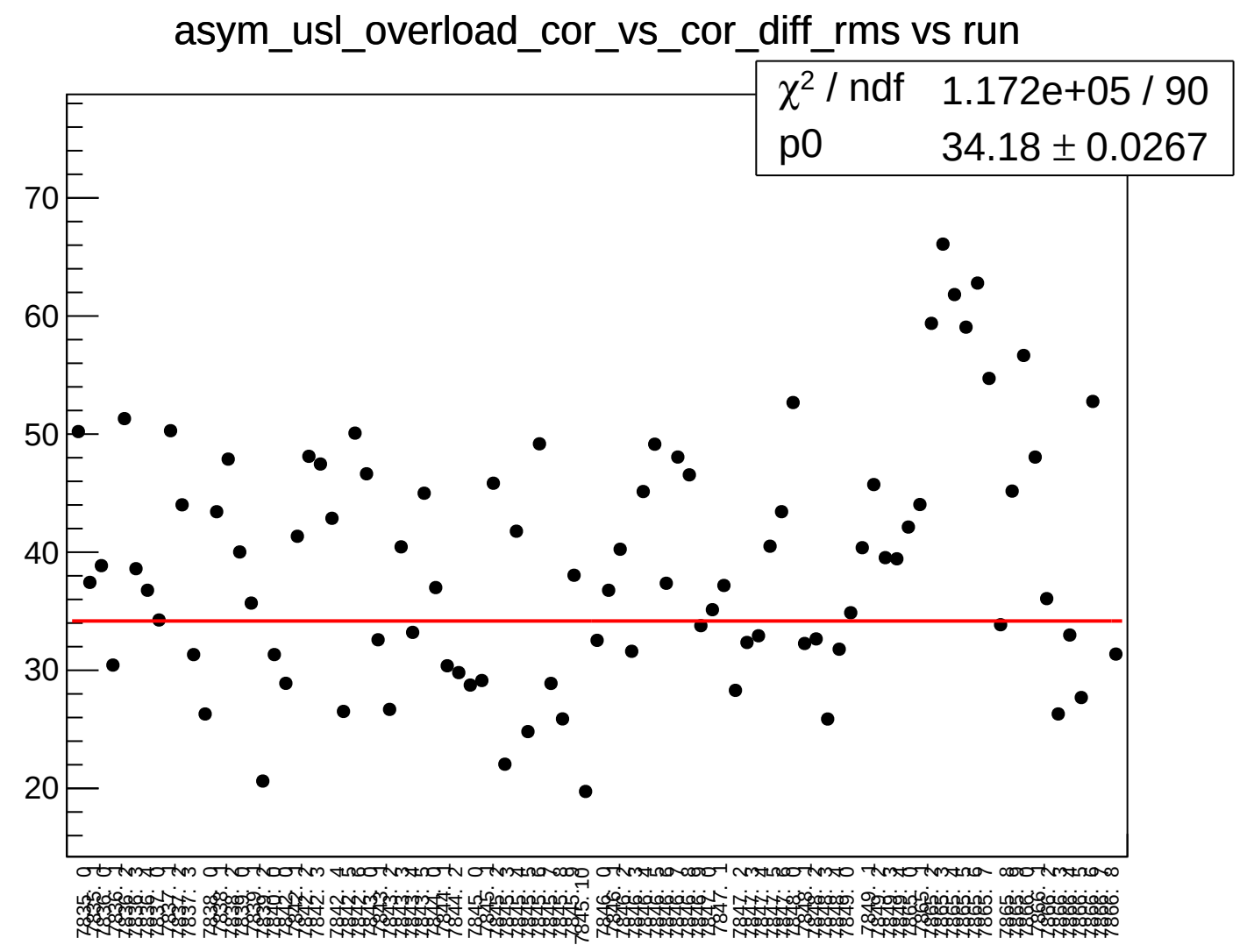

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.54 / 90
p0 −0.00456 ± 0.0781
pull
Entries 91
Mean 138.5
Std Dev 0
pull1D
Entries 91
Mean 0.03563
Std Dev 0.9802

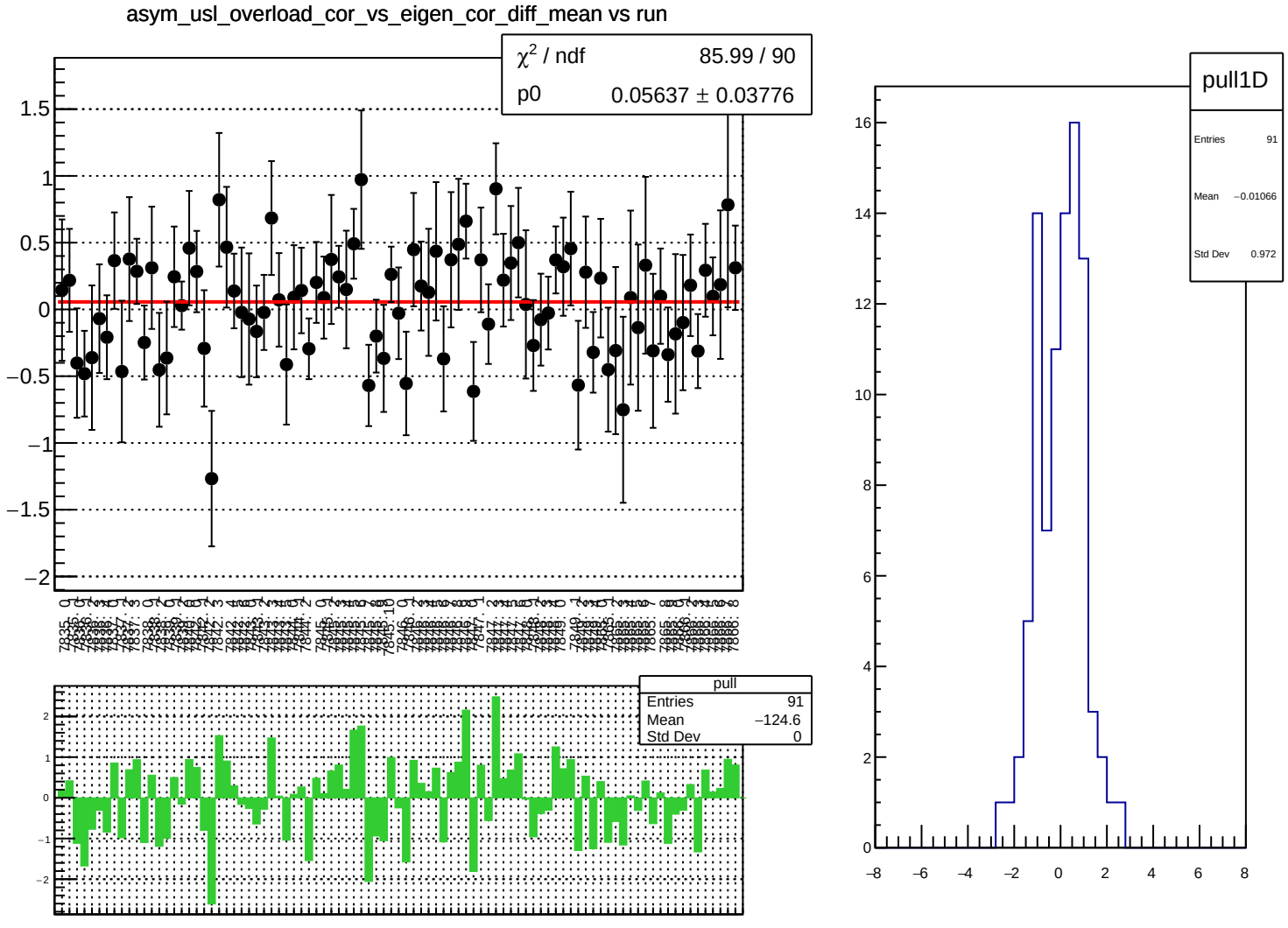

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.926e+05 / 90
p0 66.79 ± 0.05522
450
400
350
300
250
200
150
100
50

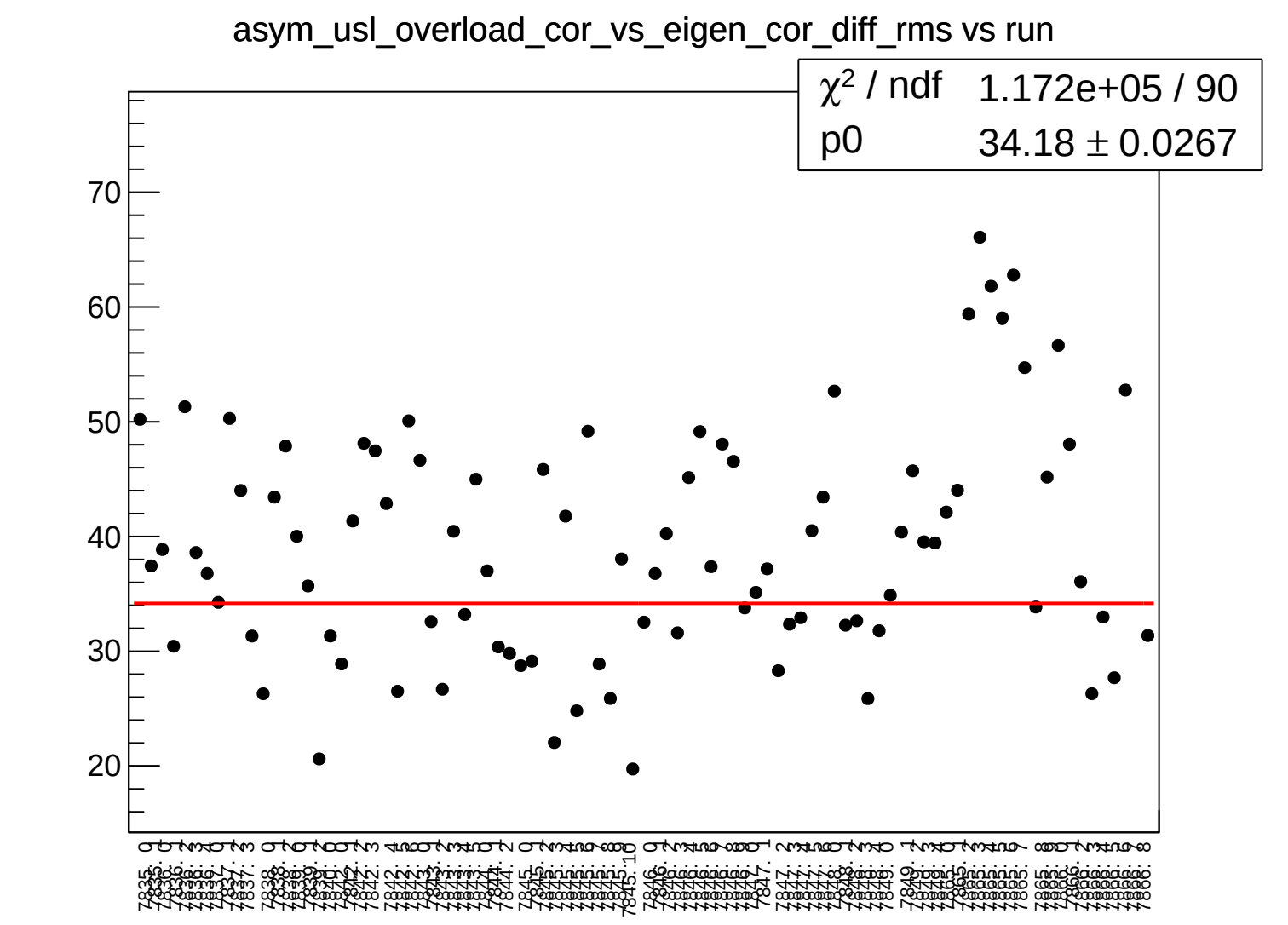

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.6 / 90
p0 −3.063e−14 ± 6.365e−14
30
20
10
0
−10
pull
Entries 91
Mean −218.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.009756
Std Dev 1.051
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

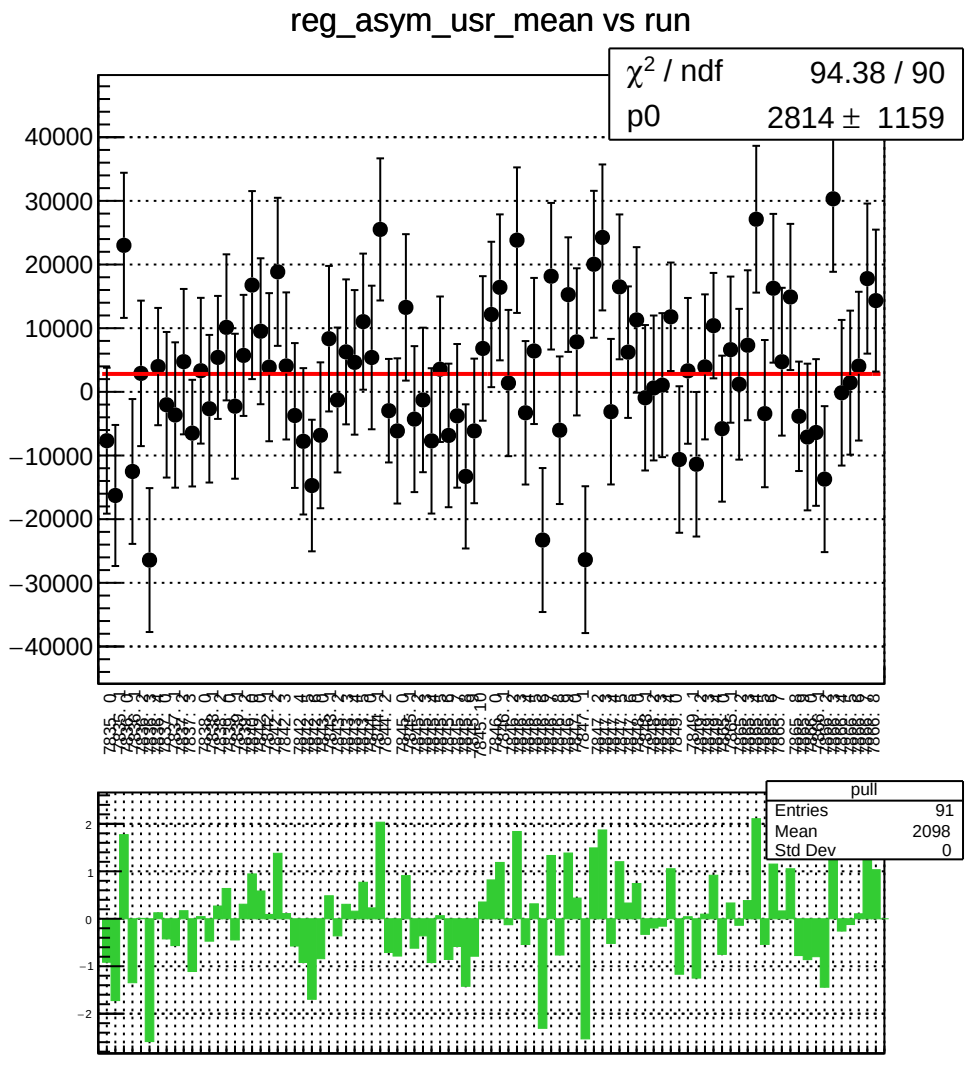

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.215e+06 / 90
p0 3.307e−11 ± 4.5e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

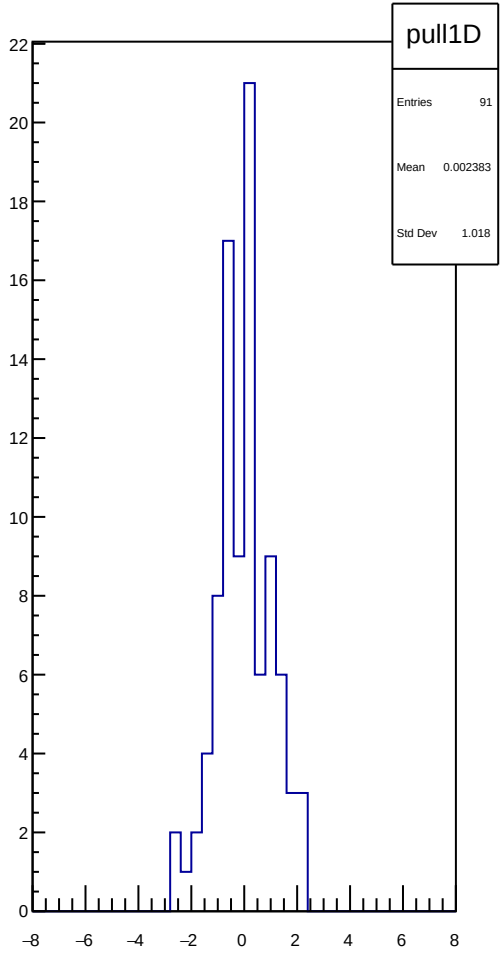

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 85.99 / 90
p0 0.05637 ± 0.03776
pull
Entries 91
Mean −124.6
Std Dev 0
pull1D
Entries 91
Mean −0.01066
Std Dev 0.972

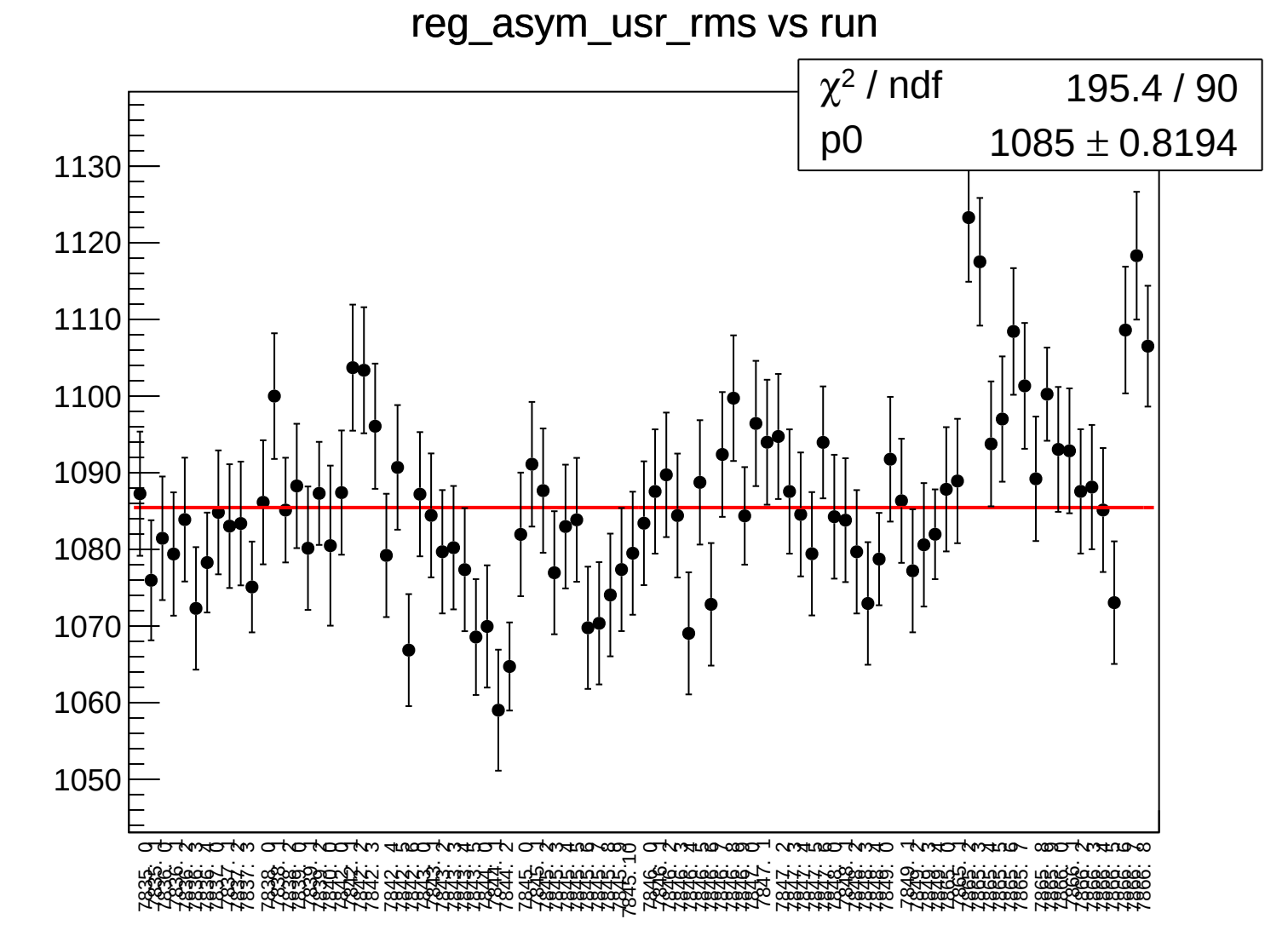

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.172e+05 / 90
p0 34.18 ± 0.0267
70
60
50
40
30
20

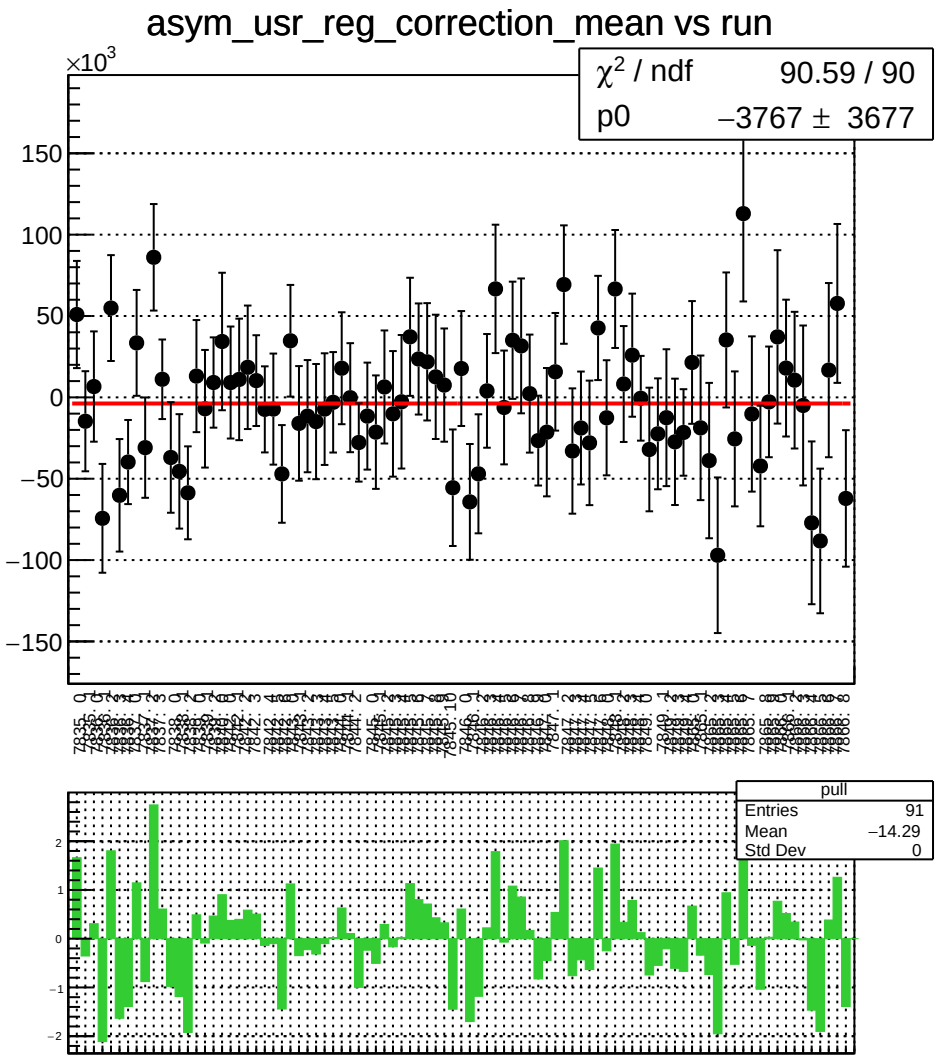

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.99 / 90
p0 0.05637 ± 0.03776
pull
Entries 91
Mean −124.6
Std Dev 0
pull1D
Entries 91
Mean −0.01066
Std Dev 0.972

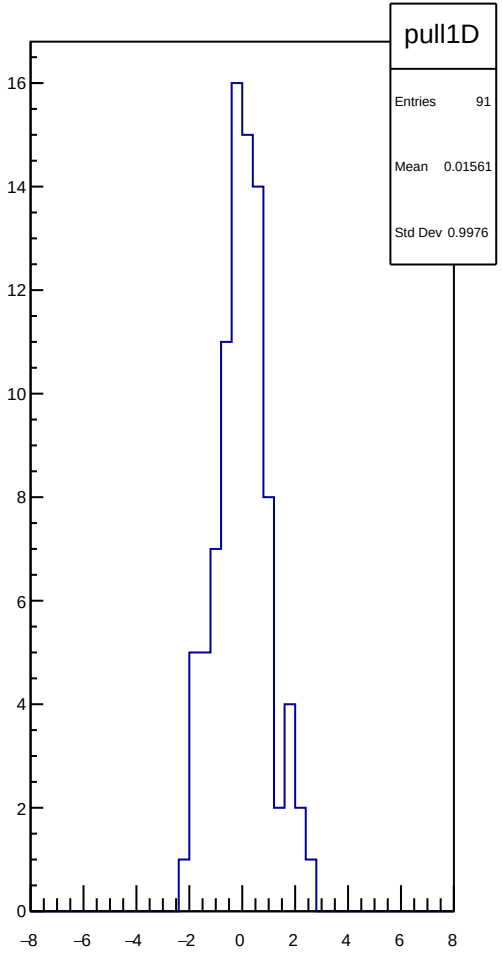

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.172e+05 / 90
p0 34.18 ± 0.0267
70
60
50
40
30
20

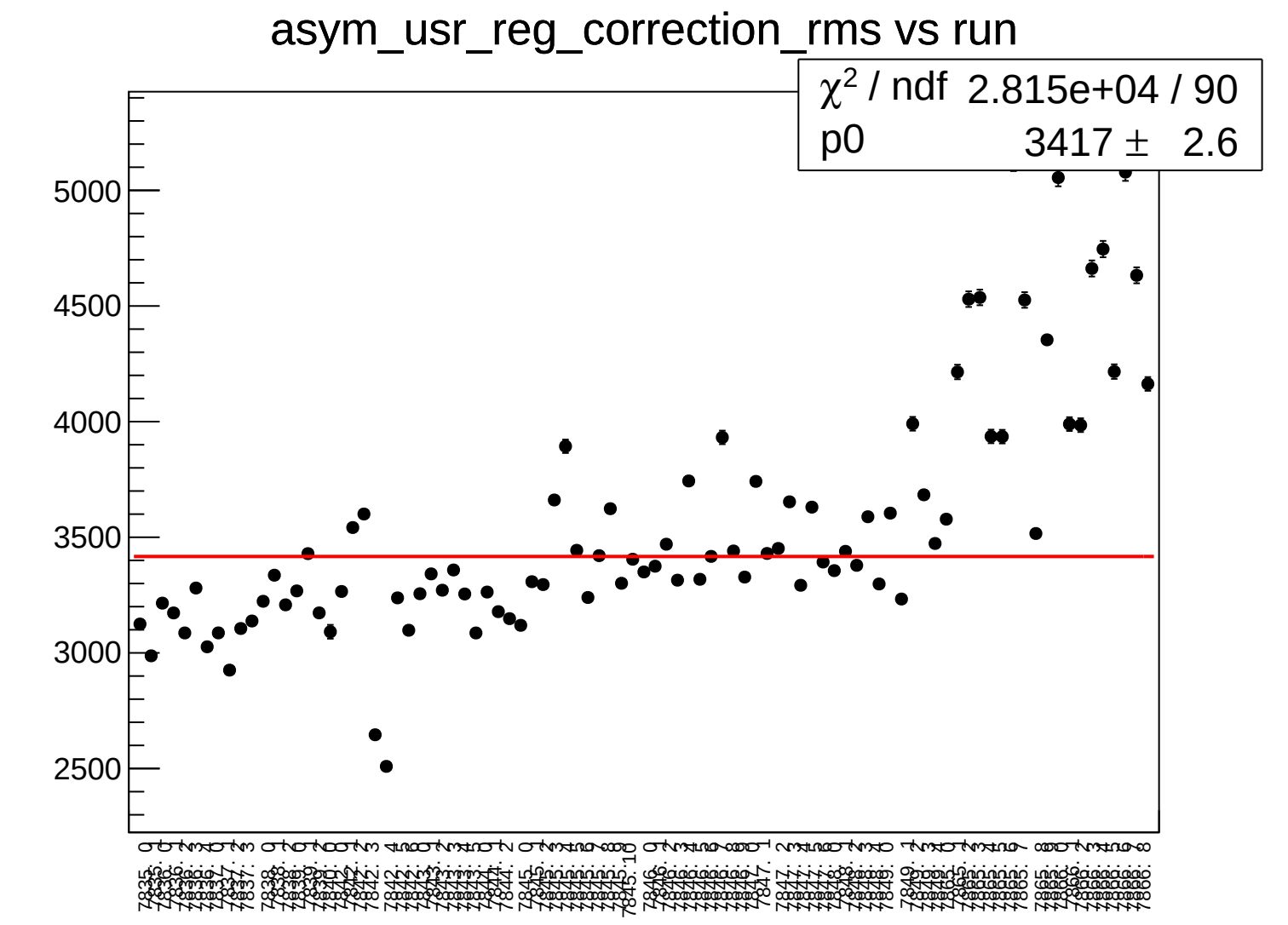

reg_asym_usr_mean vs run
χ² / ndf 94.38 / 90
p0 2814 ± 1159
pull
Entries 91
Mean 2098
Std Dev 0

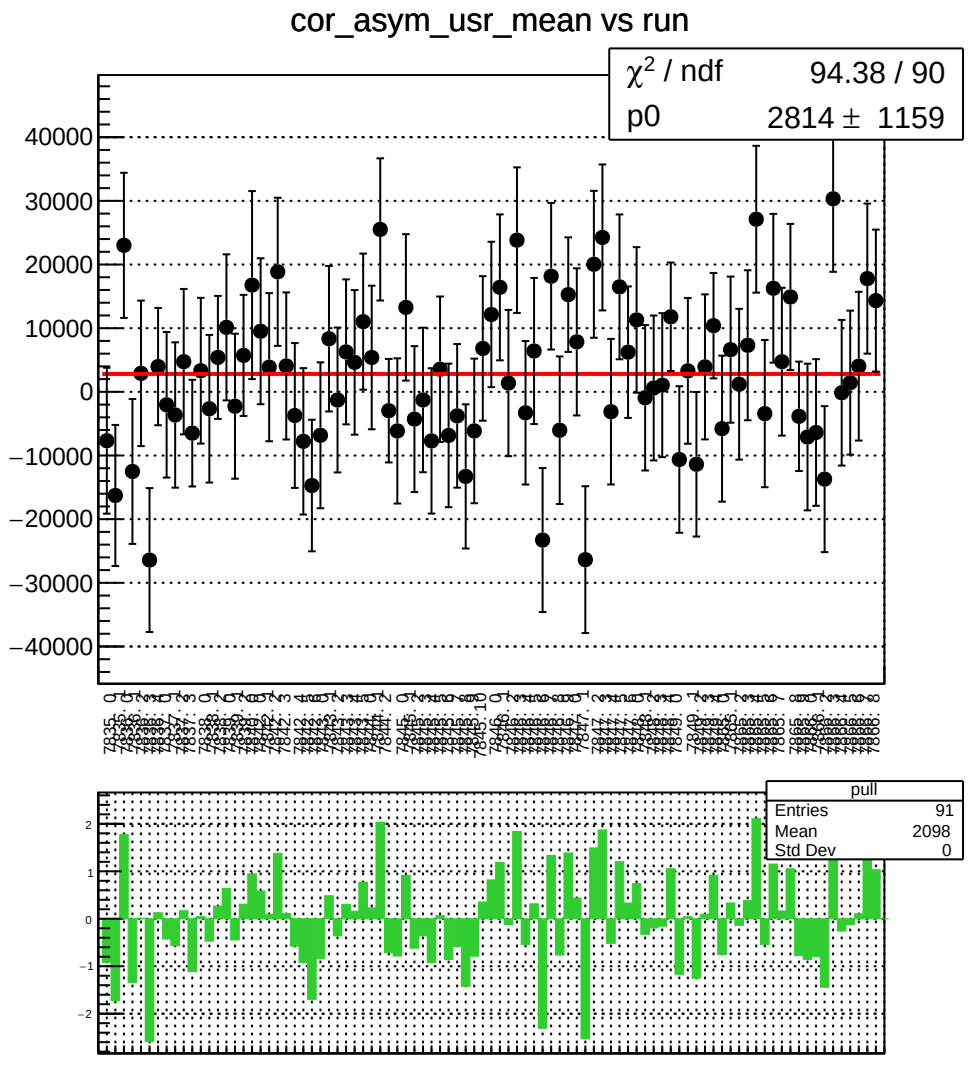

pull1D
Entries 91
Mean 0.002383
Std Dev 1.018

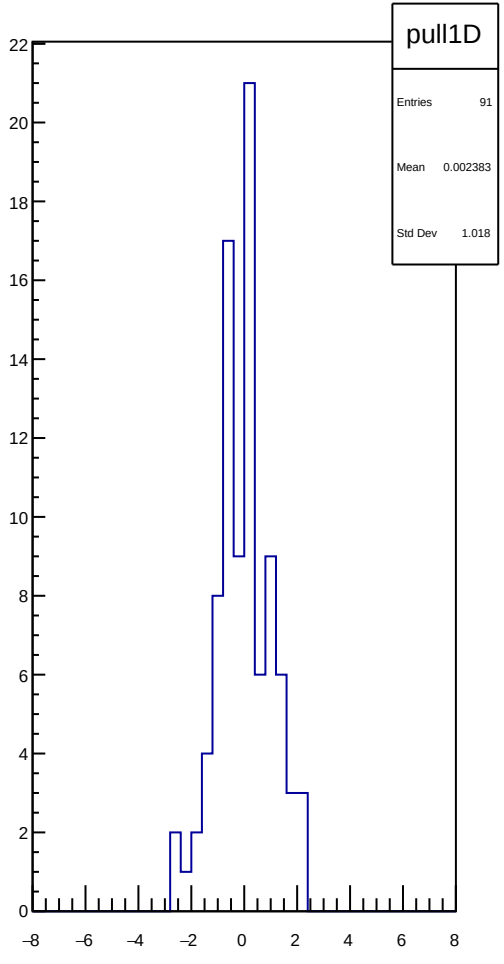

reg_asym_usr_rms vs run
χ^2 / ndf 195.4 / 90
p0 1085 ± 0.8194
1130
1120
1110
1100
1090
1080
1070
1060
1050

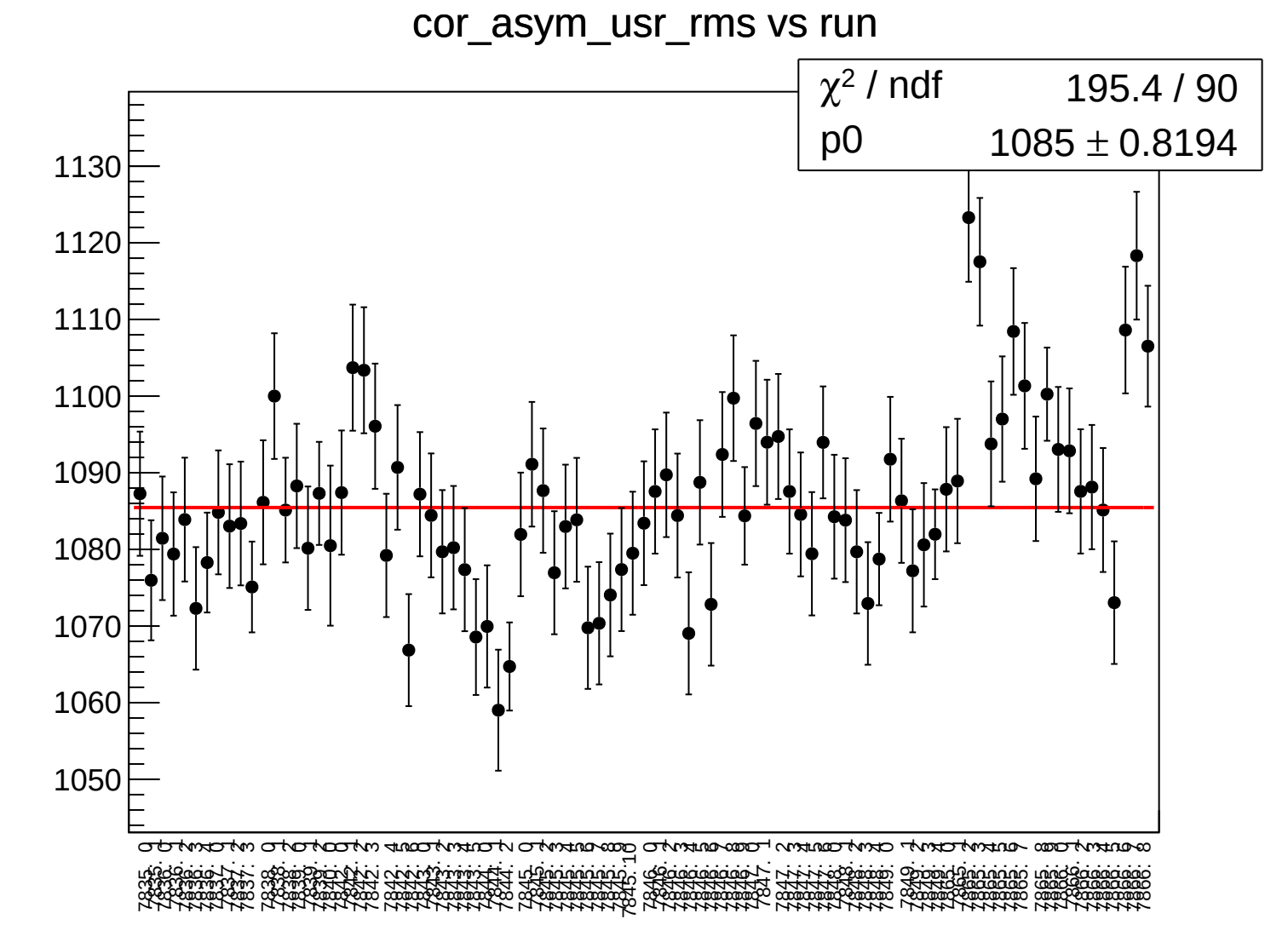

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 90.59 / 90
p0 −3767 ± 3677
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −14.29
Std Dev 0
2
1
0
−1
−2

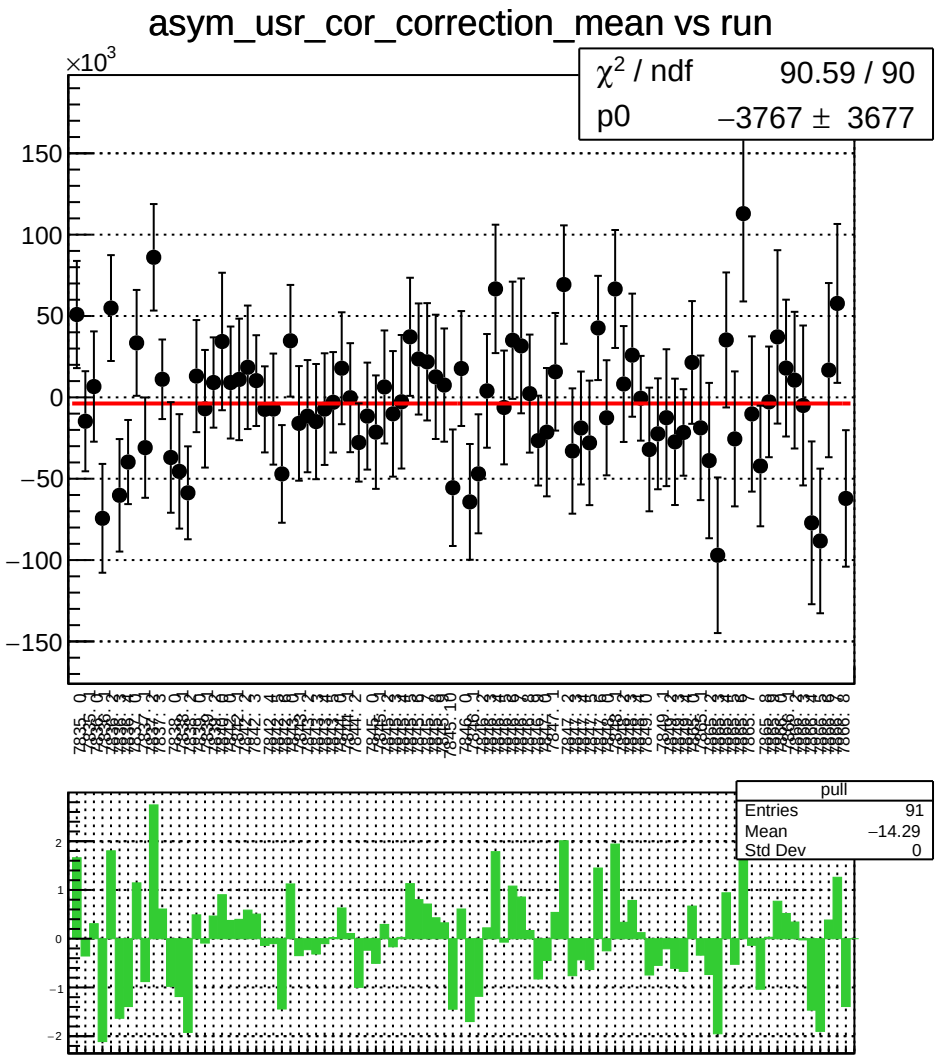

pull1D
Entries 91
Mean 0.01561
Std Dev 0.9976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

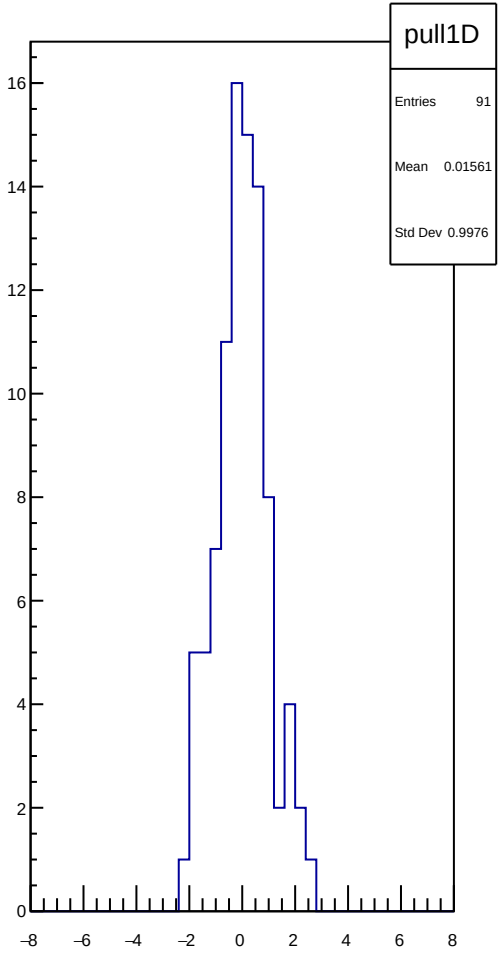

asym_usr_reg_correction_rms vs run
χ² / ndf 2.815e+04 / 90
p0 3417 ± 2.6
5000
4500
4000
3500
3000
2500

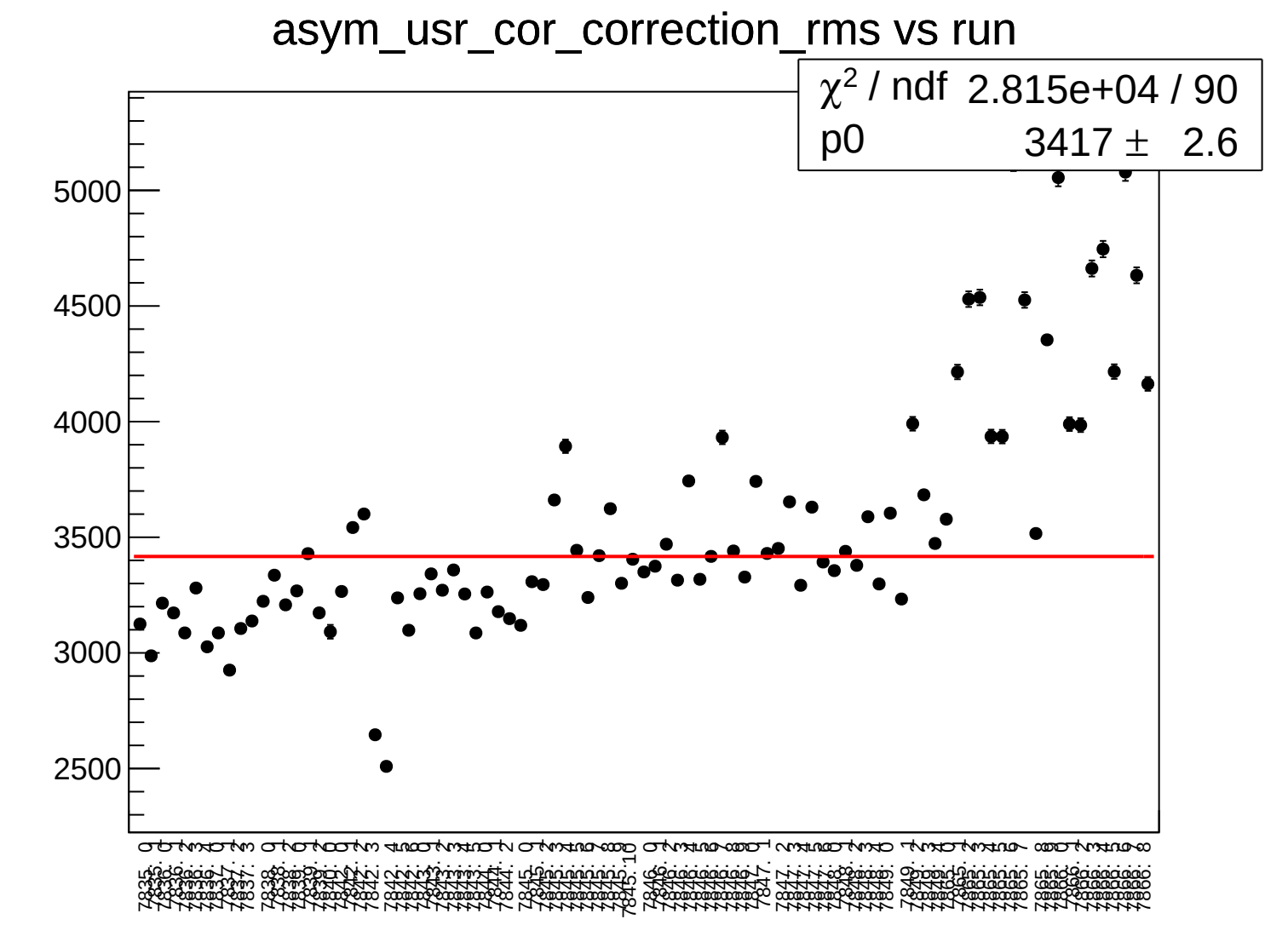

cor_asym_usr_mean vs run
χ² / ndf 94.38 / 90
p0 2814 ± 1159
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 2098
Std Dev 0
2
1
0
−1
−2

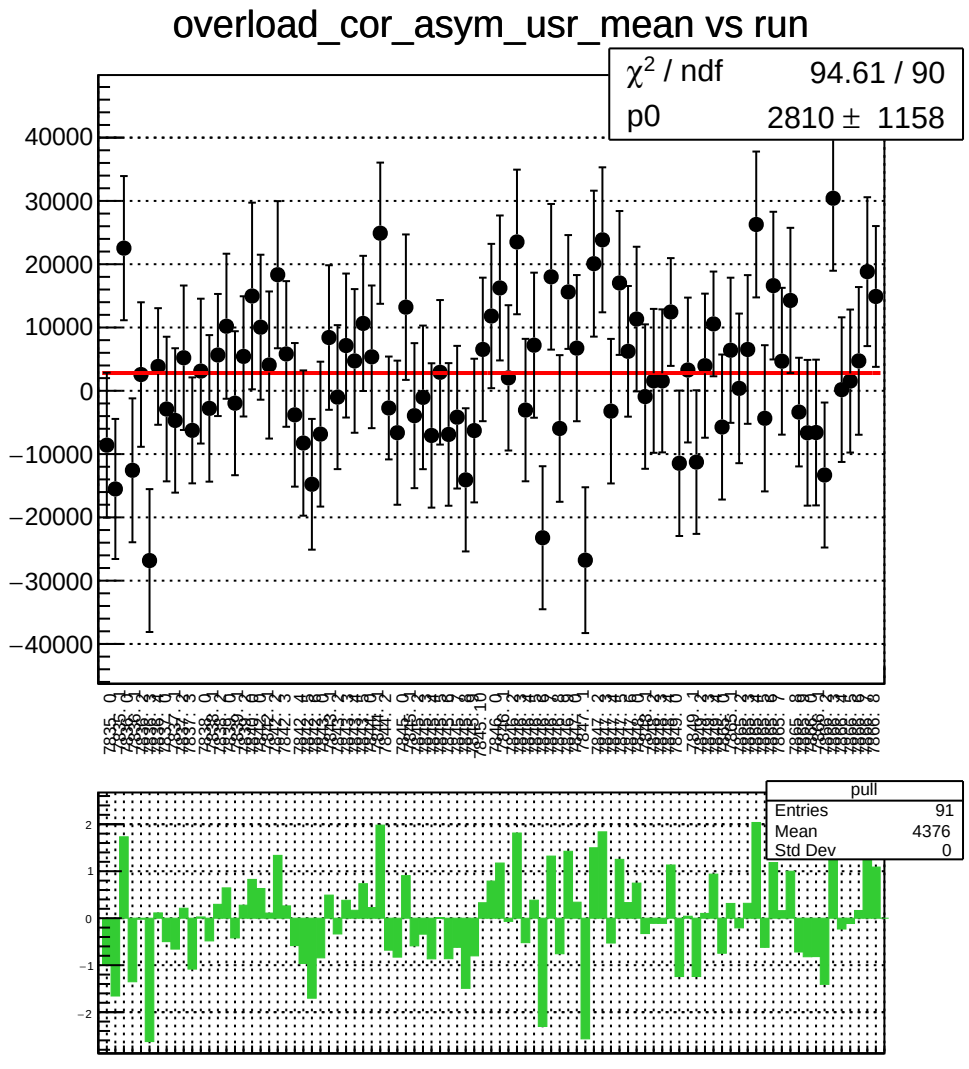

pull1D
Entries 91
Mean 0.002383
Std Dev 1.018
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

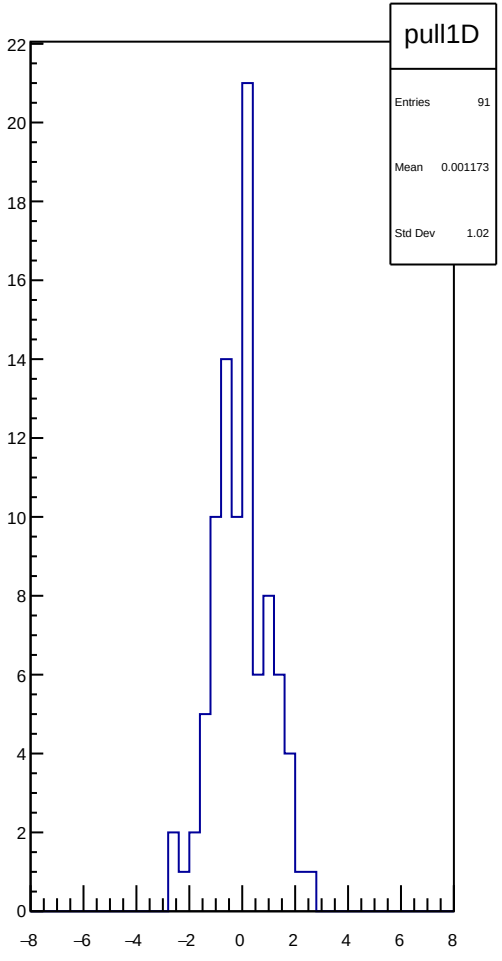

cor_asym_usr_rms vs run
χ² / ndf 195.4 / 90
p0 1085 ± 0.8194
1130
1120
1110
1100
1090
1080
1070
1060
1050

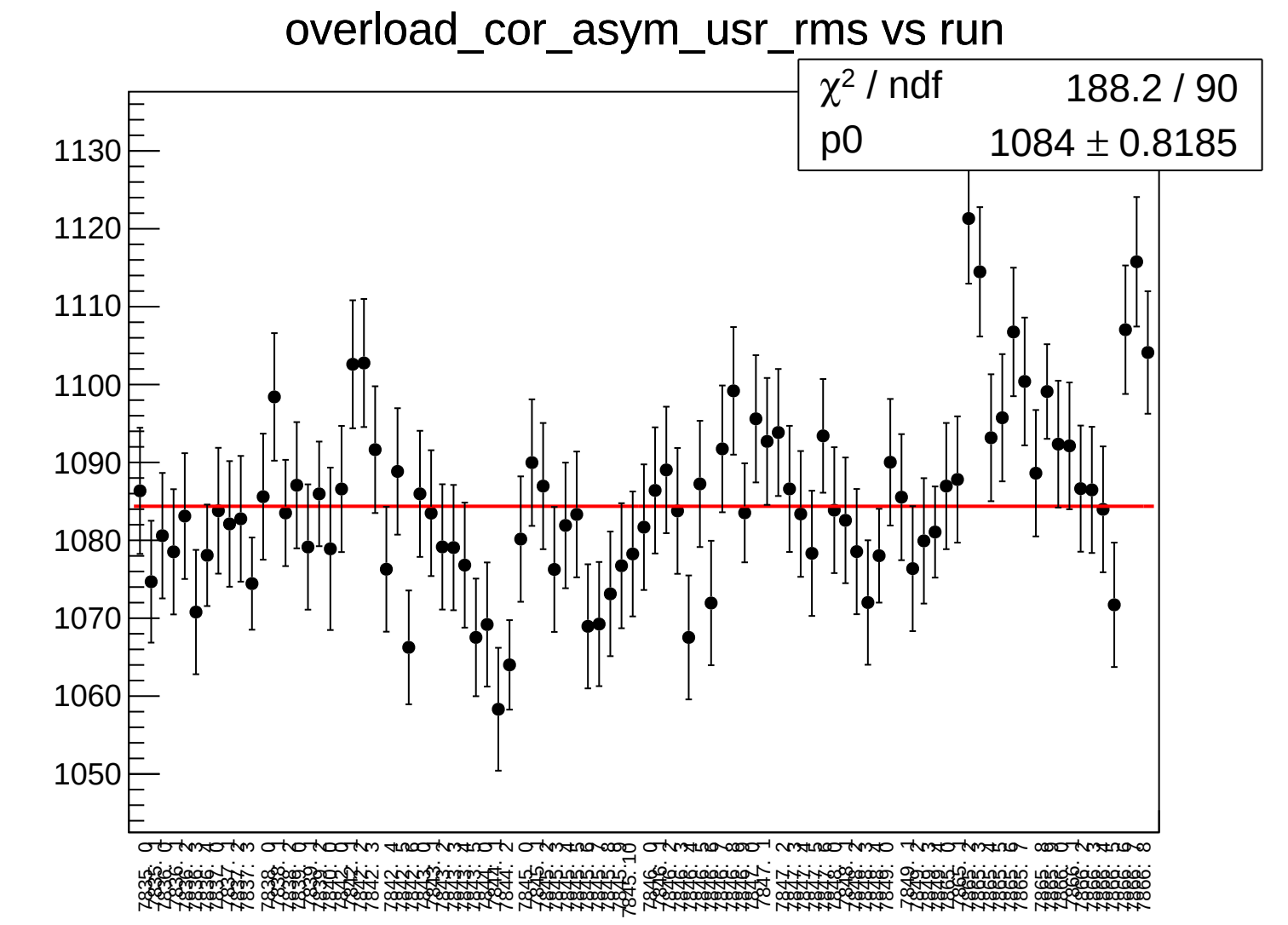

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 90.59 / 90
p0 −3767 ± 3677
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −14.29
Std Dev 0
2
1
0
−1
−2

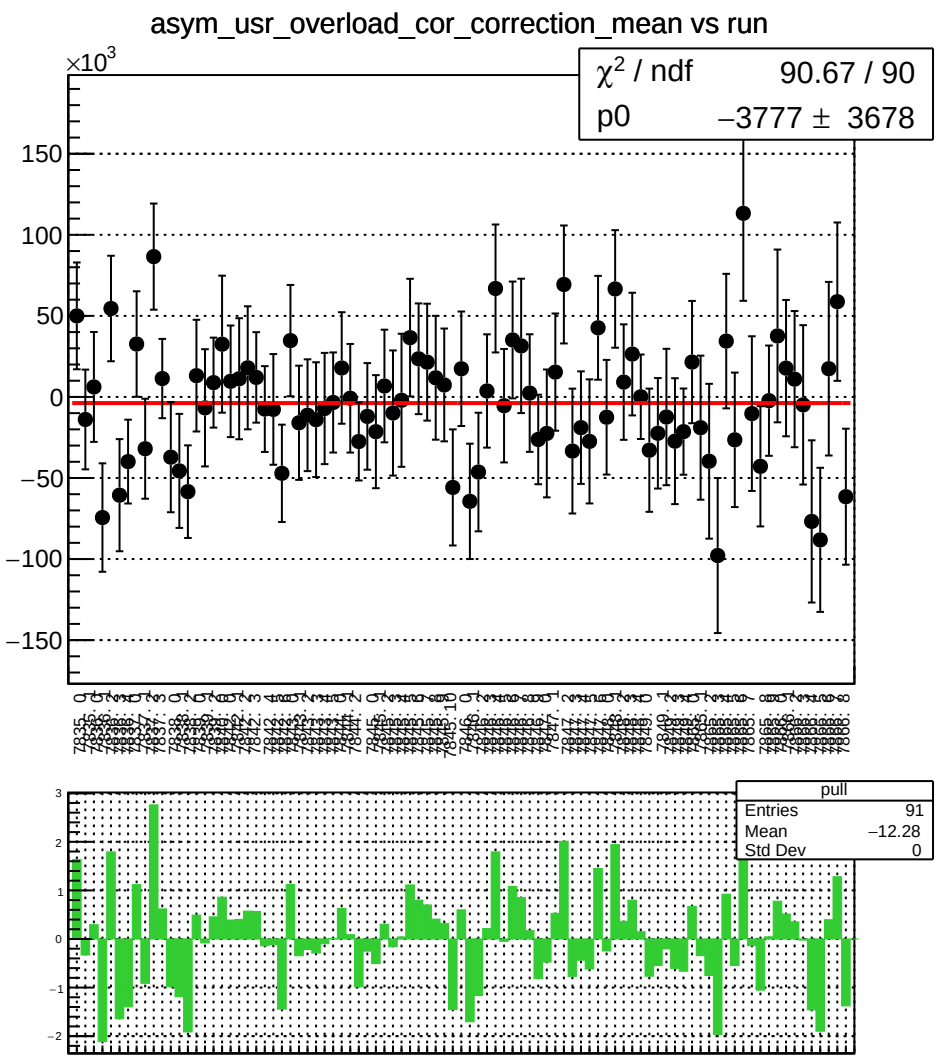

pull1D
Entries 91
Mean 0.01561
Std Dev 0.9976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

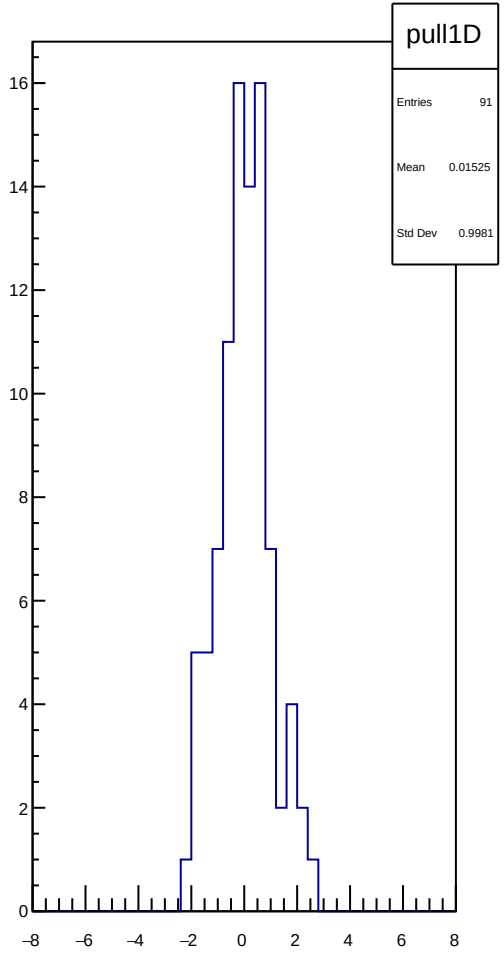

asym_usr_cor_correction_rms vs run
χ^2 / ndf 2.815e+04 / 90
p0 3417 ± 2.6
5000
4500
4000
3500
3000
2500

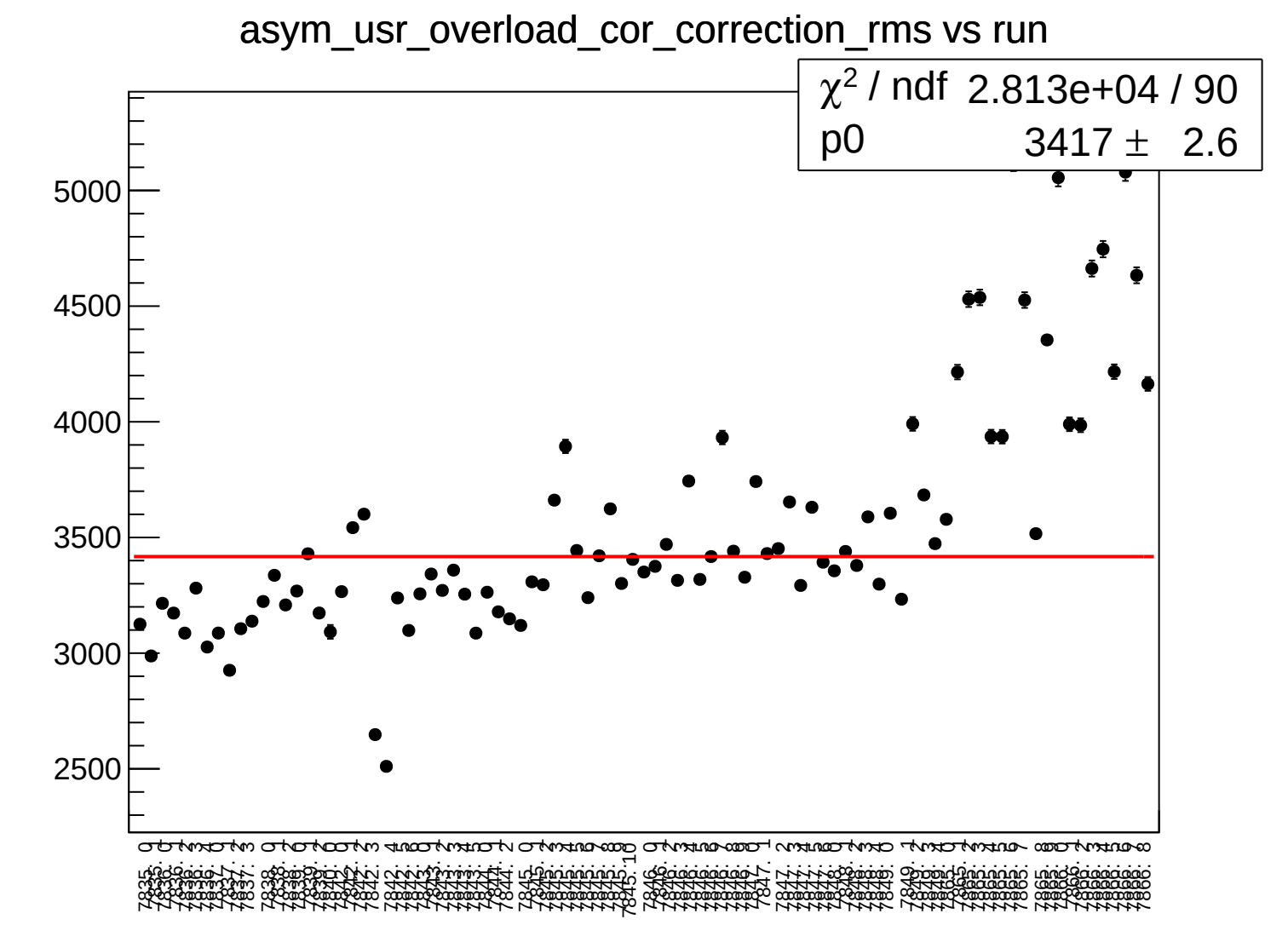

overload_cor_asym_usr_mean vs run
χ² / ndf 94.61 / 90
p0 2810 ± 1158
pull
Entries 91
Mean 4376
Std Dev 0

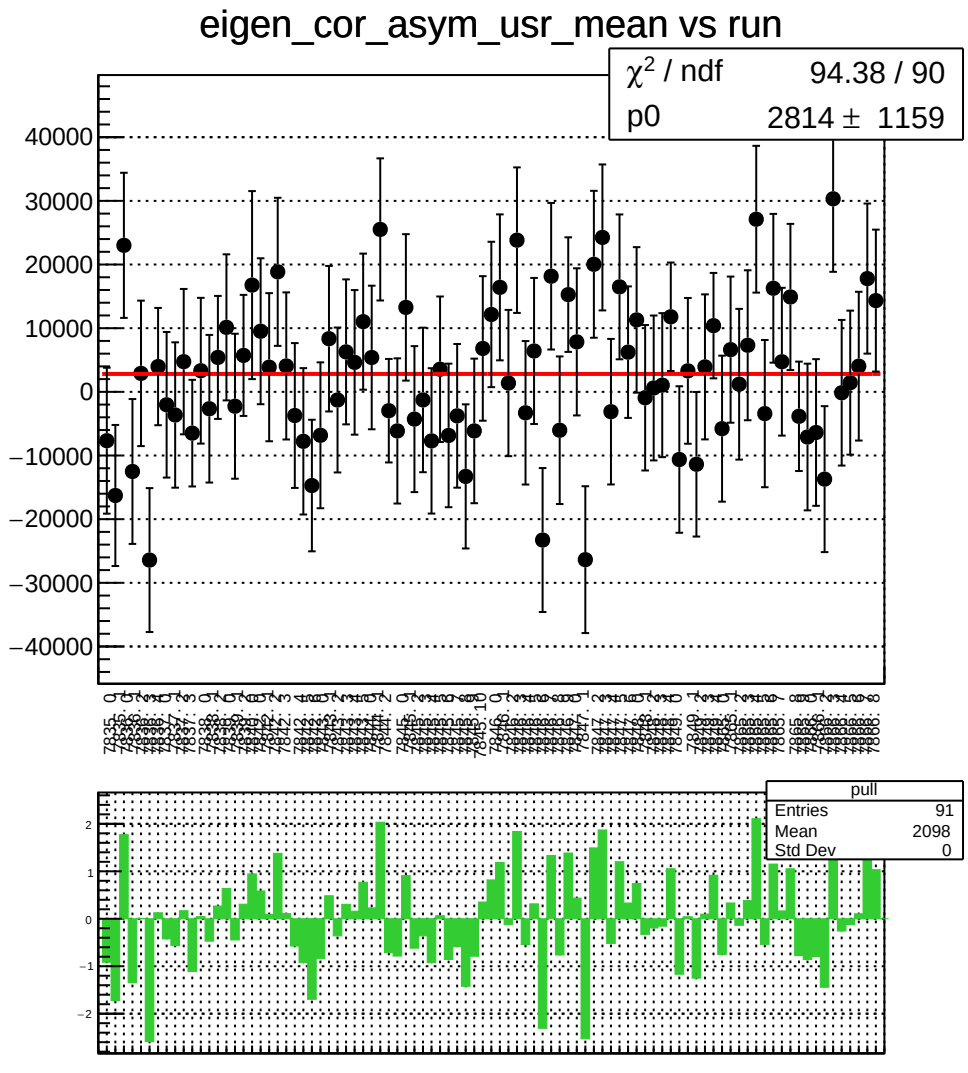

pull1D
Entries 91
Mean 0.001173
Std Dev 1.02

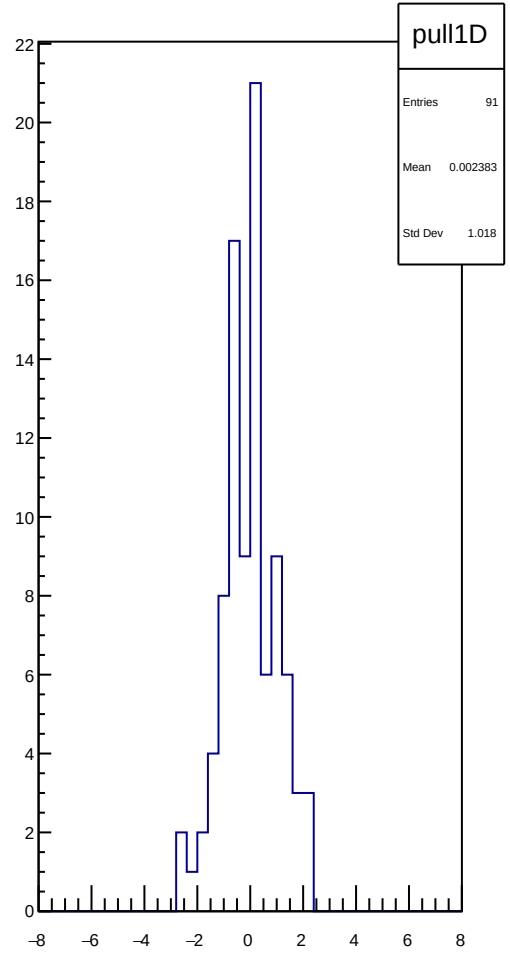

overload_cor_asym_usr_rms vs run
χ² / ndf 188.2 / 90
p0 1084 ± 0.8185
1130
1120
1110
1100
1090
1080
1070
1060
1050

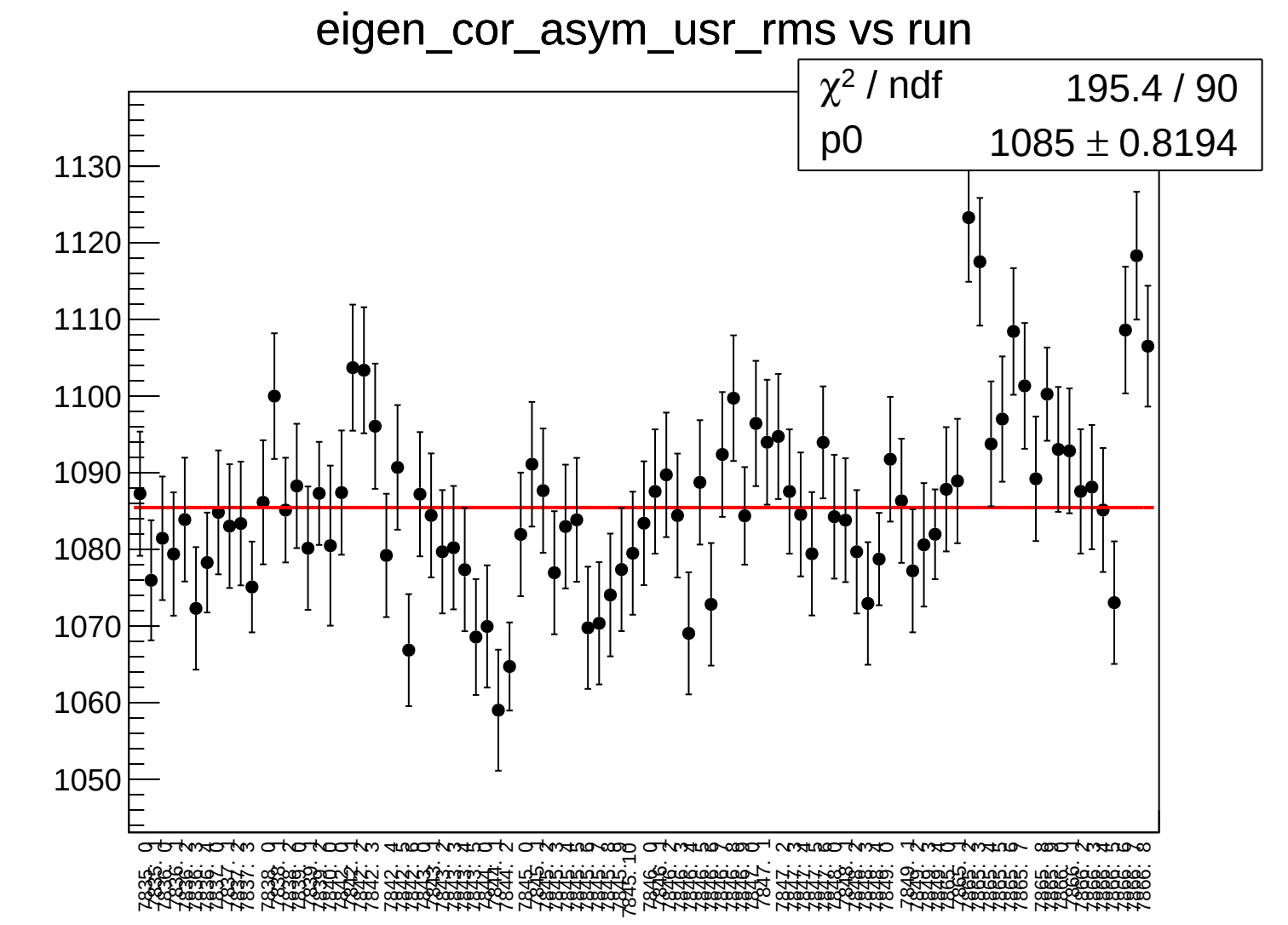

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 90.67 / 90
p0 −3777 ± 3678
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −12.28
Std Dev 0
3
2
1
0
−1
−2

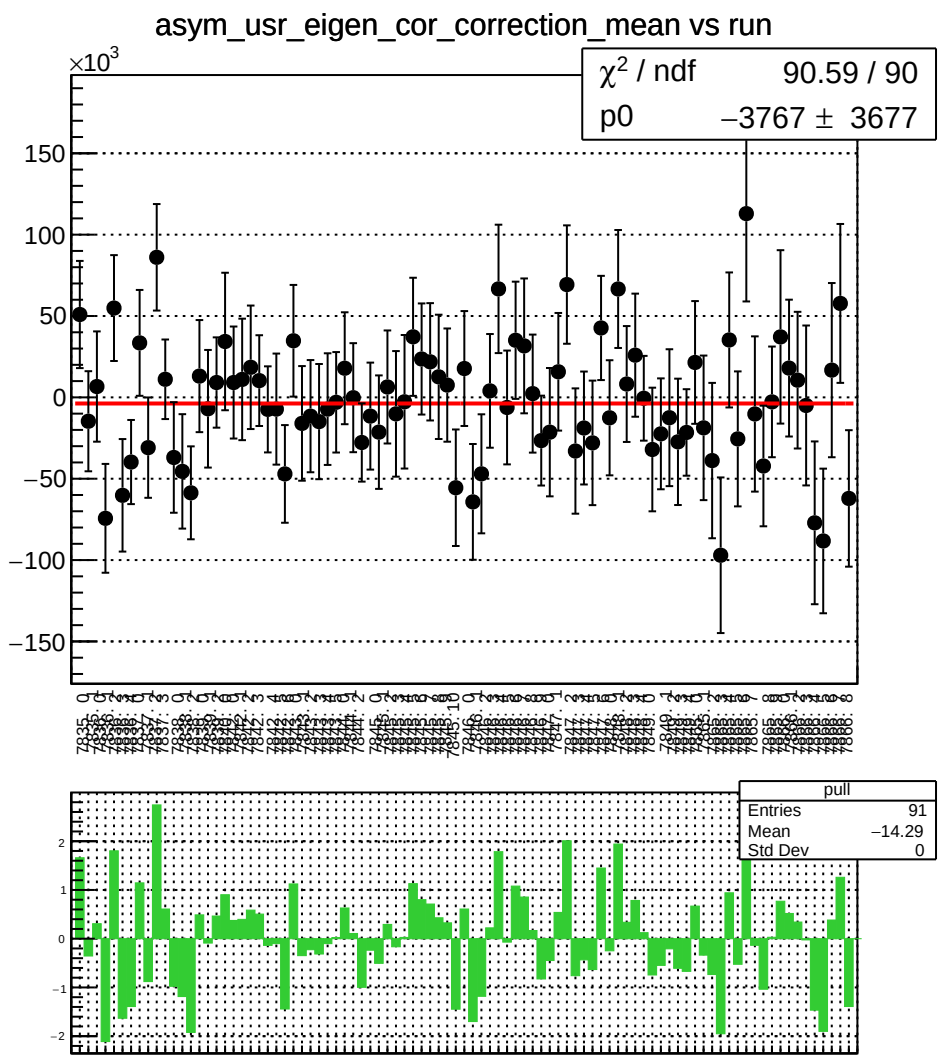

pull1D
Entries 91
Mean 0.01525
Std Dev 0.9981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

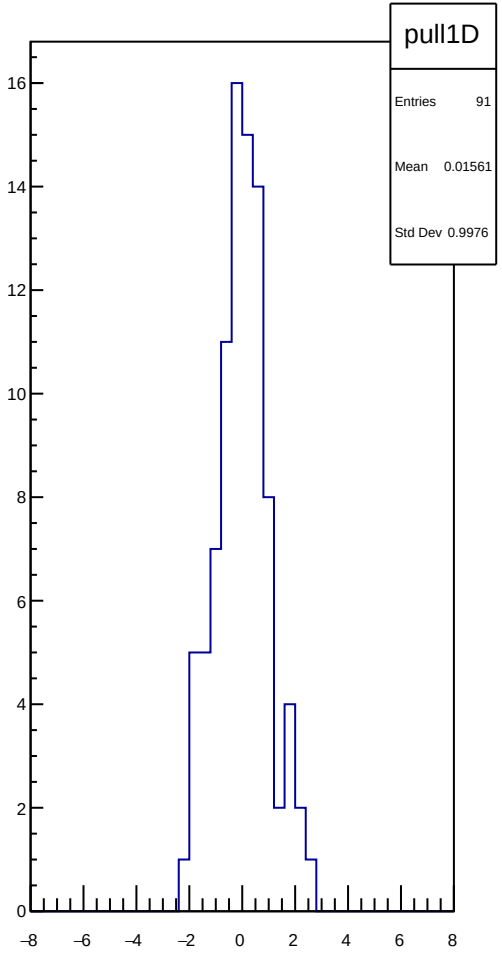

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2.813e+04 / 90
p0 3417 ± 2.6
5000
4500
4000
3500
3000
2500

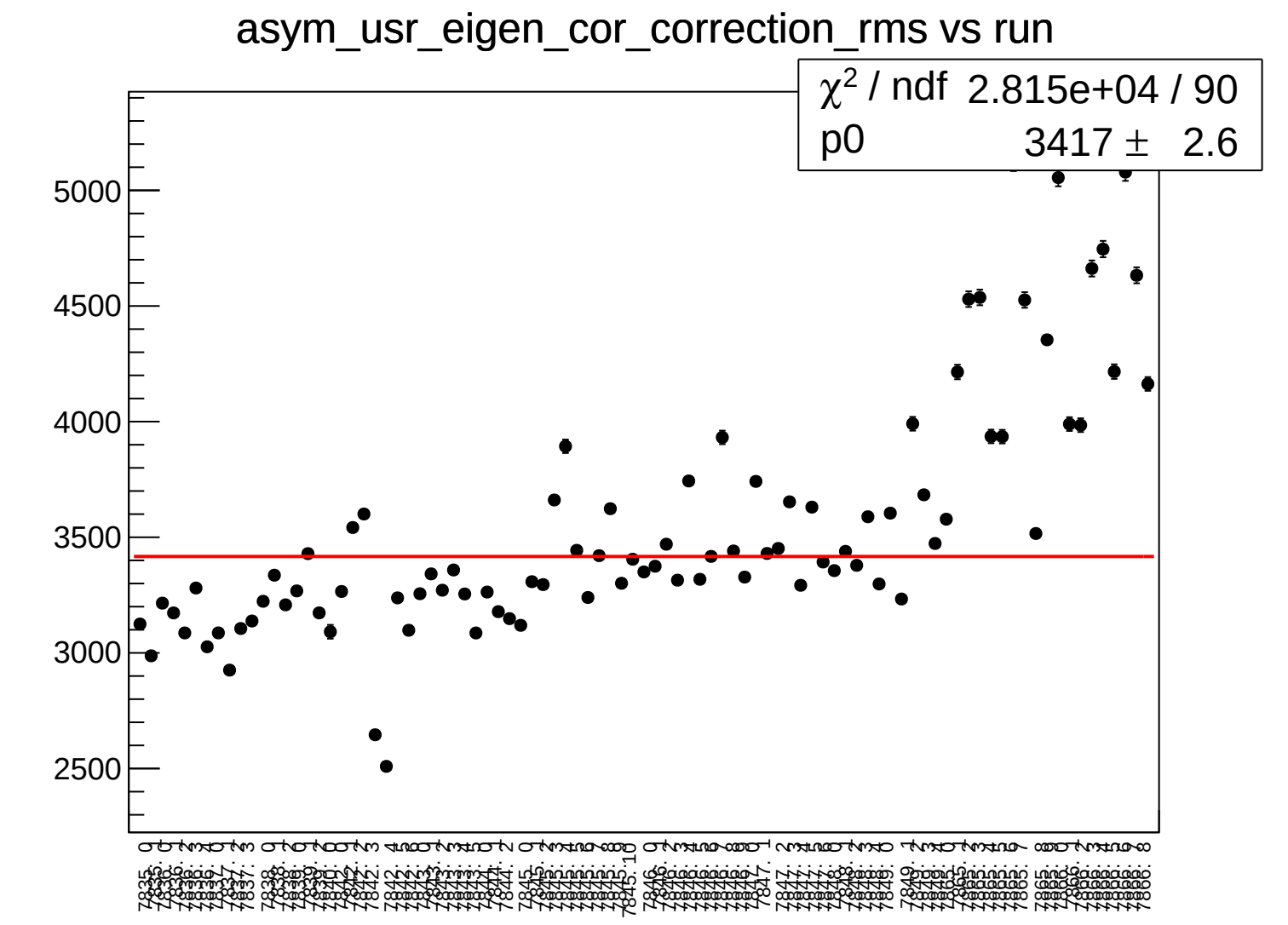

eigen_cor_asym_usr_mean vs run
χ² / ndf 94.38 / 90
p0 2814 ± 1159
pull
Entries 91
Mean 2098
Std Dev 0

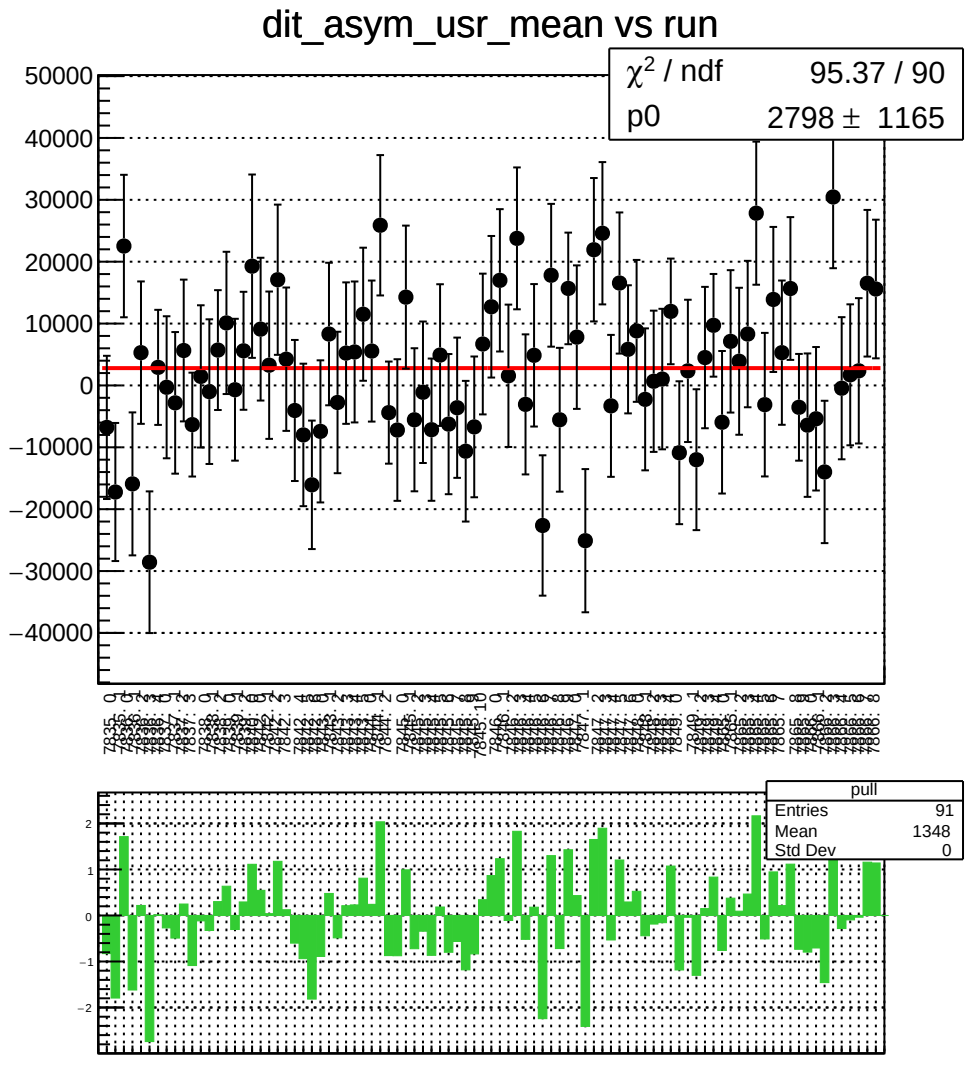

pull1D
Entries 91
Mean 0.002383
Std Dev 1.018

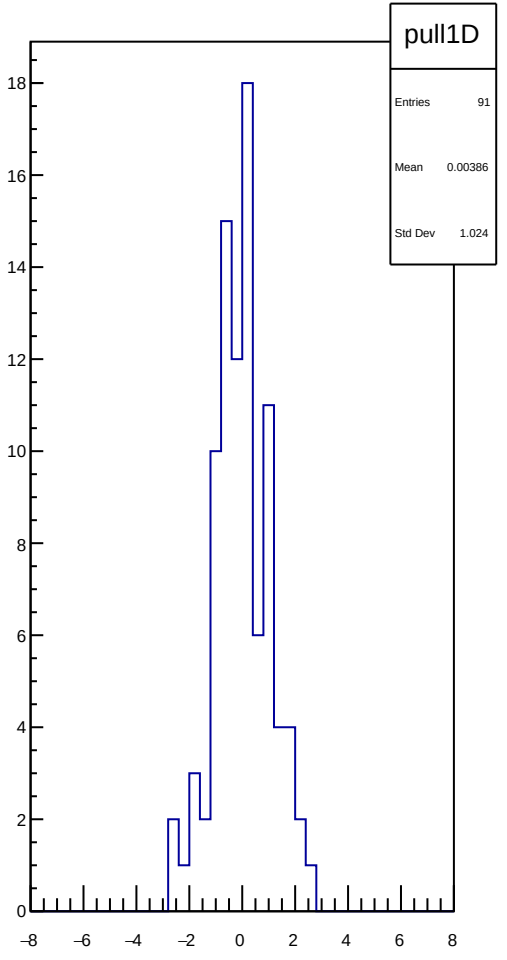

eigen_cor_asym_usr_rms vs run
χ² / ndf 195.4 / 90
p0 1085 ± 0.8194
1130
1120
1110
1100
1090
1080
1070
1060
1050

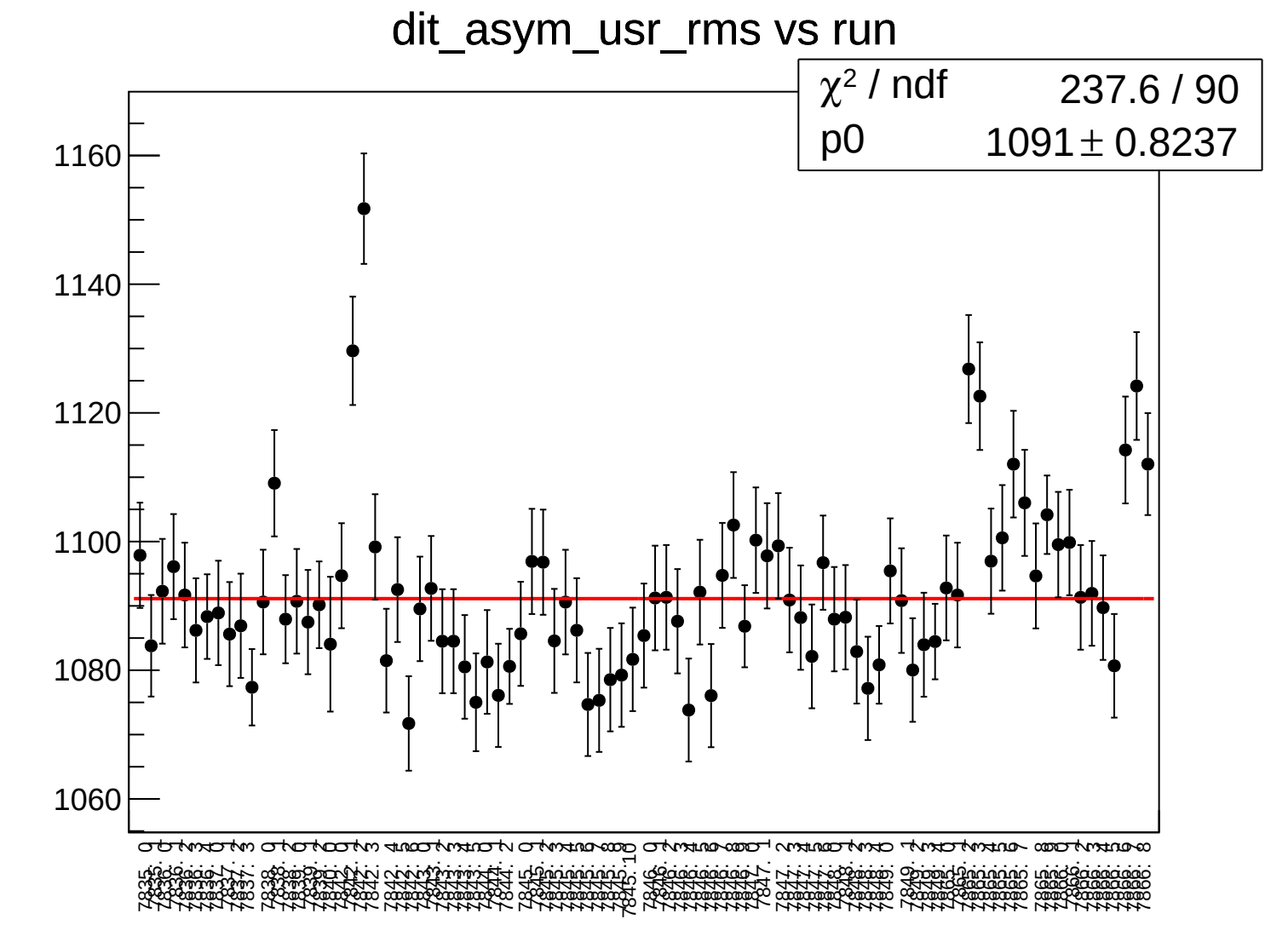

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 90.59 / 90
p0 −3767 ± 3677
×10³
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −14.29
Std Dev 0
2
1
0
−1
−2

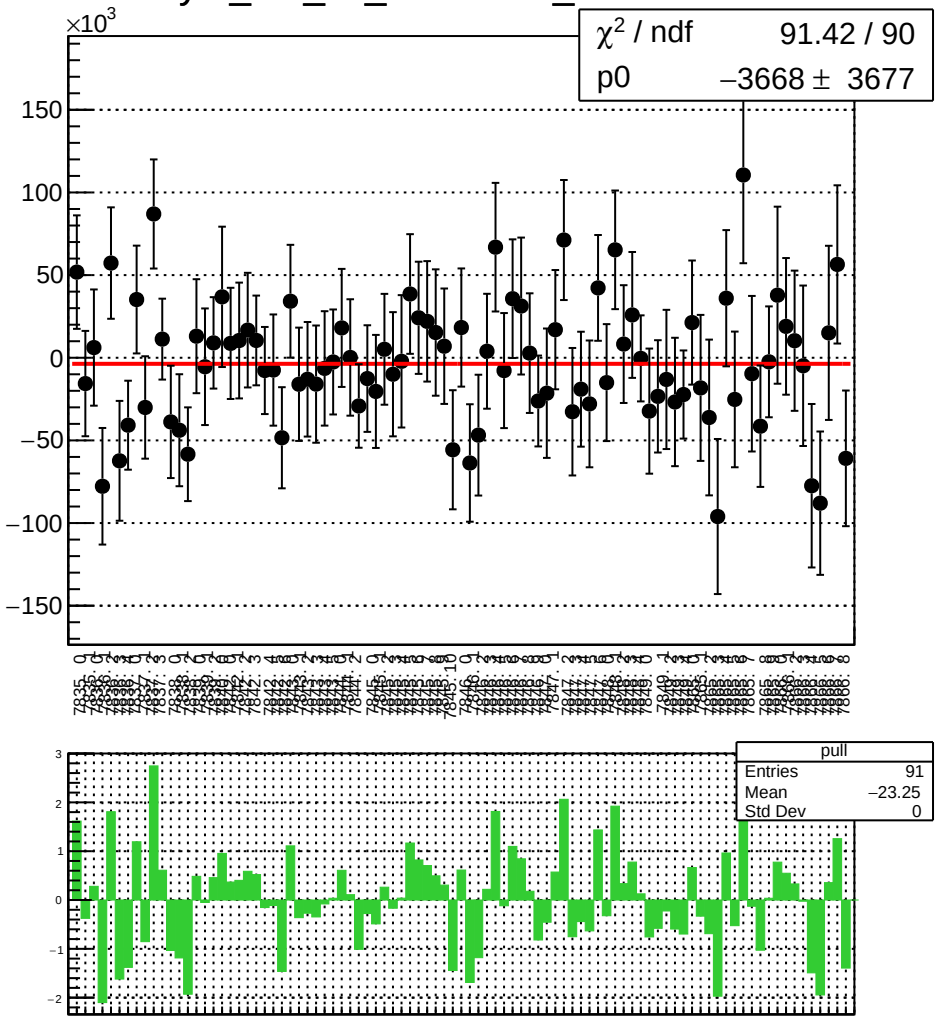

pull1D
Entries 91
Mean 0.01561
Std Dev 0.9976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

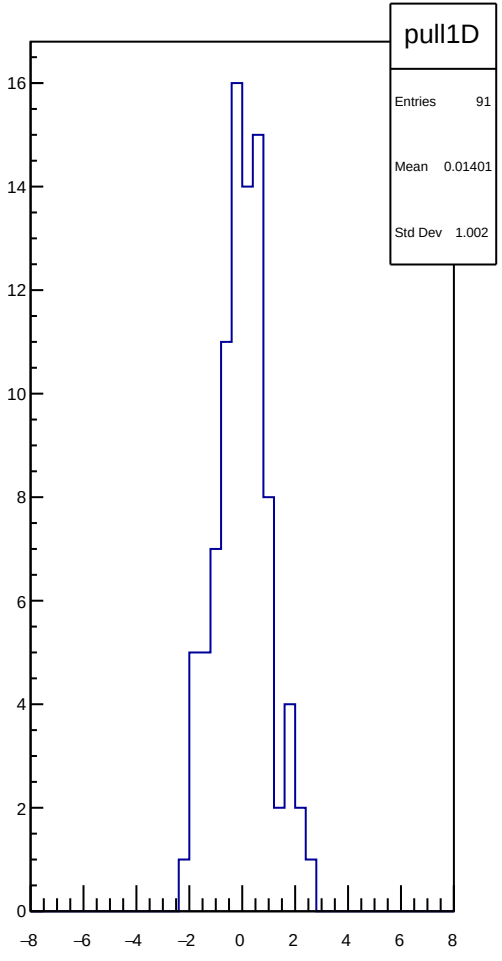

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 2.815e+04 / 90
p0 3417 ± 2.6
5000
4500
4000
3500
3000
2500


dit_asym_usr_mean vs run
χ² / ndf 95.37 / 90
p0 2798 ± 1165
pull
Entries 91
Mean 1348
Std Dev 0


pull1D
Entries 91
Mean 0.00386
Std Dev 1.024


dit_asym_usr_rms vs run
χ² / ndf 237.6 / 90
p0 1091 ± 0.8237
1160
1140
1120
1100
1080
1060


asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 91.42 / 90
p0 −3668 ± 3677
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −23.25
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01401
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
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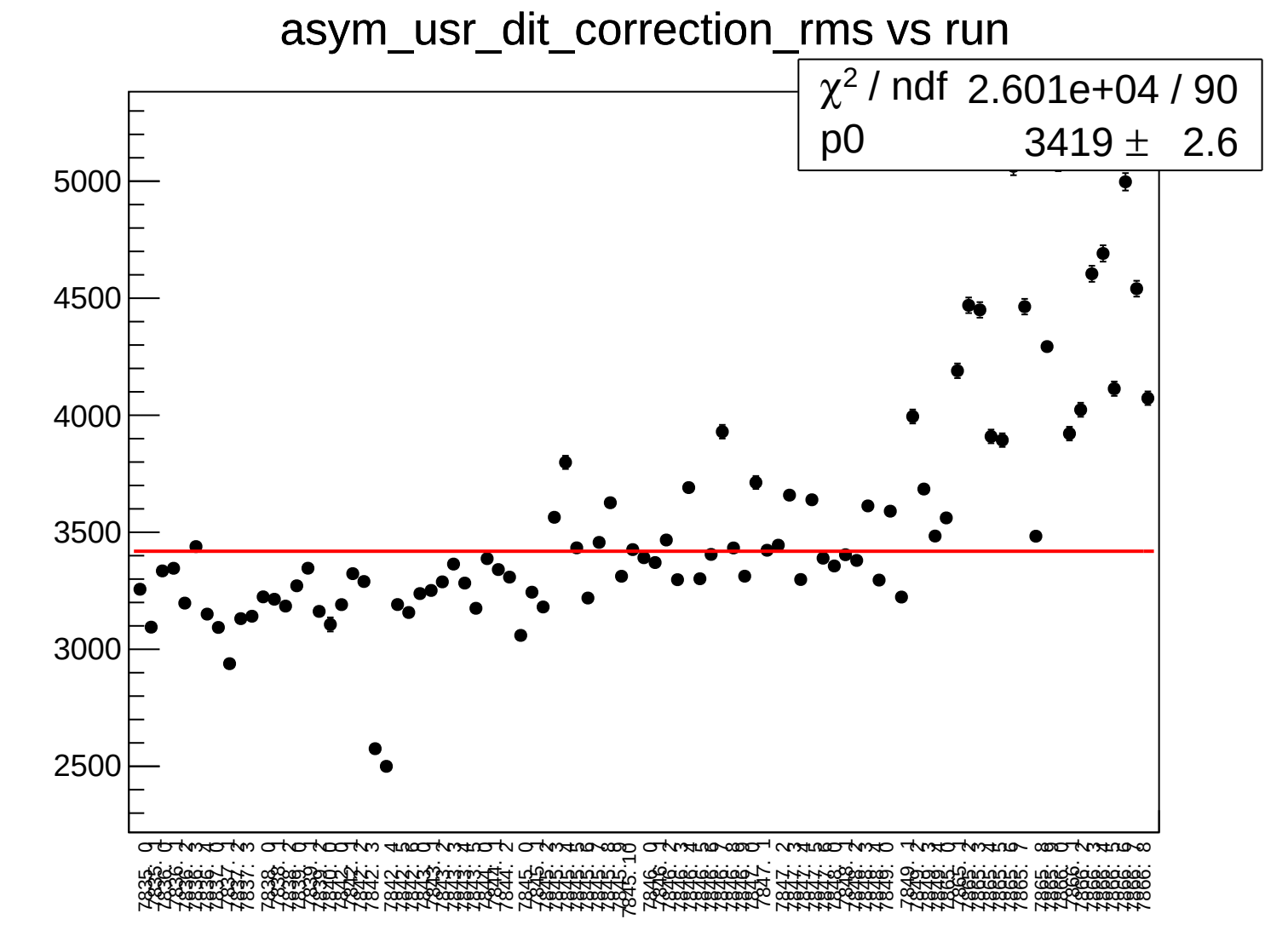
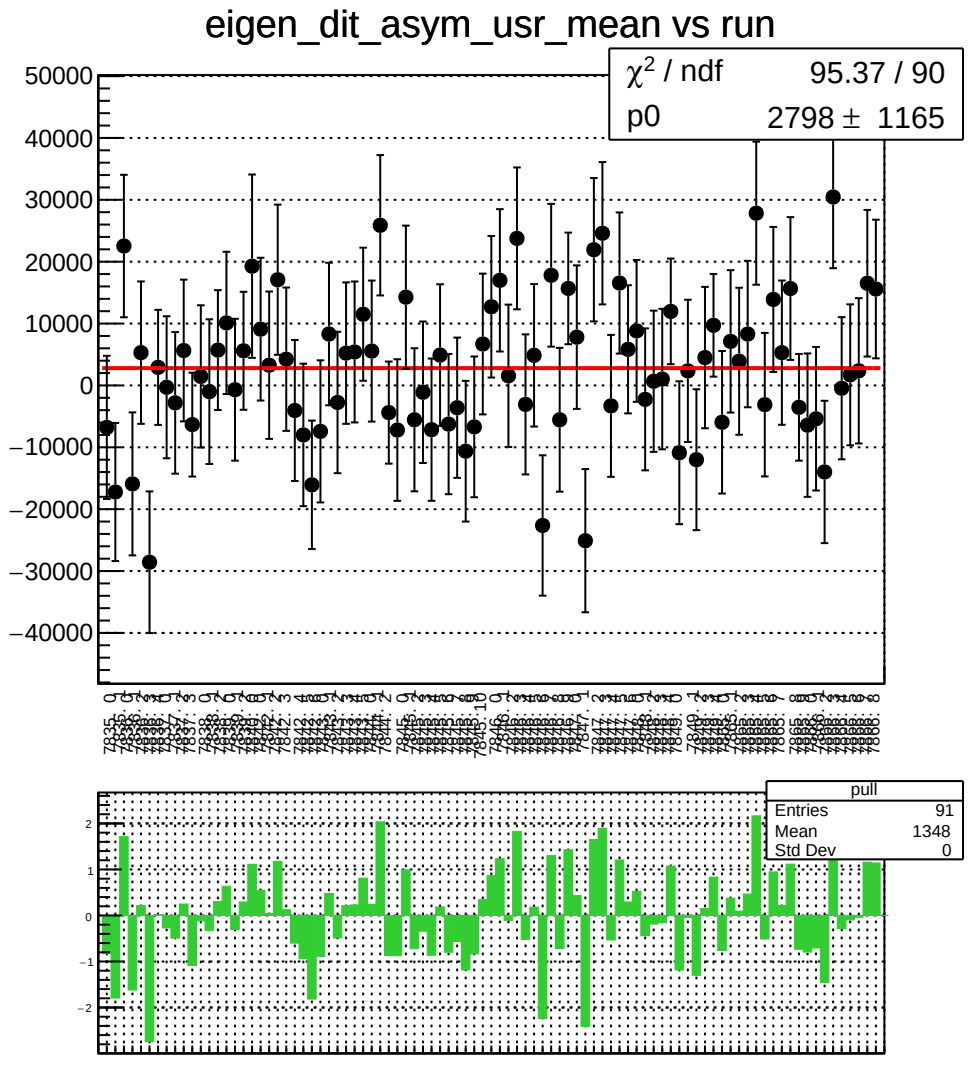
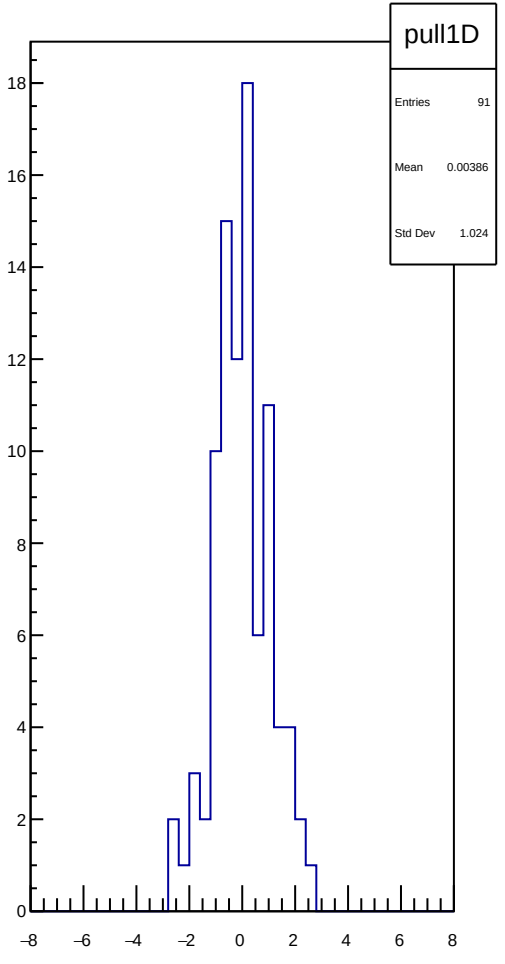
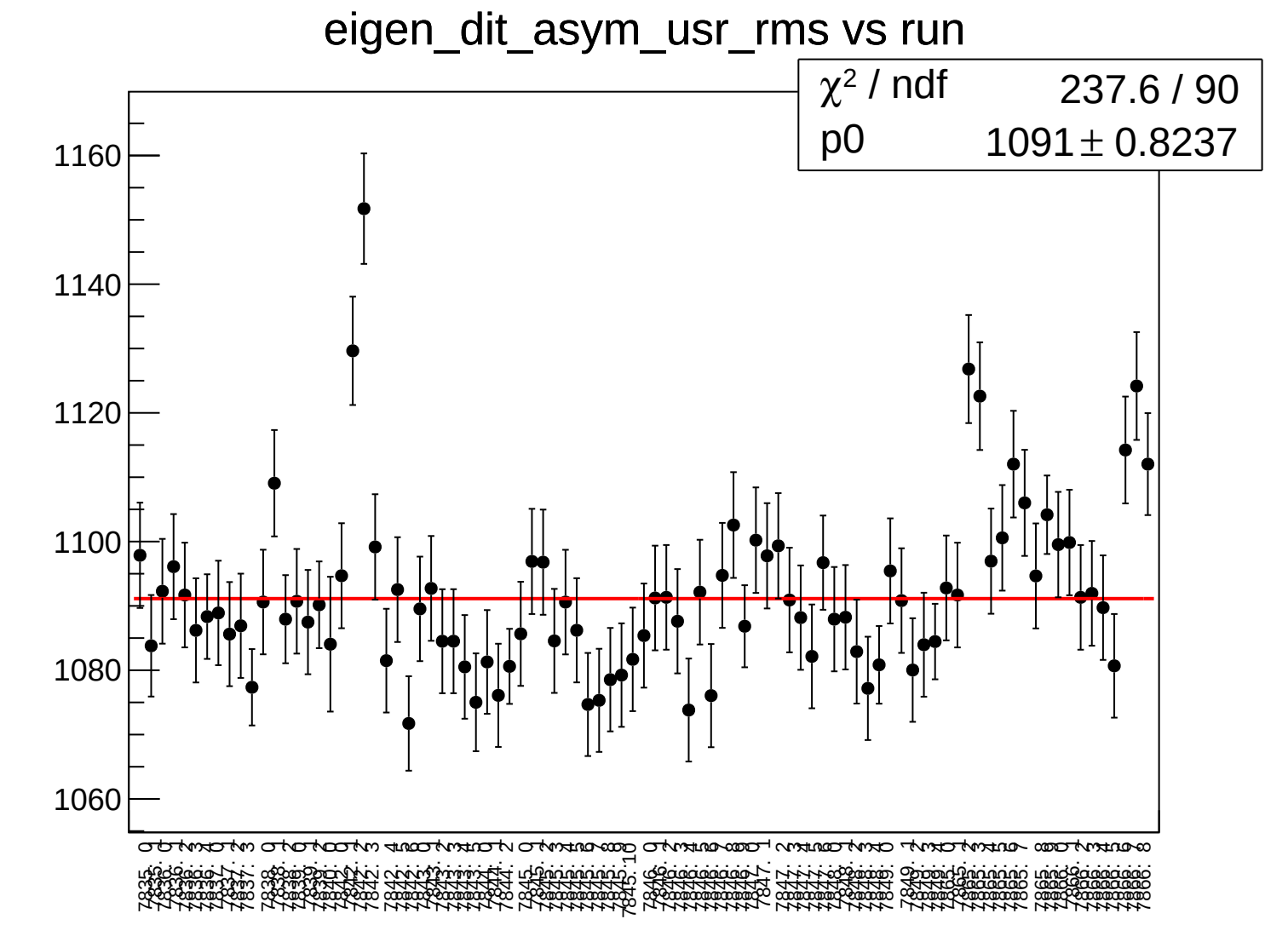
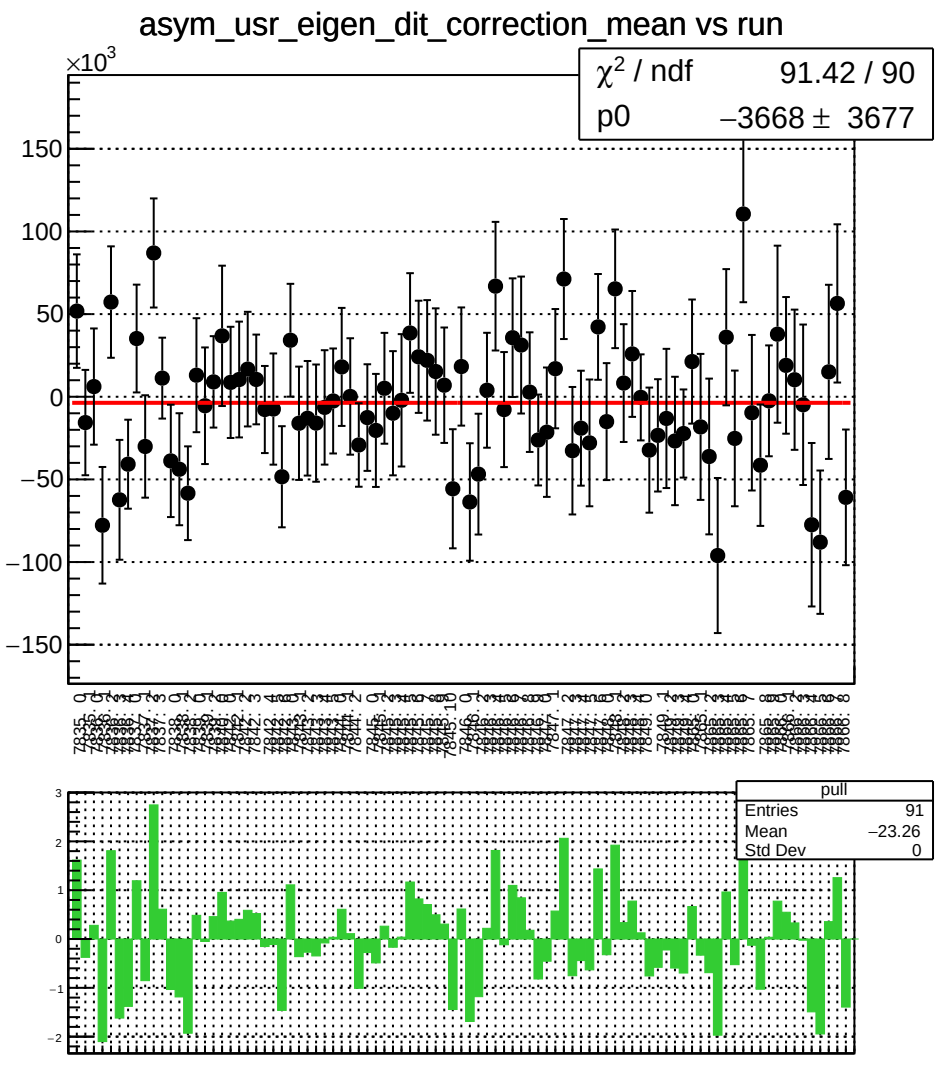
0
2
4
6
8

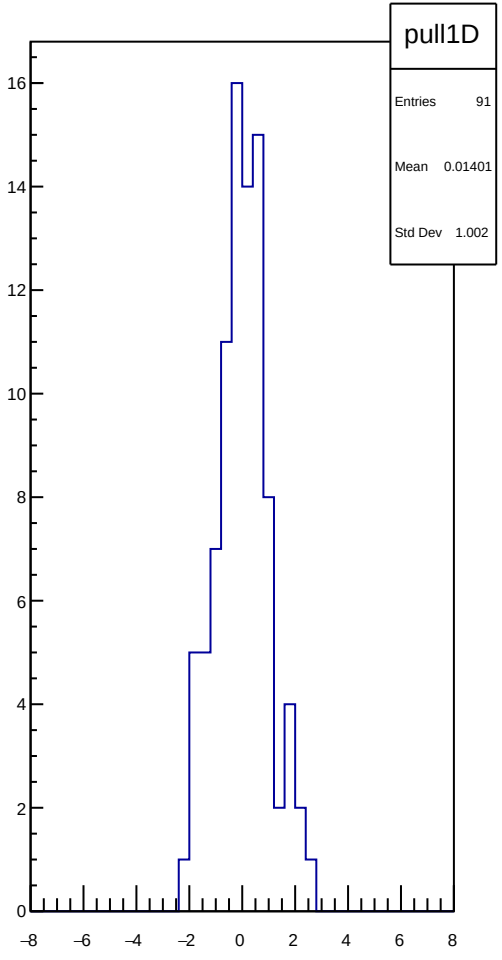

asym_usr_dit_correction_rms vs run
χ² / ndf 2.601e+04 / 90
p0 3419 ± 2.6
5000
4500
4000
3500
3000
2500

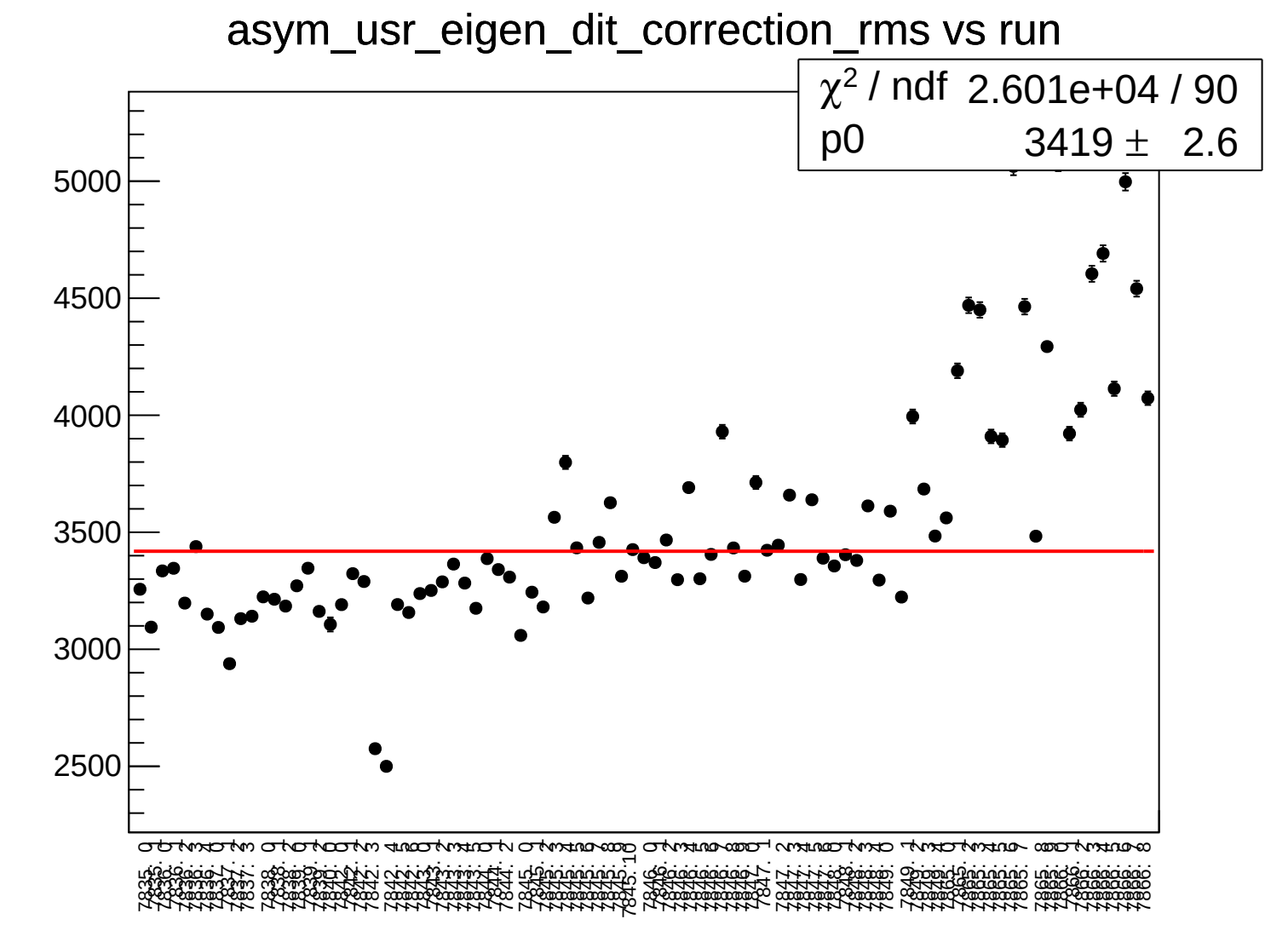

eigen_dit_asym_usr_mean vs run
χ² / ndf 95.37 / 90
p0 2798 ± 1165
pull
Entries 91
Mean 1348
Std Dev 0

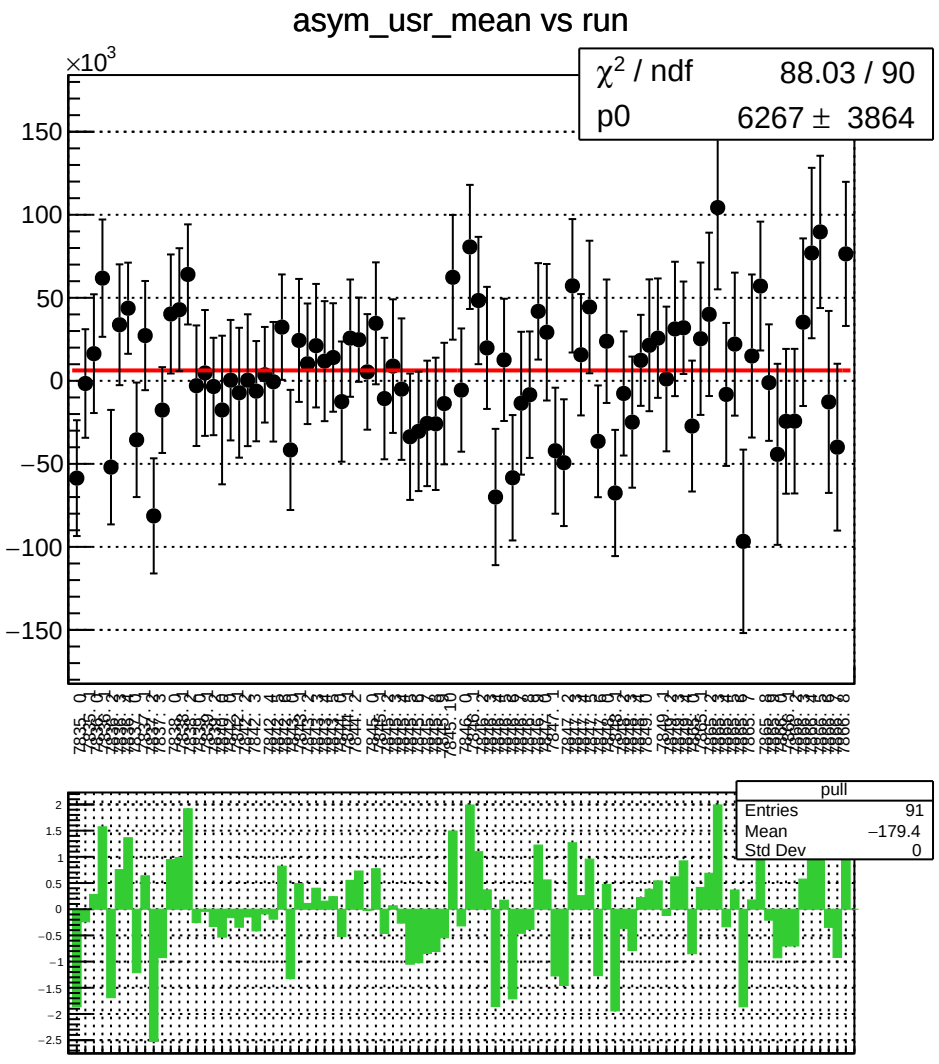

pull1D
Entries 91
Mean 0.00386
Std Dev 1.024

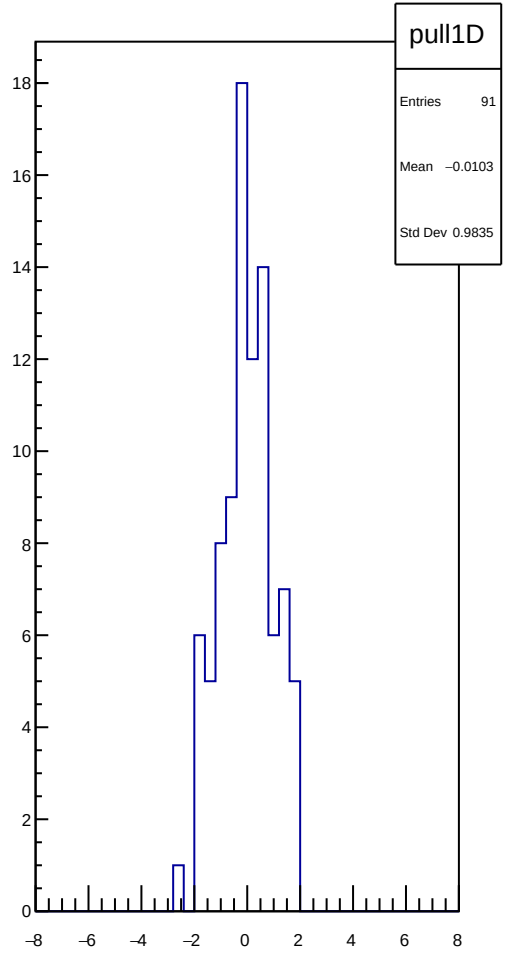

eigen_dit_asym_usr_rms vs run
χ² / ndf 237.6 / 90
p0 1091 ± 0.8237
1160
1140
1120
1100
1080
1060

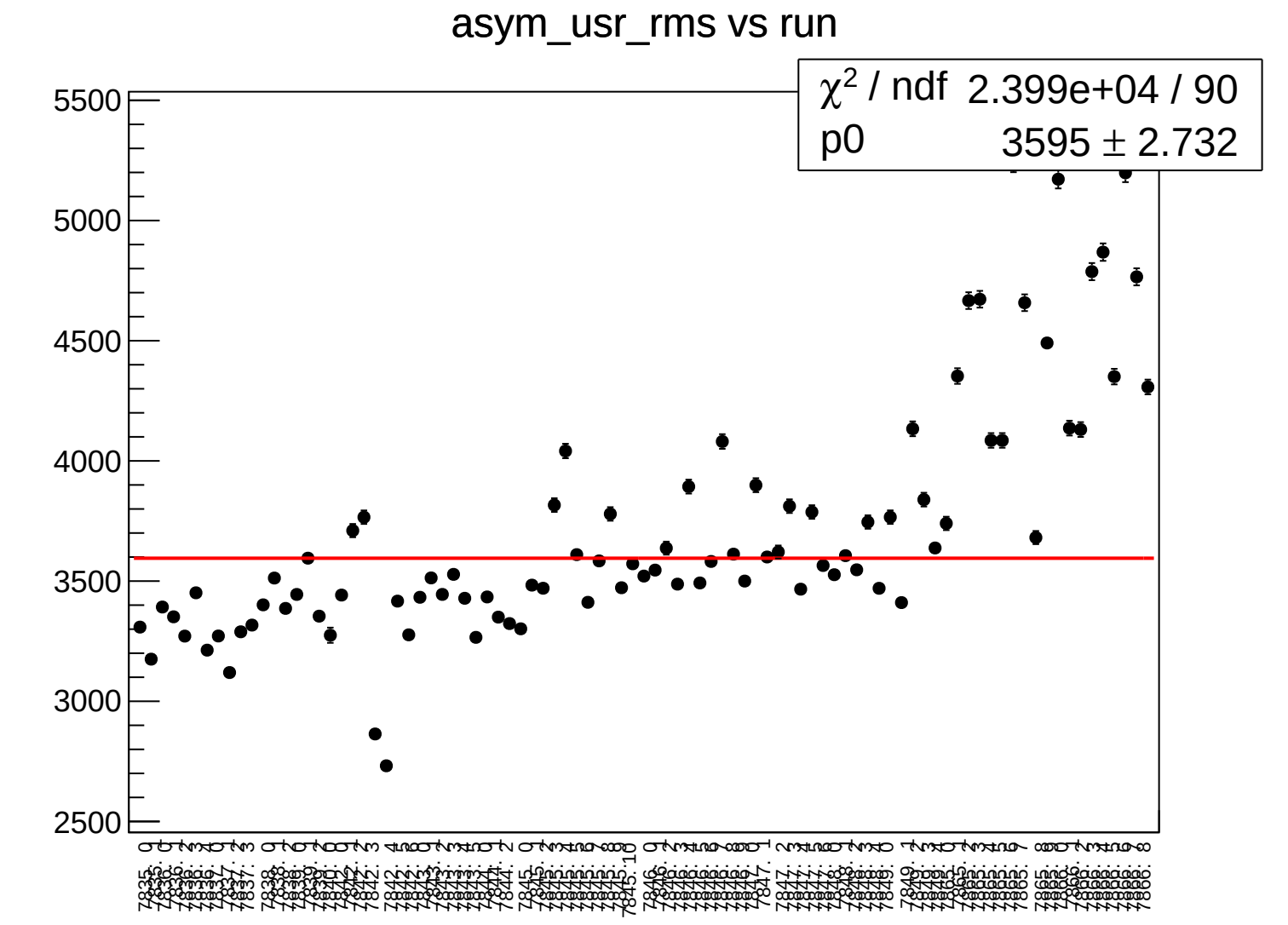

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.42 / 90
p0 −3668 ± 3677
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −23.26
Std Dev 0
3
2
1
0
−1
−2

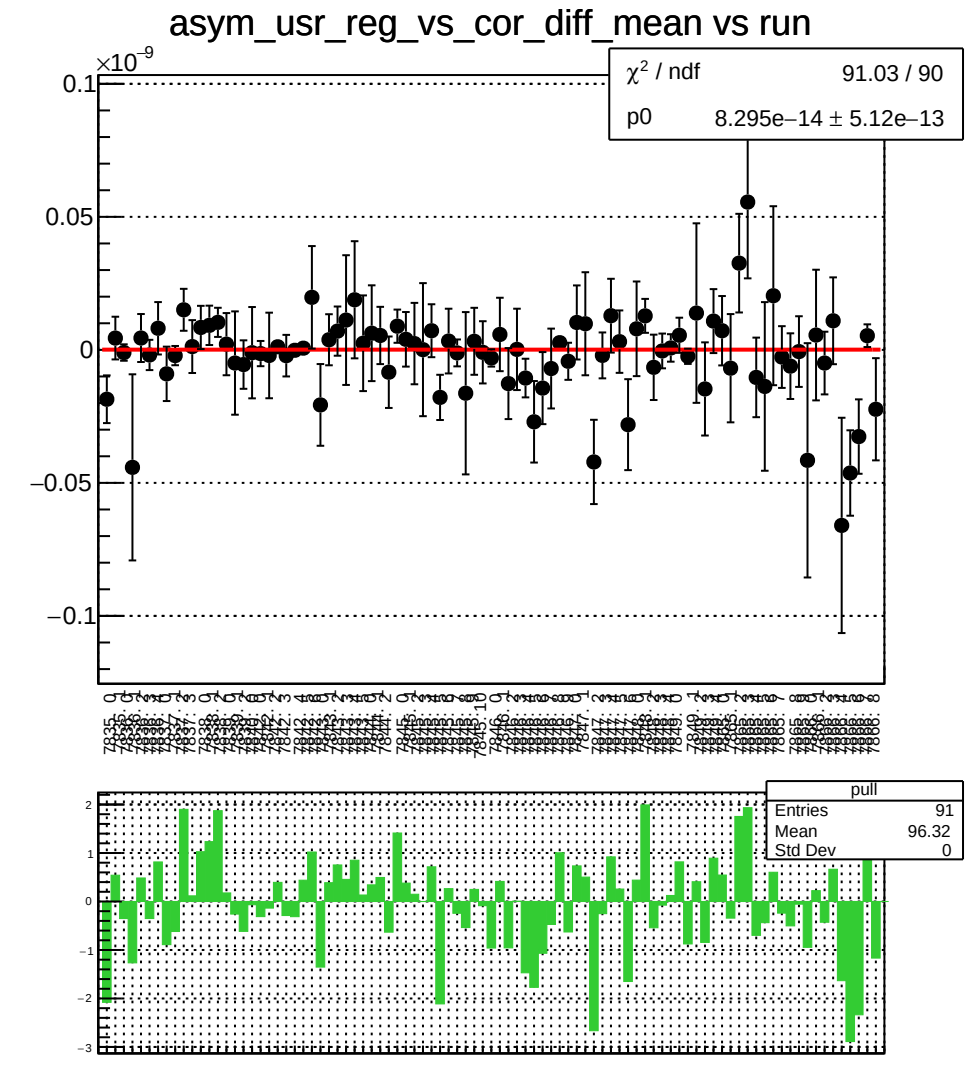

pull1D
Entries 91
Mean 0.01401
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

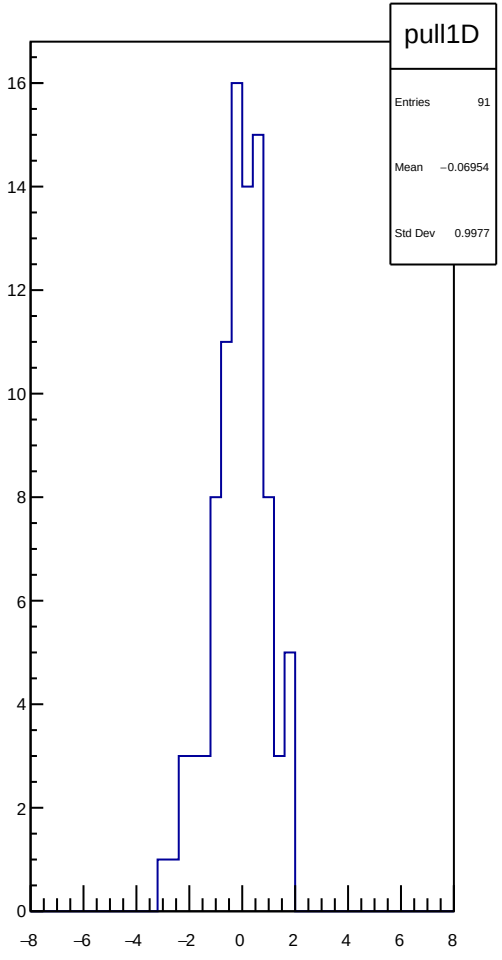

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2.601e+04 / 90
p0 3419 ± 2.6
5000
4500
4000
3500
3000
2500


asym_usr_mean vs run
×10^3
χ^2 / ndf 88.03 / 90
p0 6267 ± 3864
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −179.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

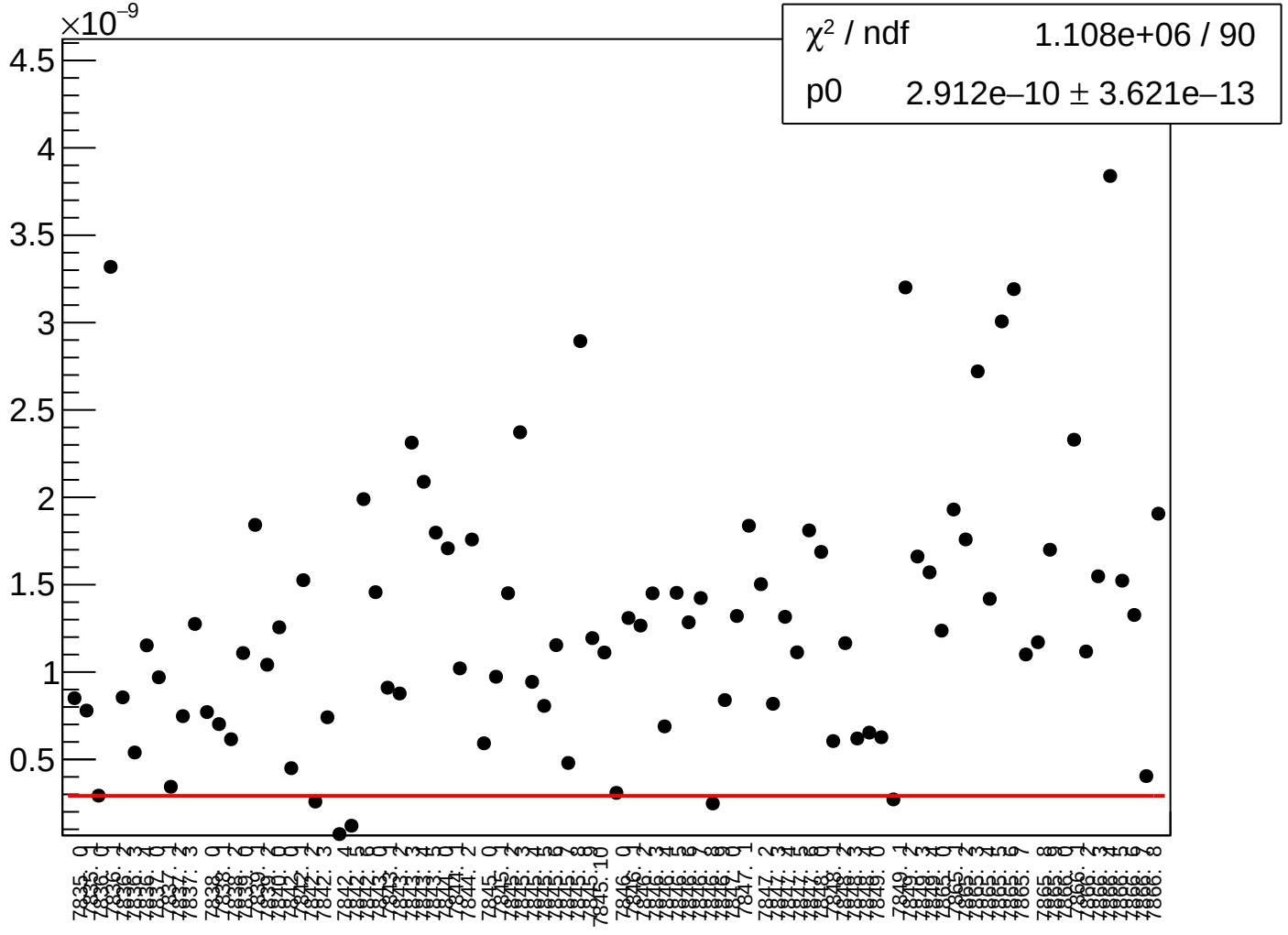

pull1D
Entries 91
Mean −0.0103
Std Dev 0.9835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

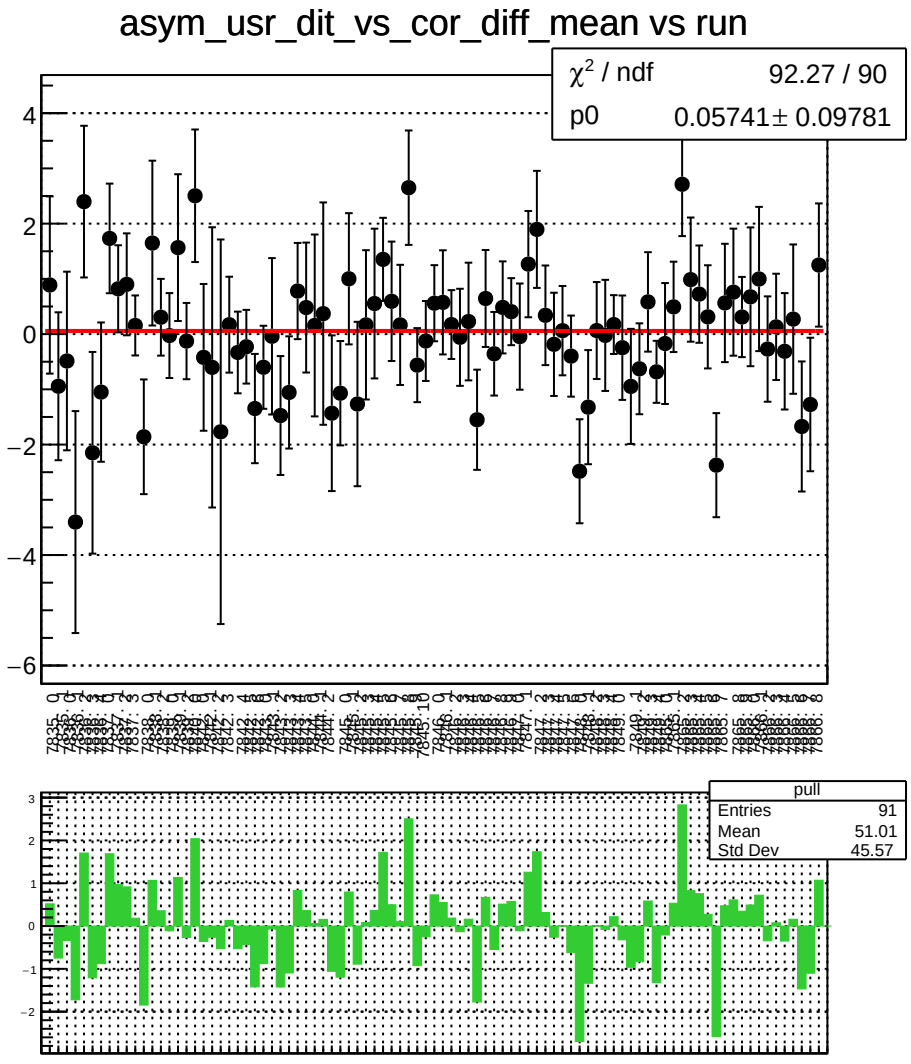

asym_usr_rms vs run
χ² / ndf 2.399e+04 / 90
p0 3595 ± 2.732
5500
5000
4500
4000
3500
3000
2500

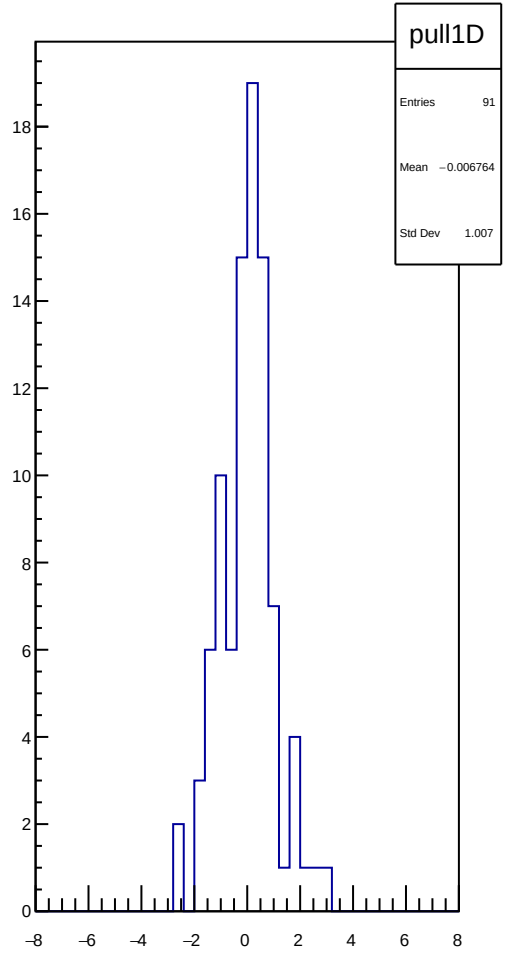

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 91.03 / 90
p0 8.295e−14 ± 5.12e−13
pull
Entries 91
Mean 96.32
Std Dev 0

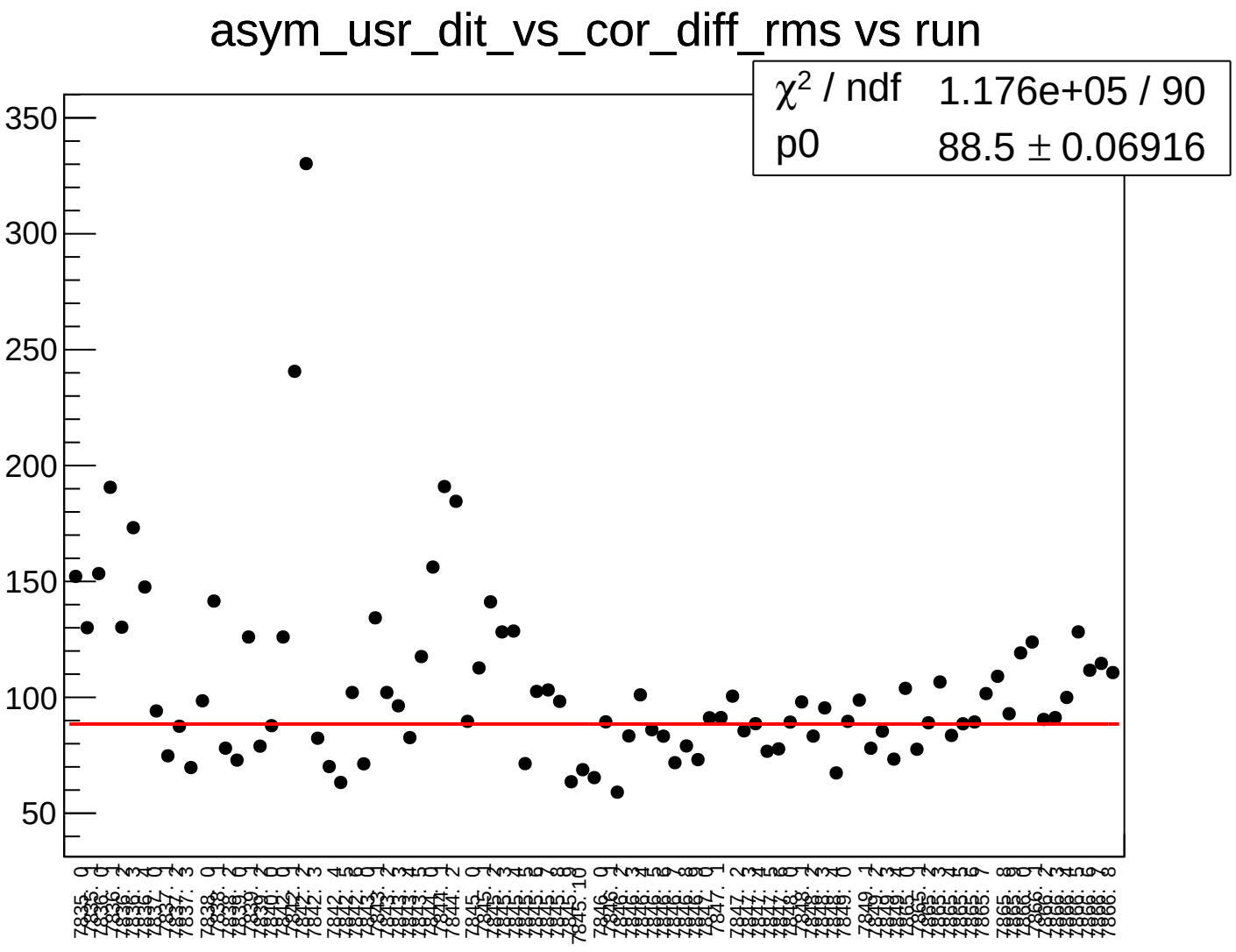

pull1D
Entries 91
Mean −0.06954
Std Dev 0.9977

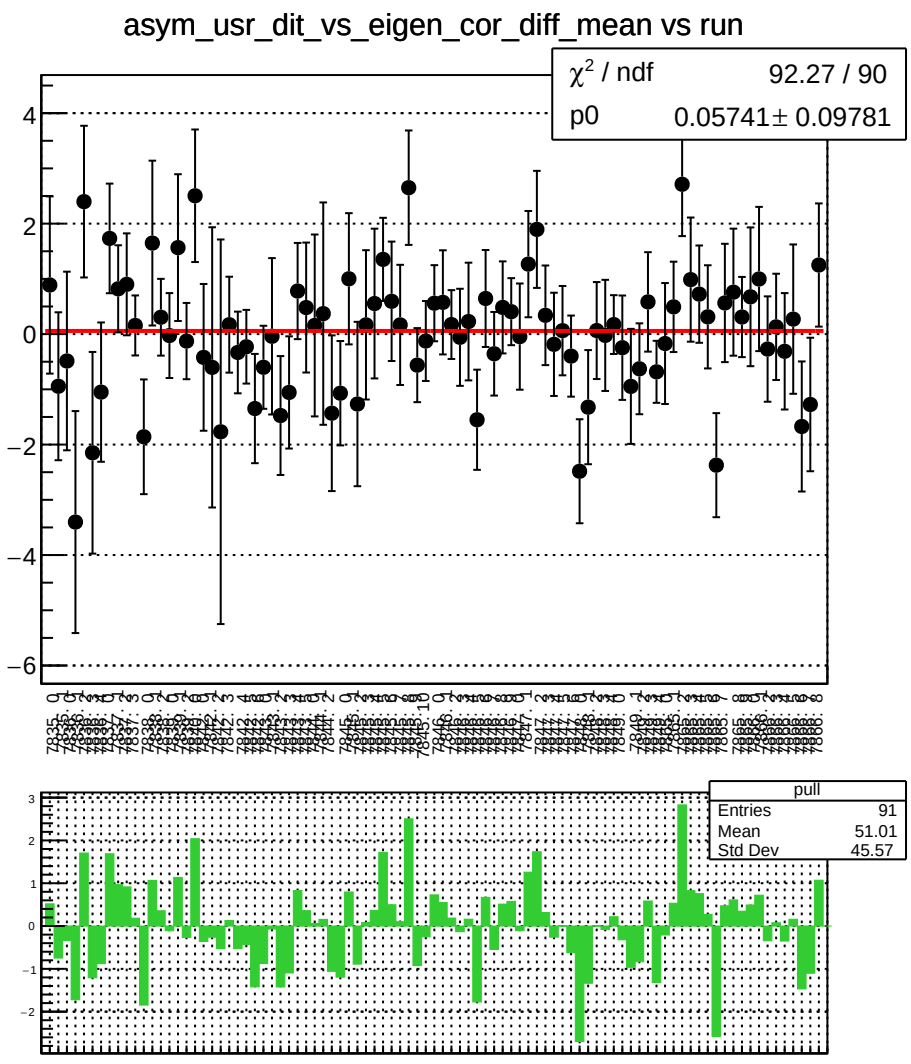
asym_usr_reg_vs_cor_diff_rms vs run

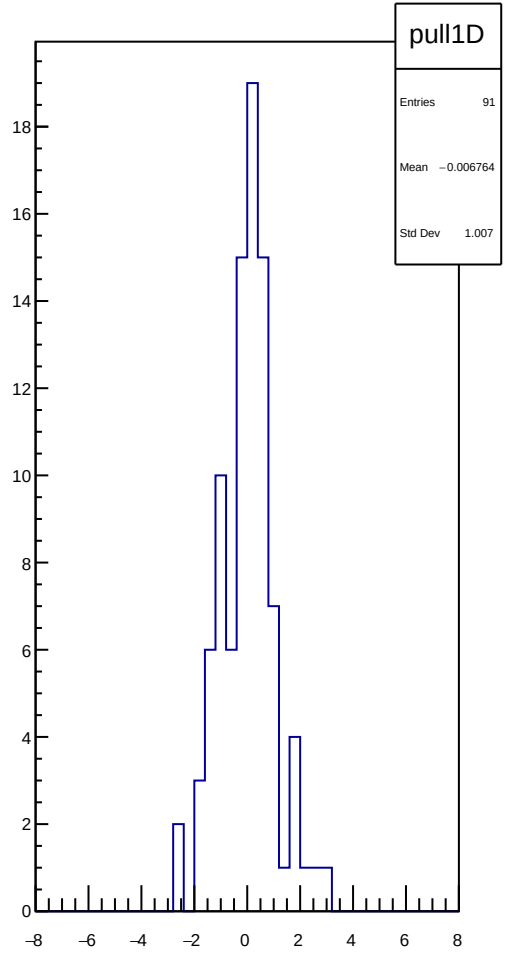


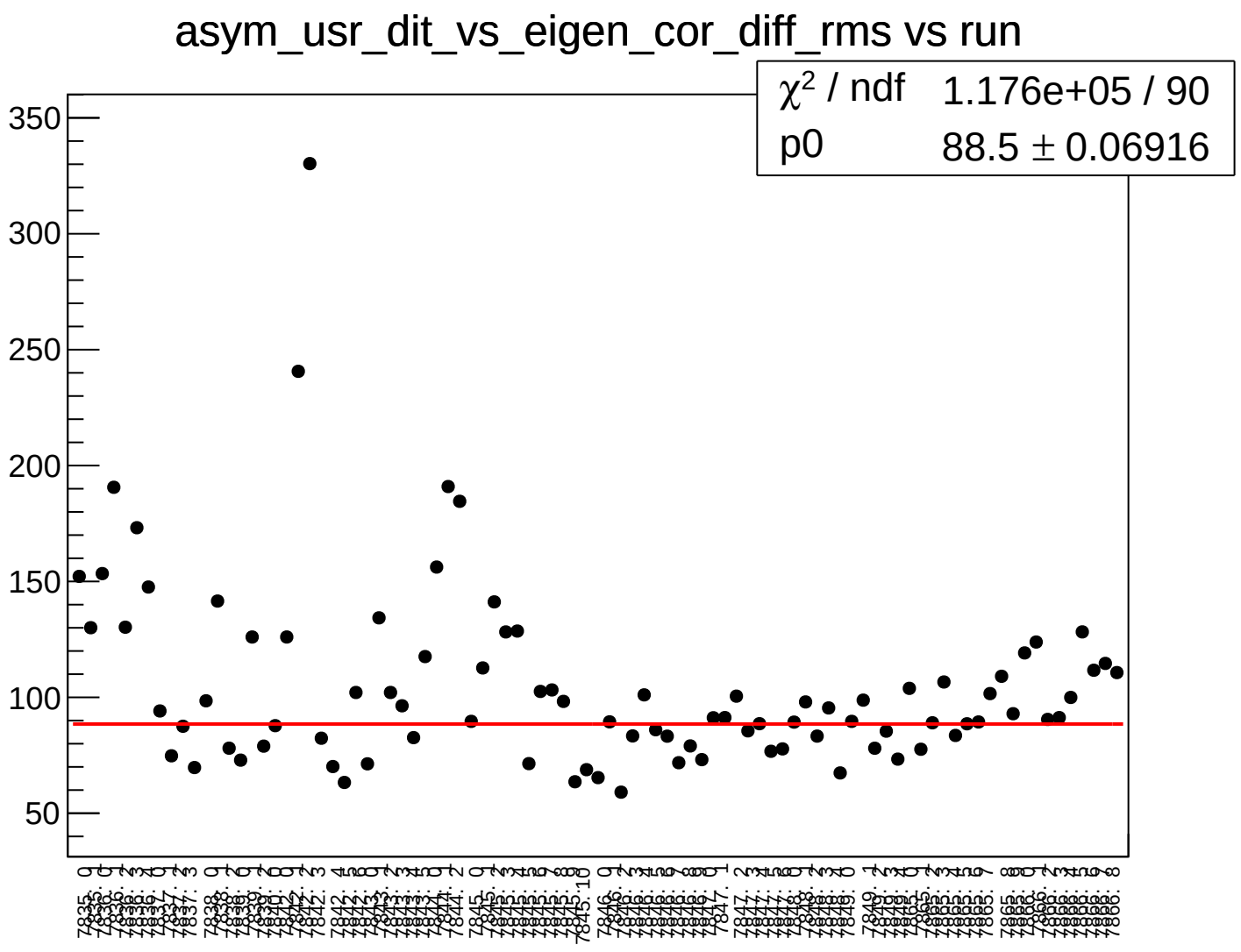

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 92.27 / 90
p0 0.05741± 0.09781
pull
Entries 91
Mean 51.01
Std Dev 45.57

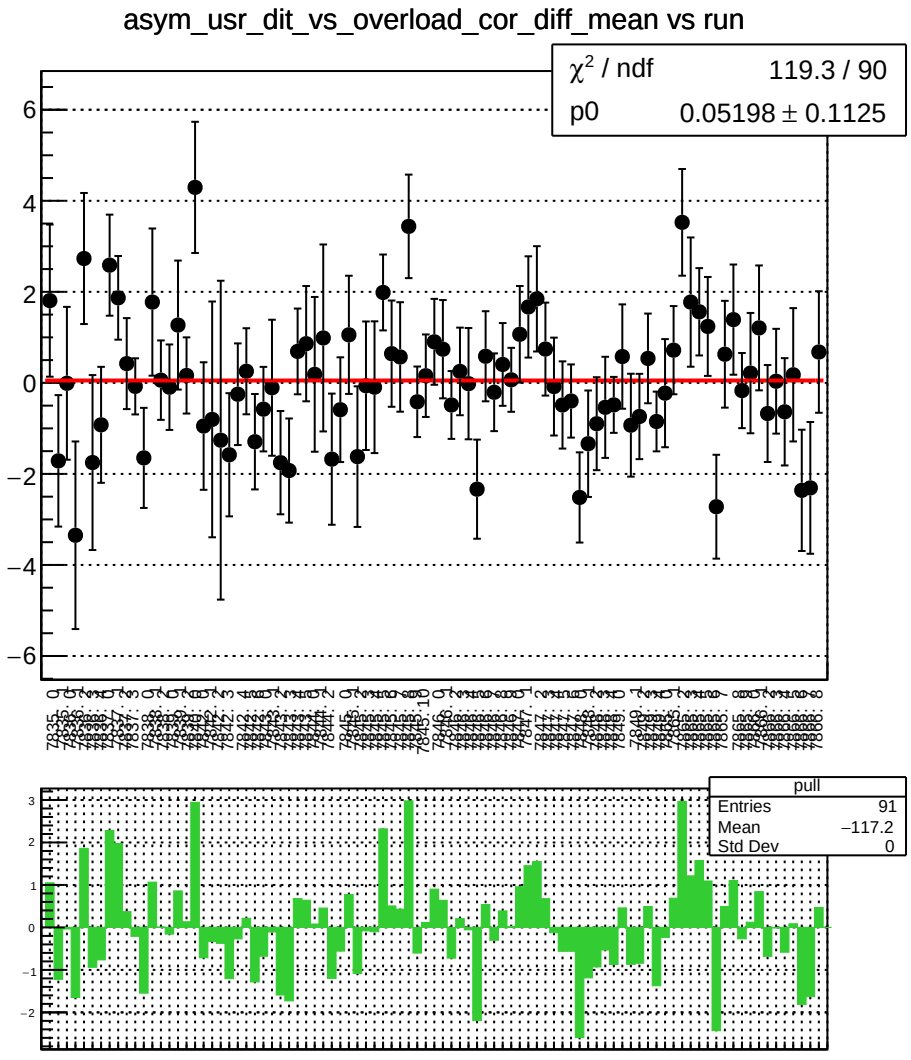

pull1D
Entries 91
Mean −0.006764
Std Dev 1.007

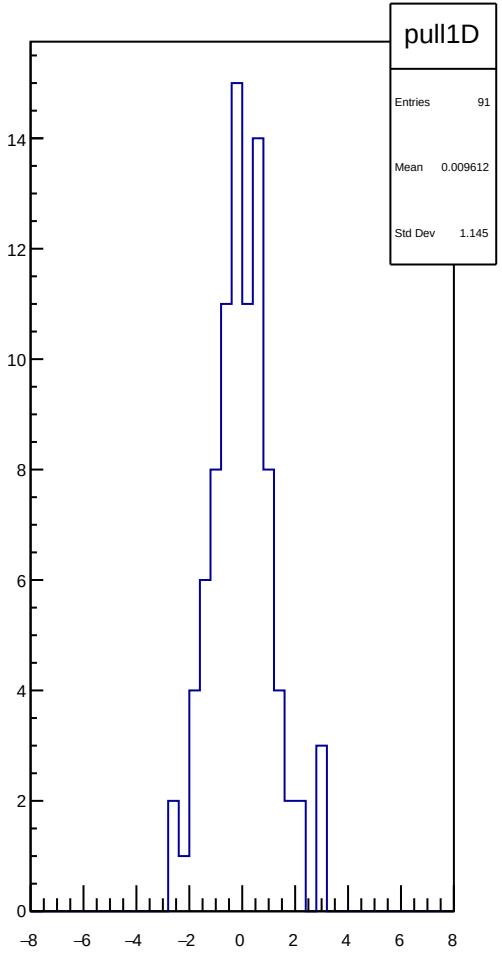

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 90
p0 88.5 ± 0.06916
350
300
250
200
150
100
50

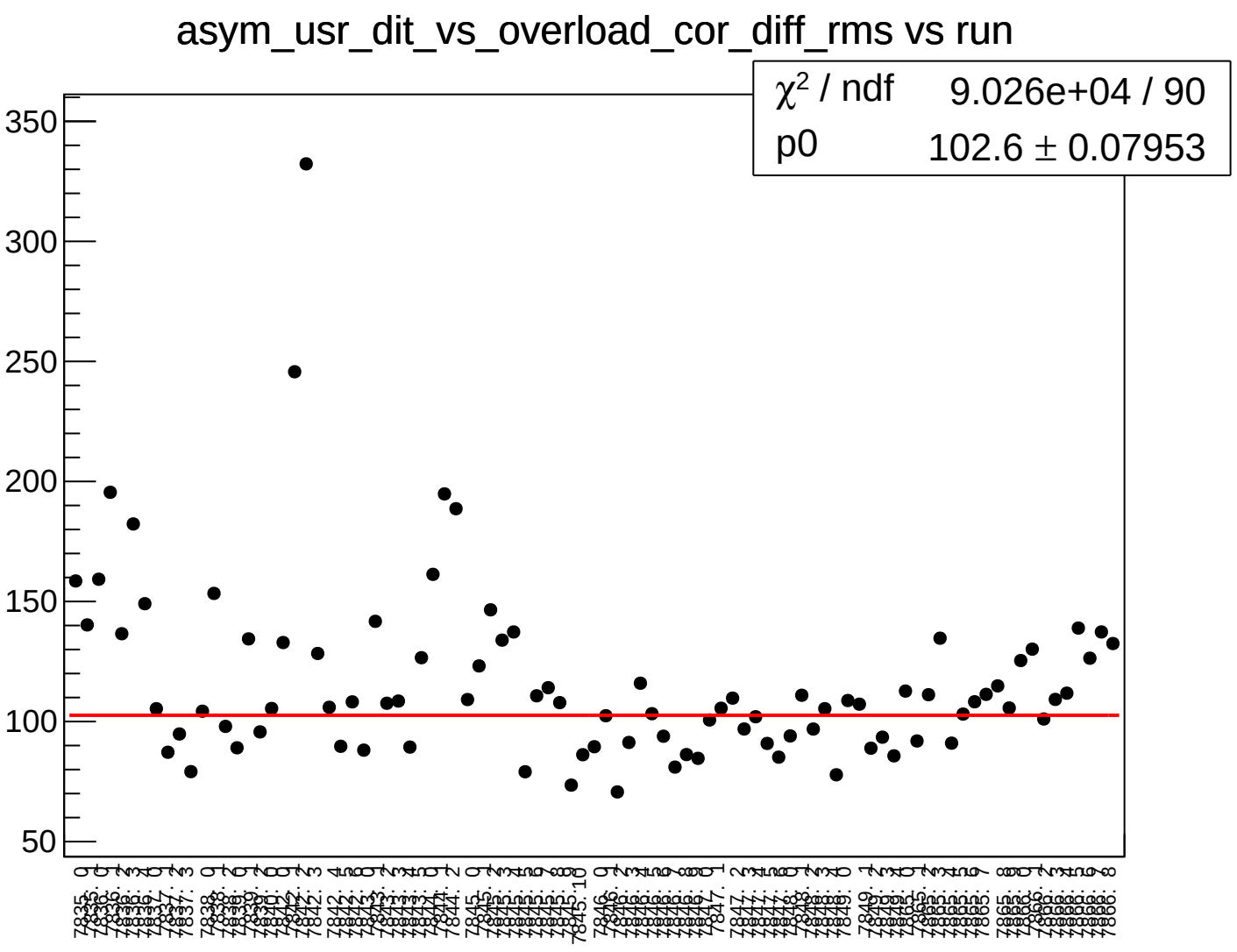

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.27 / 90
p0 0.05741± 0.09781
pull
Entries 91
Mean 51.01
Std Dev 45.57

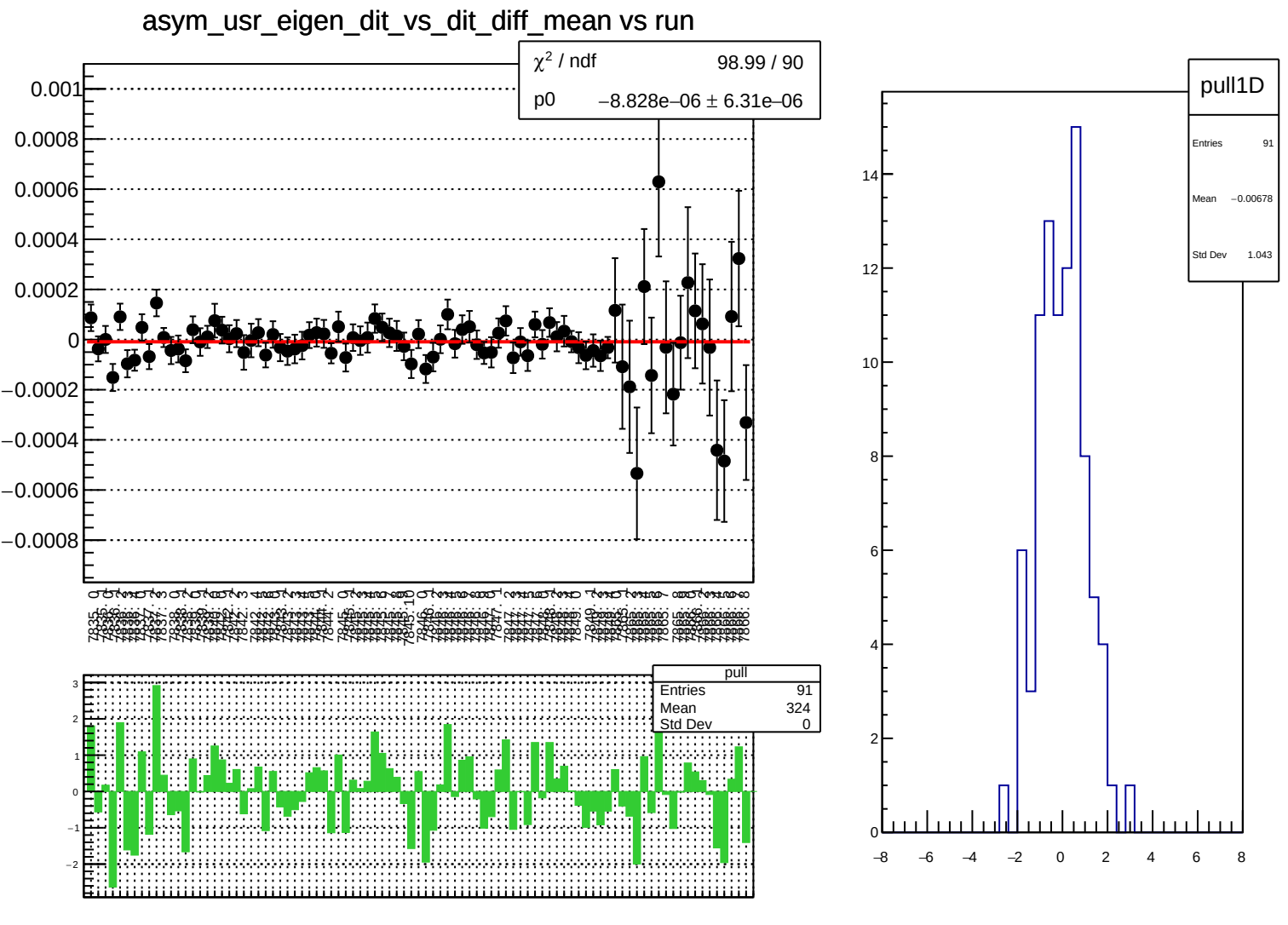

pull1D
Entries 91
Mean −0.006764
Std Dev 1.007

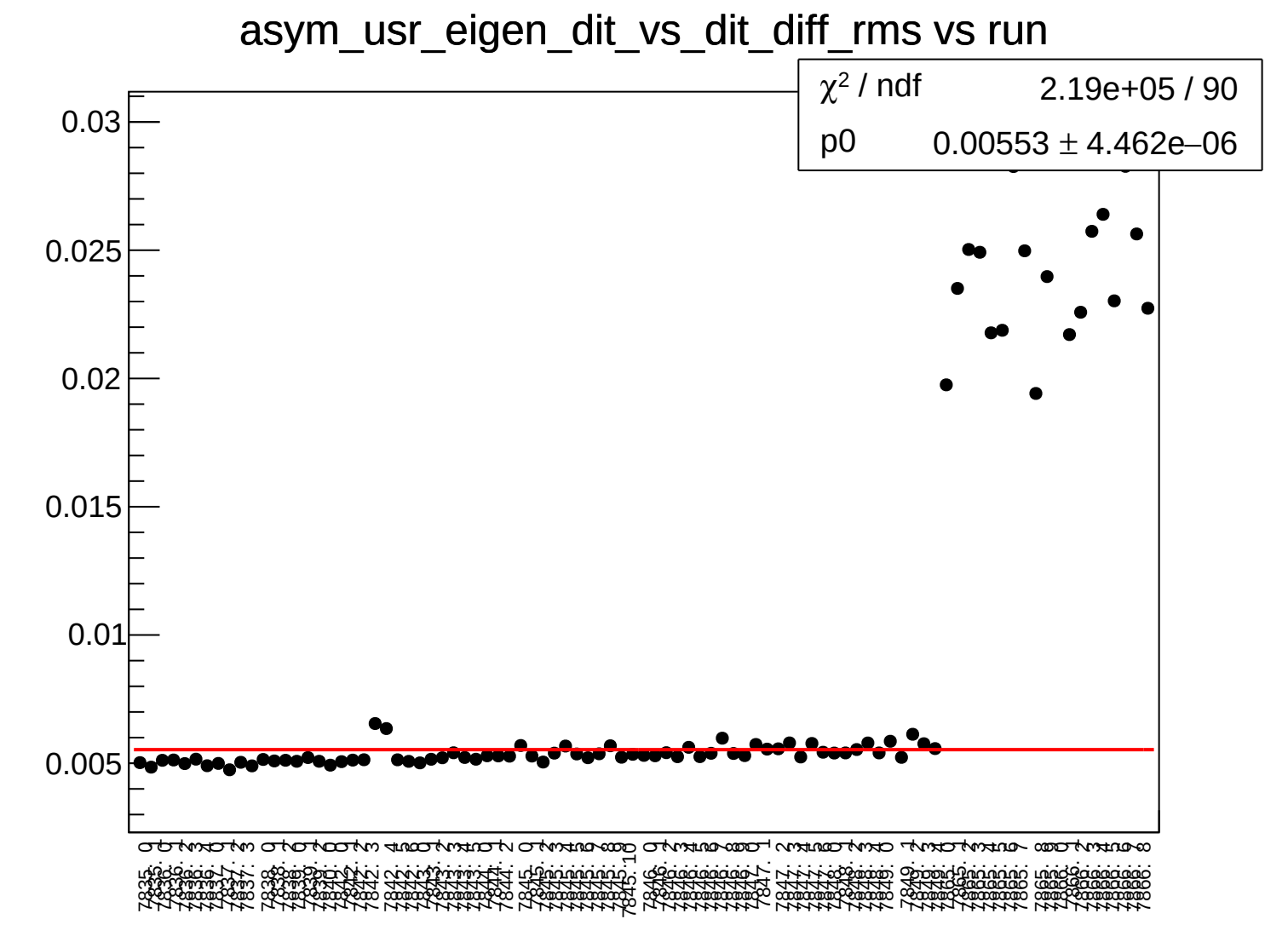

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 90
p0 88.5 ± 0.06916
350
300
250
200
150
100
50

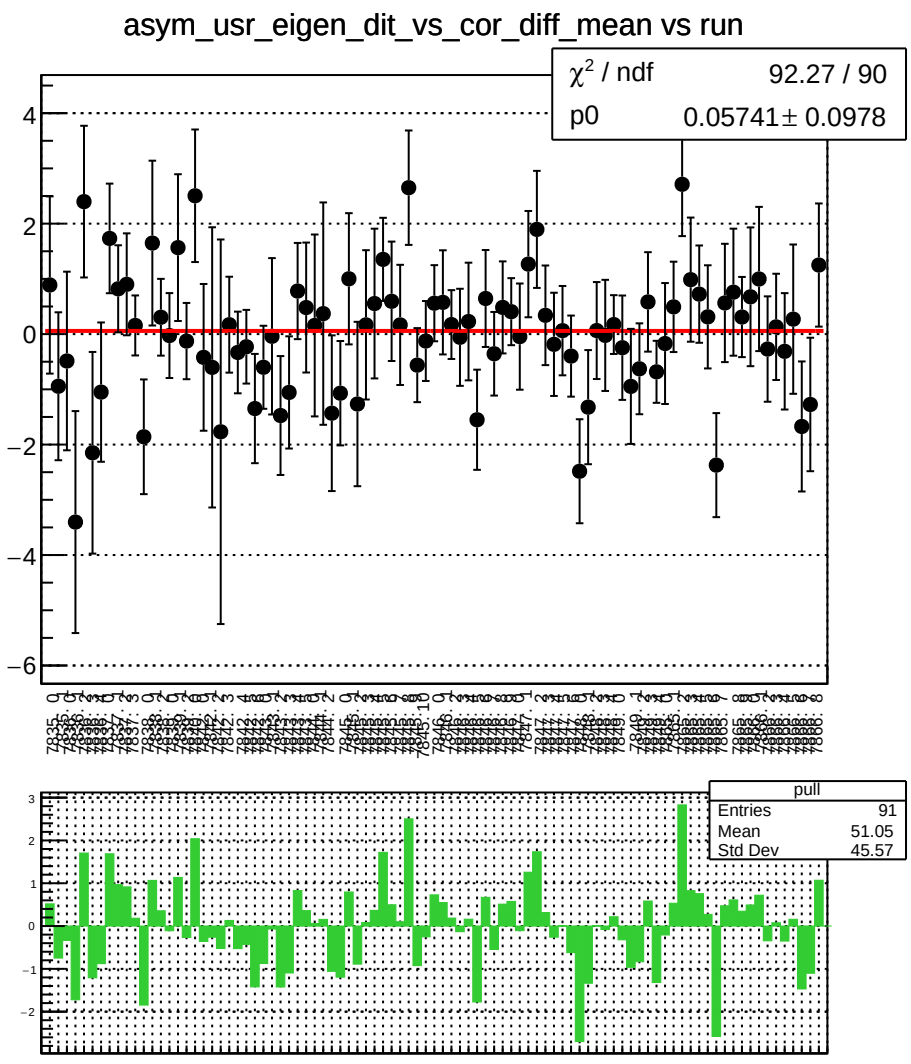

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 119.3 / 90
p0 0.05198 ± 0.1125
pull
Entries 91
Mean −117.2
Std Dev 0

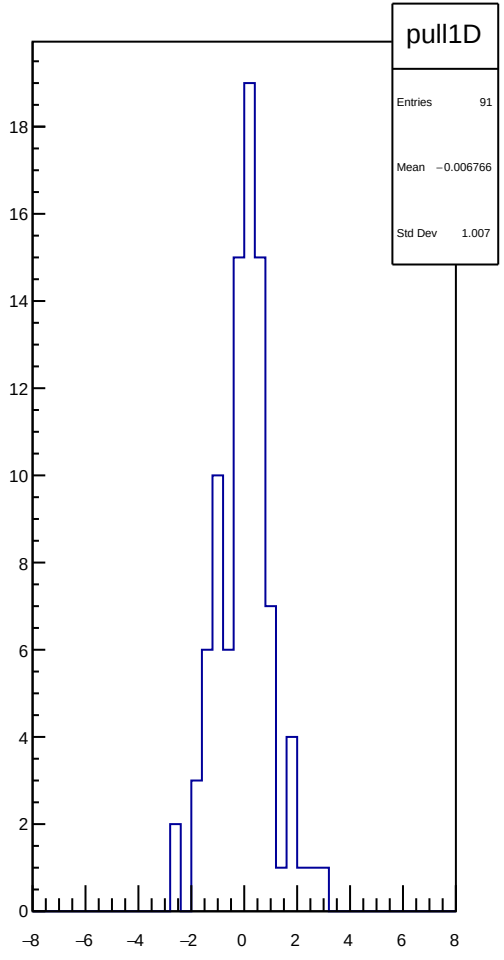

pull1D
Entries 91
Mean 0.009612
Std Dev 1.145

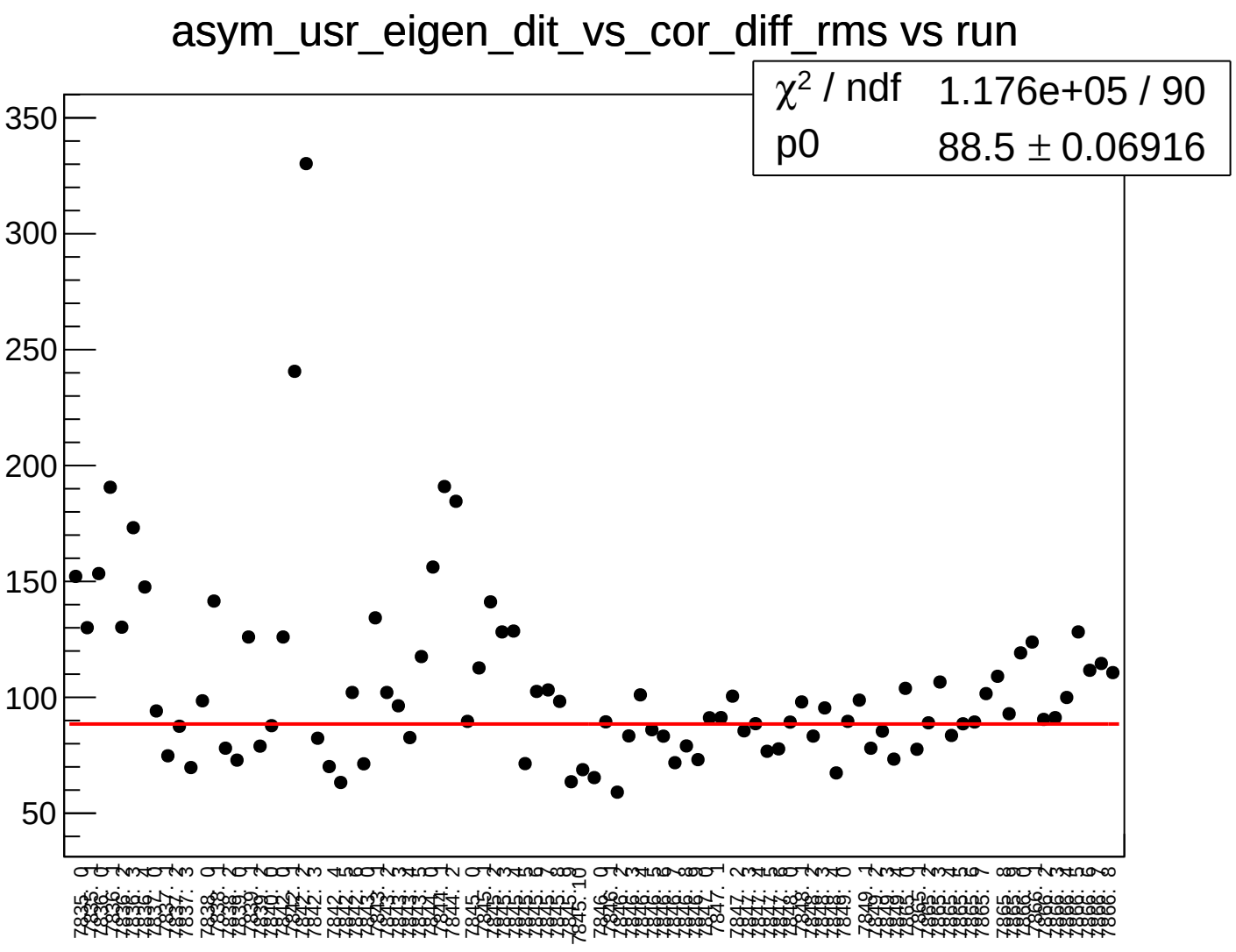

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.026e+04 / 90
p0 102.6 ± 0.07953
350
300
250
200
150
100
50

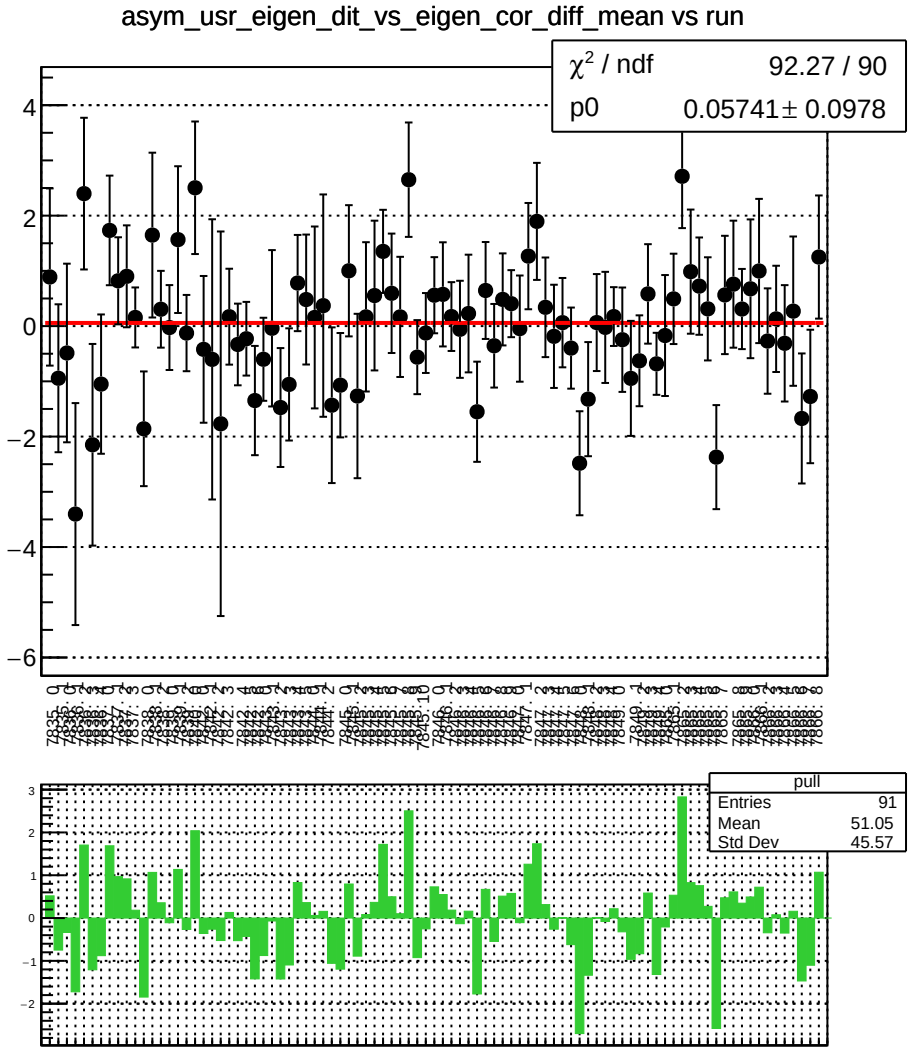

asym_usr_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.99 / 90
p0 −8.828e−06 ± 6.31e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 91
Mean 324
Std Dev 0
pull1D
Entries 91
Mean −0.00678
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

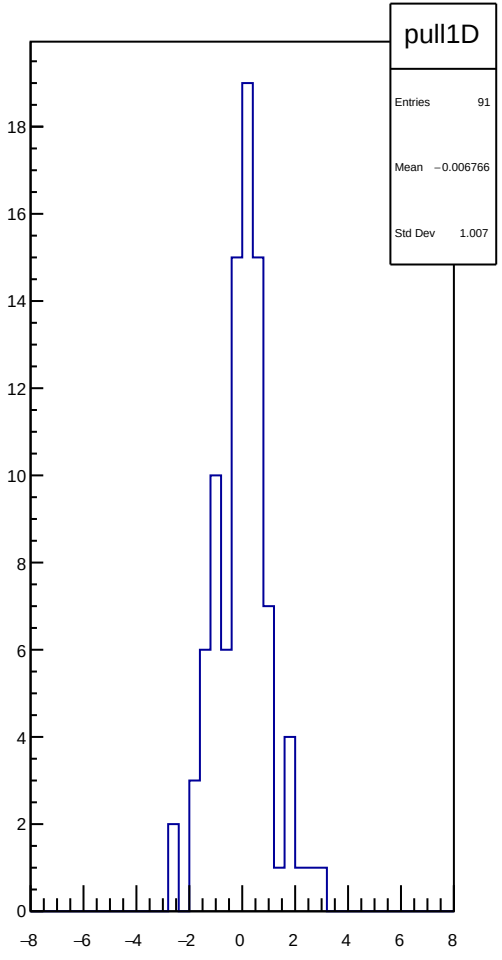

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.19e+05 / 90
p0 0.00553 ± 4.462e−06
0.03
0.025
0.02
0.015
0.01
0.005

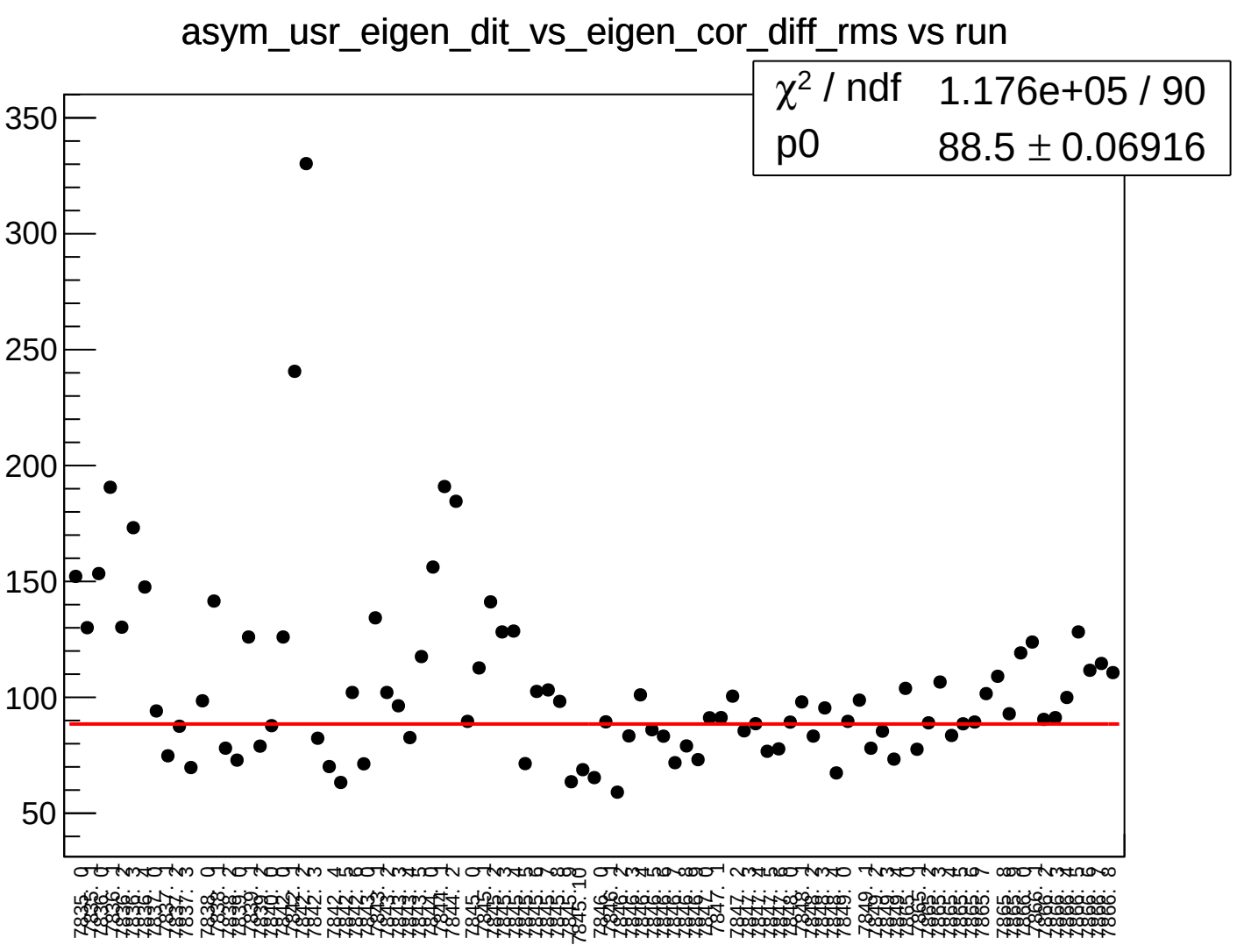

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.27 / 90
p0 0.05741 ± 0.0978
pull
Entries 91
Mean 51.05
Std Dev 45.57

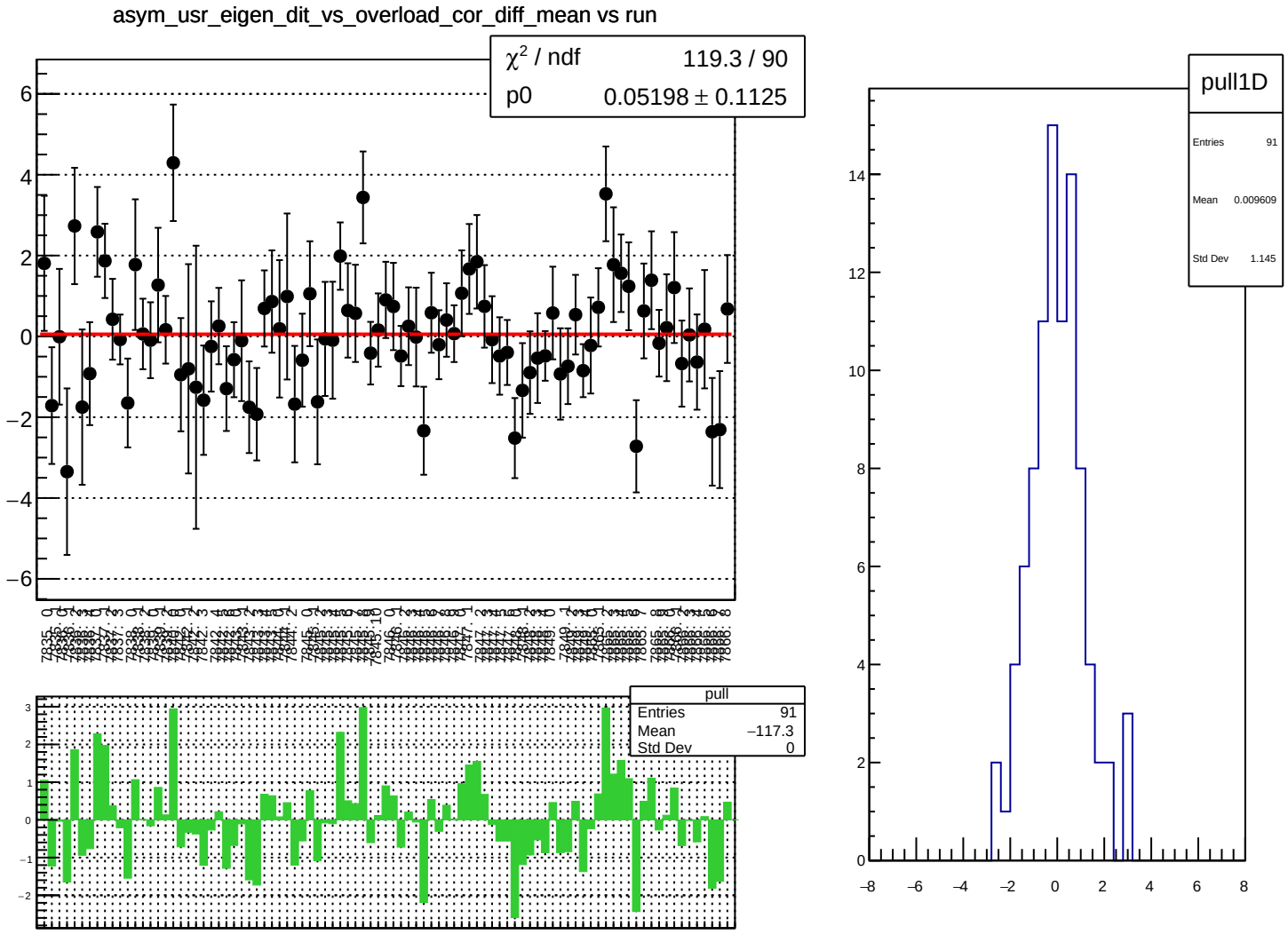

pull1D
Entries 91
Mean −0.006766
Std Dev 1.007

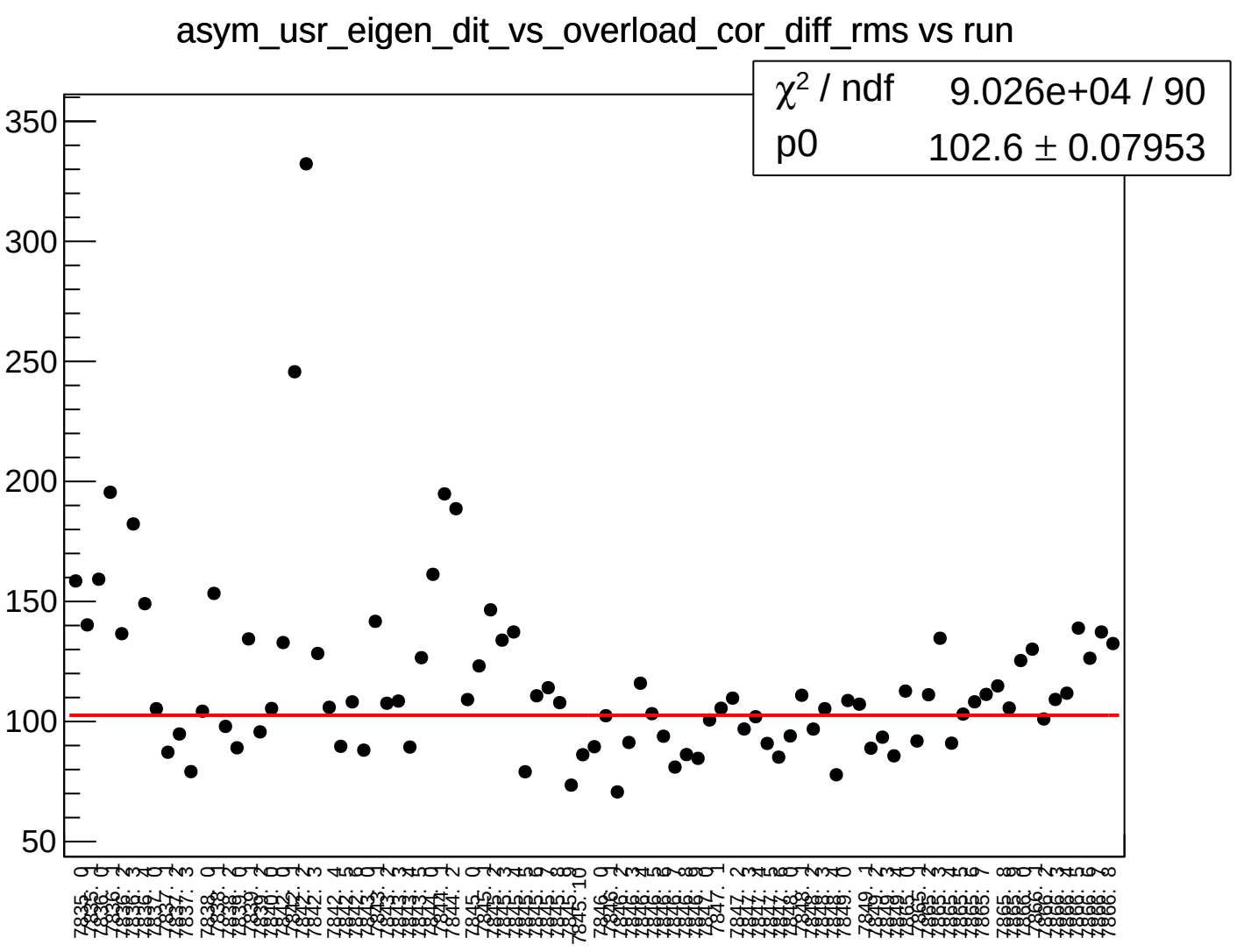

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 90
p0 88.5 ± 0.06916
350
300
250
200
150
100
50

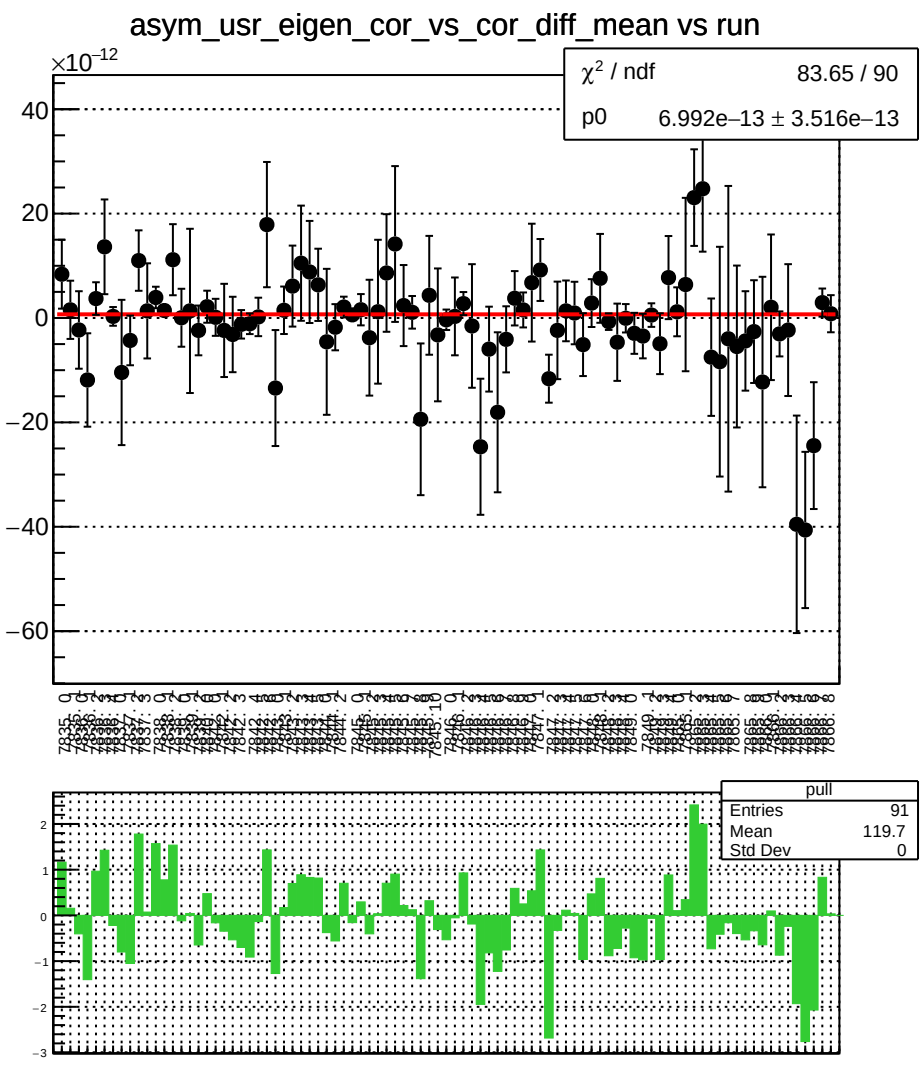

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.27 / 90
p0 0.05741 ± 0.0978
pull
Entries 91
Mean 51.05
Std Dev 45.57

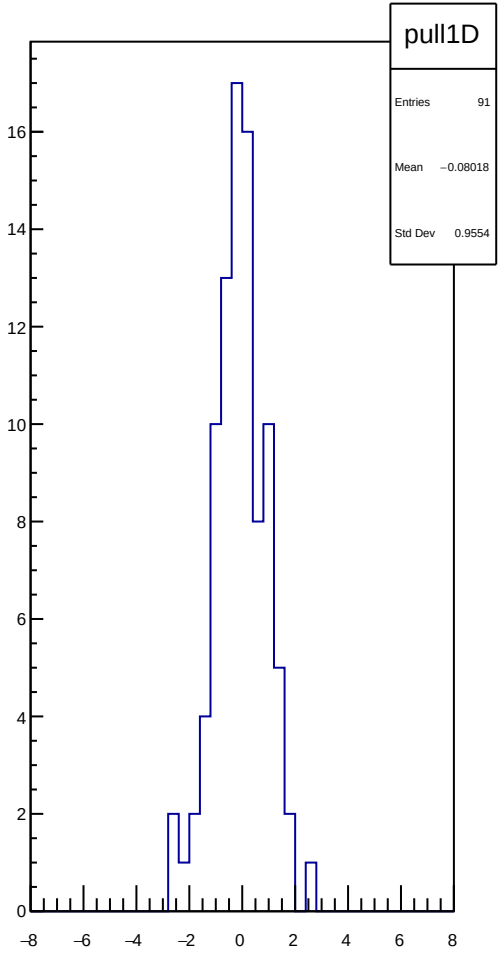

pull1D
Entries 91
Mean −0.006766
Std Dev 1.007

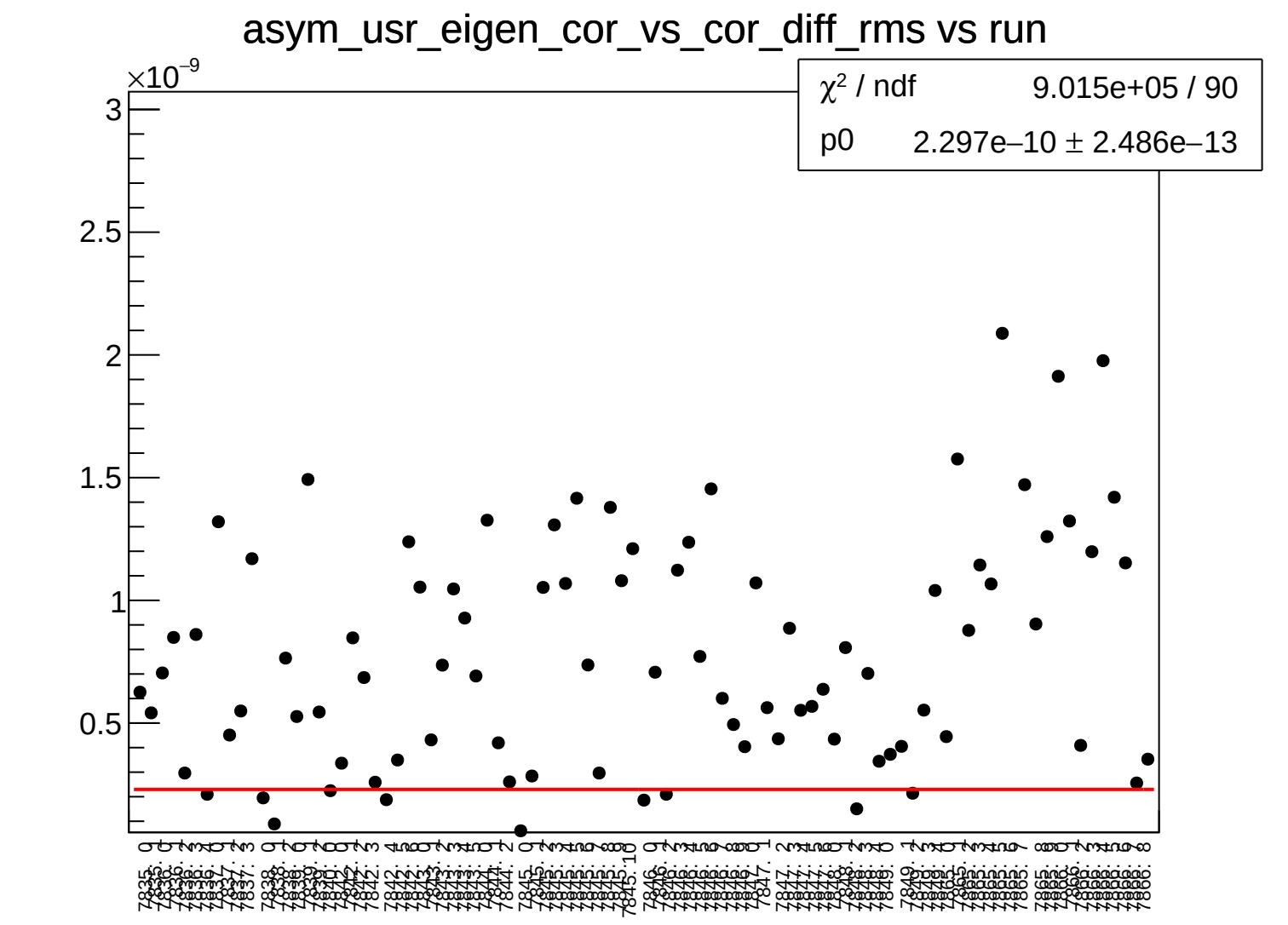

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 90
p0 88.5 ± 0.06916
350
300
250
200
150
100
50

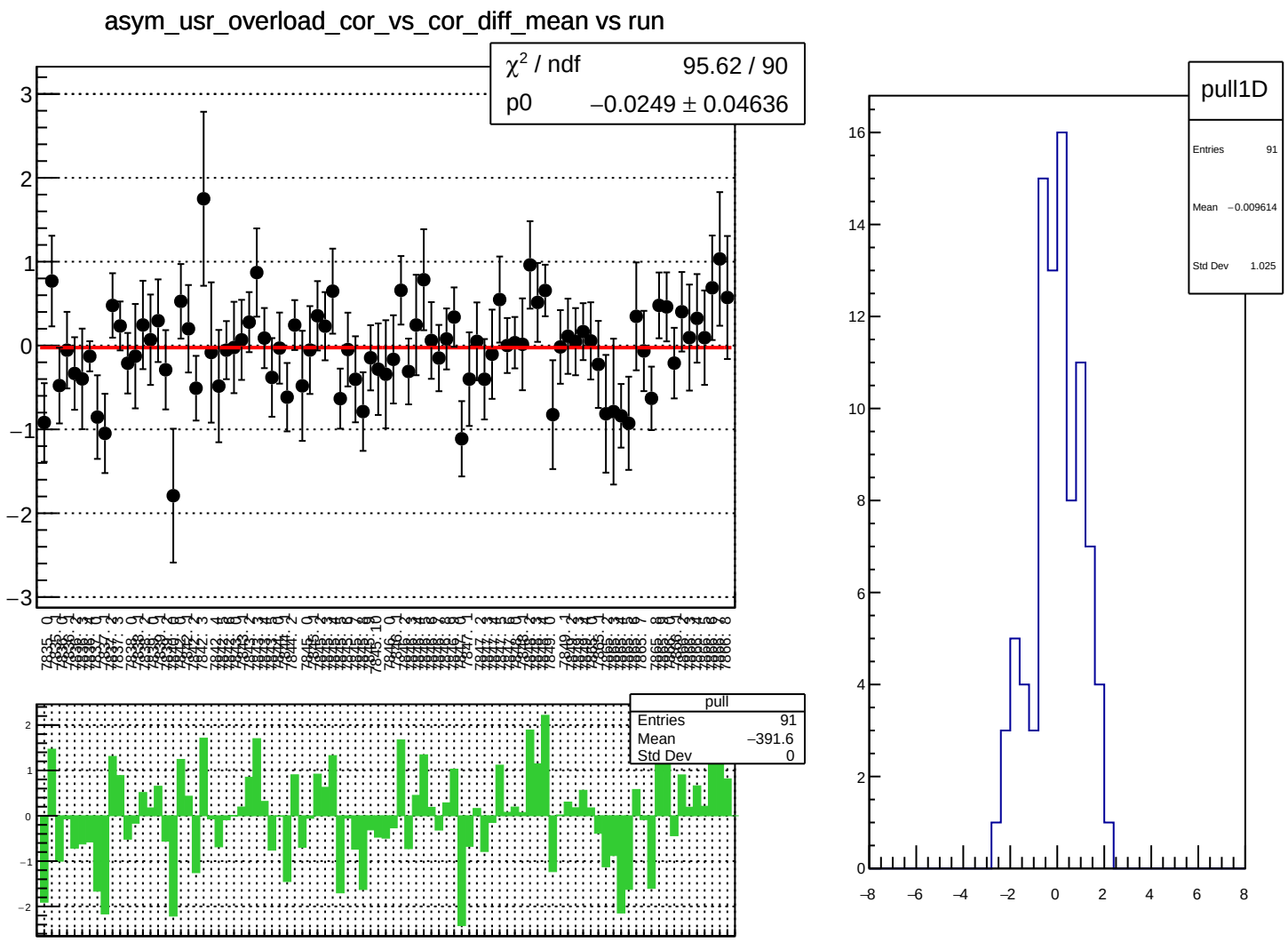

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 119.3 / 90
p0 0.05198 ± 0.1125
pull
Entries 91
Mean −117.3
Std Dev 0
pull1D
Entries 91
Mean 0.009609
Std Dev 1.145

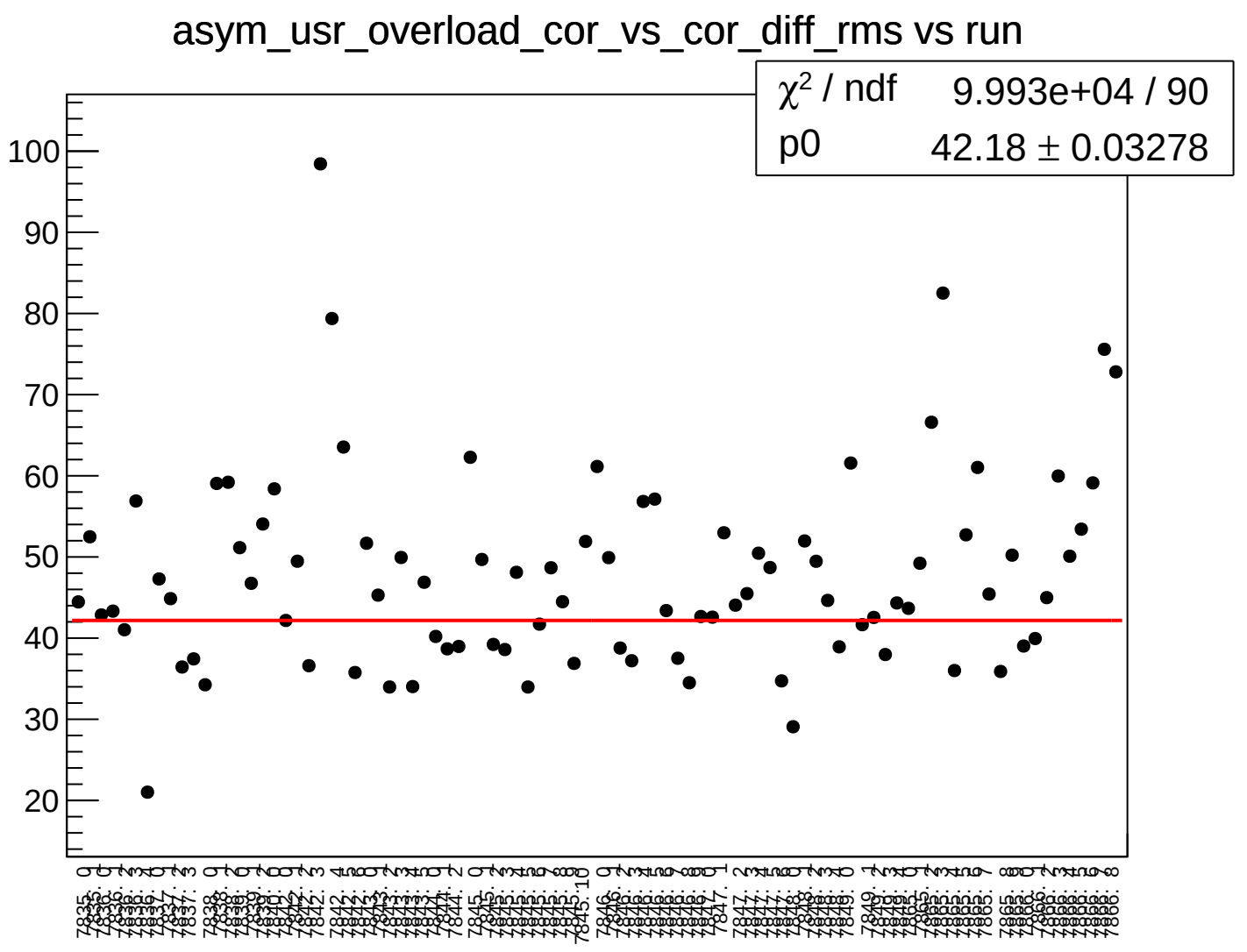

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.026e+04 / 90
p0 102.6 ± 0.07953
350
300
250
200
150
100
50

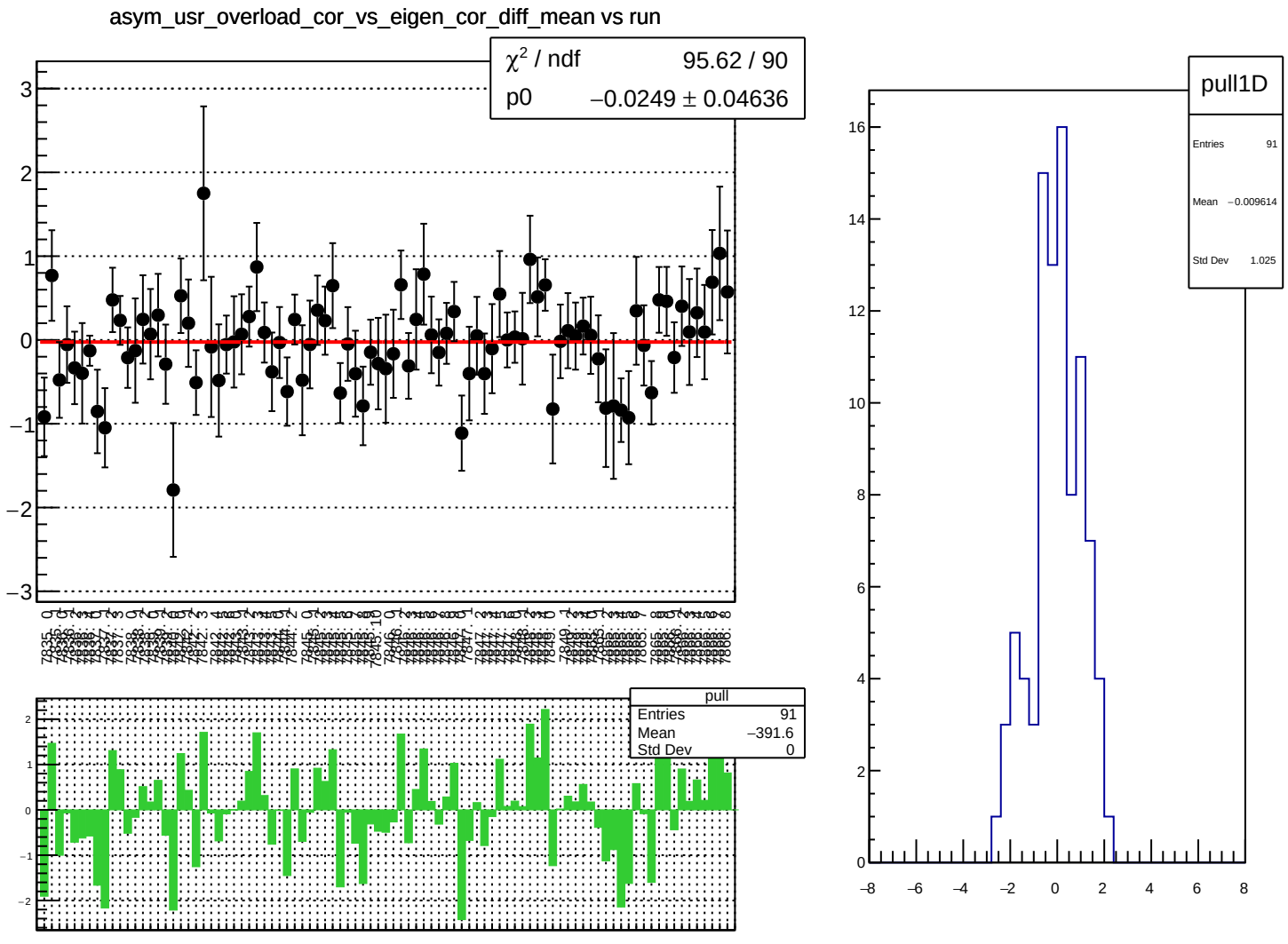

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.65 / 90
p0 6.992e−13 ± 3.516e−13
40
20
0
−20
−40
−60
pull
Entries 91
Mean 119.7
Std Dev 0
2
1
0
−1
−2
−3

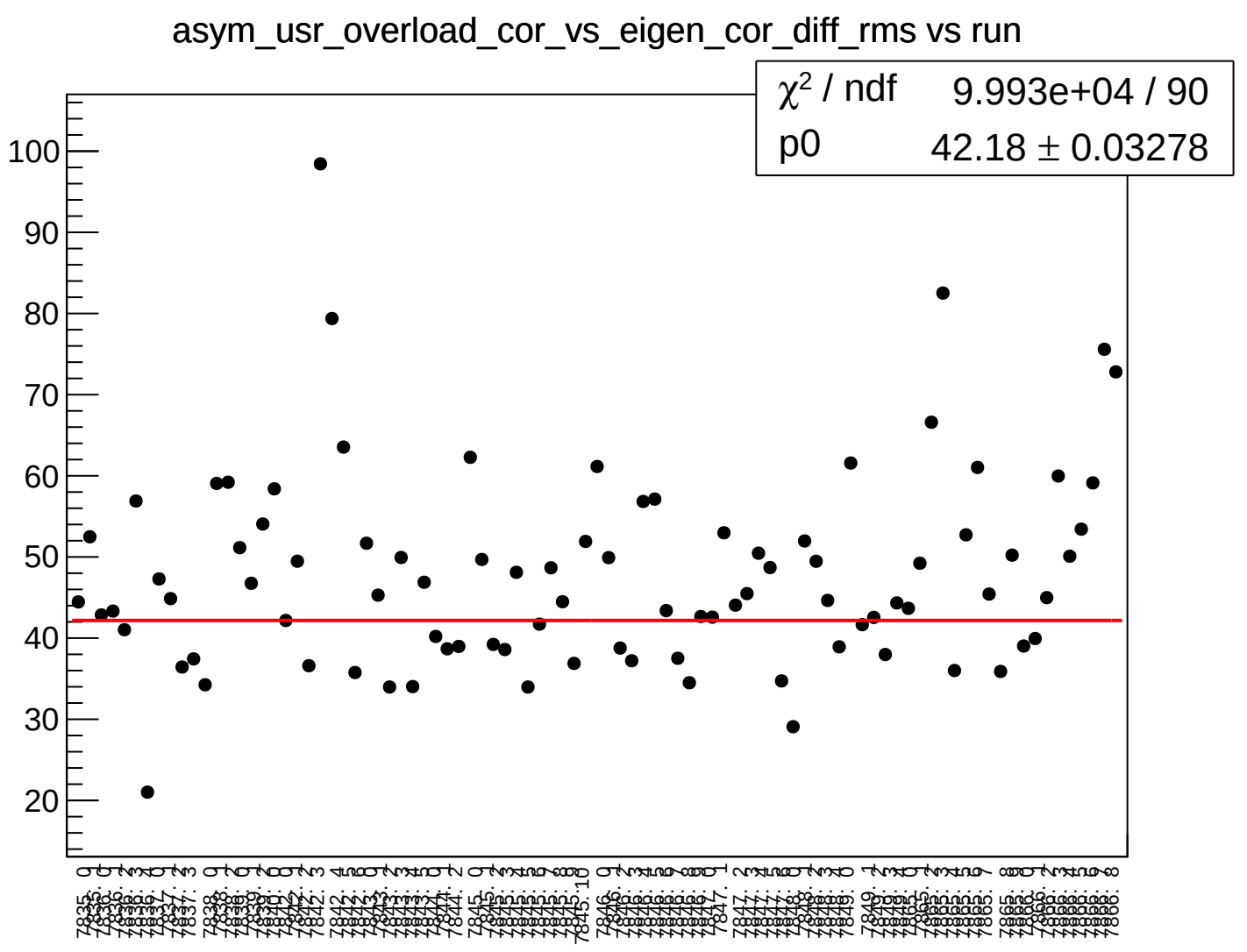

pull1D
Entries 91
Mean −0.08018
Std Dev 0.9554
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

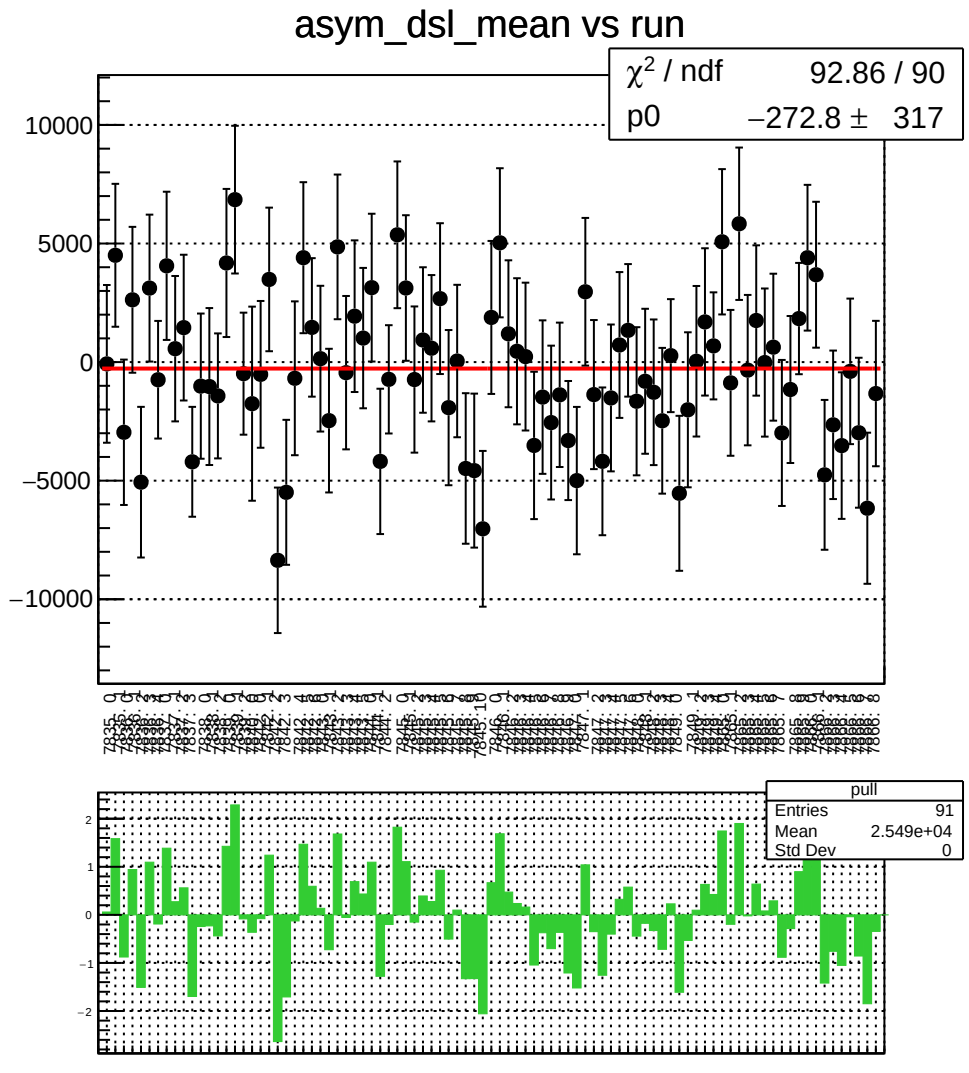

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.015e+05 / 90
p0 2.297e−10 ± 2.486e−13
3
2.5
2
1.5
1
0.5

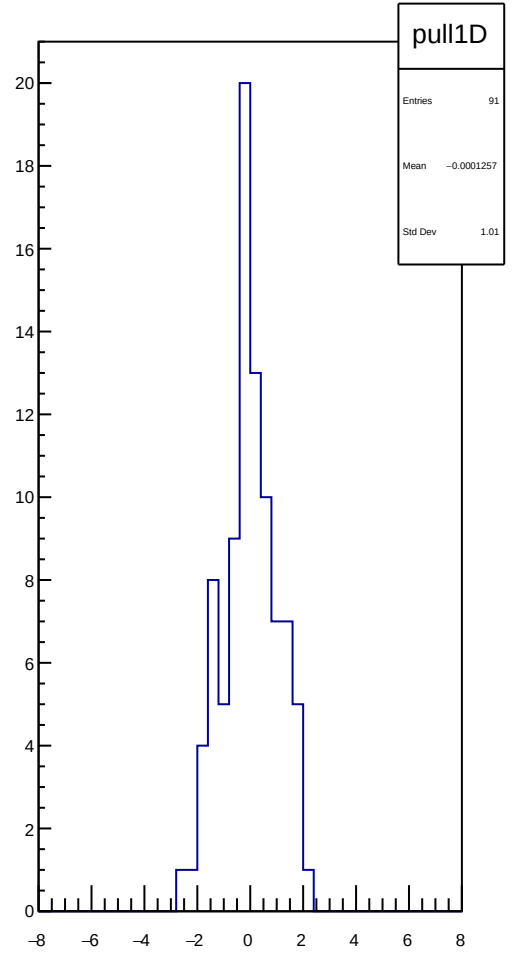

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 95.62 / 90
p0 −0.0249 ± 0.04636
pull
Entries 91
Mean −391.6
Std Dev 0
pull1D
Entries 91
Mean −0.009614
Std Dev 1.025

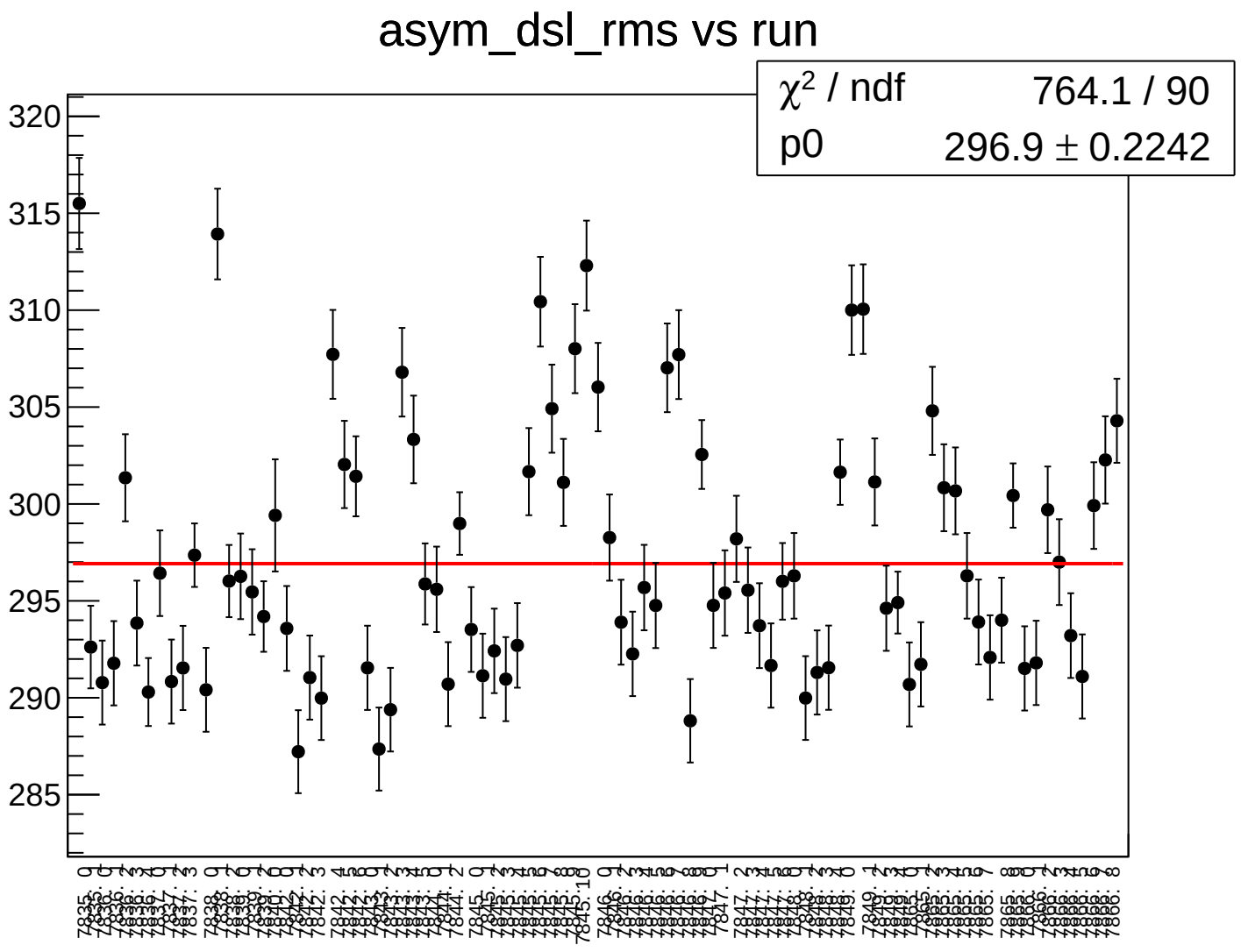

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.993e+04 / 90
p0 42.18 ± 0.03278
100
90
80
70
60
50
40
30
20

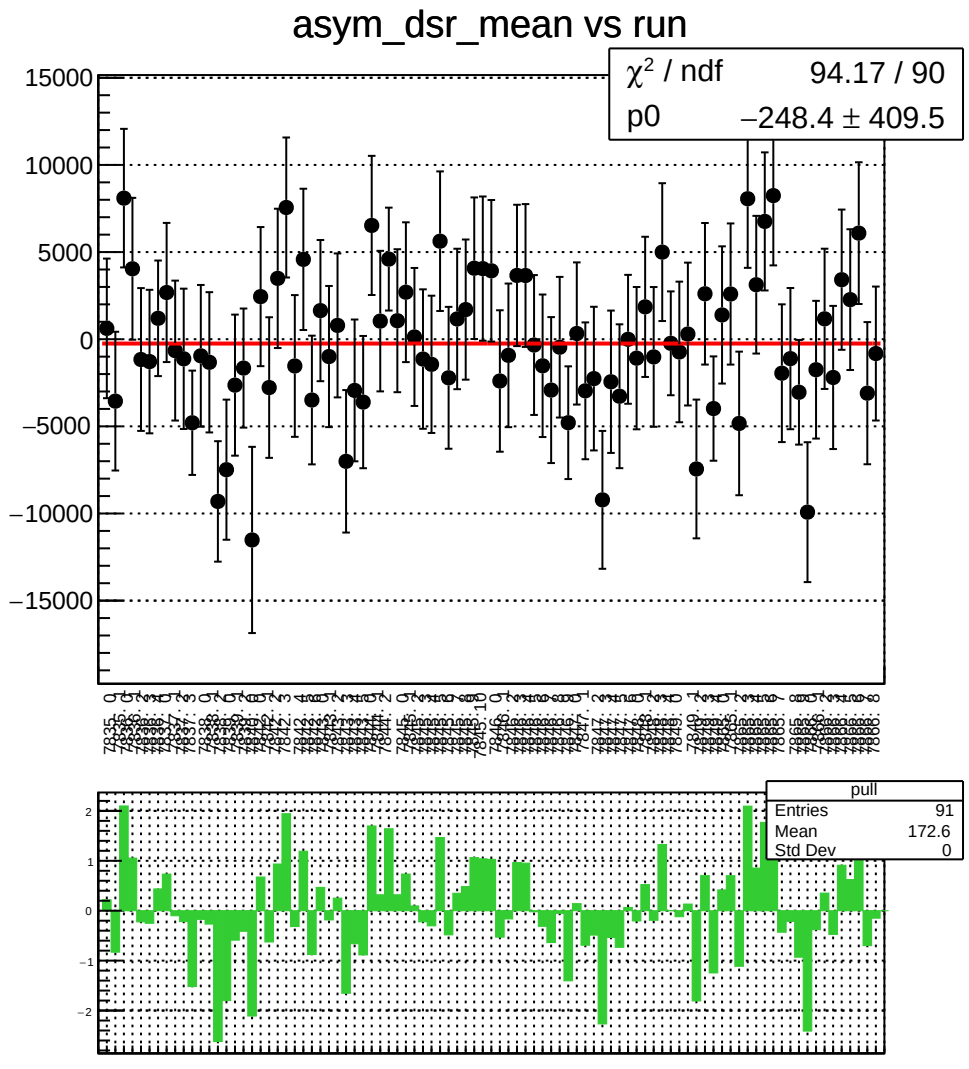

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.62 / 90
p0 −0.0249 ± 0.04636
pull
Entries 91
Mean −391.6
Std Dev 0
pull1D
Entries 91
Mean −0.009614
Std Dev 1.025

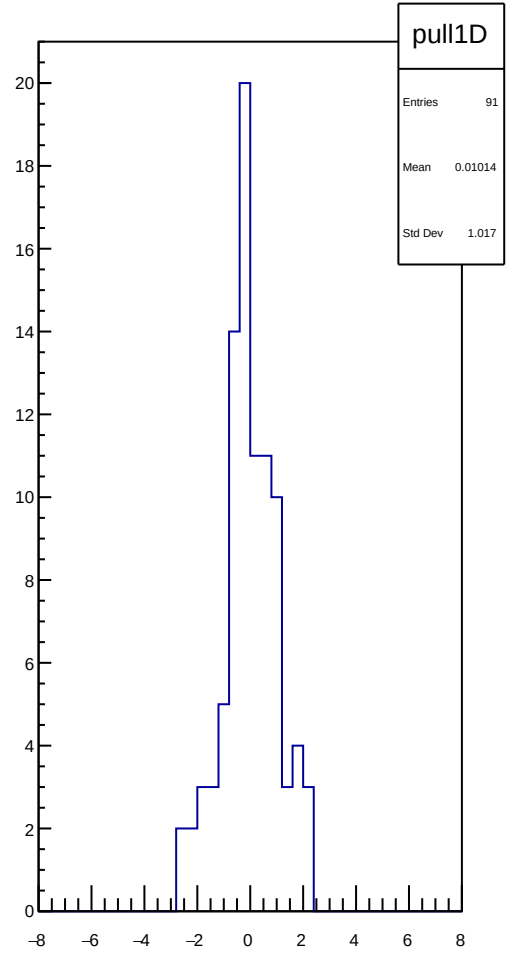

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.993e+04 / 90
p0 42.18 ± 0.03278
100
90
80
70
60
50
40
30
20

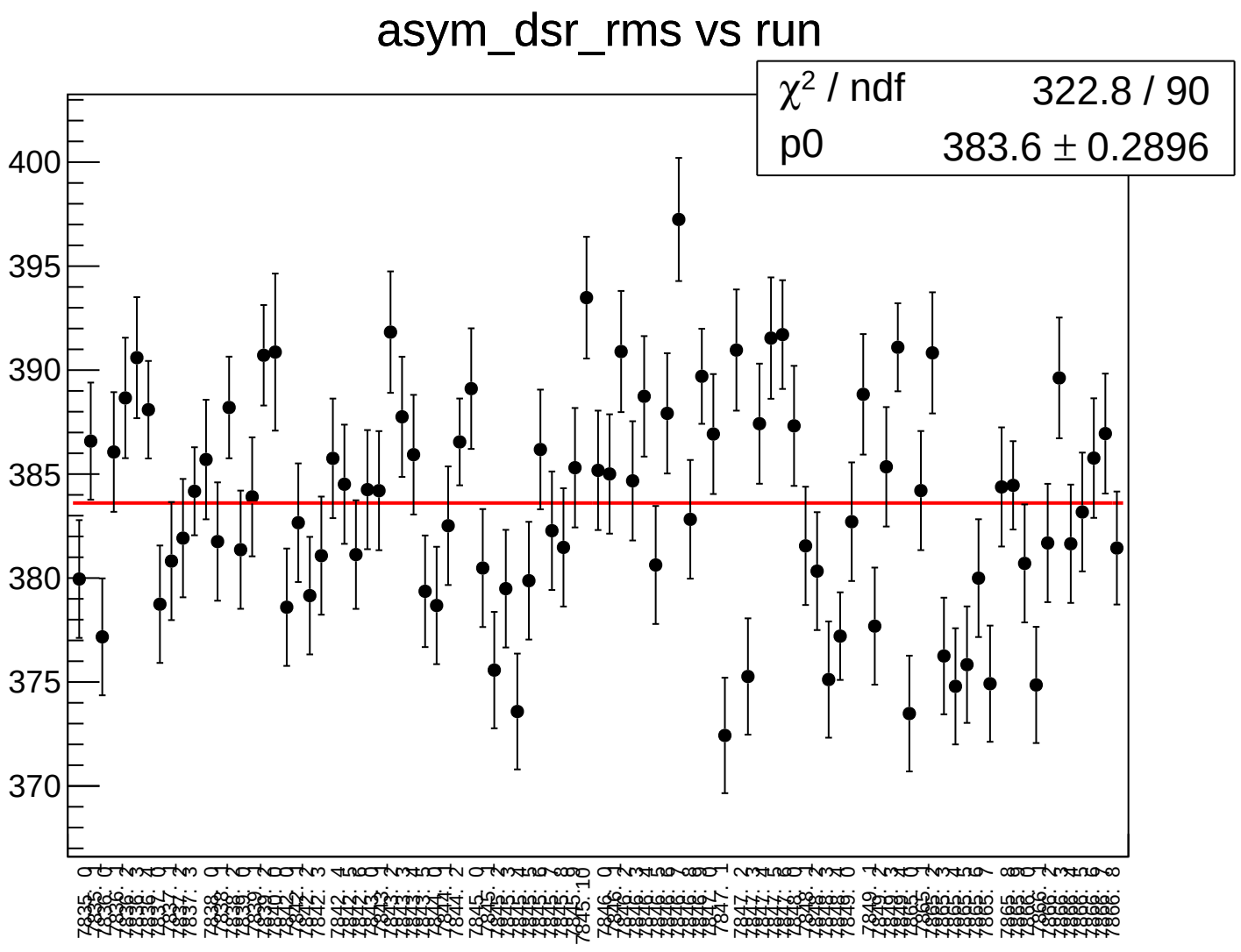

asym_dsl_mean vs run
χ² / ndf 92.86 / 90
p0 −272.8 ± 317
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 2.549e+04
Std Dev 0
2
1
0
−1
−2

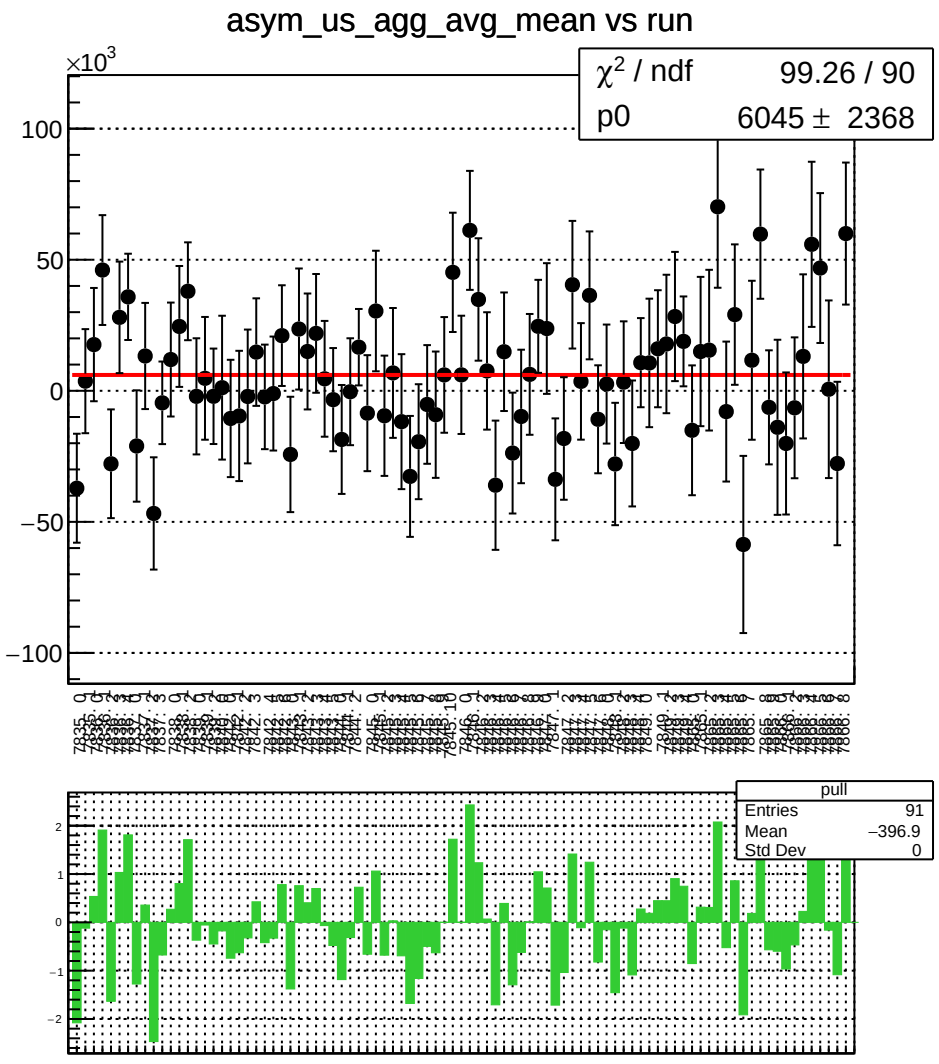

pull1D
Entries 91
Mean −0.0001257
Std Dev 1.01
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

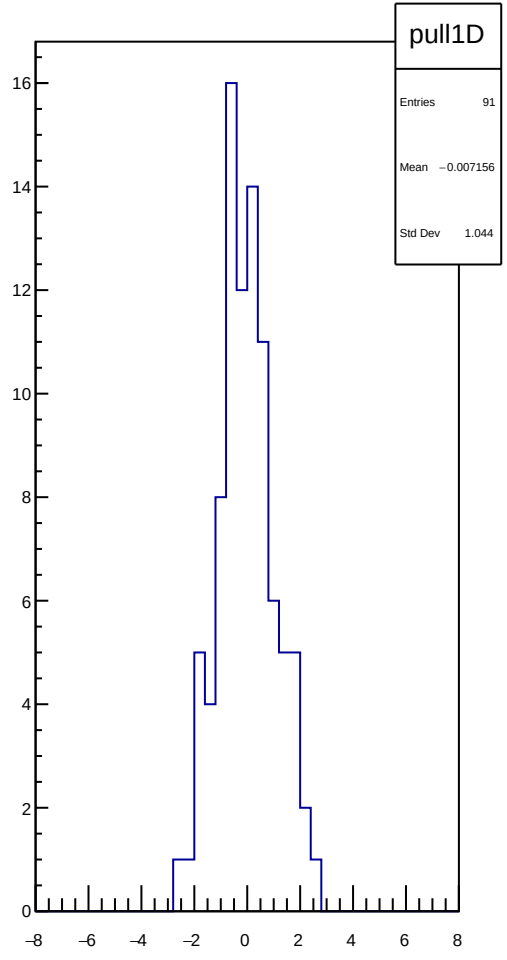

asym_dsl_rms vs run
χ² / ndf 764.1 / 90
p0 296.9 ± 0.2242
320
315
310
305
300
295
290
285

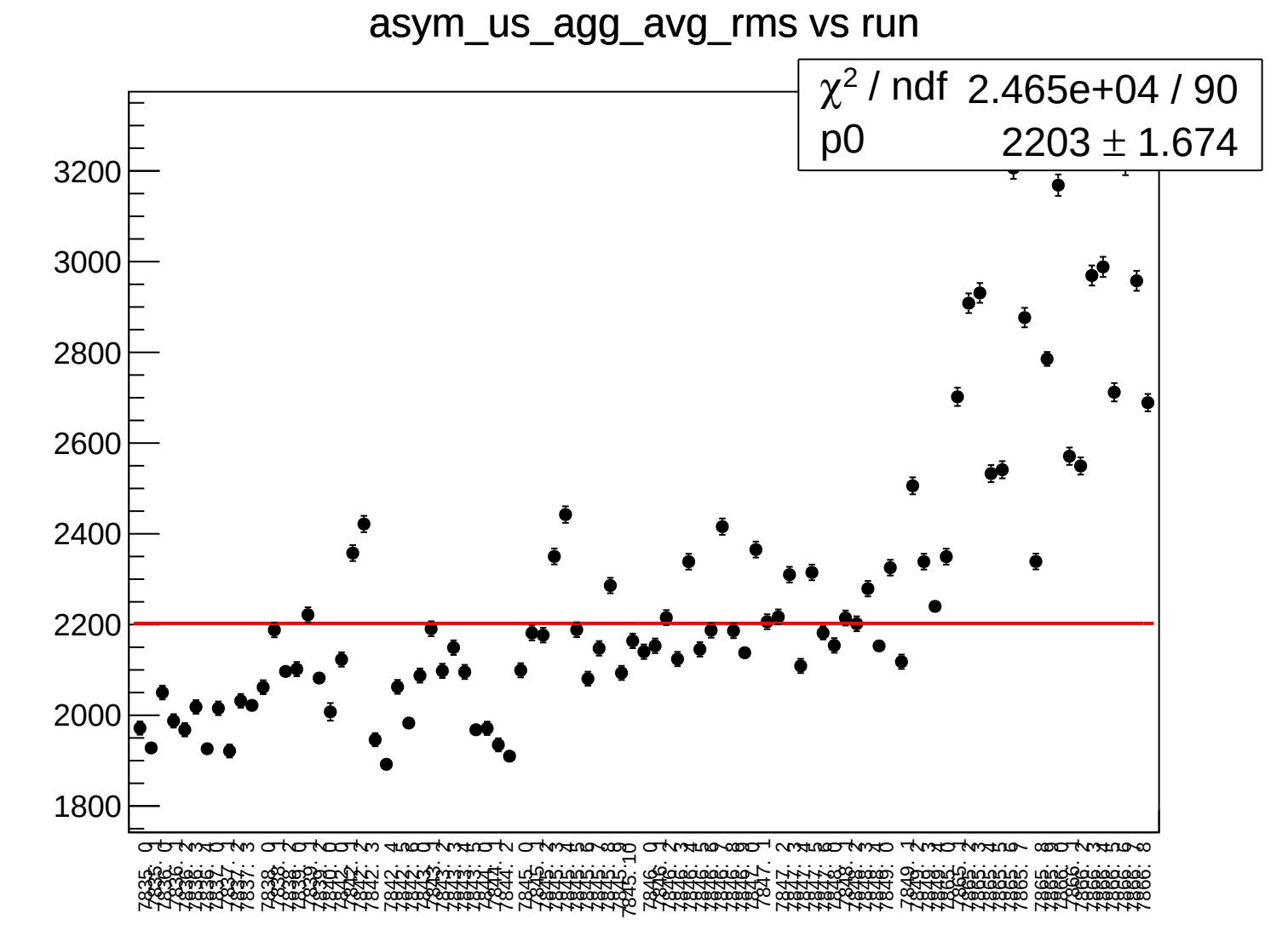

asym_dsr_mean vs run
χ² / ndf 94.17 / 90
p0 −248.4 ± 409.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 172.6
Std Dev 0
2
1
0
−1
−2

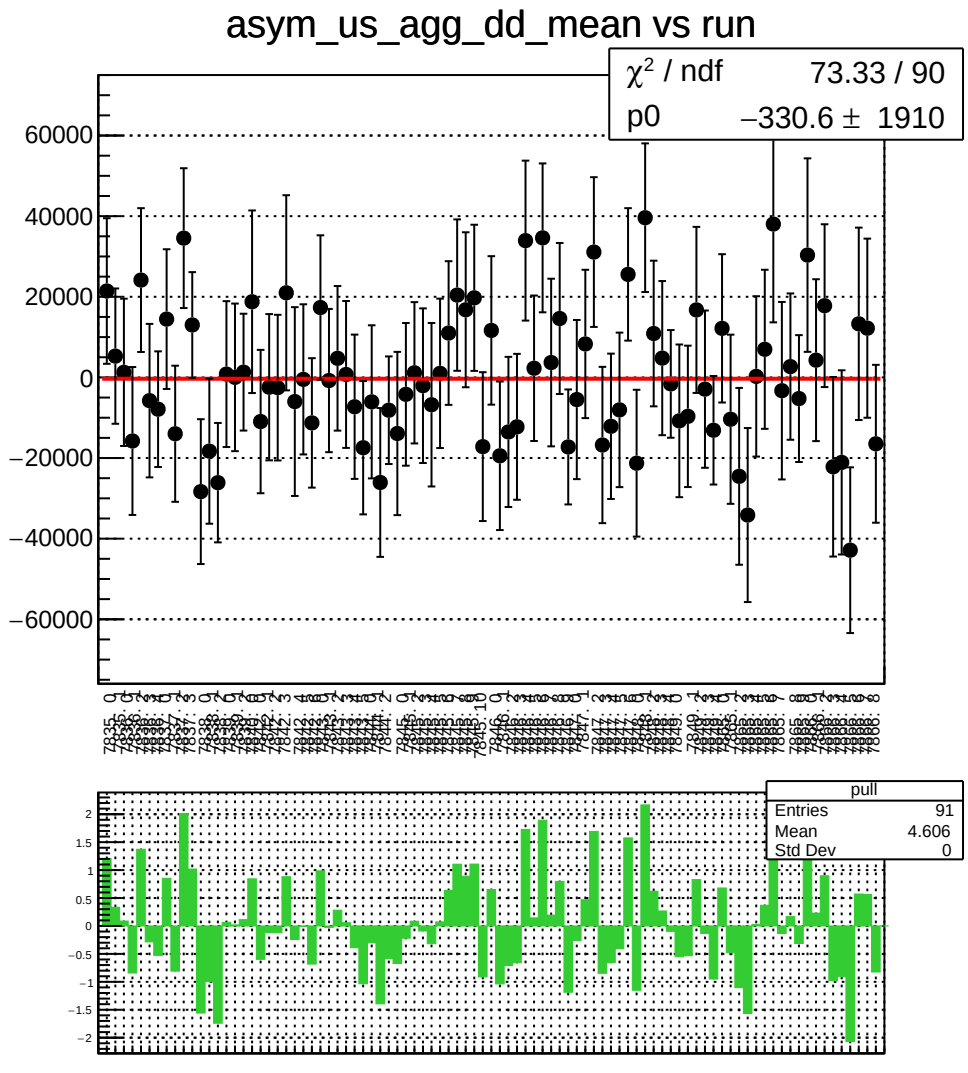

pull1D
Entries 91
Mean 0.01014
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

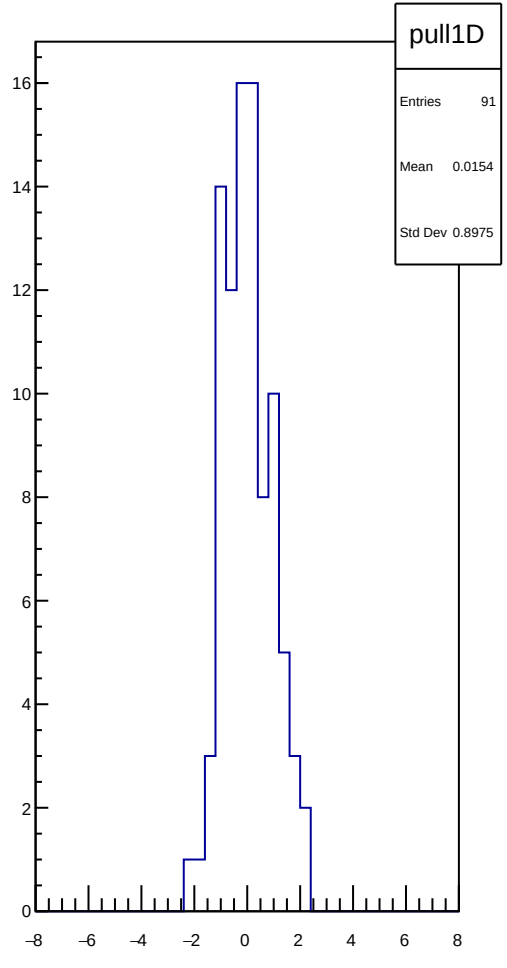

asym_dsr_rms vs run
χ² / ndf 322.8 / 90
p0 383.6 ± 0.2896
400
395
390
385
380
375
370

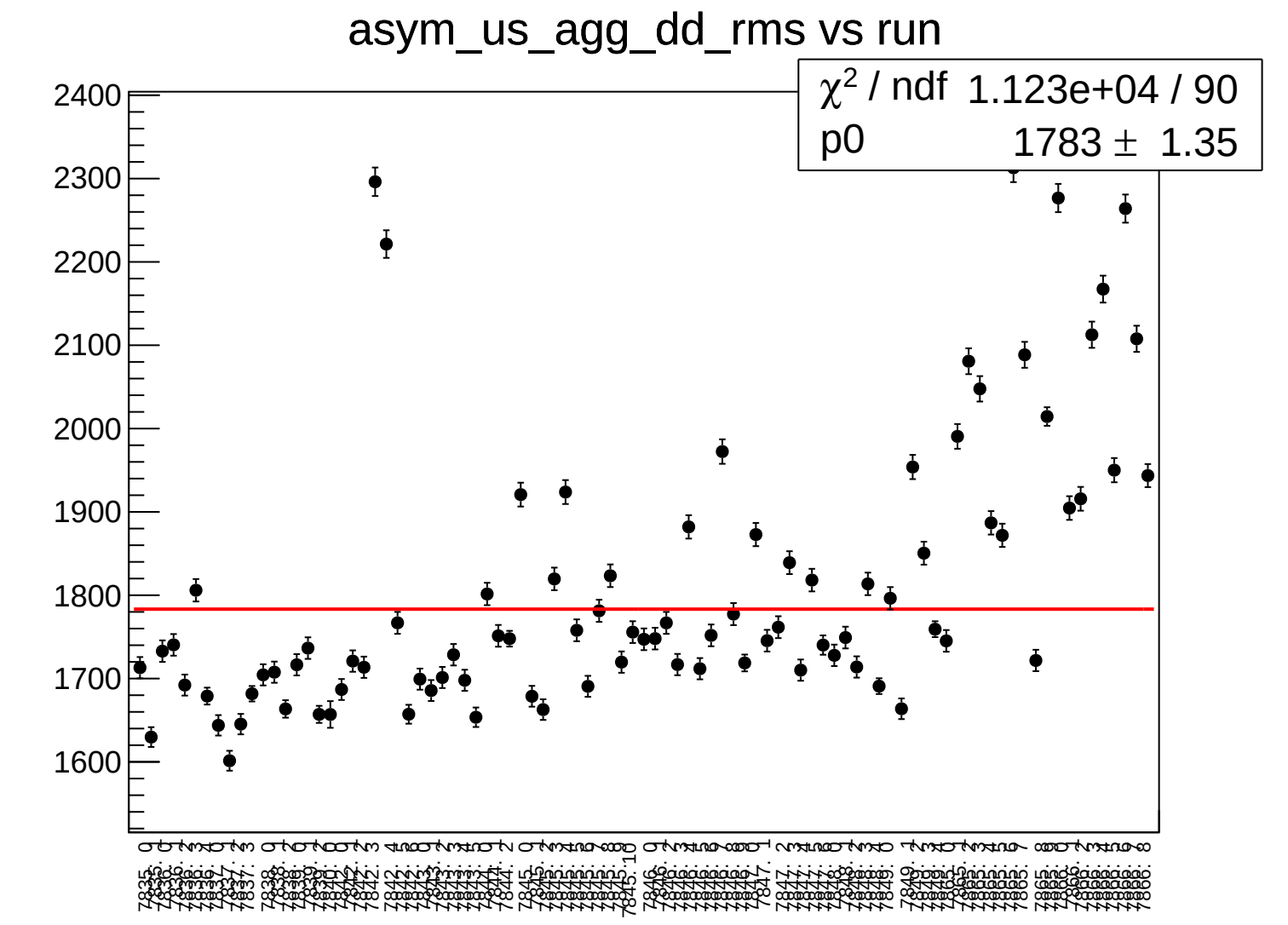

asym_us_agg_avg_mean vs run
×10^3
χ^2 / ndf 99.26 / 90
p0 6045 ± 2368
100
50
0
−50
−100
pull
Entries 91
Mean −396.9
Std Dev 0
2
1
0
−1
−2

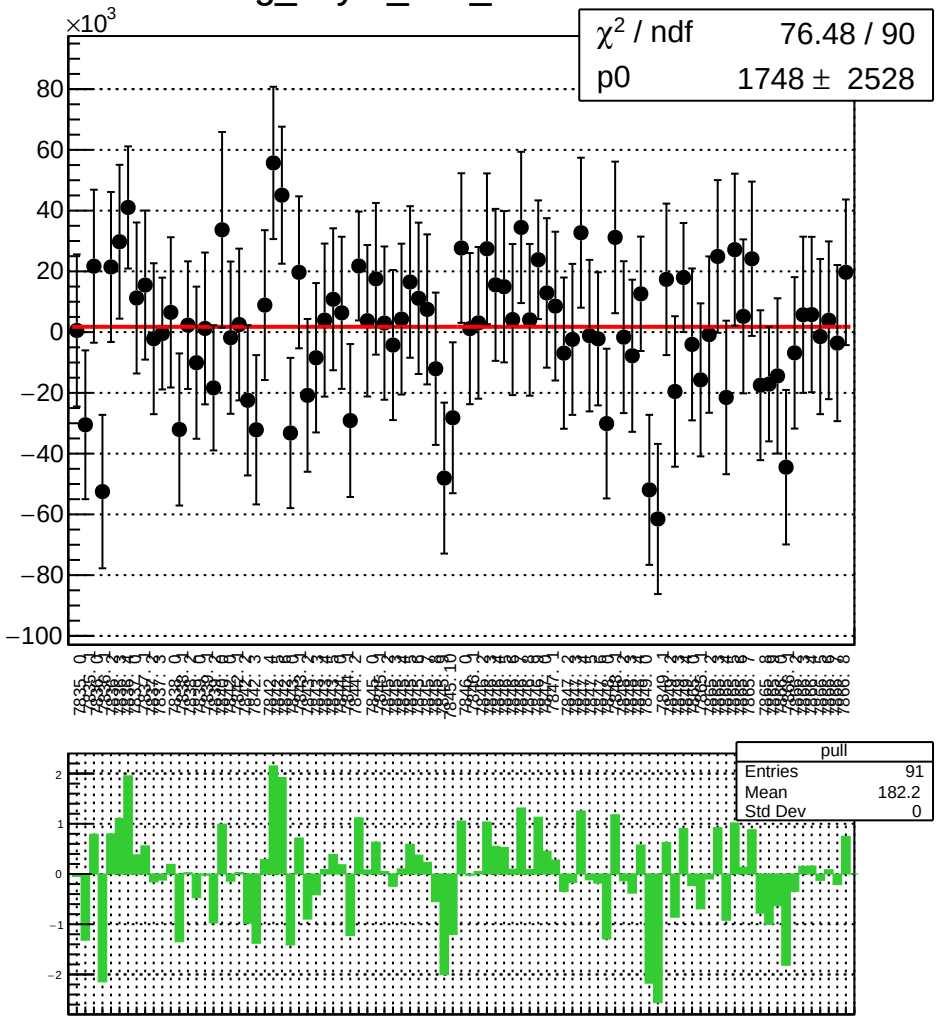

pull1D
Entries 91
Mean −0.007156
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

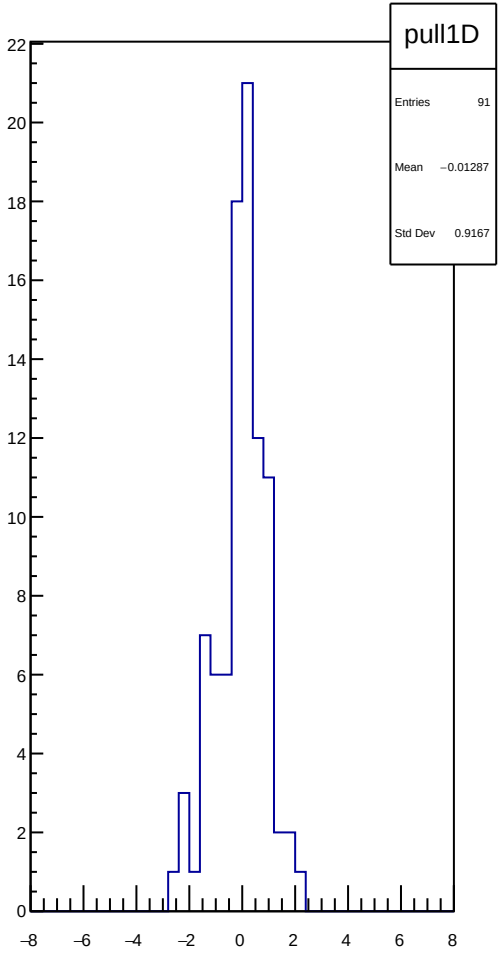

asym_us_agg_avg_rms vs run
χ² / ndf 2.465e+04 / 90
p0 2203 ± 1.674
3200
3000
2800
2600
2400
2200
2000
1800

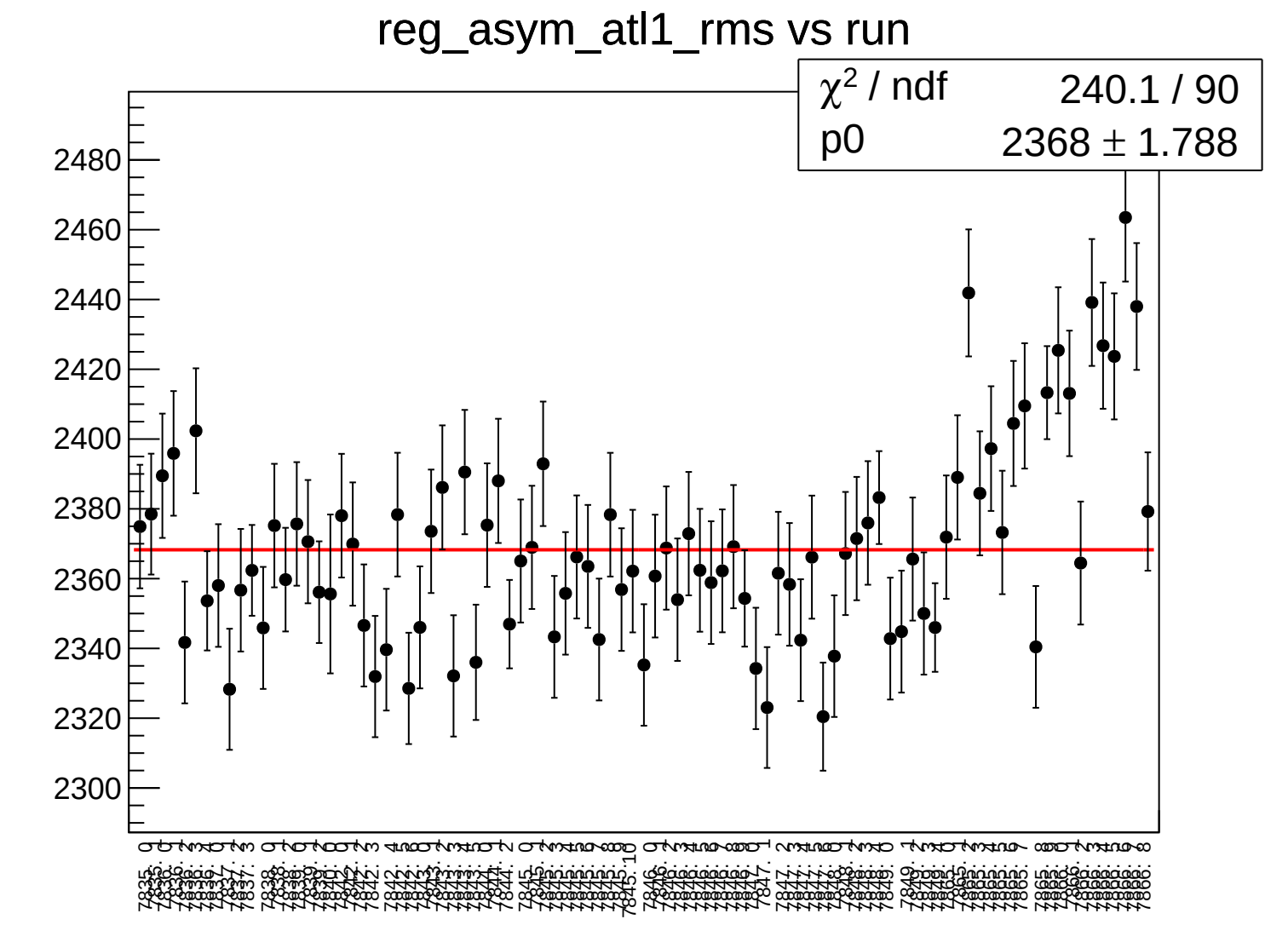

asym_us_agg_dd_mean vs run
χ² / ndf 73.33 / 90
p0 −330.6 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 4.606
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

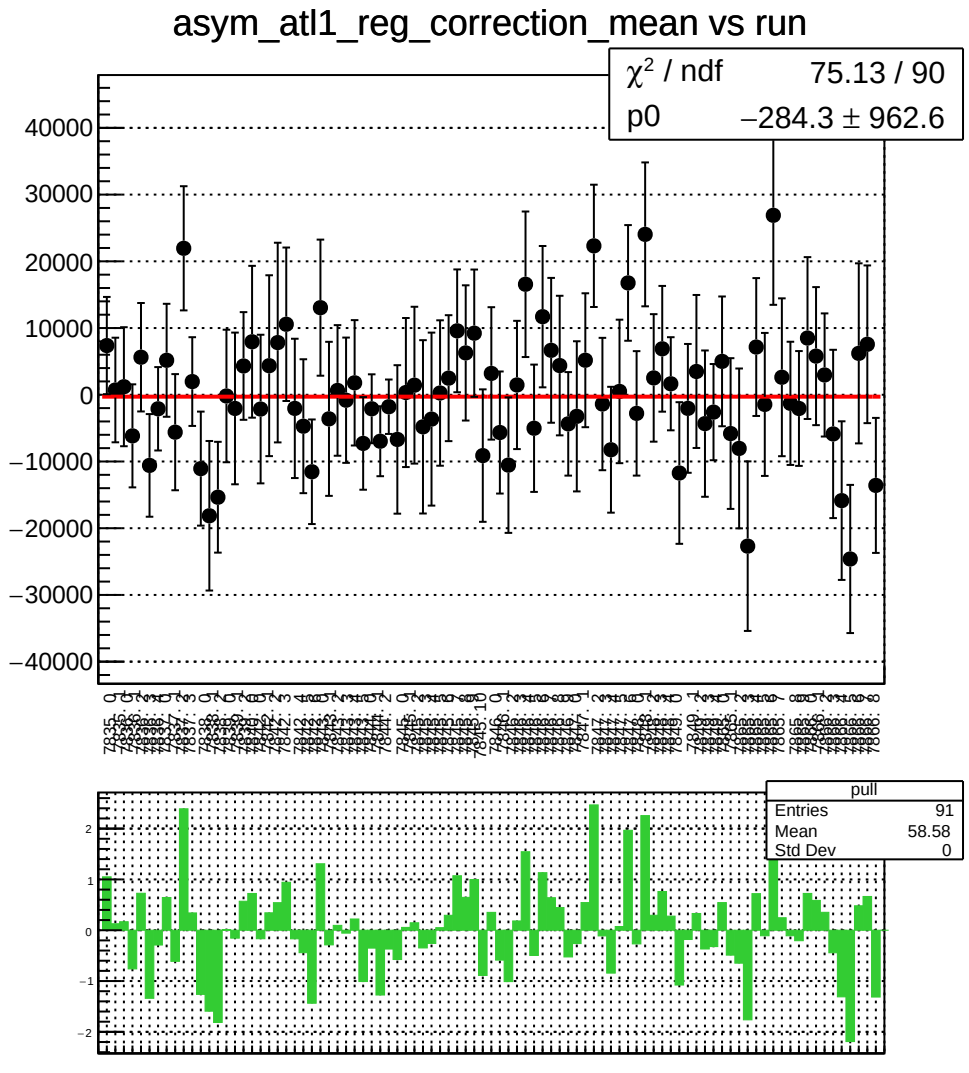

pull1D
Entries 91
Mean 0.0154
Std Dev 0.8975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

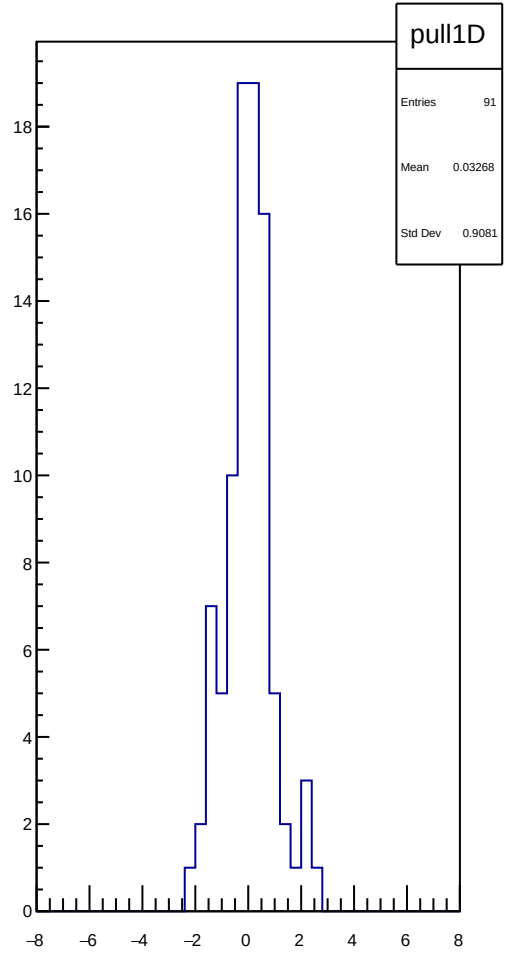

asym_us_agg_dd_rms vs run
χ² / ndf 1.123e+04 / 90
p0 1783 ± 1.35
2400
2300
2200
2100
2000
1900
1800
1700
1600

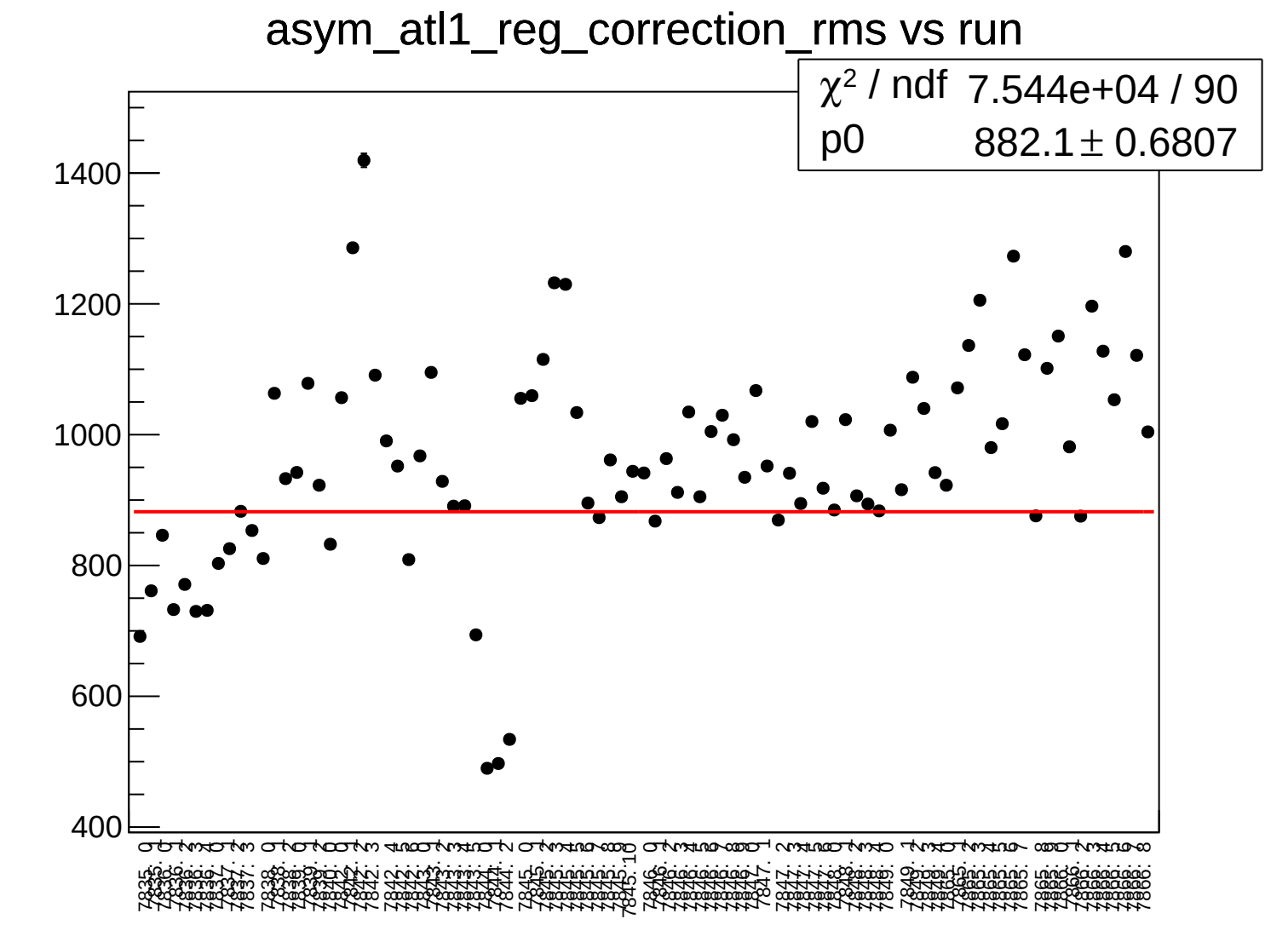

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 76.48 / 90
p0 1748 ± 2528
pull
Entries 91
Mean 182.2
Std Dev 0

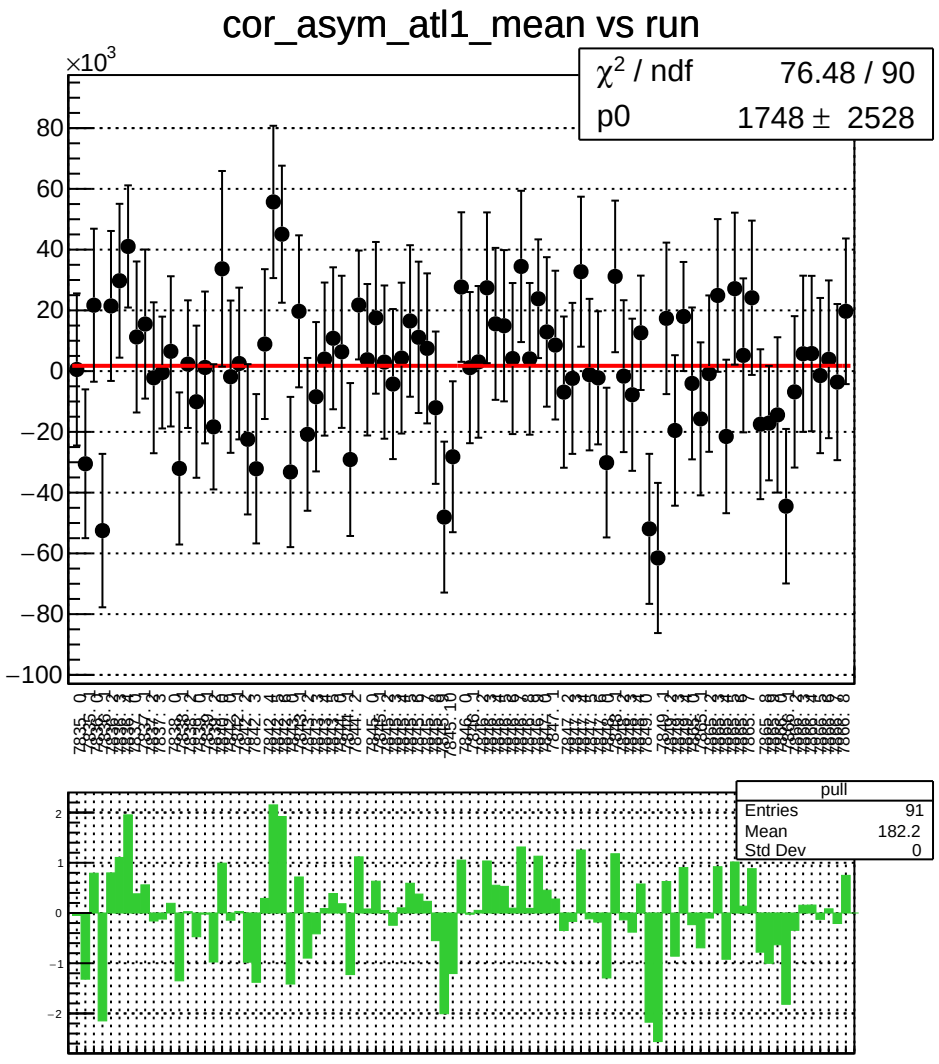

pull1D
Entries 91
Mean −0.01287
Std Dev 0.9167

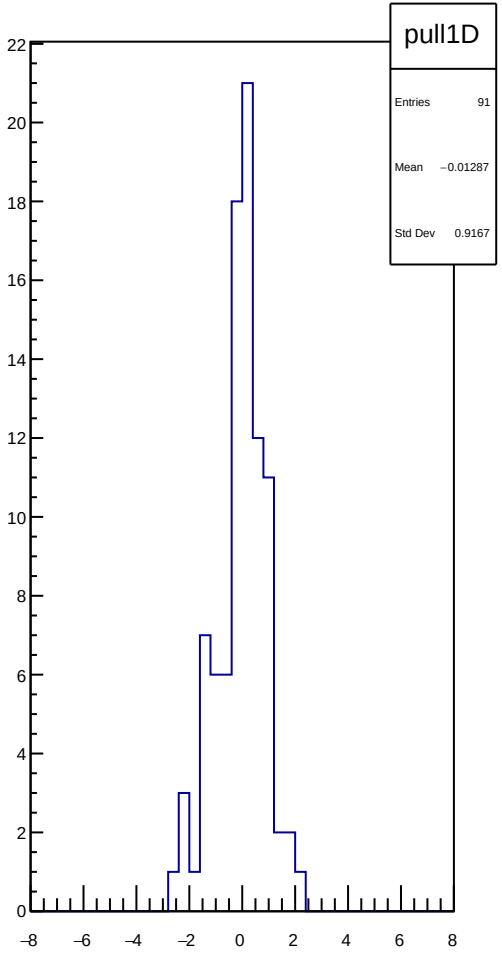

reg_asym_atl1_rms vs run
χ² / ndf 240.1 / 90
p0 2368 ± 1.788
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

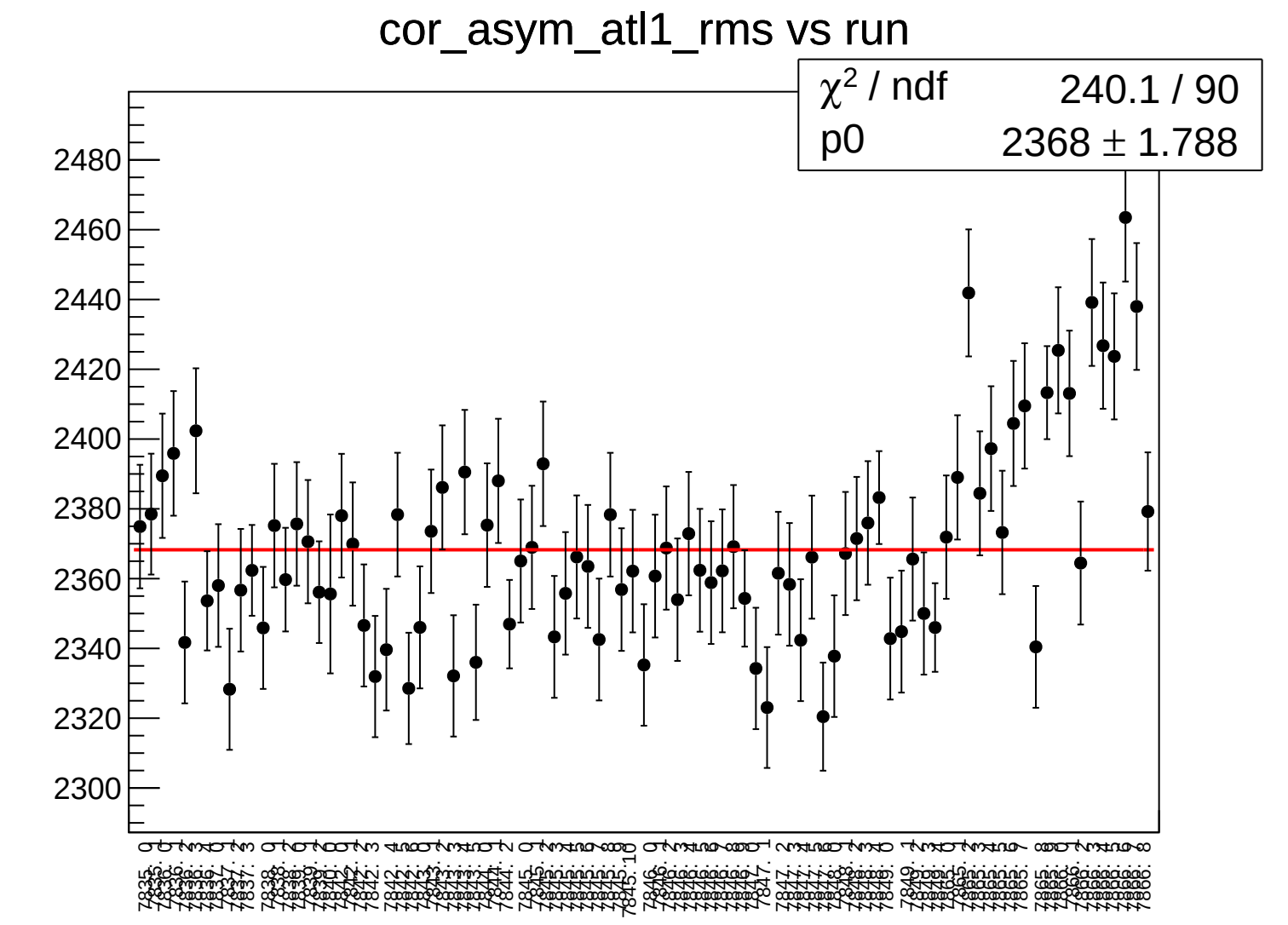

asym_atl1_reg_correction_mean vs run
χ² / ndf 75.13 / 90
p0 −284.3 ± 962.6
pull
Entries 91
Mean 58.58
Std Dev 0

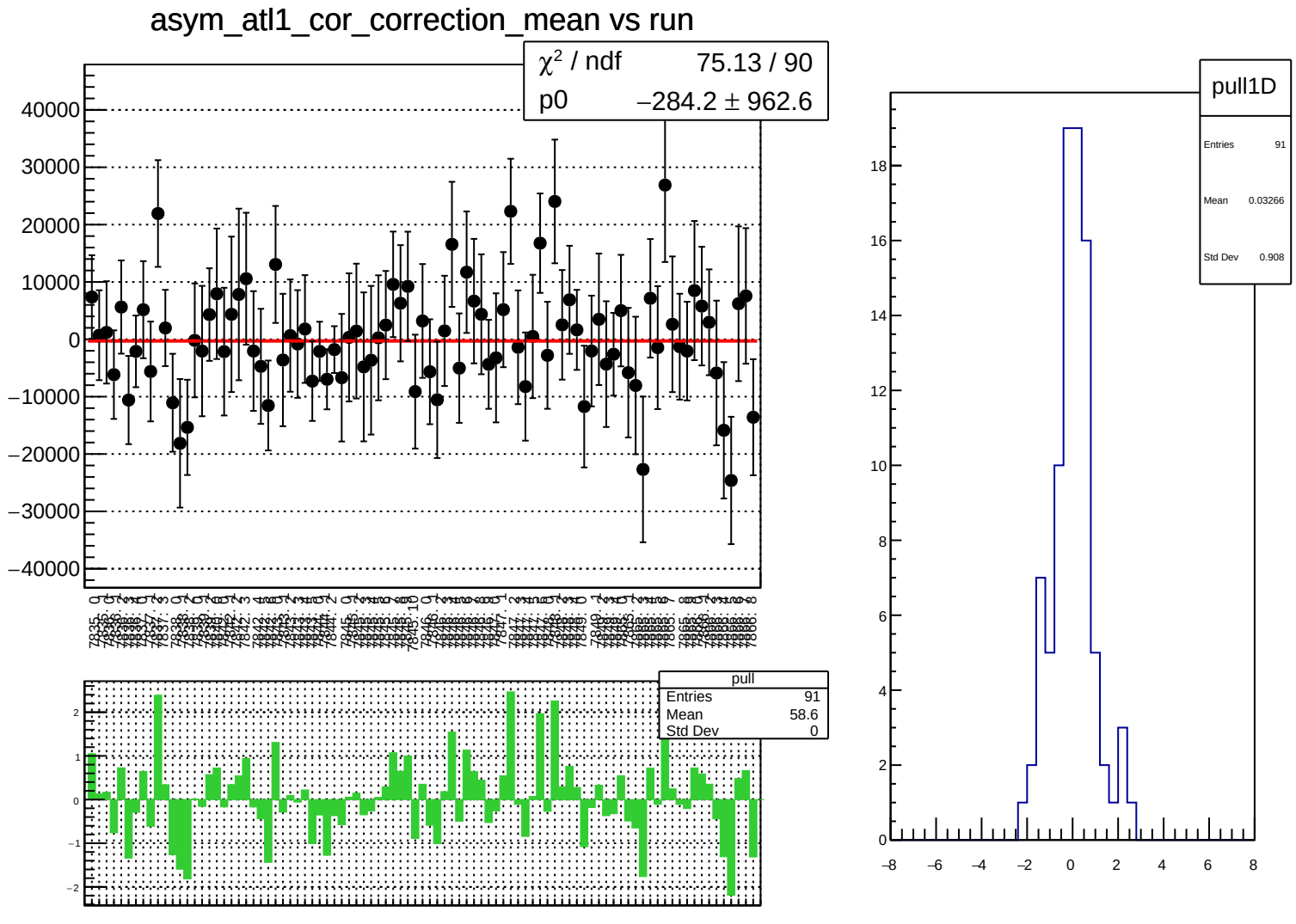

pull1D
Entries 91
Mean 0.03268
Std Dev 0.9081

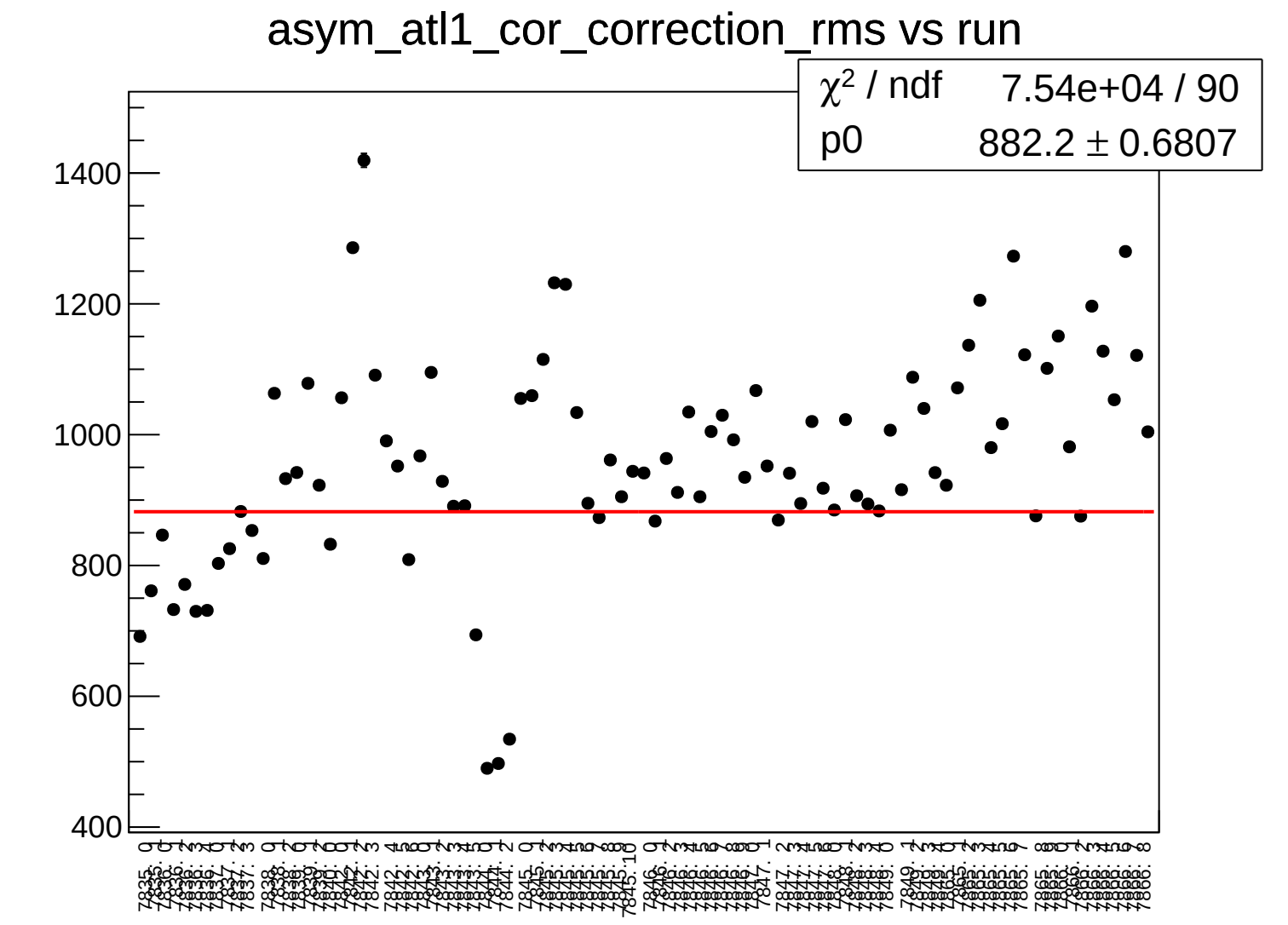

asym_atl1_reg_correction_rms vs run
χ² / ndf 7.544e+04 / 90
p0 882.1 ± 0.6807
1400
1200
1000
800
600
400

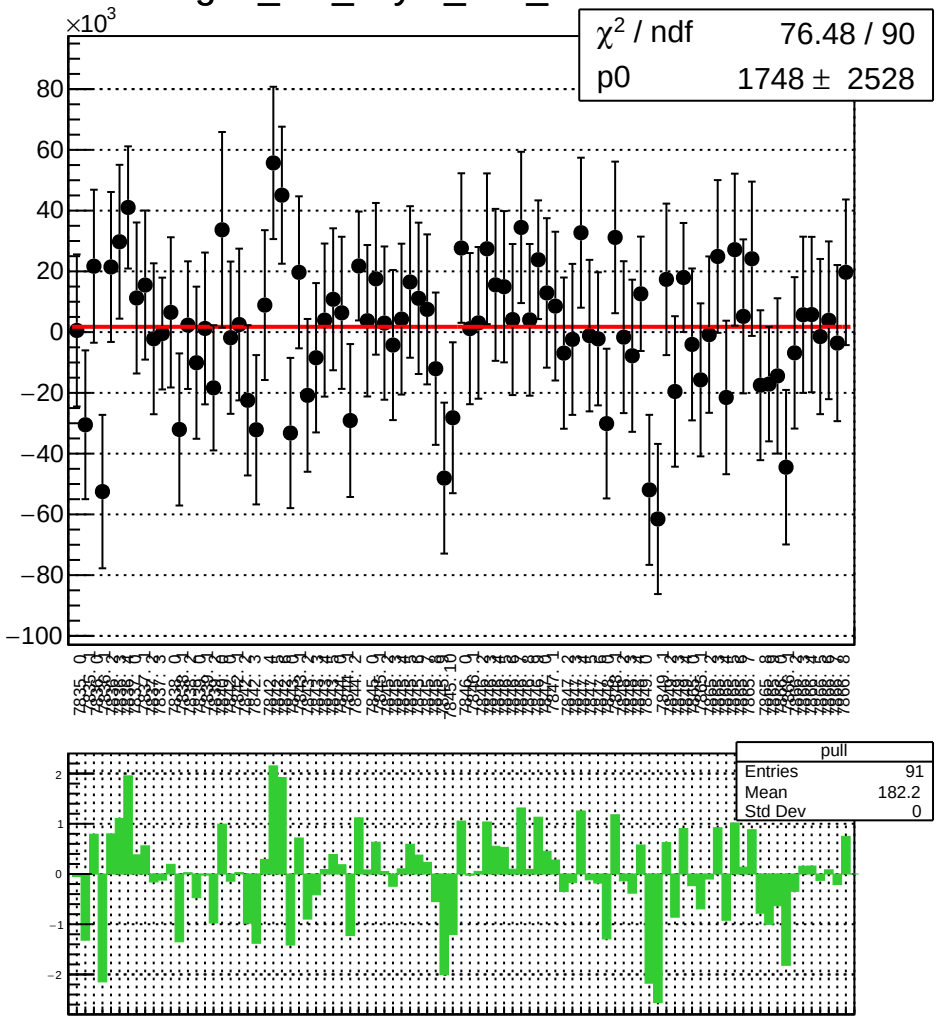

cor_asym_atl1_mean vs run
χ² / ndf 76.48 / 90
p0 1748 ± 2528
×10³
pull
Entries 91
Mean 182.2
Std Dev 0

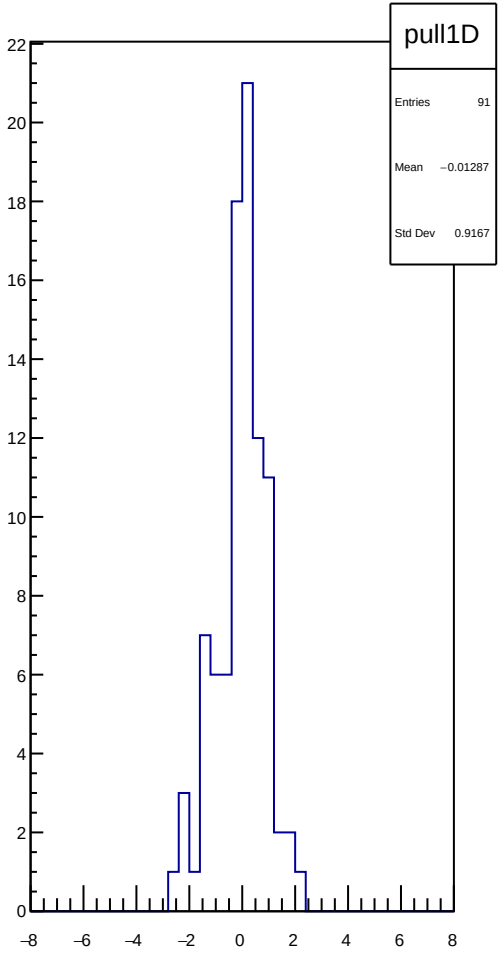

pull1D
Entries 91
Mean −0.01287
Std Dev 0.9167

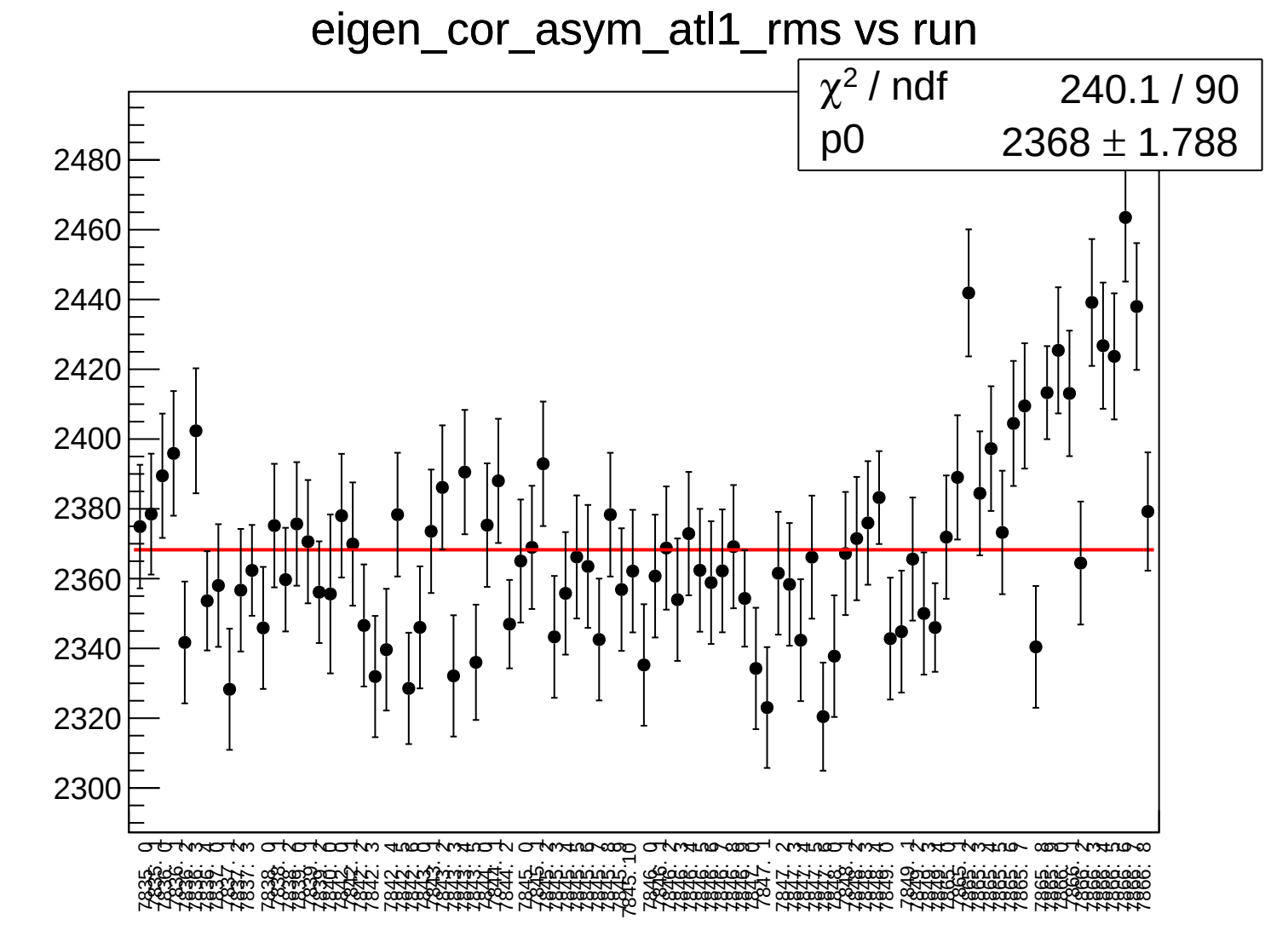

cor_asym_atl1_rms vs run
χ² / ndf 240.1 / 90
p0 2368 ± 1.788
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

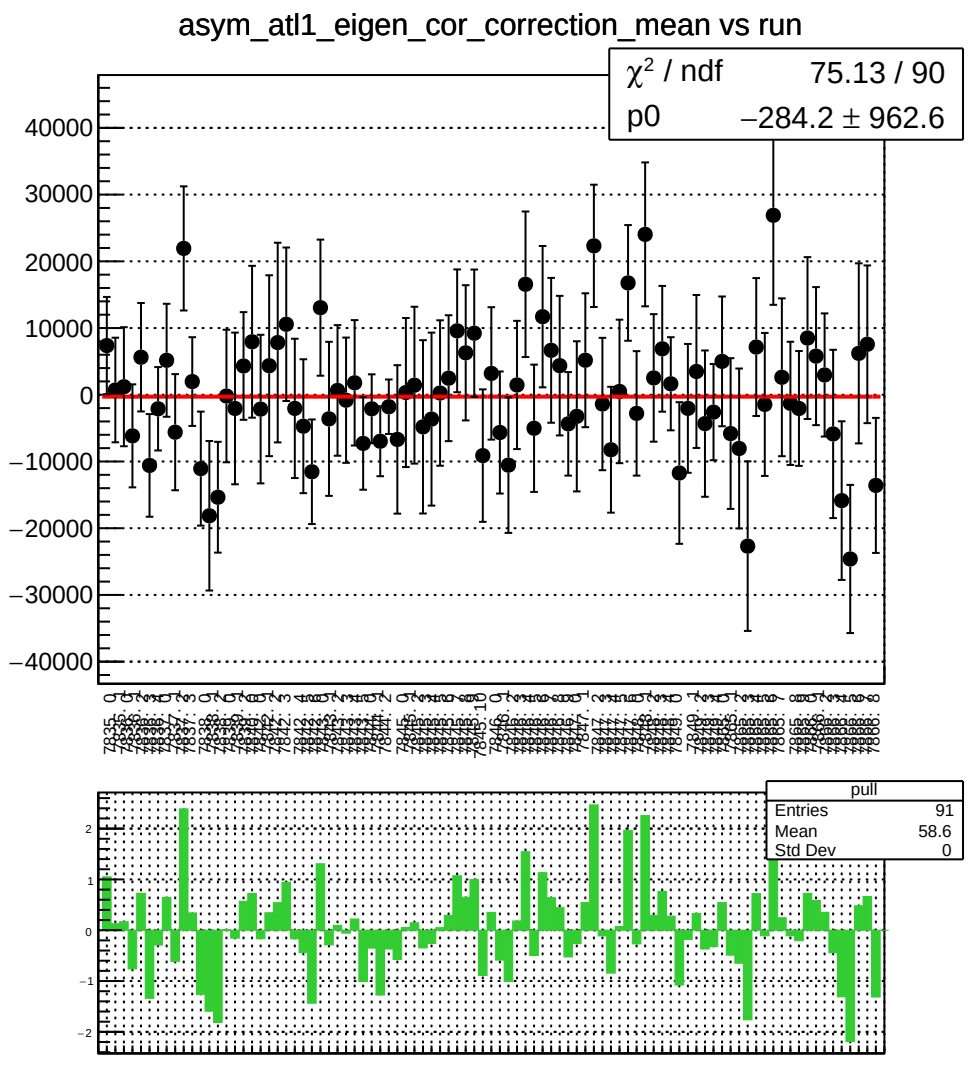

asym_atl1_cor_correction_mean vs run
χ² / ndf 75.13 / 90
p0 −284.2 ± 962.6
pull
Entries 91
Mean 58.6
Std Dev 0
pull1D
Entries 91
Mean 0.03266
Std Dev 0.908

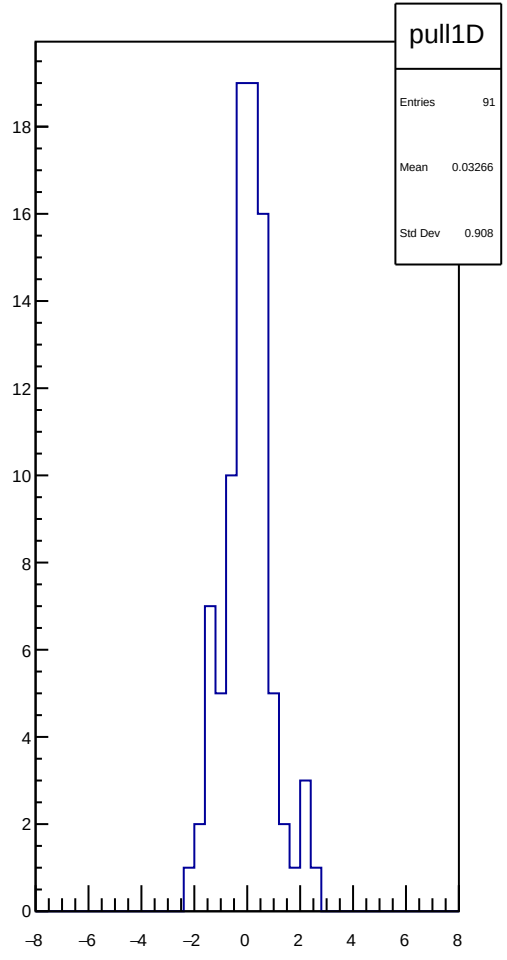

asym_atl1_cor_correction_rms vs run
χ² / ndf 7.54e+04 / 90
p0 882.2 ± 0.6807
1400
1200
1000
800
600
400

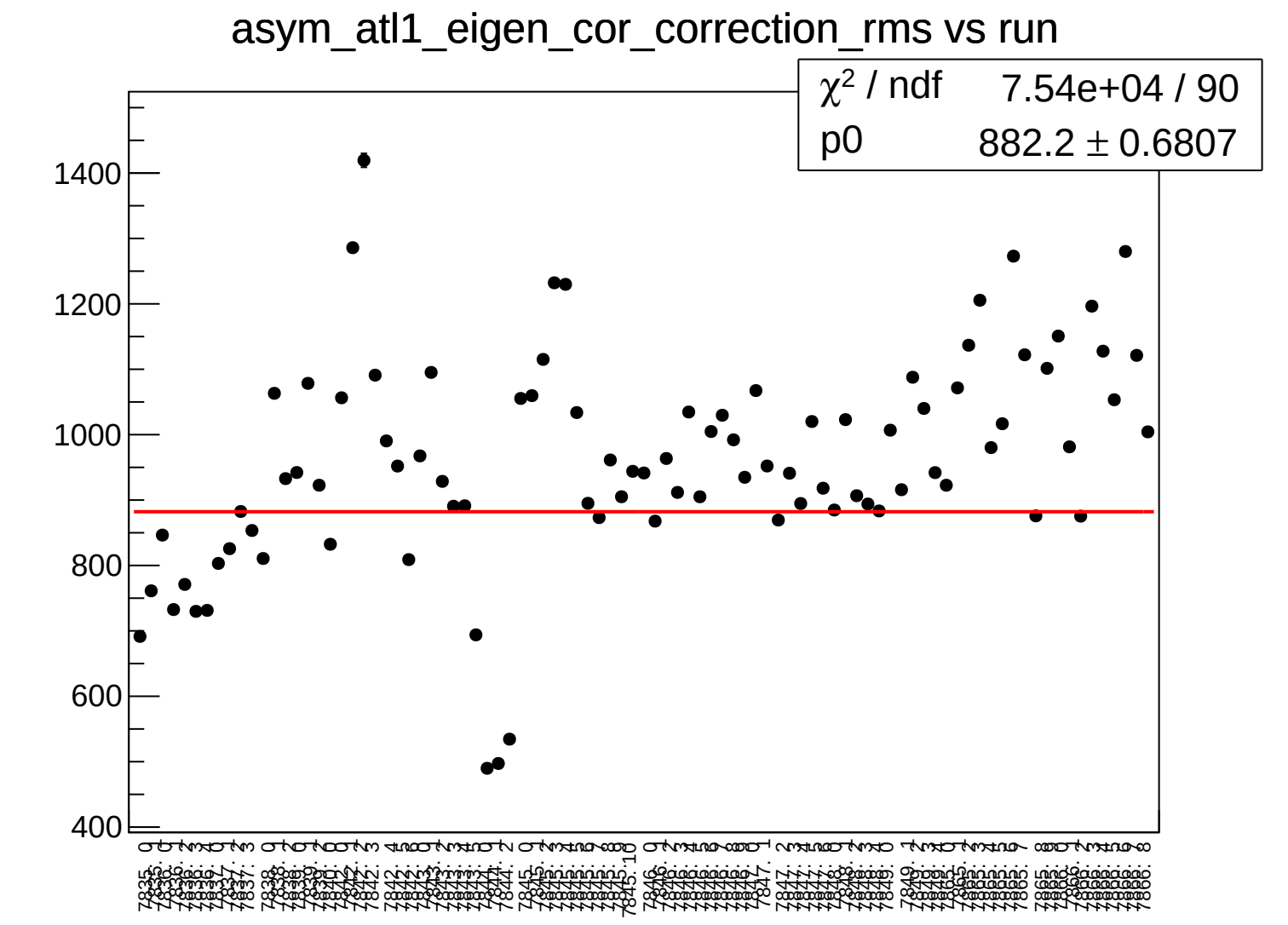

eigen_cor_asym_atl1_mean vs run
χ² / ndf 76.48 / 90
p0 1748 ± 2528
pull
Entries 91
Mean 182.2
Std Dev 0

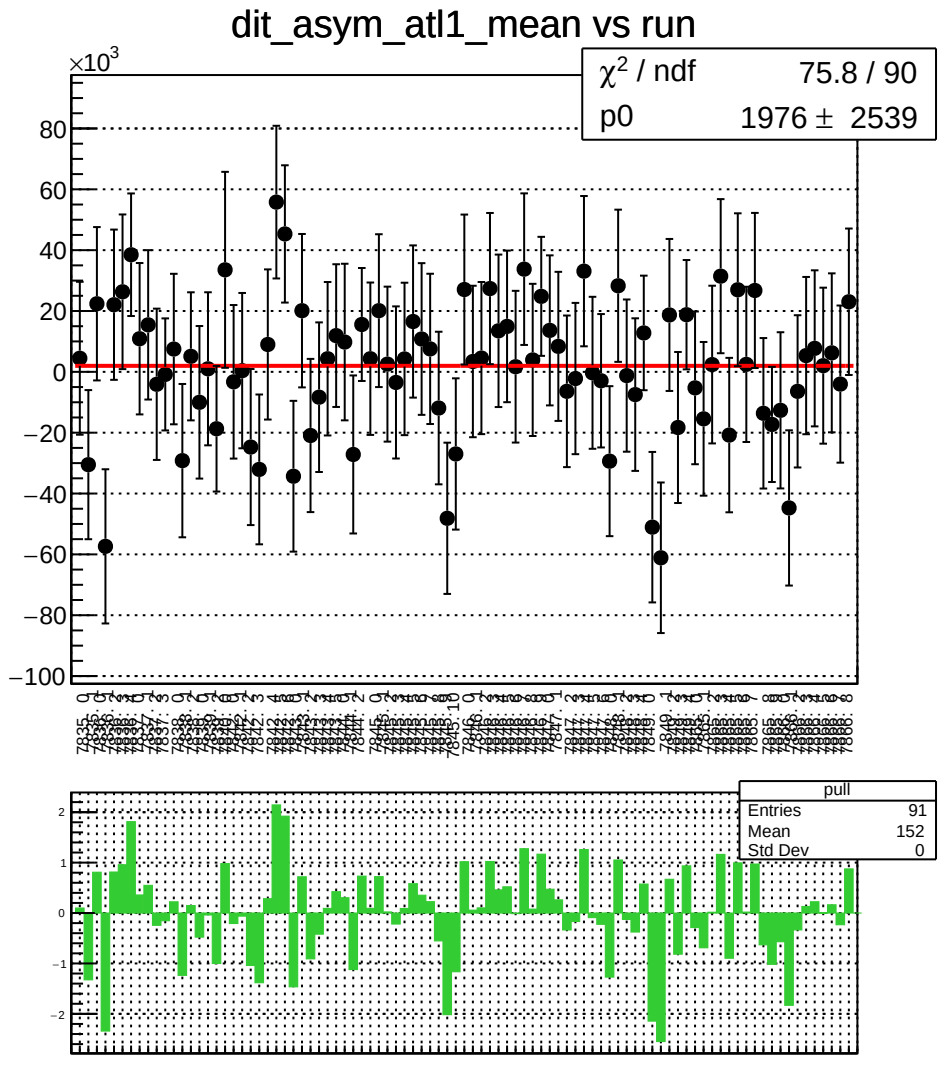

pull1D
Entries 91
Mean −0.01287
Std Dev 0.9167

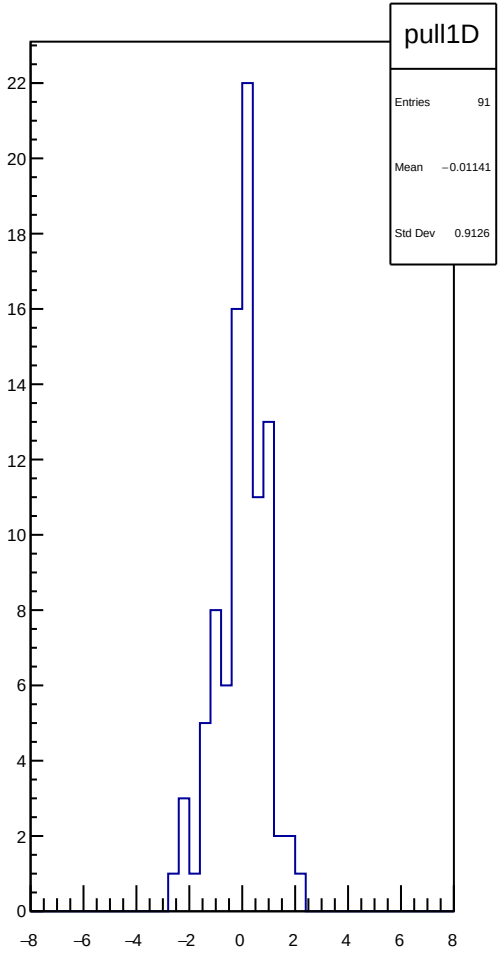

eigen_cor_asym_atl1_rms vs run
χ² / ndf 240.1 / 90
p0 2368 ± 1.788
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

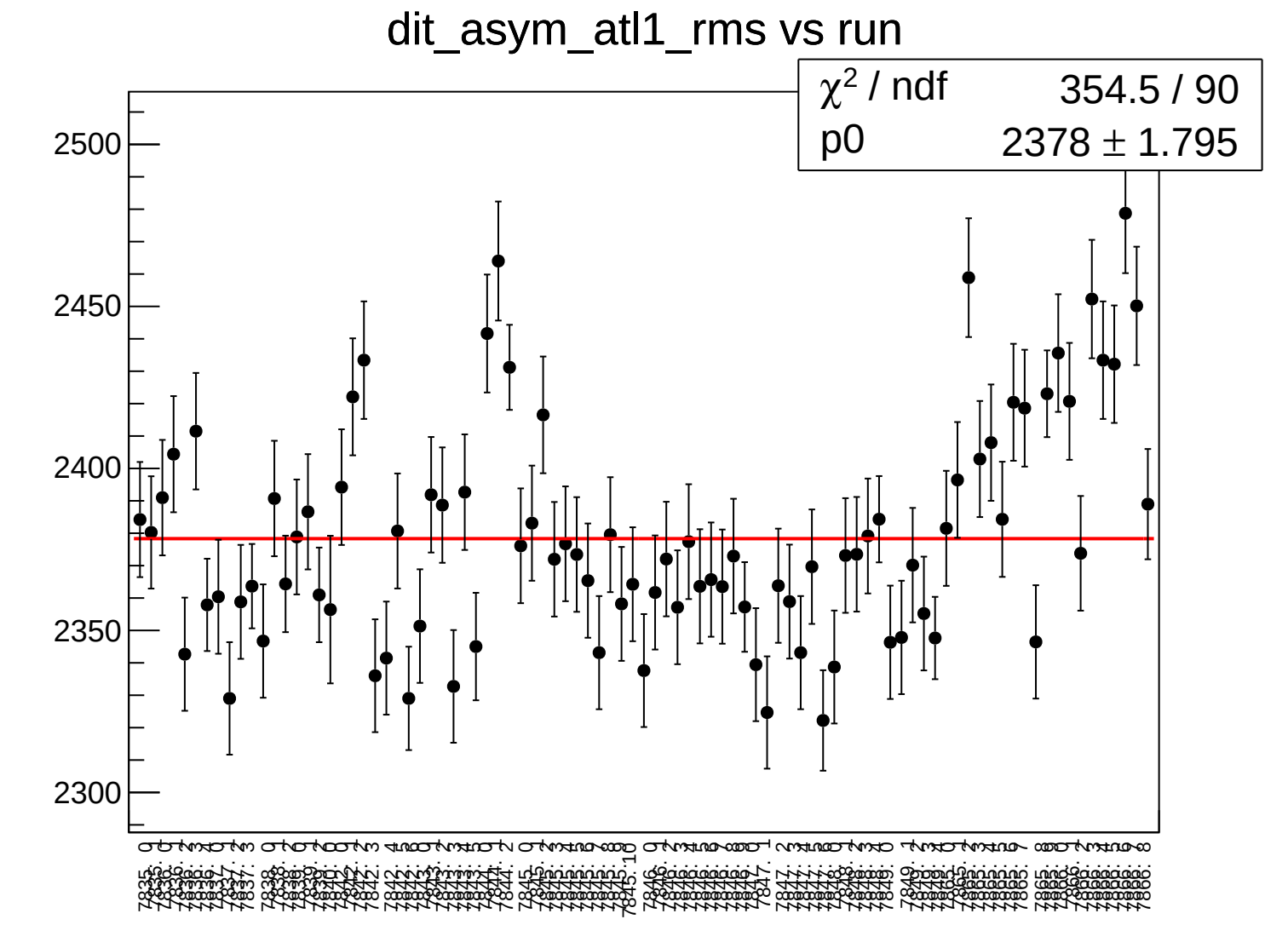

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 75.13 / 90
p0 −284.2 ± 962.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 58.6
Std Dev 0
2
1
0
−1
−2

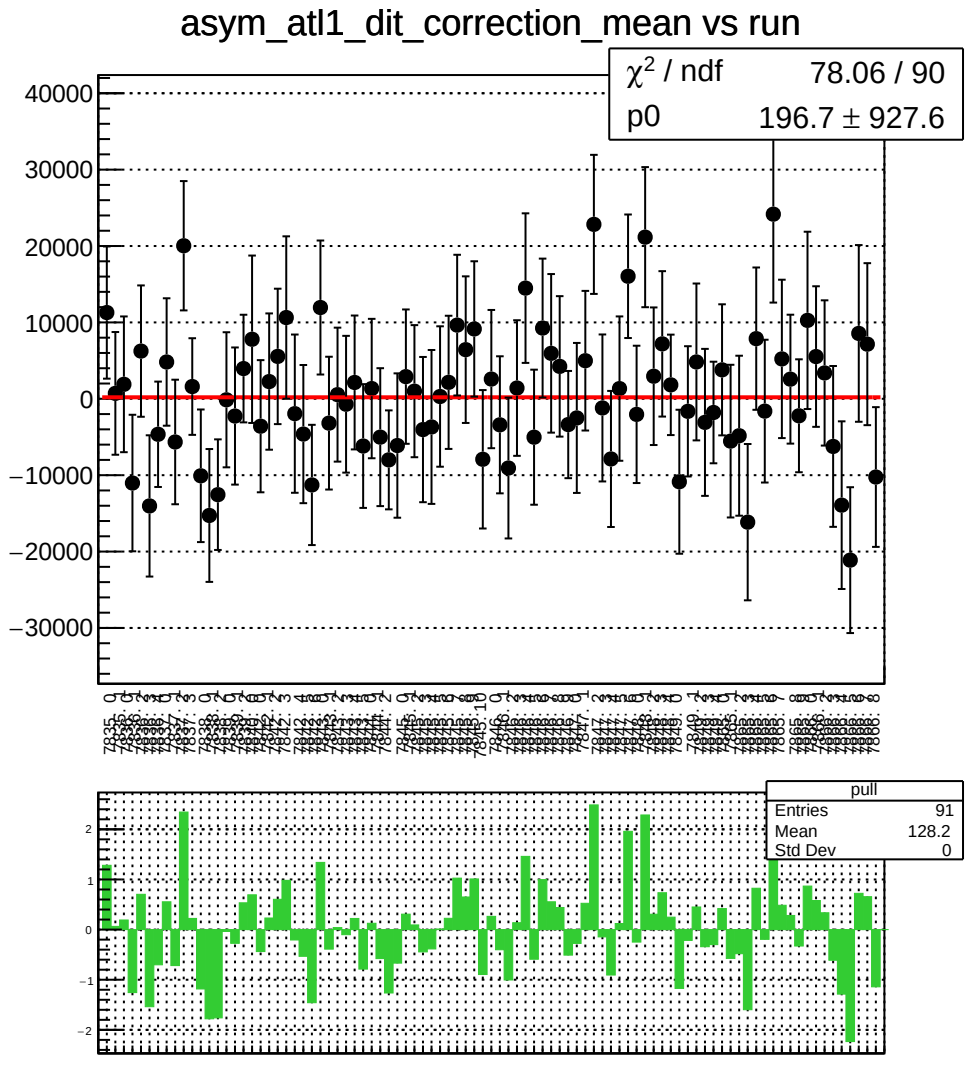

pull1D
Entries 91
Mean 0.03266
Std Dev 0.908
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

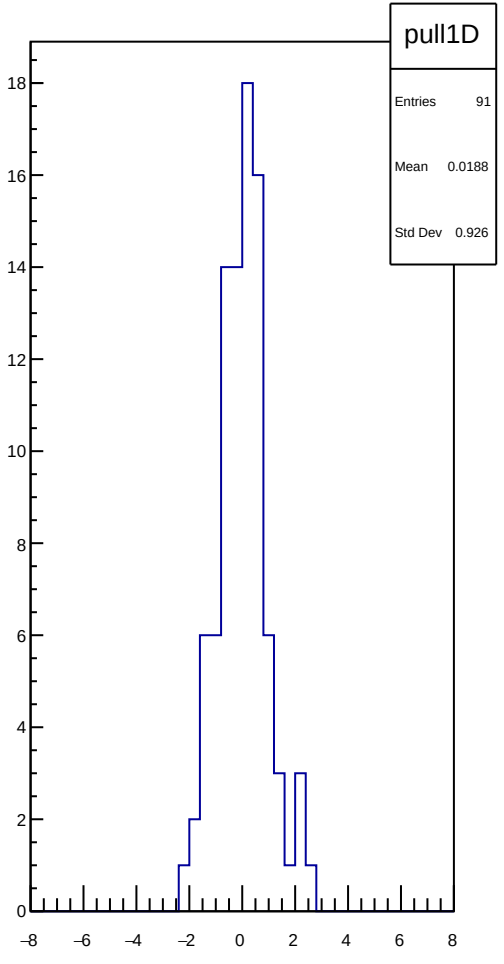

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 7.54e+04 / 90
p0 882.2 ± 0.6807
1400
1200
1000
800
600
400

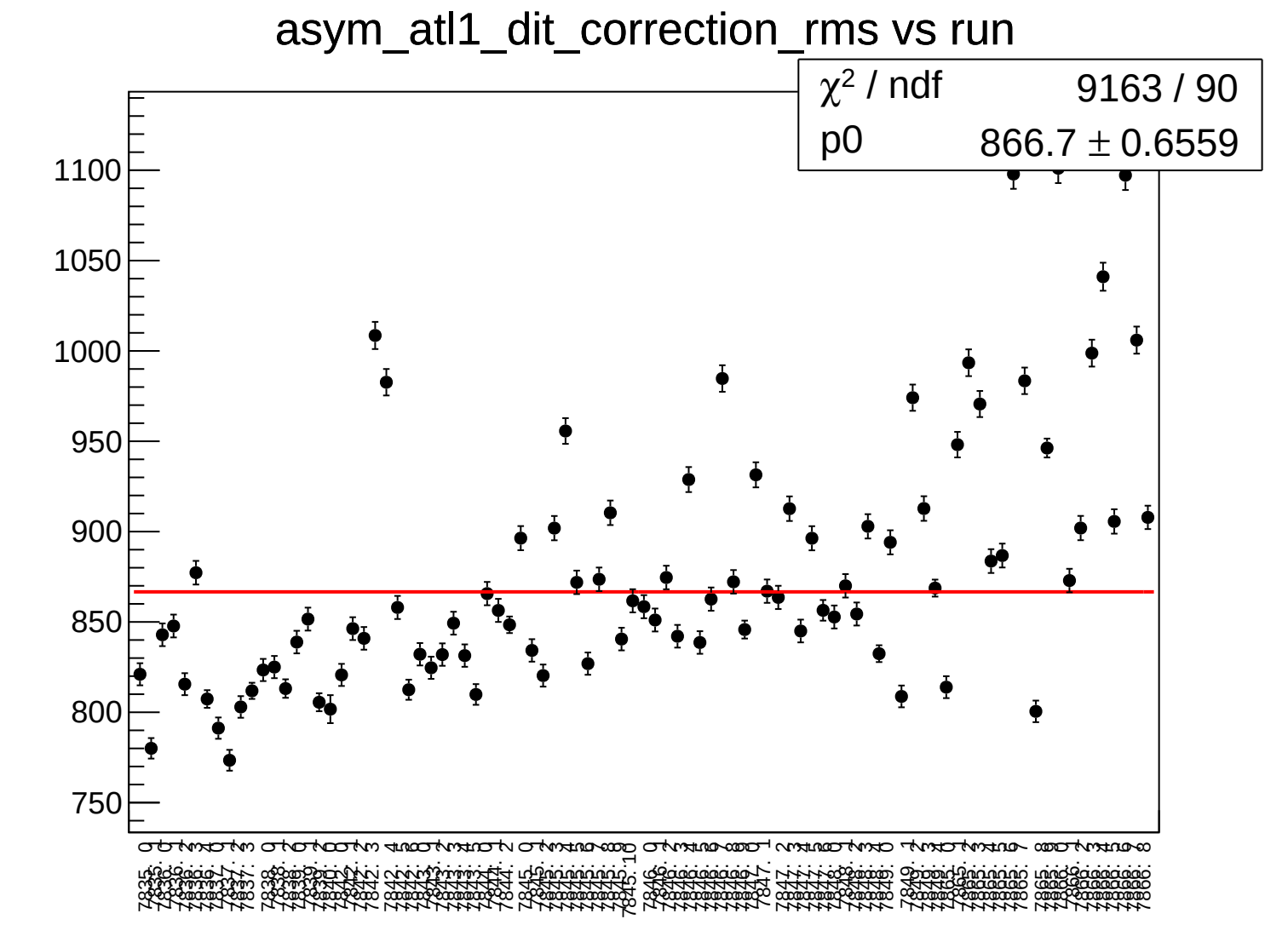

dit_asym_atl1_mean vs run
χ² / ndf 75.8 / 90
p0 1976 ± 2539
×10³
pull
Entries 91
Mean 152
Std Dev 0

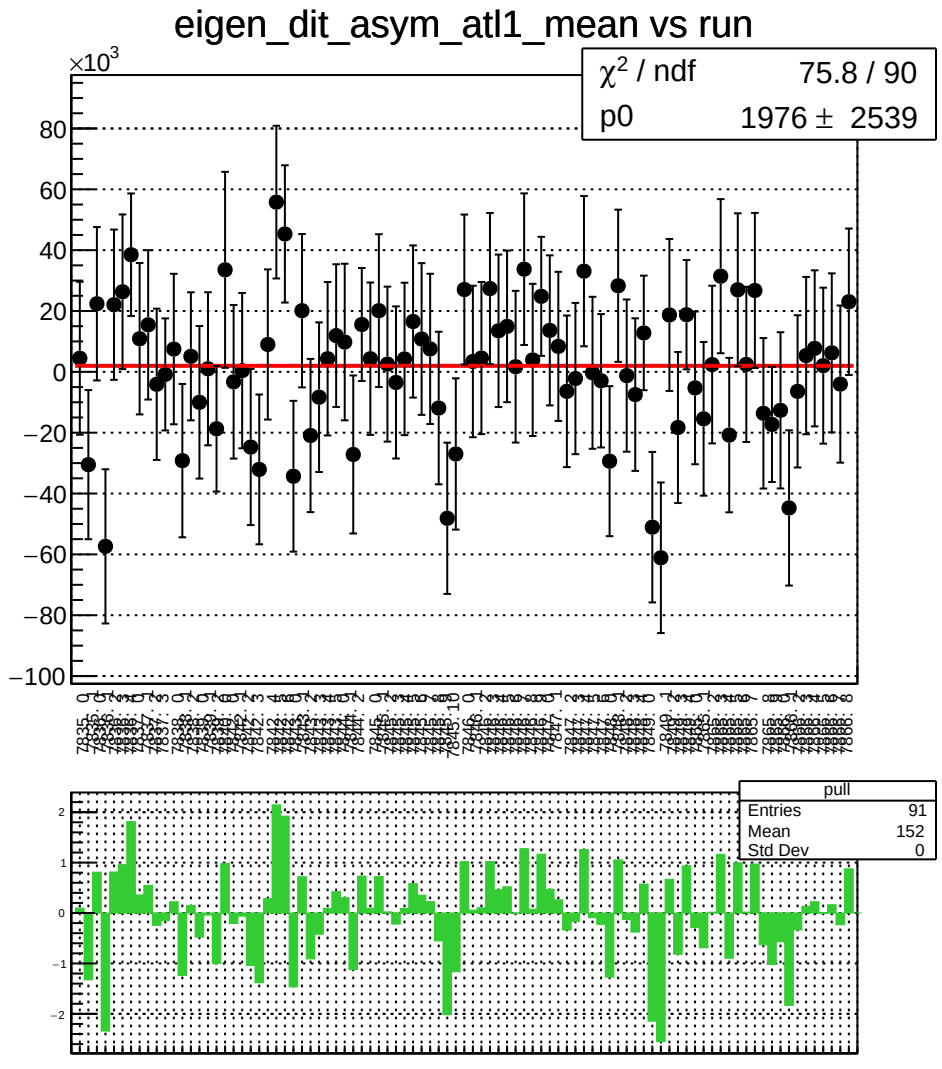

pull1D
Entries 91
Mean −0.01141
Std Dev 0.9126

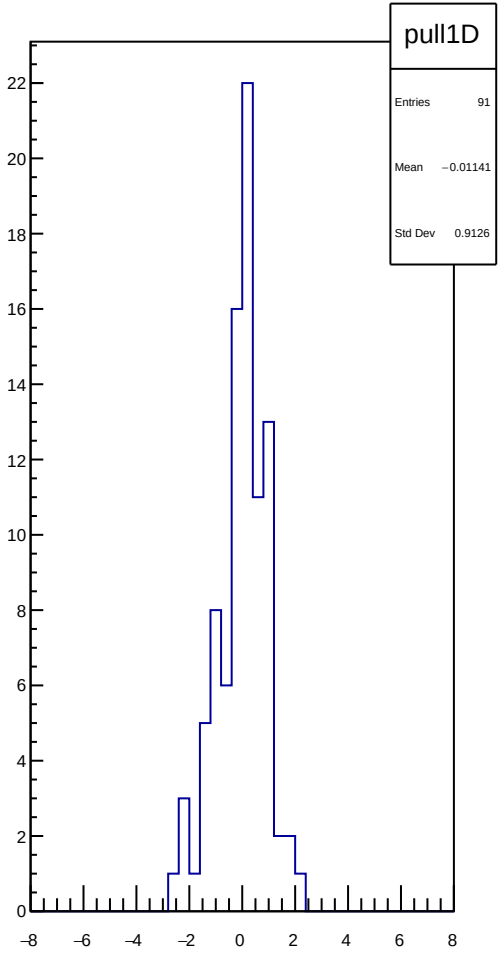

dit_asym_atl1_rms vs run
χ² / ndf 354.5 / 90
p0 2378 ± 1.795
2500
2450
2400
2350
2300

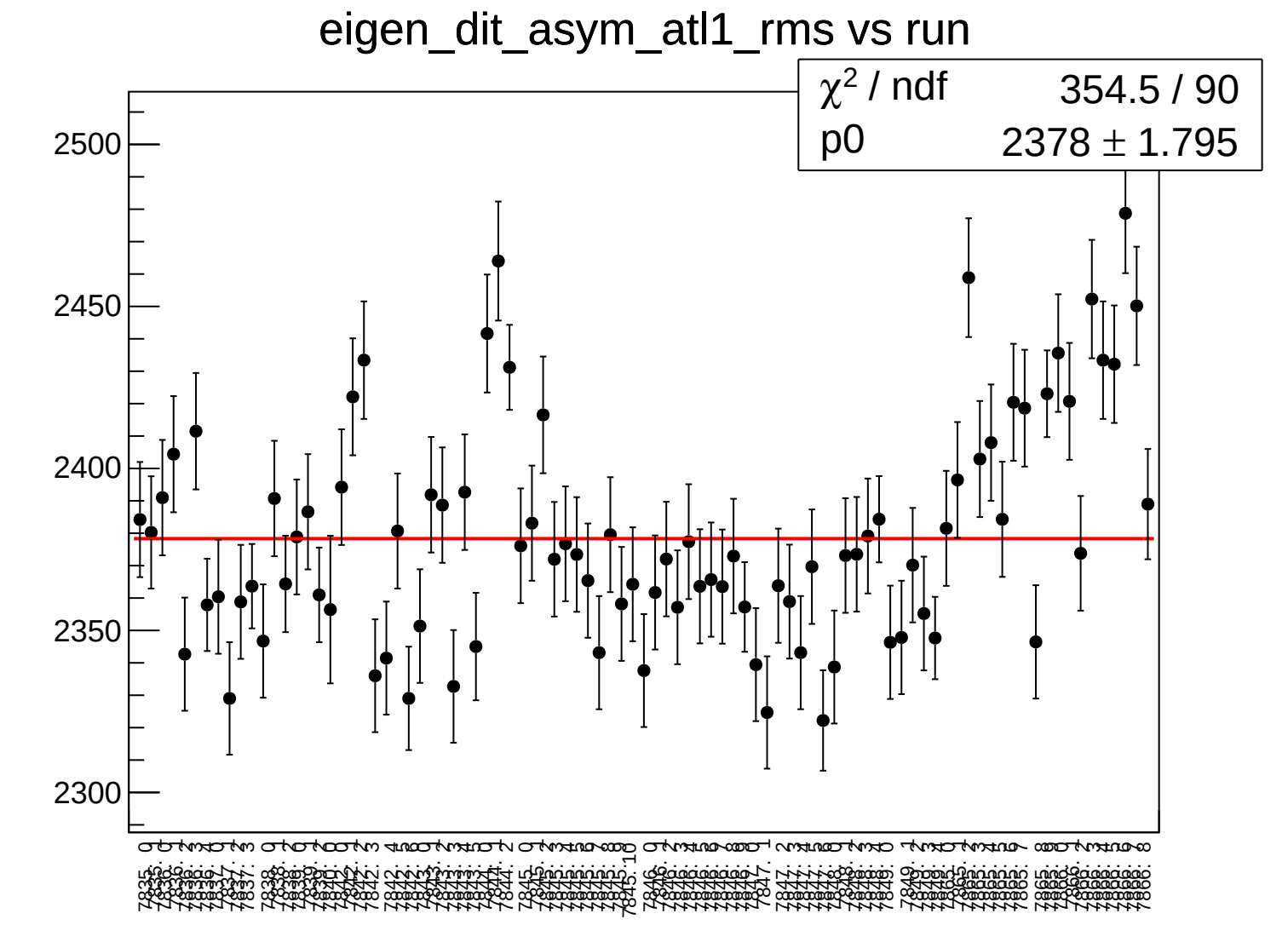

asym_atl1_dit_correction_mean vs run
χ² / ndf 78.06 / 90
p0 196.7 ± 927.6
pull
Entries 91
Mean 128.2
Std Dev 0

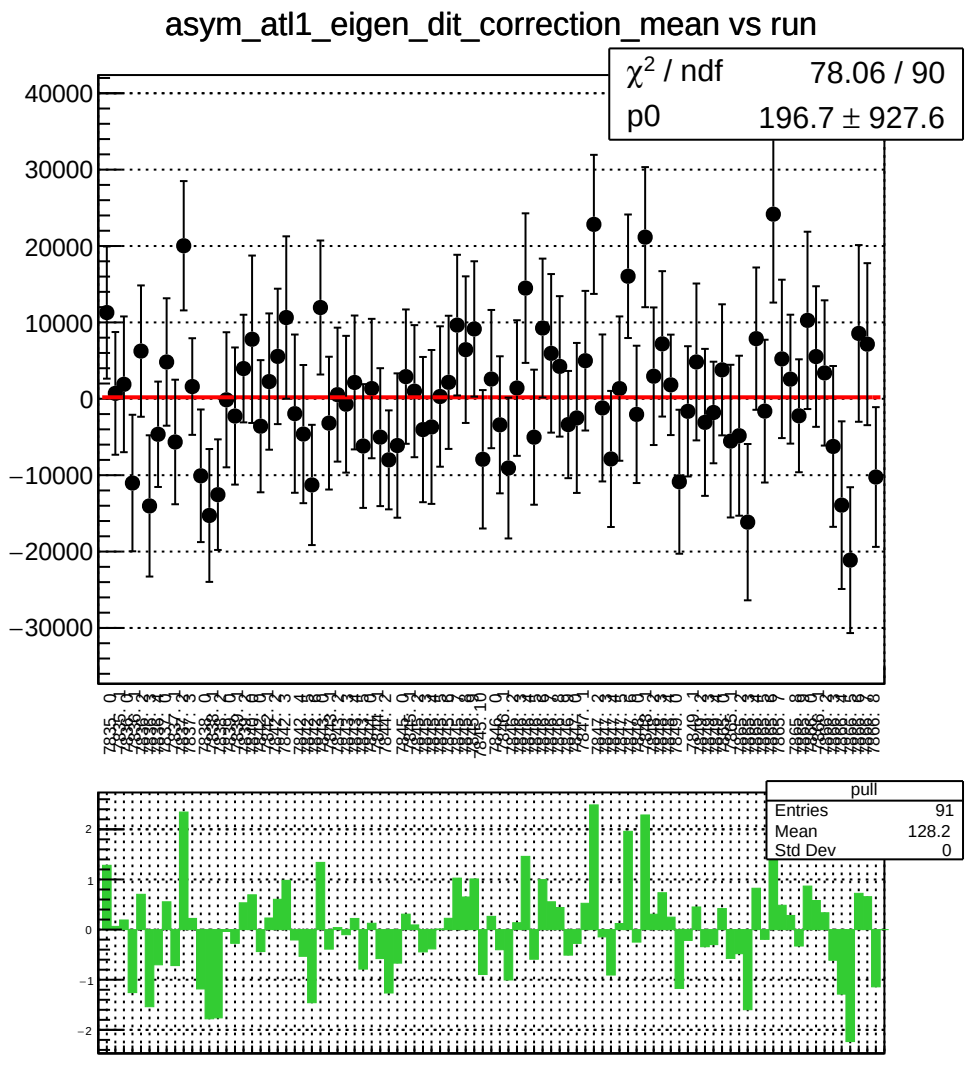

pull1D
Entries 91
Mean 0.0188
Std Dev 0.926

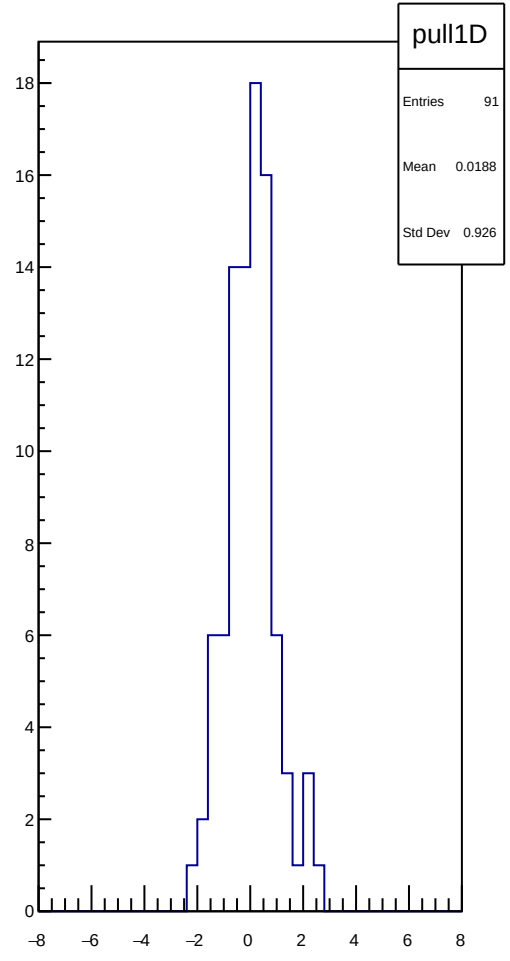

asym_atl1_dit_correction_rms vs run
χ² / ndf 9163 / 90
p0 866.7 ± 0.6559
1100
1050
1000
950
900
850
800
750

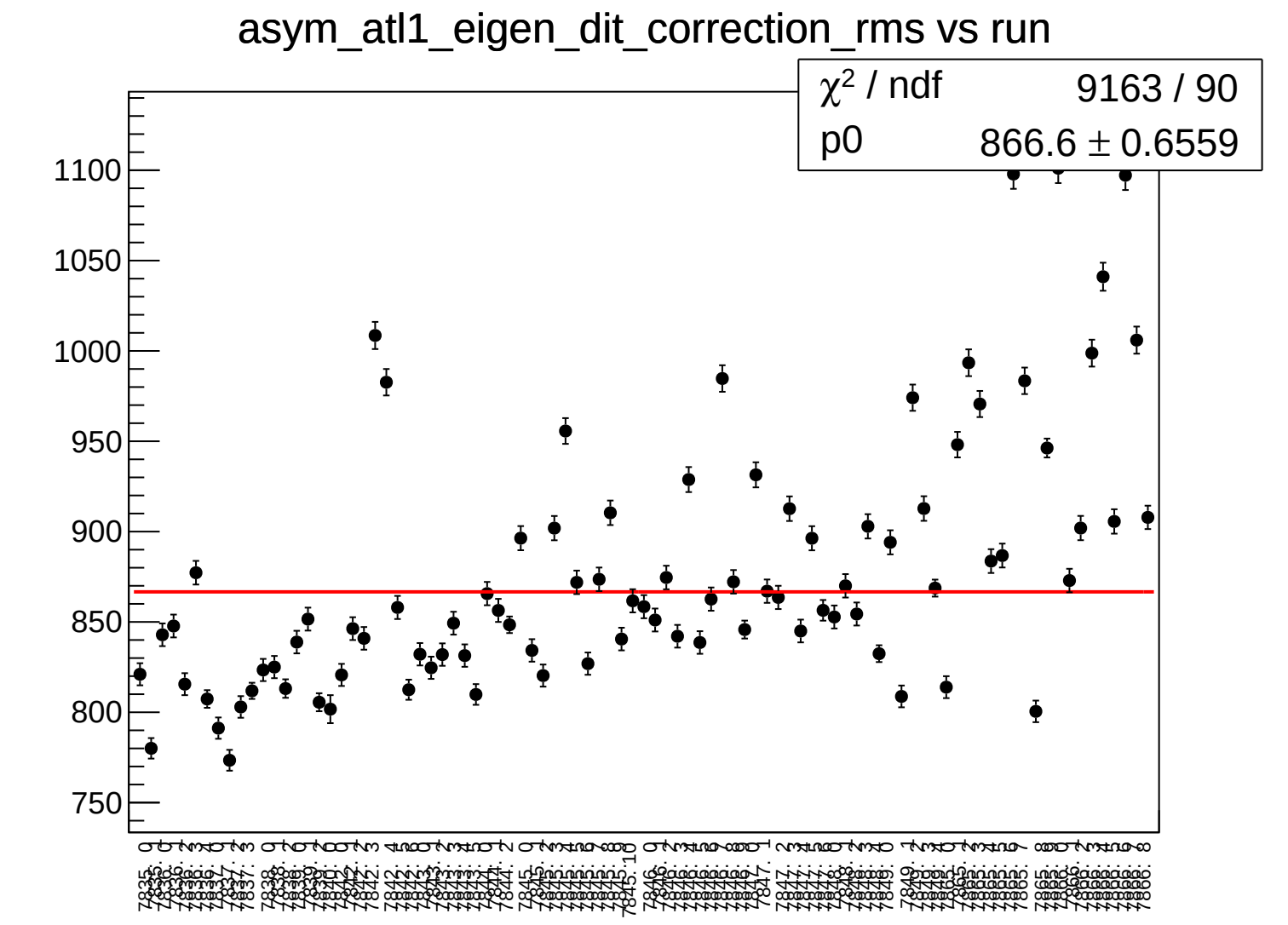

eigen_dit_asym_atl1_mean vs run
χ² / ndf 75.8 / 90
p0 1976 ± 2539
×10³
pull
Entries 91
Mean 152
Std Dev 0

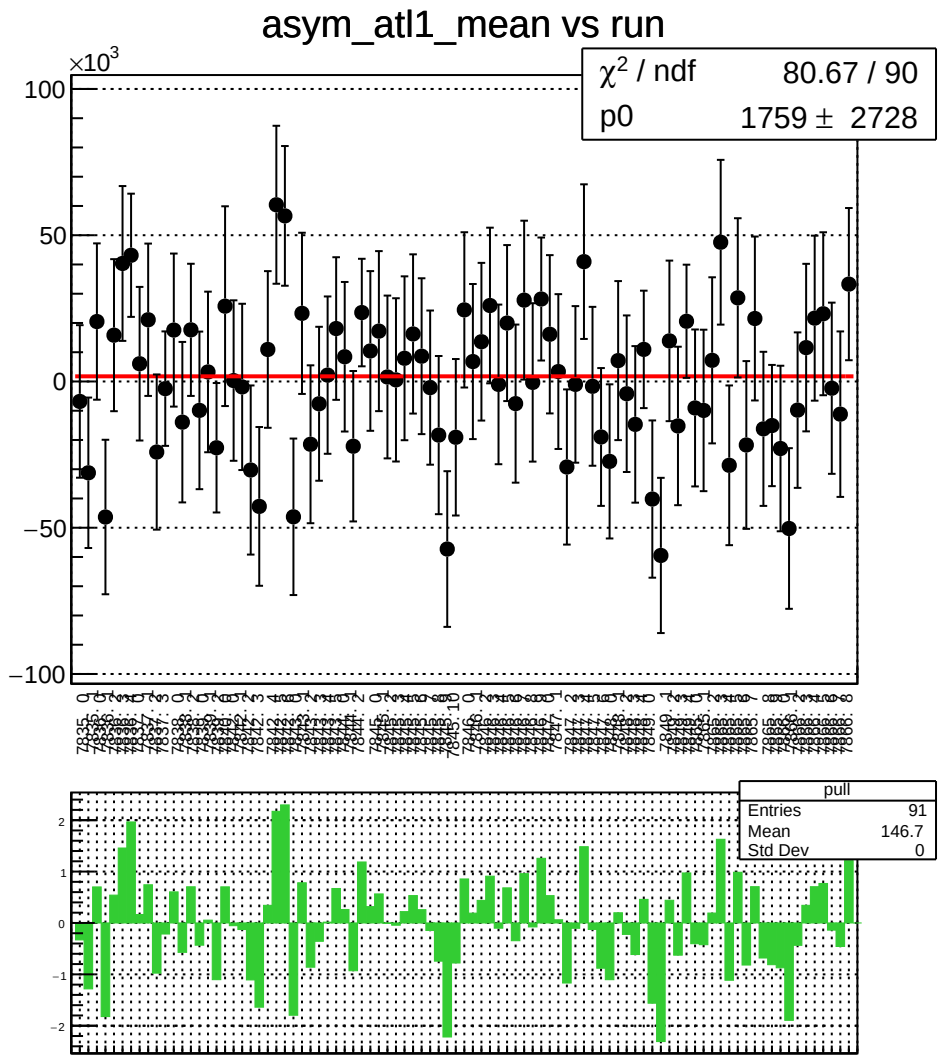

pull1D
Entries 91
Mean −0.01141
Std Dev 0.9126

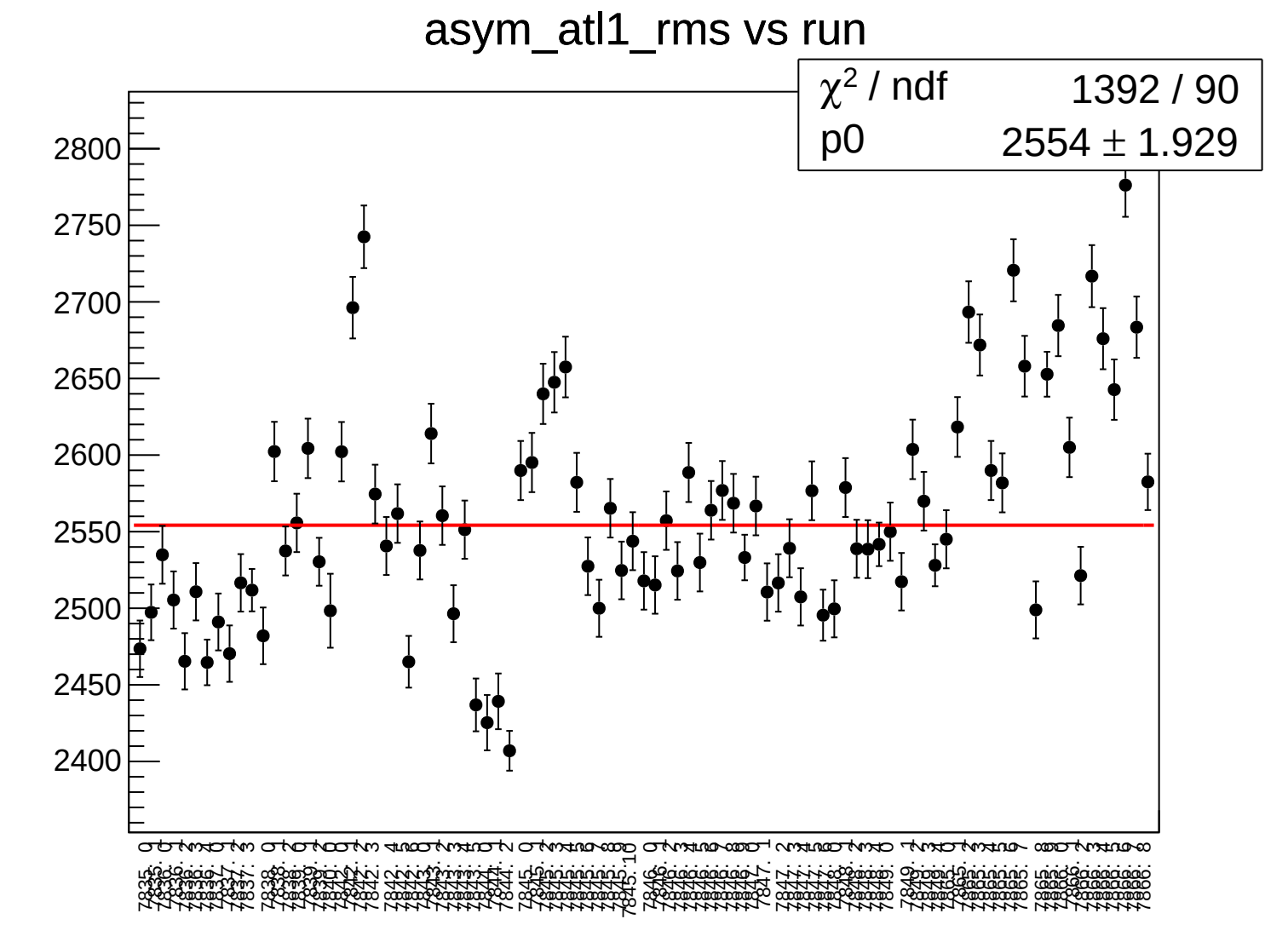

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 354.5 / 90
p0 2378 ± 1.795
2500
2450
2400
2350
2300

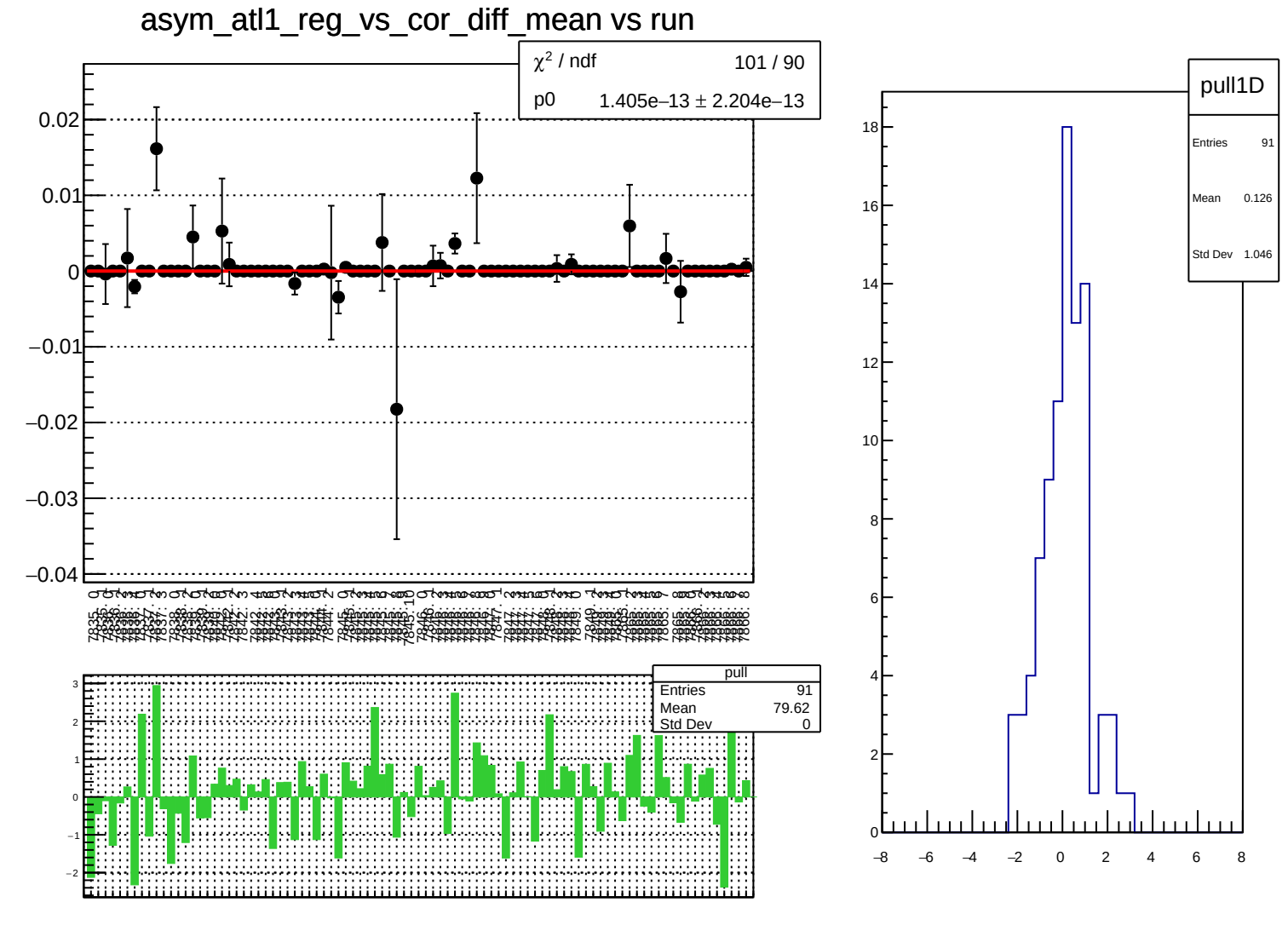

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 78.06 / 90
p0 196.7 ± 927.6
pull
Entries 91
Mean 128.2
Std Dev 0

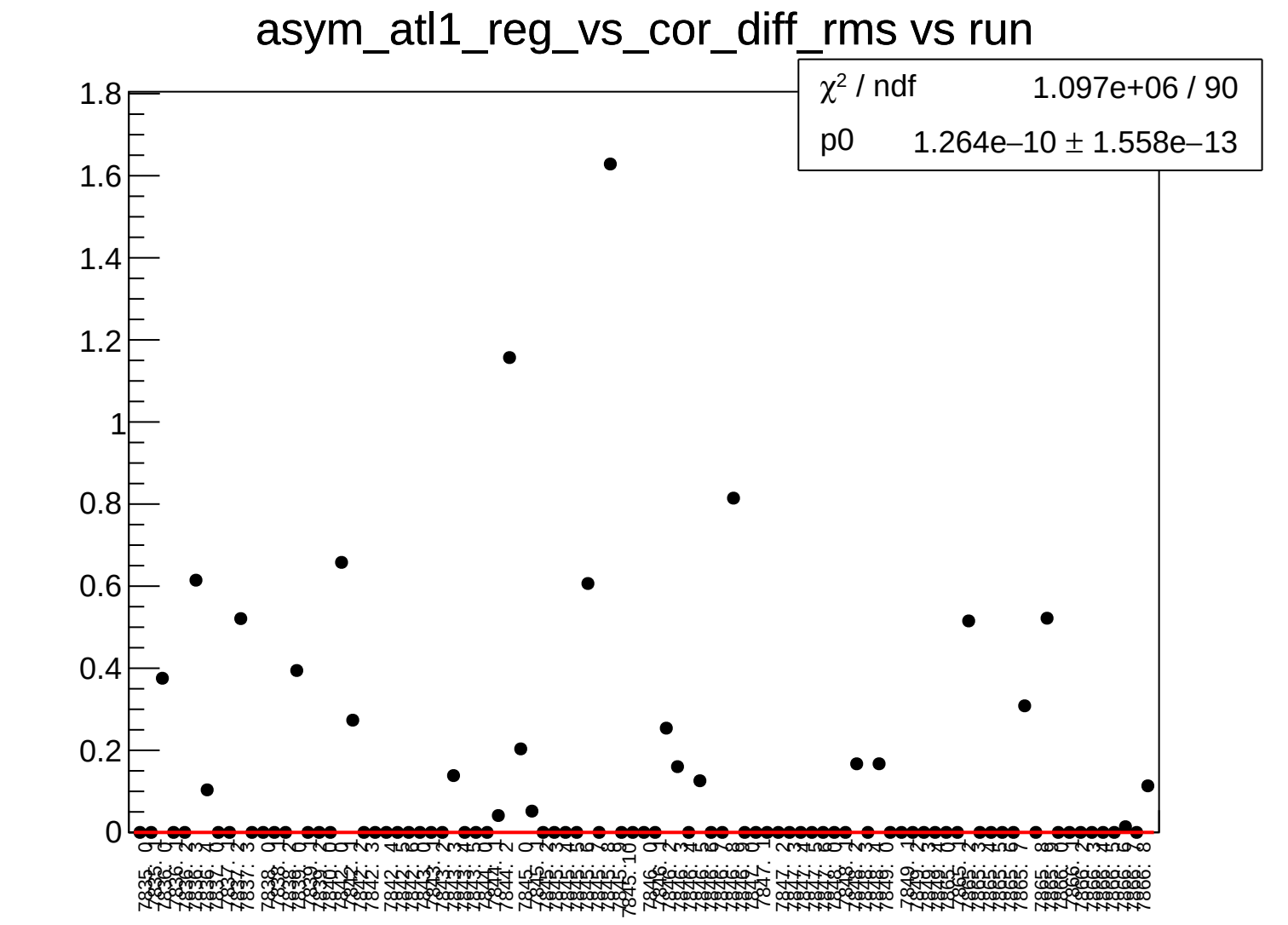

pull1D
Entries 91
Mean 0.0188
Std Dev 0.926

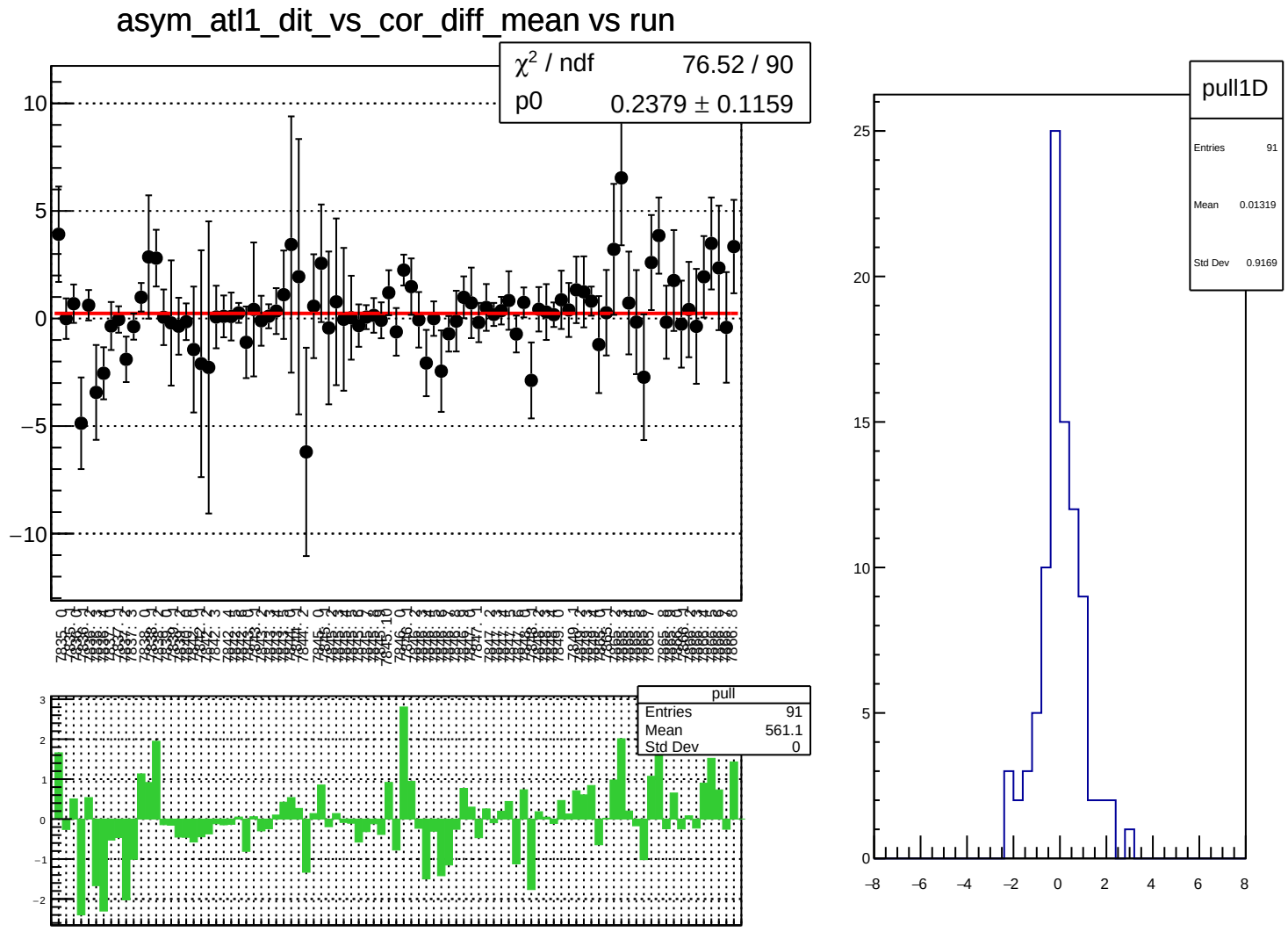

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 9163 / 90
p0 866.6 ± 0.6559
1100
1050
1000
950
900
850
800
750

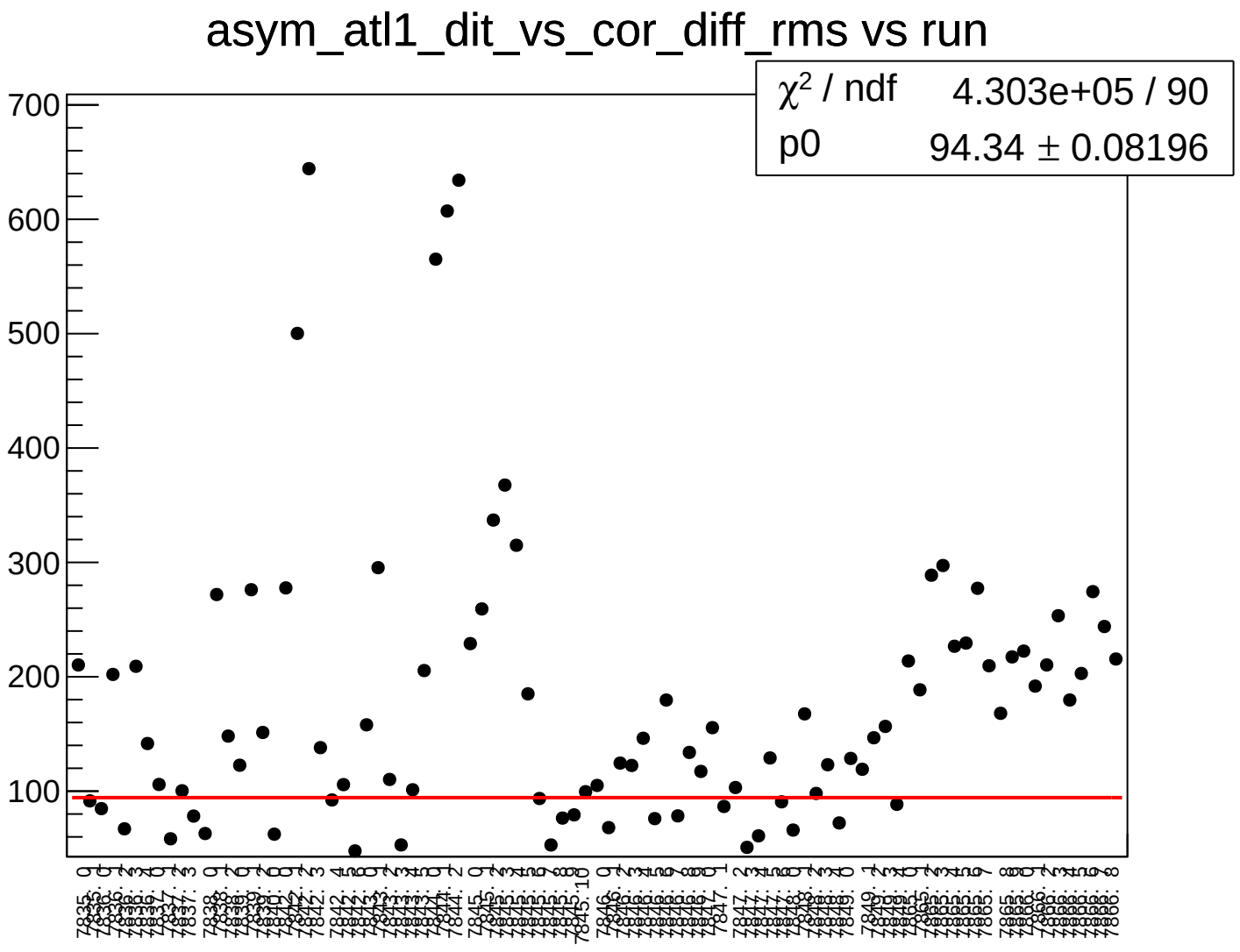

asym_atl1_mean vs run
×10^3
χ² / ndf 80.67 / 90
p0 1759 ± 2728
pull
Entries 91
Mean 146.7
Std Dev 0
pull1D
Entries 91
Mean −0.01738
Std Dev 0.9414

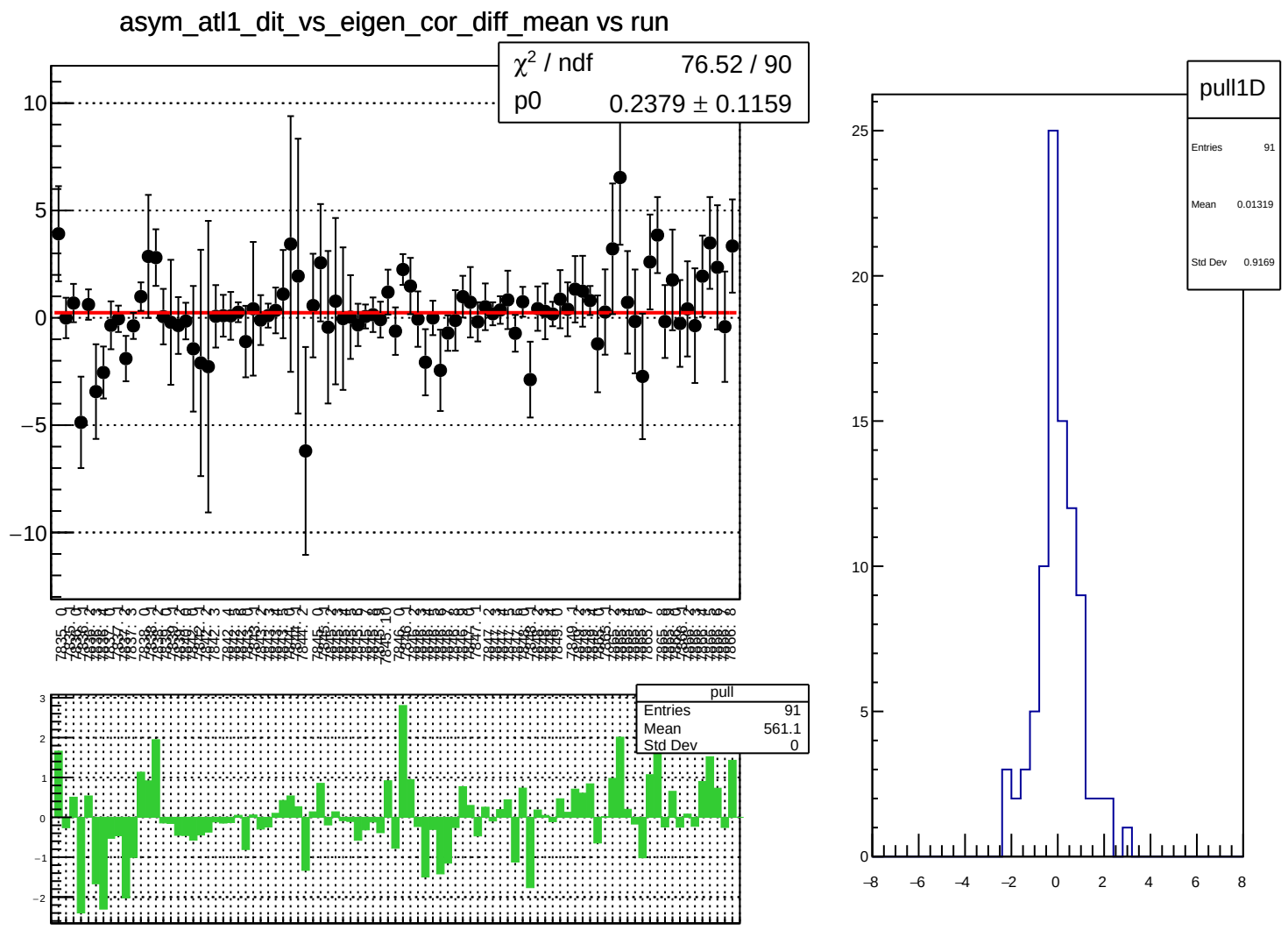

asym_atl1_rms vs run
χ² / ndf 1392 / 90
p0 2554 ± 1.929
2800
2750
2700
2650
2600
2550
2500
2450
2400

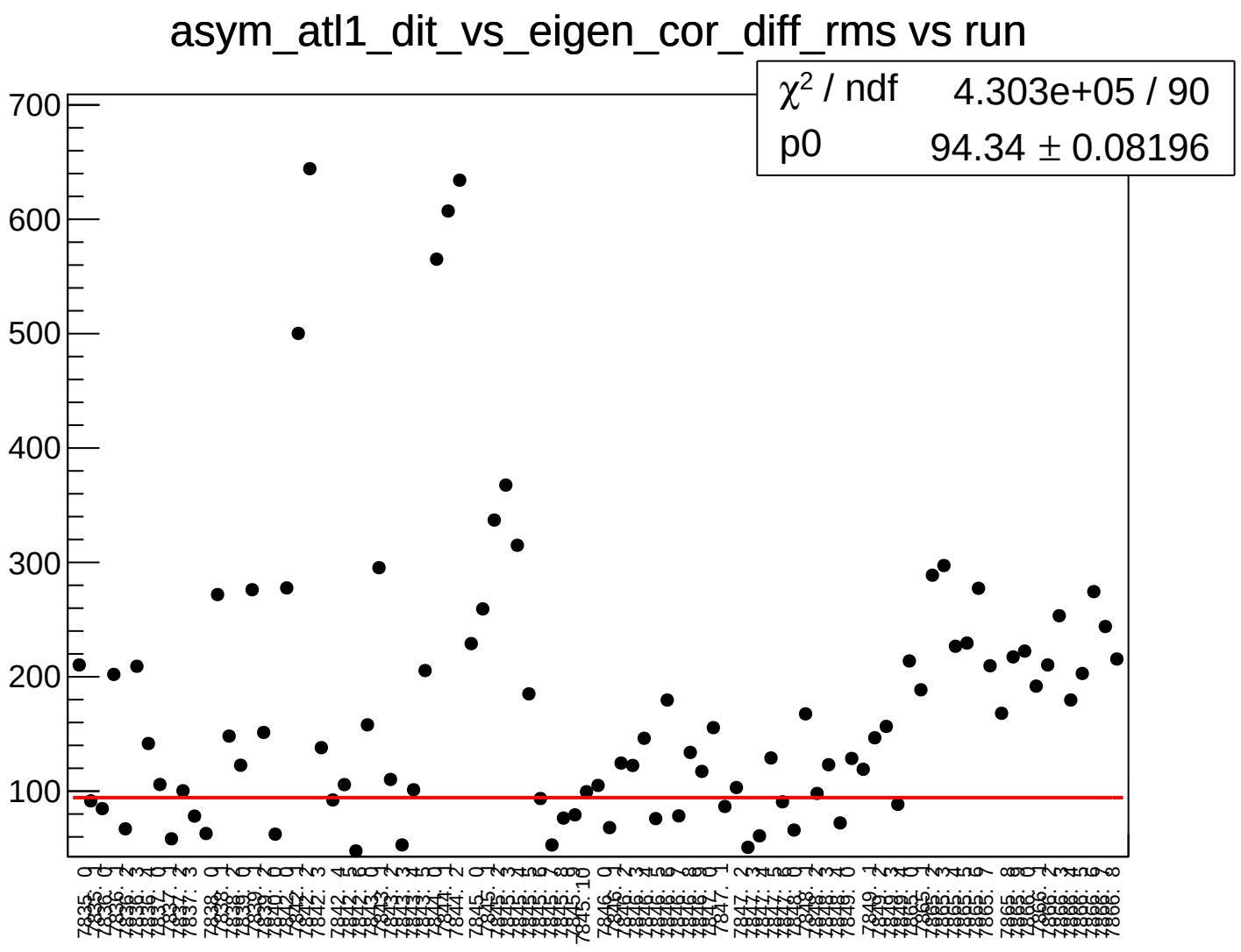

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 90
p0 1.405e−13 ± 2.204e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 91
Mean 79.62
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.126
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

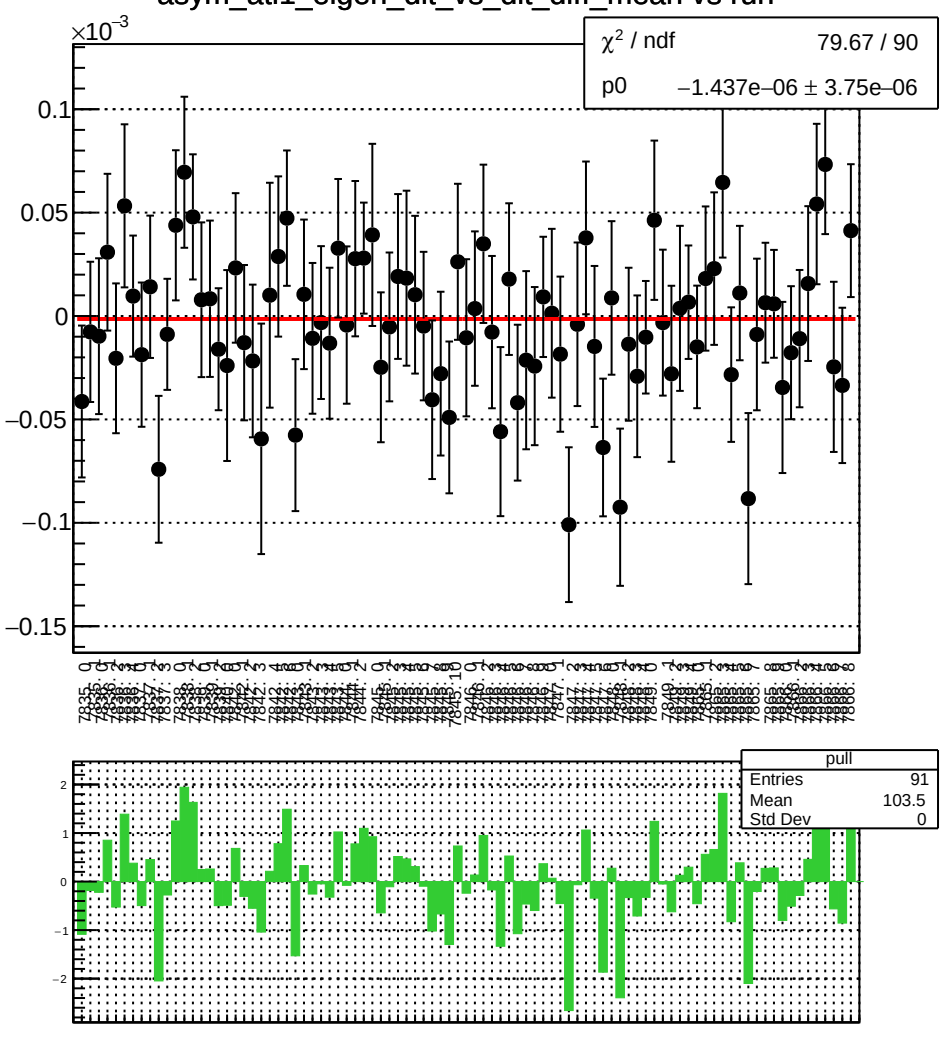

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 90
p0 1.264e−10 ± 1.558e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

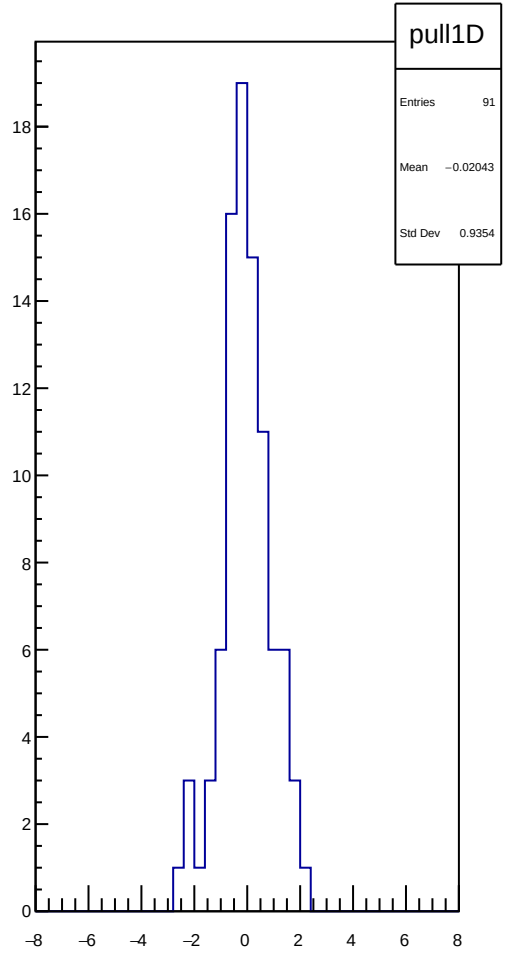

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 76.52 / 90
p0 0.2379 ± 0.1159
pull
Entries 91
Mean 561.1
Std Dev 0
pull1D
Entries 91
Mean 0.01319
Std Dev 0.9169

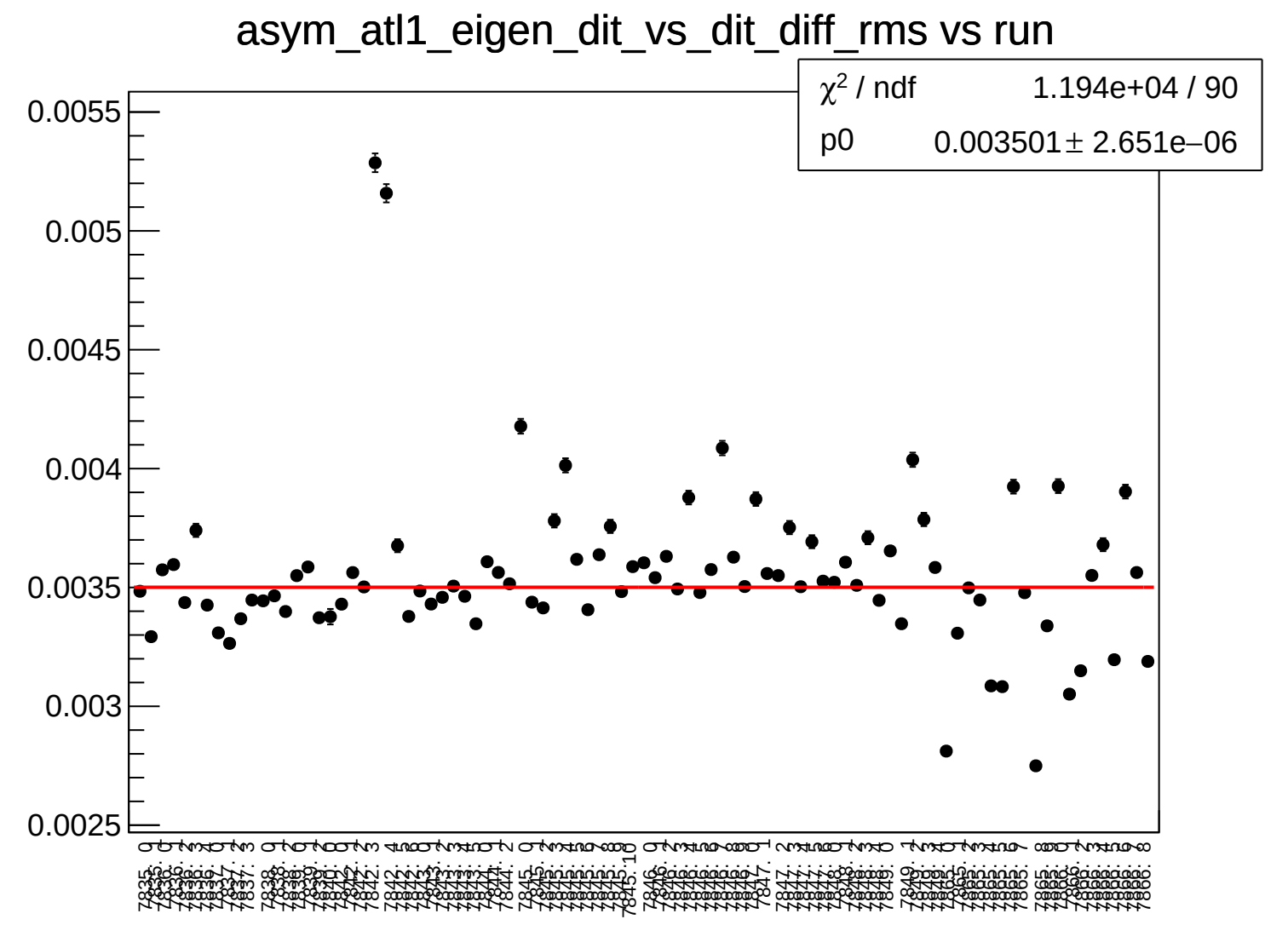

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.303e+05 / 90
p0 94.34 ± 0.08196
700
600
500
400
300
200
100

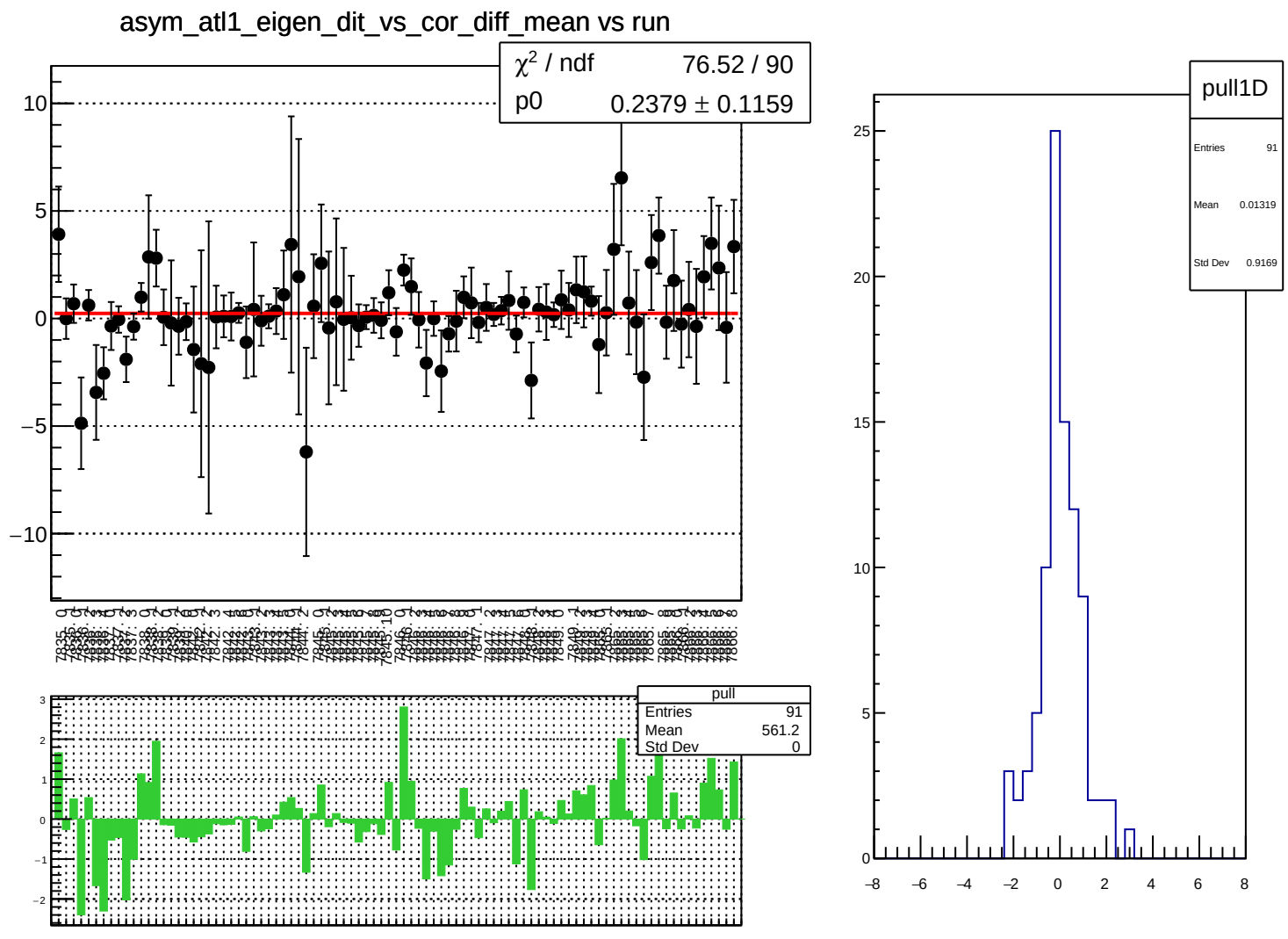

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.52 / 90
p0 0.2379 ± 0.1159
pull
Entries 91
Mean 561.1
Std Dev 0
pull1D
Entries 91
Mean 0.01319
Std Dev 0.9169

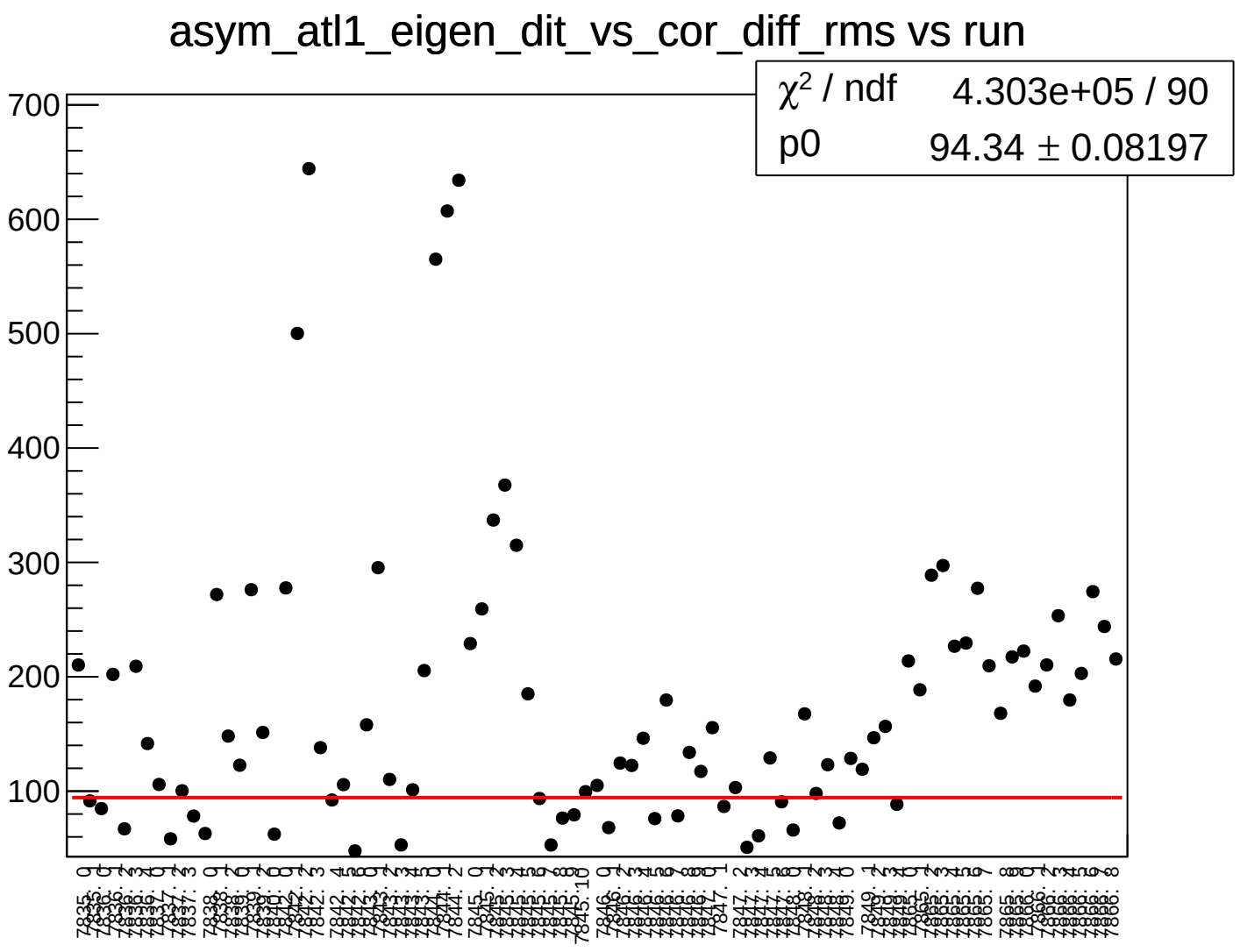

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.303e+05 / 90
p0 94.34 ± 0.08196
700
600
500
400
300
200
100

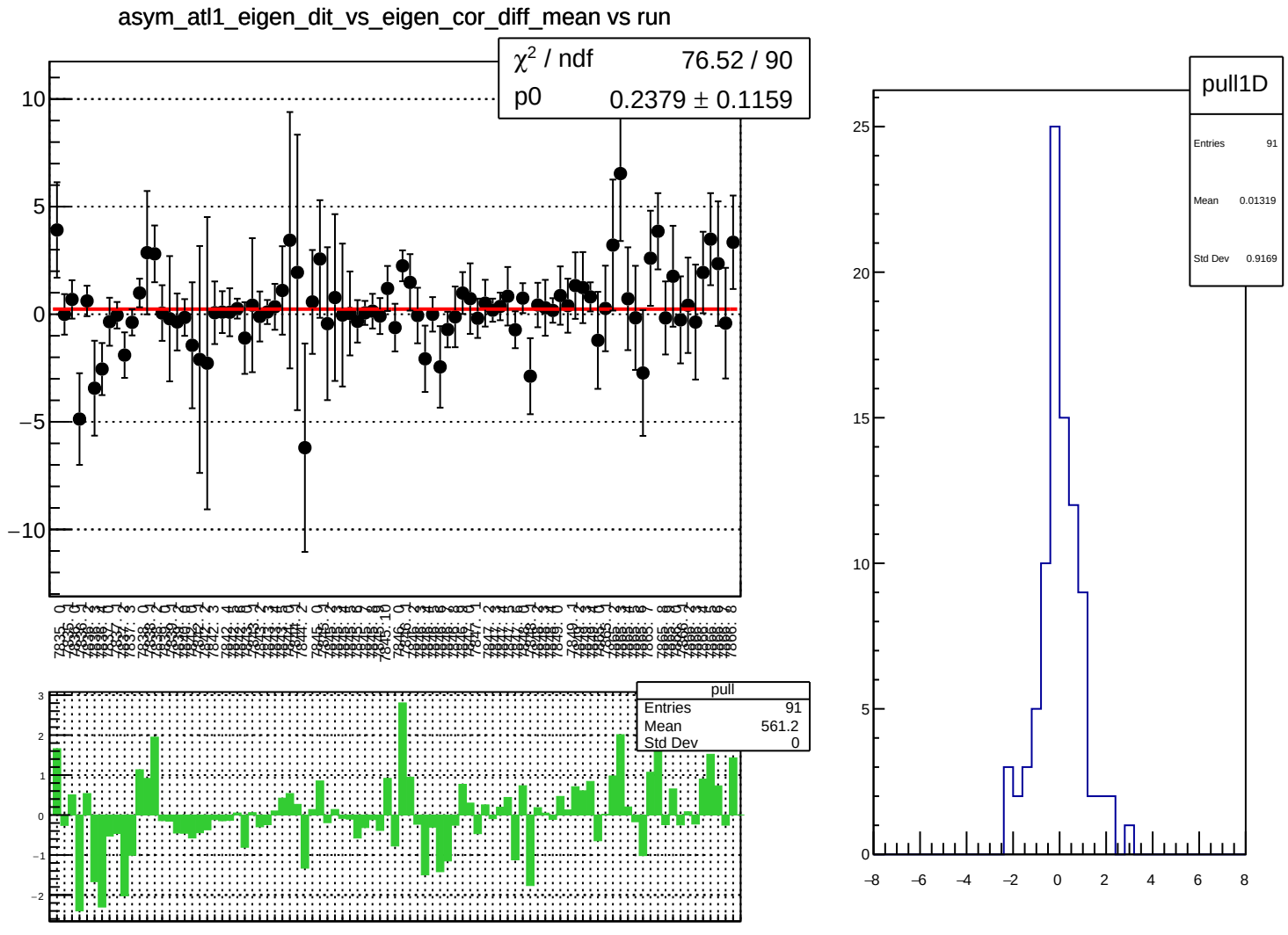

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.67 / 90
p0 −1.437e−06 ± 3.75e−06
pull
Entries 91
Mean 103.5
Std Dev 0

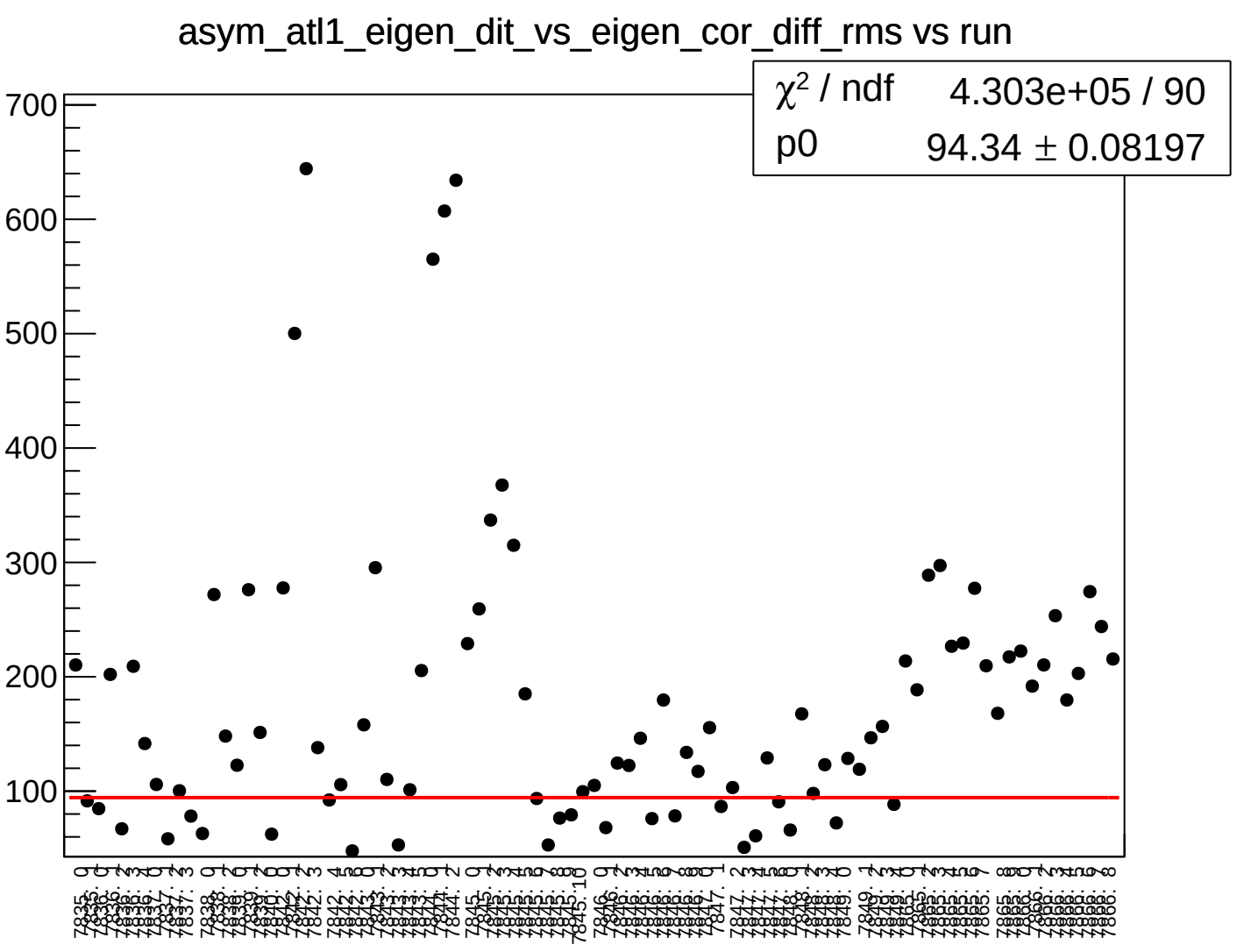

pull1D
Entries 91
Mean −0.02043
Std Dev 0.9354

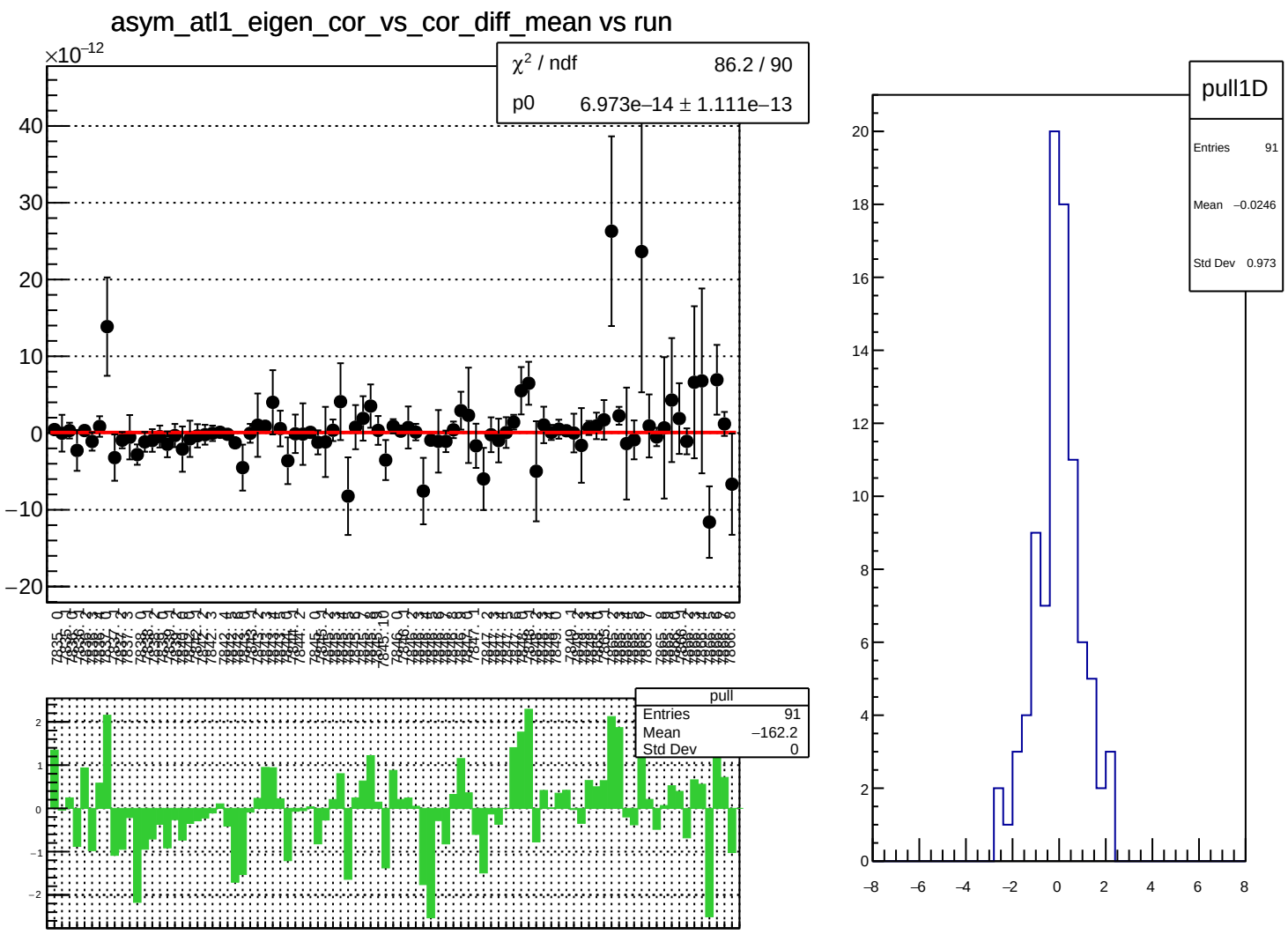

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.194e+04 / 90
p0 0.003501 ± 2.651e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

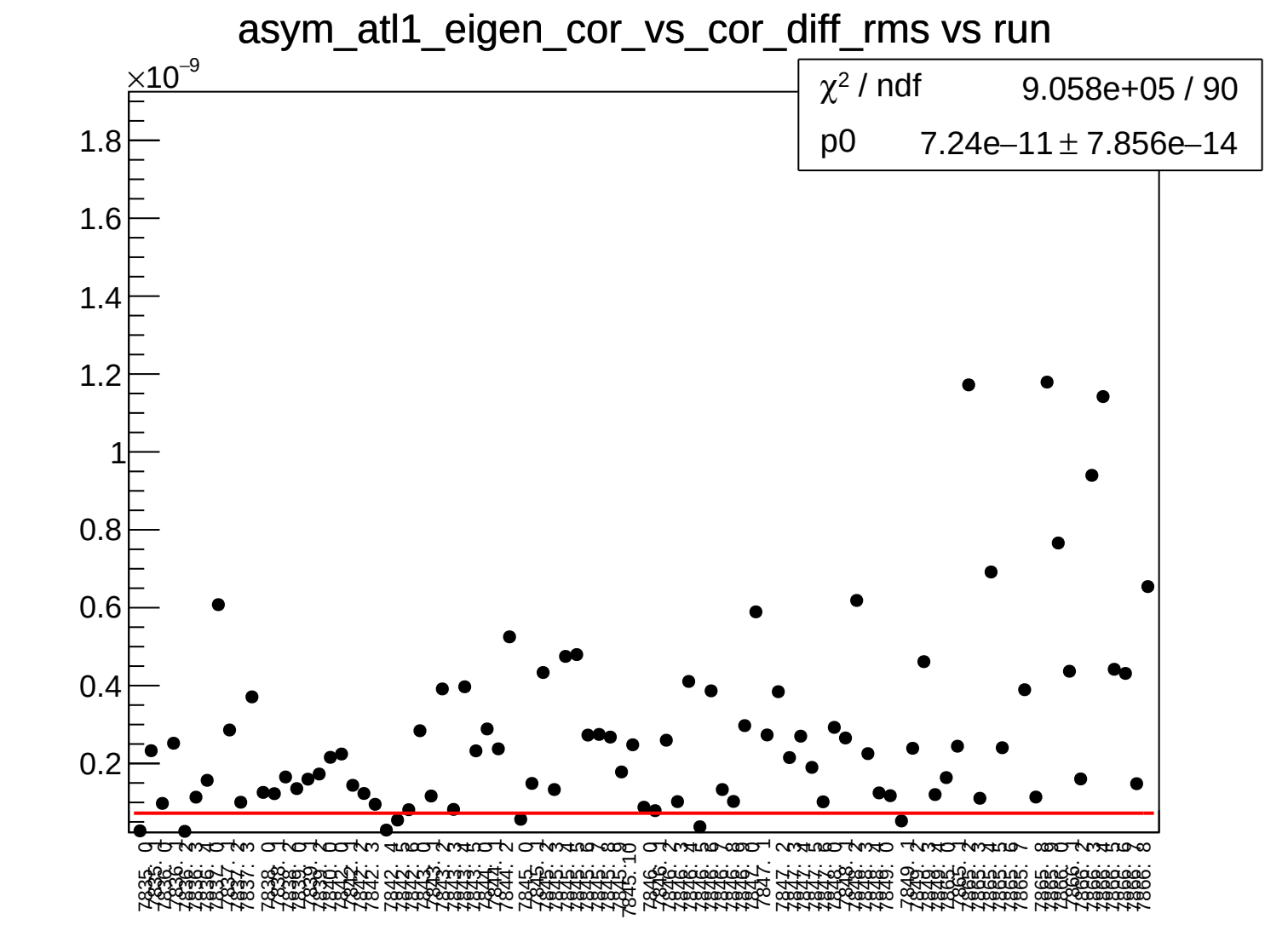

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.52 / 90
p0 0.2379 ± 0.1159
pull
Entries 91
Mean 561.2
Std Dev 0
pull1D
Entries 91
Mean 0.01319
Std Dev 0.9169

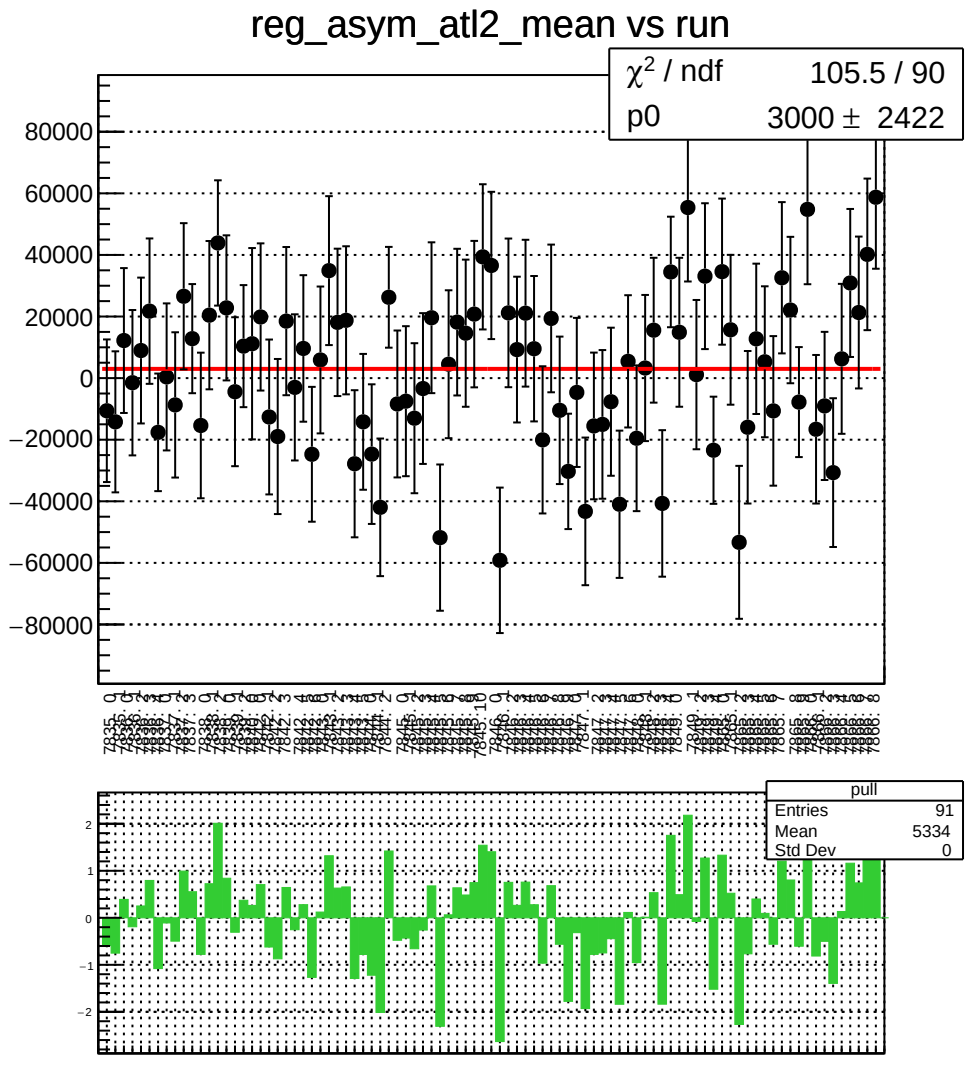

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.303e+05 / 90
p0 94.34 ± 0.08197
700
600
500
400
300
200
100

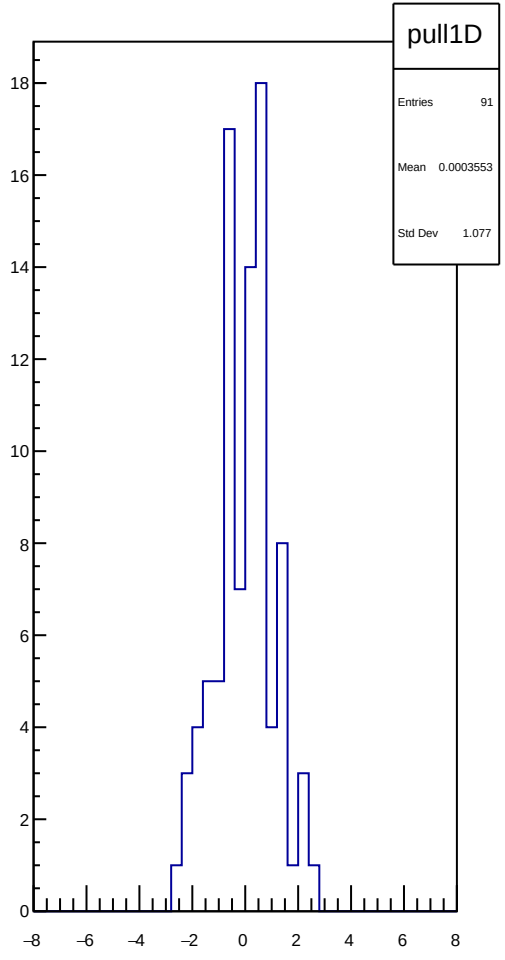

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.52 / 90
p0 0.2379 ± 0.1159
pull
Entries 91
Mean 561.2
Std Dev 0
pull1D
Entries 91
Mean 0.01319
Std Dev 0.9169

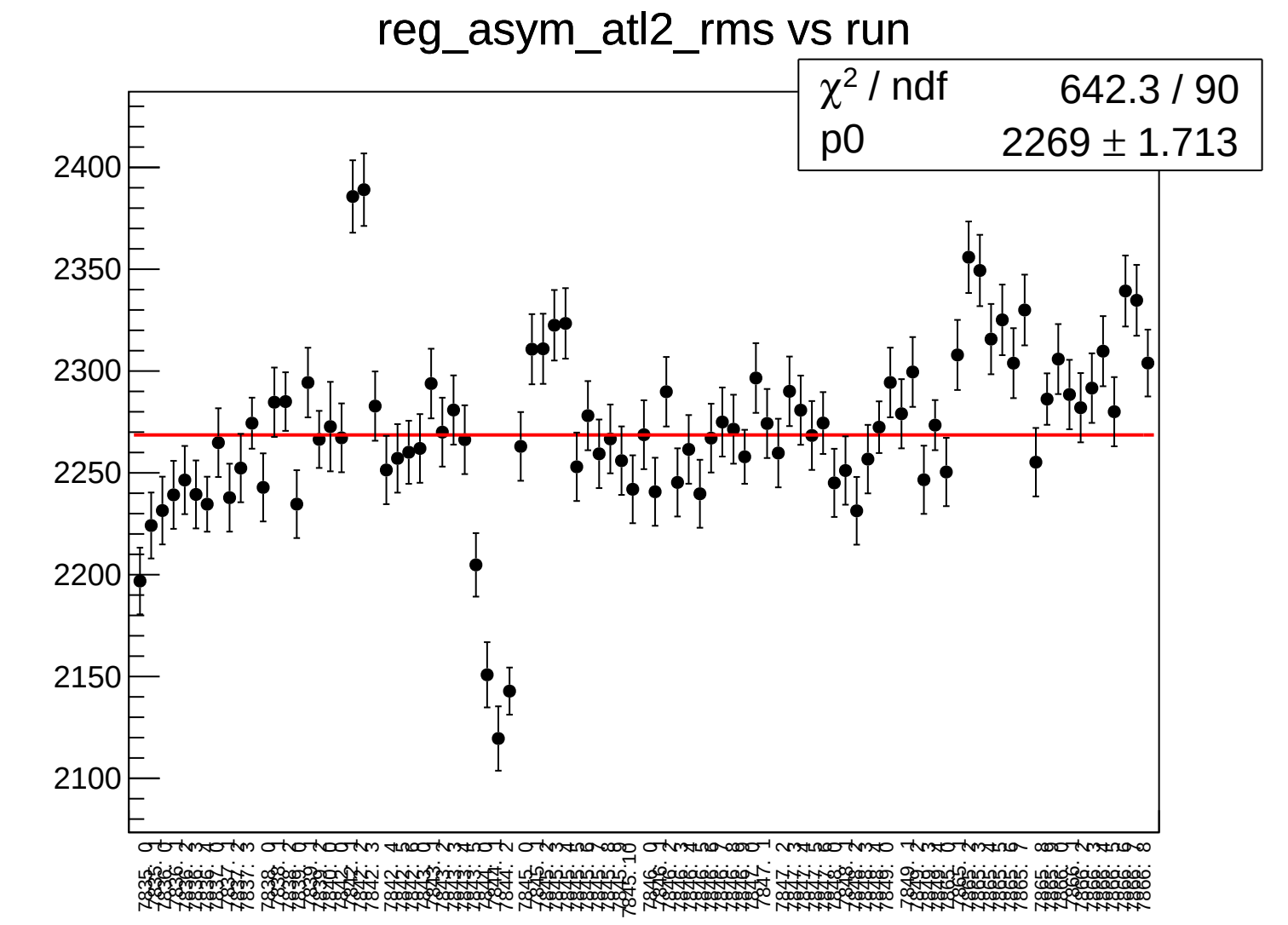

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.303e+05 / 90
p0 94.34 ± 0.08197
700
600
500
400
300
200
100

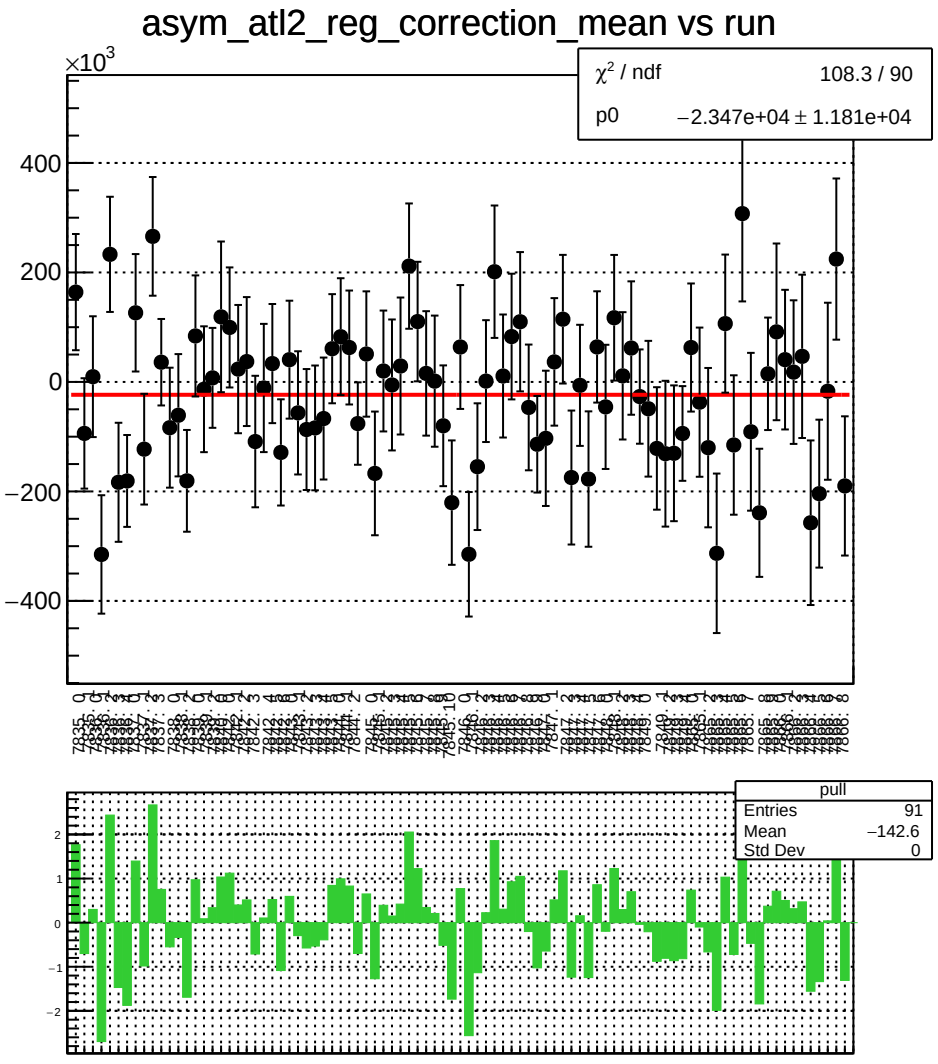

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.2 / 90
p0 6.973e−14 ± 1.111e−13
pull
Entries 91
Mean −162.2
Std Dev 0
pull1D
Entries 91
Mean −0.0246
Std Dev 0.973

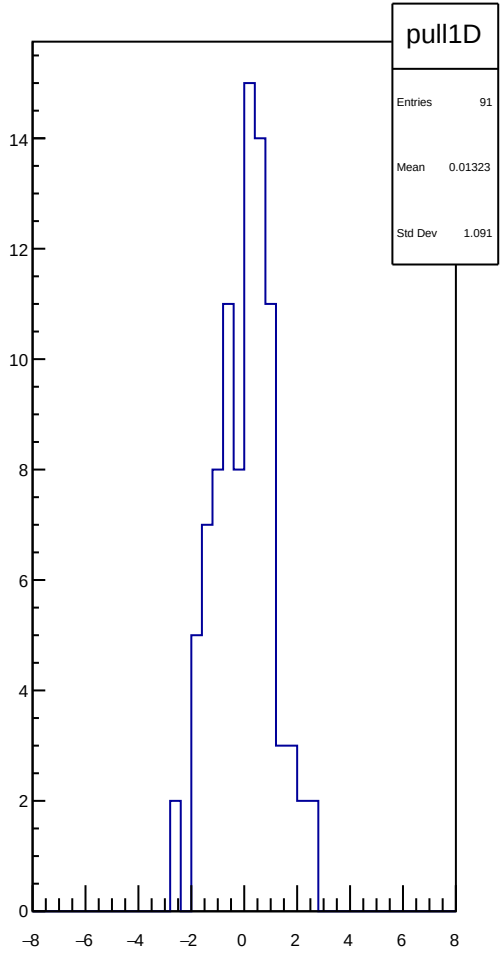

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.058e+05 / 90
p0 7.24e−11 ± 7.856e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

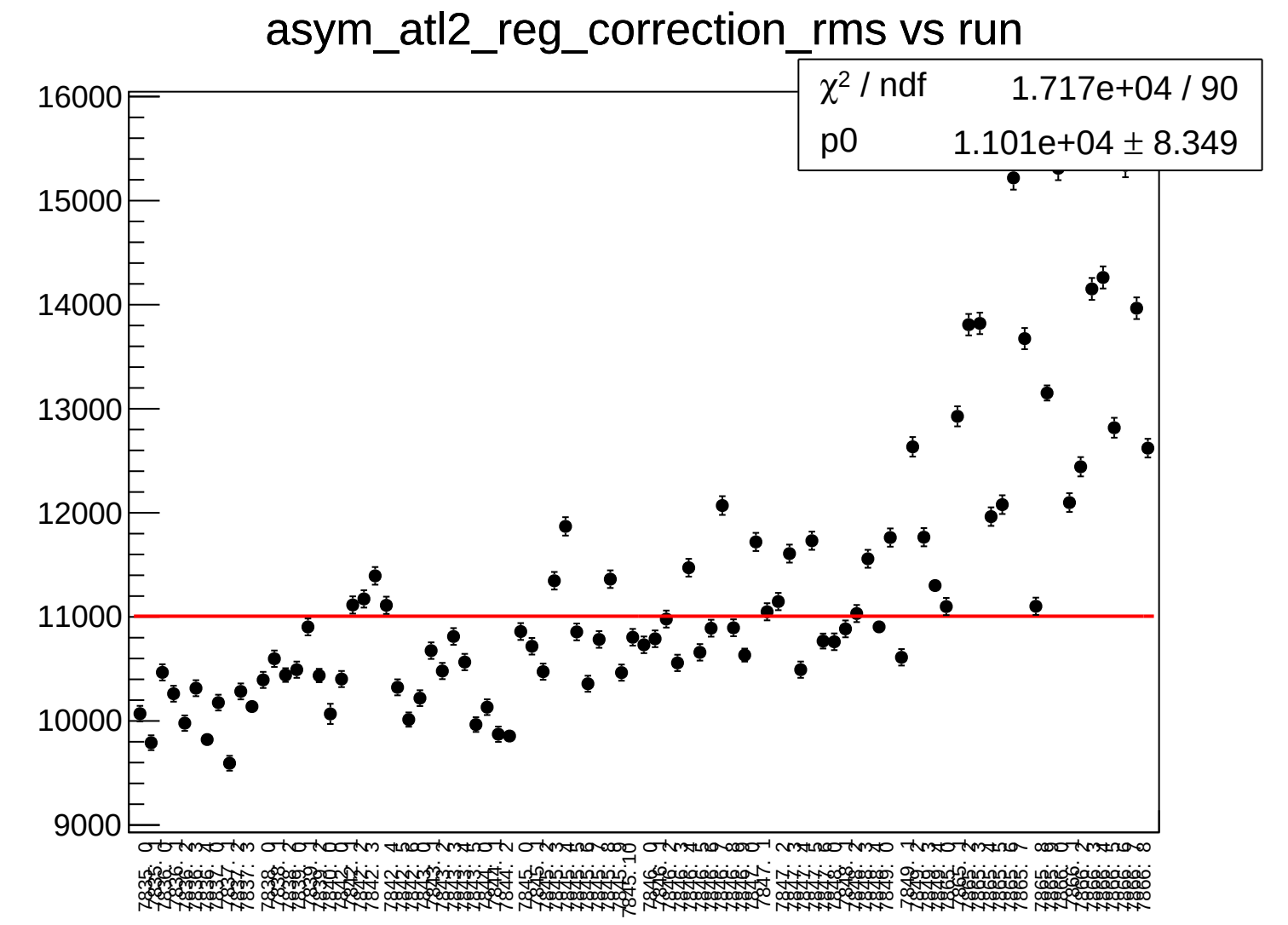

reg_asym_atl2_mean vs run
χ² / ndf 105.5 / 90
p0 3000 ± 2422
pull
Entries 91
Mean 5334
Std Dev 0

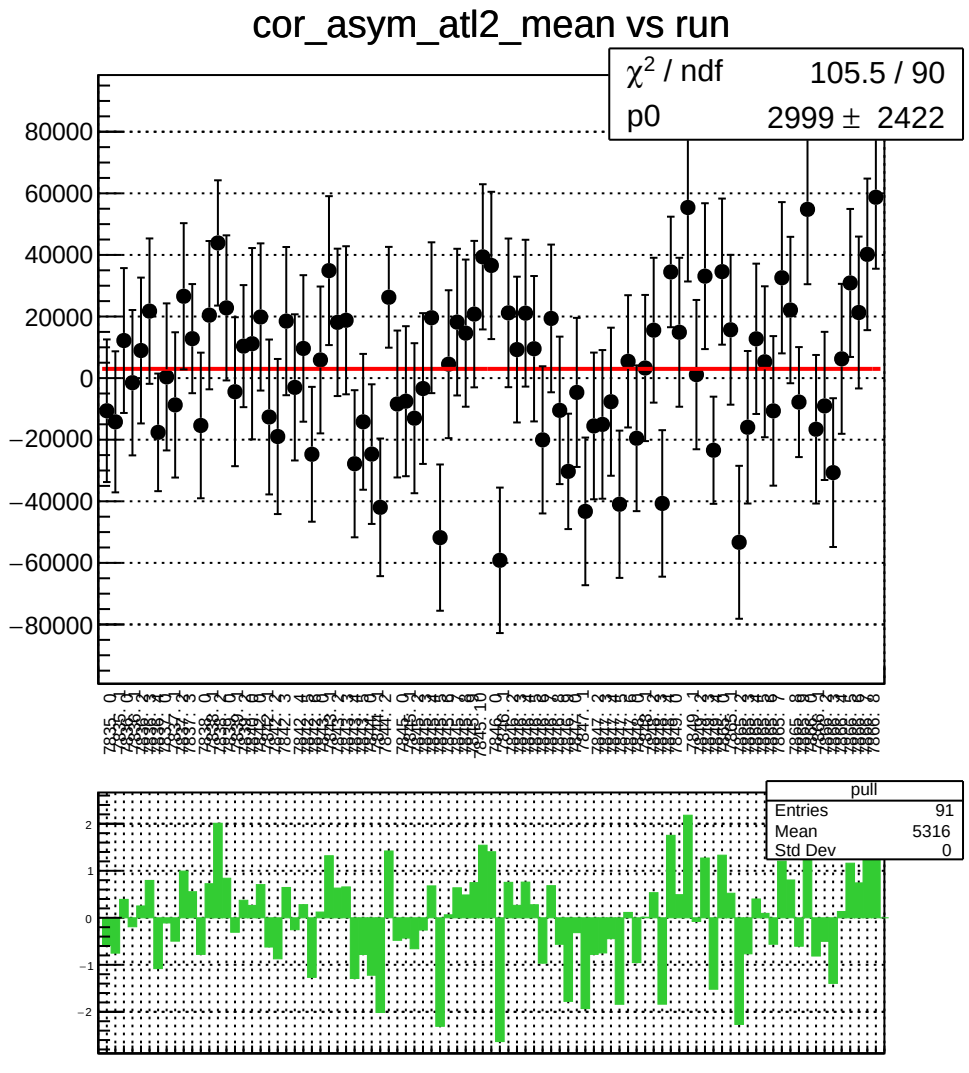

pull1D
Entries 91
Mean 0.0003553
Std Dev 1.077

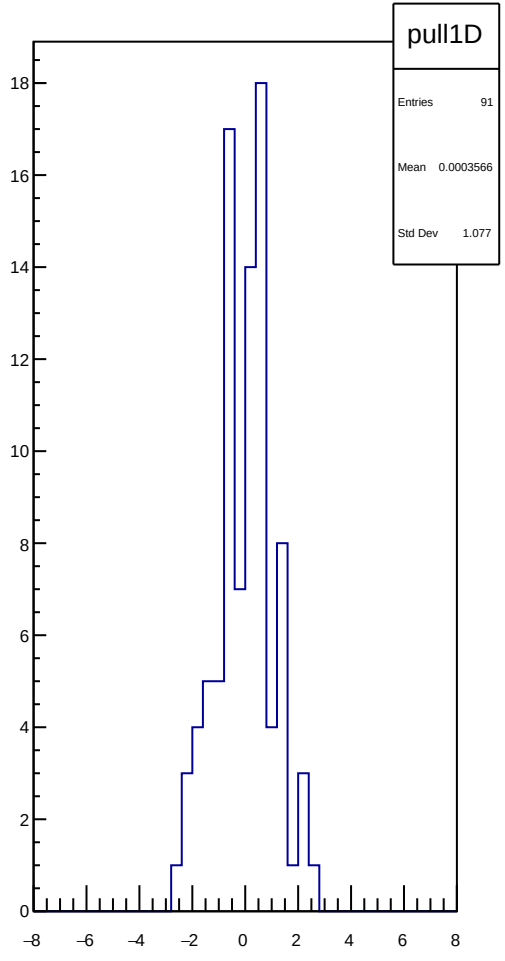

reg_asym_atl2_rms vs run
χ² / ndf 642.3 / 90
p0 2269 ± 1.713
2400
2350
2300
2250
2200
2150
2100

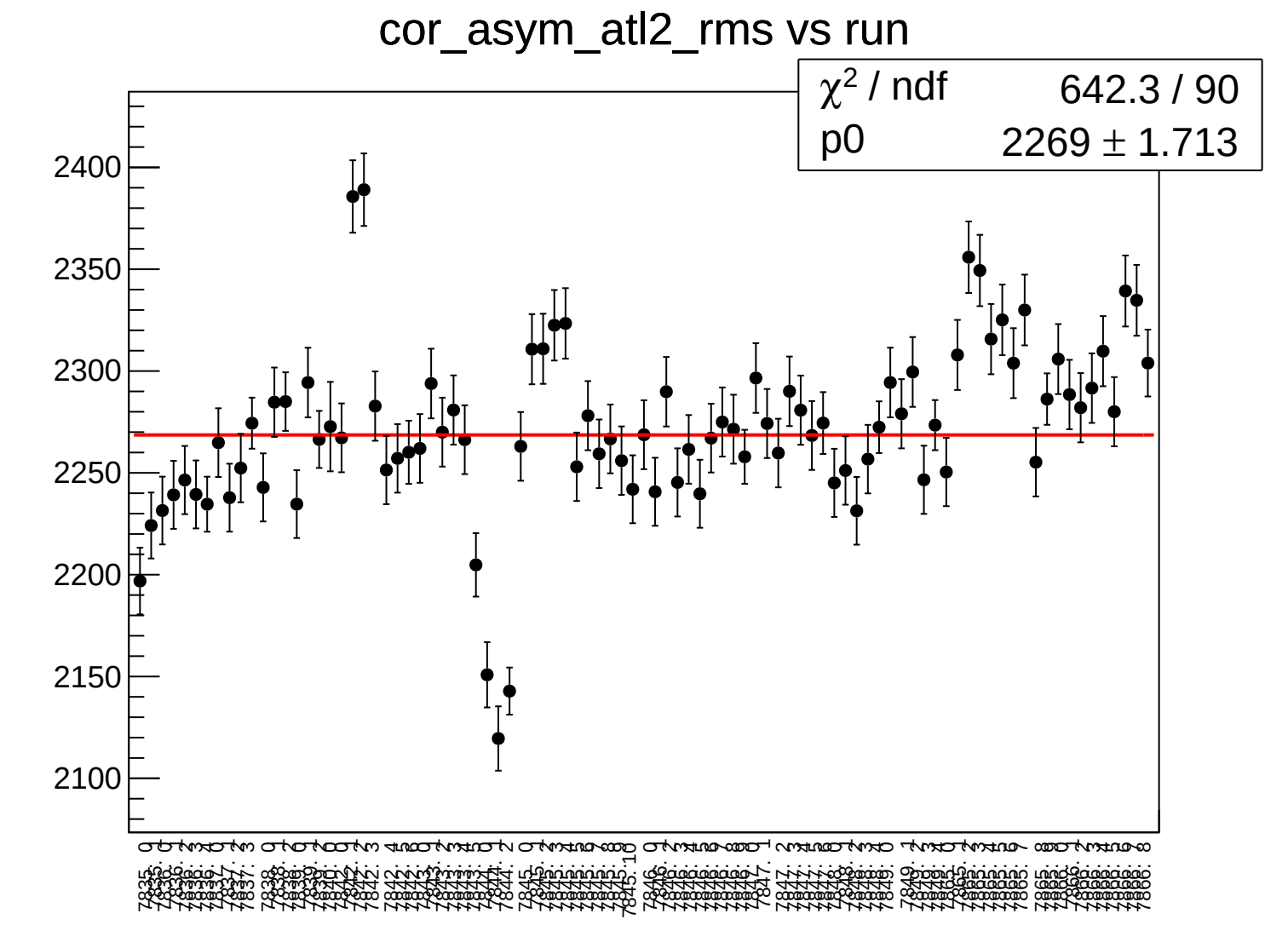

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 108.3 / 90
p0 −2.347e+04 ± 1.181e+04
400
200
0
−200
−400
pull
Entries 91
Mean −142.6
Std Dev 0
2
1
0
−1
−2

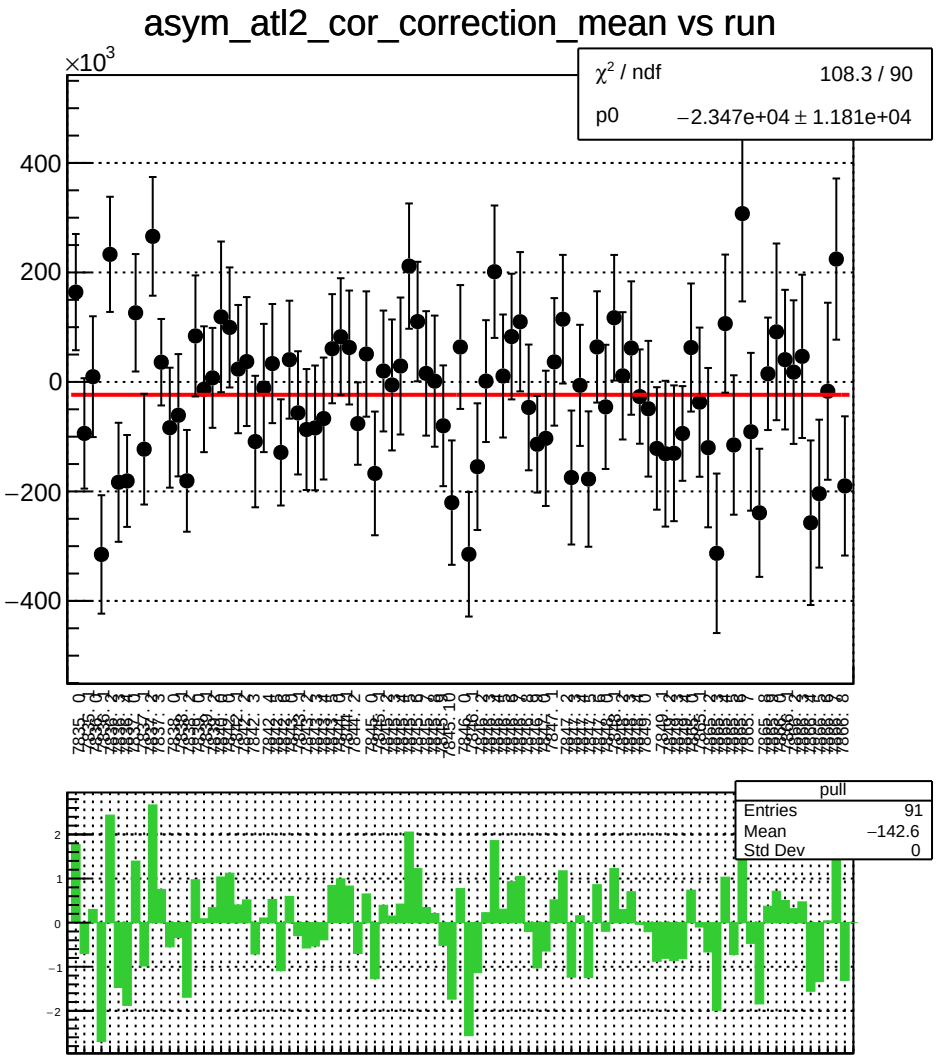

pull1D
Entries 91
Mean 0.01323
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

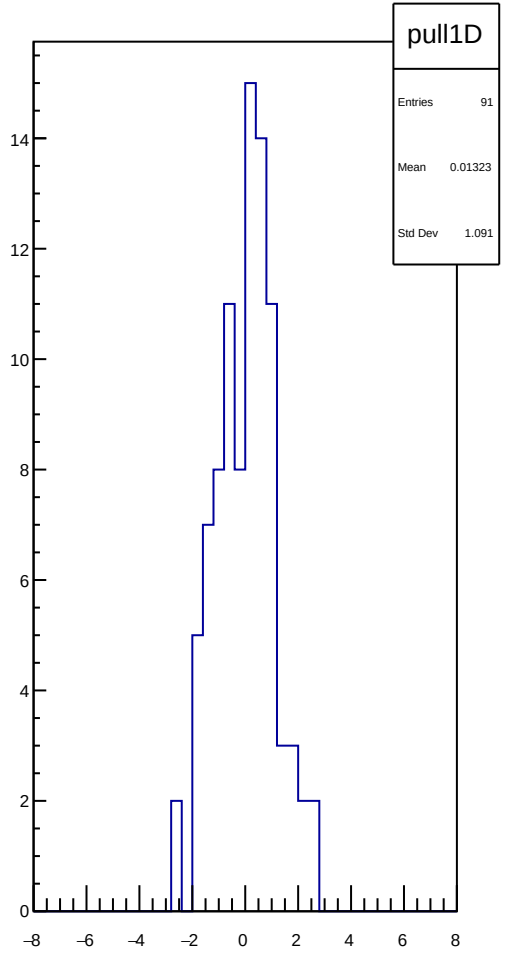

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.717e+04 / 90
p0 1.101e+04 ± 8.349
16000
15000
14000
13000
12000
11000
10000
9000

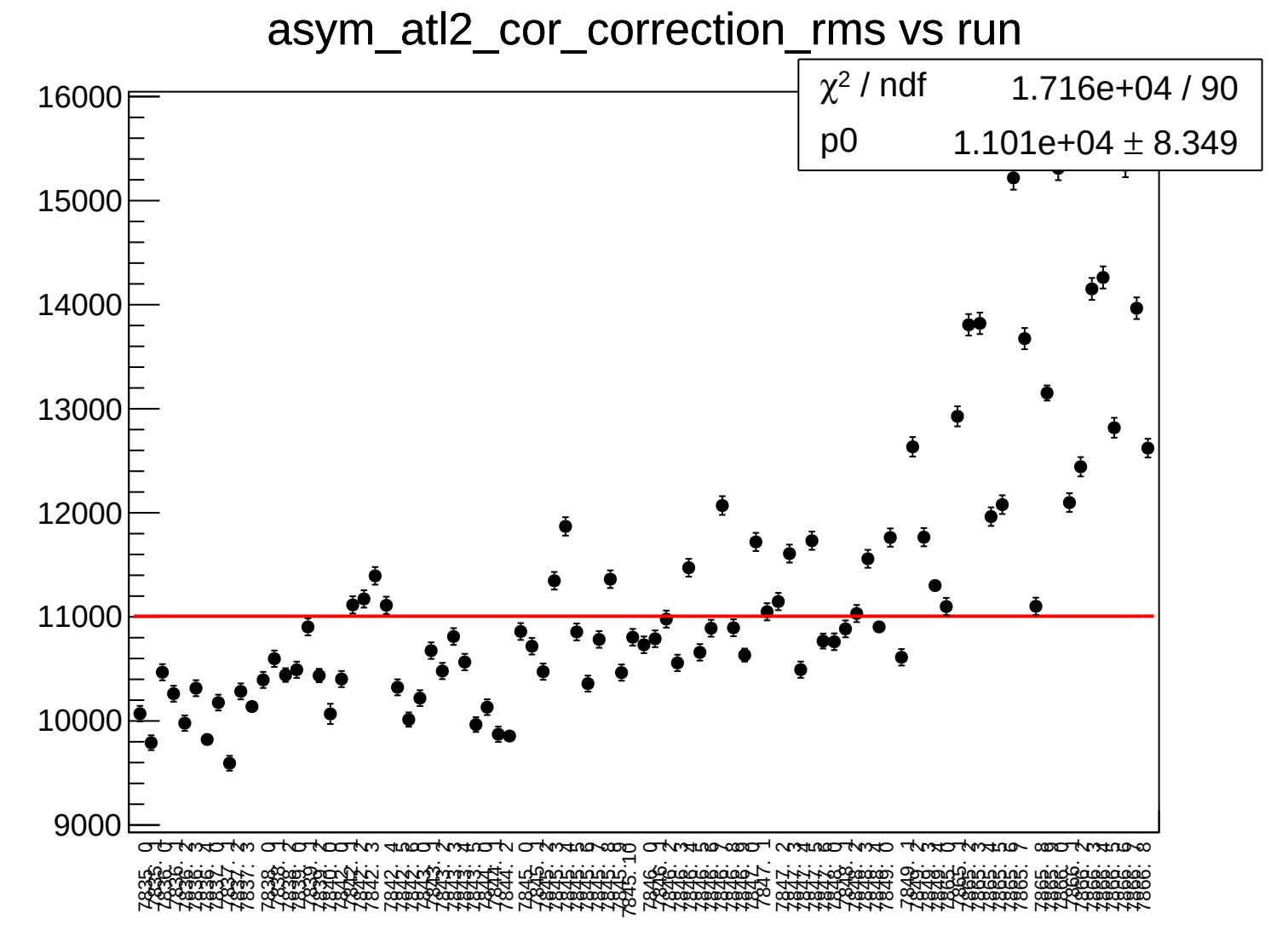

cor_asym_atl2_mean vs run
χ² / ndf 105.5 / 90
p0 2999 ± 2422
pull
Entries 91
Mean 5316
Std Dev 0

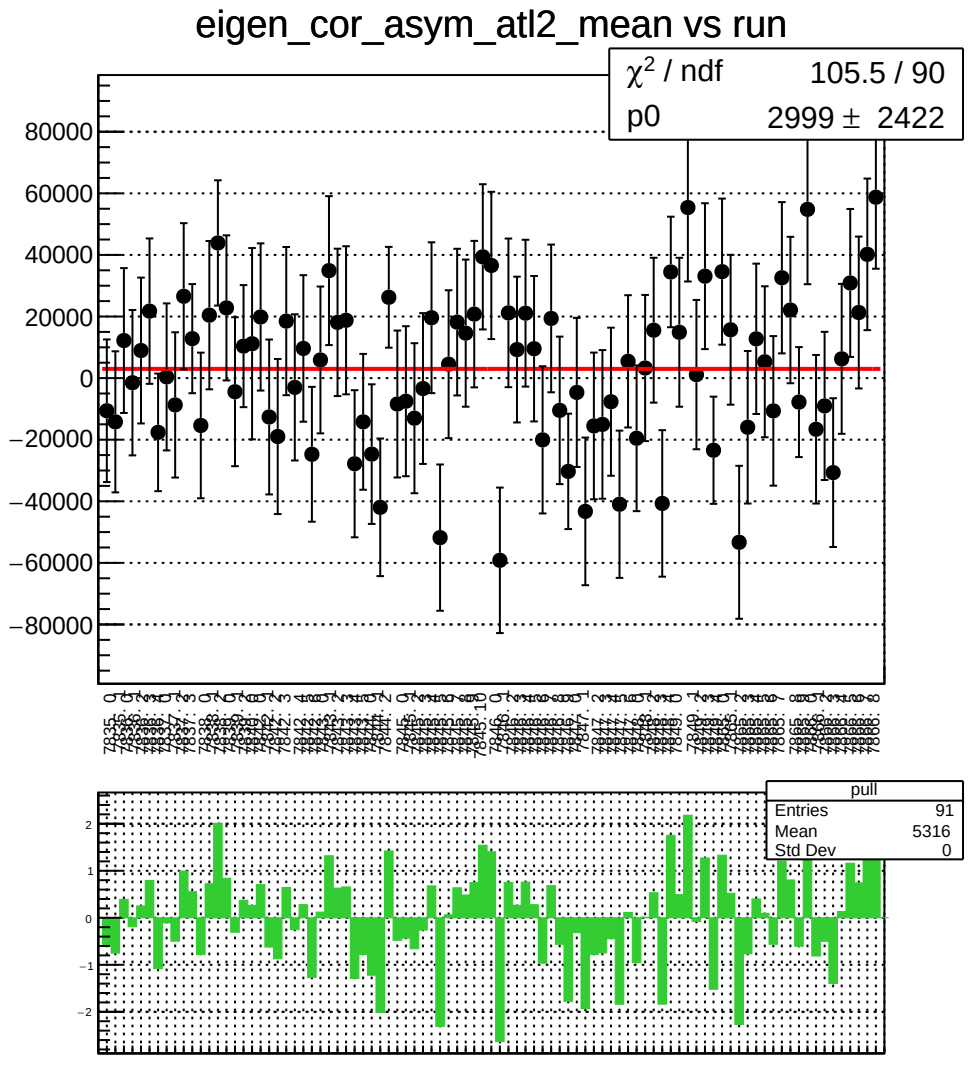

pull1D
Entries 91
Mean 0.0003566
Std Dev 1.077

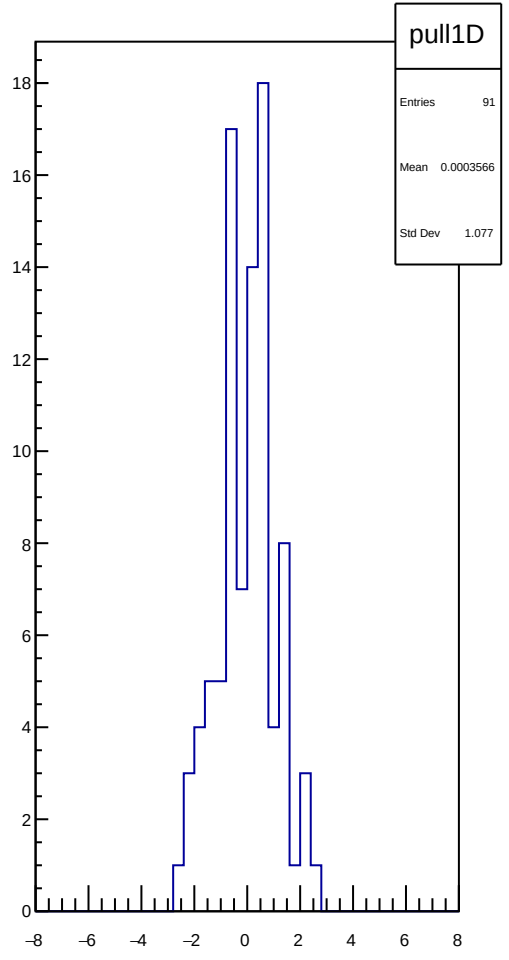

cor_asym_atl2_rms vs run
χ² / ndf 642.3 / 90
p0 2269 ± 1.713
2400
2350
2300
2250
2200
2150
2100

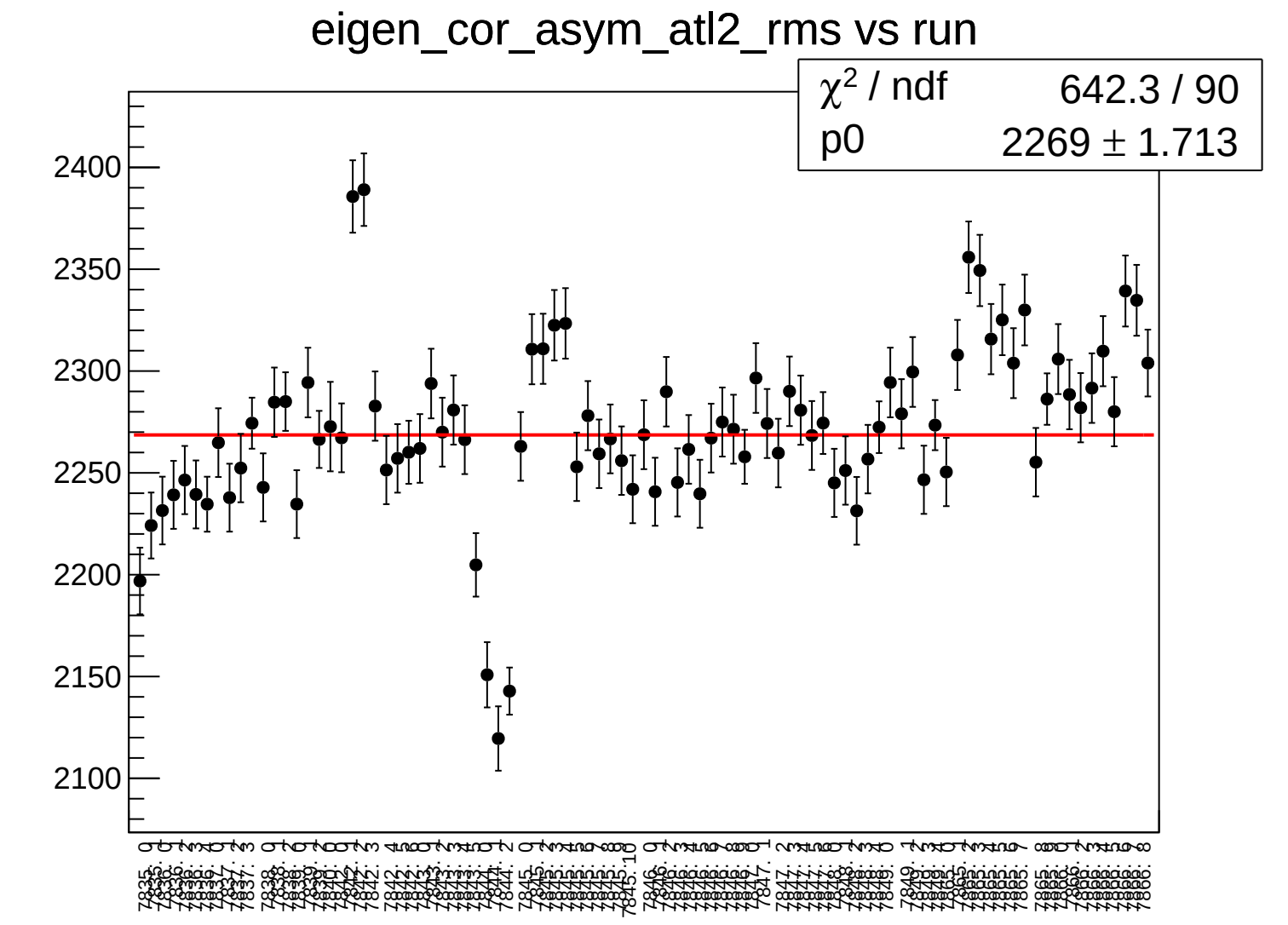

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 108.3 / 90
p0 −2.347e+04 ± 1.181e+04
400
200
0
−200
−400
pull
Entries 91
Mean −142.6
Std Dev 0
2
1
0
−1
−2

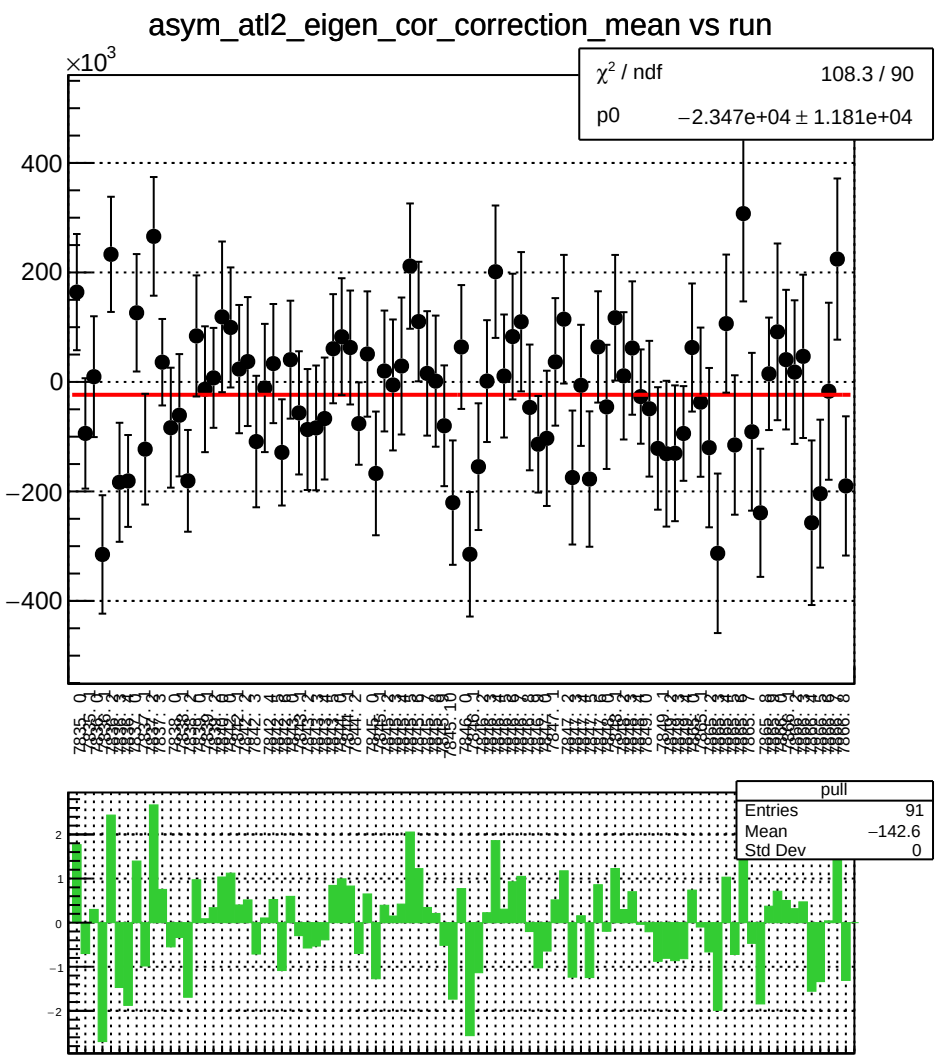

pull1D
Entries 91
Mean 0.01323
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

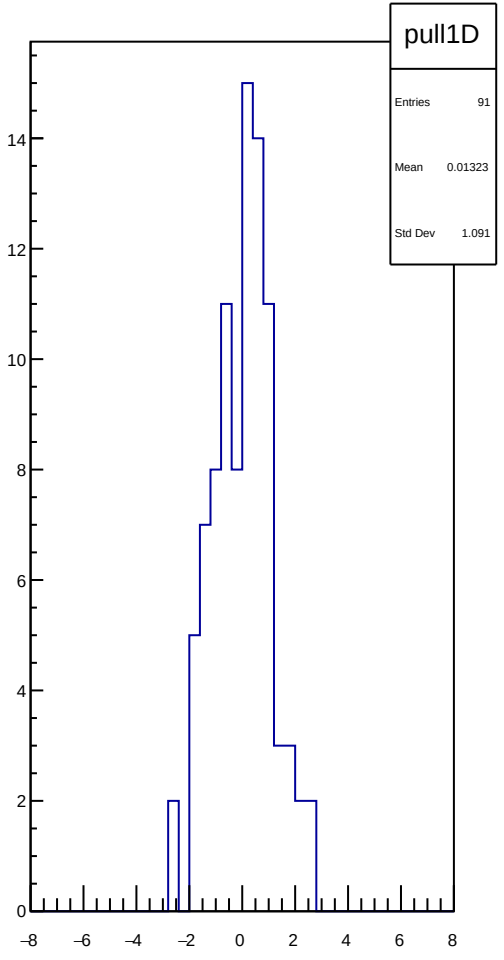

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.716e+04 / 90
p0 1.101e+04 ± 8.349
16000
15000
14000
13000
12000
11000
10000
9000

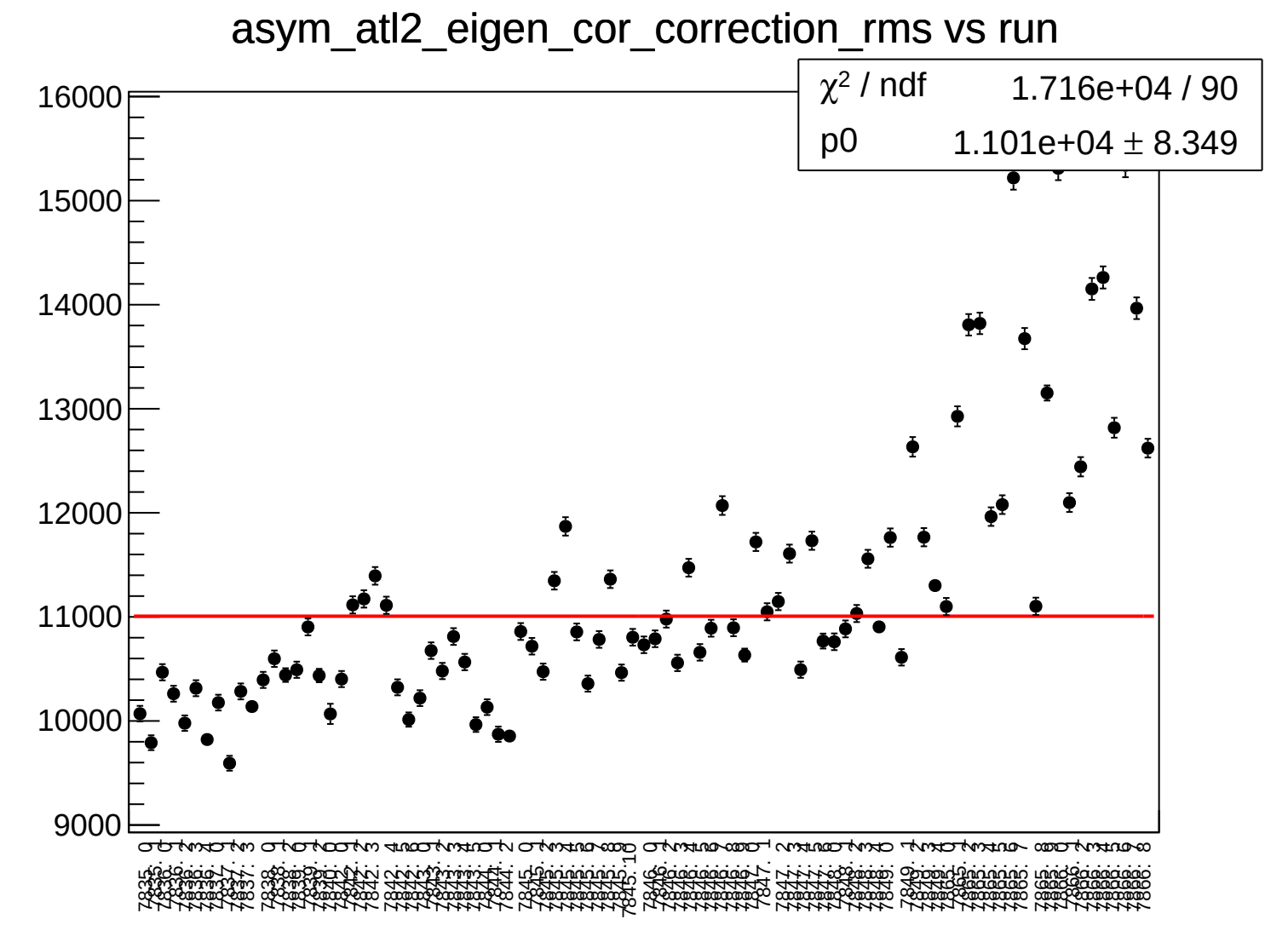

eigen_cor_asym_atl2_mean vs run
χ² / ndf 105.5 / 90
p0 2999 ± 2422
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 5316
Std Dev 0
2
1
0
−1
−2

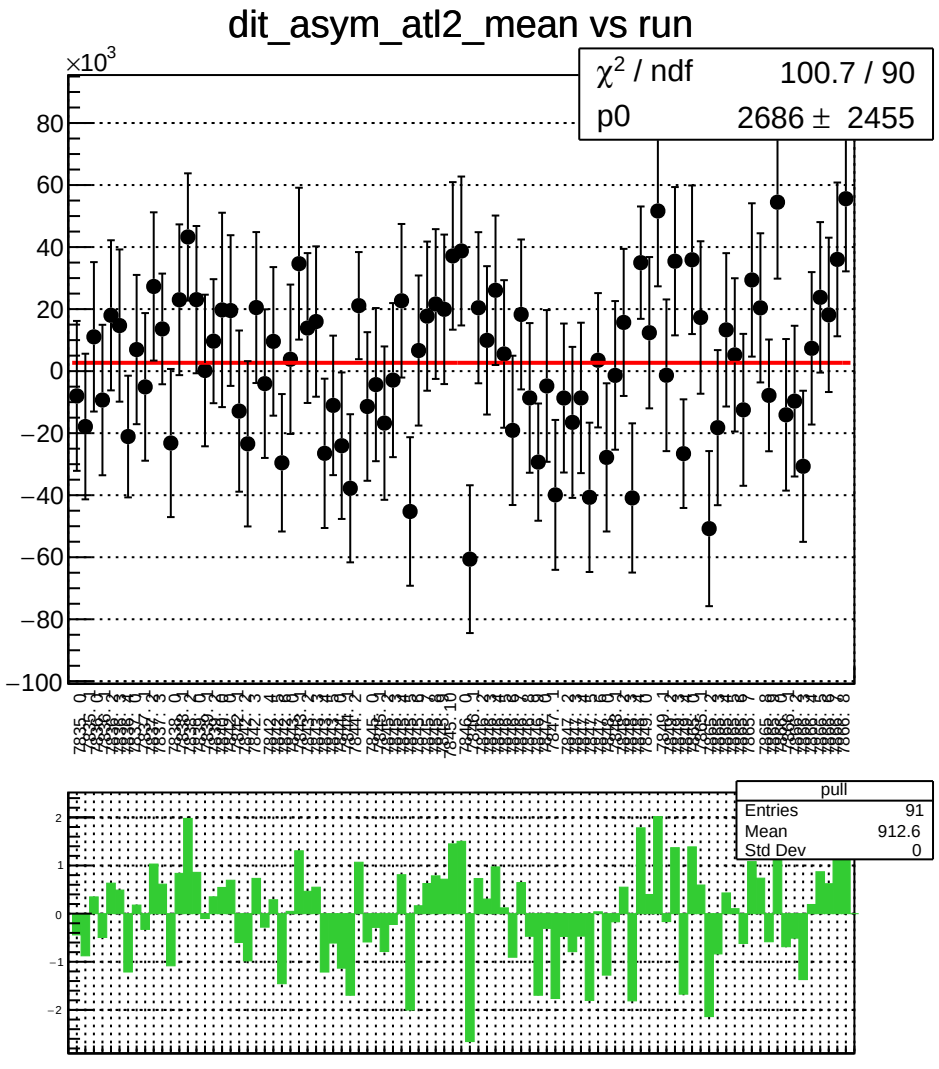

pull1D
Entries 91
Mean 0.0003566
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

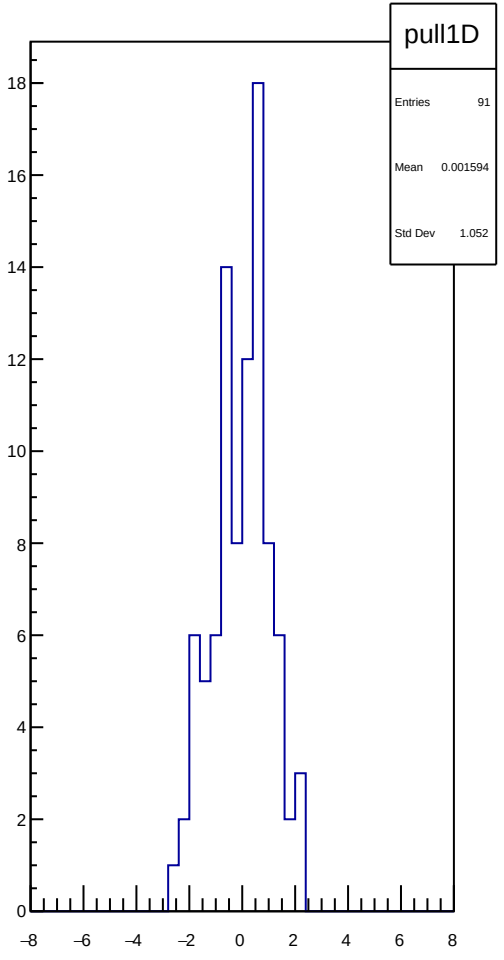

eigen_cor_asym_atl2_rms vs run
χ² / ndf 642.3 / 90
p0 2269 ± 1.713
2400
2350
2300
2250
2200
2150
2100

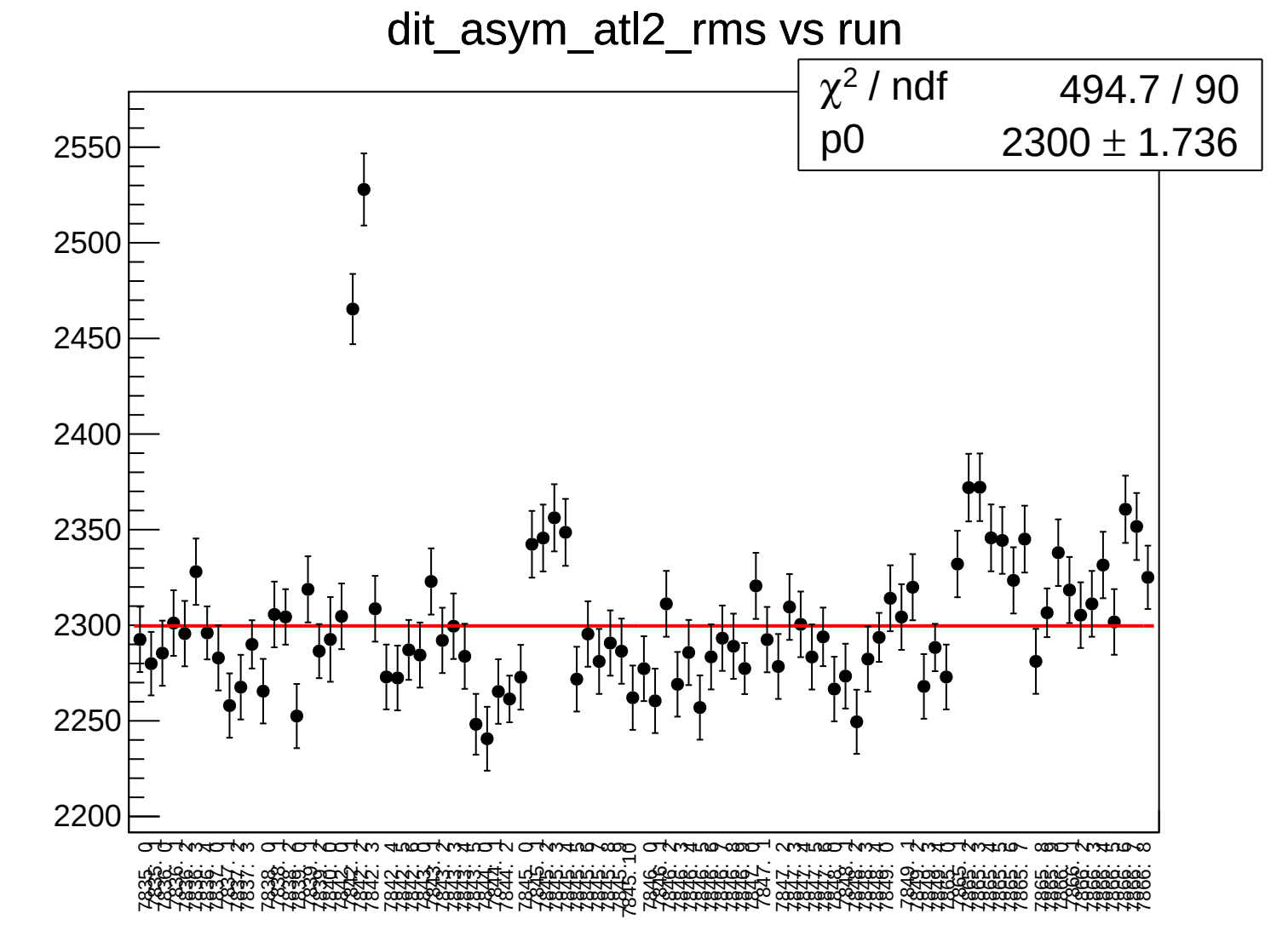

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.3 / 90
p0 −2.347e+04 ± 1.181e+04
400
200
0
−200
−400
pull
Entries 91
Mean −142.6
Std Dev 0
2
1
0
−1
−2

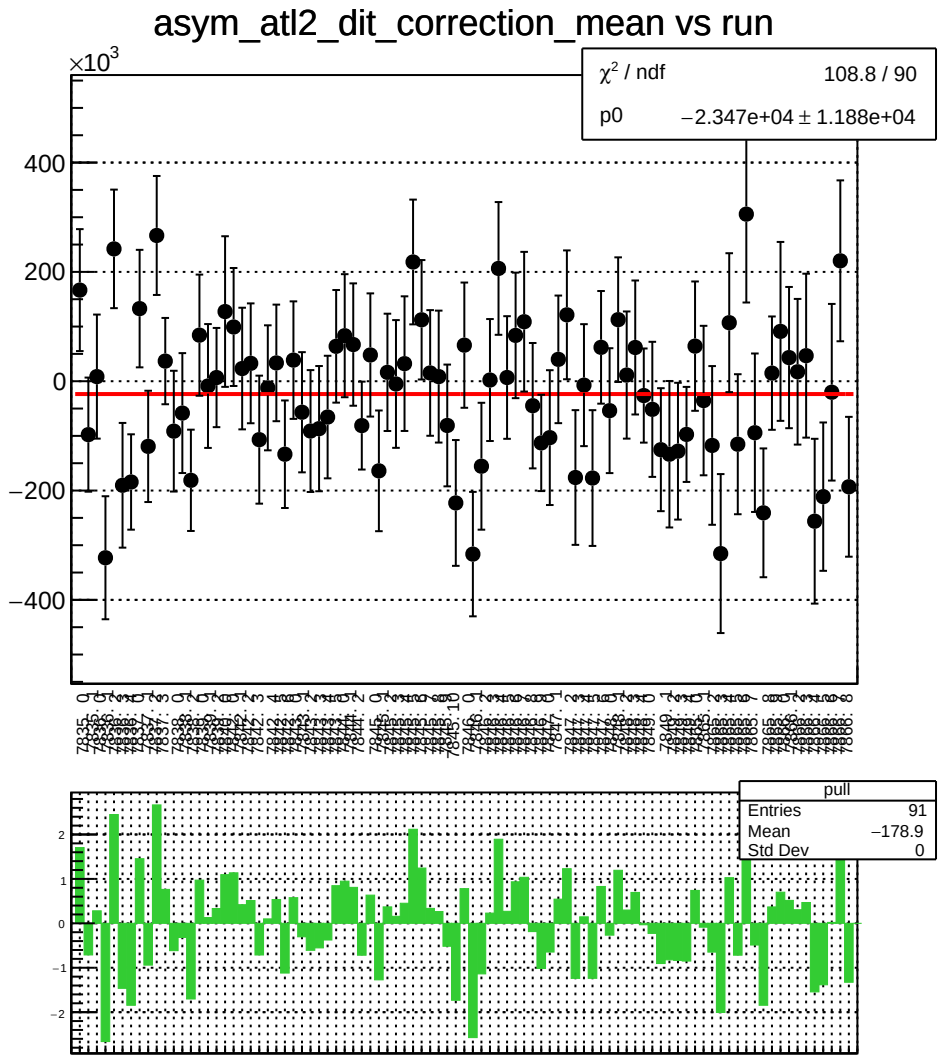

pull1D
Entries 91
Mean 0.01323
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

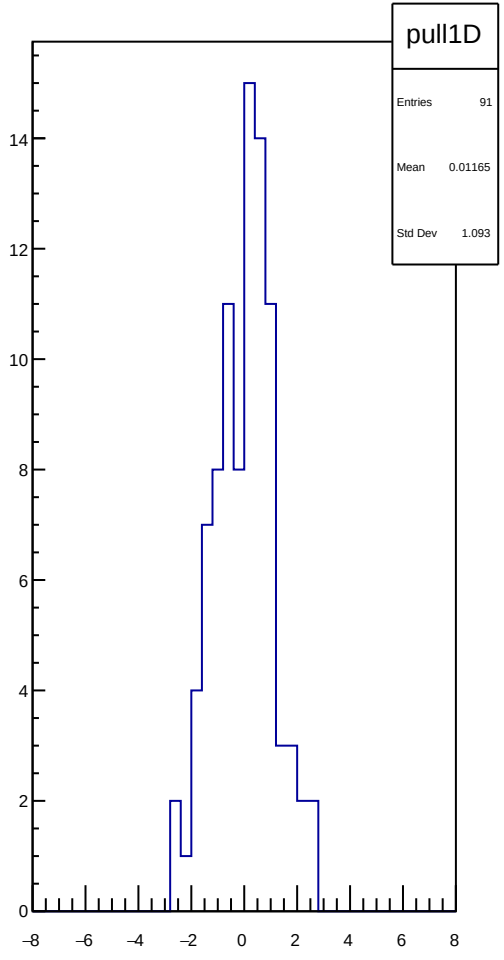

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.716e+04 / 90
p0 1.101e+04 ± 8.349
16000
15000
14000
13000
12000
11000
10000
9000

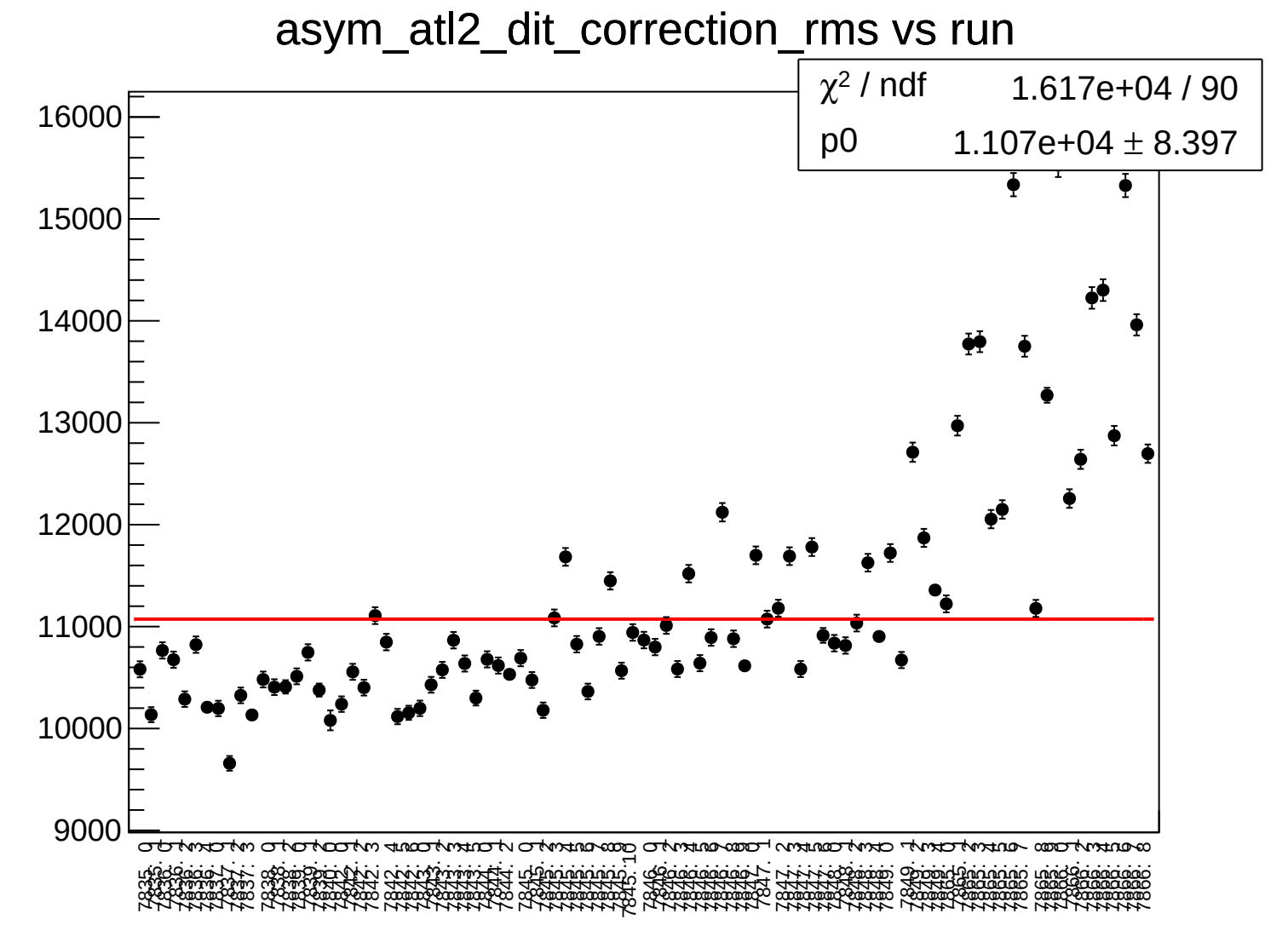

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 100.7 / 90
p0 2686 ± 2455
pull
Entries 91
Mean 912.6
Std Dev 0

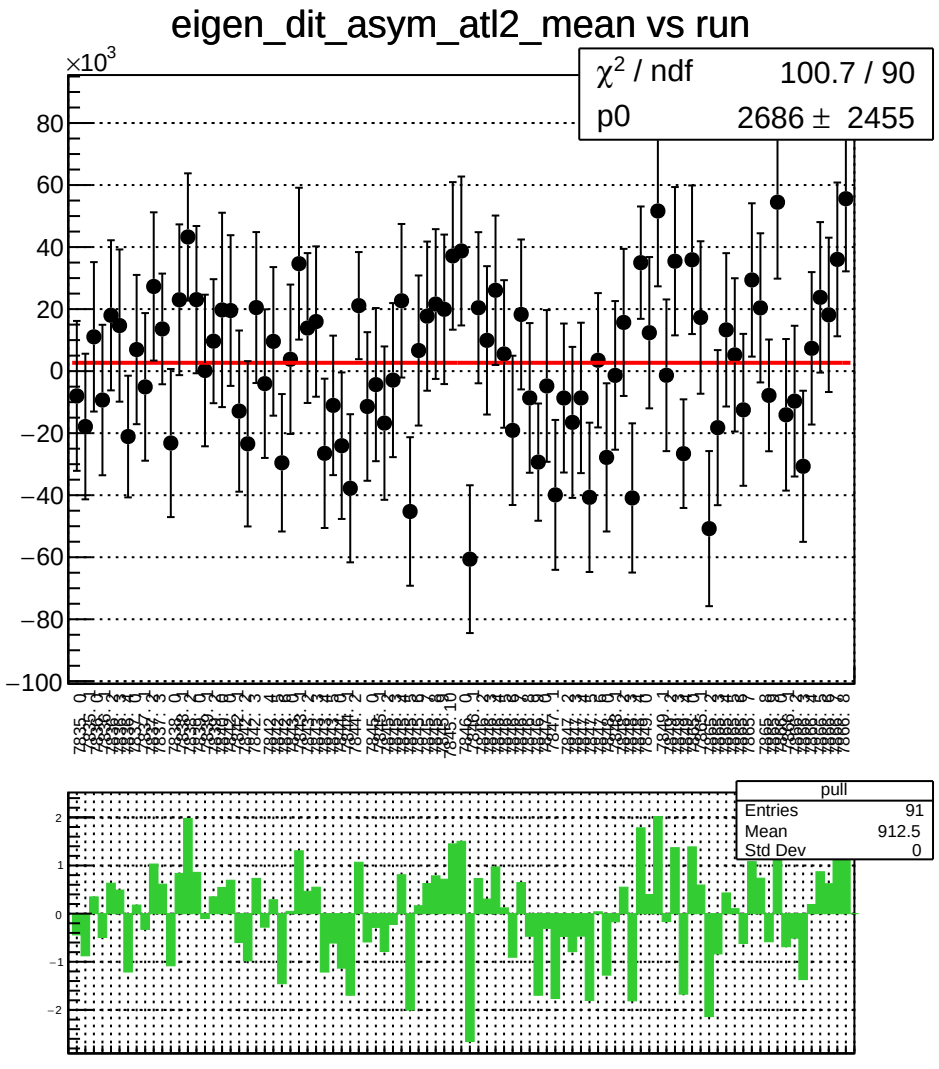

pull1D
Entries 91
Mean 0.001594
Std Dev 1.052

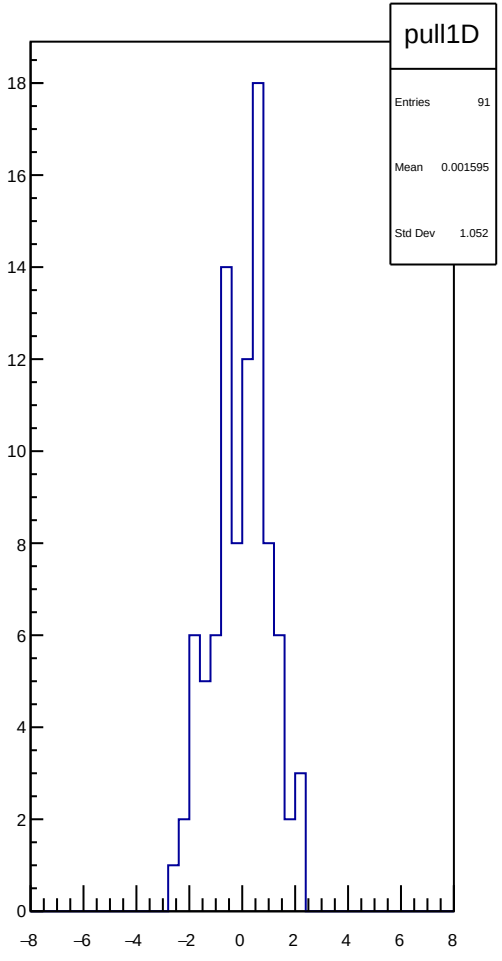

dit_asym_atl2_rms vs run
χ² / ndf 494.7 / 90
p0 2300 ± 1.736
2550
2500
2450
2400
2350
2300
2250
2200

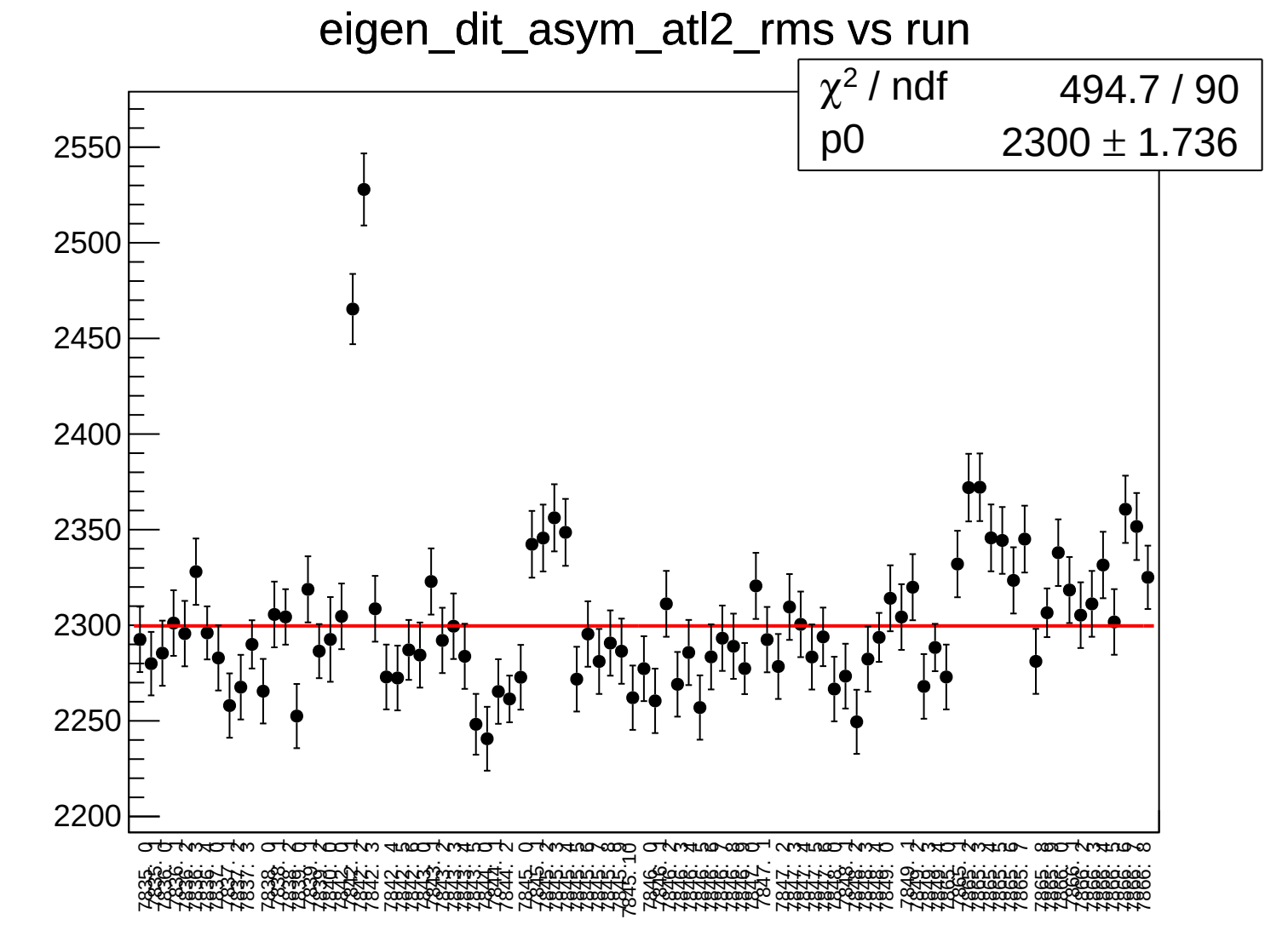

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 108.8 / 90
p0 −2.347e+04 ± 1.188e+04
400
200
0
−200
−400
pull
Entries 91
Mean −178.9
Std Dev 0
2
1
0
−1
−2

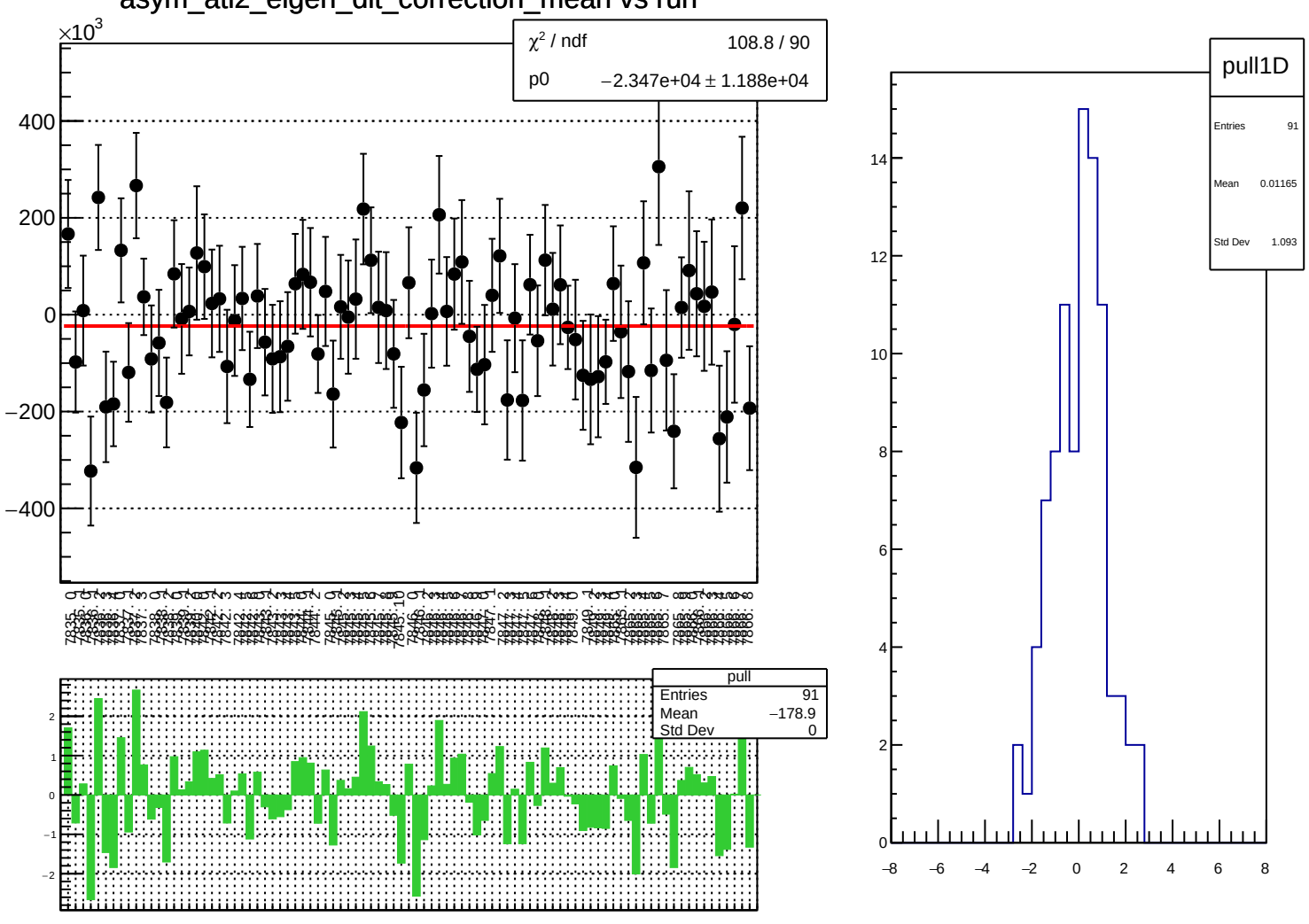

pull1D
Entries 91
Mean 0.01165
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

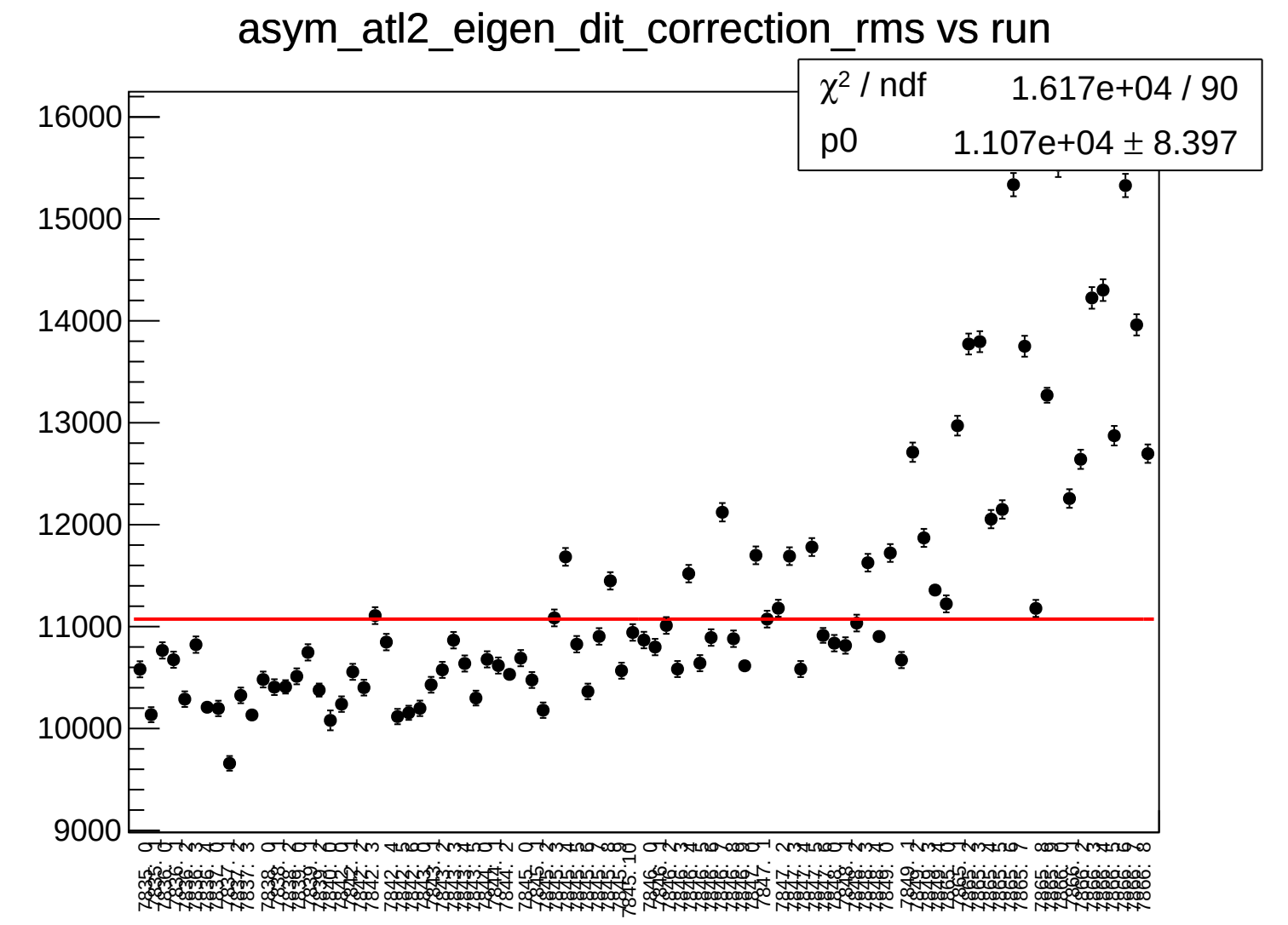

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.617e+04 / 90
p0 1.107e+04 ± 8.397
16000
15000
14000
13000
12000
11000
10000
9000

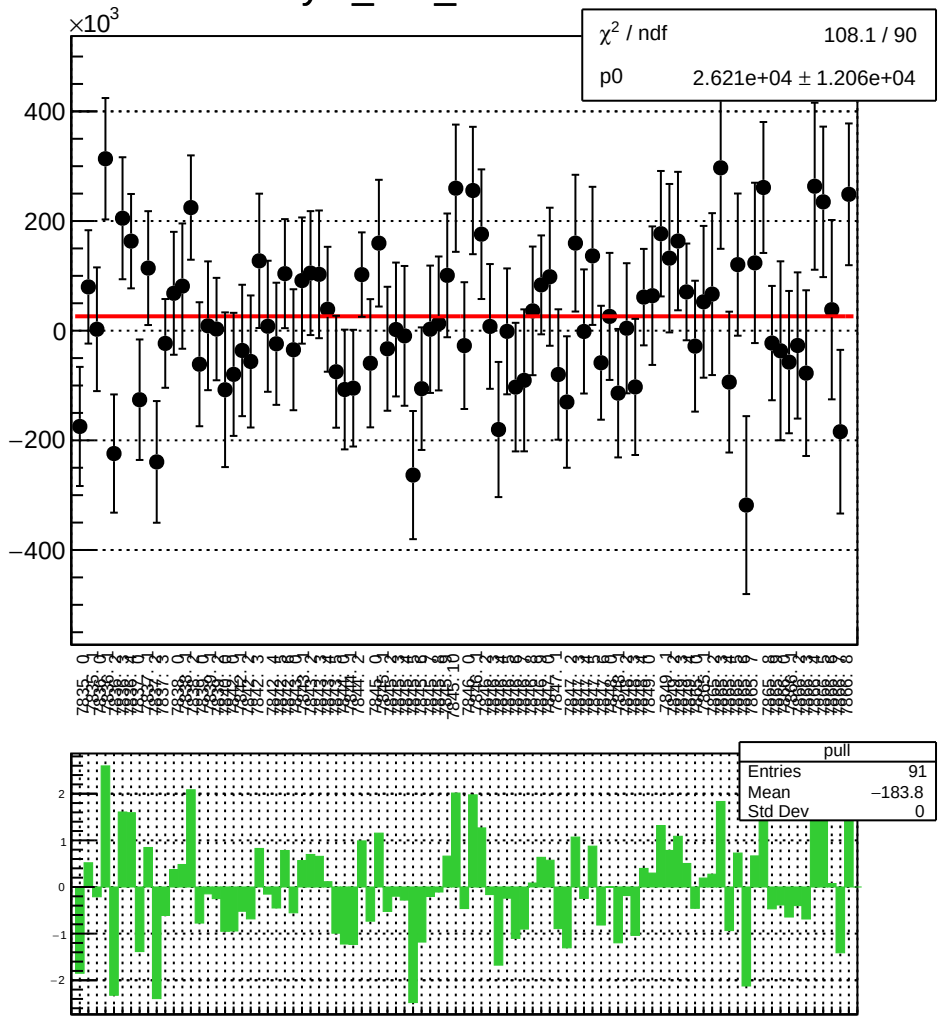

eigen_dit_asym_atl2_mean vs run
χ² / ndf 100.7 / 90
p0 2686 ± 2455
×10³
pull
Entries 91
Mean 912.5
Std Dev 0

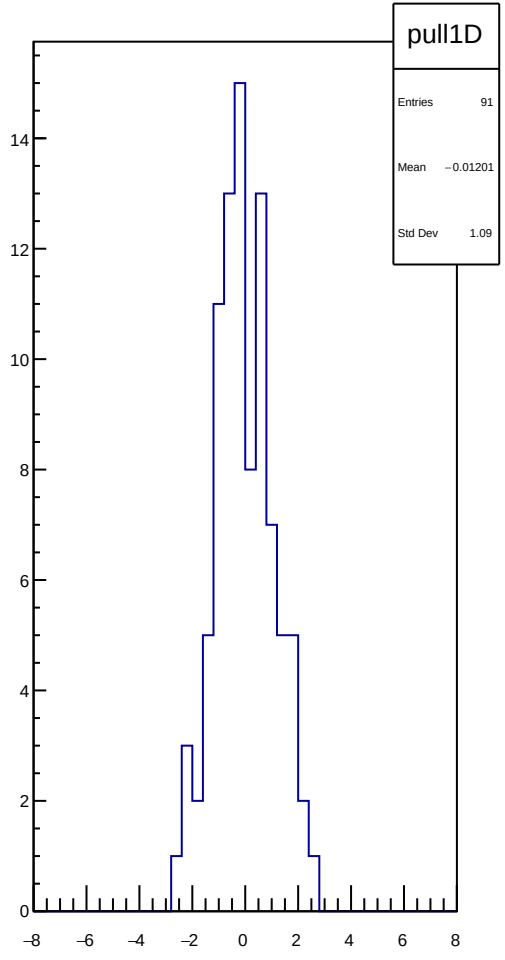

pull1D
Entries 91
Mean 0.001595
Std Dev 1.052

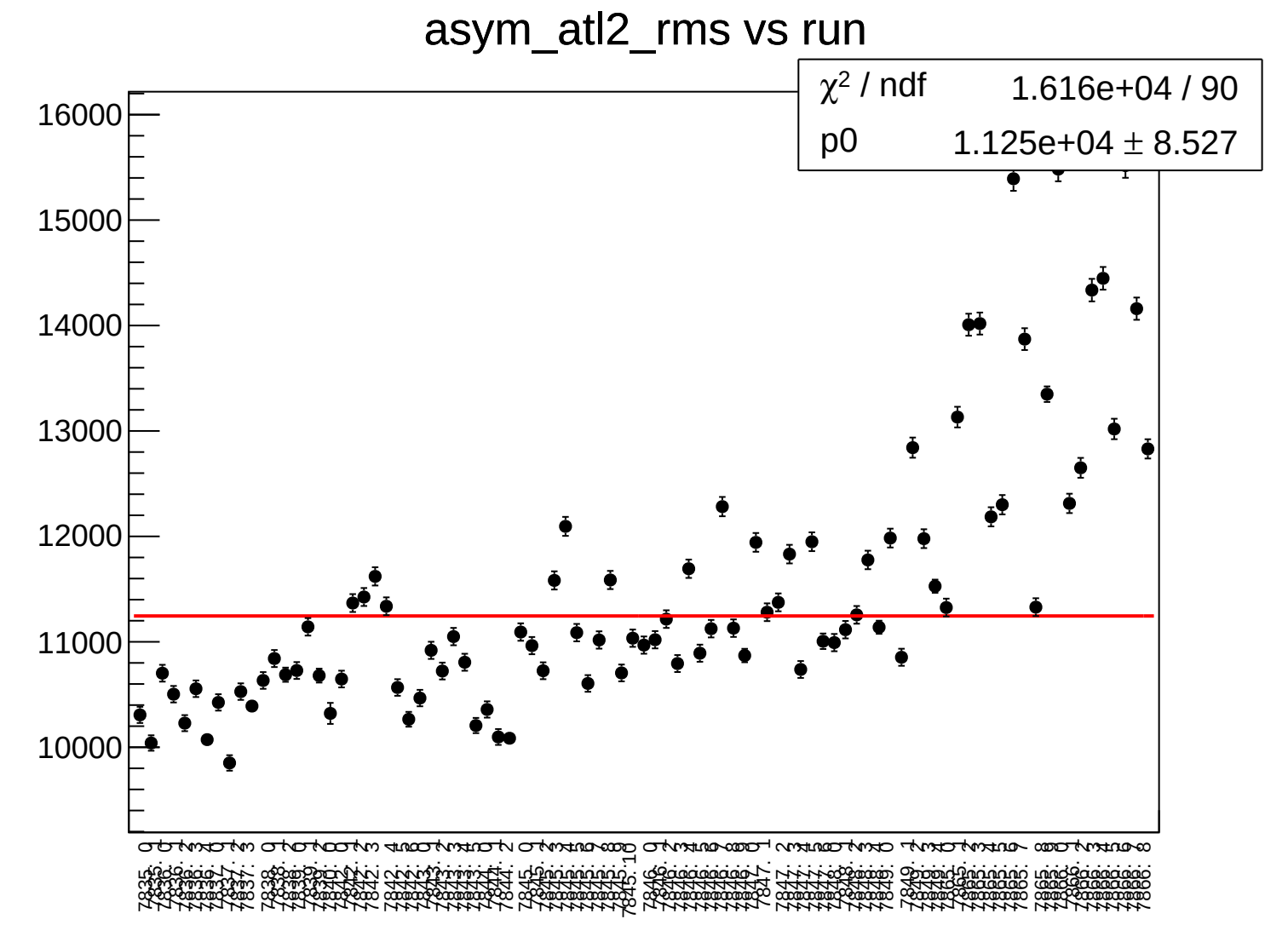

eigen_dit_asym_atl2_rms vs run
χ² / ndf 494.7 / 90
p0 2300 ± 1.736
2550
2500
2450
2400
2350
2300
2250
2200

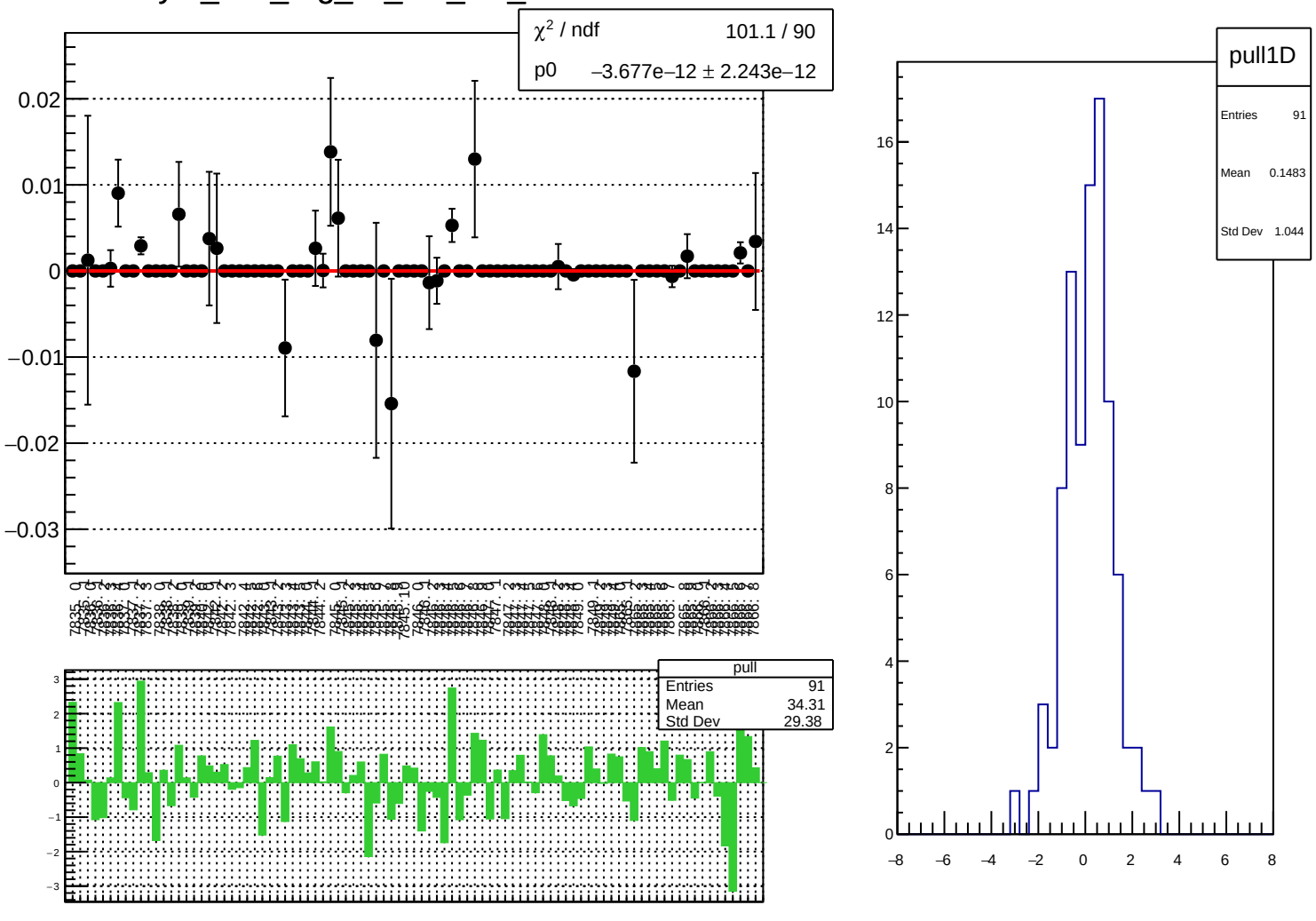

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.8 / 90
p0 −2.347e+04 ± 1.188e+04
400
200
0
−200
−400
pull
Entries 91
Mean −178.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01165
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

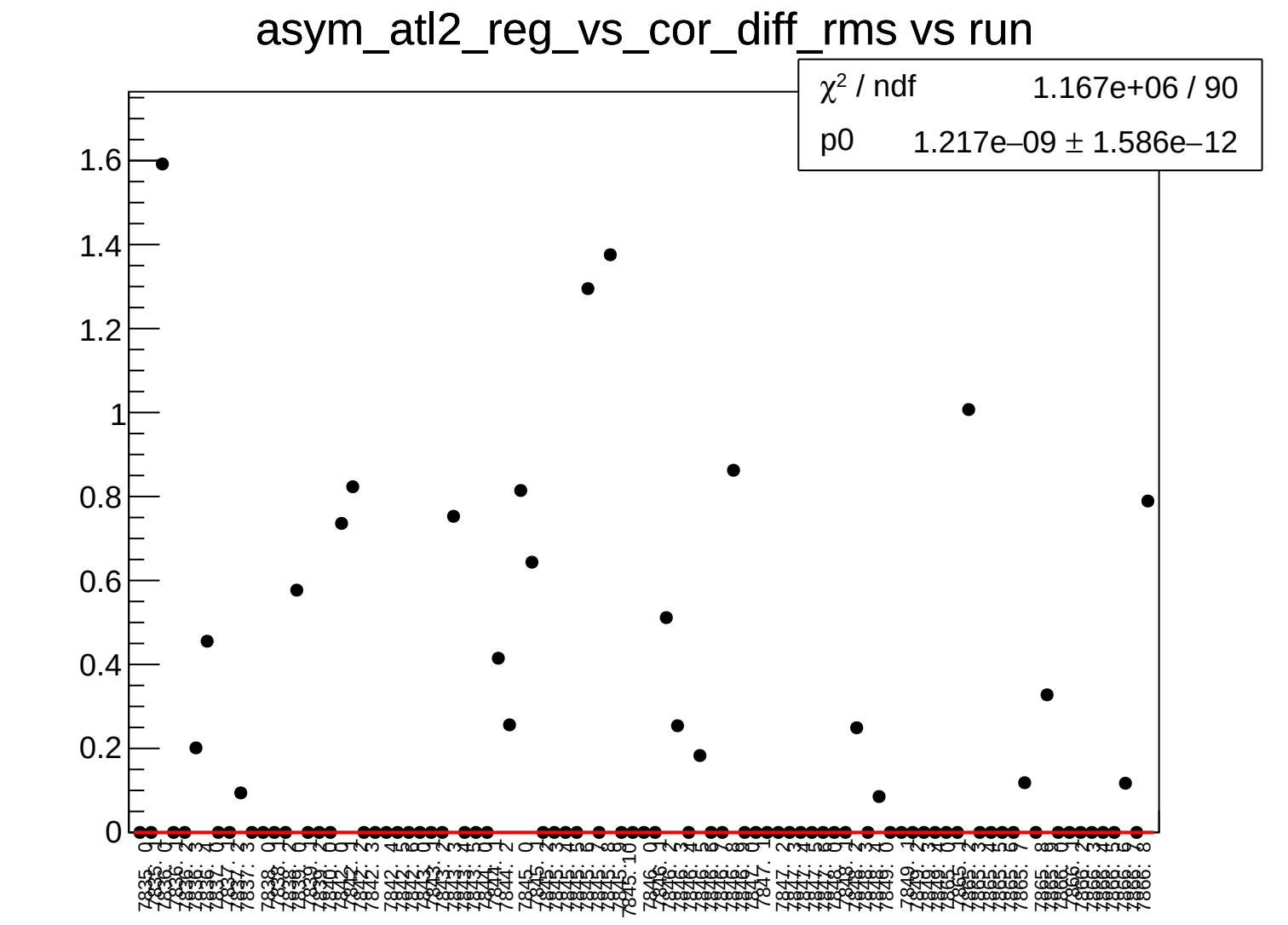

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.617e+04 / 90
p0 1.107e+04 ± 8.397
16000
15000
14000
13000
12000
11000
10000
9000

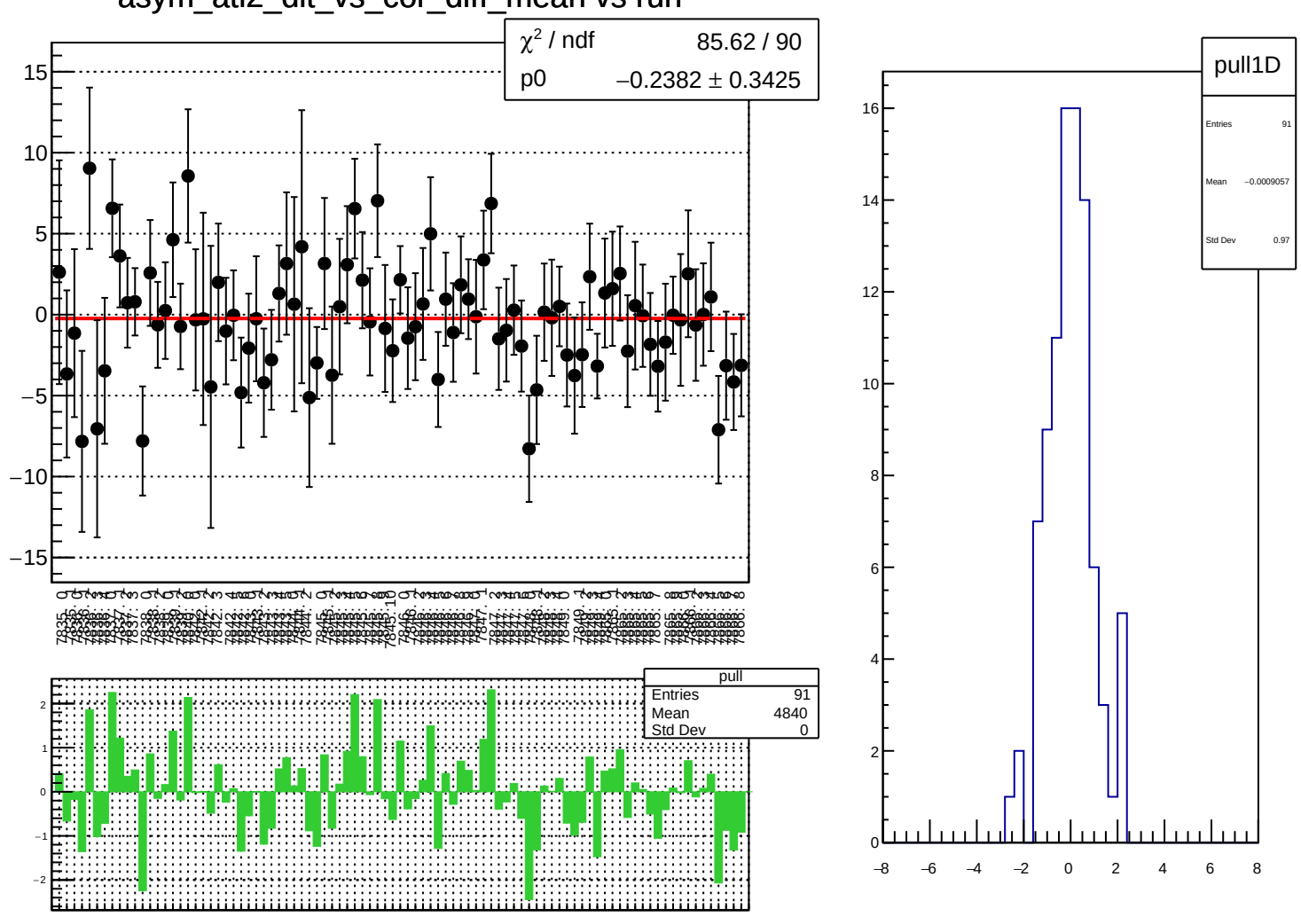

asym_atl2_mean vs run
×10^3
χ² / ndf 108.1 / 90
p0 2.621e+04 ± 1.206e+04
400
200
0
−200
−400
pull
Entries 91
Mean −183.8
Std Dev 0
2
1
0
−1
−2

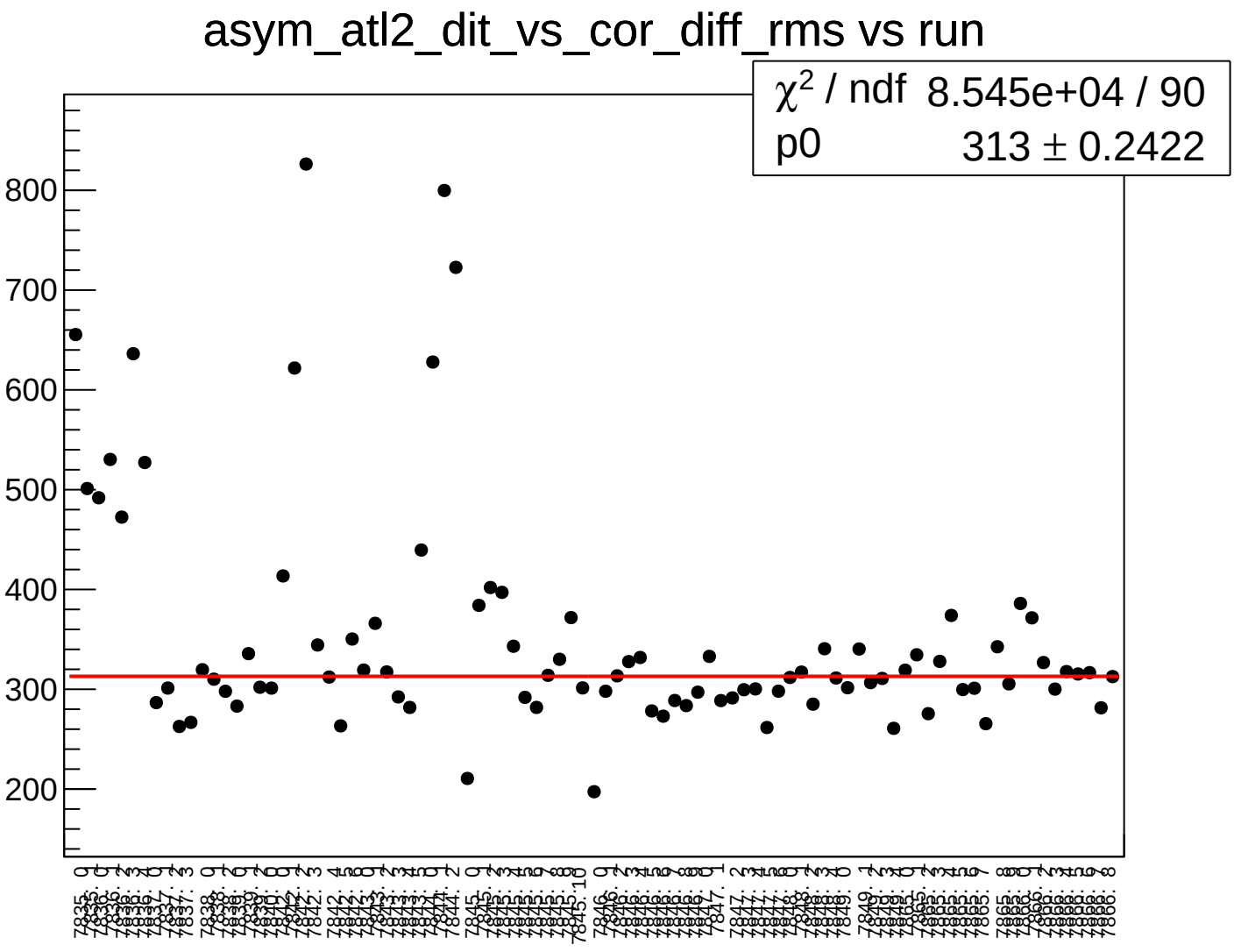

pull1D
Entries 91
Mean −0.01201
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

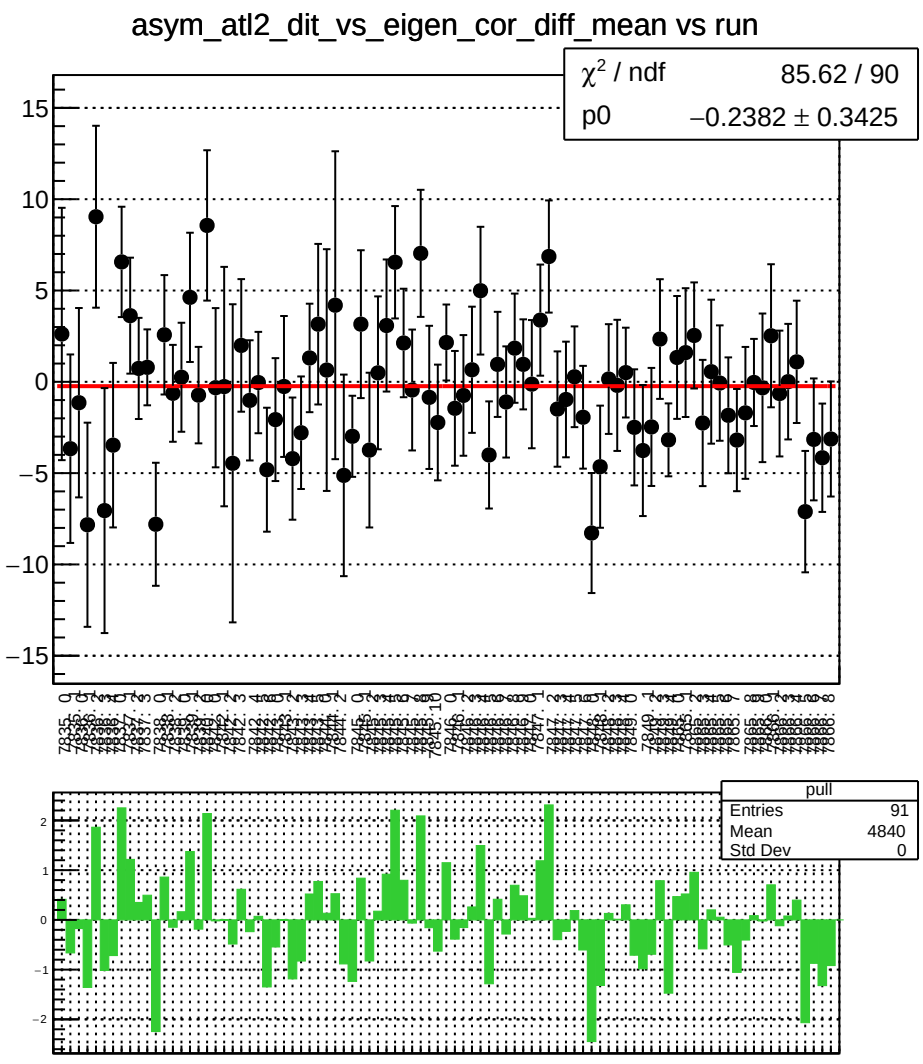

asym_atl2_rms vs run
χ² / ndf 1.616e+04 / 90
p0 1.125e+04 ± 8.527
16000
15000
14000
13000
12000
11000
10000

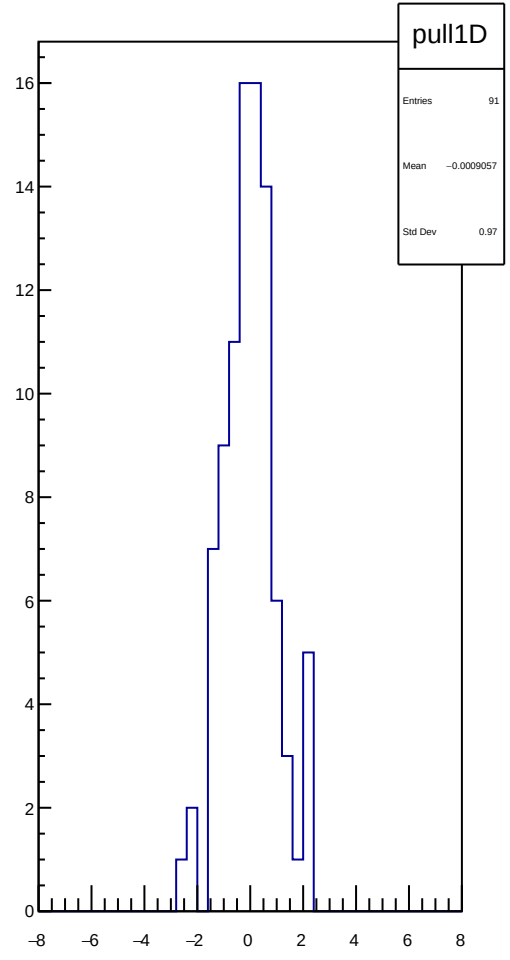

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 90
p0 −3.677e−12 ± 2.243e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 34.31
Std Dev 29.38
pull1D
Entries 91
Mean 0.1483
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

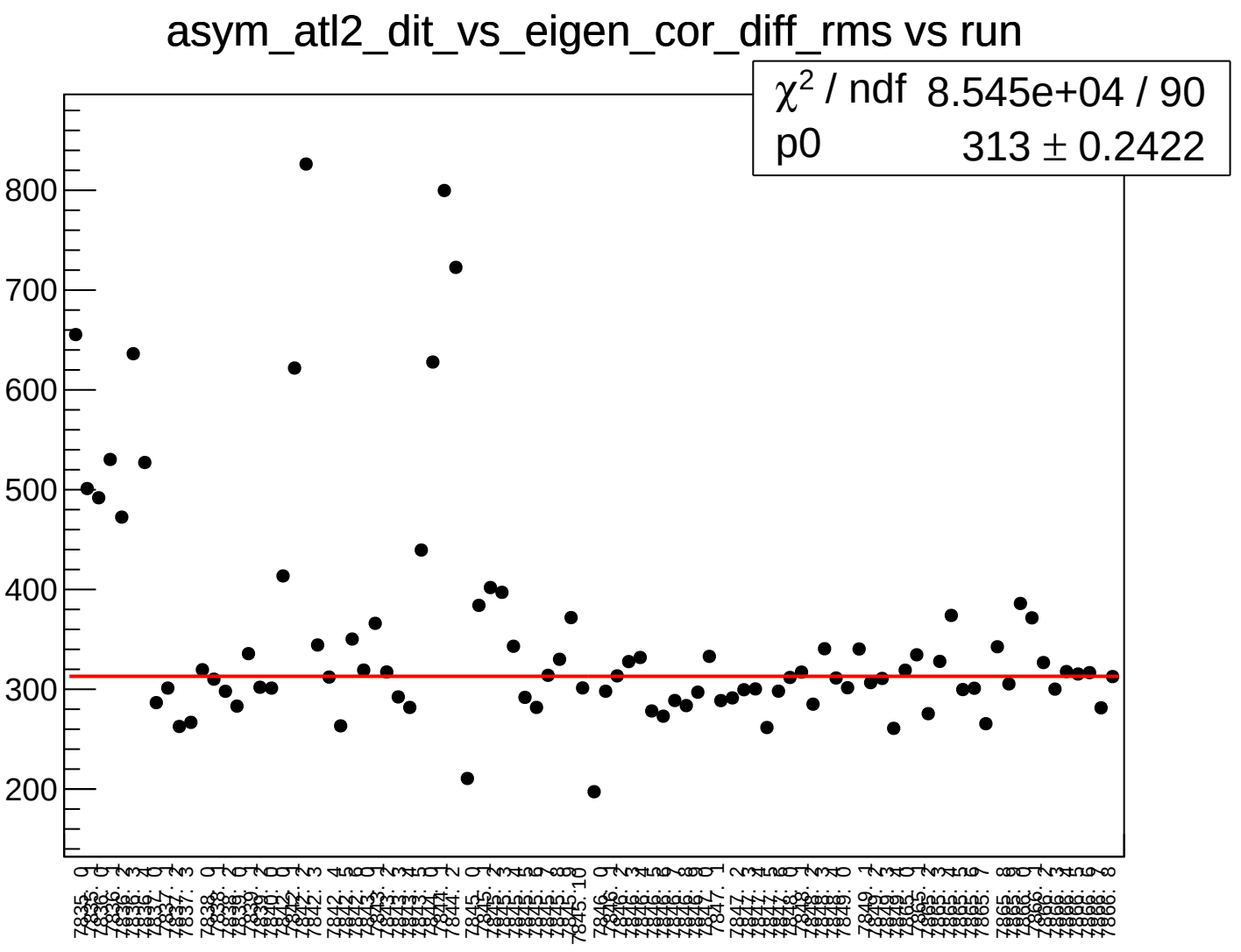

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 90
p0 1.217e−09 ± 1.586e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

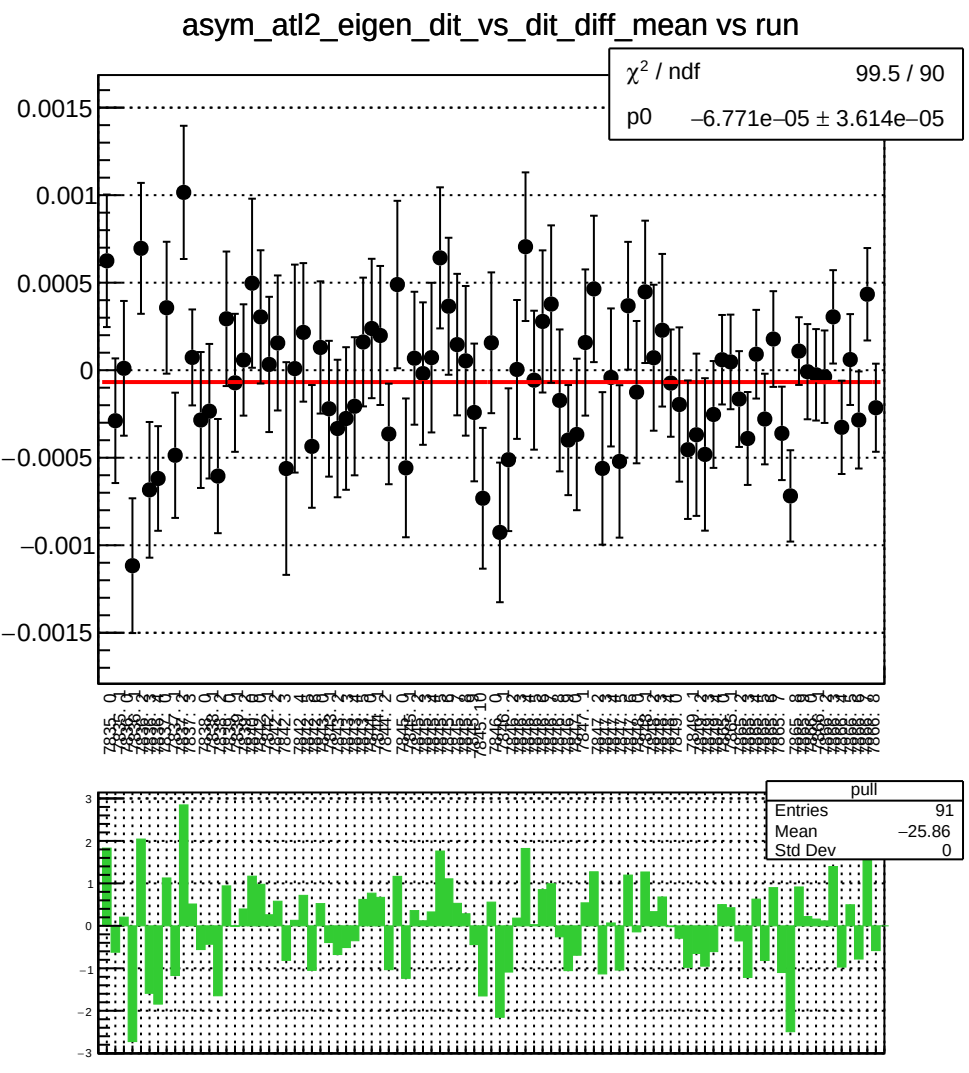

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 85.62 / 90
p0 −0.2382 ± 0.3425
pull
Entries 91
Mean 4840
Std Dev 0
pull1D
Entries 91
Mean −0.0009057
Std Dev 0.97

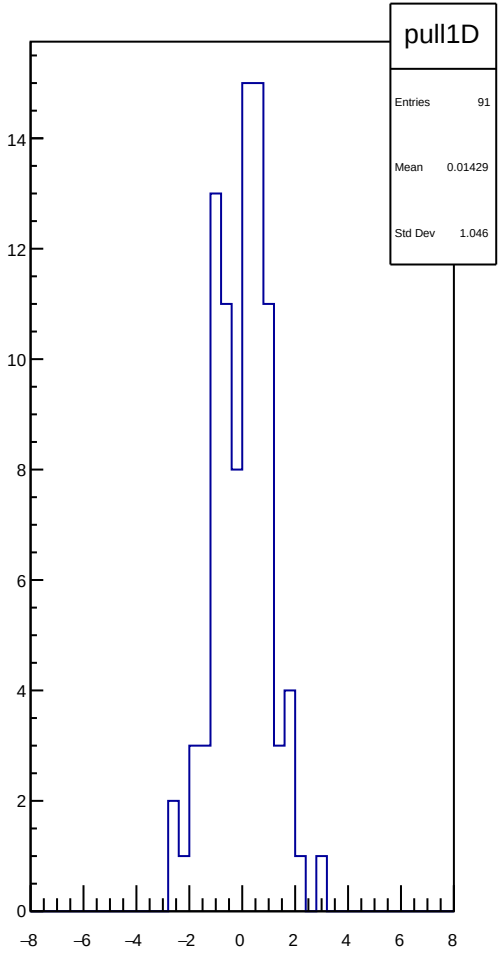

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 8.545e+04 / 90
p0 313 ± 0.2422
800
700
600
500
400
300
200

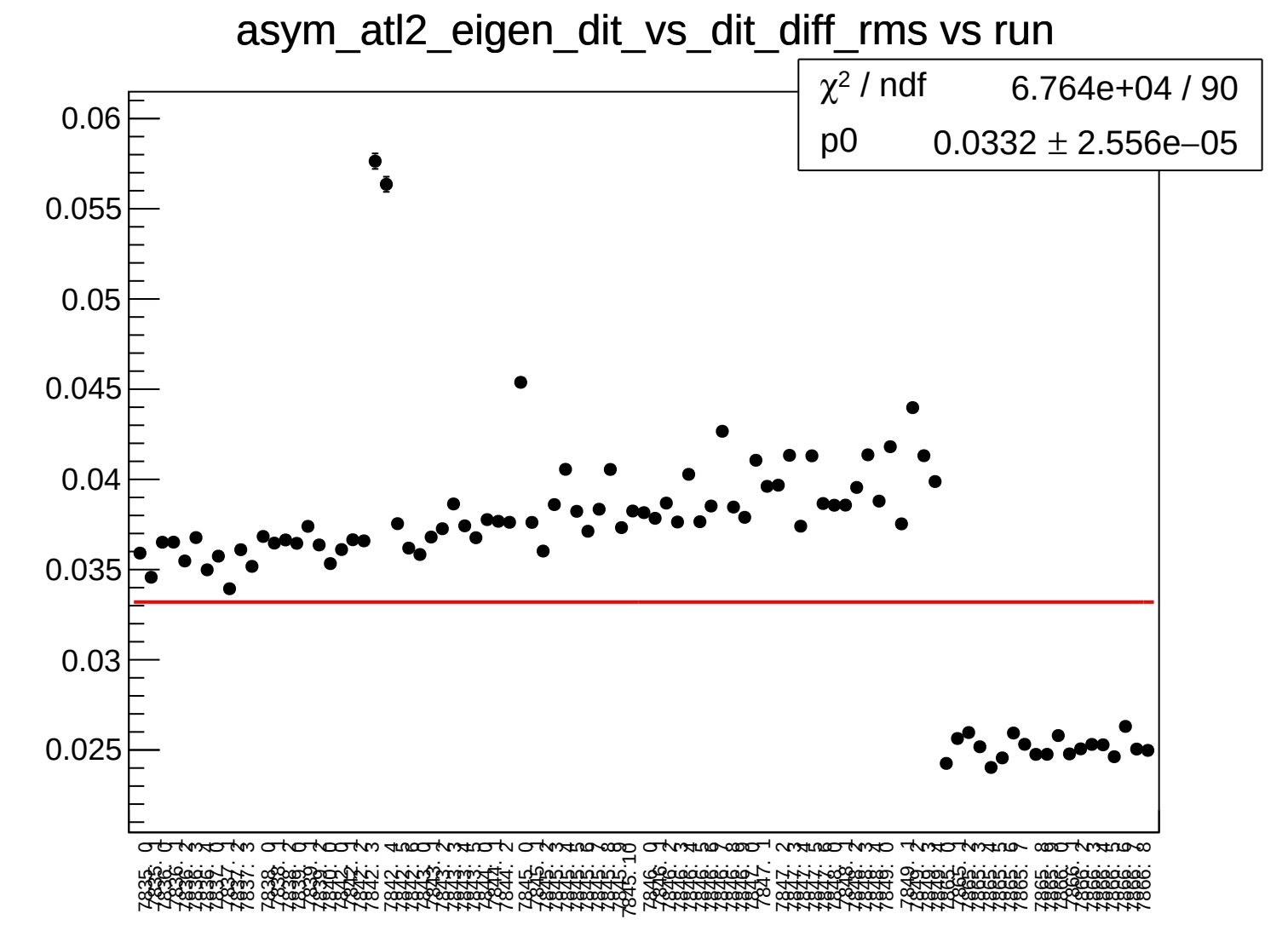

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.62 / 90
p0 −0.2382 ± 0.3425
pull
Entries 91
Mean 4840
Std Dev 0

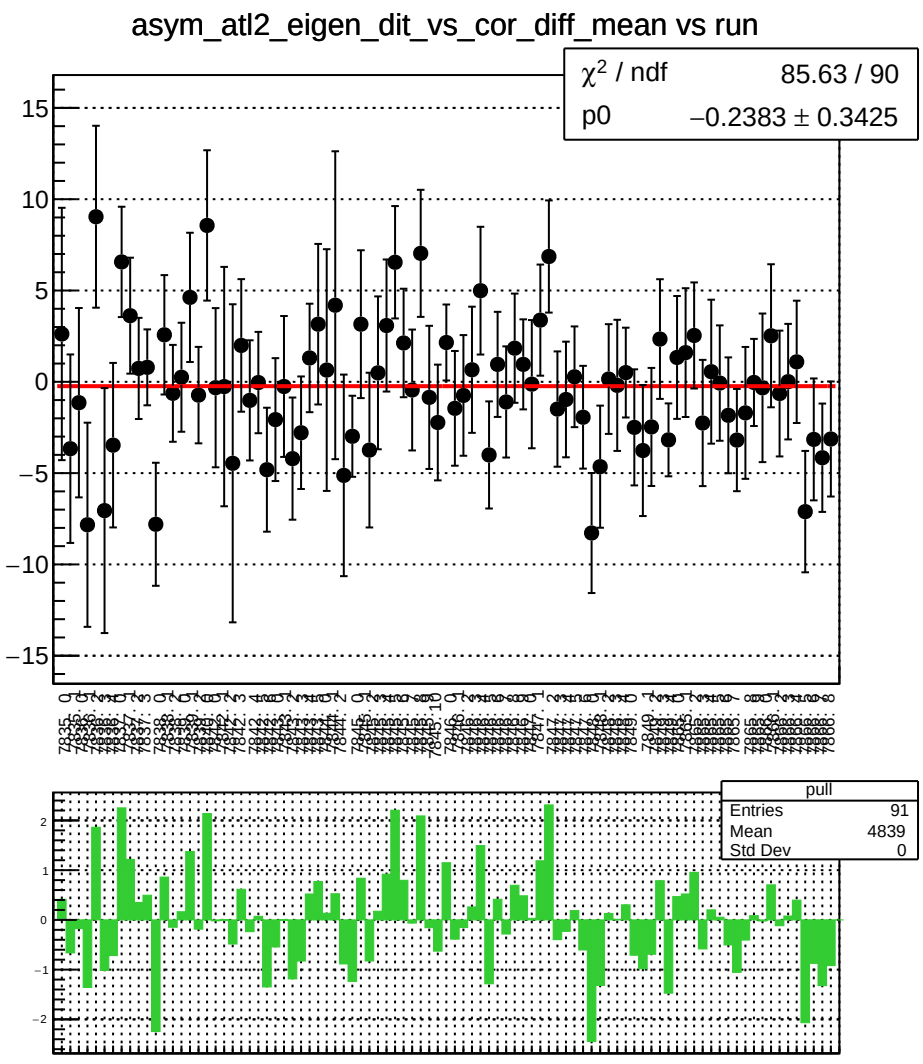

pull1D
Entries 91
Mean −0.0009057
Std Dev 0.97

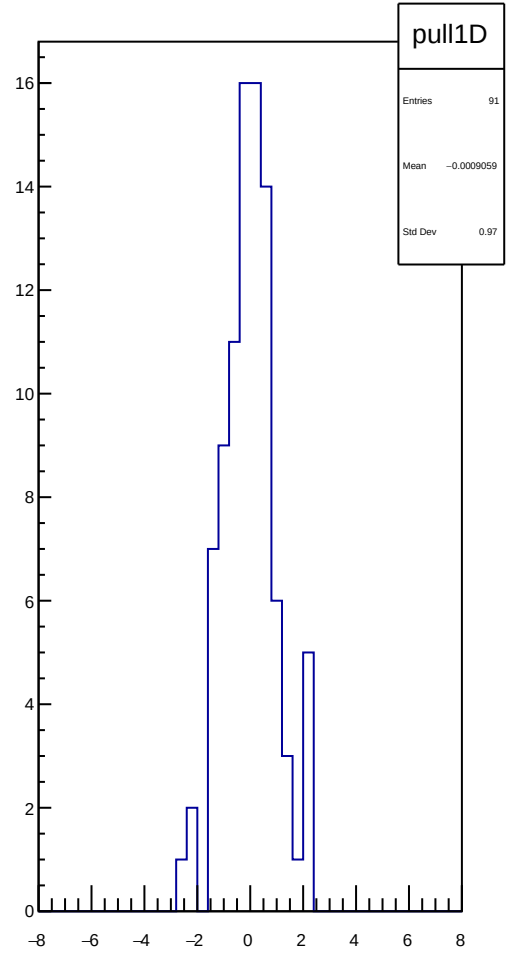

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.545e+04 / 90
p0 313 ± 0.2422
800
700
600
500
400
300
200

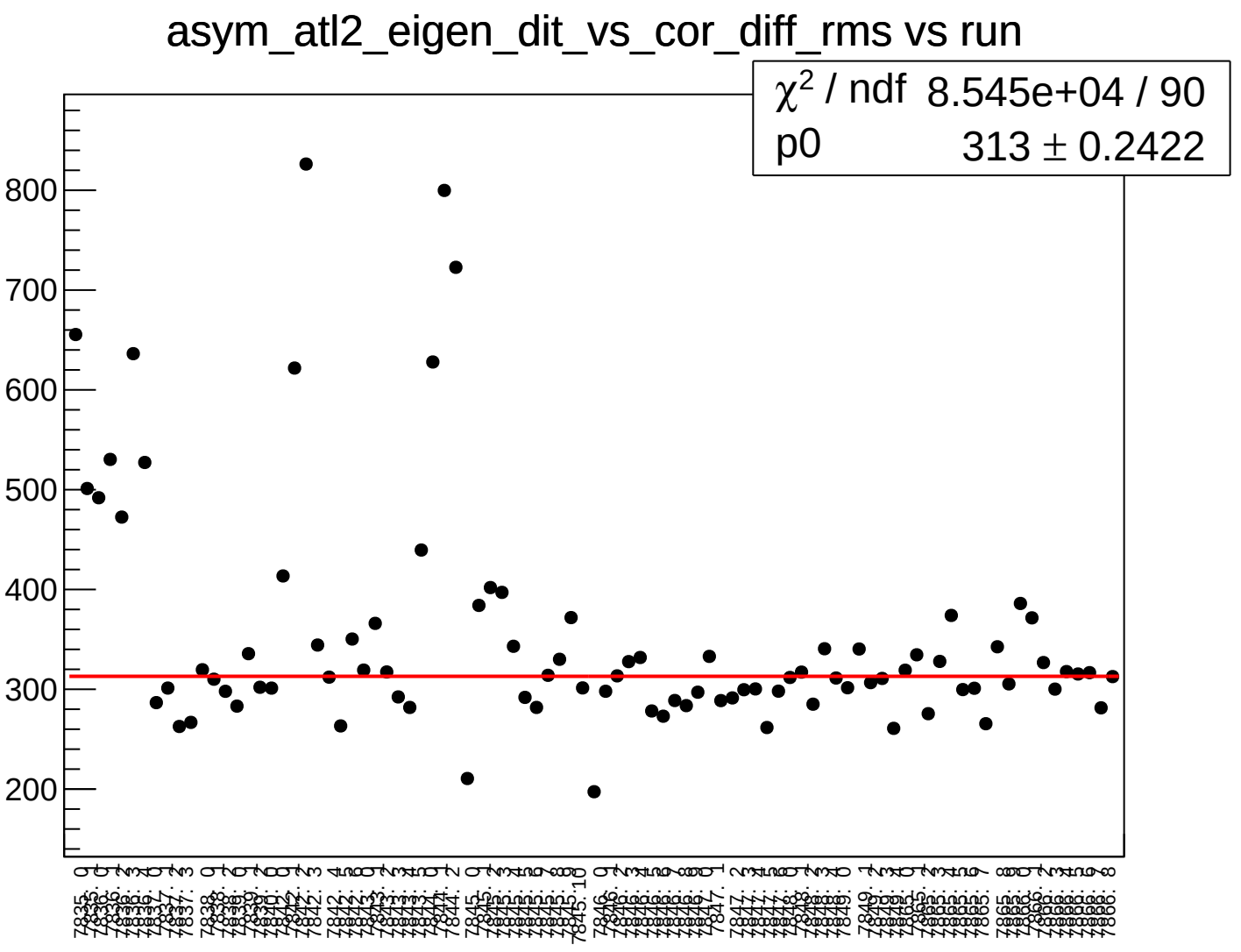

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.5 / 90
p0 −6.771e−05 ± 3.614e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean −25.86
Std Dev 0
3
2
1
0
−1
−2
−3

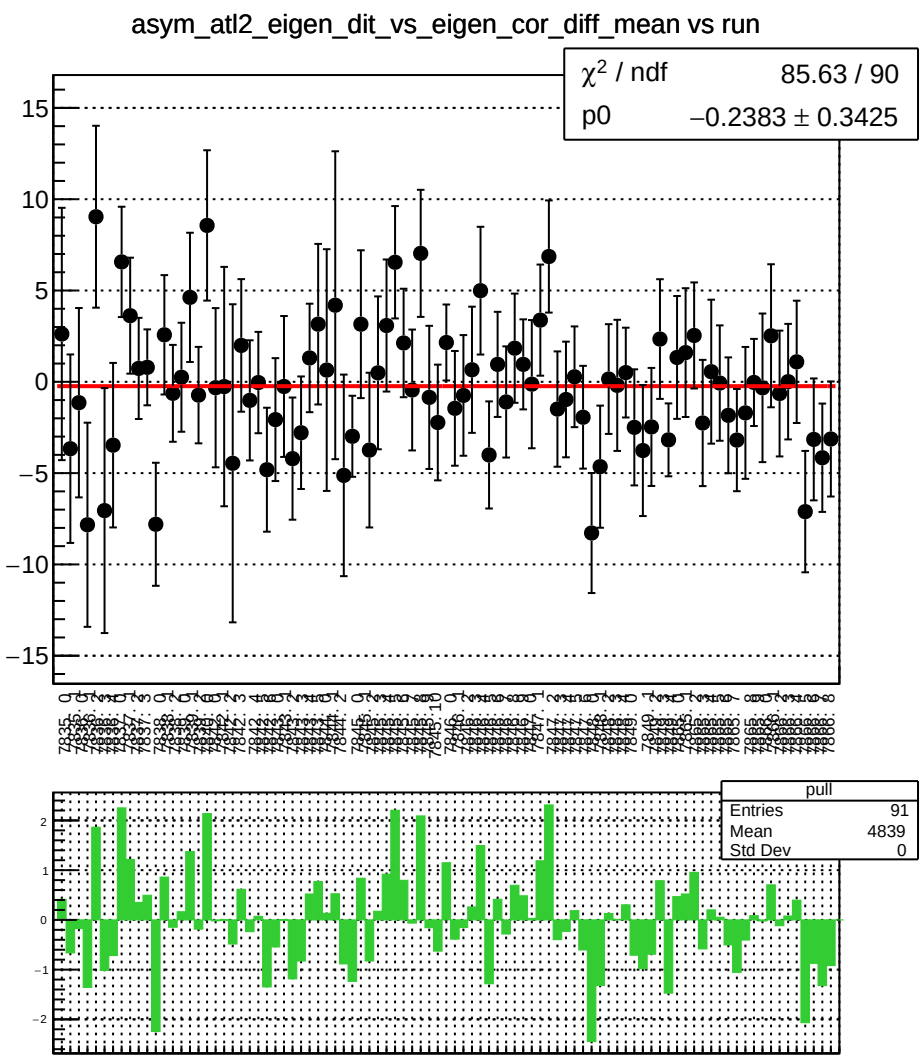

pull1D
Entries 91
Mean 0.01429
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

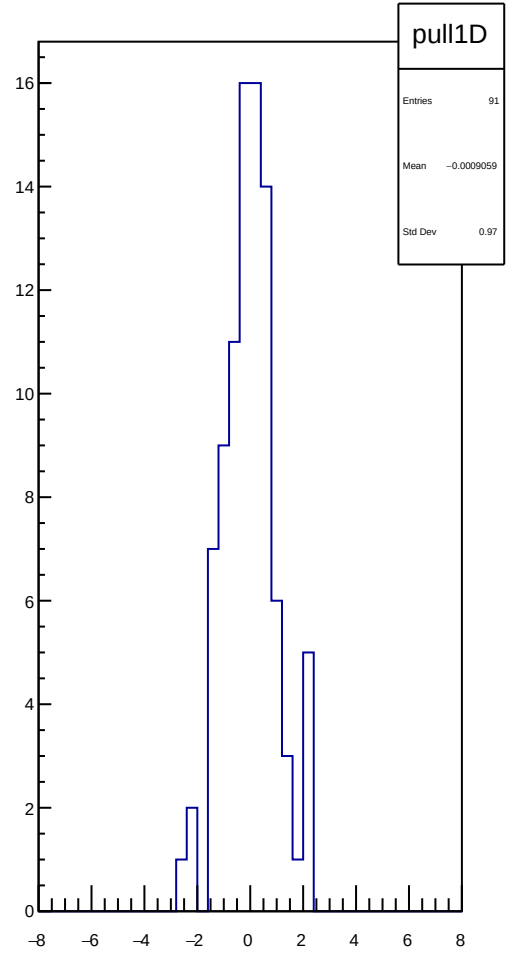

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.764e+04 / 90
p0 0.0332 ± 2.556e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025

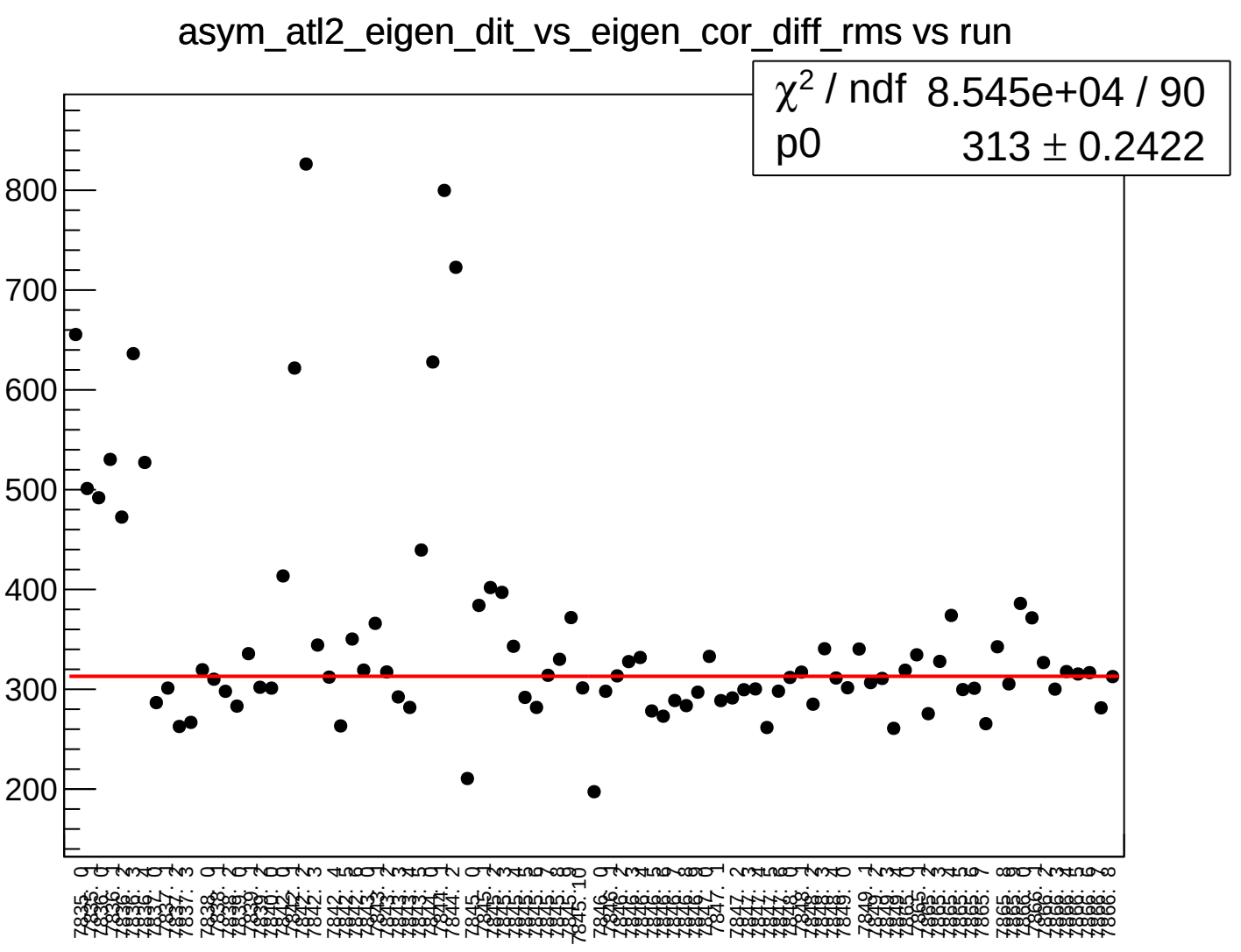

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.63 / 90
p0 −0.2383 ± 0.3425
pull
Entries 91
Mean 4839
Std Dev 0

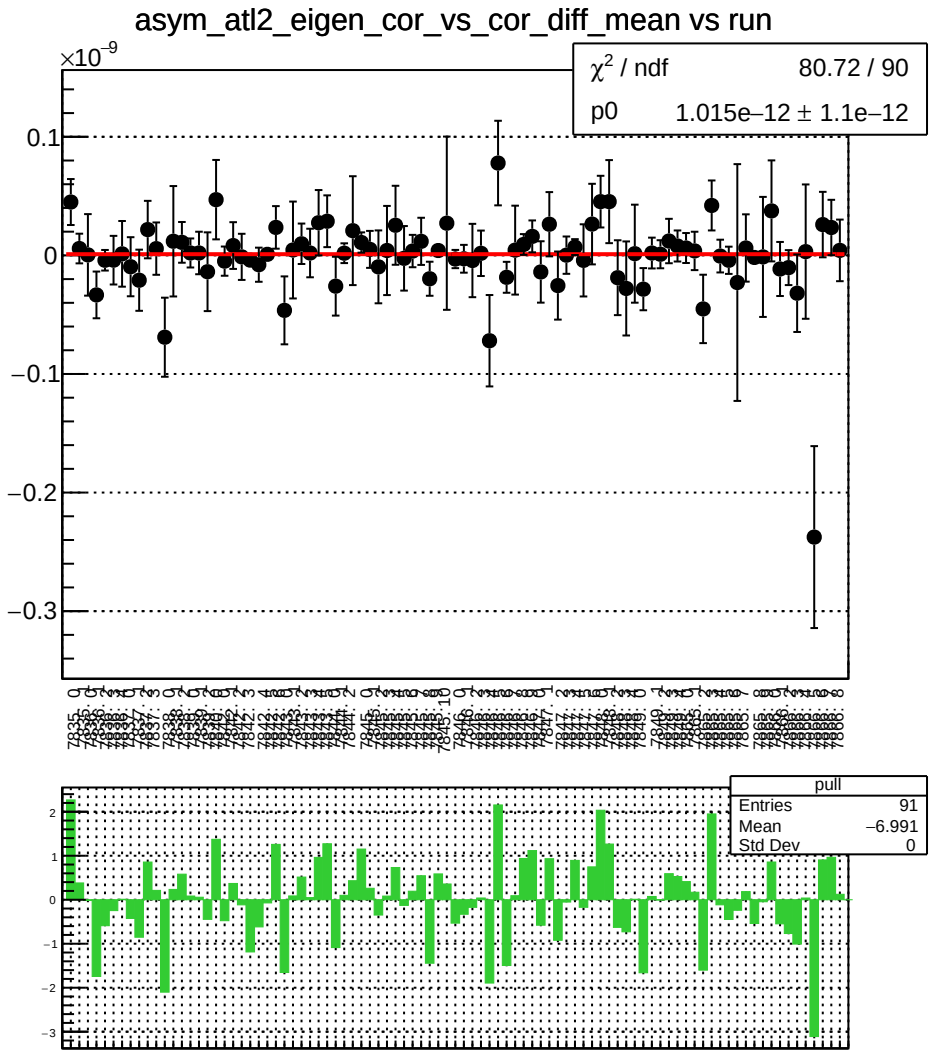

pull1D
Entries 91
Mean −0.0009059
Std Dev 0.97

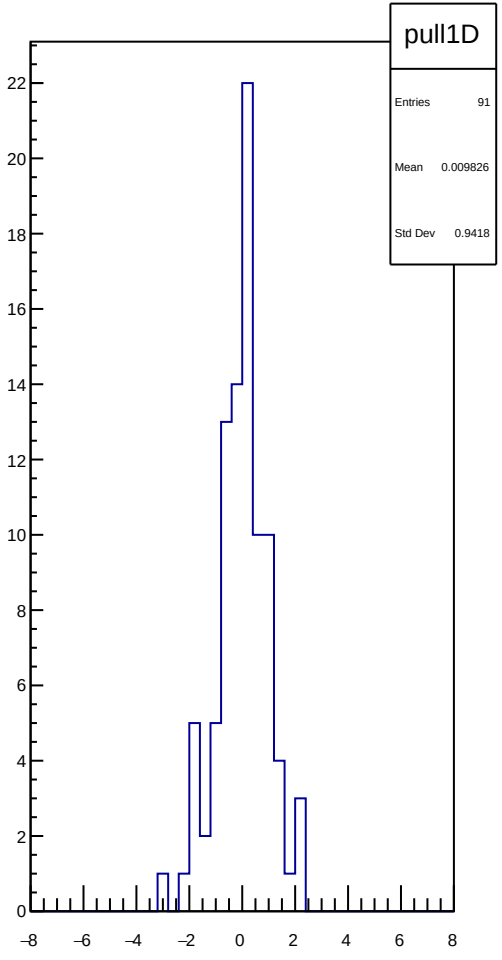

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.545e+04 / 90
p0 313 ± 0.2422
800
700
600
500
400
300
200

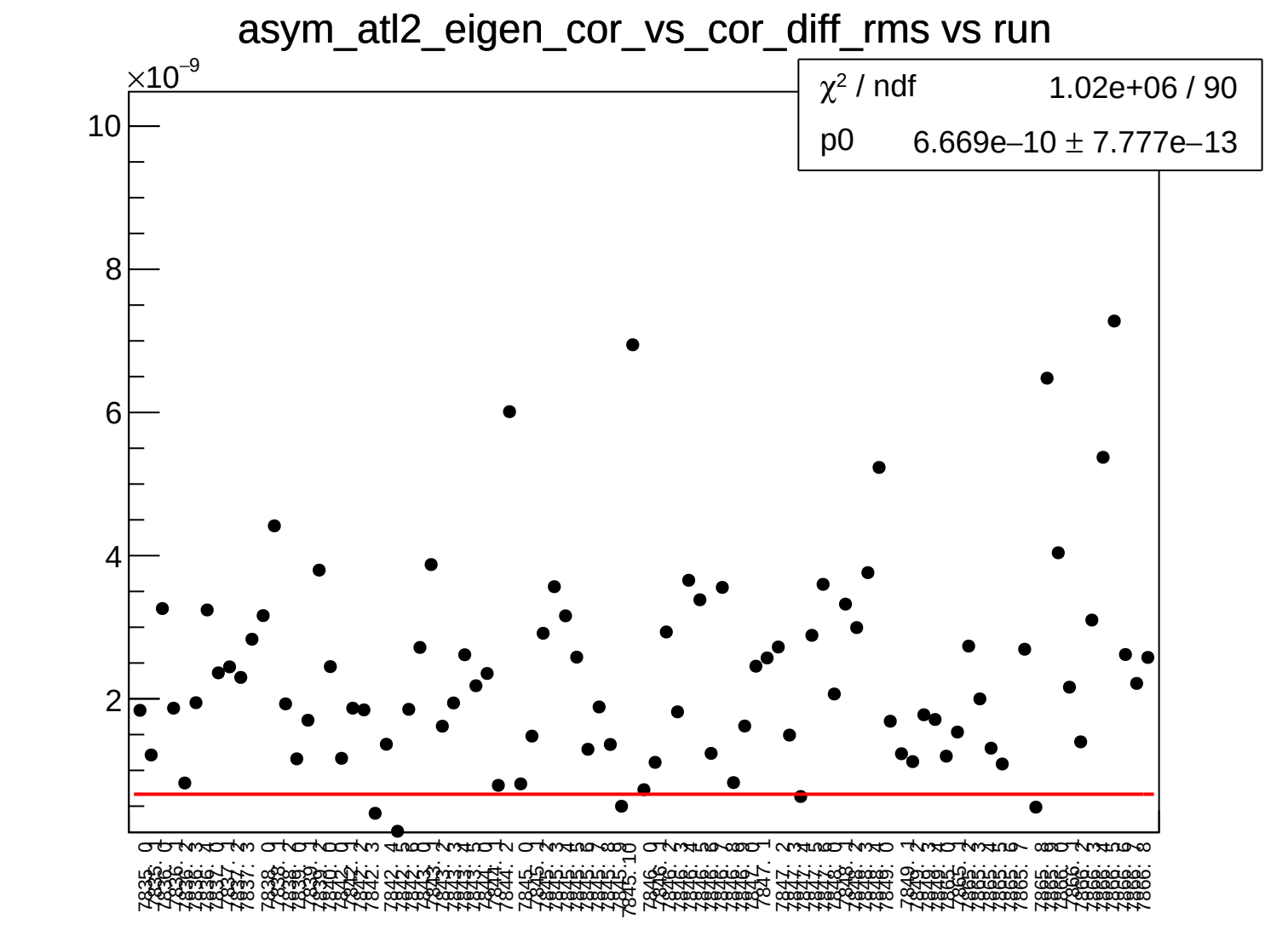

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.63 / 90
p0 −0.2383 ± 0.3425
pull
Entries 91
Mean 4839
Std Dev 0

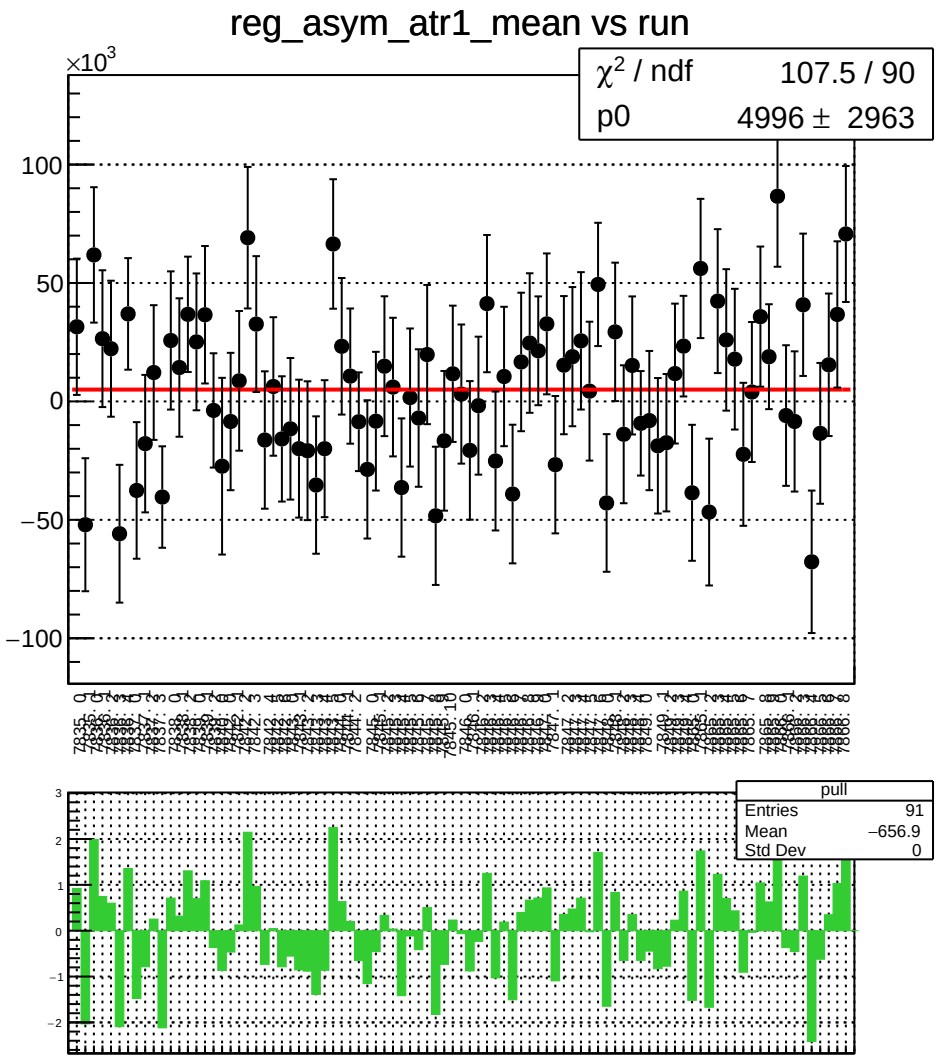

pull1D
Entries 91
Mean −0.0009059
Std Dev 0.97

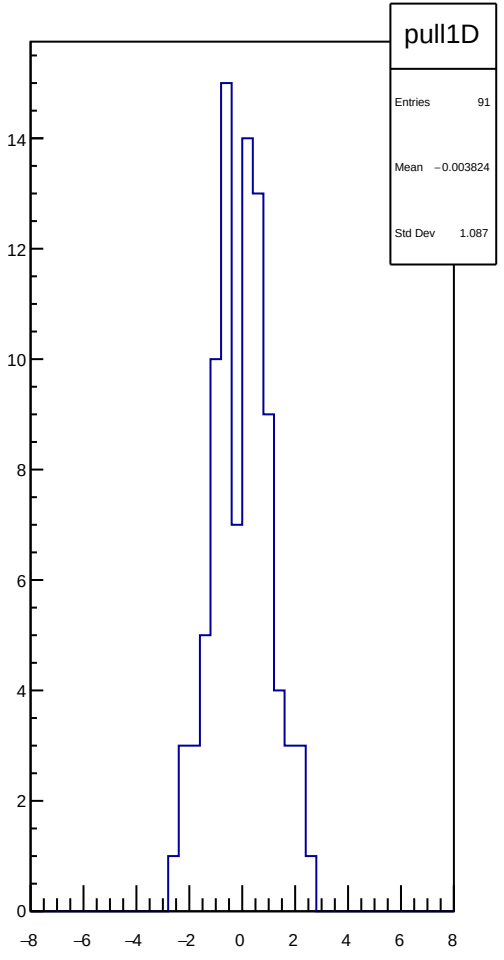

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.545e+04 / 90
p0 313 ± 0.2422
800
700
600
500
400
300
200

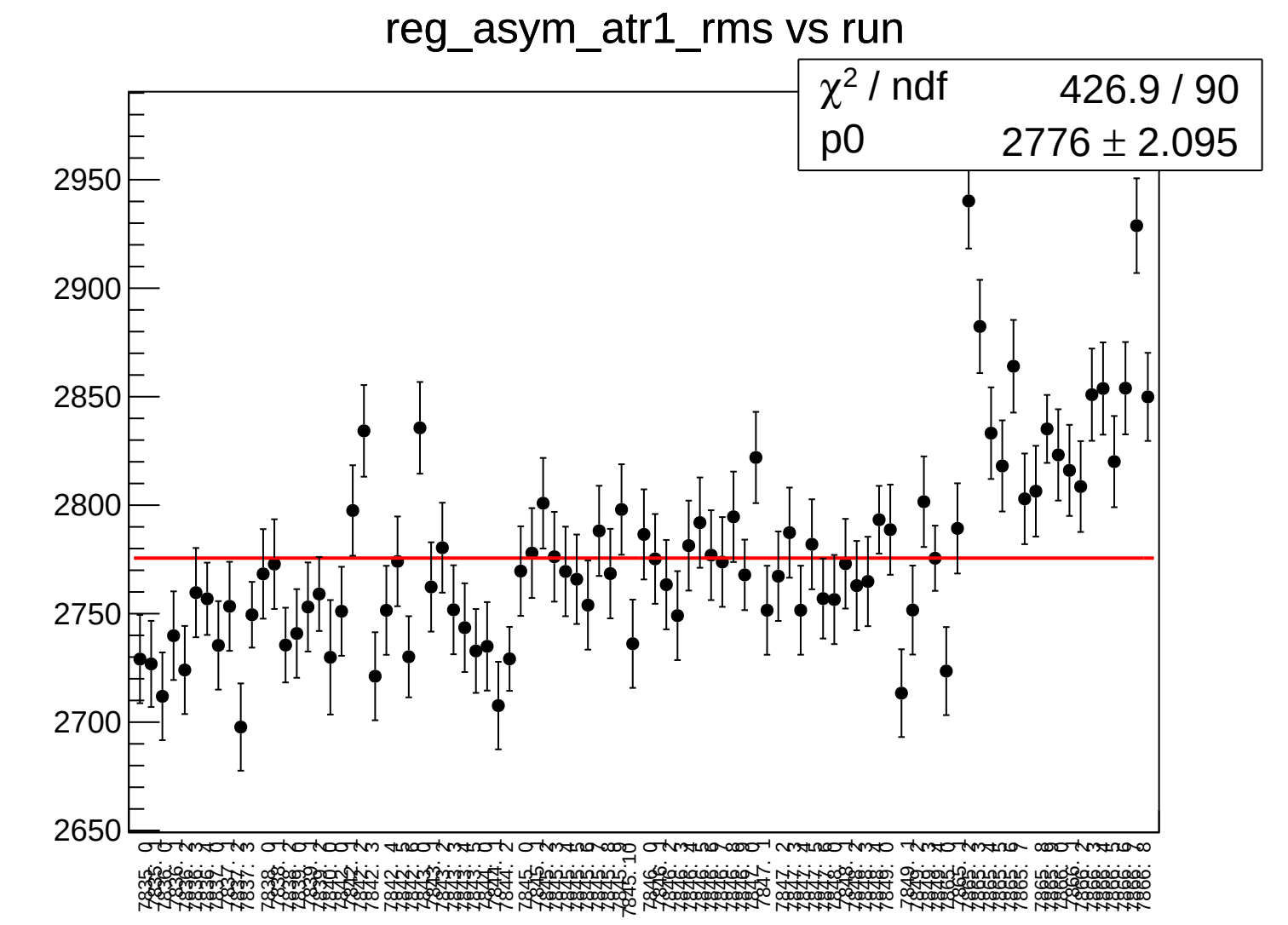

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 80.72 / 90
p0 1.015e−12 ± 1.1e−12
0.1
0
−0.1
−0.2
−0.3
pull
Entries 91
Mean −6.991
Std Dev 0
2
1
0
−1
−2
−3

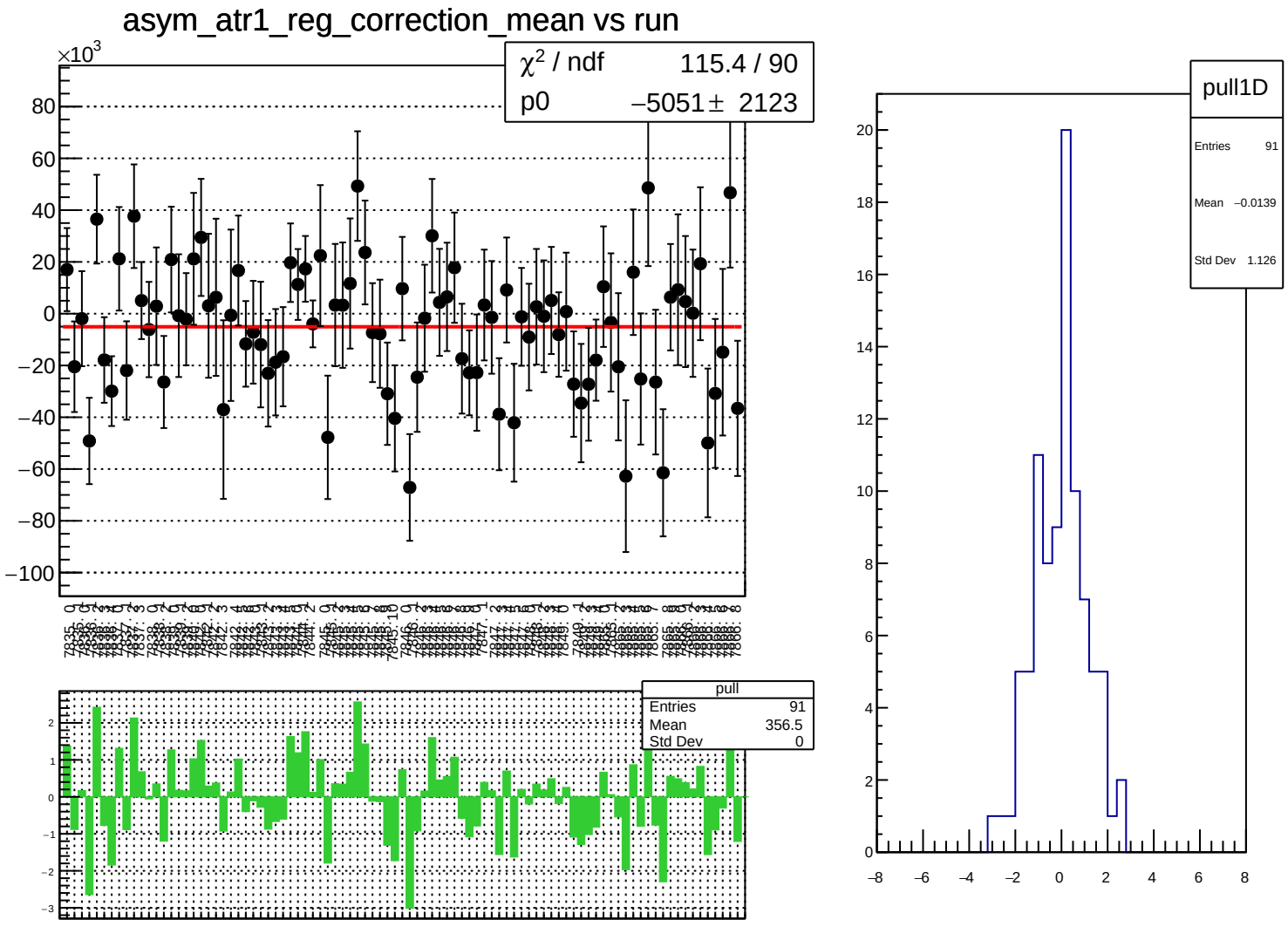

pull1D
Entries 91
Mean 0.009826
Std Dev 0.9418
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

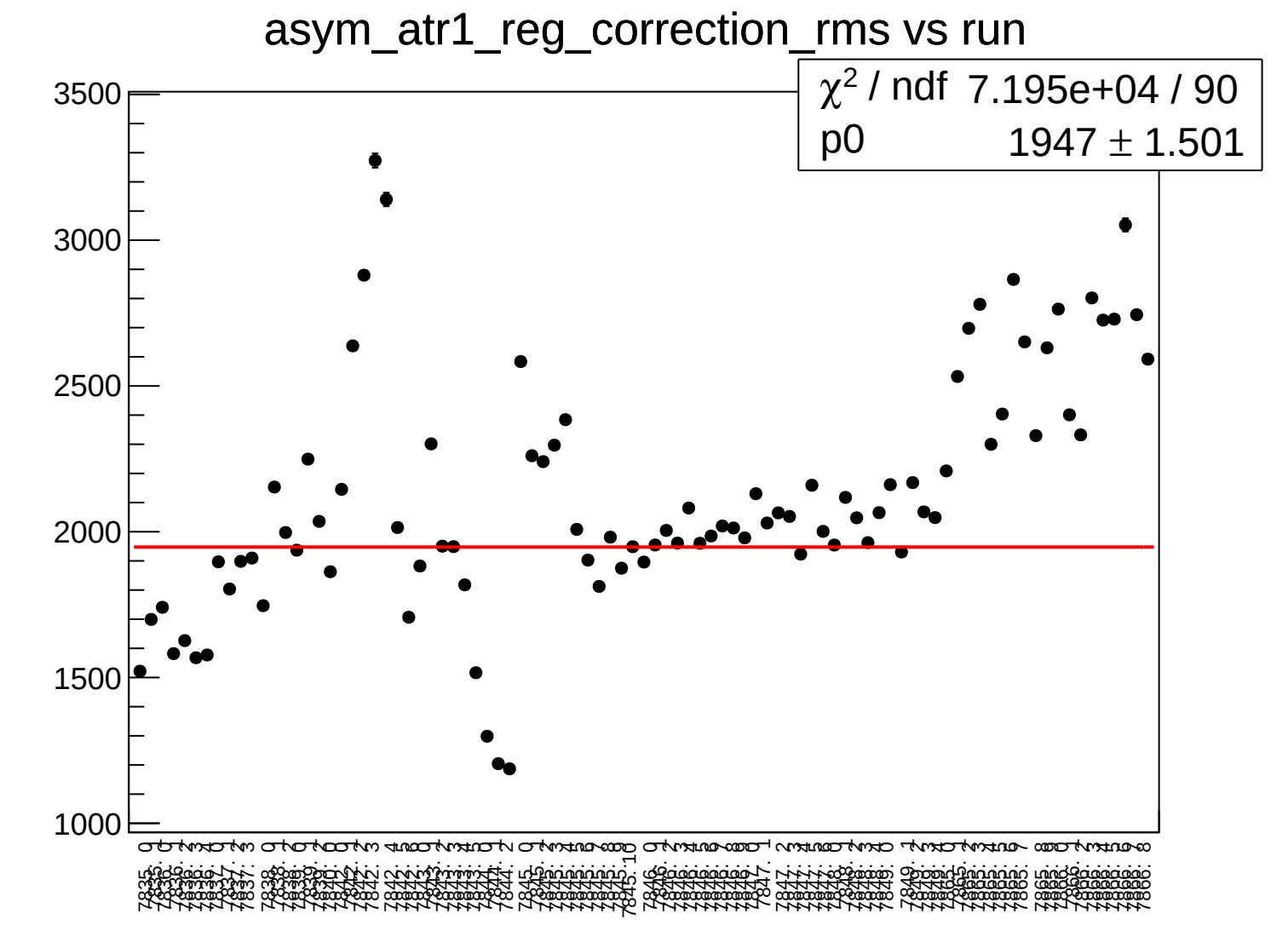

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
10
8
6
4
2
χ² / ndf 1.02e+06 / 90
p0 6.669e−10 ± 7.777e−13

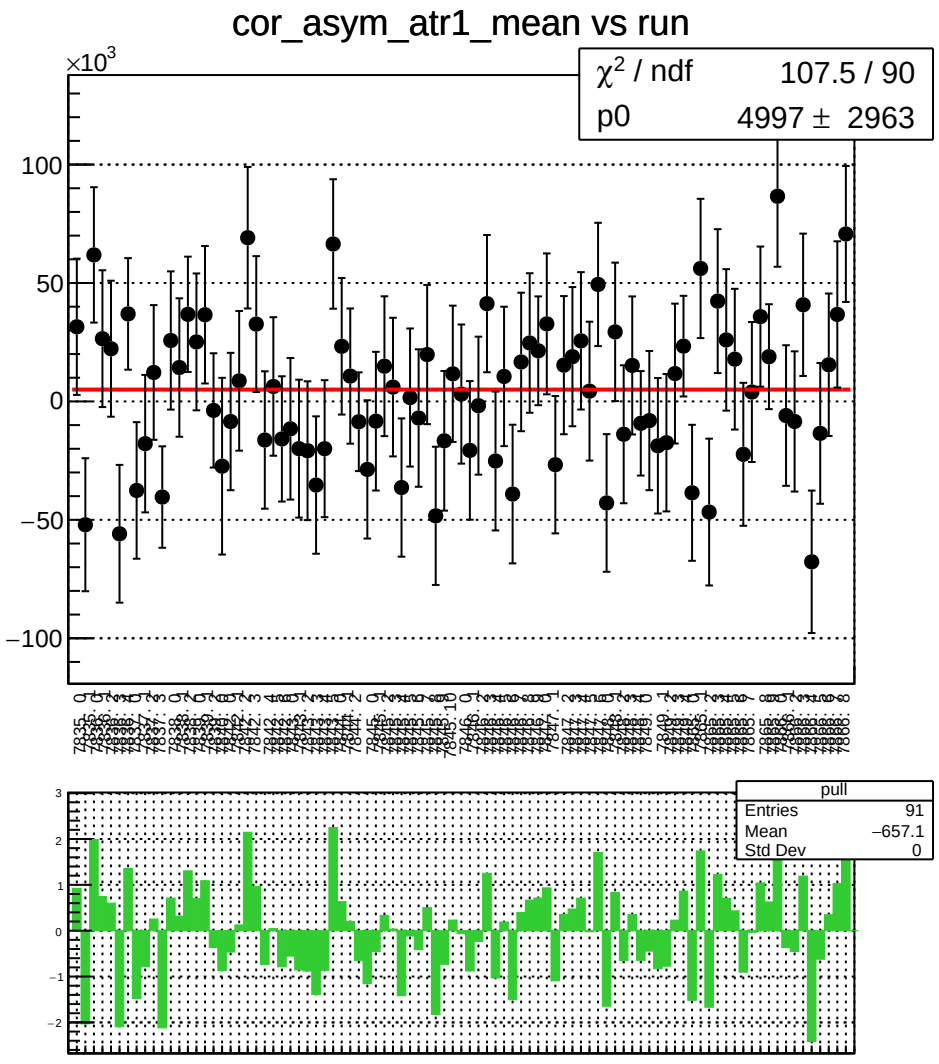

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 107.5 / 90
p0 4996 ± 2963
100
50
0
−50
−100
pull
Entries 91
Mean −656.9
Std Dev 0
3
2
1
0
−1
−2

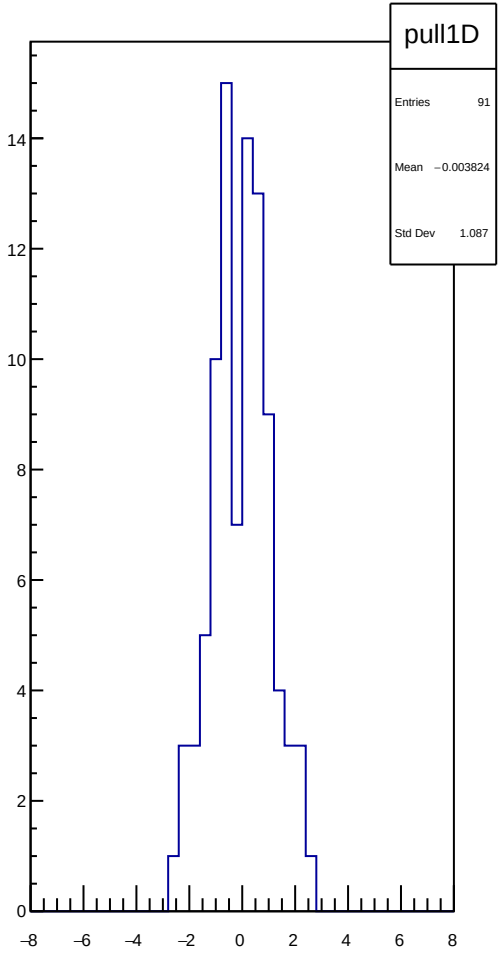

pull1D
Entries 91
Mean −0.003824
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

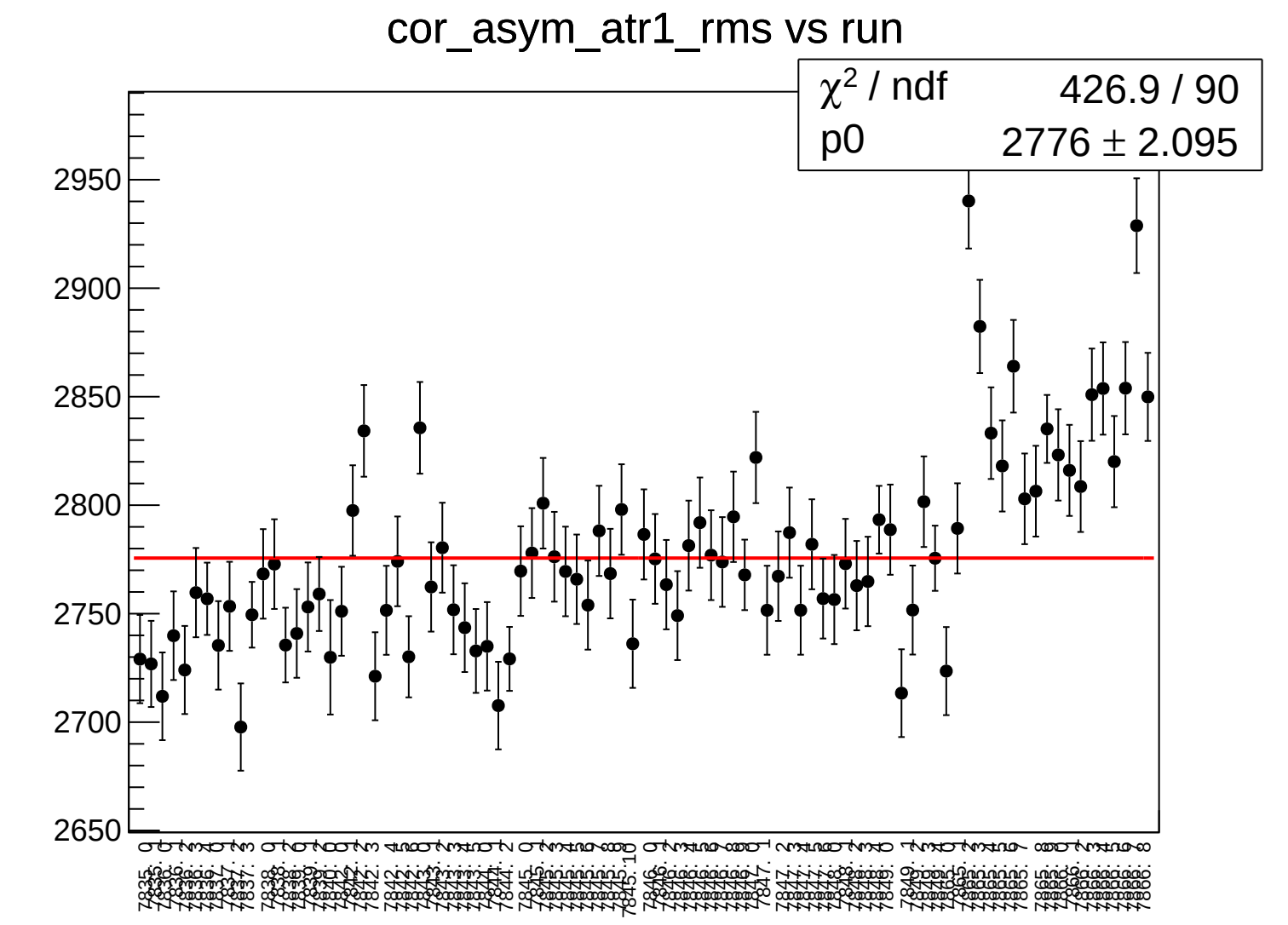

reg_asym_atr1_rms vs run
χ² / ndf 426.9 / 90
p0 2776 ± 2.095
2950
2900
2850
2800
2750
2700
2650

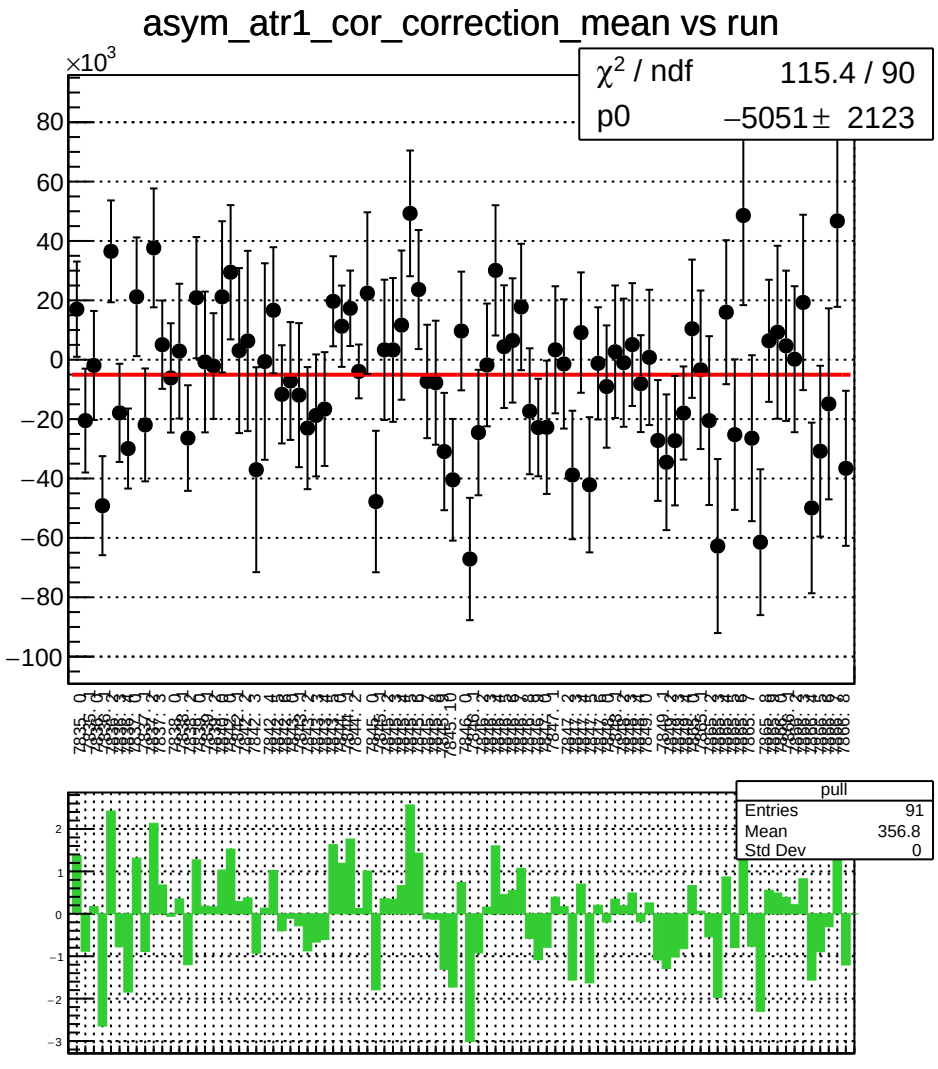

asym_atr1_reg_correction_mean vs run
×10^3
χ² / ndf 115.4 / 90
p0 −5051 ± 2123
pull
Entries 91
Mean 356.5
Std Dev 0
pull1D
Entries 91
Mean −0.0139
Std Dev 1.126

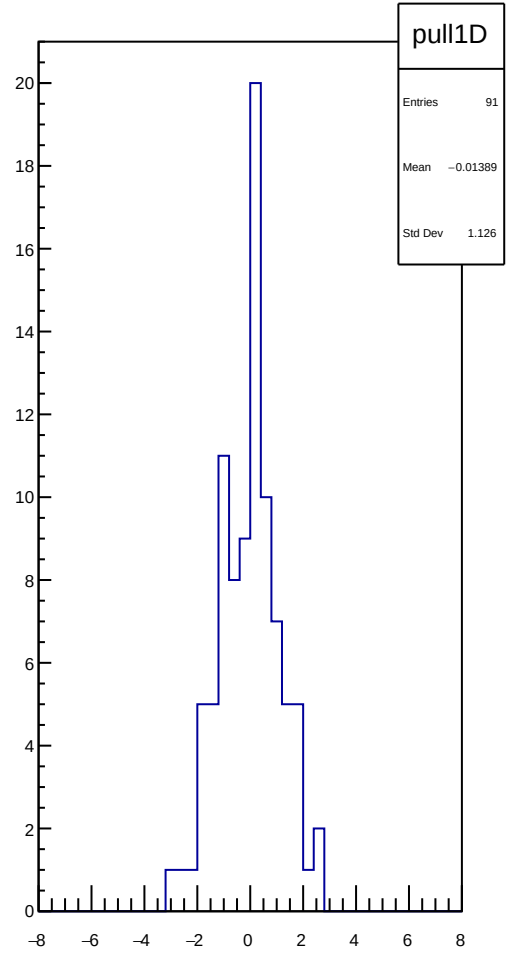

asym_atr1_reg_correction_rms vs run
χ² / ndf 7.195e+04 / 90
p0 1947 ± 1.501
3500
3000
2500
2000
1500
1000

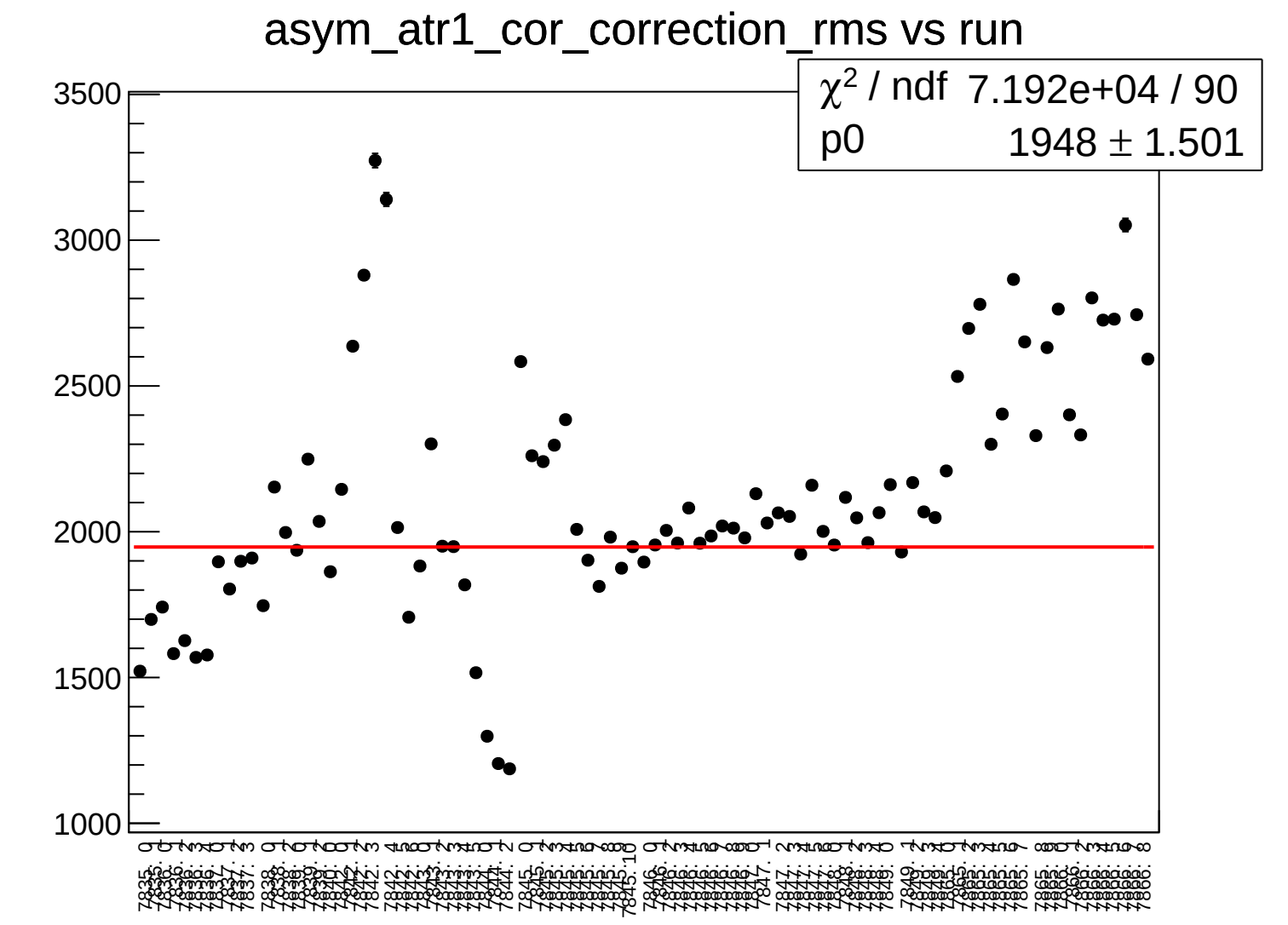

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 107.5 / 90
p0 4997 ± 2963
100
50
0
−50
−100
pull
Entries 91
Mean −657.1
Std Dev 0
3
2
1
0
−1
−2

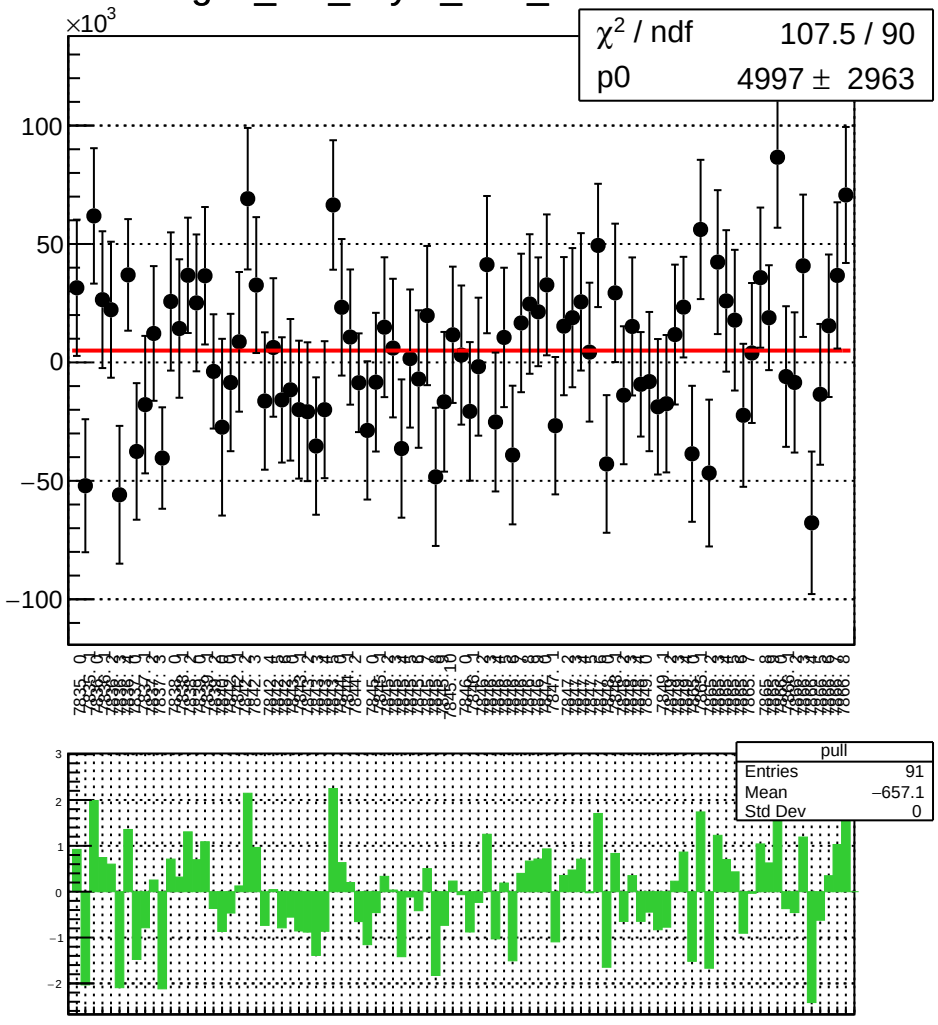

pull1D
Entries 91
Mean −0.003824
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

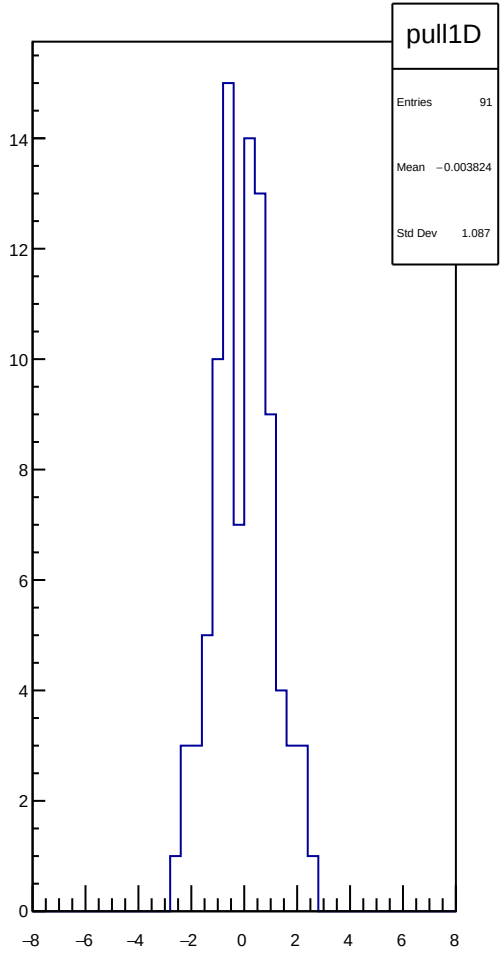

cor_asym_atr1_rms vs run
χ² / ndf 426.9 / 90
p0 2776 ± 2.095
2950
2900
2850
2800
2750
2700
2650

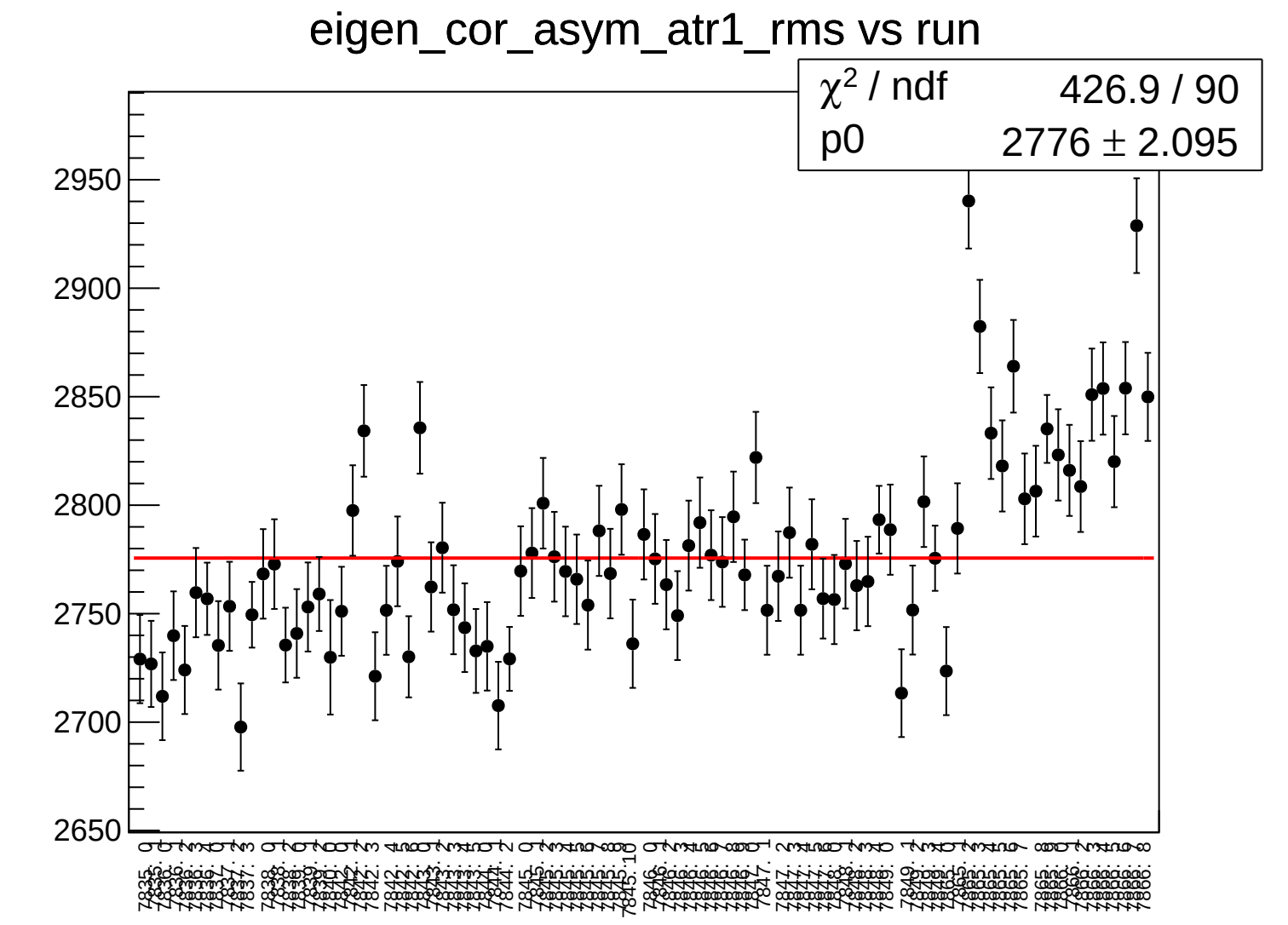

asym_atr1_cor_correction_mean vs run
χ² / ndf 115.4 / 90
p0 −5051 ± 2123
×10³
pull
Entries 91
Mean 356.8
Std Dev 0

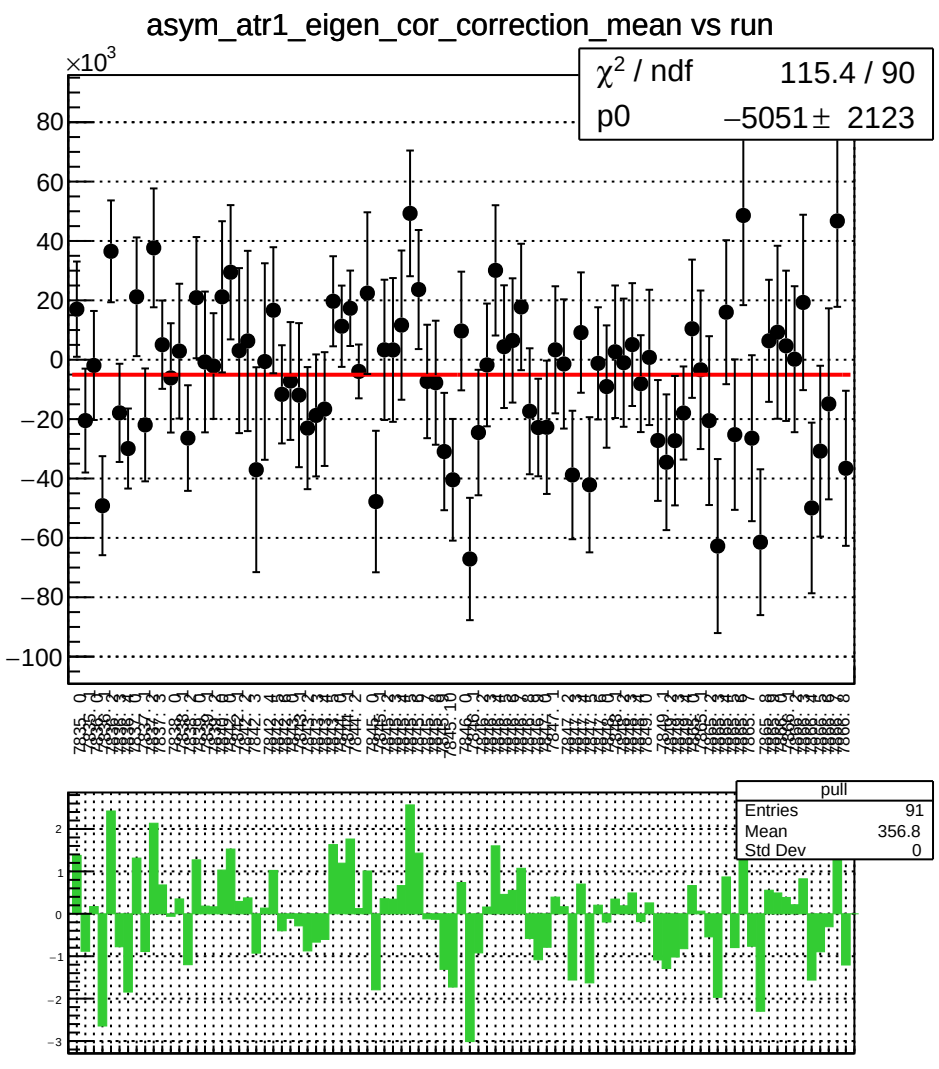

pull1D
Entries 91
Mean −0.01389
Std Dev 1.126

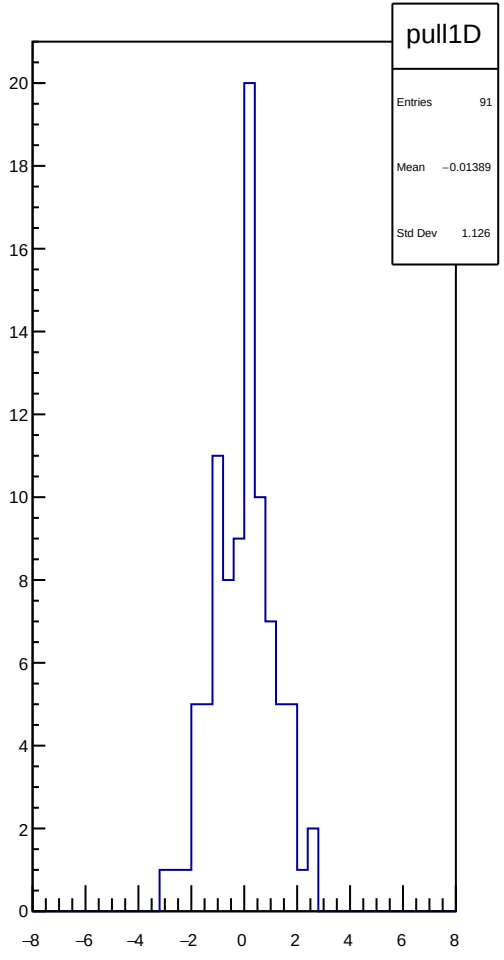

asym_atr1_cor_correction_rms vs run
χ² / ndf 7.192e+04 / 90
p0 1948 ± 1.501
3500
3000
2500
2000
1500
1000

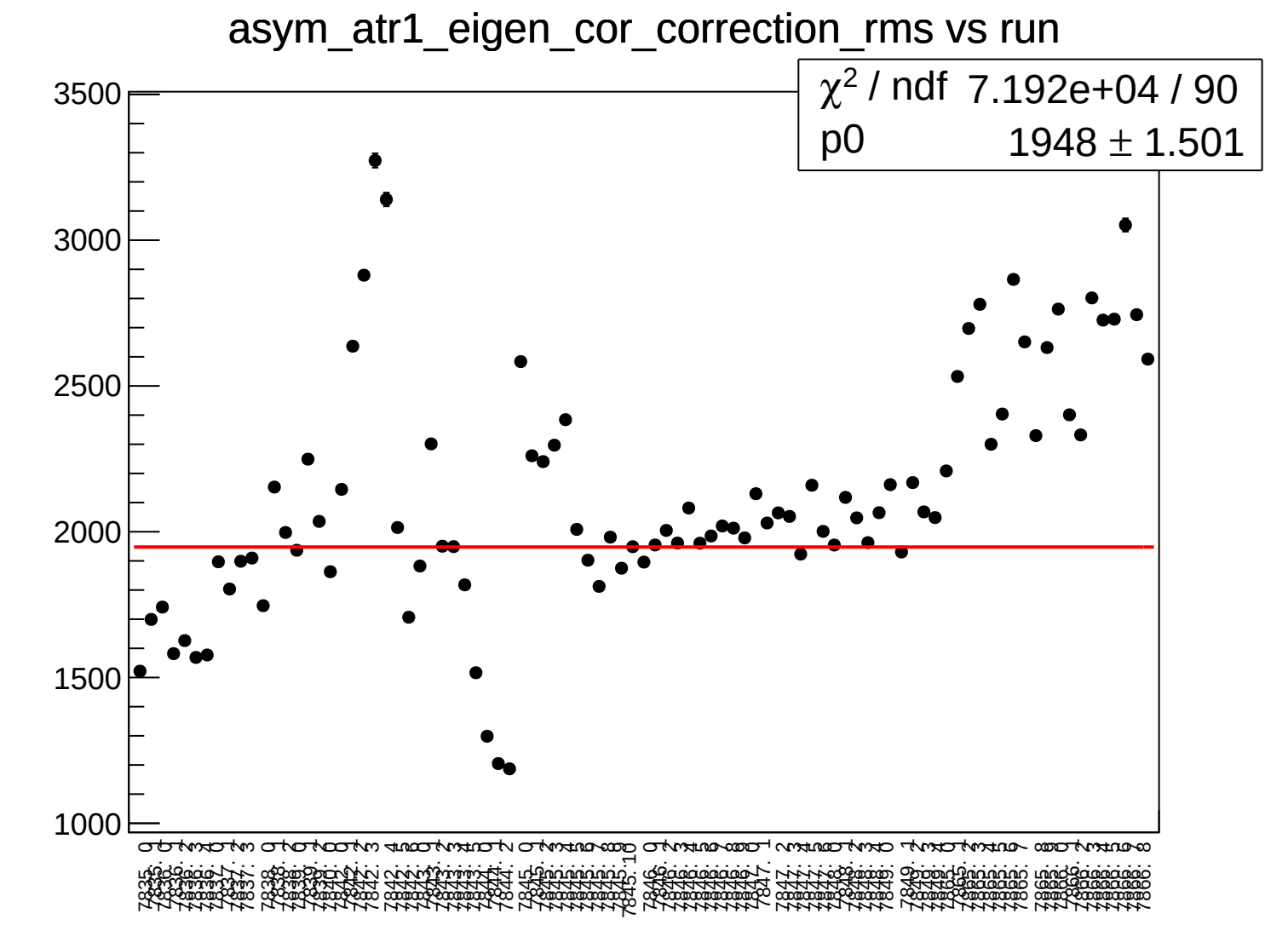

eigen_cor_asym_atr1_mean vs run
χ² / ndf 107.5 / 90
p0 4997 ± 2963
×10³
100
50
0
−50
−100
pull
Entries 91
Mean −657.1
Std Dev 0
3
2
1
0
−1
−2

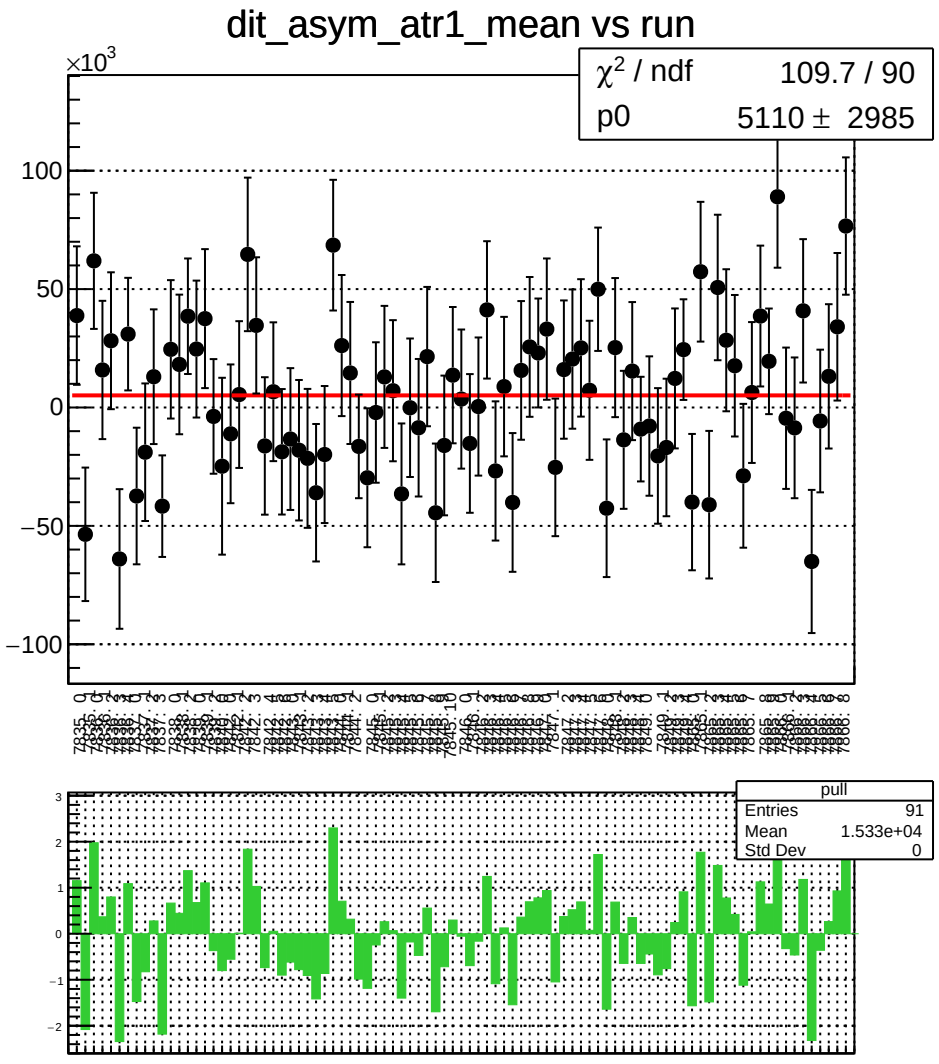

pull1D
Entries 91
Mean −0.003824
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

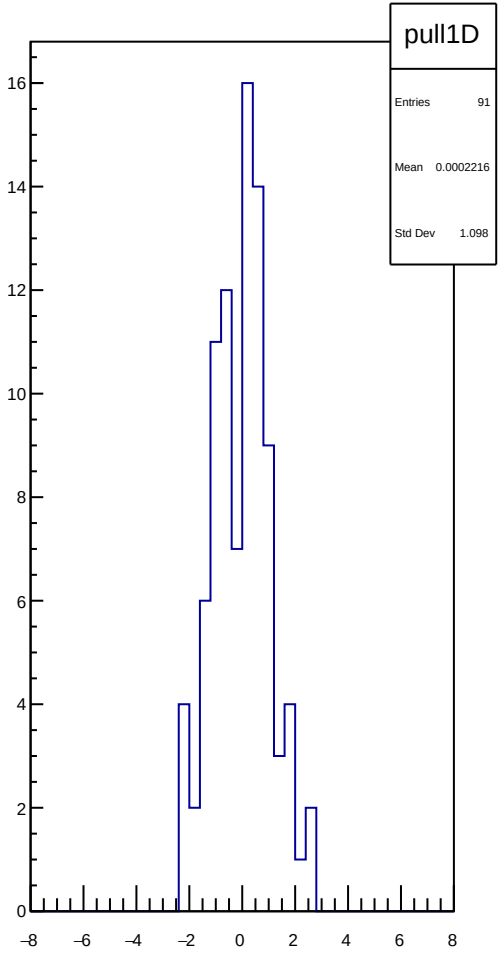

eigen_cor_asym_atr1_rms vs run
χ² / ndf 426.9 / 90
p0 2776 ± 2.095
2950
2900
2850
2800
2750
2700
2650

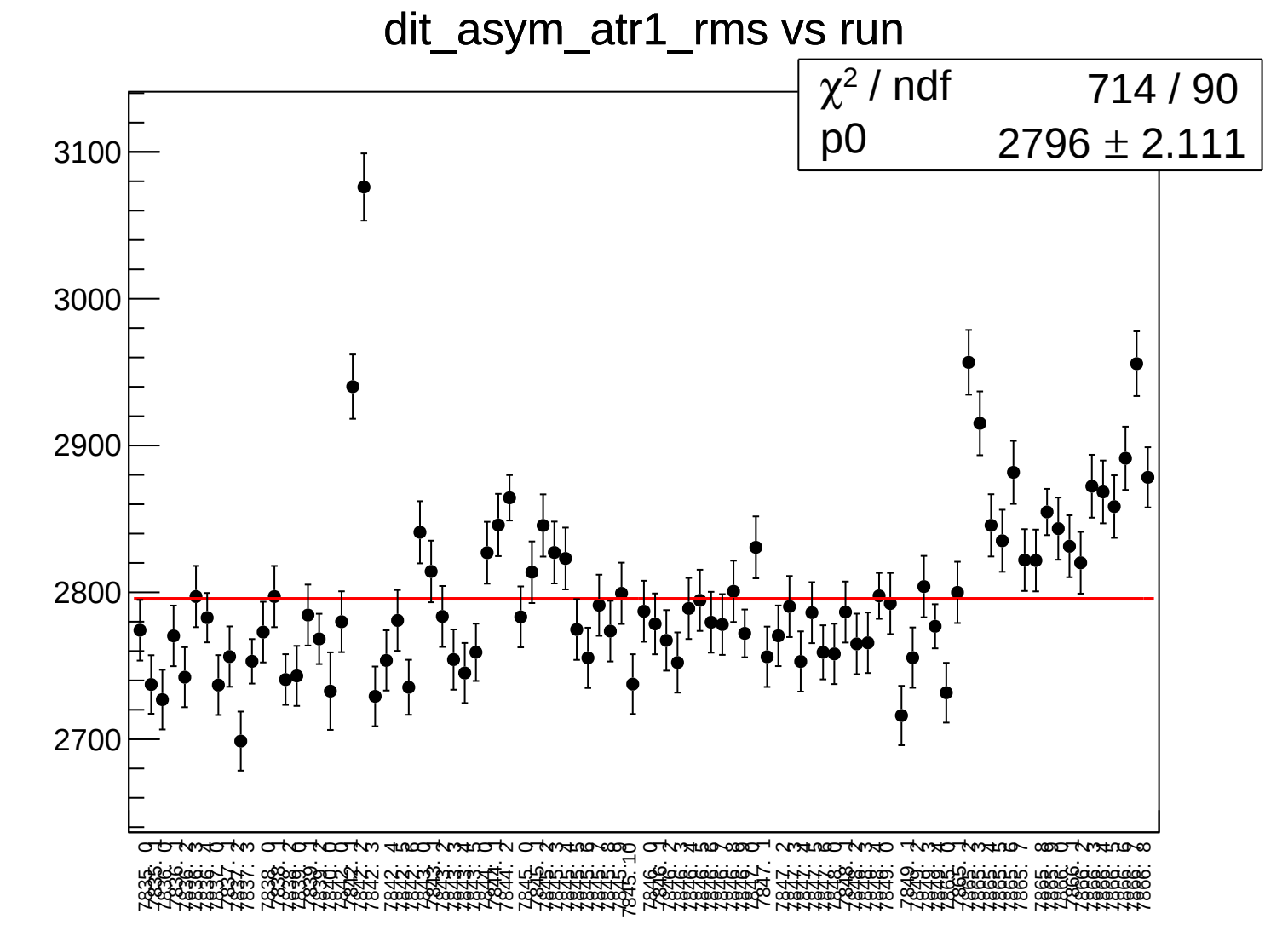

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 115.4 / 90
p0 −5051 ± 2123
×10³
pull
Entries 91
Mean 356.8
Std Dev 0

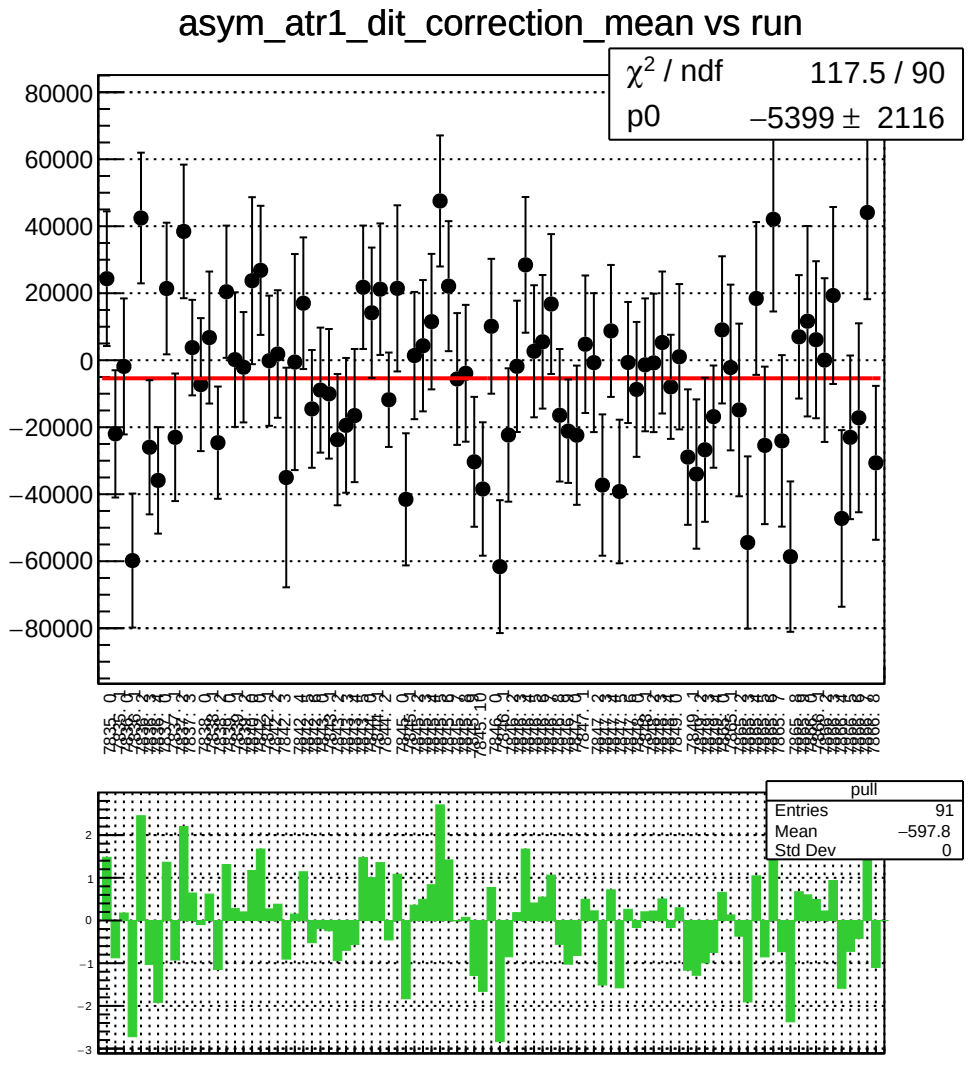

pull1D
Entries 91
Mean −0.01389
Std Dev 1.126

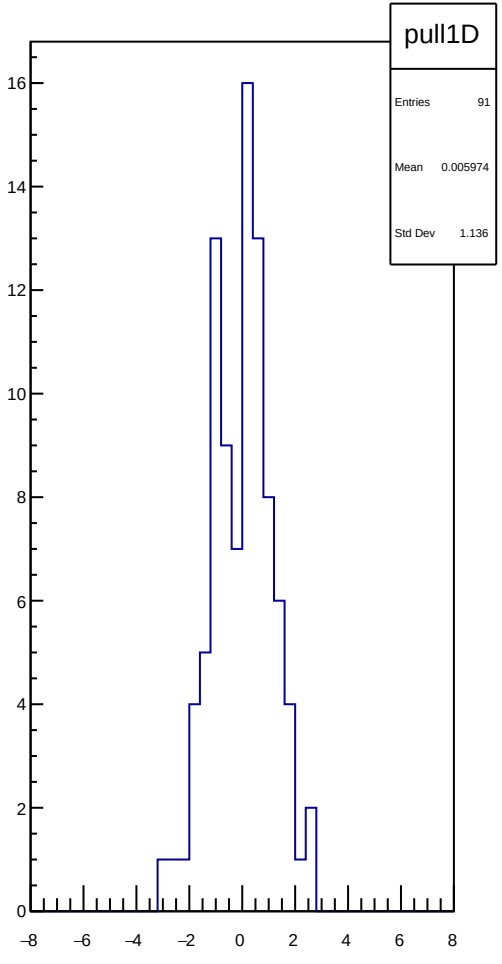

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 7.192e+04 / 90
p0 1948 ± 1.501
3500
3000
2500
2000
1500
1000

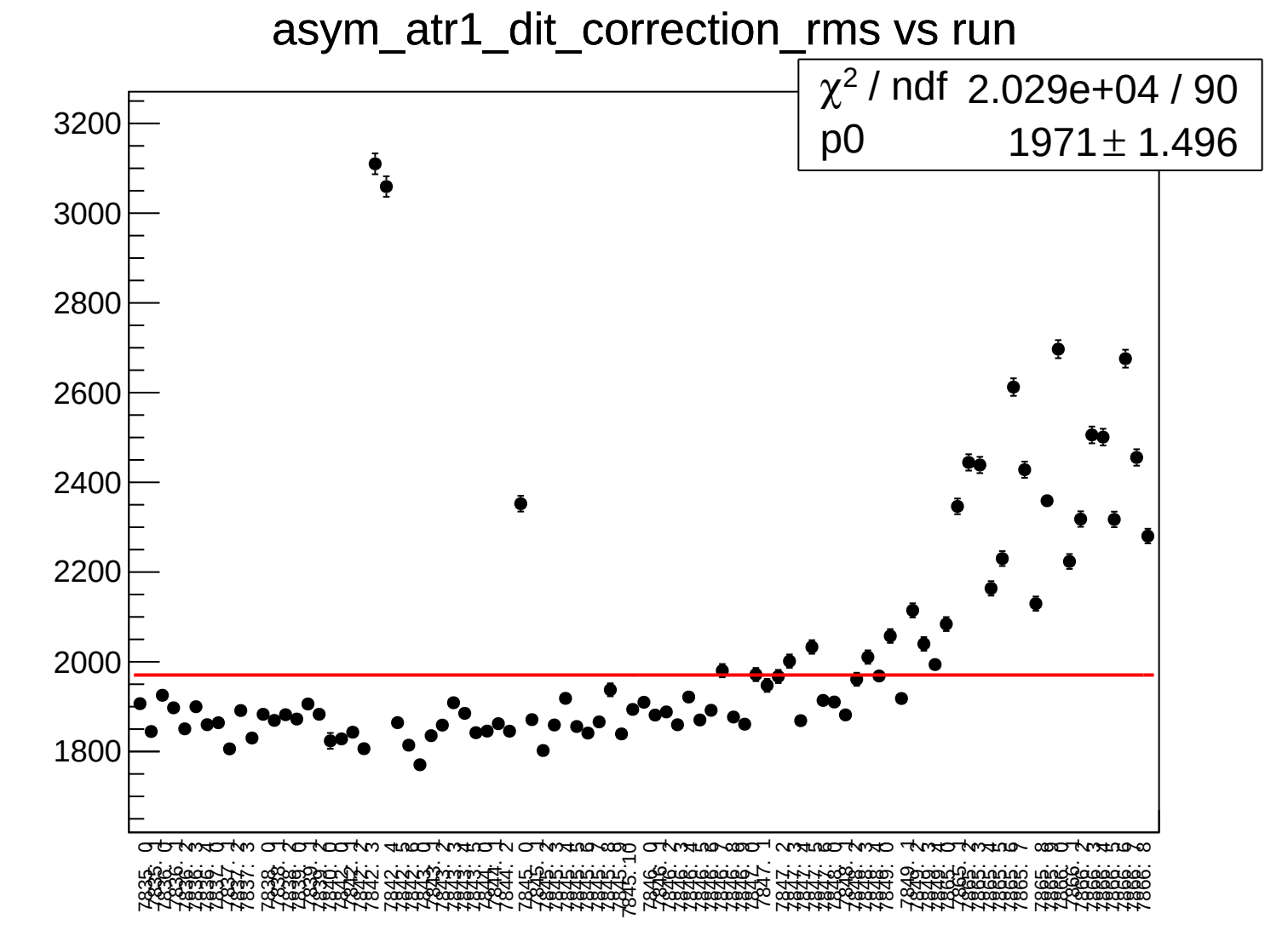

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 109.7 / 90
p0 5110 ± 2985
100
50
0
−50
−100
pull
Entries 91
Mean 1.533e+04
Std Dev 0
3
2
1
0
−1
−2

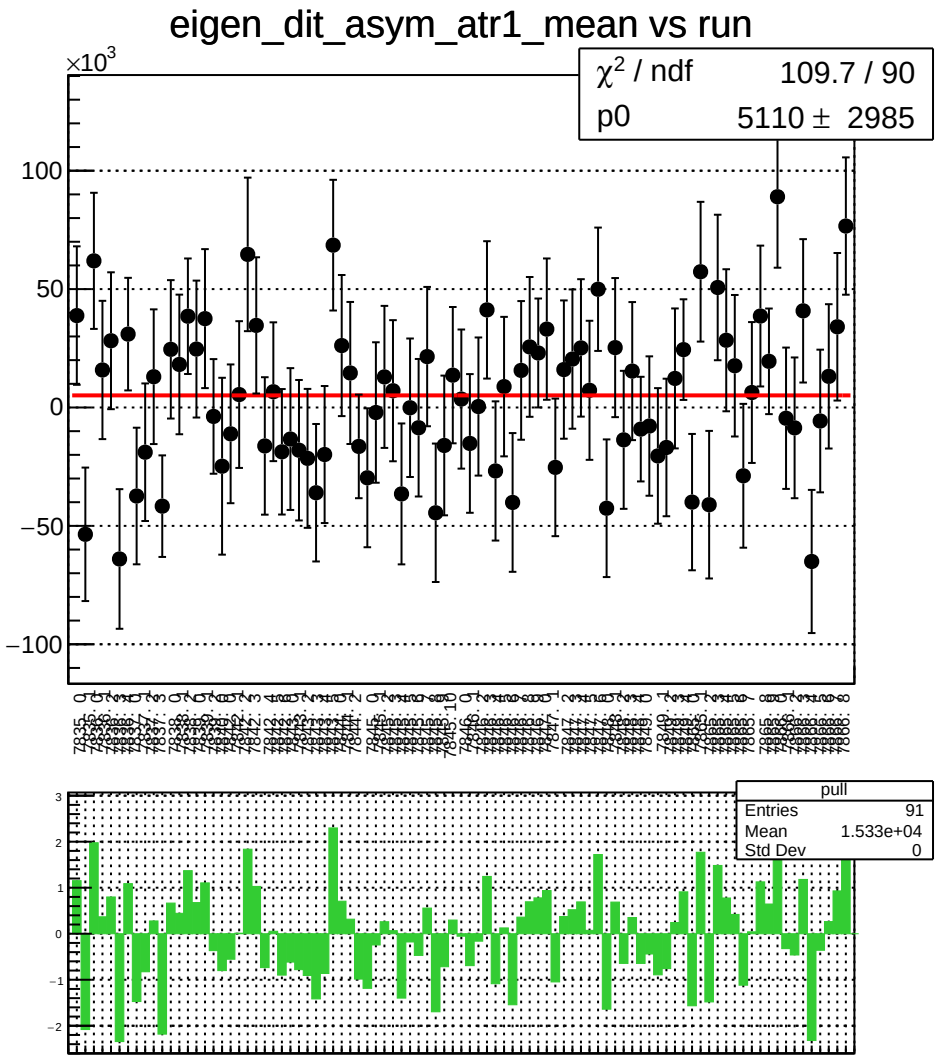

pull1D
Entries 91
Mean 0.0002216
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

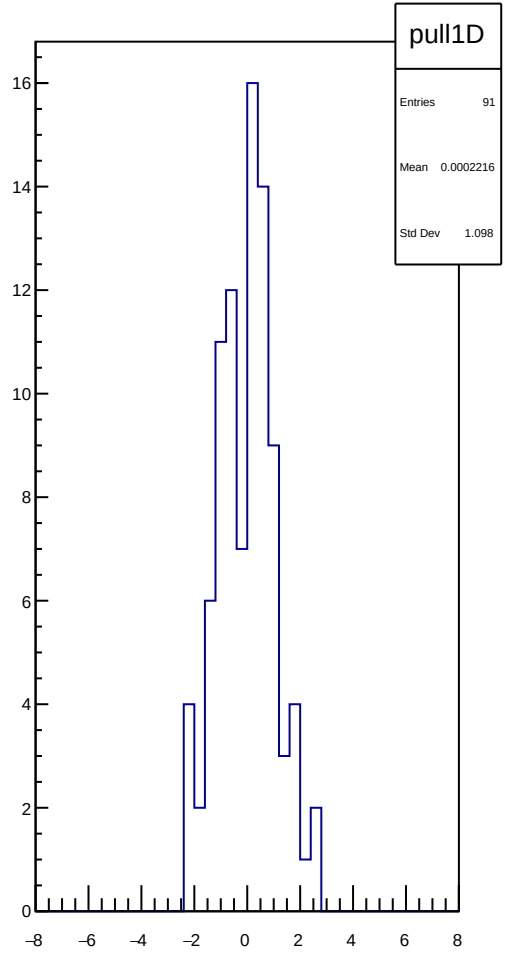

dit_asym_atr1_rms vs run
χ² / ndf 714 / 90
p0 2796 ± 2.111
3100
3000
2900
2800
2700

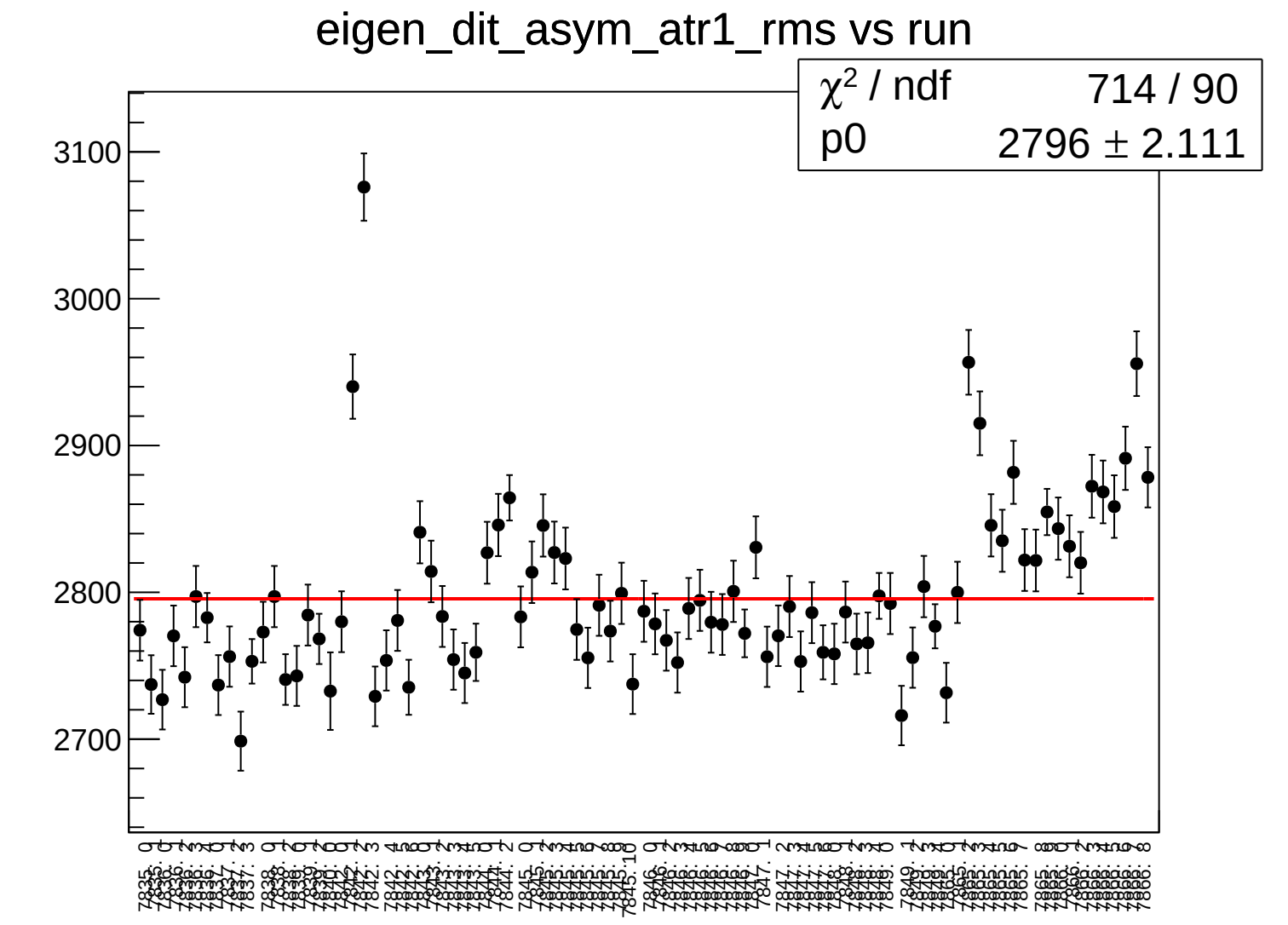

asym_atr1_dit_correction_mean vs run
χ² / ndf 117.5 / 90
p0 −5399 ± 2116
pull
Entries 91
Mean −597.8
Std Dev 0

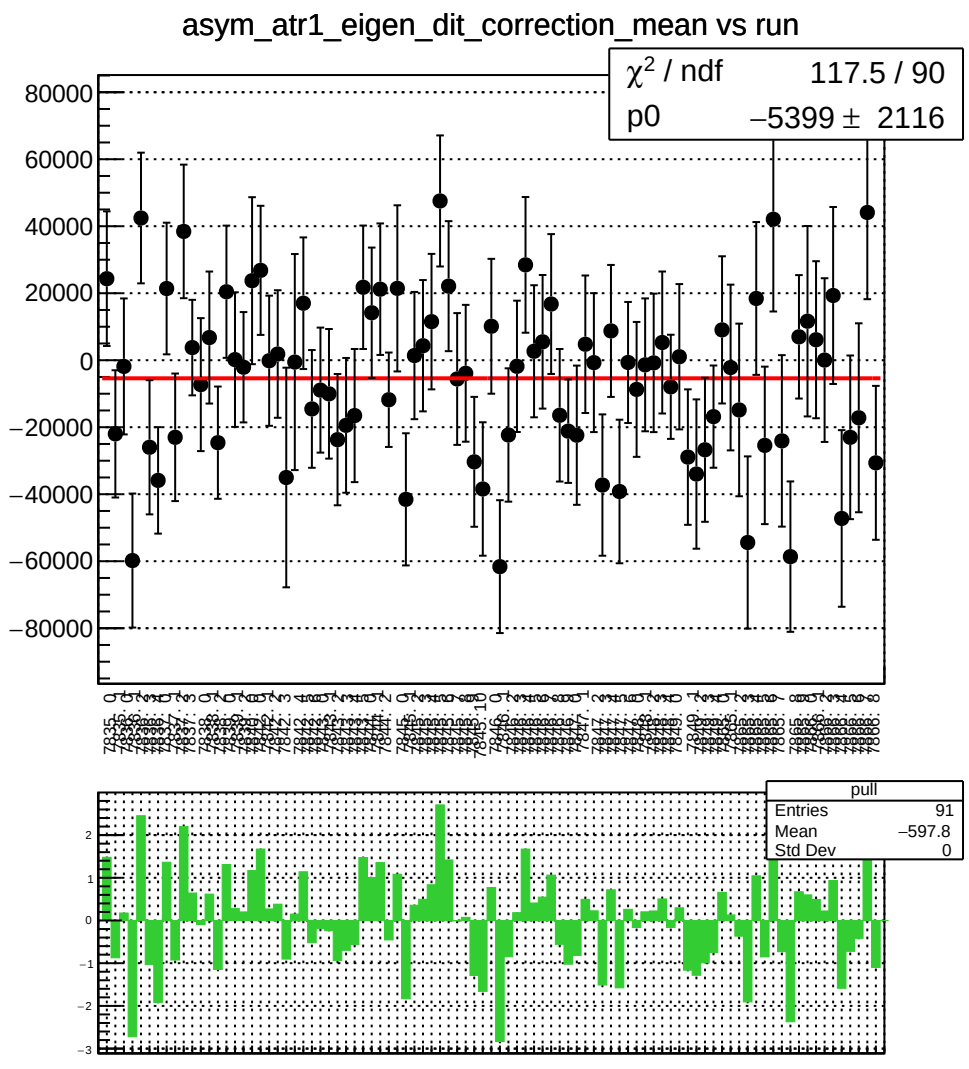

pull1D
Entries 91
Mean 0.005974
Std Dev 1.136

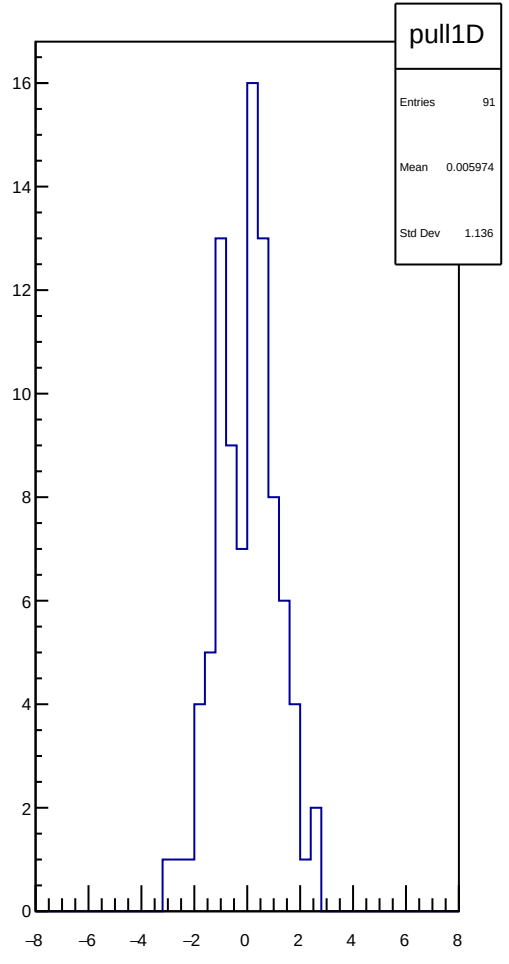

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.029e+04 / 90
p0 1971 ± 1.496
3200
3000
2800
2600
2400
2200
2000
1800

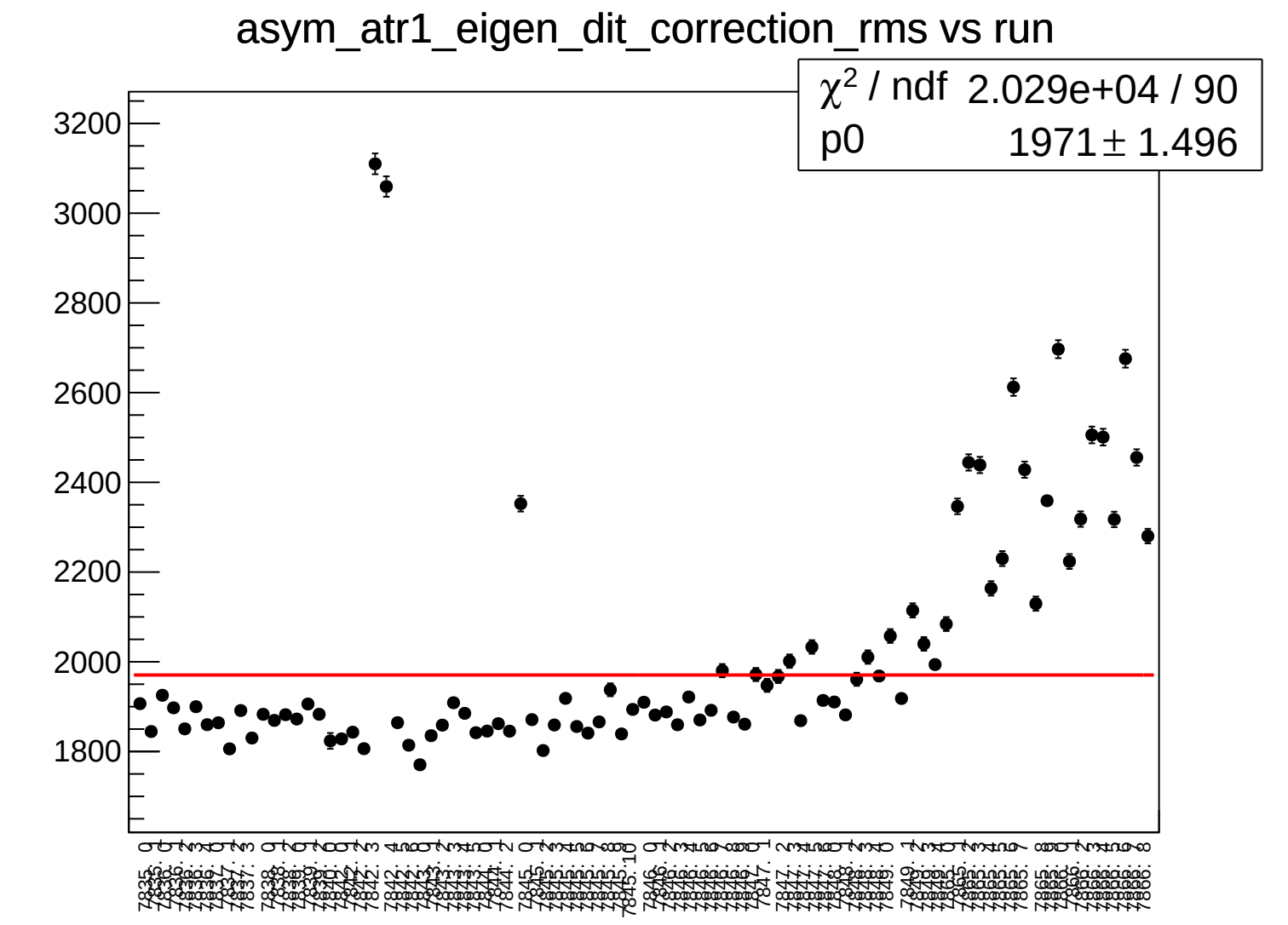

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 109.7 / 90
p0 5110 ± 2985
100
50
0
−50
−100
pull
Entries 91
Mean 1.533e+04
Std Dev 0
3
2
1
0
−1
−2

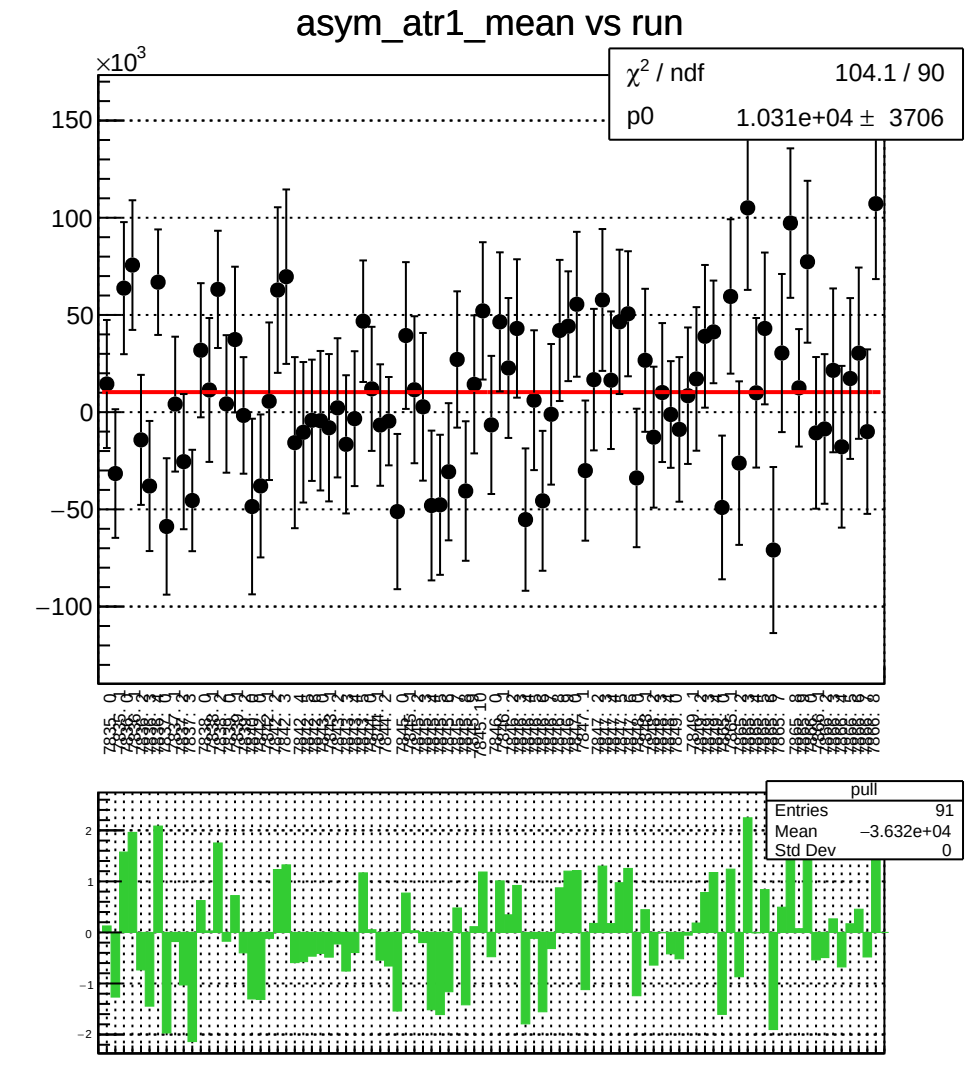

pull1D
Entries 91
Mean 0.0002216
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

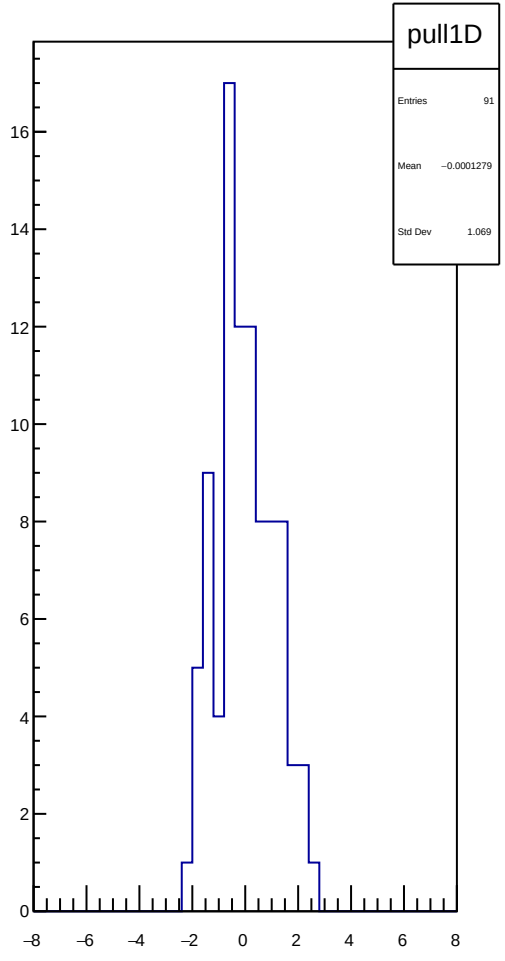

eigen_dit_asym_atr1_rms vs run
χ² / ndf 714 / 90
p0 2796 ± 2.111
3100
3000
2900
2800
2700

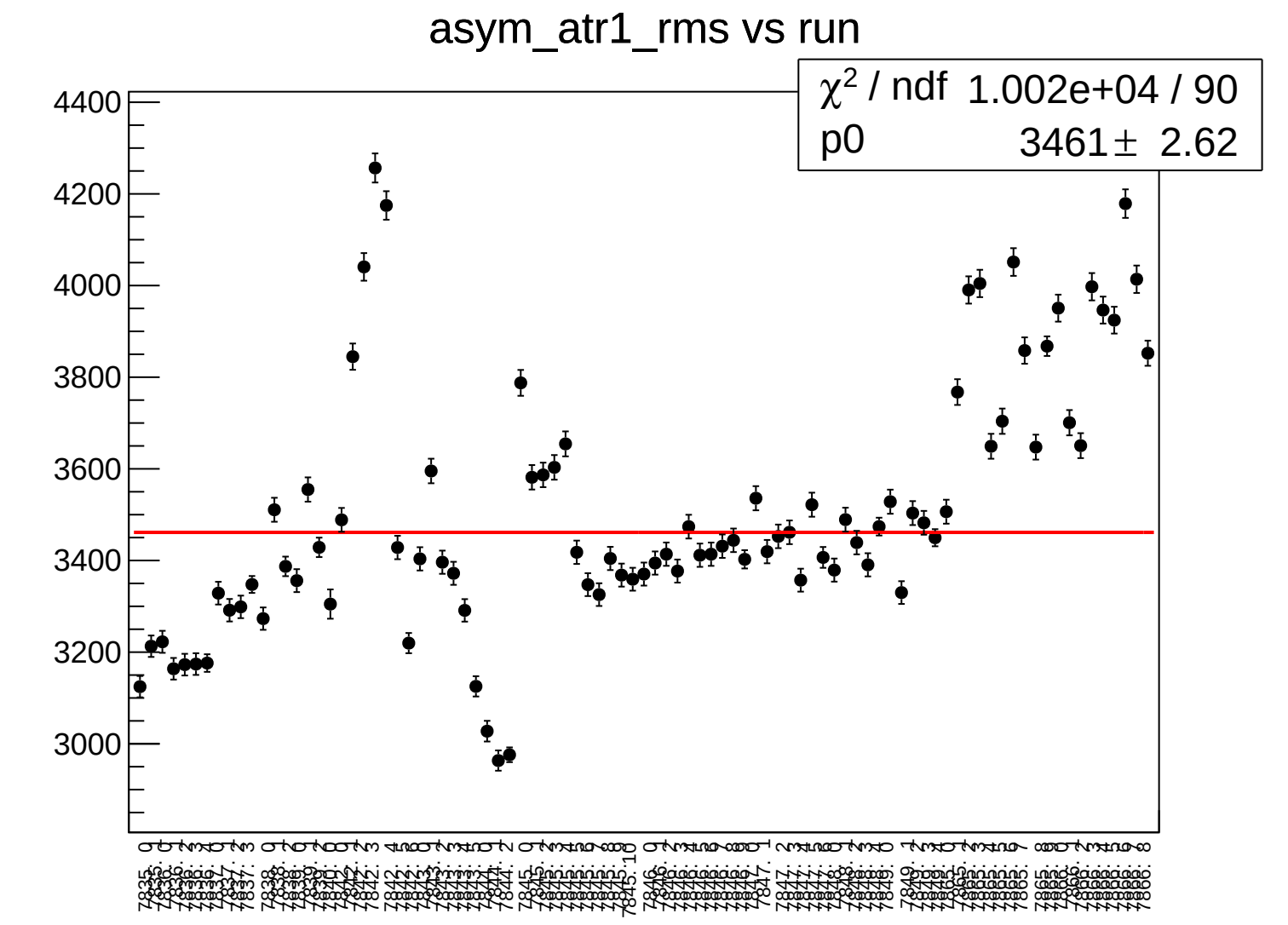

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 117.5 / 90
p0 −5399 ± 2116
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −597.8
Std Dev 0
2
1
0
−1
−2
−3

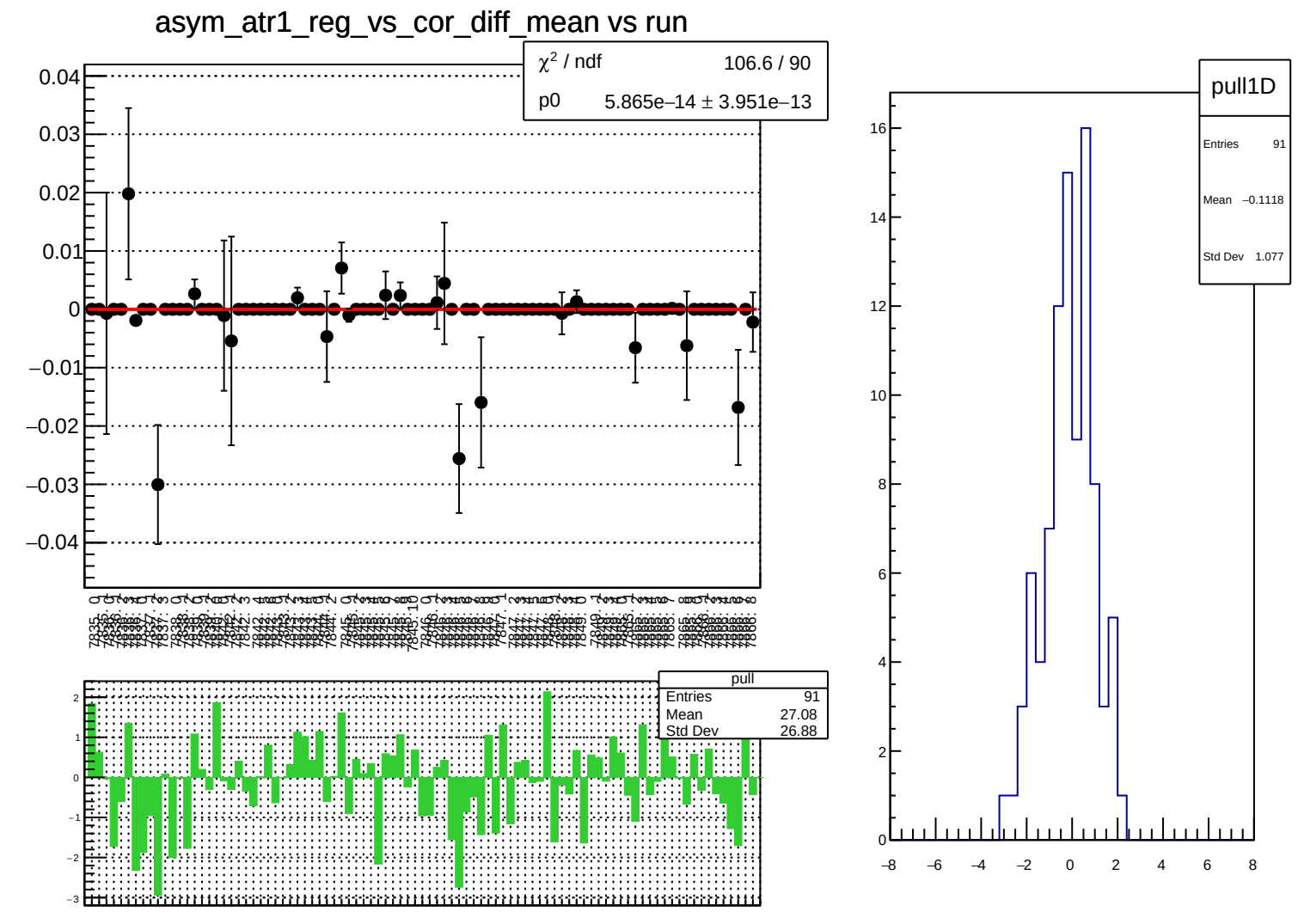

pull1D
Entries 91
Mean 0.005974
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

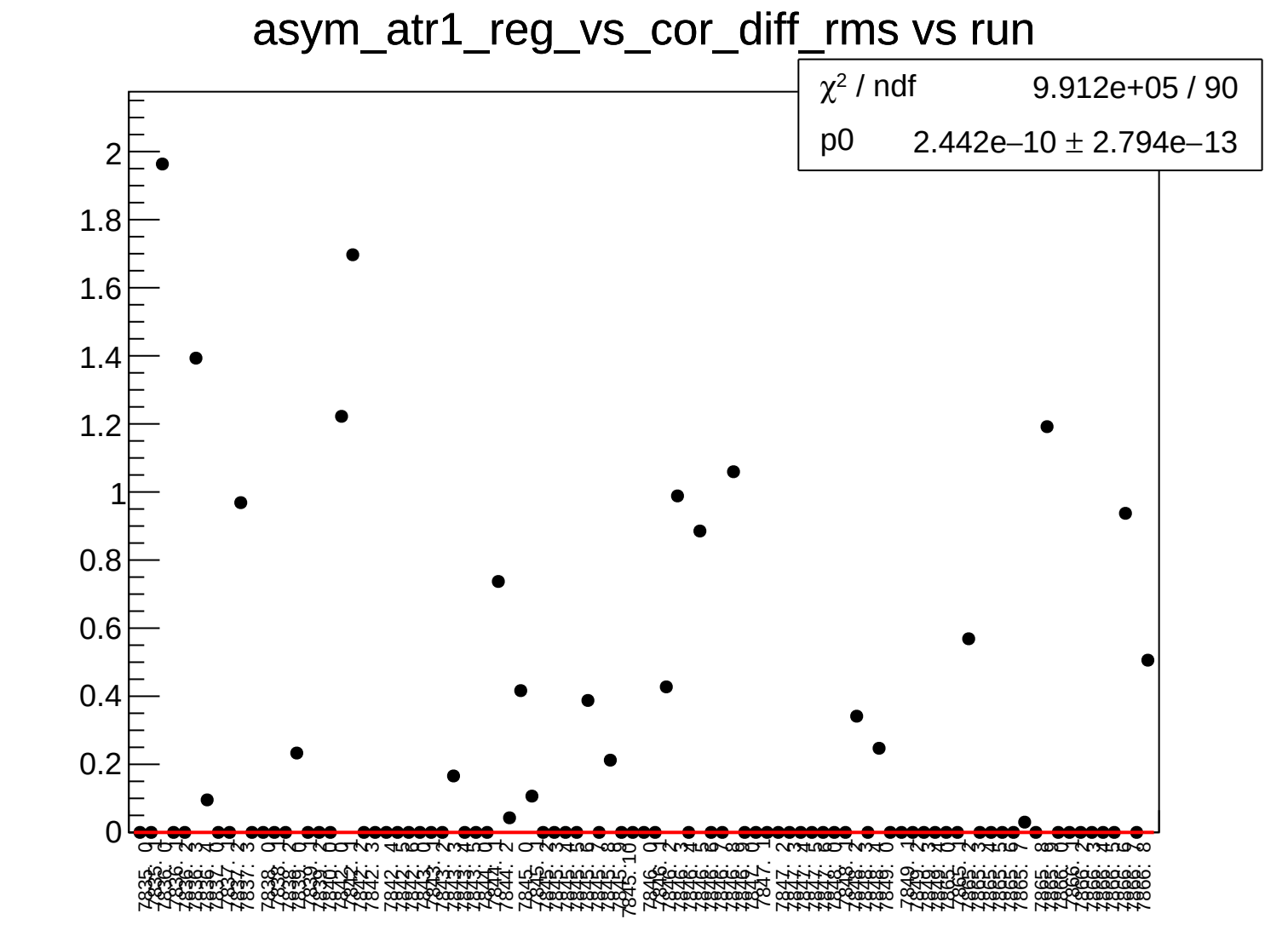

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.029e+04 / 90
p0 1971 ± 1.496
3200
3000
2800
2600
2400
2200
2000
1800

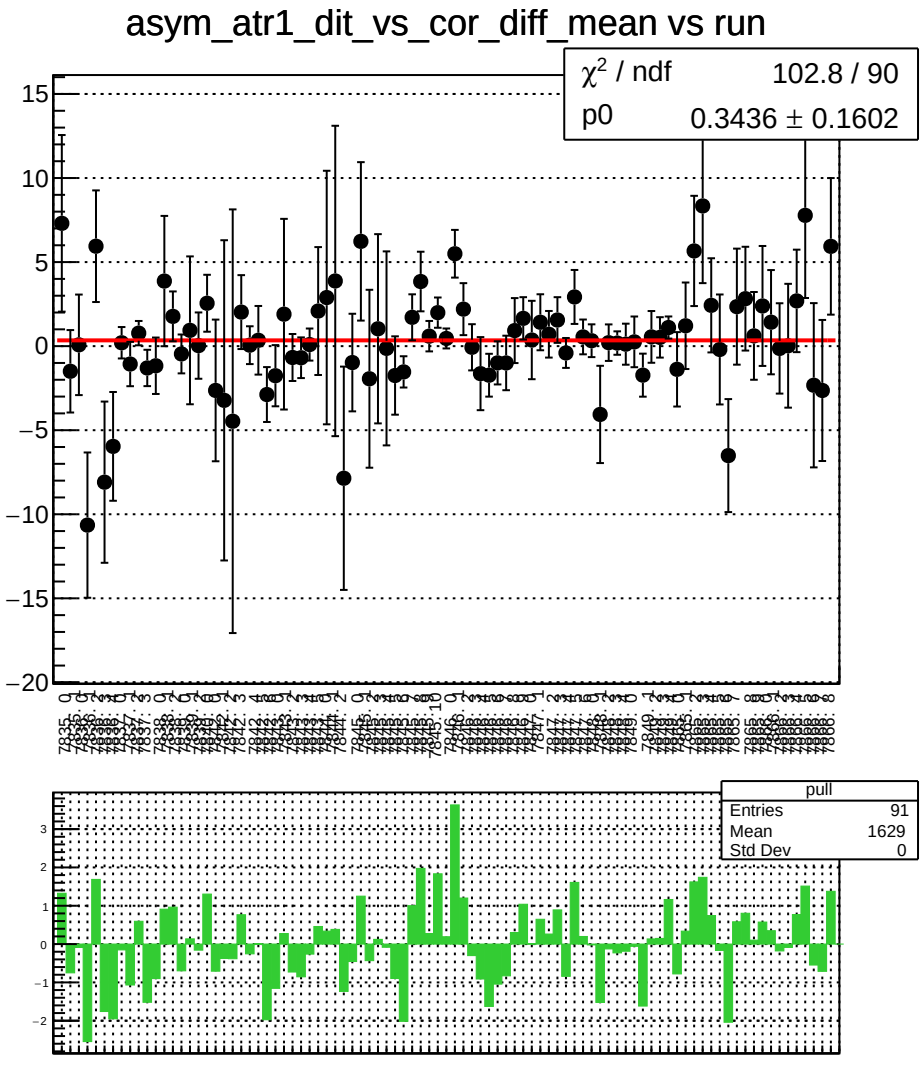

asym_atr1_mean vs run
×10^3
χ² / ndf 104.1 / 90
p0 1.031e+04 ± 3706
150
100
50
0
−50
−100
pull
Entries 91
Mean −3.632e+04
Std Dev 0
2
1
0
−1
−2

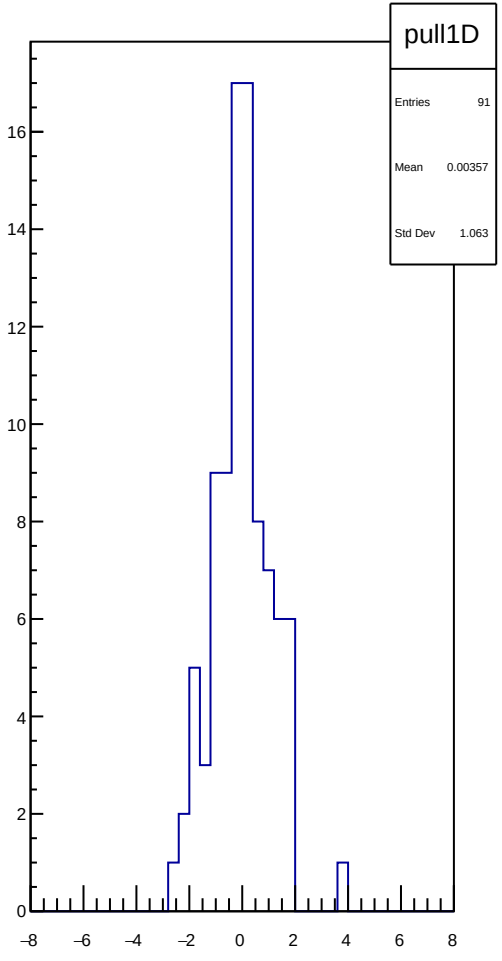

pull1D
Entries 91
Mean −0.0001279
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_rms vs run
χ² / ndf 1.002e+04 / 90
p0 3461 ± 2.62
4400
4200
4000
3800
3600
3400
3200
3000

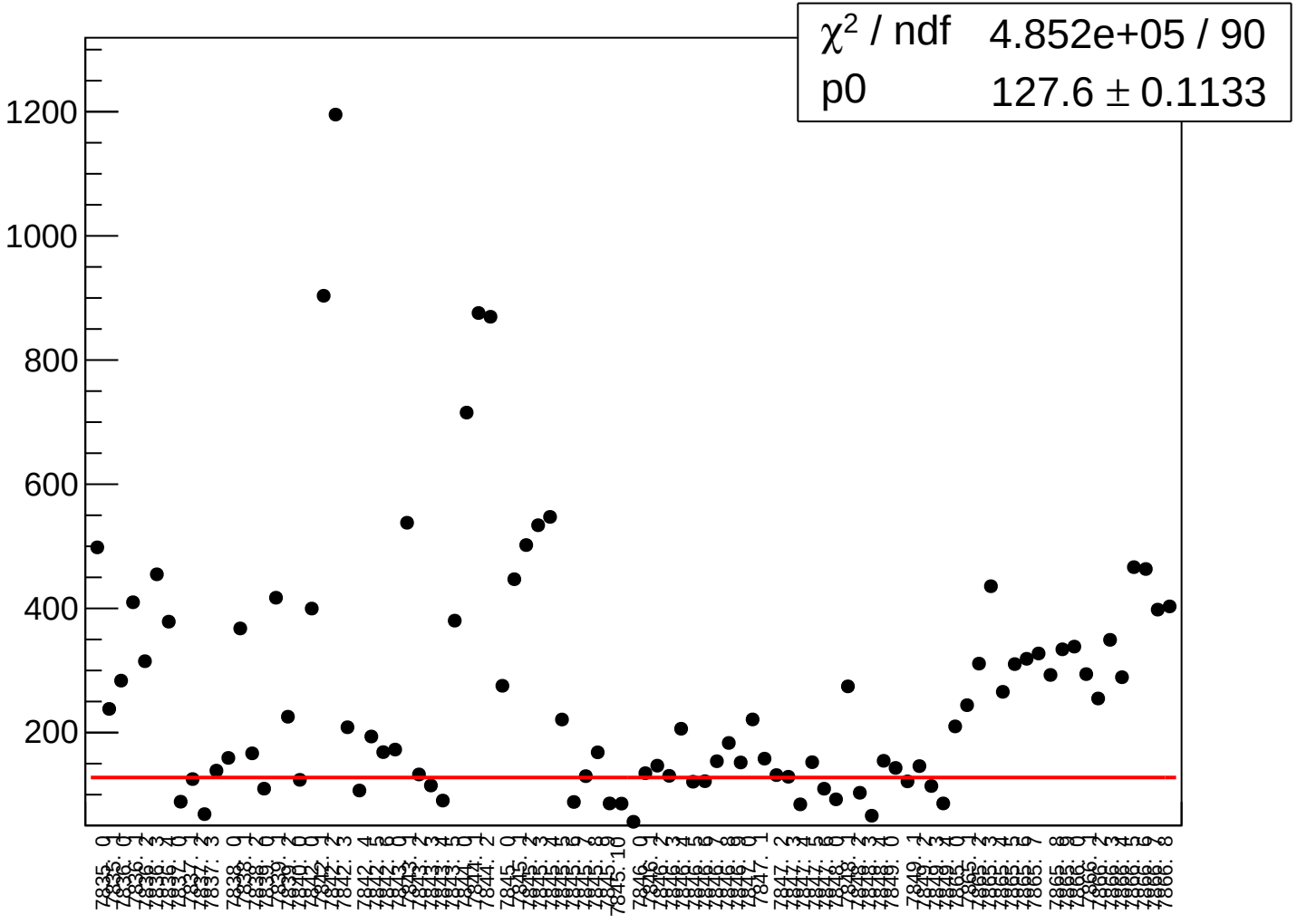

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 90
p0 5.865e−14 ± 3.951e−13
pull
Entries 91
Mean 27.08
Std Dev 26.88
pull1D
Entries 91
Mean −0.1118
Std Dev 1.077

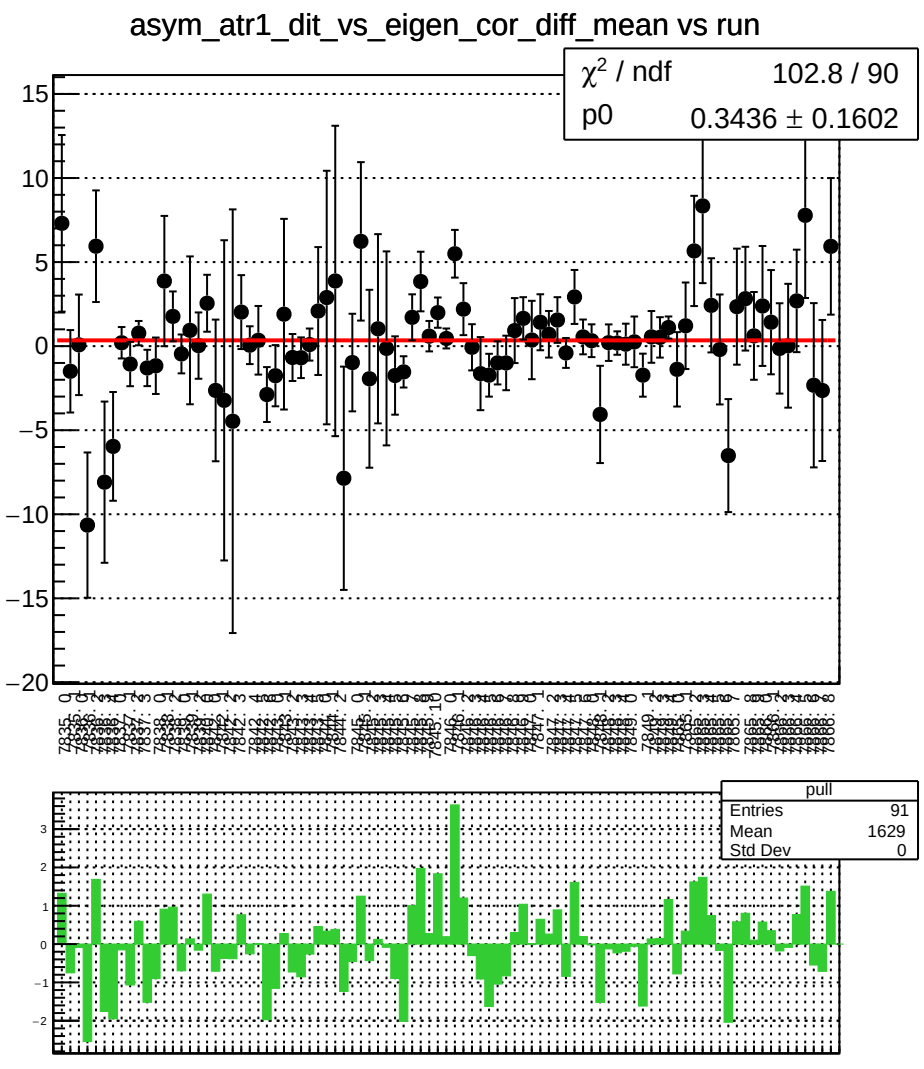

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.912e+05 / 90
p0 2.442e−10 ± 2.794e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

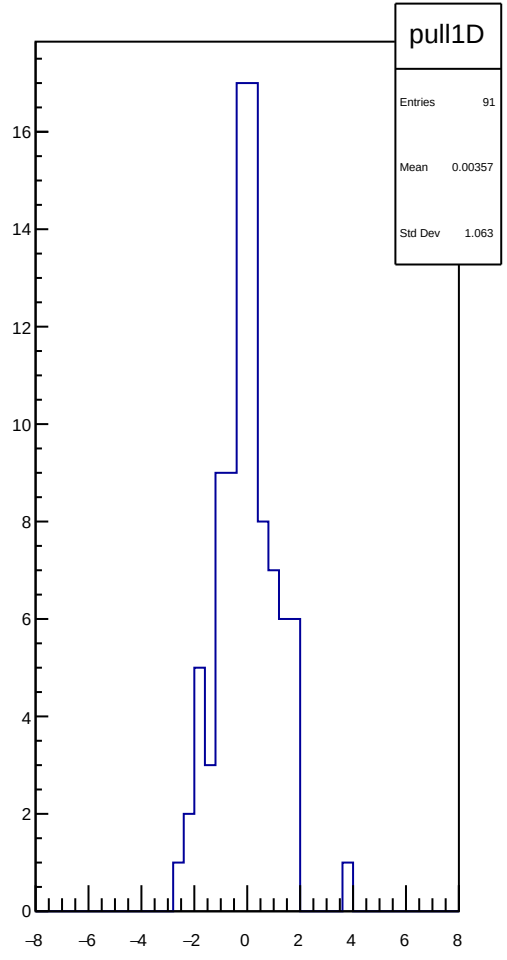

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.3436 ± 0.1602
pull
Entries 91
Mean 1629
Std Dev 0

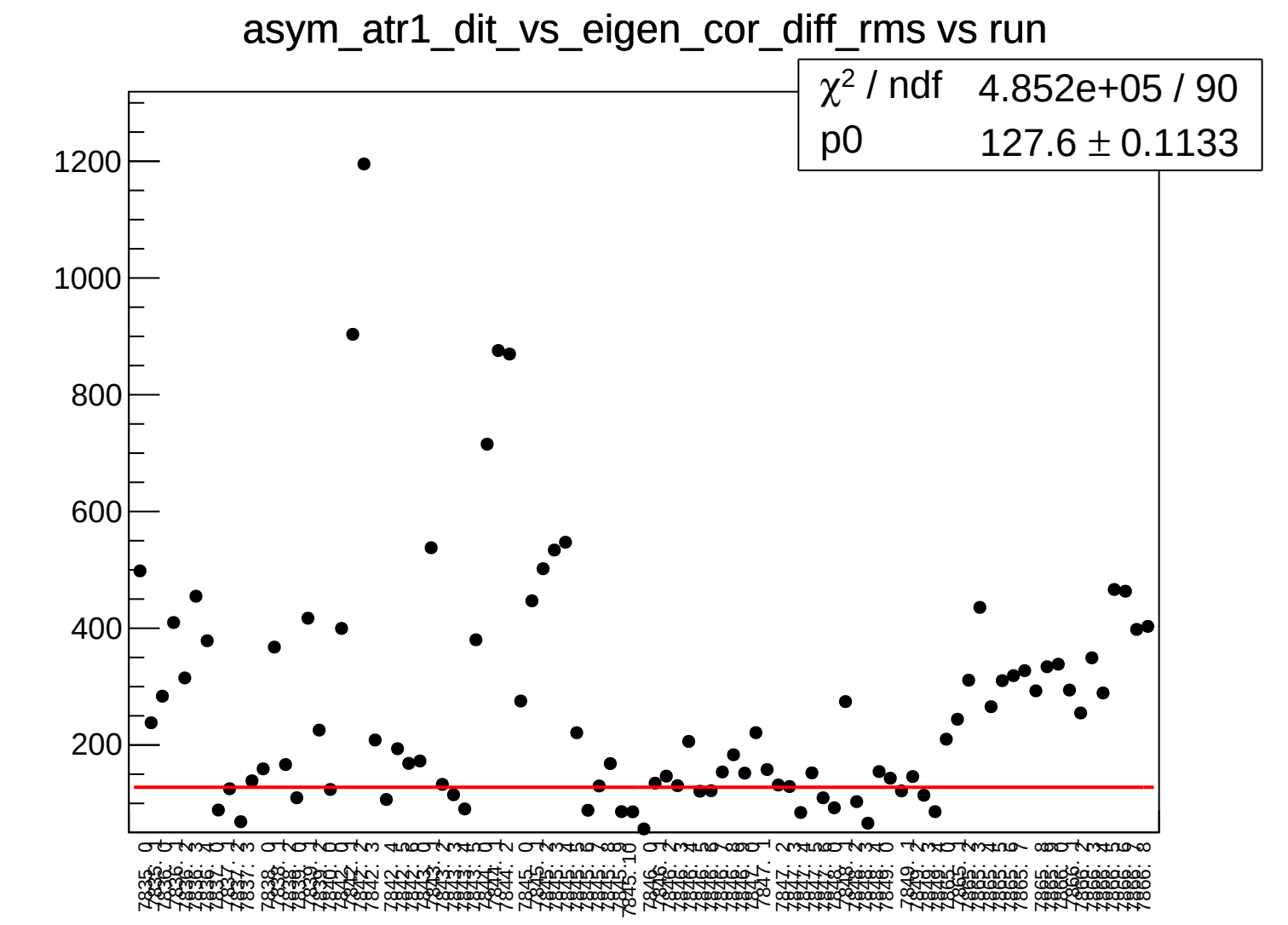

pull1D
Entries 91
Mean 0.00357
Std Dev 1.063

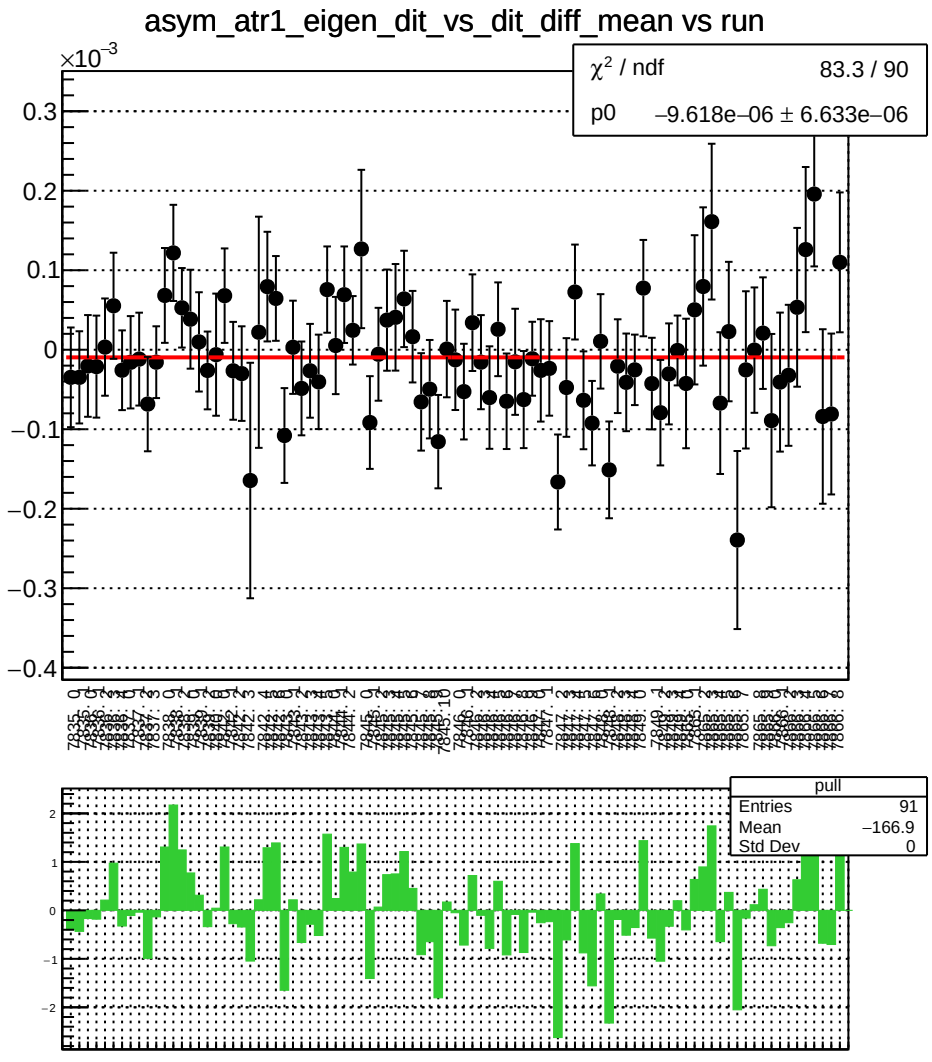
asym_atr1_dit_vs_cor_diff_rms vs run

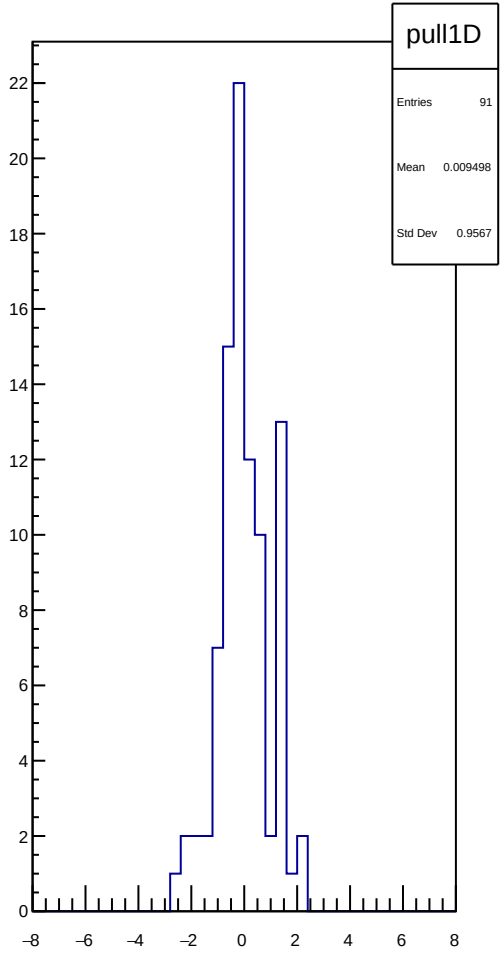


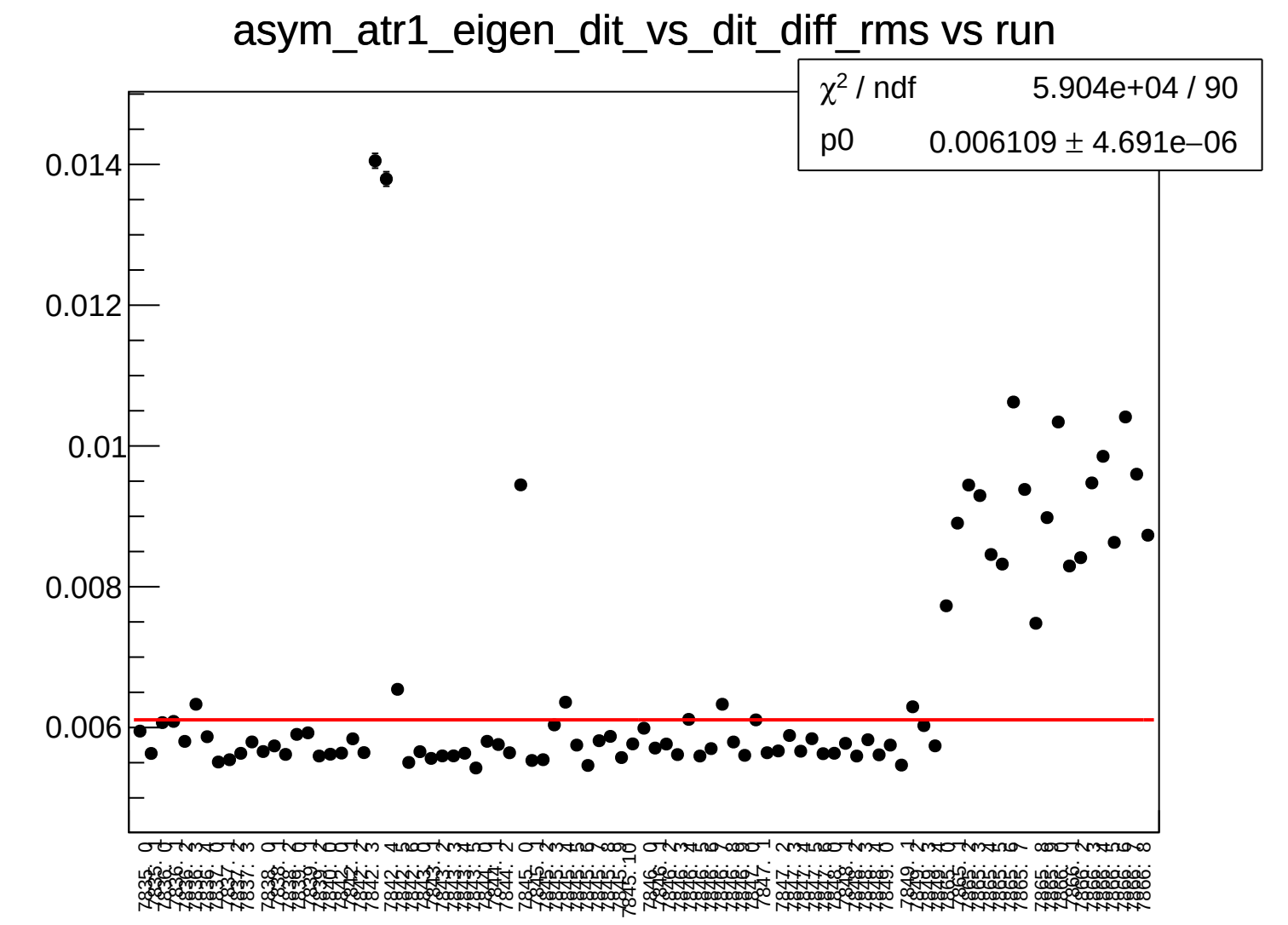

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.3436 ± 0.1602
pull
Entries 91
Mean 1629
Std Dev 0

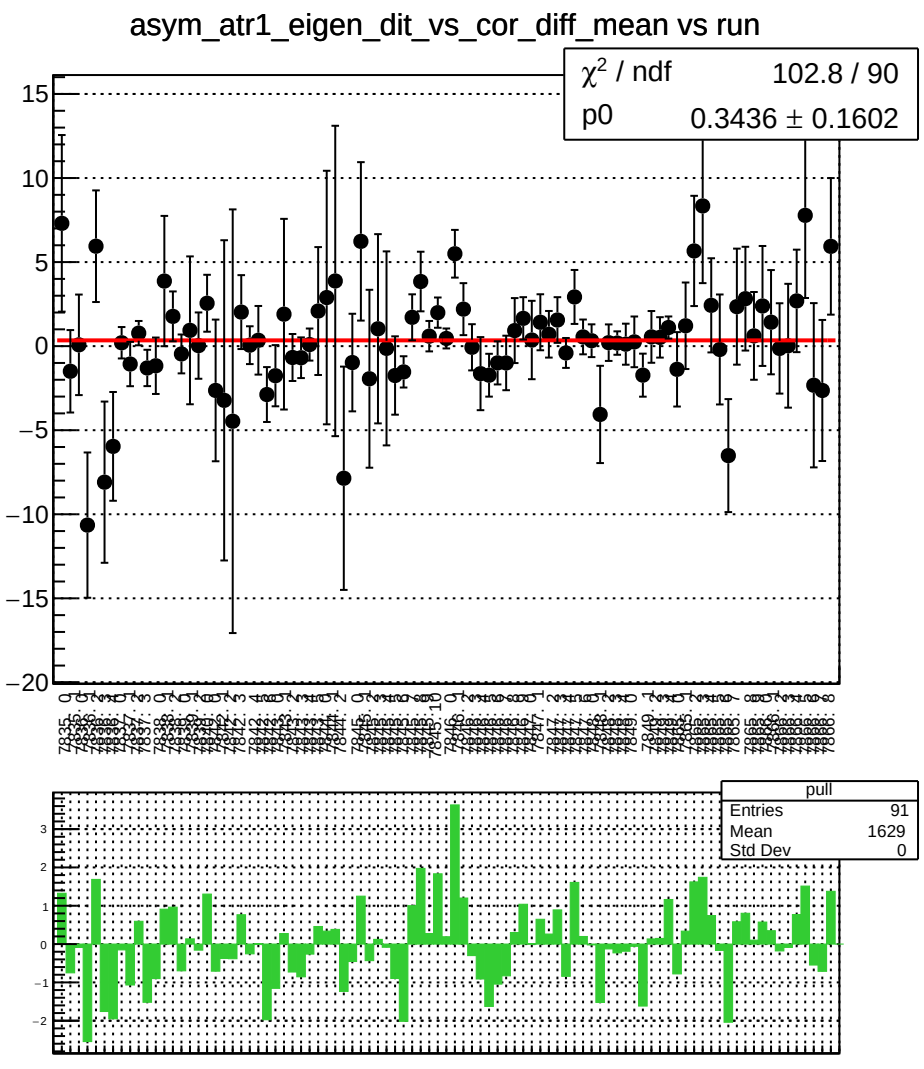

pull1D
Entries 91
Mean 0.00357
Std Dev 1.063

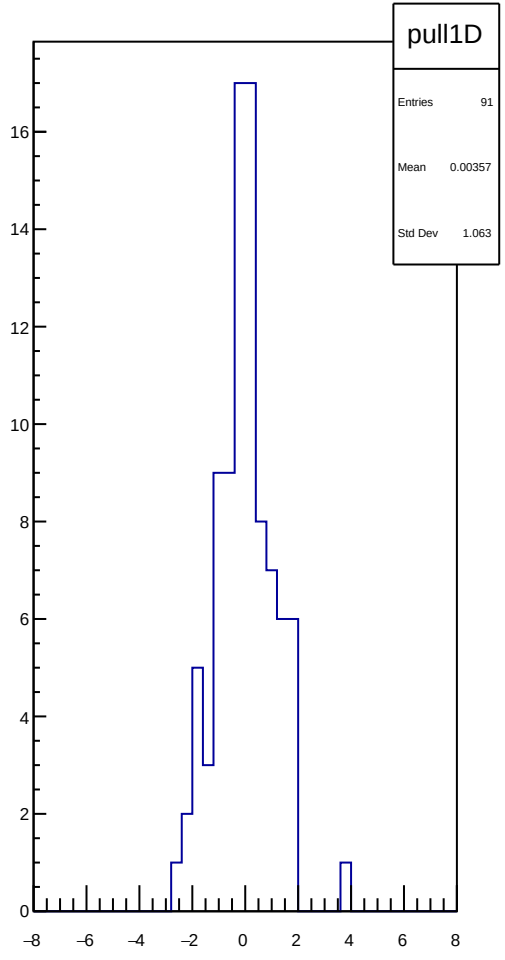

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.852e+05 / 90
p0 127.6 ± 0.1133
1200
1000
800
600
400
200

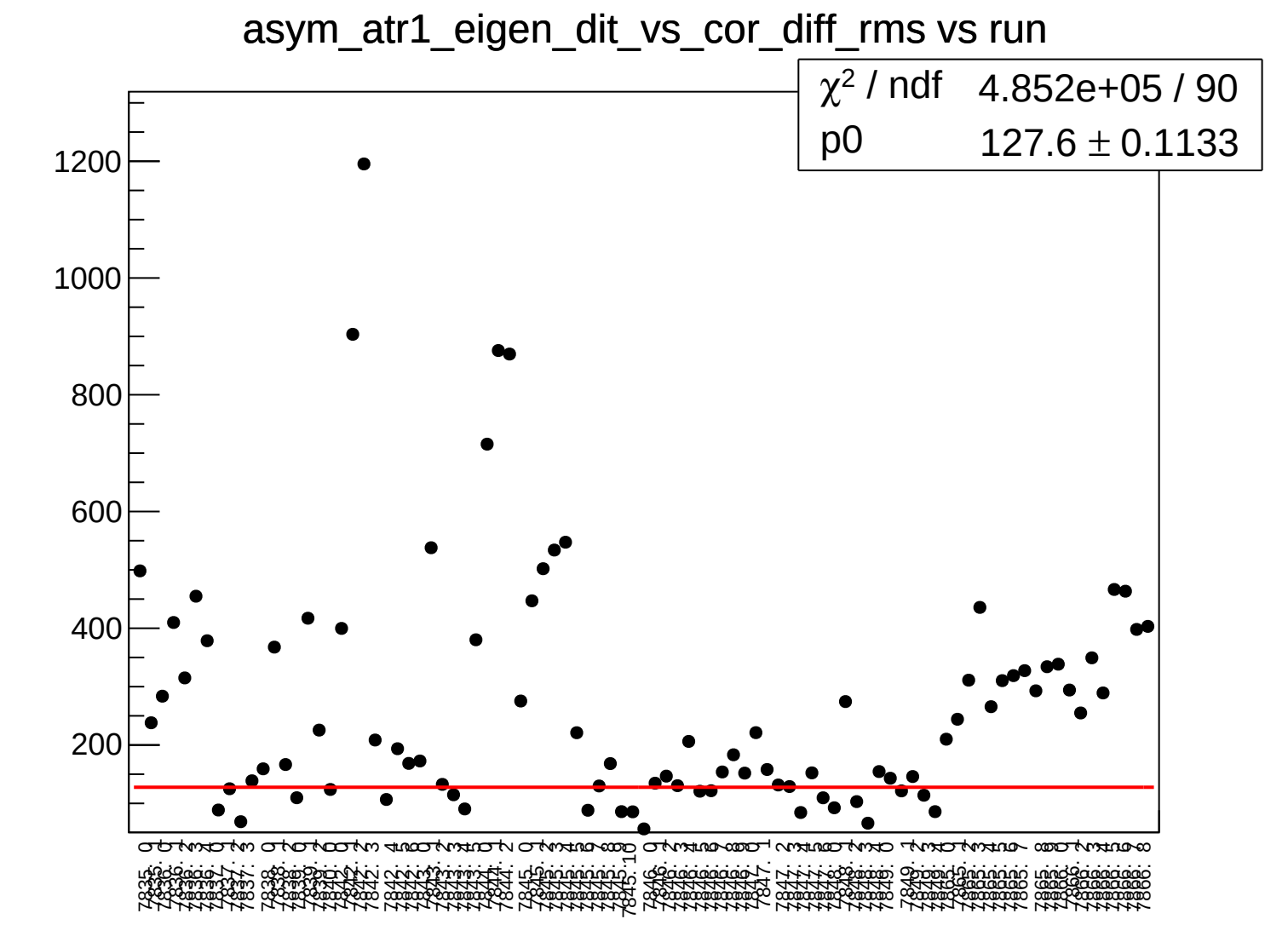

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.3 / 90
p0 −9.618e−06 ± 6.633e−06
pull
Entries 91
Mean −166.9
Std Dev 0

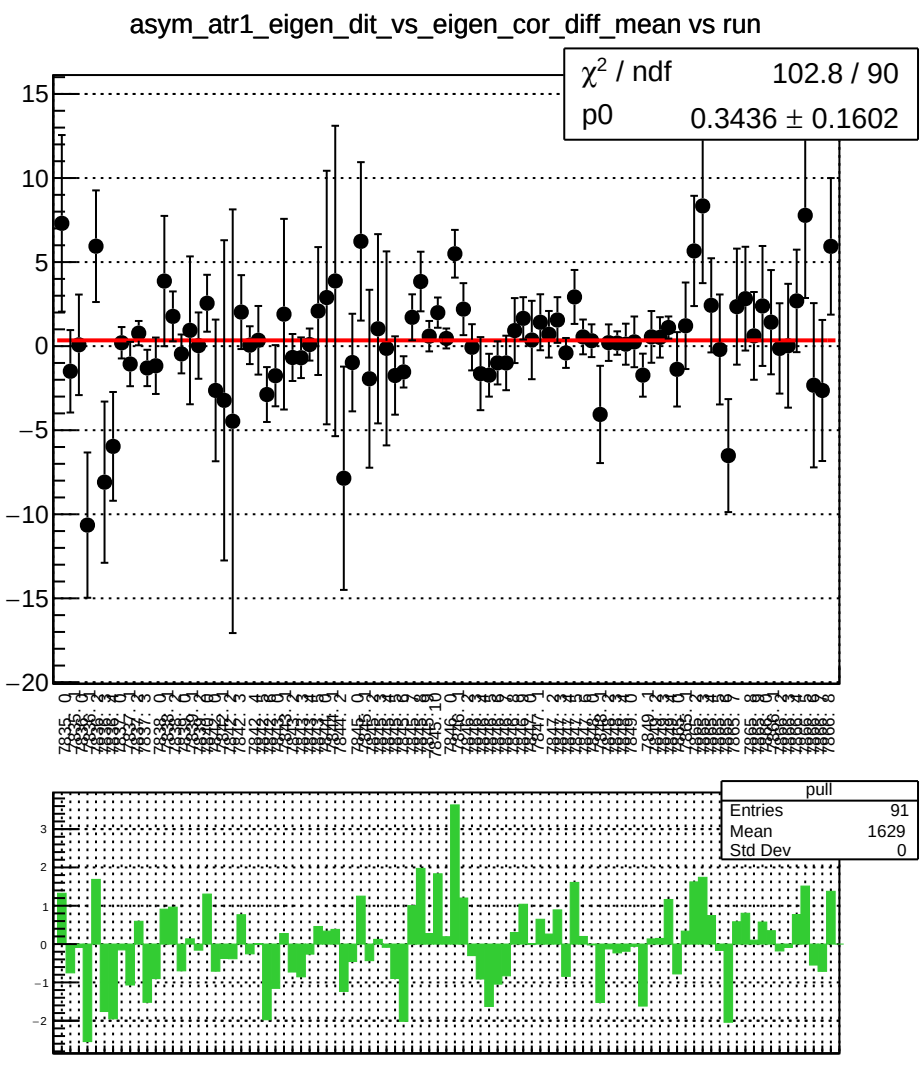

pull1D
Entries 91
Mean 0.009498
Std Dev 0.9567

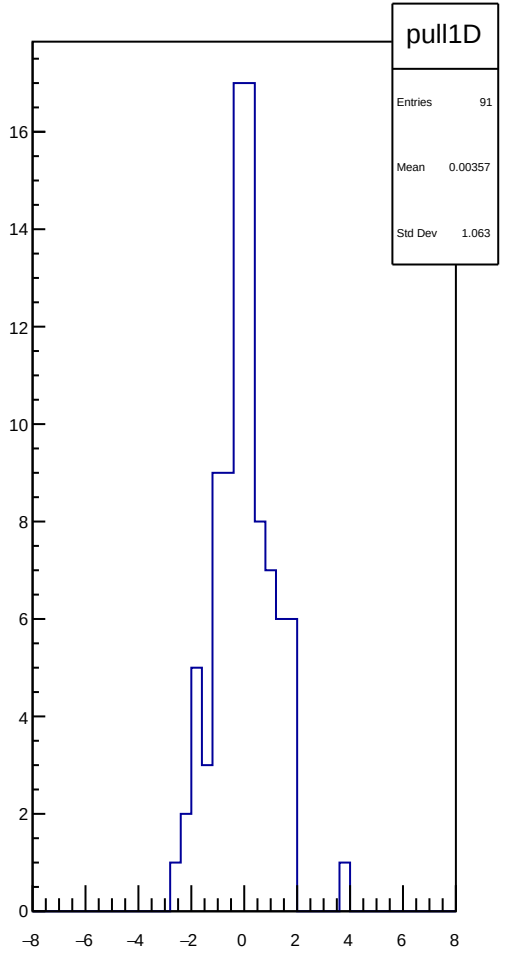

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 5.904e+04 / 90
p0 0.006109 ± 4.691e−06
0.014
0.012
0.01
0.008
0.006

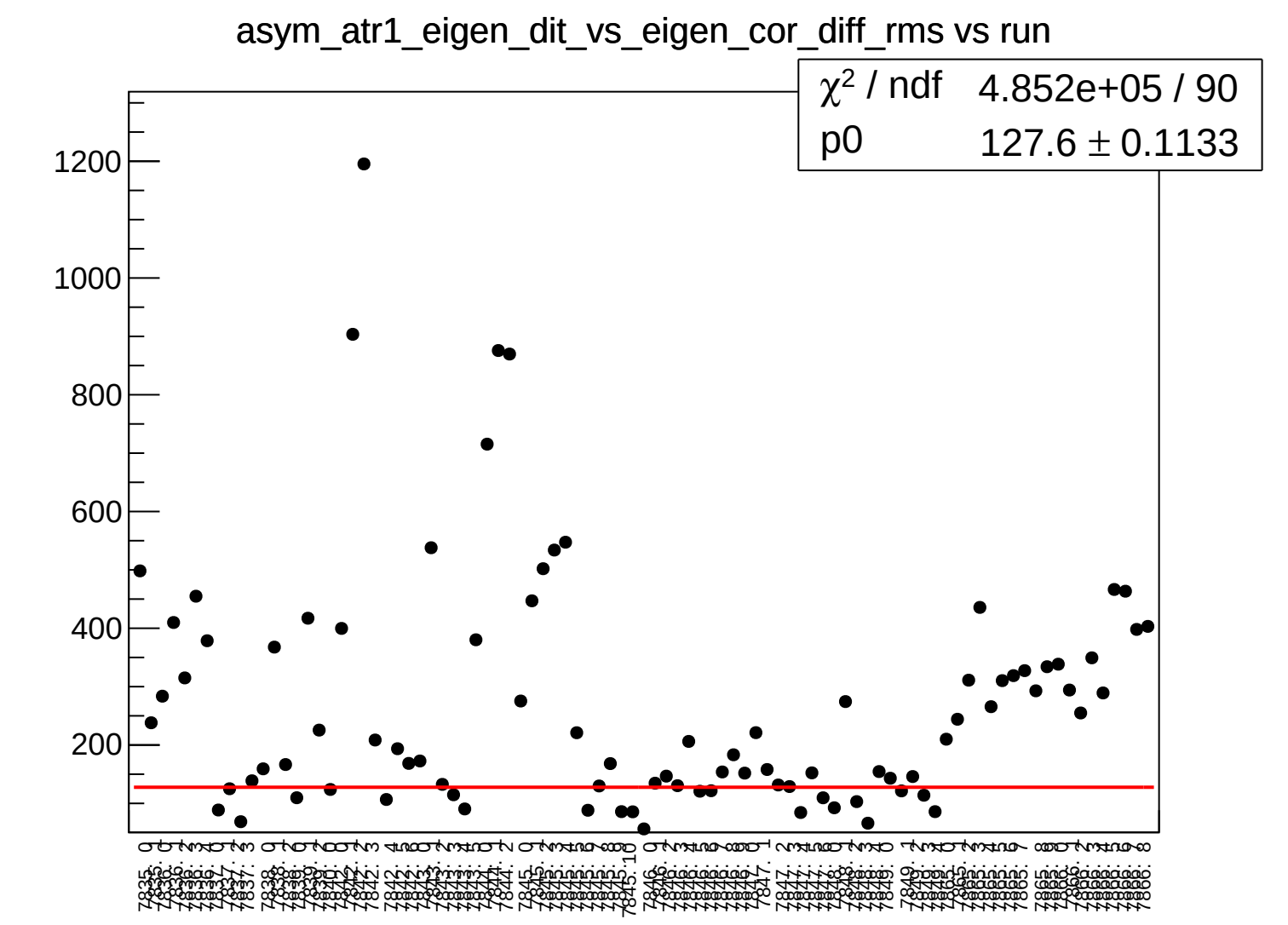

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.3436 ± 0.1602
pull
Entries 91
Mean 1629
Std Dev 0

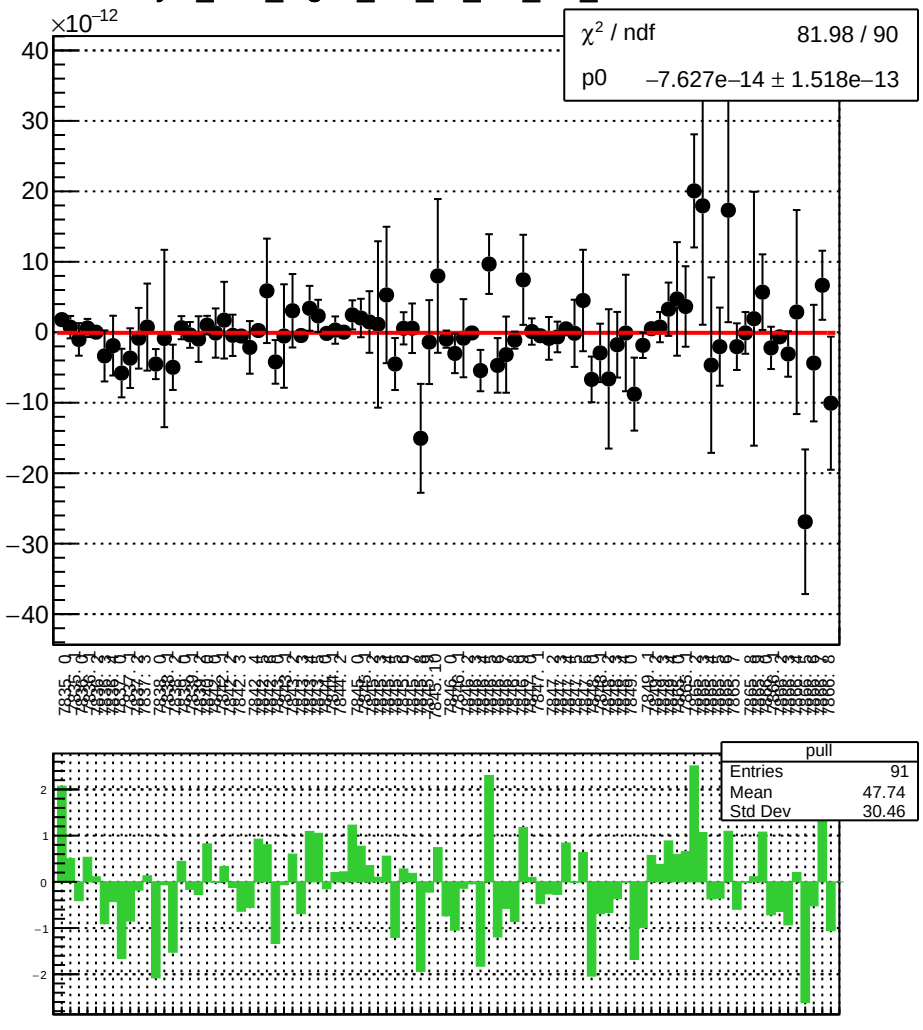

pull1D
Entries 91
Mean 0.00357
Std Dev 1.063

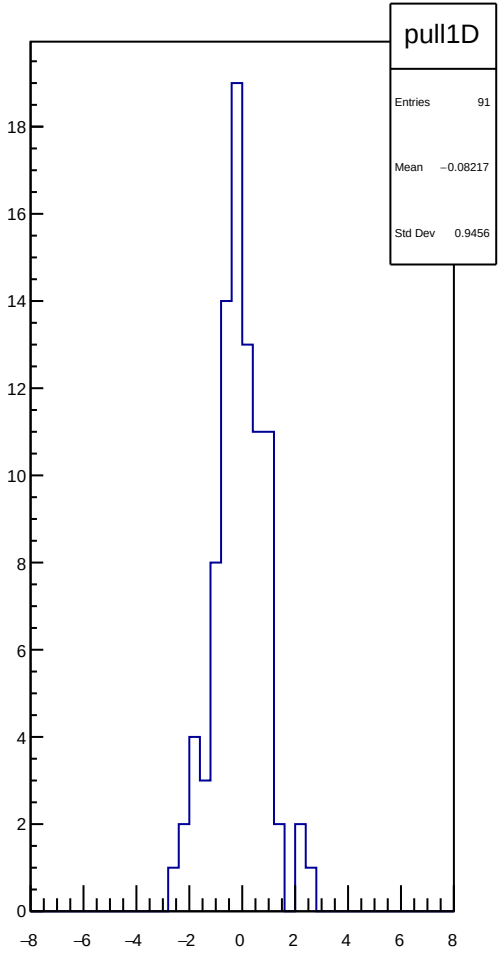

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.852e+05 / 90
p0 127.6 ± 0.1133
1200
1000
800
600
400
200

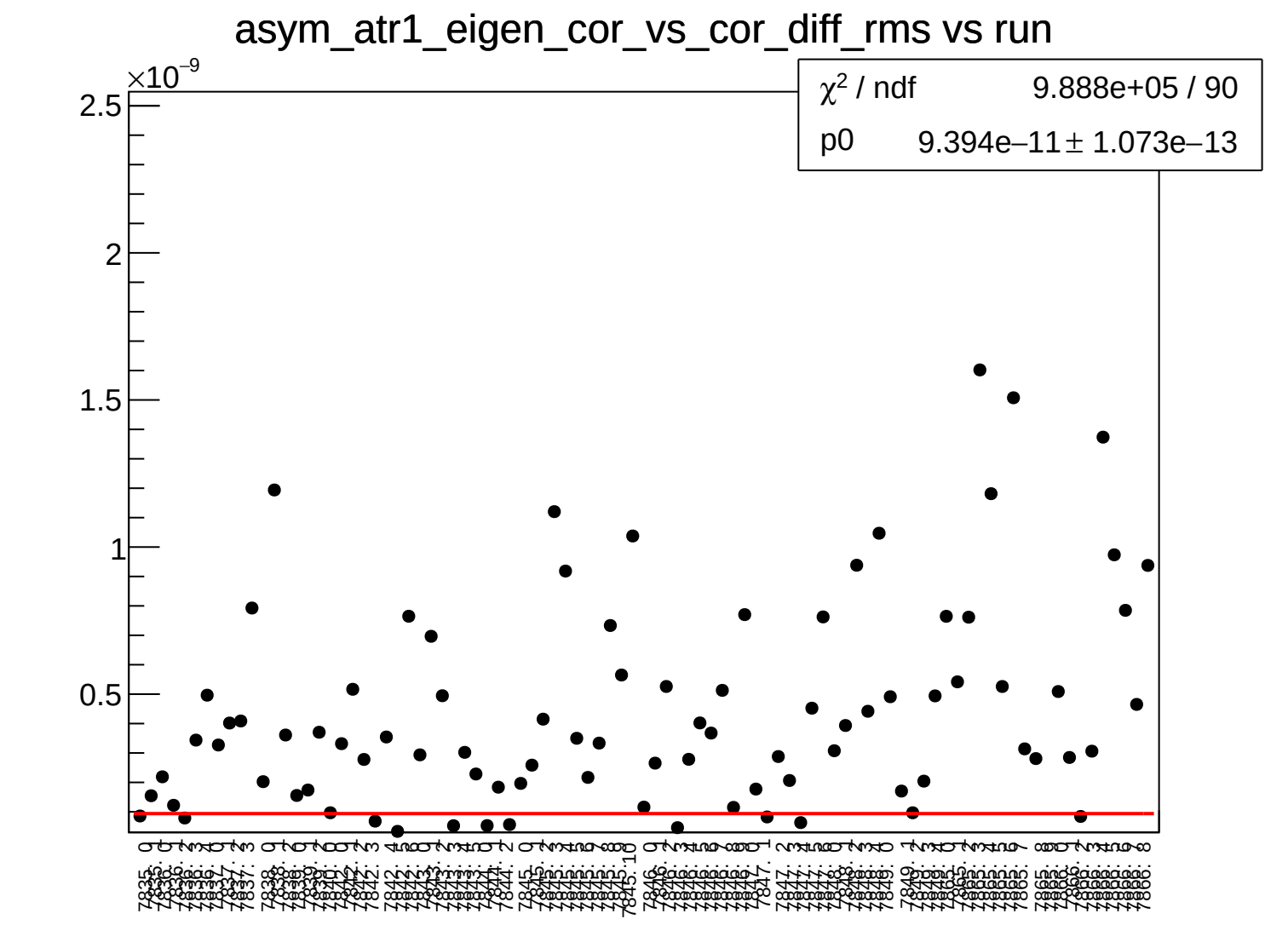

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.3436 ± 0.1602
pull
Entries 91
Mean 1629
Std Dev 0

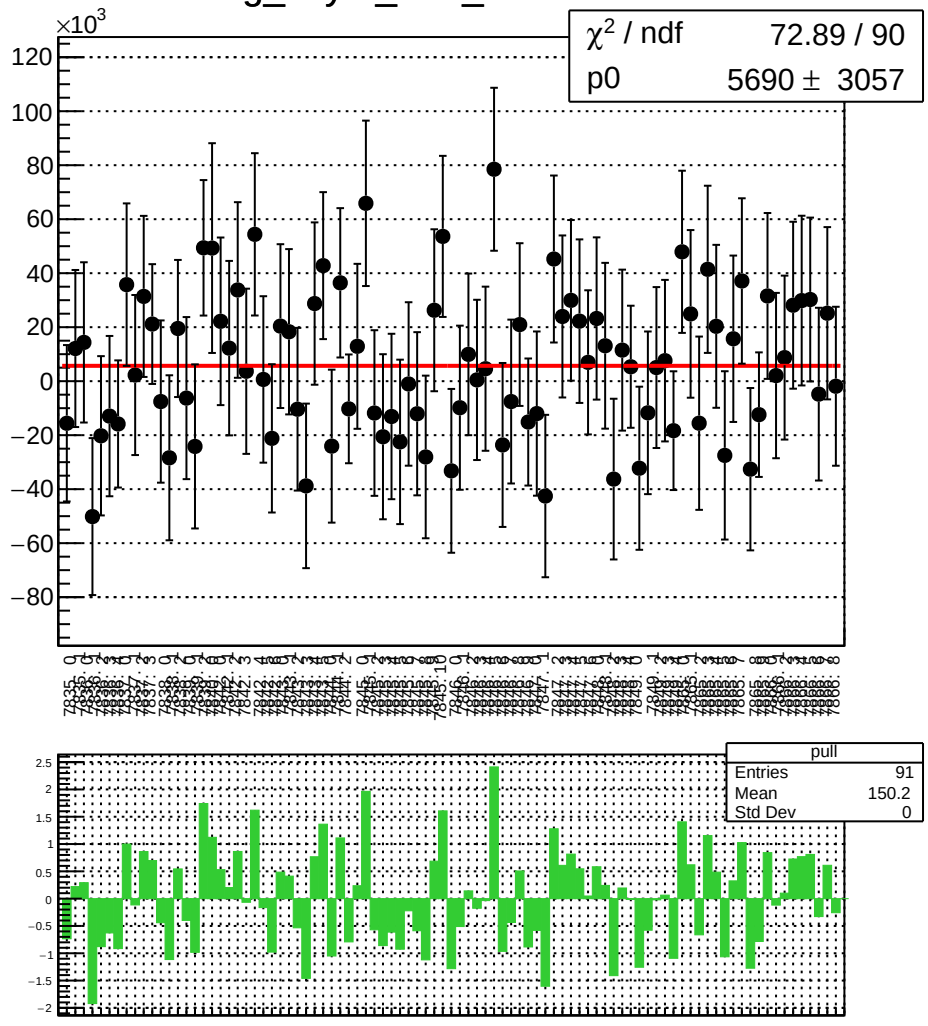

pull1D
Entries 91
Mean 0.00357
Std Dev 1.063

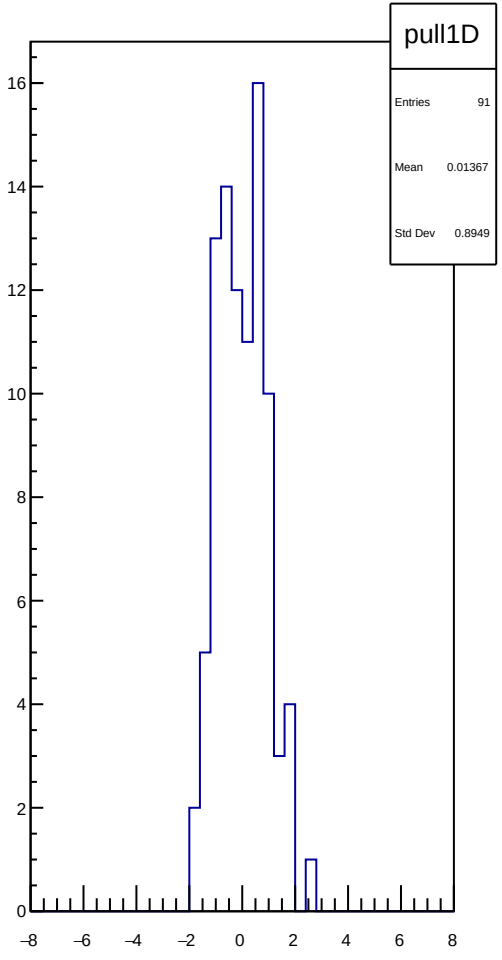

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.852e+05 / 90
p0 127.6 ± 0.1133
1200
1000
800
600
400
200

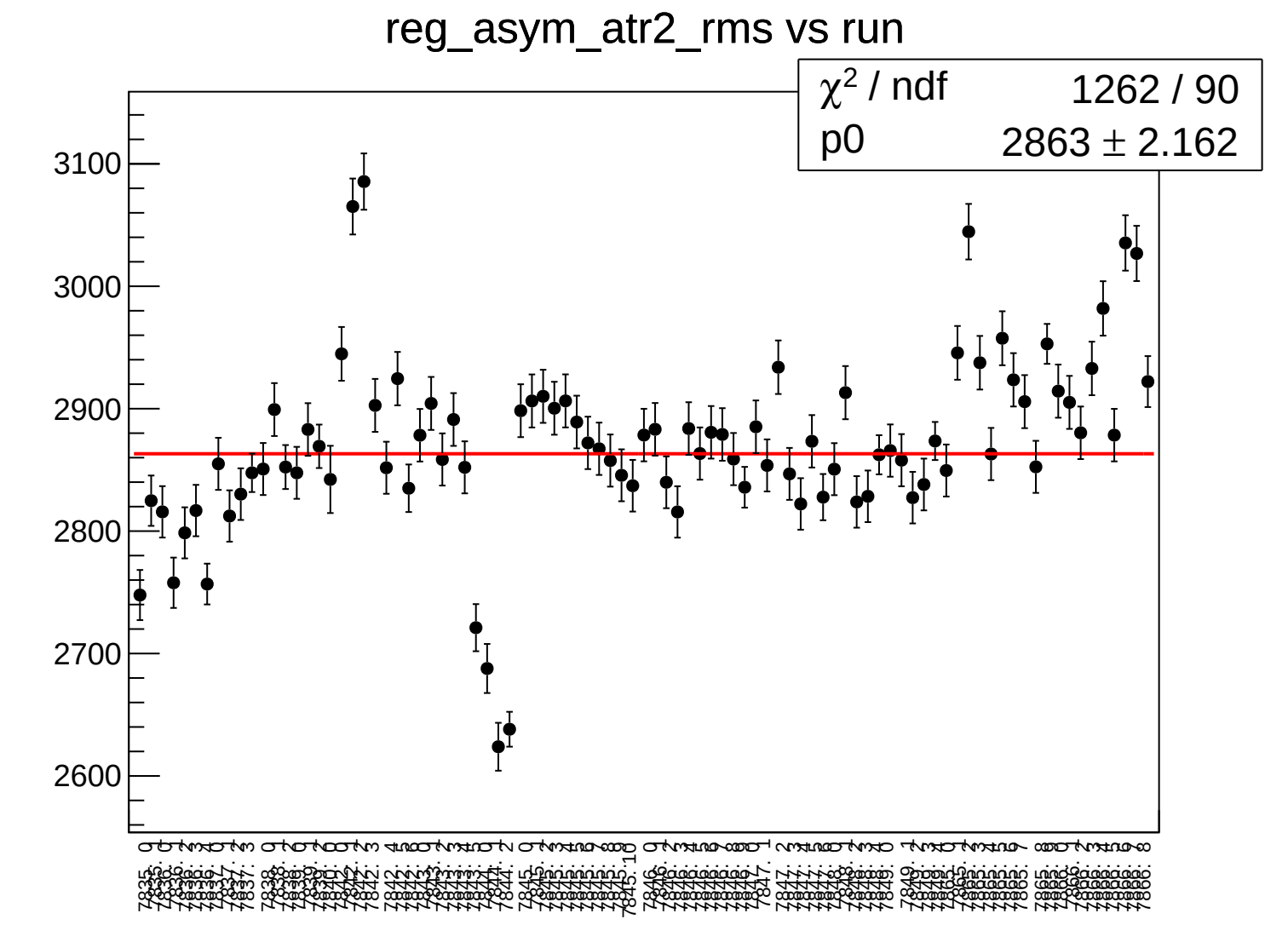

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.98 / 90
p0 −7.627e−14 ± 1.518e−13
pull
Entries 91
Mean 47.74
Std Dev 30.46

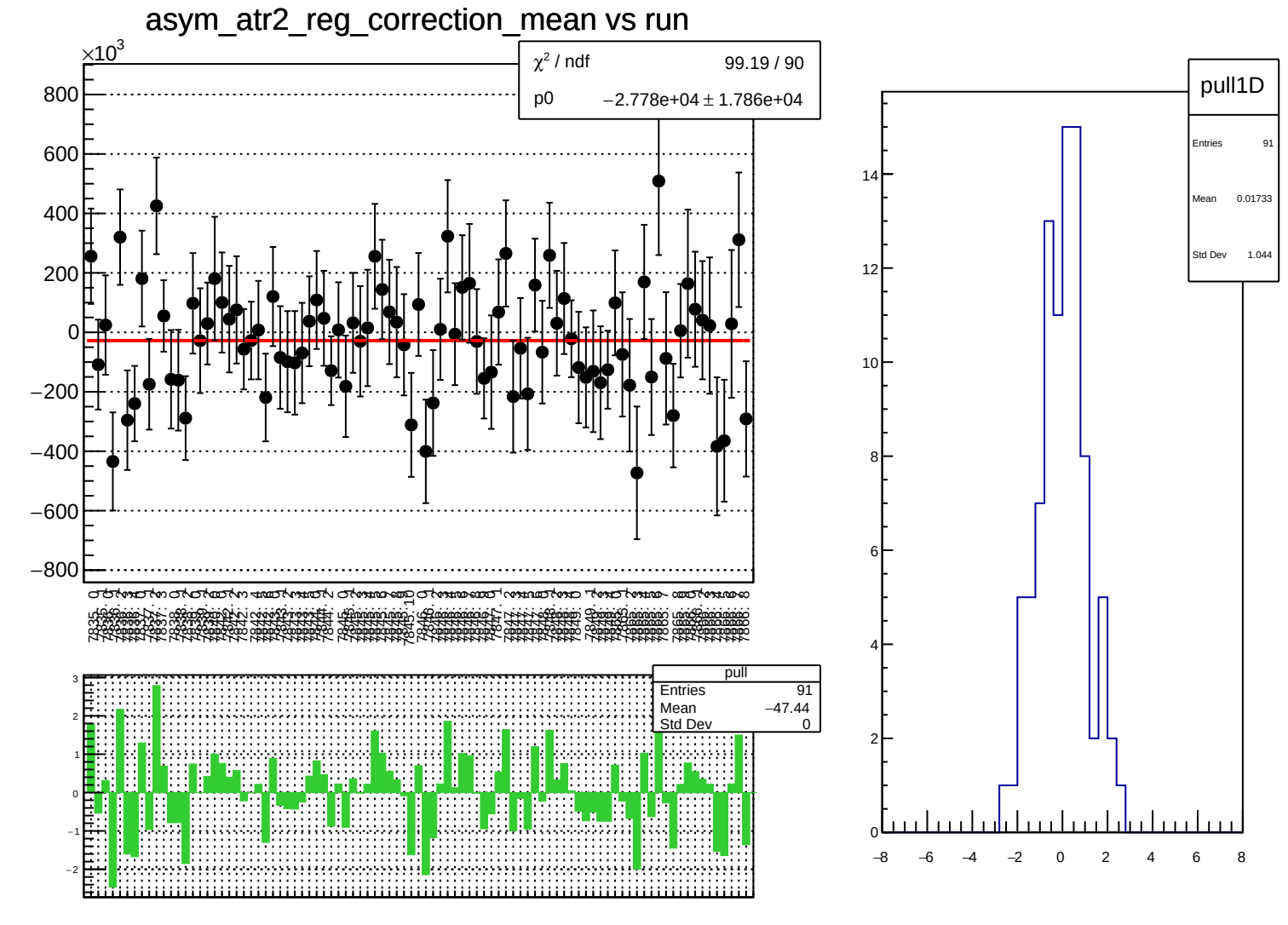

pull1D
Entries 91
Mean −0.08217
Std Dev 0.9456

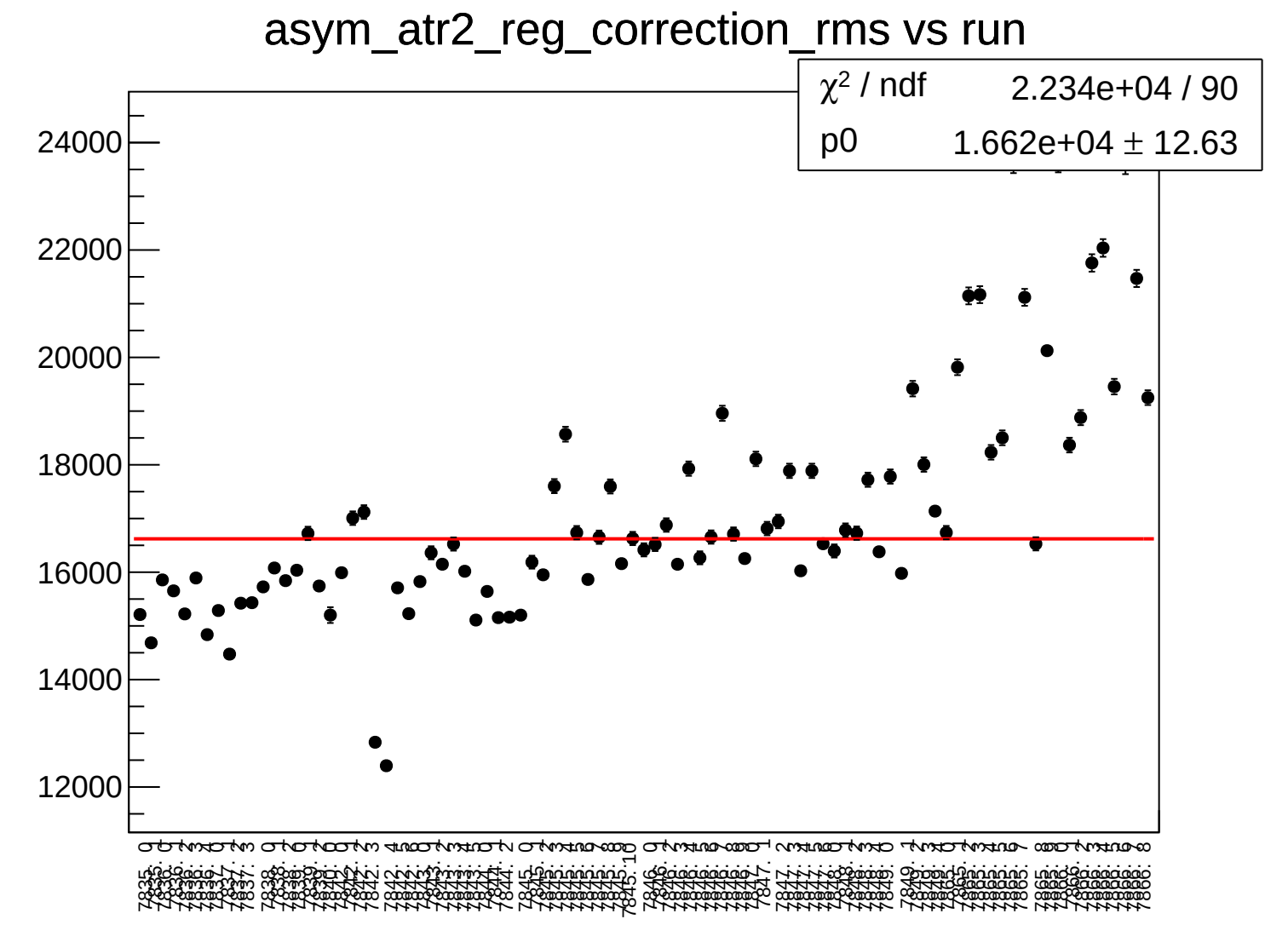

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 9.888e+05 / 90
p0 9.394e−11 ± 1.073e−13

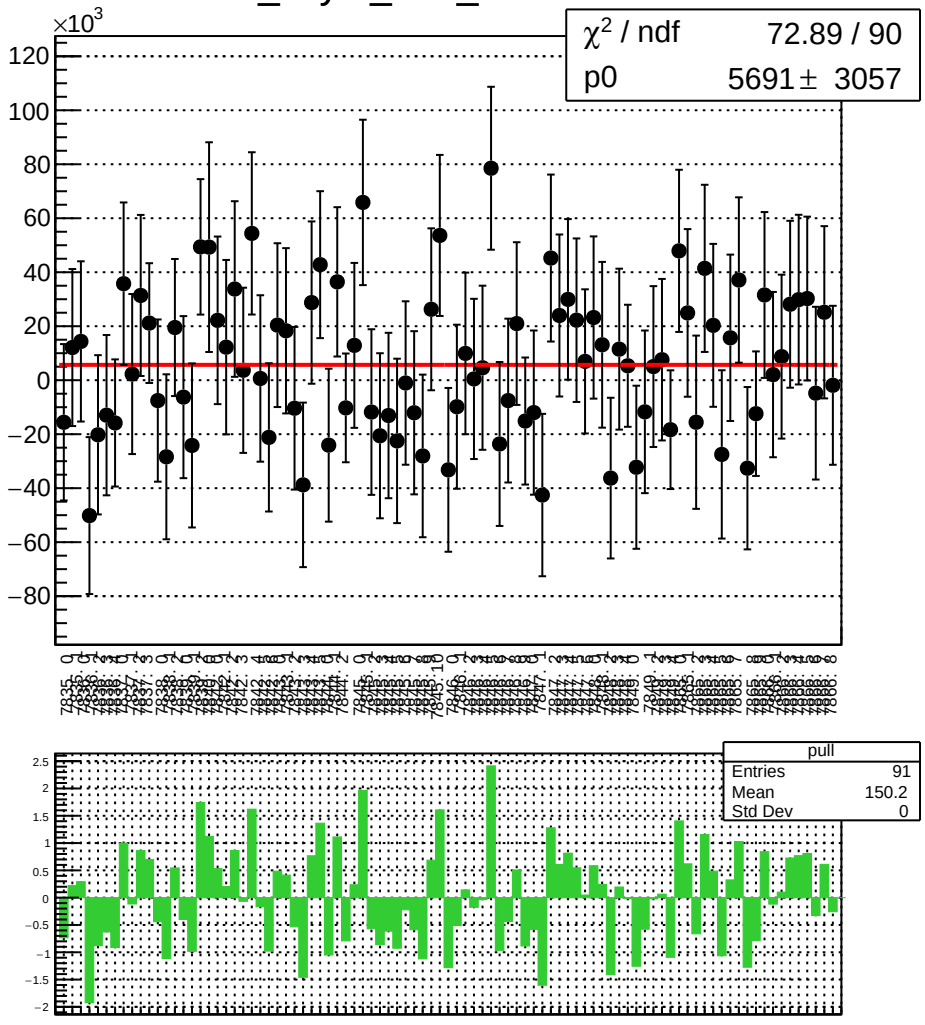

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 72.89 / 90
p0 5690 ± 3057
pull
Entries 91
Mean 150.2
Std Dev 0

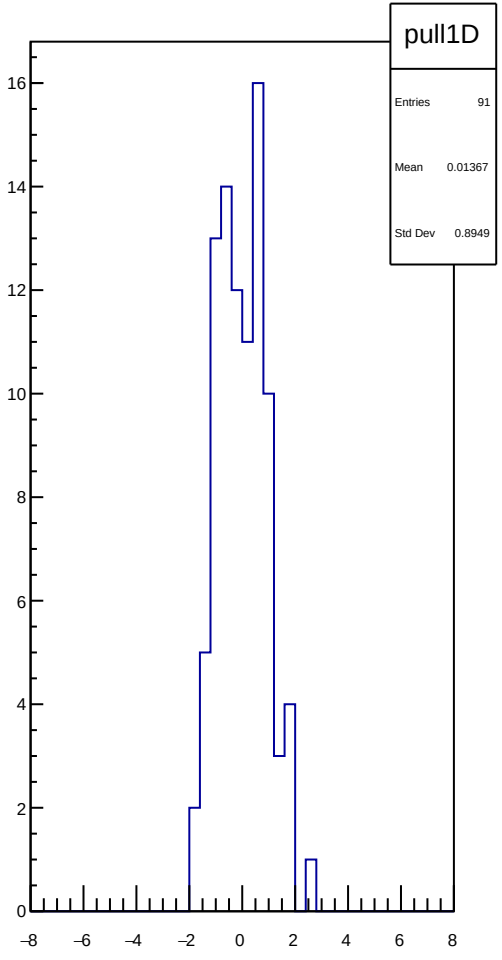

pull1D
Entries 91
Mean 0.01367
Std Dev 0.8949

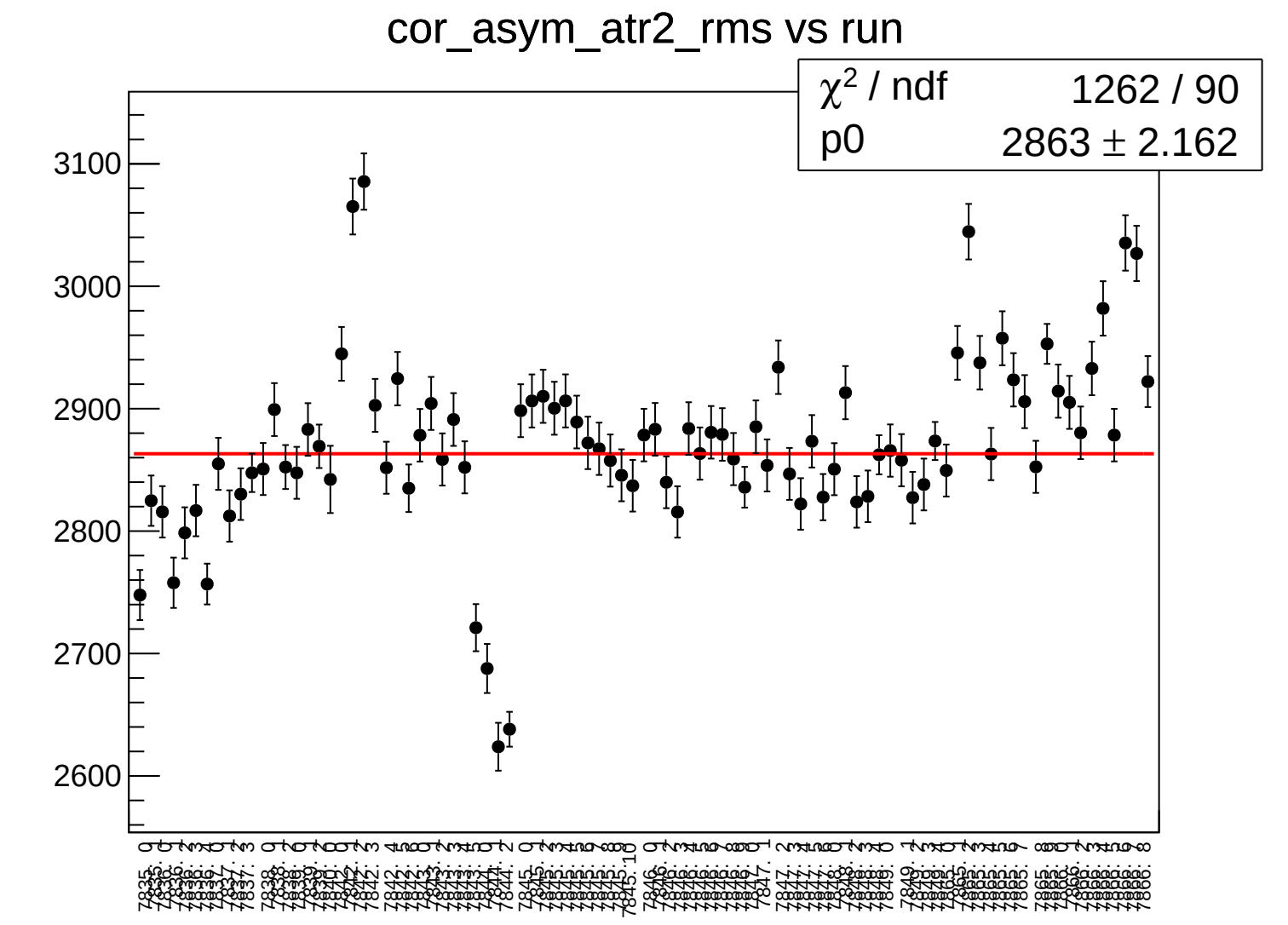

reg_asym_atr2_rms vs run
χ² / ndf 1262 / 90
p0 2863 ± 2.162
3100
3000
2900
2800
2700
2600

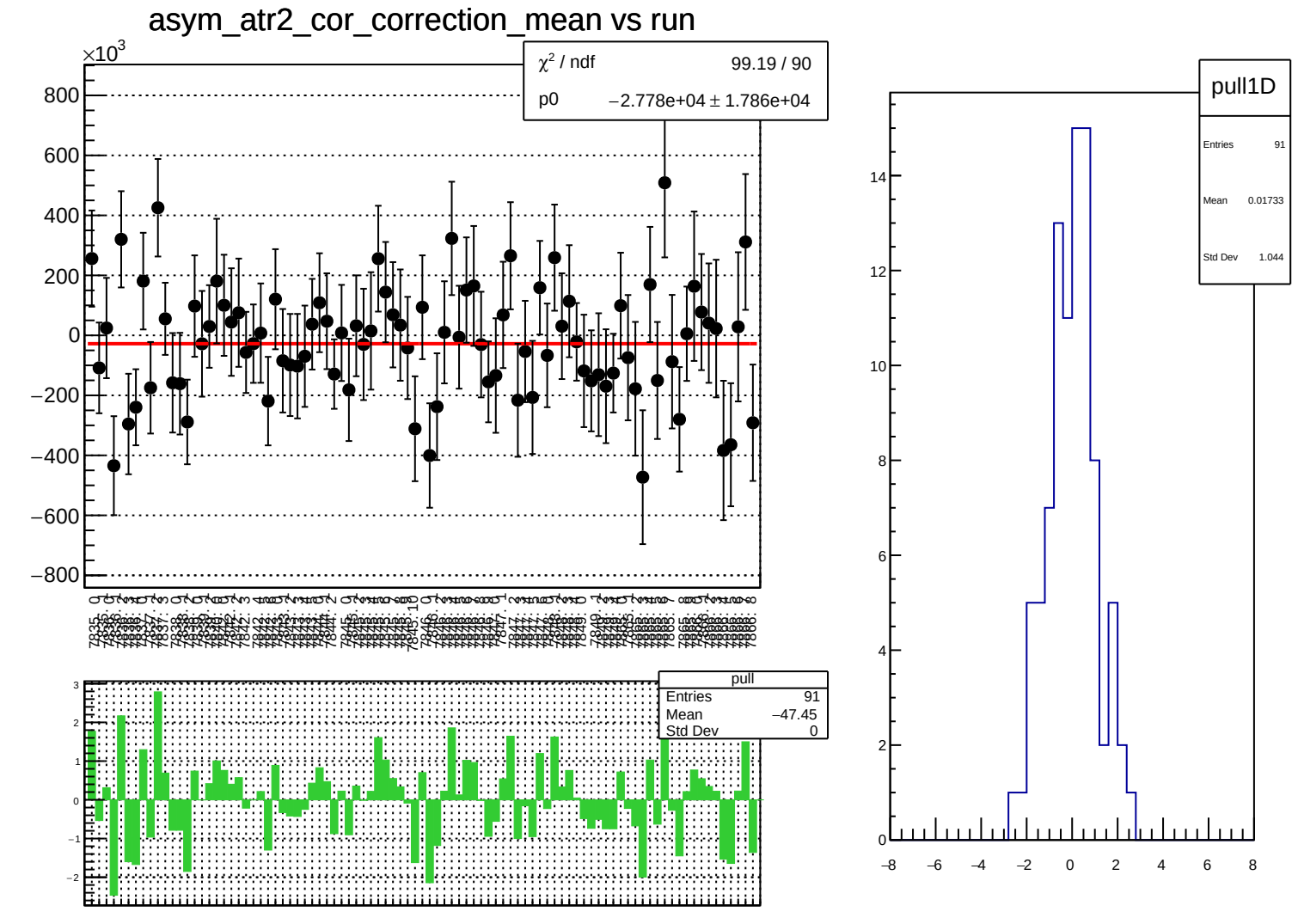

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 99.19 / 90
p0 −2.778e+04 ± 1.786e+04
pull
Entries 91
Mean −47.44
Std Dev 0
pull1D
Entries 91
Mean 0.01733
Std Dev 1.044

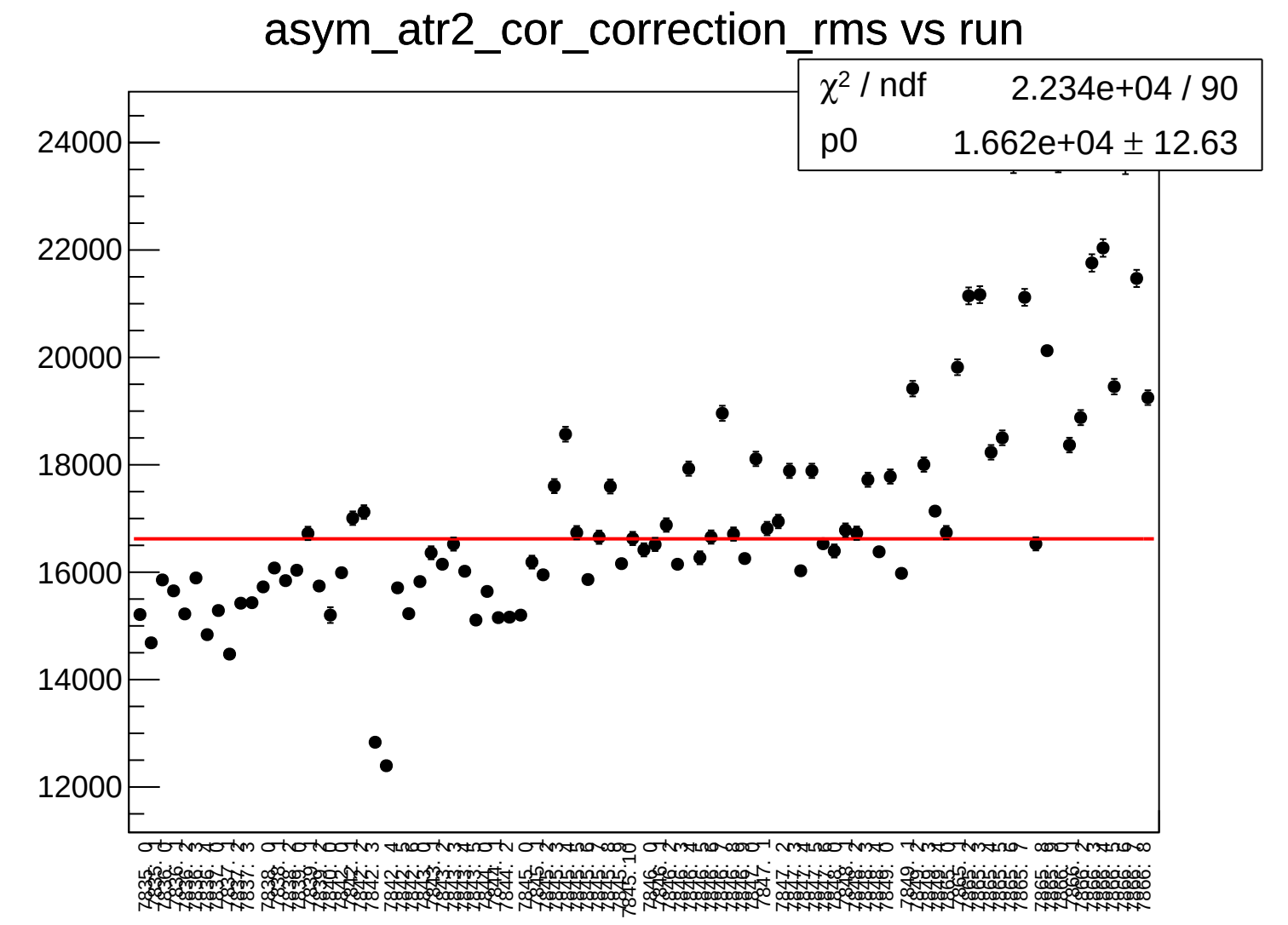

asym_atr2_reg_correction_rms vs run
χ² / ndf 2.234e+04 / 90
p0 1.662e+04 ± 12.63
24000
22000
20000
18000
16000
14000
12000

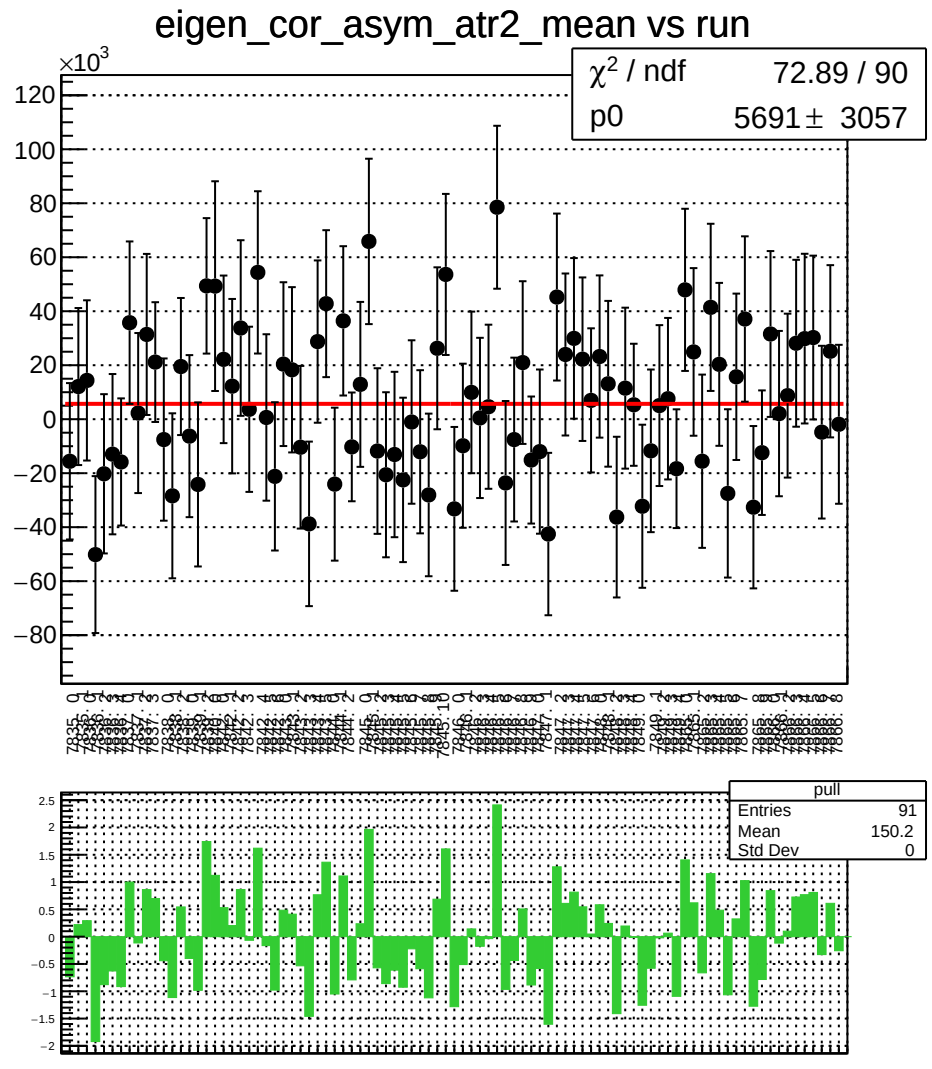

cor_asym_atr2_mean vs run
χ² / ndf 72.89 / 90
p0 5691 ± 3057
×10³
pull
Entries 91
Mean 150.2
Std Dev 0

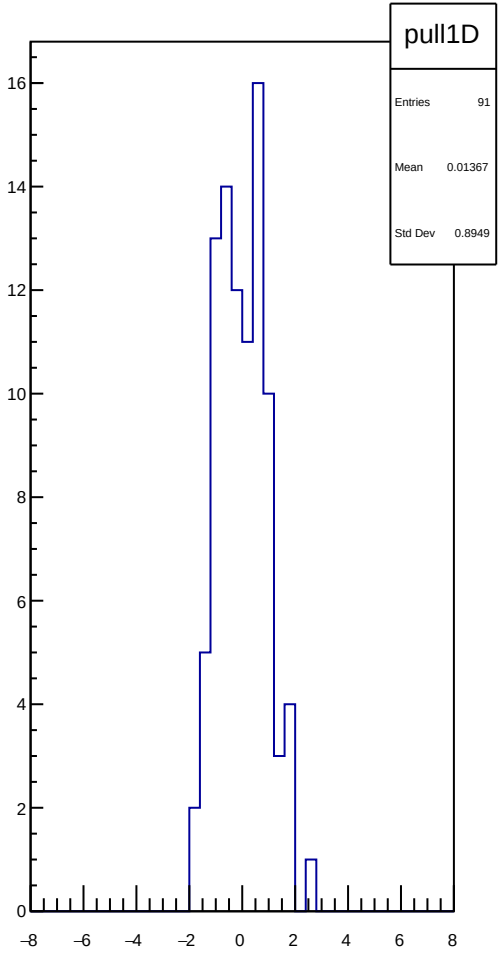

pull1D
Entries 91
Mean 0.01367
Std Dev 0.8949

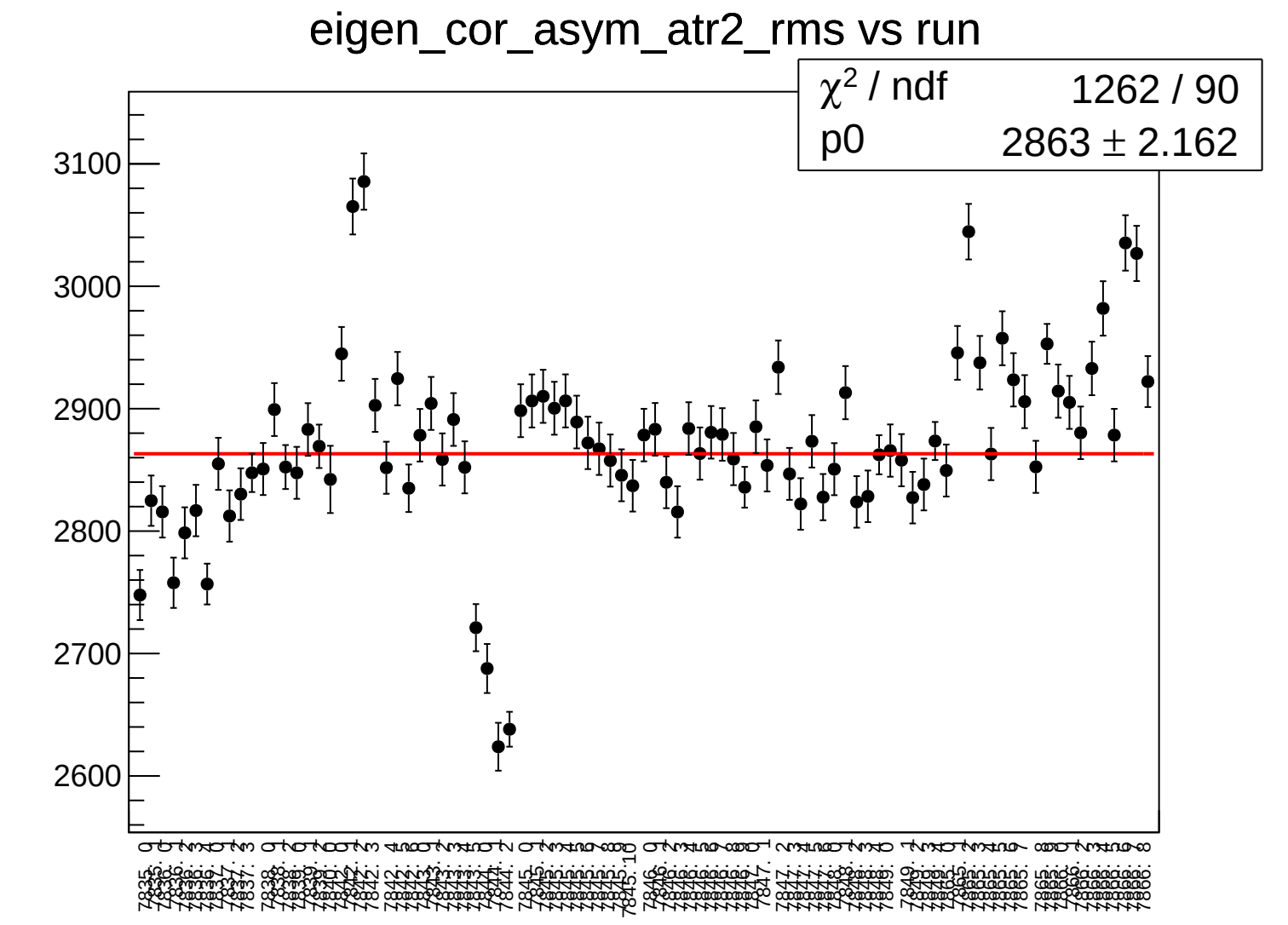

cor_asym_atr2_rms vs run
χ² / ndf 1262 / 90
p0 2863 ± 2.162
3100
3000
2900
2800
2700
2600

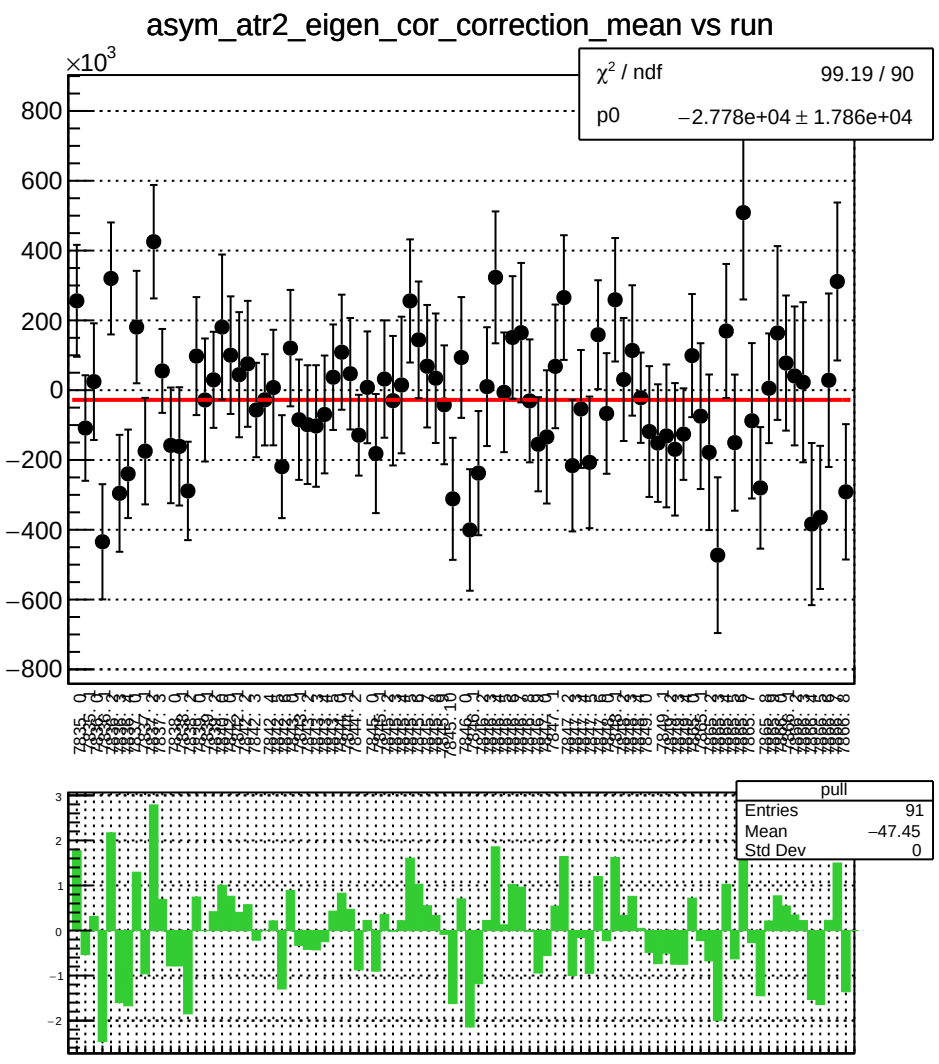

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 99.19 / 90
p0 −2.778e+04 ± 1.786e+04
pull
Entries 91
Mean −47.45
Std Dev 0
pull1D
Entries 91
Mean 0.01733
Std Dev 1.044

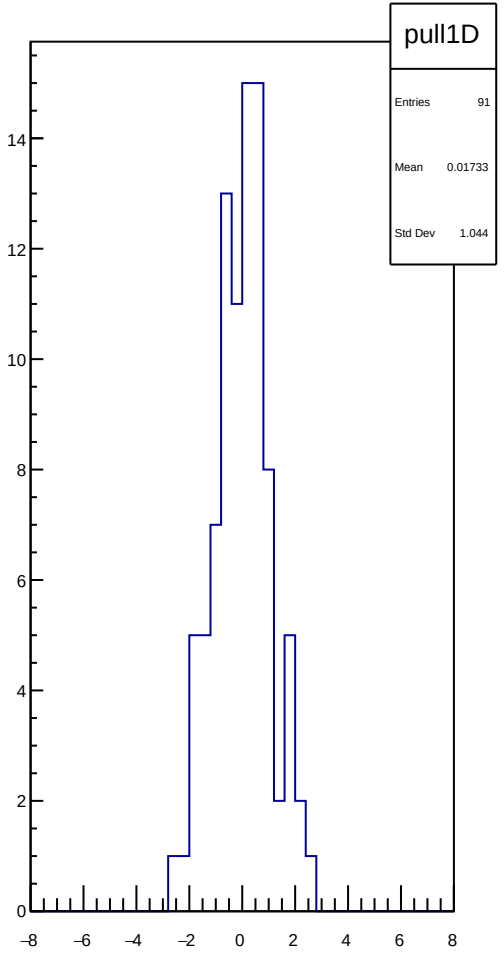

asym_atr2_cor_correction_rms vs run
χ² / ndf 2.234e+04 / 90
p0 1.662e+04 ± 12.63
24000
22000
20000
18000
16000
14000
12000

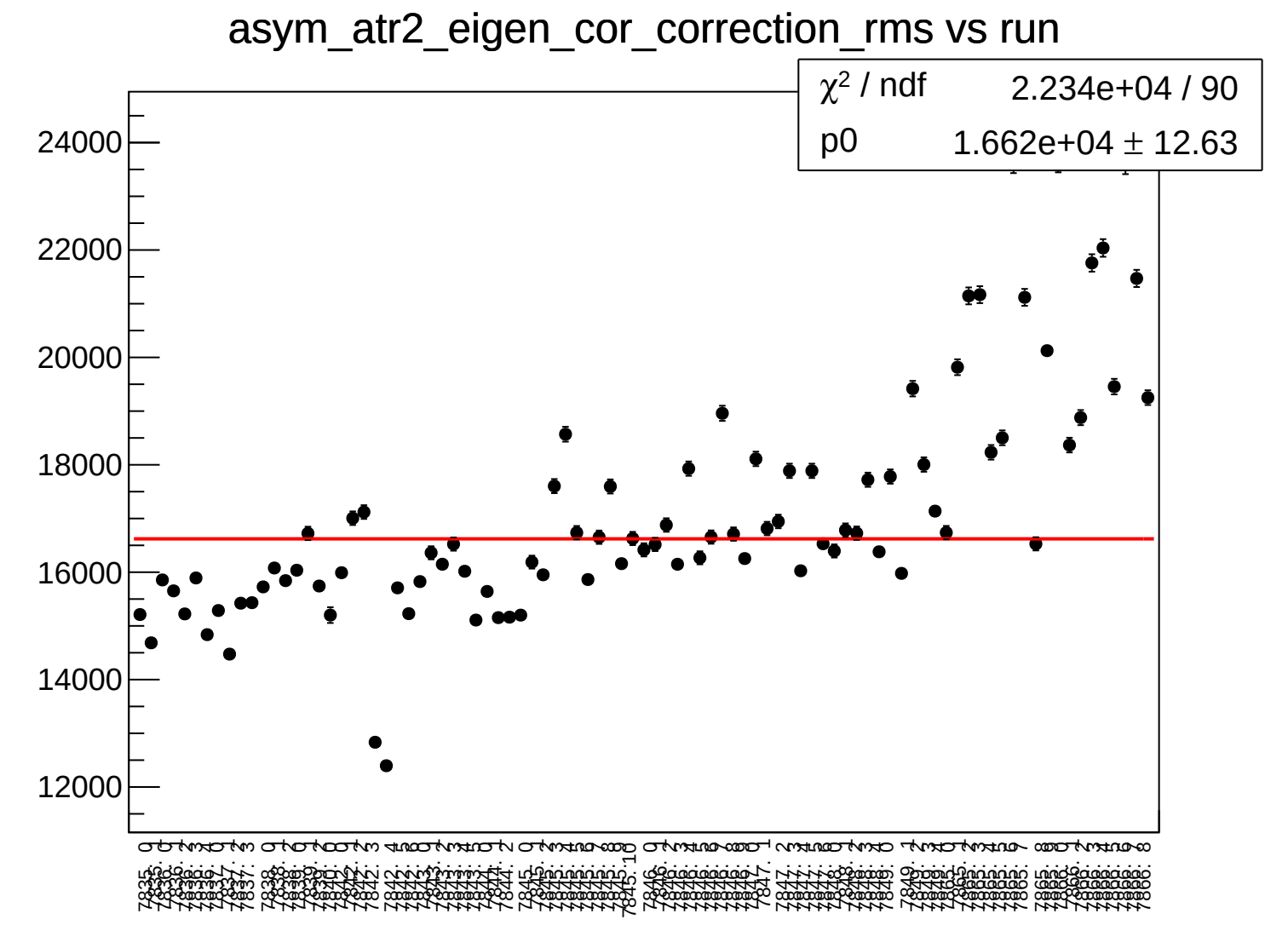

eigen_cor_asym_atr2_mean vs run
χ² / ndf 72.89 / 90
p0 5691 ± 3057
×10³
pull
Entries 91
Mean 150.2
Std Dev 0

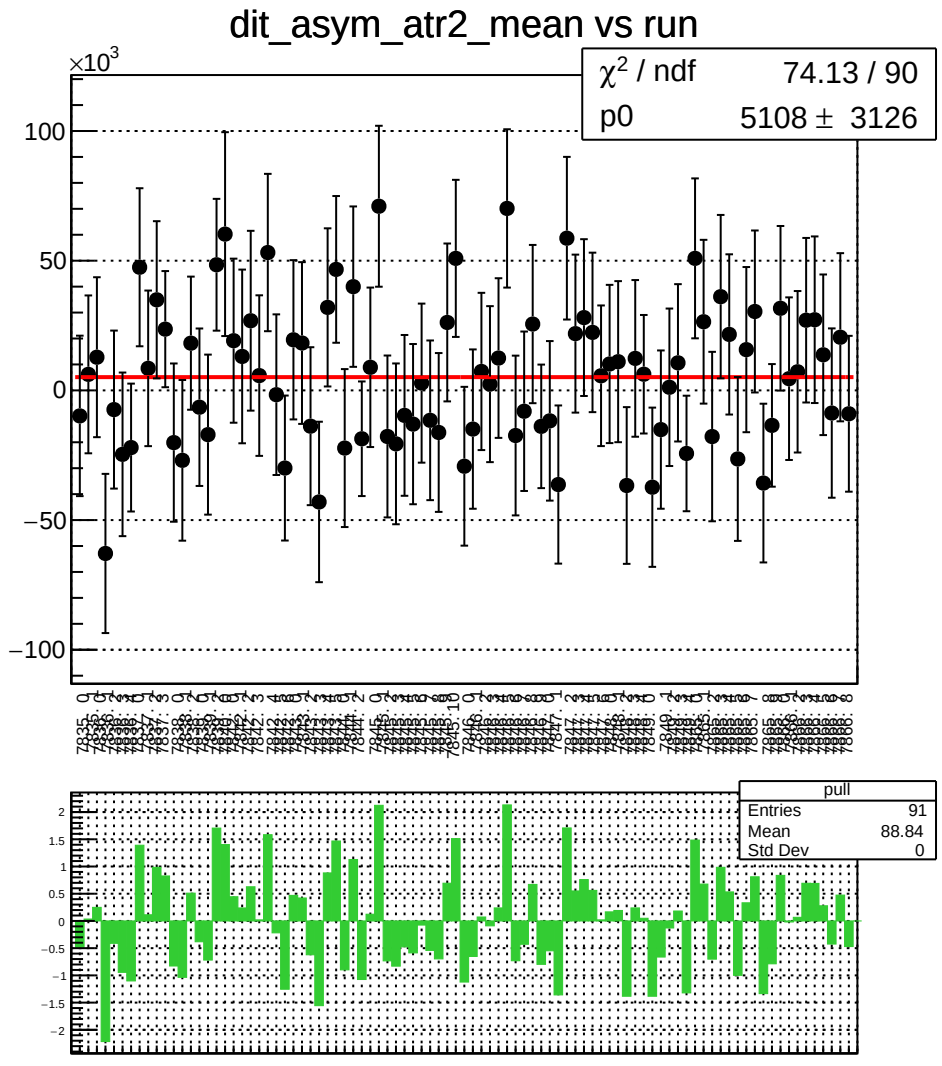

pull1D
Entries 91
Mean 0.01367
Std Dev 0.8949

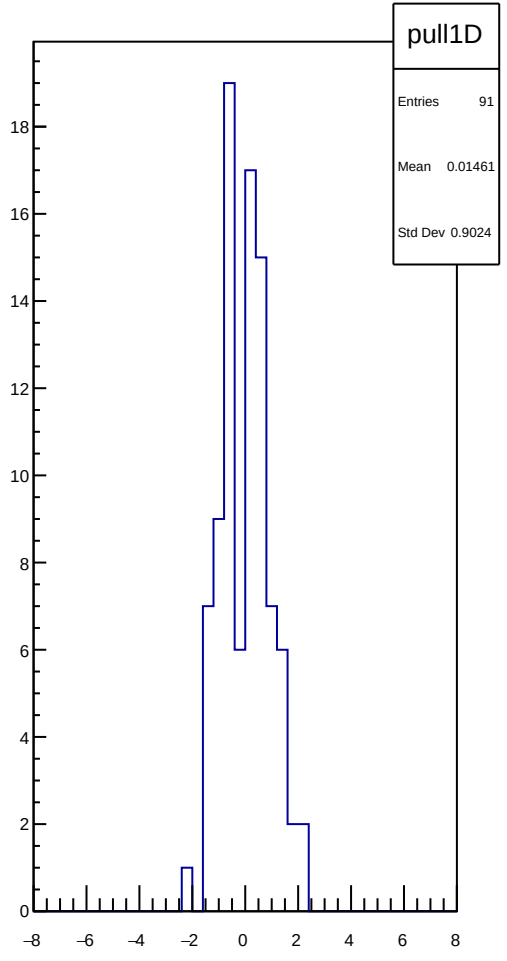

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1262 / 90
p0 2863 ± 2.162
3100
3000
2900
2800
2700
2600

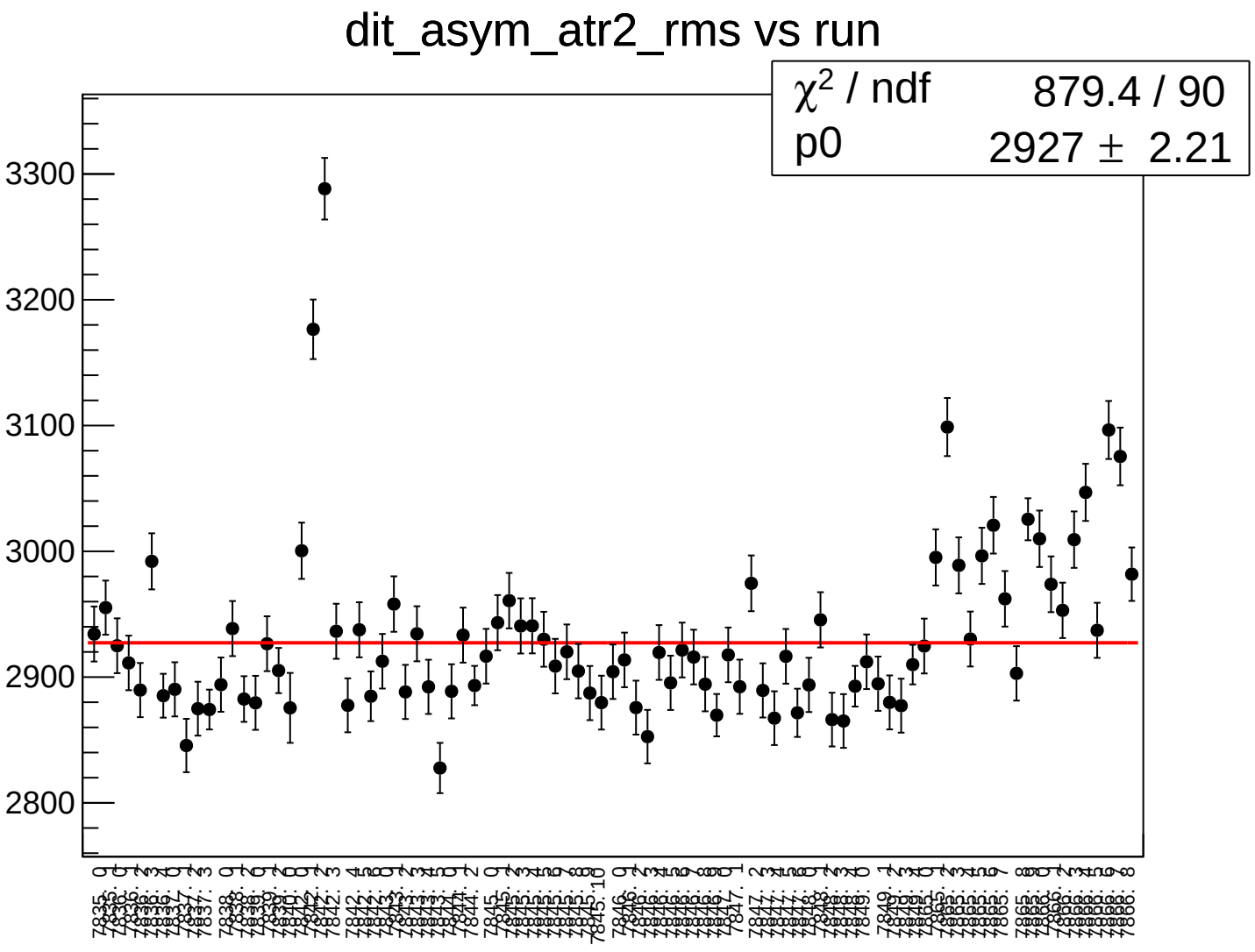

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.19 / 90
p0 −2.778e+04 ± 1.786e+04
pull
Entries 91
Mean −47.45
Std Dev 0

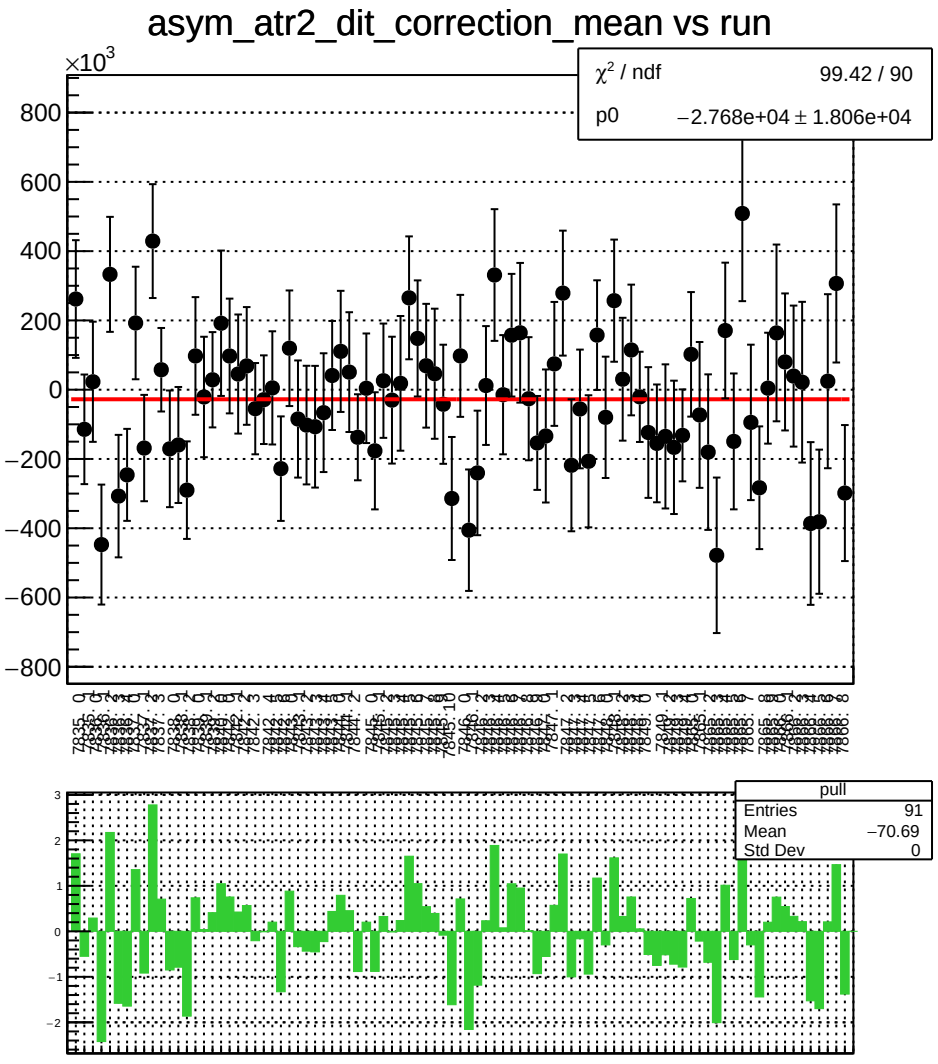

pull1D
Entries 91
Mean 0.01733
Std Dev 1.044

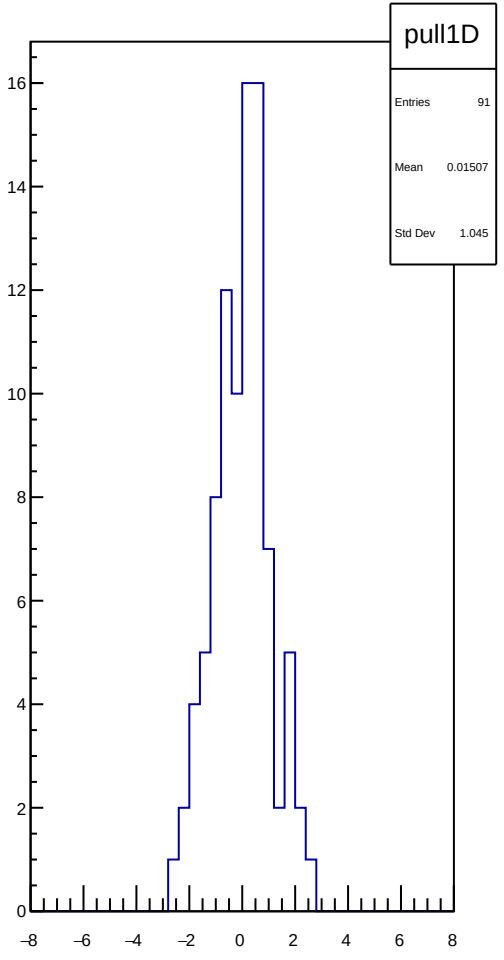

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2.234e+04 / 90
p0 1.662e+04 ± 12.63
24000
22000
20000
18000
16000
14000
12000


dit_asym_atr2_mean vs run
×10^3
χ² / ndf 74.13 / 90
p0 5108 ± 3126
100
50
0
−50
−100
pull
Entries 91
Mean 88.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

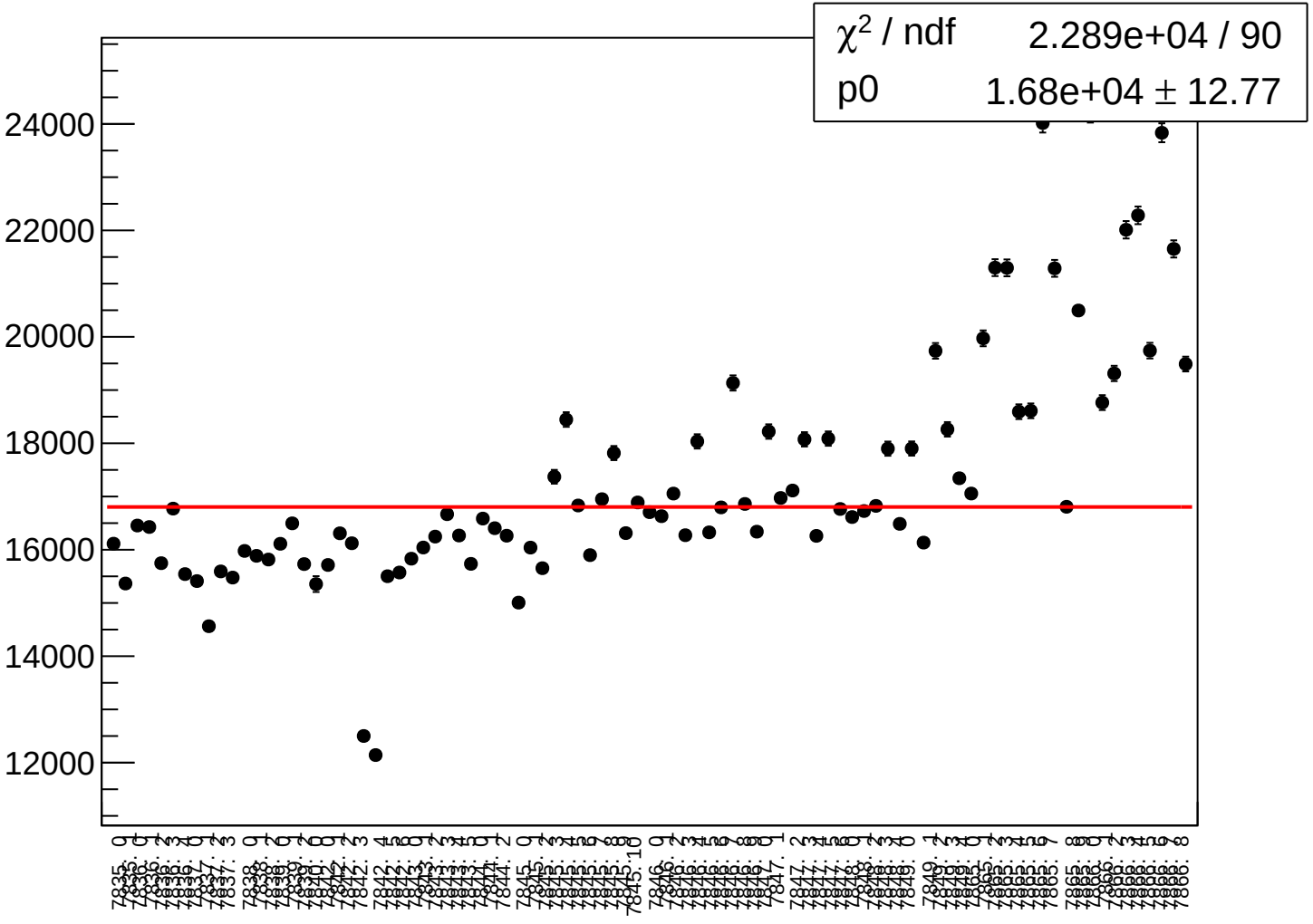

pull1D
Entries 91
Mean 0.01461
Std Dev 0.9024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

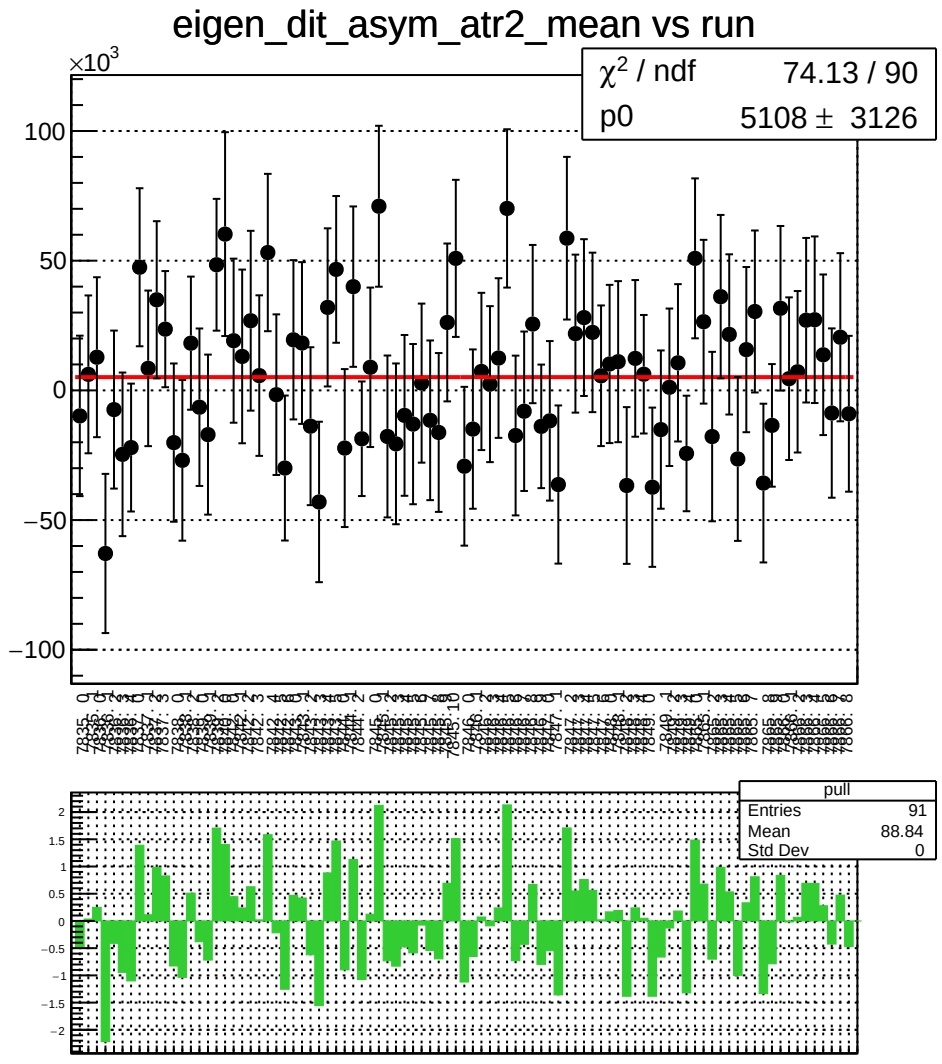

dit_asym_atr2_rms vs run
χ² / ndf 879.4 / 90
p0 2927 ± 2.21
3300
3200
3100
3000
2900
2800

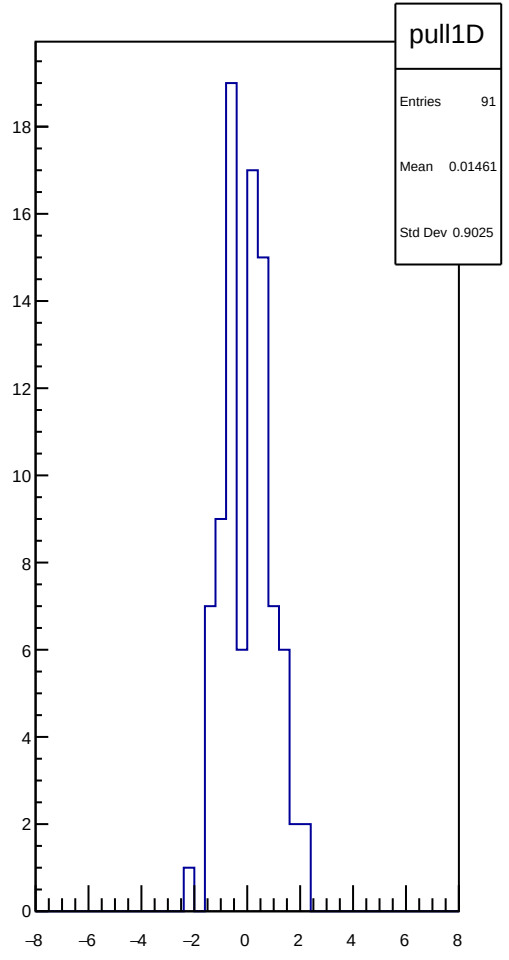

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 99.42 / 90
p0 −2.768e+04 ± 1.806e+04
pull
Entries 91
Mean −70.69
Std Dev 0

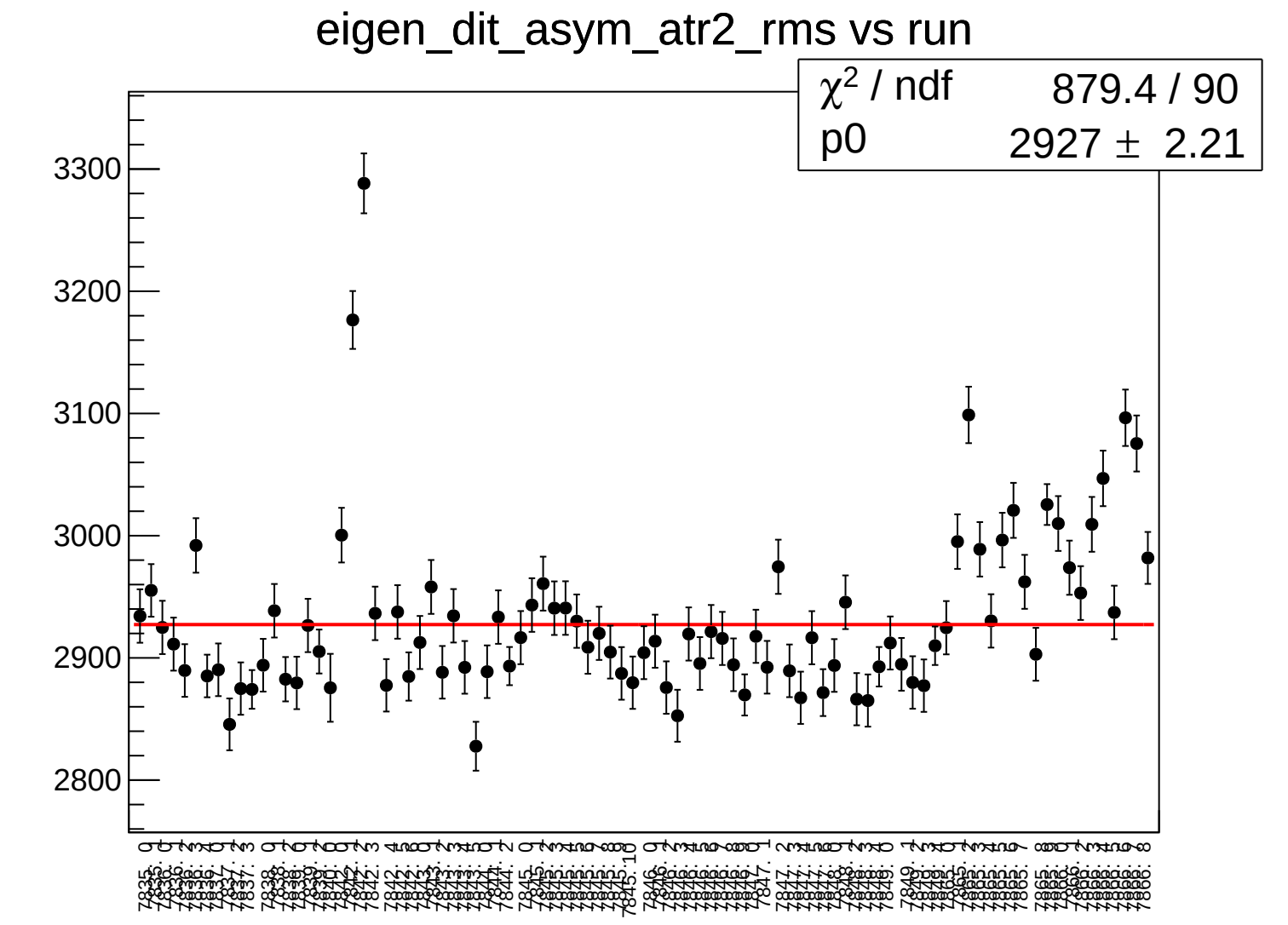

pull1D
Entries 91
Mean 0.01507
Std Dev 1.045

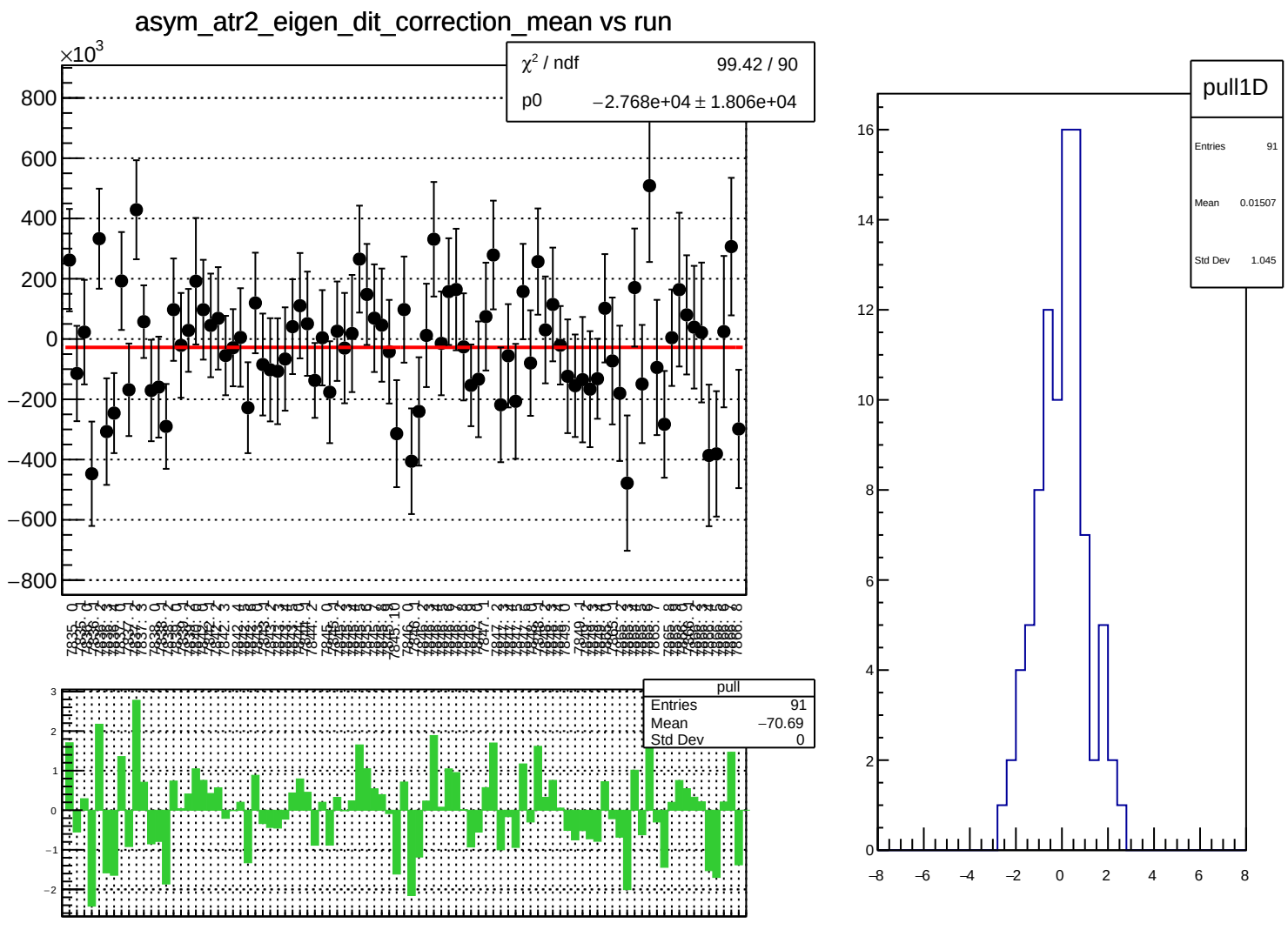
asym_atr2_dit_correction_rms vs run

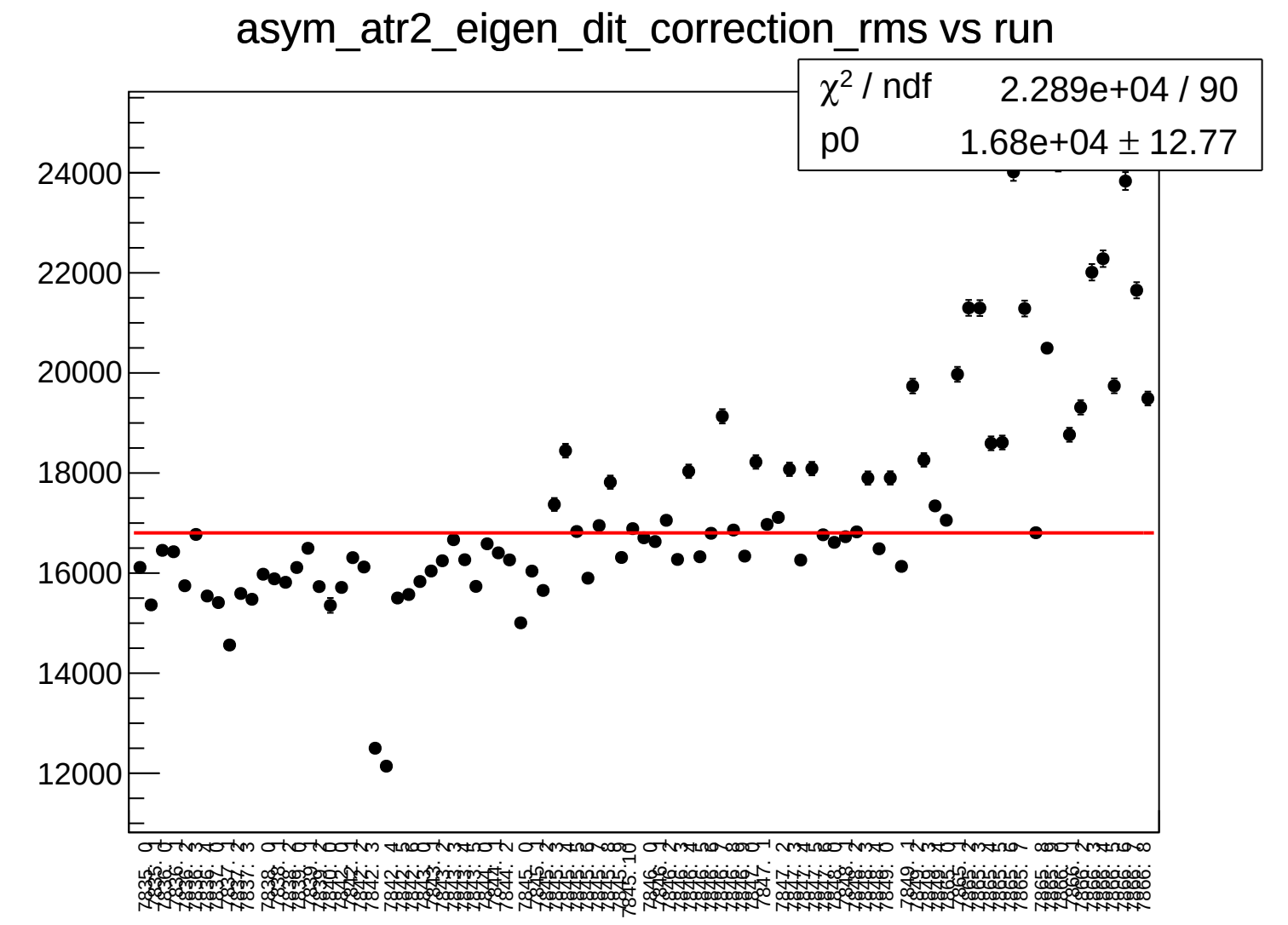


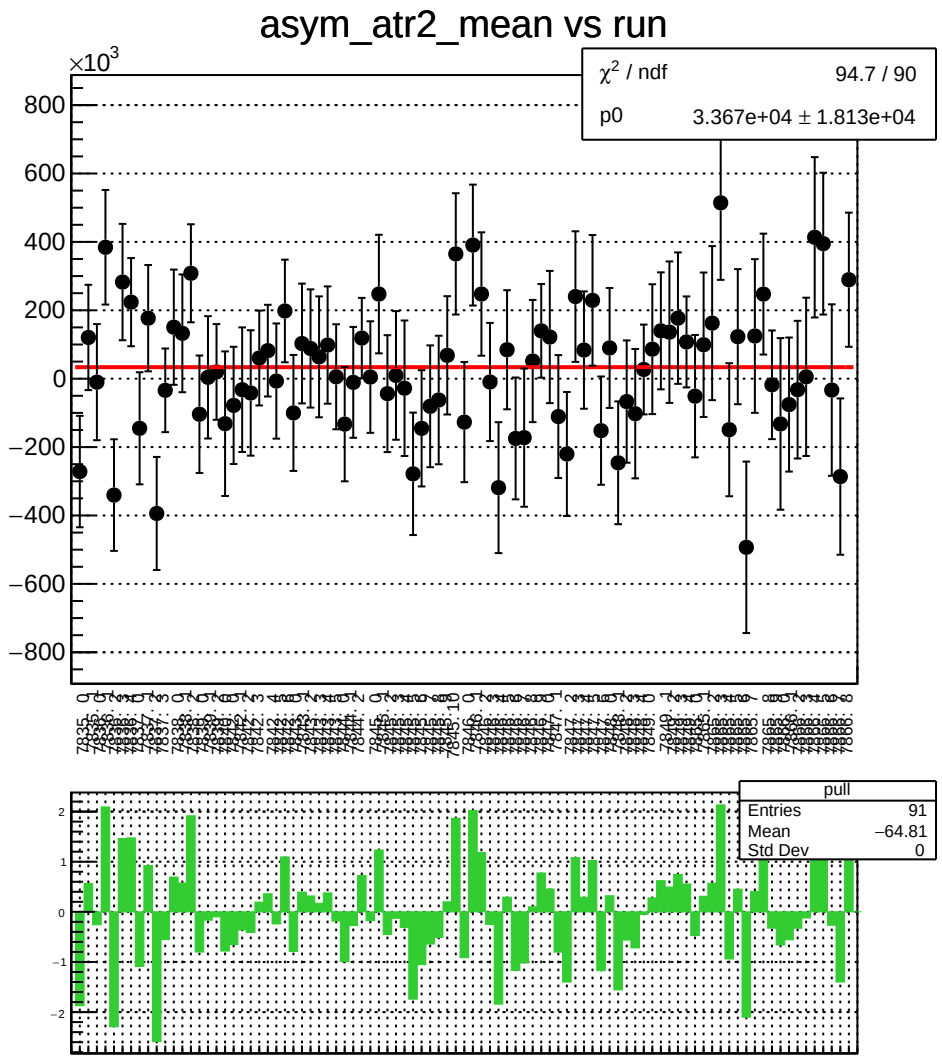

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 74.13 / 90
p0 5108 ± 3126
100
50
0
−50
−100
pull
Entries 91
Mean 88.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

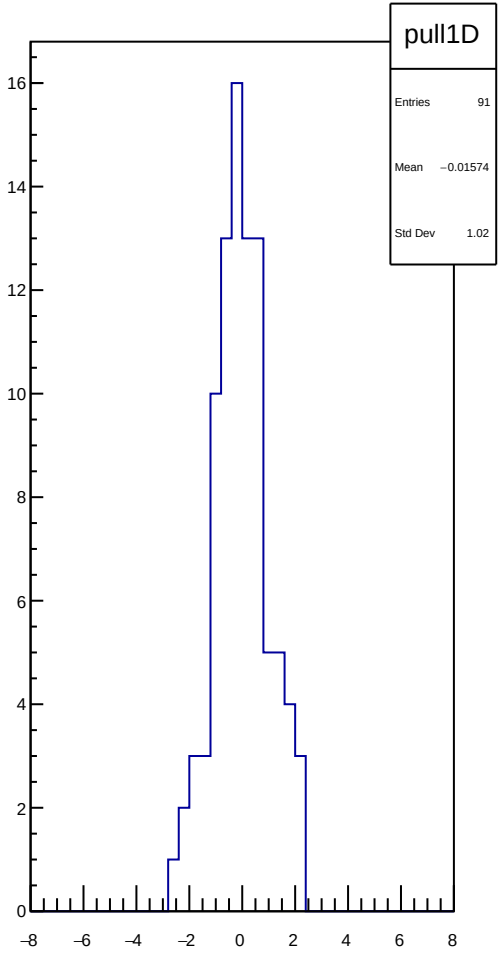

pull1D
Entries 91
Mean 0.01461
Std Dev 0.9025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

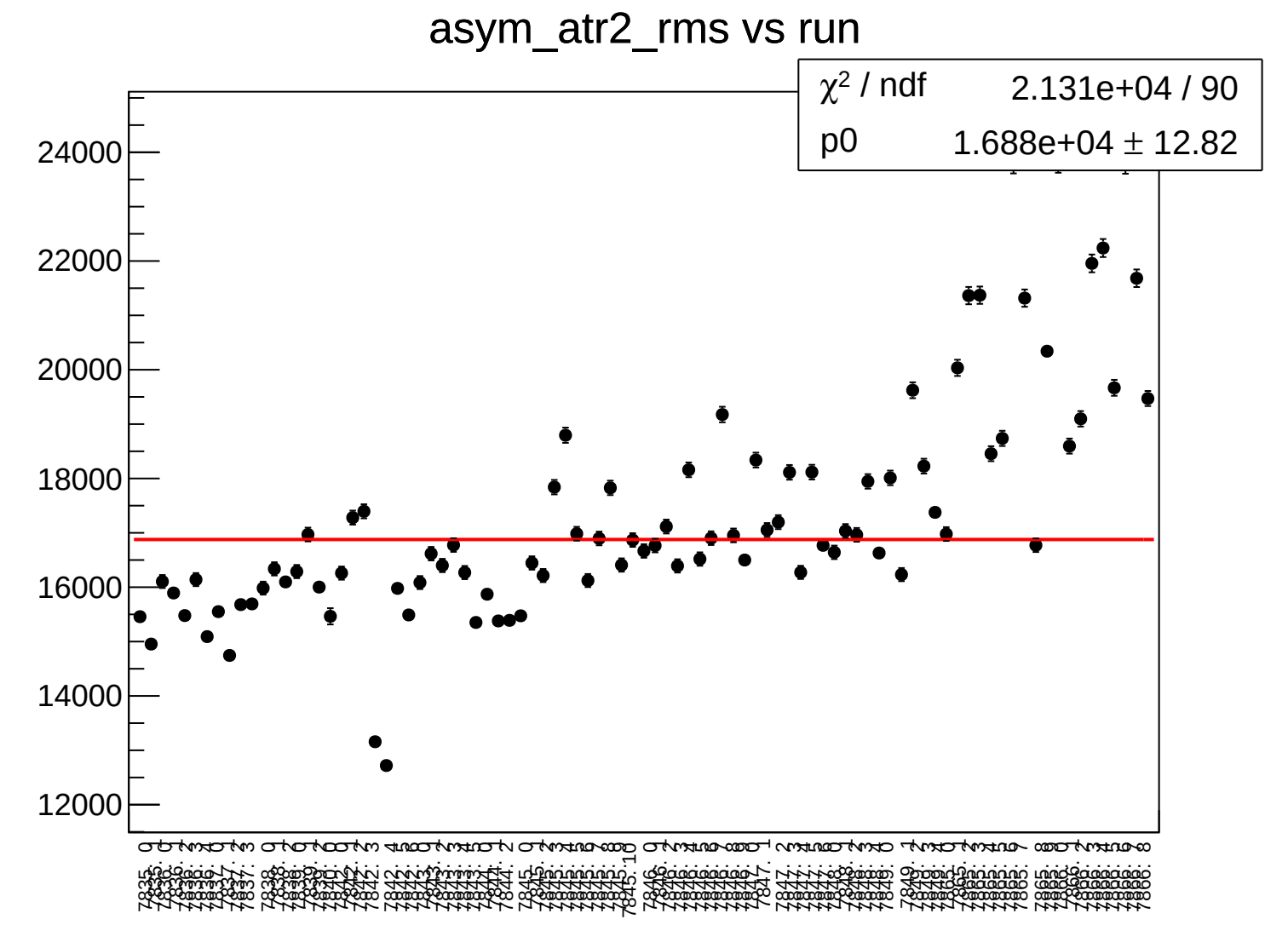

eigen_dit_asym_atr2_rms vs run
χ² / ndf 879.4 / 90
p0 2927 ± 2.21
3300
3200
3100
3000
2900
2800

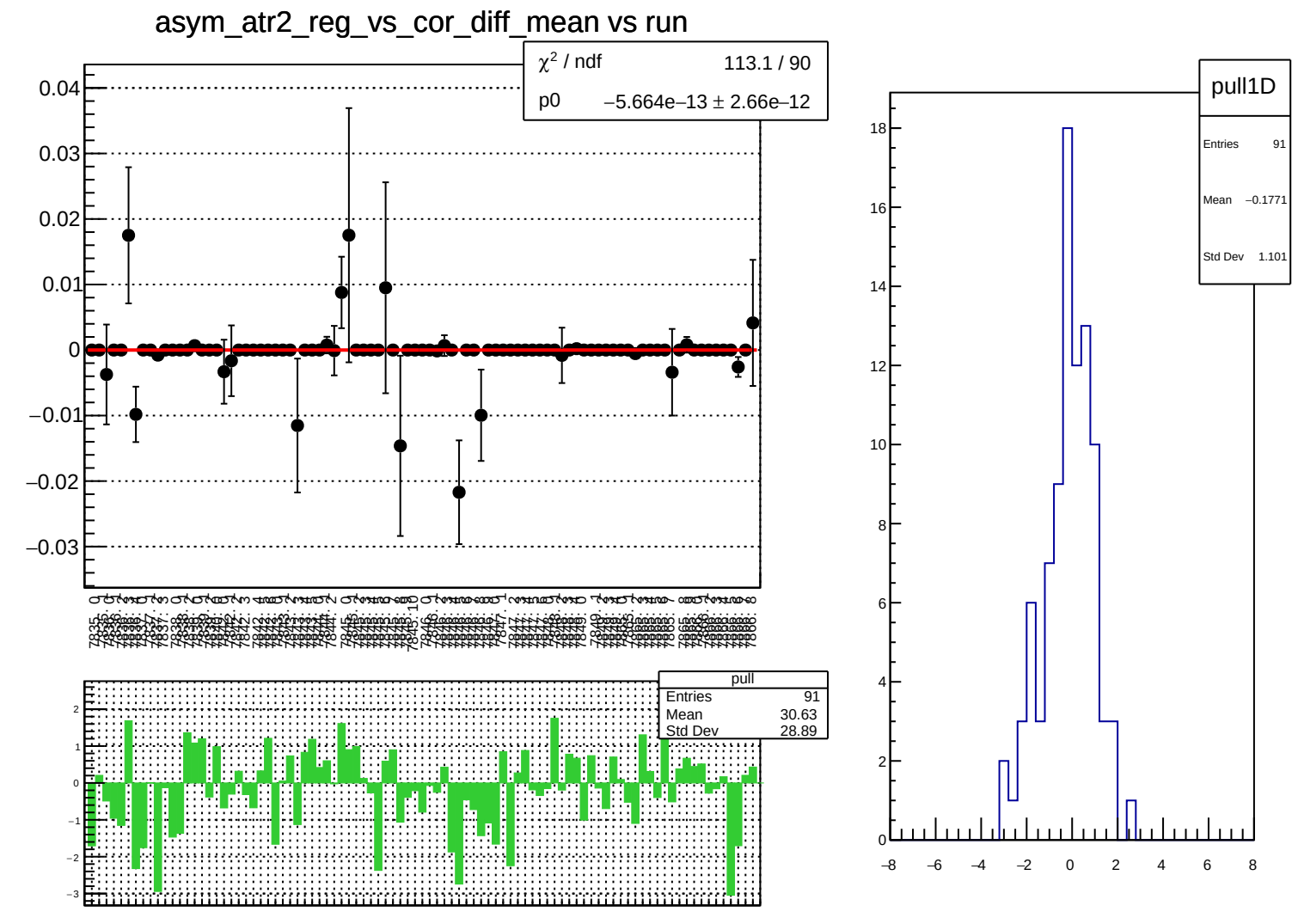

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.42 / 90
p0 −2.768e+04 ± 1.806e+04
pull
Entries 91
Mean −70.69
Std Dev 0
pull1D
Entries 91
Mean 0.01507
Std Dev 1.045

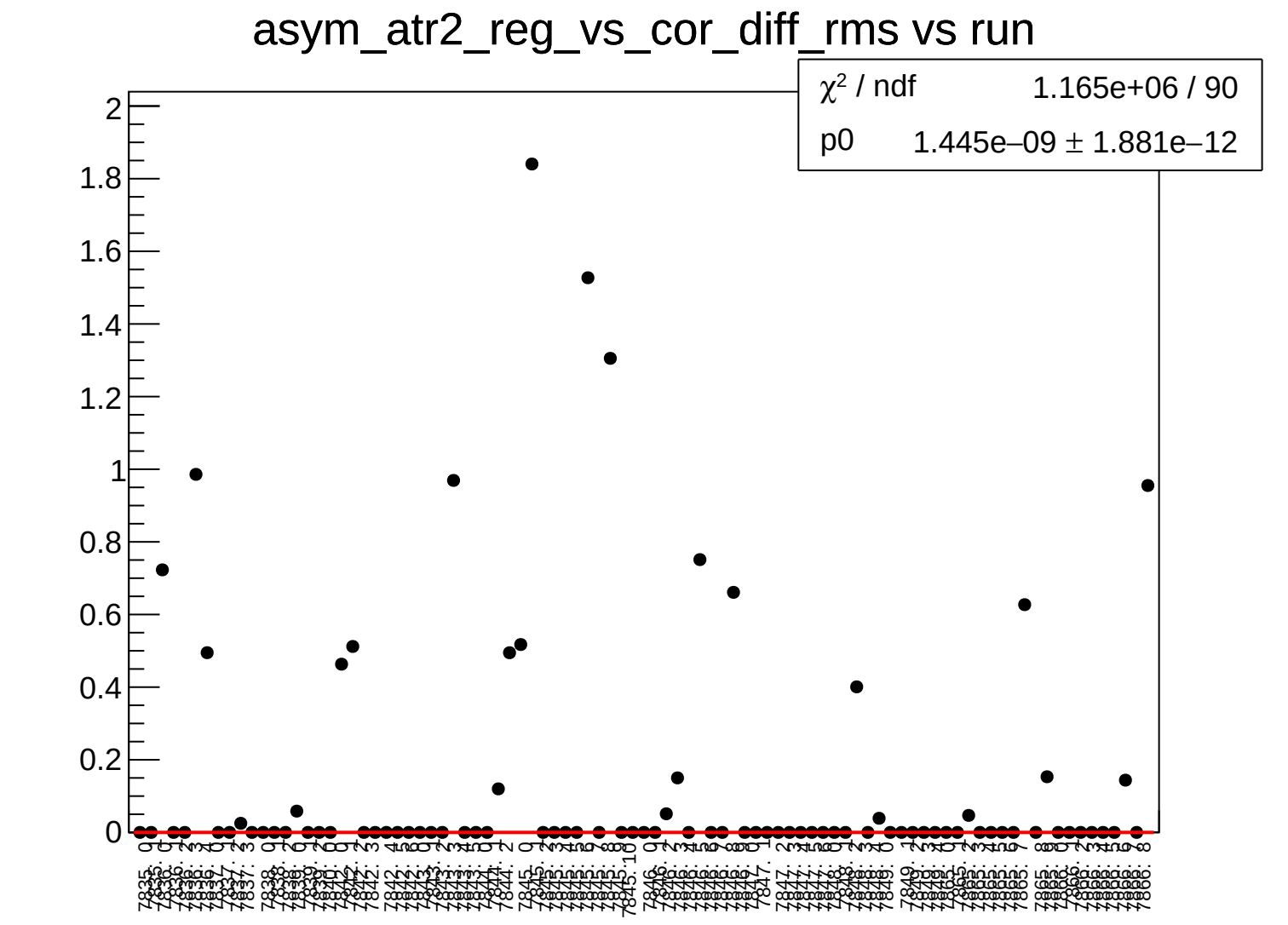

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2.289e+04 / 90
p0 1.68e+04 ± 12.77
24000
22000
20000
18000
16000
14000
12000

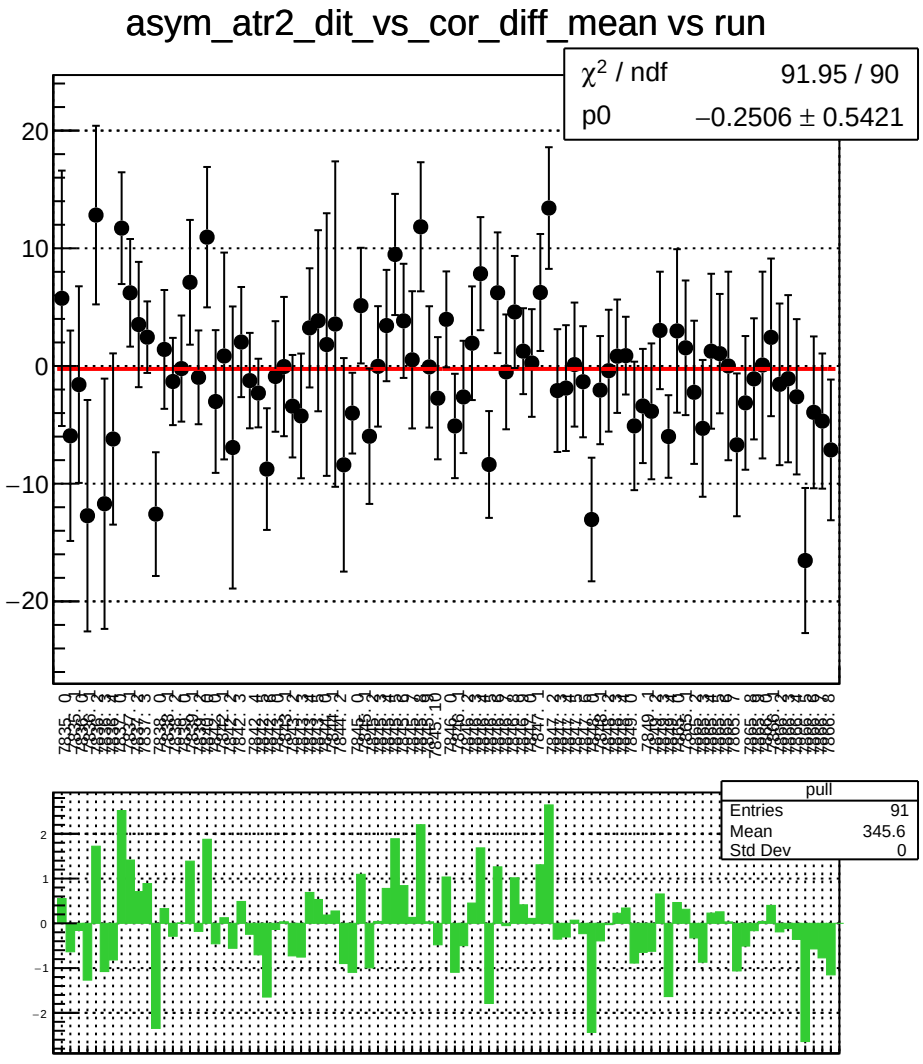

asym_atr2_mean vs run
×10^3
800
600
400
200
0
−200
−400
−600
−800
χ² / ndf 94.7 / 90
p0 3.367e+04 ± 1.813e+04
pull
Entries 91
Mean −64.81
Std Dev 0
2
1
0
−1
−2

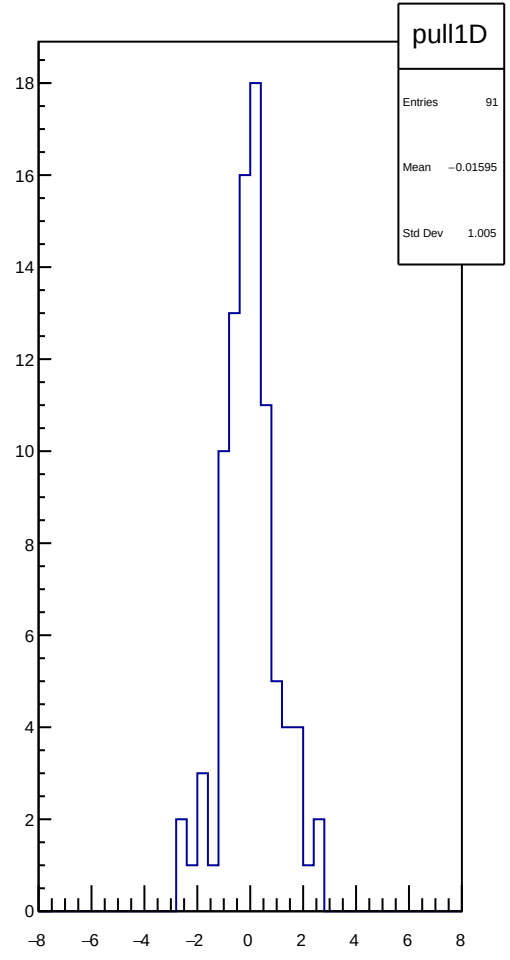

pull1D
Entries 91
Mean −0.01574
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

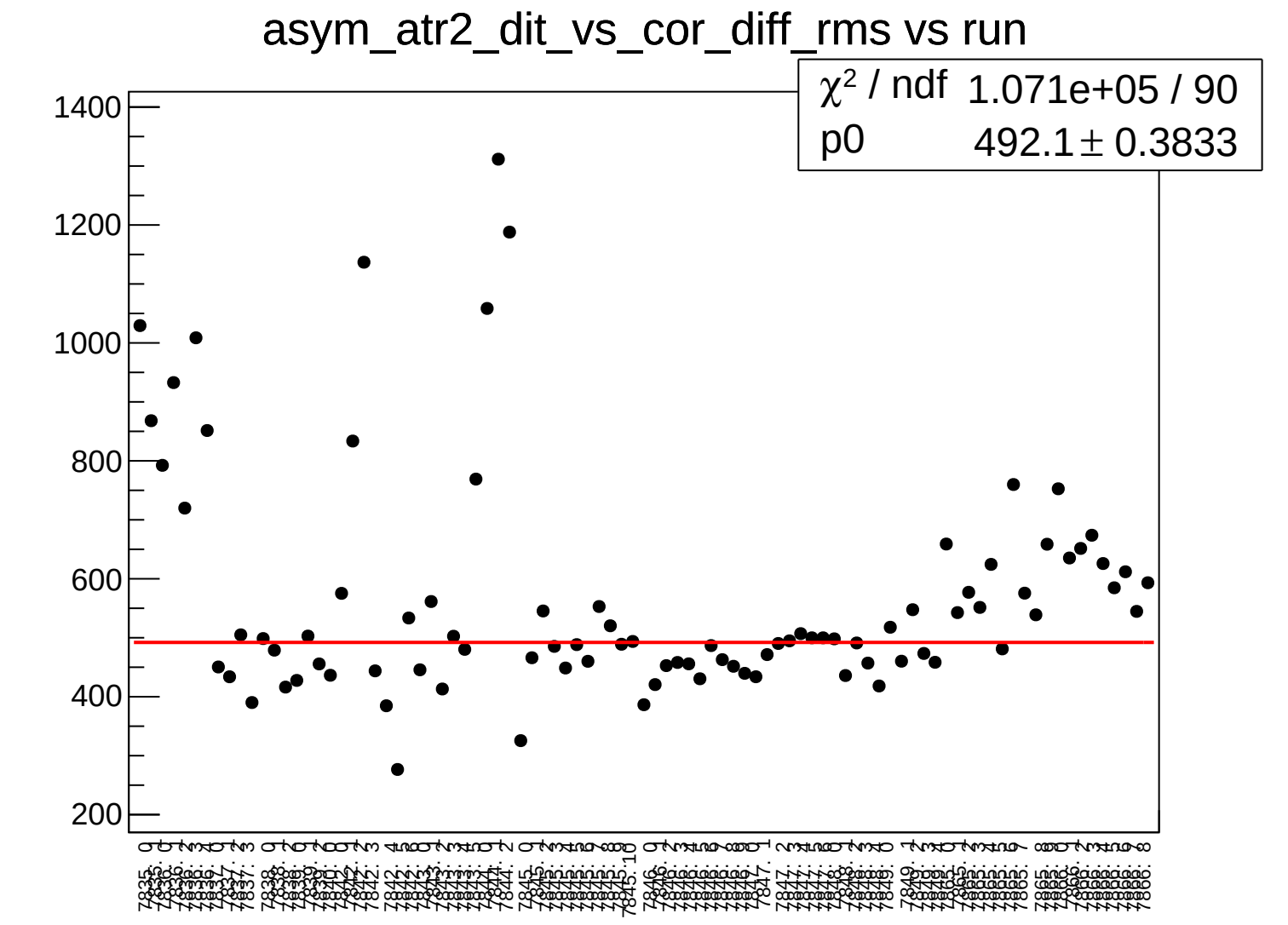

asym_atr2_rms vs run
χ² / ndf 2.131e+04 / 90
p0 1.688e+04 ± 12.82
24000
22000
20000
18000
16000
14000
12000

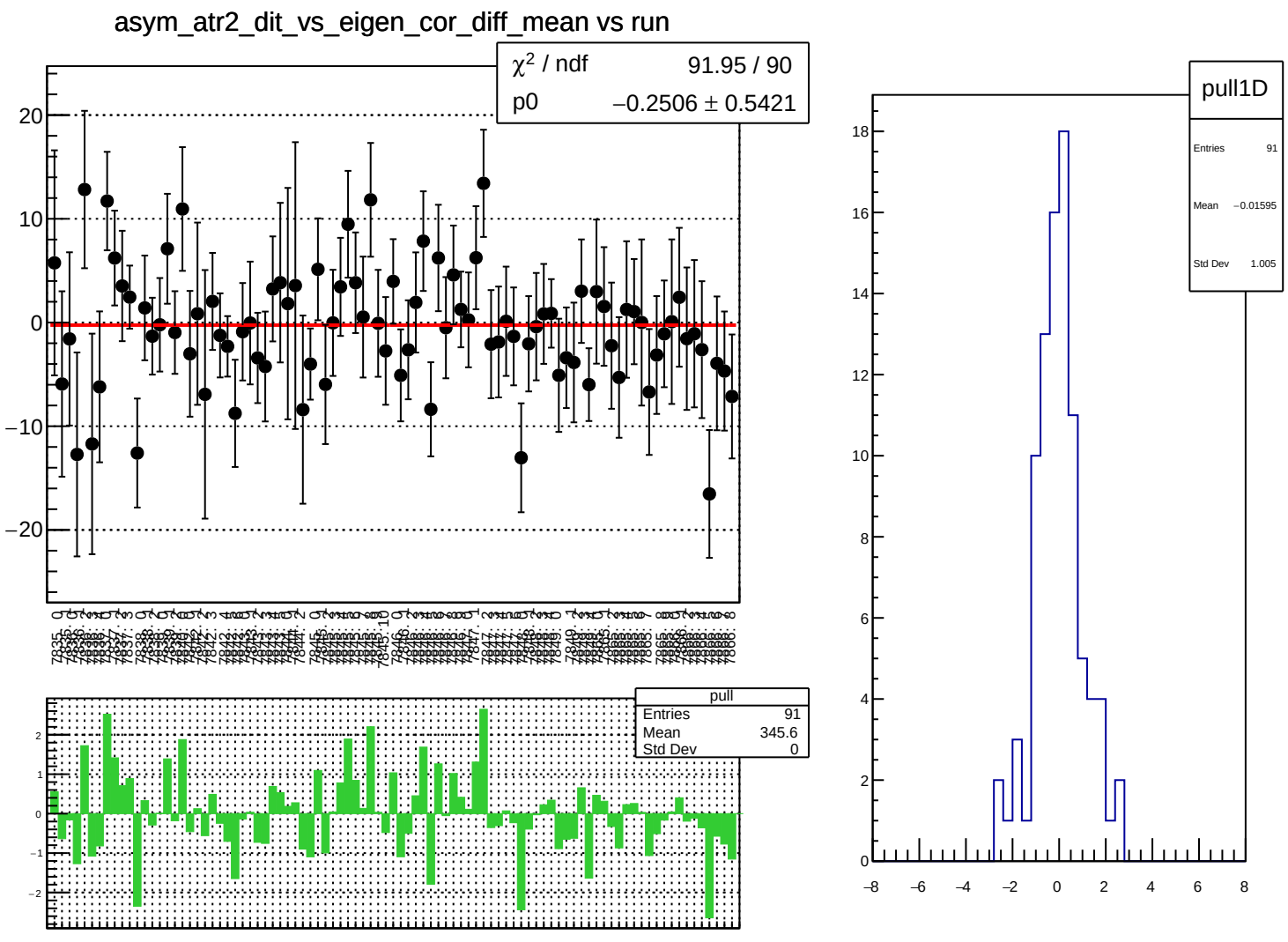

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 113.1 / 90
p0 −5.664e−13 ± 2.66e−12
pull
Entries 91
Mean 30.63
Std Dev 28.89
pull1D
Entries 91
Mean −0.1771
Std Dev 1.101

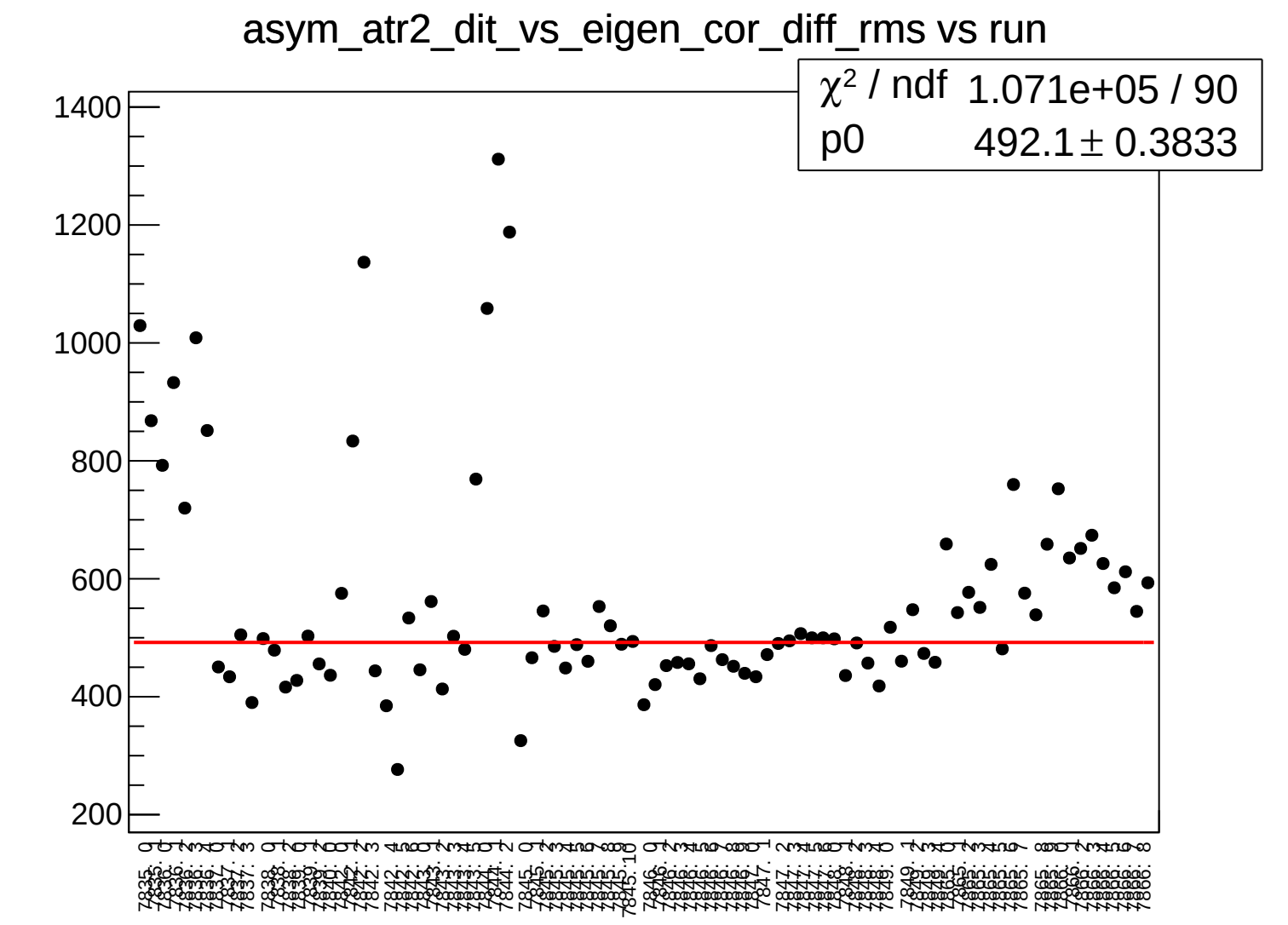

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 90
p0 1.445e−09 ± 1.881e−12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

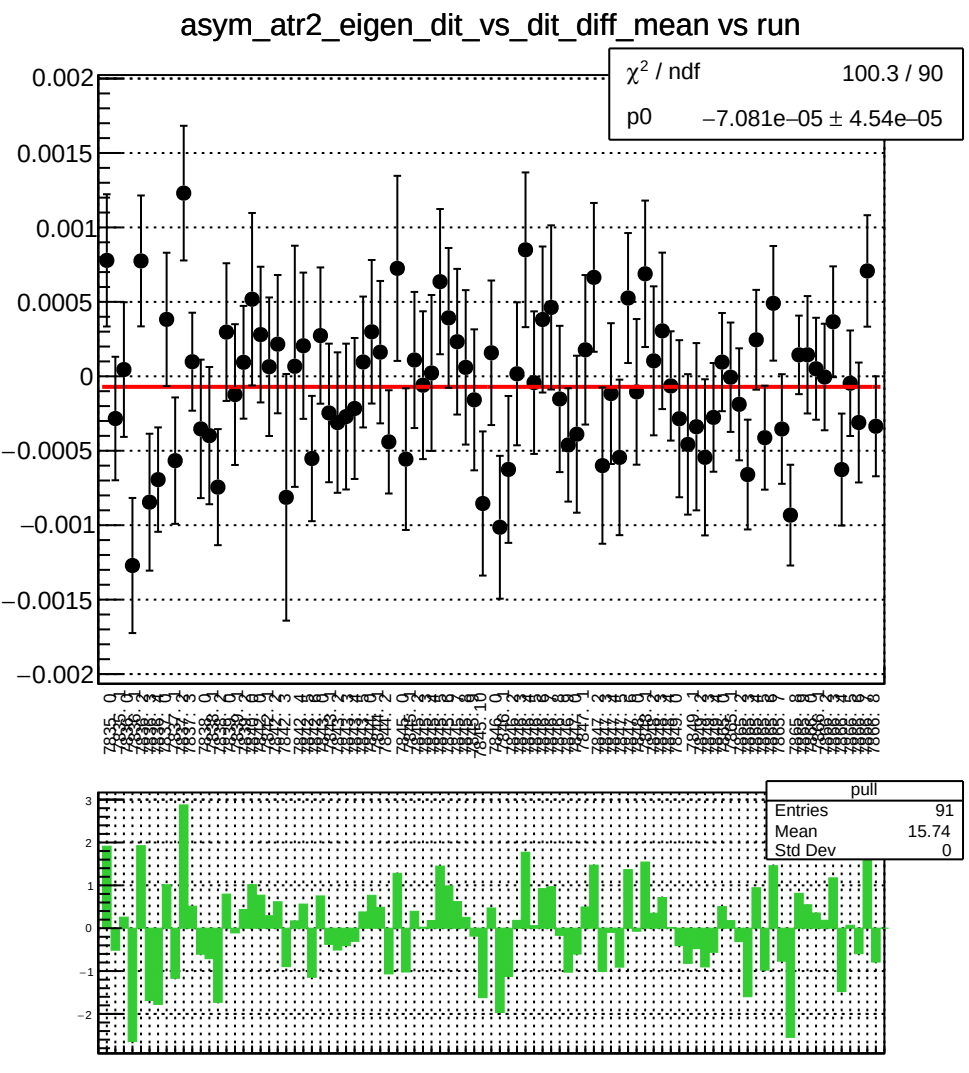

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 91.95 / 90
p0 −0.2506 ± 0.5421
pull
Entries 91
Mean 345.6
Std Dev 0

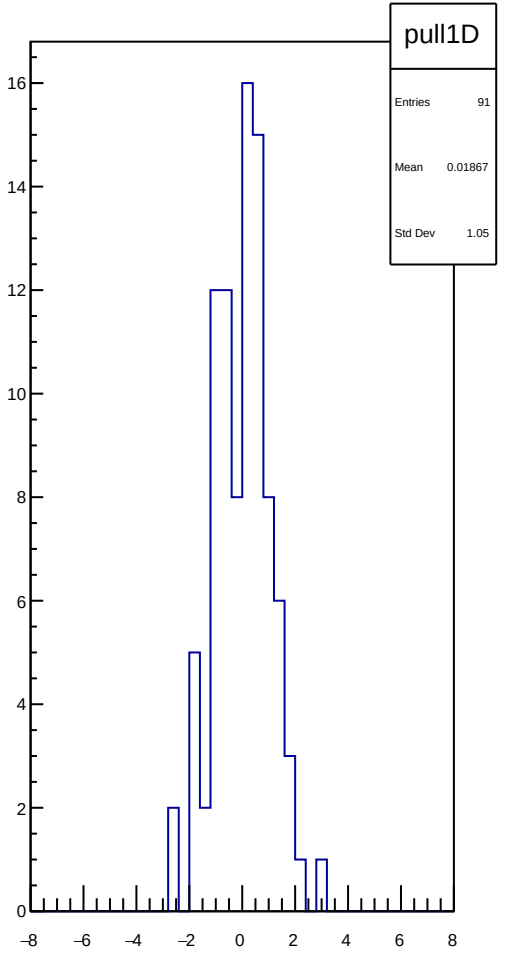

pull1D
Entries 91
Mean −0.01595
Std Dev 1.005

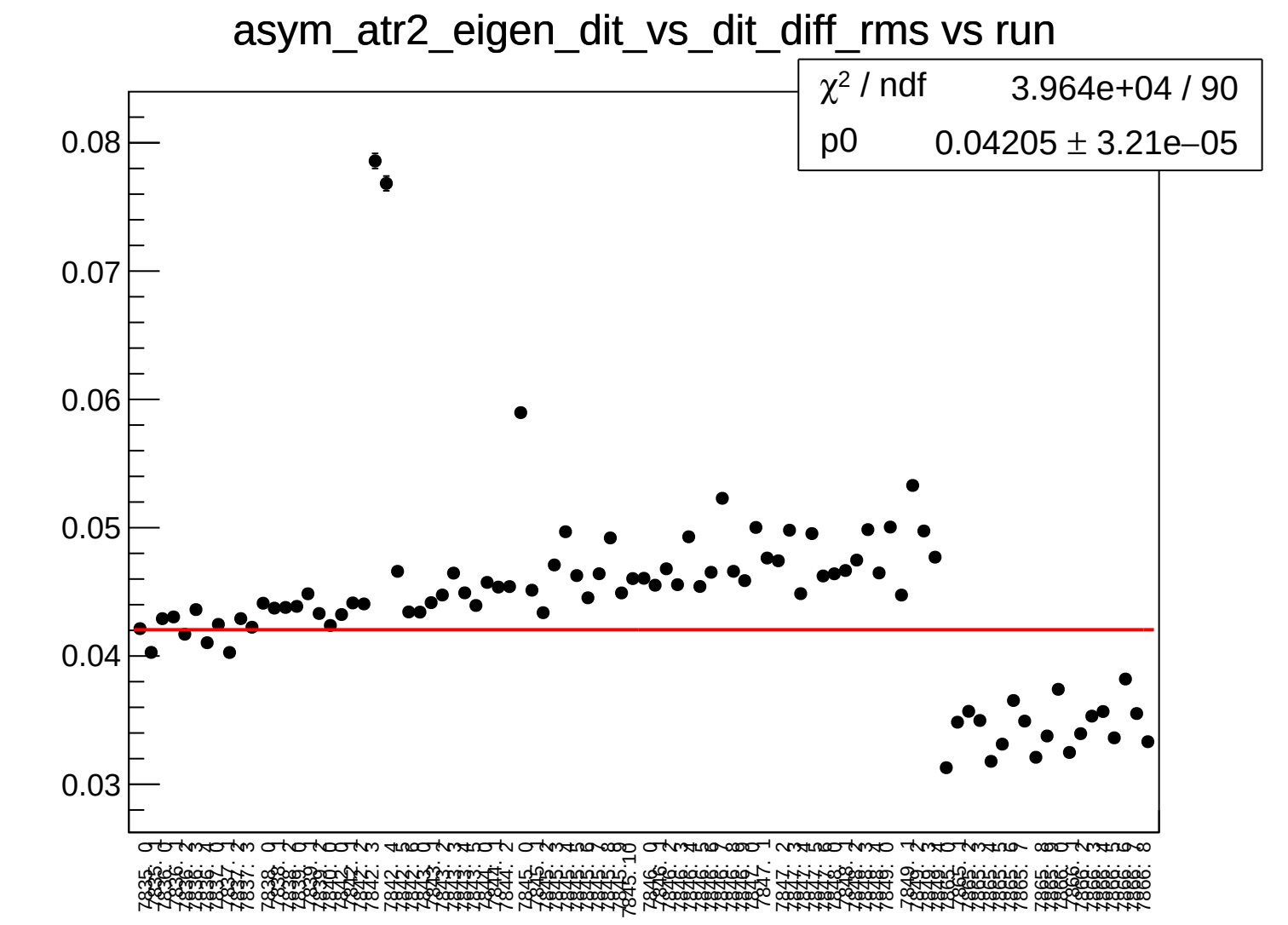

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.071e+05 / 90
p0 492.1 ± 0.3833
1400
1200
1000
800
600
400
200

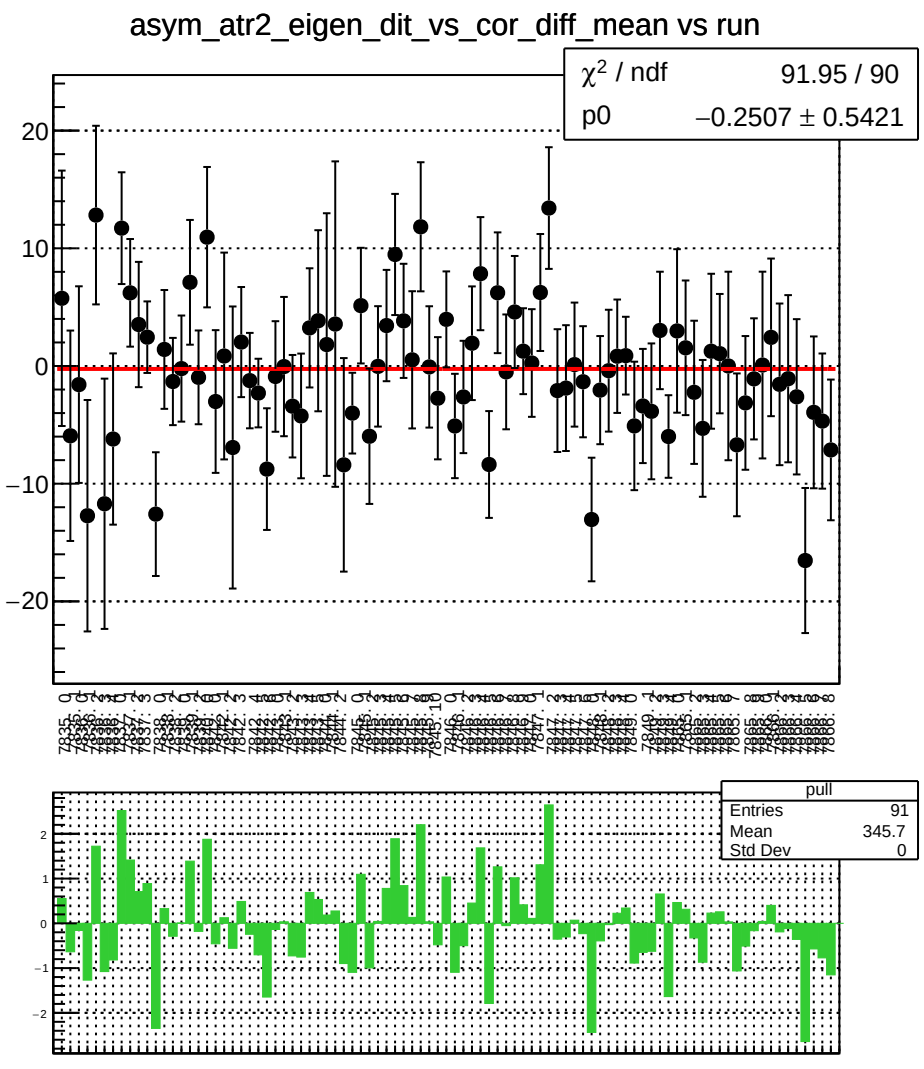

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.95 / 90
p0 −0.2506 ± 0.5421
pull
Entries 91
Mean 345.6
Std Dev 0
pull1D
Entries 91
Mean −0.01595
Std Dev 1.005

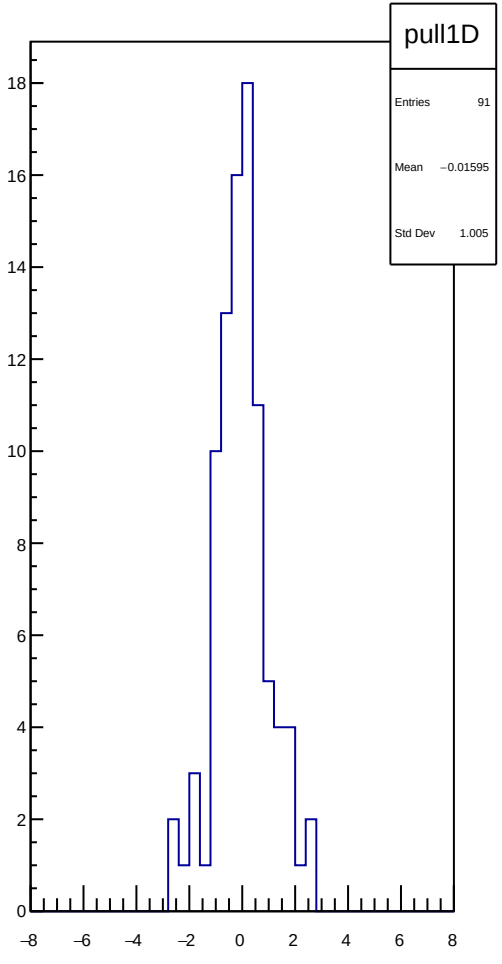

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.071e+05 / 90
p0 492.1 ± 0.3833
1400
1200
1000
800
600
400
200

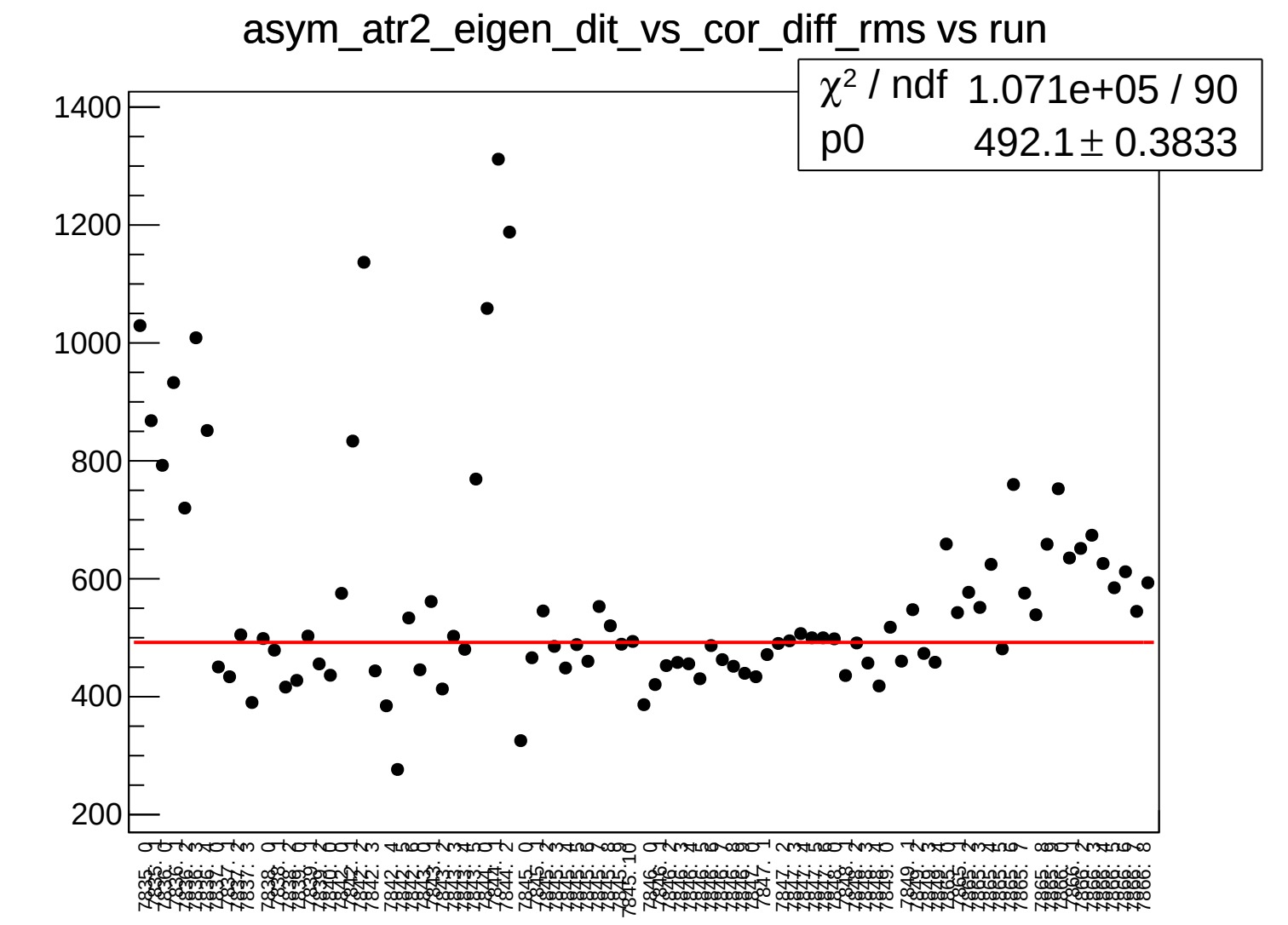

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.3 / 90
p0 −7.081e−05 ± 4.54e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 15.74
Std Dev 0
3
2
1
0
−1
−2

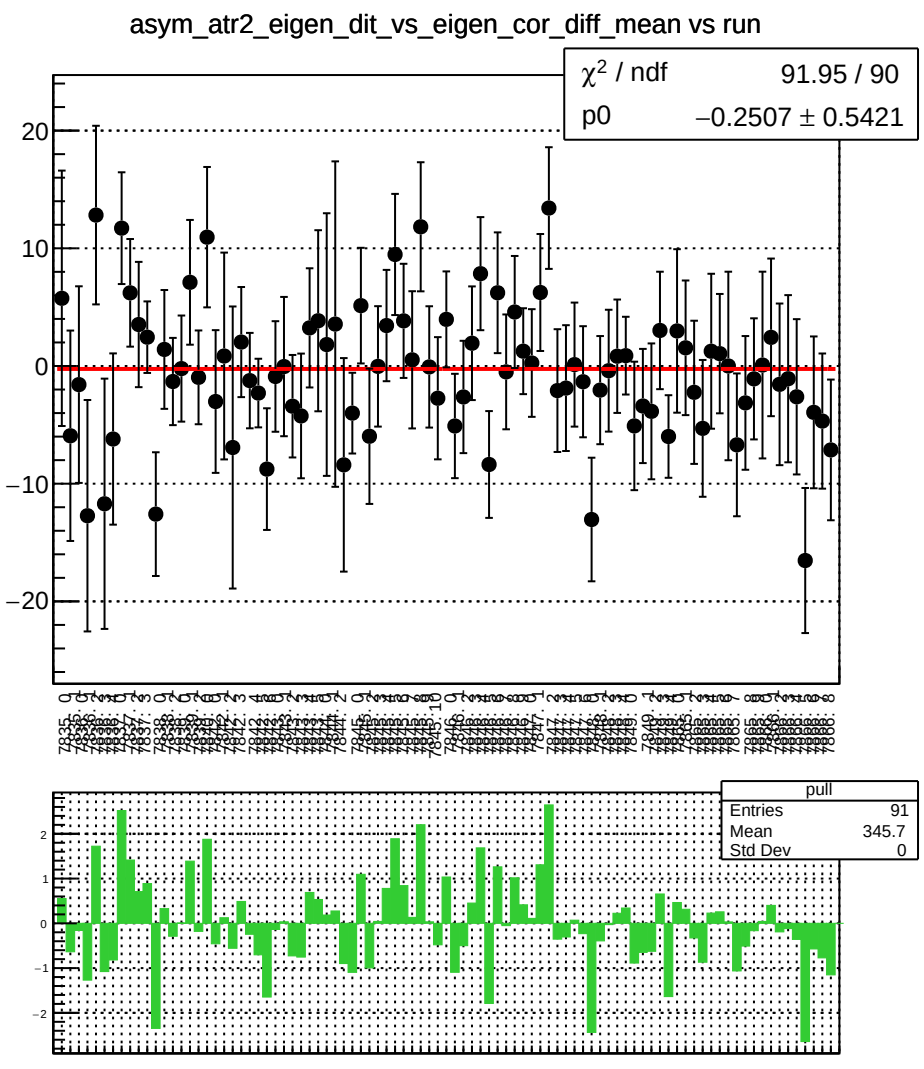

pull1D
Entries 91
Mean 0.01867
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

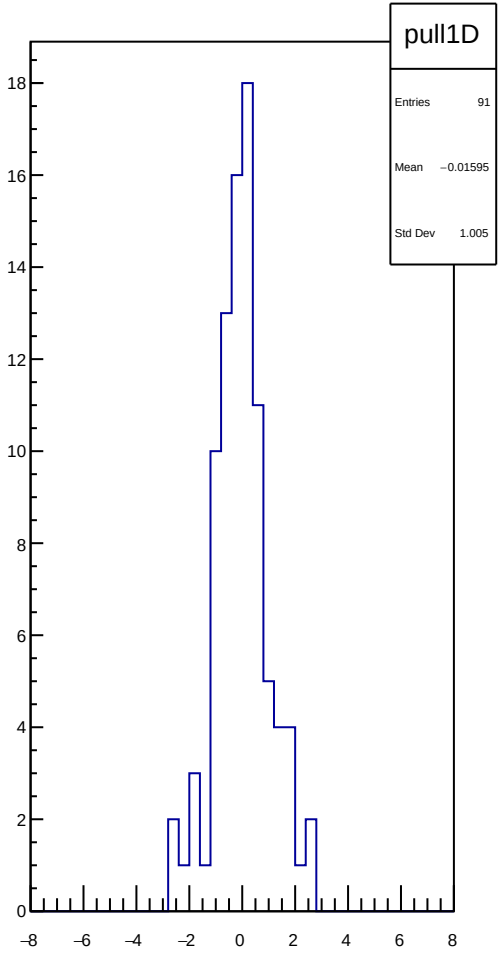

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.964e+04 / 90
p0 0.04205 ± 3.21e−05
0.08
0.07
0.06
0.05
0.04
0.03

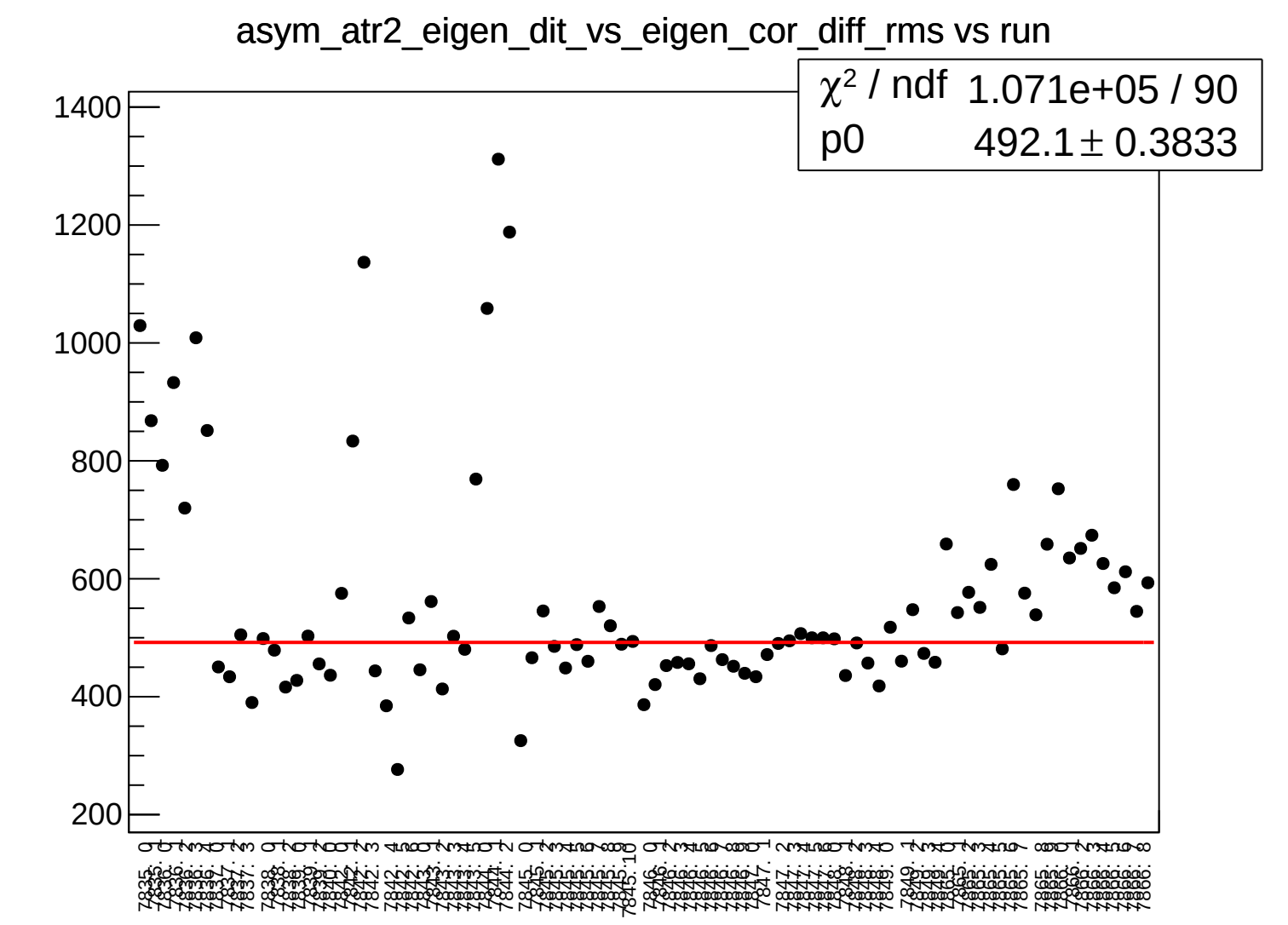

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.95 / 90
p0 −0.2507 ± 0.5421
pull
Entries 91
Mean 345.7
Std Dev 0

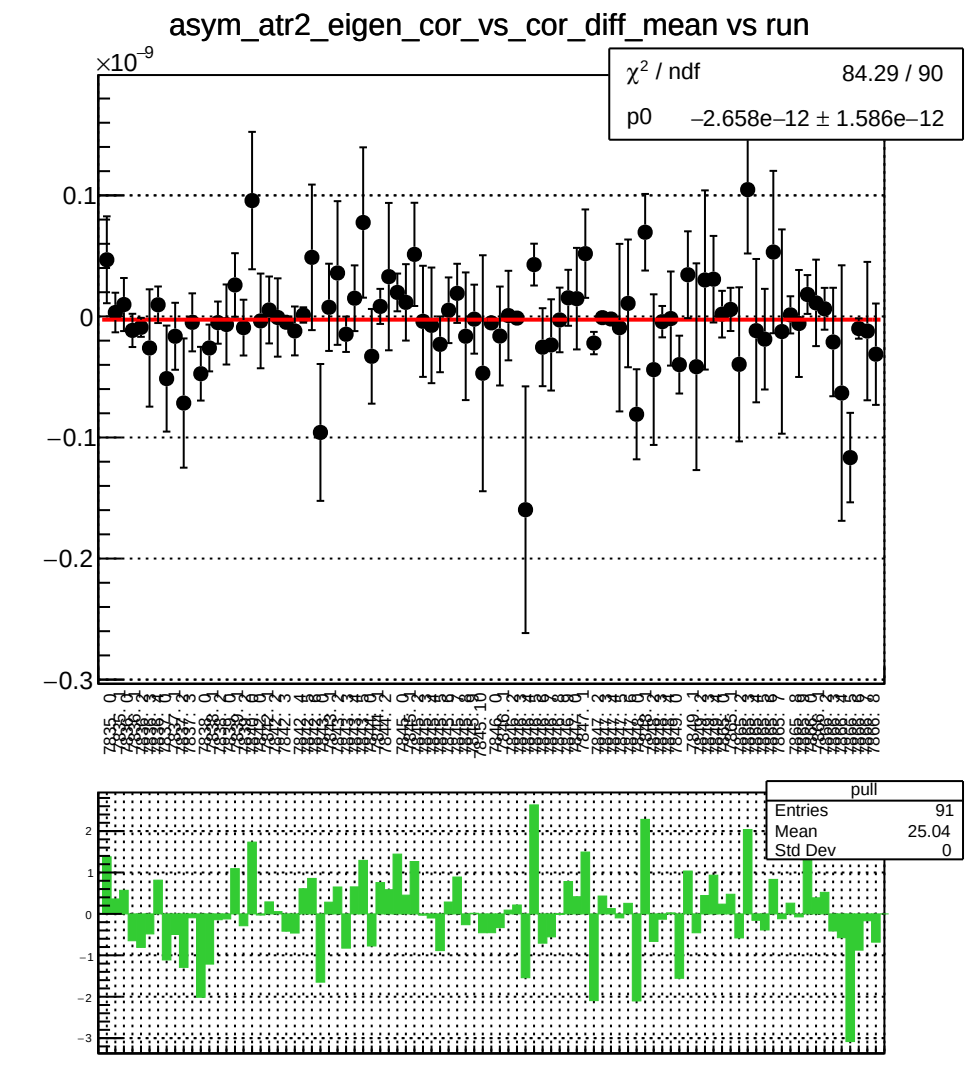

pull1D
Entries 91
Mean −0.01595
Std Dev 1.005

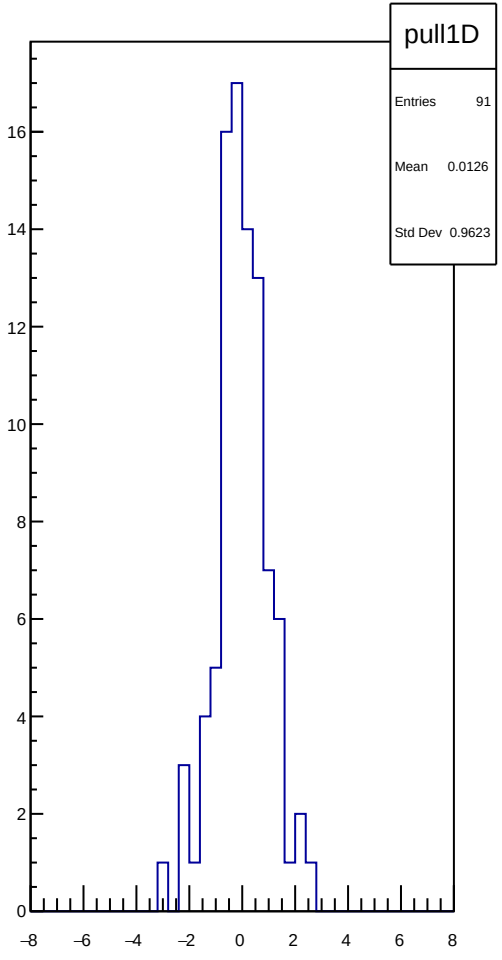

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.071e+05 / 90
p0 492.1 ± 0.3833
1400
1200
1000
800
600
400
200

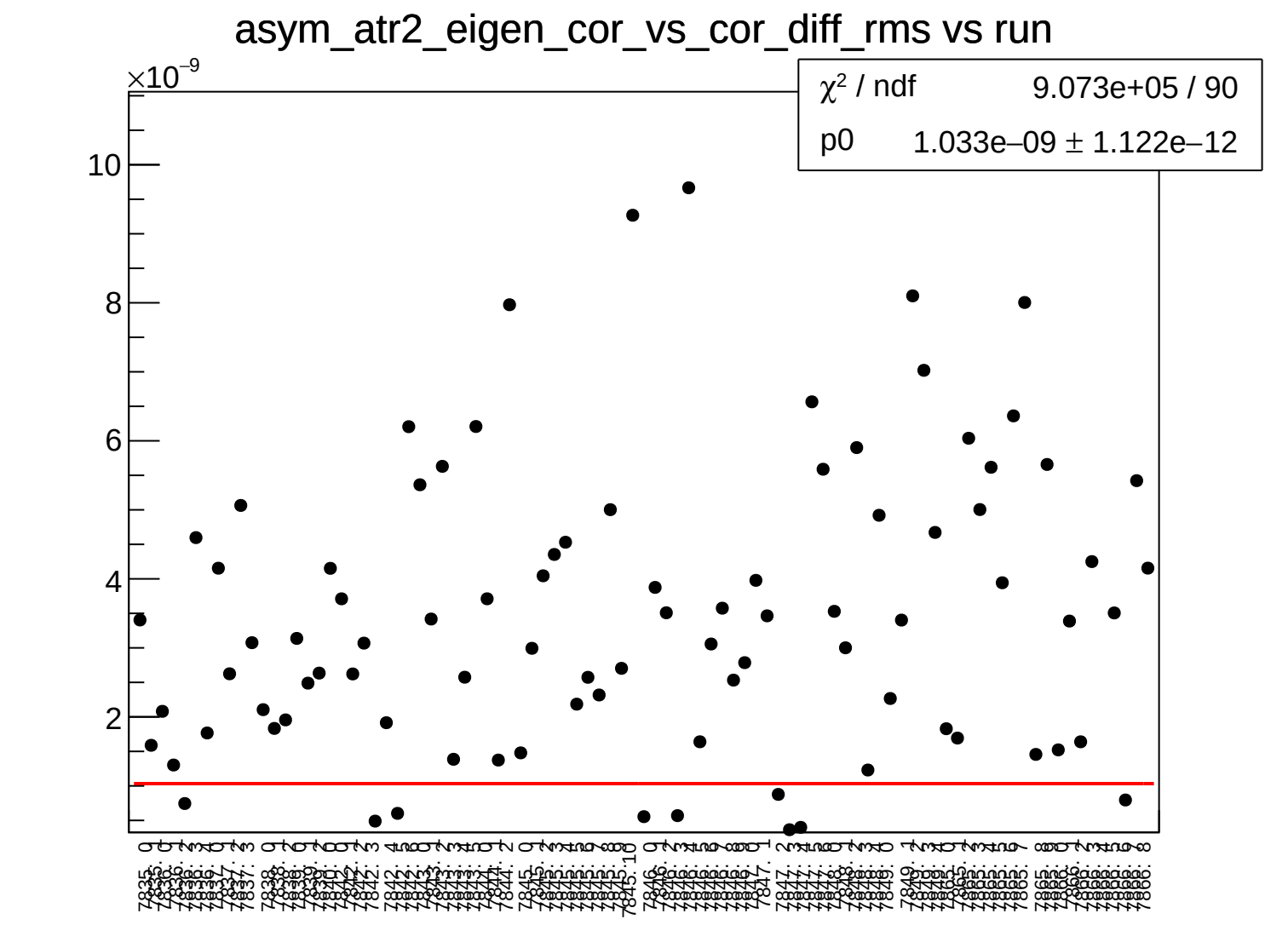

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.95 / 90
p0 −0.2507 ± 0.5421
pull
Entries 91
Mean 345.7
Std Dev 0

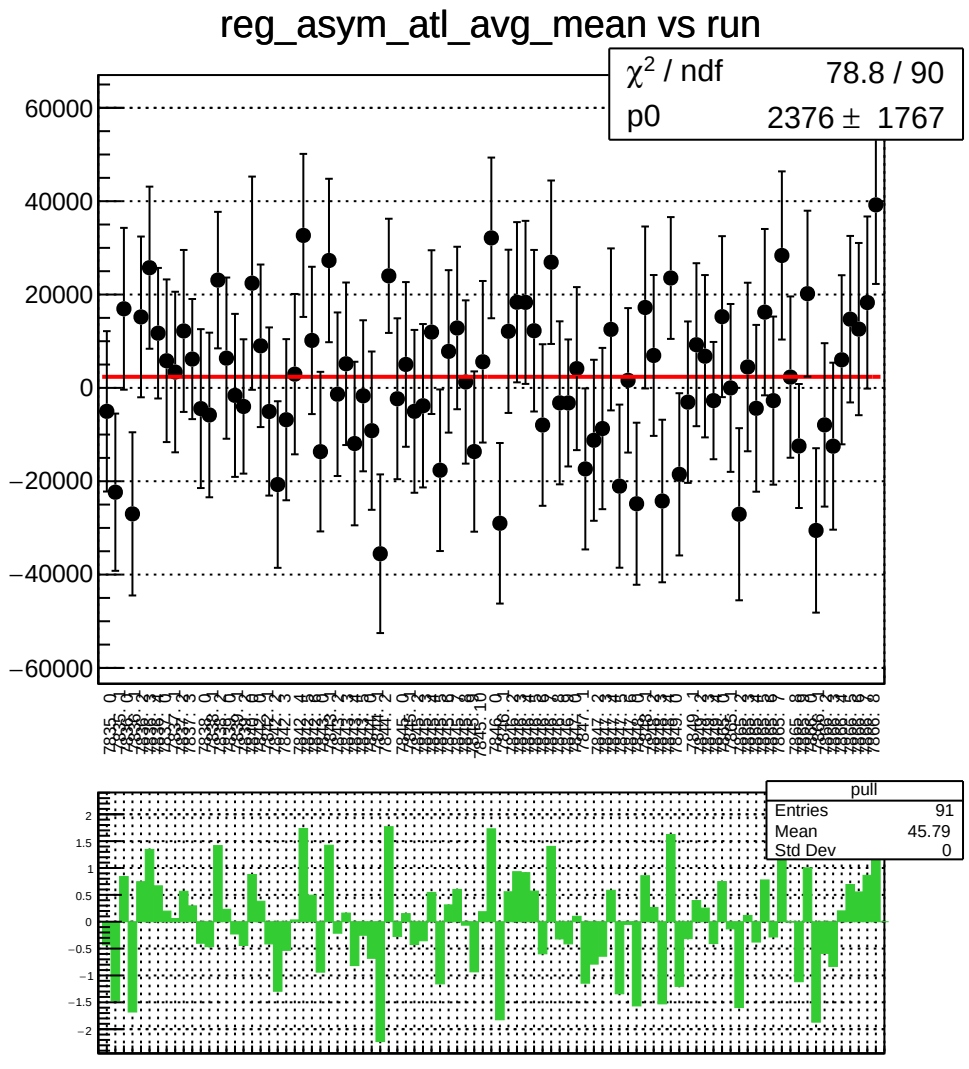

pull1D
Entries 91
Mean −0.01595
Std Dev 1.005

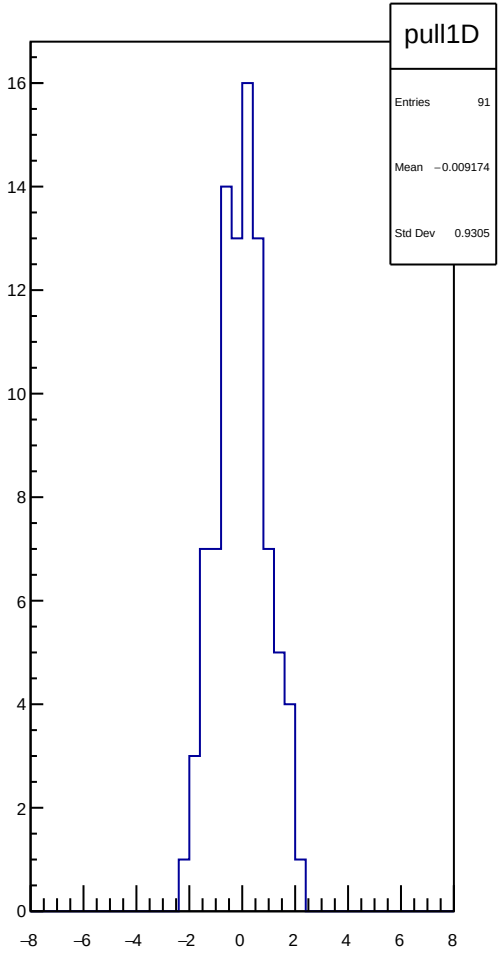

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.071e+05 / 90
p0 492.1 ± 0.3833
1400
1200
1000
800
600
400
200

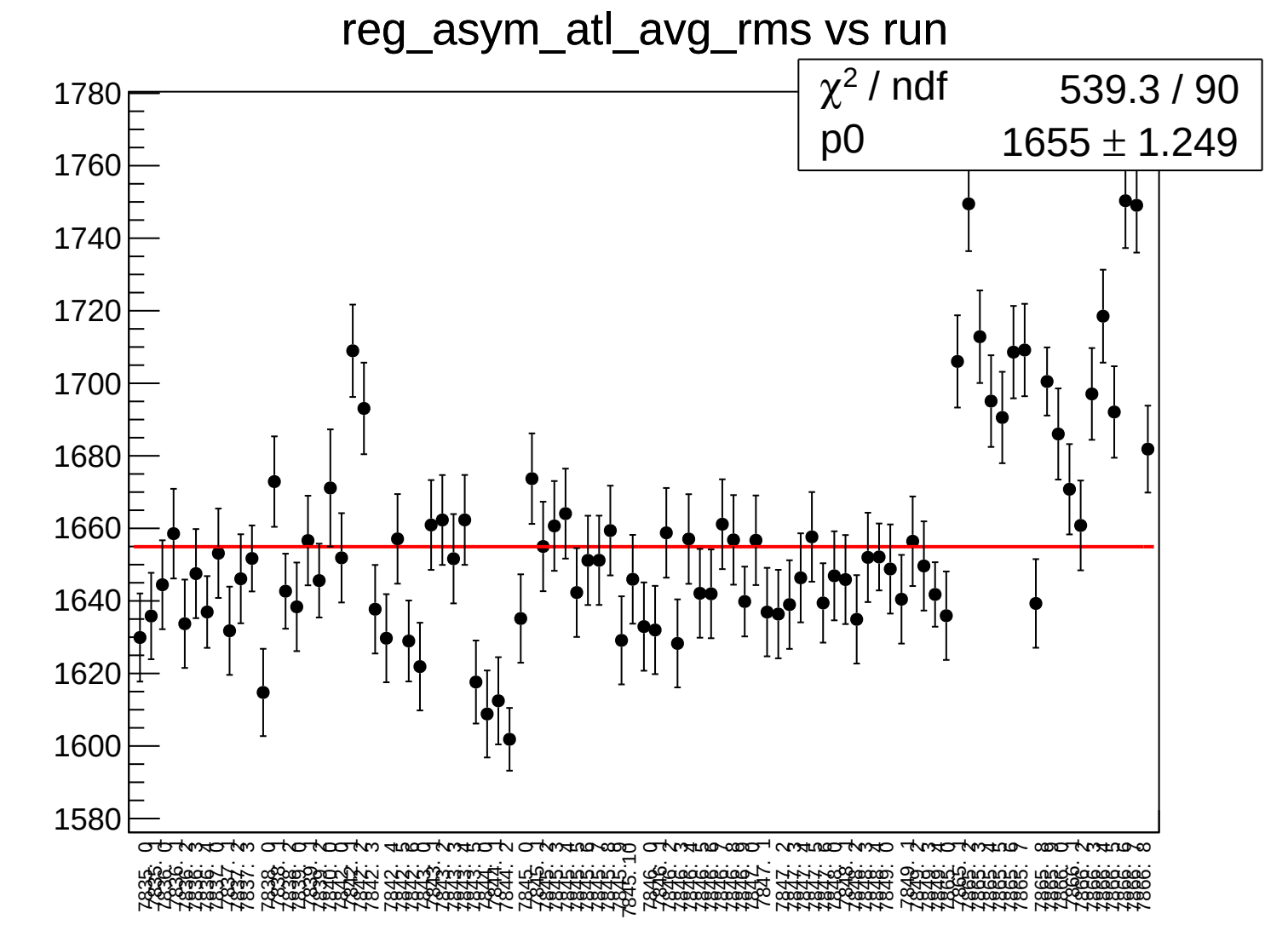

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 84.29 / 90
p0 −2.658e−12 ± 1.586e−12
0.1
0
−0.1
−0.2
−0.3
pull
Entries 91
Mean 25.04
Std Dev 0
2
1
0
−1
−2
−3

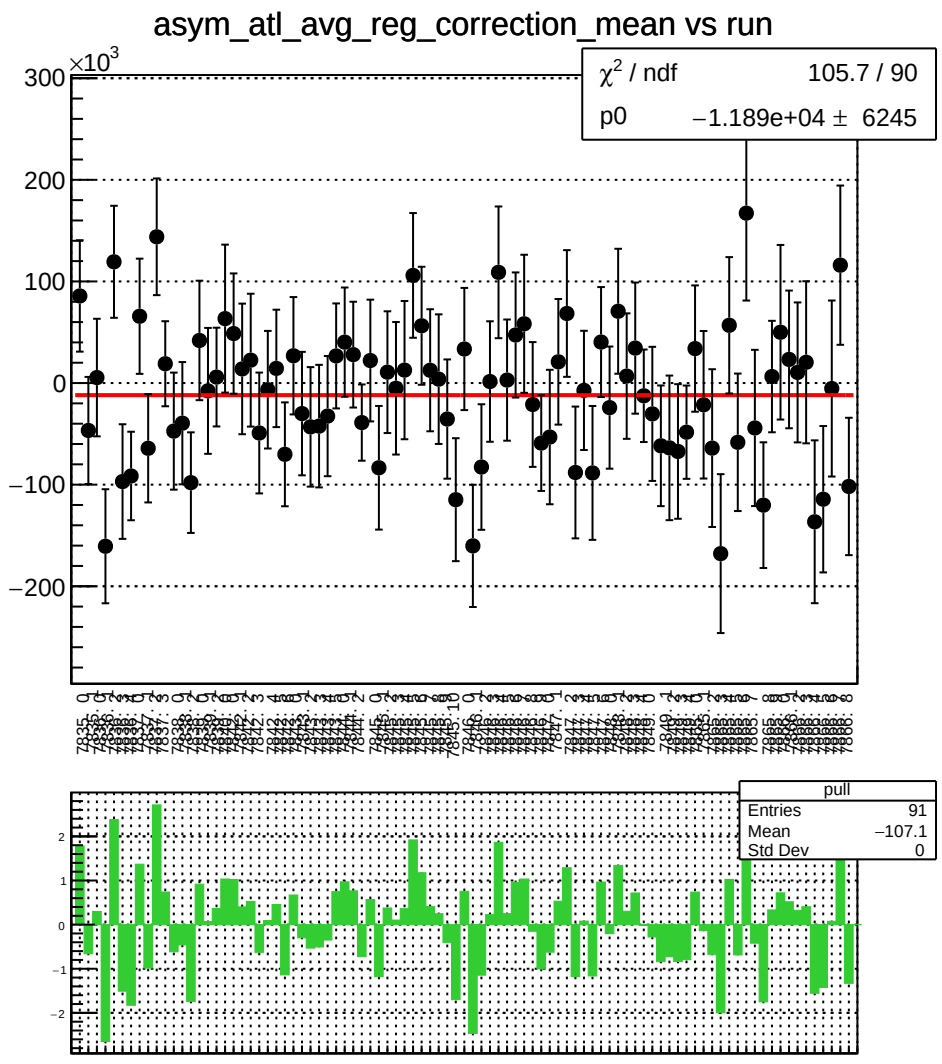

pull1D
Entries 91
Mean 0.0126
Std Dev 0.9623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

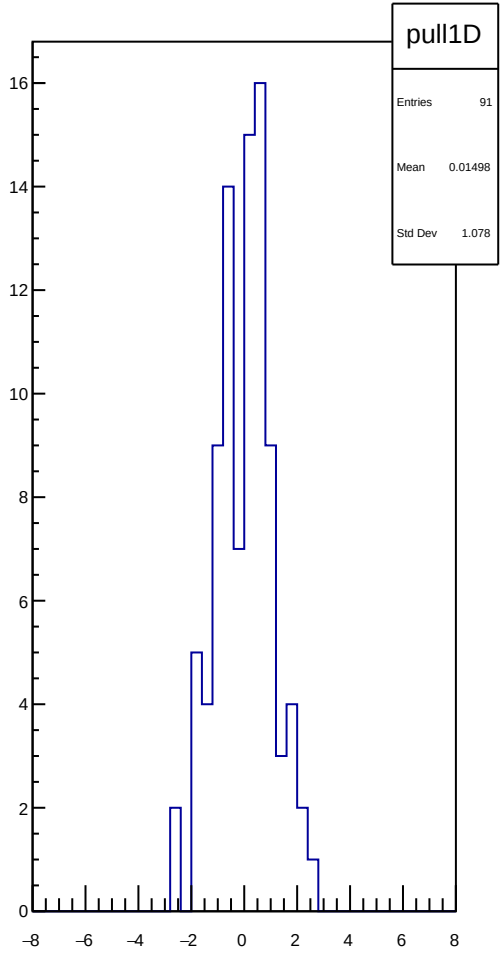

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.073e+05 / 90
p0 1.033e−09 ± 1.122e−12
10
8
6
4
2

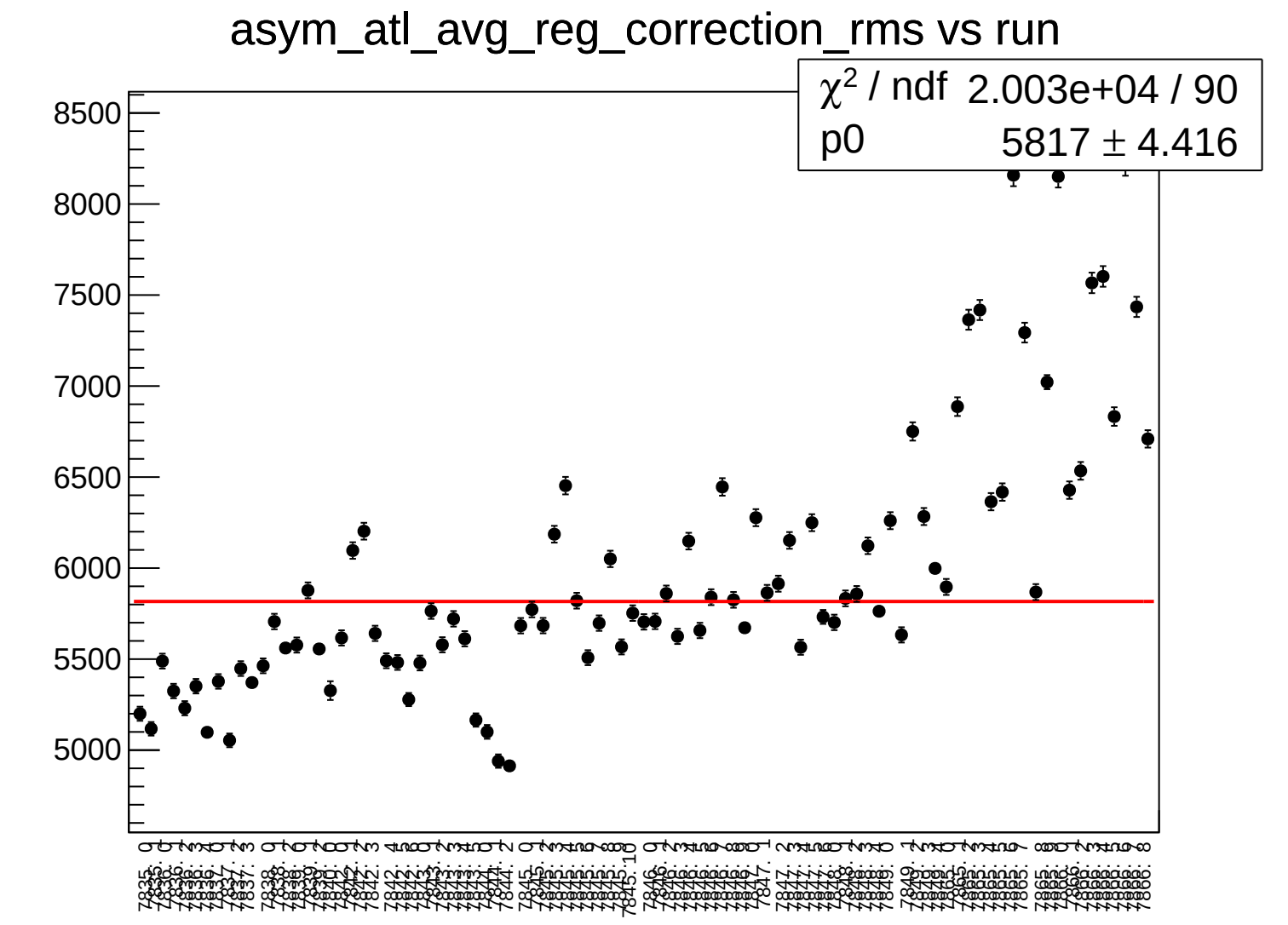

reg_asym_atl_avg_mean vs run
χ² / ndf 78.8 / 90
p0 2376 ± 1767
pull
Entries 91
Mean 45.79
Std Dev 0

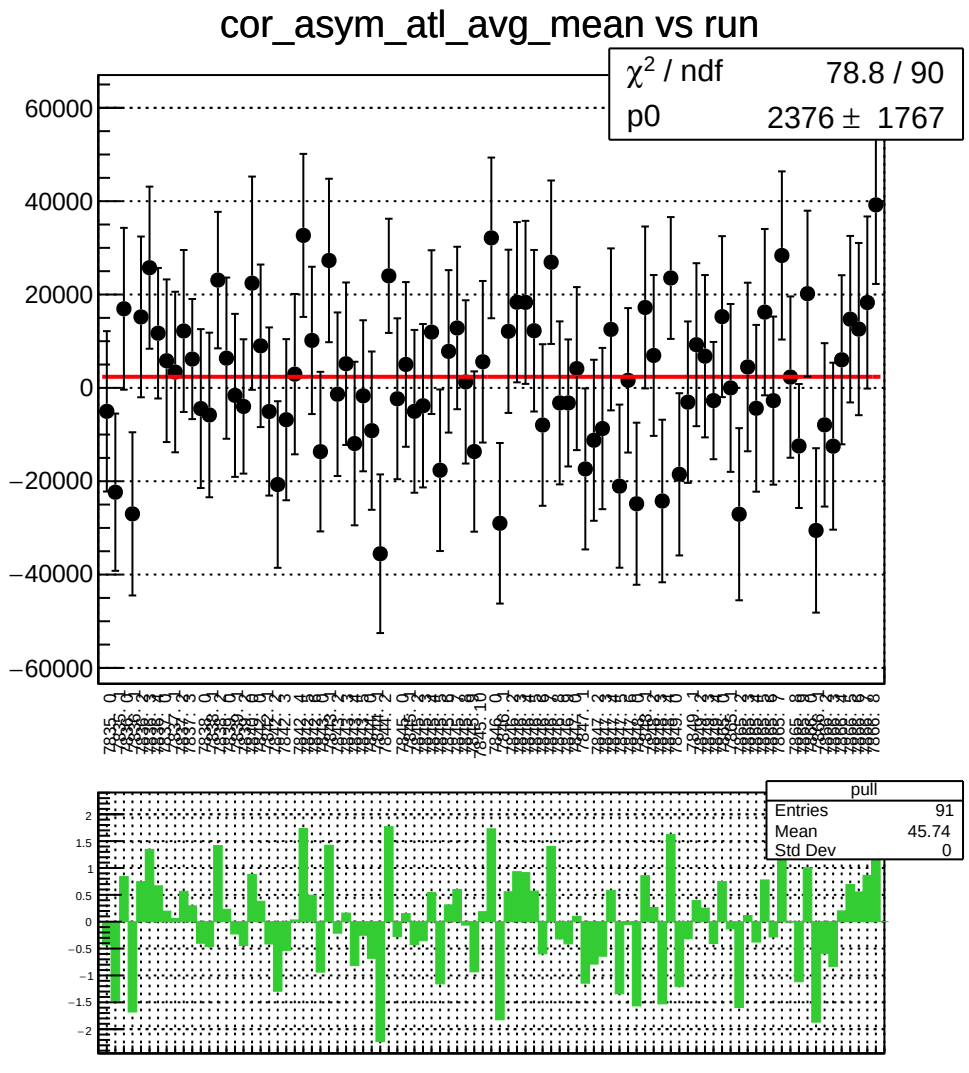

pull1D
Entries 91
Mean −0.009174
Std Dev 0.9305

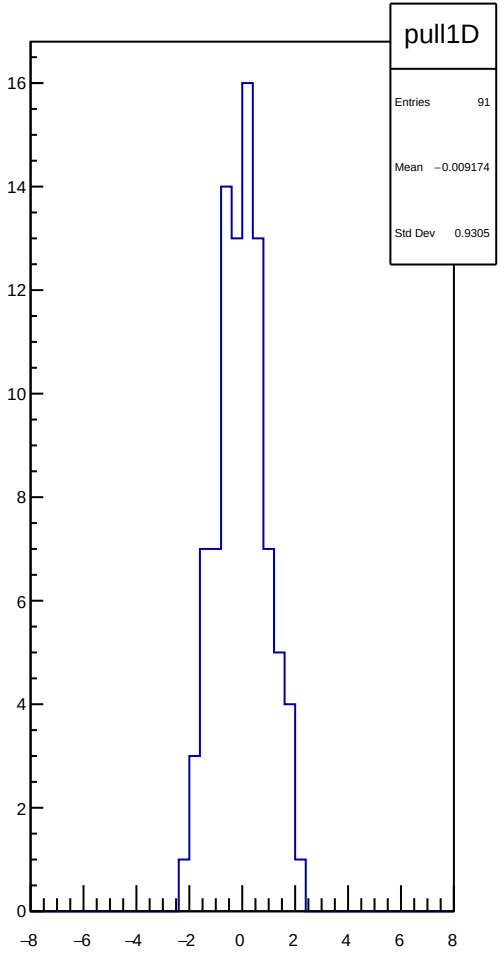

reg_asym_atl_avg_rms vs run
χ² / ndf 539.3 / 90
p0 1655 ± 1.249
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

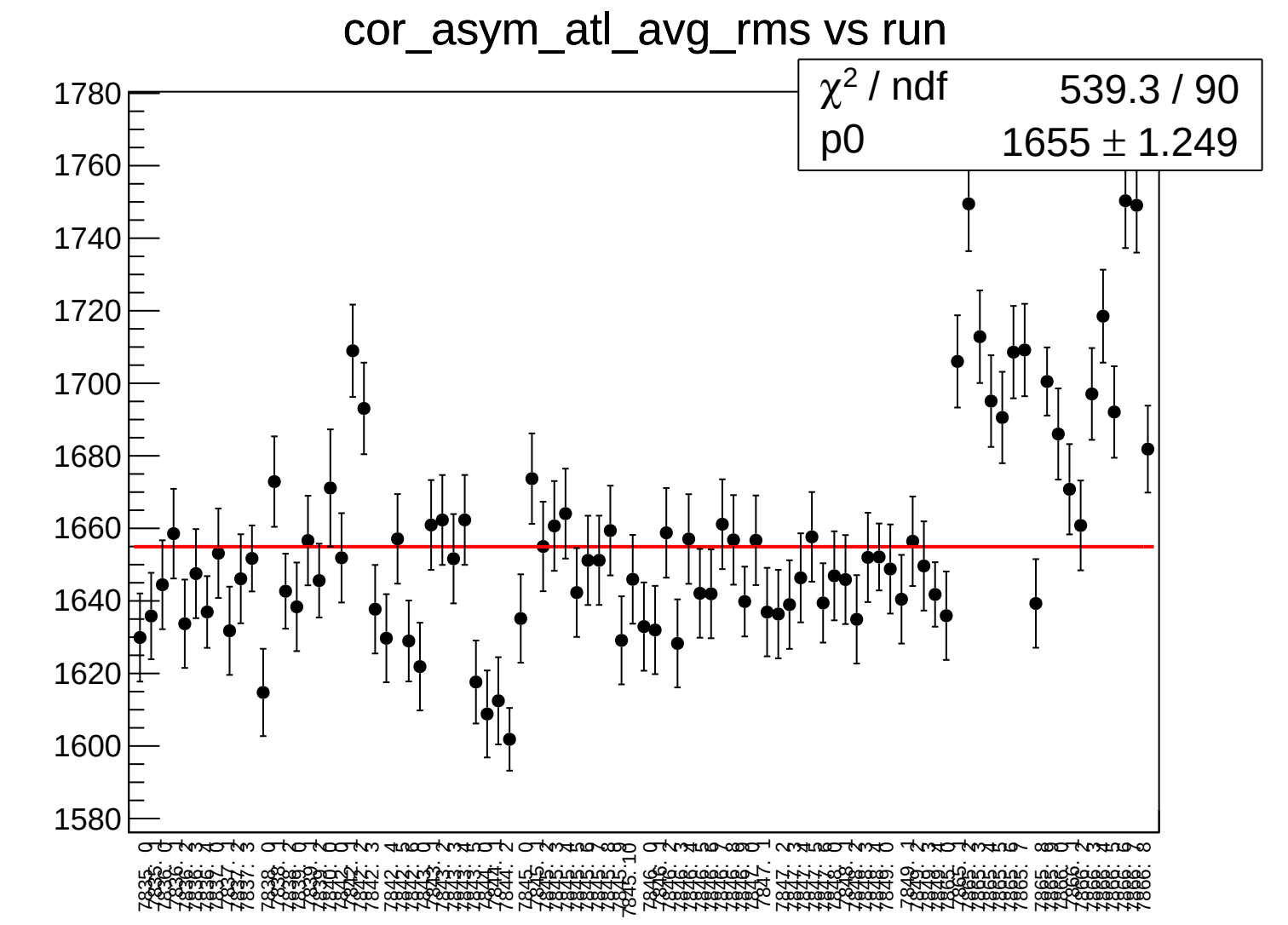

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 105.7 / 90
p0 −1.189e+04 ± 6245
×10³
300
200
100
0
−100
−200
pull
Entries 91
Mean −107.1
Std Dev 0
2
1
0
−1
−2

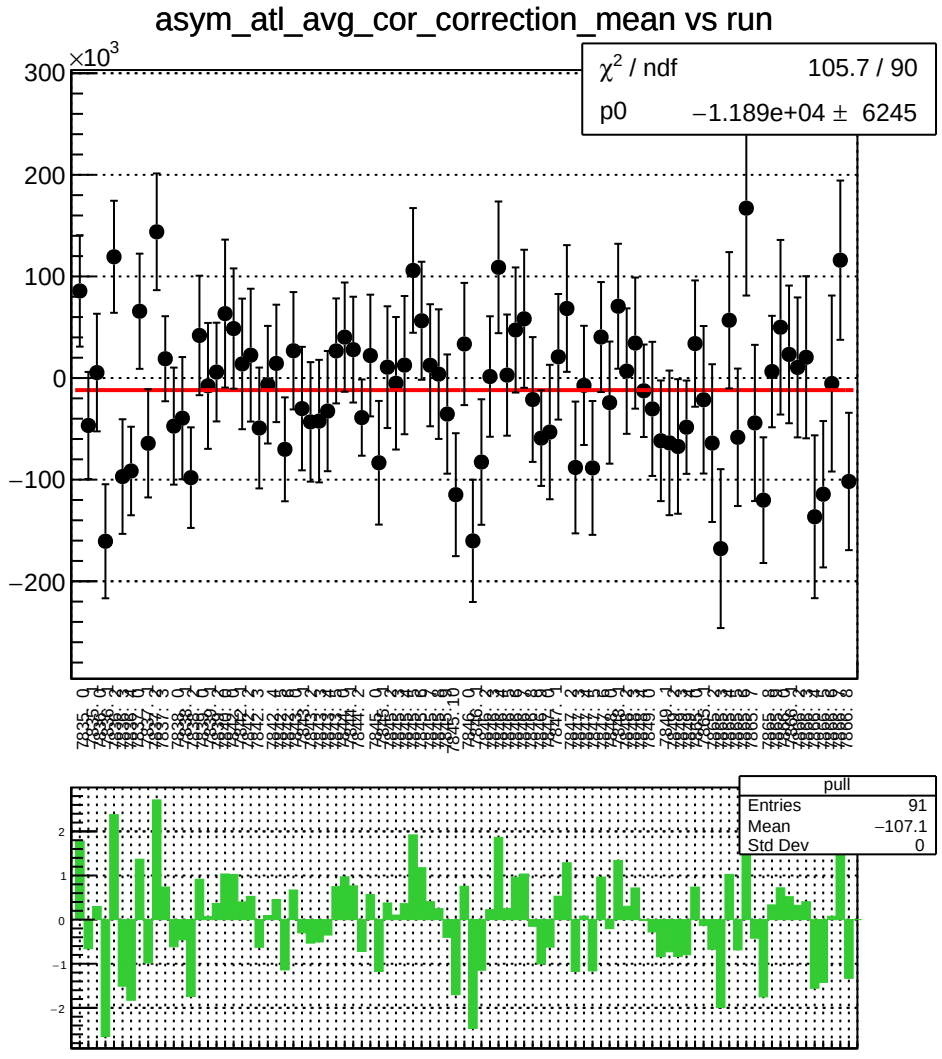

pull1D
Entries 91
Mean 0.01498
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

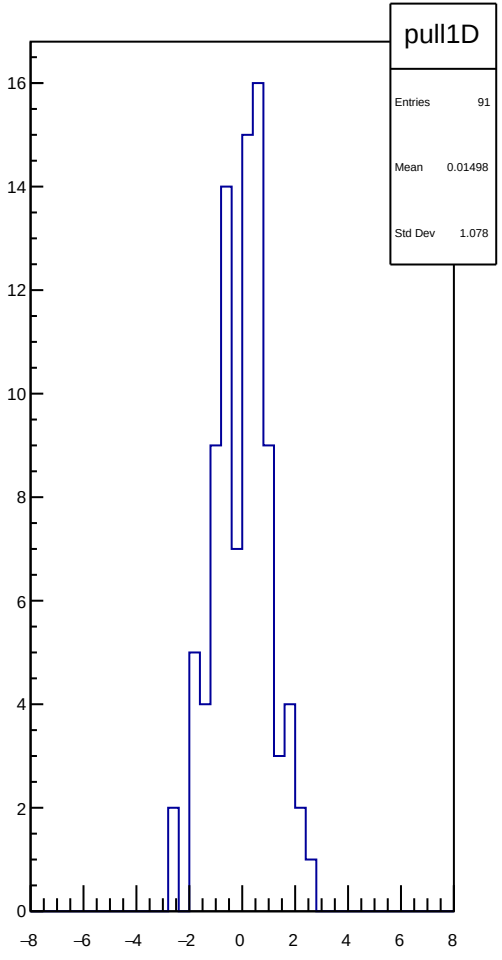

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2.003e+04 / 90
p0 5817 ± 4.416
8500
8000
7500
7000
6500
6000
5500
5000

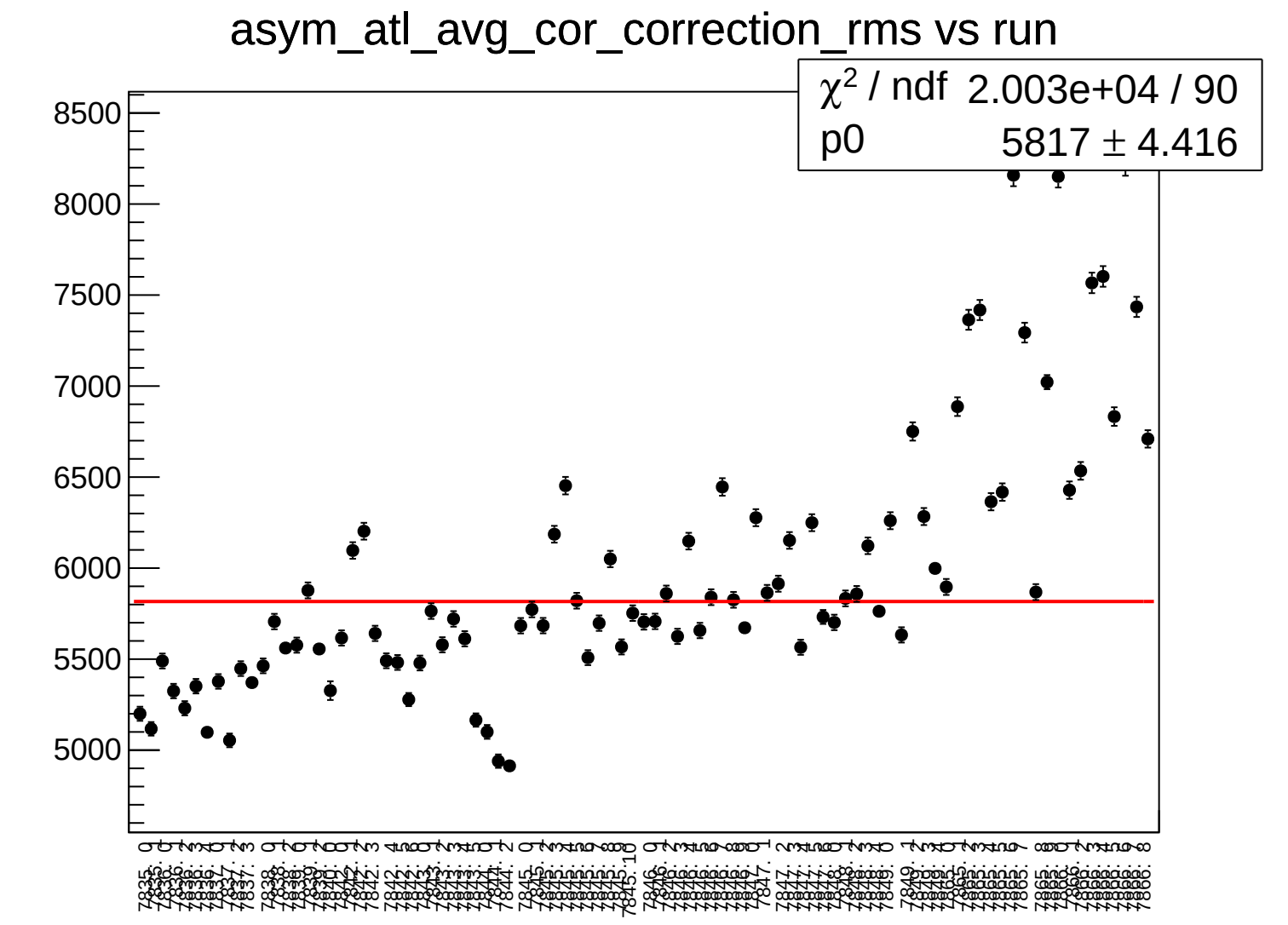

cor_asym_atl_avg_mean vs run
χ² / ndf 78.8 / 90
p0 2376 ± 1767
pull
Entries 91
Mean 45.74
Std Dev 0

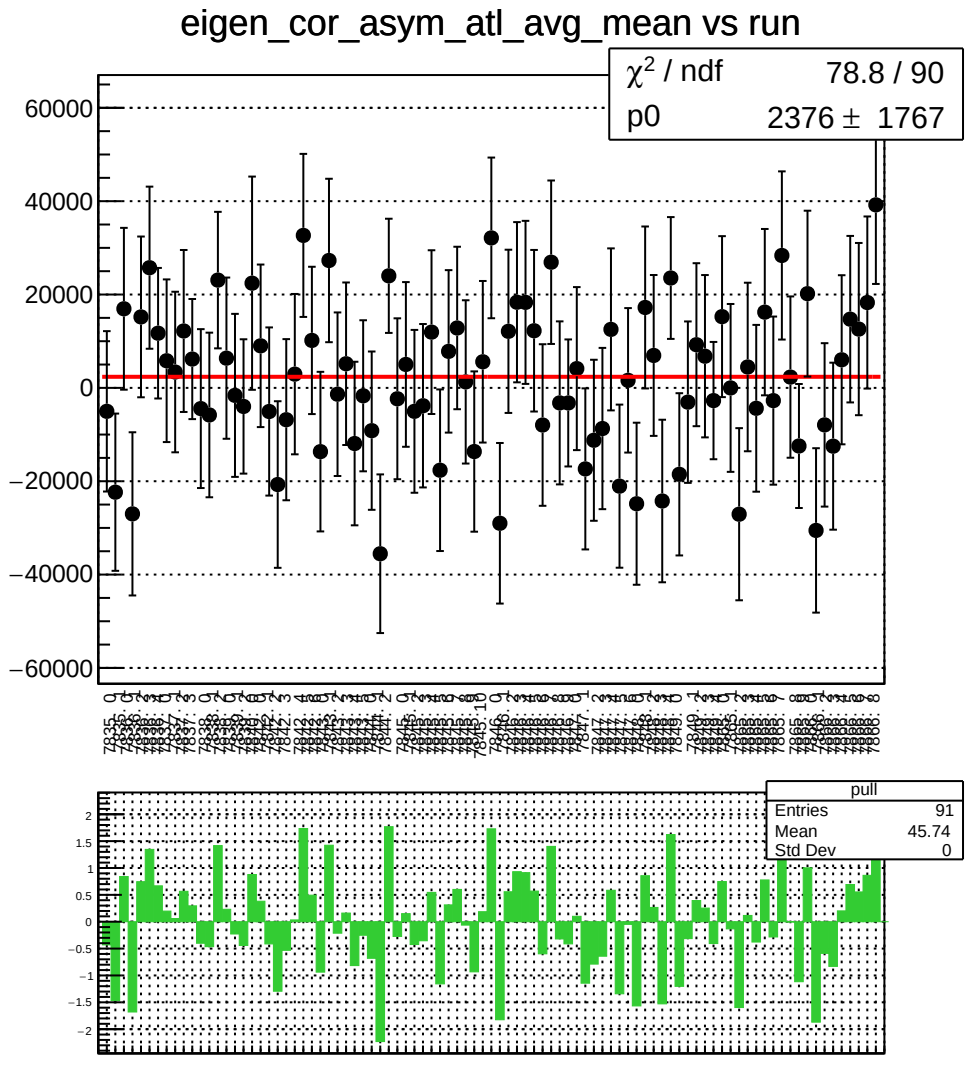

pull1D
Entries 91
Mean −0.009174
Std Dev 0.9305

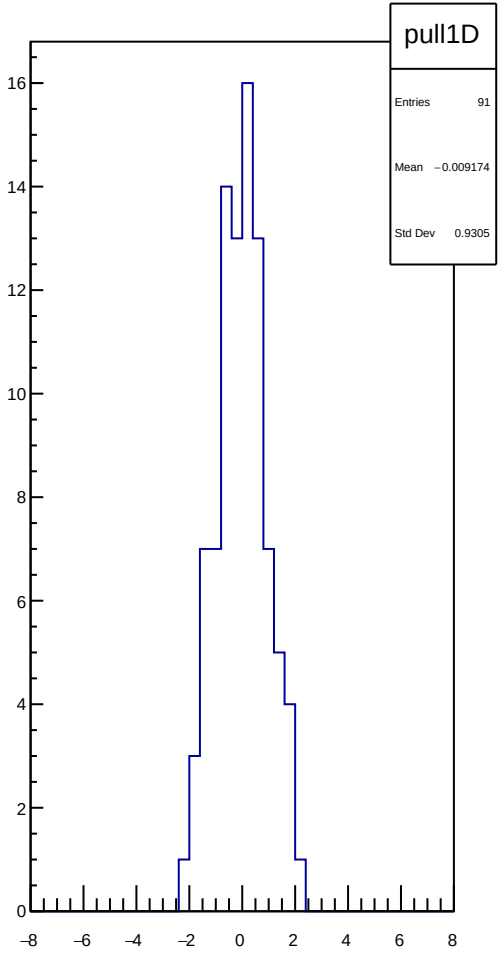

cor_asym_atl_avg_rms vs run
χ^2 / ndf 539.3 / 90
p0 1655 ± 1.249
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

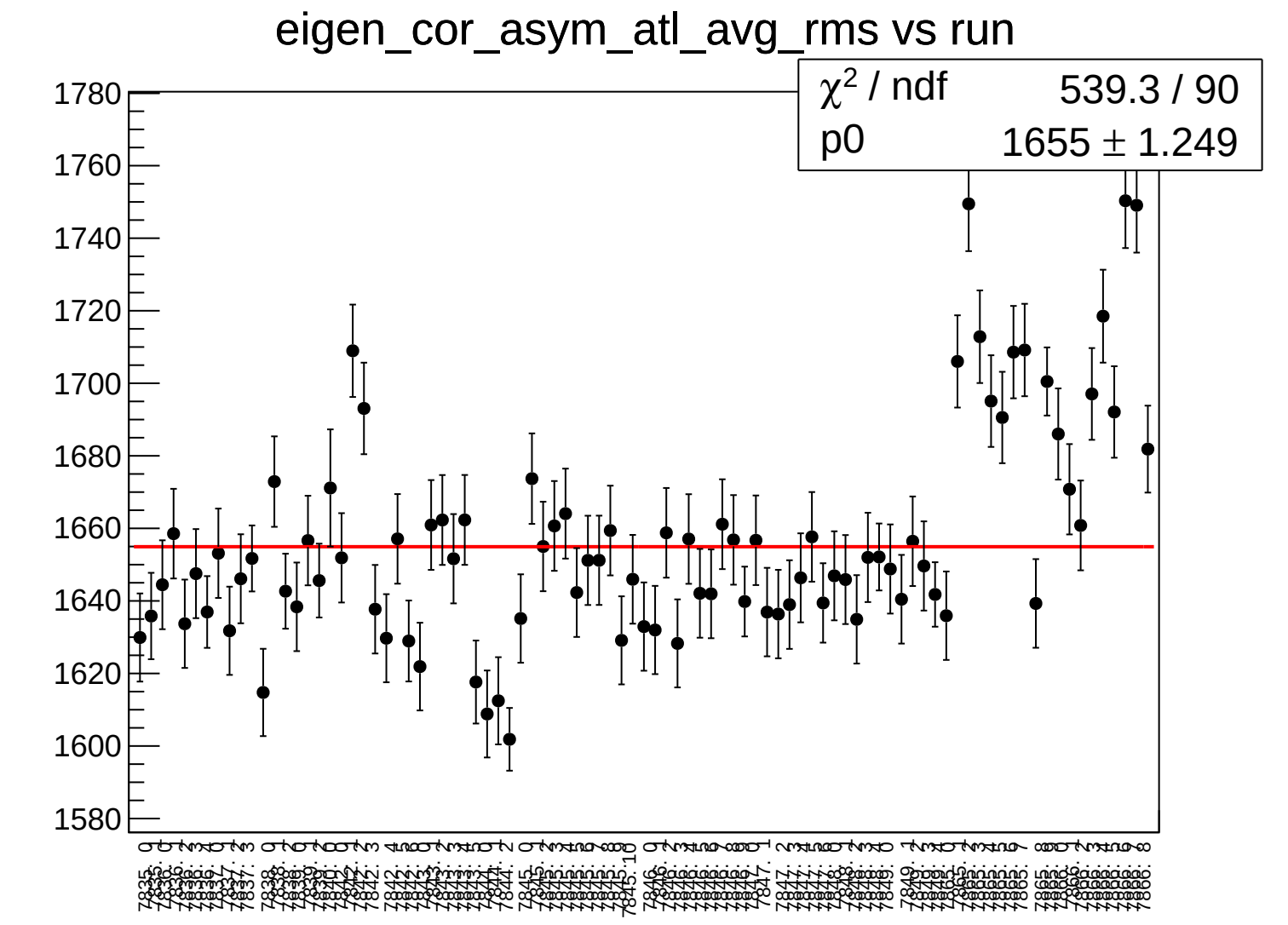

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 105.7 / 90
p0 −1.189e+04 ± 6245
×10³
300
200
100
0
−100
−200
pull
Entries 91
Mean −107.1
Std Dev 0
2
1
0
−1
−2

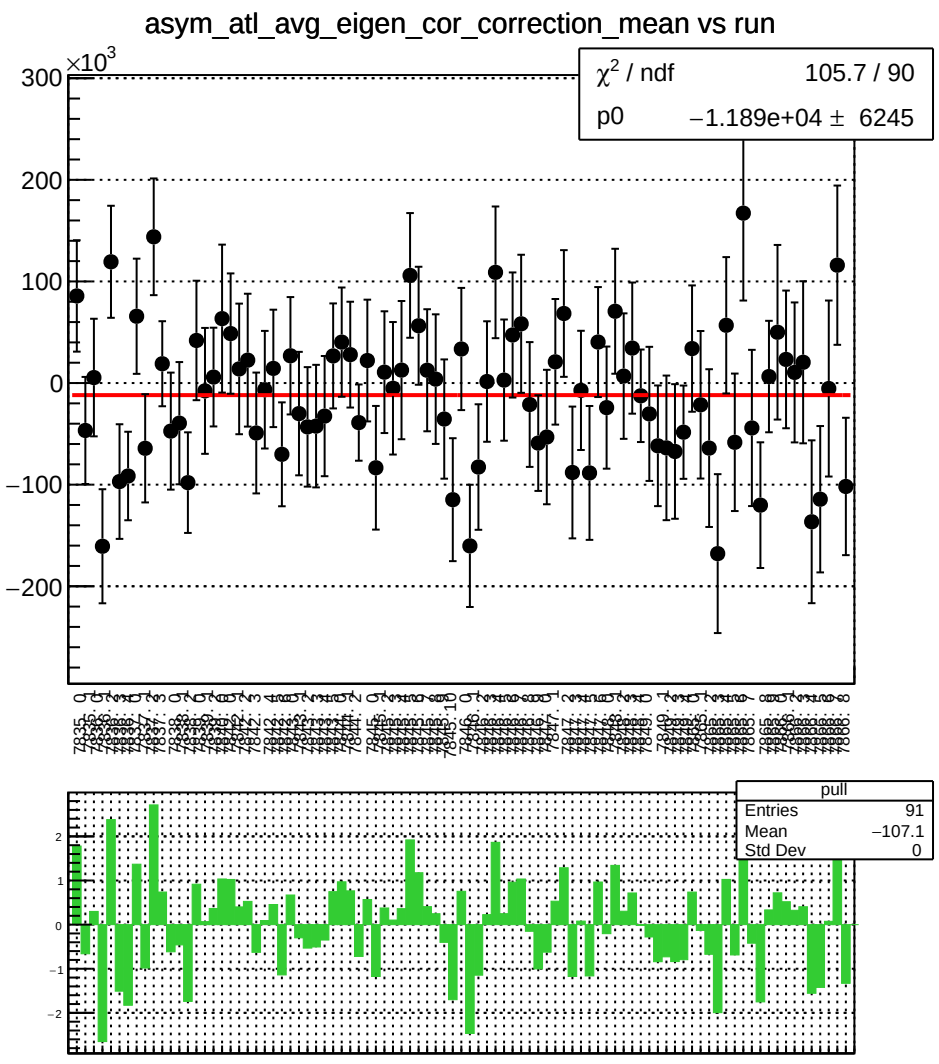

pull1D
Entries 91
Mean 0.01498
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

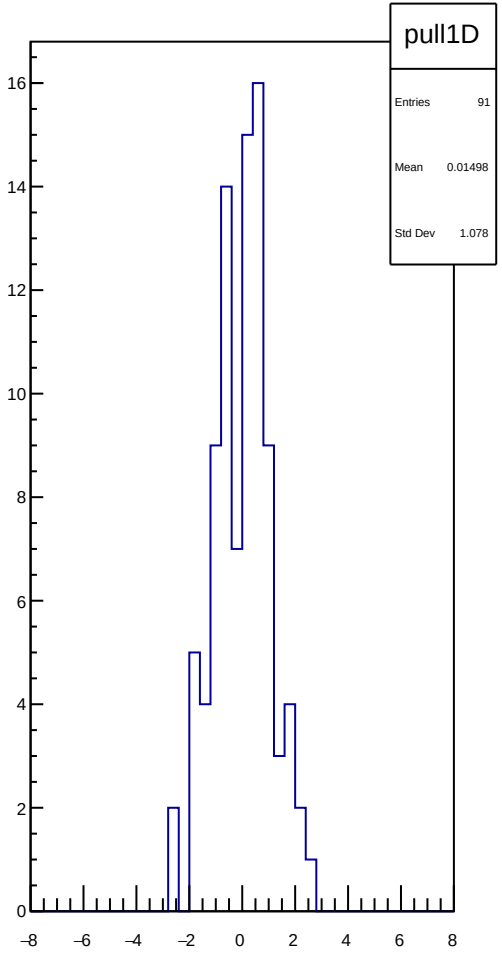

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2.003e+04 / 90
p0 5817 ± 4.416
8500
8000
7500
7000
6500
6000
5500
5000

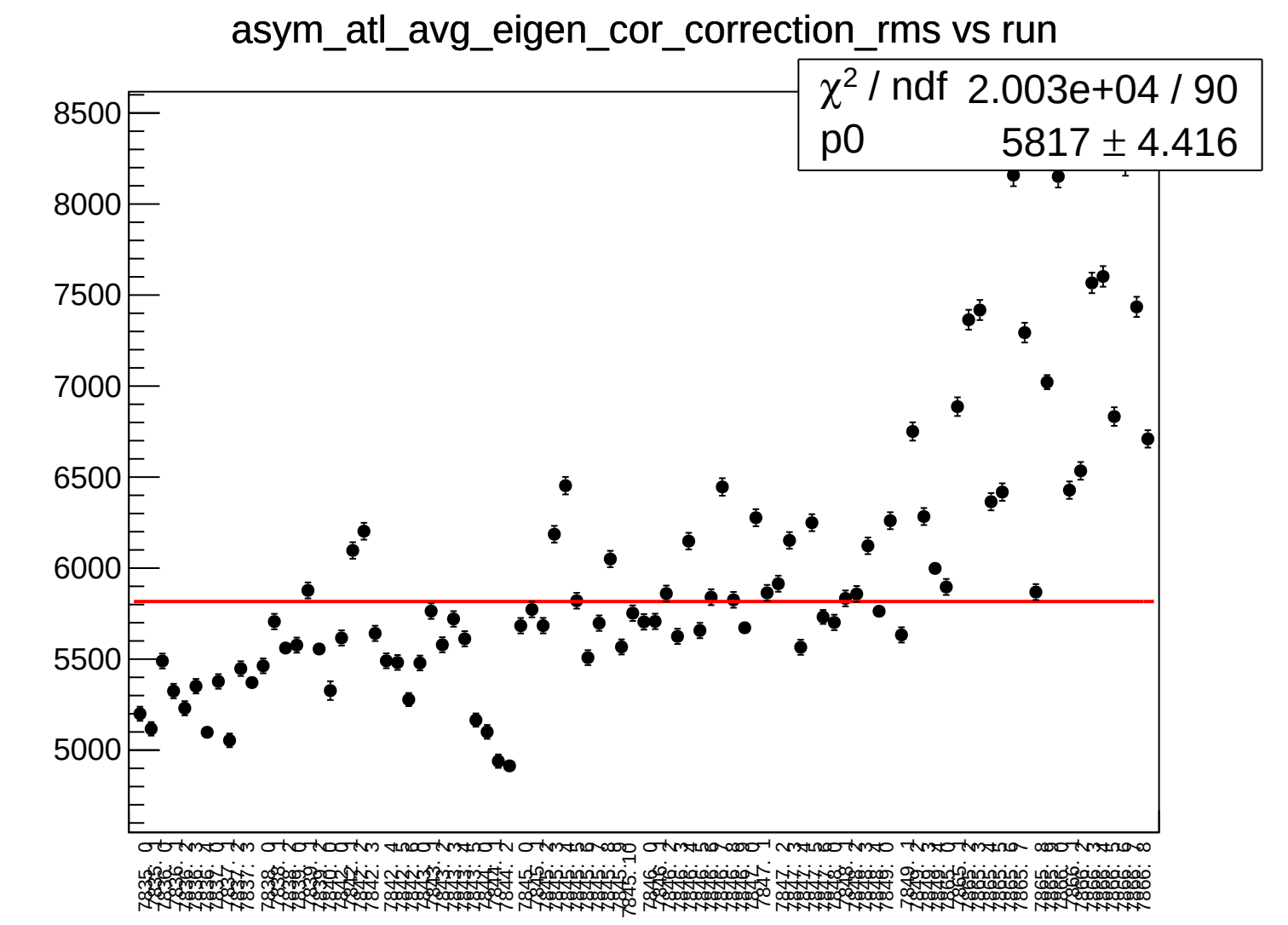

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 78.8 / 90
p0 2376 ± 1767
pull
Entries 91
Mean 45.74
Std Dev 0

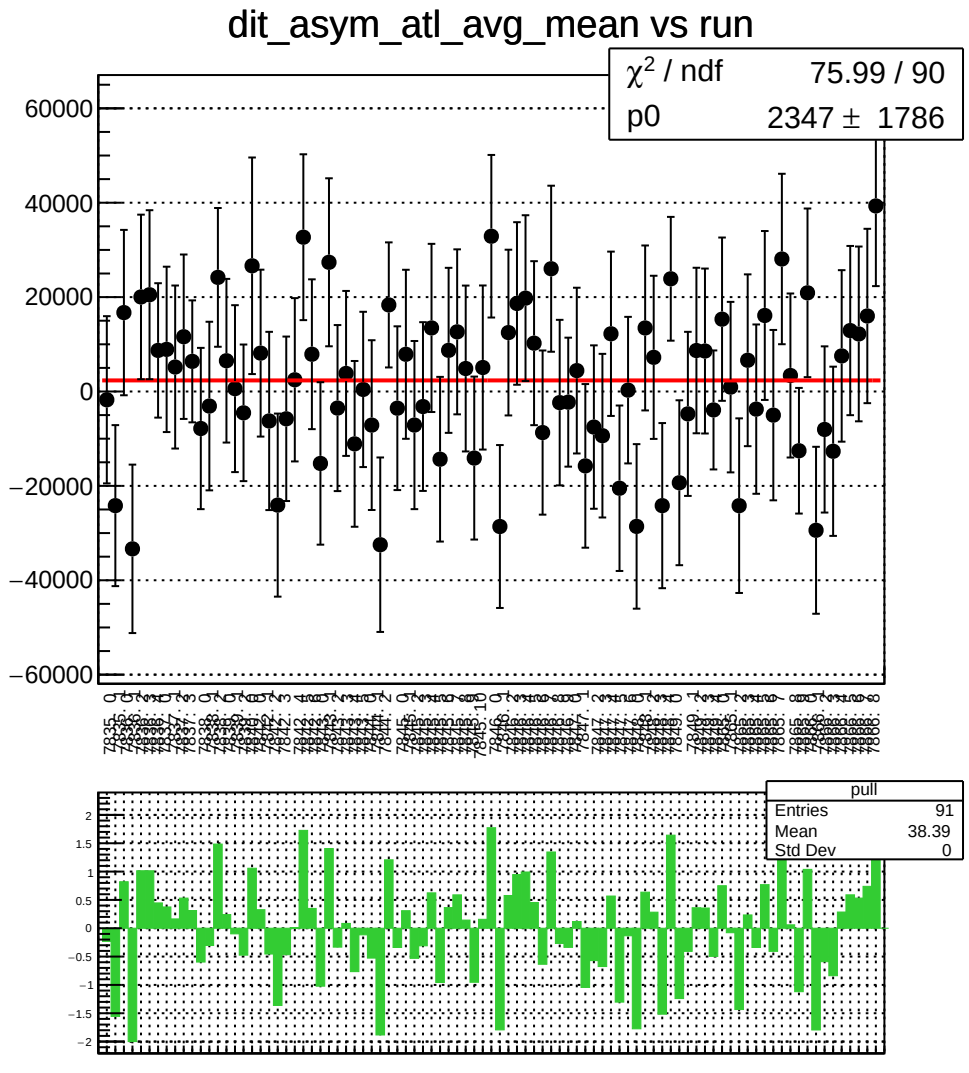

pull1D
Entries 91
Mean −0.009174
Std Dev 0.9305

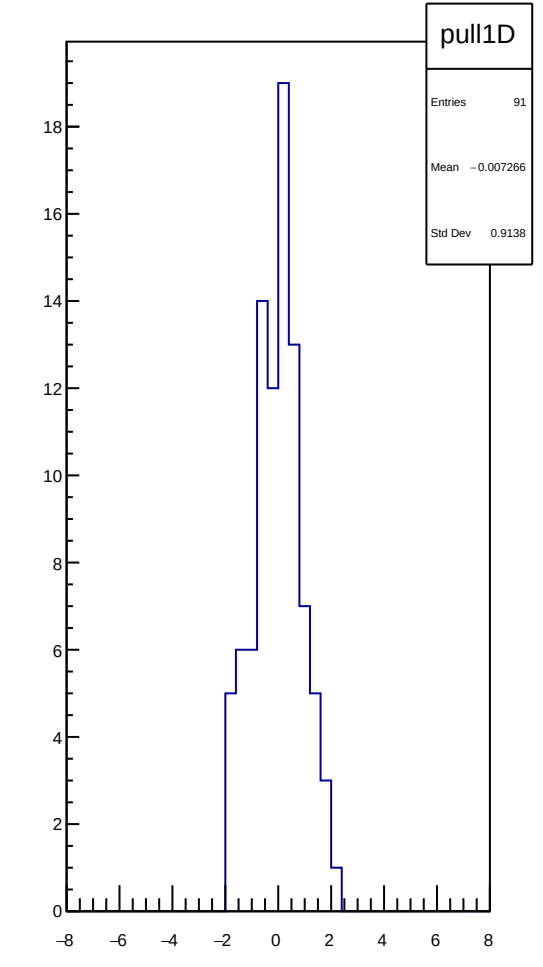

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 539.3 / 90
p0 1655 ± 1.249
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

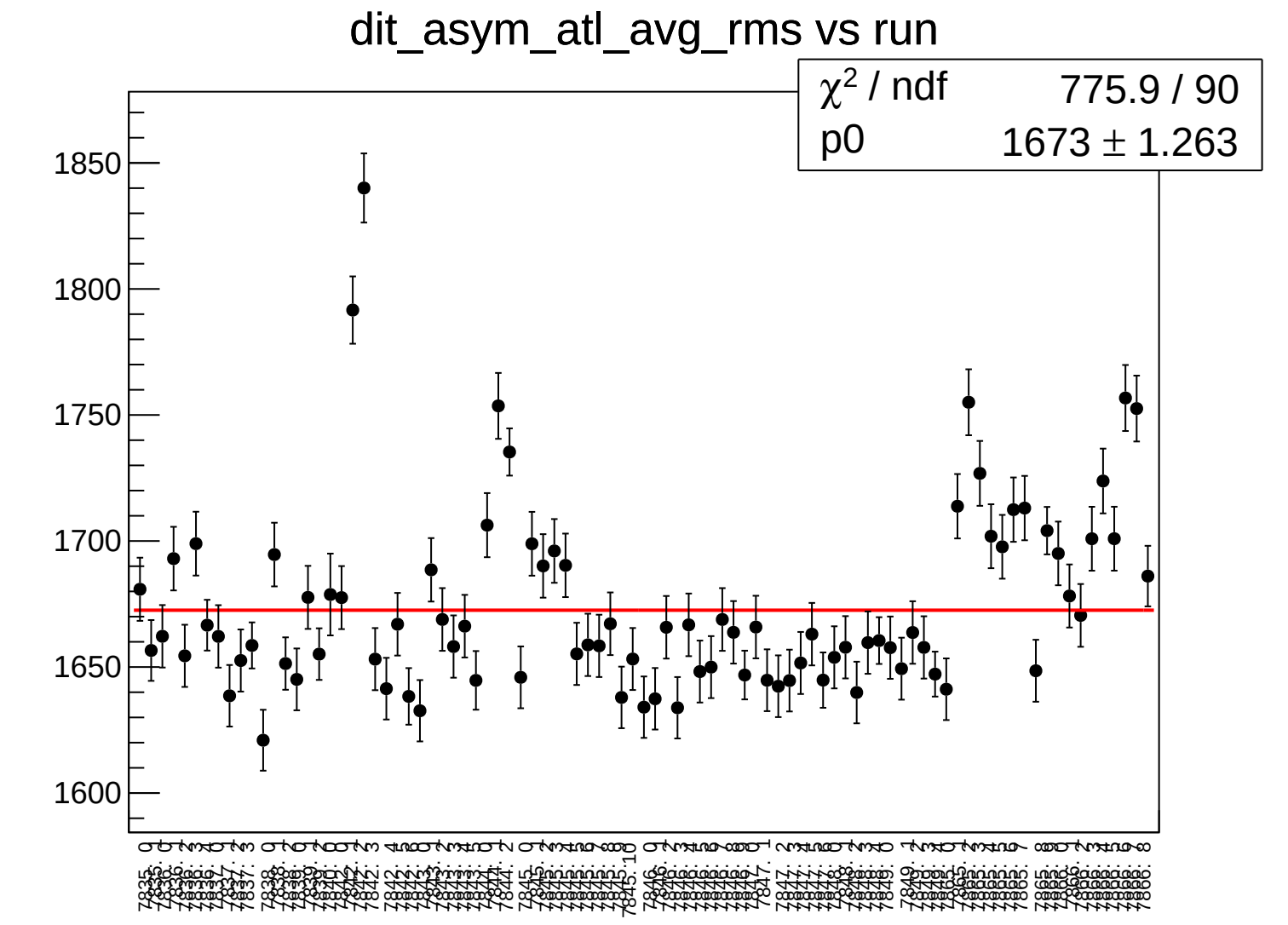

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.7 / 90
p0 −1.189e+04 ± 6245
×10³
300
200
100
0
−100
−200
pull
Entries 91
Mean −107.1
Std Dev 0
2
1
0
−1
−2

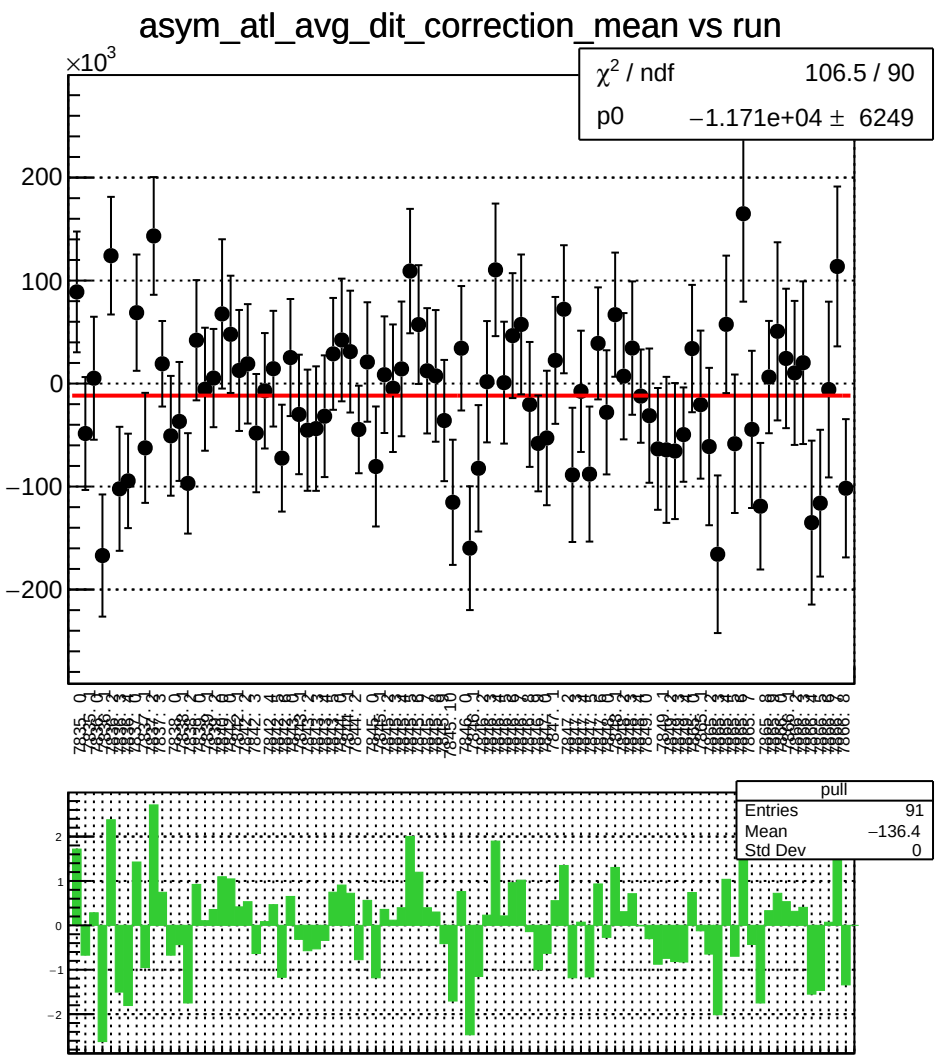

pull1D
Entries 91
Mean 0.01498
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

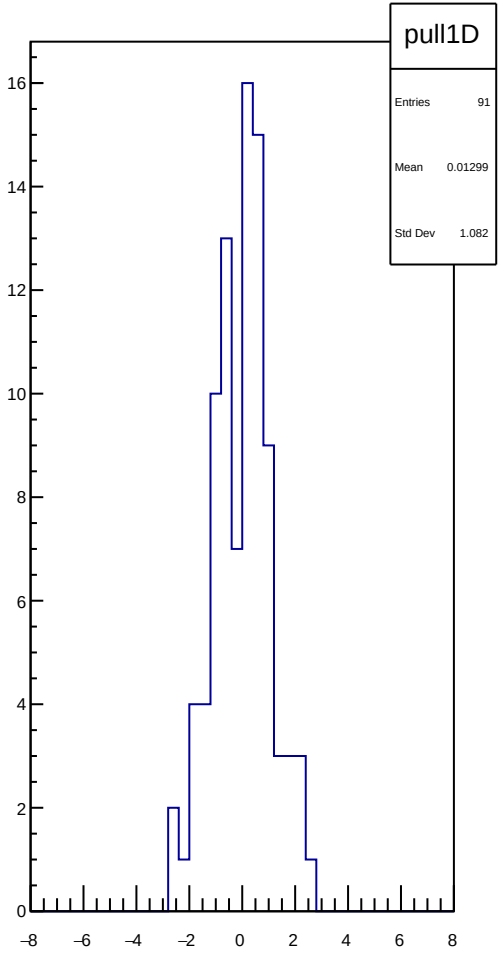

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.003e+04 / 90
p0 5817 ± 4.416
8500
8000
7500
7000
6500
6000
5500
5000

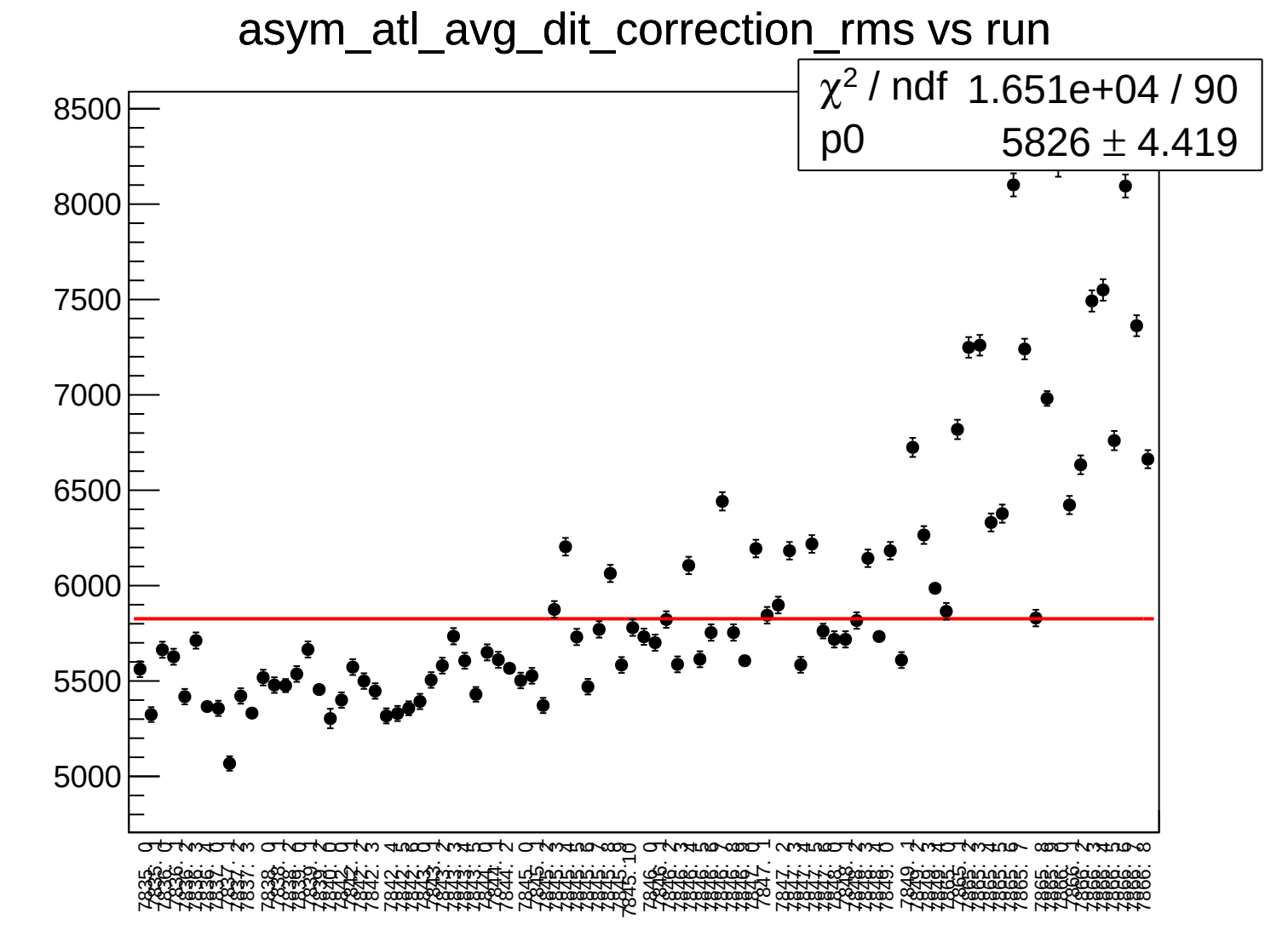

dit_asym_atl_avg_mean vs run
χ² / ndf 75.99 / 90
p0 2347 ± 1786
pull
Entries 91
Mean 38.39
Std Dev 0

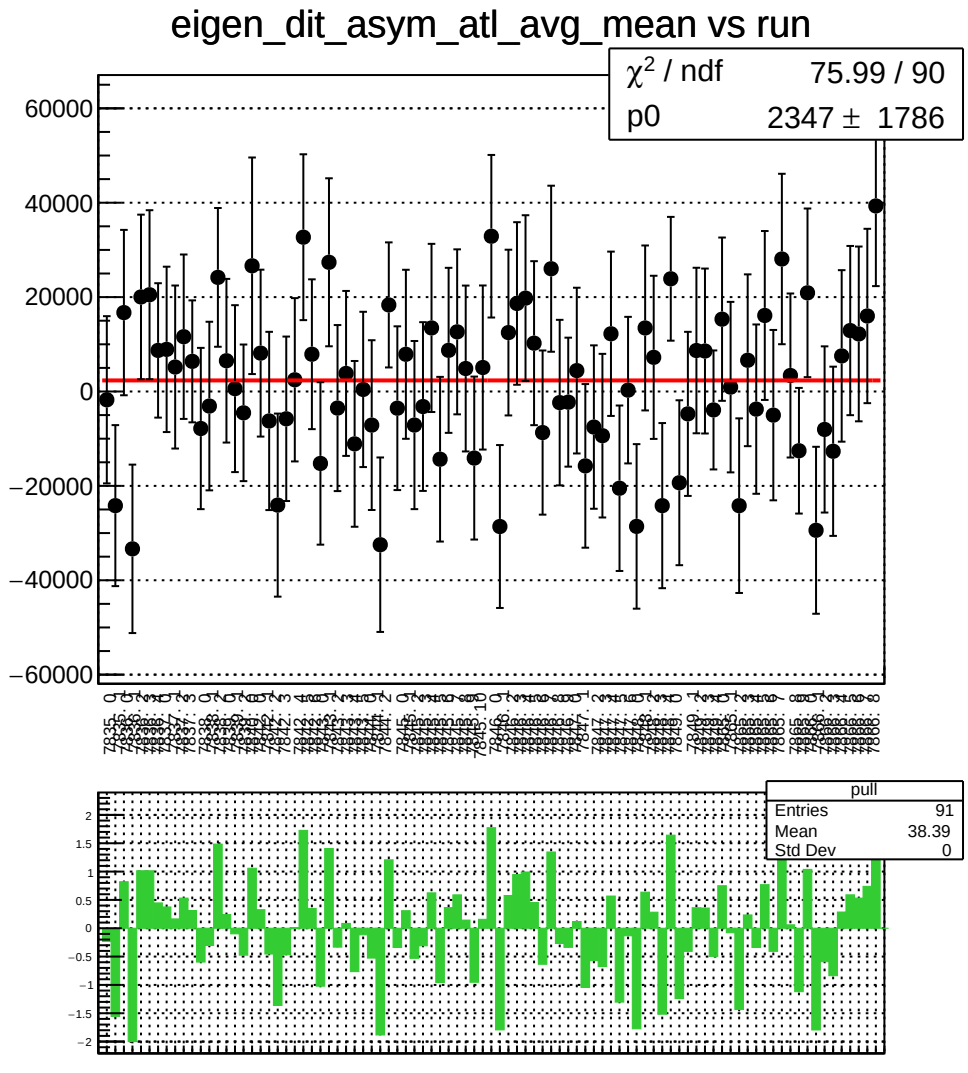

pull1D
Entries 91
Mean −0.007266
Std Dev 0.9138

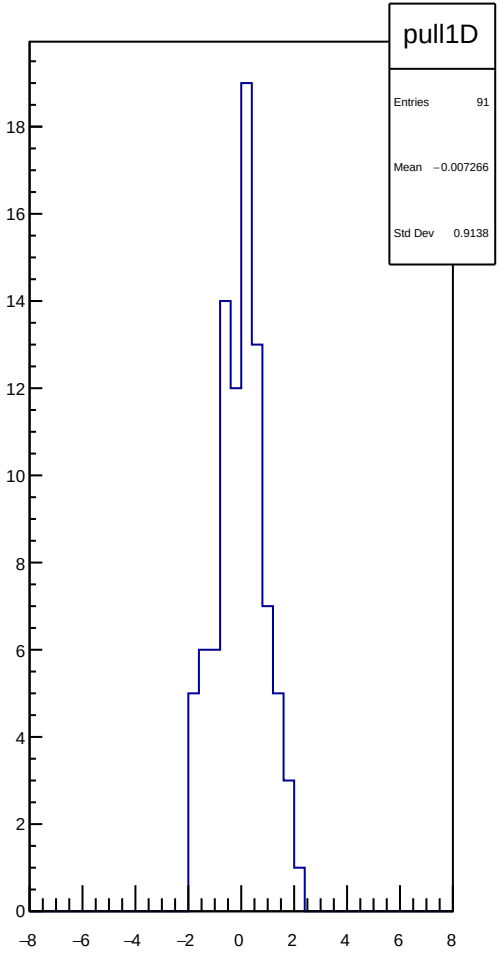

dit_asym_atl_avg_rms vs run
χ² / ndf 775.9 / 90
p0 1673 ± 1.263
1850
1800
1750
1700
1650
1600

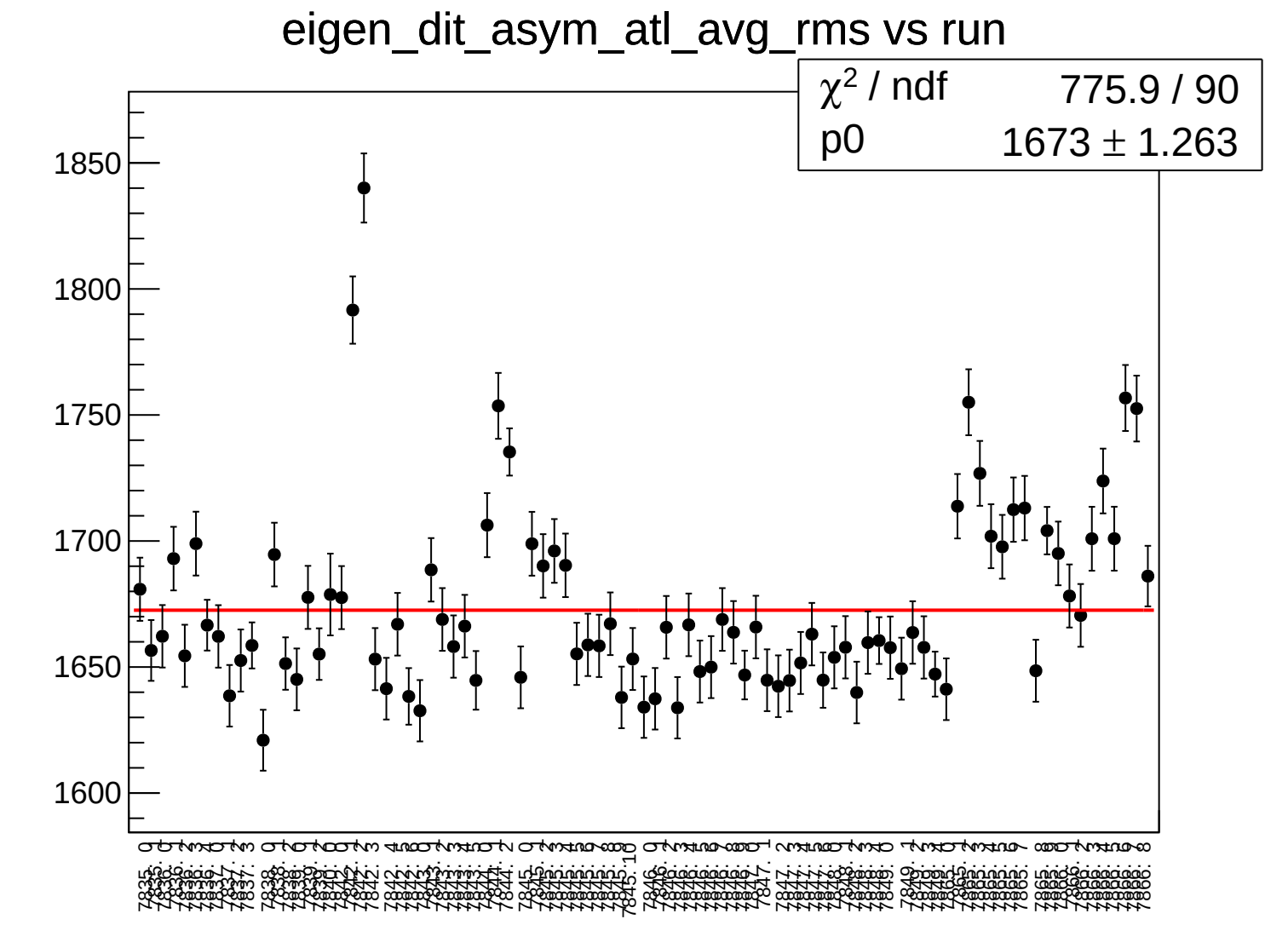

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 90
p0 −1.171e+04 ± 6249
200
100
0
−100
−200
pull
Entries 91
Mean −136.4
Std Dev 0
2
1
0
−1
−2

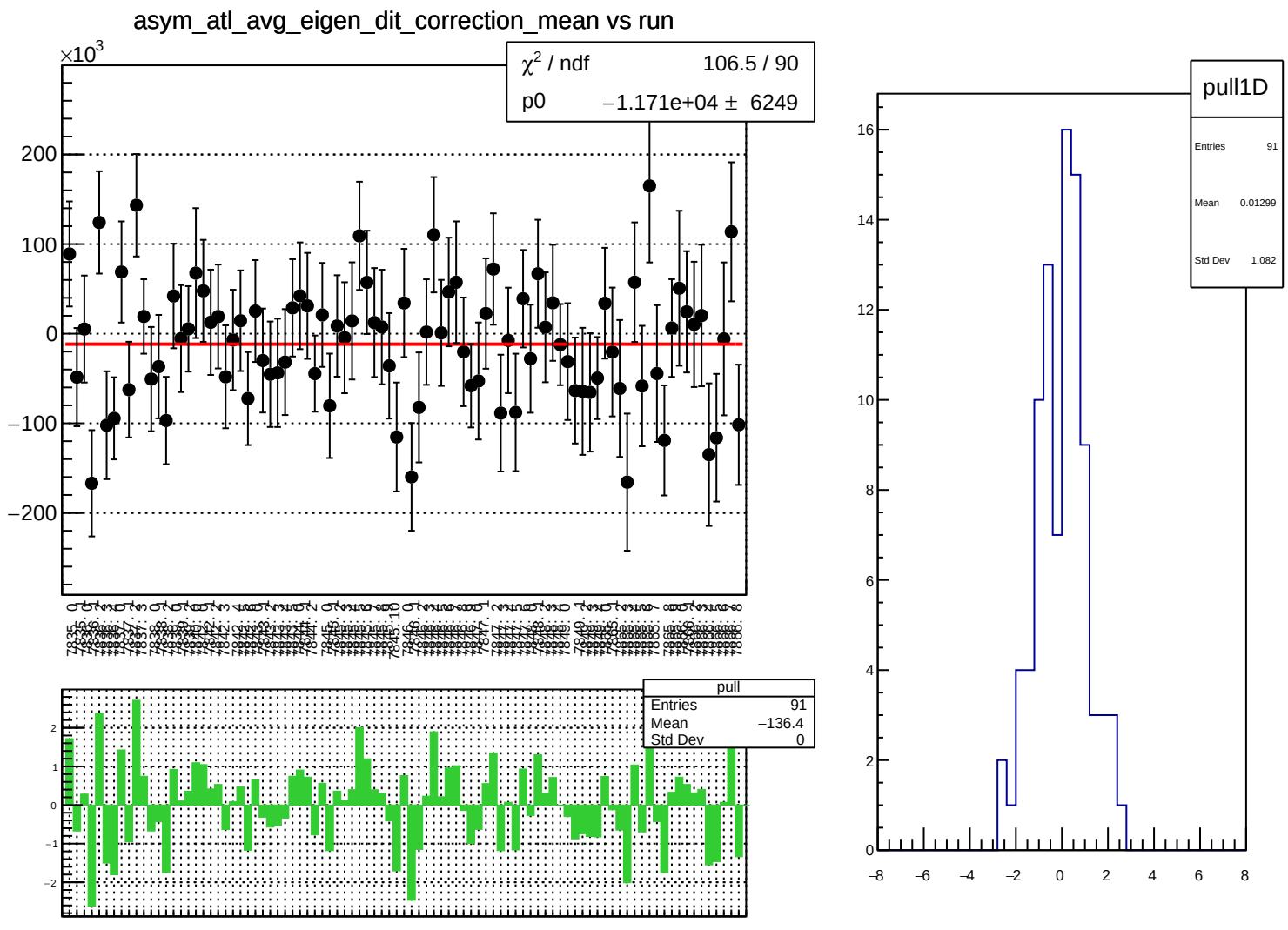

pull1D
Entries 91
Mean 0.01299
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

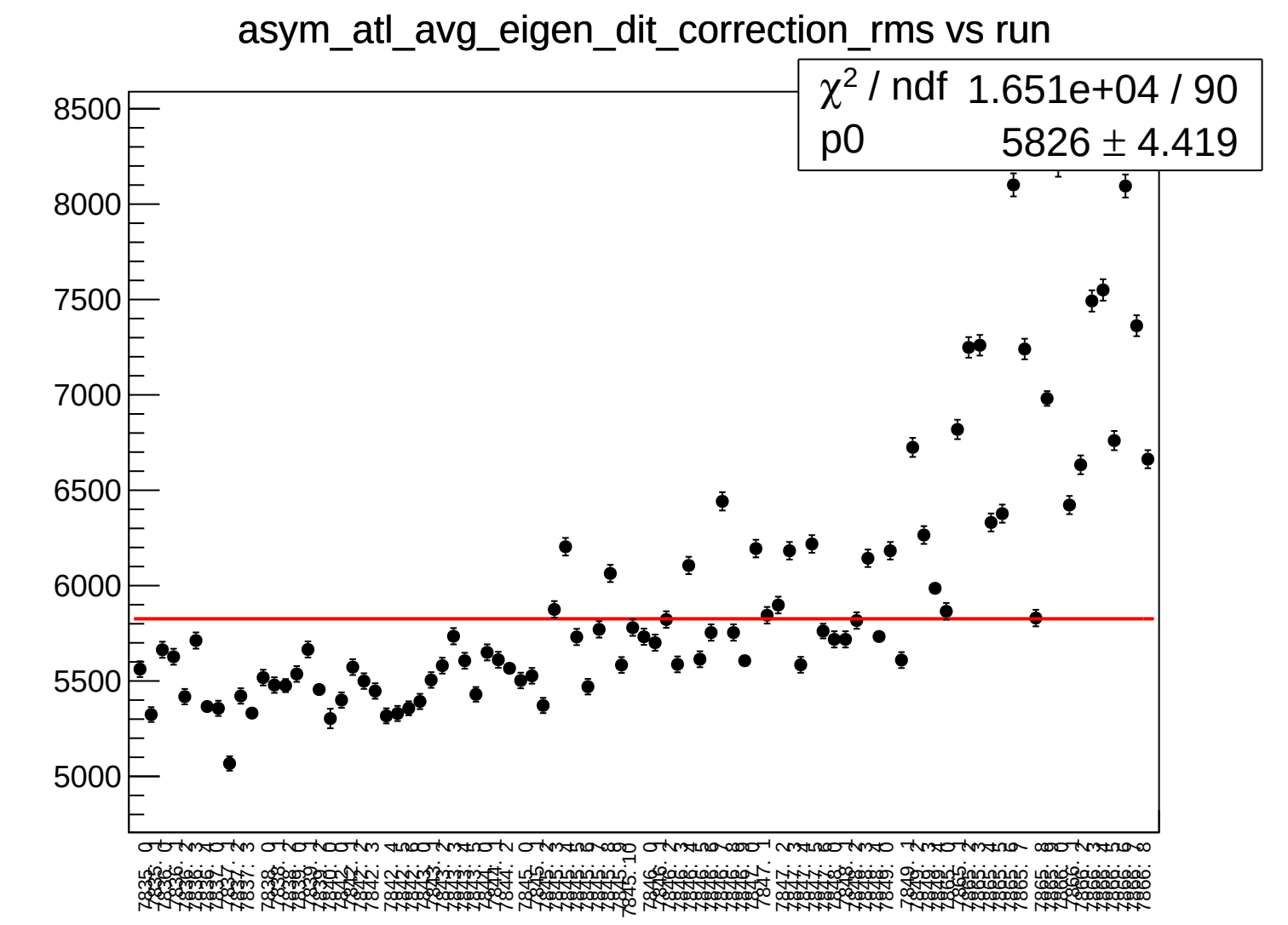

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.651e+04 / 90
p0 5826 ± 4.419
8500
8000
7500
7000
6500
6000
5500
5000

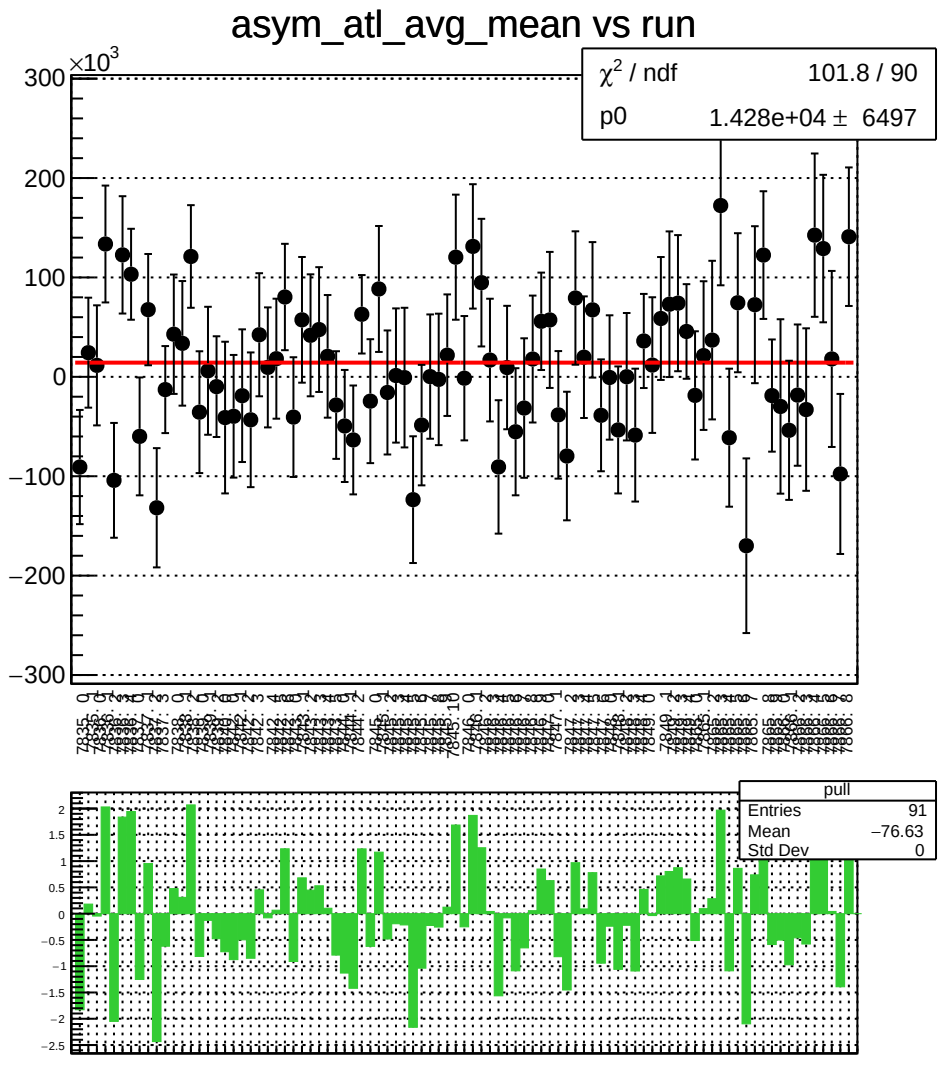

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 75.99 / 90
p0 2347 ± 1786
pull
Entries 91
Mean 38.39
Std Dev 0

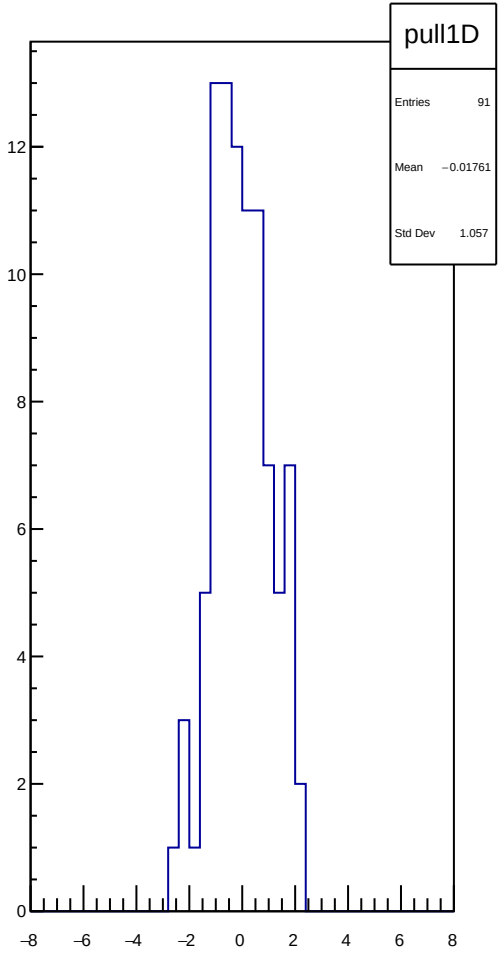

pull1D
Entries 91
Mean −0.007266
Std Dev 0.9138

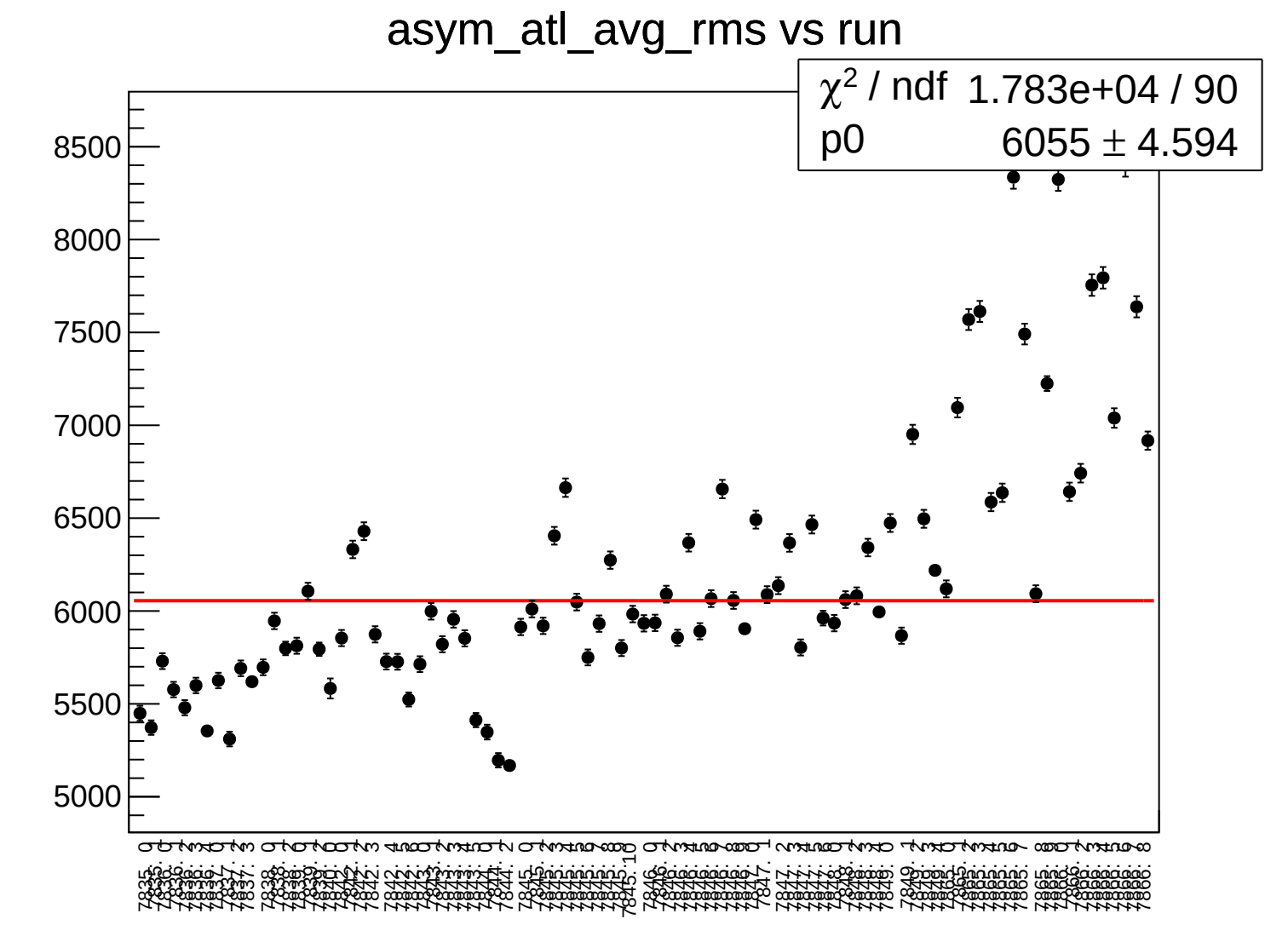

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 775.9 / 90
p0 1673 ± 1.263
1850
1800
1750
1700
1650
1600

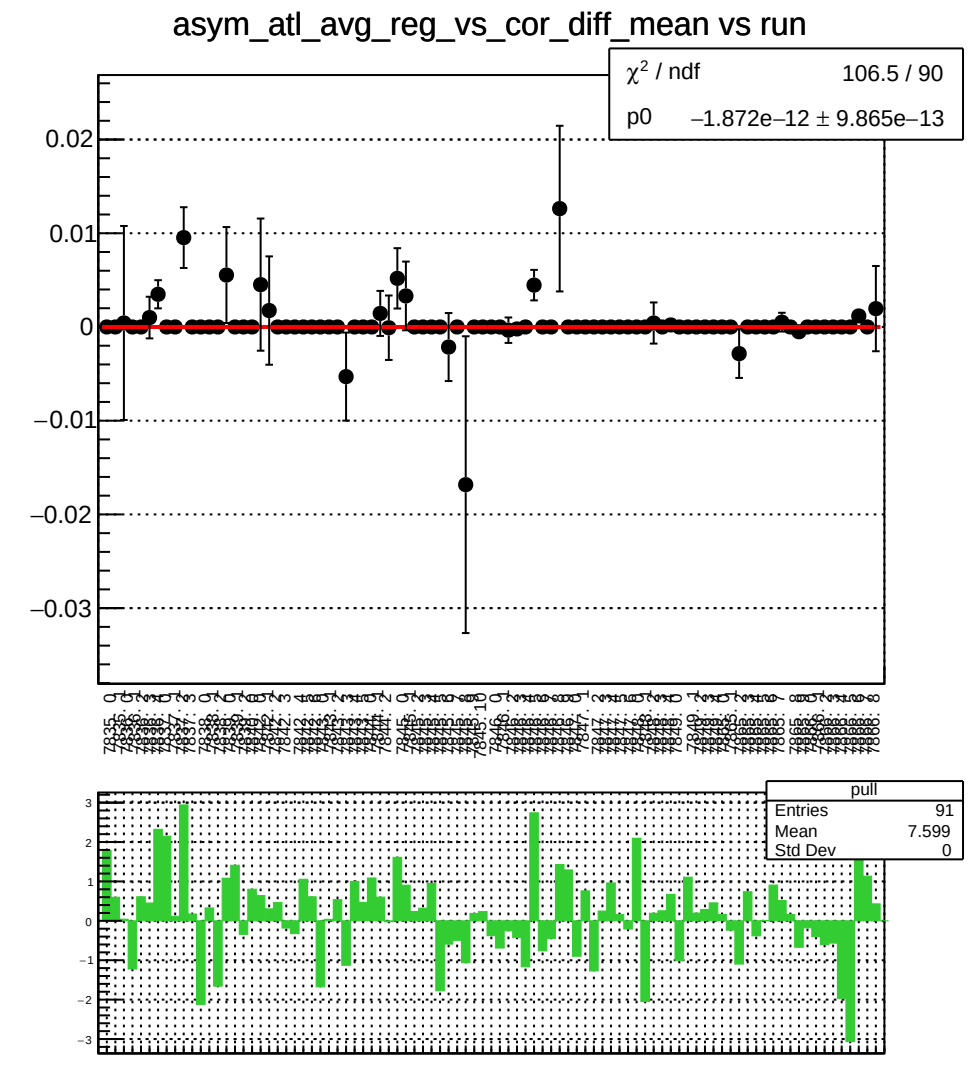

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 90
p0 −1.171e+04 ± 6249
200
100
0
−100
−200
pull
Entries 91
Mean −136.4
Std Dev 0
pull1D
Entries 91
Mean 0.01299
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

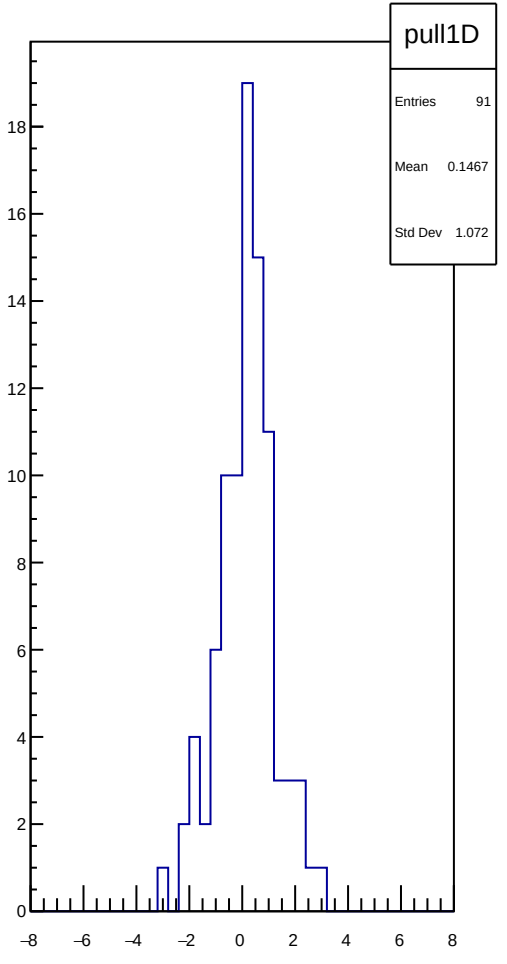

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.651e+04 / 90
p0 5826 ± 4.419
8500
8000
7500
7000
6500
6000
5500
5000

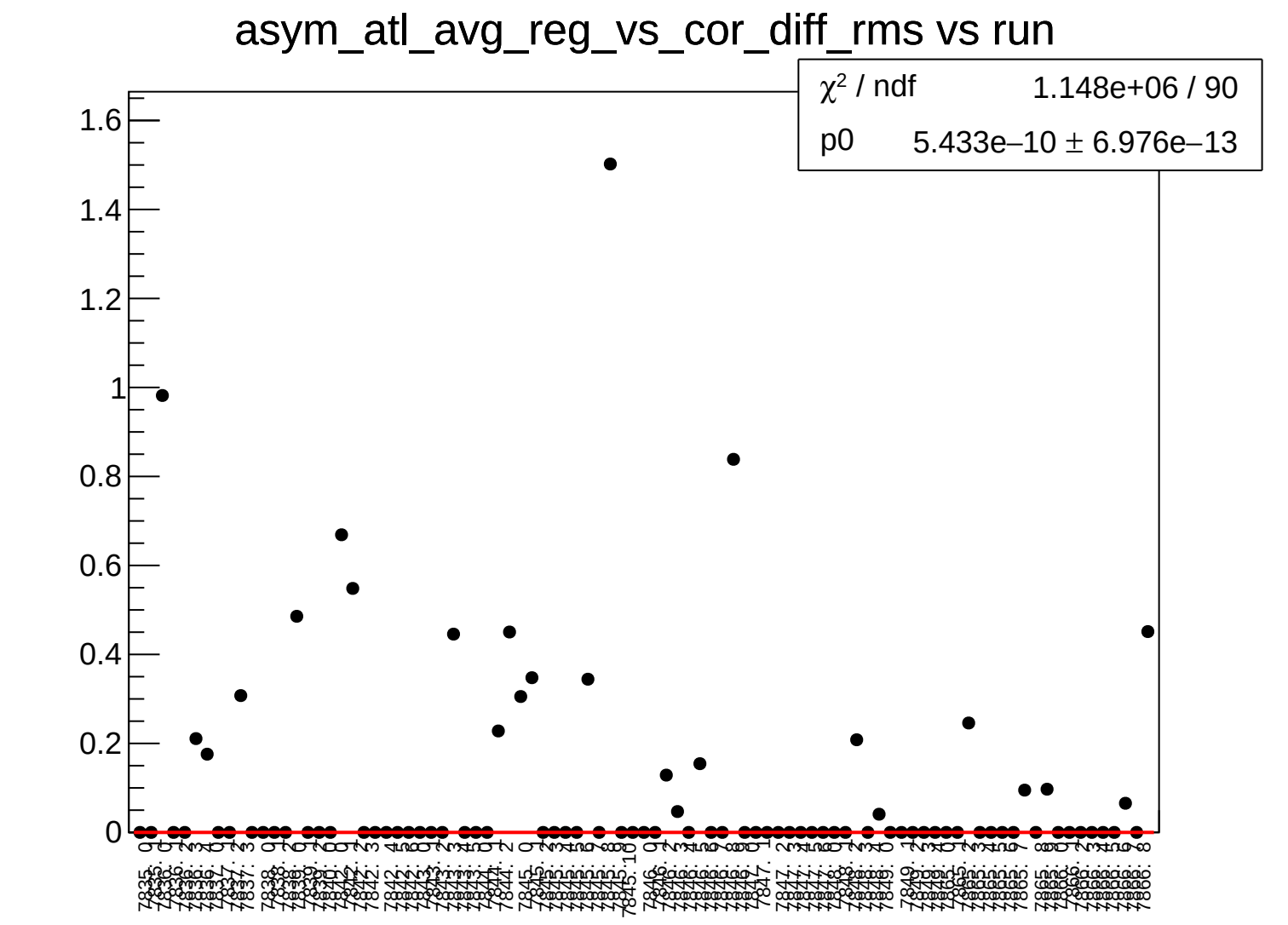

asym_atl_avg_mean vs run
×10^3
χ² / ndf 101.8 / 90
p0 1.428e+04 ± 6497
pull
Entries 91
Mean −76.63
Std Dev 0

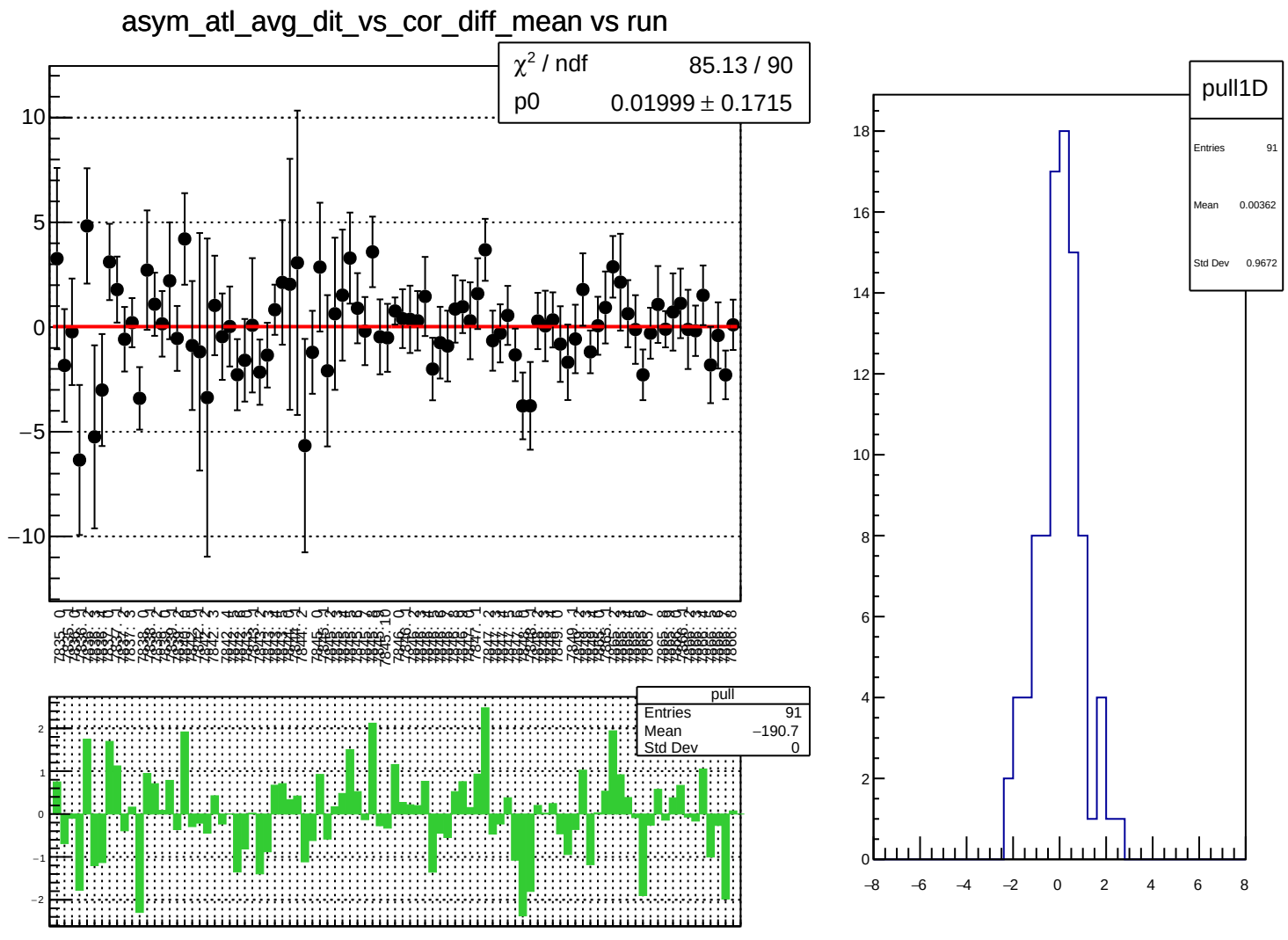

pull1D
Entries 91
Mean −0.01761
Std Dev 1.057

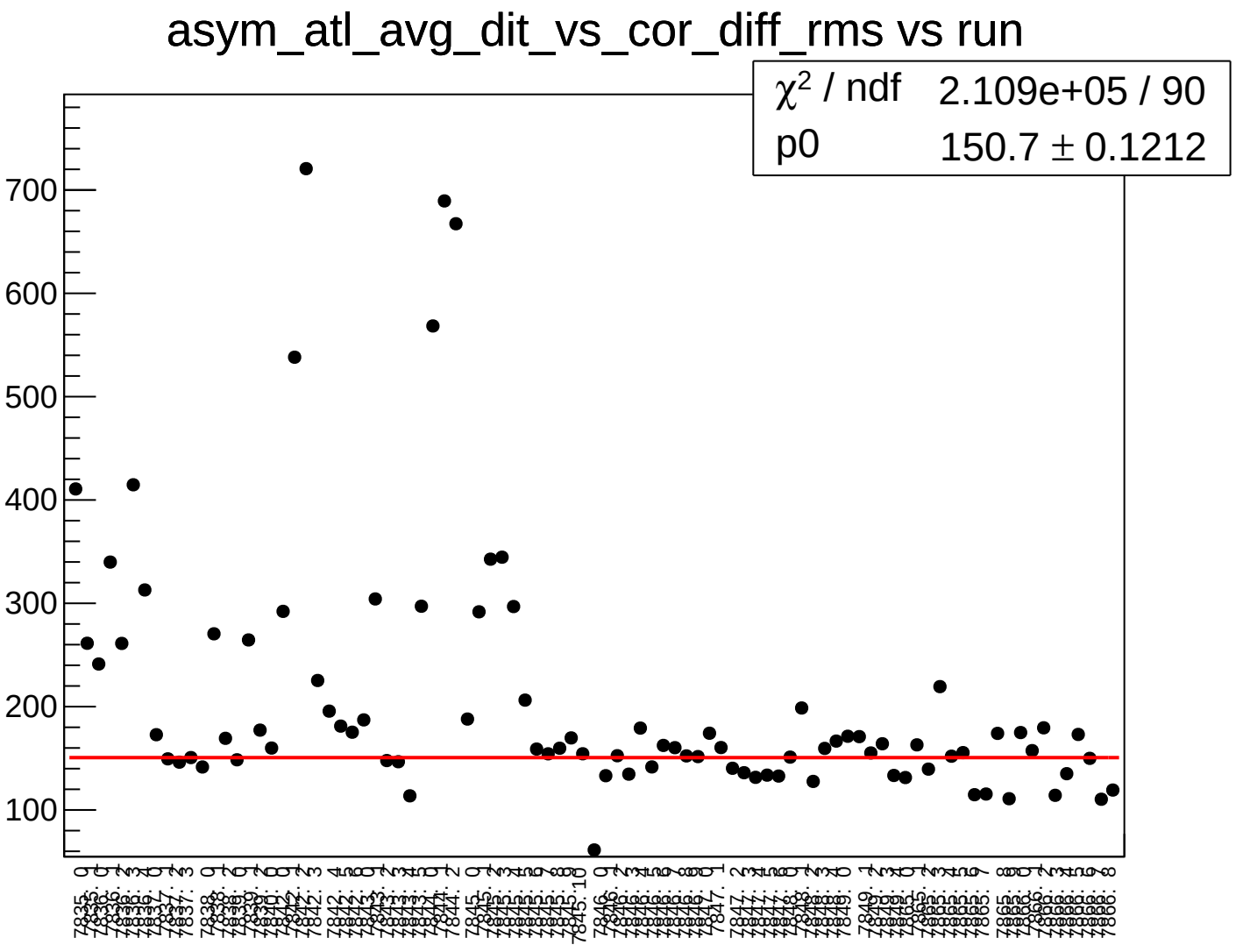

asym_atl_avg_rms vs run
χ² / ndf 1.783e+04 / 90
p0 6055 ± 4.594
8500
8000
7500
7000
6500
6000
5500
5000

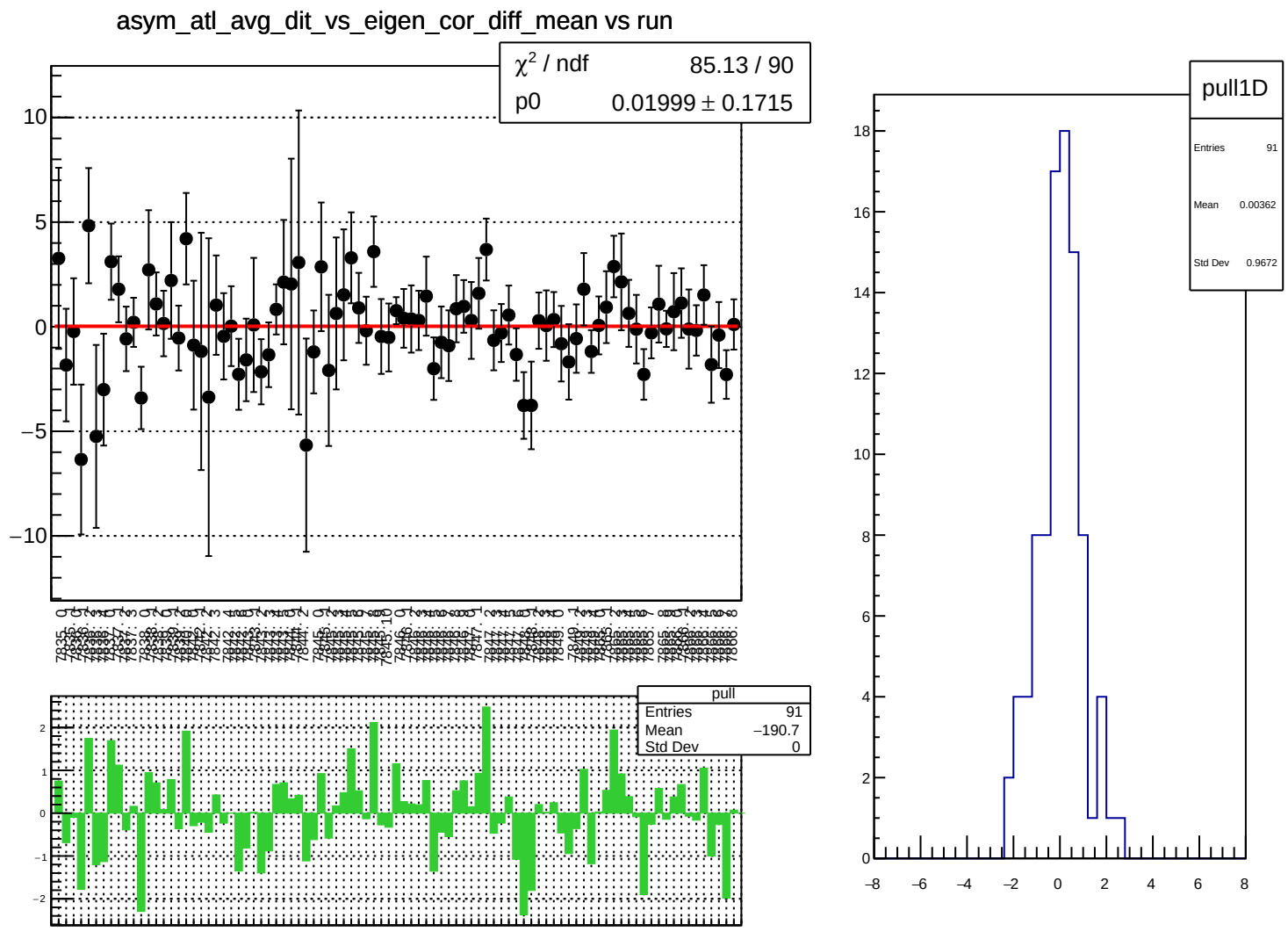

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 90
p0 −1.872e−12 ± 9.865e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 7.599
Std Dev 0

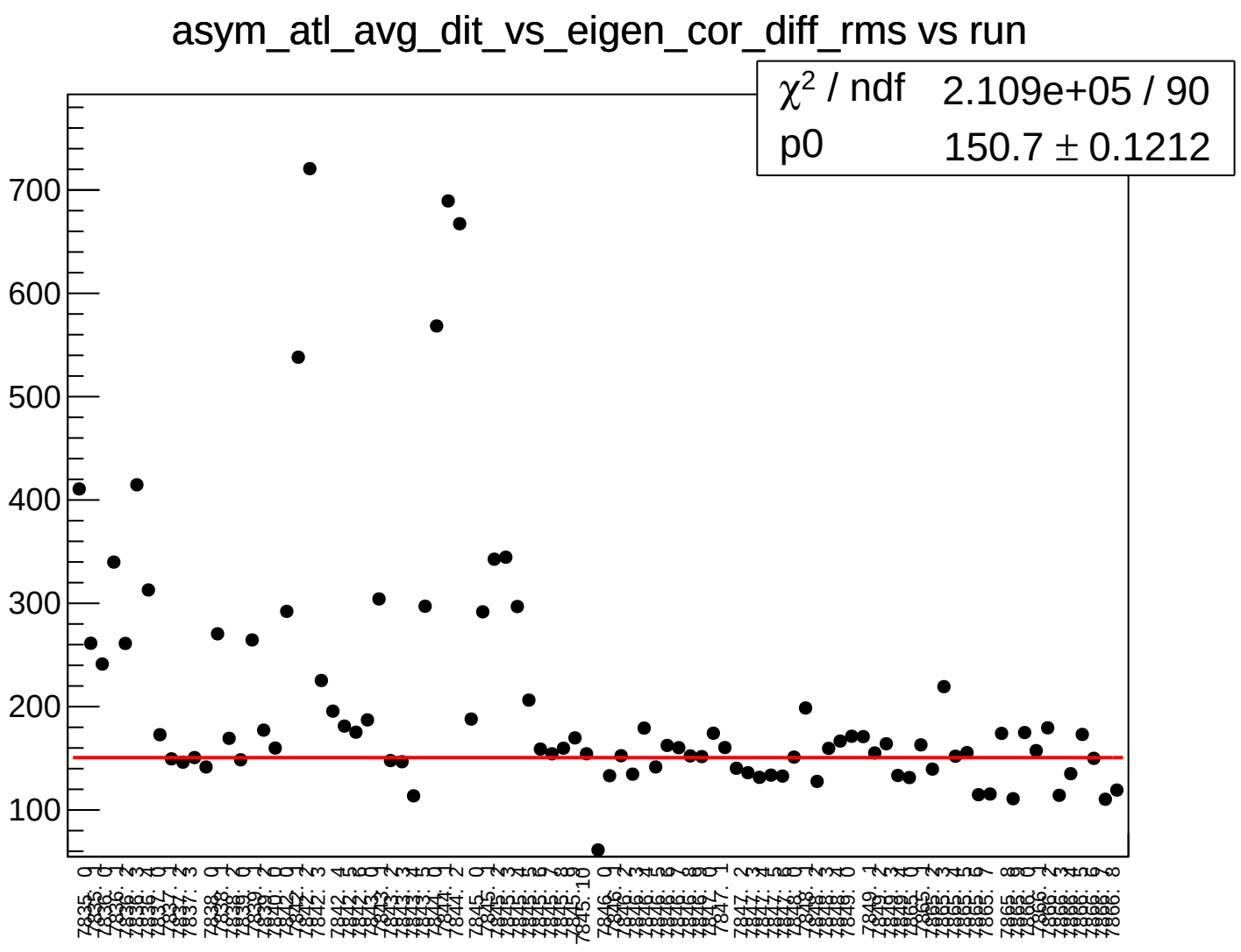

pull1D
Entries 91
Mean 0.1467
Std Dev 1.072

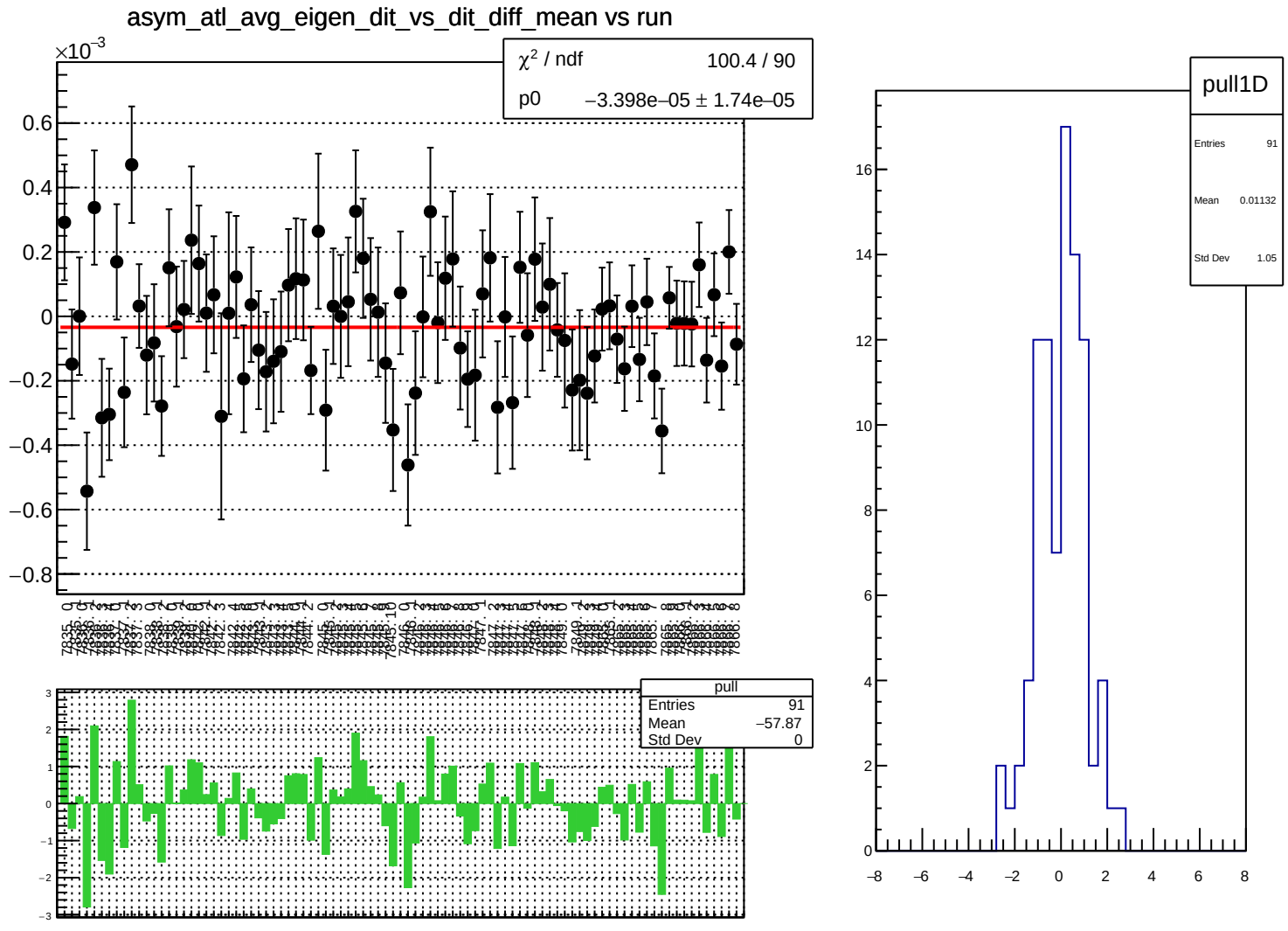

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.148e+06 / 90
p0 5.433e−10 ± 6.976e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

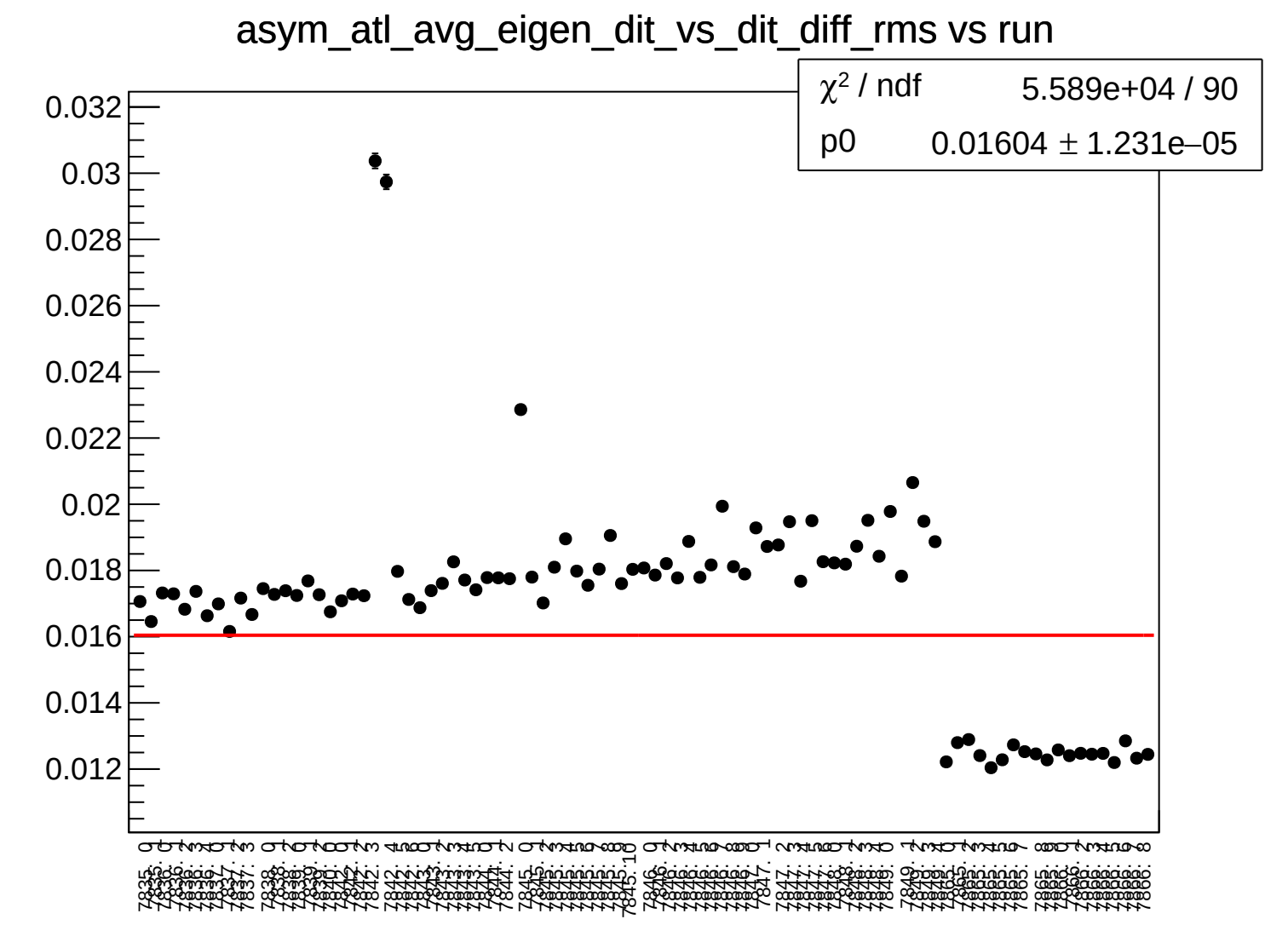

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 90
p0 0.01999 ± 0.1715
pull
Entries 91
Mean −190.7
Std Dev 0
pull1D
Entries 91
Mean 0.00362
Std Dev 0.9672

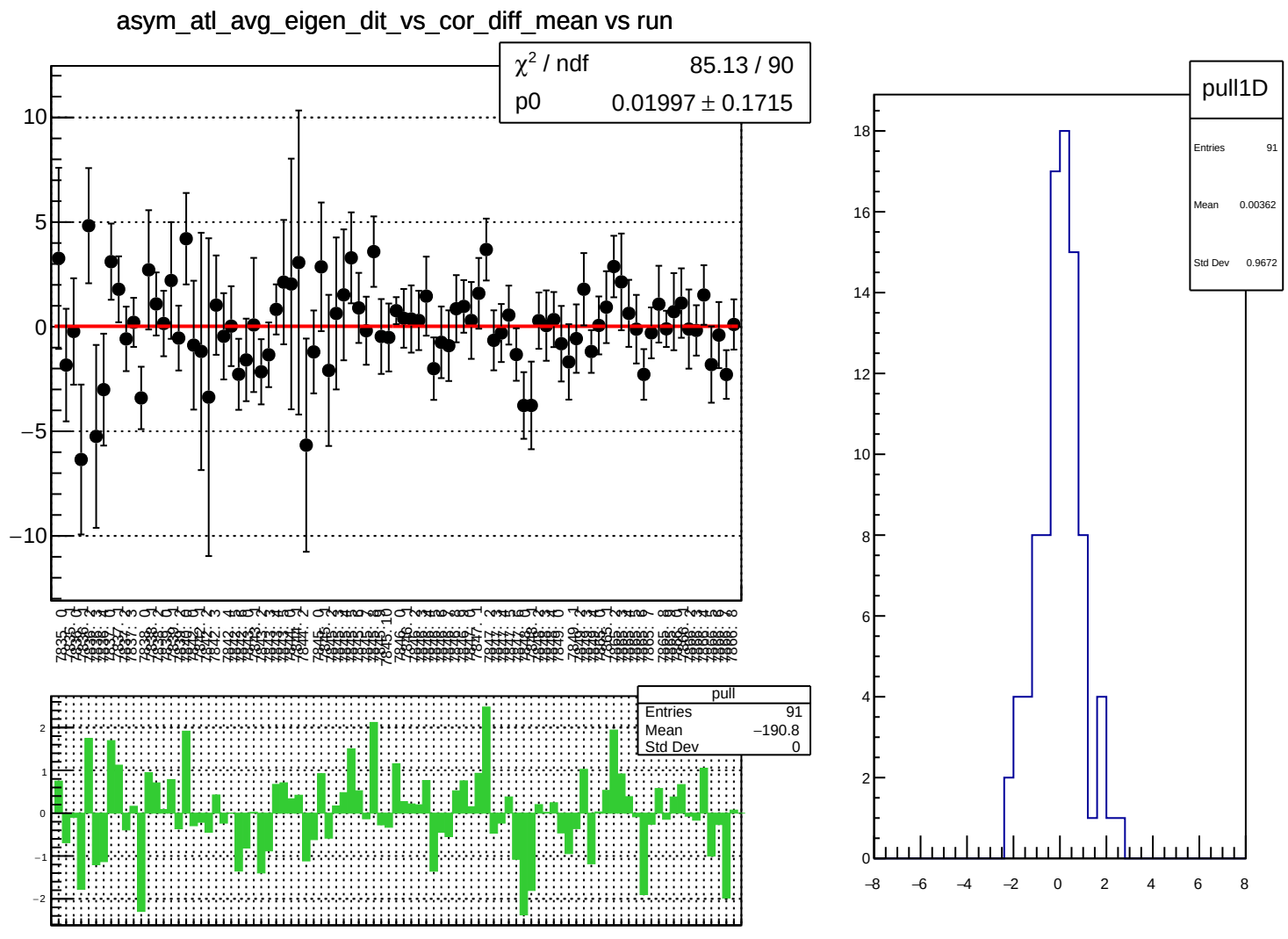

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.109e+05 / 90
p0 150.7 ± 0.1212
700
600
500
400
300
200
100

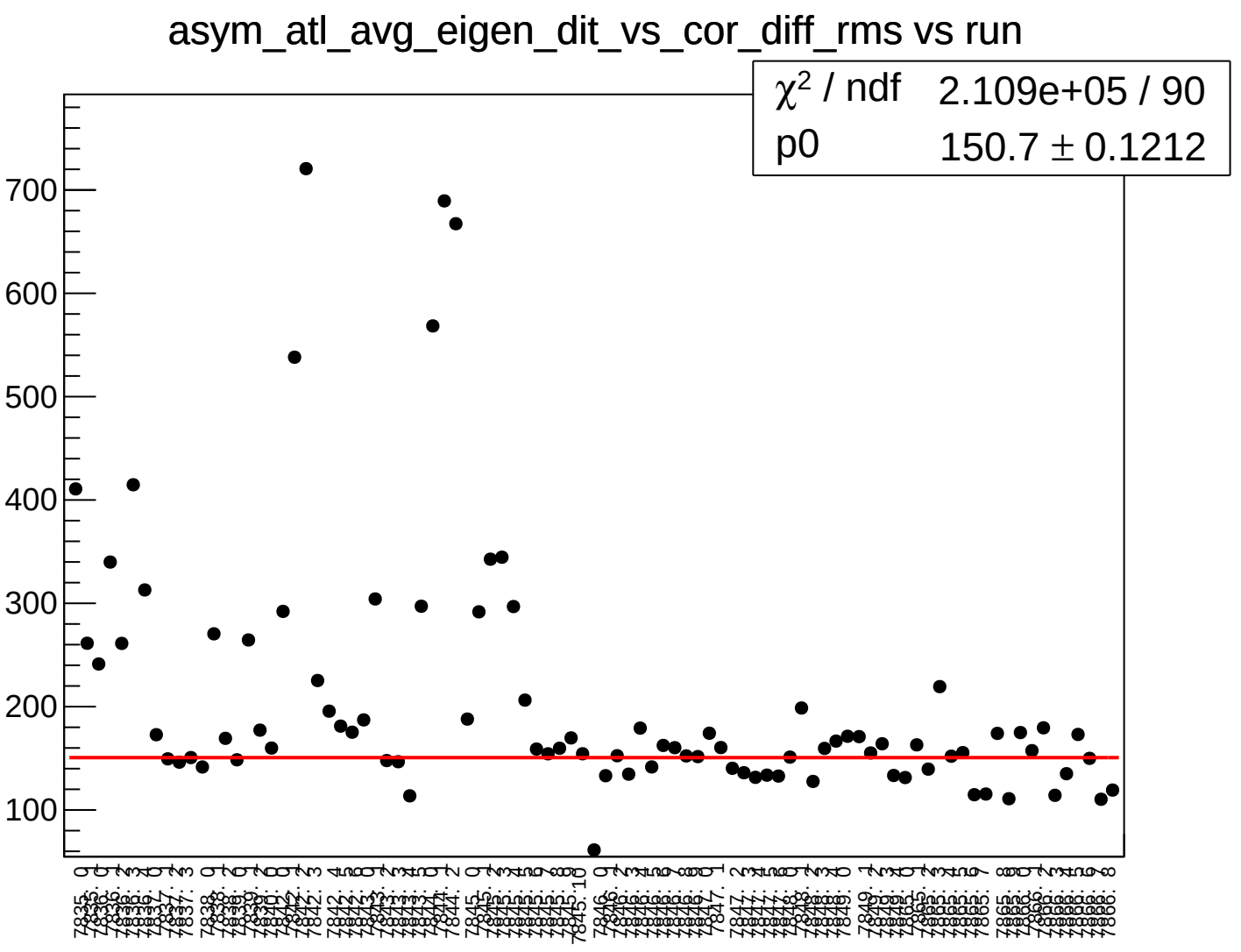

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.13 / 90
p0 0.01999 ± 0.1715
pull
Entries 91
Mean −190.7
Std Dev 0
pull1D
Entries 91
Mean 0.00362
Std Dev 0.9672

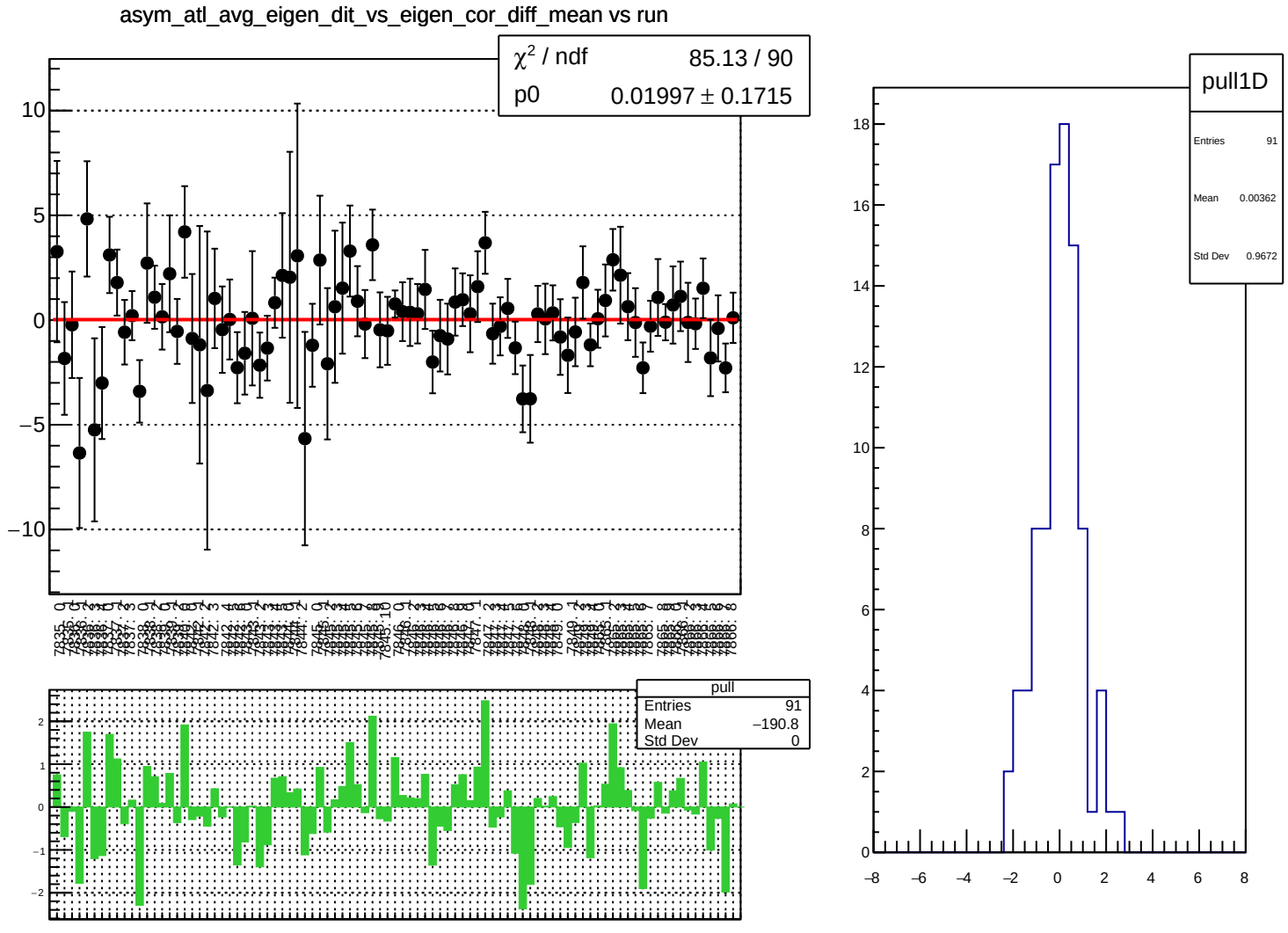

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.109e+05 / 90
p0 150.7 ± 0.1212
700
600
500
400
300
200
100

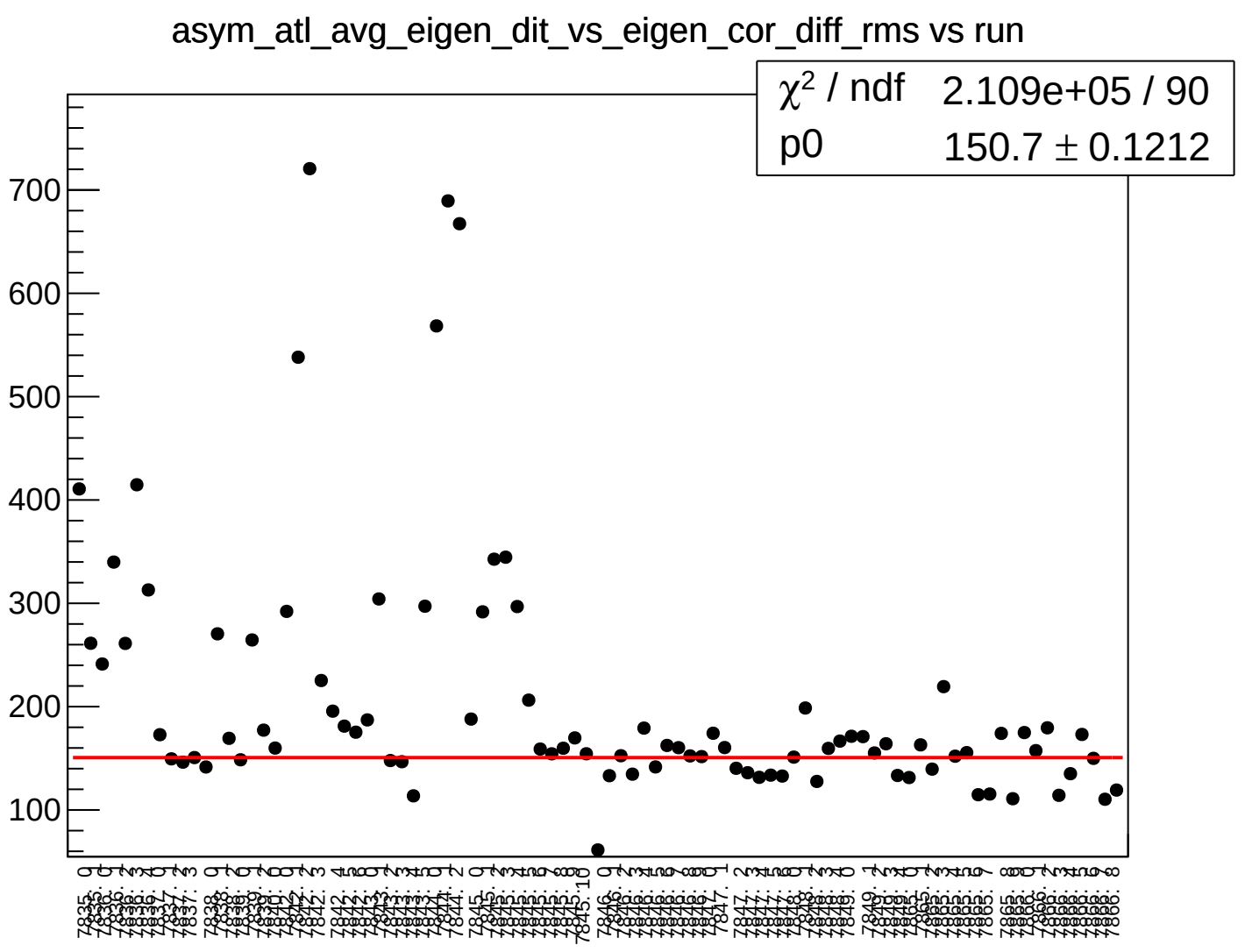

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.4 / 90
p0 −3.398e−05 ± 1.74e−05
pull
Entries 91
Mean −57.87
Std Dev 0
pull1D
Entries 91
Mean 0.01132
Std Dev 1.05

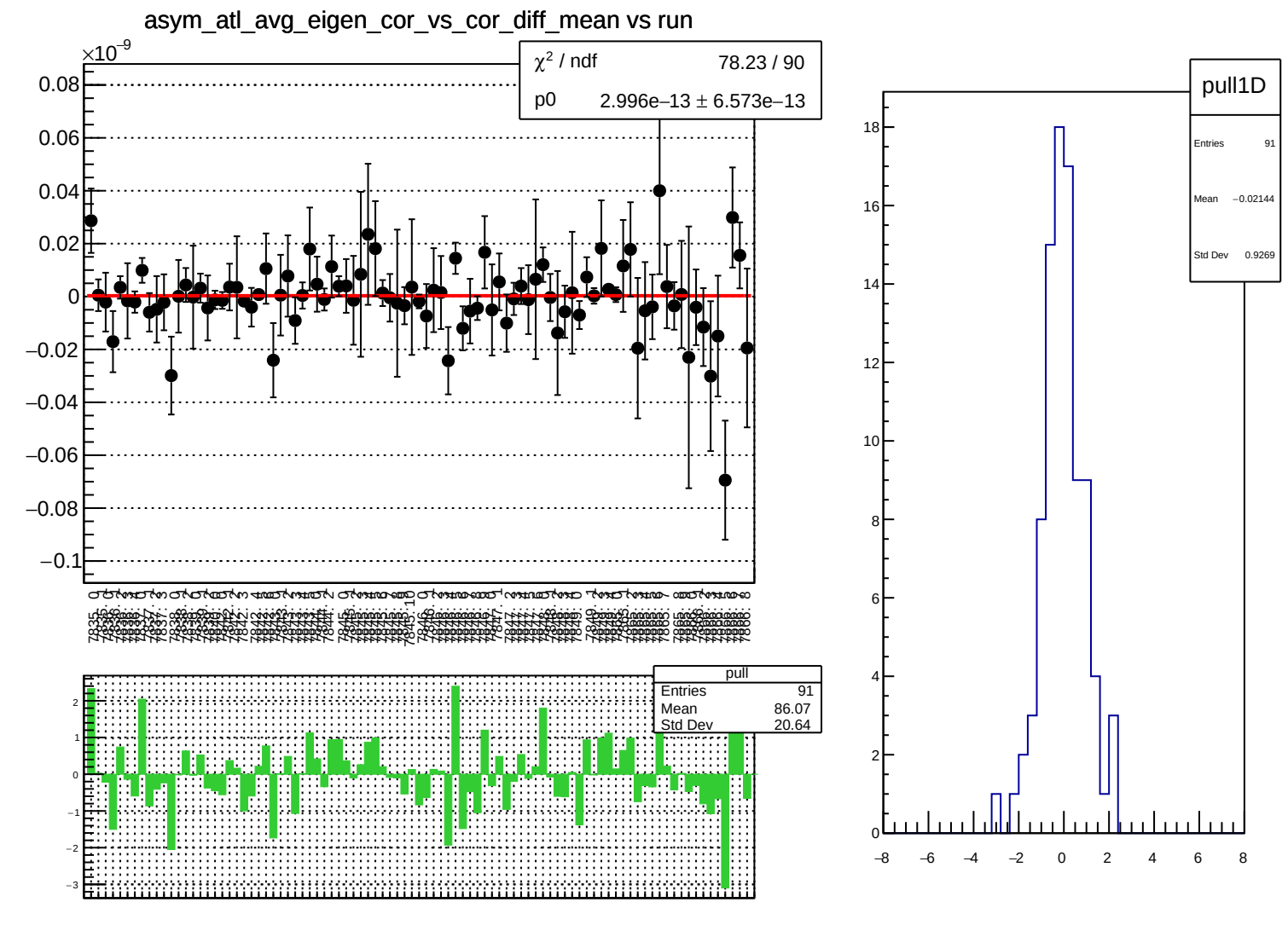

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.589e+04 / 90
p0 0.01604 ± 1.231e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

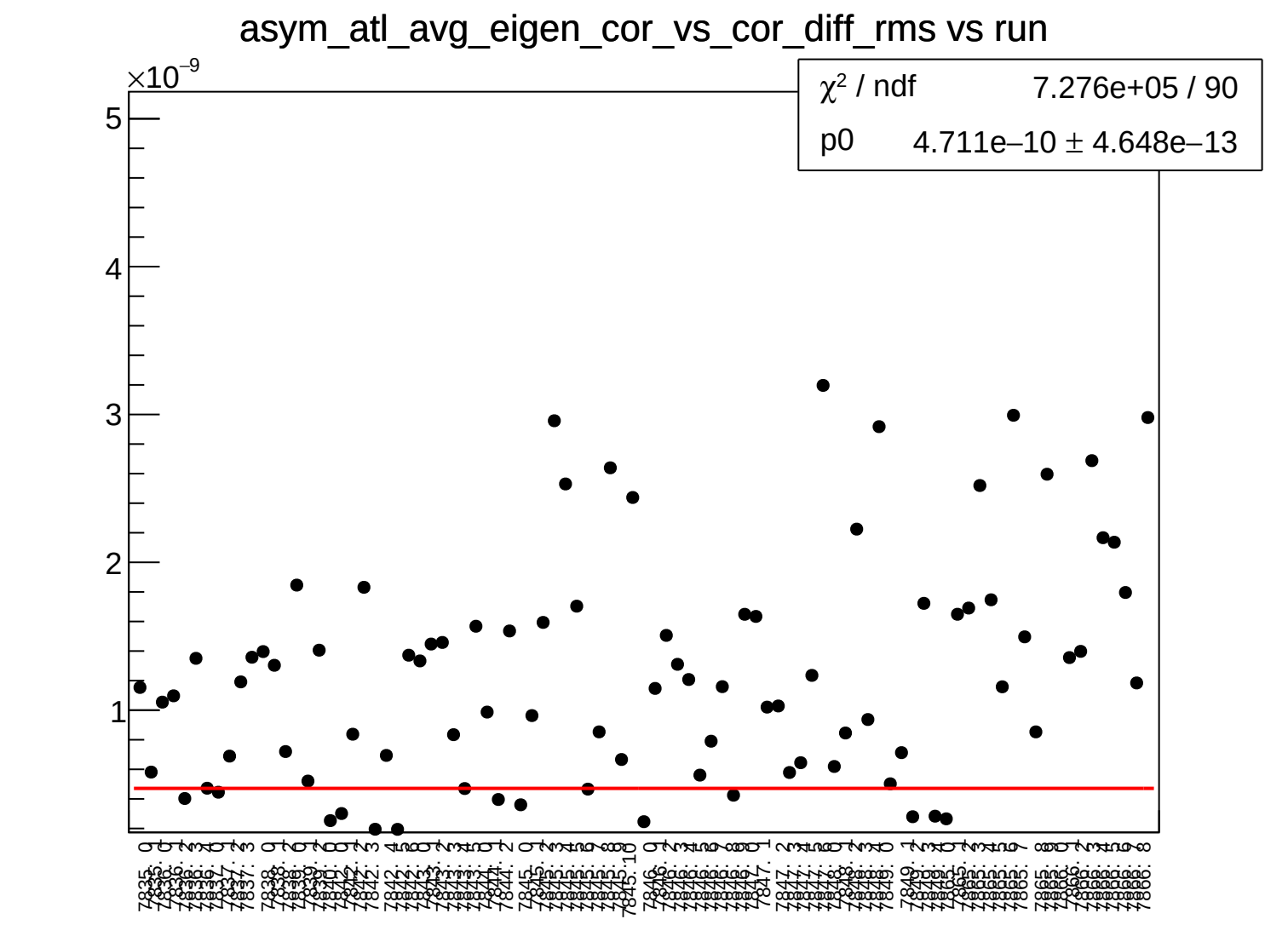

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 90
p0 0.01997 ± 0.1715
pull
Entries 91
Mean −190.8
Std Dev 0
pull1D
Entries 91
Mean 0.00362
Std Dev 0.9672

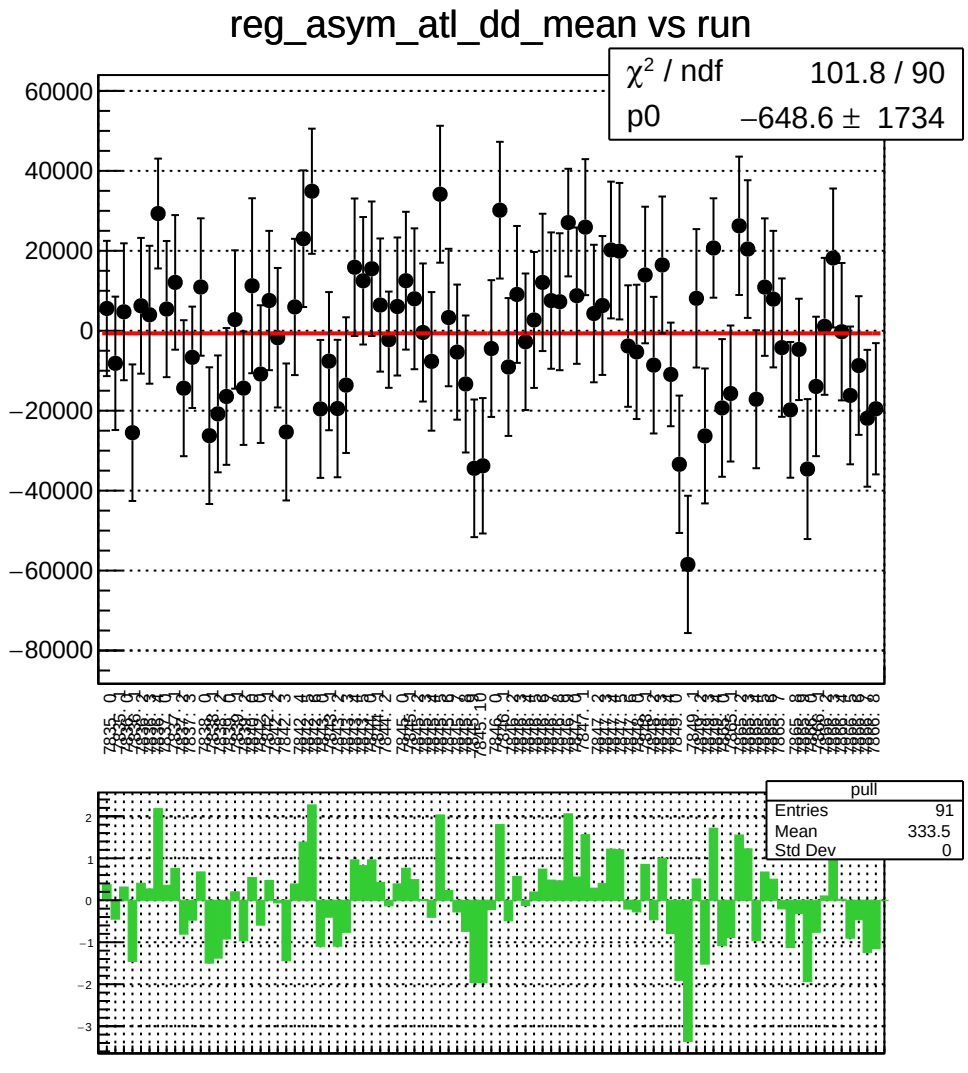

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.109e+05 / 90
p0 150.7 ± 0.1212
700
600
500
400
300
200
100

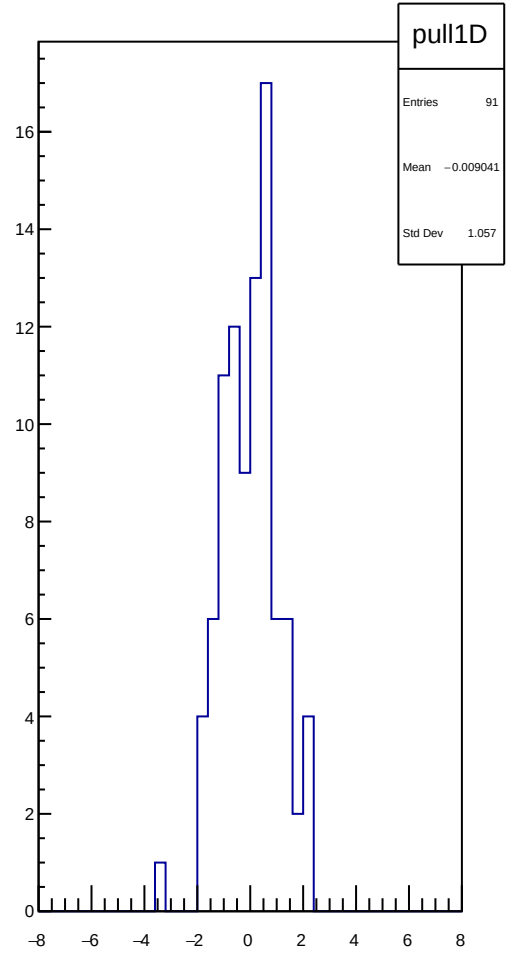

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.13 / 90
p0 0.01997 ± 0.1715
pull
Entries 91
Mean −190.8
Std Dev 0
pull1D
Entries 91
Mean 0.00362
Std Dev 0.9672

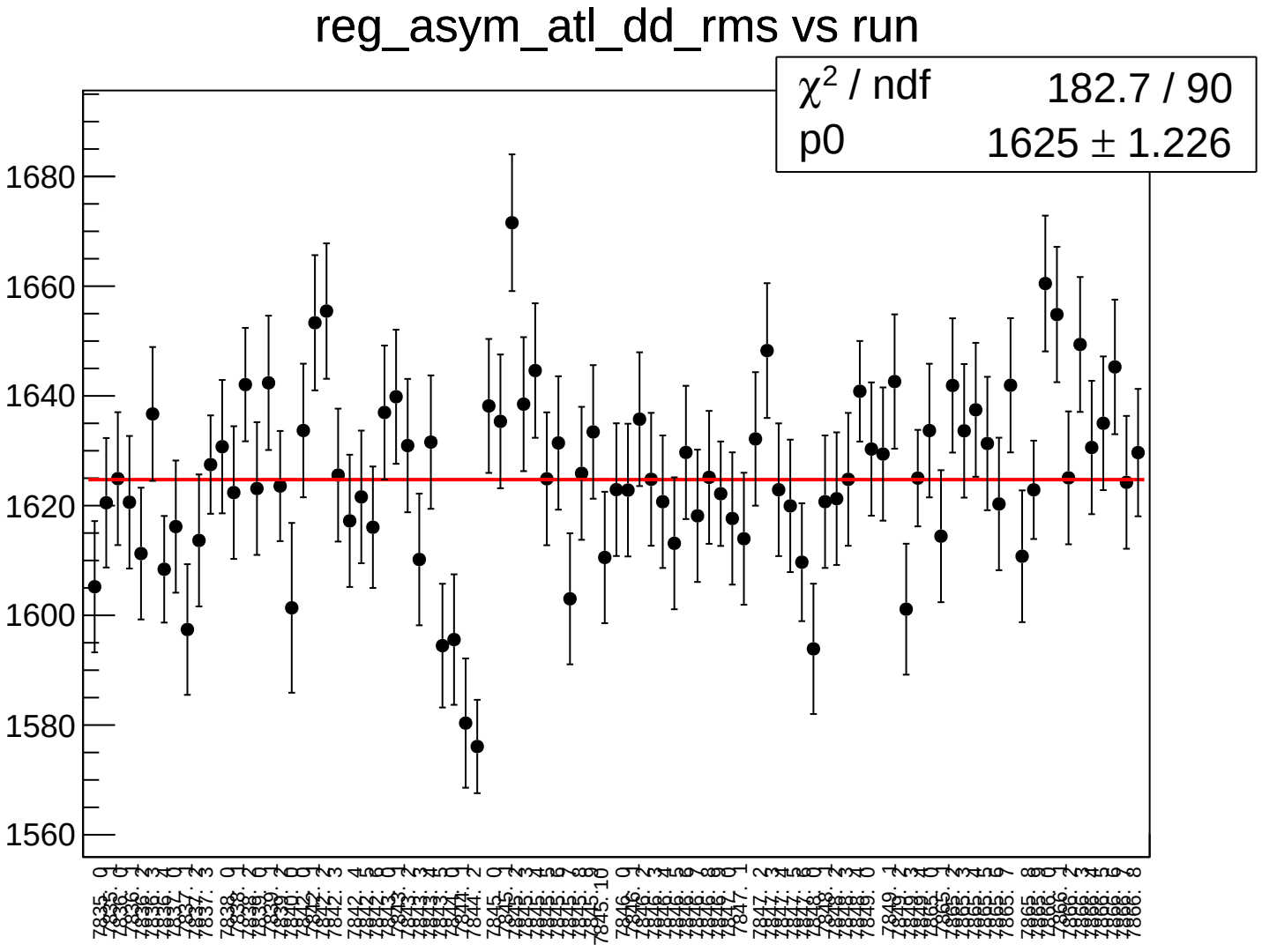

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.109e+05 / 90
p0 150.7 ± 0.1212
700
600
500
400
300
200
100

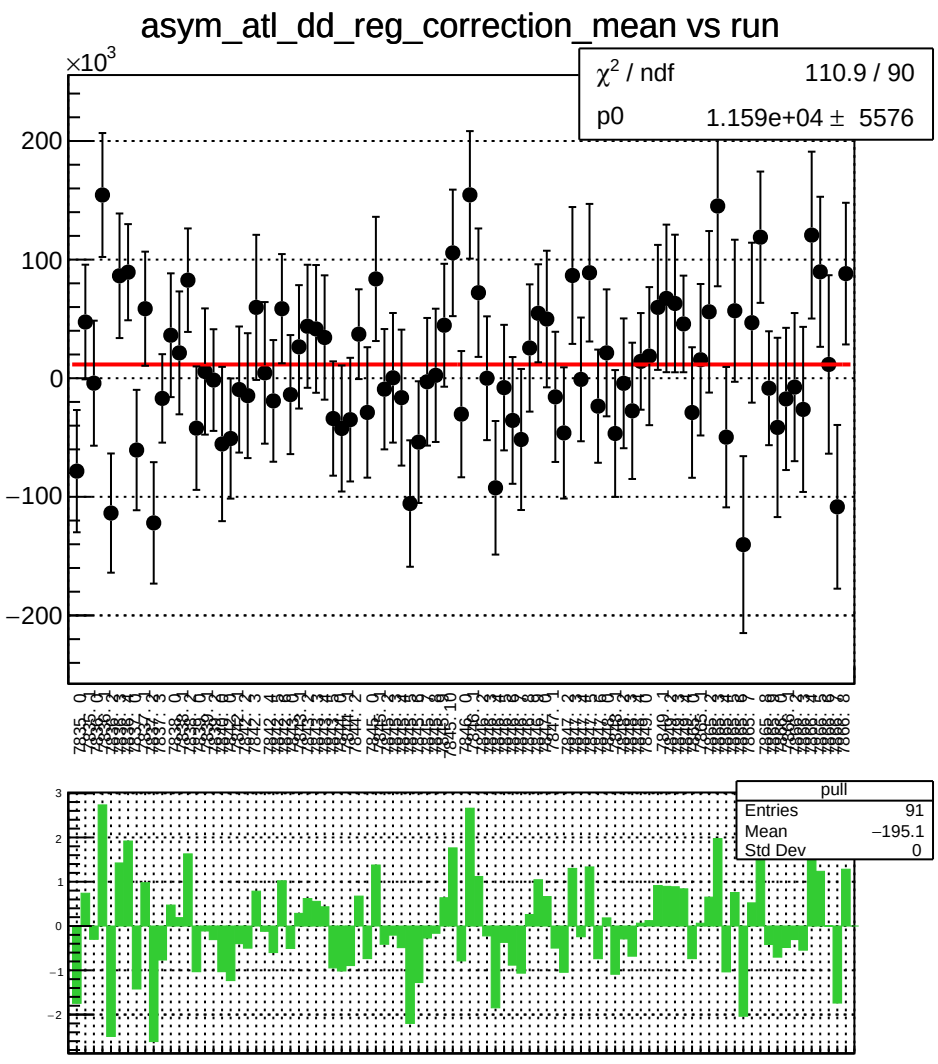

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 78.23 / 90
p0 2.996e−13 ± 6.573e−13
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 91
Mean 86.07
Std Dev 20.64
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.02144
Std Dev 0.9269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

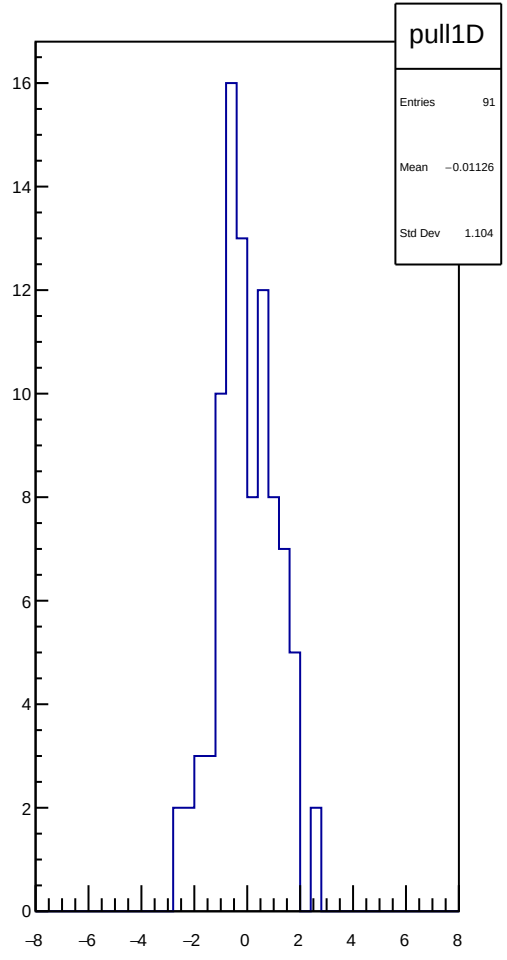

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.276e+05 / 90
p0 4.711e−10 ± 4.648e−13
5
4
3
2
1

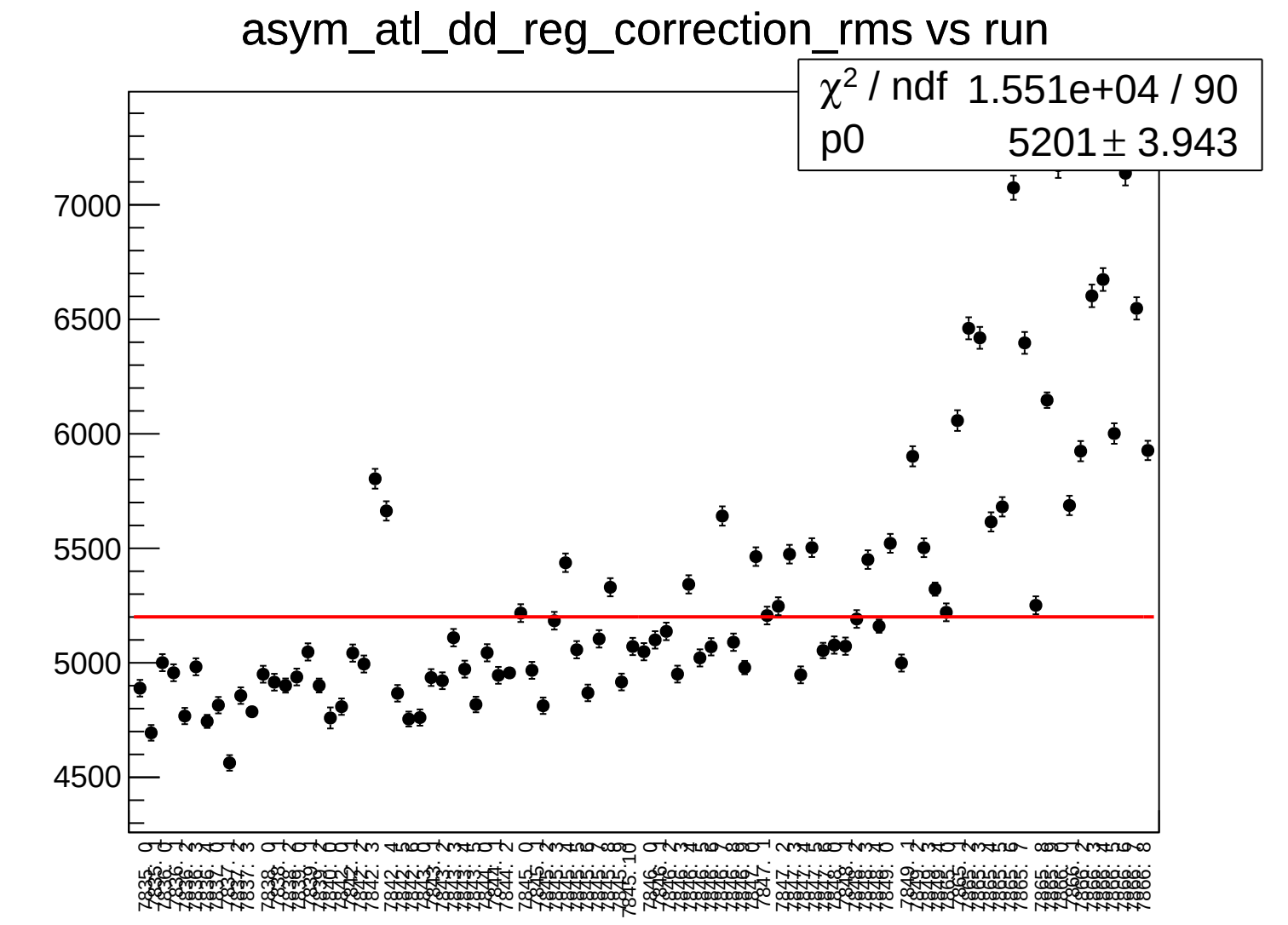

reg_asym_atl_dd_mean vs run
χ² / ndf 101.8 / 90
p0 −648.6 ± 1734
pull
Entries 91
Mean 333.5
Std Dev 0

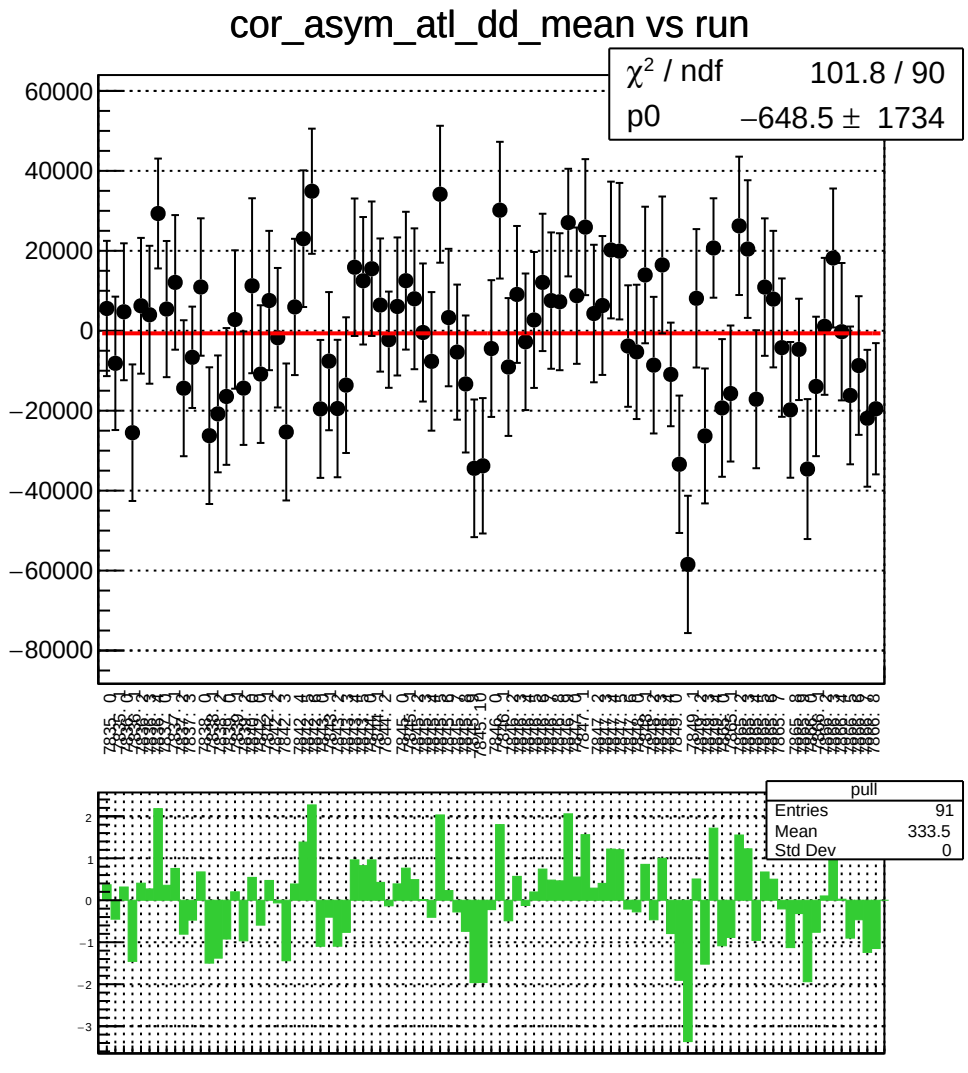

pull1D
Entries 91
Mean −0.009041
Std Dev 1.057

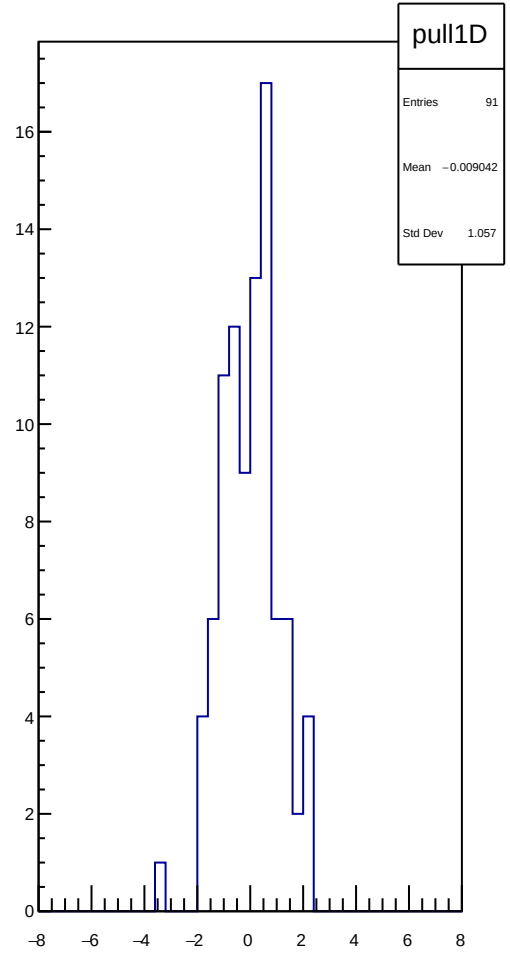

reg_asym_atl_dd_rms vs run
χ^2 / ndf 182.7 / 90
p0 1625 ± 1.226
1680
1660
1640
1620
1600
1580
1560

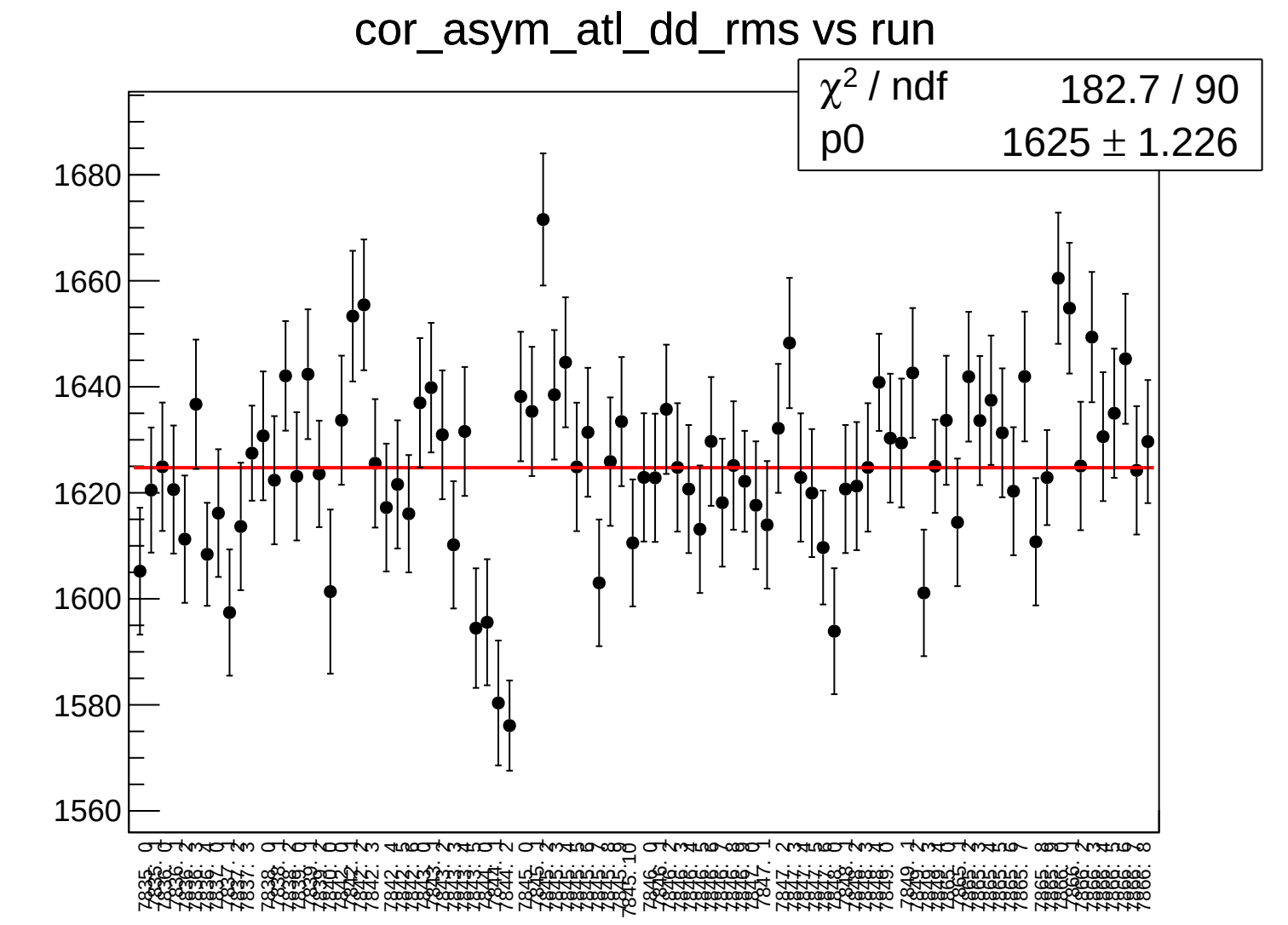

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 110.9 / 90
p0 1.159e+04 ± 5576
200
100
0
−100
−200
pull
Entries 91
Mean −195.1
Std Dev 0
3
2
1
0
−1
−2

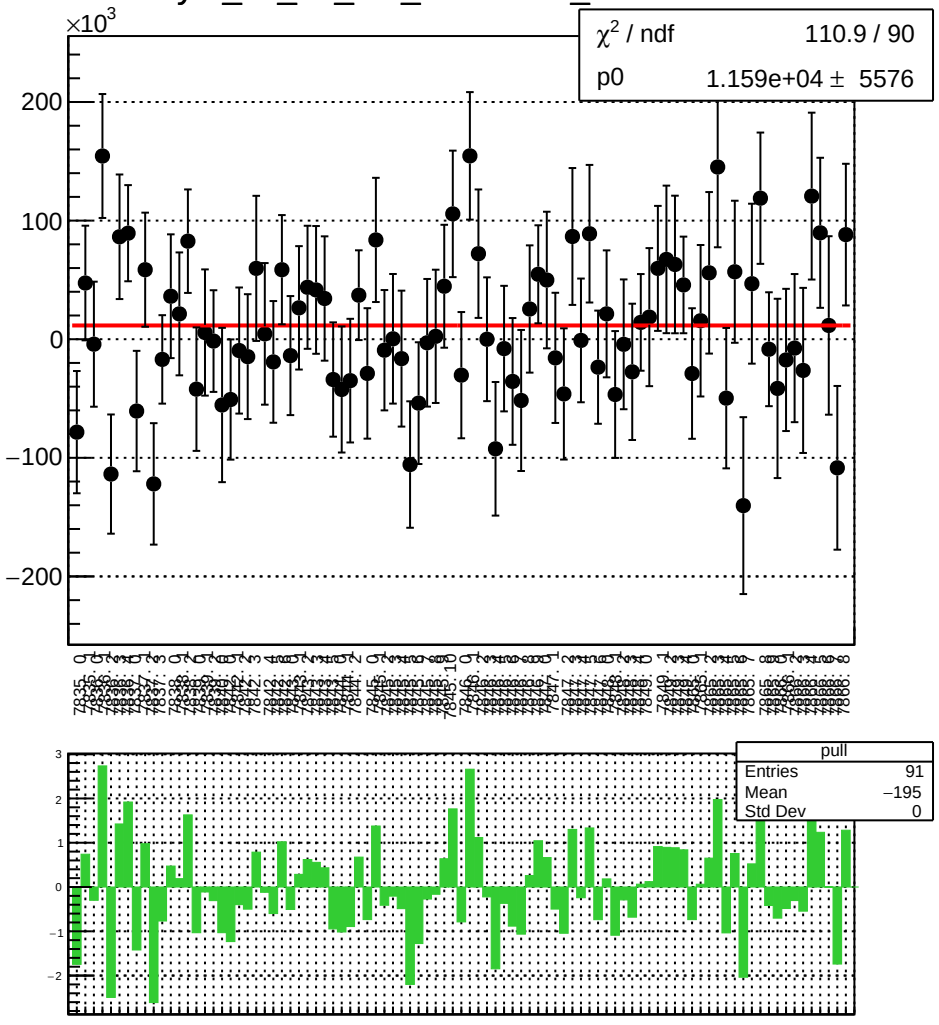

pull1D
Entries 91
Mean −0.01126
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

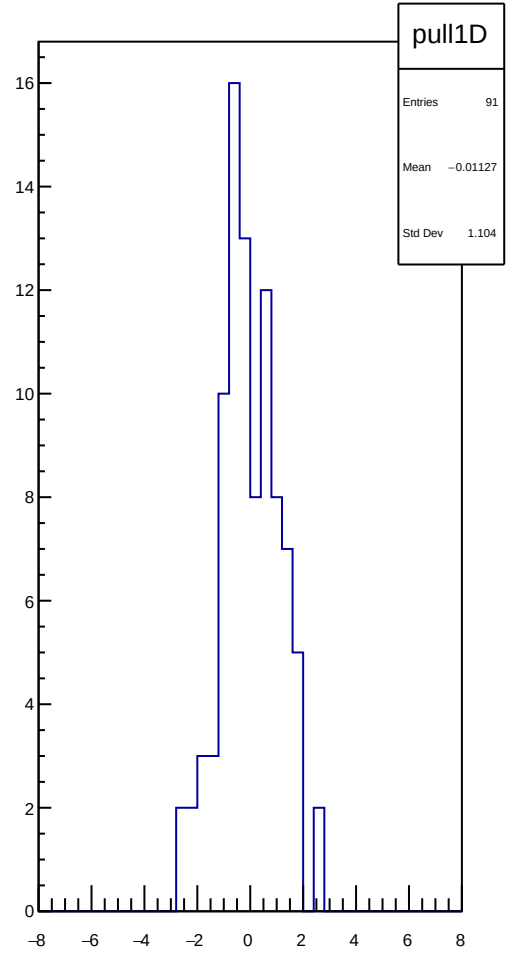

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.551e+04 / 90
p0 5201 ± 3.943
7000
6500
6000
5500
5000
4500

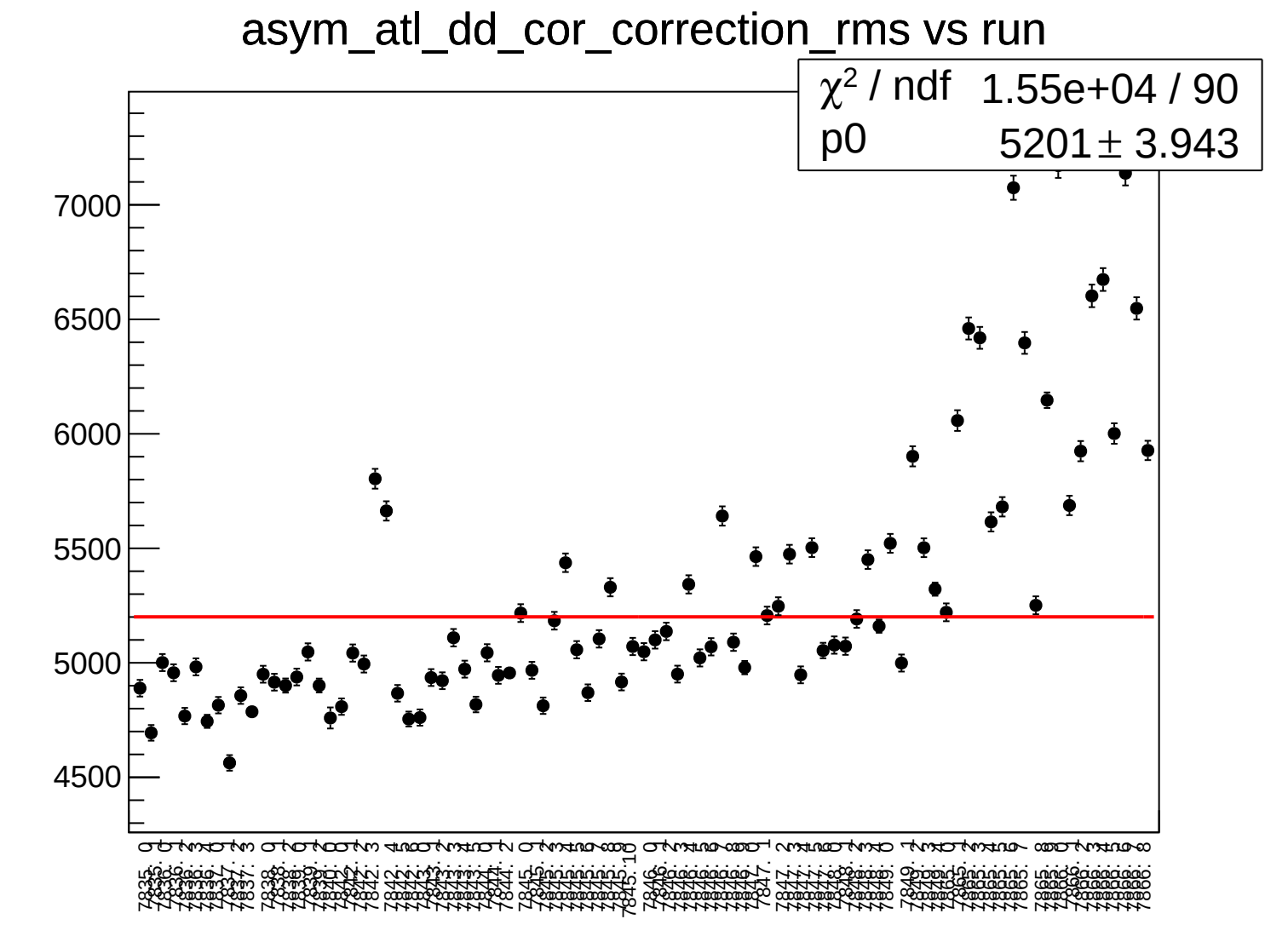

cor_asym_atl_dd_mean vs run
χ² / ndf 101.8 / 90
p0 −648.5 ± 1734
pull
Entries 91
Mean 333.5
Std Dev 0

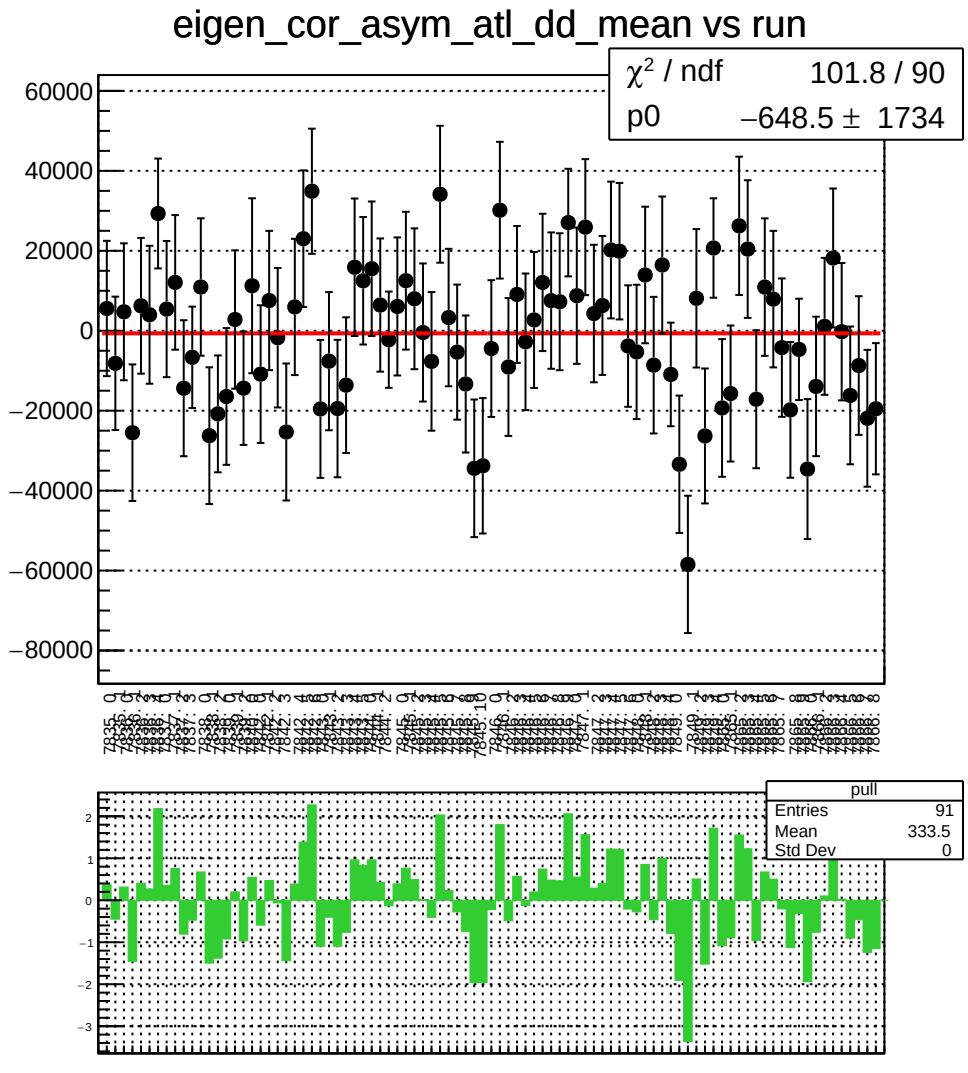

pull1D
Entries 91
Mean −0.009042
Std Dev 1.057

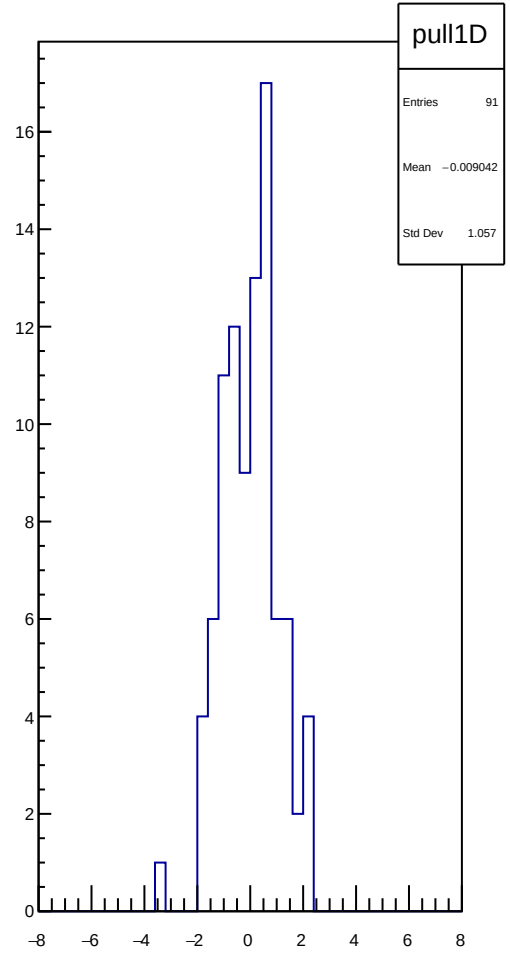

cor_asym_atl_dd_rms vs run
χ^2 / ndf 182.7 / 90
p0 1625 ± 1.226
1680
1660
1640
1620
1600
1580
1560

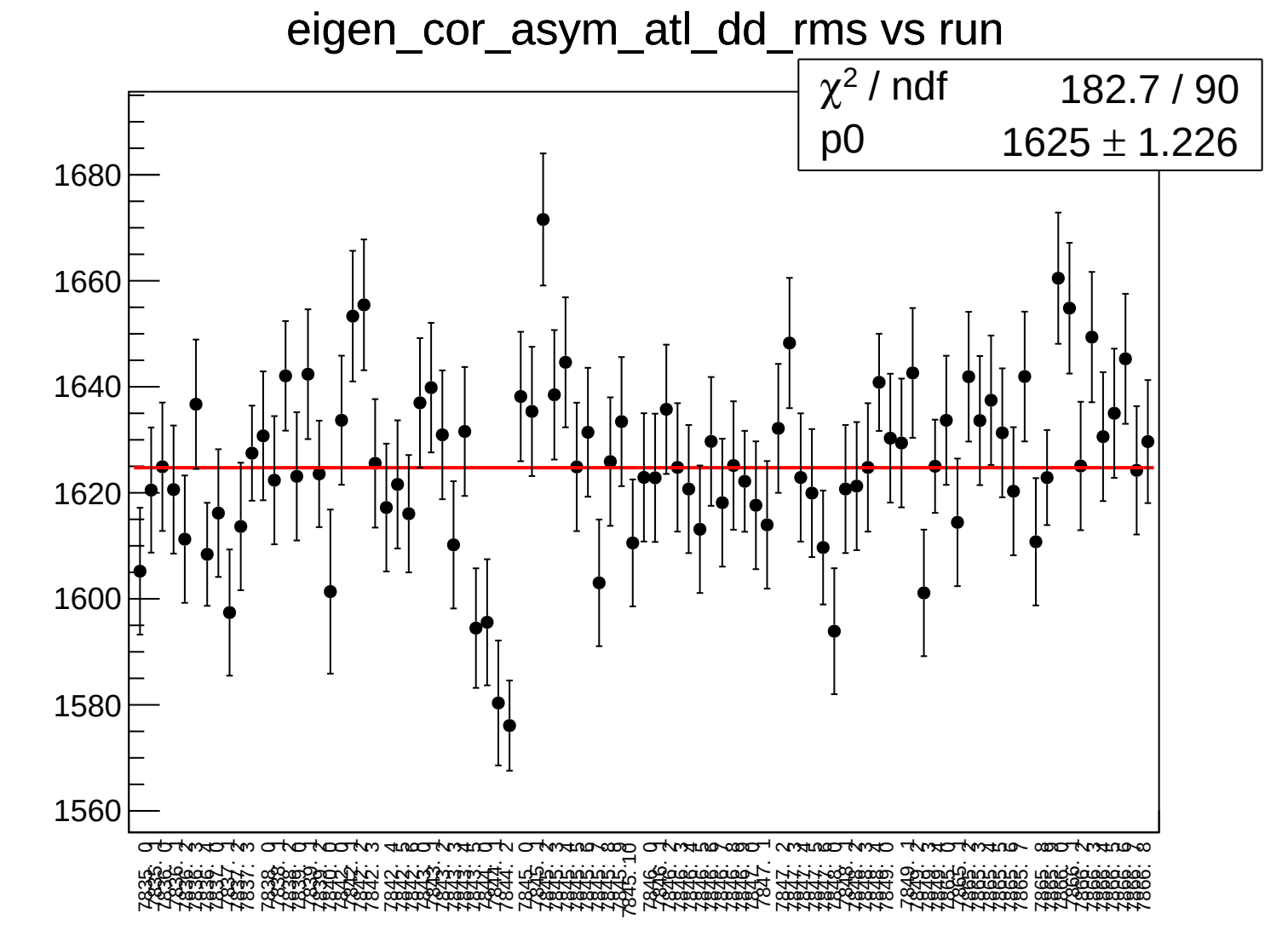

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 110.9 / 90
p0 1.159e+04 ± 5576
200
100
0
−100
−200
pull
Entries 91
Mean −195
Std Dev 0
3
2
1
0
−1
−2

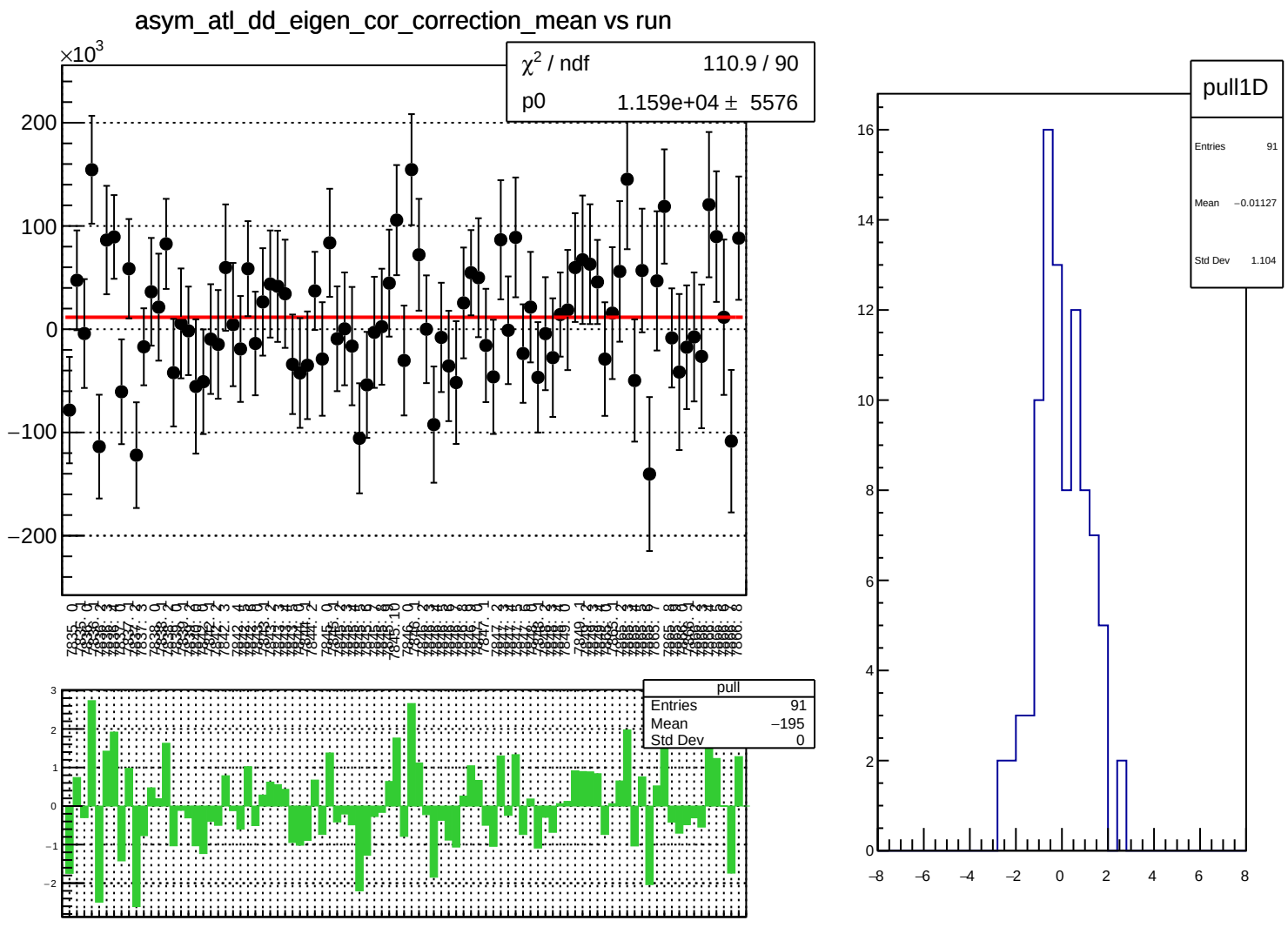

pull1D
Entries 91
Mean −0.01127
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

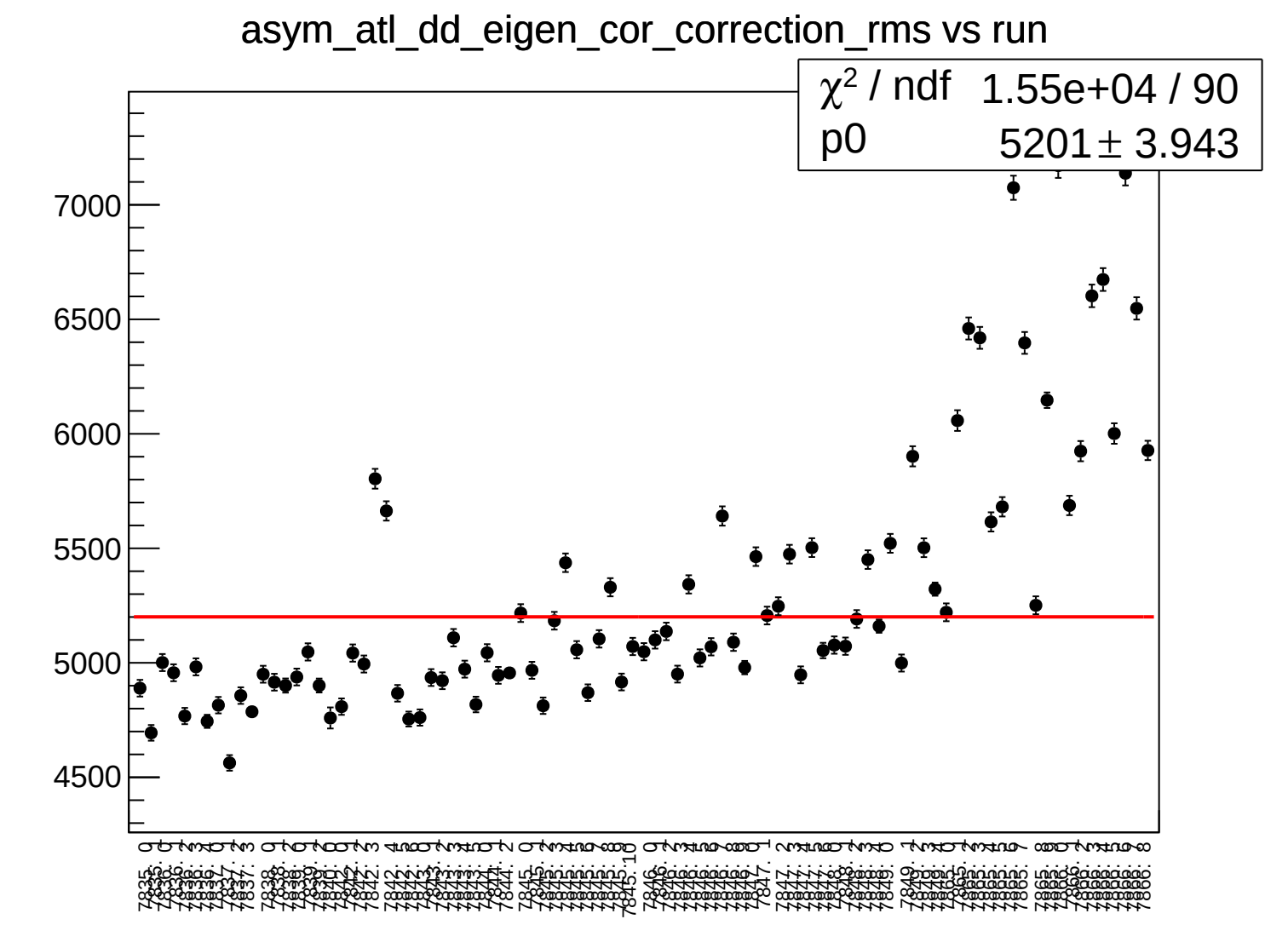

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.55e+04 / 90
p0 5201 ± 3.943
7000
6500
6000
5500
5000
4500

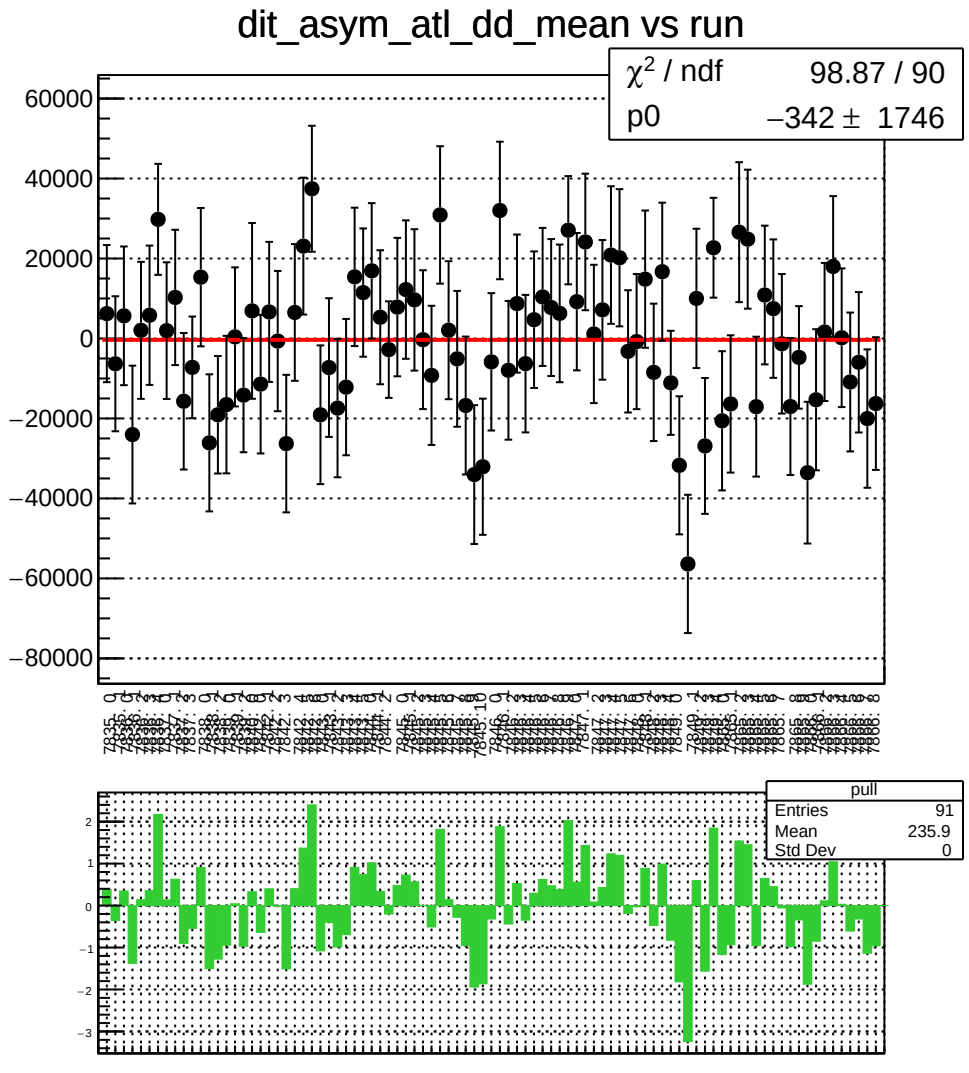

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 101.8 / 90
p0 −648.5 ± 1734
pull
Entries 91
Mean 333.5
Std Dev 0

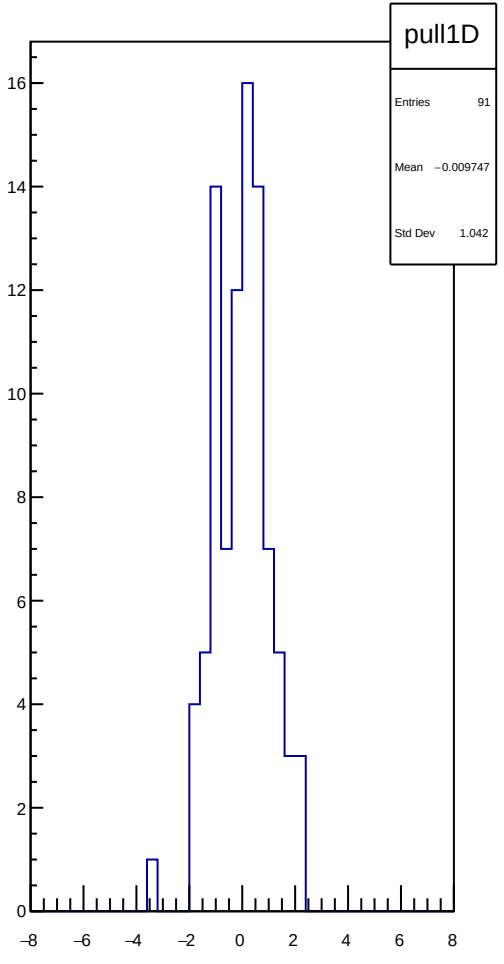

pull1D
Entries 91
Mean −0.009042
Std Dev 1.057

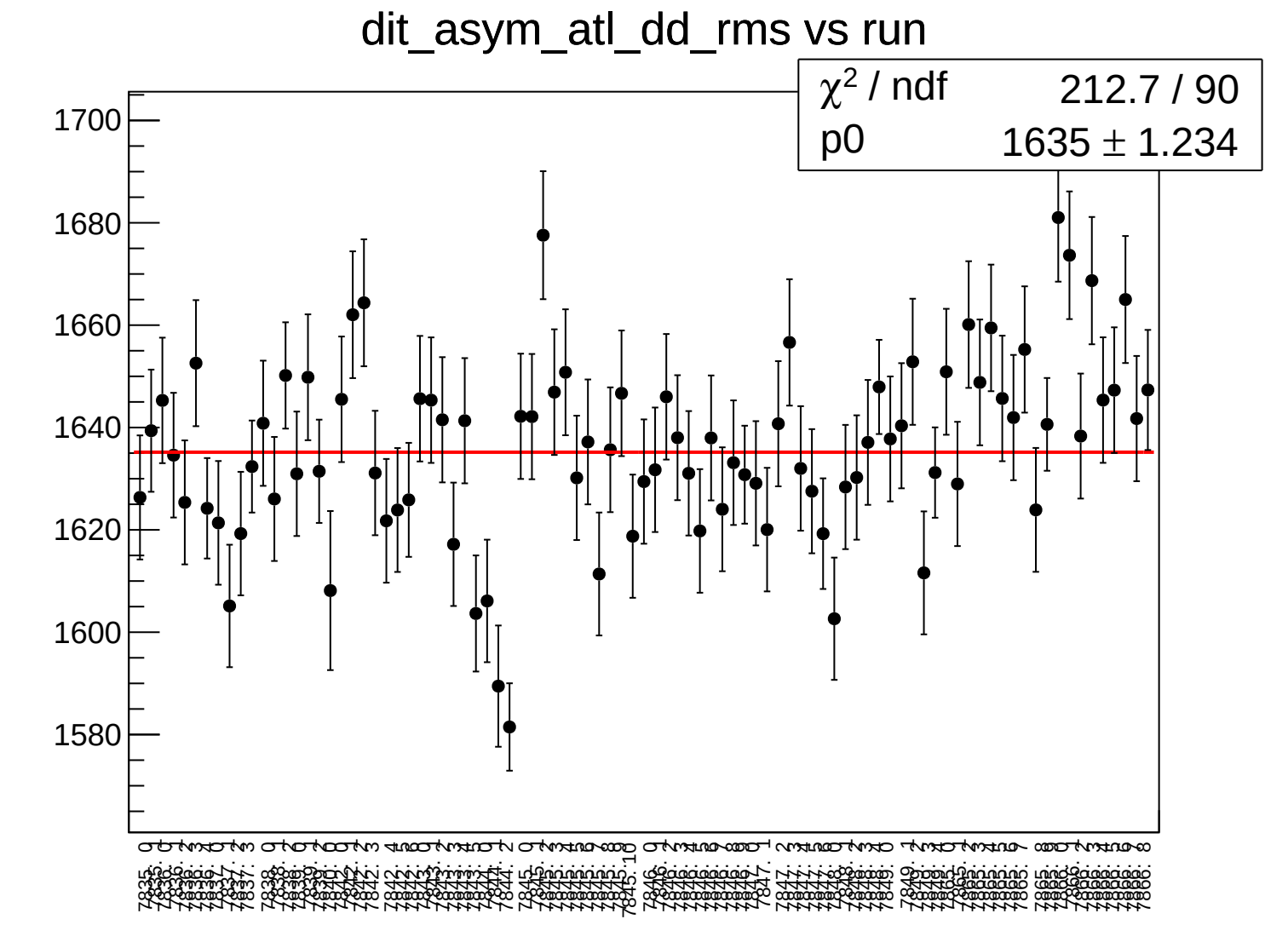

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 182.7 / 90
p0 1625 ± 1.226
1680
1660
1640
1620
1600
1580
1560

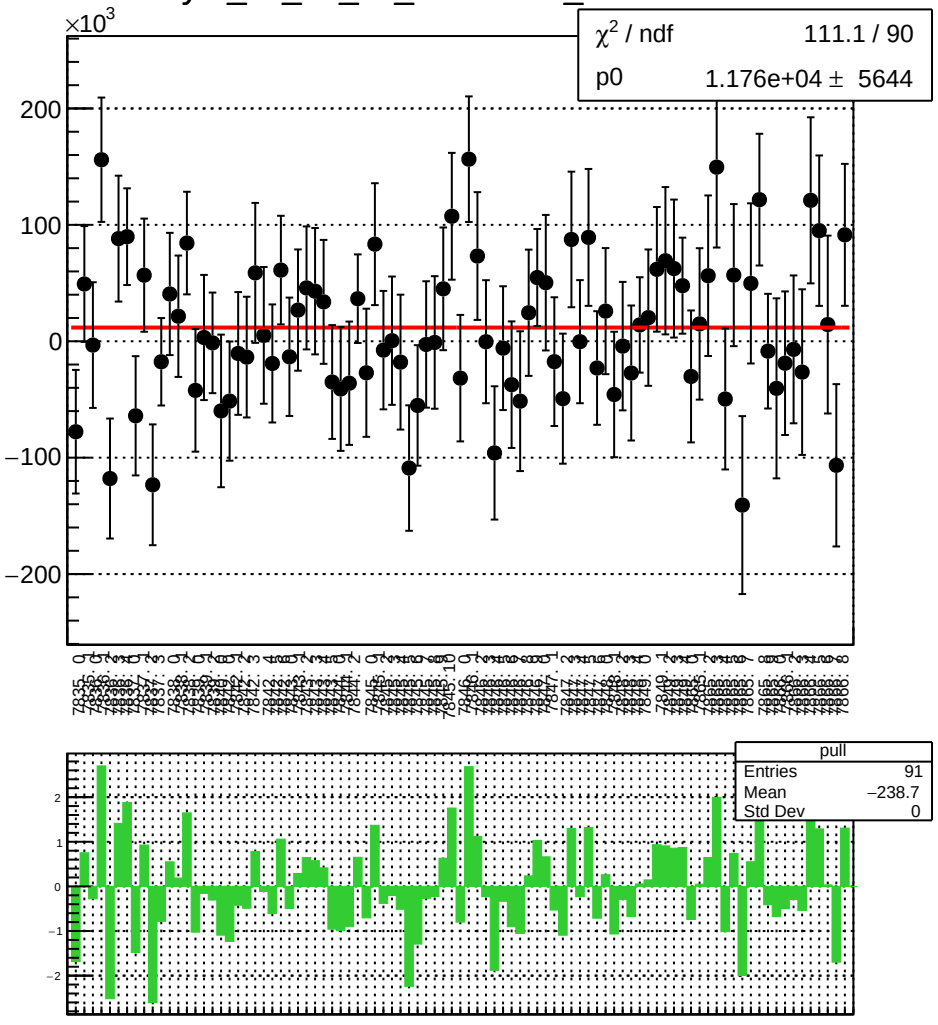

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.9 / 90
p0 1.159e+04 ± 5576
200
100
0
−100
−200
pull
Entries 91
Mean −195
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01127
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

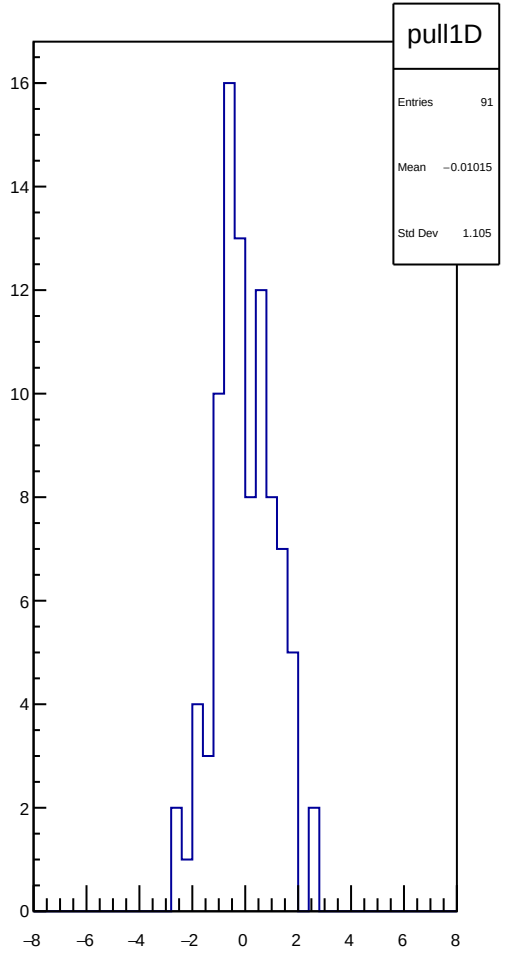

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.55e+04 / 90
p0 5201 ± 3.943
7000
6500
6000
5500
5000
4500

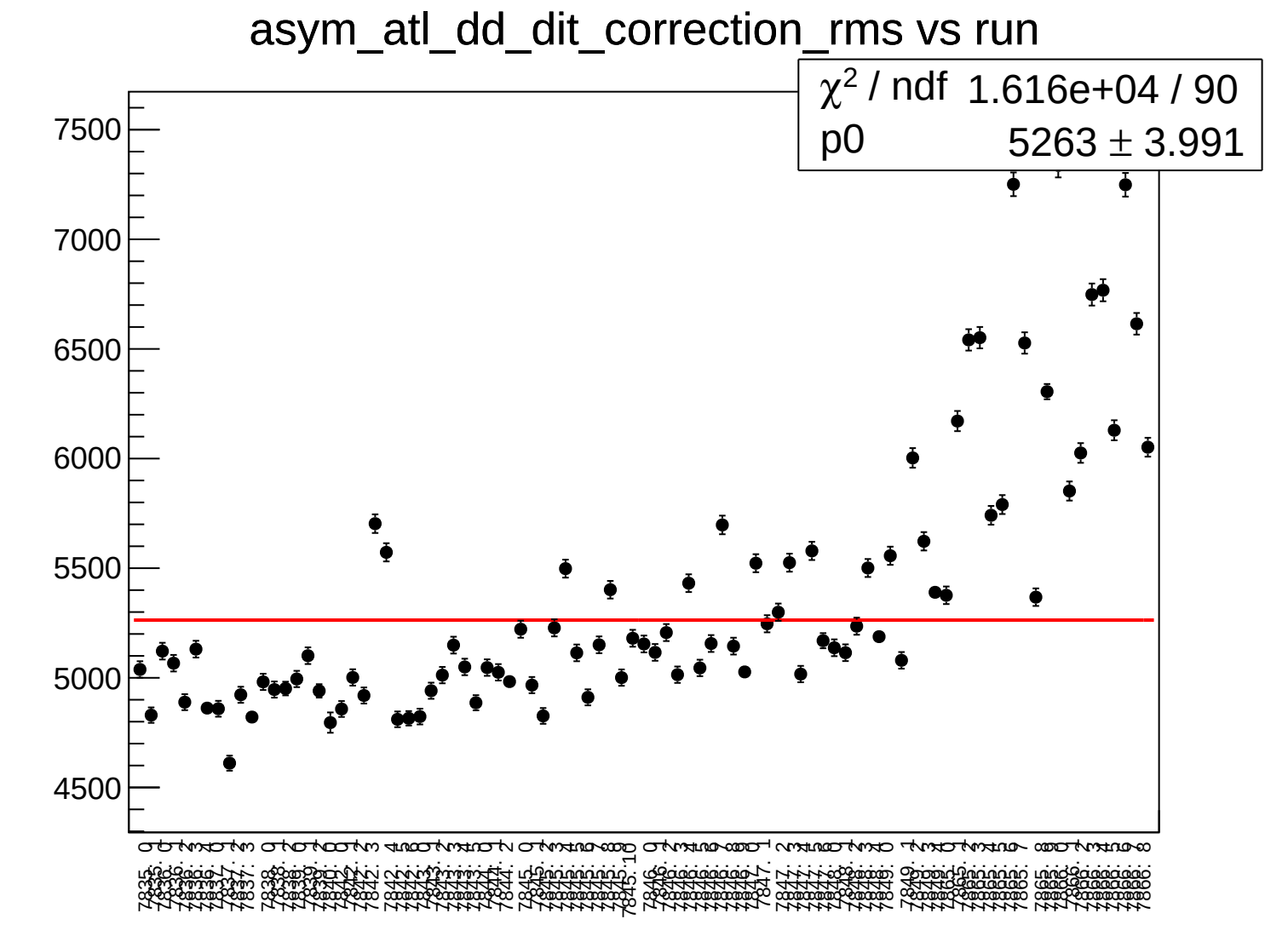

dit_asym_atl_dd_mean vs run
χ² / ndf 98.87 / 90
p0 −342 ± 1746
pull
Entries 91
Mean 235.9
Std Dev 0

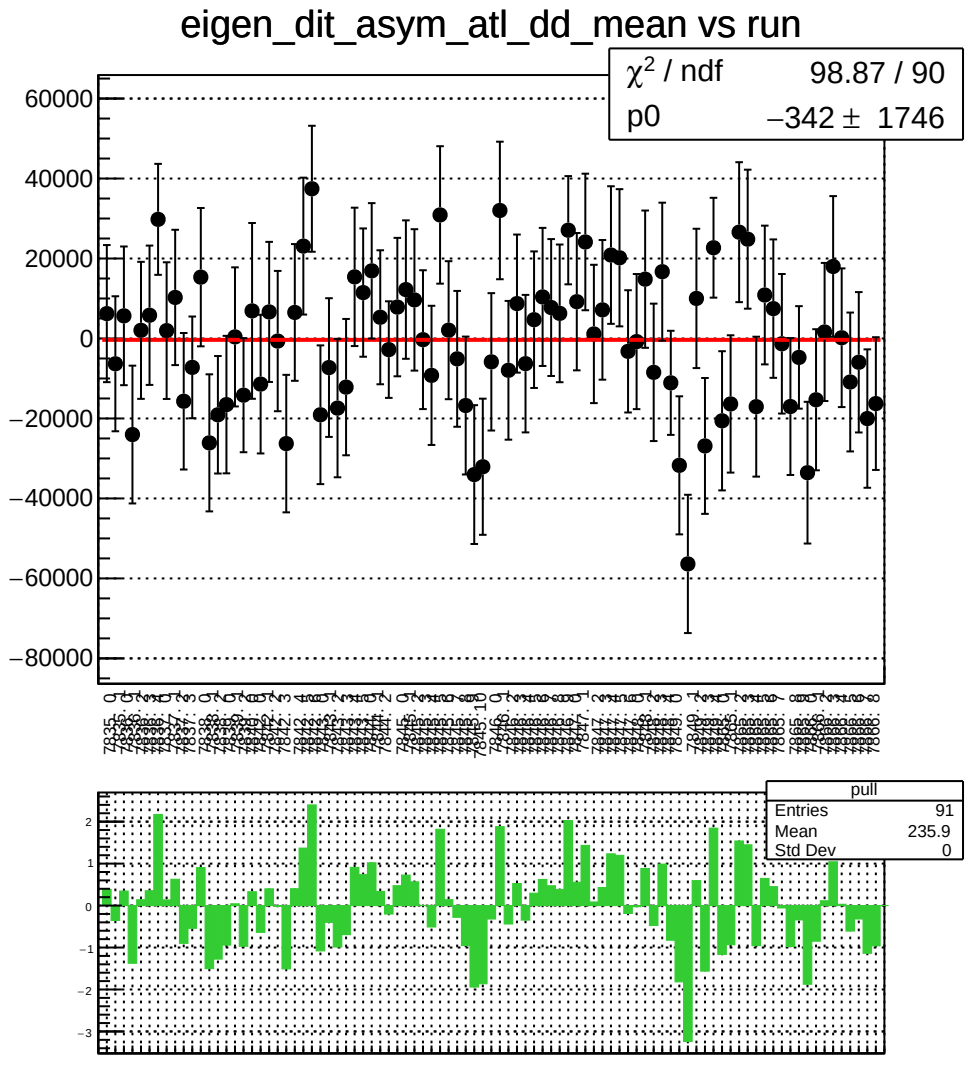

pull1D
Entries 91
Mean −0.009747
Std Dev 1.042

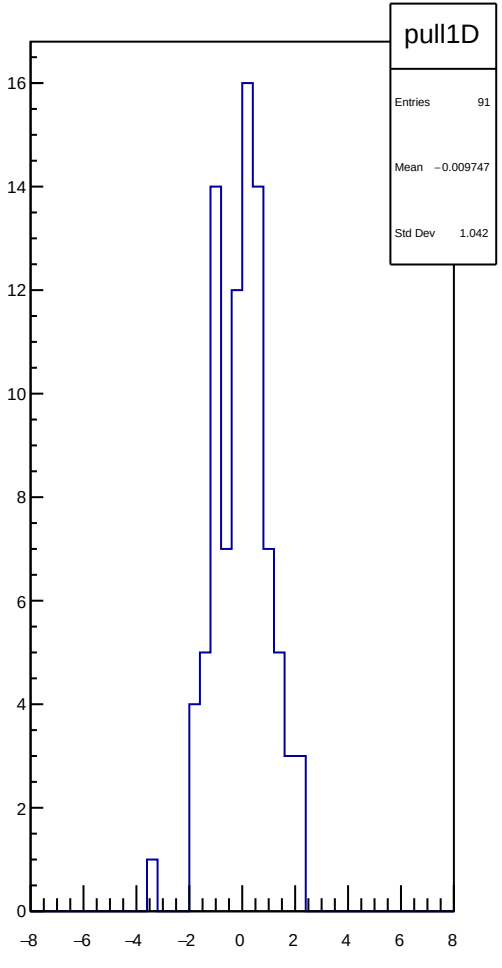

dit_asym_atl_dd_rms vs run
χ² / ndf 212.7 / 90
p0 1635 ± 1.234
1700
1680
1660
1640
1620
1600
1580

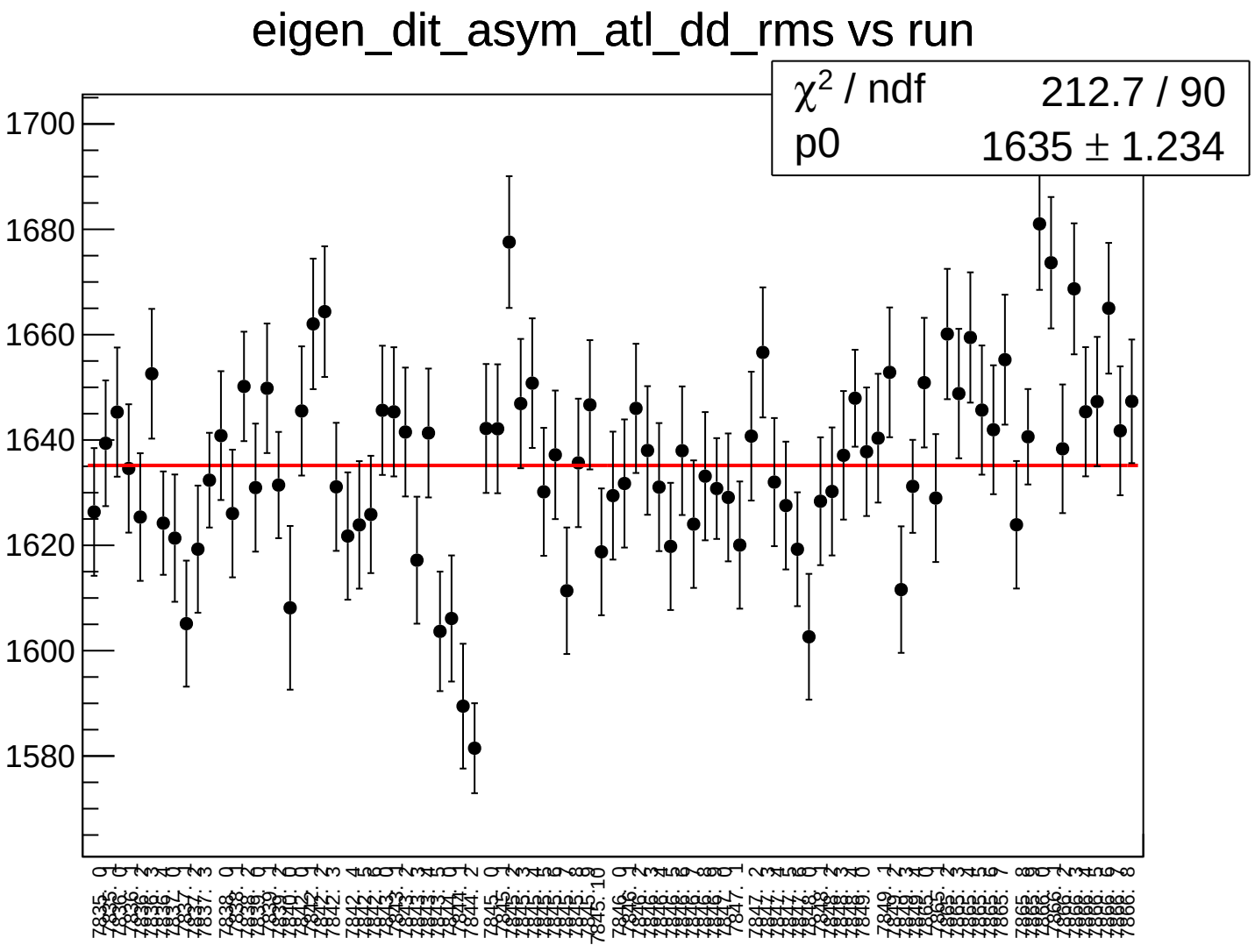

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 111.1 / 90
p0 1.176e+04 ± 5644
×10³
200
100
0
−100
−200
pull
Entries 91
Mean −238.7
Std Dev 0
2
1
0
−1
−2

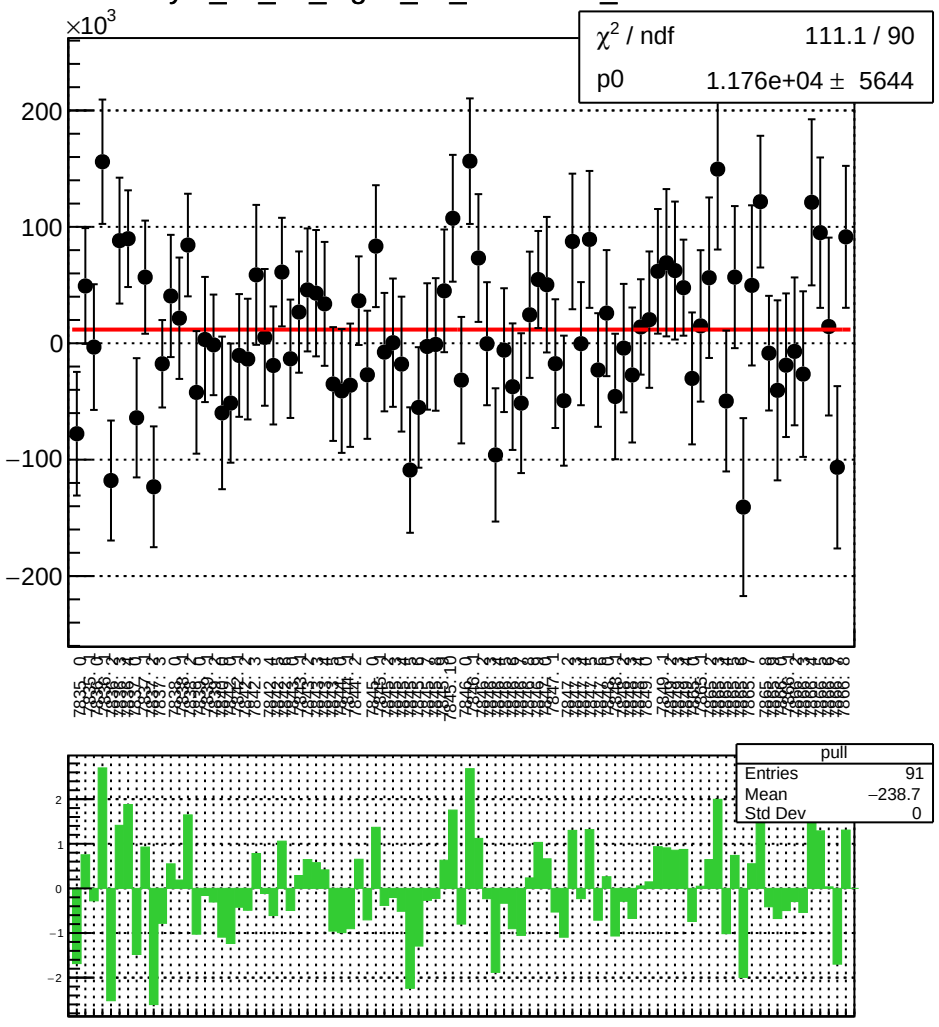

pull1D
Entries 91
Mean −0.01015
Std Dev 1.105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

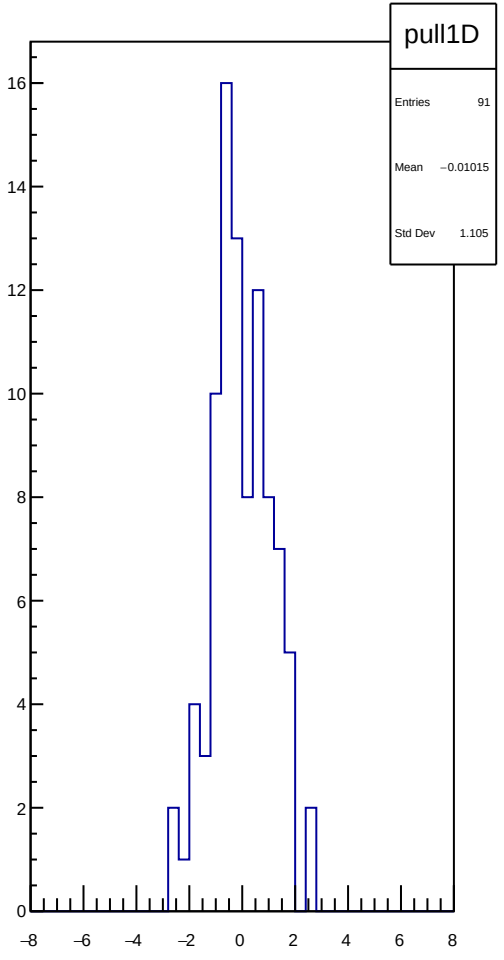

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 1.616e+04 / 90
p0 5263 ± 3.991
7500
7000
6500
6000
5500
5000
4500

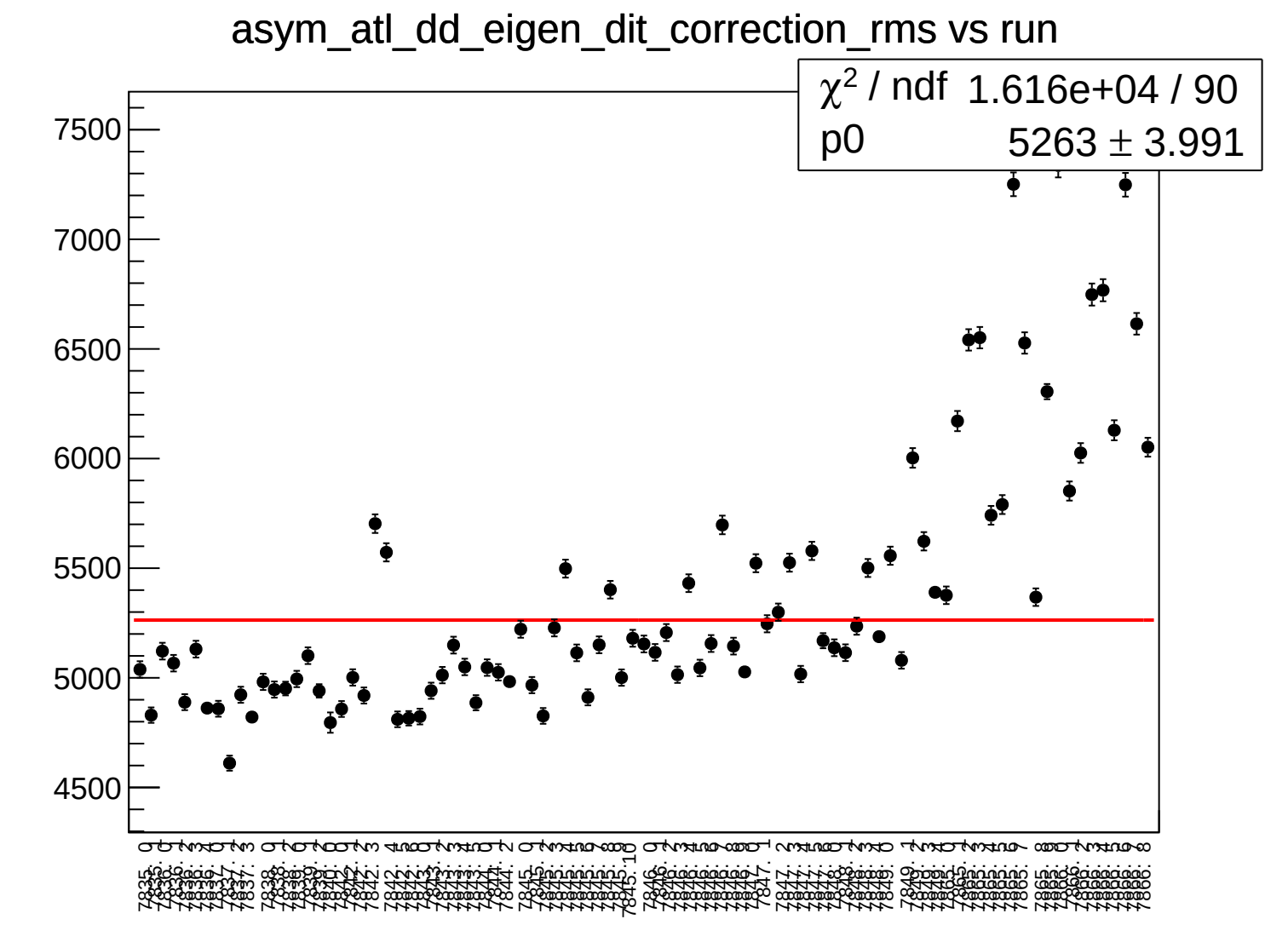

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 98.87 / 90
p0 −342 ± 1746
pull
Entries 91
Mean 235.9
Std Dev 0

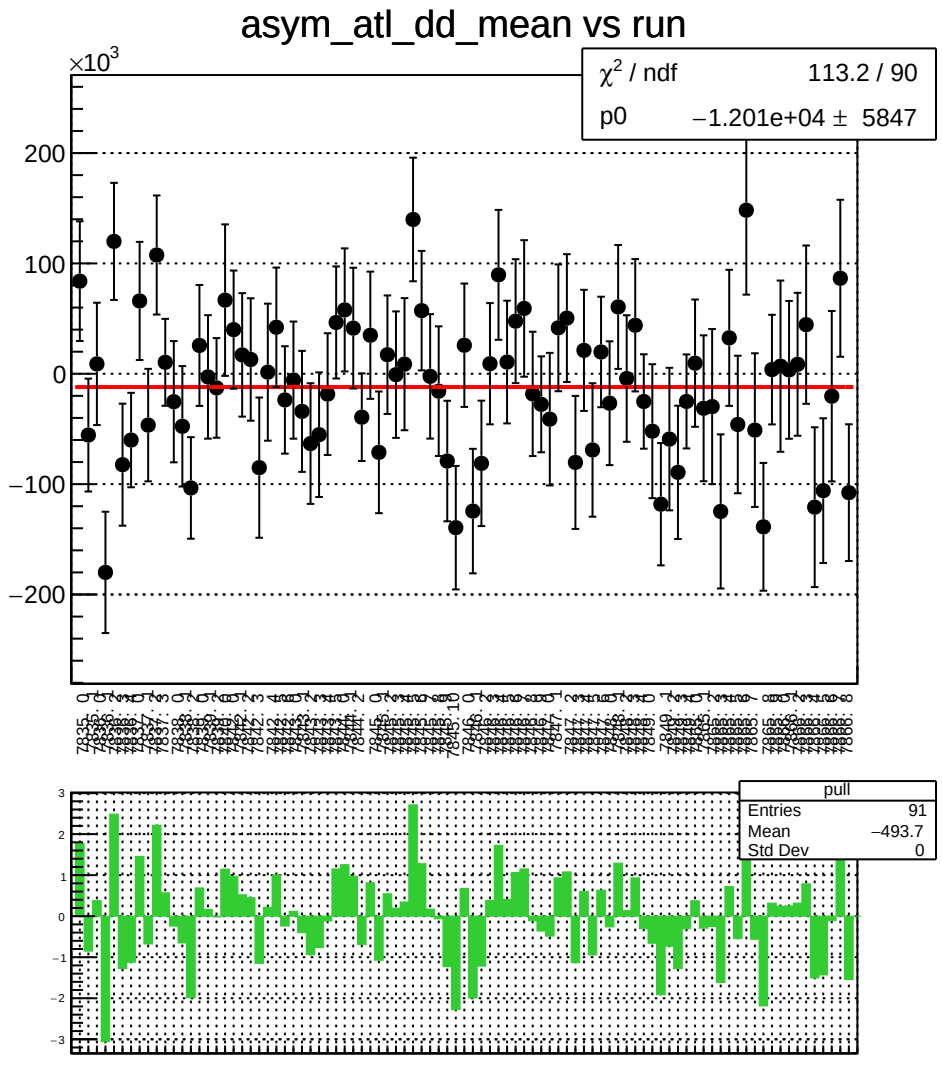

pull1D
Entries 91
Mean −0.009747
Std Dev 1.042

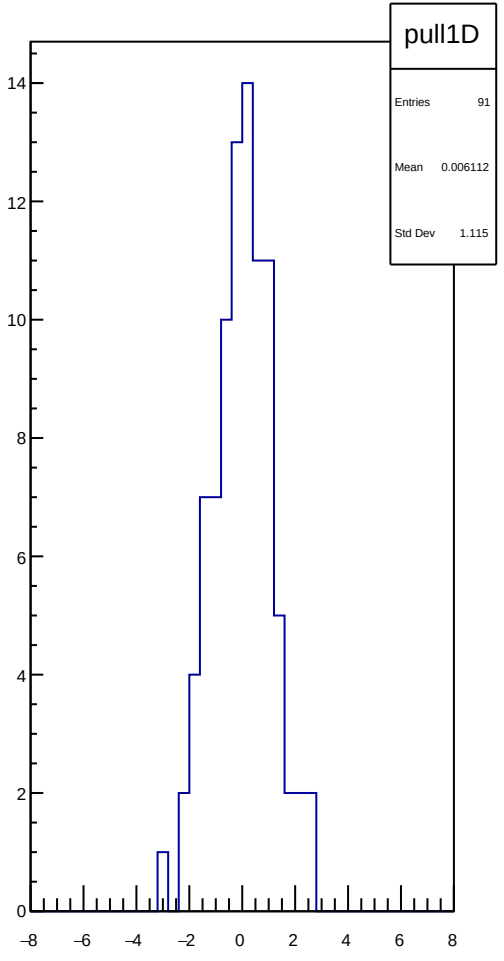

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 212.7 / 90
p0 1635 ± 1.234
1700
1680
1660
1640
1620
1600
1580

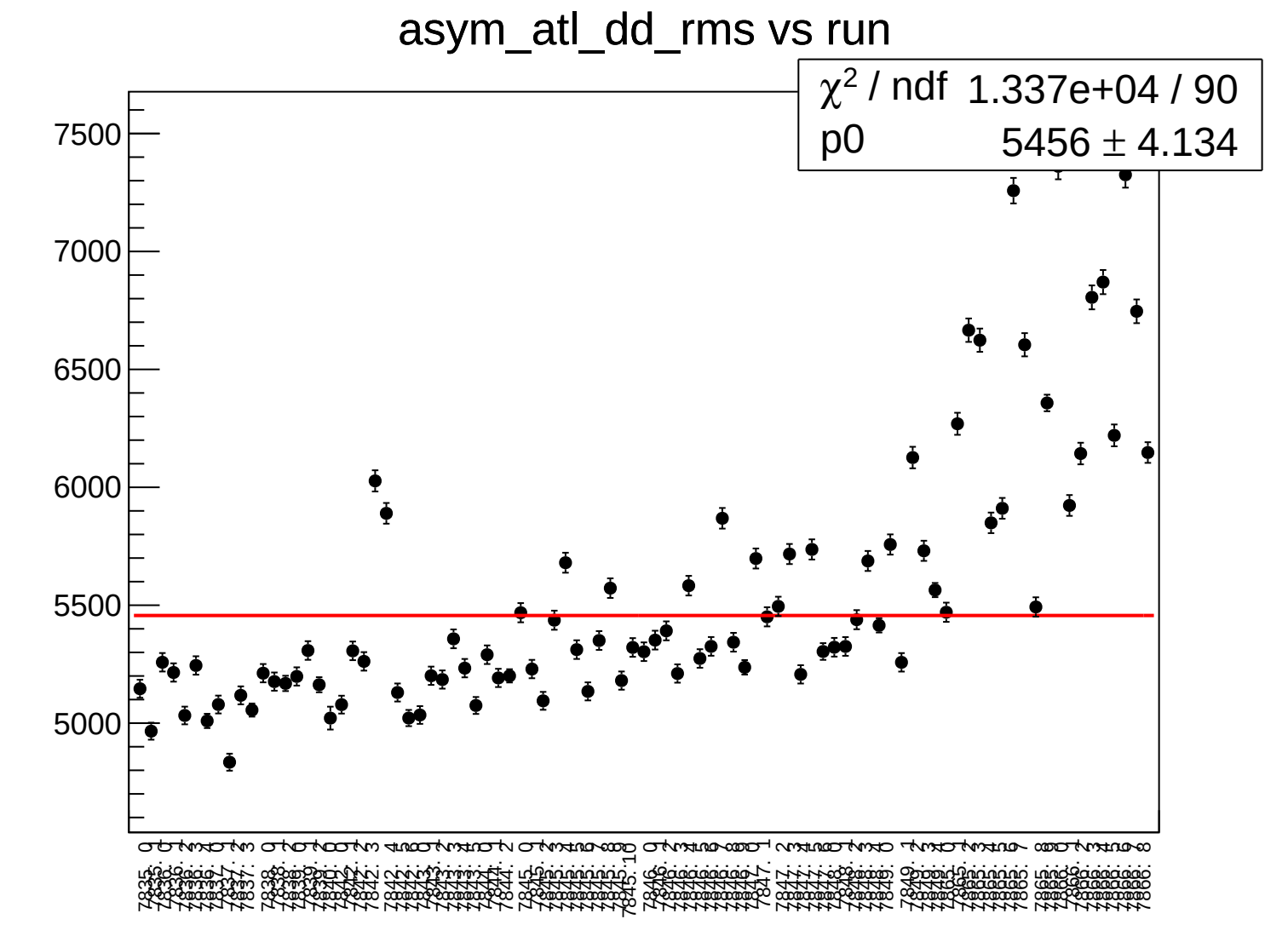

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 111.1 / 90
p0 1.176e+04 ± 5644
200
100
0
−100
−200
pull
Entries 91
Mean −238.7
Std Dev 0
2
1
0
−1
−2

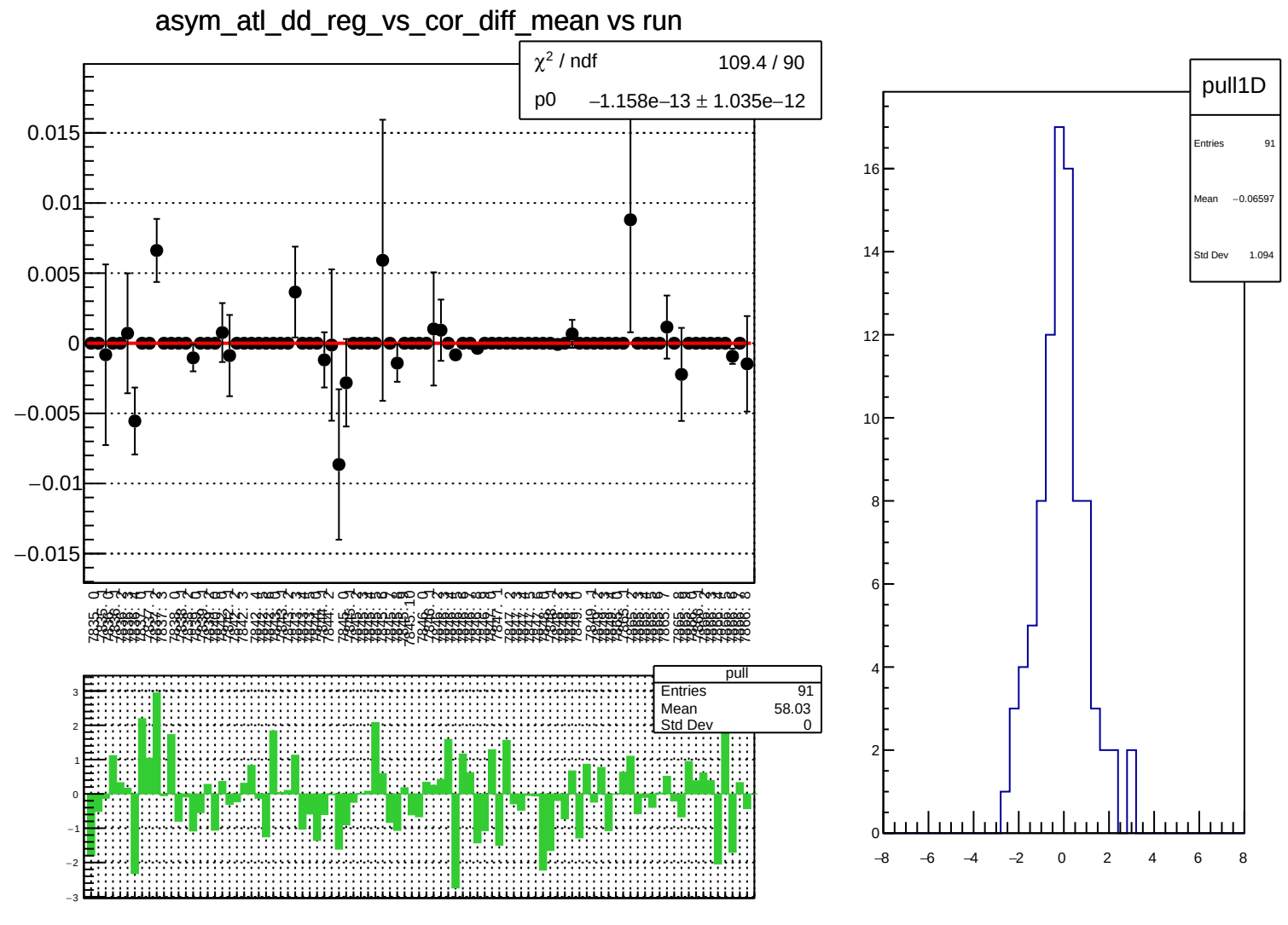

pull1D
Entries 91
Mean −0.01015
Std Dev 1.105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

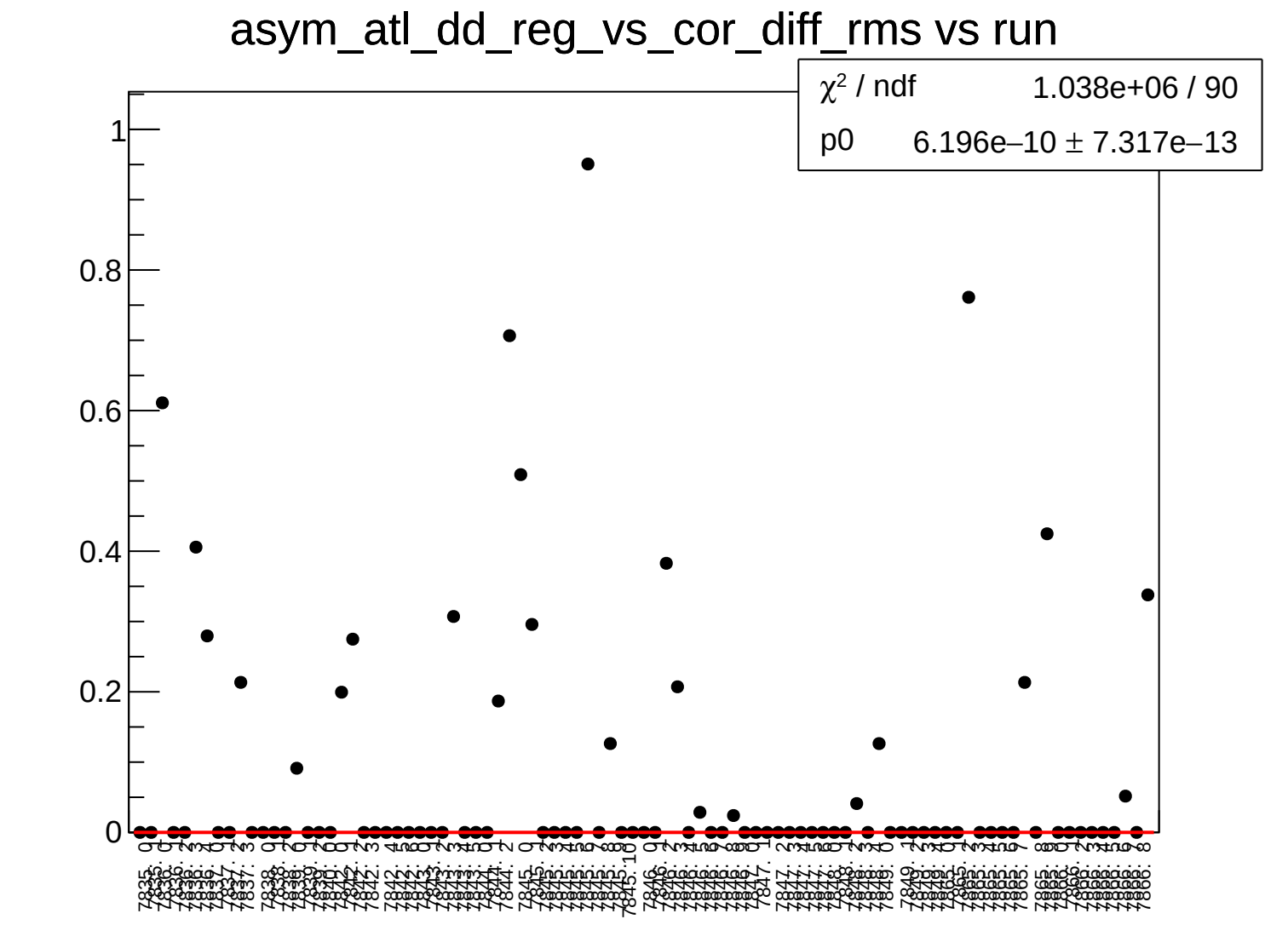

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.616e+04 / 90
p0 5263 ± 3.991
7500
7000
6500
6000
5500
5000
4500

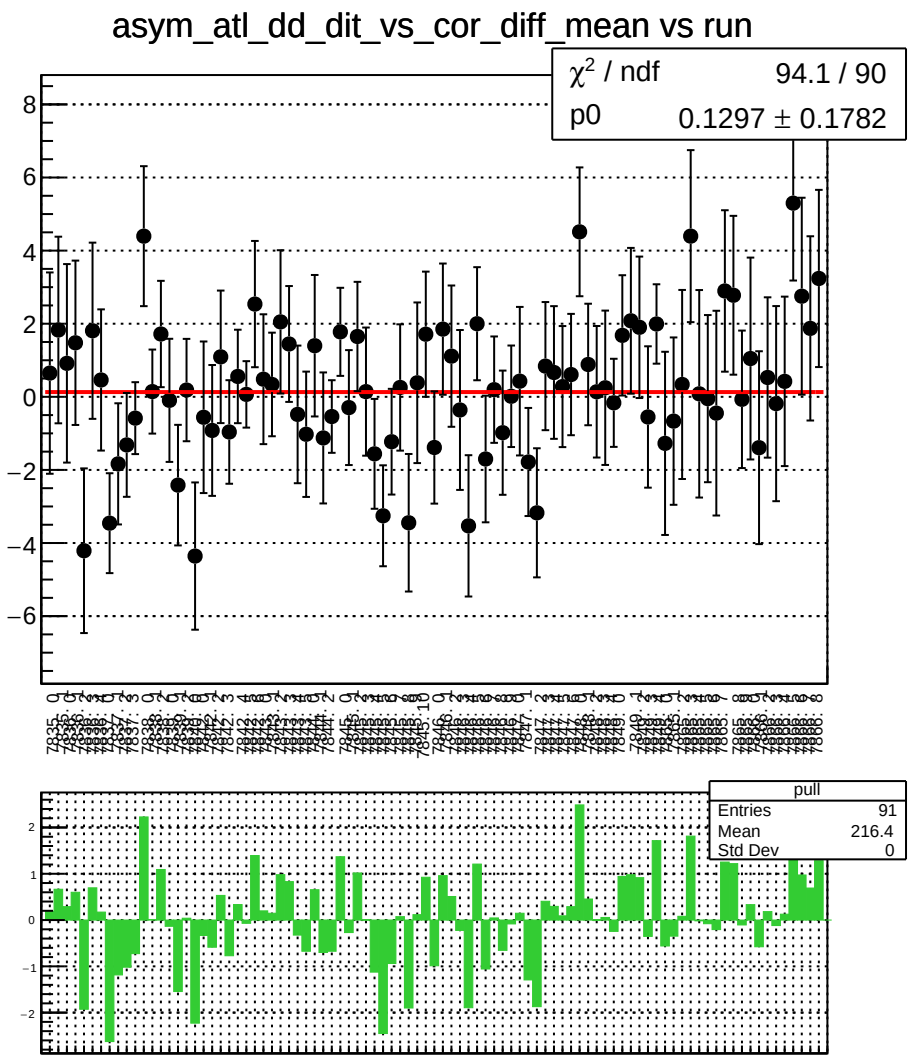

asym_atl_dd_mean vs run
×10^3
χ² / ndf 113.2 / 90
p0 −1.201e+04 ± 5847
200
100
0
−100
−200
pull
Entries 91
Mean −493.7
Std Dev 0
3
2
1
0
−1
−2
−3

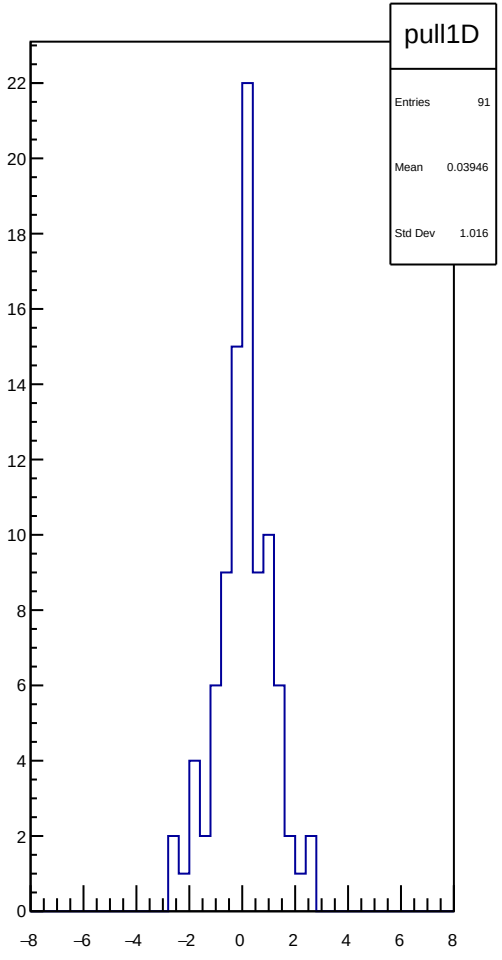

pull1D
Entries 91
Mean 0.006112
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

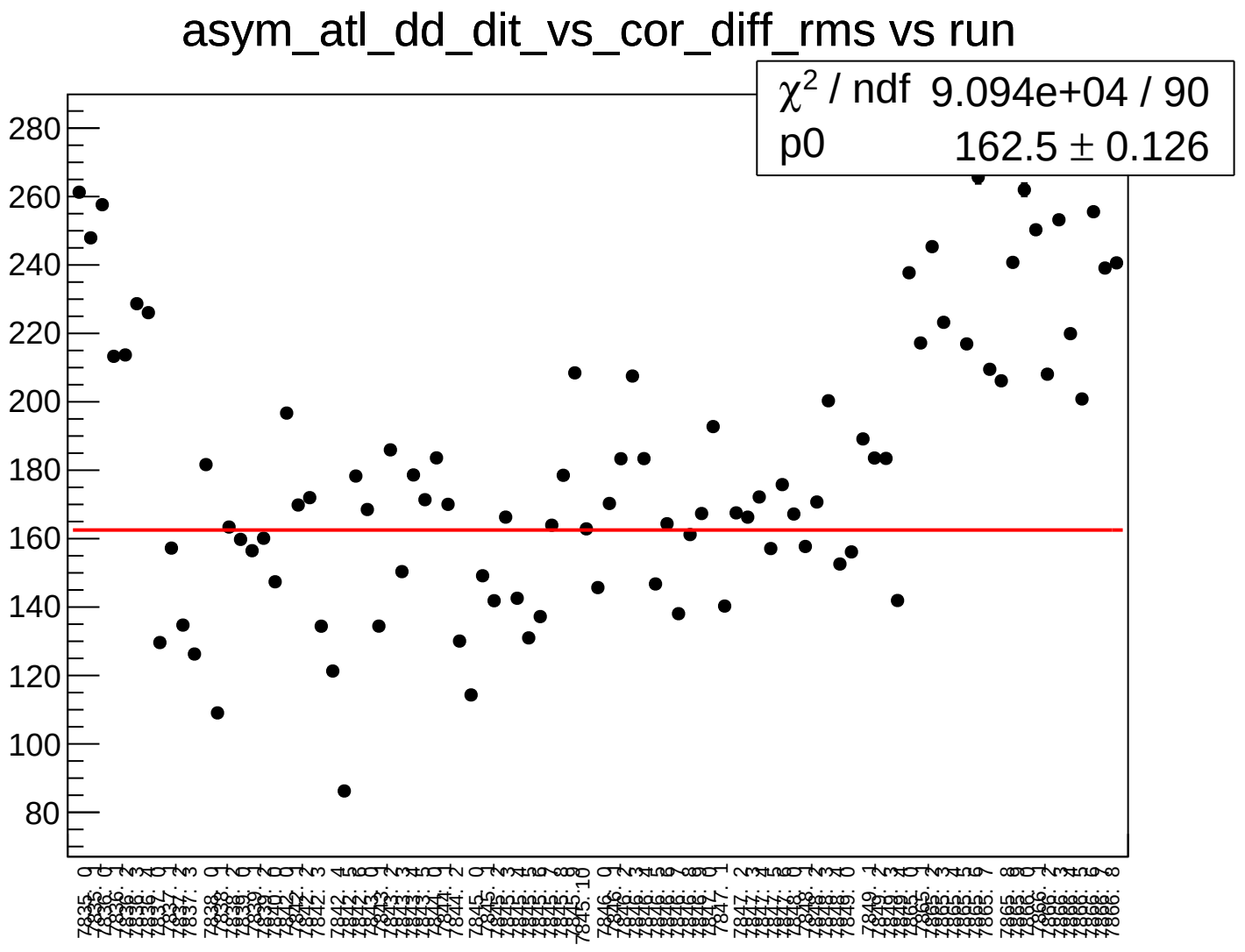

asym_atl_dd_rms vs run
χ^2 / ndf 1.337e+04 / 90
p0 5456 ± 4.134
7500
7000
6500
6000
5500
5000

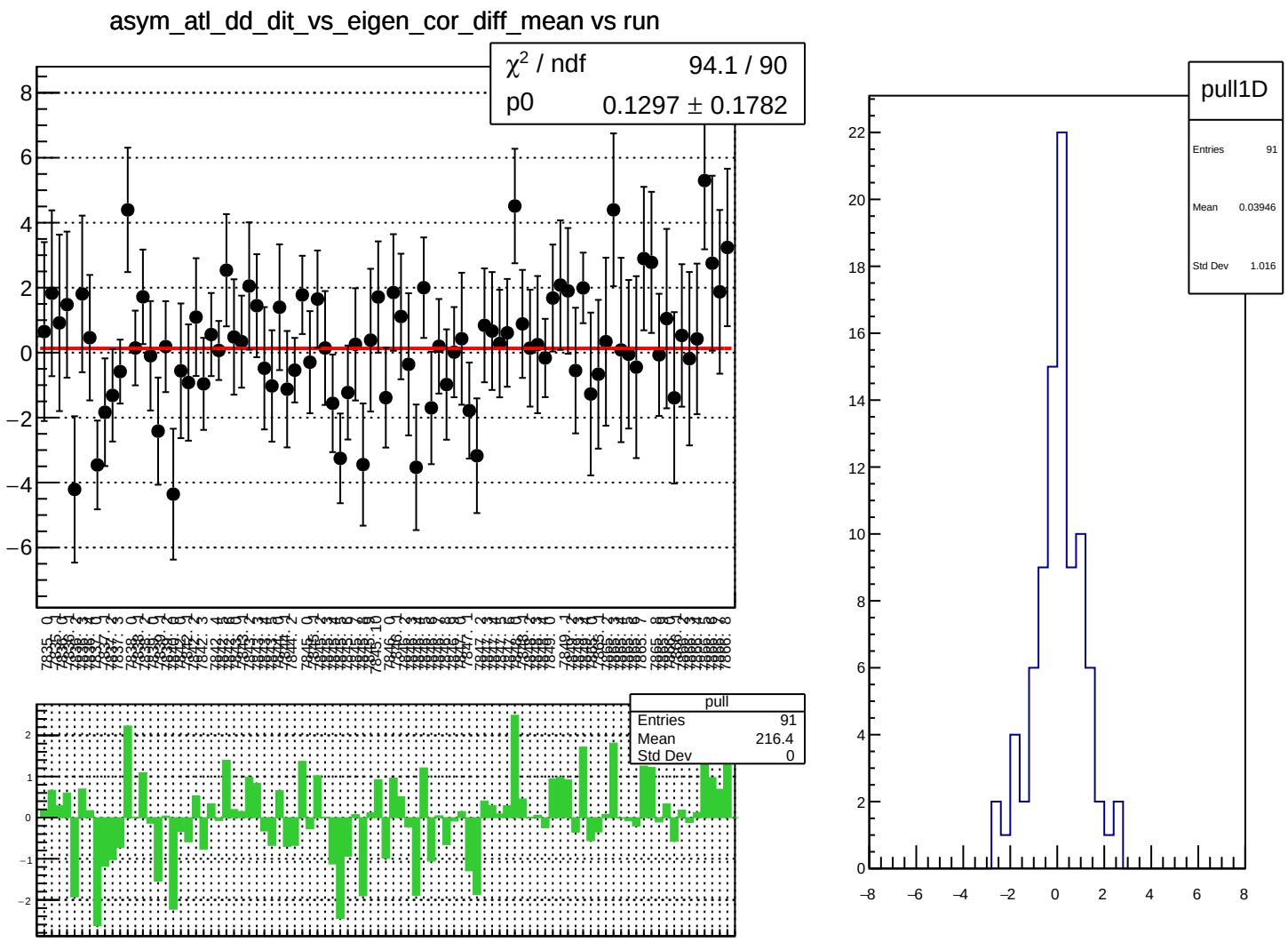

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 90
p0 −1.158e−13 ± 1.035e−12
pull
Entries 91
Mean 58.03
Std Dev 0
pull1D
Entries 91
Mean −0.06597
Std Dev 1.094

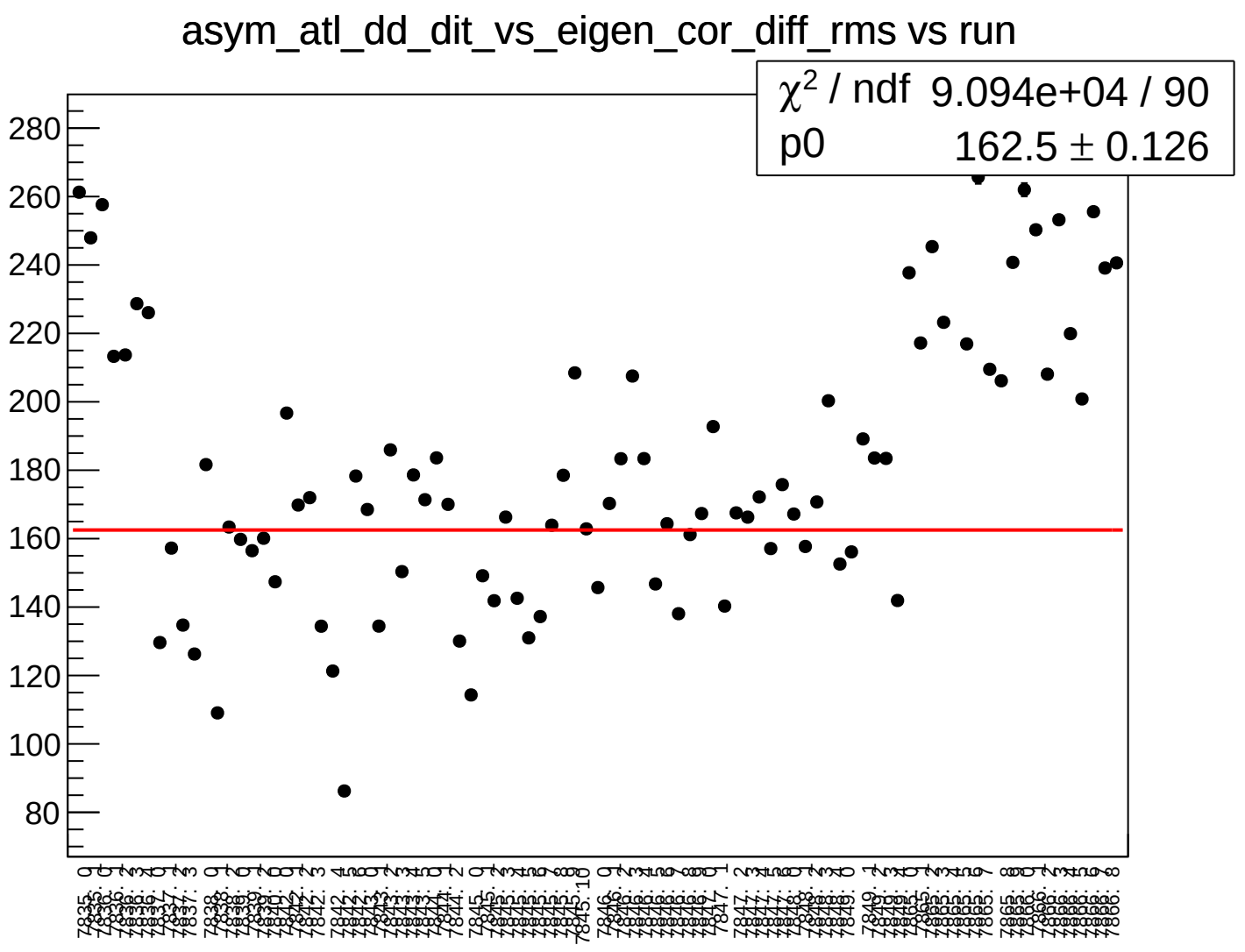

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 90
p0 6.196e−10 ± 7.317e−13
1
0.8
0.6
0.4
0.2
0

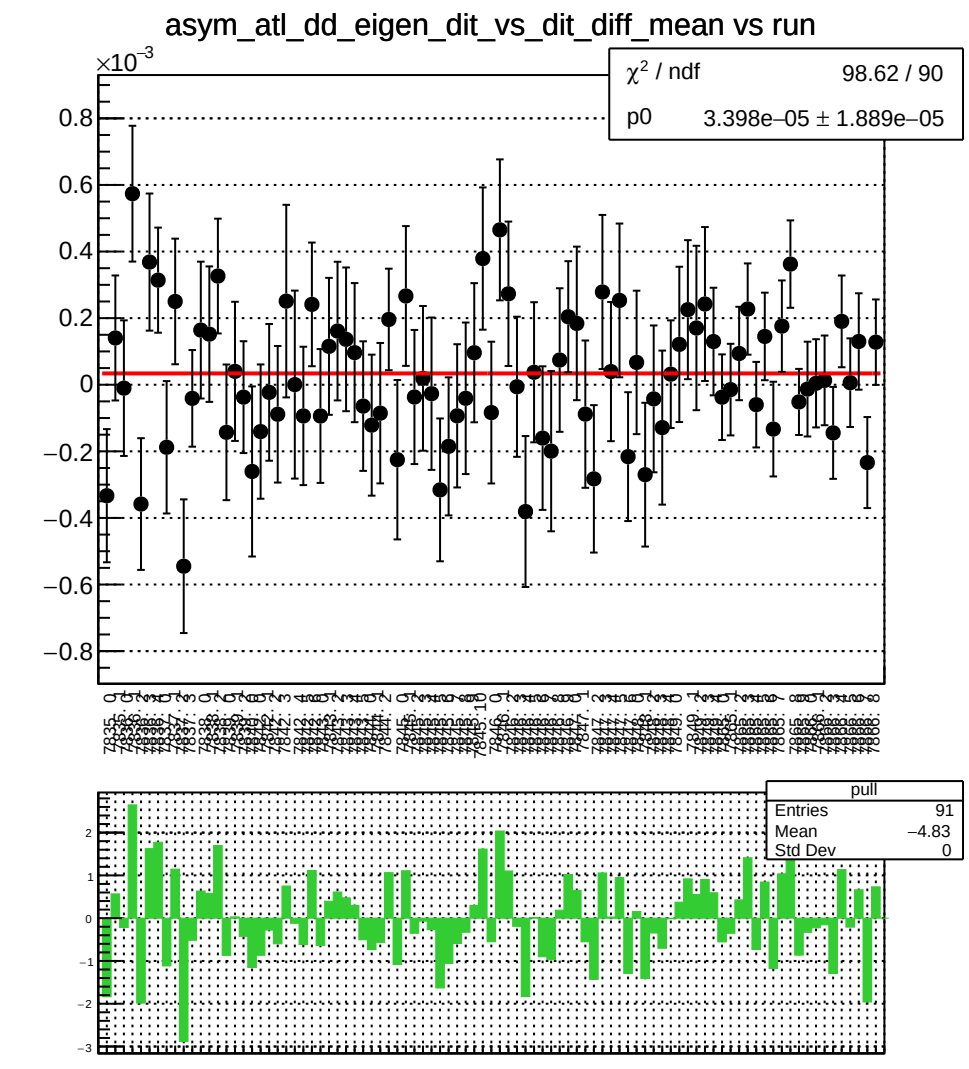

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 90
p0 0.1297 ± 0.1782
pull
Entries 91
Mean 216.4
Std Dev 0

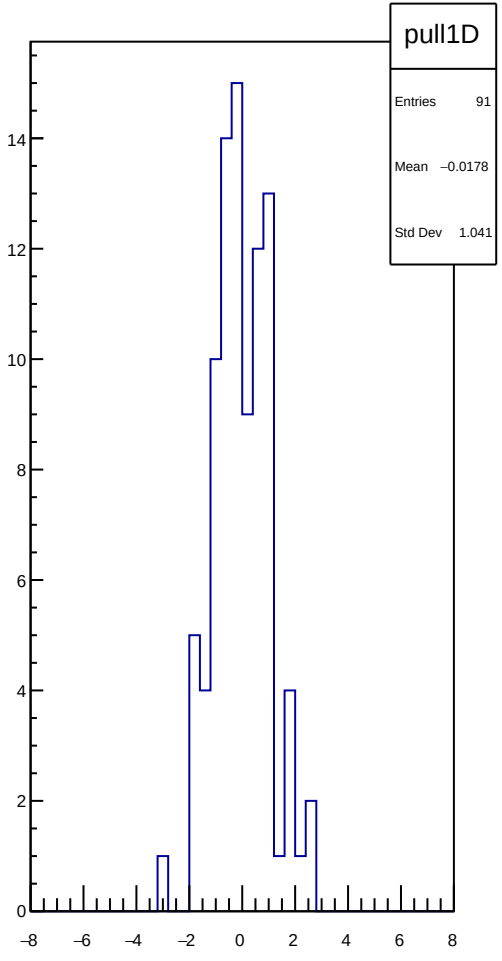

pull1D
Entries 91
Mean 0.03946
Std Dev 1.016

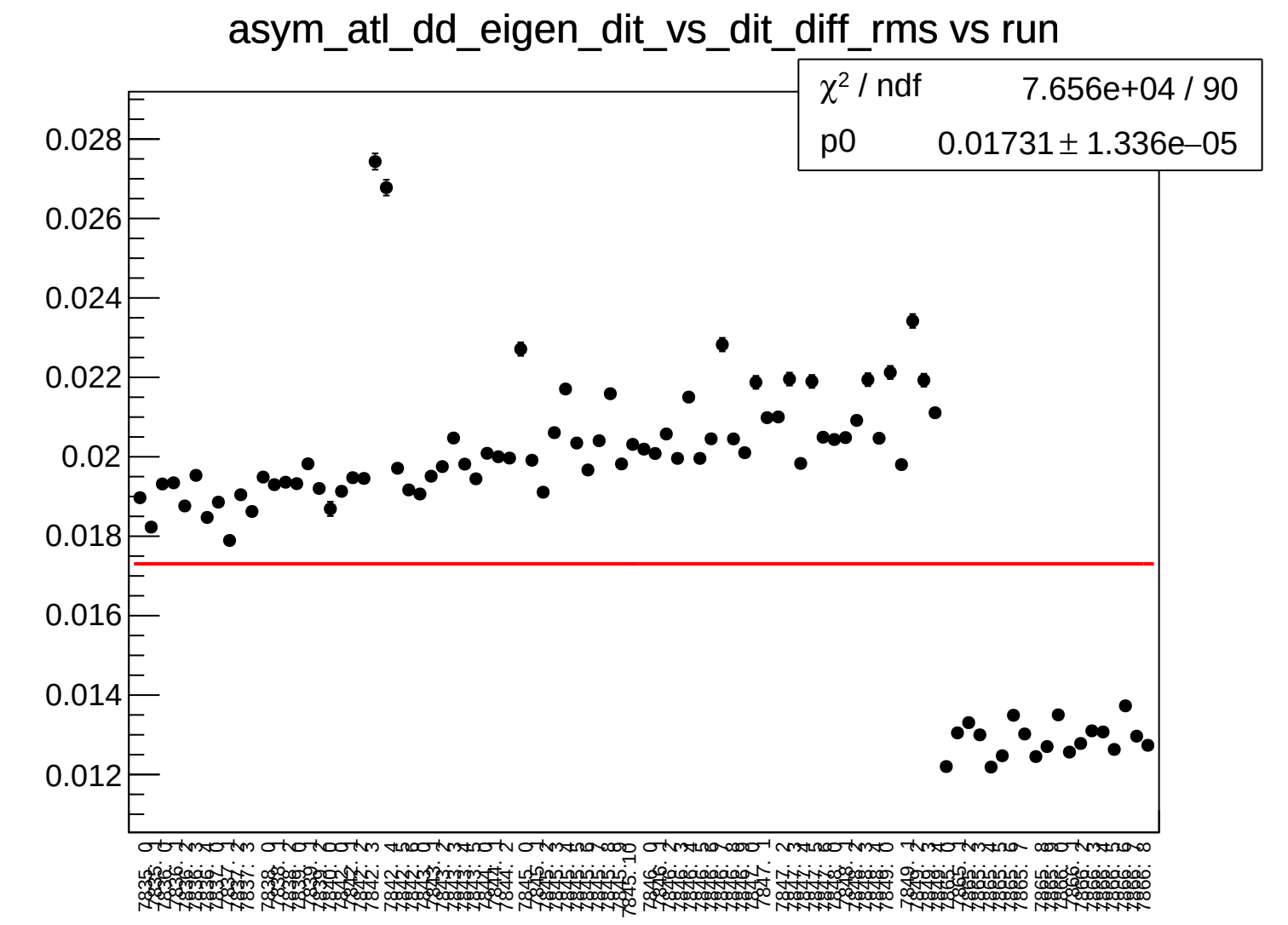

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.094e+04 / 90
p0 162.5 ± 0.126
280
260
240
220
200
180
160
140
120
100
80

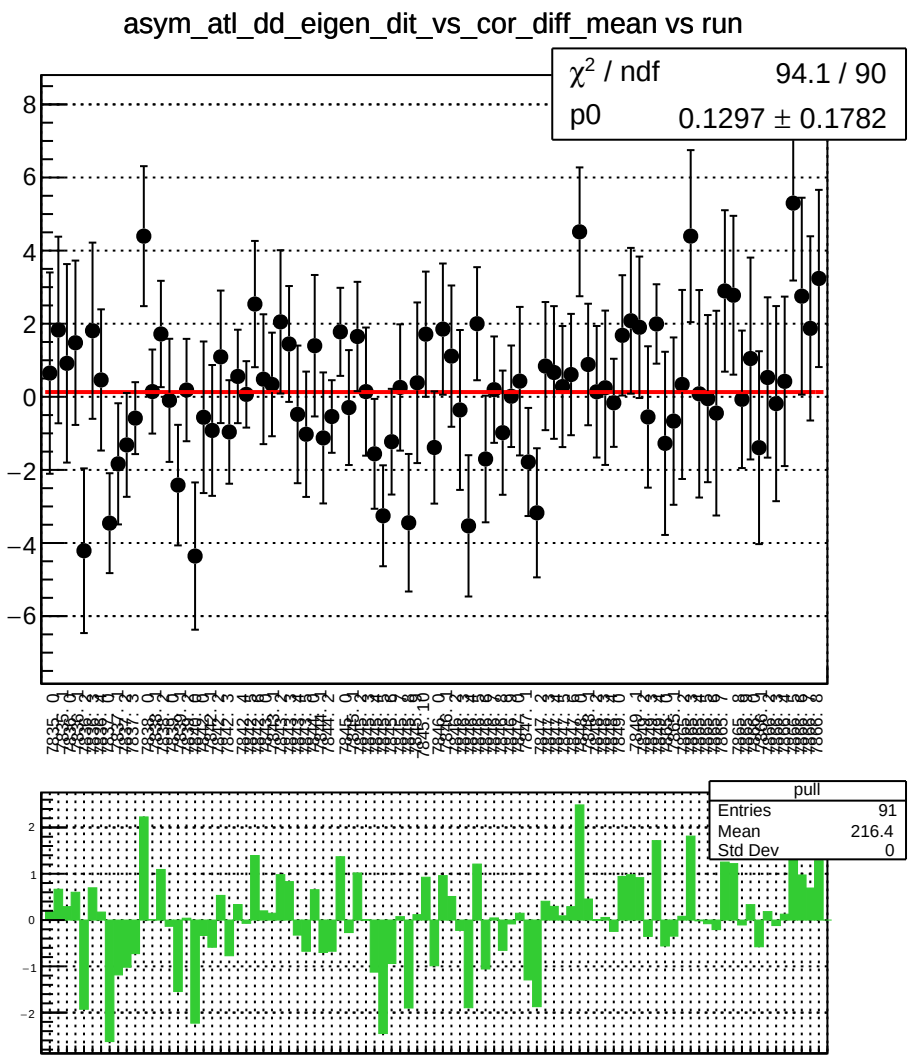

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 90
p0 0.1297 ± 0.1782
pull
Entries 91
Mean 216.4
Std Dev 0
pull1D
Entries 91
Mean 0.03946
Std Dev 1.016

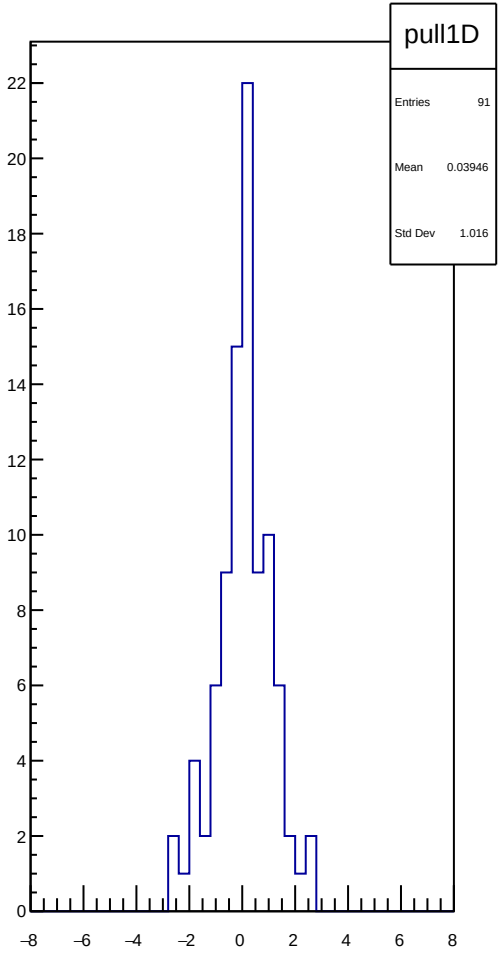

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.094e+04 / 90
p0 162.5 ± 0.126
280
260
240
220
200
180
160
140
120
100
80

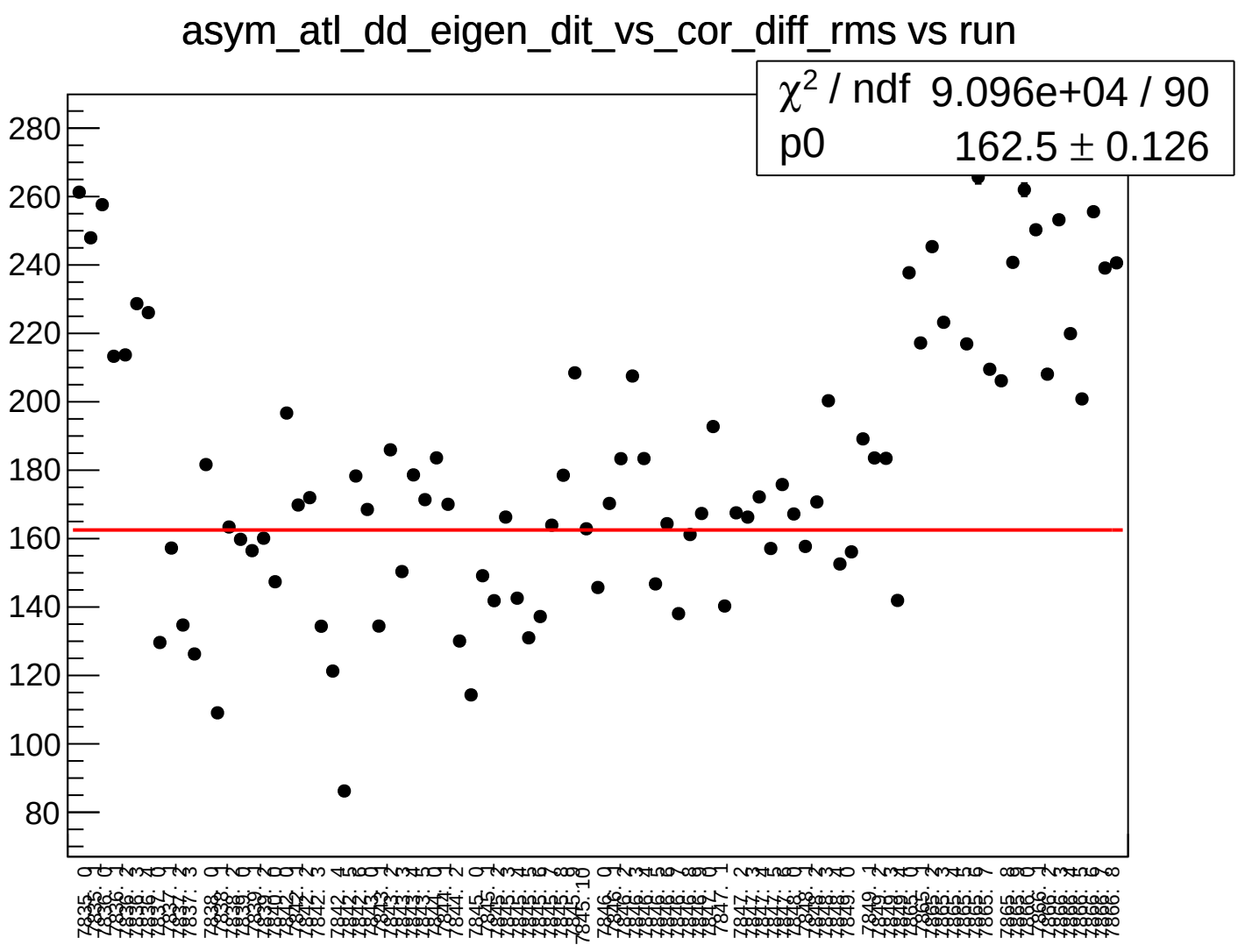

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.62 / 90
p0 3.398e−05 ± 1.889e−05
pull
Entries 91
Mean −4.83
Std Dev 0

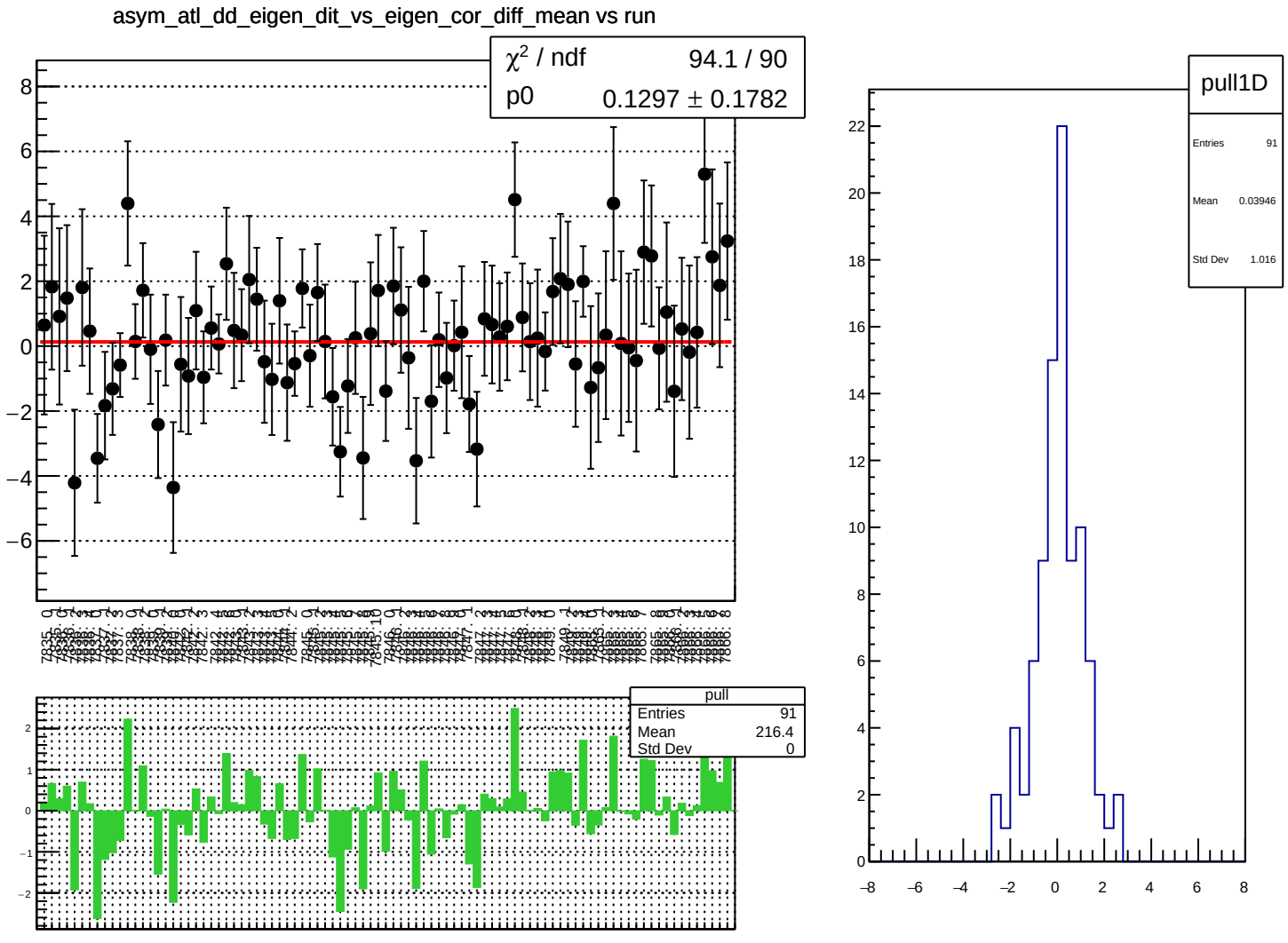

pull1D
Entries 91
Mean −0.0178
Std Dev 1.041

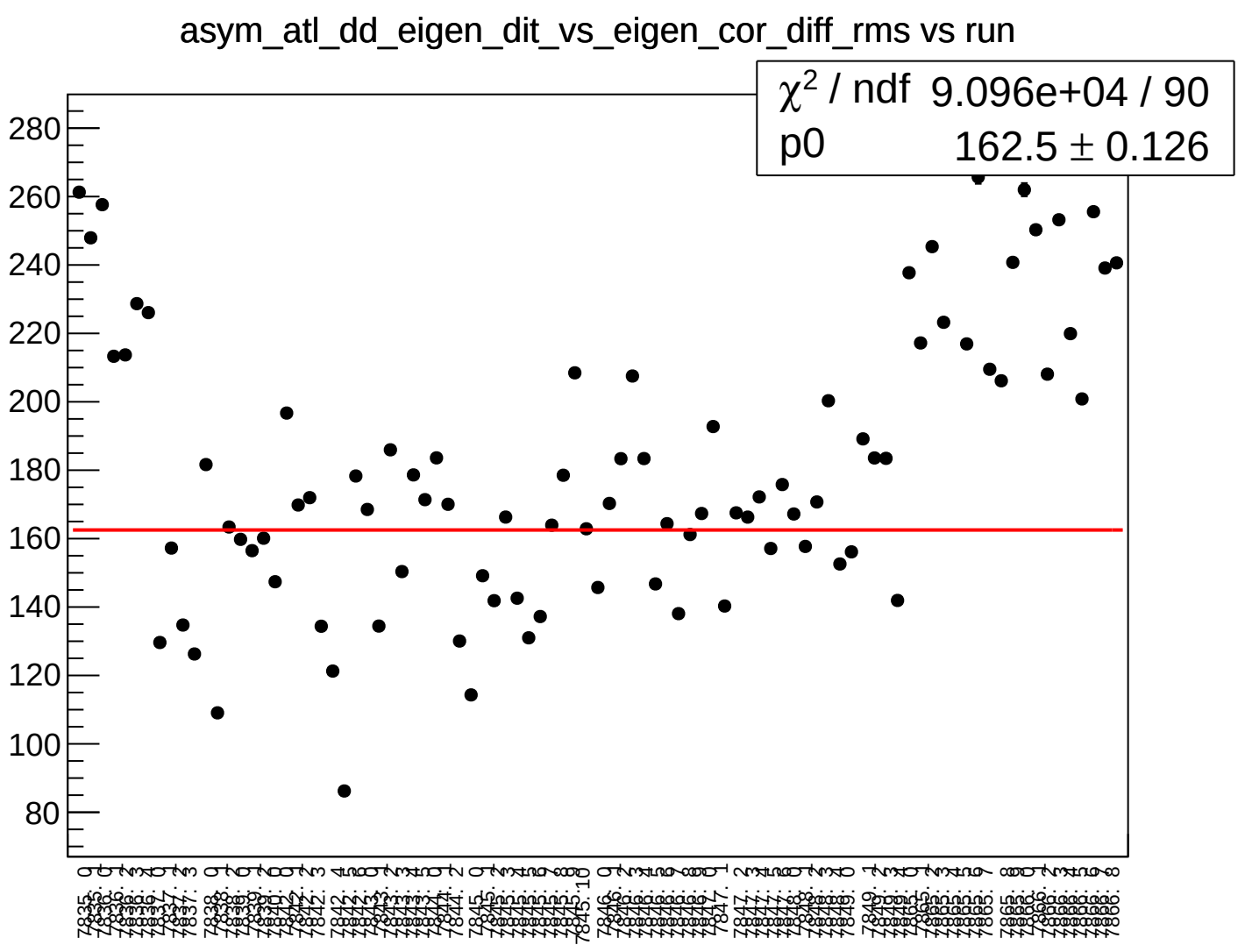

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.656e+04 / 90
p0 0.01731 ± 1.336e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

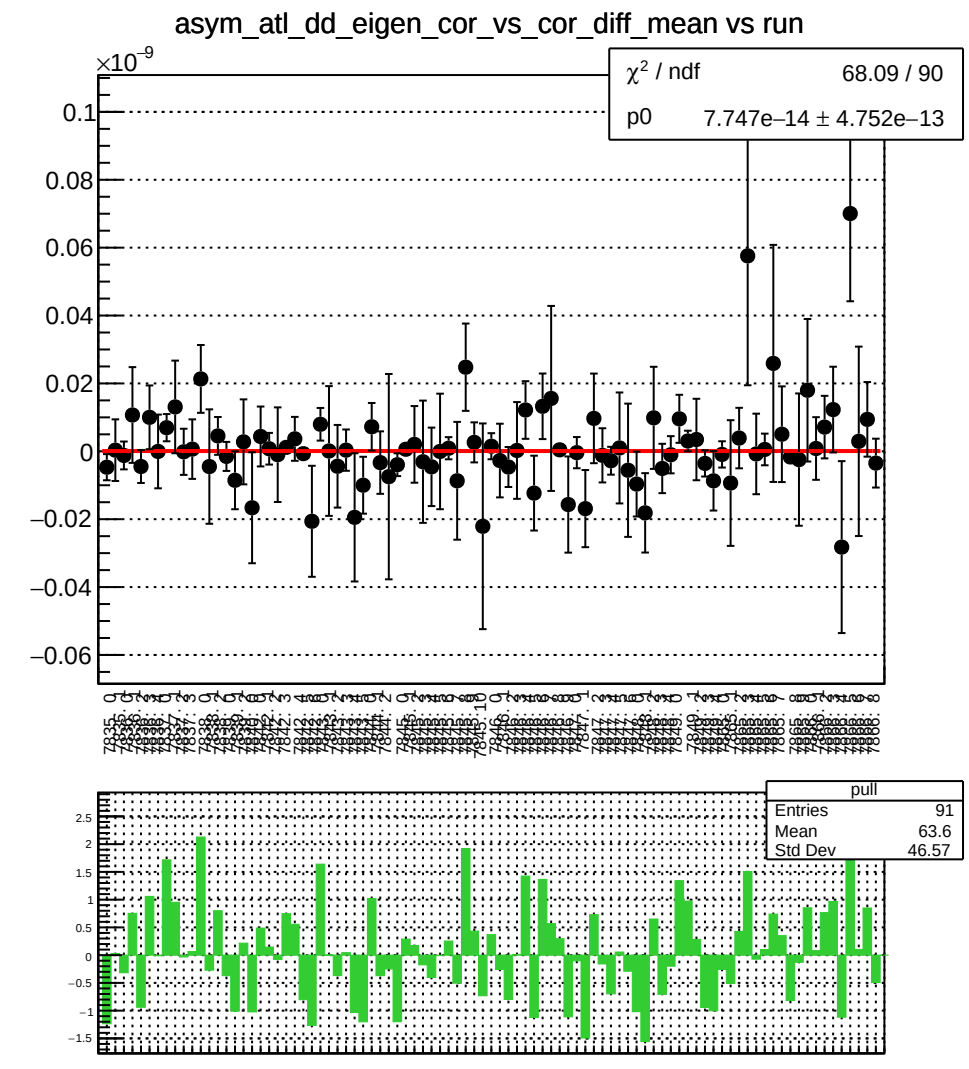

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 90
p0 0.1297 ± 0.1782
pull
Entries 91
Mean 216.4
Std Dev 0

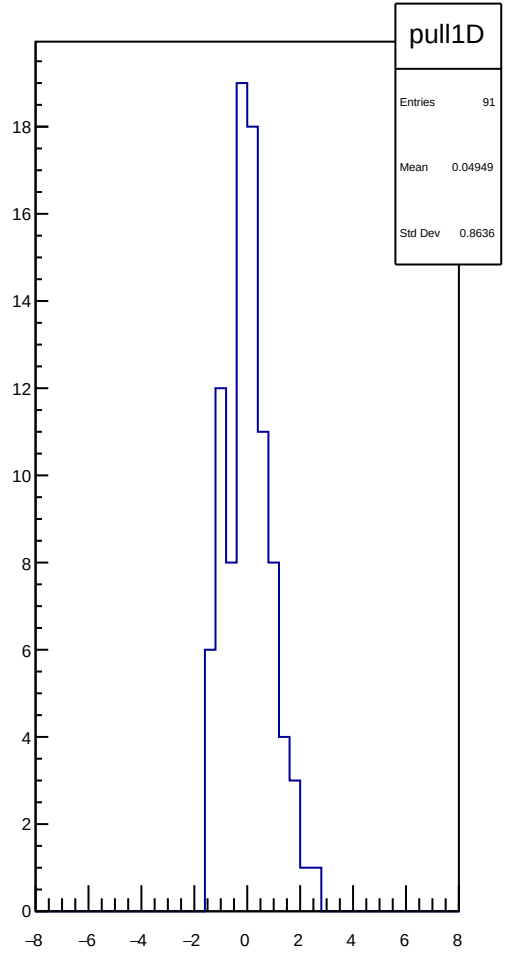

pull1D
Entries 91
Mean 0.03946
Std Dev 1.016

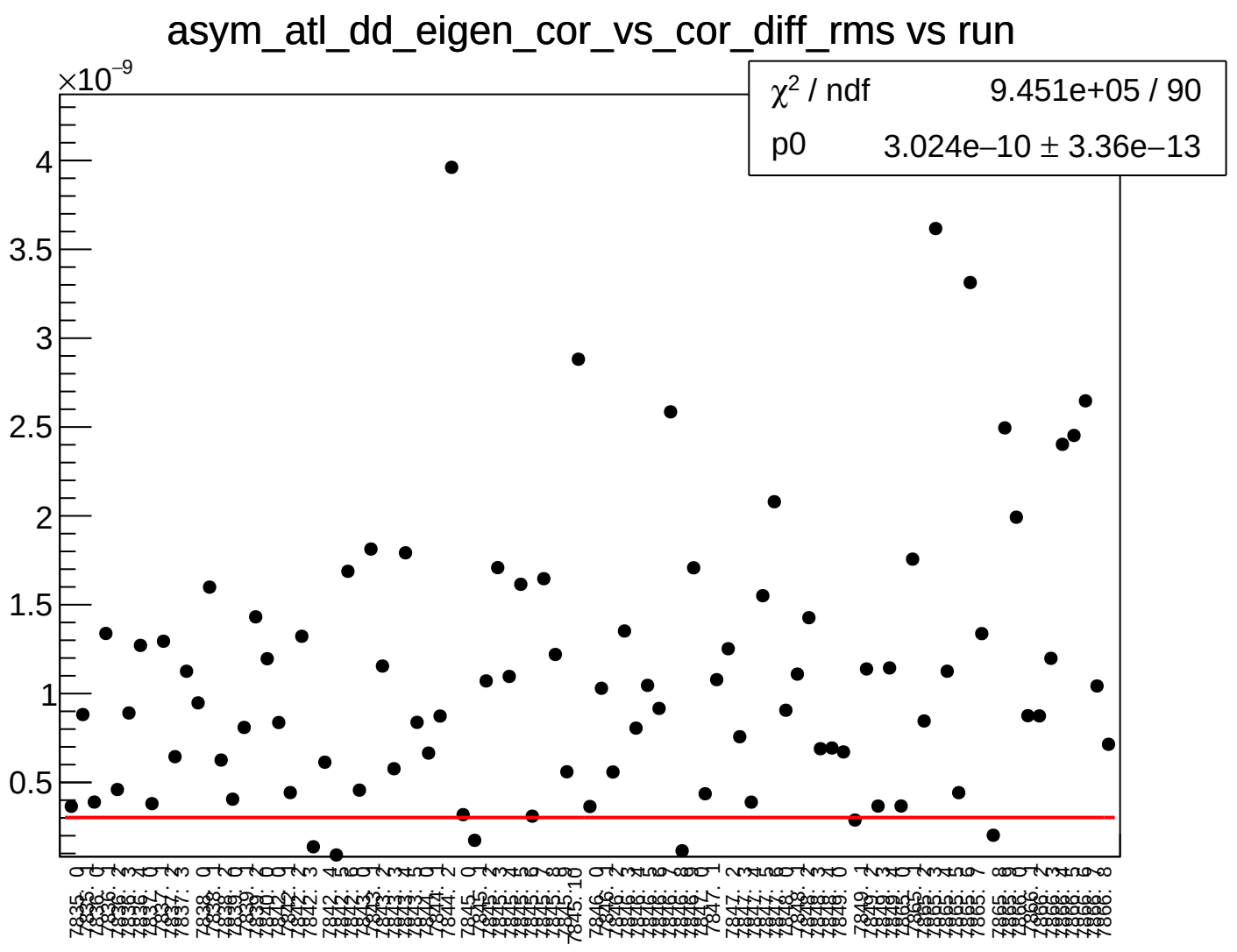

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.096e+04 / 90
p0 162.5 ± 0.126
280
260
240
220
200
180
160
140
120
100
80

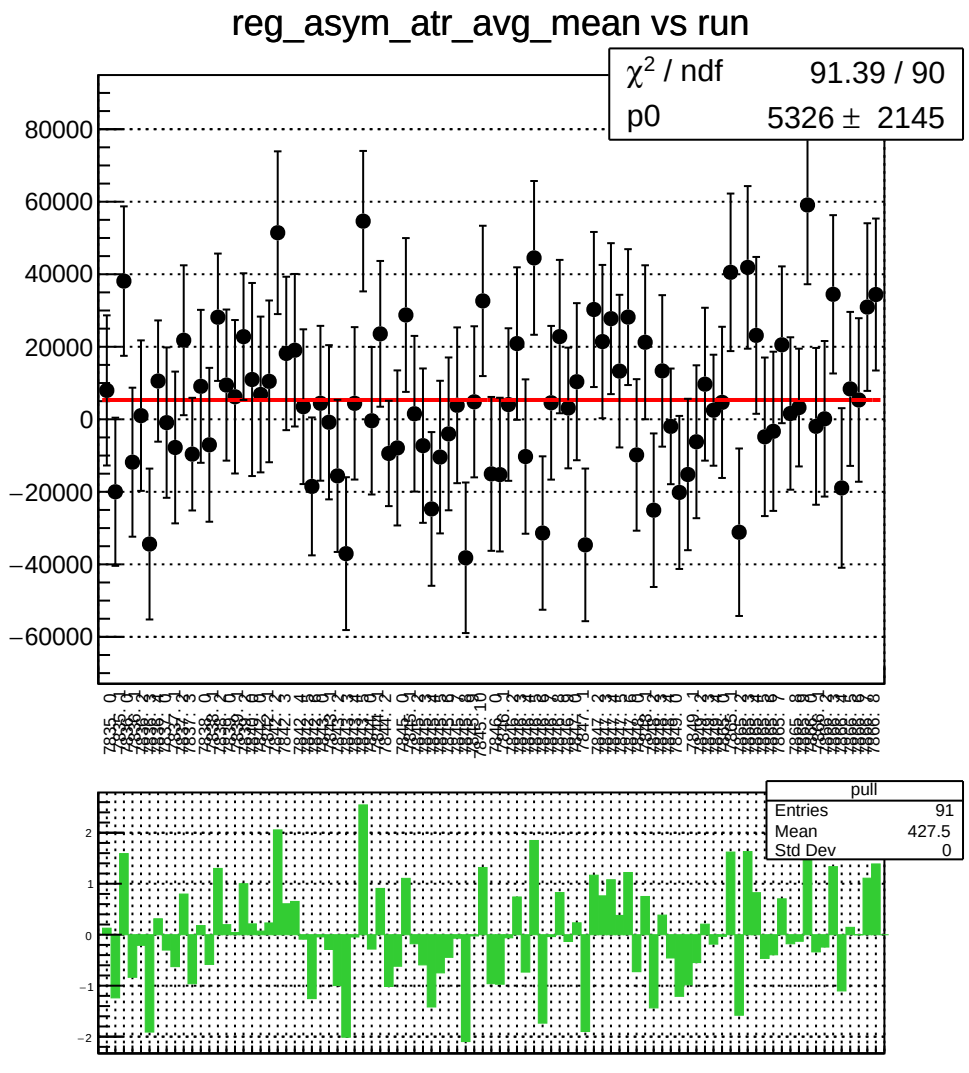

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 90
p0 0.1297 ± 0.1782
pull
Entries 91
Mean 216.4
Std Dev 0
pull1D
Entries 91
Mean 0.03946
Std Dev 1.016

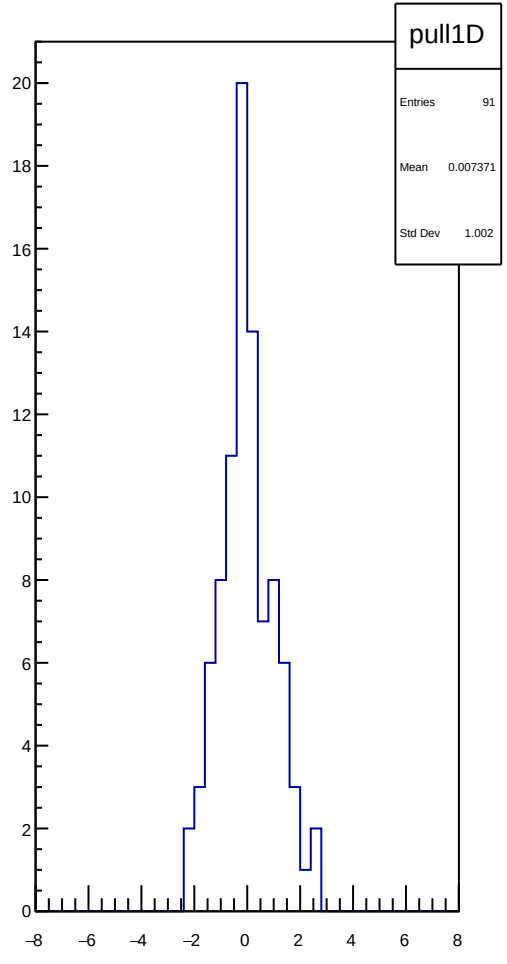

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.096e+04 / 90
p0 162.5 ± 0.126
280
260
240
220
200
180
160
140
120
100
80

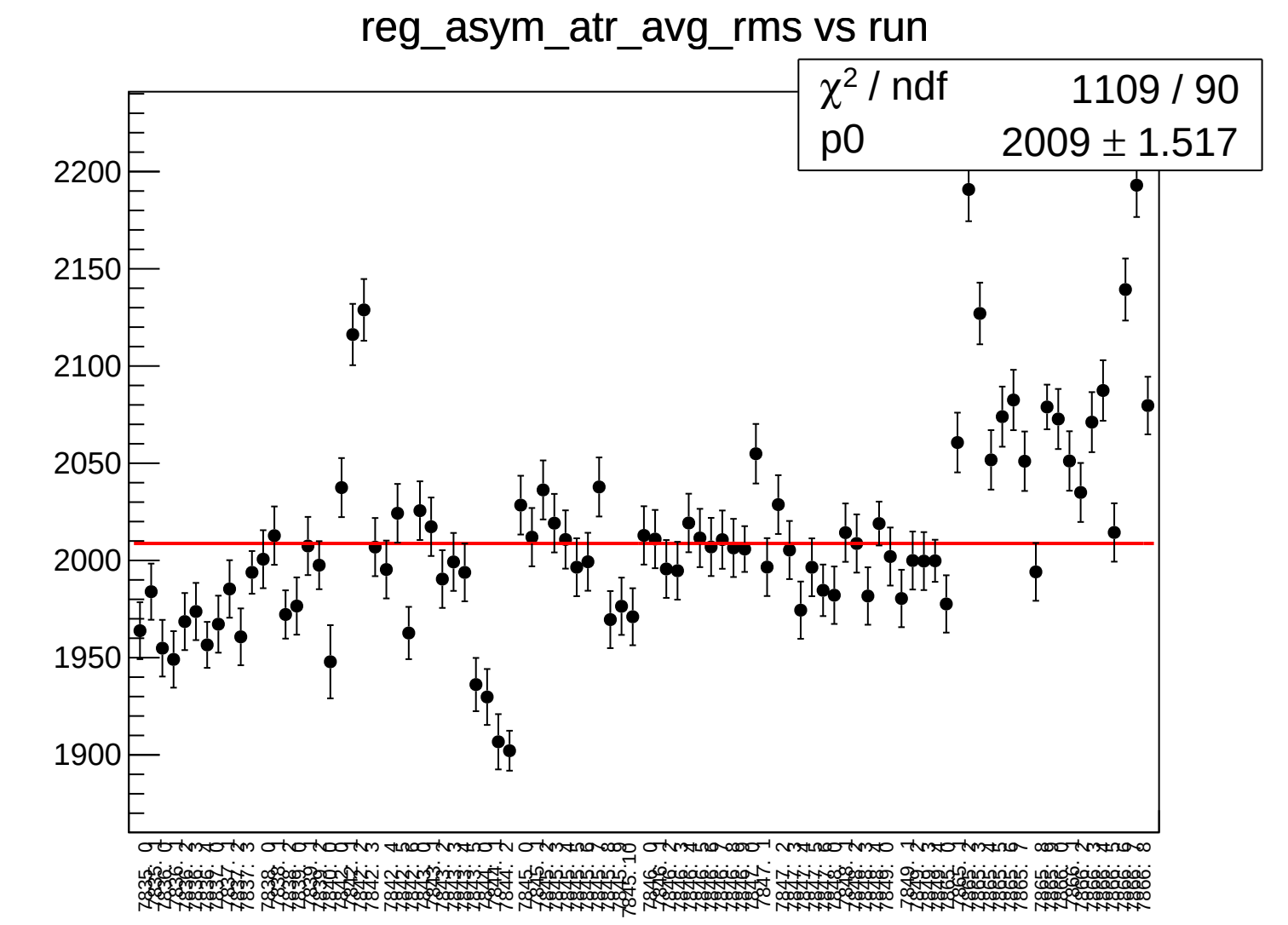

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 68.09 / 90
p0 7.747e−14 ± 4.752e−13
pull
Entries 91
Mean 63.6
Std Dev 46.57

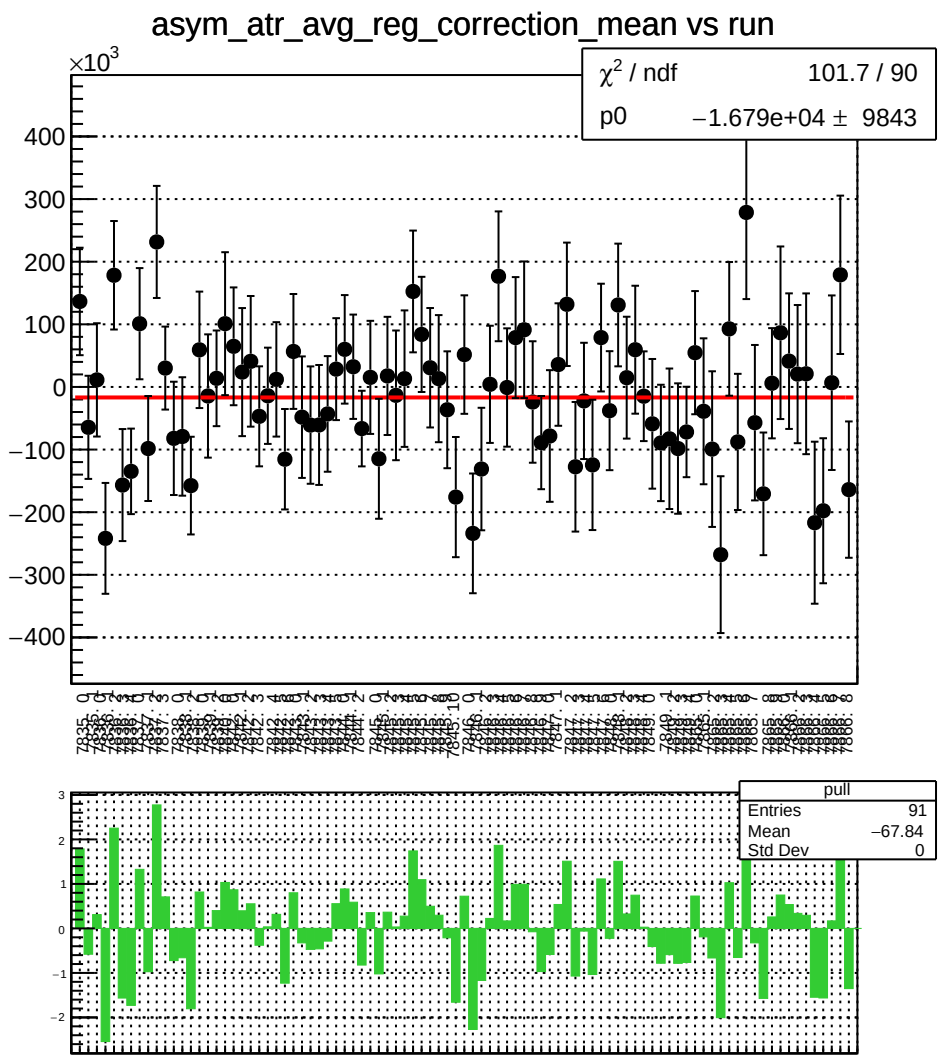

pull1D
Entries 91
Mean 0.04949
Std Dev 0.8636

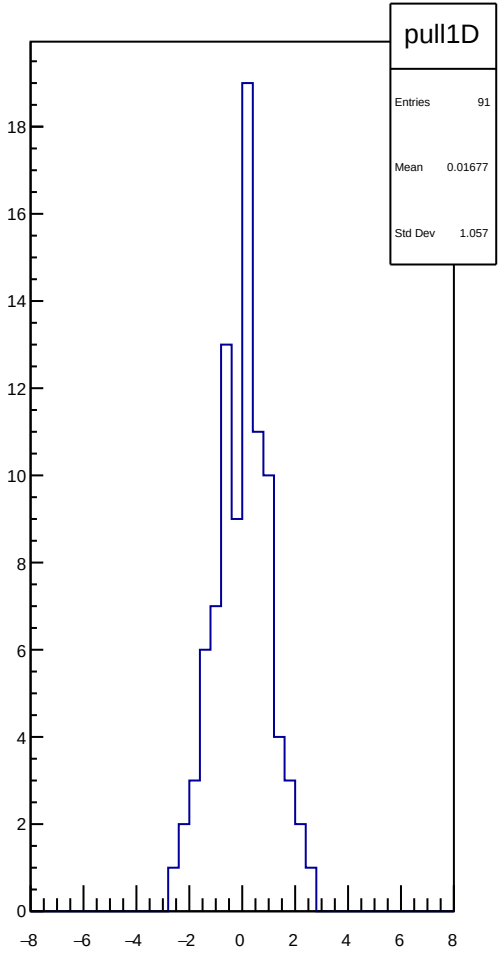

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.451e+05 / 90
p0 3.024e−10 ± 3.36e−13
4
3.5
3
2.5
2
1.5
1
0.5

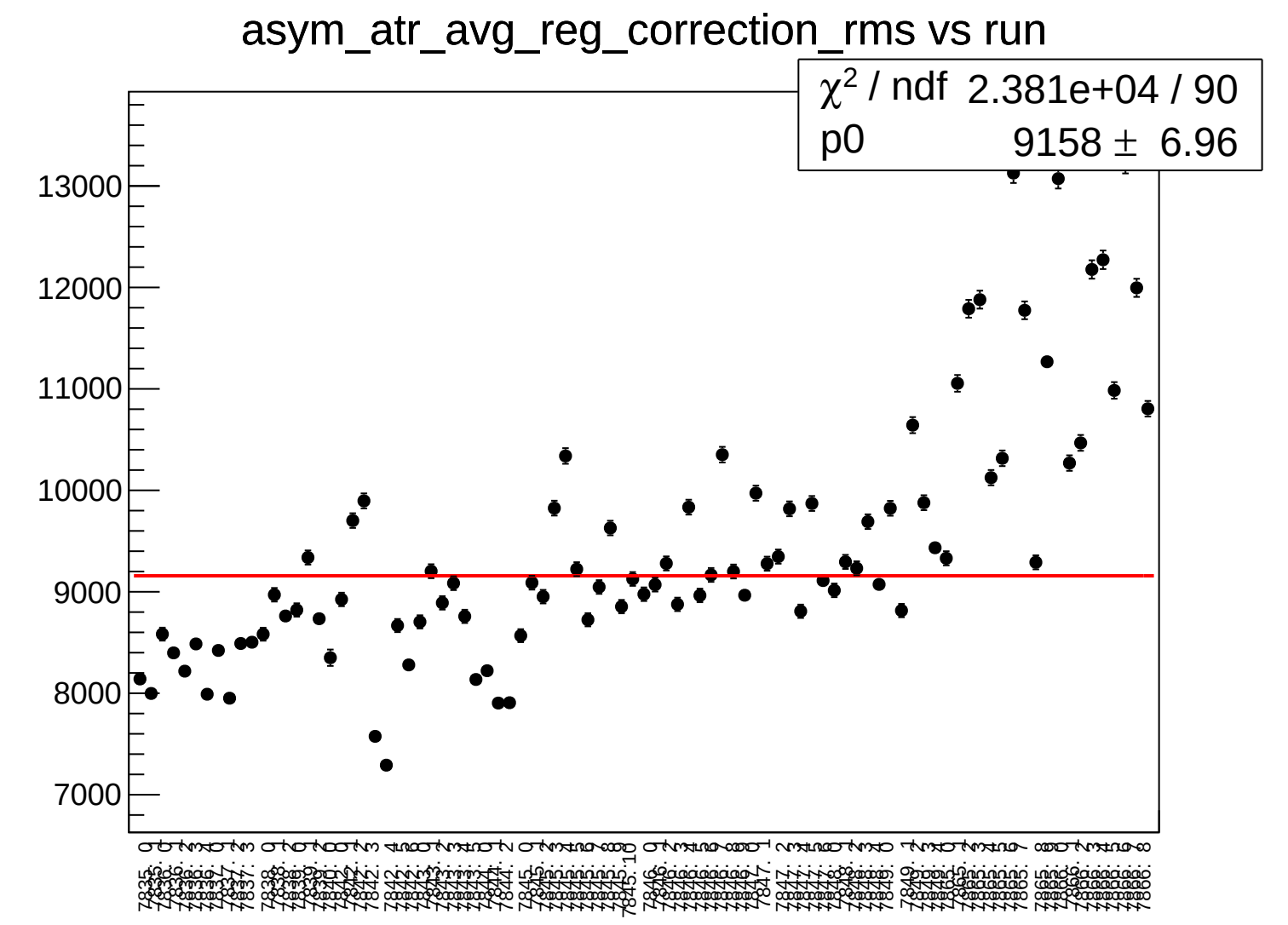

reg_asym_atr_avg_mean vs run
χ² / ndf 91.39 / 90
p0 5326 ± 2145
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 427.5
Std Dev 0
2
1
0
−1
−2

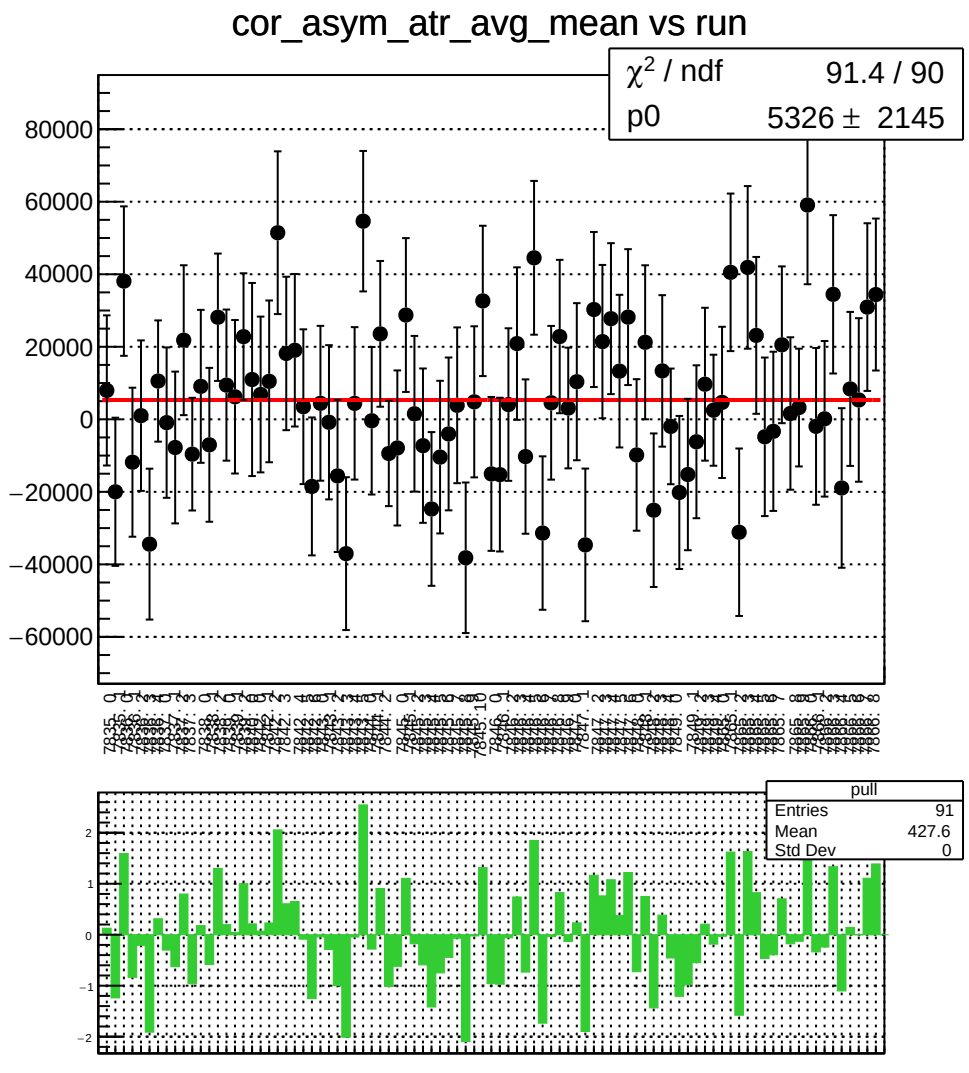

pull1D
Entries 91
Mean 0.007371
Std Dev 1.002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

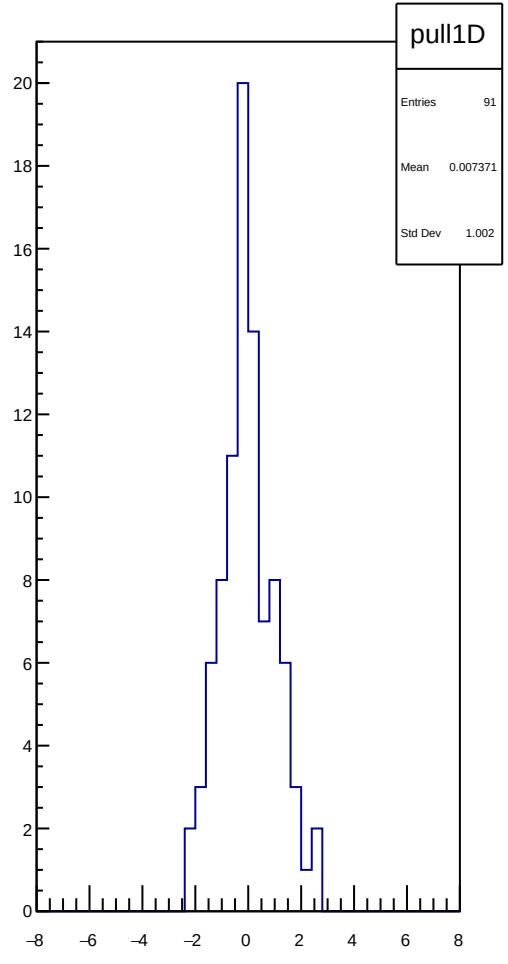

reg_asym_atr_avg_rms vs run
χ² / ndf 1109 / 90
p0 2009 ± 1.517
2200
2150
2100
2050
2000
1950
1900

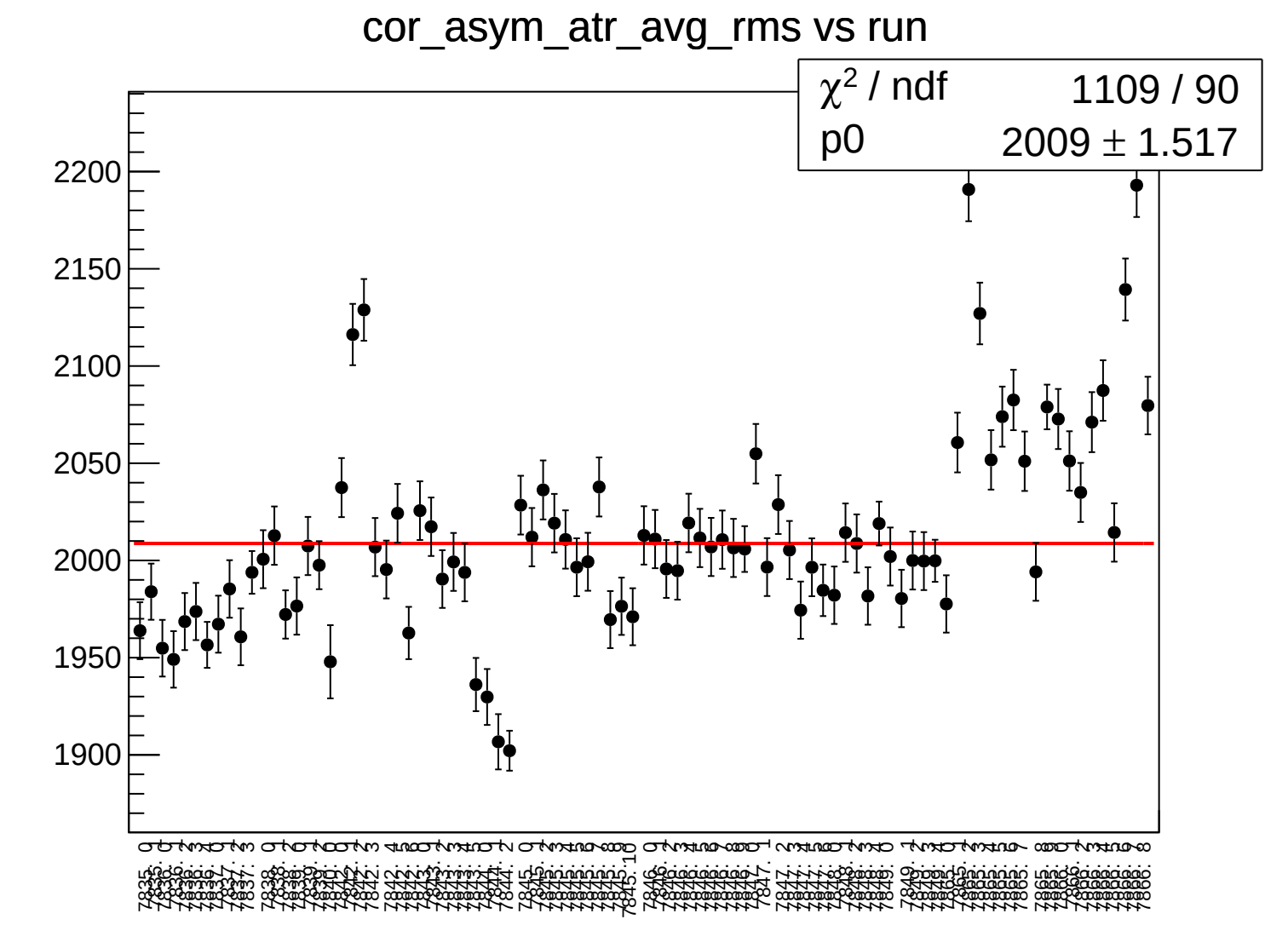

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.7 / 90
p0 −1.679e+04 ± 9843
pull
Entries 91
Mean −67.84
Std Dev 0

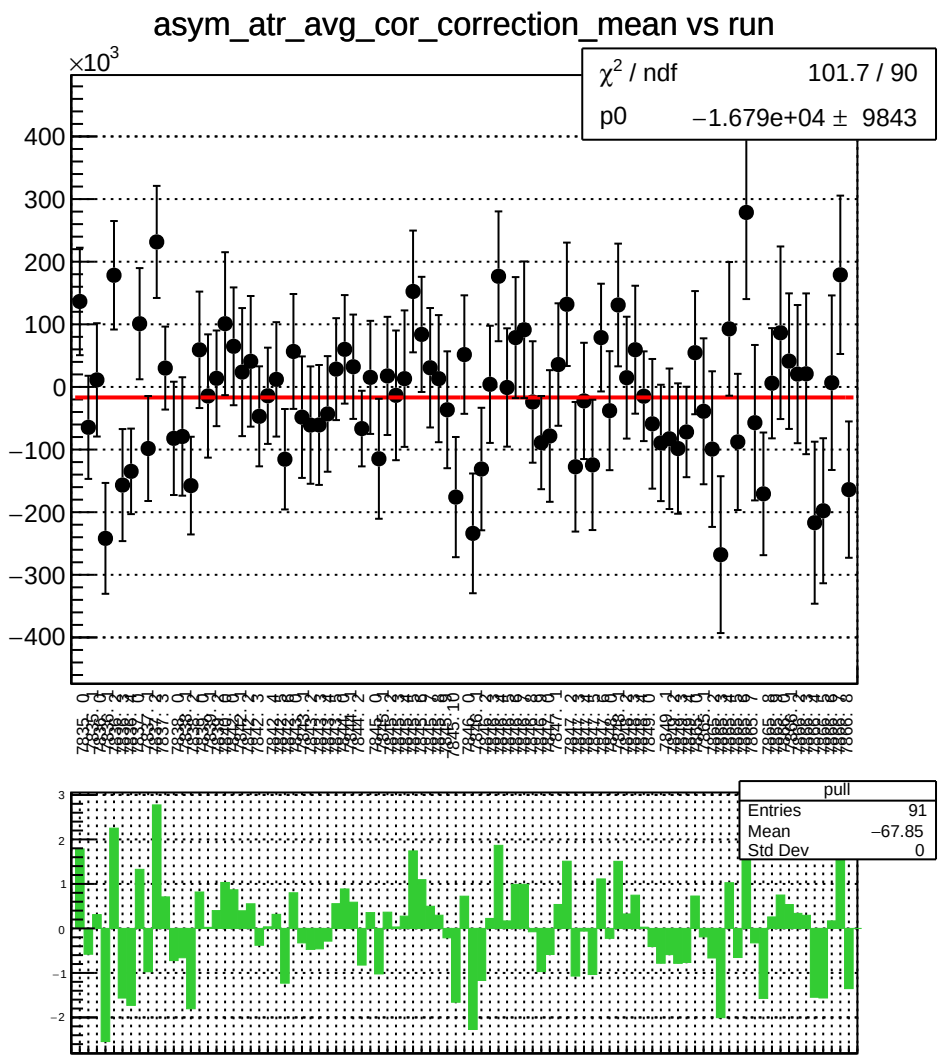

pull1D
Entries 91
Mean 0.01677
Std Dev 1.057

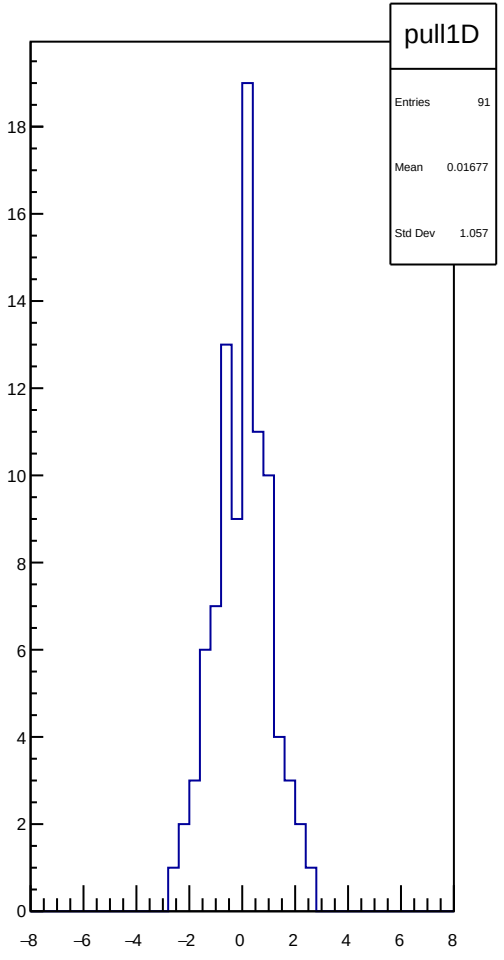

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 2.381e+04 / 90
p0 9158 ± 6.96
13000
12000
11000
10000
9000
8000
7000

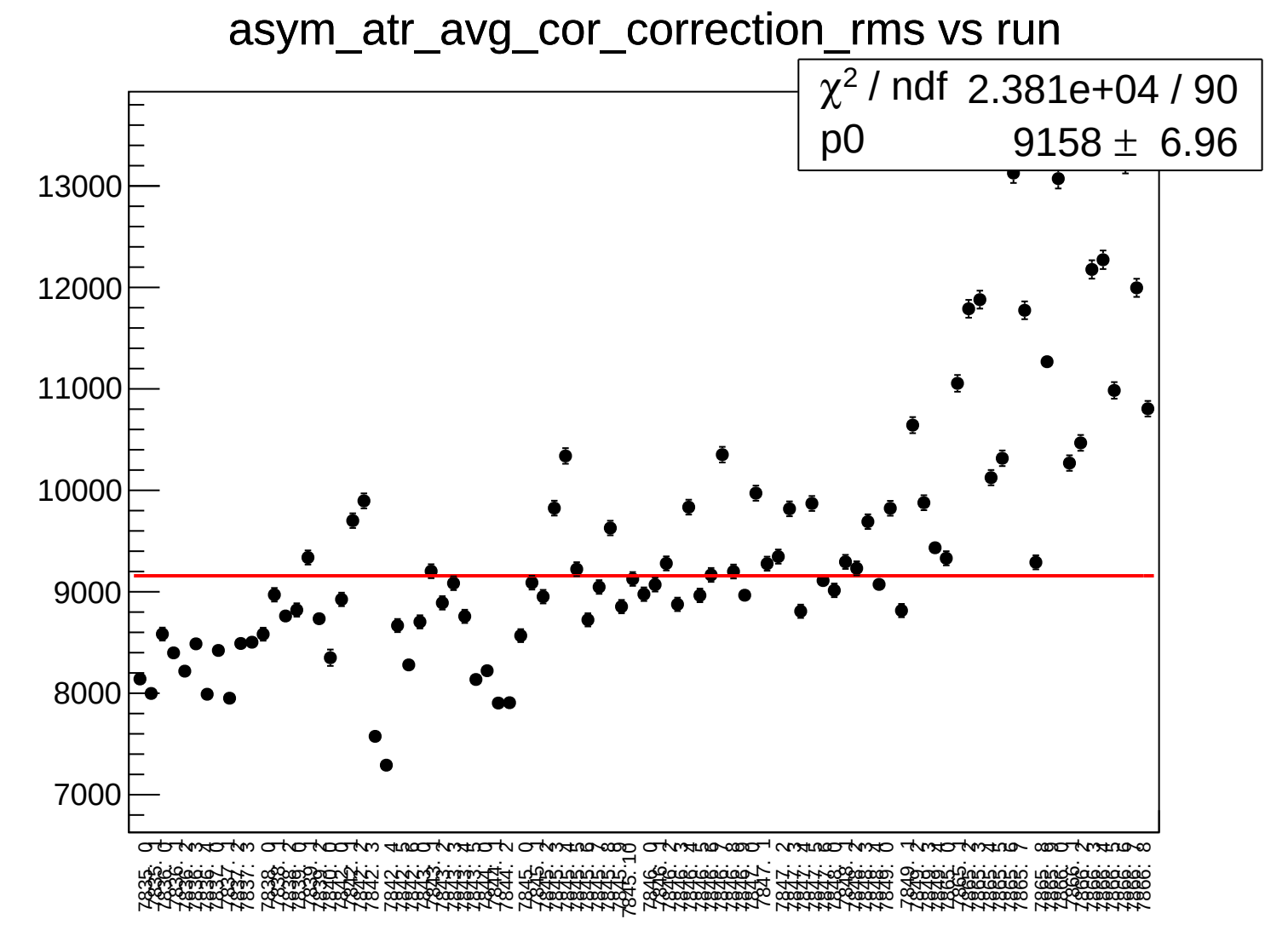

cor_asym_atr_avg_mean vs run
χ² / ndf 91.4 / 90
p0 5326 ± 2145
pull
Entries 91
Mean 427.6
Std Dev 0

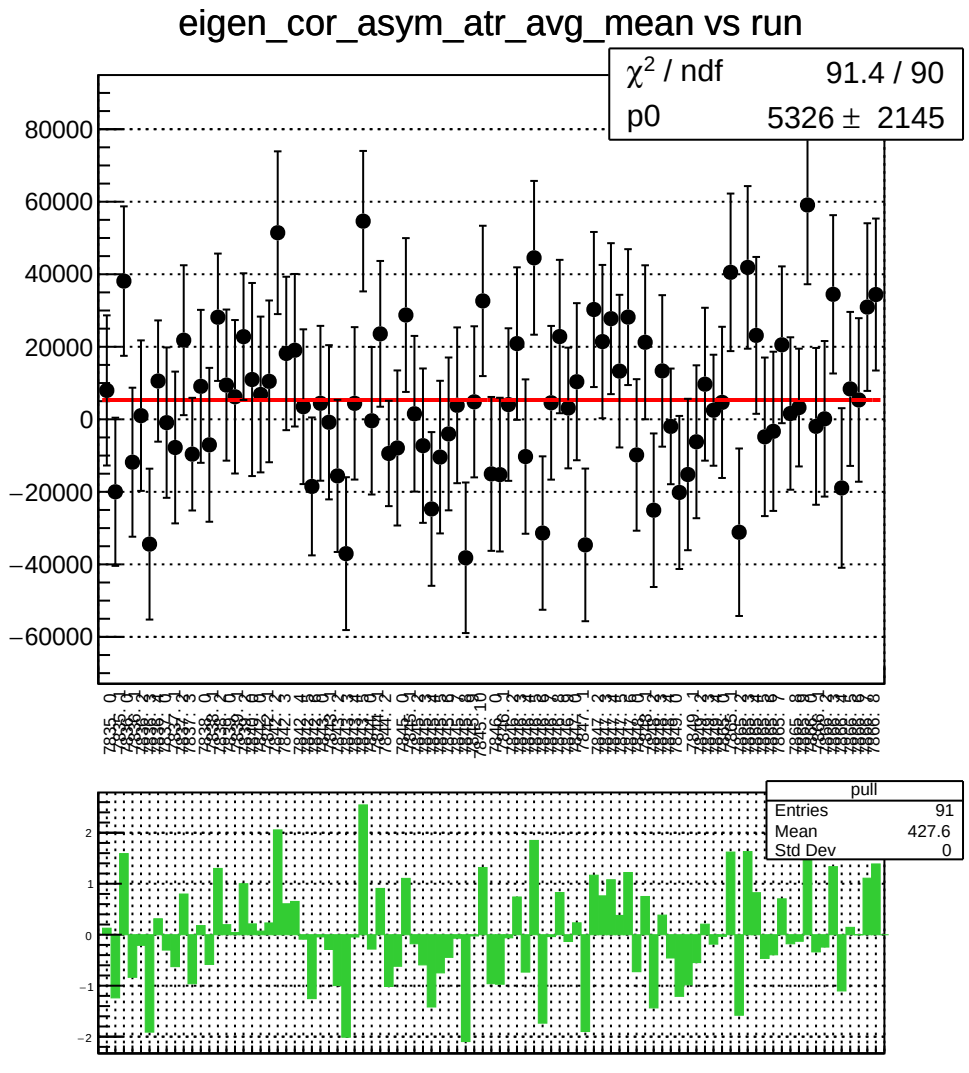

pull1D
Entries 91
Mean 0.007371
Std Dev 1.002

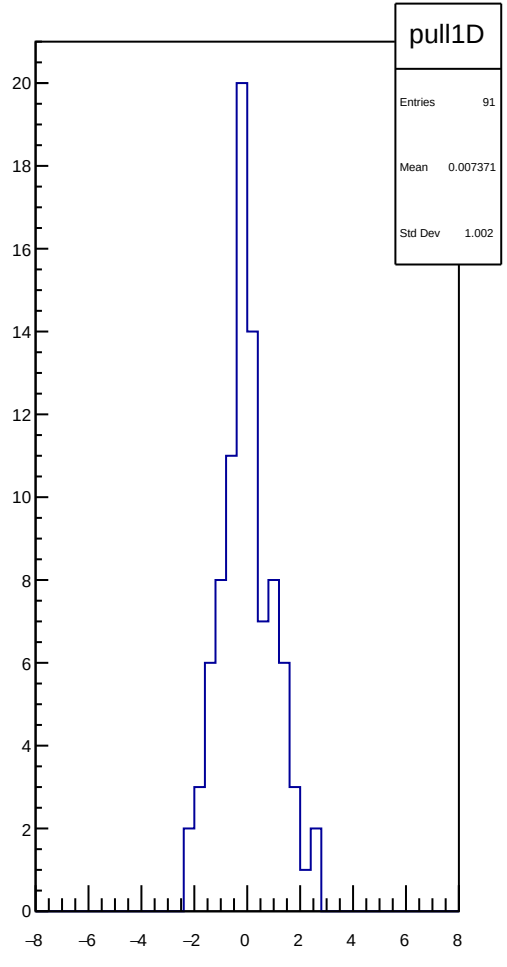

cor_asym_atr_avg_rms vs run
χ² / ndf 1109 / 90
p0 2009 ± 1.517
2200
2150
2100
2050
2000
1950
1900

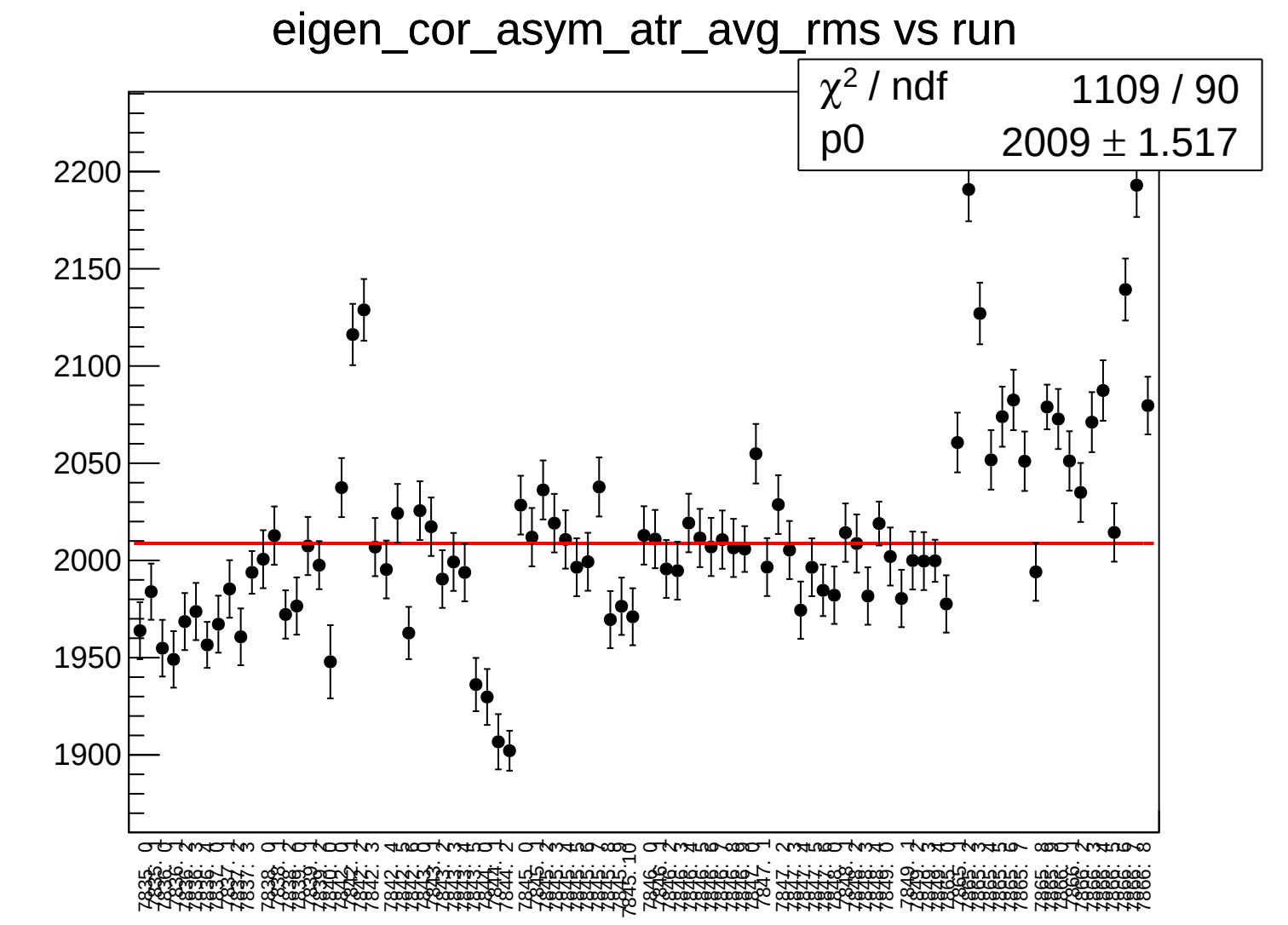

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.7 / 90
p0 −1.679e+04 ± 9843
pull
Entries 91
Mean −67.85
Std Dev 0

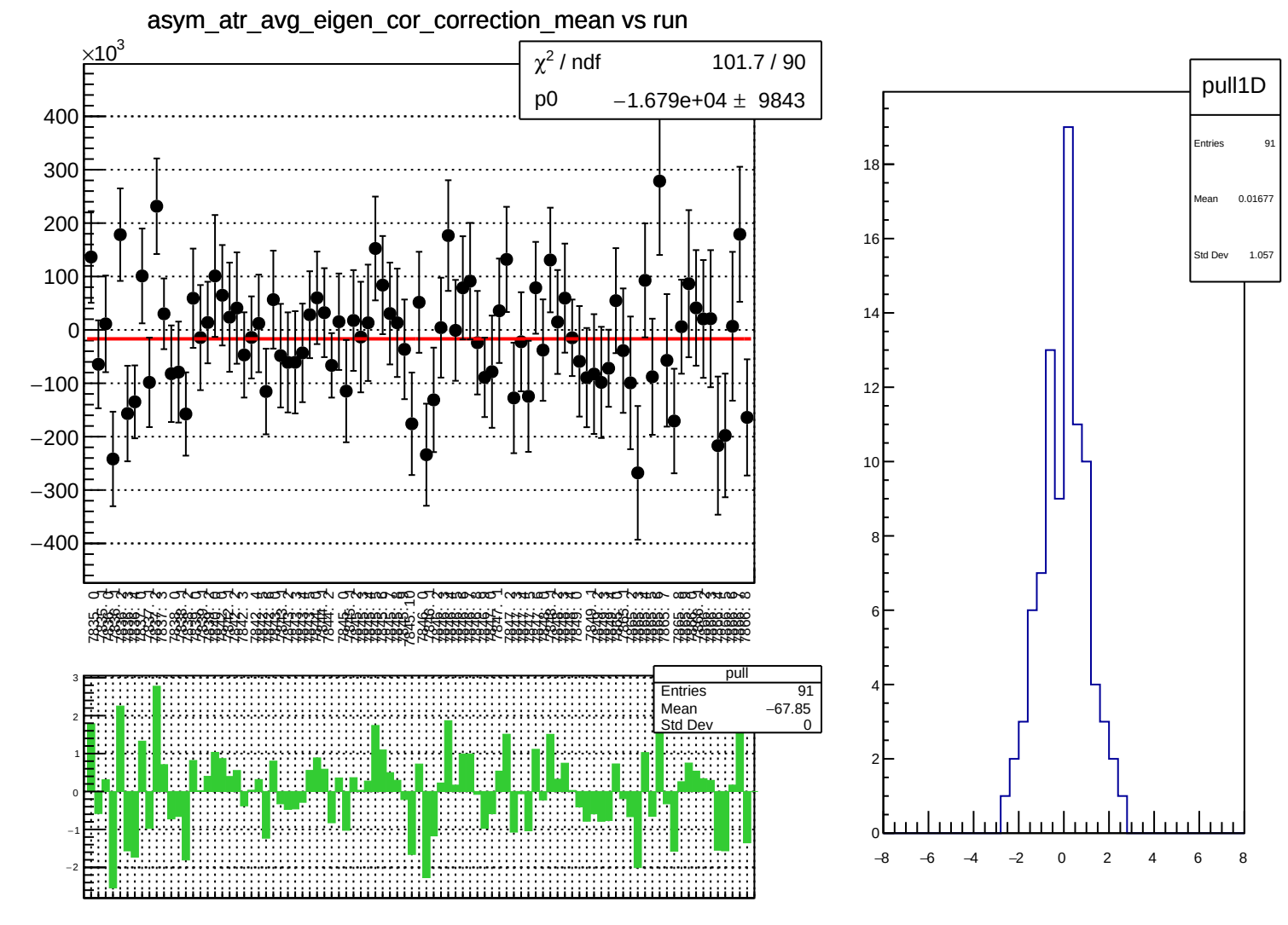

pull1D
Entries 91
Mean 0.01677
Std Dev 1.057

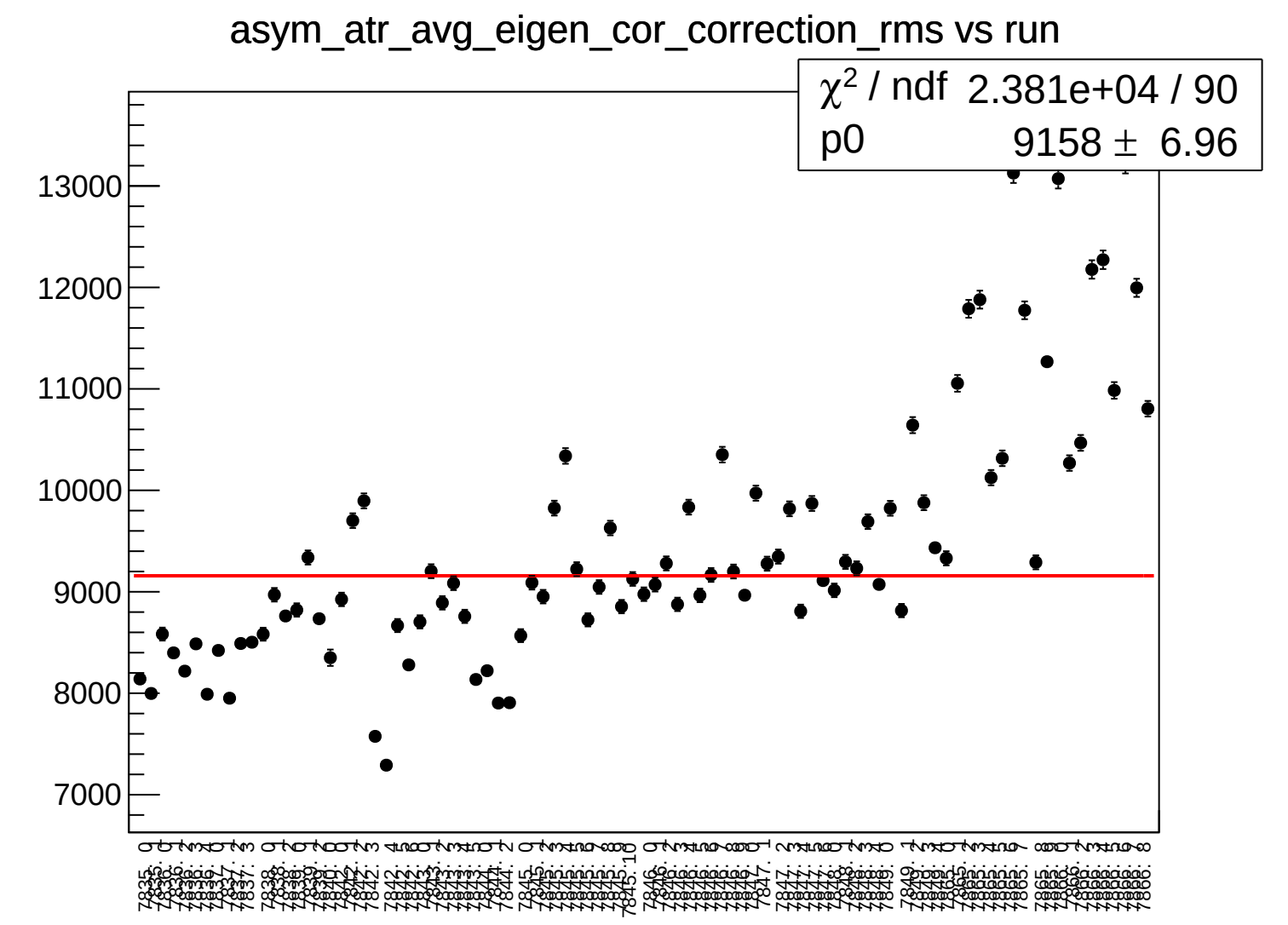

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 2.381e+04 / 90
p0 9158 ± 6.96
13000
12000
11000
10000
9000
8000
7000

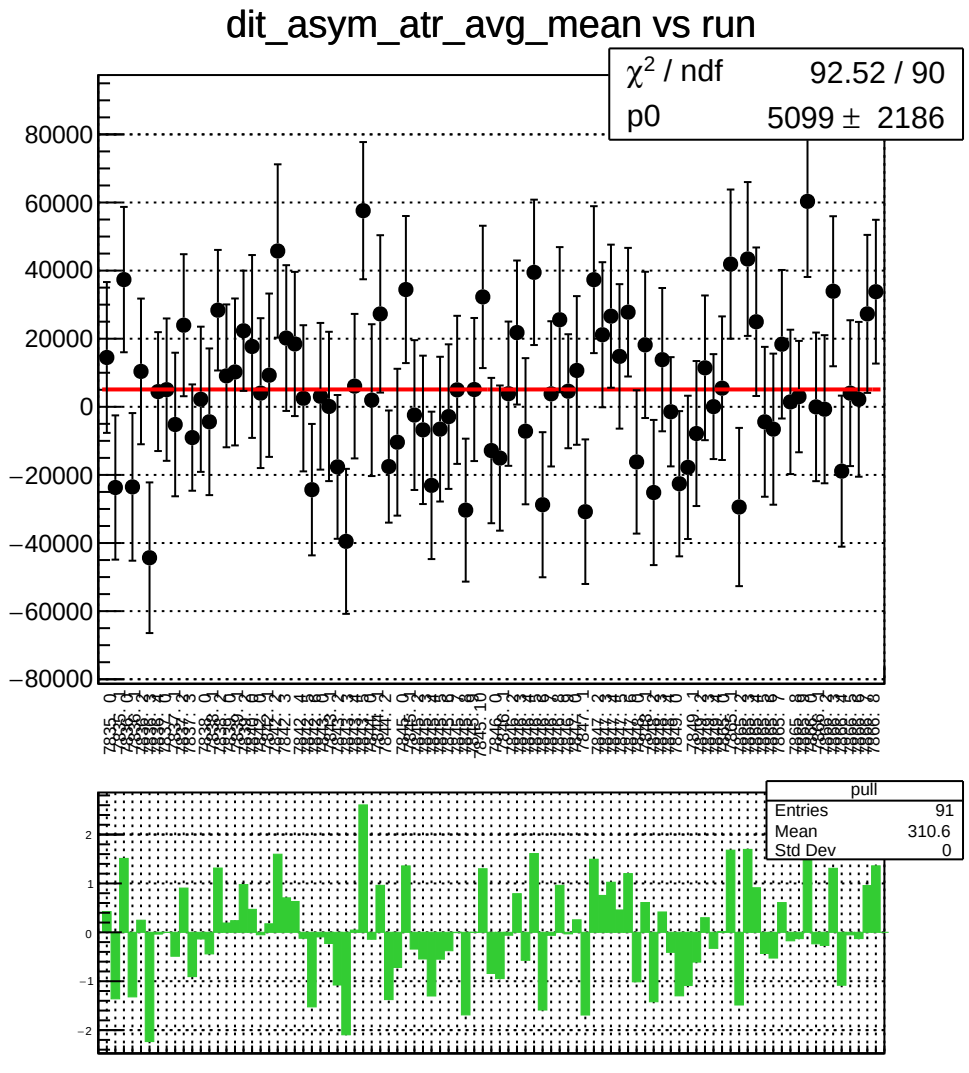

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 91.4 / 90
p0 5326 ± 2145
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 427.6
Std Dev 0
2
1
0
−1
−2

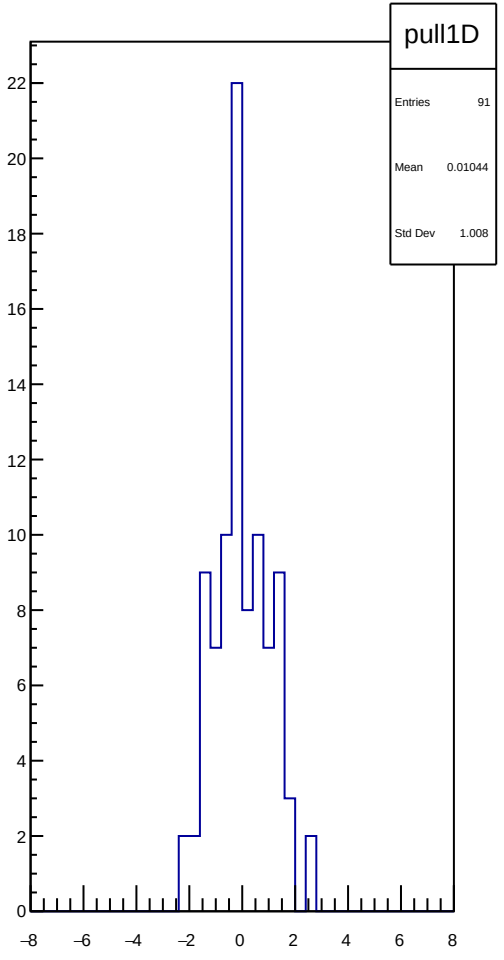

pull1D
Entries 91
Mean 0.007371
Std Dev 1.002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

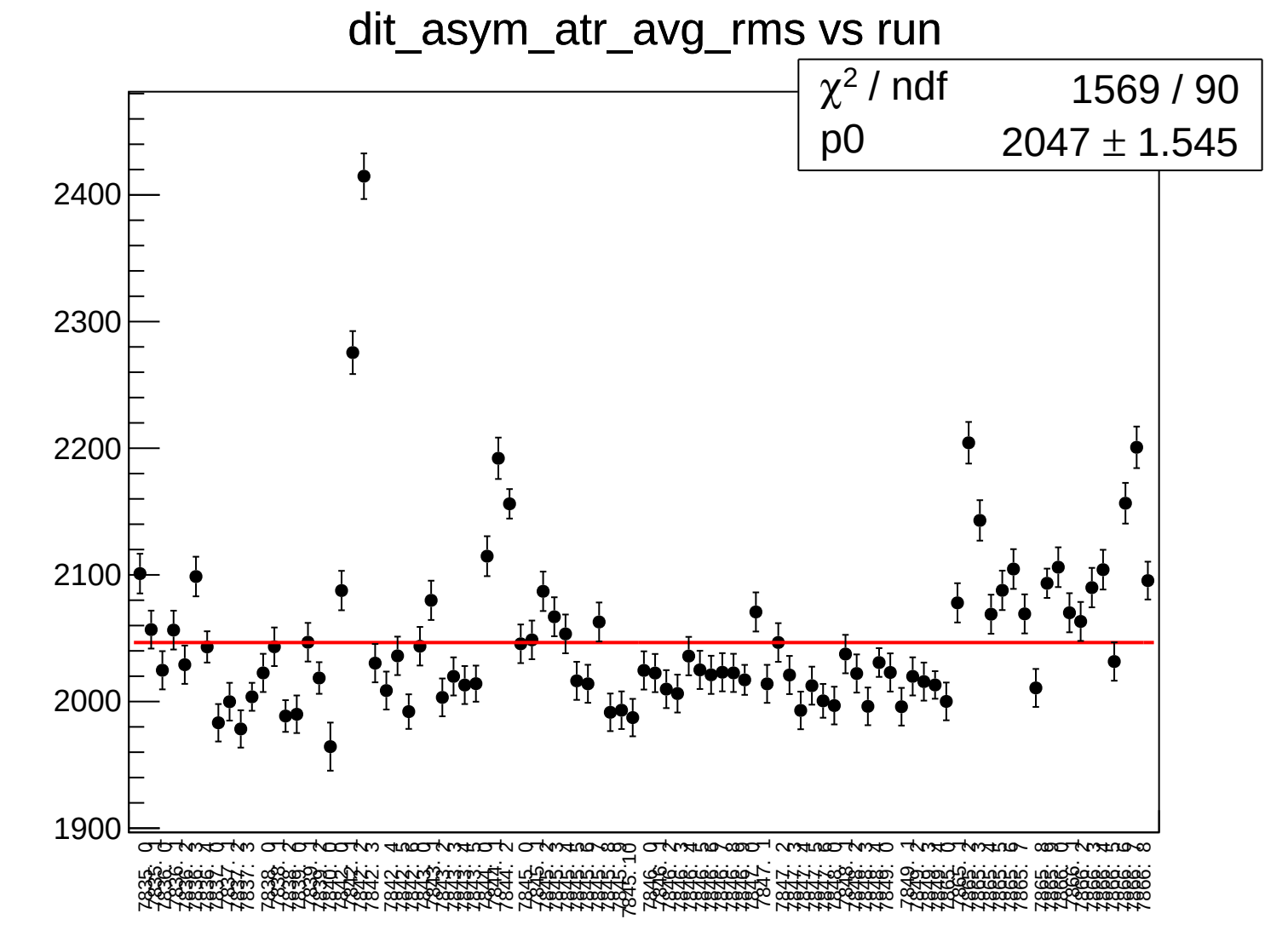

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 1109 / 90
p0 2009 ± 1.517
2200
2150
2100
2050
2000
1950
1900

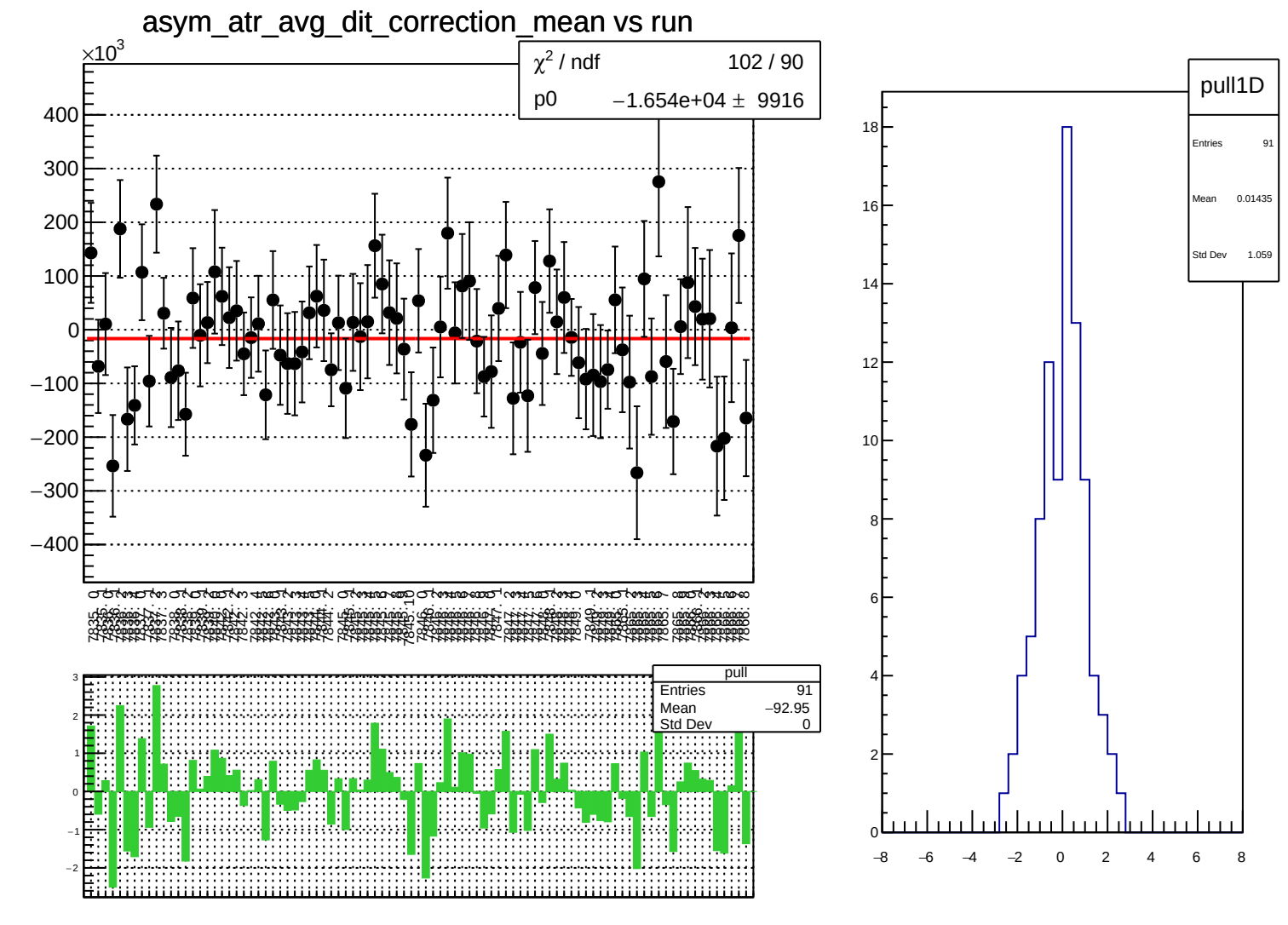

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.7 / 90
p0 −1.679e+04 ± 9843
pull
Entries 91
Mean −67.85
Std Dev 0
pull1D
Entries 91
Mean 0.01677
Std Dev 1.057

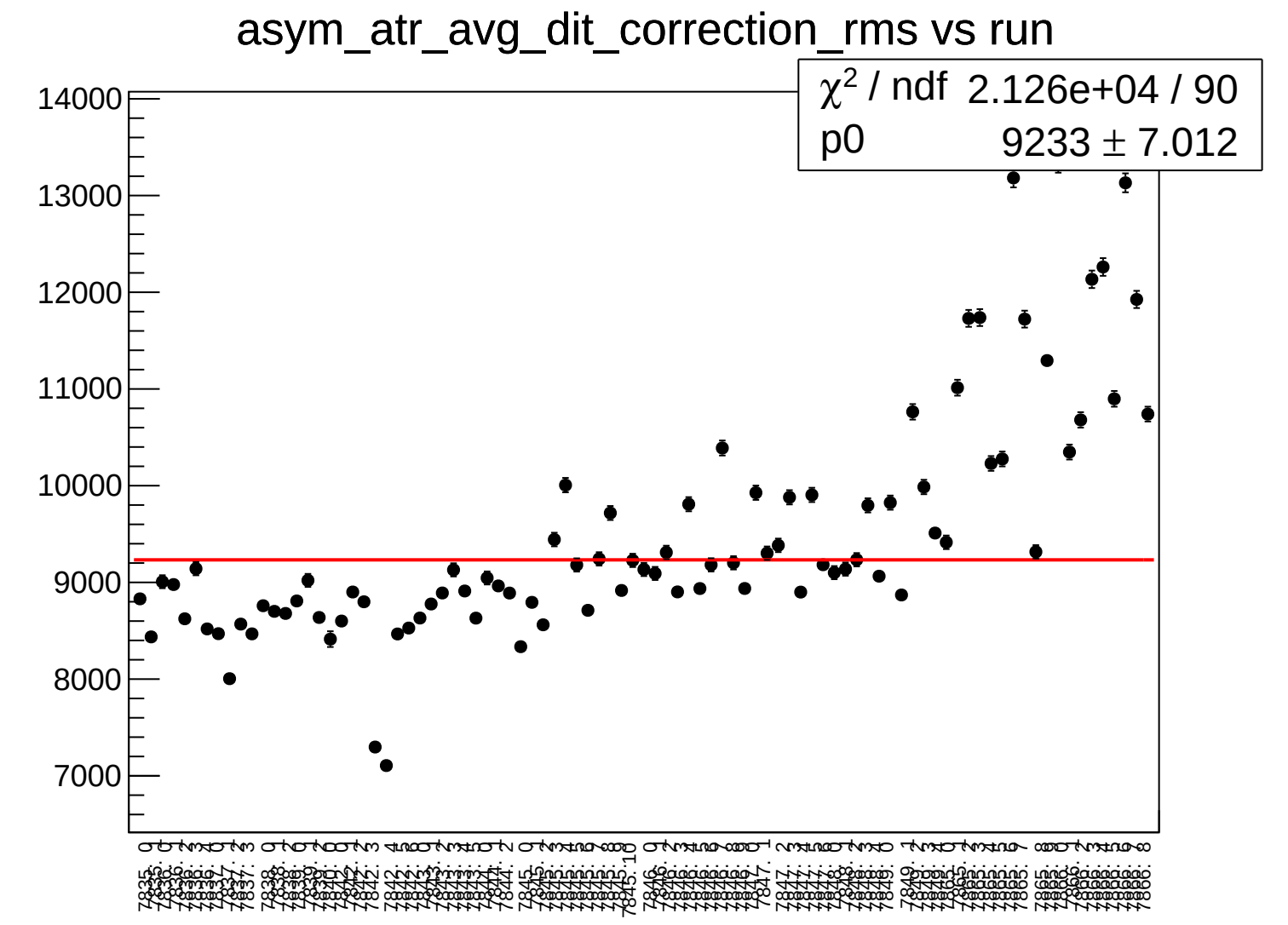

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.381e+04 / 90
p0 9158 ± 6.96
13000
12000
11000
10000
9000
8000
7000

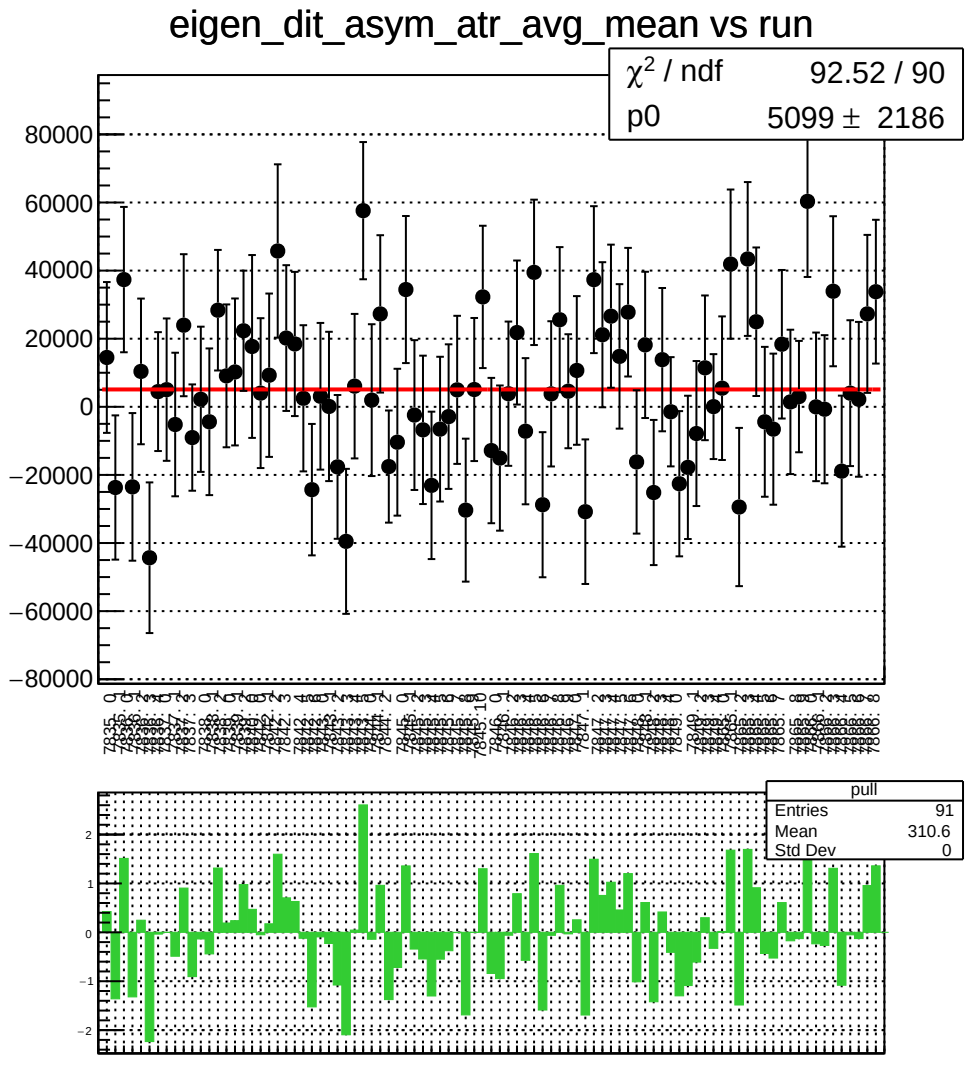

dit_asym_atr_avg_mean vs run
χ² / ndf 92.52 / 90
p0 5099 ± 2186
pull
Entries 91
Mean 310.6
Std Dev 0

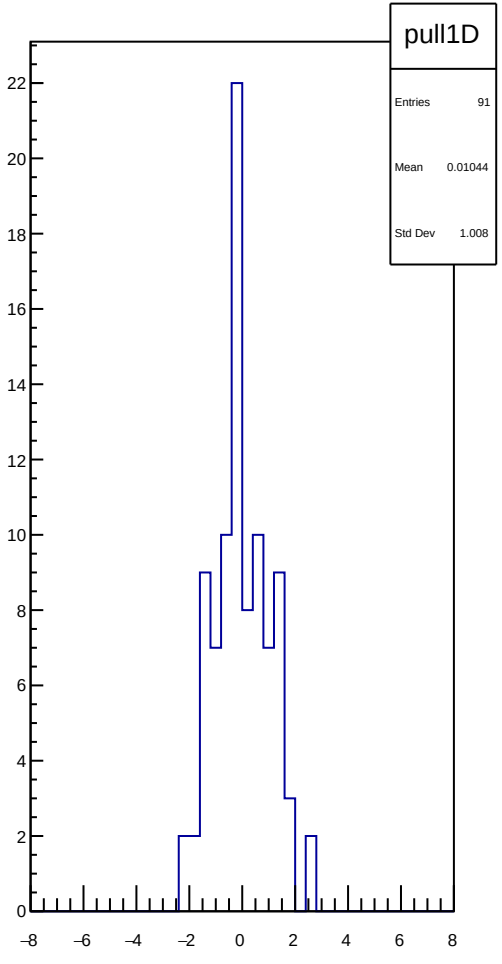

pull1D
Entries 91
Mean 0.01044
Std Dev 1.008

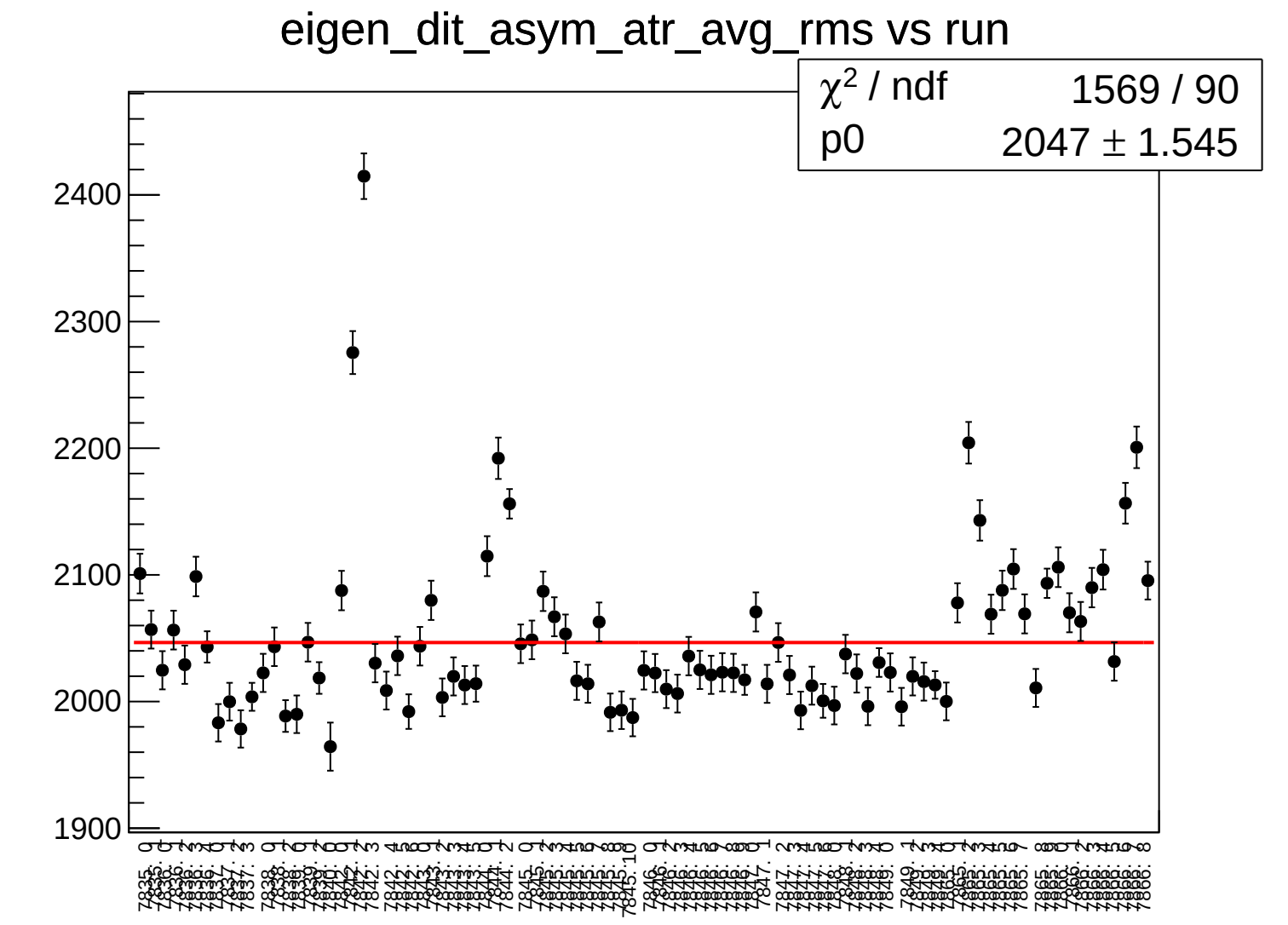

dit_asym_atr_avg_rms vs run
χ² / ndf 1569 / 90
p0 2047 ± 1.545
2400
2300
2200
2100
2000
1900

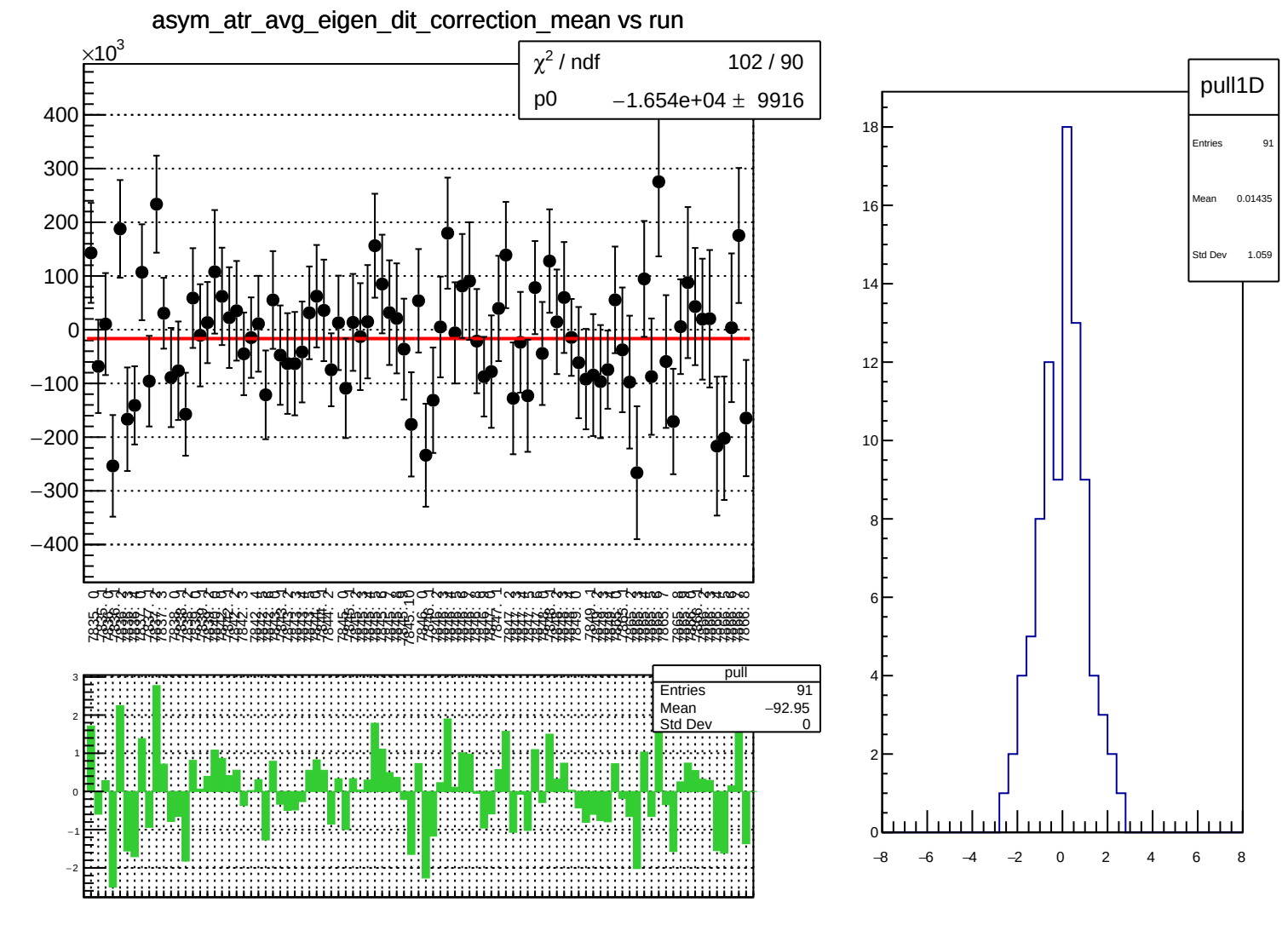

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 102 / 90
p0 −1.654e+04 ± 9916
pull
Entries 91
Mean −92.95
Std Dev 0
pull1D
Entries 91
Mean 0.01435
Std Dev 1.059

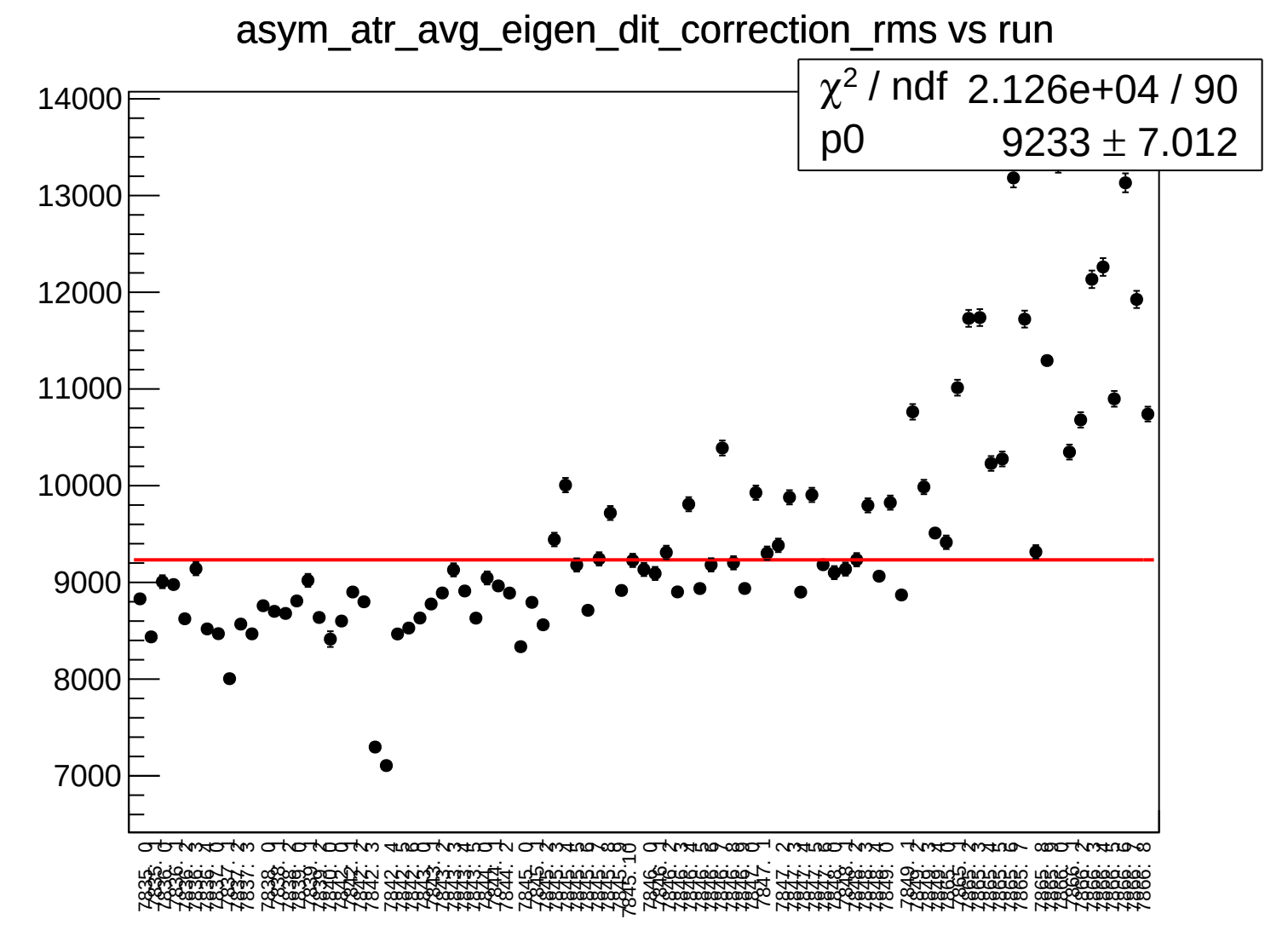

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2.126e+04 / 90
p0 9233 ± 7.012
14000
13000
12000
11000
10000
9000
8000
7000

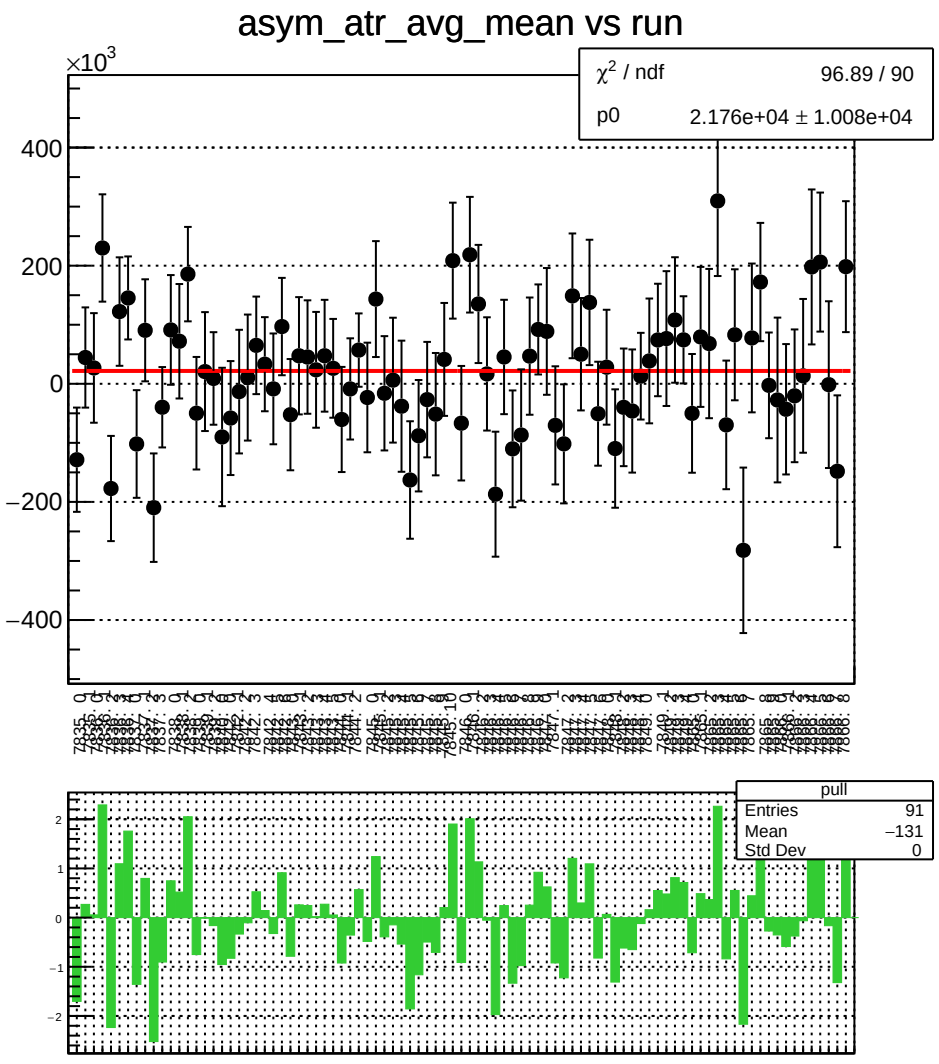

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 92.52 / 90
p0 5099 ± 2186
pull
Entries 91
Mean 310.6
Std Dev 0

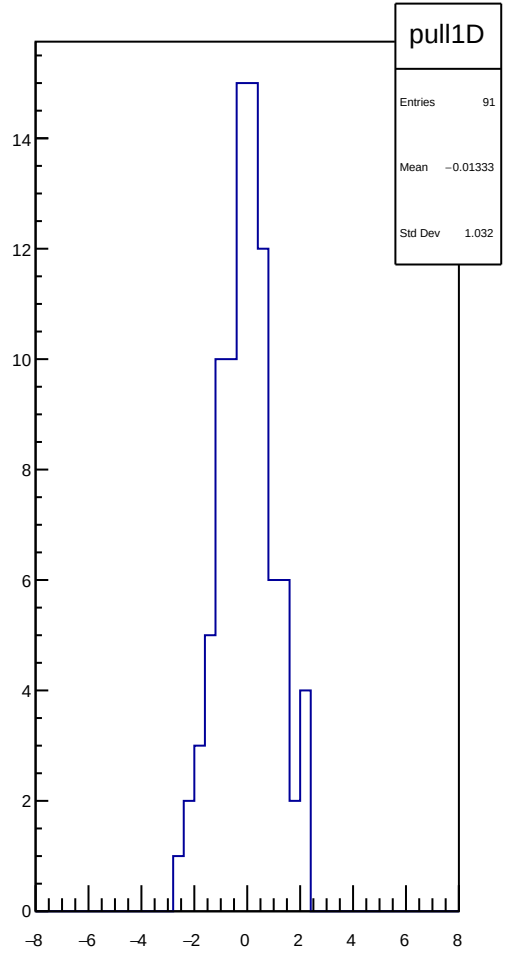

pull1D
Entries 91
Mean 0.01044
Std Dev 1.008

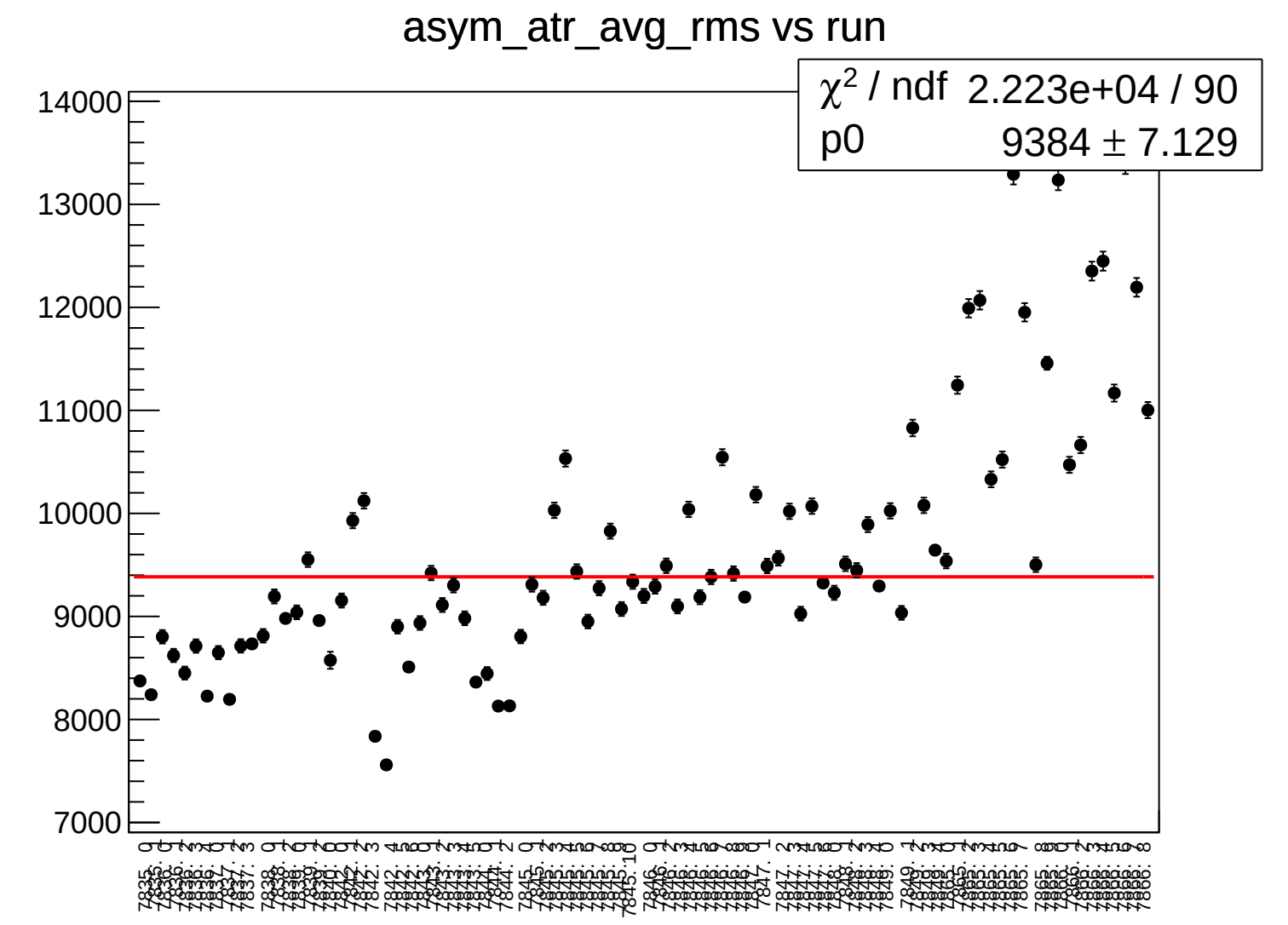

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 1569 / 90
p0 2047 ± 1.545
2400
2300
2200
2100
2000
1900

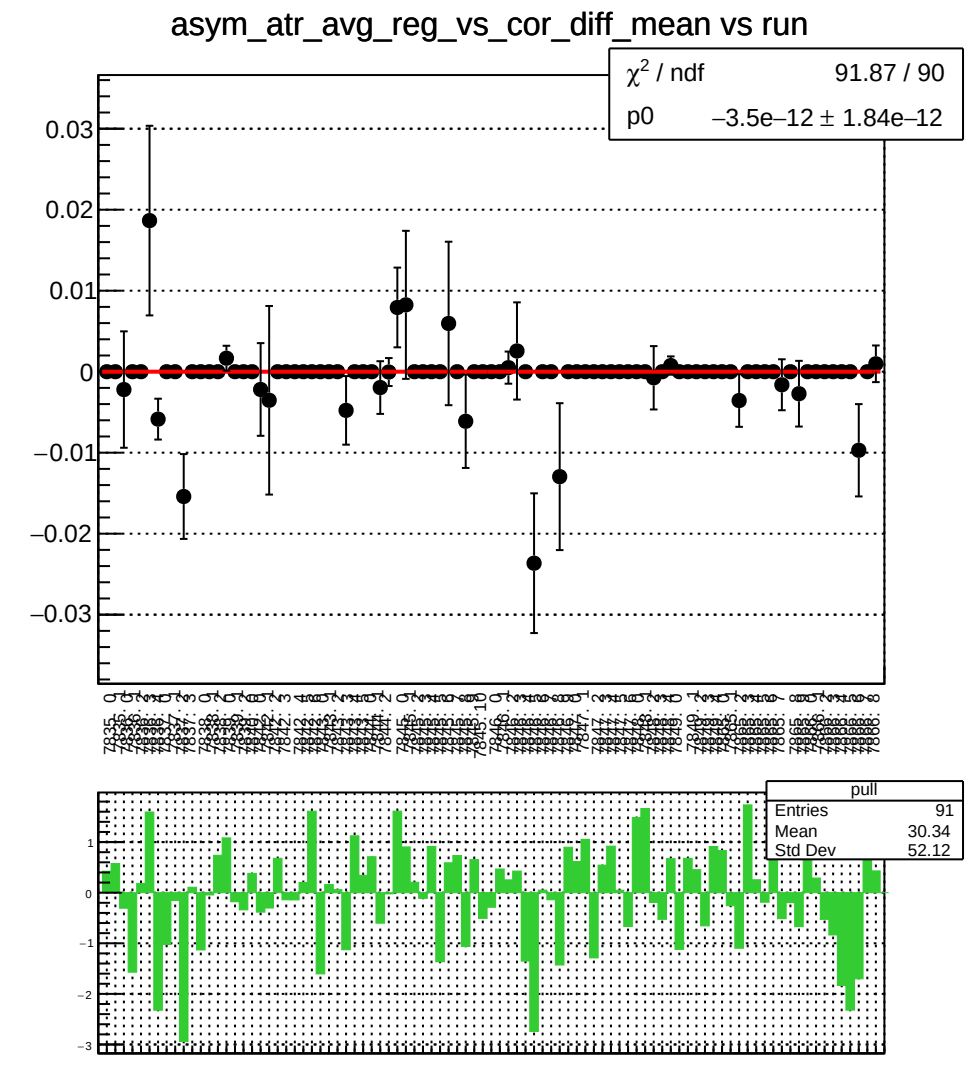

asym_atr_avg_eigen_dit_correction_mean vs run
χ² / ndf 102 / 90
p0 −1.654e+04 ± 9916
×10³
pull
Entries 91
Mean −92.95
Std Dev 0
pull1D
Entries 91
Mean 0.01435
Std Dev 1.059

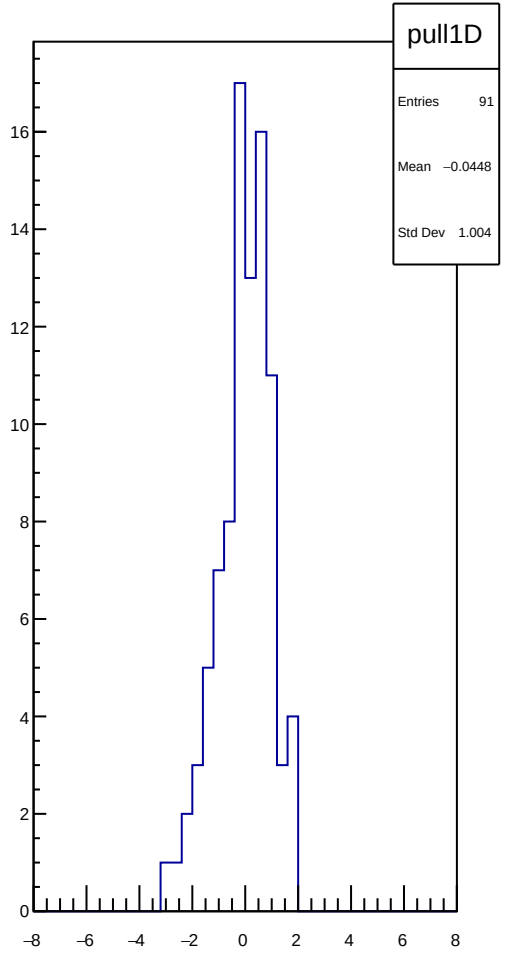

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.126e+04 / 90
p0 9233 ± 7.012
14000
13000
12000
11000
10000
9000
8000
7000

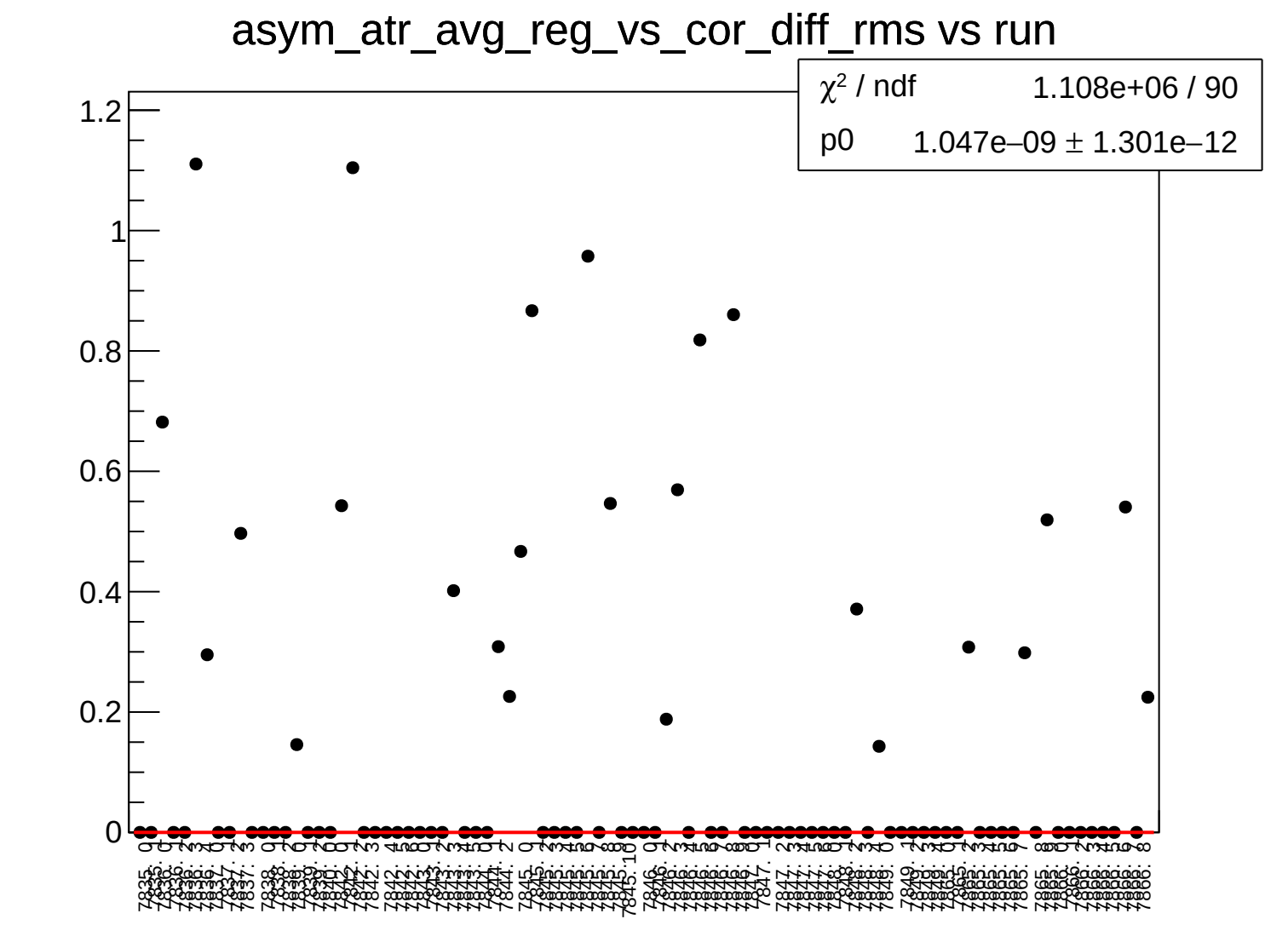

asym_atr_avg_mean vs run
×10^3
χ² / ndf 96.89 / 90
p0 2.176e+04 ± 1.008e+04
400
200
0
−200
−400
pull
Entries 91
Mean −131
Std Dev 0
2
1
0
−1
−2

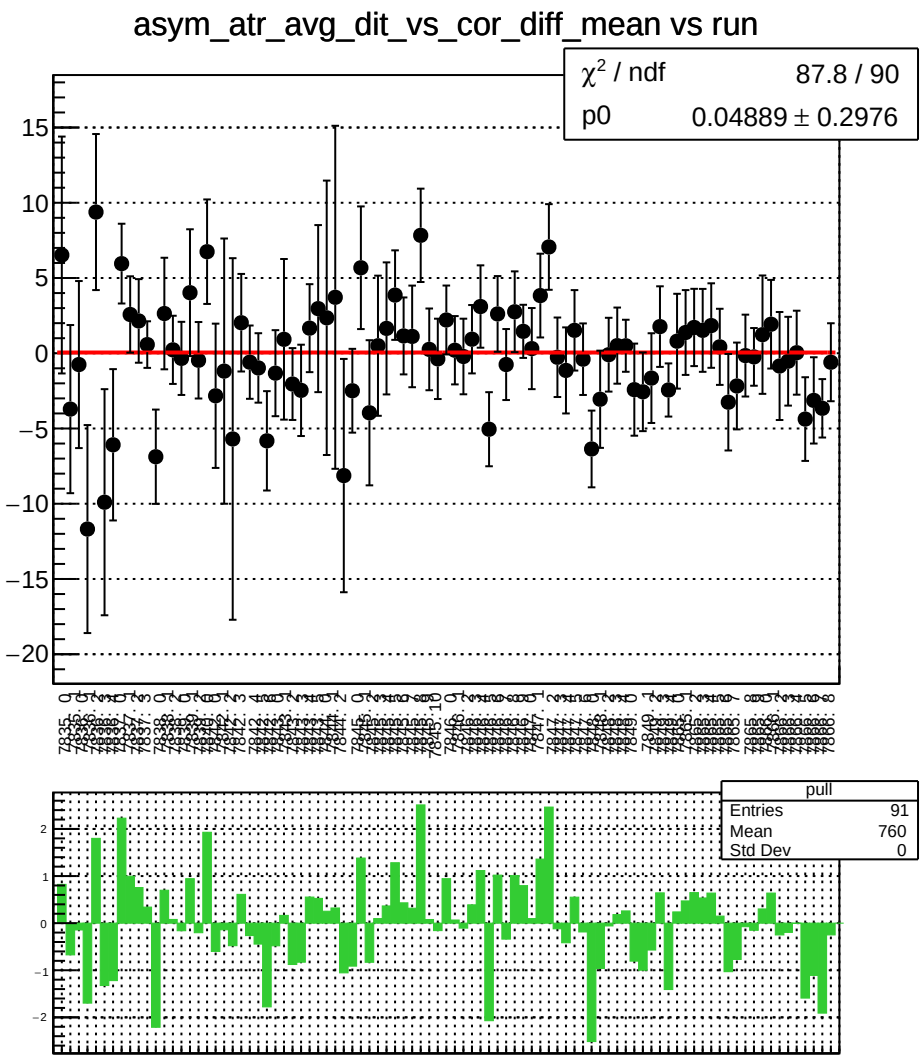

pull1D
Entries 91
Mean −0.01333
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

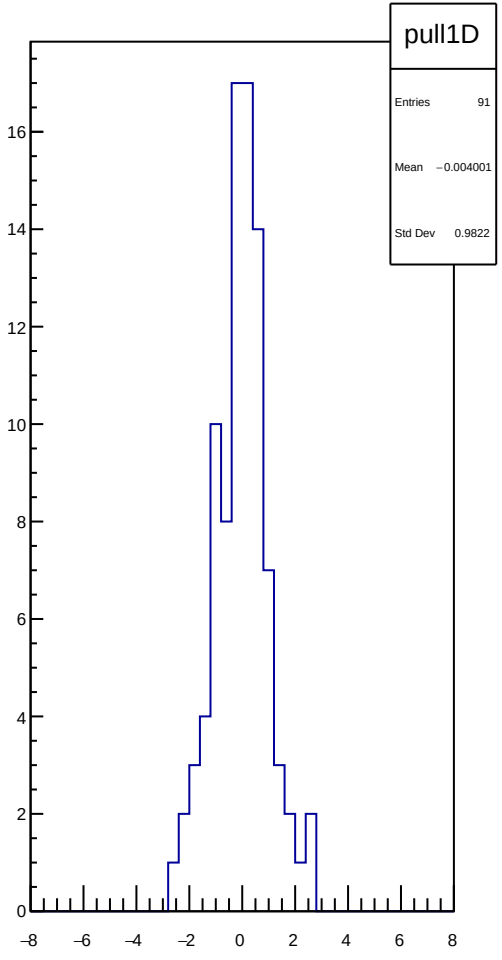

asym_atr_avg_rms vs run
χ^2 / ndf 2.223e+04 / 90
p0 9384 ± 7.129
14000
13000
12000
11000
10000
9000
8000
7000


asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.87 / 90
p0 −3.5e−12 ± 1.84e−12
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 30.34
Std Dev 52.12
1
0
−1
−2
−3

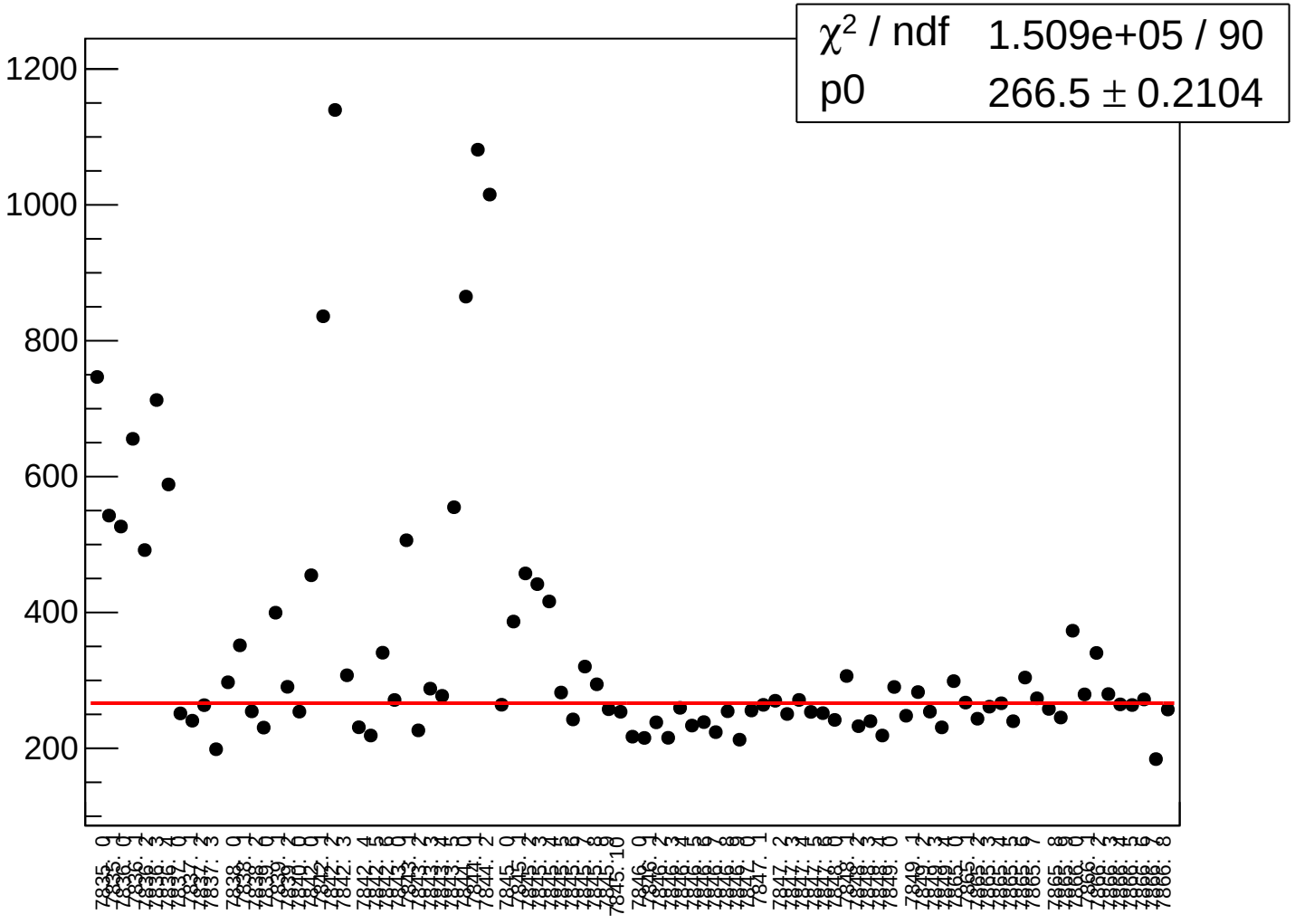

pull1D
Entries 91
Mean −0.0448
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

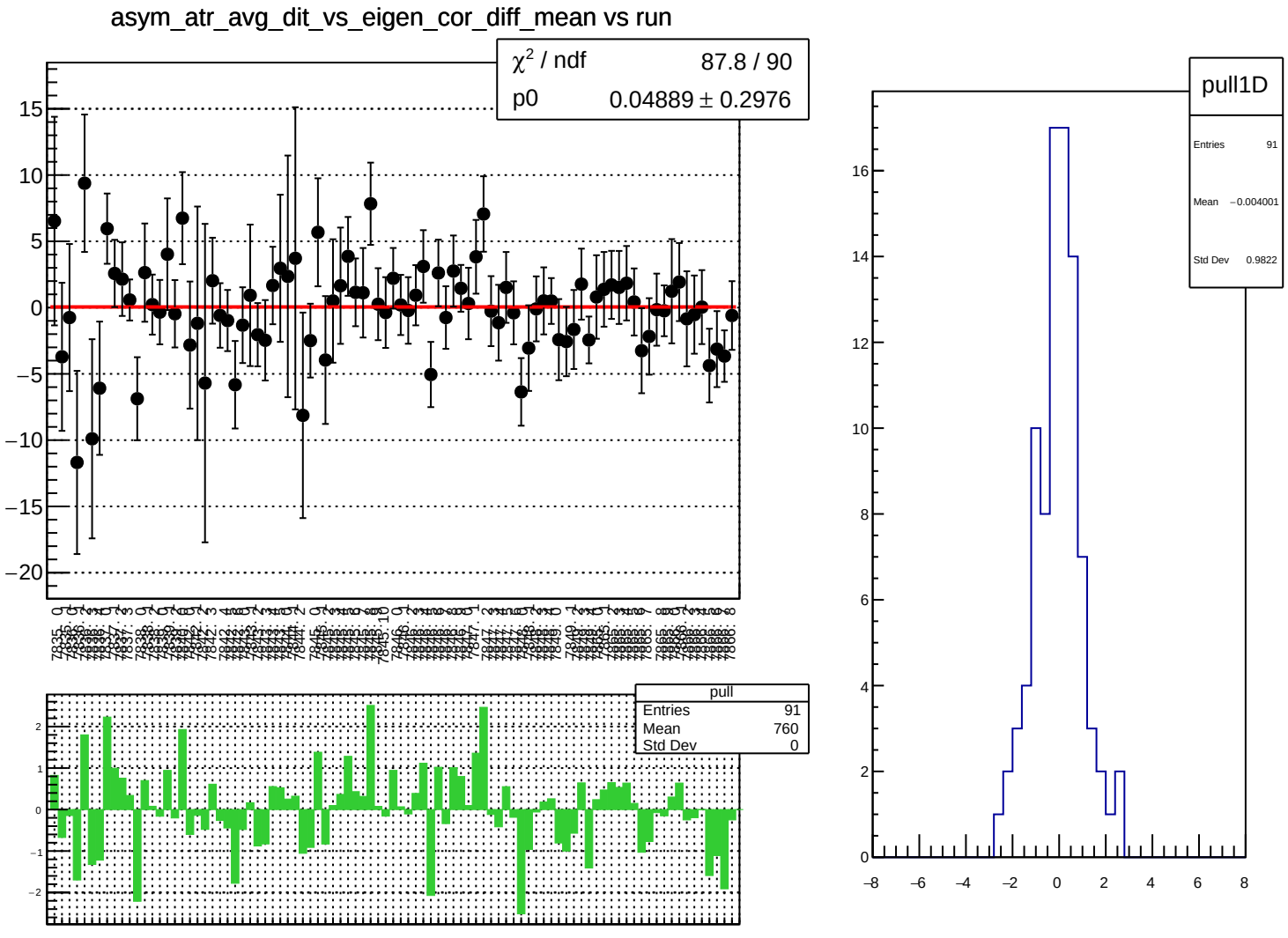

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.108e+06 / 90
p0 1.047e−09 ± 1.301e−12
1.2
1
0.8
0.6
0.4
0.2
0

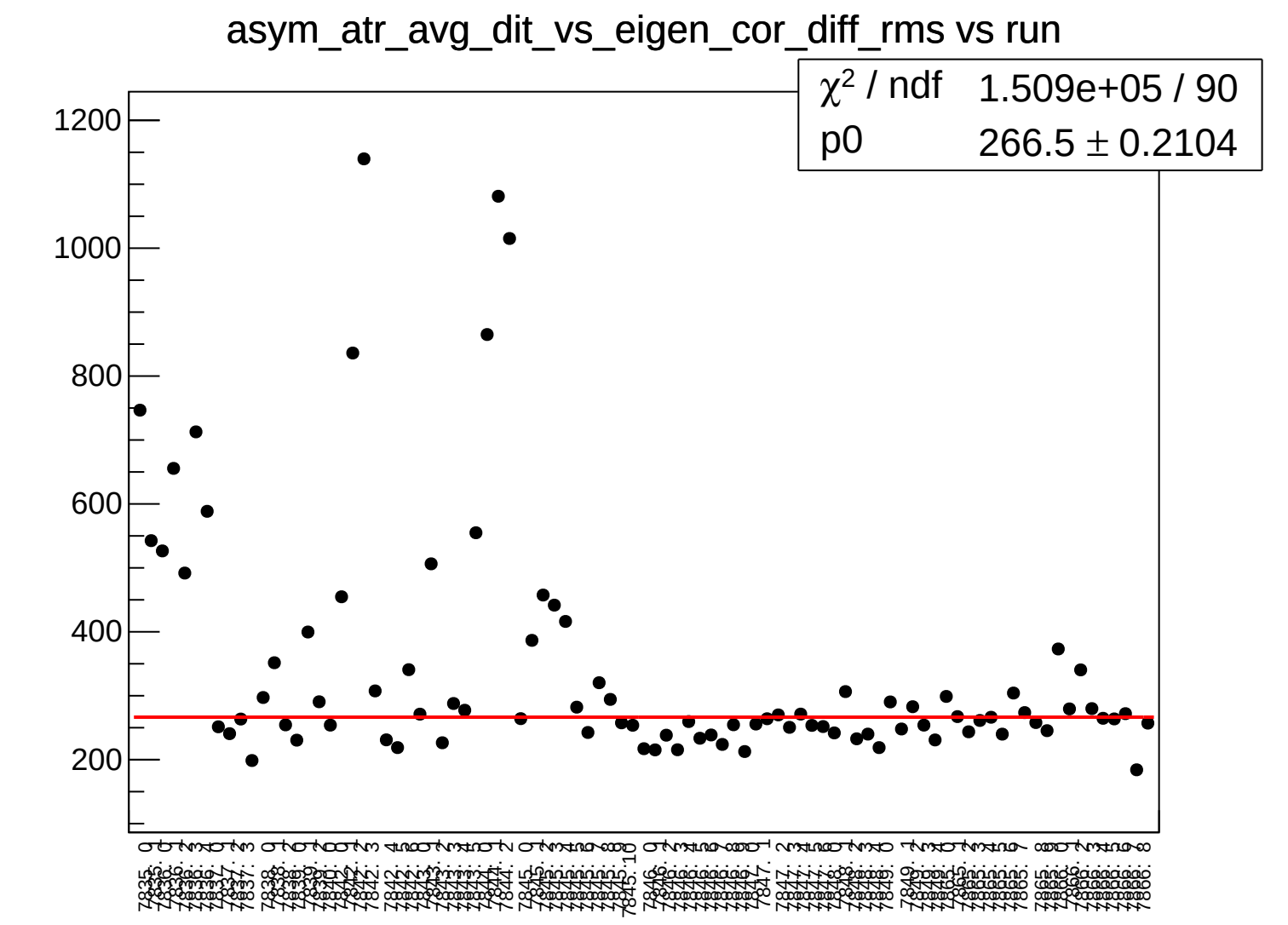

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.8 / 90
p0 0.04889 ± 0.2976
pull
Entries 91
Mean 760
Std Dev 0

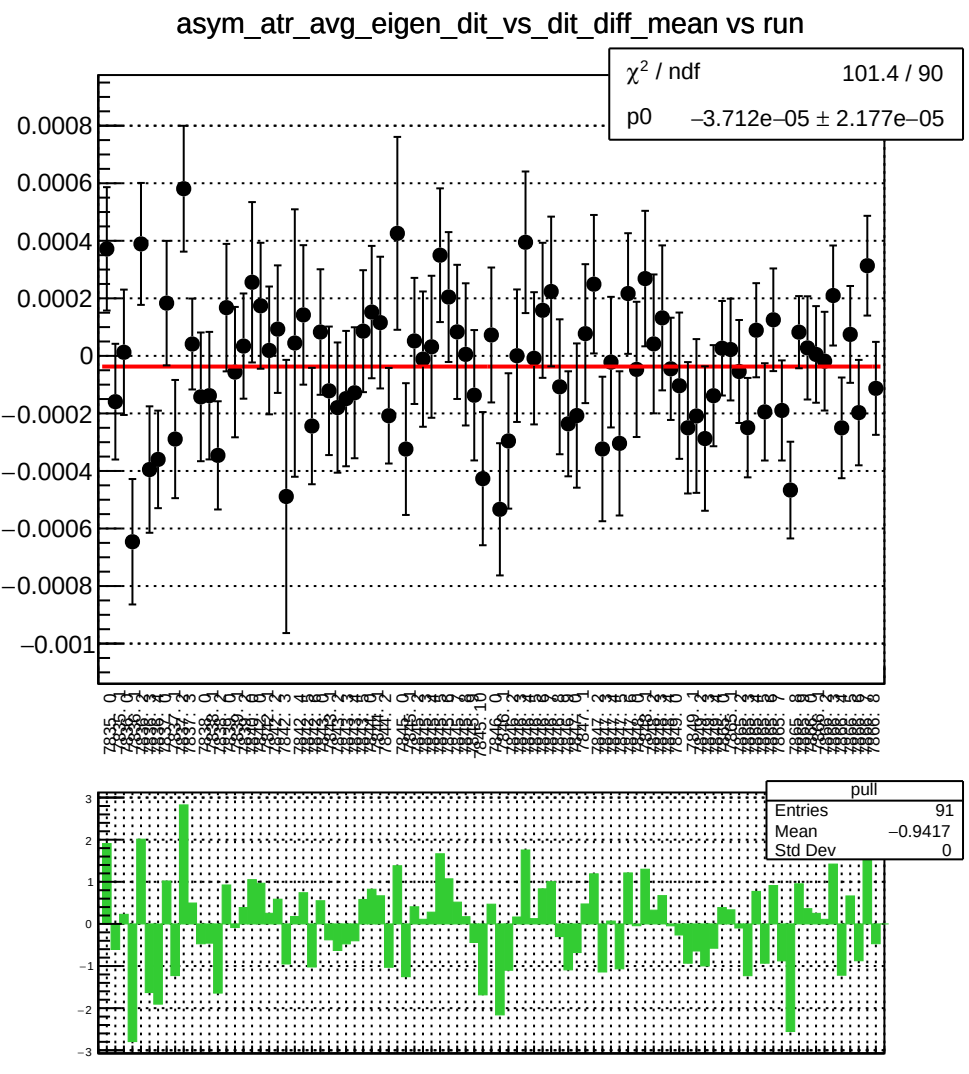

pull1D
Entries 91
Mean −0.004001
Std Dev 0.9822

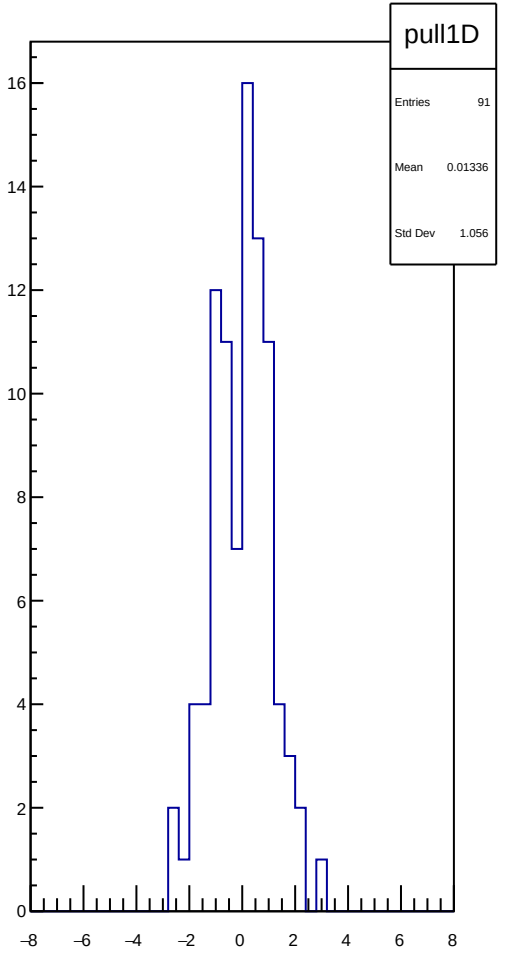
asym_atr_avg_dit_vs_cor_diff_rms vs run

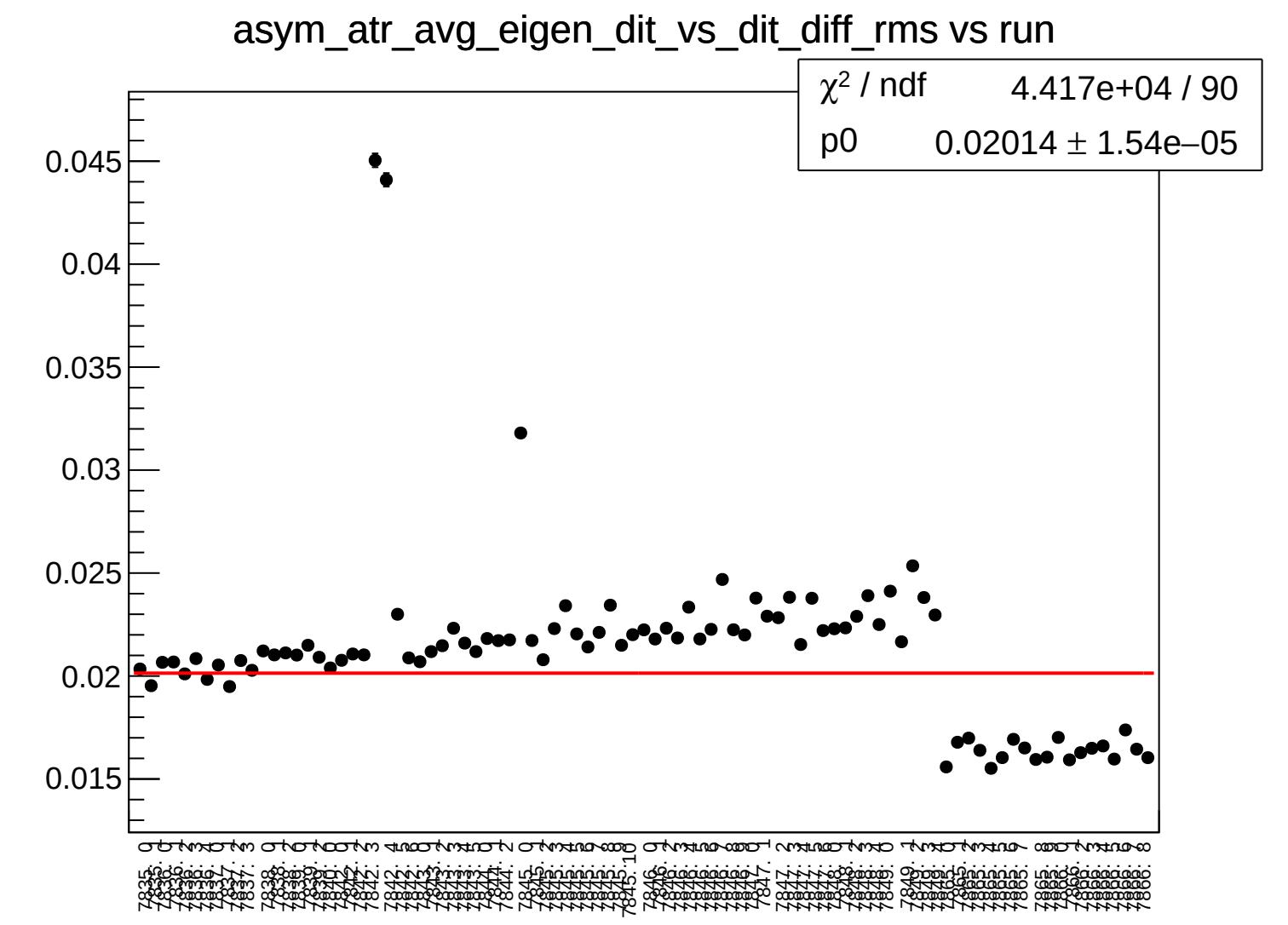


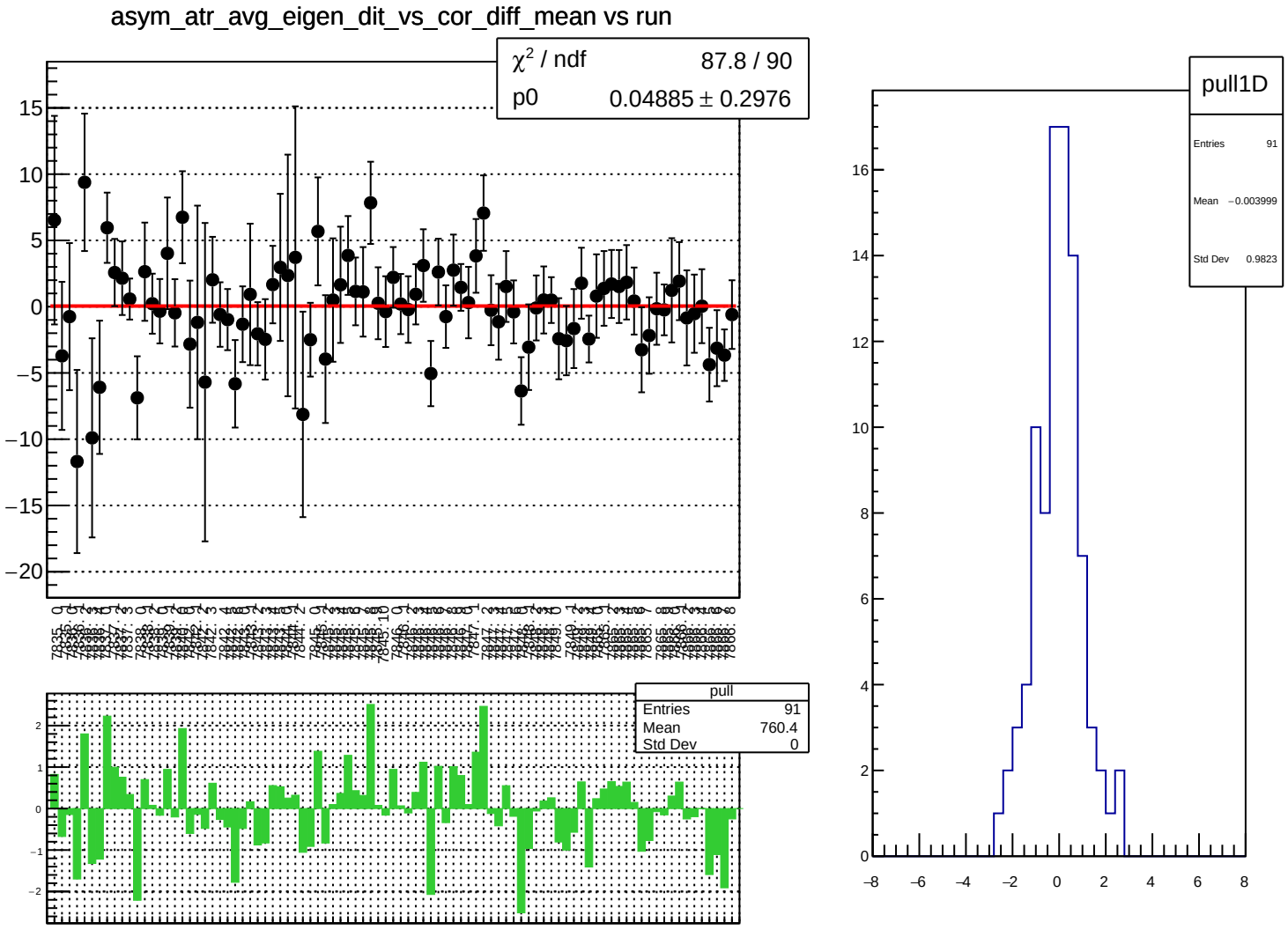

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.8 / 90
p0 0.04889 ± 0.2976
pull
Entries 91
Mean 760
Std Dev 0
pull1D
Entries 91
Mean −0.004001
Std Dev 0.9822

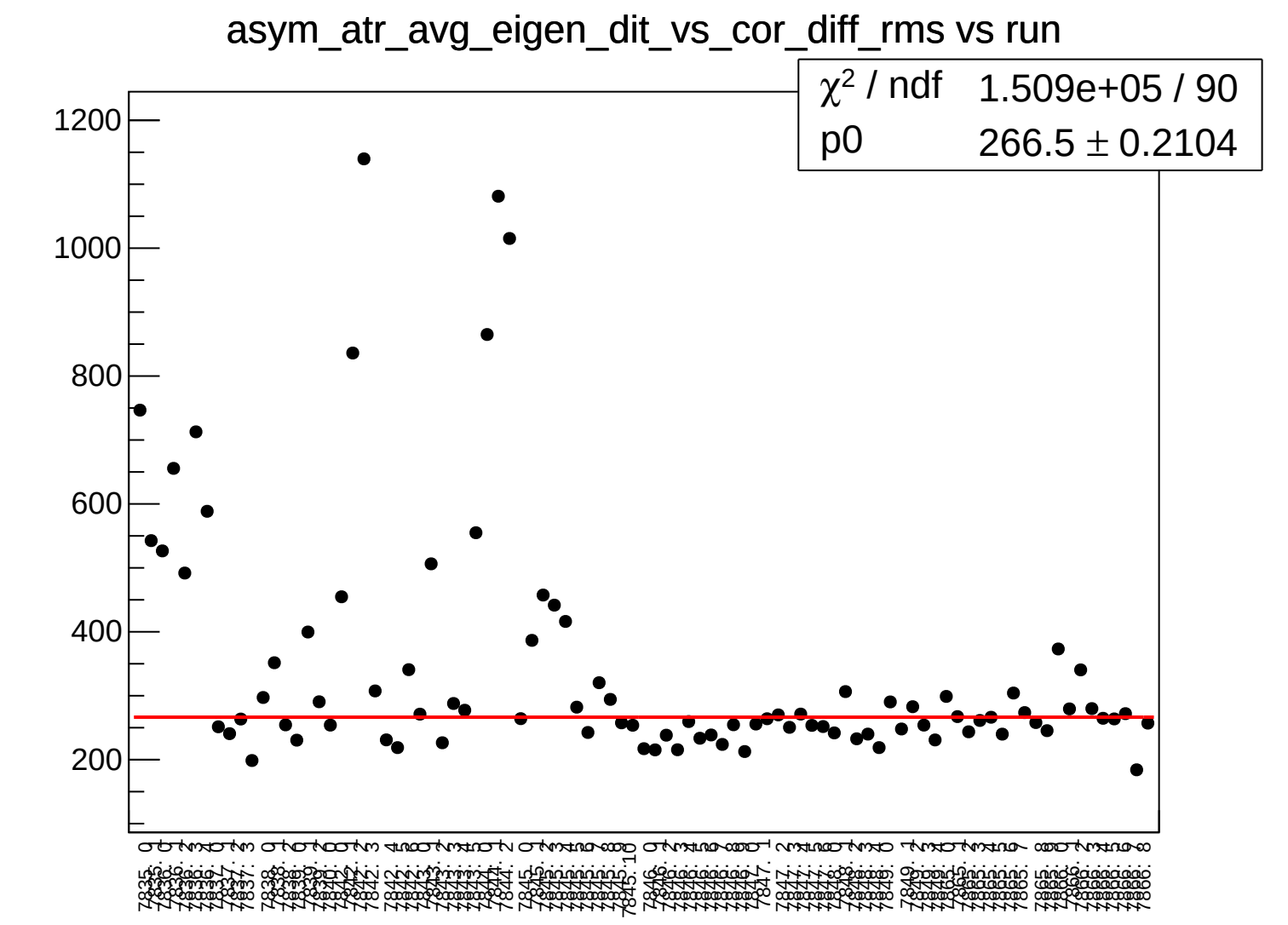

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.509e+05 / 90
p0 266.5 ± 0.2104
1200
1000
800
600
400
200

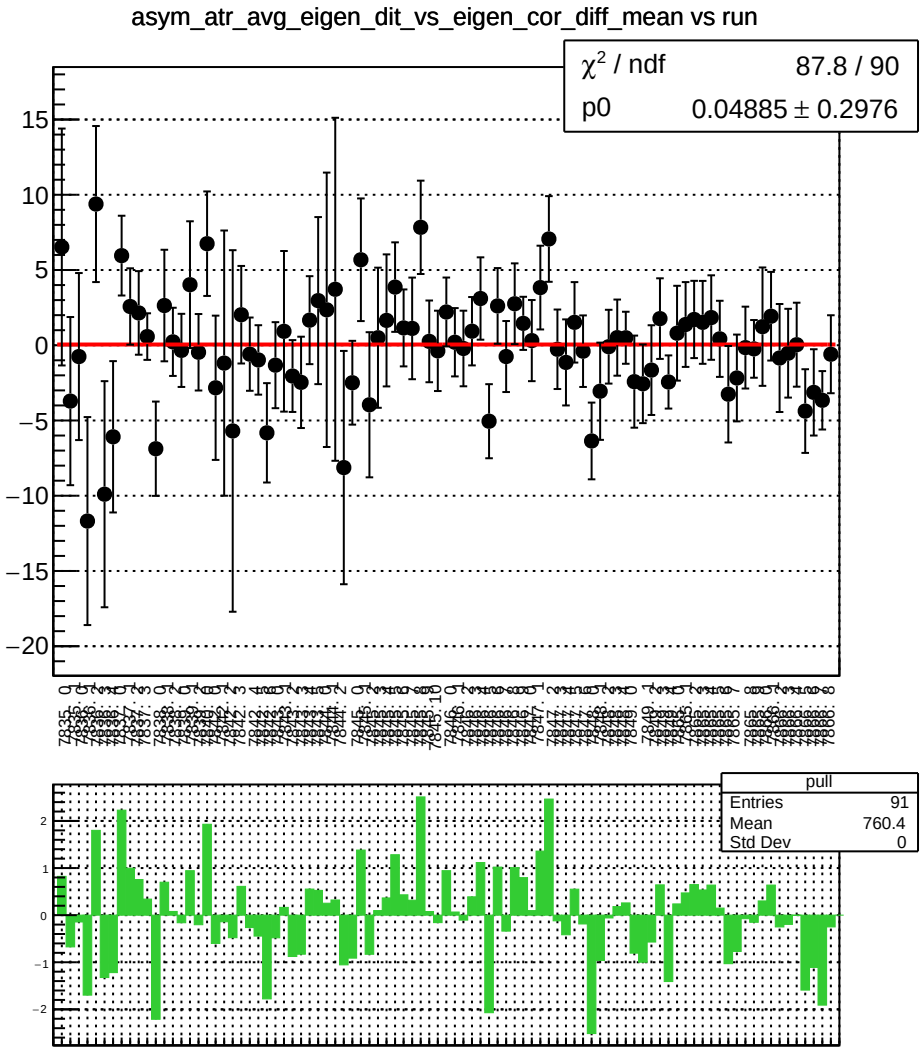

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101.4 / 90
p0 −3.712e−05 ± 2.177e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 91
Mean −0.9417
Std Dev 0
3
2
1
0
−1
−2
−3

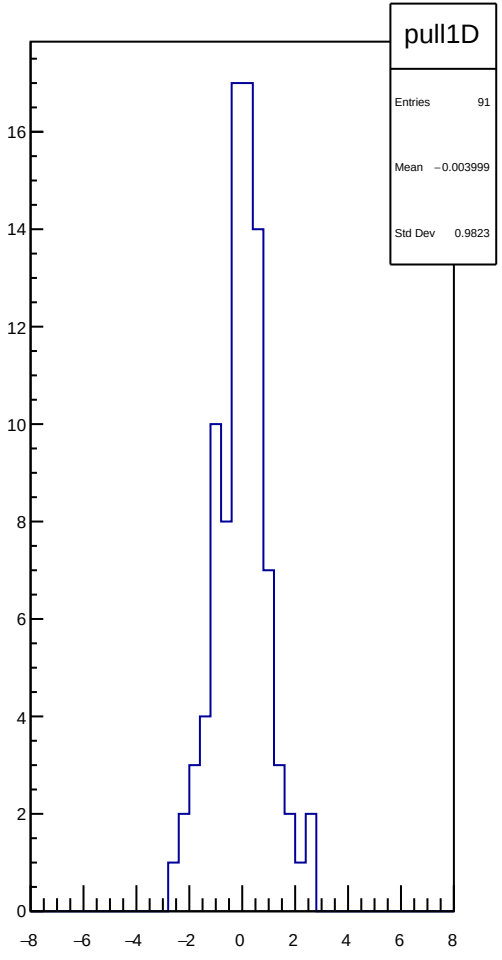

pull1D
Entries 91
Mean 0.01336
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

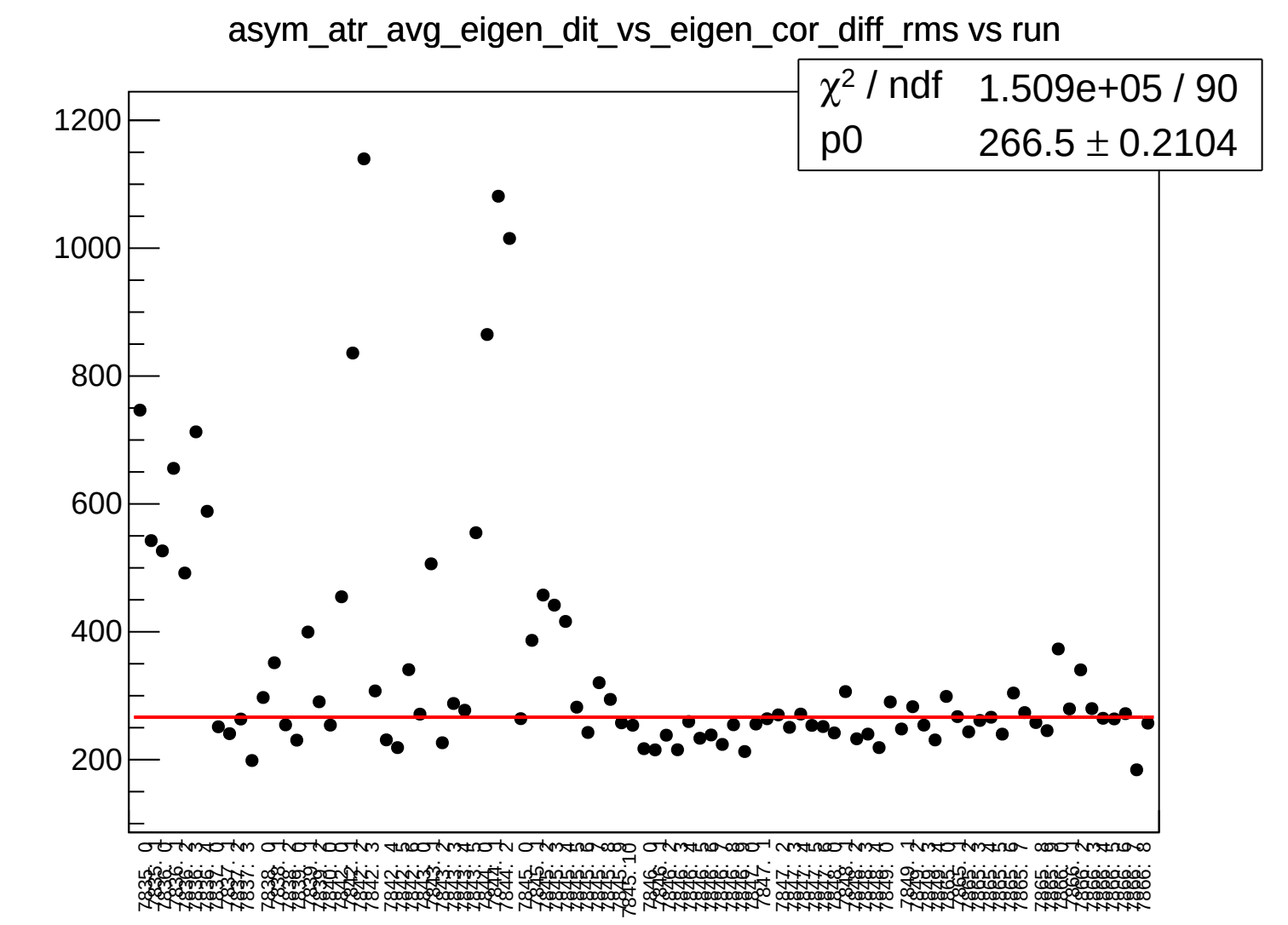

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.417e+04 / 90
p0 0.02014 ± 1.54e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

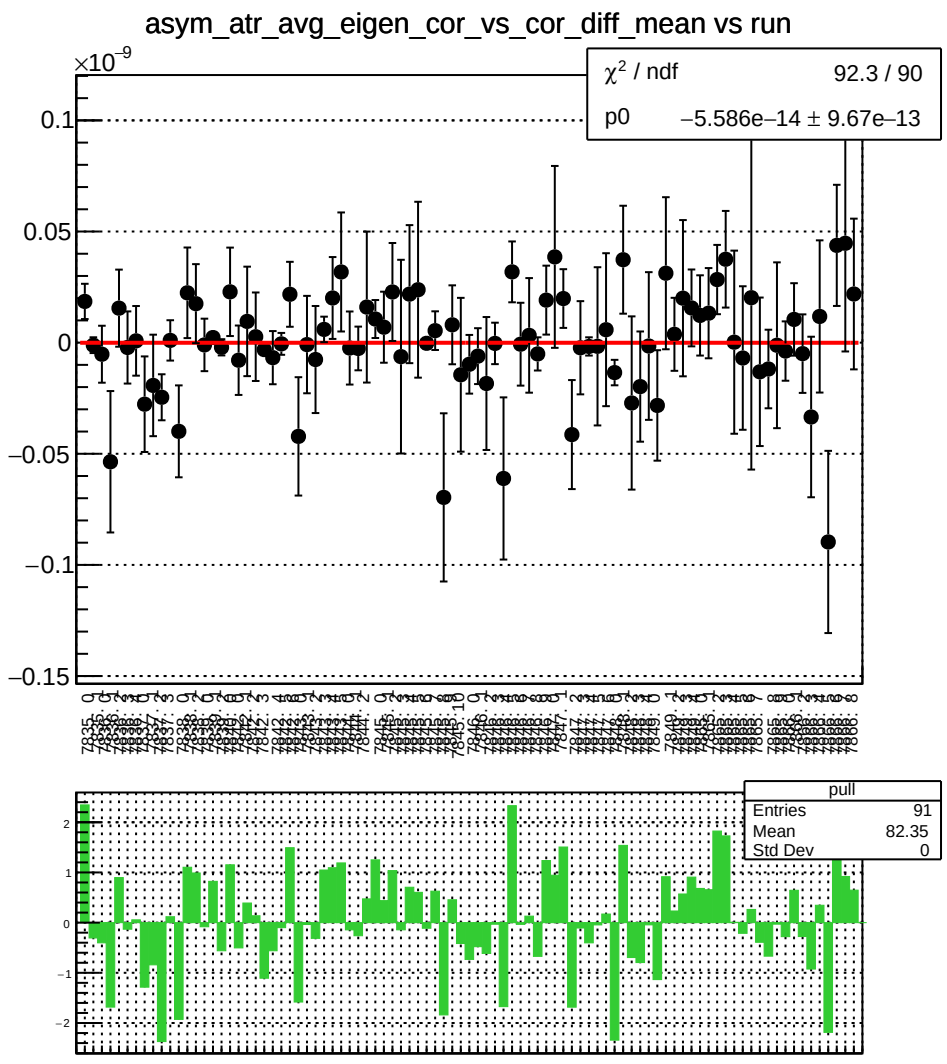

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.8 / 90
p0 0.04885 ± 0.2976
pull
Entries 91
Mean 760.4
Std Dev 0
pull1D
Entries 91
Mean −0.003999
Std Dev 0.9823

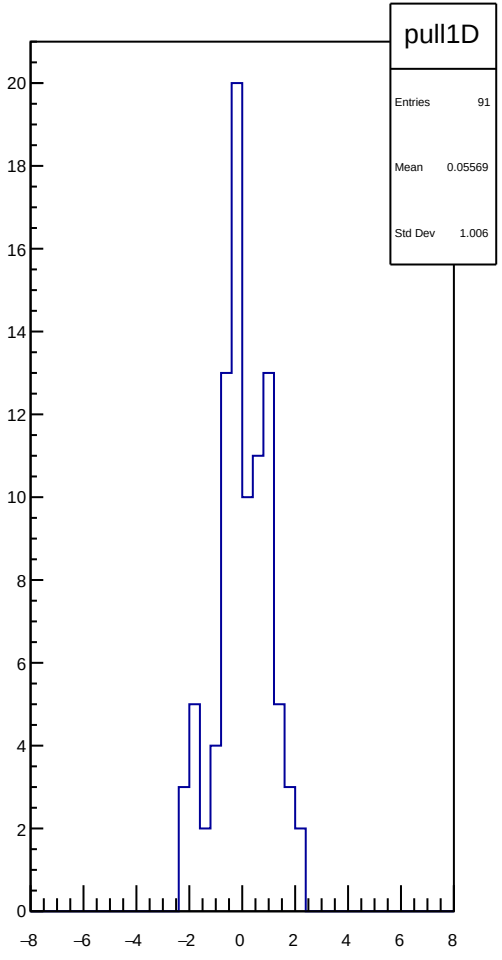

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.509e+05 / 90
p0 266.5 ± 0.2104
1200
1000
800
600
400
200

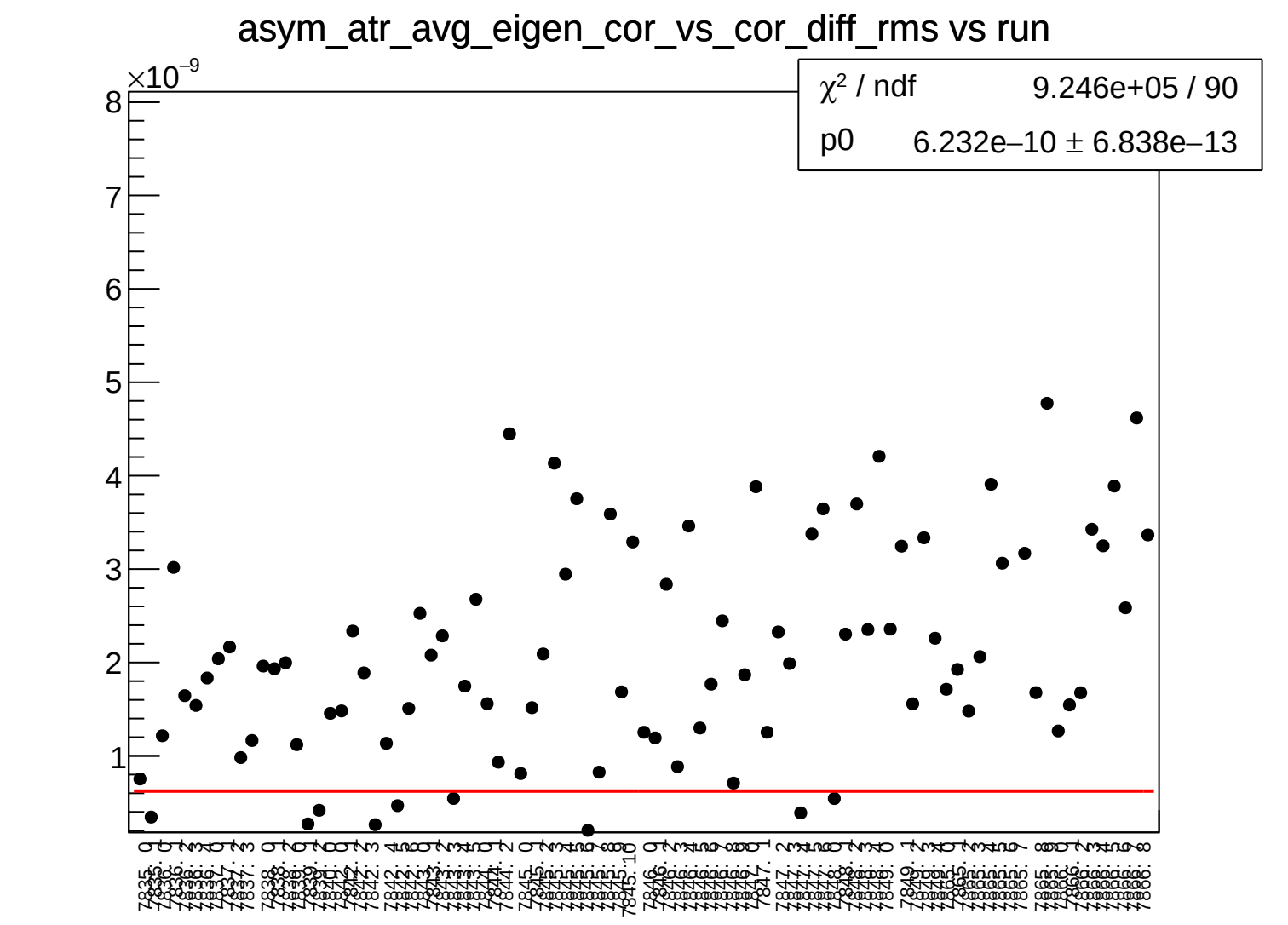

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.8 / 90
p0 0.04885 ± 0.2976
pull
Entries 91
Mean 760.4
Std Dev 0

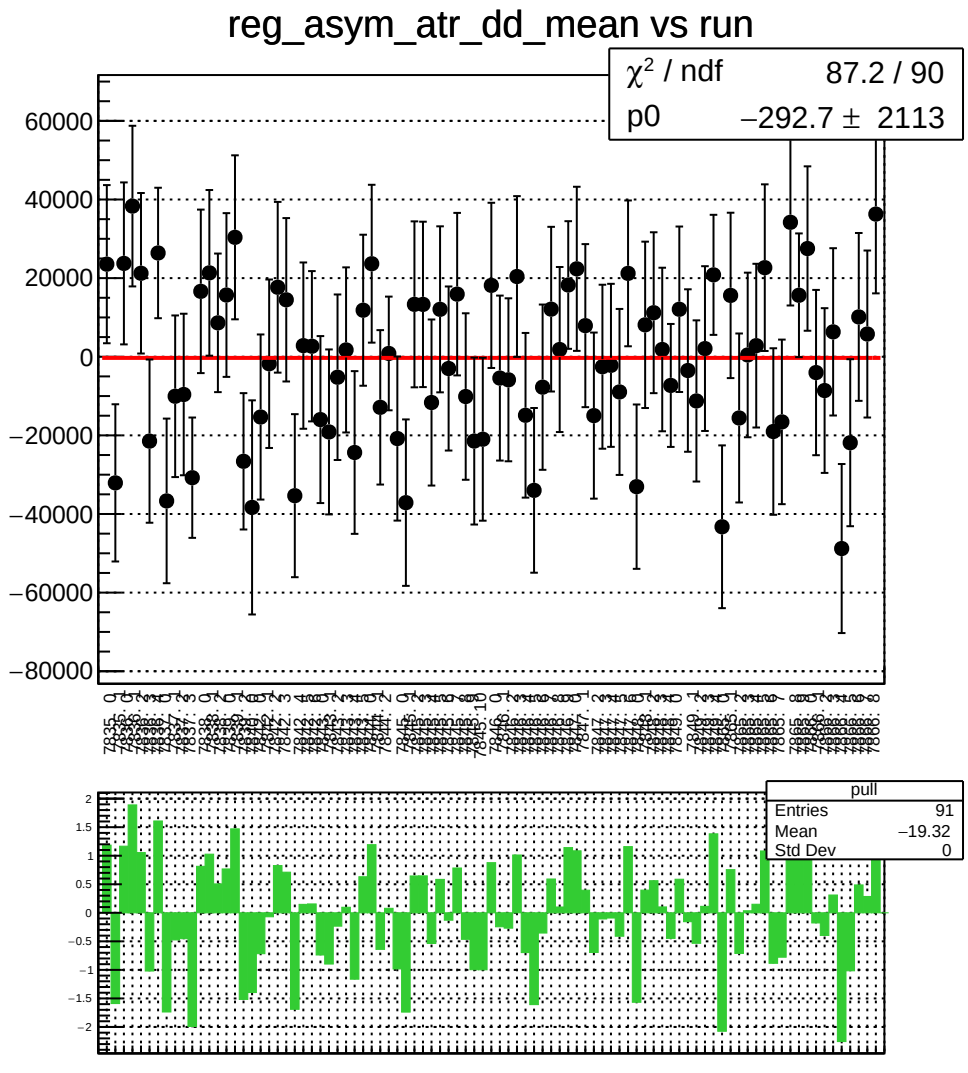

pull1D
Entries 91
Mean −0.003999
Std Dev 0.9823

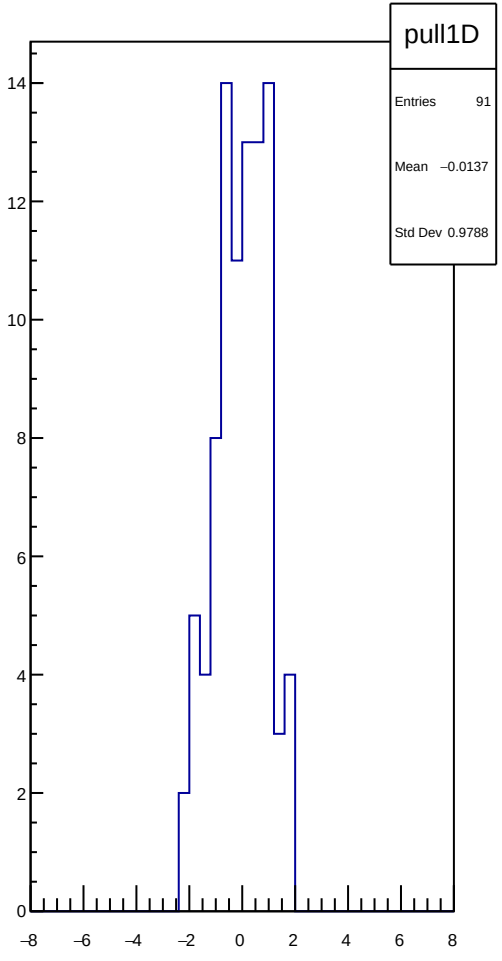

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.509e+05 / 90
p0 266.5 ± 0.2104
1200
1000
800
600
400
200

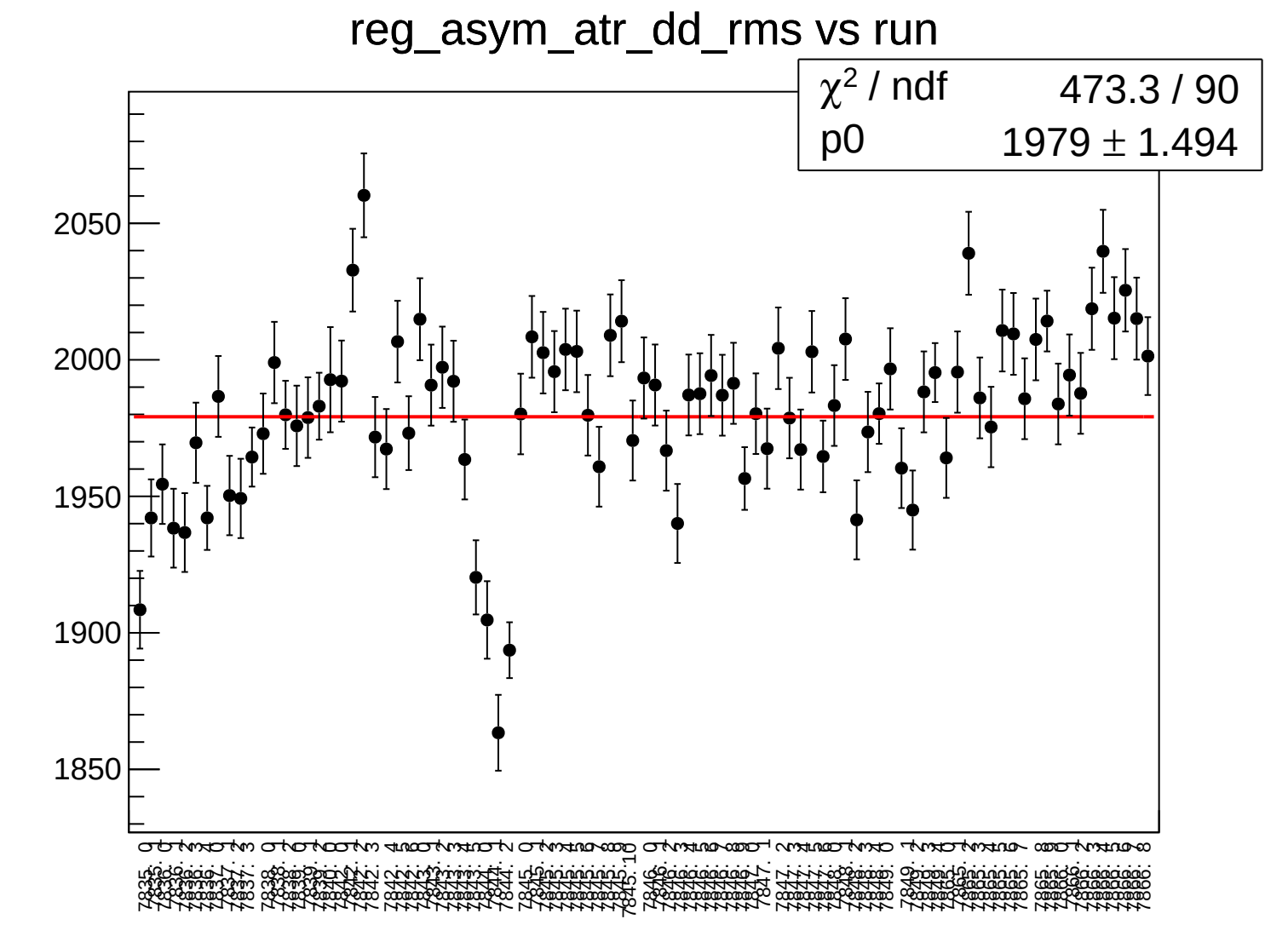

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 92.3 / 90
p0 −5.586e−14 ± 9.67e−13
pull
Entries 91
Mean 82.35
Std Dev 0

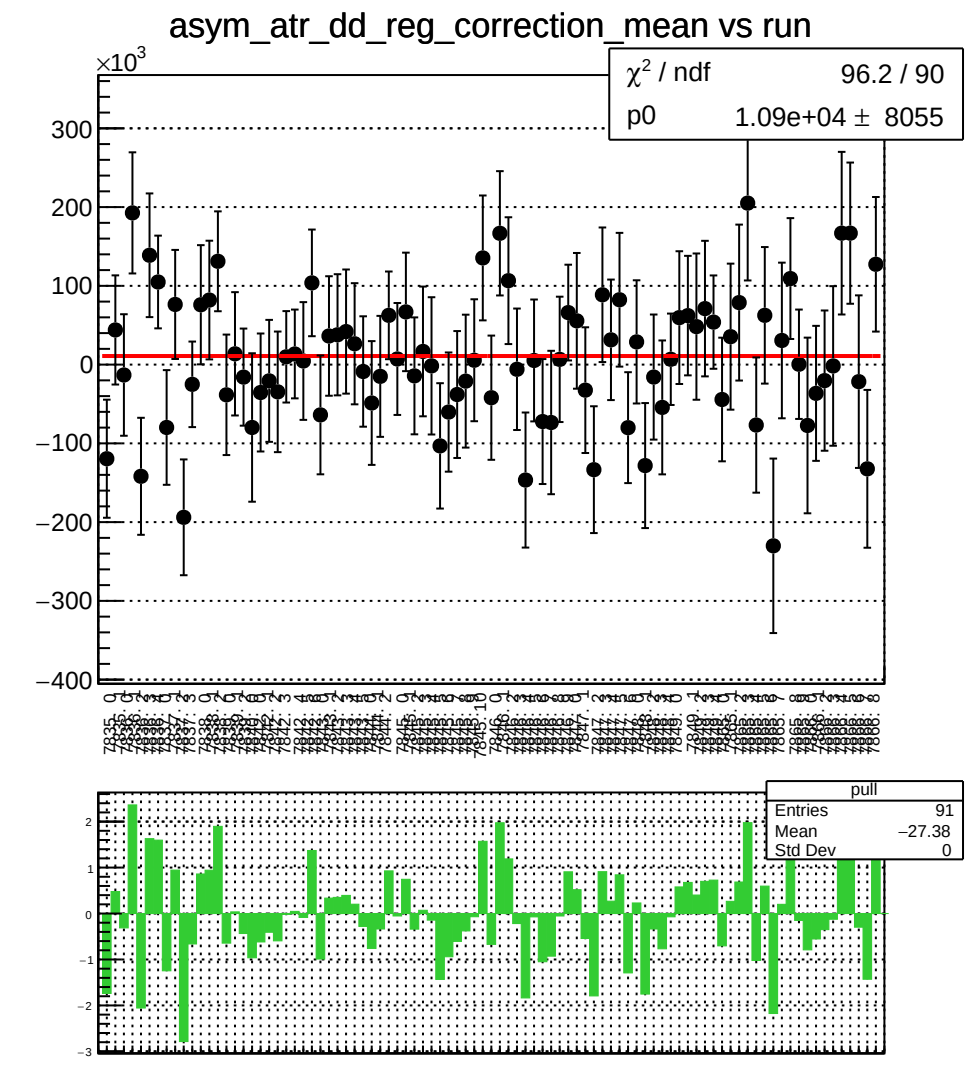

pull1D
Entries 91
Mean 0.05569
Std Dev 1.006

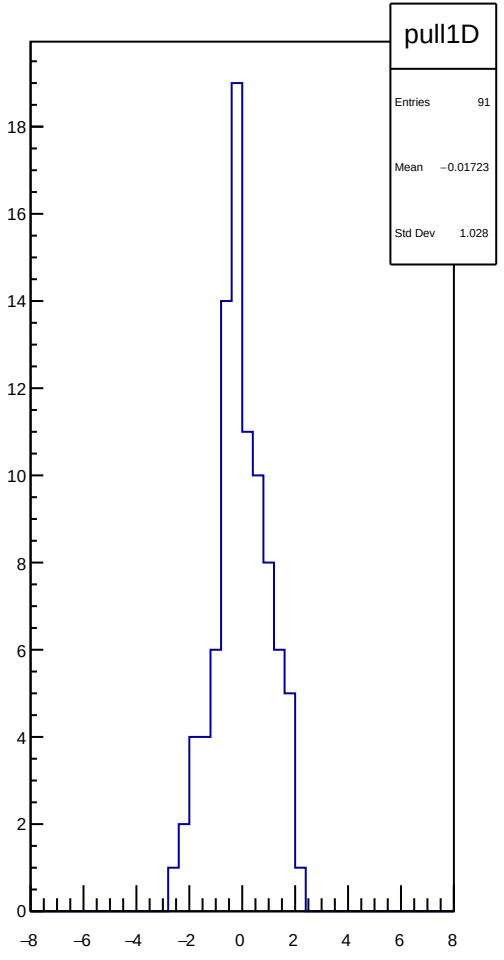

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.246e+05 / 90
p0 6.232e−10 ± 6.838e−13
8
7
6
5
4
3
2
1

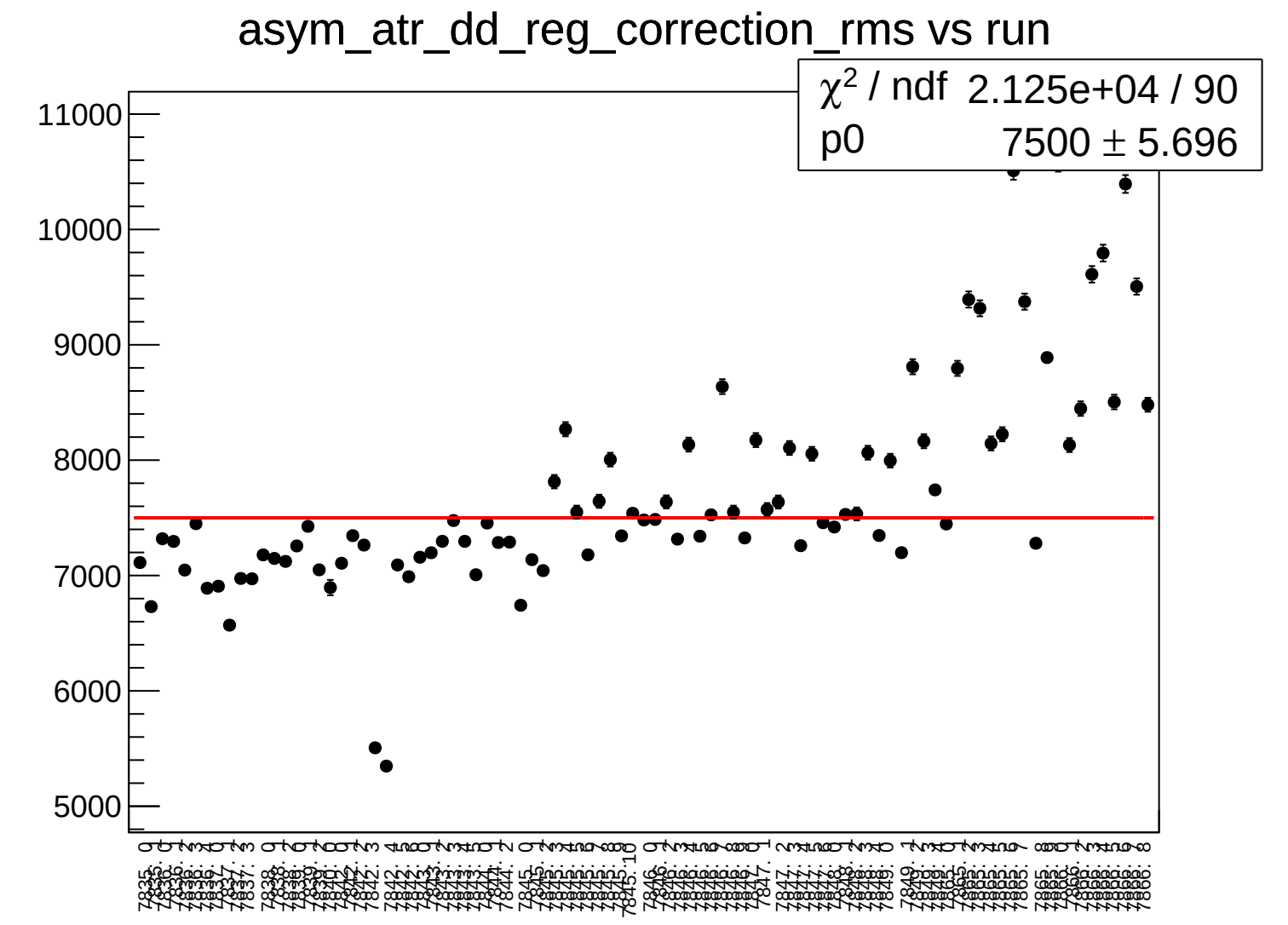

reg_asym_atr_dd_mean vs run
χ² / ndf 87.2 / 90
p0 −292.7 ± 2113
pull
Entries 91
Mean −19.32
Std Dev 0

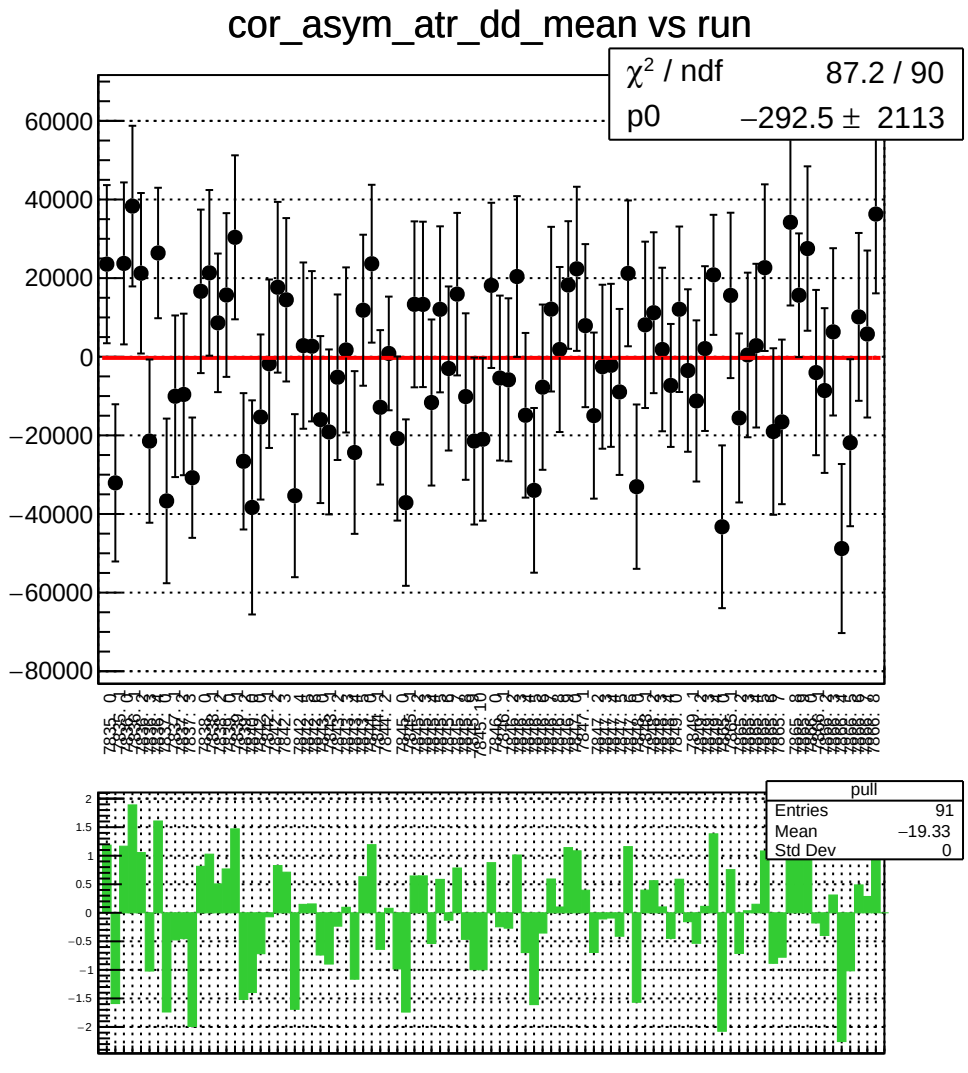

pull1D
Entries 91
Mean −0.0137
Std Dev 0.9788

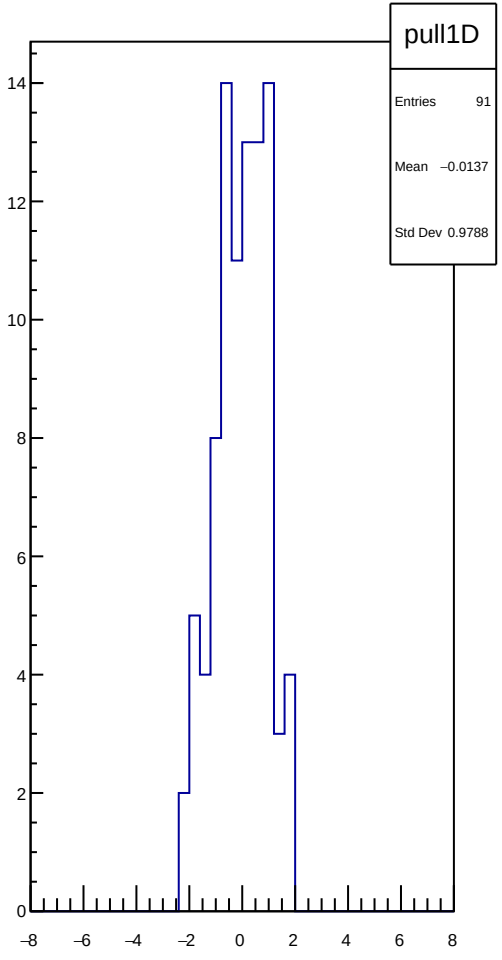

reg_asym_atr_dd_rms vs run
χ^2 / ndf 473.3 / 90
p0 1979 ± 1.494
2050
2000
1950
1900
1850

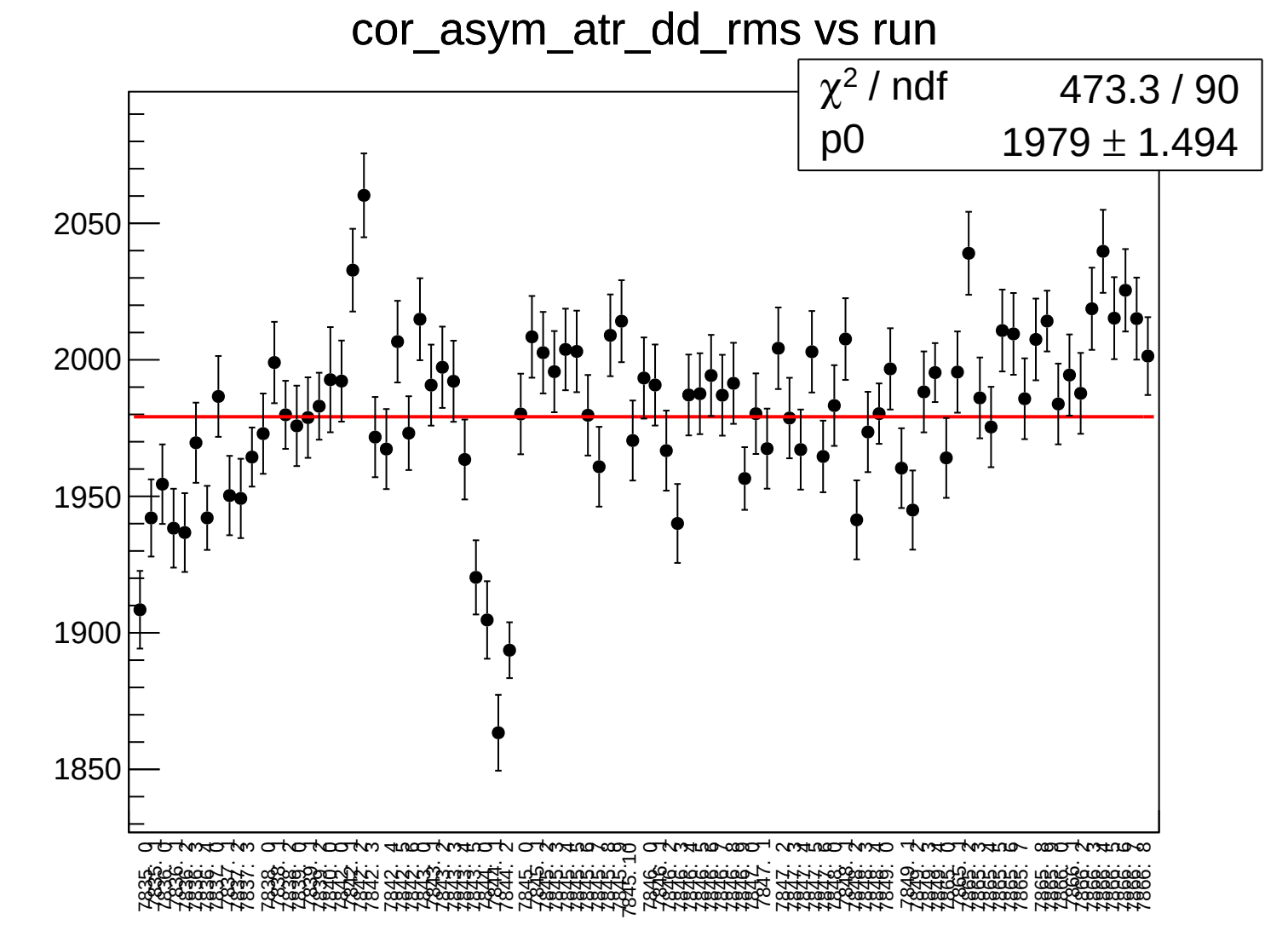

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.2 / 90
p0 1.09e+04 ± 8055
pull
Entries 91
Mean −27.38
Std Dev 0

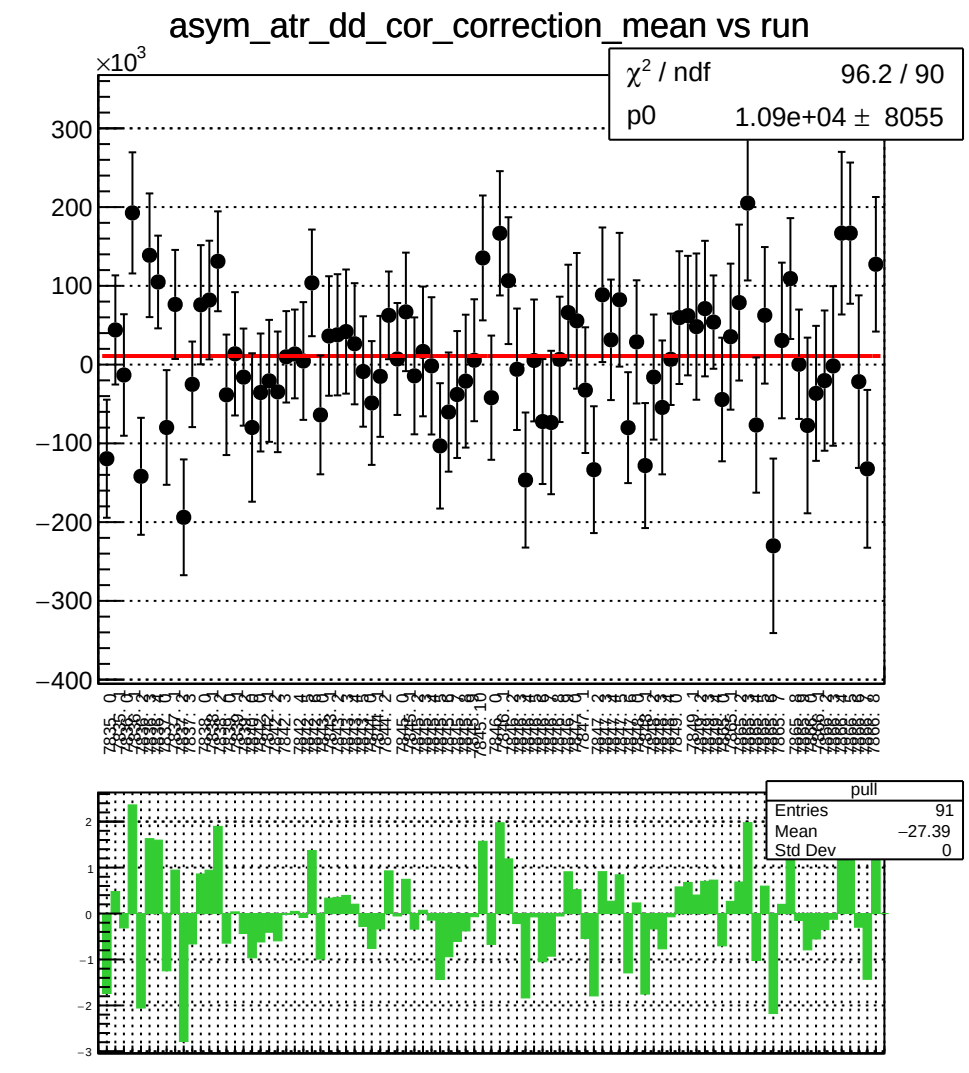

pull1D
Entries 91
Mean −0.01723
Std Dev 1.028

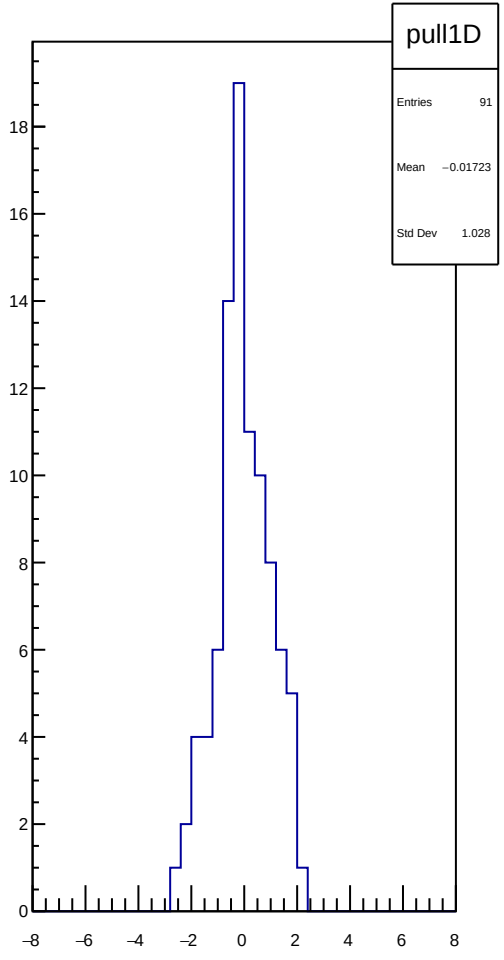

asym_atr_dd_reg_correction_rms vs run
χ^2 / ndf 2.125e+04 / 90
p0 7500 ± 5.696
11000
10000
9000
8000
7000
6000
5000

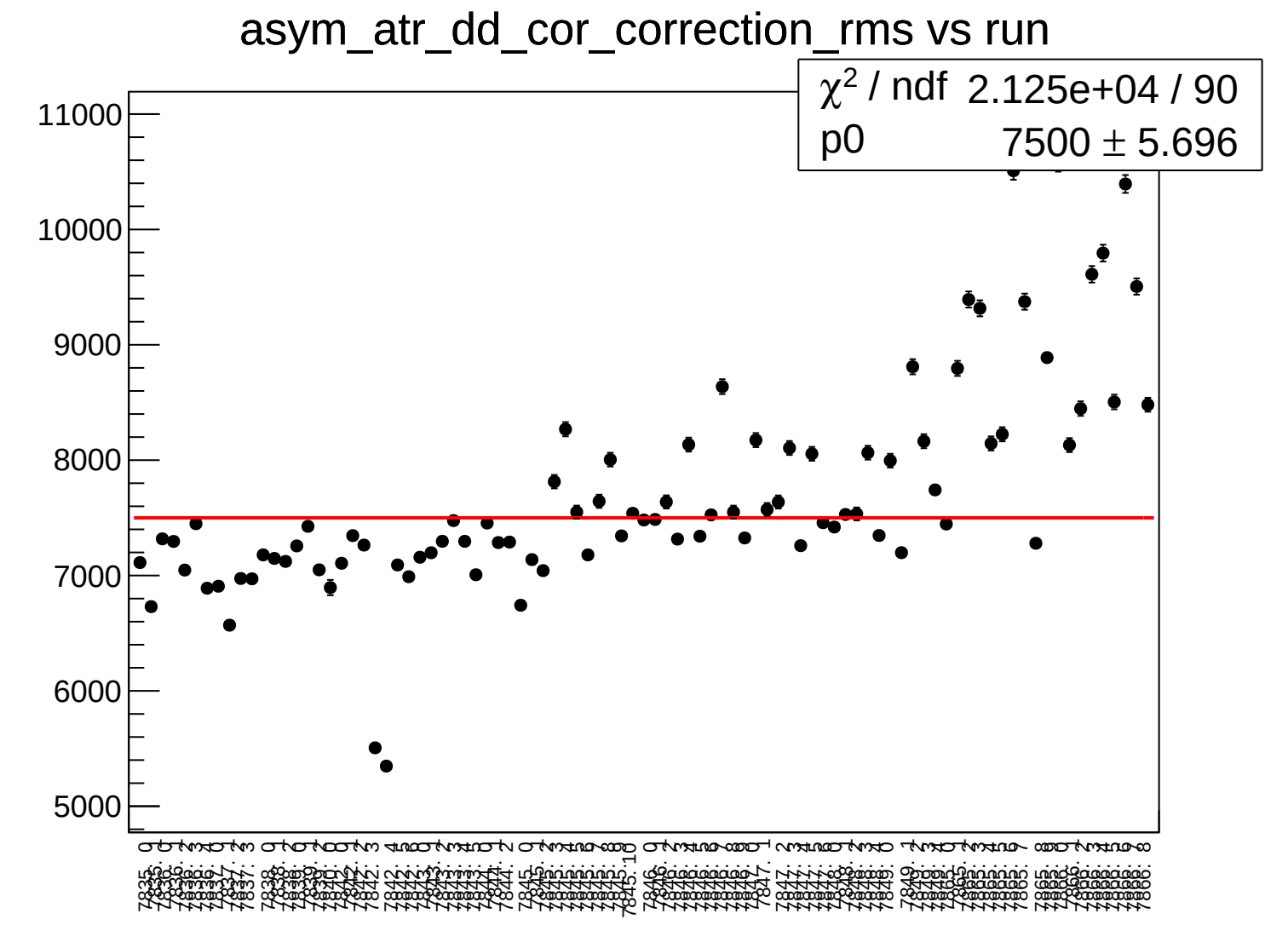

cor_asym_atr_dd_mean vs run
χ² / ndf 87.2 / 90
p0 −292.5 ± 2113
pull
Entries 91
Mean −19.33
Std Dev 0

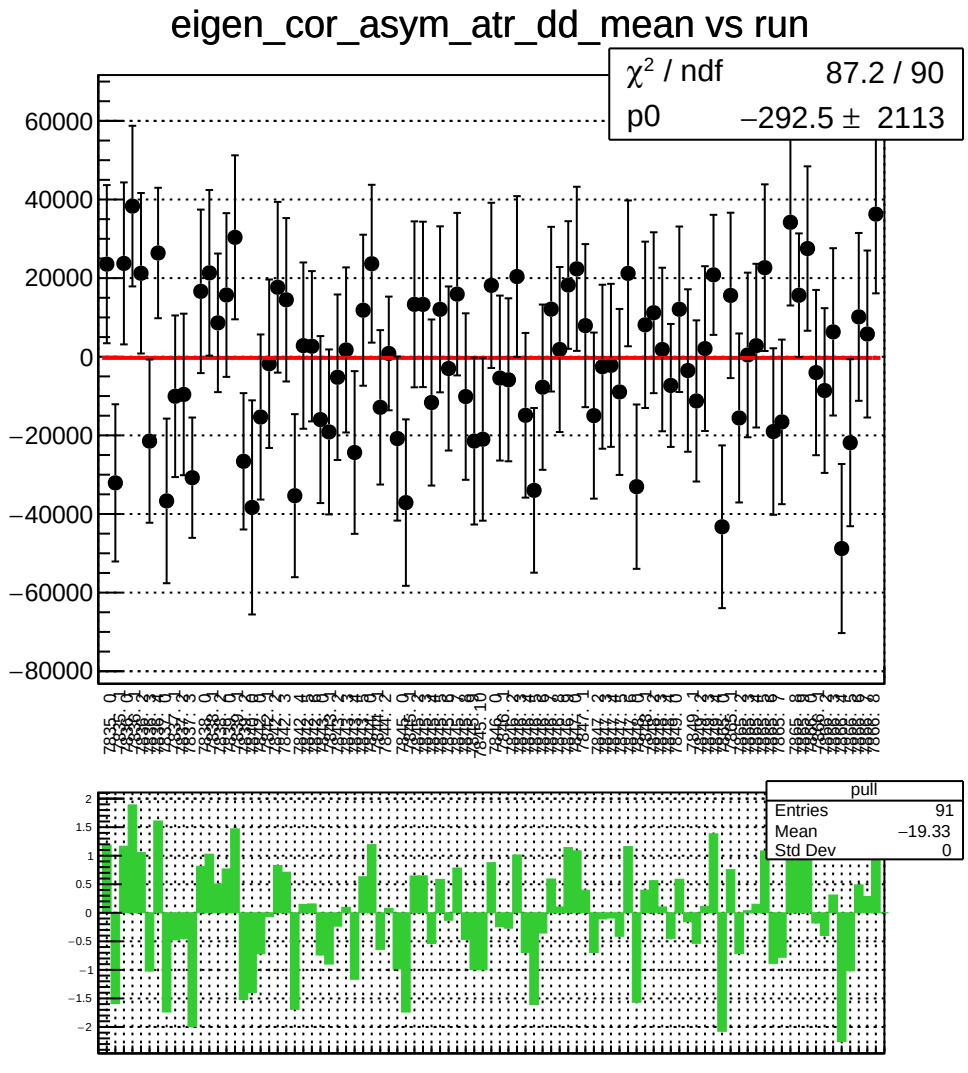

pull1D
Entries 91
Mean −0.0137
Std Dev 0.9788

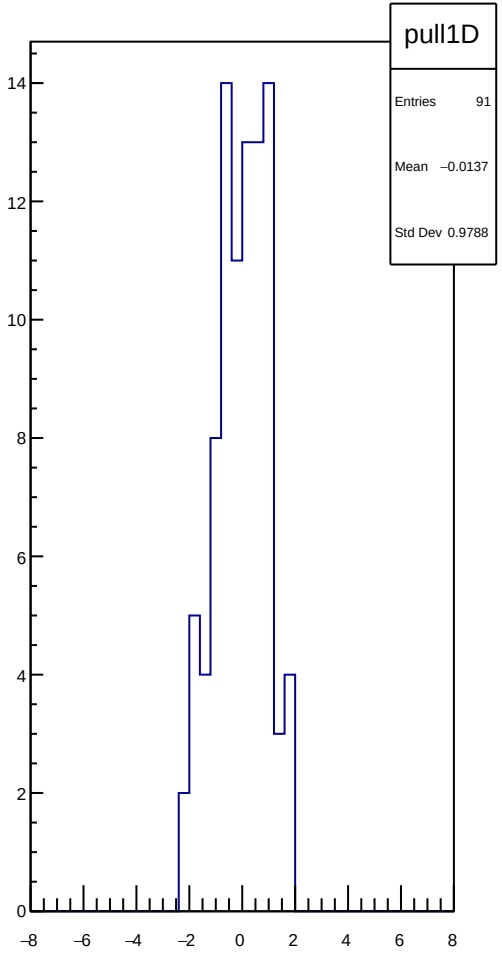

cor_asym_atr_dd_rms vs run
χ^2 / ndf 473.3 / 90
p0 1979 ± 1.494
2050
2000
1950
1900
1850

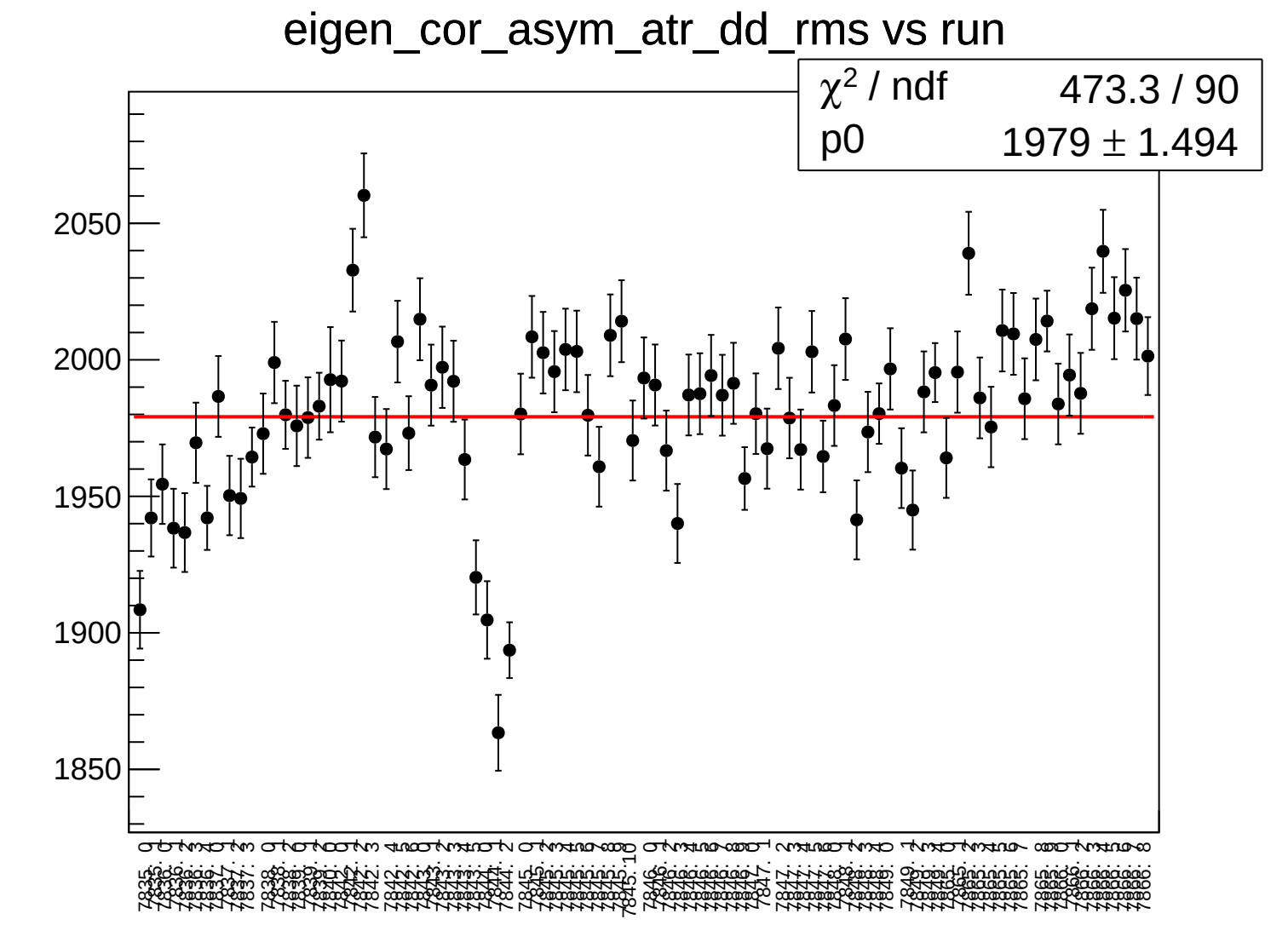

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.2 / 90
p0 1.09e+04 ± 8055
300
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean −27.39
Std Dev 0
2
1
0
−1
−2
−3

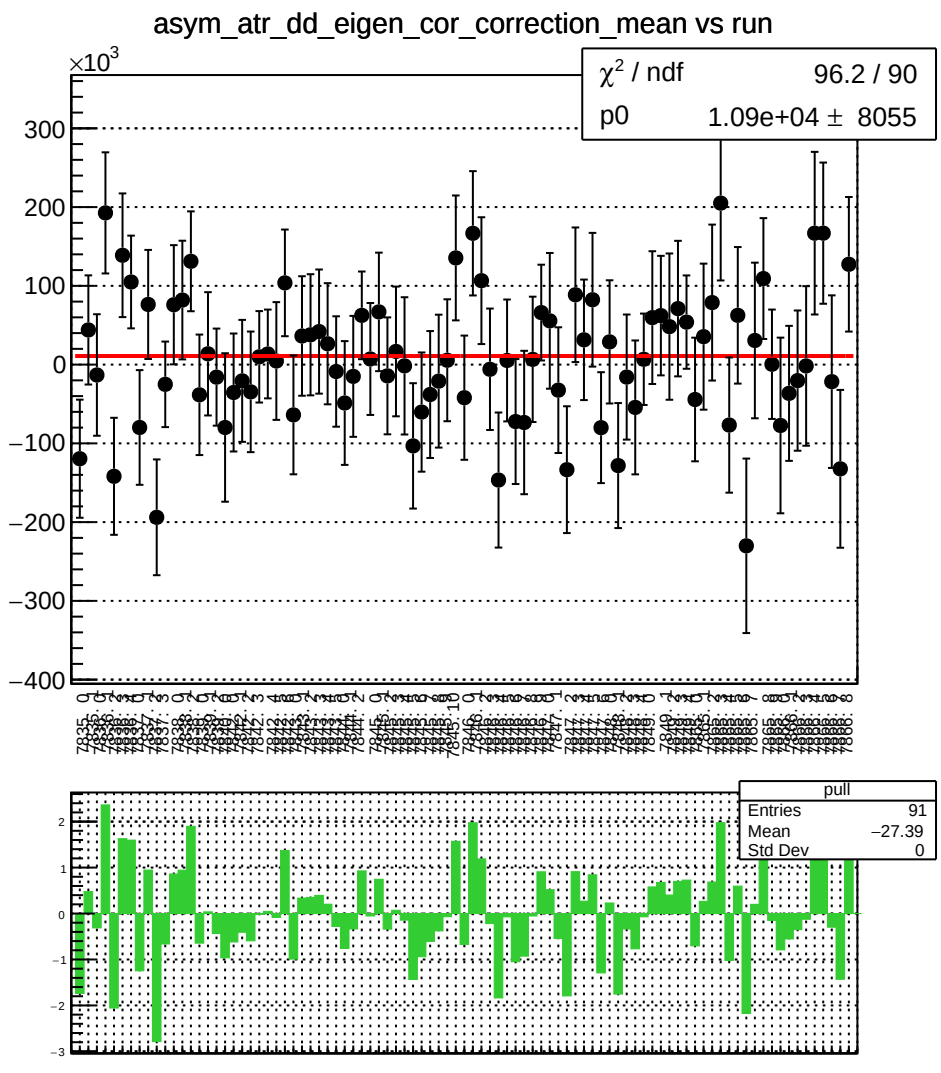

pull1D
Entries 91
Mean −0.01723
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

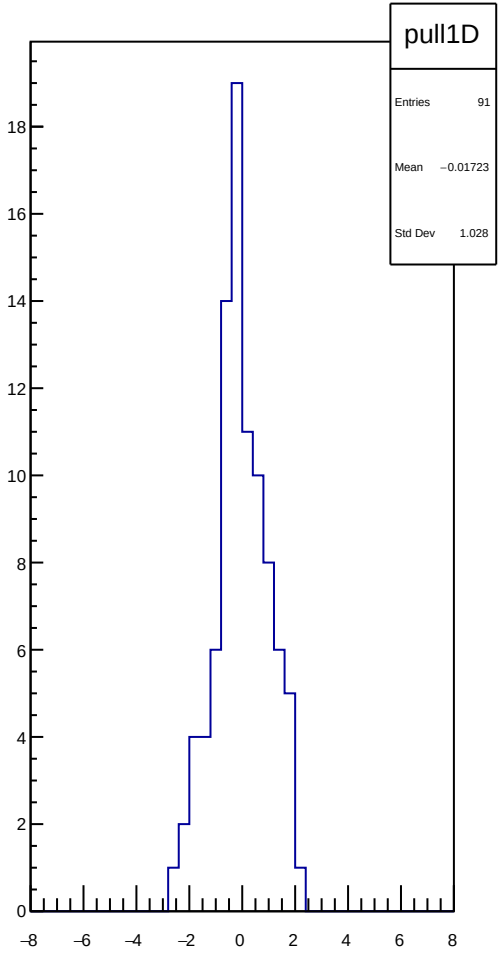

asym_atr_dd_cor_correction_rms vs run
χ^2 / ndf 2.125e+04 / 90
p0 7500 ± 5.696
11000
10000
9000
8000
7000
6000
5000

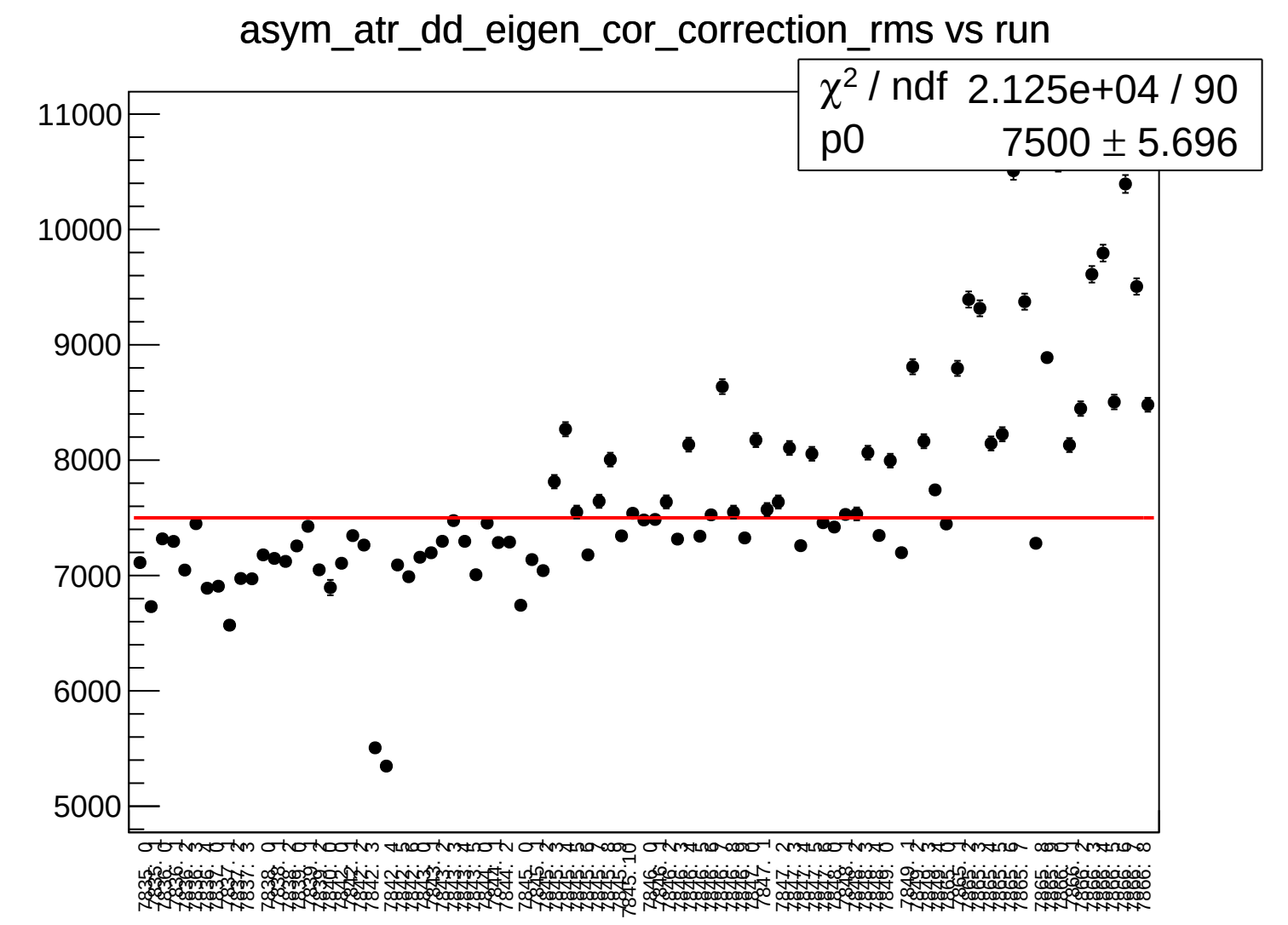

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 87.2 / 90
p0 −292.5 ± 2113
pull
Entries 91
Mean −19.33
Std Dev 0

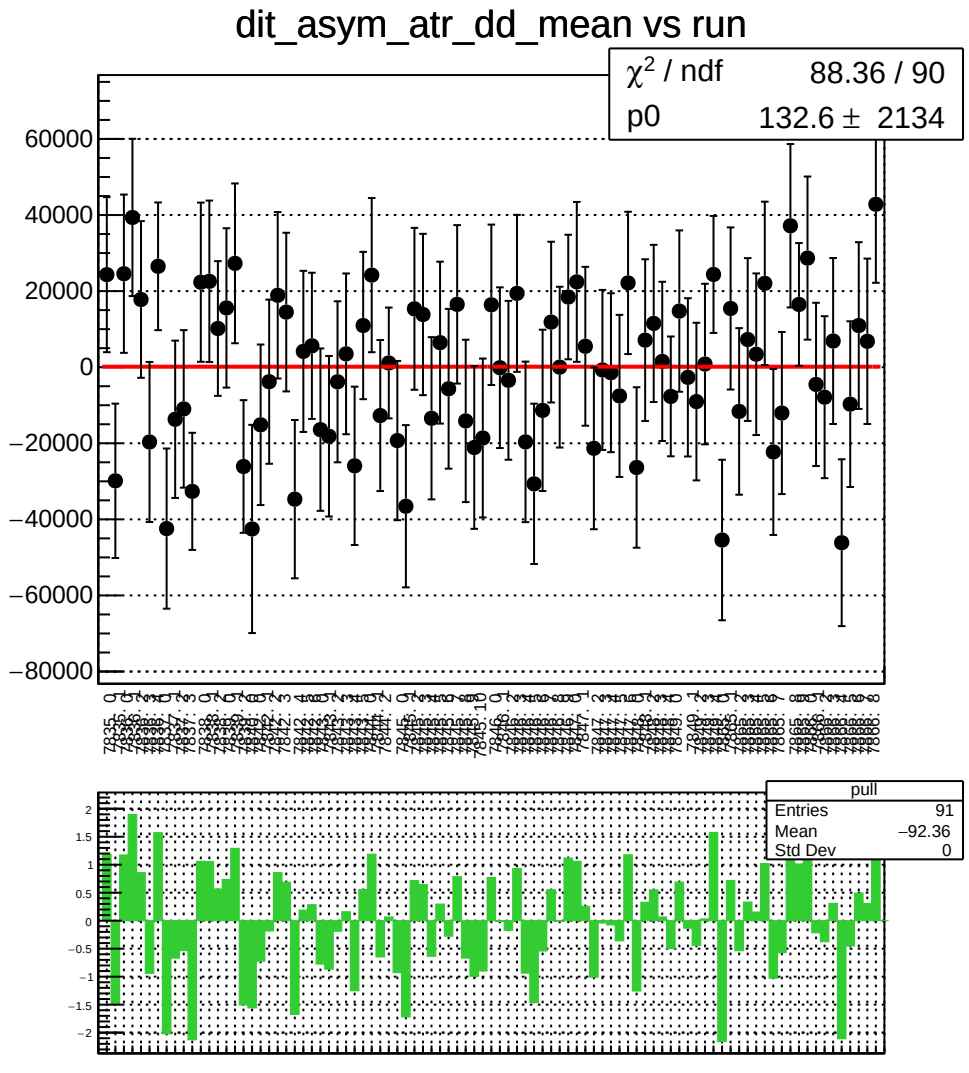

pull1D
Entries 91
Mean −0.0137
Std Dev 0.9788

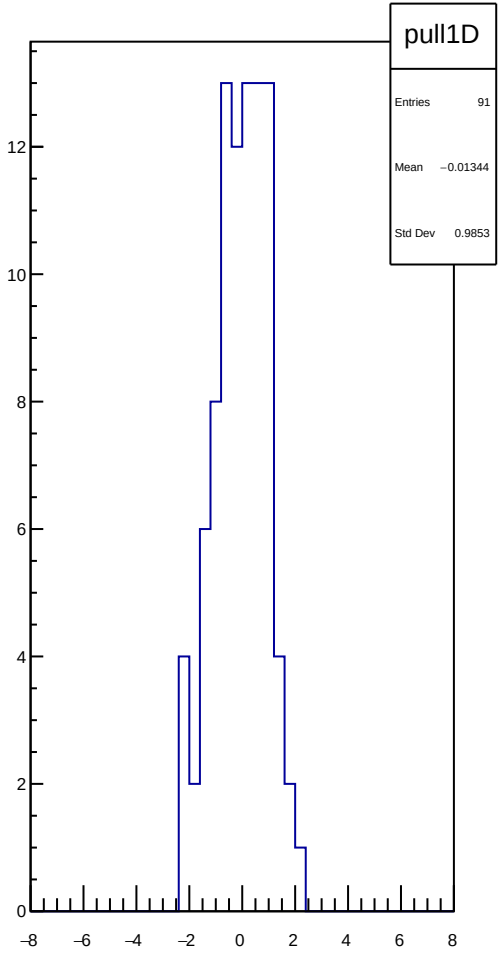

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 473.3 / 90
p0 1979 ± 1.494
2050
2000
1950
1900
1850

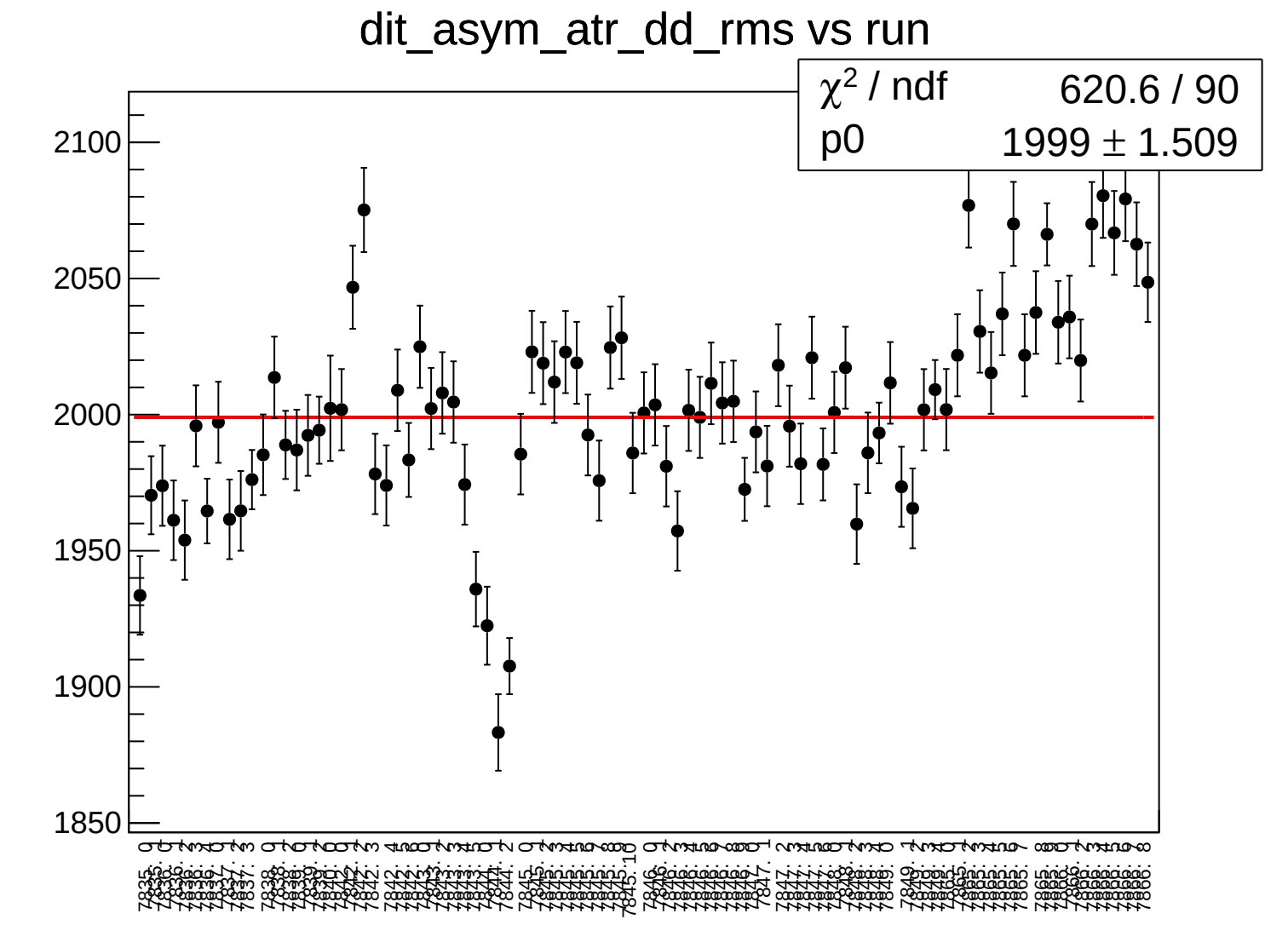

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.2 / 90
p0 1.09e+04 ± 8055
pull
Entries 91
Mean −27.39
Std Dev 0

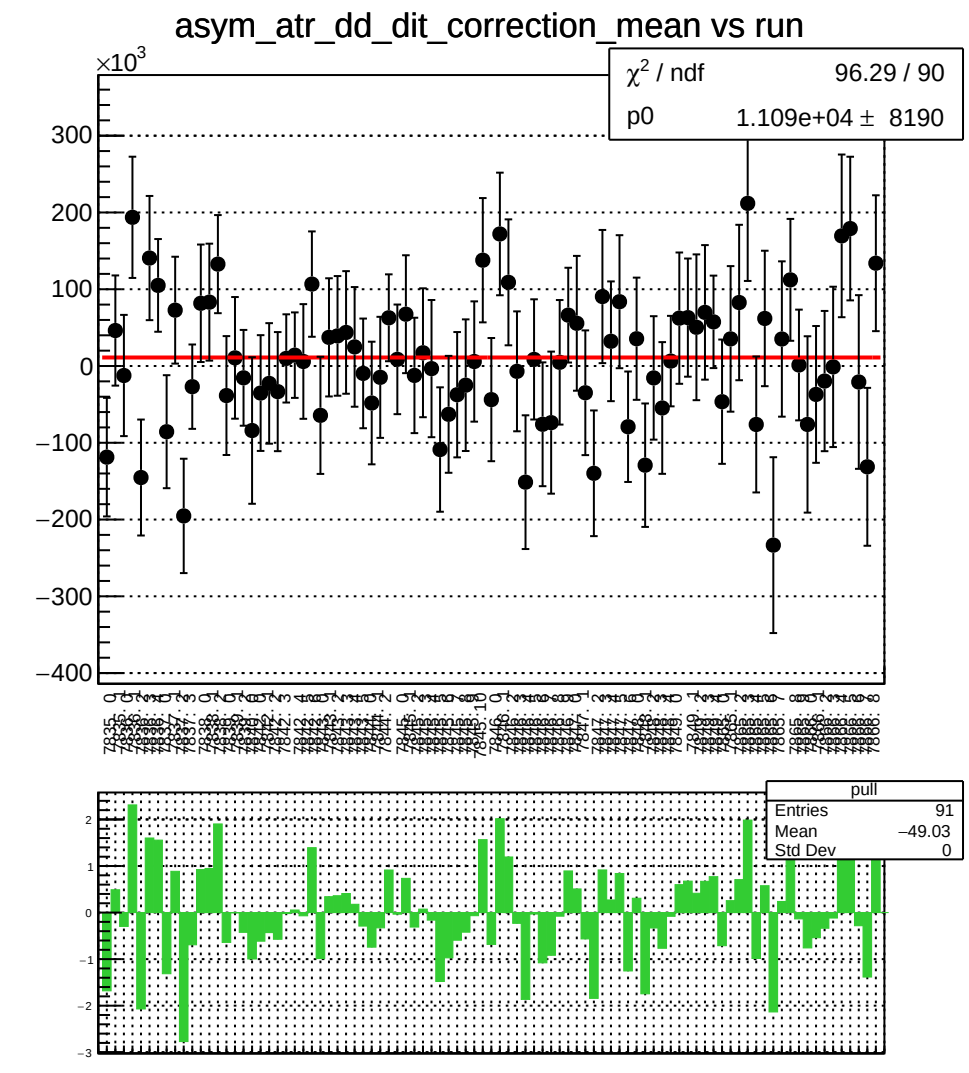

pull1D
Entries 91
Mean −0.01723
Std Dev 1.028

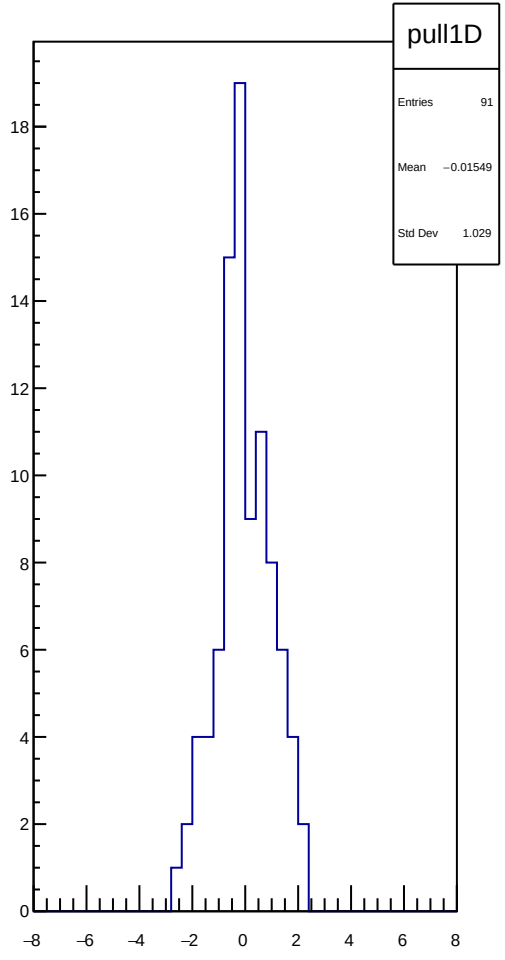

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2.125e+04 / 90
p0 7500 ± 5.696
11000
10000
9000
8000
7000
6000
5000

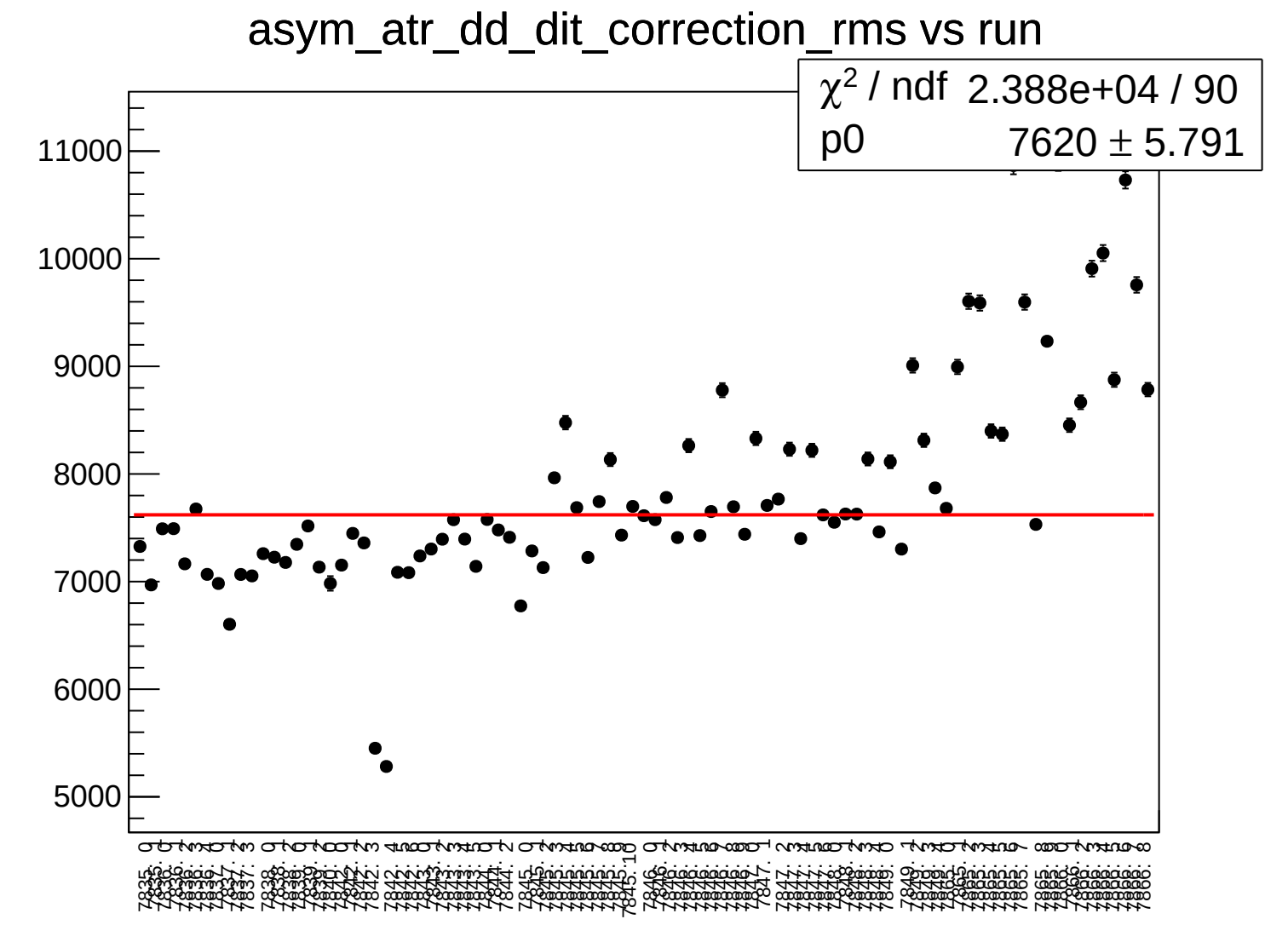

dit_asym_atr_dd_mean vs run
χ² / ndf 88.36 / 90
p0 132.6 ± 2134
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −92.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

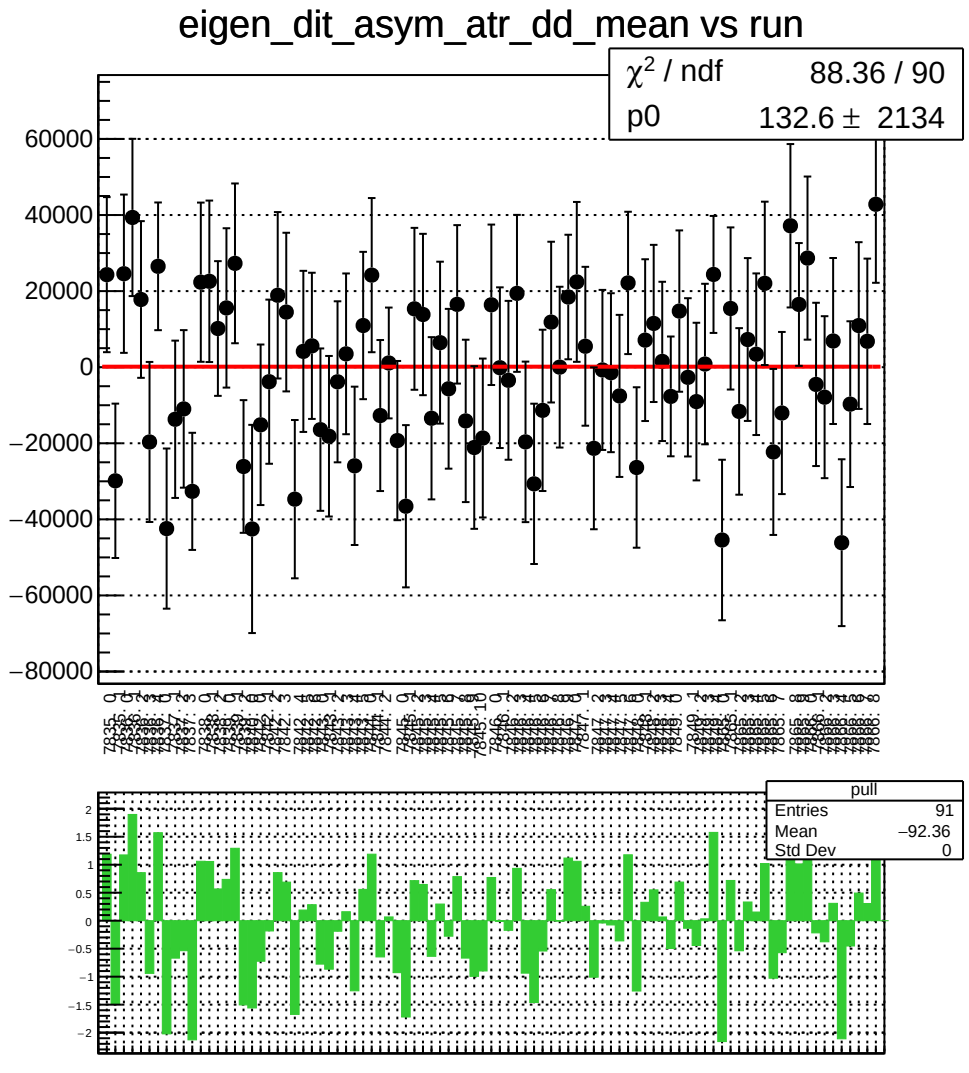

pull1D
Entries 91
Mean −0.01344
Std Dev 0.9853
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

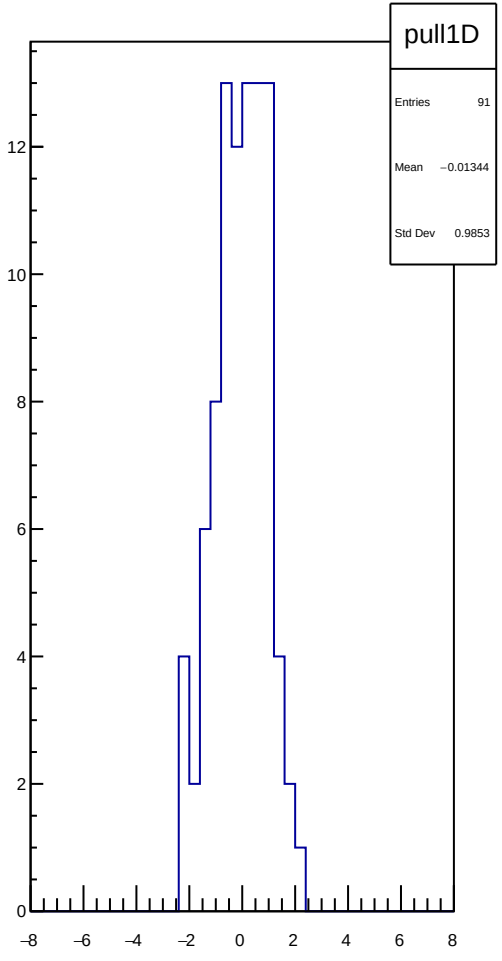

dit_asym_atr_dd_rms vs run
χ² / ndf 620.6 / 90
p0 1999 ± 1.509
2100
2050
2000
1950
1900
1850

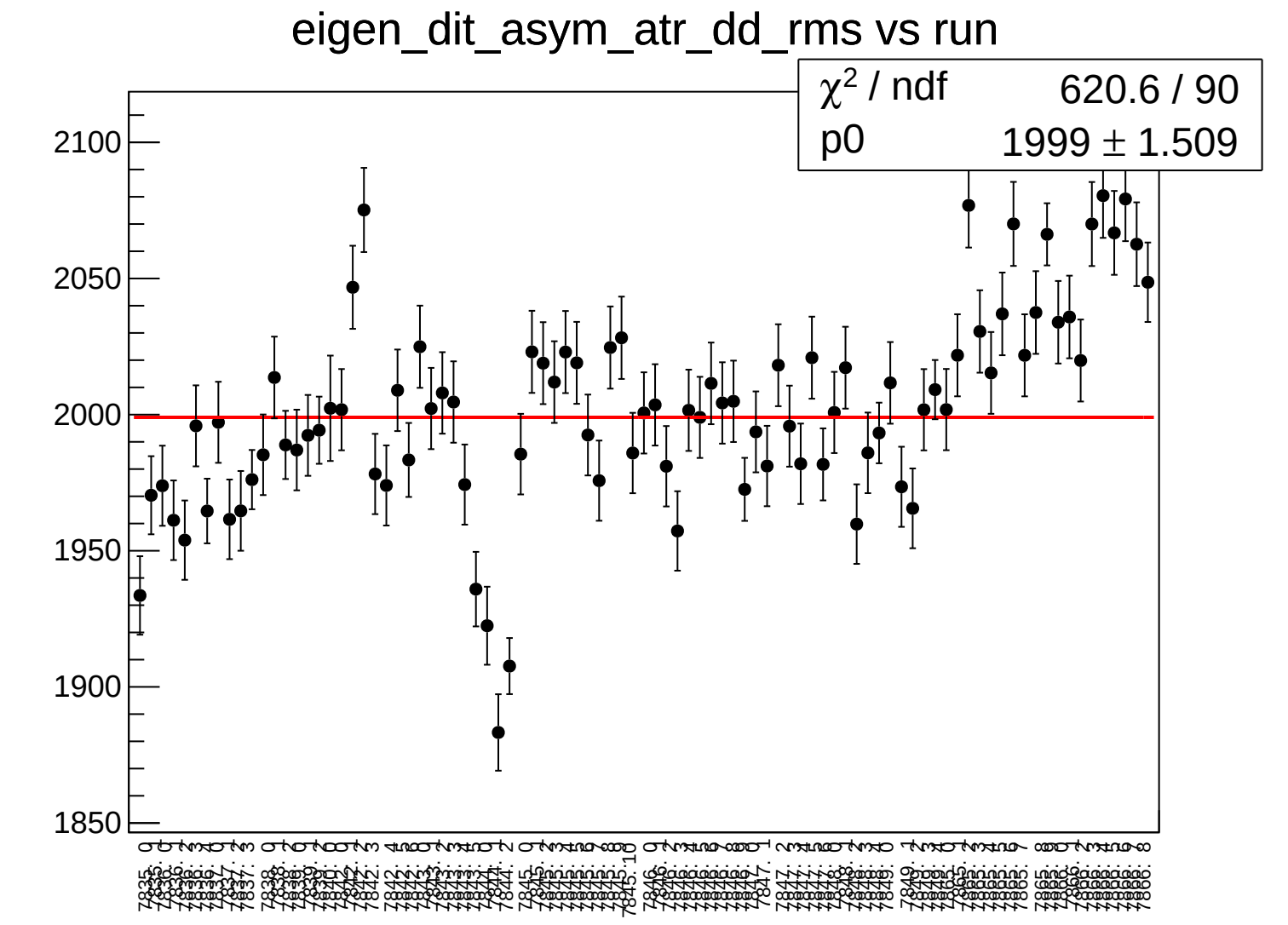

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.29 / 90
p0 1.109e+04 ± 8190
300
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean −49.03
Std Dev 0
2
1
0
−1
−2
−3

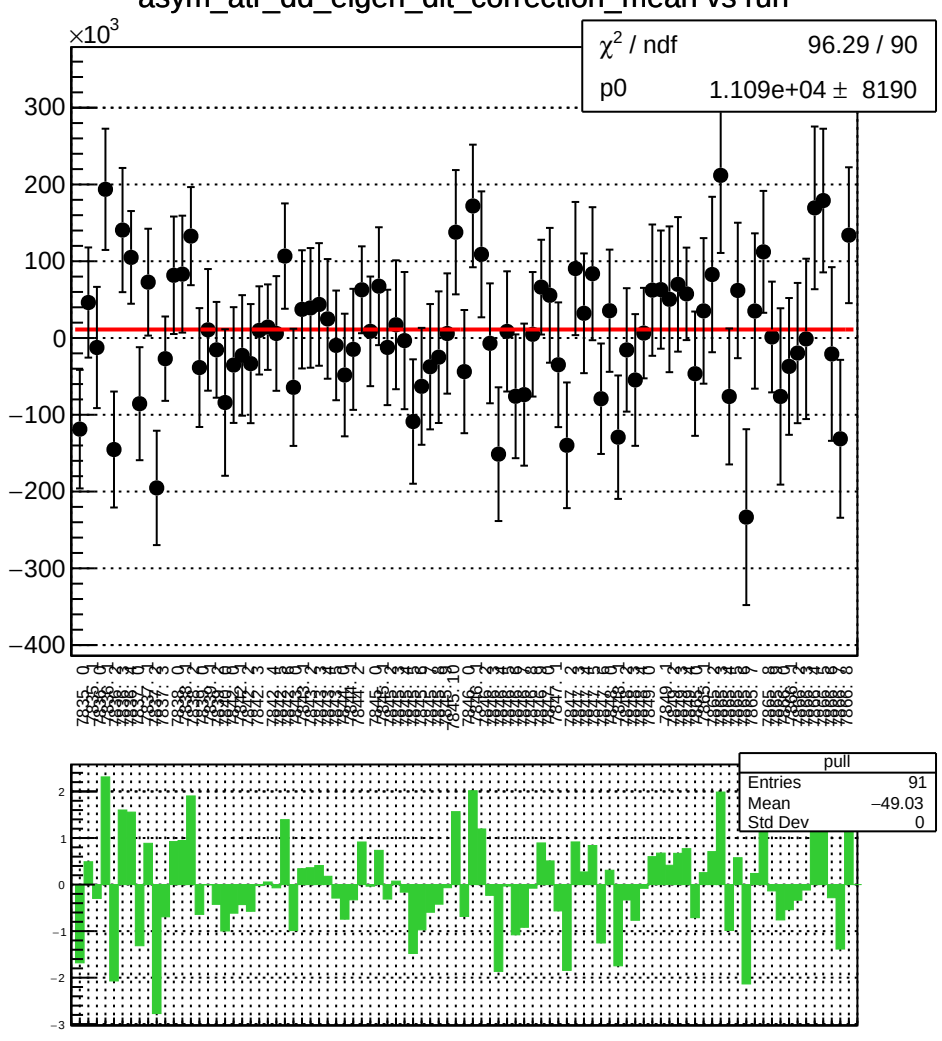

pull1D
Entries 91
Mean −0.01549
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

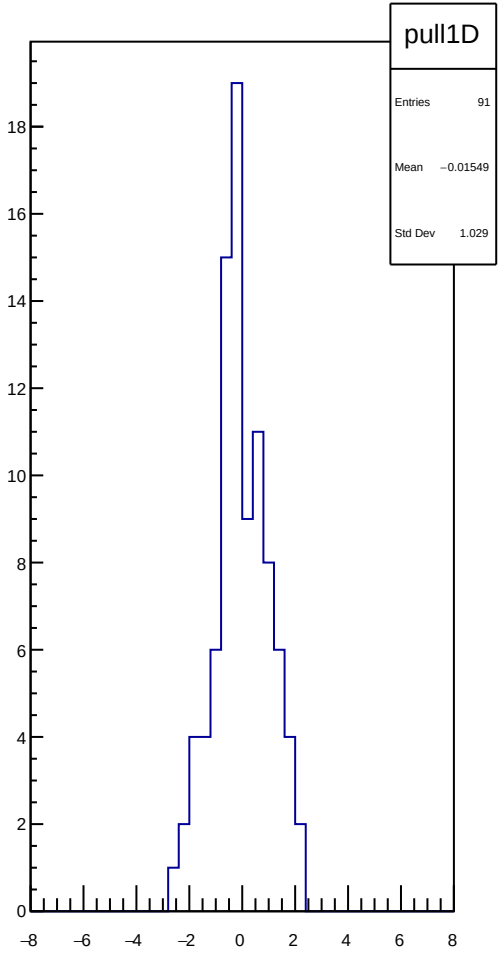

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 2.388e+04 / 90
p0 7620 ± 5.791
11000
10000
9000
8000
7000
6000
5000

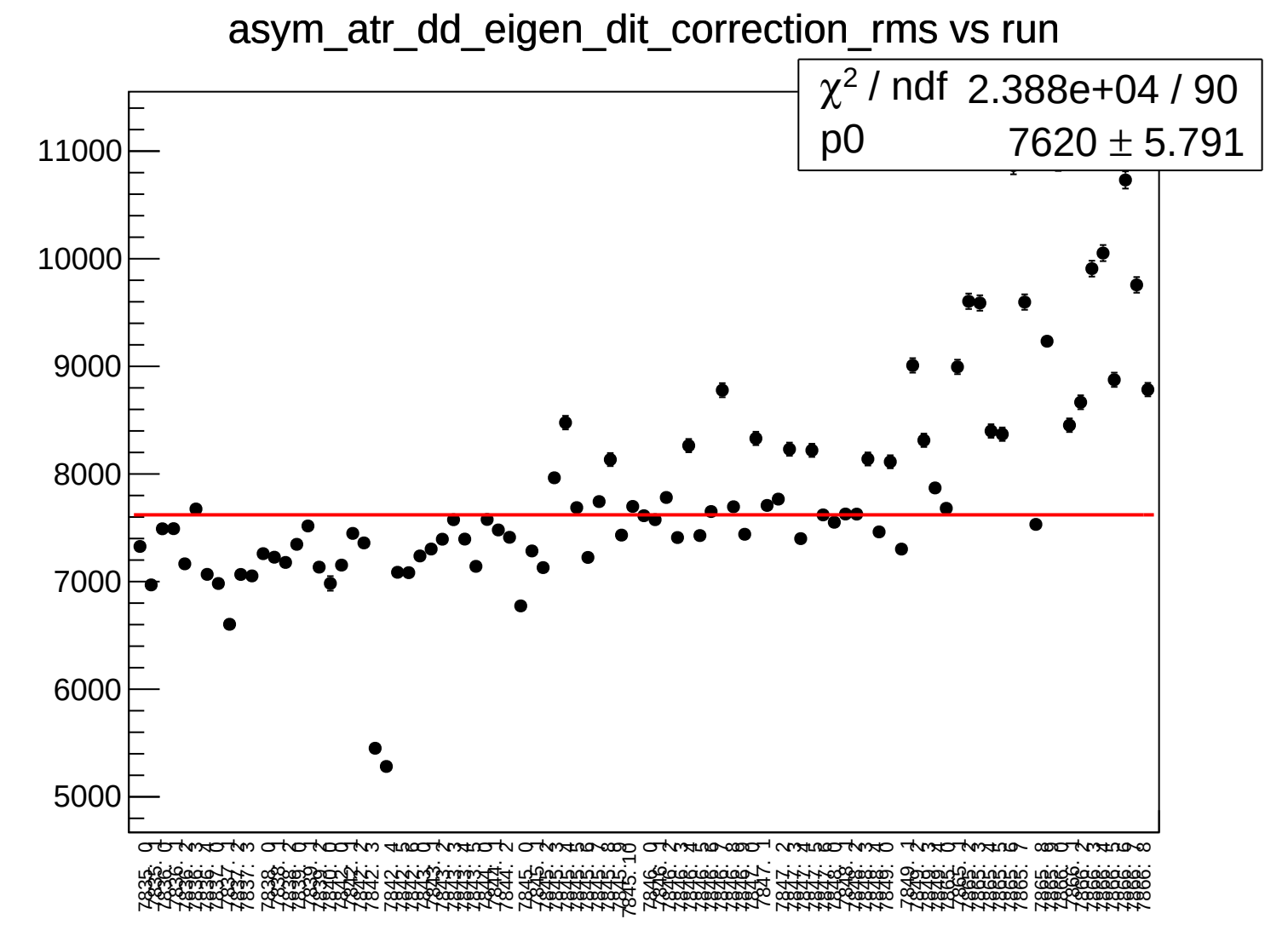

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 88.36 / 90
p0 132.6 ± 2134
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −92.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

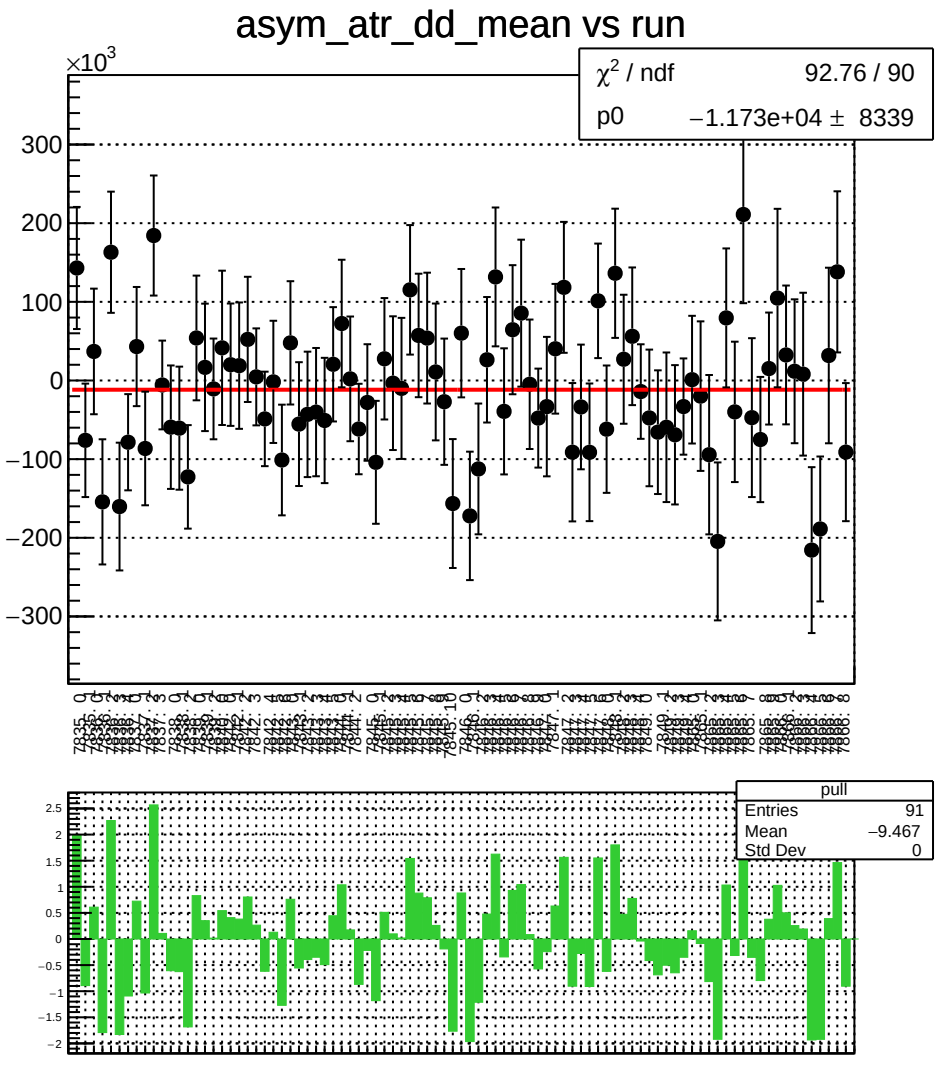

pull1D
Entries 91
Mean −0.01344
Std Dev 0.9853
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

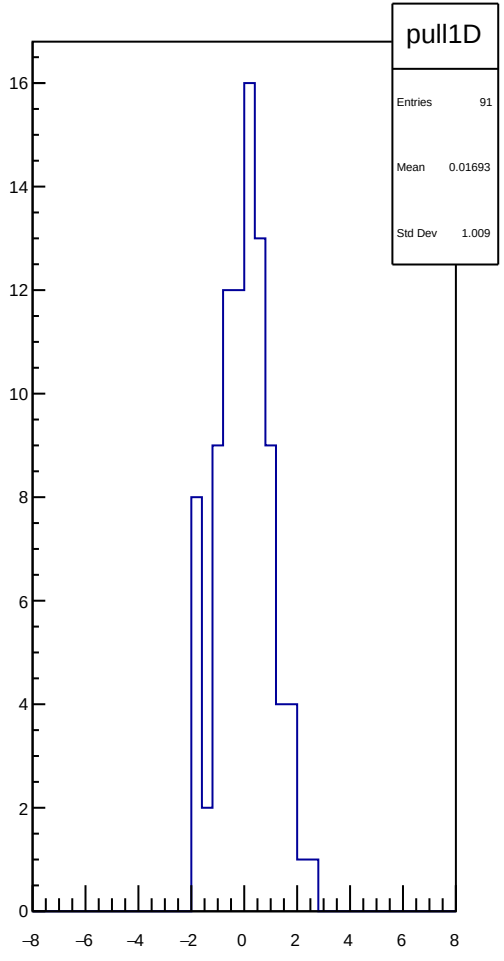

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 620.6 / 90
p0 1999 ± 1.509
2100
2050
2000
1950
1900
1850

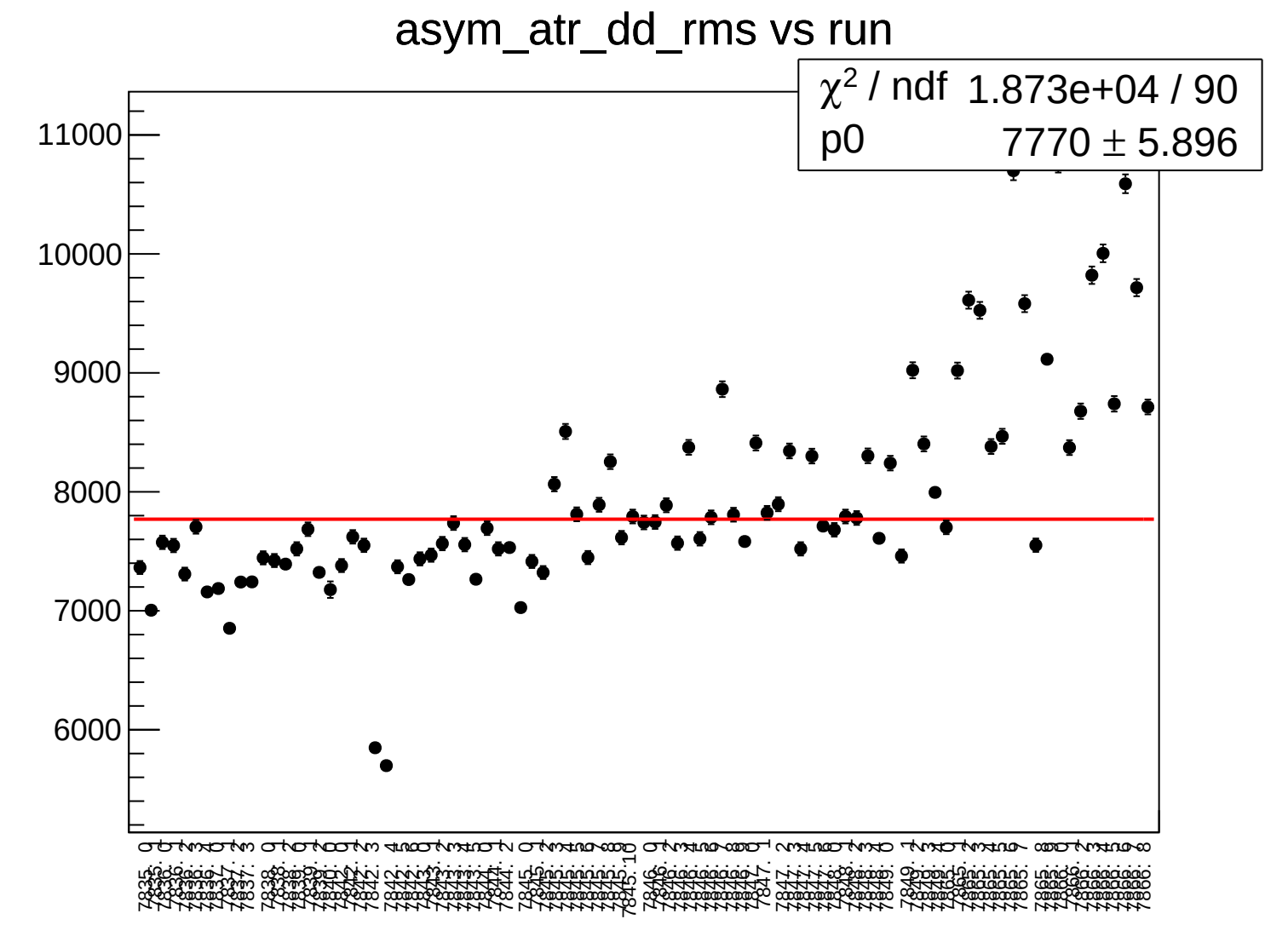

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.29 / 90
p0 1.109e+04 ± 8190
300
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean −49.03
Std Dev 0
2
1
0
−1
−2
−3

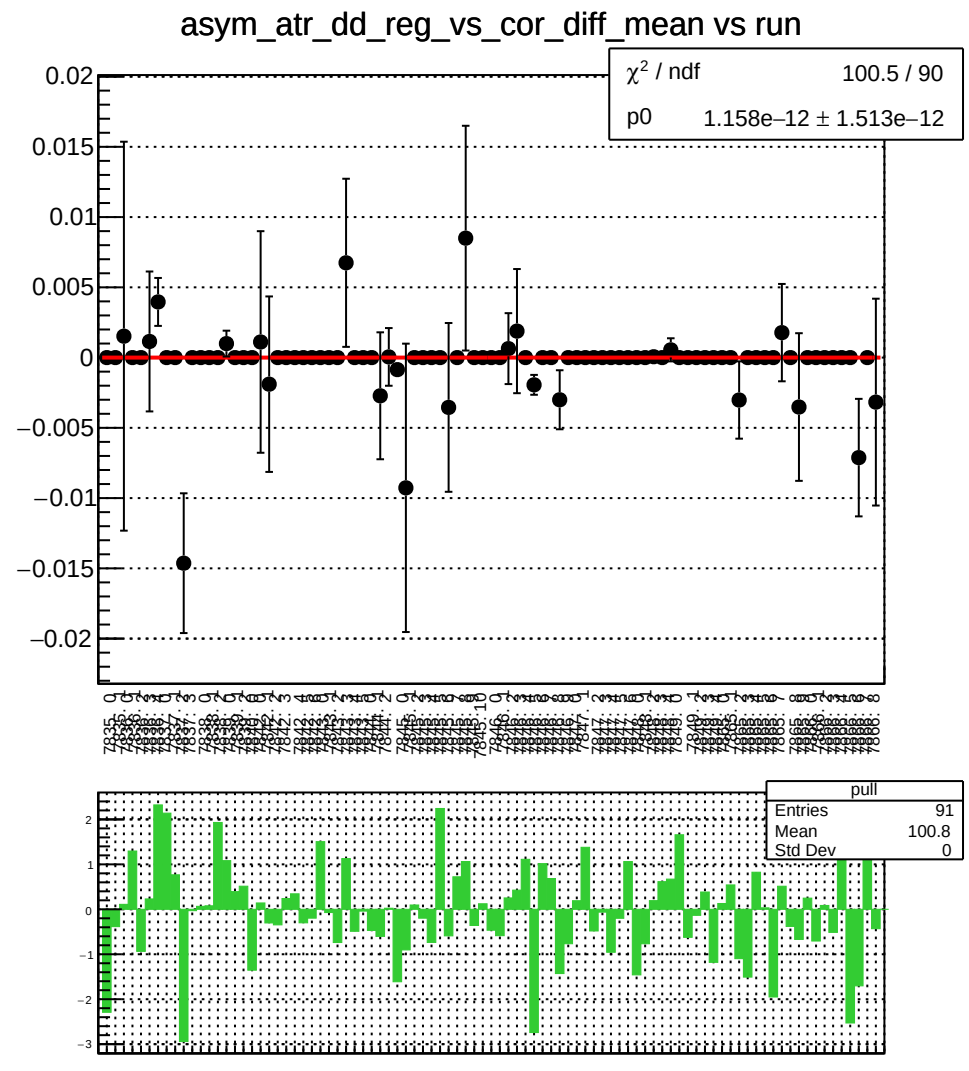

pull1D
Entries 91
Mean −0.01549
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

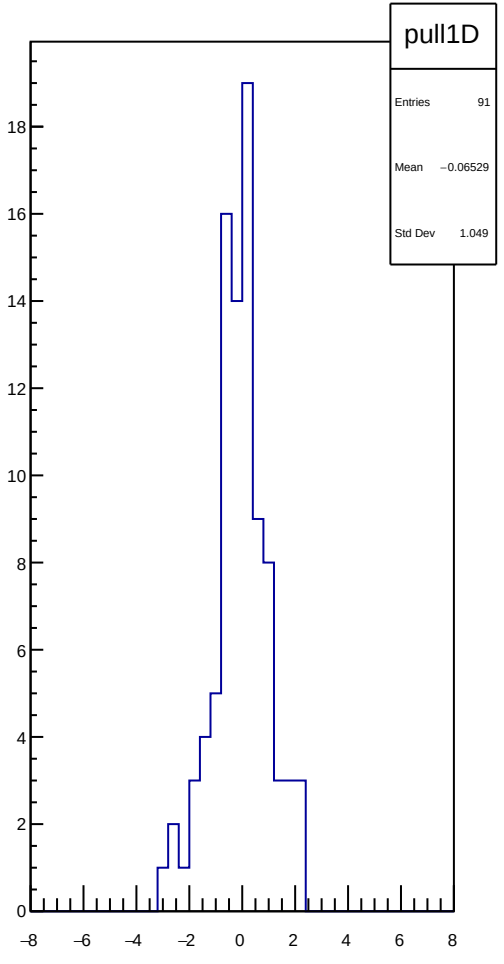

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.388e+04 / 90
p0 7620 ± 5.791
11000
10000
9000
8000
7000
6000
5000

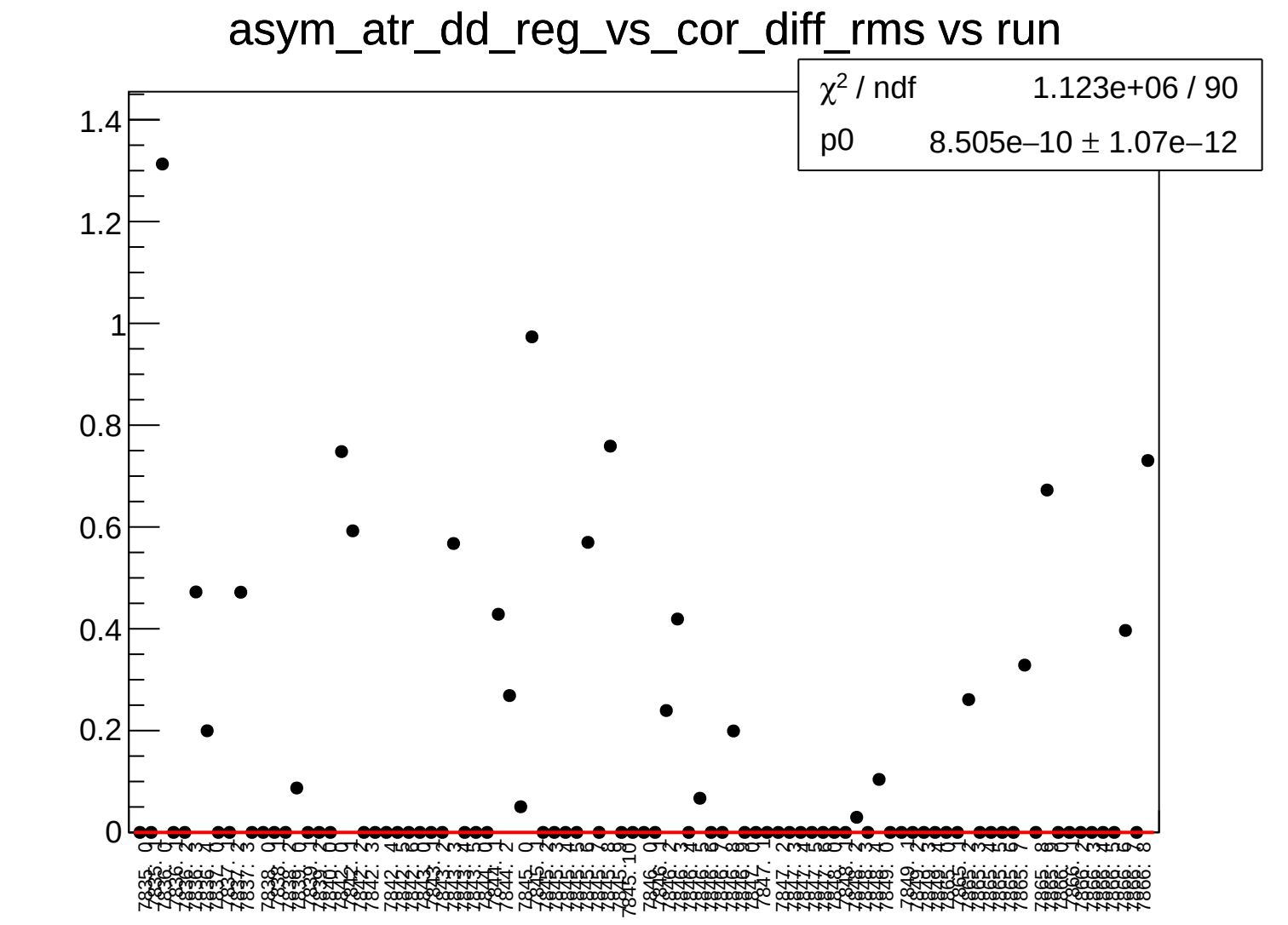

asym_atr_dd_mean vs run
×10^3
χ² / ndf 92.76 / 90
p0 −1.173e+04 ± 8339
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −9.467
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

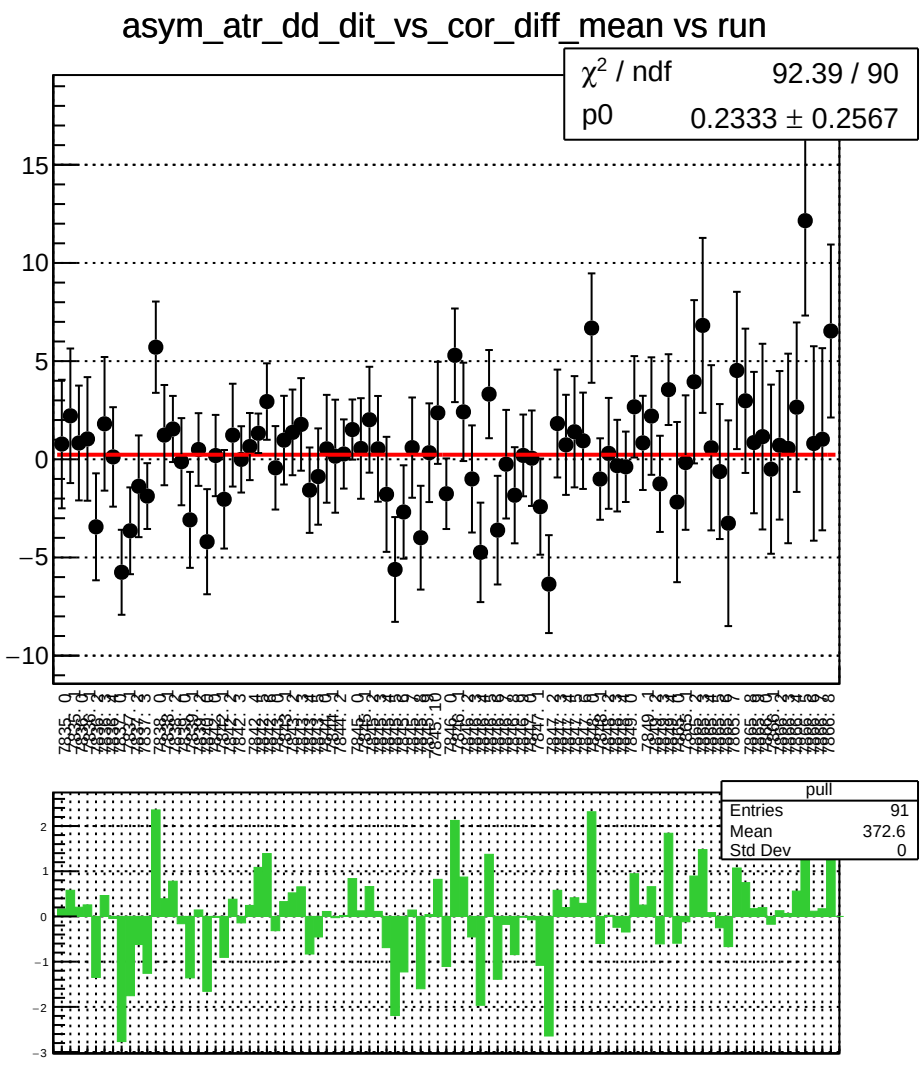

pull1D
Entries 91
Mean 0.01693
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

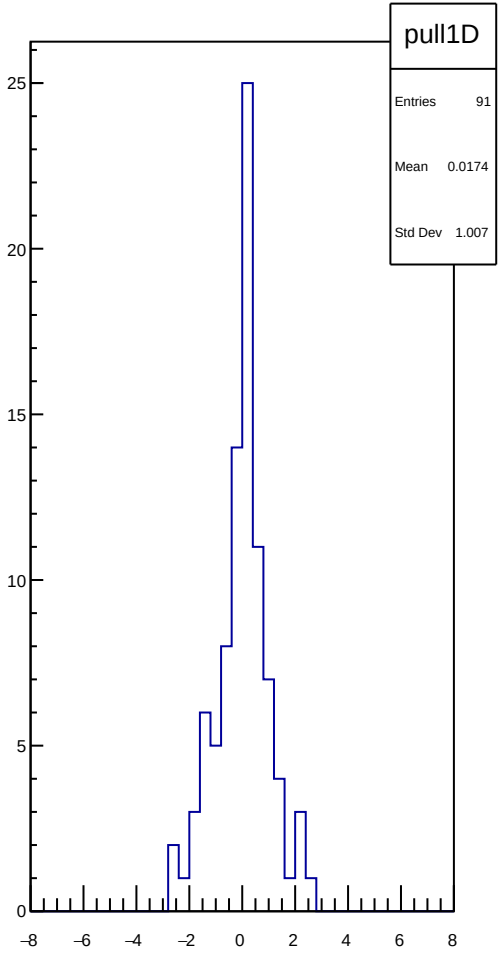

asym_atr_dd_rms vs run
χ^2 / ndf 1.873e+04 / 90
p0 7770 ± 5.896
11000
10000
9000
8000
7000
6000

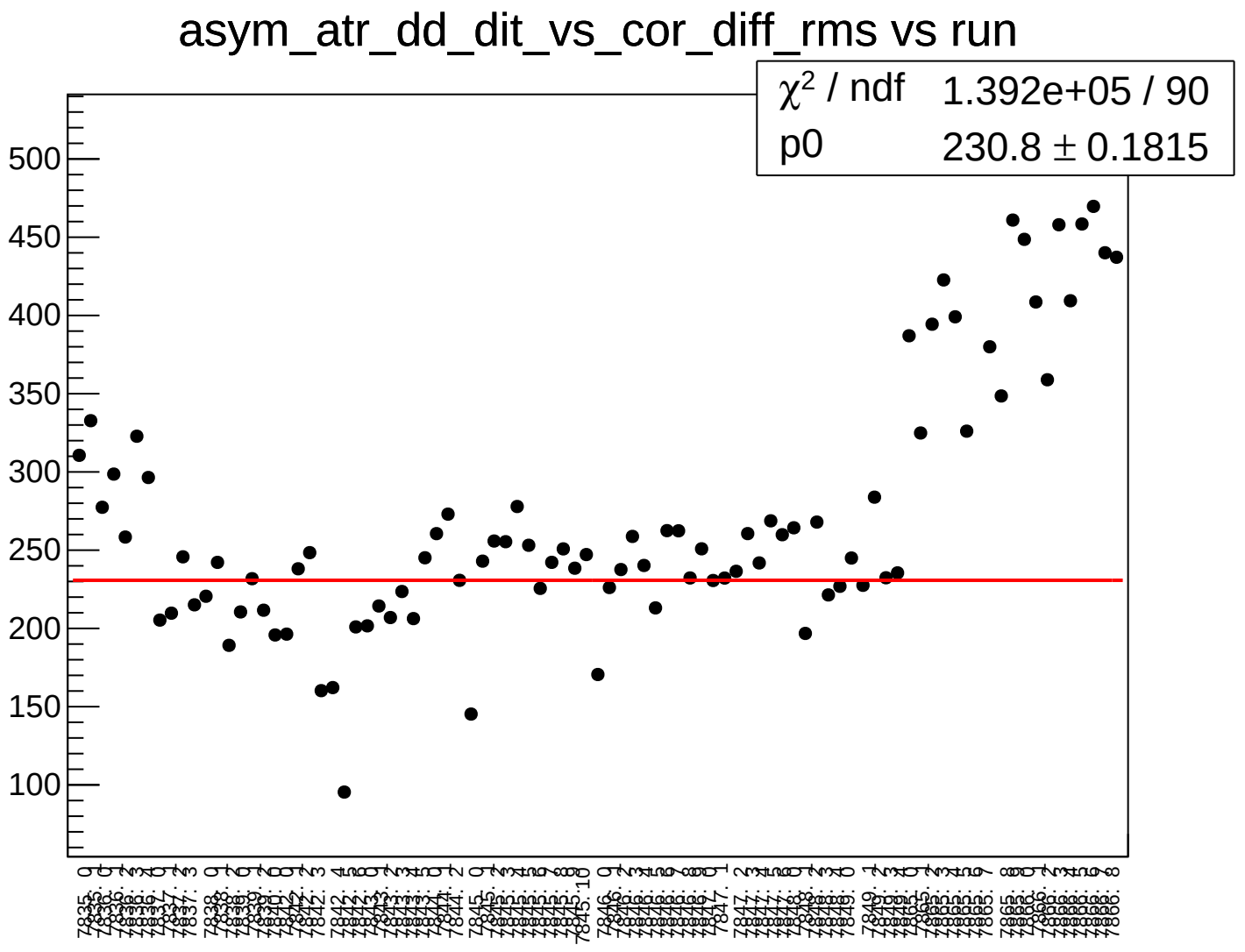

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 90
p0 1.158e−12 ± 1.513e−12
pull
Entries 91
Mean 100.8
Std Dev 0

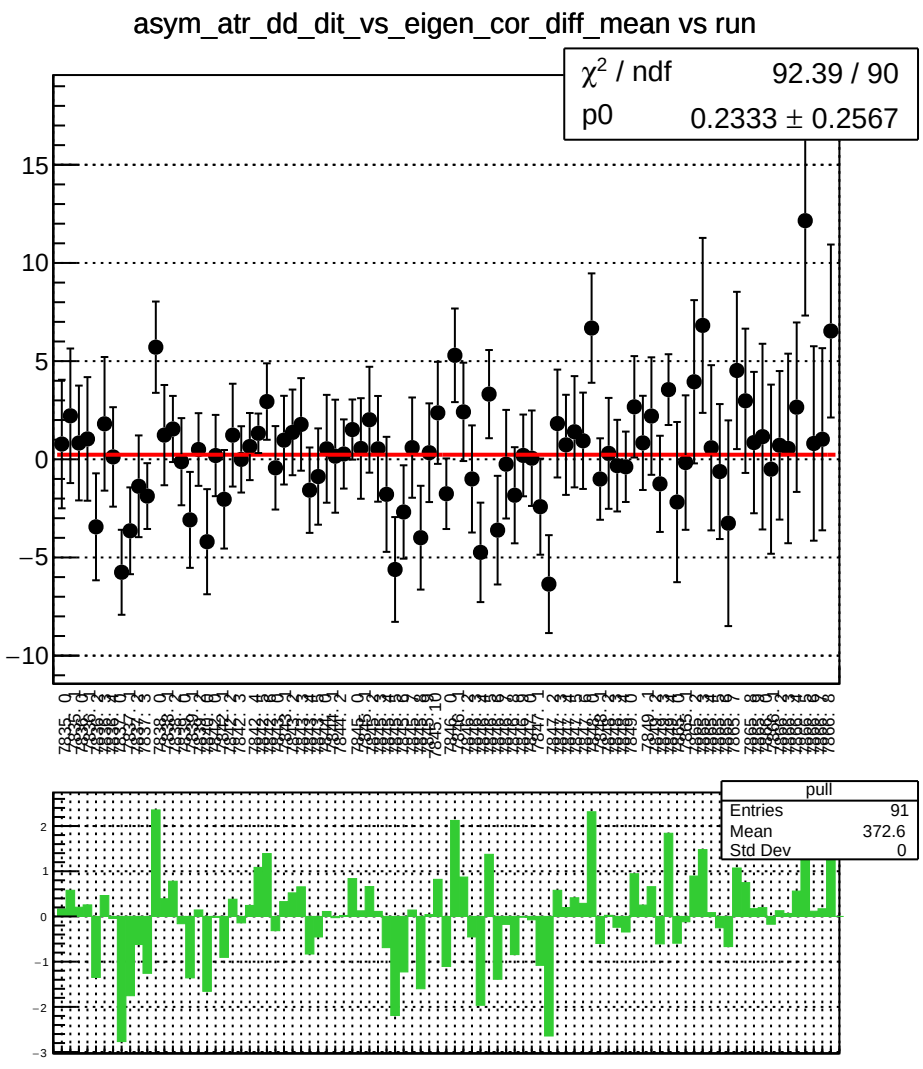

pull1D
Entries 91
Mean −0.06529
Std Dev 1.049

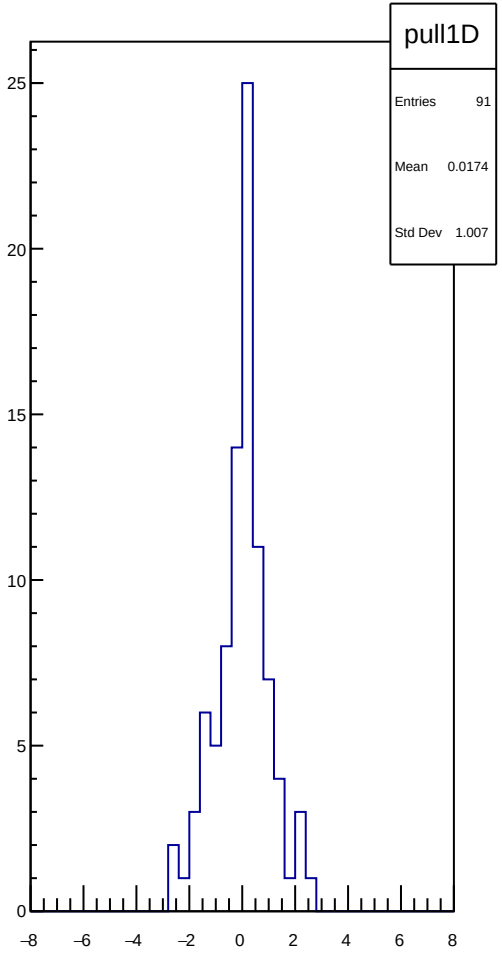

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.123e+06 / 90
p0 8.505e−10 ± 1.07e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

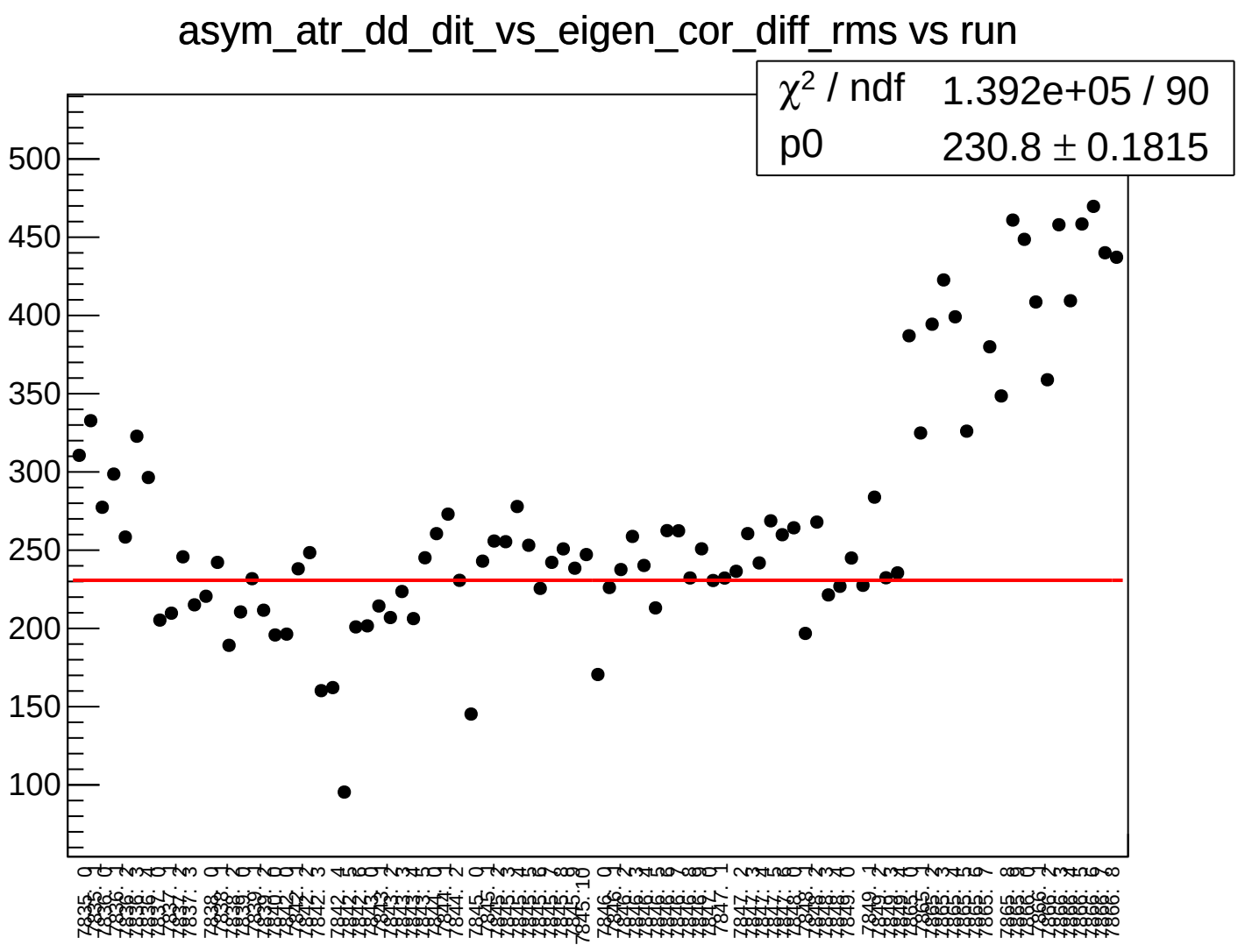

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 90
p0 0.2333 ± 0.2567
pull
Entries 91
Mean 372.6
Std Dev 0

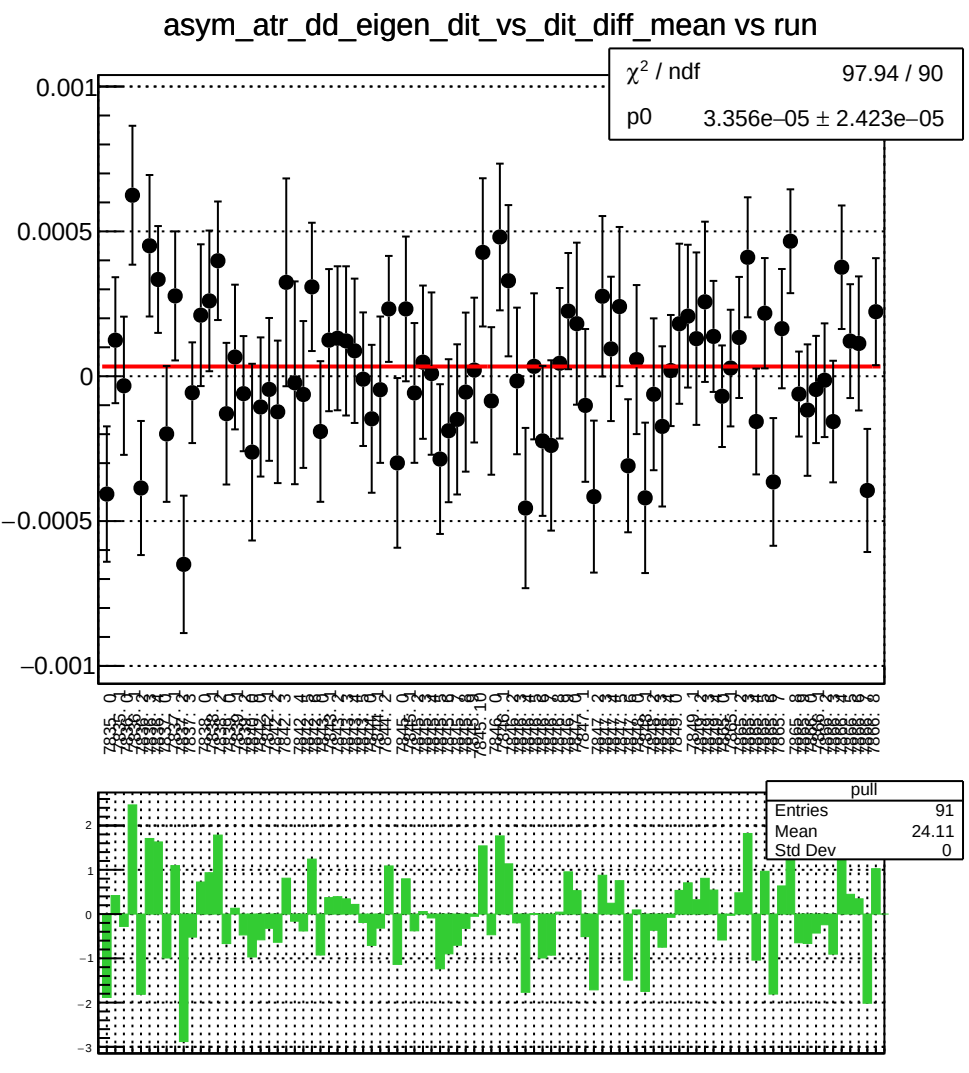

pull1D
Entries 91
Mean 0.0174
Std Dev 1.007

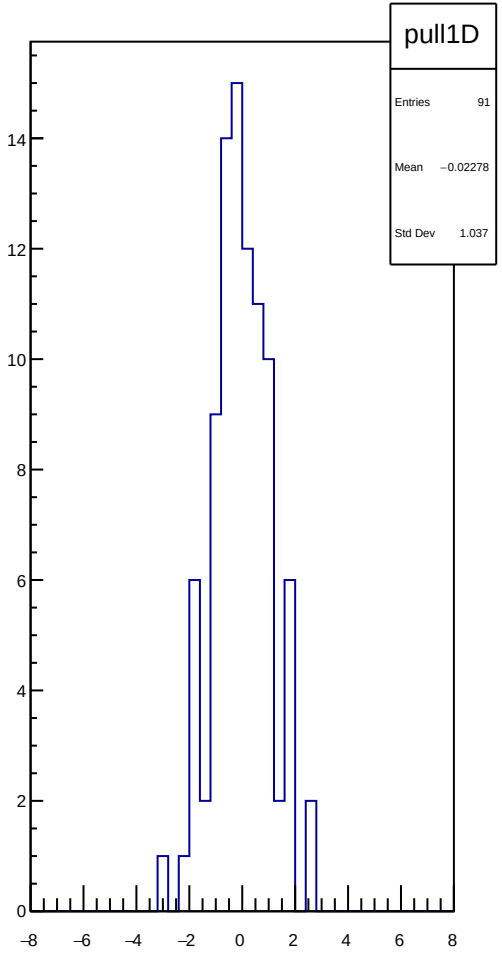

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 90
p0 230.8 ± 0.1815
500
450
400
350
300
250
200
150
100

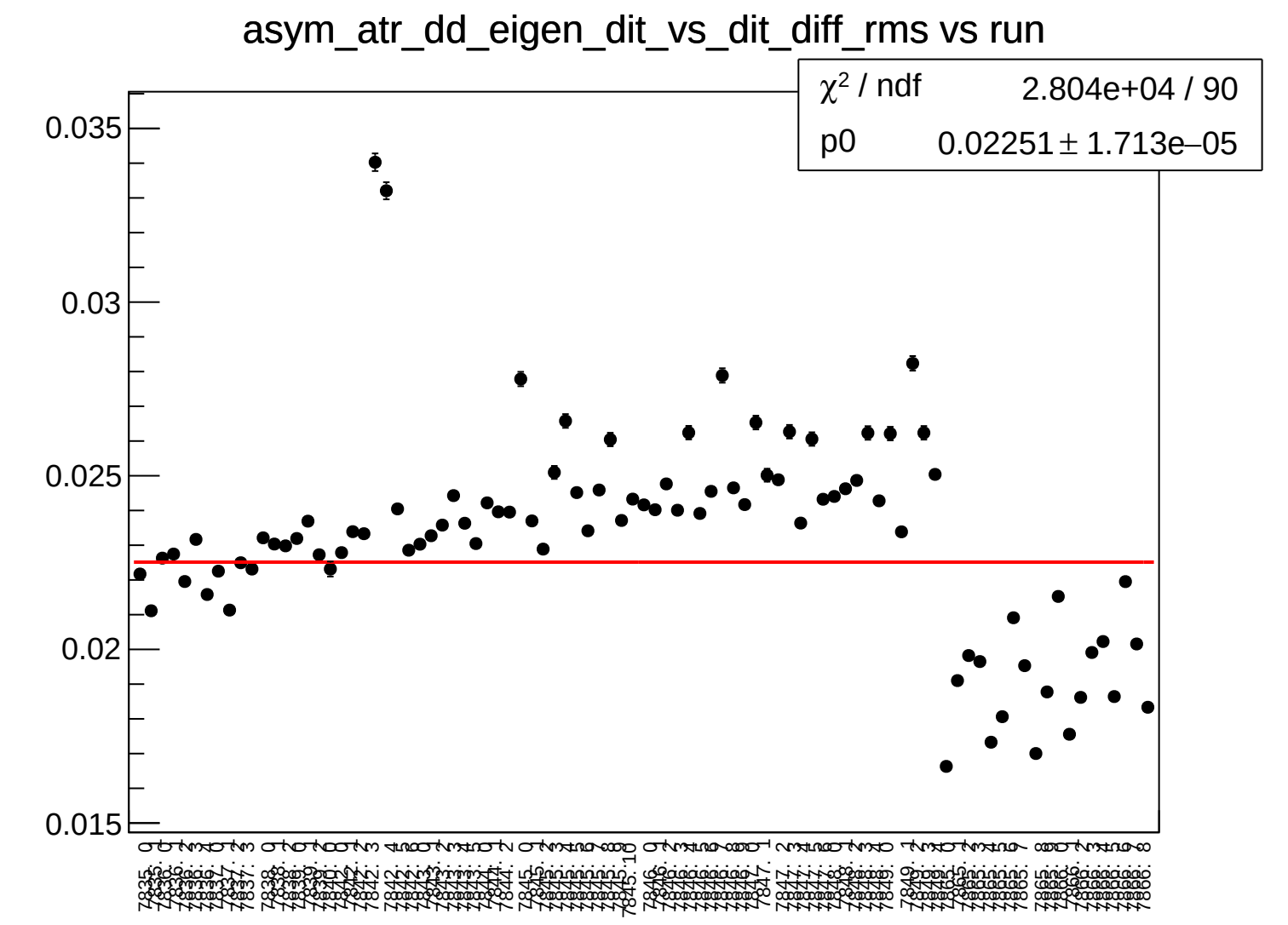

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 90
p0 0.2333 ± 0.2567
pull
Entries 91
Mean 372.6
Std Dev 0

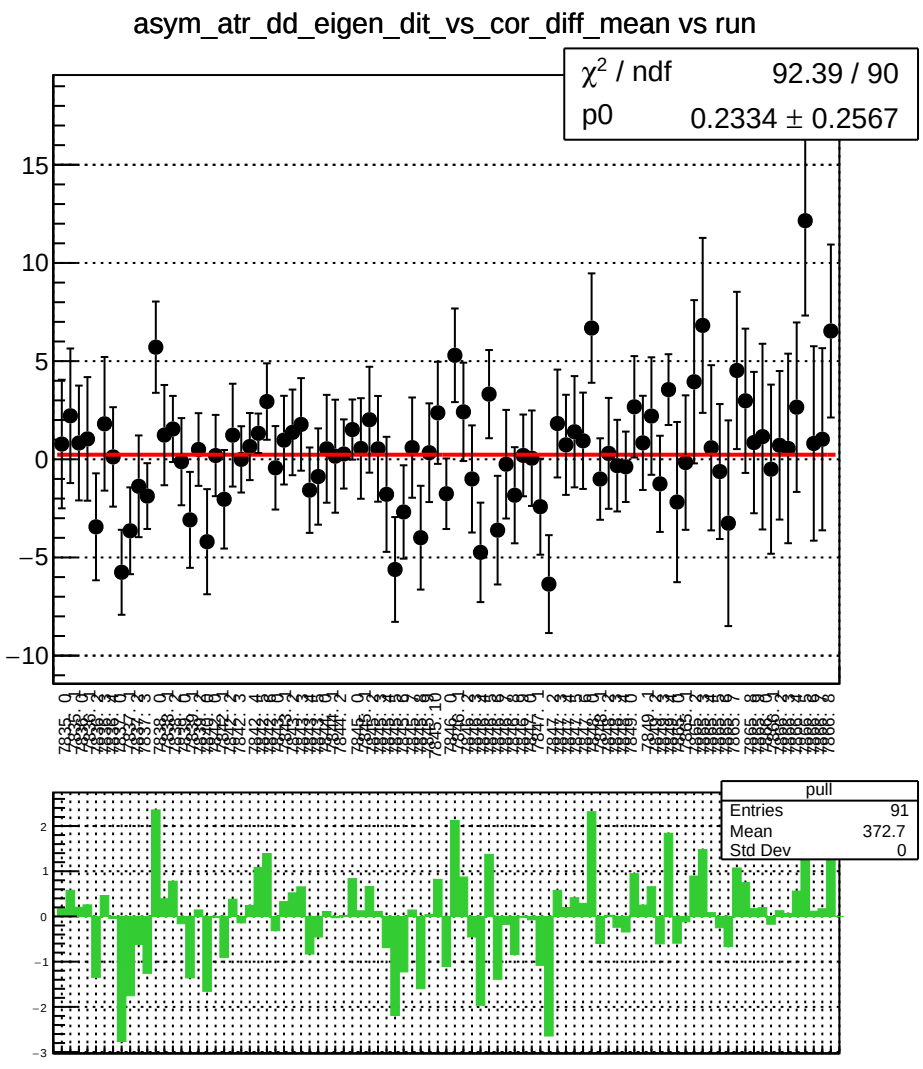

pull1D
Entries 91
Mean 0.0174
Std Dev 1.007

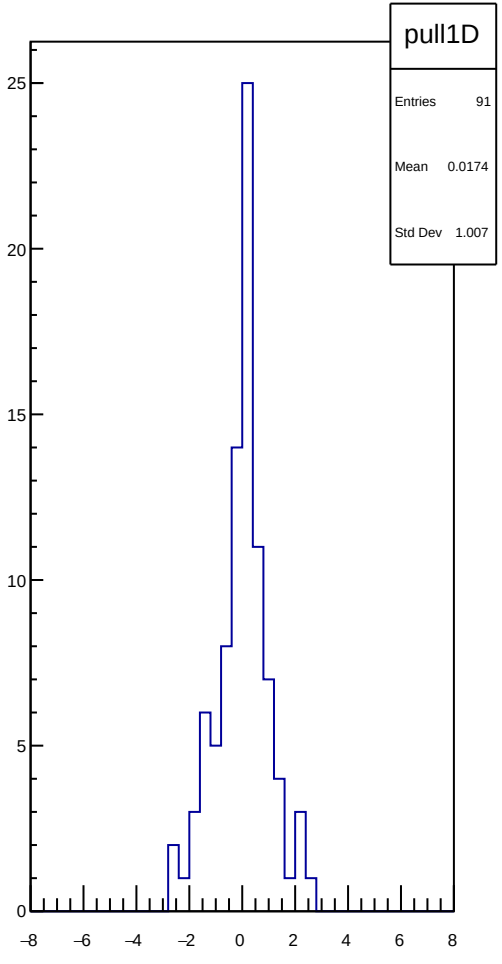

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 90
p0 230.8 ± 0.1815
500
450
400
350
300
250
200
150
100

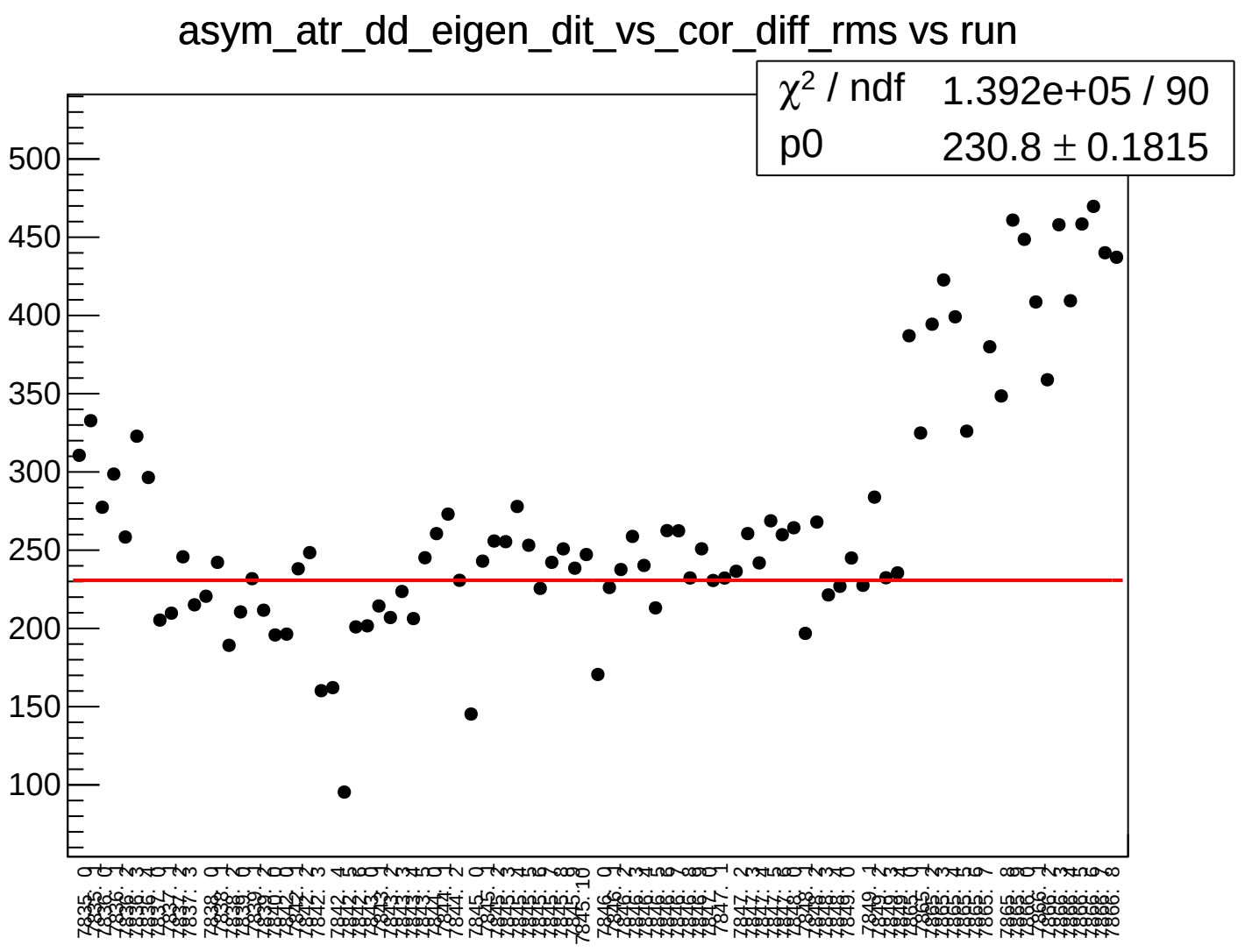

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.94 / 90
p0 3.356e−05 ± 2.423e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 24.11
Std Dev 0
2
1
0
−1
−2
−3

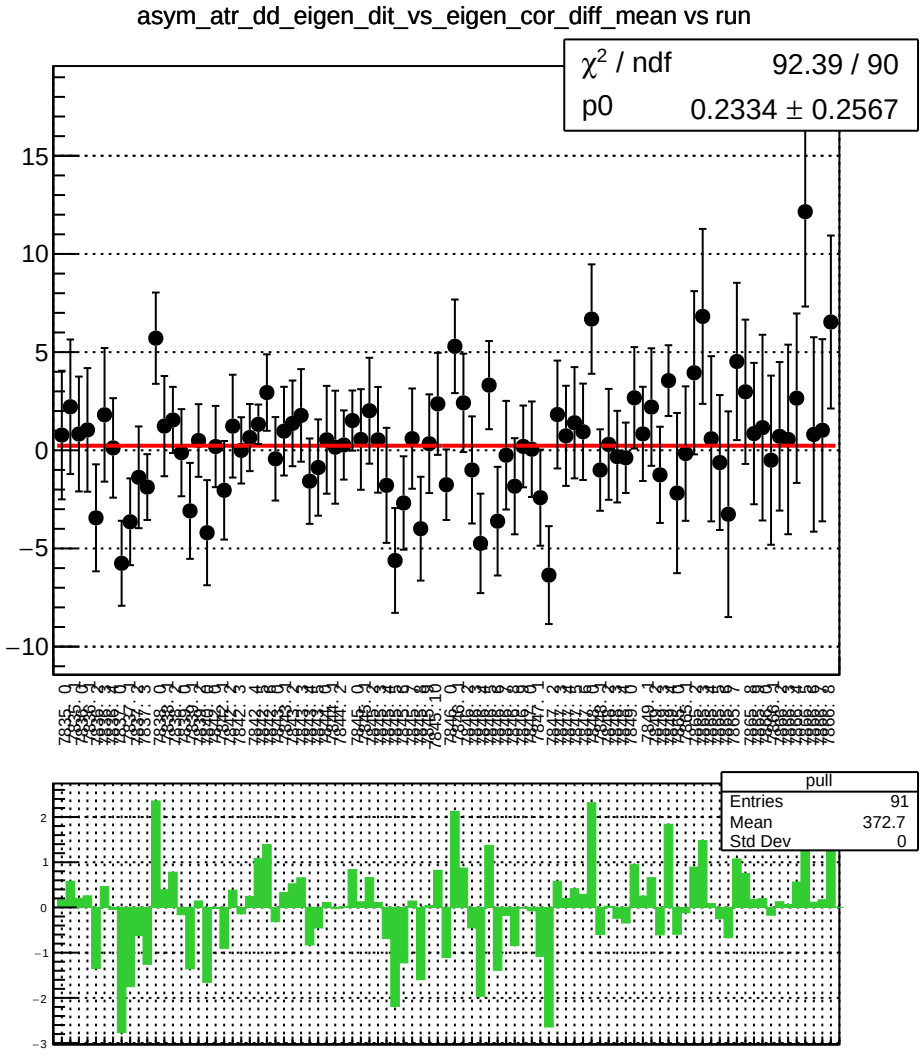

pull1D
Entries 91
Mean −0.02278
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

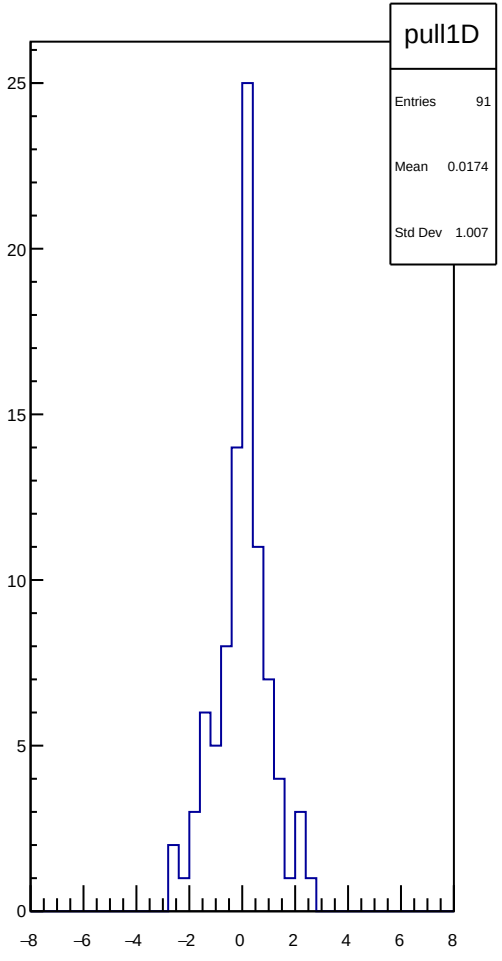

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.804e+04 / 90
p0 0.02251 ± 1.713e−05
0.035
0.03
0.025
0.02
0.015

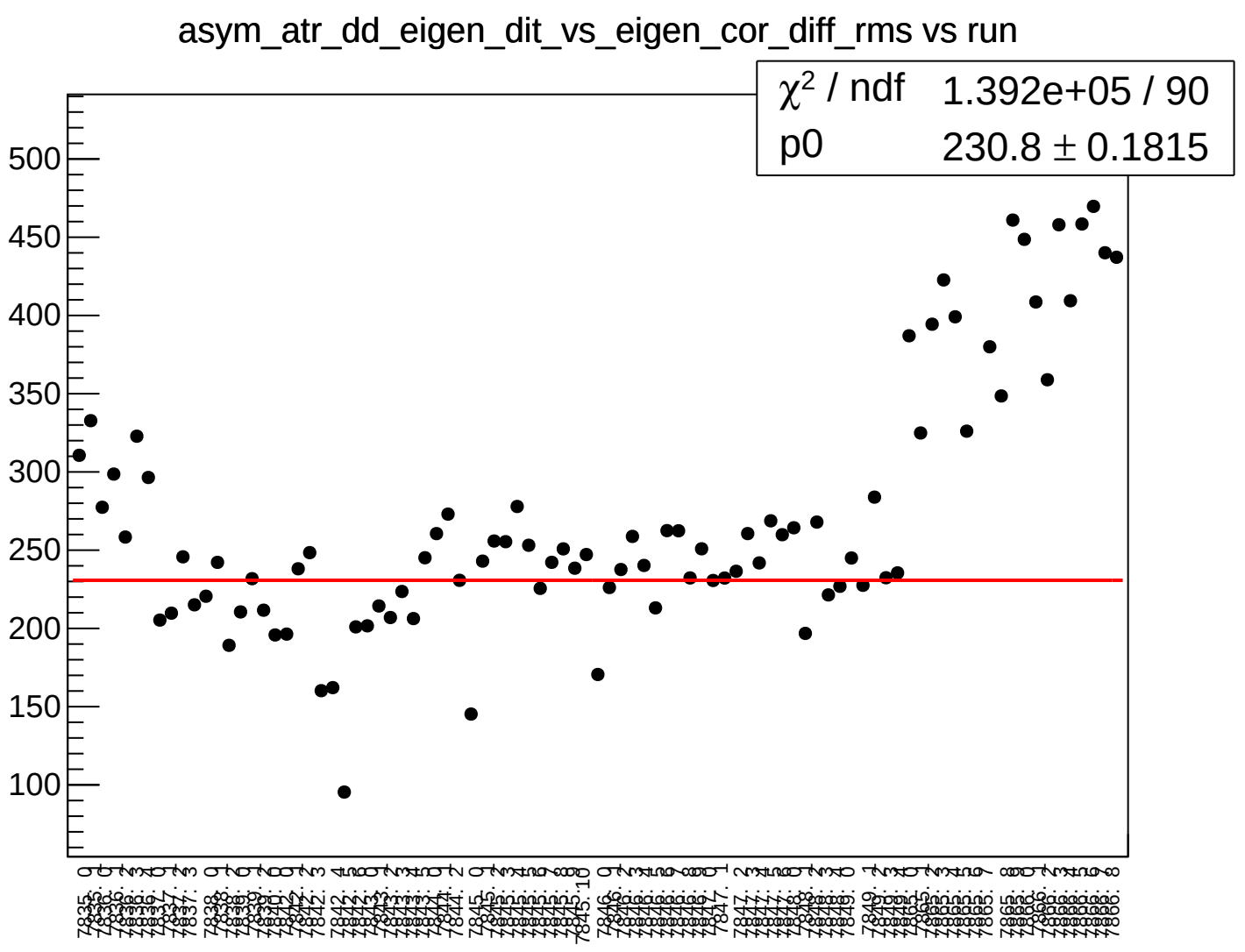

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 90
p0 0.2334 ± 0.2567
pull
Entries 91
Mean 372.7
Std Dev 0

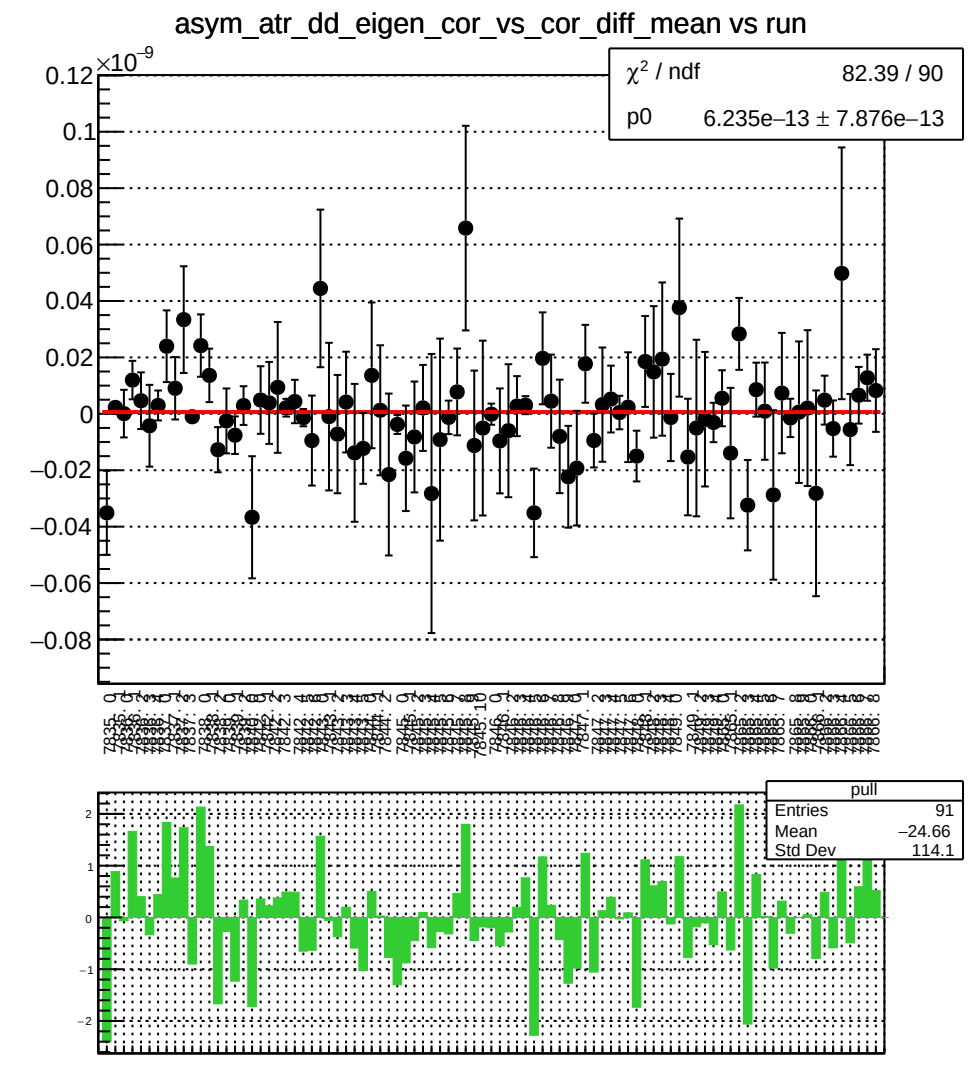

pull1D
Entries 91
Mean 0.0174
Std Dev 1.007

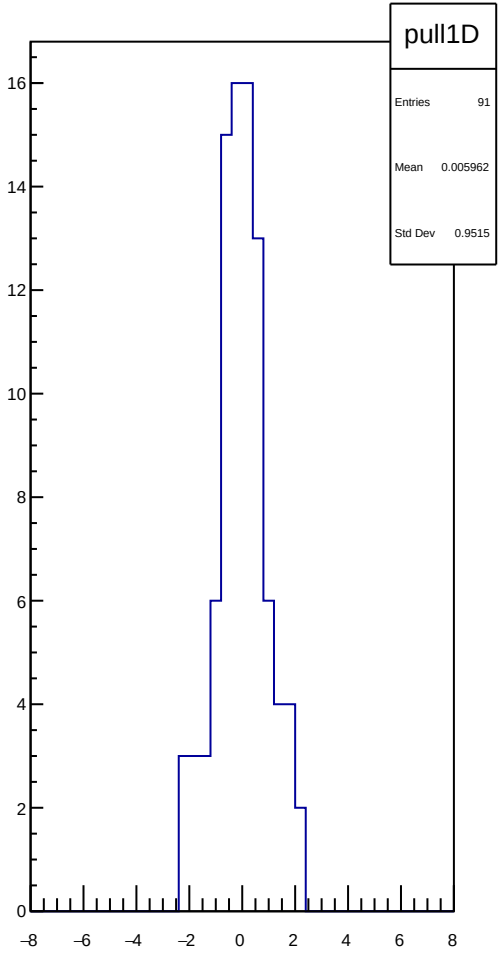

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 90
p0 230.8 ± 0.1815
500
450
400
350
300
250
200
150
100

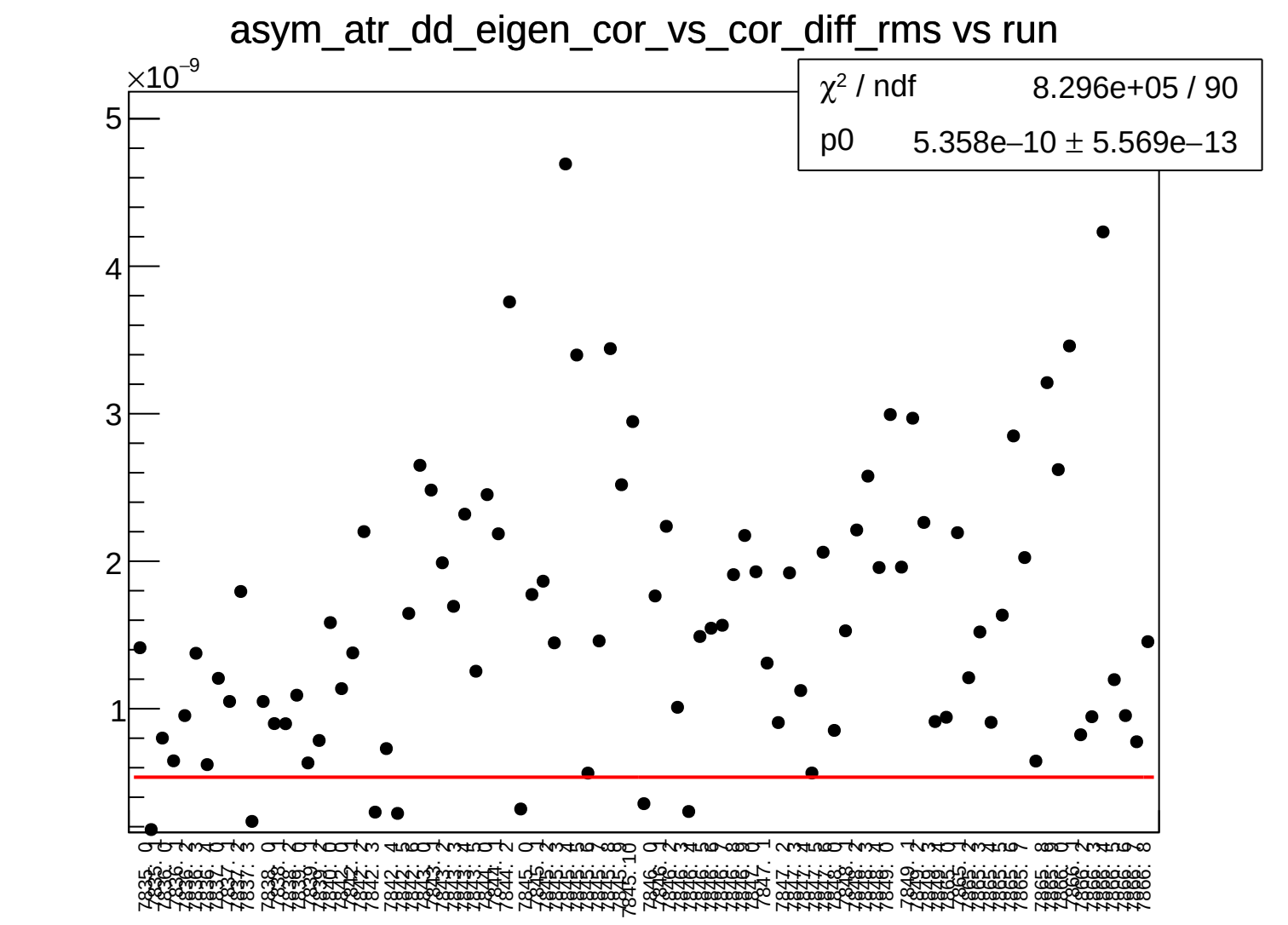

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 90
p0 0.2334 ± 0.2567
pull
Entries 91
Mean 372.7
Std Dev 0

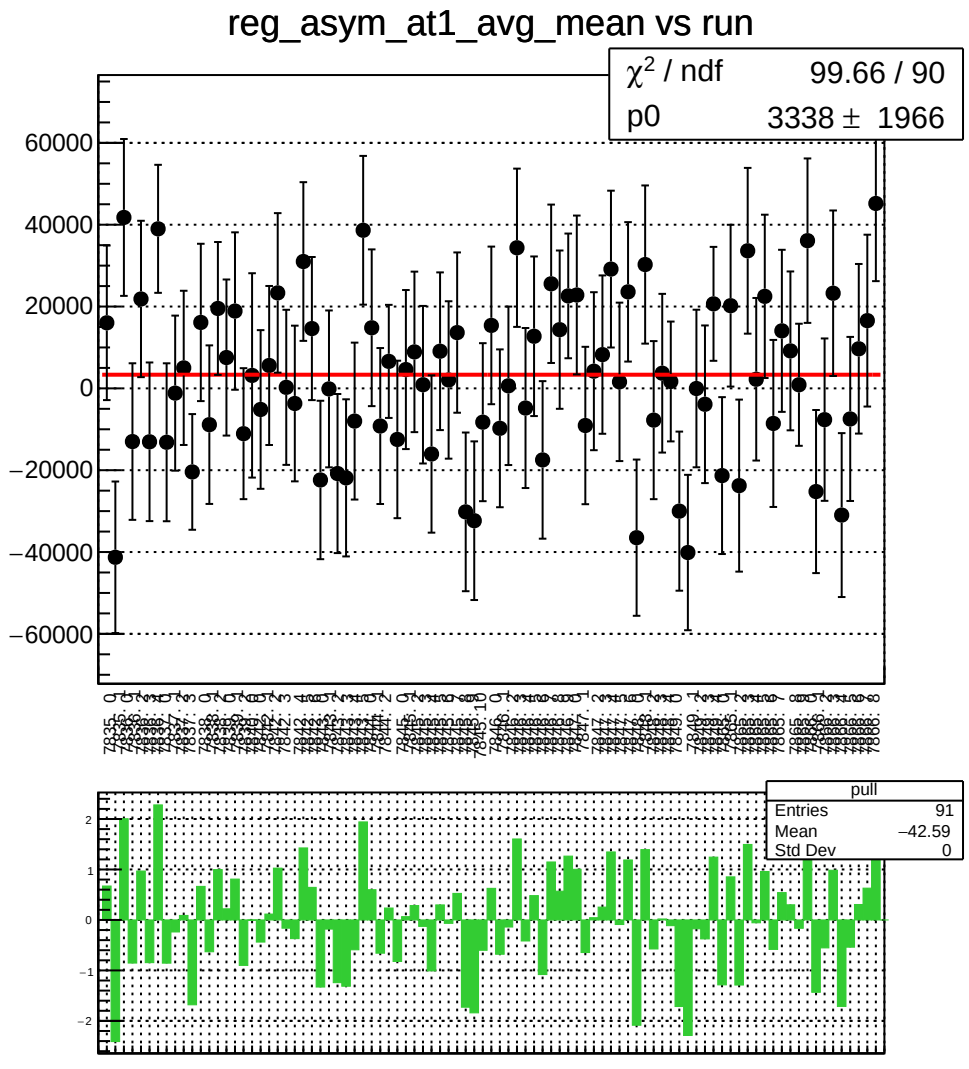

pull1D
Entries 91
Mean 0.0174
Std Dev 1.007

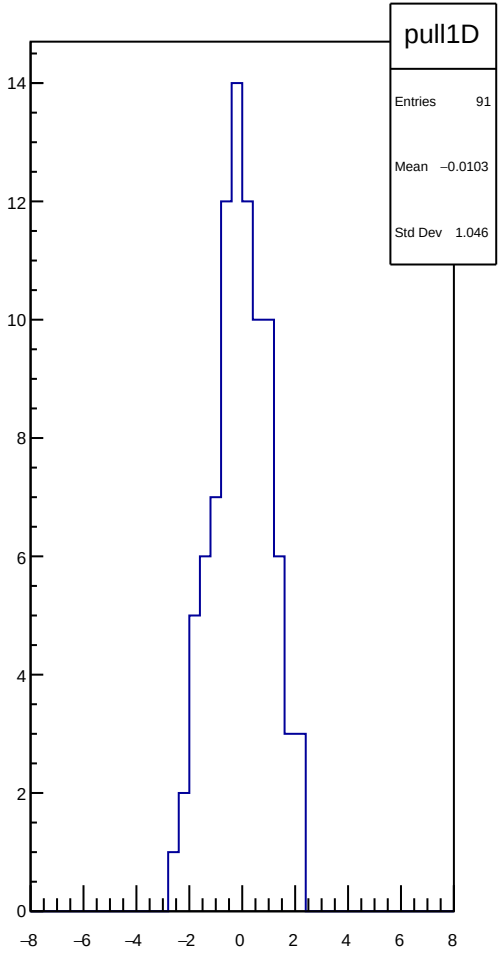

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 90
p0 230.8 ± 0.1815
500
450
400
350
300
250
200
150
100

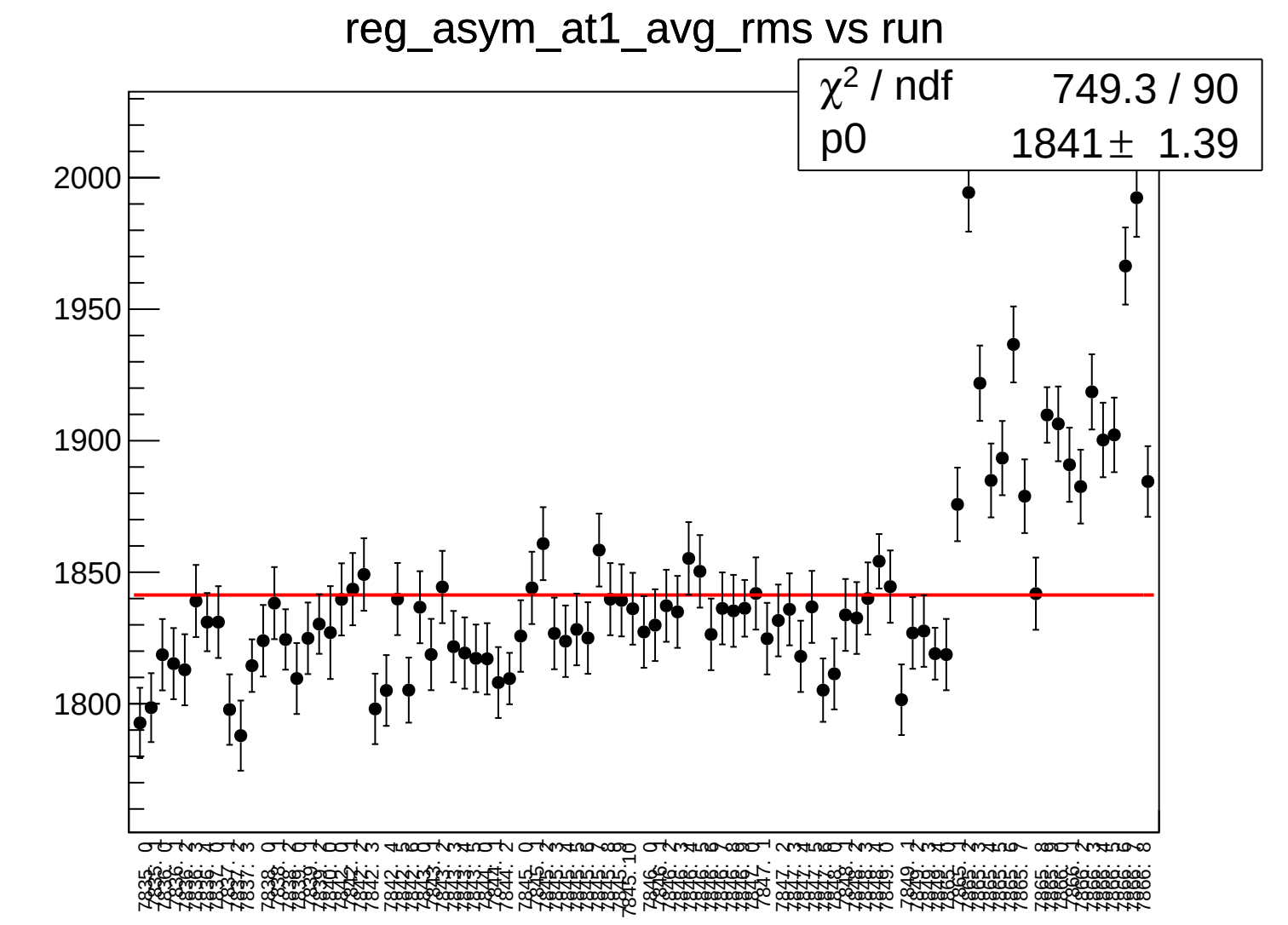

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 82.39 / 90
p0 6.235e−13 ± 7.876e−13
pull
Entries 91
Mean −24.66
Std Dev 114.1

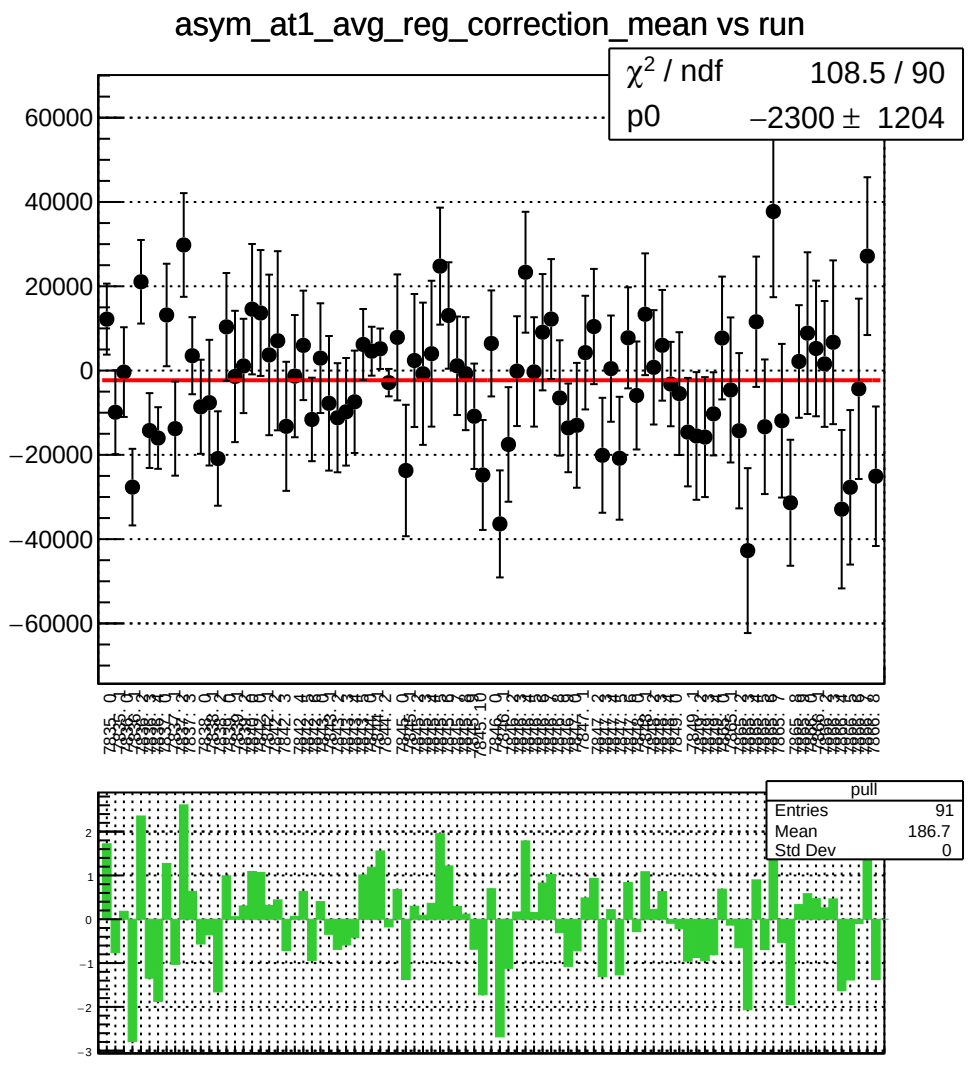

pull1D
Entries 91
Mean 0.005962
Std Dev 0.9515

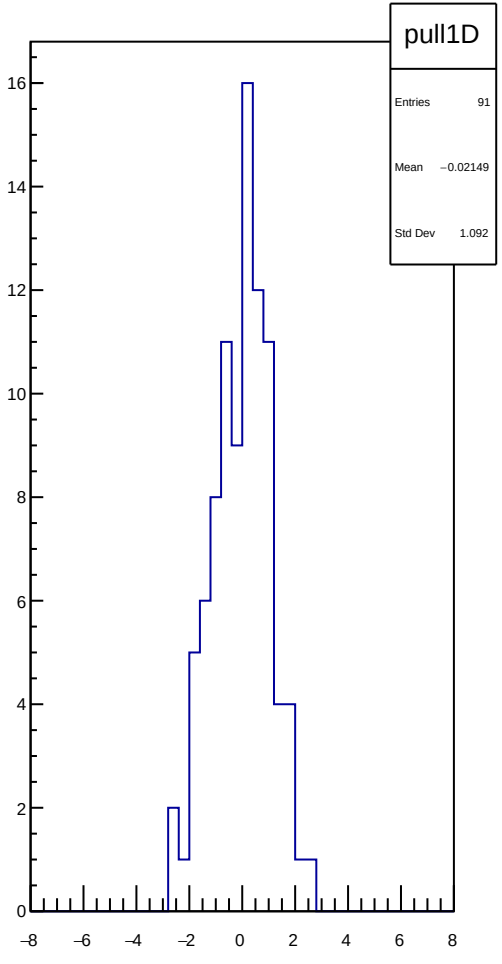

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.296e+05 / 90
p0 5.358e−10 ± 5.569e−13
5
4
3
2
1

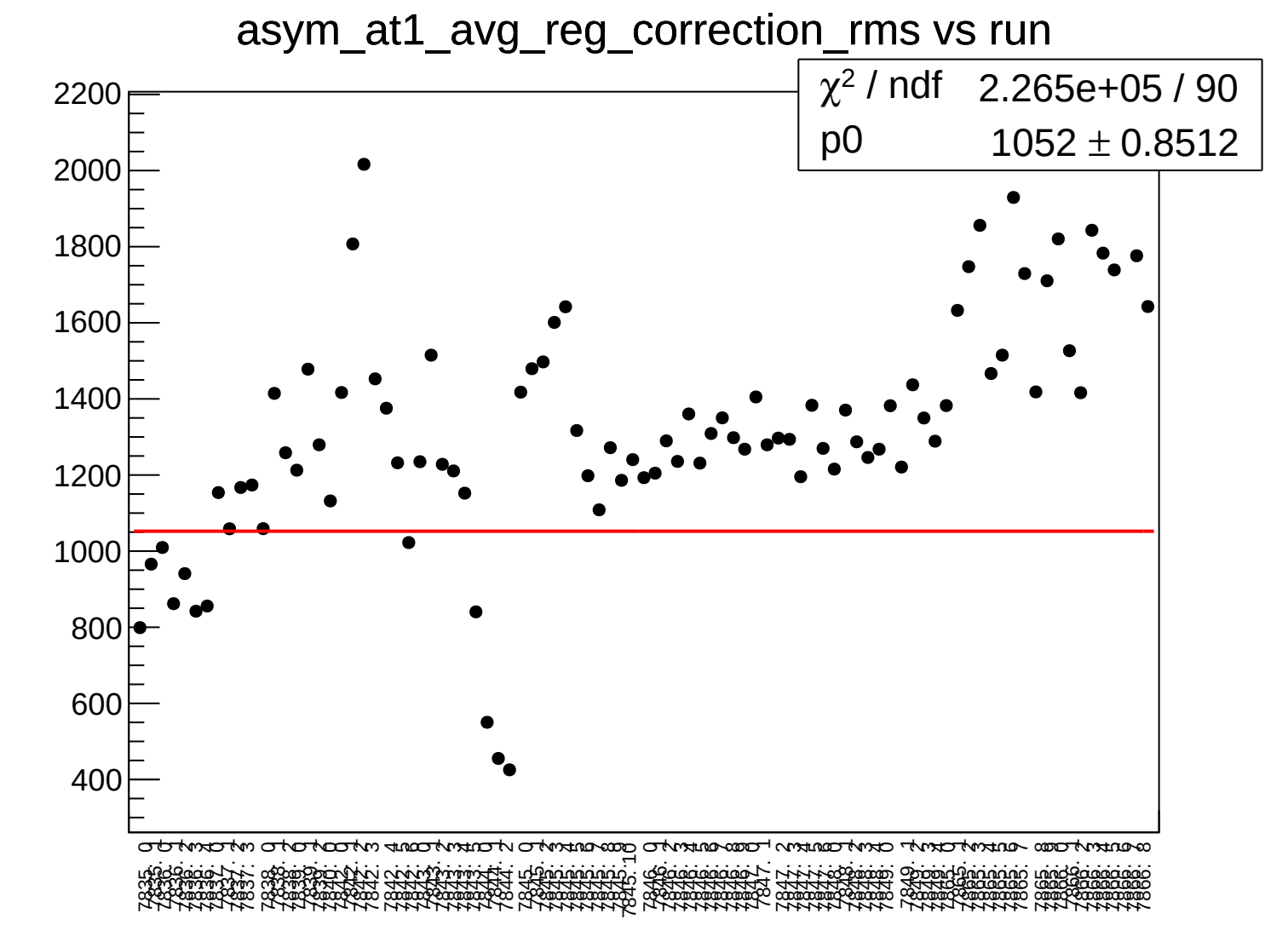

reg_asym_at1_avg_mean vs run
χ² / ndf 99.66 / 90
p0 3338 ± 1966
pull
Entries 91
Mean −42.59
Std Dev 0

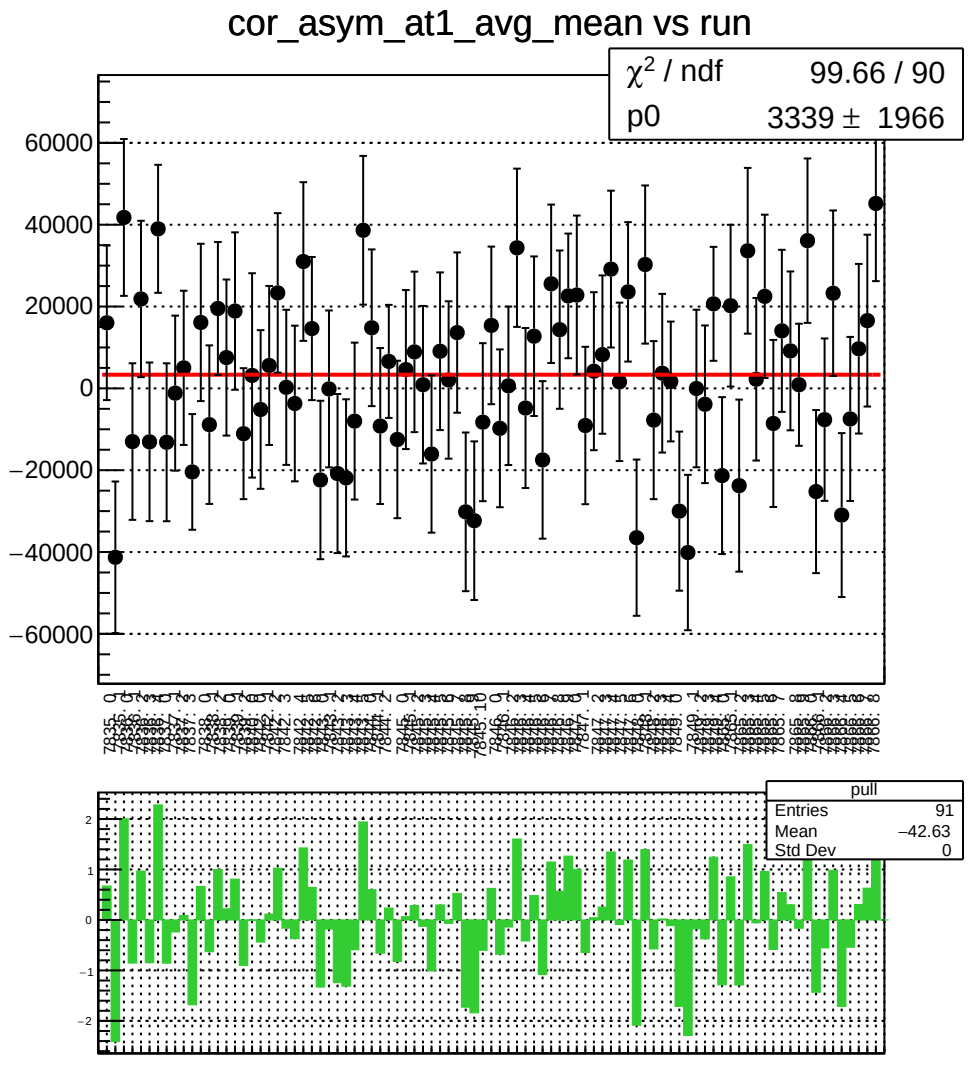

pull1D
Entries 91
Mean −0.0103
Std Dev 1.046

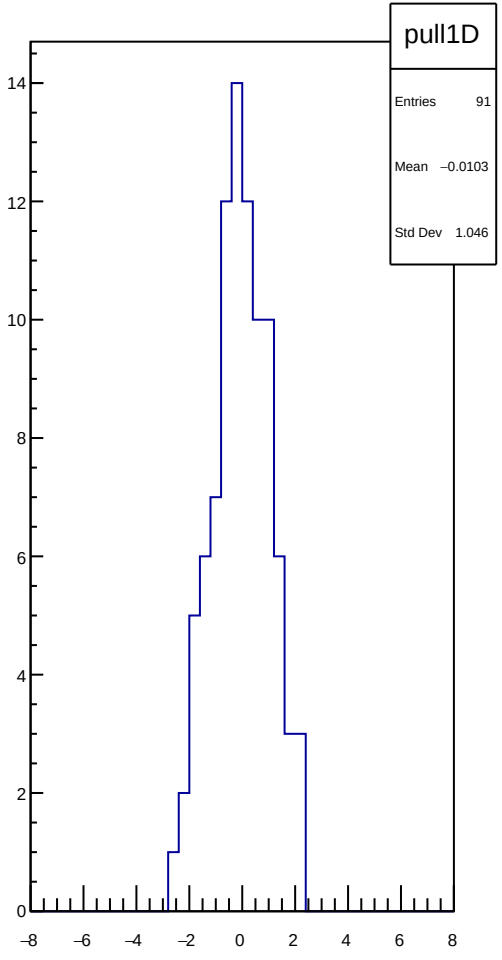

reg_asym_at1_avg_rms vs run
χ² / ndf 749.3 / 90
p0 1841 ± 1.39
2000
1950
1900
1850
1800

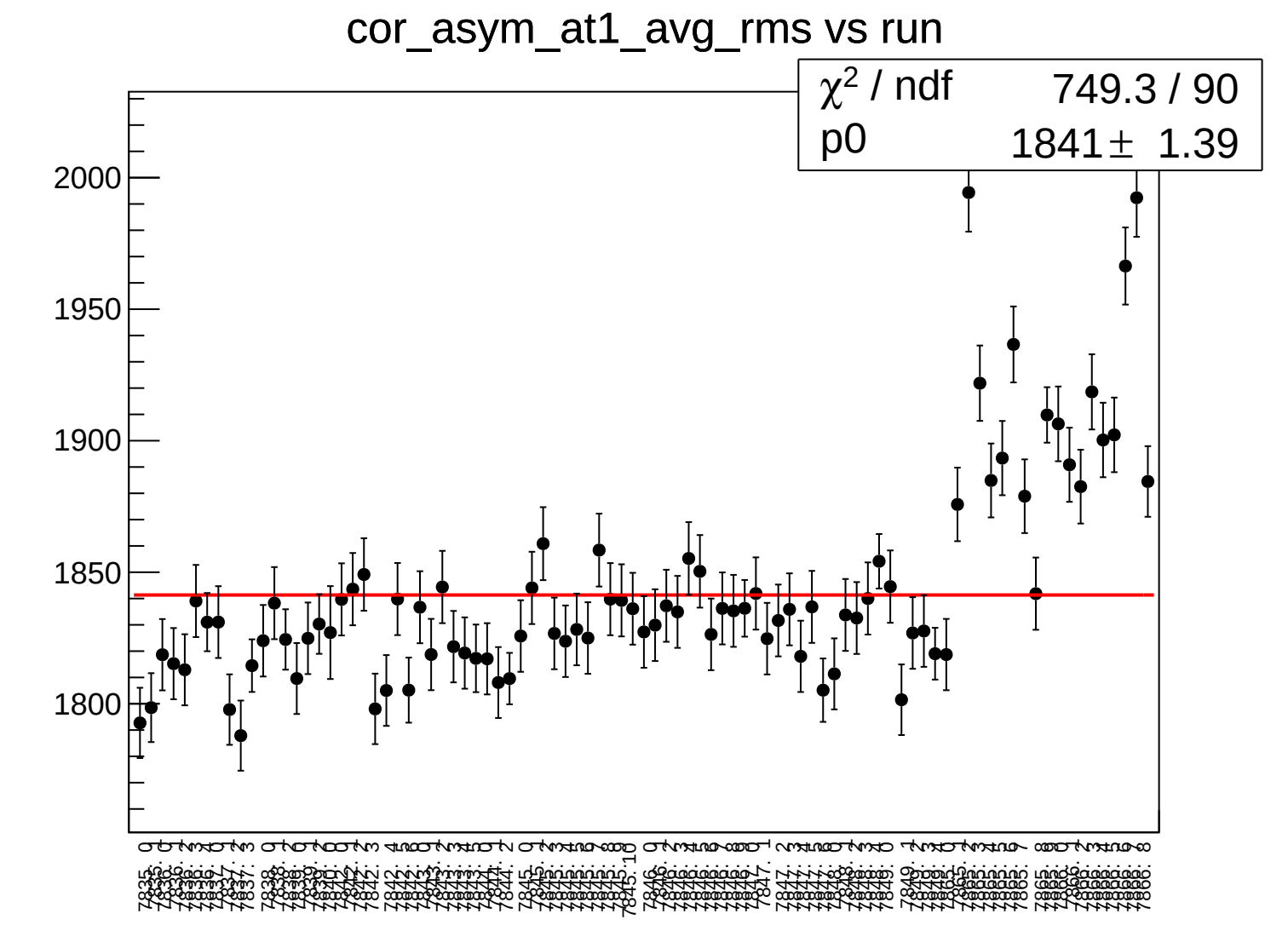

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 108.5 / 90
p0 −2300 ± 1204
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 186.7
Std Dev 0
2
1
0
−1
−2
−3

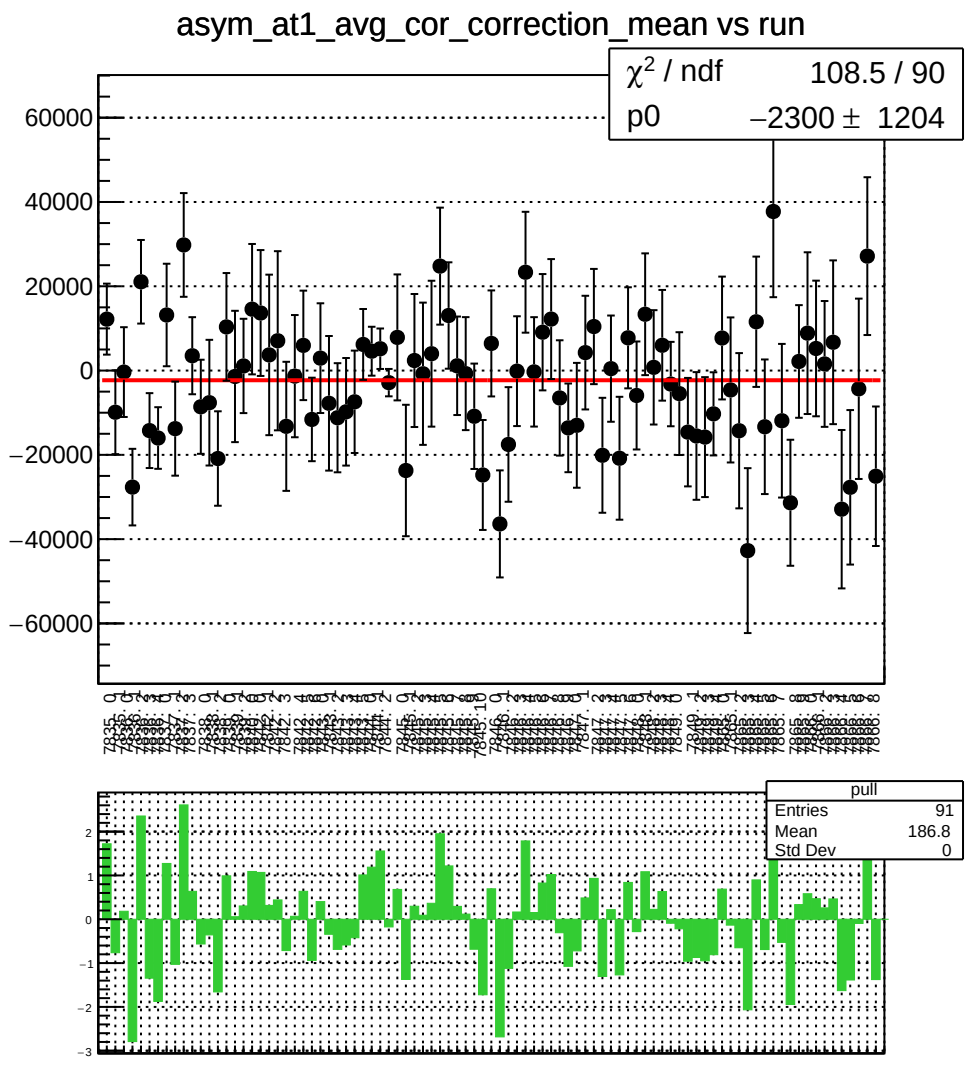

pull1D
Entries 91
Mean −0.02149
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

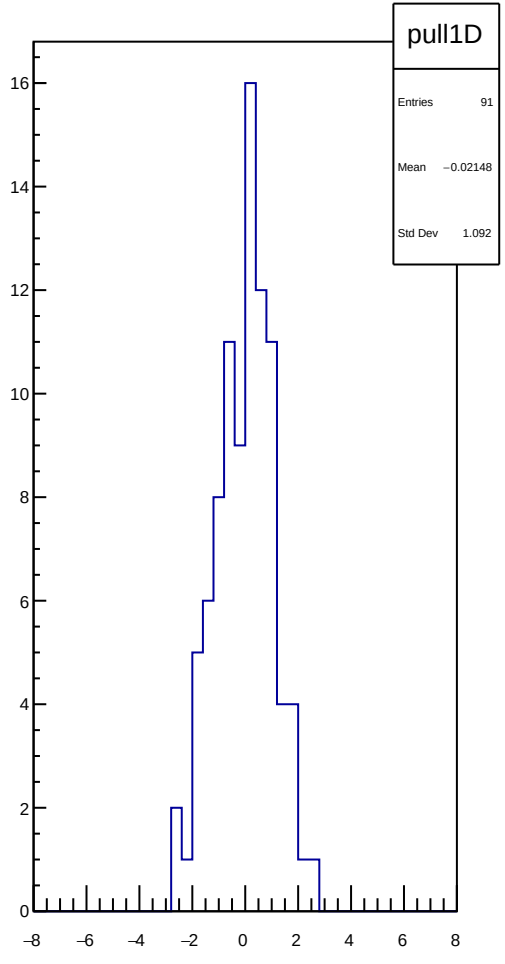

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.265e+05 / 90
p0 1052 ± 0.8512
2200
2000
1800
1600
1400
1200
1000
800
600
400

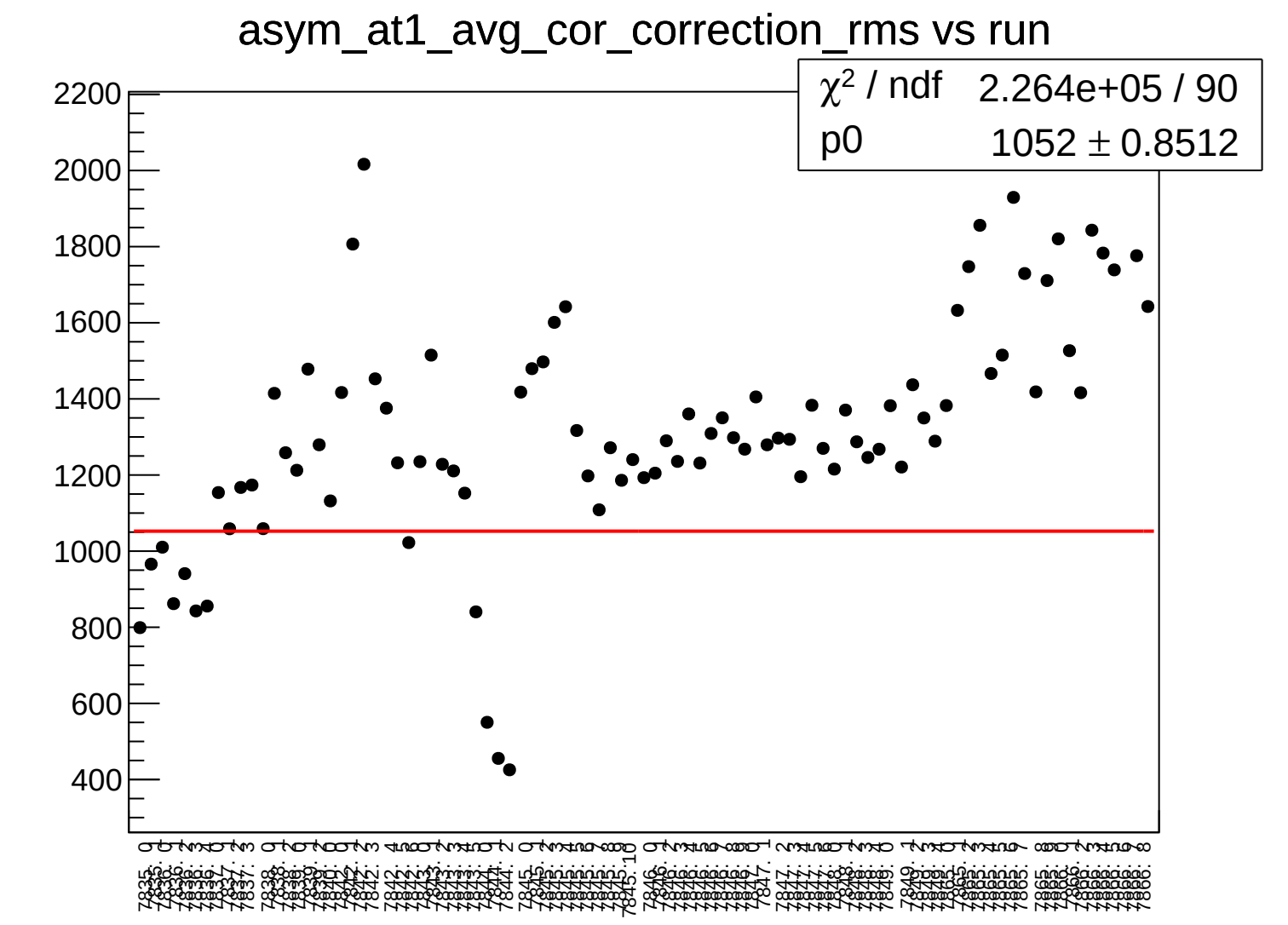

cor_asym_at1_avg_mean vs run
χ² / ndf 99.66 / 90
p0 3339 ± 1966
pull
Entries 91
Mean −42.63
Std Dev 0

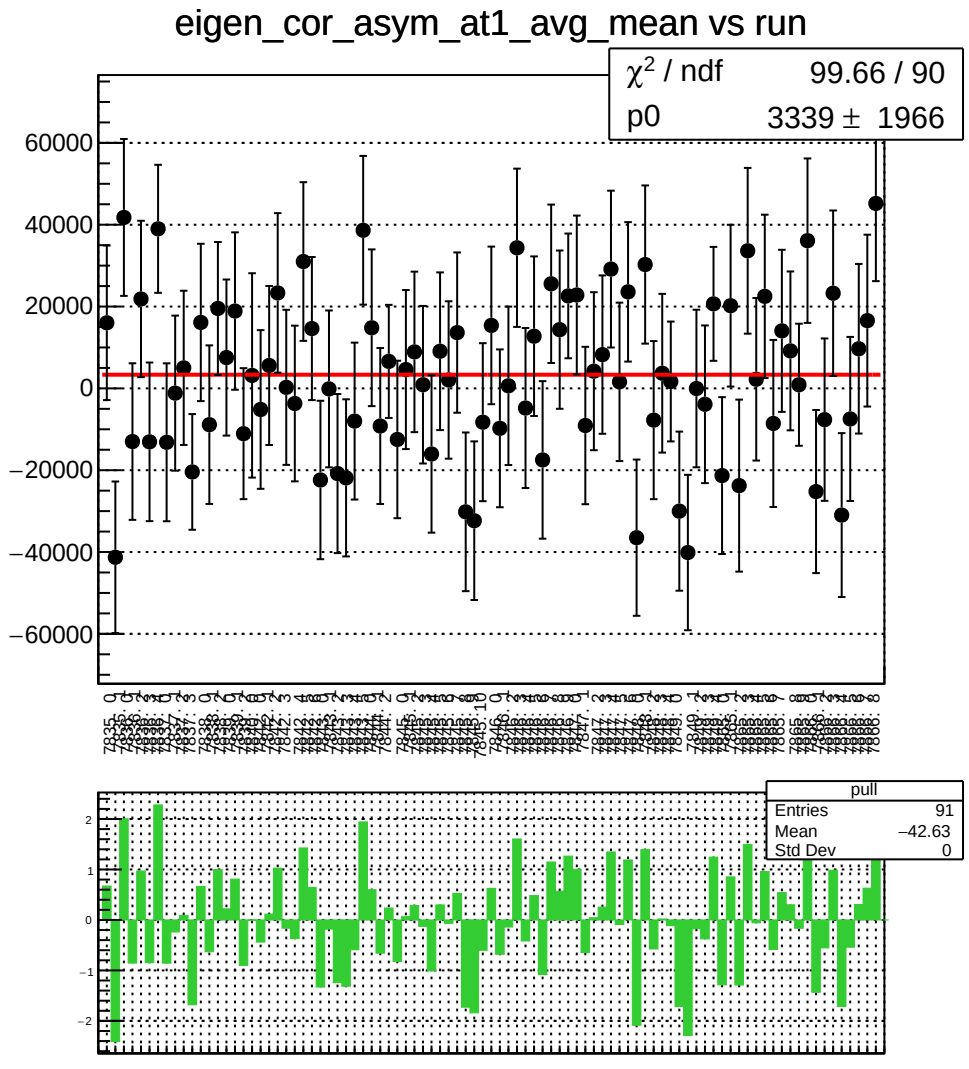

pull1D
Entries 91
Mean −0.0103
Std Dev 1.046

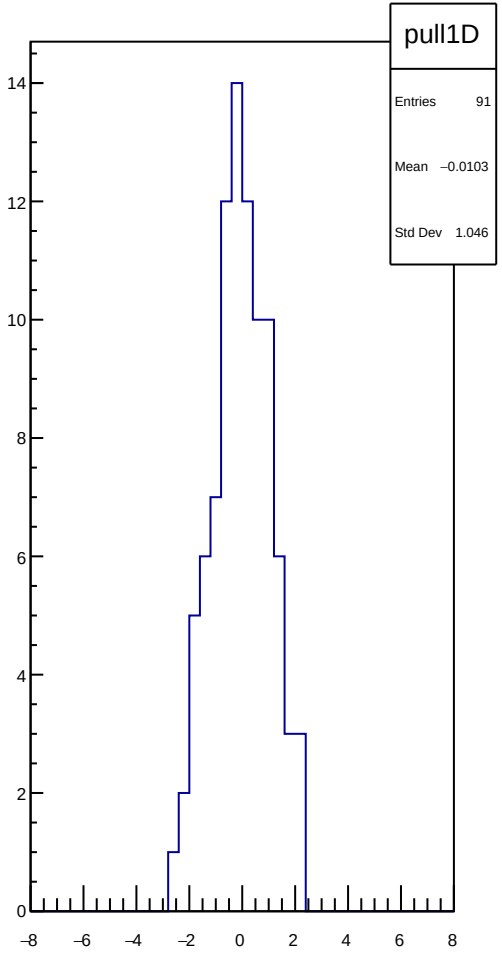

cor_asym_at1_avg_rms vs run
χ² / ndf 749.3 / 90
p0 1841 ± 1.39
2000
1950
1900
1850
1800

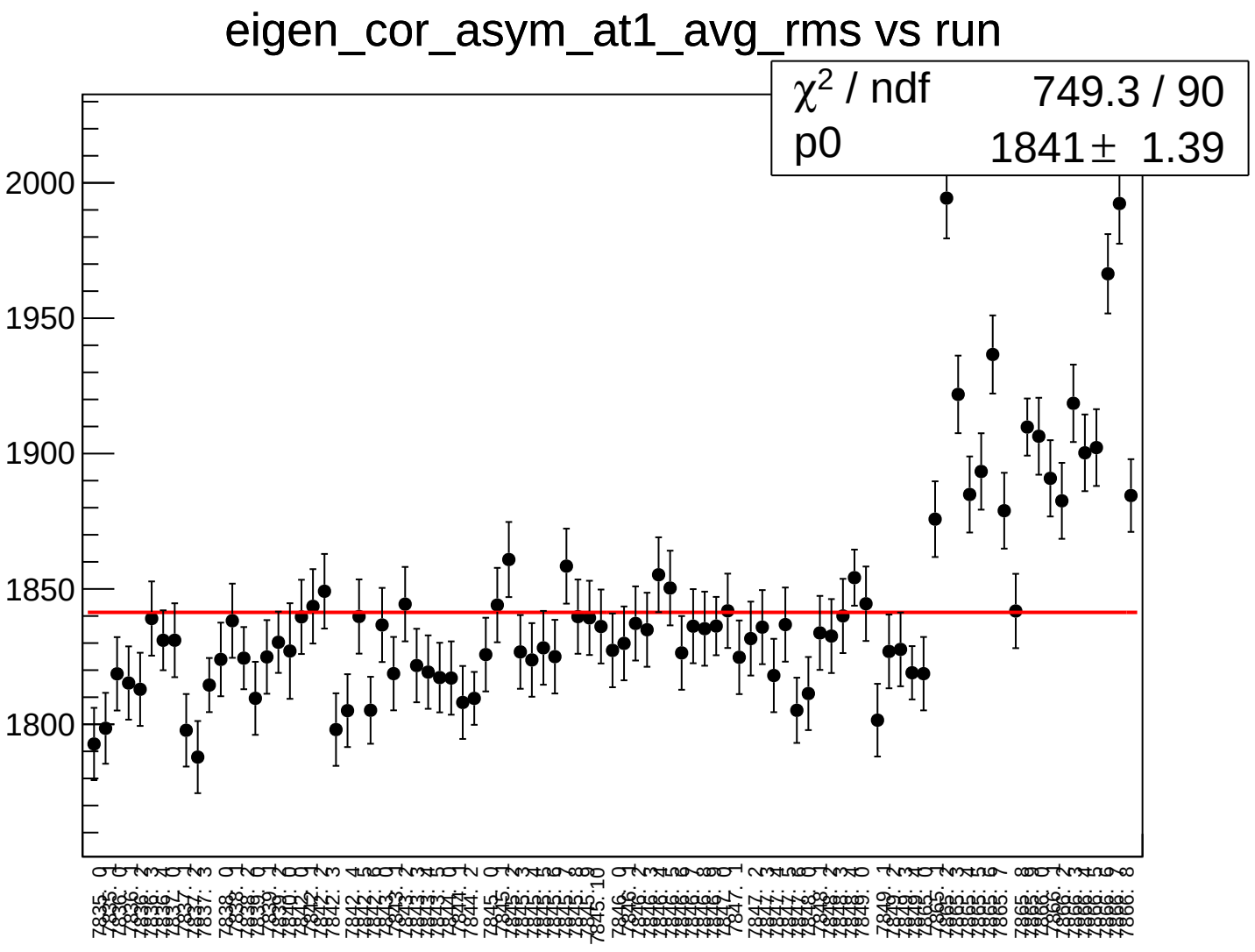

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 108.5 / 90
p0 −2300 ± 1204
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 186.8
Std Dev 0
2
1
0
−1
−2
−3

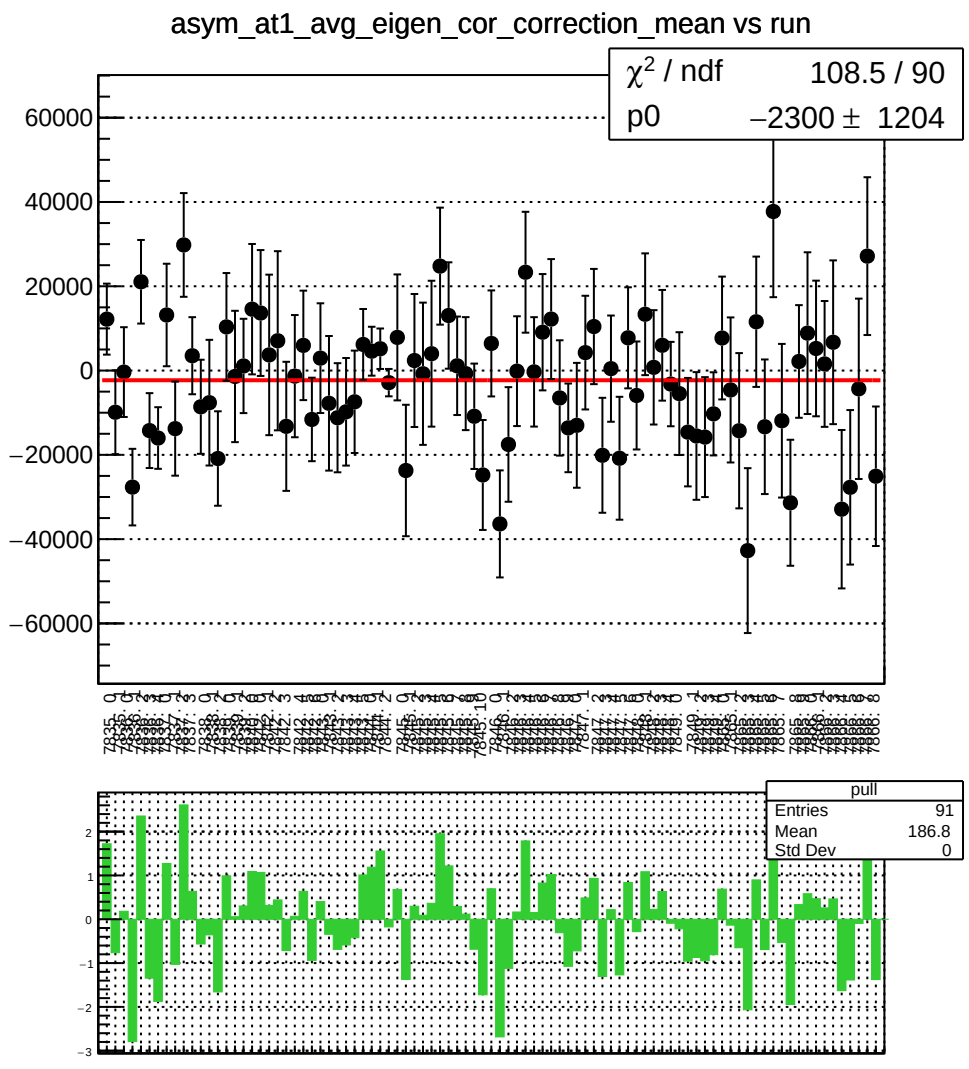

pull1D
Entries 91
Mean −0.02148
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

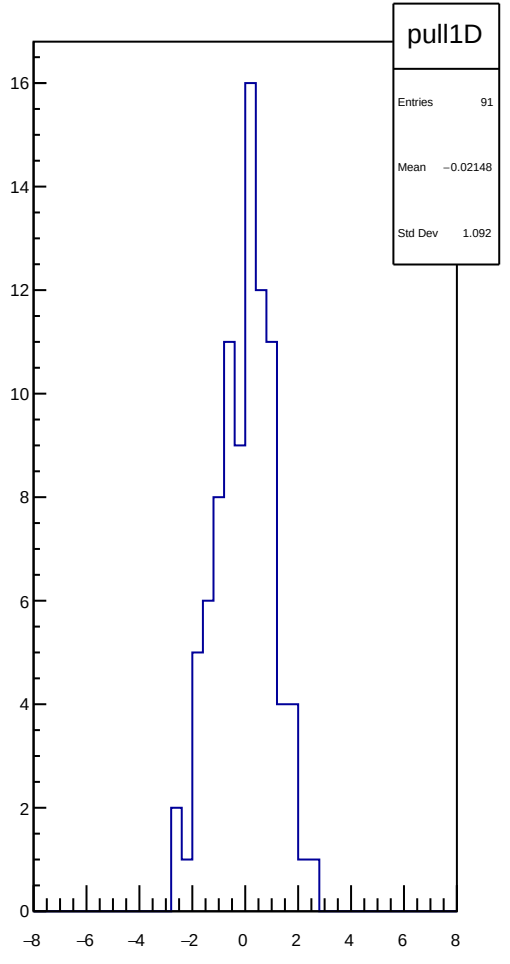

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.264e+05 / 90
p0 1052 ± 0.8512
2200
2000
1800
1600
1400
1200
1000
800
600
400

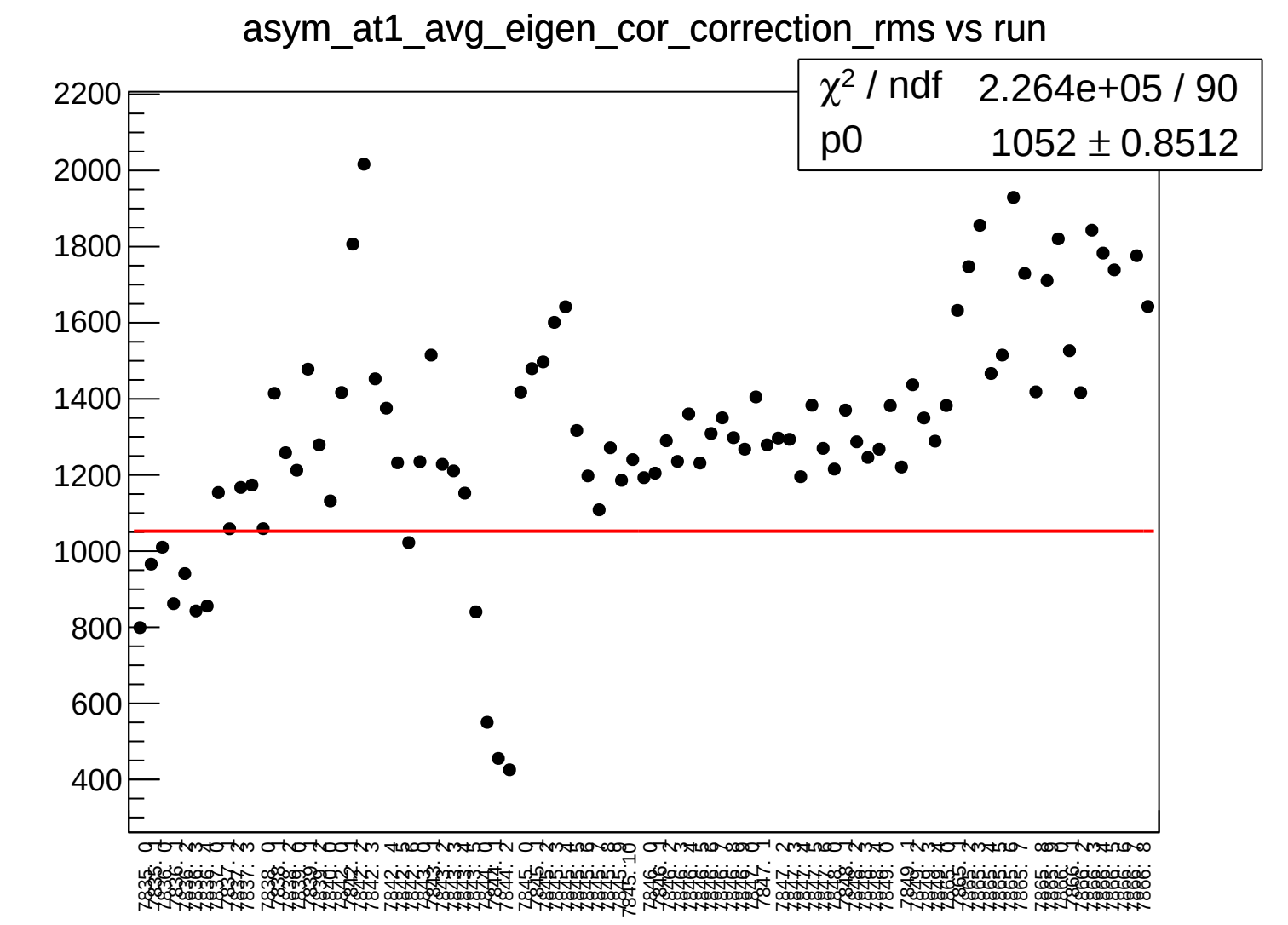

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 99.66 / 90
p0 3339 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −42.63
Std Dev 0
2
1
0
−1
−2

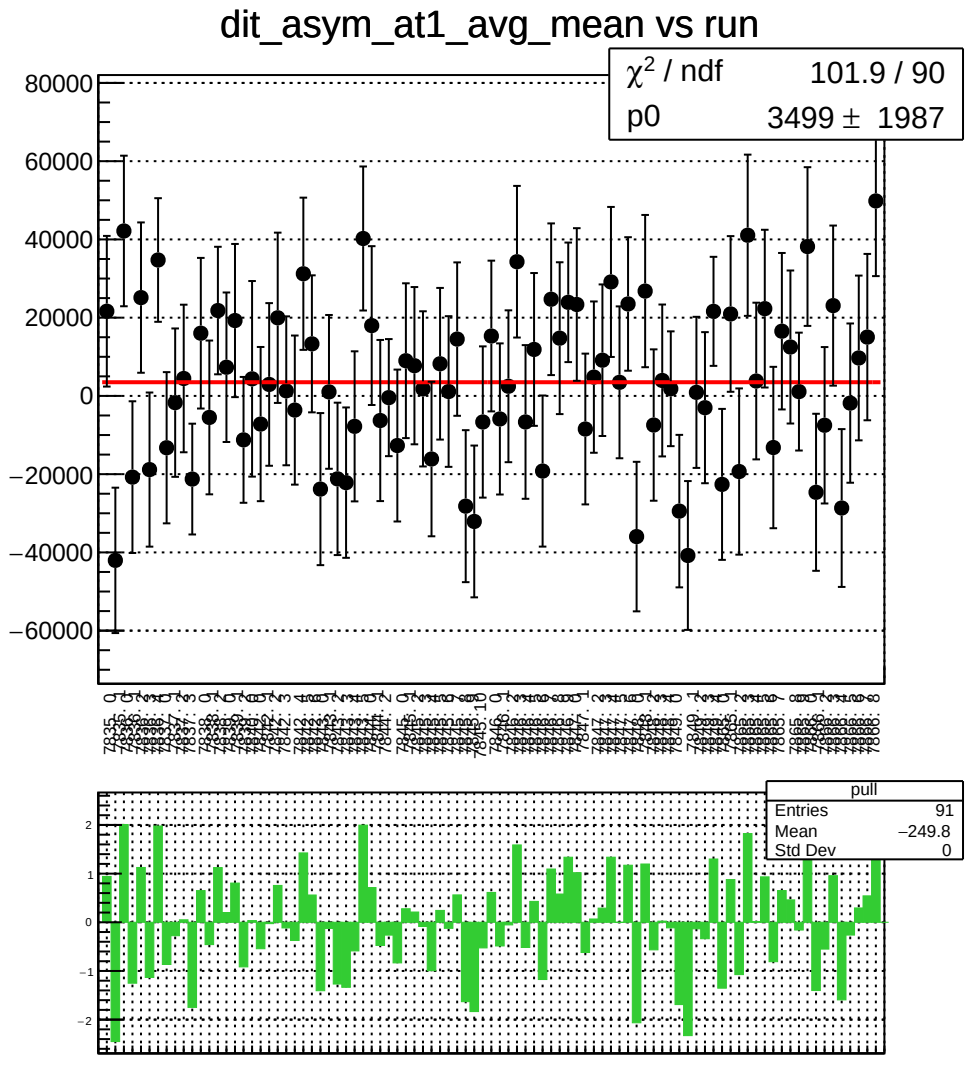

pull1D
Entries 91
Mean −0.0103
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

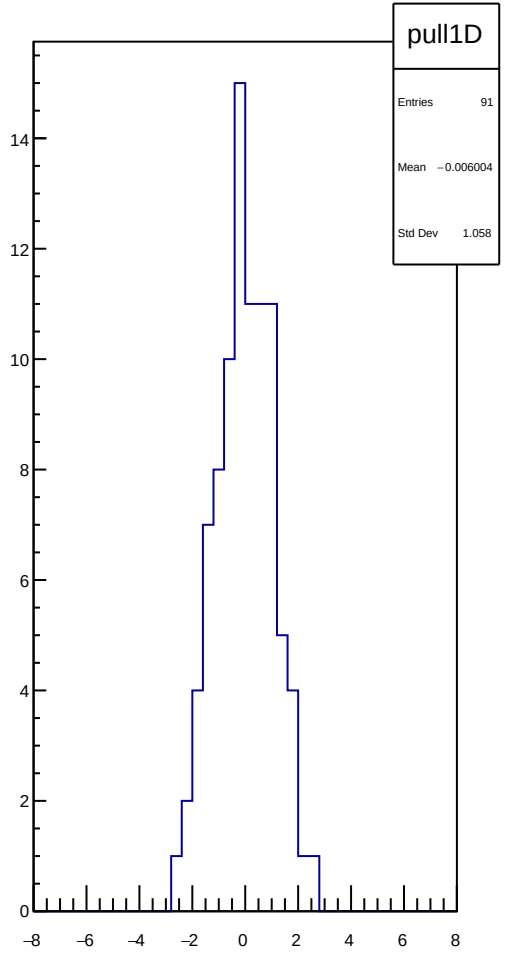

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 749.3 / 90
p0 1841 ± 1.39
2000
1950
1900
1850
1800

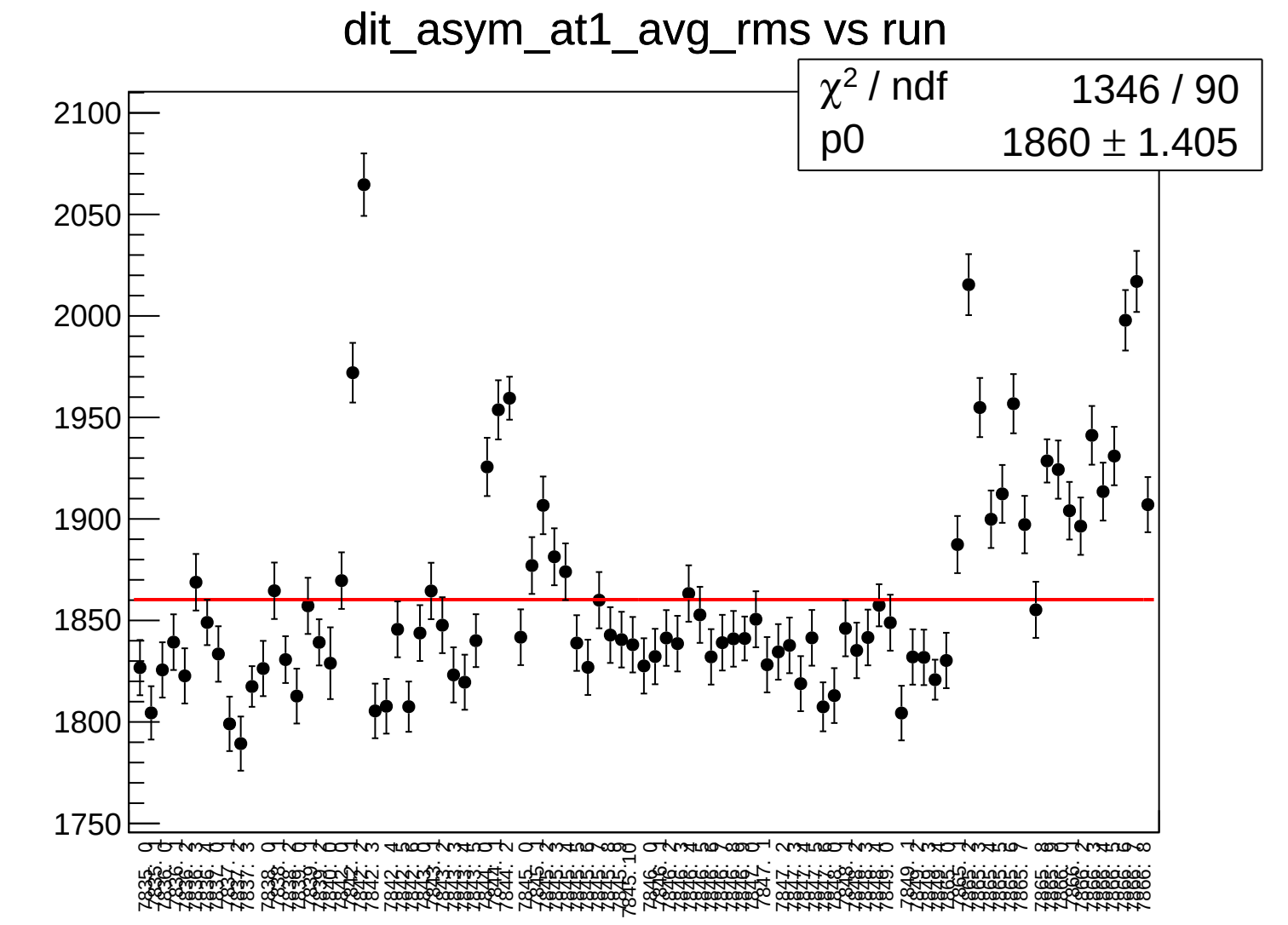

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 108.5 / 90
p0 −2300 ± 1204
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 186.8
Std Dev 0
2
1
0
−1
−2
−3

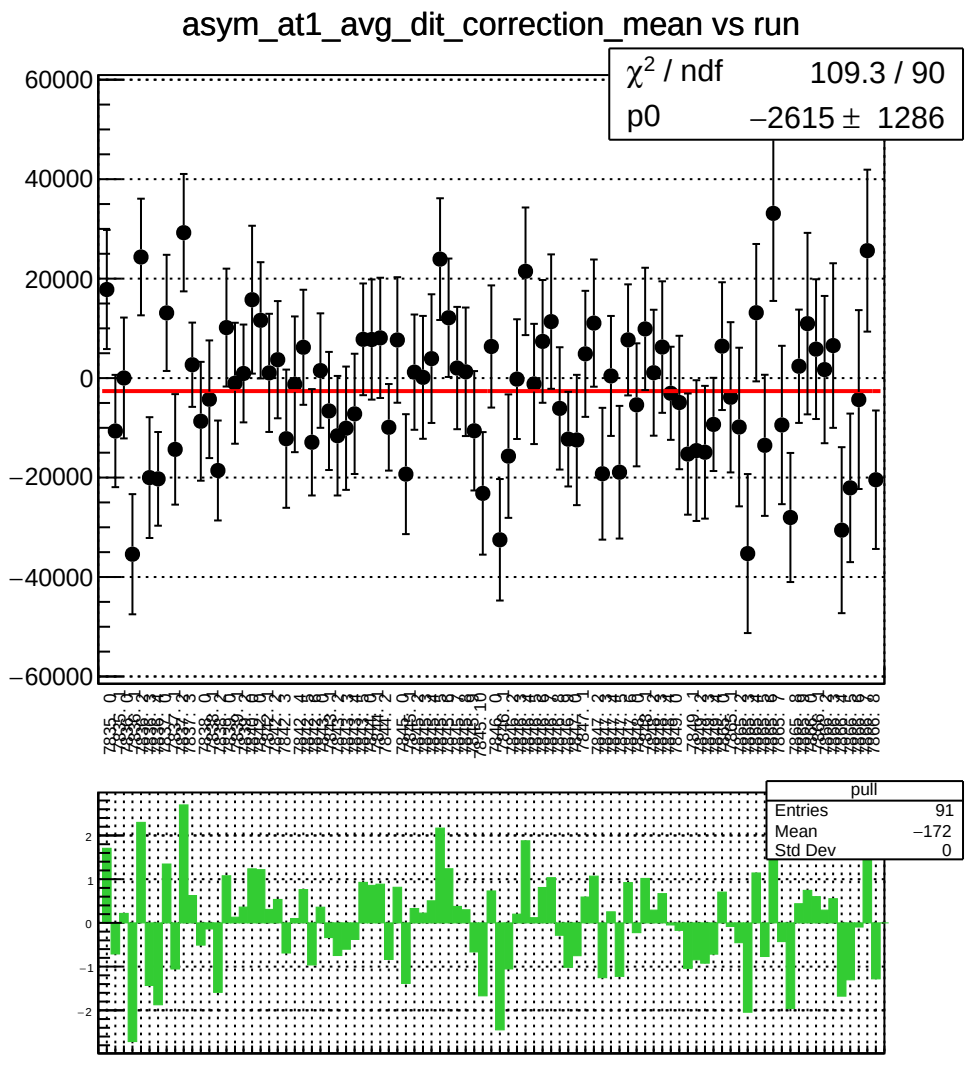

pull1D
Entries 91
Mean −0.02148
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

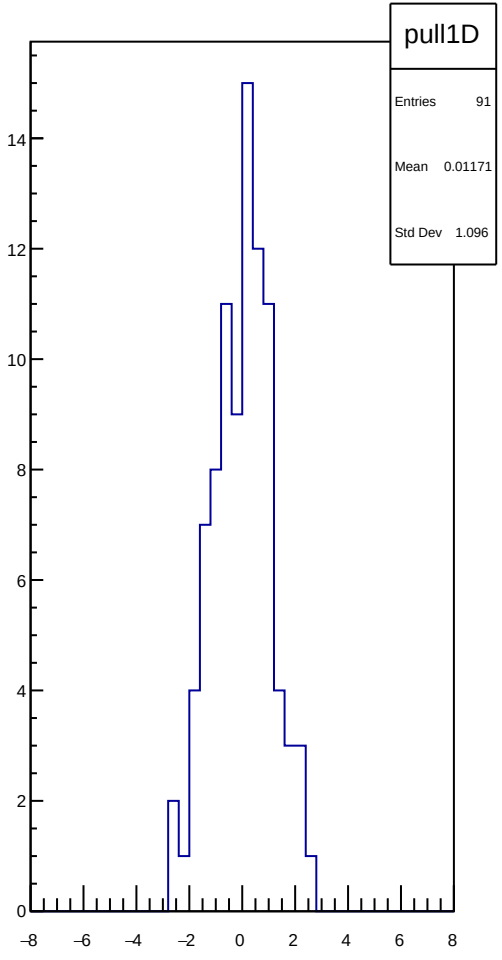

asym_at1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.264e+05 / 90
p0 1052 ± 0.8512
2200
2000
1800
1600
1400
1200
1000
800
600
400

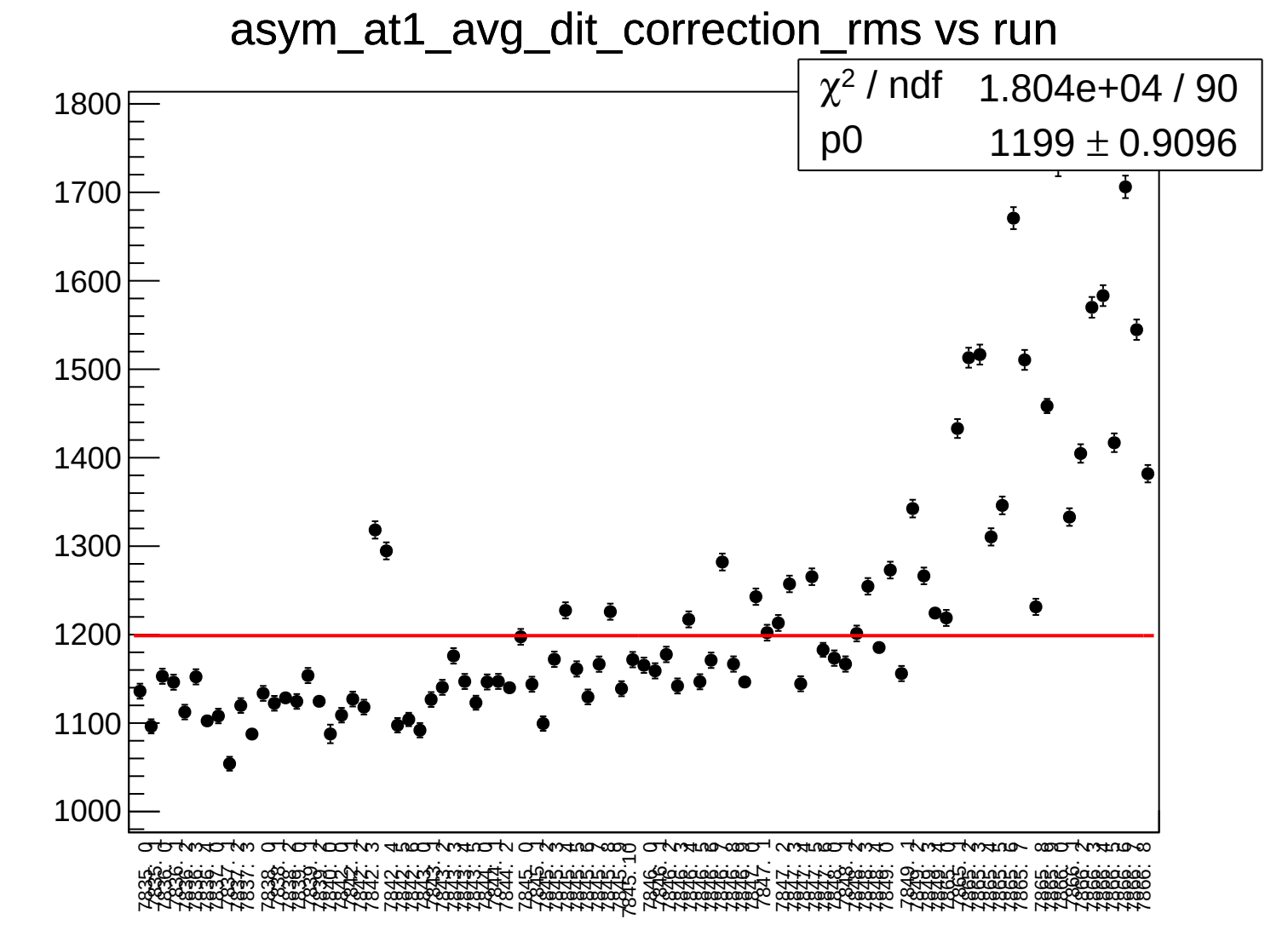

dit_asym_at1_avg_mean vs run
χ² / ndf 101.9 / 90
p0 3499 ± 1987
pull
Entries 91
Mean −249.8
Std Dev 0

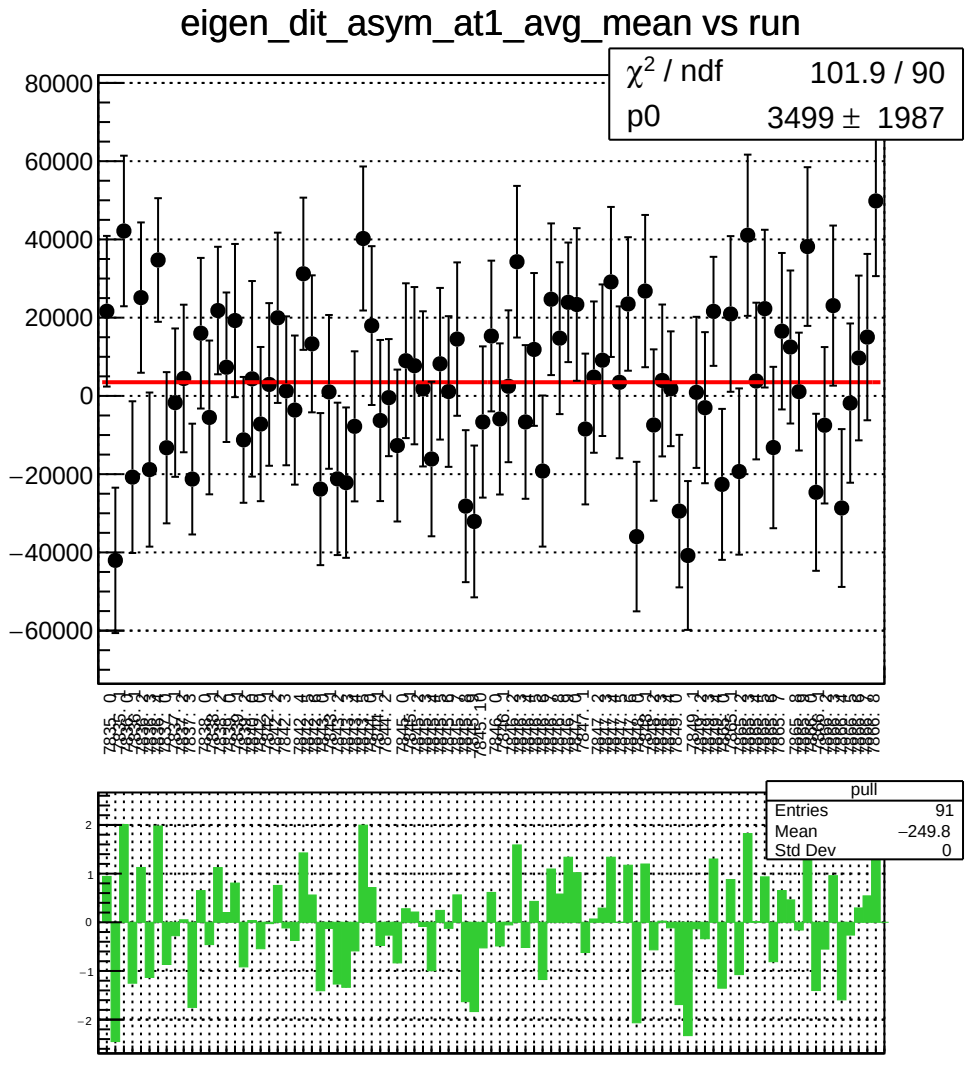

pull1D
Entries 91
Mean −0.006004
Std Dev 1.058

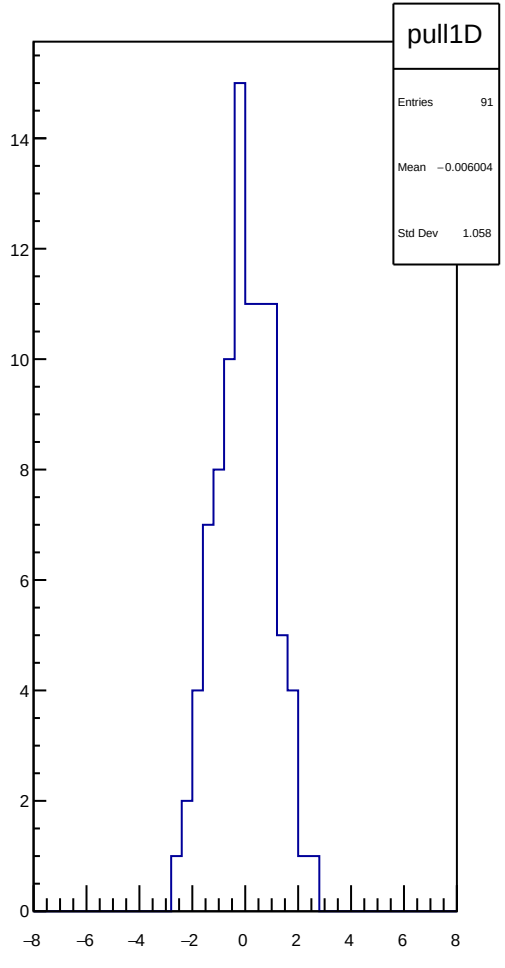

dit_asym_at1_avg_rms vs run
χ² / ndf 1346 / 90
p0 1860 ± 1.405
2100
2050
2000
1950
1900
1850
1800
1750

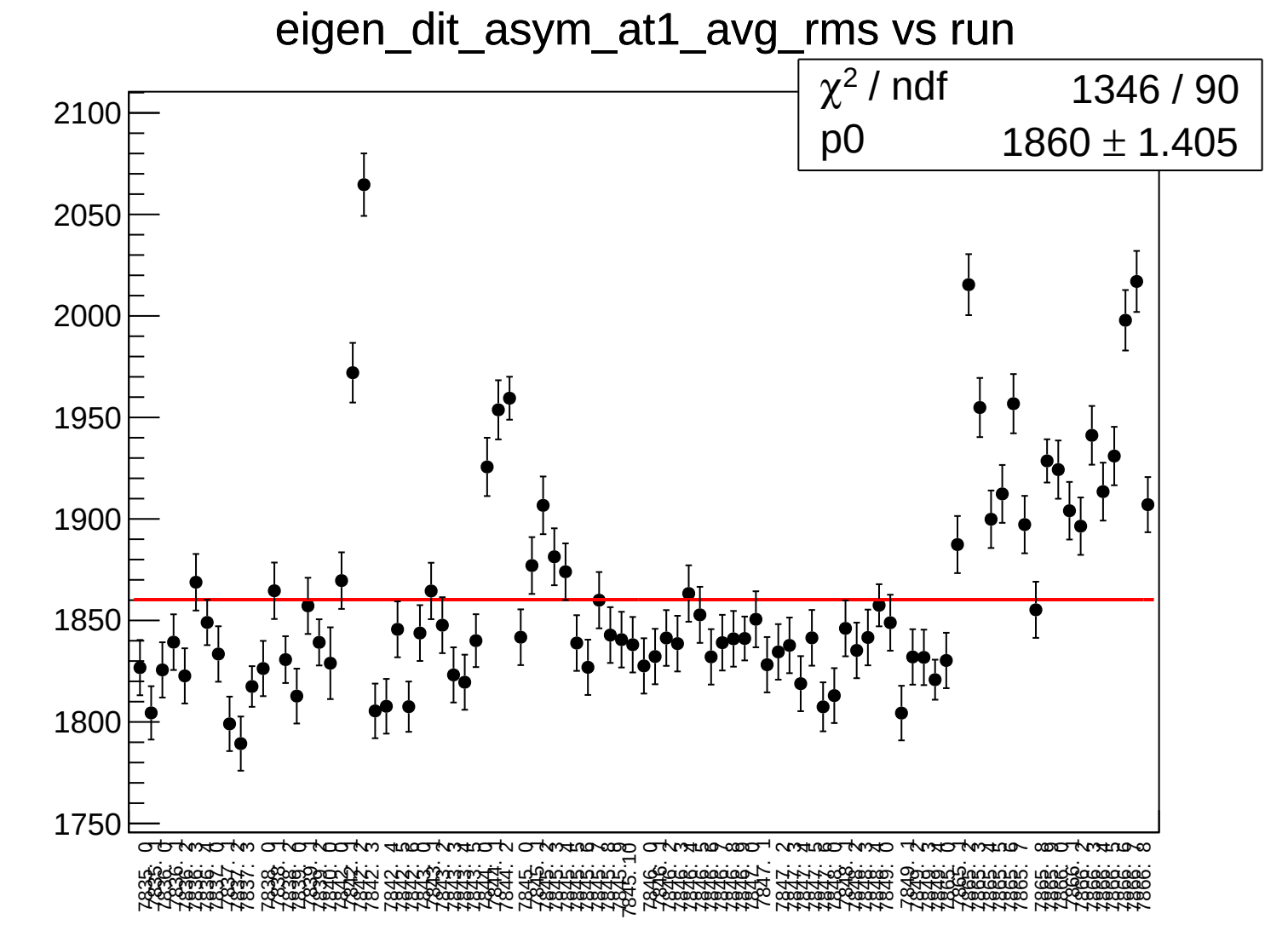

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 109.3 / 90
p0 −2615 ± 1286
pull
Entries 91
Mean −172
Std Dev 0

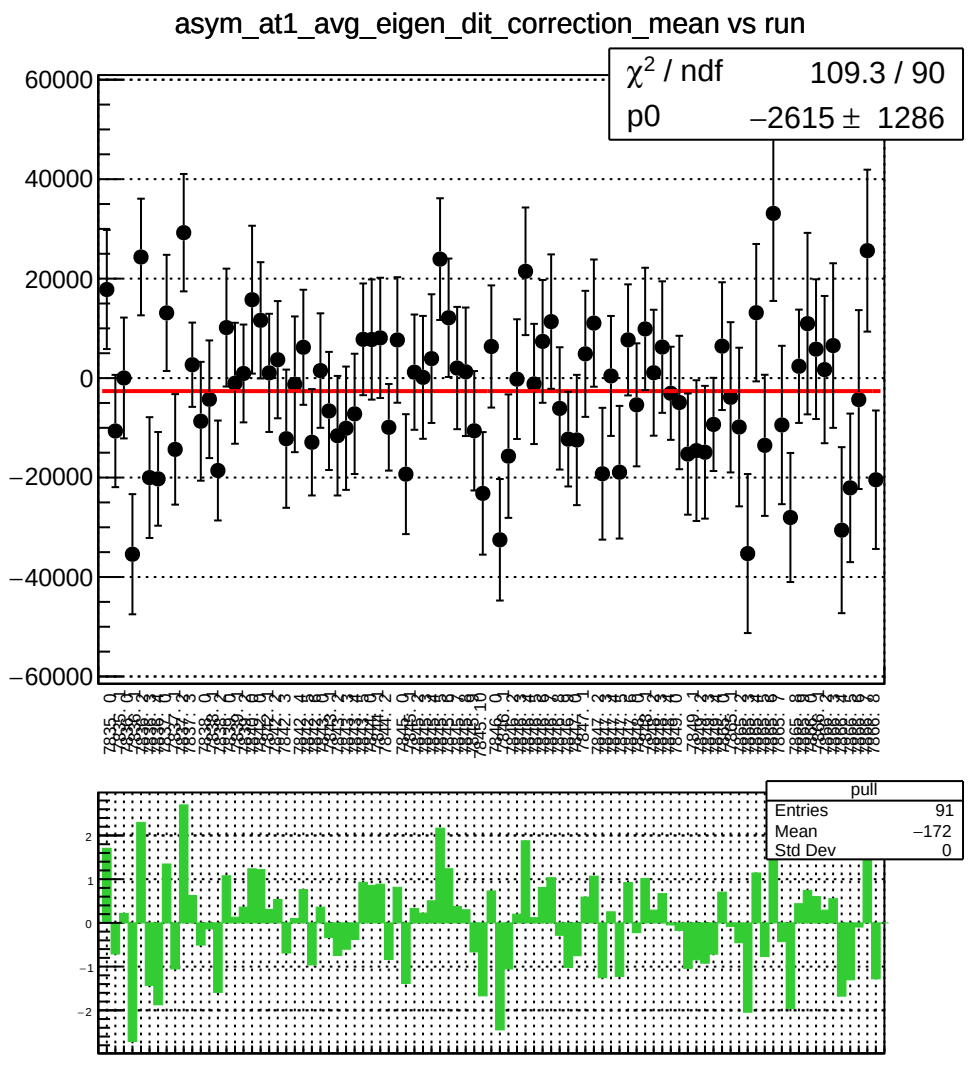

pull1D
Entries 91
Mean 0.01171
Std Dev 1.096

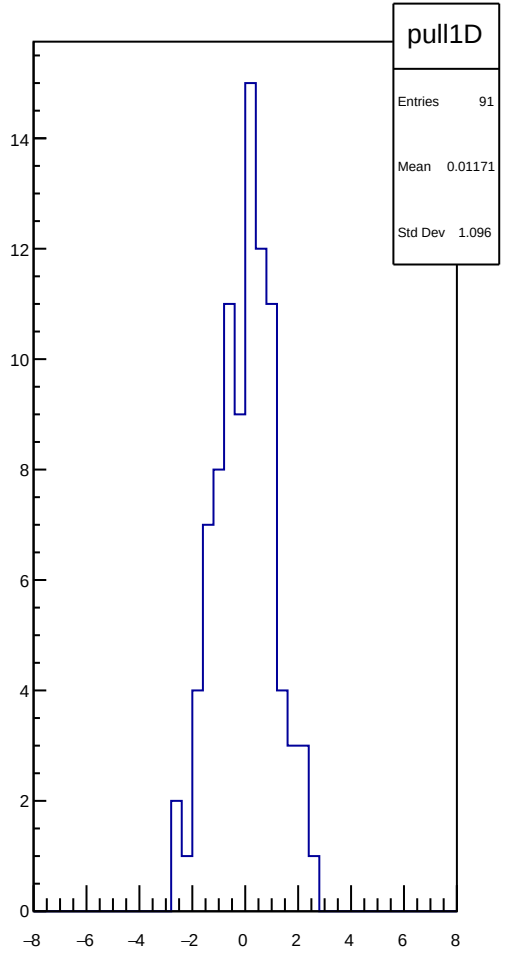

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.804e+04 / 90
p0 1199 ± 0.9096
1800
1700
1600
1500
1400
1300
1200
1100
1000

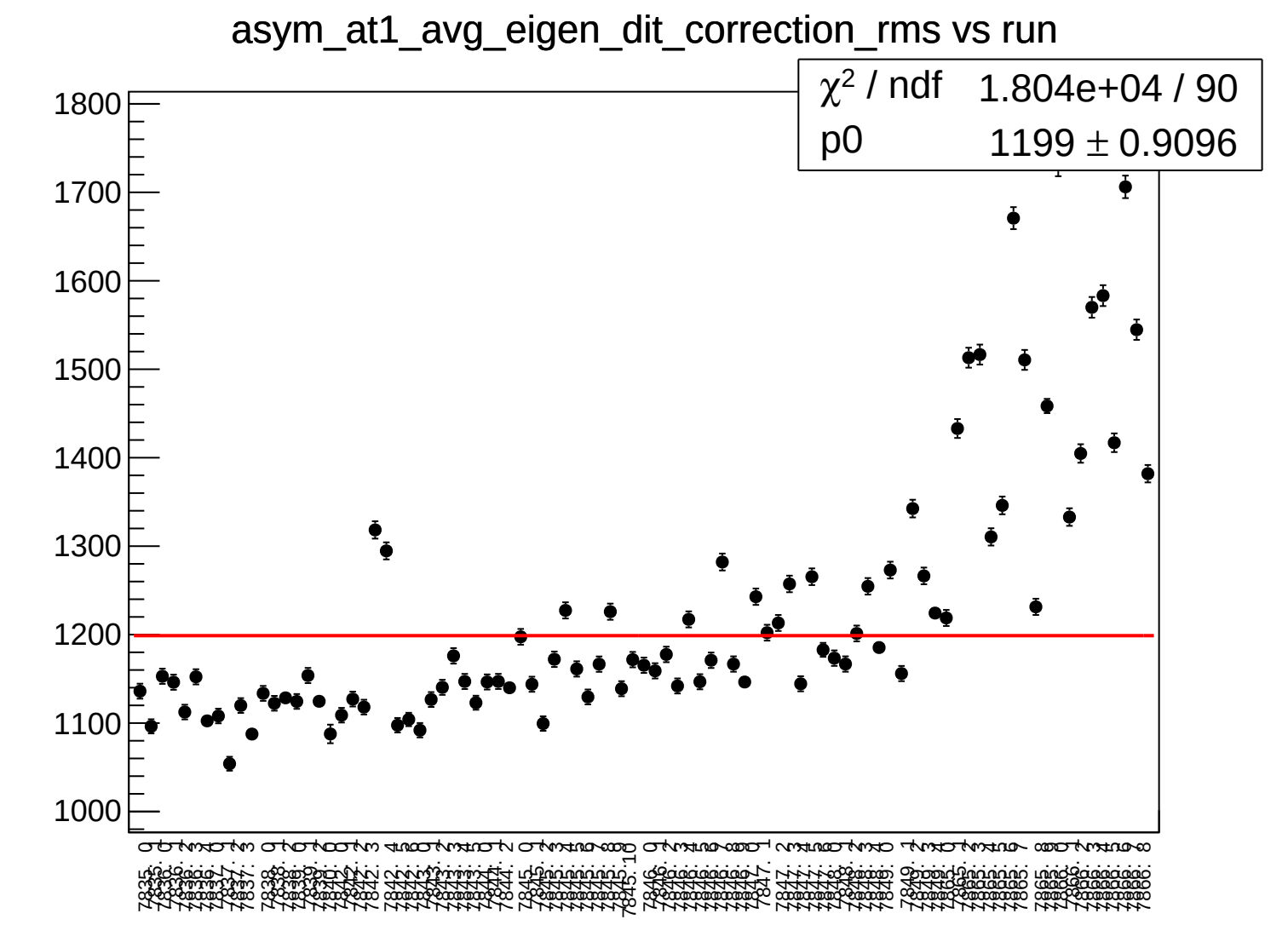

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 101.9 / 90
p0 3499 ± 1987
pull
Entries 91
Mean −249.8
Std Dev 0

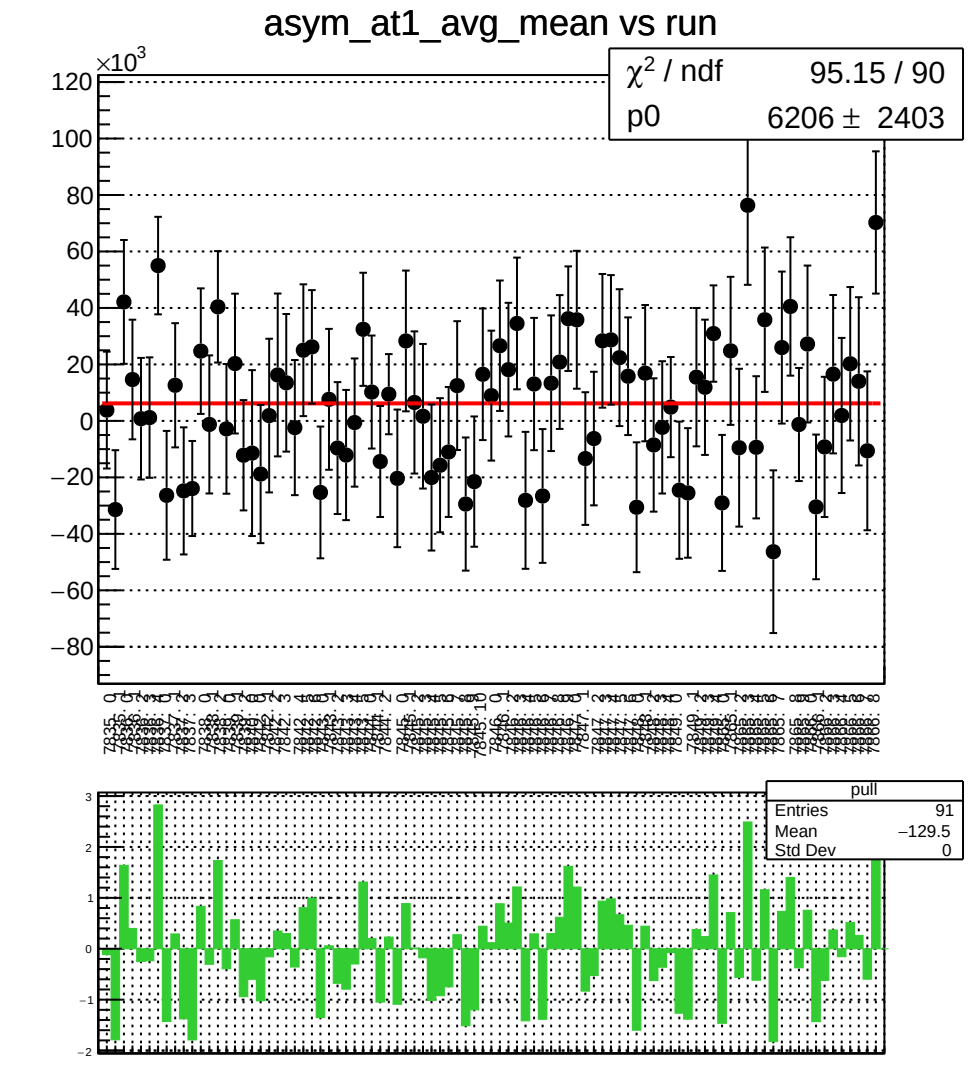

pull1D
Entries 91
Mean −0.006004
Std Dev 1.058

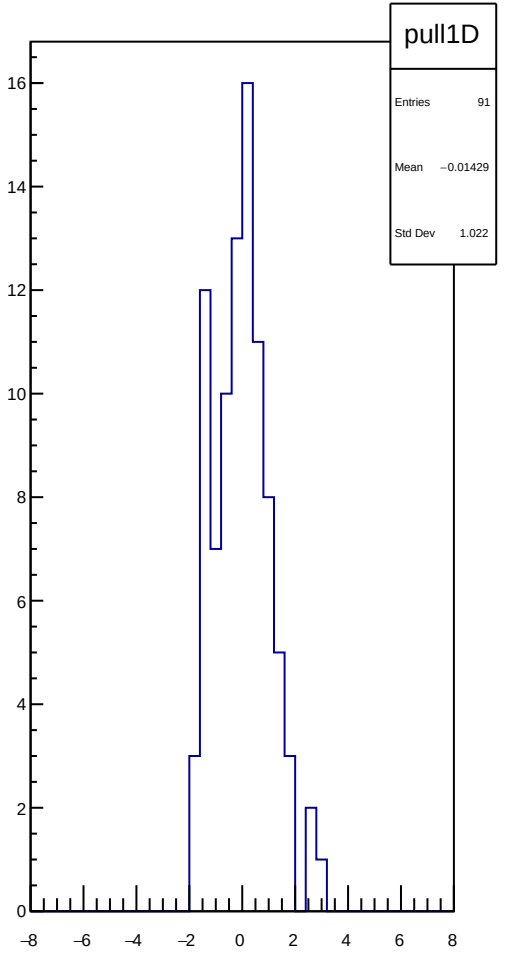

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 1346 / 90
p0 1860 ± 1.405
2100
2050
2000
1950
1900
1850
1800
1750

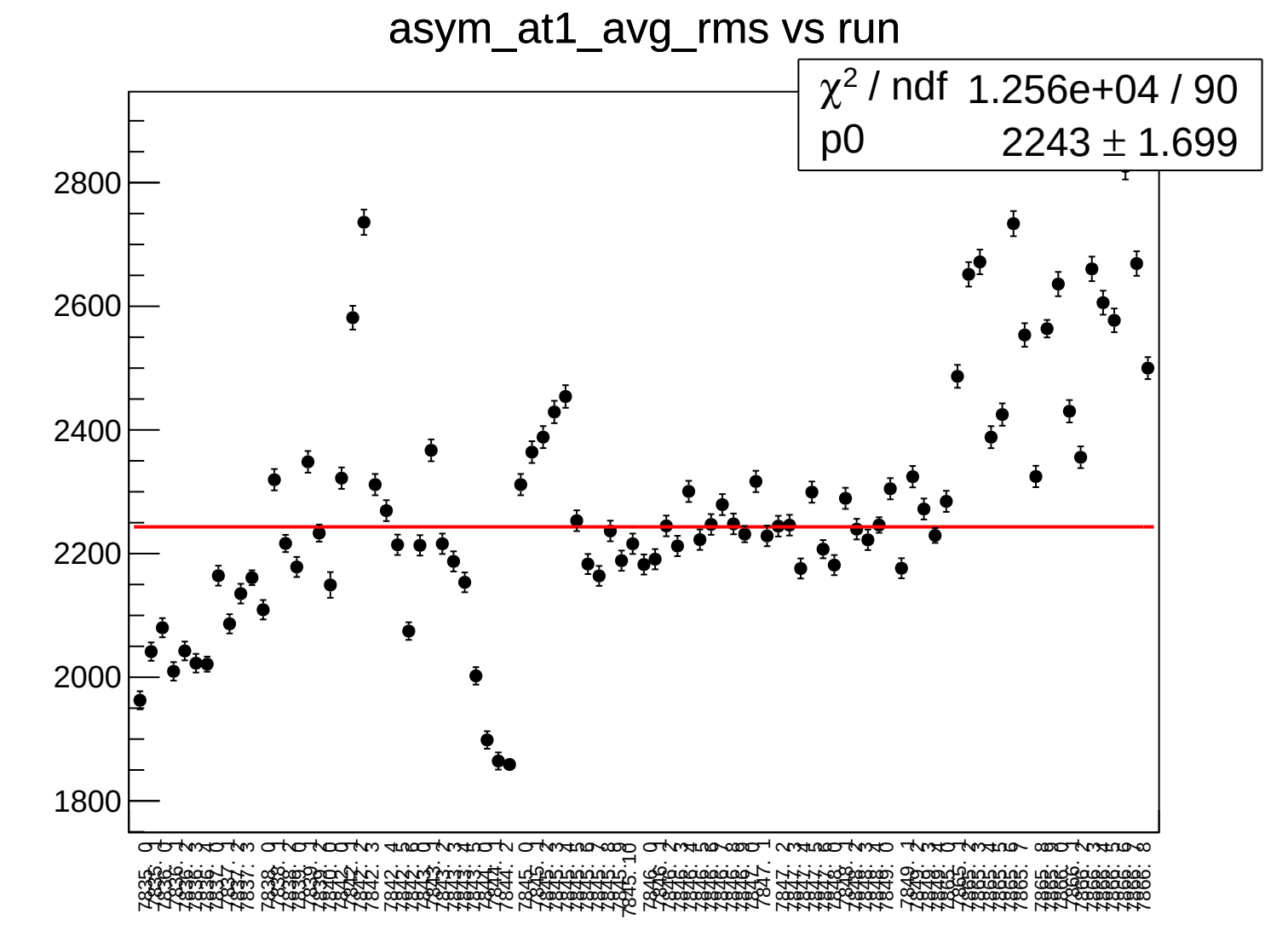

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 109.3 / 90
p0 −2615 ± 1286
pull
Entries 91
Mean −172
Std Dev 0

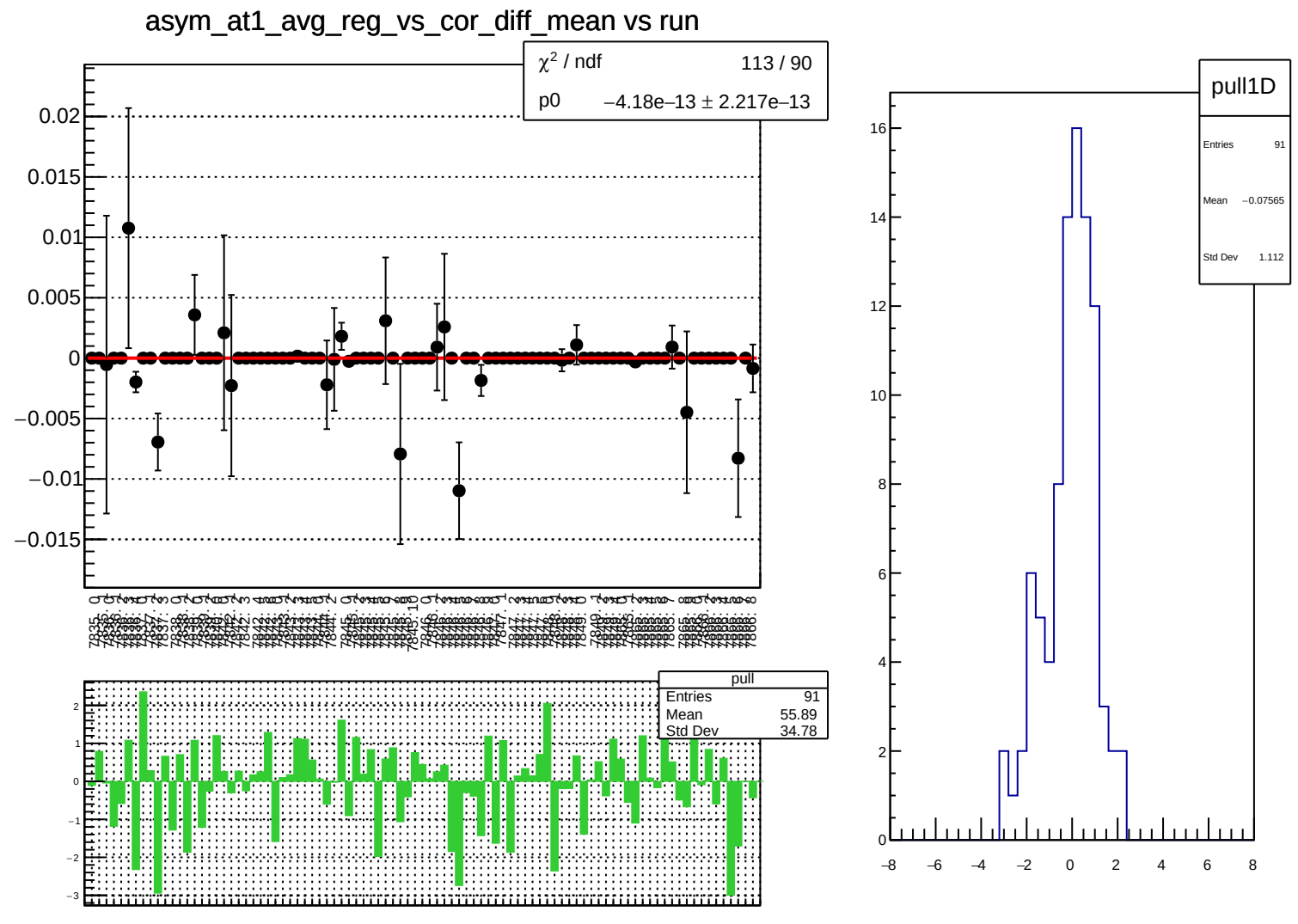

pull1D
Entries 91
Mean 0.01171
Std Dev 1.096

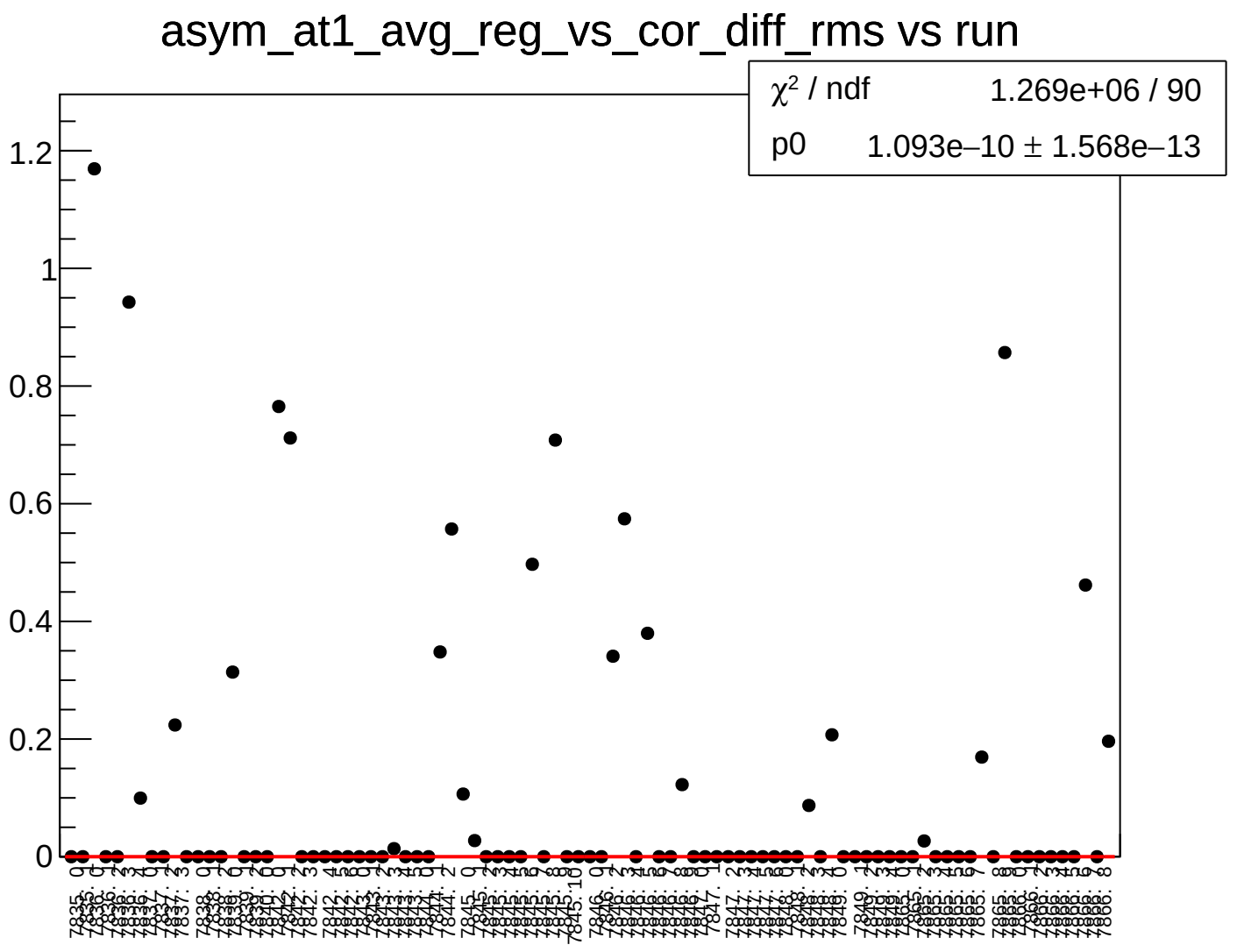

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.804e+04 / 90
p0 1199 ± 0.9096
1800
1700
1600
1500
1400
1300
1200
1100
1000

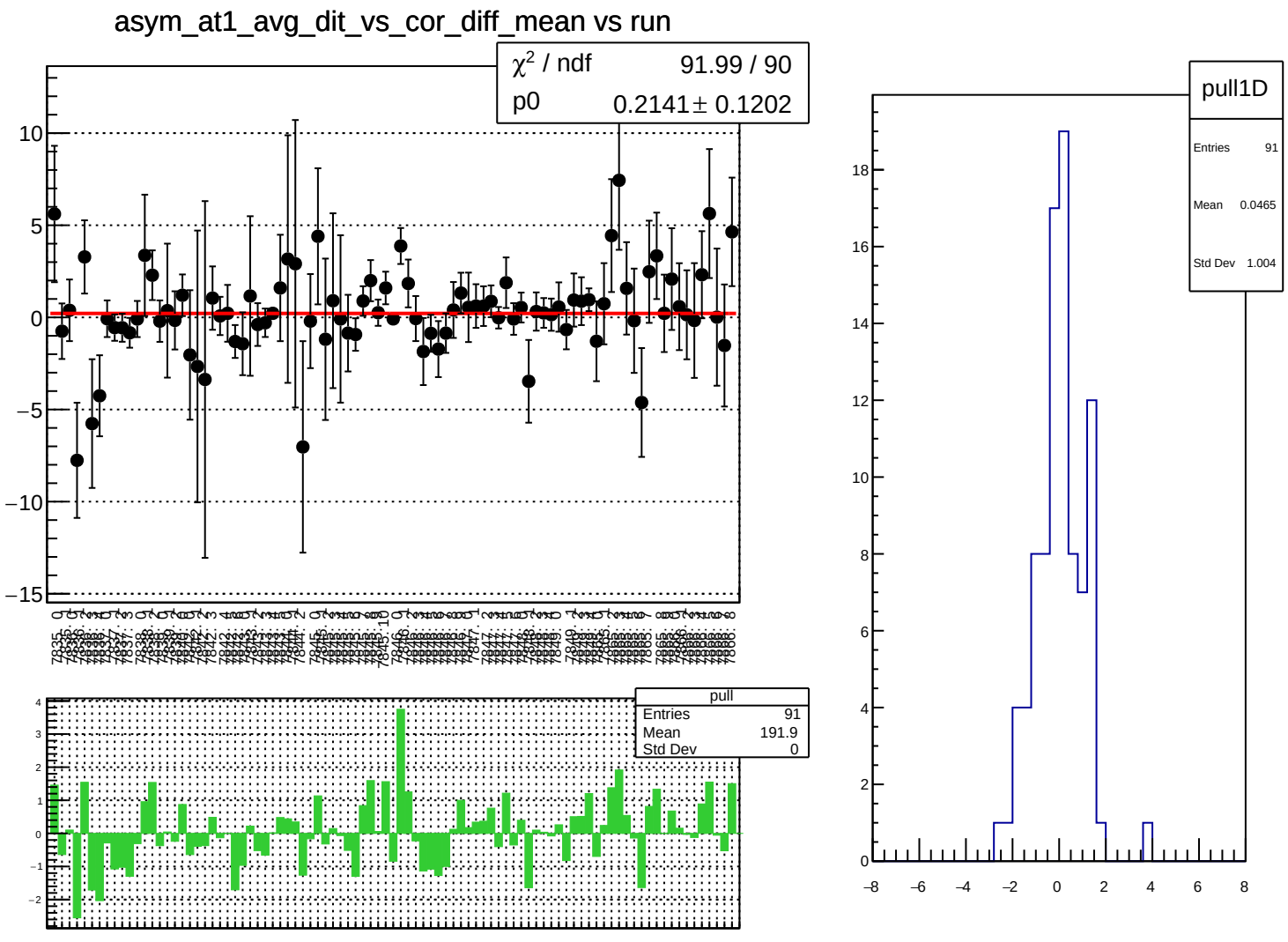

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 95.15 / 90
p0 6206 ± 2403
pull
Entries 91
Mean −129.5
Std Dev 0

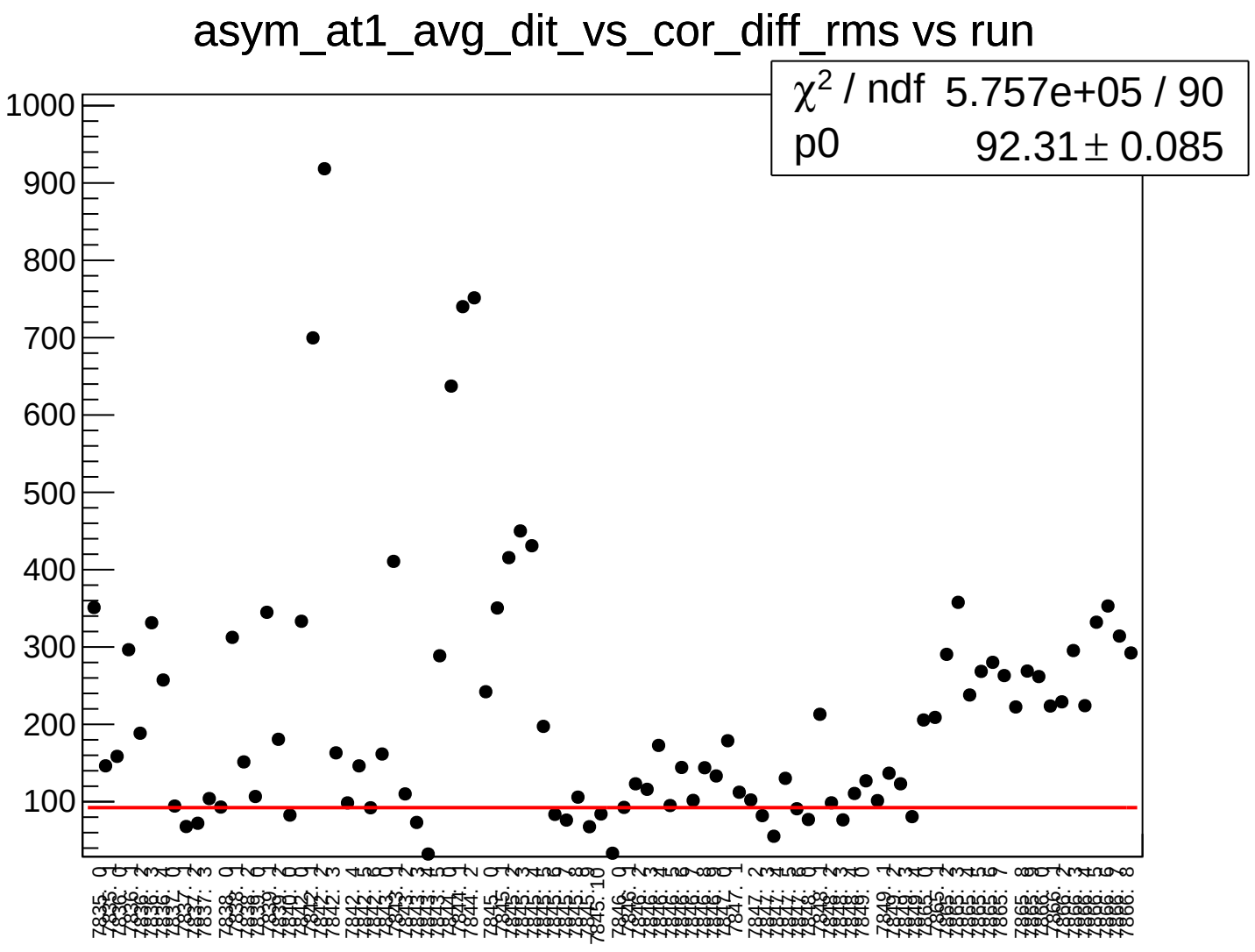

pull1D
Entries 91
Mean −0.01429
Std Dev 1.022

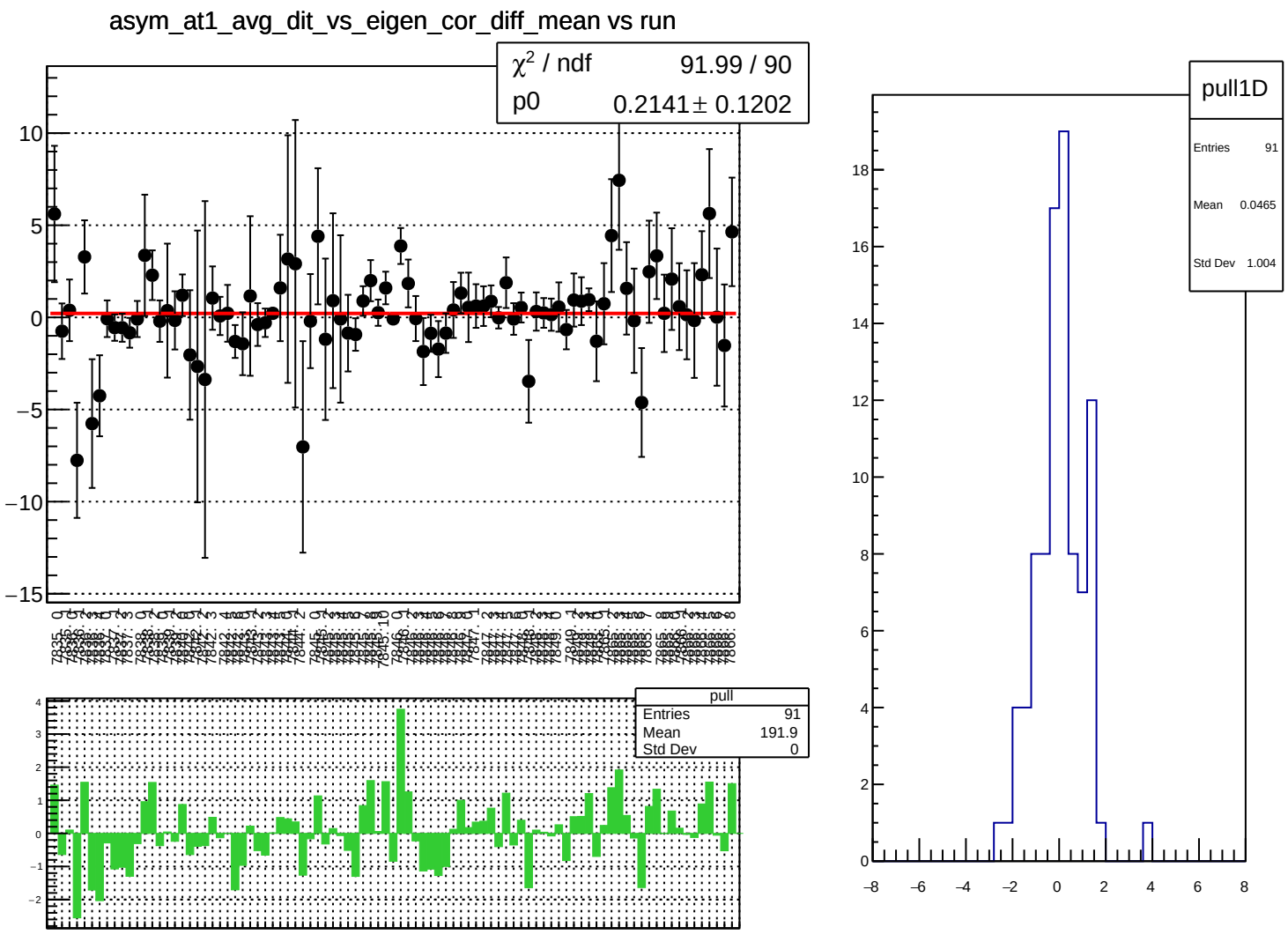

asym_at1_avg_rms vs run
χ² / ndf 1.256e+04 / 90
p0 2243 ± 1.699
2800
2600
2400
2200
2000
1800

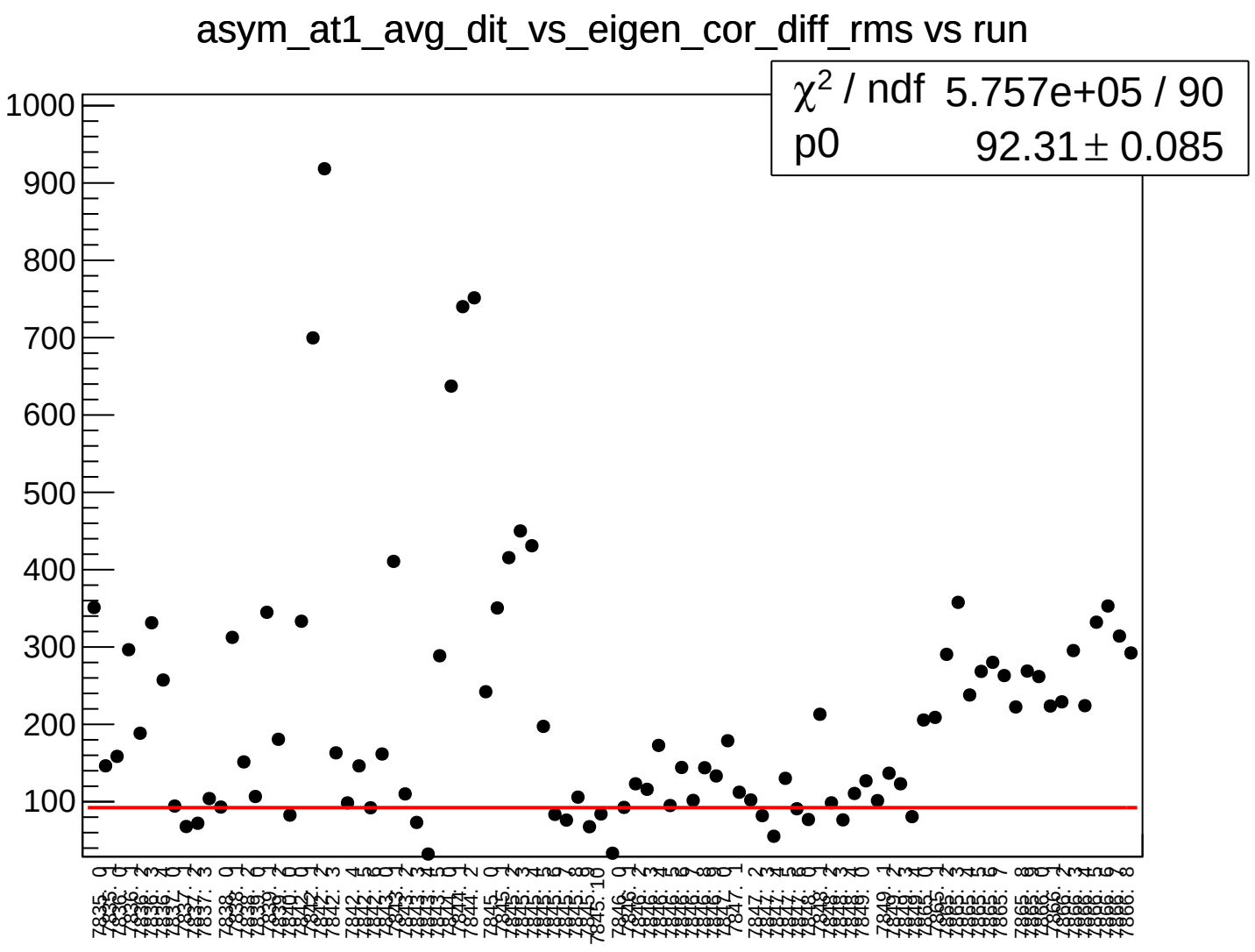

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113 / 90
p0 −4.18e−13 ± 2.217e−13
pull
Entries 91
Mean 55.89
Std Dev 34.78
pull1D
Entries 91
Mean −0.07565
Std Dev 1.112

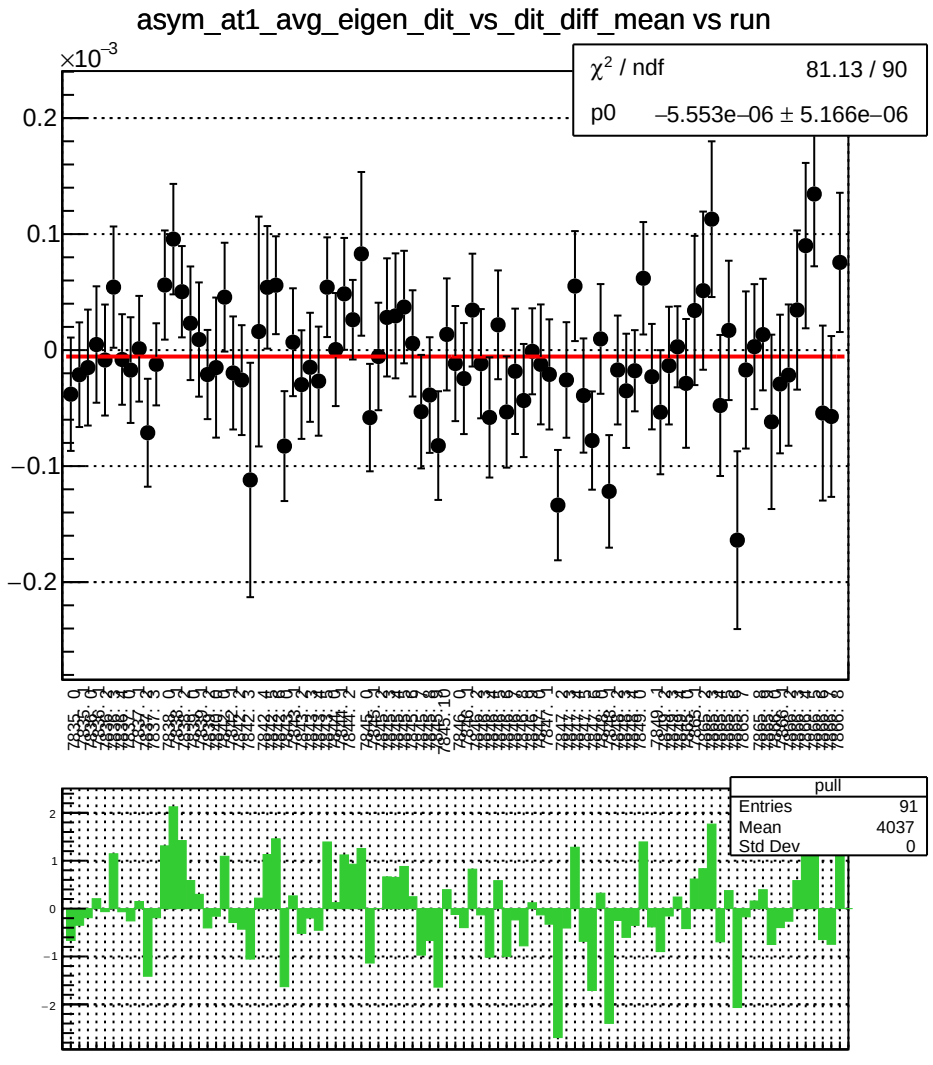

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.269e+06 / 90
p0 1.093e−10 ± 1.568e−13
1.2
1
0.8
0.6
0.4
0.2
0

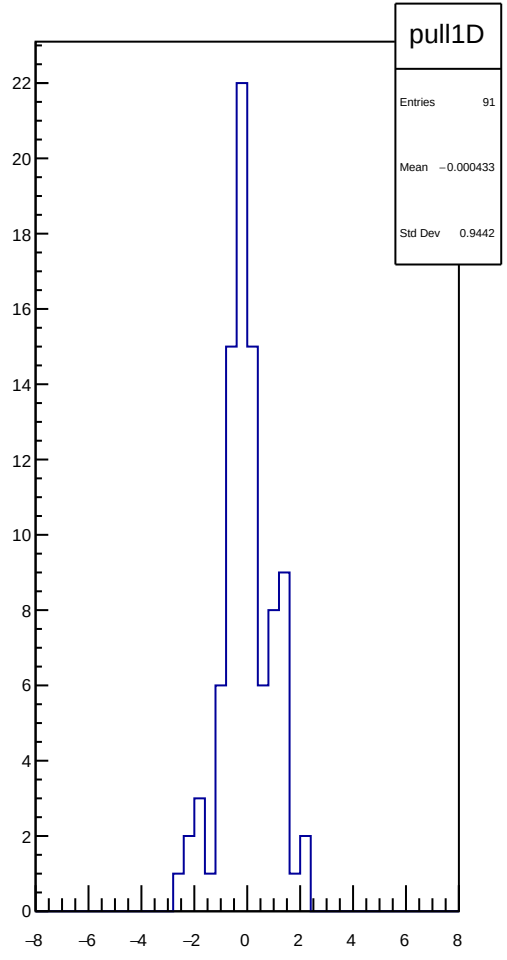

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.99 / 90
p0 0.2141 ± 0.1202
pull
Entries 91
Mean 191.9
Std Dev 0
pull1D
Entries 91
Mean 0.0465
Std Dev 1.004

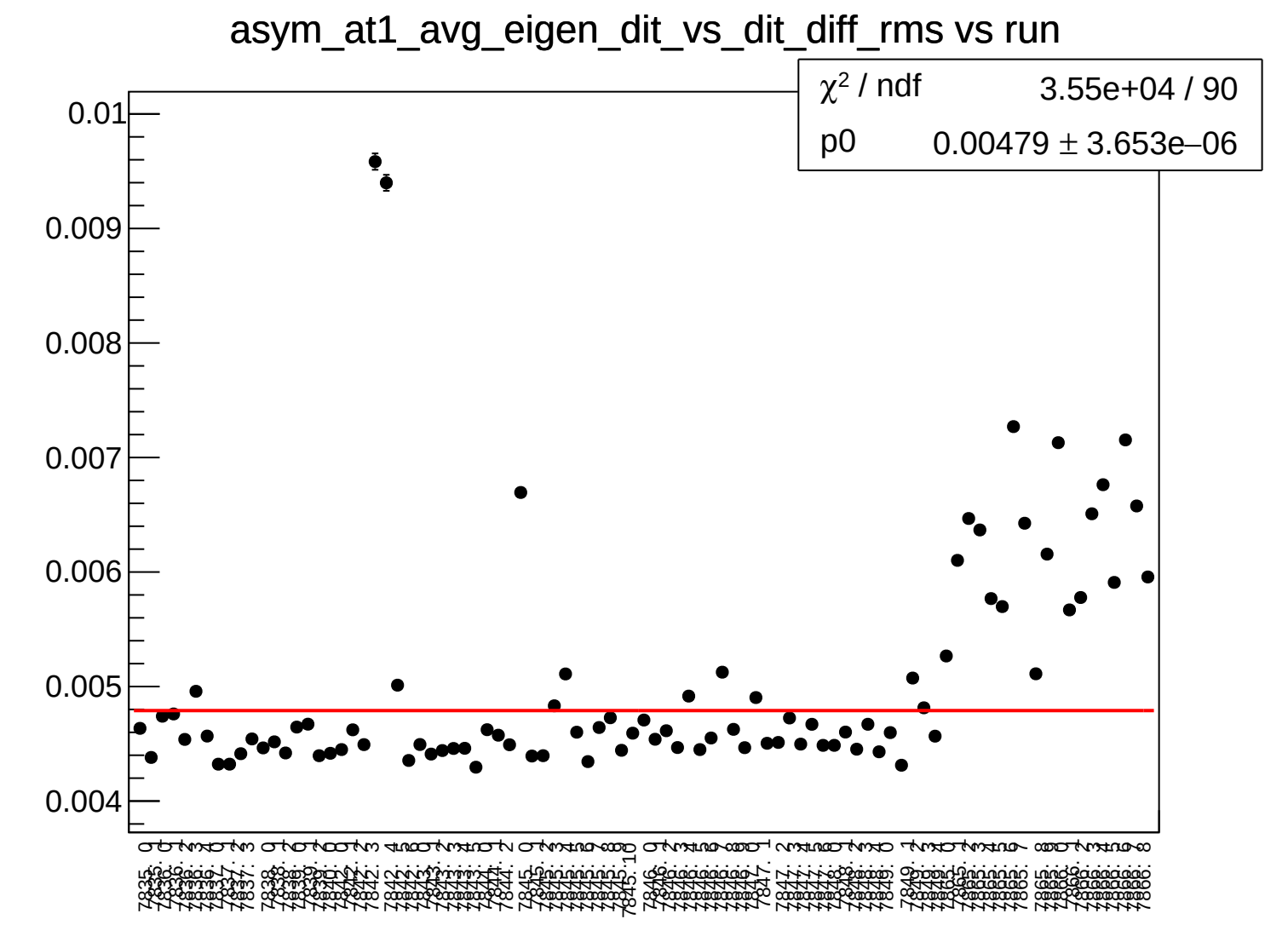

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.757e+05 / 90
p0 92.31 ± 0.085
1000
900
800
700
600
500
400
300
200
100

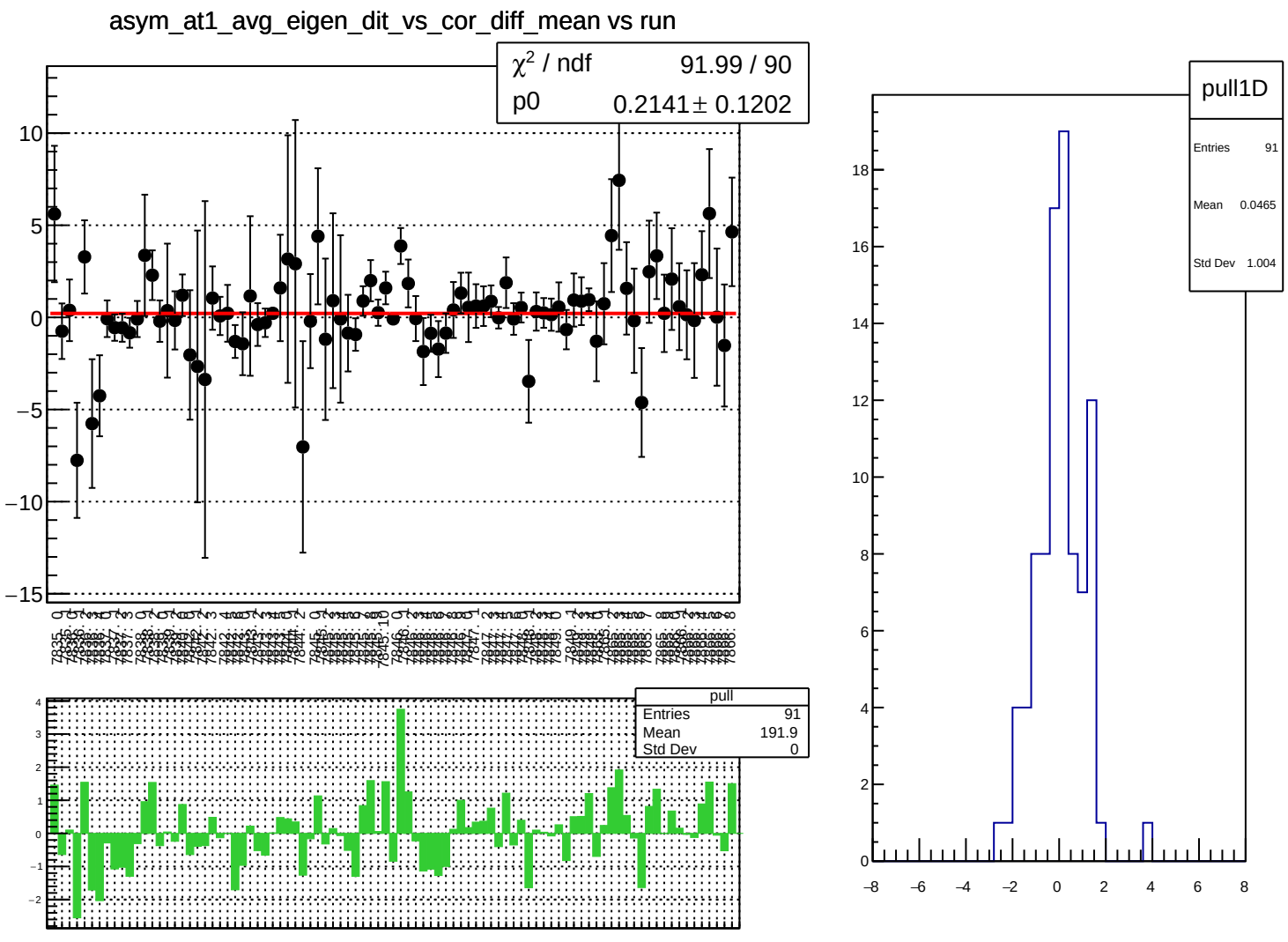

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.99 / 90
p0 0.2141 ± 0.1202
pull
Entries 91
Mean 191.9
Std Dev 0
pull1D
Entries 91
Mean 0.0465
Std Dev 1.004

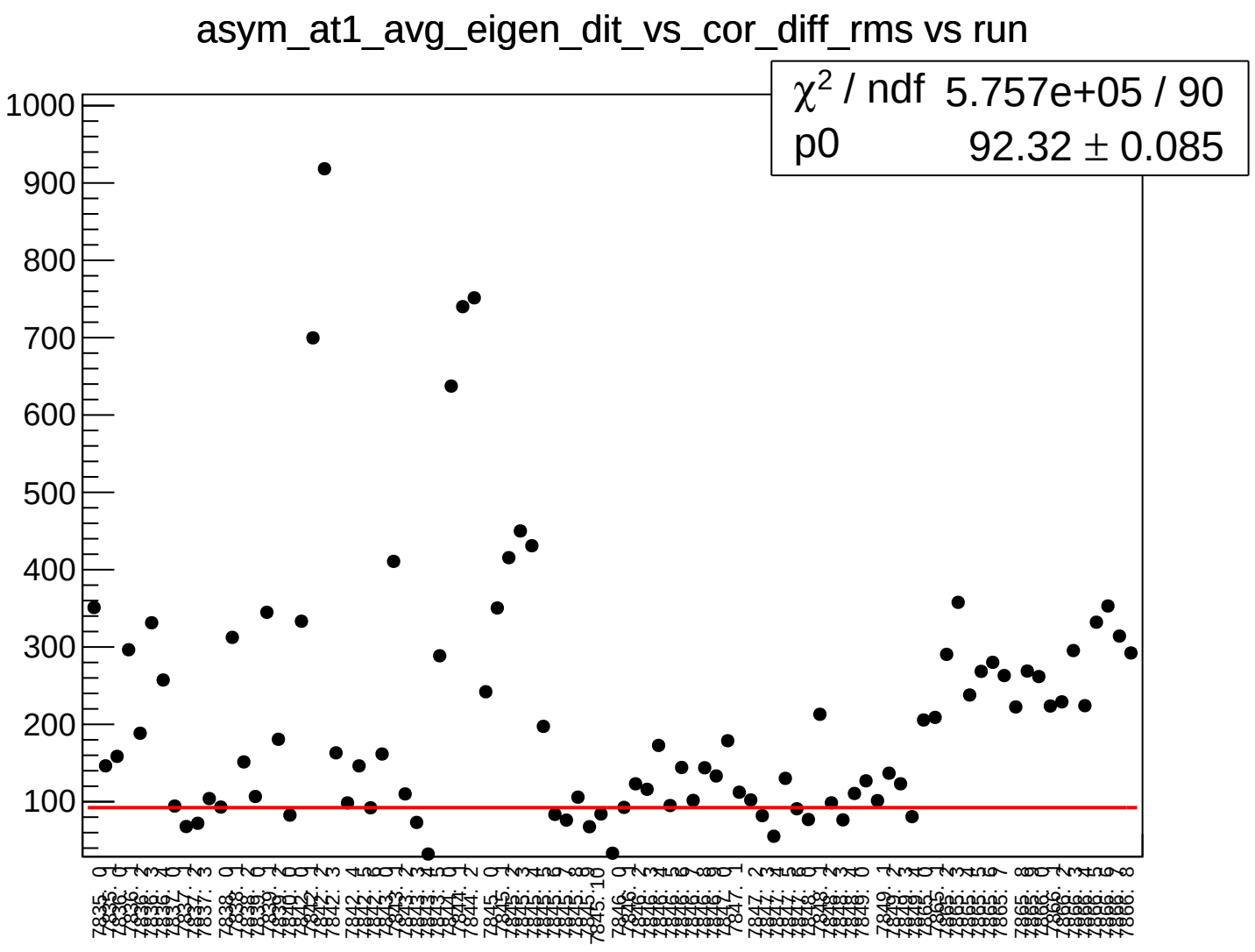

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.757e+05 / 90
p0 92.31 ± 0.085
1000
900
800
700
600
500
400
300
200
100

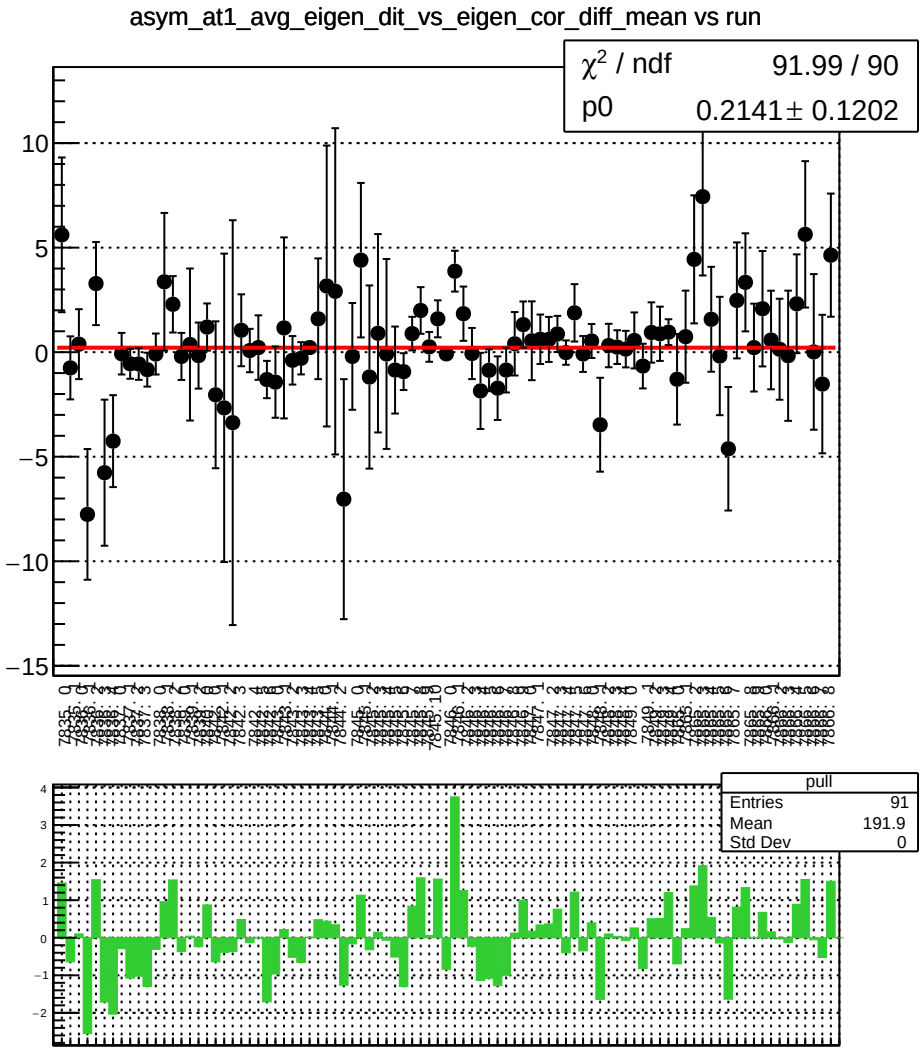

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.13 / 90
p0 −5.553e−06 ± 5.166e−06
pull
Entries 91
Mean 4037
Std Dev 0

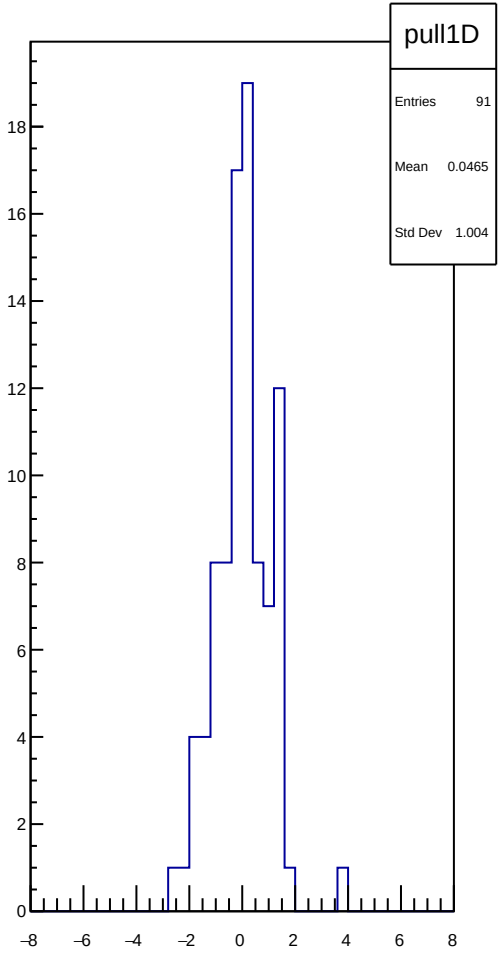

pull1D
Entries 91
Mean −0.000433
Std Dev 0.9442

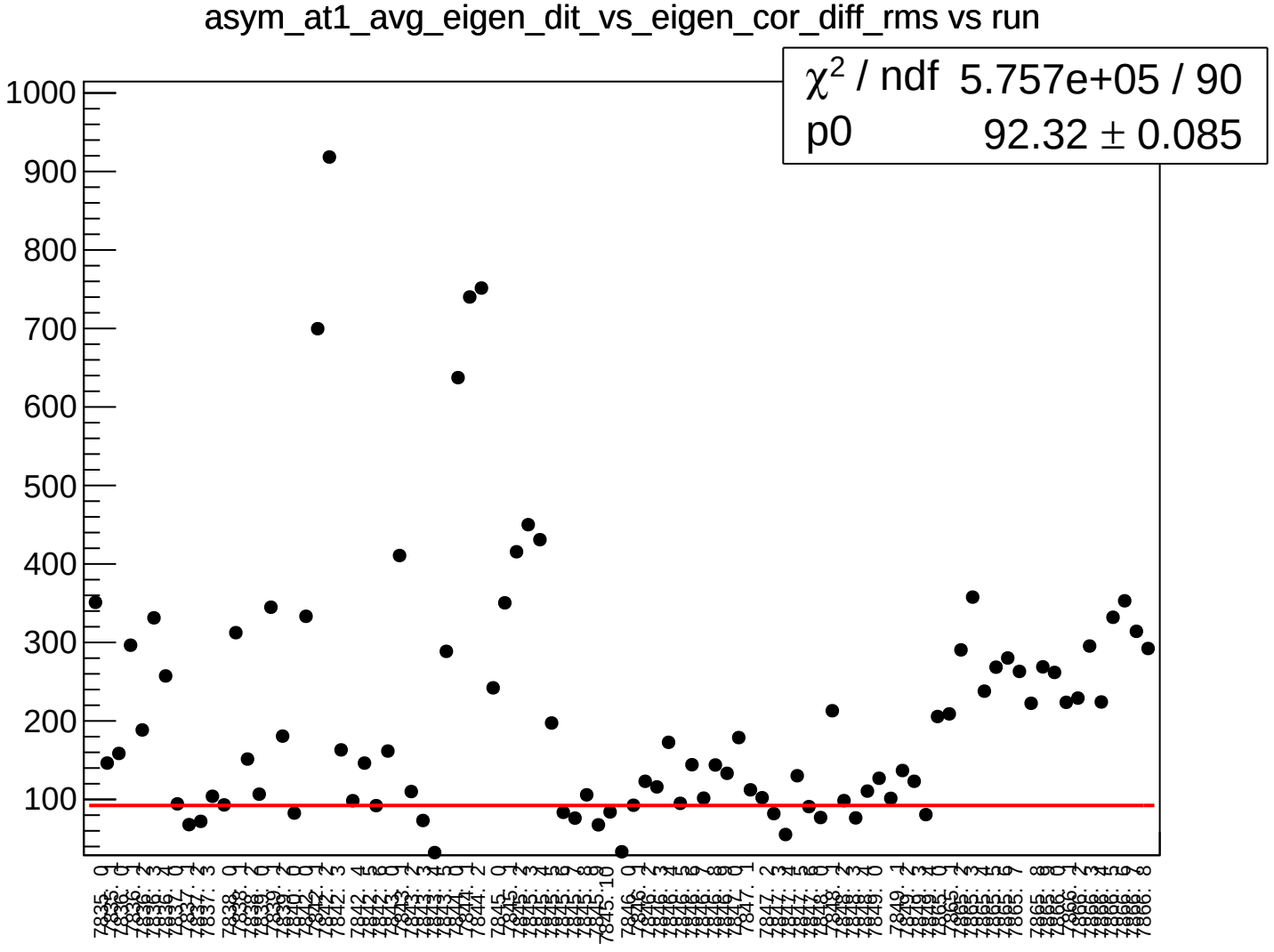

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.55e+04 / 90
p0 0.00479 ± 3.653e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

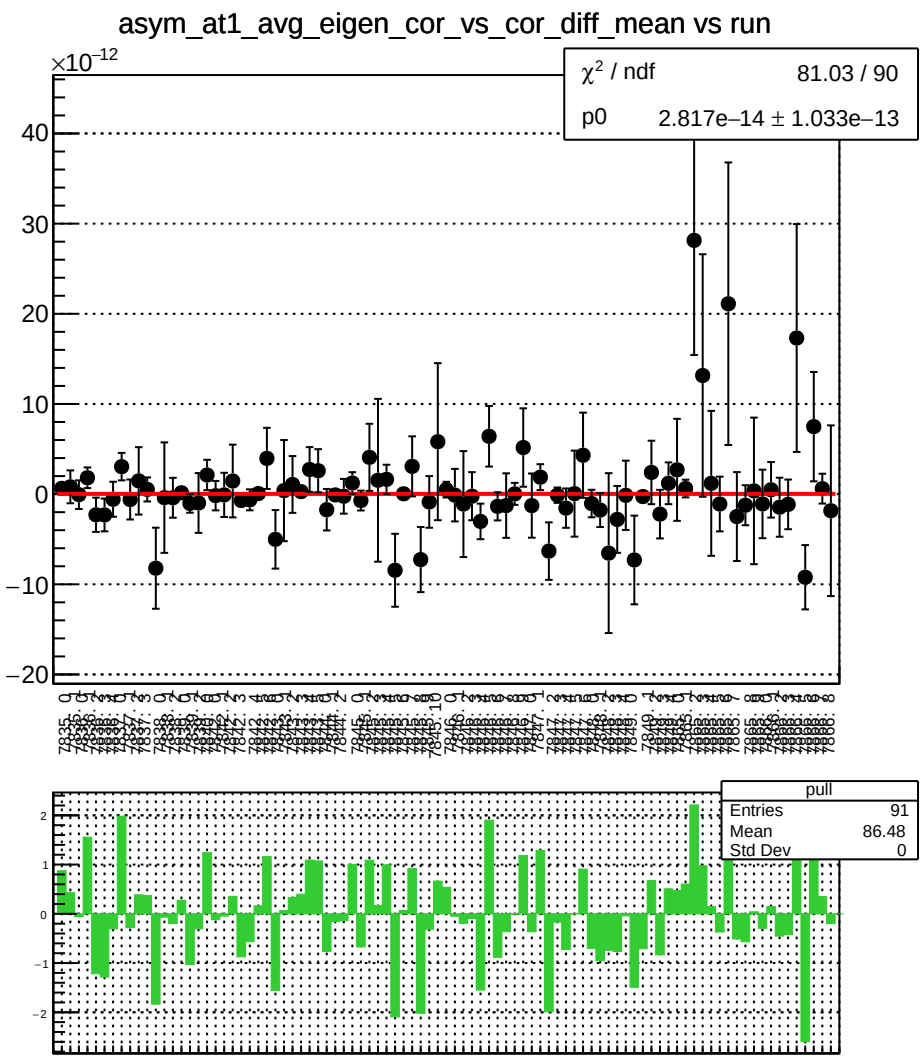

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.99 / 90
p0 0.2141 ± 0.1202
pull
Entries 91
Mean 191.9
Std Dev 0
pull1D
Entries 91
Mean 0.0465
Std Dev 1.004

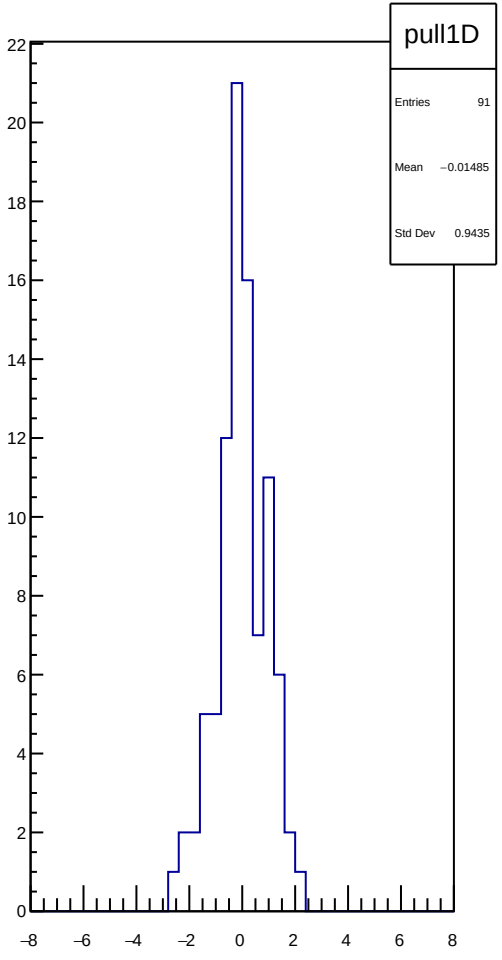

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.757e+05 / 90
p0 92.32 ± 0.085
1000
900
800
700
600
500
400
300
200
100

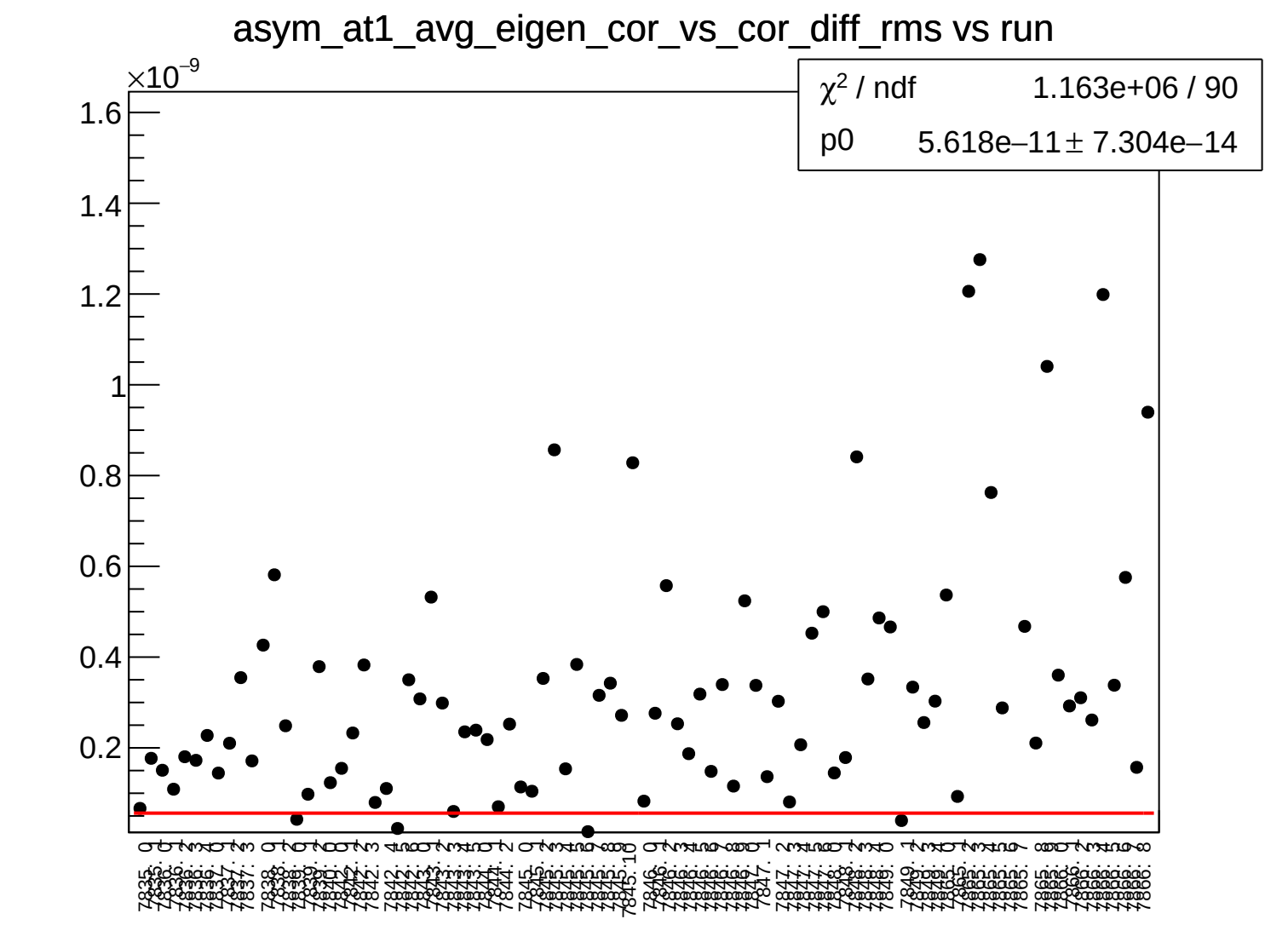

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.99 / 90
p0 0.2141 ± 0.1202
pull
Entries 91
Mean 191.9
Std Dev 0

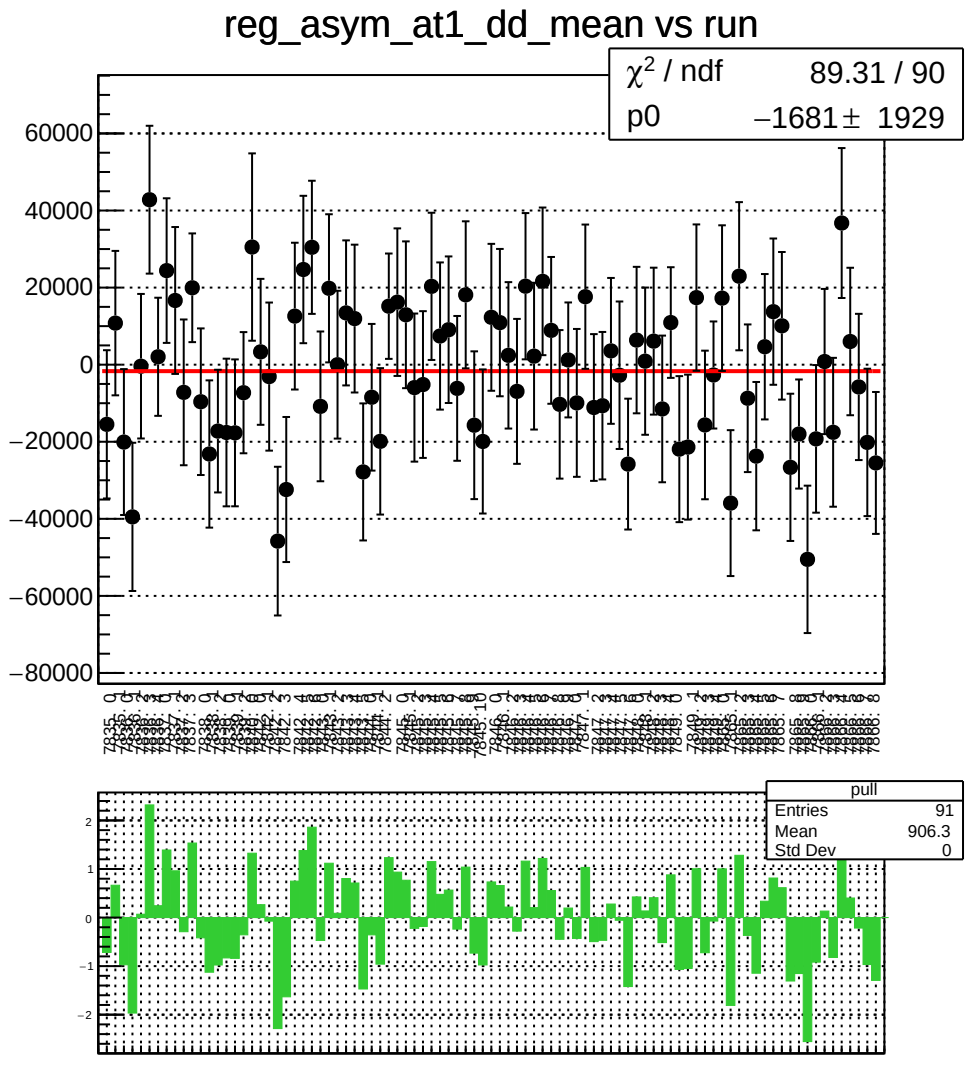

pull1D
Entries 91
Mean 0.0465
Std Dev 1.004

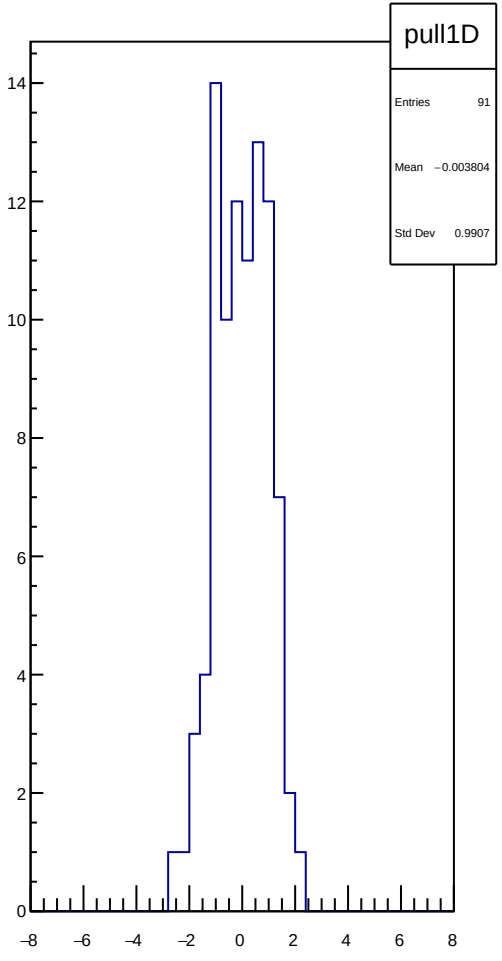

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.757e+05 / 90
p0 92.32 ± 0.085
1000
900
800
700
600
500
400
300
200
100

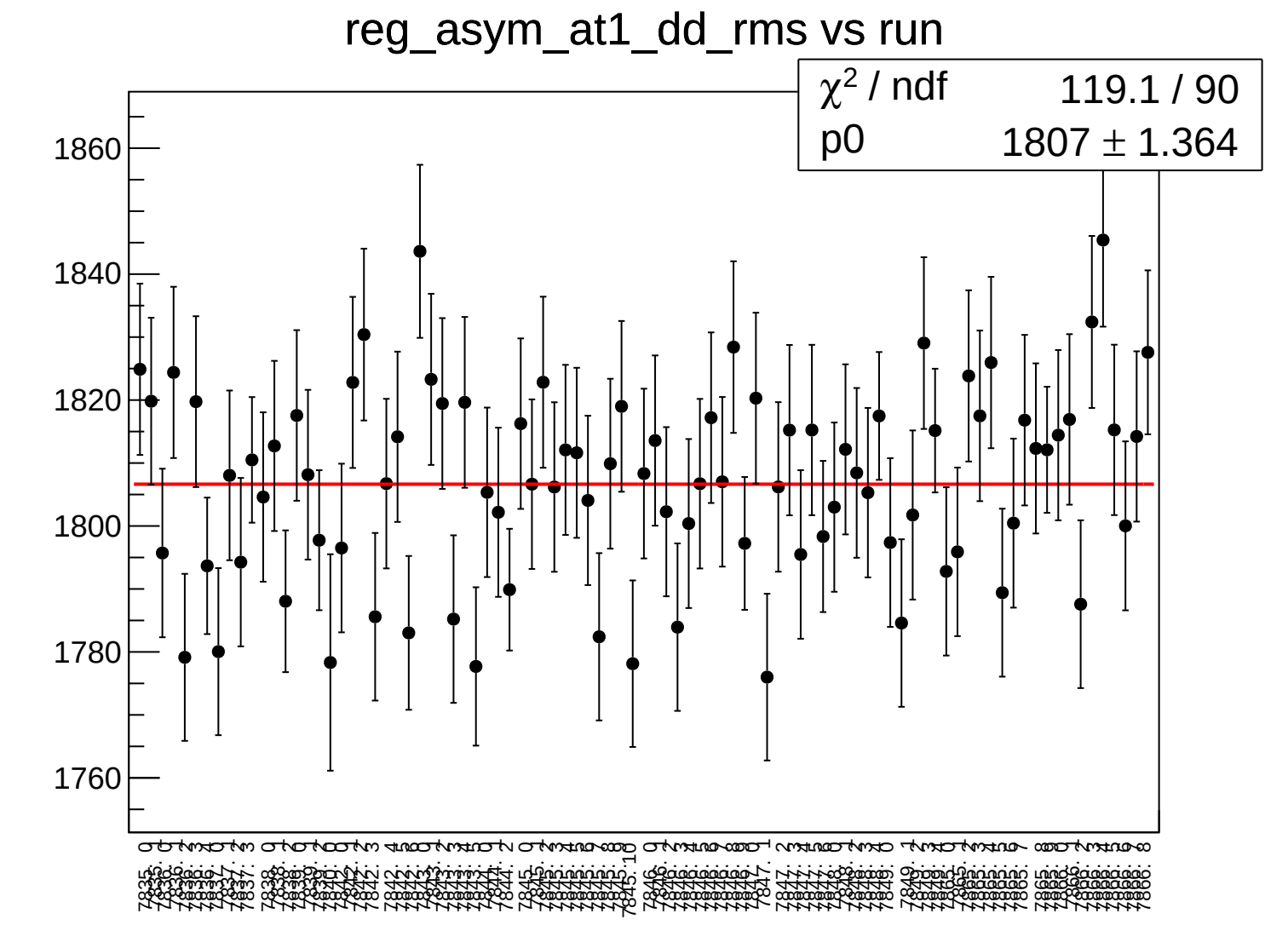

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.03 / 90
p0 2.817e−14 ± 1.033e−13
pull
Entries 91
Mean 86.48
Std Dev 0

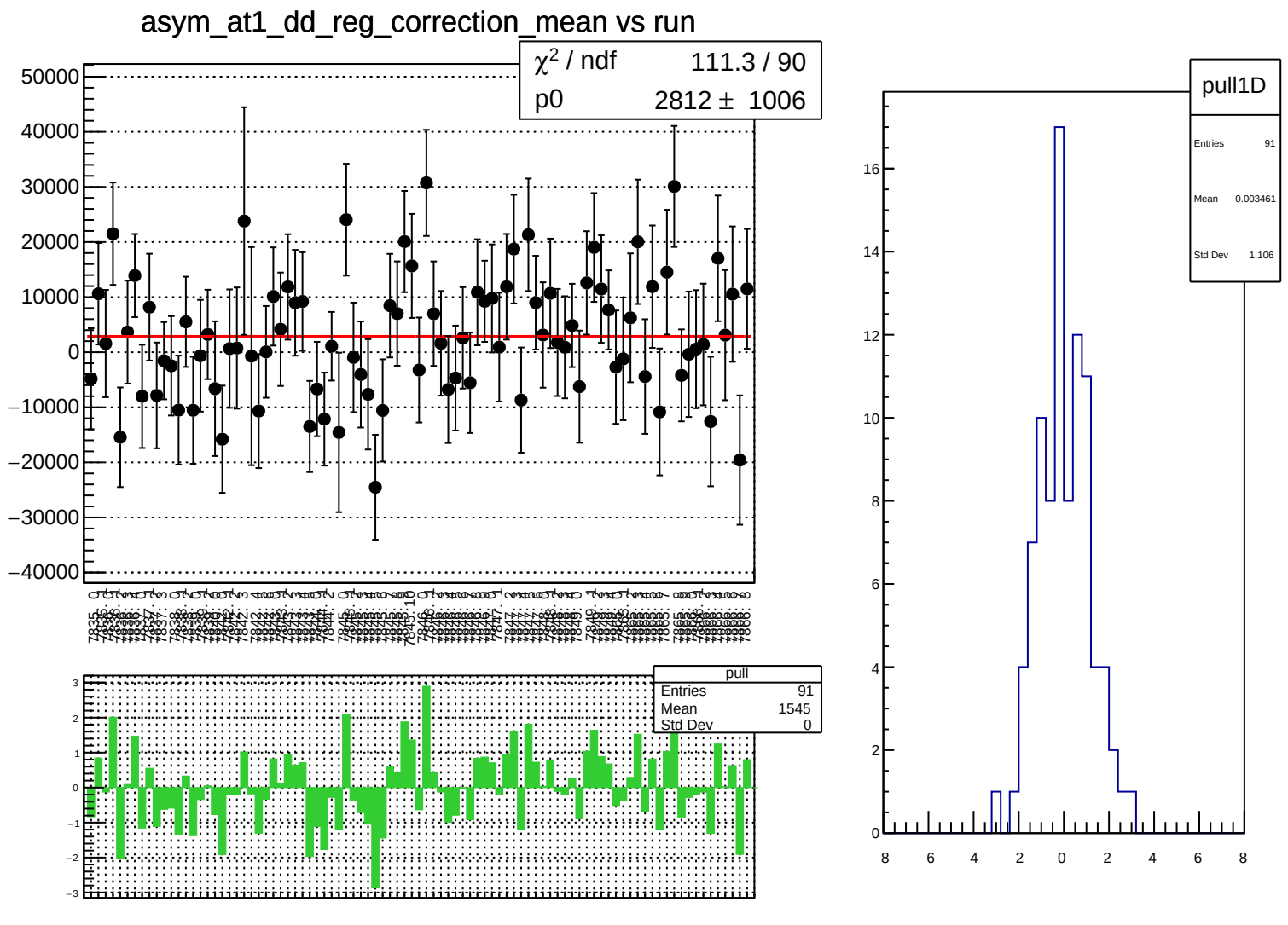

pull1D
Entries 91
Mean −0.01485
Std Dev 0.9435

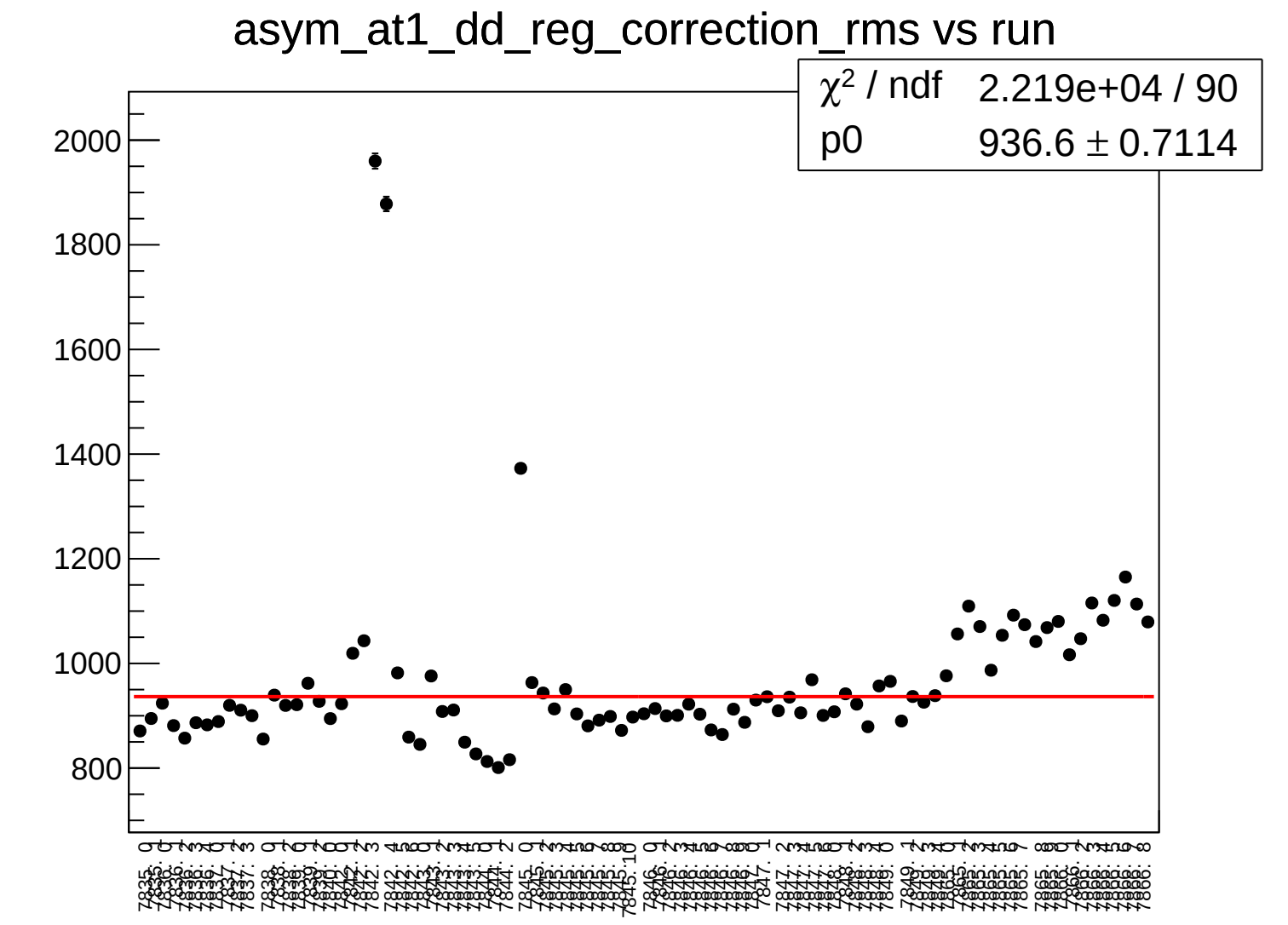

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.163e+06 / 90
p0 5.618e−11 ± 7.304e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

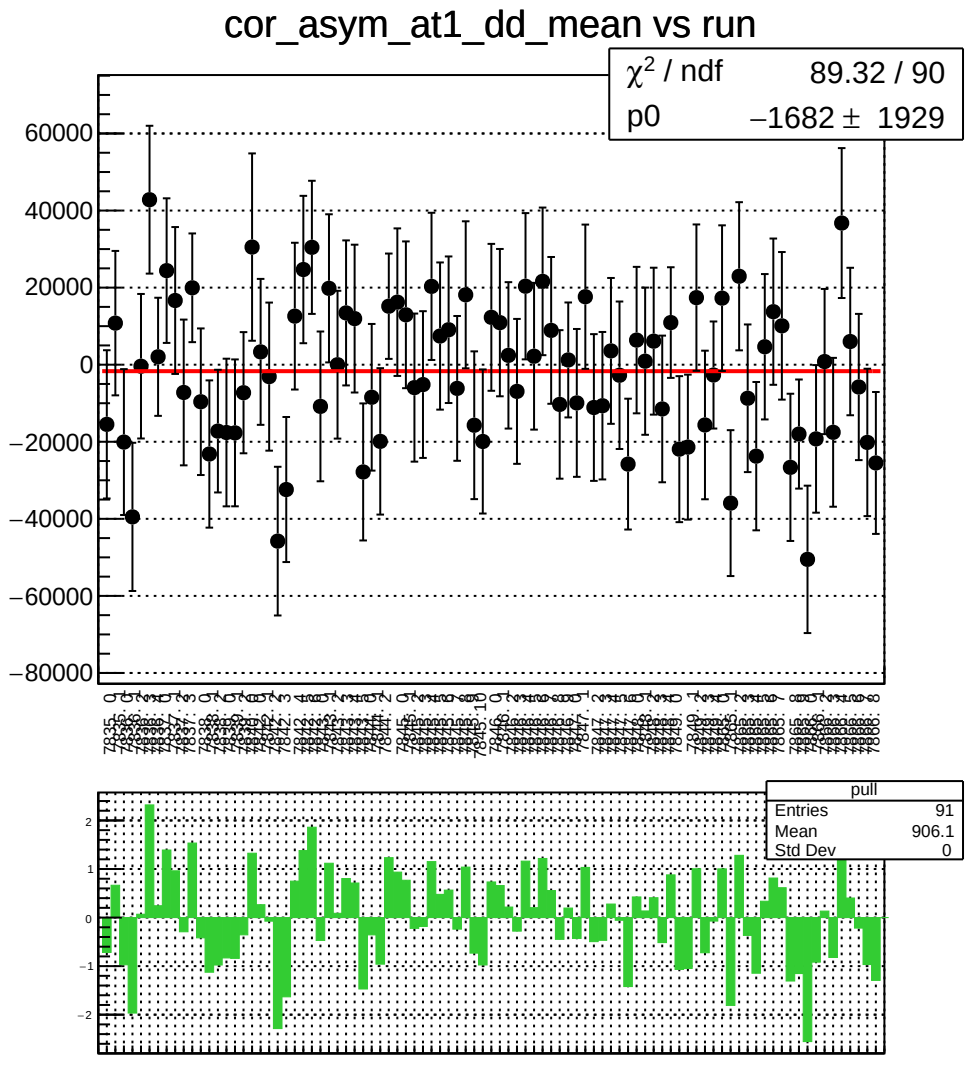

reg_asym_at1_dd_mean vs run
χ² / ndf 89.31 / 90
p0 −1681 ± 1929
pull
Entries 91
Mean 906.3
Std Dev 0

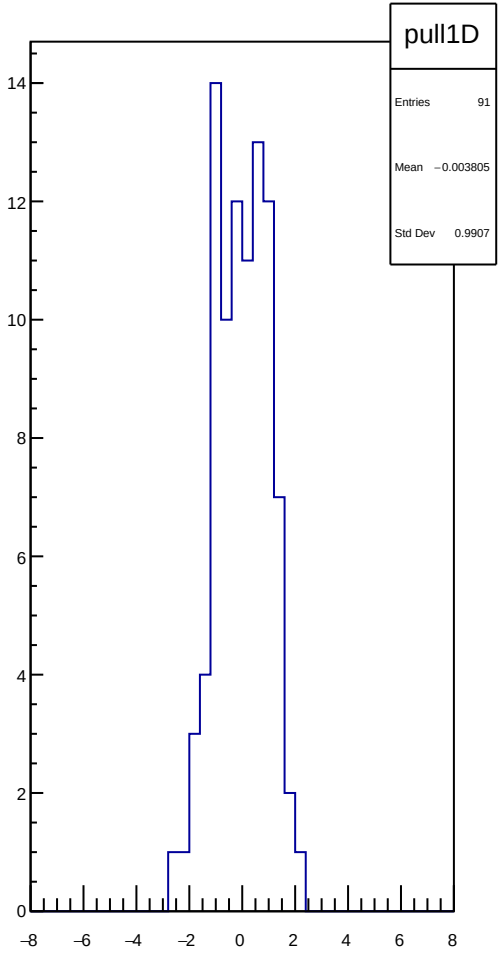

pull1D
Entries 91
Mean −0.003804
Std Dev 0.9907

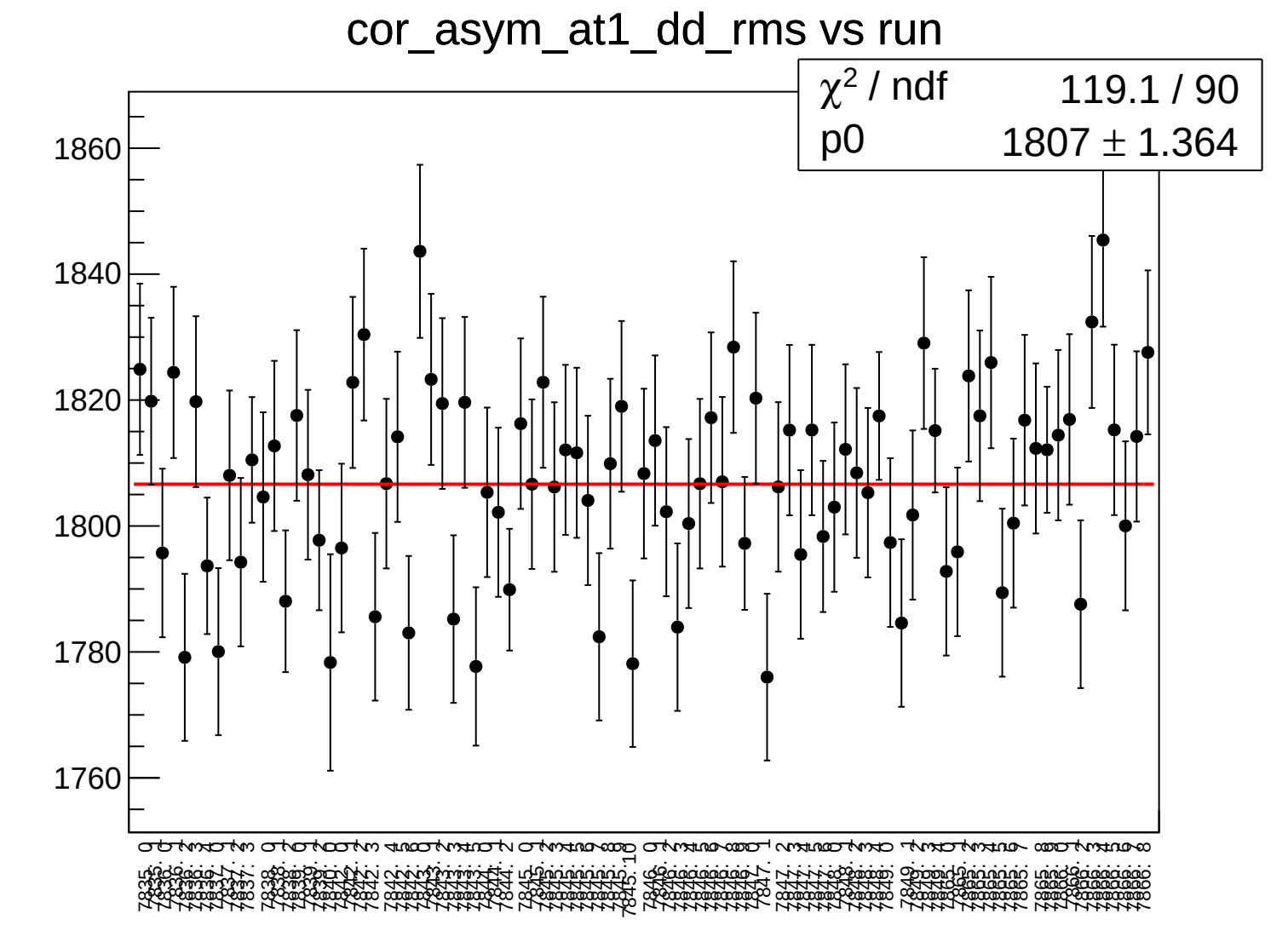

reg_asym_at1_dd_rms vs run
χ^2 / ndf 119.1 / 90
p0 1807 ± 1.364
1860
1840
1820
1800
1780
1760

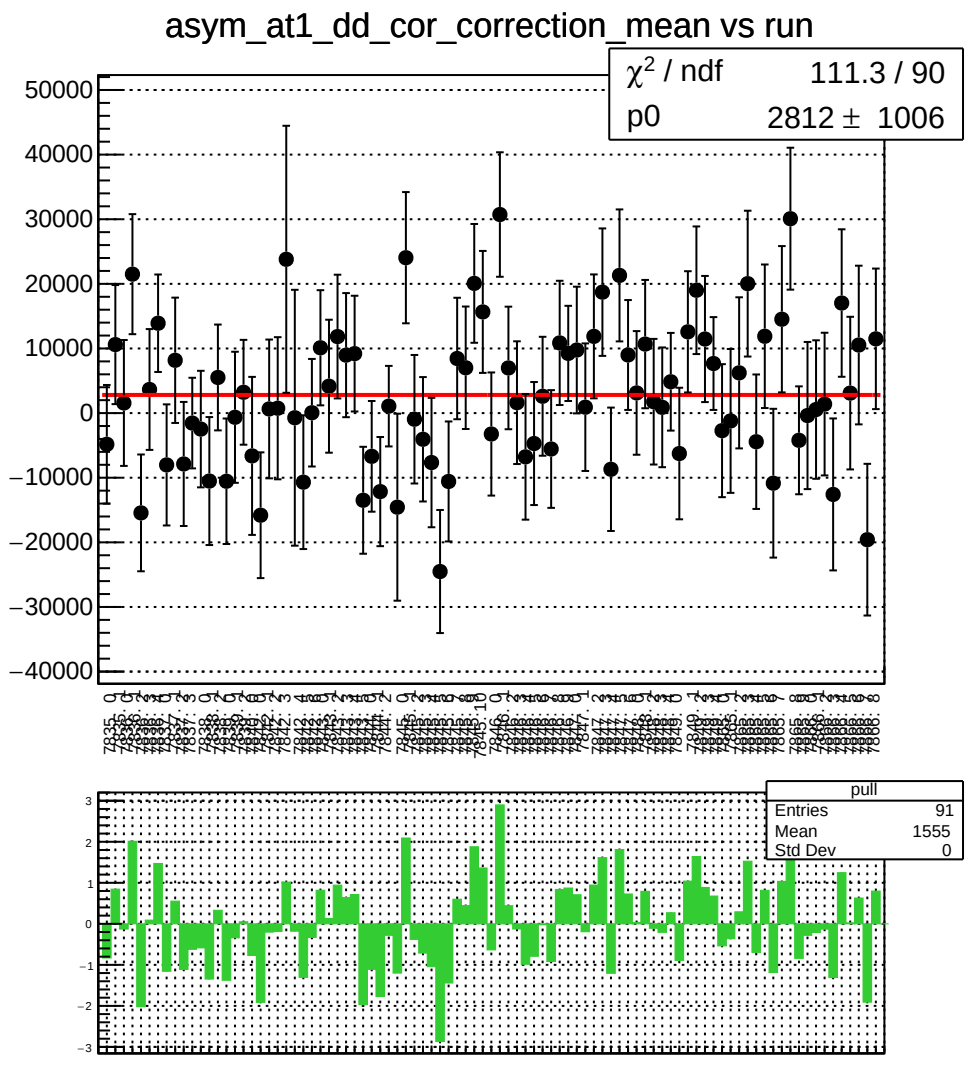

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 111.3 / 90
p0 2812 ± 1006
pull
Entries 91
Mean 1545
Std Dev 0
pull1D
Entries 91
Mean 0.003461
Std Dev 1.106

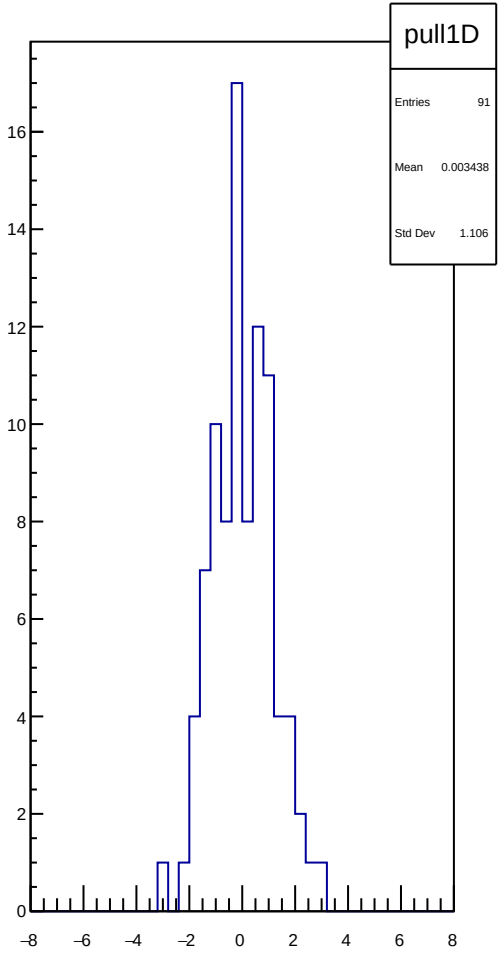

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2.219e+04 / 90
p0 936.6 ± 0.7114
2000
1800
1600
1400
1200
1000
800

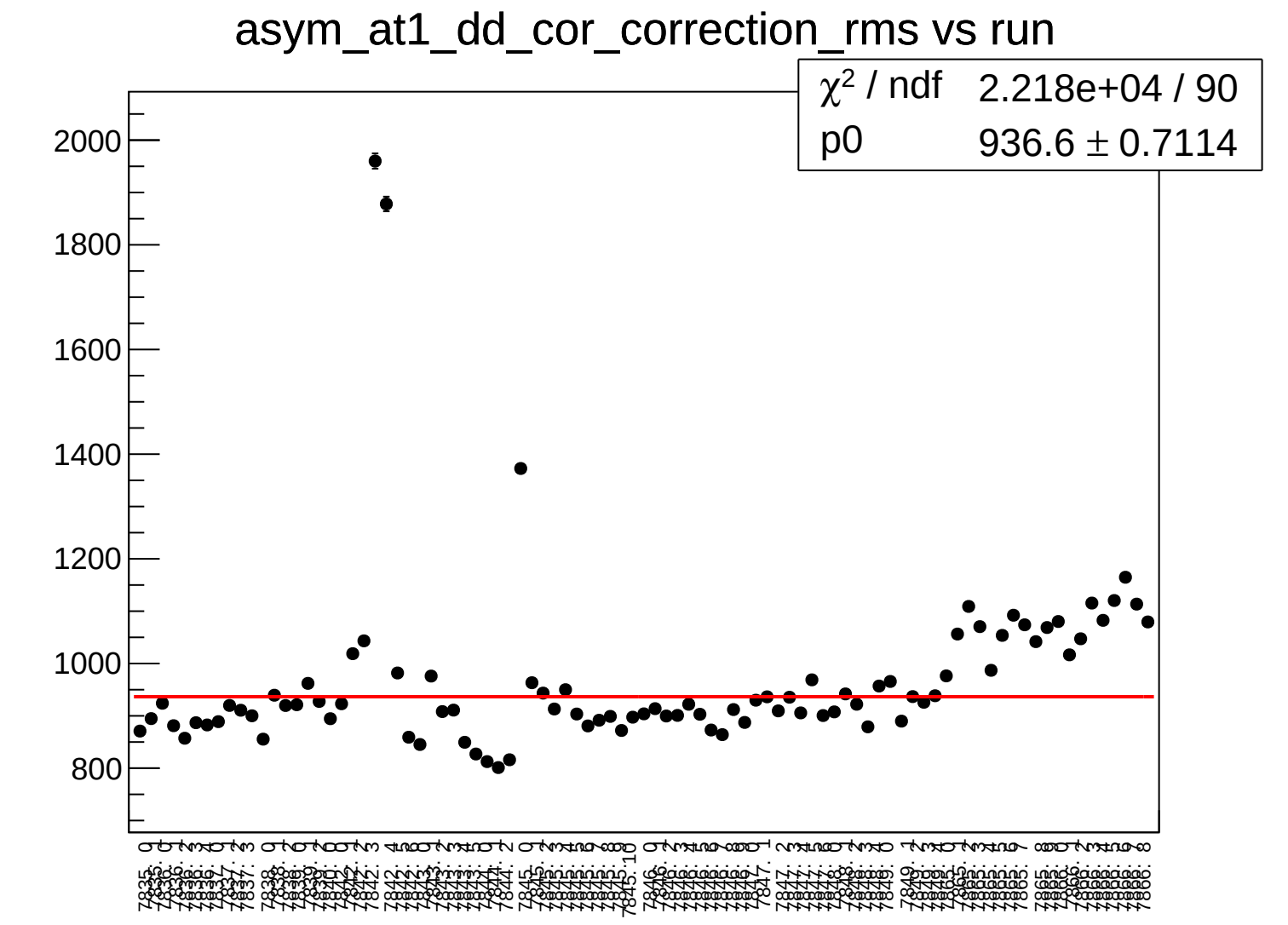

cor_asym_at1_dd_mean vs run
χ² / ndf 89.32 / 90
p0 −1682 ± 1929
pull
Entries 91
Mean 906.1
Std Dev 0

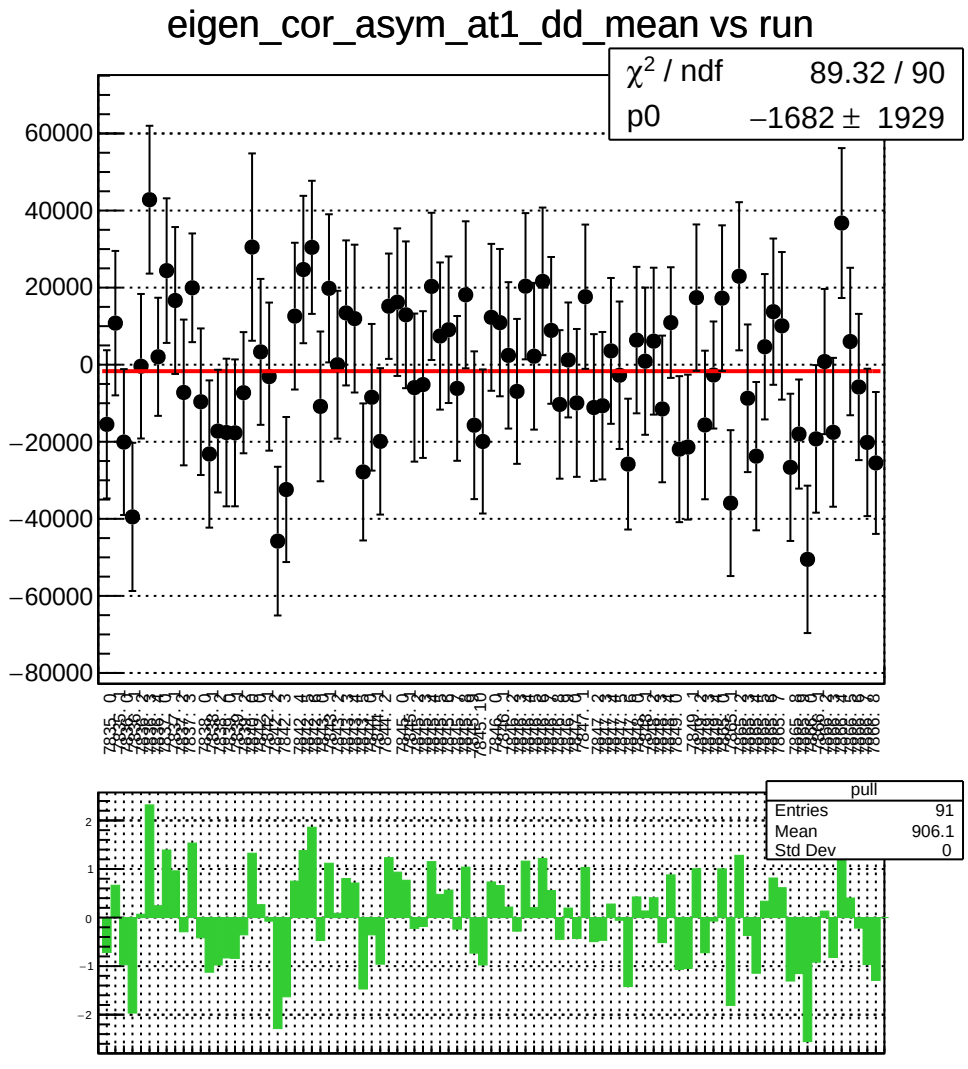

pull1D
Entries 91
Mean −0.003805
Std Dev 0.9907

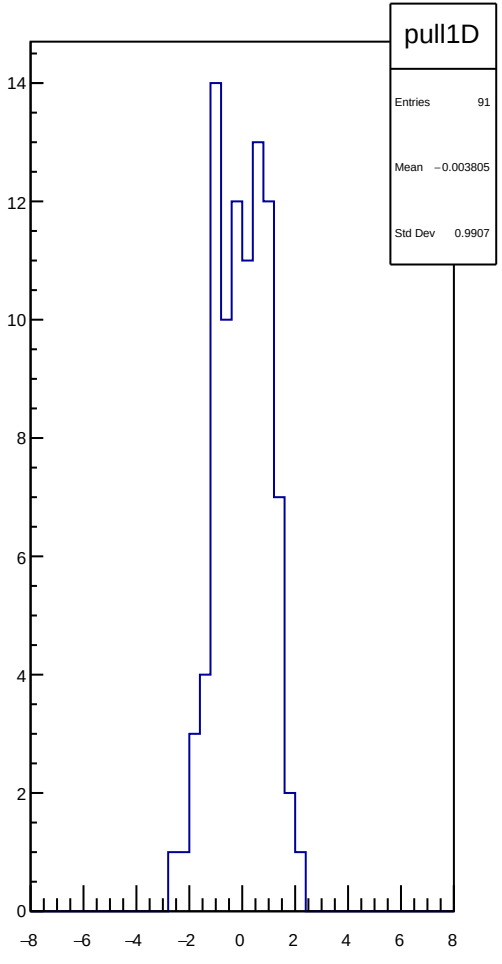

cor_asym_at1_dd_rms vs run
χ^2 / ndf 119.1 / 90
p0 1807 ± 1.364
1860
1840
1820
1800
1780
1760

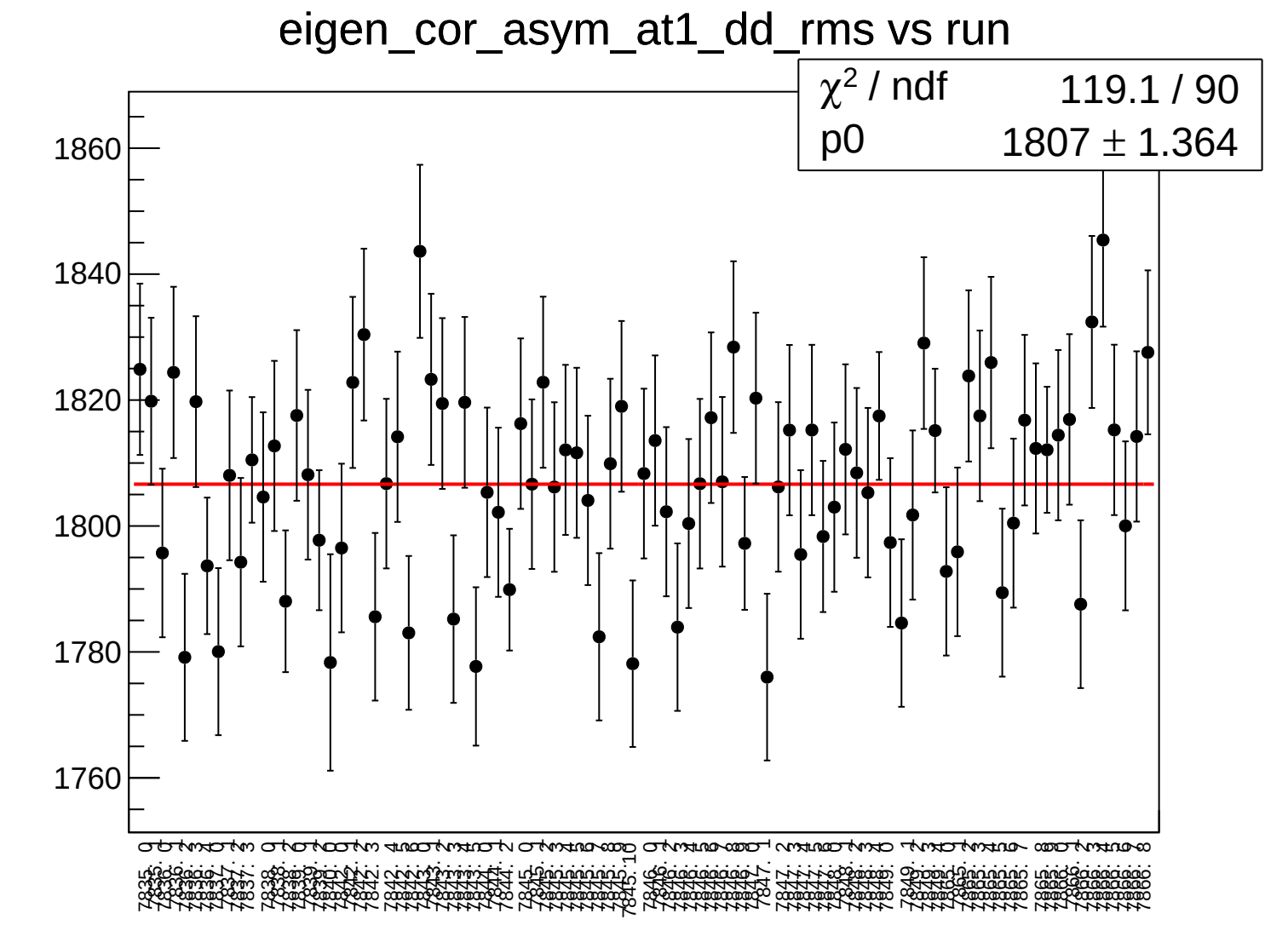

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 111.3 / 90
p0 2812 ± 1006
pull
Entries 91
Mean 1555
Std Dev 0

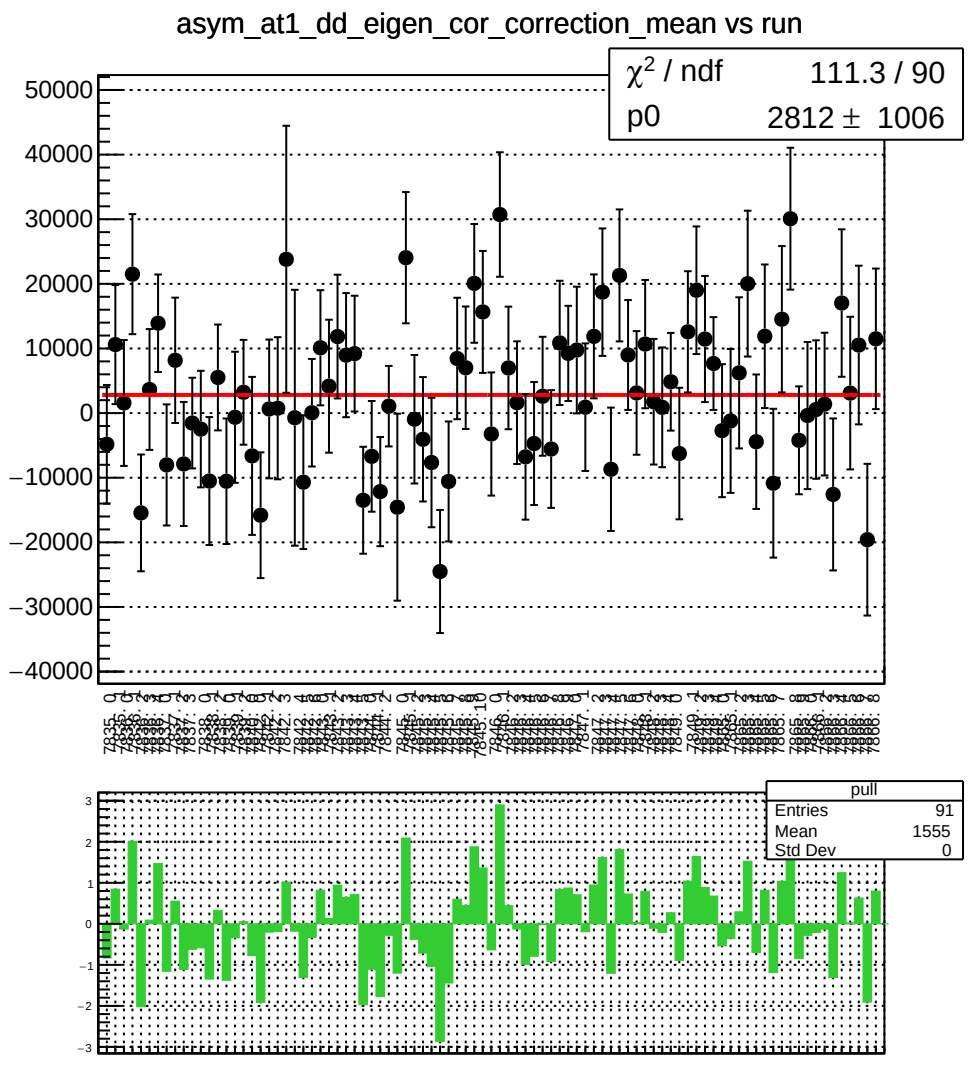

pull1D
Entries 91
Mean 0.003438
Std Dev 1.106

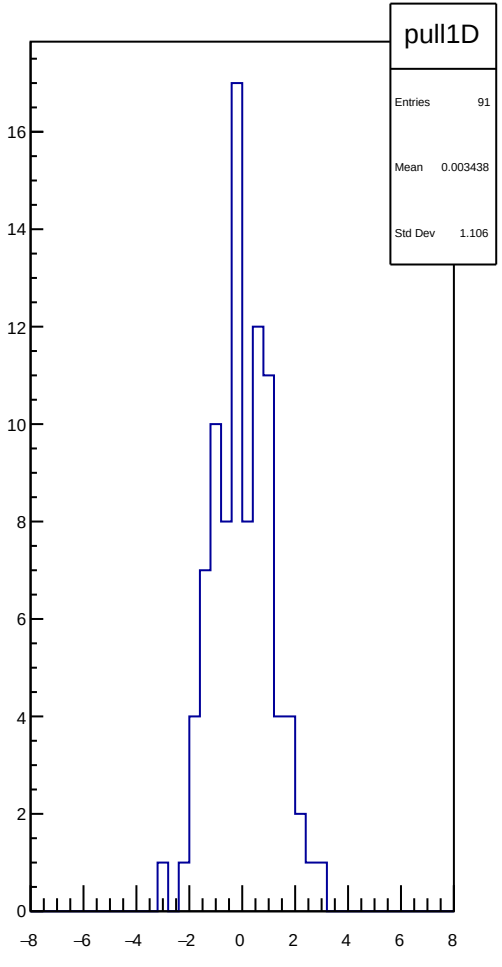

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2.218e+04 / 90
p0 936.6 ± 0.7114
2000
1800
1600
1400
1200
1000
800

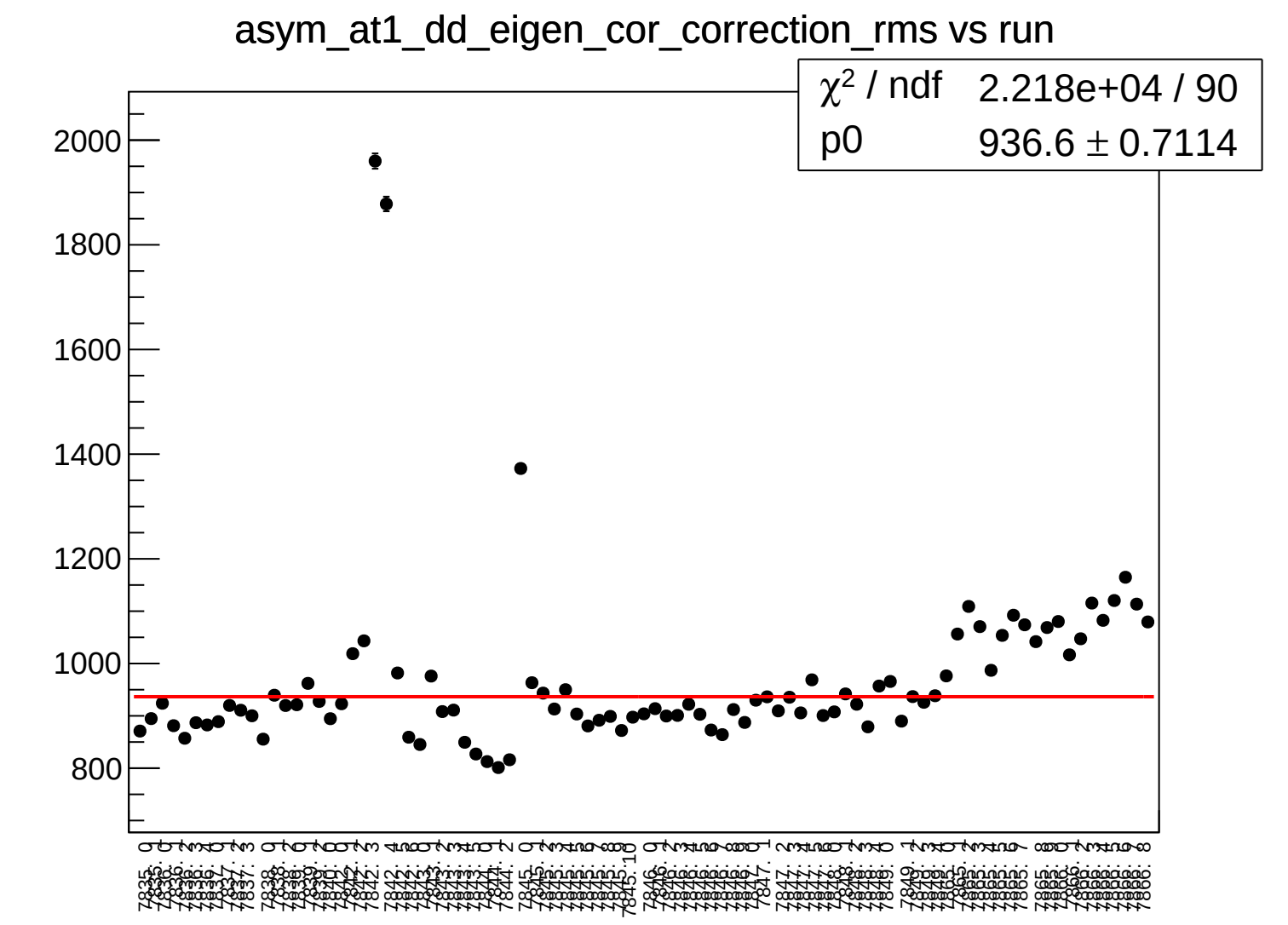

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 89.32 / 90
p0 −1682 ± 1929
pull
Entries 91
Mean 906.1
Std Dev 0

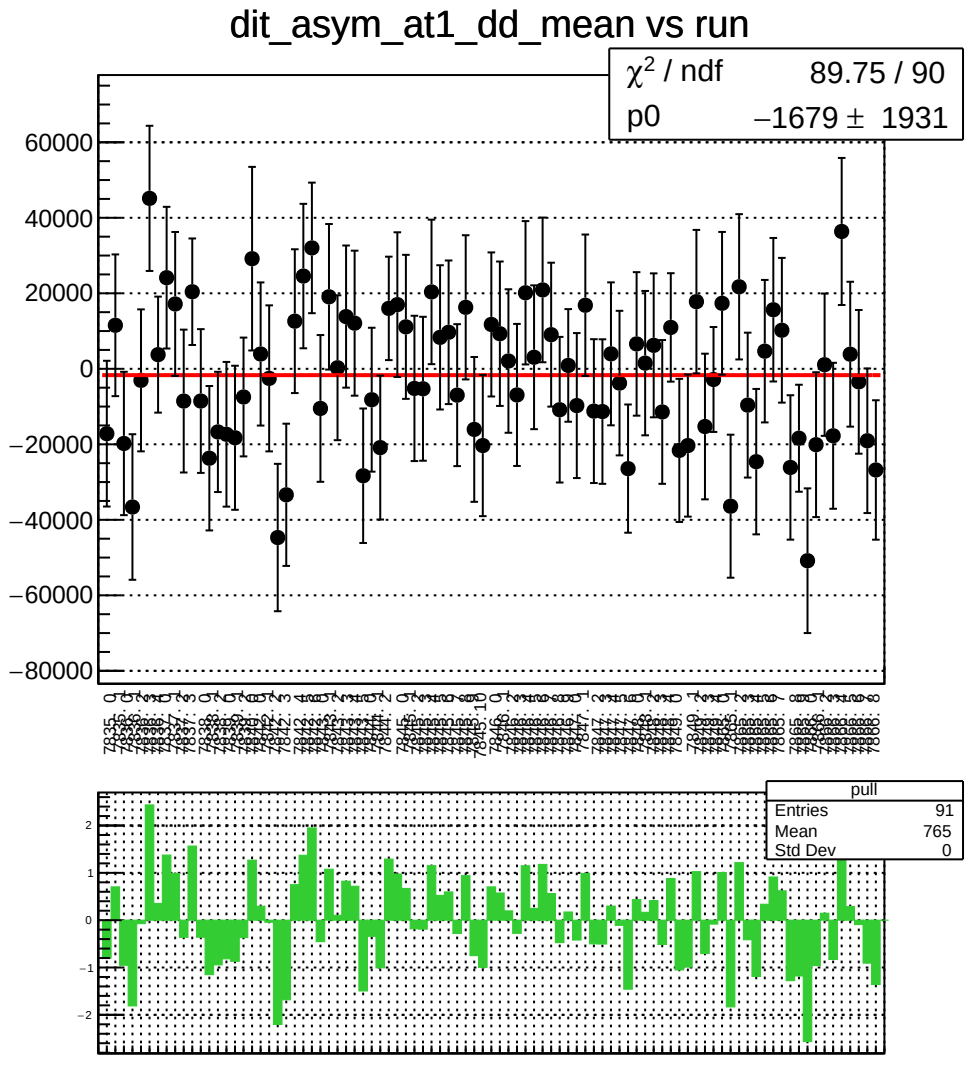

pull1D
Entries 91
Mean −0.003805
Std Dev 0.9907

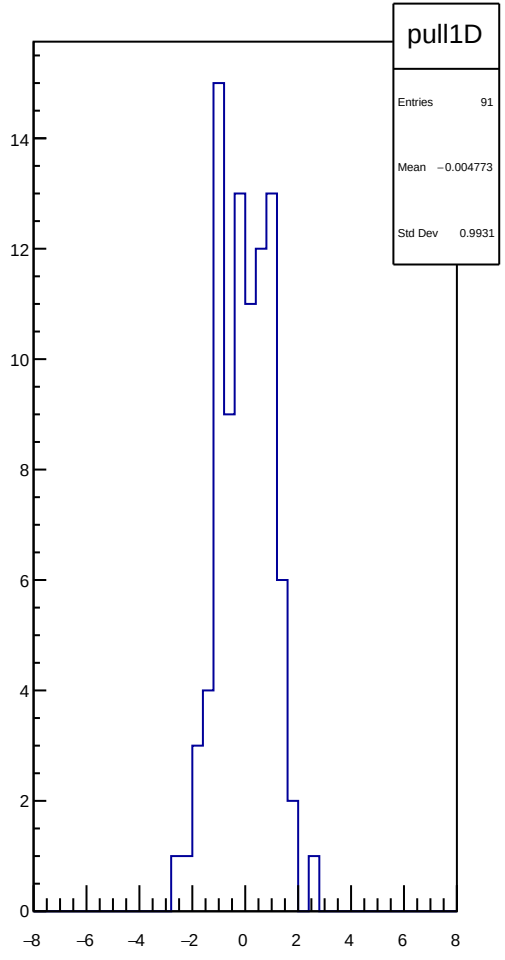

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 119.1 / 90
p0 1807 ± 1.364
1860
1840
1820
1800
1780
1760

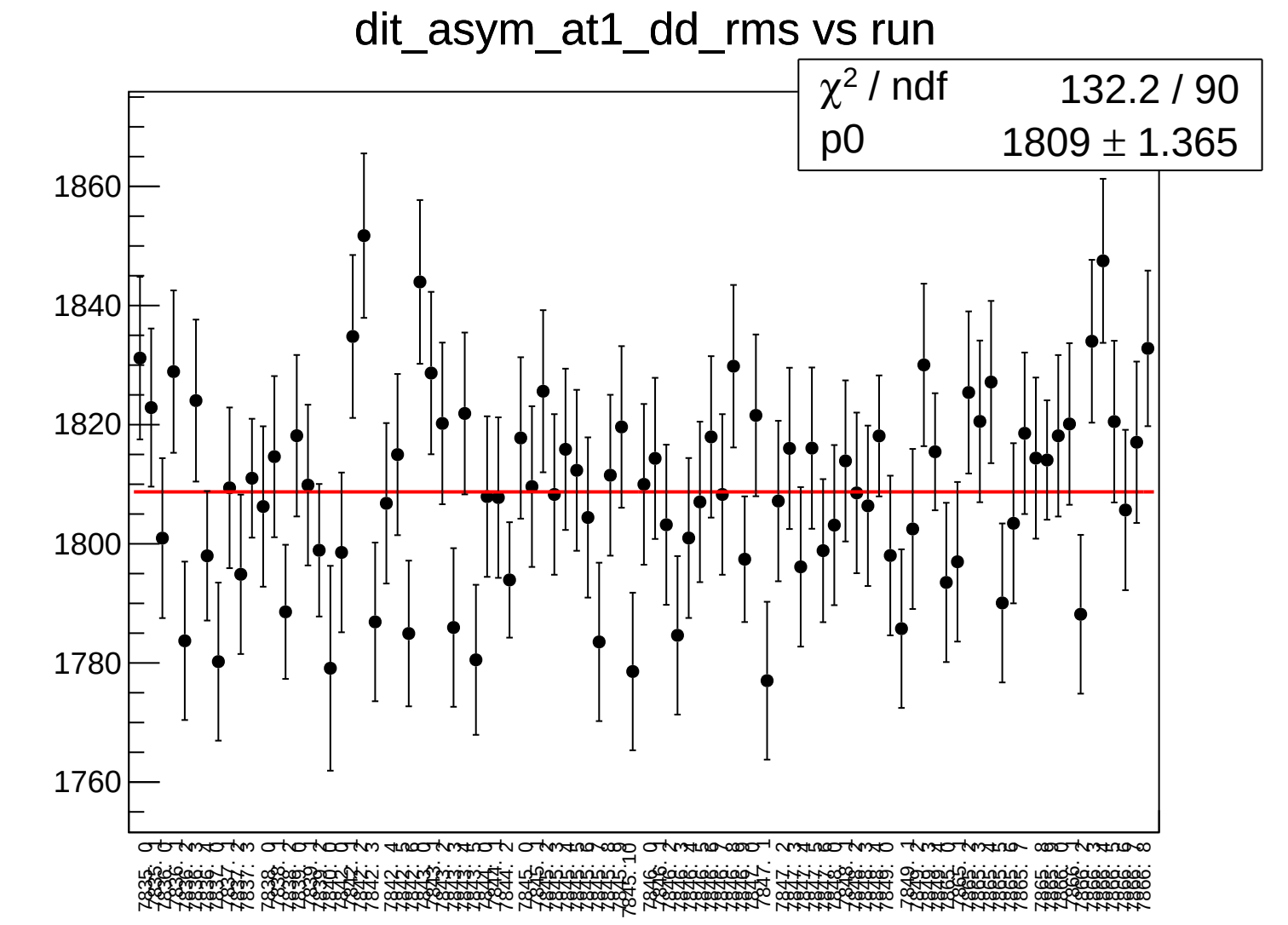

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.3 / 90
p0 2812 ± 1006
pull
Entries 91
Mean 1555
Std Dev 0

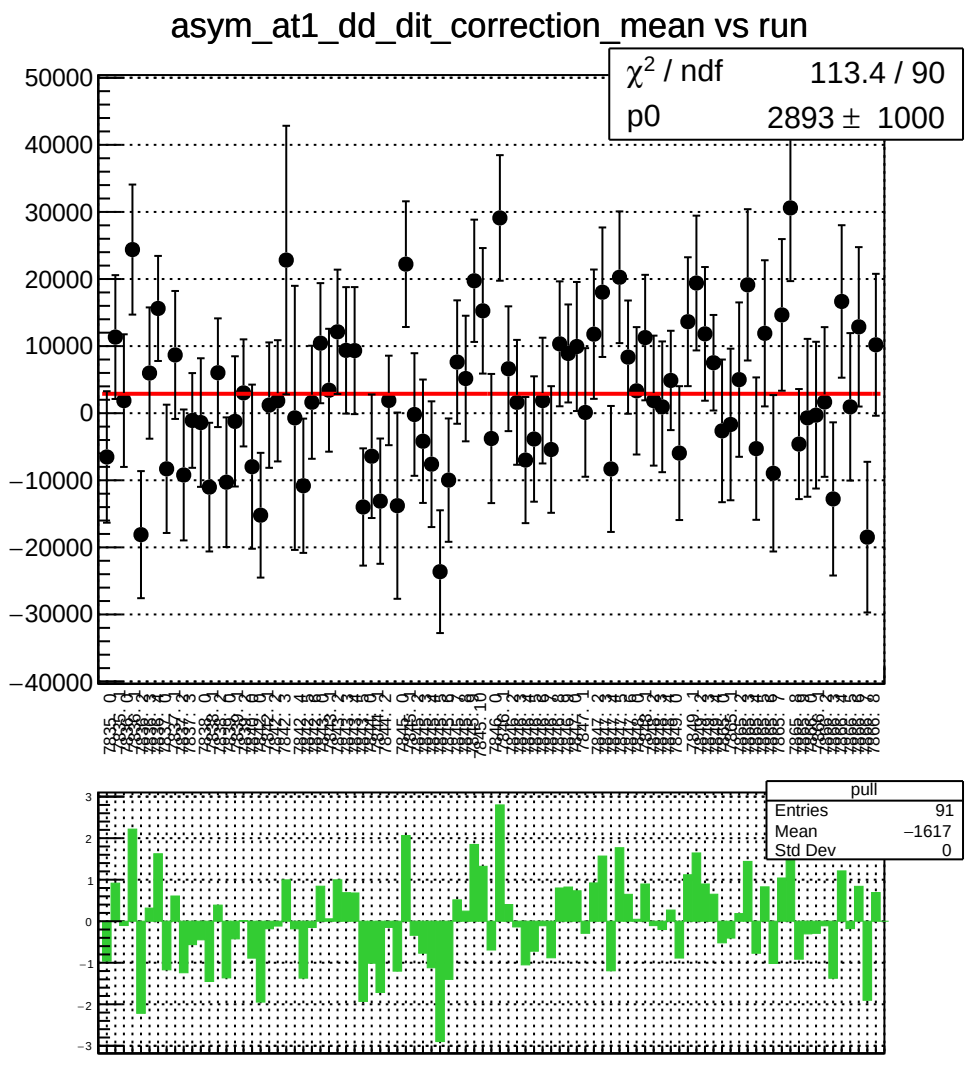

pull1D
Entries 91
Mean 0.003438
Std Dev 1.106

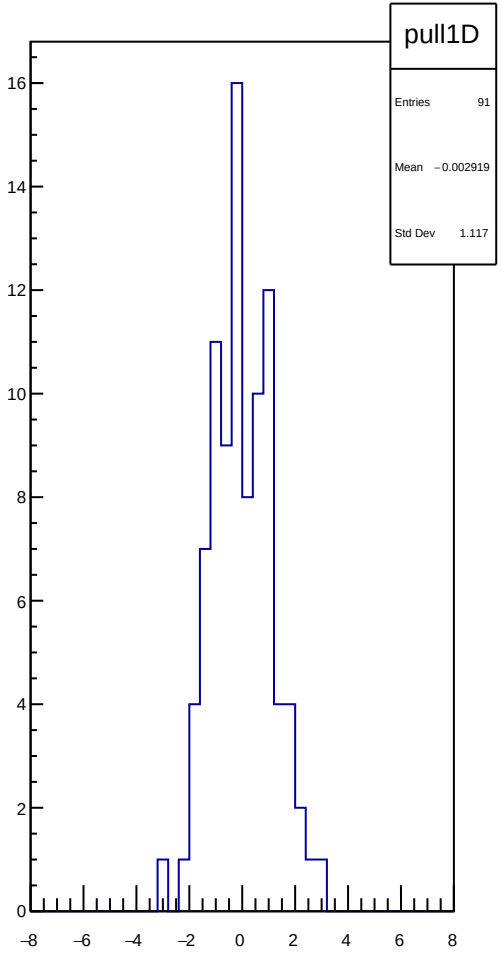

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.218e+04 / 90
p0 936.6 ± 0.7114
2000
1800
1600
1400
1200
1000
800

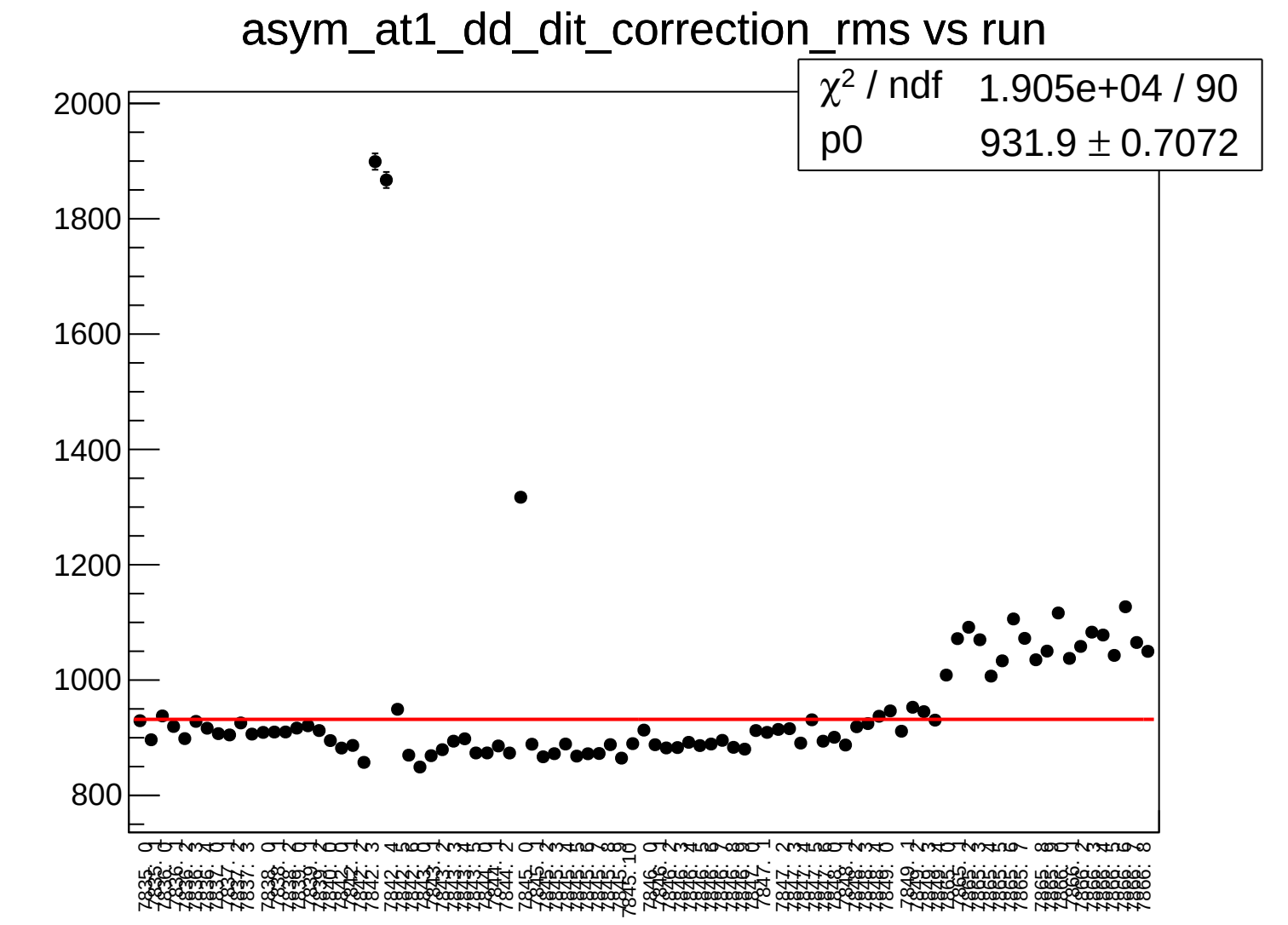

dit_asym_at1_dd_mean vs run
χ² / ndf 89.75 / 90
p0 −1679 ± 1931
pull
Entries 91
Mean 765
Std Dev 0

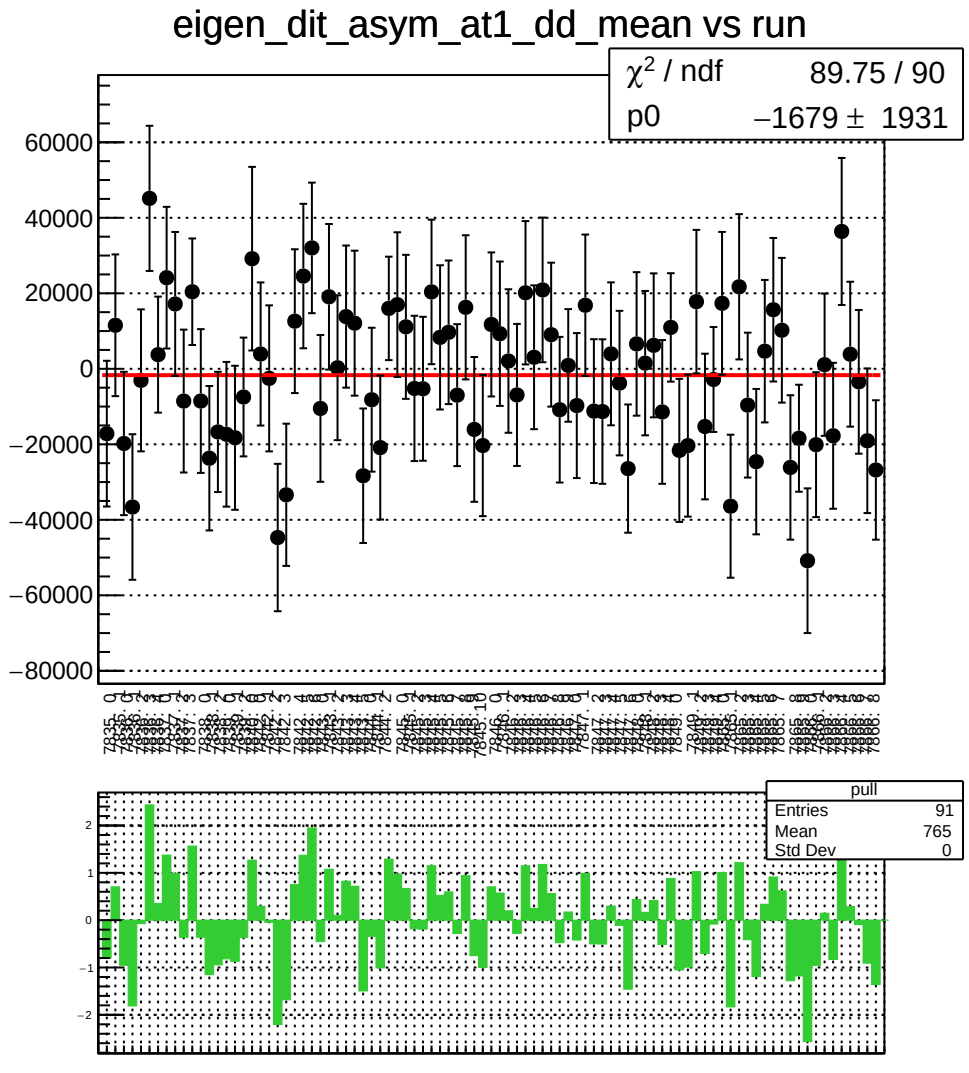

pull1D
Entries 91
Mean −0.004773
Std Dev 0.9931

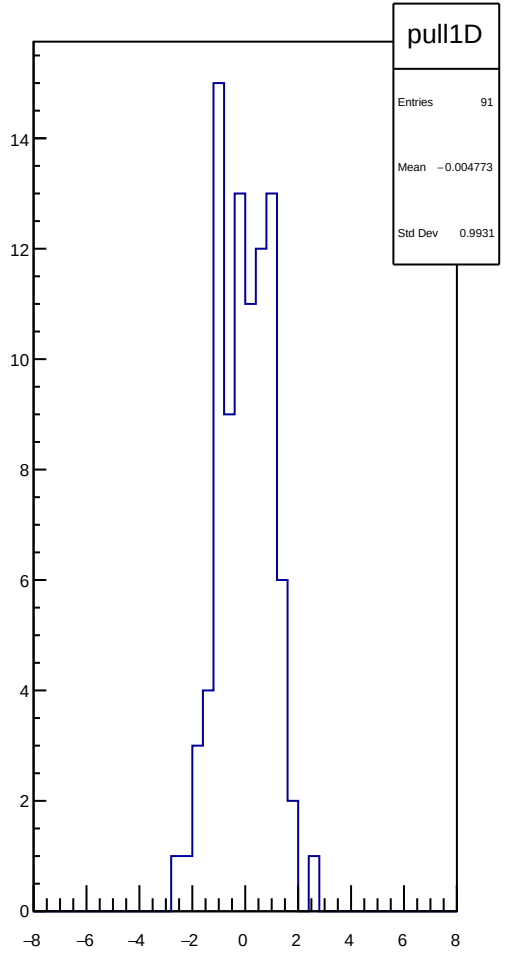

dit_asym_at1_dd_rms vs run
χ² / ndf 132.2 / 90
p0 1809 ± 1.365
1860
1840
1820
1800
1780
1760

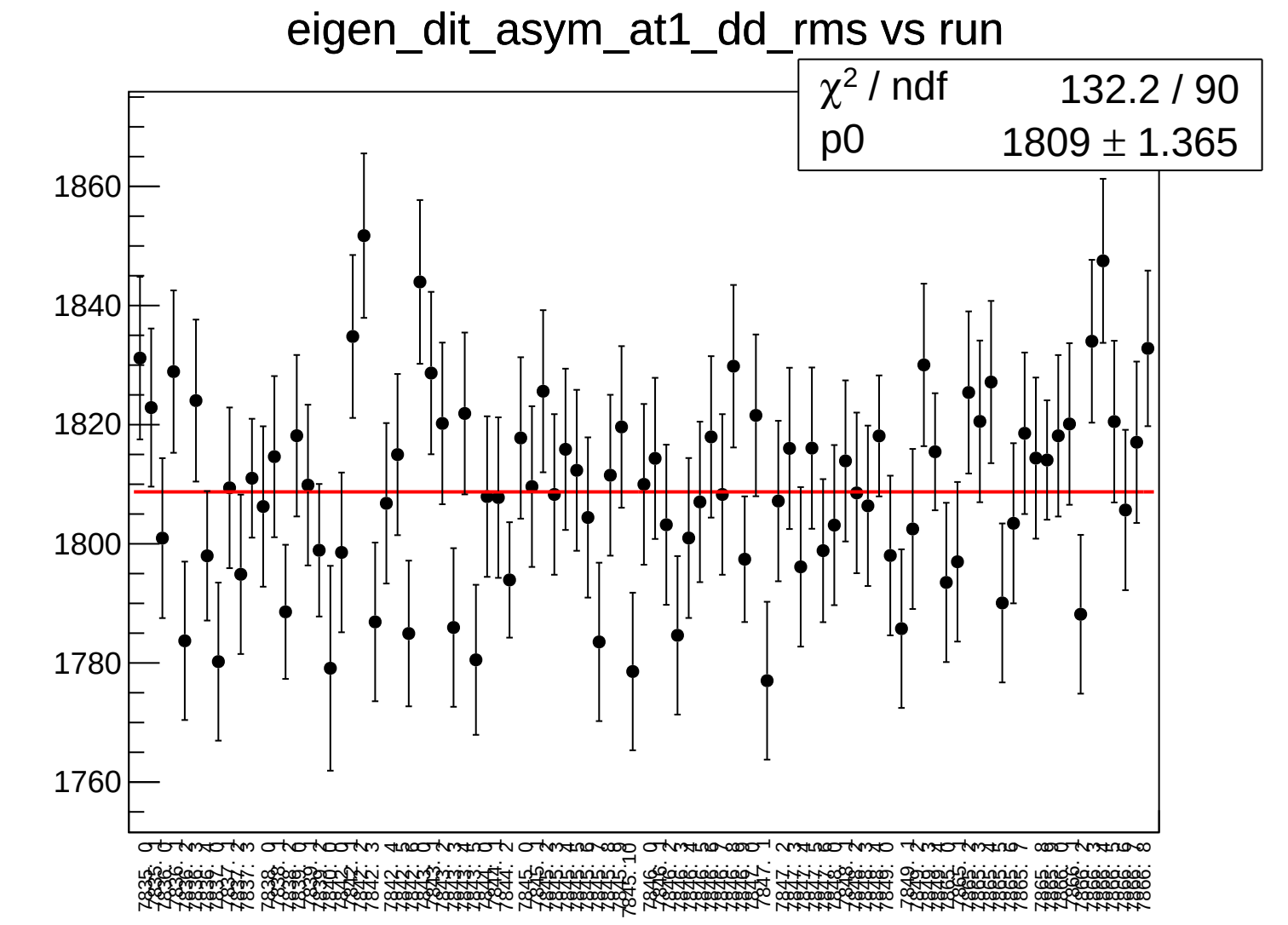

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 113.4 / 90
p0 2893 ± 1000
pull
Entries 91
Mean −1617
Std Dev 0

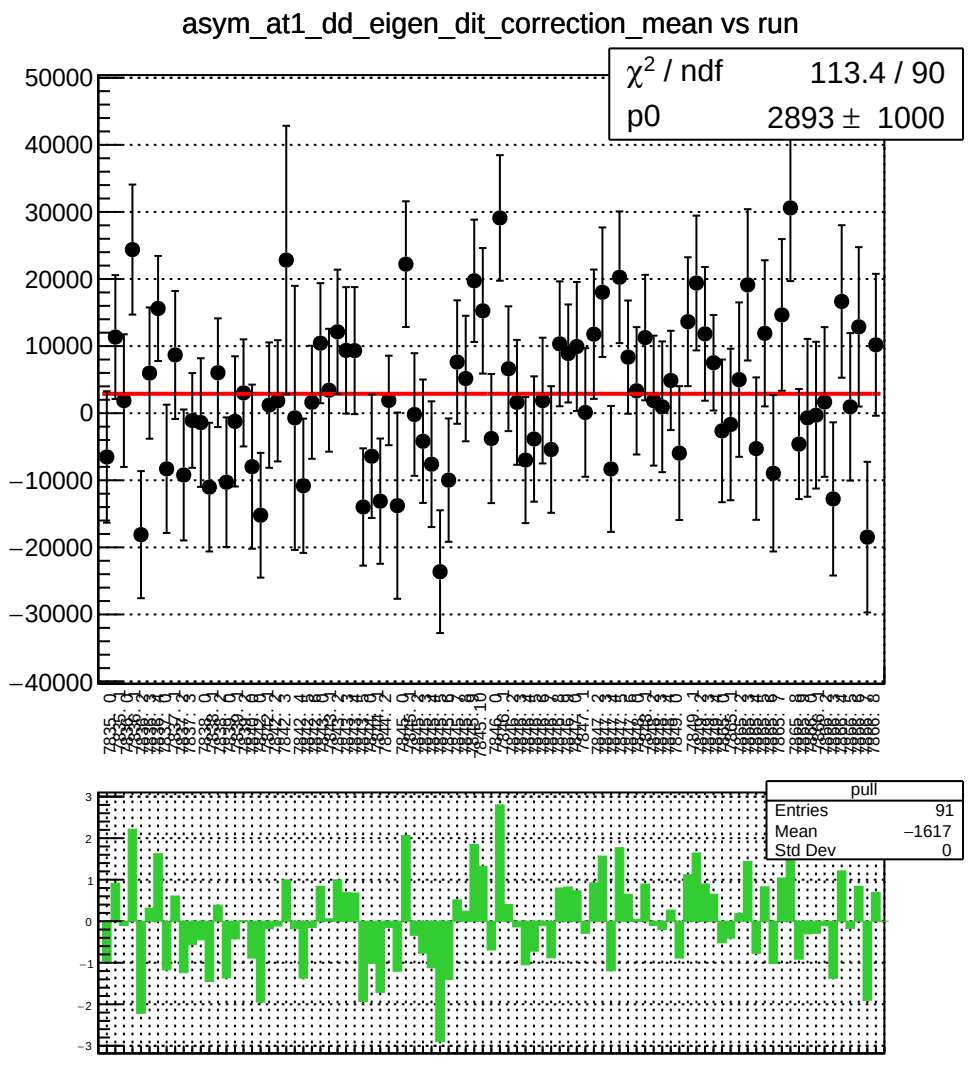

pull1D
Entries 91
Mean −0.002919
Std Dev 1.117

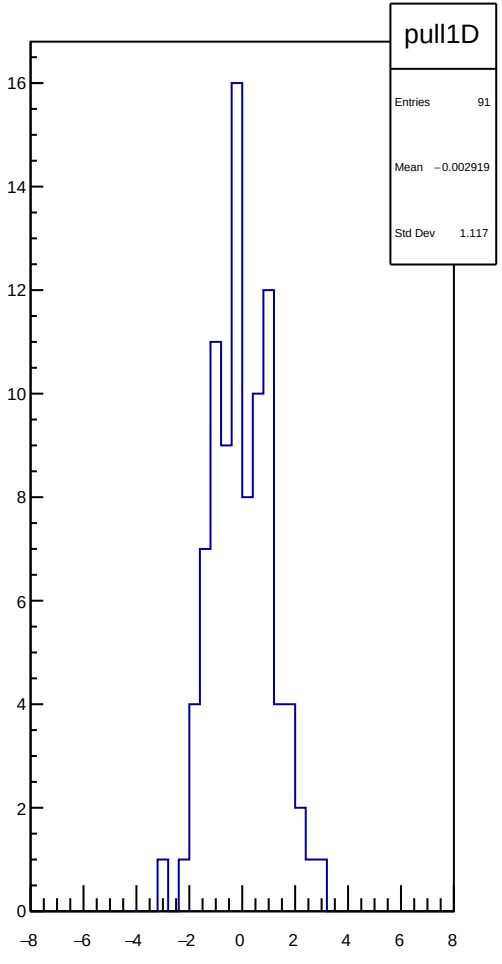

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.905e+04 / 90
p0 931.9 ± 0.7072
2000
1800
1600
1400
1200
1000
800

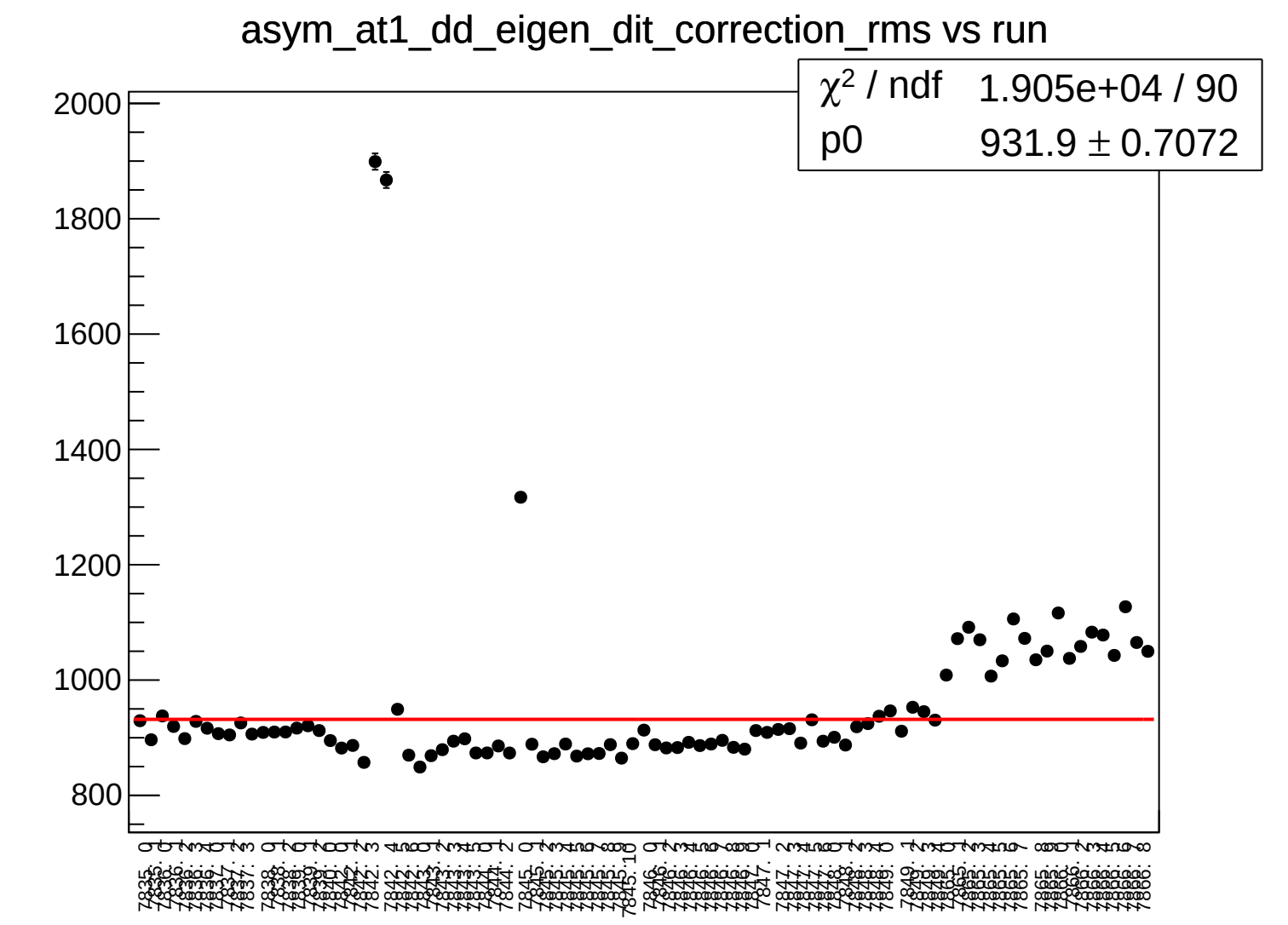

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 89.75 / 90
p0 −1679 ± 1931
pull
Entries 91
Mean 765
Std Dev 0

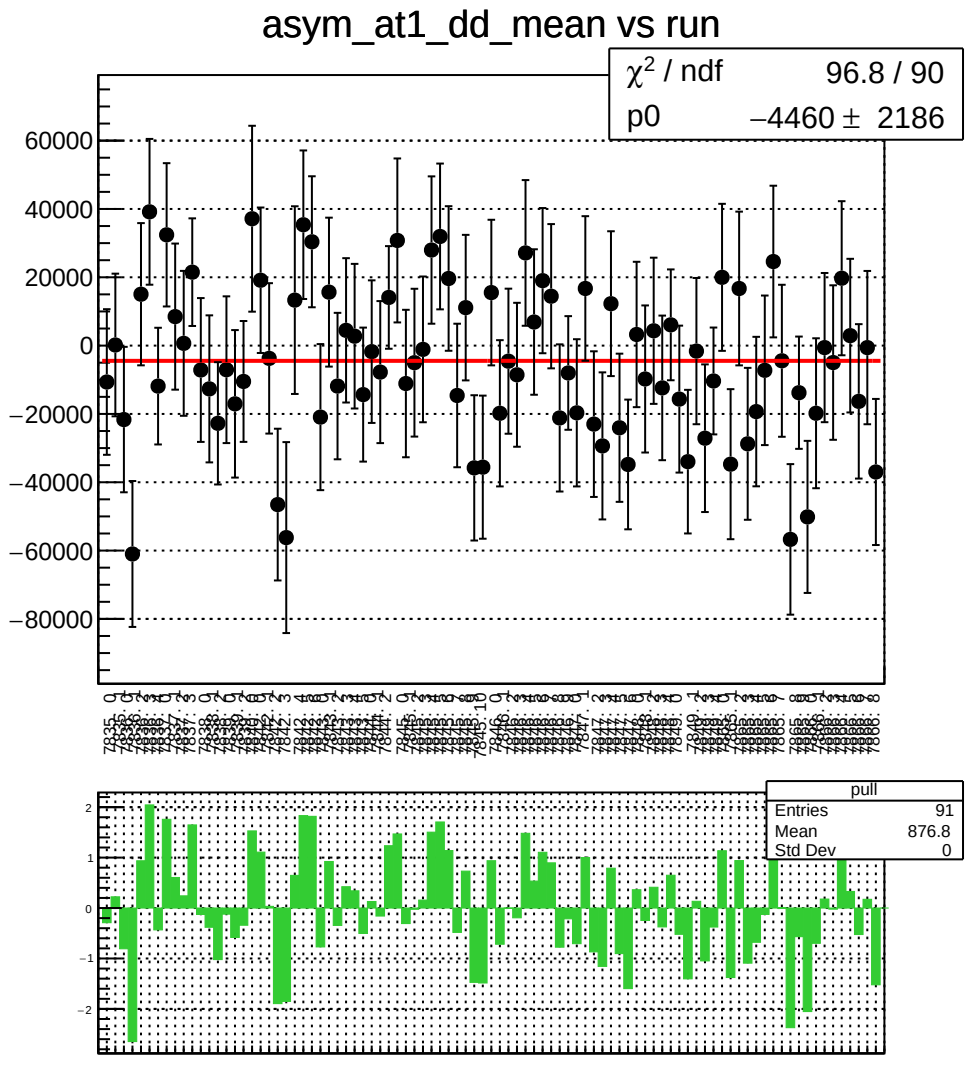

pull1D
Entries 91
Mean −0.004773
Std Dev 0.9931

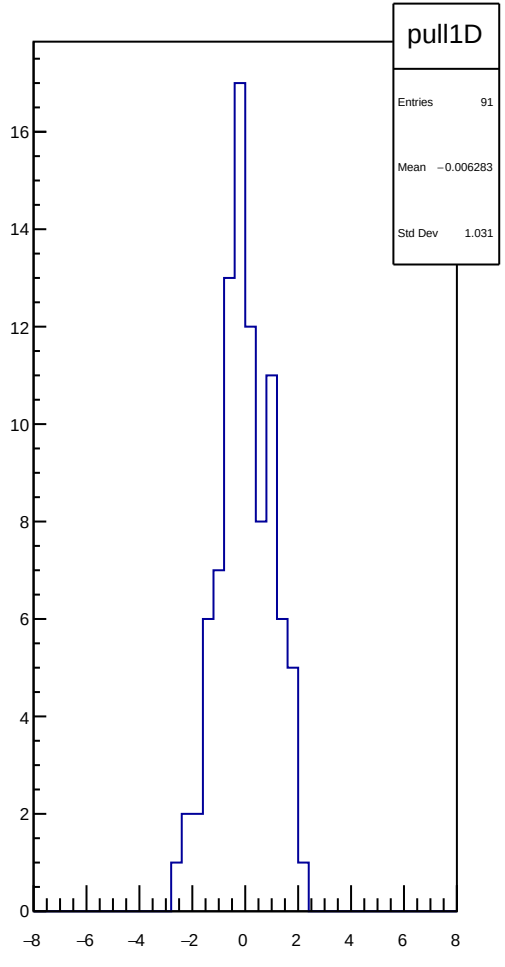

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 132.2 / 90
p0 1809 ± 1.365
1860
1840
1820
1800
1780
1760

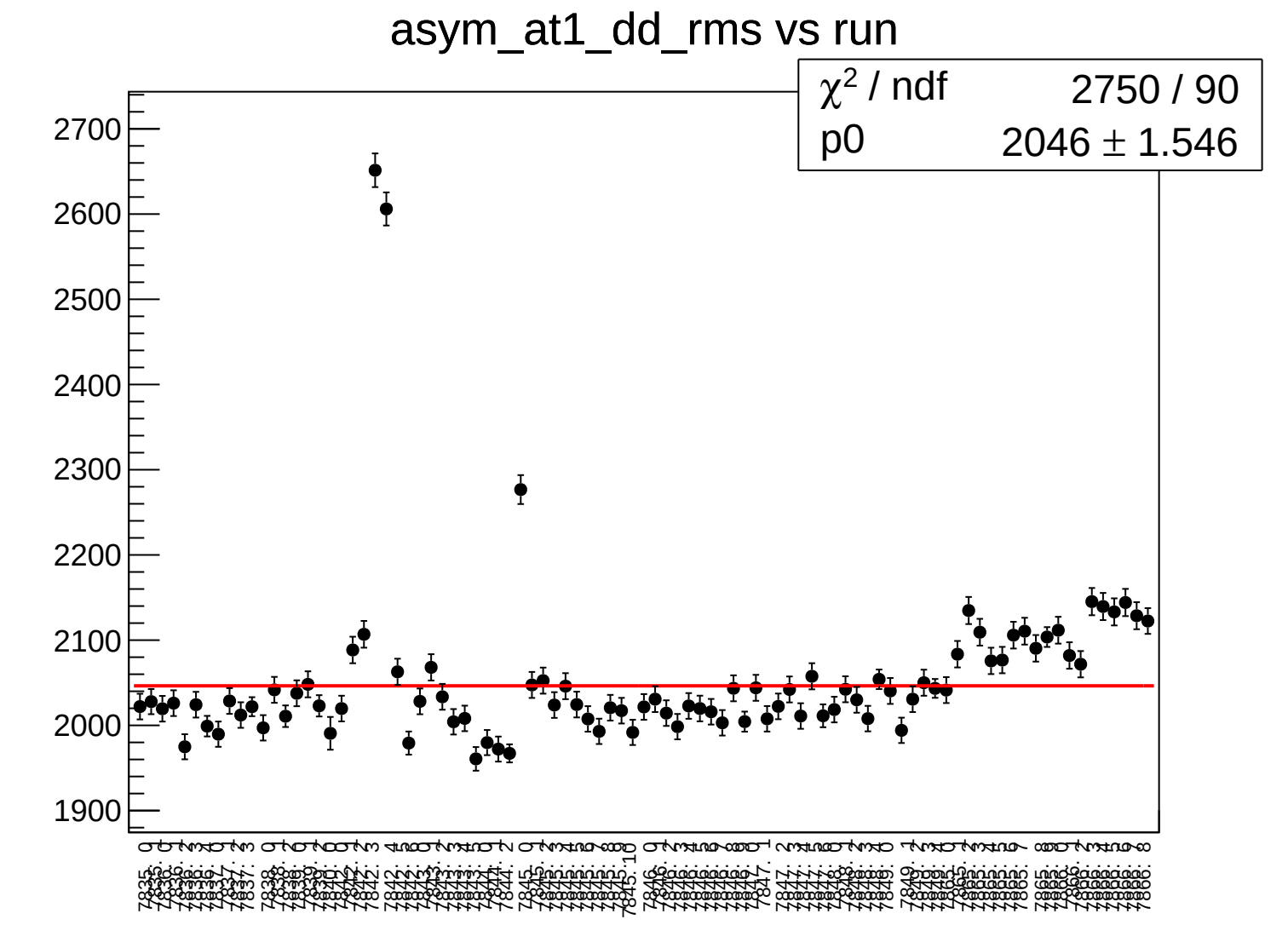

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.4 / 90
p0 2893 ± 1000
pull
Entries 91
Mean −1617
Std Dev 0

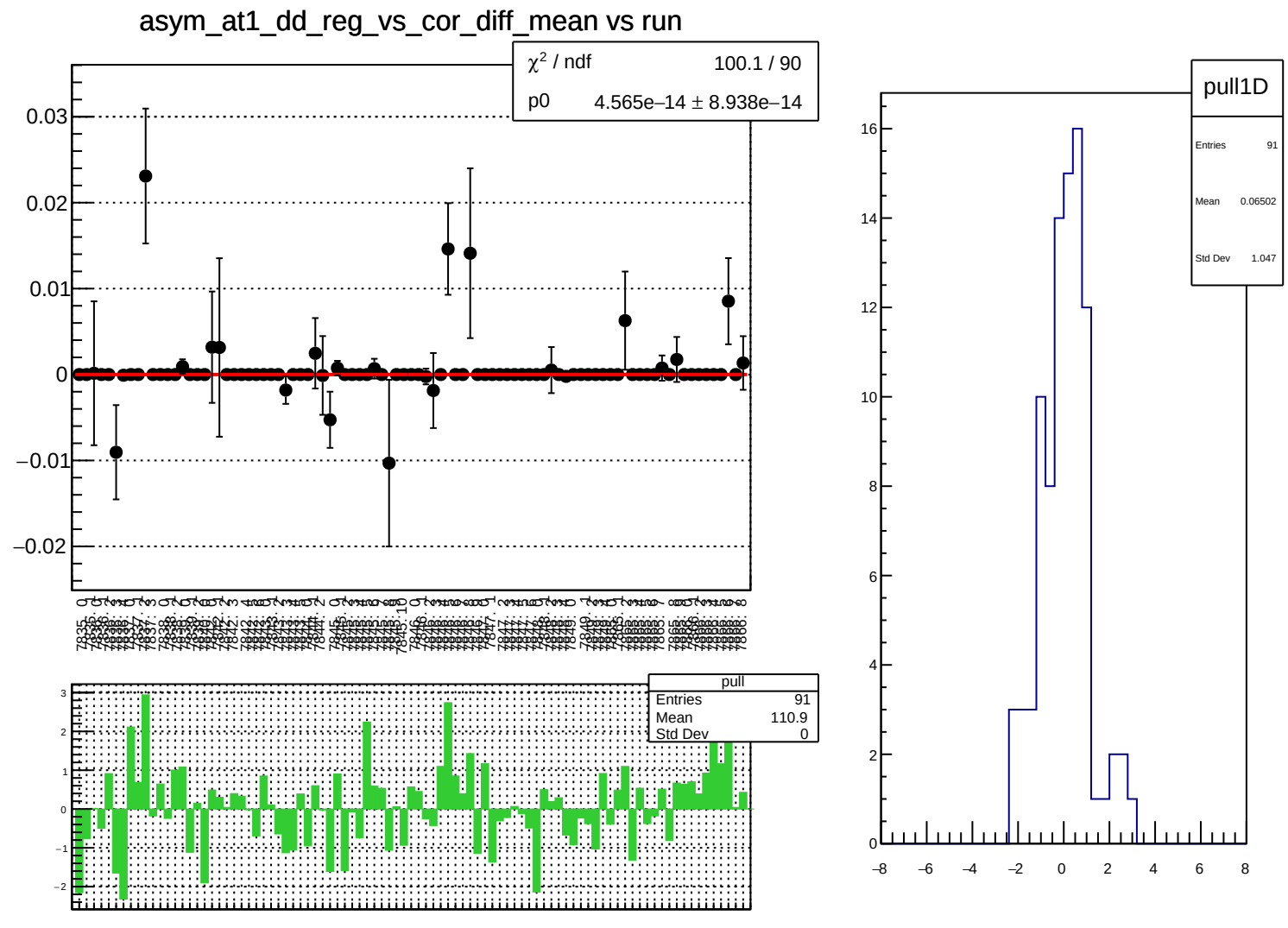

pull1D
Entries 91
Mean −0.002919
Std Dev 1.117

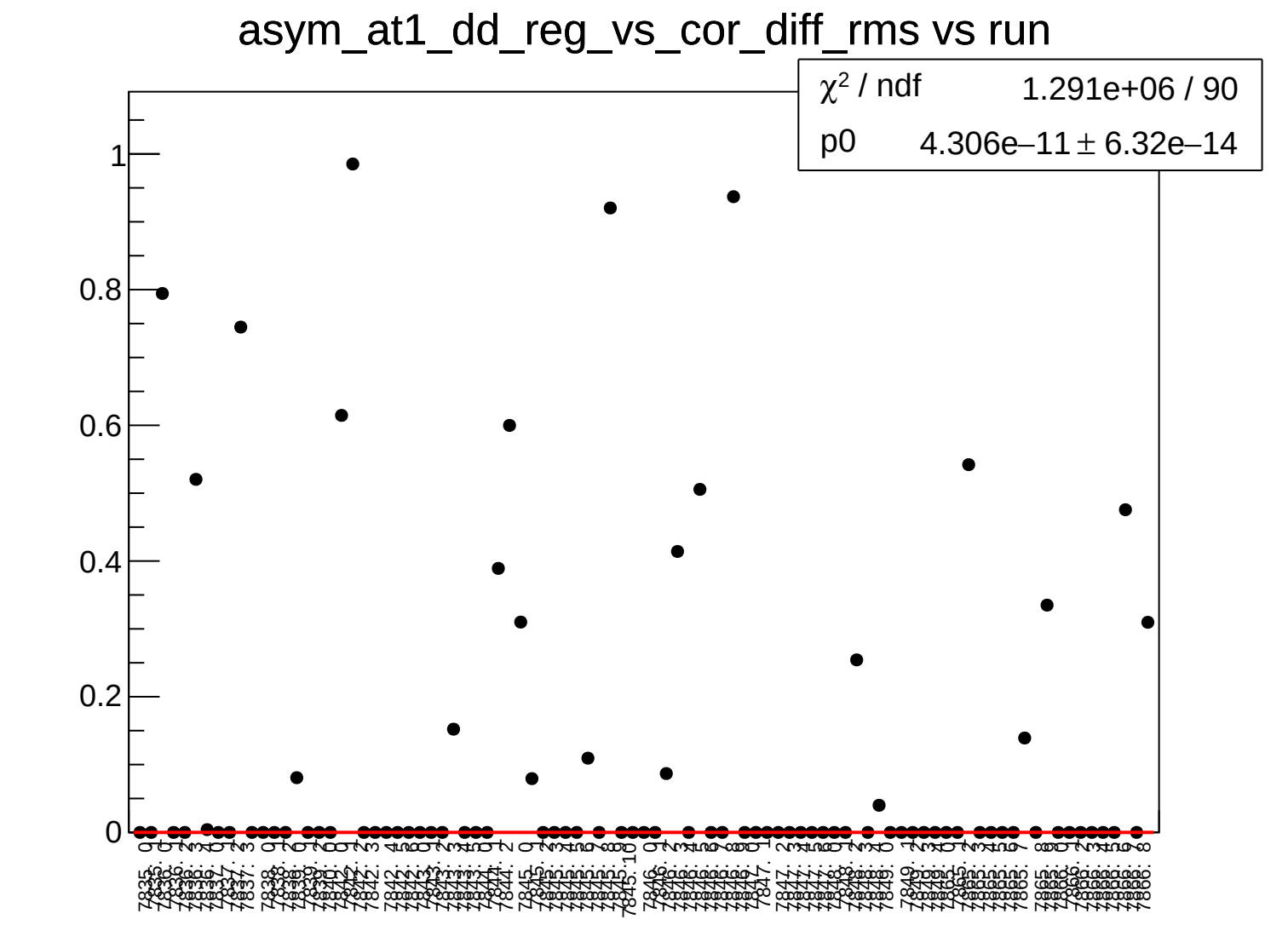

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.905e+04 / 90
p0 931.9 ± 0.7072
2000
1800
1600
1400
1200
1000
800

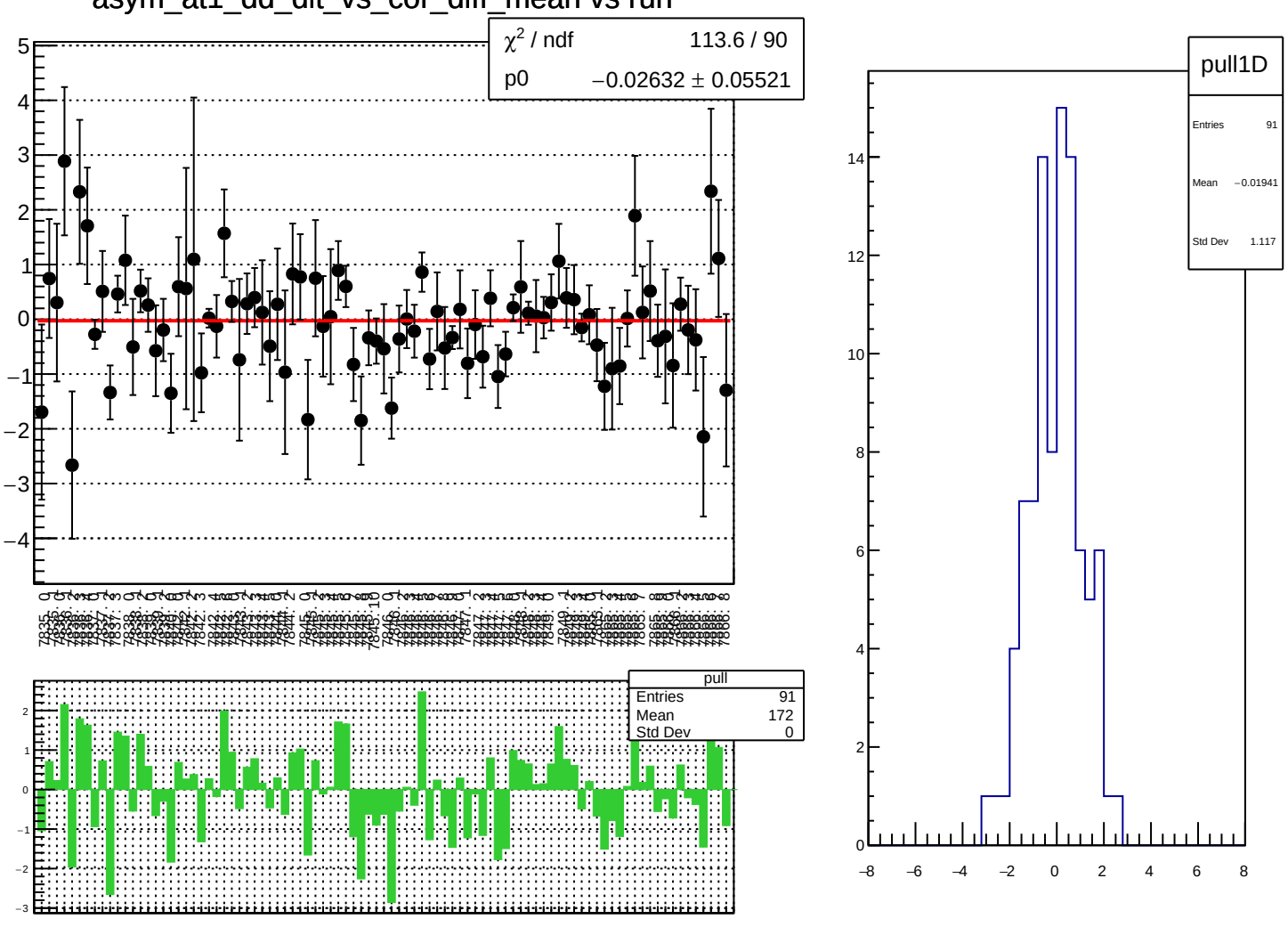

asym_at1_dd_mean vs run
χ² / ndf 96.8 / 90
p0 −4460 ± 2186
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 876.8
Std Dev 0
2
1
0
−1
−2

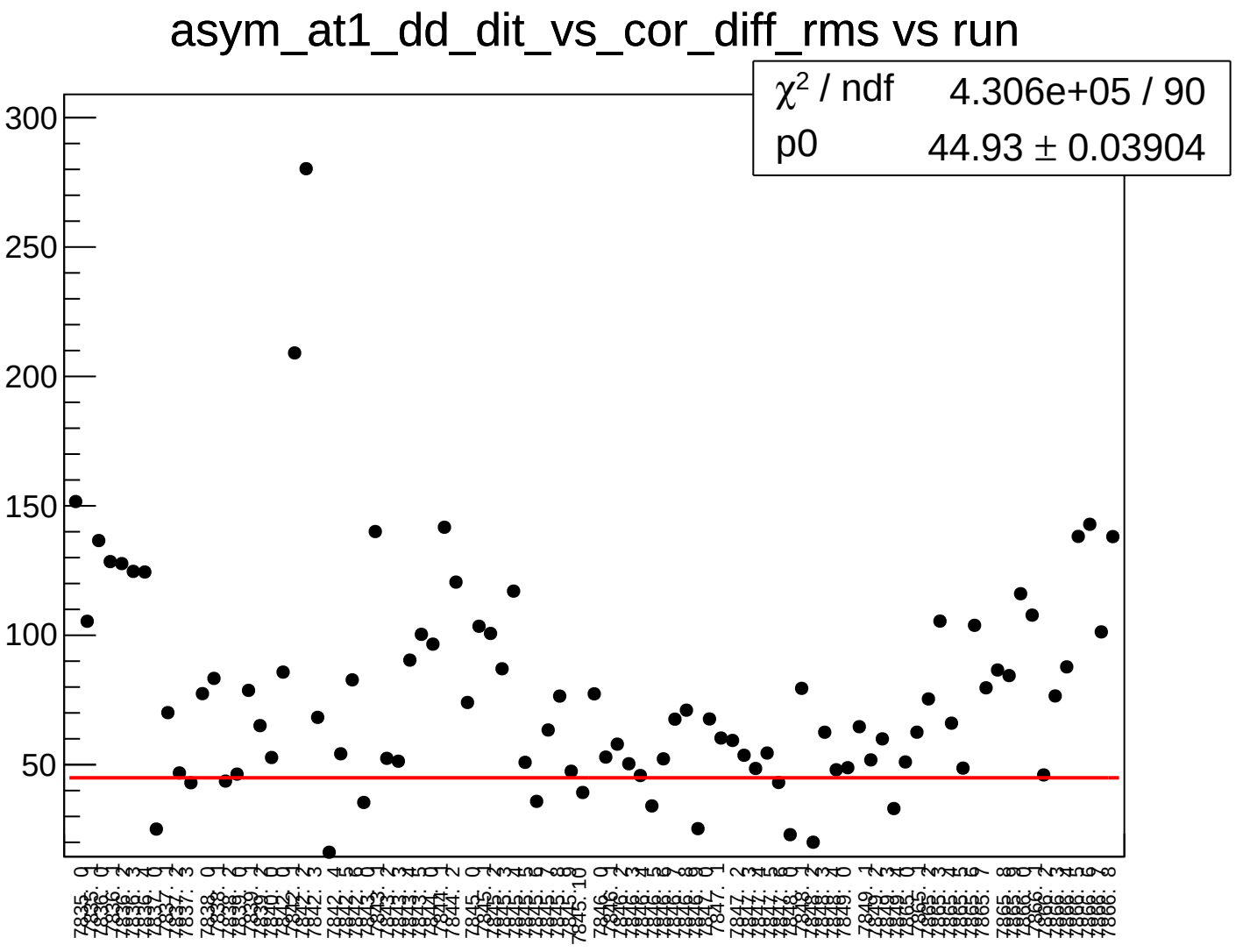

pull1D
Entries 91
Mean −0.006283
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

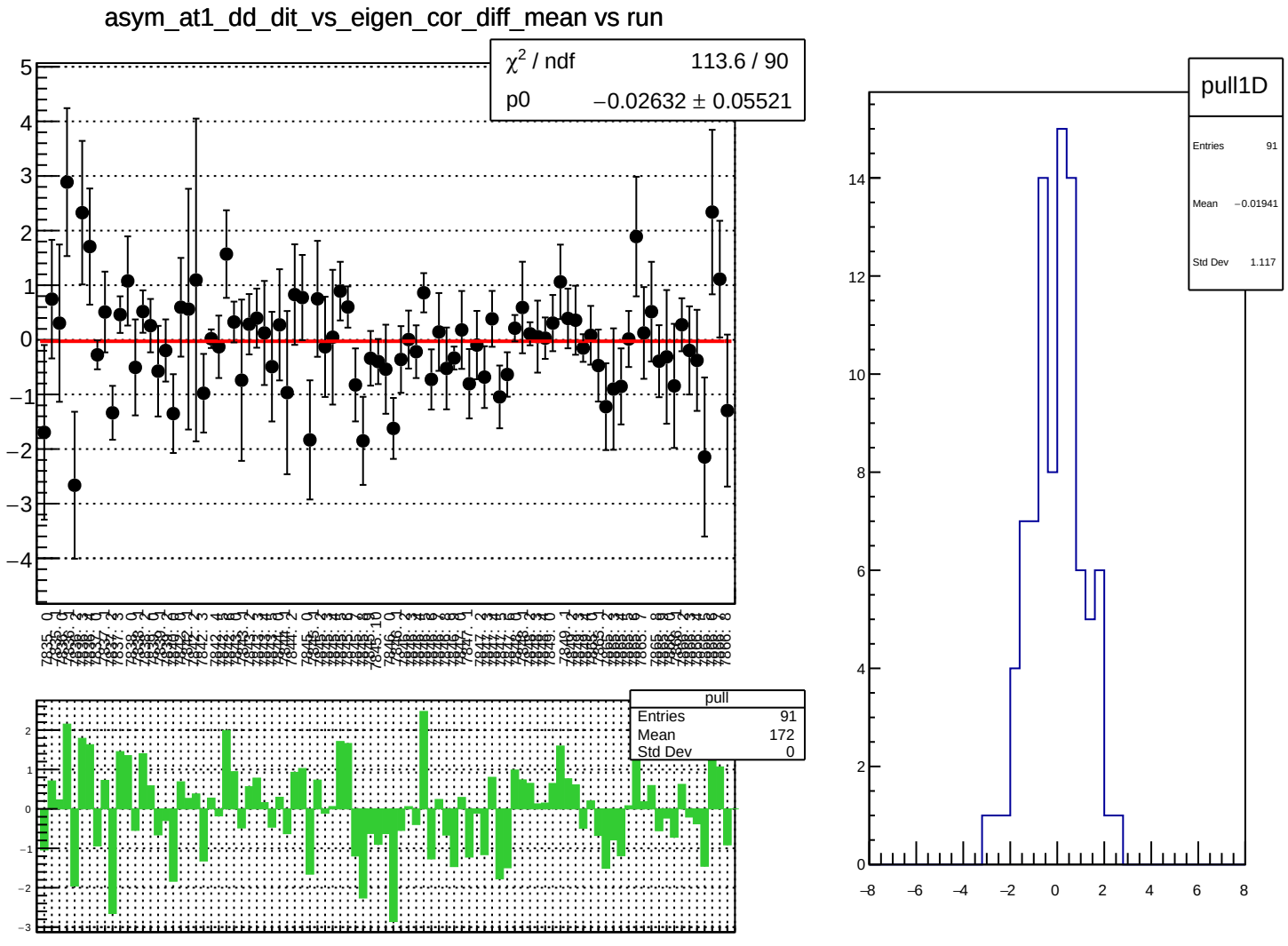

asym_at1_dd_rms vs run
χ^2 / ndf 2750 / 90
p0 2046 ± 1.546
2700
2600
2500
2400
2300
2200
2100
2000
1900

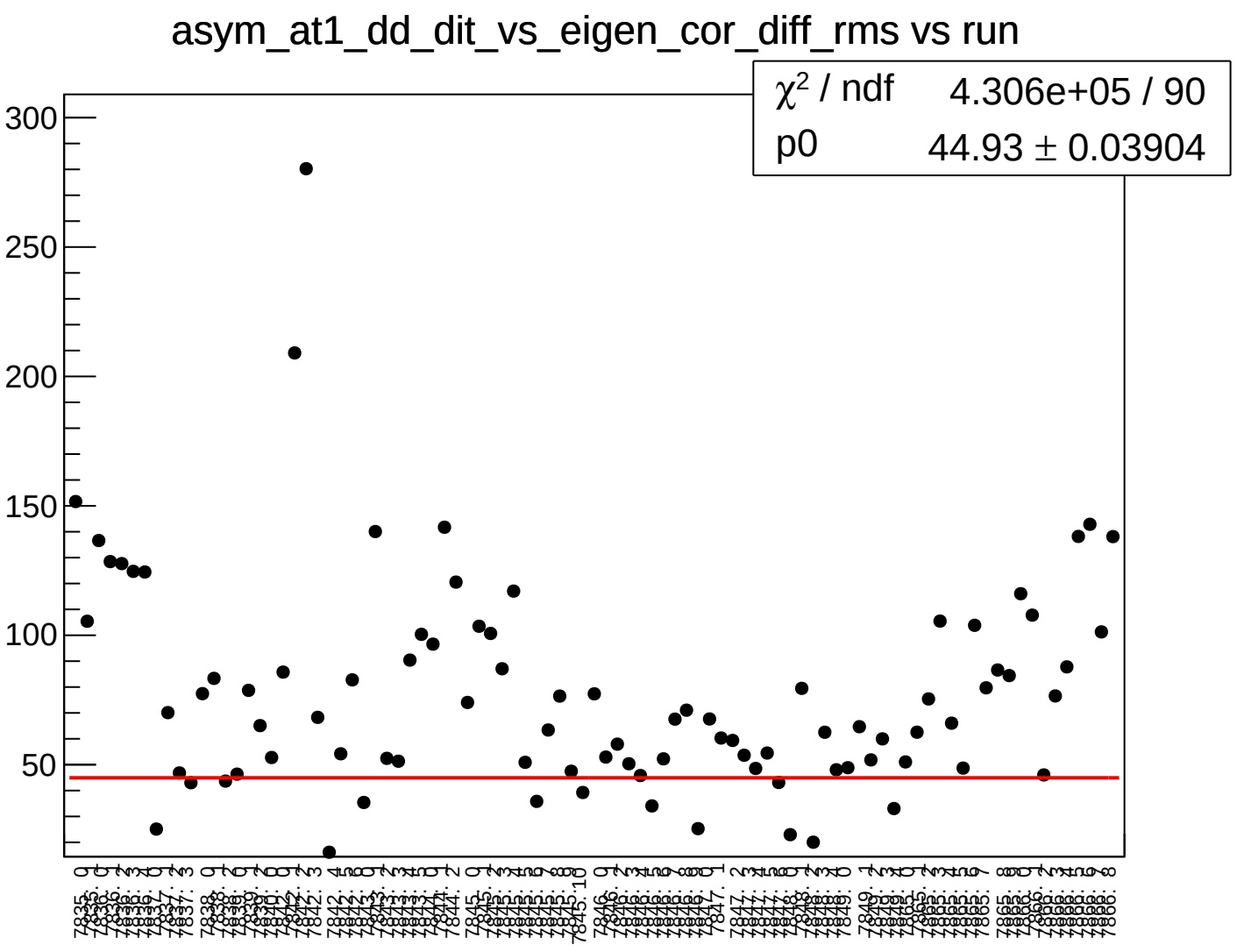

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 90
p0 4.565e−14 ± 8.938e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 110.9
Std Dev 0
pull1D
Entries 91
Mean 0.06502
Std Dev 1.047

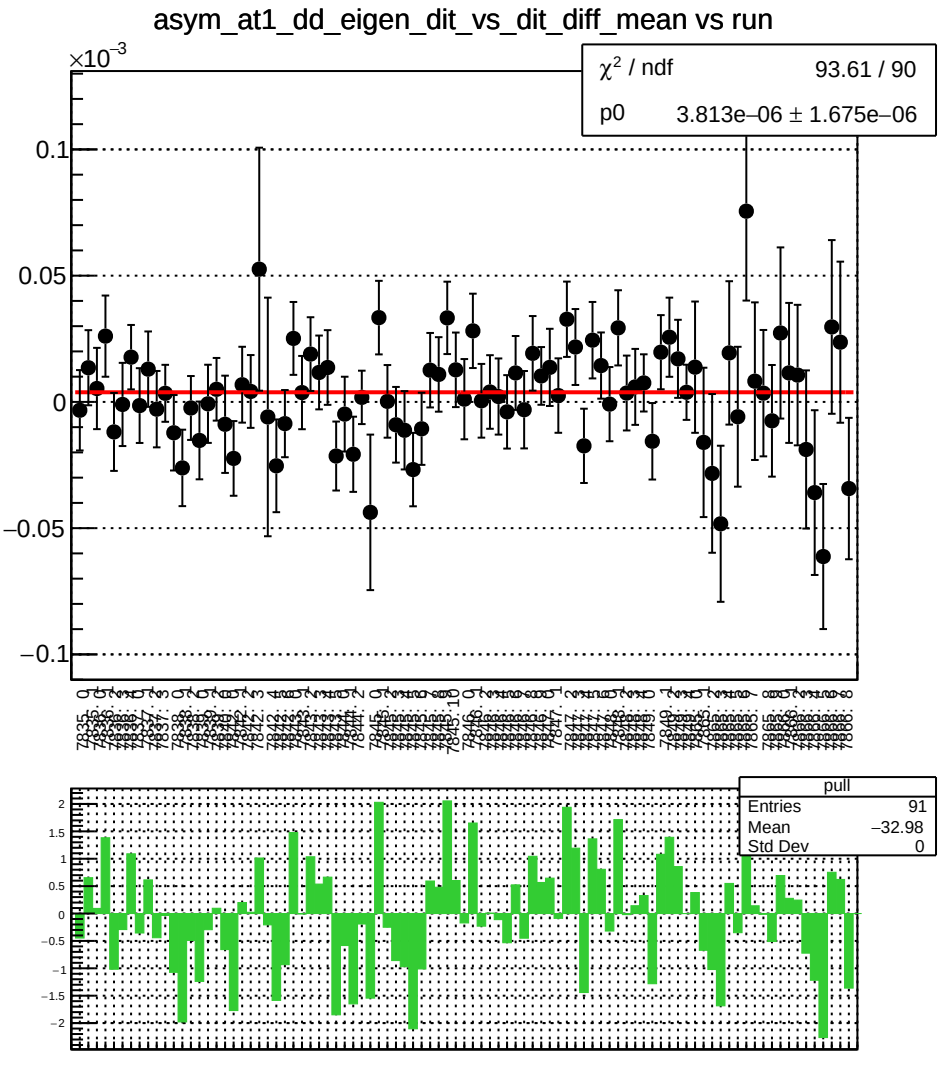

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.291e+06 / 90
p0 4.306e−11 ± 6.32e−14
1
0.8
0.6
0.4
0.2
0

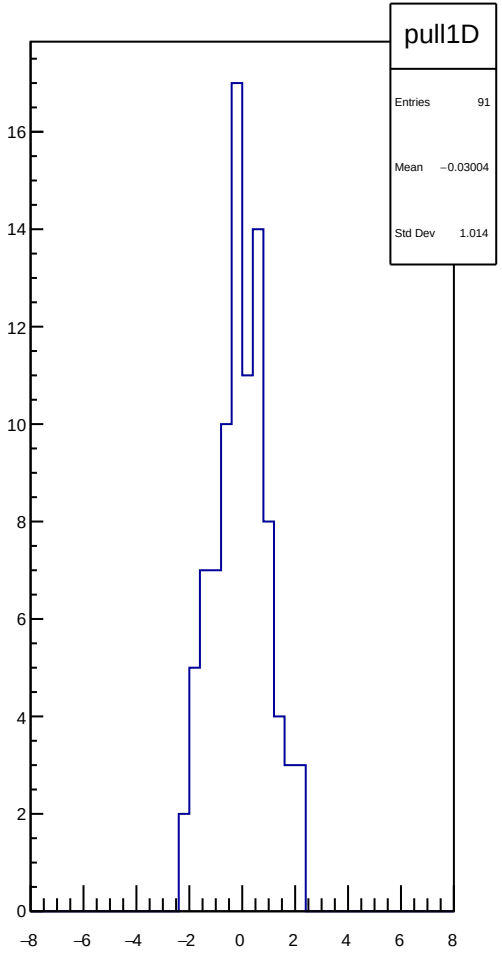

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 90
p0 −0.02632 ± 0.05521
pull
Entries 91
Mean 172
Std Dev 0
pull1D
Entries 91
Mean −0.01941
Std Dev 1.117

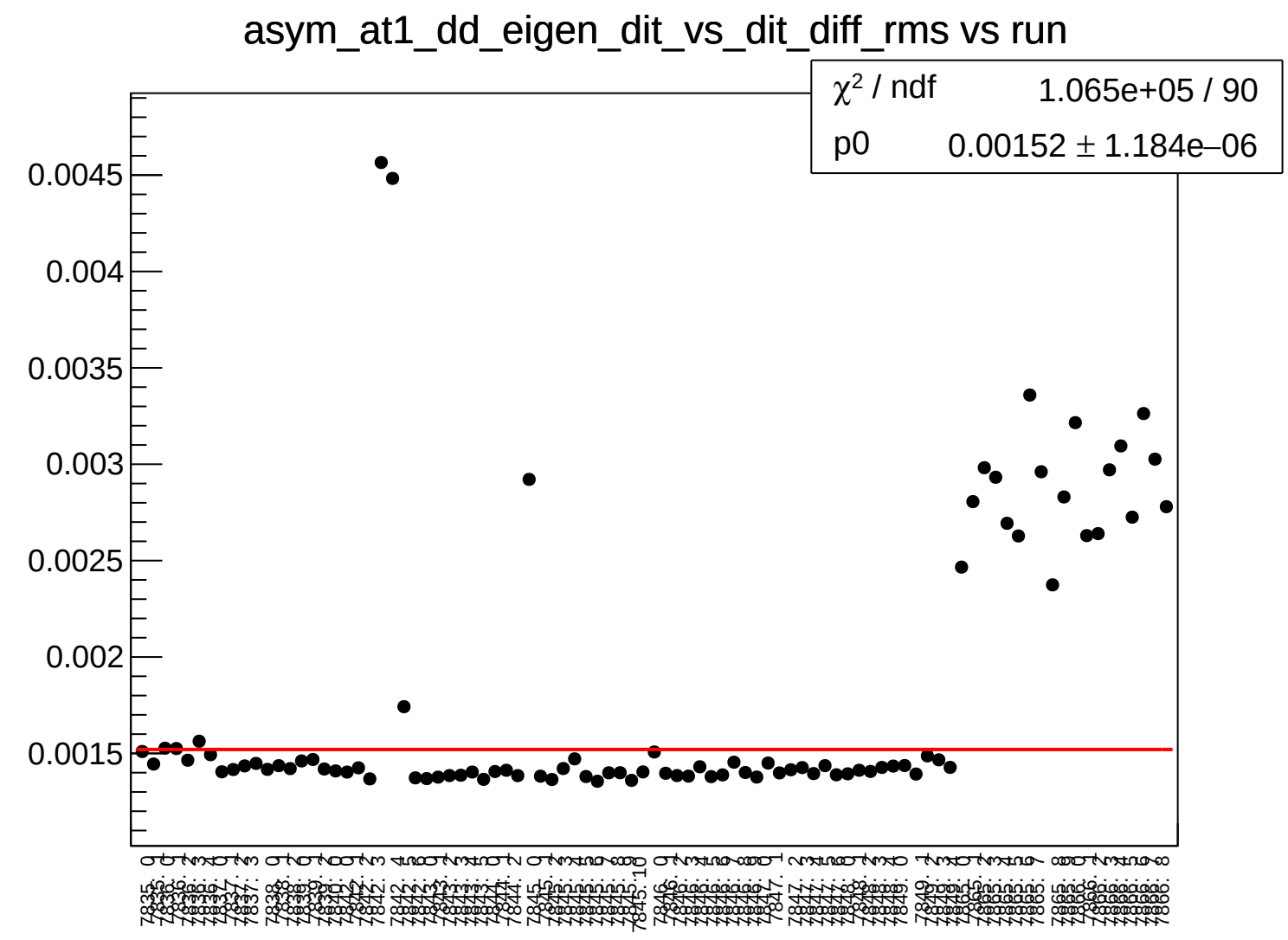

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.306e+05 / 90
p0 44.93 ± 0.03904
300
250
200
150
100
50

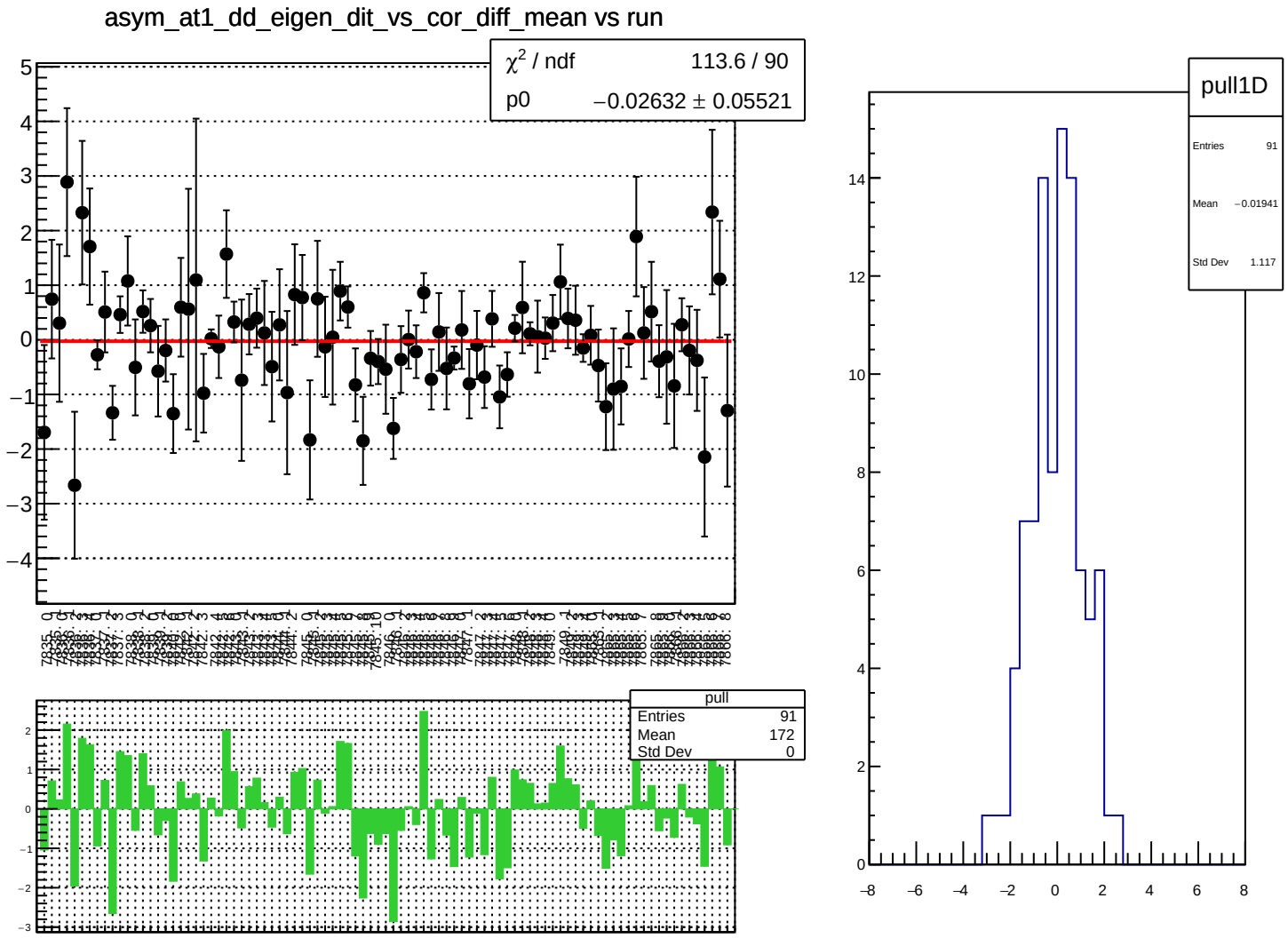

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.6 / 90
p0 −0.02632 ± 0.05521
pull
Entries 91
Mean 172
Std Dev 0
pull1D
Entries 91
Mean −0.01941
Std Dev 1.117

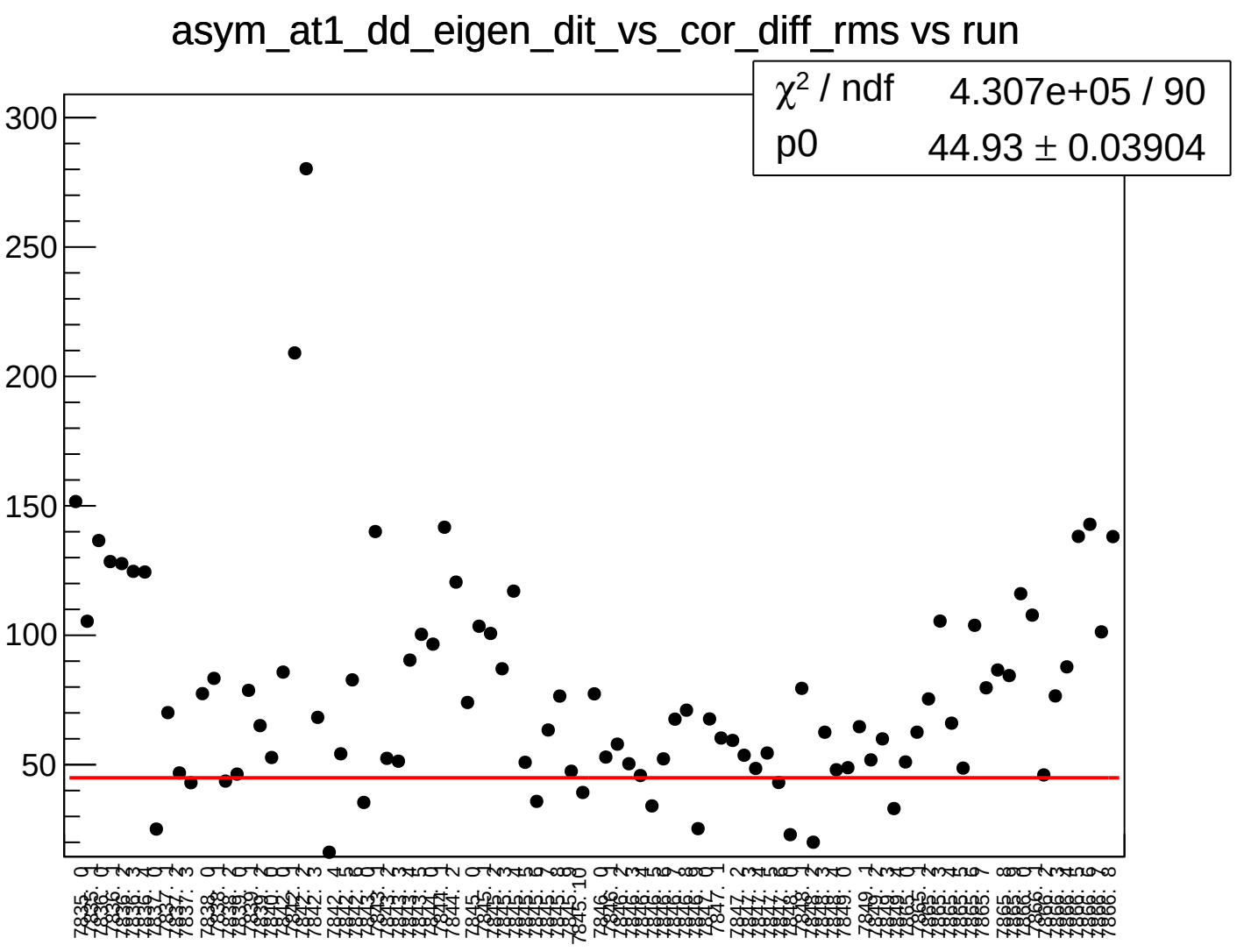

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.306e+05 / 90
p0 44.93 ± 0.03904
300
250
200
150
100
50

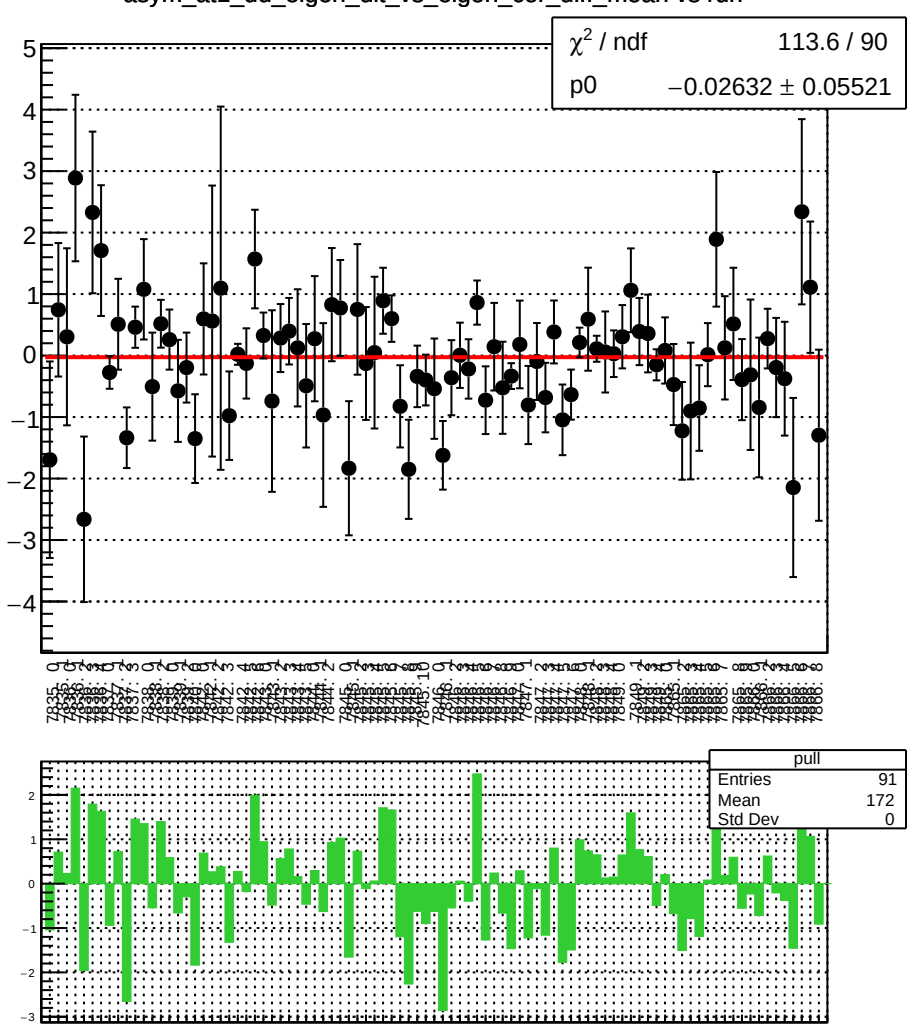

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.61 / 90
p0 3.813e−06 ± 1.675e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −32.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

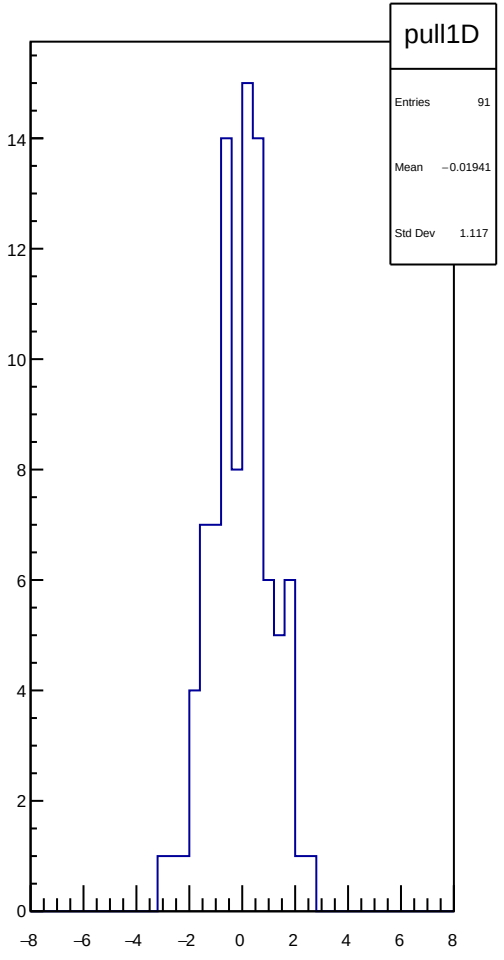

pull1D
Entries 91
Mean −0.03004
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

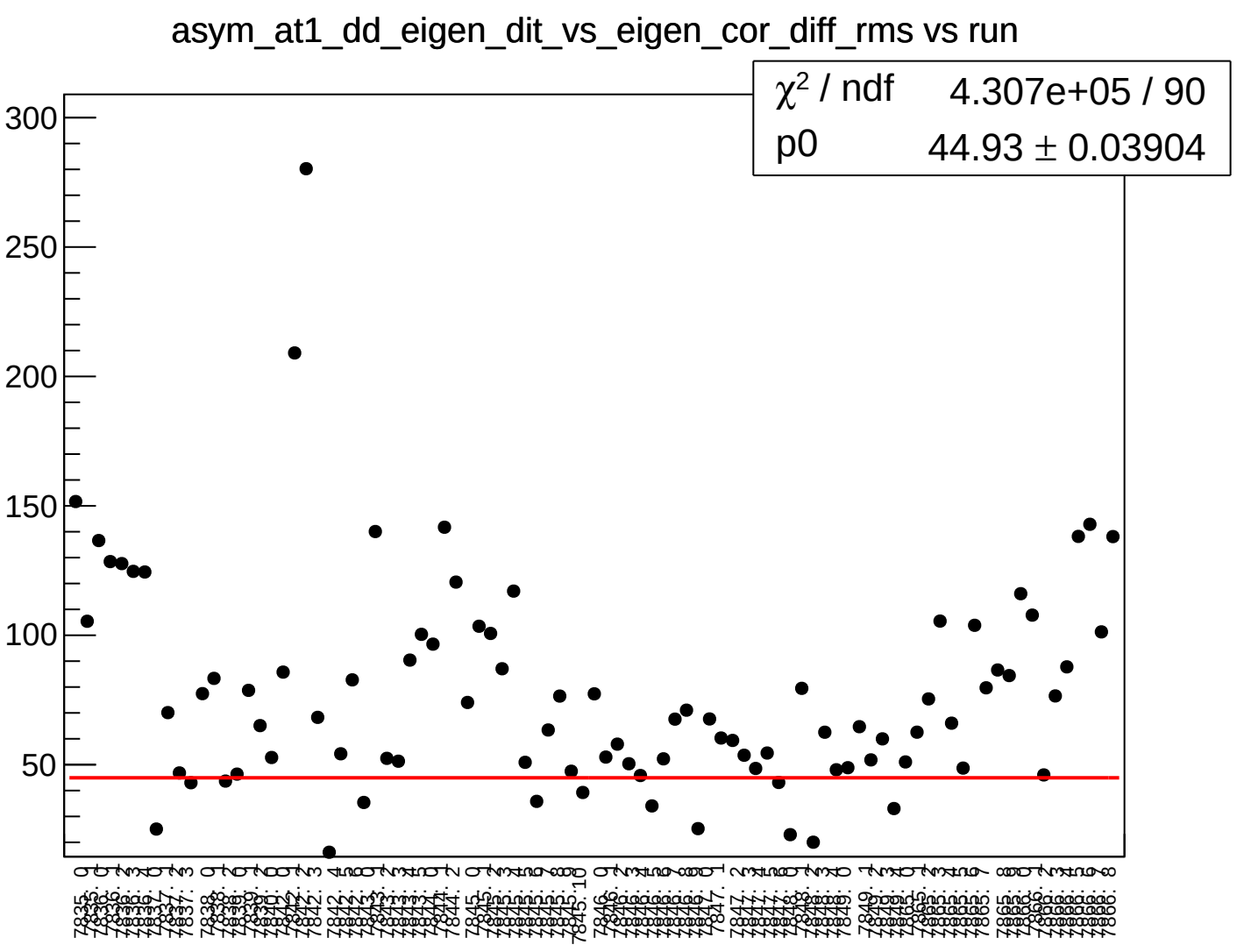

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.065e+05 / 90
p0 0.00152 ± 1.184e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

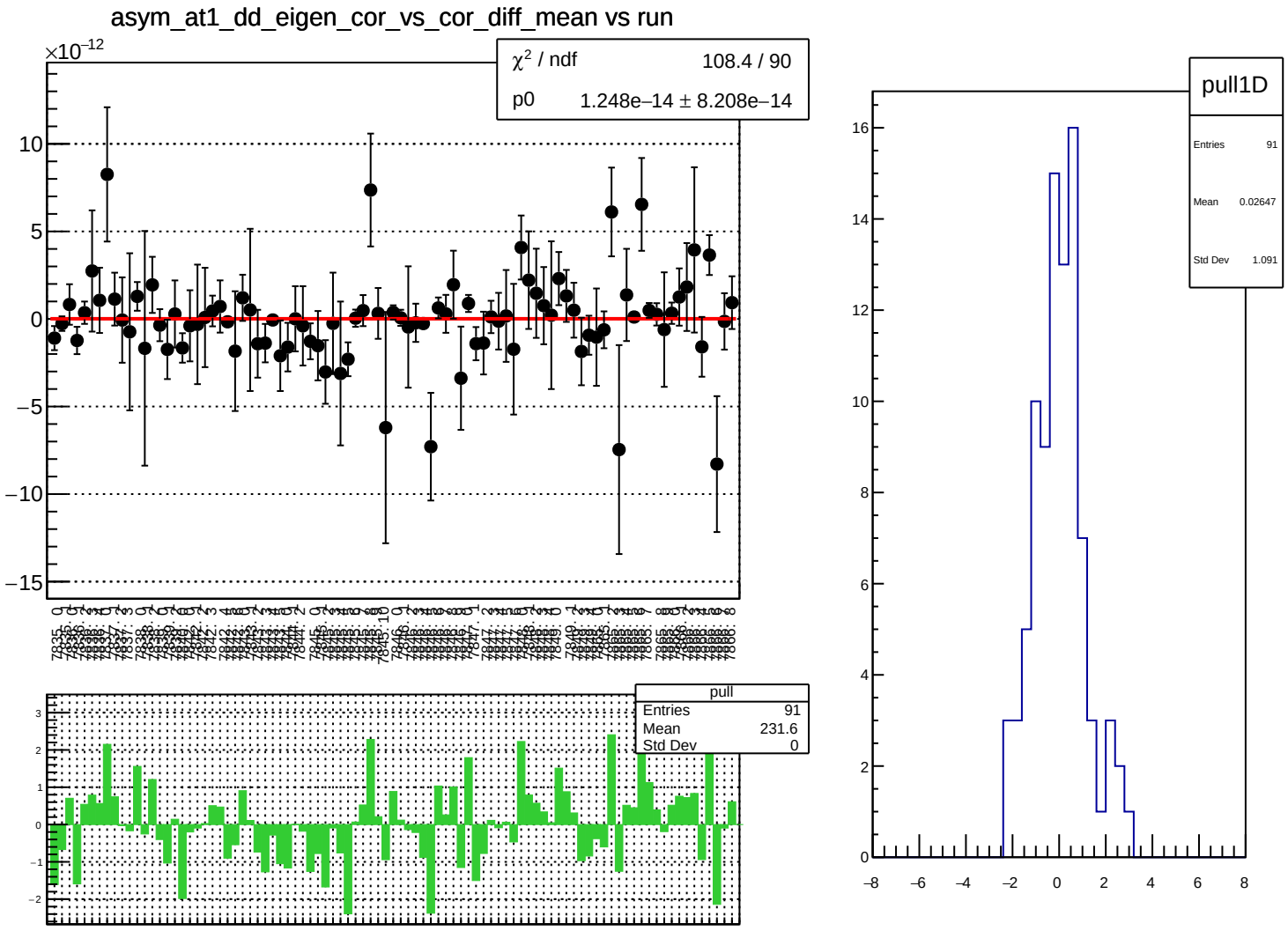

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 90
p0 −0.02632 ± 0.05521
pull
Entries 91
Mean 172
Std Dev 0
pull1D
Entries 91
Mean −0.01941
Std Dev 1.117

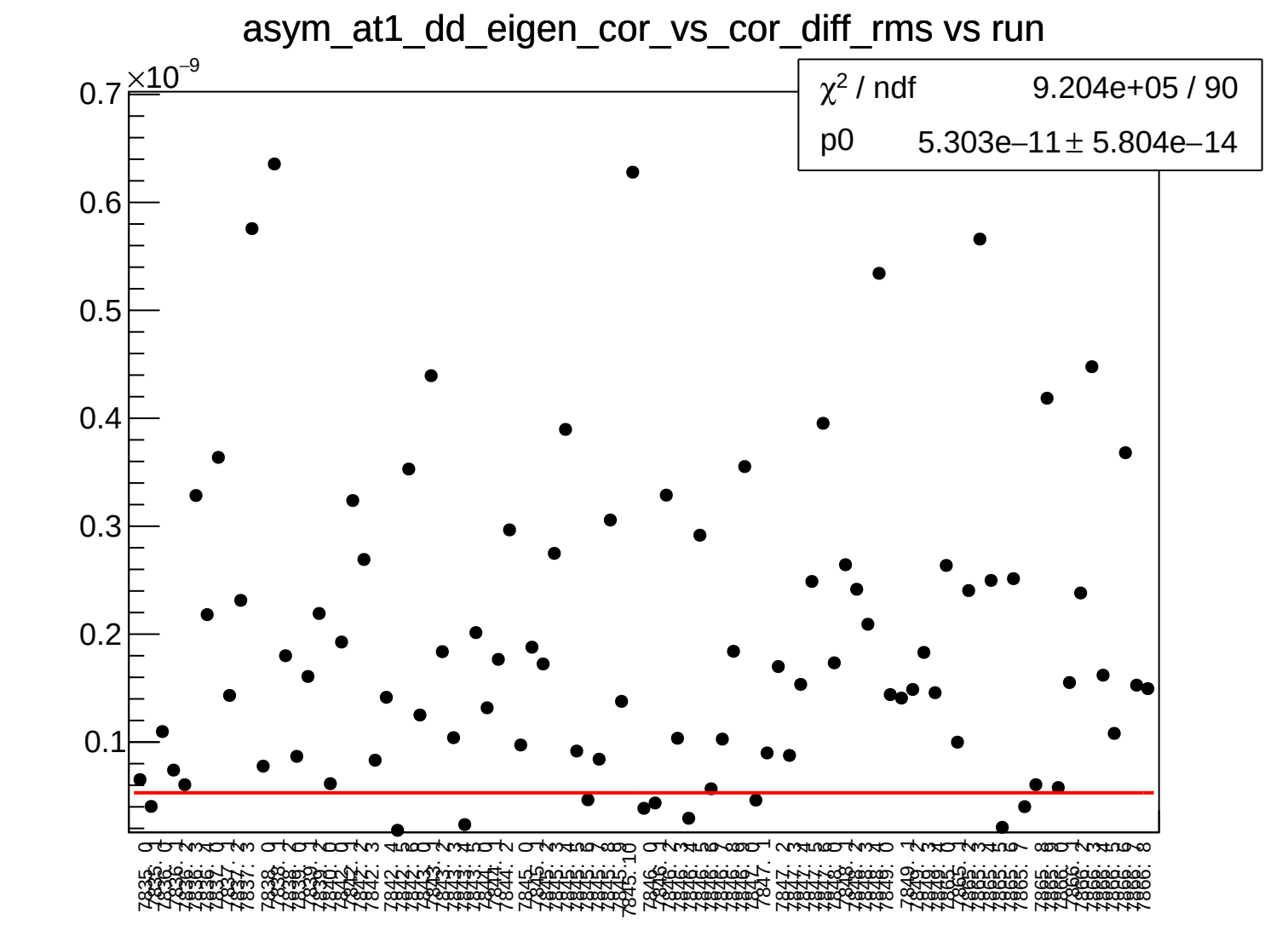

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.307e+05 / 90
p0 44.93 ± 0.03904
300
250
200
150
100
50

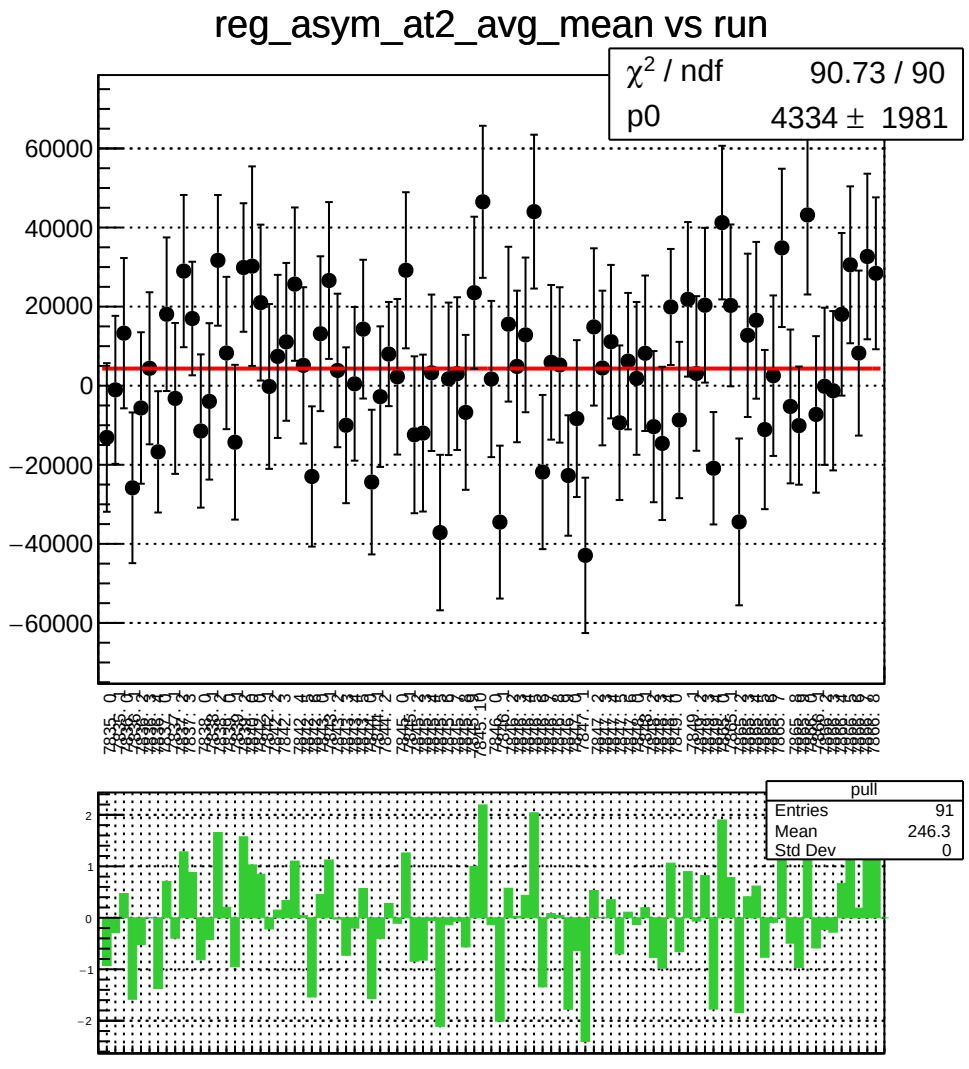

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.6 / 90
p0 −0.02632 ± 0.05521
pull
Entries 91
Mean 172
Std Dev 0

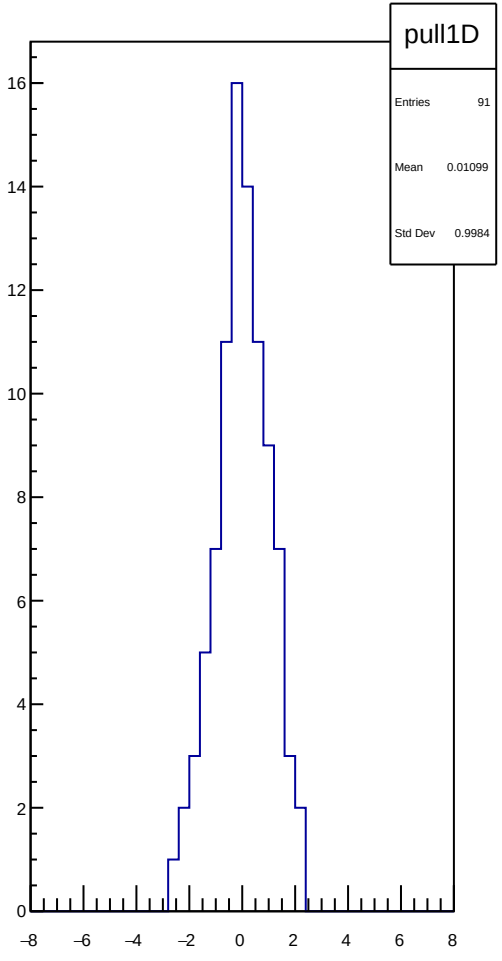

pull1D
Entries 91
Mean −0.01941
Std Dev 1.117

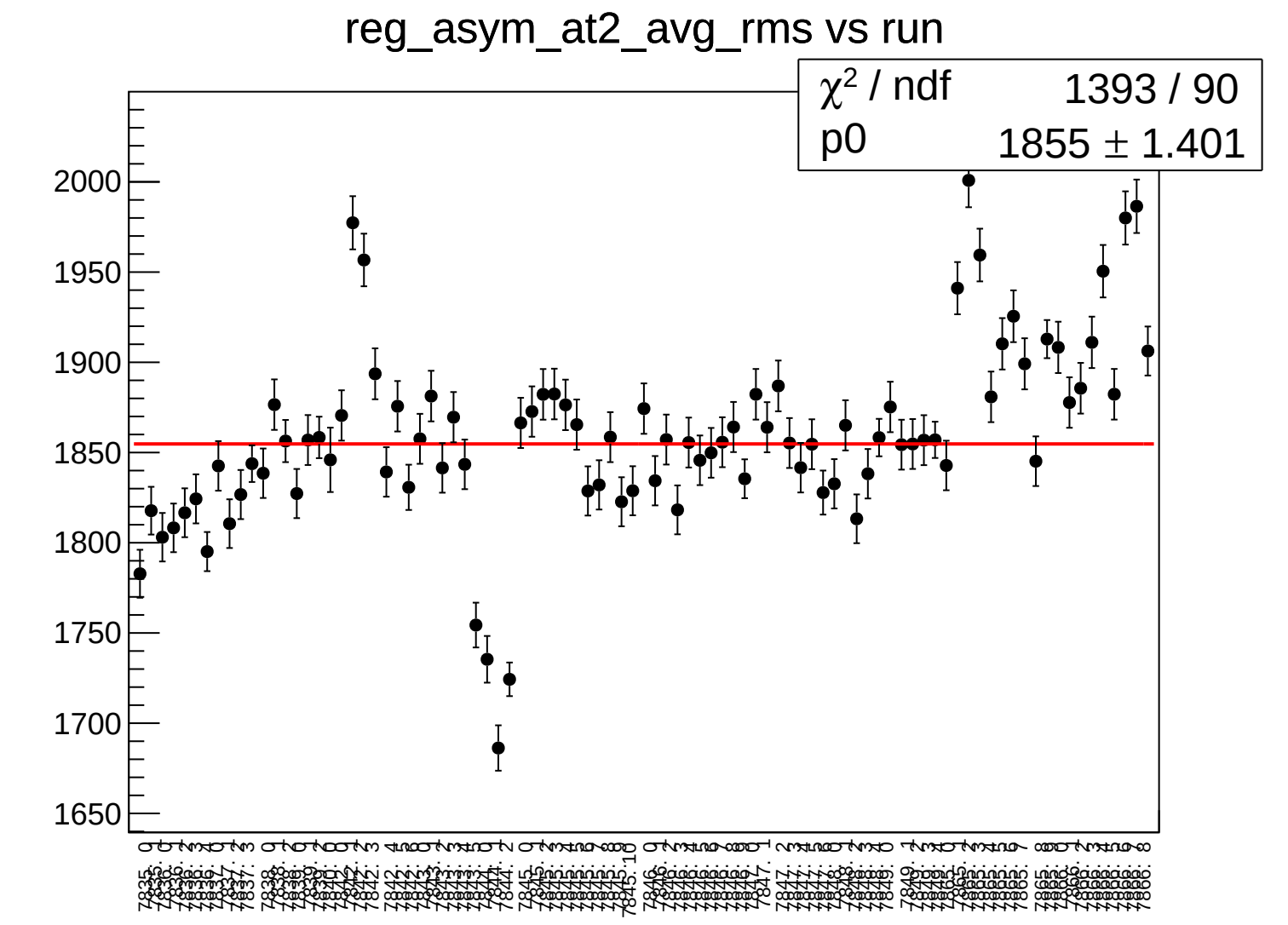

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.307e+05 / 90
p0 44.93 ± 0.03904
300
250
200
150
100
50

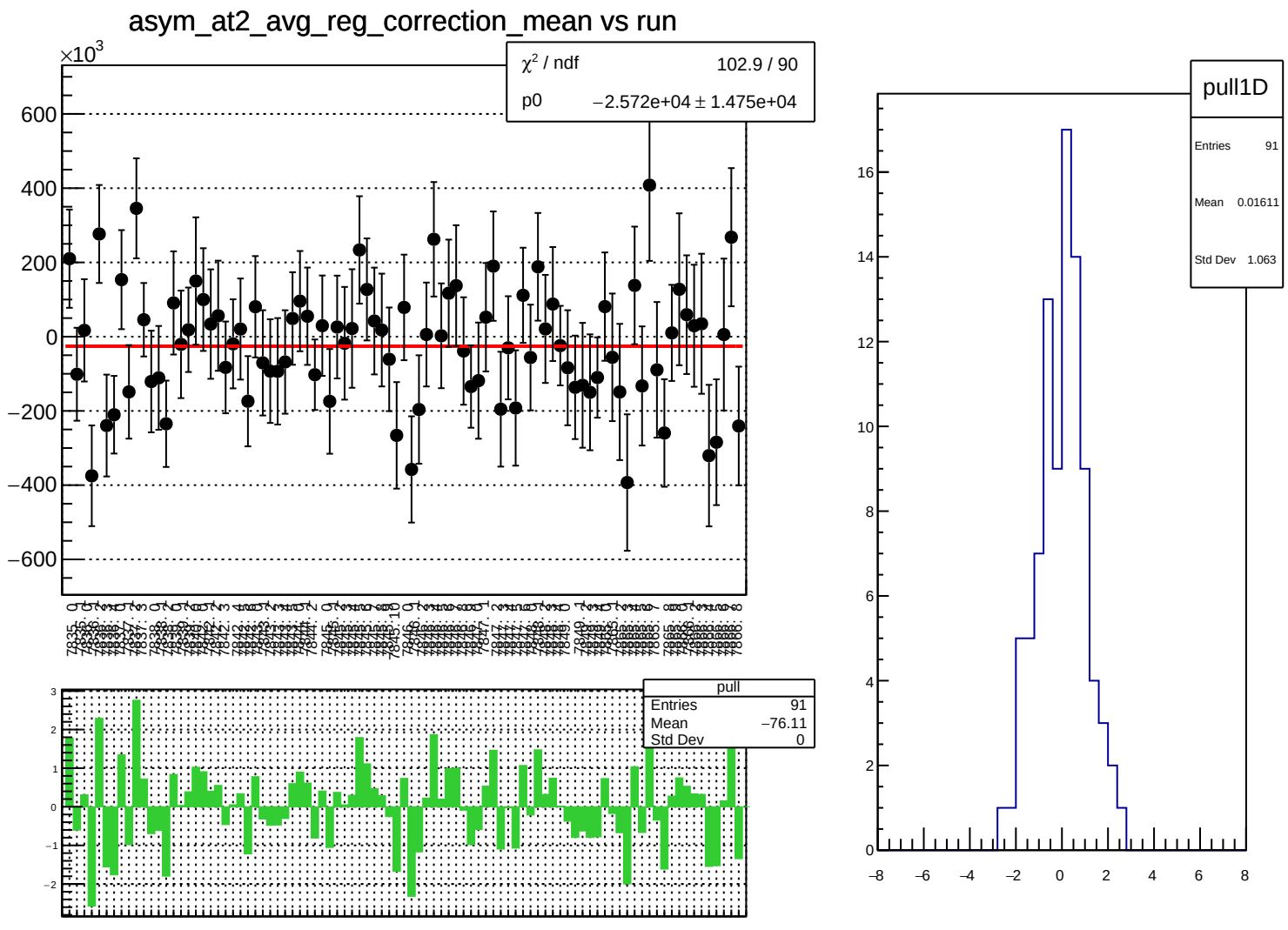

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 108.4 / 90
p0 1.248e−14 ± 8.208e−14
pull
Entries 91
Mean 231.6
Std Dev 0
pull1D
Entries 91
Mean 0.02647
Std Dev 1.091

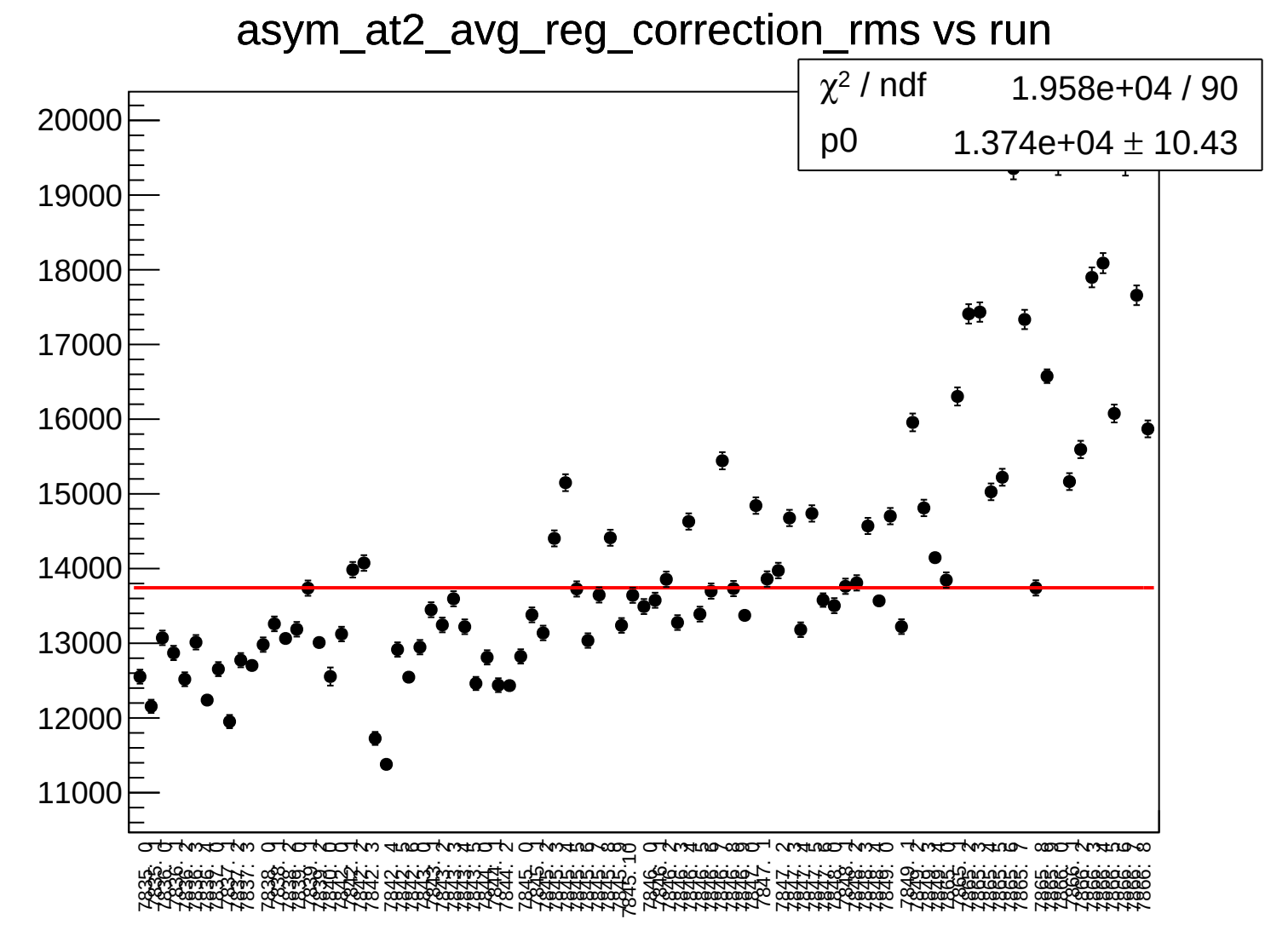

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.204e+05 / 90
p0 5.303e−11 ± 5.804e−14

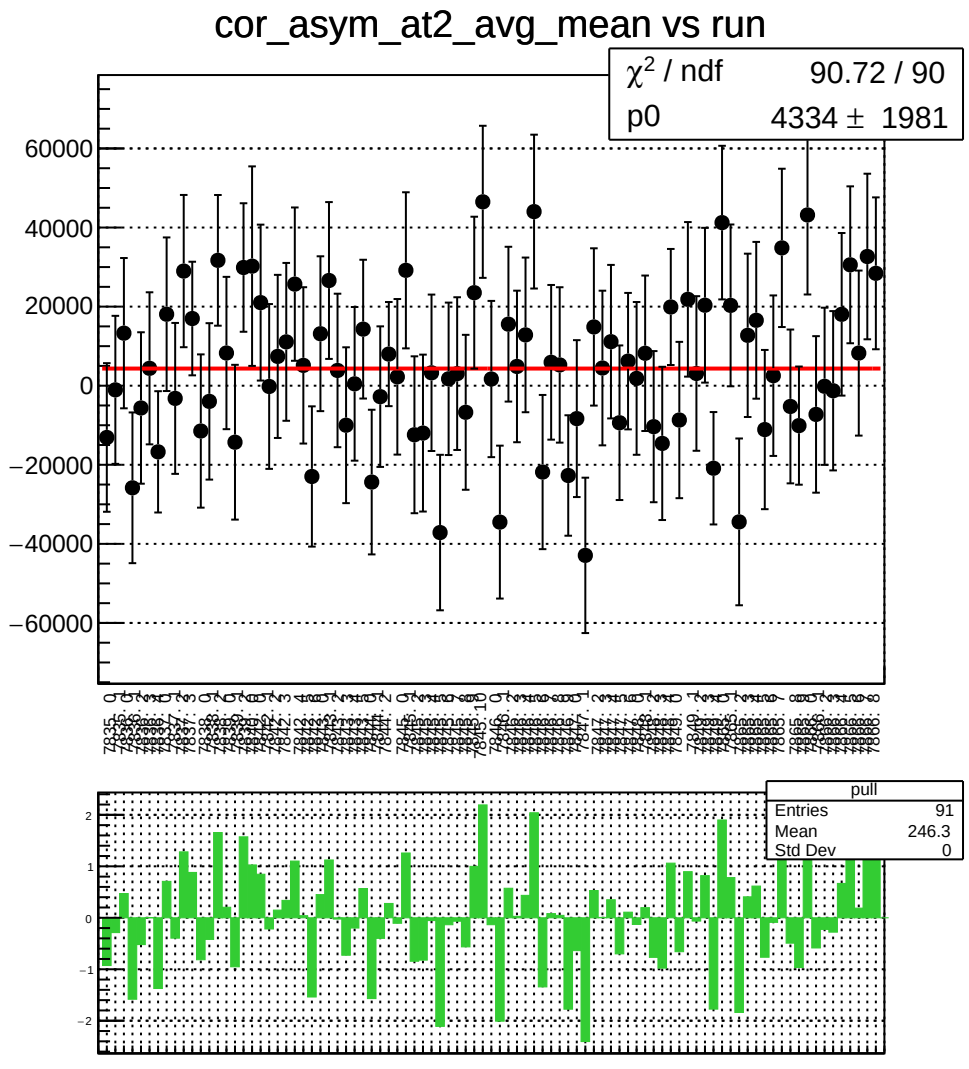

reg_asym_at2_avg_mean vs run
χ^2 / ndf 90.73 / 90
p0 4334 ± 1981
pull
Entries 91
Mean 246.3
Std Dev 0

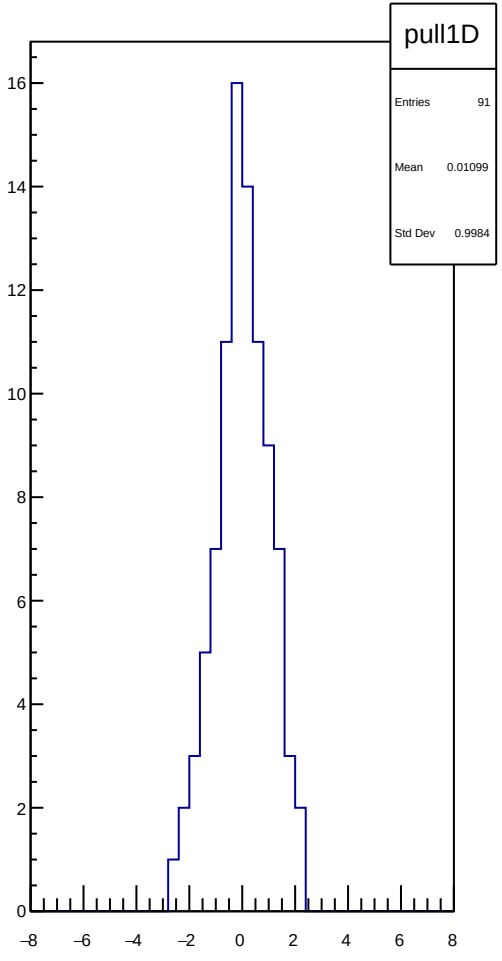

pull1D
Entries 91
Mean 0.01099
Std Dev 0.9984

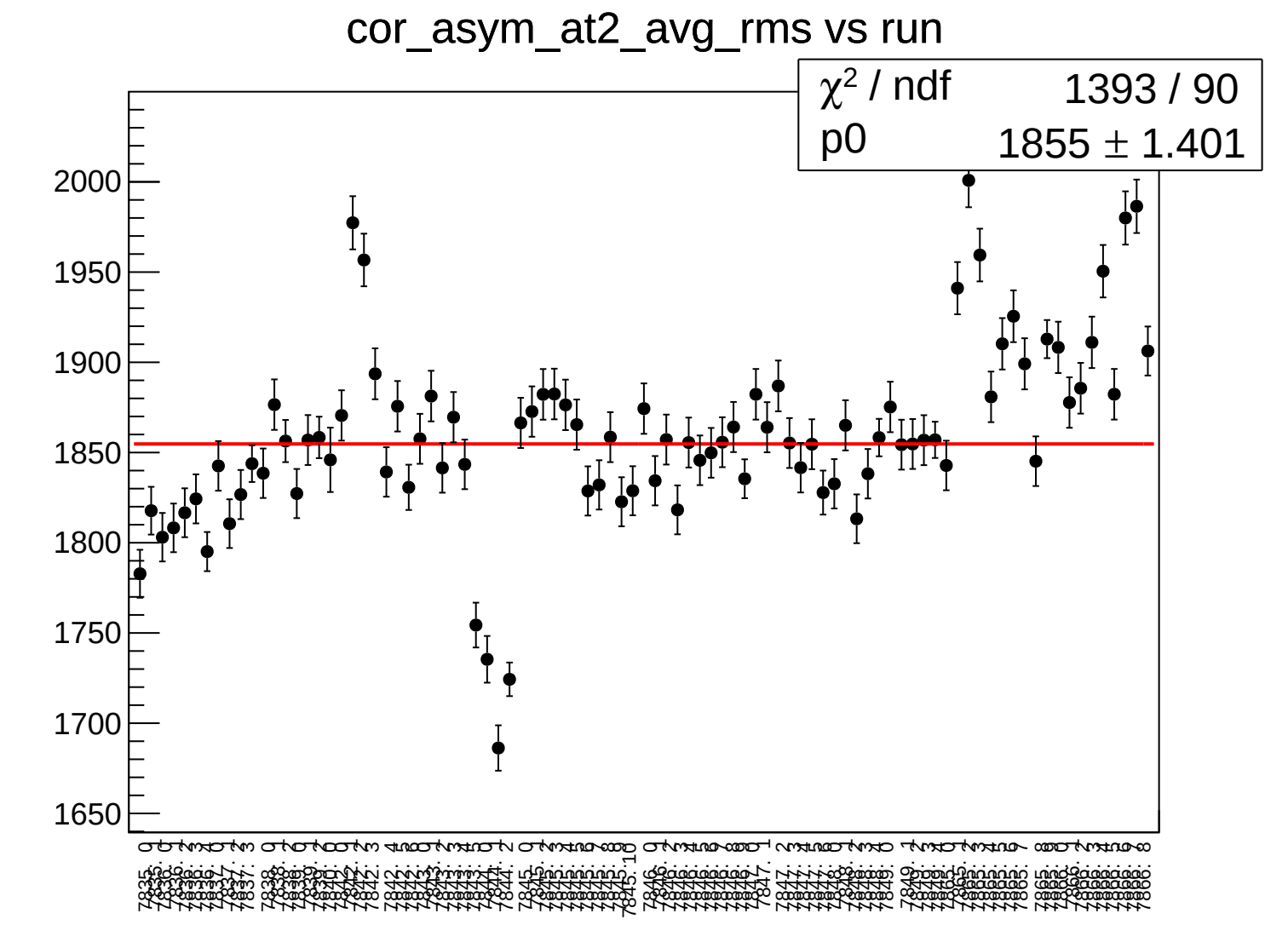

reg_asym_at2_avg_rms vs run
χ² / ndf 1393 / 90
p0 1855 ± 1.401
2000
1950
1900
1850
1800
1750
1700
1650

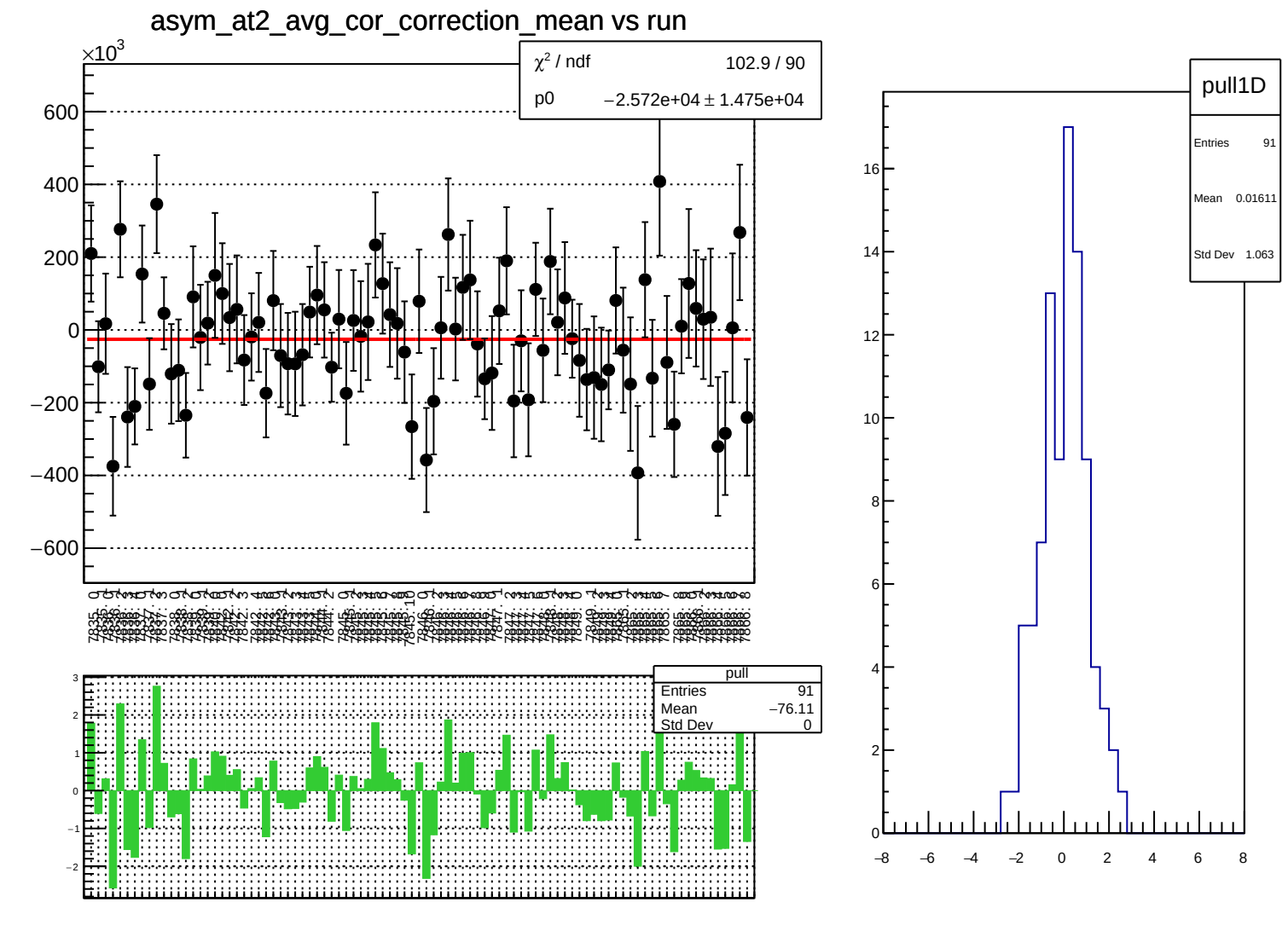

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 102.9 / 90
p0 −2.572e+04 ± 1.475e+04
pull
Entries 91
Mean −76.11
Std Dev 0
pull1D
Entries 91
Mean 0.01611
Std Dev 1.063

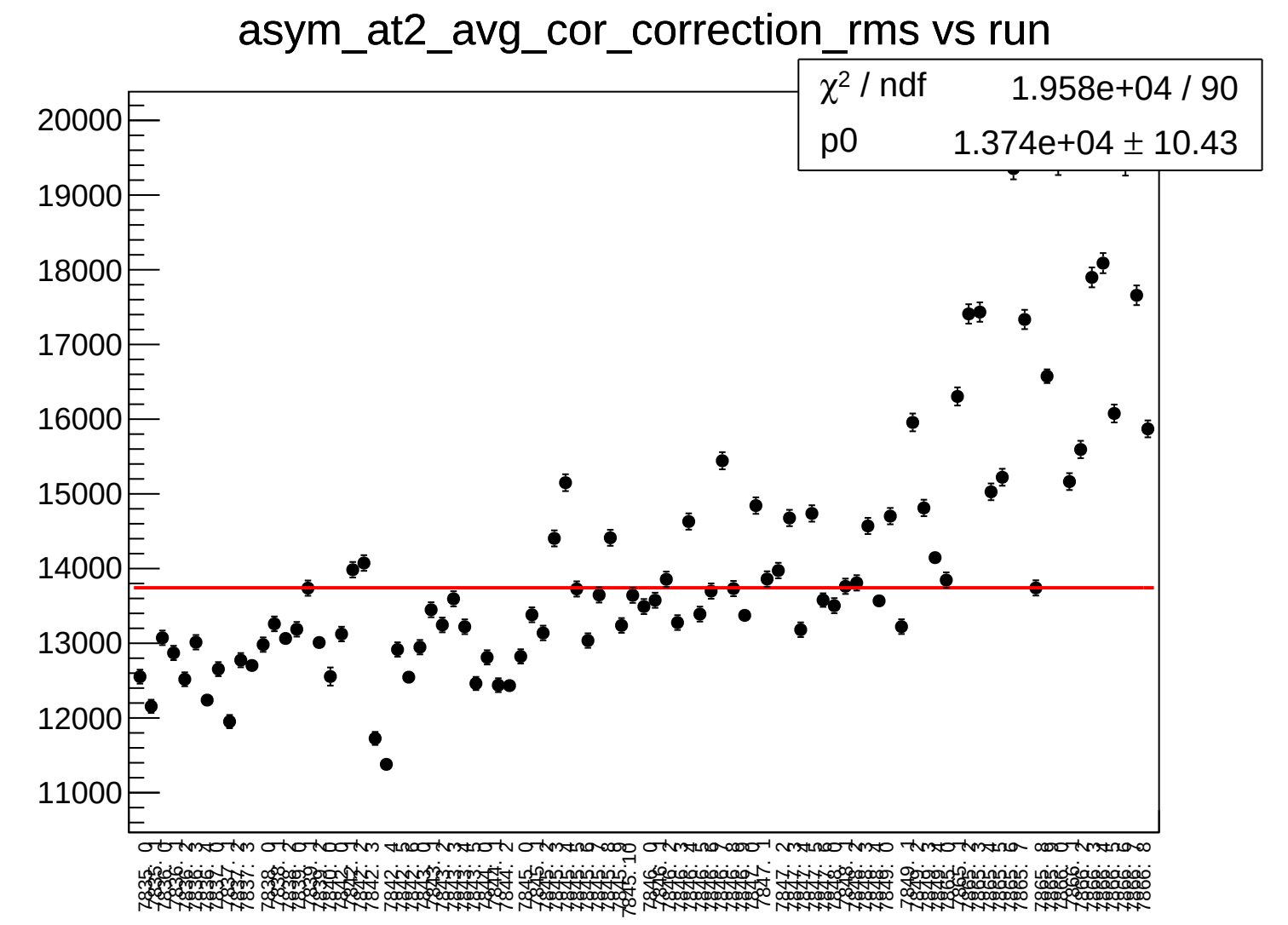

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.958e+04 / 90
p0 1.374e+04 ± 10.43
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000

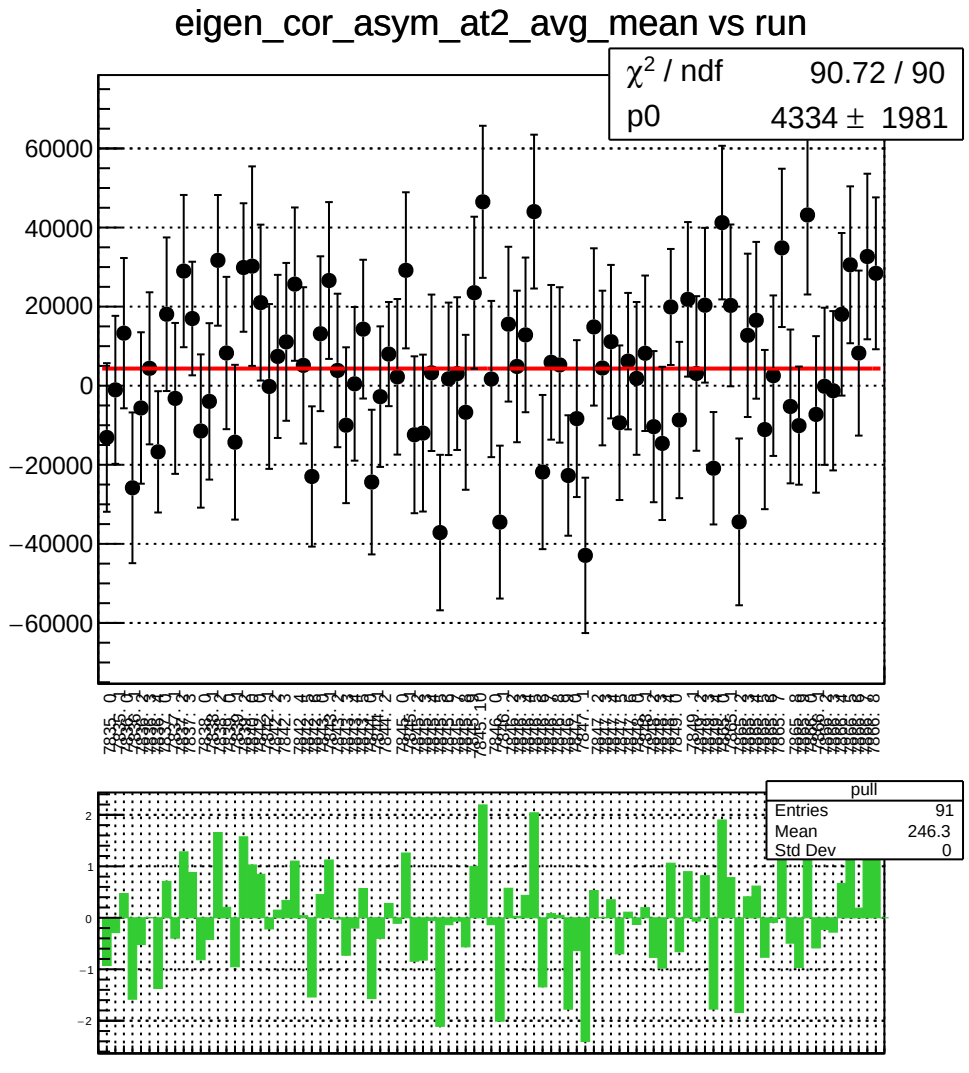

cor_asym_at2_avg_mean vs run
χ² / ndf 90.72 / 90
p0 4334 ± 1981
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 246.3
Std Dev 0
2
1
0
−1
−2

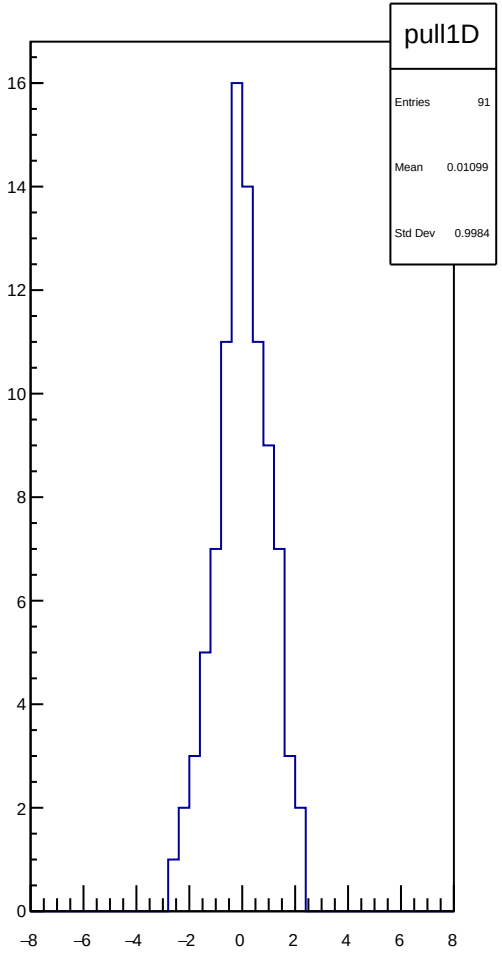

pull1D
Entries 91
Mean 0.01099
Std Dev 0.9984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

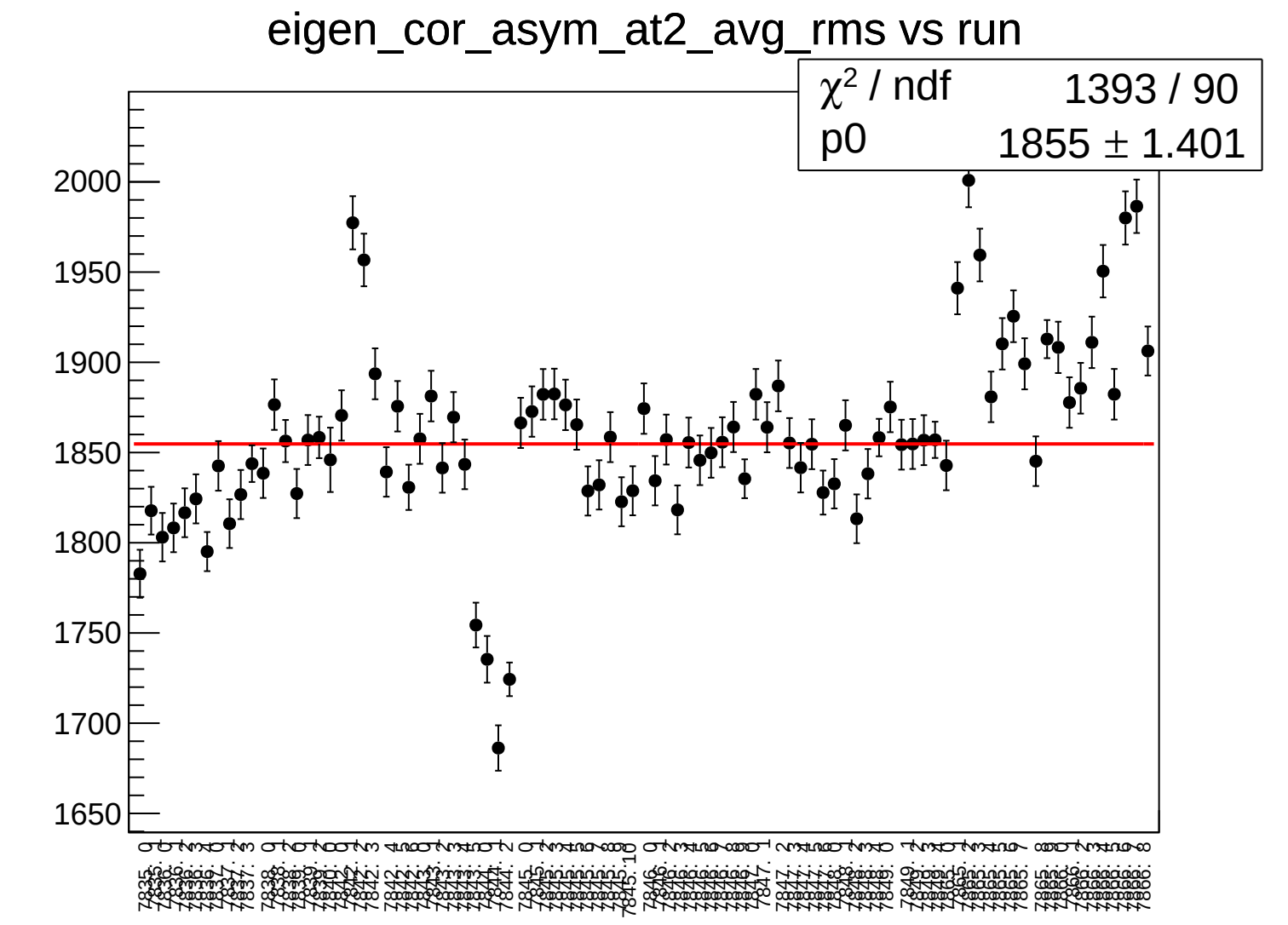

cor_asym_at2_avg_rms vs run
χ² / ndf 1393 / 90
p0 1855 ± 1.401
2000
1950
1900
1850
1800
1750
1700
1650

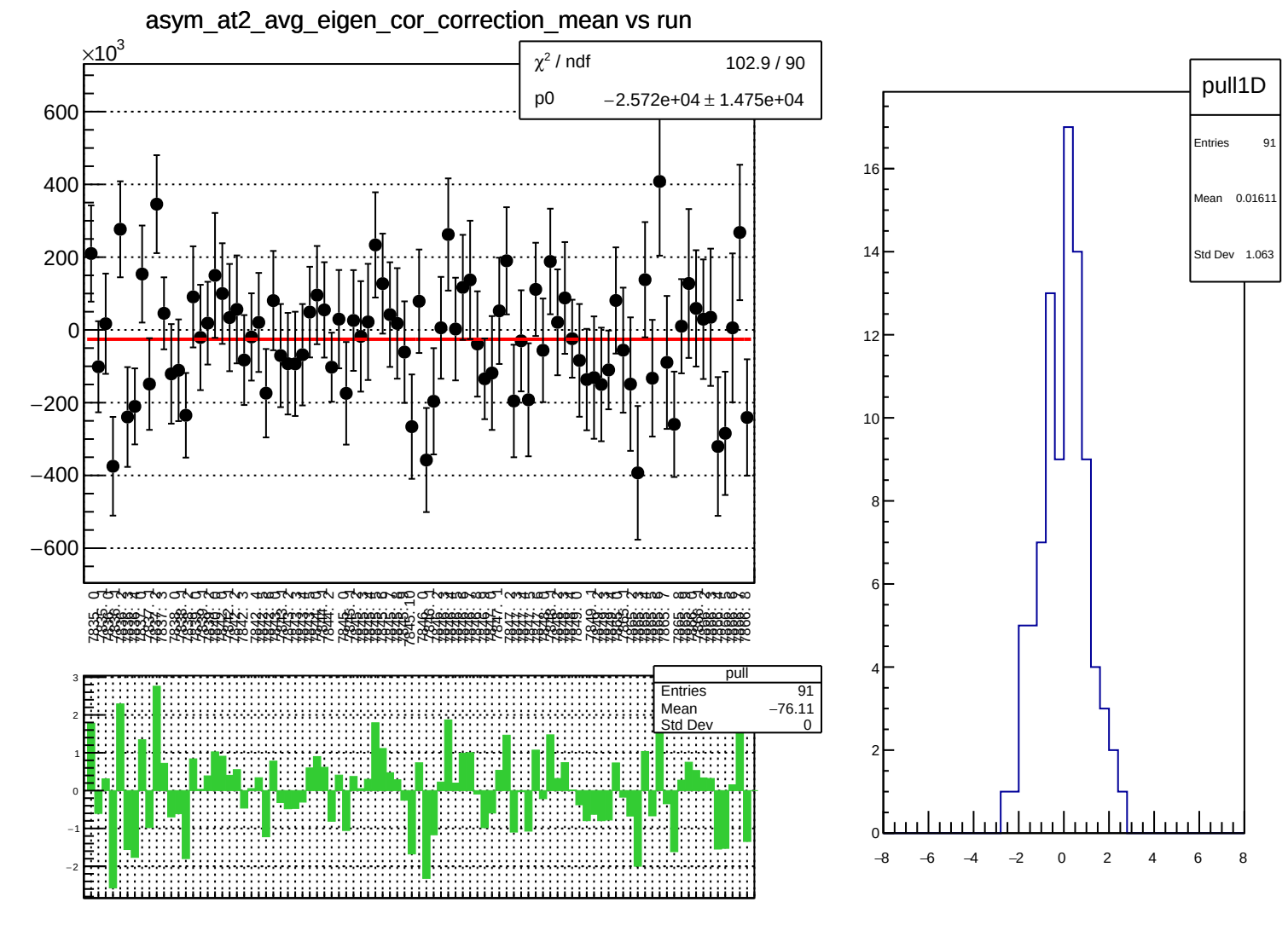

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 102.9 / 90
p0 −2.572e+04 ± 1.475e+04
pull
Entries 91
Mean −76.11
Std Dev 0
pull1D
Entries 91
Mean 0.01611
Std Dev 1.063

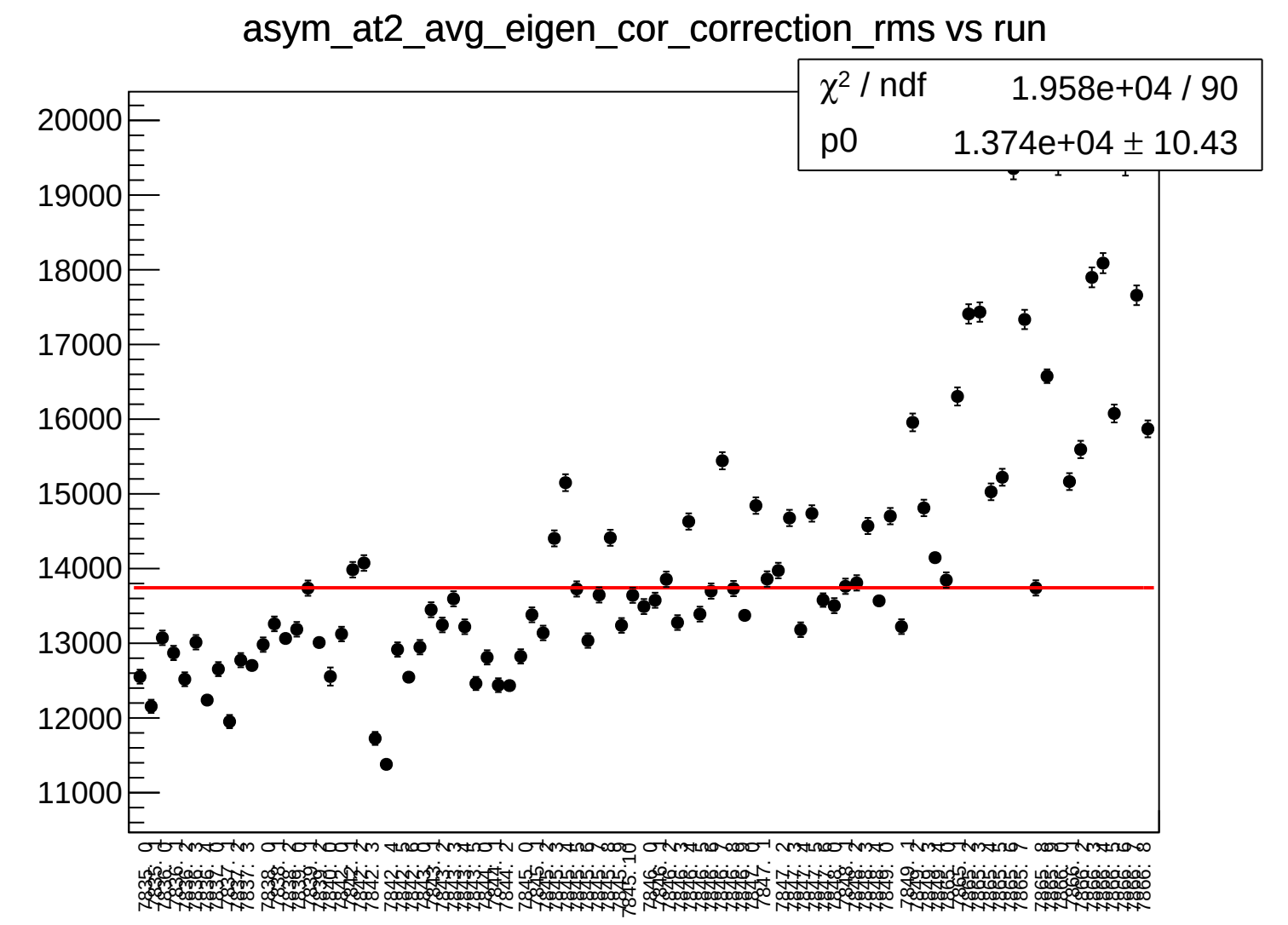

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.958e+04 / 90
p0 1.374e+04 ± 10.43
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000

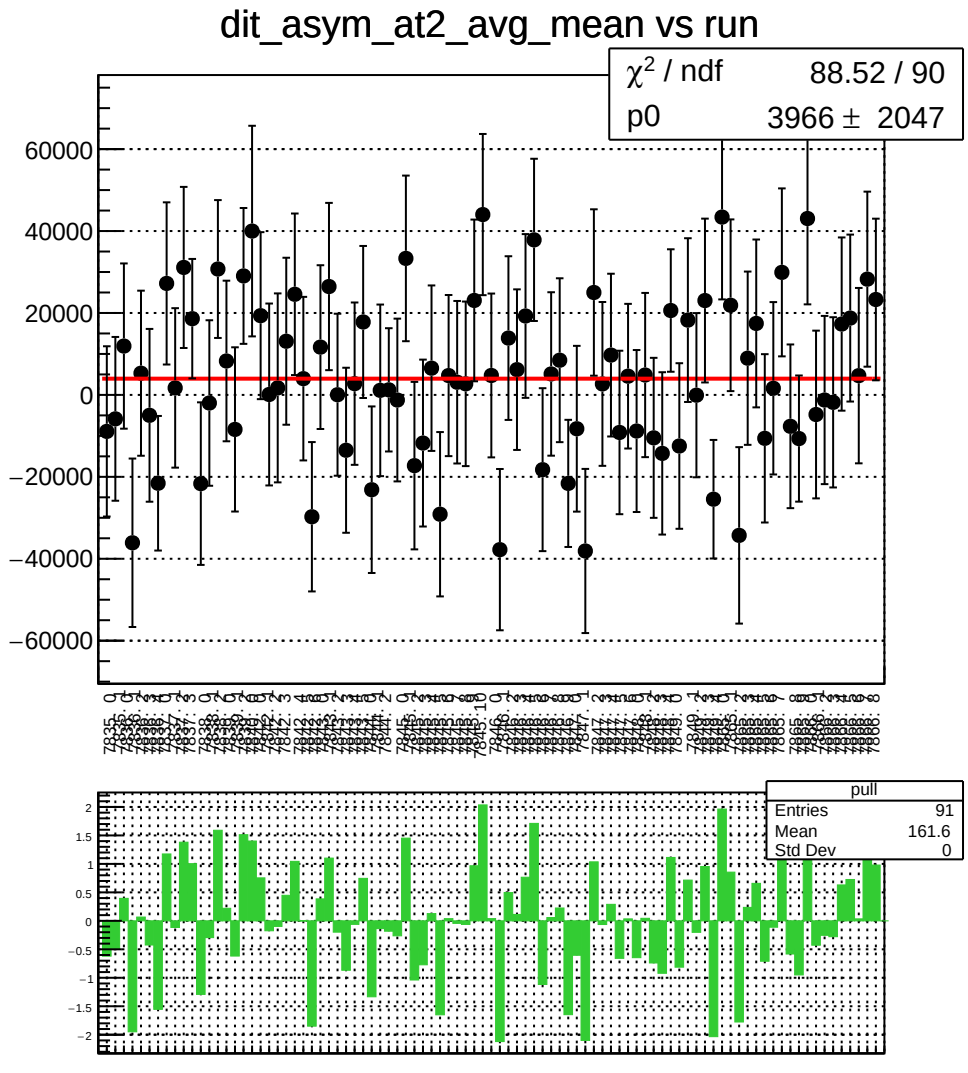

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 90.72 / 90
p0 4334 ± 1981
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 246.3
Std Dev 0
2
1
0
−1
−2

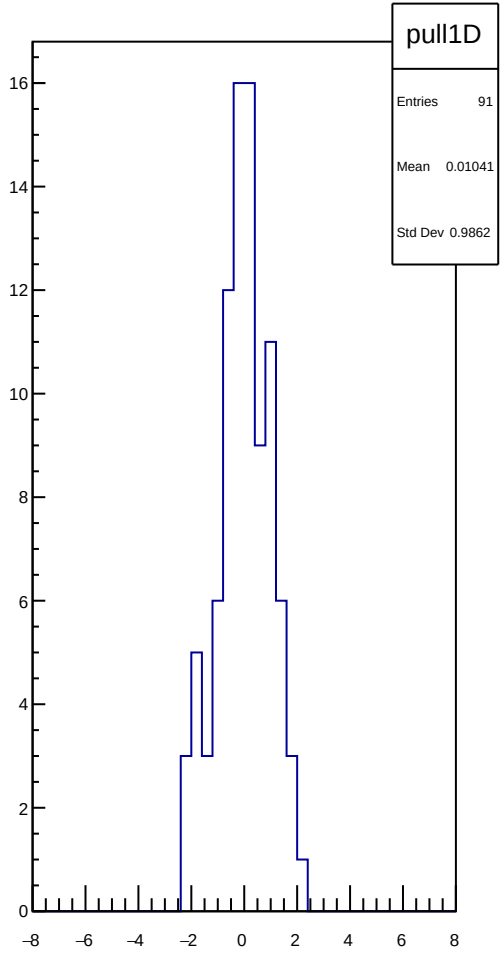

pull1D
Entries 91
Mean 0.01099
Std Dev 0.9984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

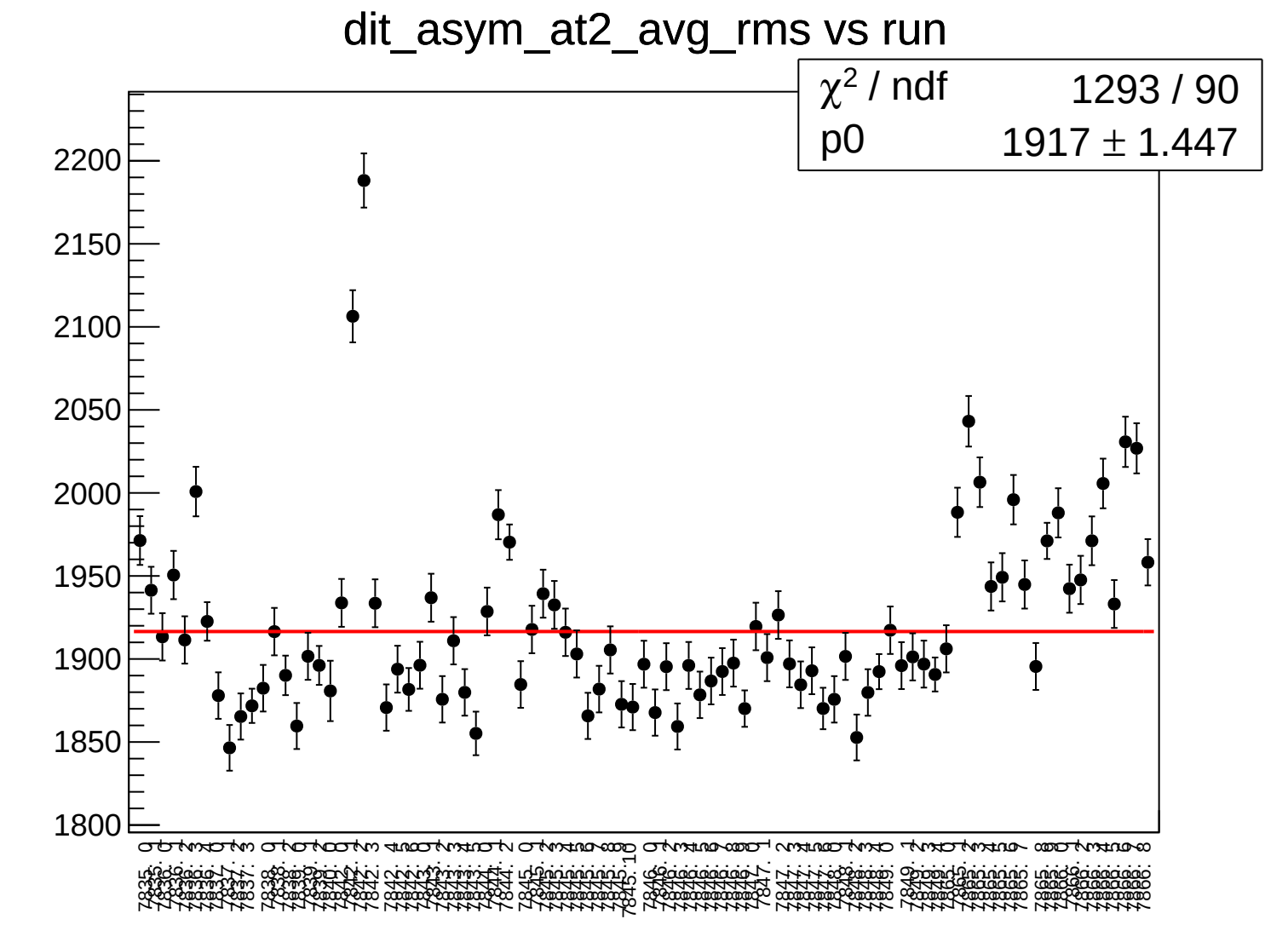

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1393 / 90
p0 1855 ± 1.401
2000
1950
1900
1850
1800
1750
1700
1650

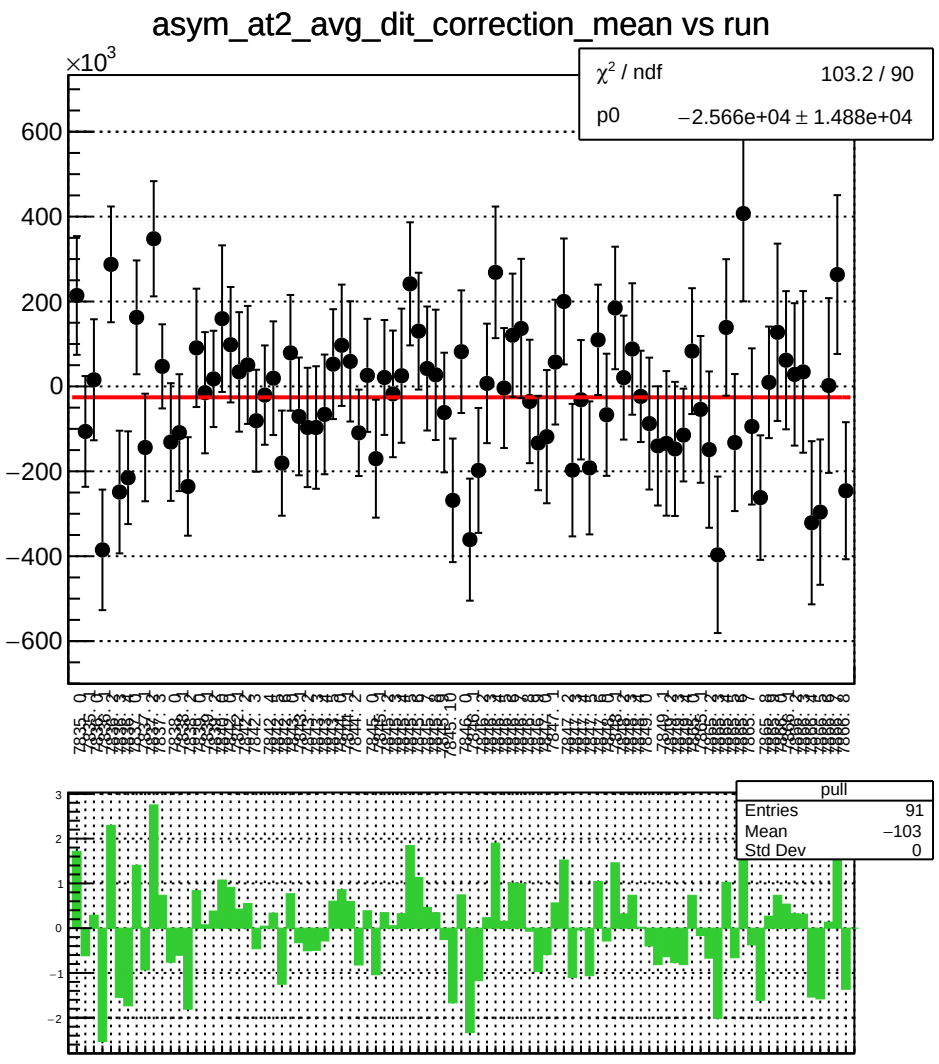

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.9 / 90
p0 −2.572e+04 ± 1.475e+04
pull
Entries 91
Mean −76.11
Std Dev 0
pull1D
Entries 91
Mean 0.01611
Std Dev 1.063

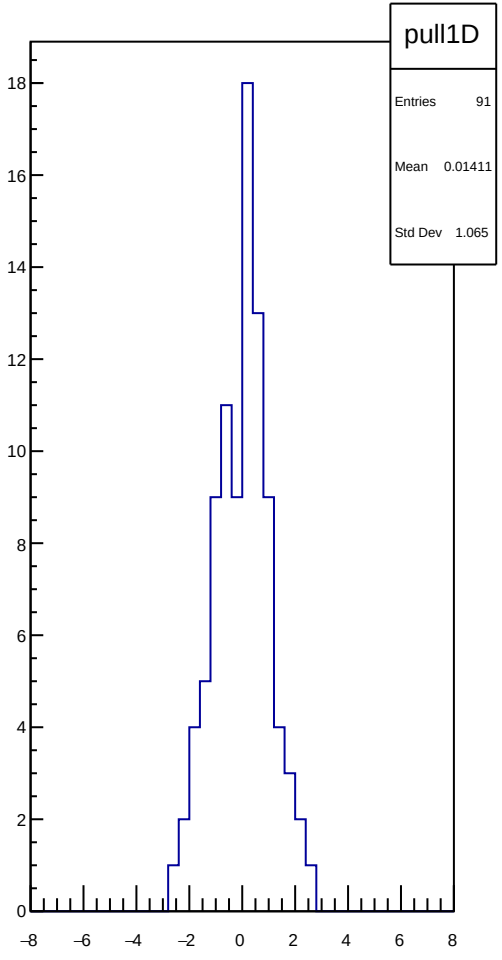

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.958e+04 / 90
p0 1.374e+04 ± 10.43
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000

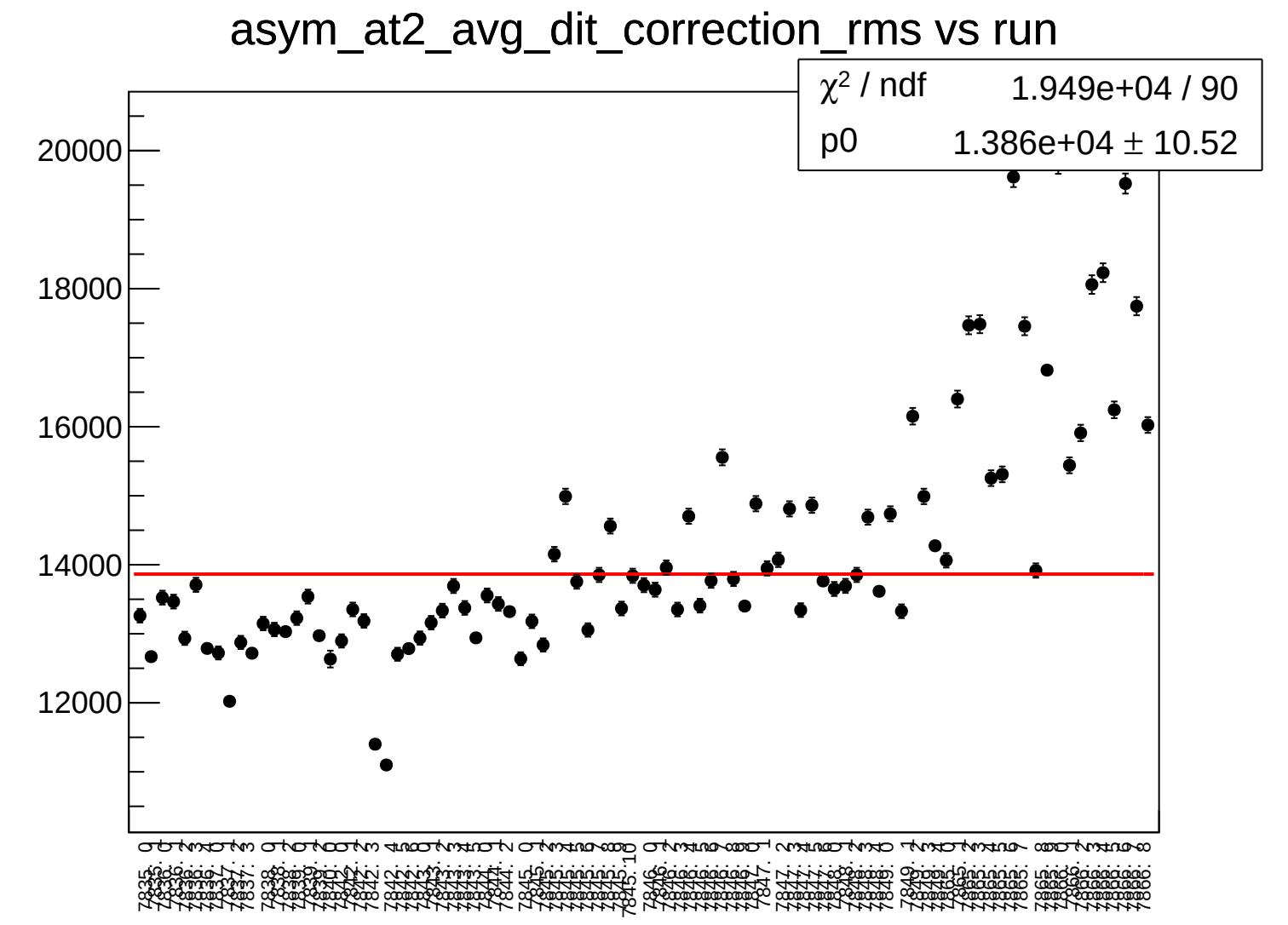

dit_asym_at2_avg_mean vs run
χ² / ndf 88.52 / 90
p0 3966 ± 2047
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 161.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

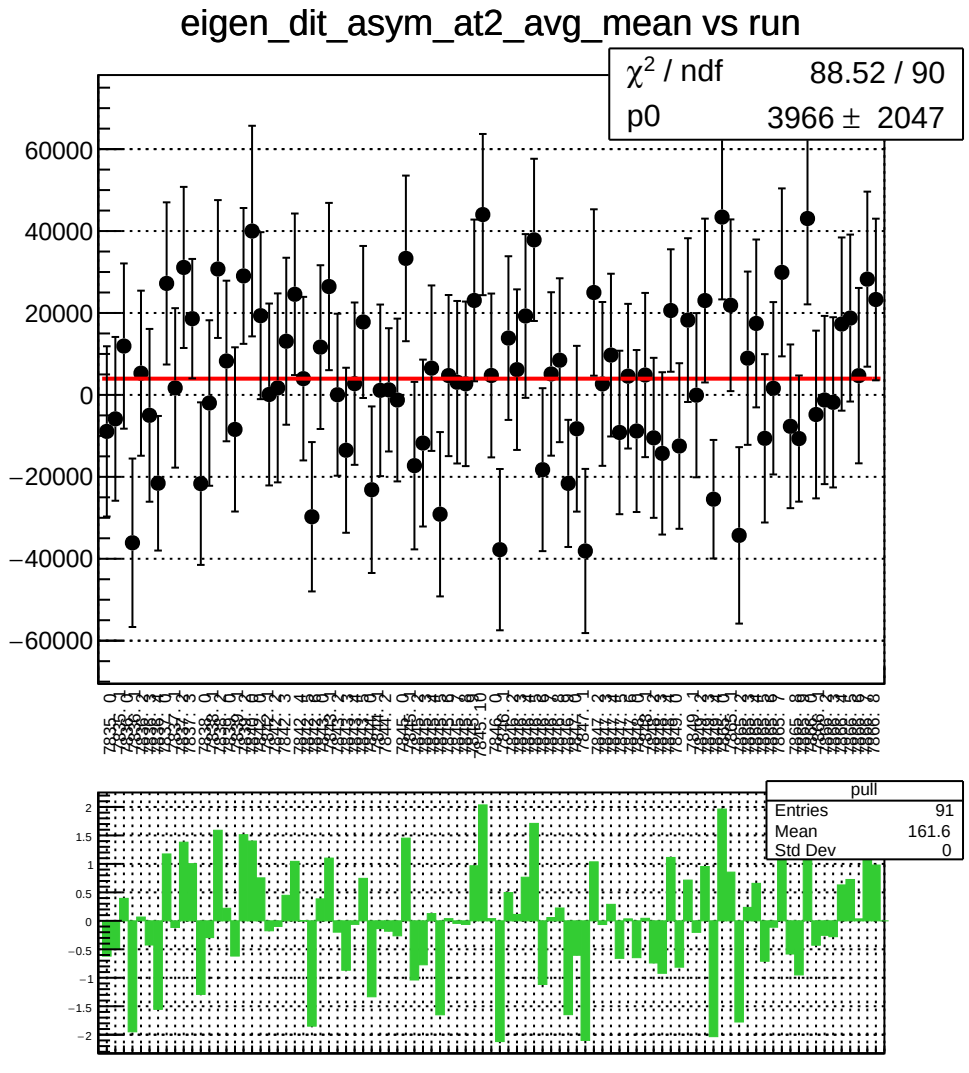

pull1D
Entries 91
Mean 0.01041
Std Dev 0.9862
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

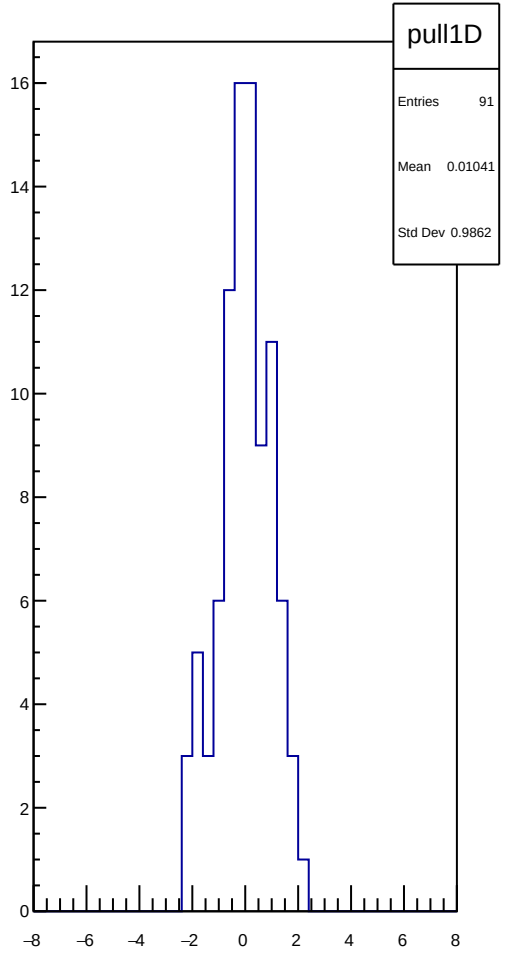

dit_asym_at2_avg_rms vs run
χ² / ndf 1293 / 90
p0 1917 ± 1.447
2200
2150
2100
2050
2000
1950
1900
1850
1800

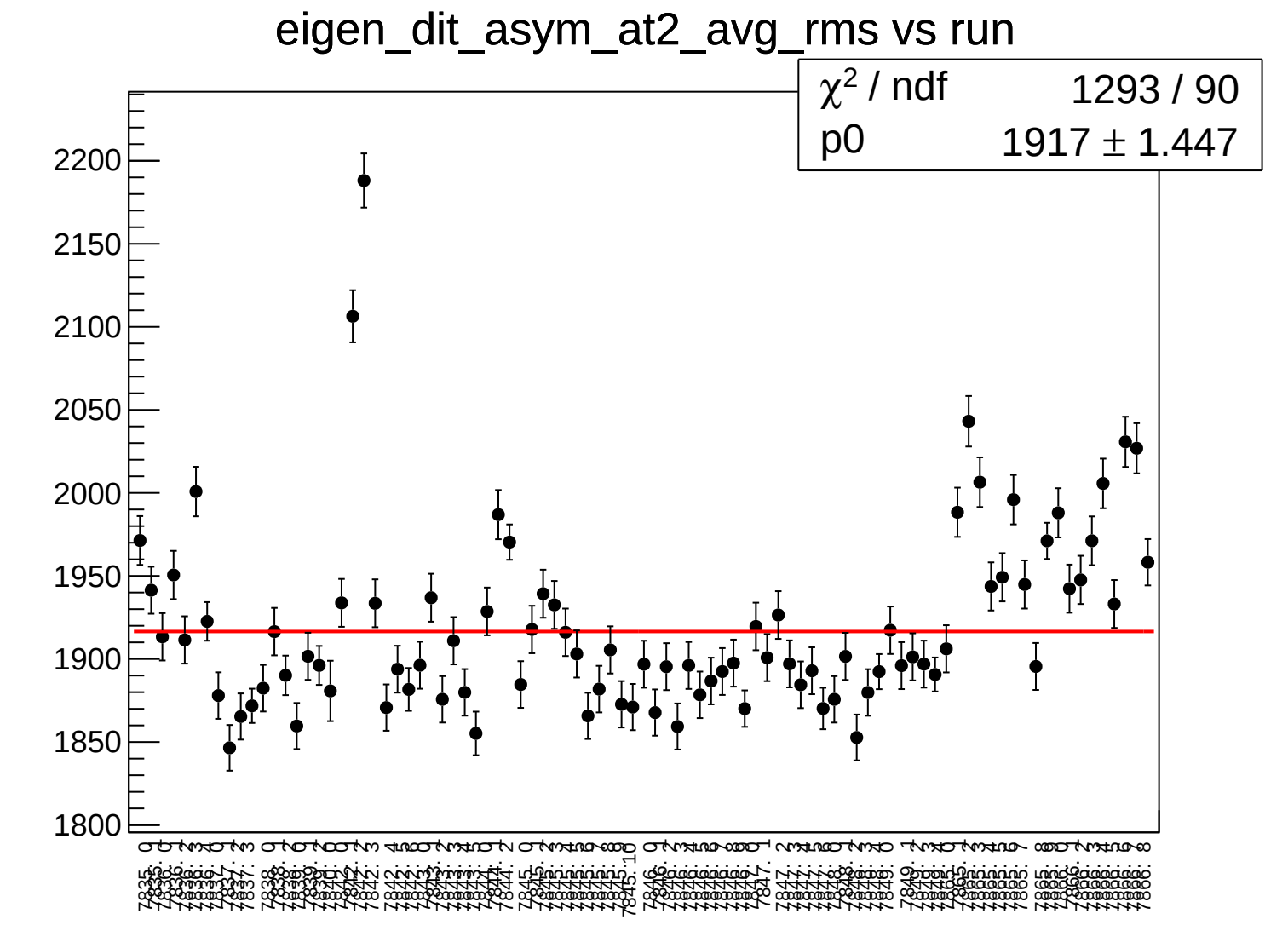

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.2 / 90
p0 −2.566e+04 ± 1.488e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −103
Std Dev 0
3
2
1
0
−1
−2

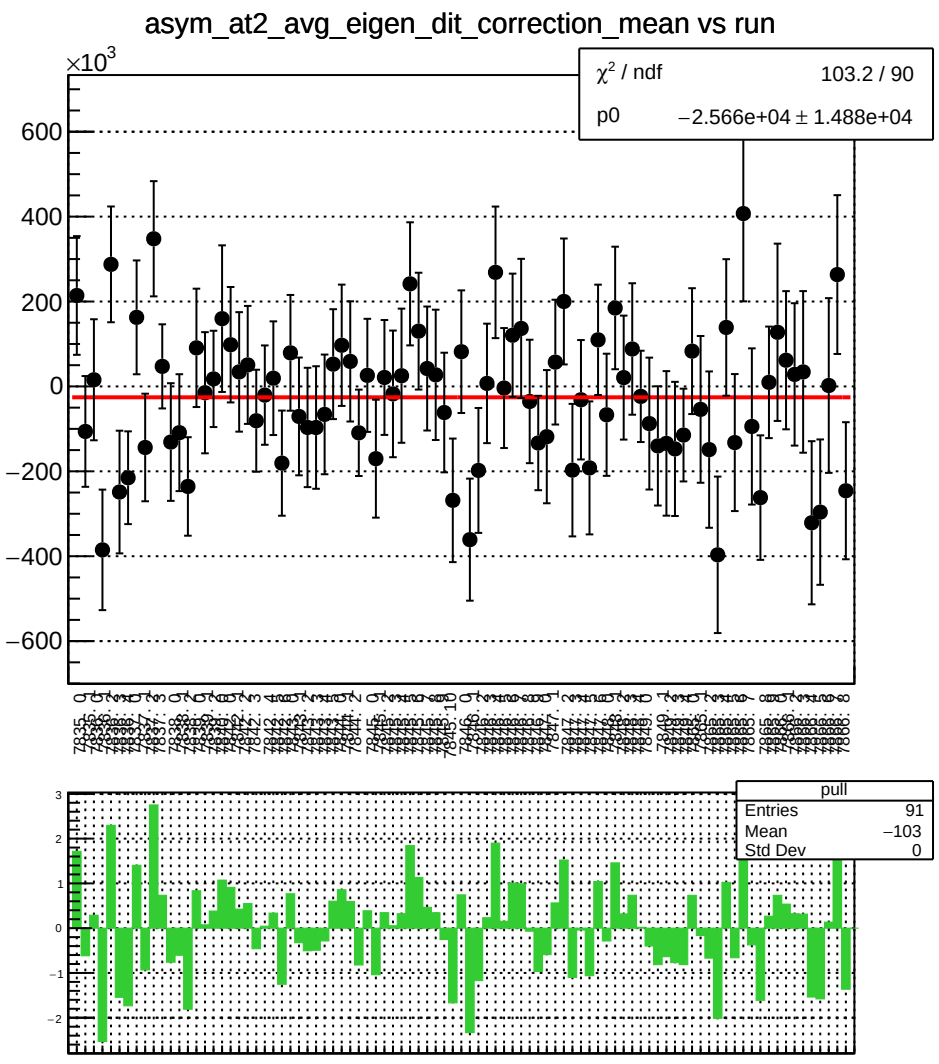

pull1D
Entries 91
Mean 0.01411
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

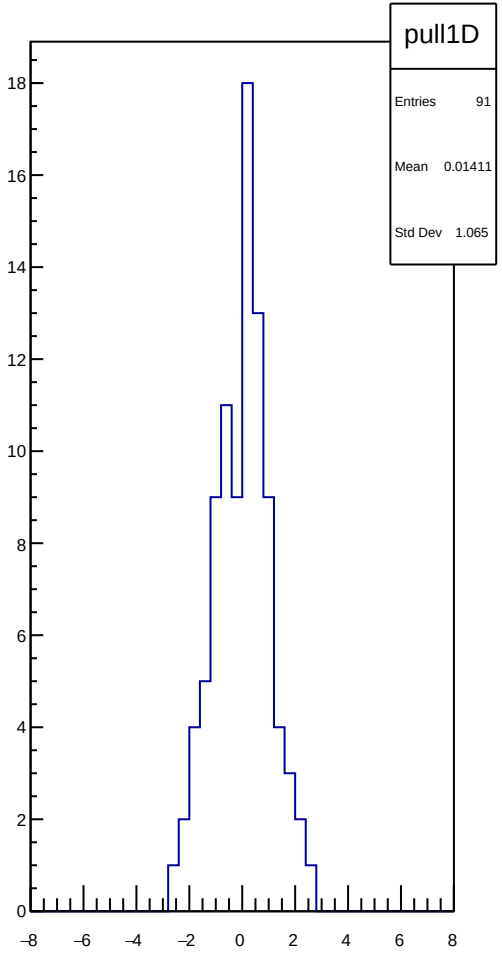

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.949e+04 / 90
p0 1.386e+04 ± 10.52
20000
18000
16000
14000
12000

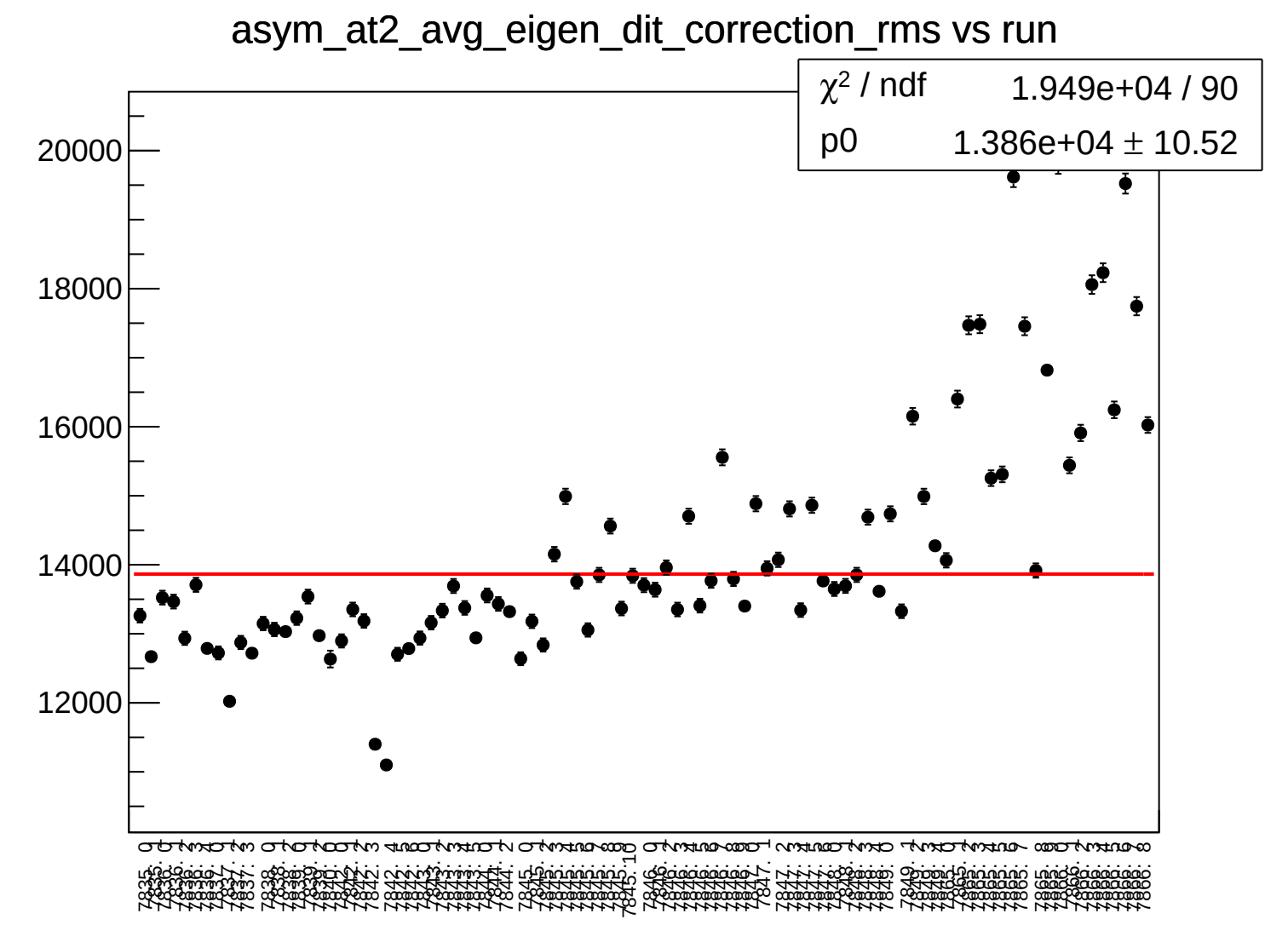

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 88.52 / 90
p0 3966 ± 2047
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 161.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

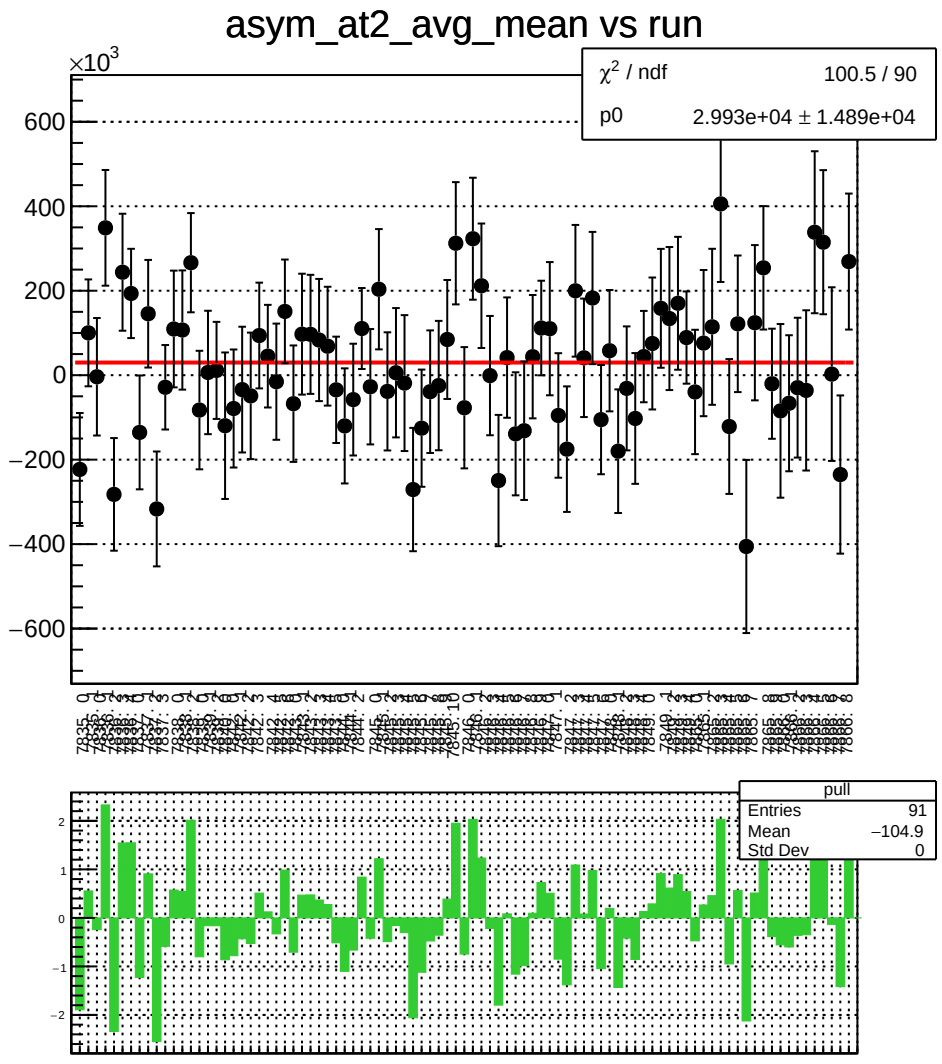

pull1D
Entries 91
Mean 0.01041
Std Dev 0.9862
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

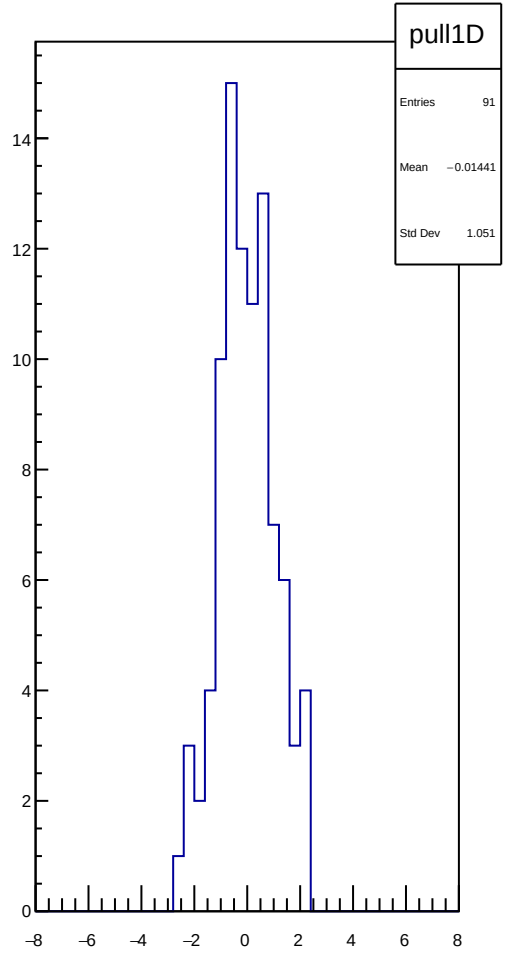

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1293 / 90
p0 1917 ± 1.447
2200
2150
2100
2050
2000
1950
1900
1850
1800

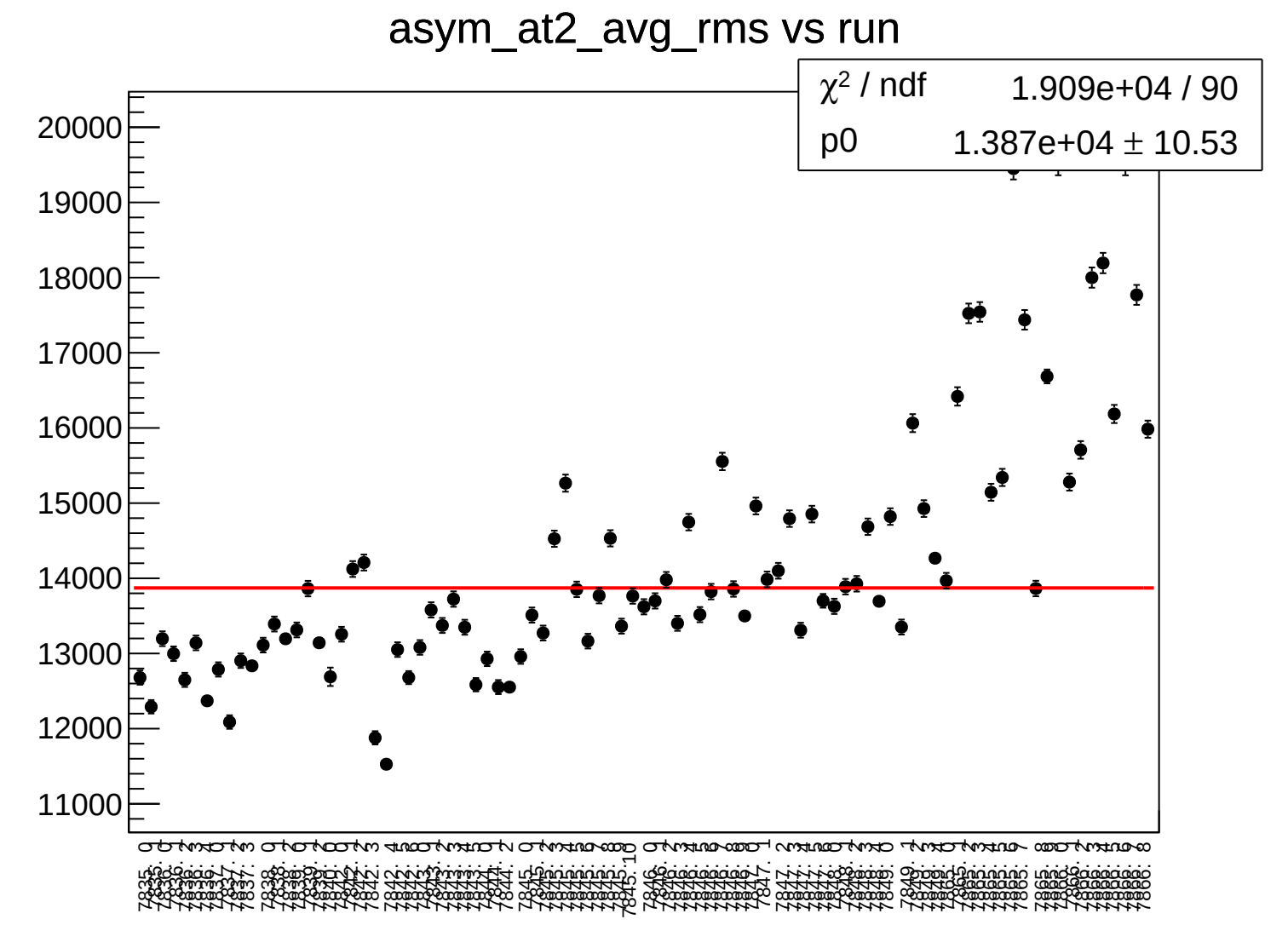

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.2 / 90
p0 −2.566e+04 ± 1.488e+04
pull
Entries 91
Mean −103
Std Dev 0

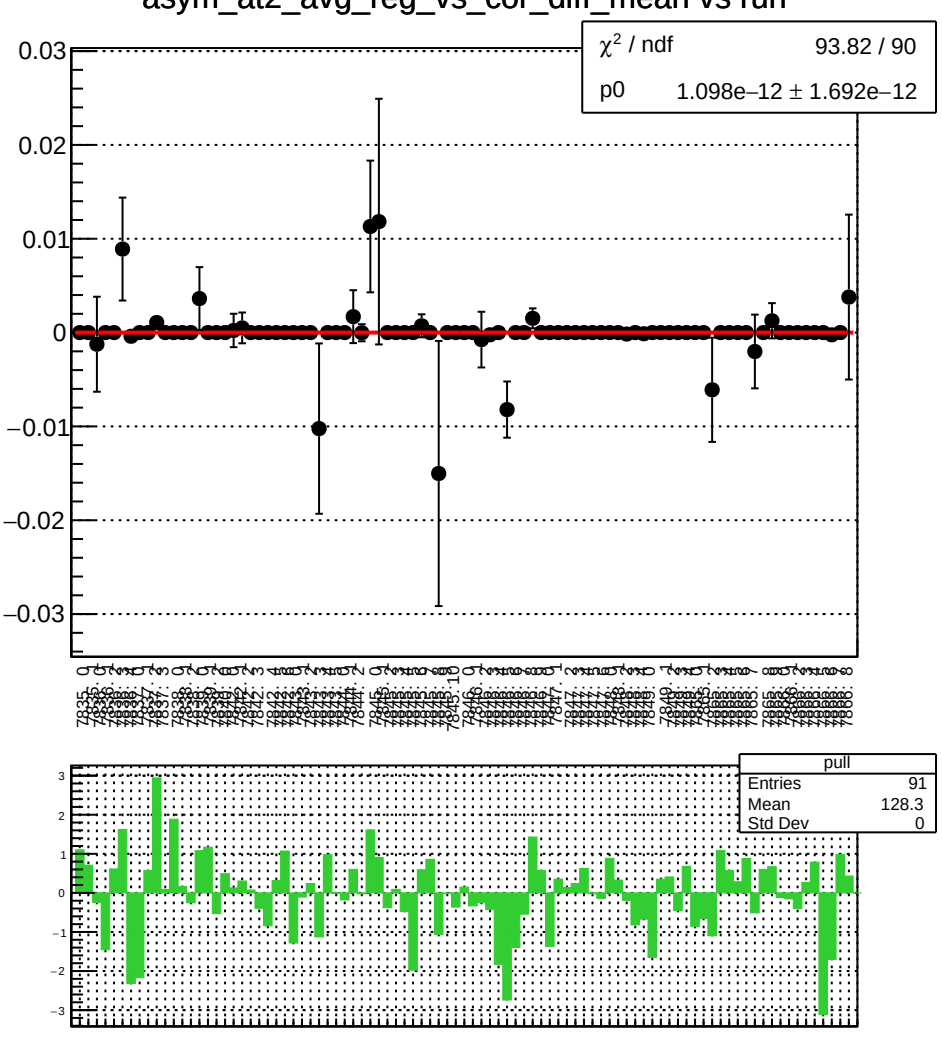

pull1D
Entries 91
Mean 0.01411
Std Dev 1.065

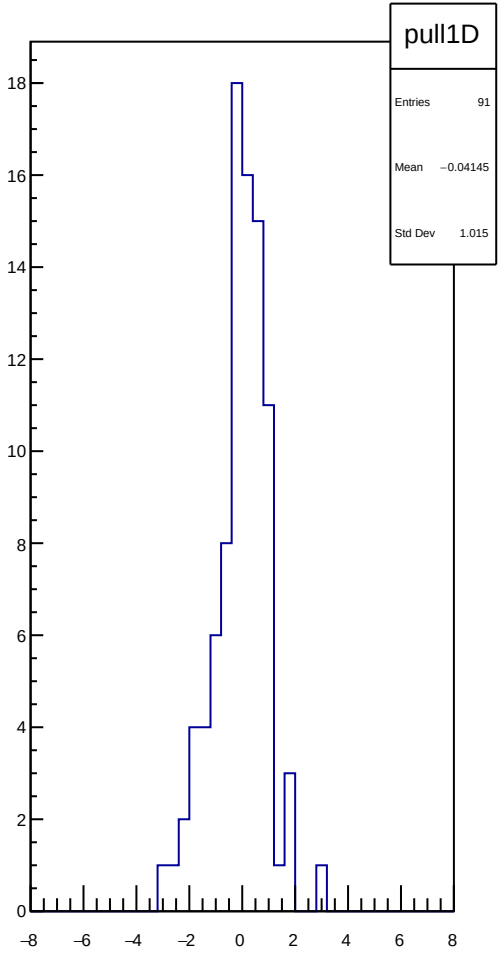

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.949e+04 / 90
p0 1.386e+04 ± 10.52
20000
18000
16000
14000
12000

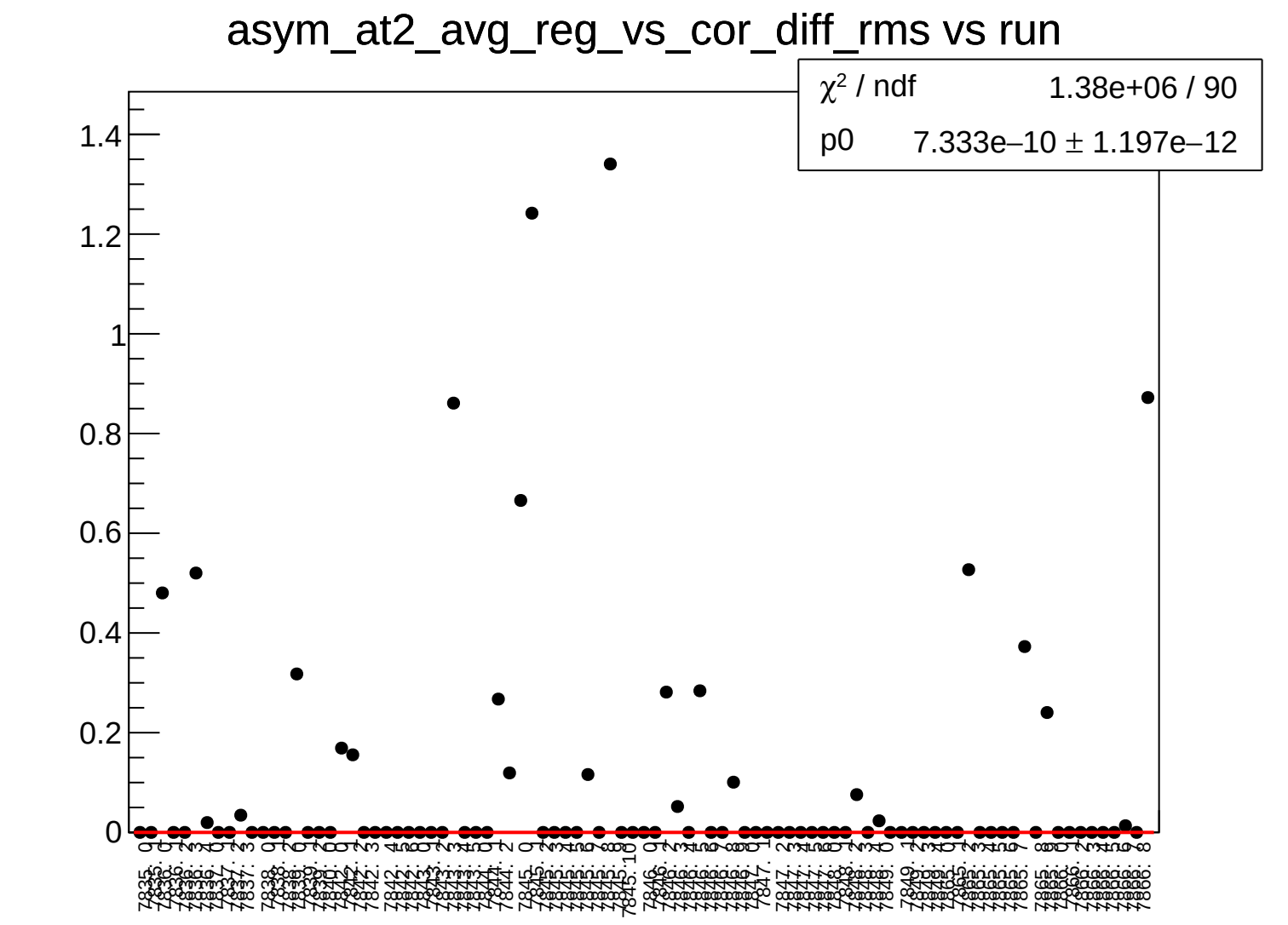

asym_at2_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 100.5 / 90
p0 2.993e+04 ± 1.489e+04
pull
Entries 91
Mean −104.9
Std Dev 0
2
1
0
−1
−2

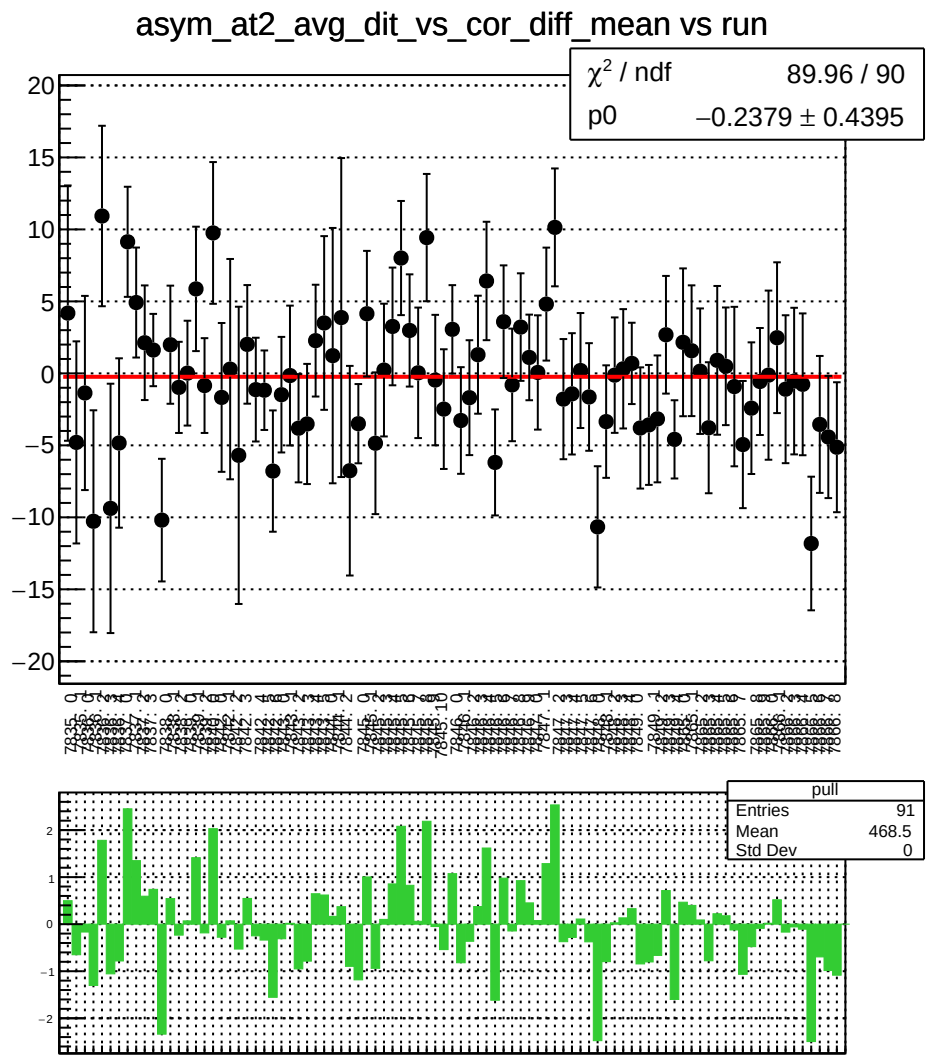

pull1D
Entries 91
Mean −0.01441
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

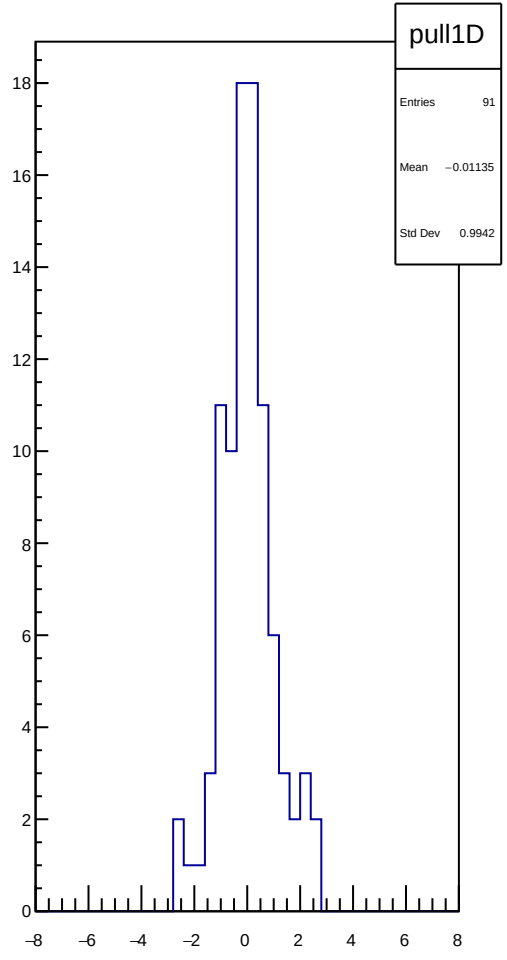

asym_at2_avg_rms vs run
χ² / ndf 1.909e+04 / 90
p0 1.387e+04 ± 10.53
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000

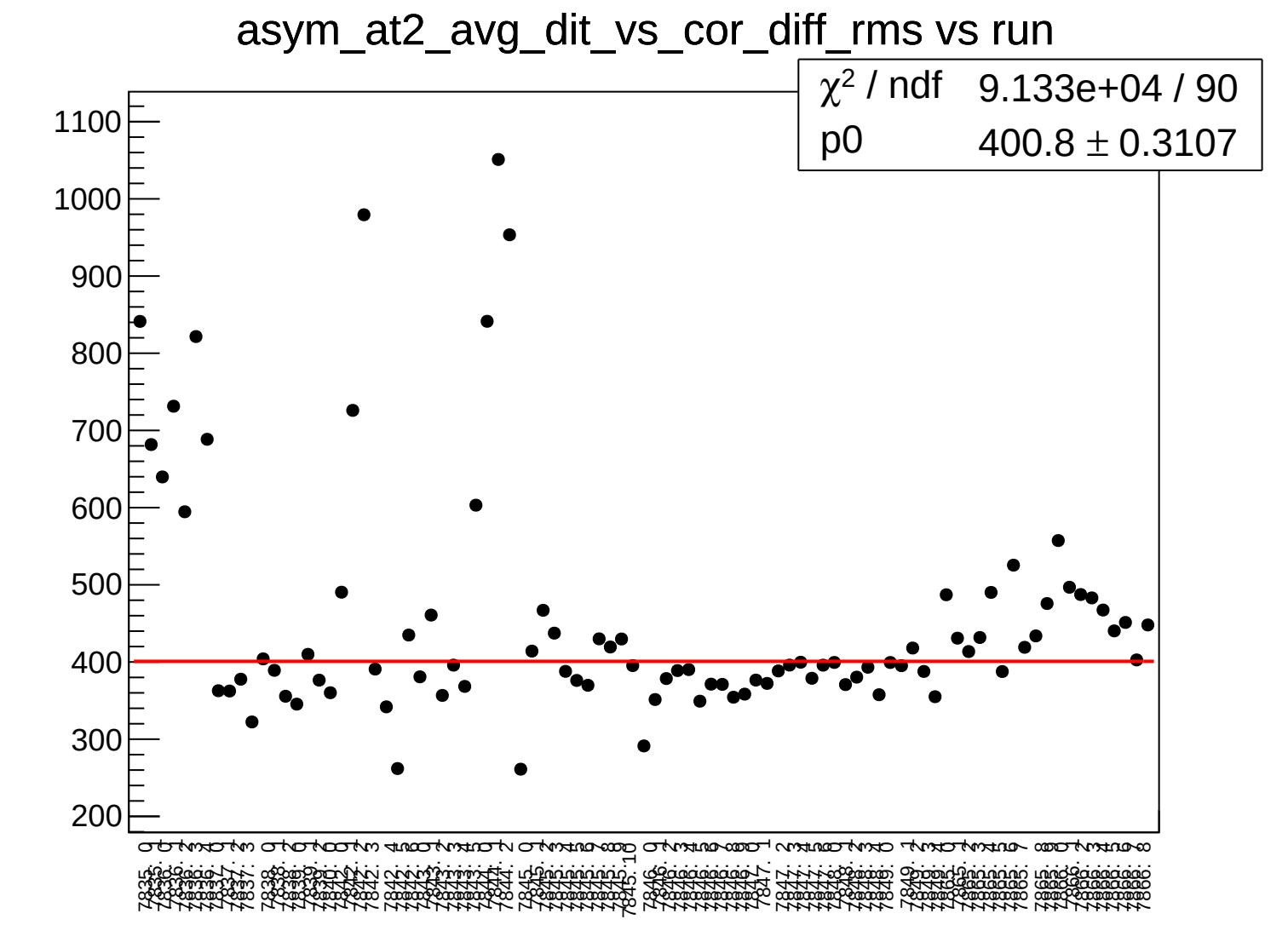

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.82 / 90
p0 1.098e−12 ± 1.692e−12
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 128.3
Std Dev 0

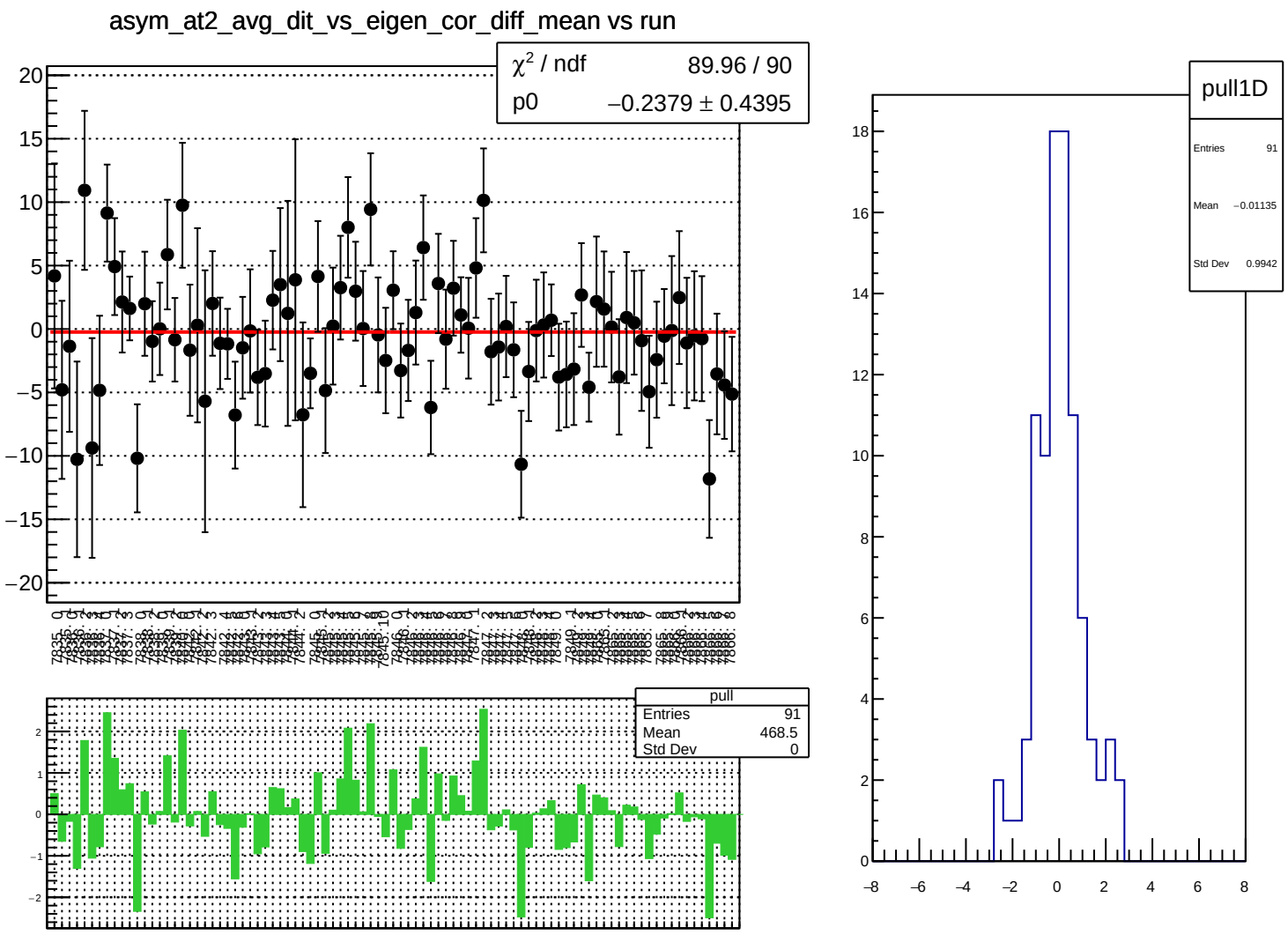

pull1D
Entries 91
Mean −0.04145
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

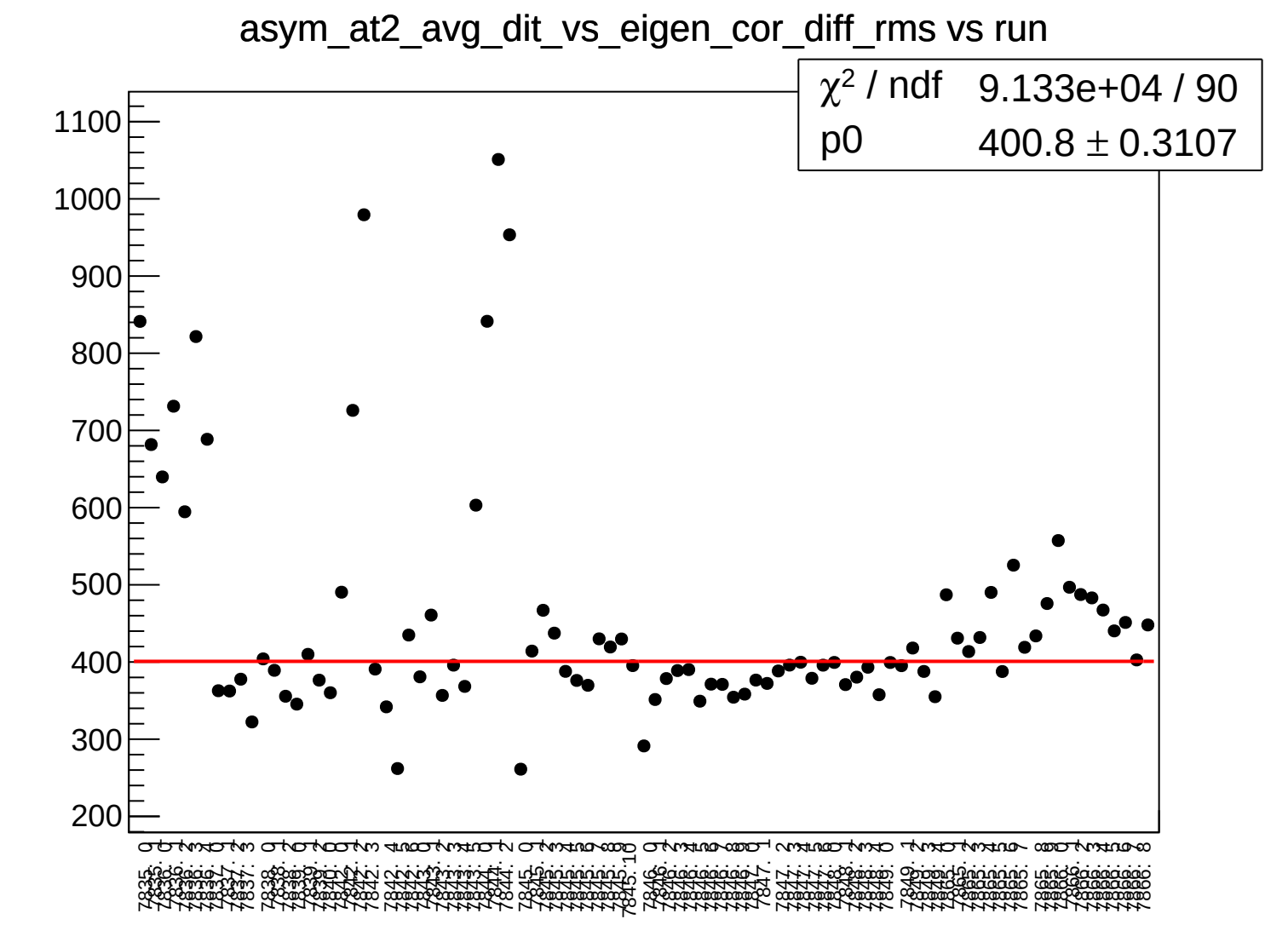

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.38e+06 / 90
p0 7.333e−10 ± 1.197e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

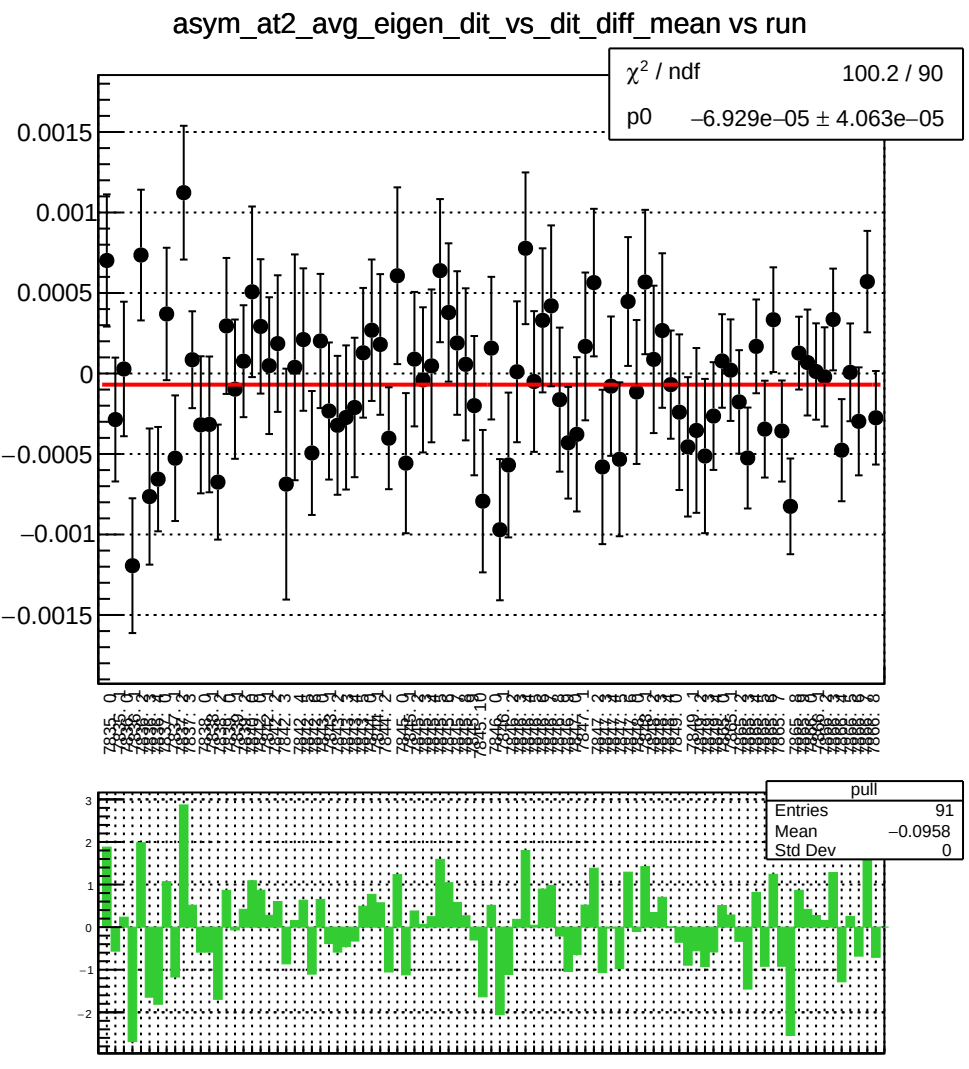

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.96 / 90
p0 −0.2379 ± 0.4395
pull
Entries 91
Mean 468.5
Std Dev 0

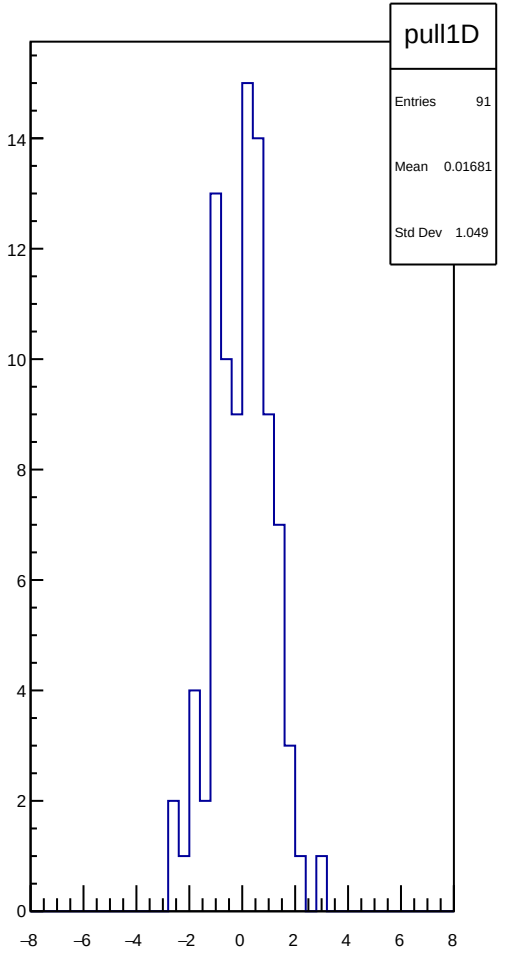

pull1D
Entries 91
Mean −0.01135
Std Dev 0.9942

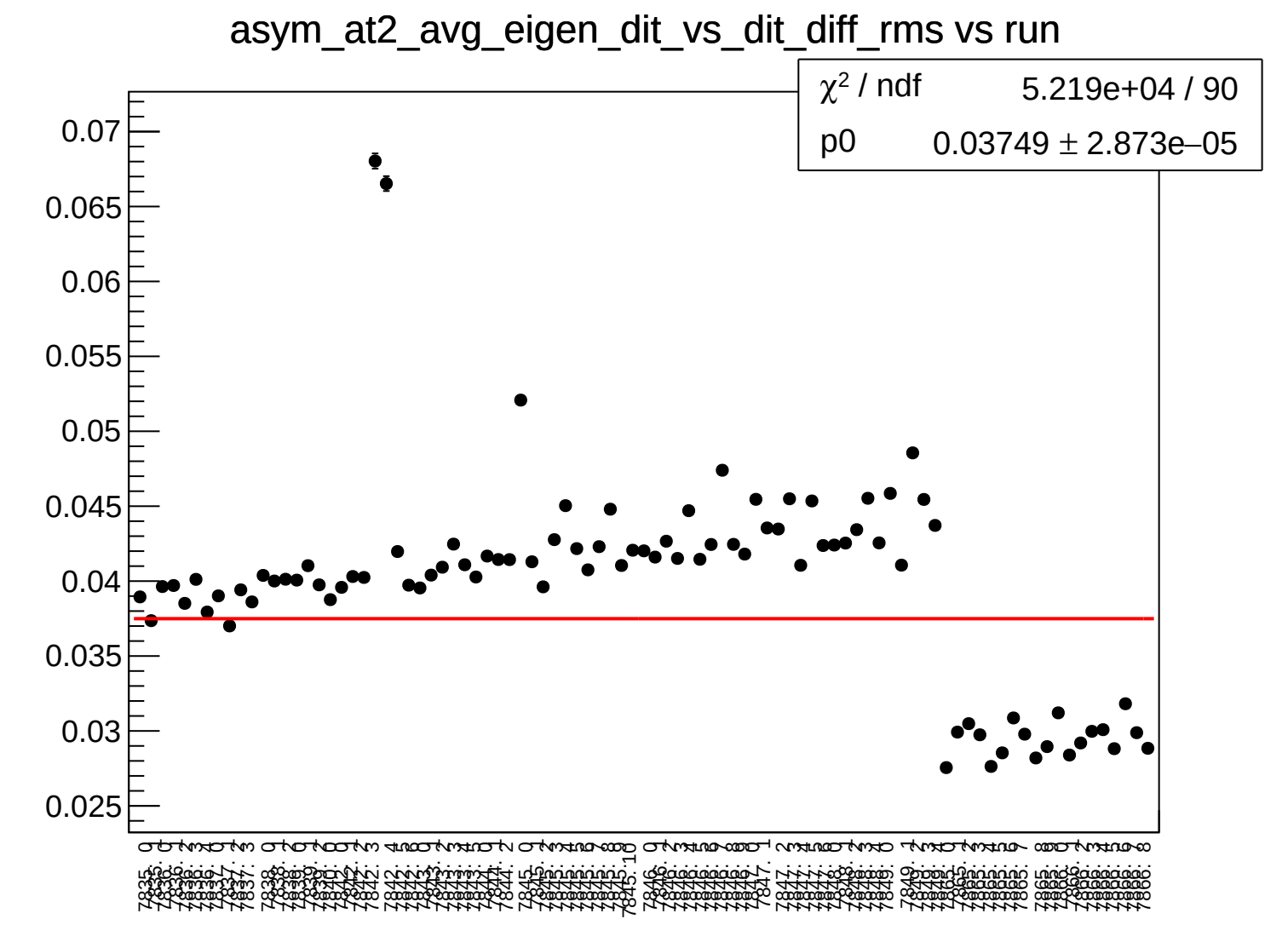

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.133e+04 / 90
p0 400.8 ± 0.3107
1100
1000
900
800
700
600
500
400
300
200

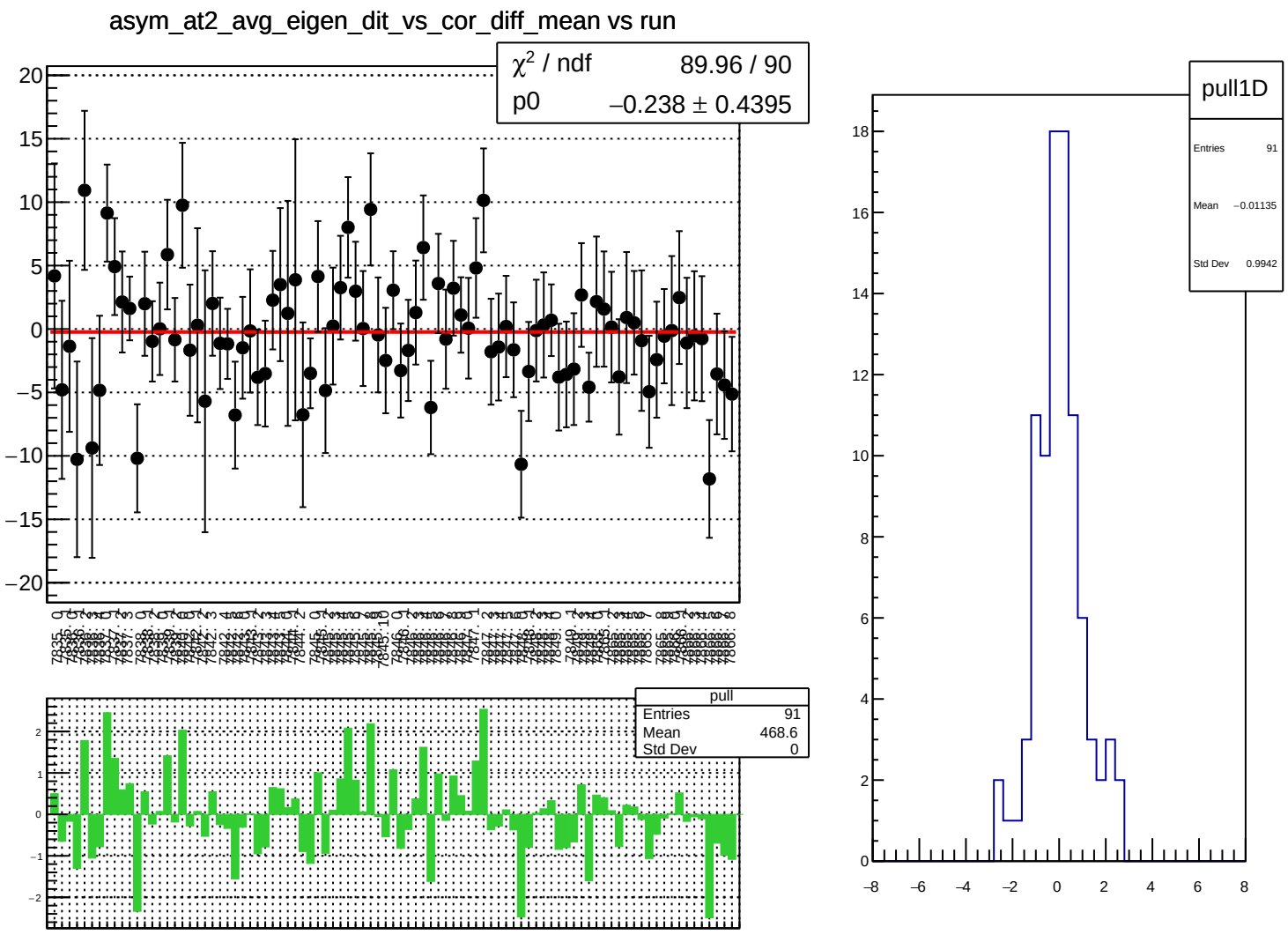

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.96 / 90
p0 −0.2379 ± 0.4395
pull
Entries 91
Mean 468.5
Std Dev 0
pull1D
Entries 91
Mean −0.01135
Std Dev 0.9942

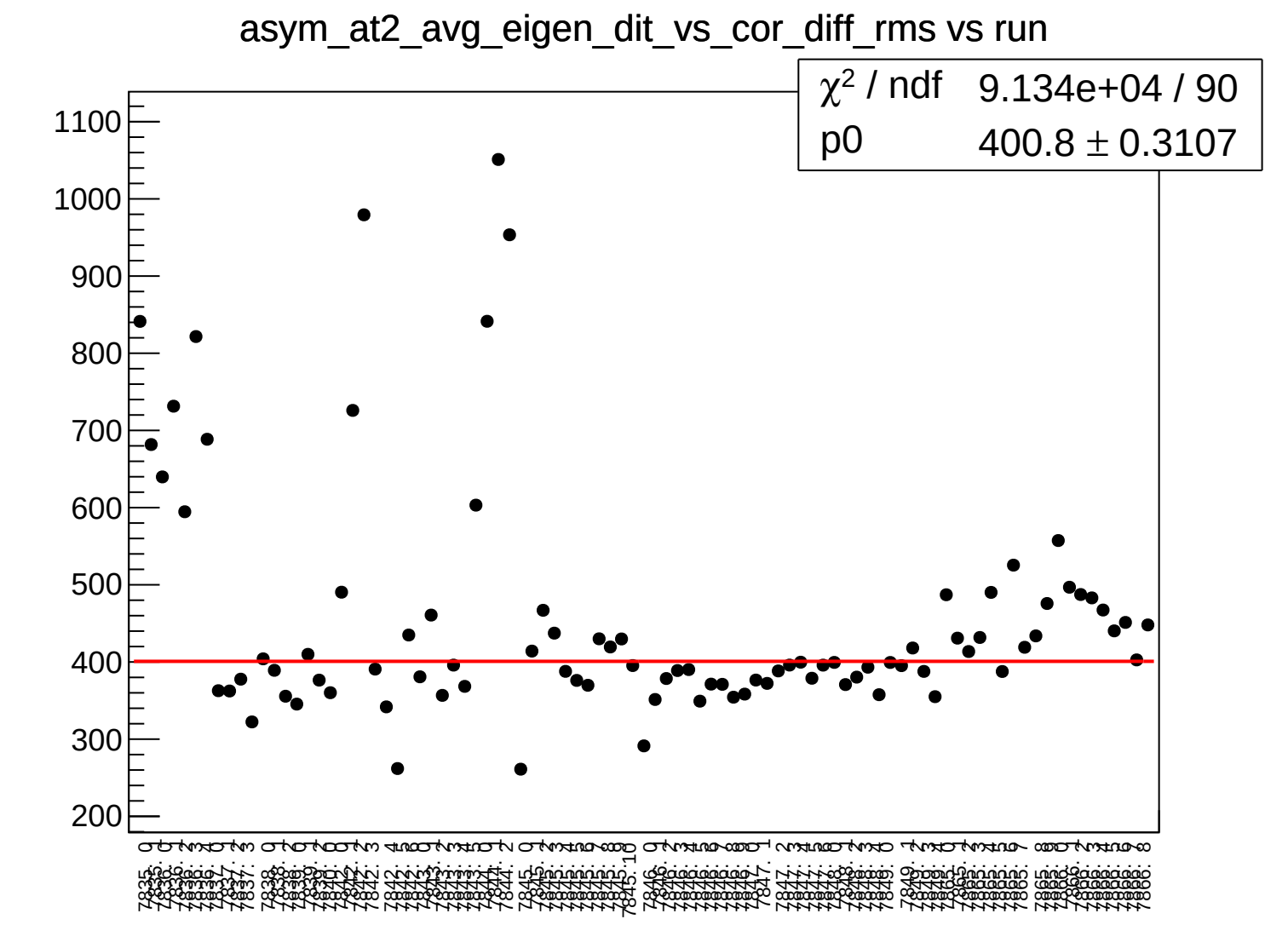

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.133e+04 / 90
p0 400.8 ± 0.3107
1100
1000
900
800
700
600
500
400
300
200

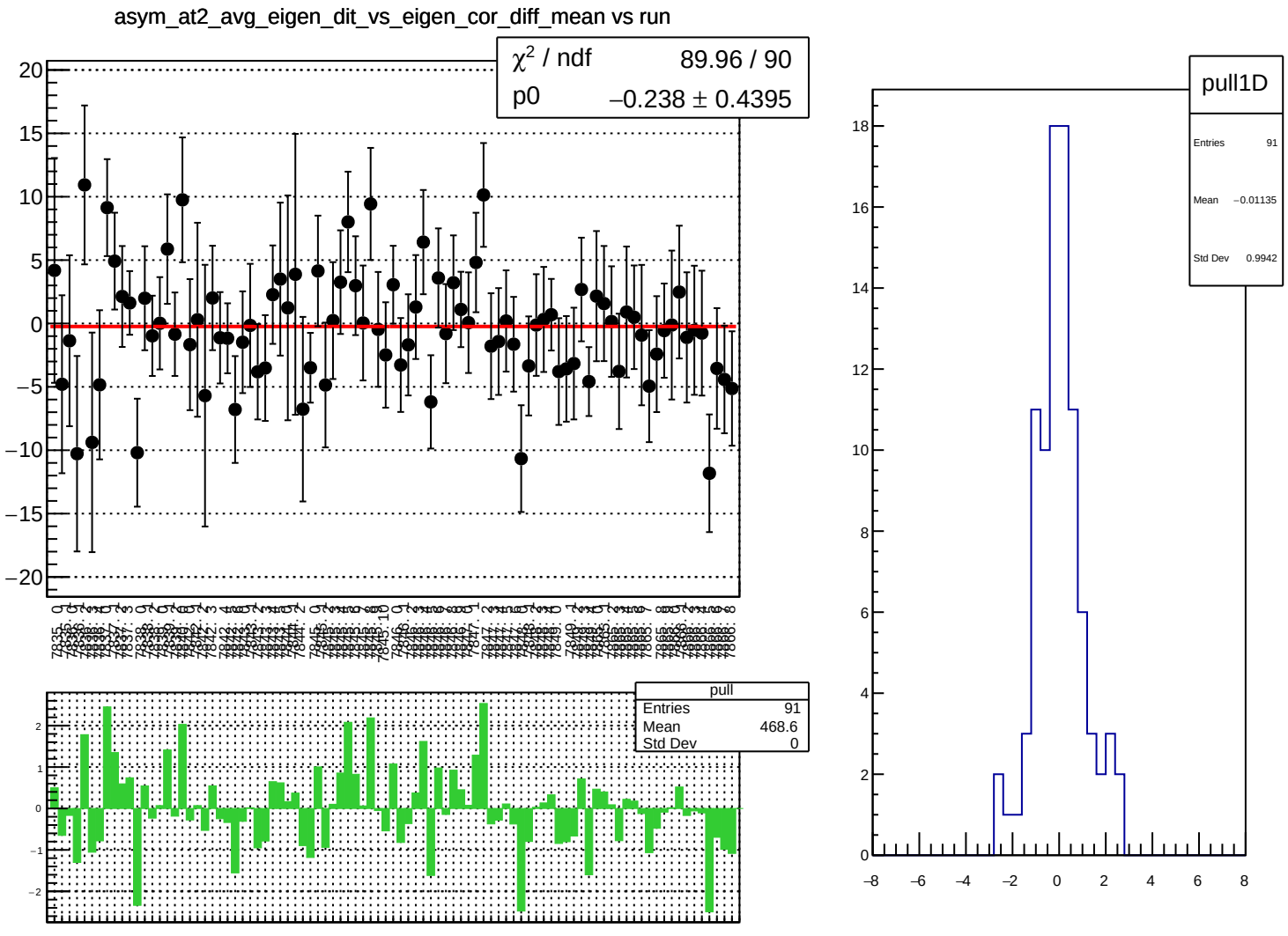

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.2 / 90
p0 −6.929e−05 ± 4.063e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean −0.0958
Std Dev 0
3
2
1
0
−1
−2

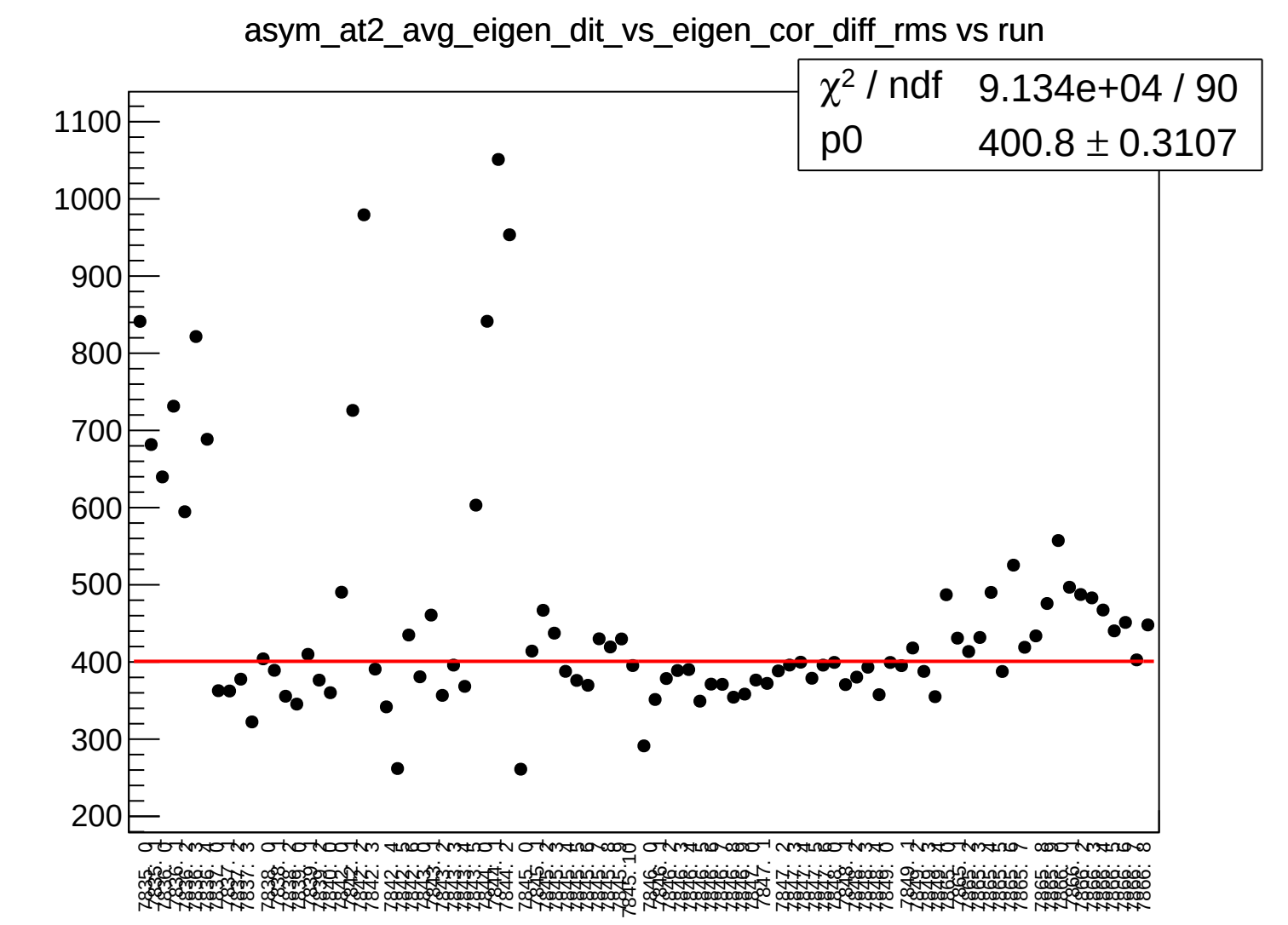

pull1D
Entries 91
Mean 0.01681
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

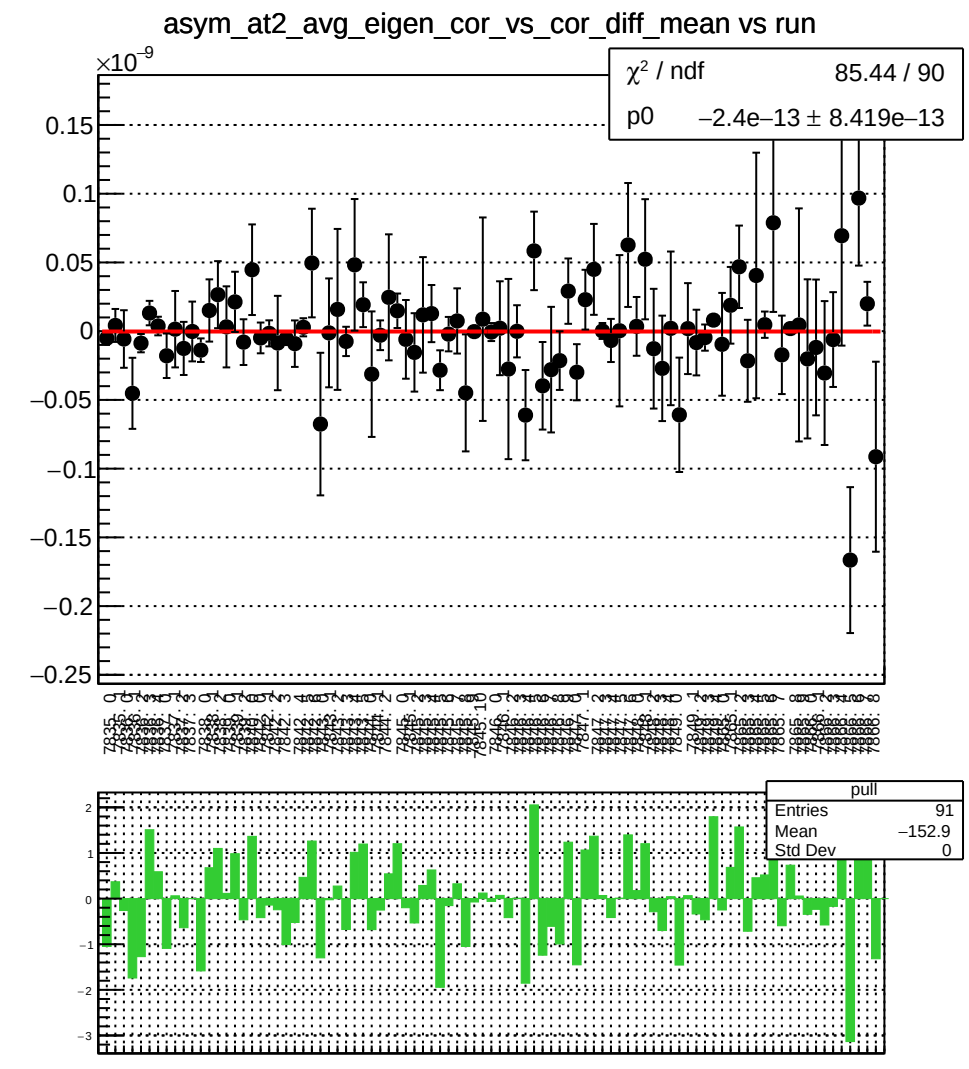

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.219e+04 / 90
p0 0.03749 ± 2.873e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025

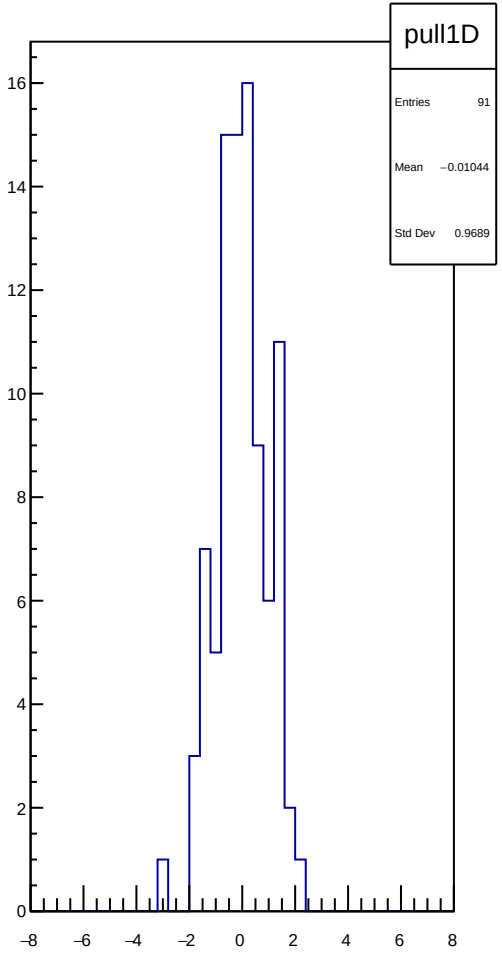

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.96 / 90
p0 −0.238 ± 0.4395
pull
Entries 91
Mean 468.6
Std Dev 0
pull1D
Entries 91
Mean −0.01135
Std Dev 0.9942

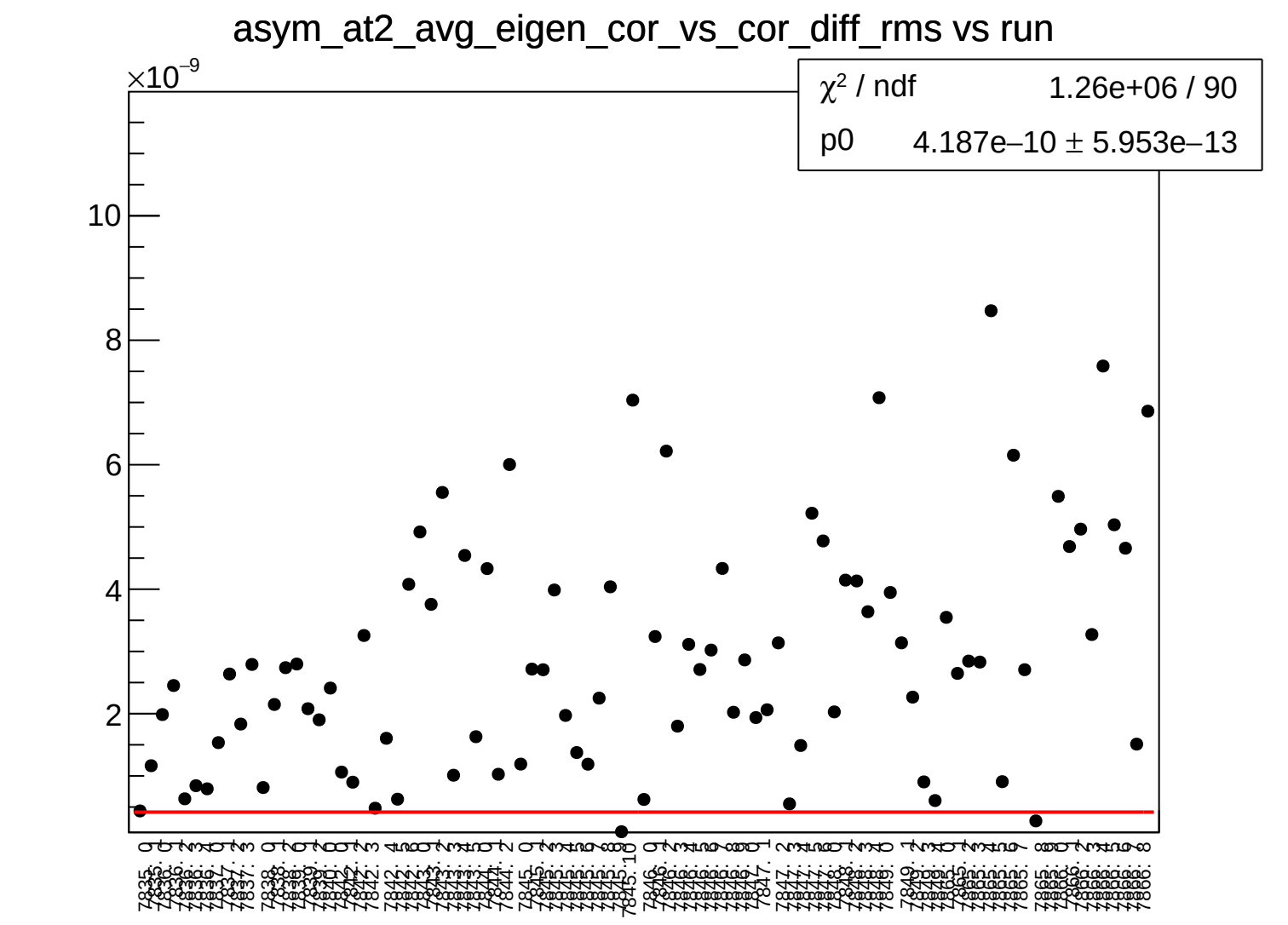

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.134e+04 / 90
p0 400.8 ± 0.3107
1100
1000
900
800
700
600
500
400
300
200

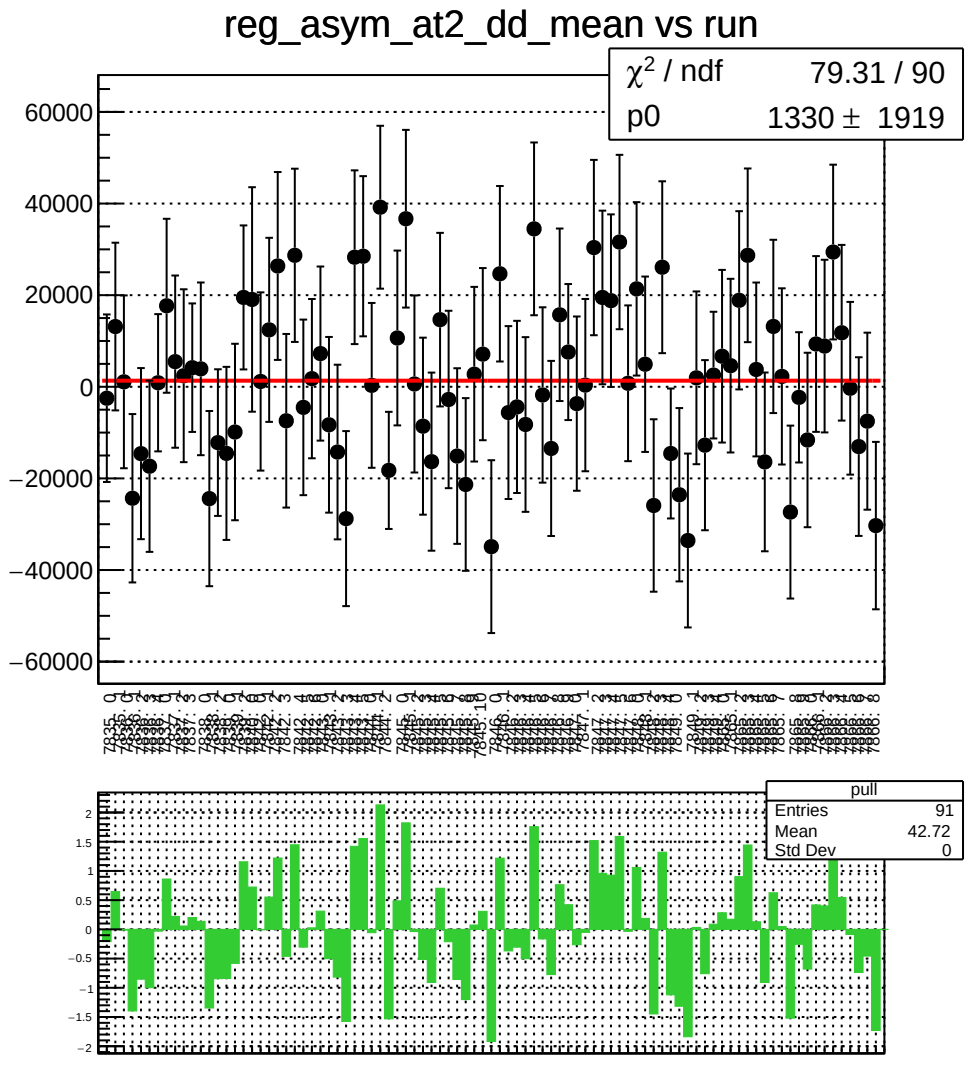

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.96 / 90
p0 −0.238 ± 0.4395
pull
Entries 91
Mean 468.6
Std Dev 0
pull1D
Entries 91
Mean −0.01135
Std Dev 0.9942

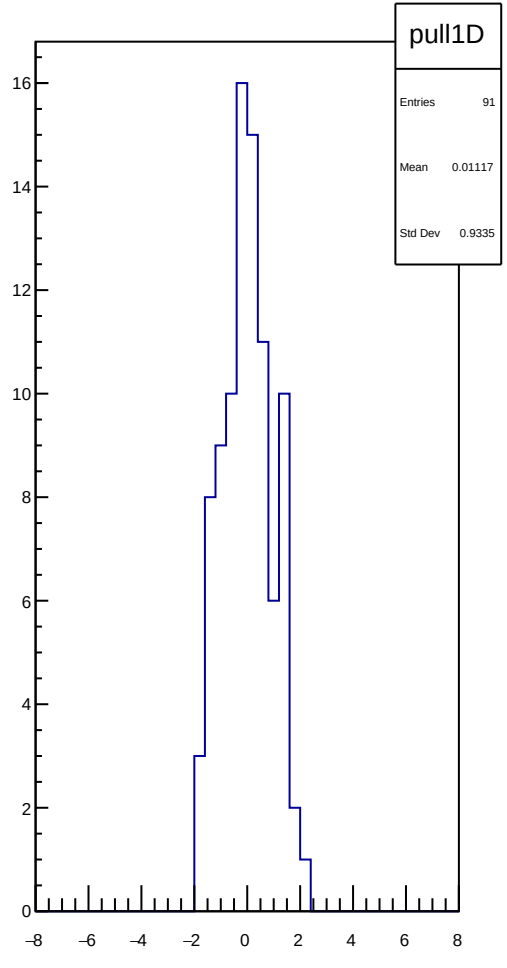

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.134e+04 / 90
p0 400.8 ± 0.3107
1100
1000
900
800
700
600
500
400
300
200

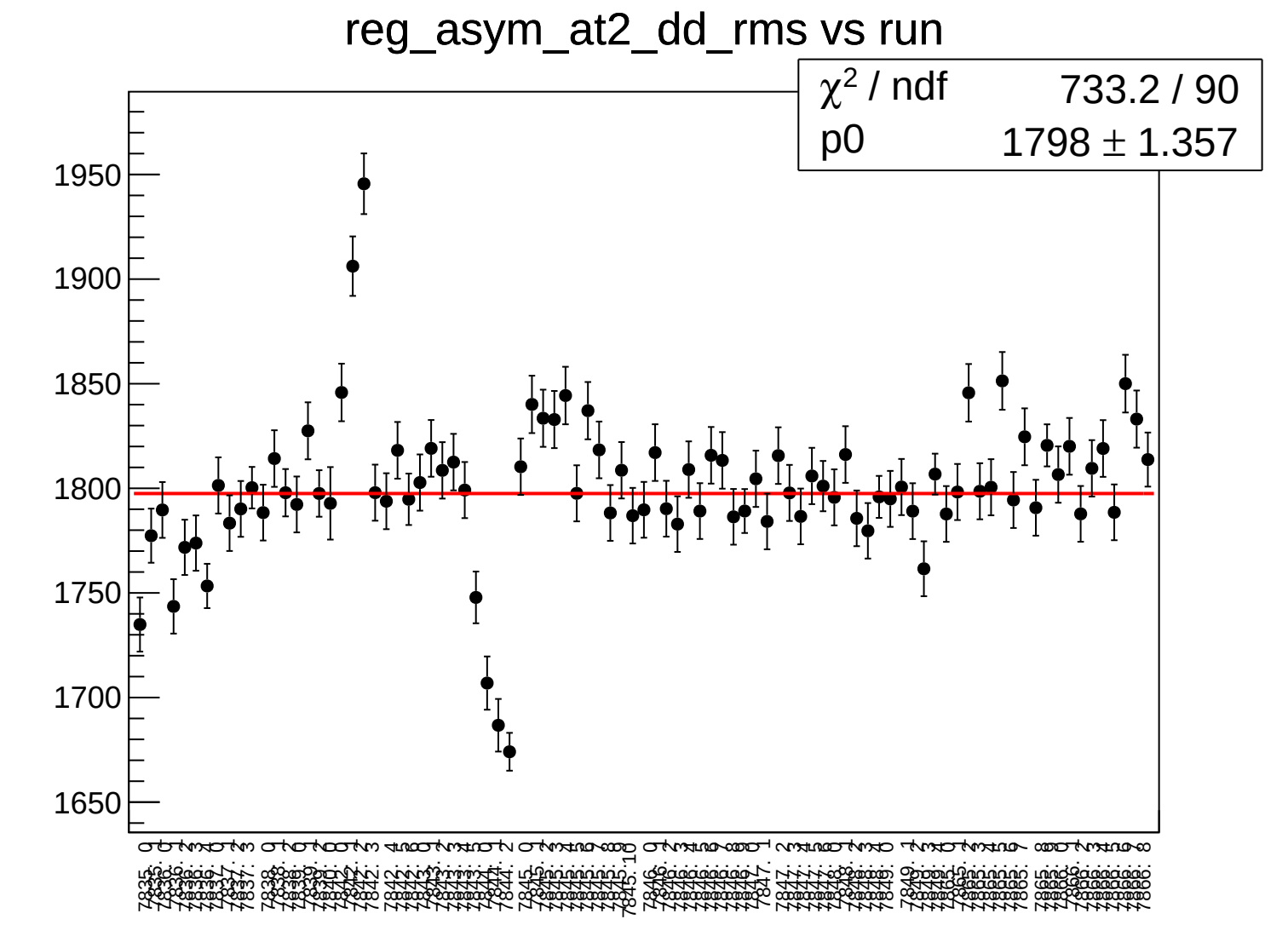

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 85.44 / 90
p0 −2.4e−13 ± 8.419e−13
pull
Entries 91
Mean −152.9
Std Dev 0

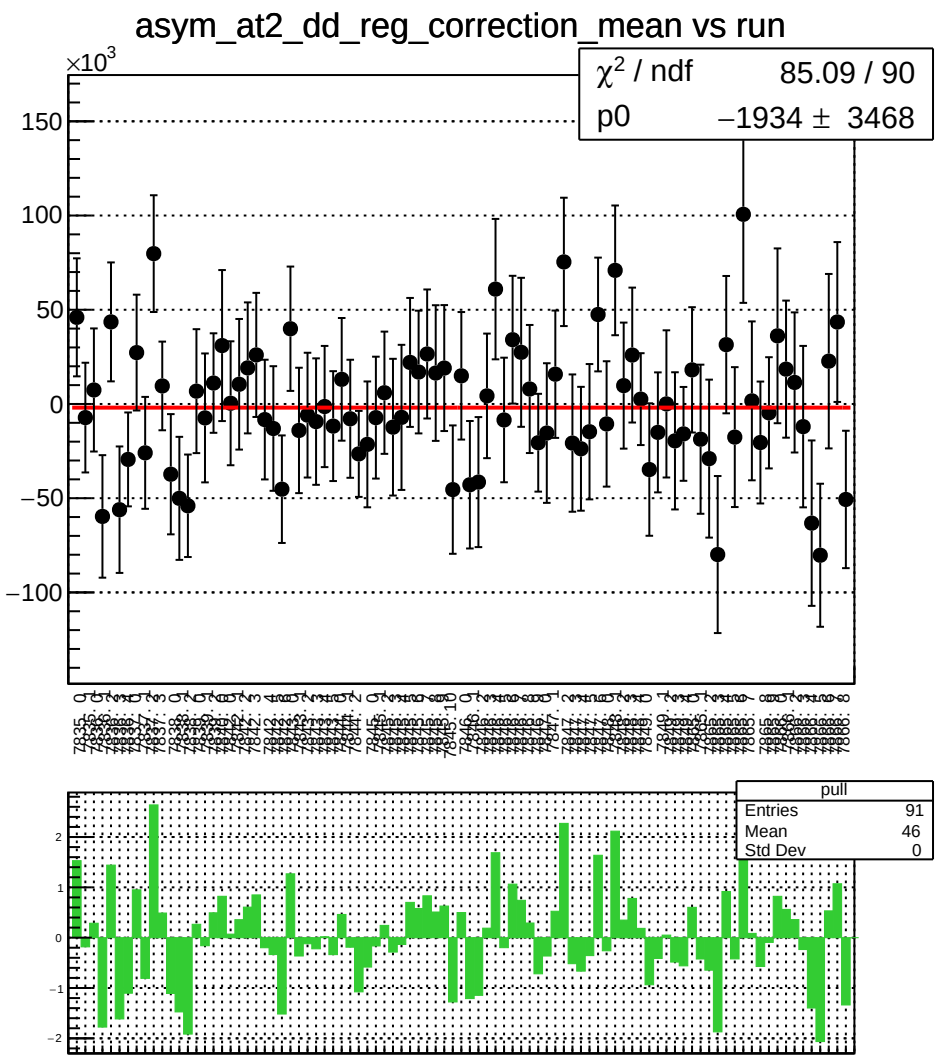

pull1D
Entries 91
Mean −0.01044
Std Dev 0.9689

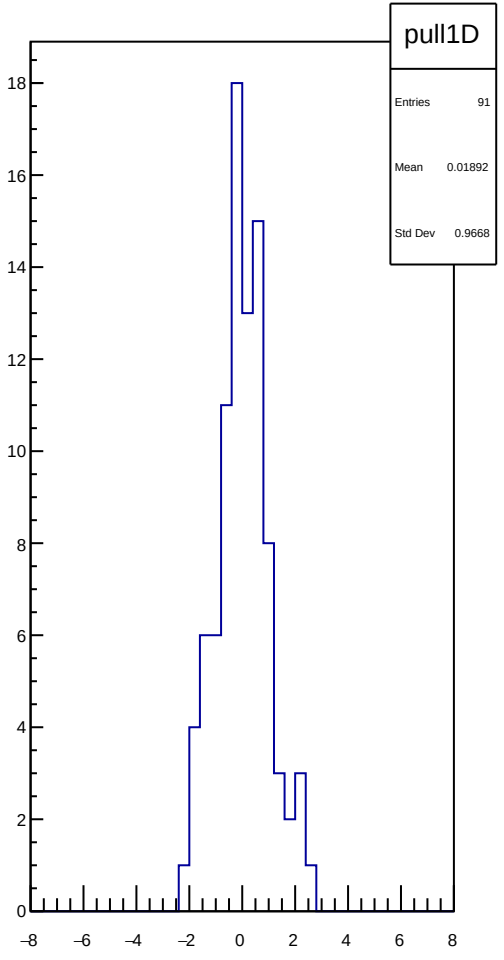

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.26e+06 / 90
p0 4.187e−10 ± 5.953e−13
10
8
6
4
2

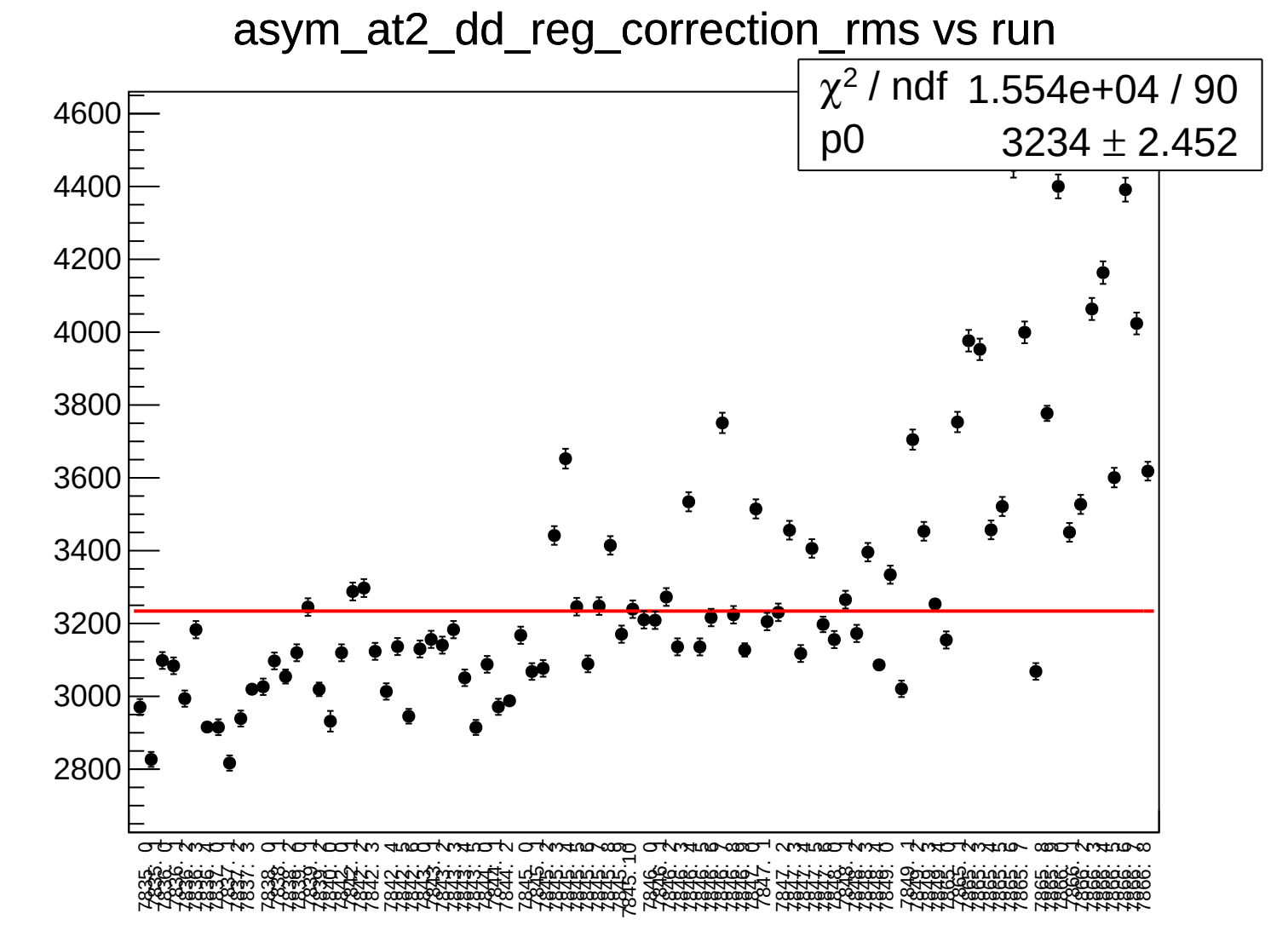

reg_asym_at2_dd_mean vs run
χ^2 / ndf 79.31 / 90
p0 1330 ± 1919
pull
Entries 91
Mean 42.72
Std Dev 0

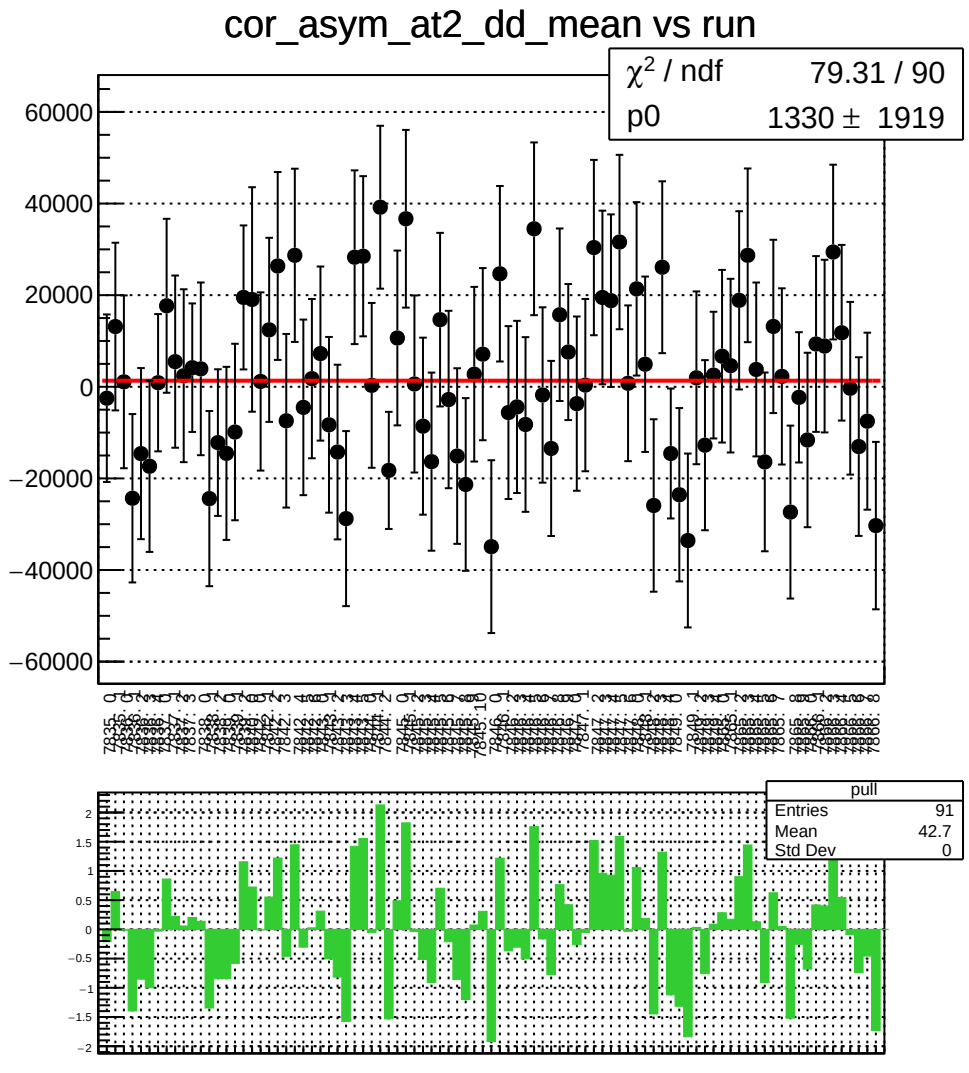

pull1D
Entries 91
Mean 0.01117
Std Dev 0.9335

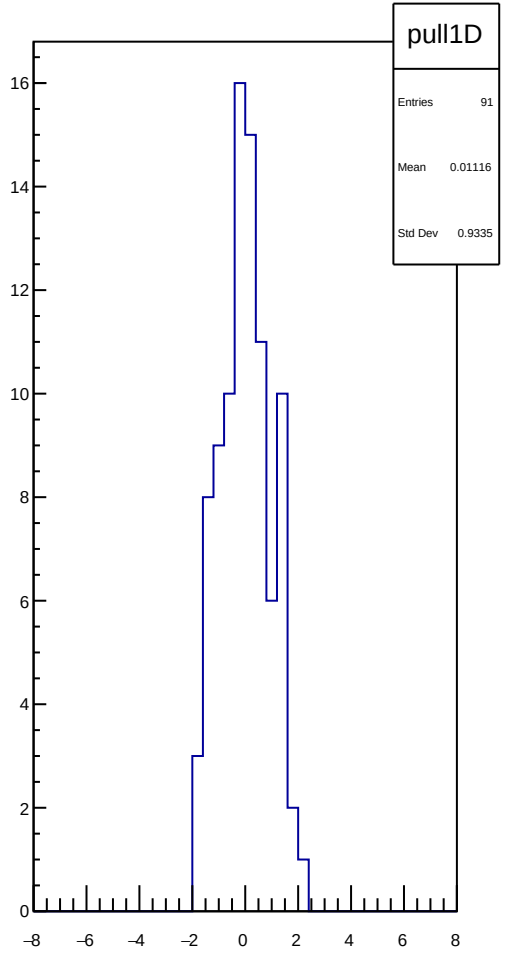

reg_asym_at2_dd_rms vs run
χ^2 / ndf 733.2 / 90
p0 1798 ± 1.357
1950
1900
1850
1800
1750
1700
1650

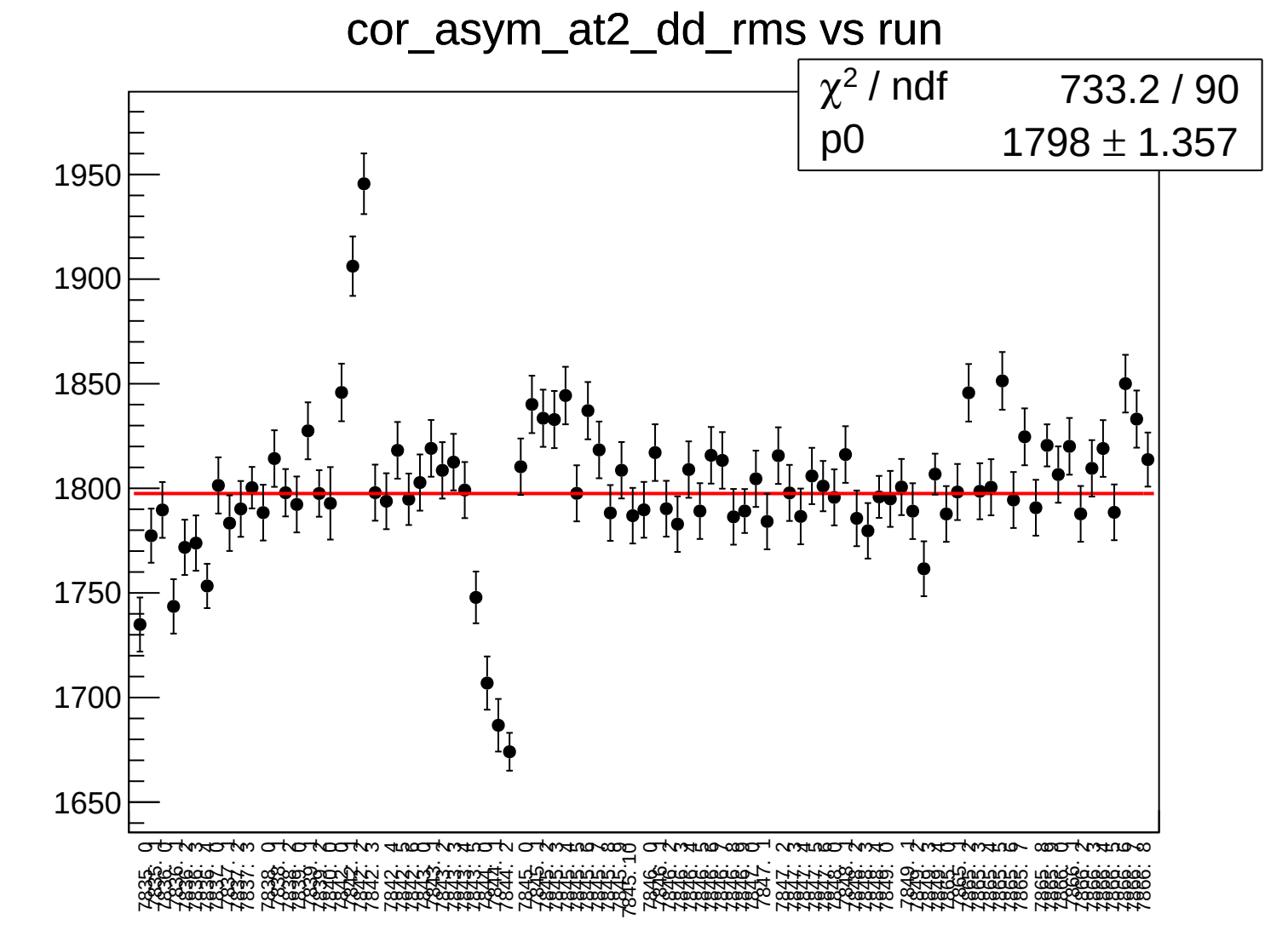

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.09 / 90
p0 −1934 ± 3468
150
100
50
0
−50
−100
pull
Entries 91
Mean 46
Std Dev 0
2
1
0
−1
−2

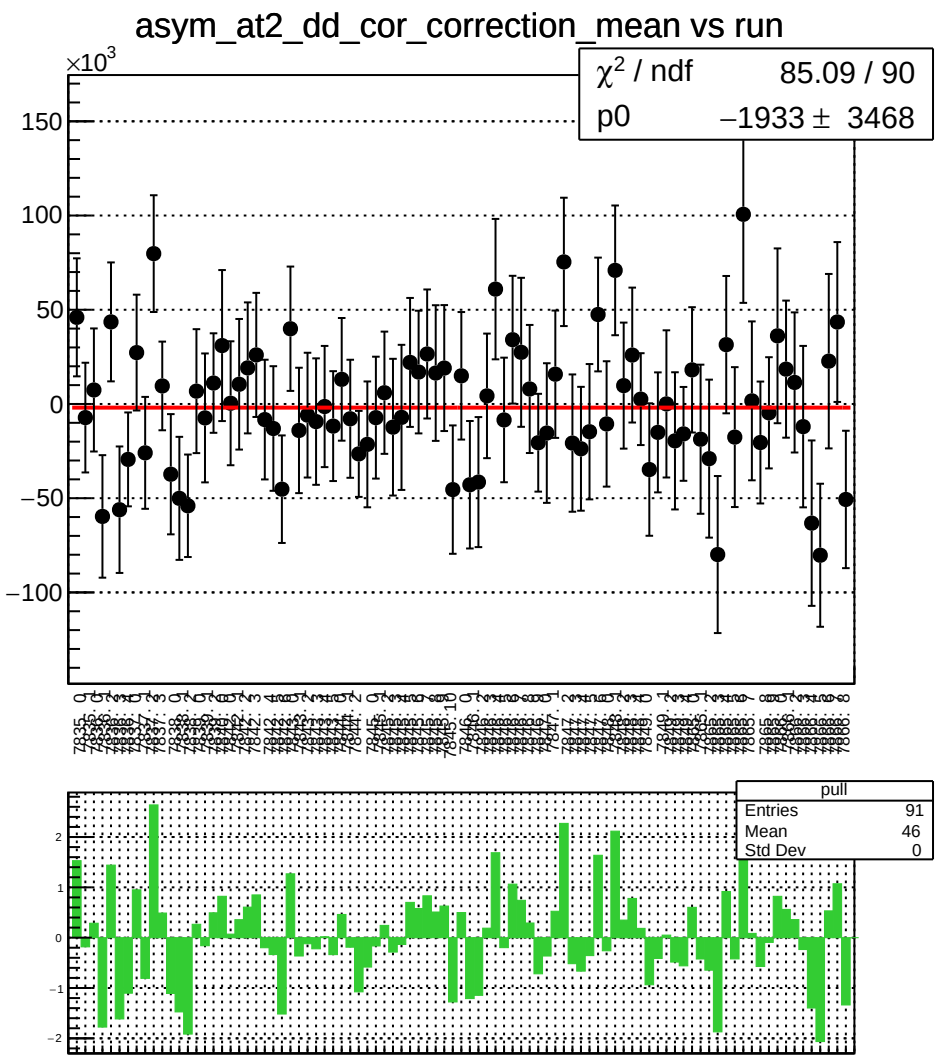

pull1D
Entries 91
Mean 0.01892
Std Dev 0.9668
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

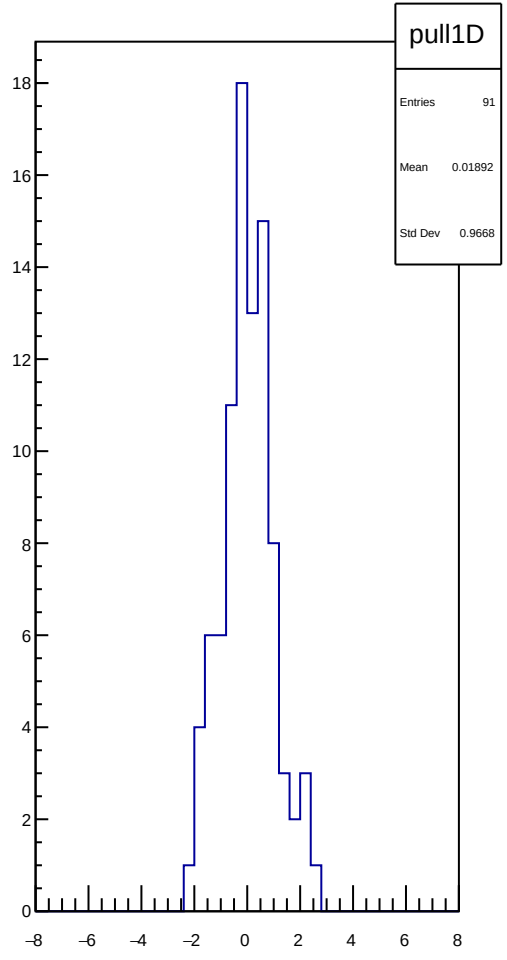

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 3234 ± 2.452
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

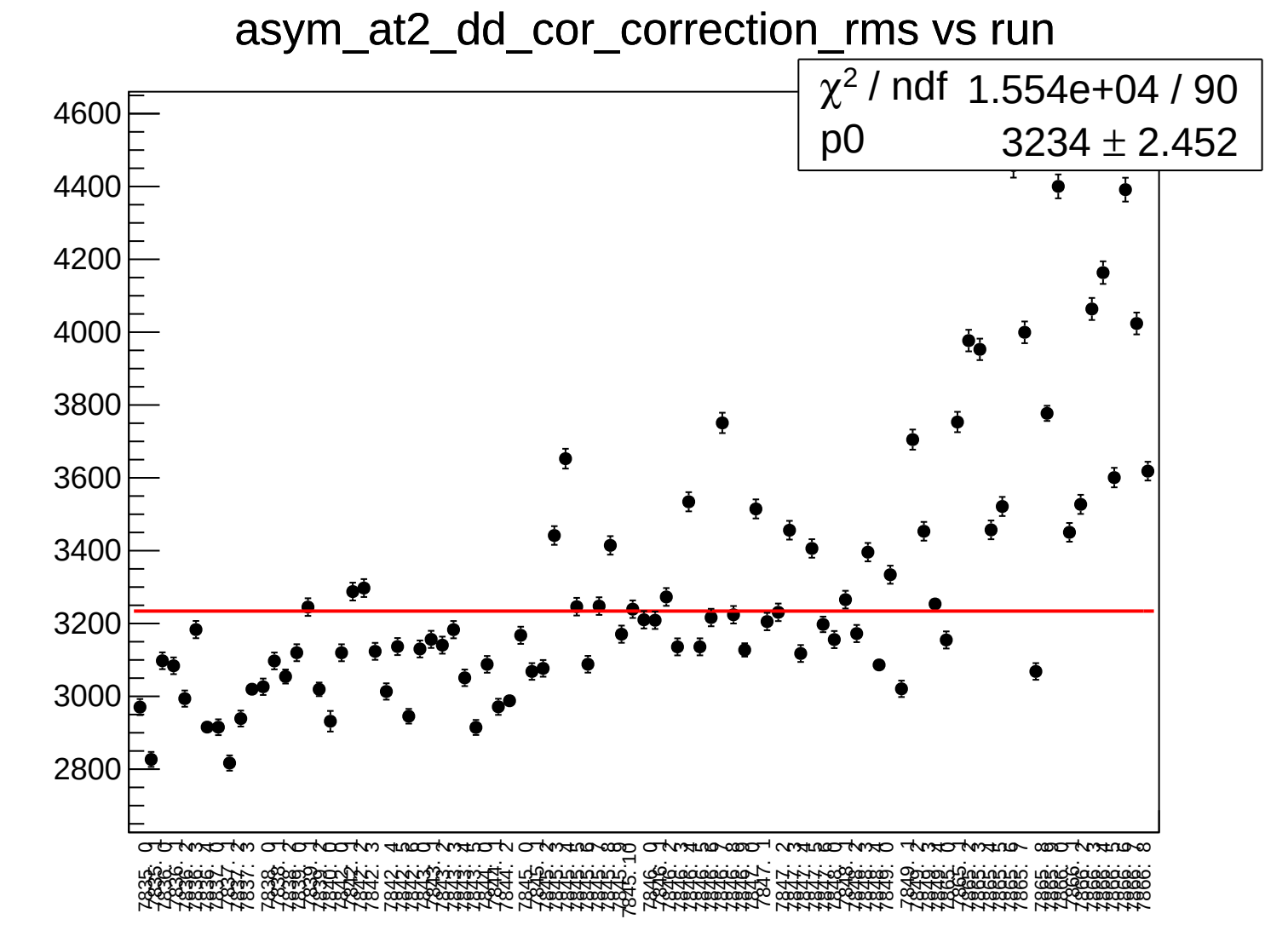

cor_asym_at2_dd_mean vs run
χ² / ndf 79.31 / 90
p0 1330 ± 1919
pull
Entries 91
Mean 42.7
Std Dev 0

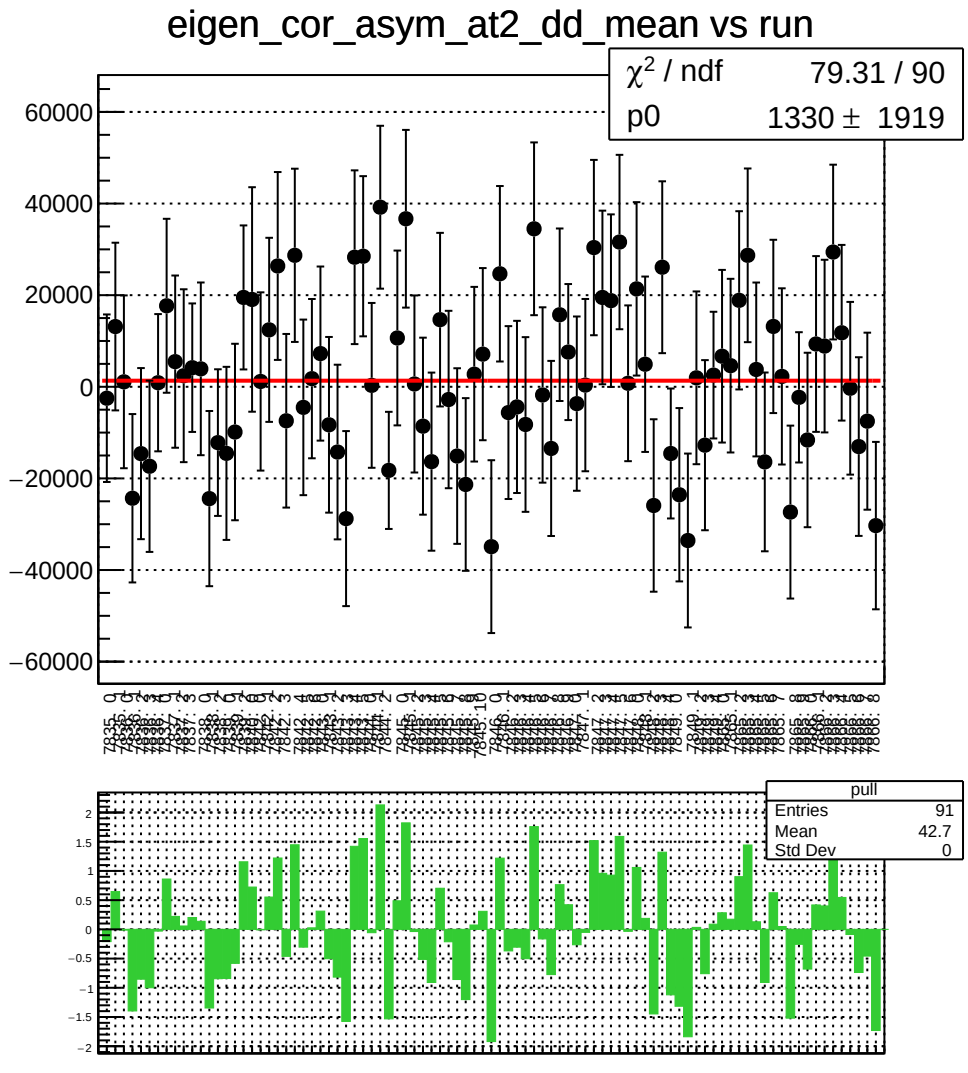

pull1D
Entries 91
Mean 0.01116
Std Dev 0.9335

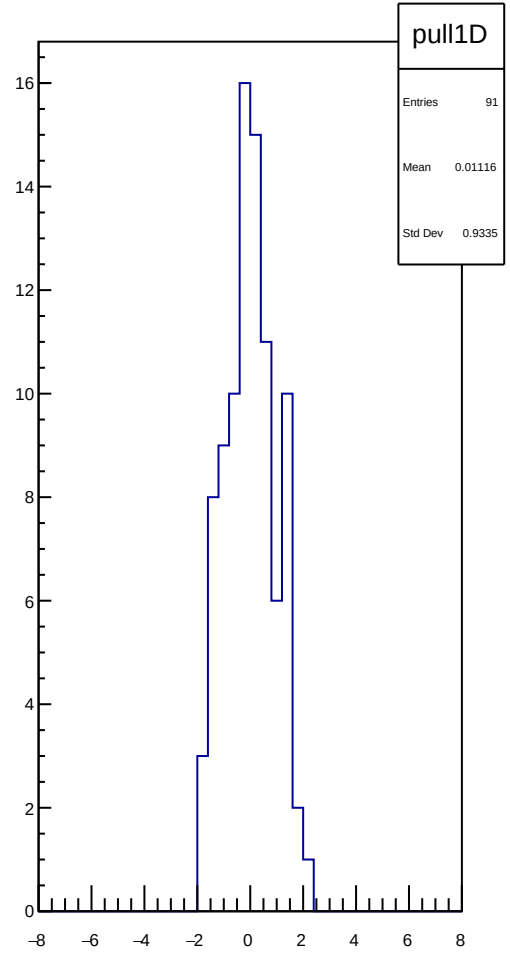

cor_asym_at2_dd_rms vs run
χ² / ndf 733.2 / 90
p0 1798 ± 1.357
1950
1900
1850
1800
1750
1700
1650

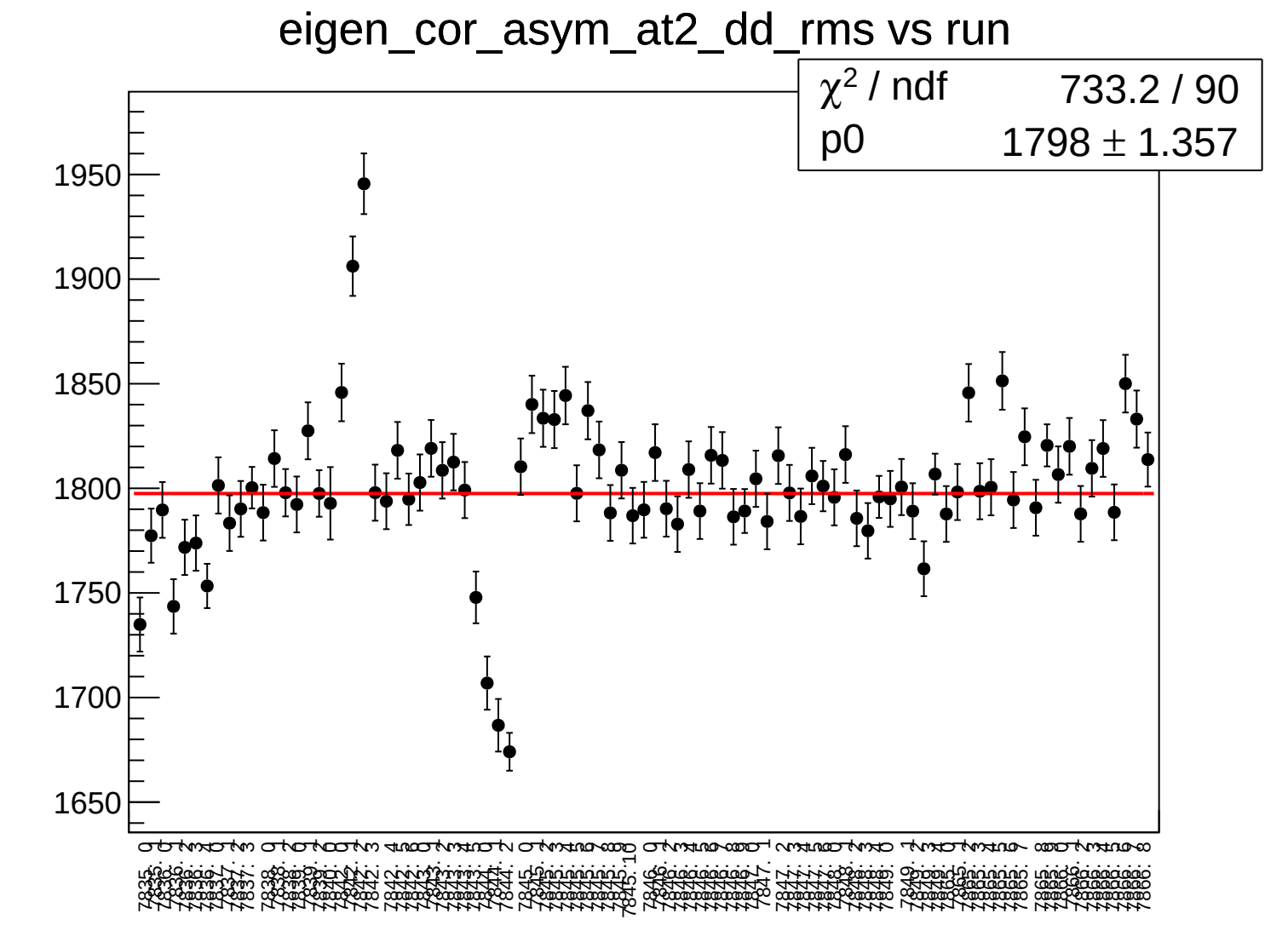

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.09 / 90
p0 −1933 ± 3468
150
100
50
0
−50
−100
pull
Entries 91
Mean 46
Std Dev 0
2
1
0
−1
−2

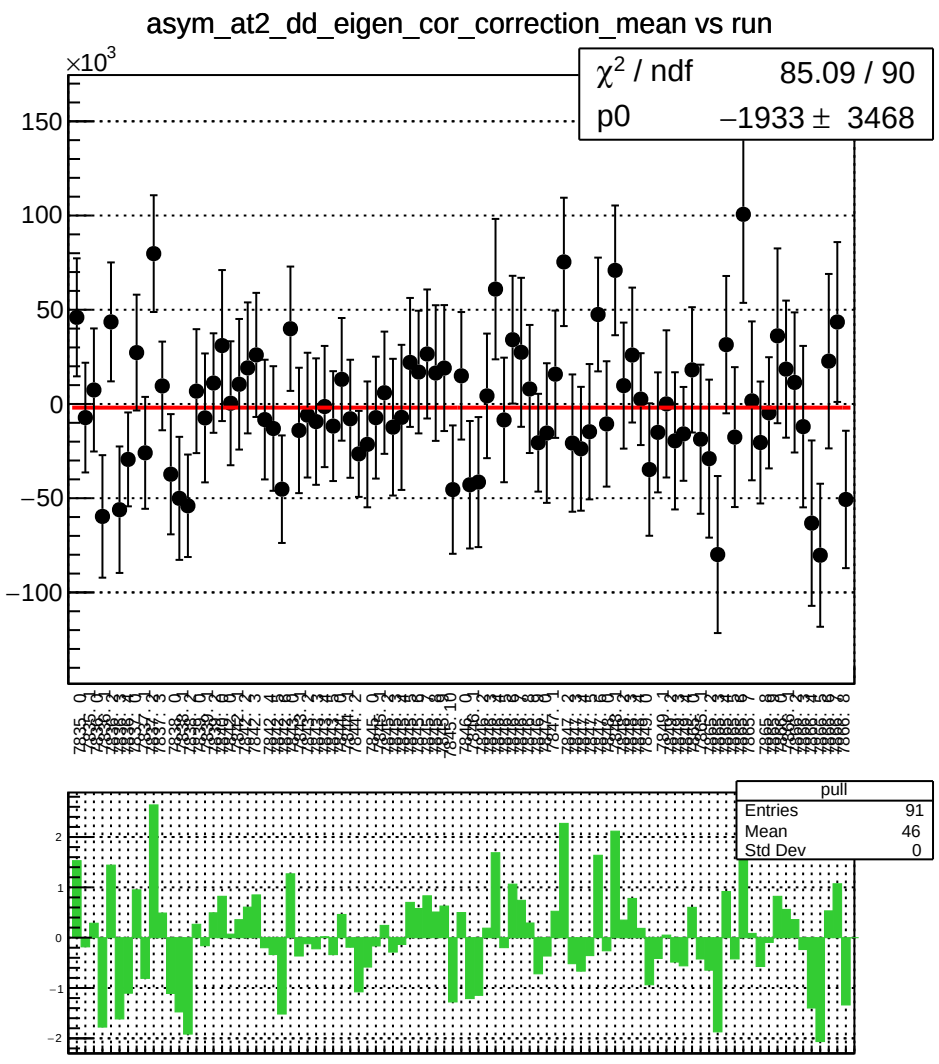

pull1D
Entries 91
Mean 0.01892
Std Dev 0.9668
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

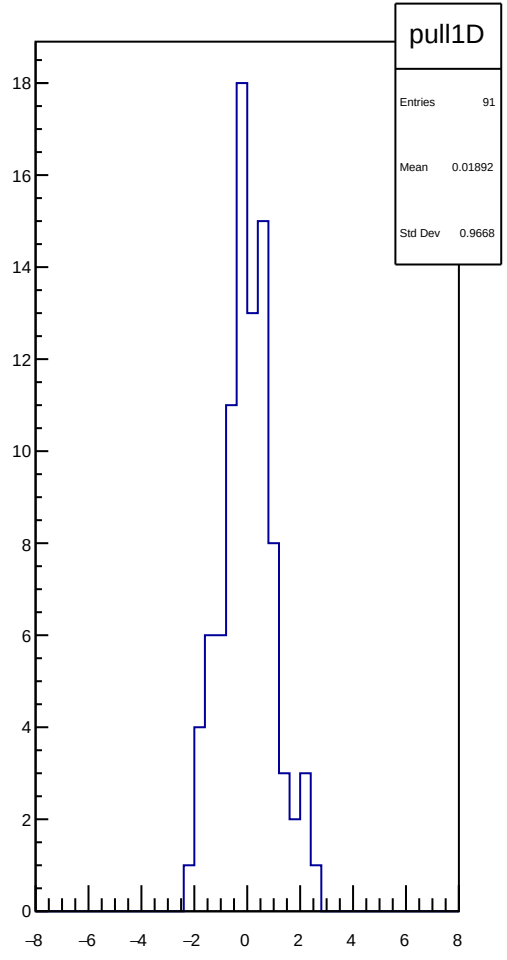

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 3234 ± 2.452
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

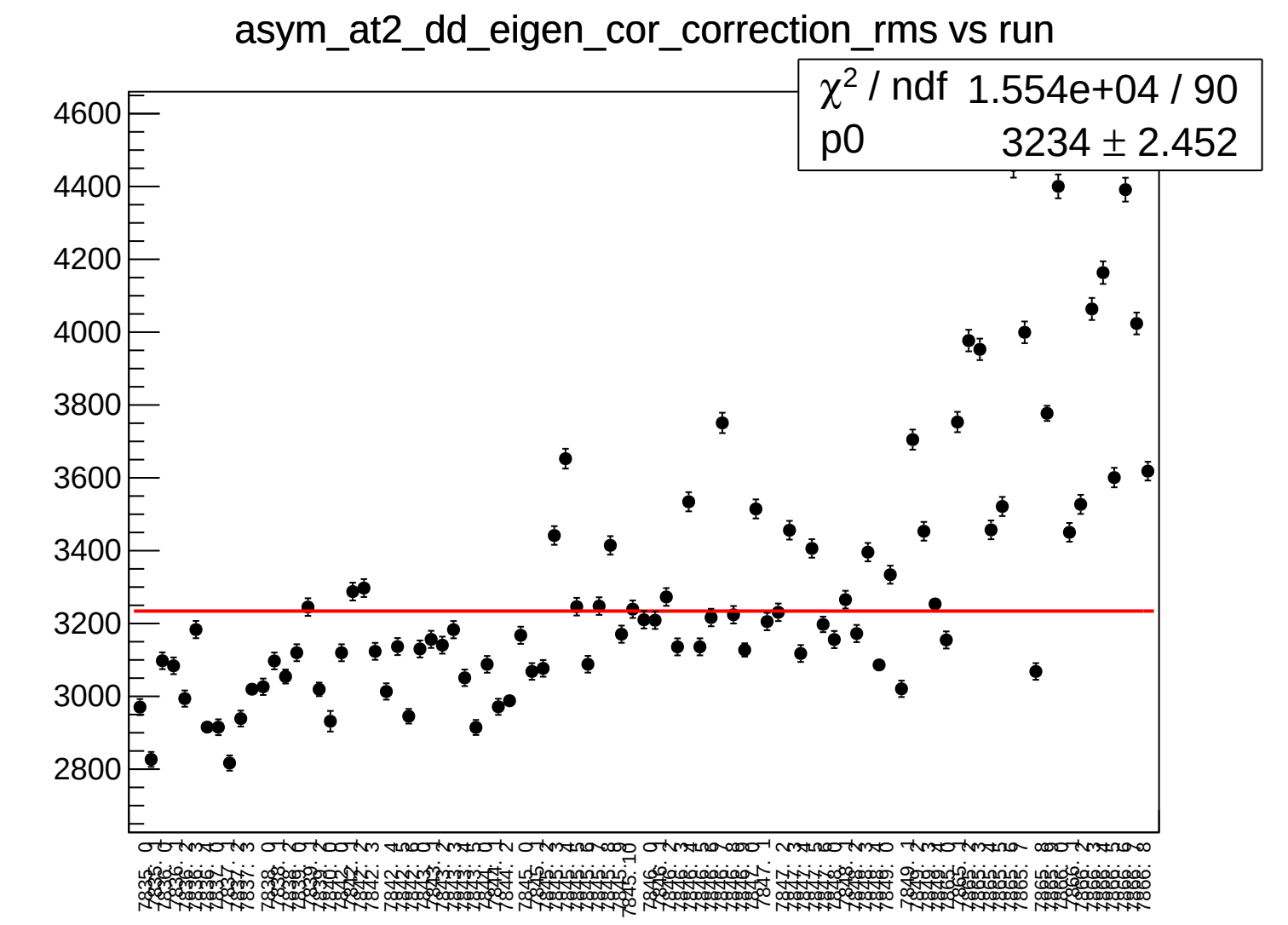

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 79.31 / 90
p0 1330 ± 1919
pull
Entries 91
Mean 42.7
Std Dev 0

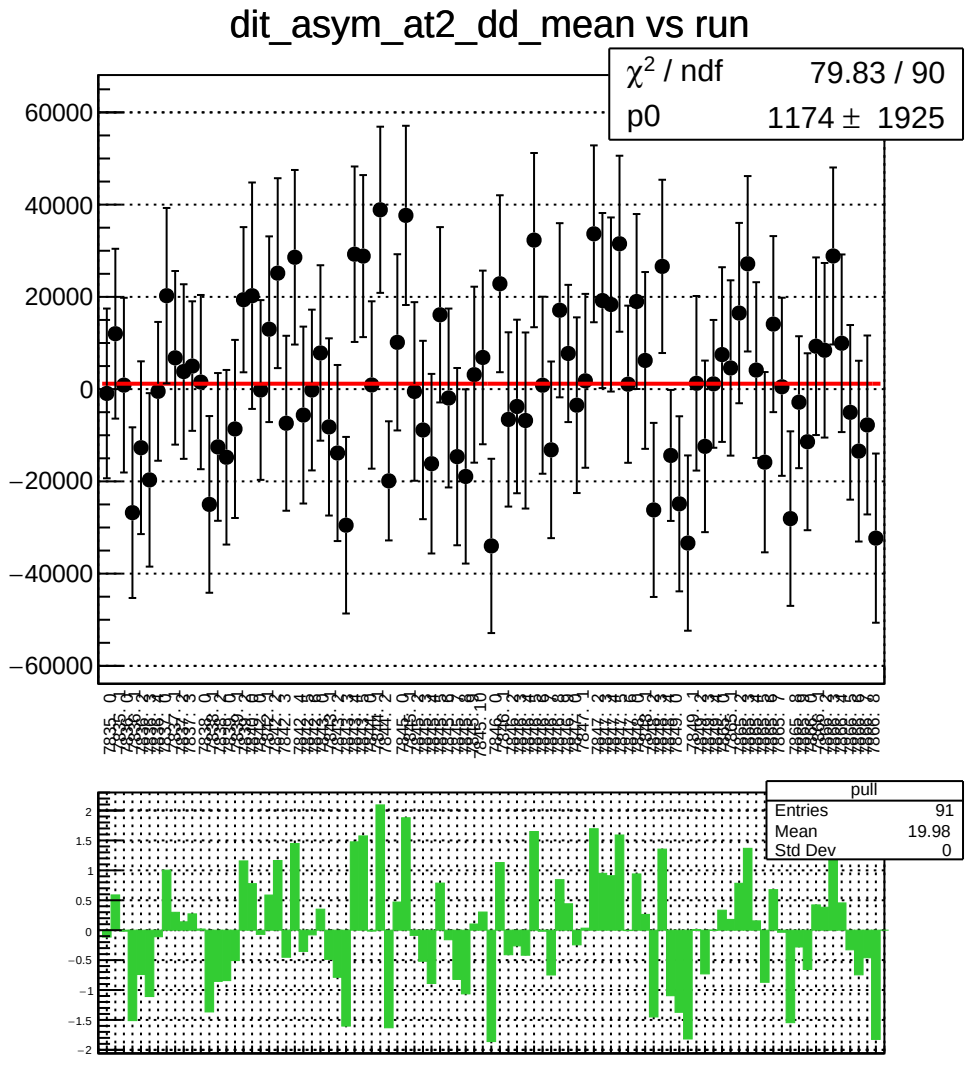

pull1D
Entries 91
Mean 0.01116
Std Dev 0.9335

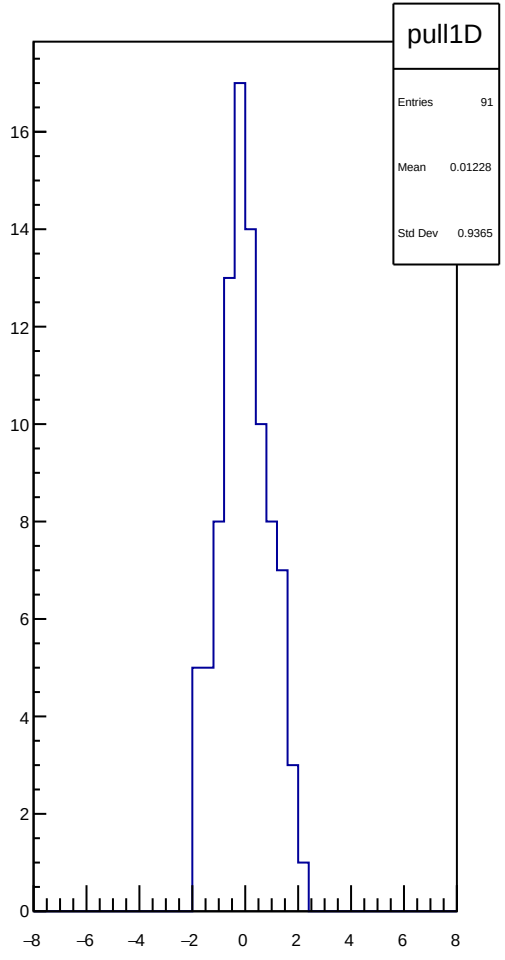

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 733.2 / 90
p0 1798 ± 1.357
1950
1900
1850
1800
1750
1700
1650

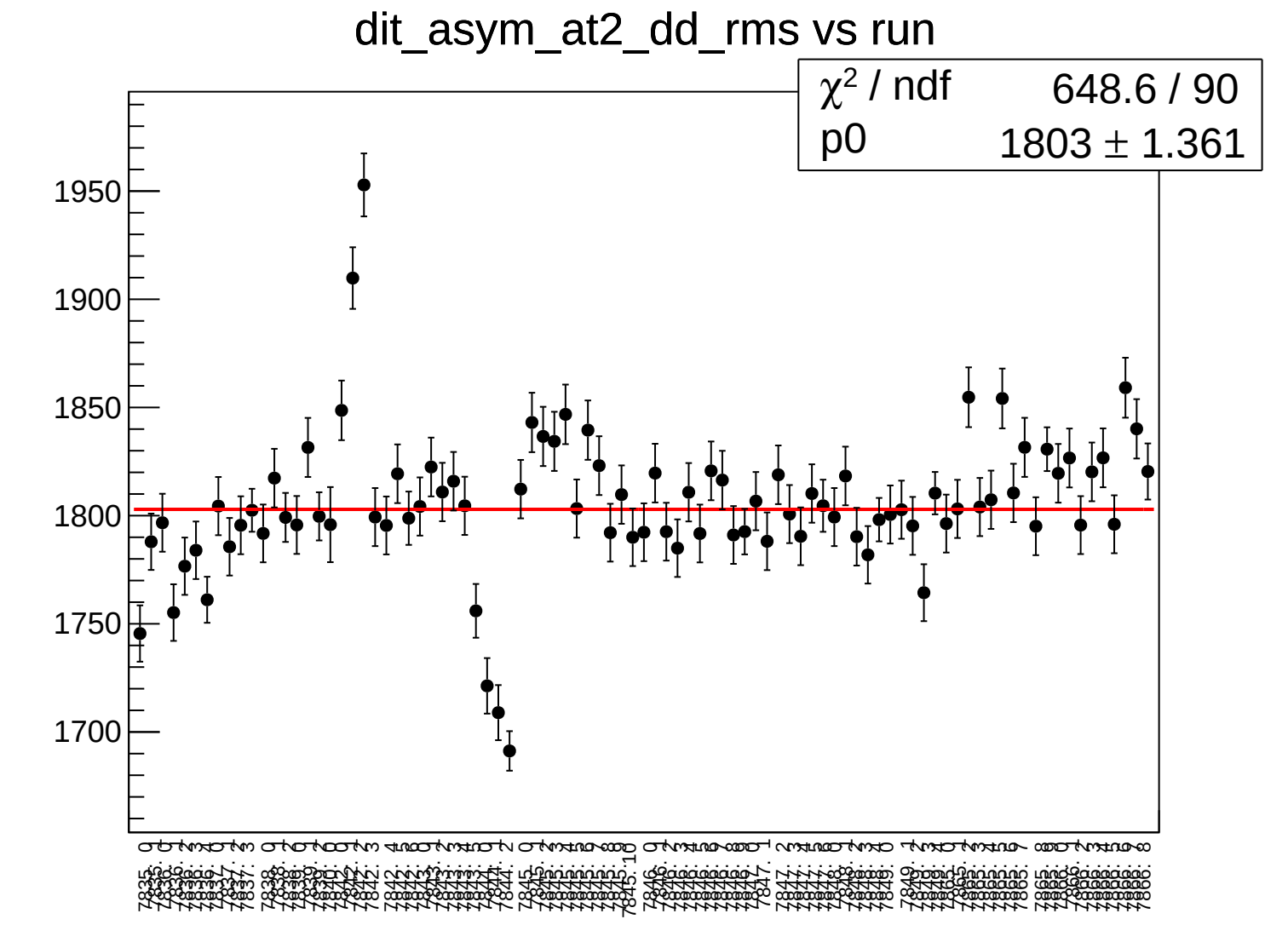

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.09 / 90
p0 −1933 ± 3468
150
100
50
0
−50
−100
pull
Entries 91
Mean 46
Std Dev 0
2
1
0
−1
−2

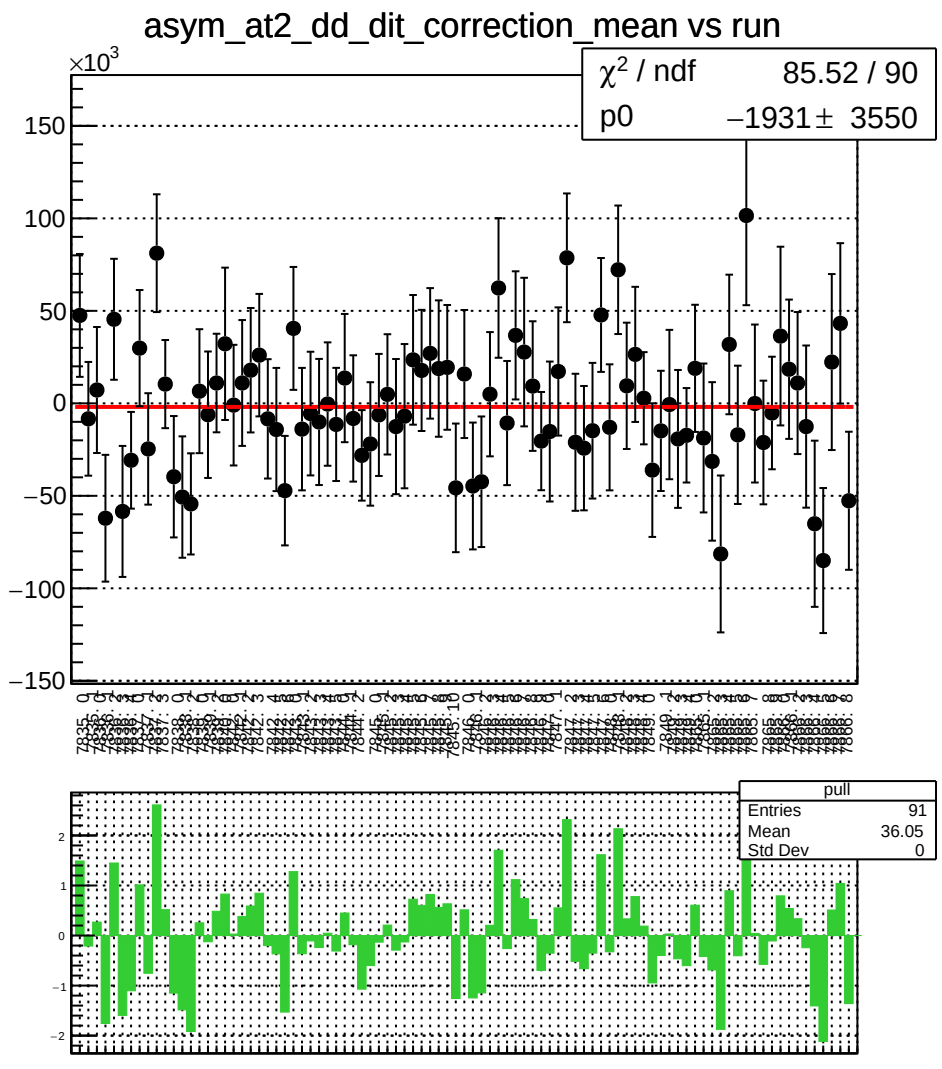

pull1D
Entries 91
Mean 0.01892
Std Dev 0.9668
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

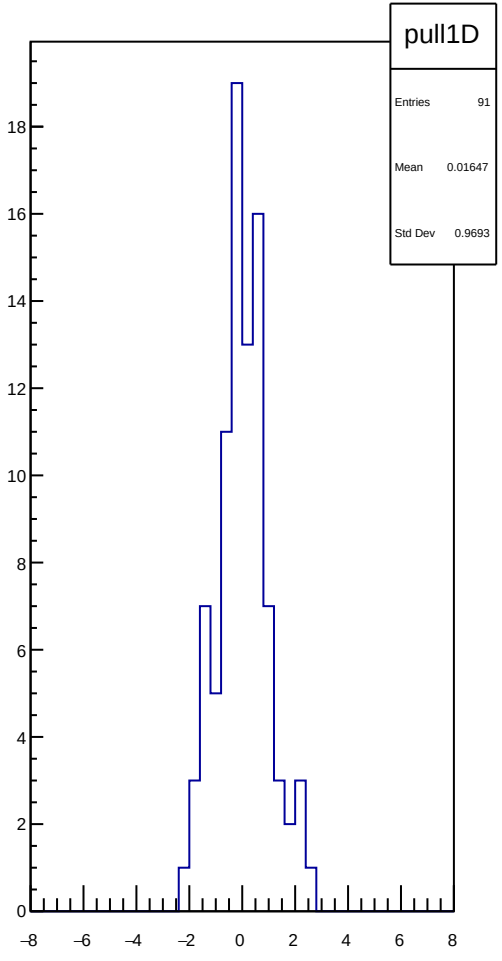

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 3234 ± 2.452
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

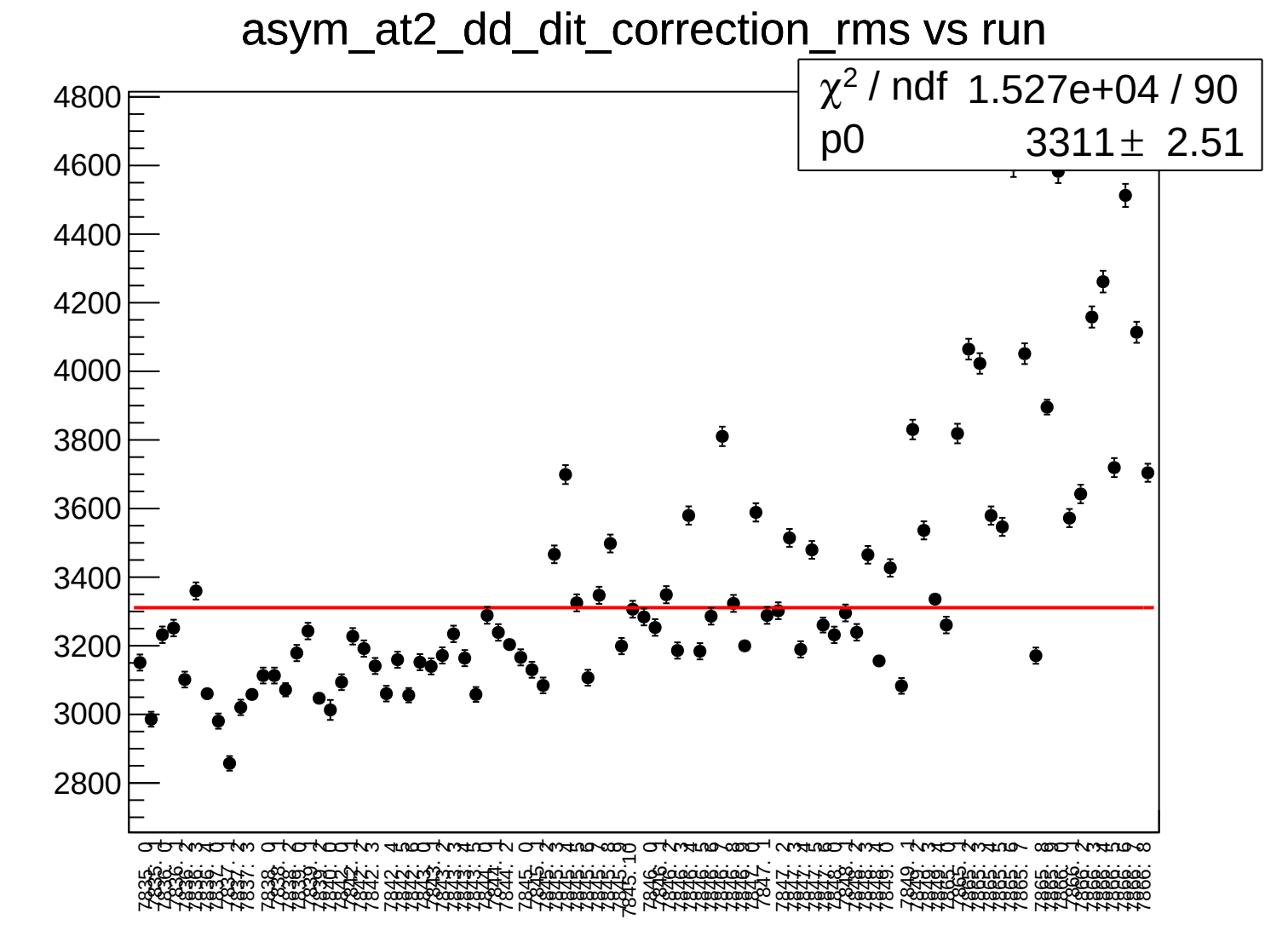

dit_asym_at2_dd_mean vs run
χ² / ndf 79.83 / 90
p0 1174 ± 1925
pull
Entries 91
Mean 19.98
Std Dev 0

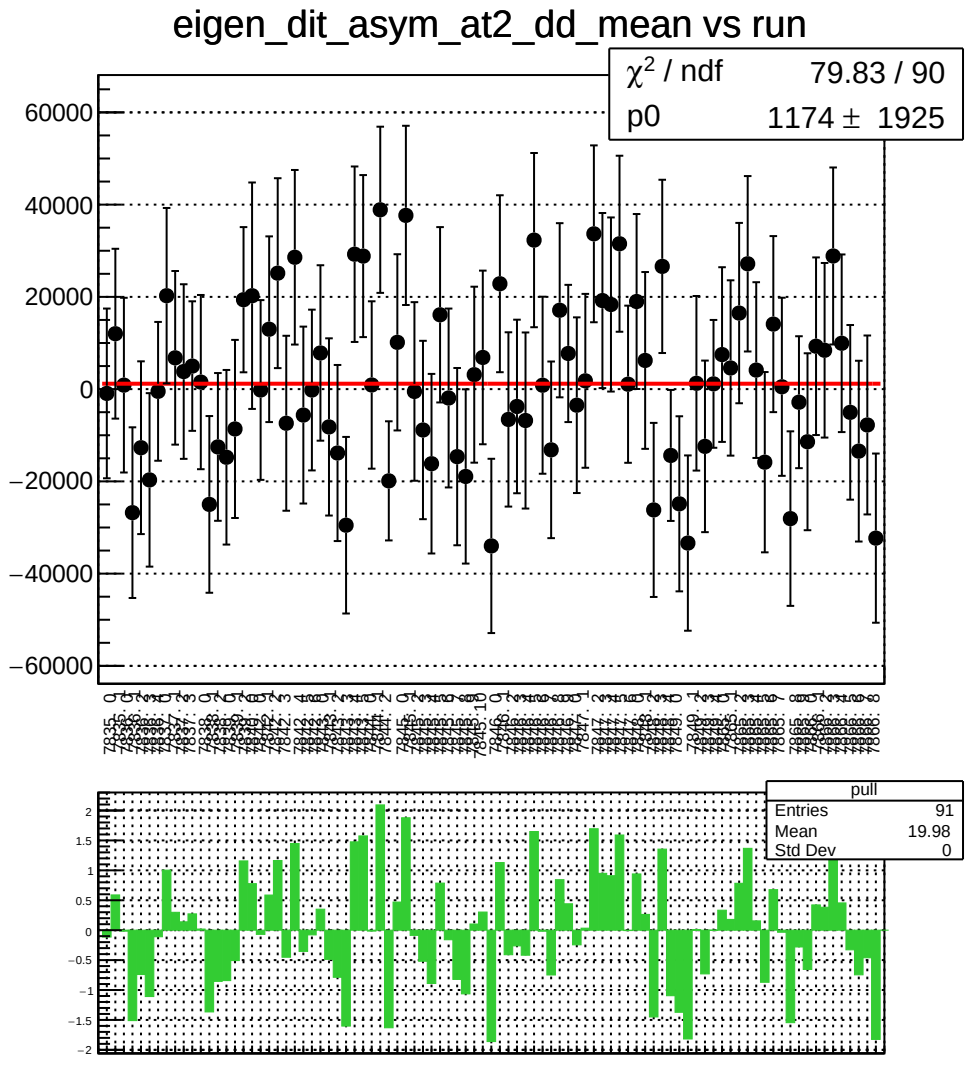

pull1D
Entries 91
Mean 0.01228
Std Dev 0.9365

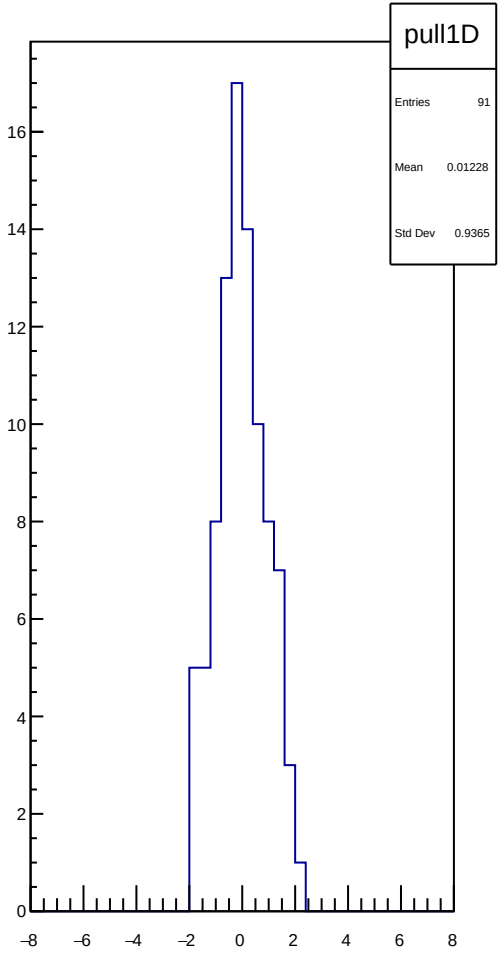

dit_asym_at2_dd_rms vs run
χ² / ndf 648.6 / 90
p0 1803 ± 1.361
1950
1900
1850
1800
1750
1700

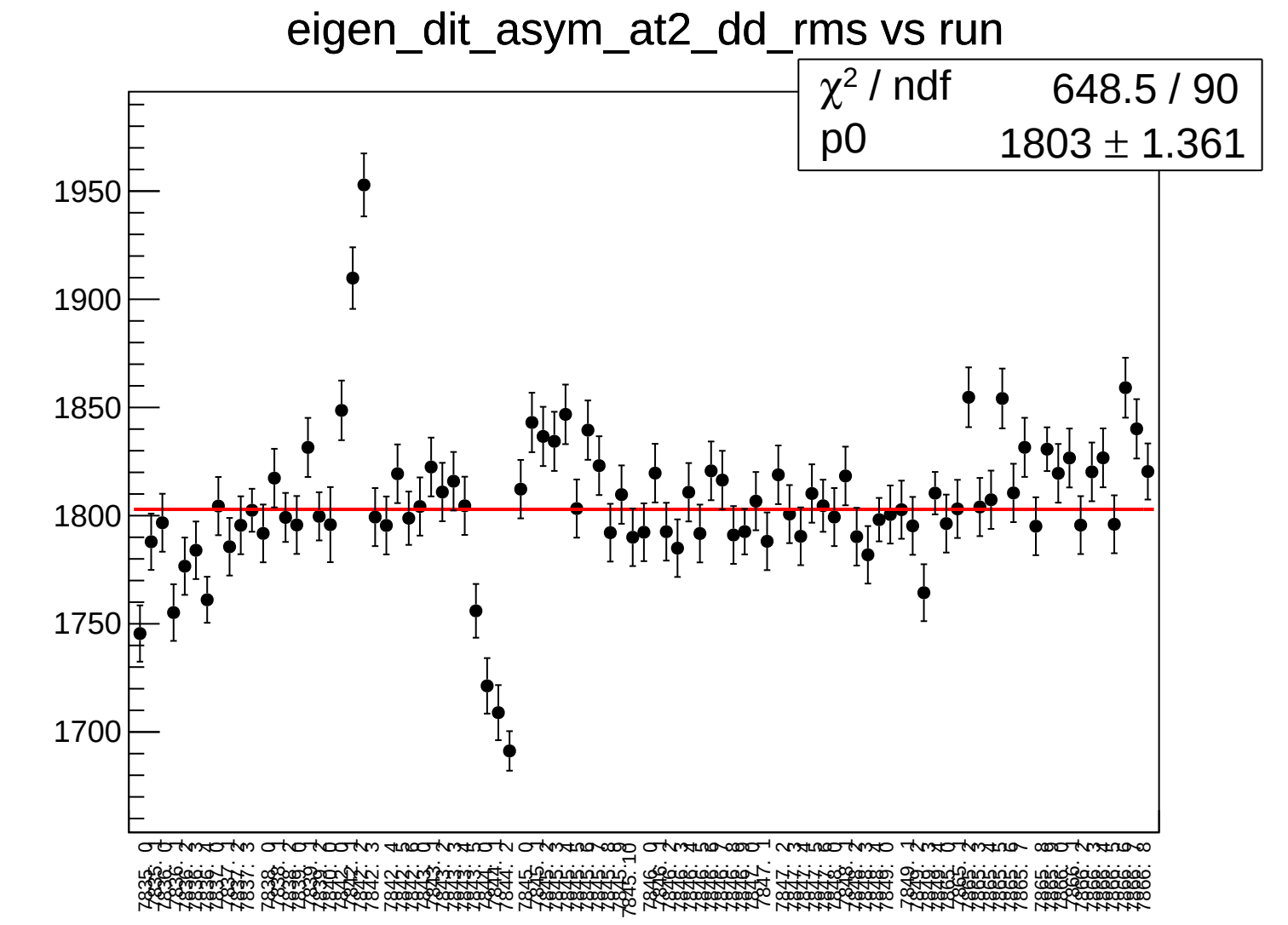

asym_at2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.52 / 90
p0 −1931 ± 3550
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 36.05
Std Dev 0
2
1
0
−1
−2

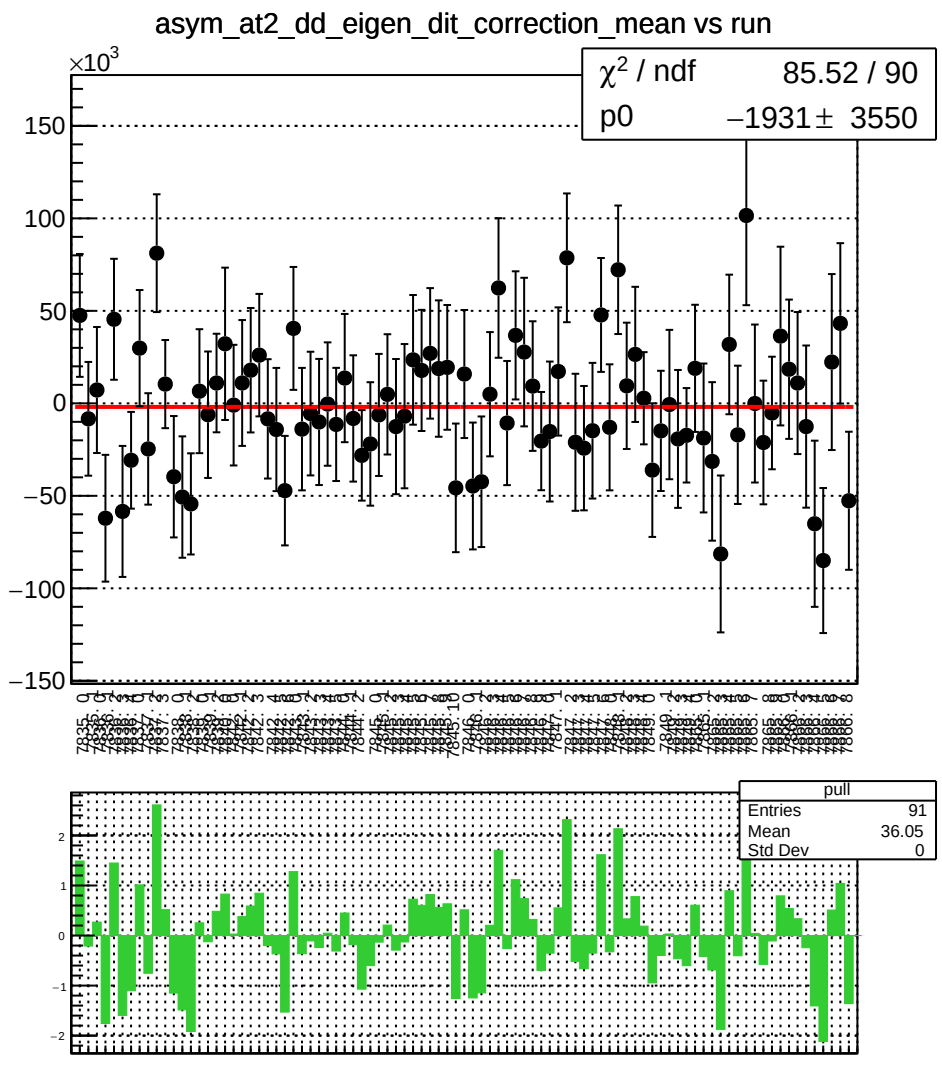

pull1D
Entries 91
Mean 0.01647
Std Dev 0.9693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

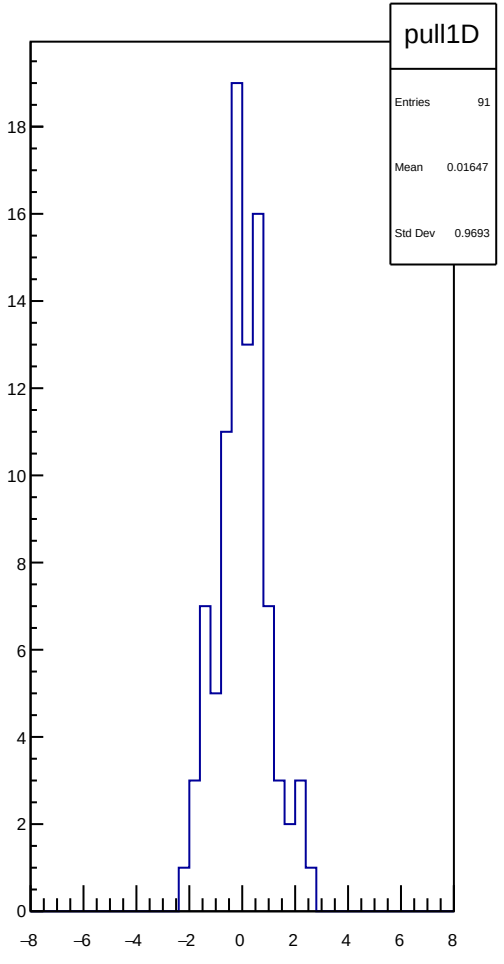

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.527e+04 / 90
p0 3311 ± 2.51
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

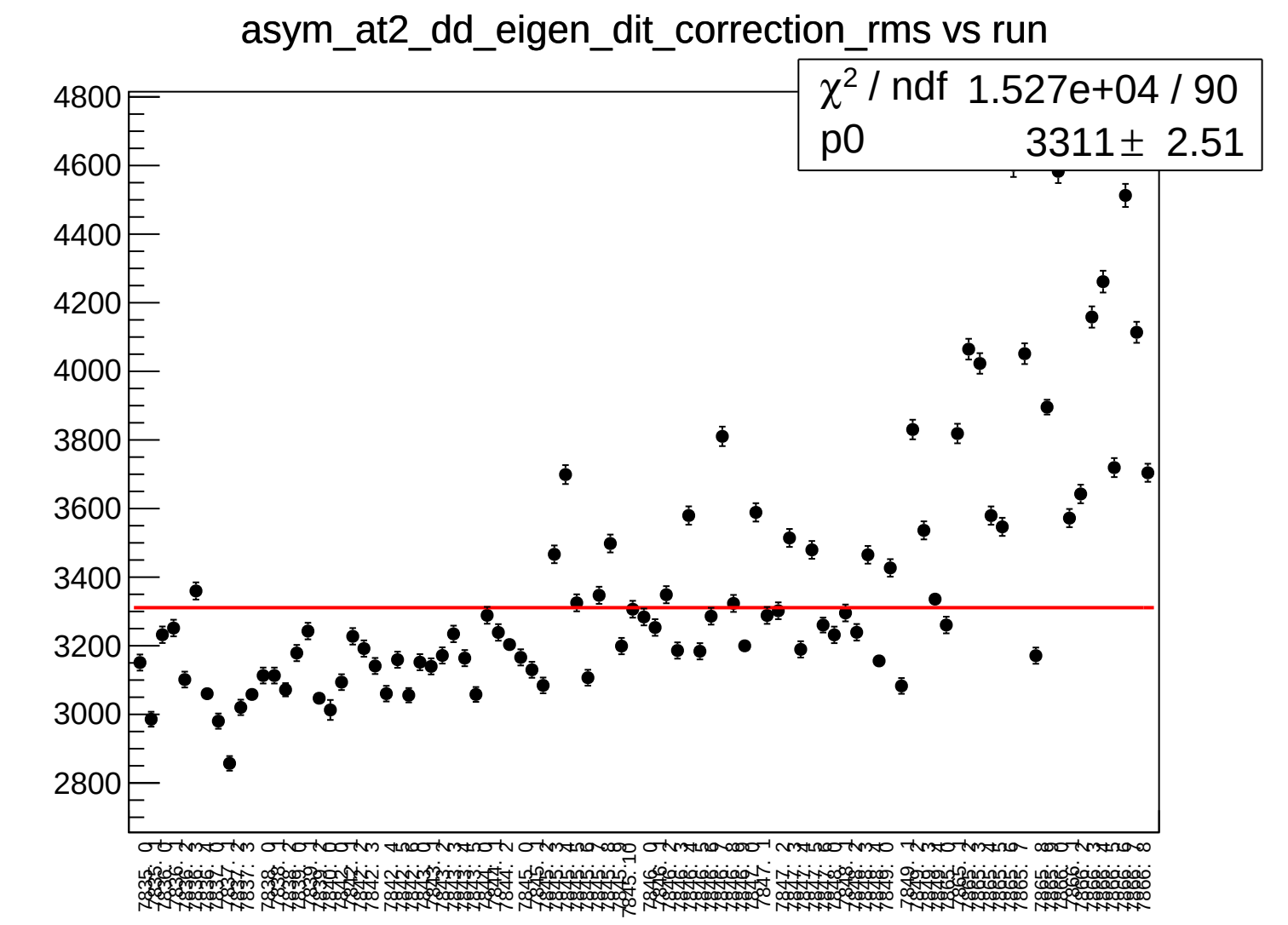

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 79.83 / 90
p0 1174 ± 1925
pull
Entries 91
Mean 19.98
Std Dev 0

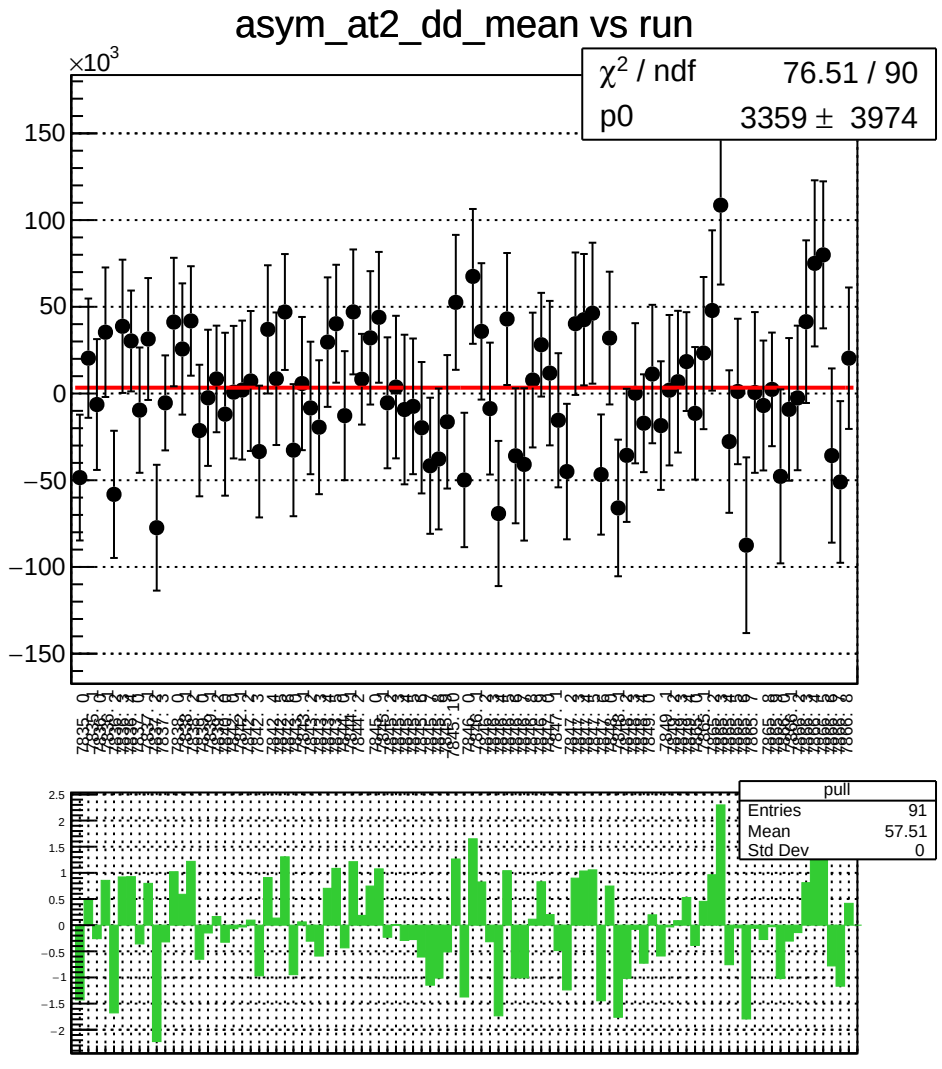

pull1D
Entries 91
Mean 0.01228
Std Dev 0.9365

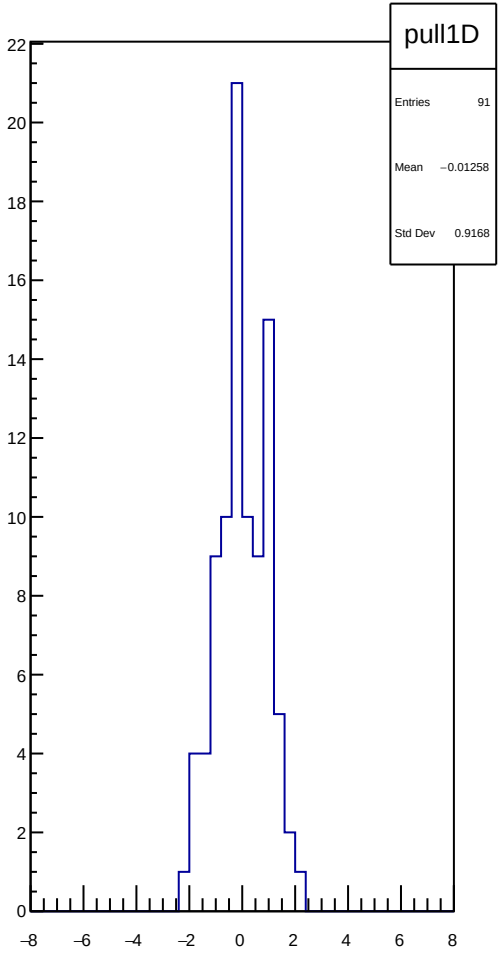

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 648.5 / 90
p0 1803 ± 1.361
1950
1900
1850
1800
1750
1700

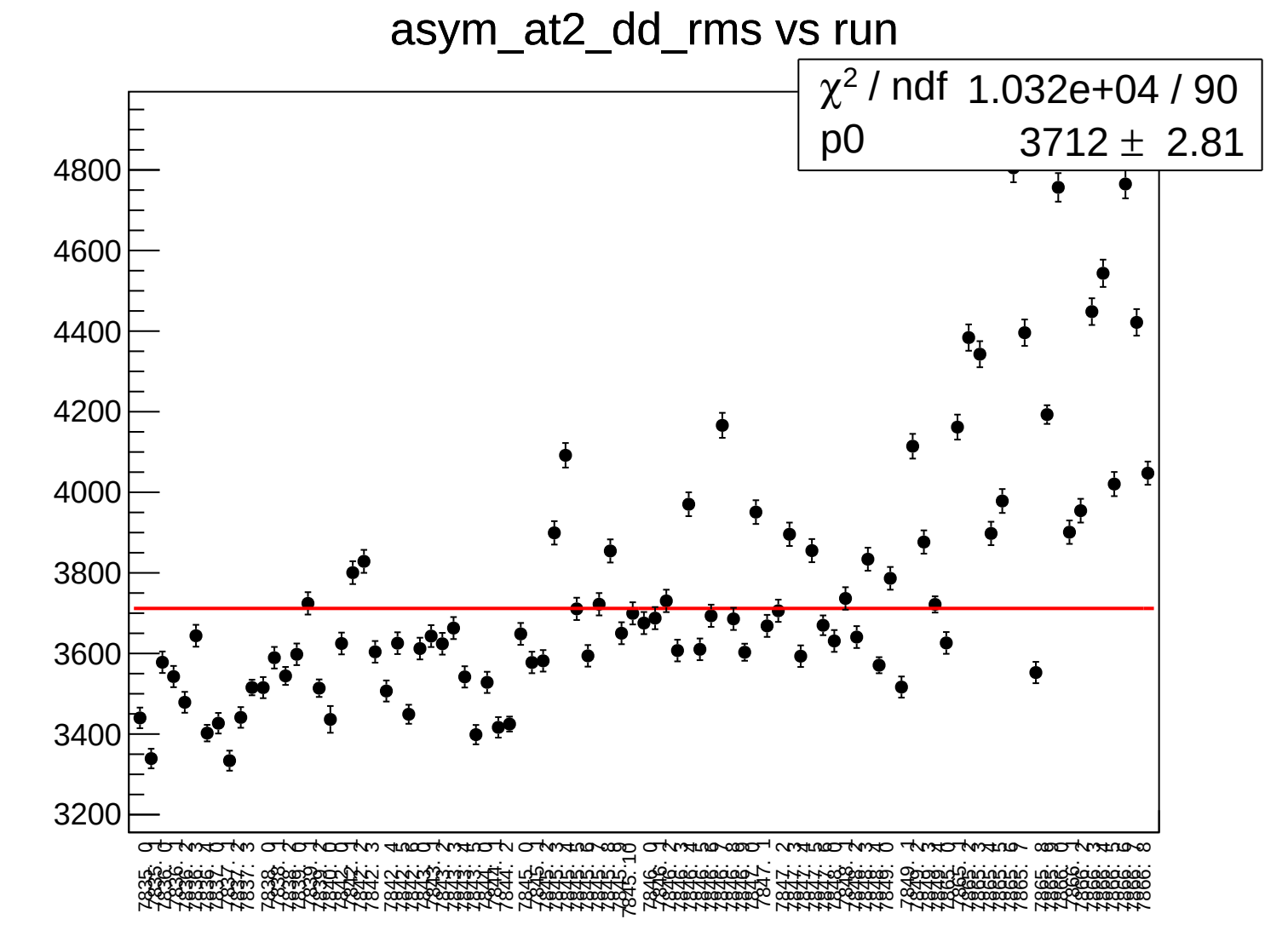

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.52 / 90
p0 −1931 ± 3550
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 36.05
Std Dev 0
2
1
0
−1
−2

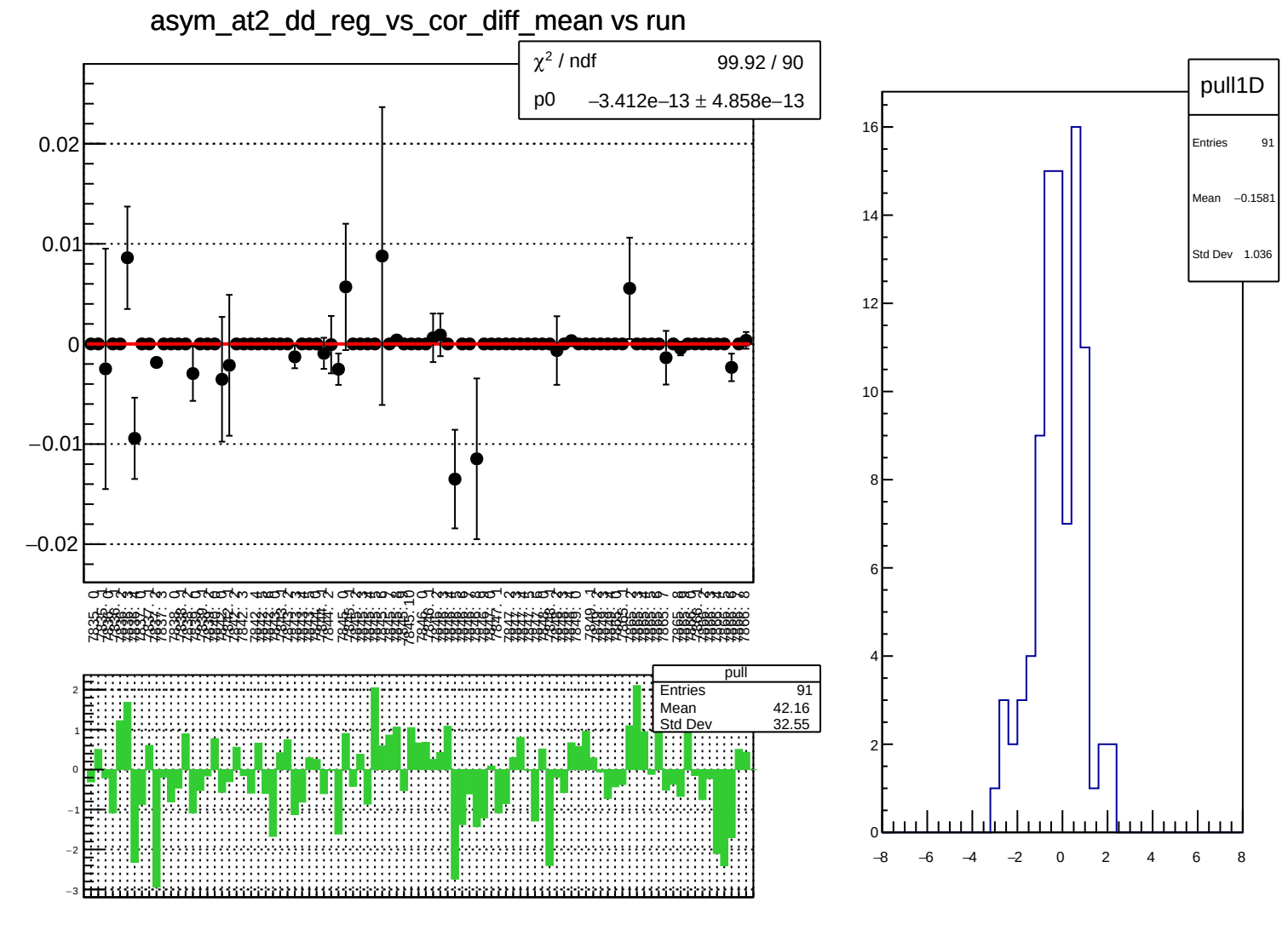

pull1D
Entries 91
Mean 0.01647
Std Dev 0.9693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

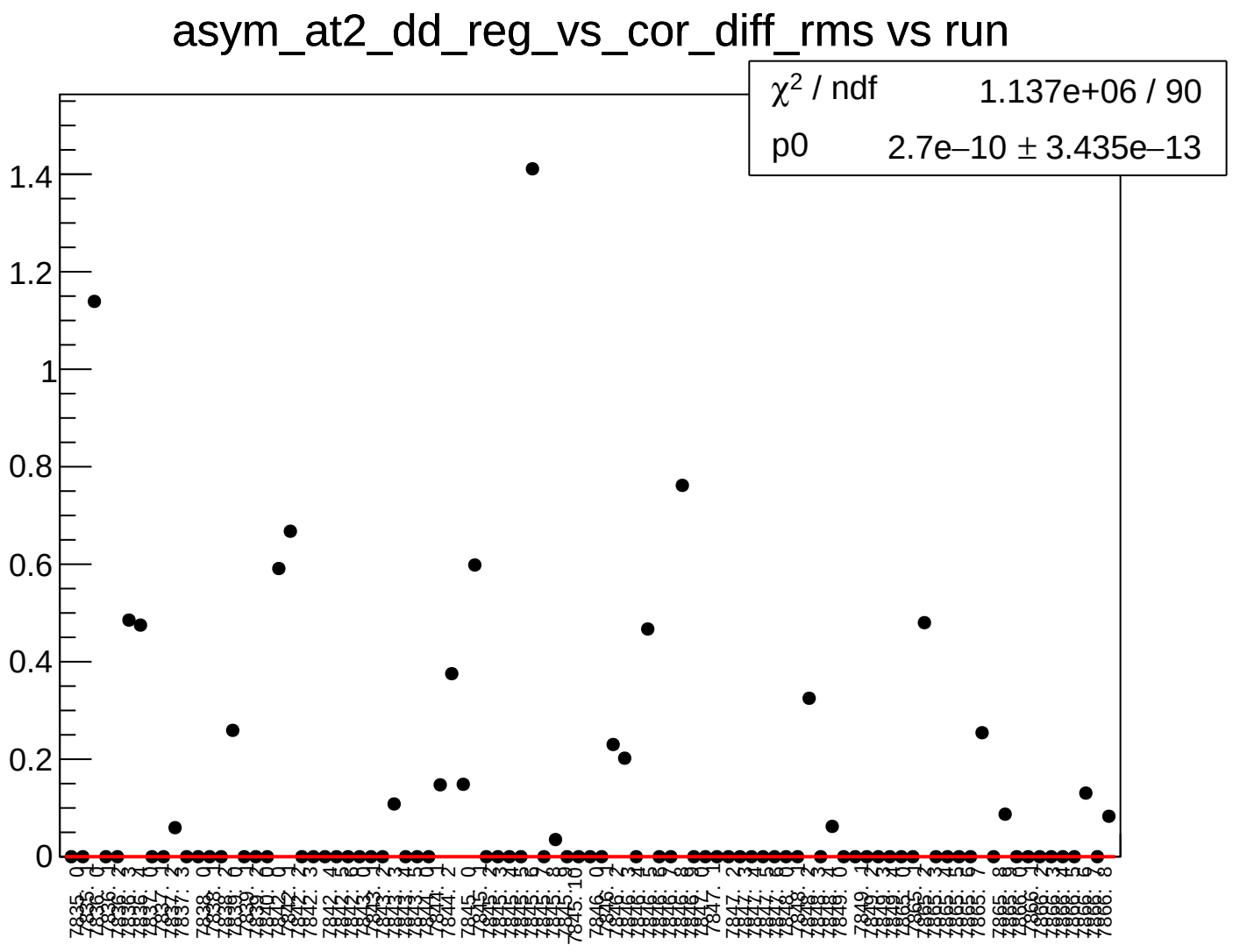

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.527e+04 / 90
p0 3311 ± 2.51
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

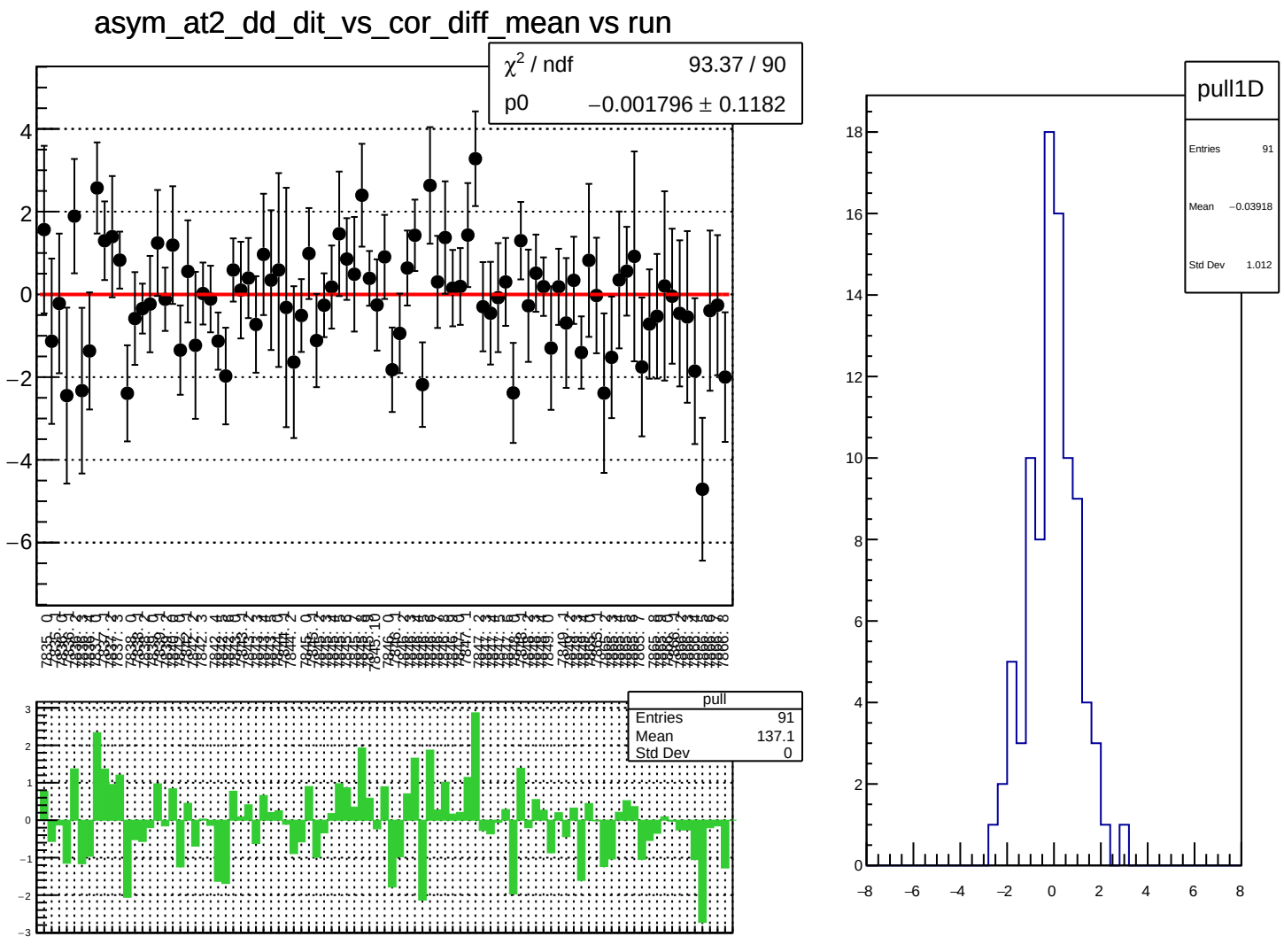

asym_at2_dd_mean vs run
×10^3
χ² / ndf 76.51 / 90
p0 3359 ± 3974
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 57.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

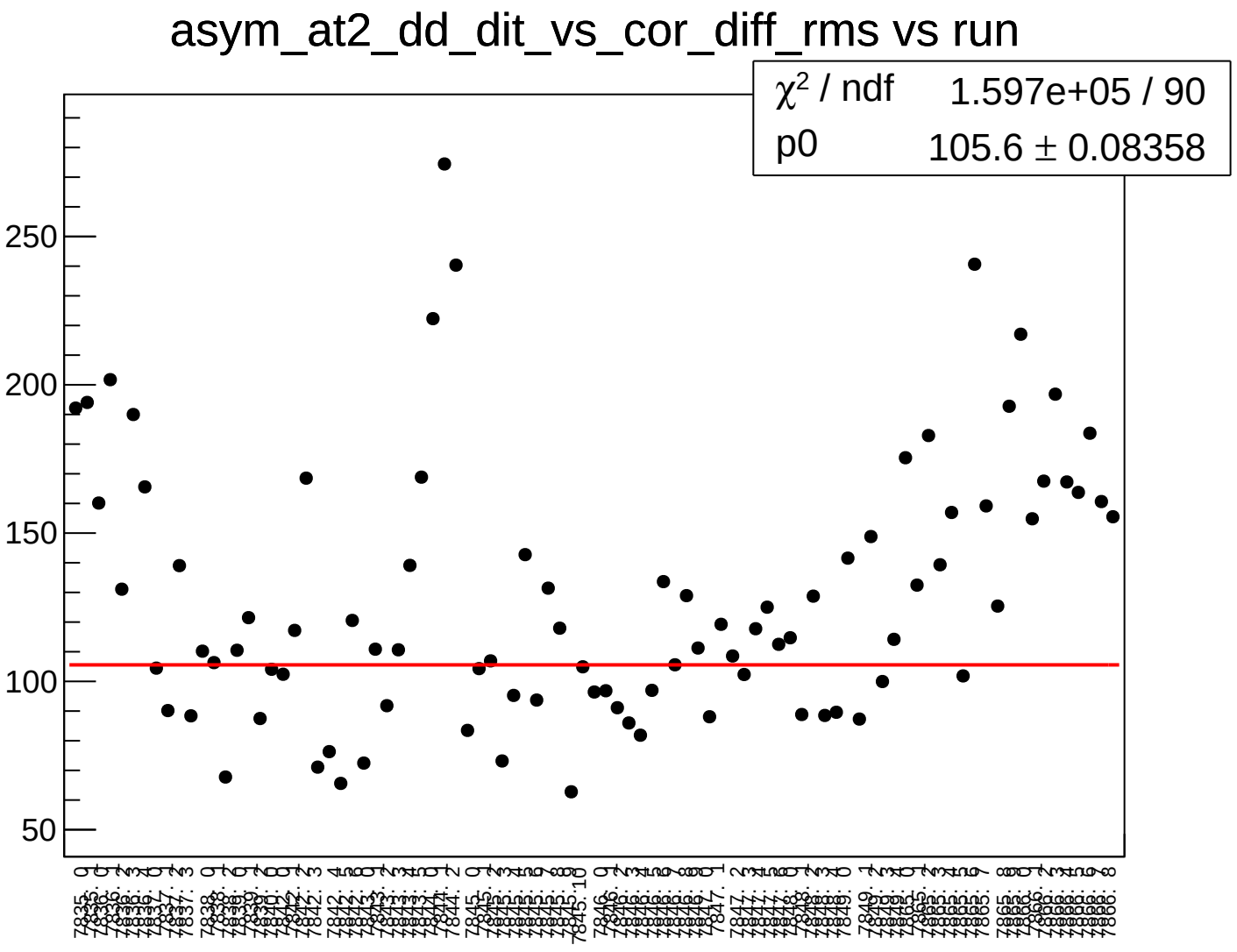

pull1D
Entries 91
Mean −0.01258
Std Dev 0.9168
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

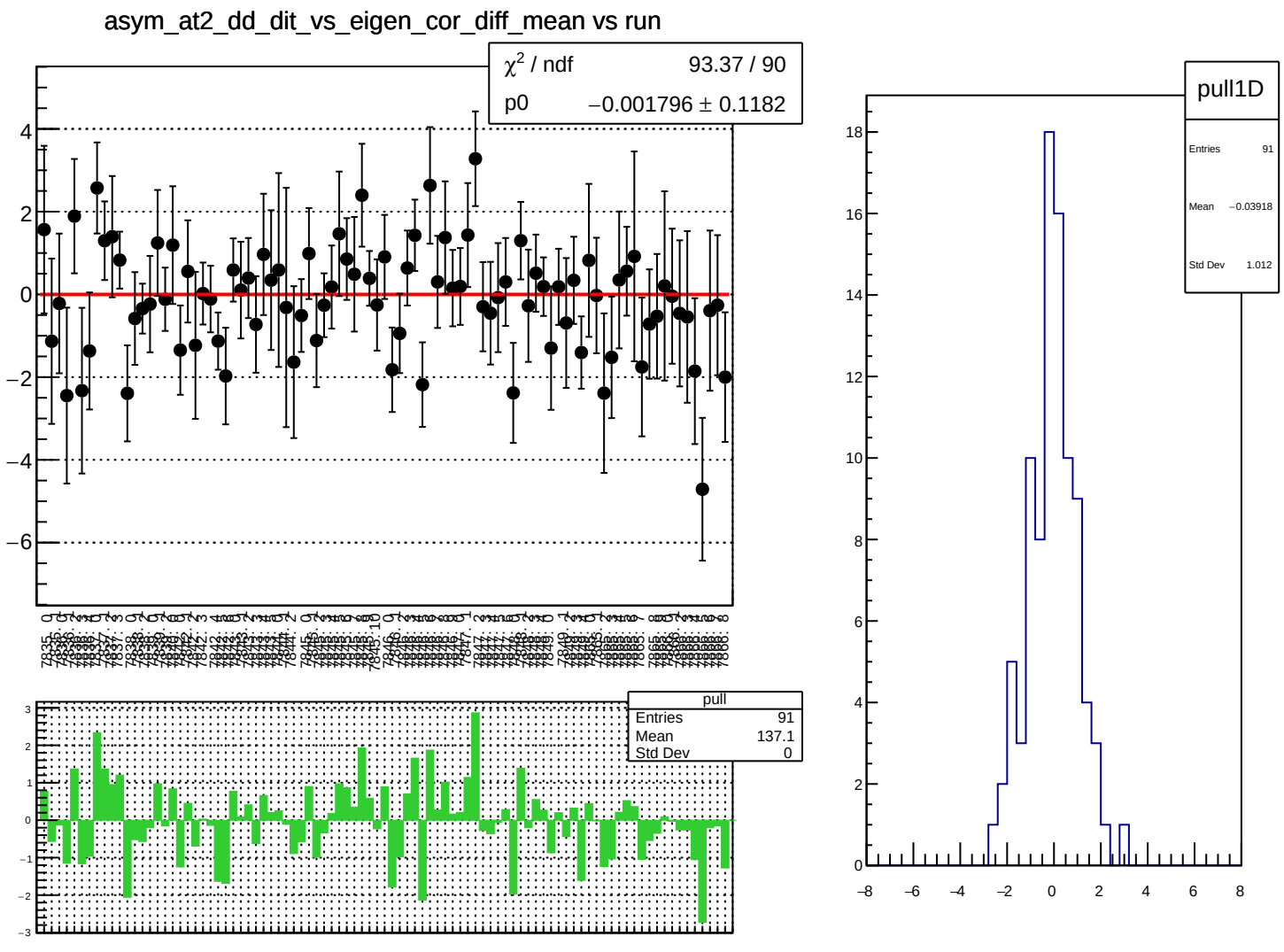

asym_at2_dd_rms vs run
χ² / ndf 1.032e+04 / 90
p0 3712 ± 2.81
4800
4600
4400
4200
4000
3800
3600
3400
3200

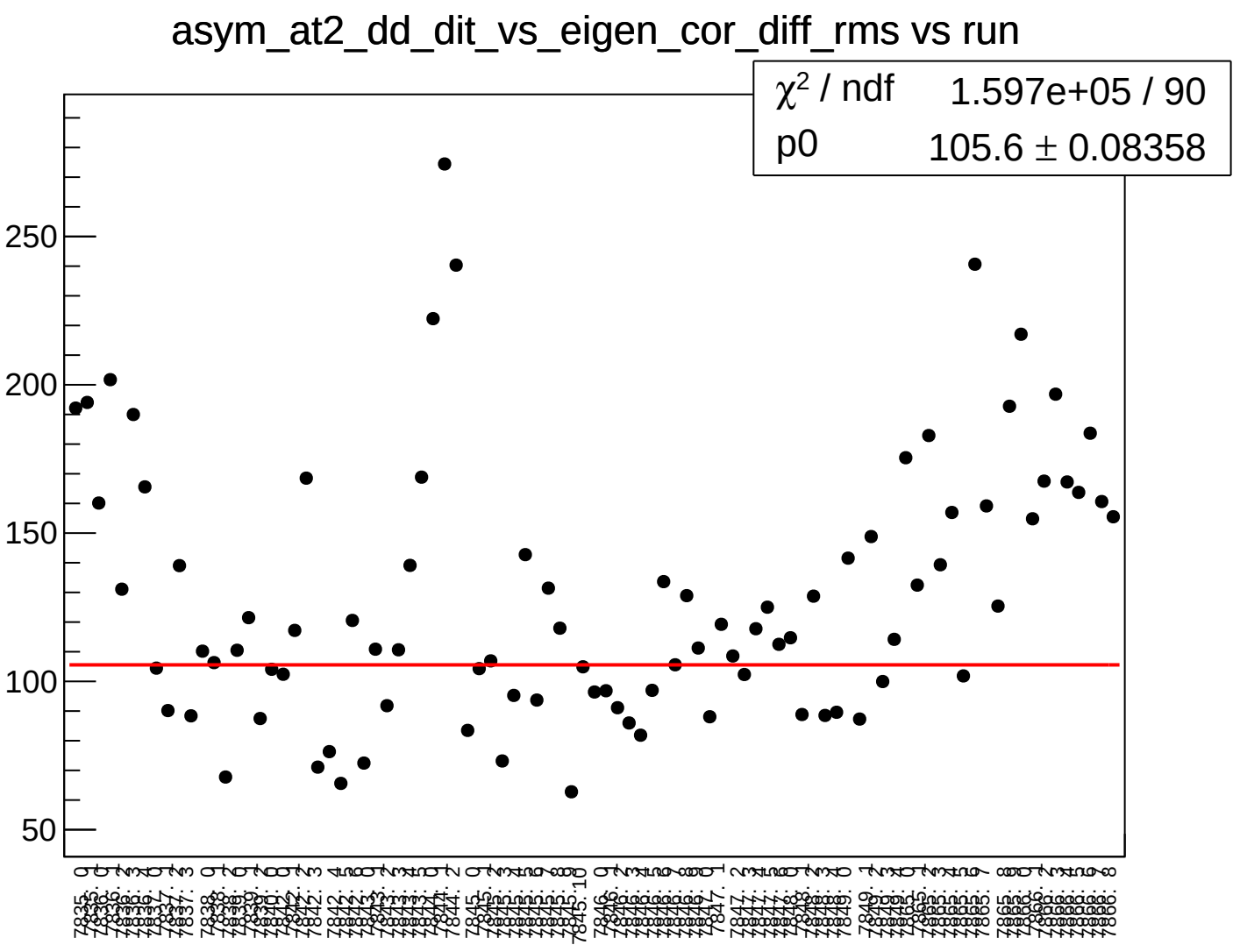

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.92 / 90
p0 −3.412e−13 ± 4.858e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 42.16
Std Dev 32.55
pull1D
Entries 91
Mean −0.1581
Std Dev 1.036

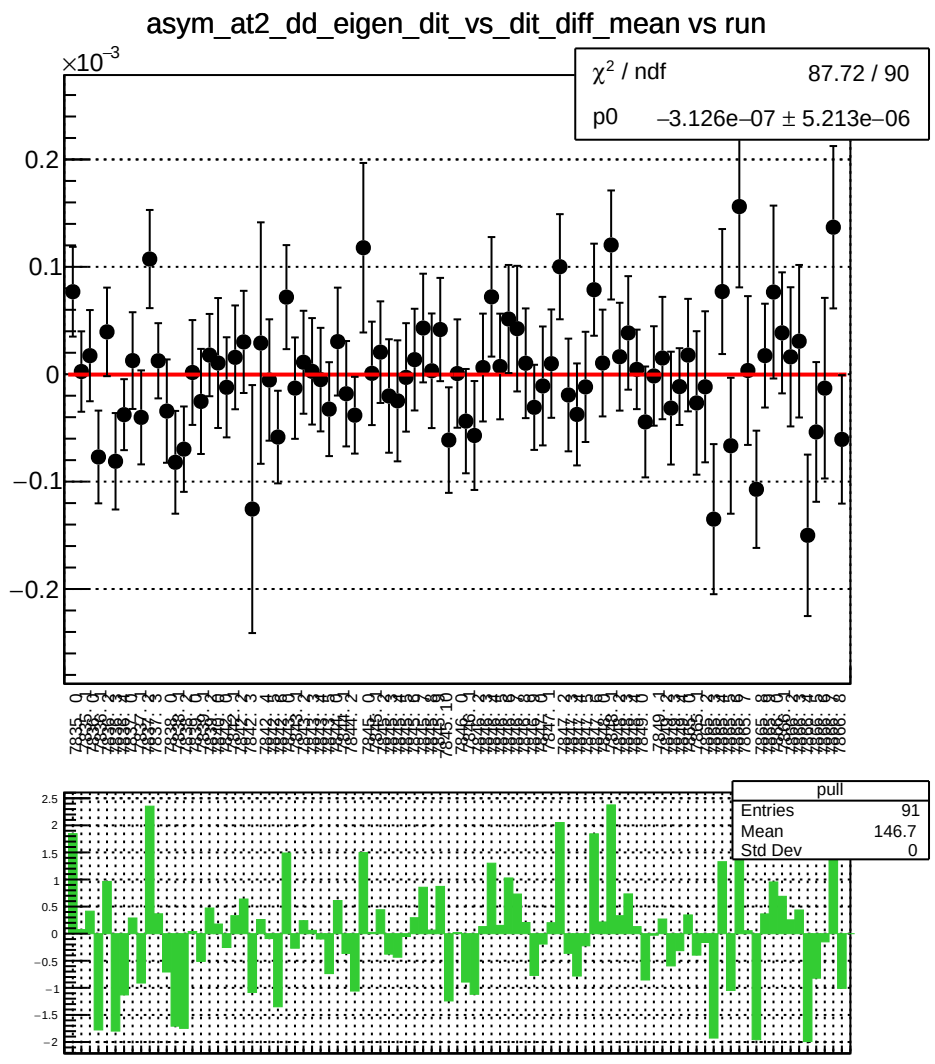

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 90
p0 2.7e−10 ± 3.435e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

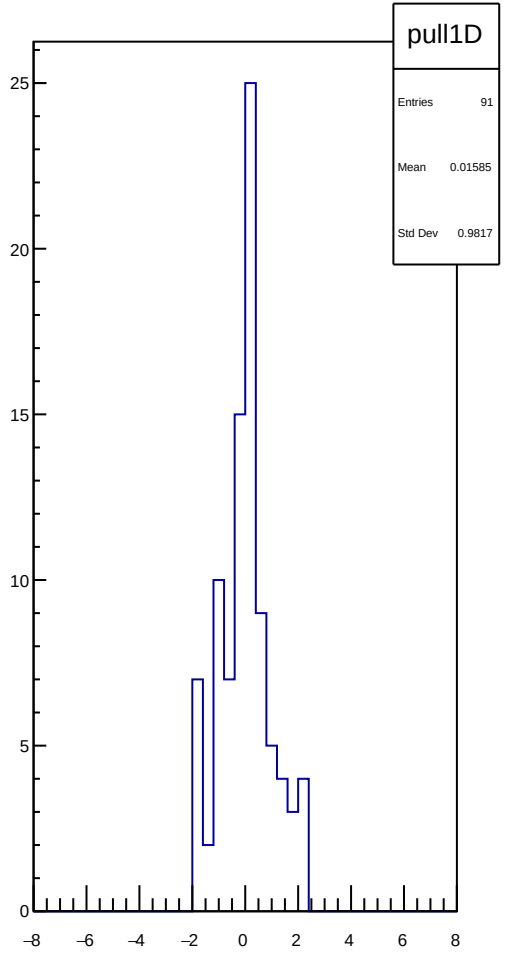

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.37 / 90
p0 −0.001796 ± 0.1182
pull
Entries 91
Mean 137.1
Std Dev 0
pull1D
Entries 91
Mean −0.03918
Std Dev 1.012

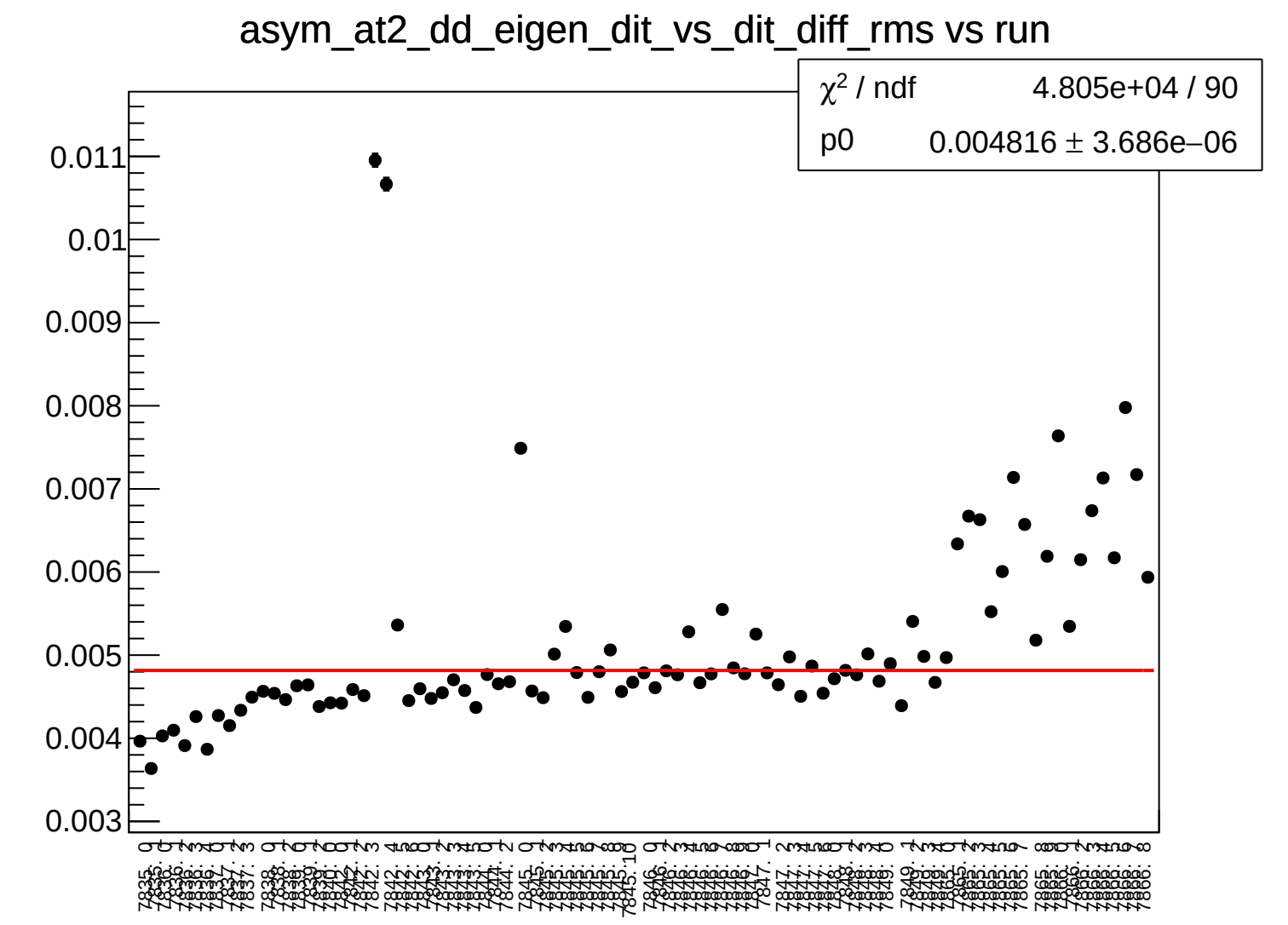

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 90
p0 105.6 ± 0.08358
250
200
150
100
50

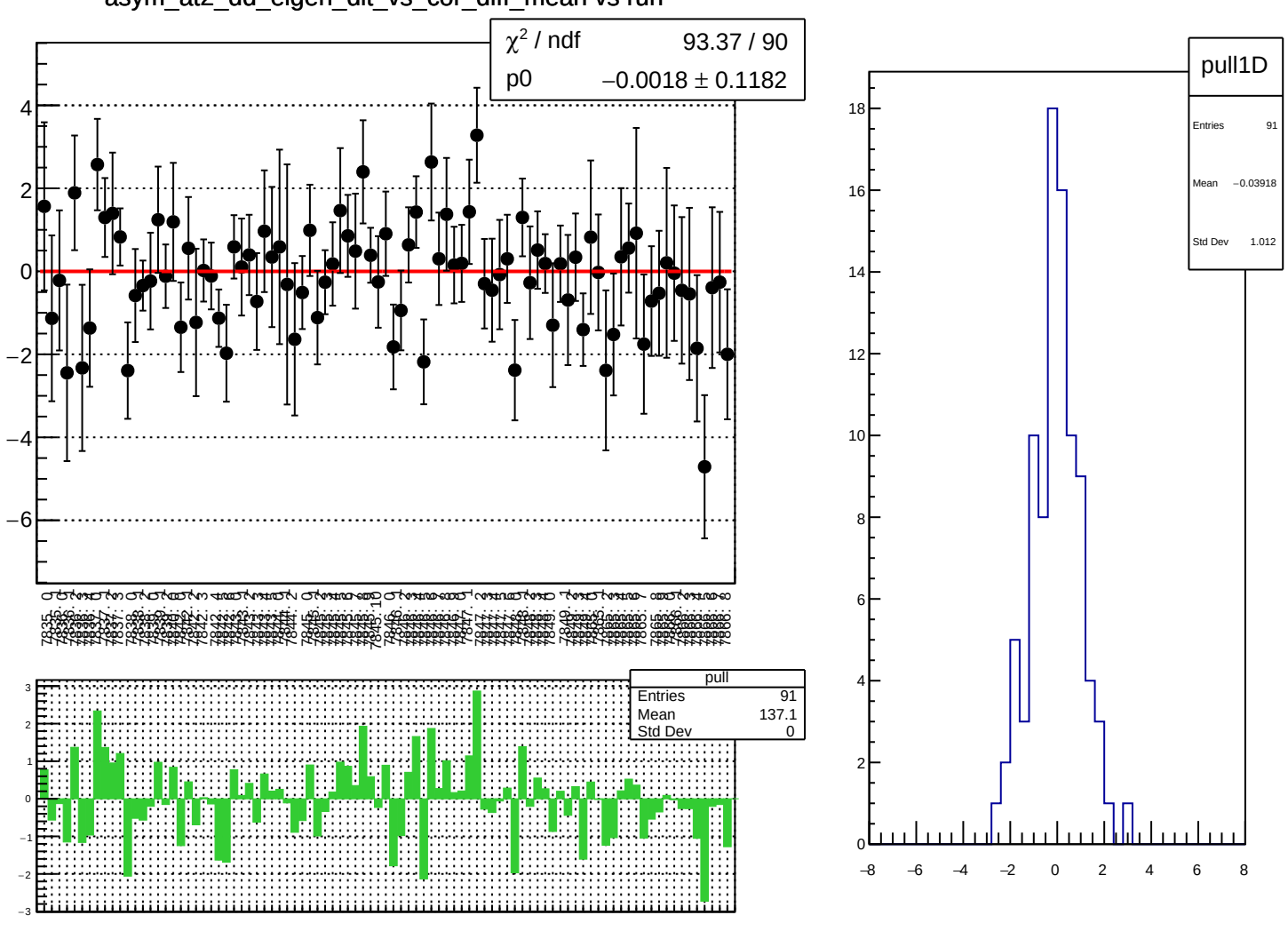

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.37 / 90
p0 −0.001796 ± 0.1182
pull
Entries 91
Mean 137.1
Std Dev 0
pull1D
Entries 91
Mean −0.03918
Std Dev 1.012

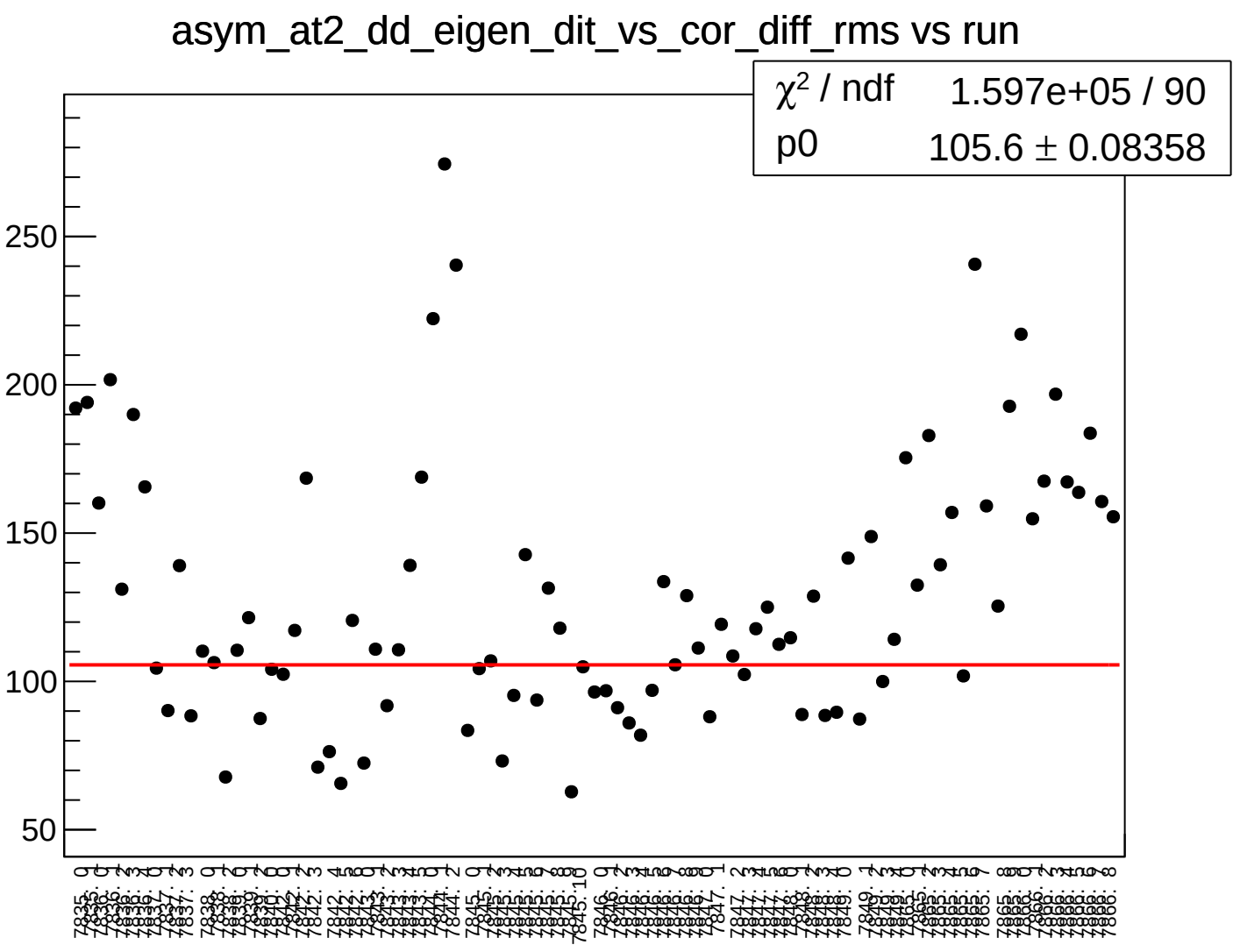

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 90
p0 105.6 ± 0.08358
250
200
150
100
50

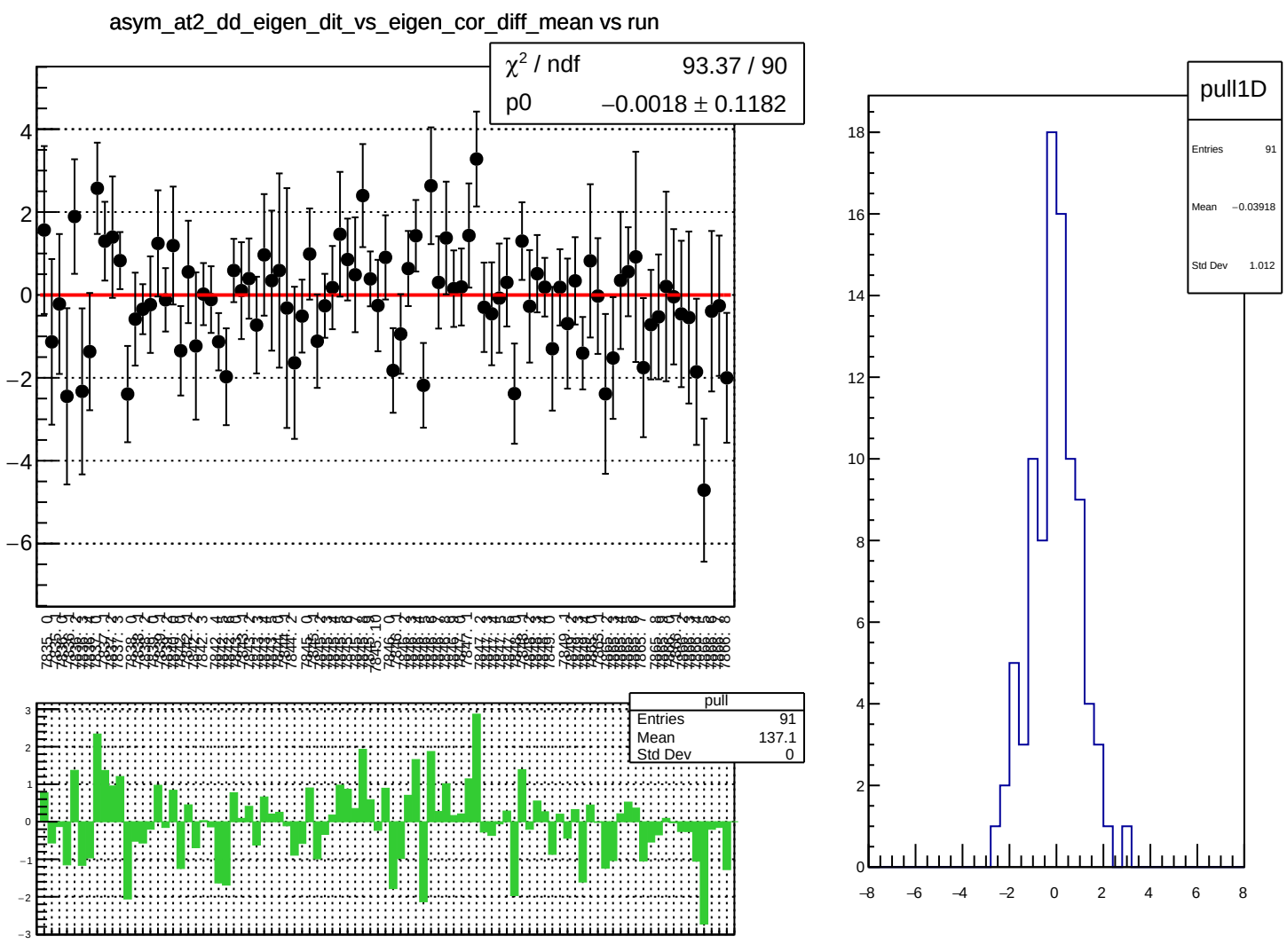

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.72 / 90
p0 −3.126e−07 ± 5.213e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 146.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

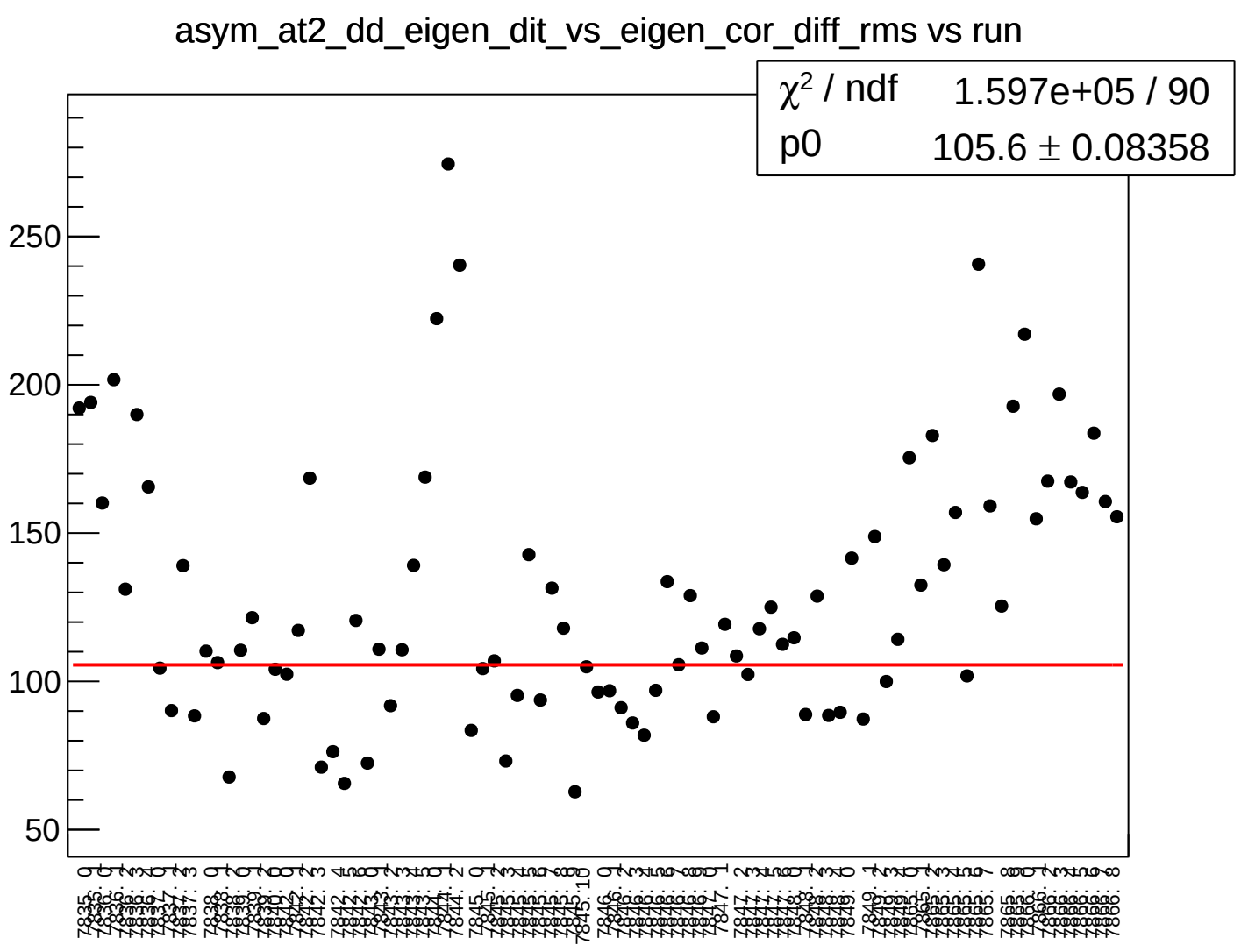

pull1D
Entries 91
Mean 0.01585
Std Dev 0.9817
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

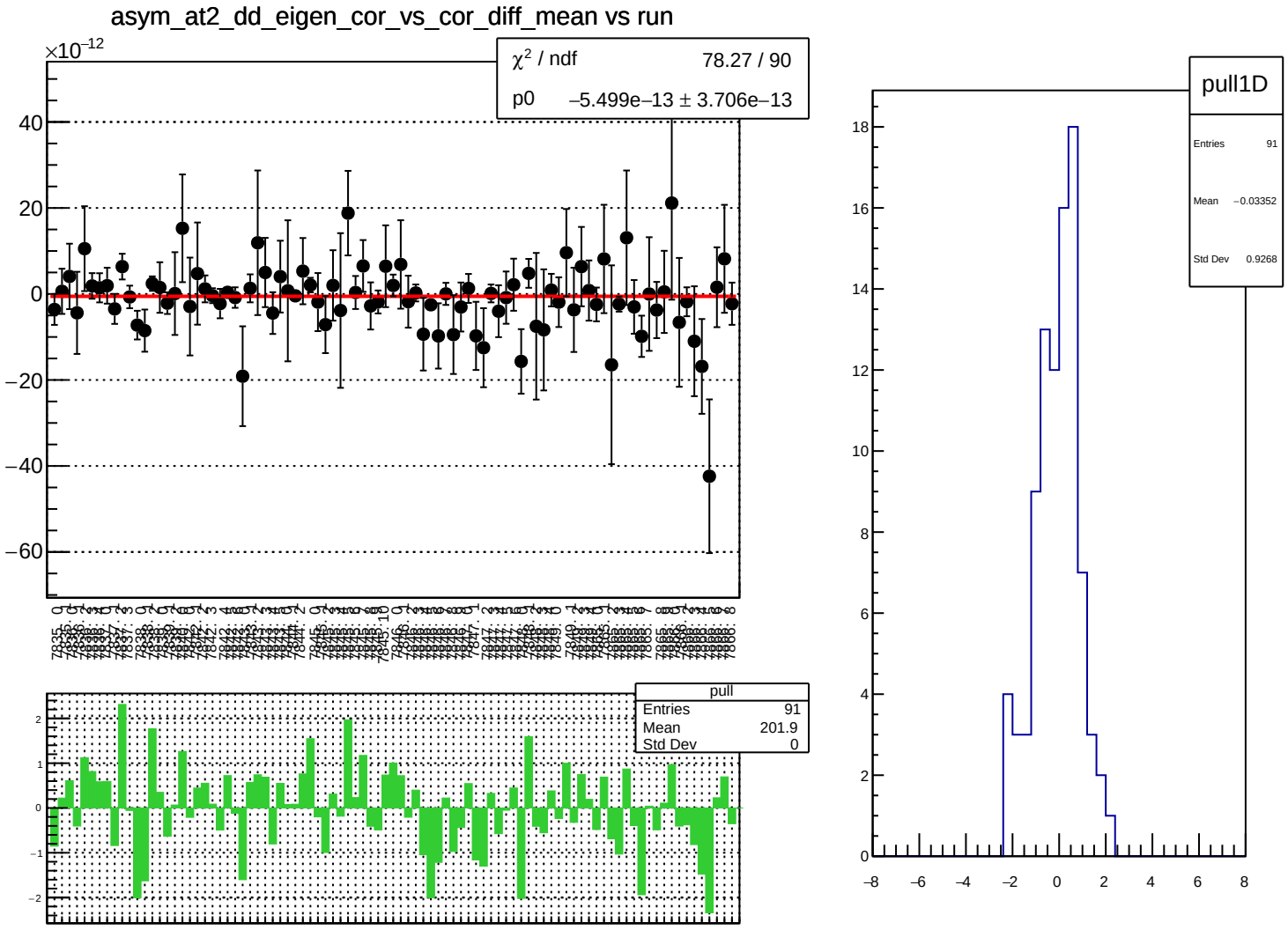

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.805e+04 / 90
p0 0.004816 ± 3.686e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

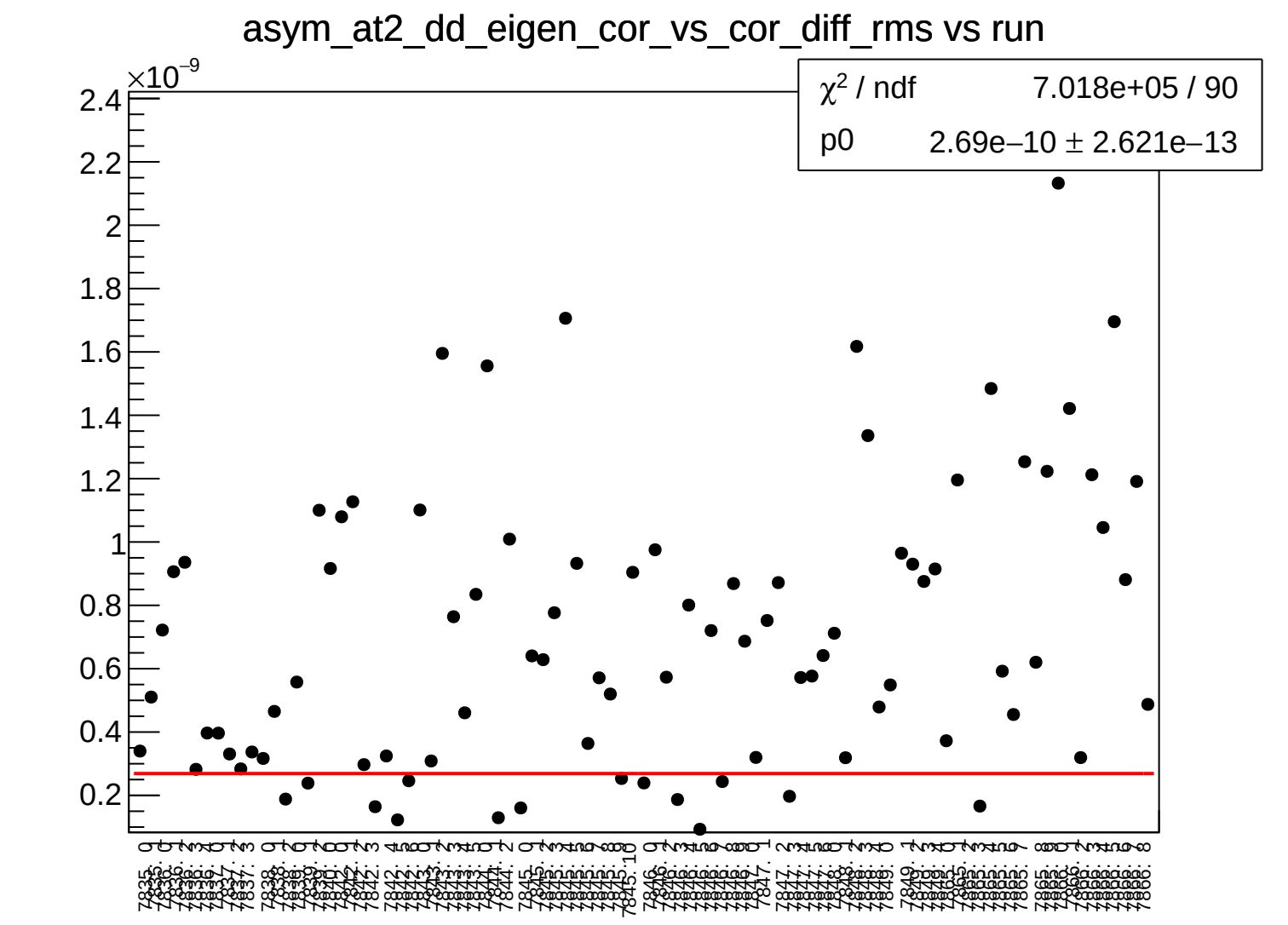

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.37 / 90
p0 −0.0018 ± 0.1182
pull
Entries 91
Mean 137.1
Std Dev 0
pull1D
Entries 91
Mean −0.03918
Std Dev 1.012

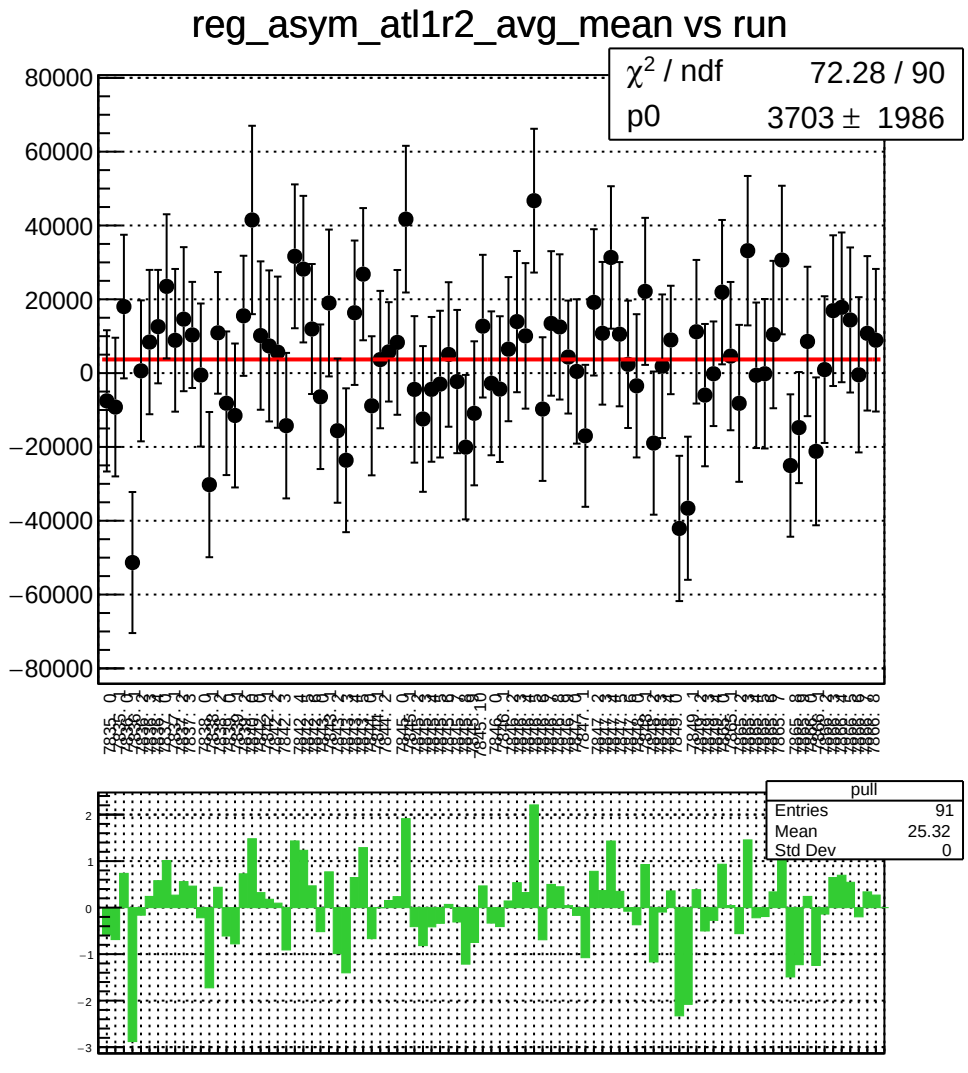

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 90
p0 105.6 ± 0.08358
250
200
150
100
50

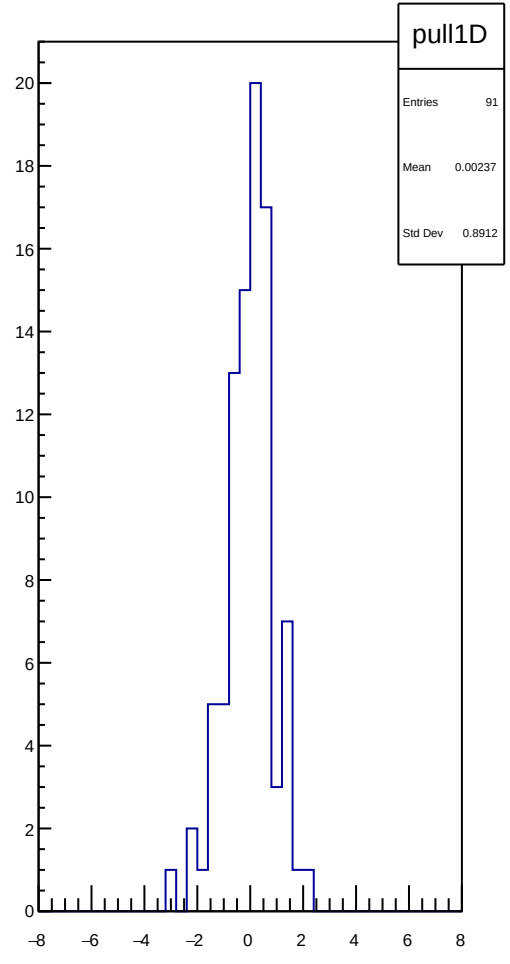

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.37 / 90
p0 −0.0018 ± 0.1182
pull
Entries 91
Mean 137.1
Std Dev 0
pull1D
Entries 91
Mean −0.03918
Std Dev 1.012

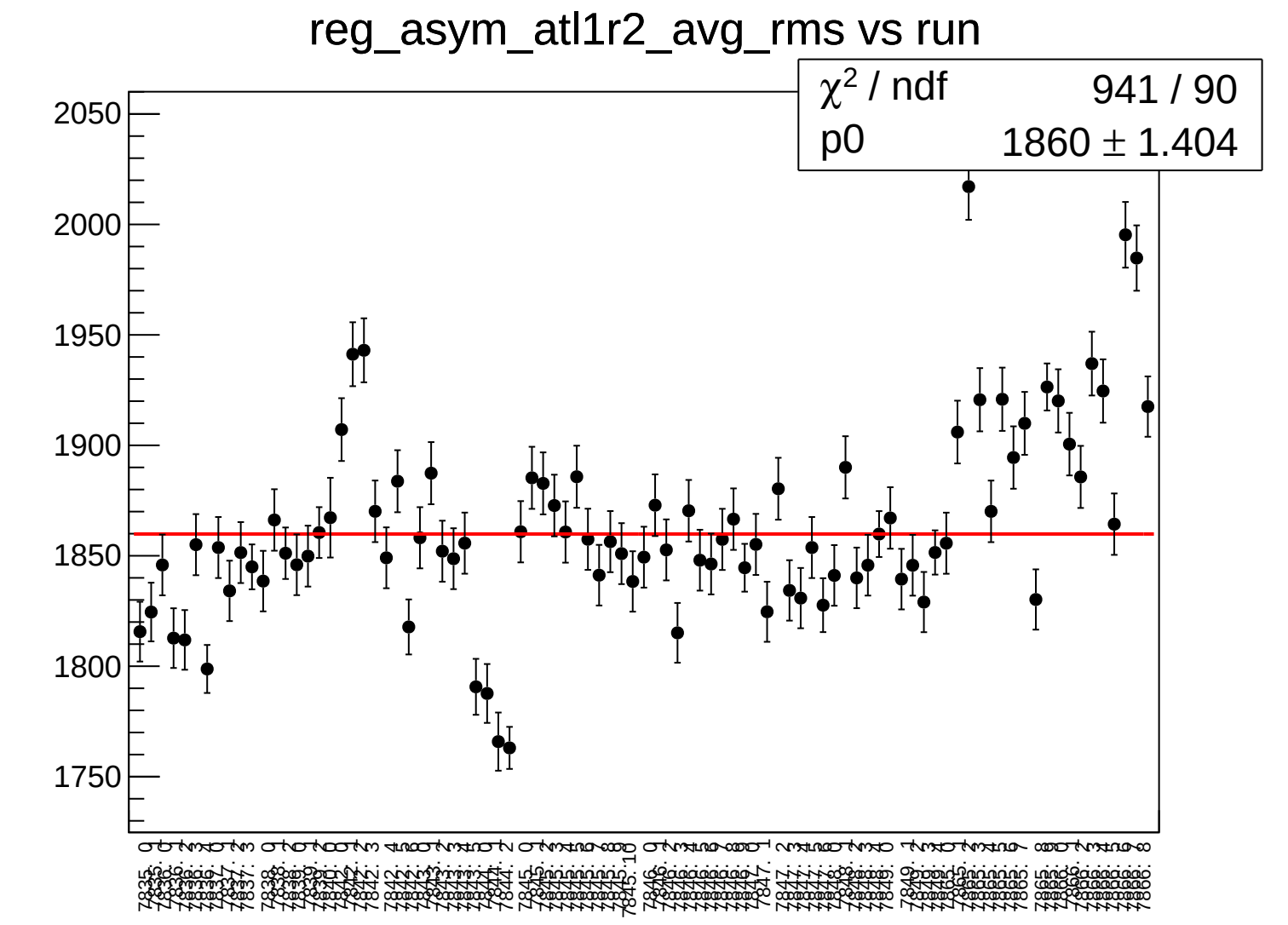

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 90
p0 105.6 ± 0.08358
250
200
150
100
50

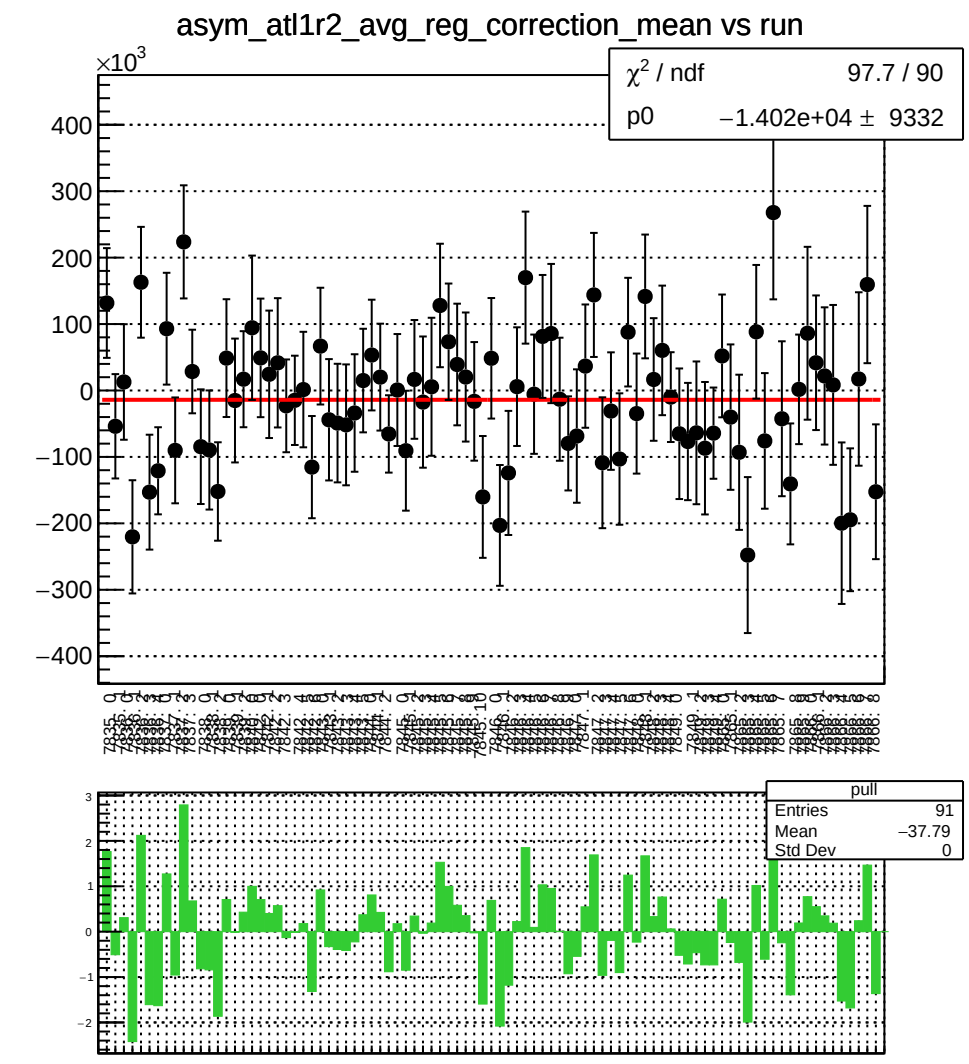

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.27 / 90
p0 −5.499e−13 ± 3.706e−13
40
20
0
−20
−40
−60
pull
Entries 91
Mean 201.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.03352
Std Dev 0.9268
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

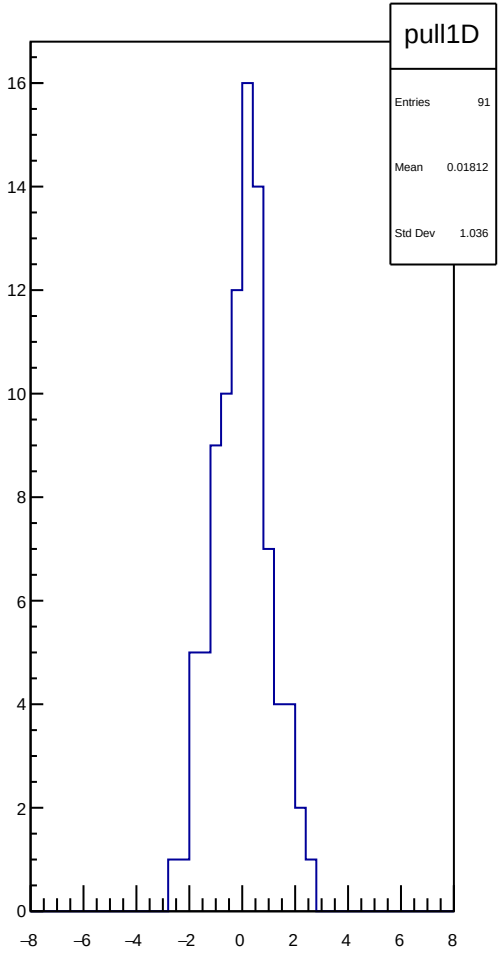

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.018e+05 / 90
p0 2.69e−10 ± 2.621e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

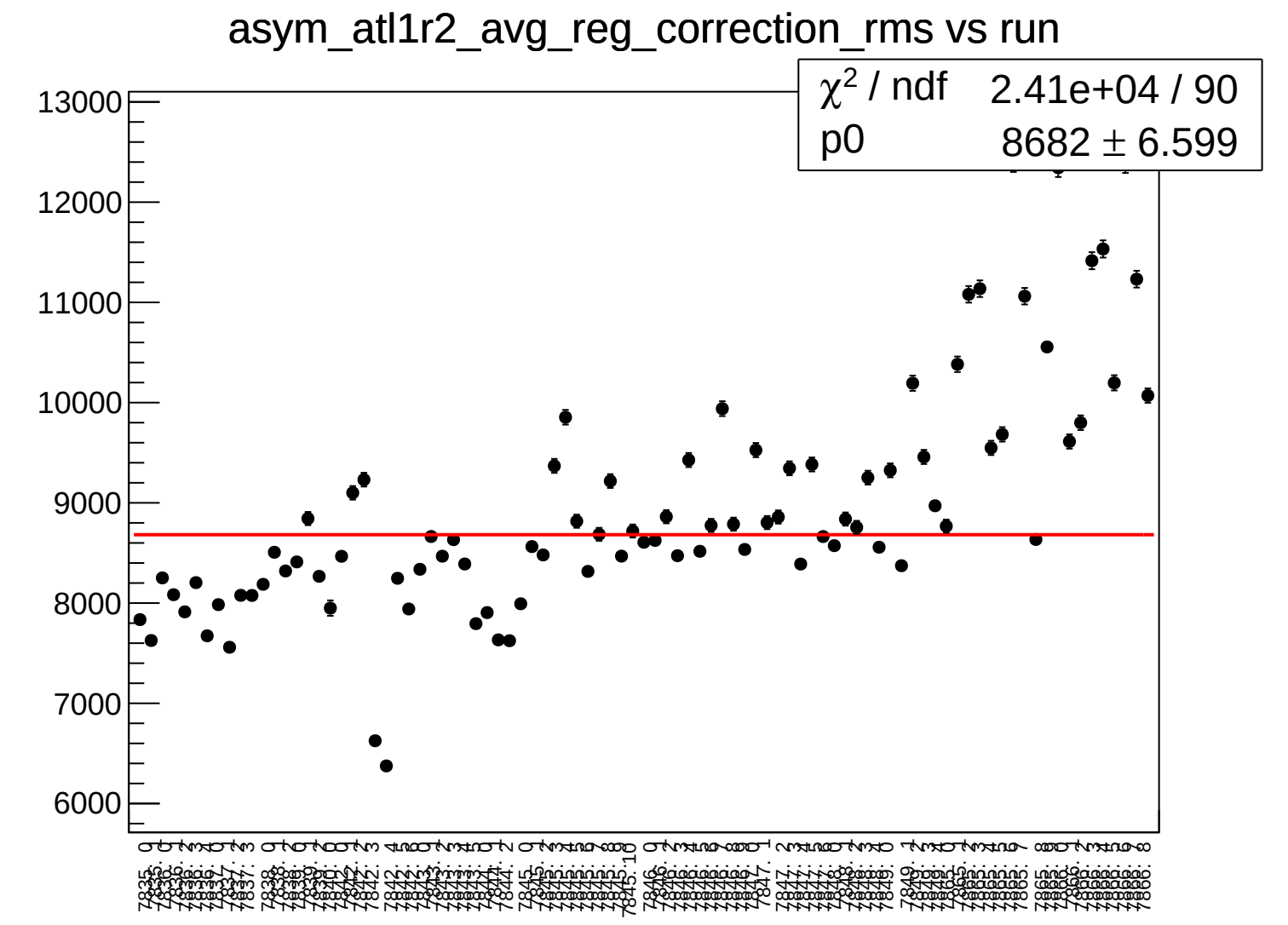

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 72.28 / 90
p0 3703 ± 1986
pull
Entries 91
Mean 25.32
Std Dev 0

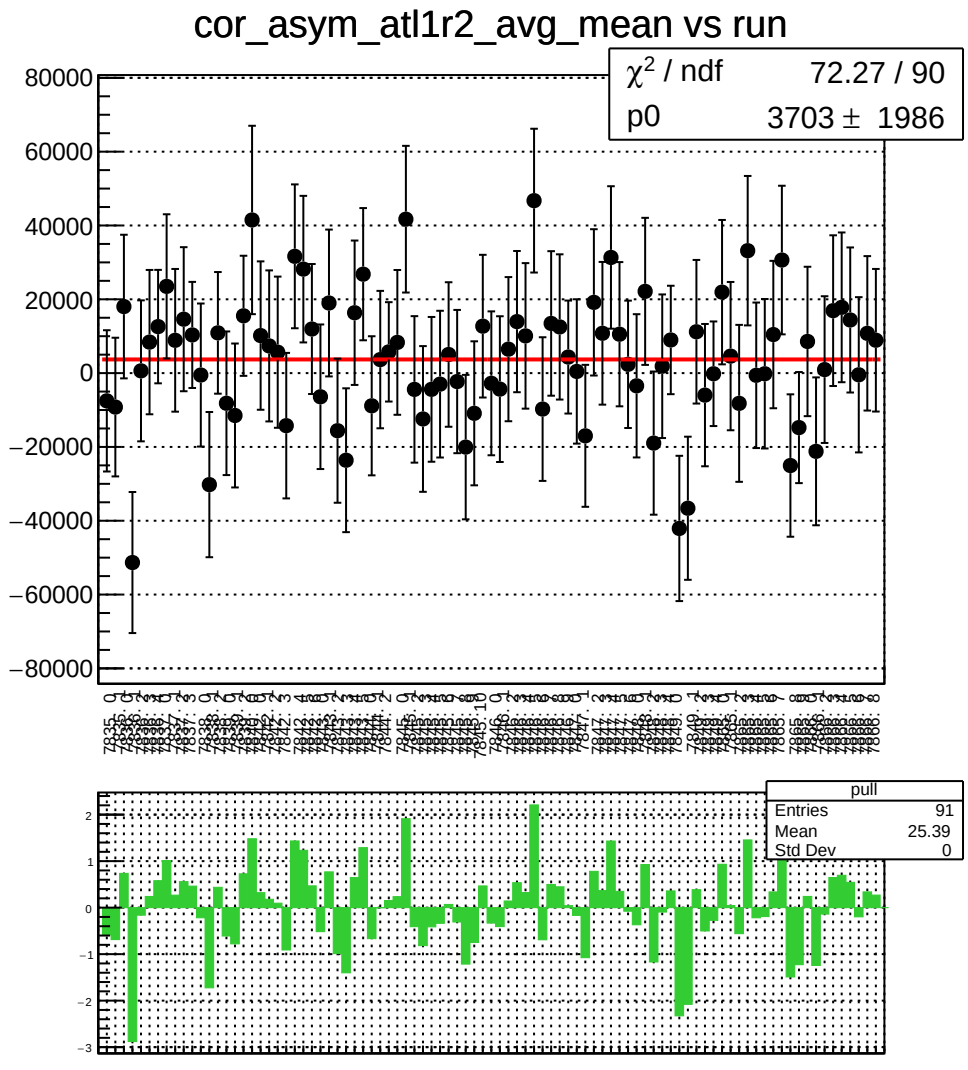

pull1D
Entries 91
Mean 0.00237
Std Dev 0.8912

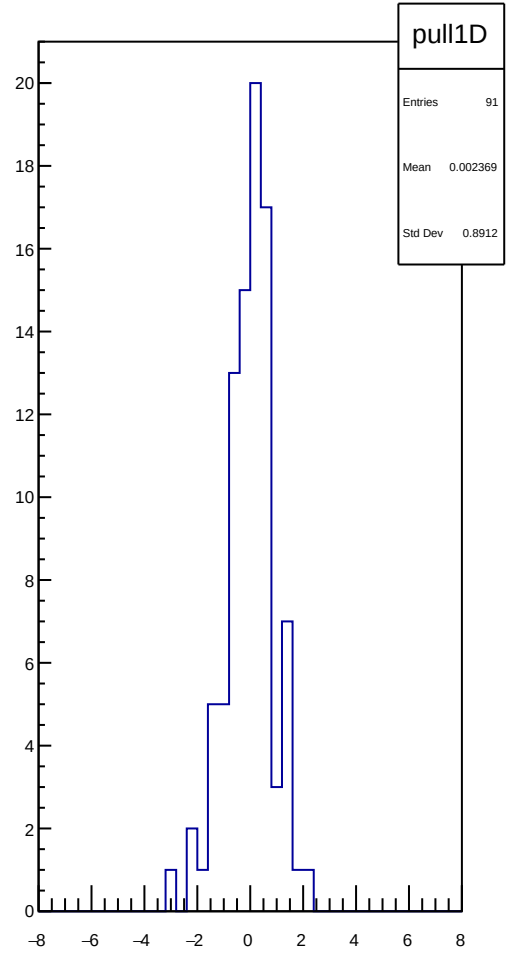

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 941 / 90
p0 1860 ± 1.404
2050
2000
1950
1900
1850
1800
1750

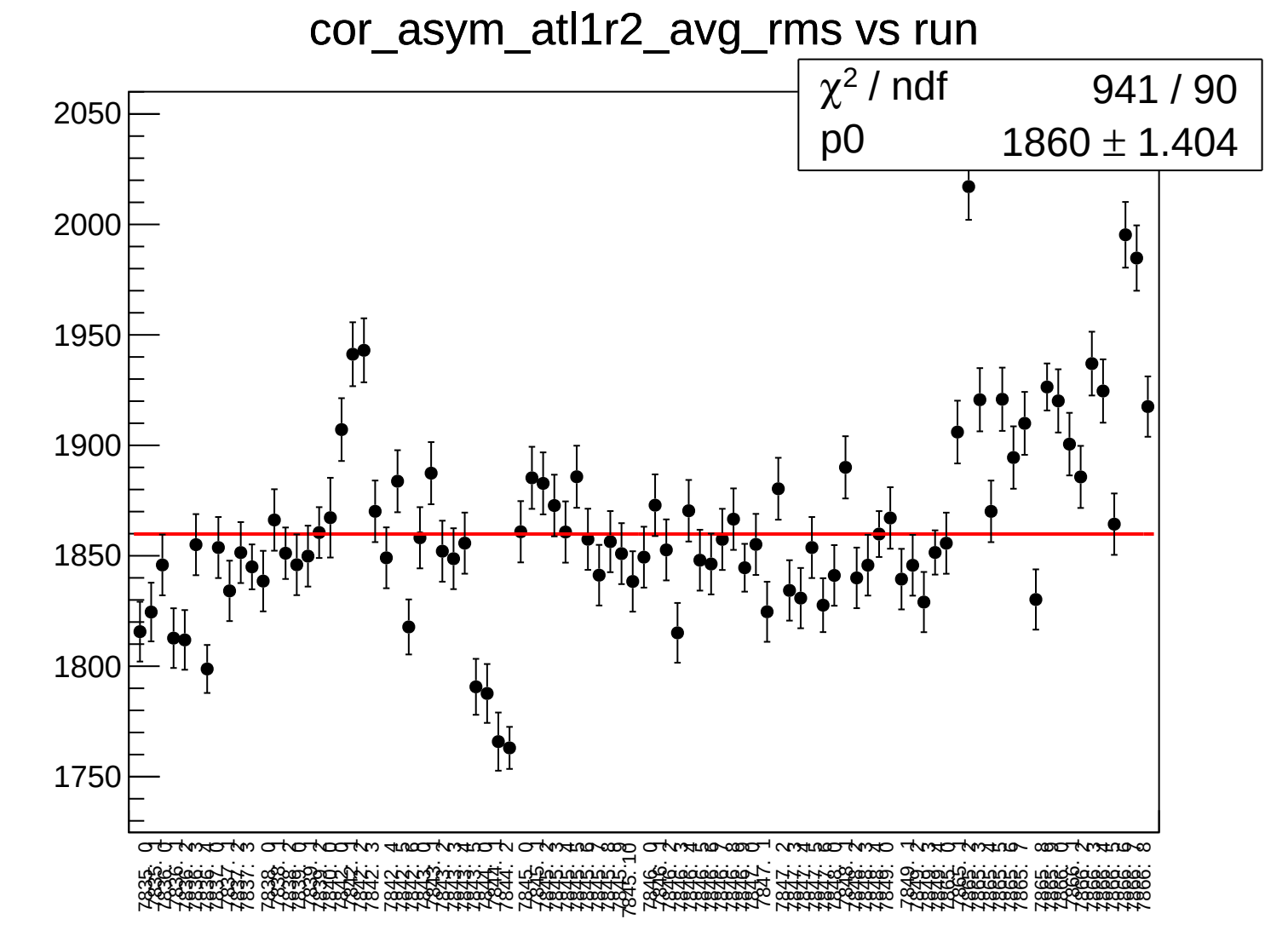

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.7 / 90
p0 −1.402e+04 ± 9332
pull
Entries 91
Mean −37.79
Std Dev 0

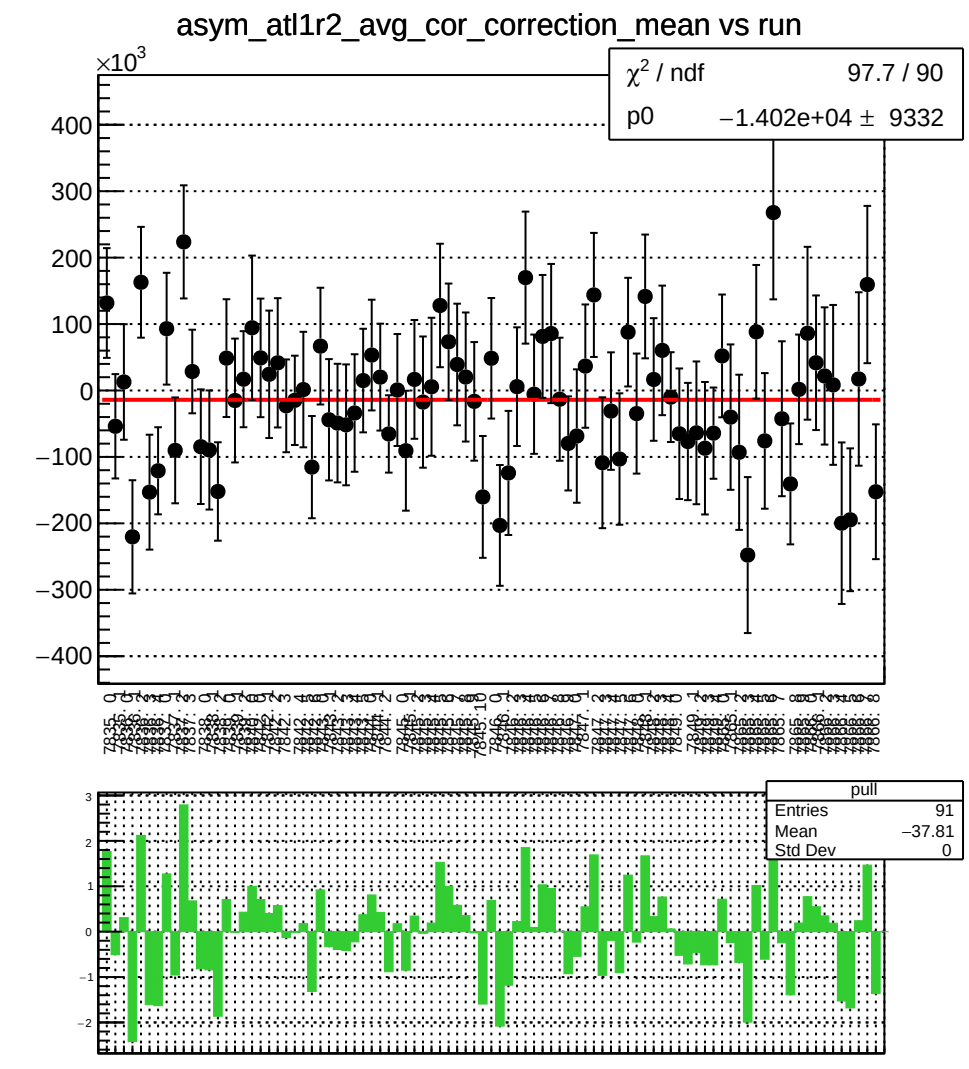

pull1D
Entries 91
Mean 0.01812
Std Dev 1.036

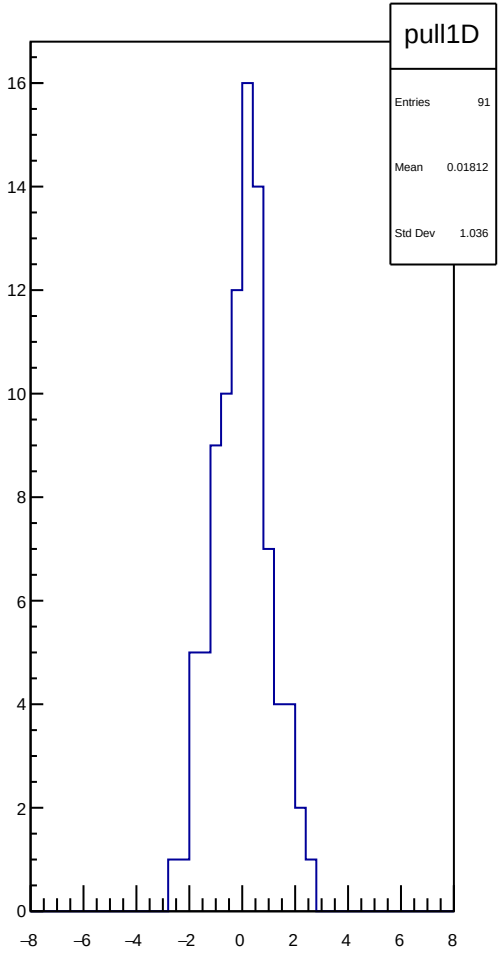

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 2.41e+04 / 90
p0 8682 ± 6.599
13000
12000
11000
10000
9000
8000
7000
6000

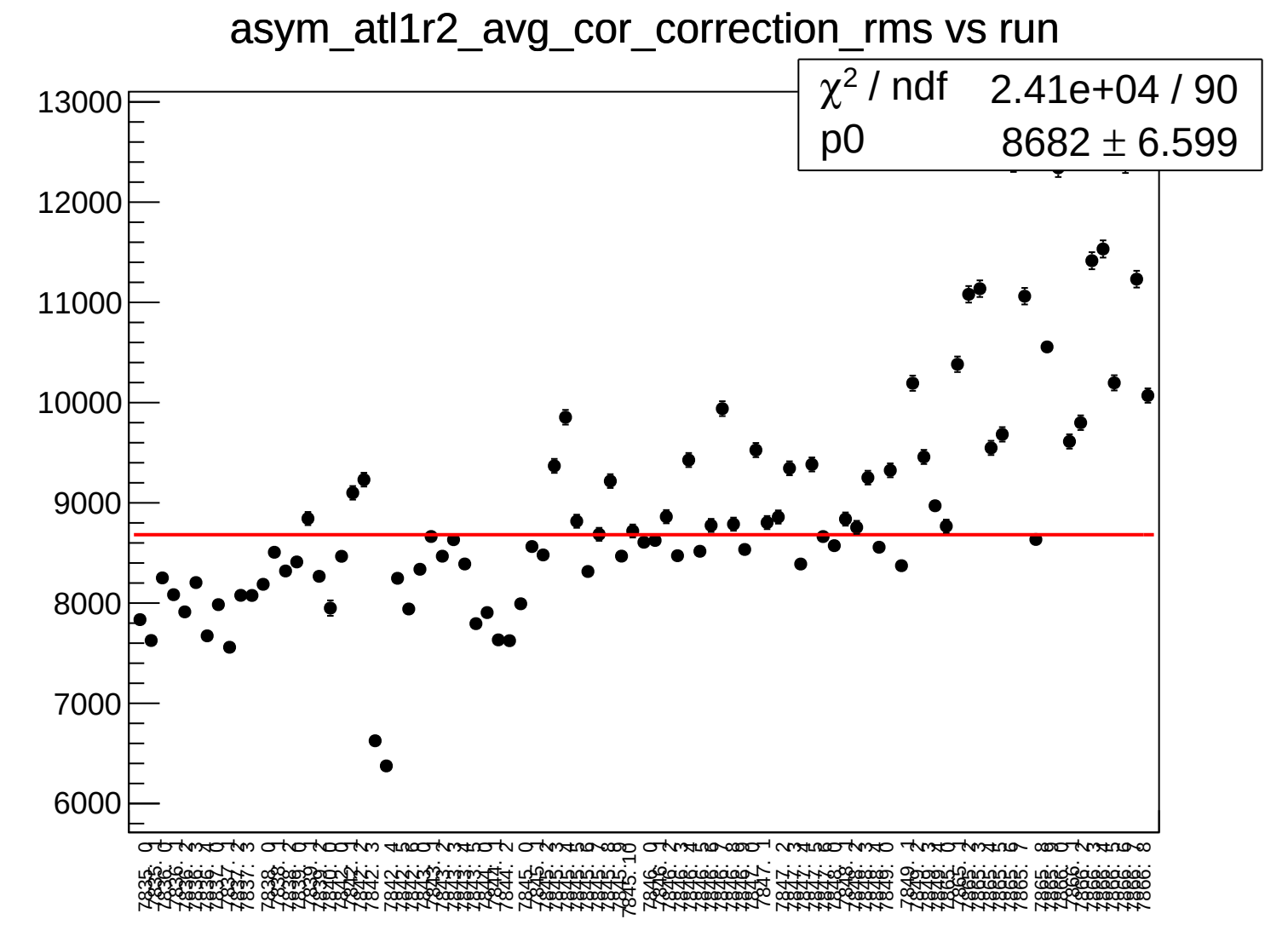

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 72.27 / 90
p0 3703 ± 1986
pull
Entries 91
Mean 25.39
Std Dev 0

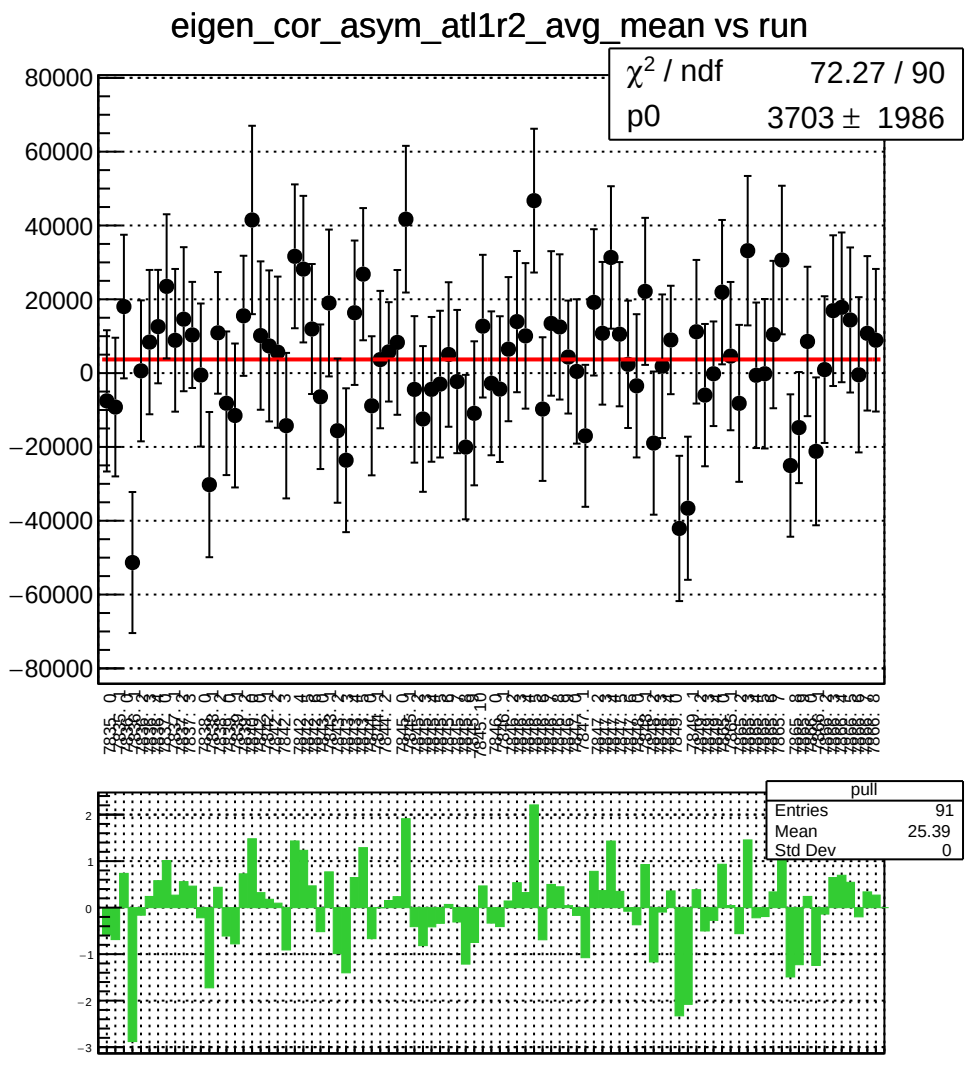

pull1D
Entries 91
Mean 0.002369
Std Dev 0.8912

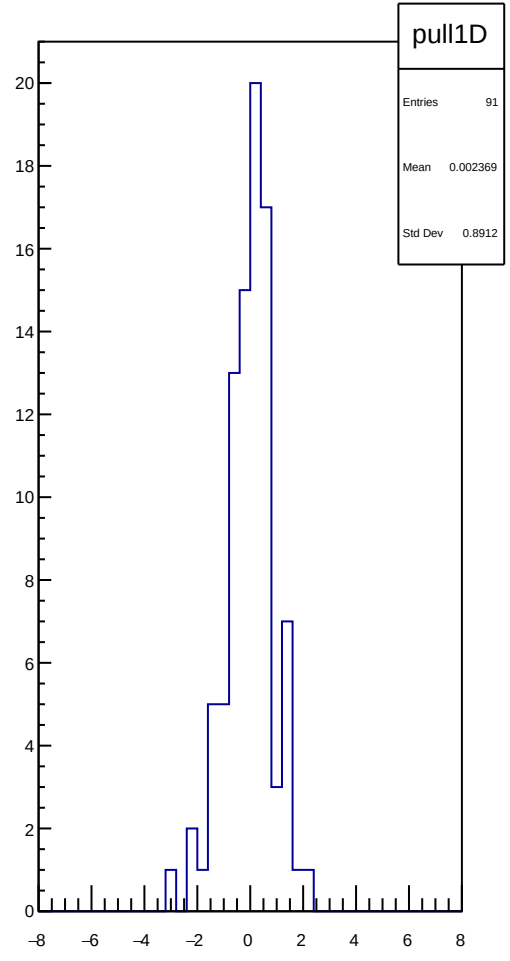

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 941 / 90
p0 1860 ± 1.404
2050
2000
1950
1900
1850
1800
1750

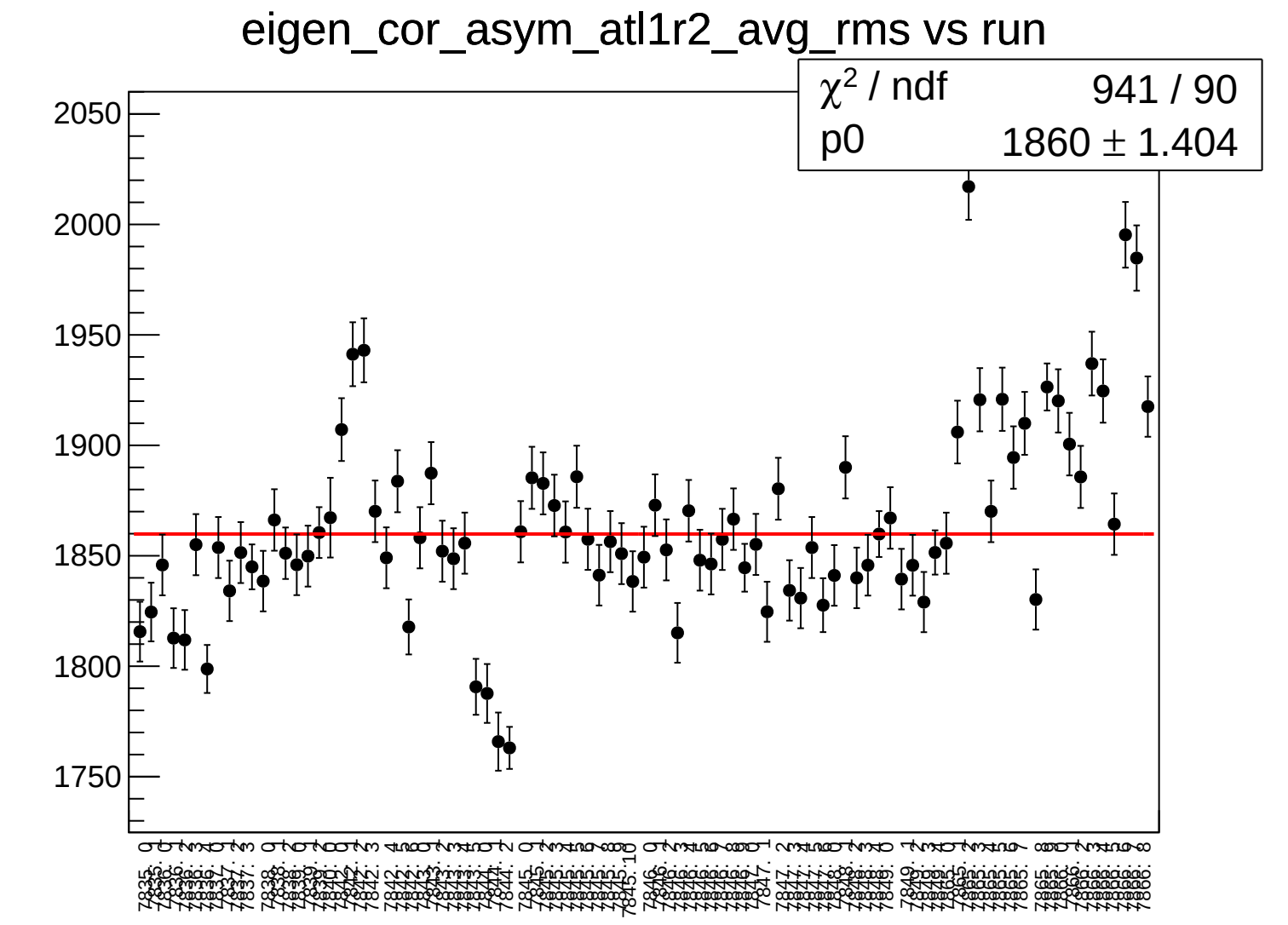

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.7 / 90
p0 −1.402e+04 ± 9332
pull
Entries 91
Mean −37.81
Std Dev 0

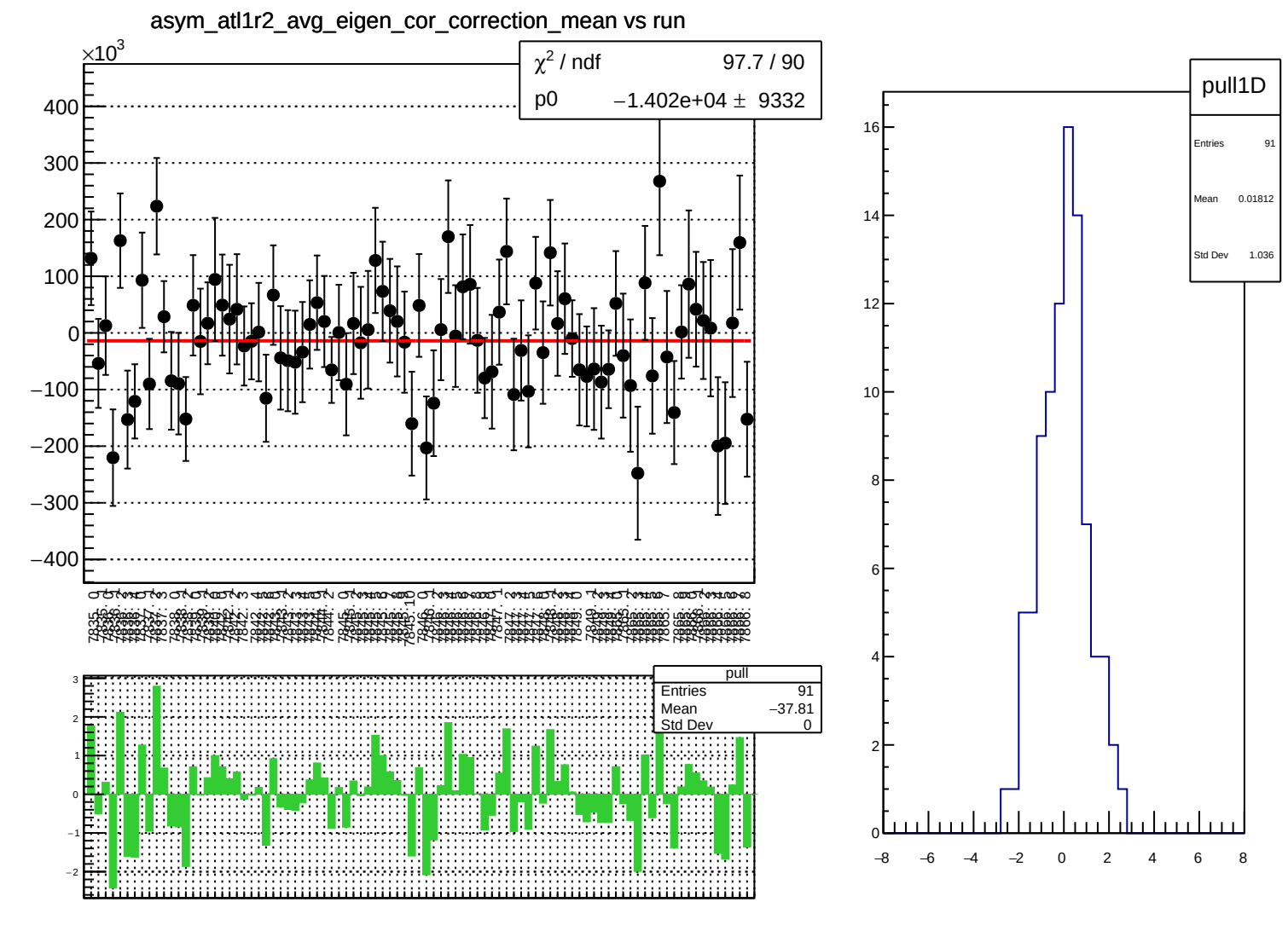

pull1D
Entries 91
Mean 0.01812
Std Dev 1.036

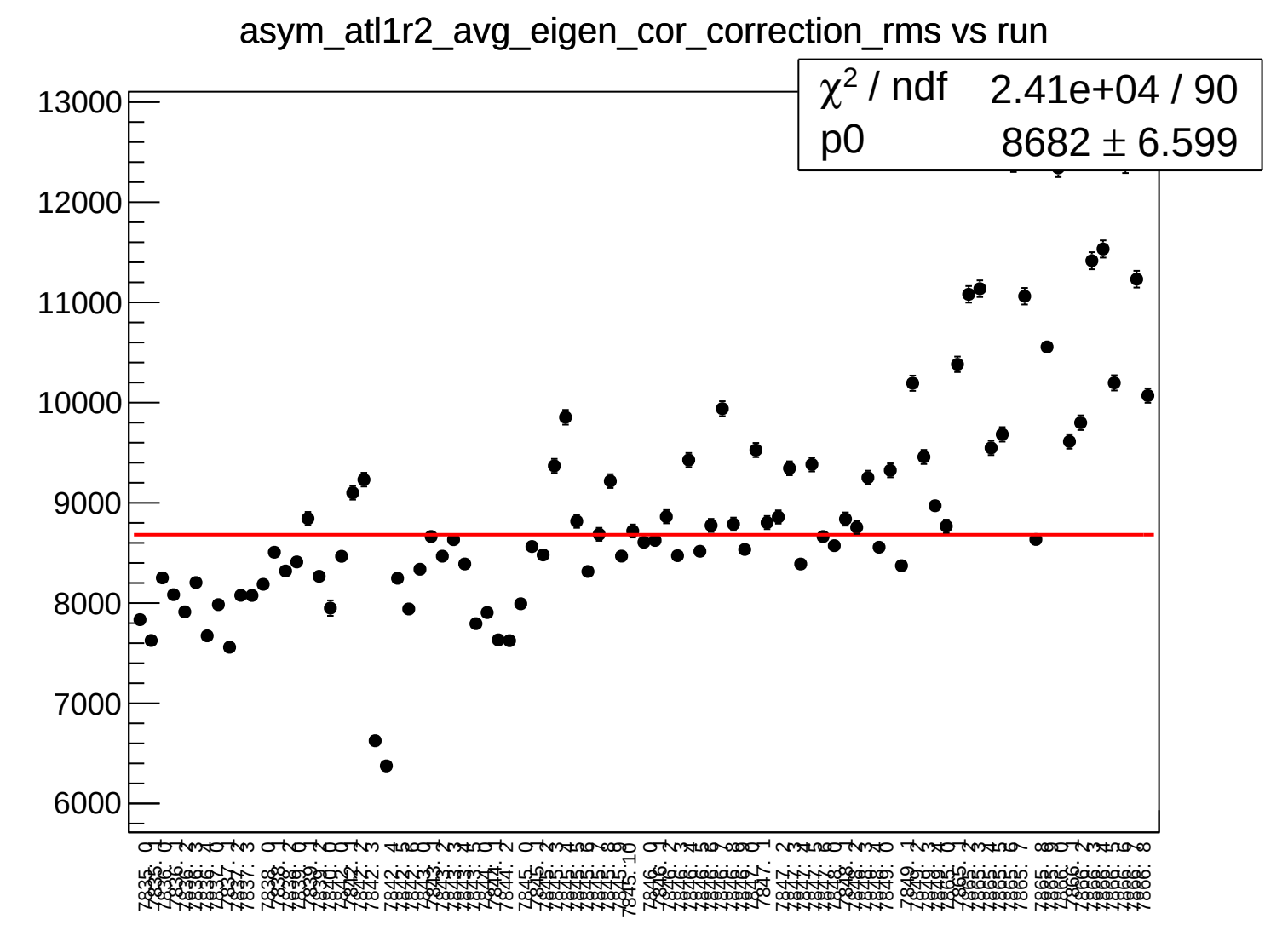

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 2.41e+04 / 90
p0 8682 ± 6.599
13000
12000
11000
10000
9000
8000
7000
6000

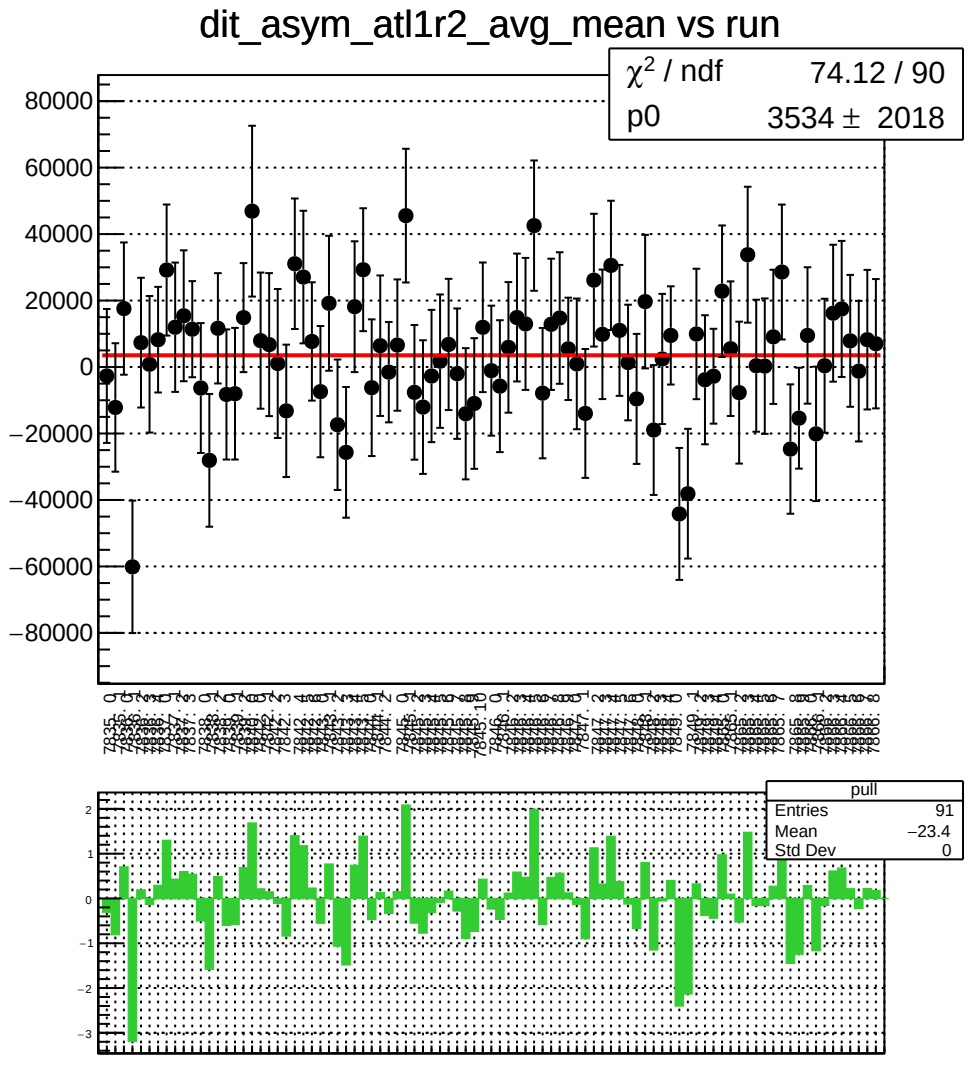

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 72.27 / 90
p0 3703 ± 1986
pull
Entries 91
Mean 25.39
Std Dev 0

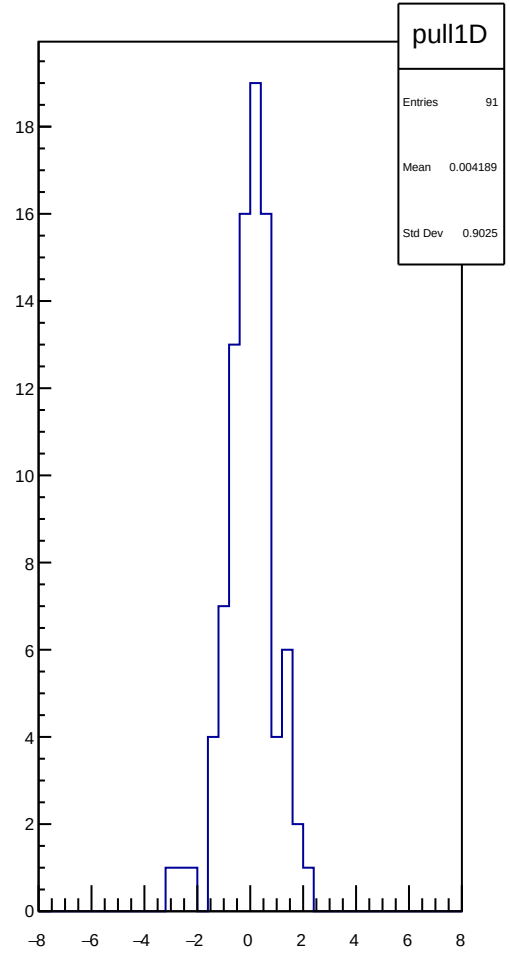

pull1D
Entries 91
Mean 0.002369
Std Dev 0.8912

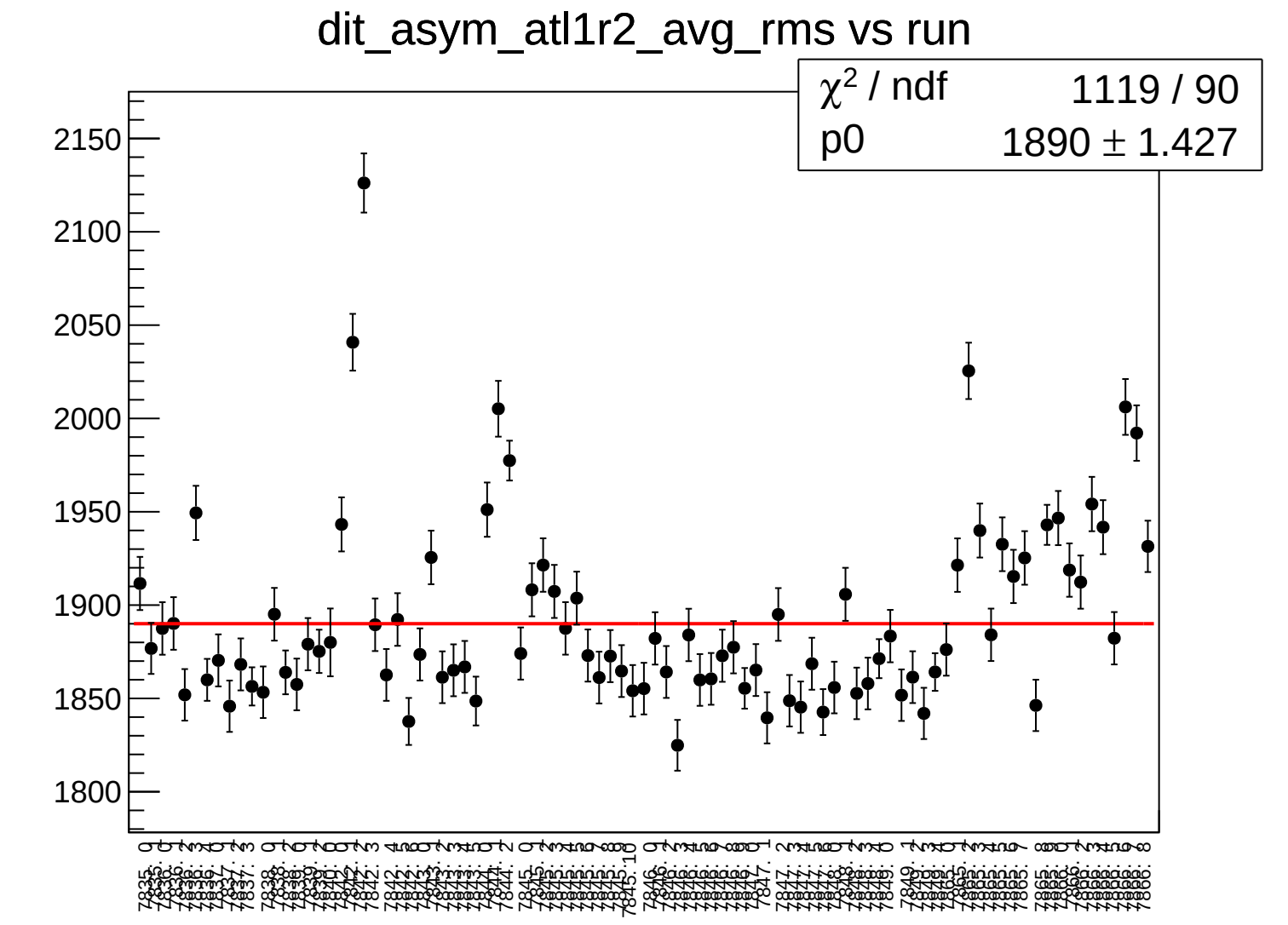

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 941 / 90
p0 1860 ± 1.404
2050
2000
1950
1900
1850
1800
1750

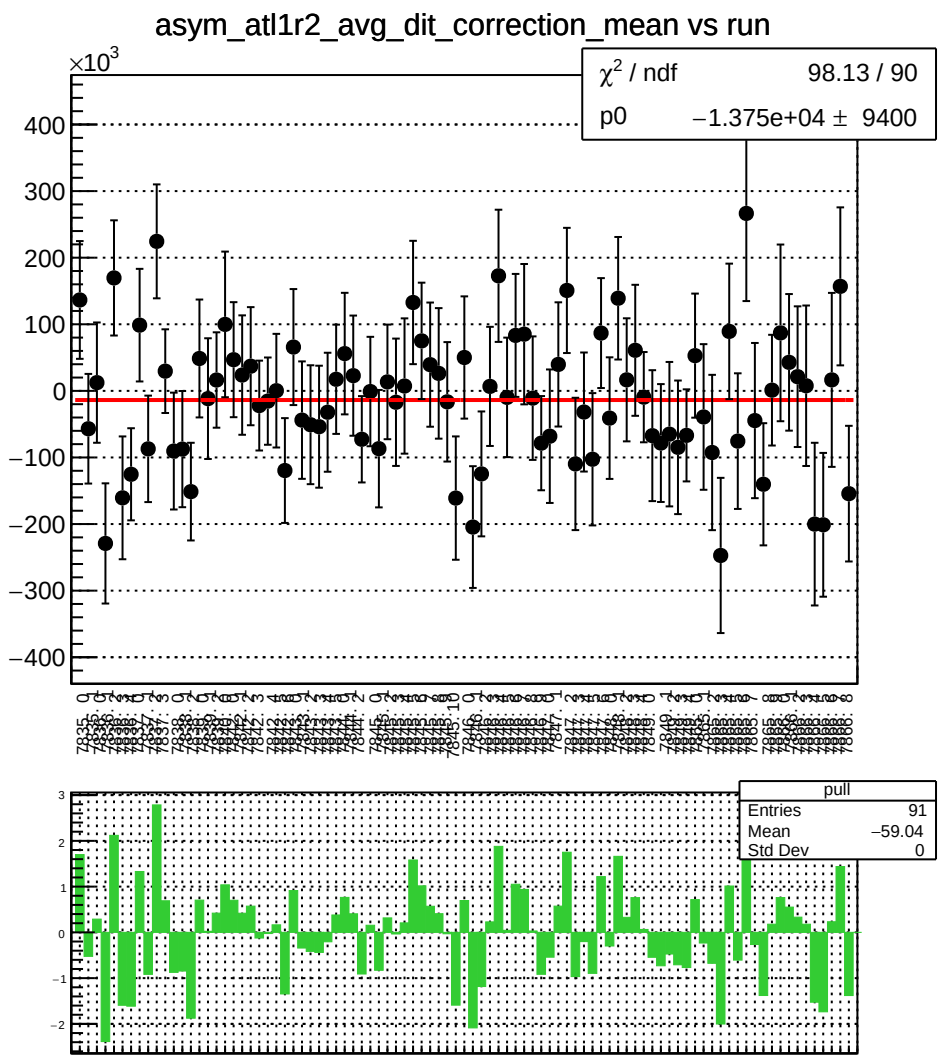

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.7 / 90
p0 −1.402e+04 ± 9332
pull
Entries 91
Mean −37.81
Std Dev 0
pull1D
Entries 91
Mean 0.01812
Std Dev 1.036

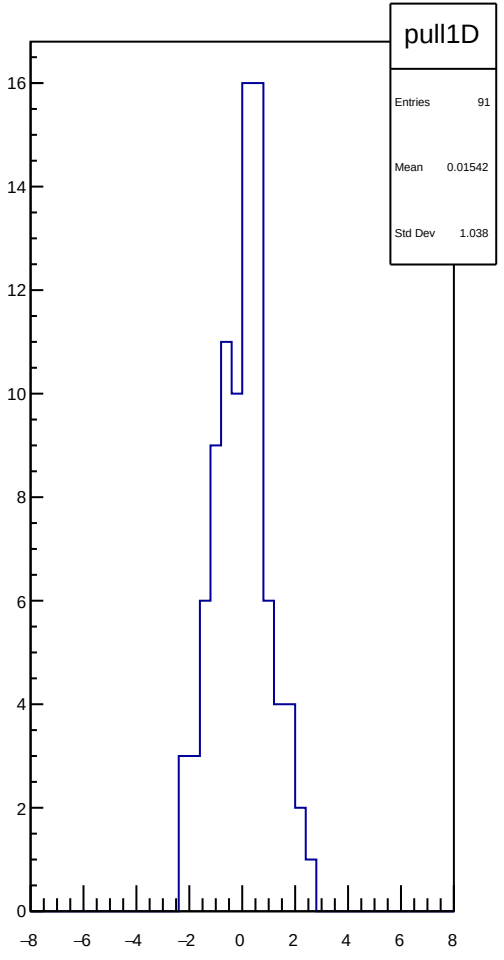

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.41e+04 / 90
p0 8682 ± 6.599
13000
12000
11000
10000
9000
8000
7000
6000

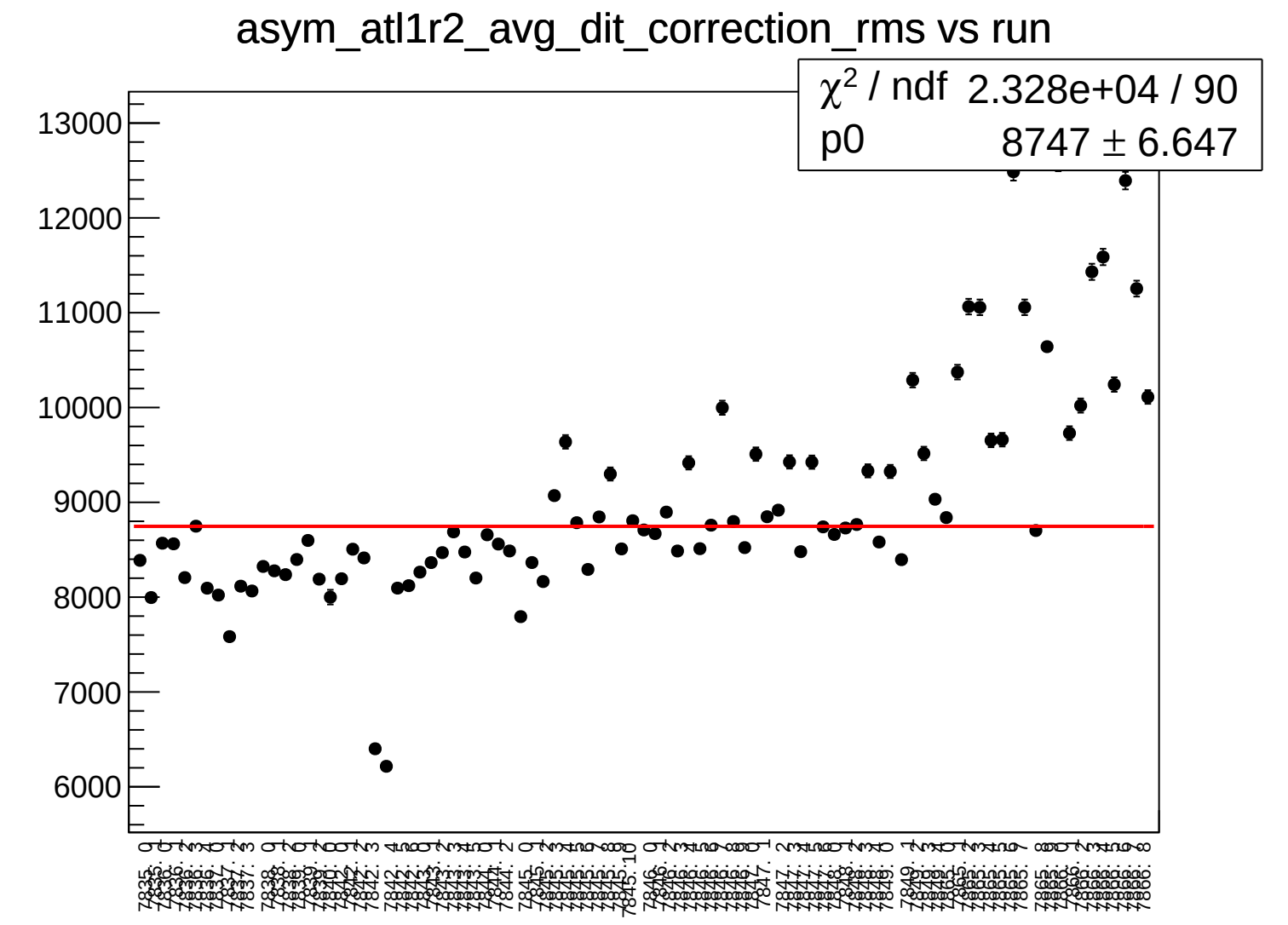

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 74.12 / 90
p0 3534 ± 2018
pull
Entries 91
Mean −23.4
Std Dev 0

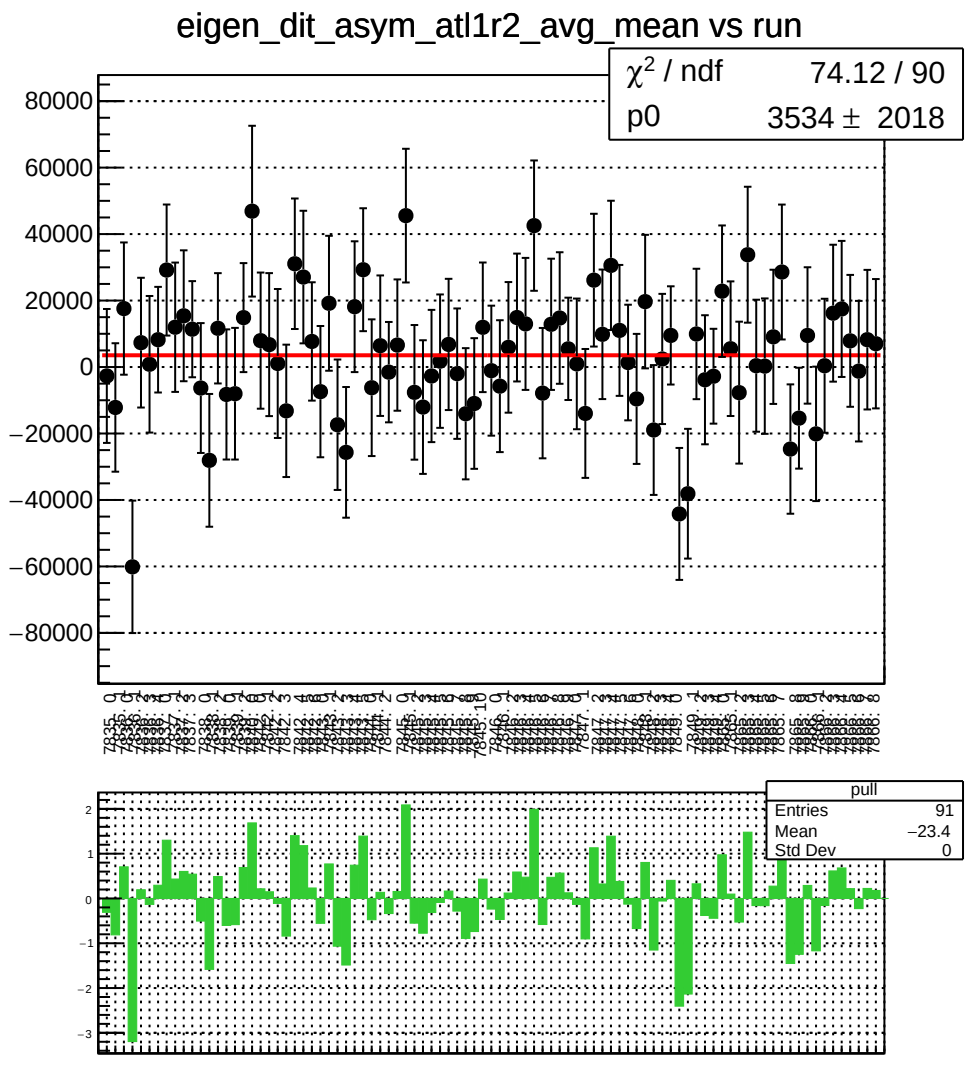

pull1D
Entries 91
Mean 0.004189
Std Dev 0.9025

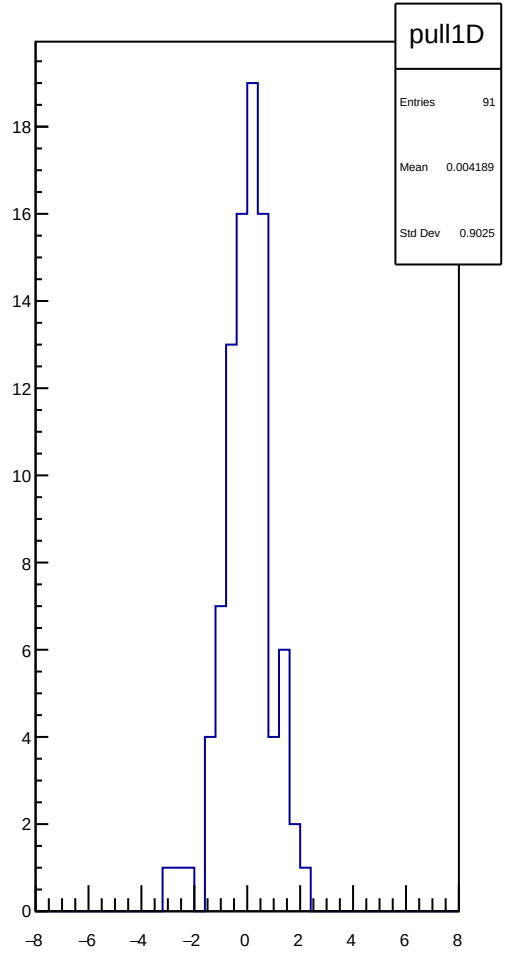

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1119 / 90
p0 1890 ± 1.427
2150
2100
2050
2000
1950
1900
1850
1800

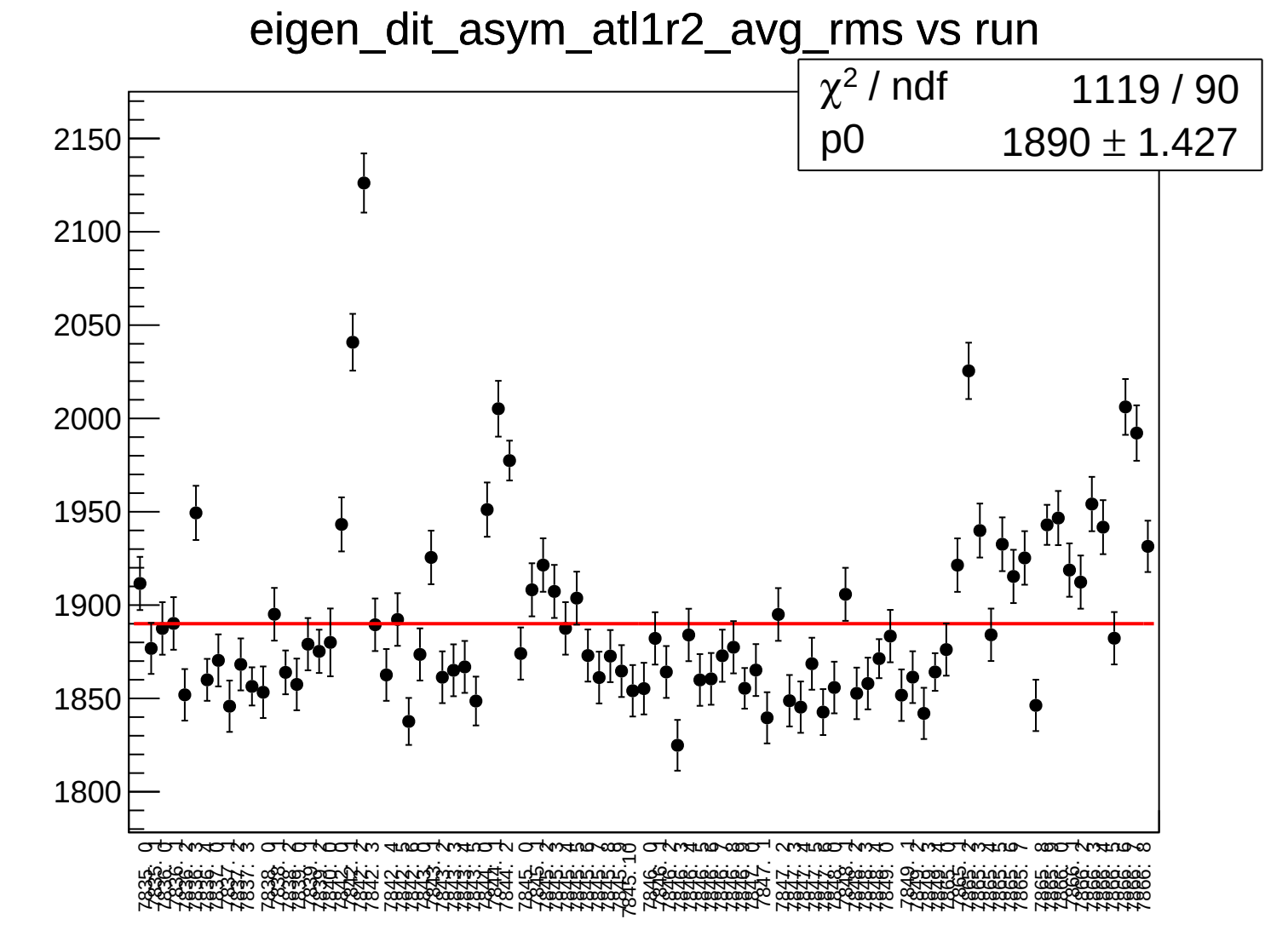

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.13 / 90
p0 −1.375e+04 ± 9400
pull
Entries 91
Mean −59.04
Std Dev 0

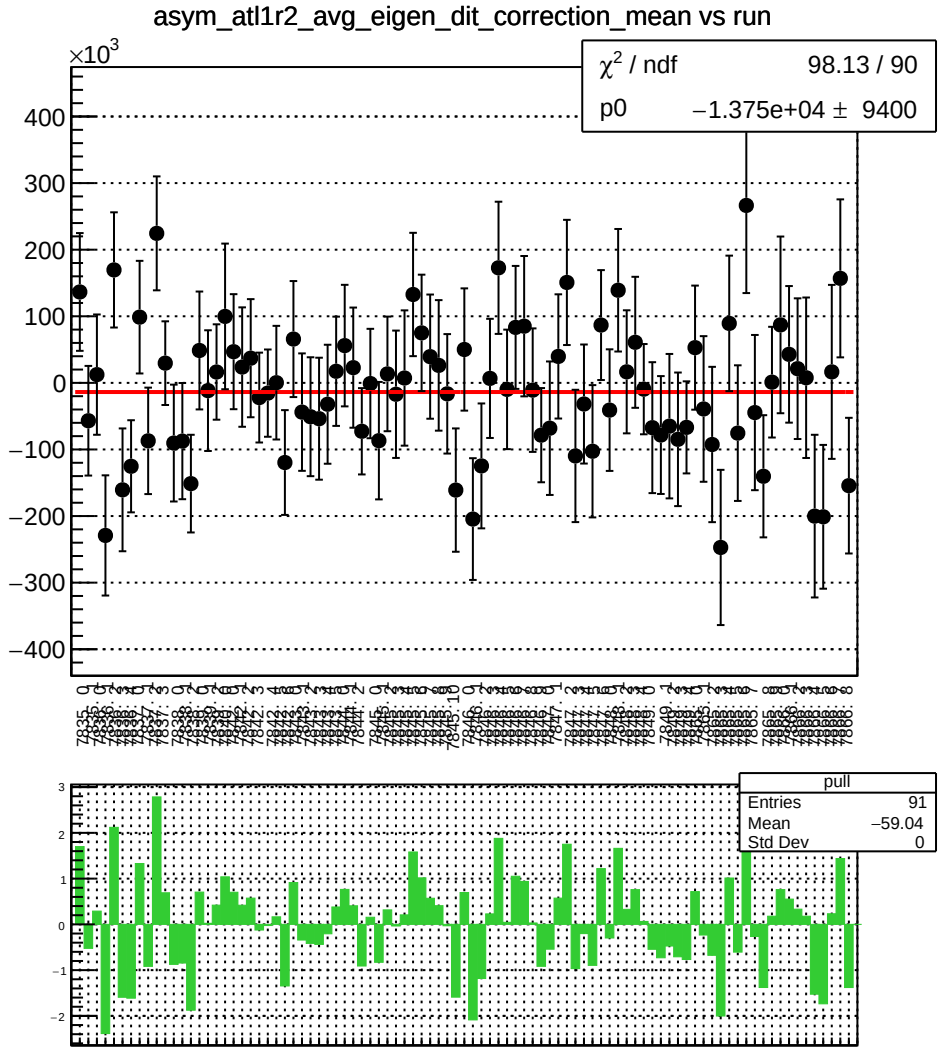

pull1D
Entries 91
Mean 0.01542
Std Dev 1.038

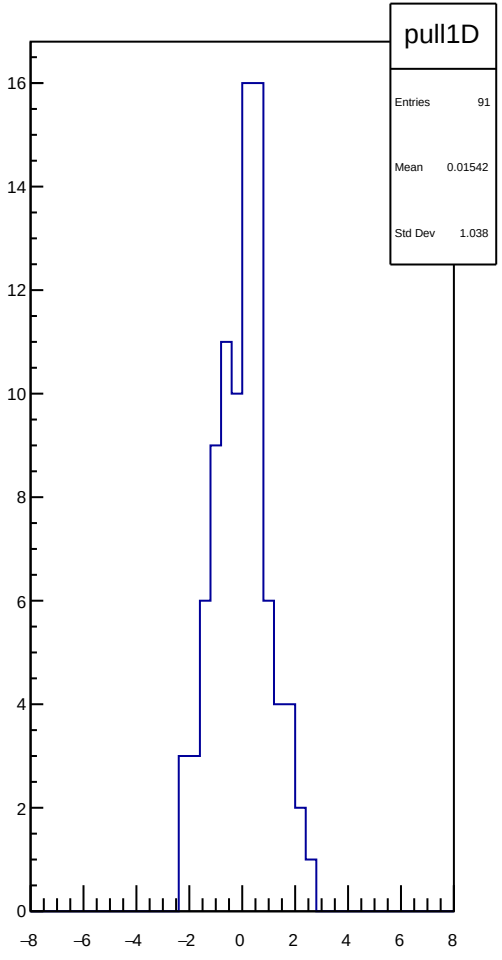

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 90
p0 8747 ± 6.647
13000
12000
11000
10000
9000
8000
7000
6000

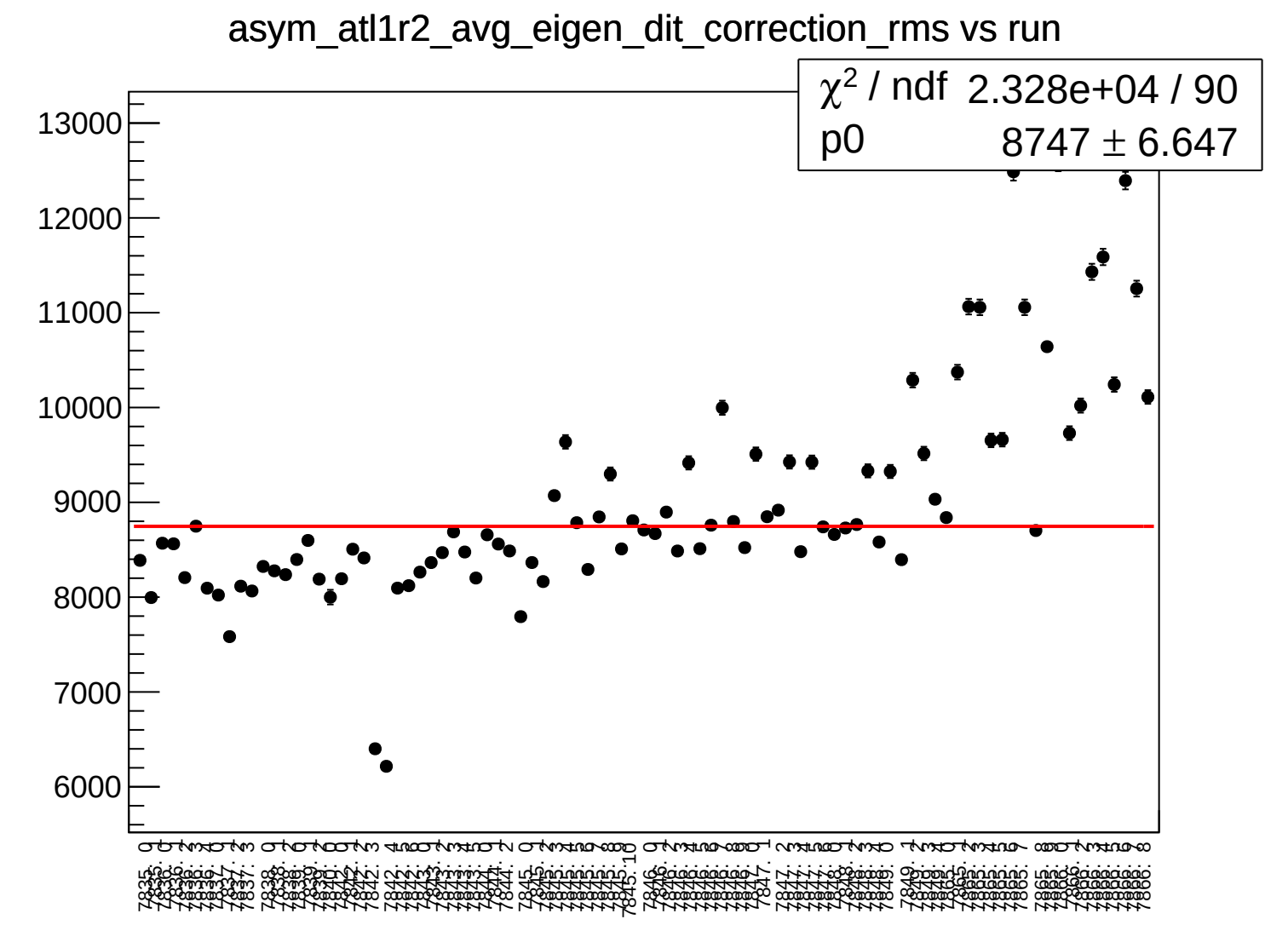

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 74.12 / 90
p0 3534 ± 2018
pull
Entries 91
Mean −23.4
Std Dev 0

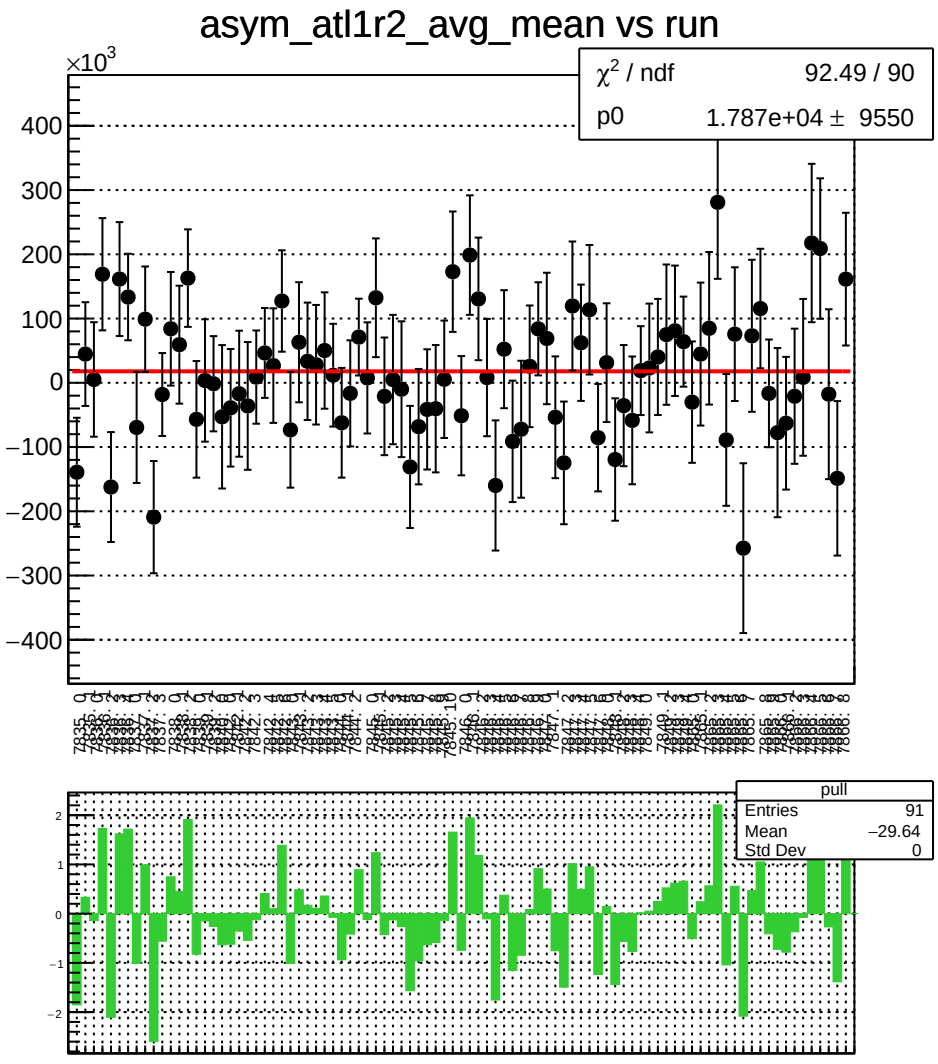

pull1D
Entries 91
Mean 0.004189
Std Dev 0.9025

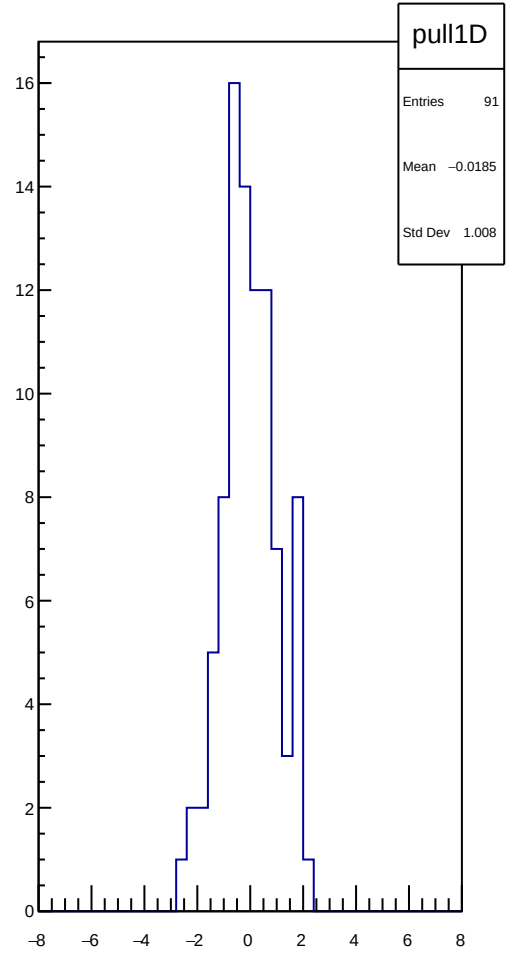

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1119 / 90
p0 1890 ± 1.427
2150
2100
2050
2000
1950
1900
1850
1800

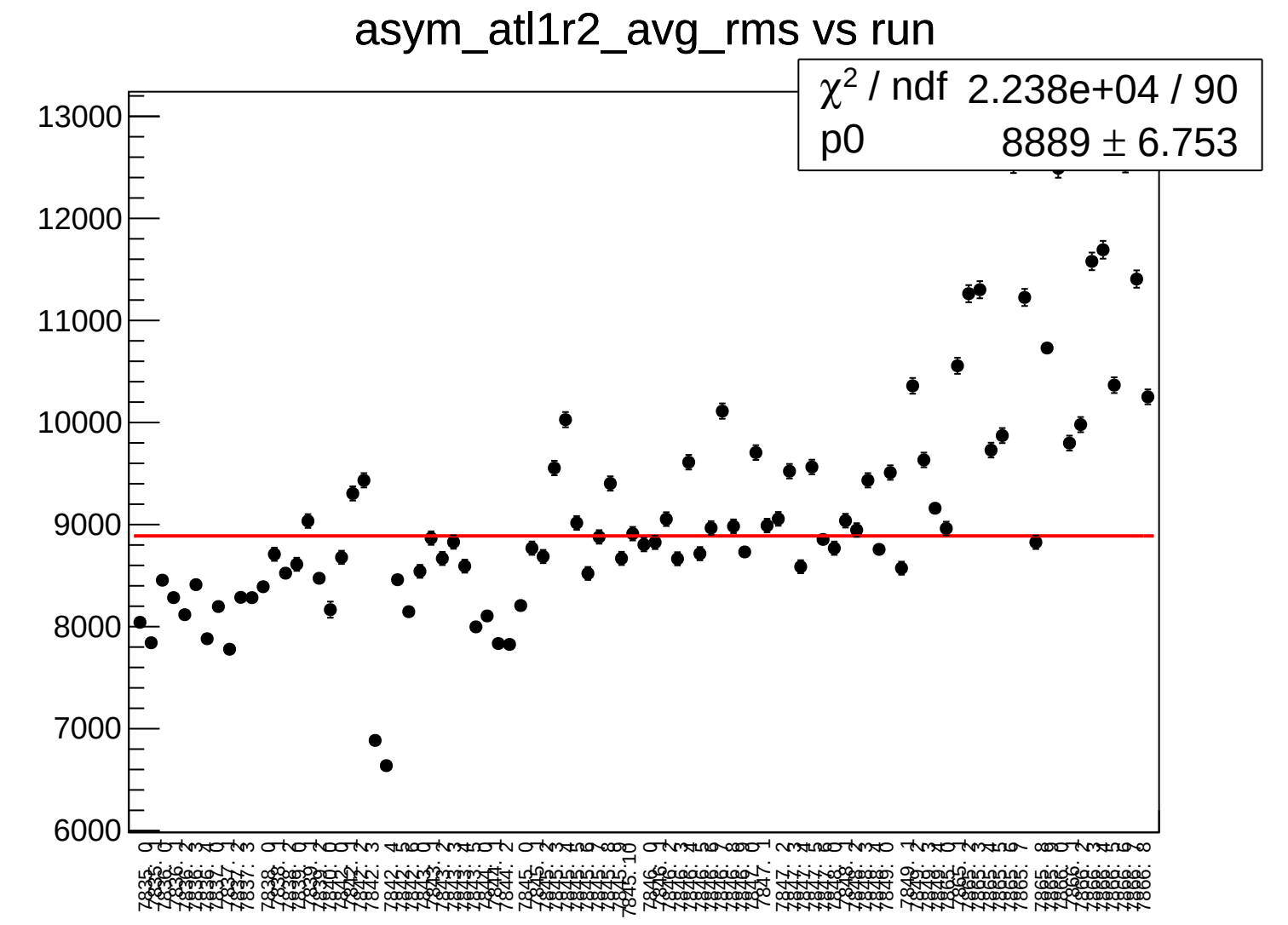

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.13 / 90
p0 −1.375e+04 ± 9400
pull
Entries 91
Mean −59.04
Std Dev 0

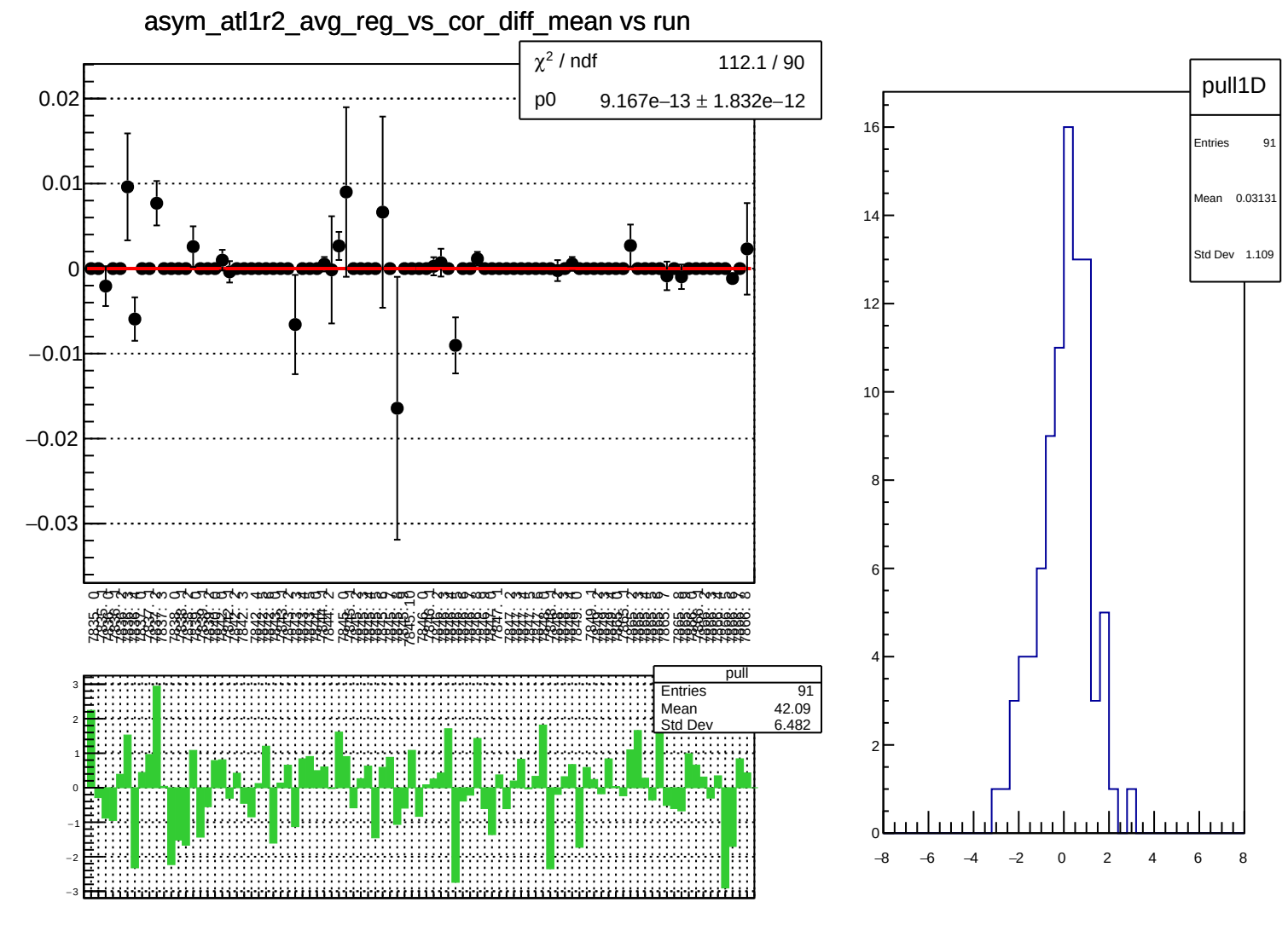

pull1D
Entries 91
Mean 0.01542
Std Dev 1.038

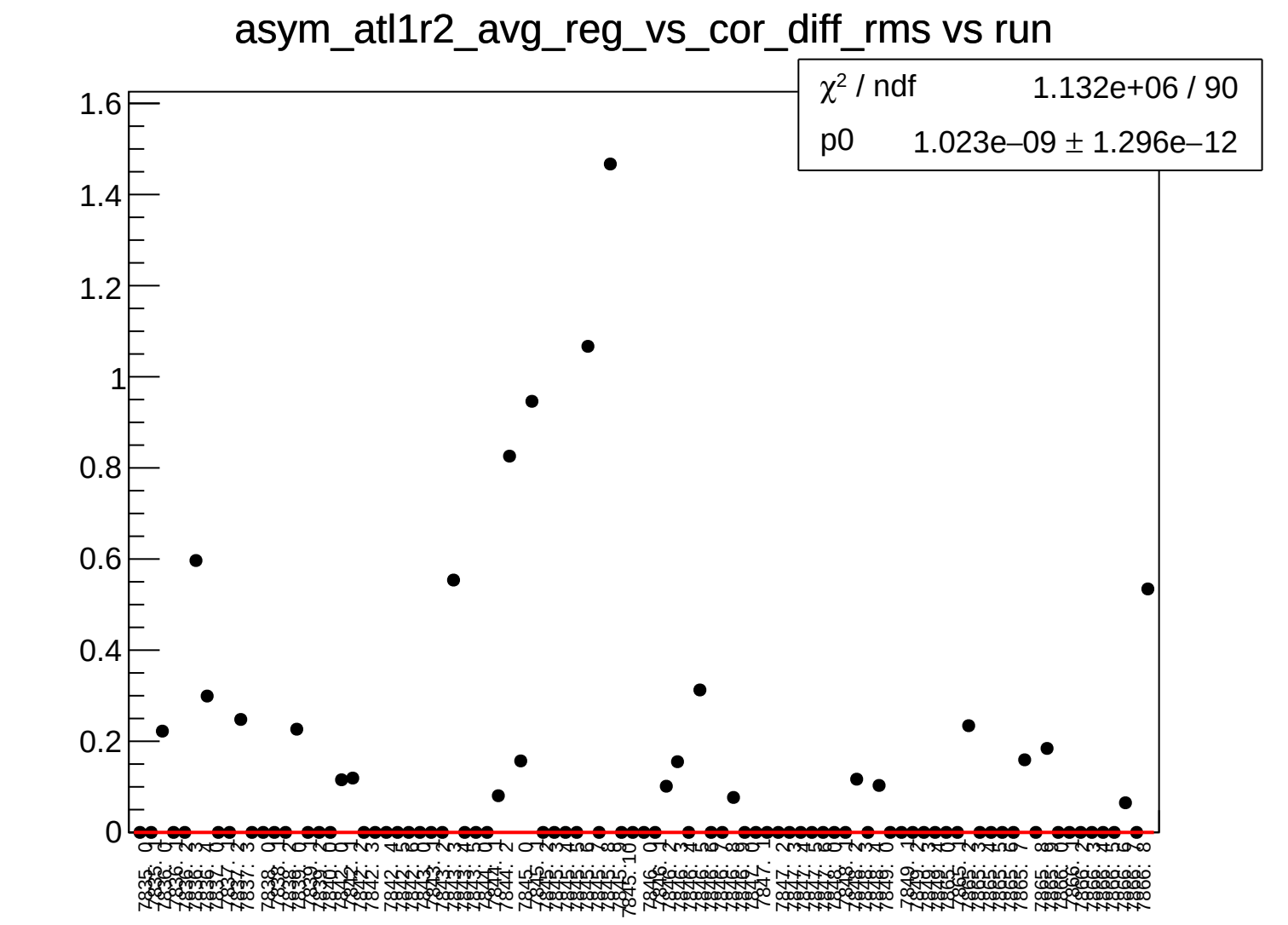

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 90
p0 8747 ± 6.647
13000
12000
11000
10000
9000
8000
7000
6000

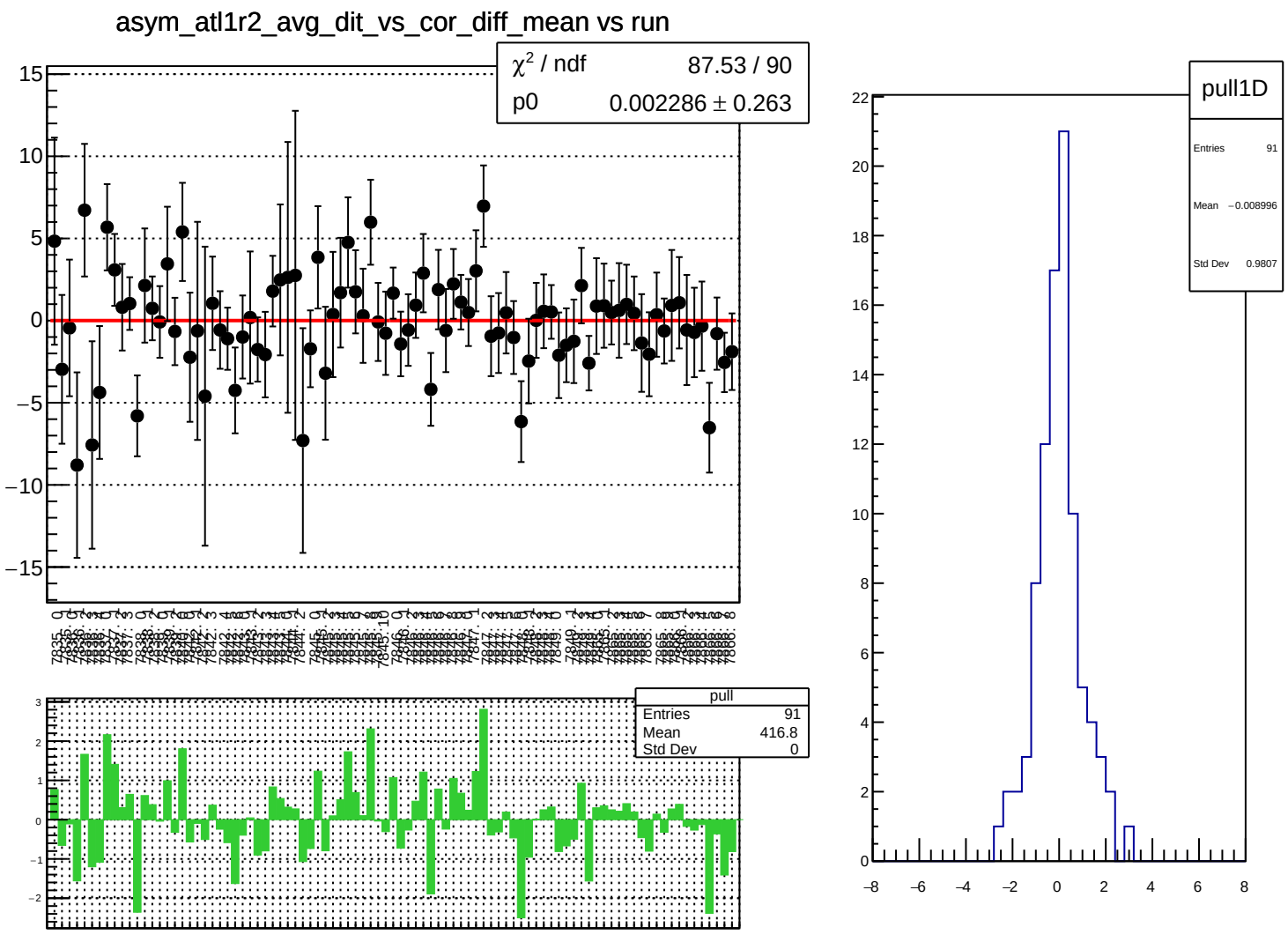

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 92.49 / 90
p0 1.787e+04 ± 9550
pull
Entries 91
Mean −29.64
Std Dev 0

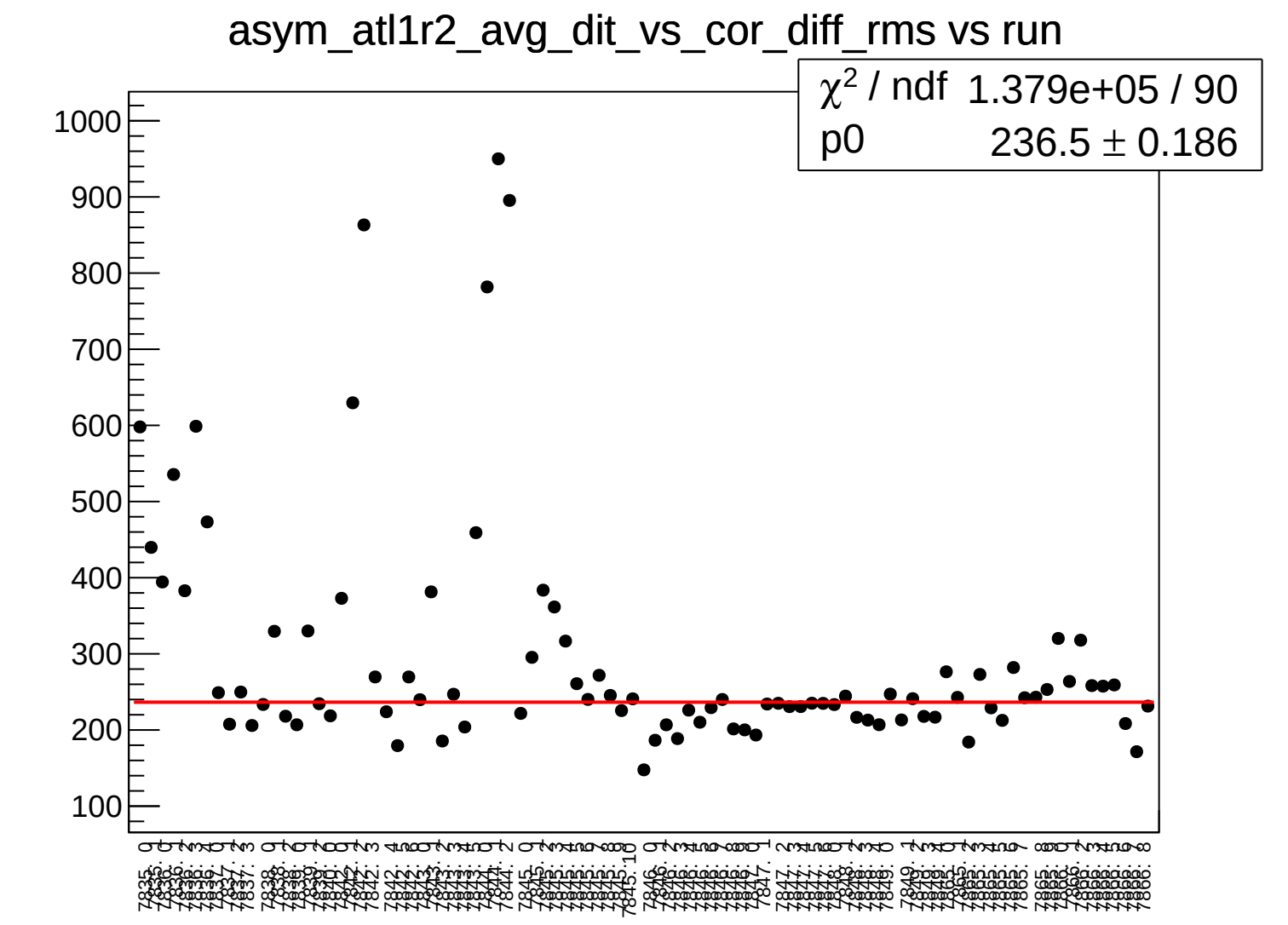

pull1D
Entries 91
Mean −0.0185
Std Dev 1.008

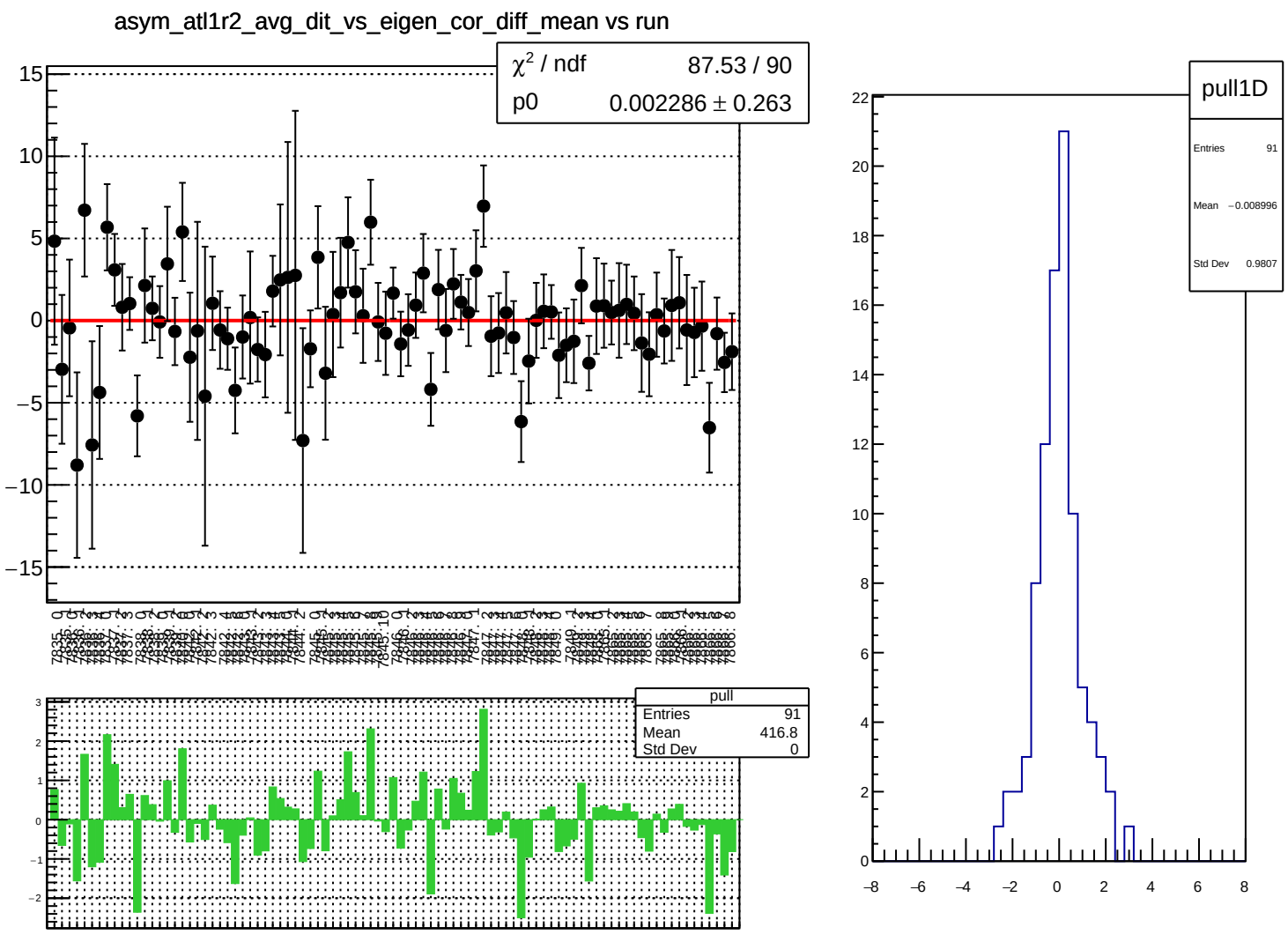

asym_atl1r2_avg_rms vs run
χ² / ndf 2.238e+04 / 90
p0 8889 ± 6.753
13000
12000
11000
10000
9000
8000
7000
6000

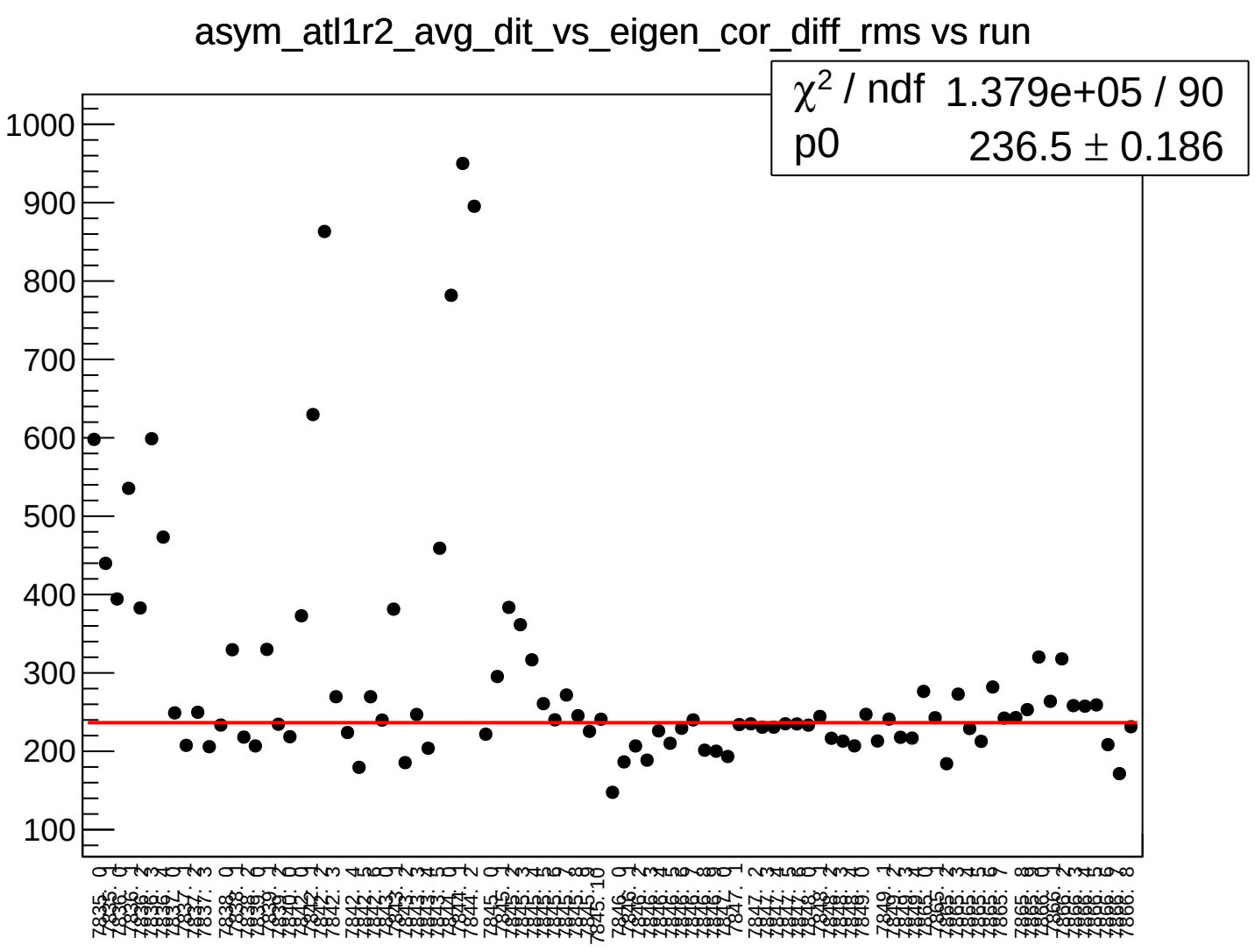

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 90
p0 9.167e−13 ± 1.832e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 42.09
Std Dev 6.482
pull1D
Entries 91
Mean 0.03131
Std Dev 1.109

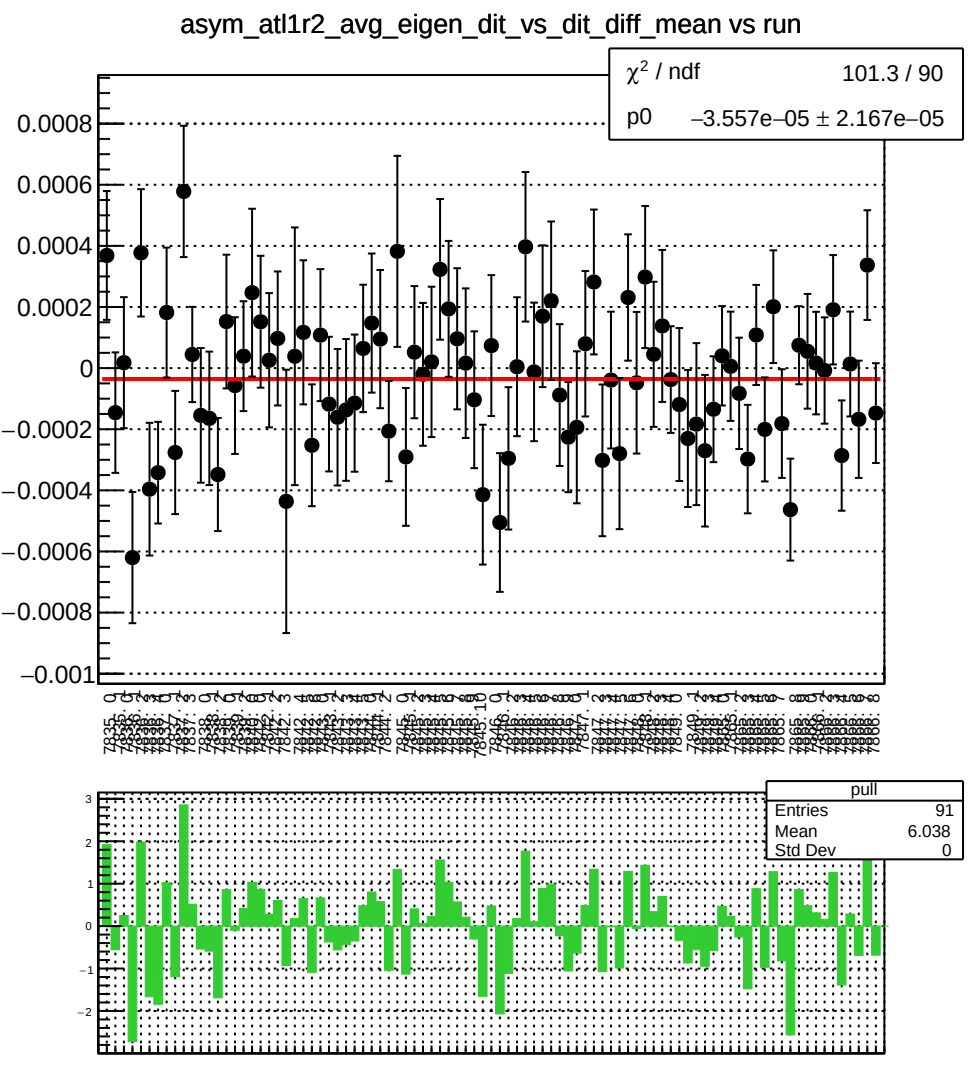

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.132e+06 / 90
p0 1.023e−09 ± 1.296e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

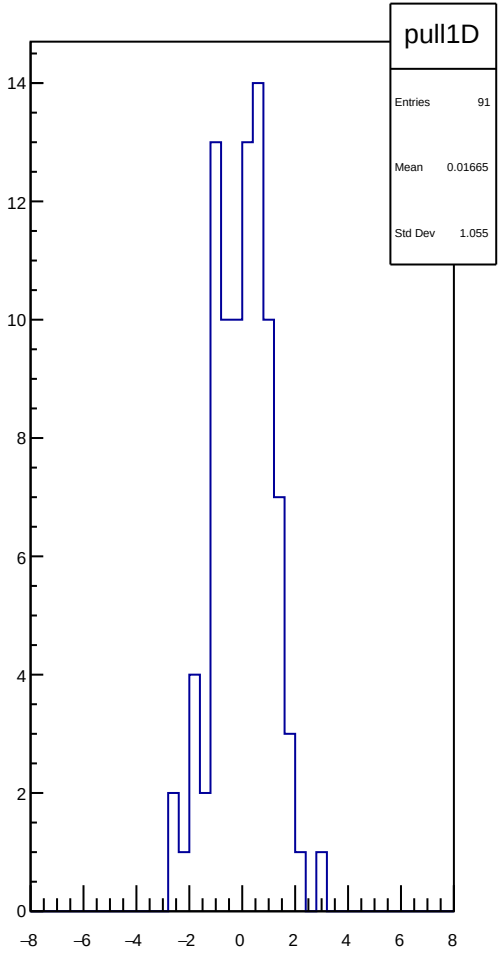

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.53 / 90
p0 0.002286 ± 0.263
pull
Entries 91
Mean 416.8
Std Dev 0
pull1D
Entries 91
Mean −0.008996
Std Dev 0.9807

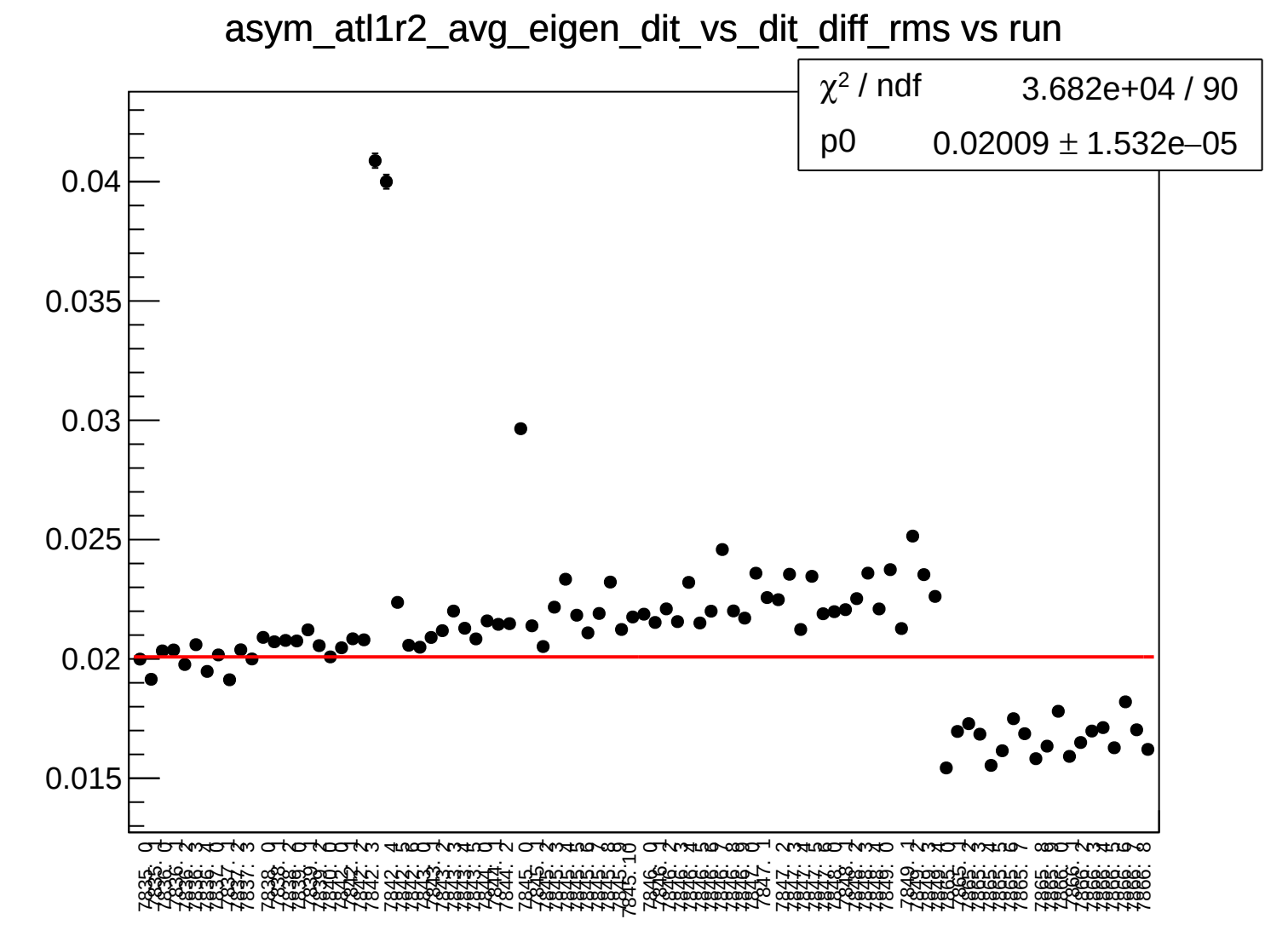

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 236.5 ± 0.186
1000
900
800
700
600
500
400
300
200
100

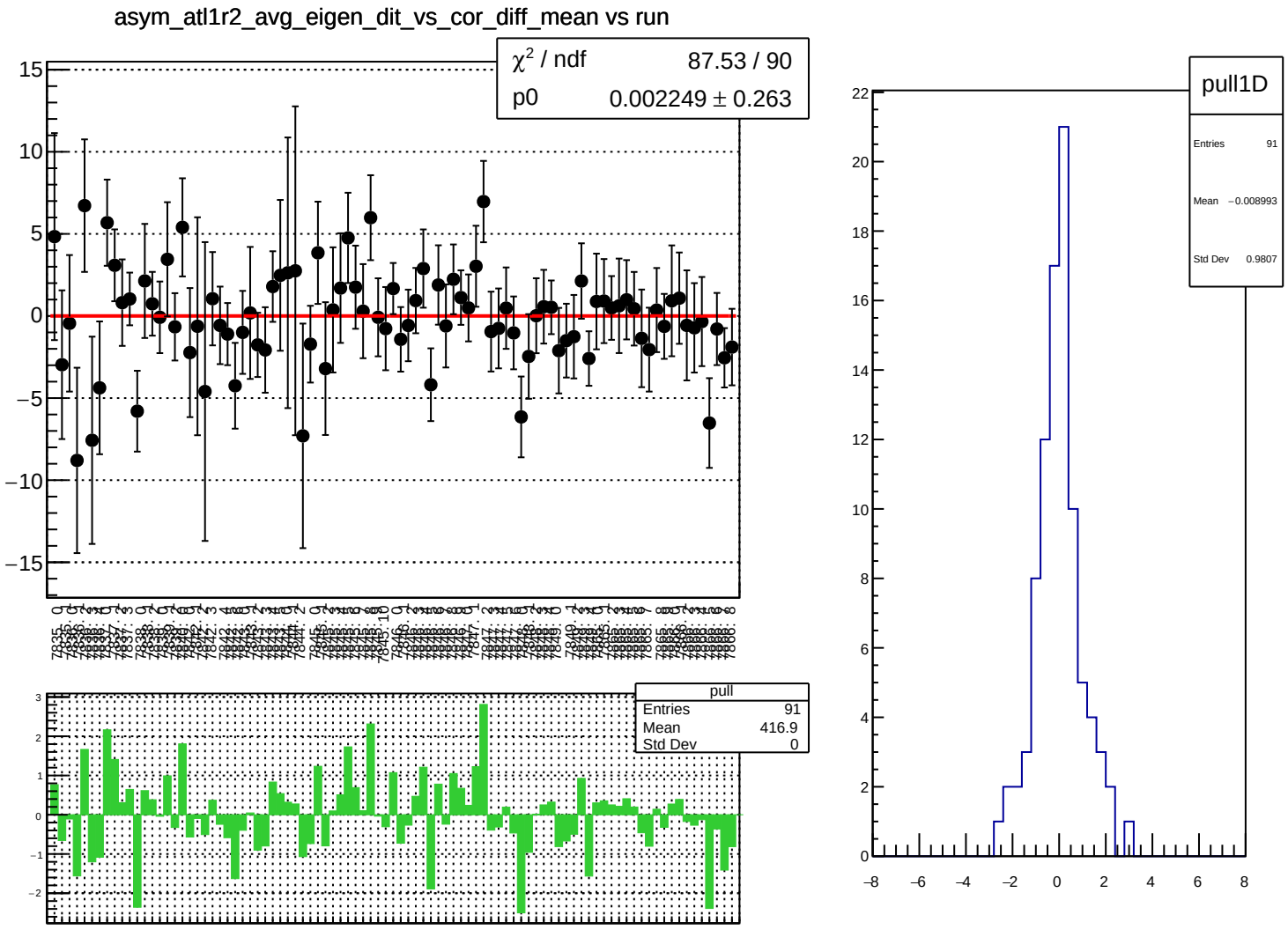

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.53 / 90
p0 0.002286 ± 0.263
pull
Entries 91
Mean 416.8
Std Dev 0
pull1D
Entries 91
Mean −0.008996
Std Dev 0.9807

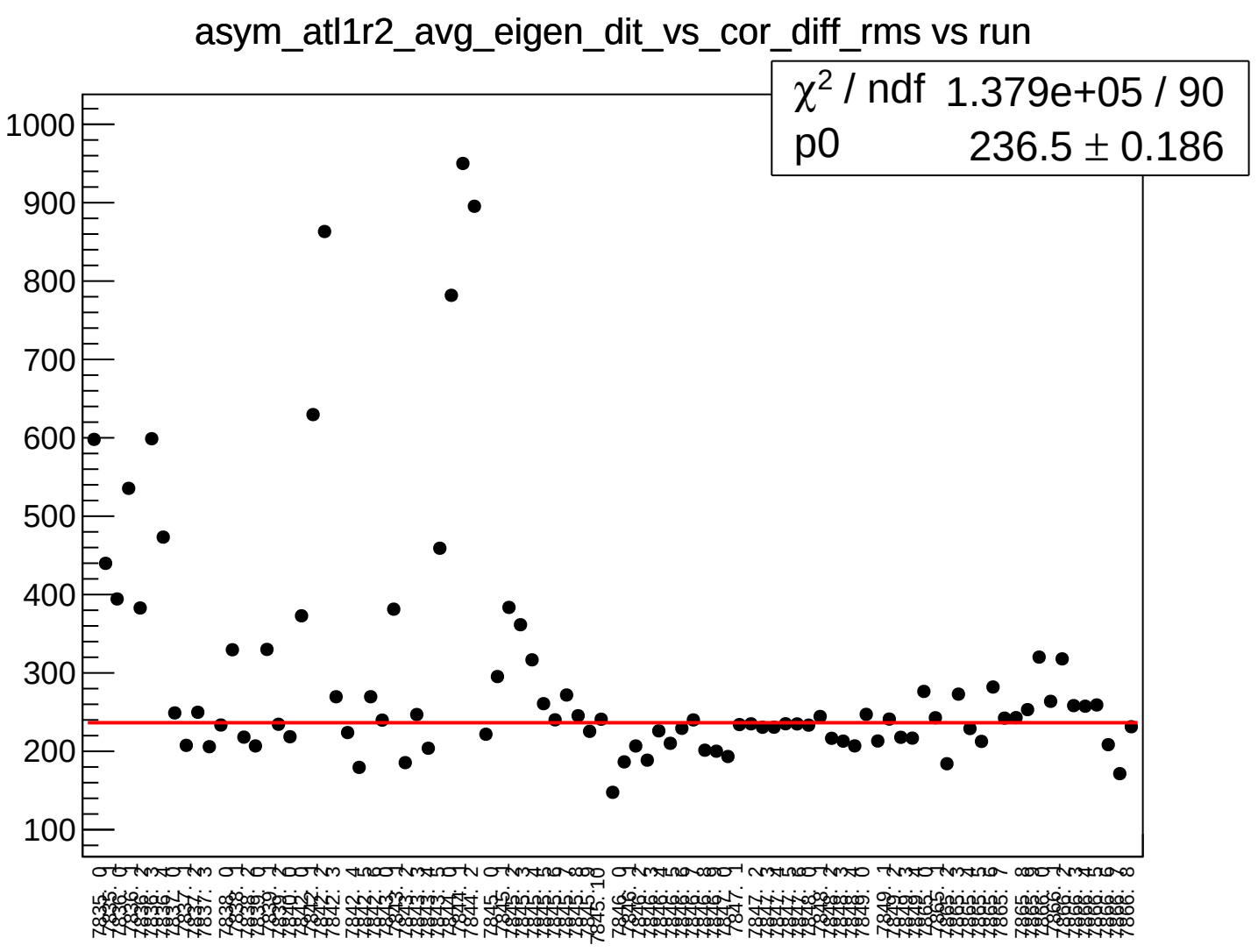

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 236.5 ± 0.186
1000
900
800
700
600
500
400
300
200
100

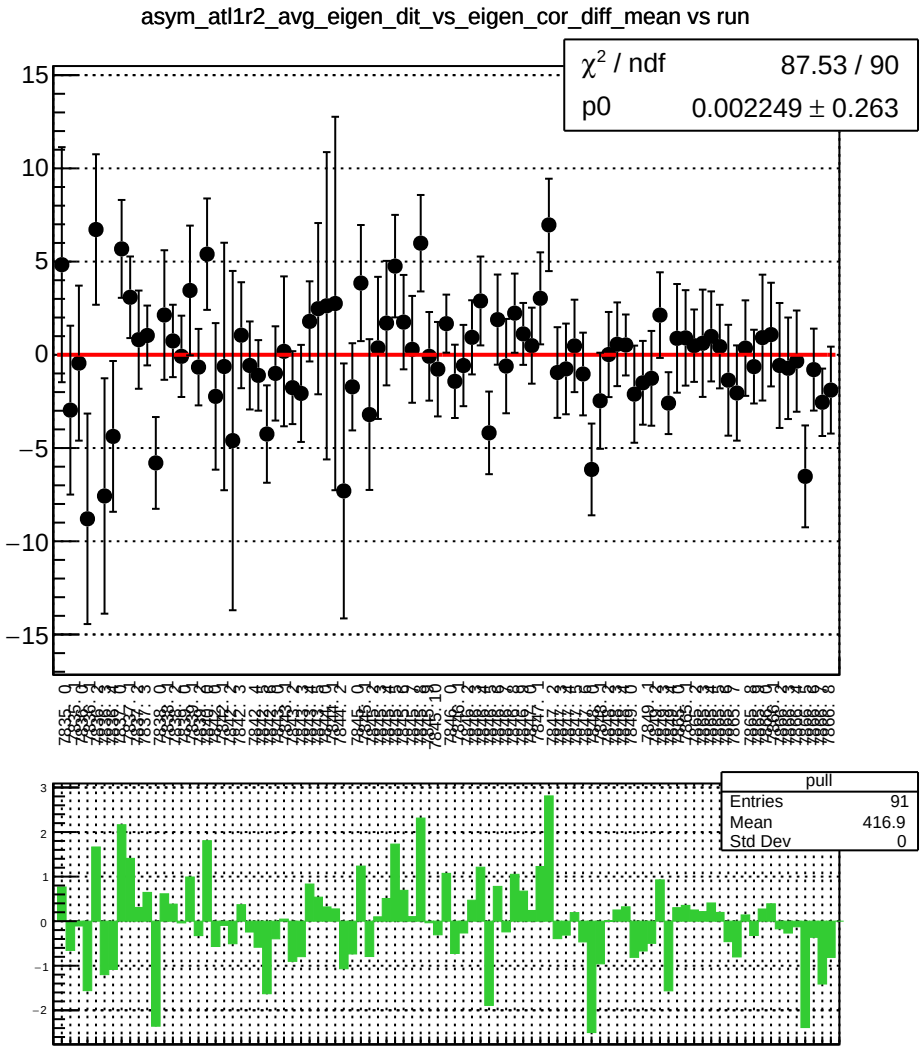

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101.3 / 90
p0 −3.557e−05 ± 2.167e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 91
Mean 6.038
Std Dev 0
3
2
1
0
−1
−2

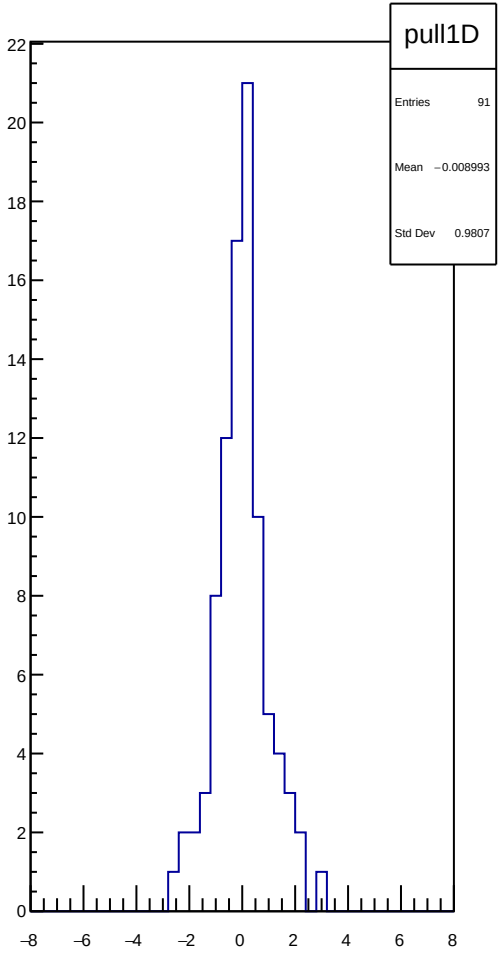

pull1D
Entries 91
Mean 0.01665
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

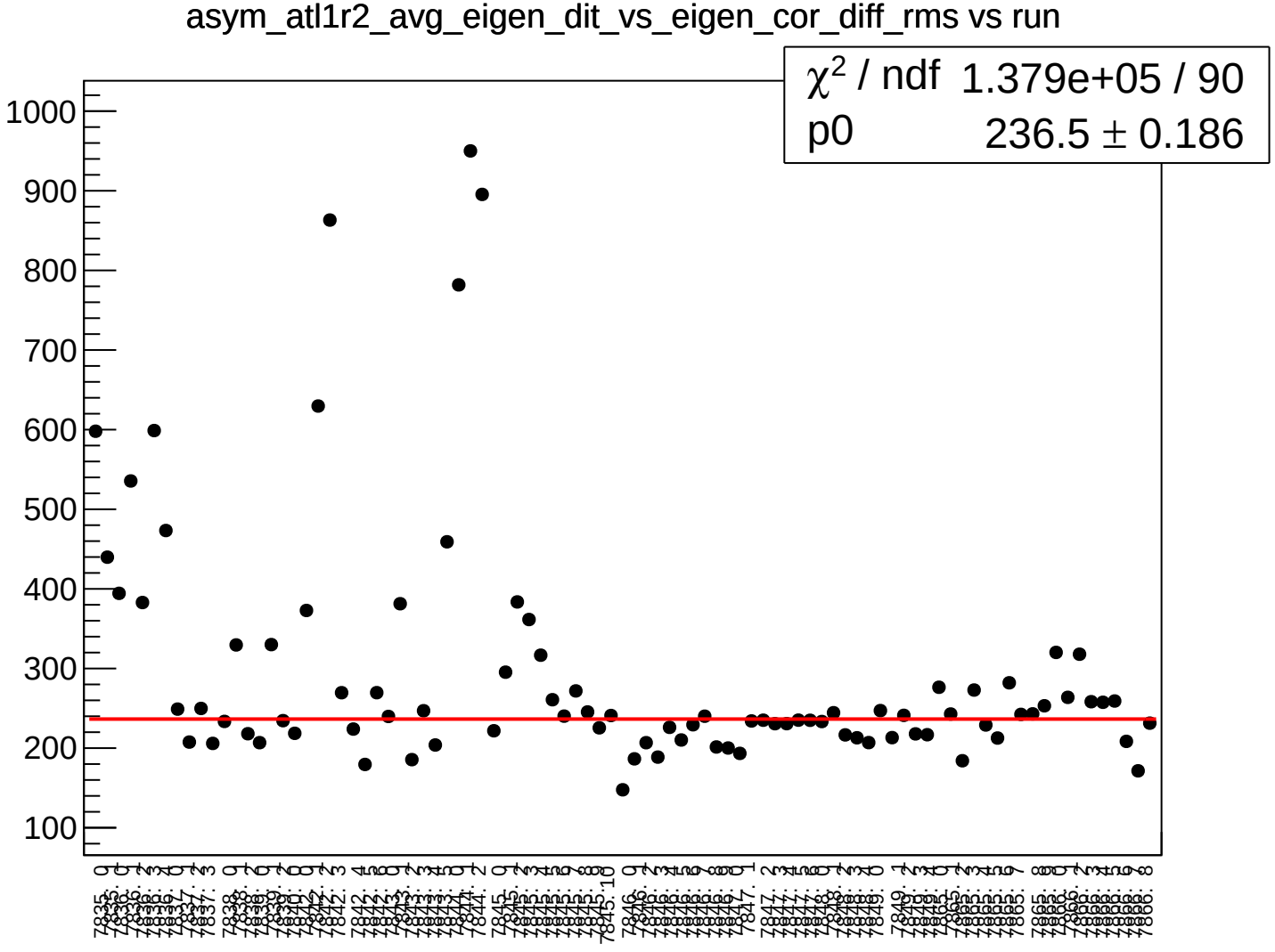

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.682e+04 / 90
p0 0.02009 ± 1.532e−05
0.04
0.035
0.03
0.025
0.02
0.015

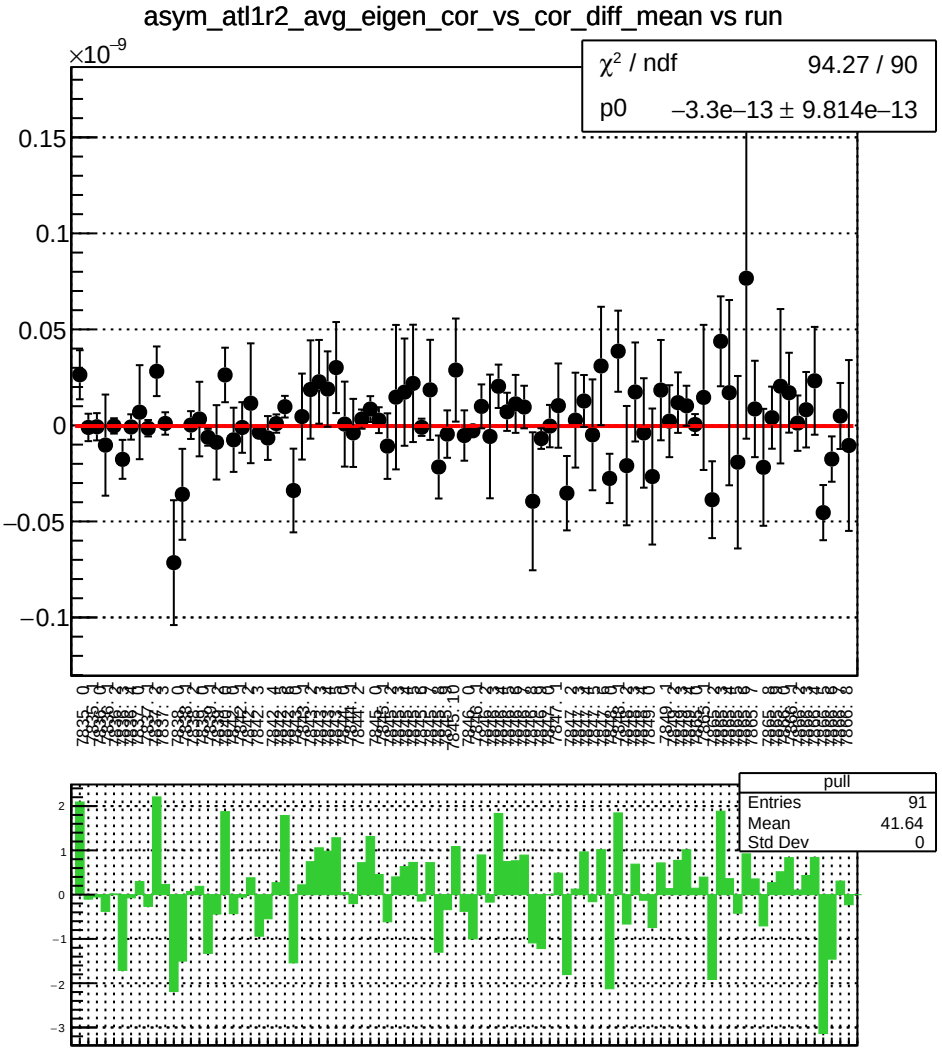

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.53 / 90
p0 0.002249 ± 0.263
pull
Entries 91
Mean 416.9
Std Dev 0
pull1D
Entries 91
Mean −0.008993
Std Dev 0.9807

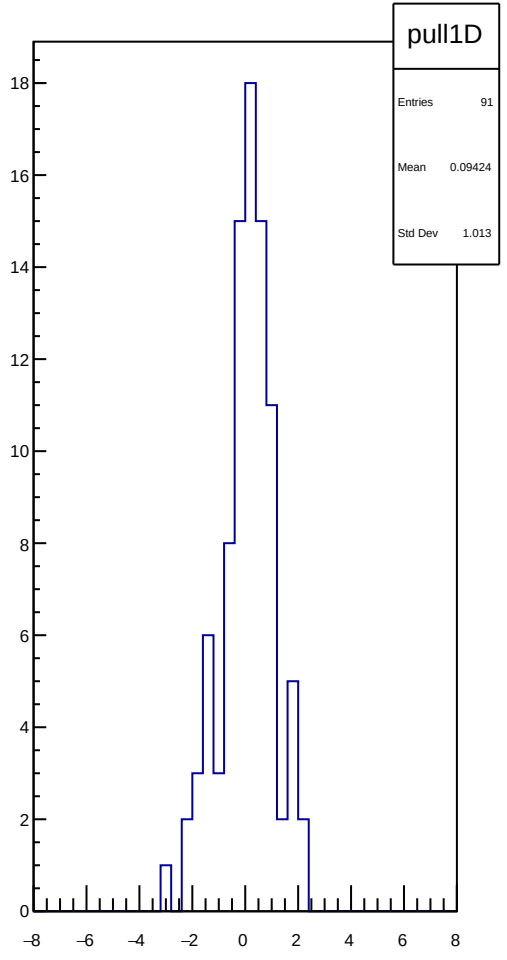

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 236.5 ± 0.186
1000
900
800
700
600
500
400
300
200
100

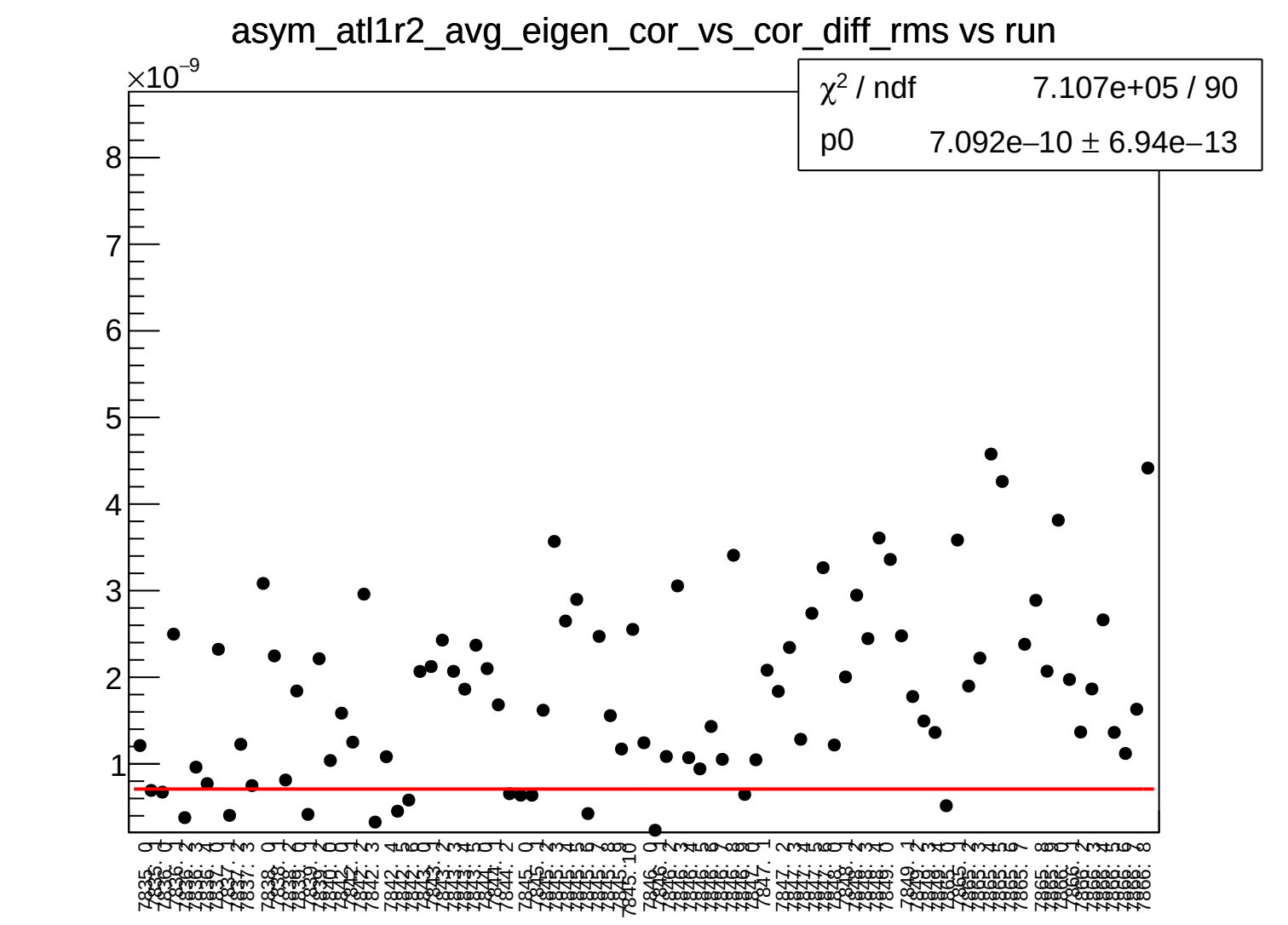

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.53 / 90
p0 0.002249 ± 0.263
pull
Entries 91
Mean 416.9
Std Dev 0

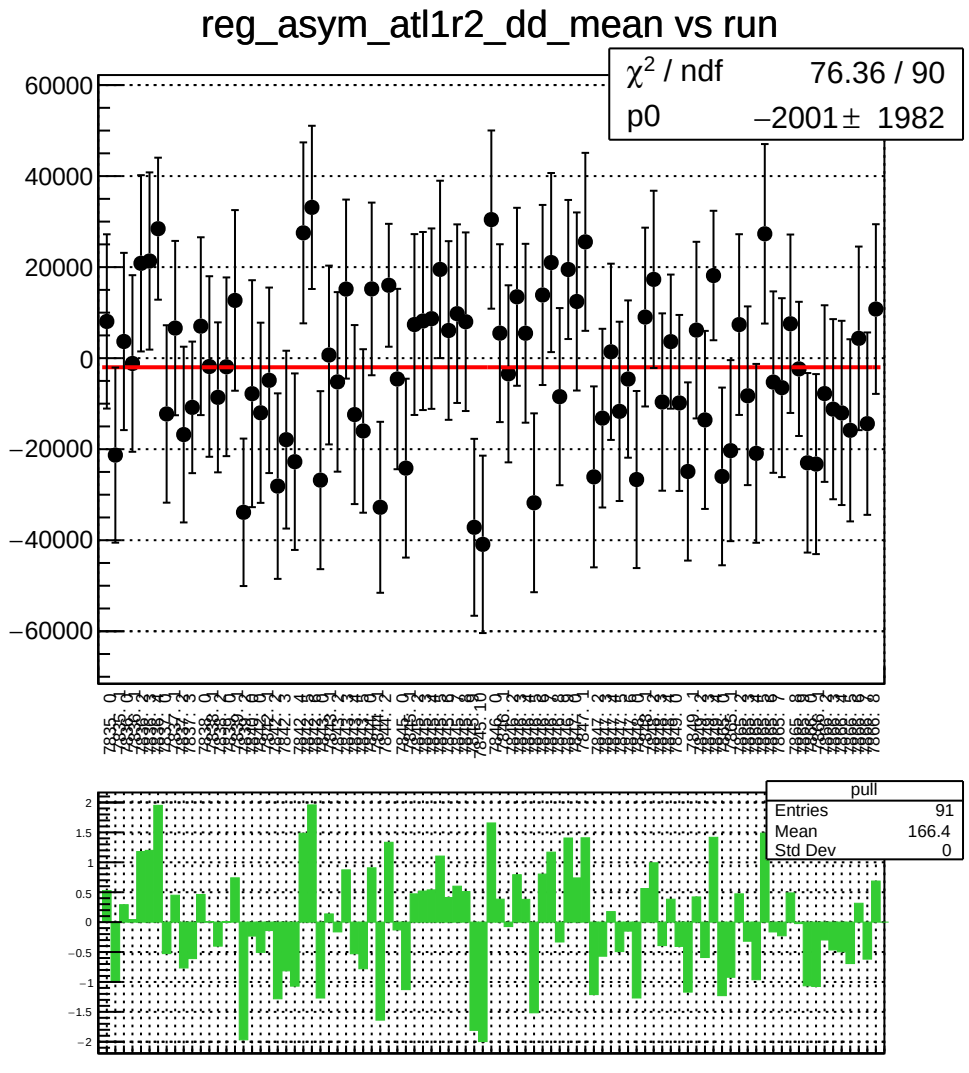

pull1D
Entries 91
Mean −0.008993
Std Dev 0.9807

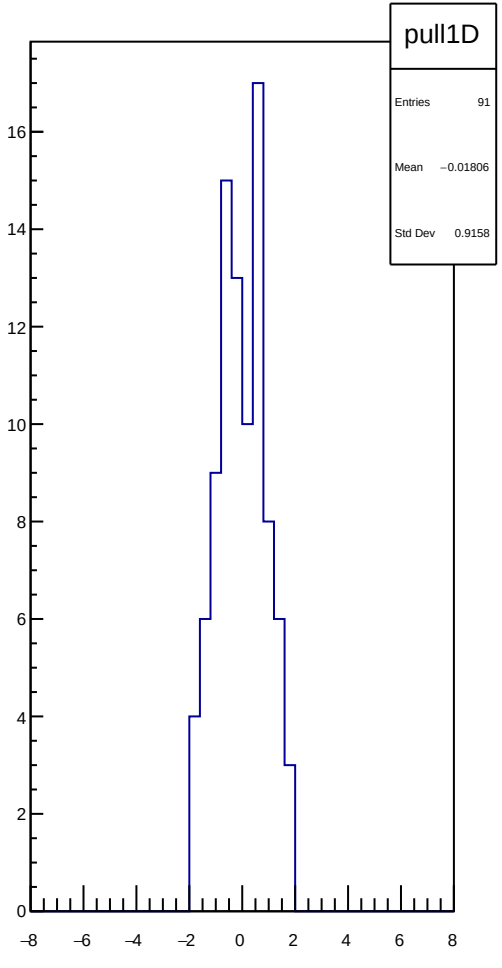

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 236.5 ± 0.186
1000
900
800
700
600
500
400
300
200
100

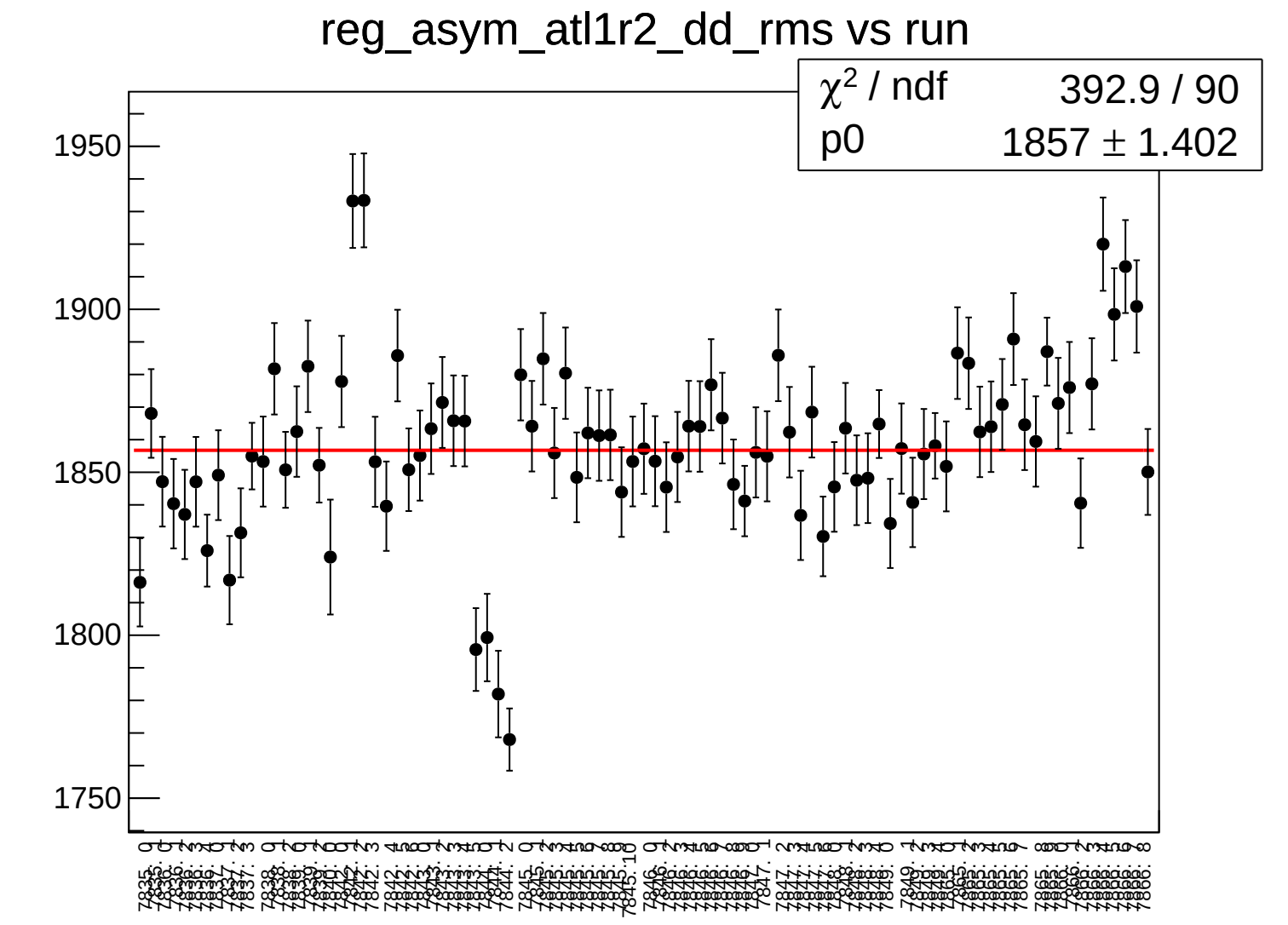

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 94.27 / 90
p0 −3.3e−13 ± 9.814e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 41.64
Std Dev 0
2
1
0
−1
−2
−3

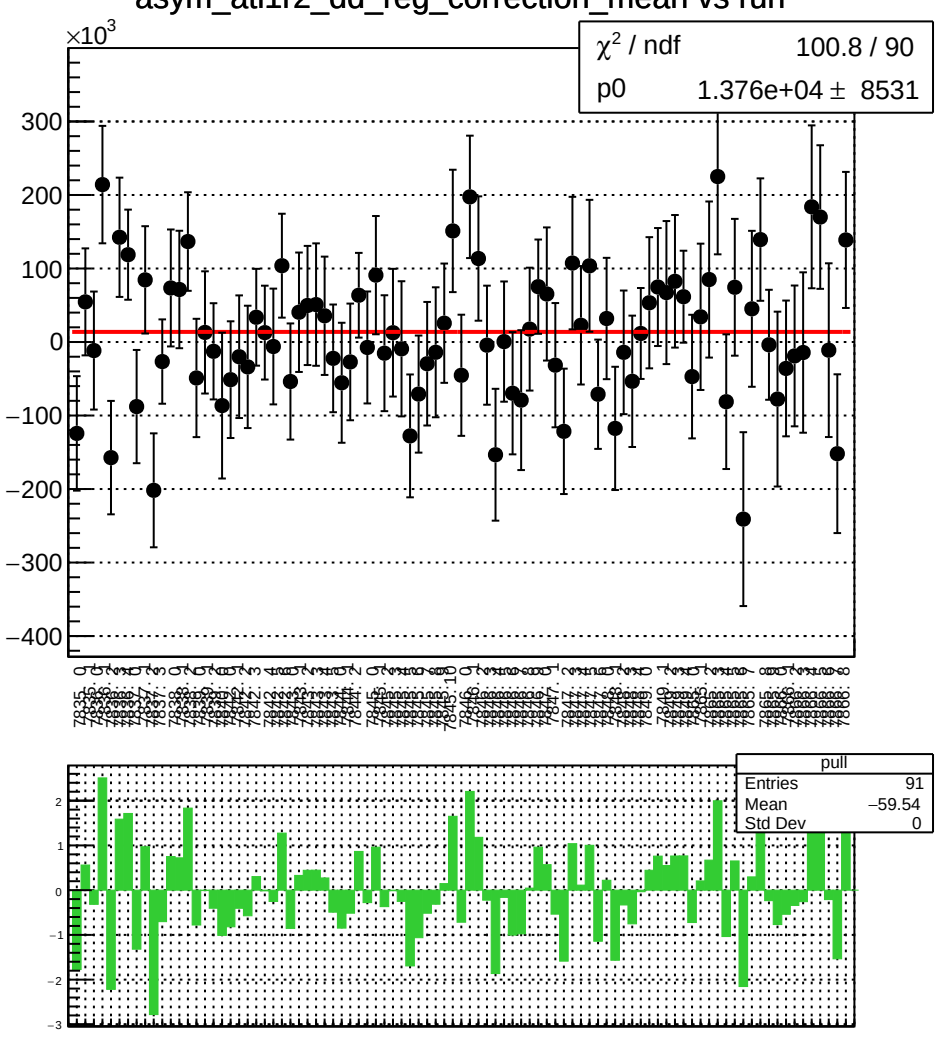

pull1D
Entries 91
Mean 0.09424
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

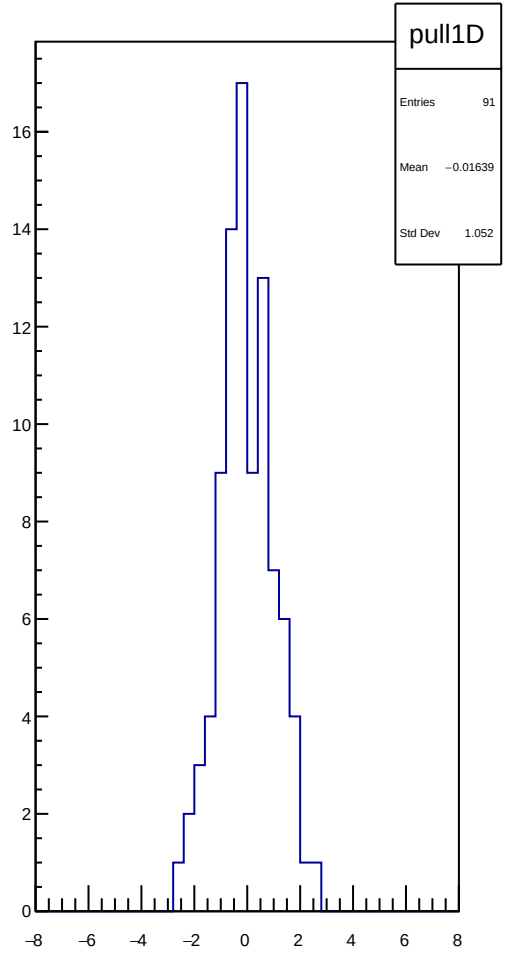

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.107e+05 / 90
p0 7.092e−10 ± 6.94e−13
8
7
6
5
4
3
2
1

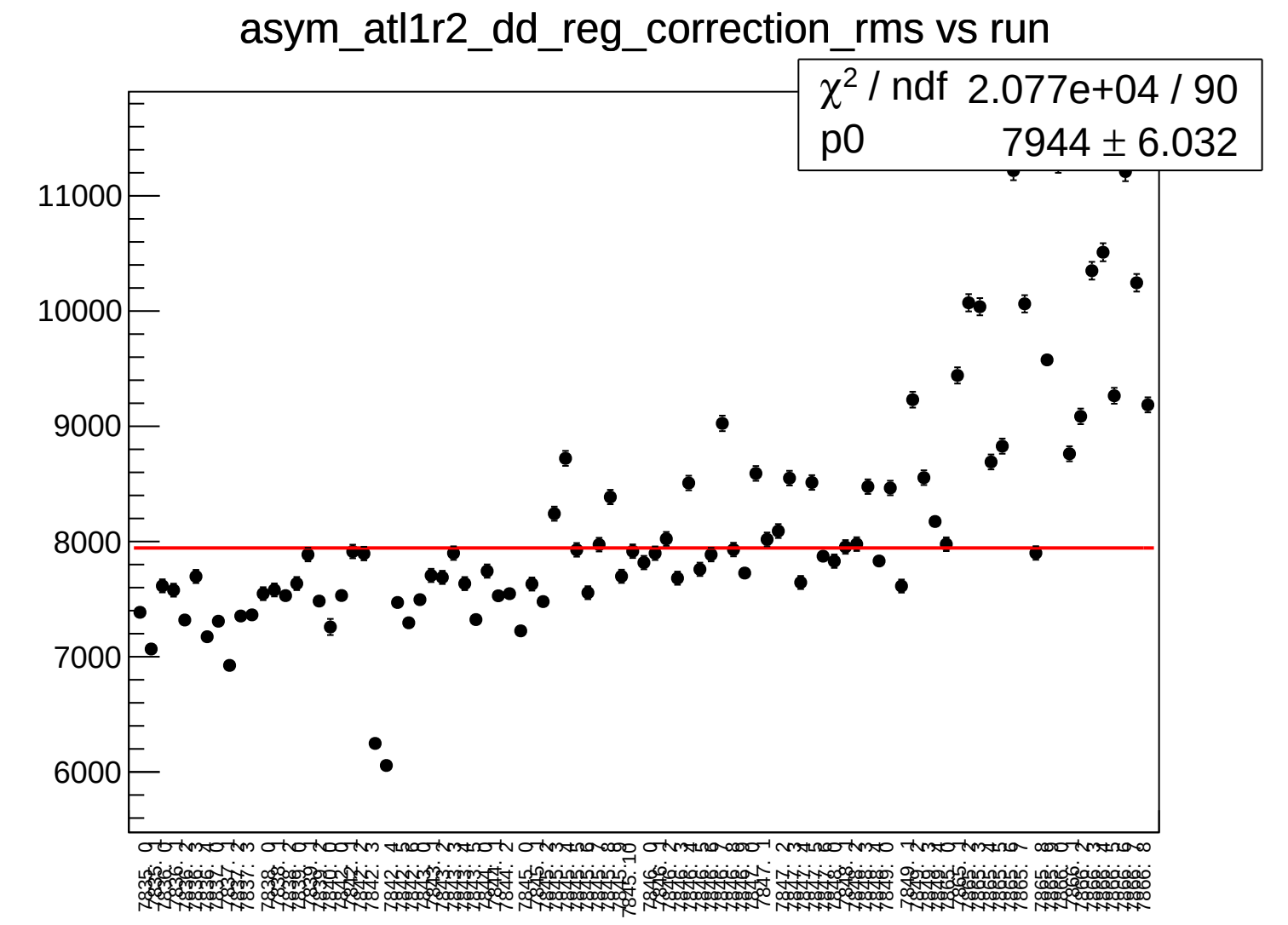

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 76.36 / 90
p0 −2001 ± 1982
pull
Entries 91
Mean 166.4
Std Dev 0

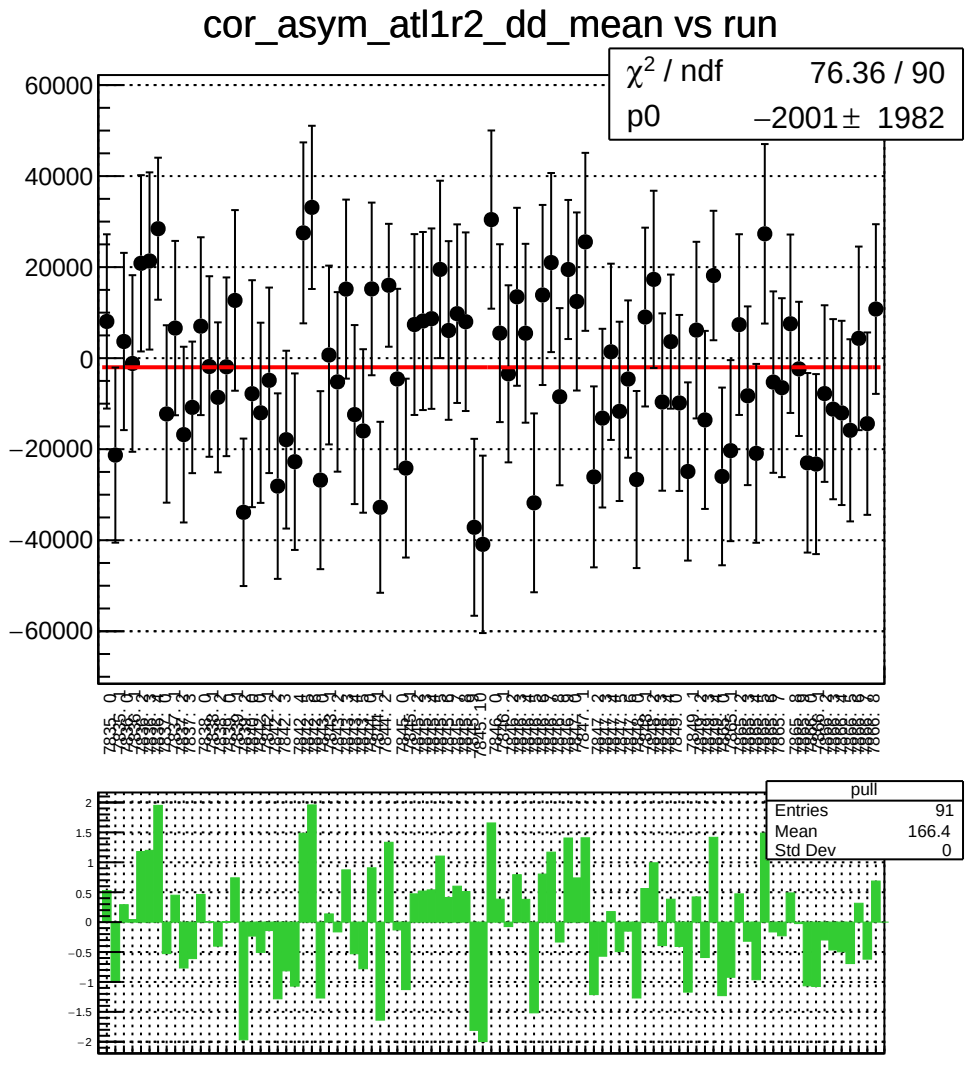

pull1D
Entries 91
Mean −0.01806
Std Dev 0.9158

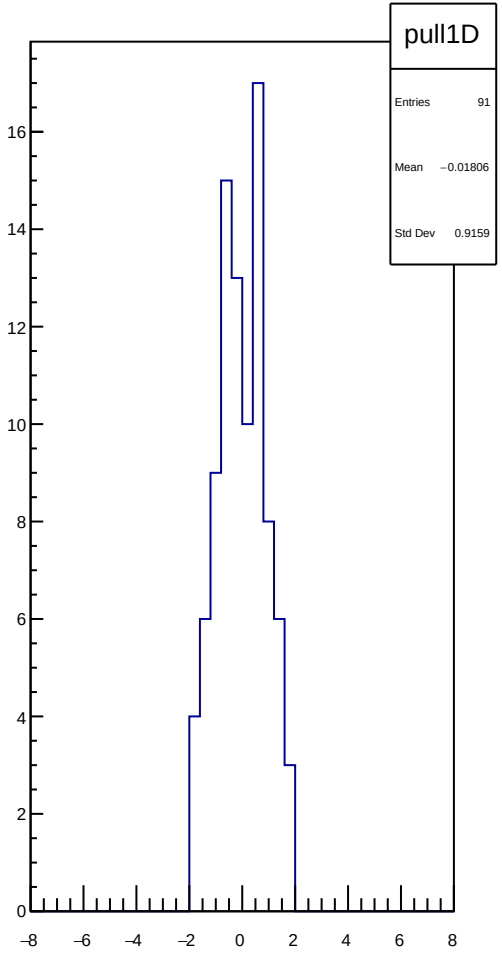

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 392.9 / 90
p0 1857 ± 1.402
1950
1900
1850
1800
1750

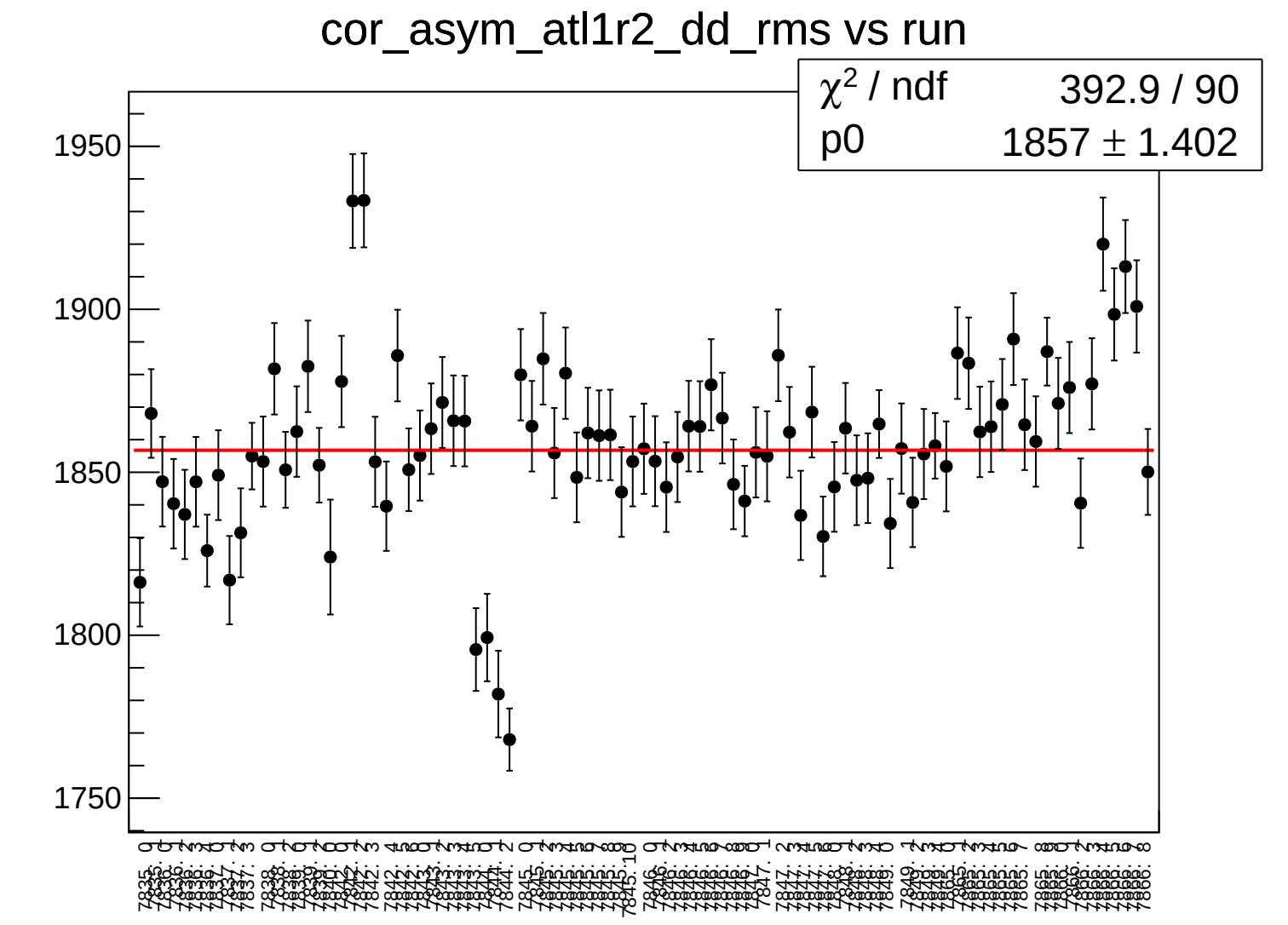

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.8 / 90
p0 1.376e+04 ± 8531
300
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean −59.54
Std Dev 0
2
1
0
−1
−2
−3

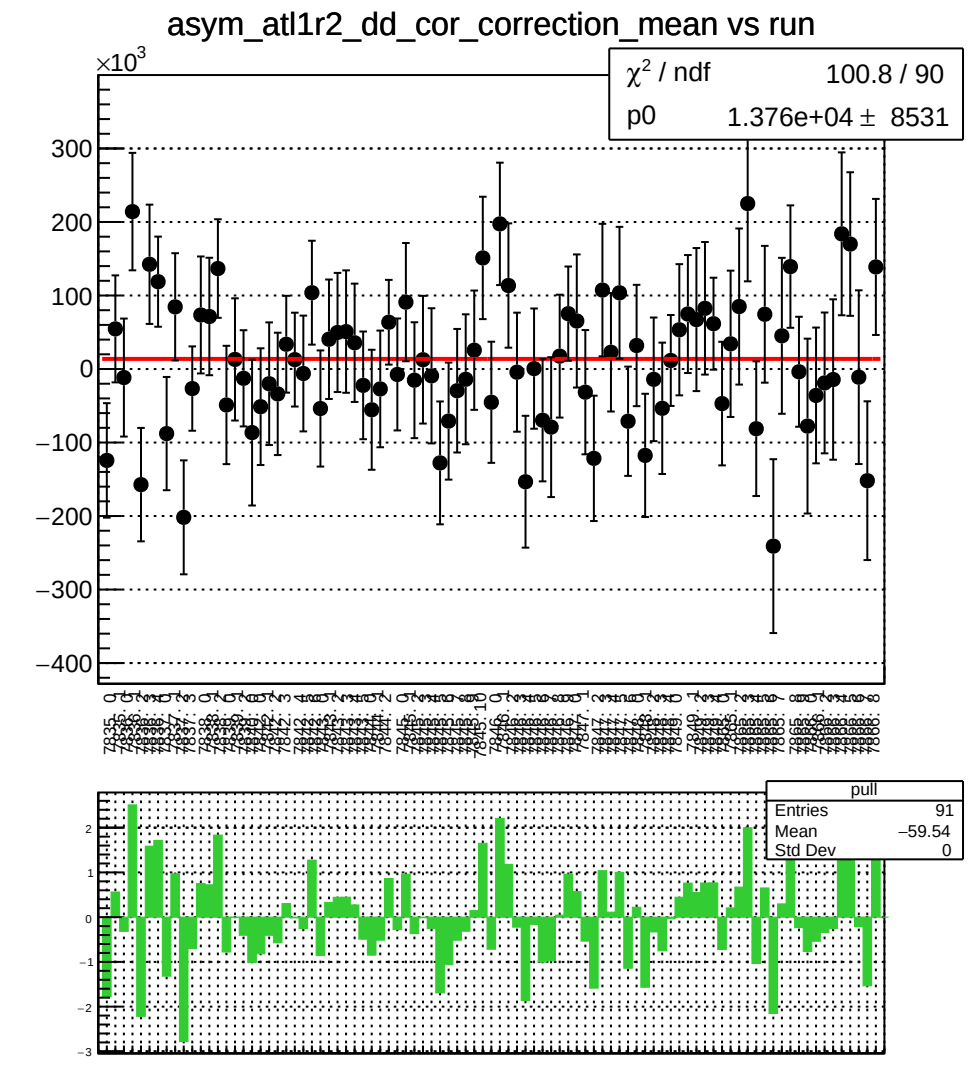

pull1D
Entries 91
Mean −0.01639
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

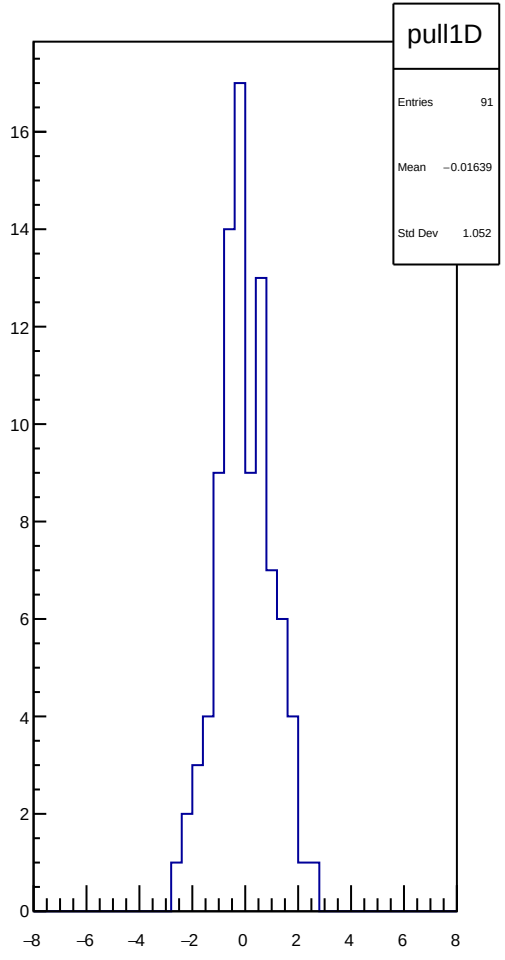

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2.077e+04 / 90
p0 7944 ± 6.032
11000
10000
9000
8000
7000
6000

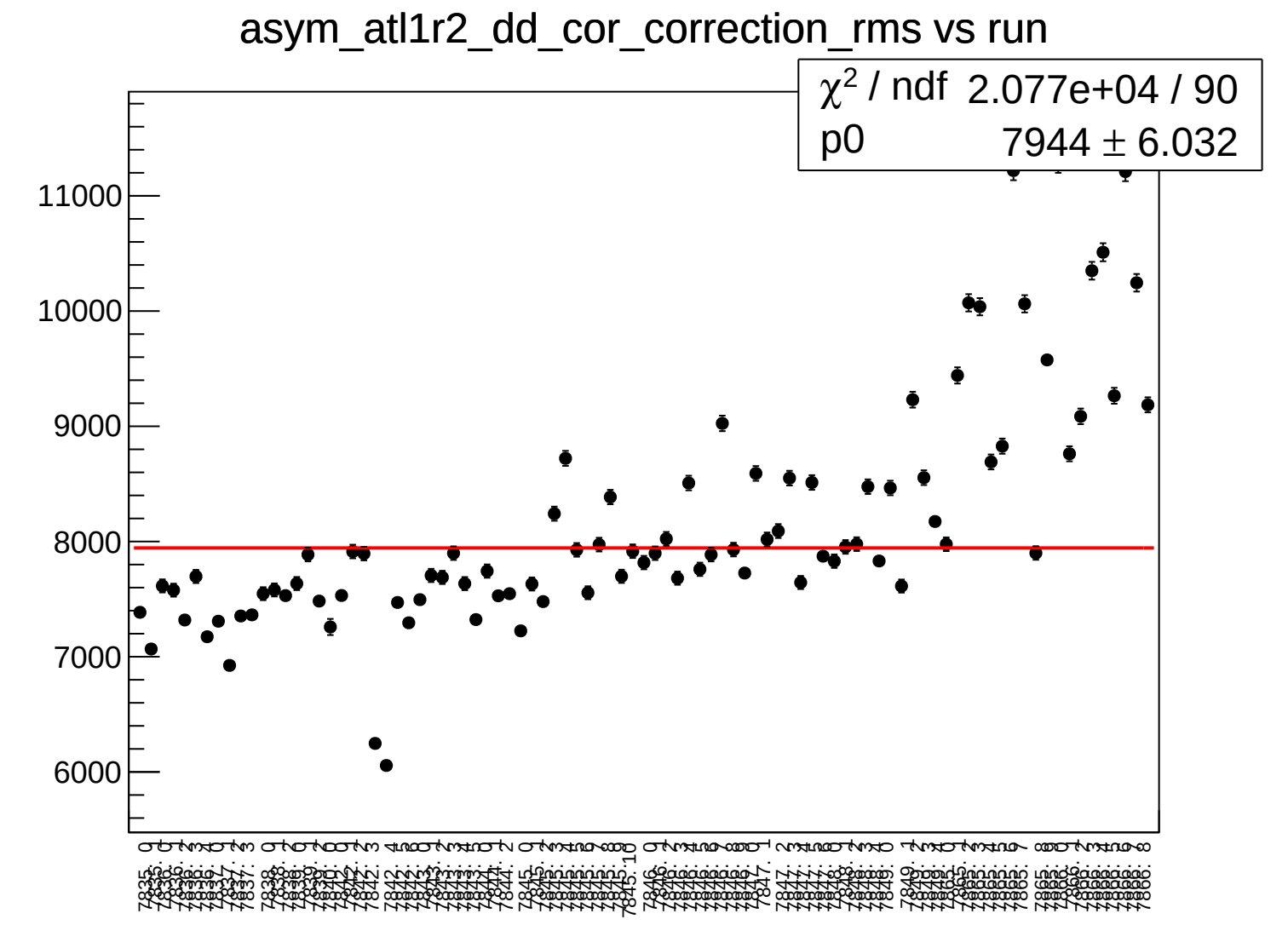

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 76.36 / 90
p0 −2001 ± 1982
pull
Entries 91
Mean 166.4
Std Dev 0

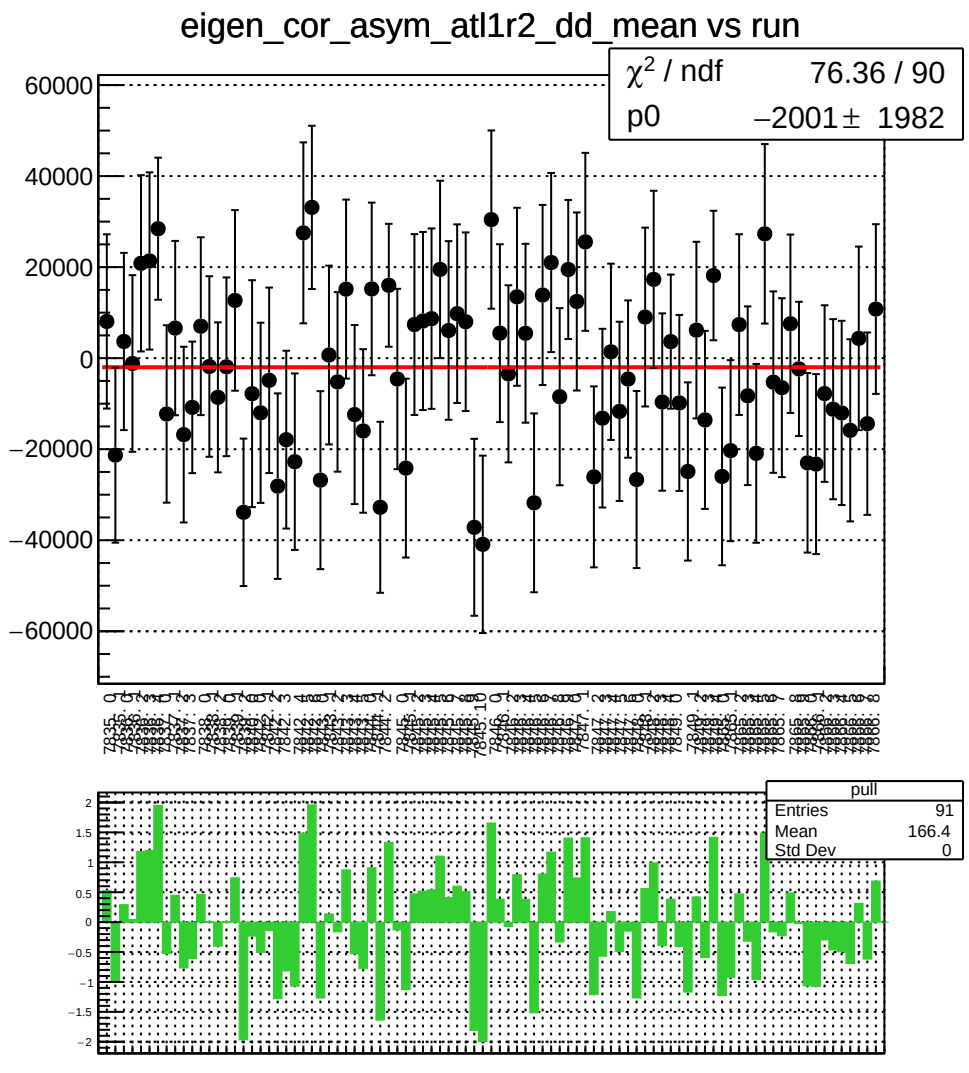

pull1D
Entries 91
Mean −0.01806
Std Dev 0.9159

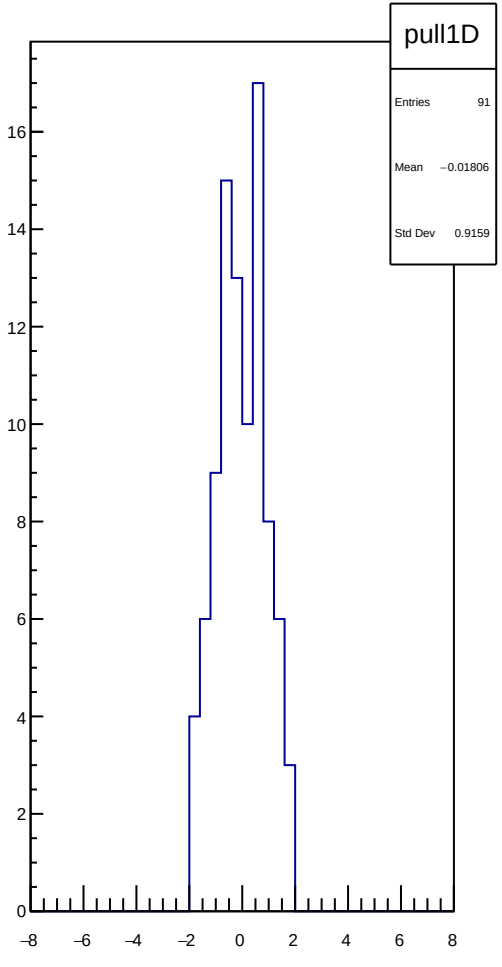

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 392.9 / 90
p0 1857 ± 1.402
1950
1900
1850
1800
1750

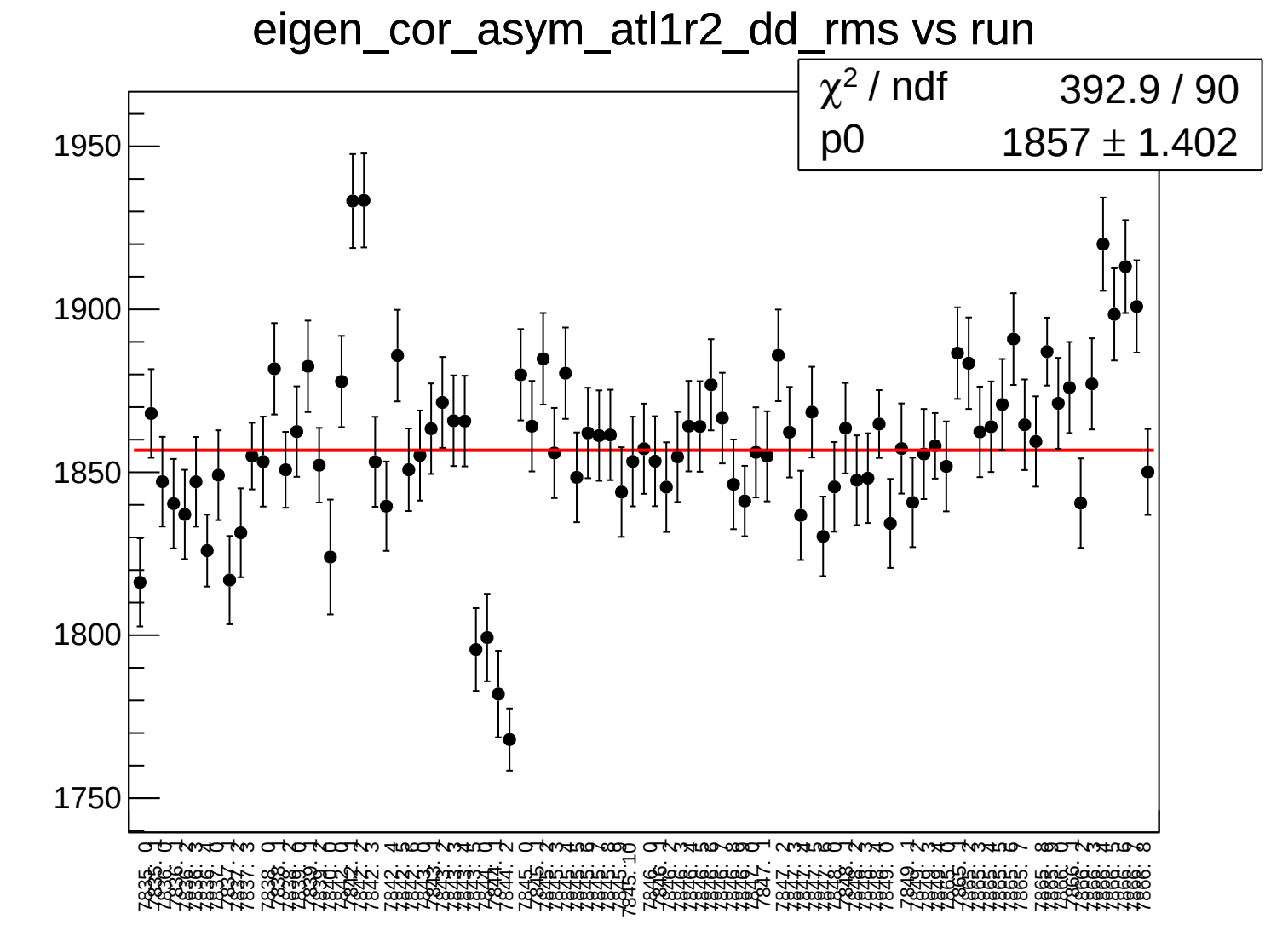

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 90
p0 1.376e+04 ± 8531
300
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean −59.54
Std Dev 0
2
1
0
−1
−2
−3

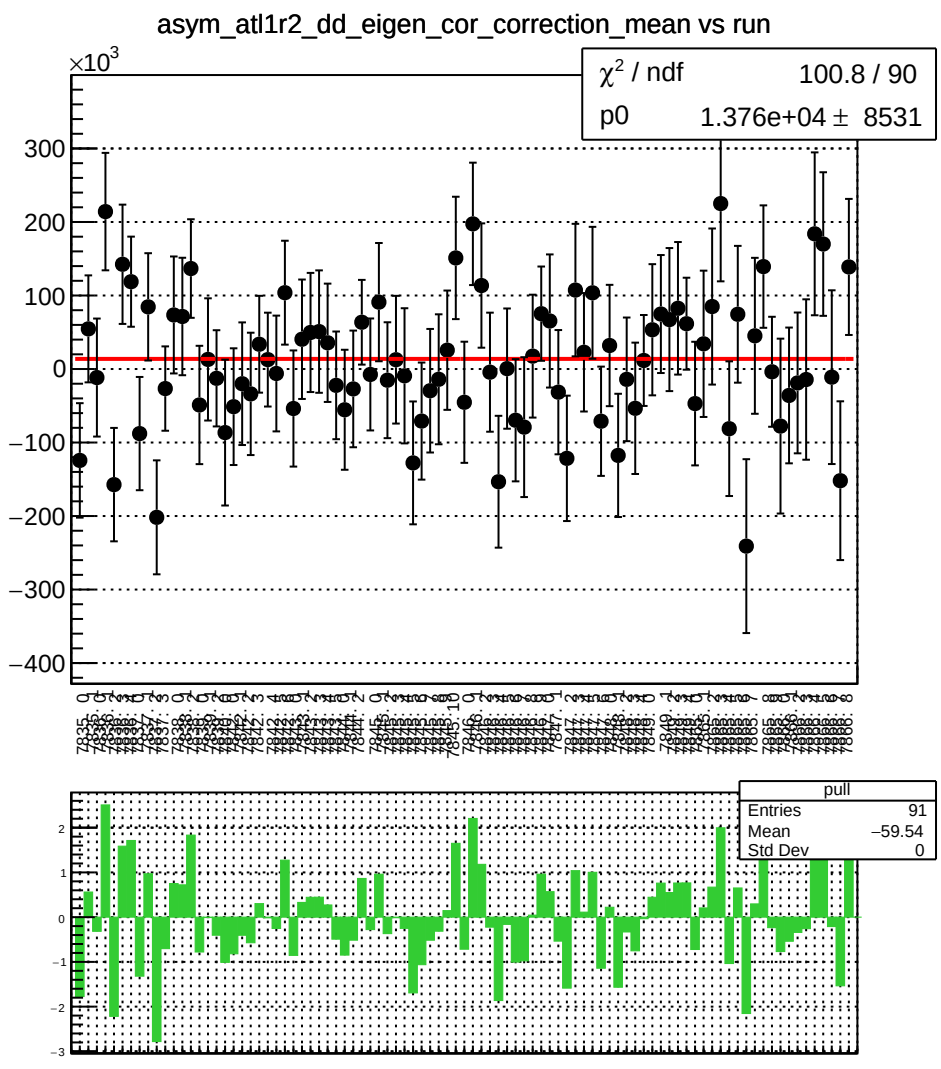

pull1D
Entries 91
Mean −0.01639
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

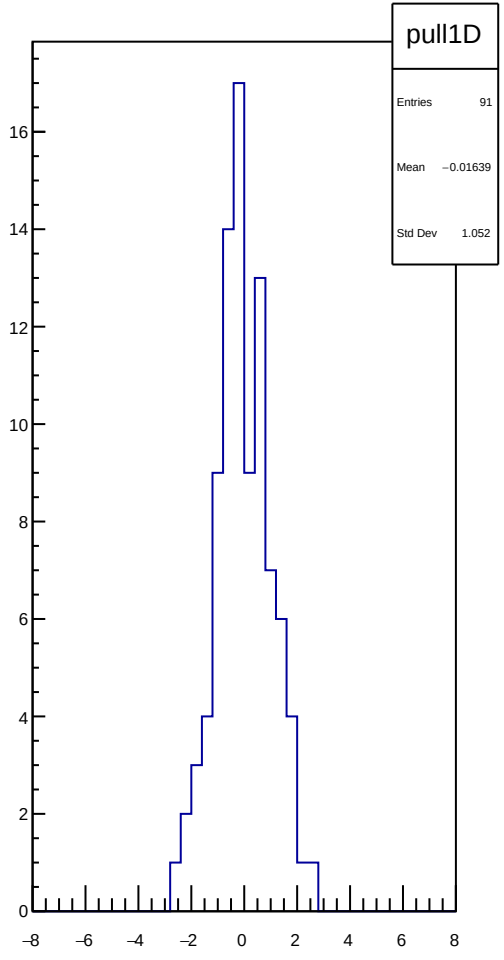

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2.077e+04 / 90
p0 7944 ± 6.032
11000
10000
9000
8000
7000
6000

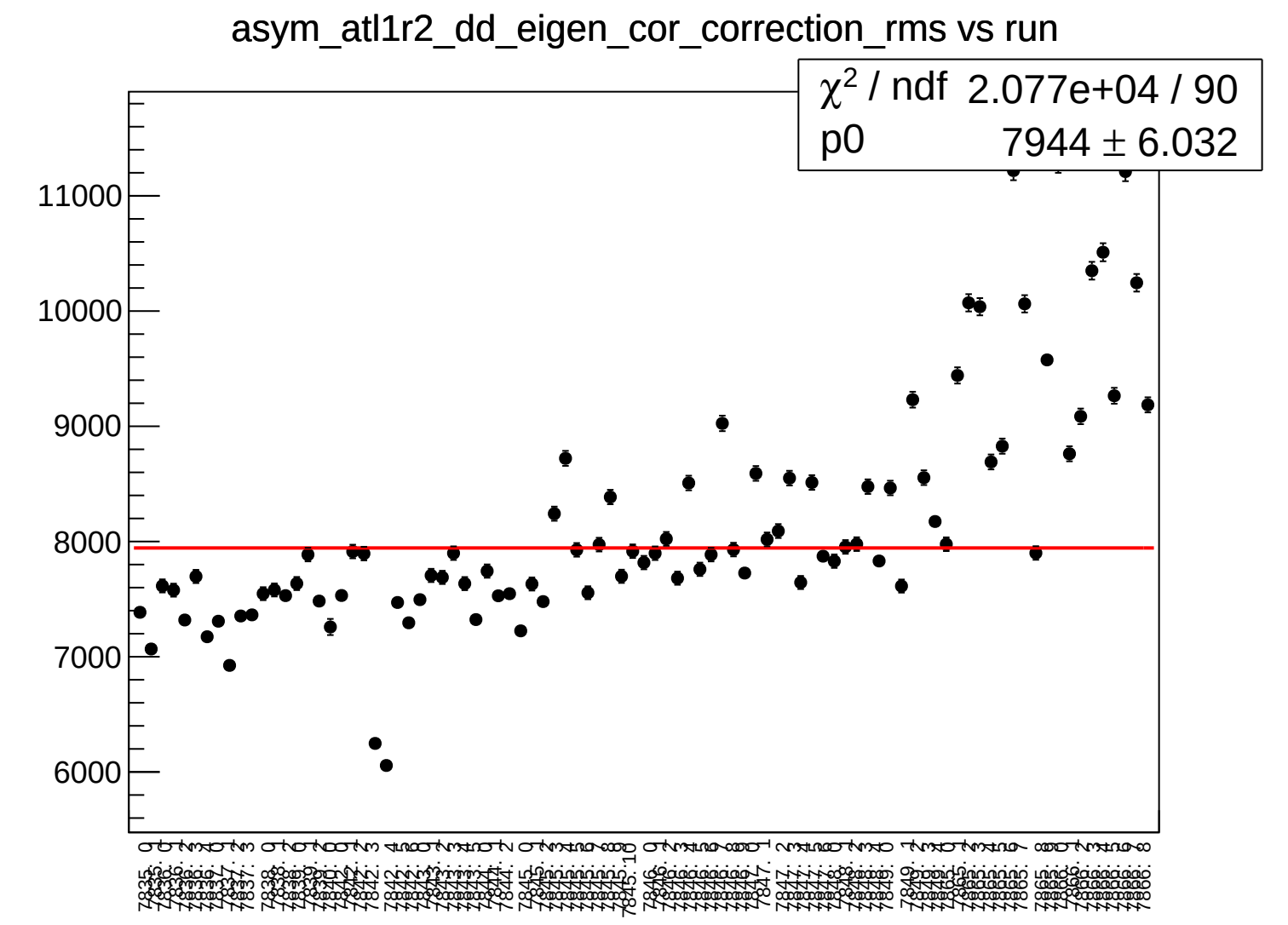

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 76.36 / 90
p0 −2001 ± 1982
pull
Entries 91
Mean 166.4
Std Dev 0

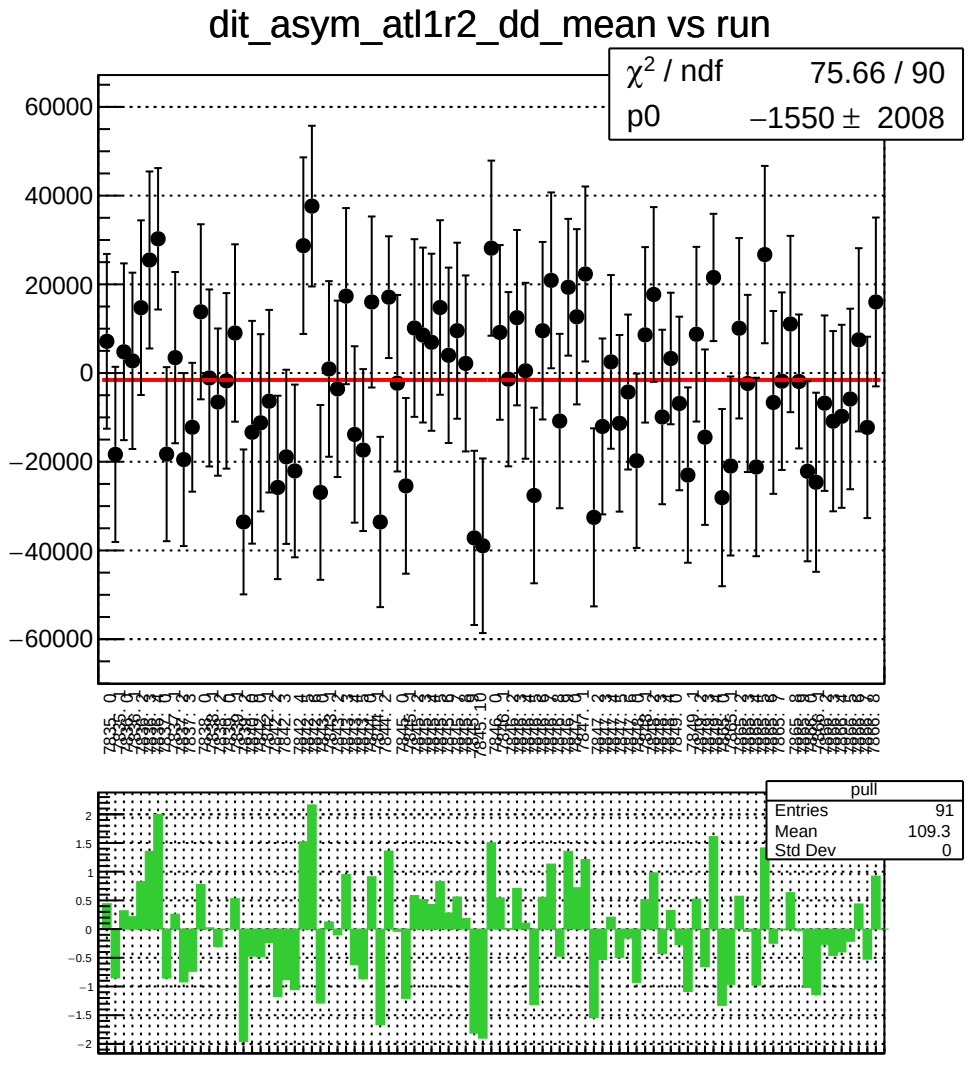

pull1D
Entries 91
Mean −0.01806
Std Dev 0.9159

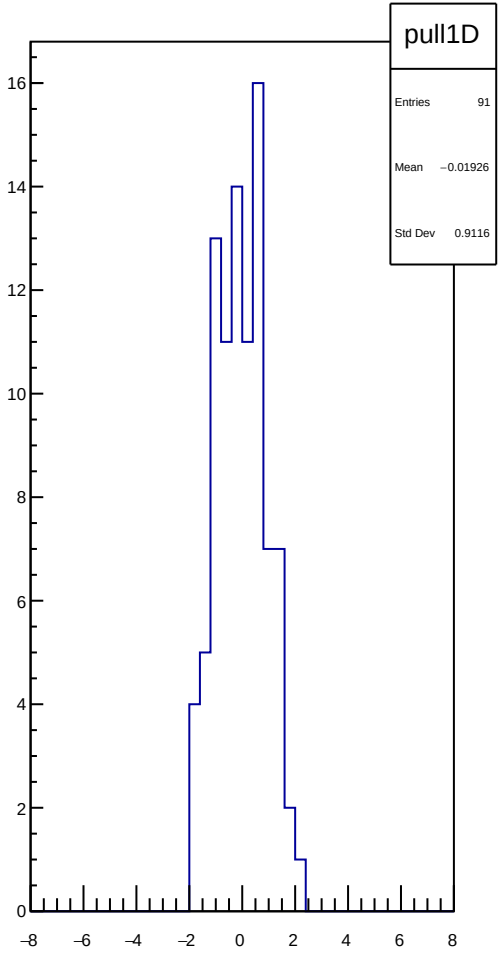

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 392.9 / 90
p0 1857 ± 1.402
1950
1900
1850
1800
1750

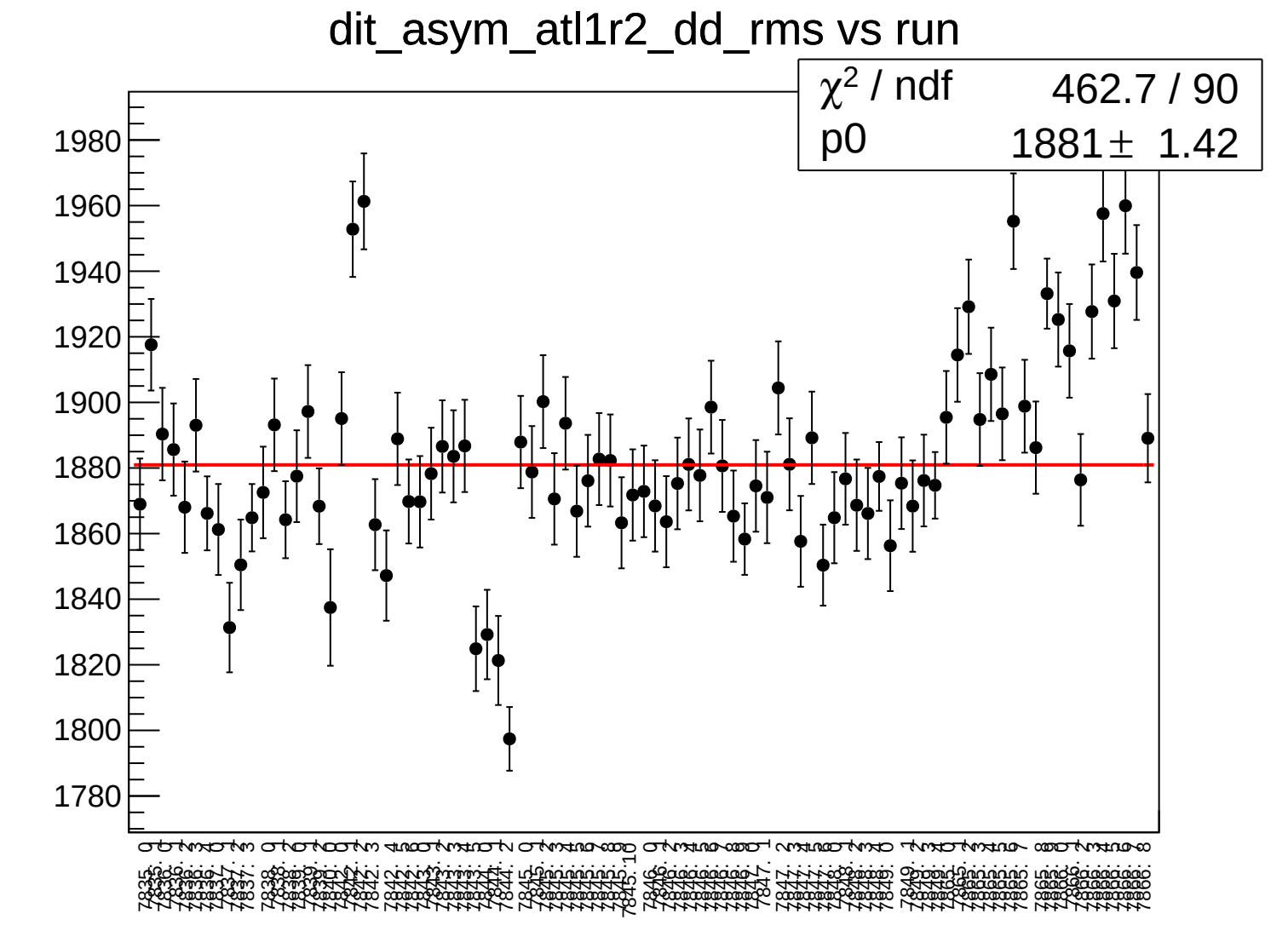

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 90
p0 1.376e+04 ± 8531
300
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean −59.54
Std Dev 0
2
1
0
−1
−2
−3

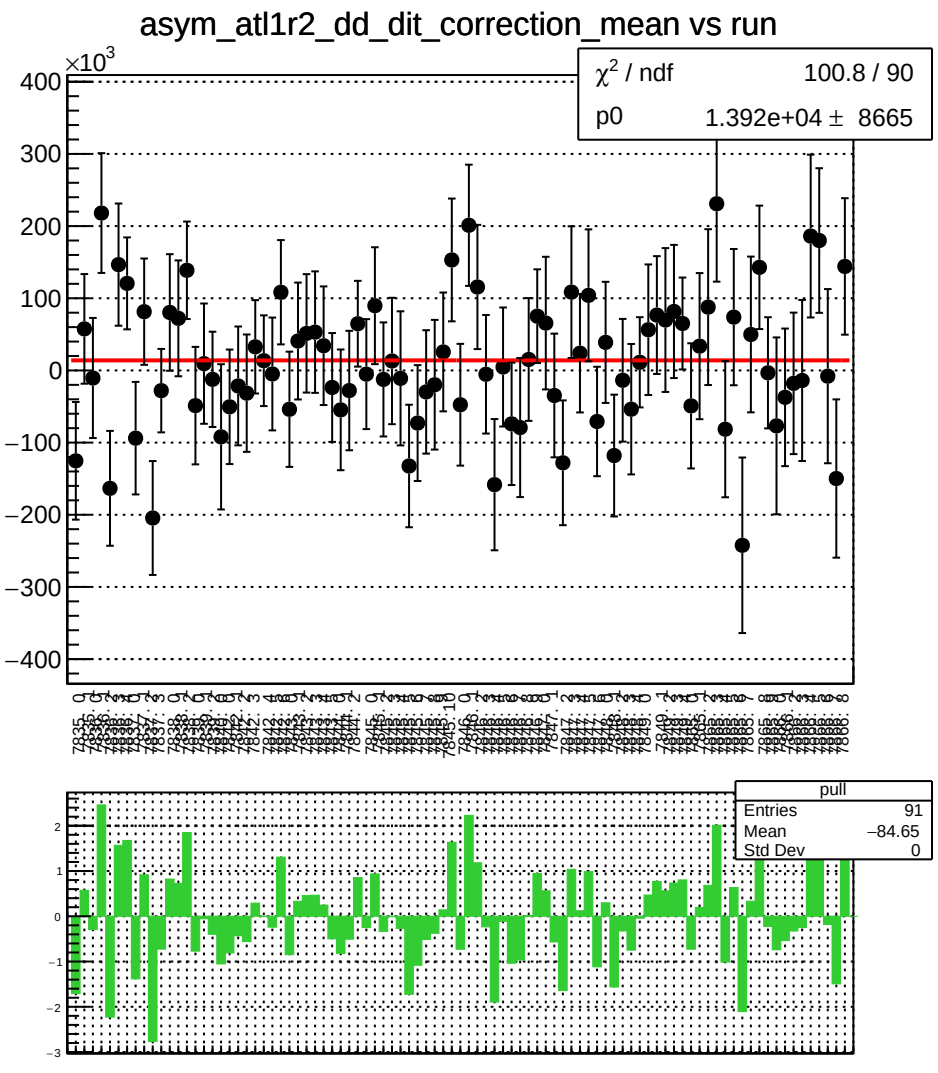

pull1D
Entries 91
Mean −0.01639
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

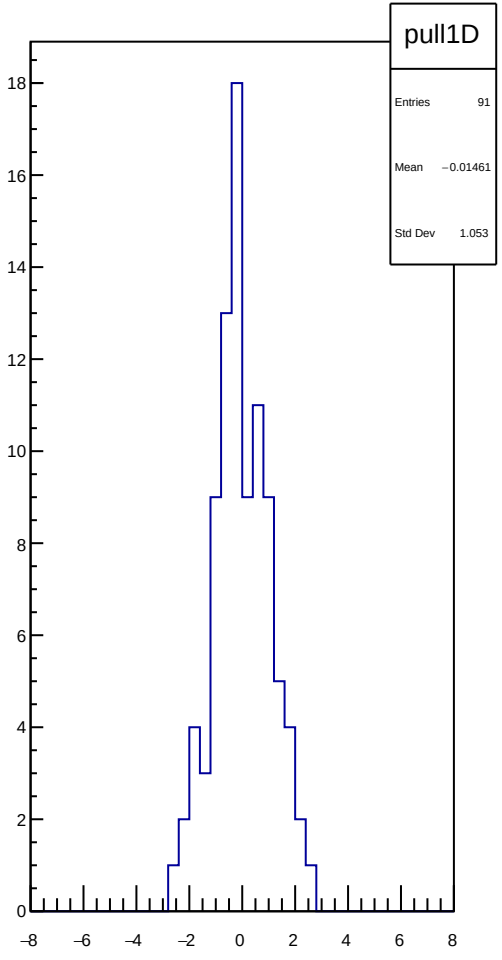

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.077e+04 / 90
p0 7944 ± 6.032
11000
10000
9000
8000
7000
6000

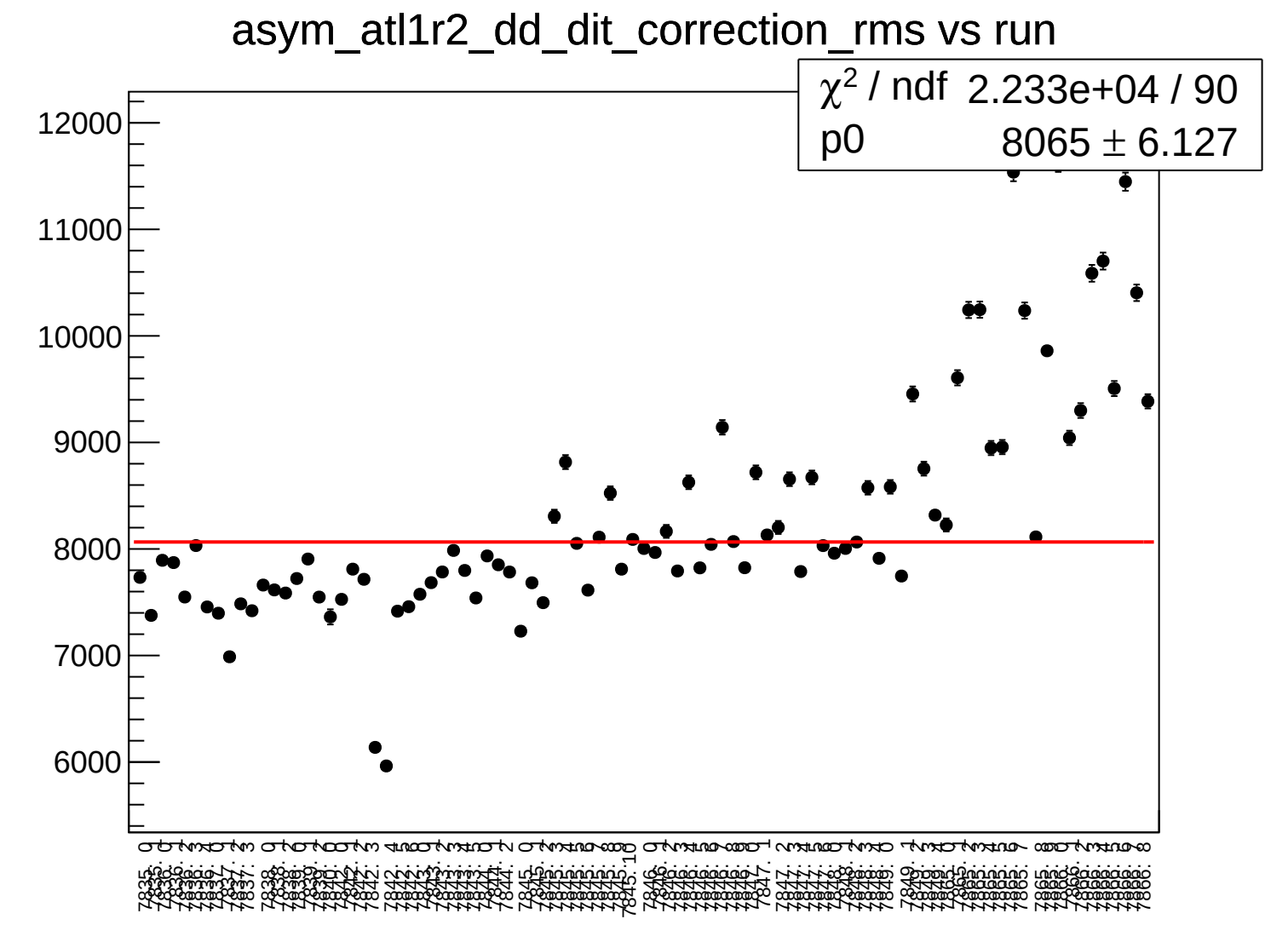

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 75.66 / 90
p0 −1550 ± 2008
pull
Entries 91
Mean 109.3
Std Dev 0

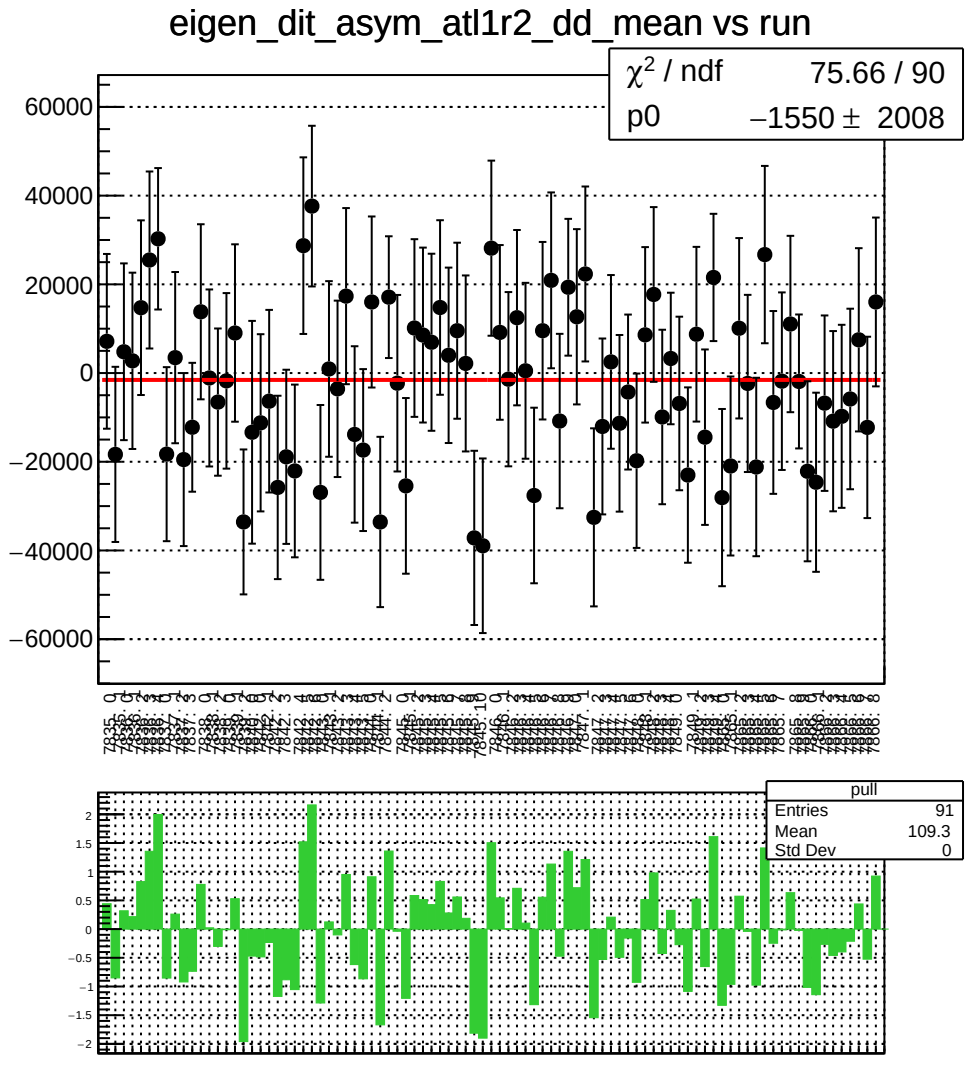

pull1D
Entries 91
Mean −0.01926
Std Dev 0.9116

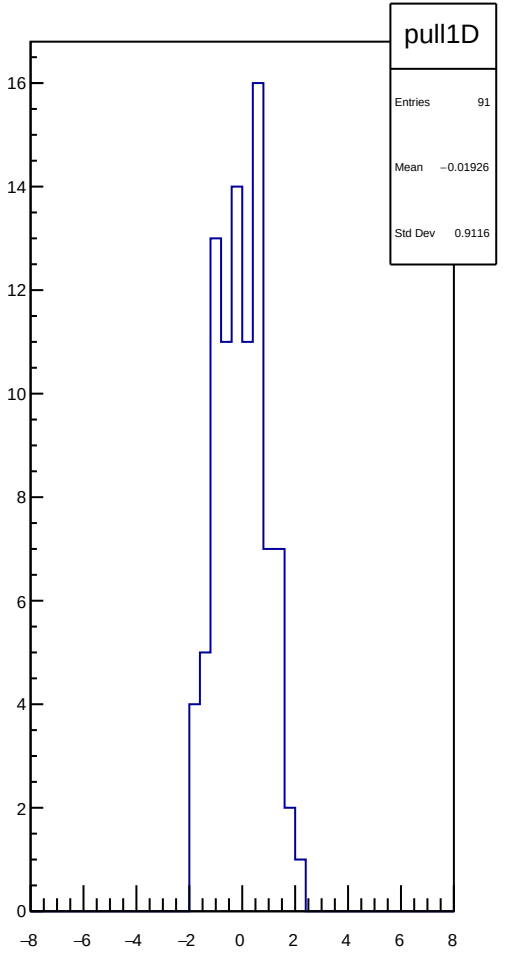

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 462.7 / 90
p0 1881 ± 1.42
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

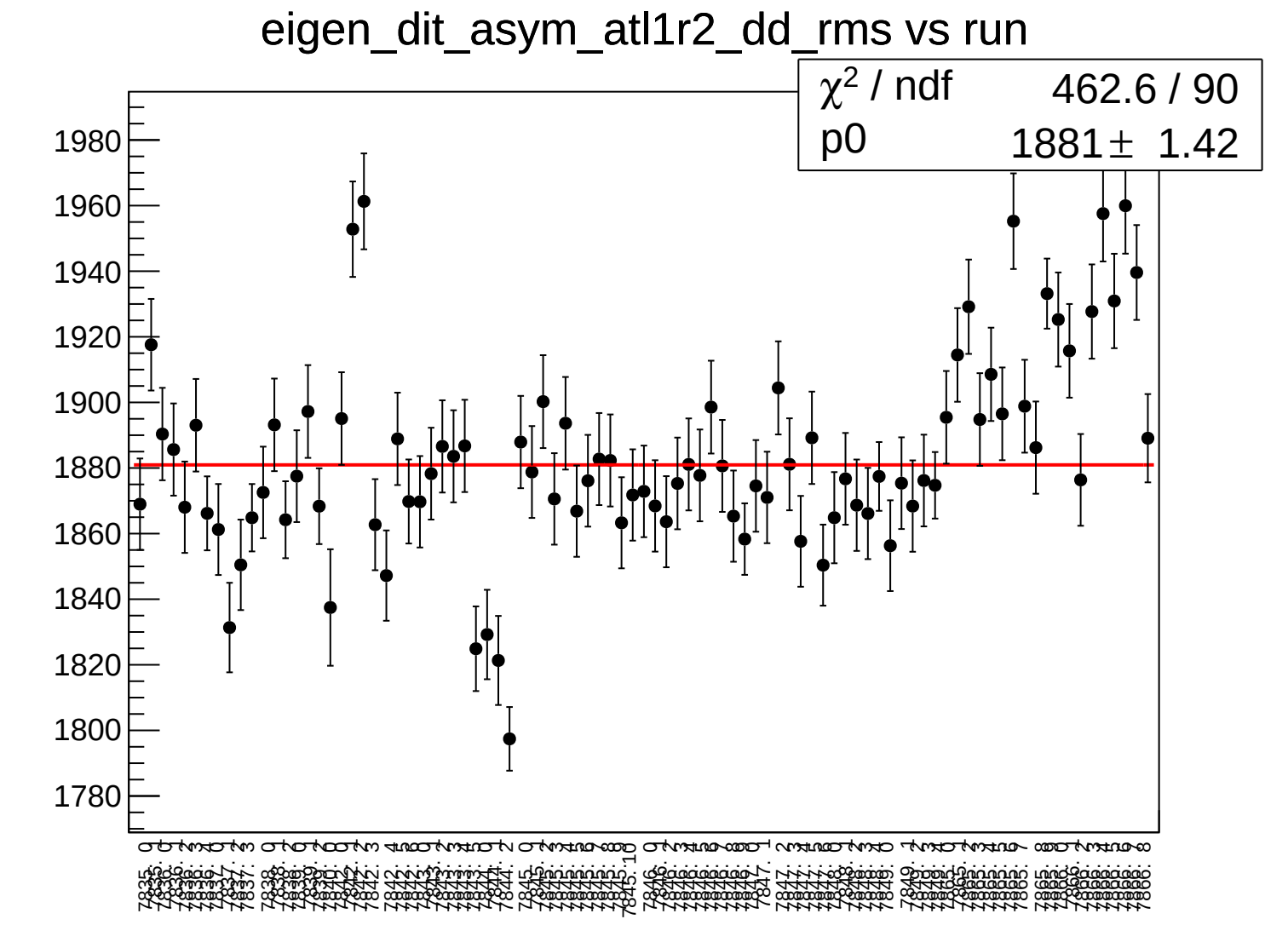

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.8 / 90
p0 1.392e+04 ± 8665
pull
Entries 91
Mean −84.65
Std Dev 0

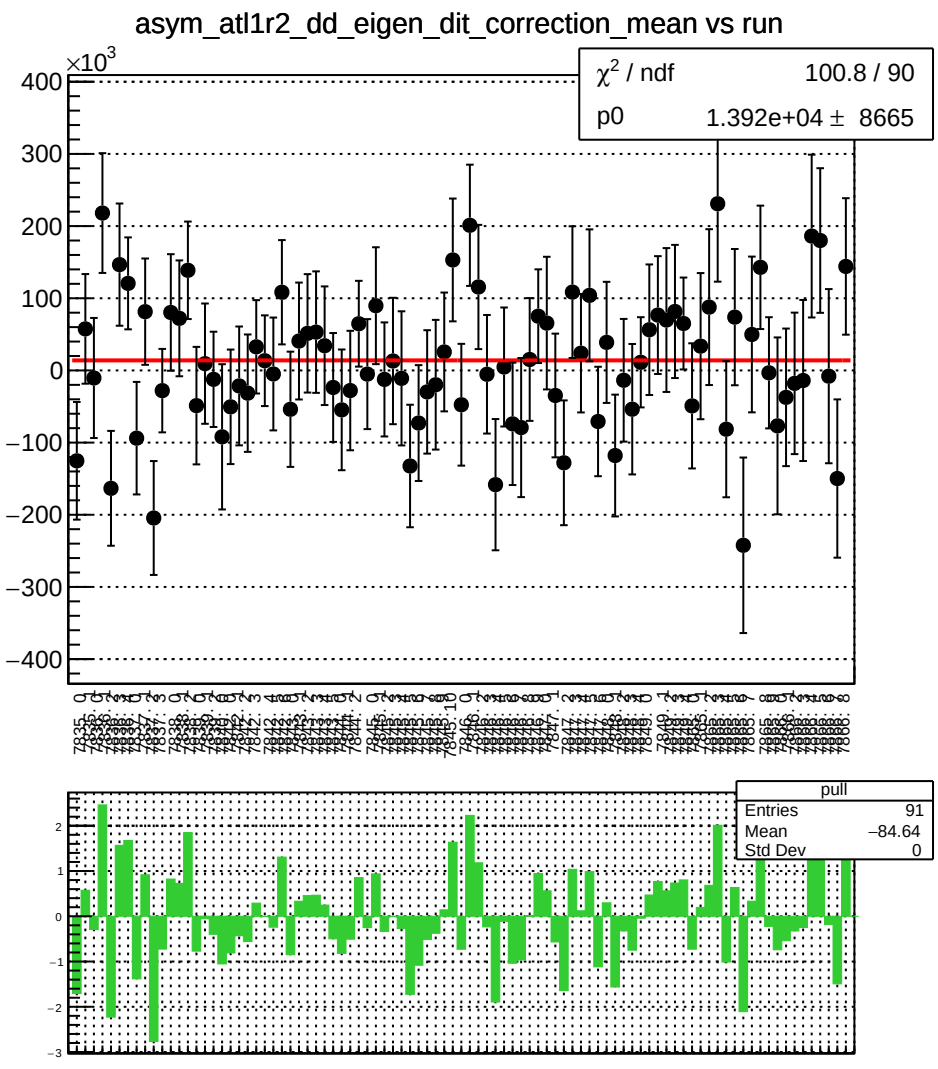

pull1D
Entries 91
Mean −0.01461
Std Dev 1.053

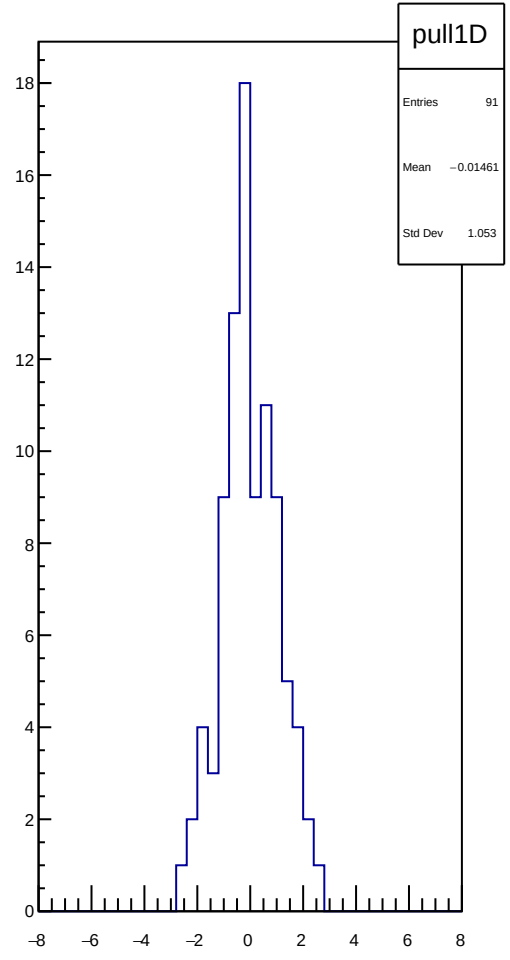

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2.233e+04 / 90
p0 8065 ± 6.127
12000
11000
10000
9000
8000
7000
6000

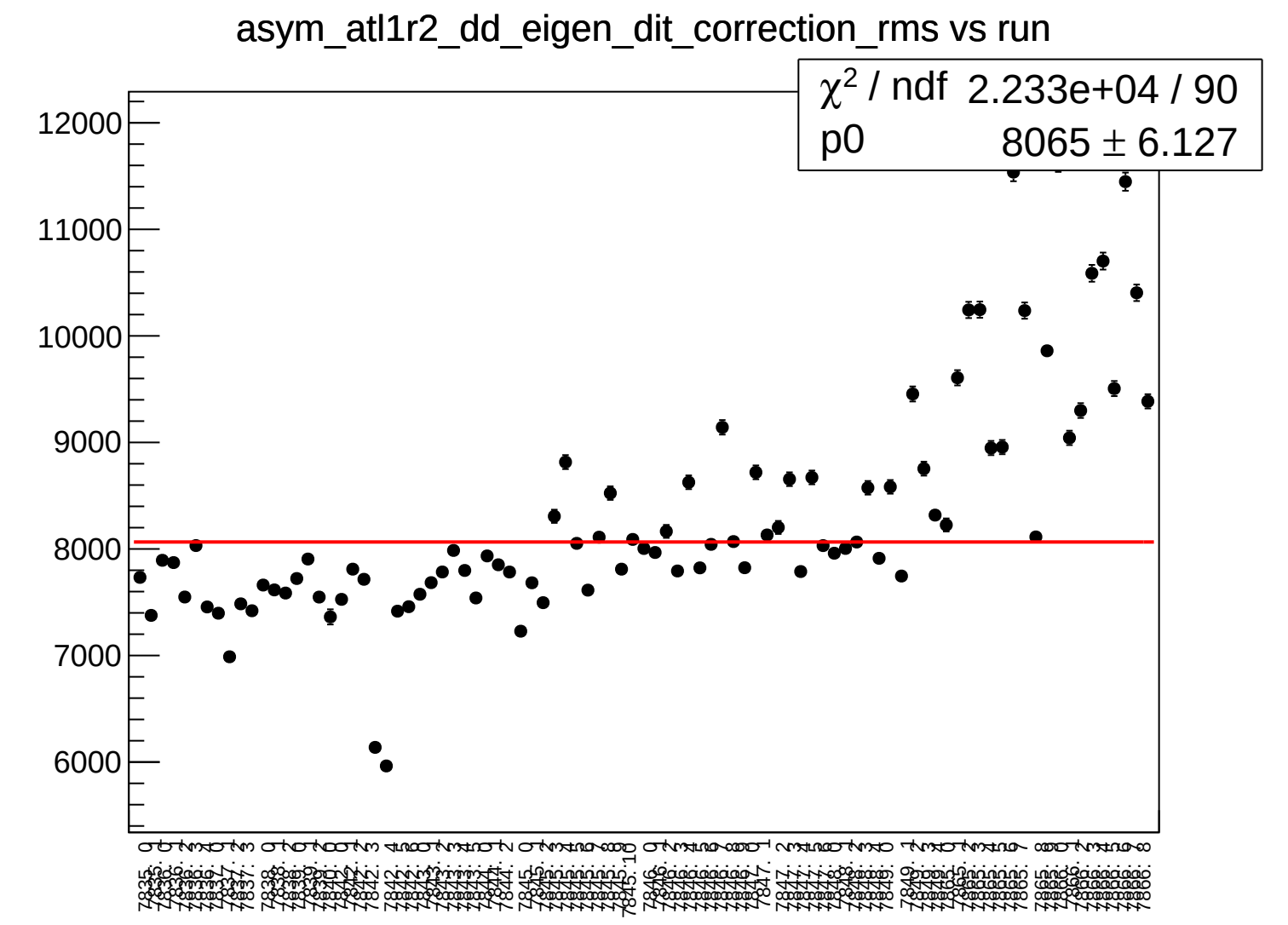

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 75.66 / 90
p0 −1550 ± 2008
pull
Entries 91
Mean 109.3
Std Dev 0

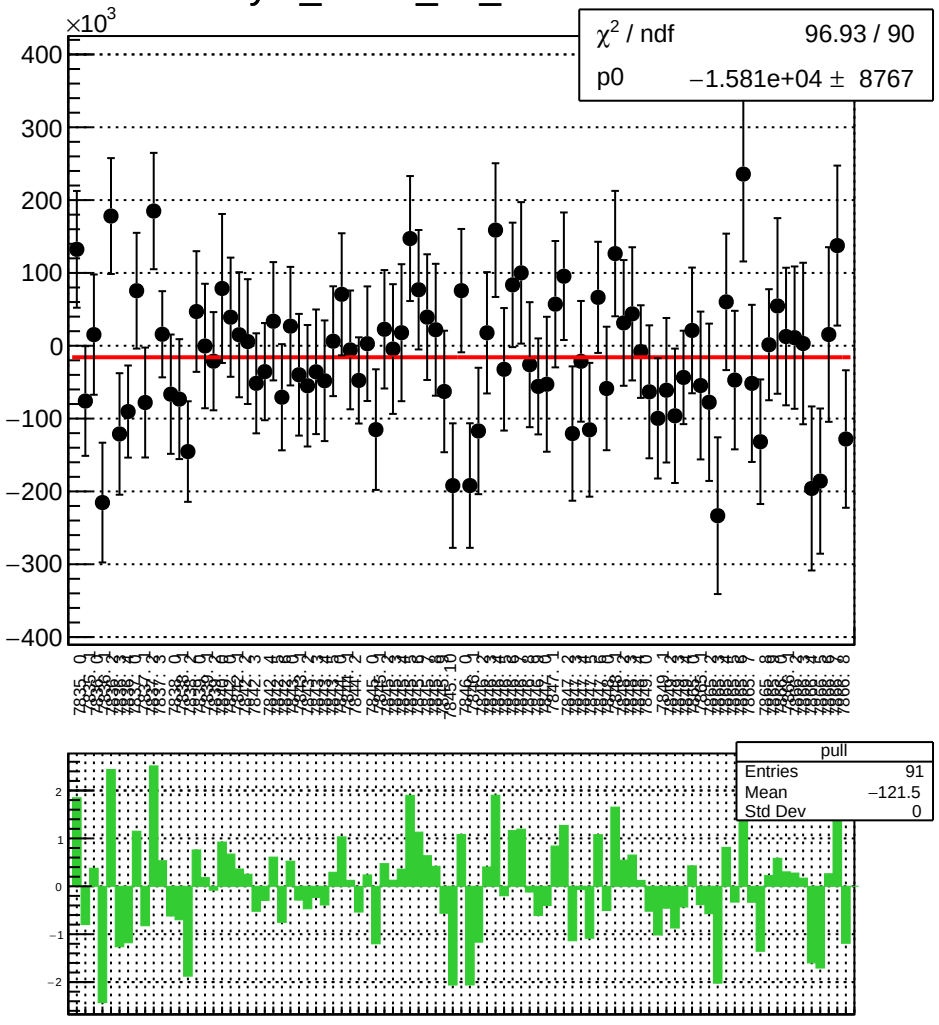

pull1D
Entries 91
Mean −0.01926
Std Dev 0.9116

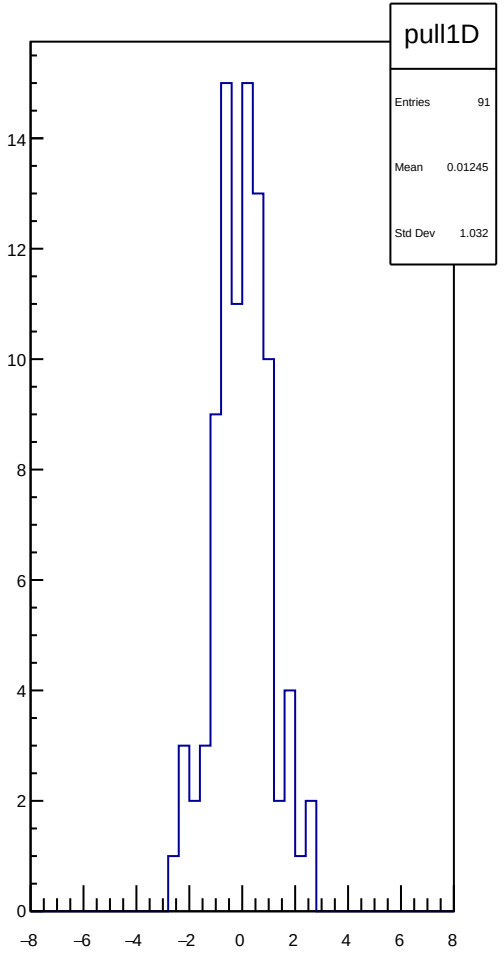

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 462.6 / 90
p0 1881 ± 1.42
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

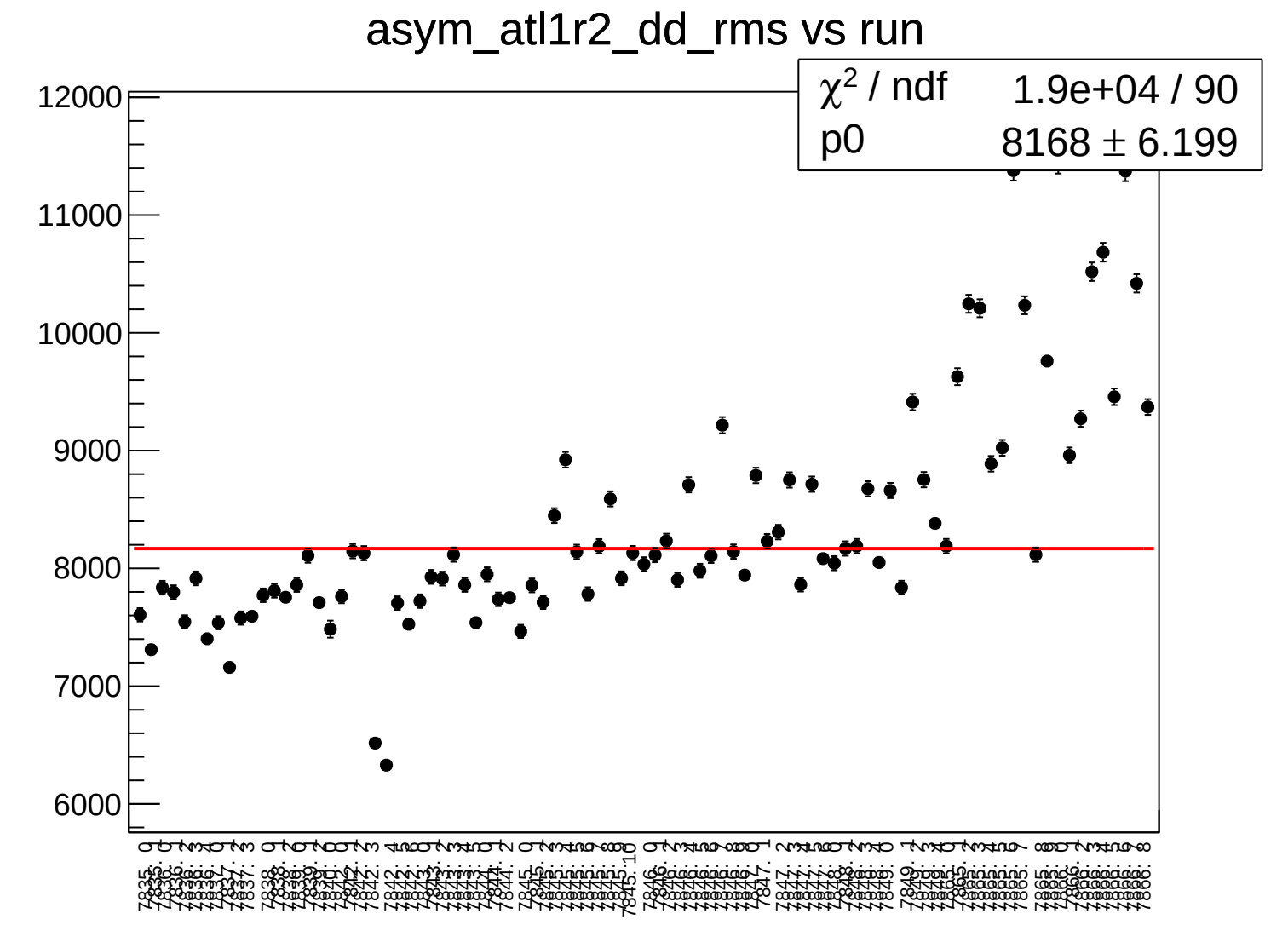

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.8 / 90
p0 1.392e+04 ± 8665
pull
Entries 91
Mean −84.64
Std Dev 0

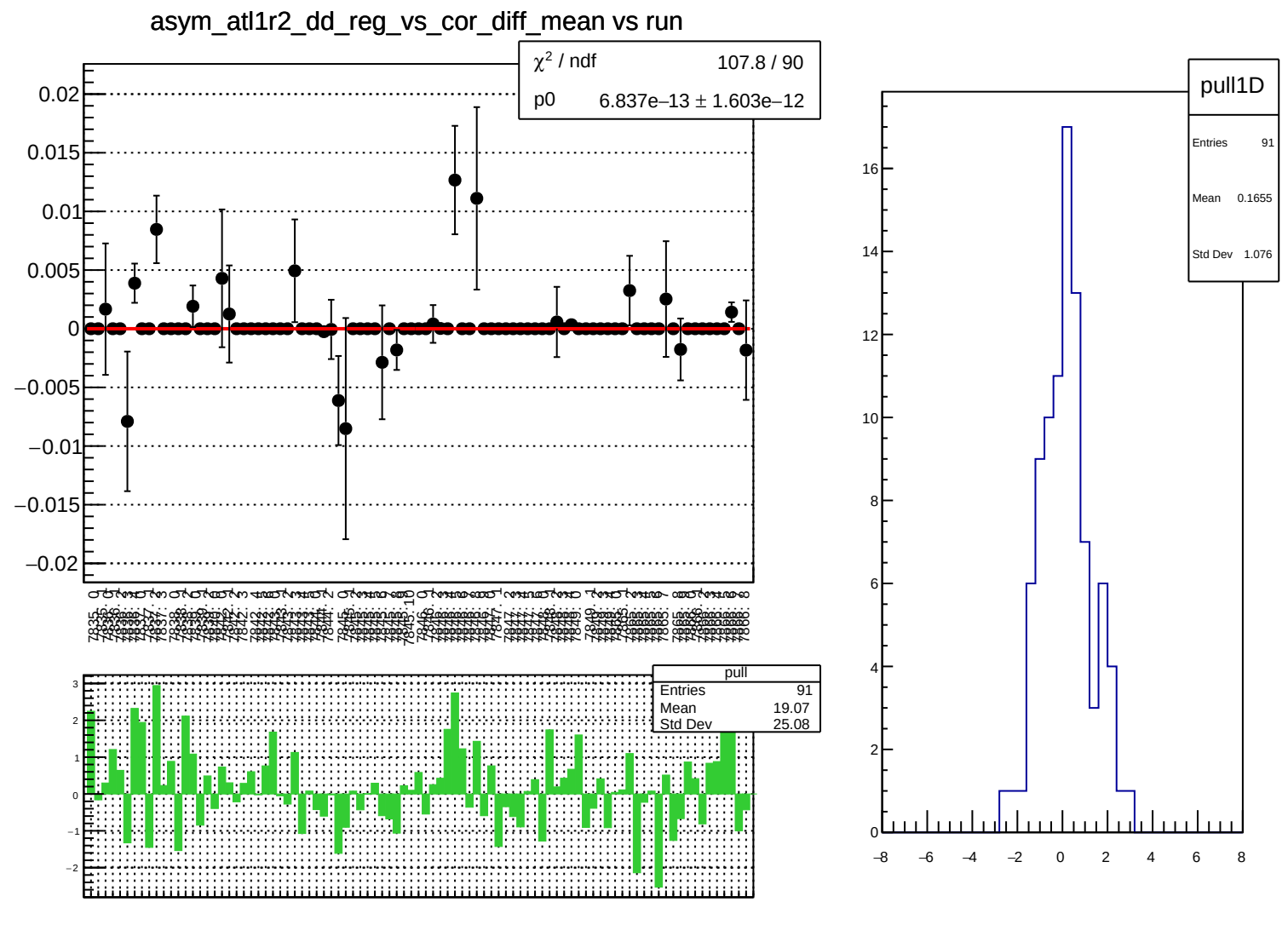

pull1D
Entries 91
Mean −0.01461
Std Dev 1.053

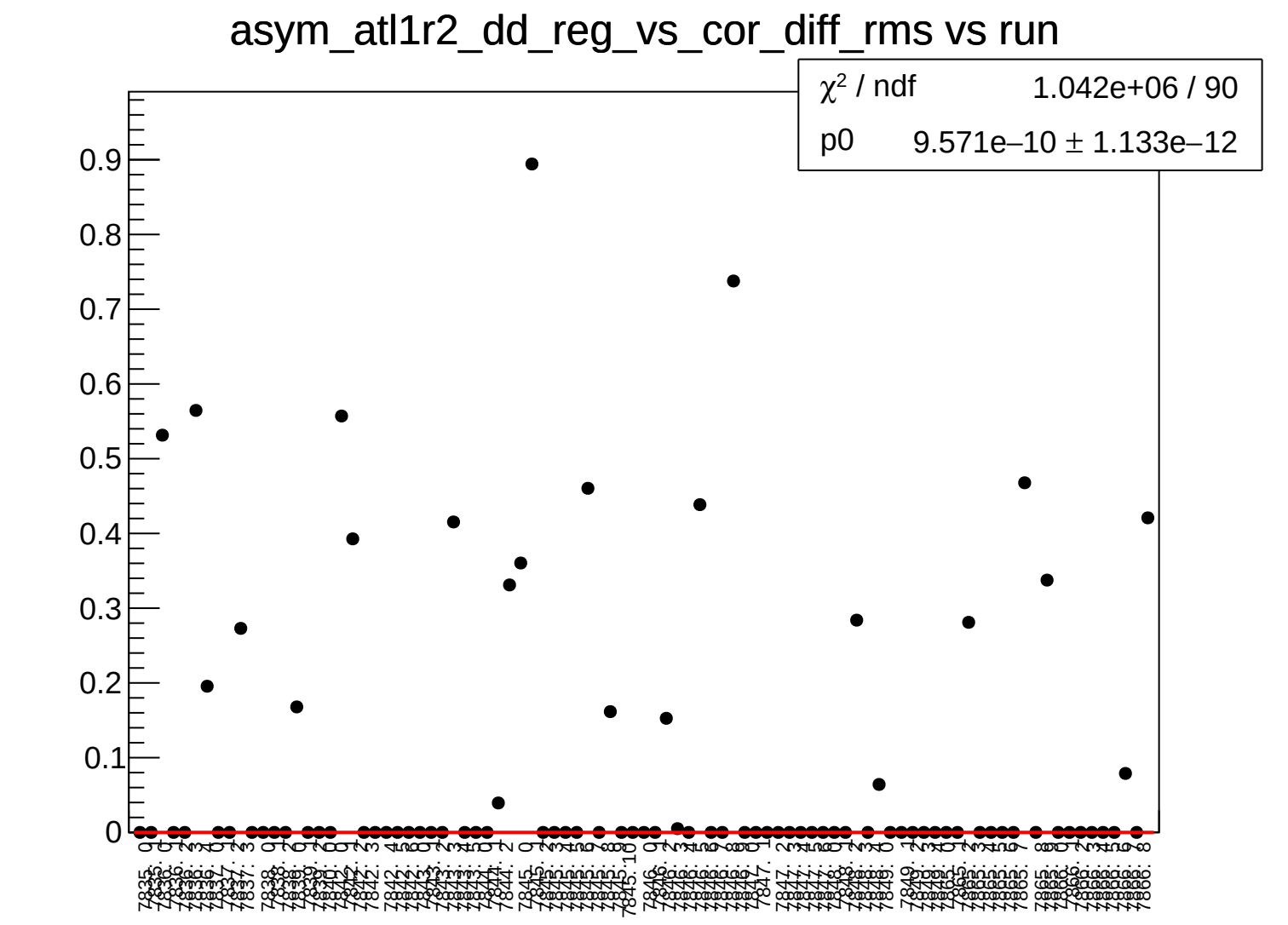

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.233e+04 / 90
p0 8065 ± 6.127
12000
11000
10000
9000
8000
7000
6000

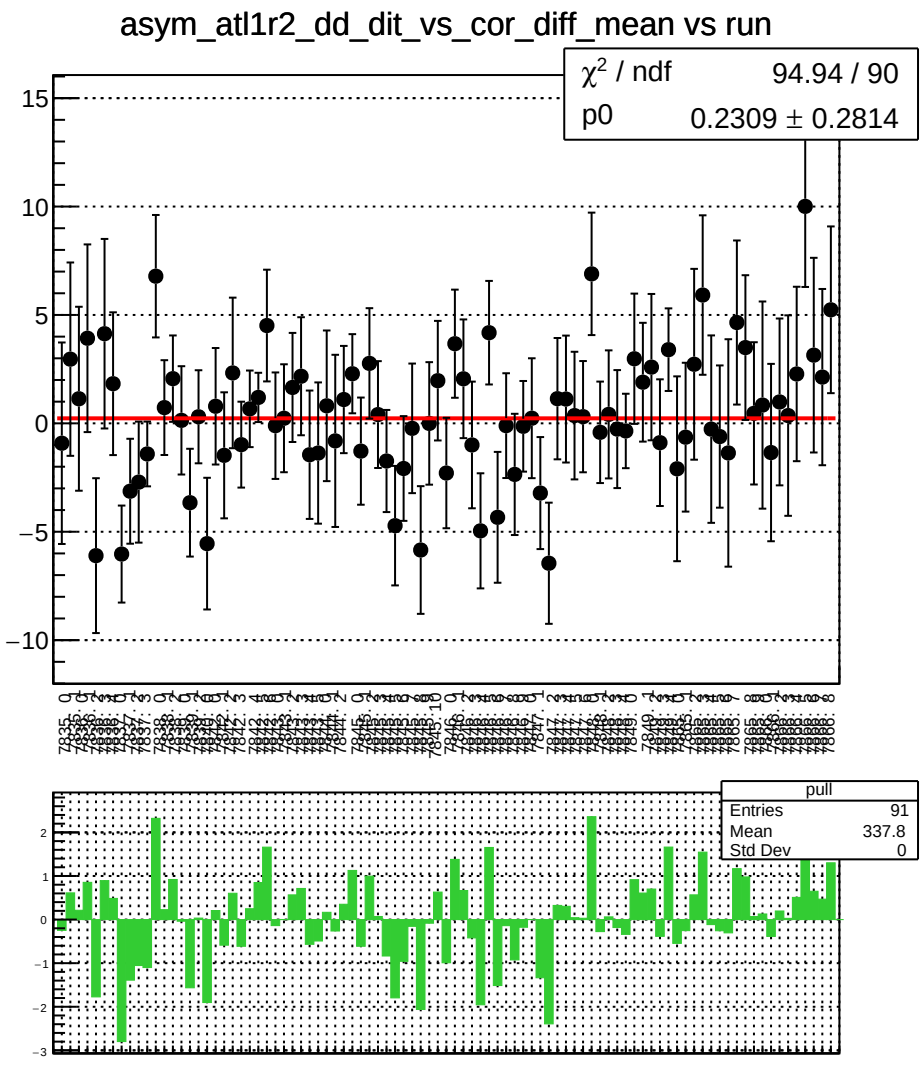

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 96.93 / 90
p0 −1.581e+04 ± 8767
pull
Entries 91
Mean −121.5
Std Dev 0

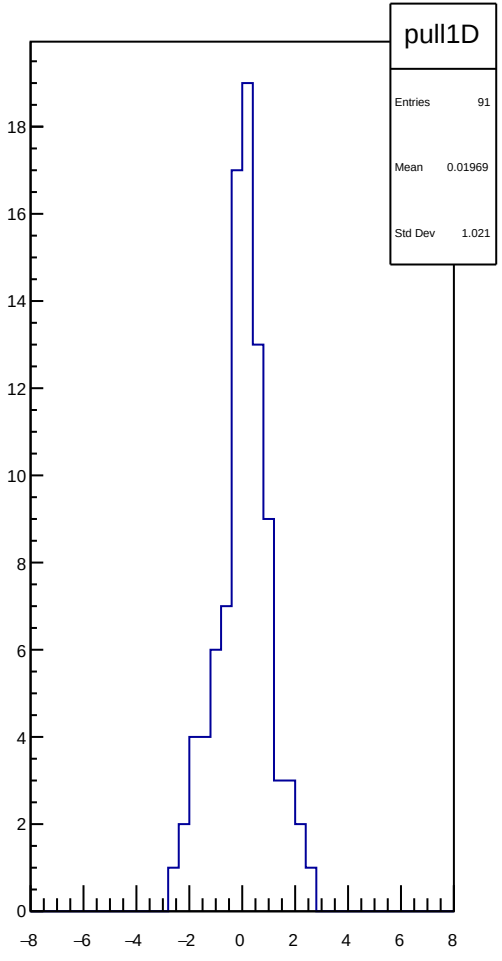

pull1D
Entries 91
Mean 0.01245
Std Dev 1.032

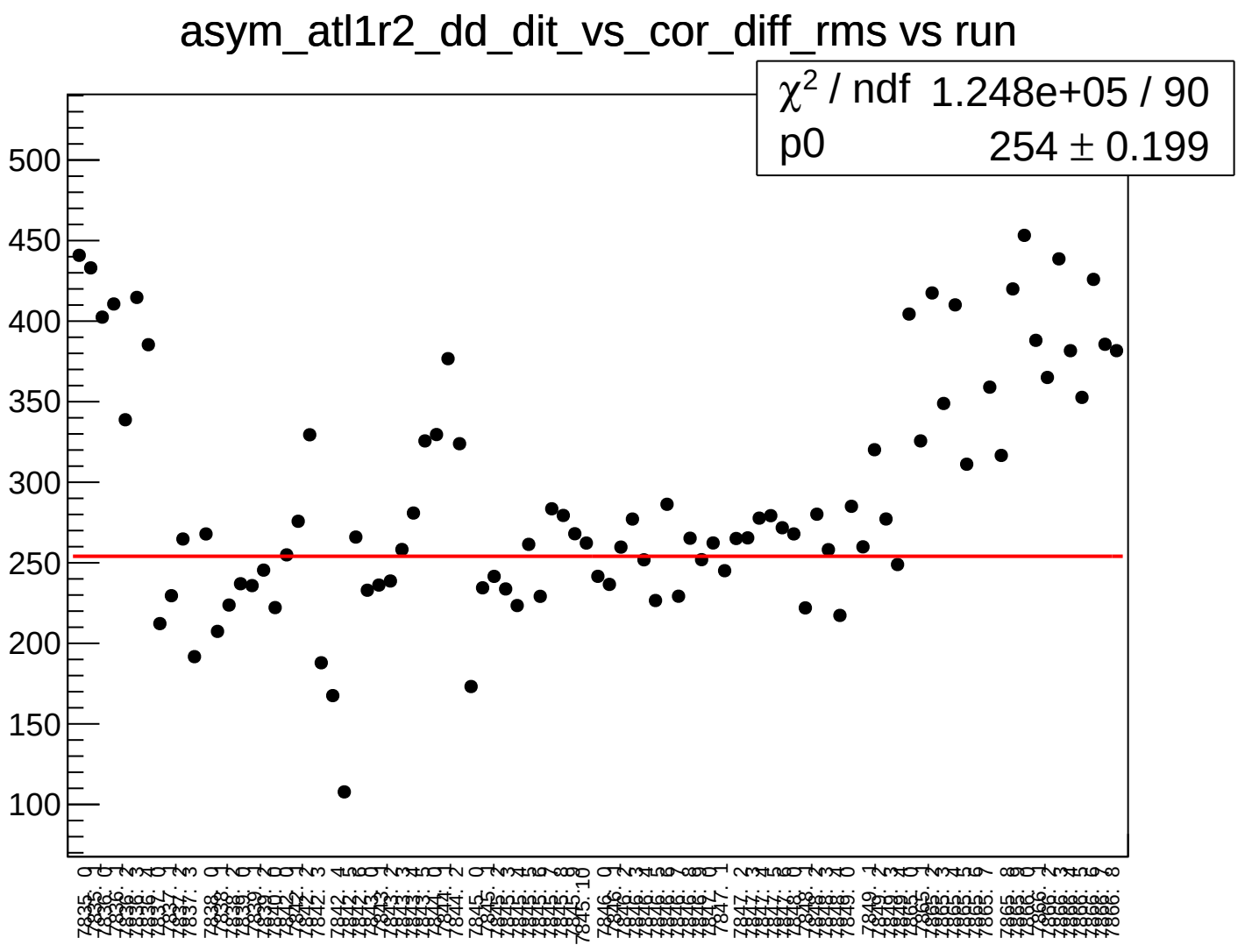

asym_atl1r2_dd_rms vs run
χ² / ndf 1.9e+04 / 90
p0 8168 ± 6.199
12000
11000
10000
9000
8000
7000
6000

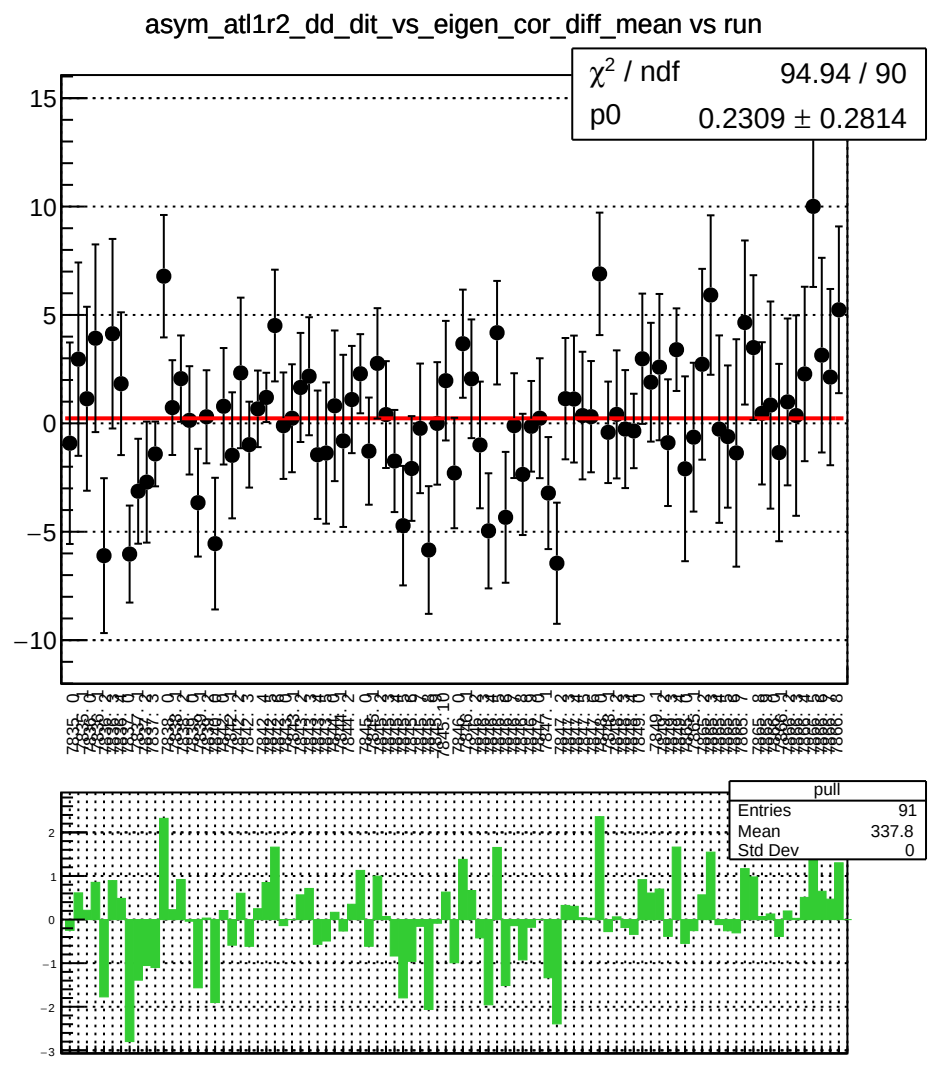

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 90
p0 6.837e−13 ± 1.603e−12
pull
Entries 91
Mean 19.07
Std Dev 25.08
pull1D
Entries 91
Mean 0.1655
Std Dev 1.076

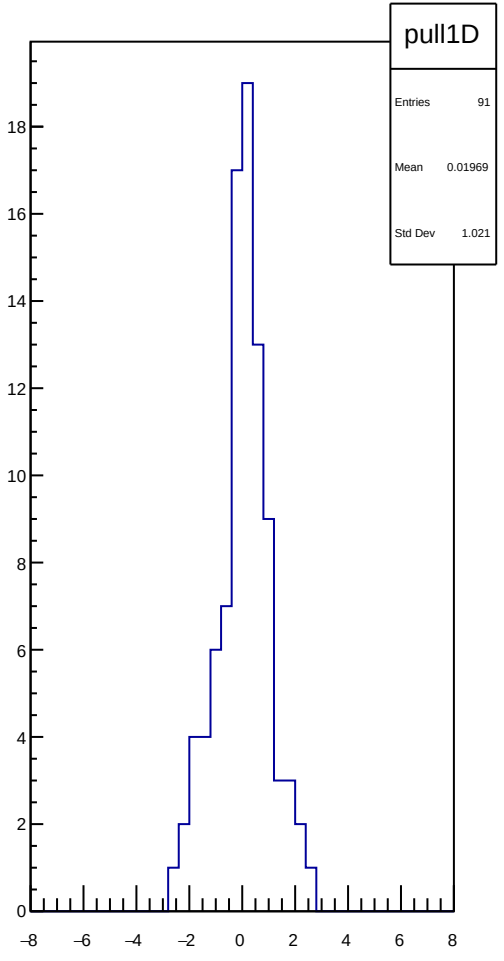

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.042e+06 / 90
p0 9.571e−10 ± 1.133e−12
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

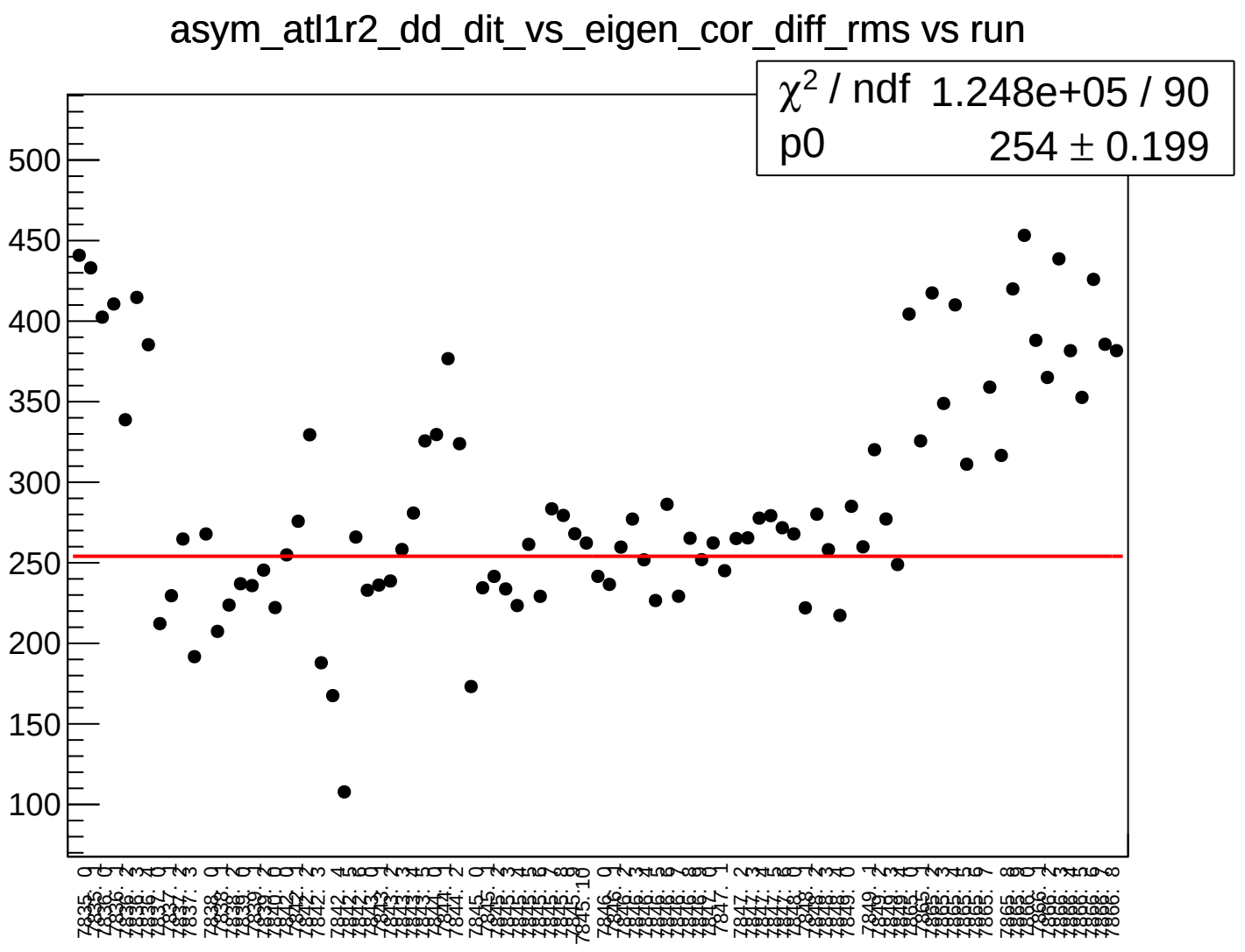

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.94 / 90
p0 0.2309 ± 0.2814
pull
Entries 91
Mean 337.8
Std Dev 0

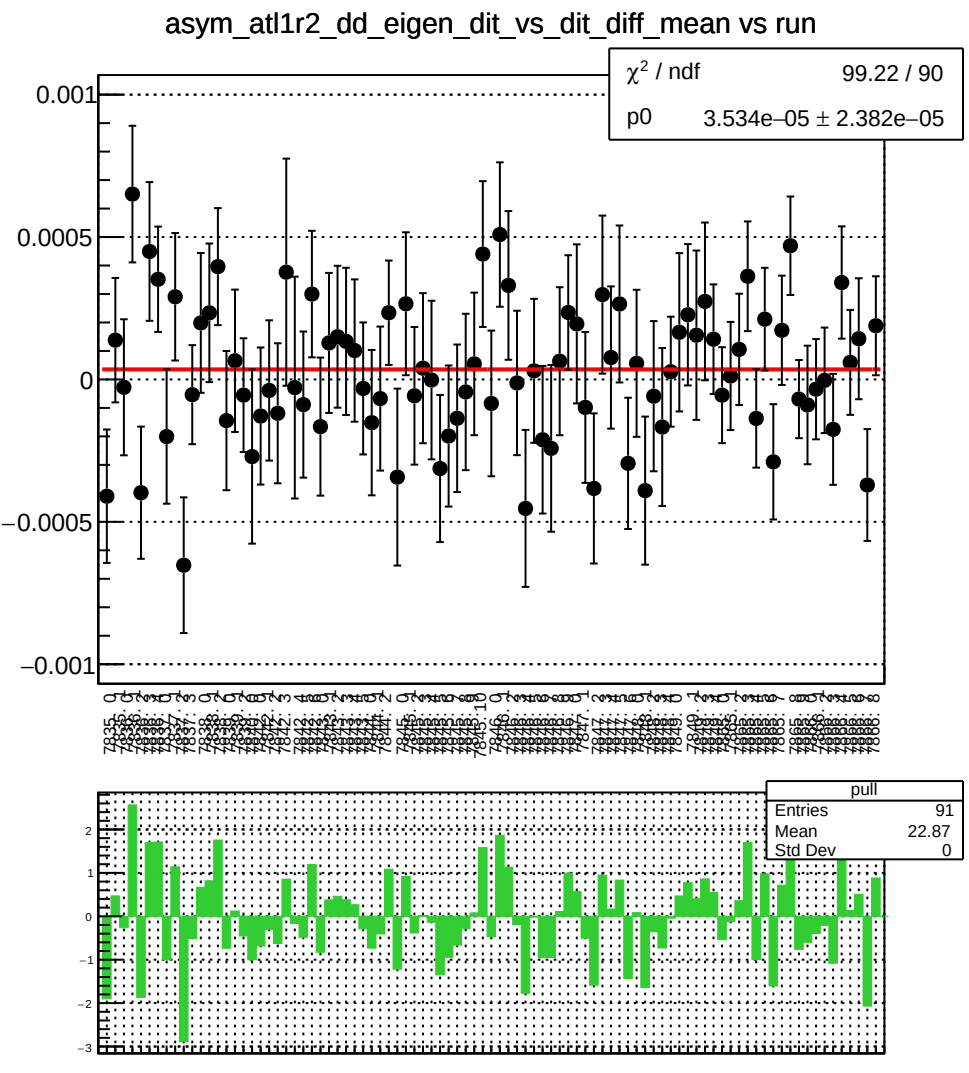

pull1D
Entries 91
Mean 0.01969
Std Dev 1.021

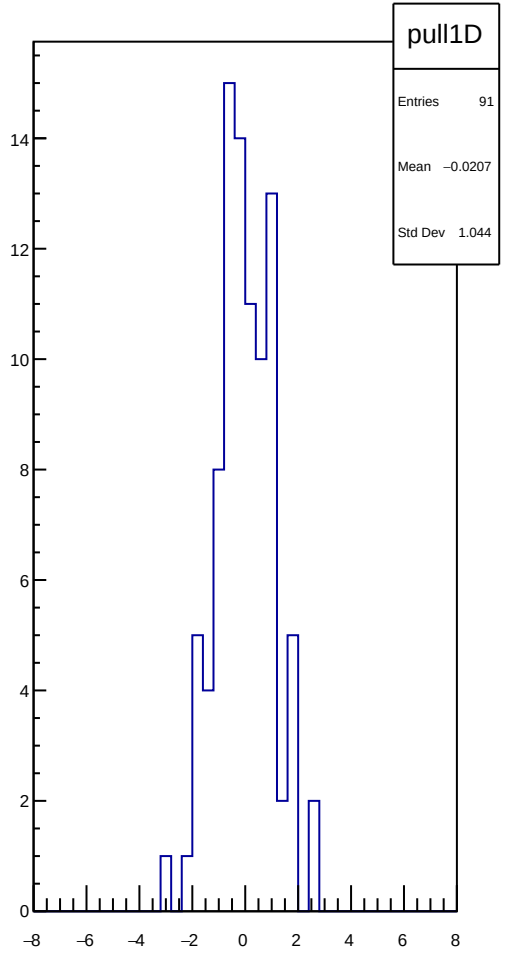

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 90
p0 254 ± 0.199
500
450
400
350
300
250
200
150
100

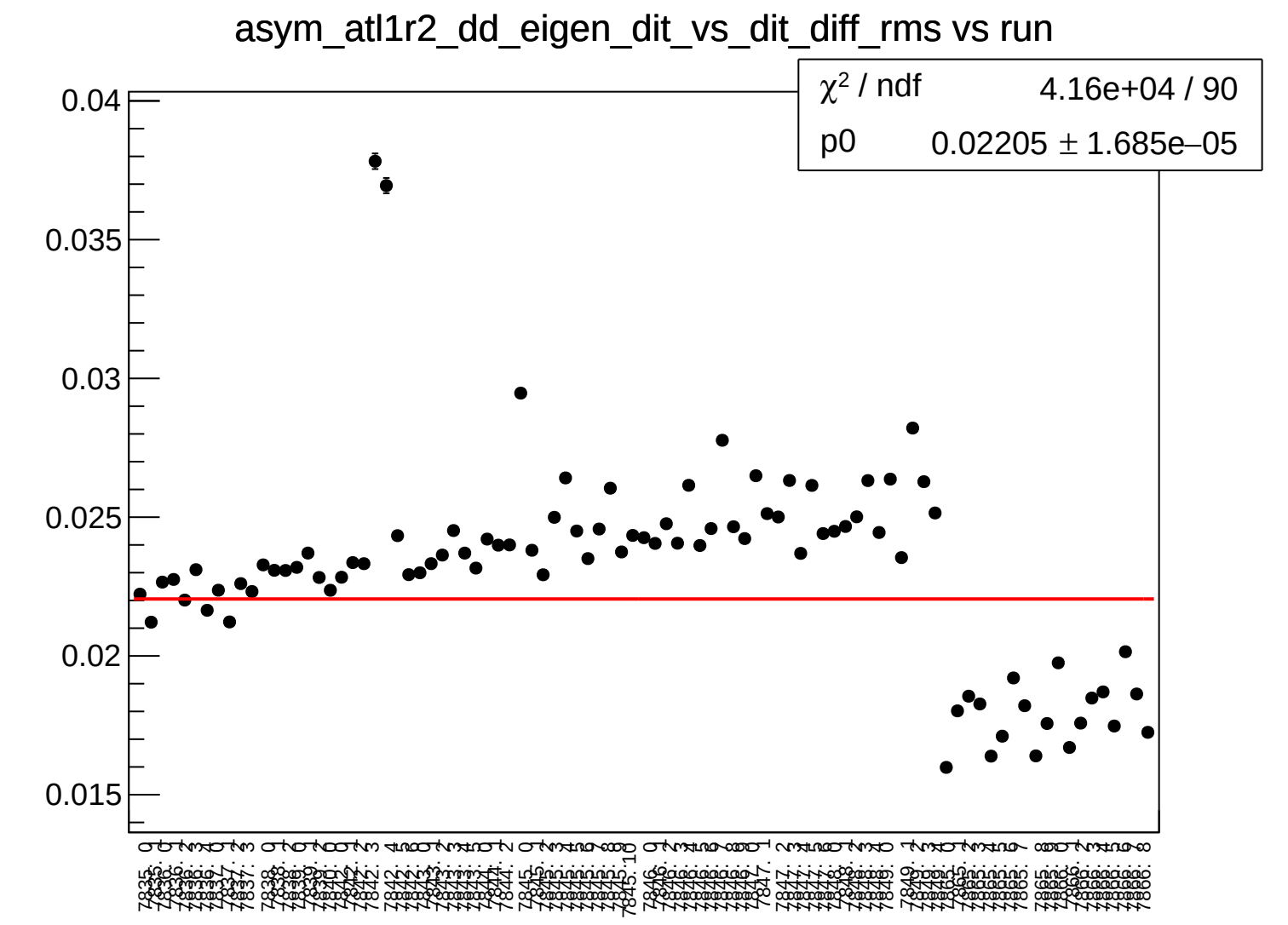

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.94 / 90
p0 0.2309 ± 0.2814
pull
Entries 91
Mean 337.8
Std Dev 0

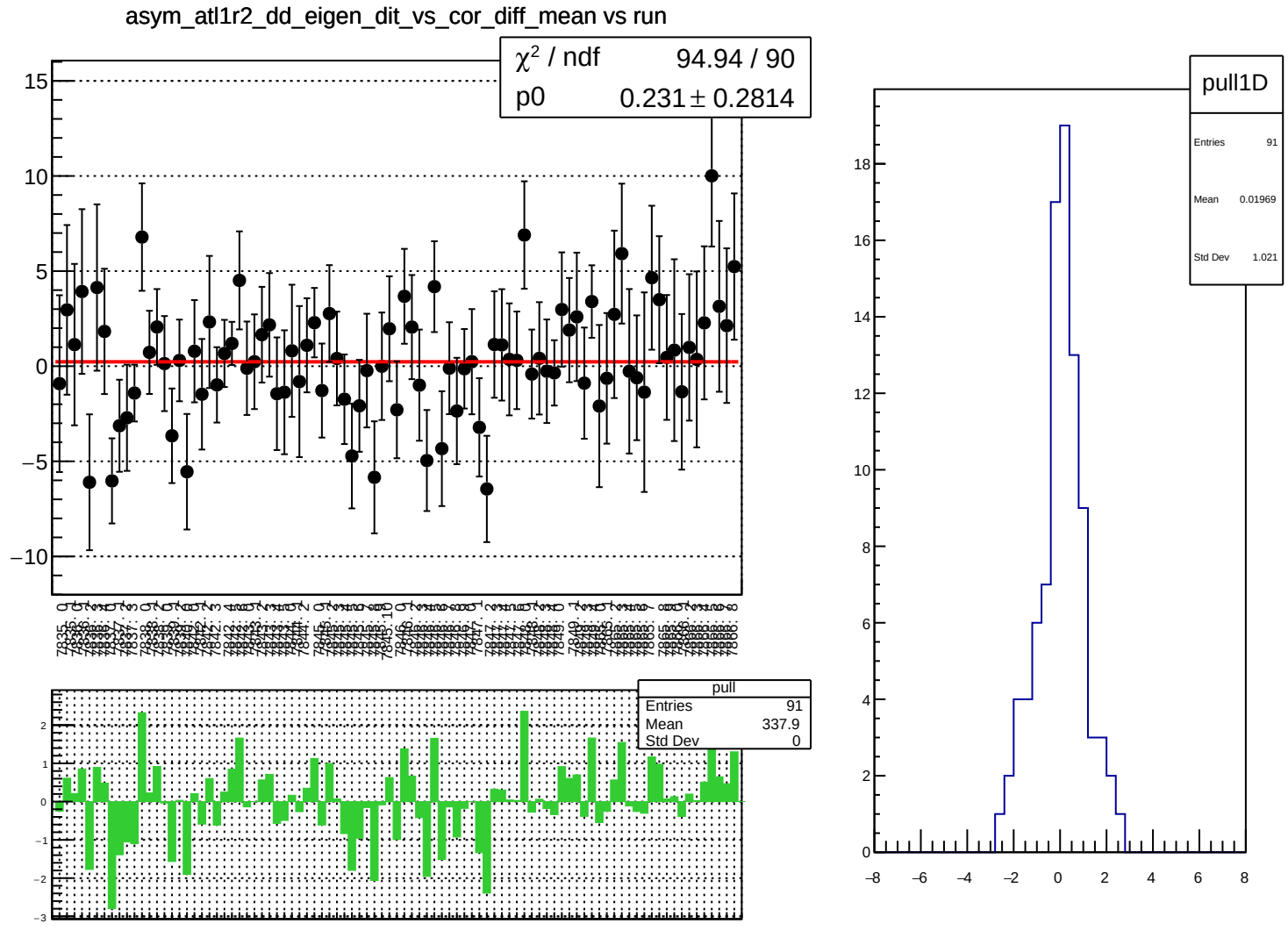

pull1D
Entries 91
Mean 0.01969
Std Dev 1.021

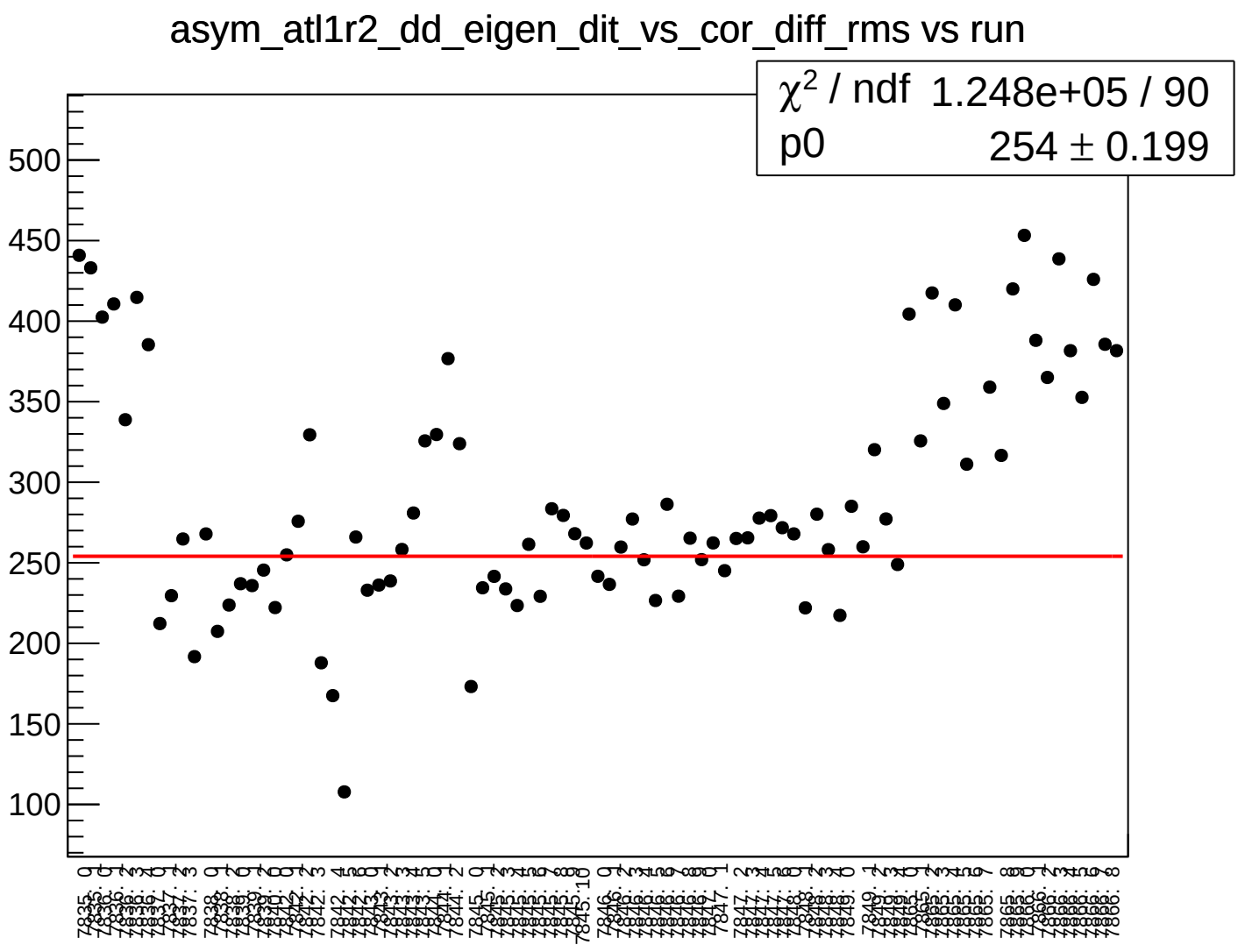

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 90
p0 254 ± 0.199
500
450
400
350
300
250
200
150
100

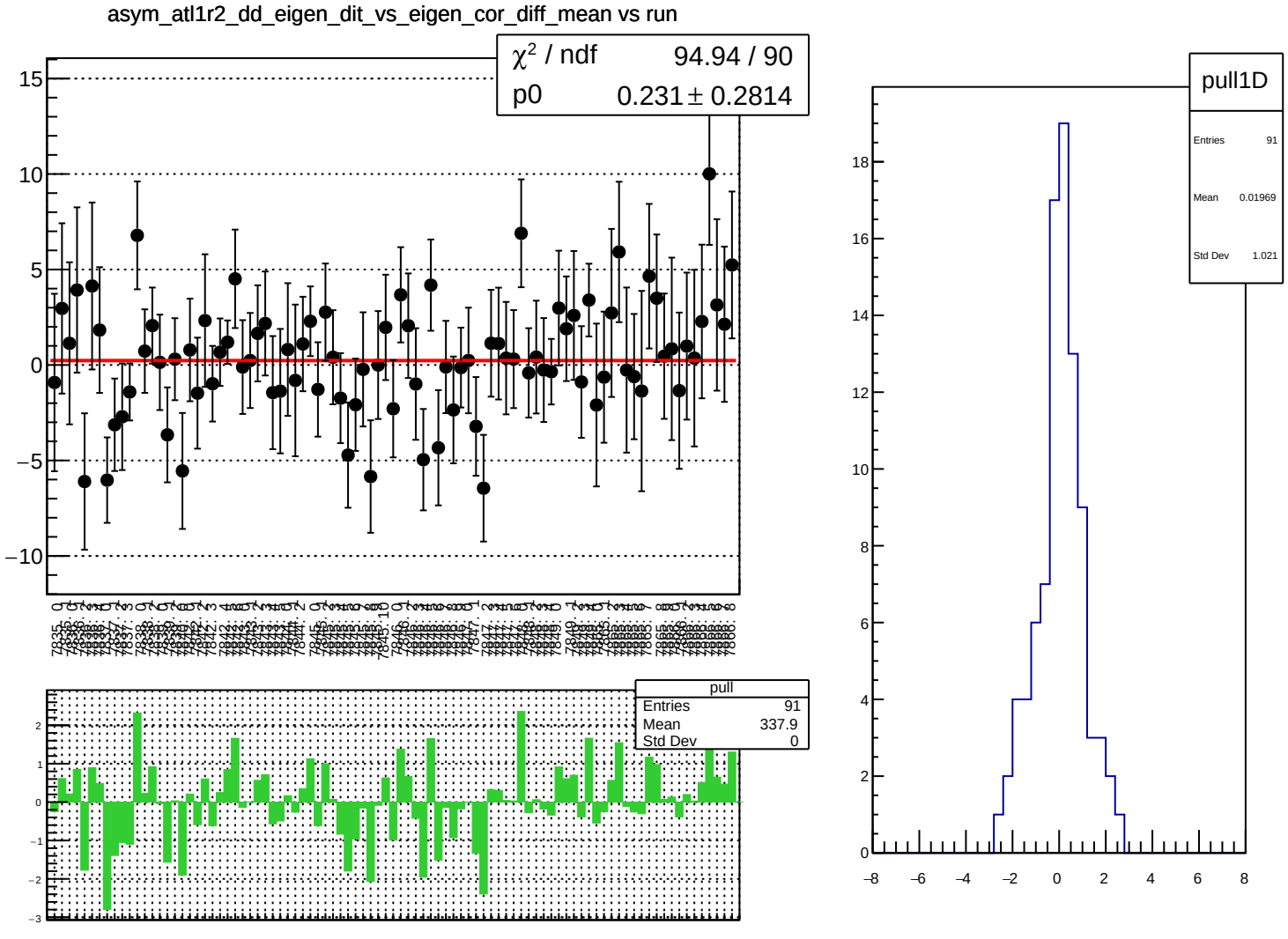

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.22 / 90
p0 3.534e−05 ± 2.382e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 22.87
Std Dev 0
2
1
0
−1
−2
−3

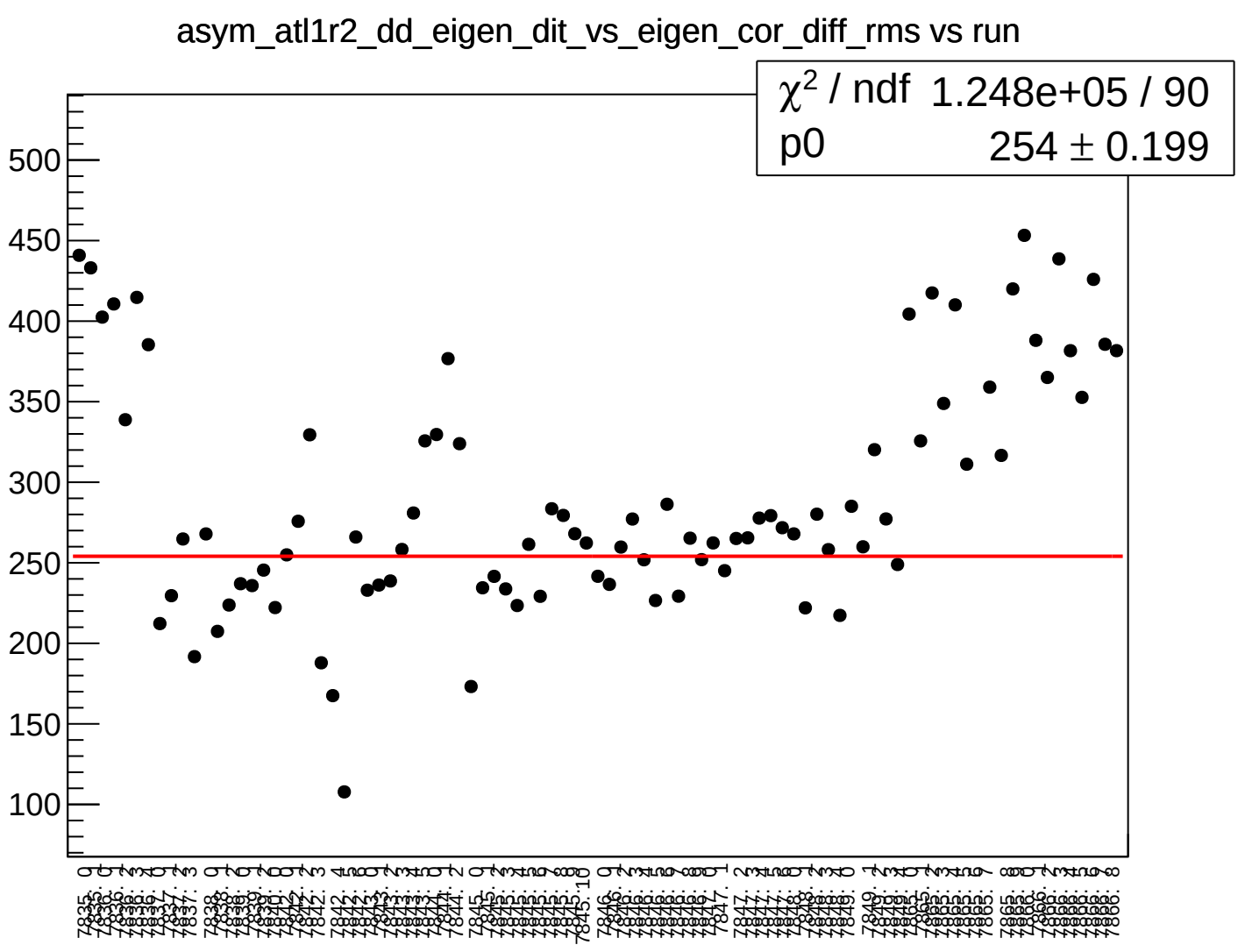

pull1D
Entries 91
Mean −0.0207
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

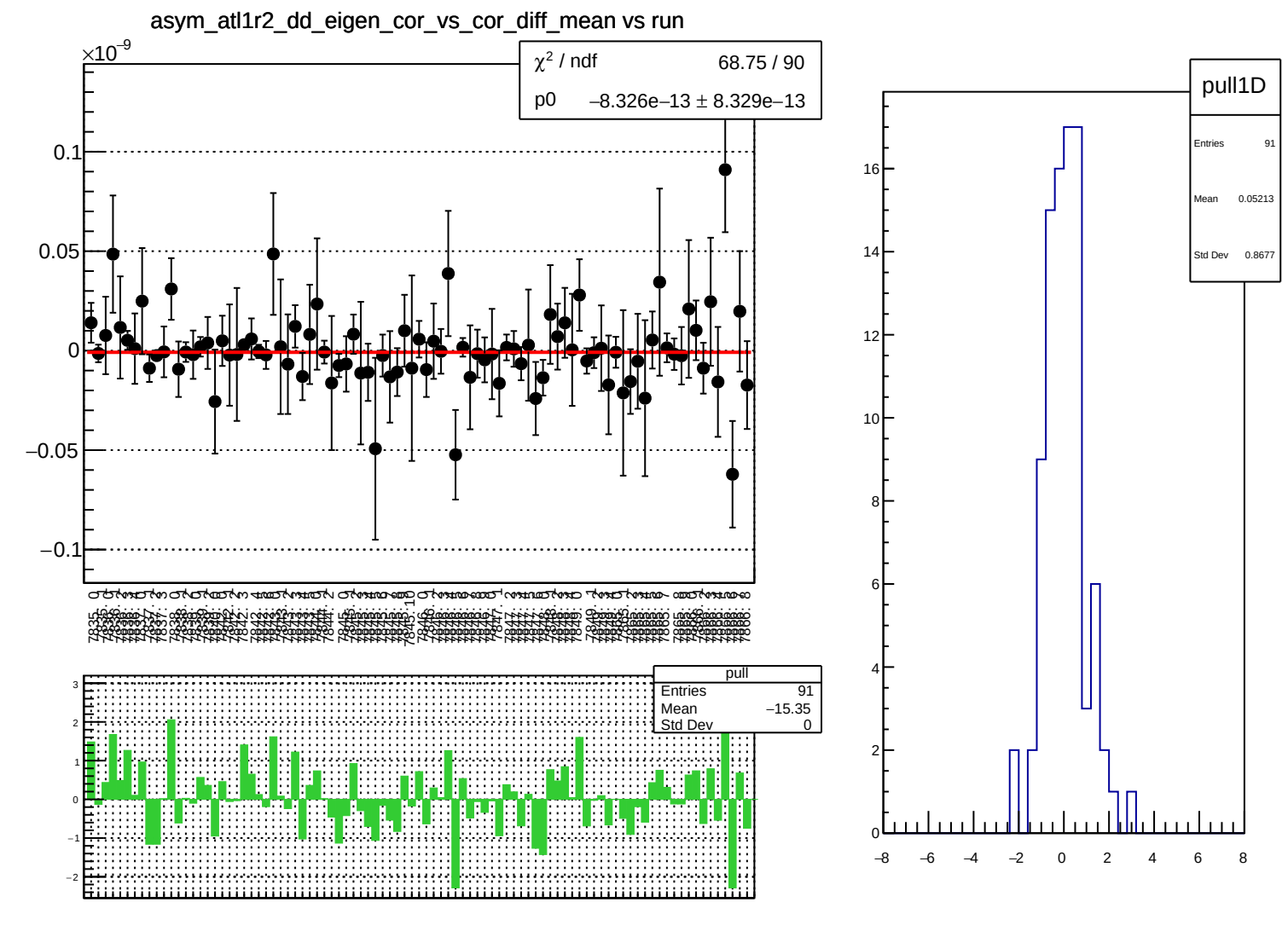

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.16e+04 / 90
p0 0.02205 ± 1.685e−05
0.04
0.035
0.03
0.025
0.02
0.015

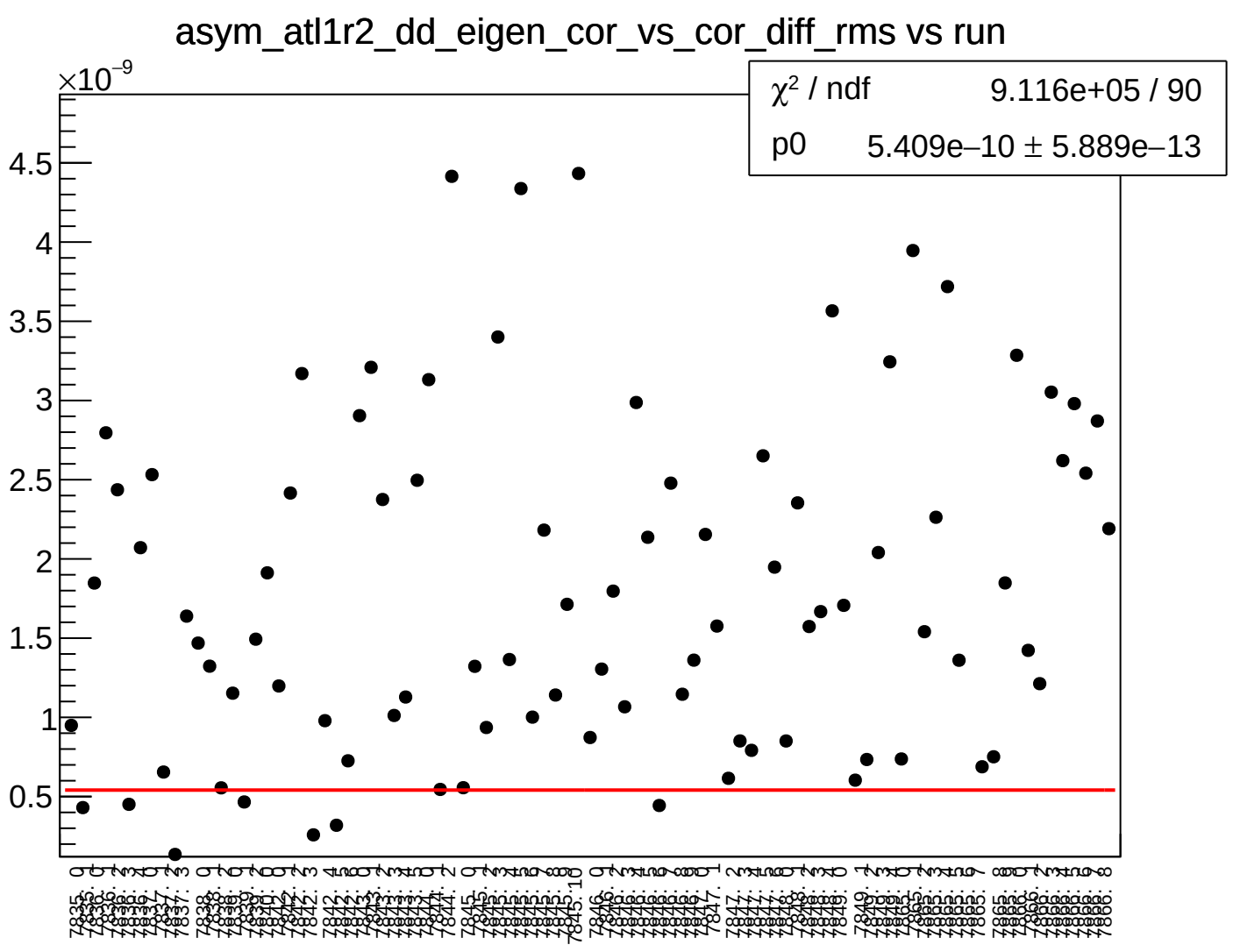

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.94 / 90
p0 0.231 ± 0.2814
pull
Entries 91
Mean 337.9
Std Dev 0
pull1D
Entries 91
Mean 0.01969
Std Dev 1.021

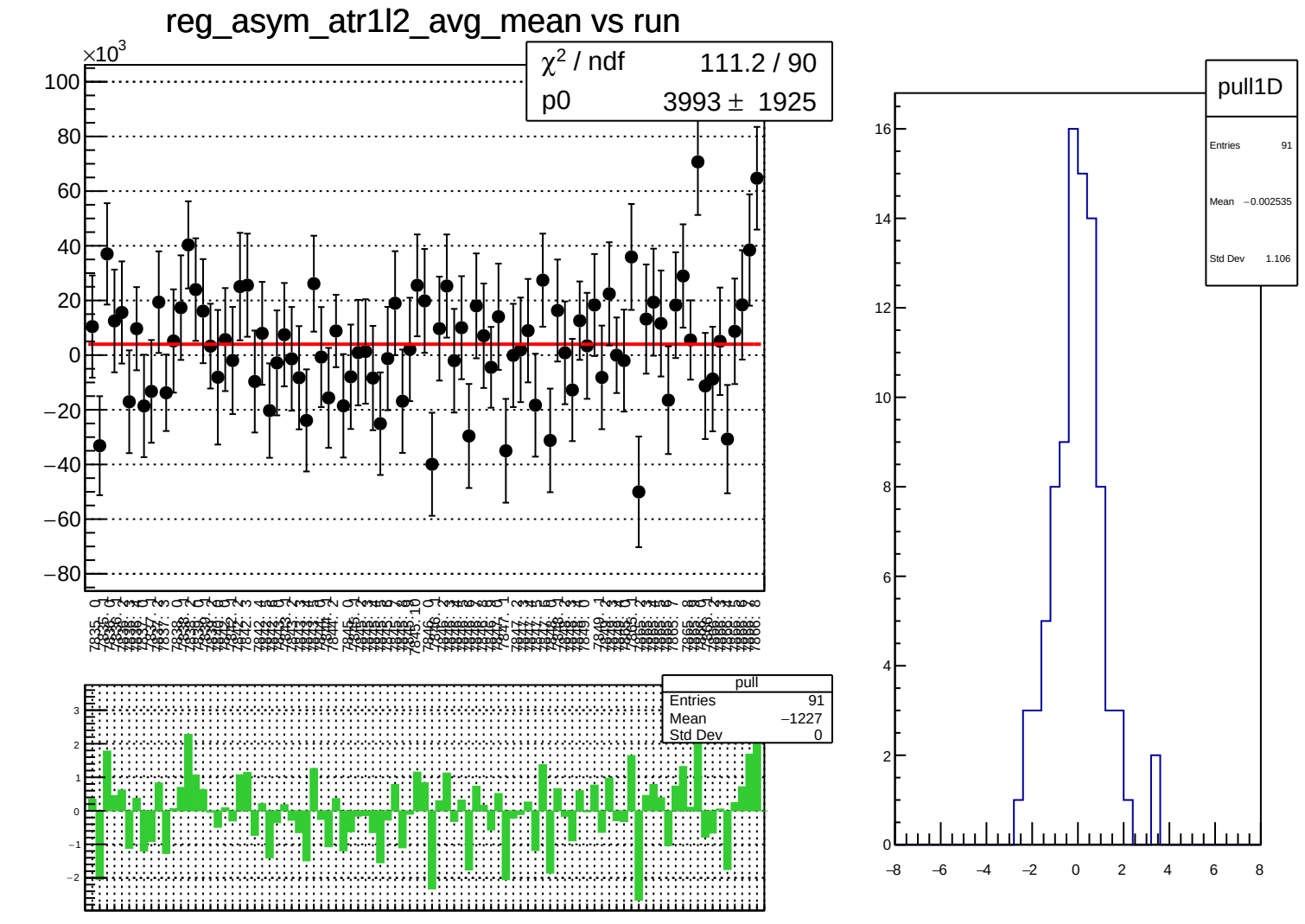

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 90
p0 254 ± 0.199
500
450
400
350
300
250
200
150
100

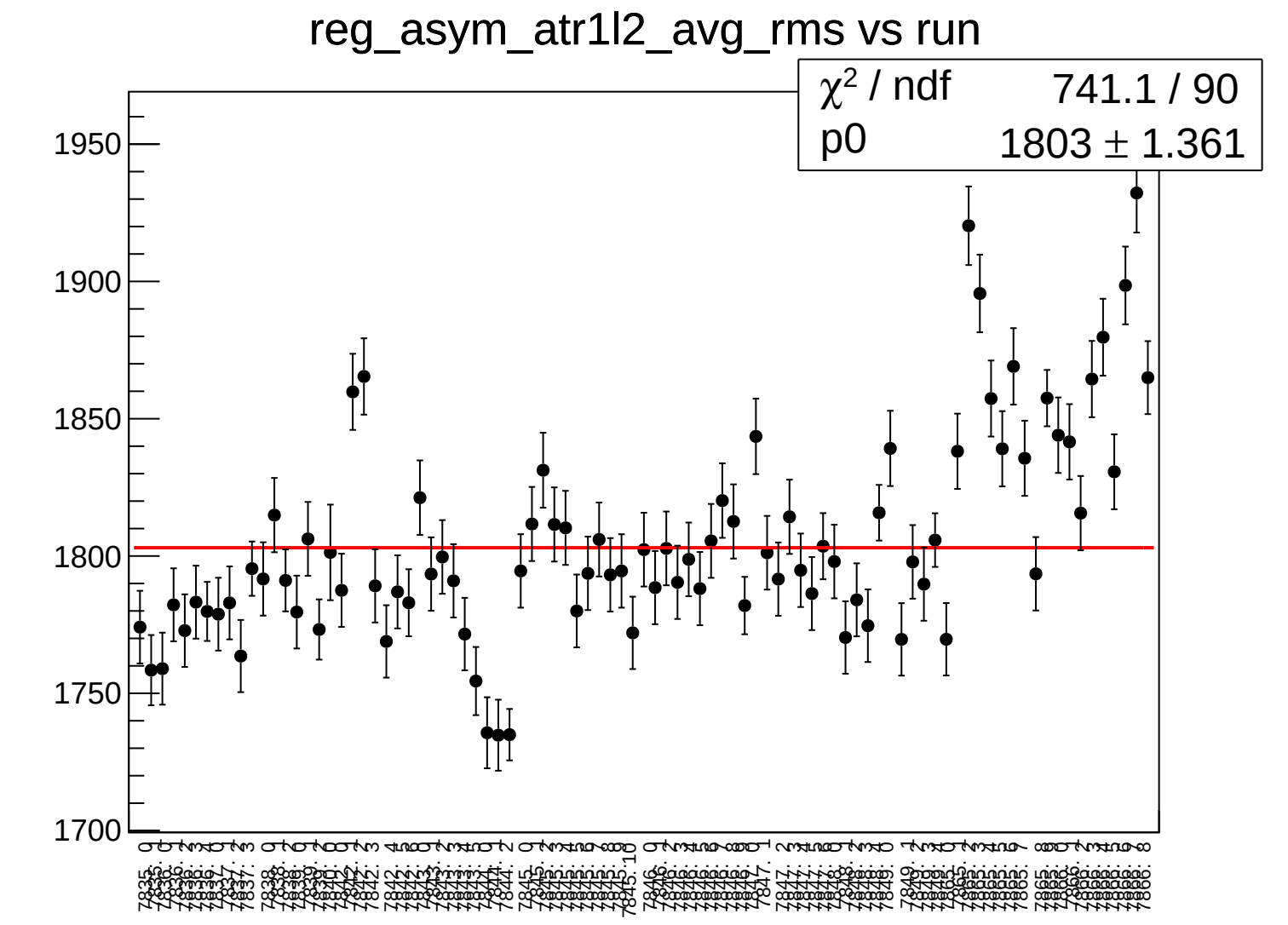

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.94 / 90
p0 0.231 ± 0.2814
pull
Entries 91
Mean 337.9
Std Dev 0
pull1D
Entries 91
Mean 0.01969
Std Dev 1.021

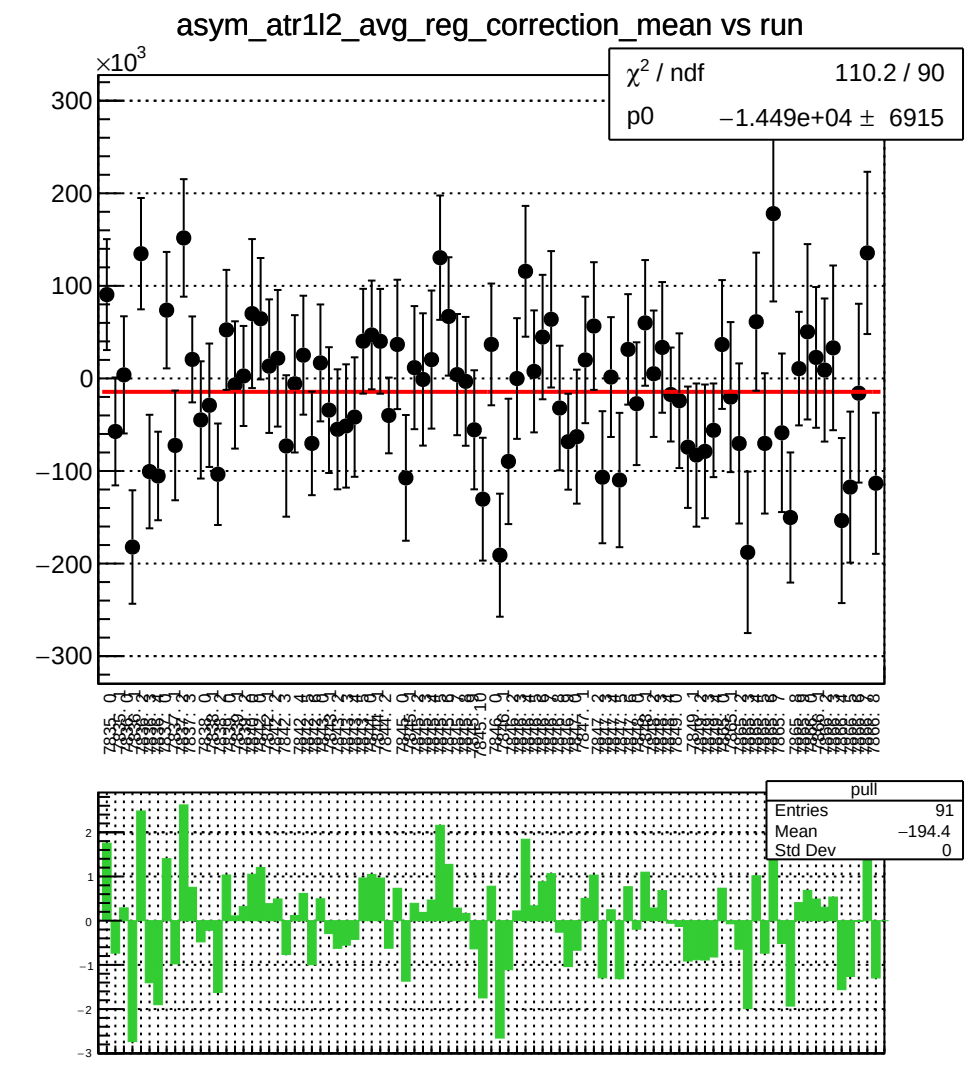

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 90
p0 254 ± 0.199
500
450
400
350
300
250
200
150
100

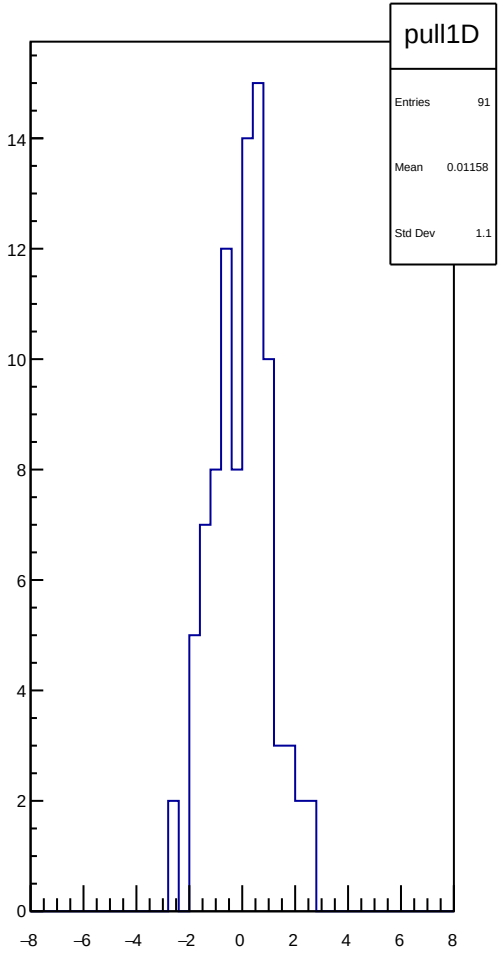

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 68.75 / 90
p0 −8.326e−13 ± 8.329e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −15.35
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.05213
Std Dev 0.8677
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

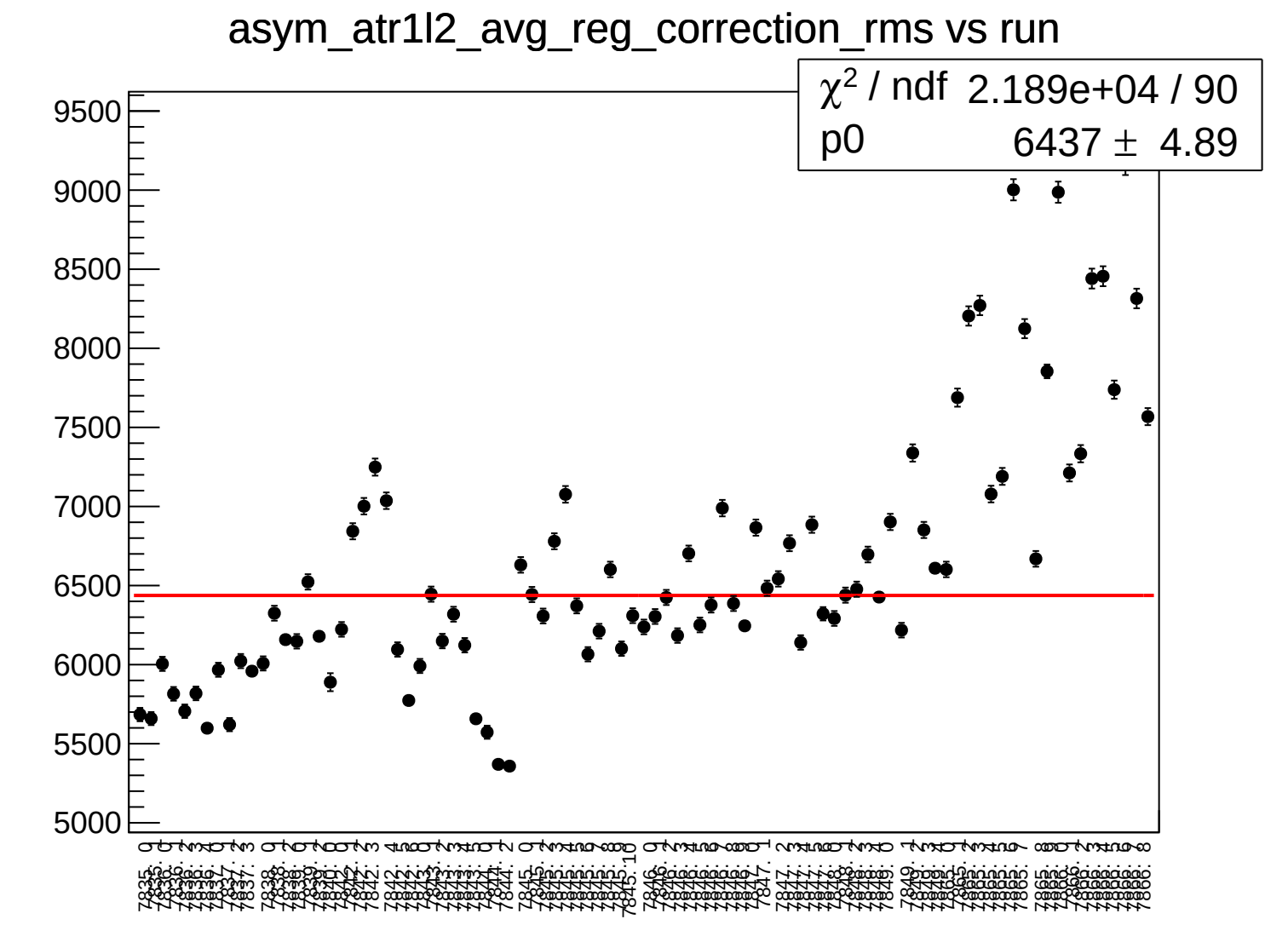

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.116e+05 / 90
p0 5.409e−10 ± 5.889e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

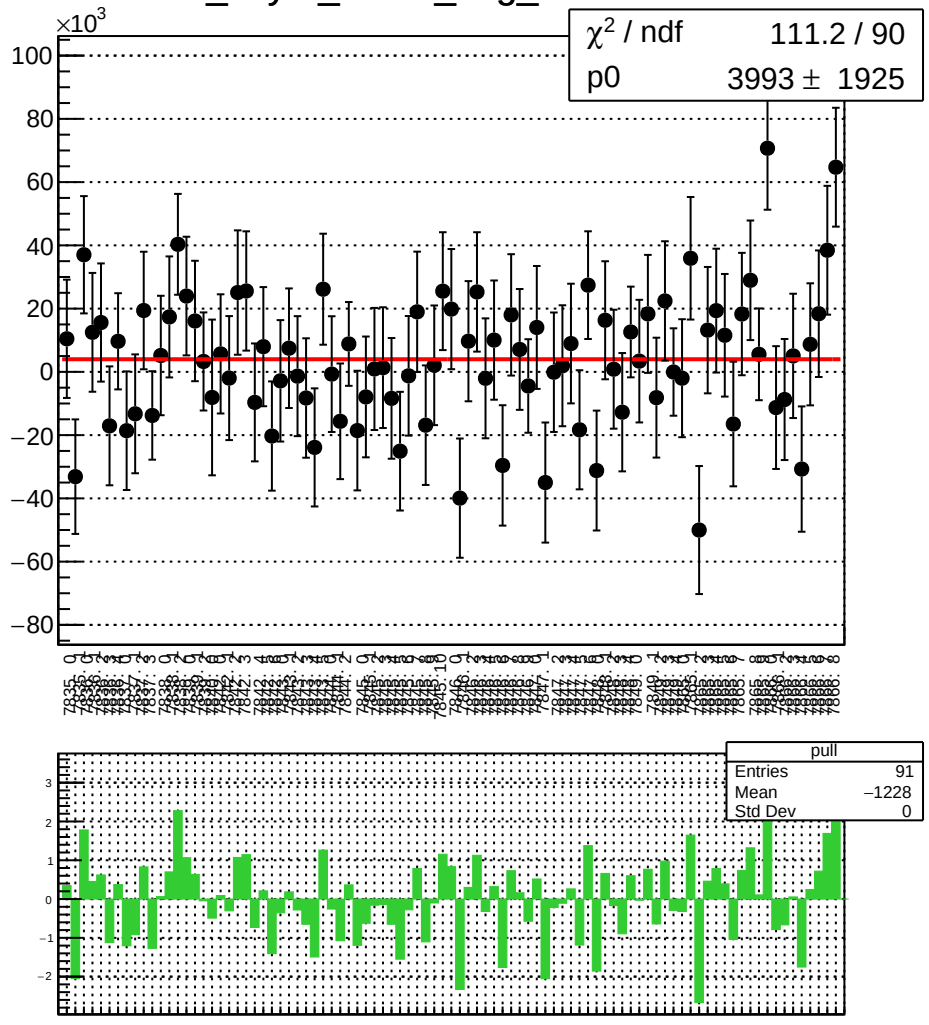

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 111.2 / 90
p0 3993 ± 1925
pull
Entries 91
Mean −1227
Std Dev 0
pull1D
Entries 91
Mean −0.002535
Std Dev 1.106

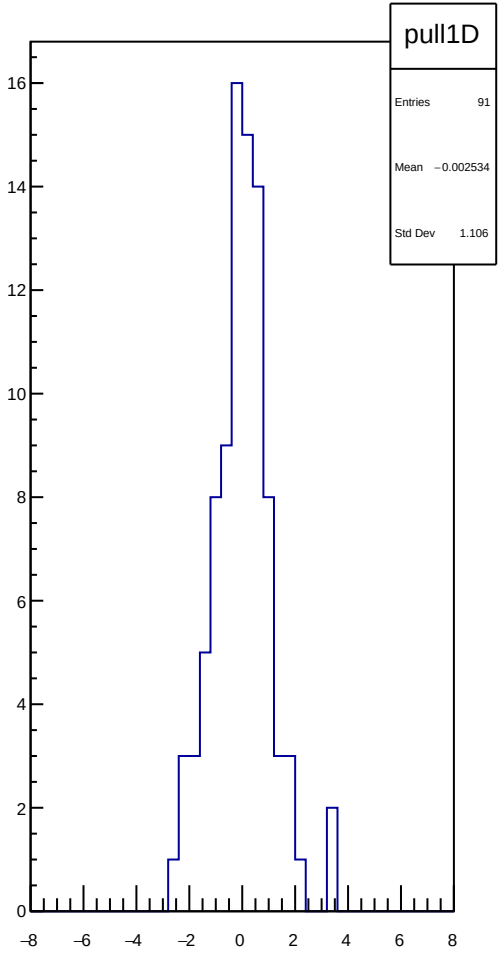

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 741.1 / 90
p0 1803 ± 1.361
1950
1900
1850
1800
1750
1700

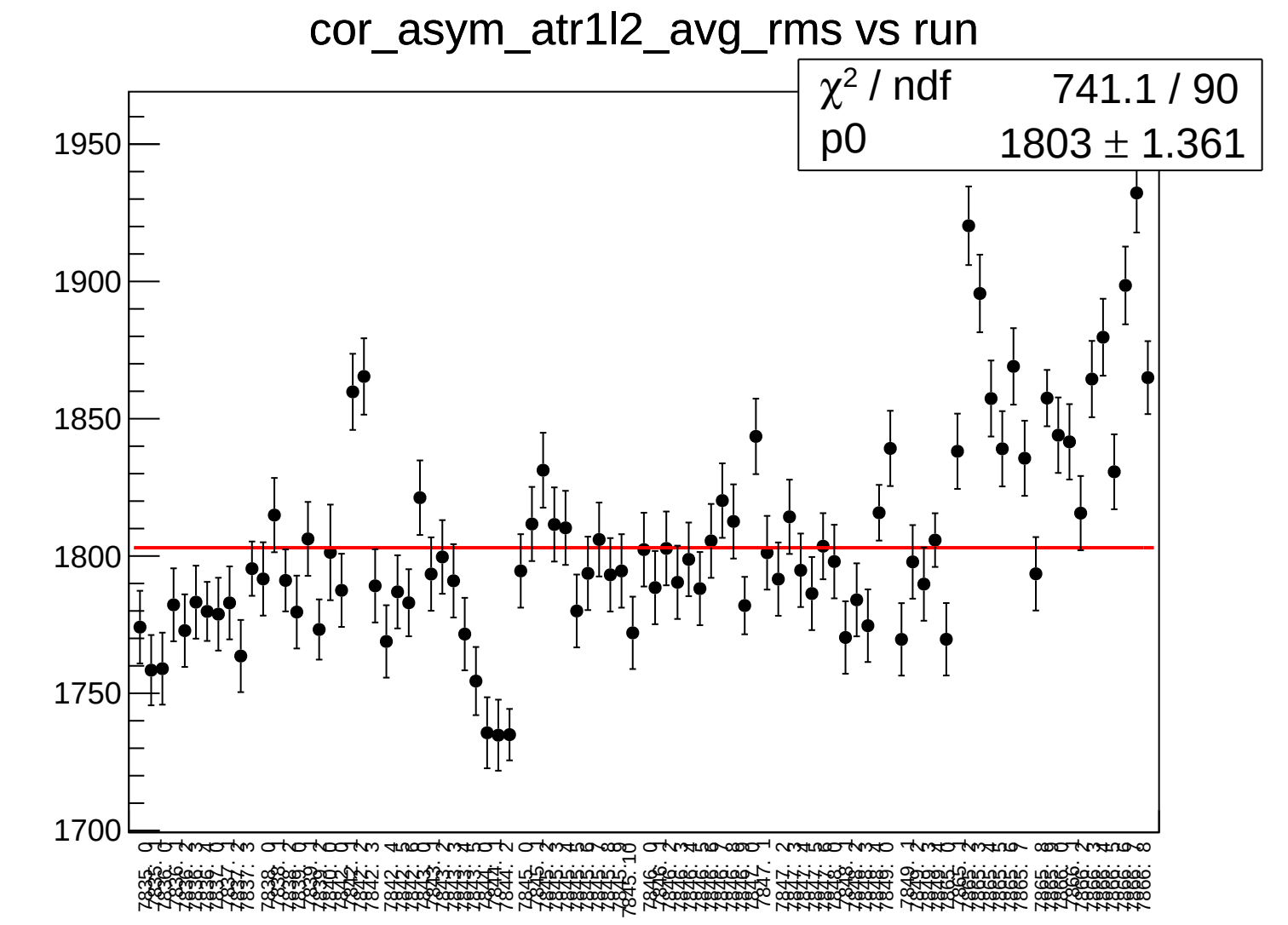

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 110.2 / 90
p0 −1.449e+04 ± 6915
pull
Entries 91
Mean −194.4
Std Dev 0

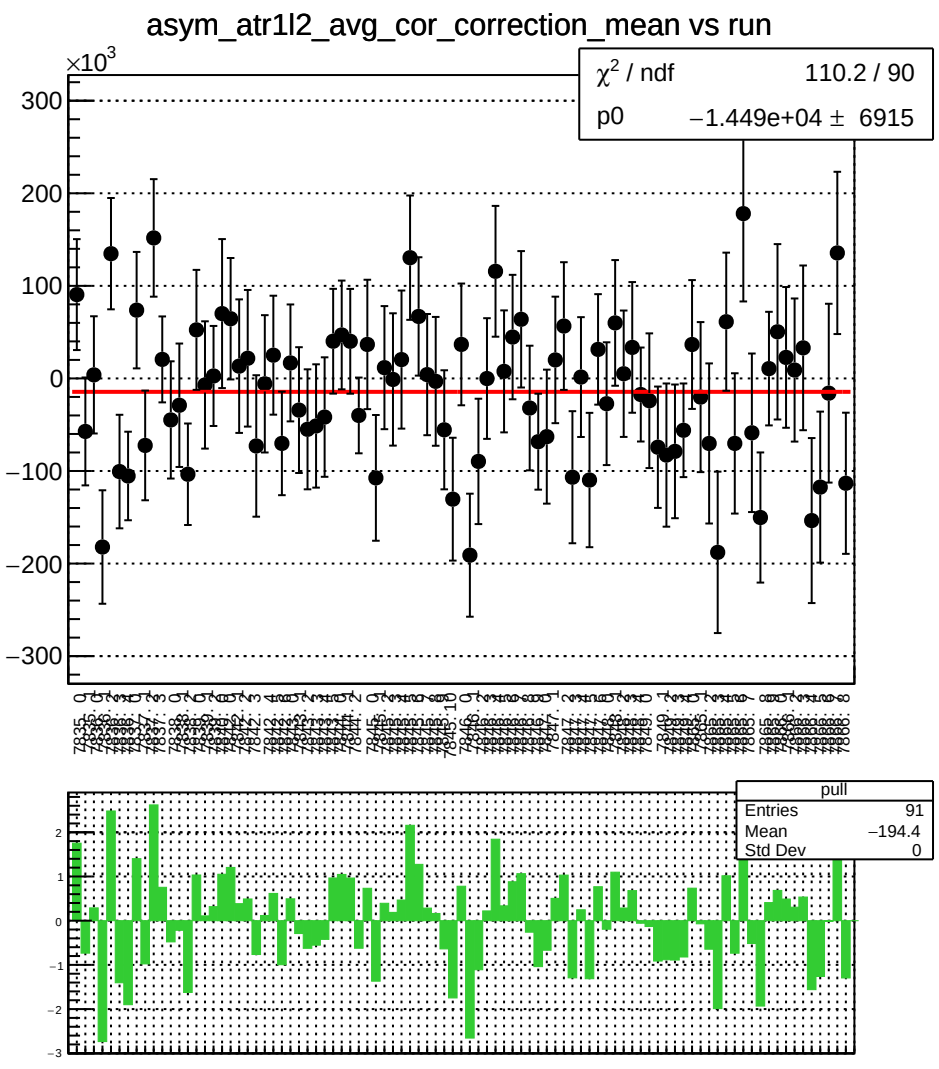

pull1D
Entries 91
Mean 0.01158
Std Dev 1.1

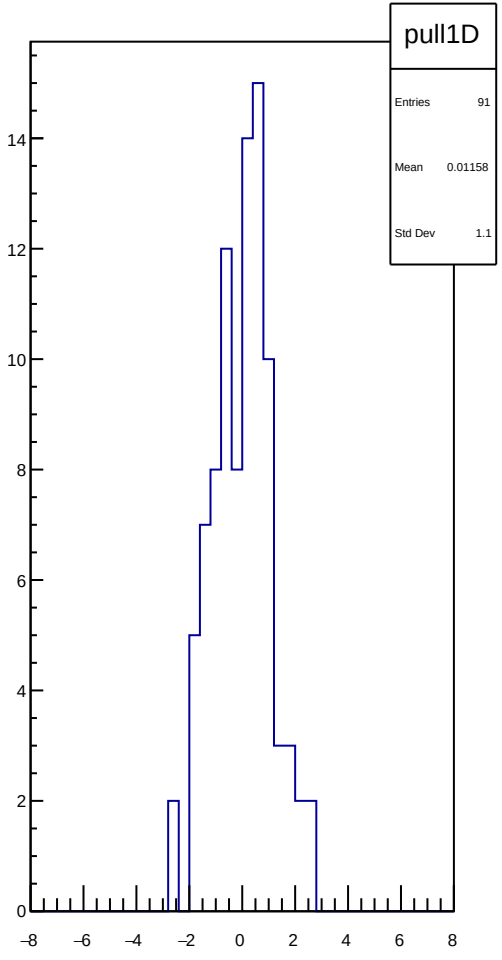

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 2.189e+04 / 90
p0 6437 ± 4.89
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

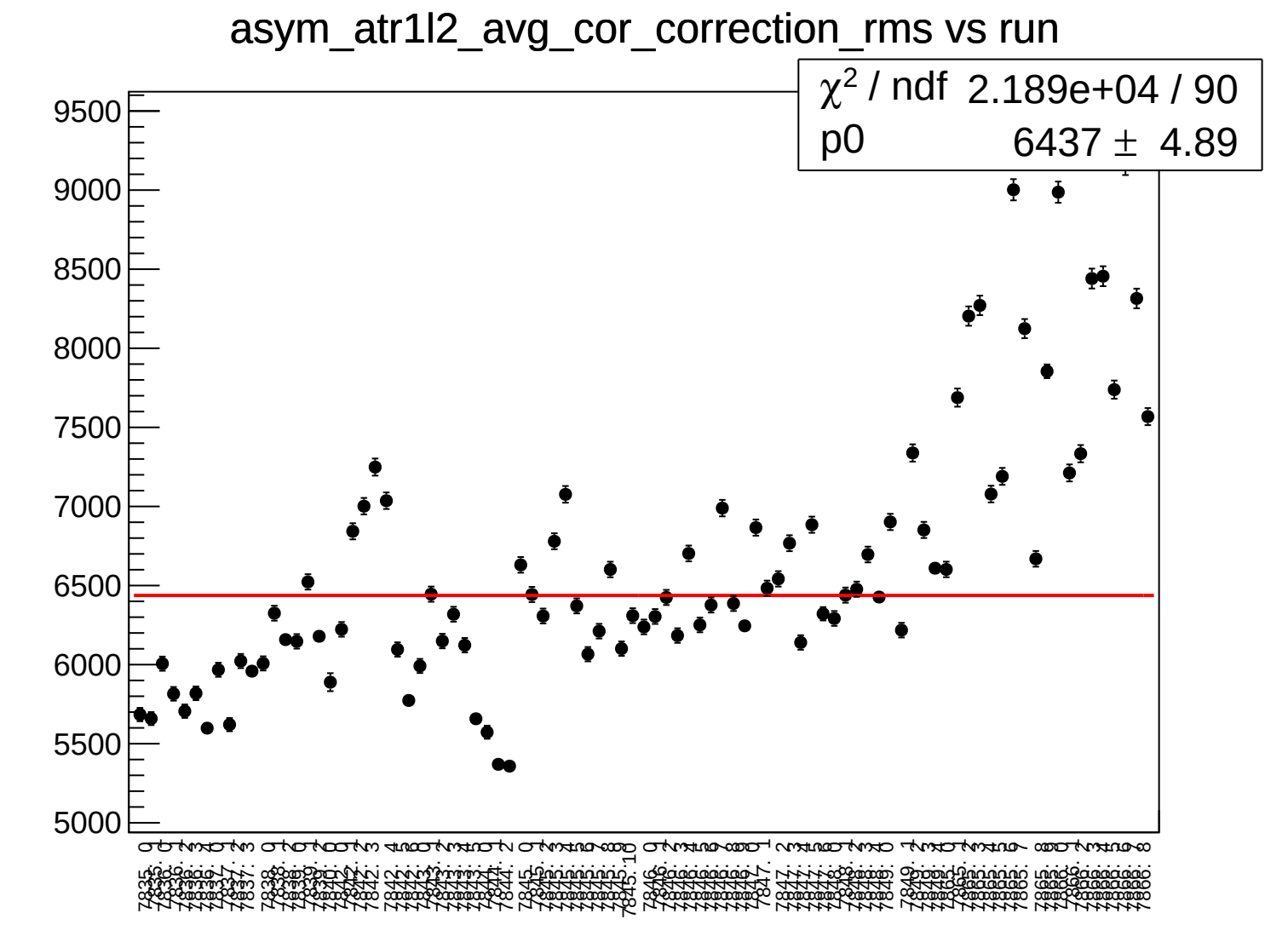

cor_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 111.2 / 90
p0 3993 ± 1925
pull
Entries 91
Mean −1228
Std Dev 0

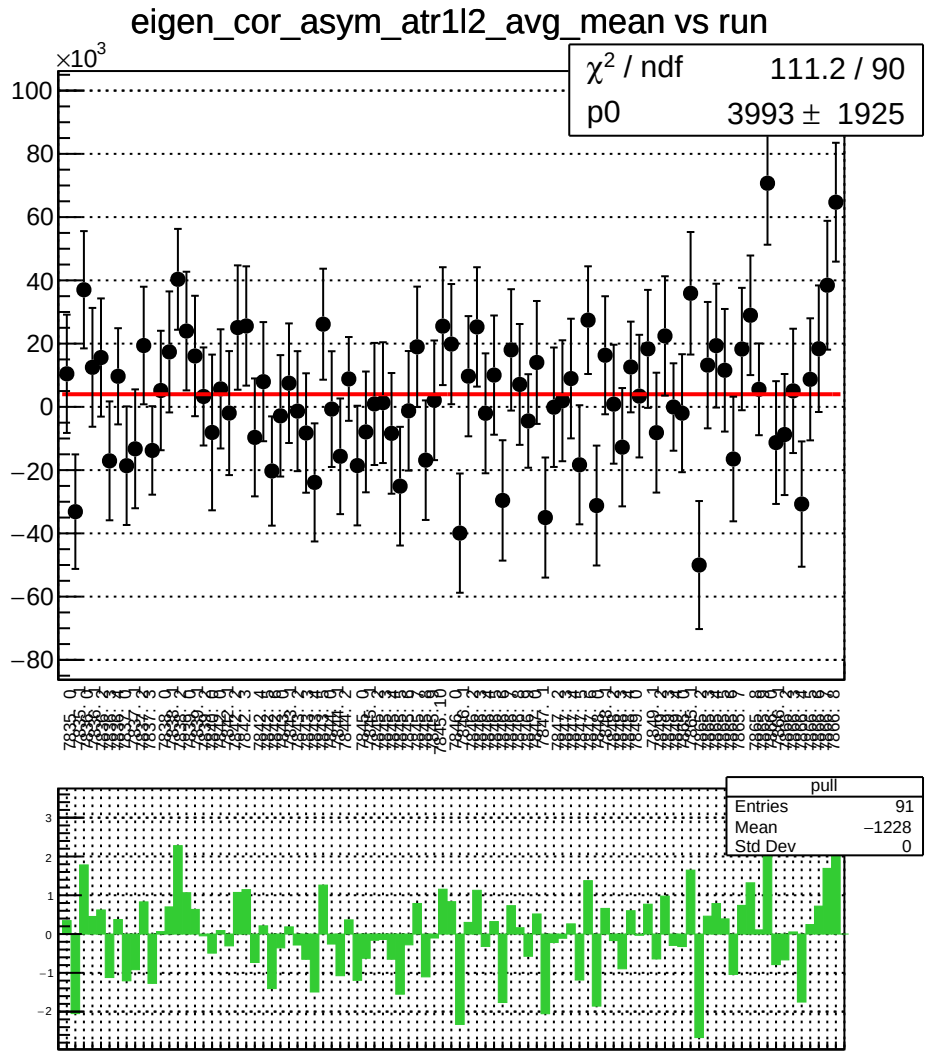

pull1D
Entries 91
Mean −0.002534
Std Dev 1.106

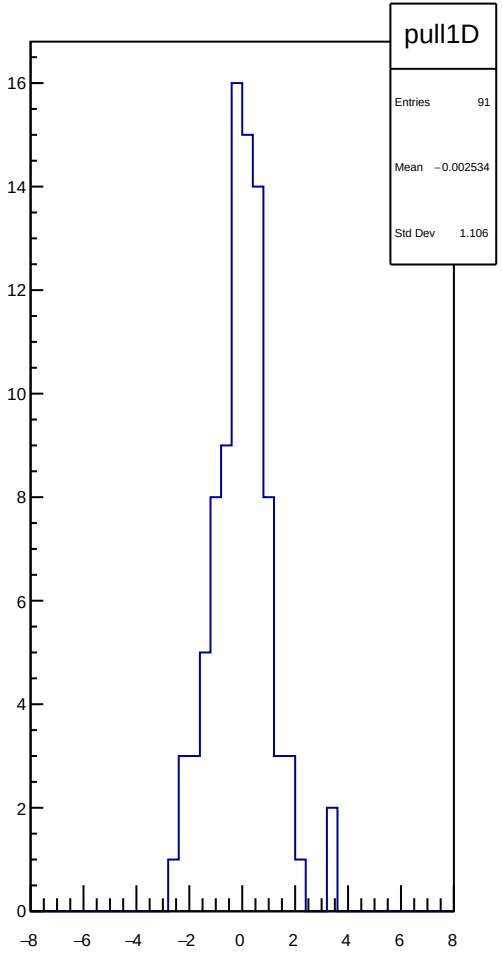

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 741.1 / 90
p0 1803 ± 1.361
1950
1900
1850
1800
1750
1700

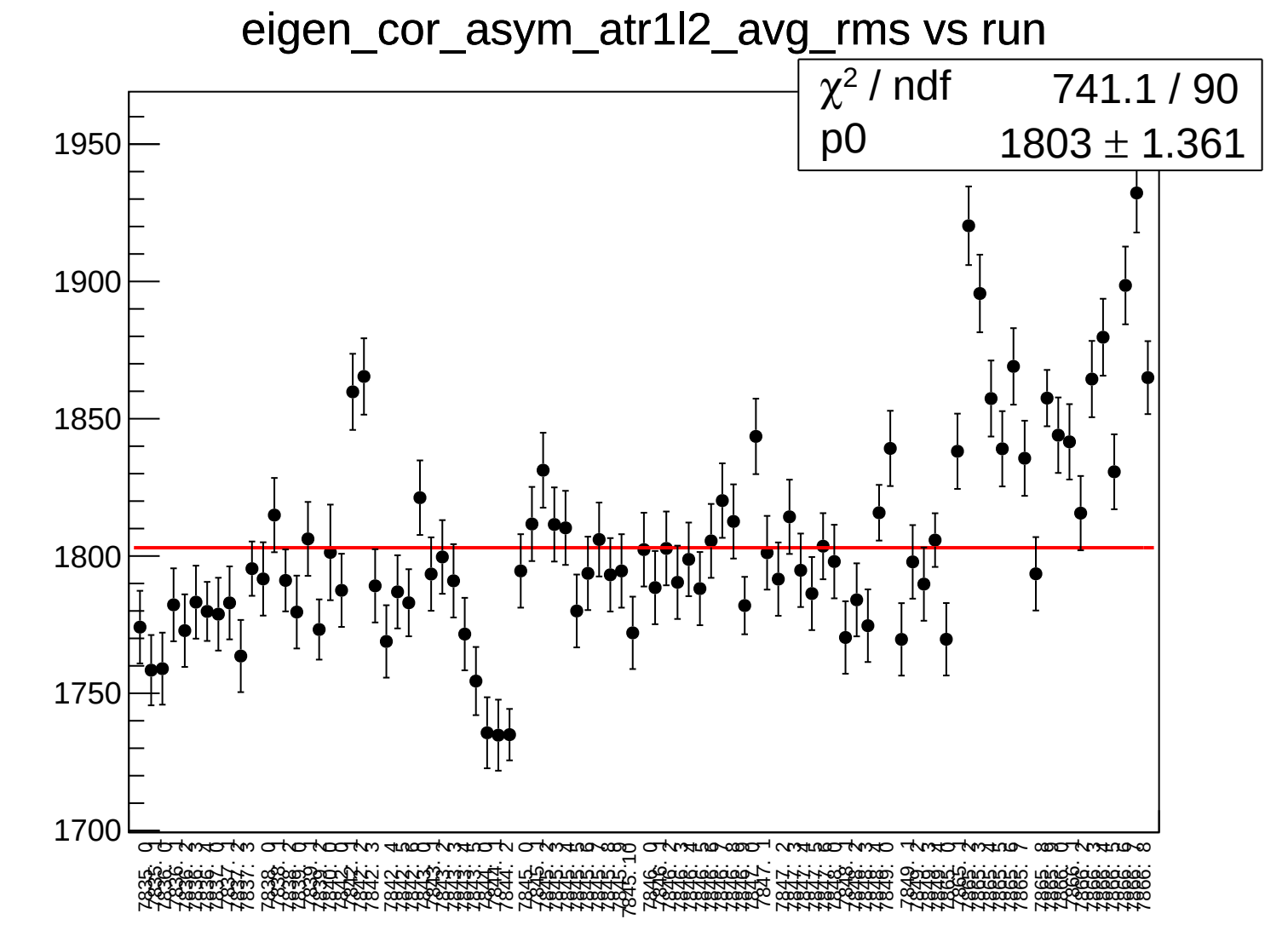

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 110.2 / 90
p0 −1.449e+04 ± 6915
pull
Entries 91
Mean −194.4
Std Dev 0

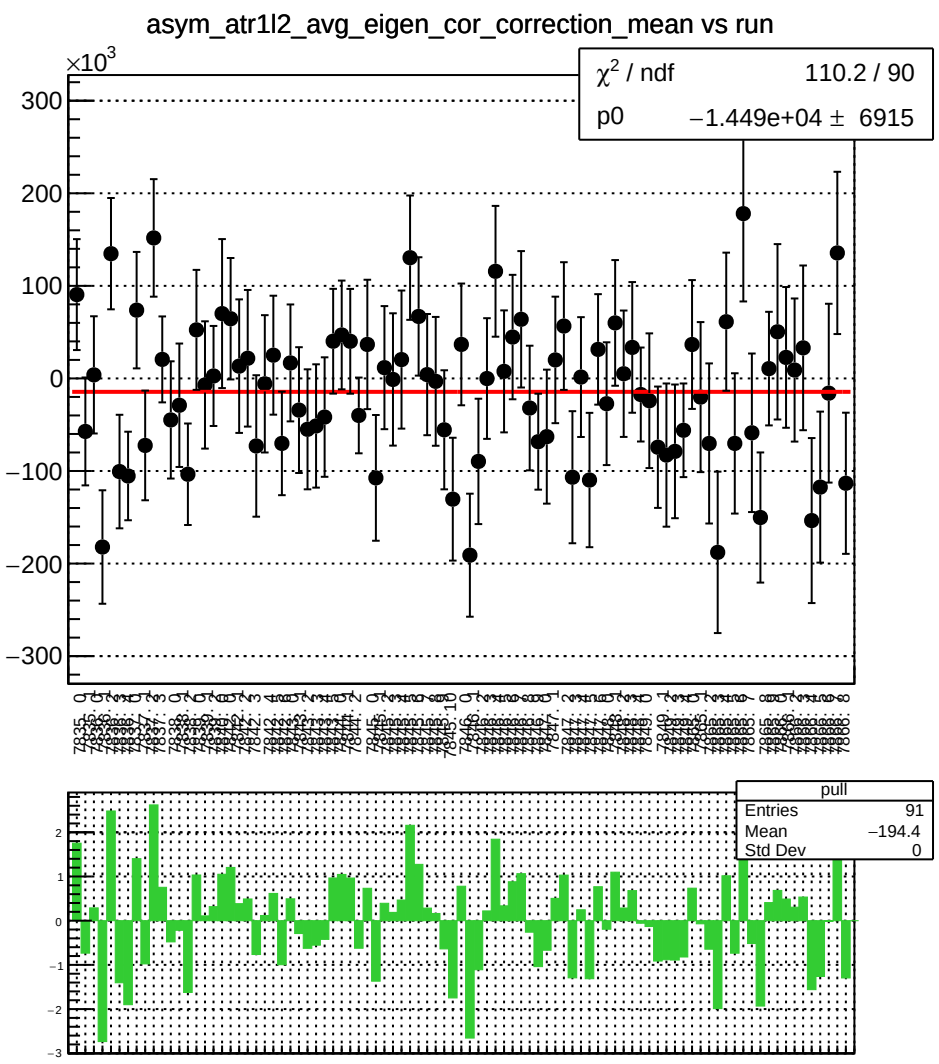

pull1D
Entries 91
Mean 0.01158
Std Dev 1.1

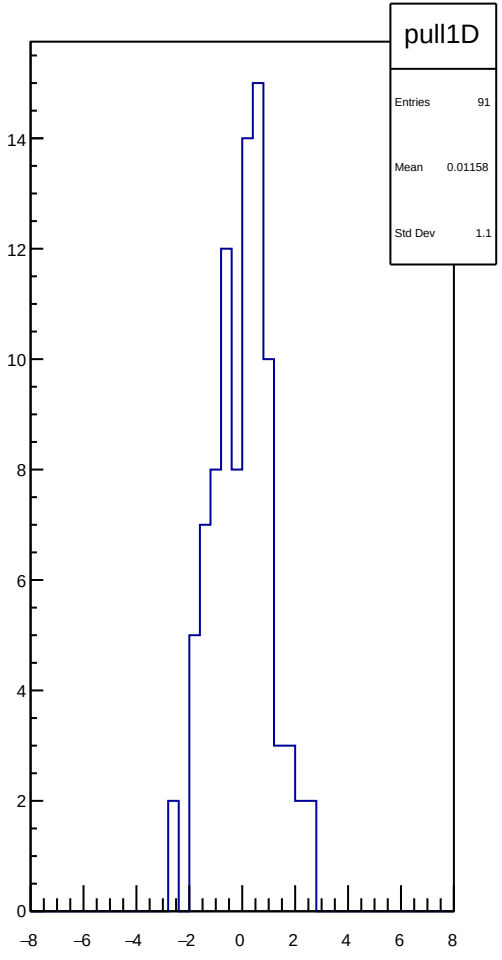

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2.189e+04 / 90
p0 6437 ± 4.89
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

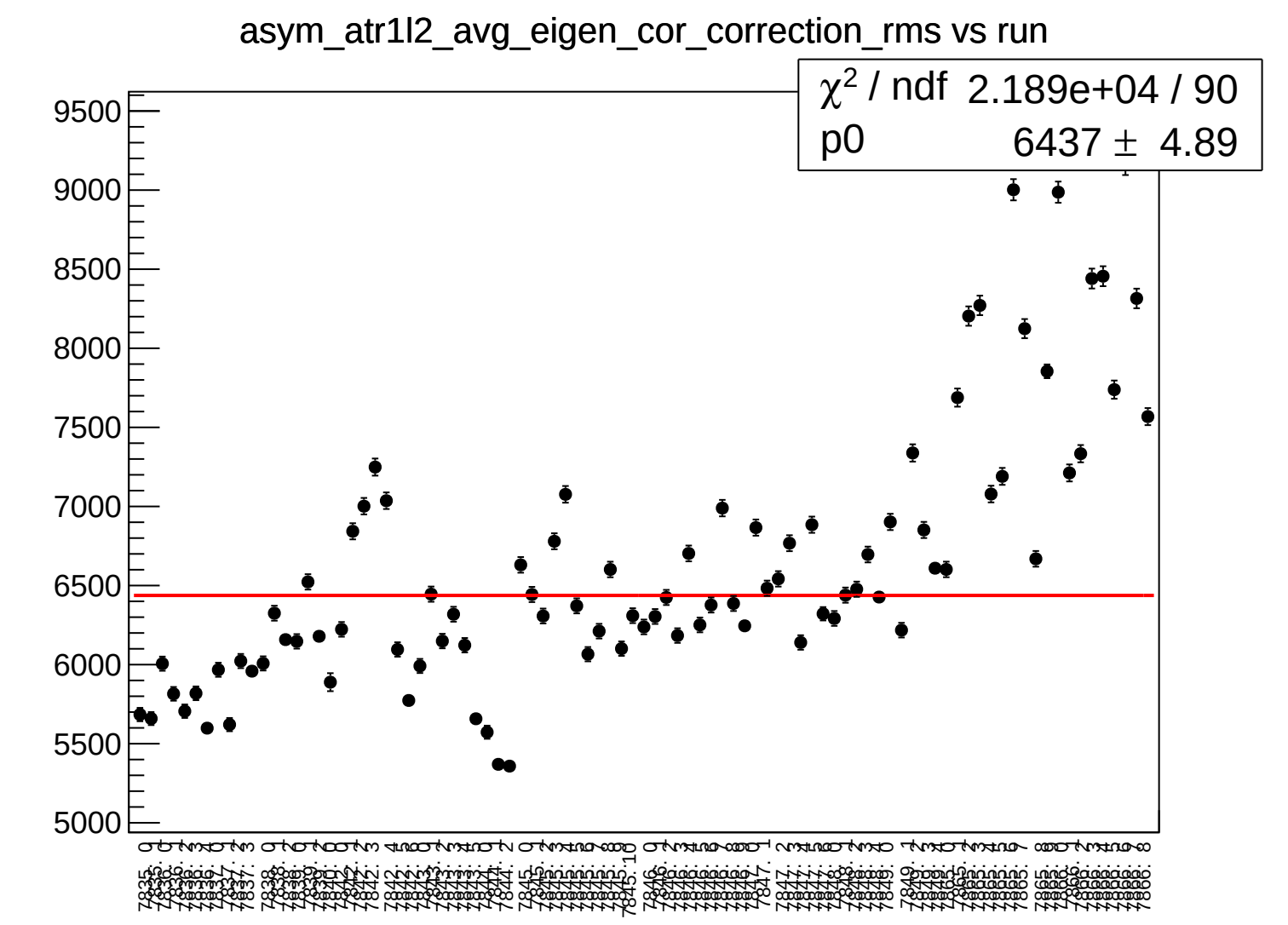

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 111.2 / 90
p0 3993 ± 1925
×10³
pull
Entries 91
Mean −1228
Std Dev 0

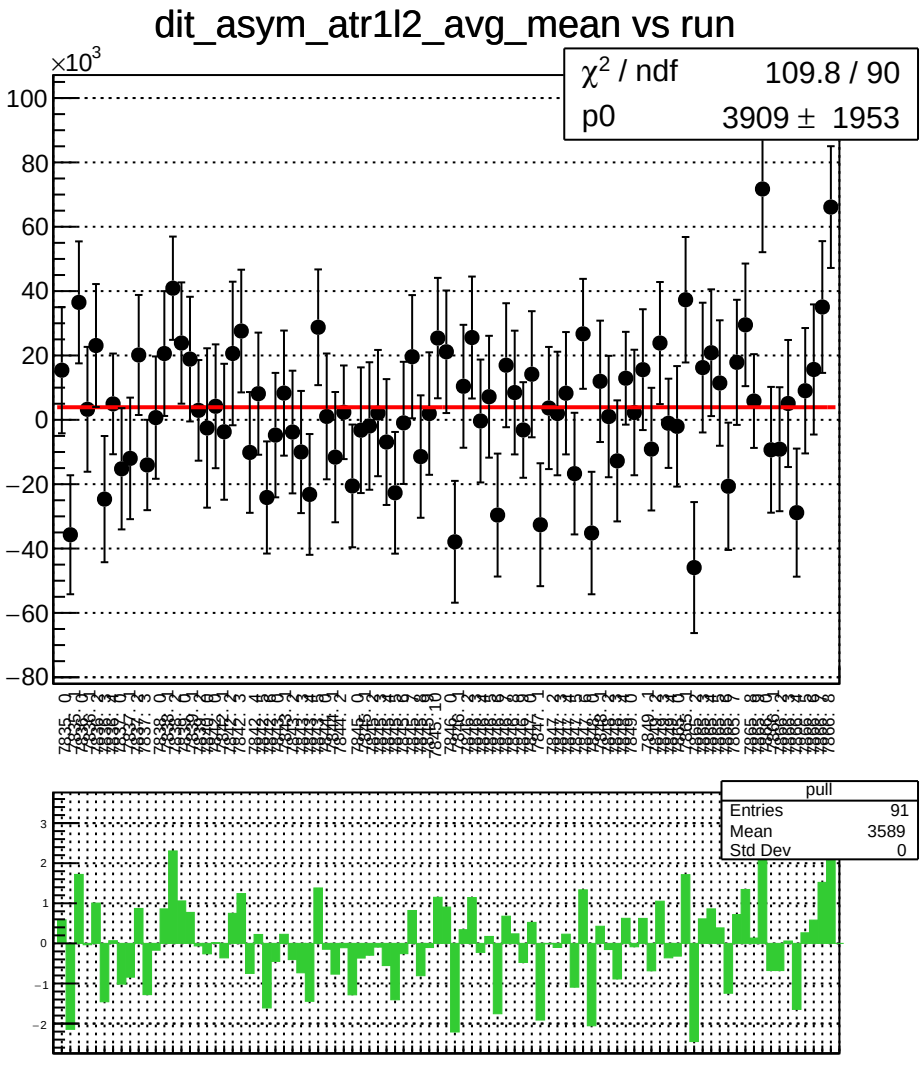

pull1D
Entries 91
Mean −0.002534
Std Dev 1.106

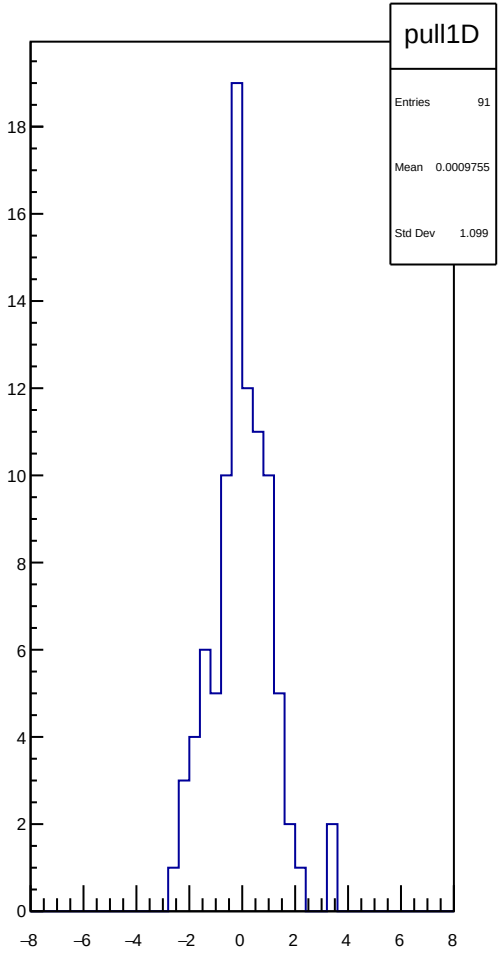

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 741.1 / 90
p0 1803 ± 1.361
1950
1900
1850
1800
1750
1700

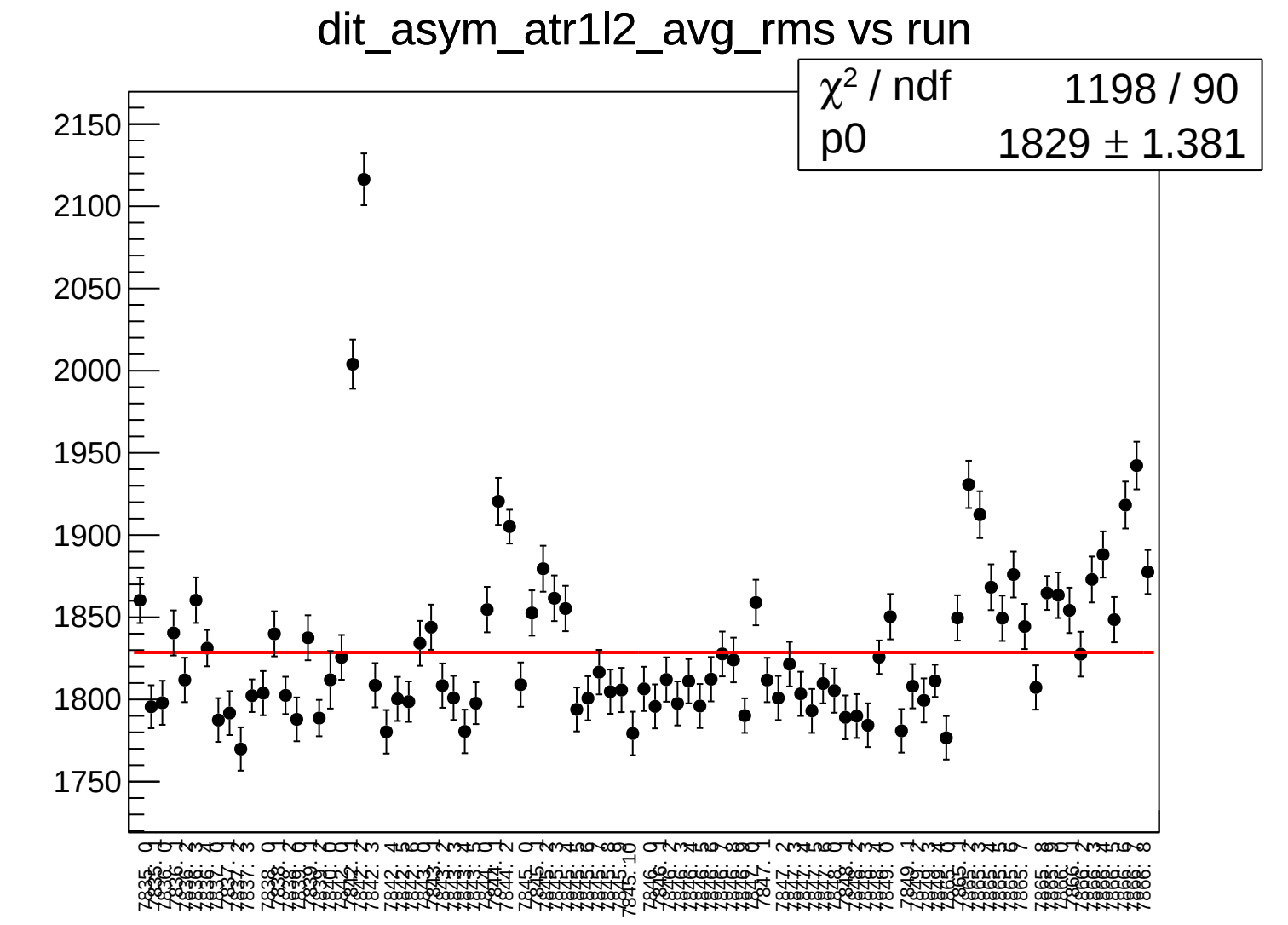

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.2 / 90
p0 −1.449e+04 ± 6915
pull
Entries 91
Mean −194.4
Std Dev 0

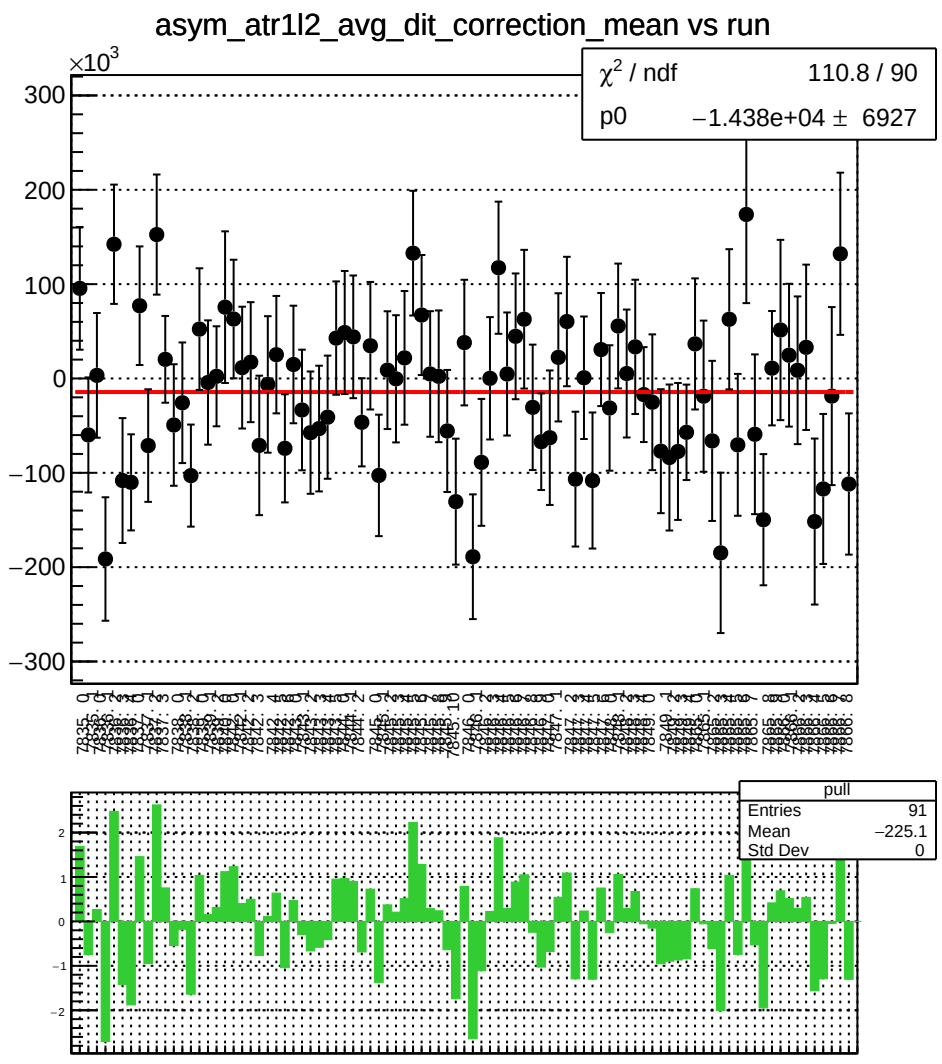

pull1D
Entries 91
Mean 0.01158
Std Dev 1.1

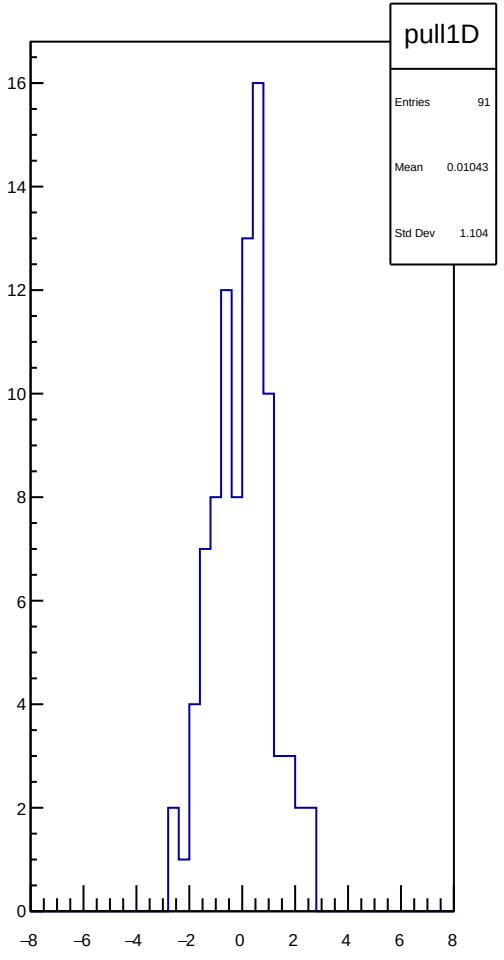

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.189e+04 / 90
p0 6437 ± 4.89
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

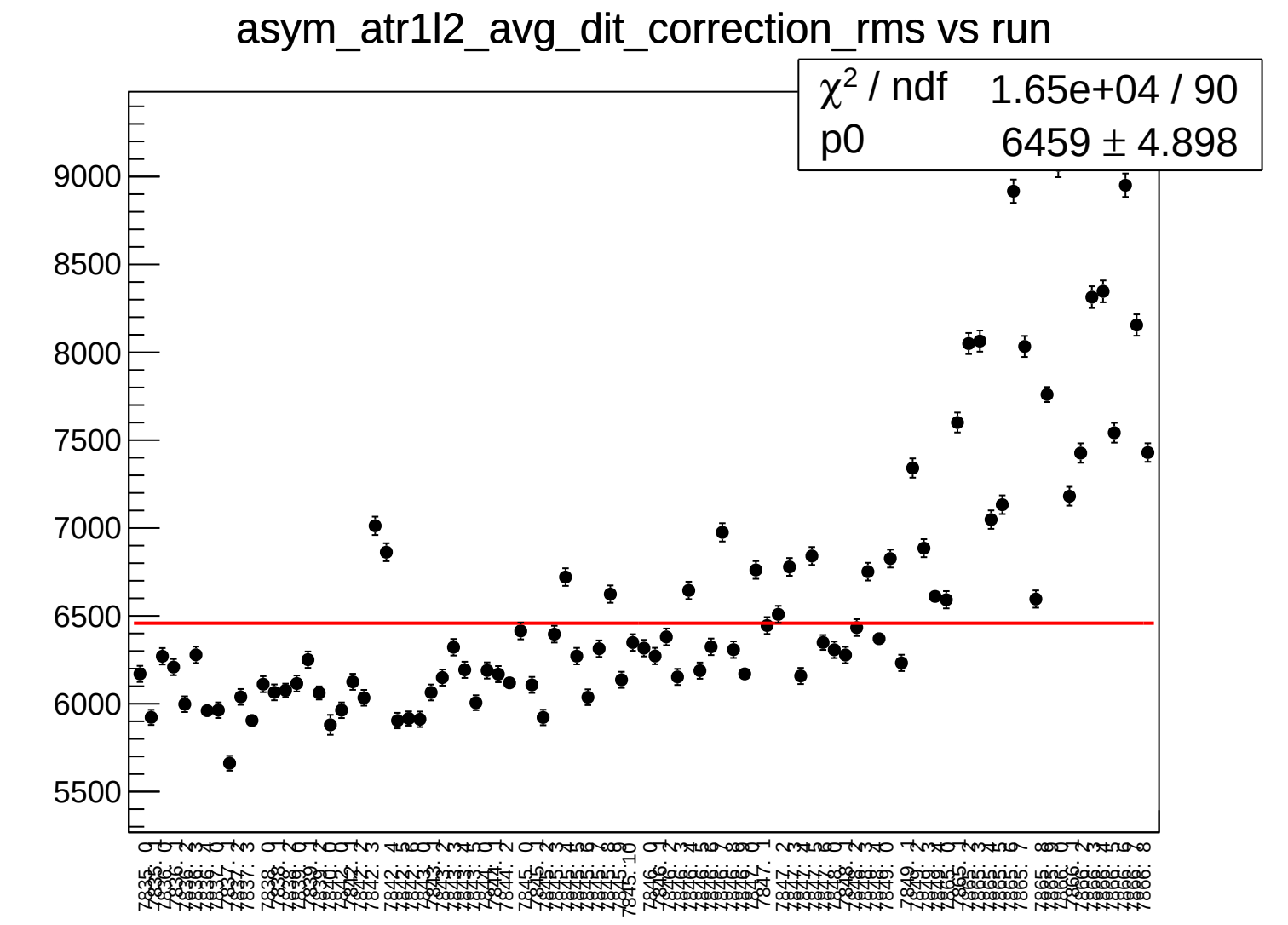

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 109.8 / 90
p0 3909 ± 1953
×10³
pull
Entries 91
Mean 3589
Std Dev 0

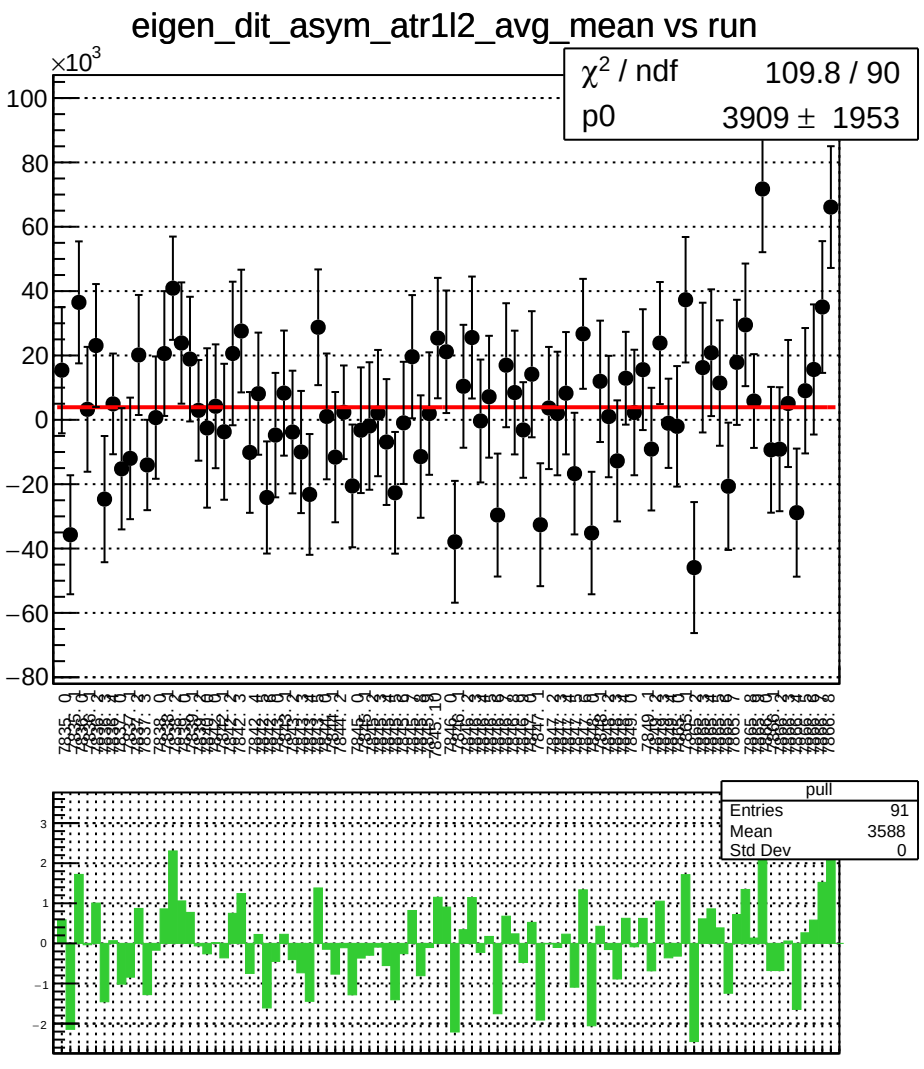

pull1D
Entries 91
Mean 0.0009755
Std Dev 1.099

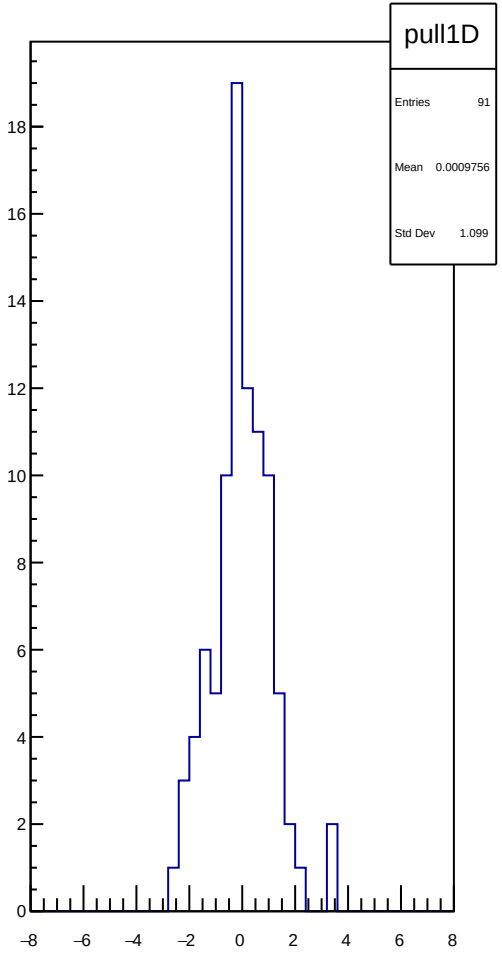

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1198 / 90
p0 1829 ± 1.381
2150
2100
2050
2000
1950
1900
1850
1800
1750

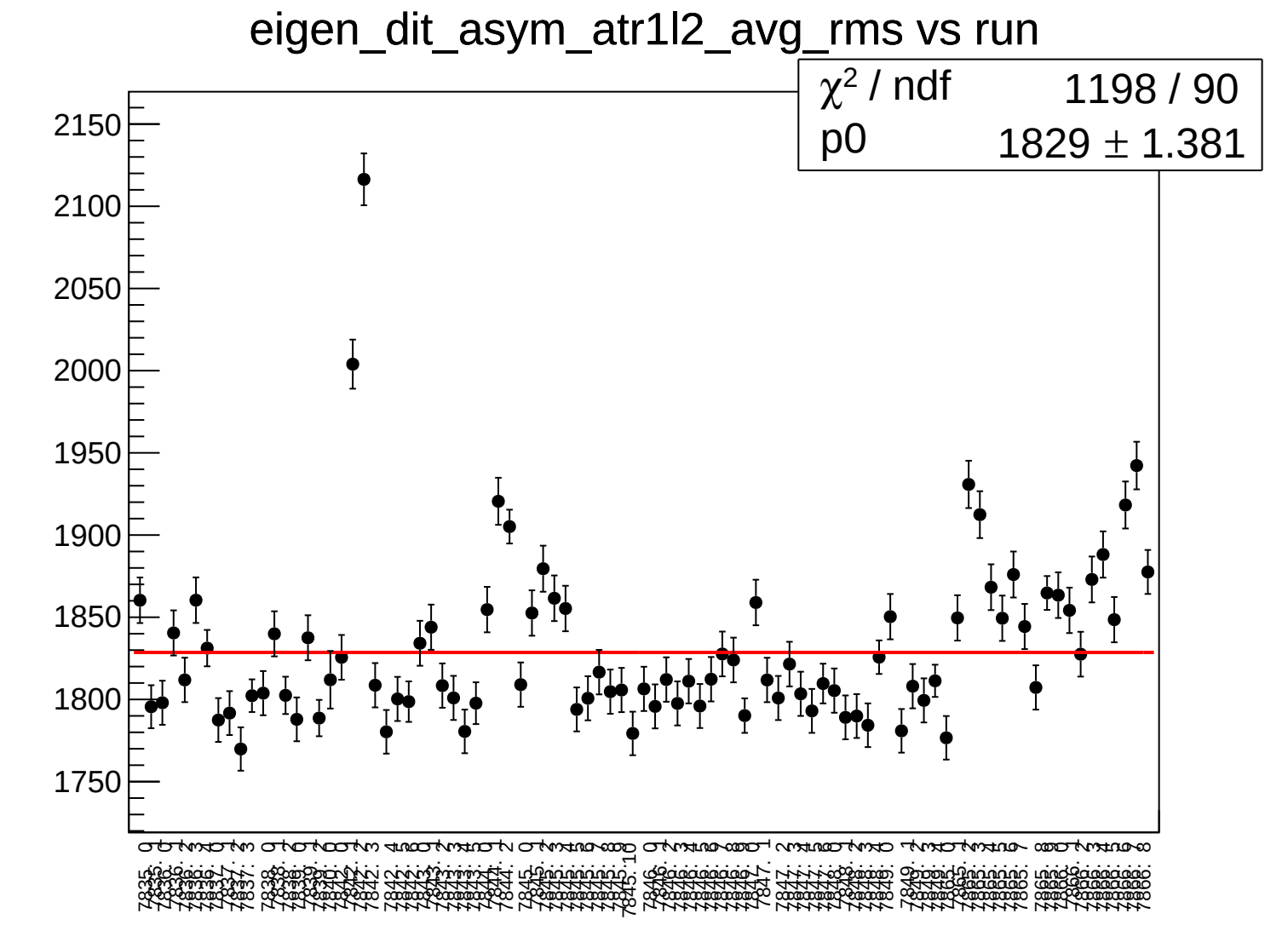

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 110.8 / 90
p0 −1.438e+04 ± 6927
pull
Entries 91
Mean −225.1
Std Dev 0

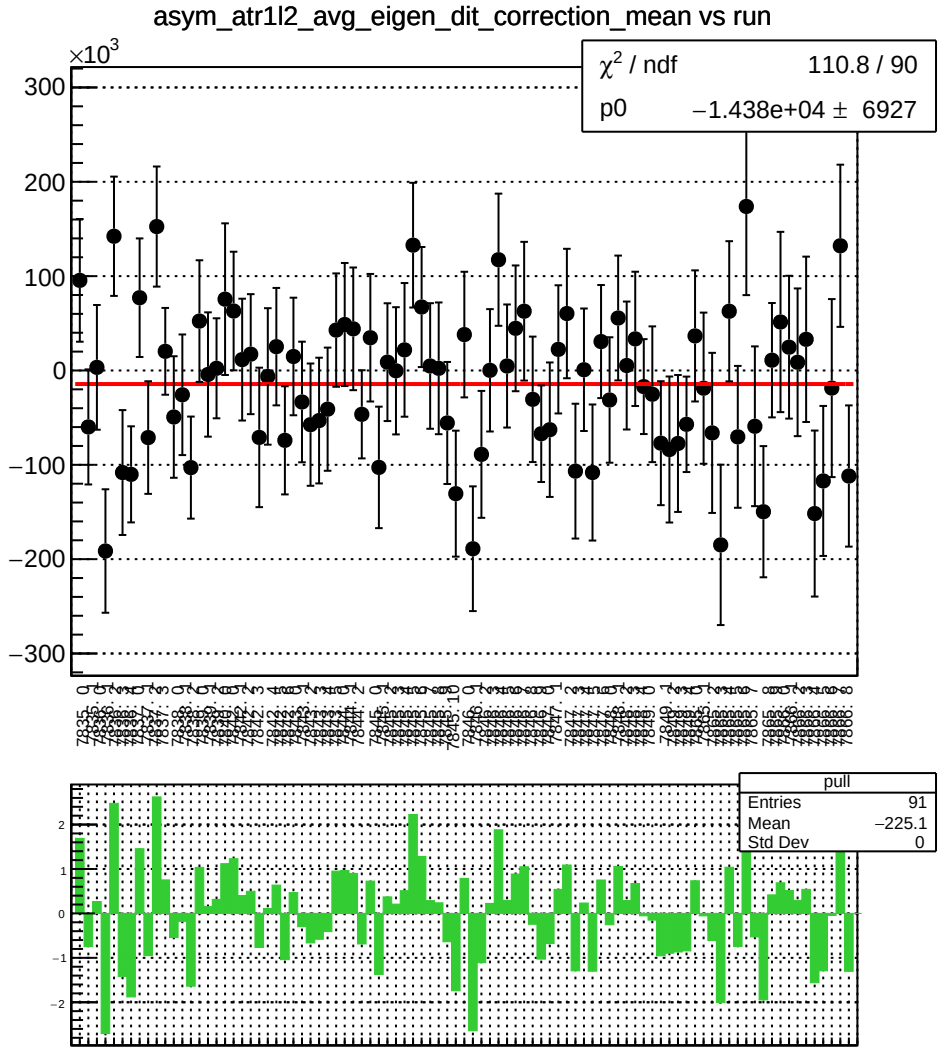

pull1D
Entries 91
Mean 0.01043
Std Dev 1.104

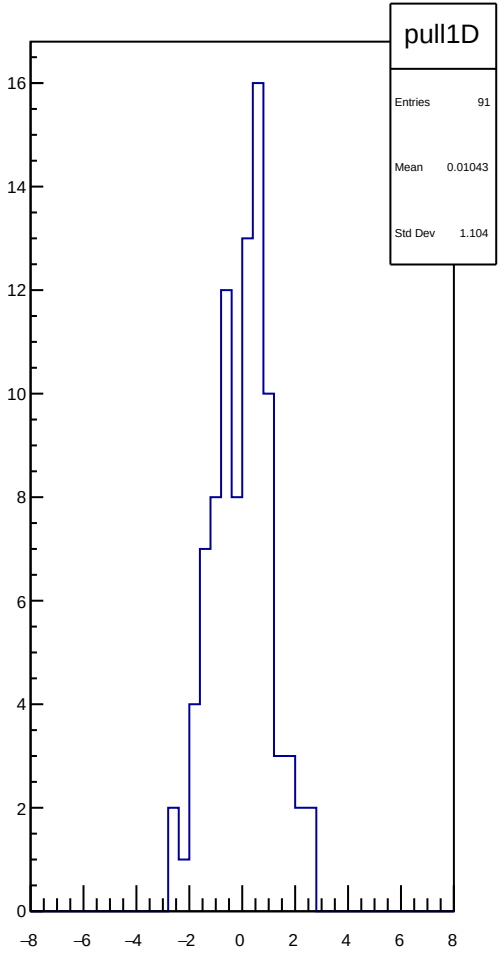

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.65e+04 / 90
p0 6459 ± 4.898
9000
8500
8000
7500
7000
6500
6000
5500

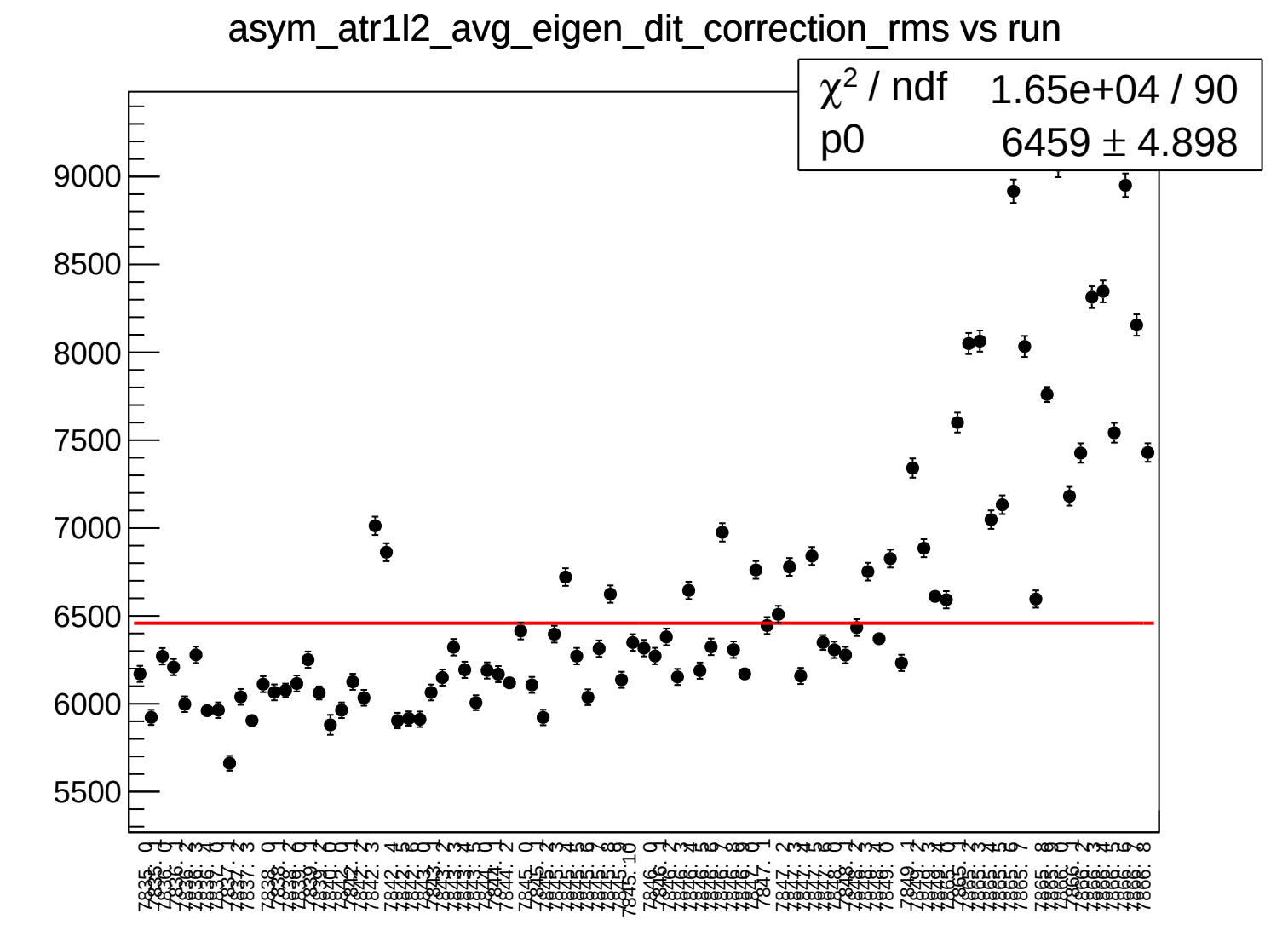

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 109.8 / 90
p0 3909 ± 1953
×10³
pull
Entries 91
Mean 3588
Std Dev 0

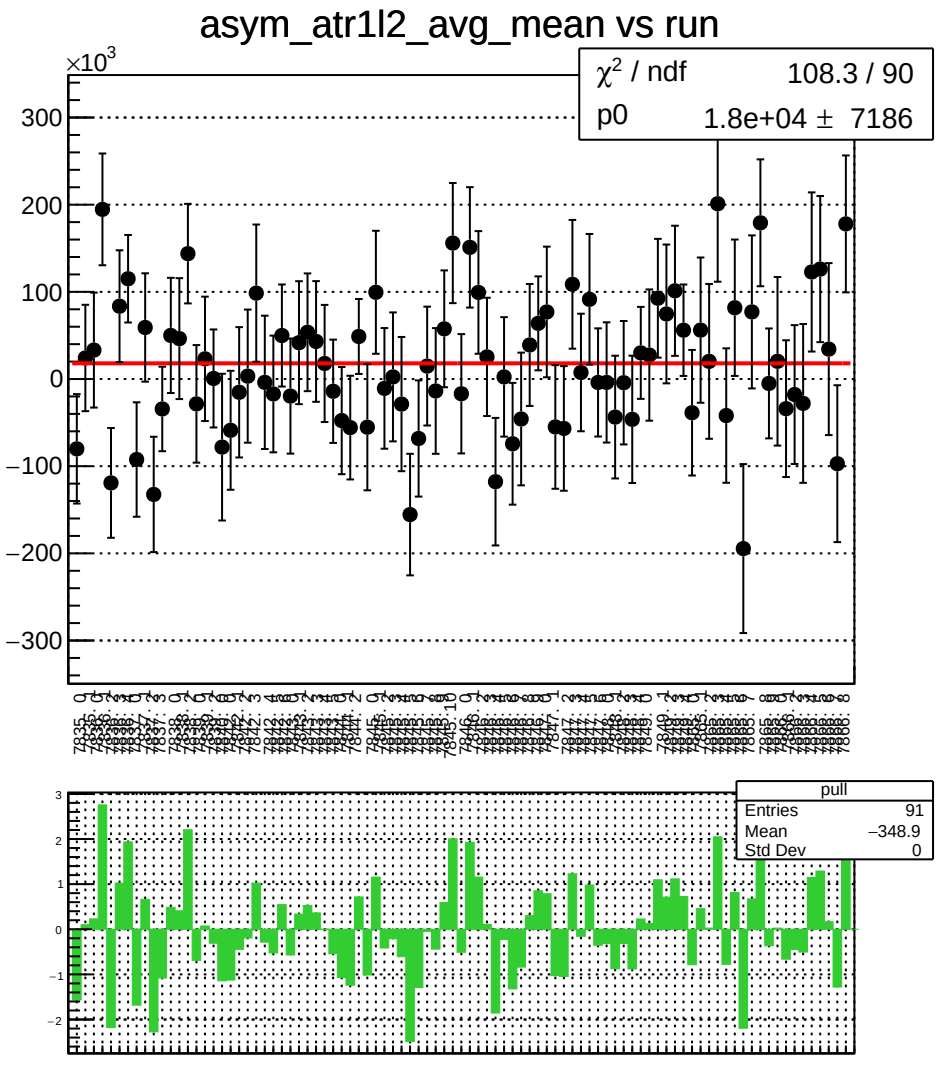

pull1D
Entries 91
Mean 0.0009756
Std Dev 1.099

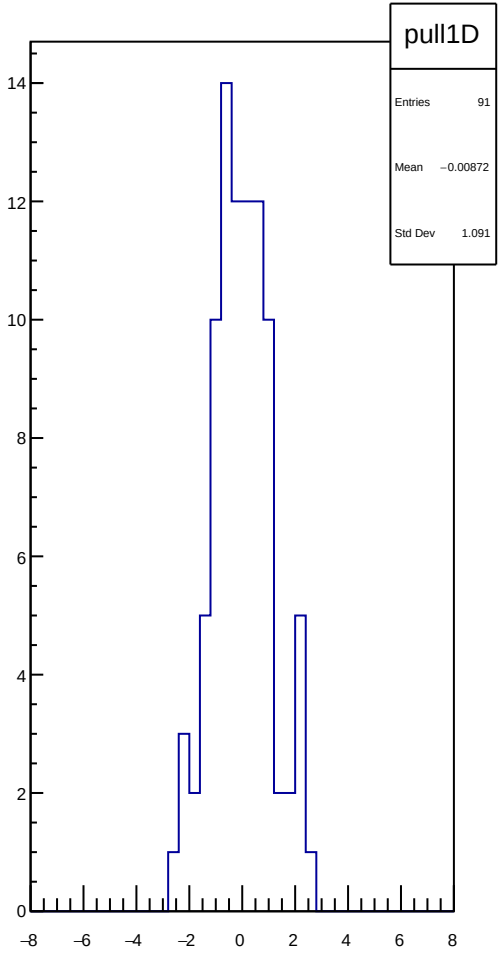

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1198 / 90
p0 1829 ± 1.381
2150
2100
2050
2000
1950
1900
1850
1800
1750

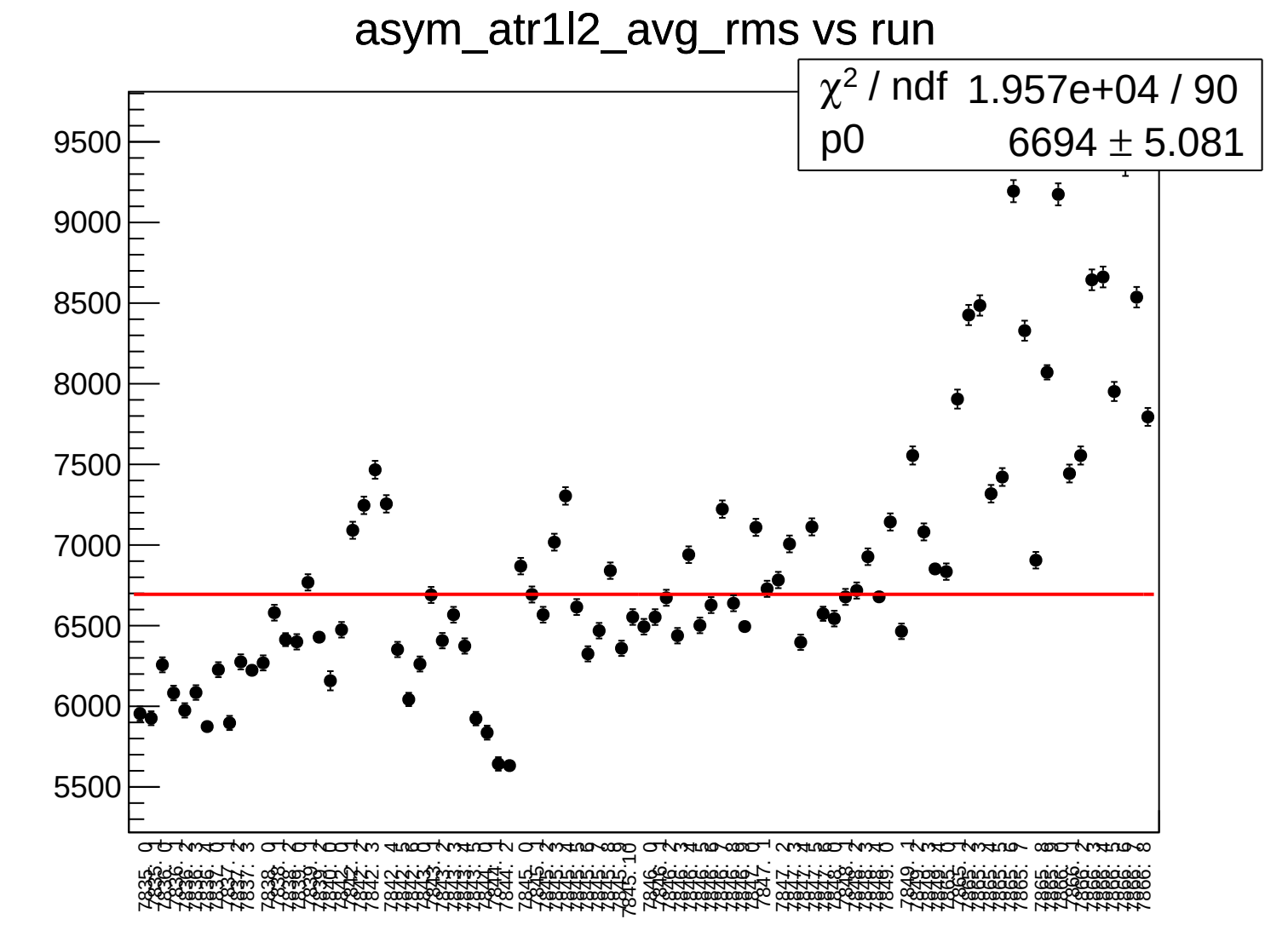

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 110.8 / 90
p0 −1.438e+04 ± 6927
pull
Entries 91
Mean −225.1
Std Dev 0

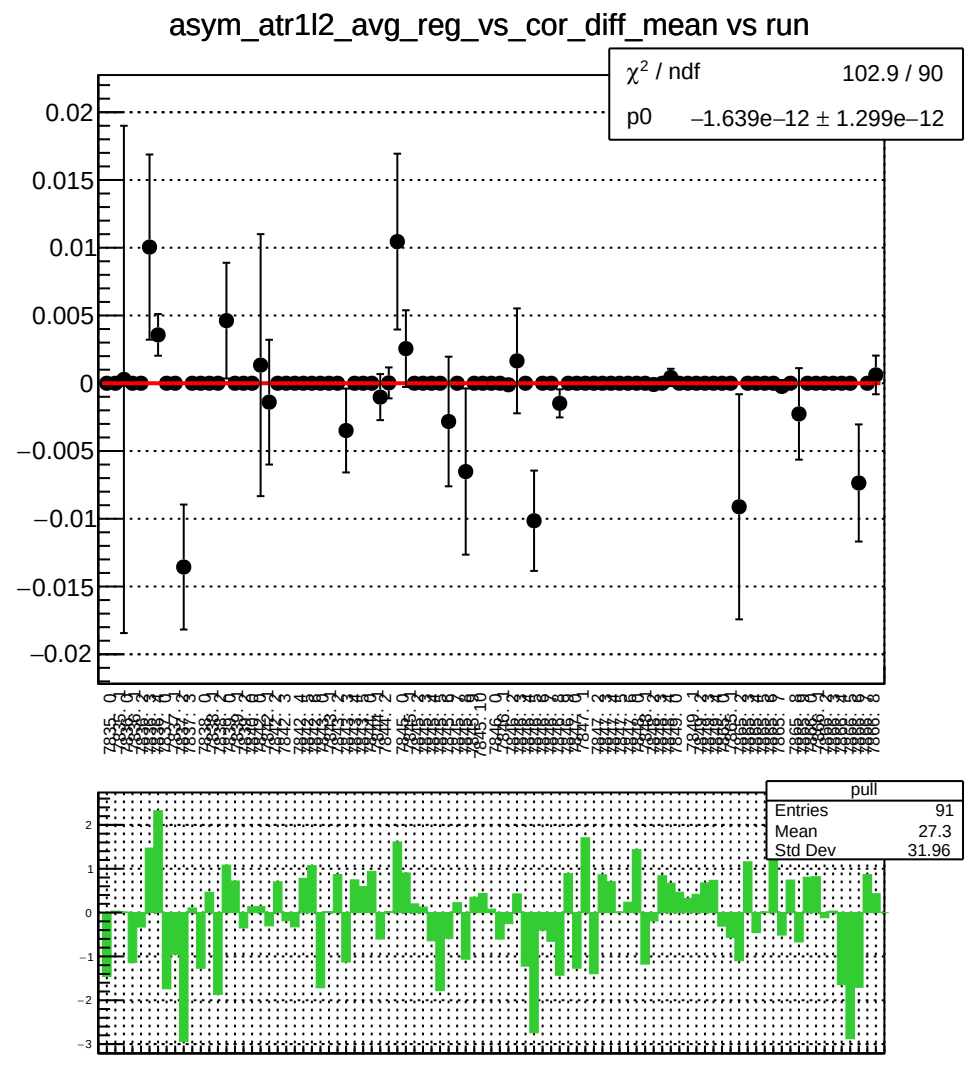

pull1D
Entries 91
Mean 0.01043
Std Dev 1.104

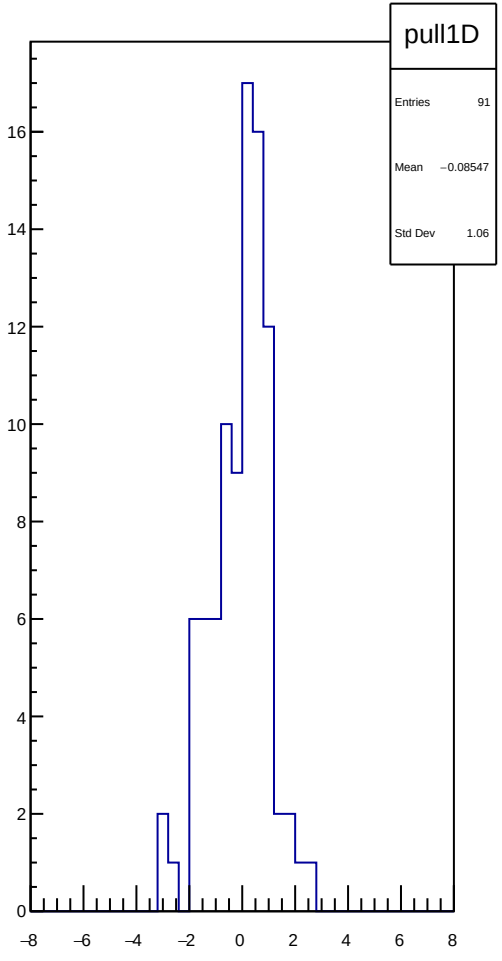

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.65e+04 / 90
p0 6459 ± 4.898
9000
8500
8000
7500
7000
6500
6000
5500

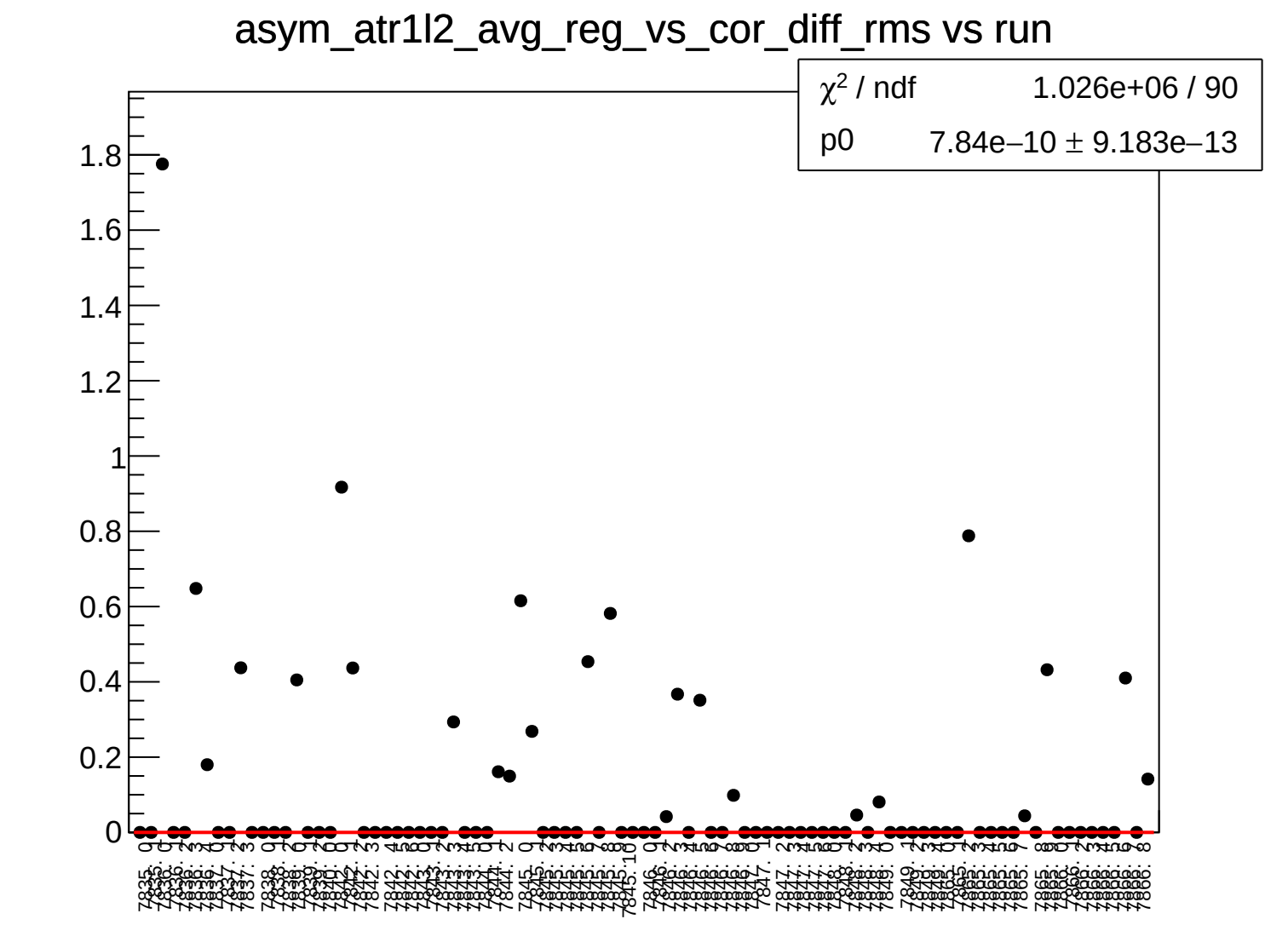

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 108.3 / 90
p0 1.8e+04 ± 7186
pull
Entries 91
Mean −348.9
Std Dev 0

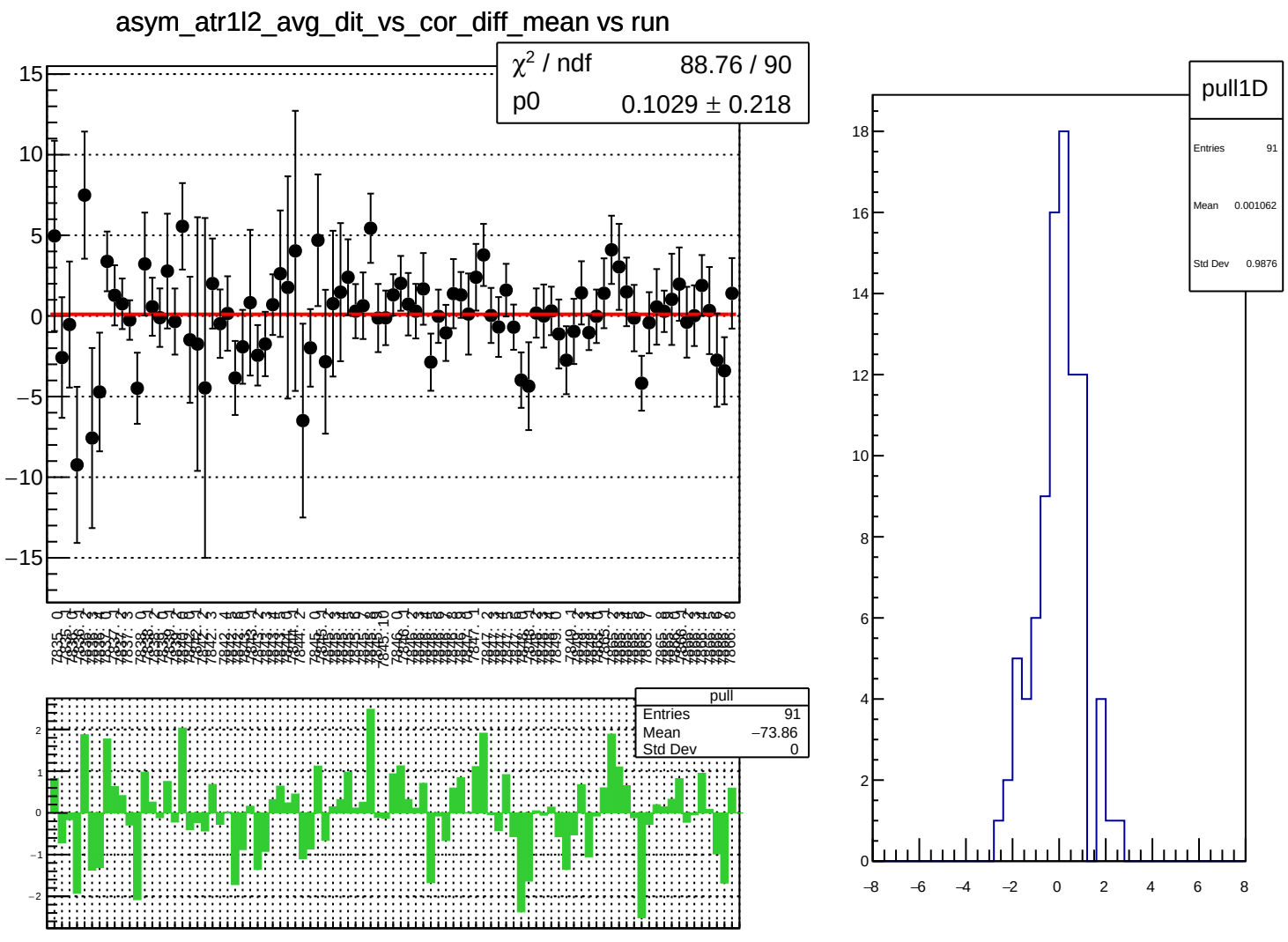

pull1D
Entries 91
Mean −0.00872
Std Dev 1.091

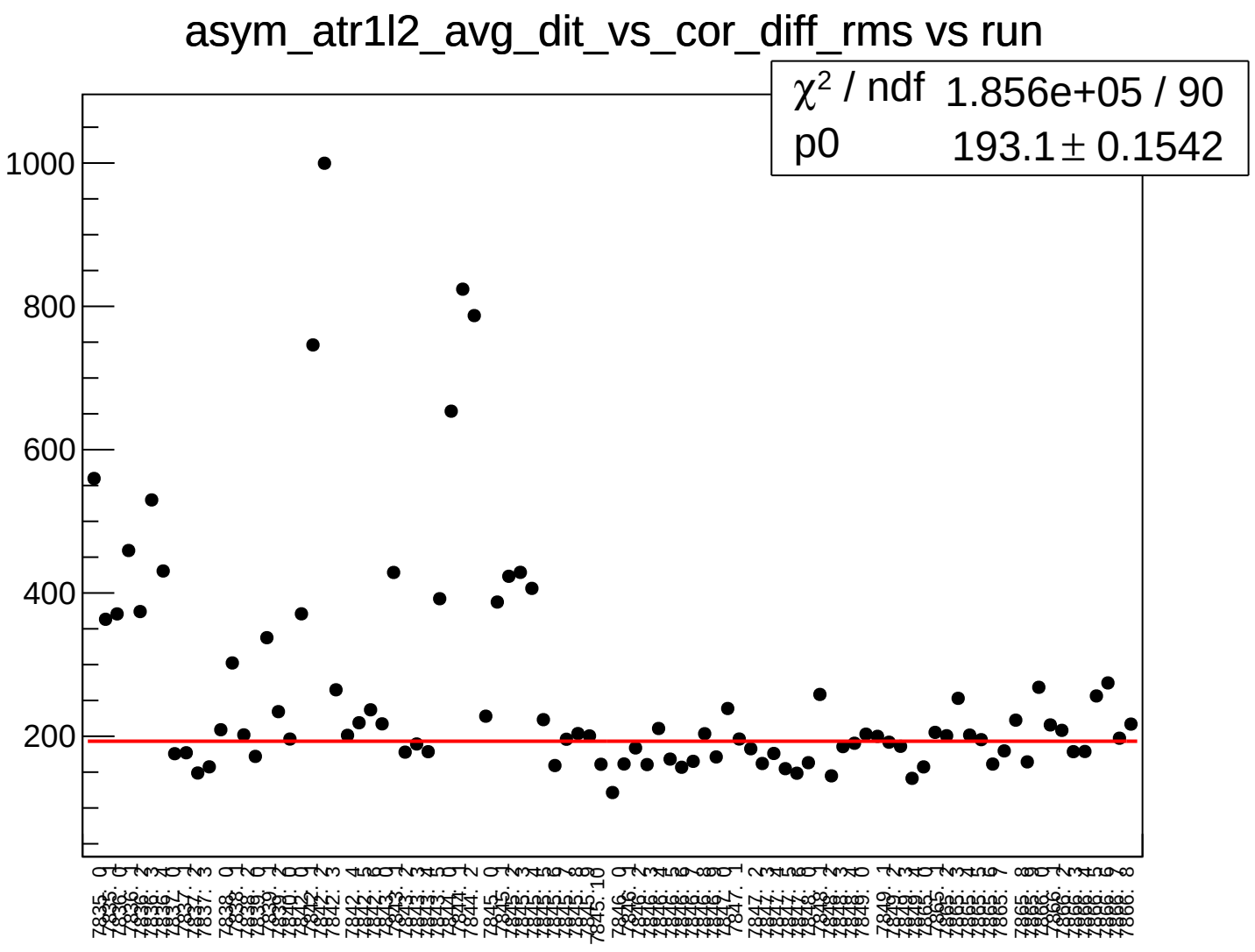

asym_atr1l2_avg_rms vs run
χ^2 / ndf 1.957e+04 / 90
p0 6694 ± 5.081
9500
9000
8500
8000
7500
7000
6500
6000
5500

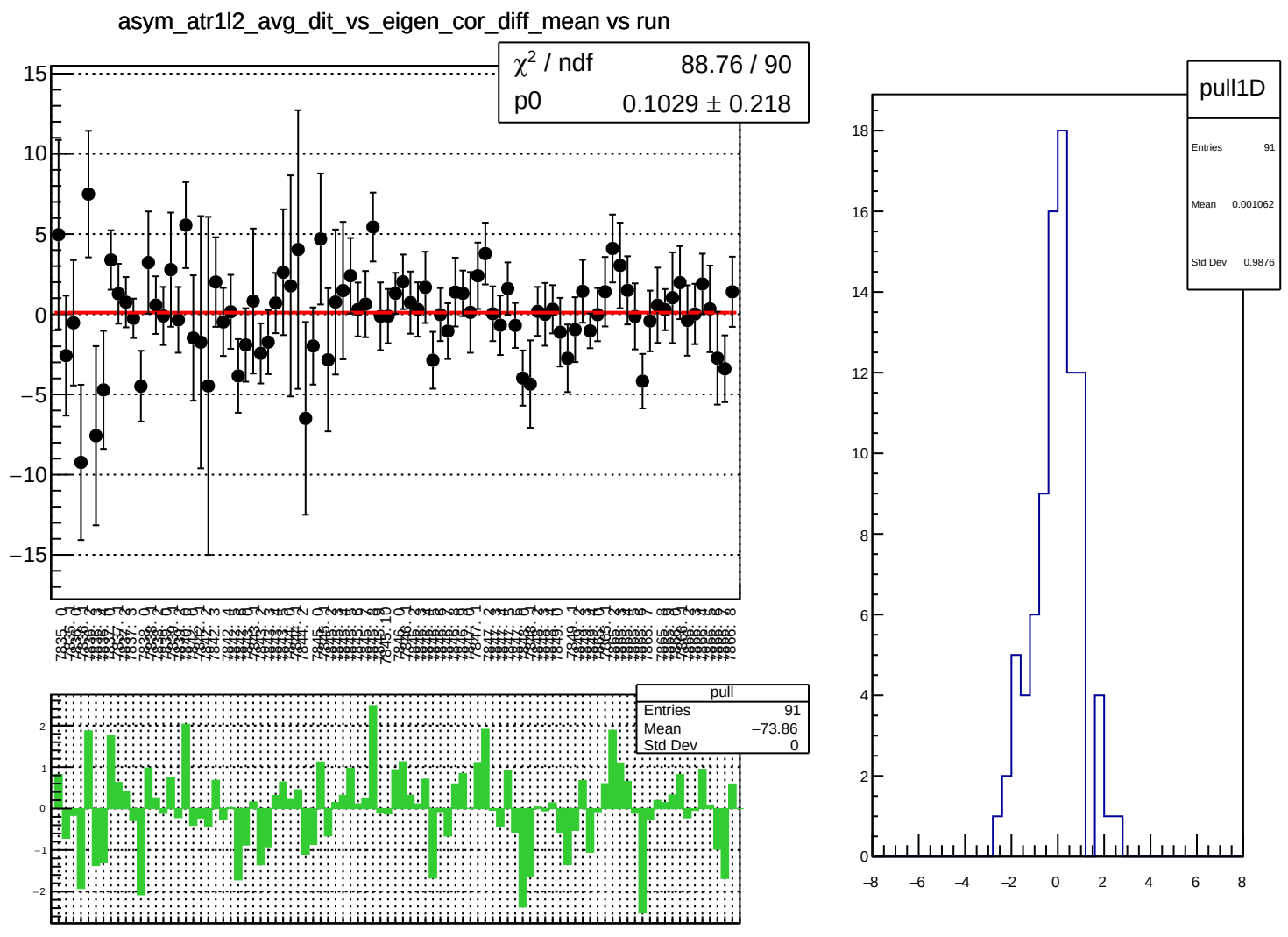

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 90
p0 −1.639e−12 ± 1.299e−12
pull
Entries 91
Mean 27.3
Std Dev 31.96

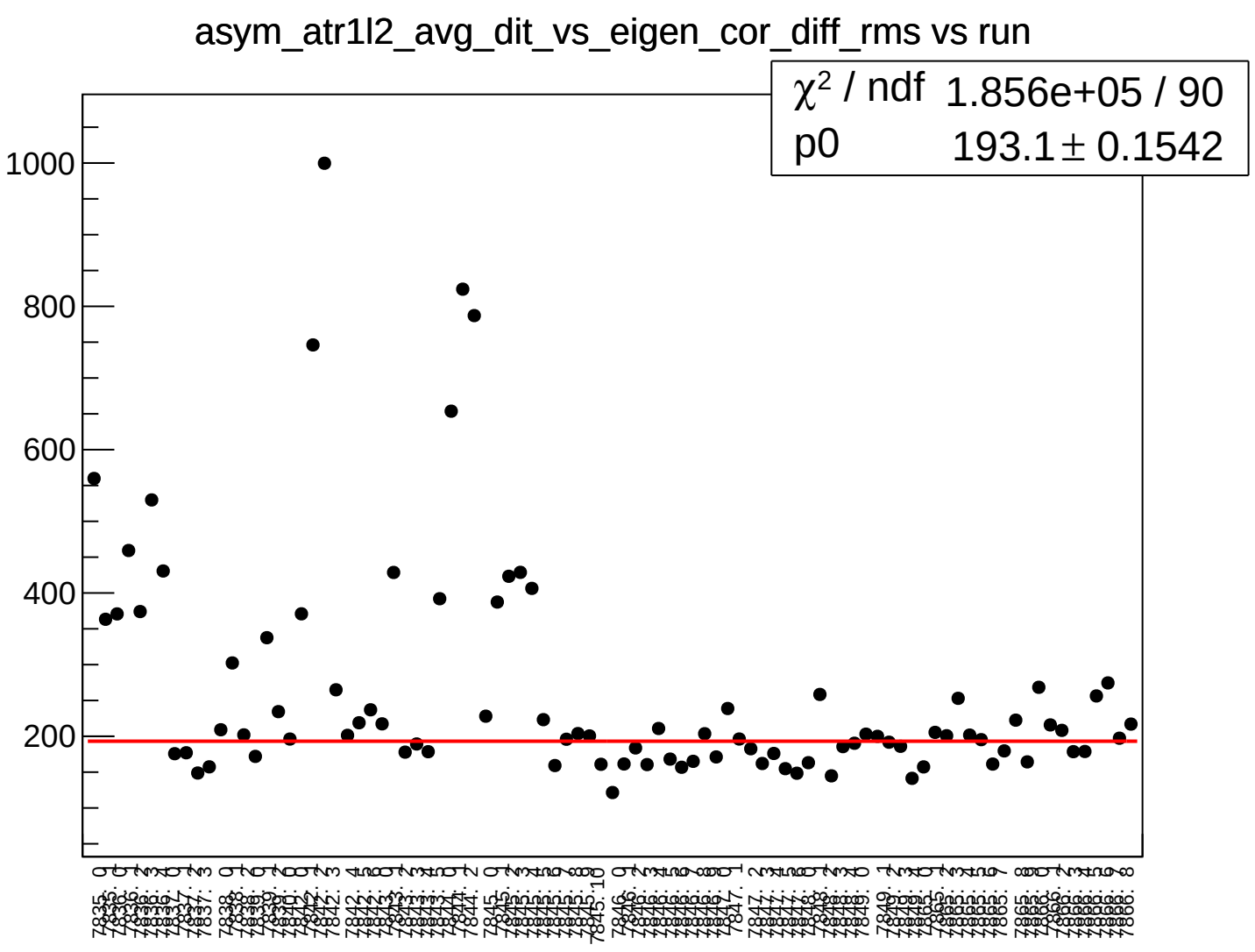

pull1D
Entries 91
Mean −0.08547
Std Dev 1.06

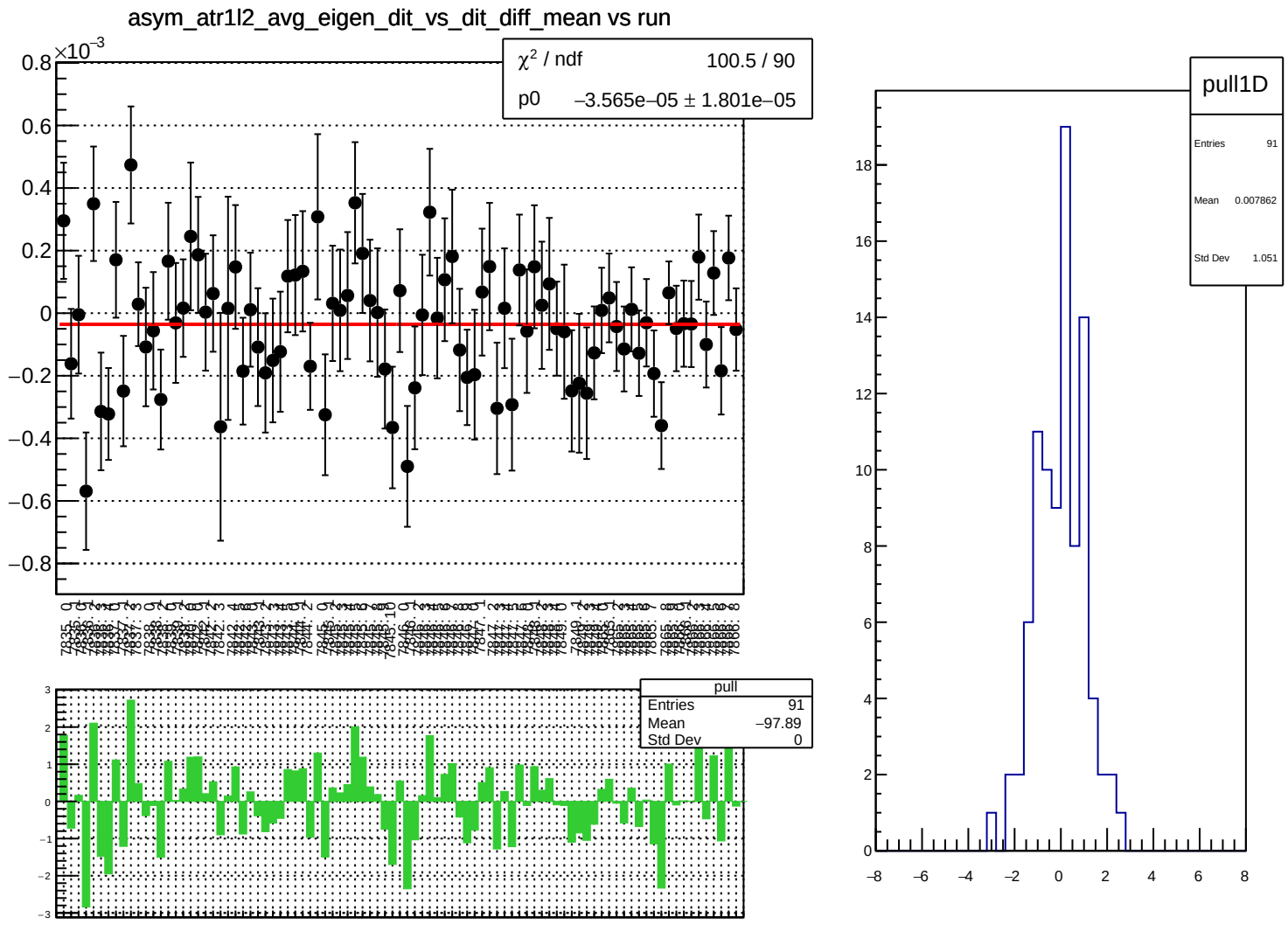

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 90
p0 7.84e−10 ± 9.183e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

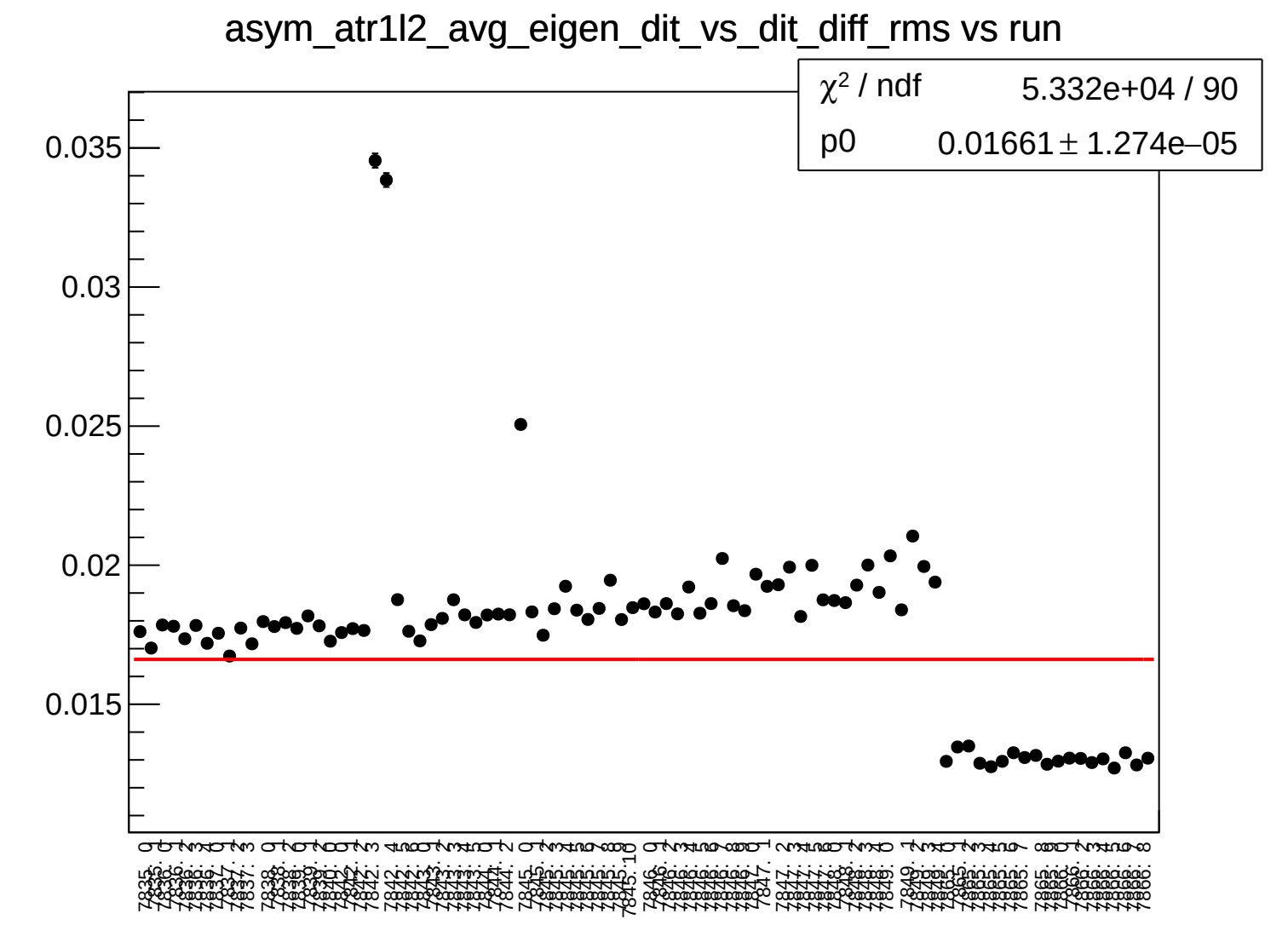

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.76 / 90
p0 0.1029 ± 0.218
pull
Entries 91
Mean −73.86
Std Dev 0
pull1D
Entries 91
Mean 0.001062
Std Dev 0.9876

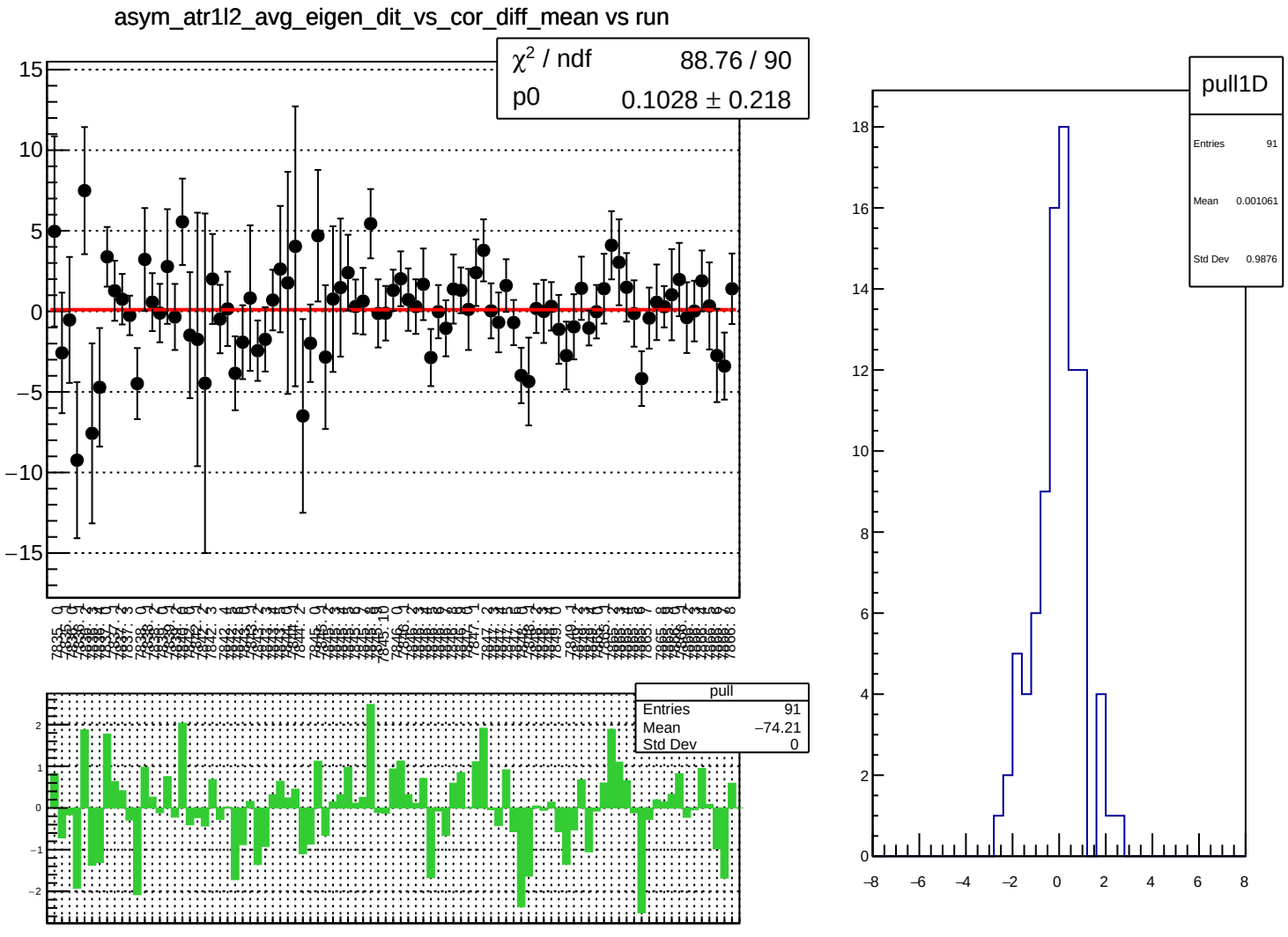

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 90
p0 193.1 ± 0.1542
1000
800
600
400
200

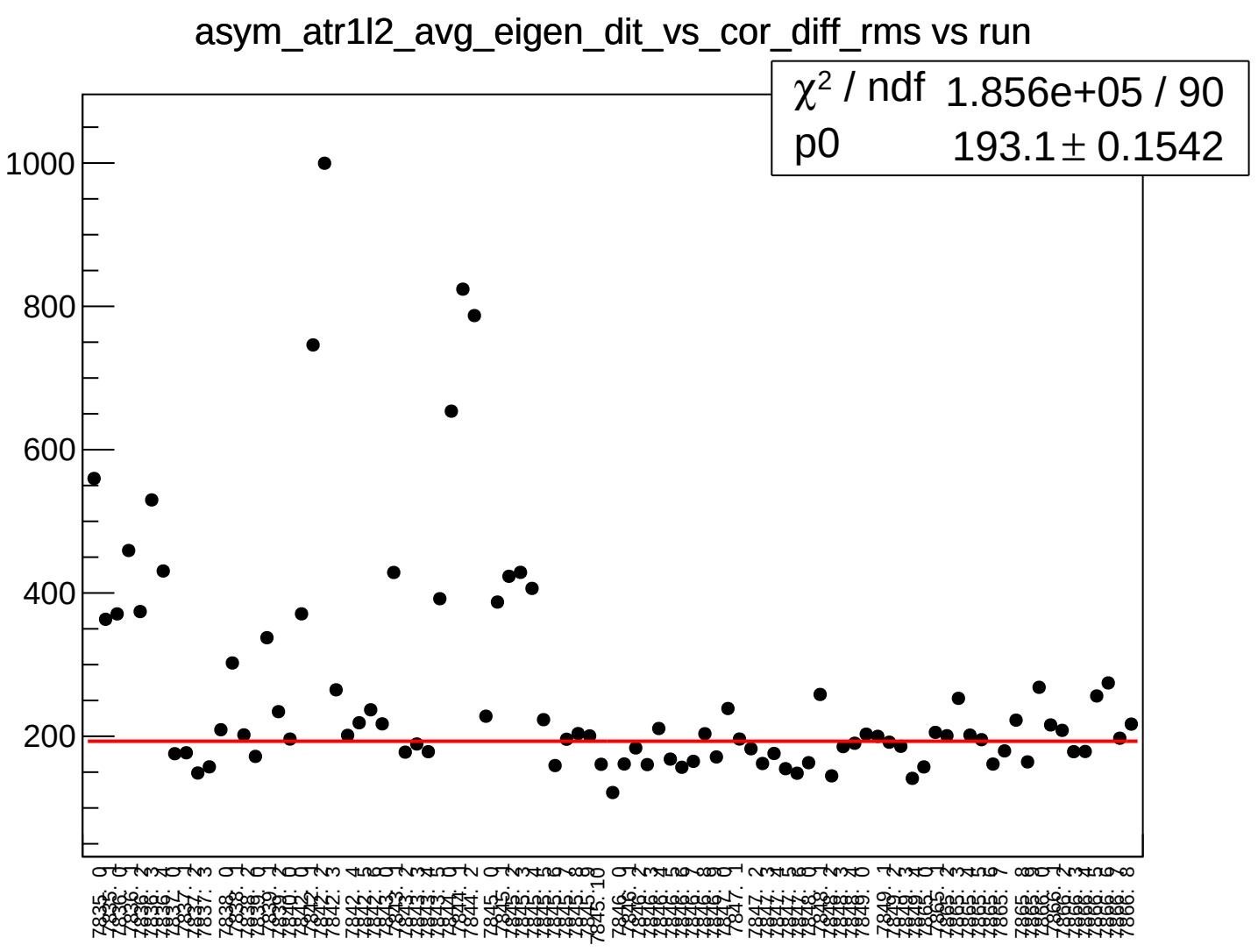

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.76 / 90
p0 0.1029 ± 0.218
pull
Entries 91
Mean −73.86
Std Dev 0
pull1D
Entries 91
Mean 0.001062
Std Dev 0.9876

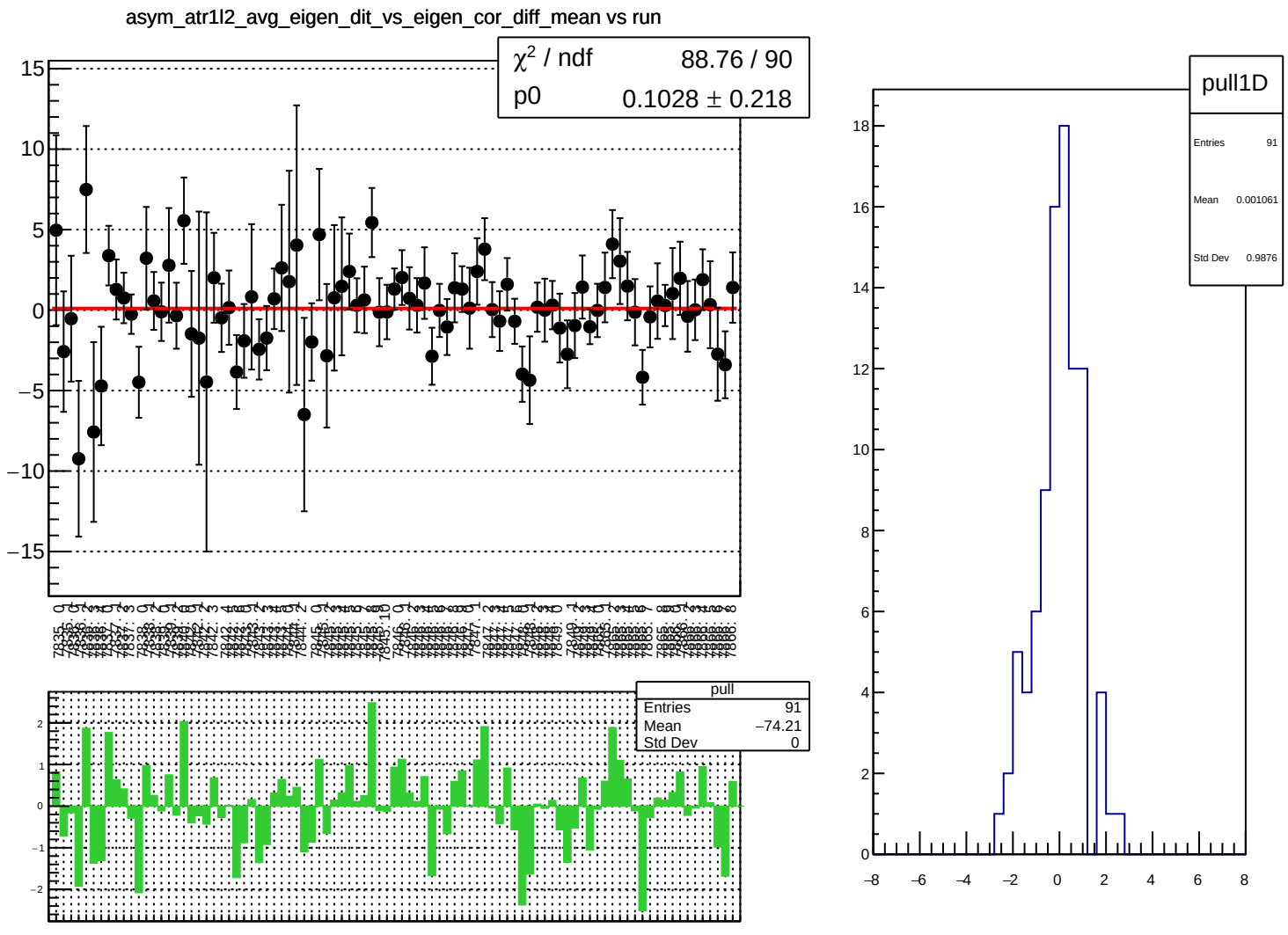

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 90
p0 193.1 ± 0.1542
1000
800
600
400
200

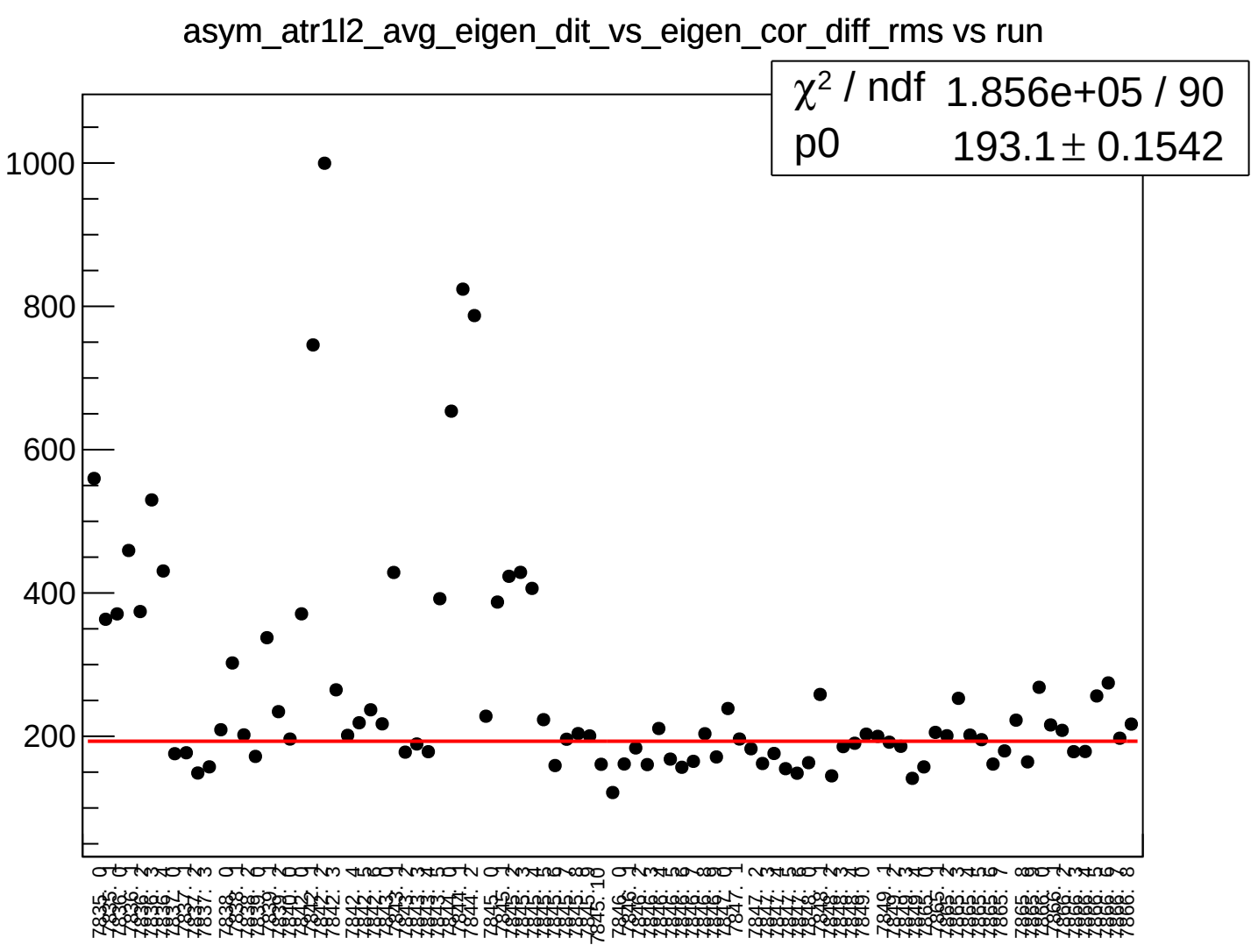

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.5 / 90
p0 −3.565e−05 ± 1.801e−05
pull
Entries 91
Mean −97.89
Std Dev 0
pull1D
Entries 91
Mean 0.007862
Std Dev 1.051

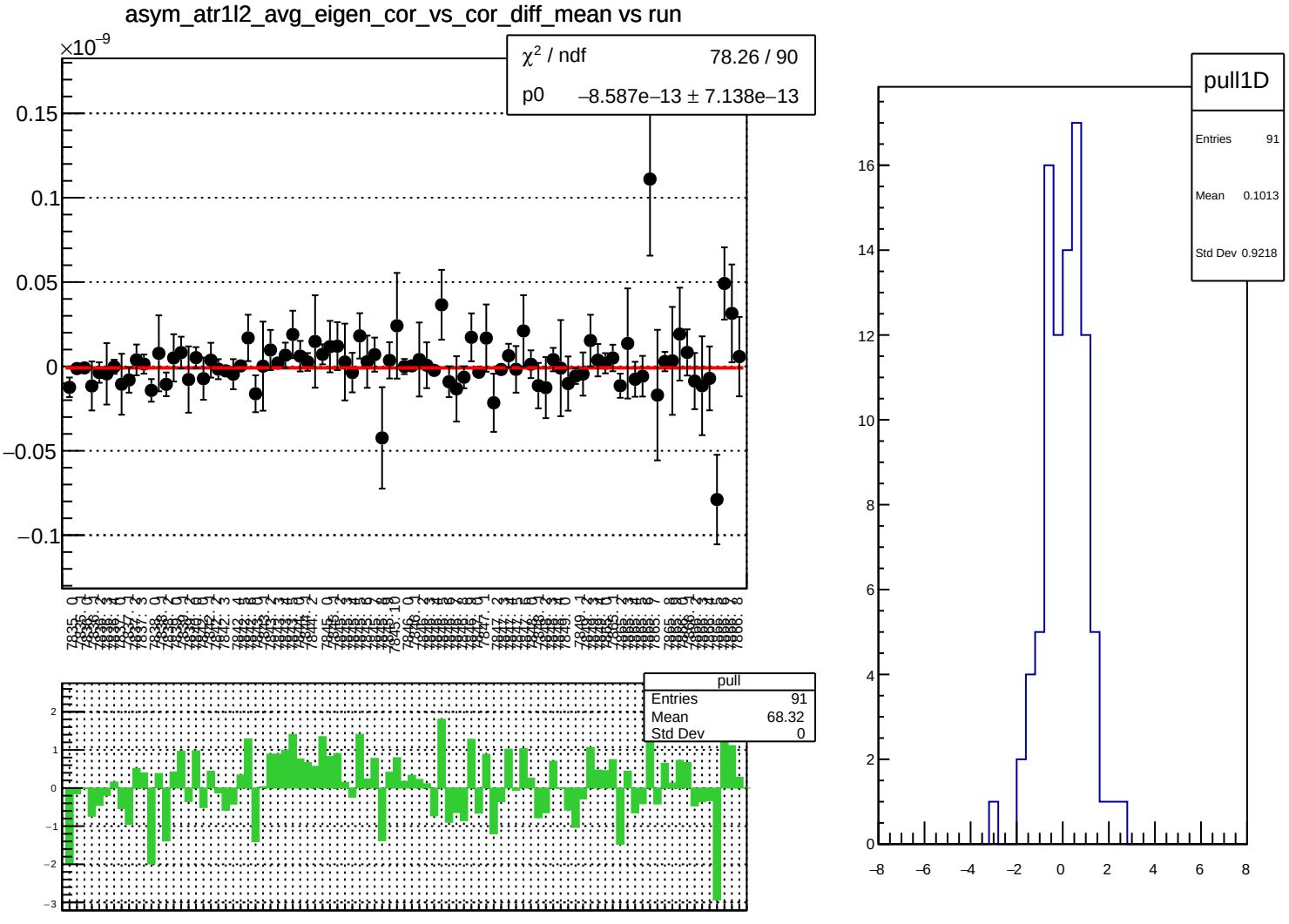

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.332e+04 / 90
p0 0.01661 ± 1.274e−05
0.035
0.03
0.025
0.02
0.015

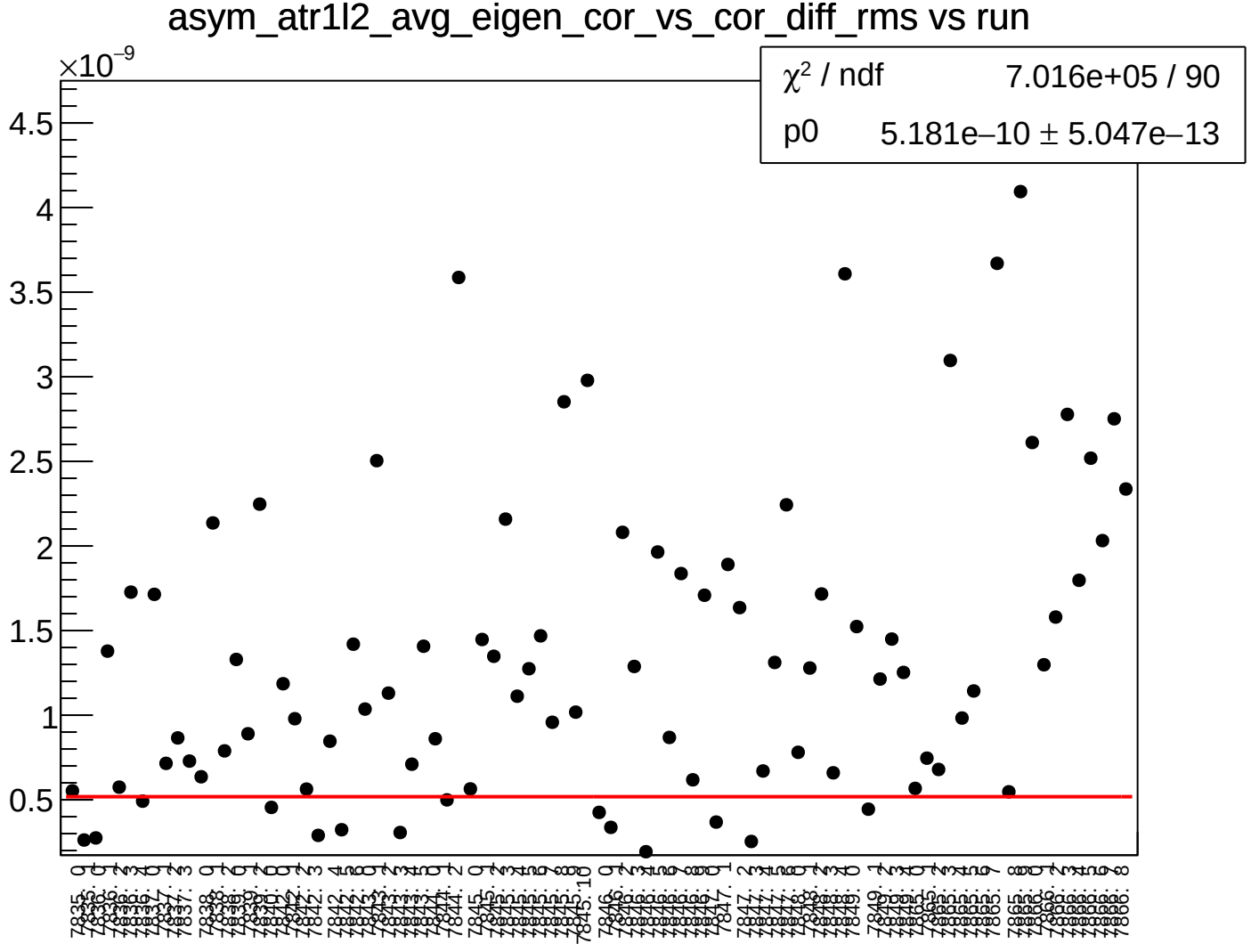

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.76 / 90
p0 0.1028 ± 0.218
pull
Entries 91
Mean −74.21
Std Dev 0
pull1D
Entries 91
Mean 0.001061
Std Dev 0.9876

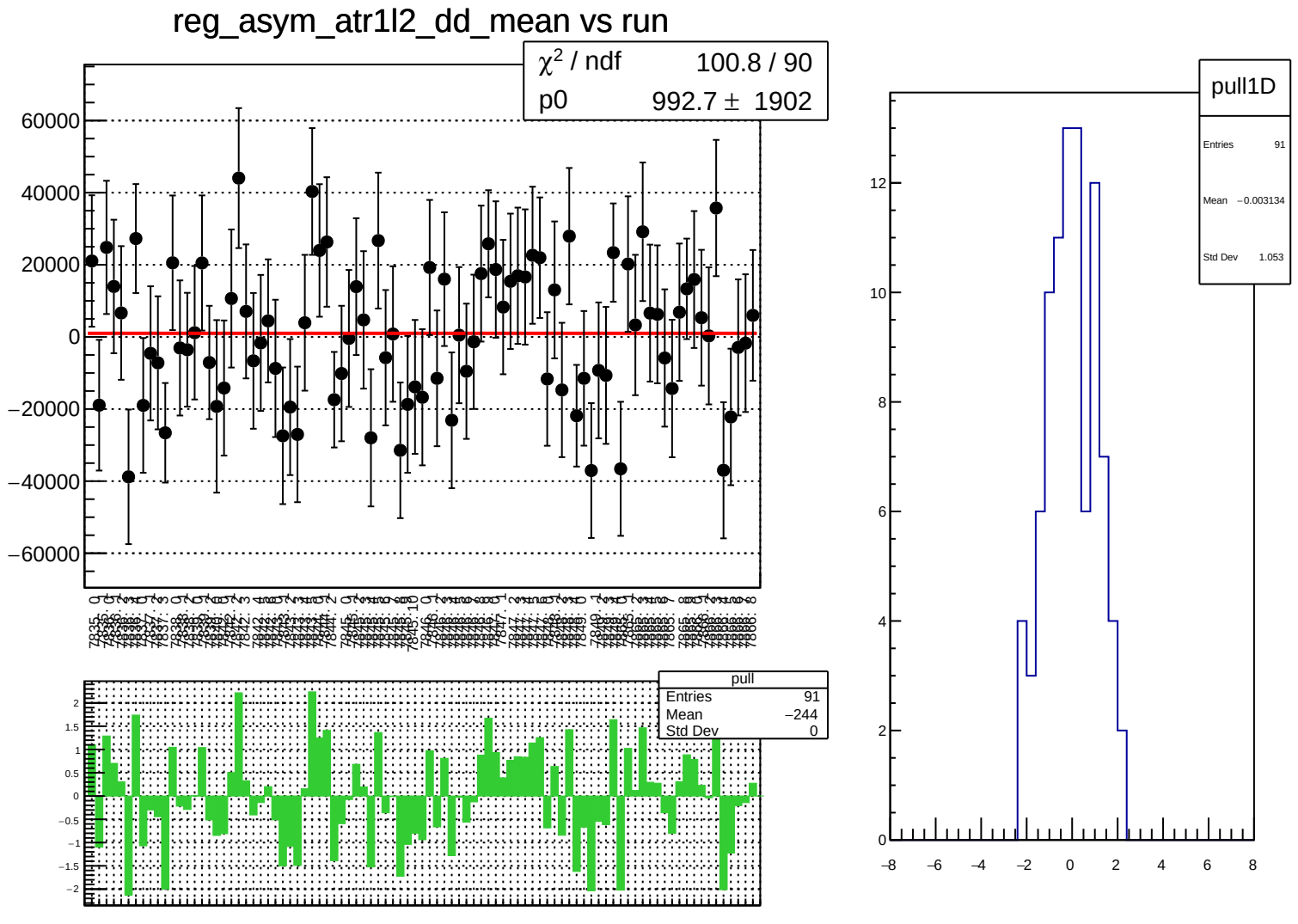

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 90
p0 193.1 ± 0.1542
1000
800
600
400
200

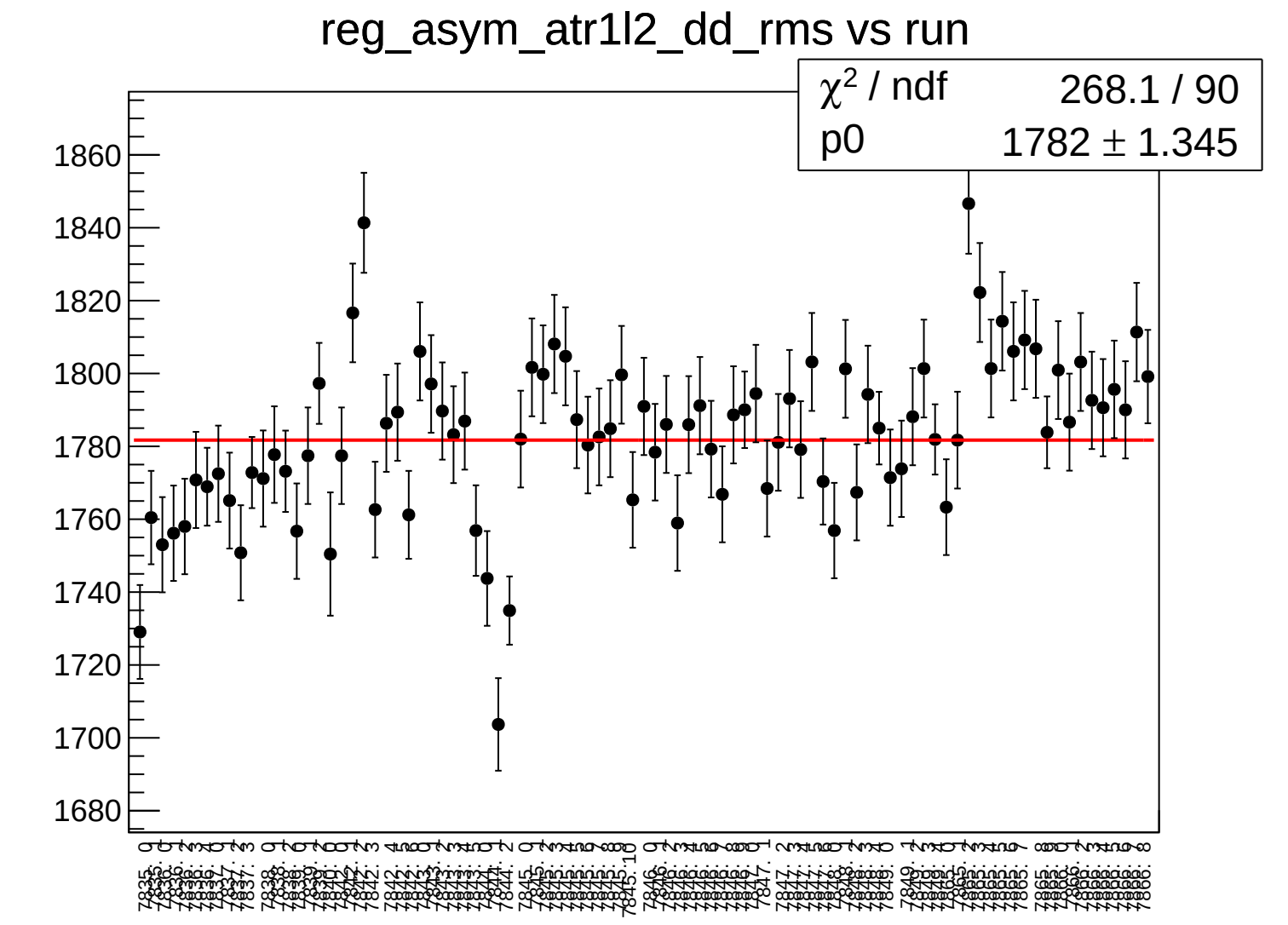

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.76 / 90
p0 0.1028 ± 0.218
pull
Entries 91
Mean −74.21
Std Dev 0
pull1D
Entries 91
Mean 0.001061
Std Dev 0.9876

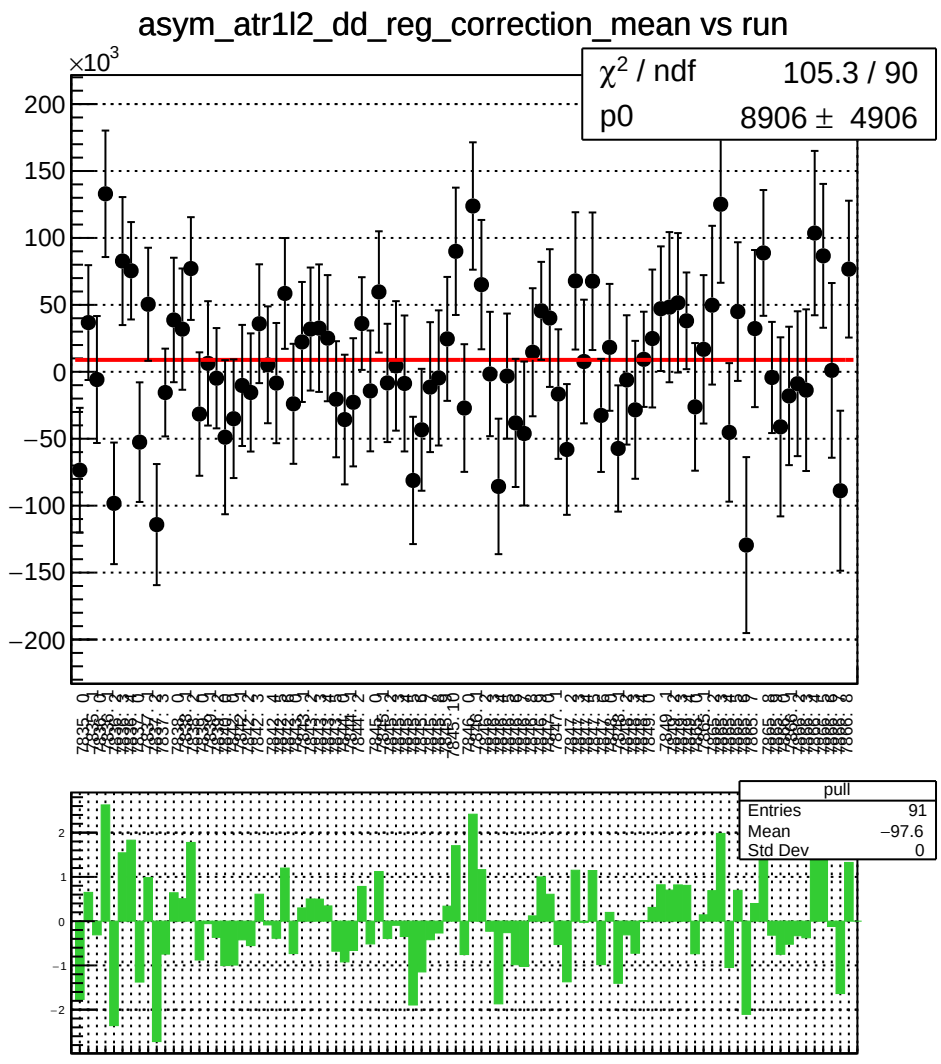

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 90
p0 193.1 ± 0.1542
1000
800
600
400
200

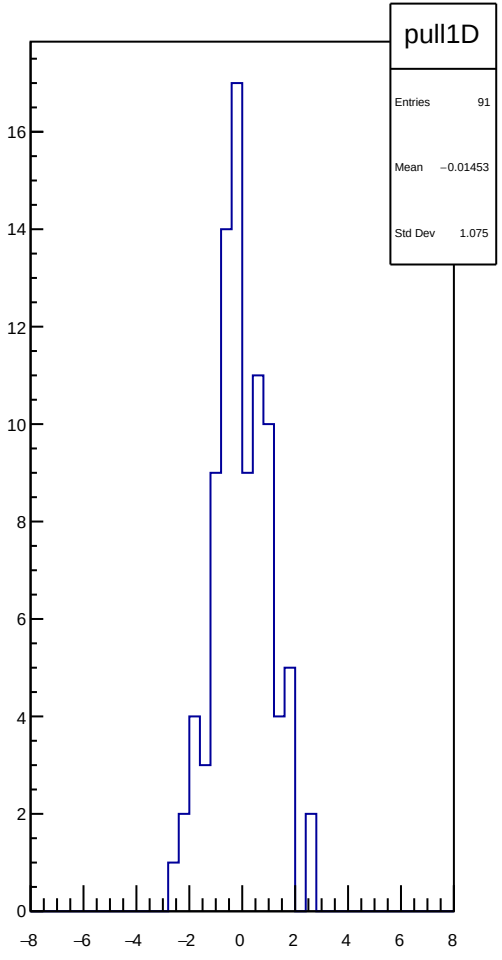

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 78.26 / 90
p0 −8.587e−13 ± 7.138e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 68.32
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.1013
Std Dev 0.9218
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

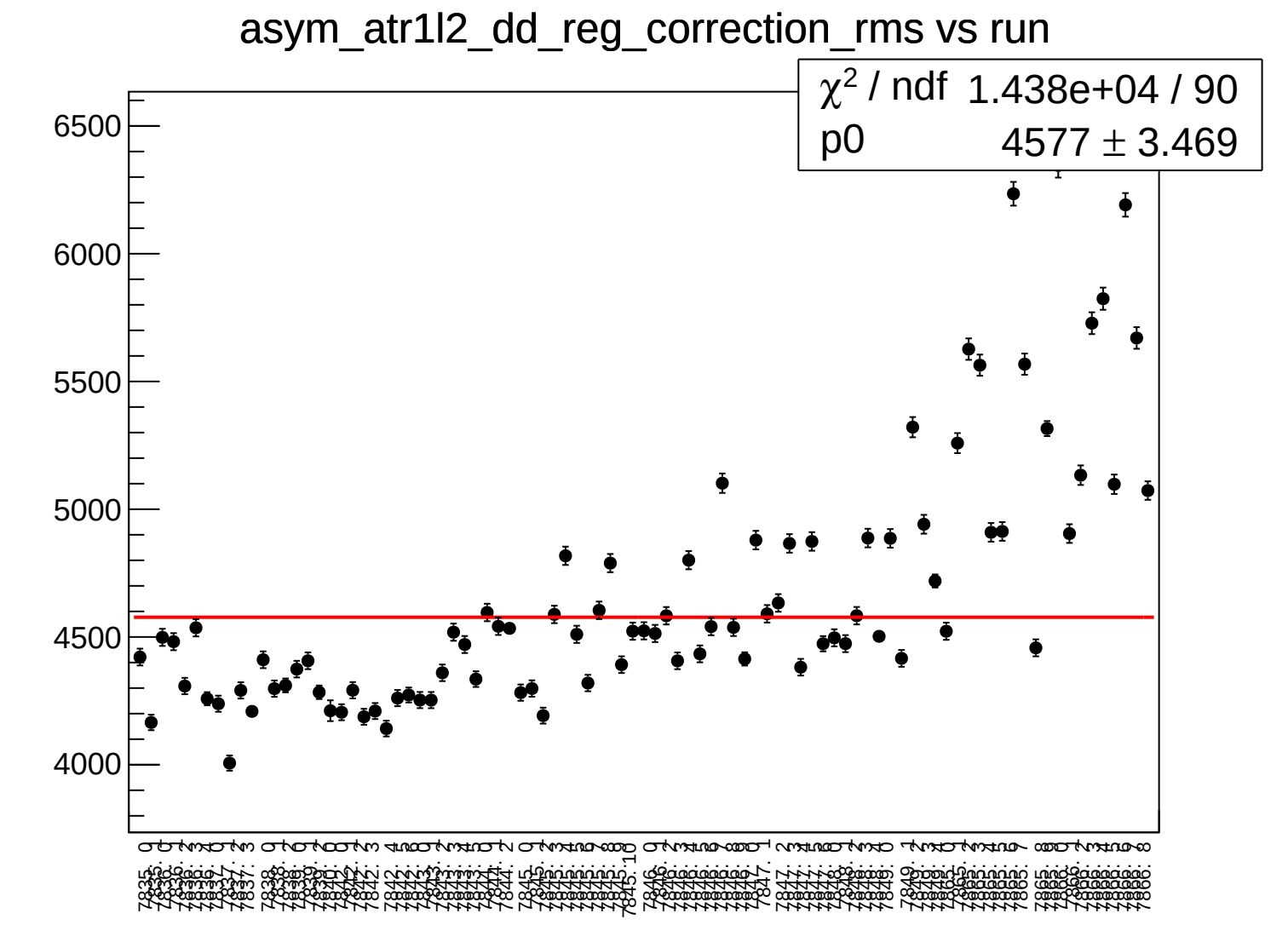

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.016e+05 / 90
p0 5.181e−10 ± 5.047e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

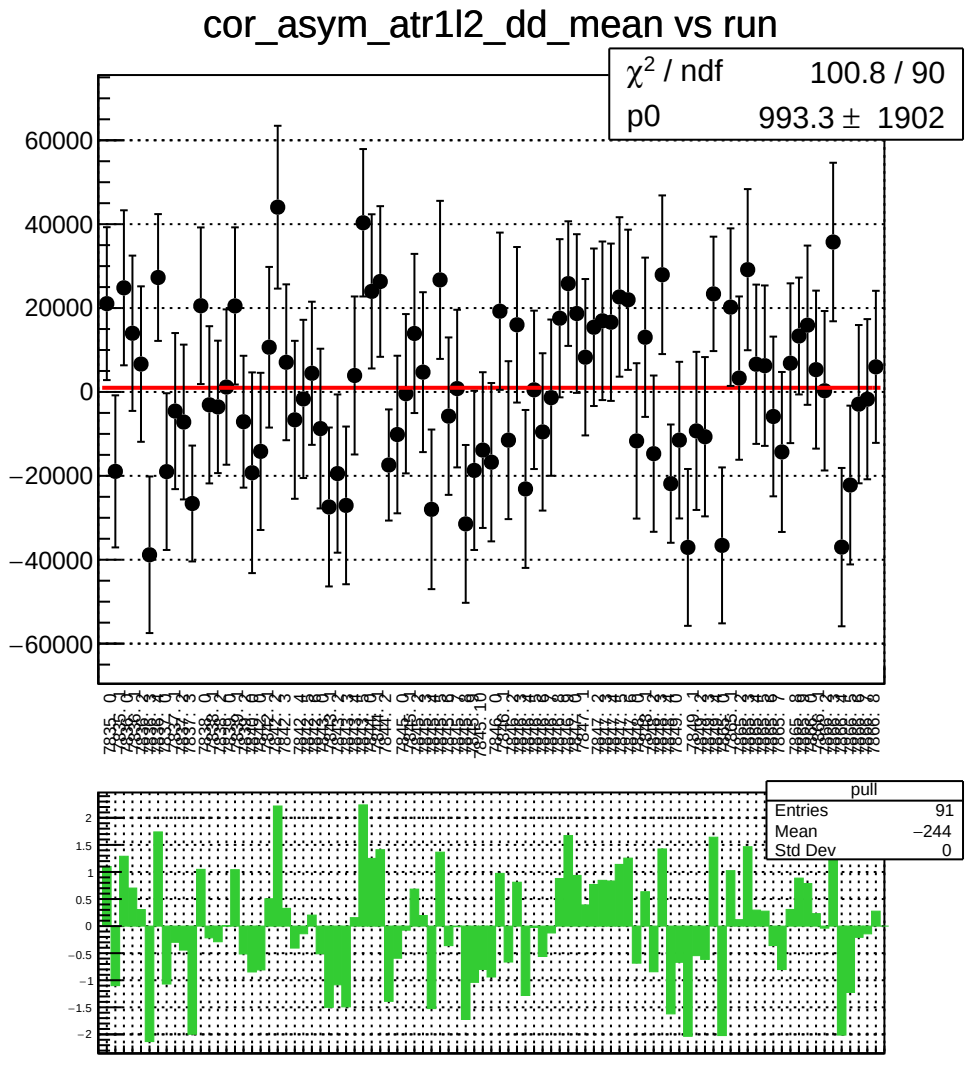

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 100.8 / 90
p0 992.7 ± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −244
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.003134
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

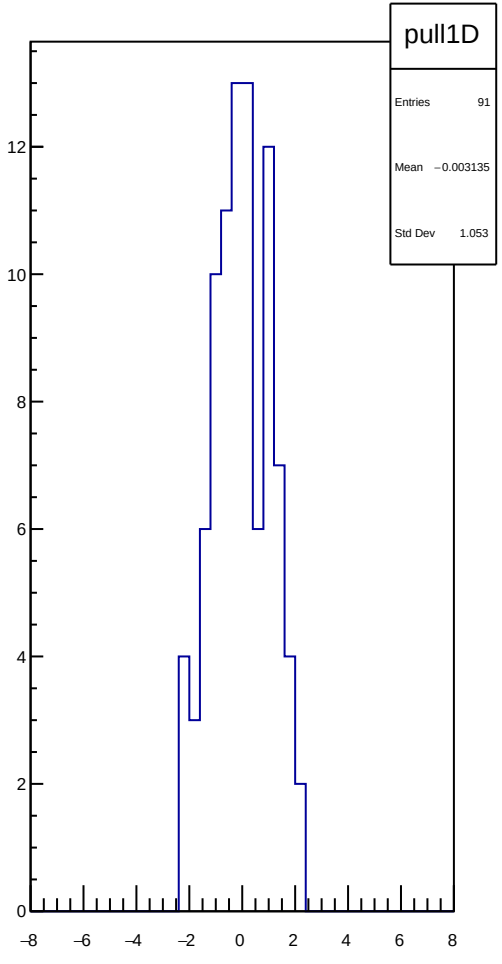

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 268.1 / 90
p0 1782 ± 1.345
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

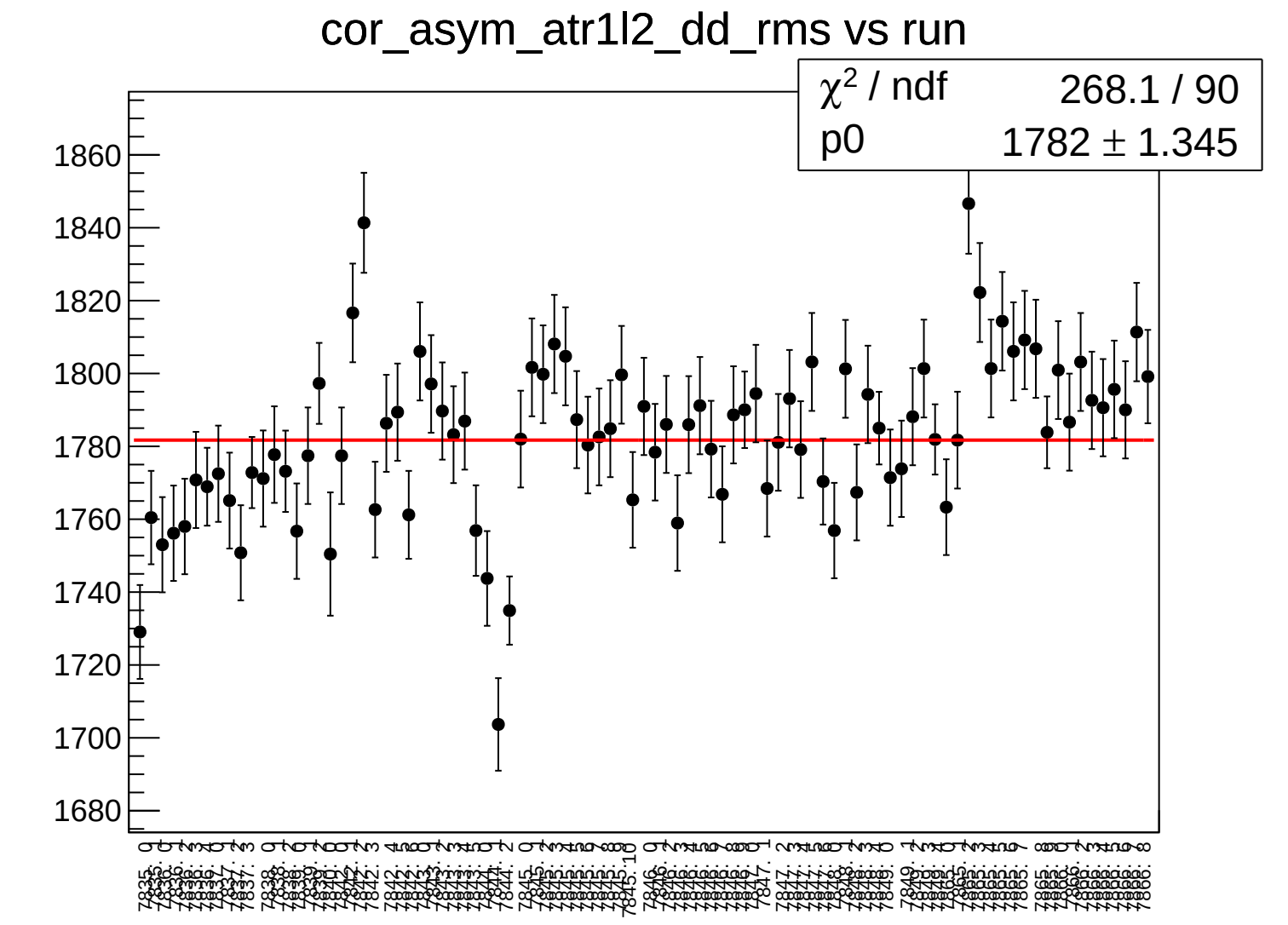

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 105.3 / 90
p0 8906 ± 4906
pull
Entries 91
Mean −97.6
Std Dev 0

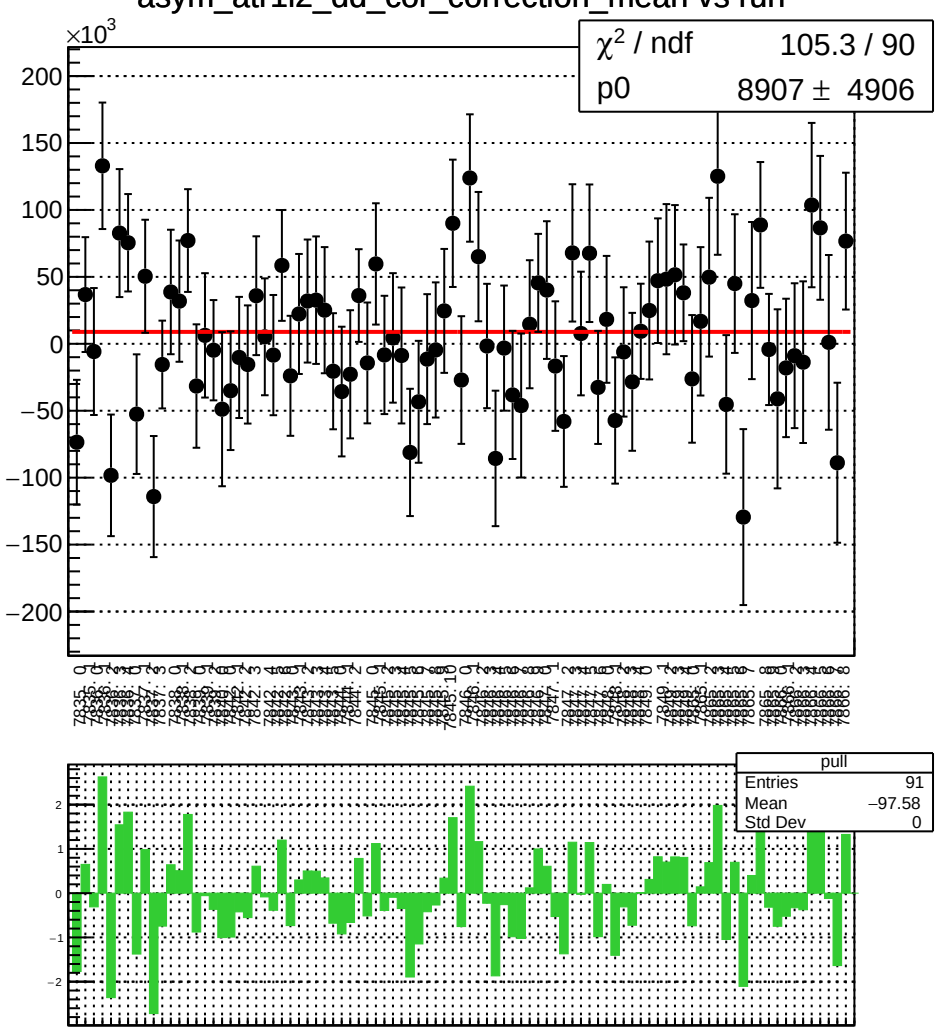

pull1D
Entries 91
Mean −0.01453
Std Dev 1.075

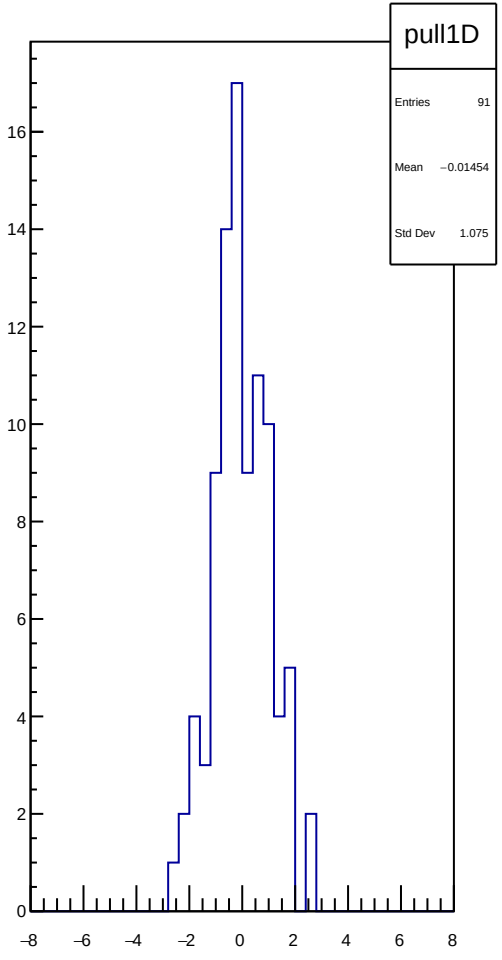

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.438e+04 / 90
p0 4577 ± 3.469
6500
6000
5500
5000
4500
4000

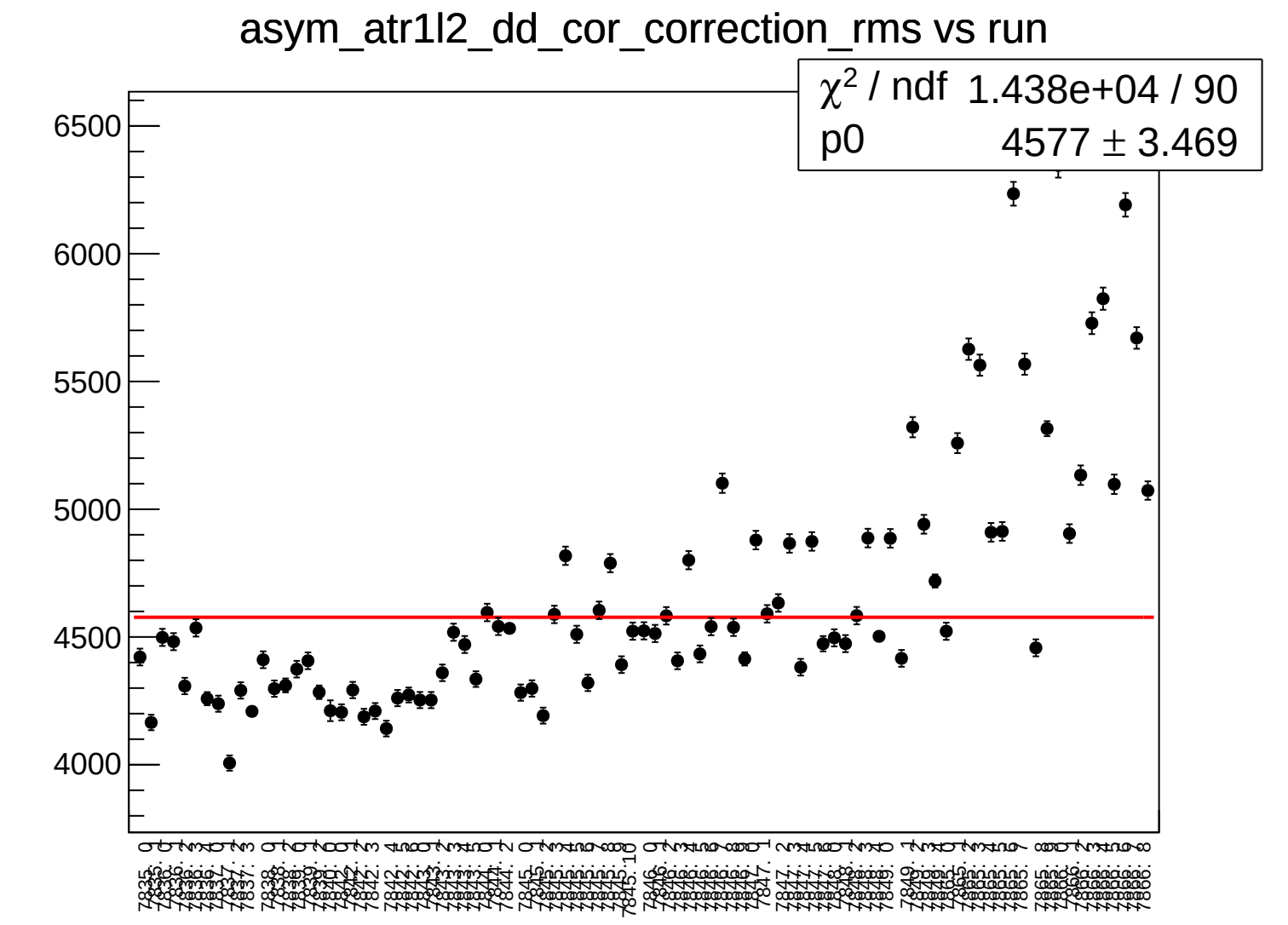

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 100.8 / 90
p0 993.3 ± 1902
pull
Entries 91
Mean −244
Std Dev 0

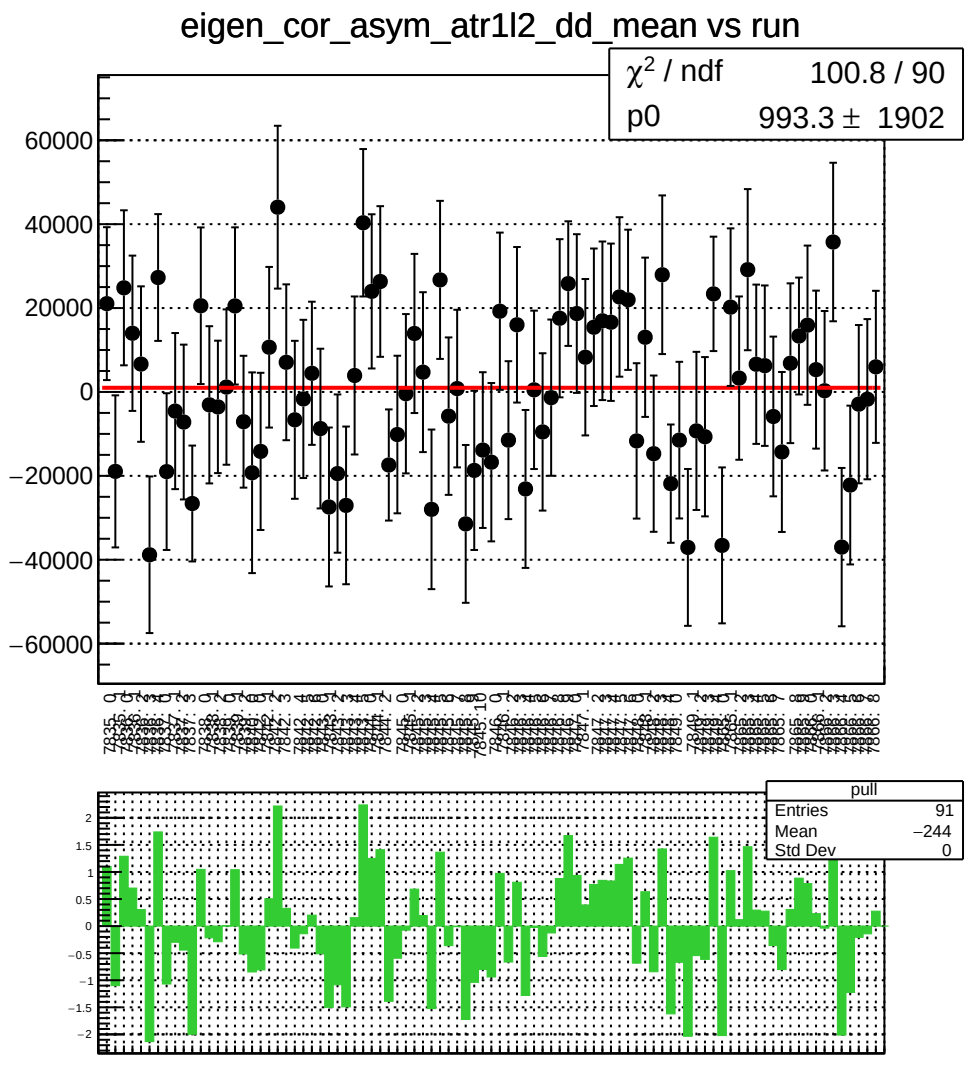

pull1D
Entries 91
Mean −0.003135
Std Dev 1.053

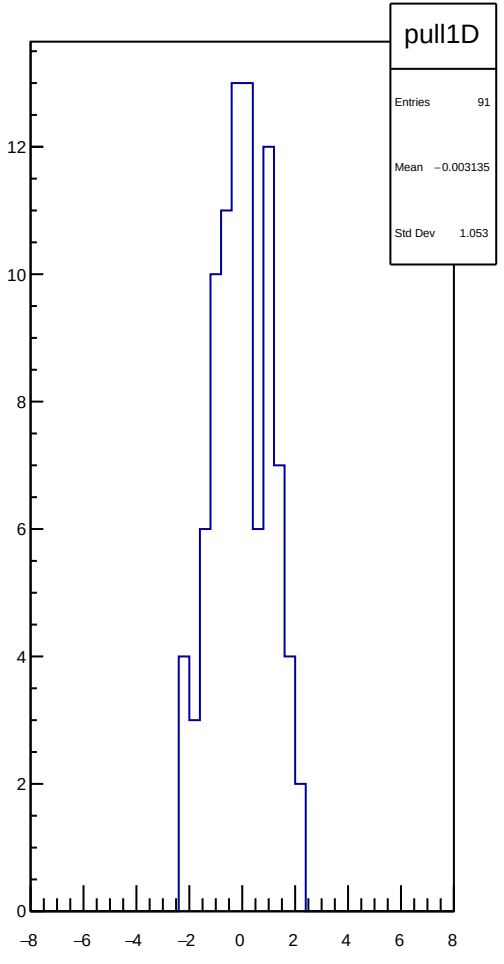

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 268.1 / 90
p0 1782 ± 1.345
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

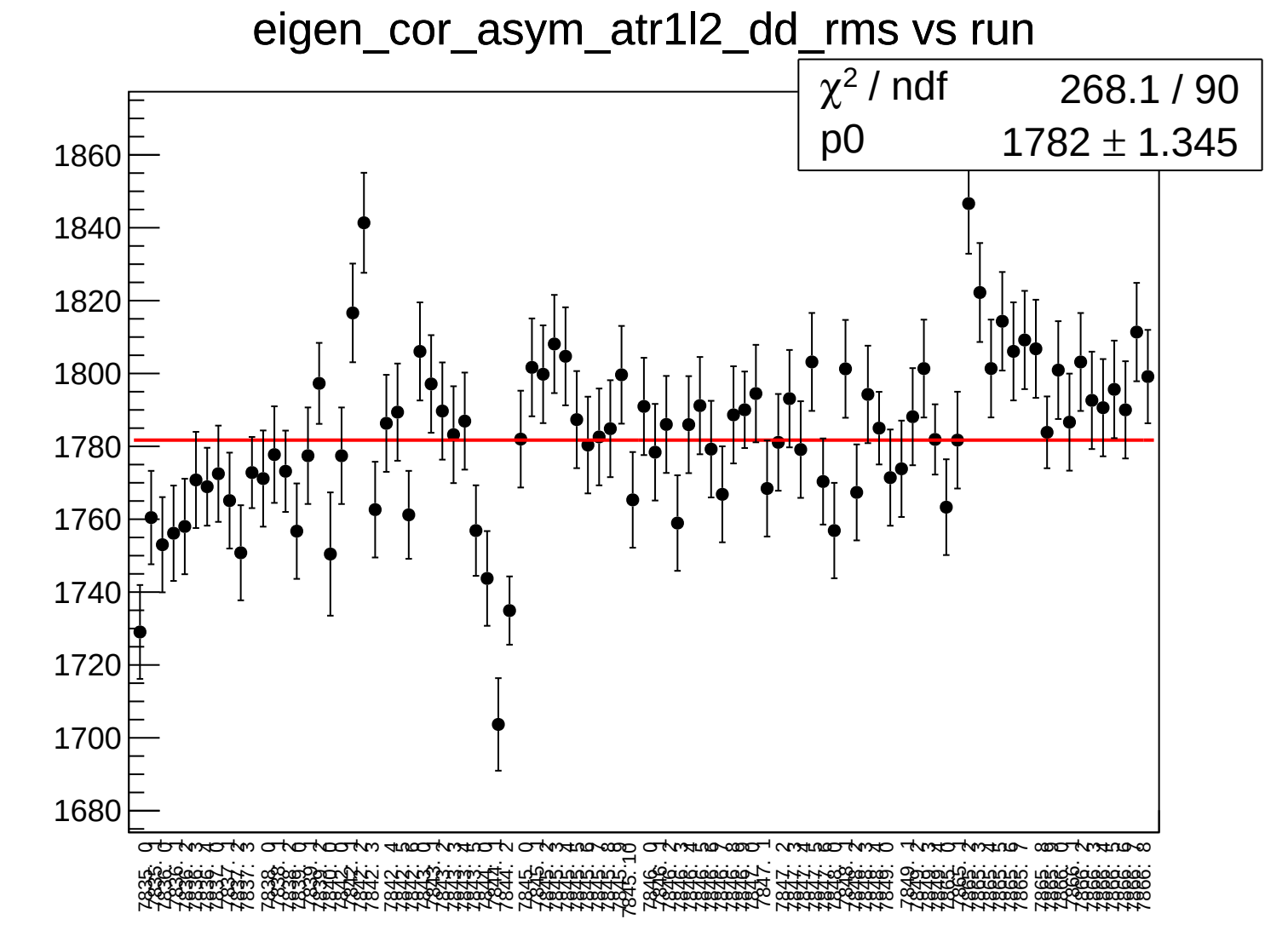

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.3 / 90
p0 8907 ± 4906
pull
Entries 91
Mean −97.58
Std Dev 0

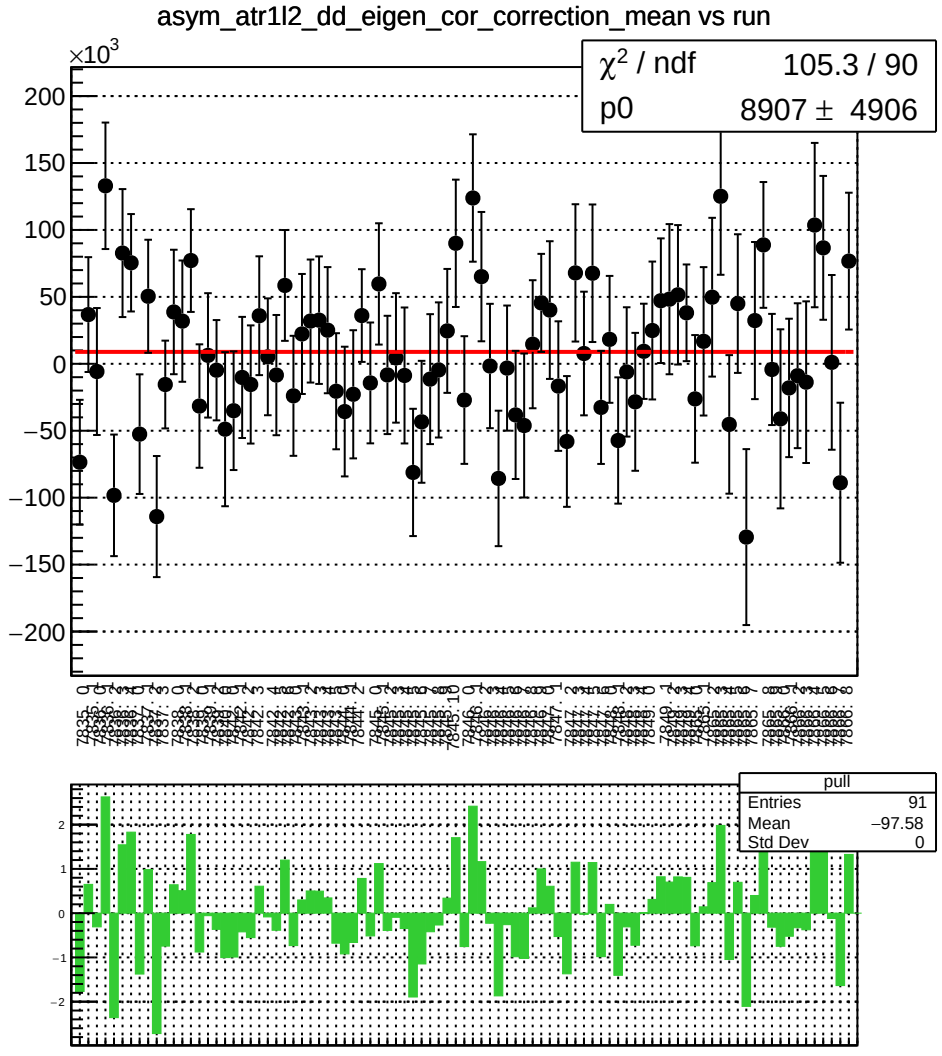

pull1D
Entries 91
Mean −0.01454
Std Dev 1.075

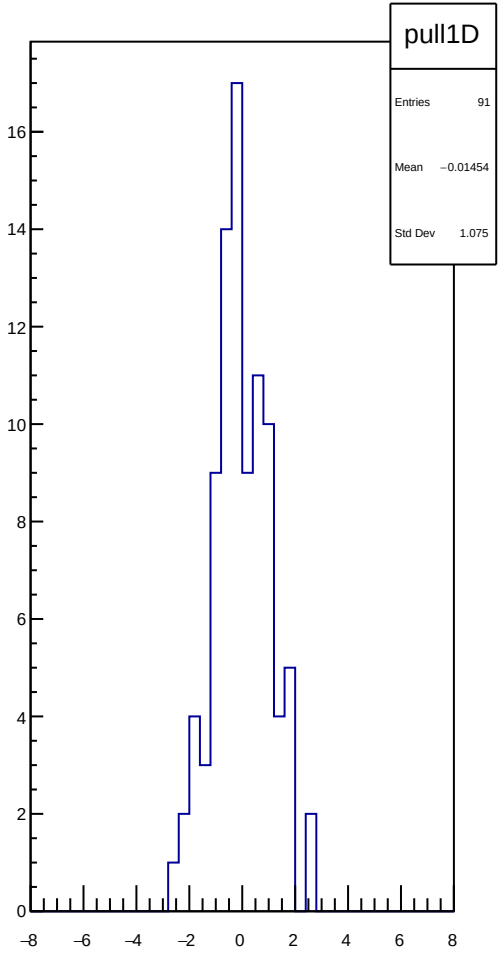

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.438e+04 / 90
p0 4577 ± 3.469
6500
6000
5500
5000
4500
4000

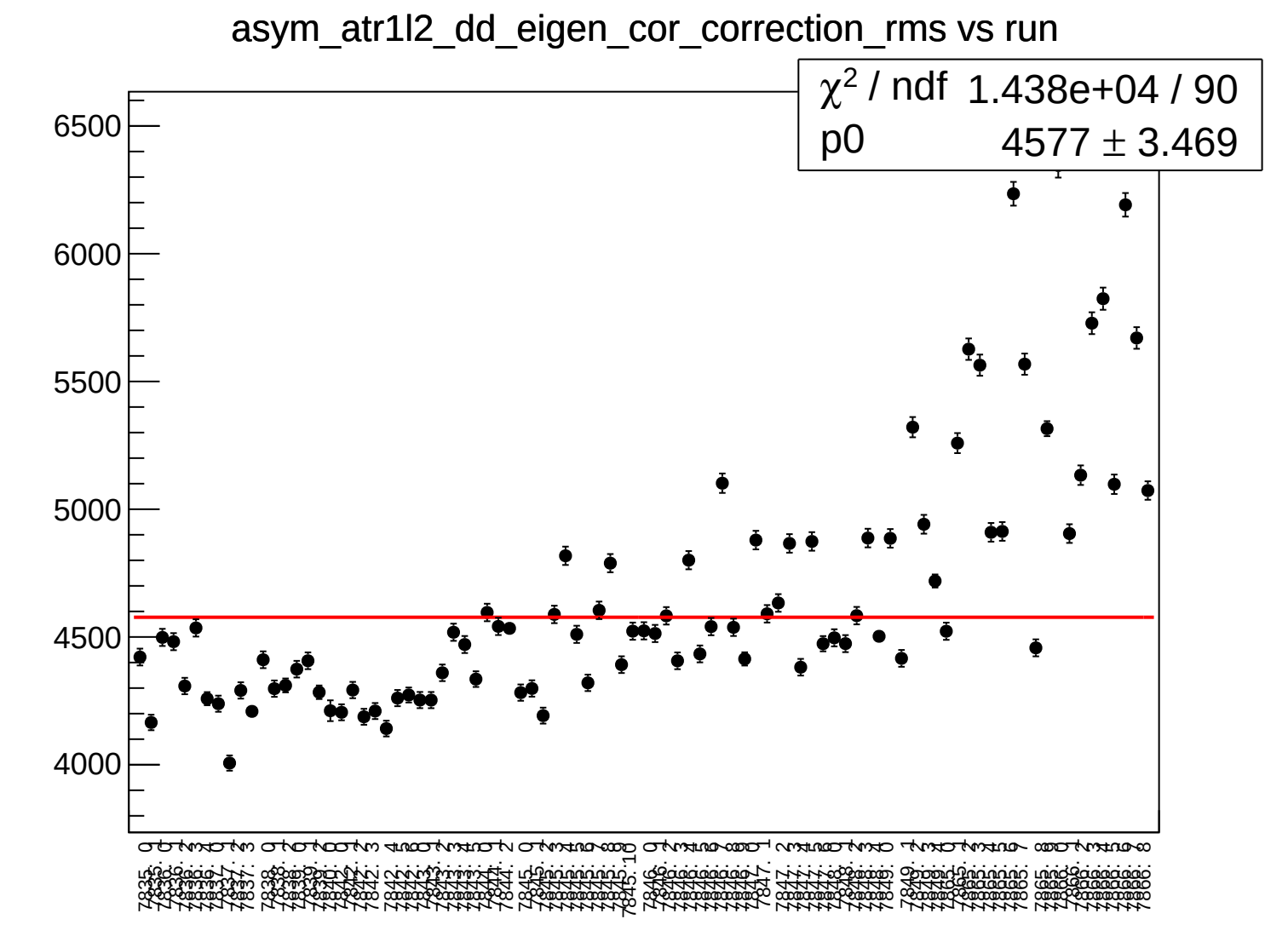

eigen_cor_asym_atr1l2_dd_mean vs run
χ^2 / ndf 100.8 / 90
p0 993.3 ± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −244
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

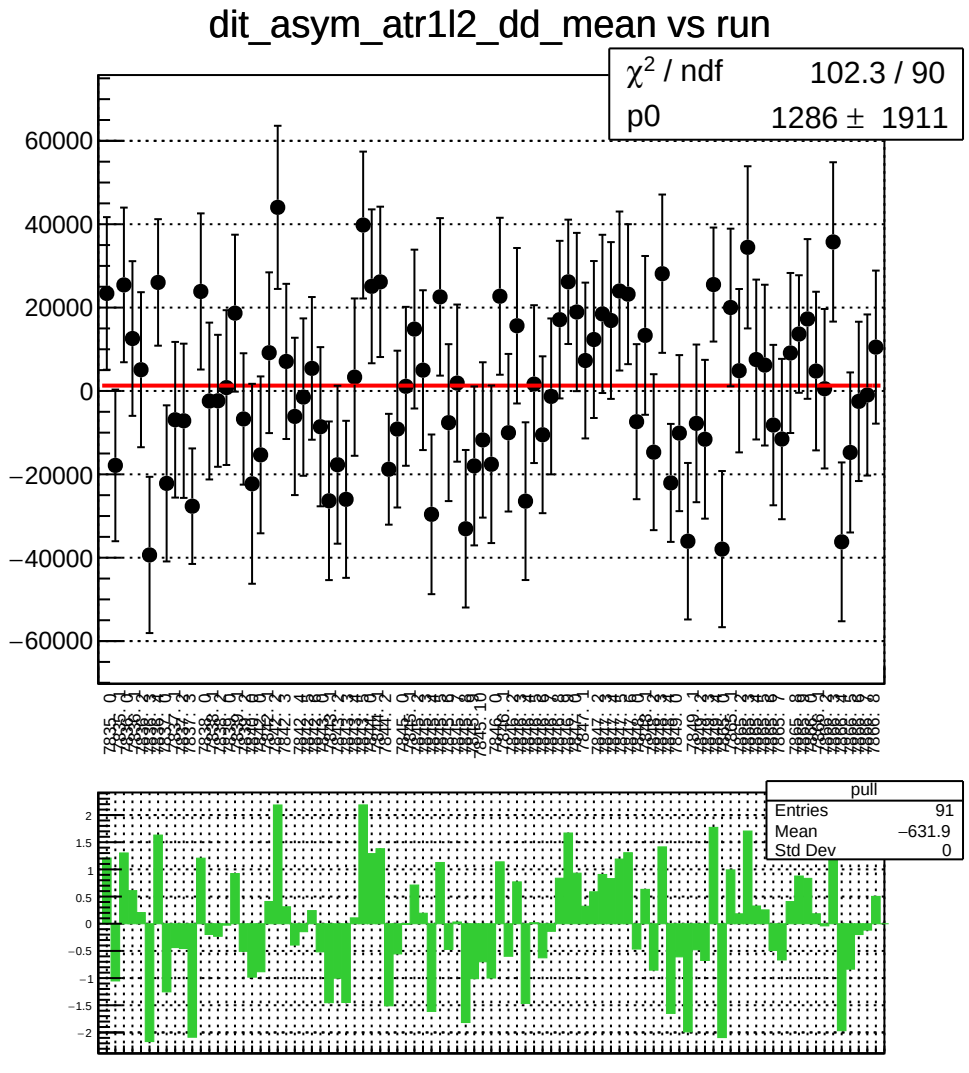

pull1D
Entries 91
Mean −0.003135
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

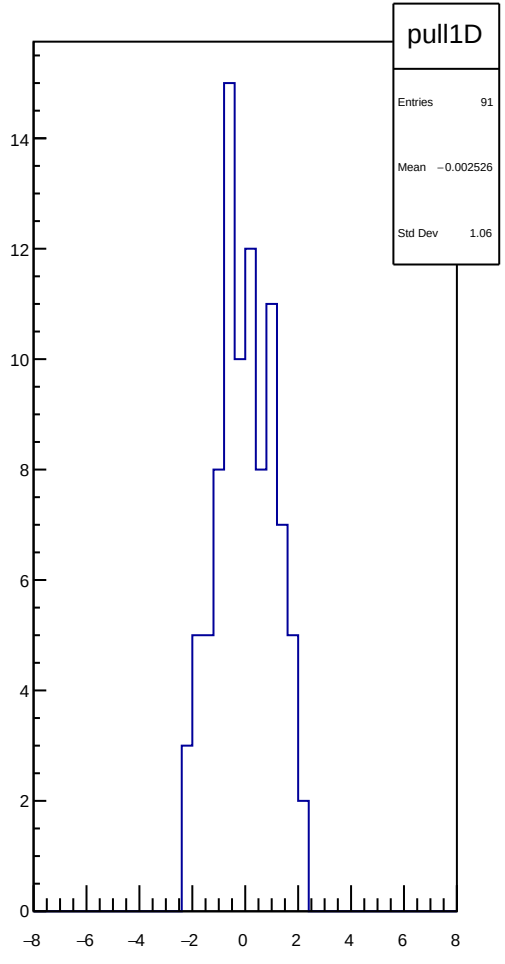

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 268.1 / 90
p0 1782 ± 1.345
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

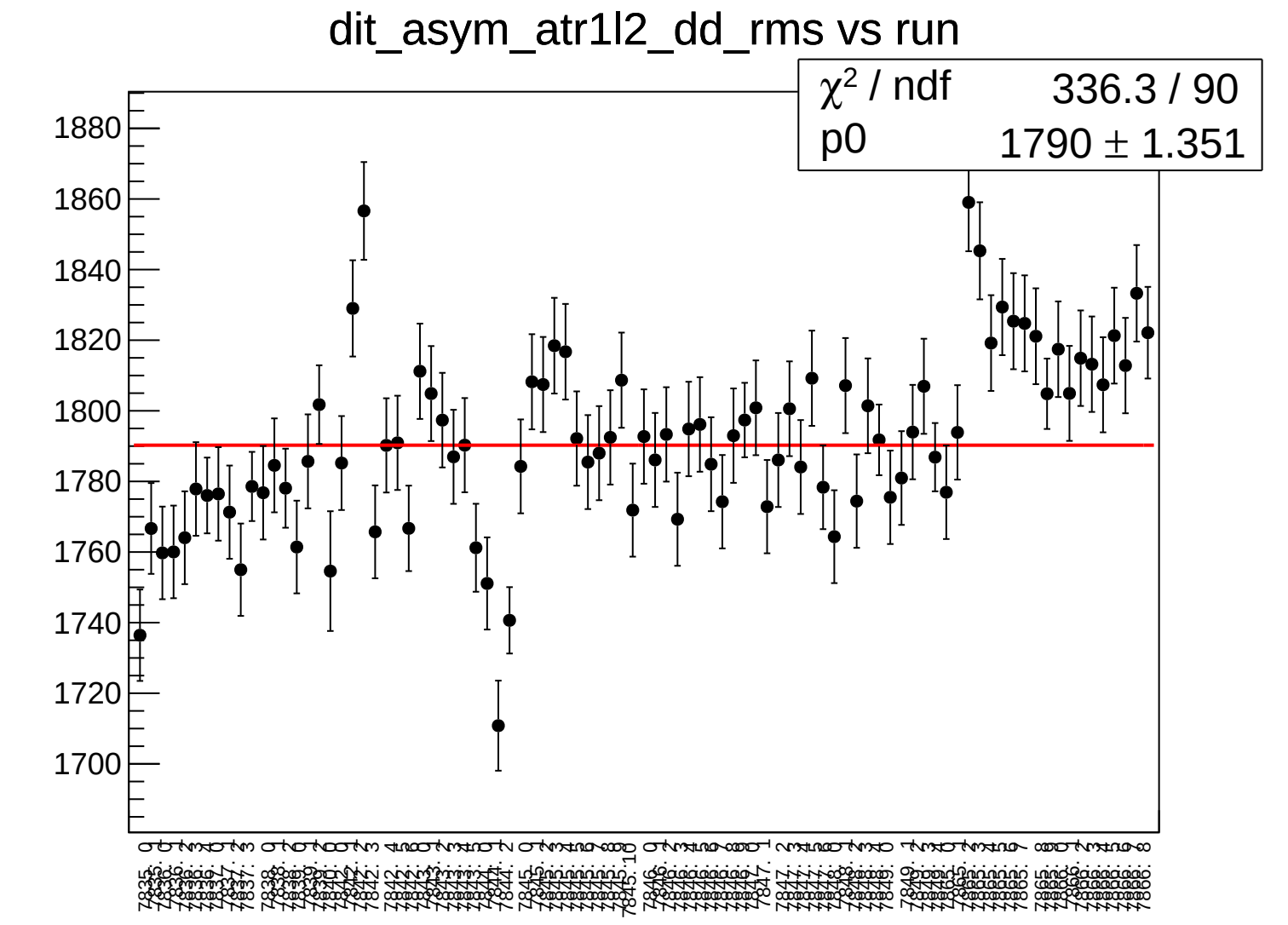

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.3 / 90
p0 8907 ± 4906
pull
Entries 91
Mean −97.58
Std Dev 0

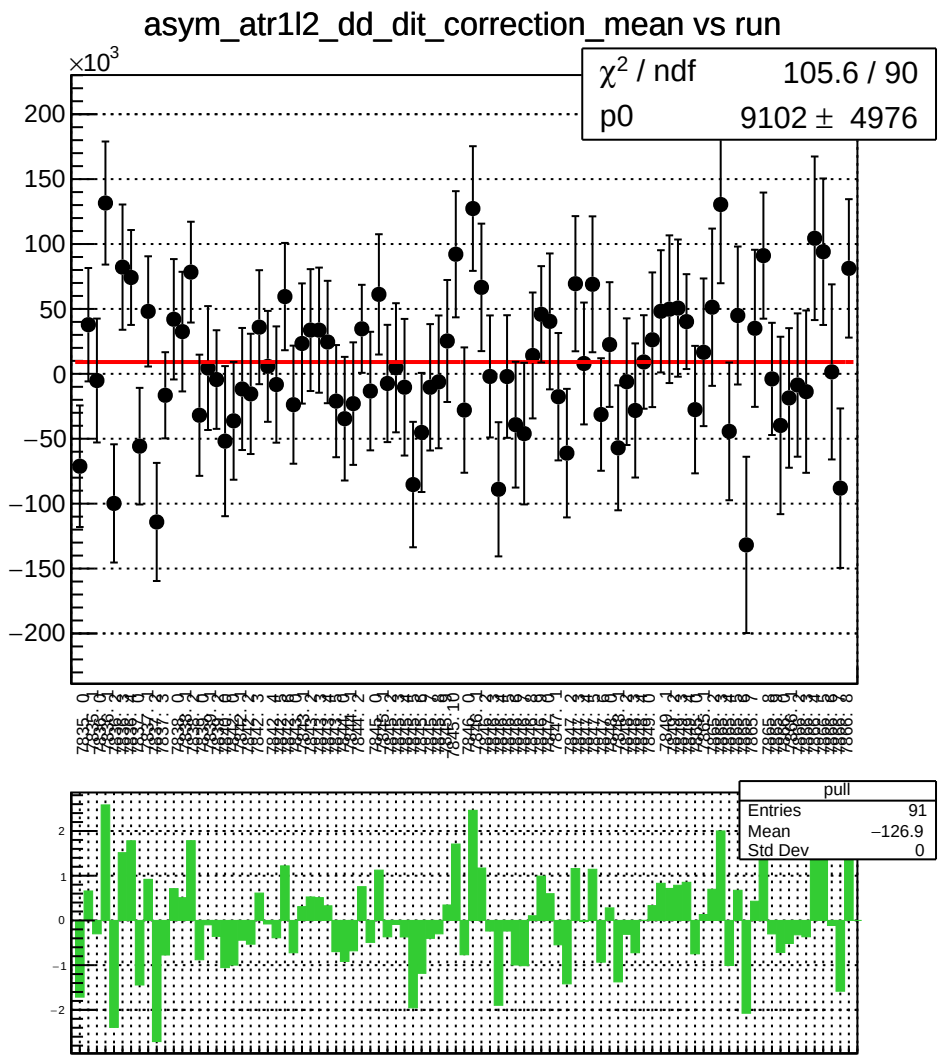

pull1D
Entries 91
Mean −0.01454
Std Dev 1.075

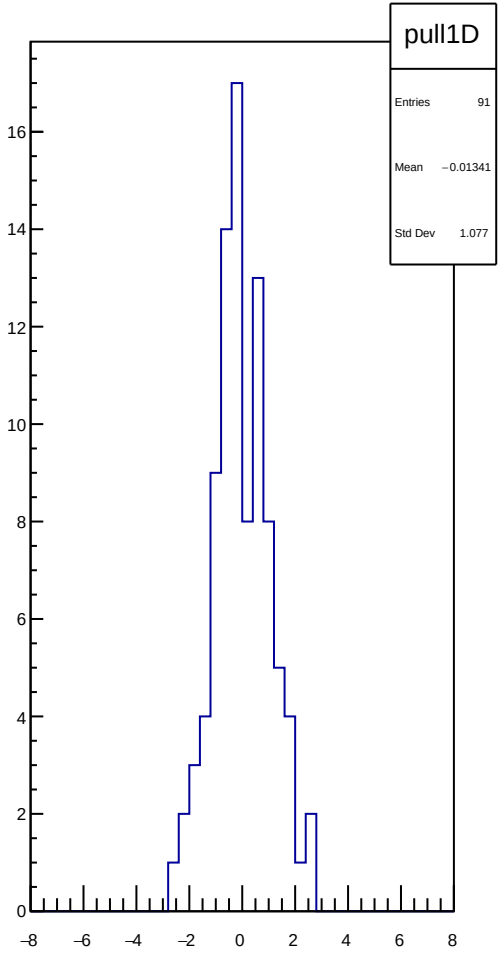

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.438e+04 / 90
p0 4577 ± 3.469
6500
6000
5500
5000
4500
4000

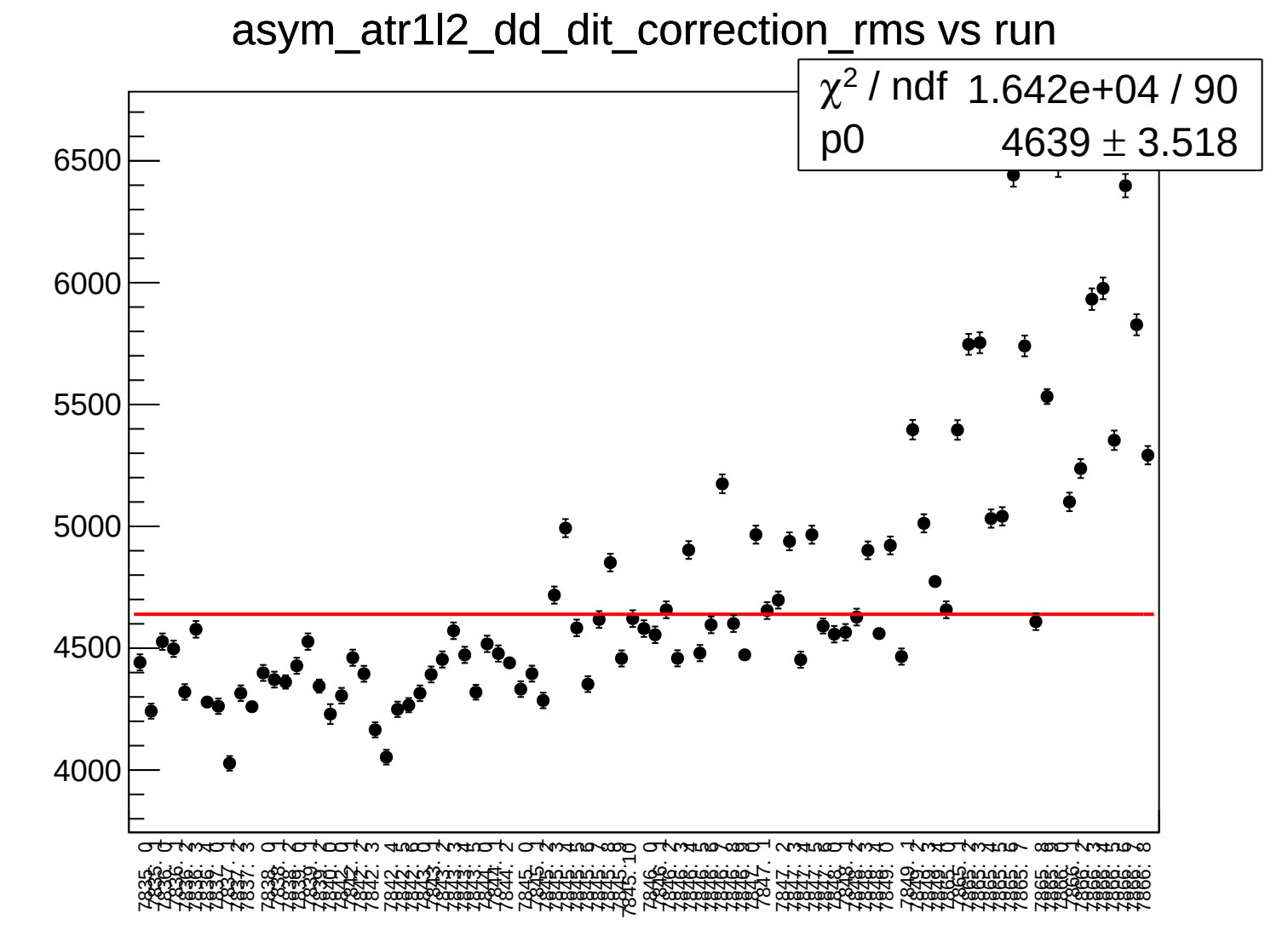

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 102.3 / 90
p0 1286 ± 1911
pull
Entries 91
Mean −631.9
Std Dev 0

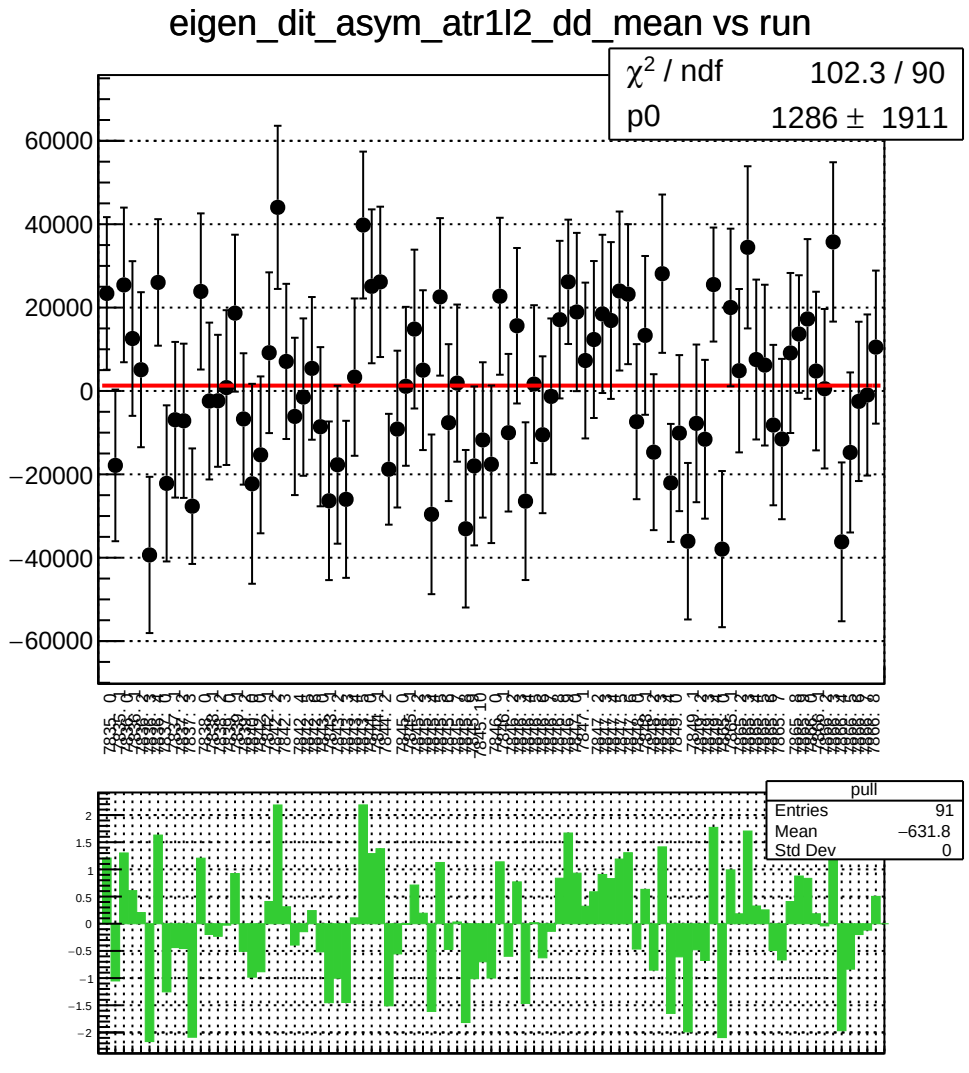

pull1D
Entries 91
Mean −0.002526
Std Dev 1.06

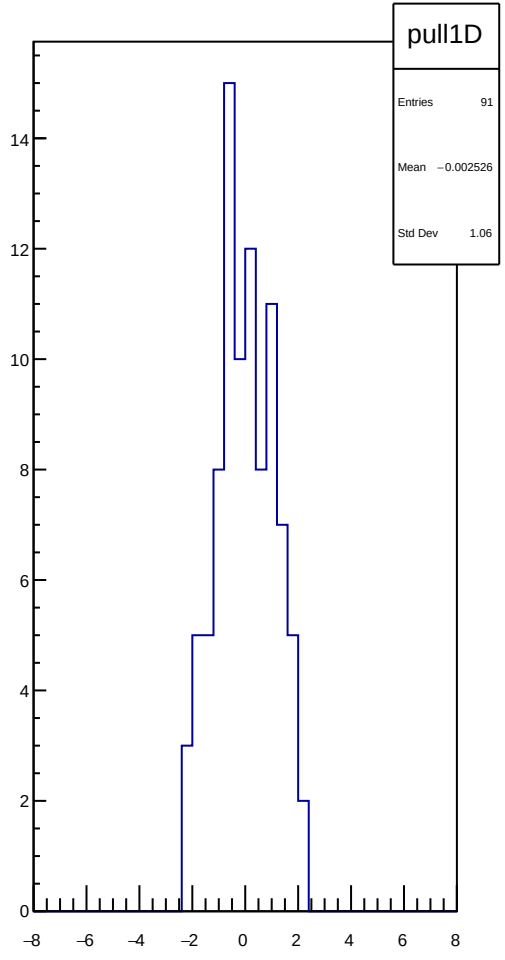

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 336.3 / 90
p0 1790 ± 1.351
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

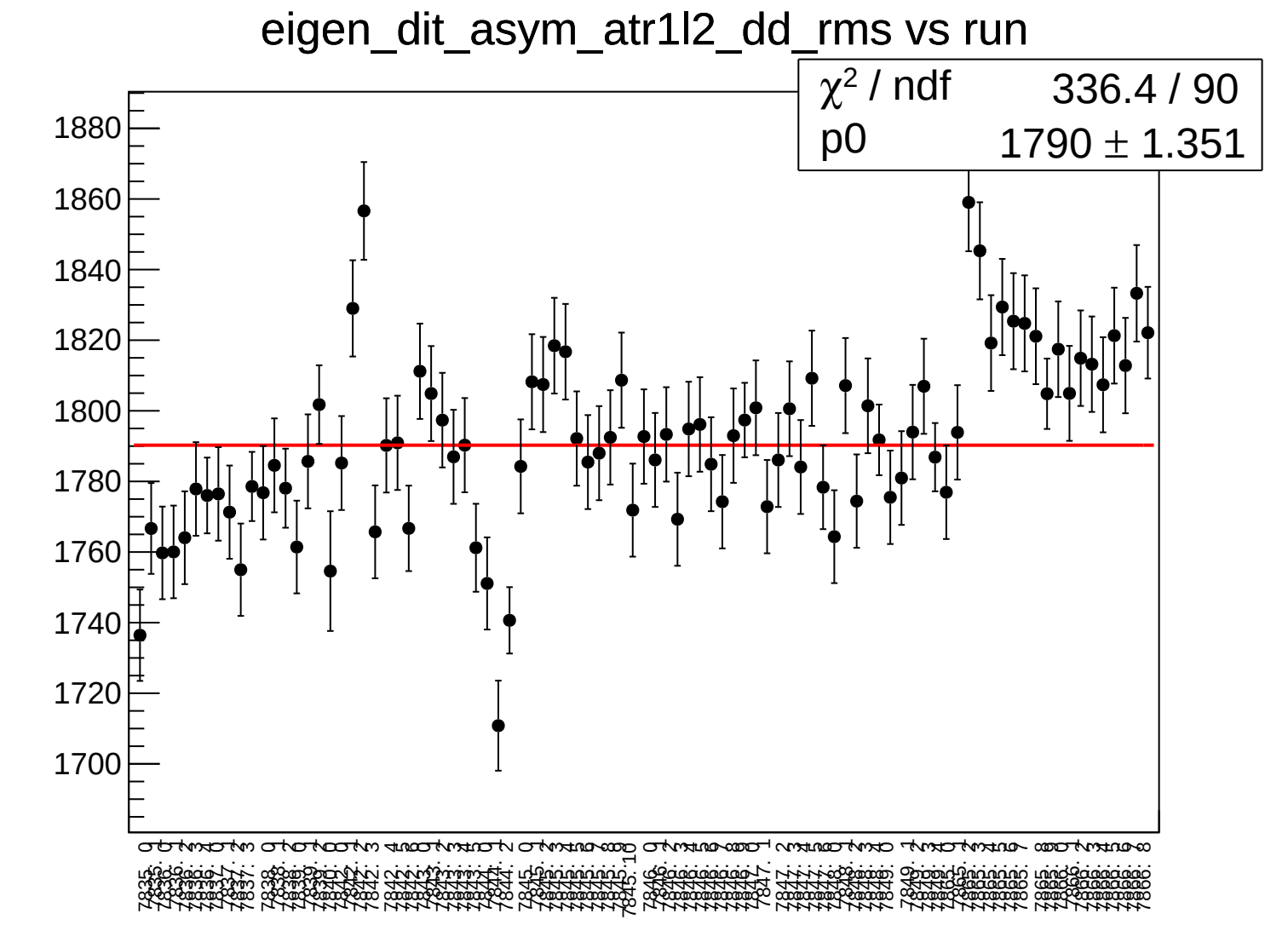

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 105.6 / 90
p0 9102 ± 4976
pull
Entries 91
Mean −126.9
Std Dev 0

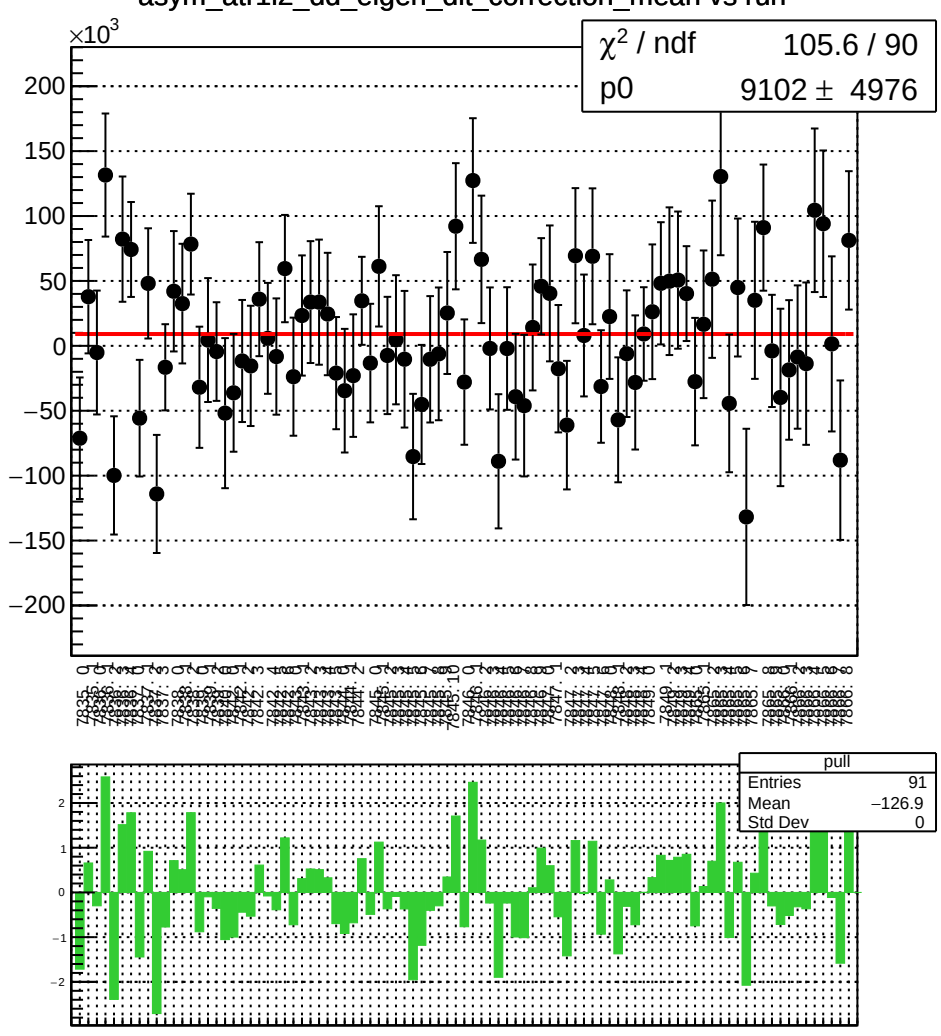

pull1D
Entries 91
Mean −0.01341
Std Dev 1.077

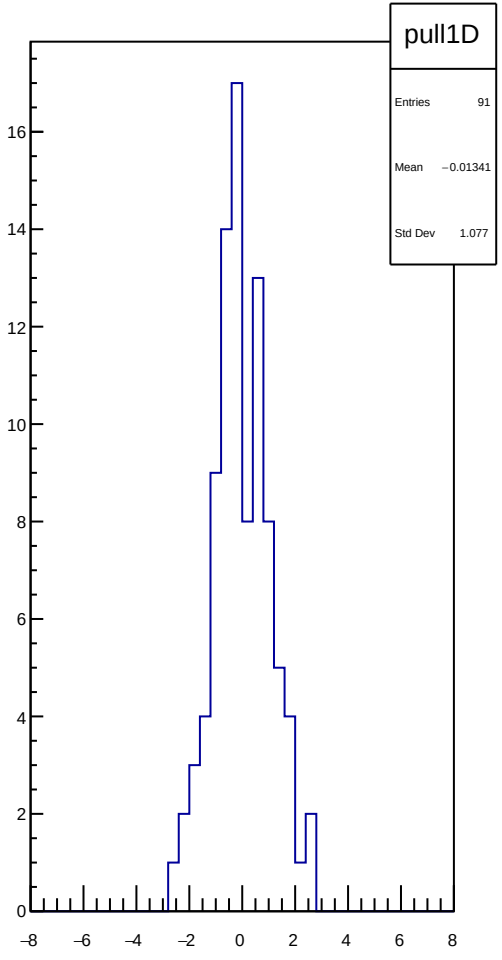

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.642e+04 / 90
p0 4639 ± 3.518
6500
6000
5500
5000
4500
4000

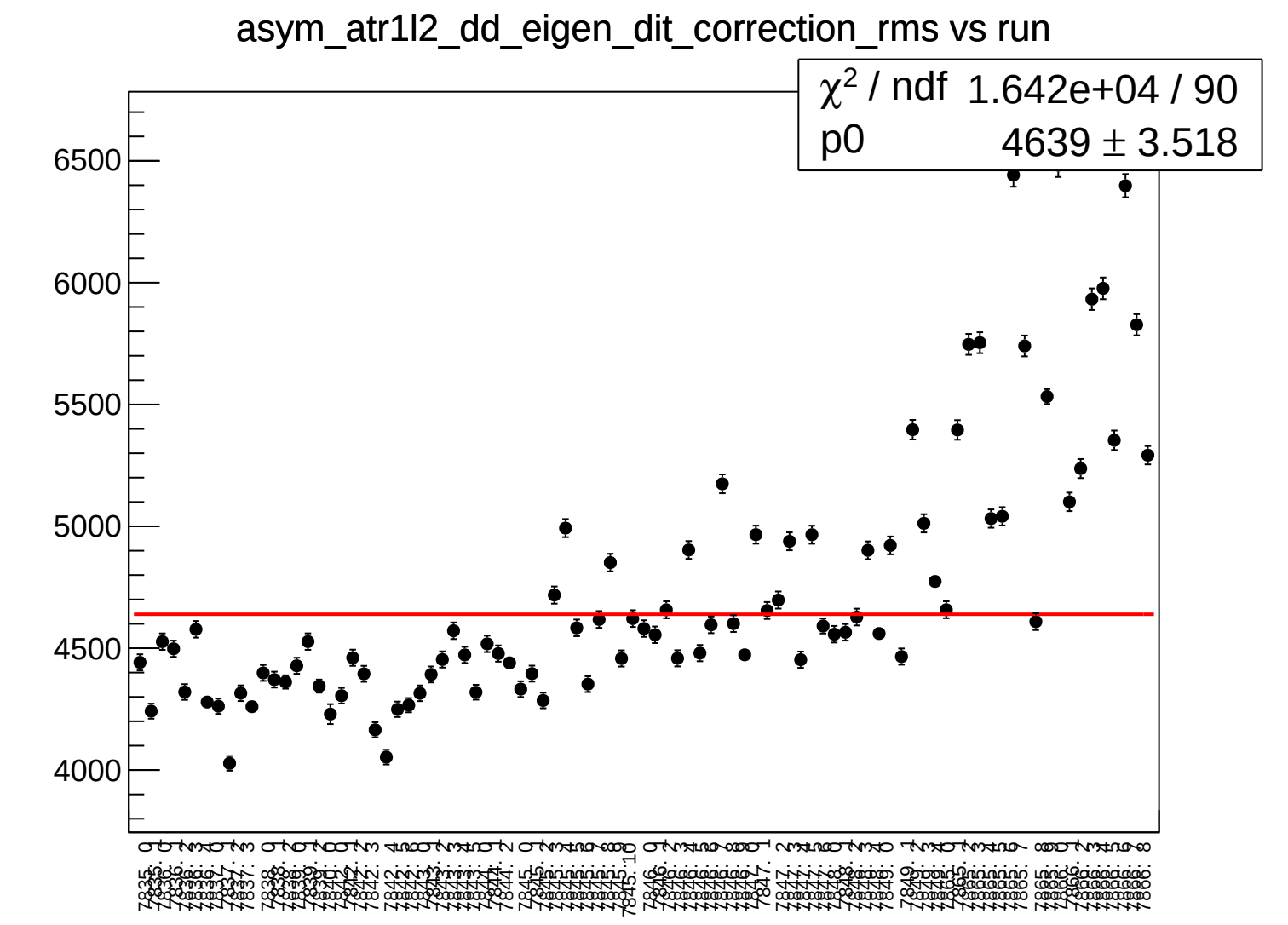

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 102.3 / 90
p0 1286 ± 1911
pull
Entries 91
Mean −631.8
Std Dev 0

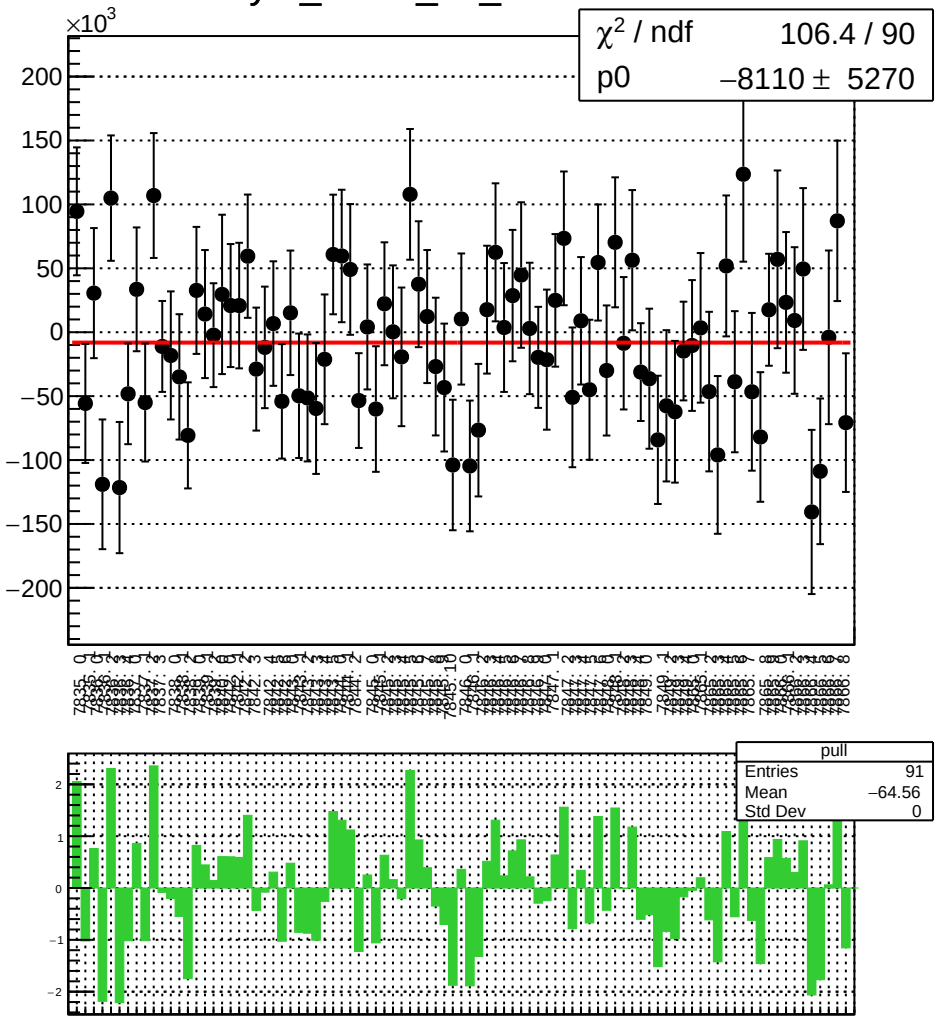

pull1D
Entries 91
Mean −0.002526
Std Dev 1.06

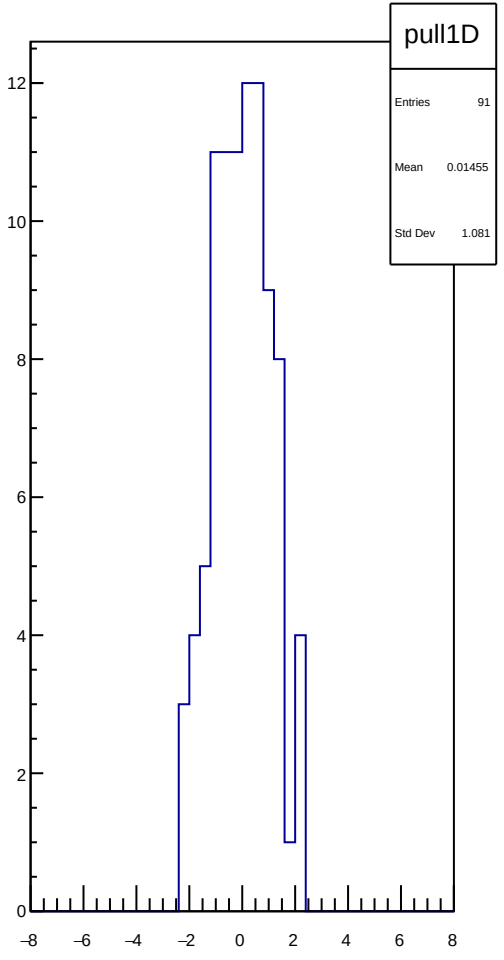

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 336.4 / 90
p0 1790 ± 1.351
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

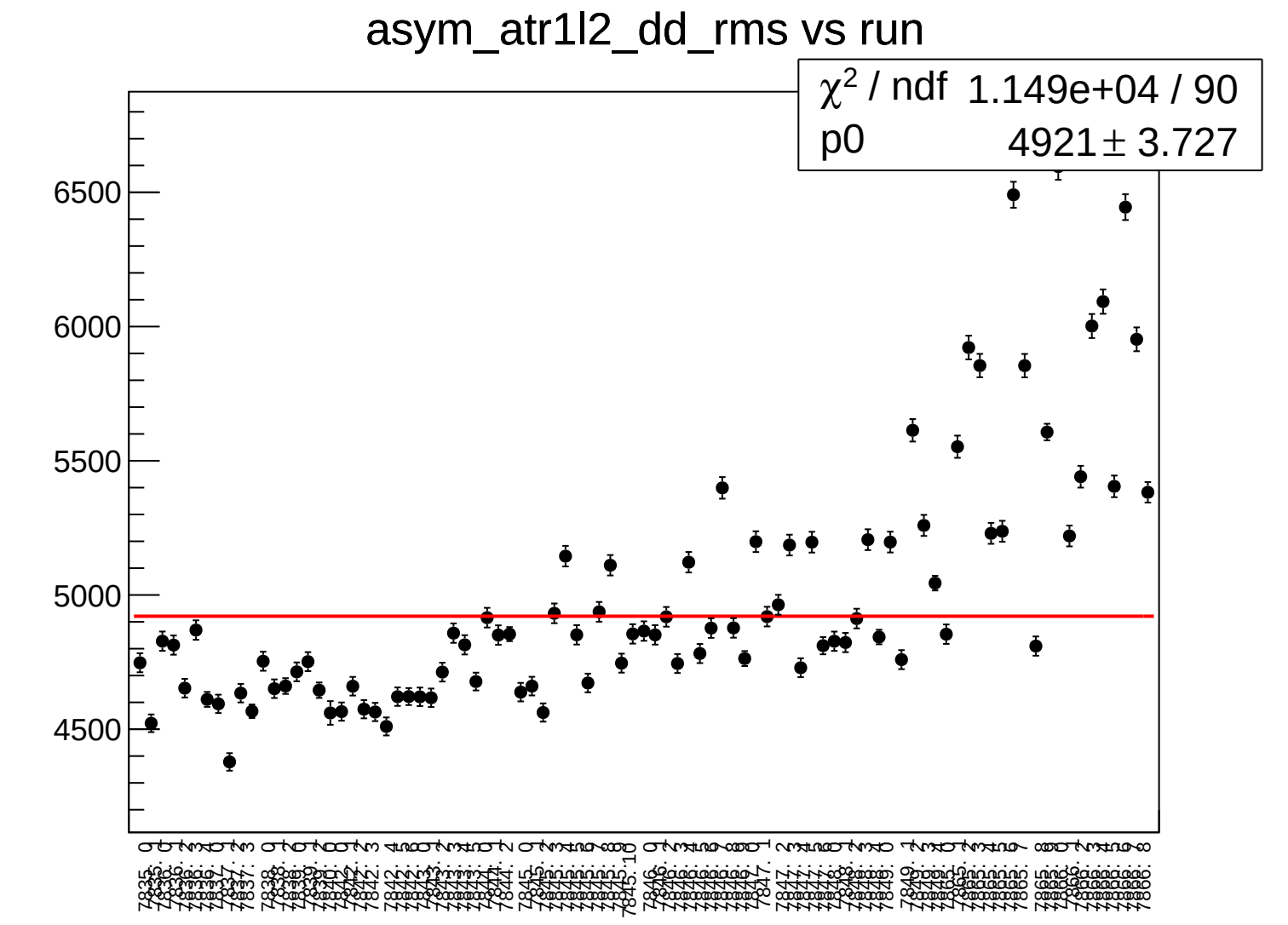

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.6 / 90
p0 9102 ± 4976
pull
Entries 91
Mean −126.9
Std Dev 0

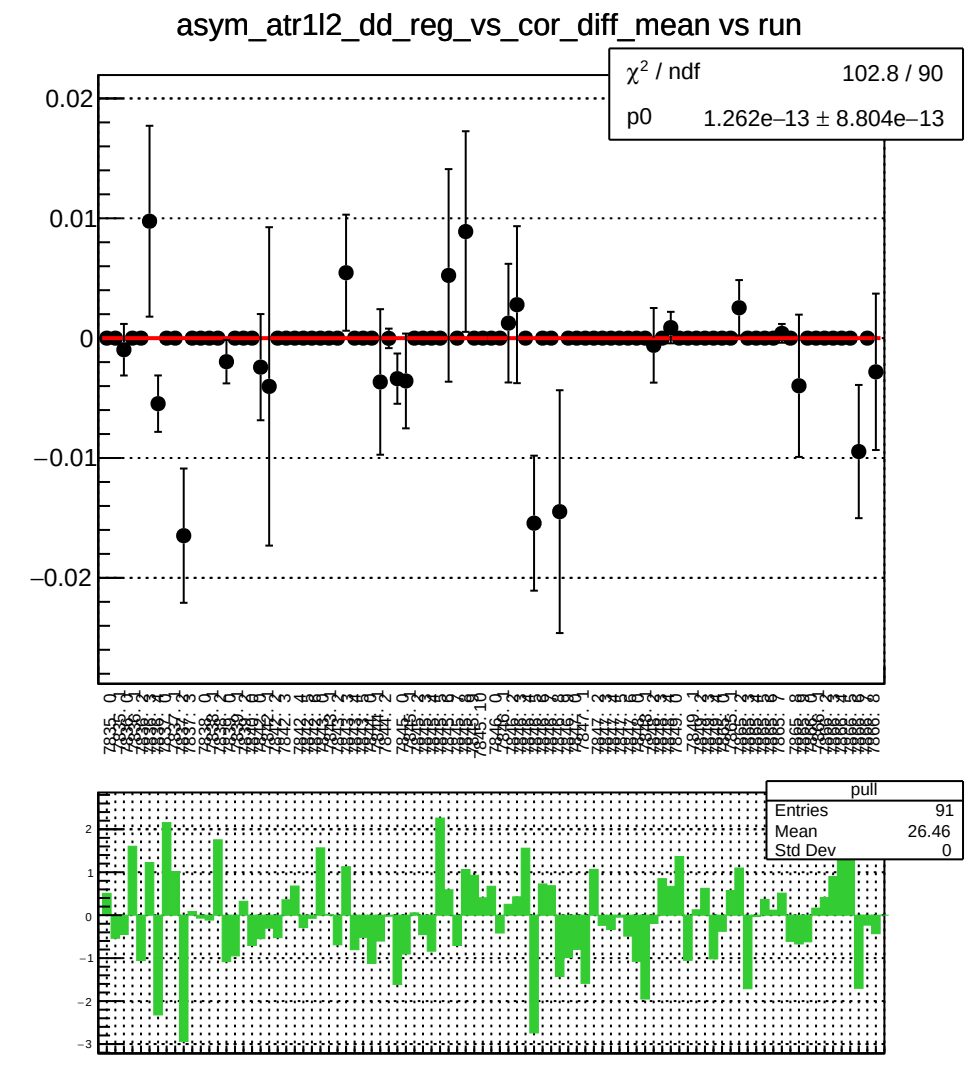

pull1D
Entries 91
Mean −0.01341
Std Dev 1.077

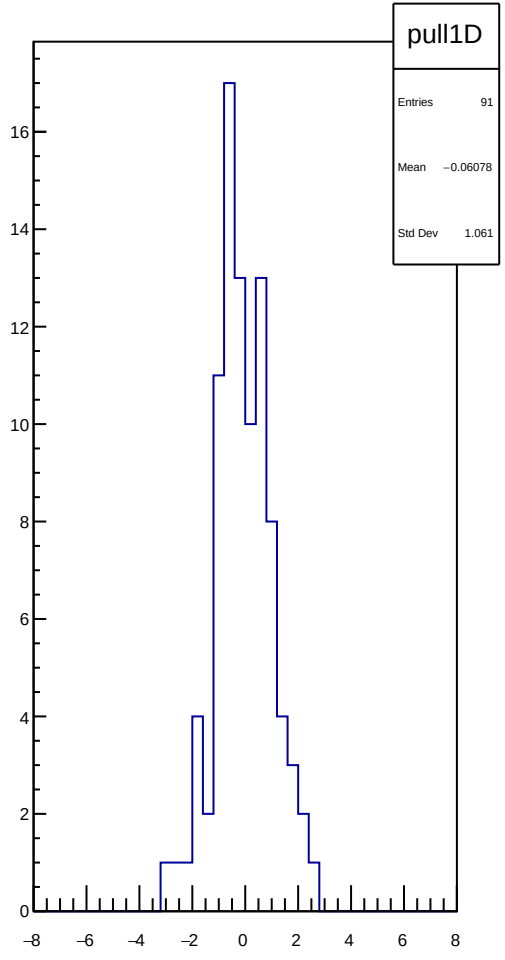

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.642e+04 / 90
p0 4639 ± 3.518
6500
6000
5500
5000
4500
4000

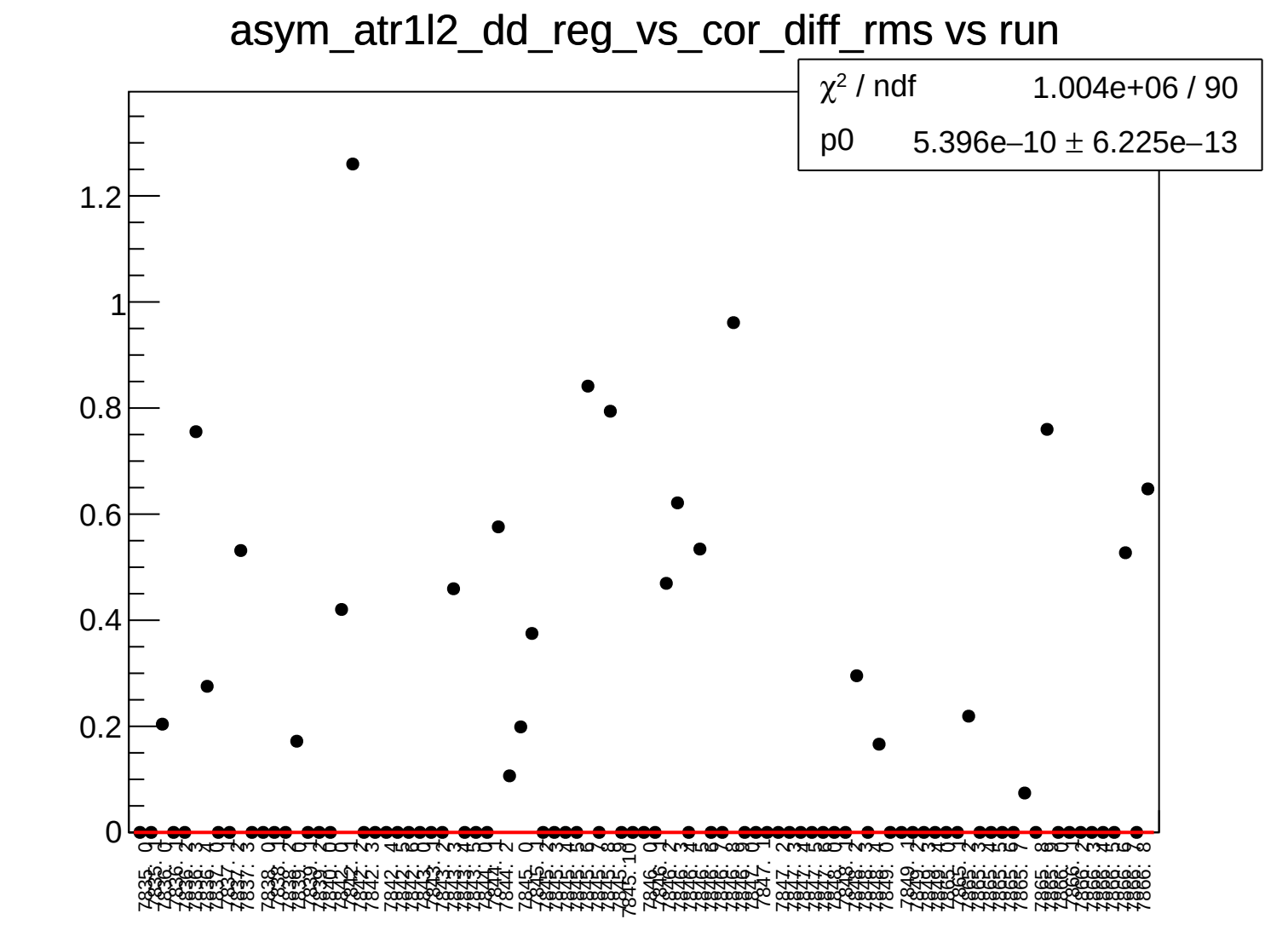

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 106.4 / 90
p0 −8110 ± 5270
pull
Entries 91
Mean −64.56
Std Dev 0

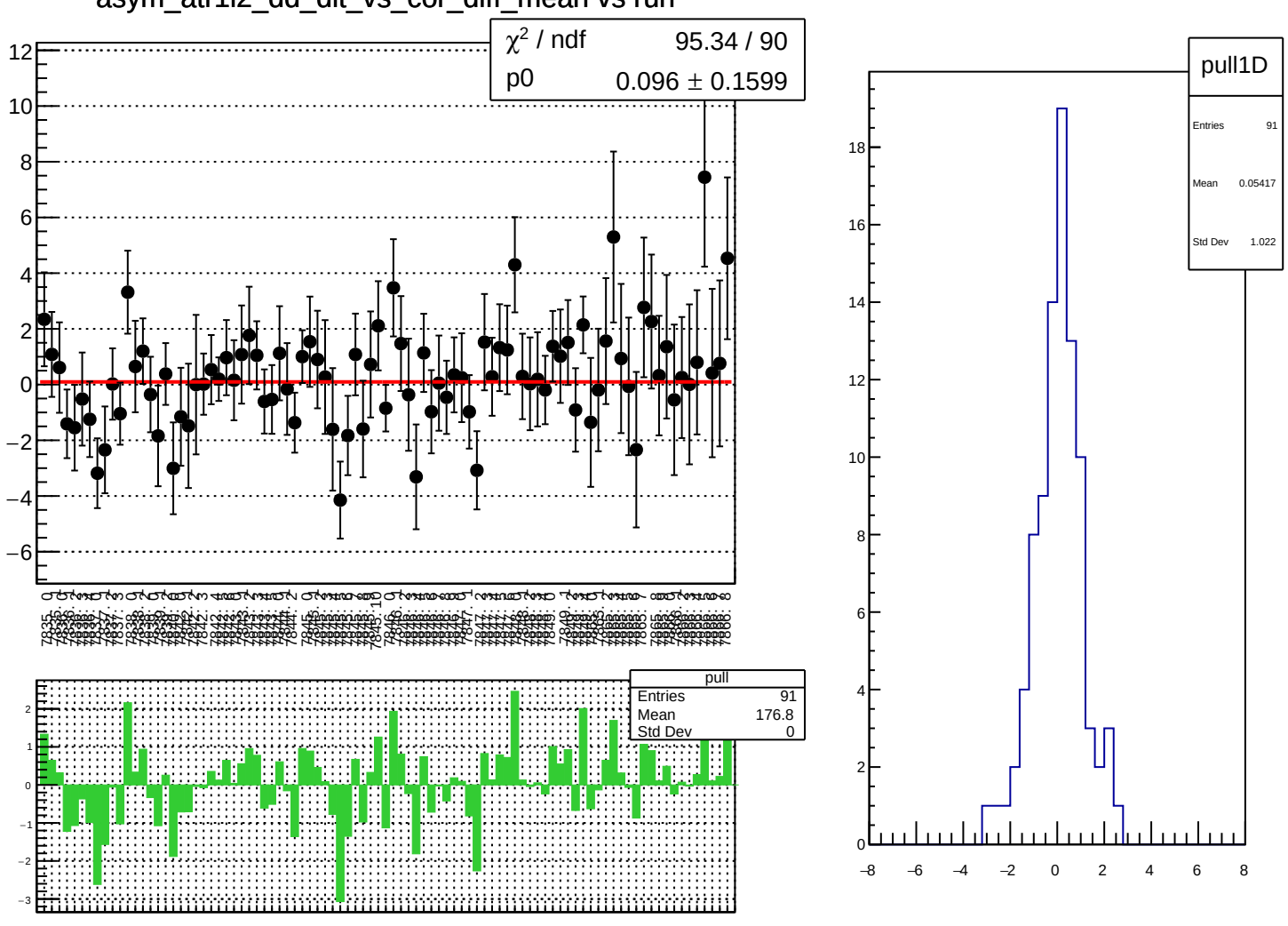

pull1D
Entries 91
Mean 0.01455
Std Dev 1.081

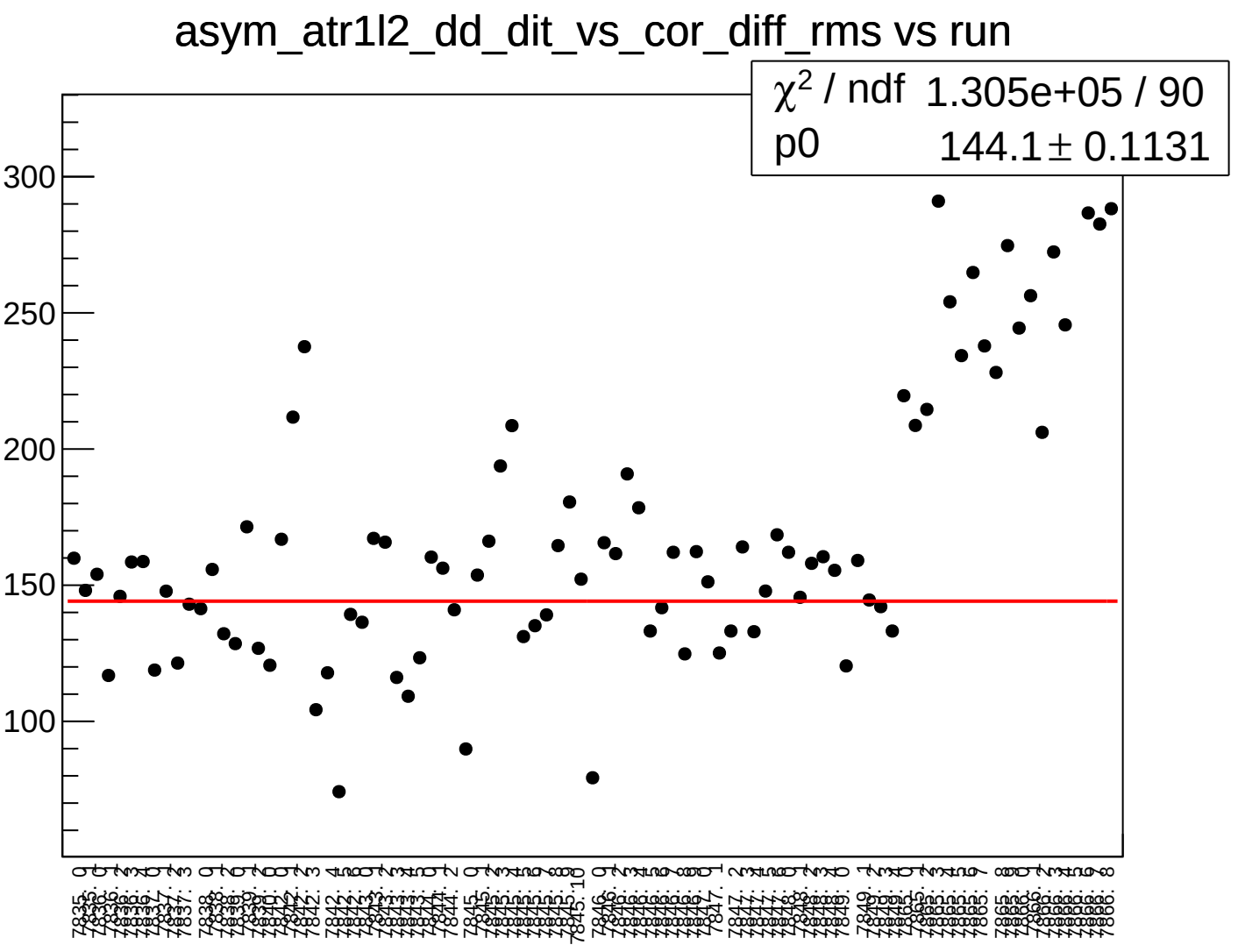

asym_atr1l2_dd_rms vs run
χ² / ndf 1.149e+04 / 90
p0 4921 ± 3.727
6500
6000
5500
5000
4500

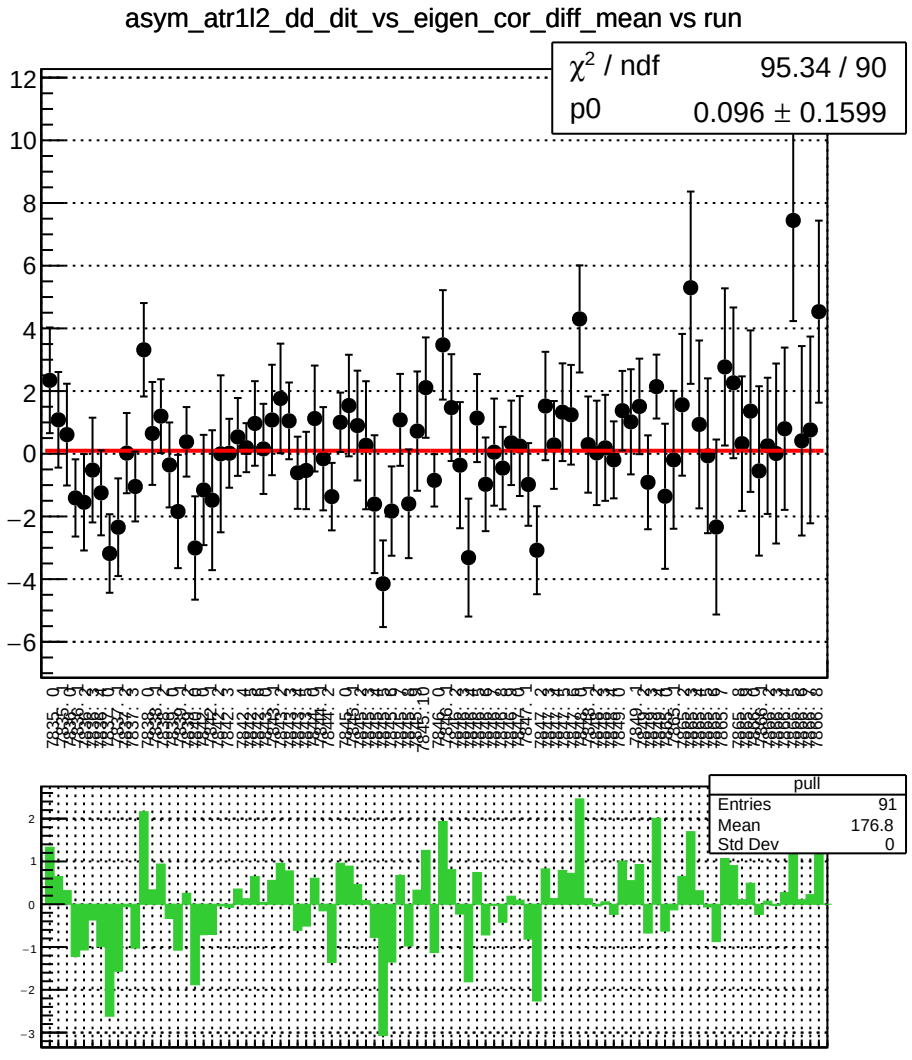

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 1.262e−13 ± 8.804e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 26.46
Std Dev 0
2
1
0
−1
−2
−3

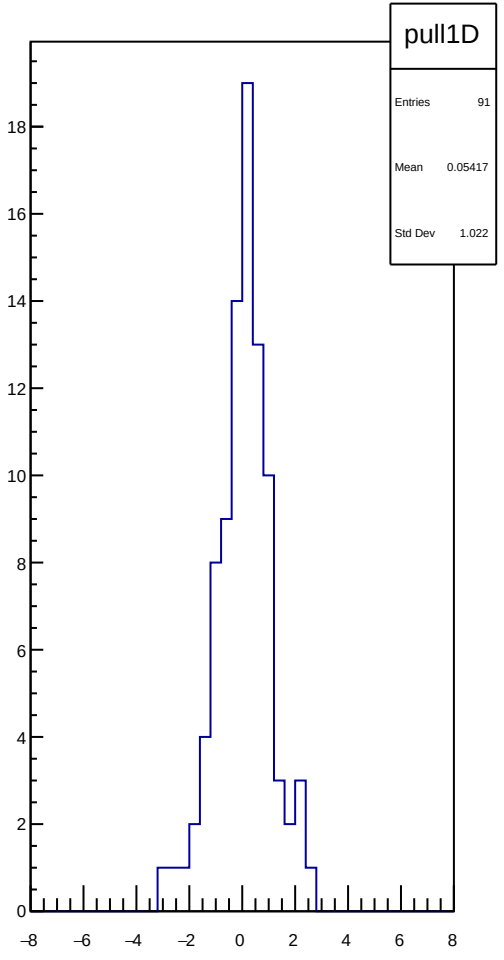

pull1D
Entries 91
Mean −0.06078
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

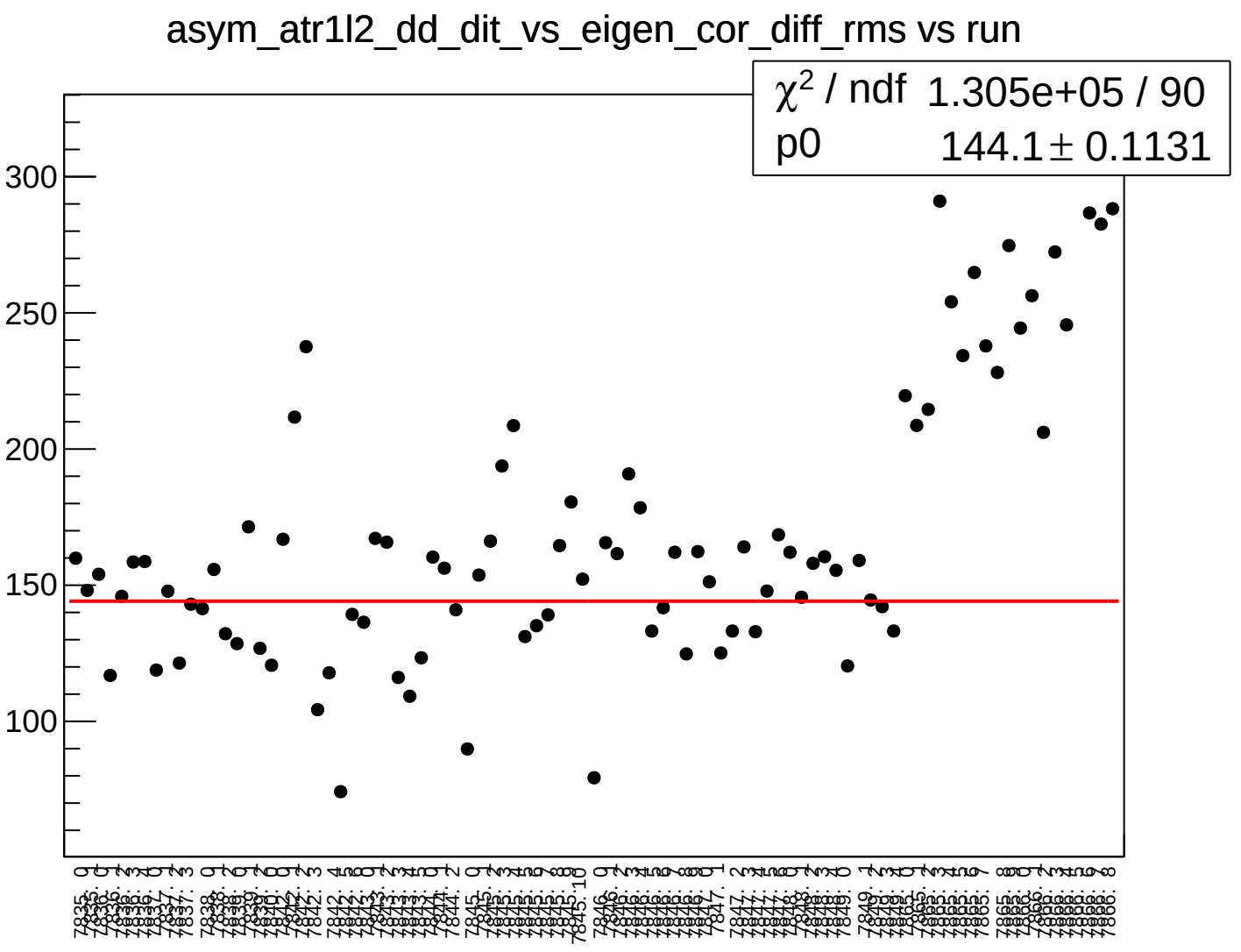

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 90
p0 5.396e−10 ± 6.225e−13
1.2
1
0.8
0.6
0.4
0.2
0

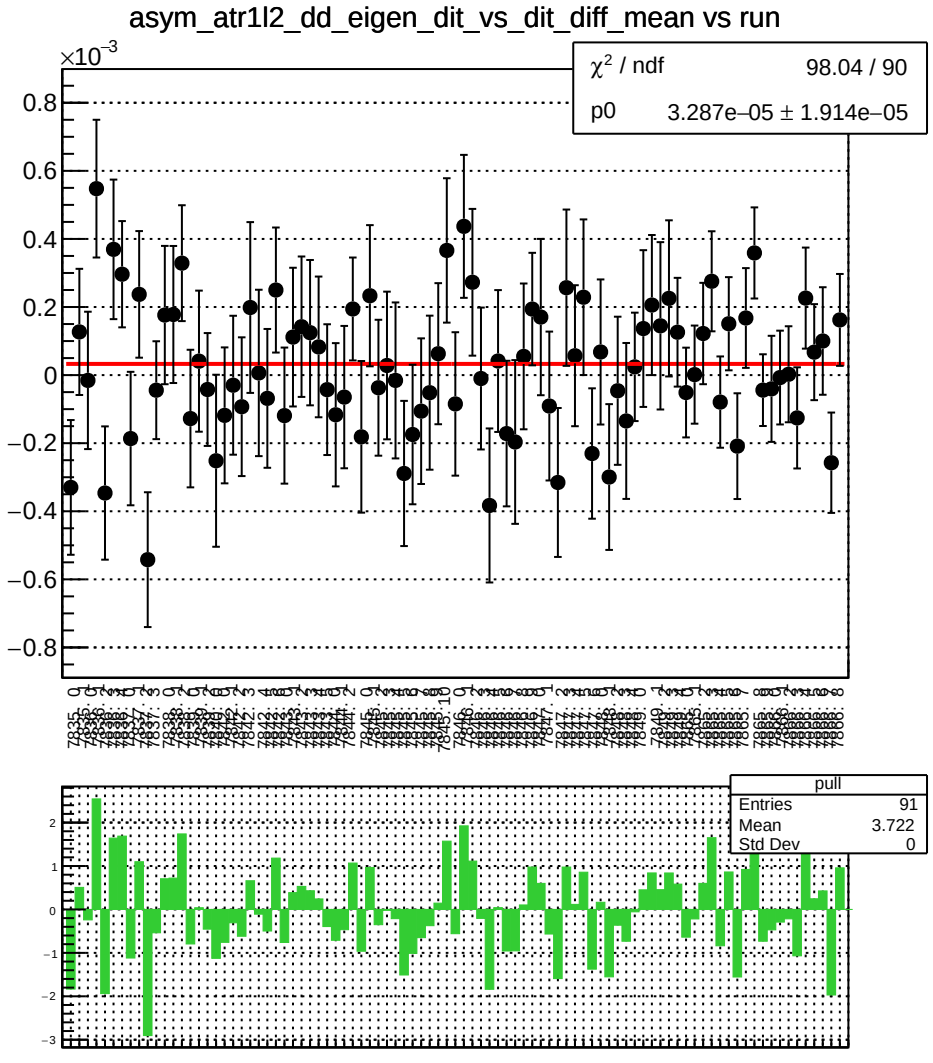

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 0.096 ± 0.1599
pull
Entries 91
Mean 176.8
Std Dev 0
pull1D
Entries 91
Mean 0.05417
Std Dev 1.022

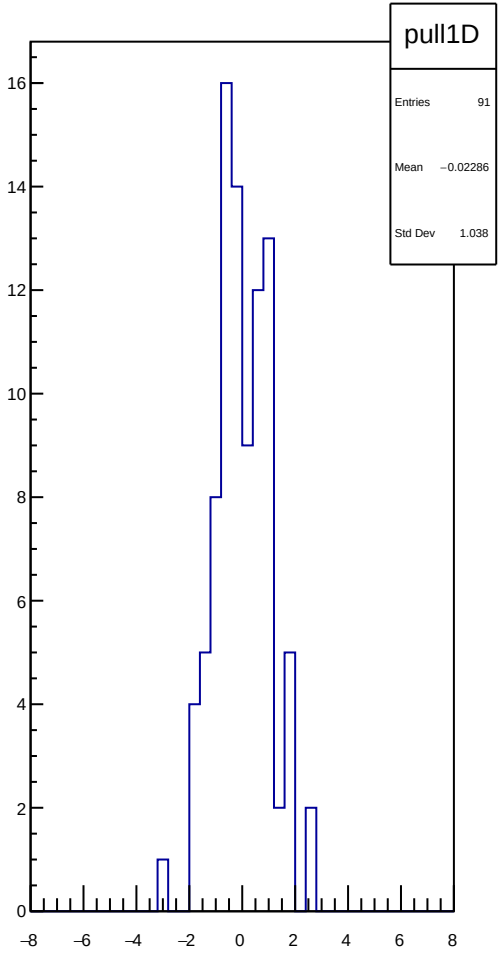

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 90
p0 144.1 ± 0.1131
300
250
200
150
100

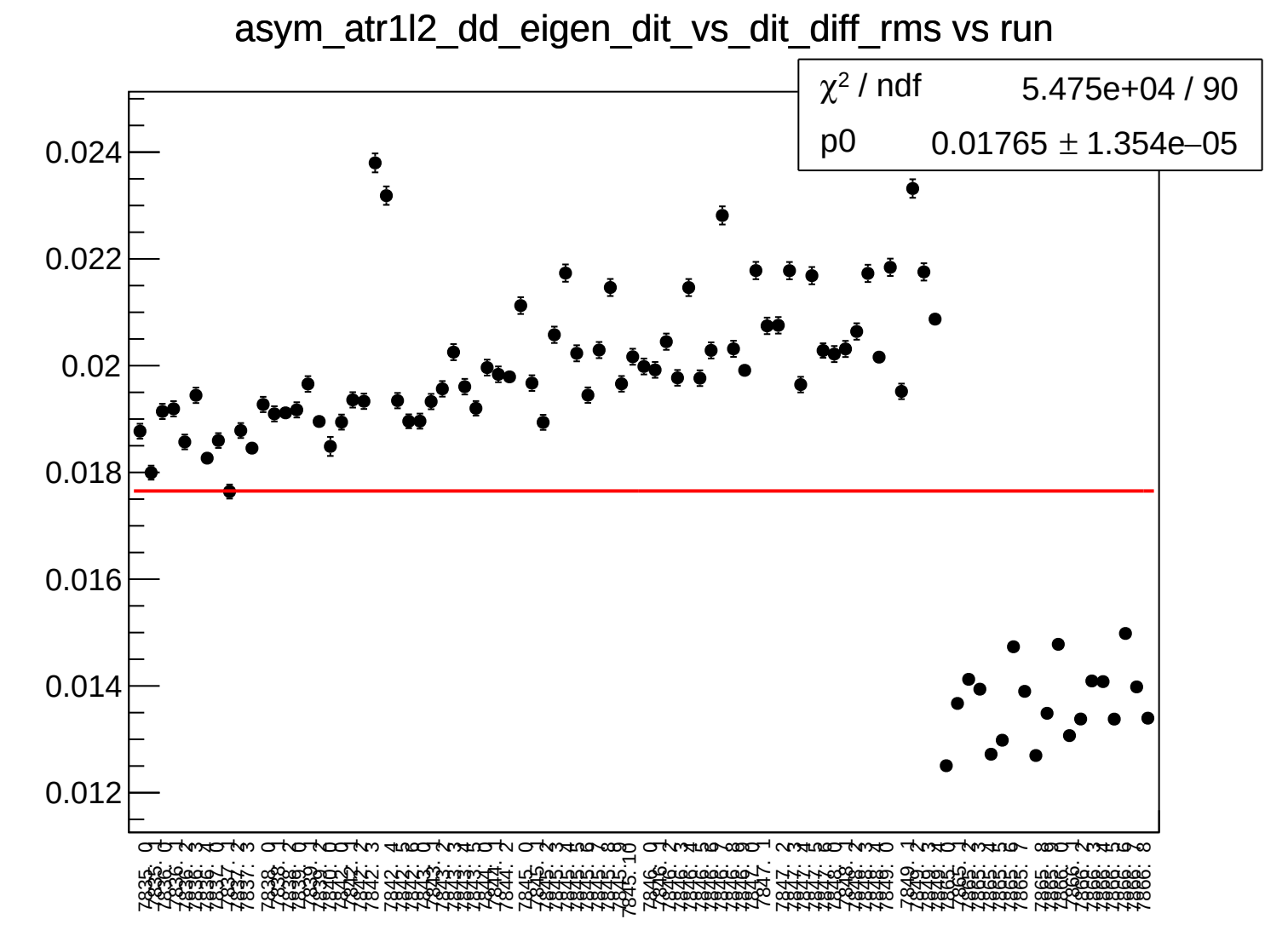

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 0.096 ± 0.1599
pull
Entries 91
Mean 176.8
Std Dev 0

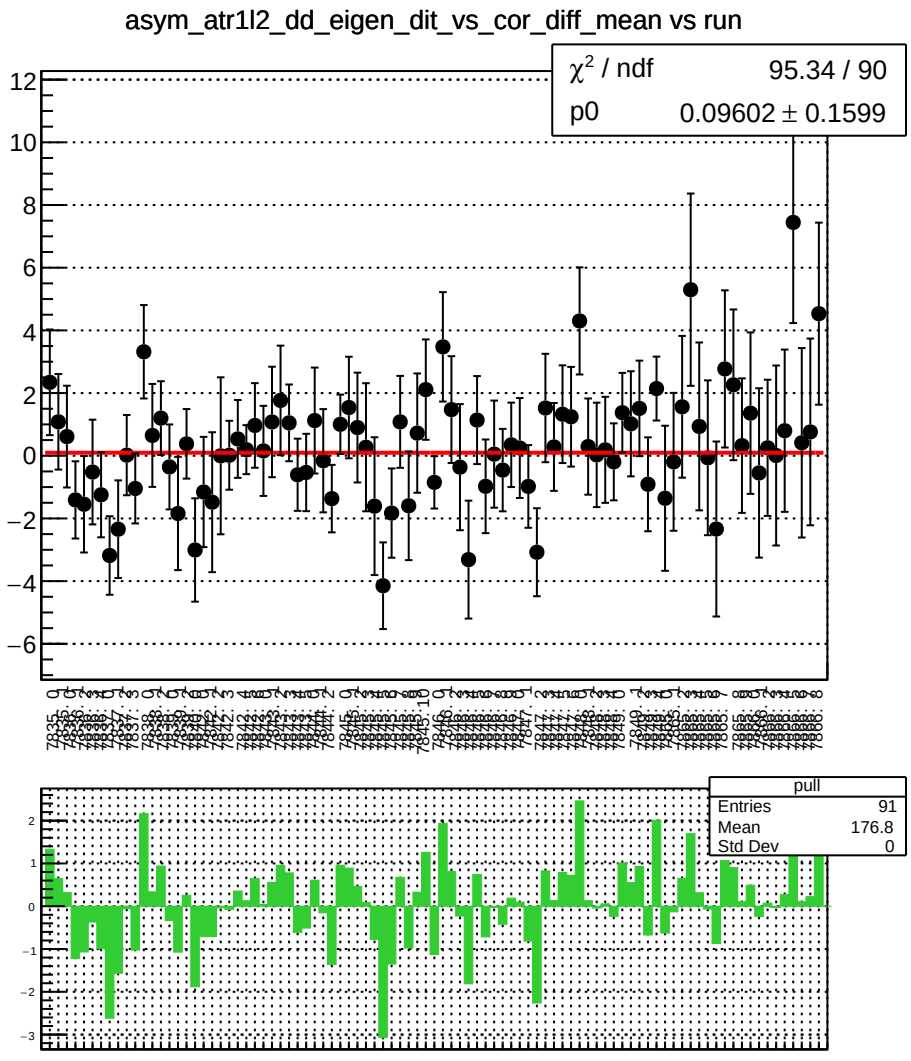

pull1D
Entries 91
Mean 0.05417
Std Dev 1.022

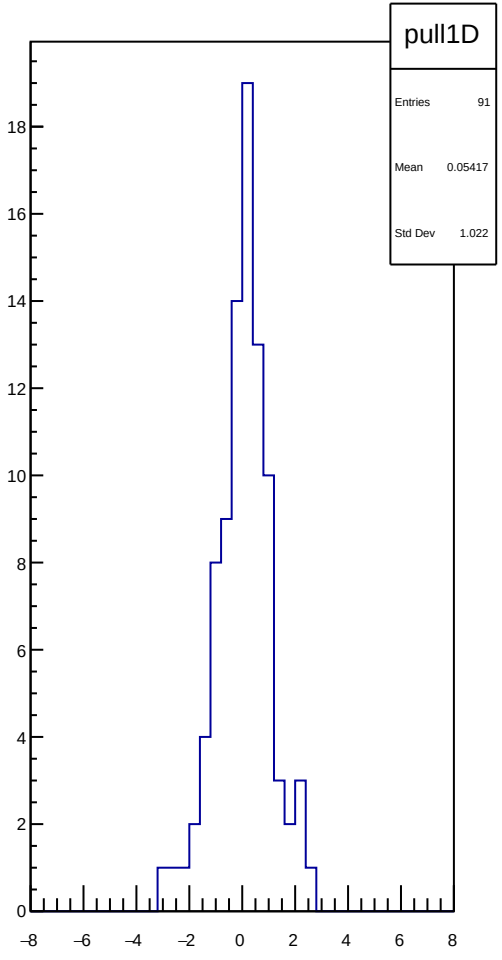

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 90
p0 144.1 ± 0.1131
300
250
200
150
100

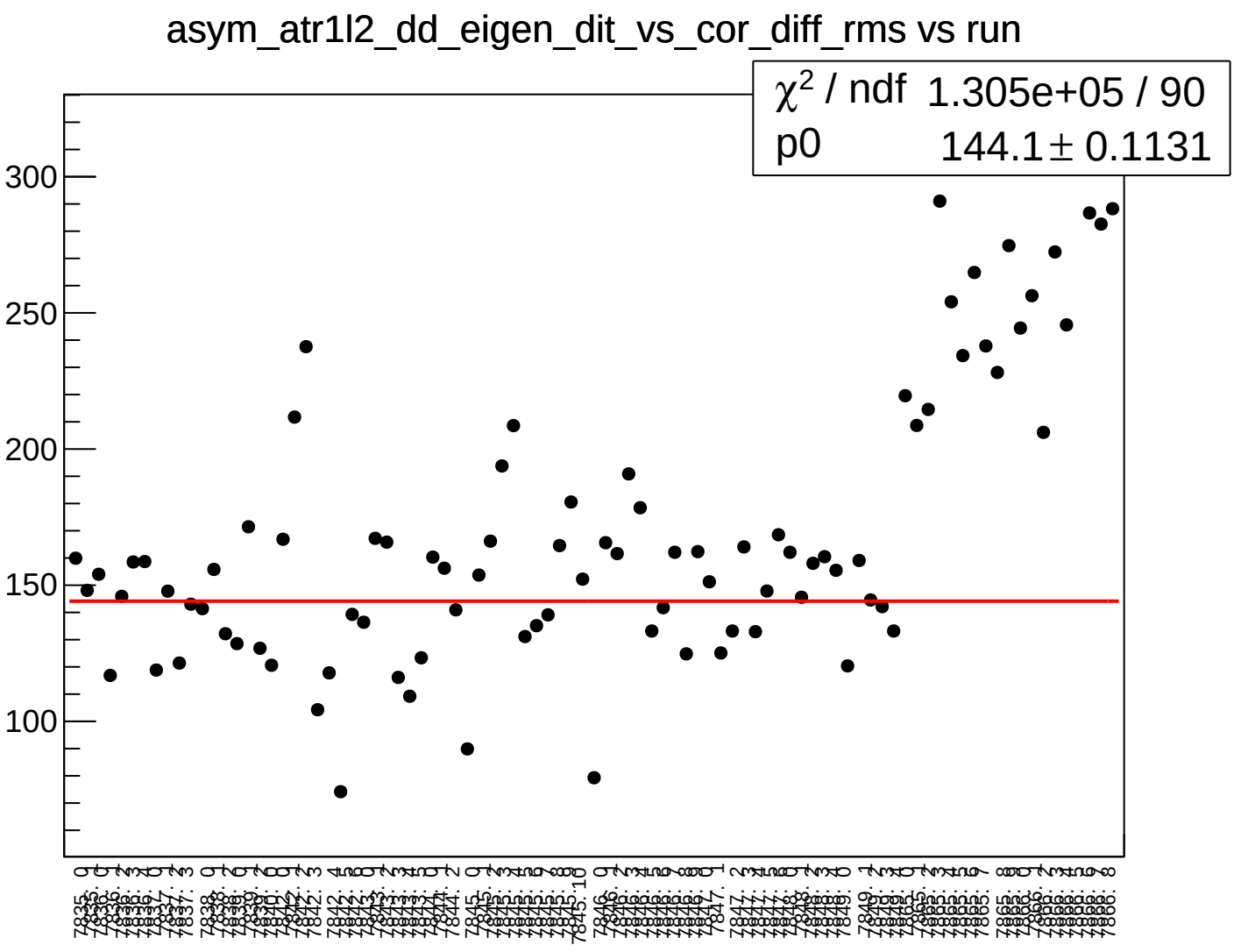

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.04 / 90
p0 3.287e−05 ± 1.914e−05
pull
Entries 91
Mean 3.722
Std Dev 0

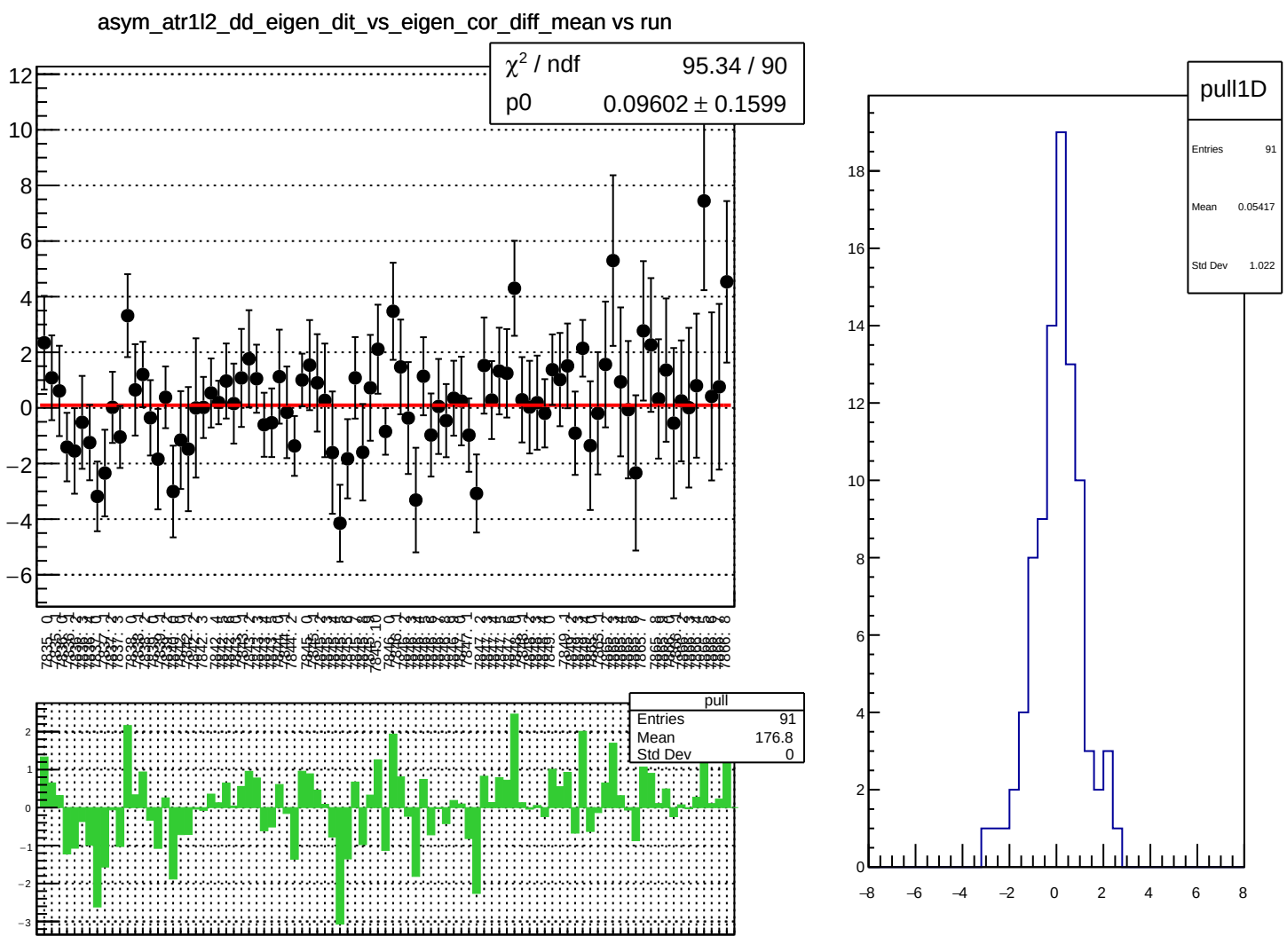

pull1D
Entries 91
Mean −0.02286
Std Dev 1.038

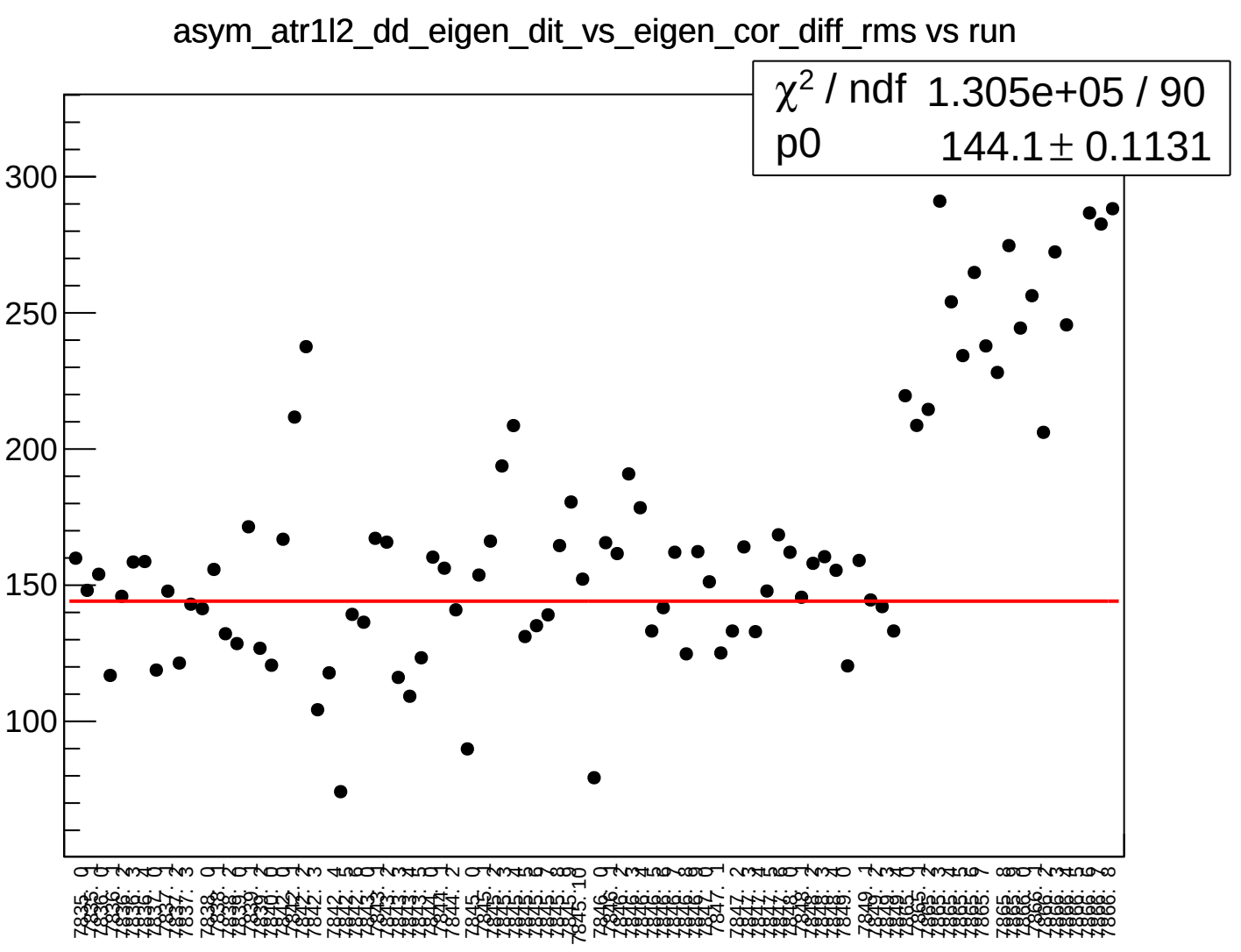

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.475e+04 / 90
p0 0.01765 ± 1.354e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

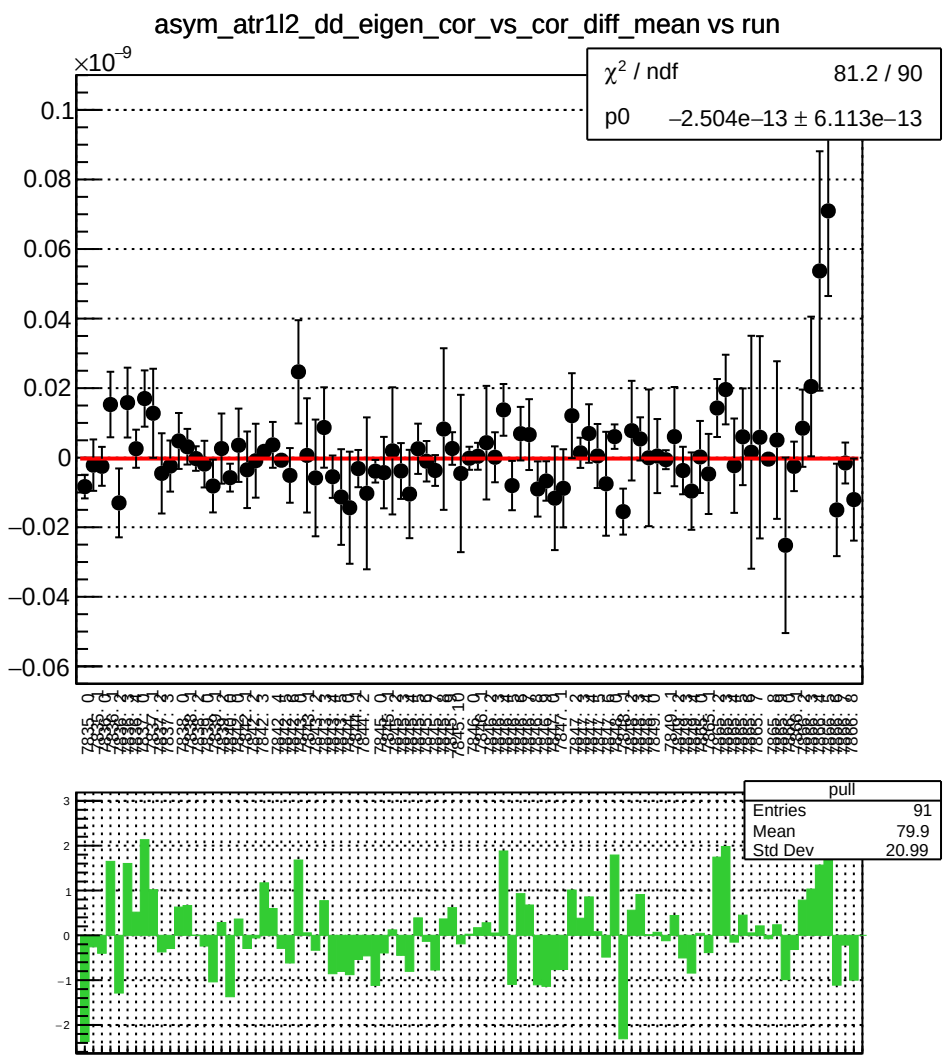

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 0.09602 ± 0.1599
pull
Entries 91
Mean 176.8
Std Dev 0

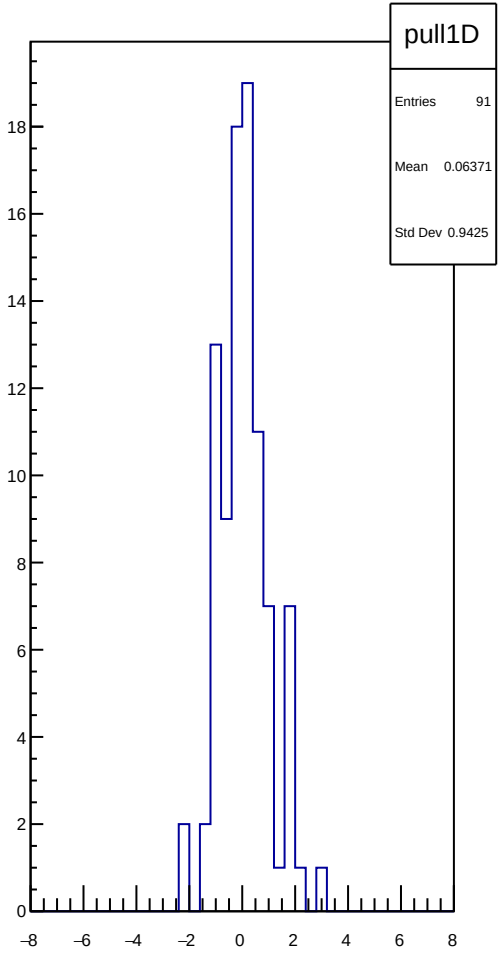

pull1D
Entries 91
Mean 0.05417
Std Dev 1.022

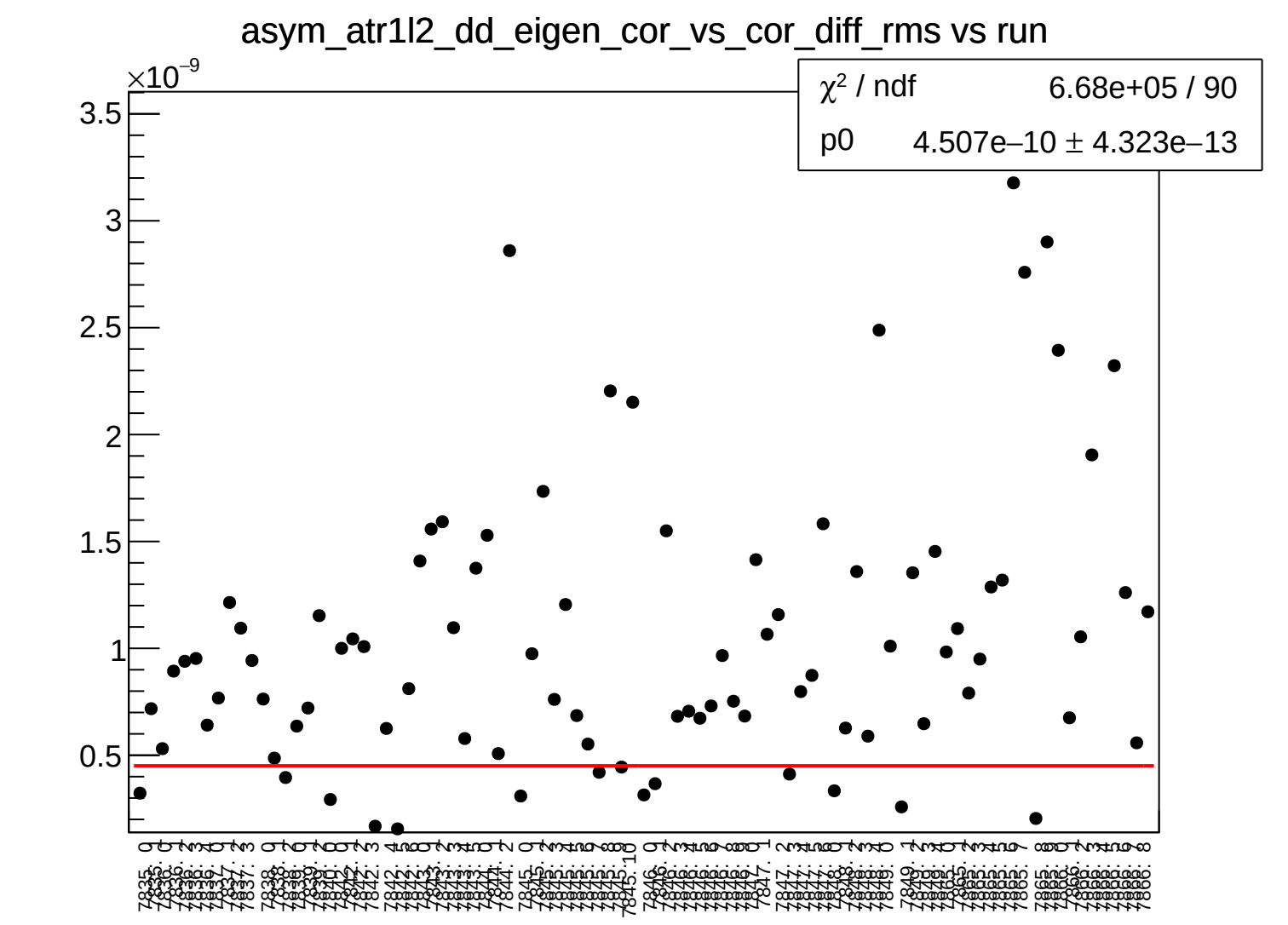

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 90
p0 144.1 ± 0.1131
300
250
200
150
100

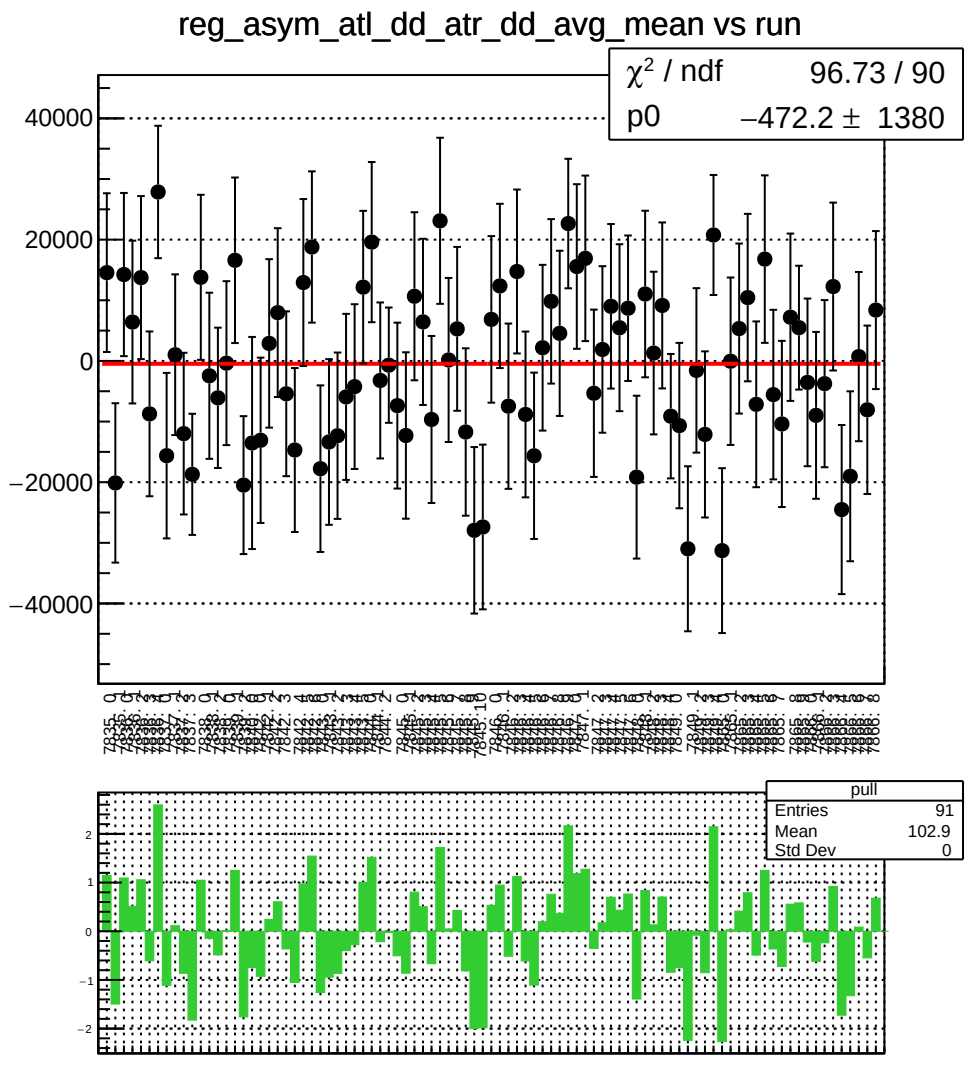

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 0.09602 ± 0.1599
pull
Entries 91
Mean 176.8
Std Dev 0
pull1D
Entries 91
Mean 0.05417
Std Dev 1.022

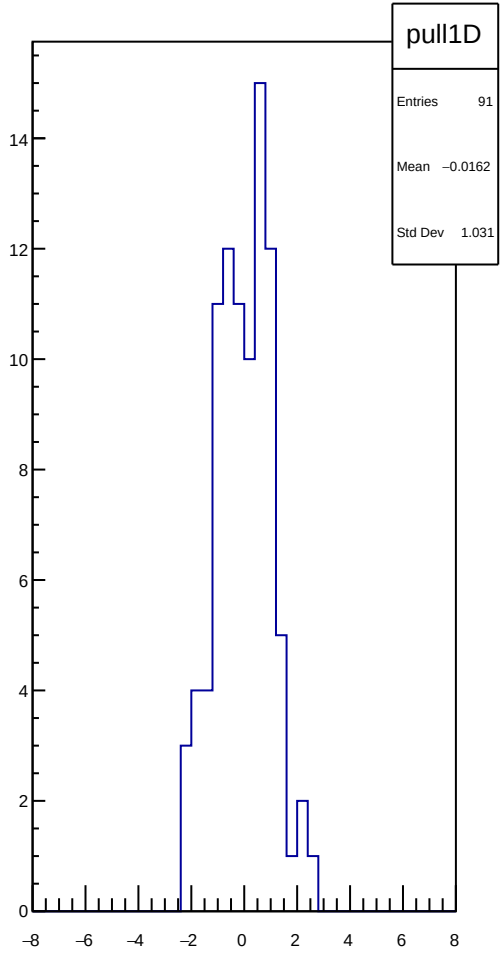

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 90
p0 144.1 ± 0.1131
300
250
200
150
100

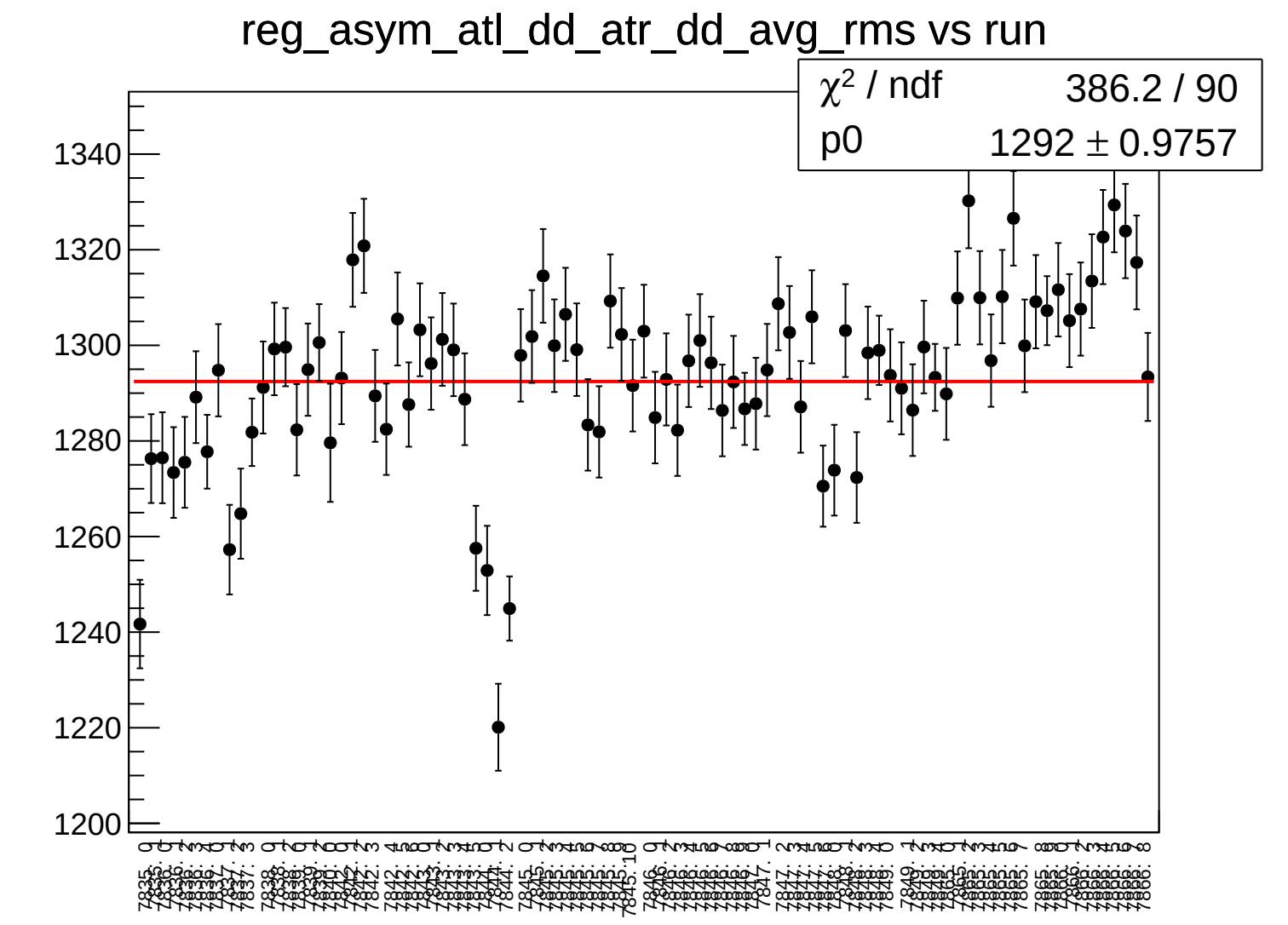

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 81.2 / 90
p0 −2.504e−13 ± 6.113e−13
pull
Entries 91
Mean 79.9
Std Dev 20.99

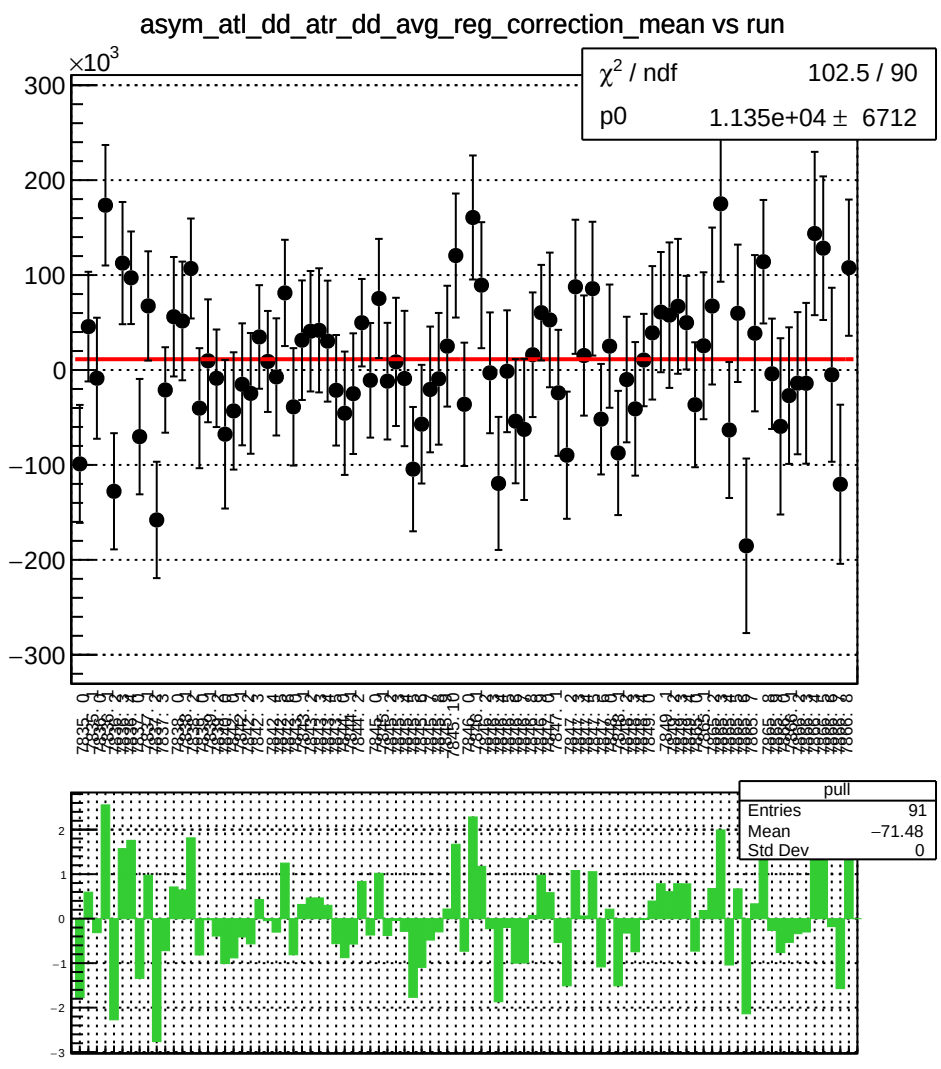

pull1D
Entries 91
Mean 0.06371
Std Dev 0.9425

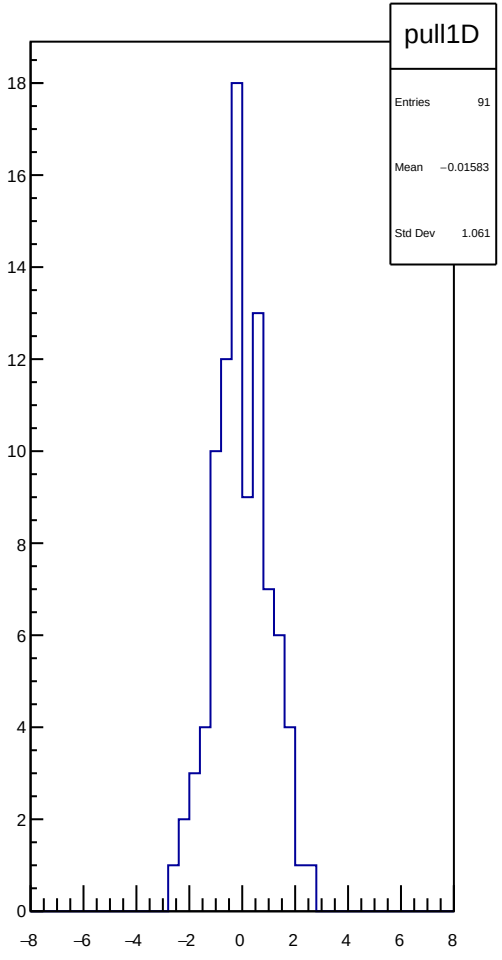

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.68e+05 / 90
p0 4.507e−10 ± 4.323e−13
3.5
3
2.5
2
1.5
1
0.5

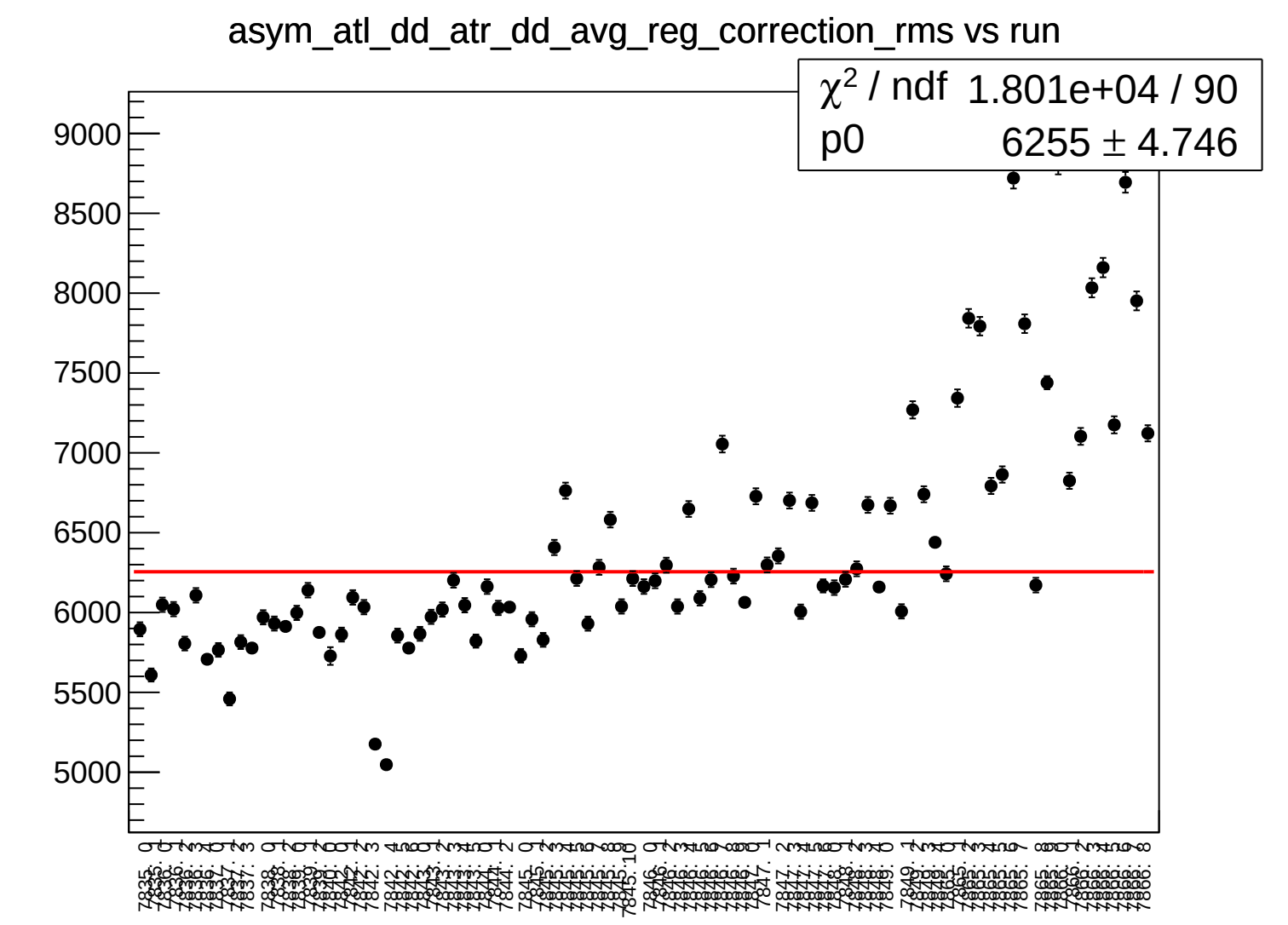

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.73 / 90
p0 −472.2 ± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

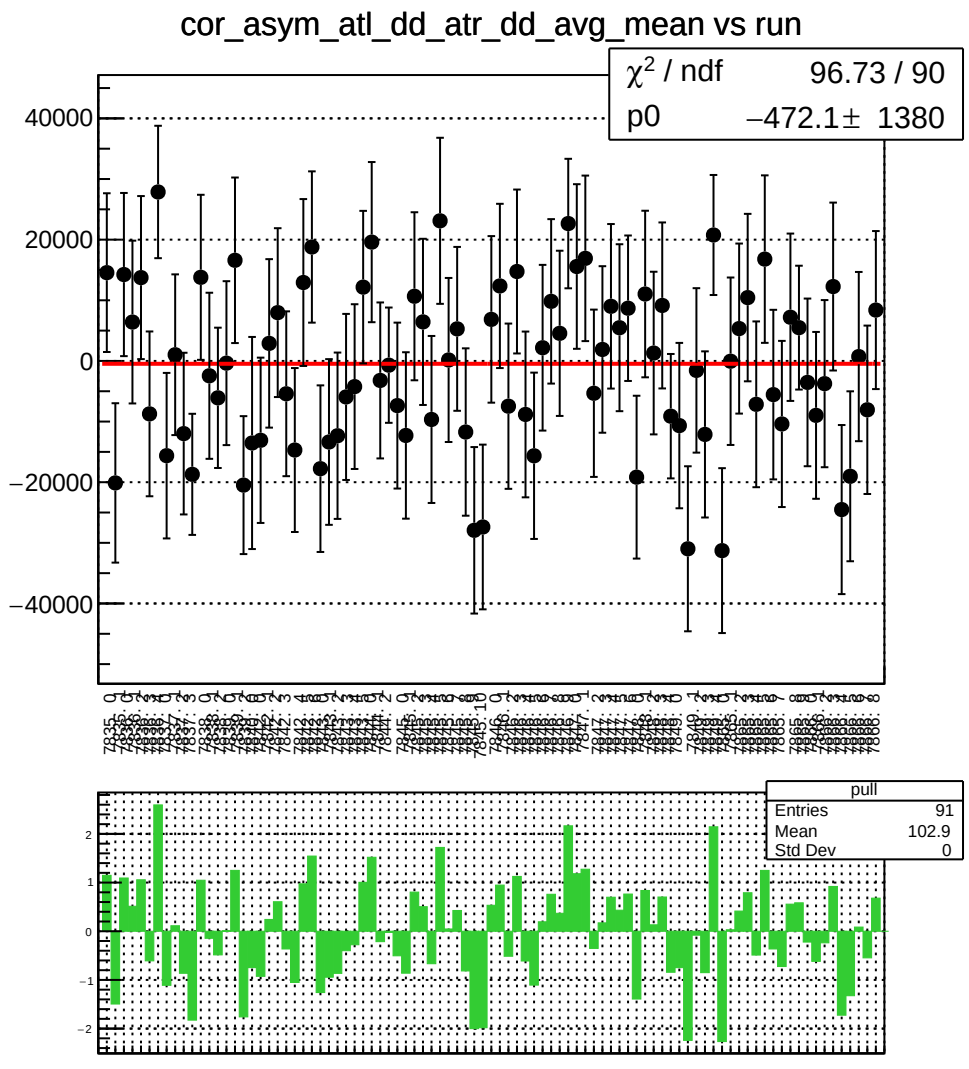

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

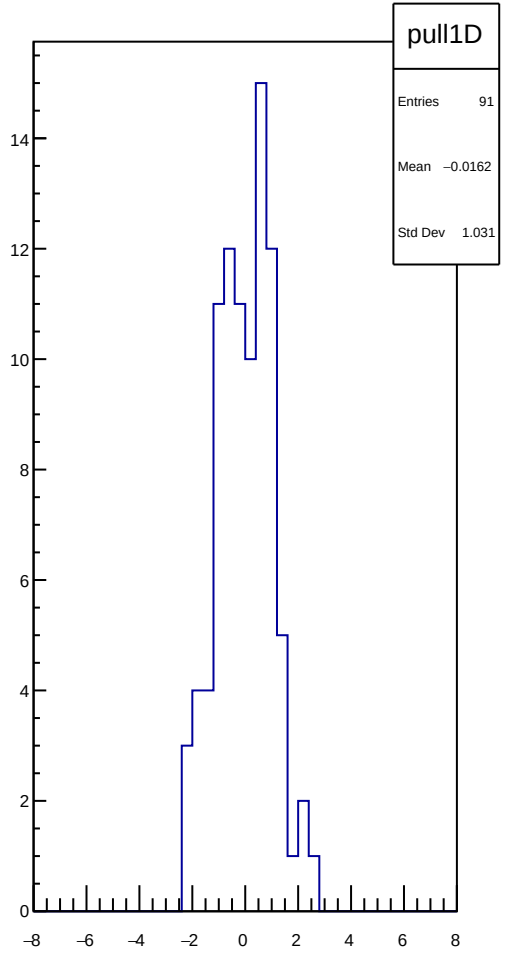

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

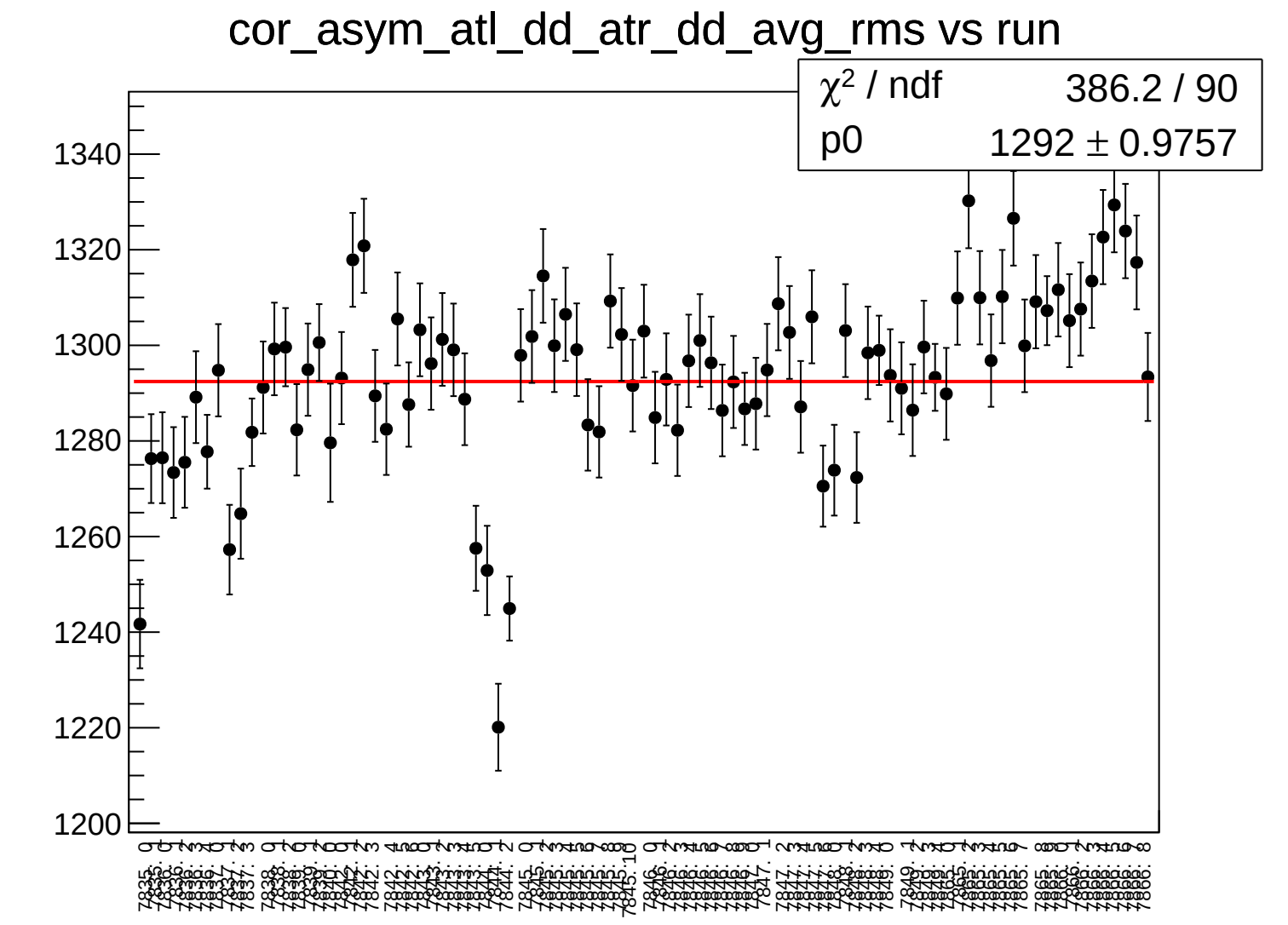

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.48
Std Dev 0

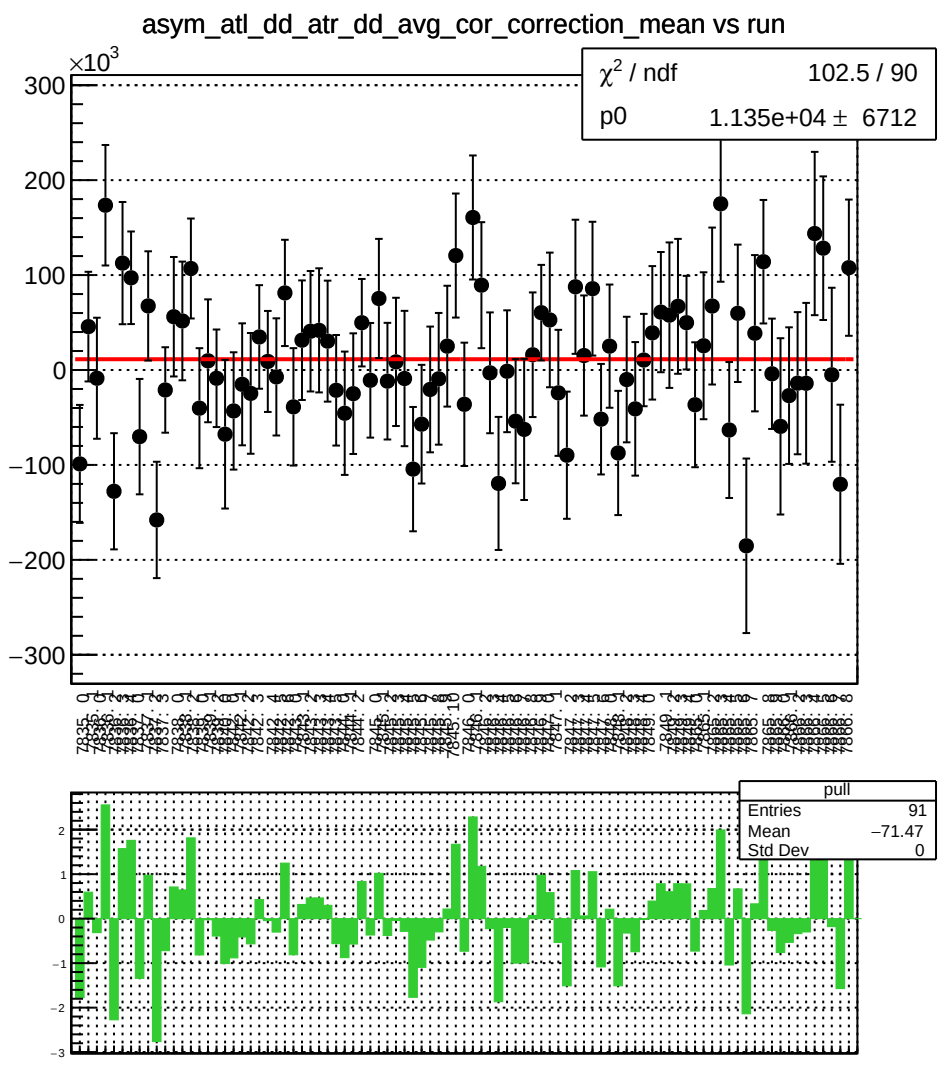

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

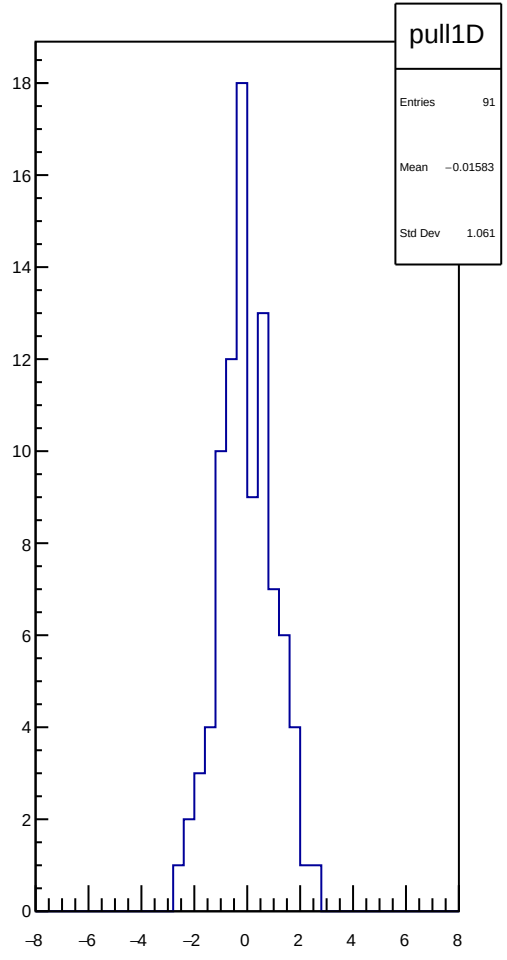

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

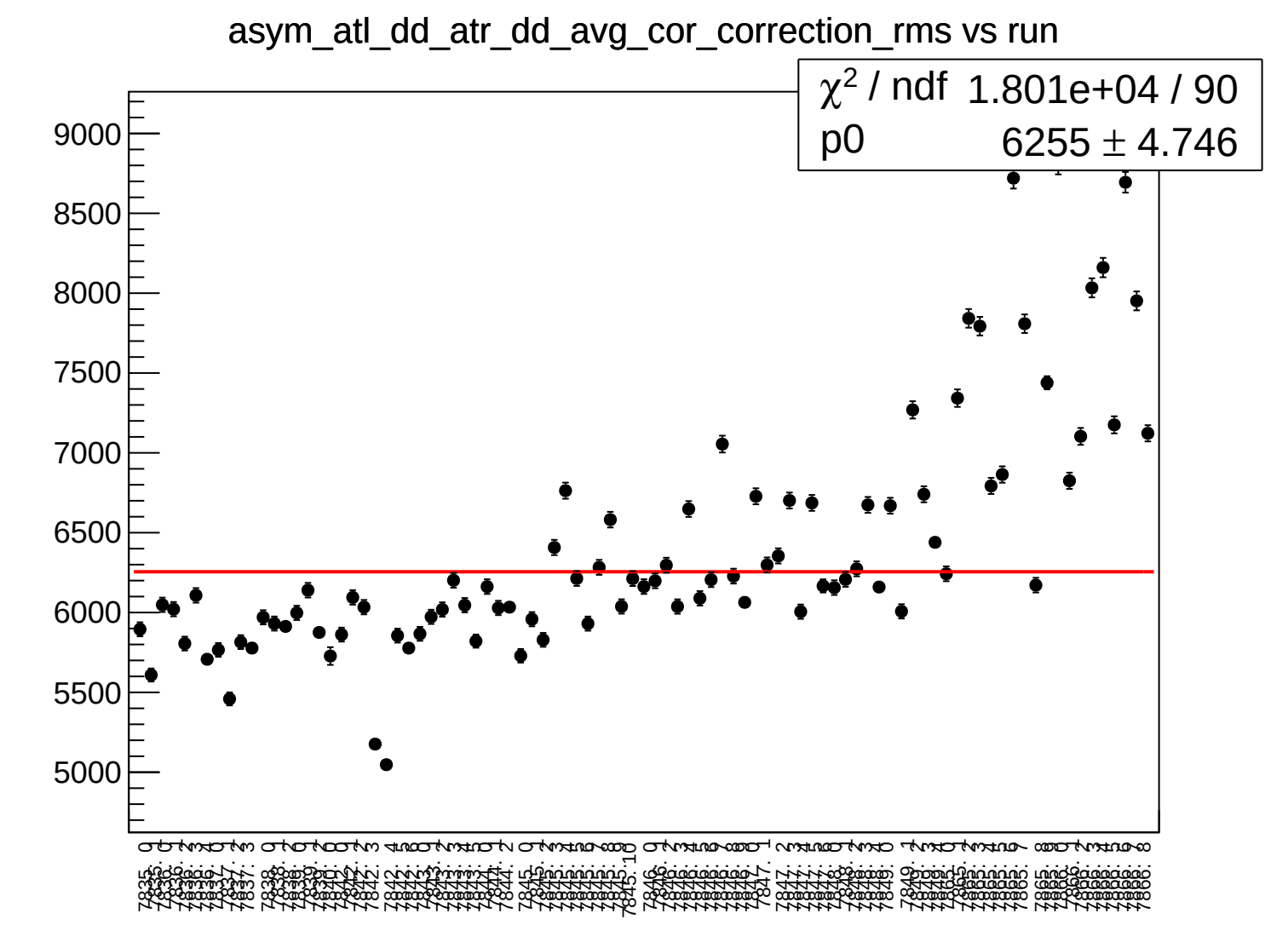

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.73 / 90
p0 −472.1± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

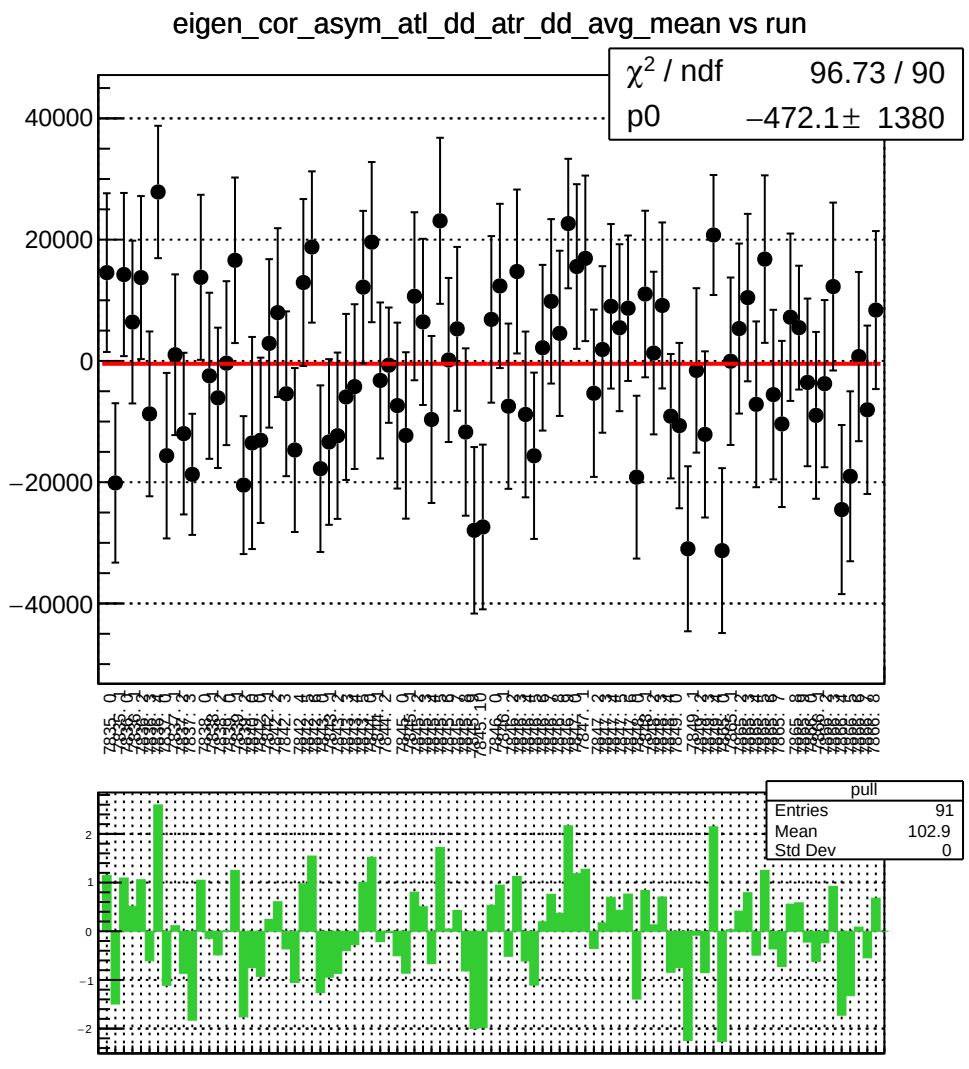

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

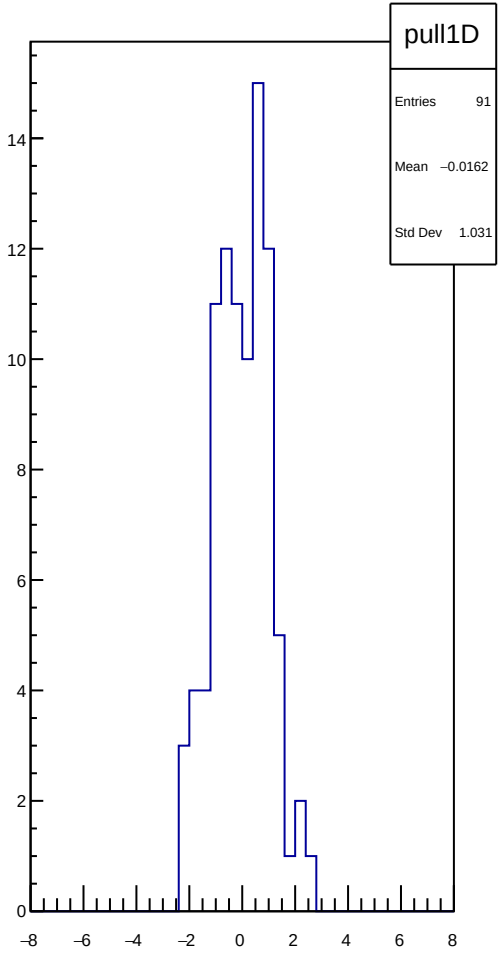

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

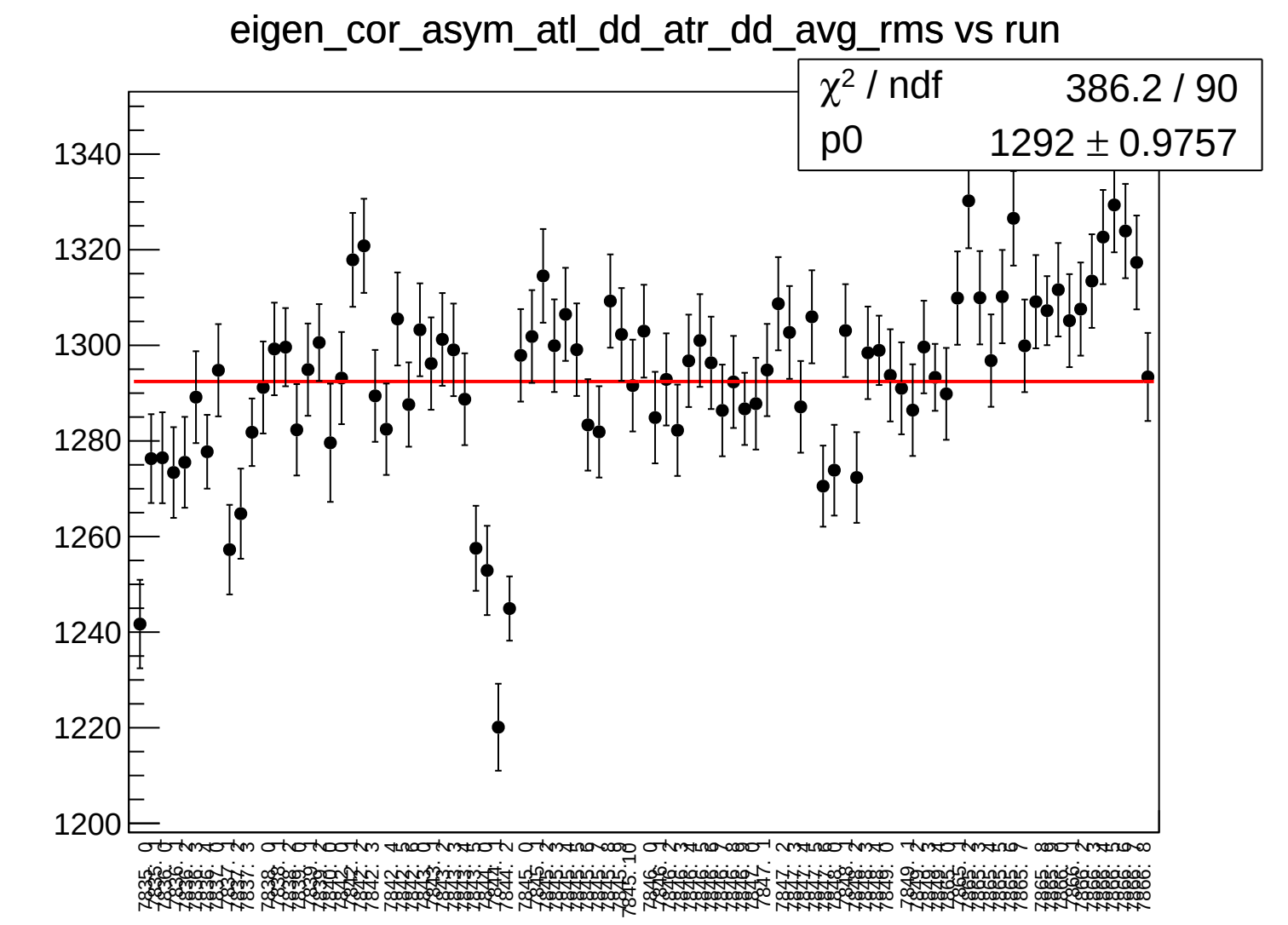

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.47
Std Dev 0

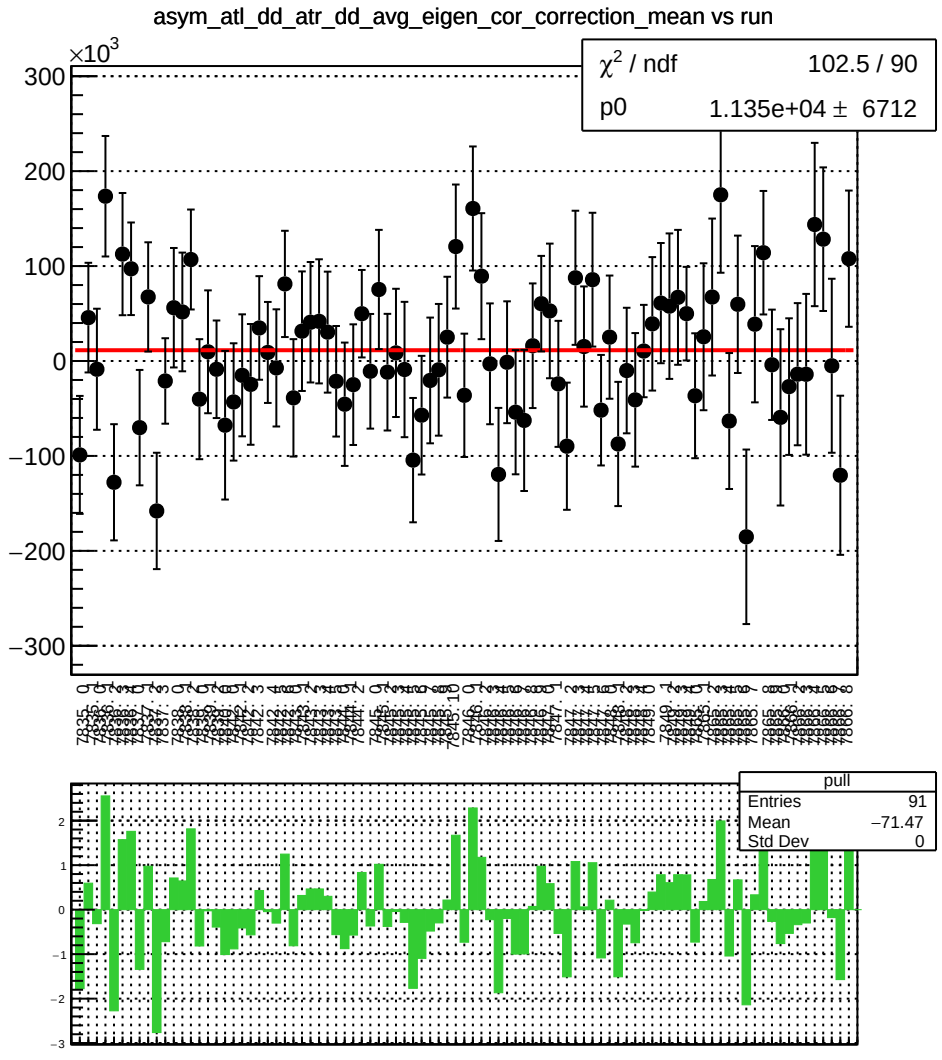

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

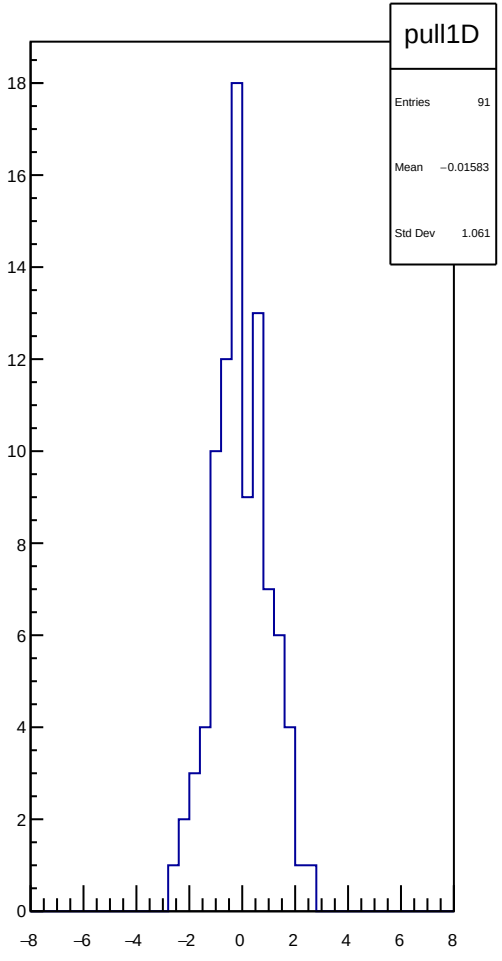

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

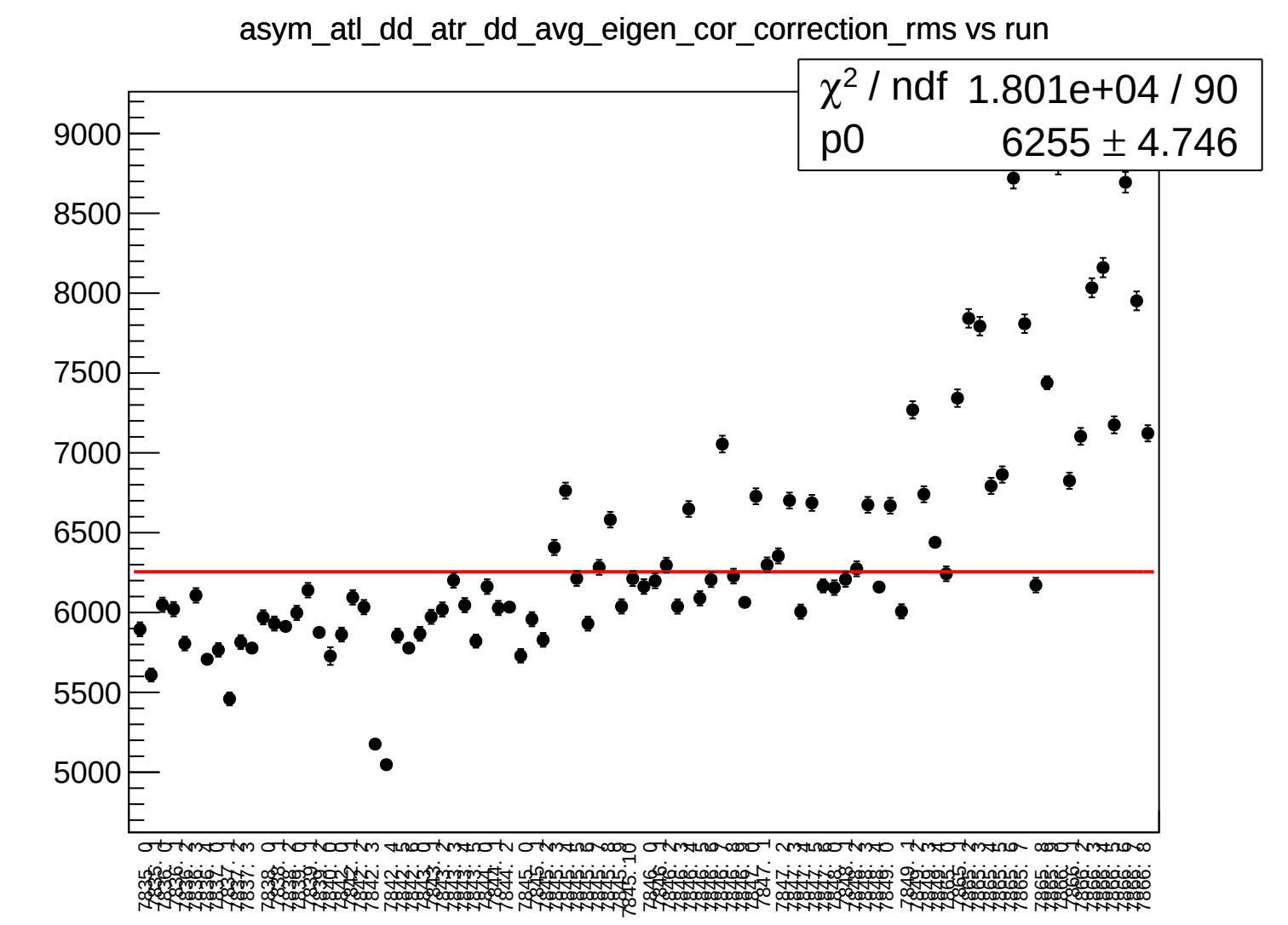

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.73 / 90
p0 −472.1± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

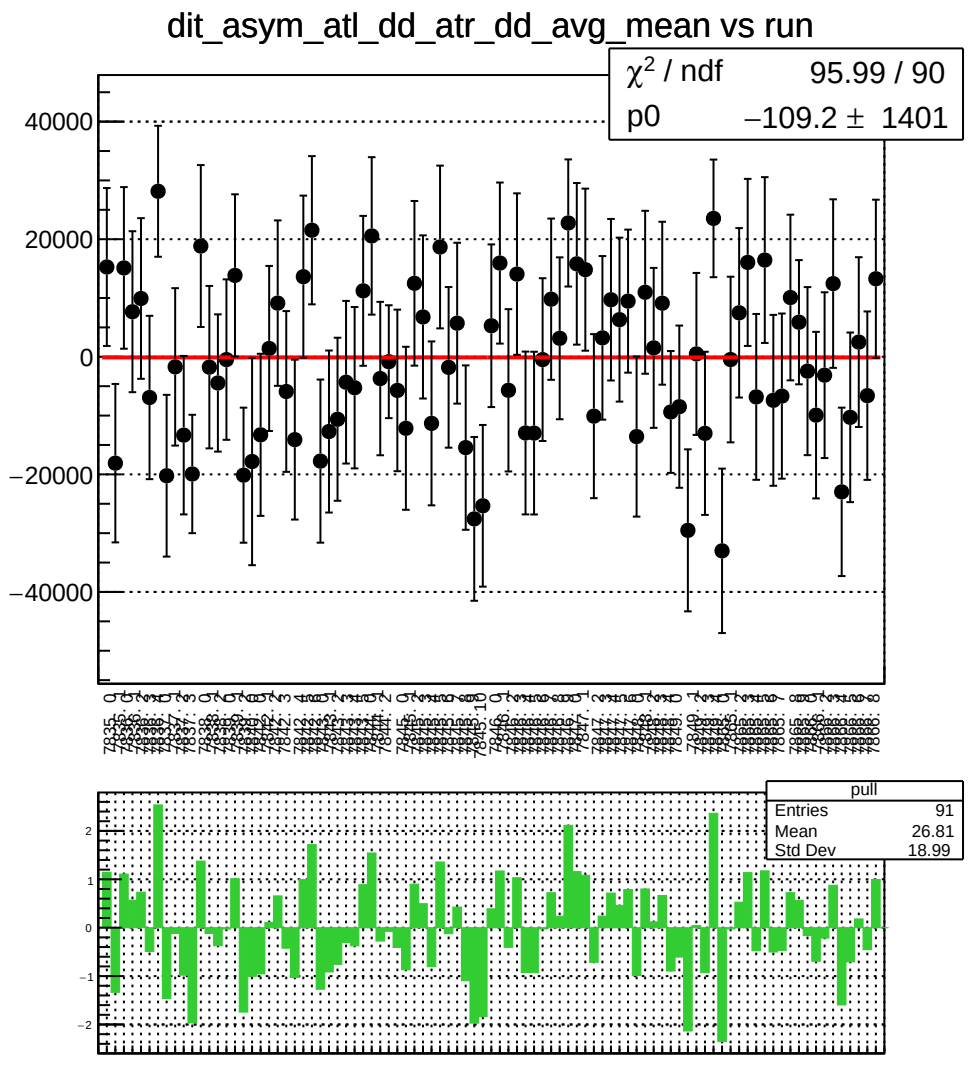

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

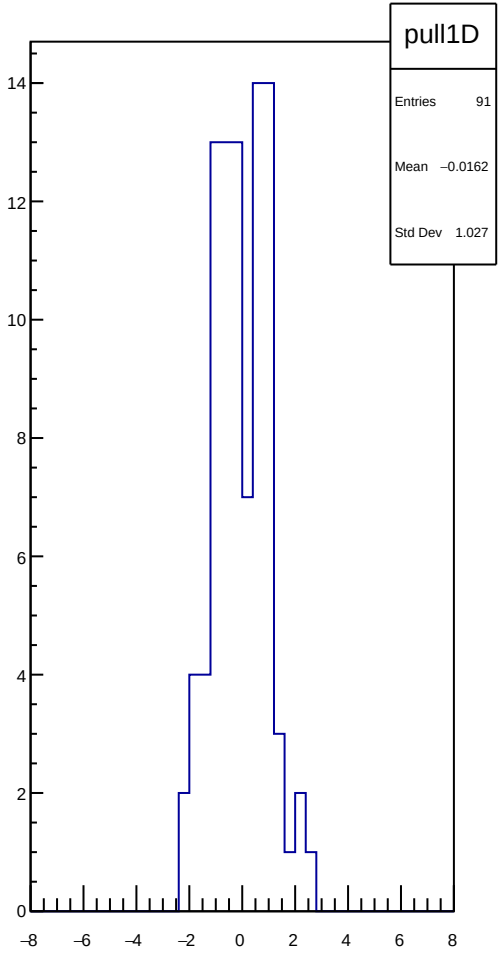

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

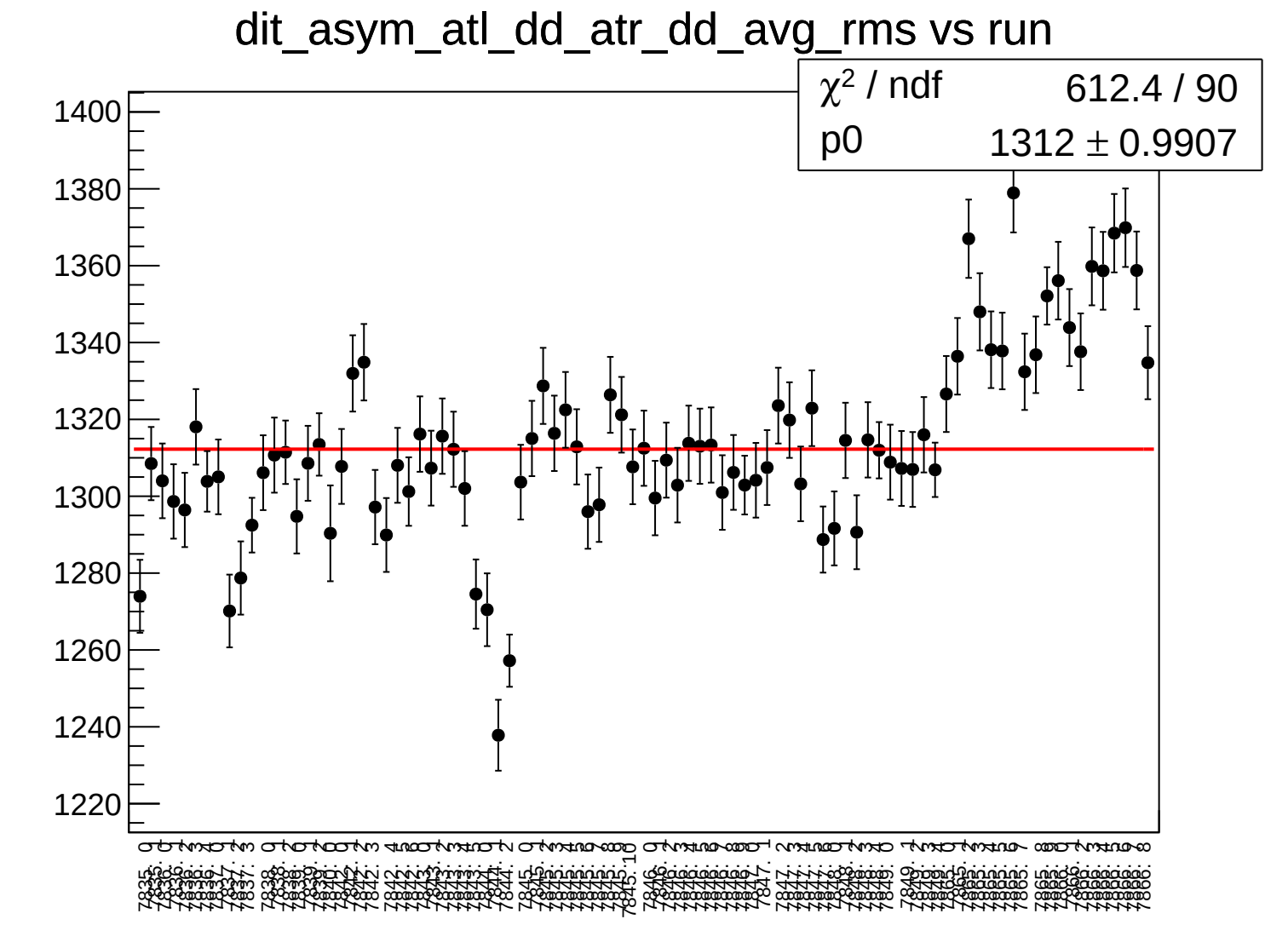

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.47
Std Dev 0

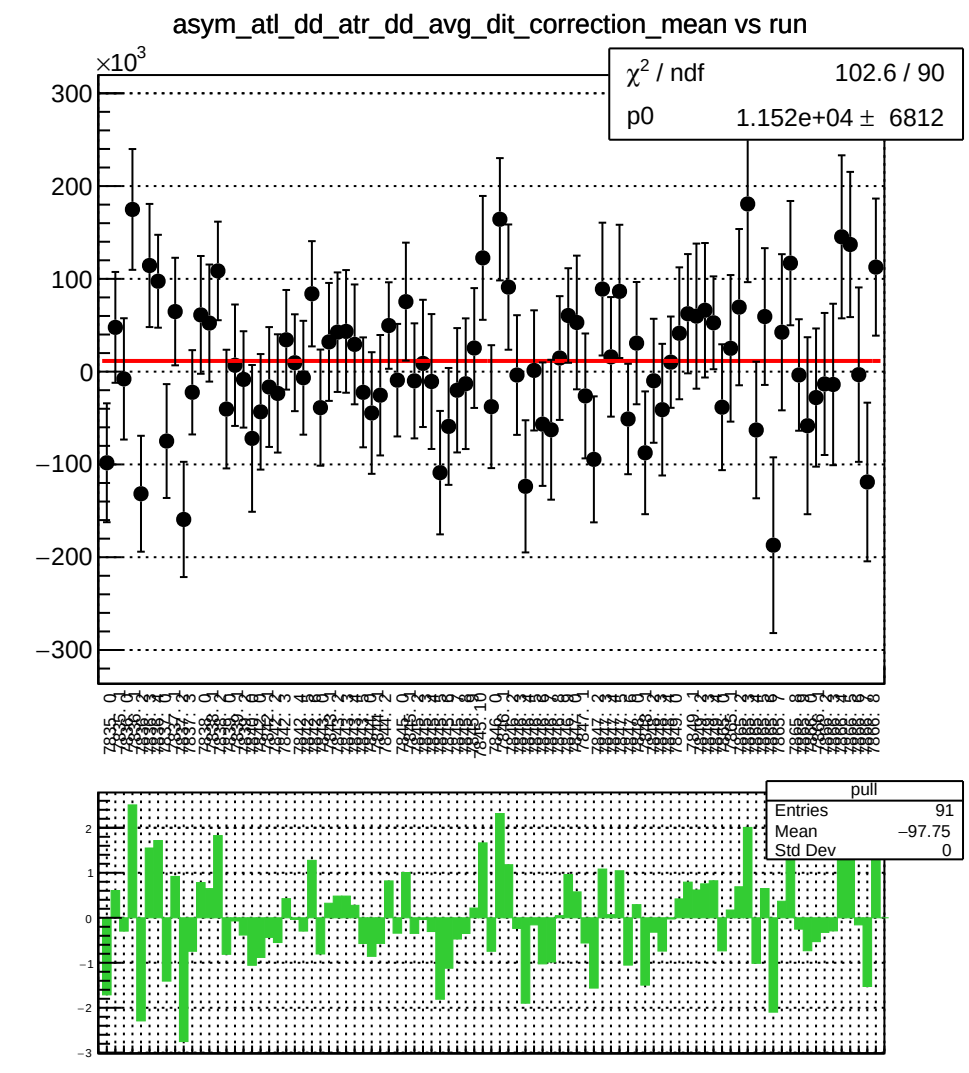

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

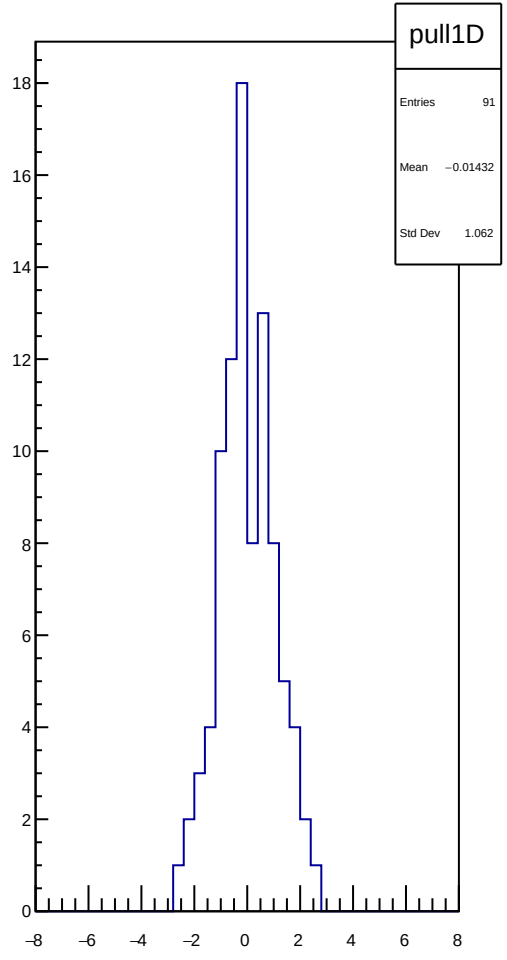

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

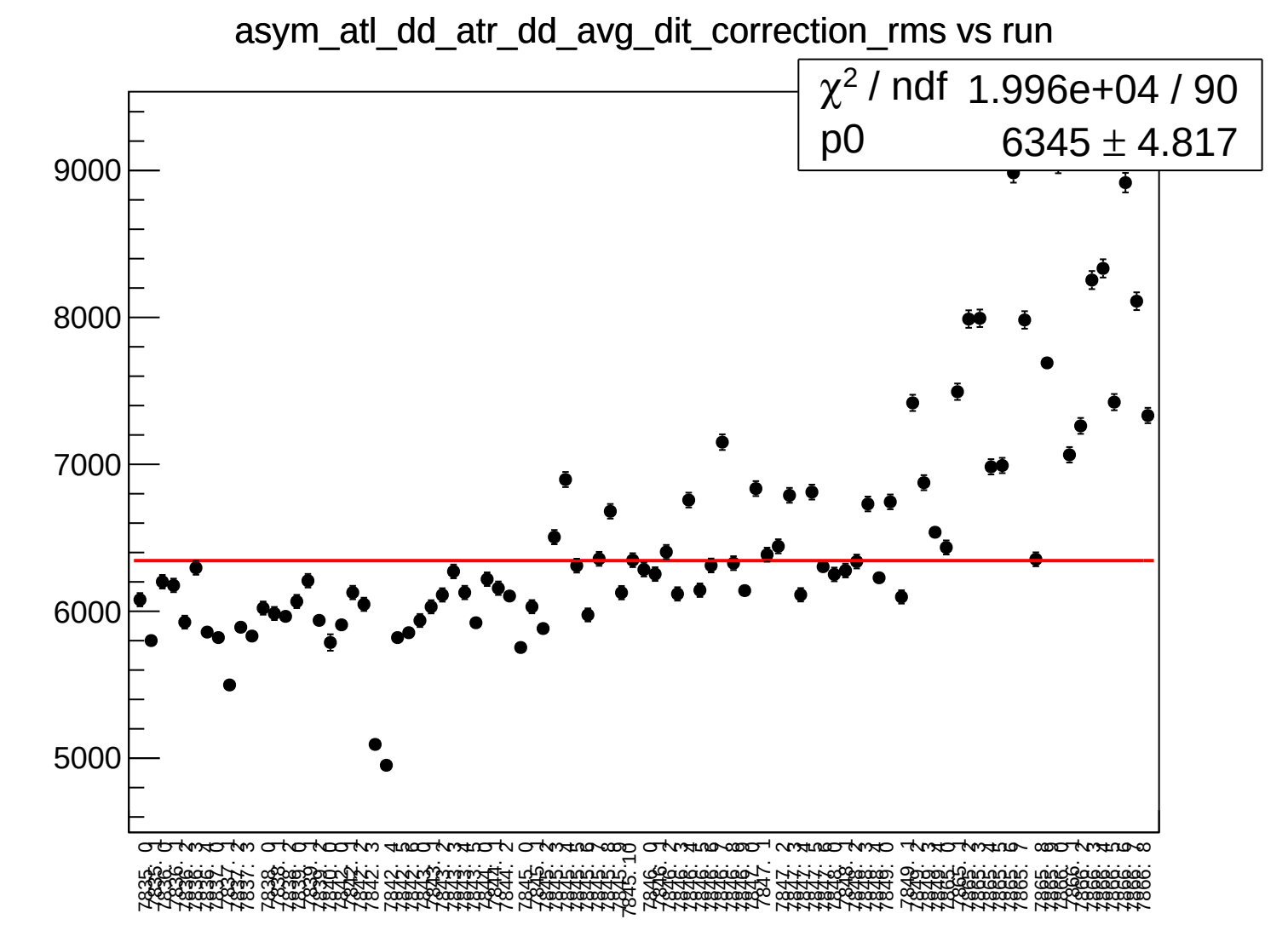

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 95.99 / 90
p0 −109.2 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 26.81
Std Dev 18.99
2
1
0
−1
−2

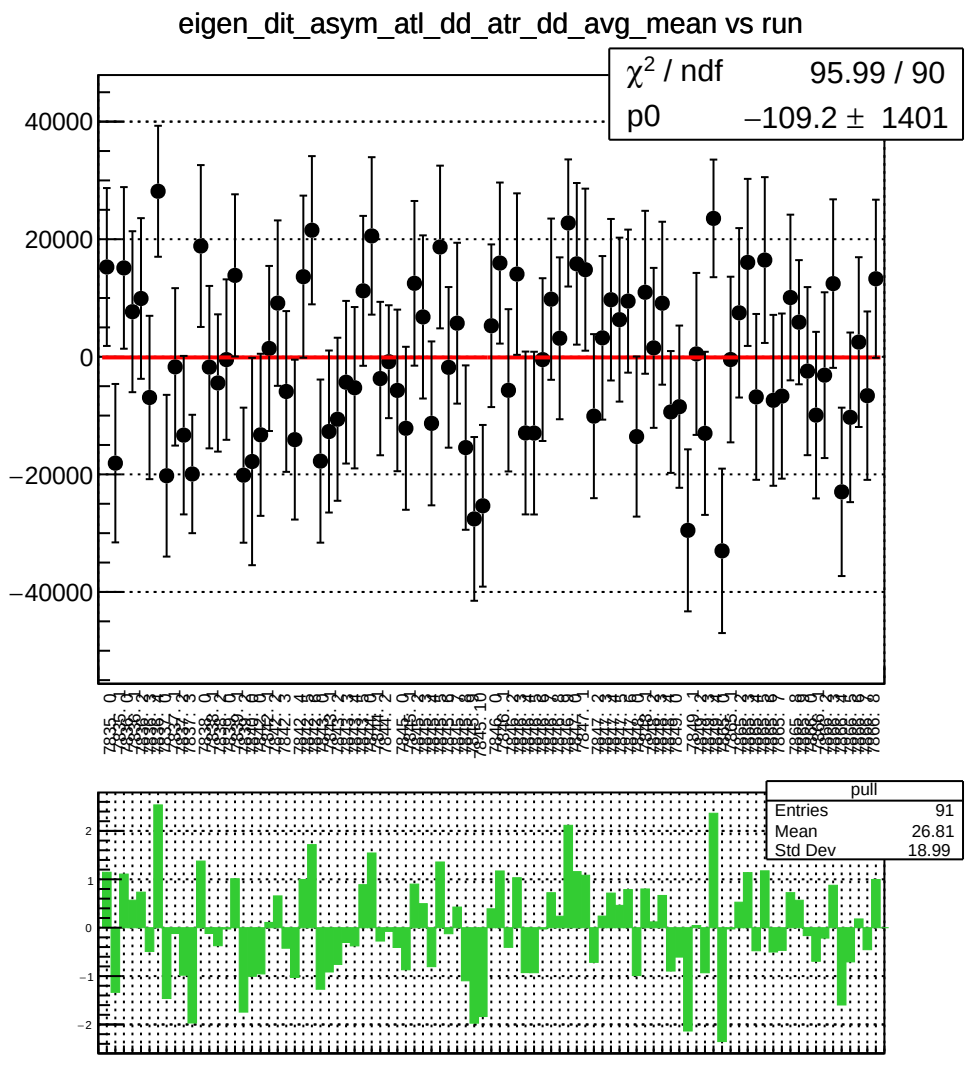

pull1D
Entries 91
Mean −0.0162
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

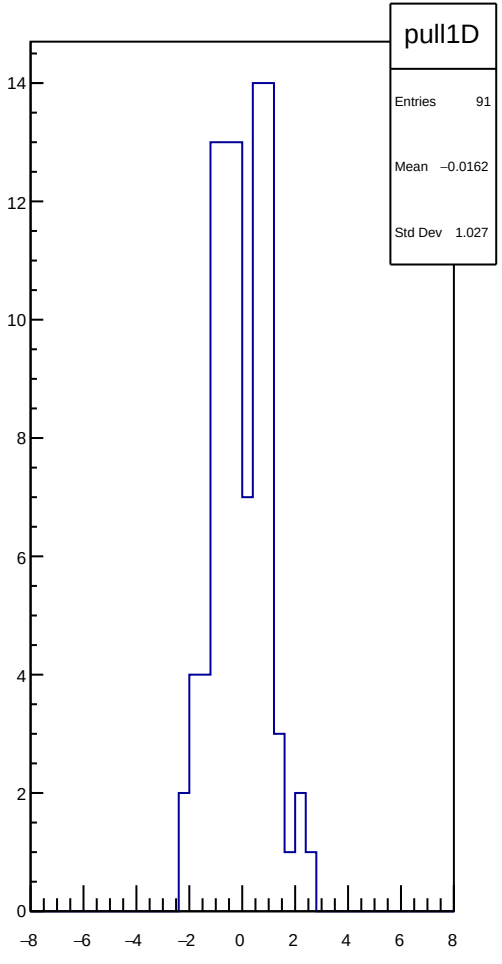

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 612.4 / 90
p0 1312 ± 0.9907
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

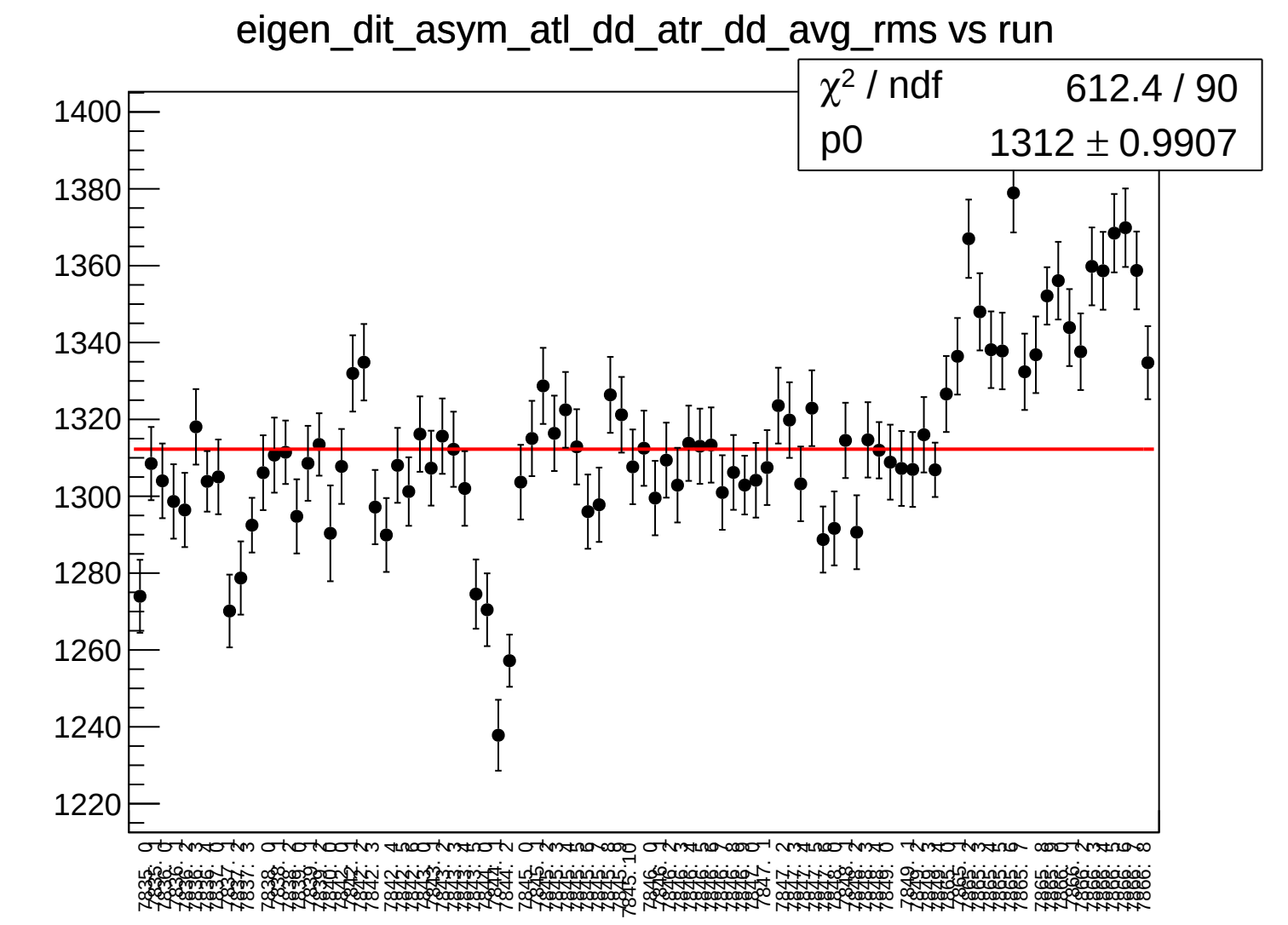

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 102.6 / 90
p0 1.152e+04 ± 6812
pull
Entries 91
Mean −97.75
Std Dev 0

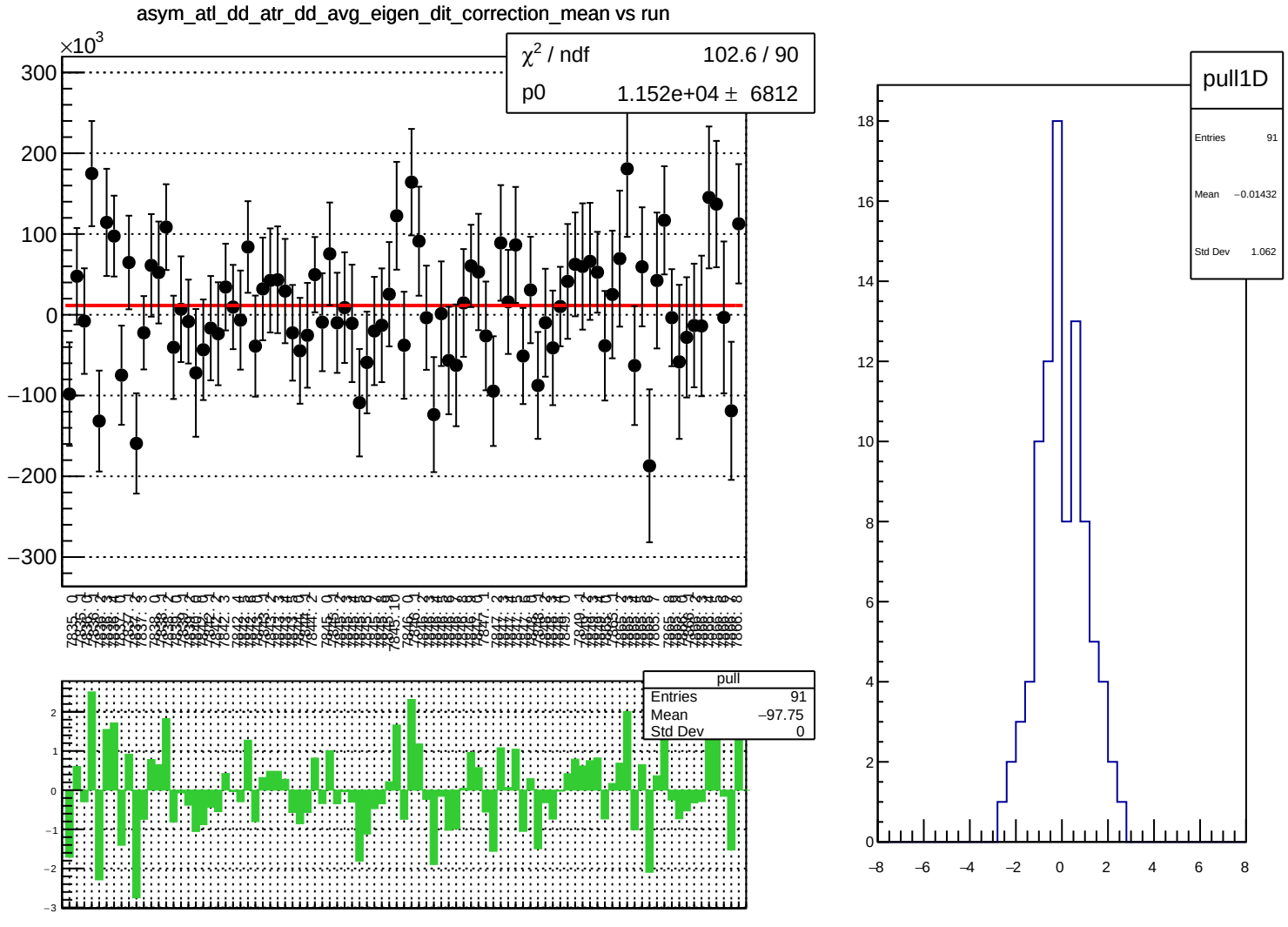

pull1D
Entries 91
Mean −0.01432
Std Dev 1.062

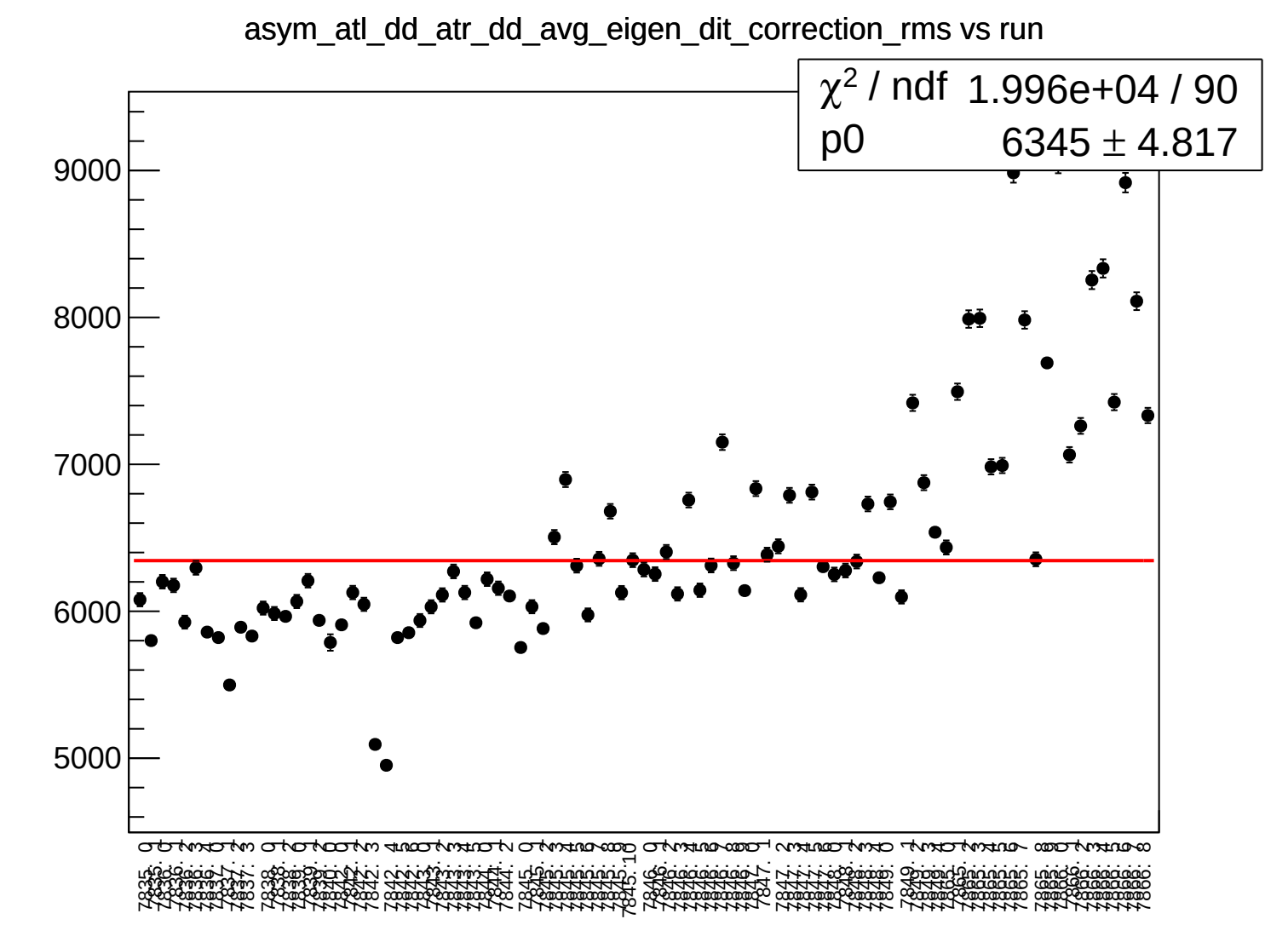

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 1.996e+04 / 90
p0 6345 ± 4.817
9000
8000
7000
6000
5000

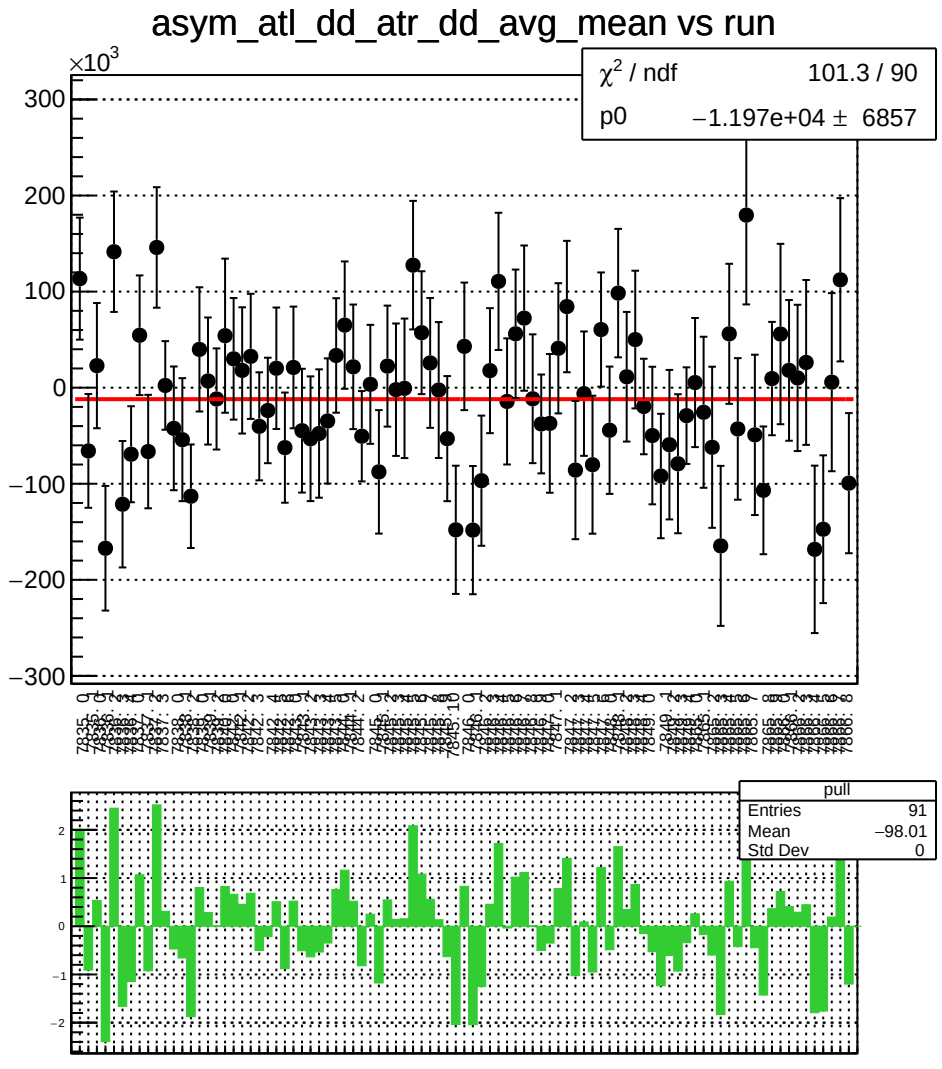

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ^2 / ndf 95.99 / 90
p0 −109.2 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 26.81
Std Dev 18.99
2
1
0
−1
−2

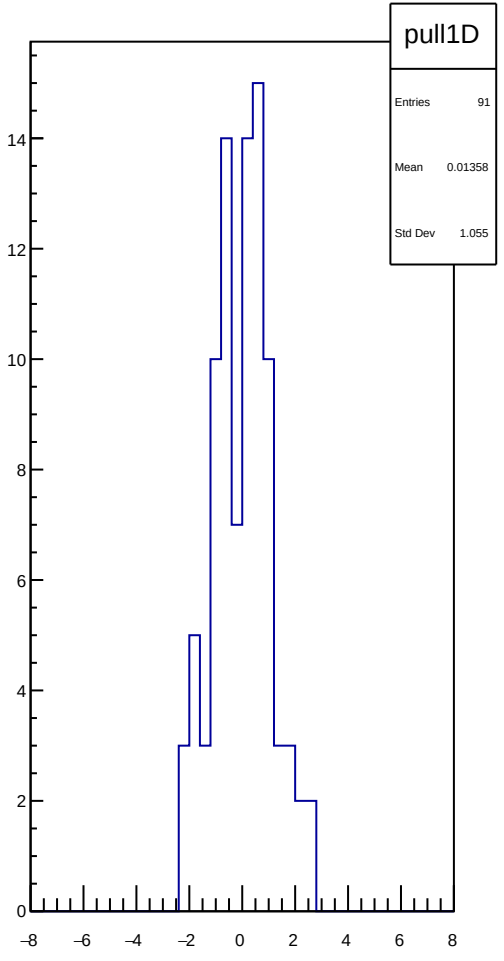

pull1D
Entries 91
Mean −0.0162
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

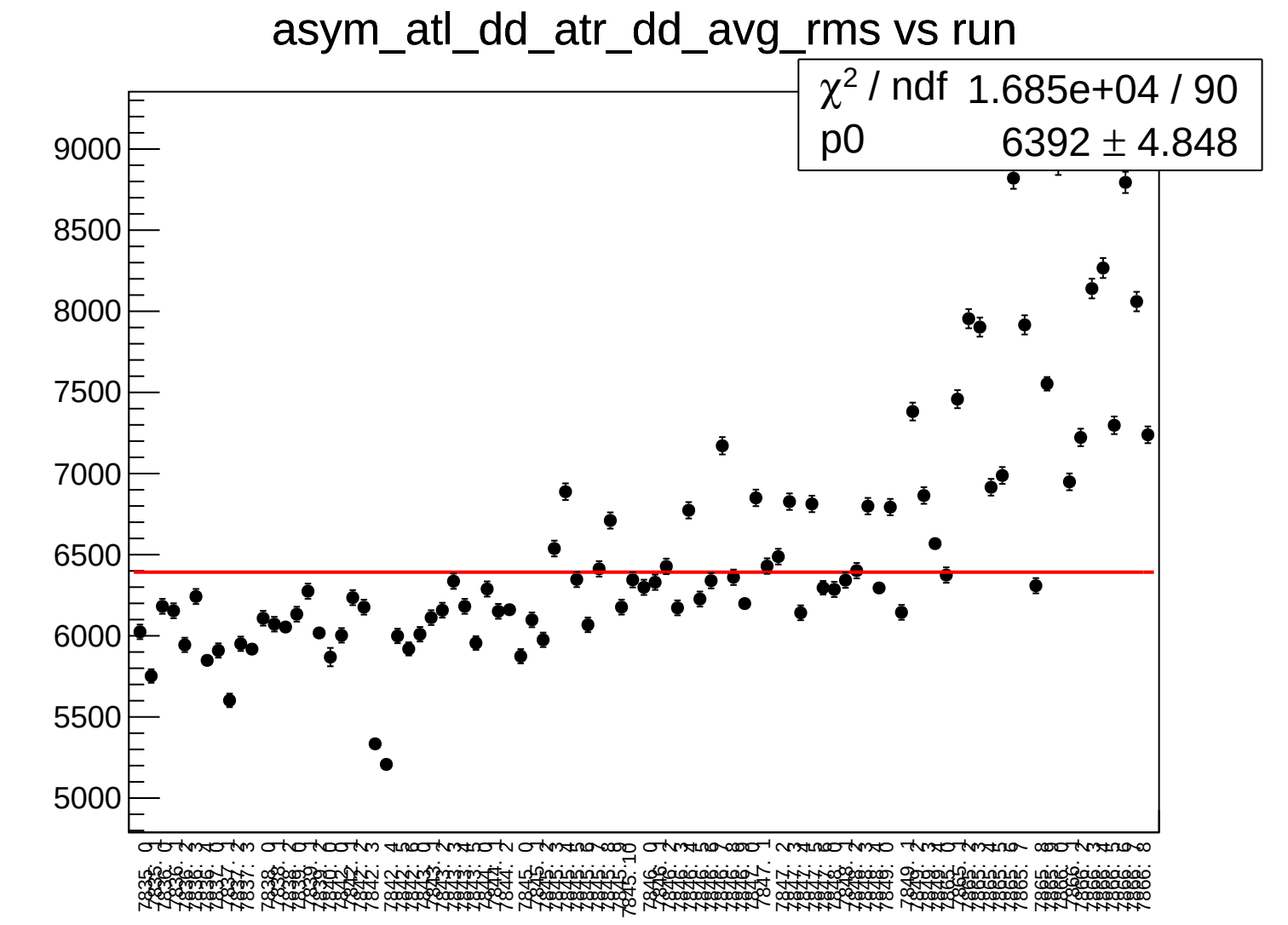

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 612.4 / 90
p0 1312 ± 0.9907
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

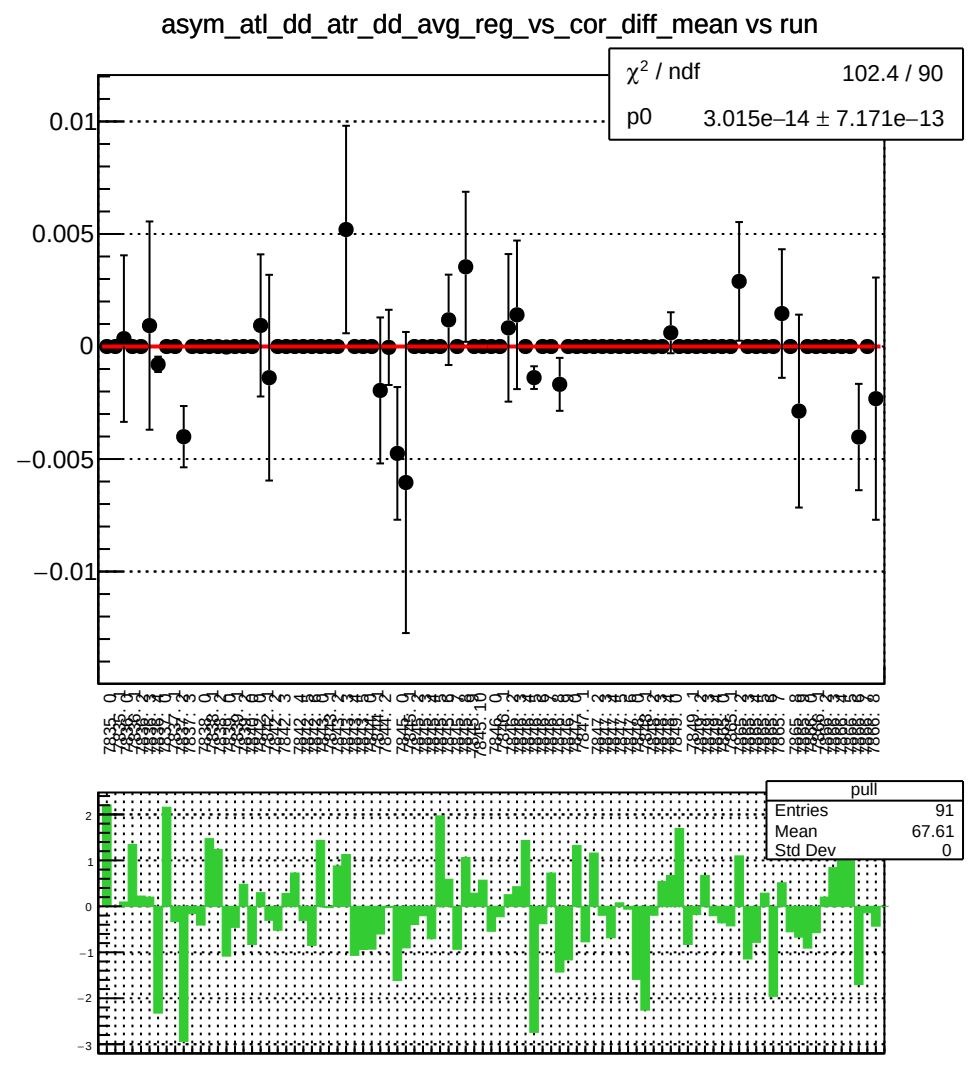

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.6 / 90
p0 1.152e+04 ± 6812
pull
Entries 91
Mean −97.75
Std Dev 0
pull1D
Entries 91
Mean −0.01432
Std Dev 1.062

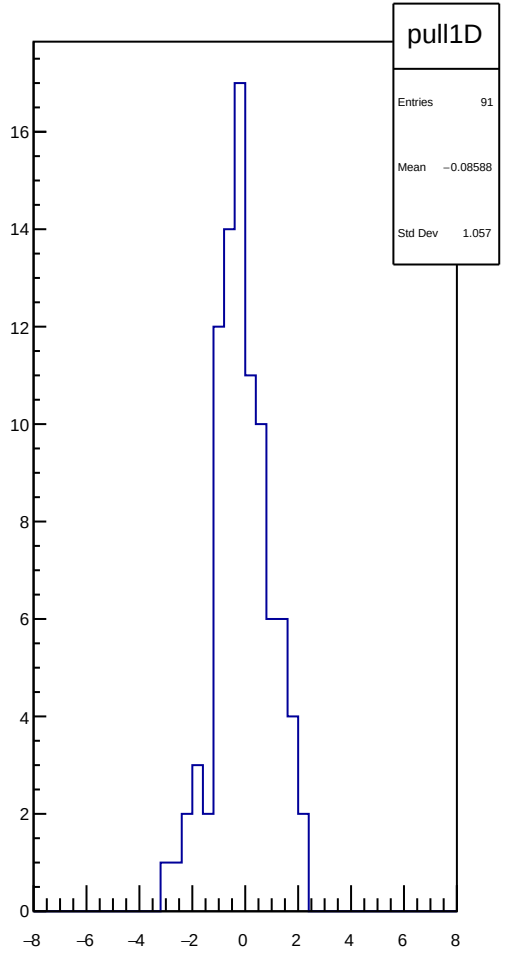

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.996e+04 / 90
p0 6345 ± 4.817
9000
8000
7000
6000
5000

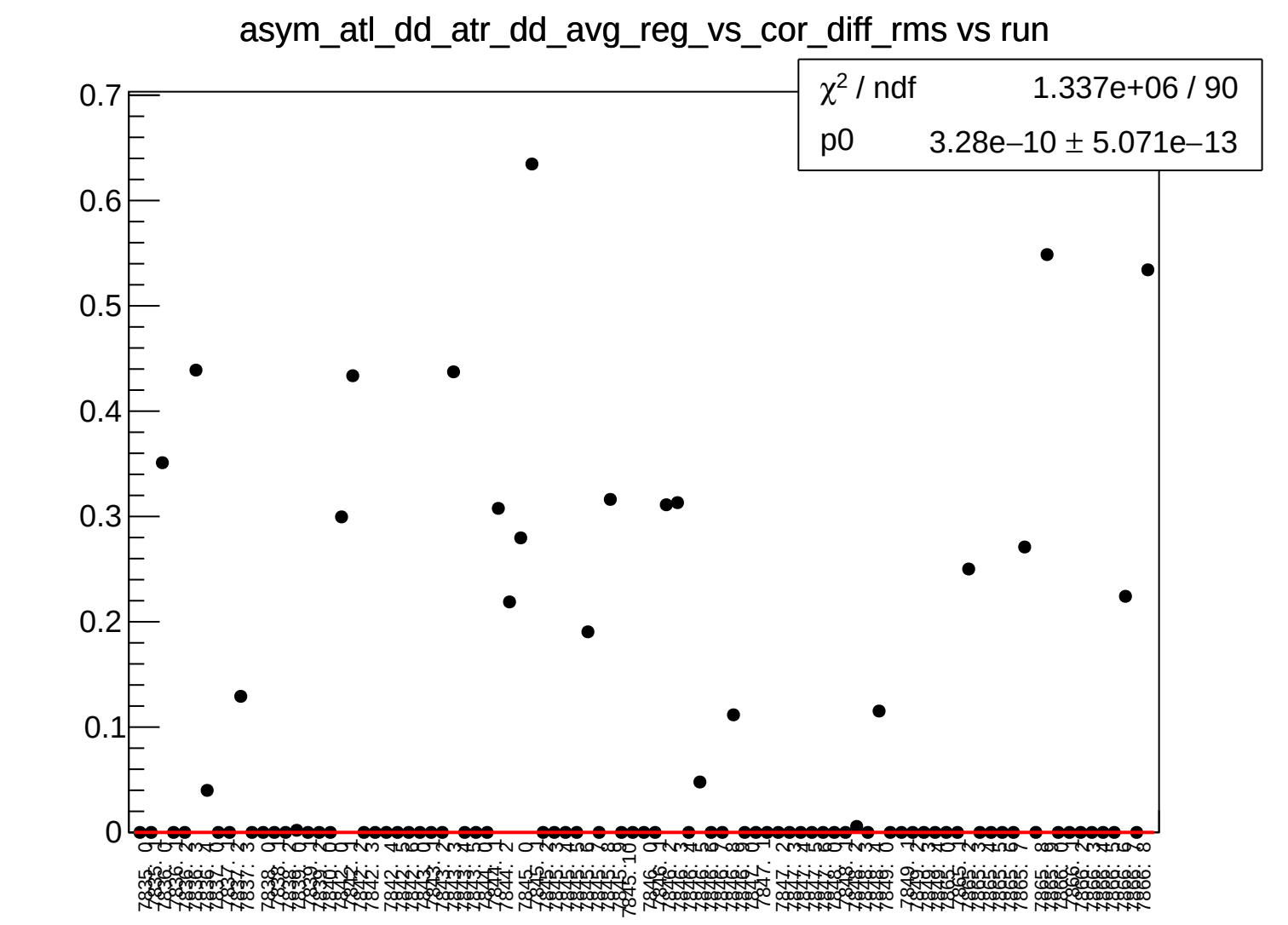

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 101.3 / 90
p0 −1.197e+04 ± 6857
pull
Entries 91
Mean −98.01
Std Dev 0

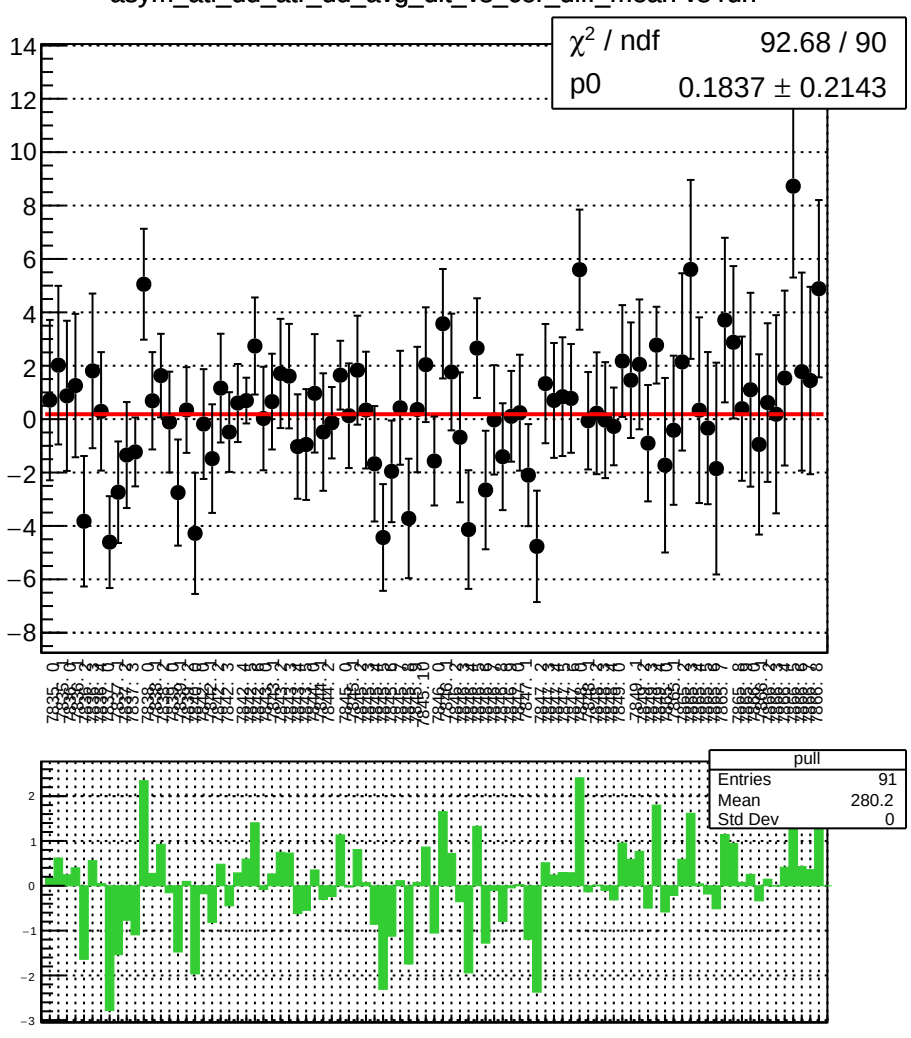

pull1D
Entries 91
Mean 0.01358
Std Dev 1.055

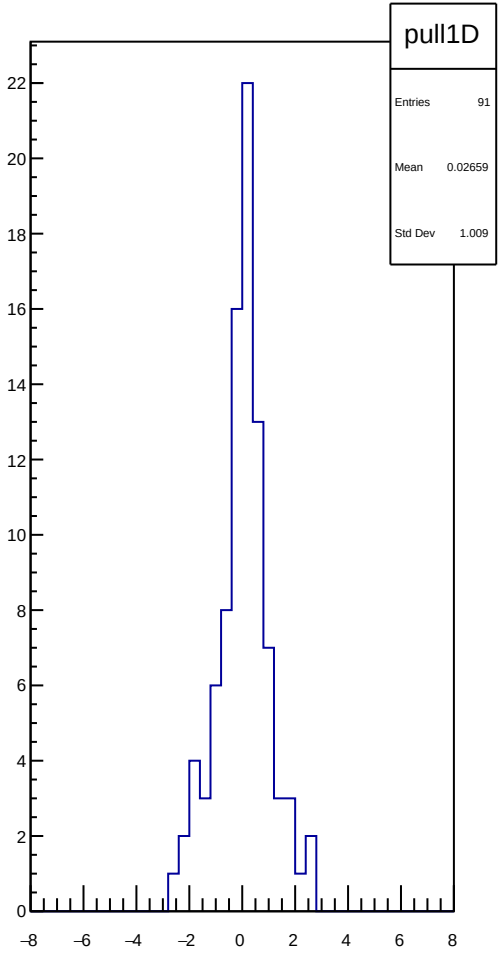

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1.685e+04 / 90
p0 6392 ± 4.848
9000
8500
8000
7500
7000
6500
6000
5500
5000

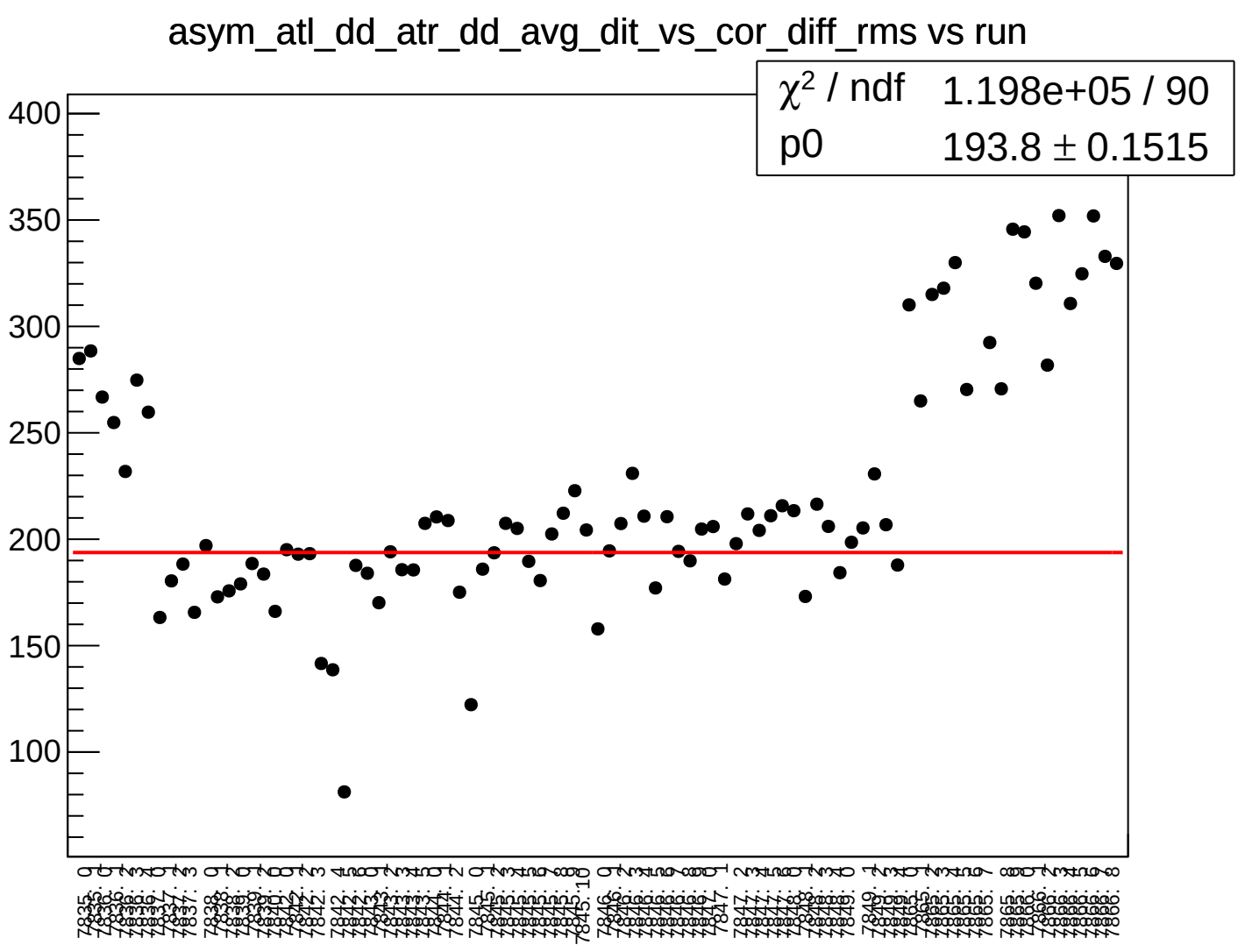

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 90
p0 3.015e−14 ± 7.171e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 67.61
Std Dev 0
2
1
0
−1
−2
−3

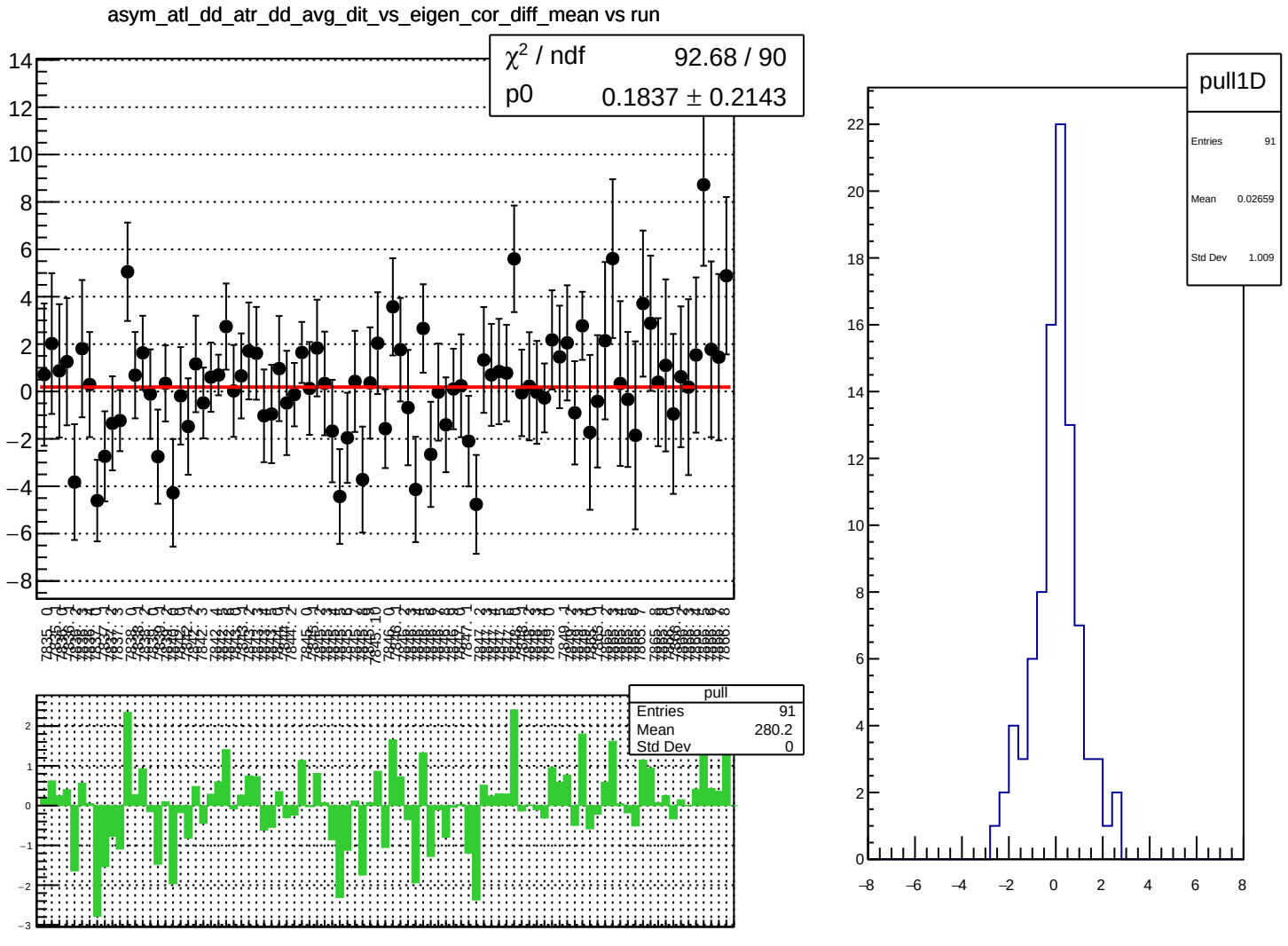

pull1D
Entries 91
Mean −0.08588
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

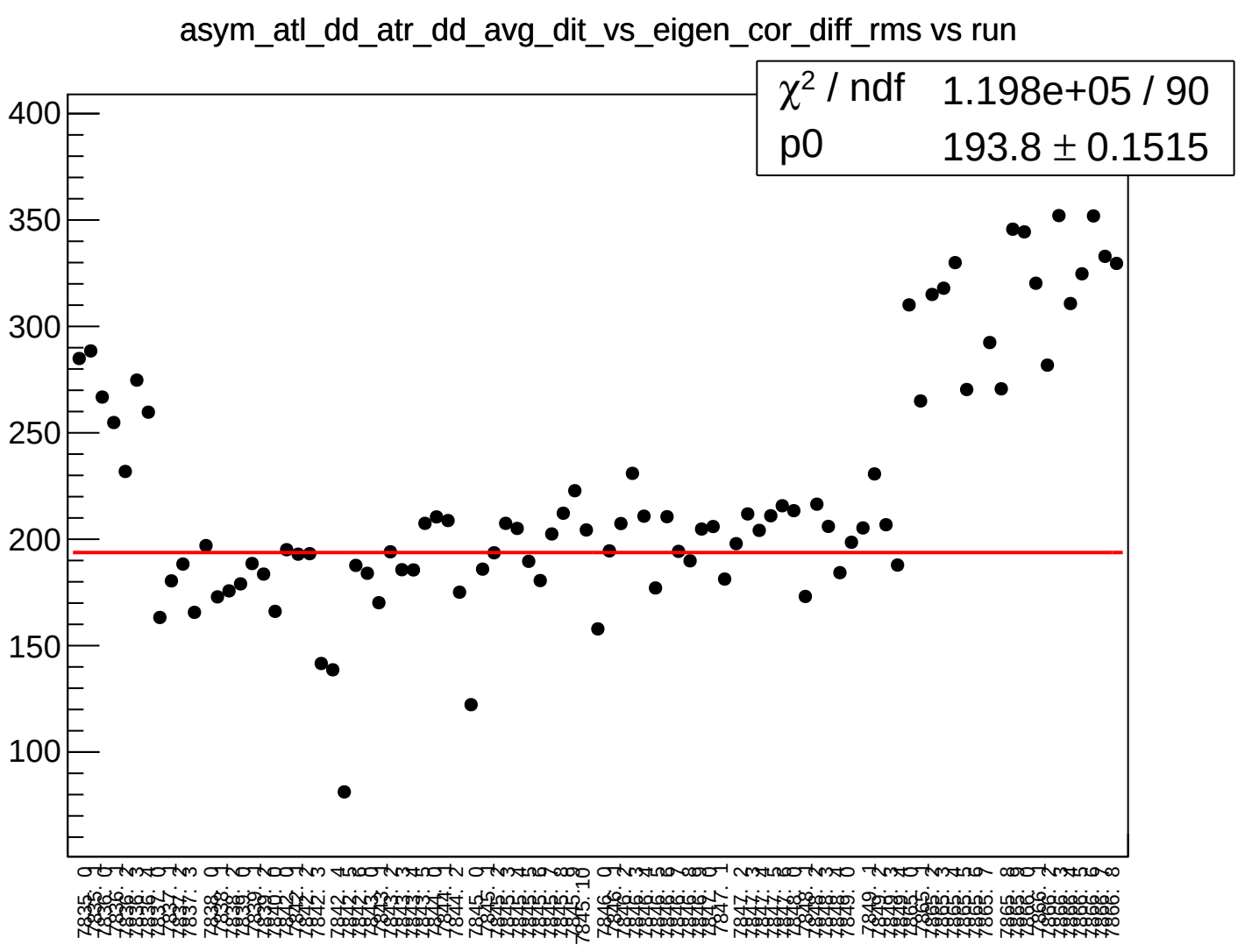

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.337e+06 / 90
p0 3.28e−10 ± 5.071e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

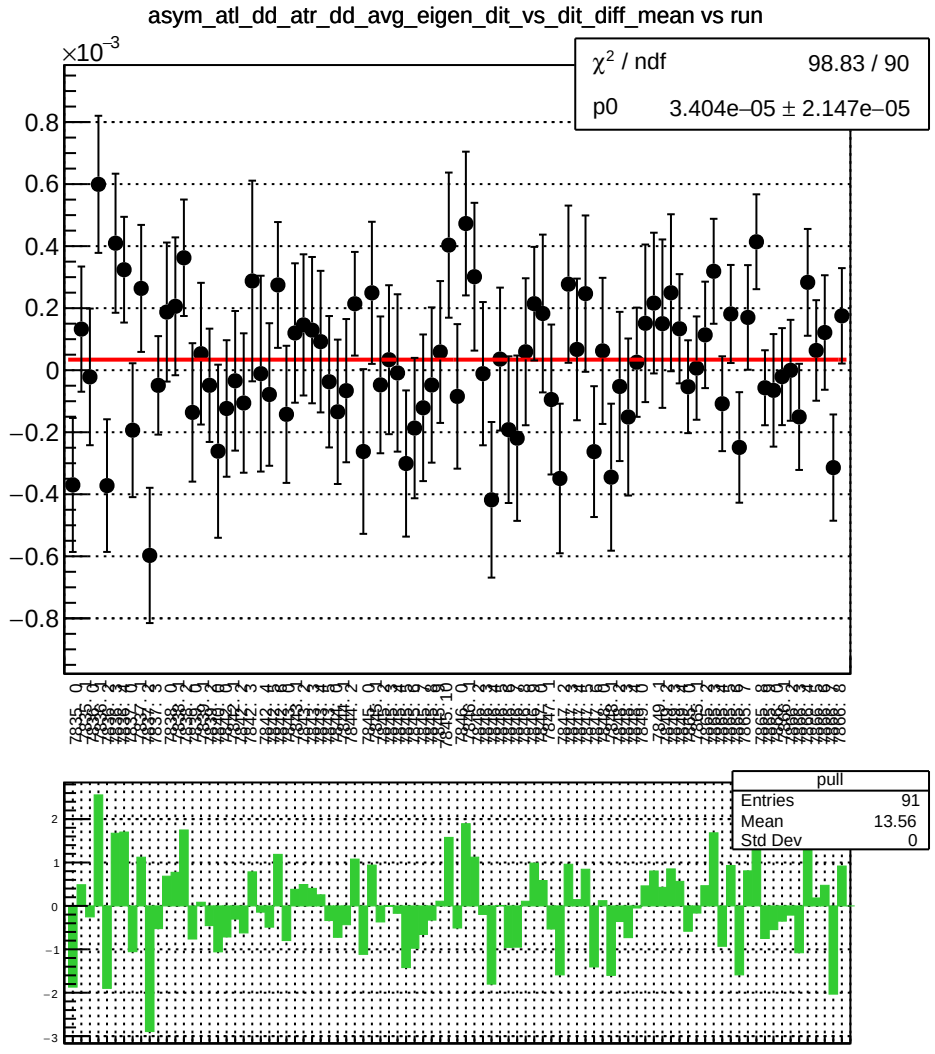

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1837 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0

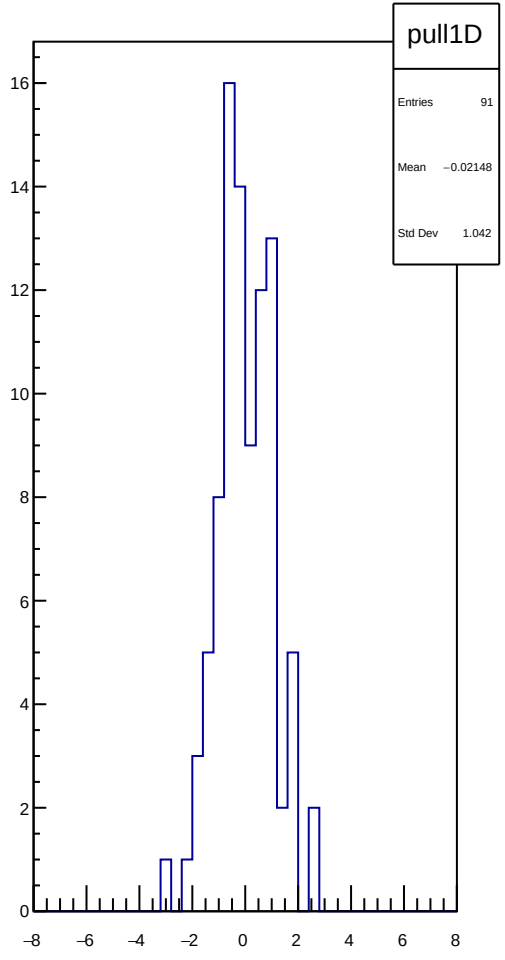

pull1D
Entries 91
Mean 0.02659
Std Dev 1.009

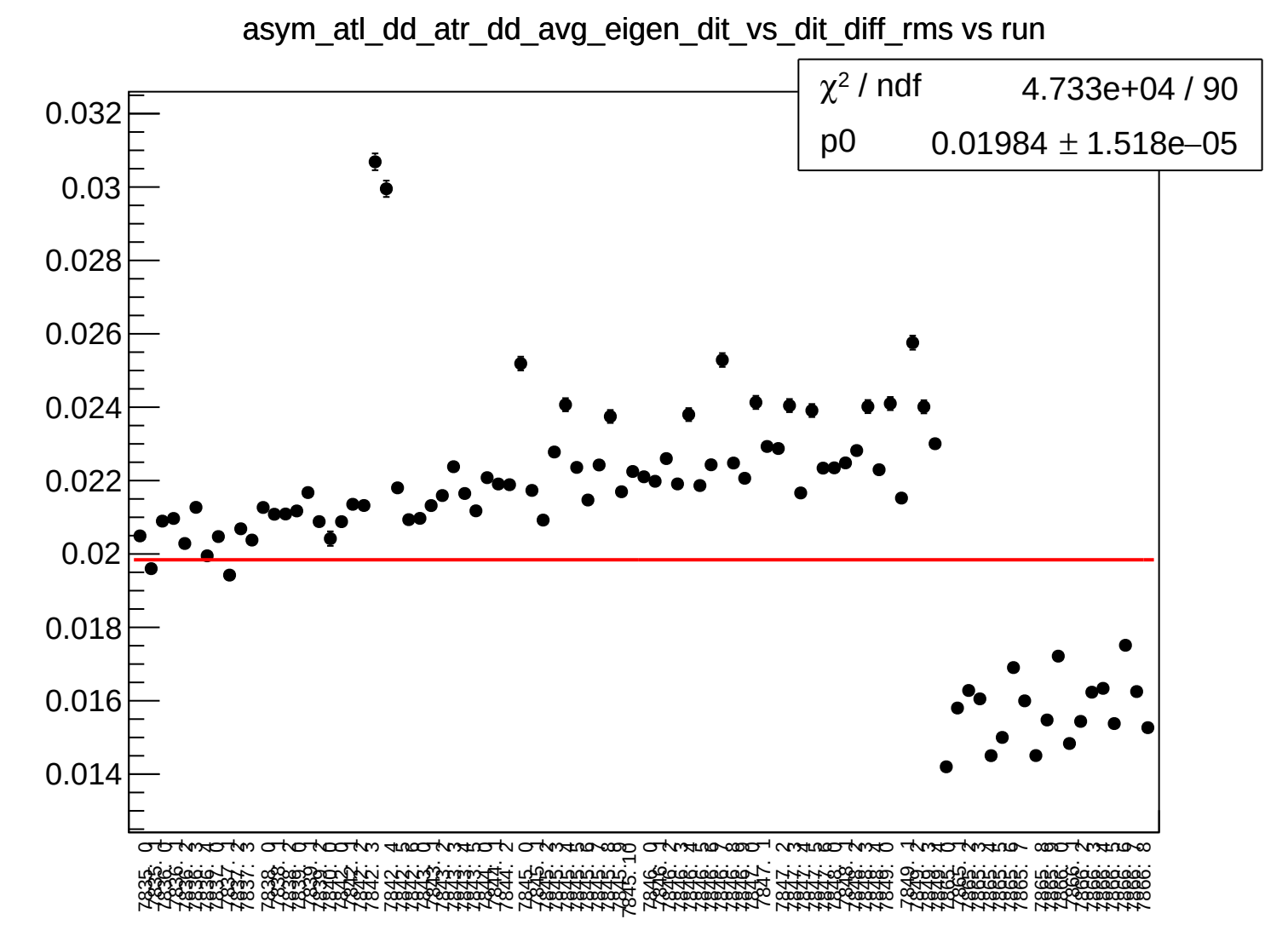

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100


asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1837 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02659
Std Dev 1.009

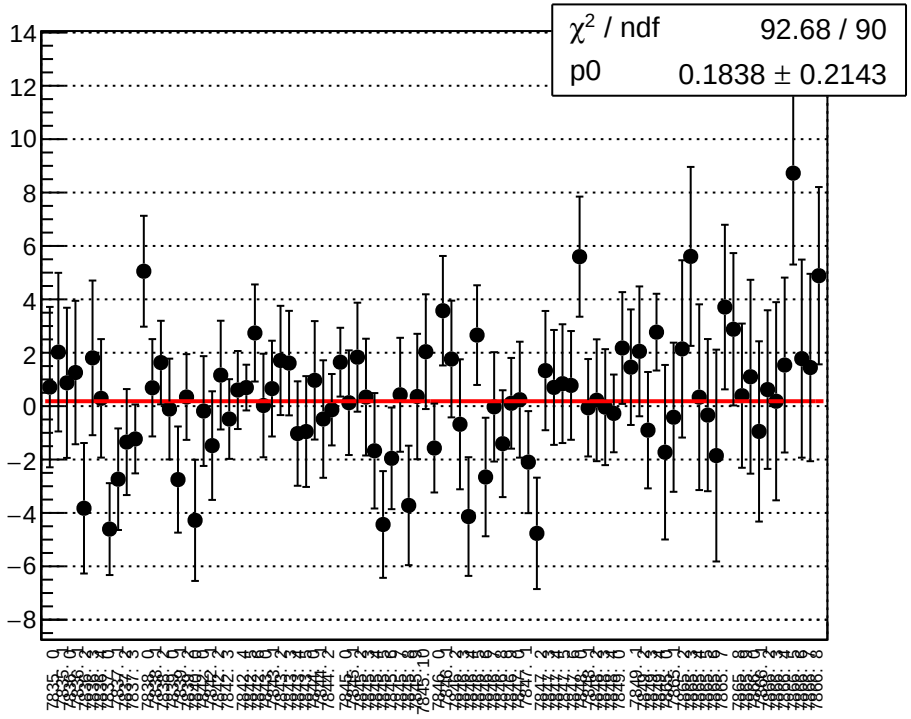

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

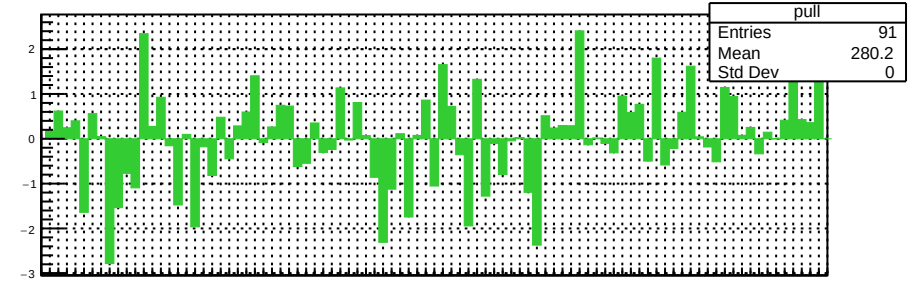

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.83 / 90
p0 3.404e−05 ± 2.147e−05
pull
Entries 91
Mean 13.56
Std Dev 0

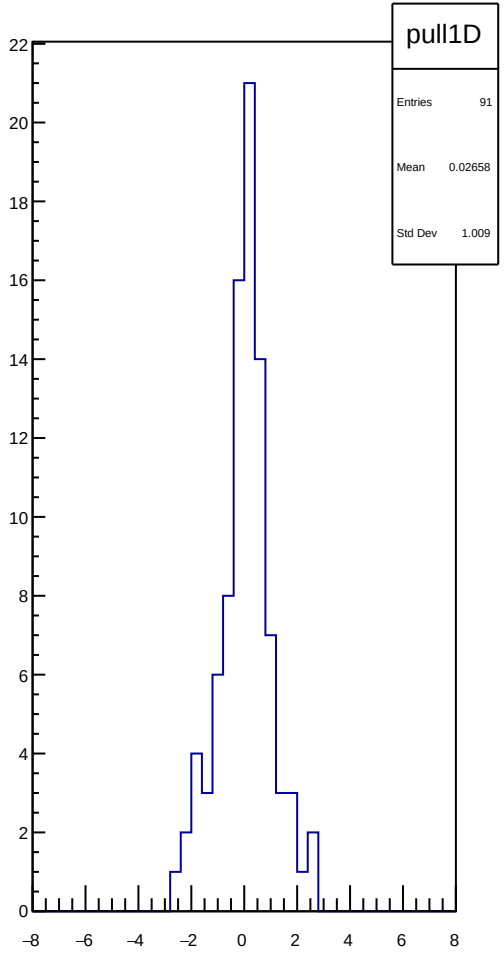

pull1D
Entries 91
Mean −0.02148
Std Dev 1.042

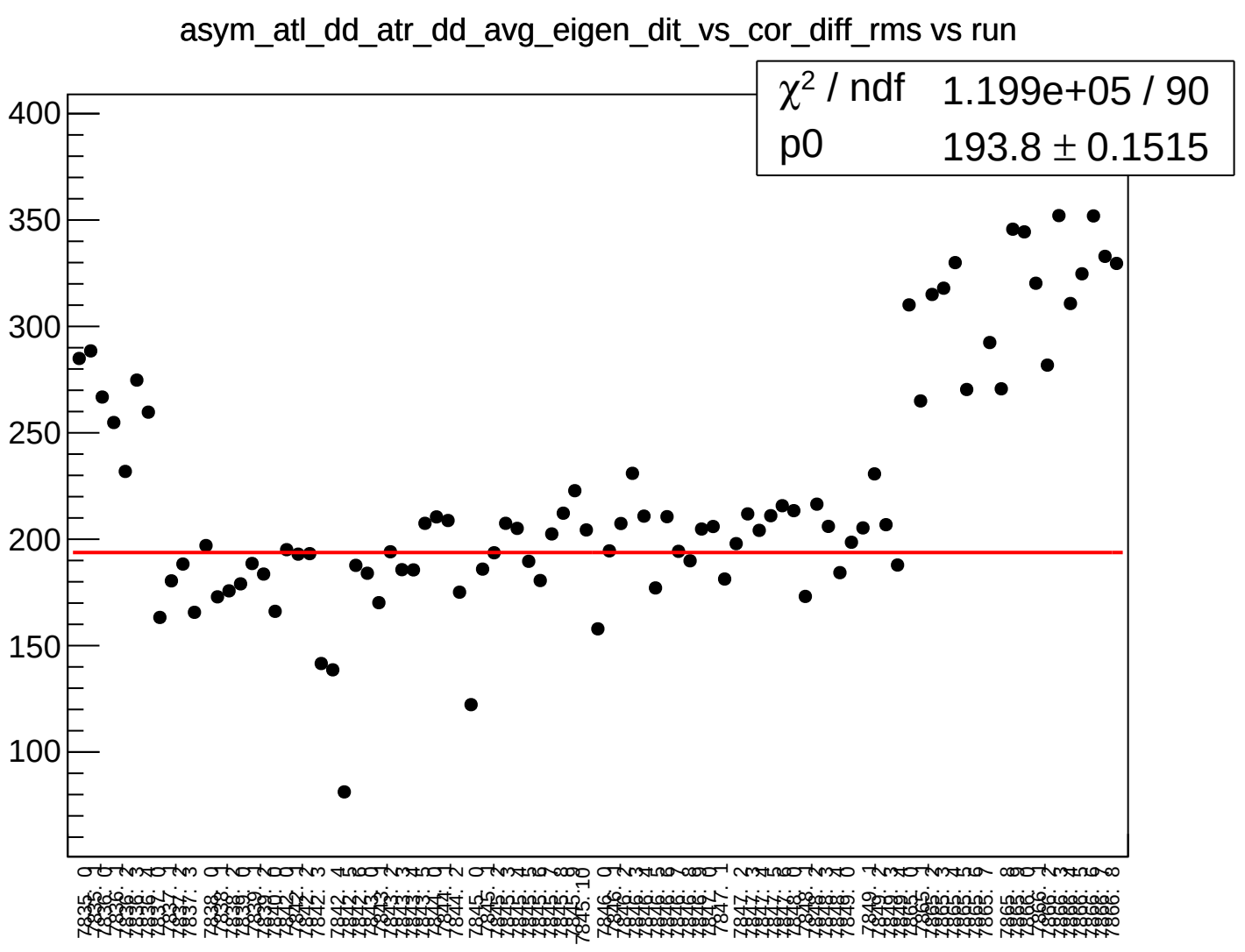

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.733e+04 / 90
p0 0.01984 ± 1.518e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

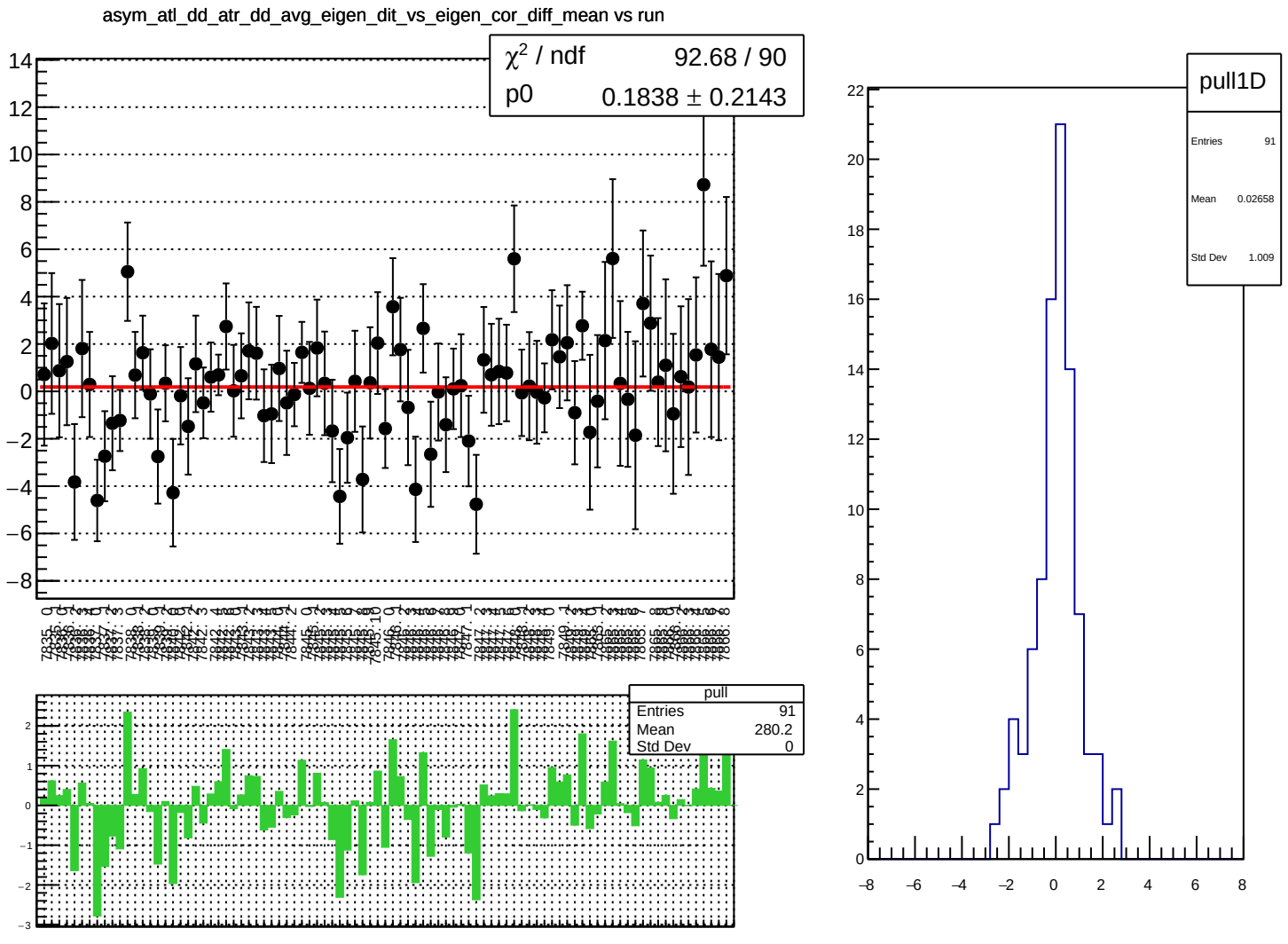
asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

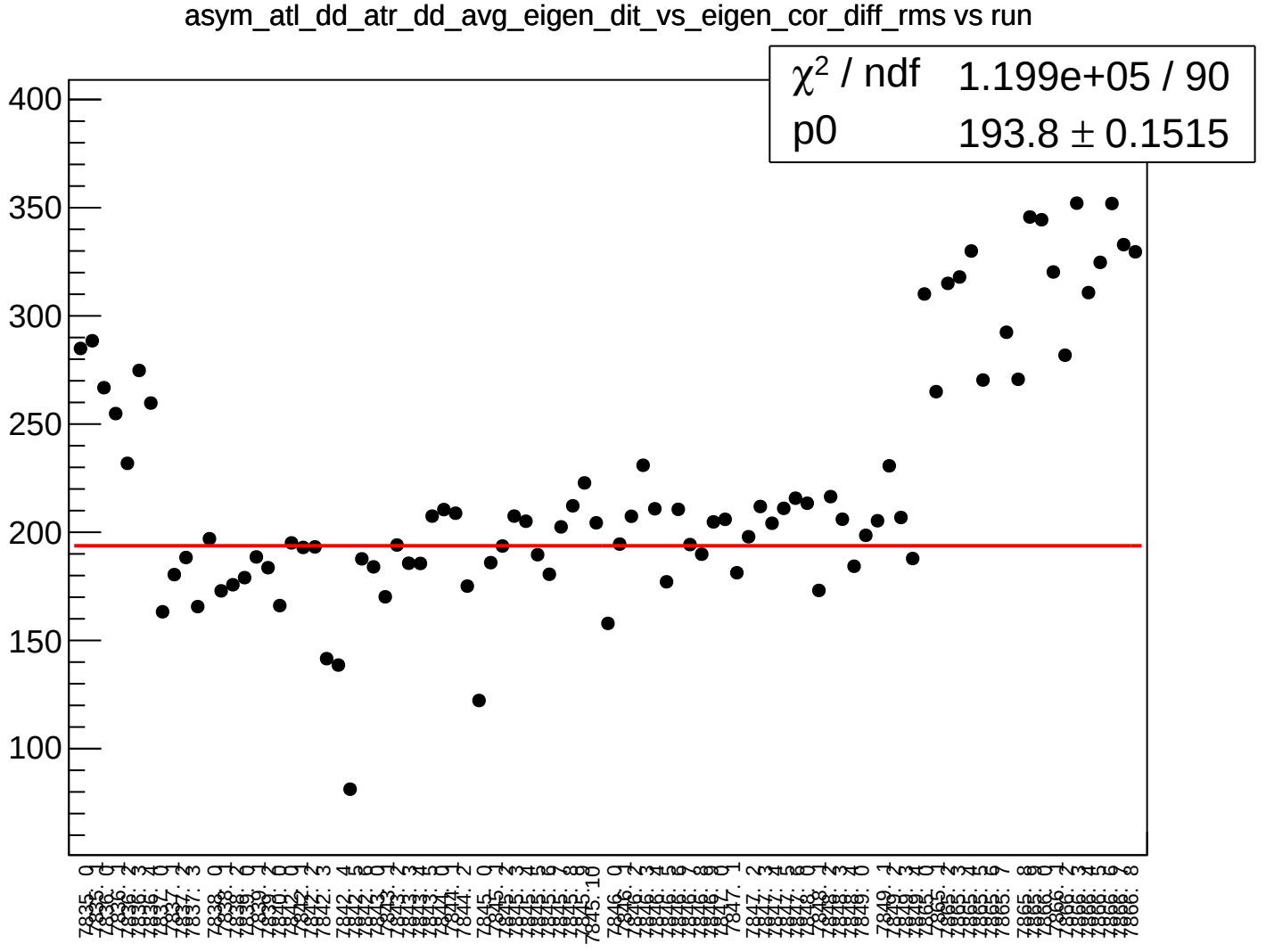


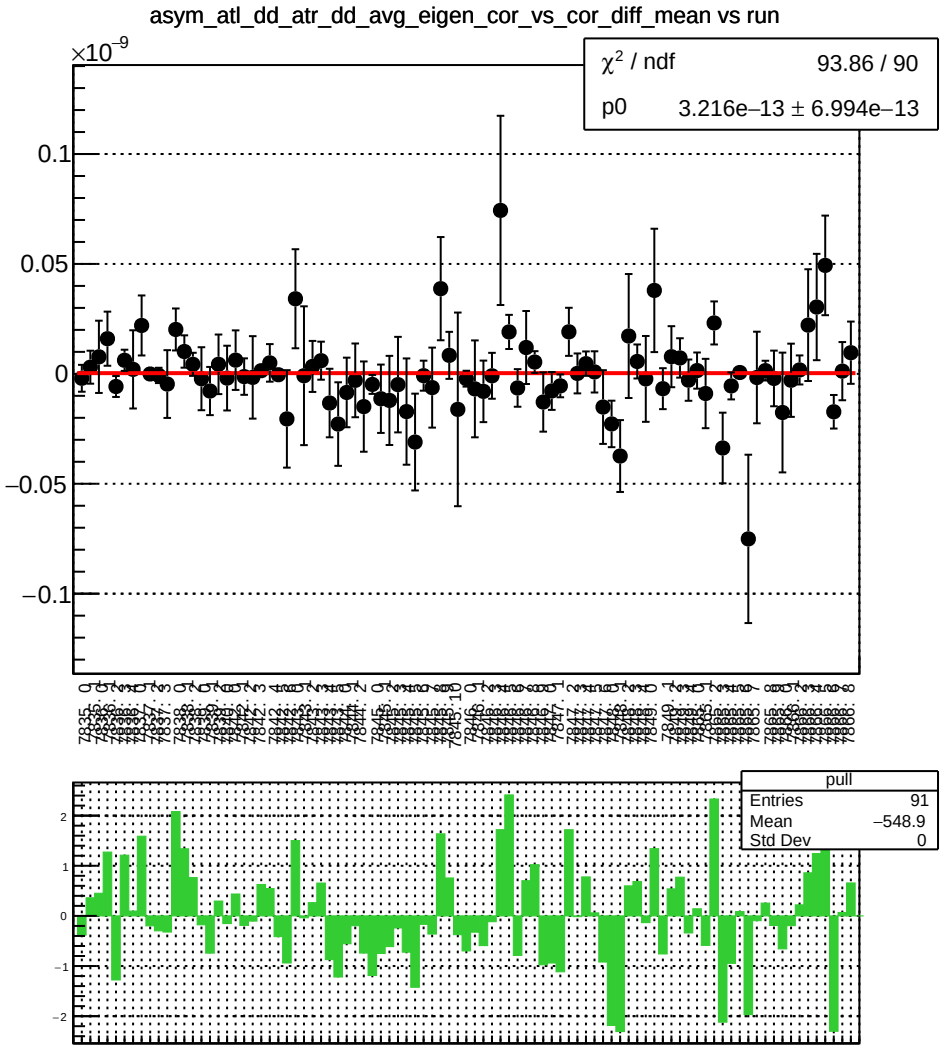


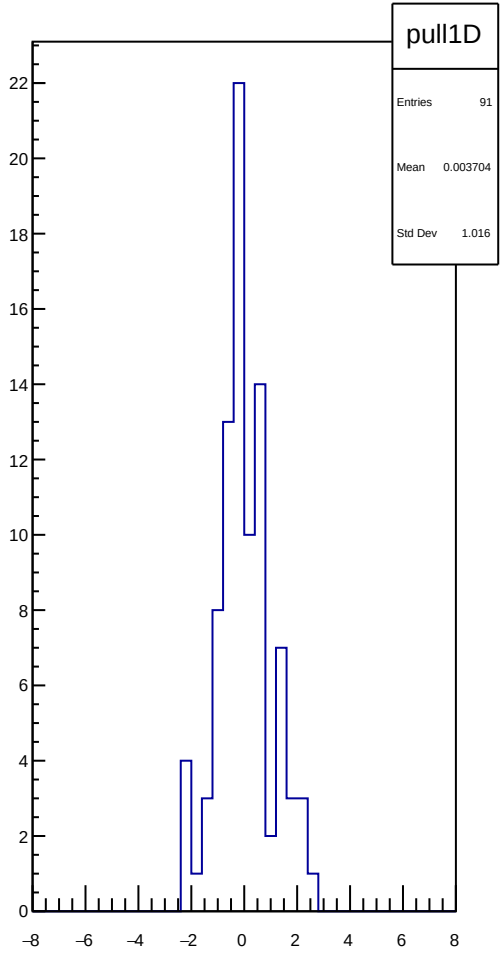


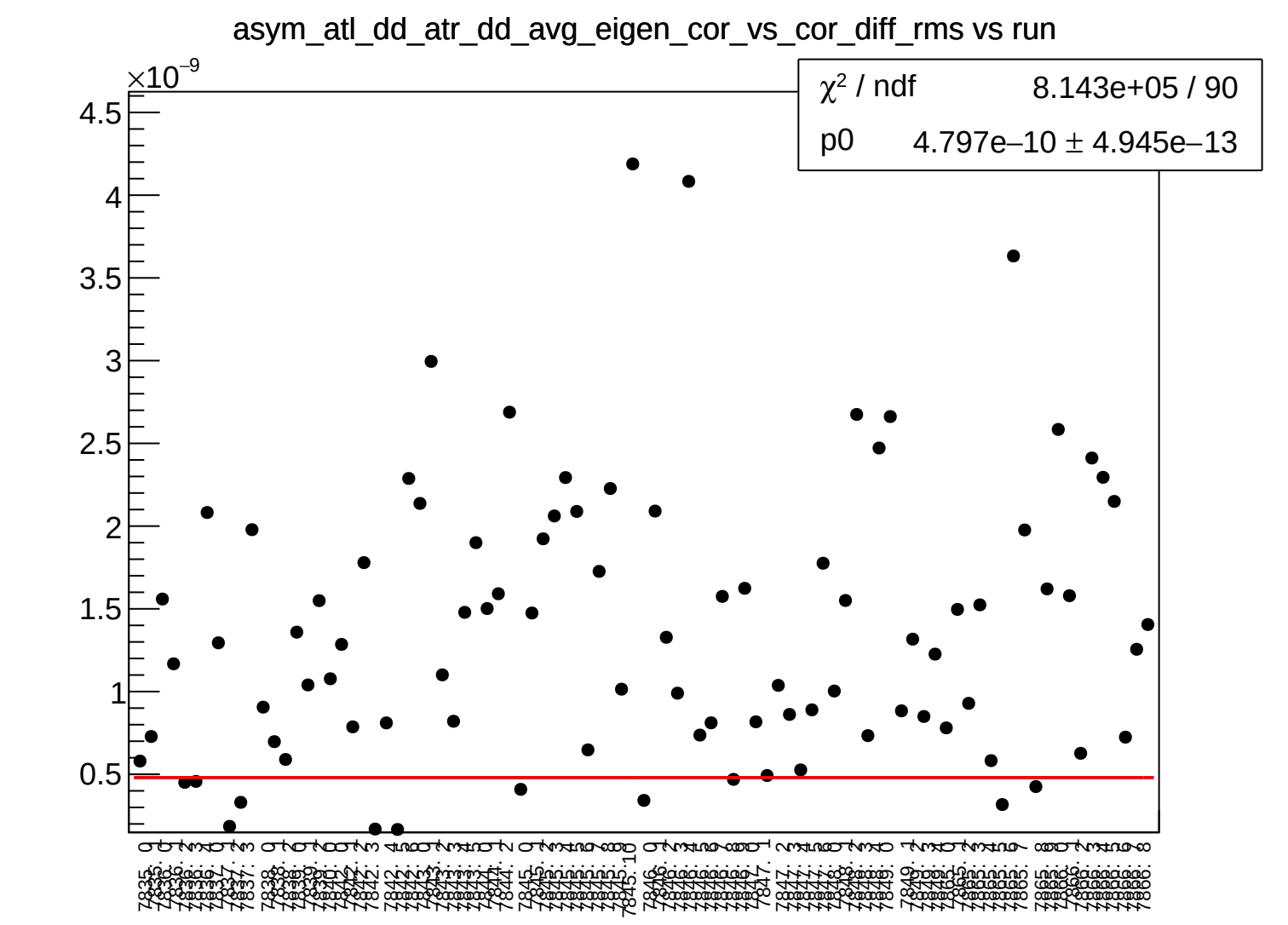

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.199e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

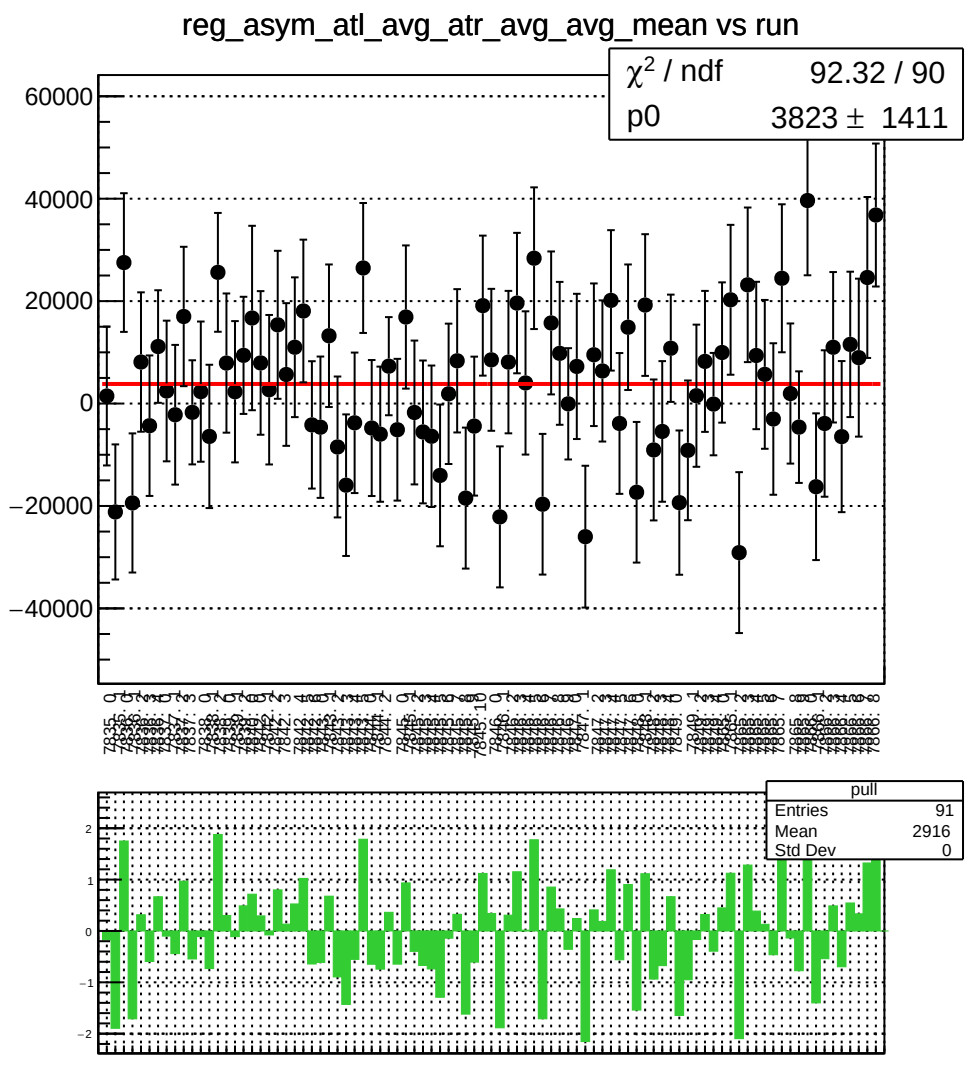

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1838 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02658
Std Dev 1.009

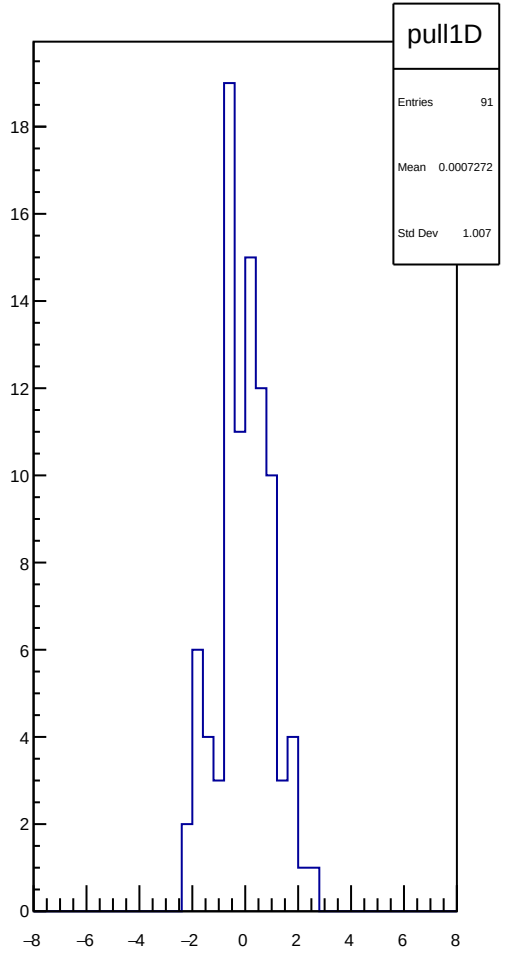

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.199e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

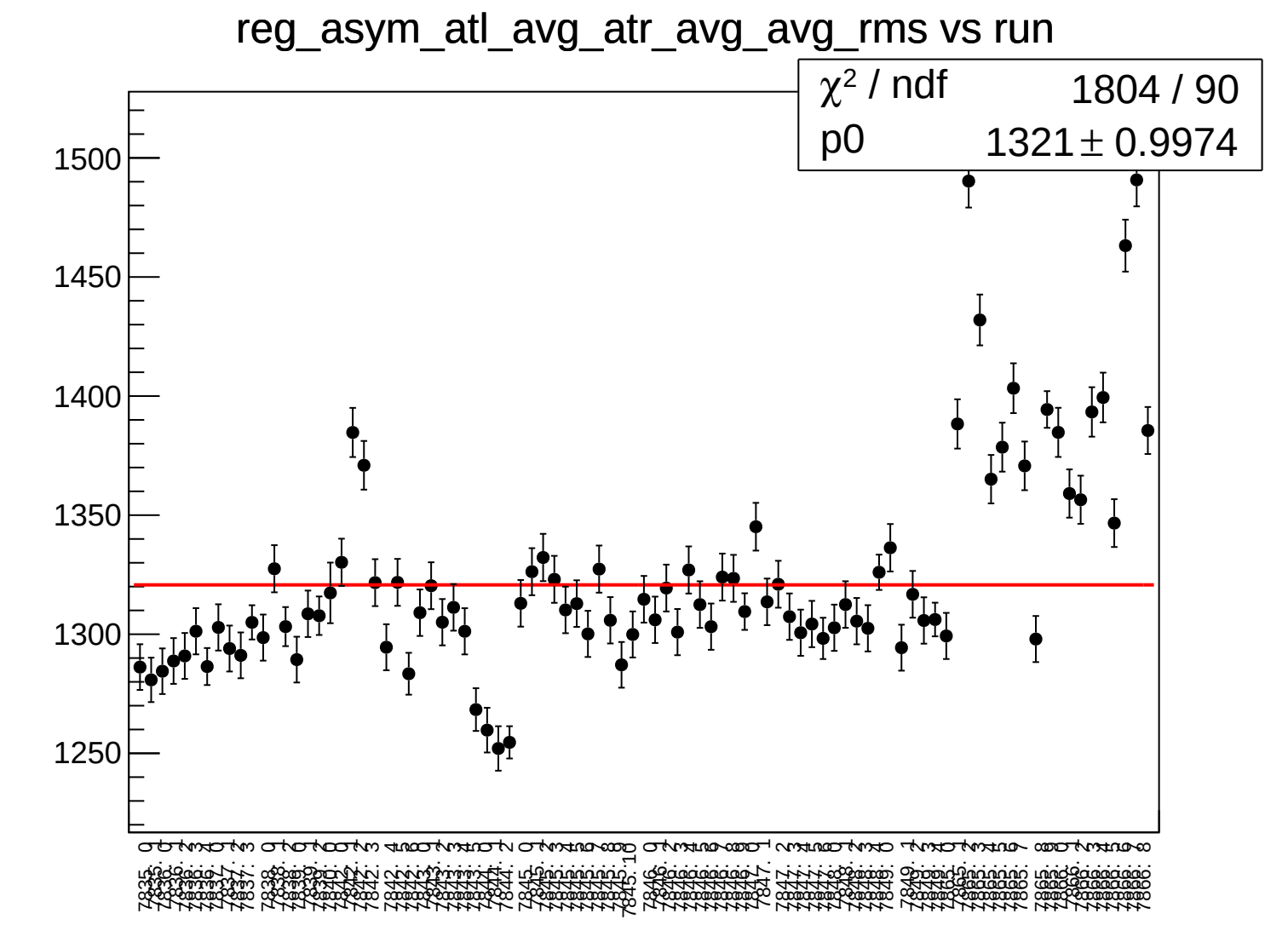

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 93.86 / 90
p0 3.216e−13 ± 6.994e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −548.9
Std Dev 0
2
1
0
−1
−2

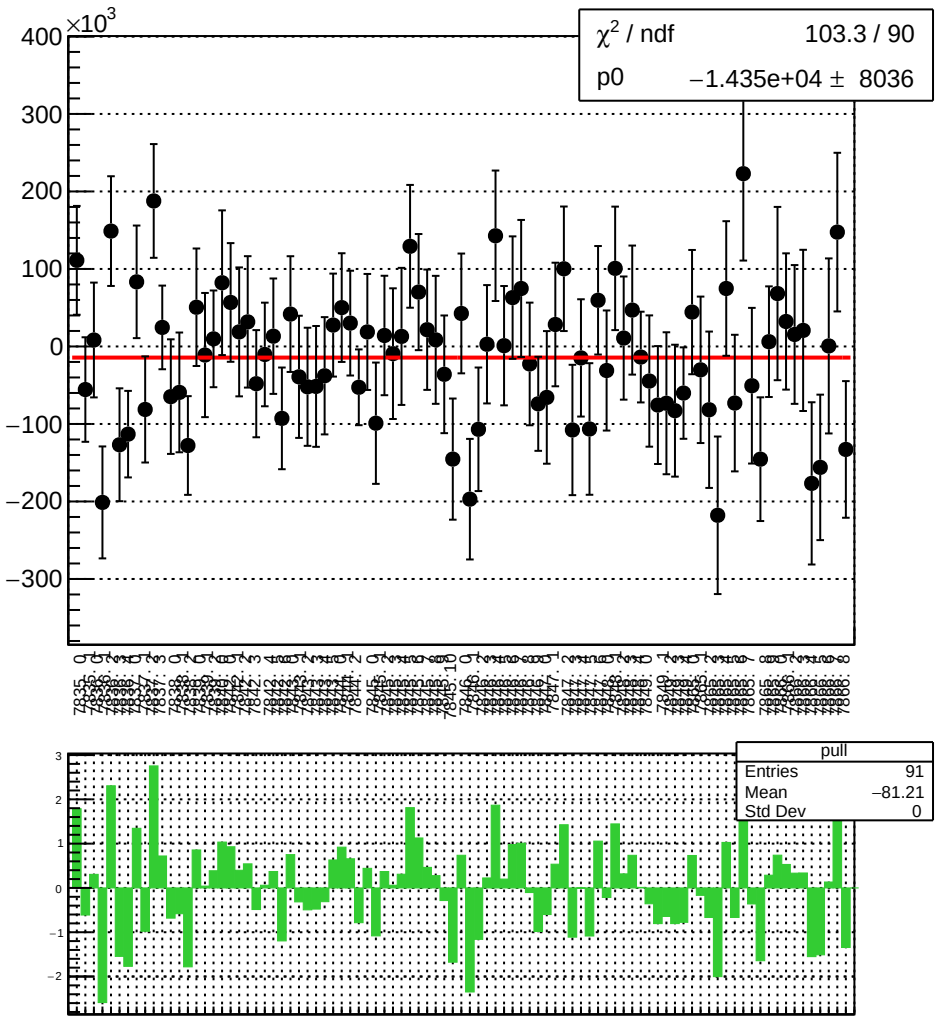

pull1D
Entries 91
Mean 0.003704
Std Dev 1.016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

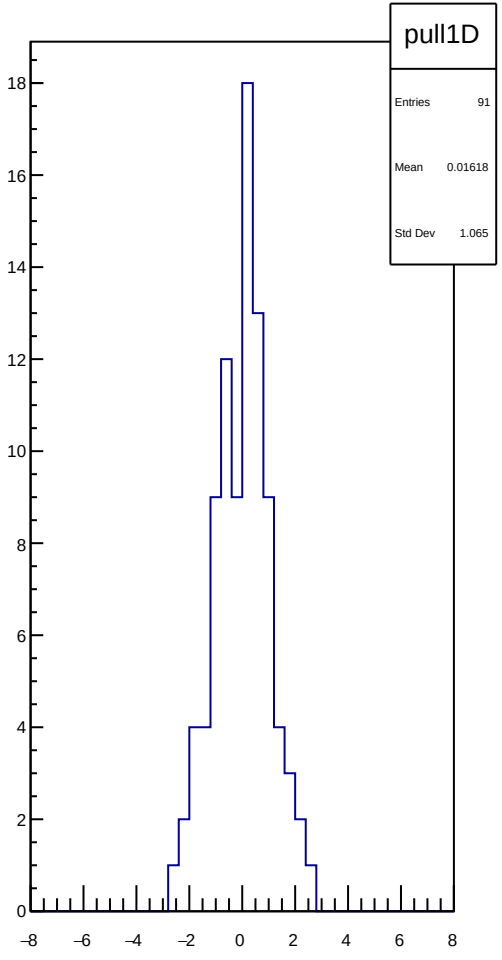

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.143e+05 / 90
p0 4.797e−10 ± 4.945e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

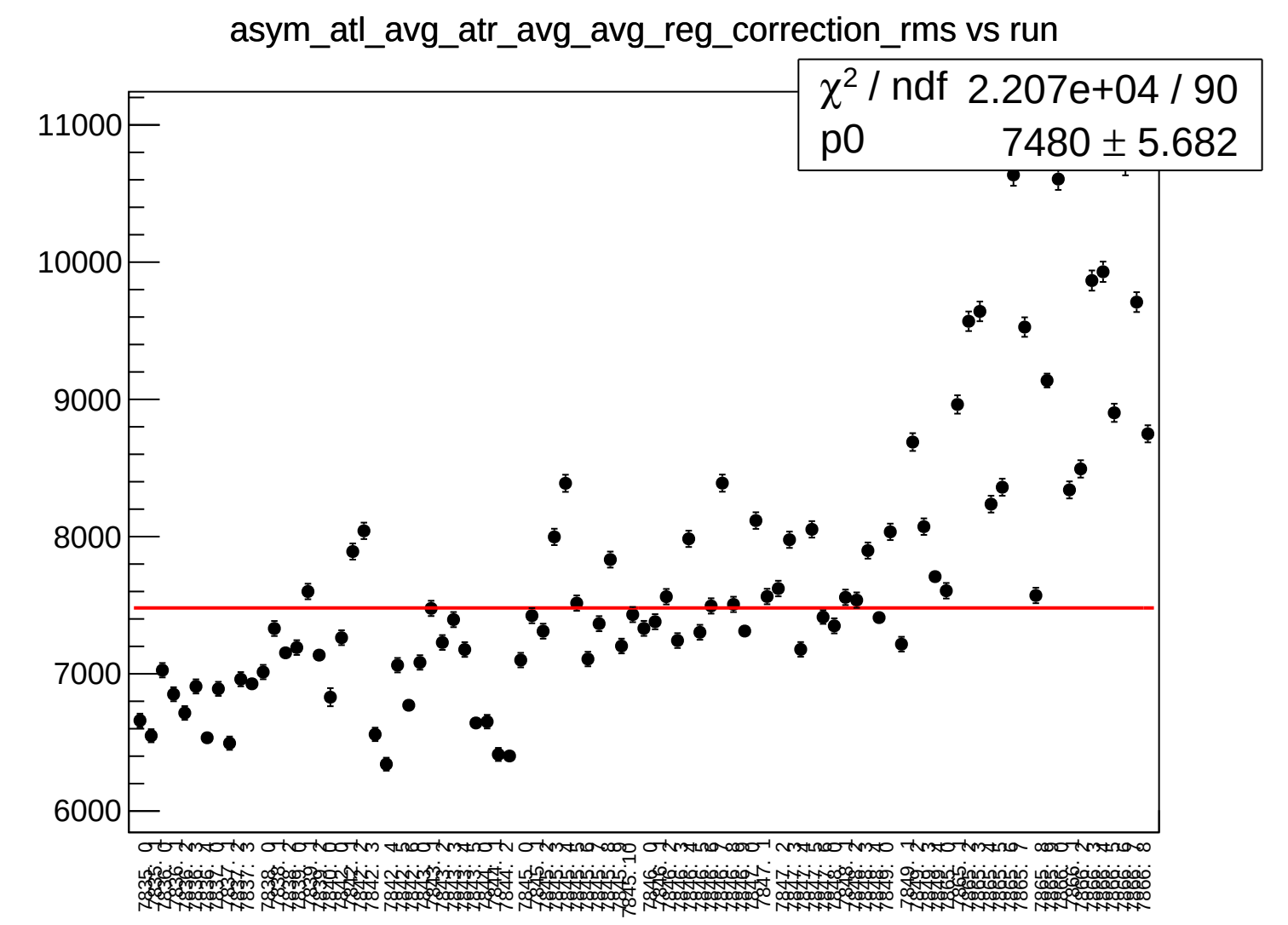

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.32 / 90
p0 3823 ± 1411
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 2916
Std Dev 0
2
1
0
−1
−2

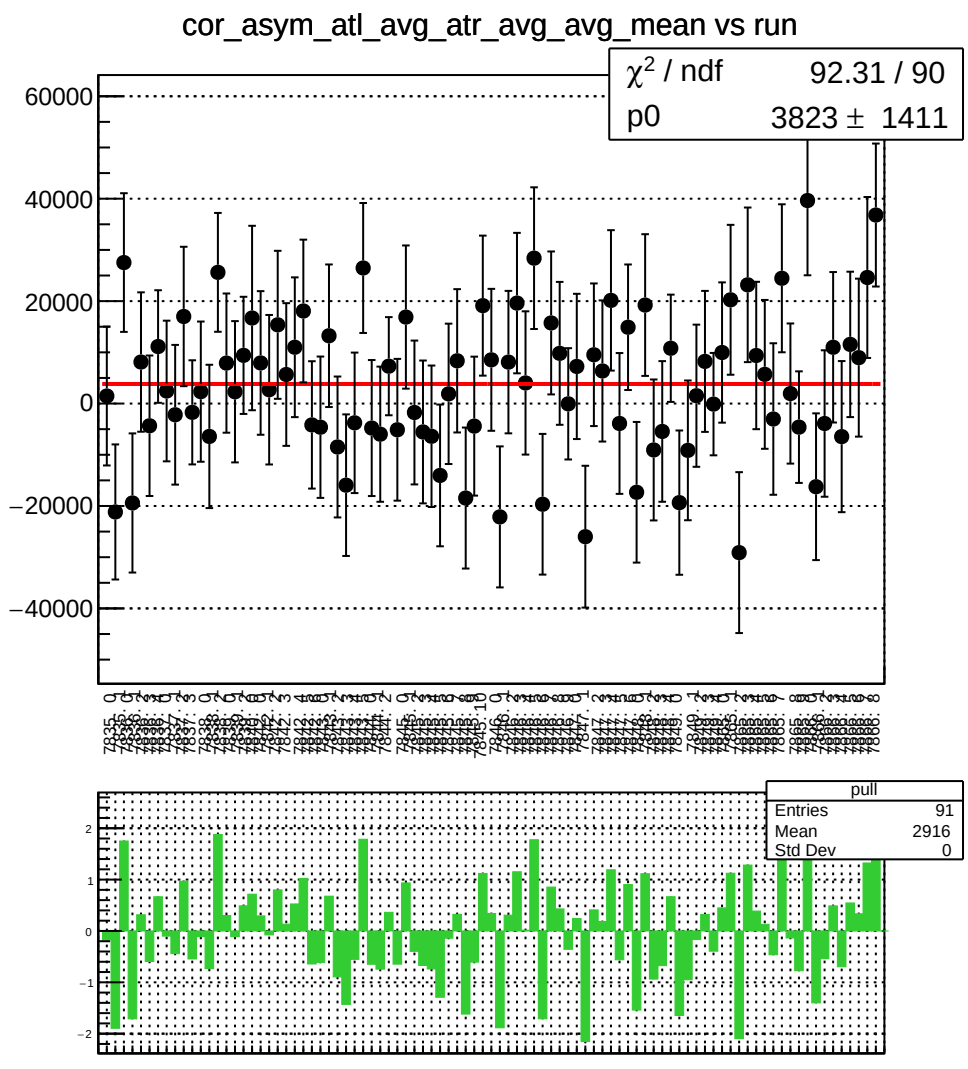

pull1D
Entries 91
Mean 0.0007272
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

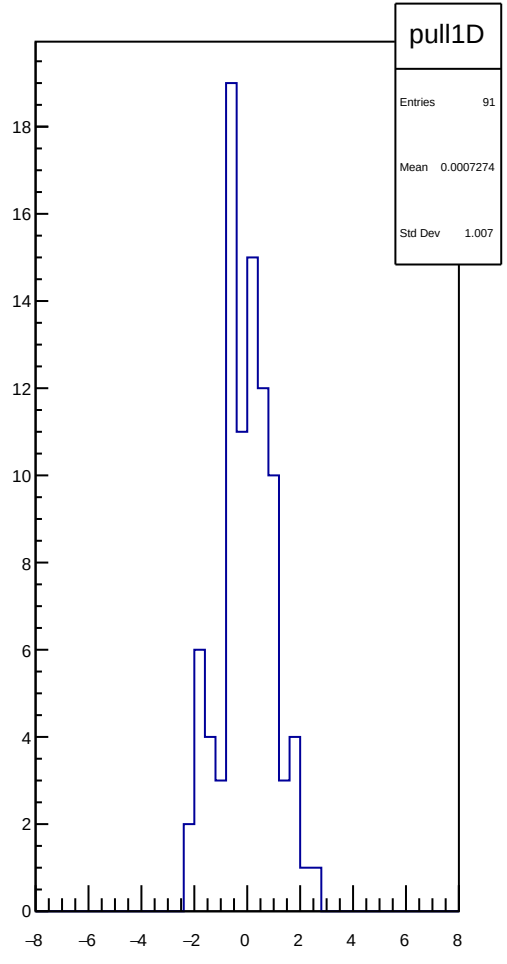

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1804 / 90
p0 1321 ± 0.9974
1500
1450
1400
1350
1300
1250

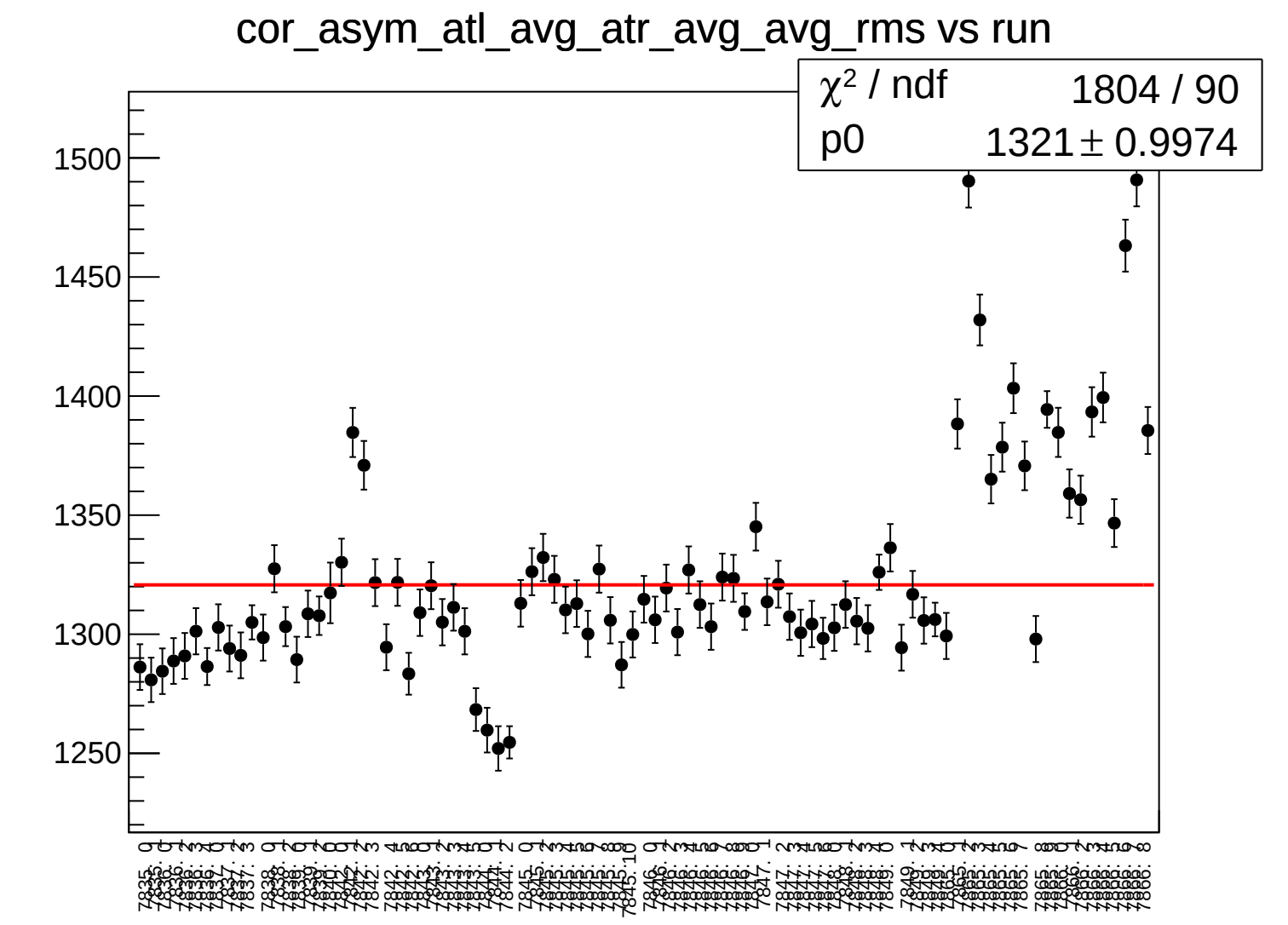

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.3 / 90
p0 −1.435e+04 ± 8036
pull
Entries 91
Mean −81.21
Std Dev 0

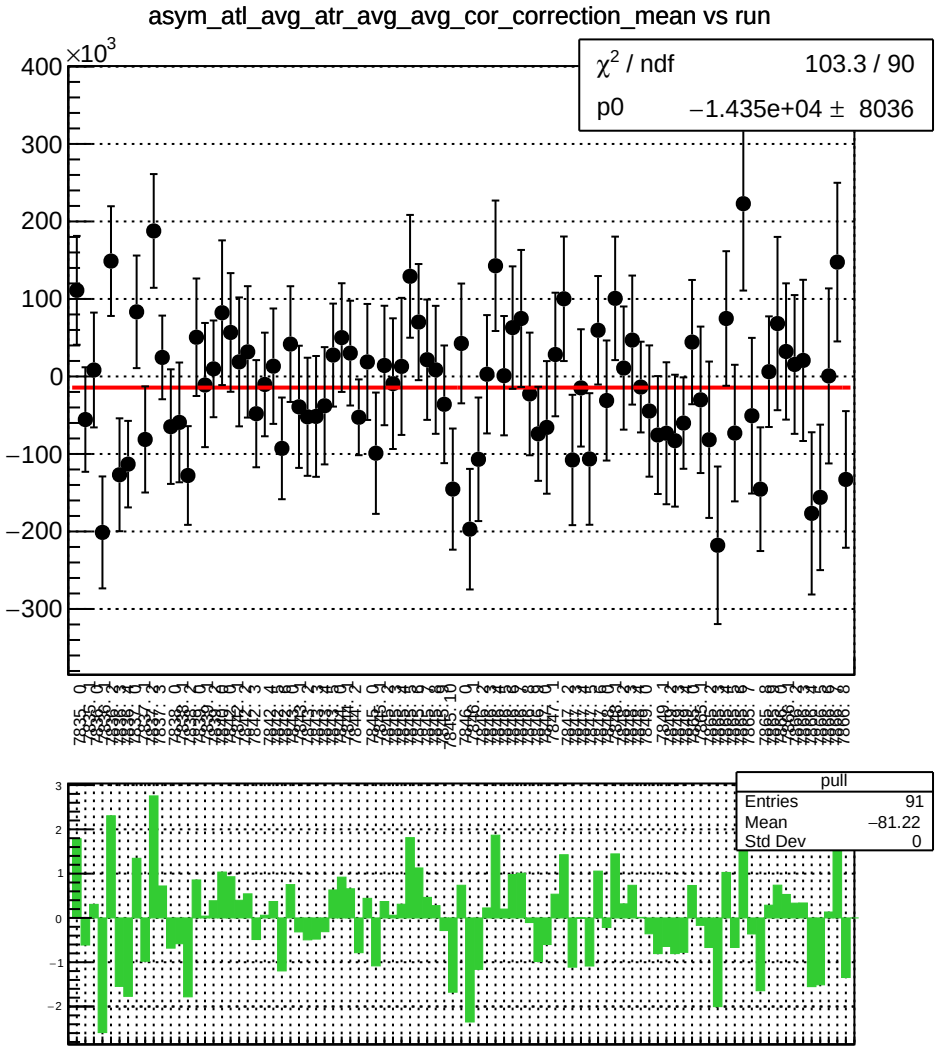

pull1D
Entries 91
Mean 0.01618
Std Dev 1.065

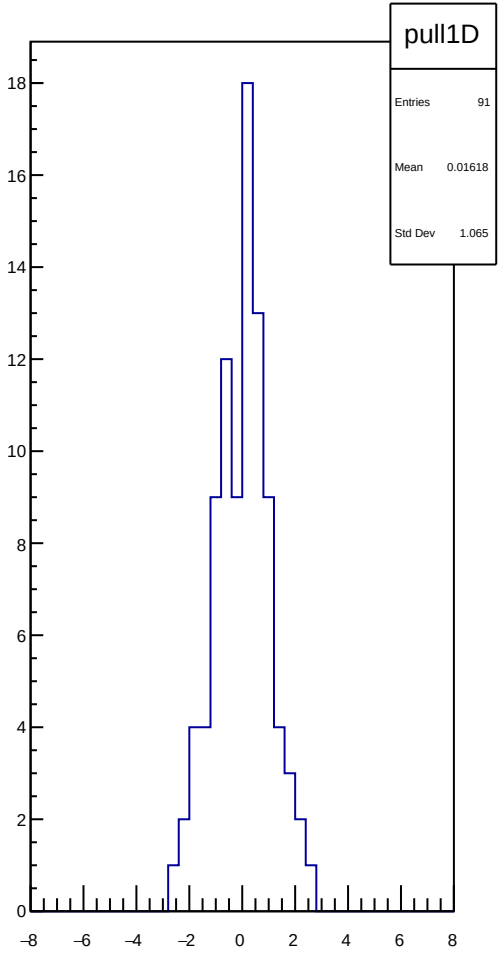

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.207e+04 / 90
p0 7480 ± 5.682
11000
10000
9000
8000
7000
6000

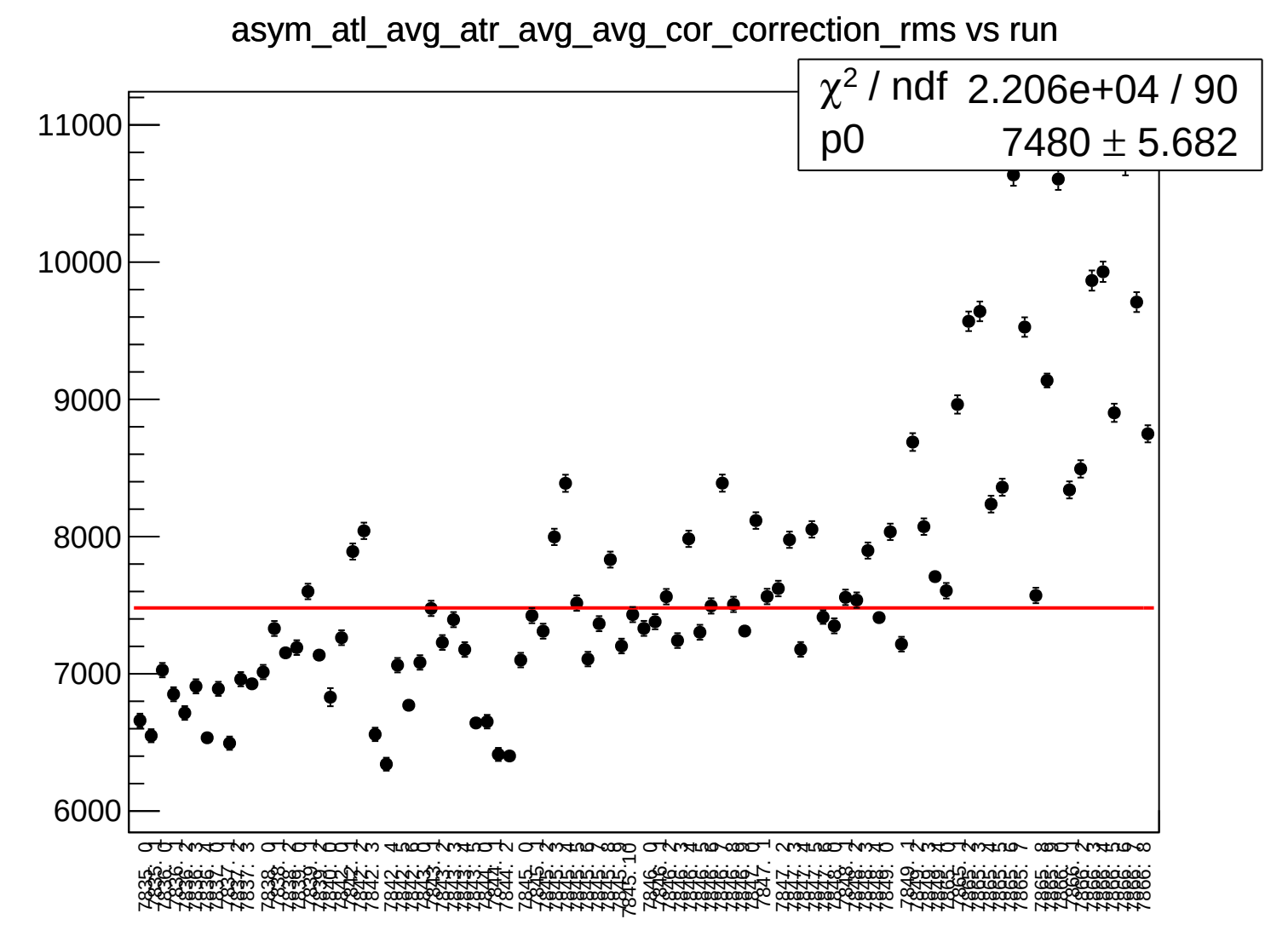

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.31 / 90
p0 3823 ± 1411
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 2916
Std Dev 0
2
1
0
−1
−2

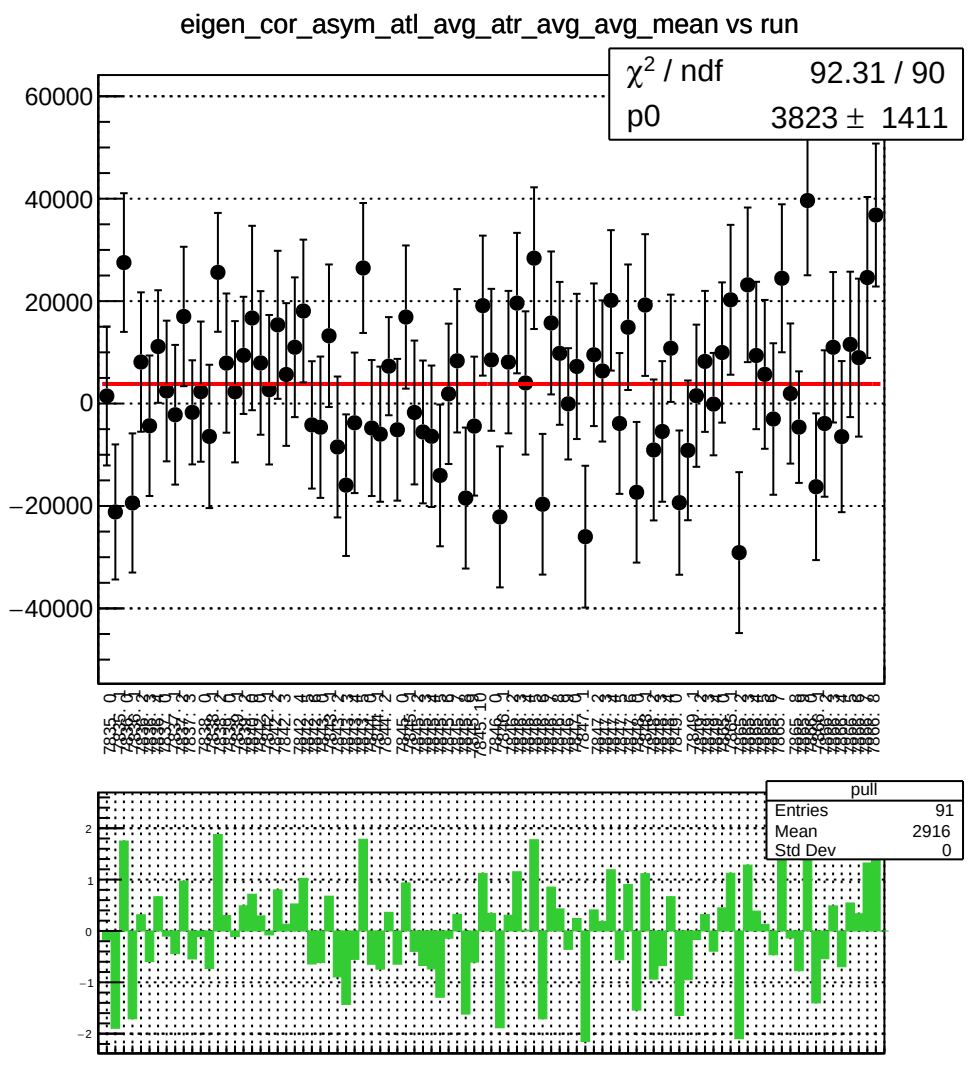

pull1D
Entries 91
Mean 0.0007274
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

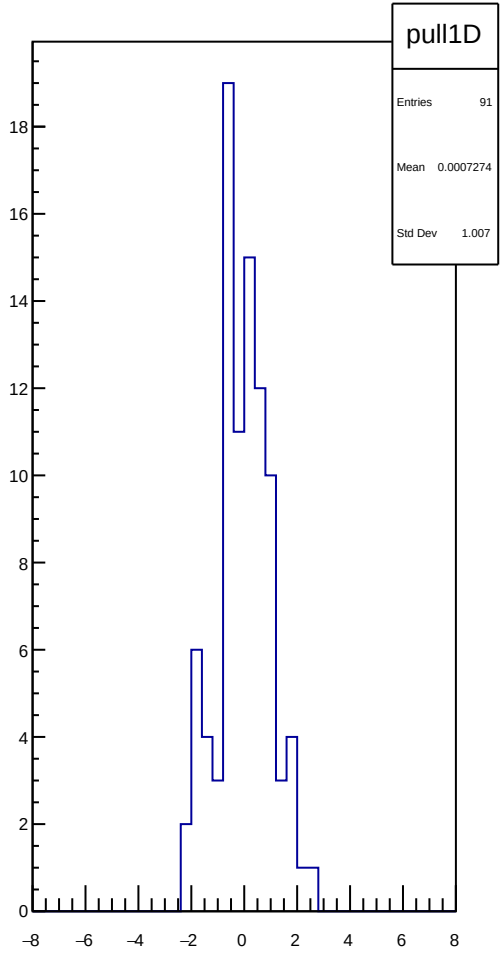

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1804 / 90
p0 1321 ± 0.9974
1500
1450
1400
1350
1300
1250


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 103.3 / 90
p0 −1.435e+04 ± 8036
×10³
pull
Entries 91
Mean −81.22
Std Dev 0


pull1D
Entries 91
Mean 0.01618
Std Dev 1.065


asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.206e+04 / 90
p0 7480 ± 5.682
11000
10000
9000
8000
7000
6000


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.31 / 90
p0 3823 ± 1411
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 2916
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.0007274
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
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−4
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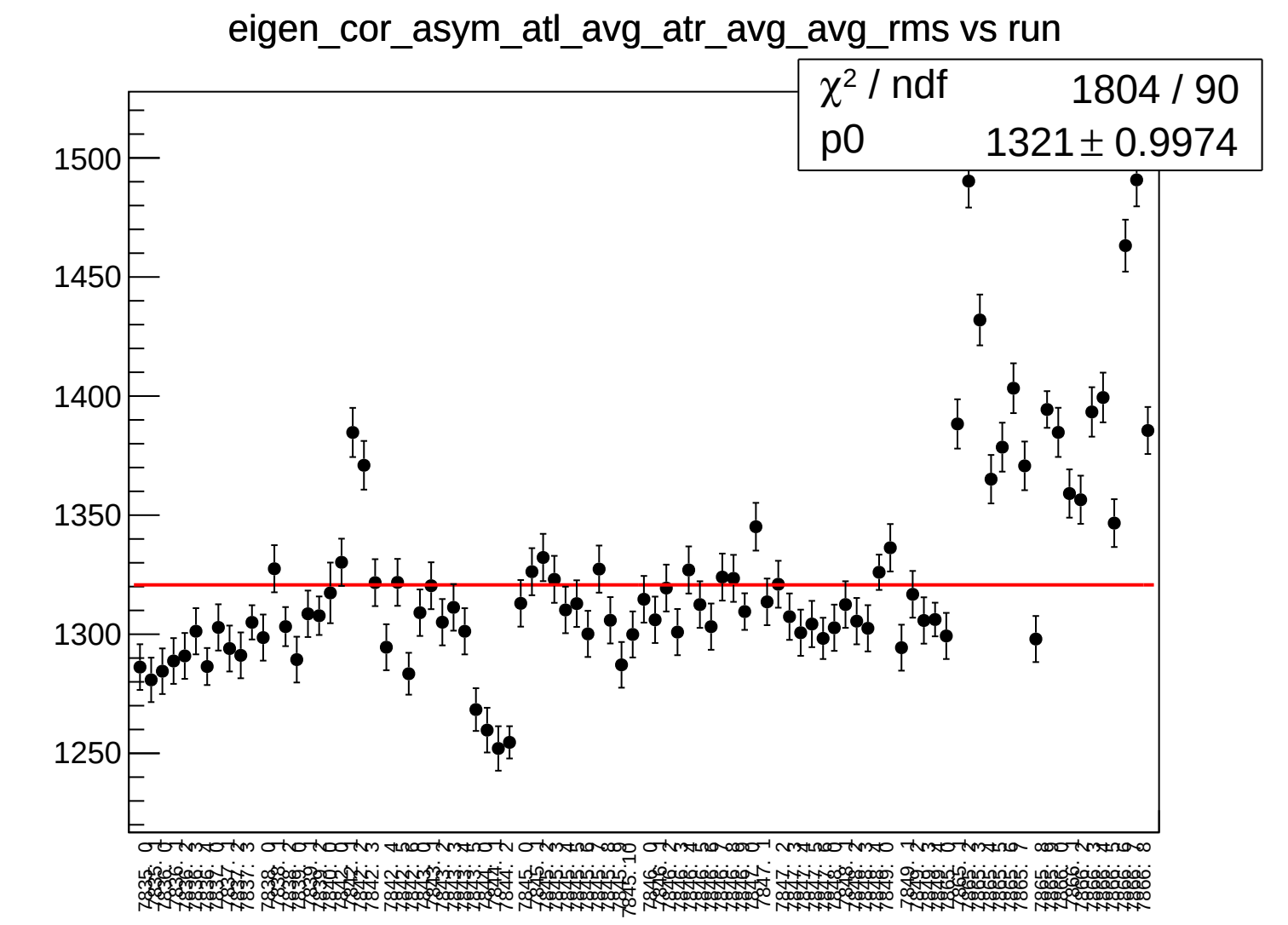
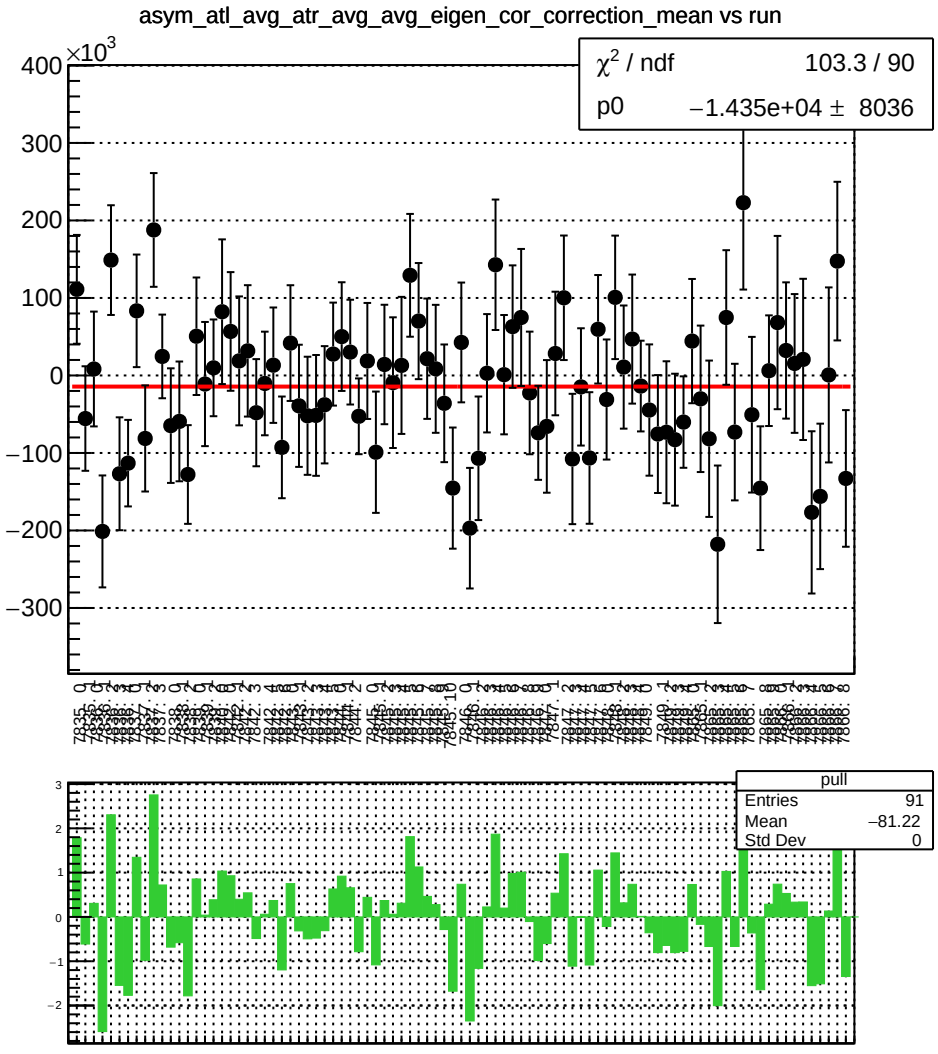
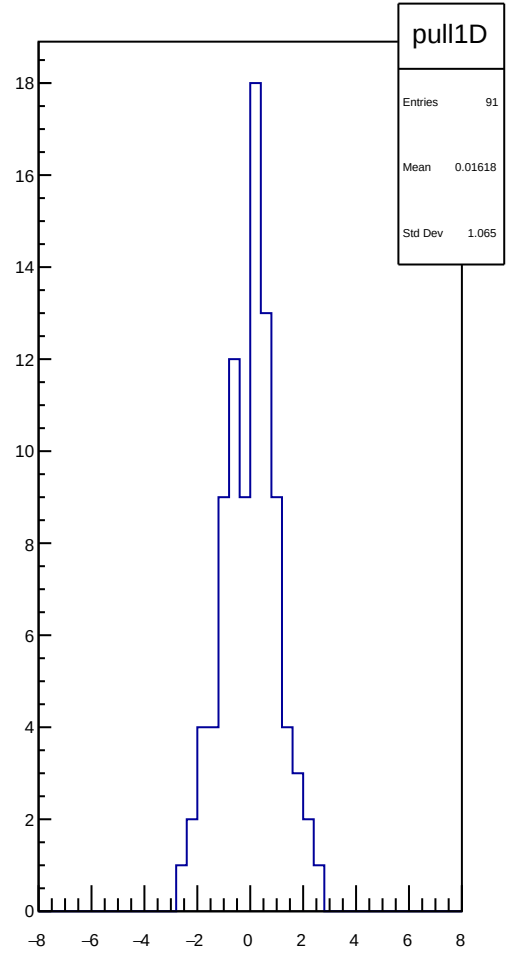
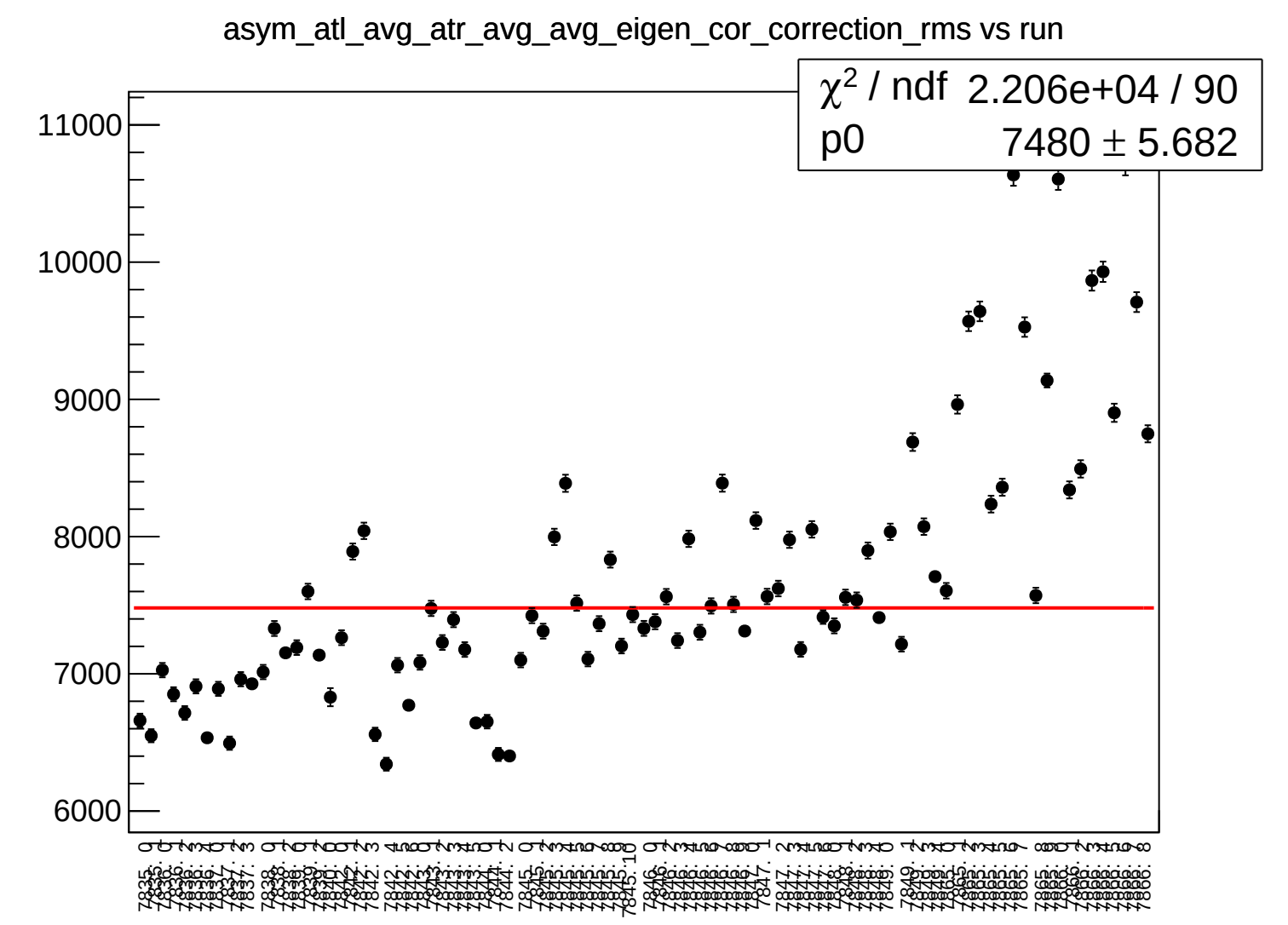
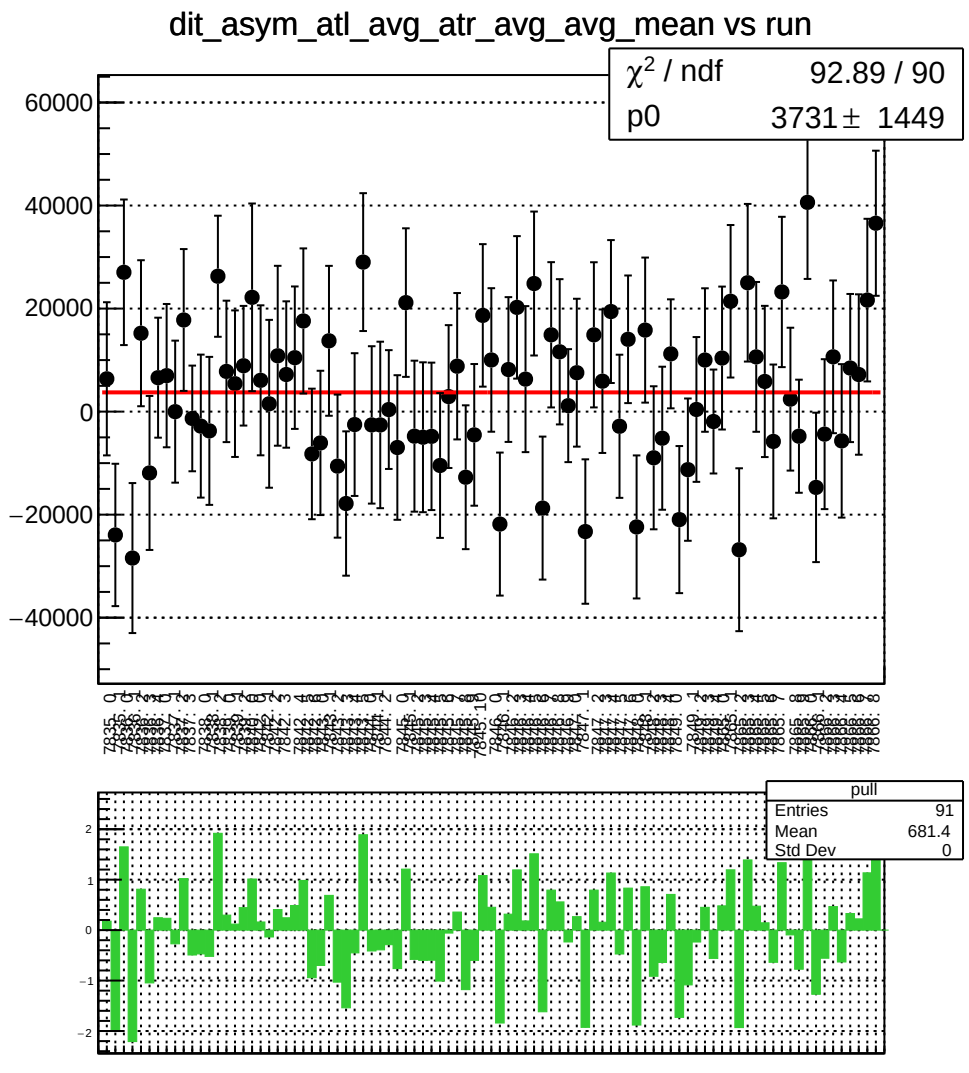
0
2
4
6
8

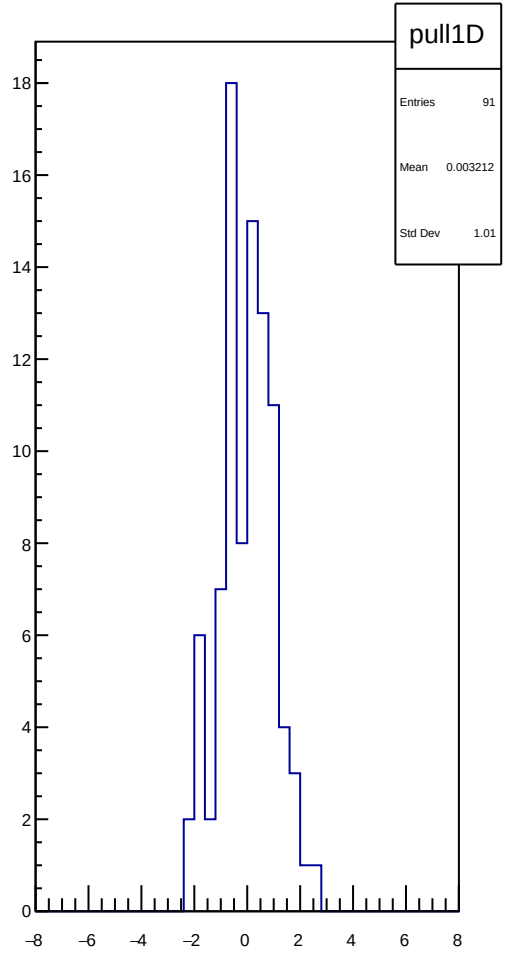

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1804 / 90
p0 1321 ± 0.9974
1500
1450
1400
1350
1300
1250

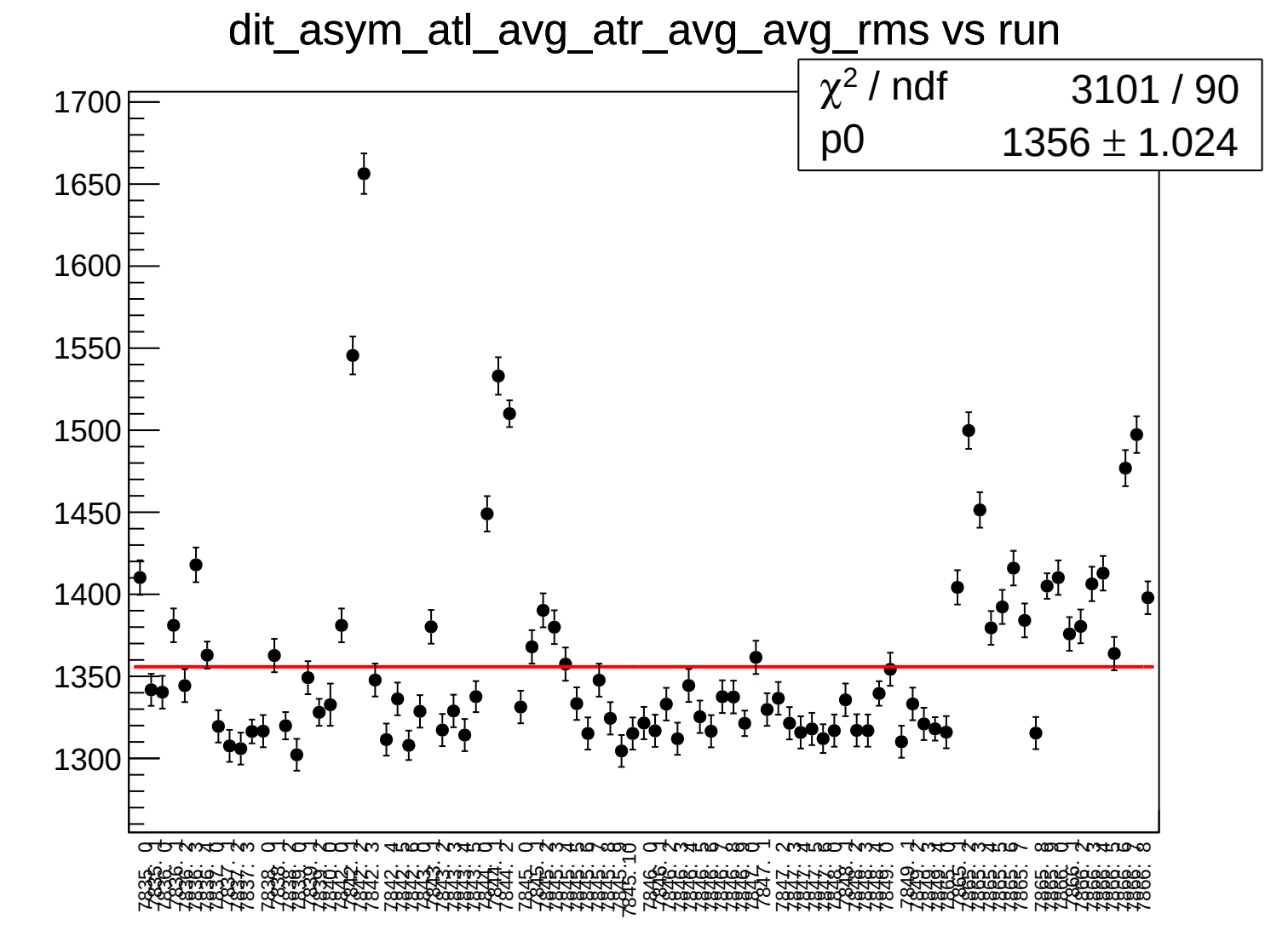

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 103.3 / 90
p0 −1.435e+04 ± 8036
pull
Entries 91
Mean −81.22
Std Dev 0
3
2
1
0
−1
−2

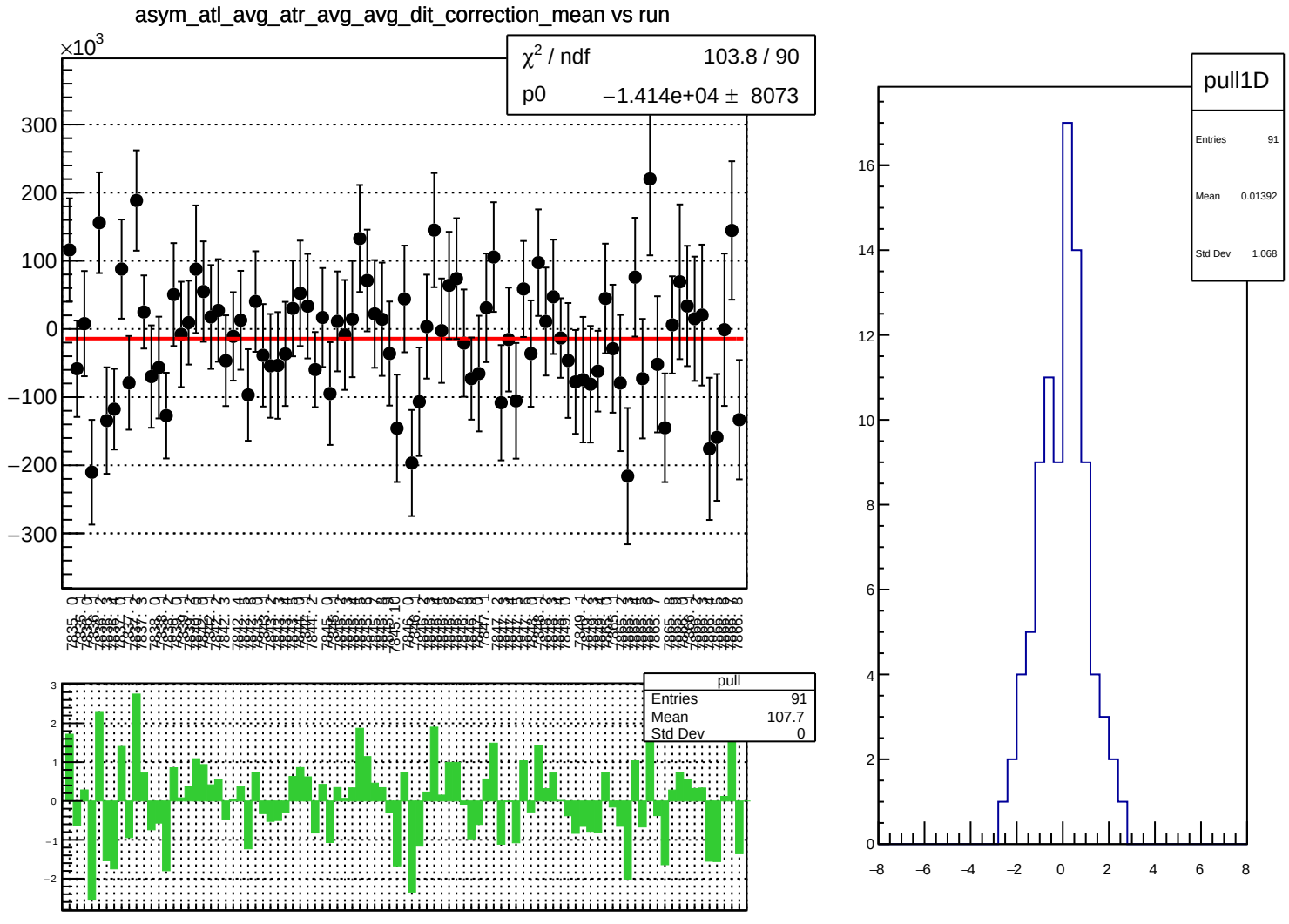

pull1D
Entries 91
Mean 0.01618
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

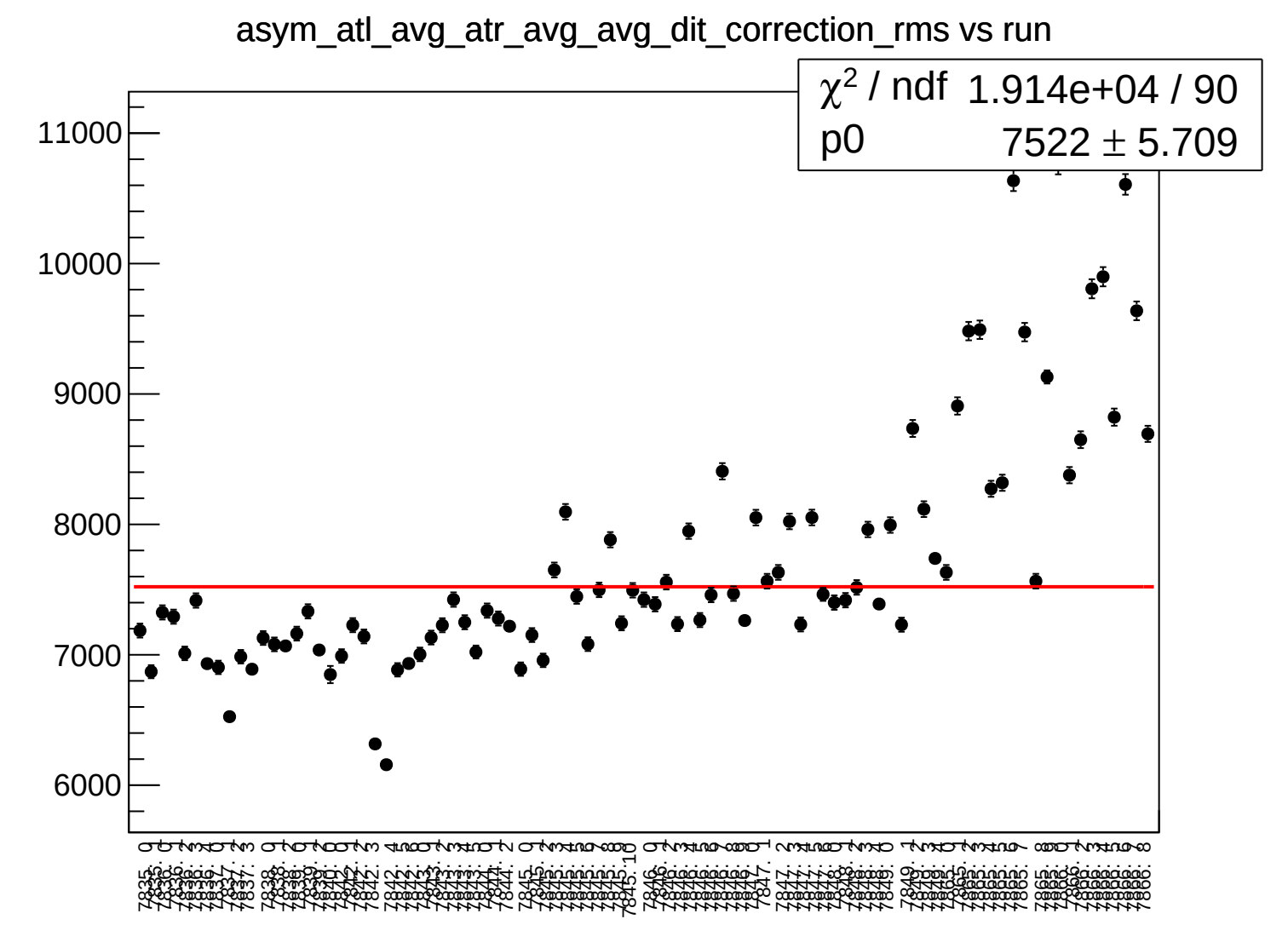

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.206e+04 / 90
p0 7480 ± 5.682
11000
10000
9000
8000
7000
6000

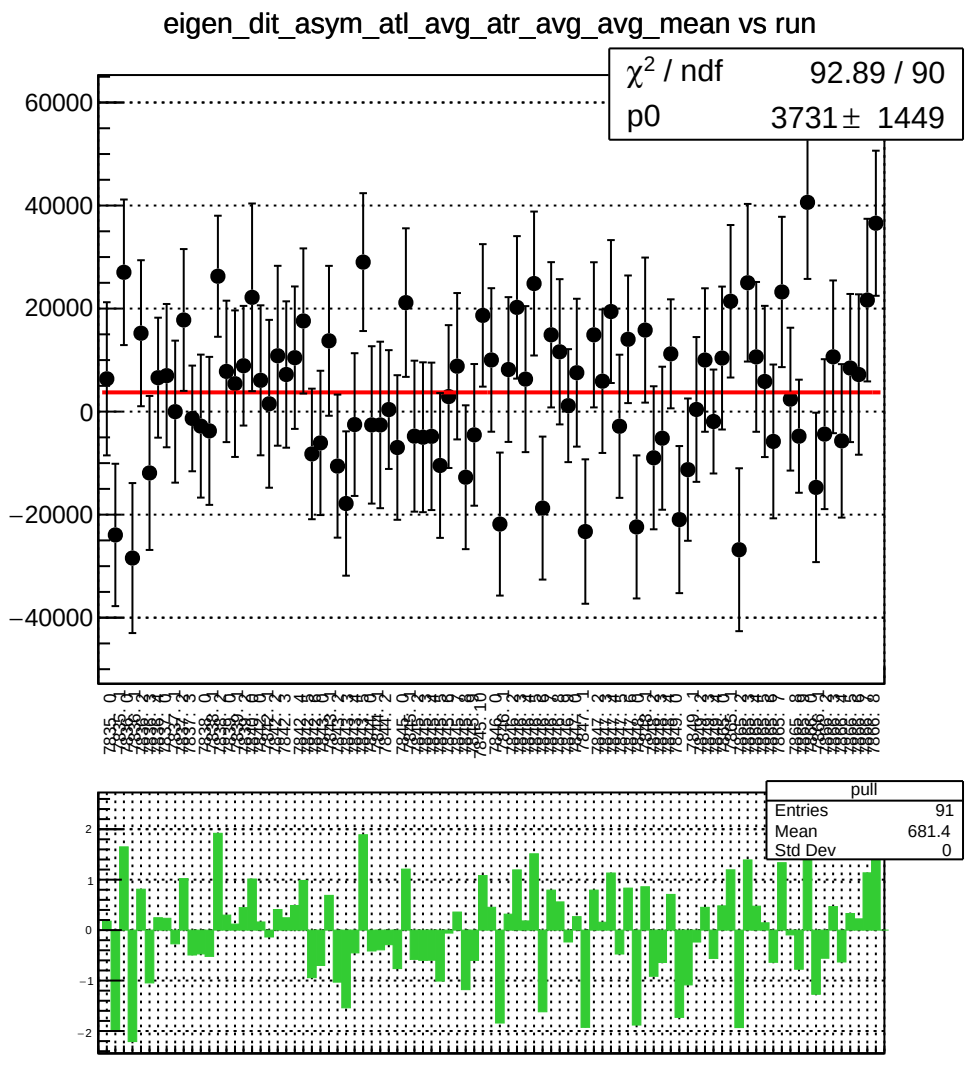

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.89 / 90
p0 3731 ± 1449
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 681.4
Std Dev 0
2
1
0
−1
−2

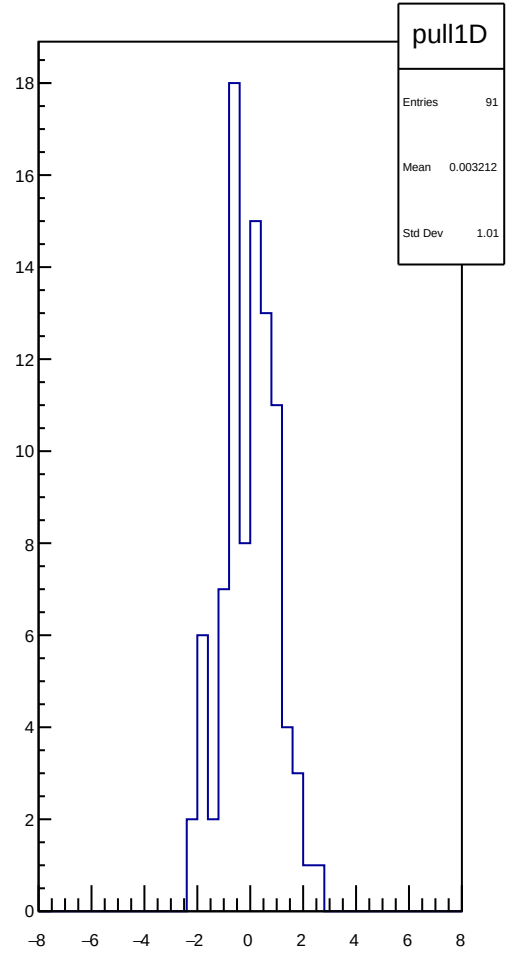

pull1D
Entries 91
Mean 0.003212
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

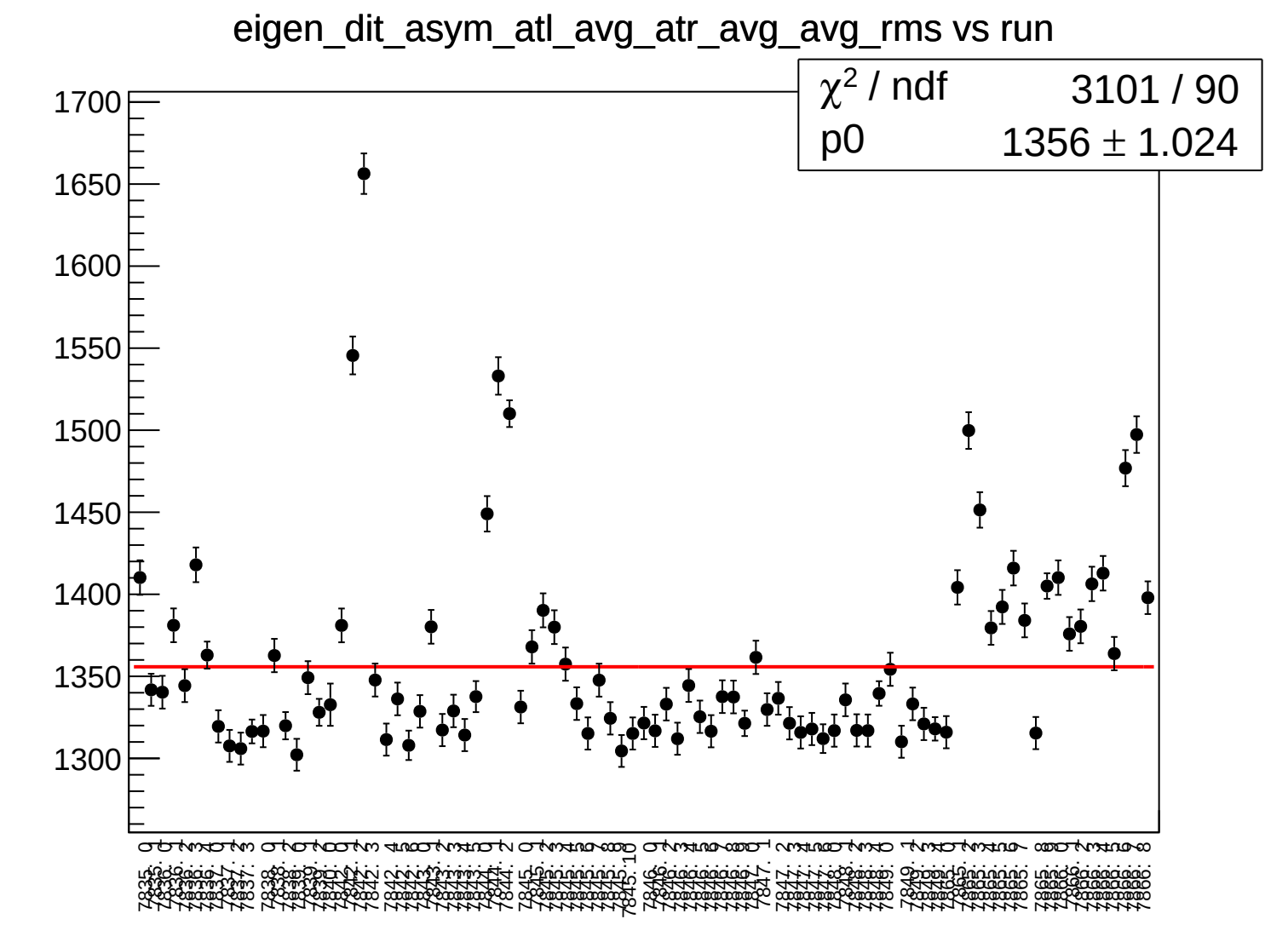

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3101 / 90
p0 1356 ± 1.024
1700
1650
1600
1550
1500
1450
1400
1350
1300

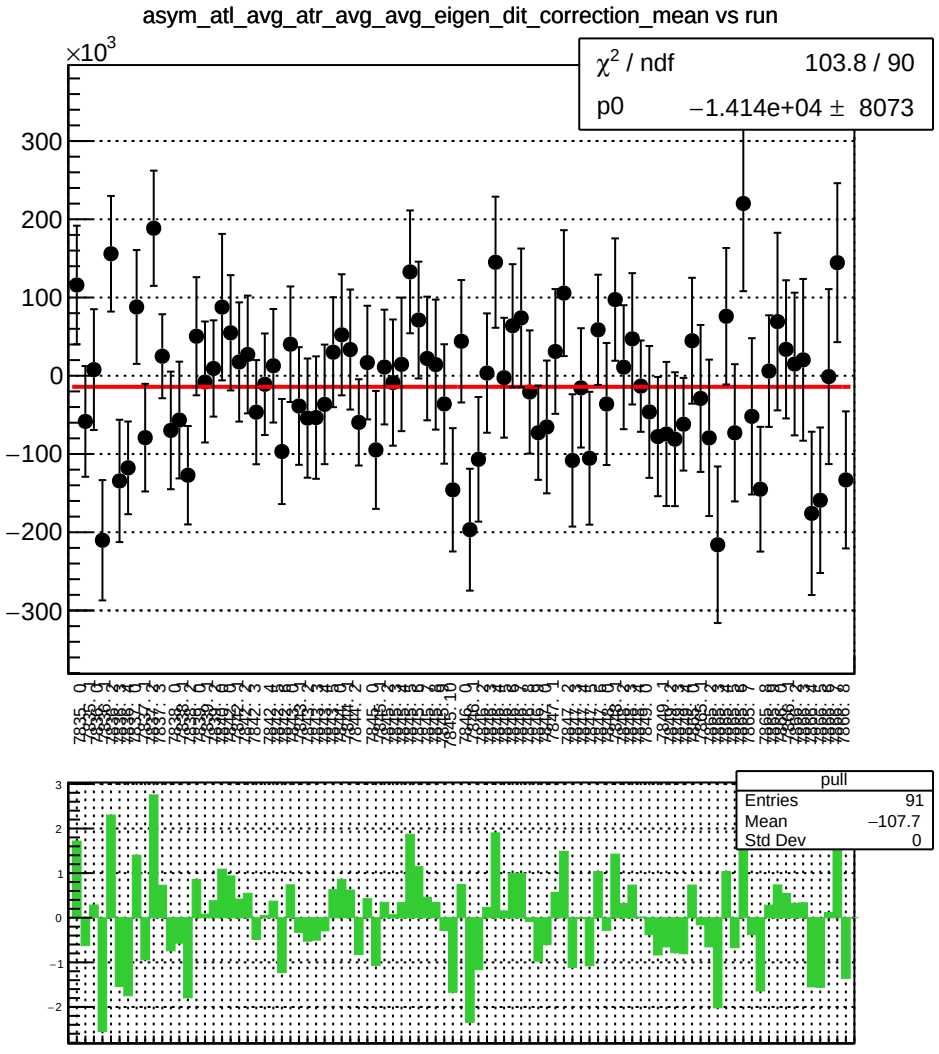

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.8 / 90
p0 −1.414e+04 ± 8073
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −107.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01392
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

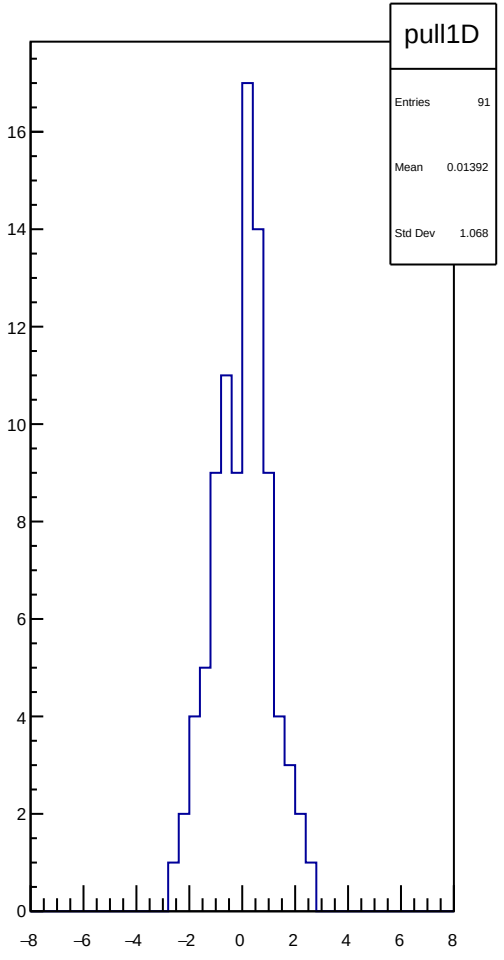

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.914e+04 / 90
p0 7522 ± 5.709
11000
10000
9000
8000
7000
6000

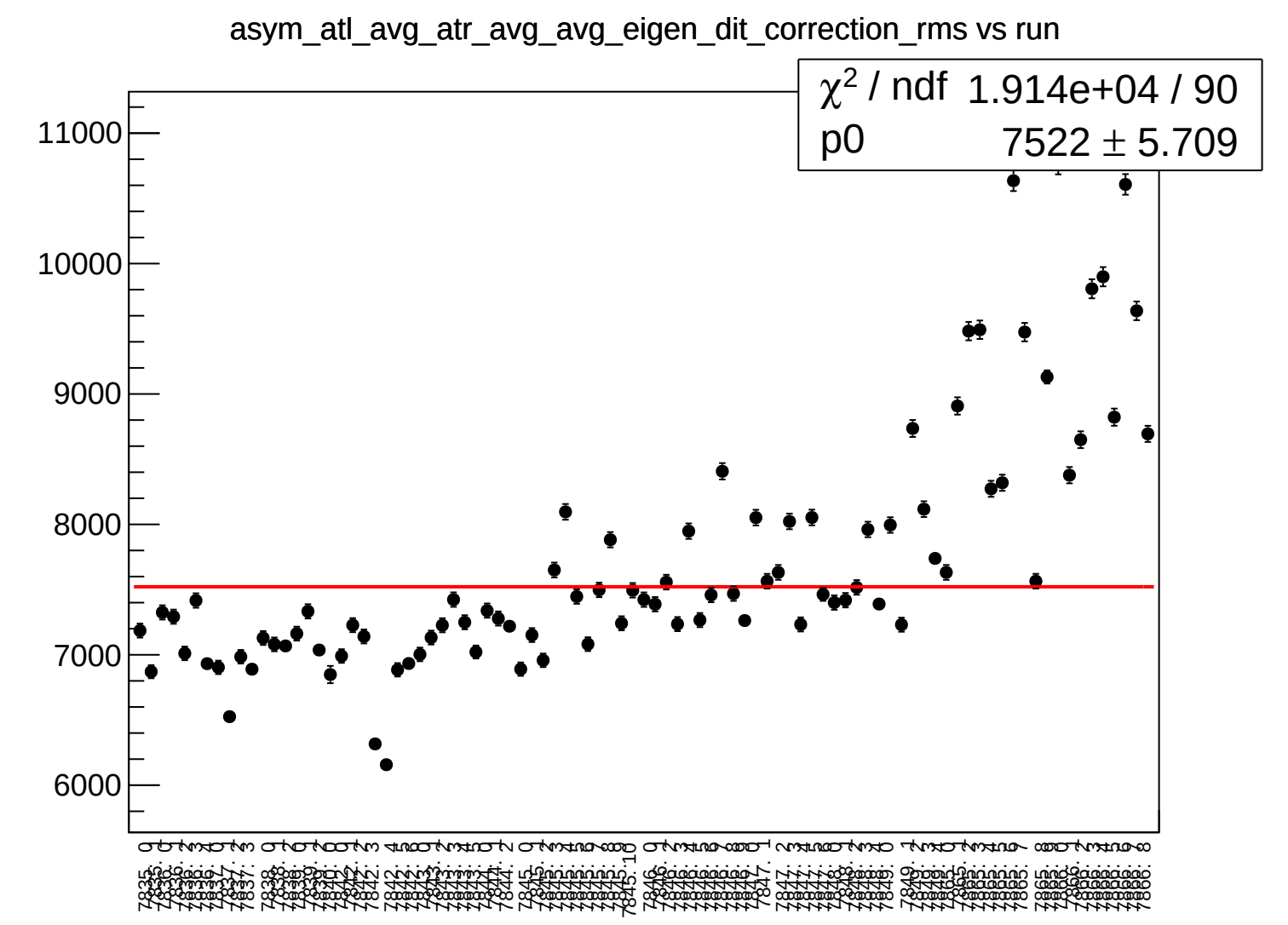

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.89 / 90
p0 3731 ± 1449
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 681.4
Std Dev 0
2
1
0
−1
−2

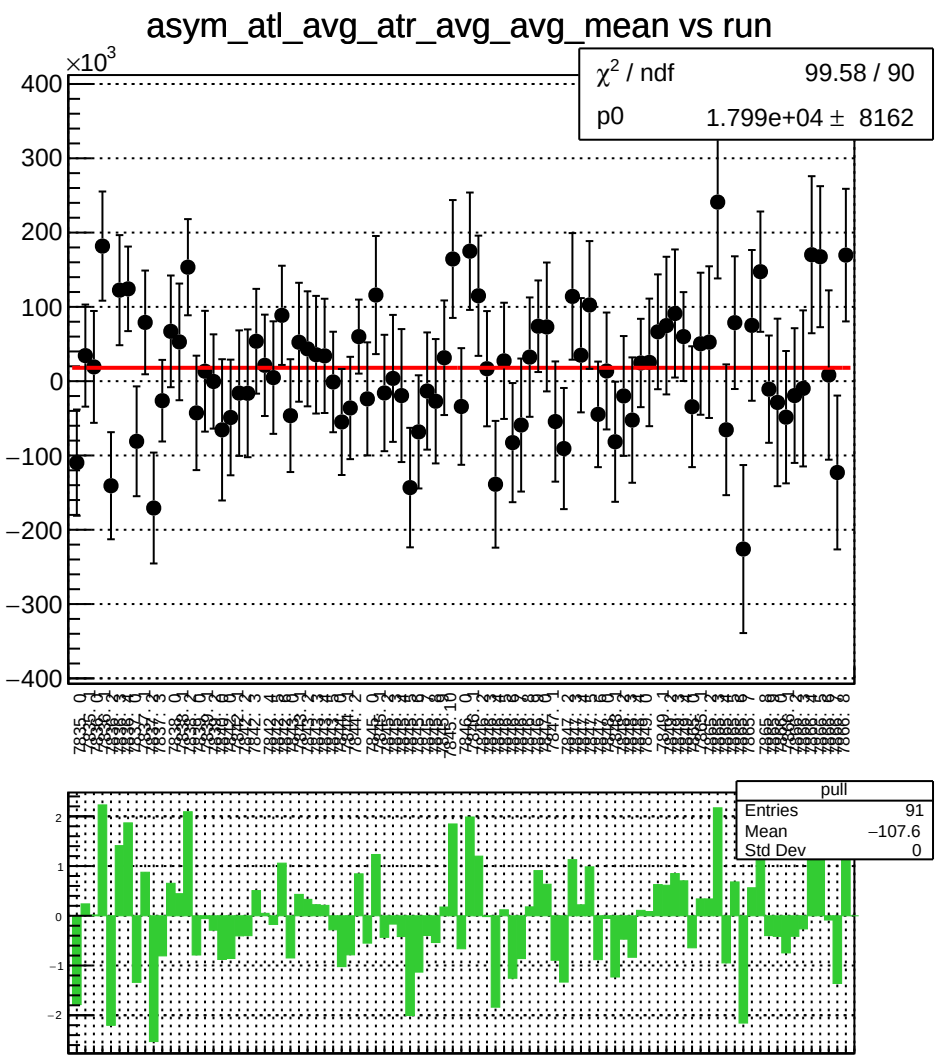

pull1D
Entries 91
Mean 0.003212
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

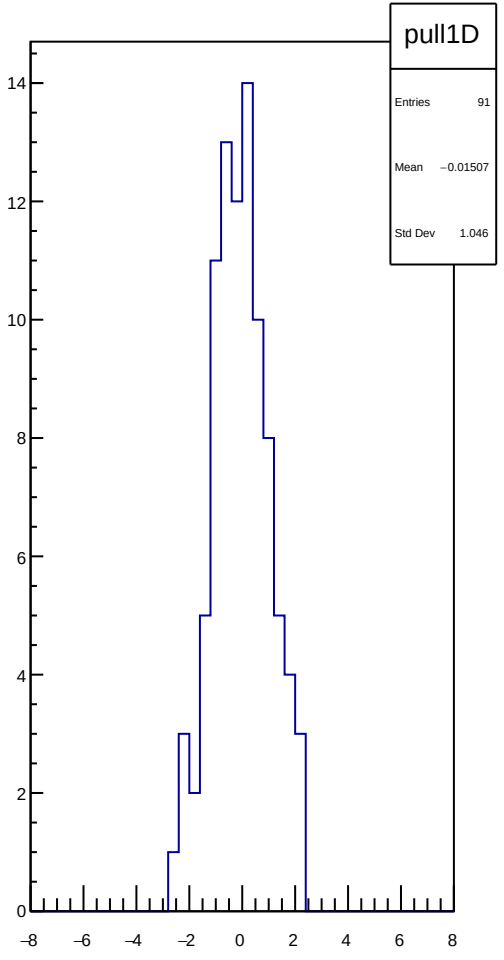

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3101 / 90
p0 1356 ± 1.024
1700
1650
1600
1550
1500
1450
1400
1350
1300

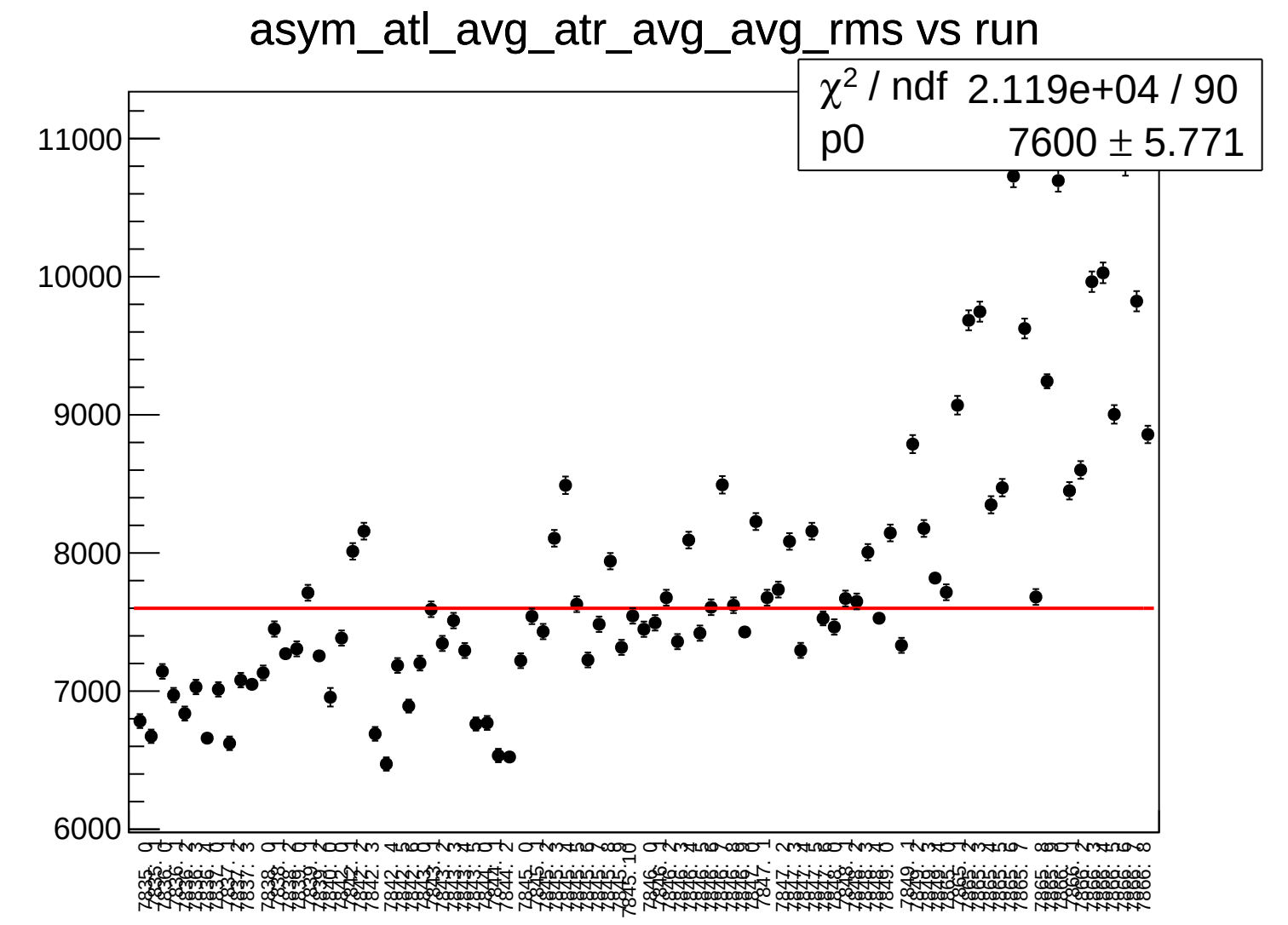

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.8 / 90
p0 −1.414e+04 ± 8073
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −107.7
Std Dev 0
3
2
1
0
−1
−2

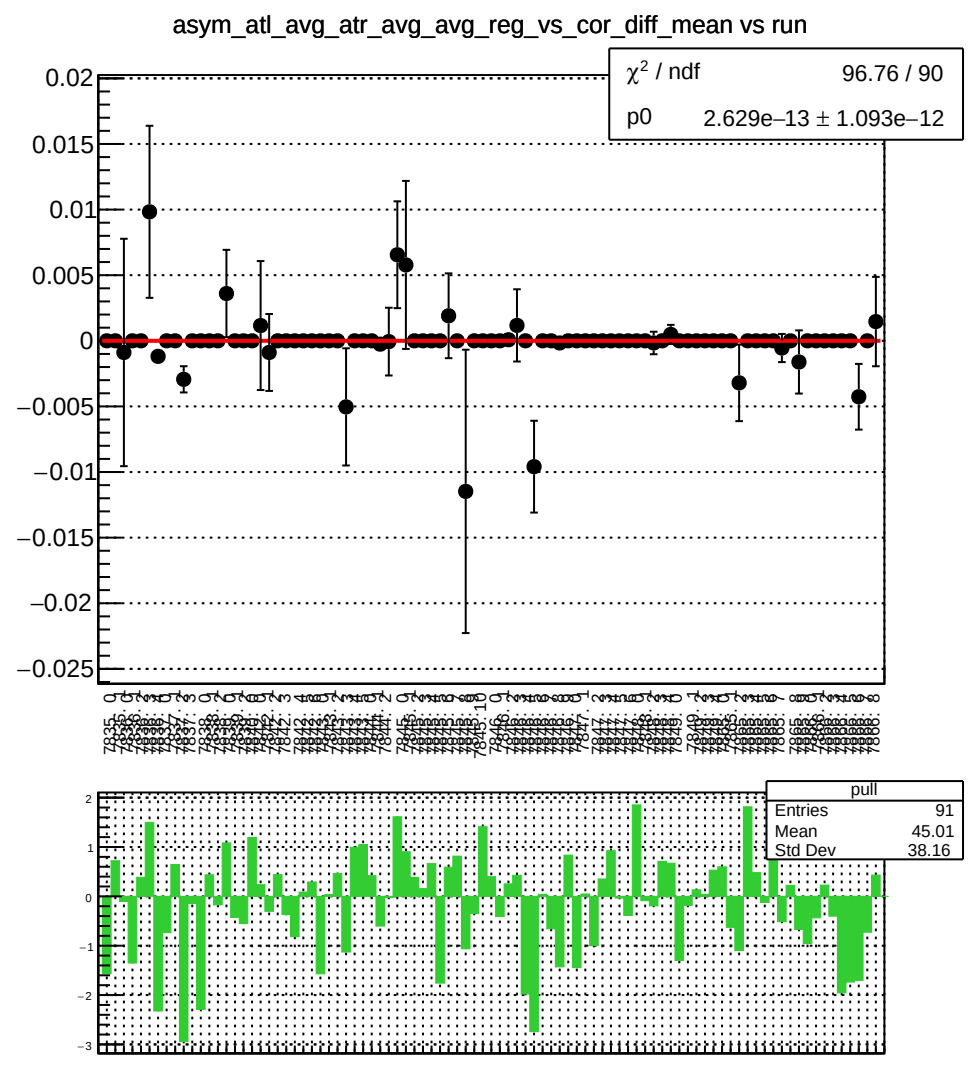

pull1D
Entries 91
Mean 0.01392
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

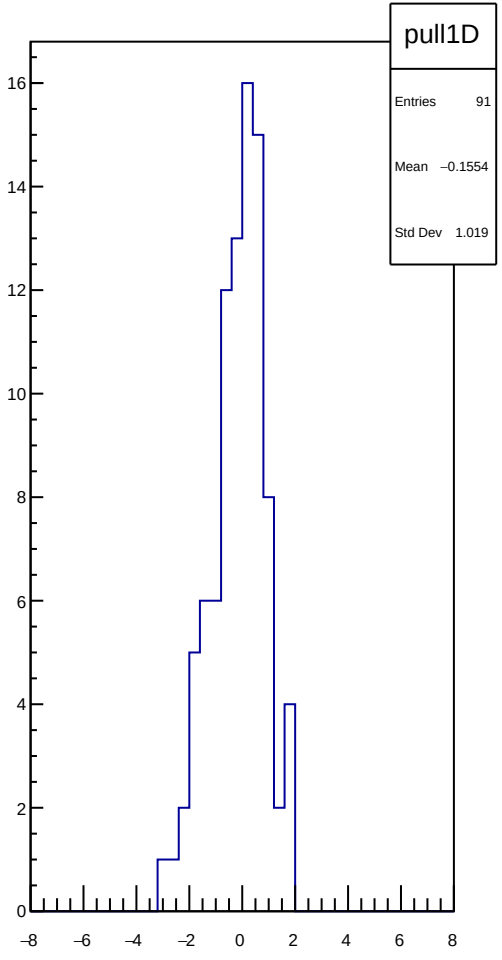

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.914e+04 / 90
p0 7522 ± 5.709
11000
10000
9000
8000
7000
6000

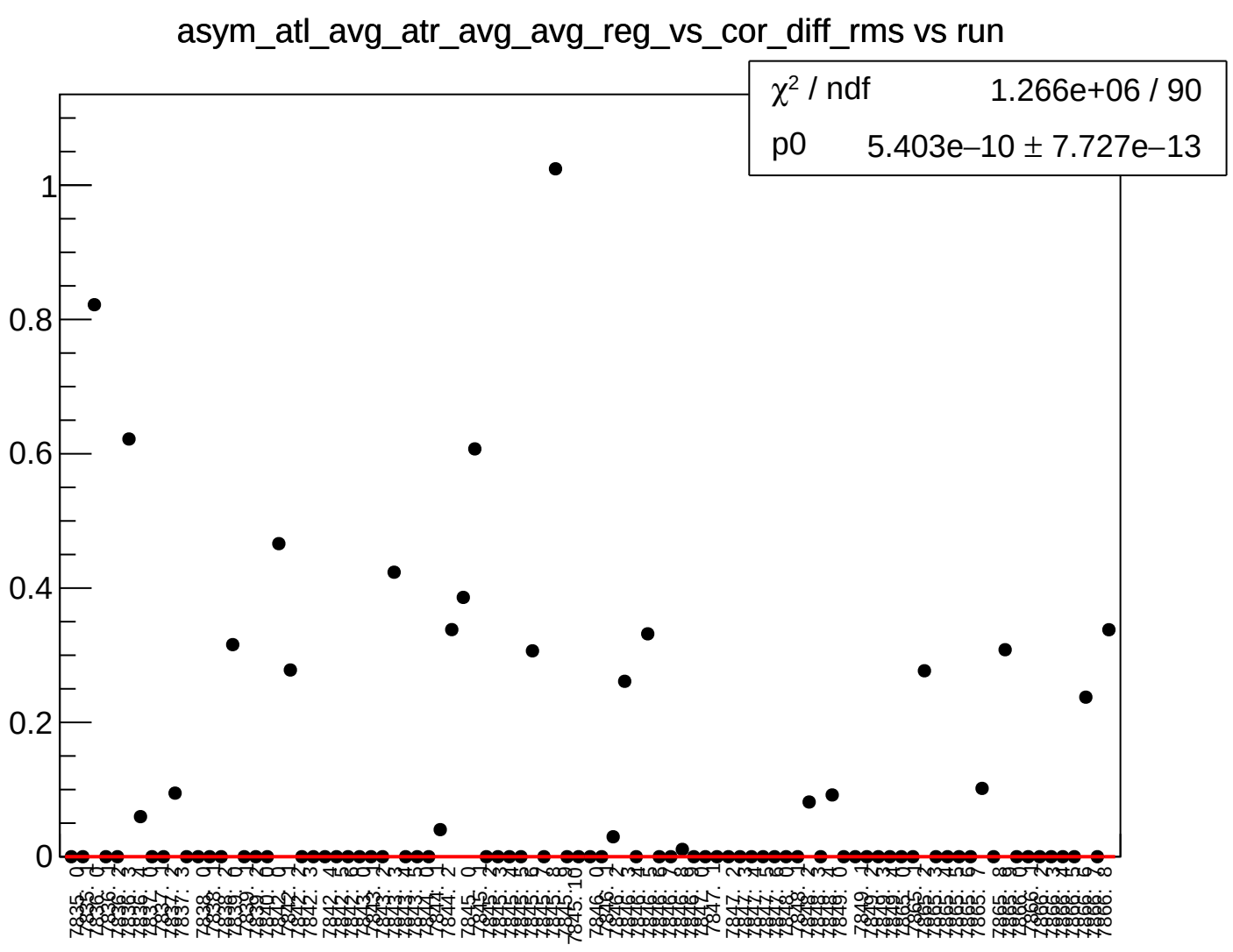

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 99.58 / 90
p0 1.799e+04 ± 8162
pull
Entries 91
Mean −107.6
Std Dev 0

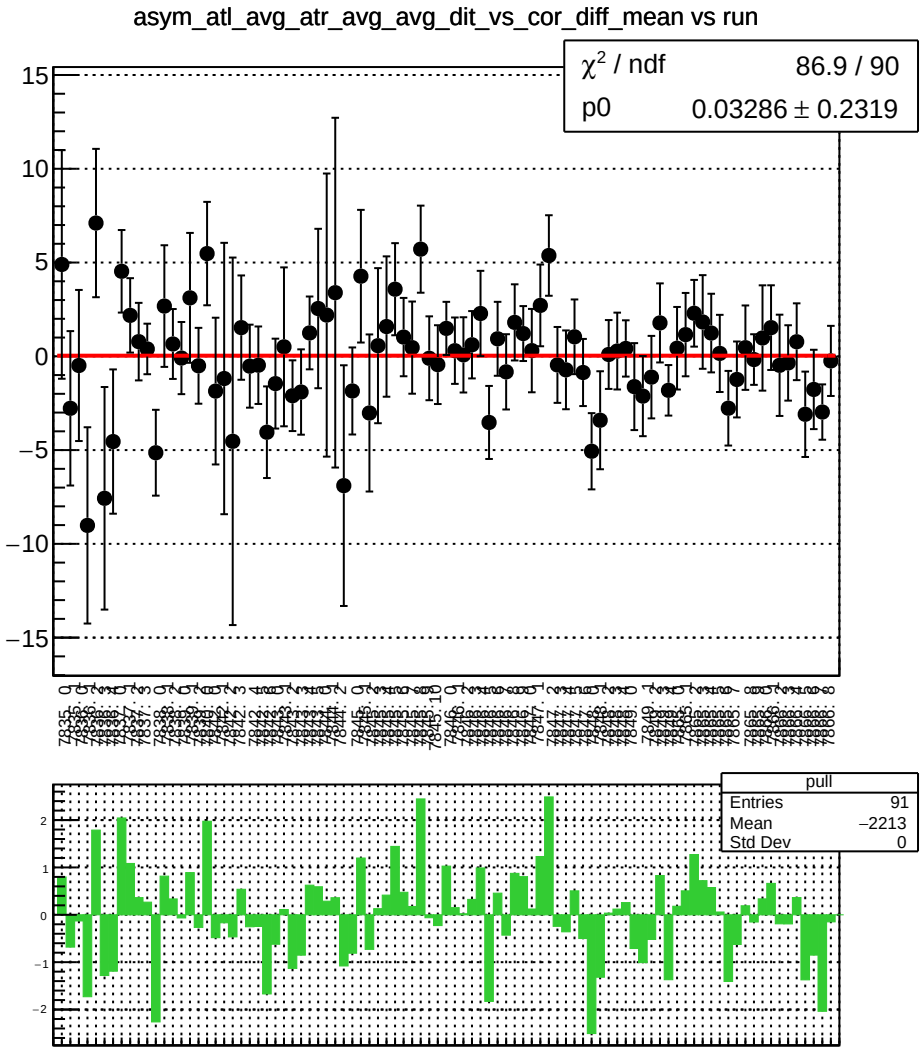

pull1D
Entries 91
Mean −0.01507
Std Dev 1.046

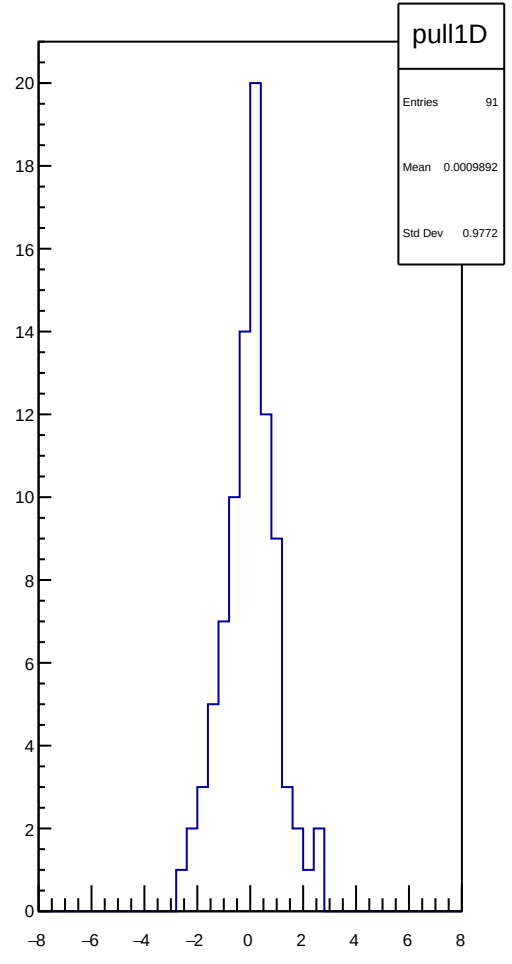

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.119e+04 / 90
p0 7600 ± 5.771
11000
10000
9000
8000
7000
6000

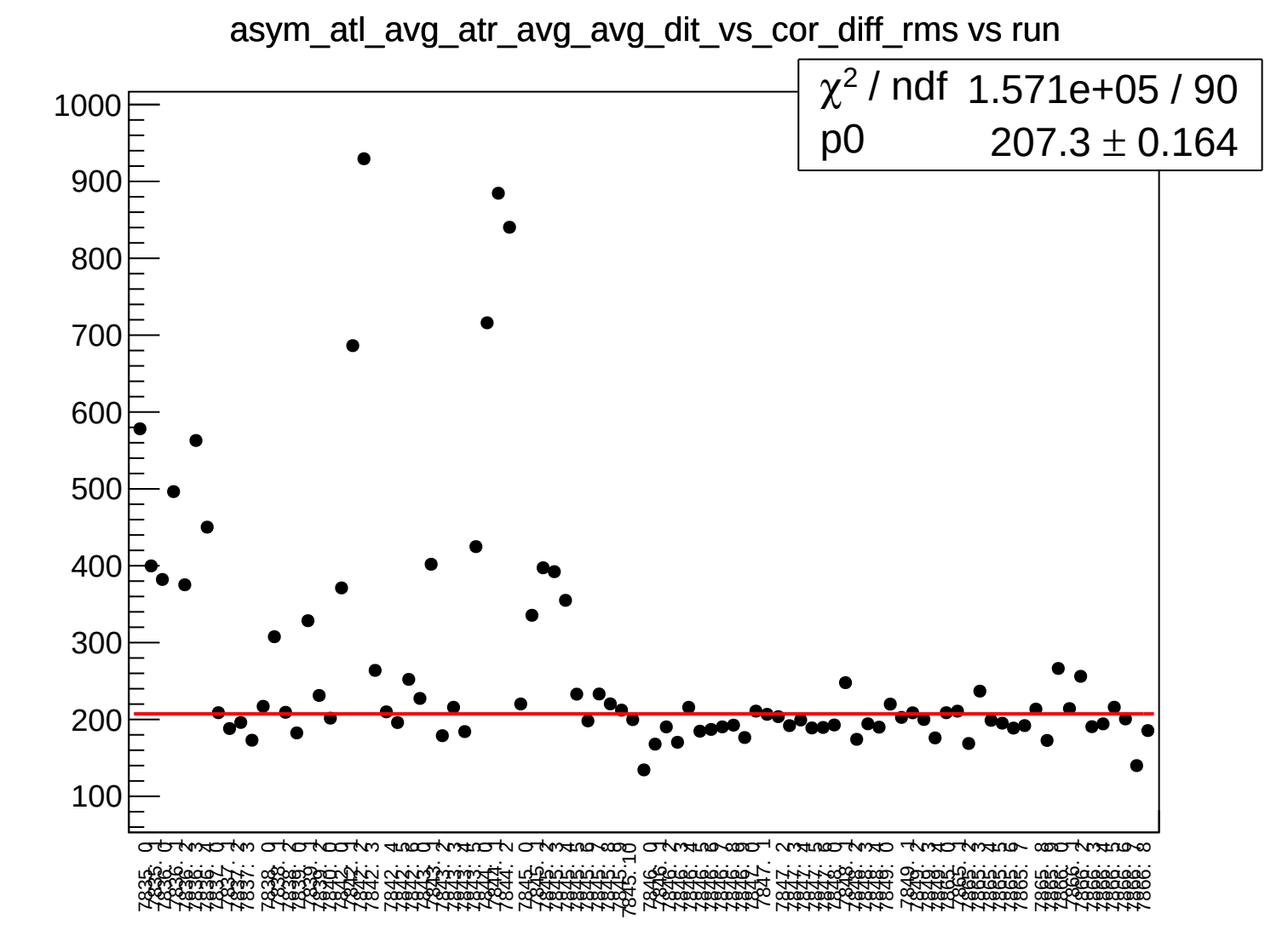

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.76 / 90
p0 2.629e−13 ± 1.093e−12
pull
Entries 91
Mean 45.01
Std Dev 38.16

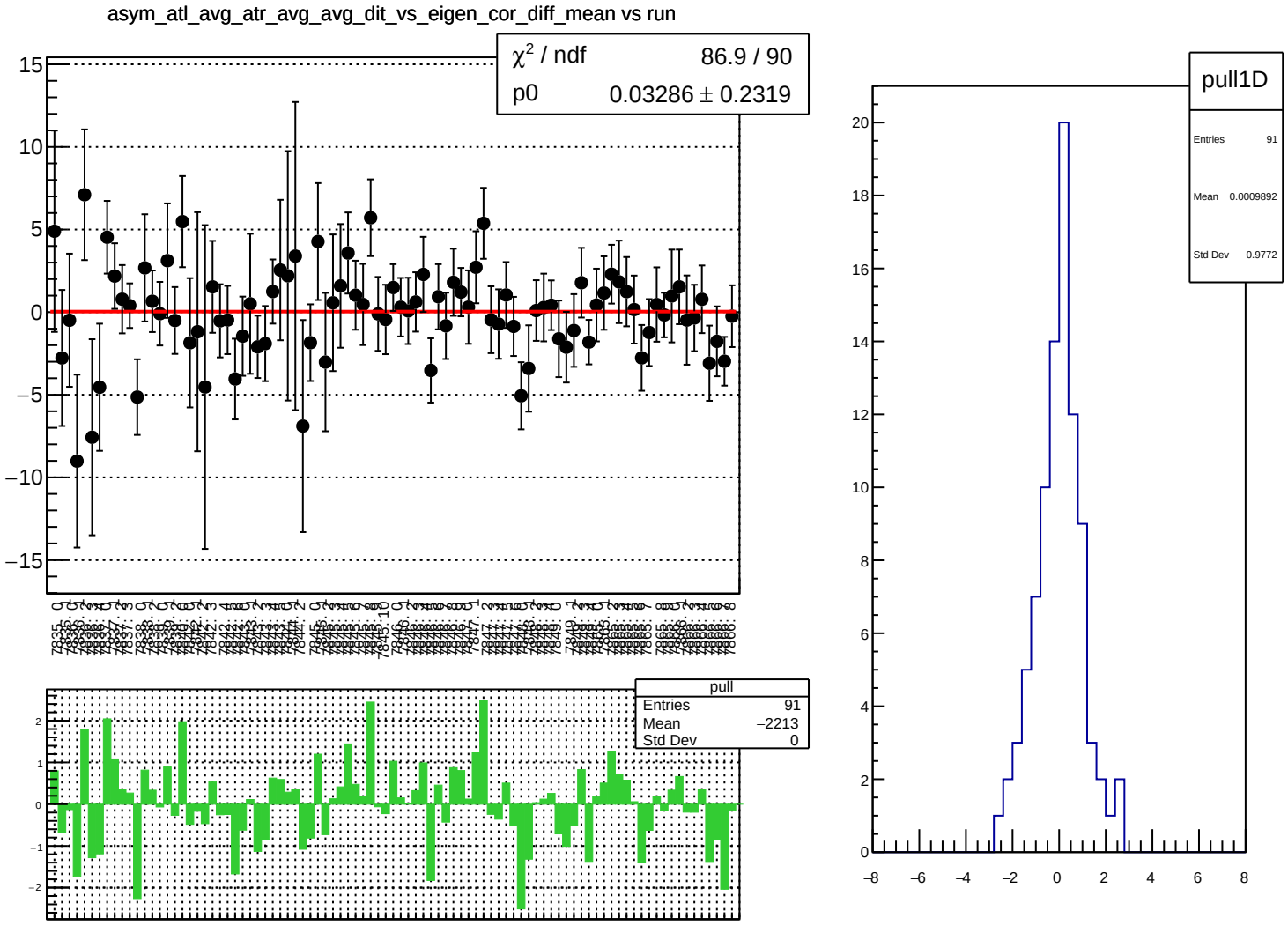

pull1D
Entries 91
Mean −0.1554
Std Dev 1.019

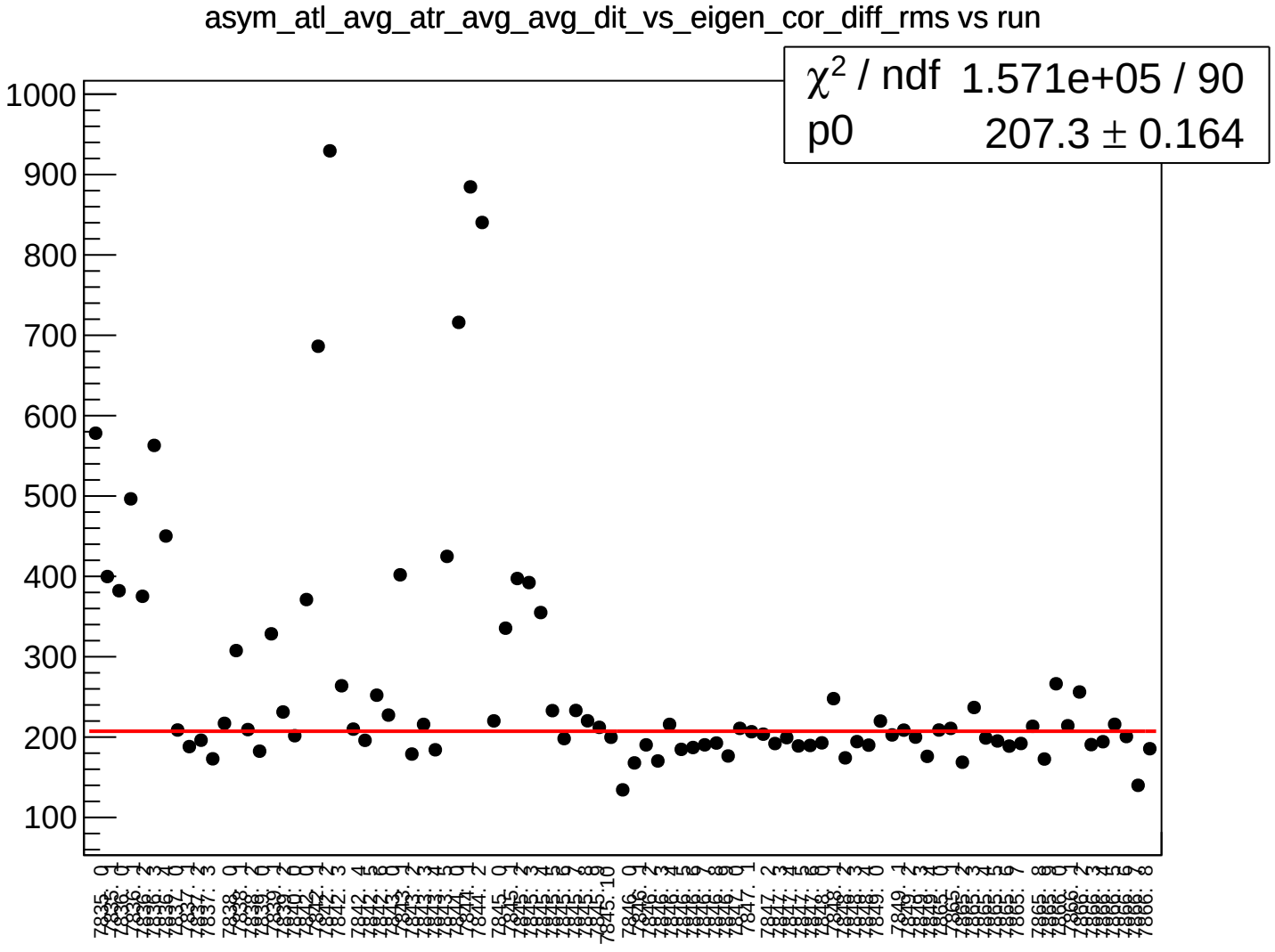

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 90
p0 5.403e−10 ± 7.727e−13
1
0.8
0.6
0.4
0.2
0

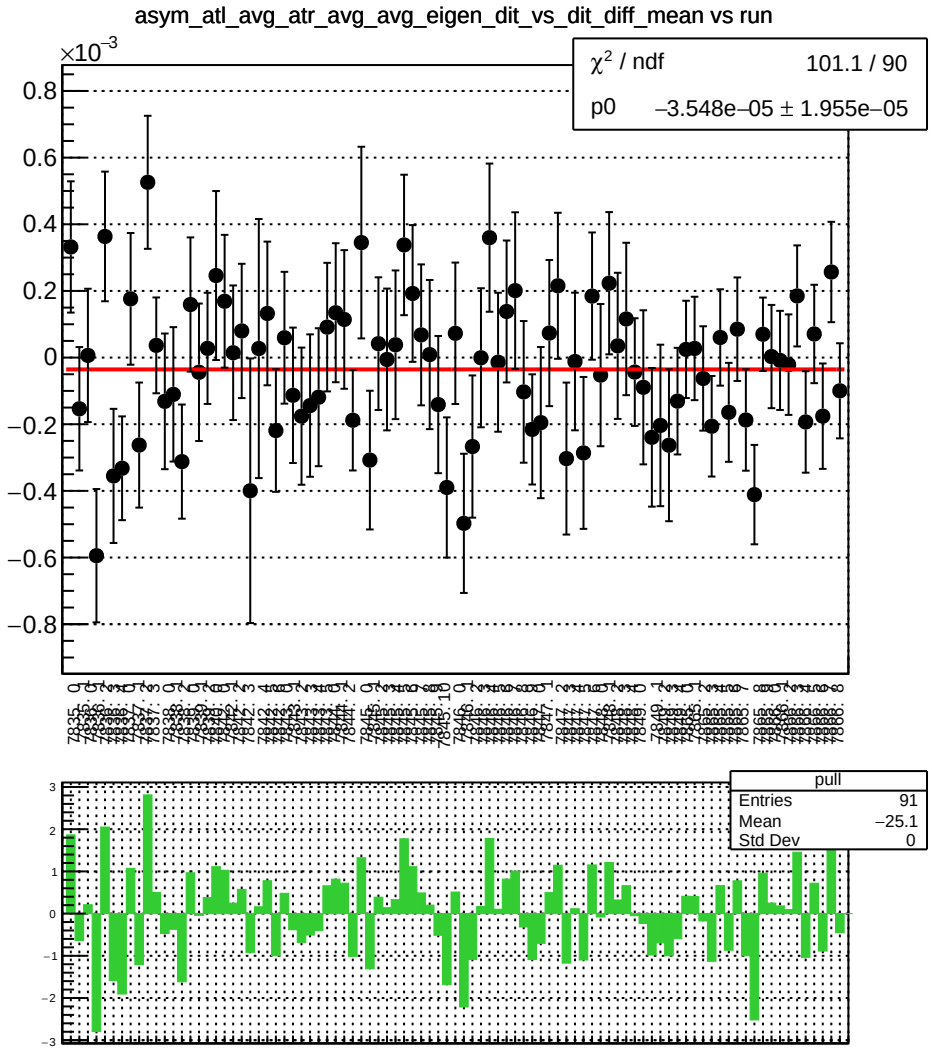

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.9 / 90
p0 0.03286 ± 0.2319
pull
Entries 91
Mean −2213
Std Dev 0

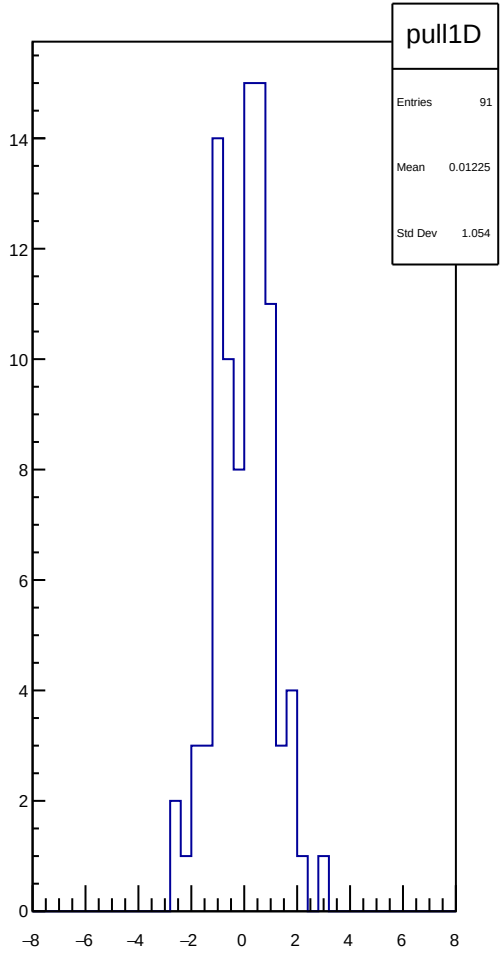

pull1D
Entries 91
Mean 0.0009892
Std Dev 0.9772

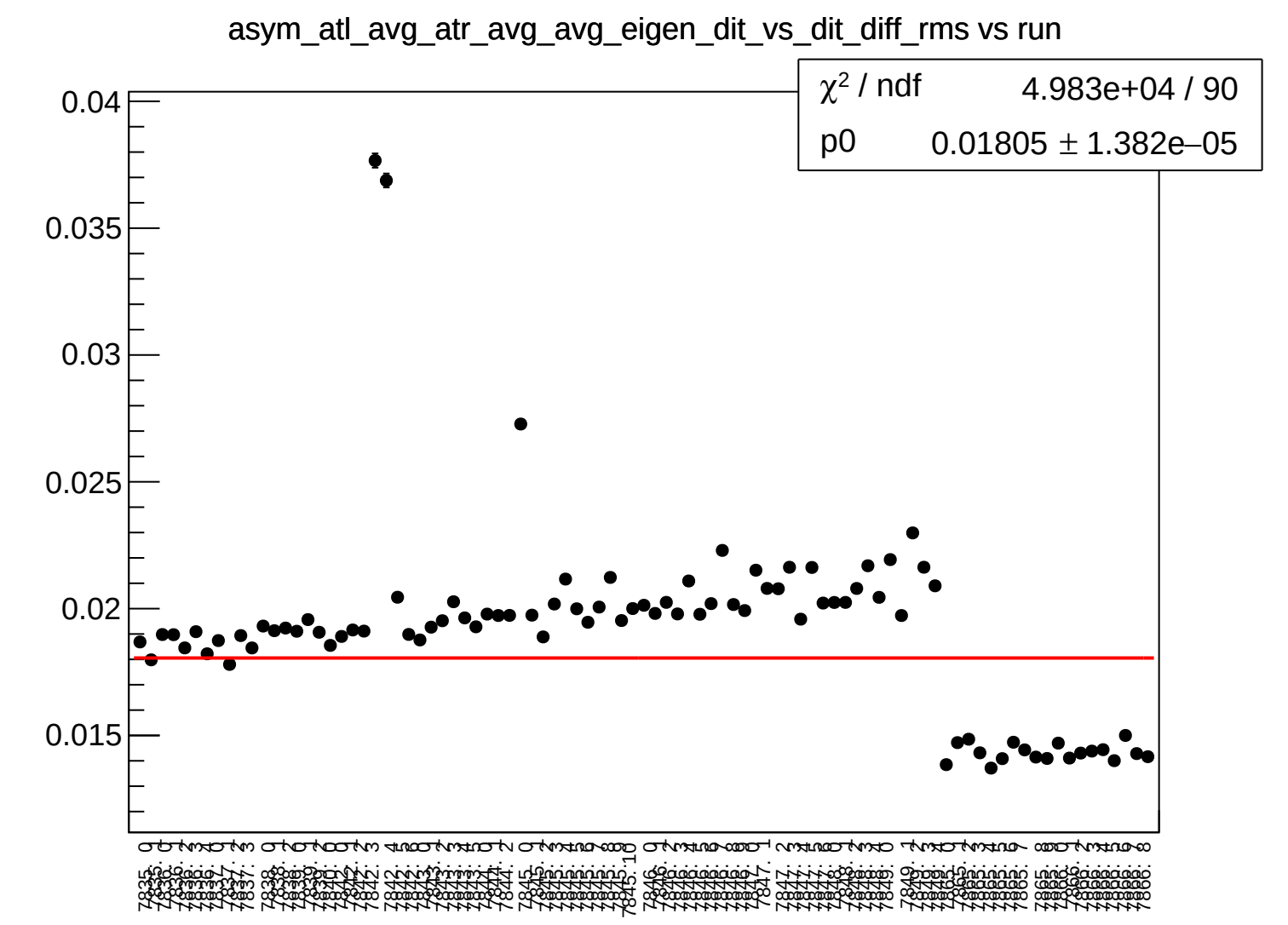

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 90
p0 207.3 ± 0.164
1000
900
800
700
600
500
400
300
200
100

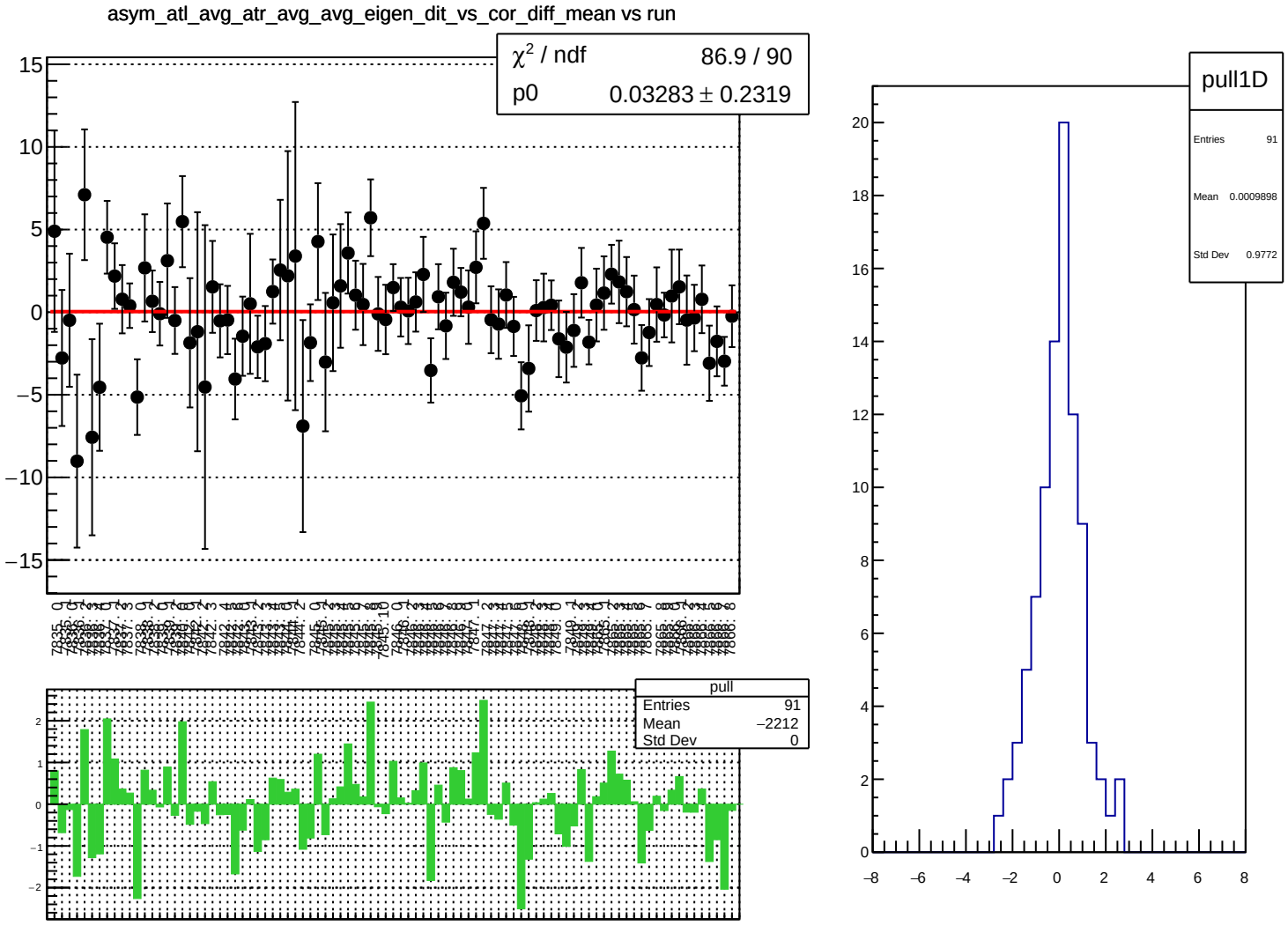

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.9 / 90
p0 0.03286 ± 0.2319
pull
Entries 91
Mean −2213
Std Dev 0
pull1D
Entries 91
Mean 0.0009892
Std Dev 0.9772

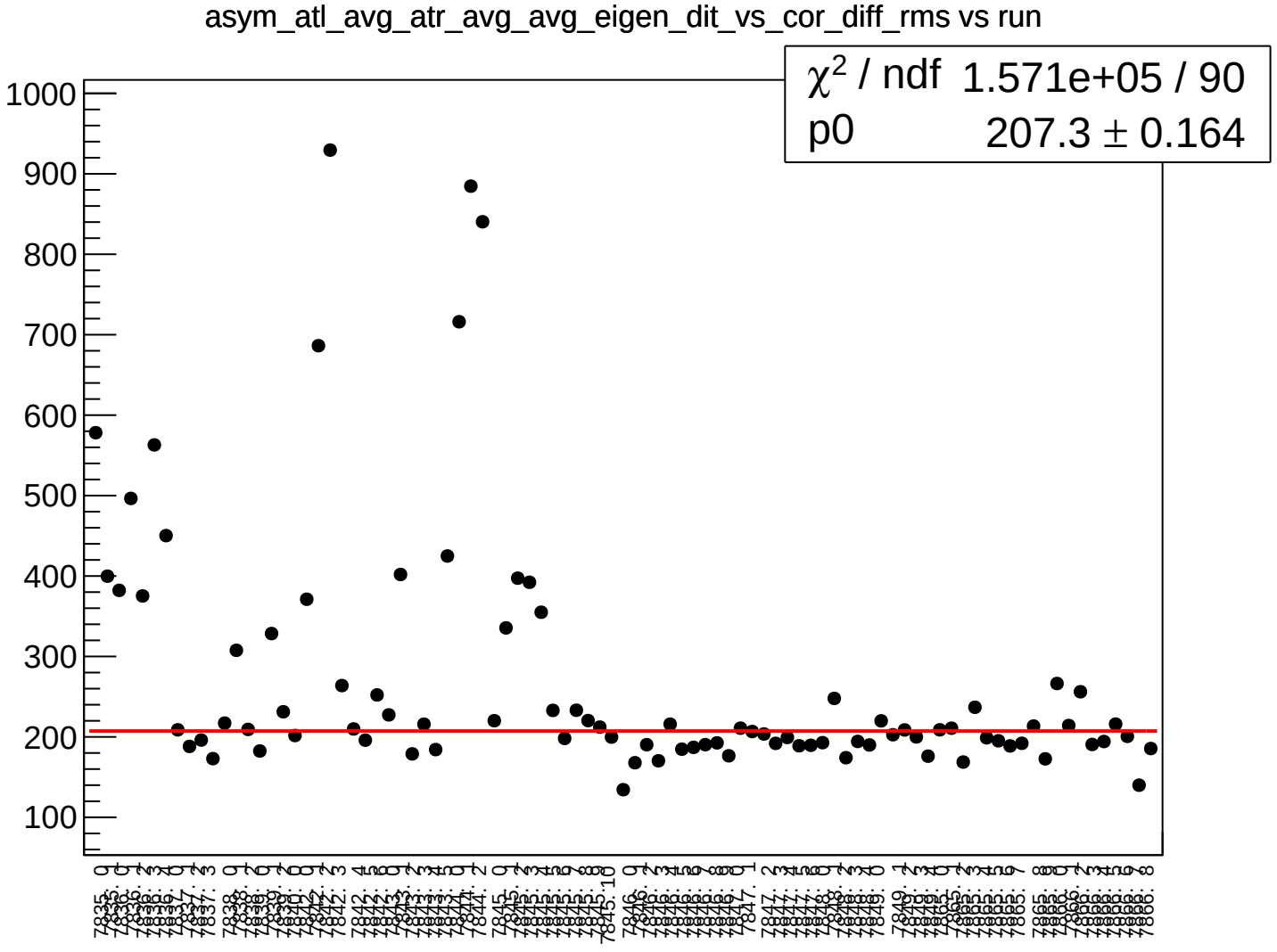

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 90
p0 207.3 ± 0.164
1000
900
800
700
600
500
400
300
200
100

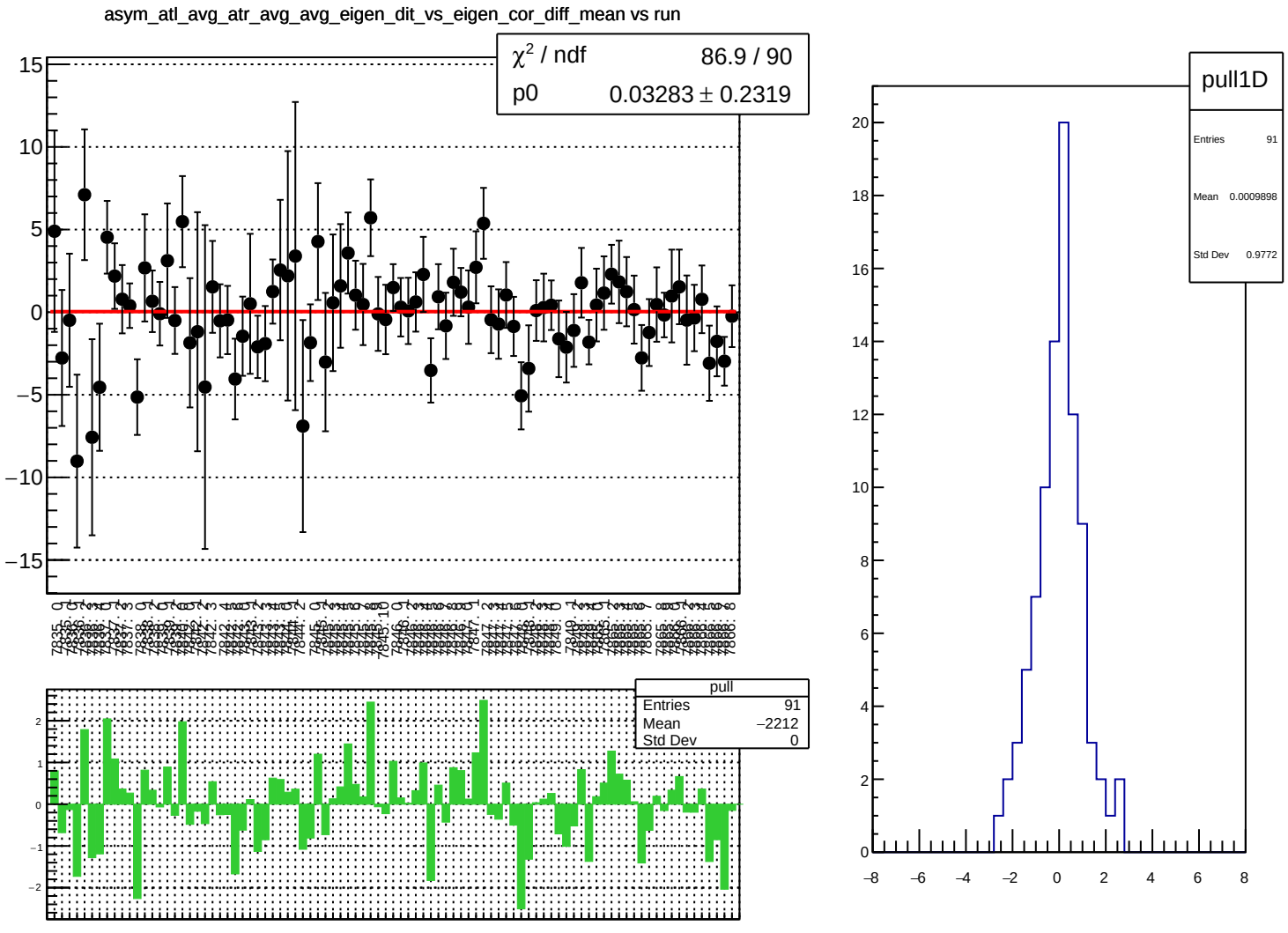

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 90
p0 −3.548e−05 ± 1.955e−05
pull
Entries 91
Mean −25.1
Std Dev 0

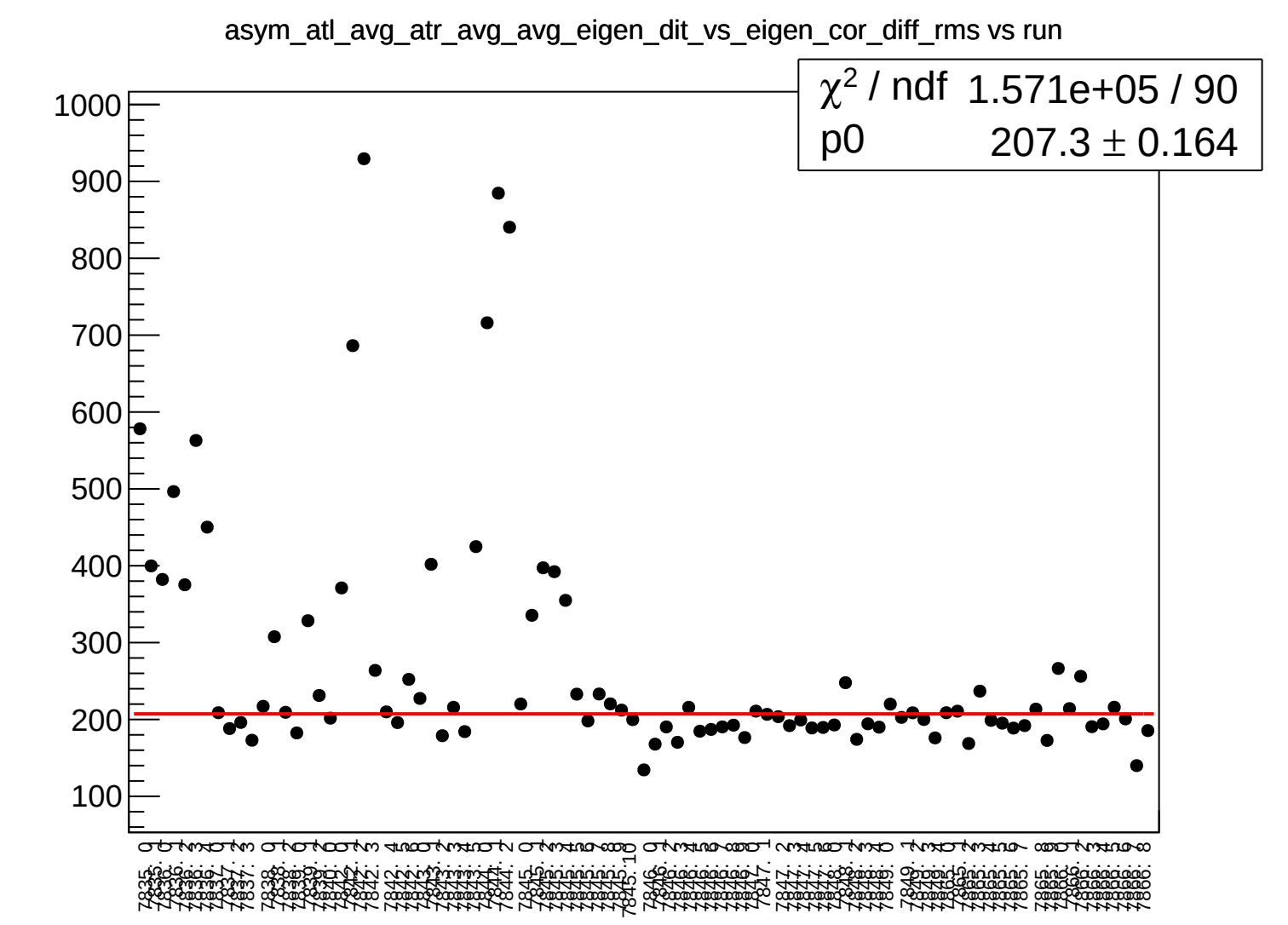

pull1D
Entries 91
Mean 0.01225
Std Dev 1.054

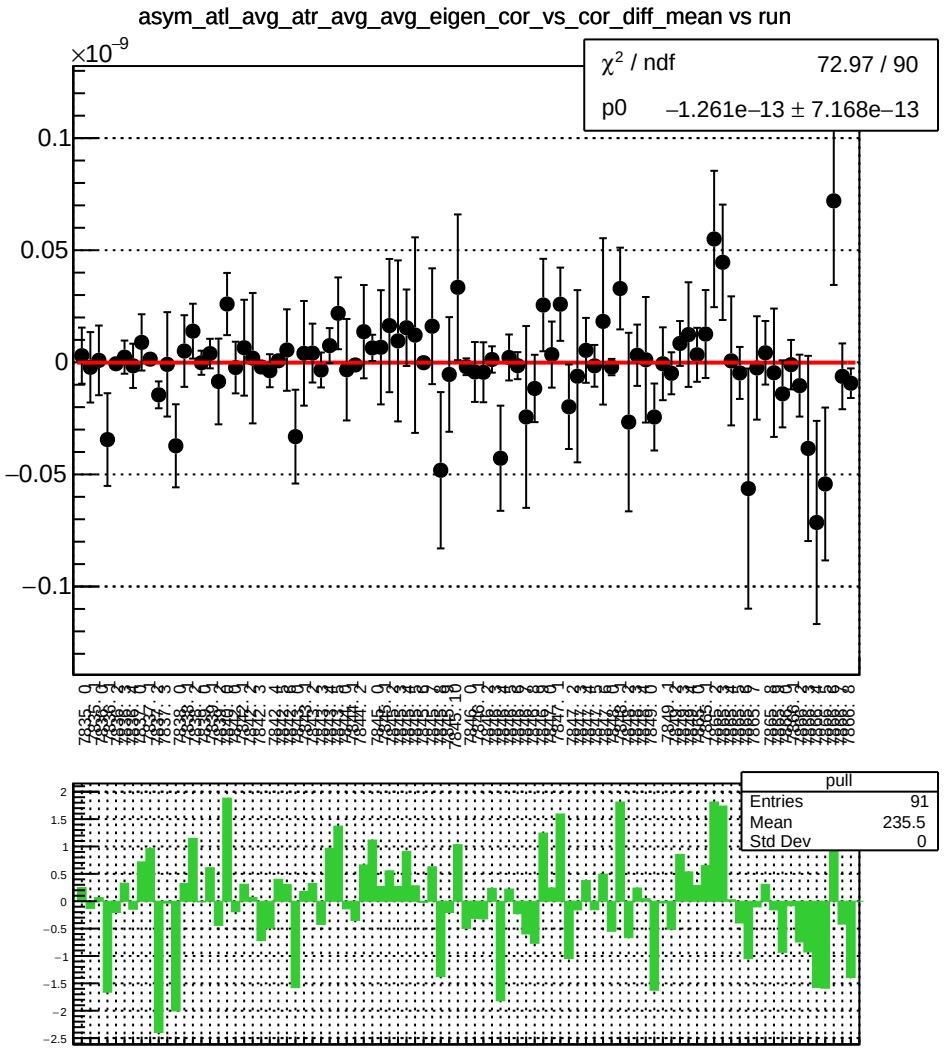

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.983e+04 / 90
p0 0.01805 ± 1.382e−05
0.04
0.035
0.03
0.025
0.02
0.015

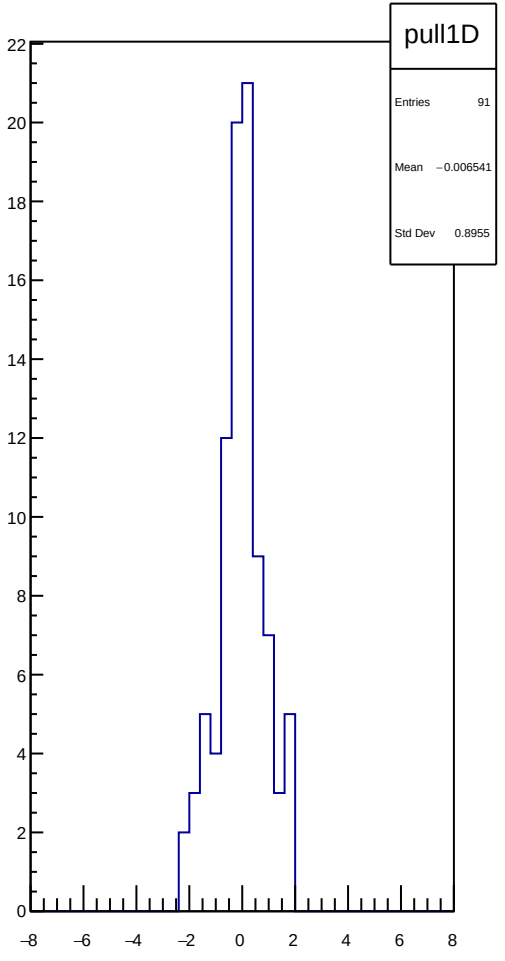

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.9 / 90
p0 0.03283 ± 0.2319
pull
Entries 91
Mean −2212
Std Dev 0
pull1D
Entries 91
Mean 0.0009898
Std Dev 0.9772

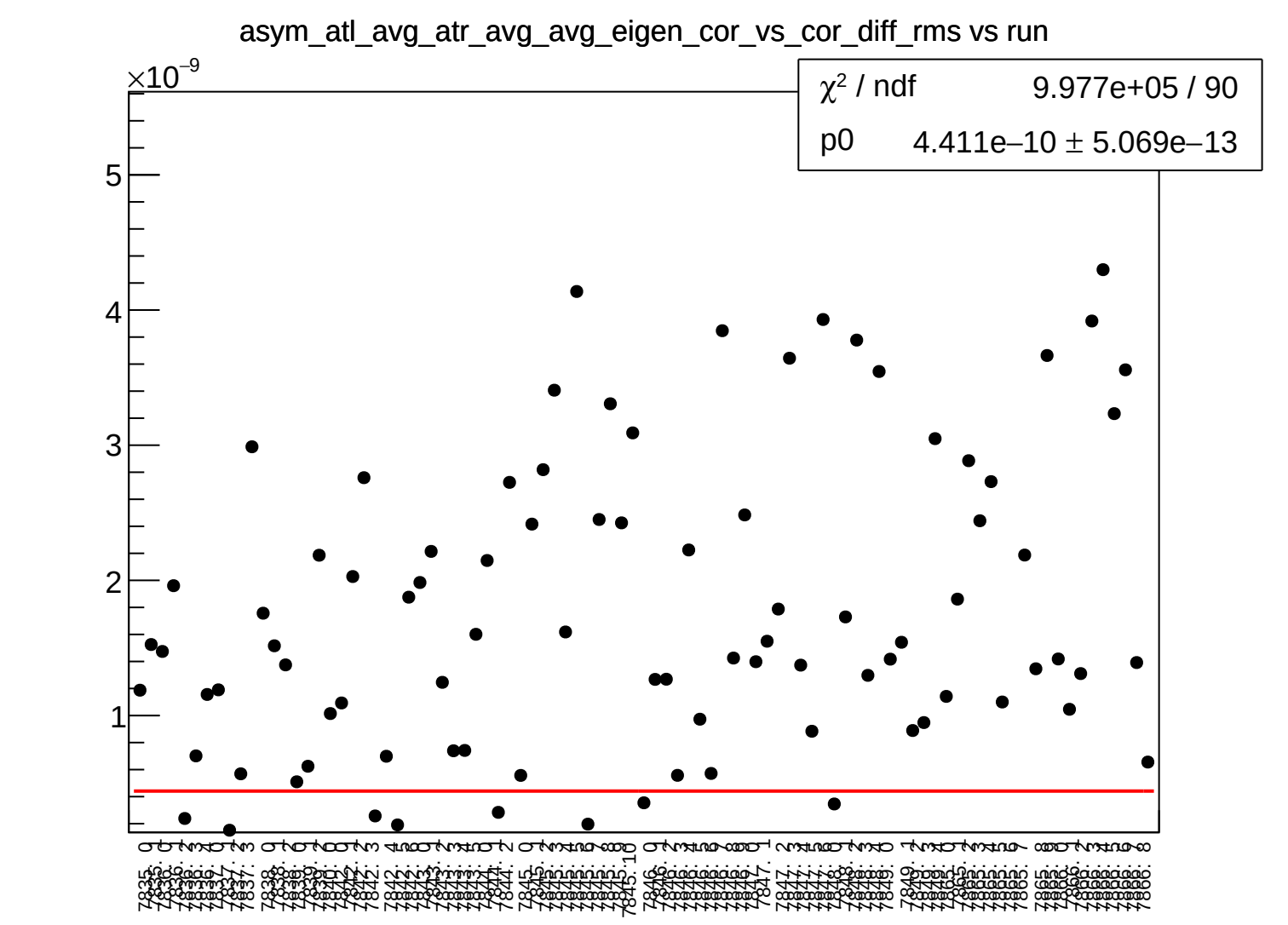

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 90
p0 207.3 ± 0.164
1000
900
800
700
600
500
400
300
200
100

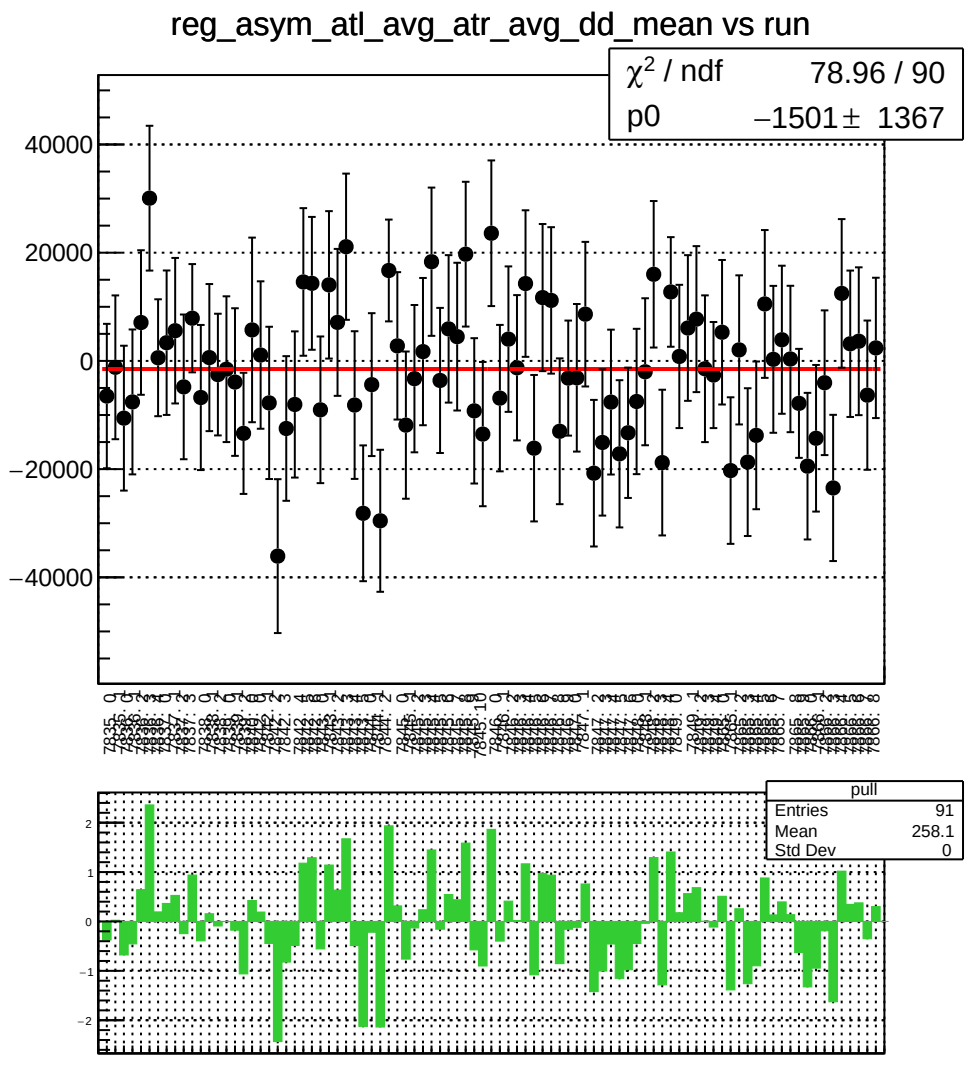

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.9 / 90
p0 0.03283 ± 0.2319
pull
Entries 91
Mean −2212
Std Dev 0
pull1D
Entries 91
Mean 0.0009898
Std Dev 0.9772

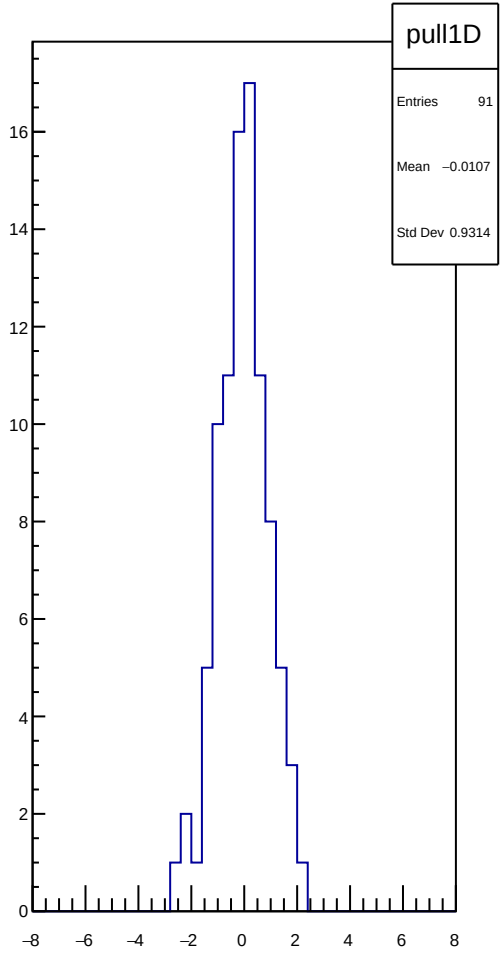

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 90
p0 207.3 ± 0.164
1000
900
800
700
600
500
400
300
200
100

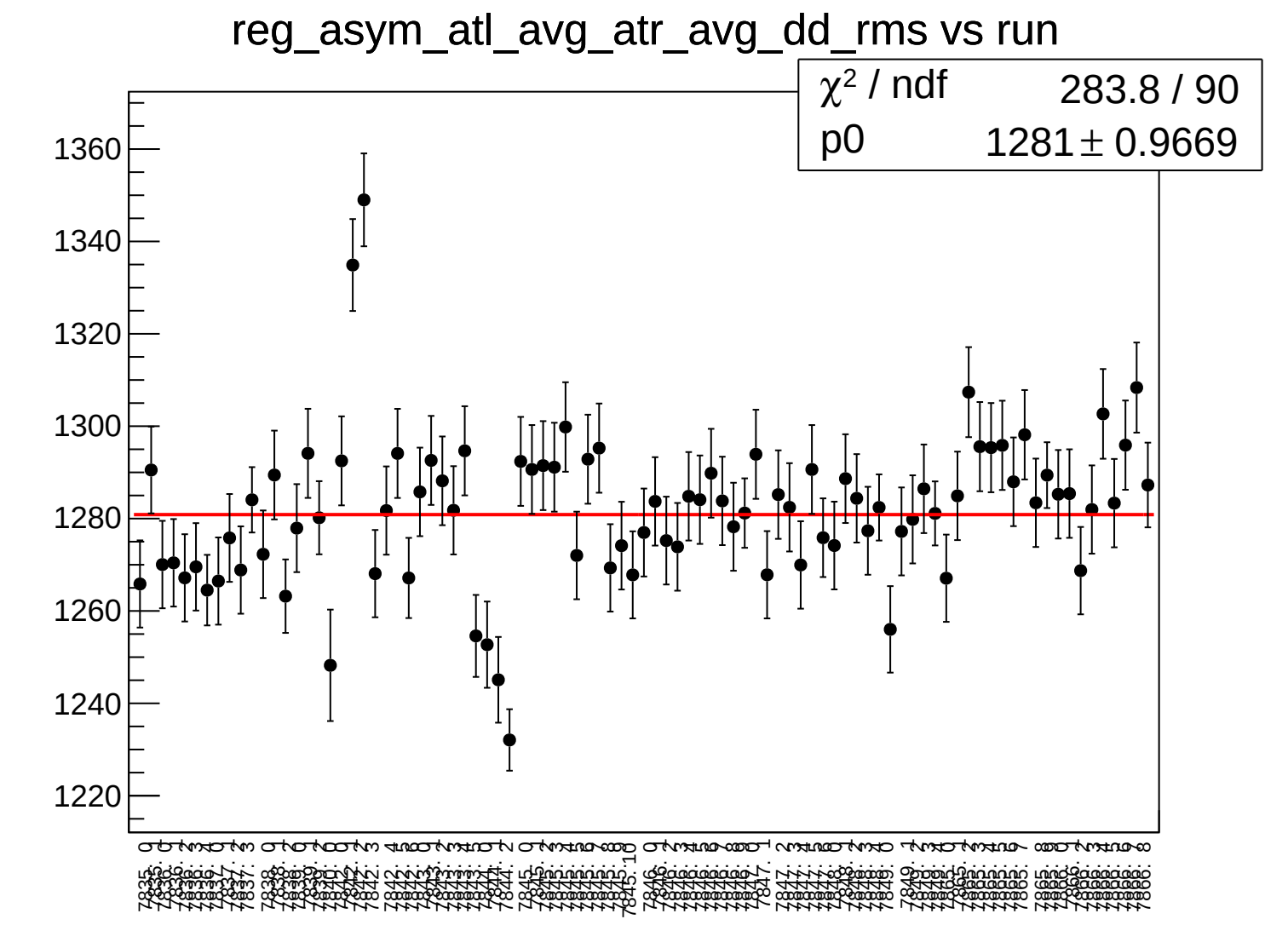

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 72.97 / 90
p0 −1.261e−13 ± 7.168e−13
pull
Entries 91
Mean 235.5
Std Dev 0

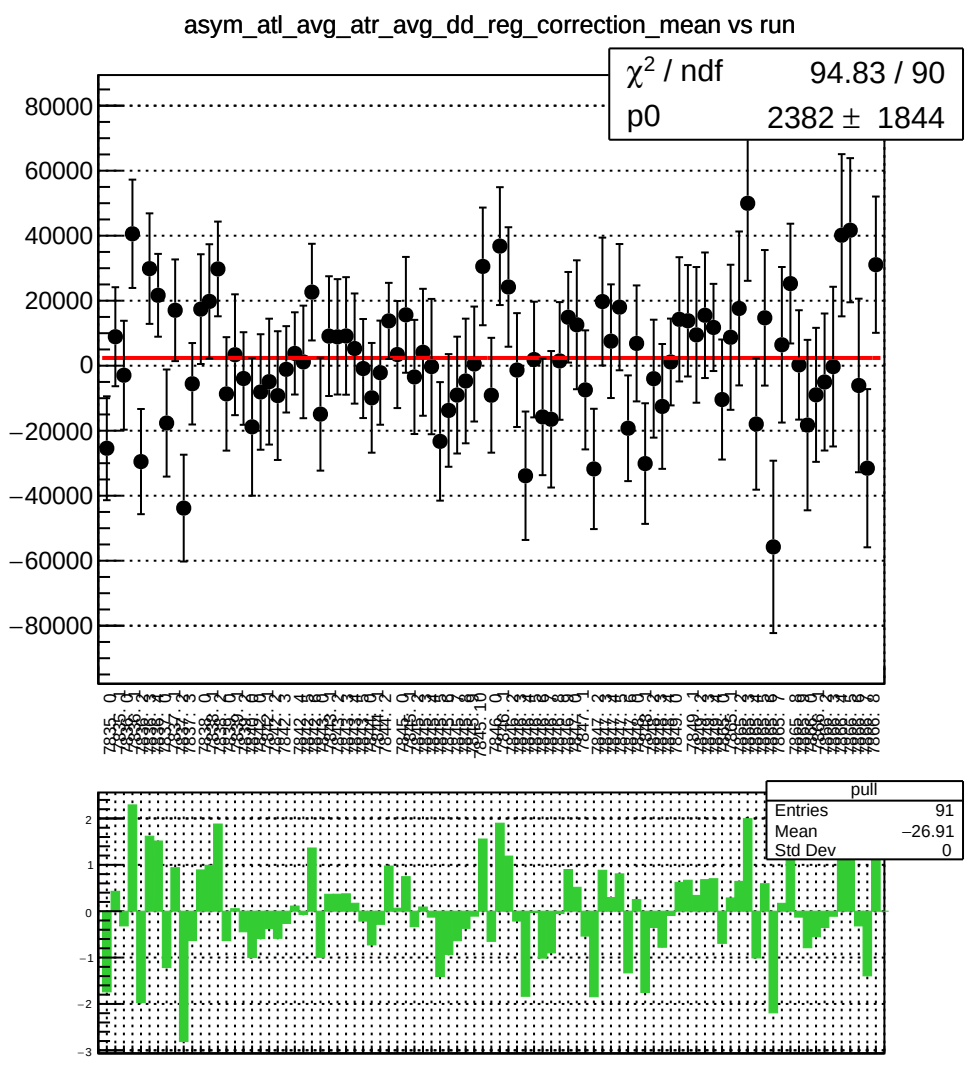

pull1D
Entries 91
Mean −0.006541
Std Dev 0.8955

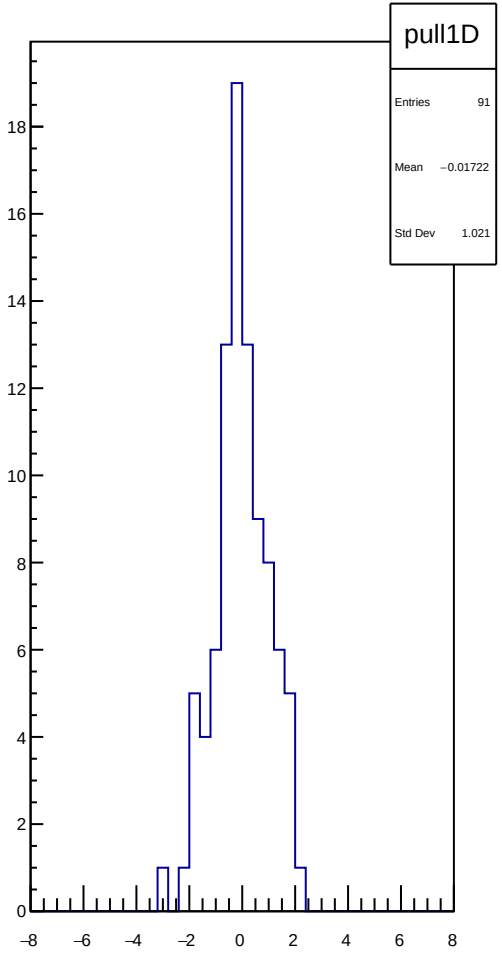

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.977e+05 / 90
p0 4.411e−10 ± 5.069e−13
5
4
3
2
1

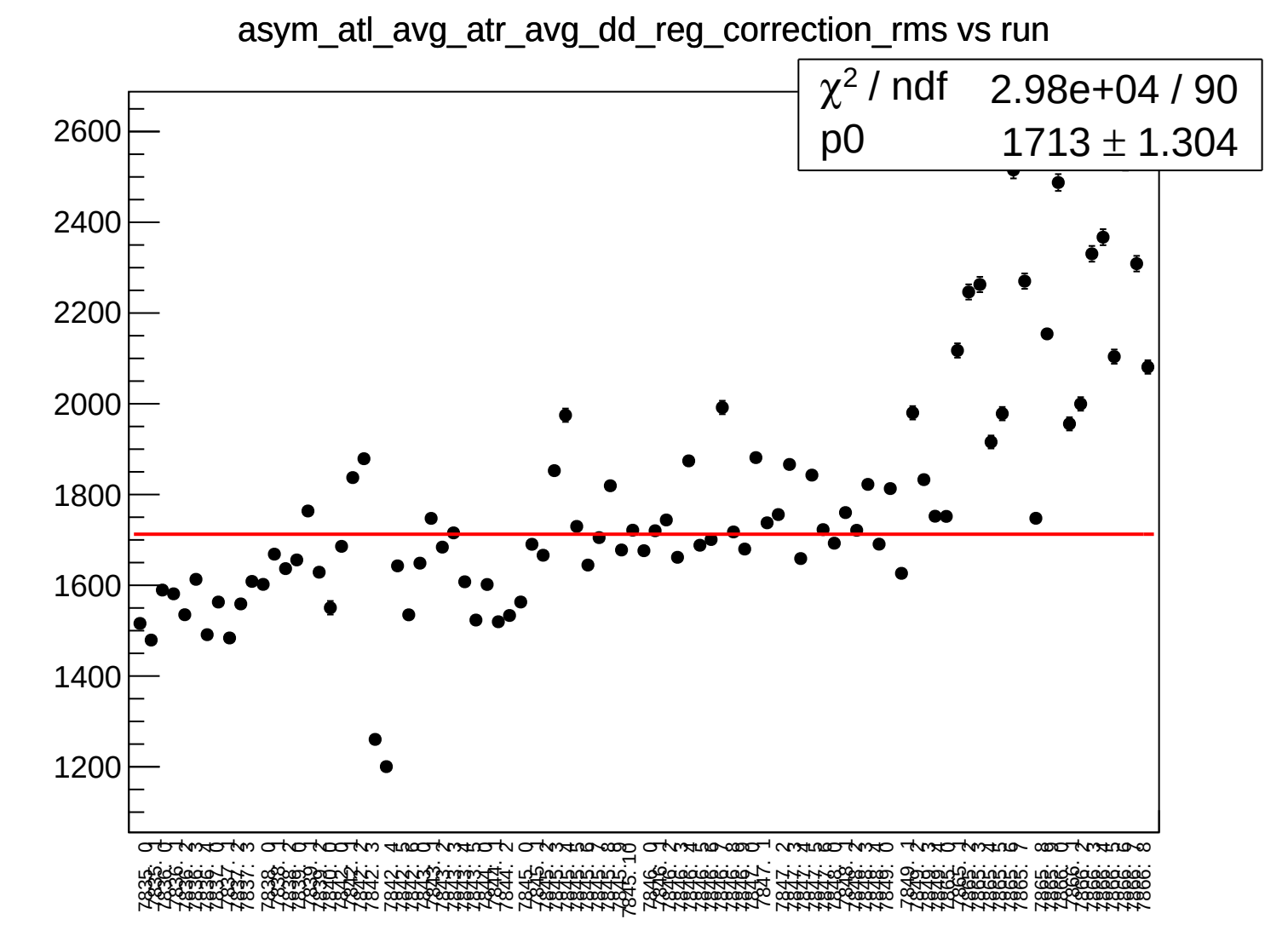

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 78.96 / 90
p0 −1501 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 258.1
Std Dev 0
2
1
0
−1
−2

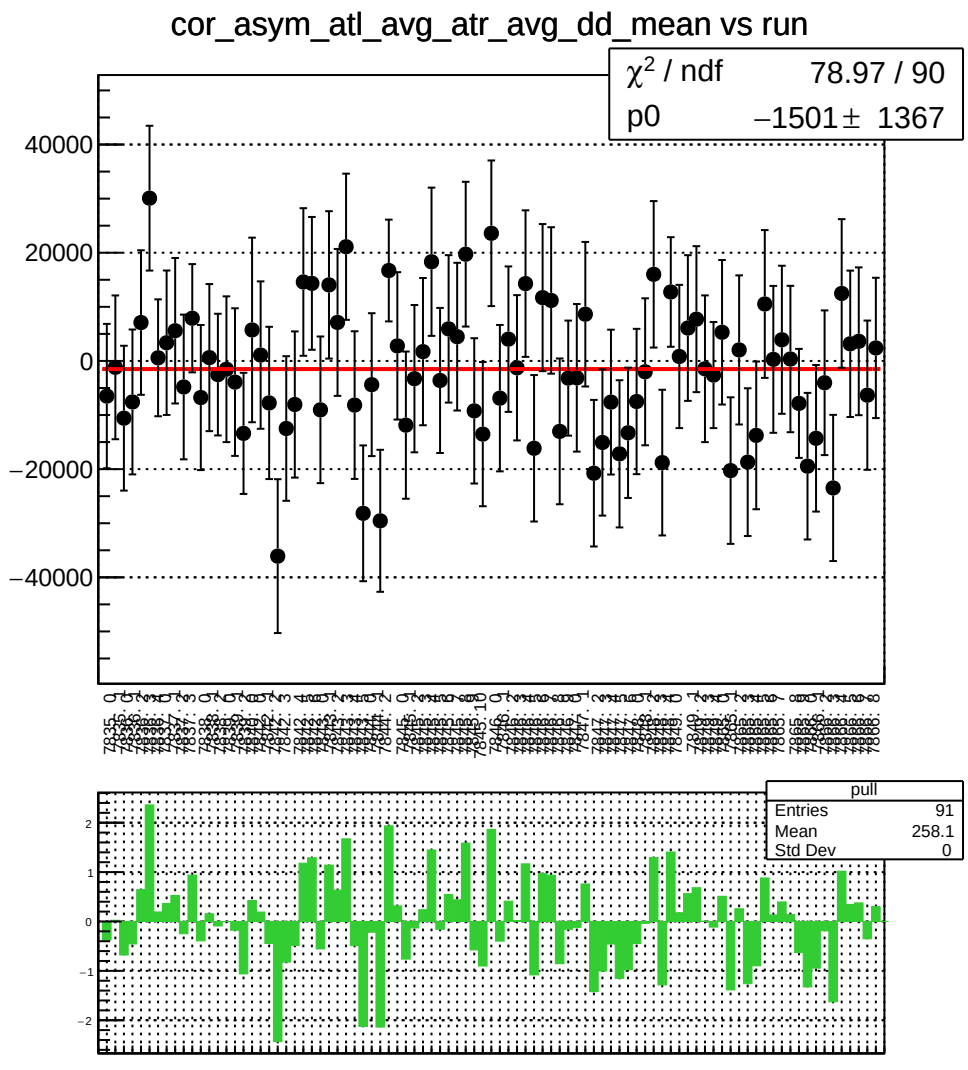

pull1D
Entries 91
Mean −0.0107
Std Dev 0.9314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

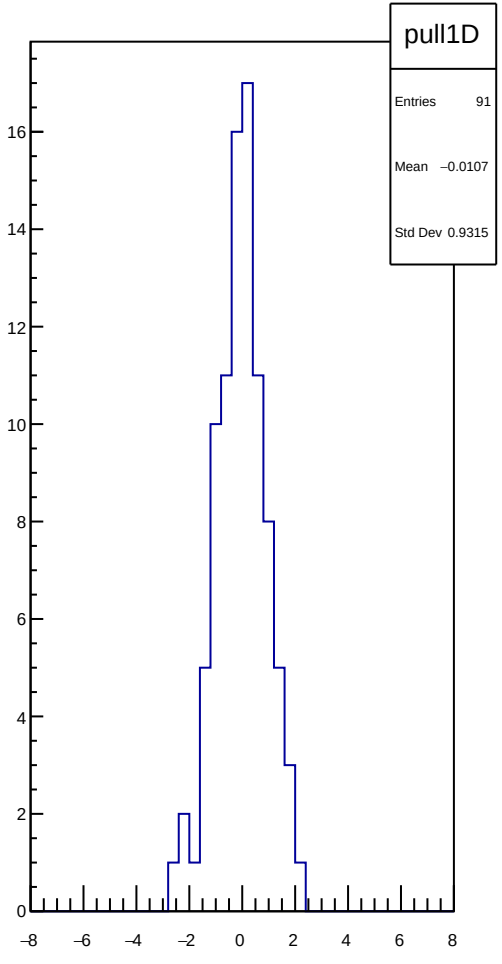

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 283.8 / 90
p0 1281 ± 0.9669
1360
1340
1320
1300
1280
1260
1240
1220

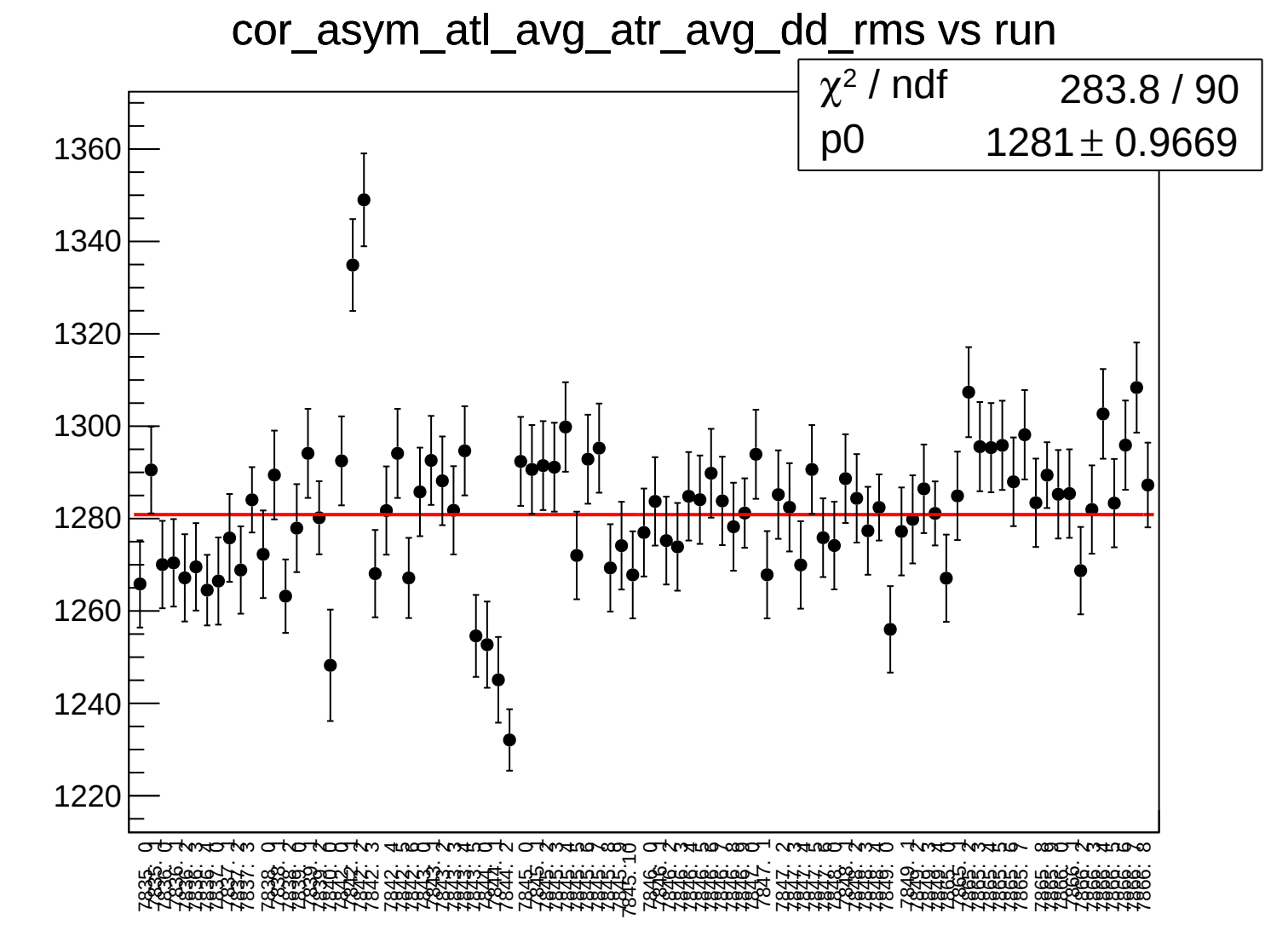

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 94.83 / 90
p0 2382 ± 1844
pull
Entries 91
Mean −26.91
Std Dev 0

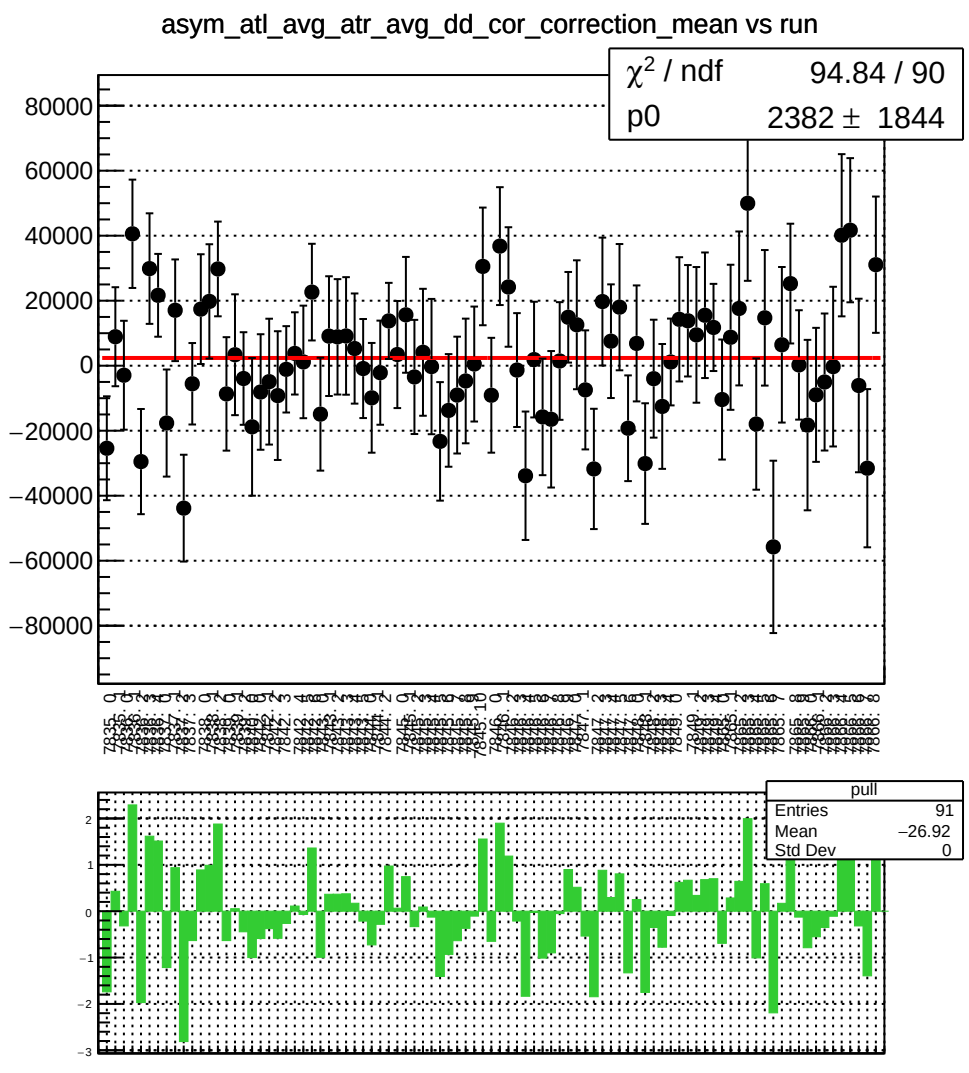

pull1D
Entries 91
Mean −0.01722
Std Dev 1.021

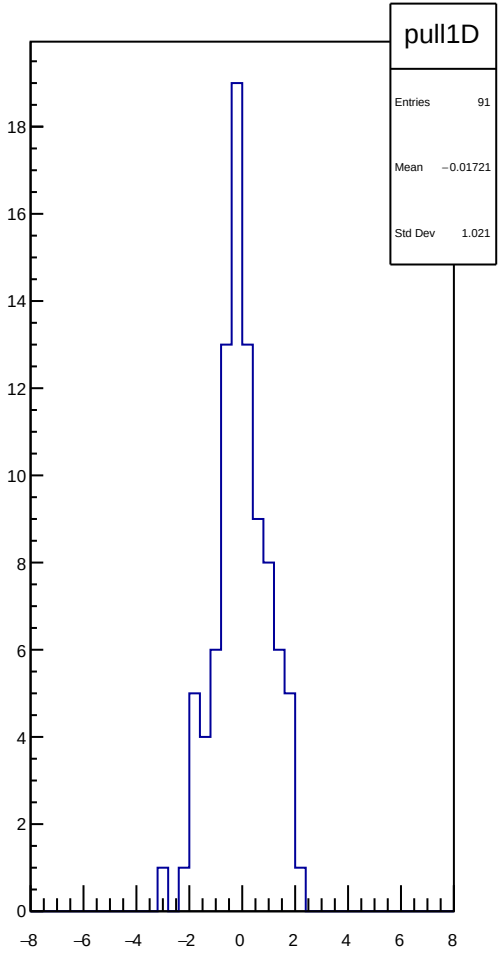

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.98e+04 / 90
p0 1713 ± 1.304
2600
2400
2200
2000
1800
1600
1400
1200

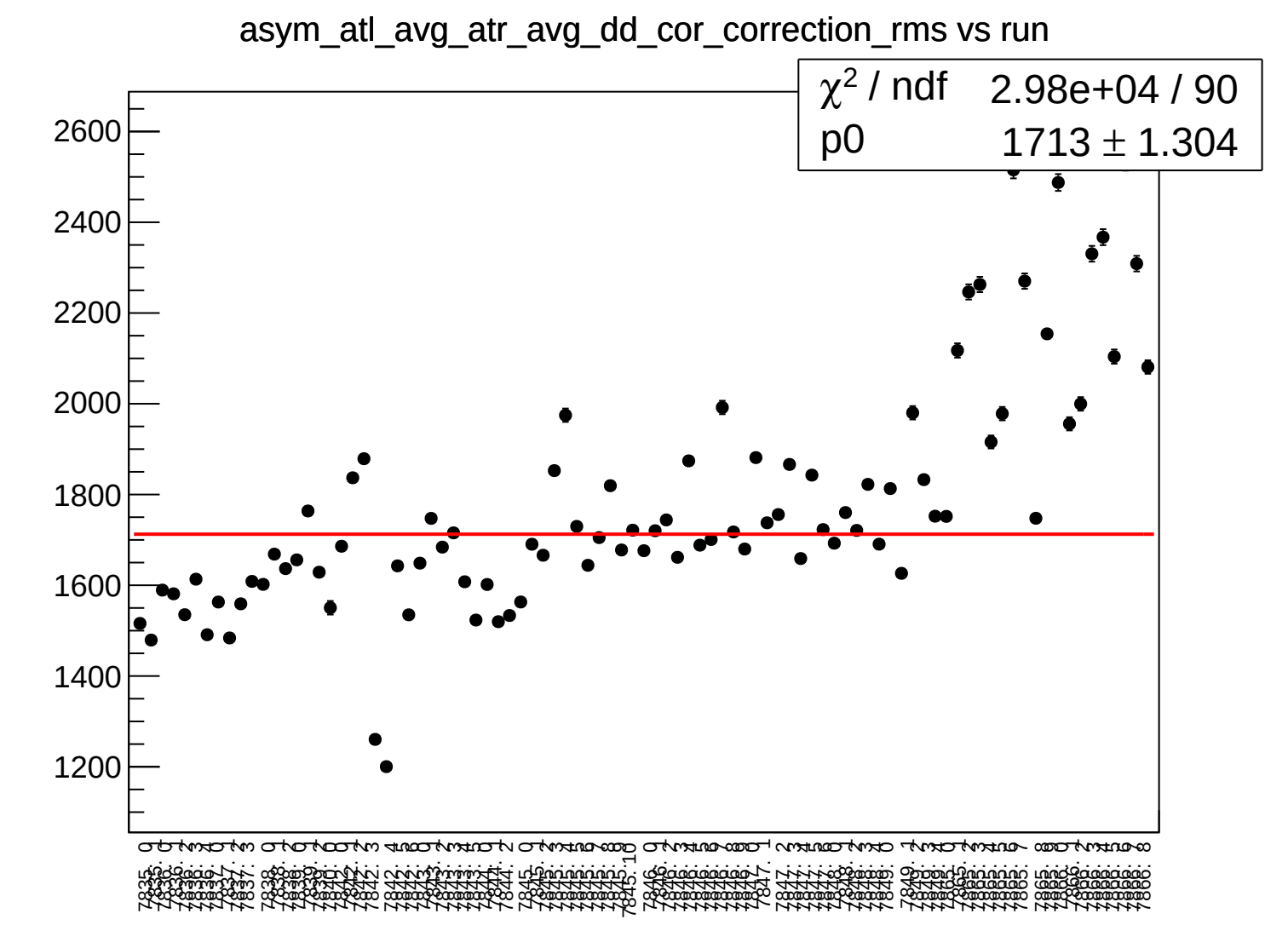

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 78.97 / 90
p0 −1501 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 258.1
Std Dev 0
2
1
0
−1
−2

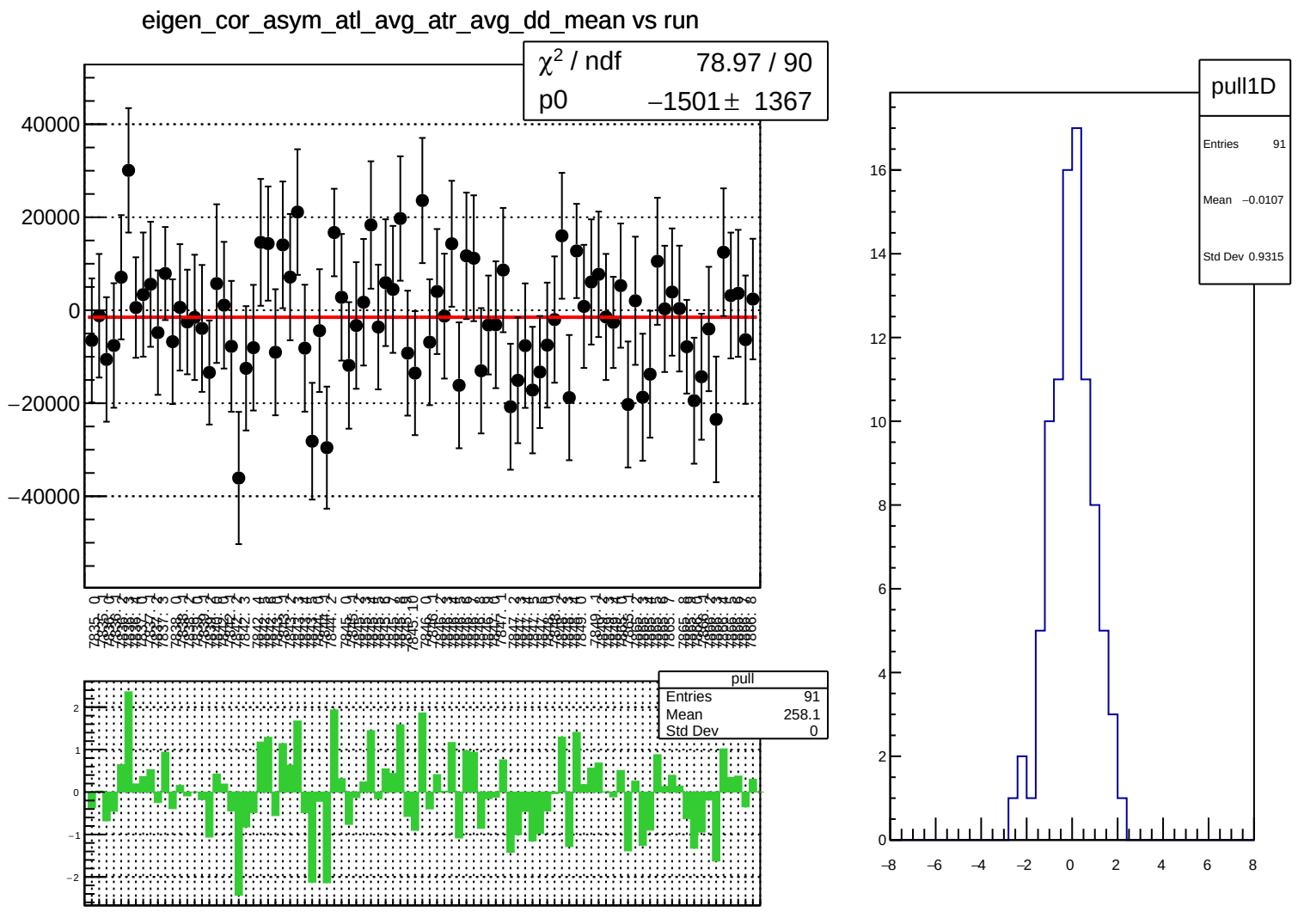

pull1D
Entries 91
Mean −0.0107
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

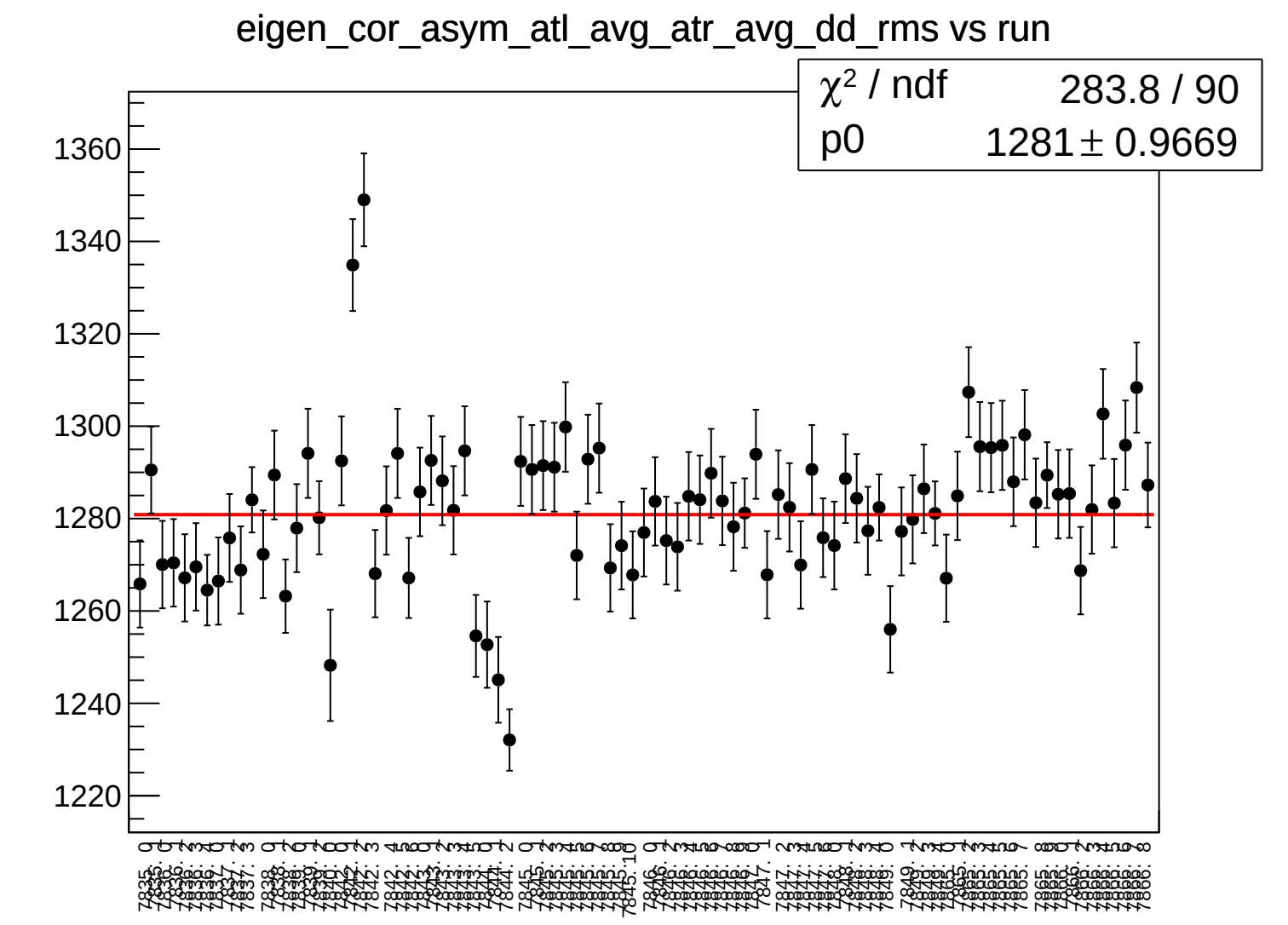

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 283.8 / 90
p0 1281 ± 0.9669
1360
1340
1320
1300
1280
1260
1240
1220

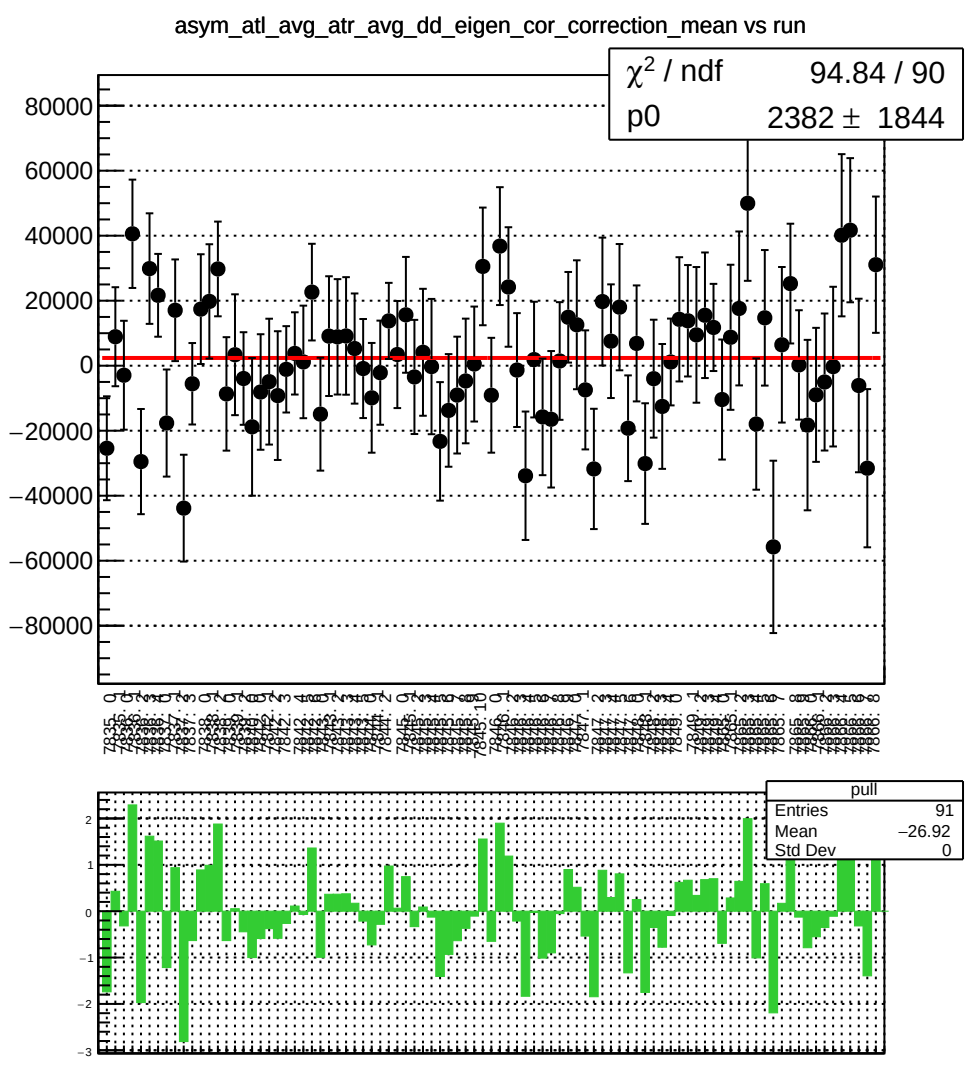

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 94.84 / 90
p0 2382 ± 1844
pull
Entries 91
Mean −26.92
Std Dev 0

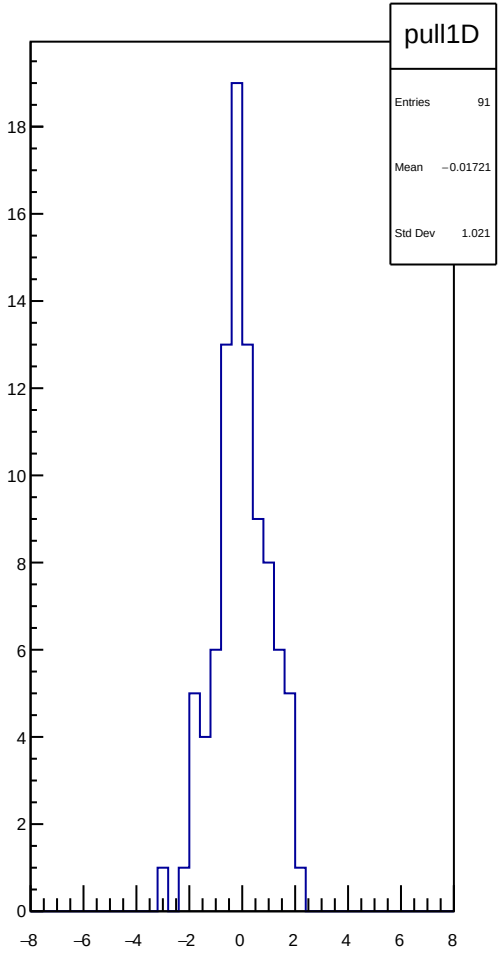

pull1D
Entries 91
Mean −0.01721
Std Dev 1.021

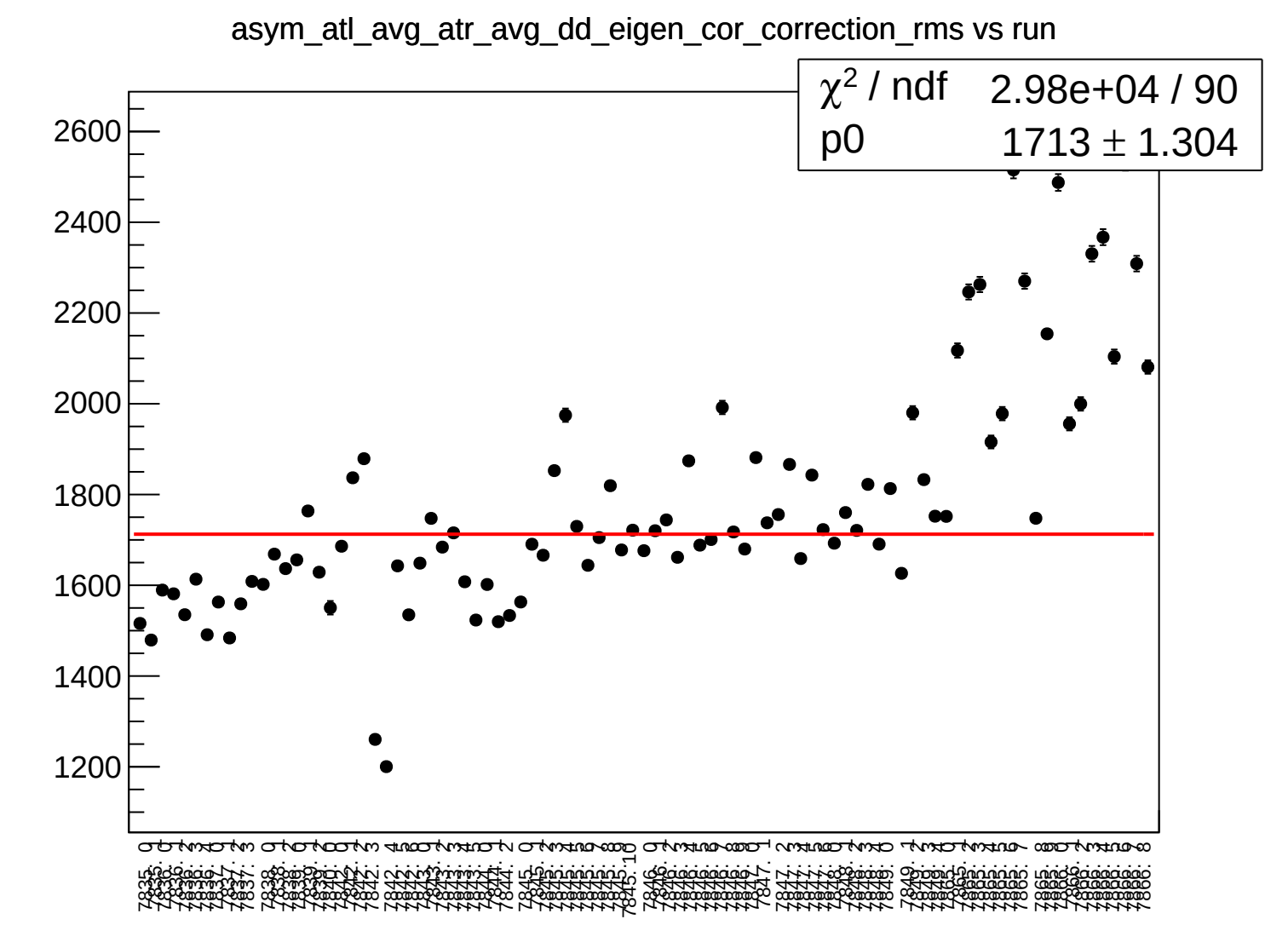

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.98e+04 / 90
p0 1713 ± 1.304
2600
2400
2200
2000
1800
1600
1400
1200

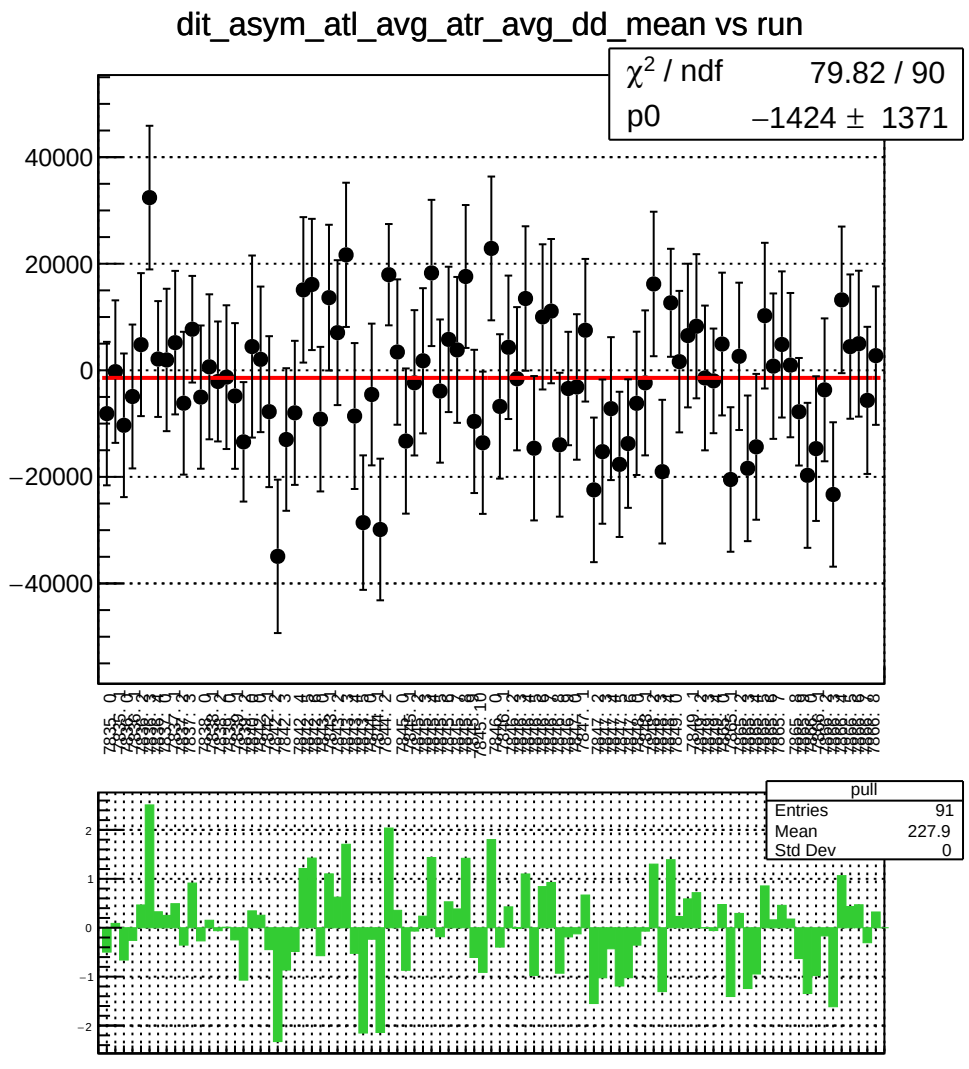

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 78.97 / 90
p0 −1501 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 258.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0107
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

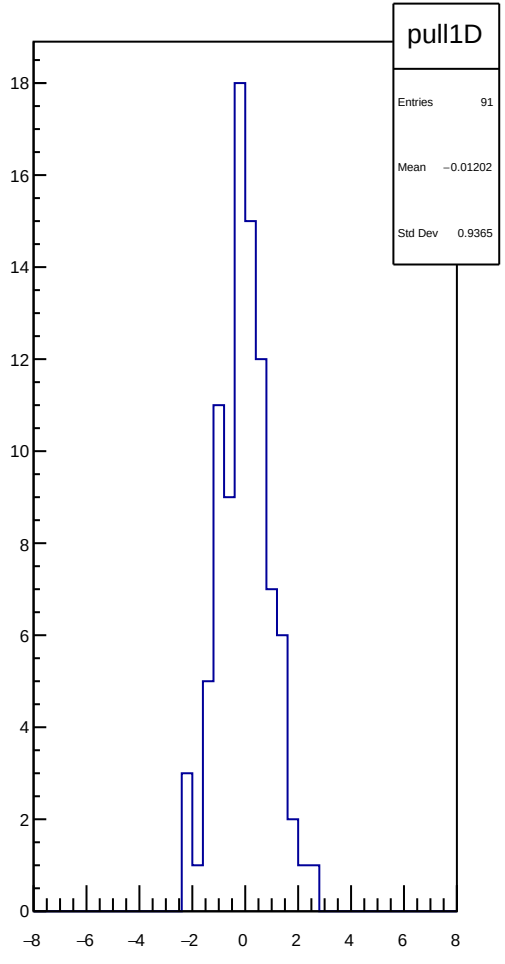

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 283.8 / 90
p0 1281 ± 0.9669
1360
1340
1320
1300
1280
1260
1240
1220

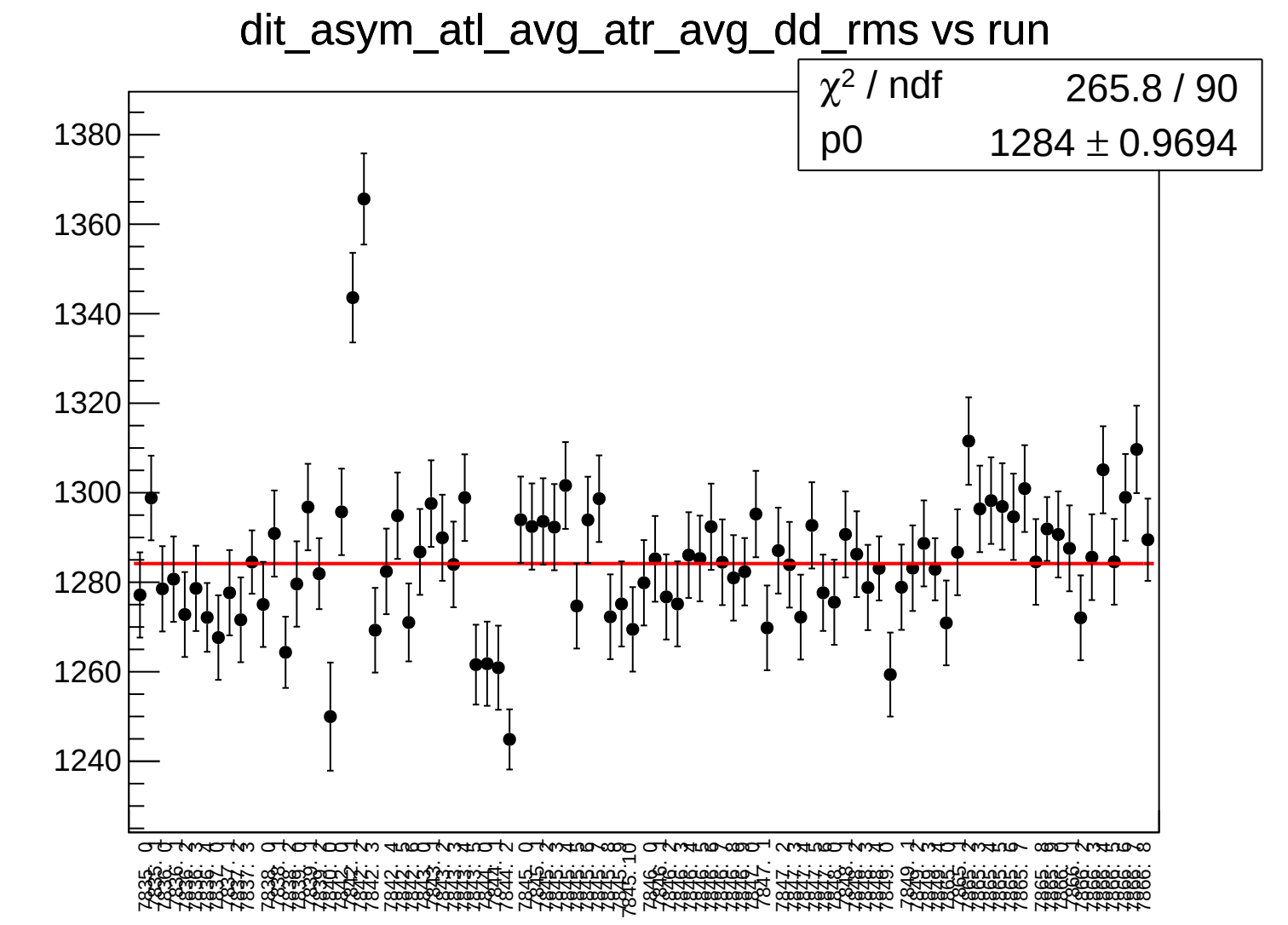

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.84 / 90
p0 2382 ± 1844
pull
Entries 91
Mean −26.92
Std Dev 0

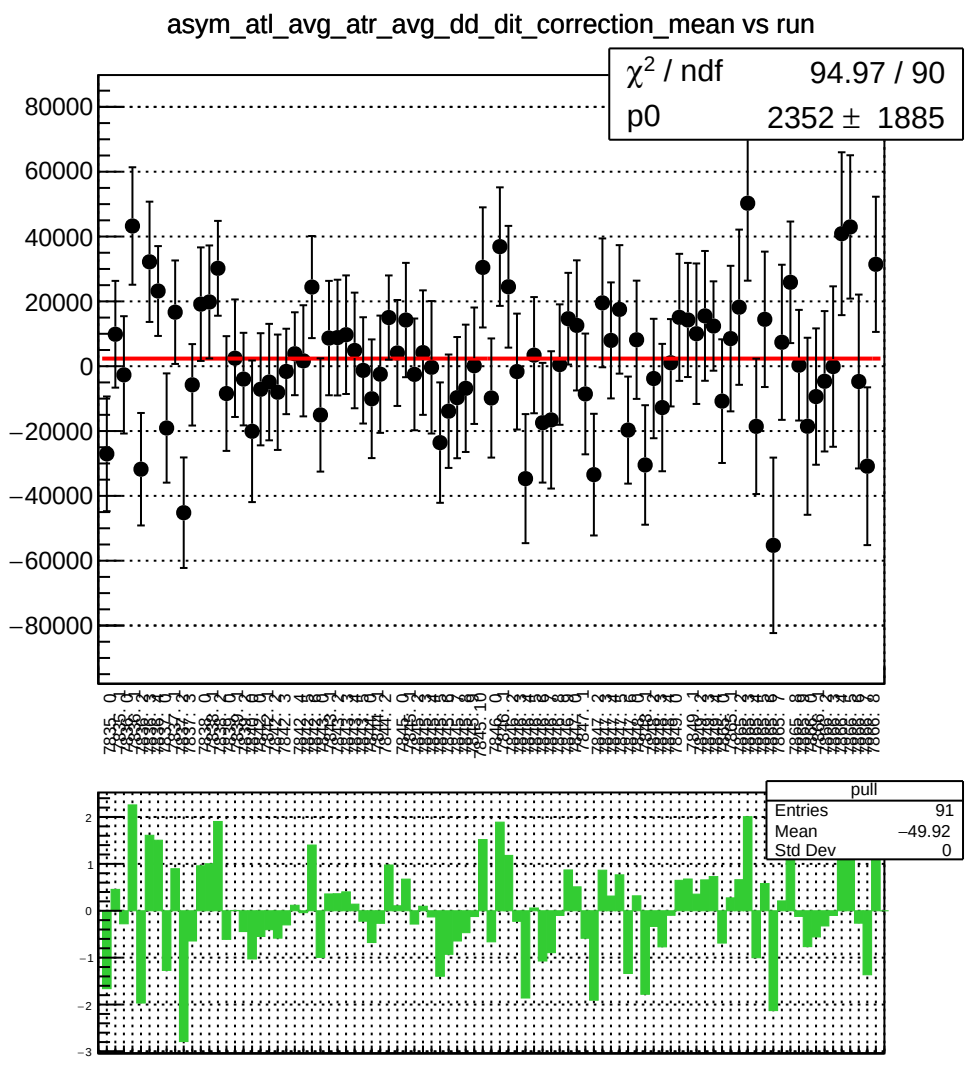

pull1D
Entries 91
Mean −0.01721
Std Dev 1.021

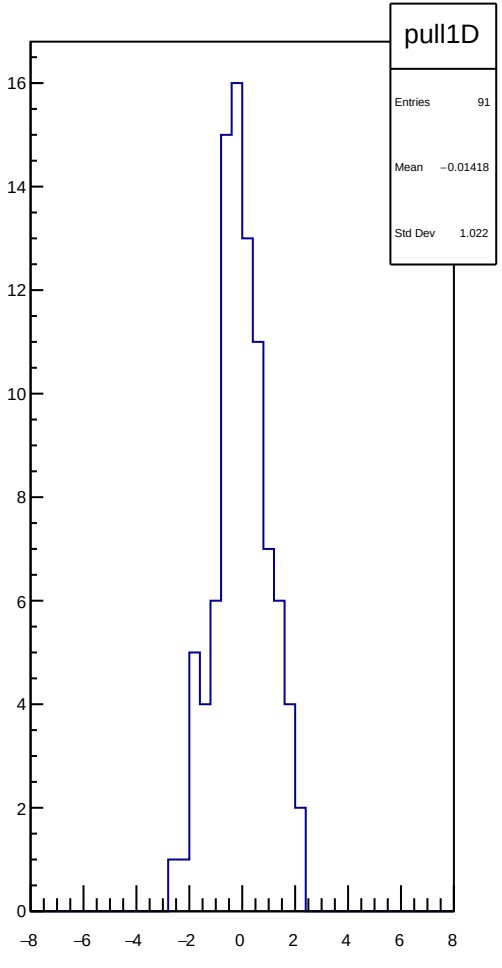

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.98e+04 / 90
p0 1713 ± 1.304
2600
2400
2200
2000
1800
1600
1400
1200

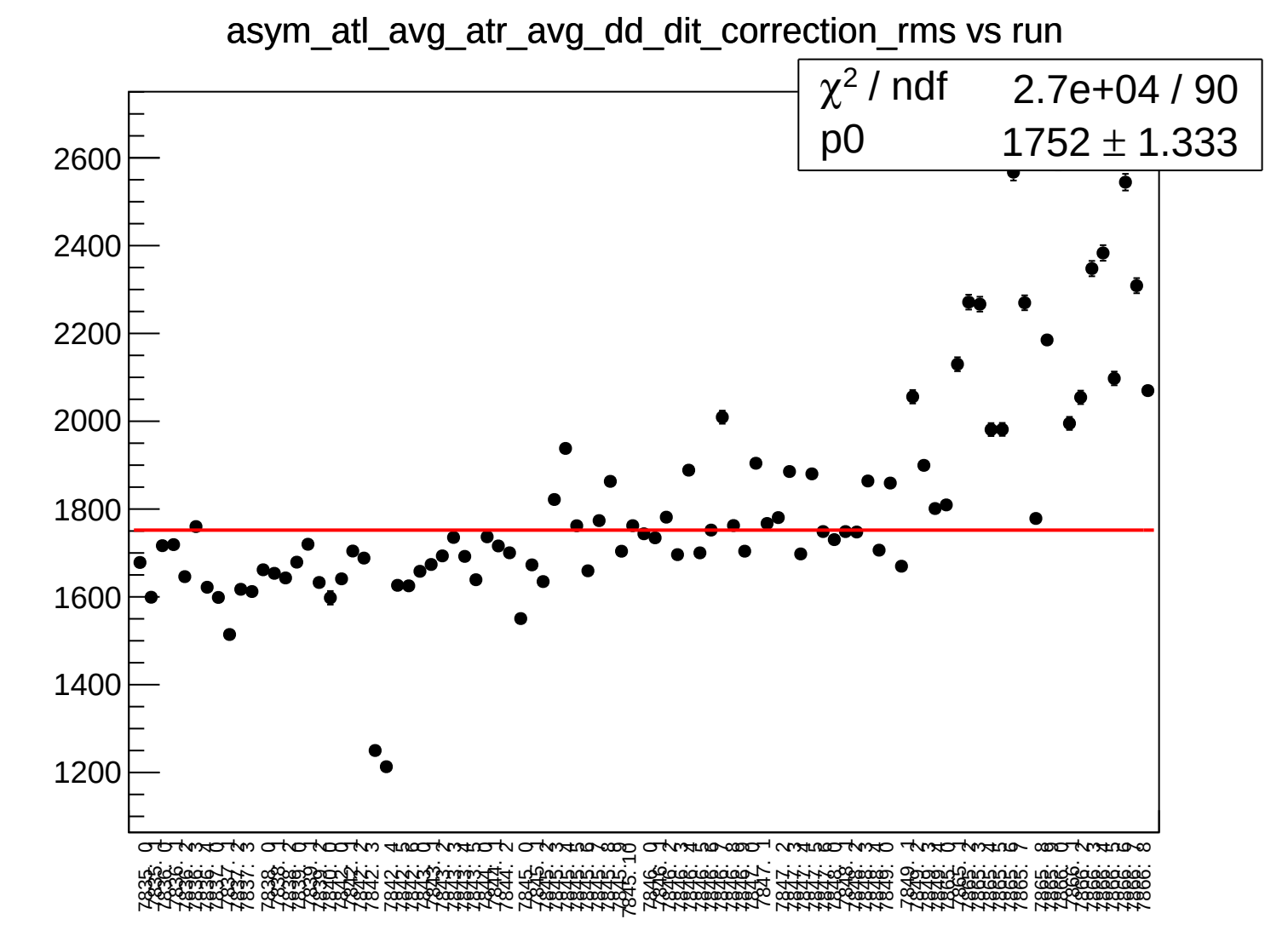

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.82 / 90
p0 −1424 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 227.9
Std Dev 0
2
1
0
−1
−2

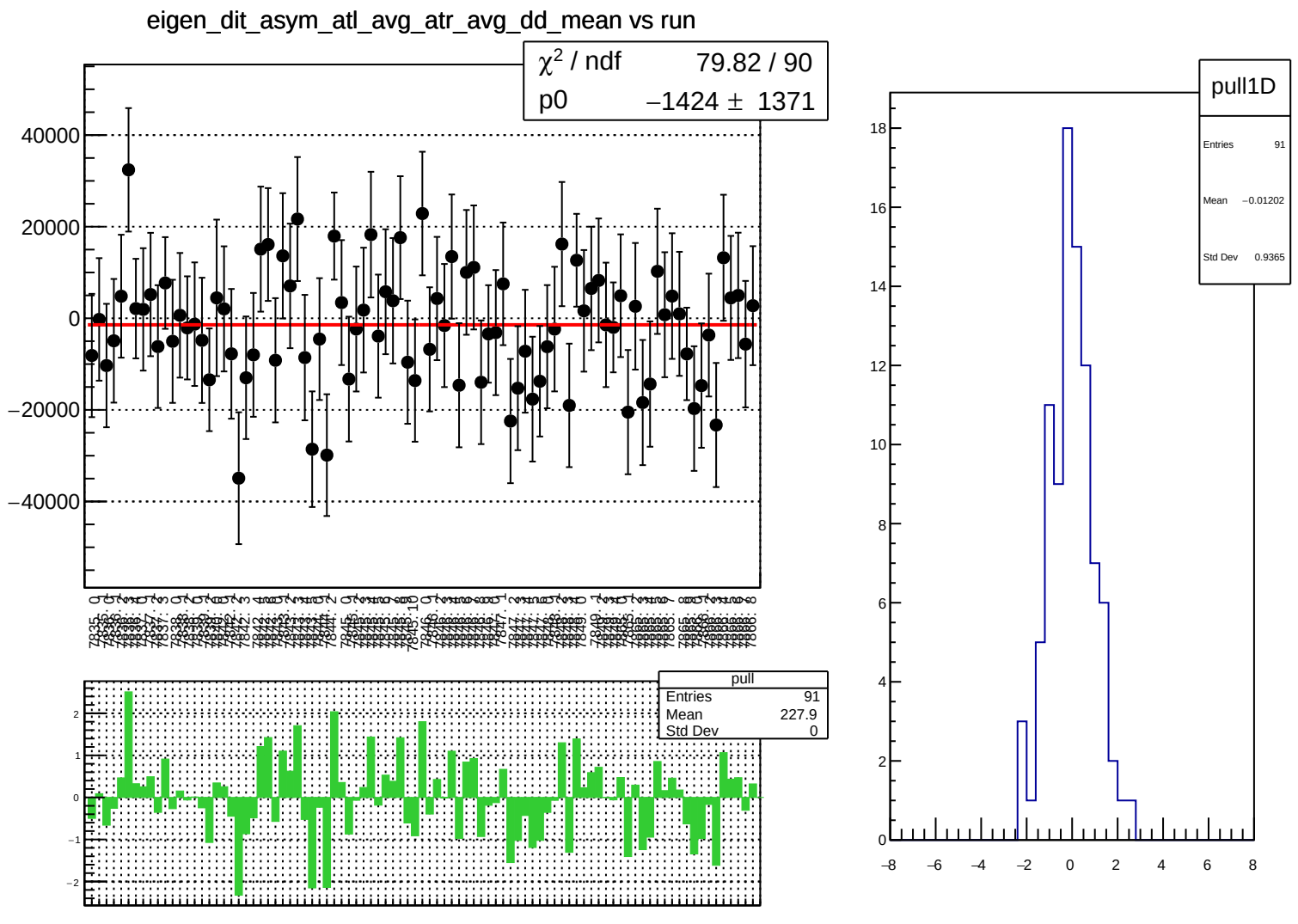

pull1D
Entries 91
Mean −0.01202
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

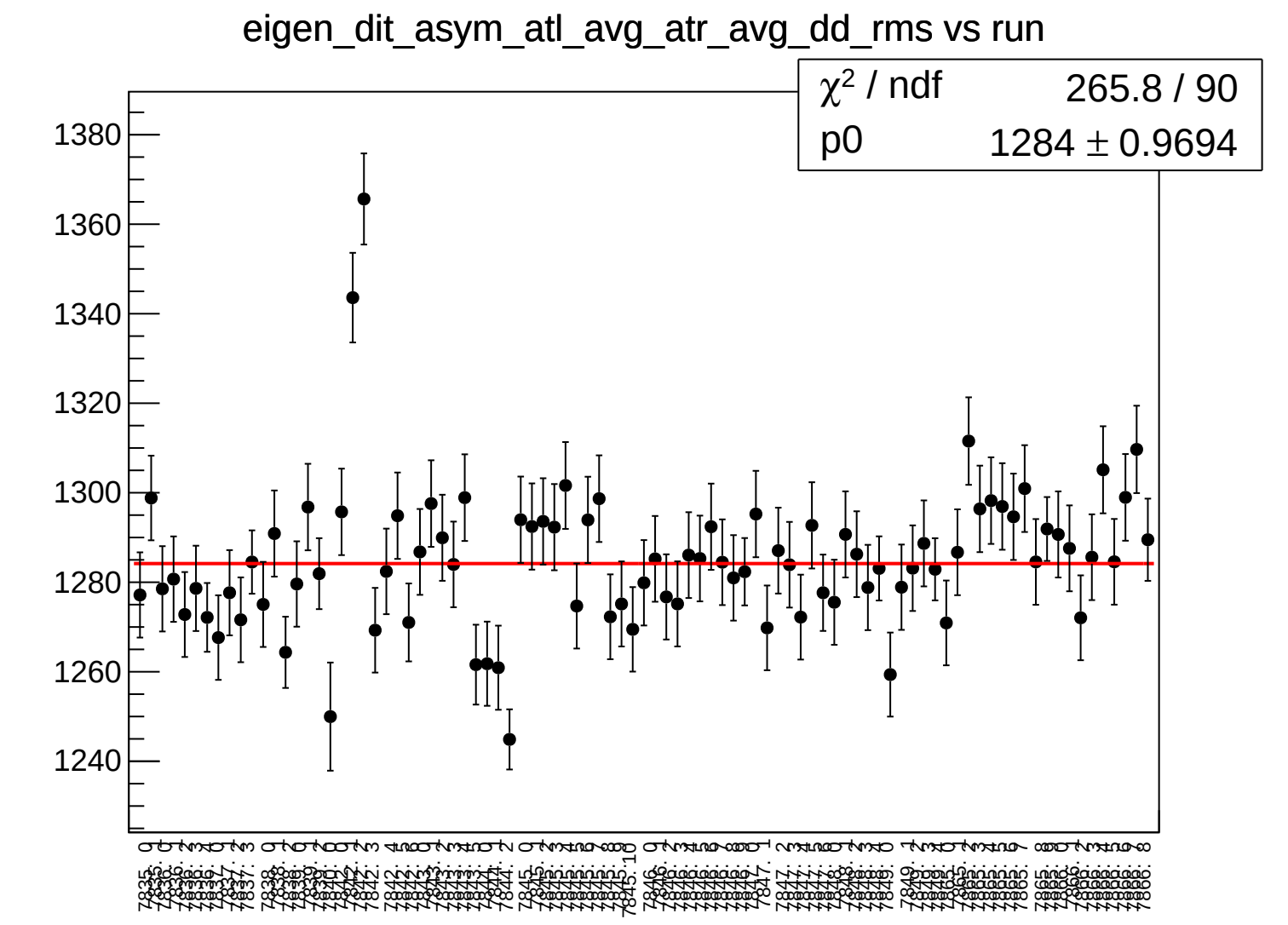

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 265.8 / 90
p0 1284 ± 0.9694
1380
1360
1340
1320
1300
1280
1260
1240

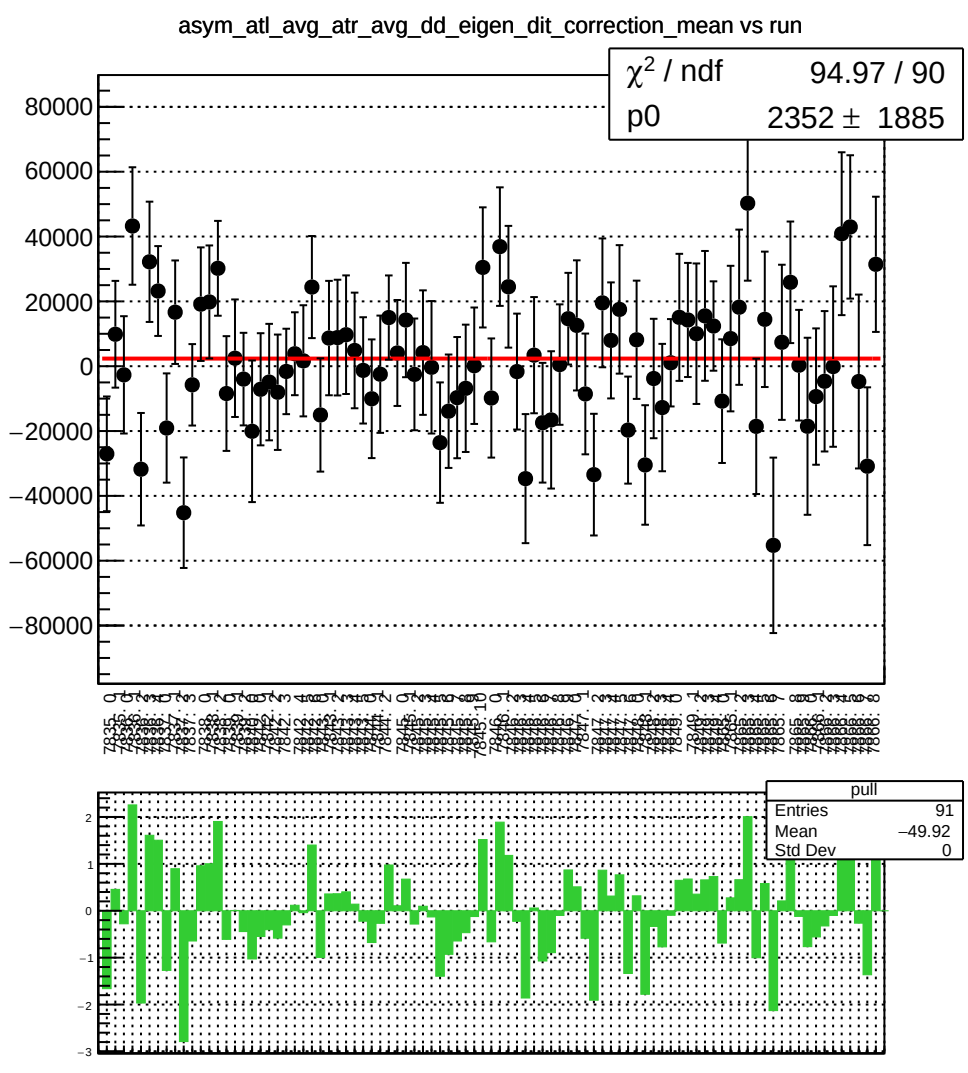

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 94.97 / 90
p0 2352 ± 1885
pull
Entries 91
Mean −49.92
Std Dev 0

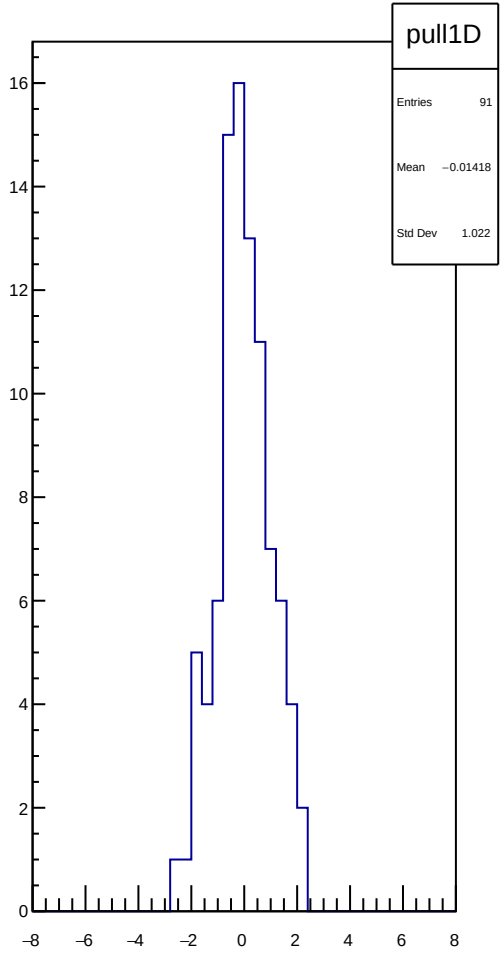

pull1D
Entries 91
Mean −0.01418
Std Dev 1.022

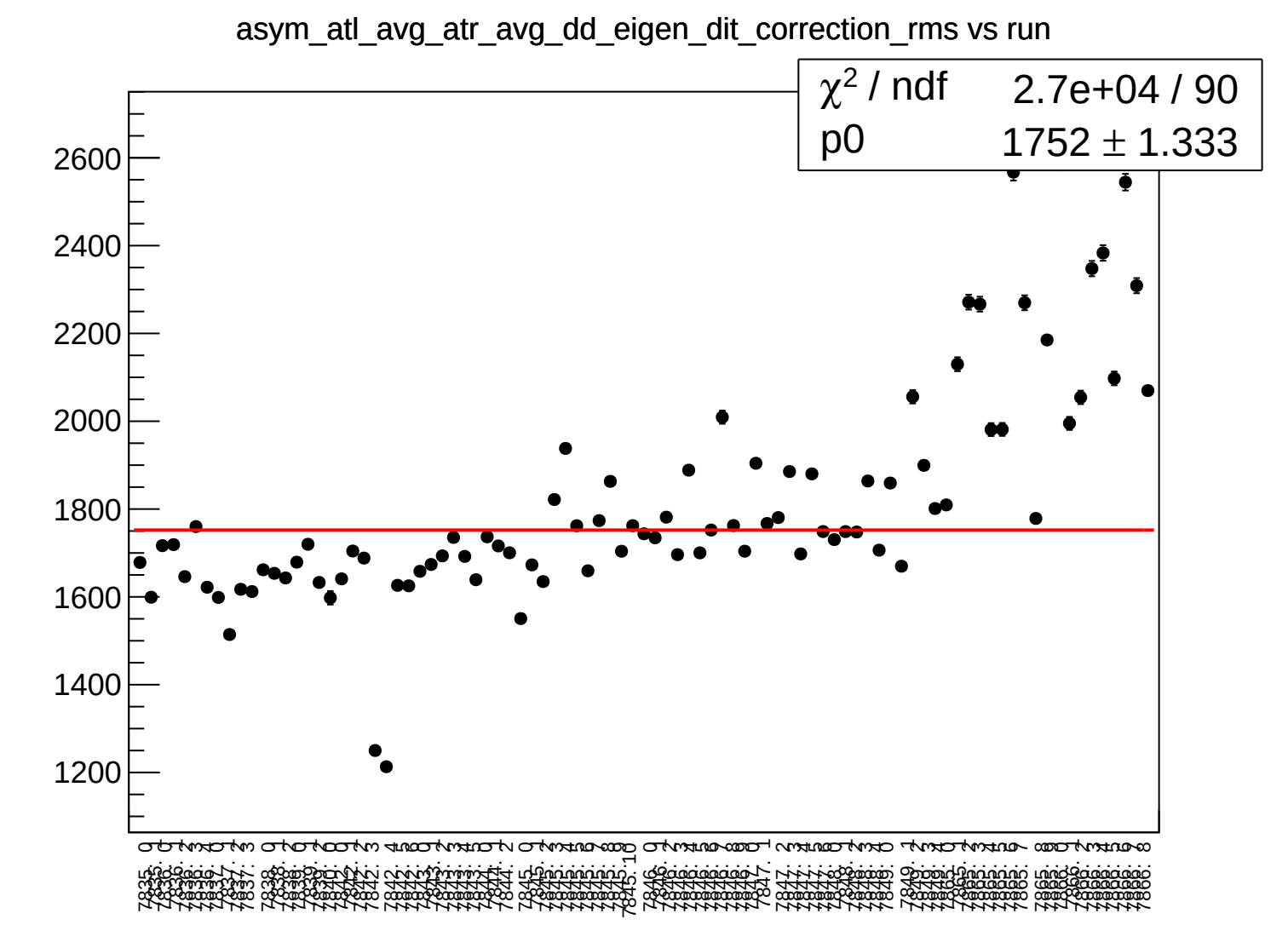

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.7e+04 / 90
p0 1752 ± 1.333
2600
2400
2200
2000
1800
1600
1400
1200

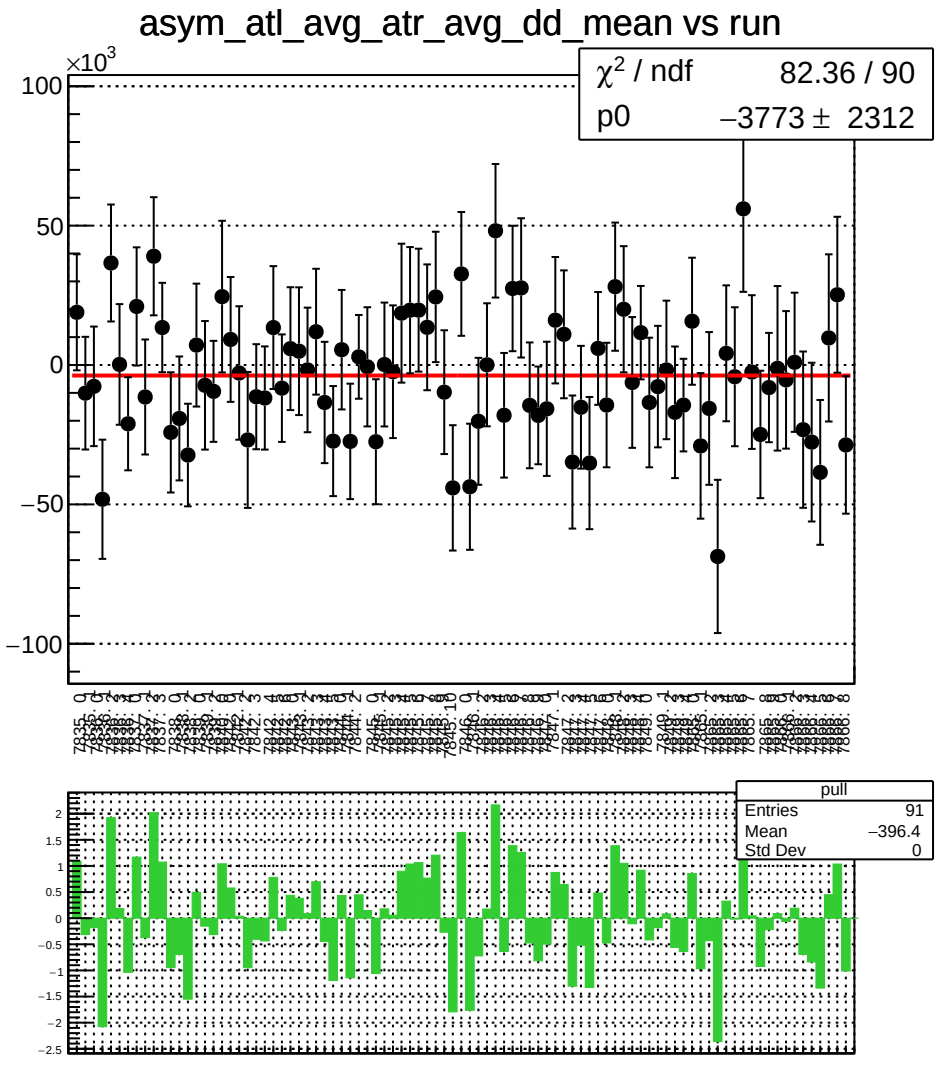

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.82 / 90
p0 −1424 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 227.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01202
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

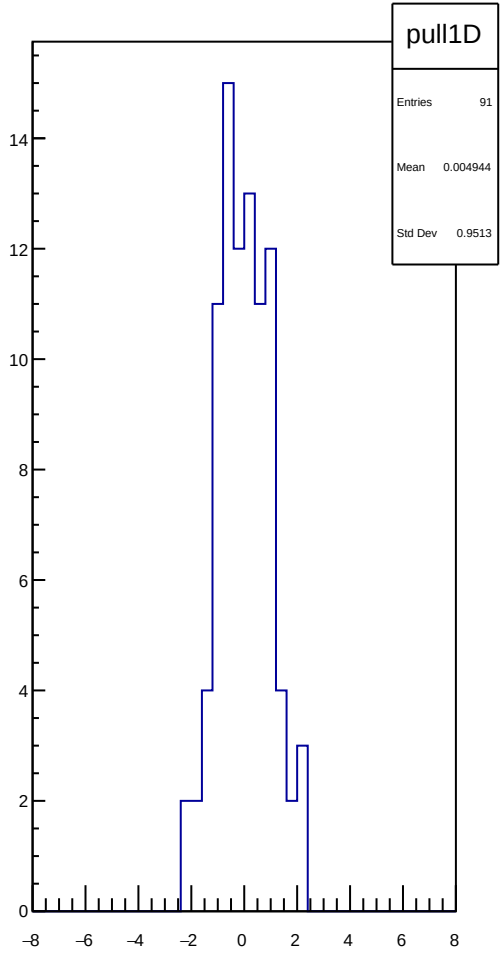

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 265.8 / 90
p0 1284 ± 0.9694
1380
1360
1340
1320
1300
1280
1260
1240

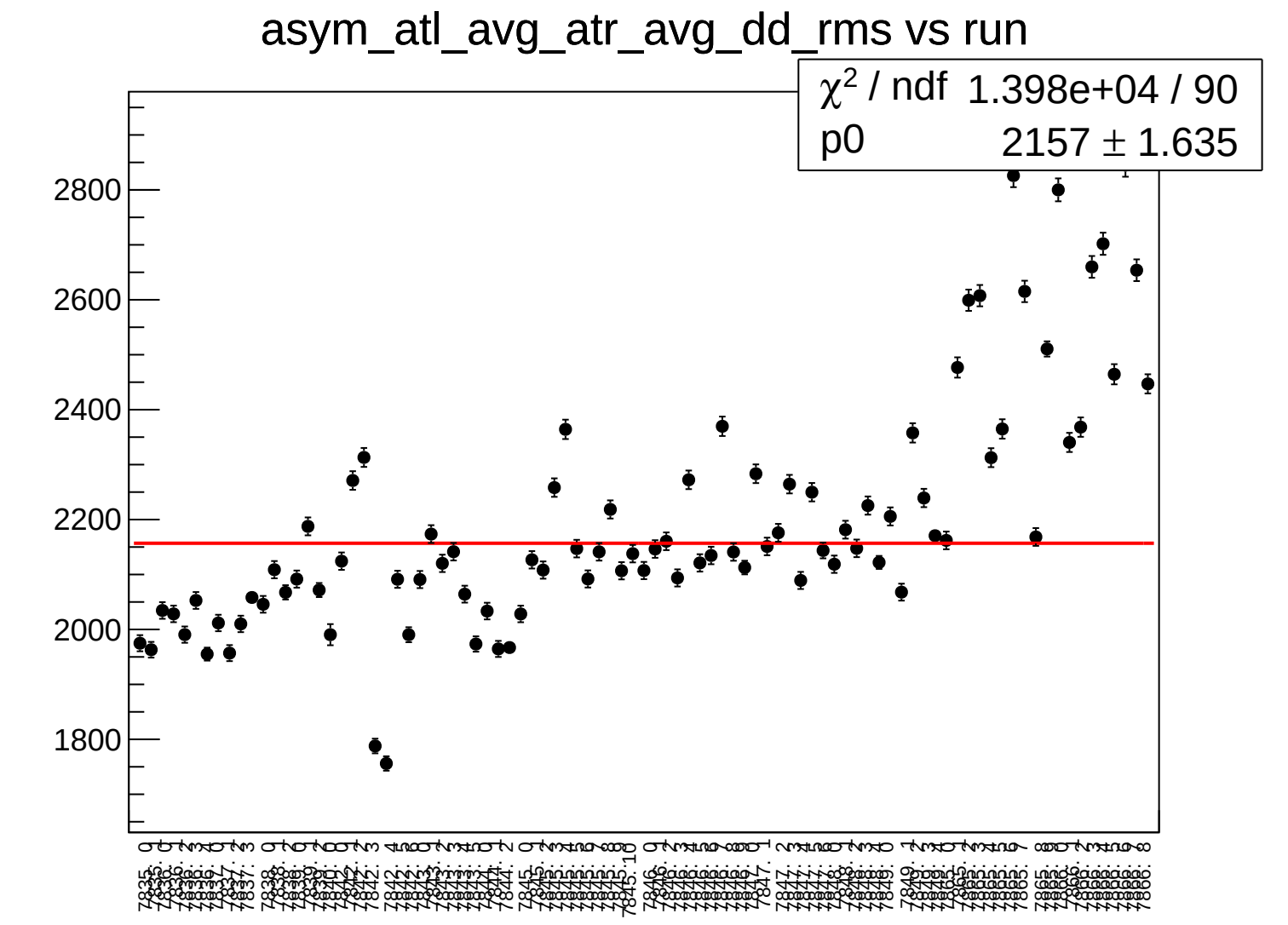

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.97 / 90
p0 2352 ± 1885
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −49.92
Std Dev 0
2
1
0
−1
−2
−3

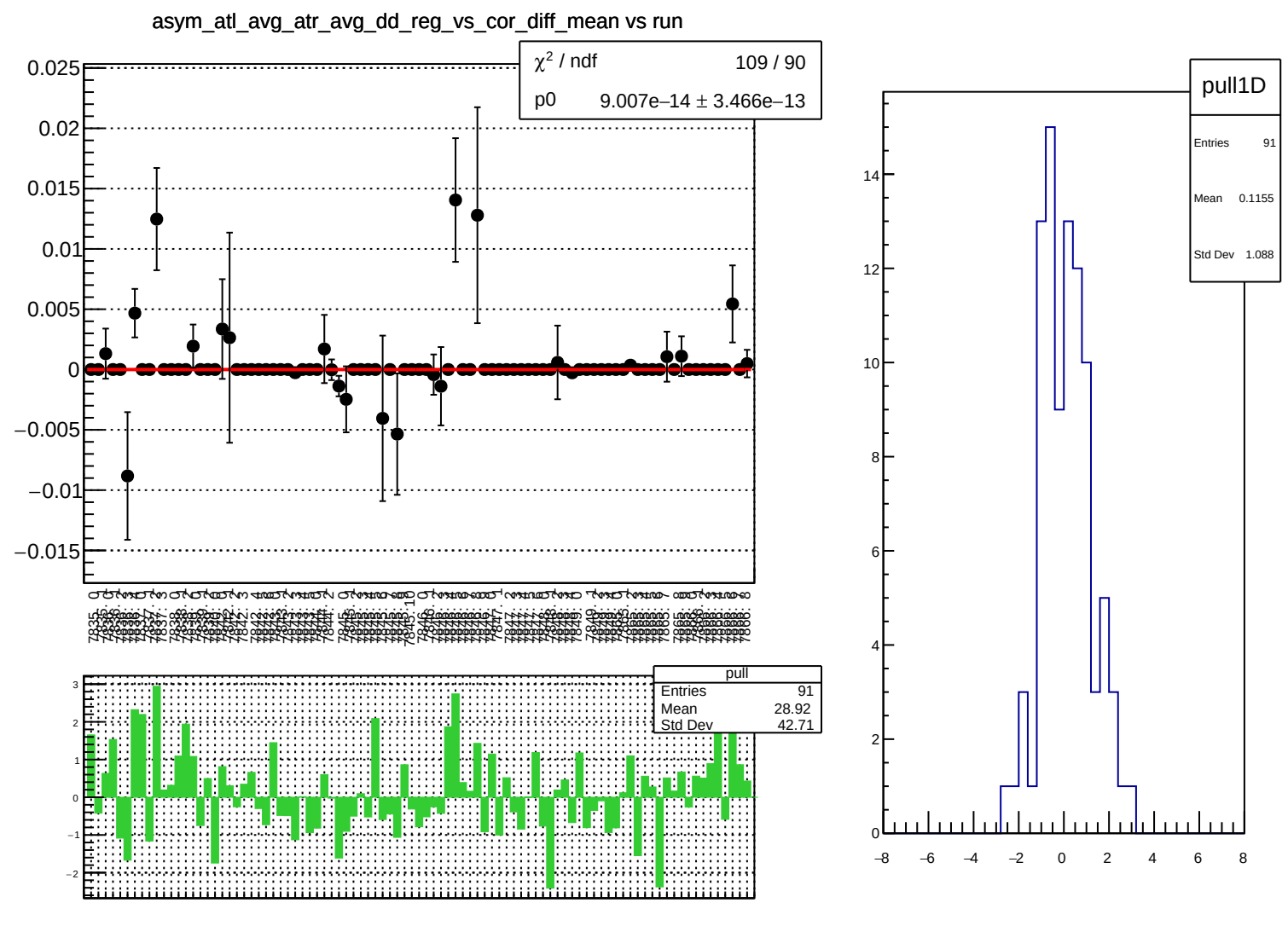

pull1D
Entries 91
Mean −0.01418
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

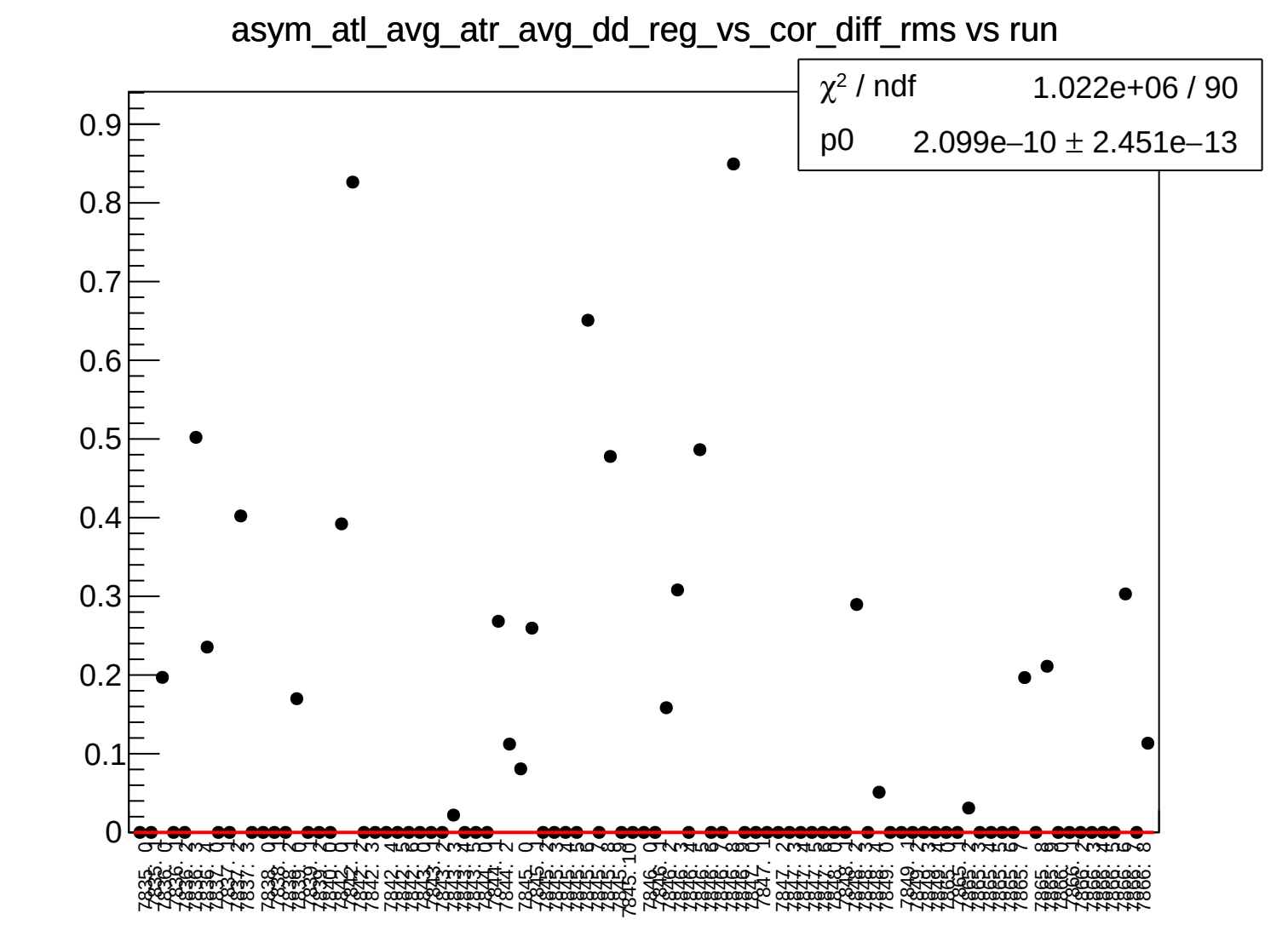

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.7e+04 / 90
p0 1752 ± 1.333
2600
2400
2200
2000
1800
1600
1400
1200

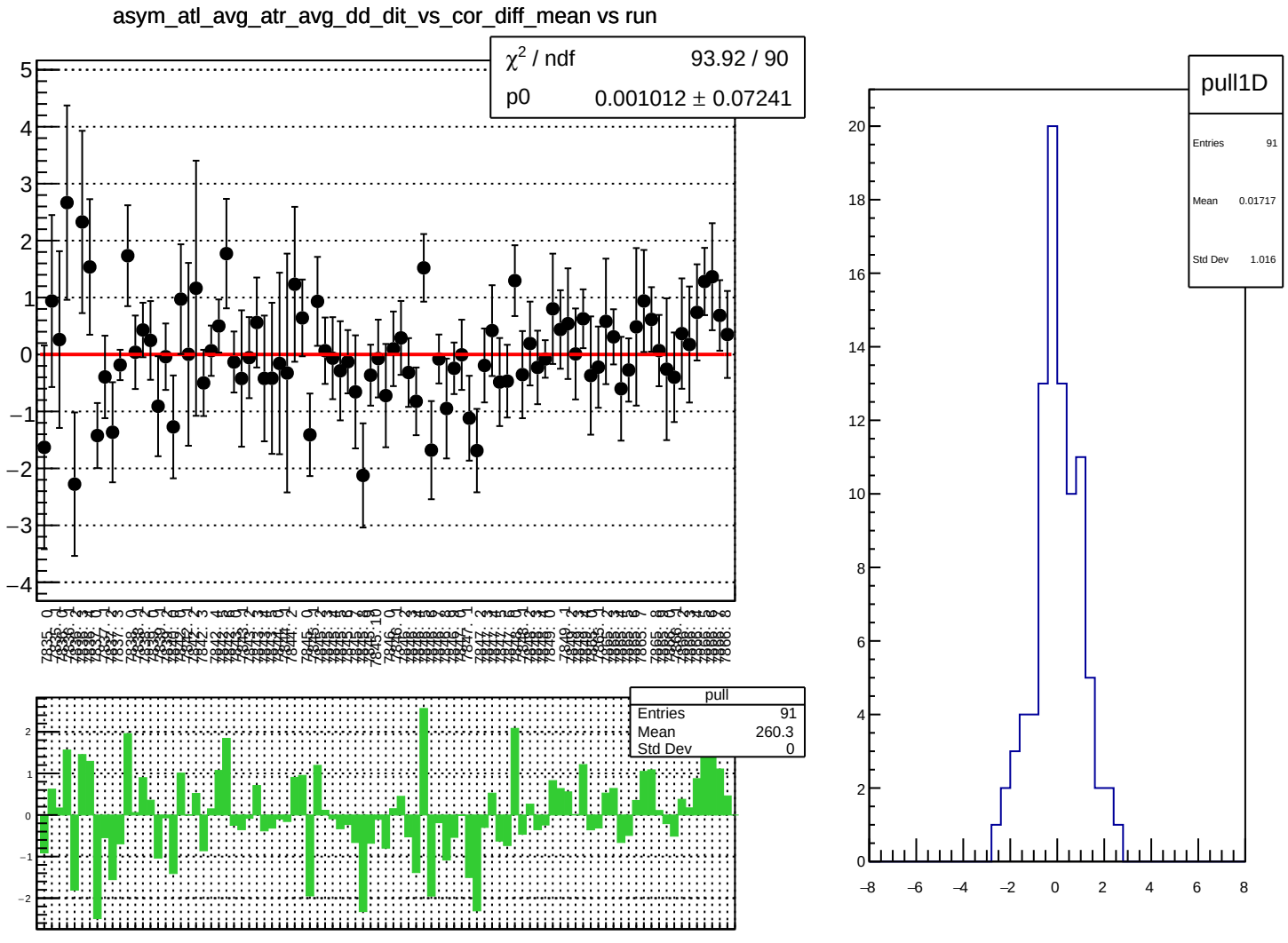

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 82.36 / 90
p0 −3773 ± 2312
pull
Entries 91
Mean −396.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

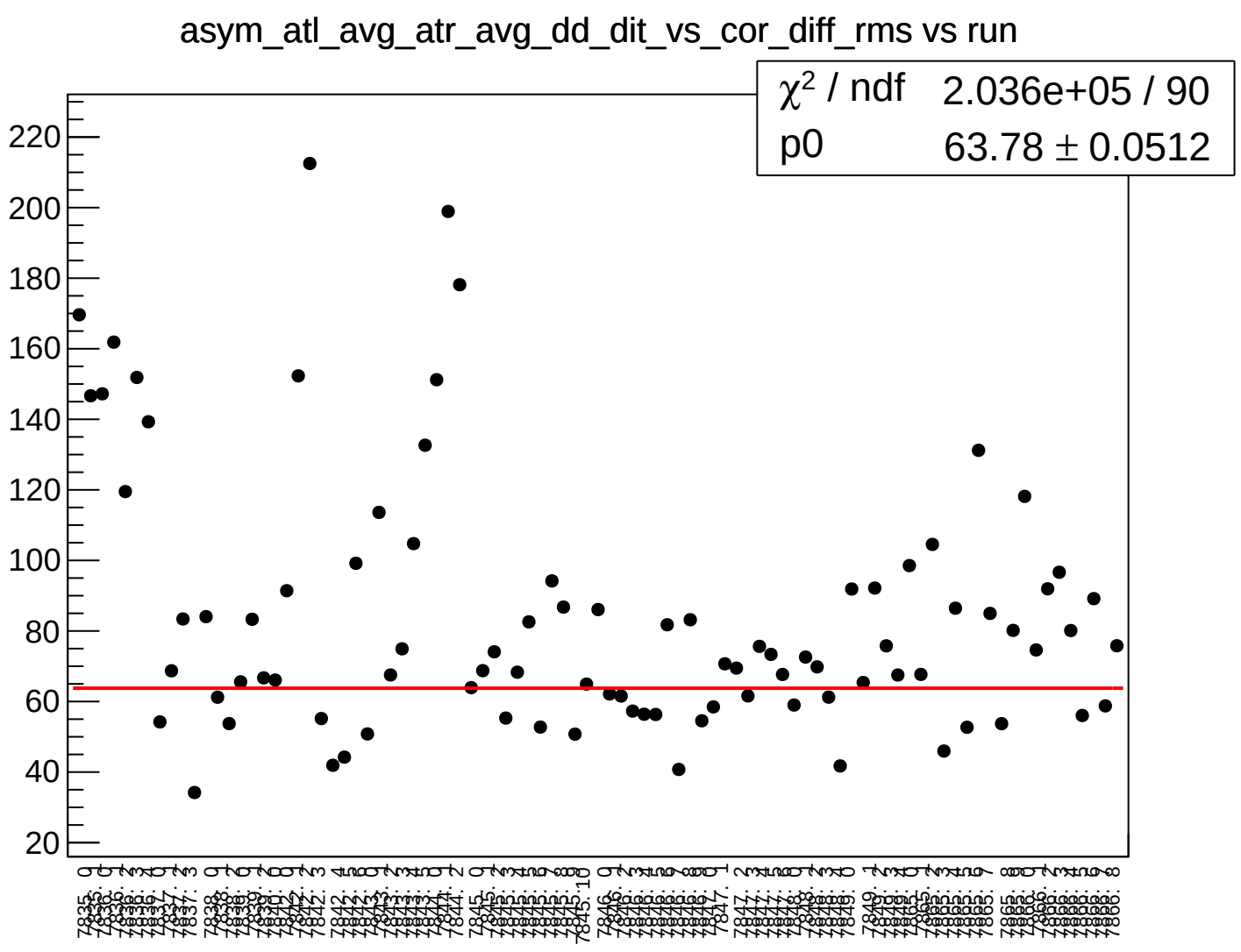

pull1D
Entries 91
Mean 0.004944
Std Dev 0.9513
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

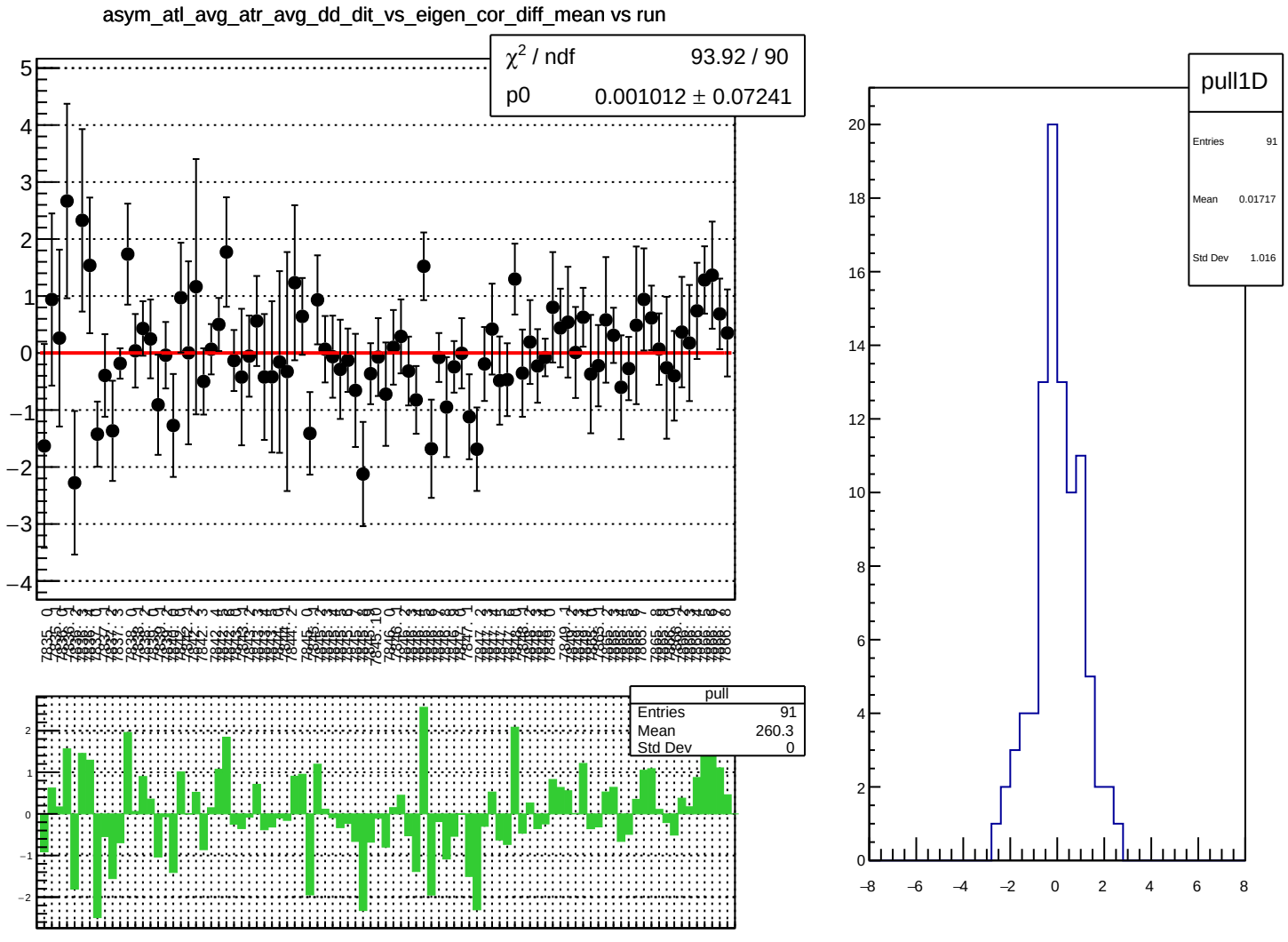

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.398e+04 / 90
p0 2157 ± 1.635
2800
2600
2400
2200
2000
1800

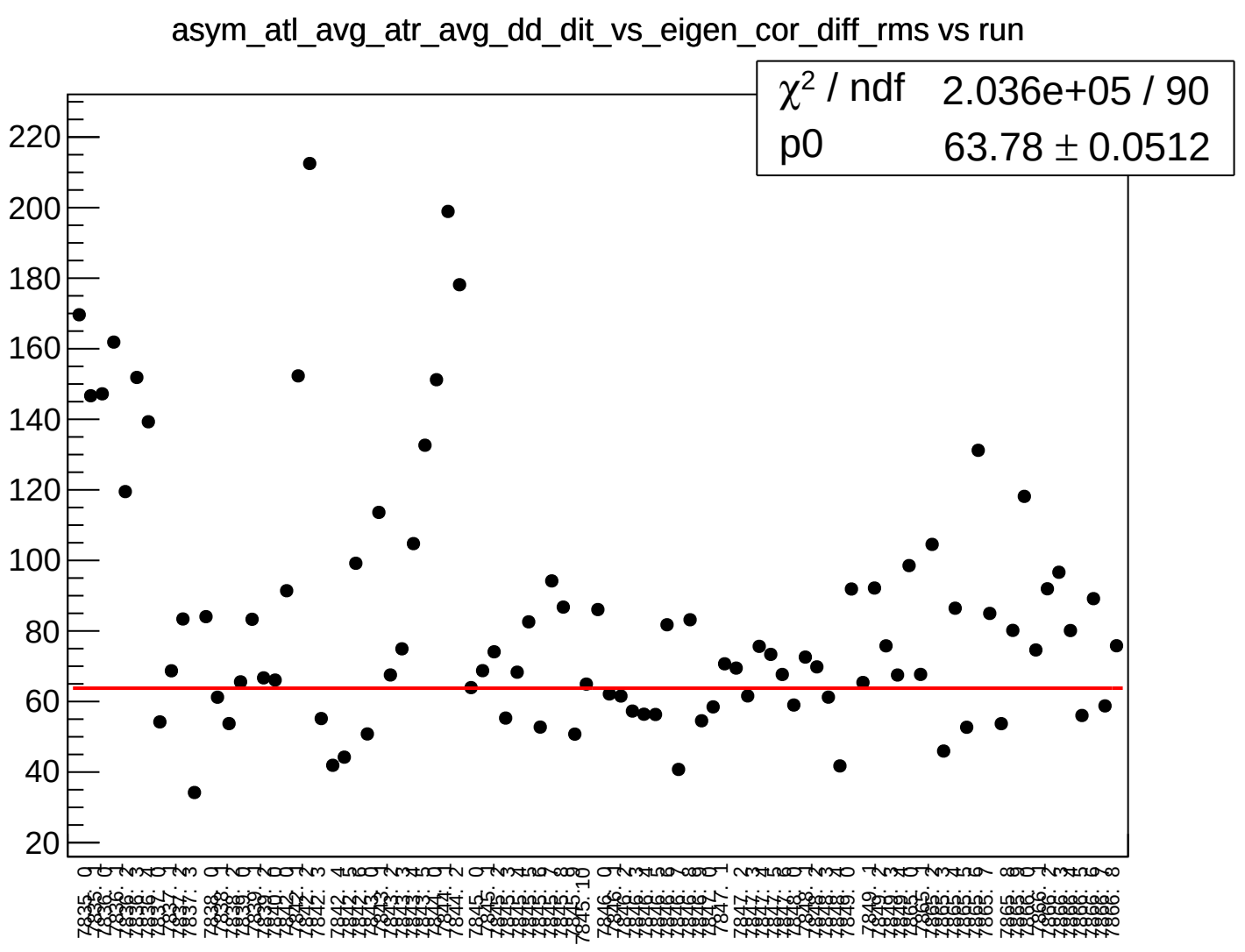

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 90
p0 9.007e−14 ± 3.466e−13
pull
Entries 91
Mean 28.92
Std Dev 42.71
pull1D
Entries 91
Mean 0.1155
Std Dev 1.088

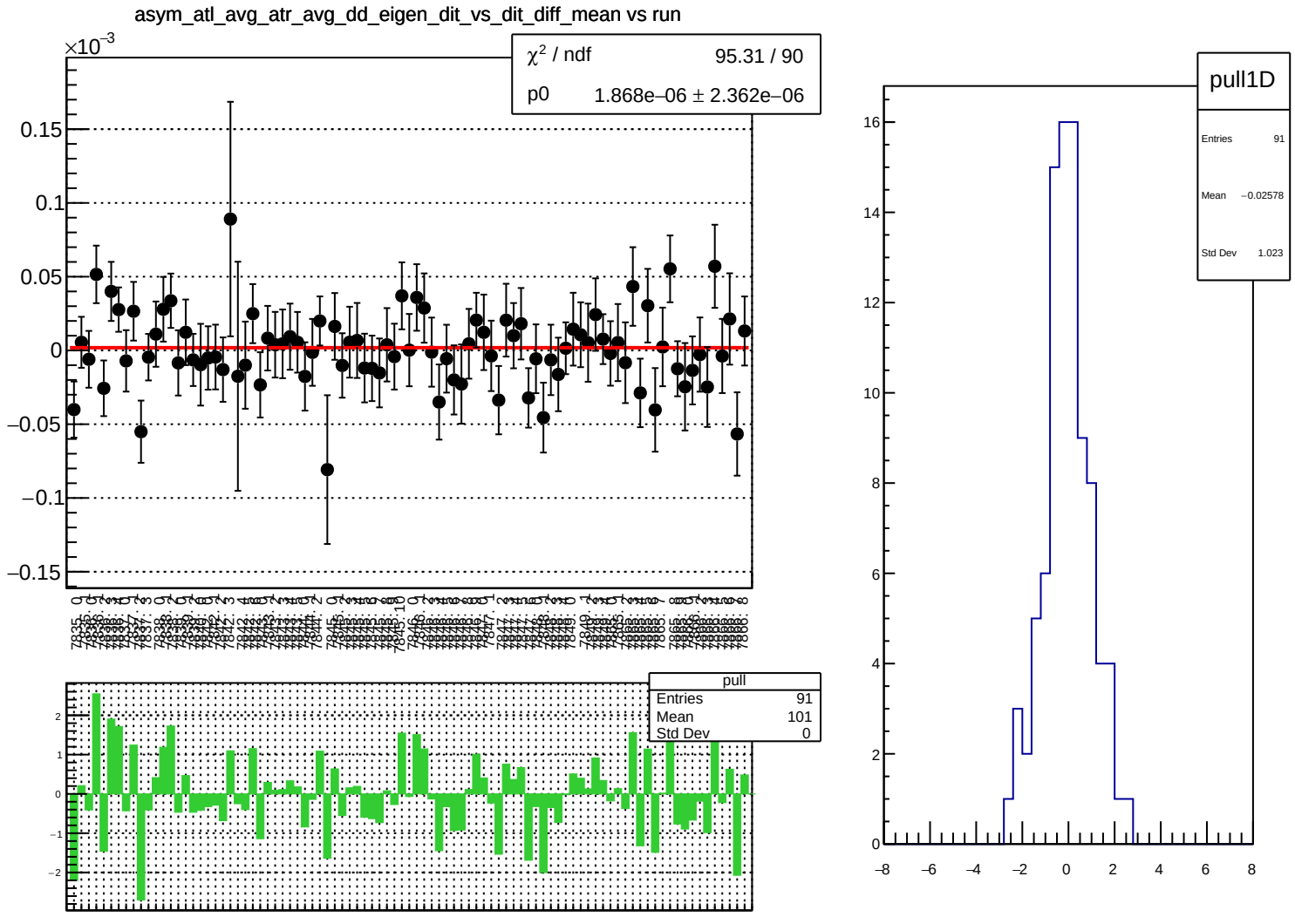

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 90
p0 2.099e−10 ± 2.451e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

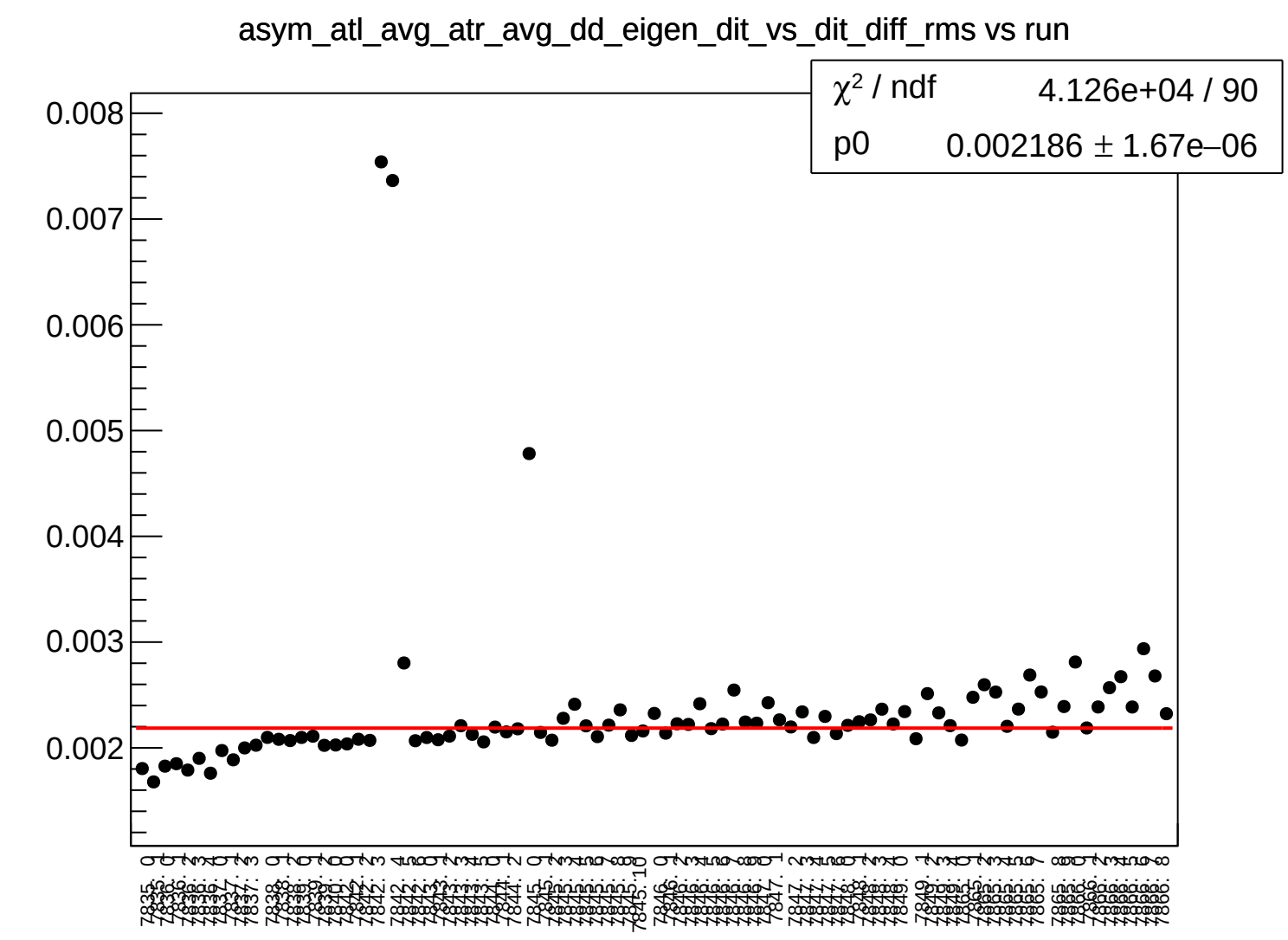

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001012 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0
pull1D
Entries 91
Mean 0.01717
Std Dev 1.016

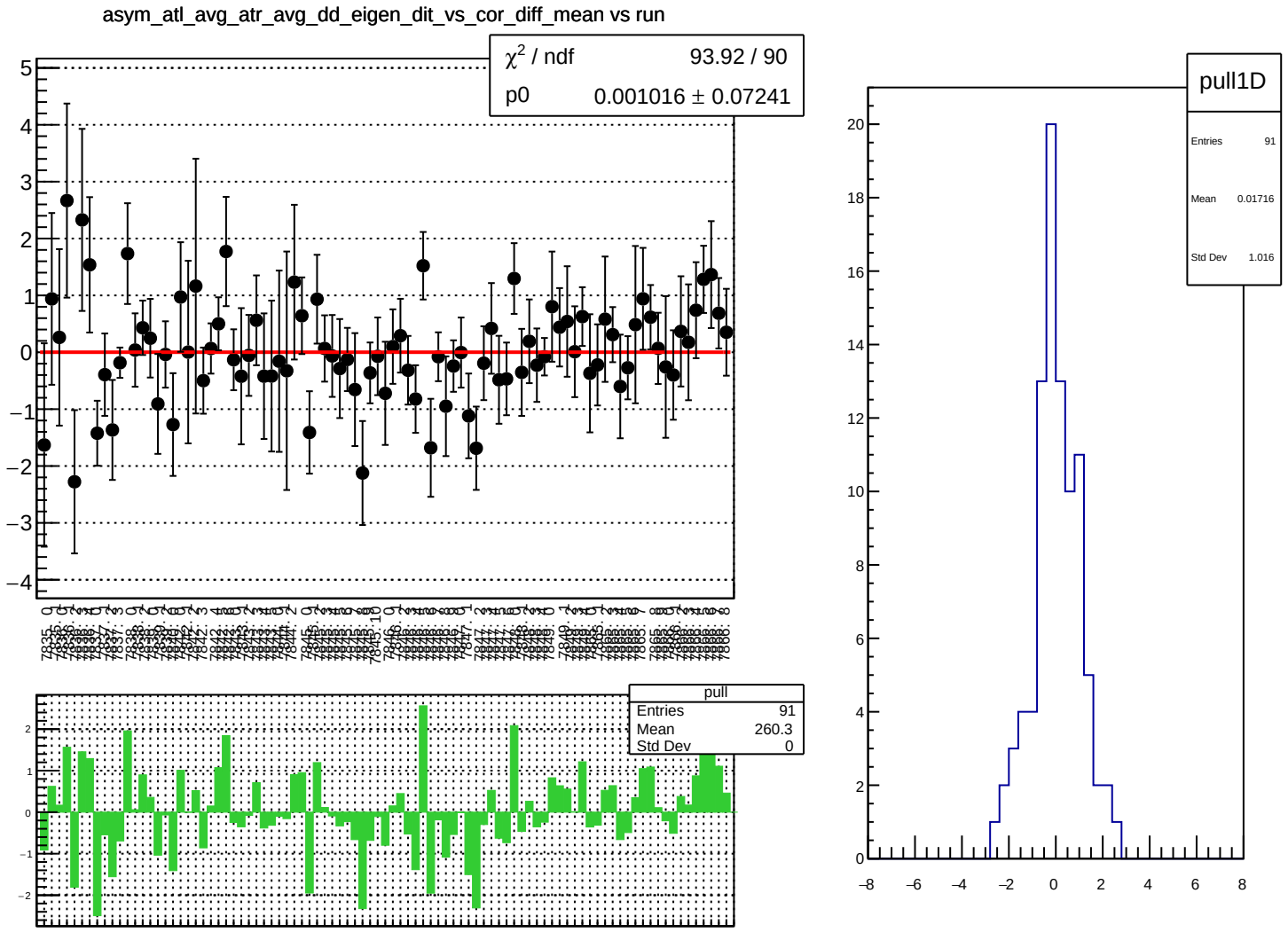

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

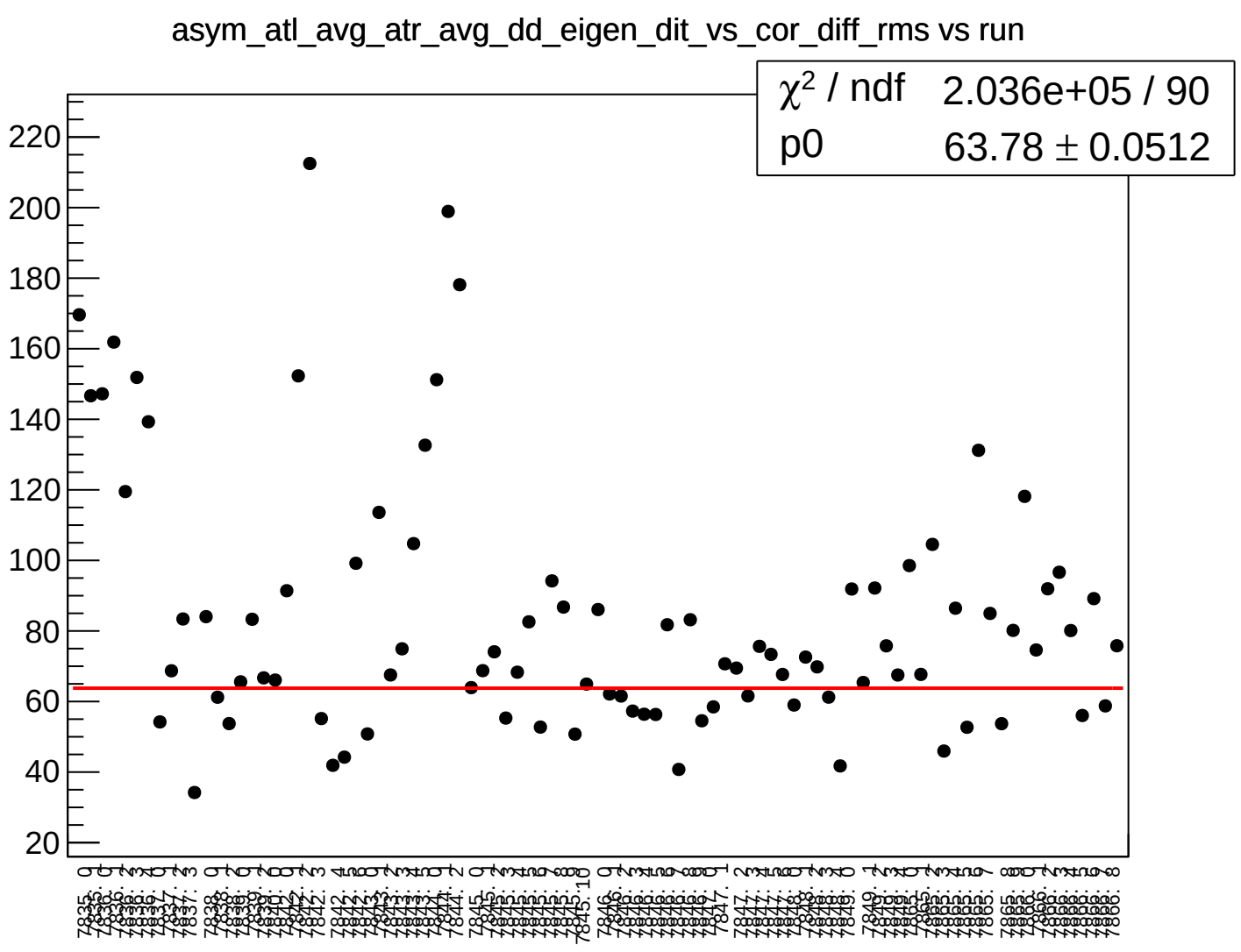

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001012 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0
pull1D
Entries 91
Mean 0.01717
Std Dev 1.016

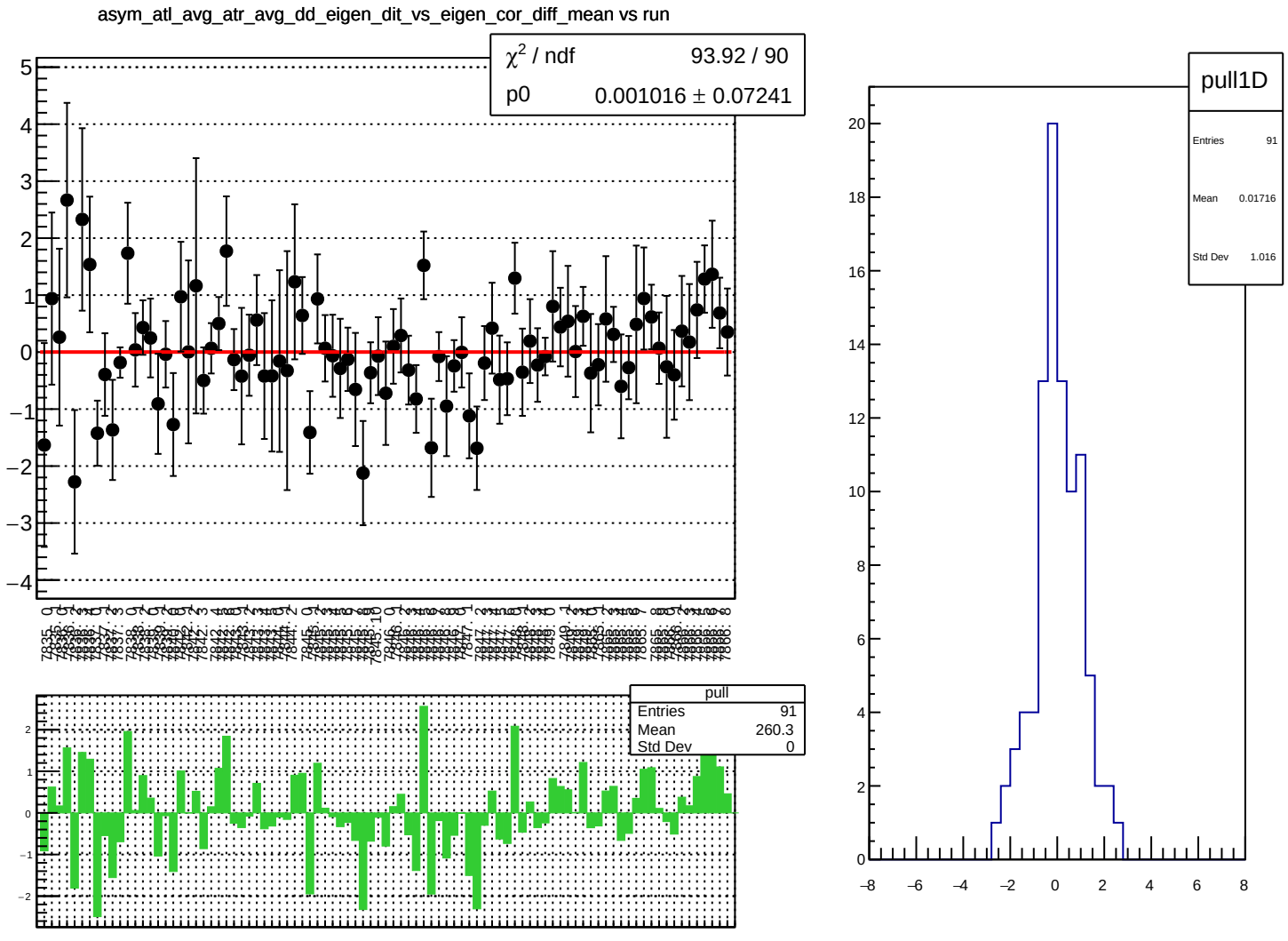

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

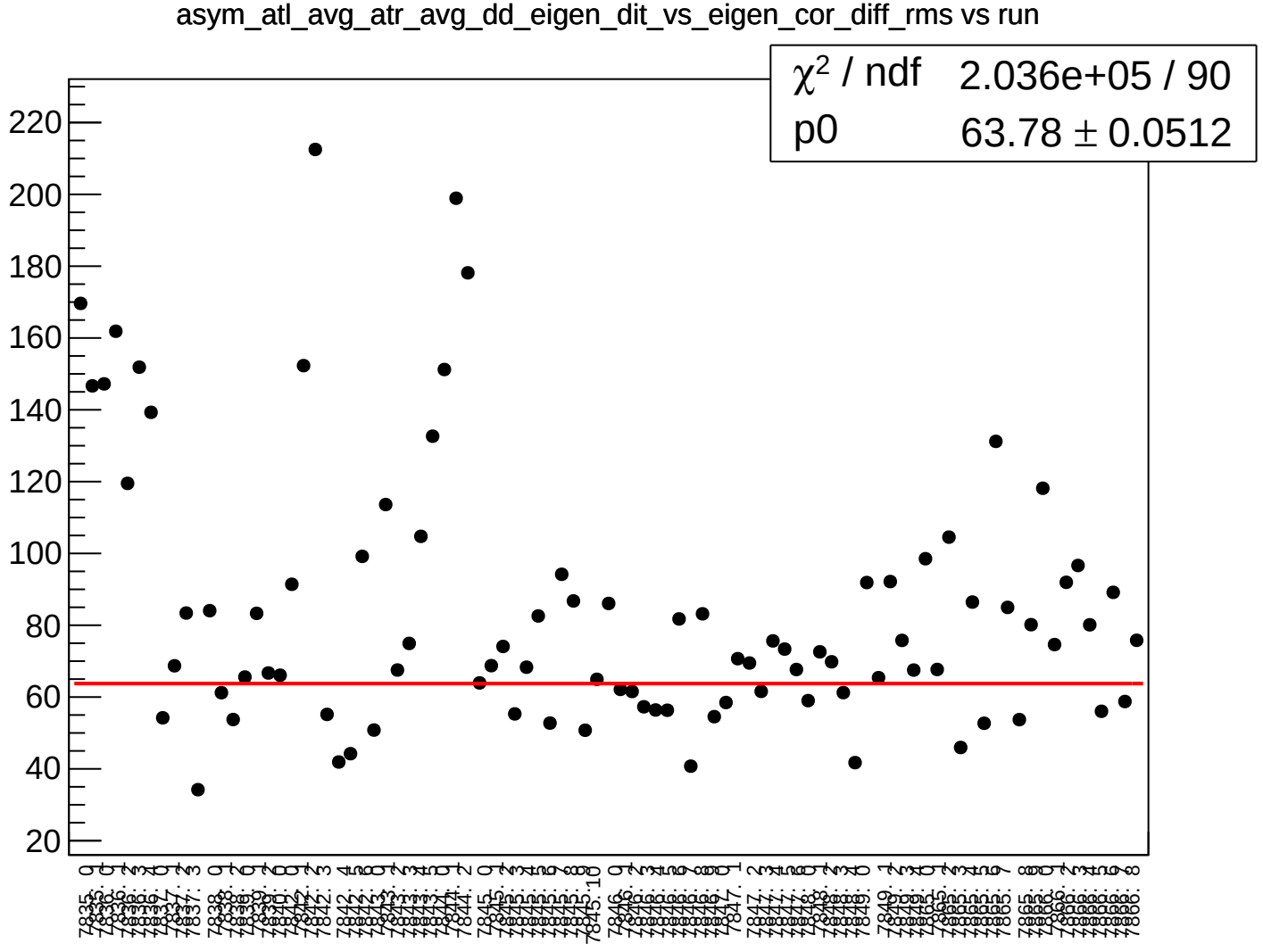

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.31 / 90
p0 1.868e−06 ± 2.362e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 101
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02578
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

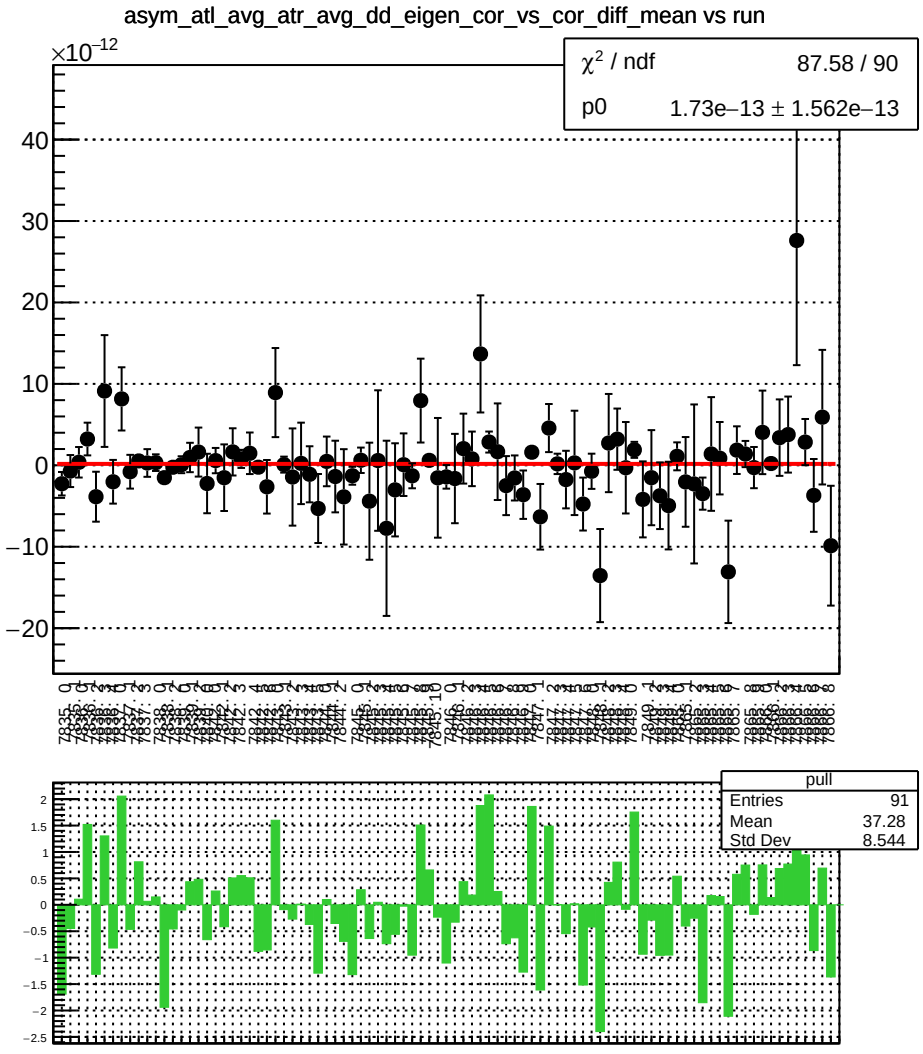

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.126e+04 / 90
p0 0.002186 ± 1.67e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

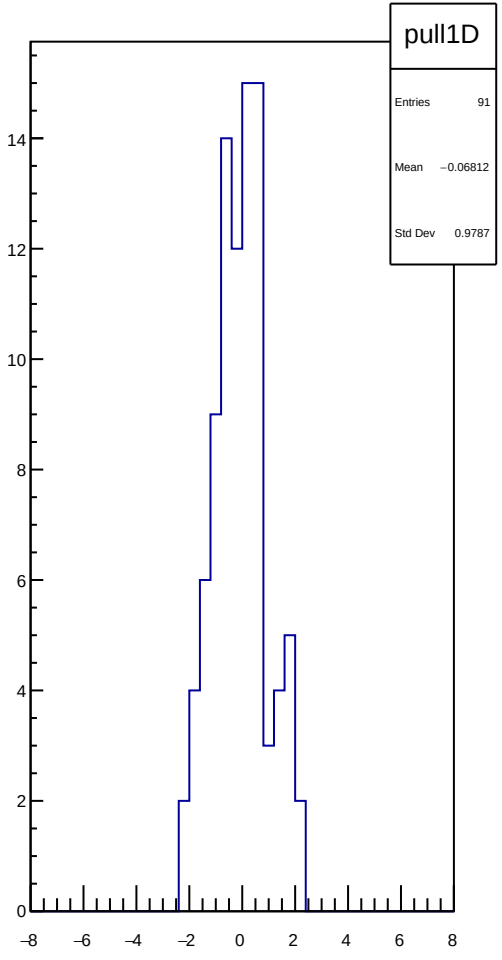

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001016 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0
pull1D
Entries 91
Mean 0.01716
Std Dev 1.016

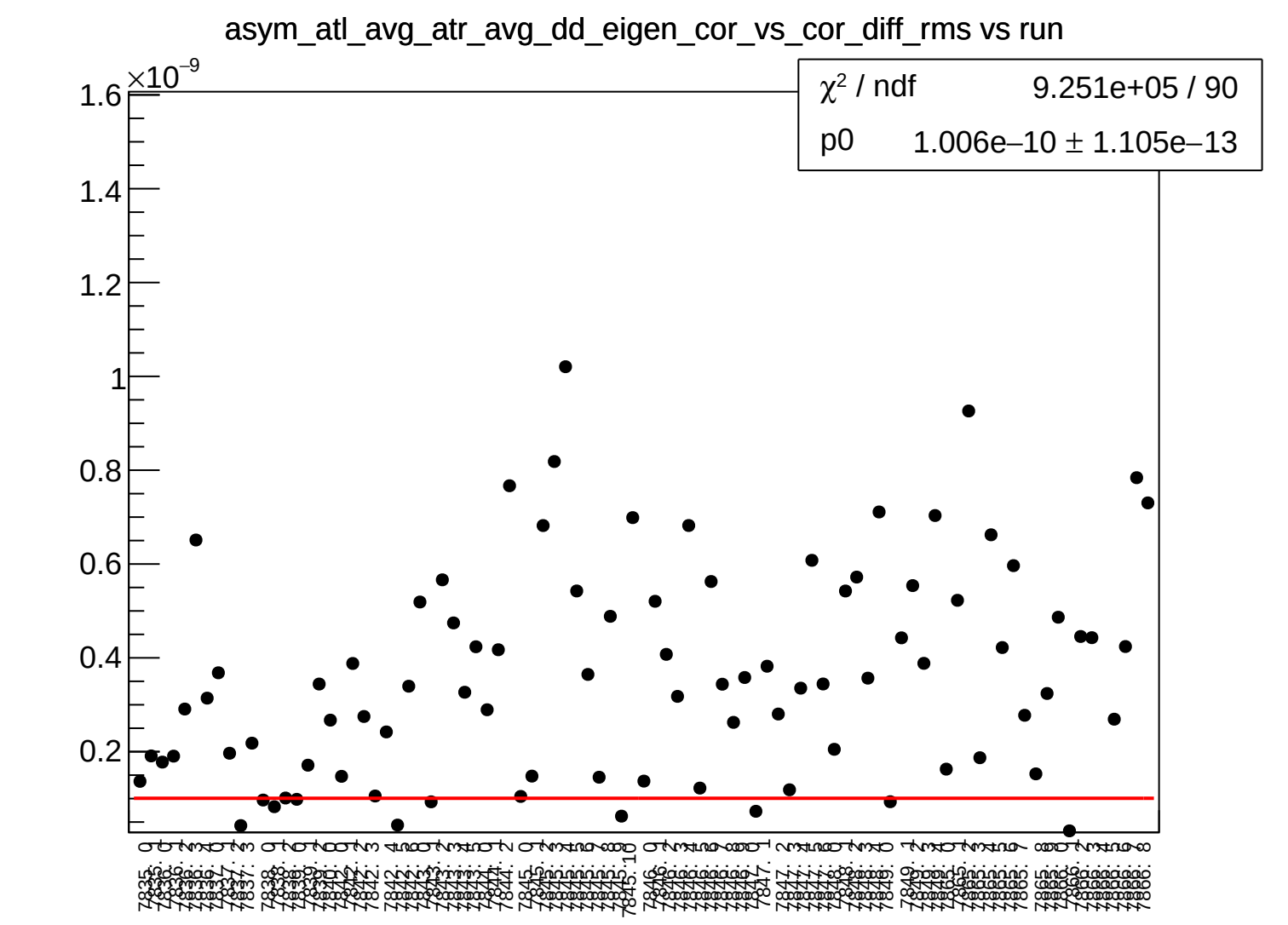

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

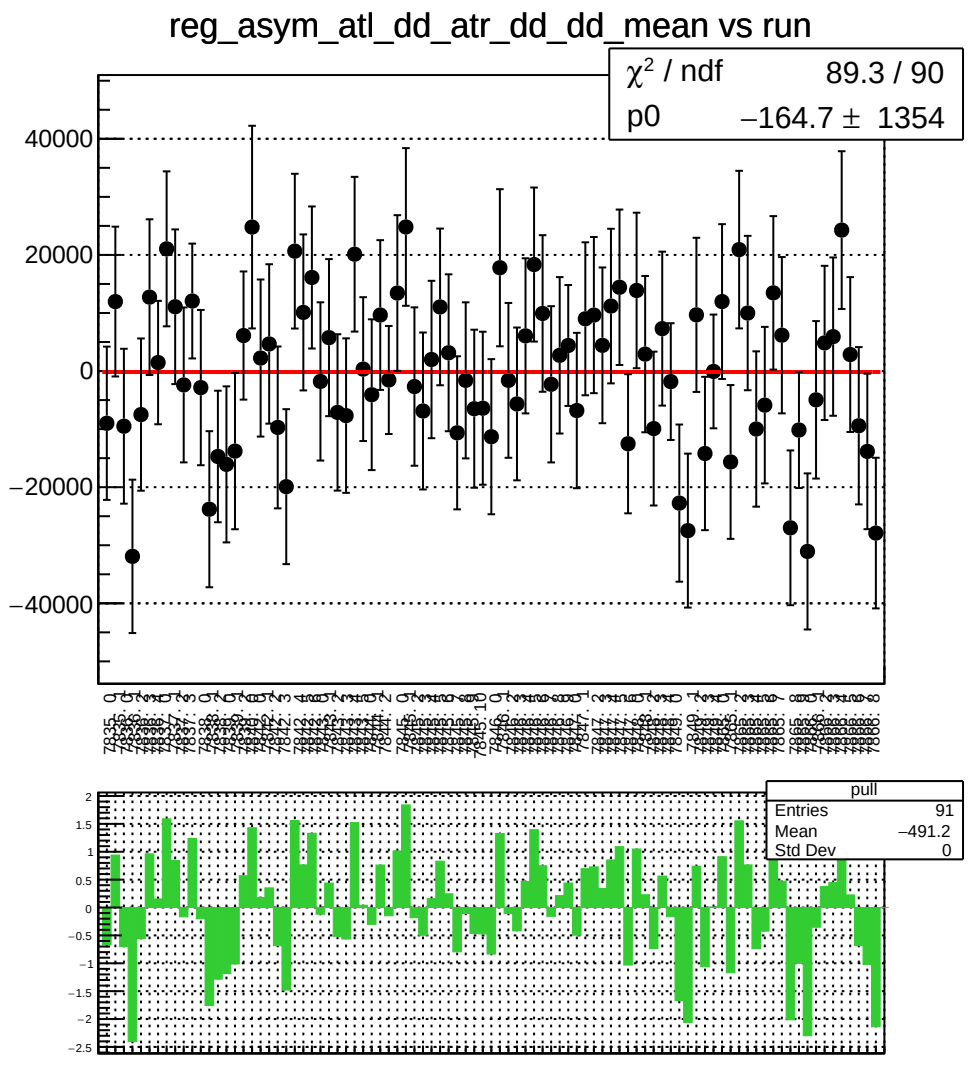

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001016 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0
pull1D
Entries 91
Mean 0.01716
Std Dev 1.016

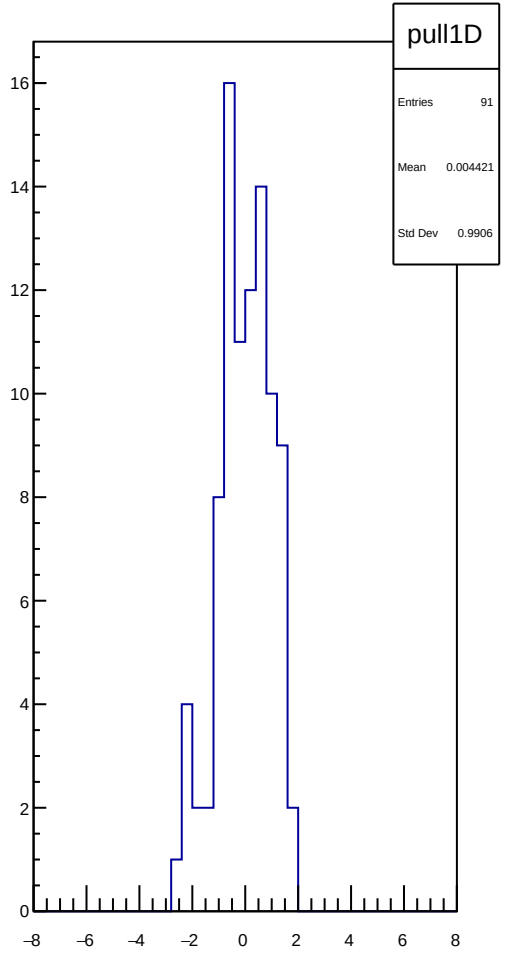

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

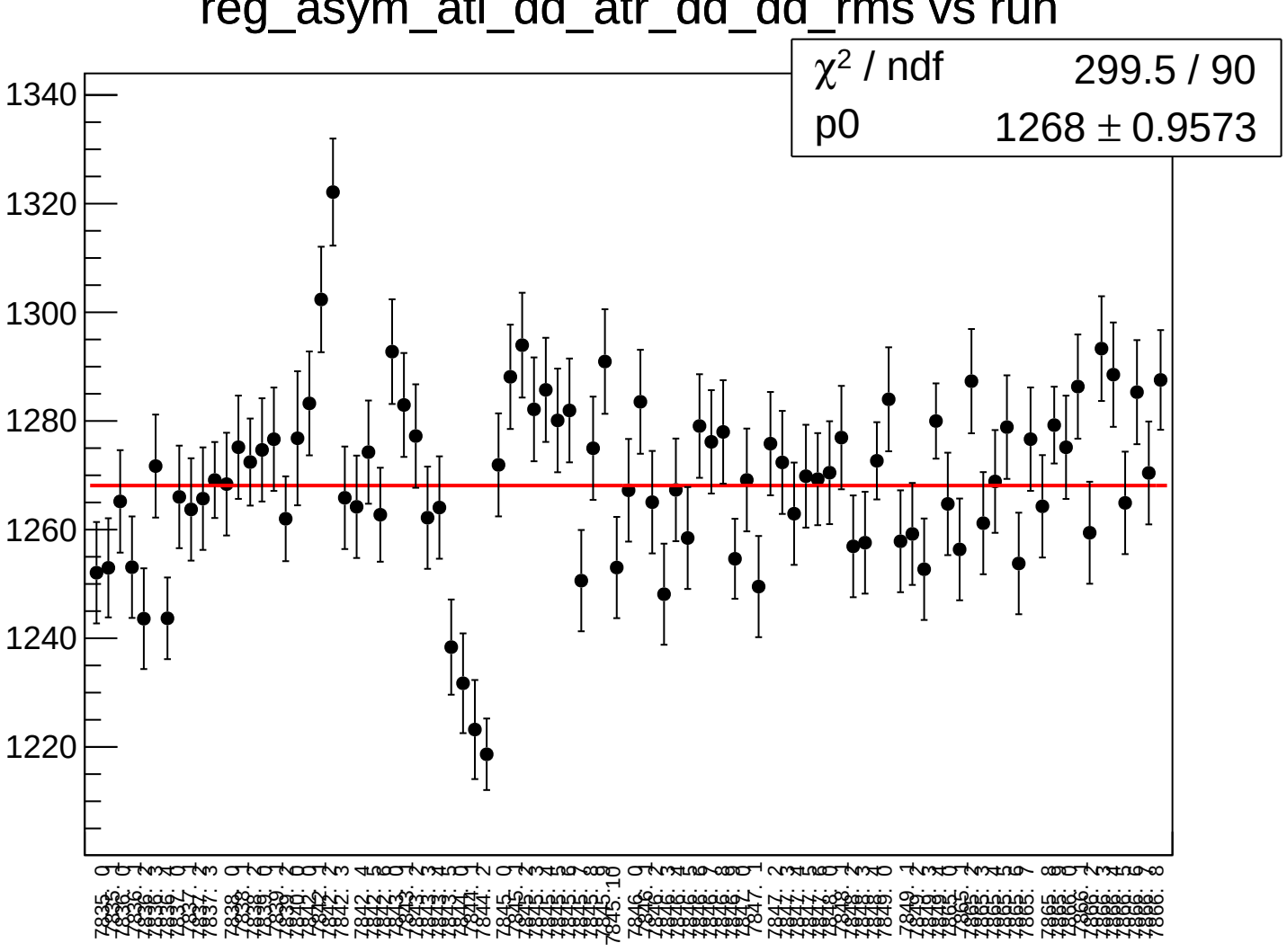

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.58 / 90
p0 1.73e−13 ± 1.562e−13
pull
Entries 91
Mean 37.28
Std Dev 8.544

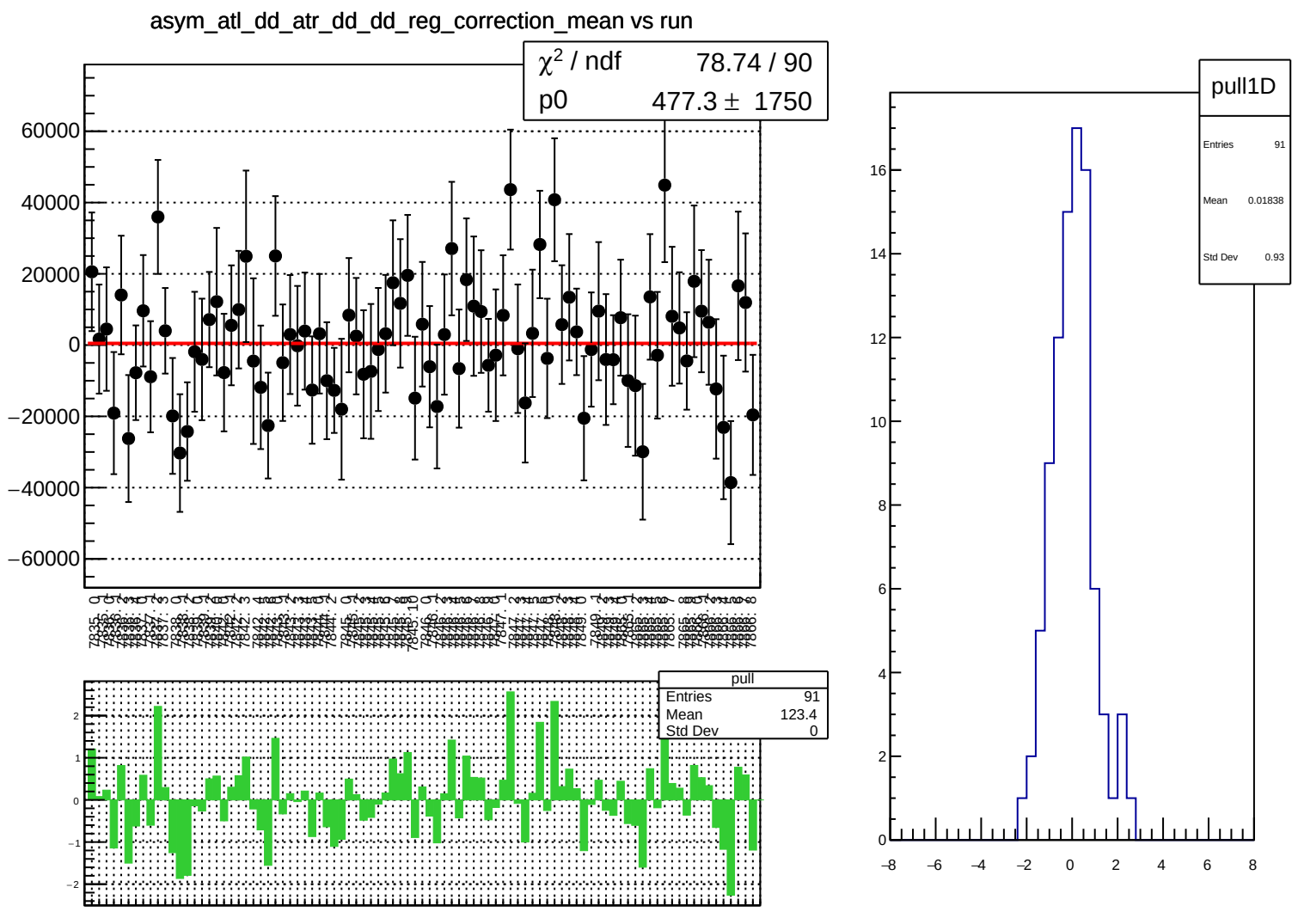

pull1D
Entries 91
Mean −0.06812
Std Dev 0.9787

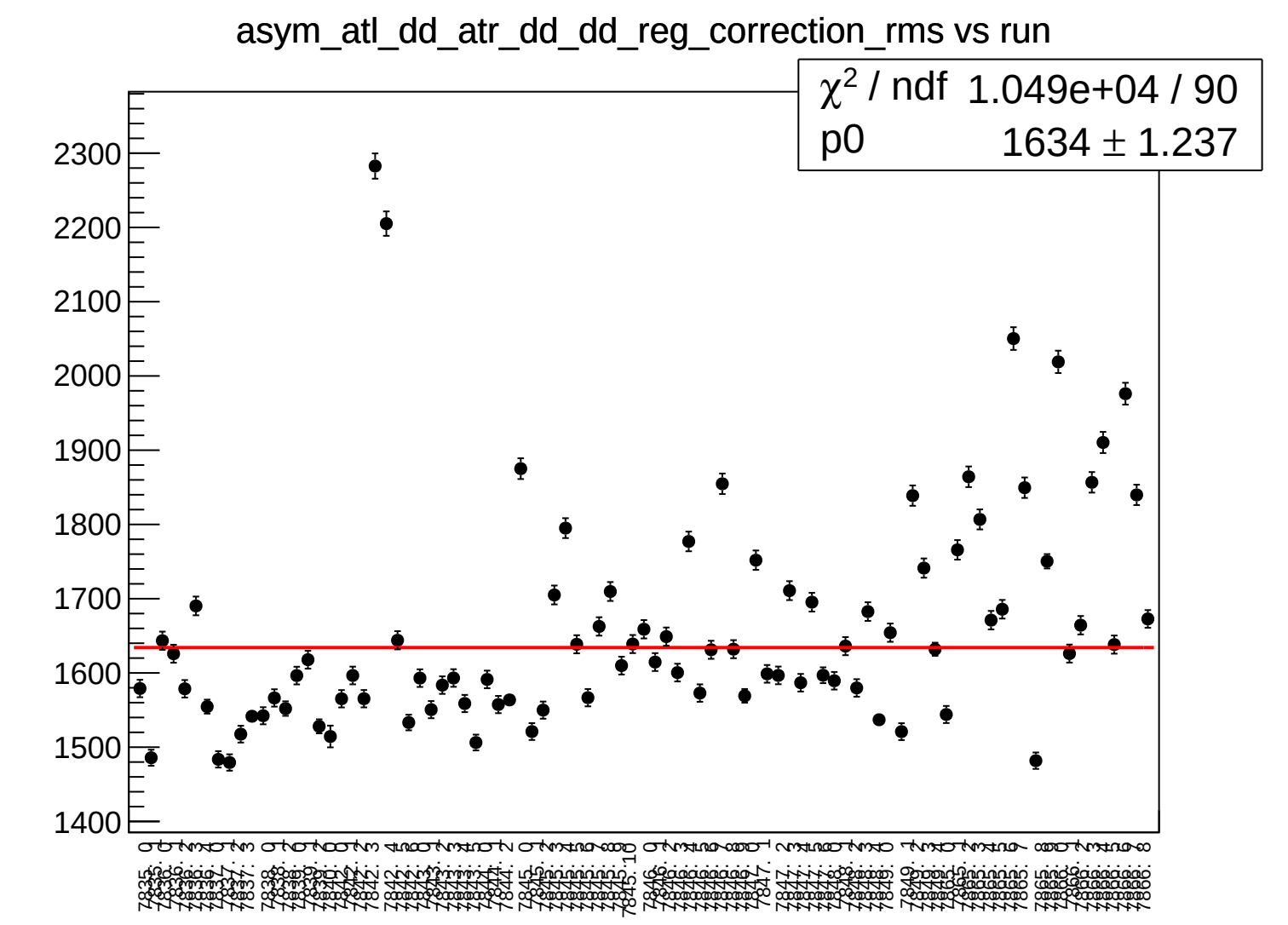

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.251e+05 / 90
p0 1.006e−10 ± 1.105e−13

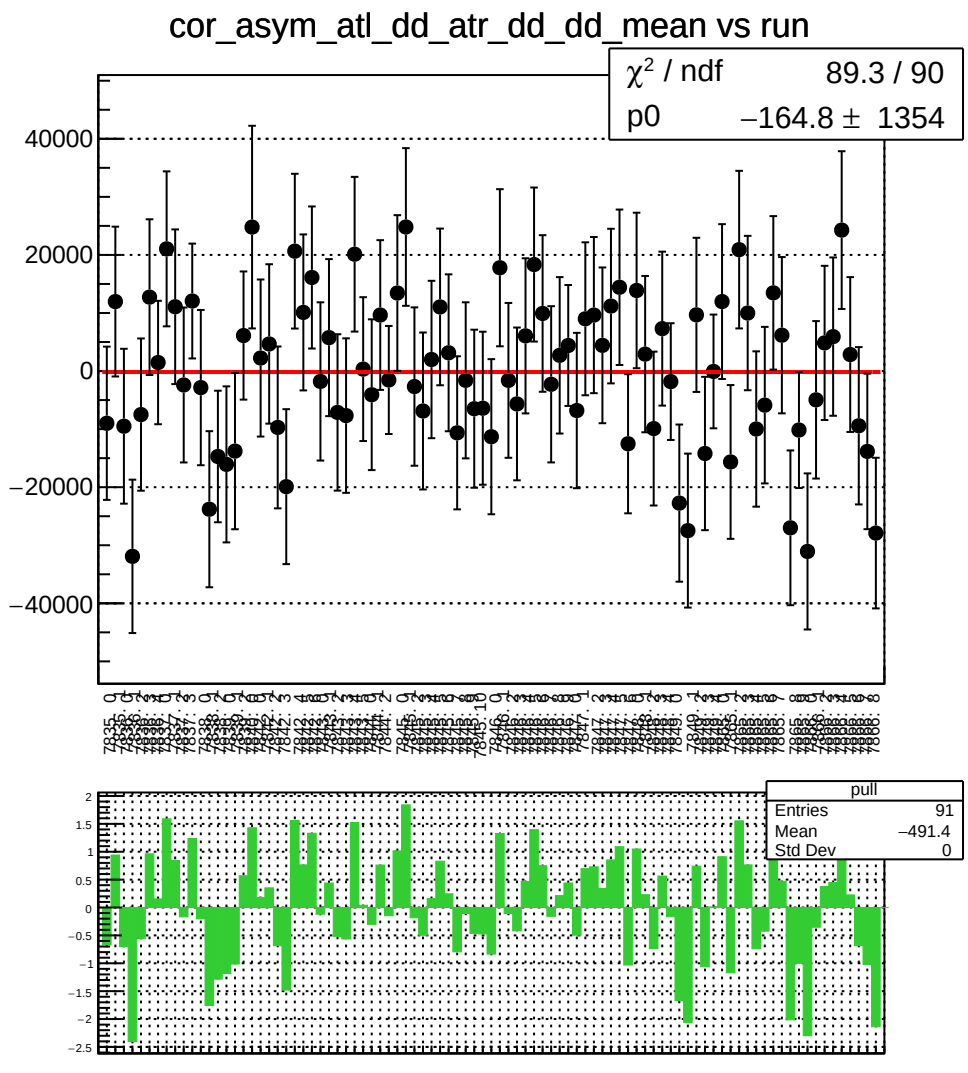

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.3 / 90
p0 −164.7 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

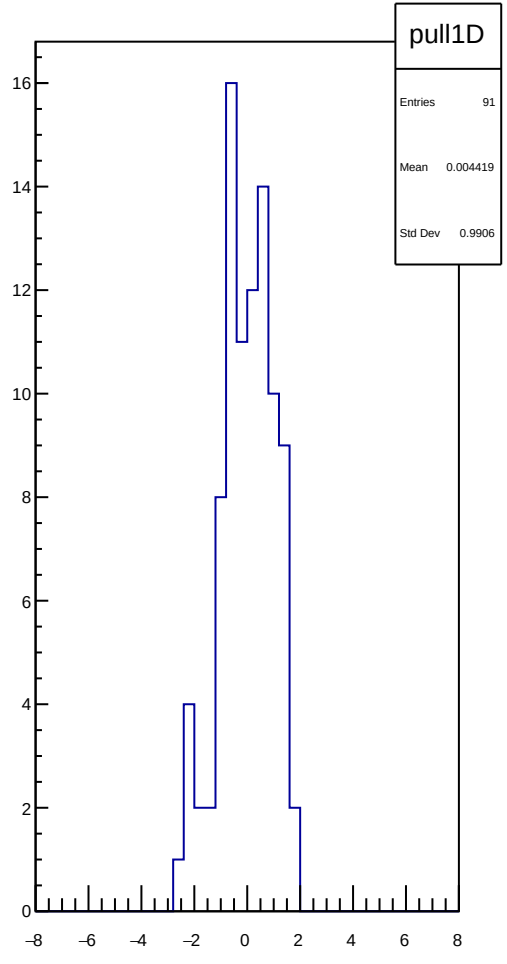

pull1D
Entries 91
Mean 0.004421
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

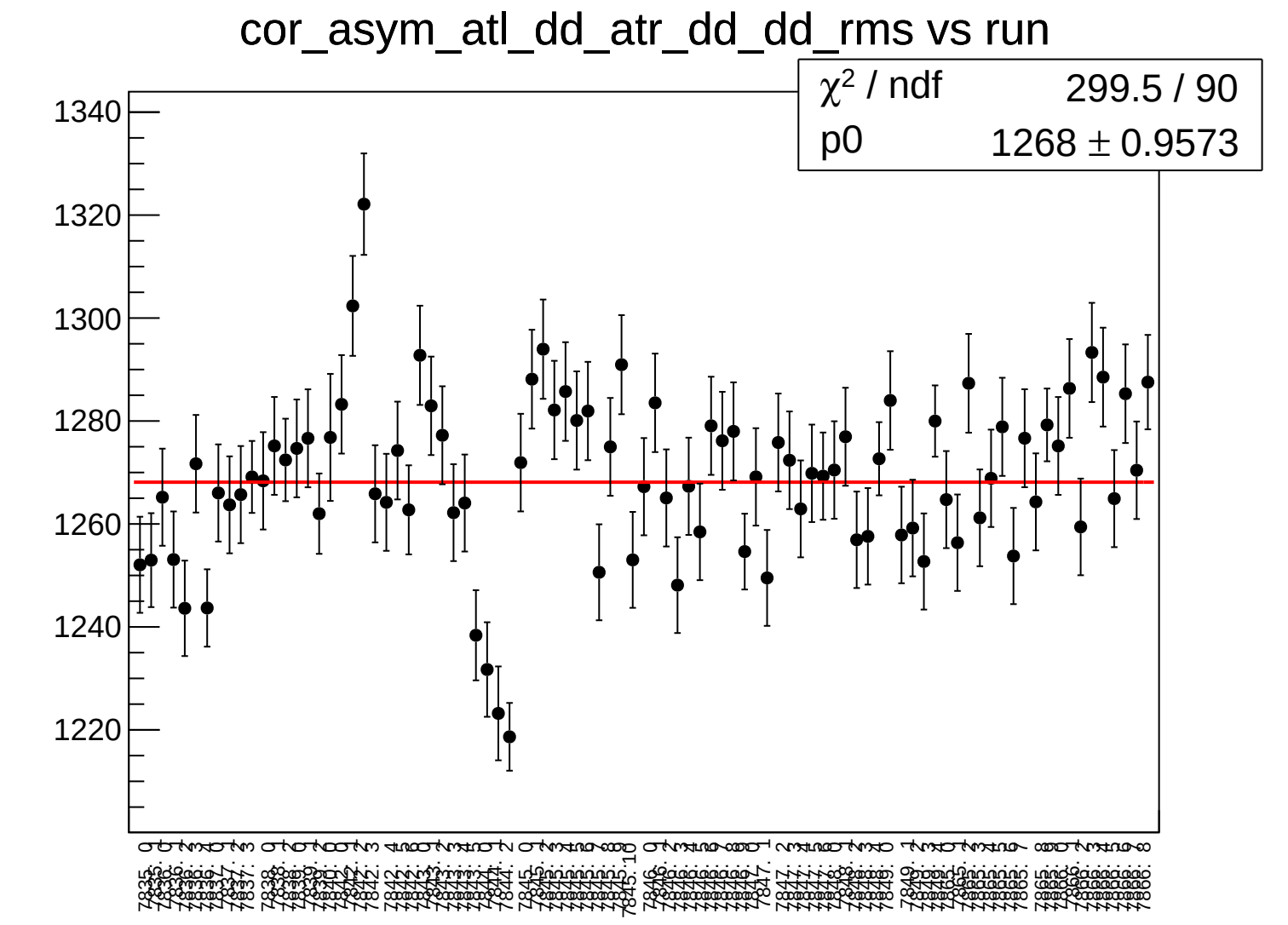

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 299.5 / 90
p0 1268 ± 0.9573
1340
1320
1300
1280
1260
1240
1220

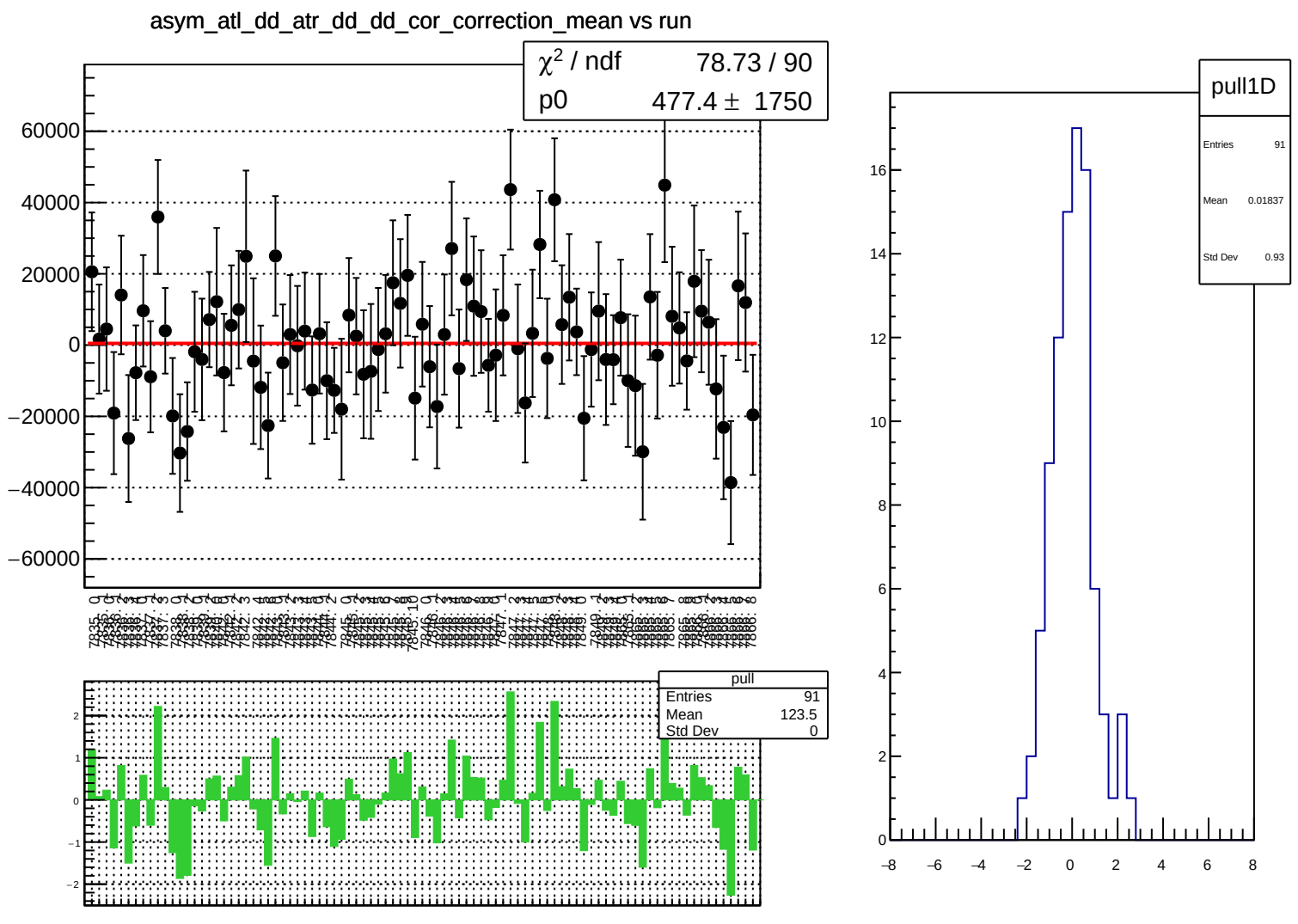

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 78.74 / 90
p0 477.3 ± 1750
pull
Entries 91
Mean 123.4
Std Dev 0
pull1D
Entries 91
Mean 0.01838
Std Dev 0.93

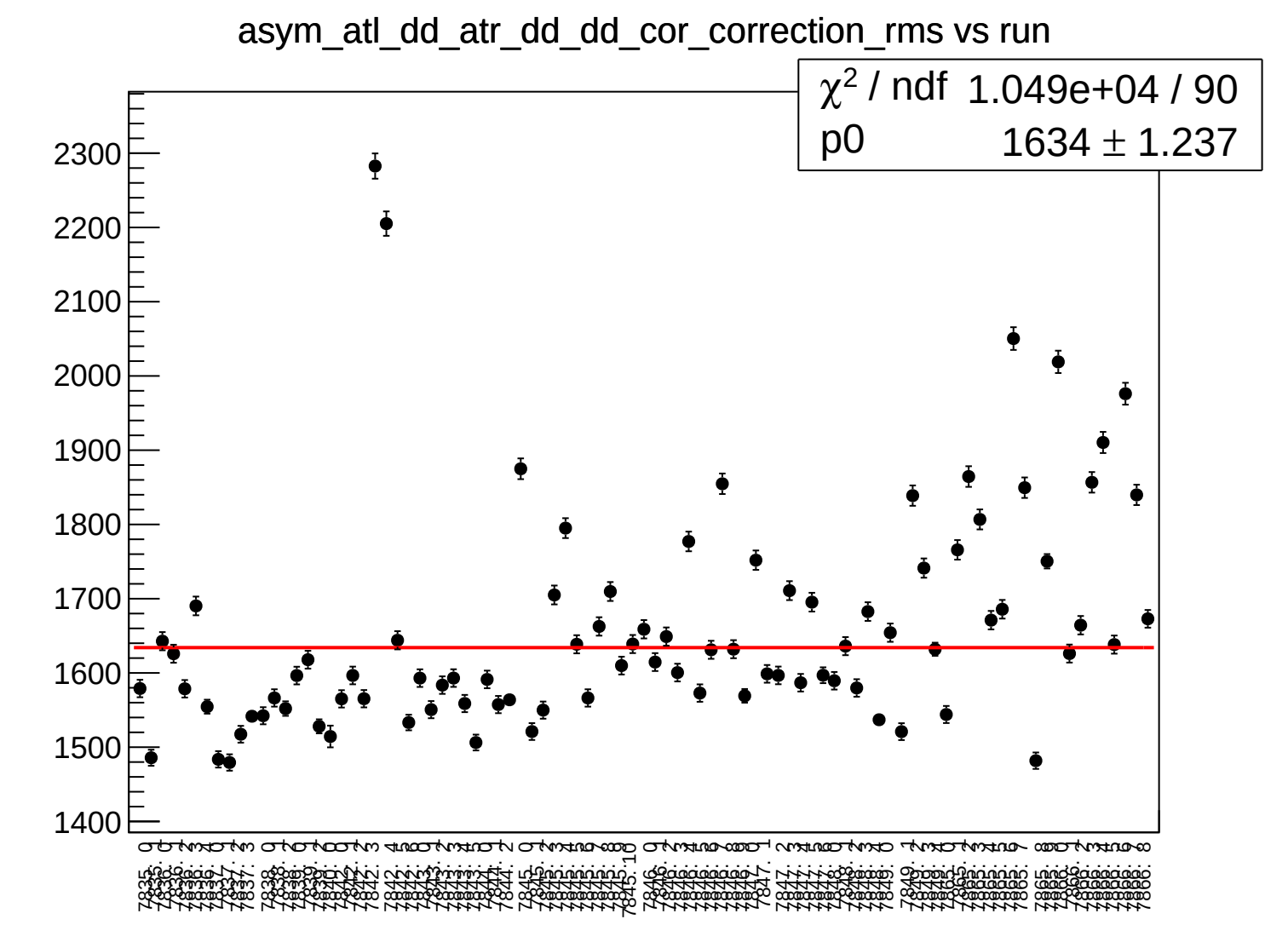

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.049e+04 / 90
p0 1634 ± 1.237
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

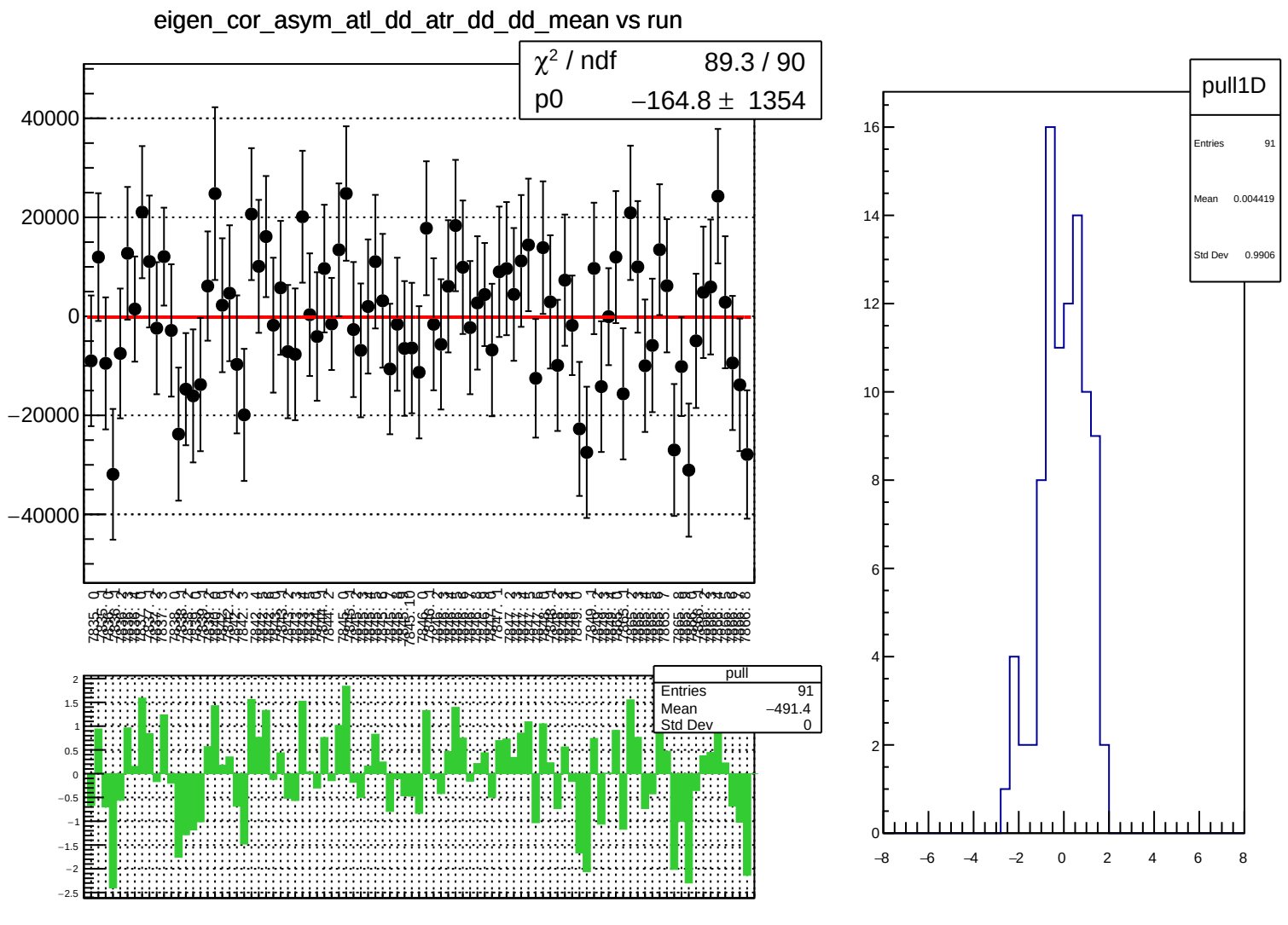

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.3 / 90
p0 −164.8 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

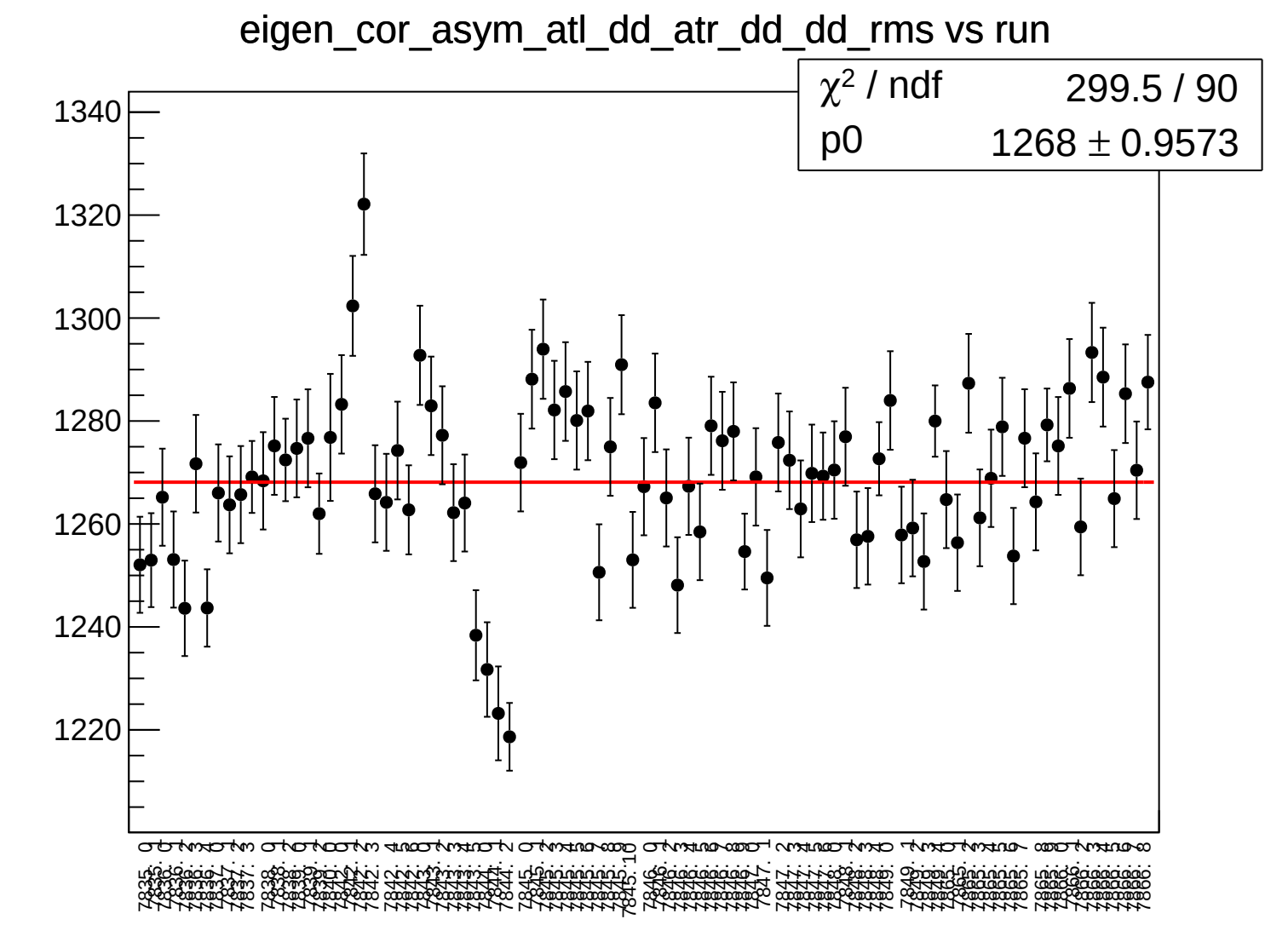

pull1D
Entries 91
Mean 0.004419
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

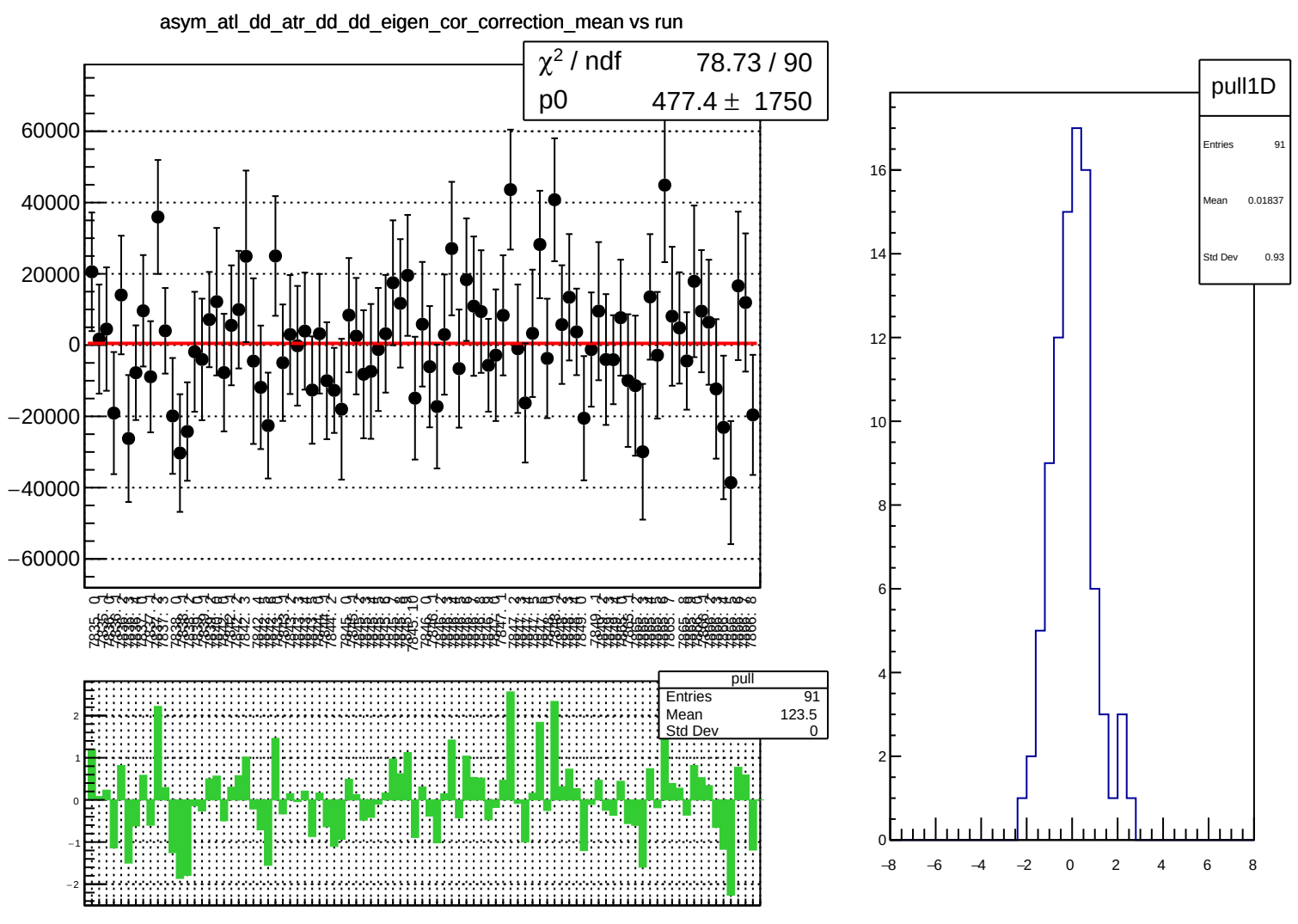

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 299.5 / 90
p0 1268 ± 0.9573
1340
1320
1300
1280
1260
1240
1220

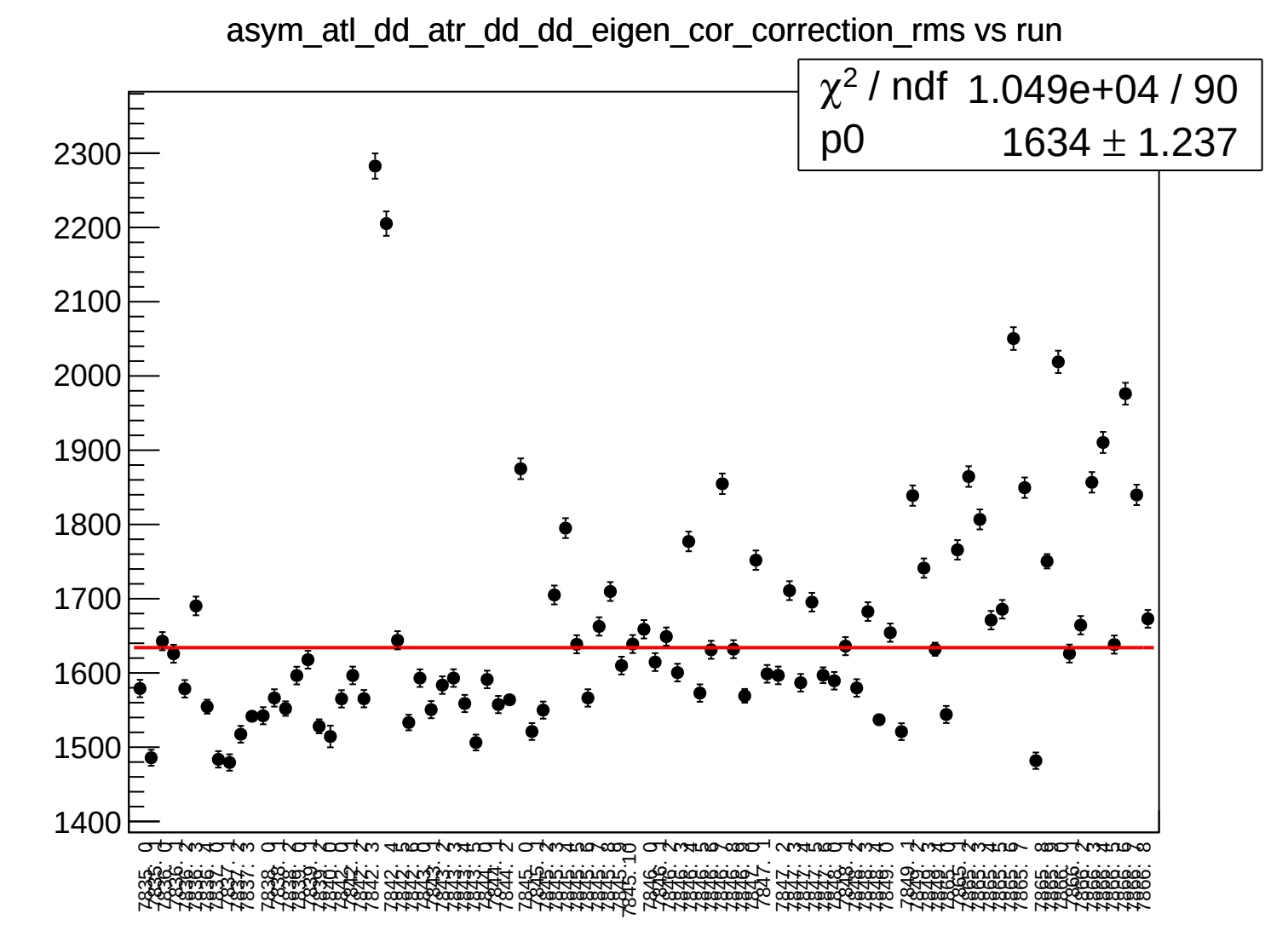

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 78.73 / 90
p0 477.4 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 123.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01837
Std Dev 0.93
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

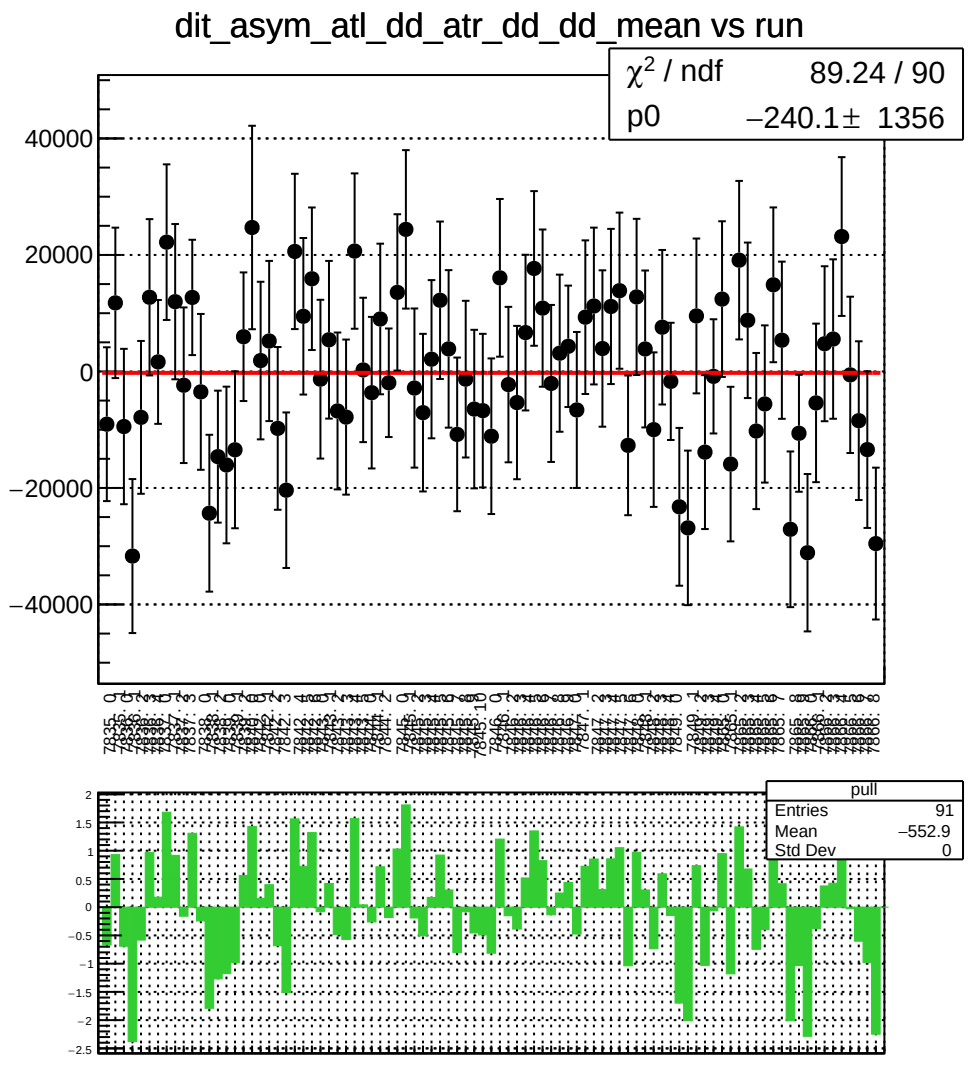

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 90
p0 1634 ± 1.237
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

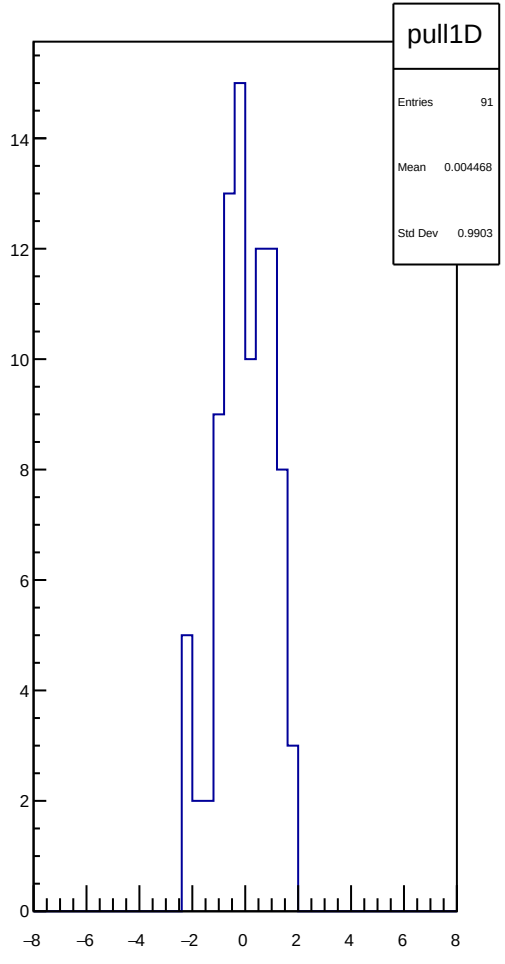

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.3 / 90
p0 −164.8 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.004419
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

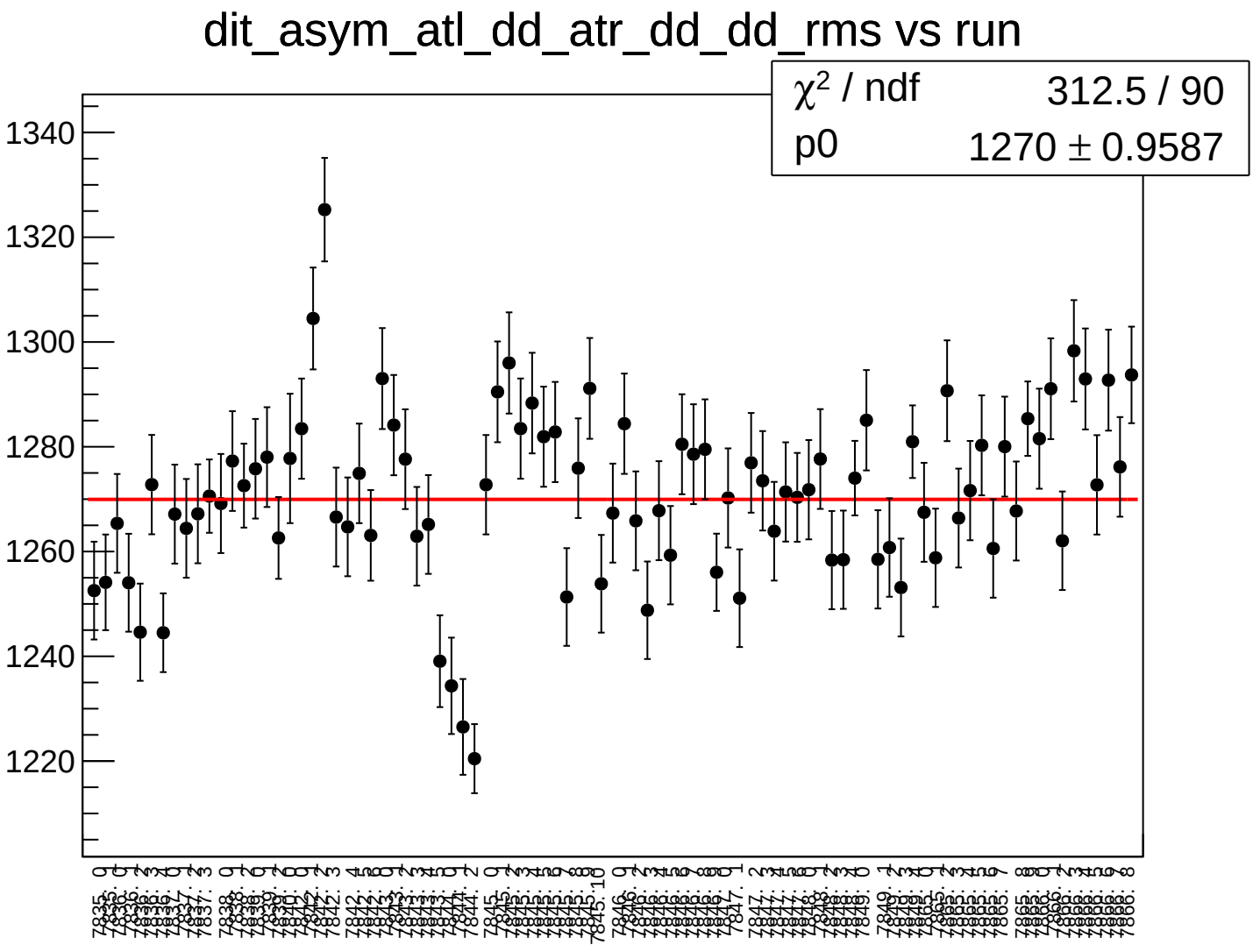

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 299.5 / 90
p0 1268 ± 0.9573
1340
1320
1300
1280
1260
1240
1220

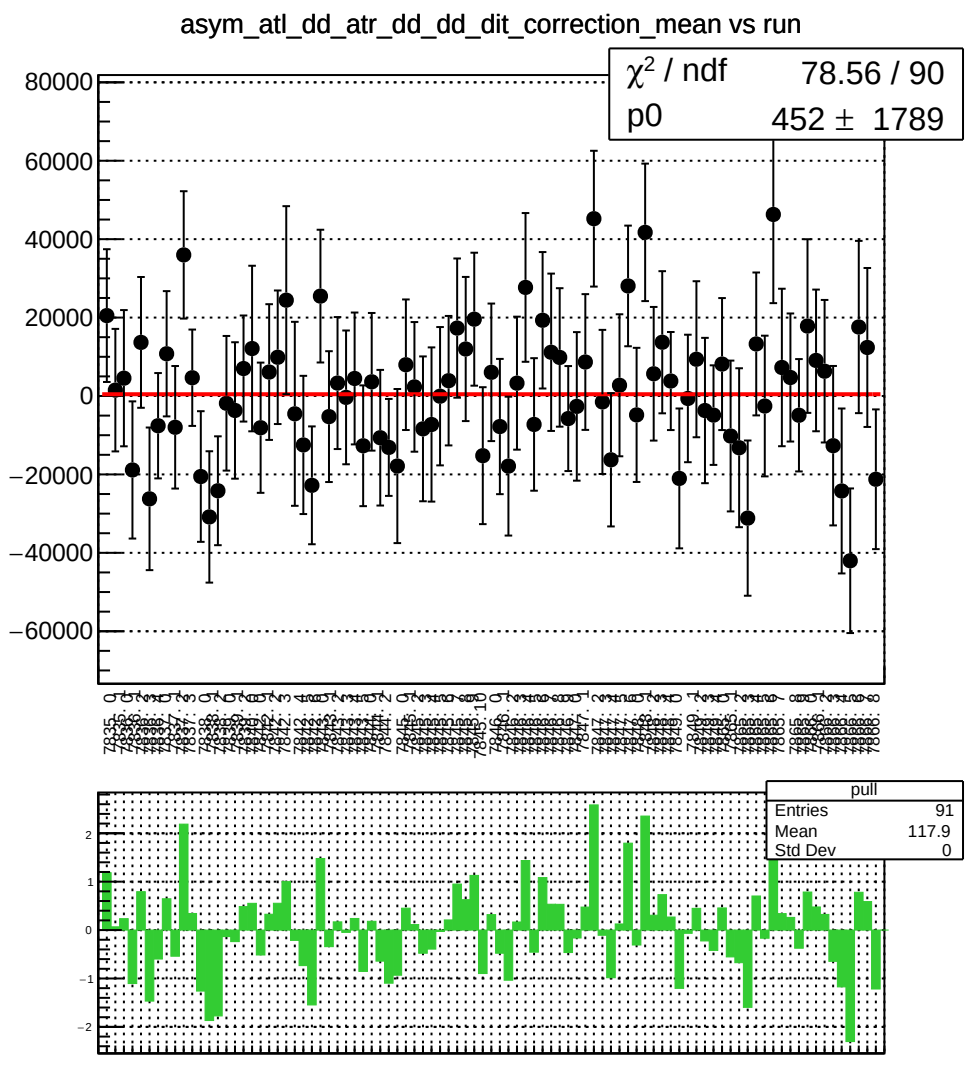

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.73 / 90
p0 477.4 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 123.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01837
Std Dev 0.93
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

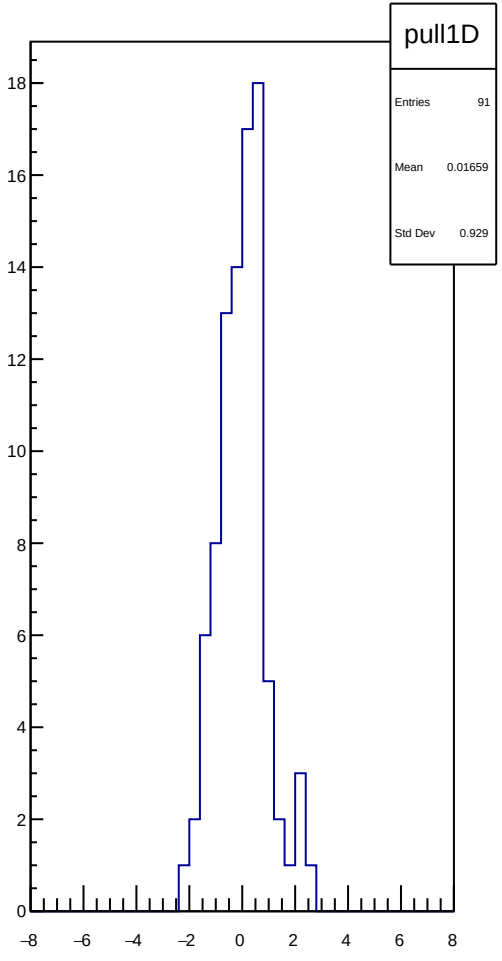

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 90
p0 1634 ± 1.237
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

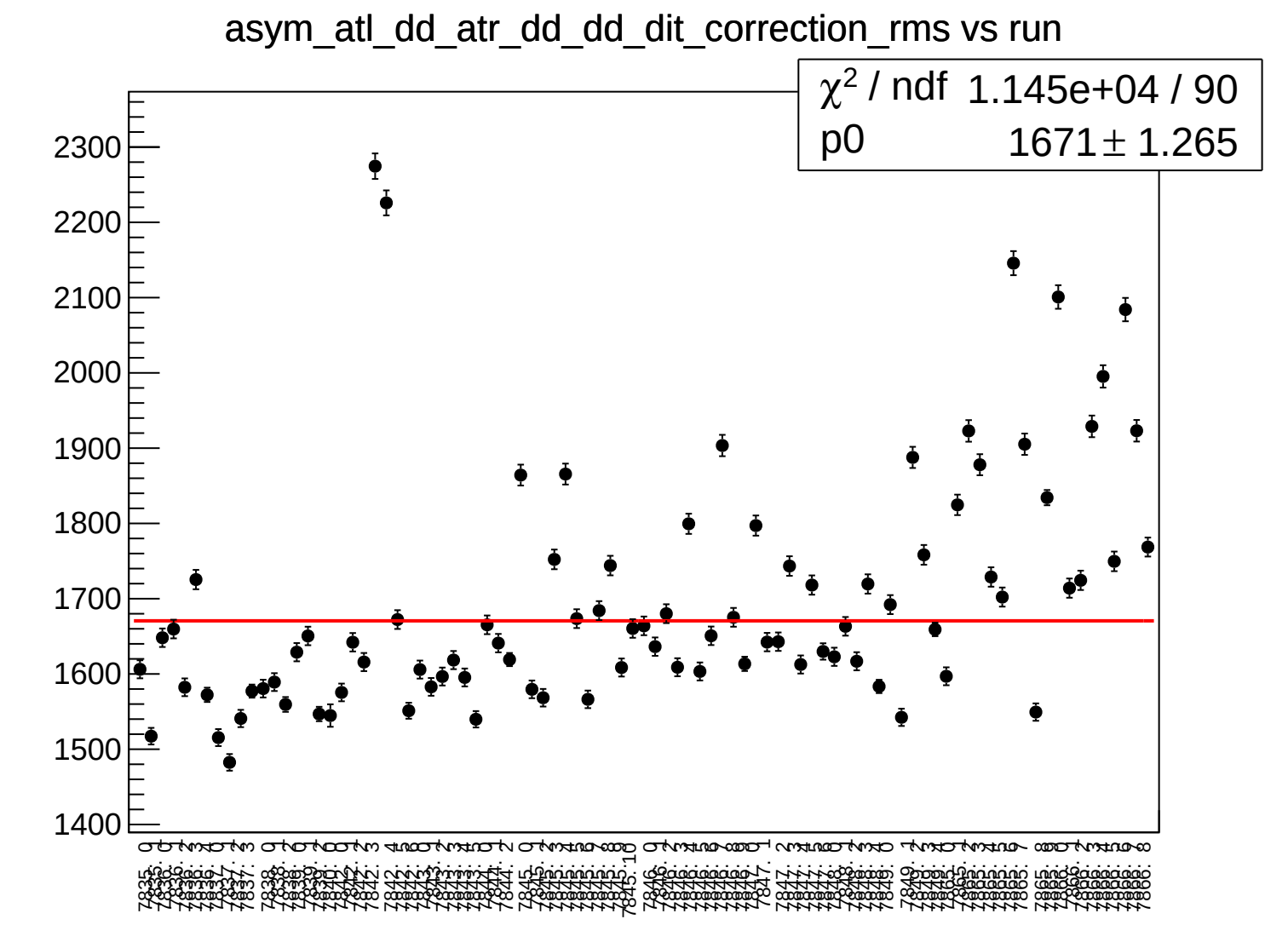

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.24 / 90
p0 −240.1± 1356
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −552.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

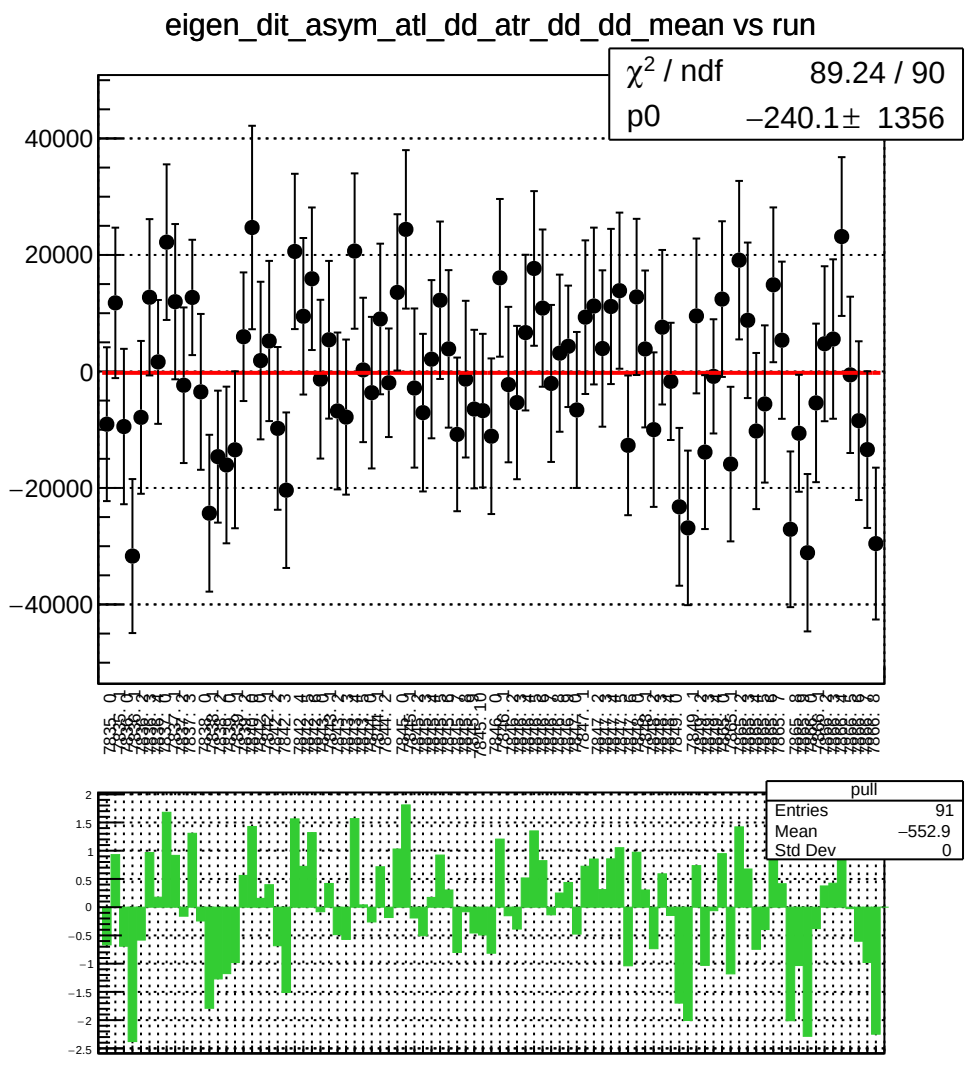

pull1D
Entries 91
Mean 0.004468
Std Dev 0.9903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

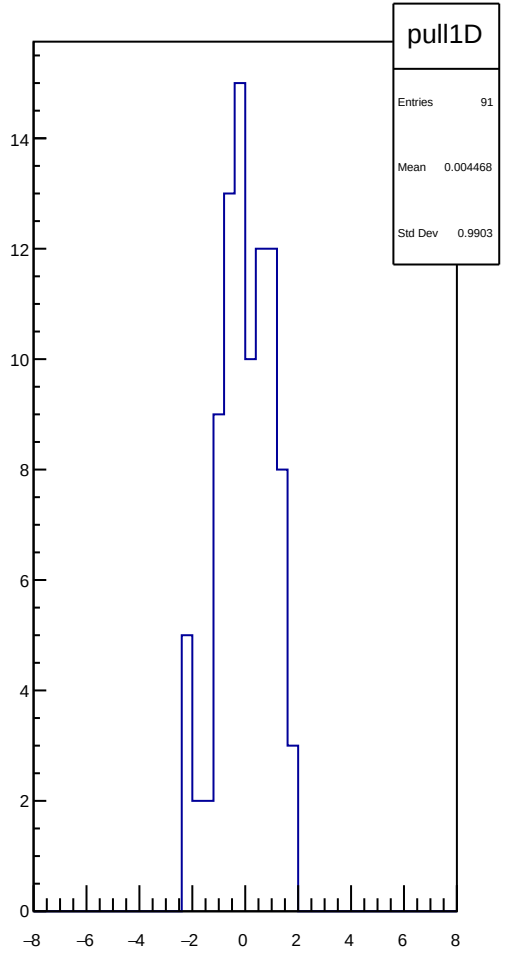

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 312.5 / 90
p0 1270 ± 0.9587
1340
1320
1300
1280
1260
1240
1220

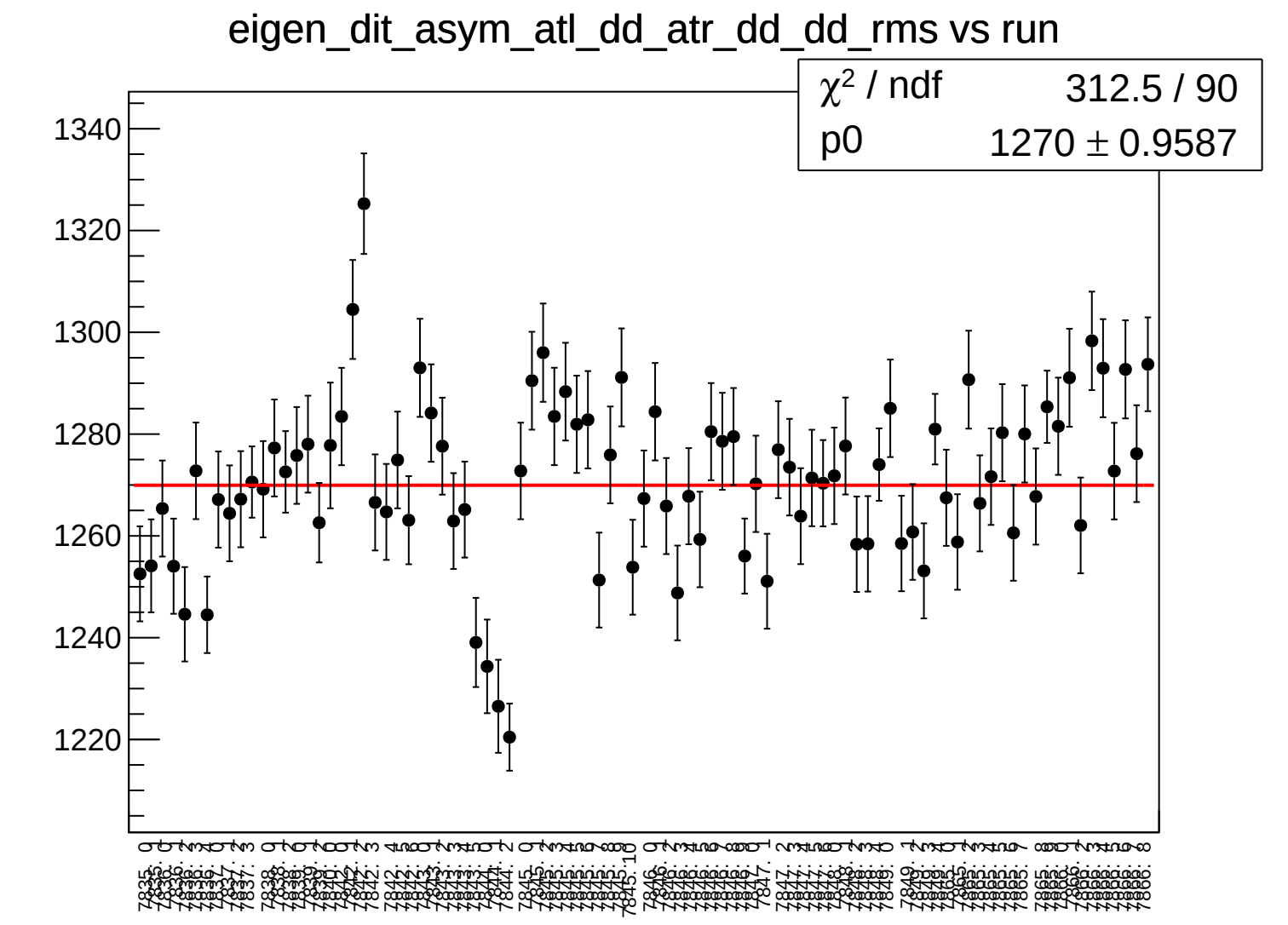

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 78.56 / 90
p0 452 ± 1789
pull
Entries 91
Mean 117.9
Std Dev 0

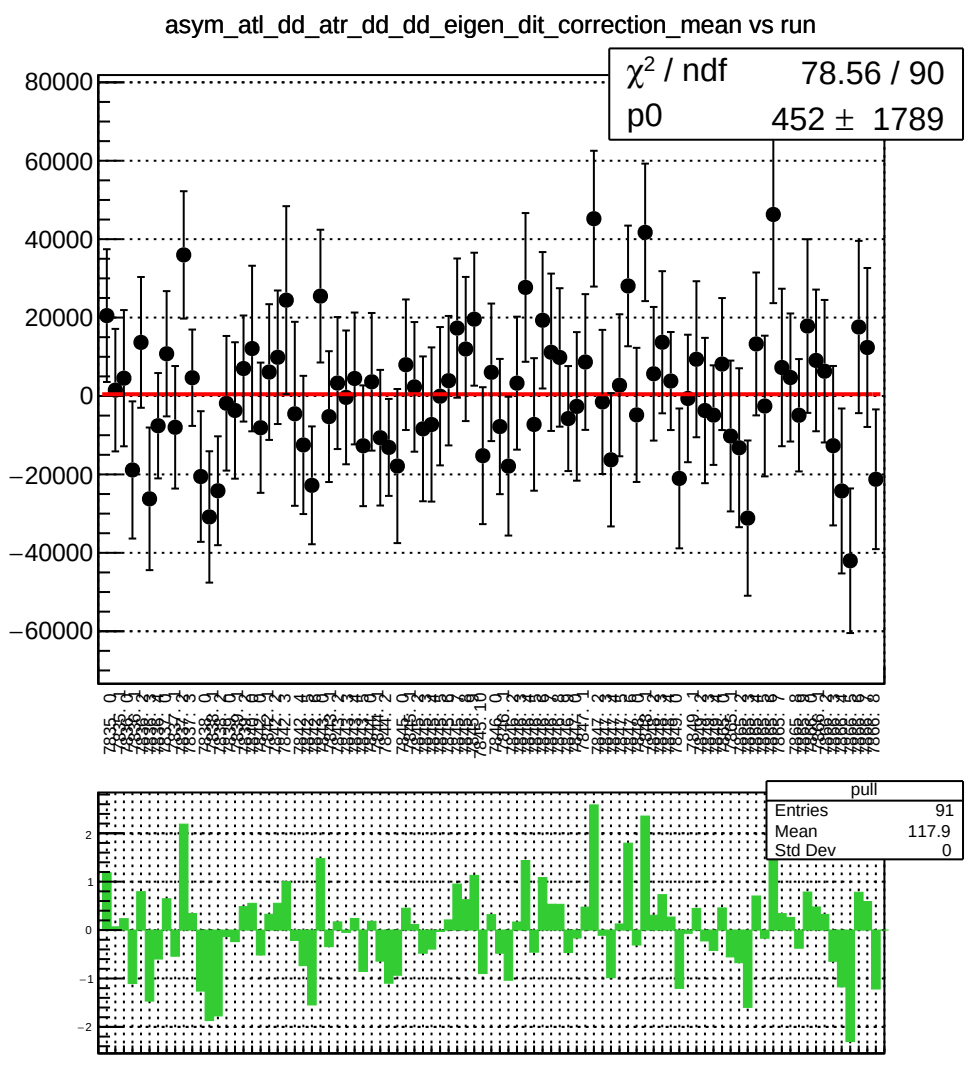

pull1D
Entries 91
Mean 0.01659
Std Dev 0.929

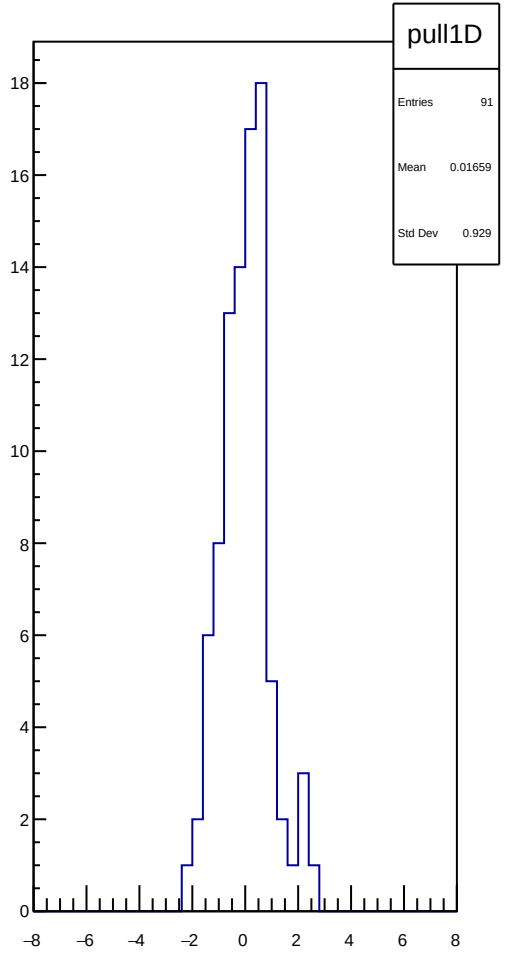

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 90
p0 1671 ± 1.265
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

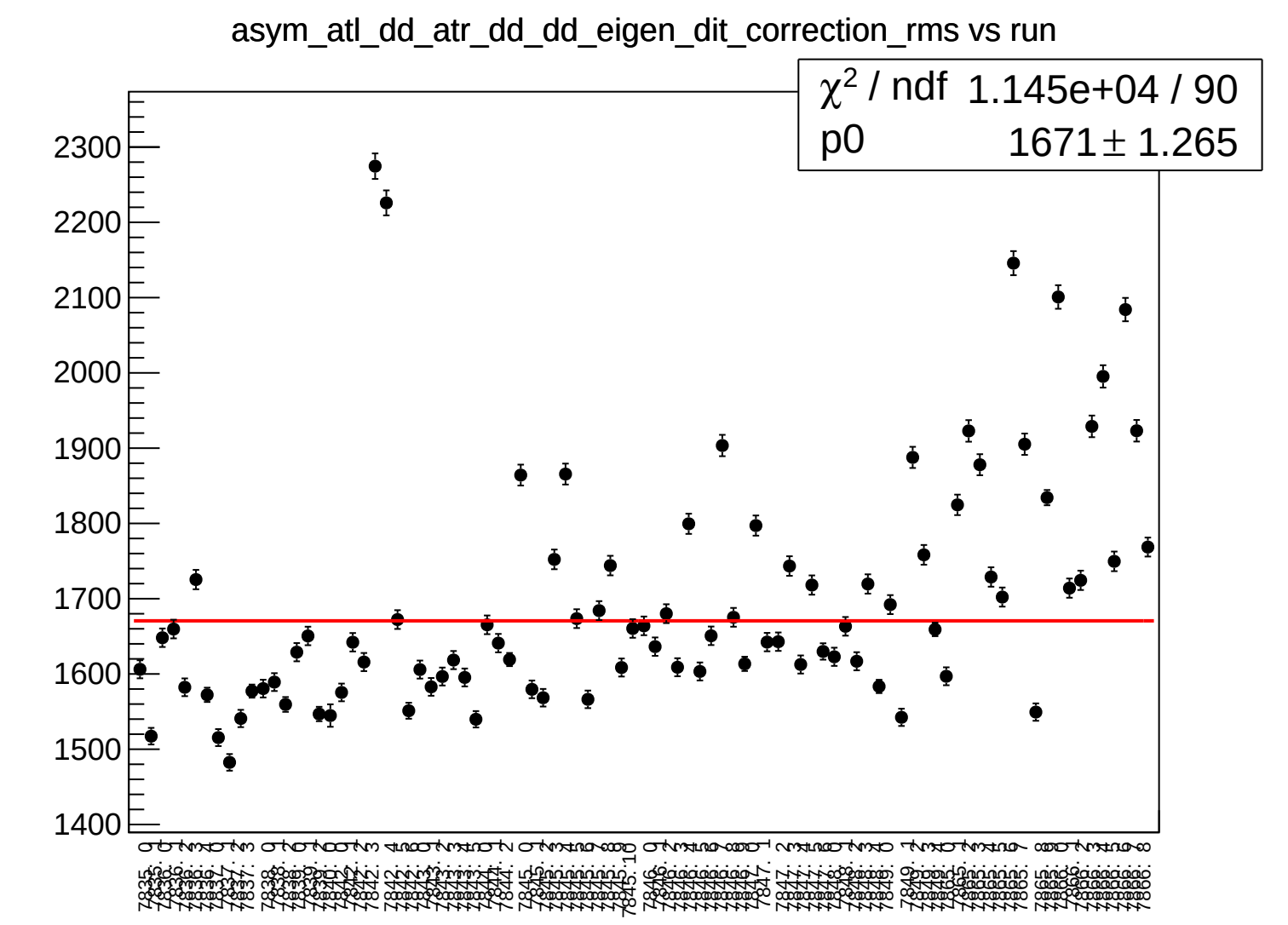

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.24 / 90
p0 −240.1± 1356
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −552.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

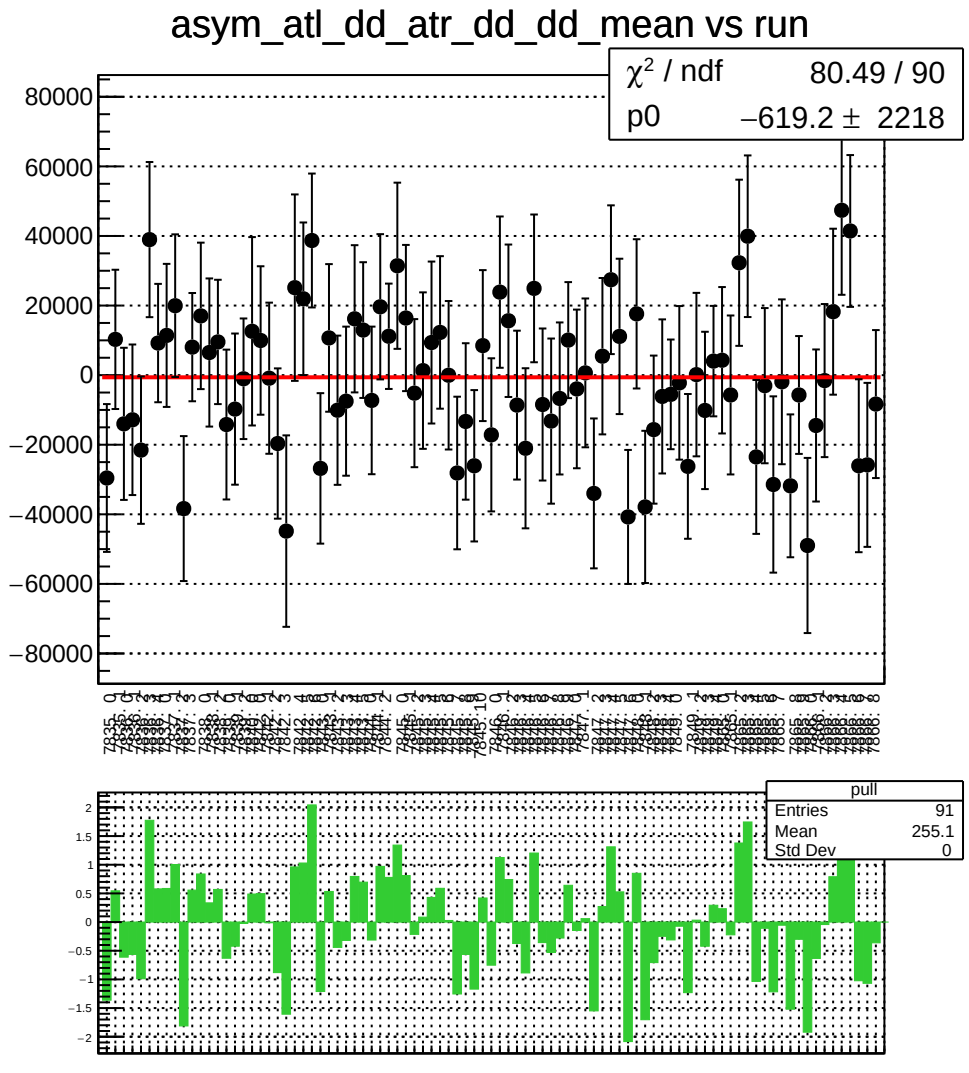

pull1D
Entries 91
Mean 0.004468
Std Dev 0.9903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

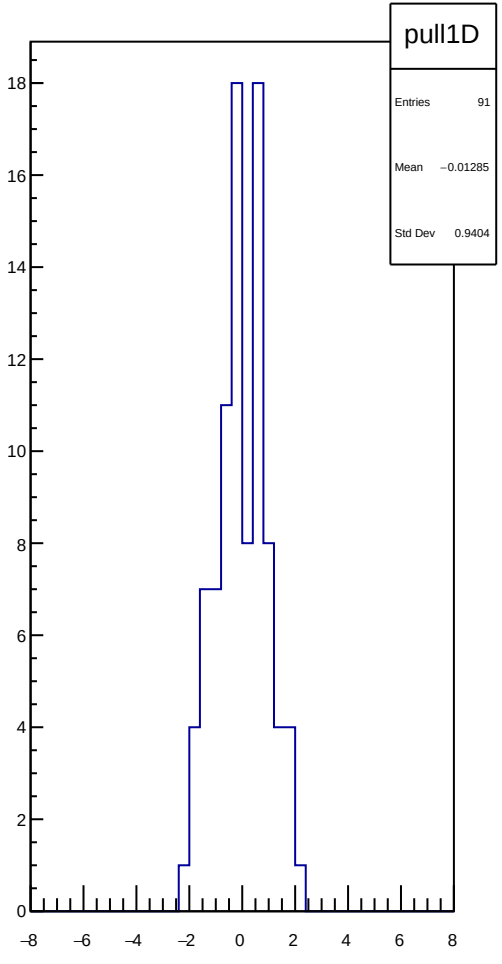

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 312.5 / 90
p0 1270 ± 0.9587
1340
1320
1300
1280
1260
1240
1220

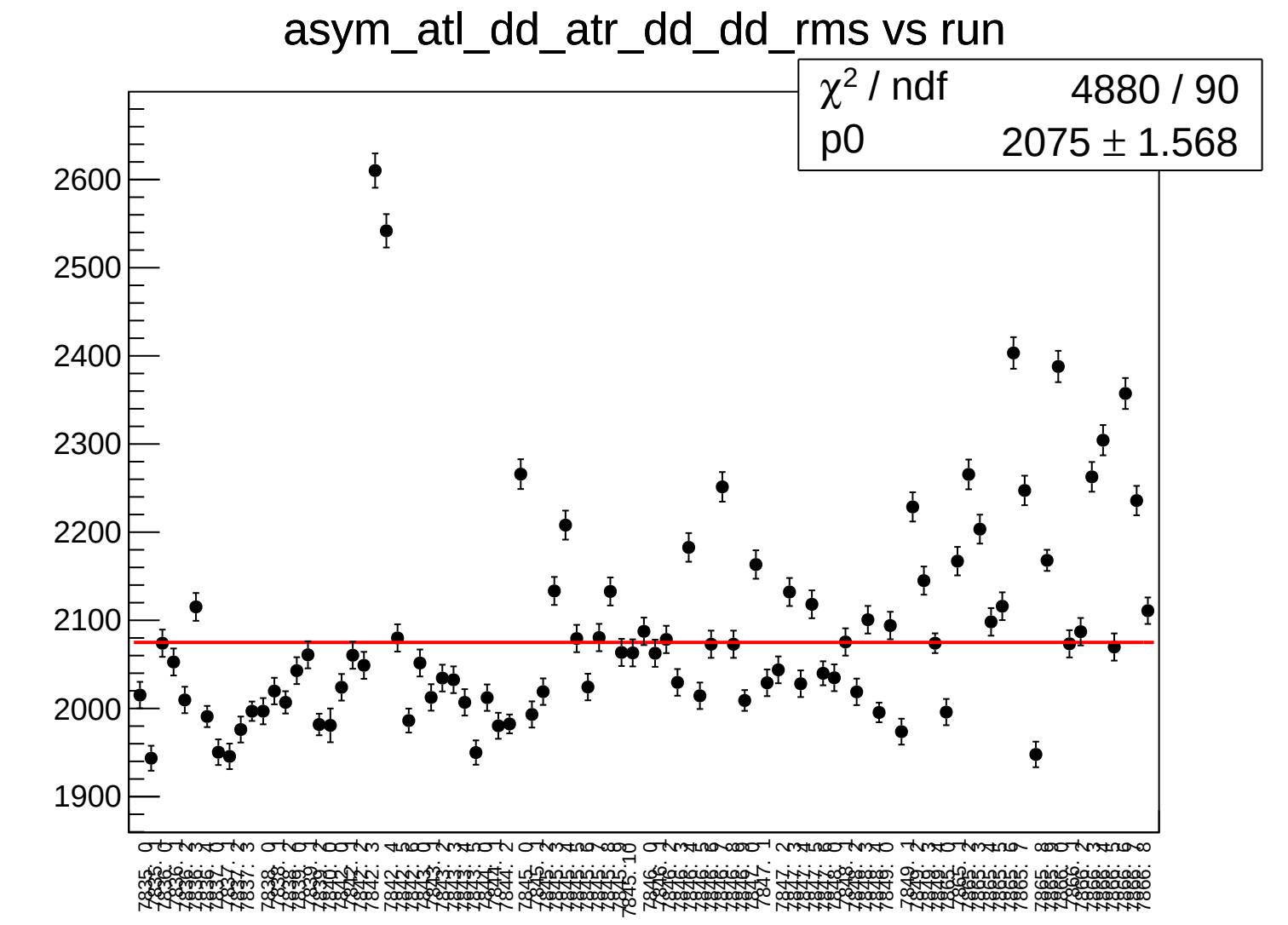

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.56 / 90
p0 452 ± 1789
pull
Entries 91
Mean 117.9
Std Dev 0

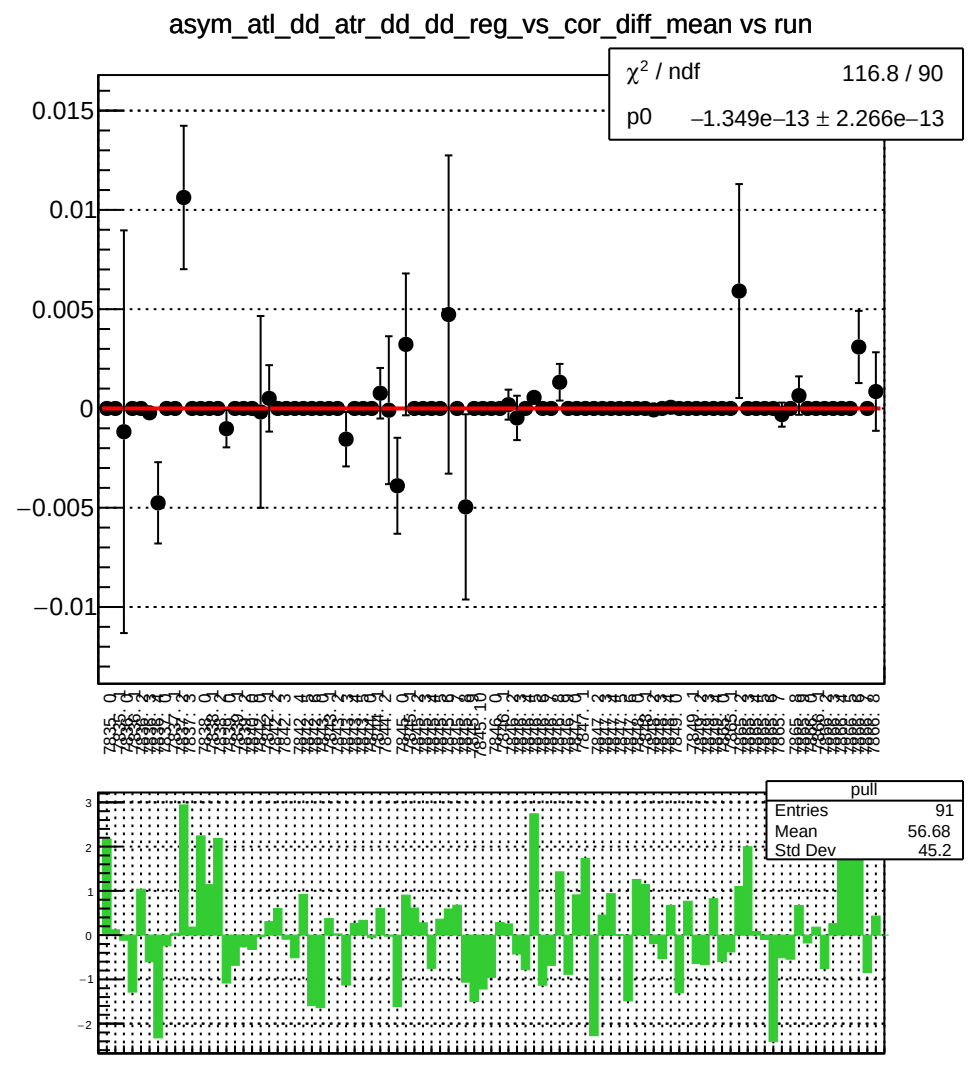

pull1D
Entries 91
Mean 0.01659
Std Dev 0.929

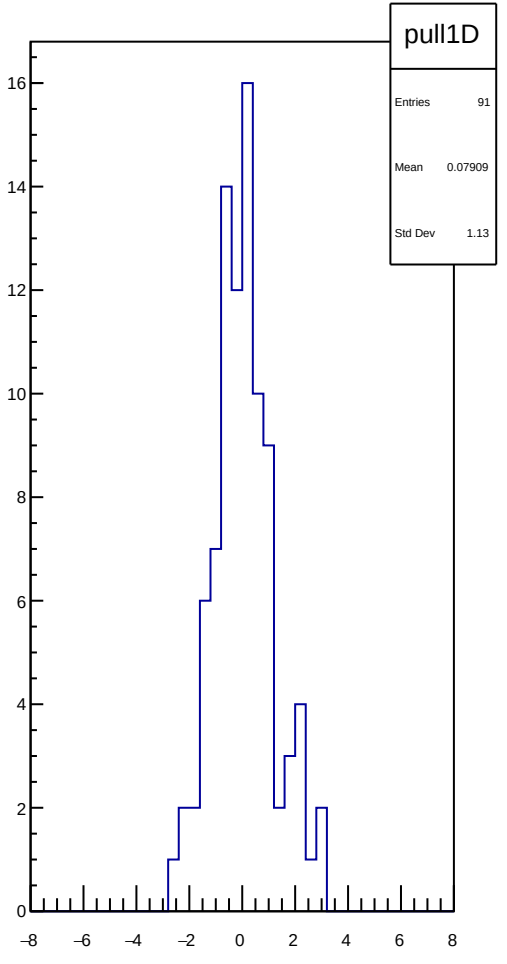

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 90
p0 1671 ± 1.265
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

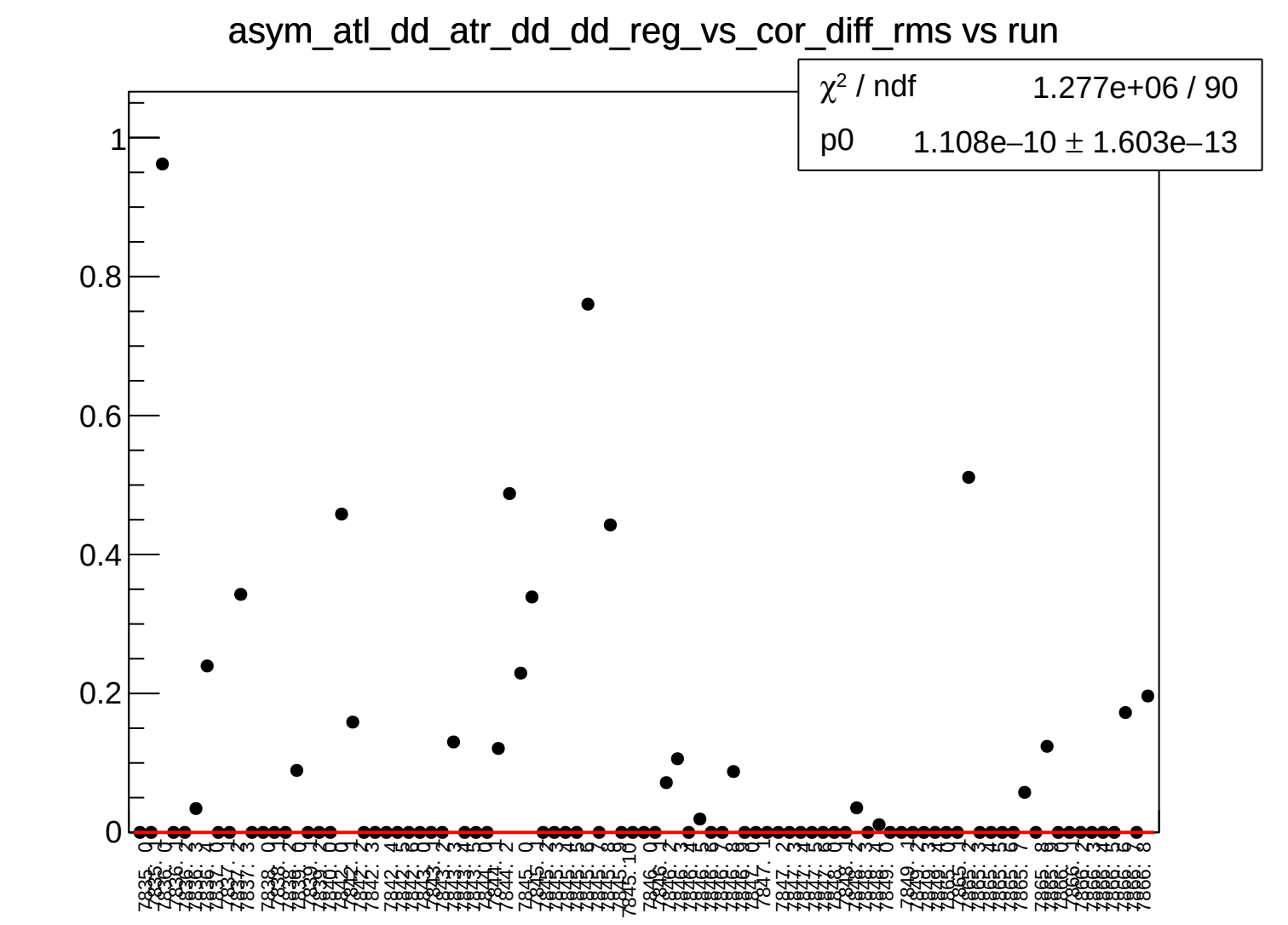

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80.49 / 90
p0 −619.2 ± 2218
pull
Entries 91
Mean 255.1
Std Dev 0

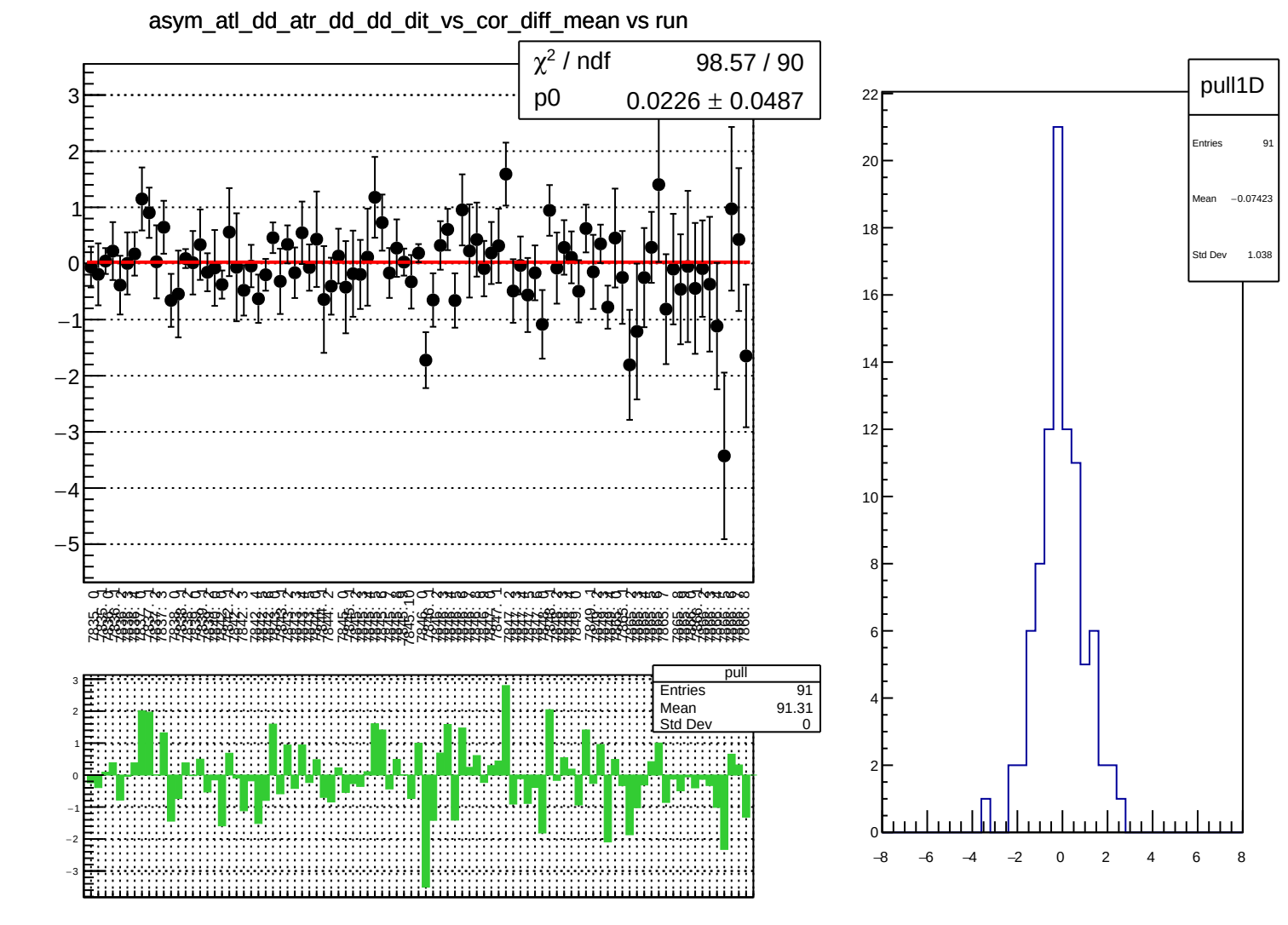

pull1D
Entries 91
Mean −0.01285
Std Dev 0.9404

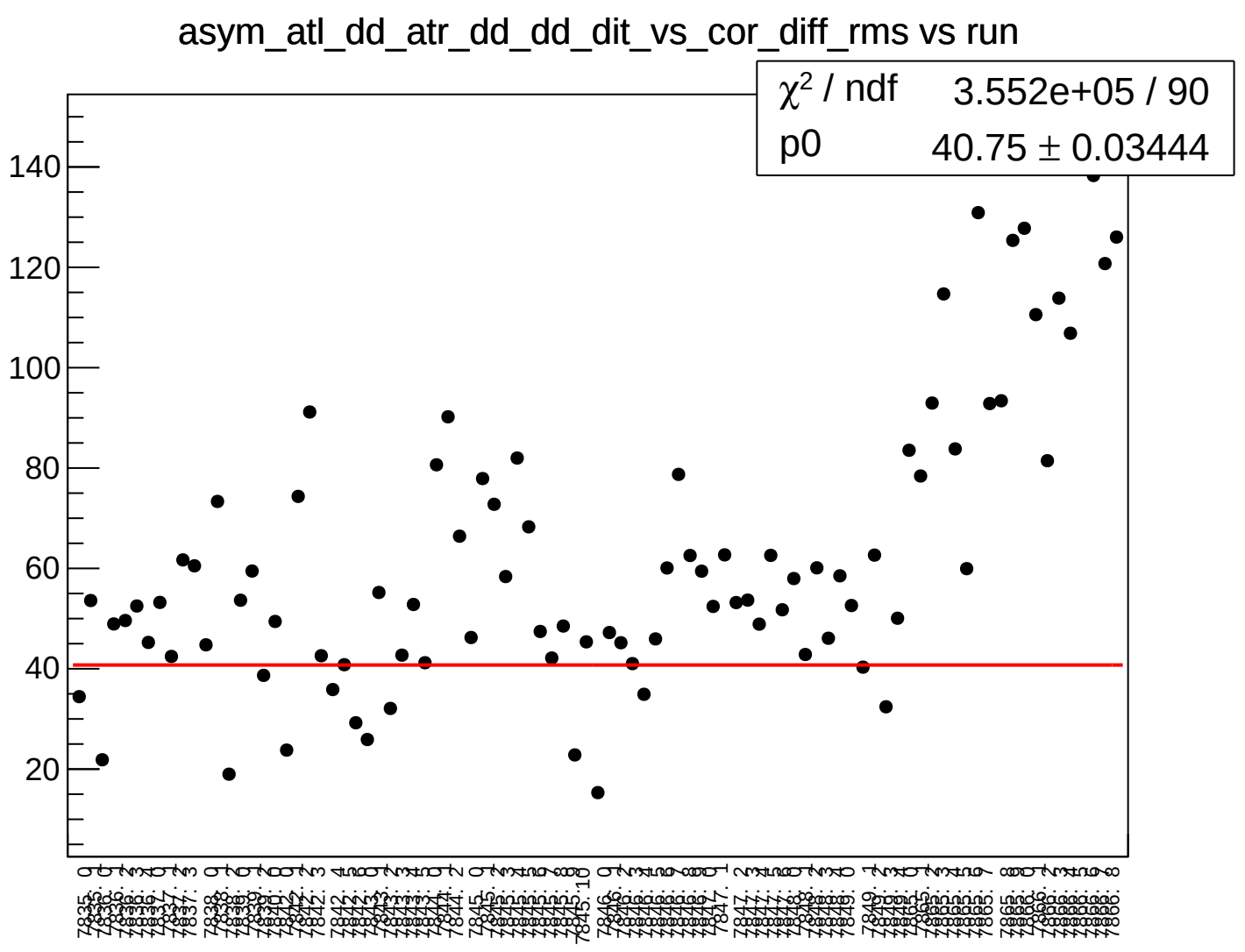

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4880 / 90
p0 2075 ± 1.568
2600
2500
2400
2300
2200
2100
2000
1900

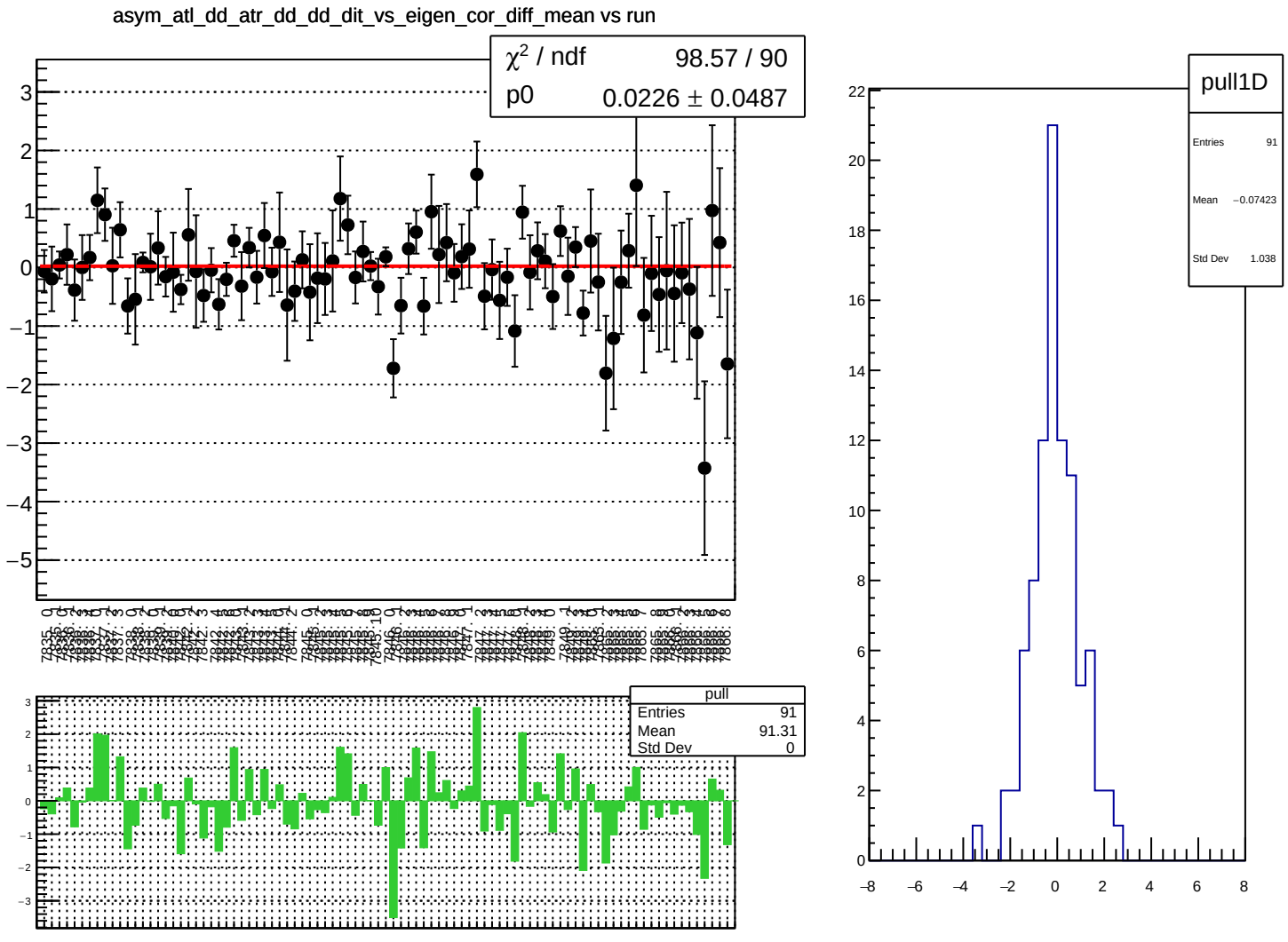

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 90
p0 −1.349e−13 ± 2.266e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 56.68
Std Dev 45.2
3
2
1
0
−1
−2

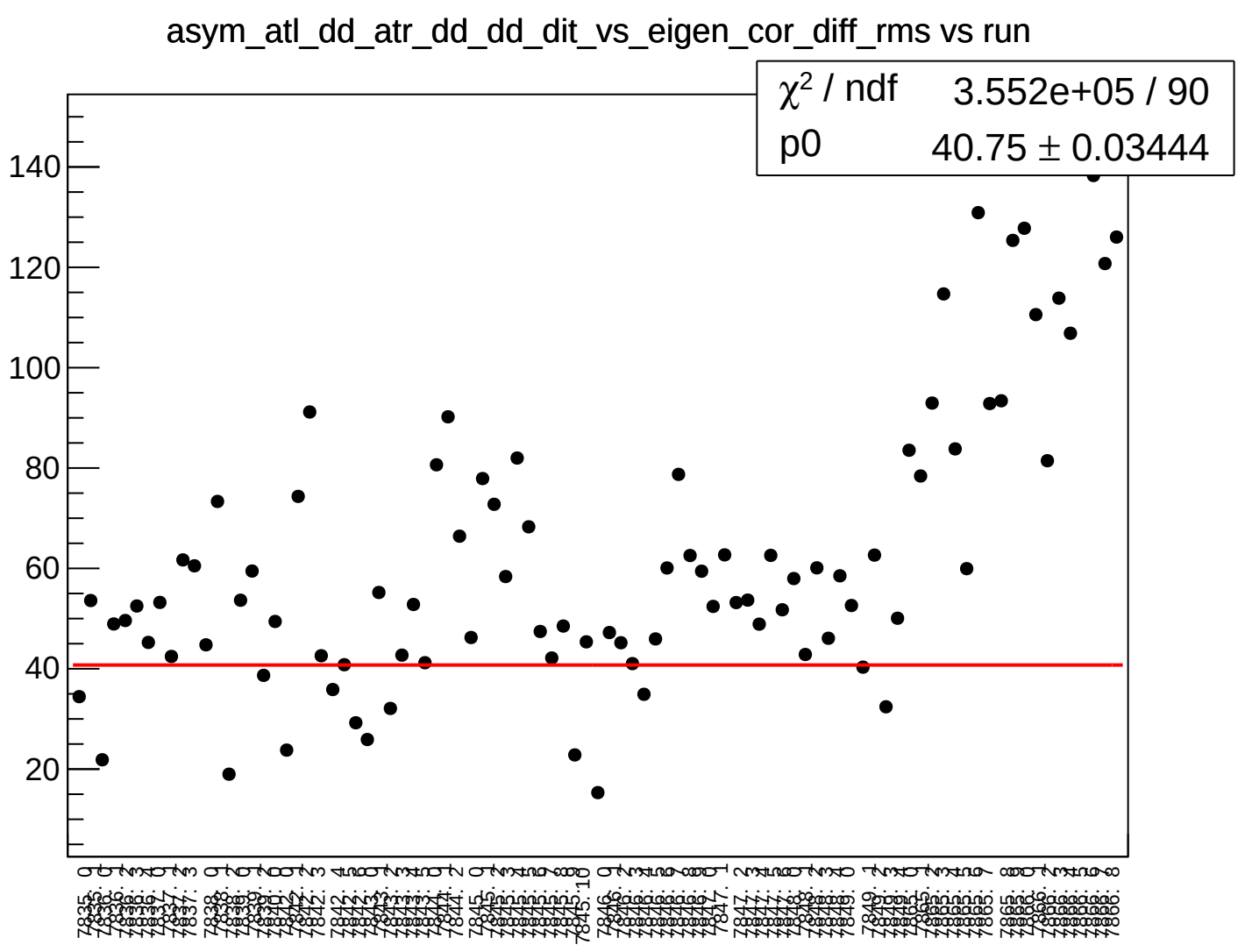

pull1D
Entries 91
Mean 0.07909
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

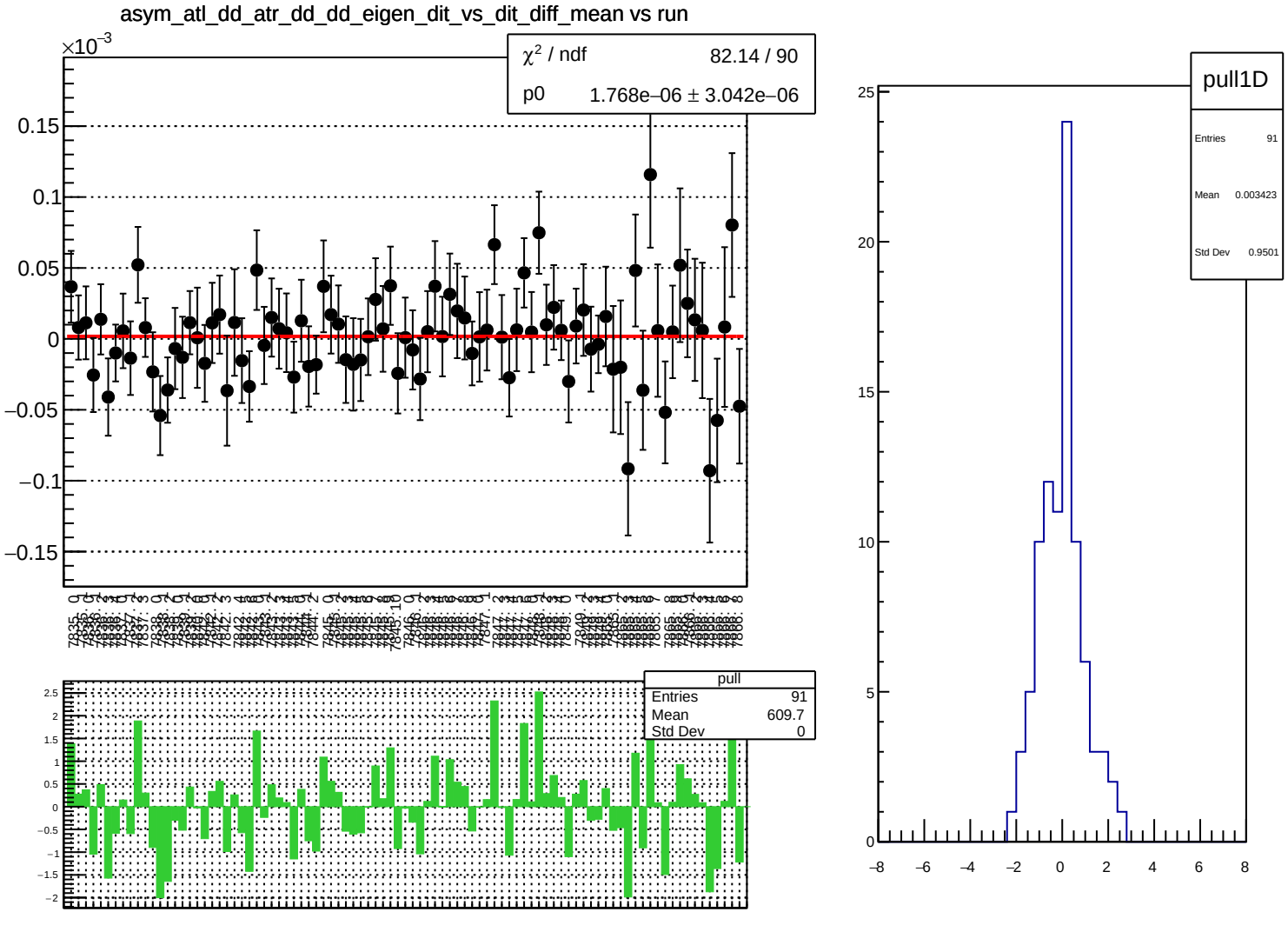

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.277e+06 / 90
p0 1.108e−10 ± 1.603e−13
1
0.8
0.6
0.4
0.2
0

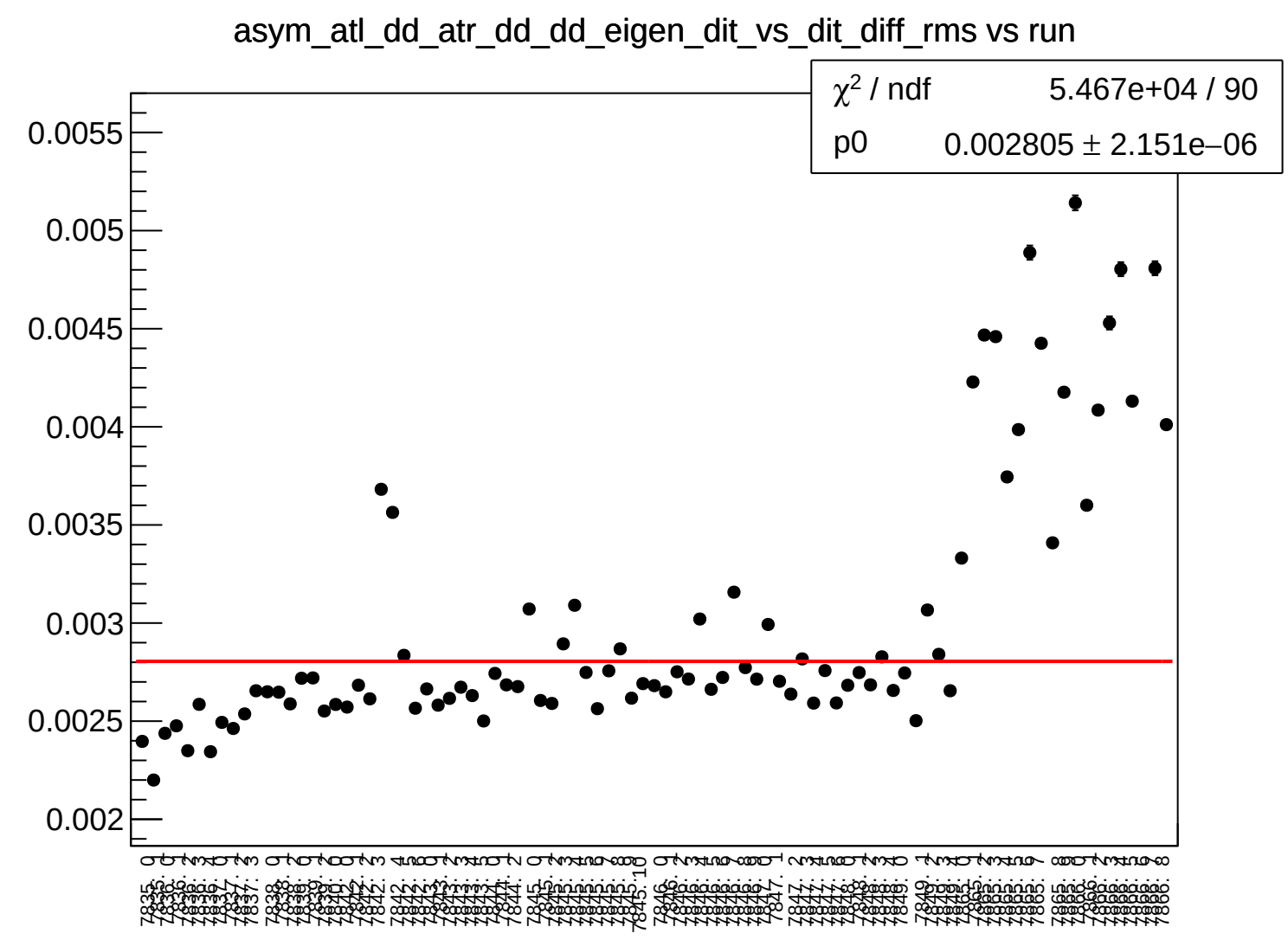

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.0487
pull
Entries 91
Mean 91.31
Std Dev 0
pull1D
Entries 91
Mean −0.07423
Std Dev 1.038

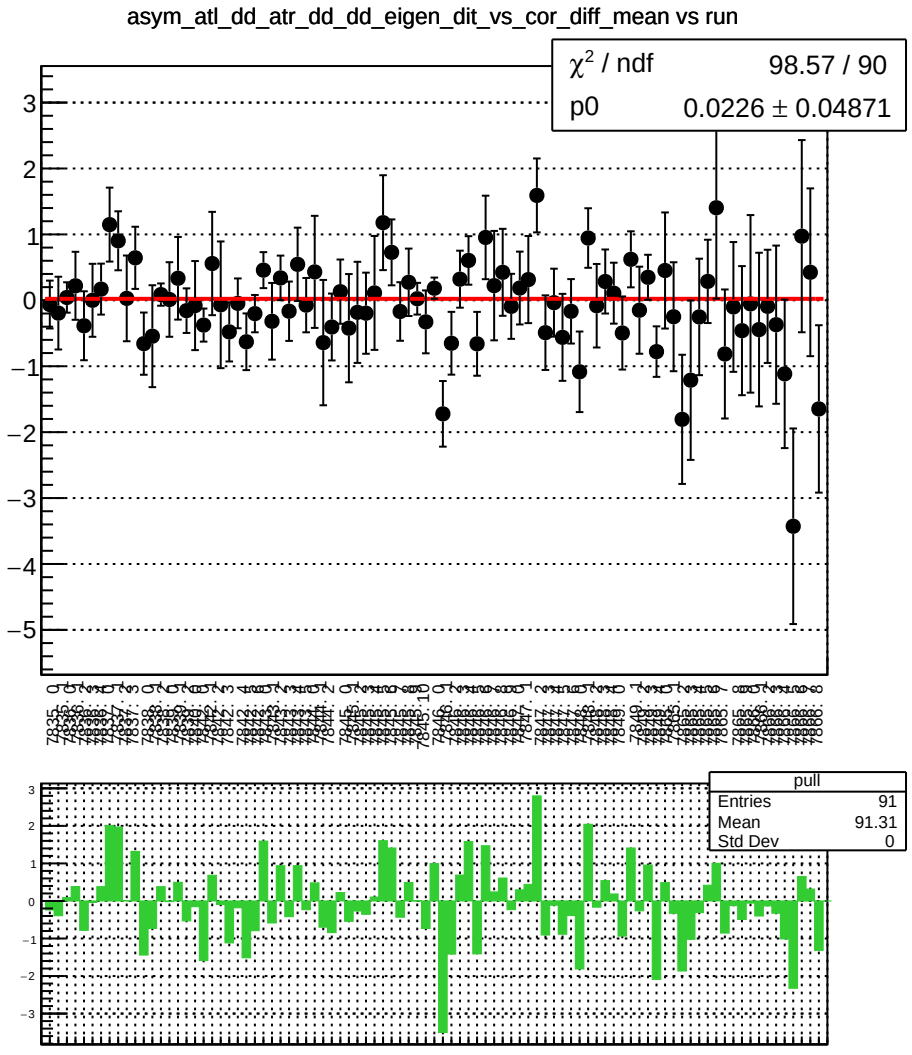

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

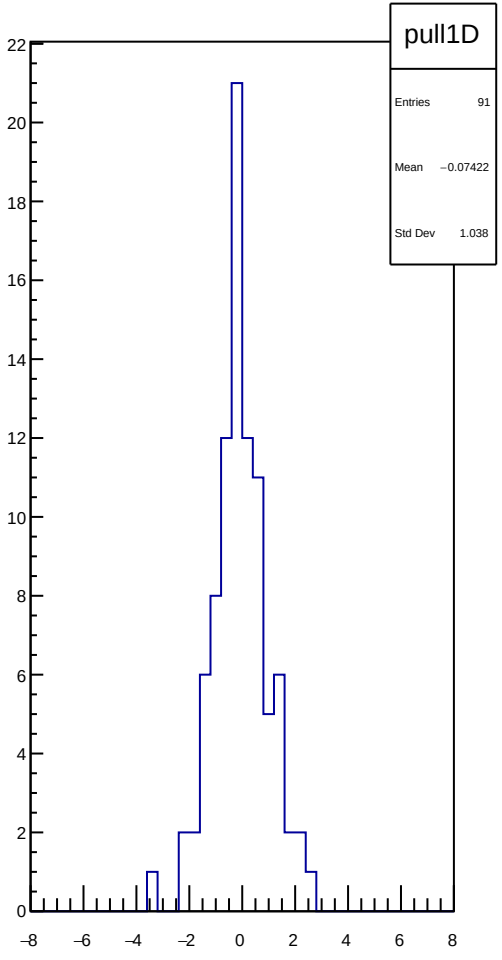

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.0487
pull
Entries 91
Mean 91.31
Std Dev 0
pull1D
Entries 91
Mean −0.07423
Std Dev 1.038

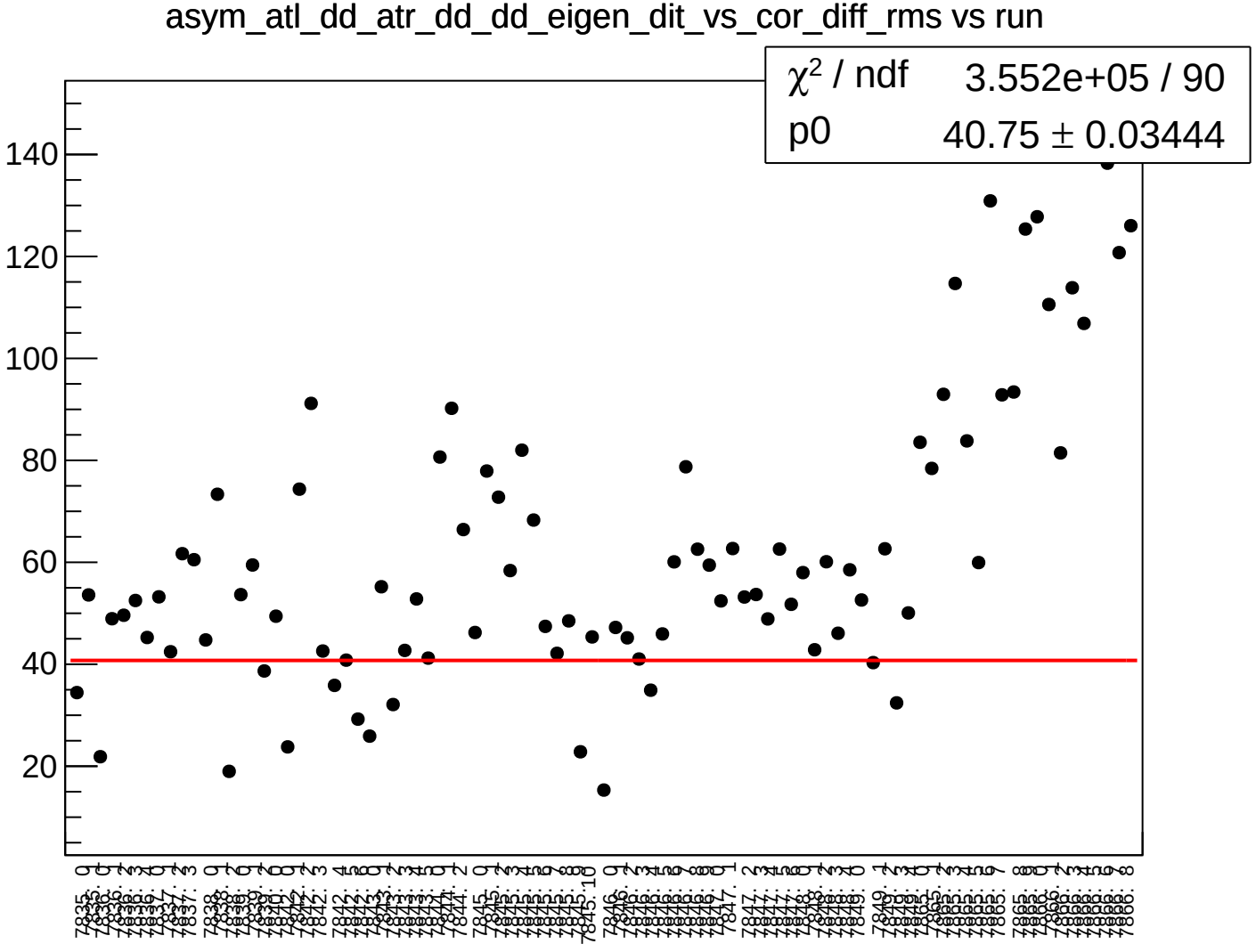

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

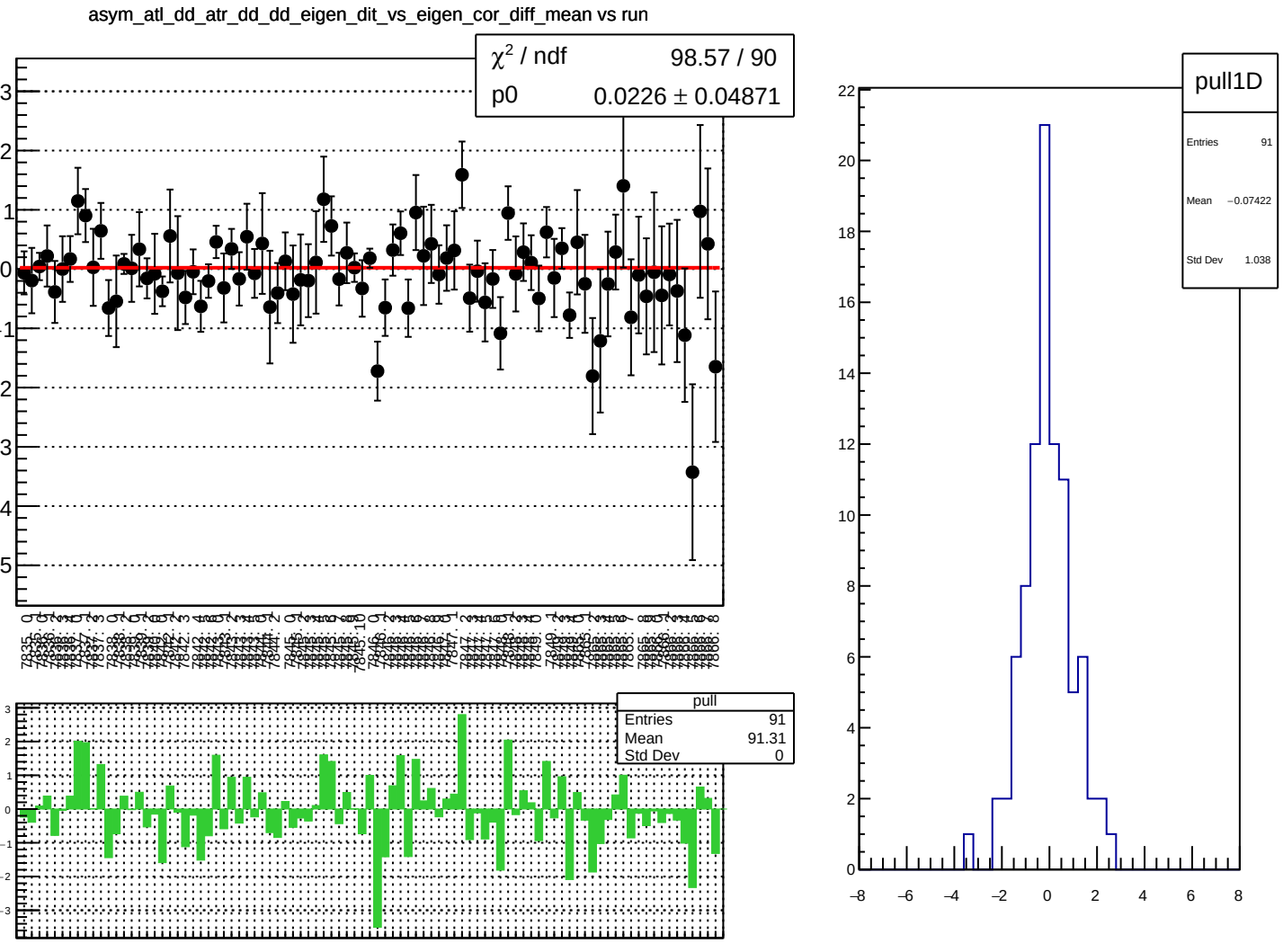

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.14 / 90
p0 1.768e−06 ± 3.042e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 609.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.003423
Std Dev 0.9501
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

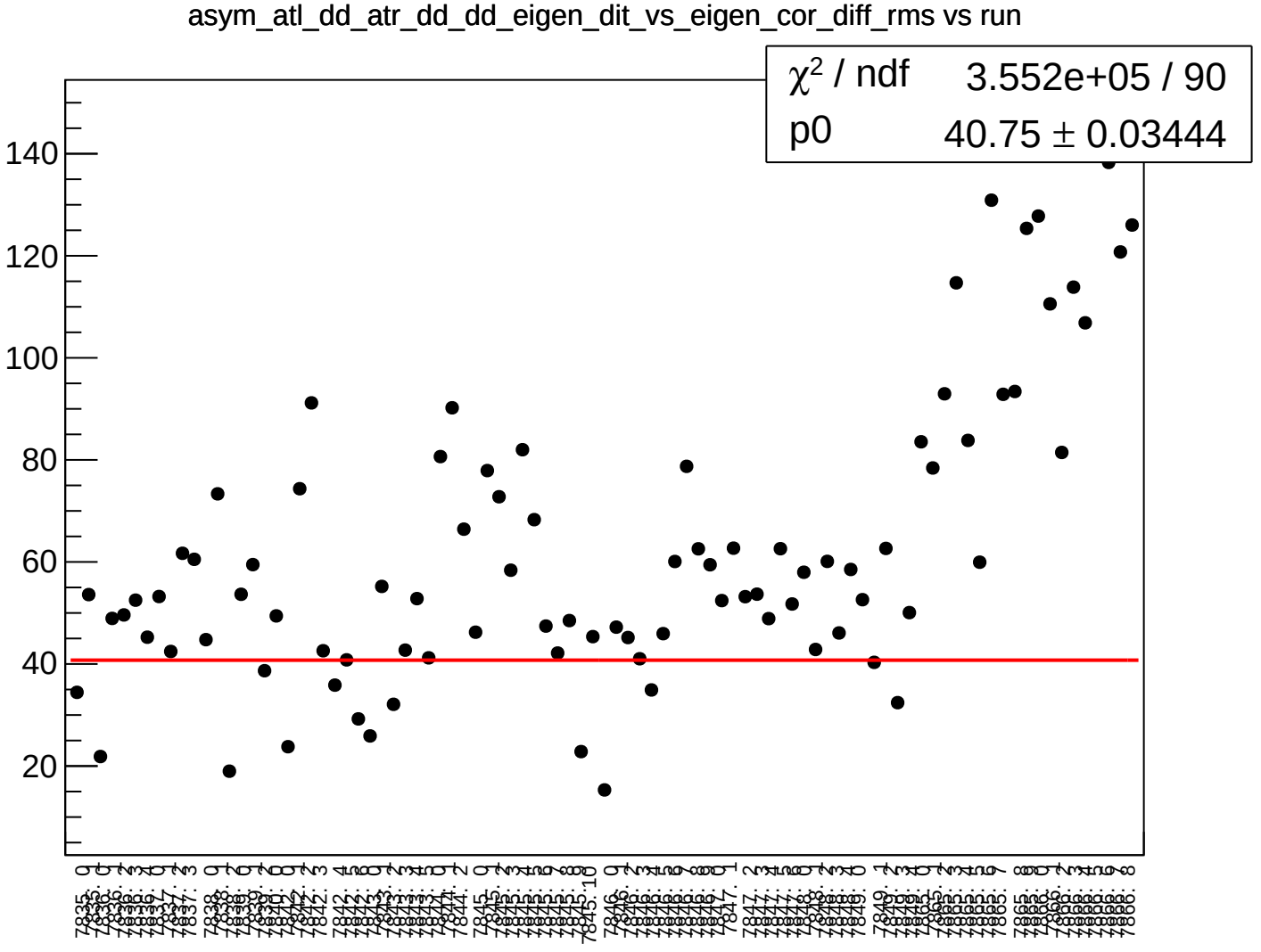

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.467e+04 / 90
p0 0.002805 ± 2.151e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

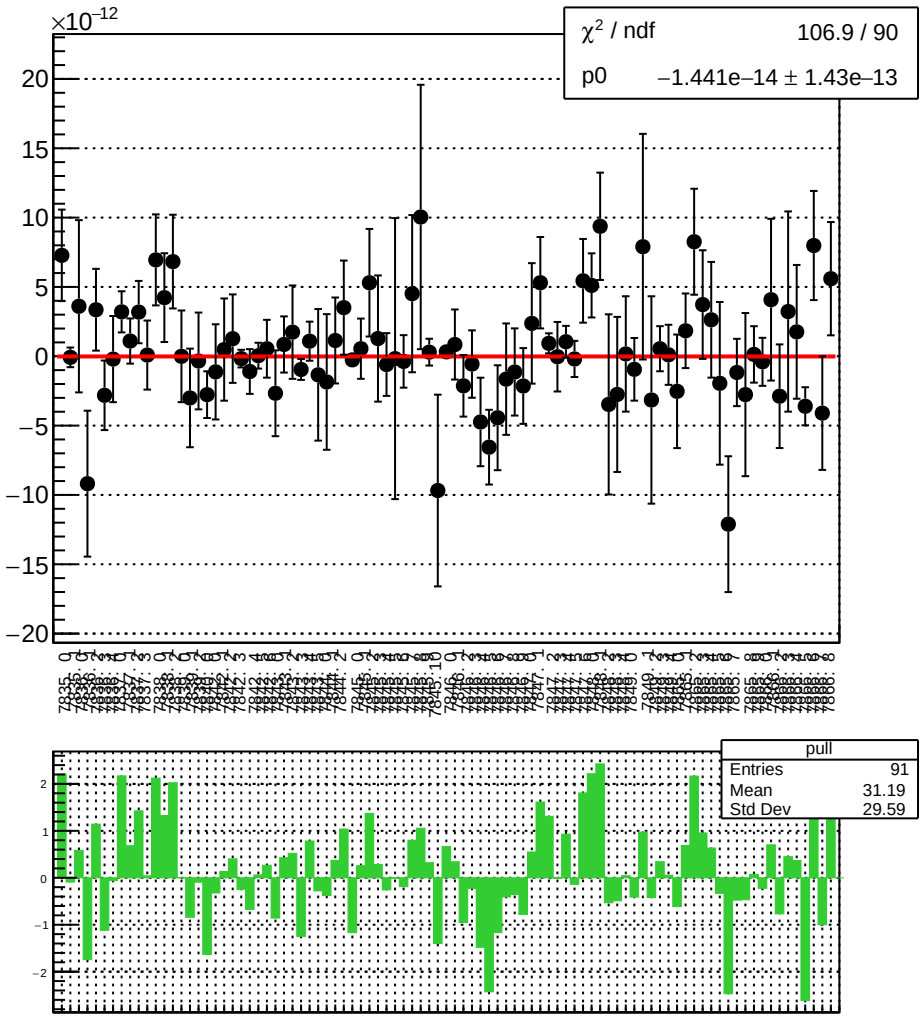

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.04871
pull
Entries 91
Mean 91.31
Std Dev 0

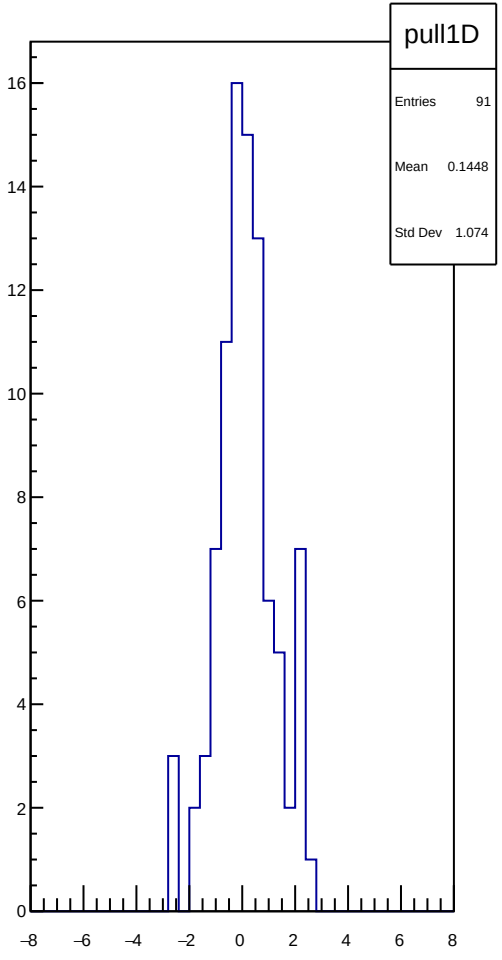

pull1D
Entries 91
Mean −0.07422
Std Dev 1.038

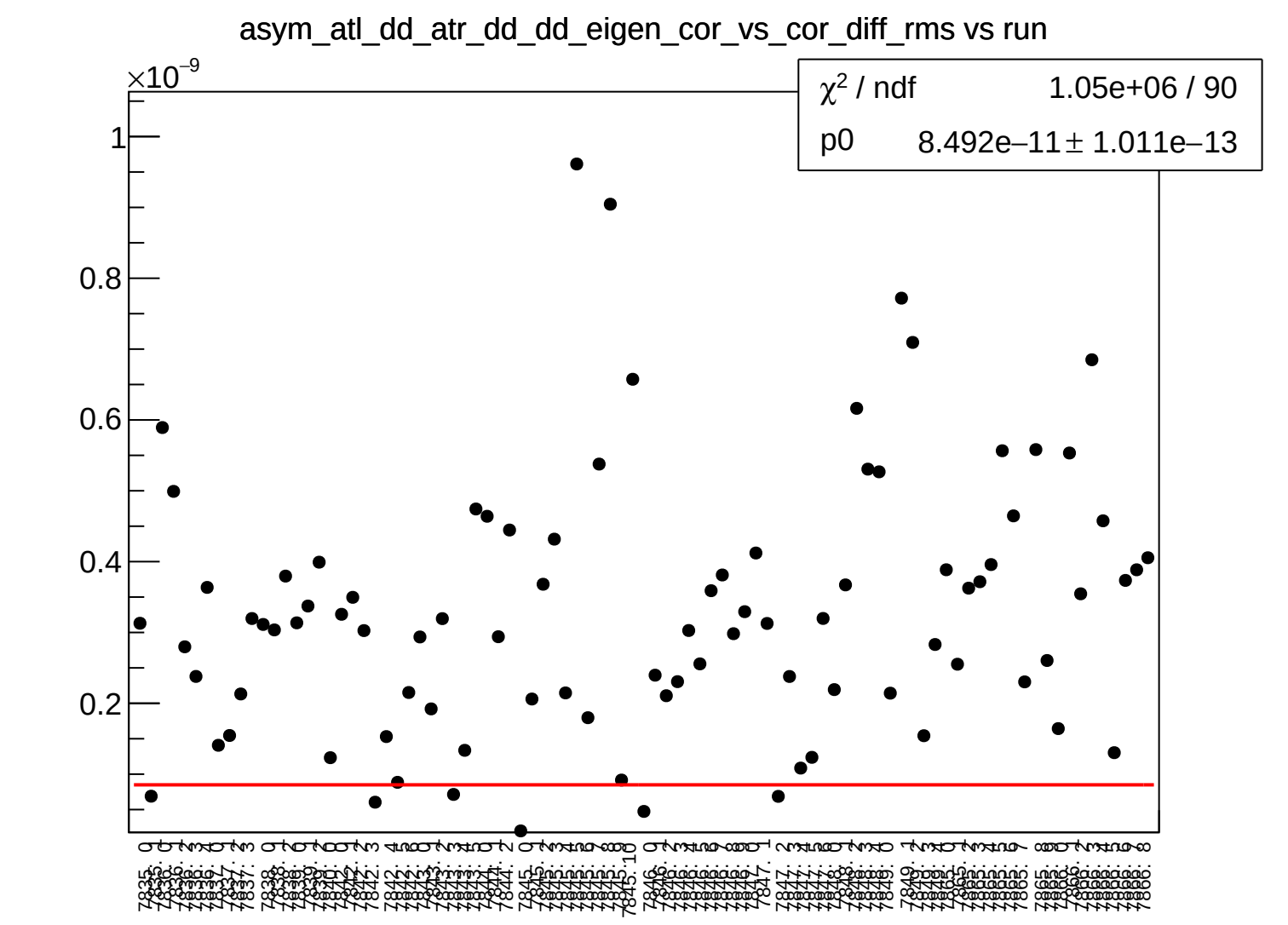

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

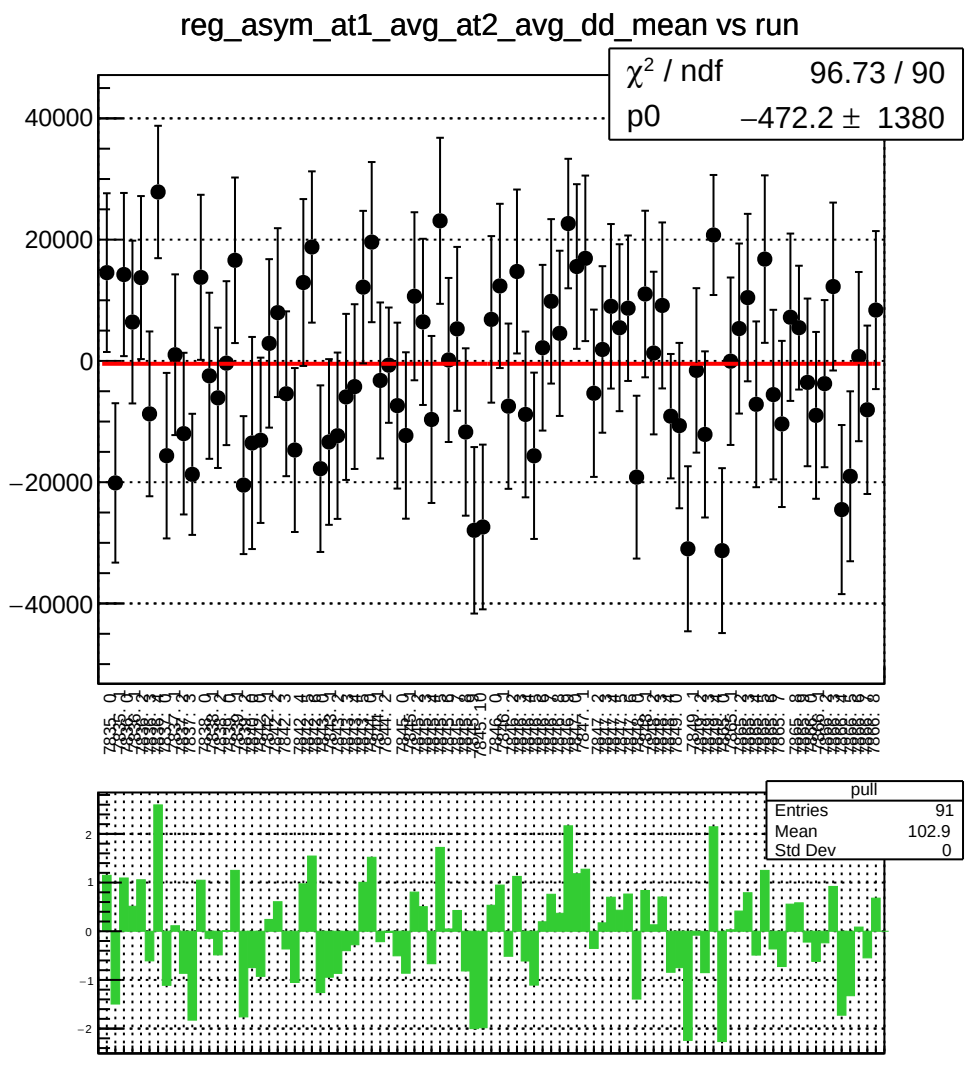

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.04871
pull
Entries 91
Mean 91.31
Std Dev 0
pull1D
Entries 91
Mean −0.07422
Std Dev 1.038

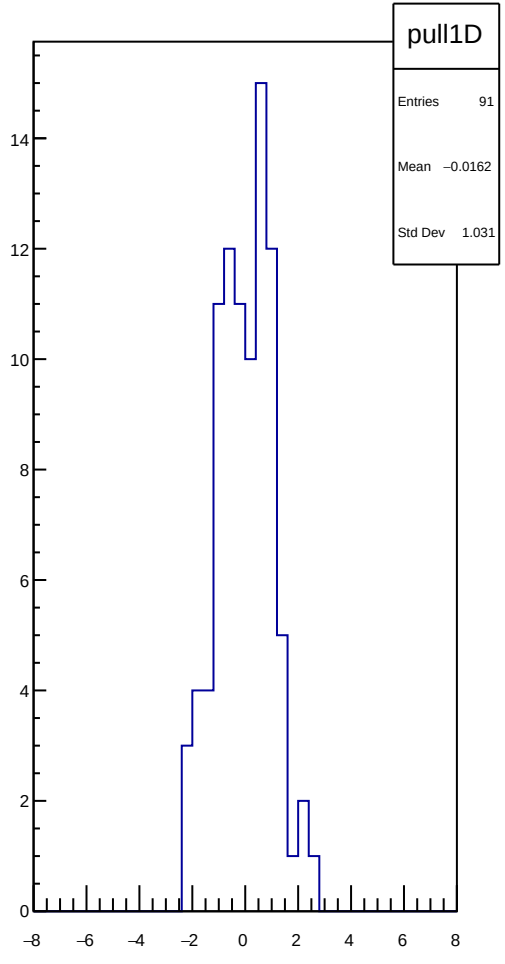

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

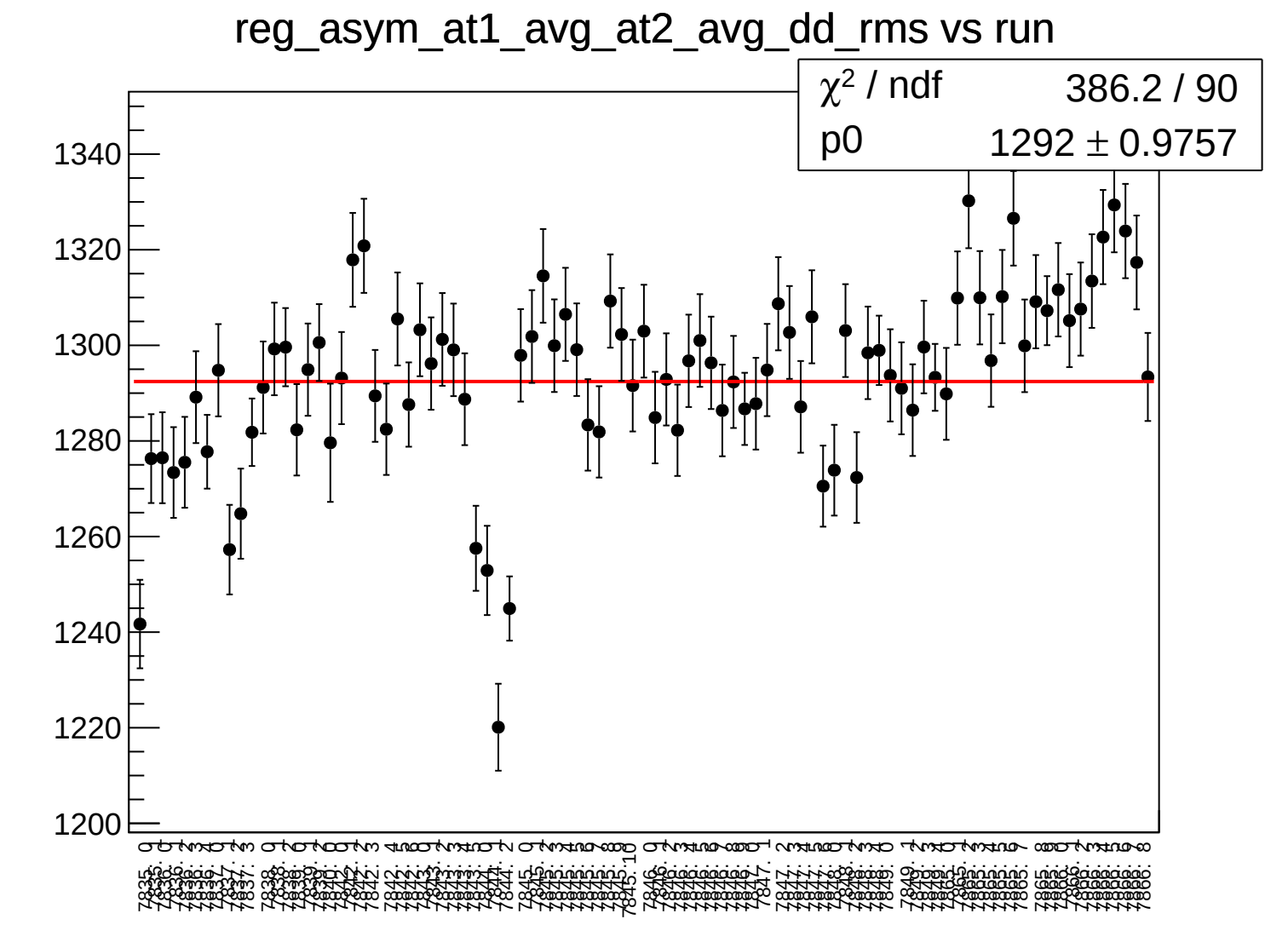

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.9 / 90
p0 −1.441e−14 ± 1.43e−13
pull
Entries 91
Mean 31.19
Std Dev 29.59

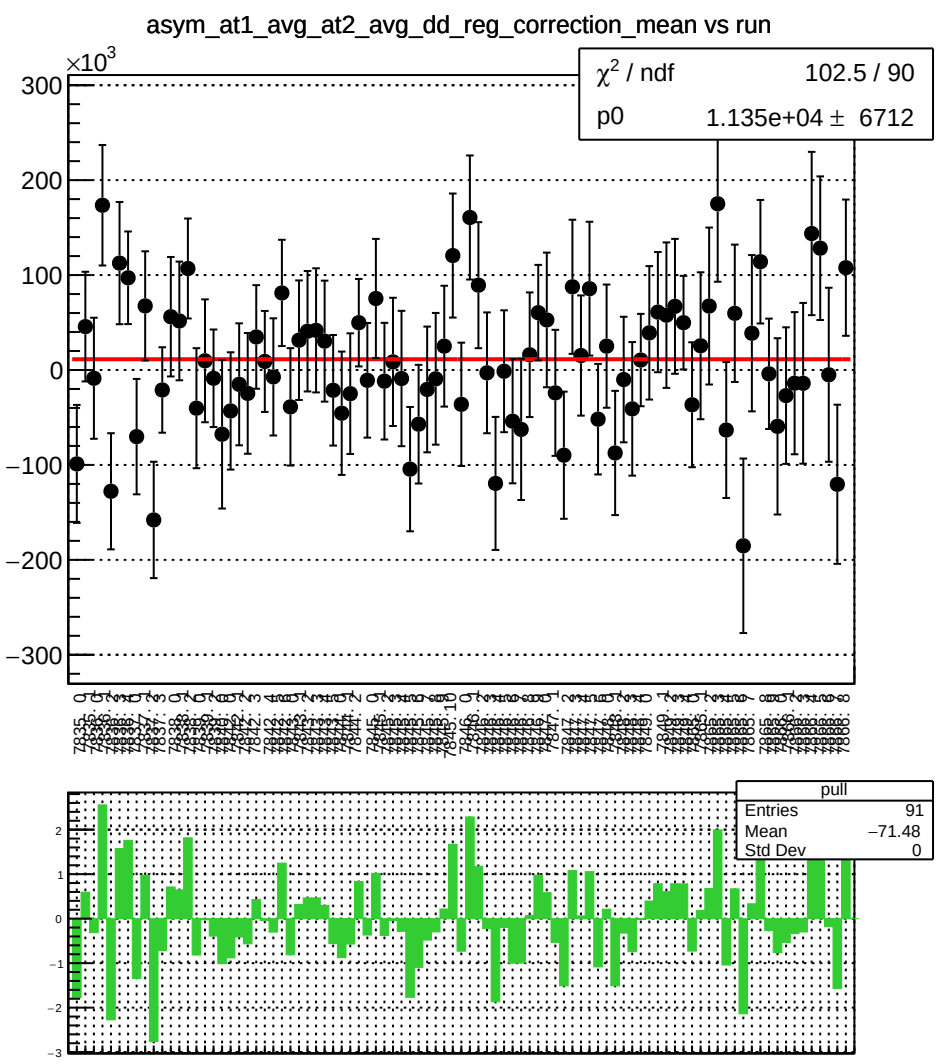

pull1D
Entries 91
Mean 0.1448
Std Dev 1.074

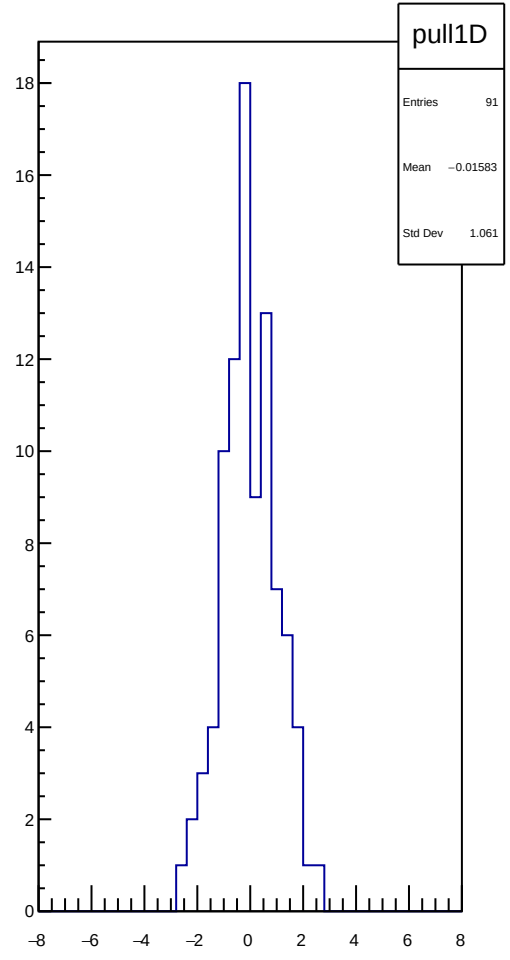

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.05e+06 / 90
p0 8.492e−11 ± 1.011e−13
1
0.8
0.6
0.4
0.2

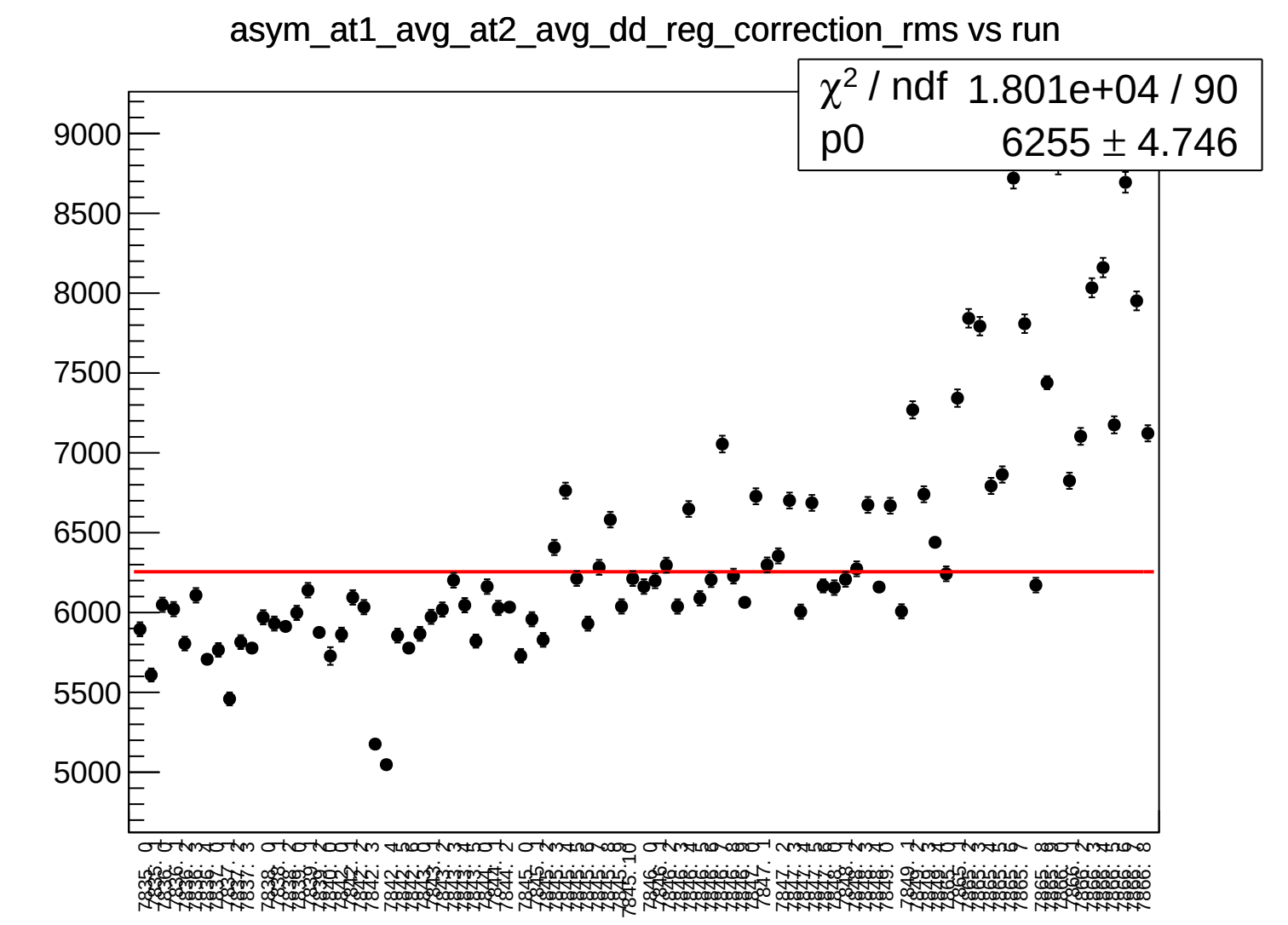

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.73 / 90
p0 −472.2 ± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

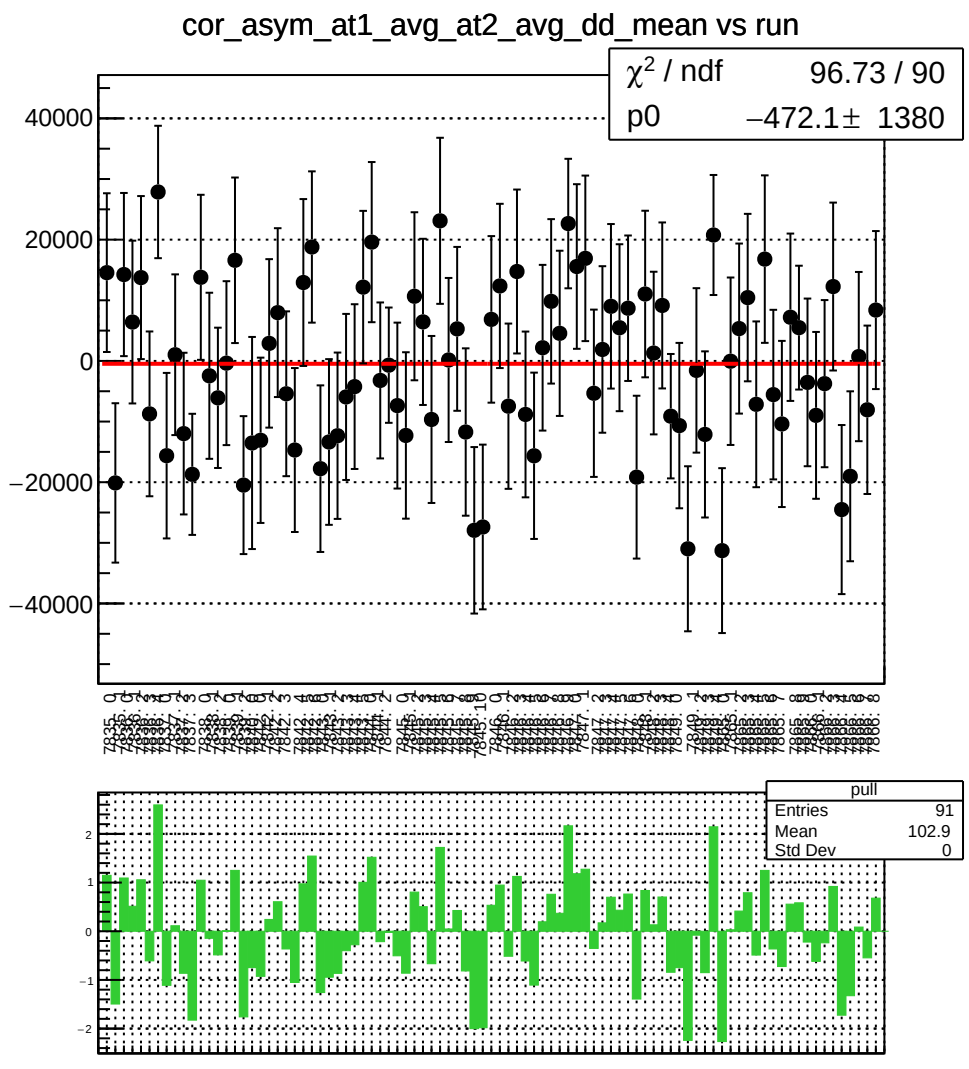

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

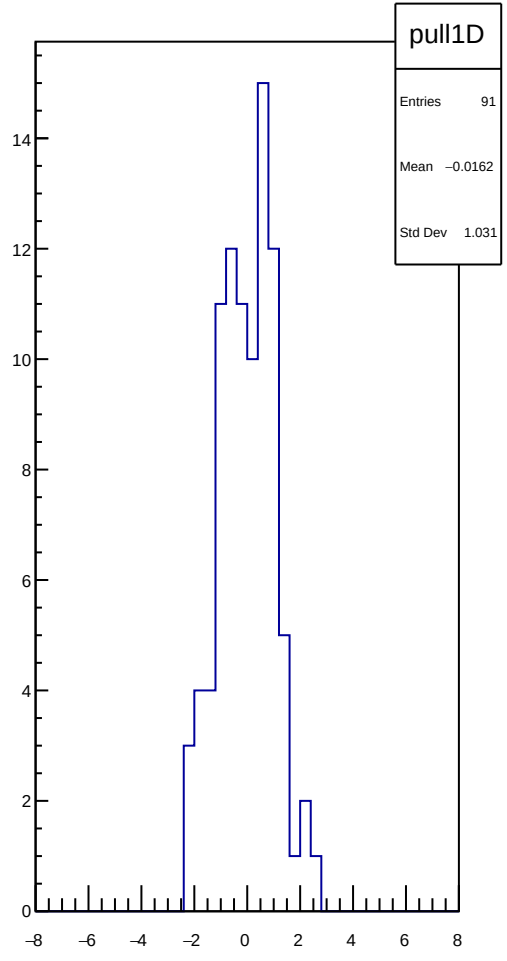

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

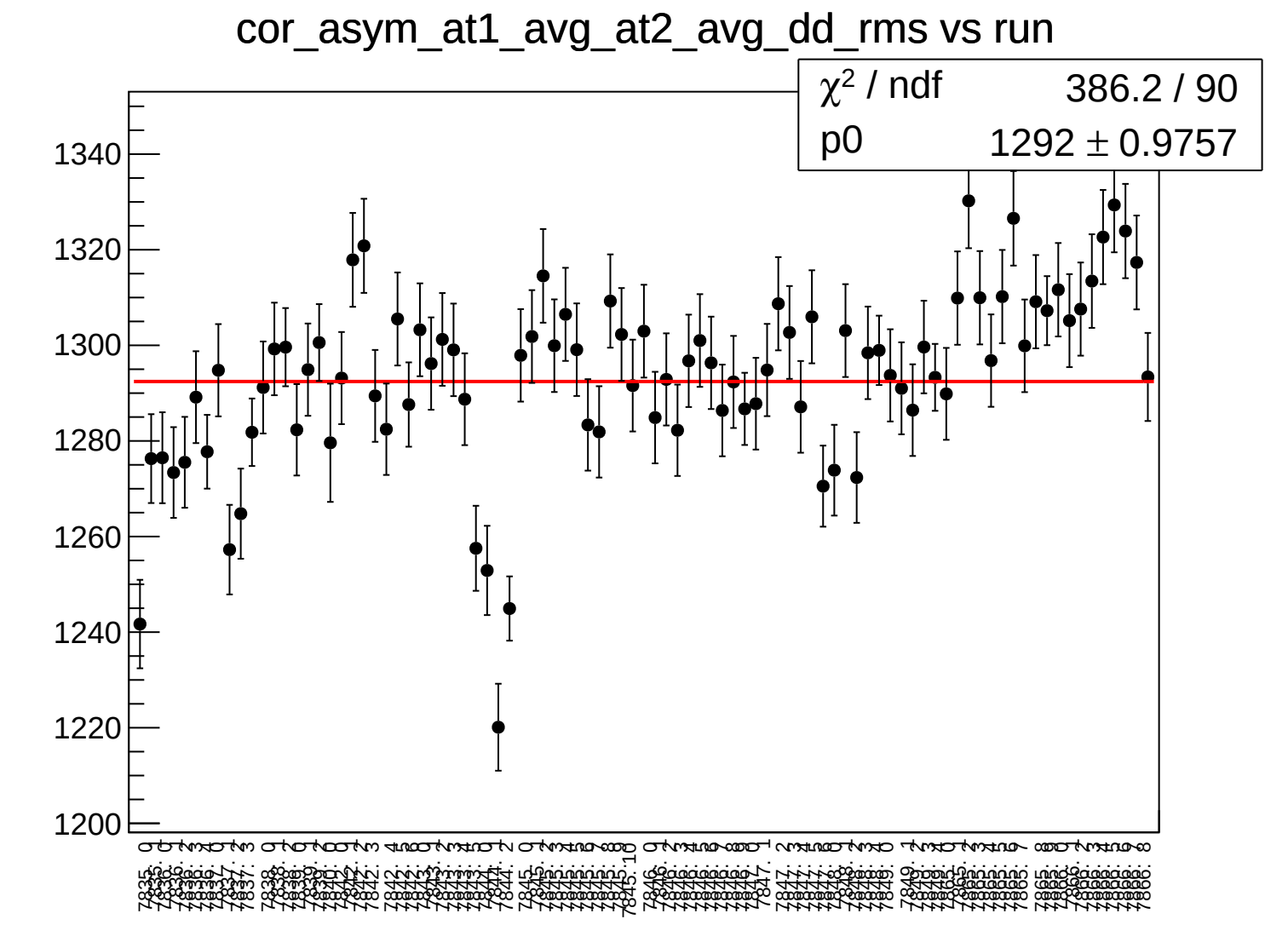

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.48
Std Dev 0

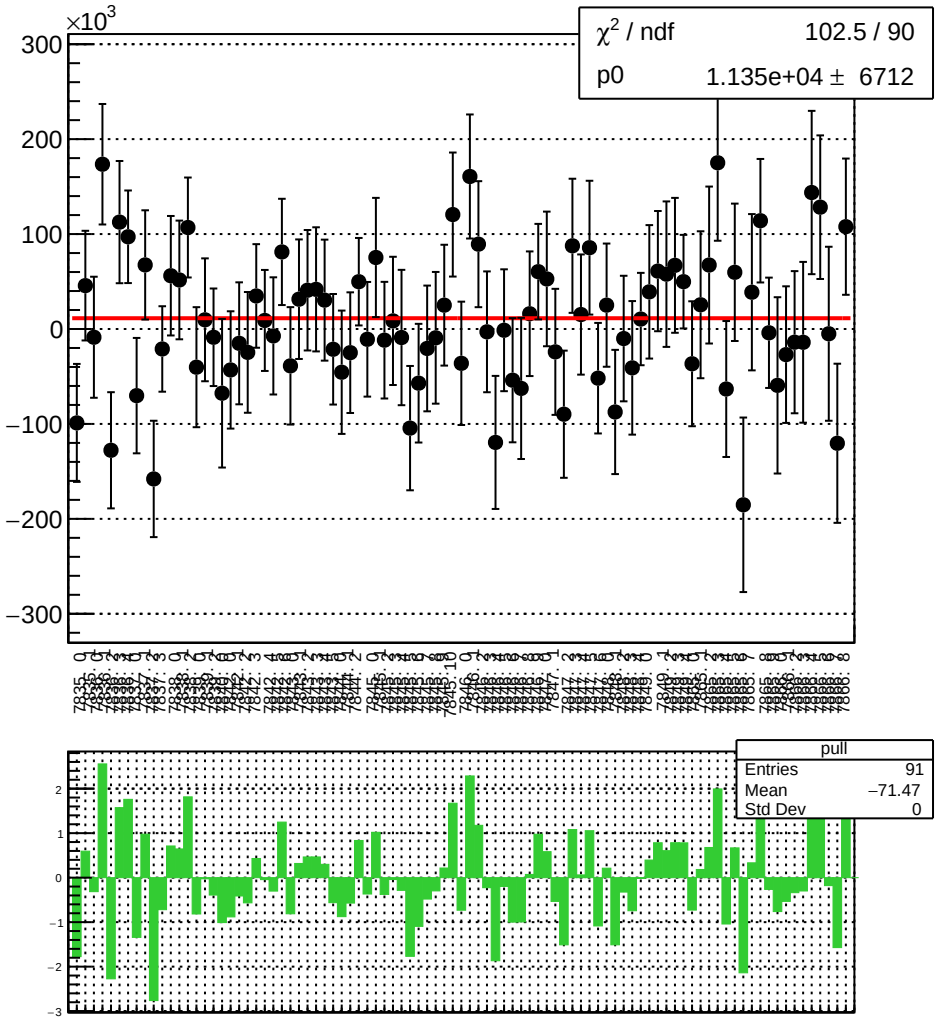

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

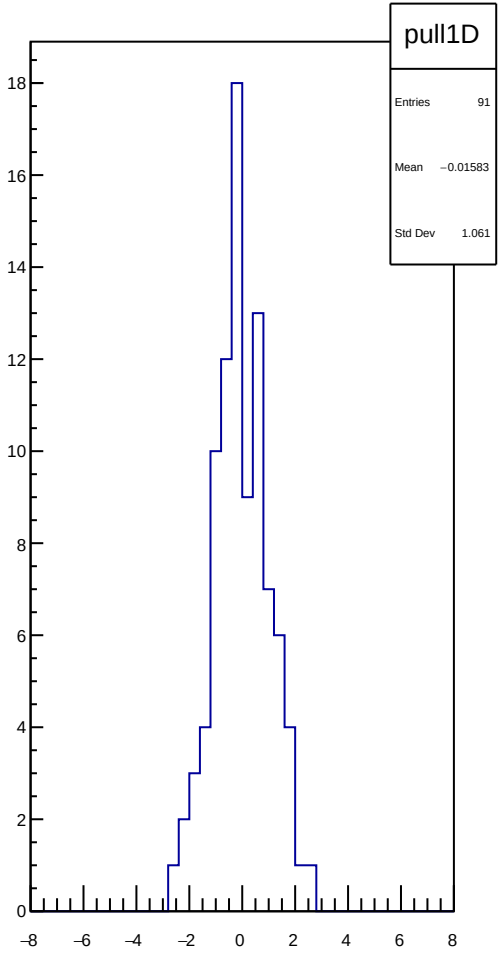

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

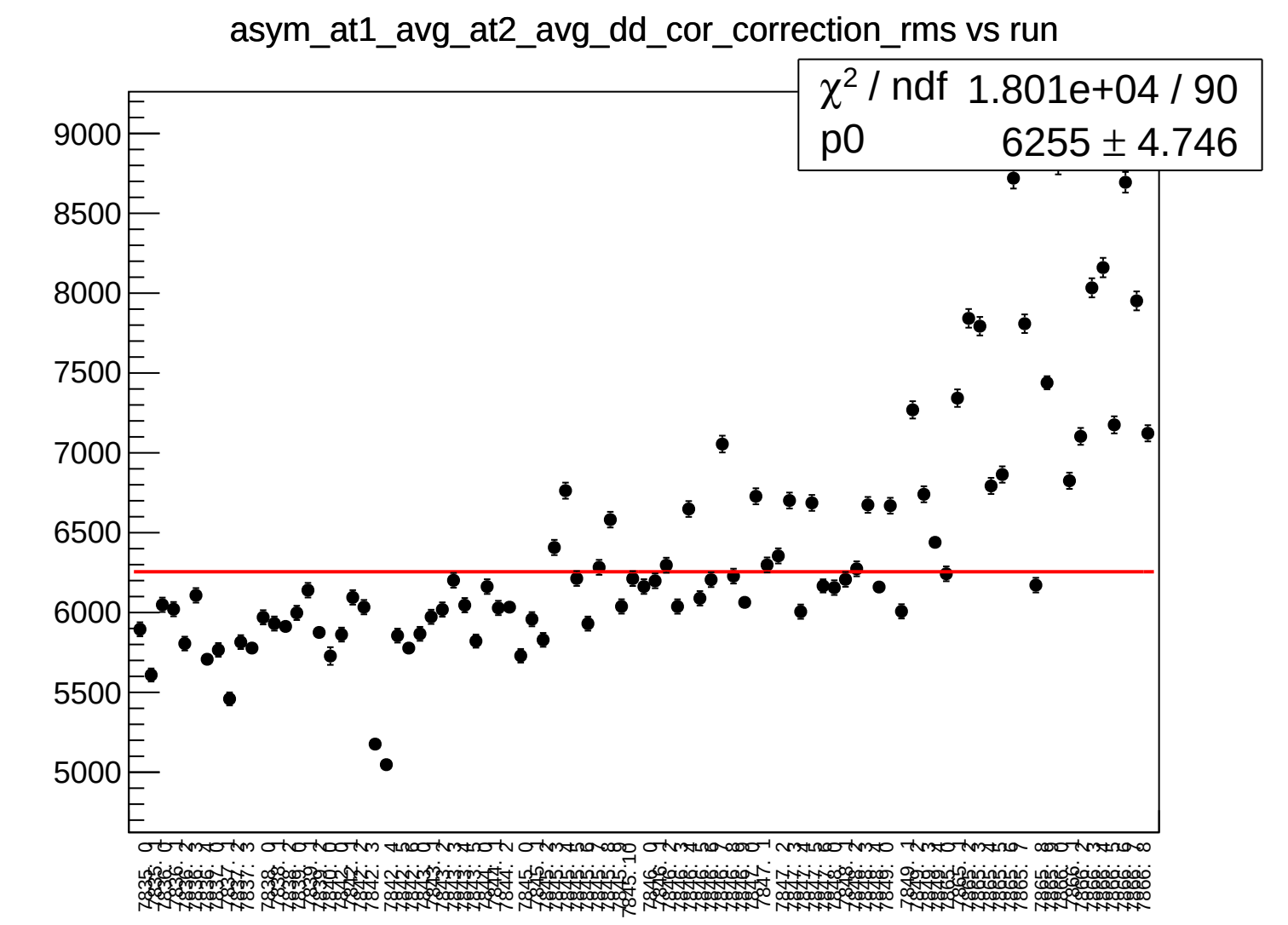

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.73 / 90
p0 −472.1± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

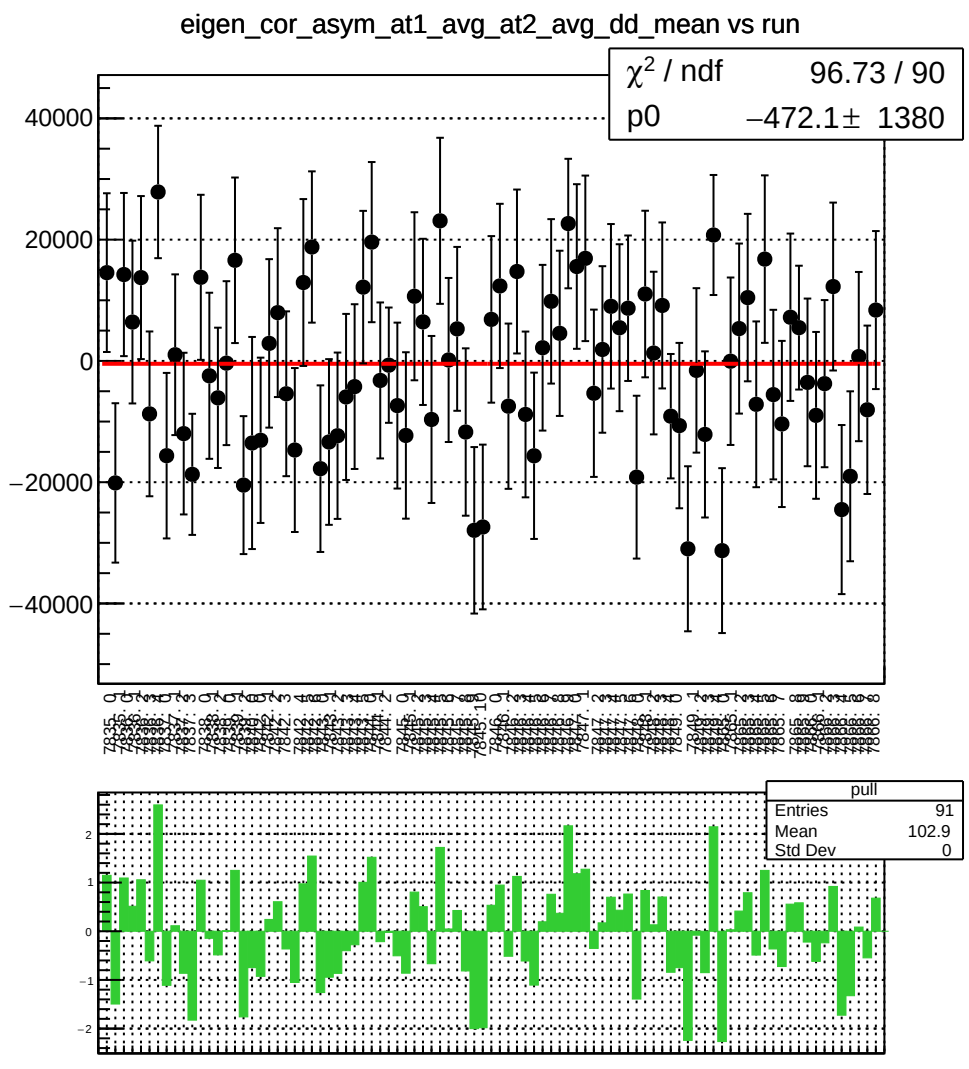

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

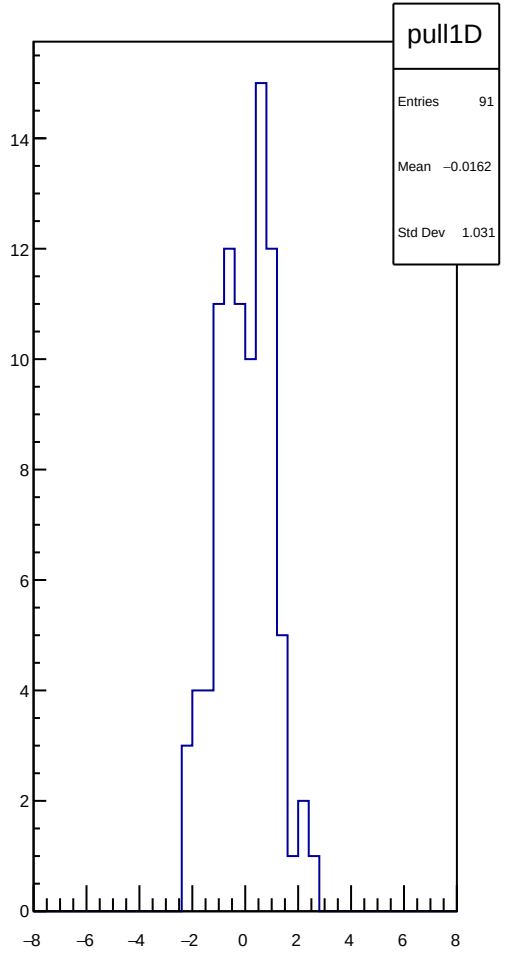

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

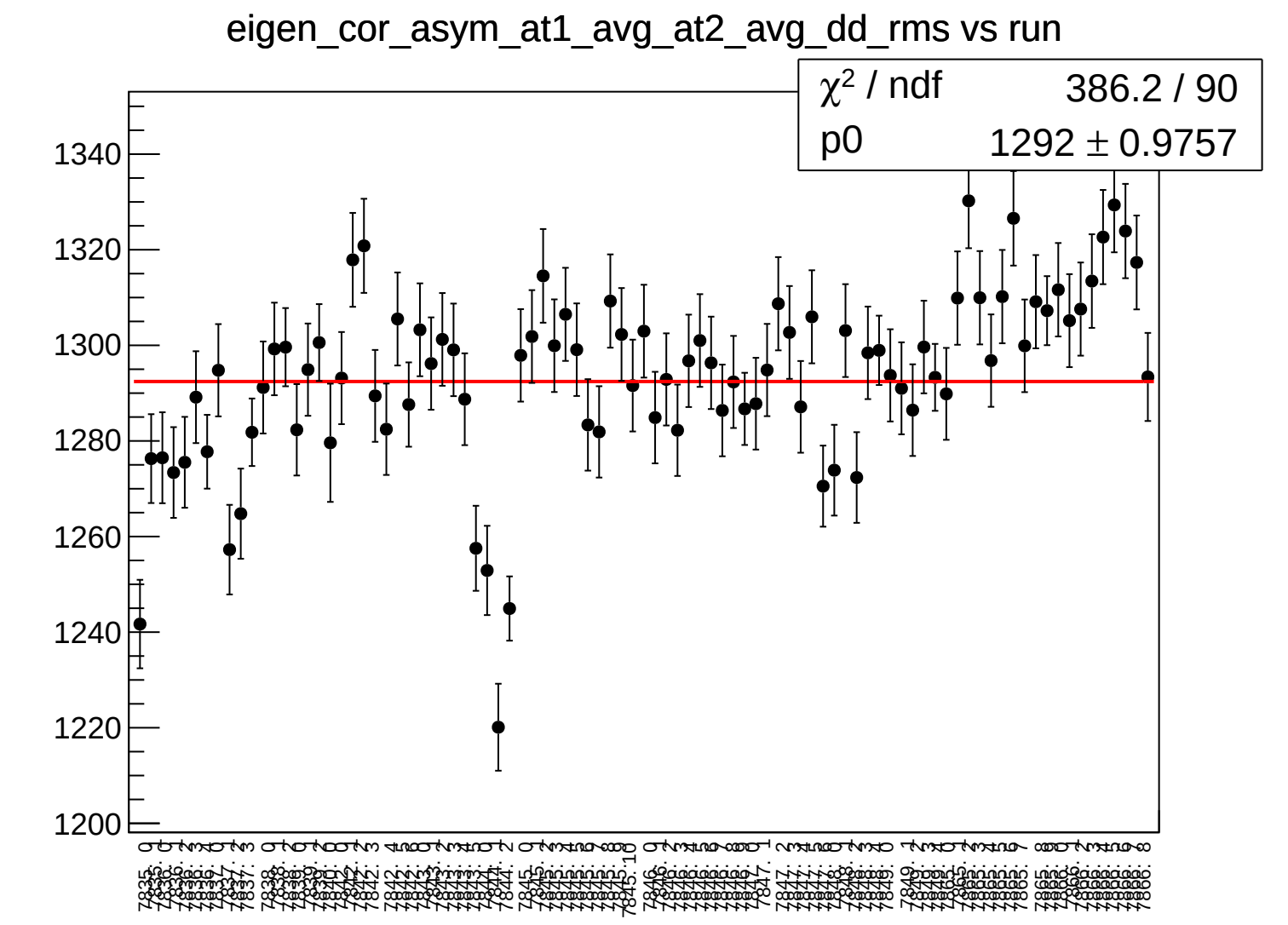

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.47
Std Dev 0

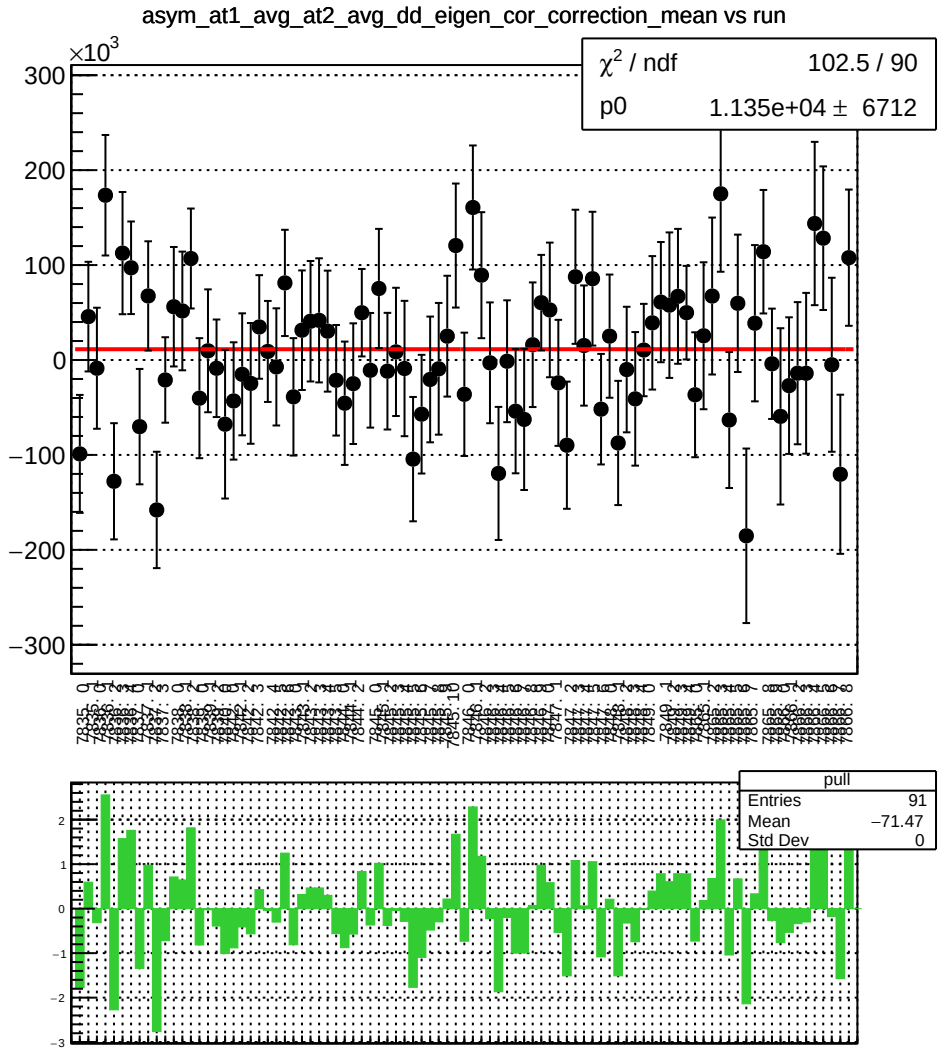

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

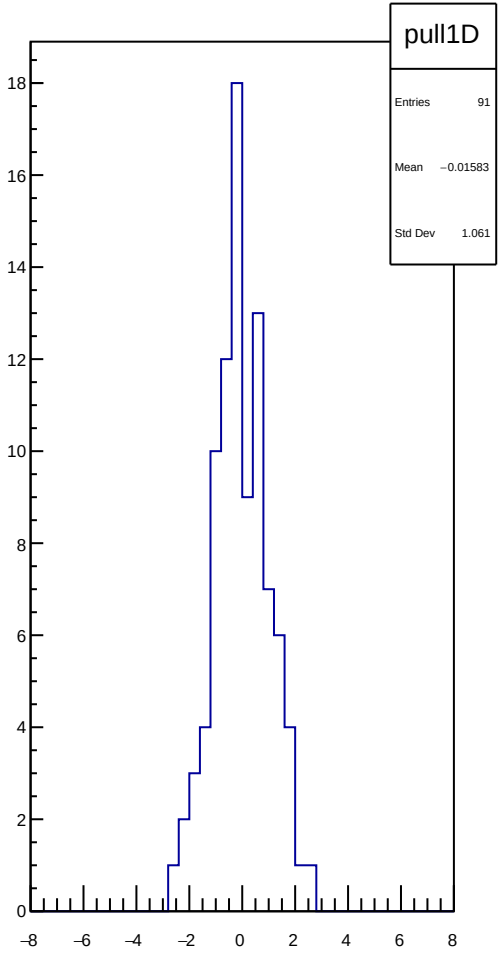

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ^2 / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

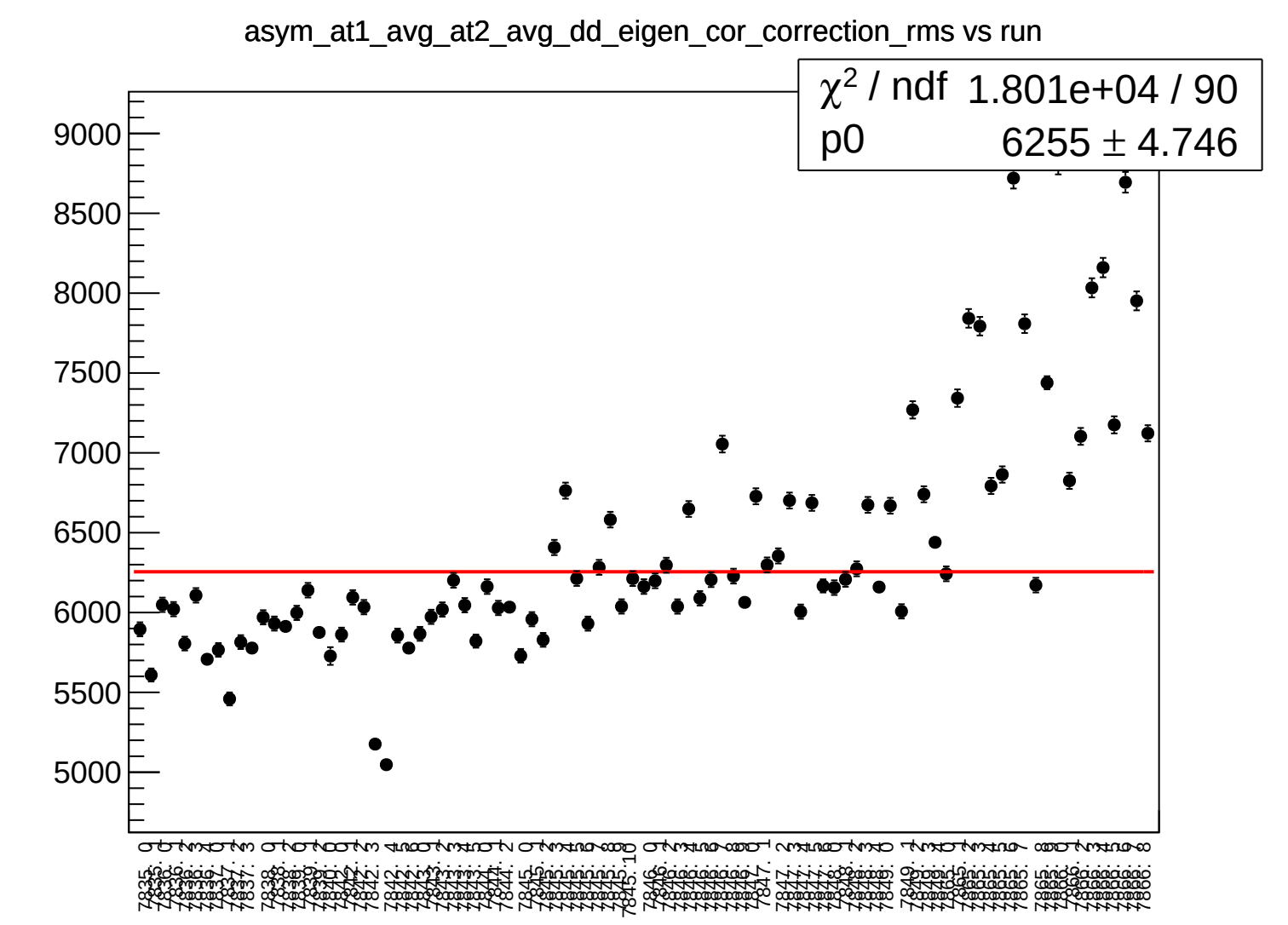

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.73 / 90
p0 −472.1± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

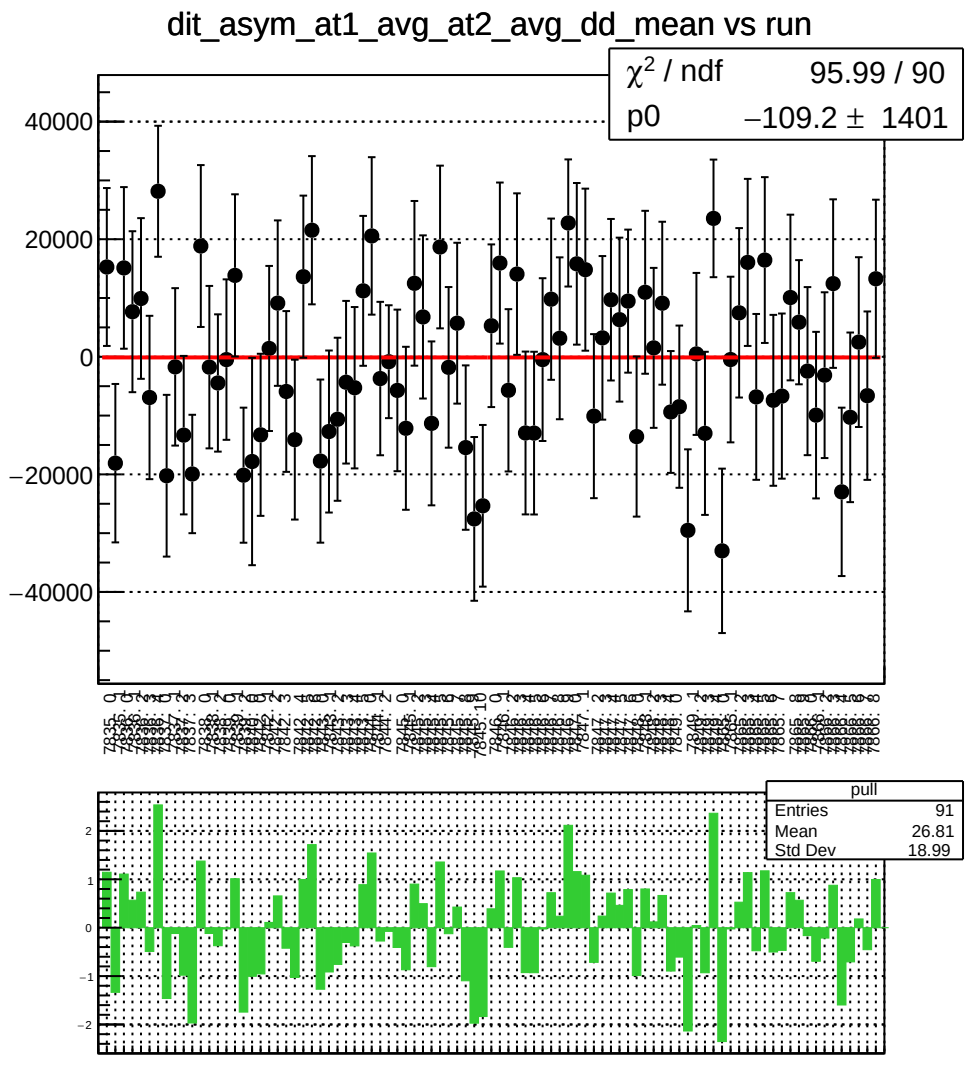

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

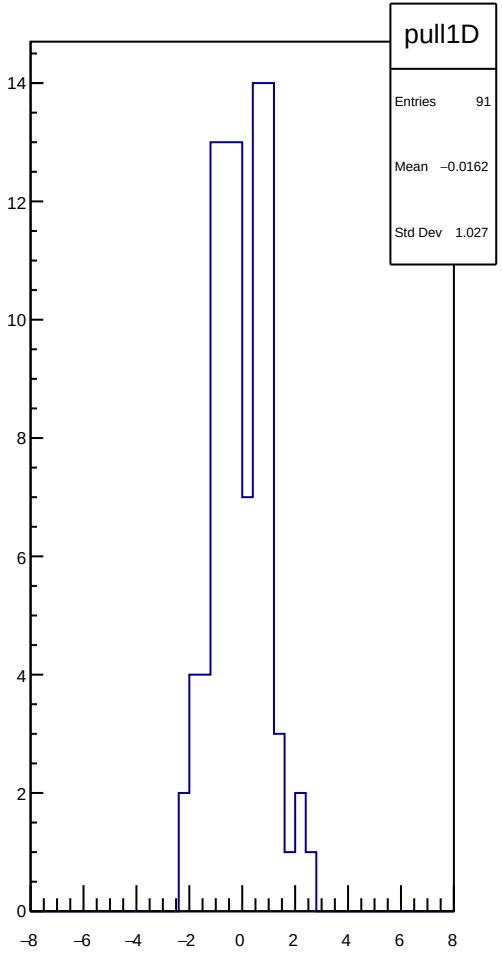

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

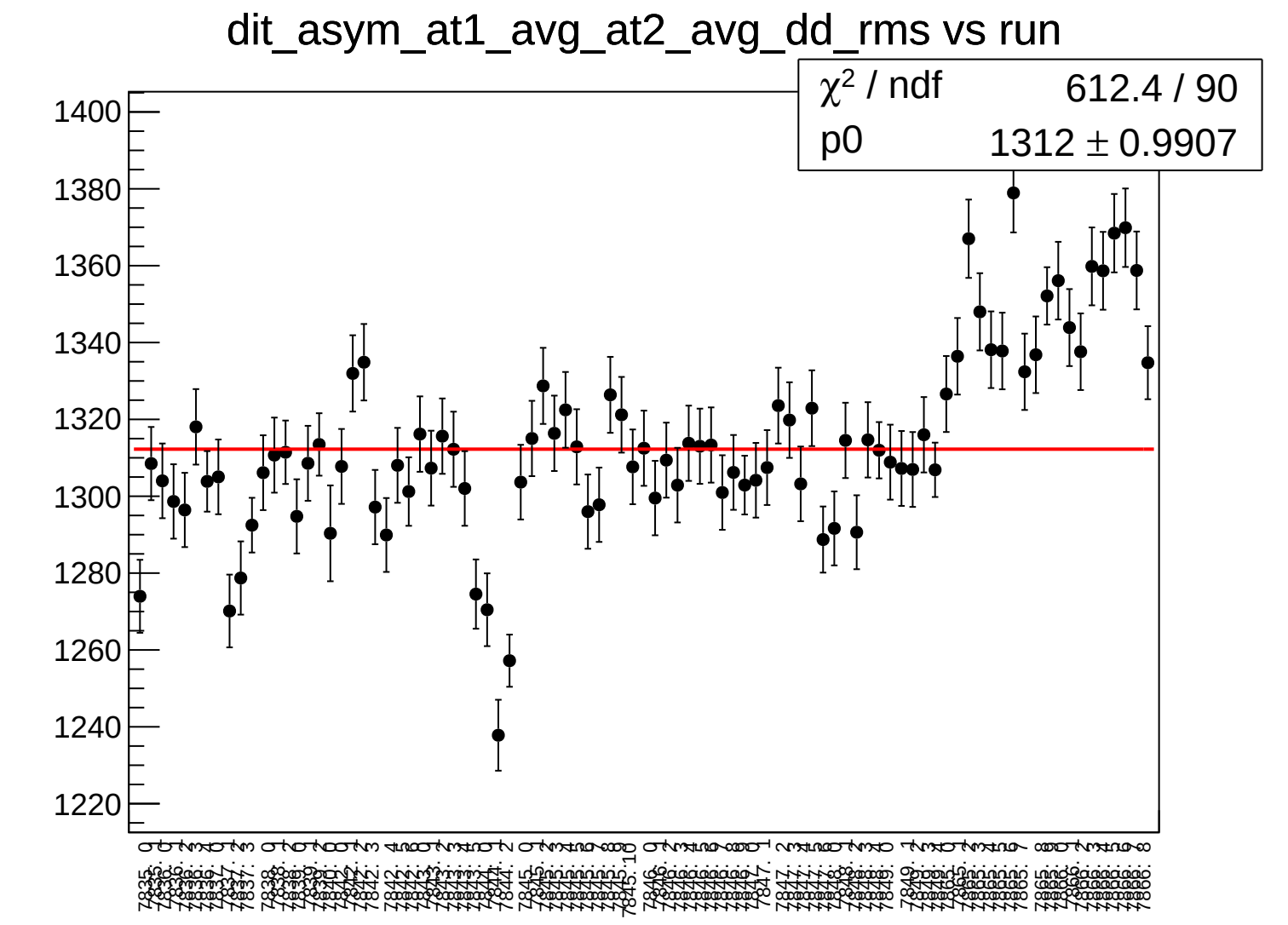

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
×10³
pull
Entries 91
Mean −71.47
Std Dev 0

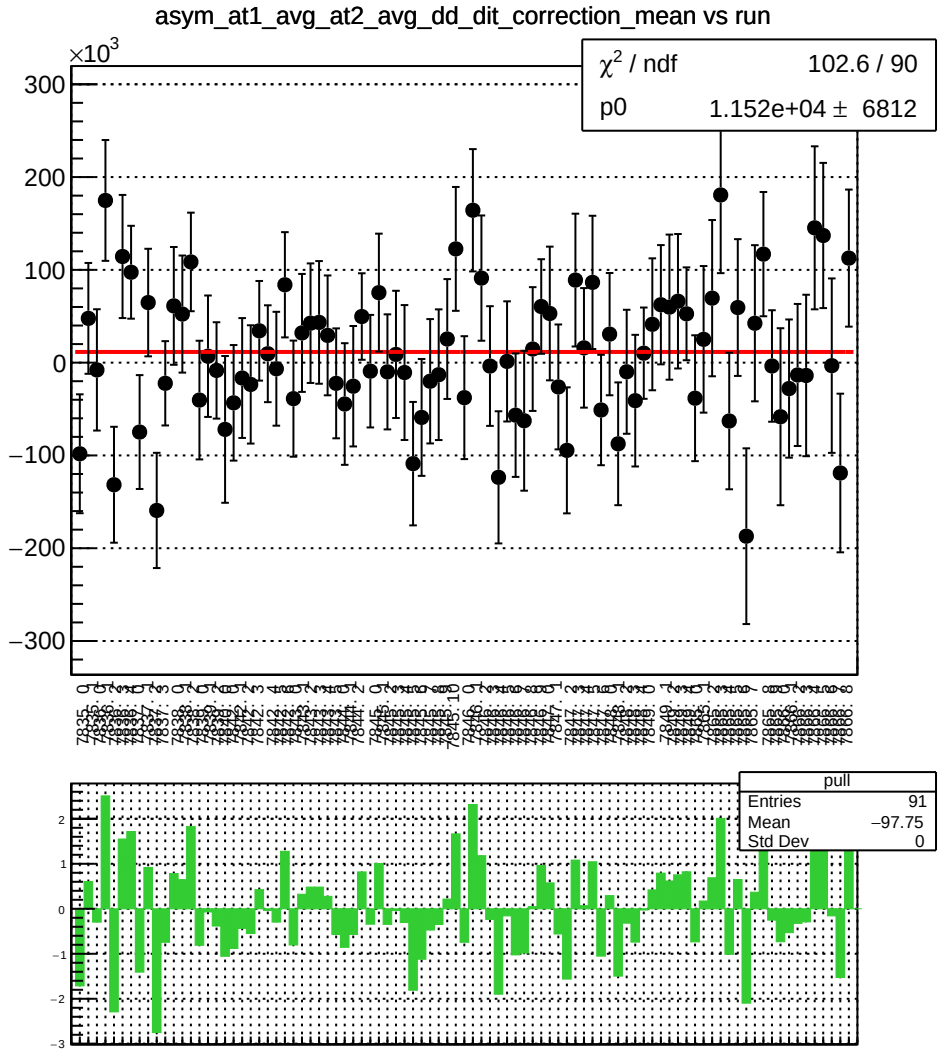

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

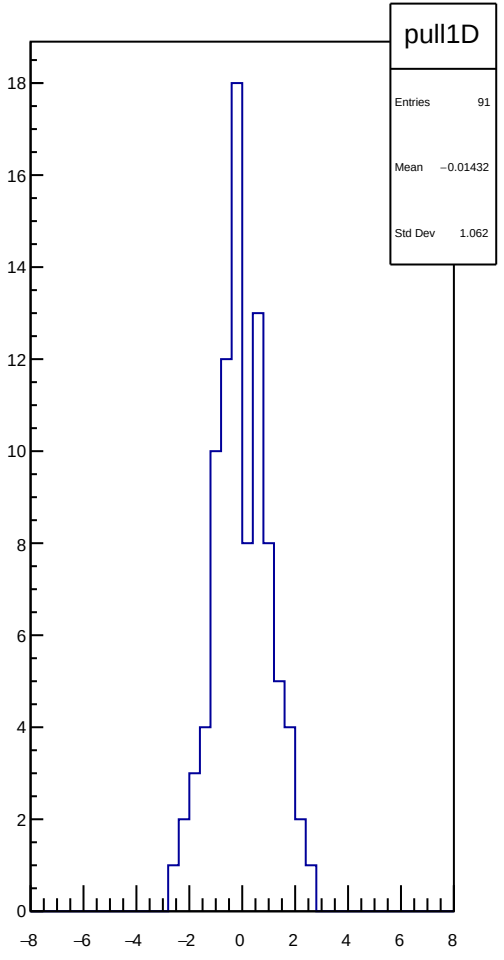

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

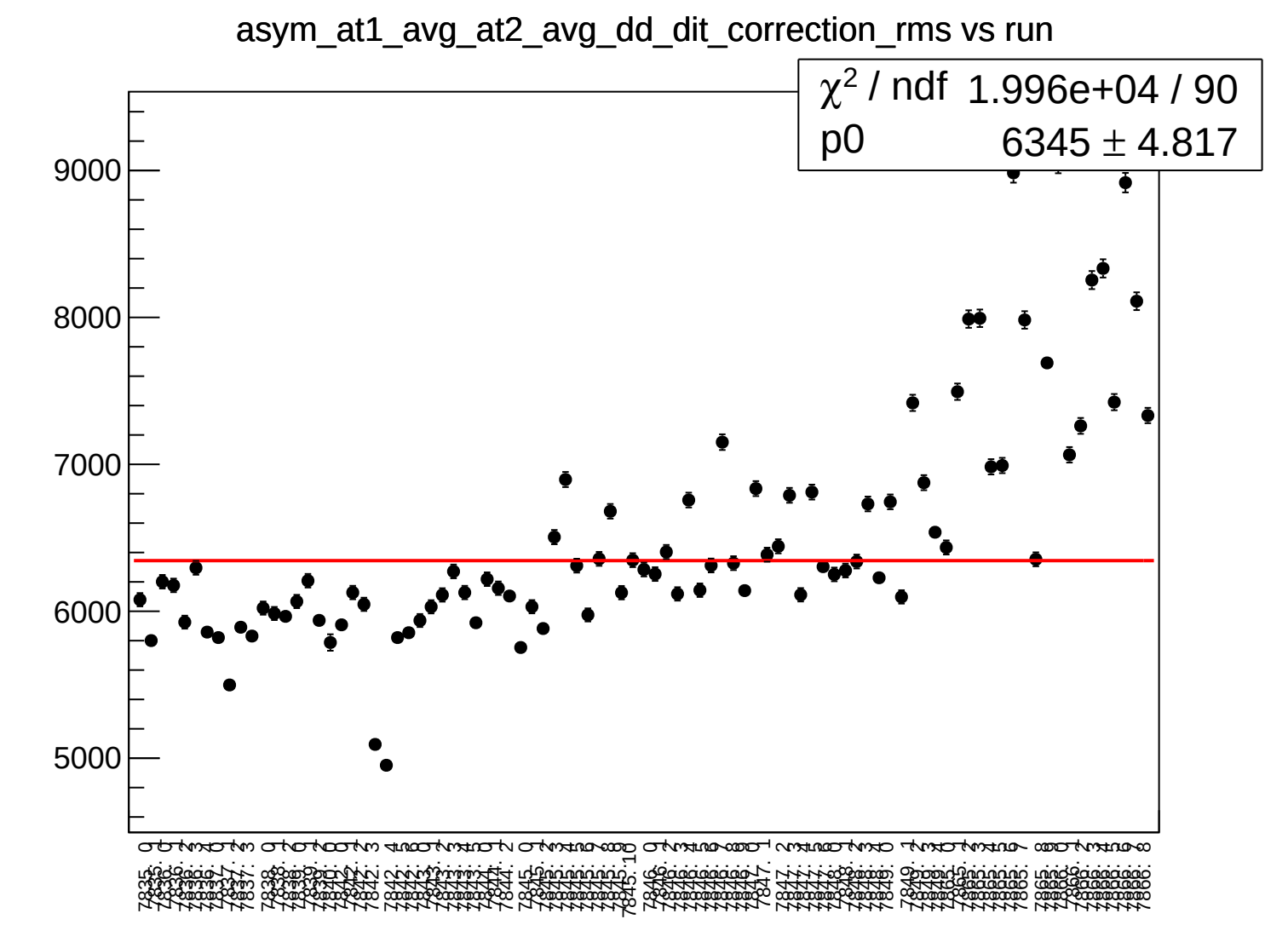

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.99 / 90
p0 −109.2 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 26.81
Std Dev 18.99
2
1
0
−1
−2

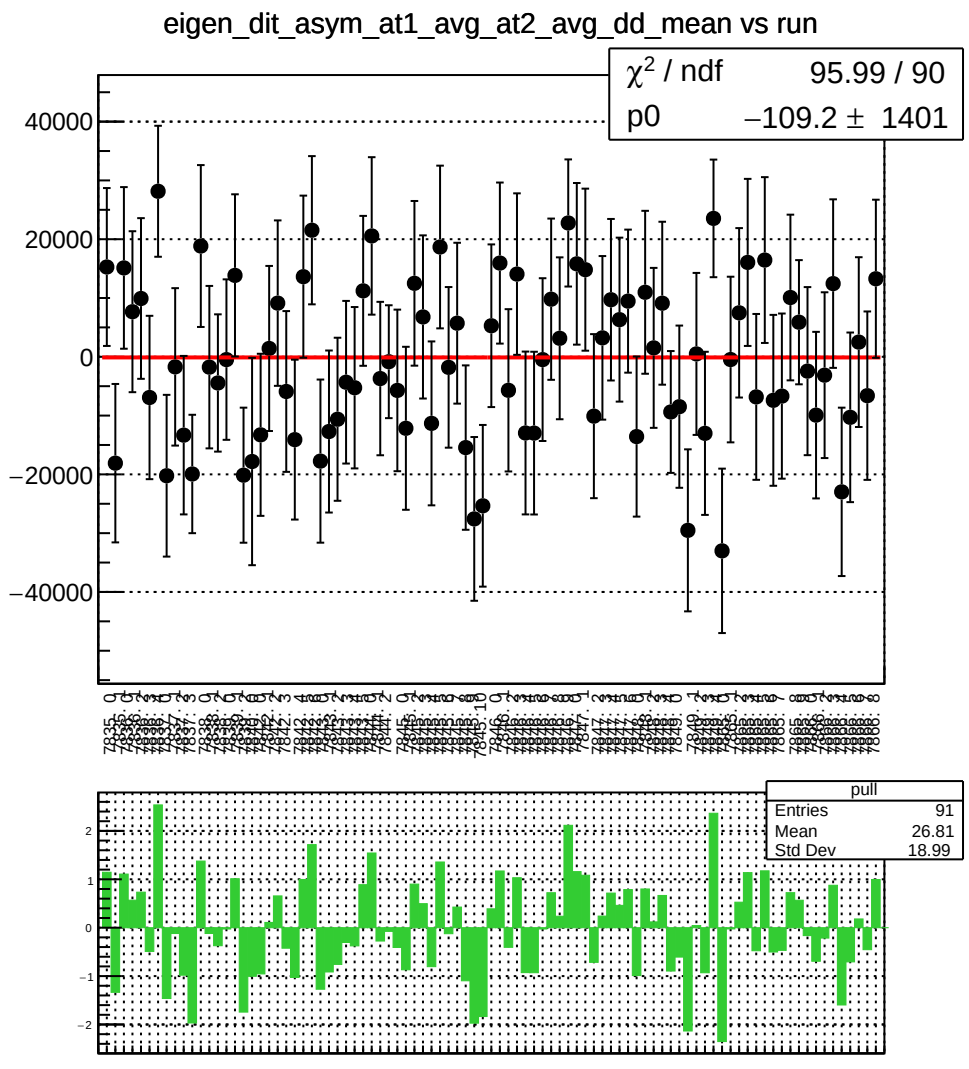

pull1D
Entries 91
Mean −0.0162
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

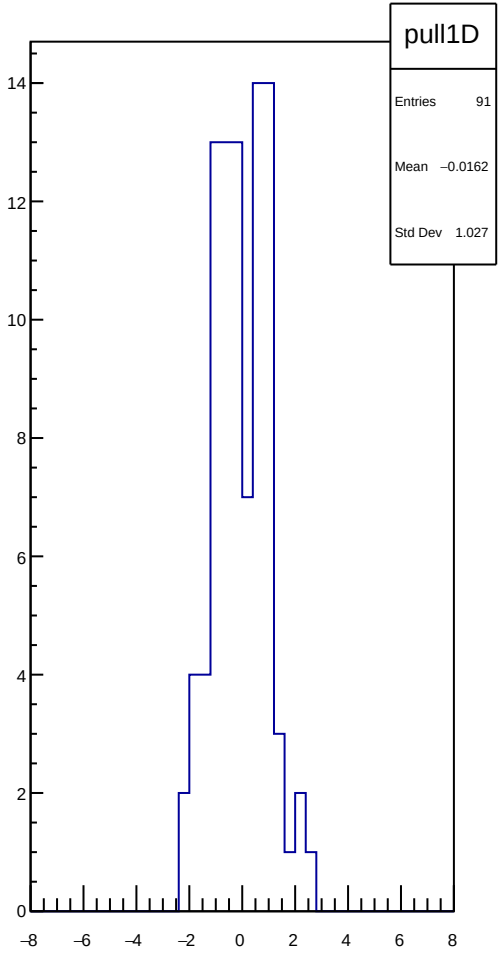

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 612.4 / 90
p0 1312 ± 0.9907
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

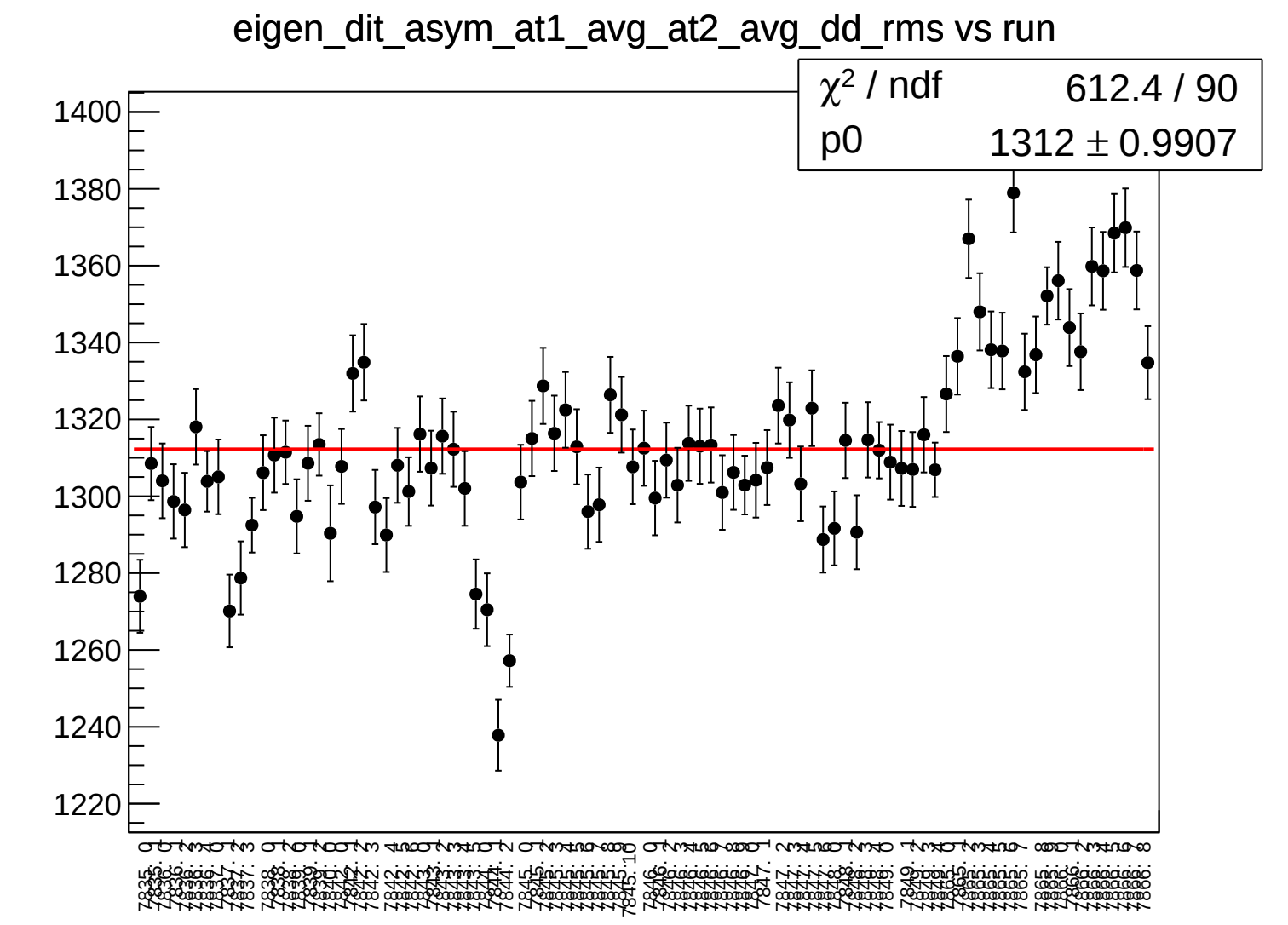

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 102.6 / 90
p0 1.152e+04 ± 6812
pull
Entries 91
Mean −97.75
Std Dev 0

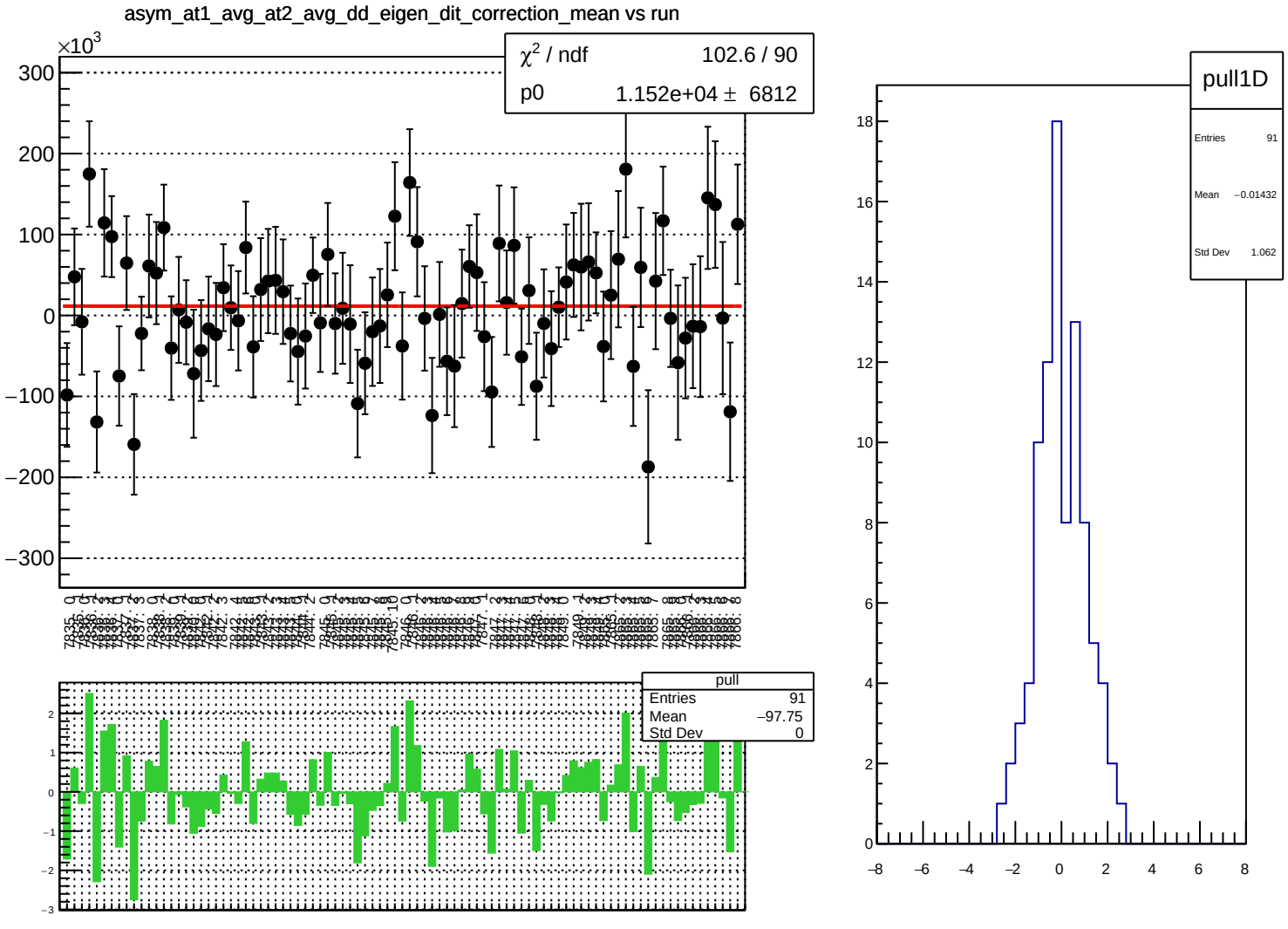

pull1D
Entries 91
Mean −0.01432
Std Dev 1.062

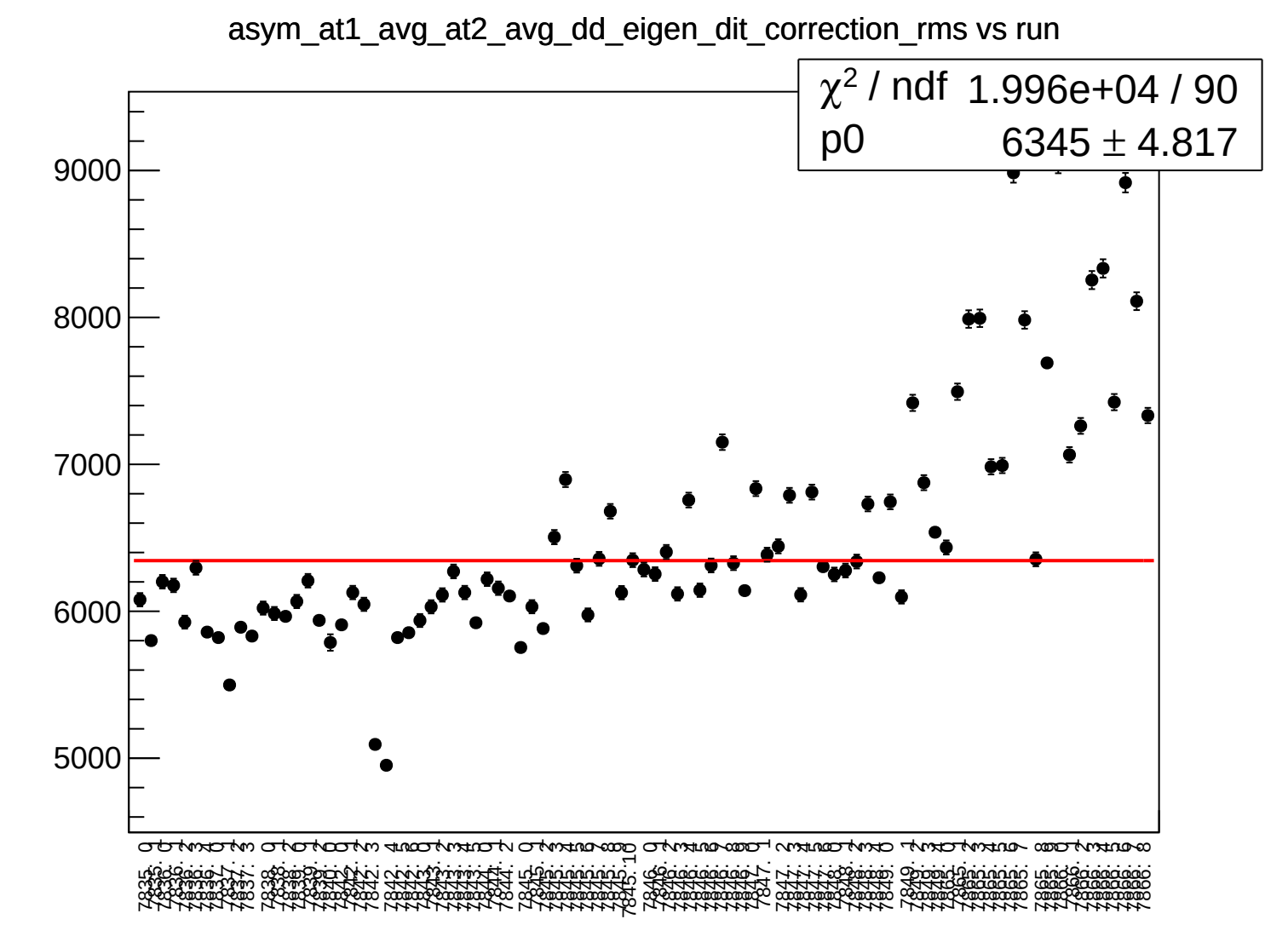

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ^2 / ndf 1.996e+04 / 90
p0 6345 ± 4.817
9000
8000
7000
6000
5000

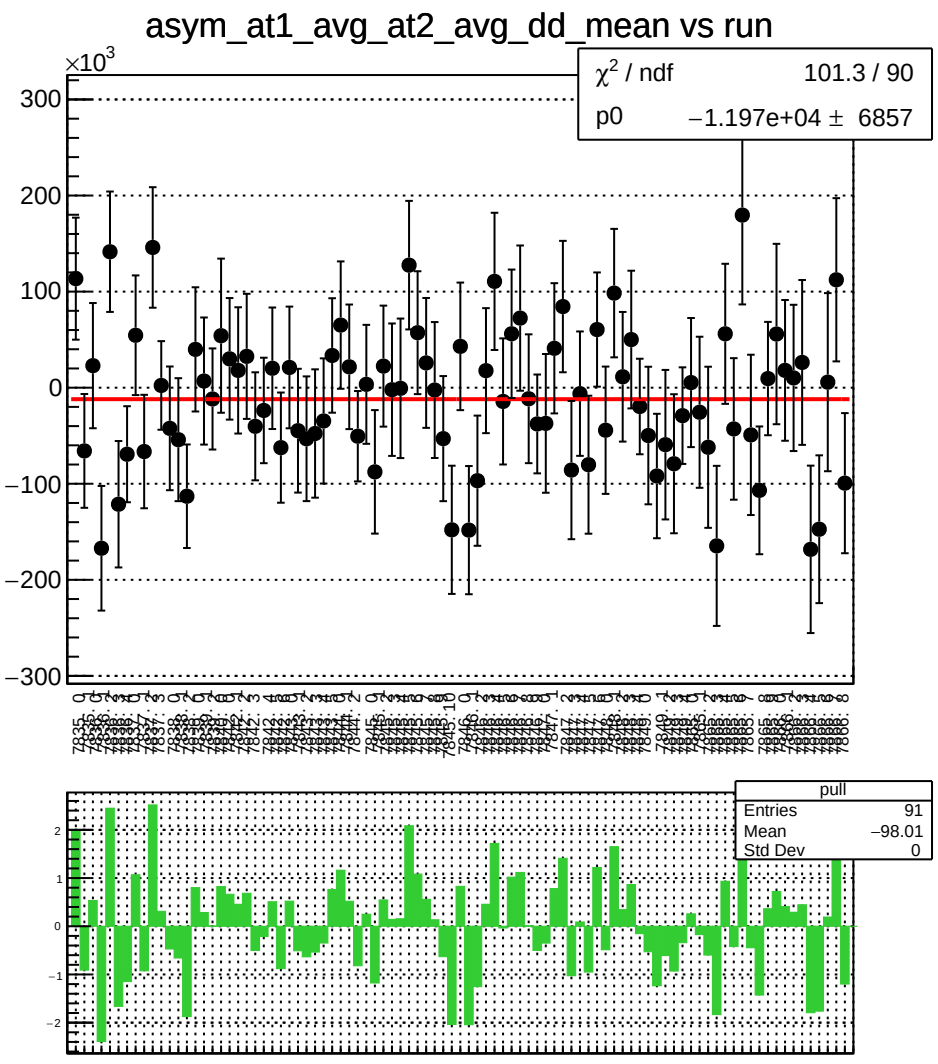

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.99 / 90
p0 −109.2 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 26.81
Std Dev 18.99
2
1
0
−1
−2

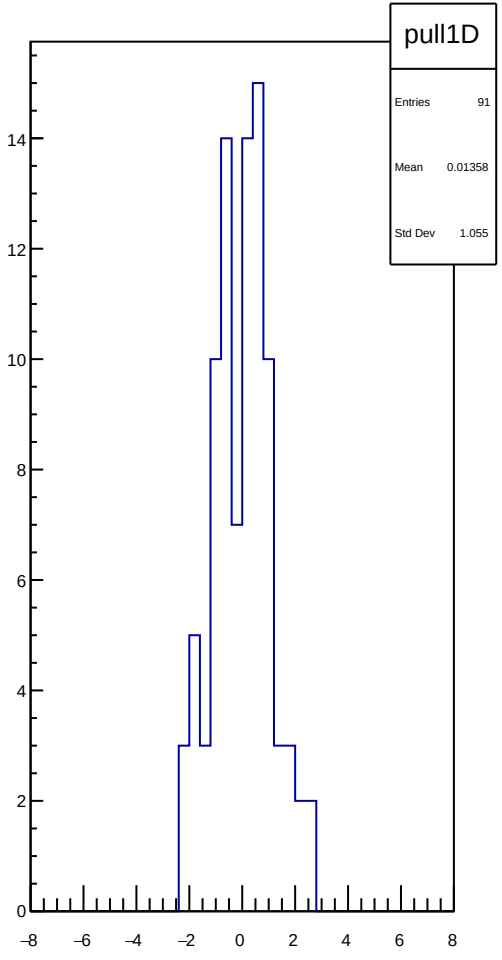

pull1D
Entries 91
Mean −0.0162
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

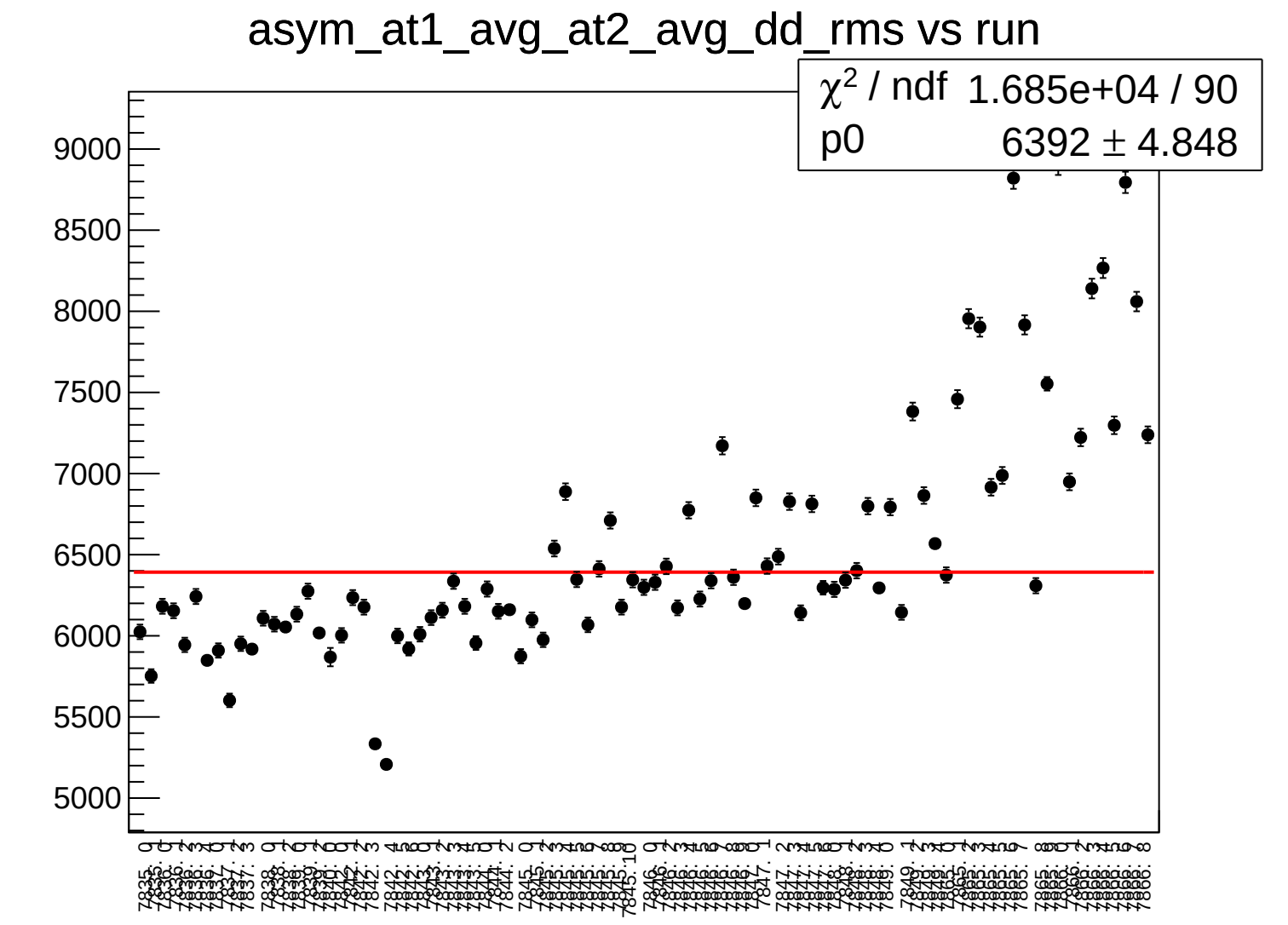

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 612.4 / 90
p0 1312 ± 0.9907
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

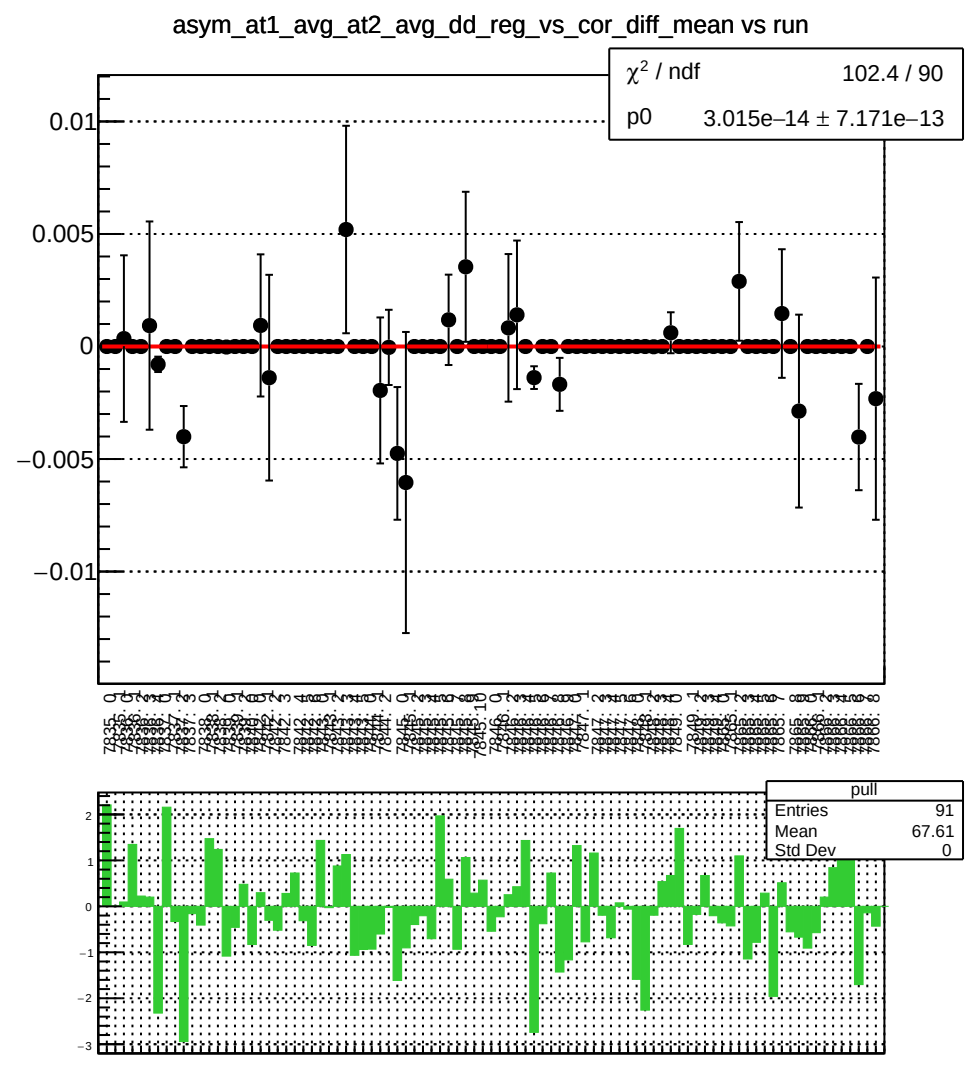

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.6 / 90
p0 1.152e+04 ± 6812
pull
Entries 91
Mean −97.75
Std Dev 0
pull1D
Entries 91
Mean −0.01432
Std Dev 1.062

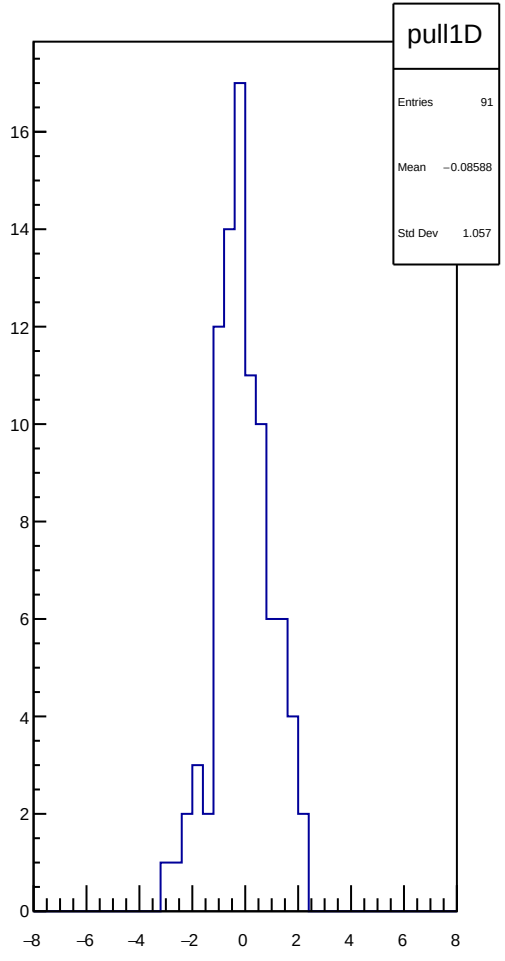

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.996e+04 / 90
p0 6345 ± 4.817
9000
8000
7000
6000
5000

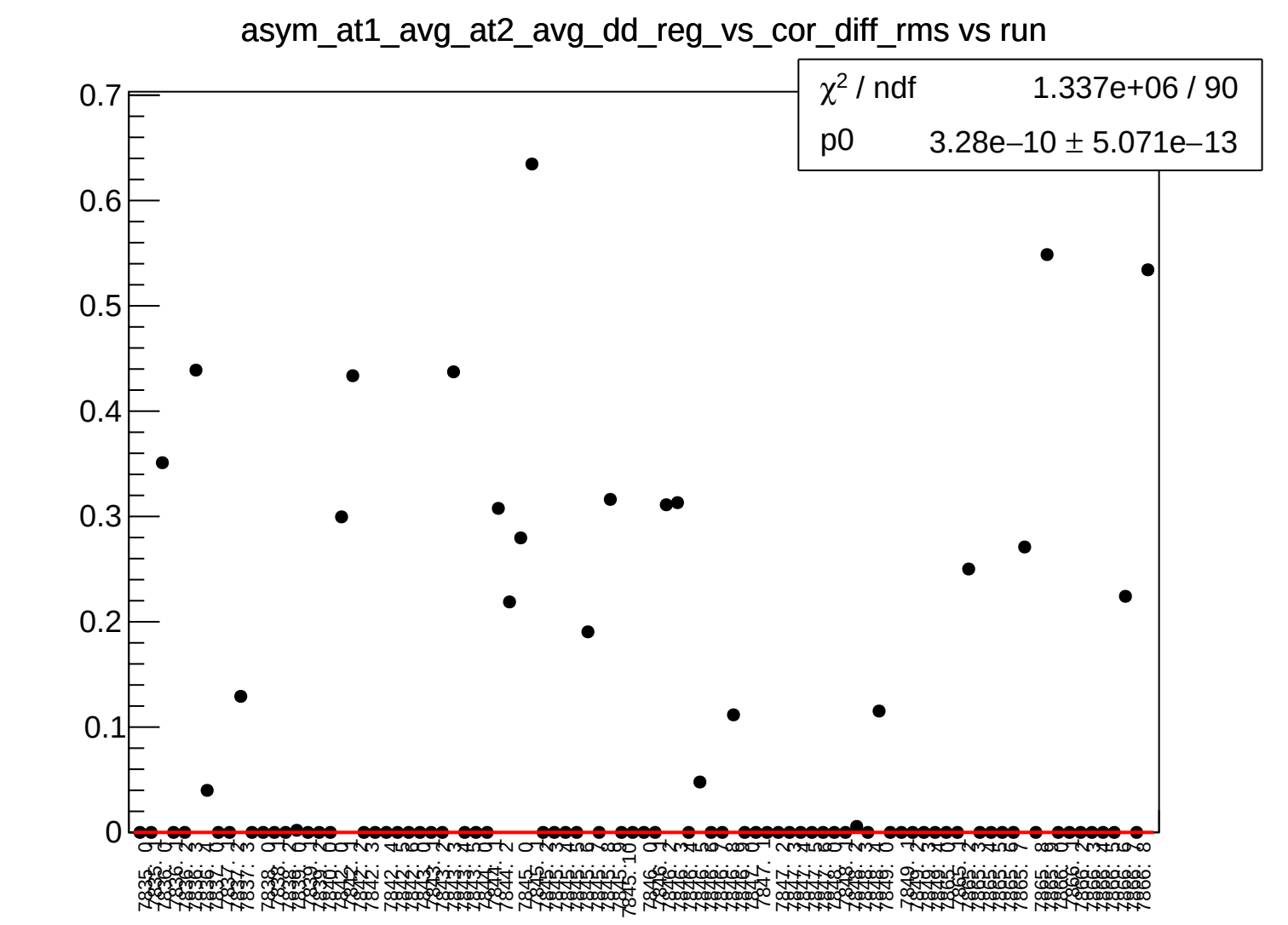

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 101.3 / 90
p0 −1.197e+04 ± 6857
pull
Entries 91
Mean −98.01
Std Dev 0

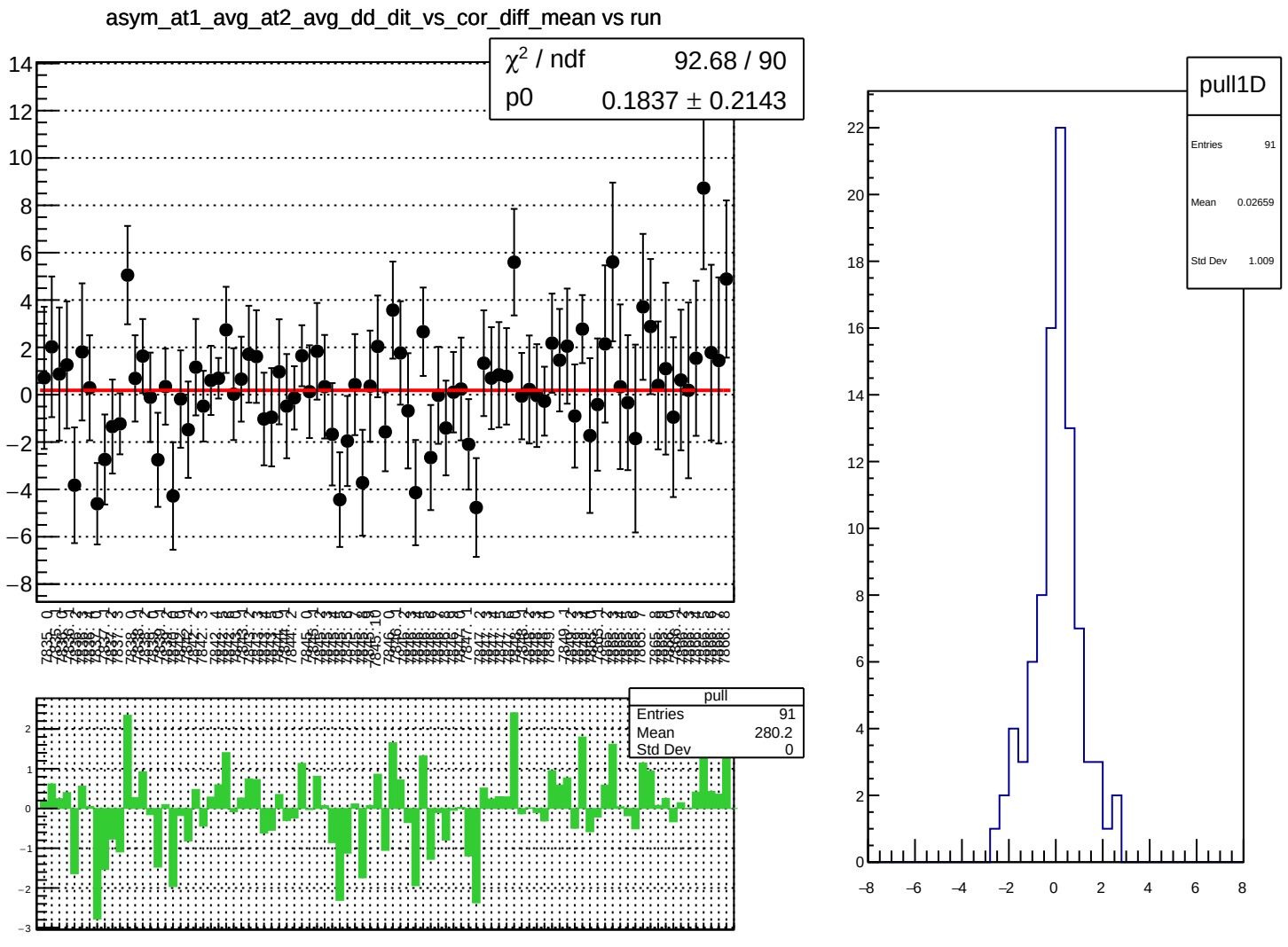

pull1D
Entries 91
Mean 0.01358
Std Dev 1.055

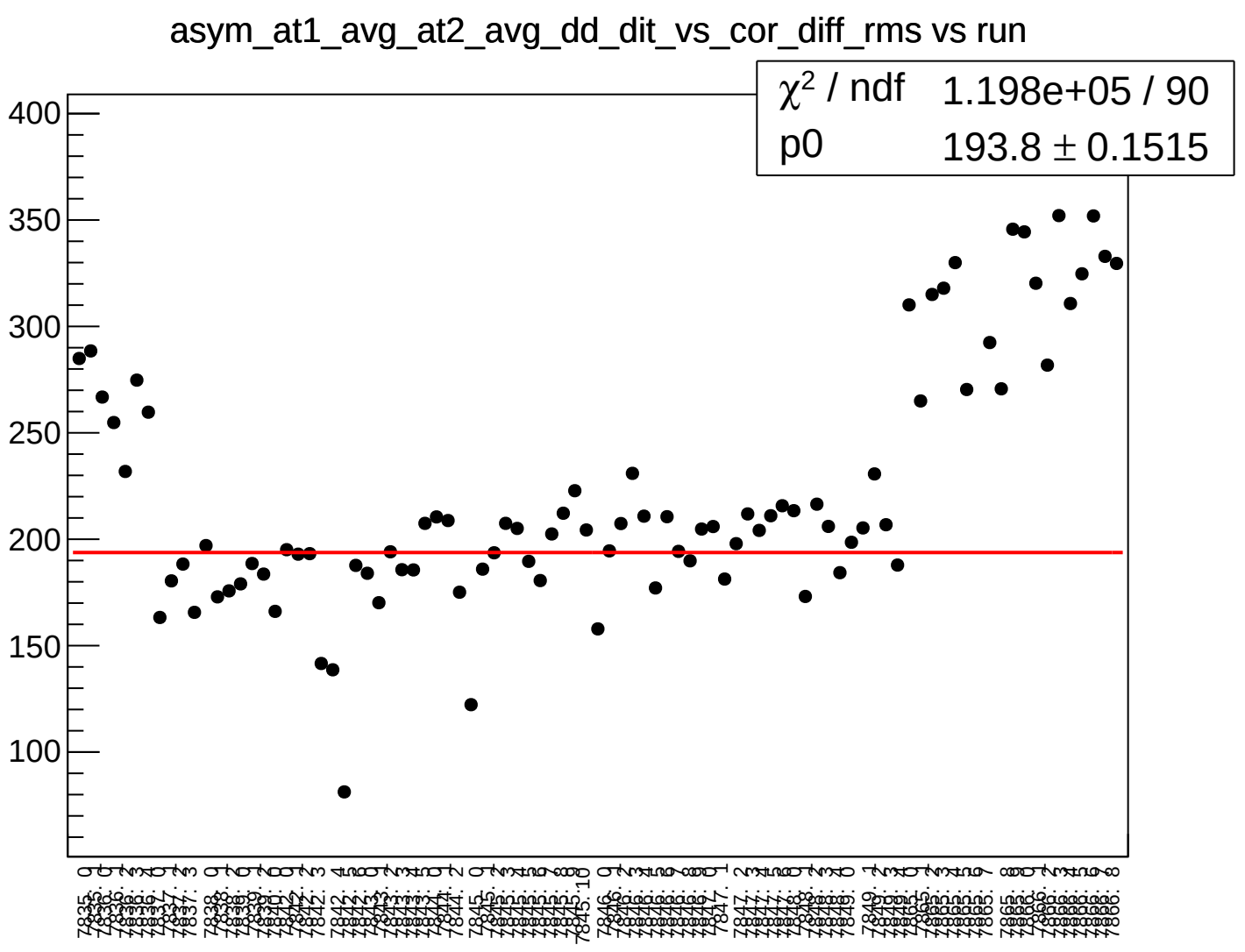

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 1.685e+04 / 90
p0 6392 ± 4.848
9000
8500
8000
7500
7000
6500
6000
5500
5000

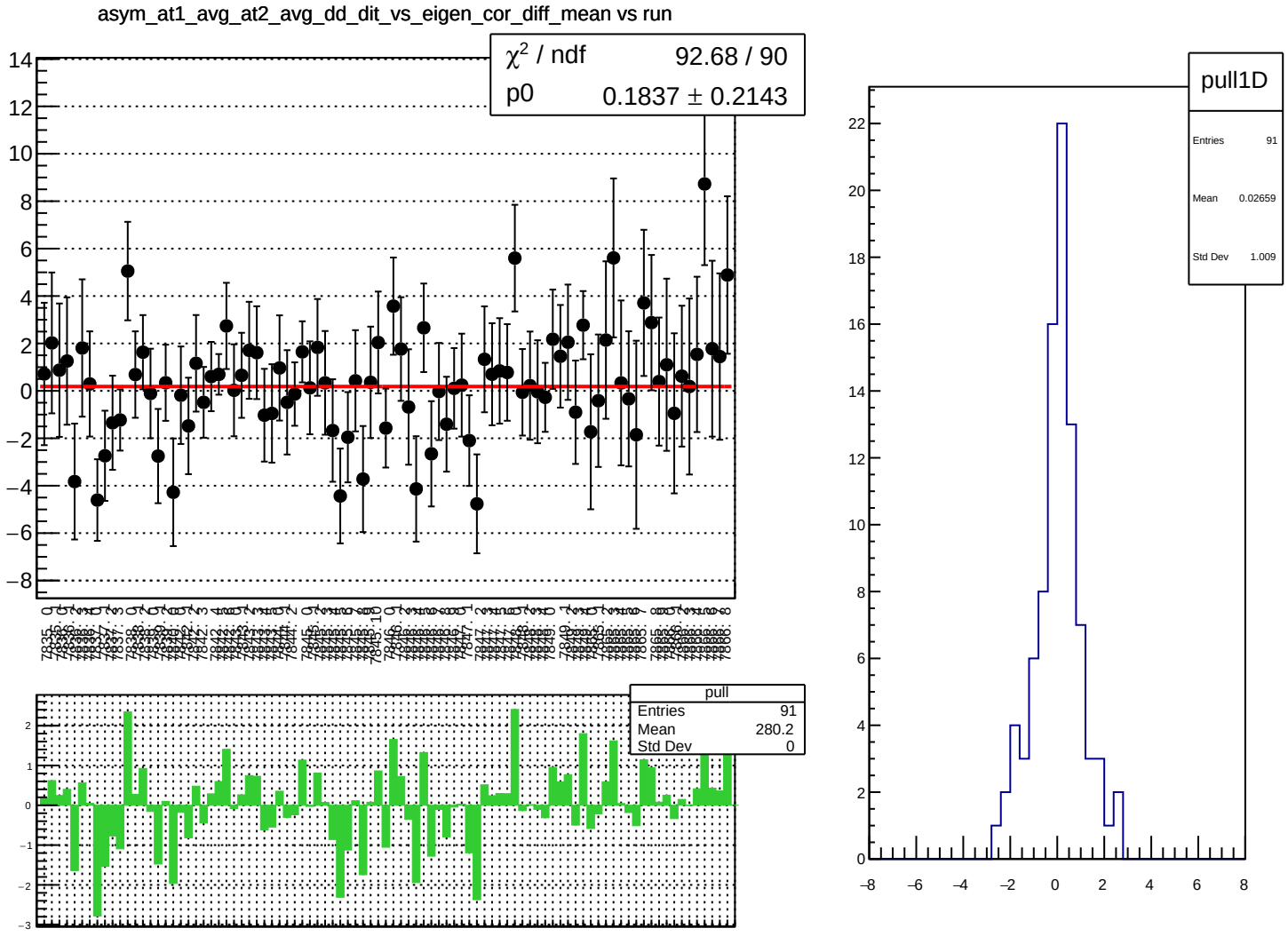

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 90
p0 3.015e−14 ± 7.171e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 67.61
Std Dev 0
2
1
0
−1
−2
−3

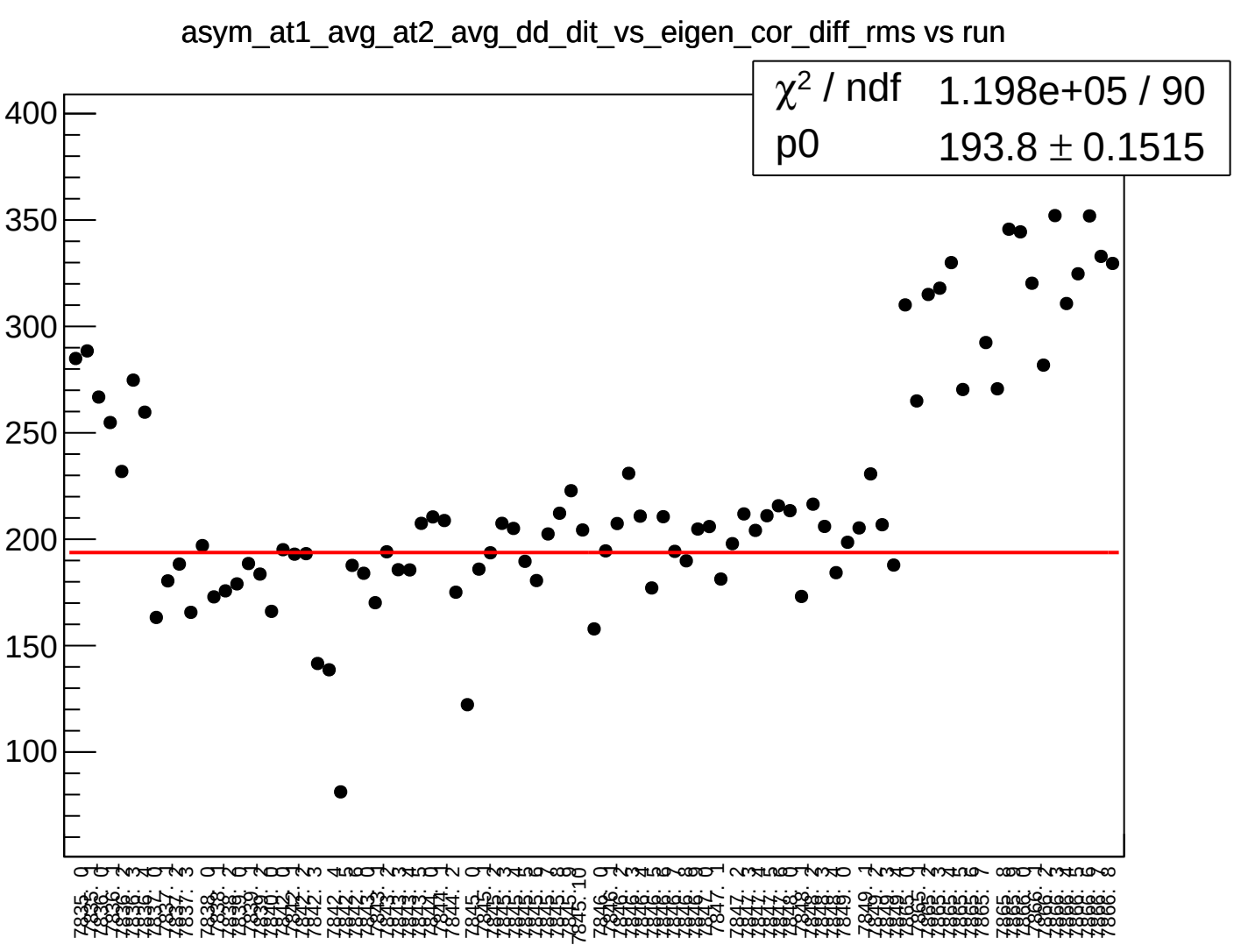

pull1D
Entries 91
Mean −0.08588
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

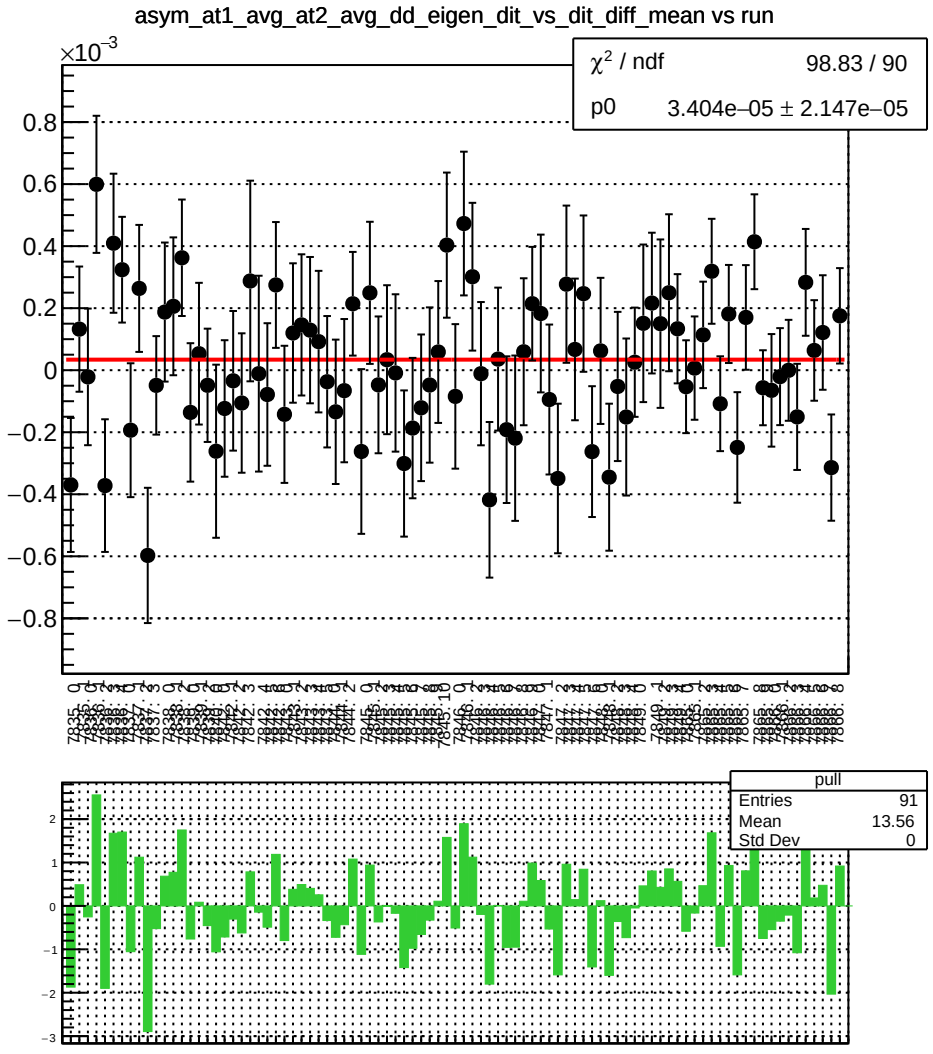

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.337e+06 / 90
p0 3.28e−10 ± 5.071e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

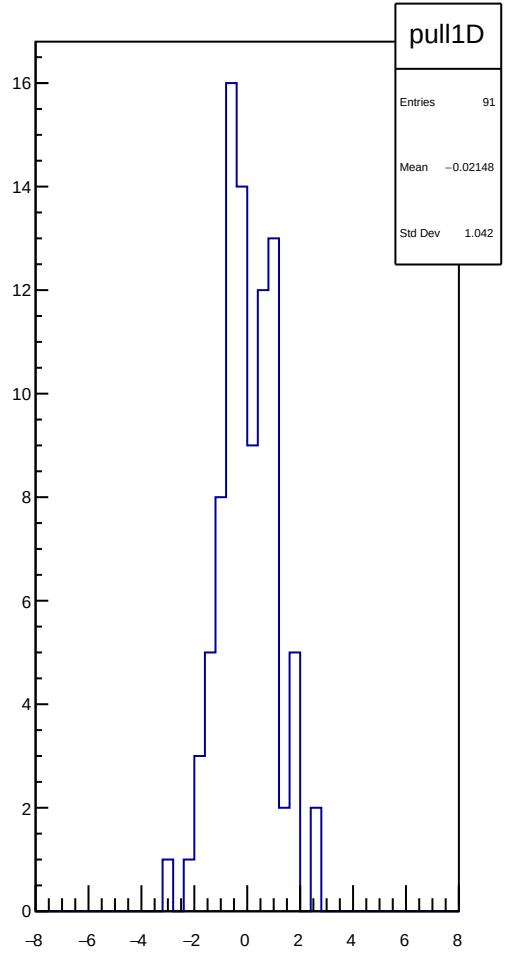

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1837 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02659
Std Dev 1.009

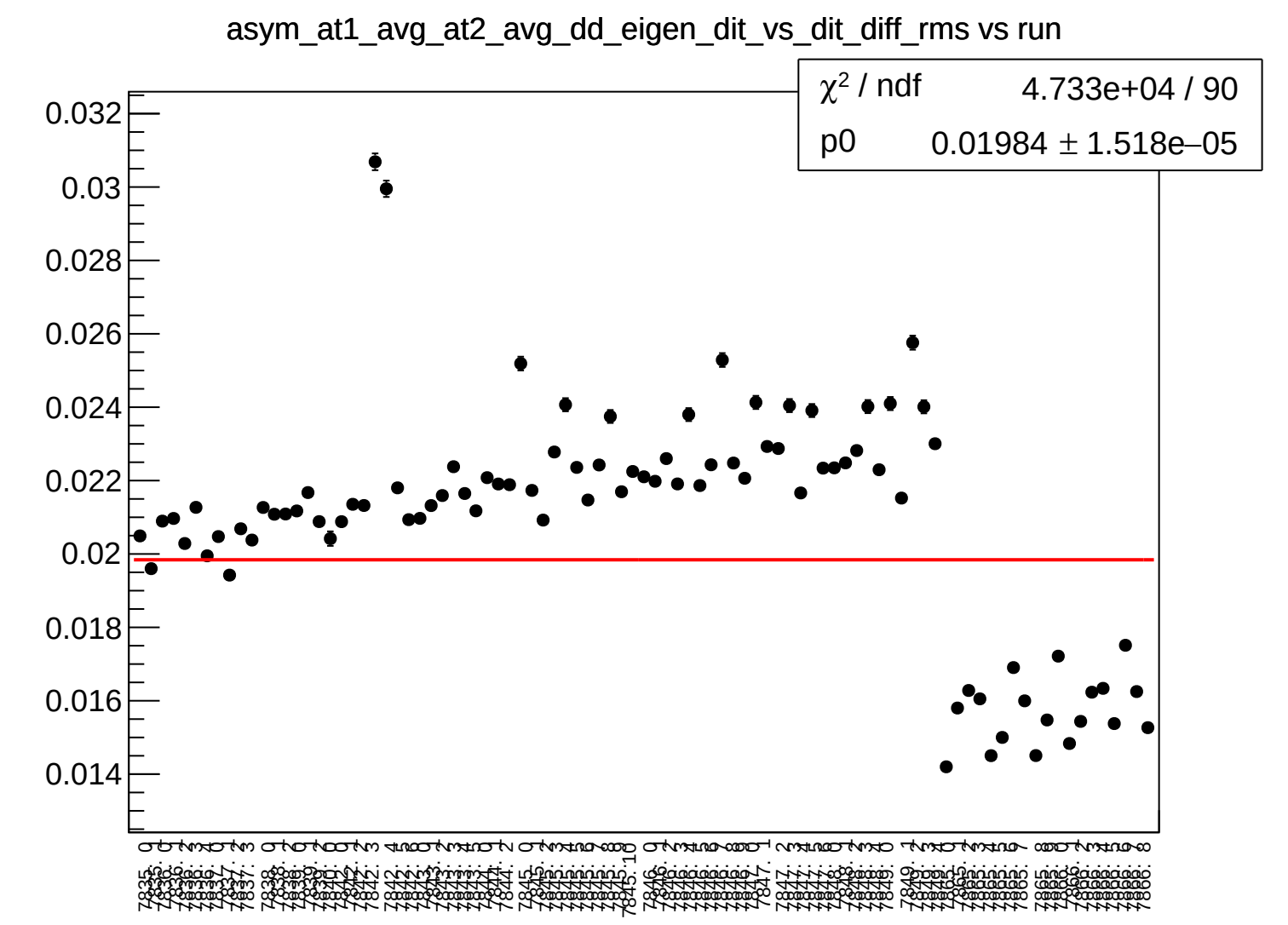

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

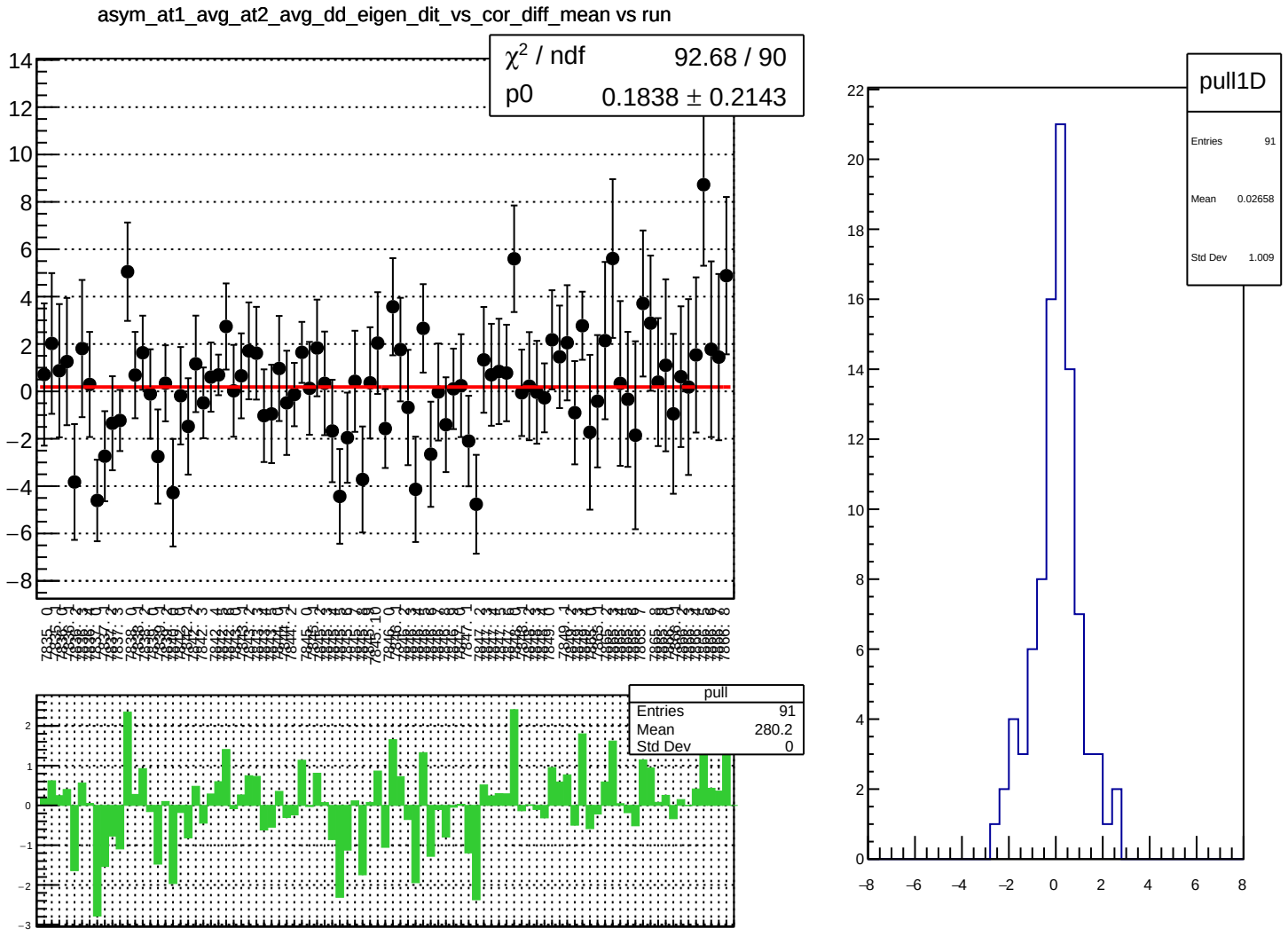

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1837 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02659
Std Dev 1.009

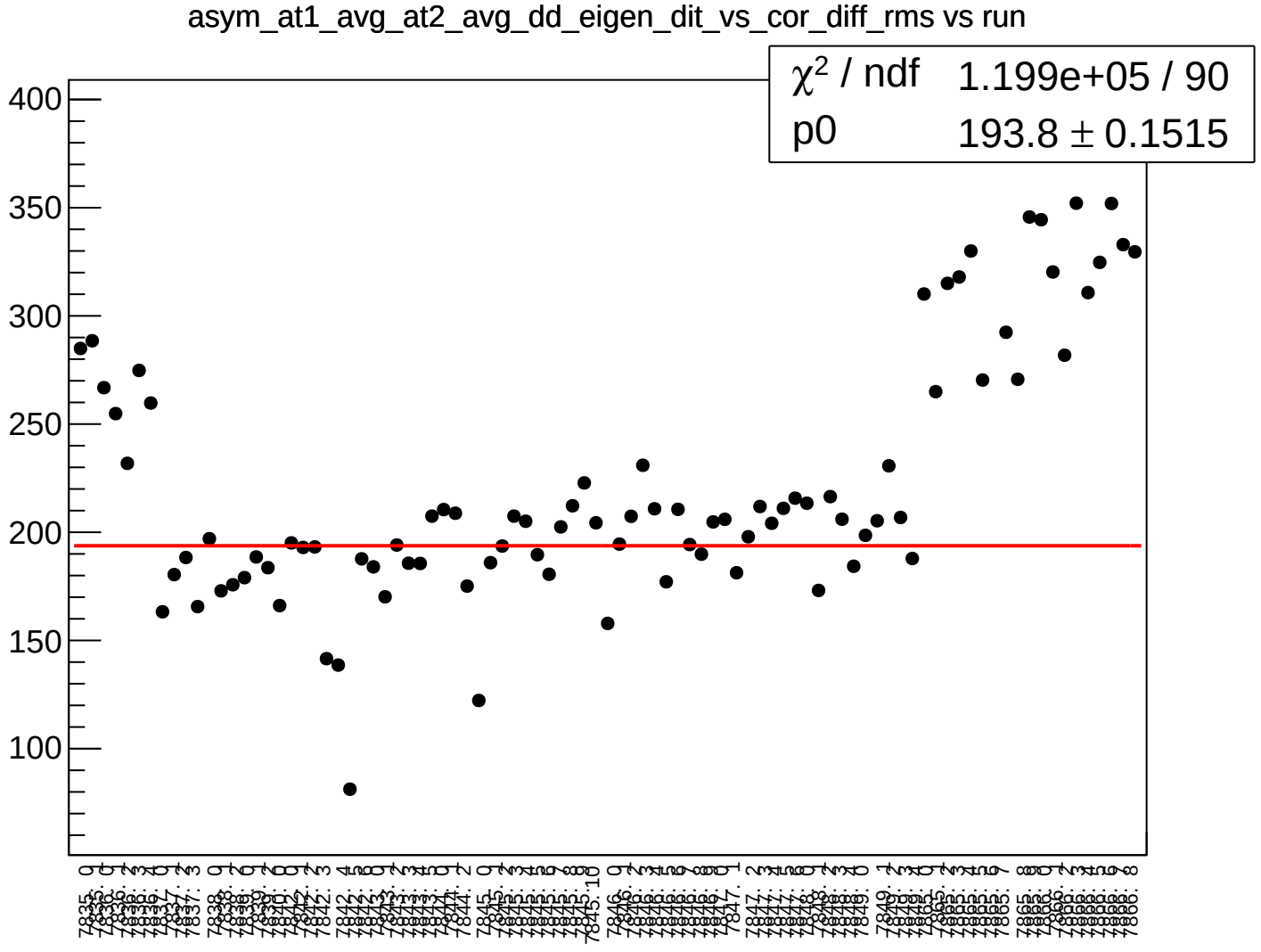

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

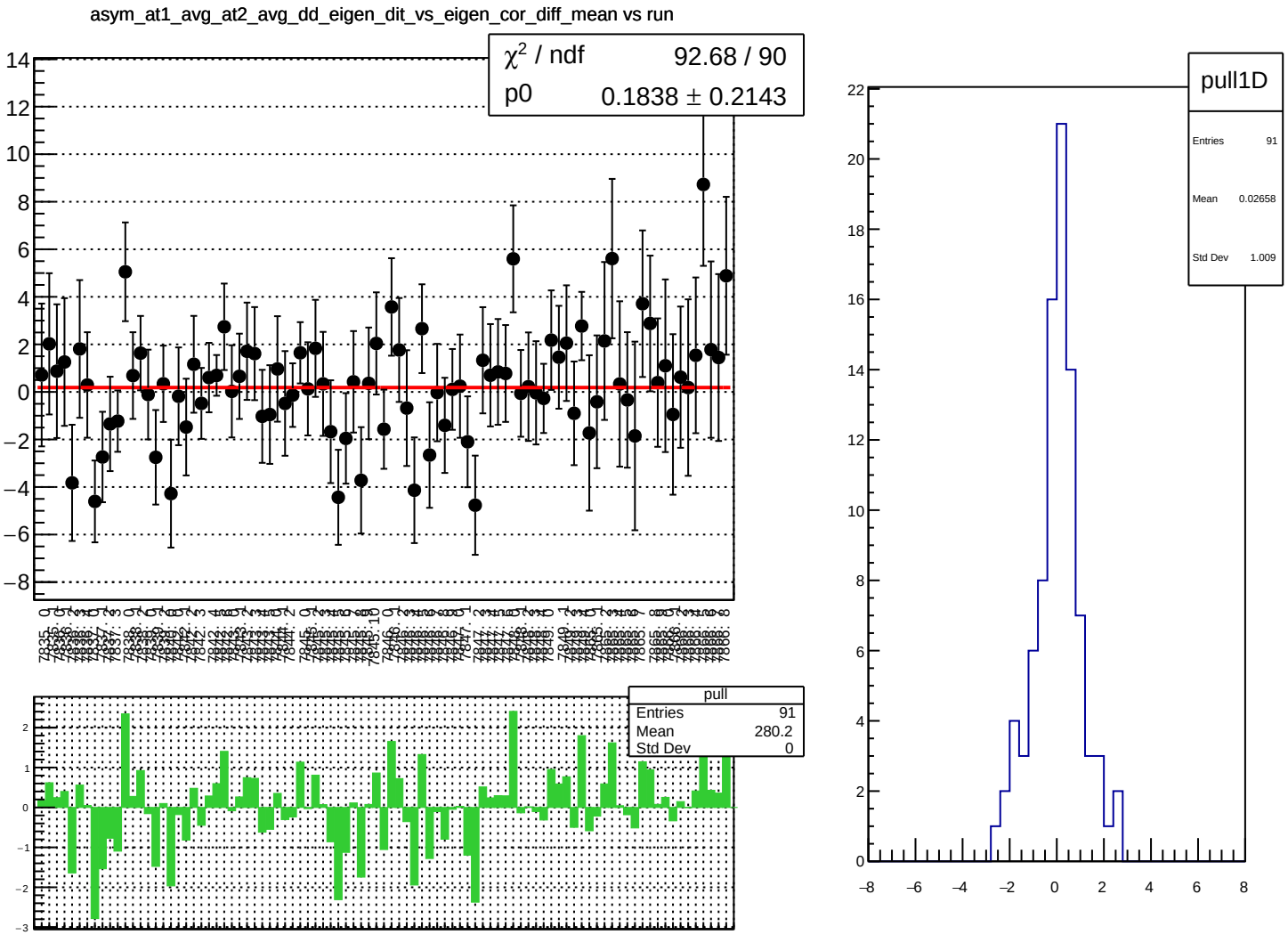

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.83 / 90
p0 3.404e−05 ± 2.147e−05
pull
Entries 91
Mean 13.56
Std Dev 0

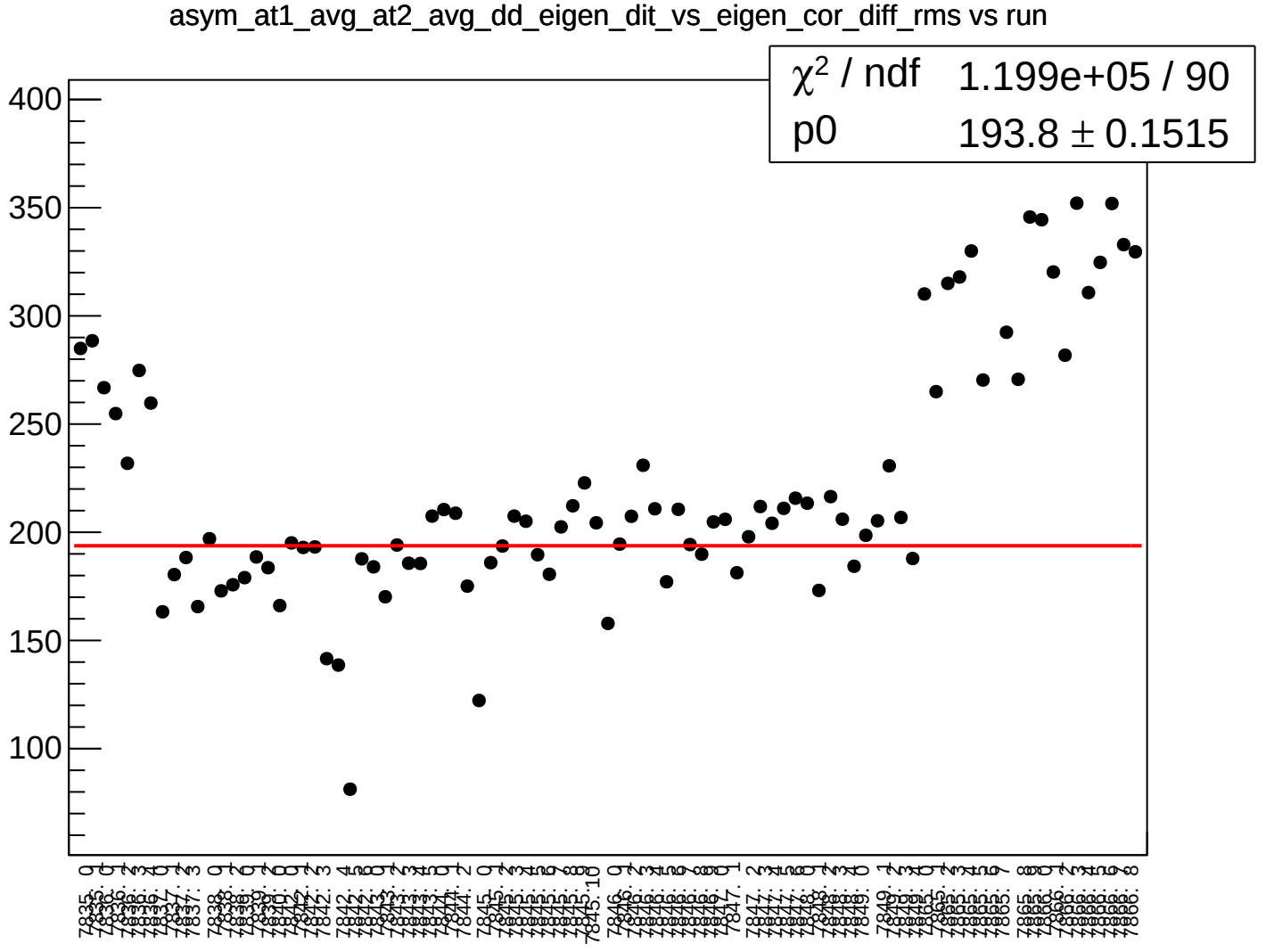

pull1D
Entries 91
Mean −0.02148
Std Dev 1.042

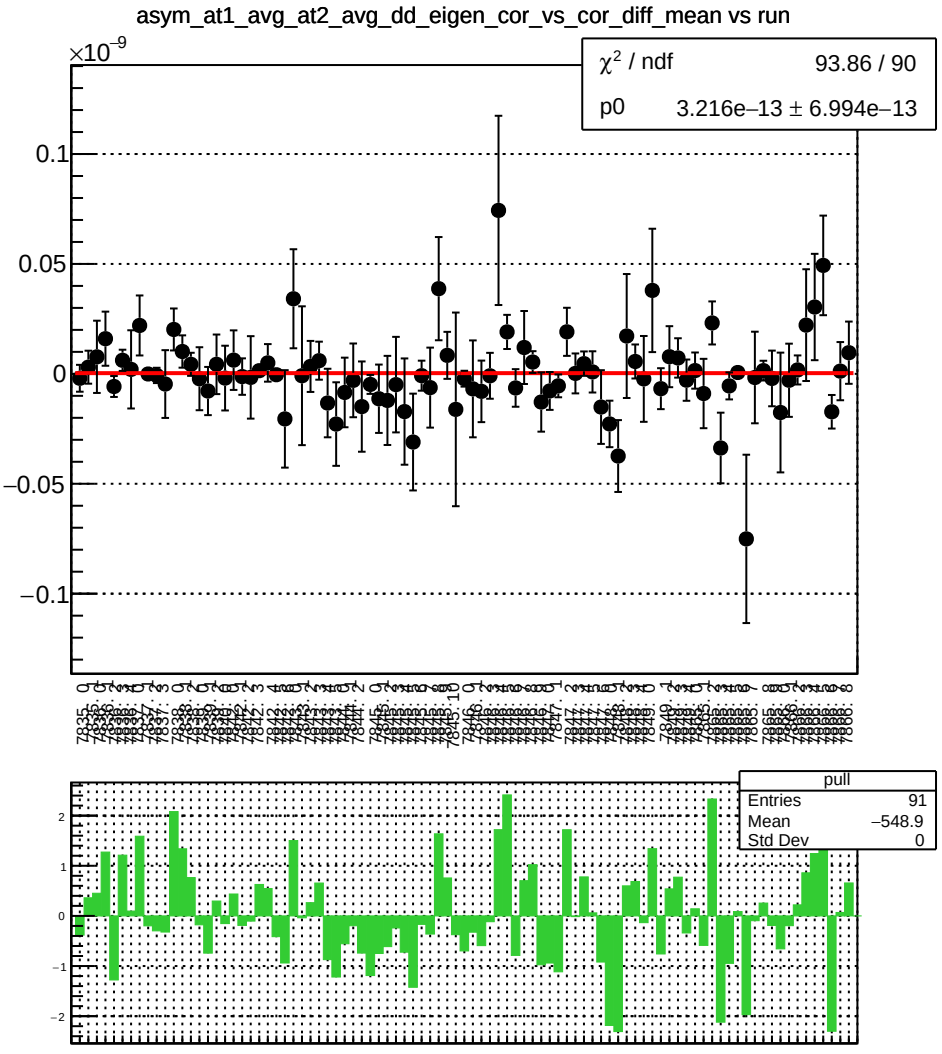

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.733e+04 / 90
p0 0.01984 ± 1.518e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

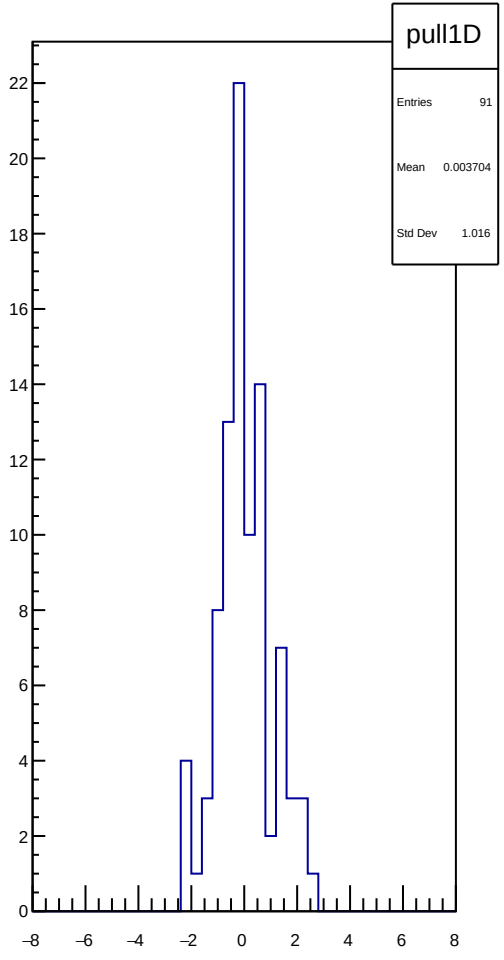

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1838 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02658
Std Dev 1.009

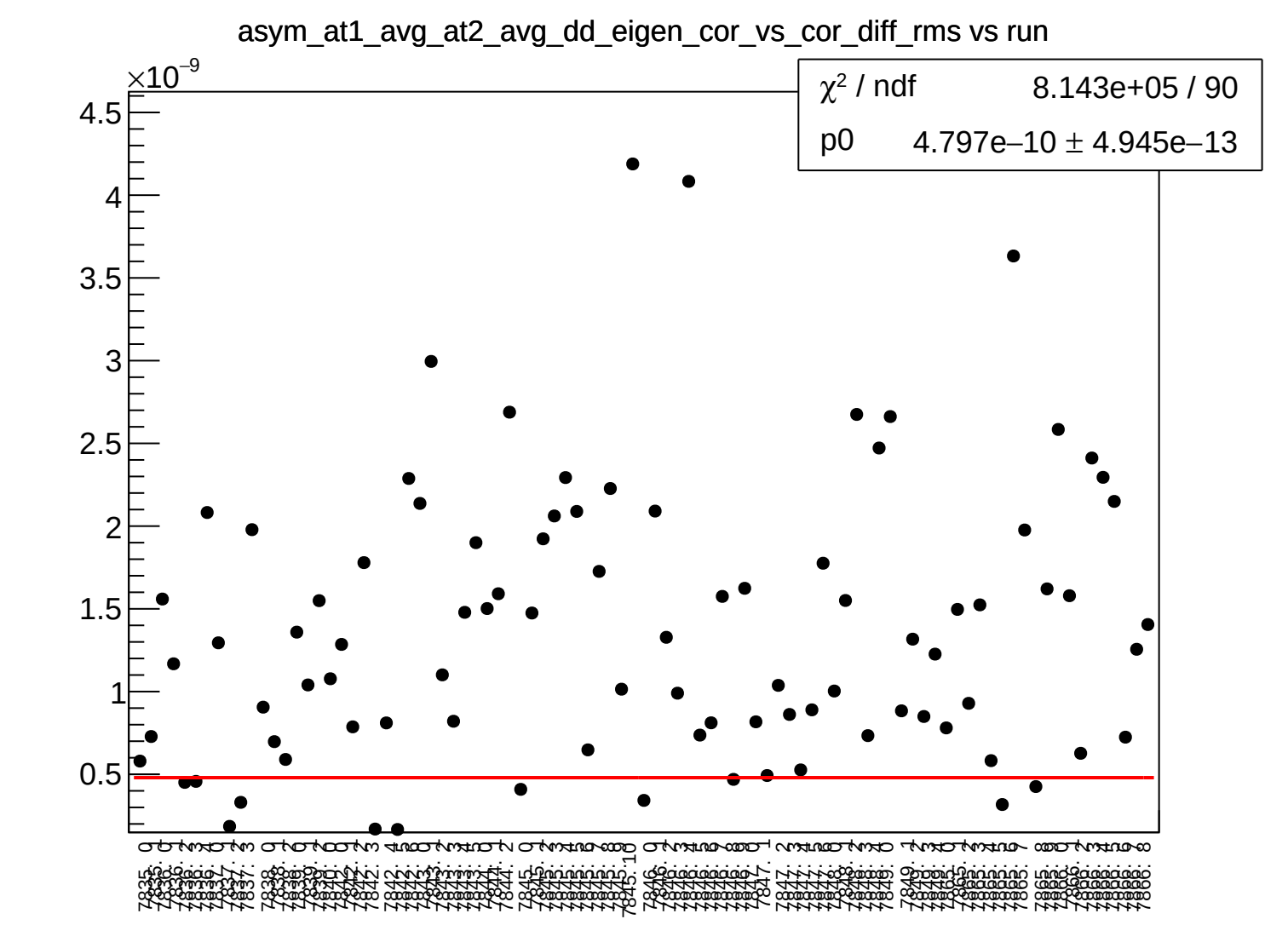

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.199e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

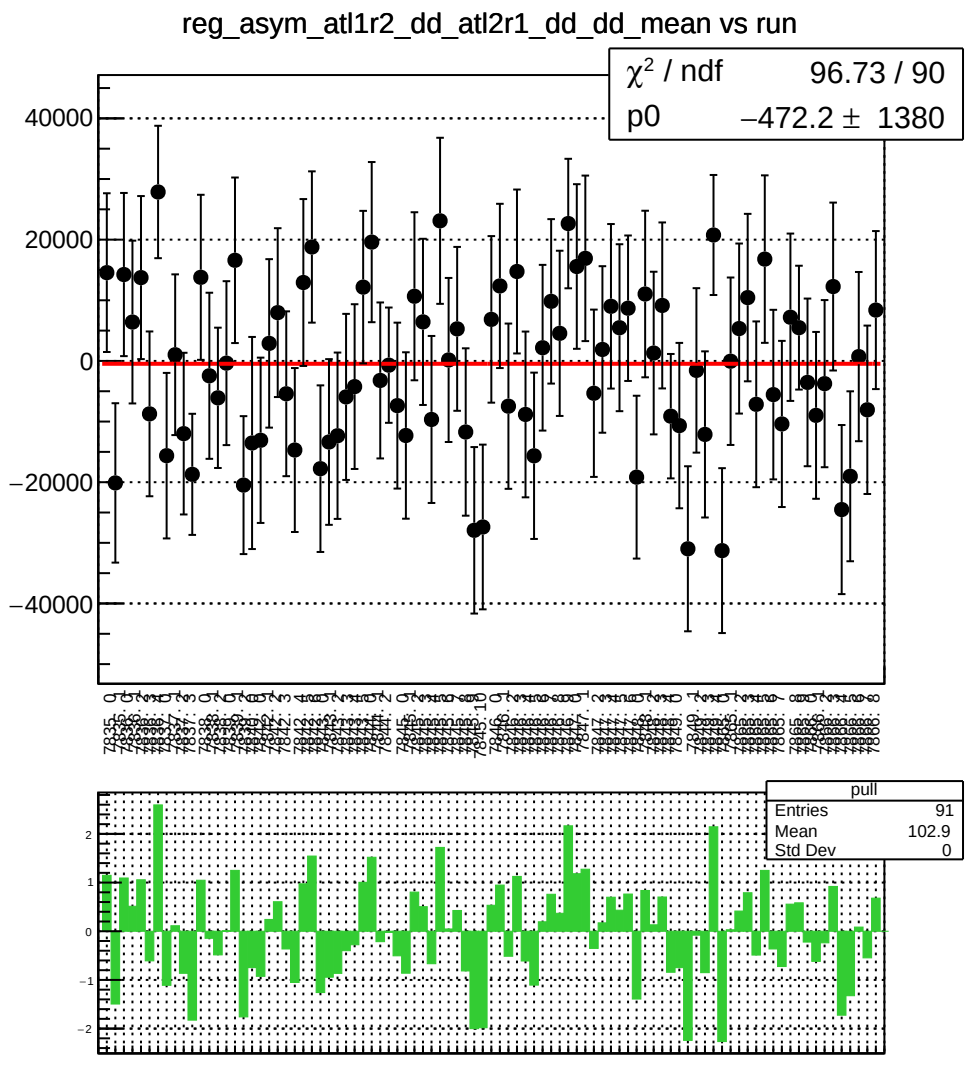

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1838 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02658
Std Dev 1.009

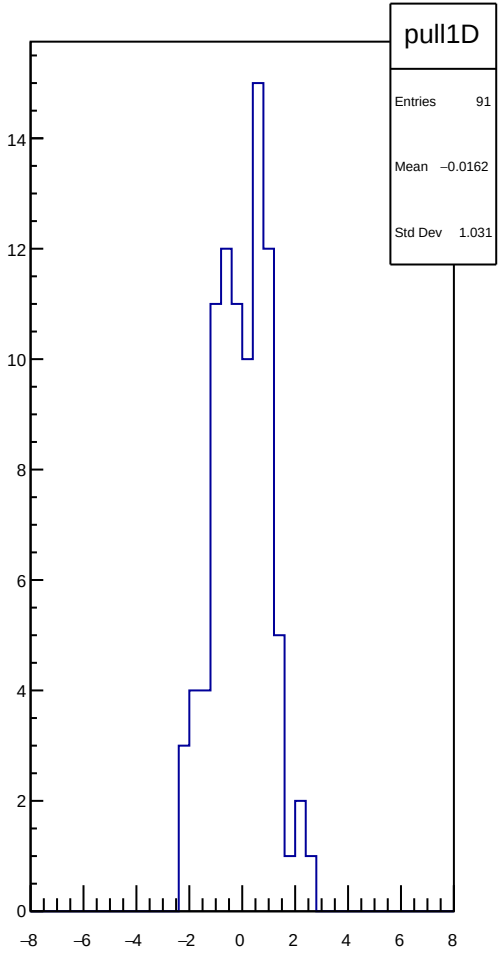

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.199e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

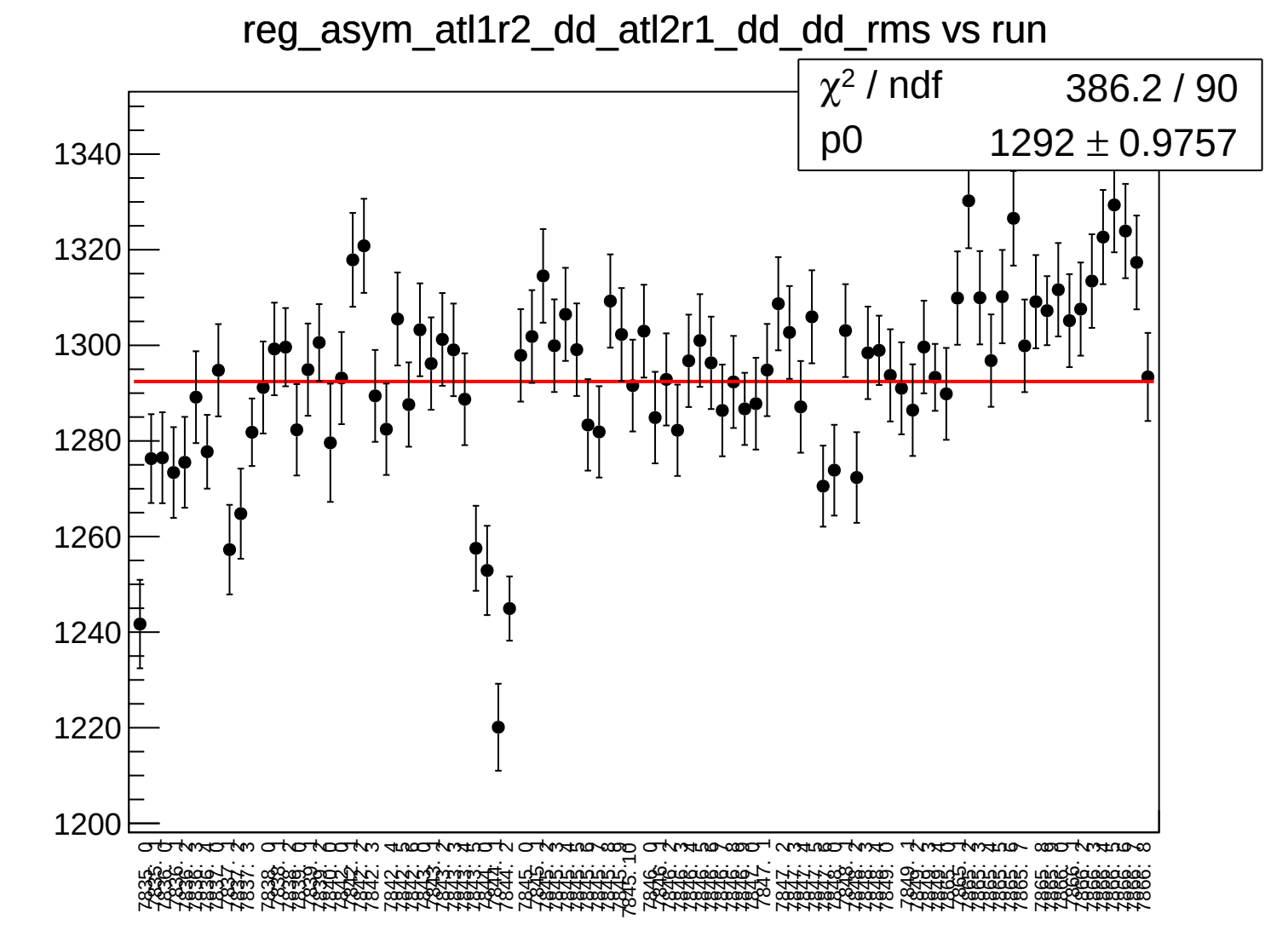

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 93.86 / 90
p0 3.216e−13 ± 6.994e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −548.9
Std Dev 0
2
1
0
−1
−2

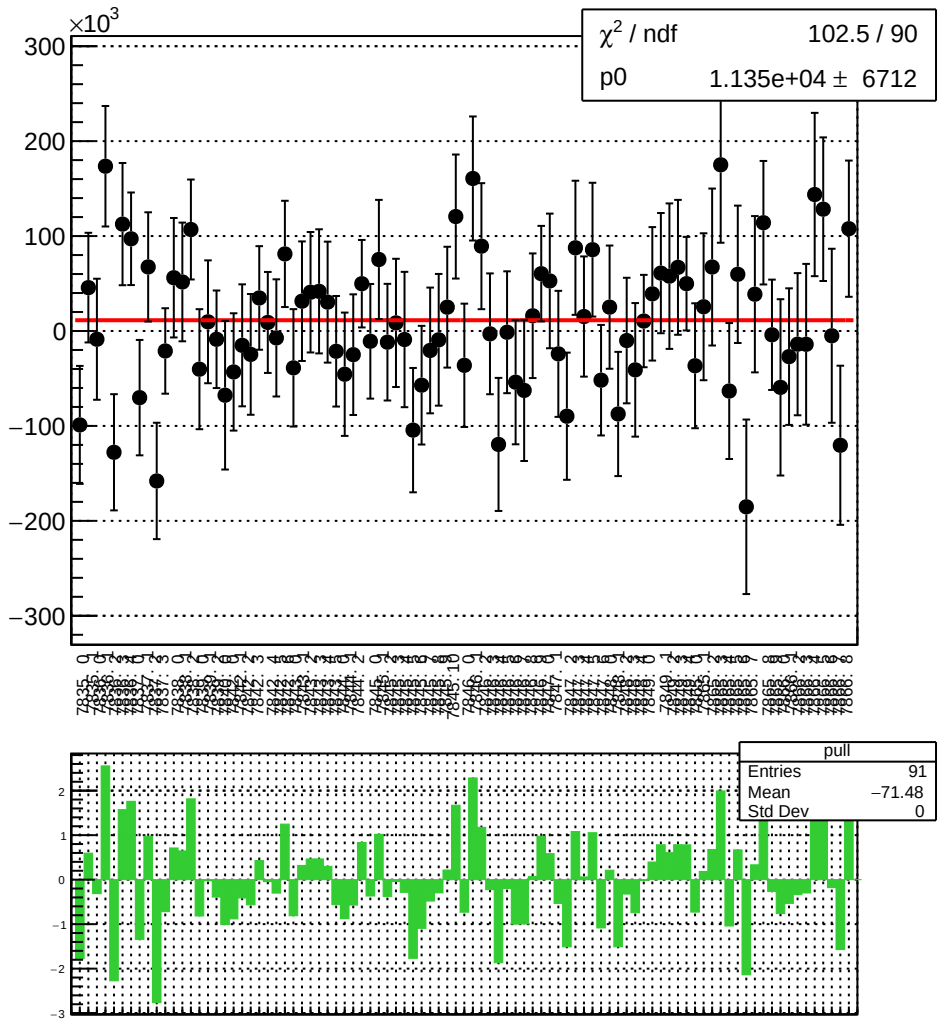

pull1D
Entries 91
Mean 0.003704
Std Dev 1.016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

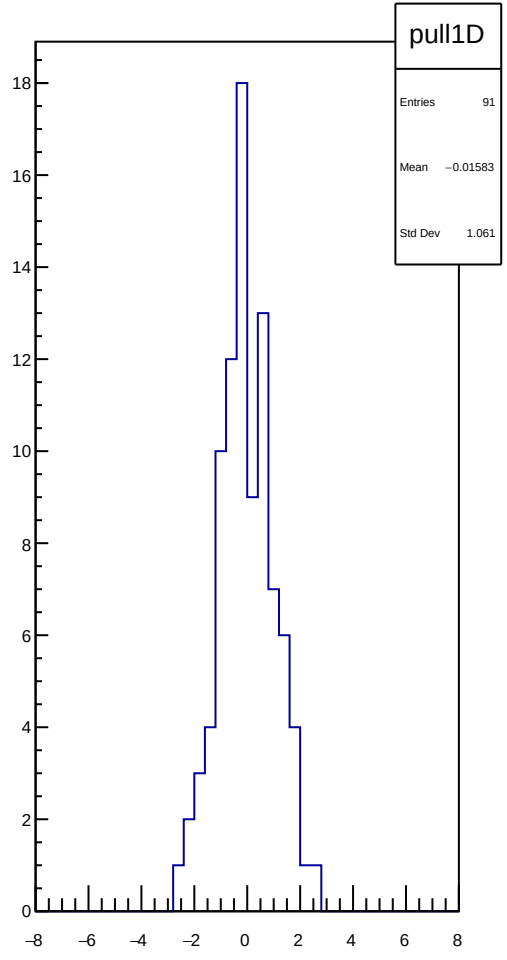

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.143e+05 / 90
p0 4.797e−10 ± 4.945e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

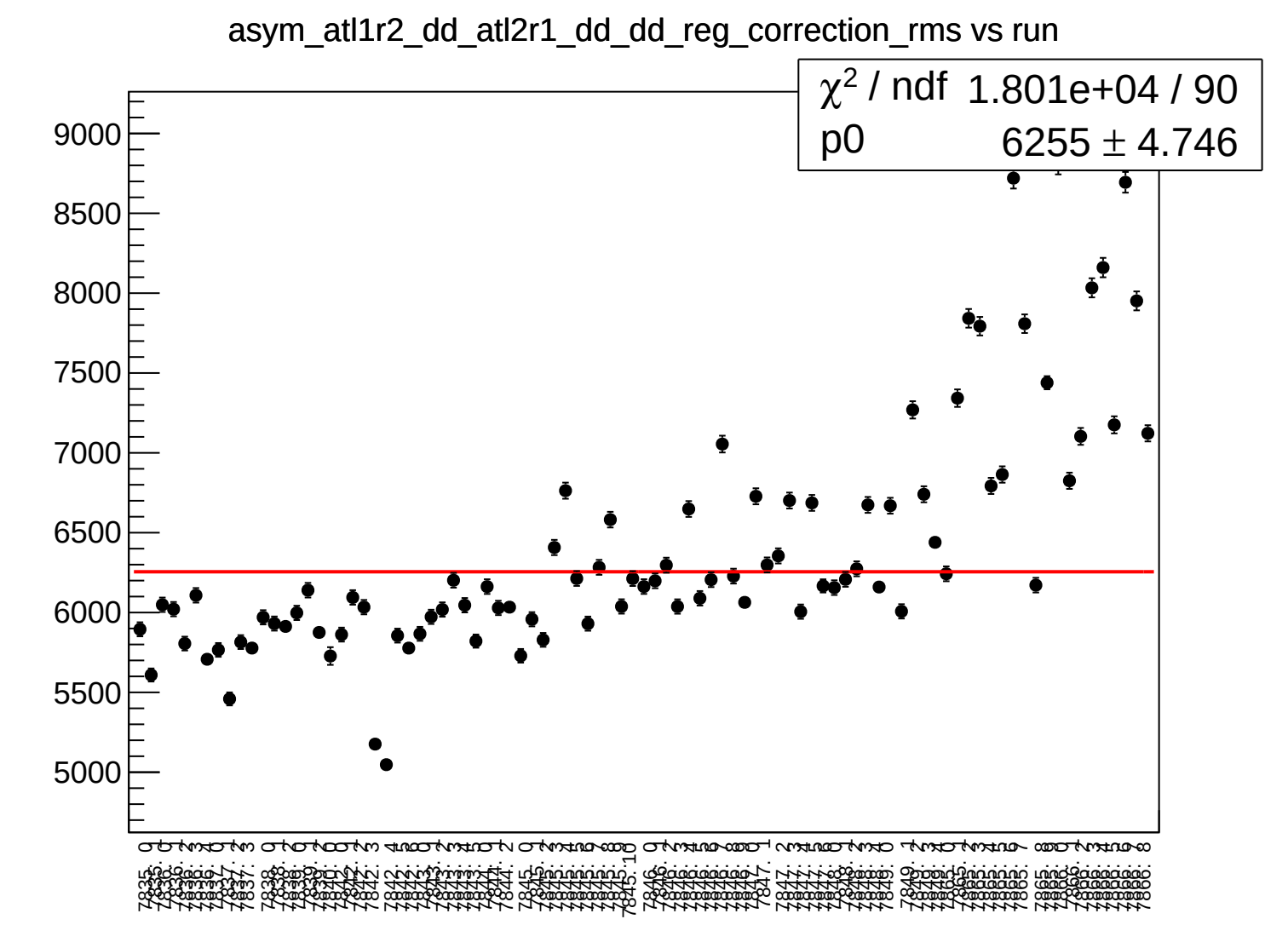

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.73 / 90
p0 −472.2 ± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

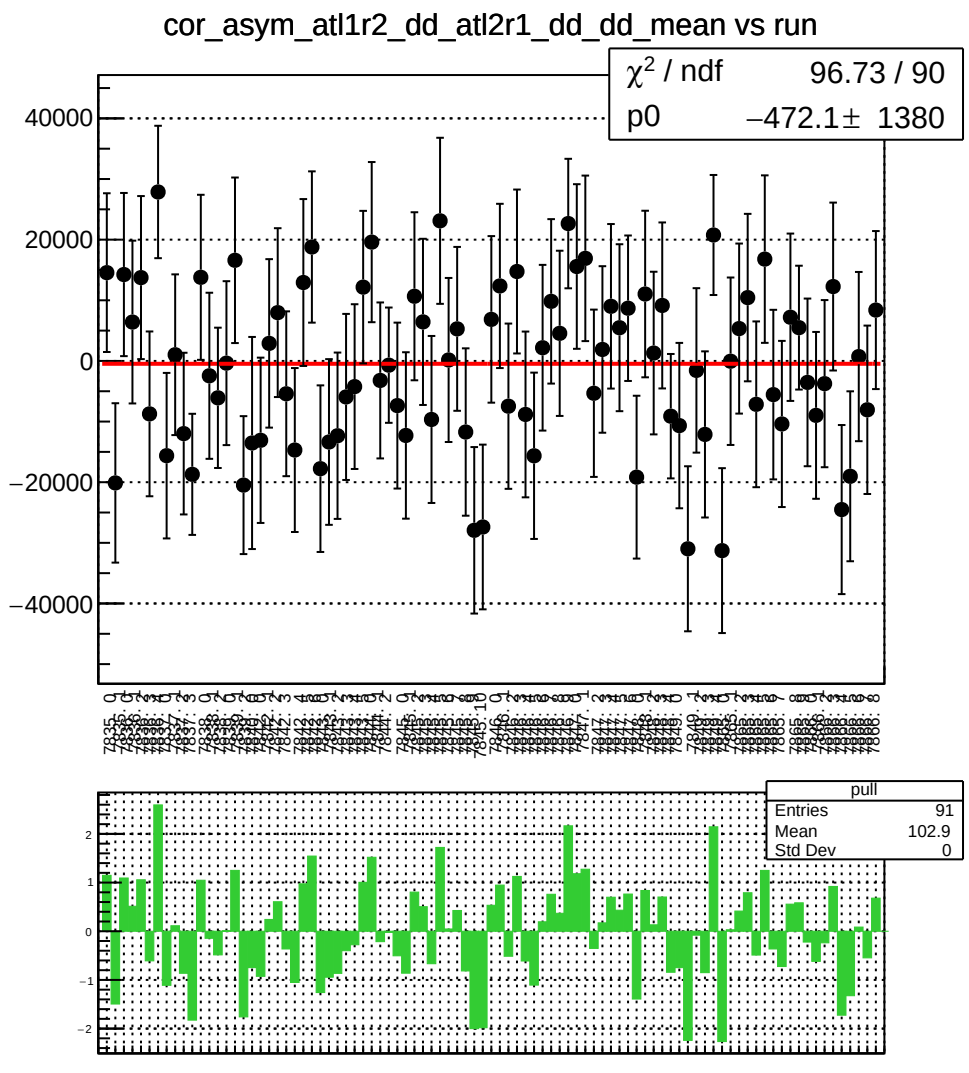

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

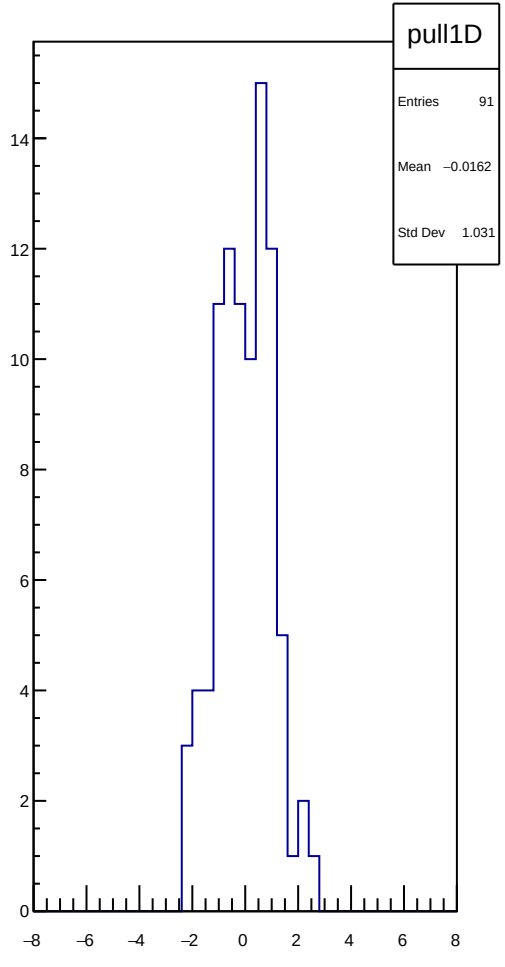

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

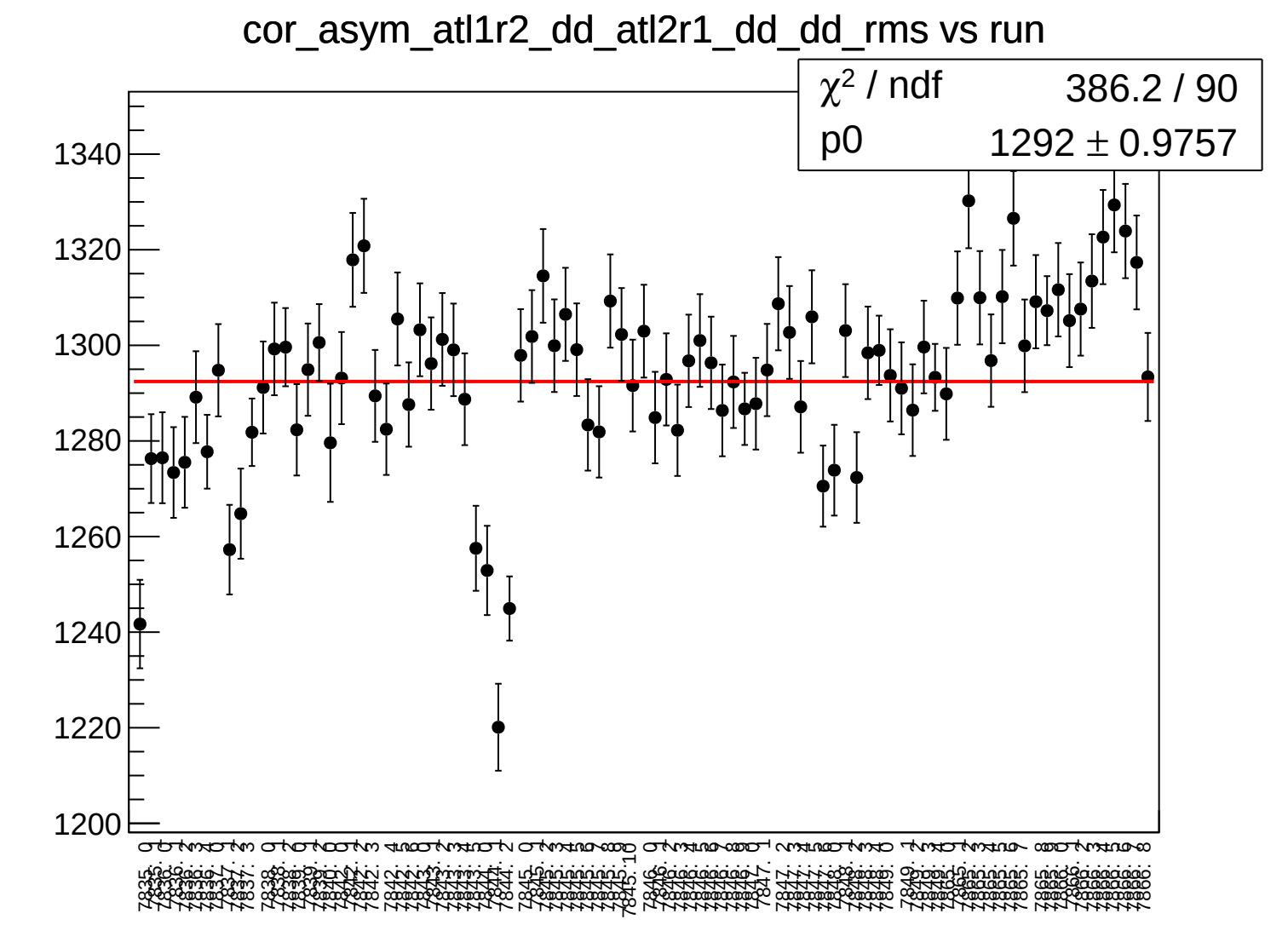

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.48
Std Dev 0

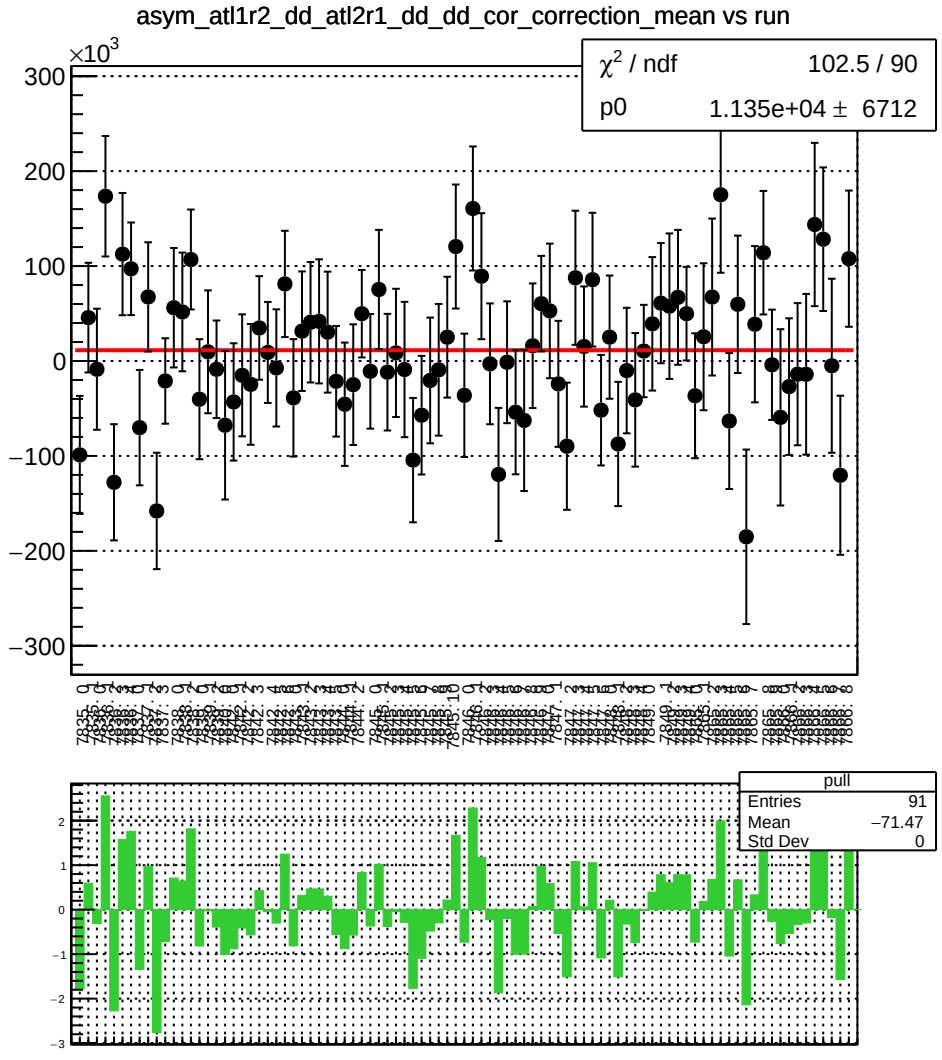

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

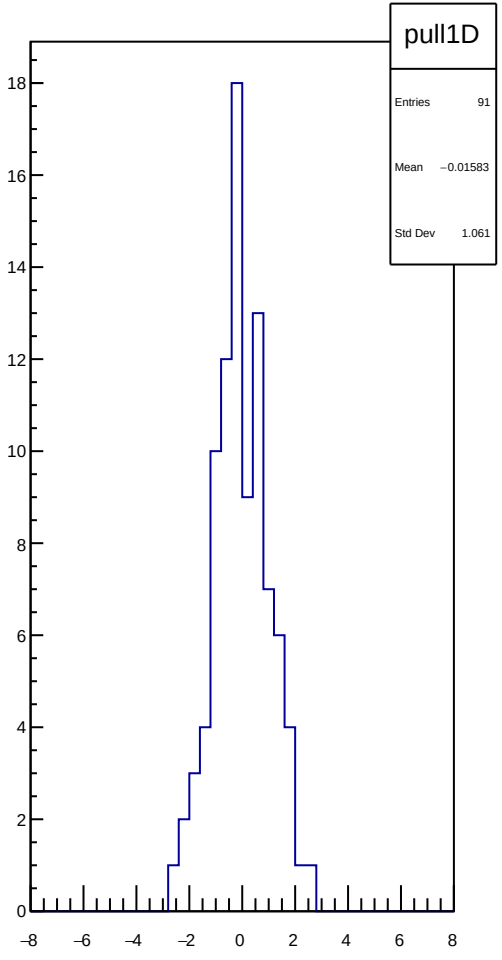

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

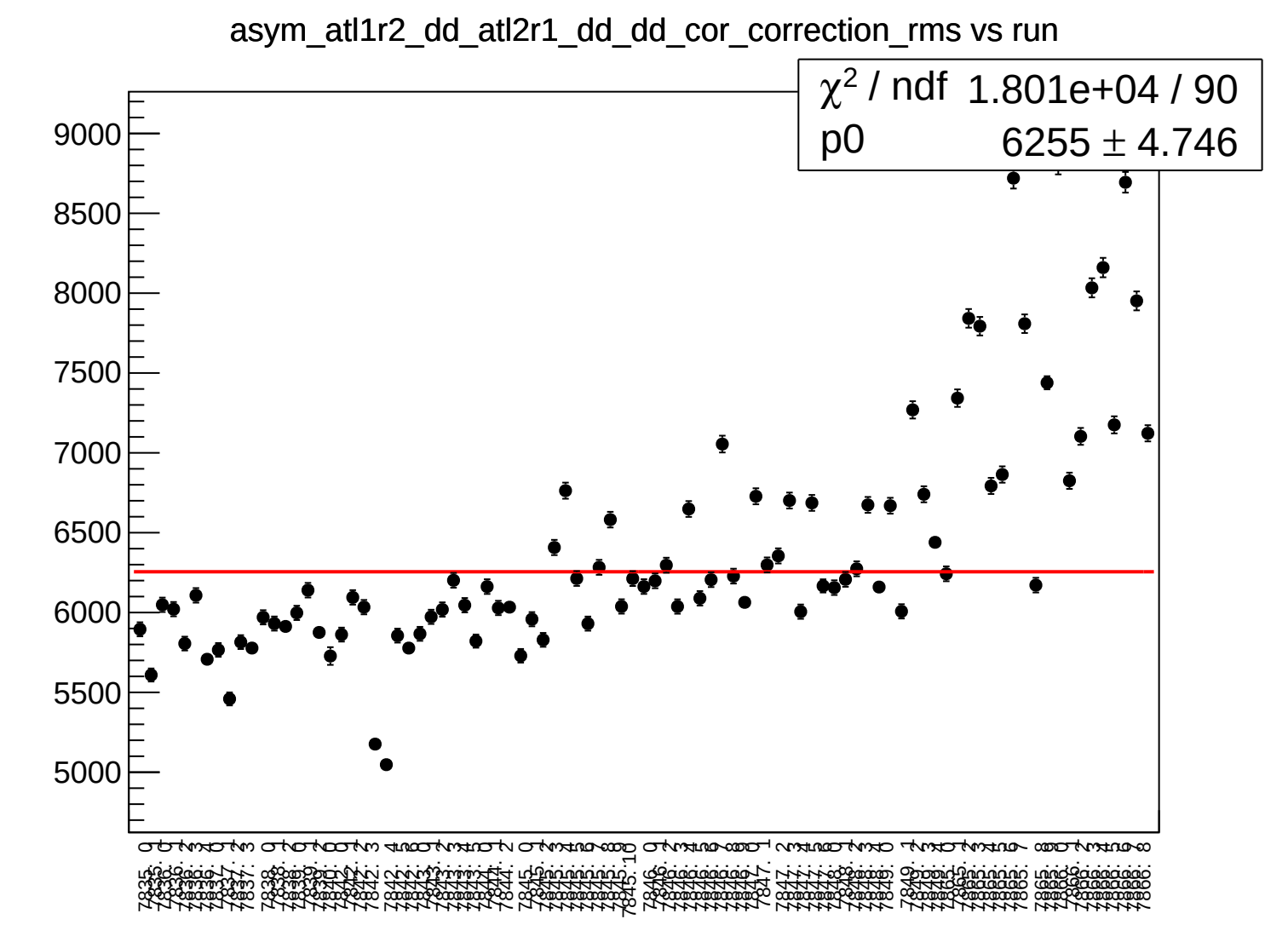

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.73 / 90
p0 −472.1± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

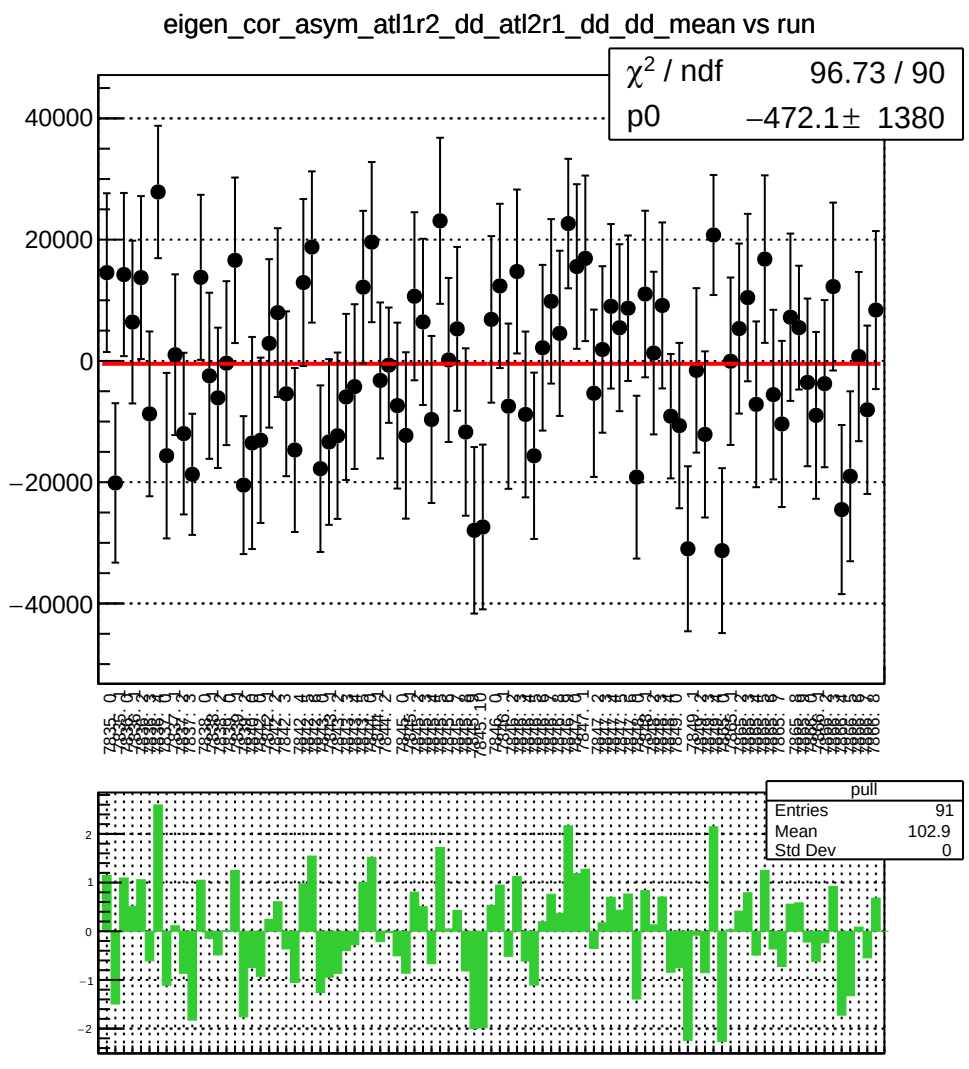

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

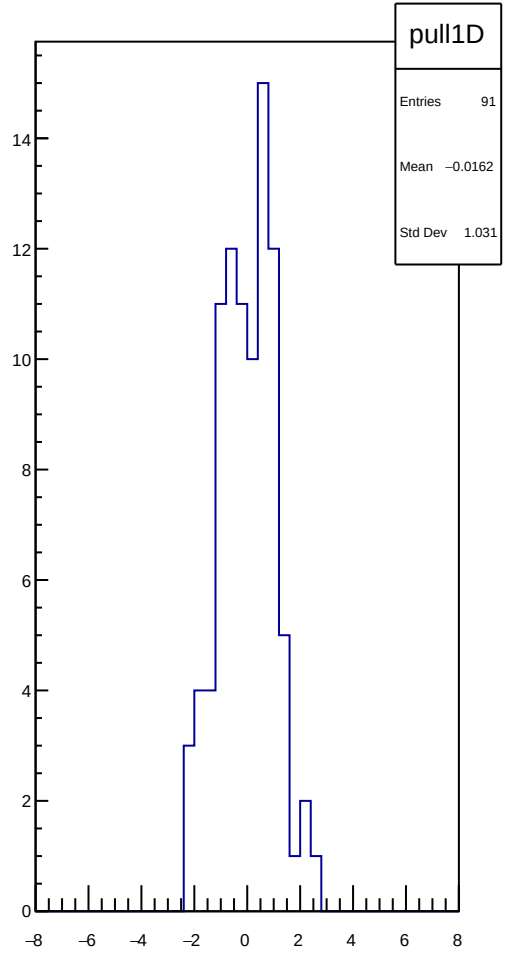

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

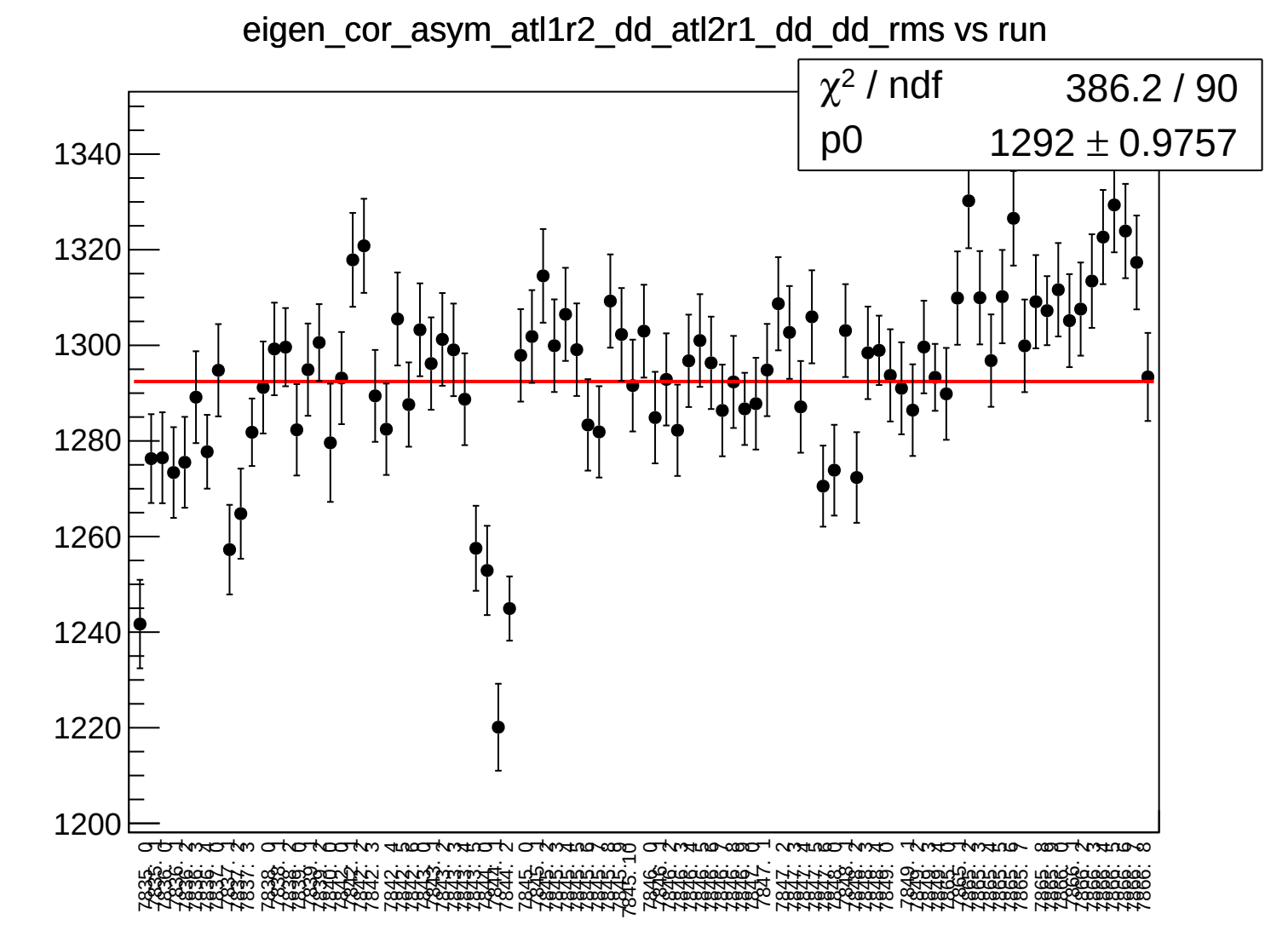

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.47
Std Dev 0

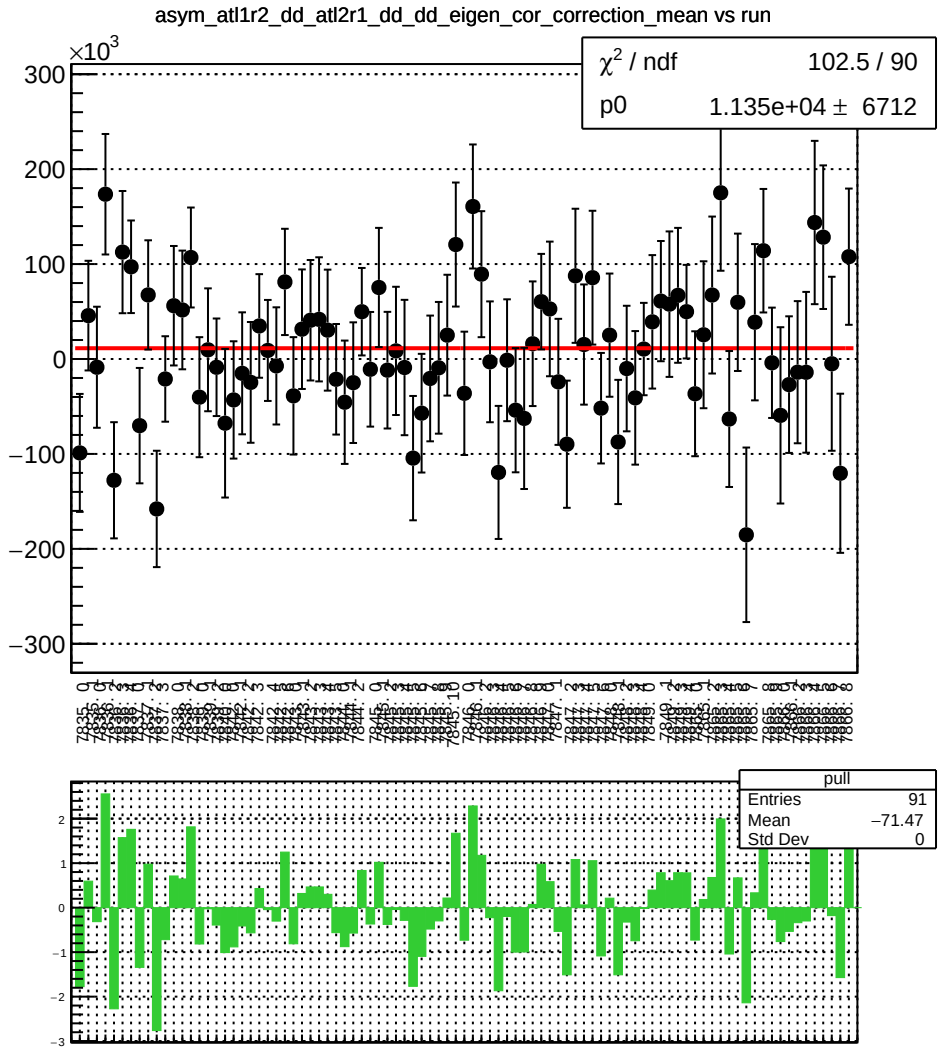

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

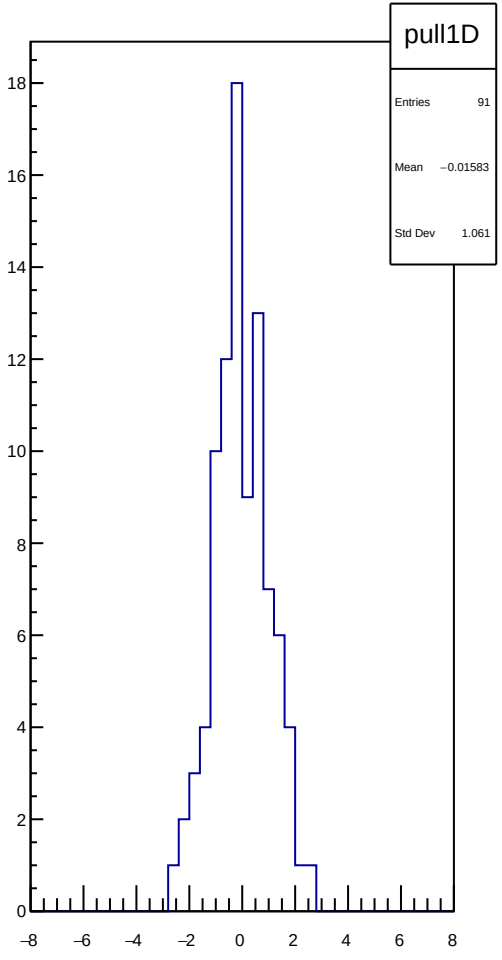

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

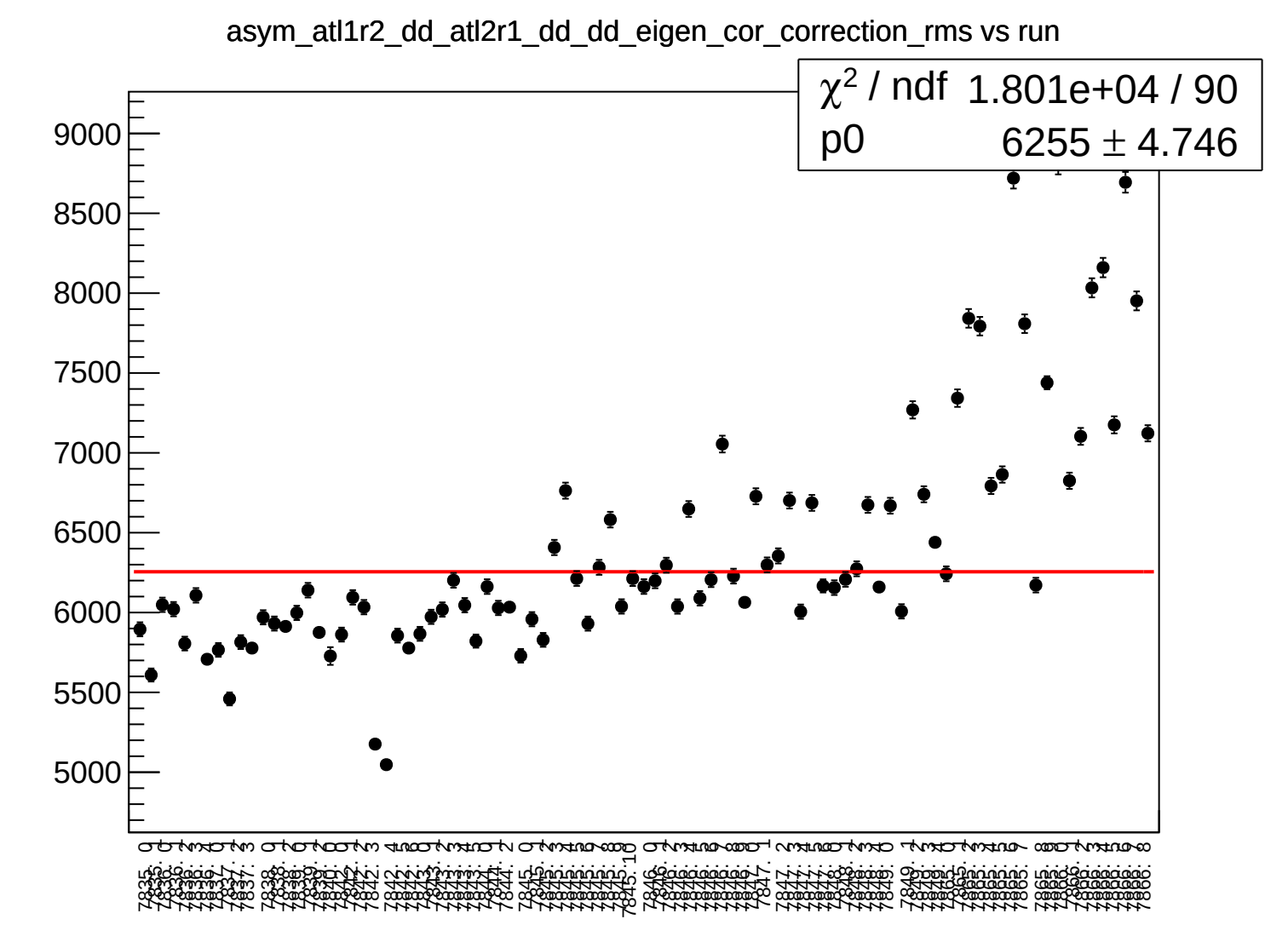

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.73 / 90
p0 −472.1± 1380
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 102.9
Std Dev 0
2
1
0
−1
−2

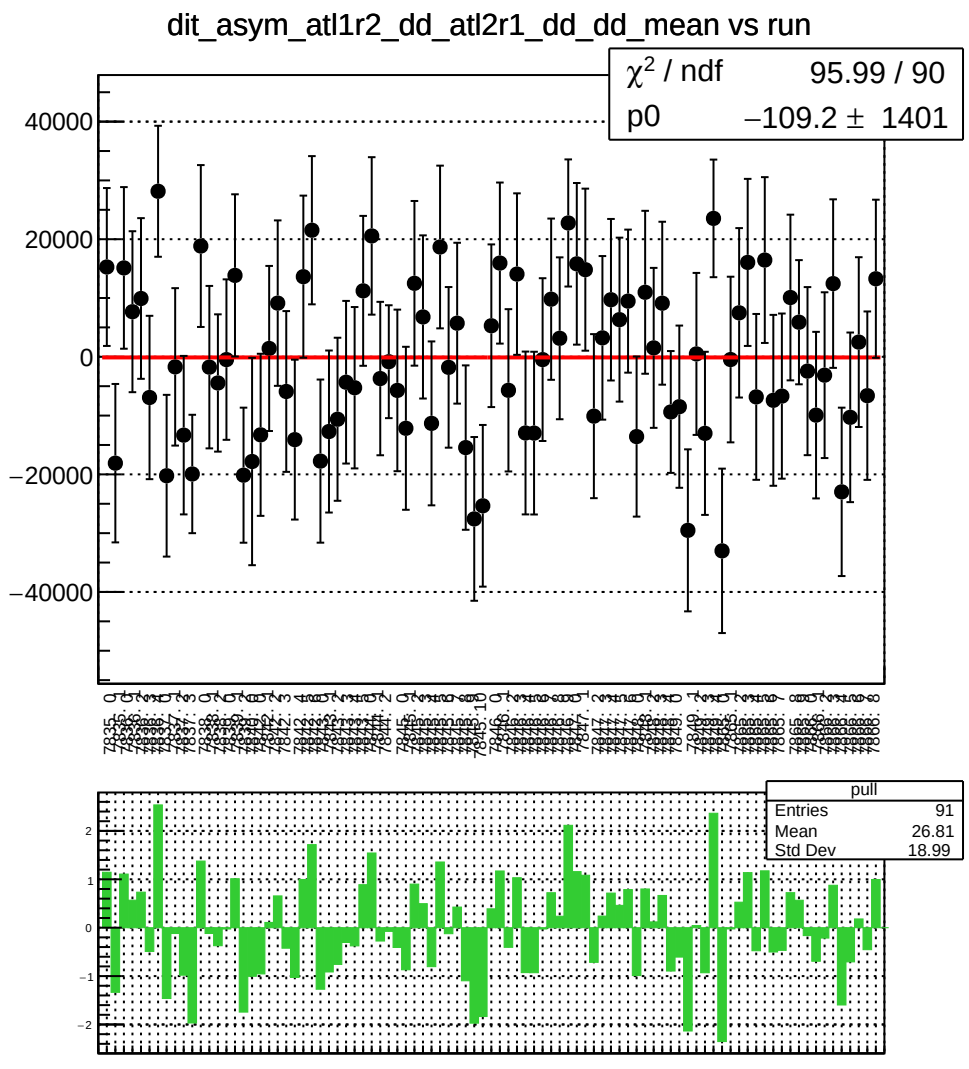

pull1D
Entries 91
Mean −0.0162
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

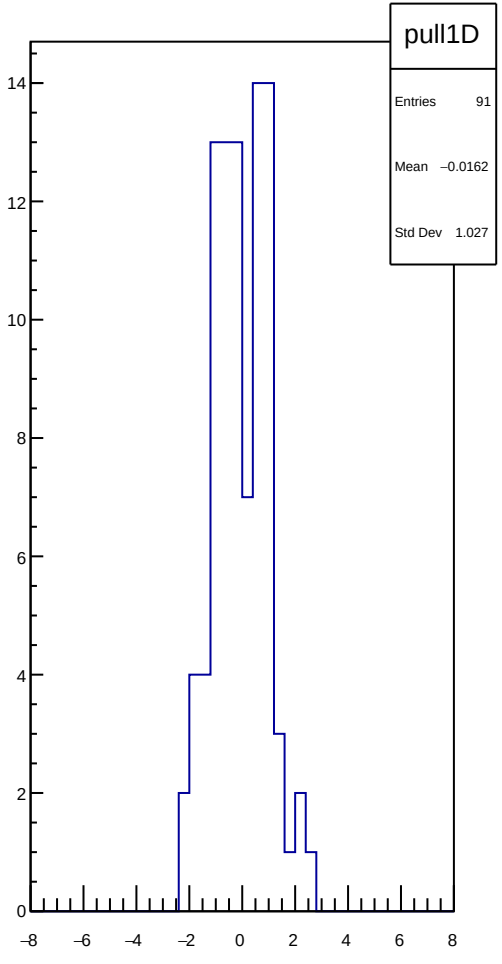

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 386.2 / 90
p0 1292 ± 0.9757
1340
1320
1300
1280
1260
1240
1220
1200

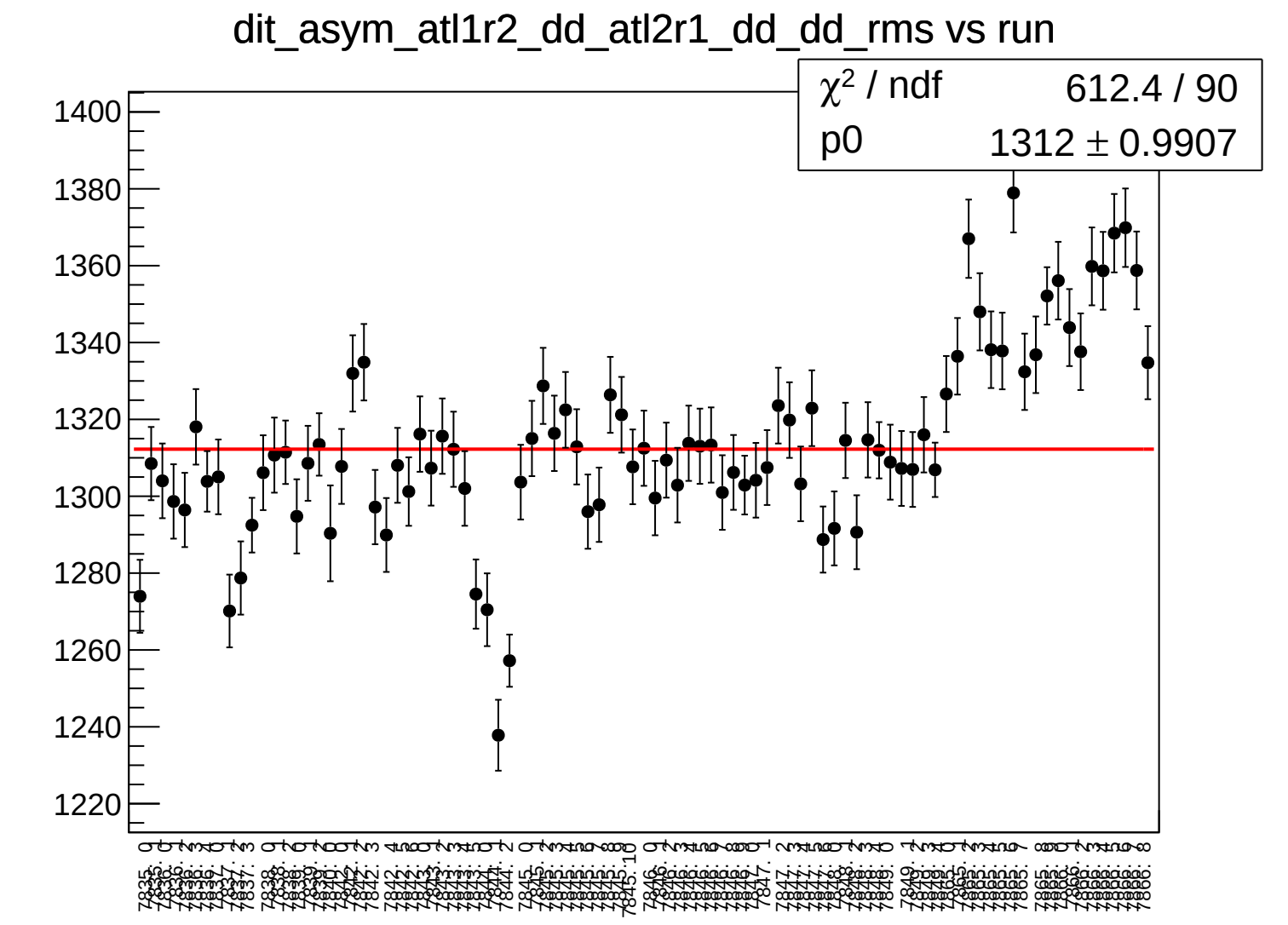

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.5 / 90
p0 1.135e+04 ± 6712
pull
Entries 91
Mean −71.47
Std Dev 0

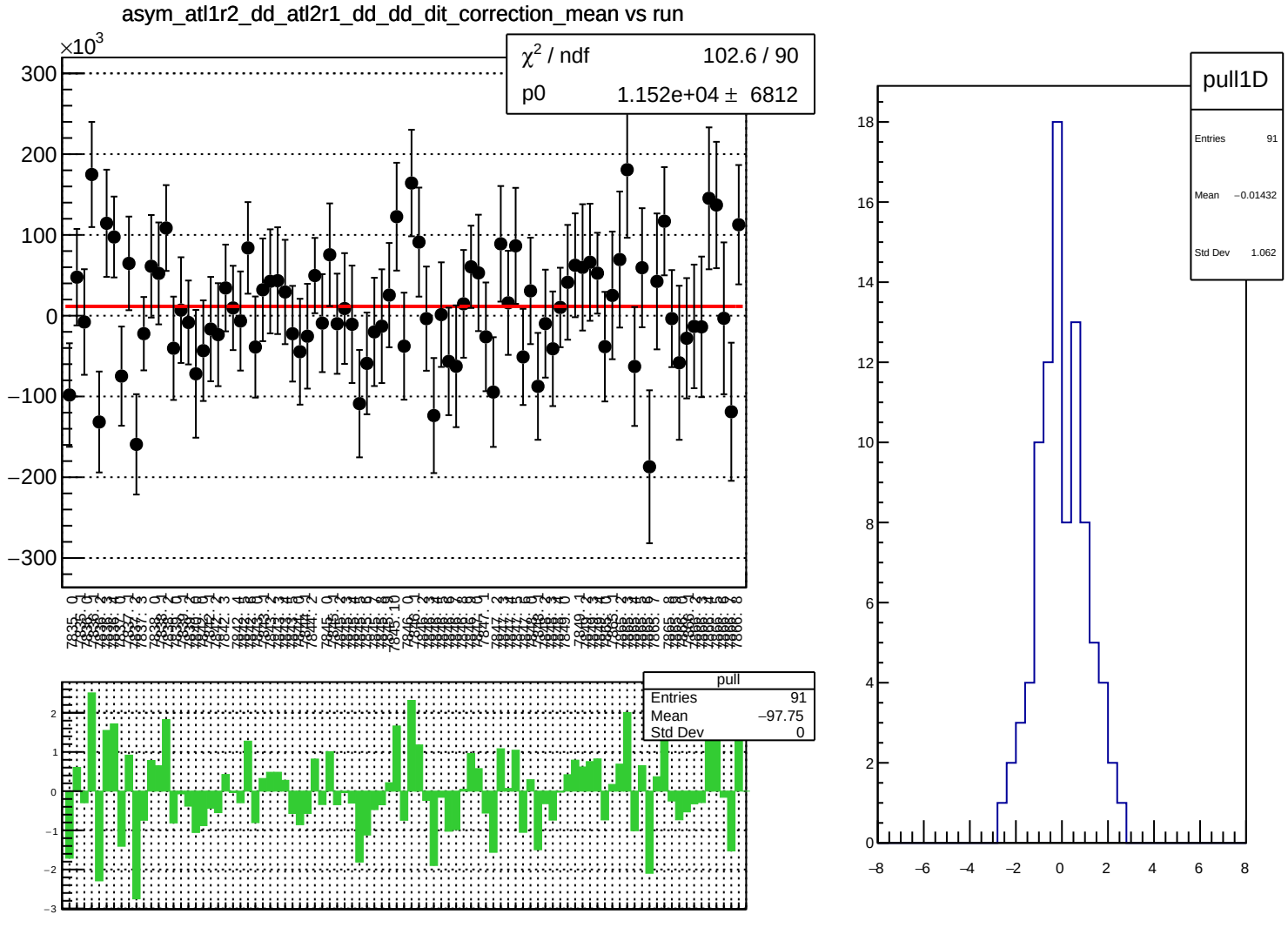

pull1D
Entries 91
Mean −0.01583
Std Dev 1.061

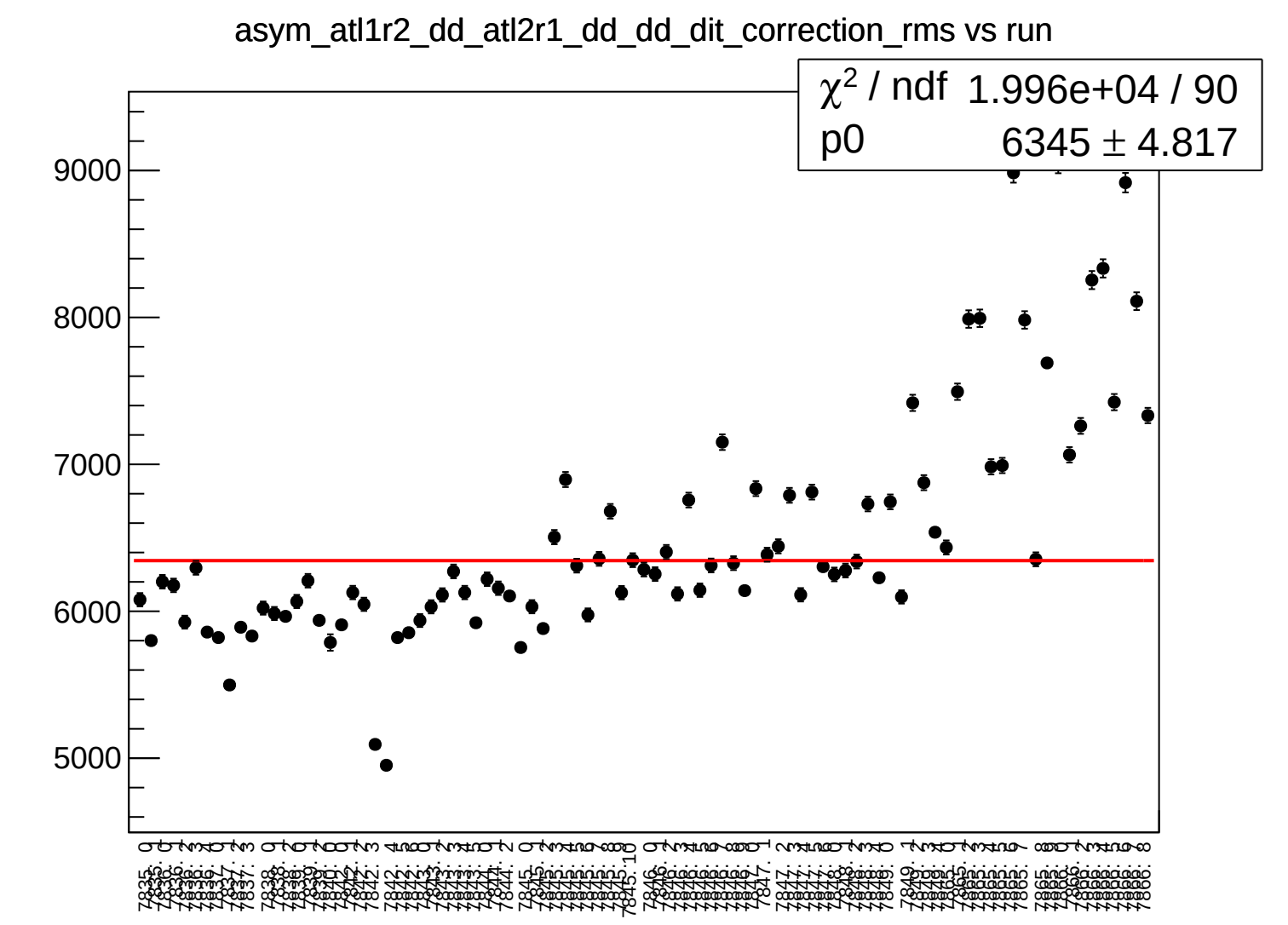

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.801e+04 / 90
p0 6255 ± 4.746
9000
8500
8000
7500
7000
6500
6000
5500
5000

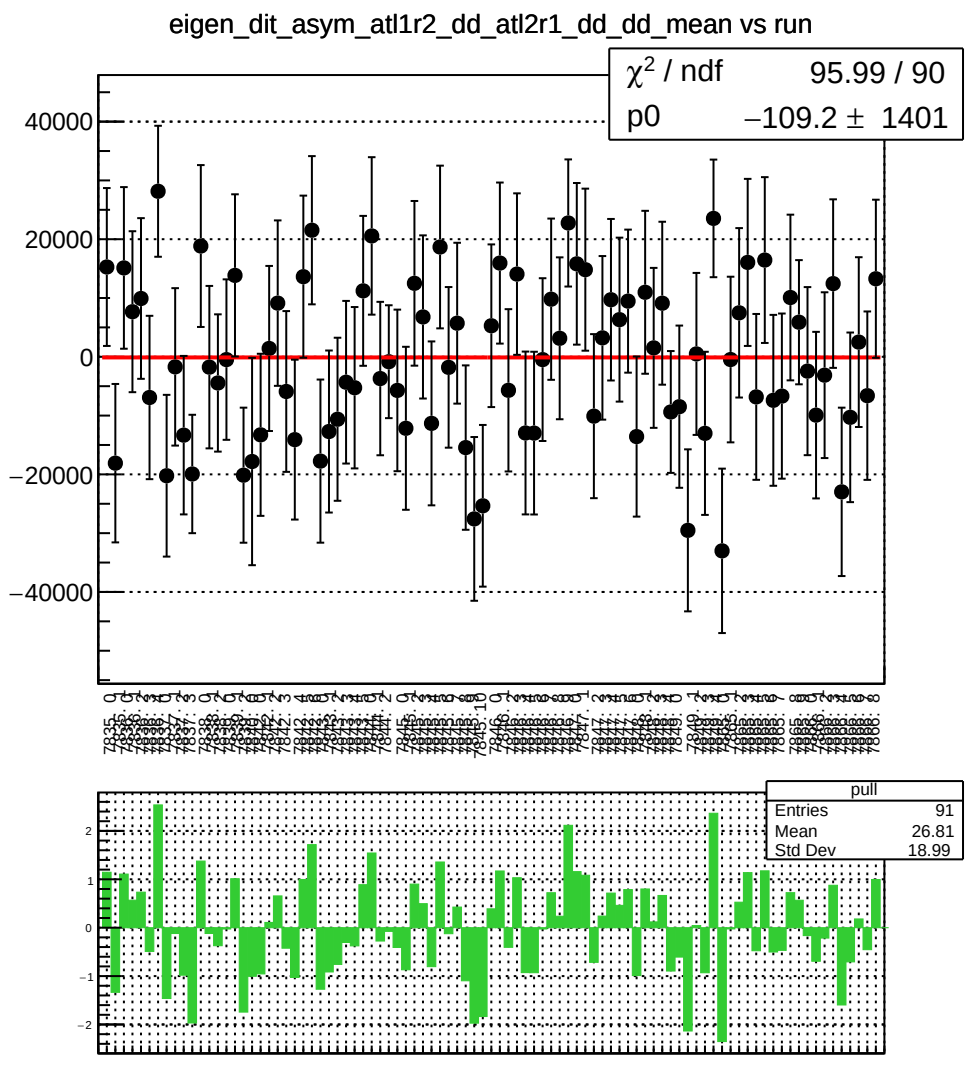

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.99 / 90
p0 −109.2 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 26.81
Std Dev 18.99
2
1
0
−1
−2

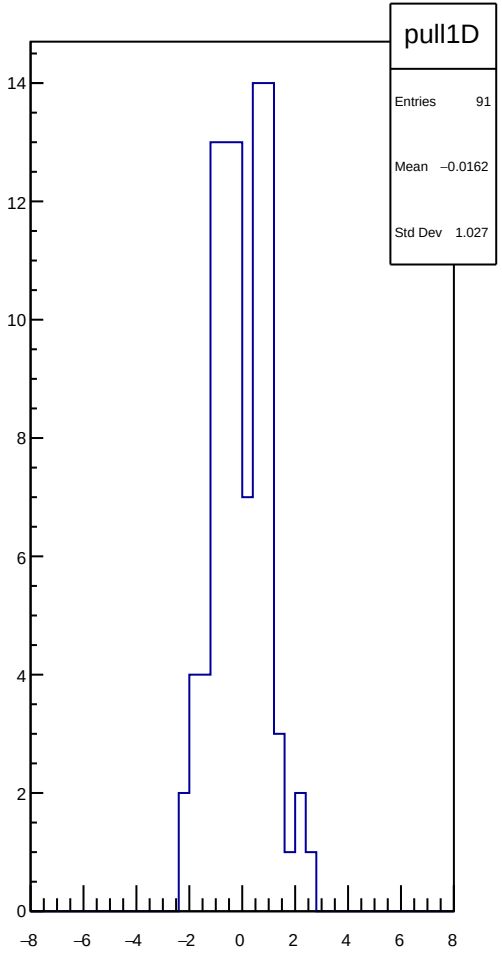

pull1D
Entries 91
Mean −0.0162
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

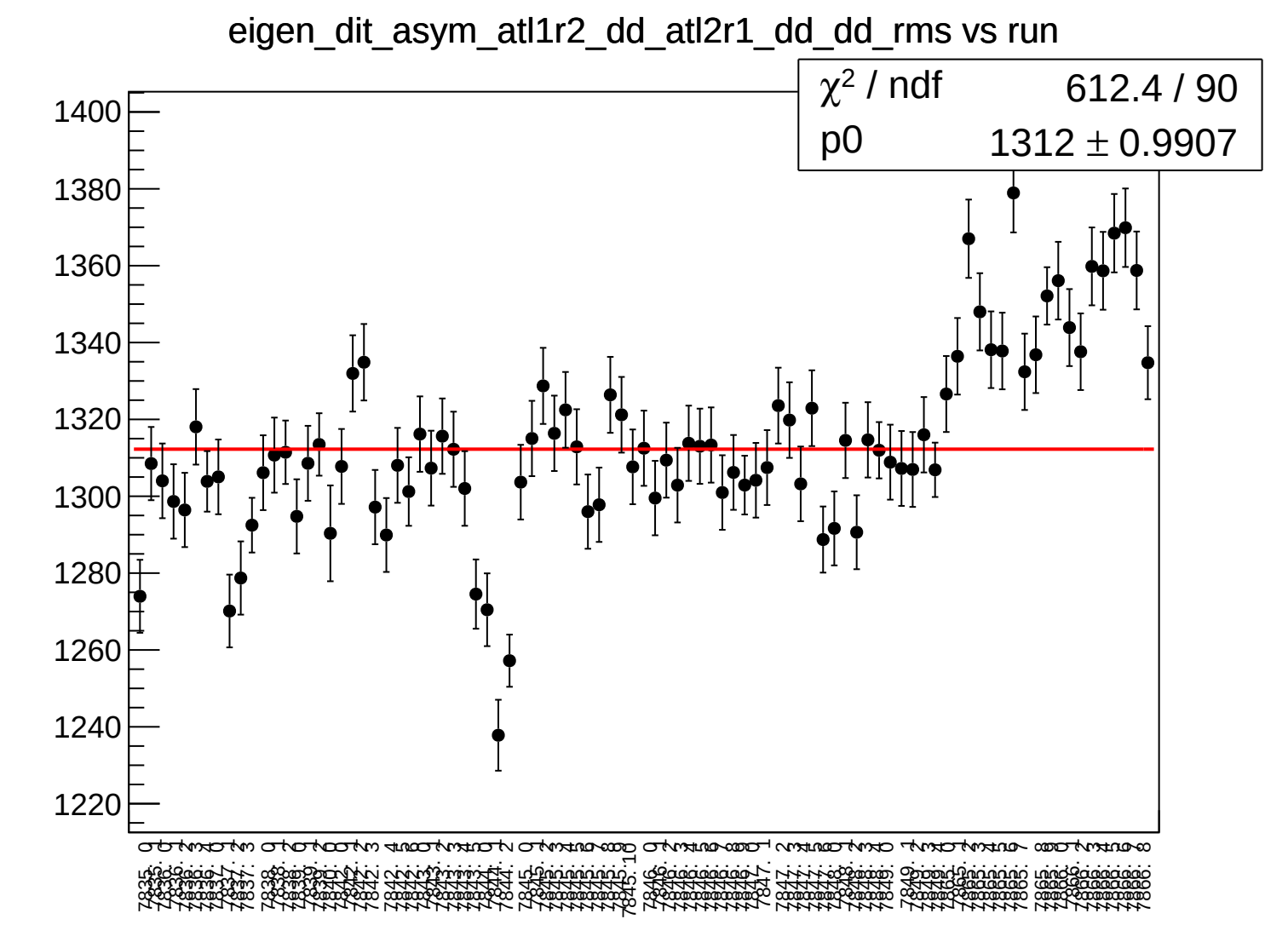

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 612.4 / 90
p0 1312 ± 0.9907
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

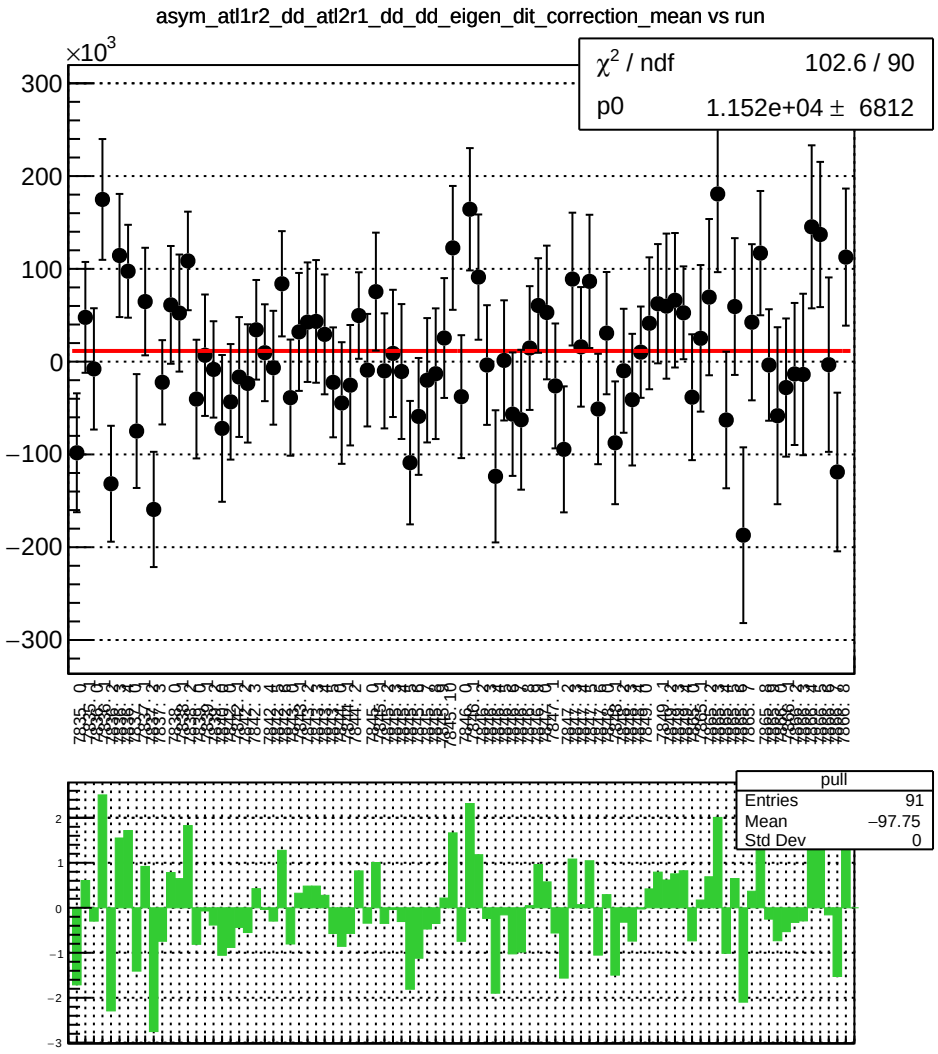

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 102.6 / 90
p0 1.152e+04 ± 6812
pull
Entries 91
Mean −97.75
Std Dev 0
pull1D
Entries 91
Mean −0.01432
Std Dev 1.062

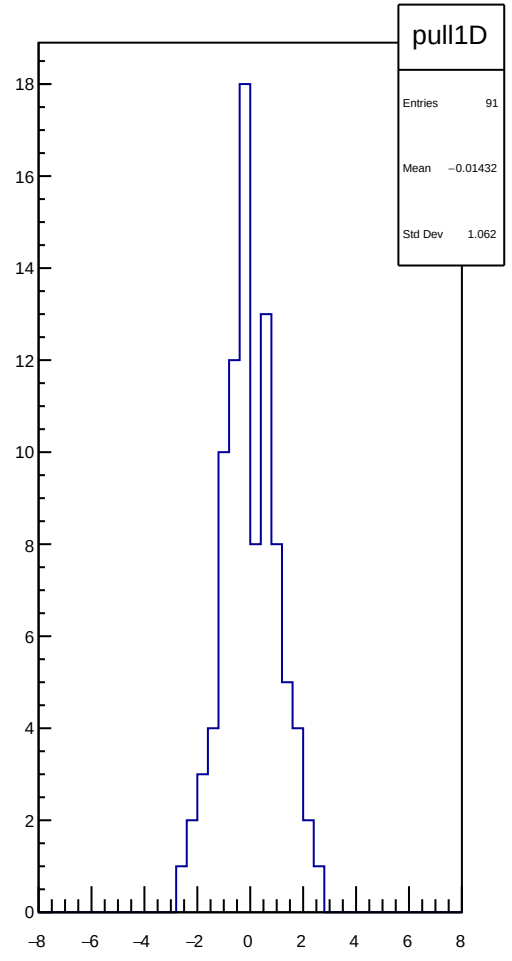

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.996e+04 / 90
p0 6345 ± 4.817
9000
8000
7000
6000
5000

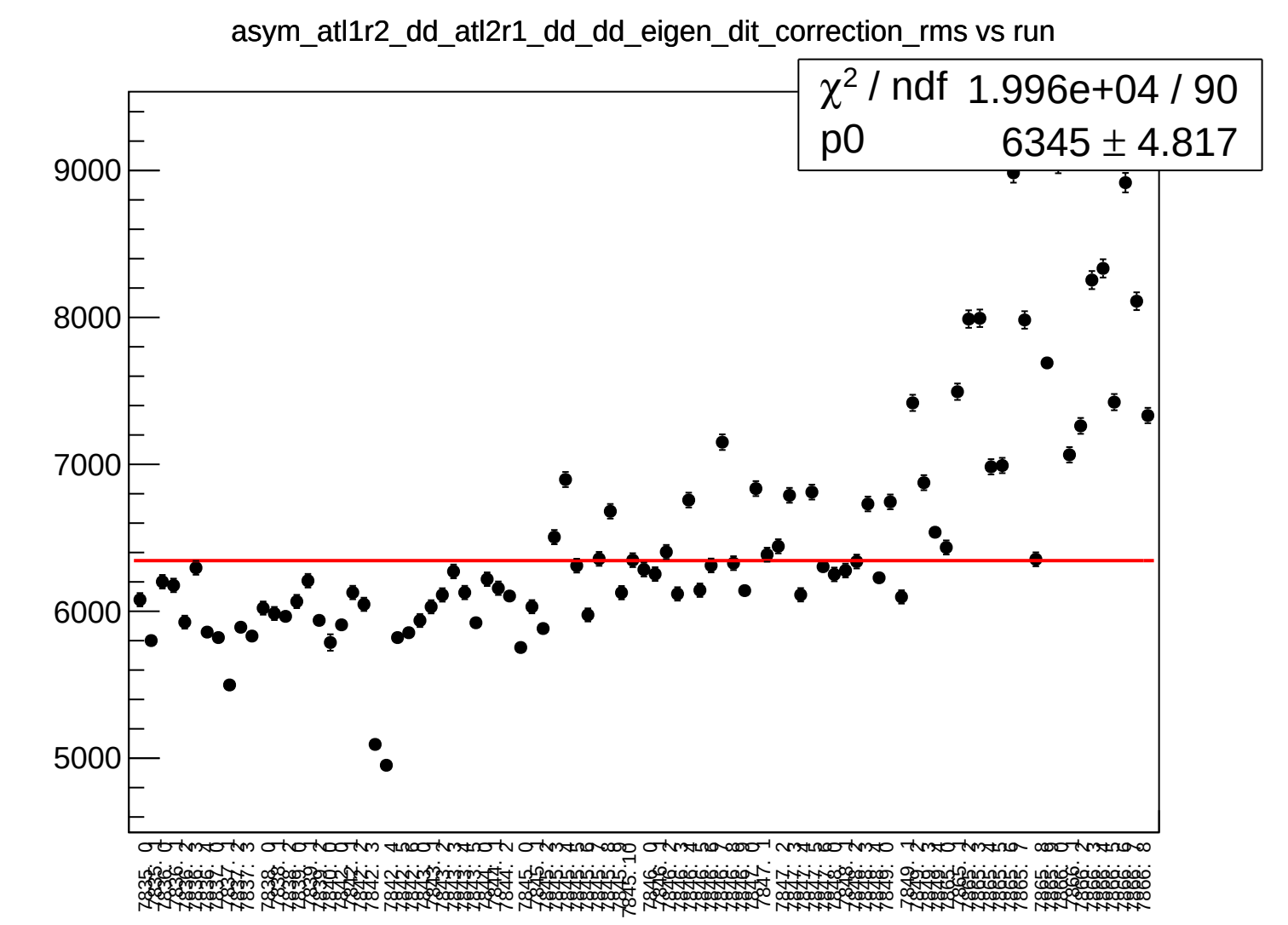

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.99 / 90
p0 −109.2 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 26.81
Std Dev 18.99
2
1
0
−1
−2

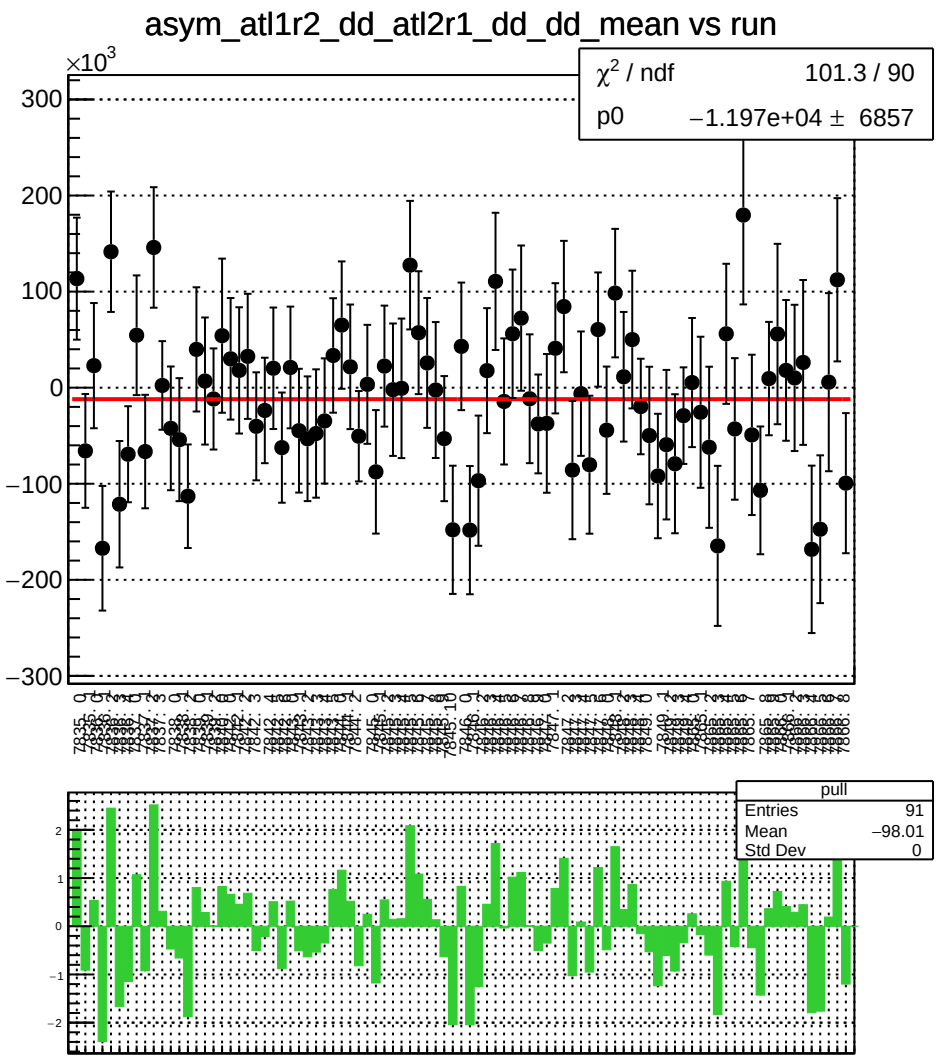

pull1D
Entries 91
Mean −0.0162
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

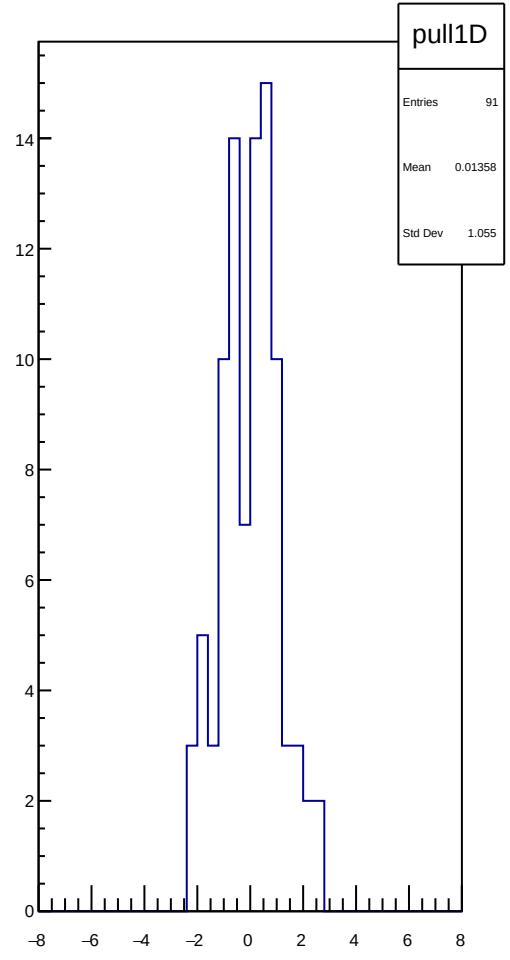

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 612.4 / 90
p0 1312 ± 0.9907
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

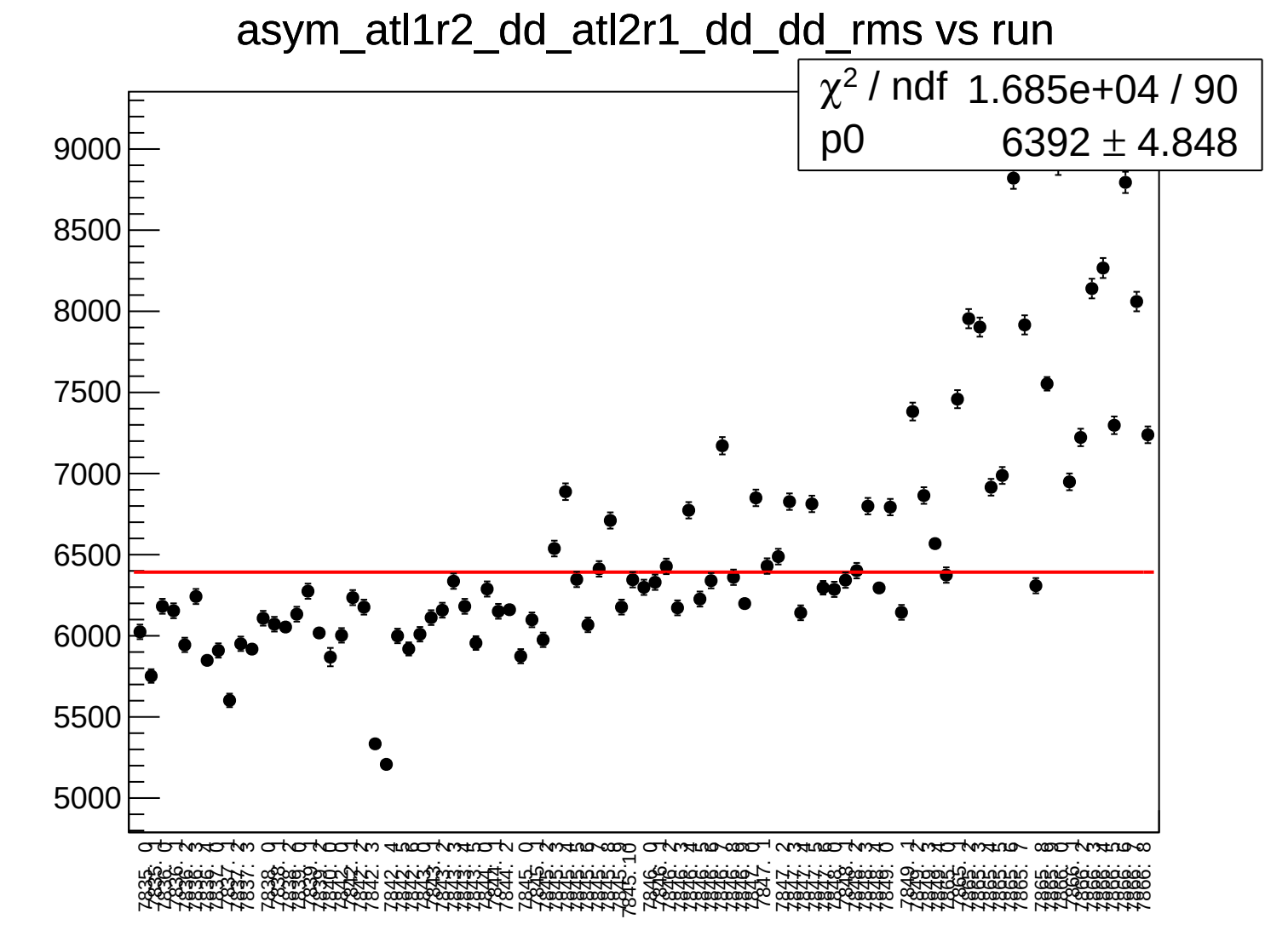

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.6 / 90
p0 1.152e+04 ± 6812
pull
Entries 91
Mean −97.75
Std Dev 0

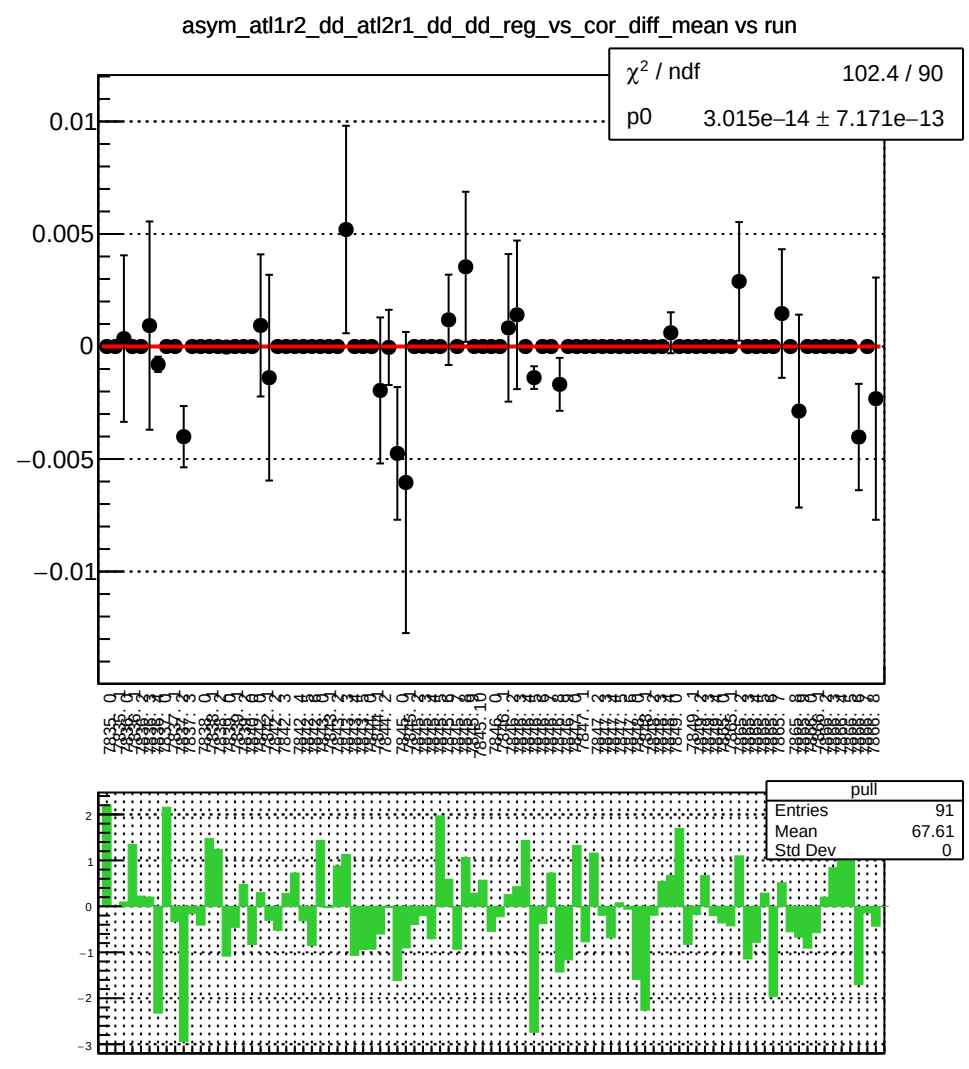

pull1D
Entries 91
Mean −0.01432
Std Dev 1.062

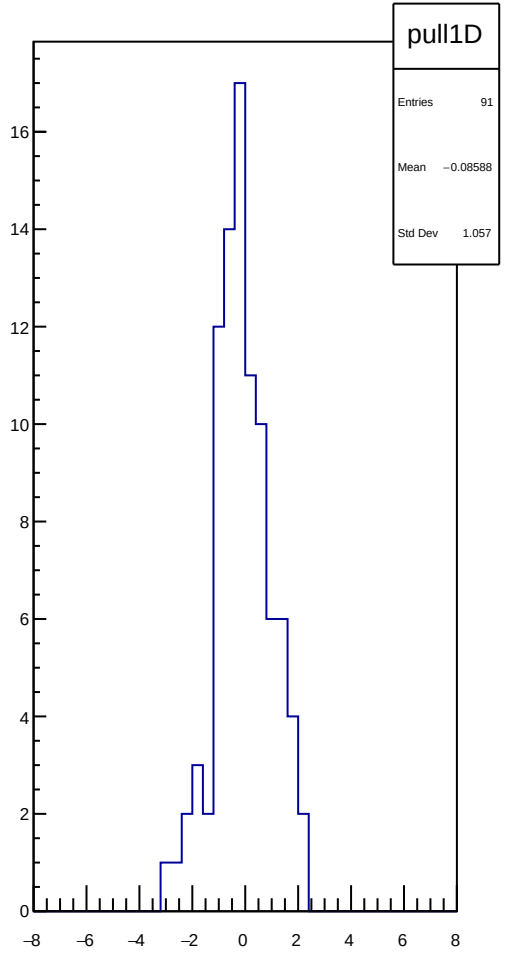

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.996e+04 / 90
p0 6345 ± 4.817
9000
8000
7000
6000
5000

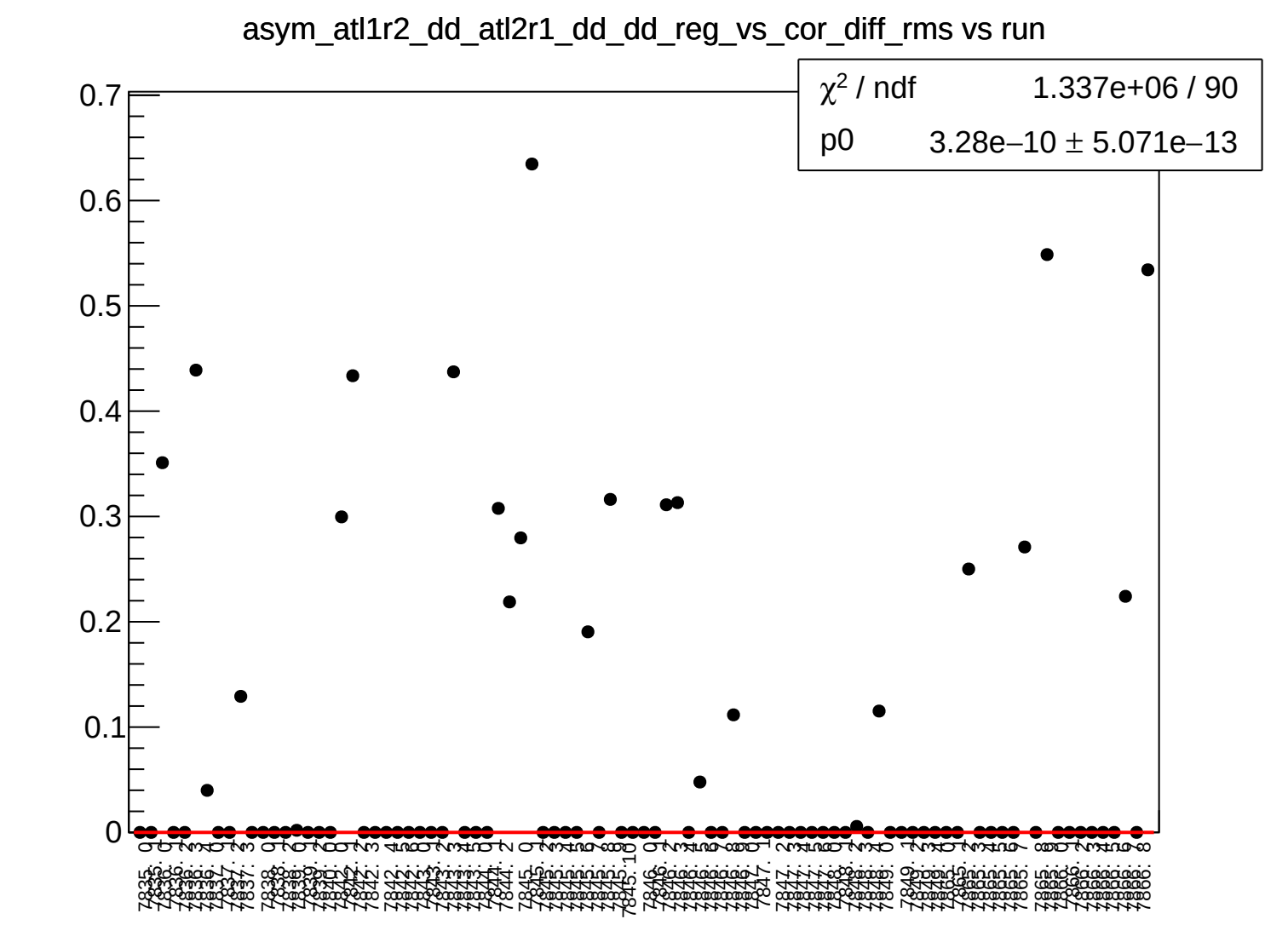

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 101.3 / 90
p0 −1.197e+04 ± 6857
pull
Entries 91
Mean −98.01
Std Dev 0

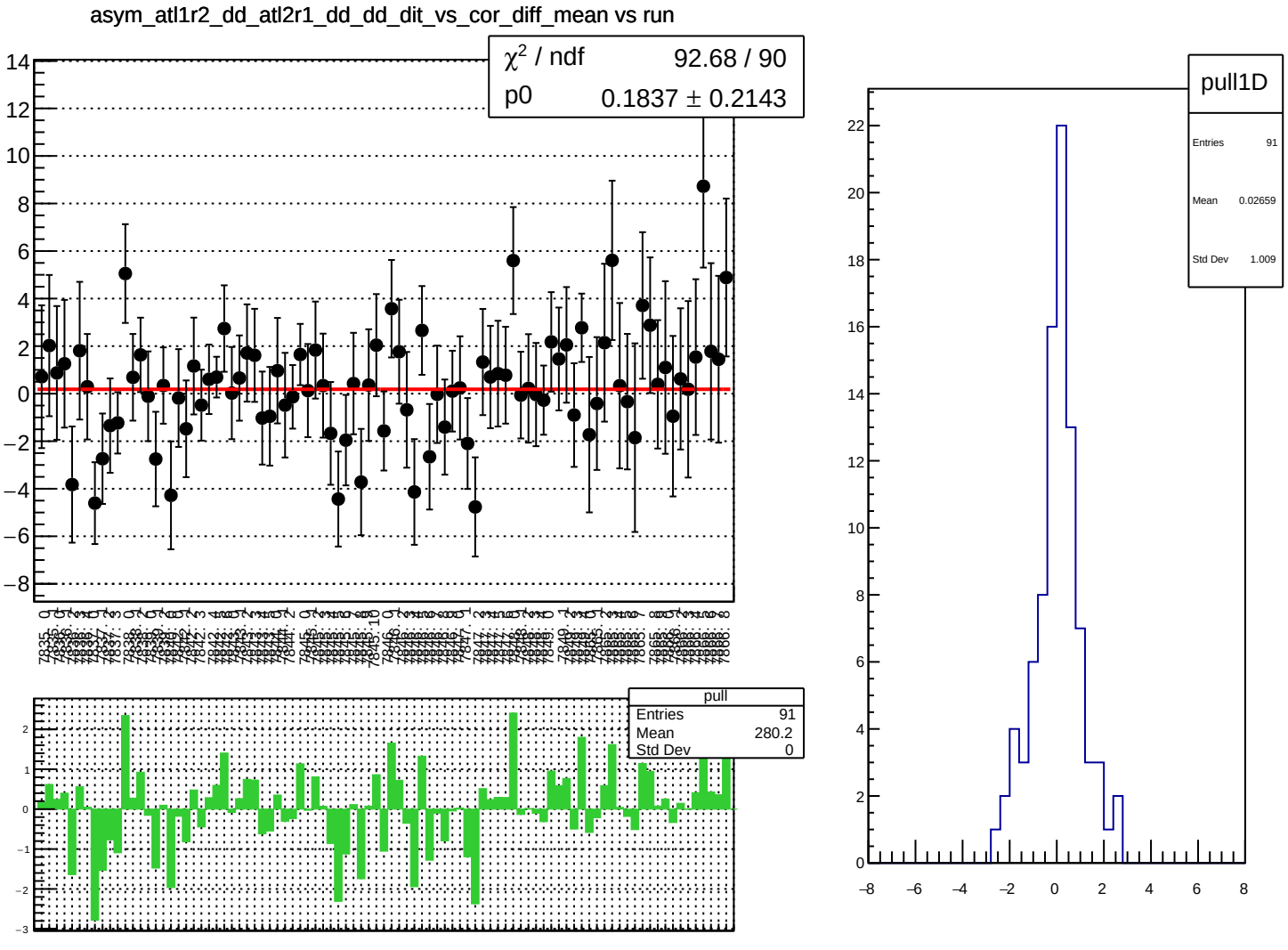

pull1D
Entries 91
Mean 0.01358
Std Dev 1.055

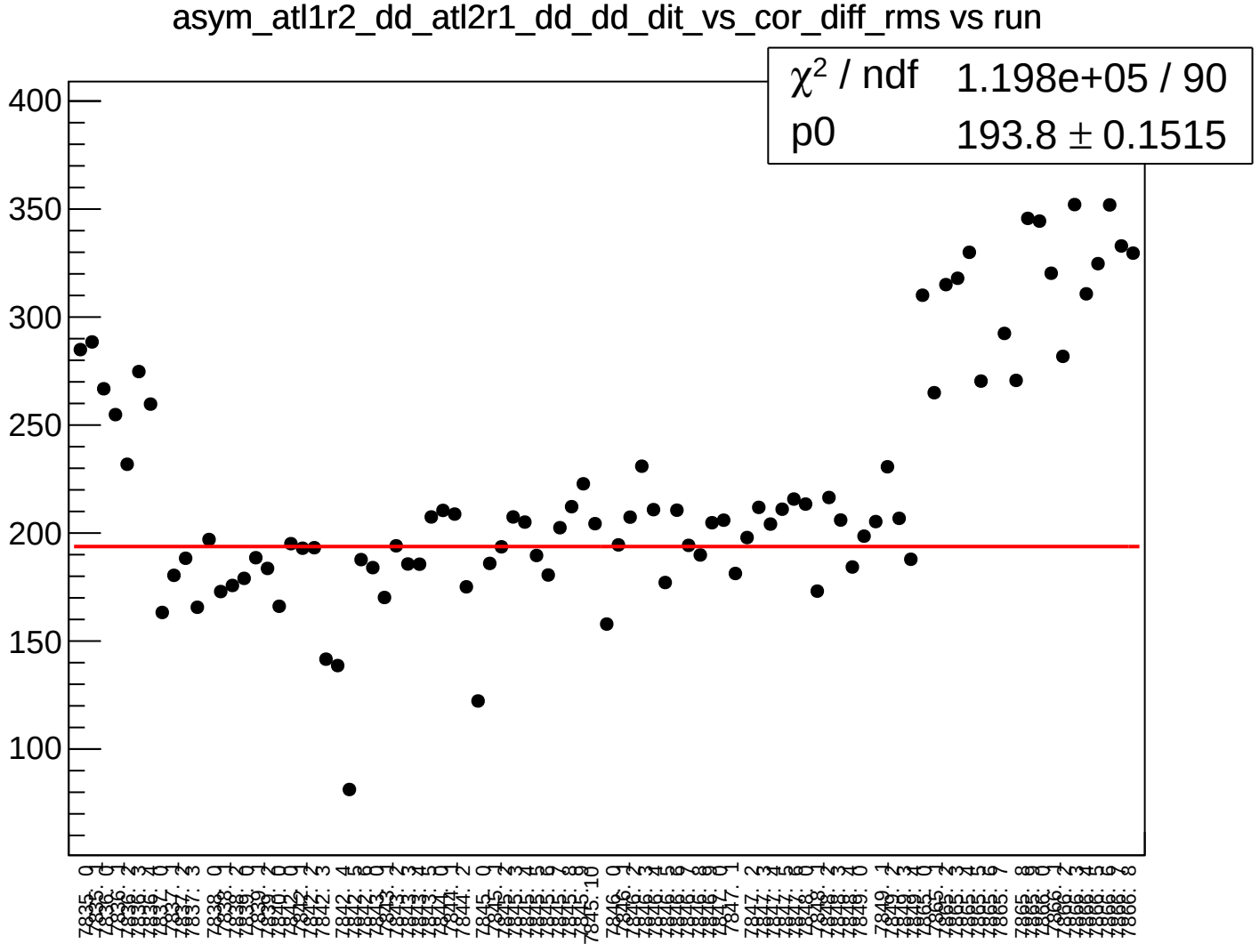

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 1.685e+04 / 90
p0 6392 ± 4.848
9000
8500
8000
7500
7000
6500
6000
5500
5000

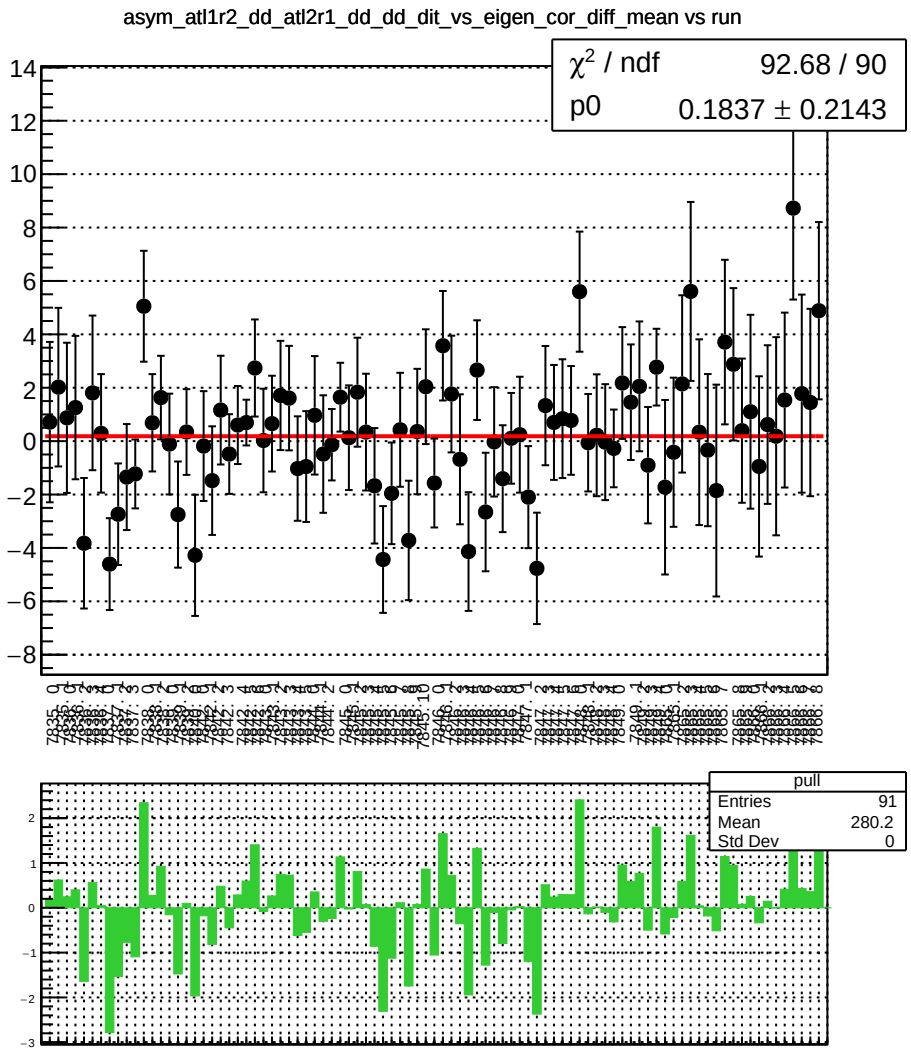

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 90
p0 3.015e−14 ± 7.171e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 67.61
Std Dev 0
2
1
0
−1
−2
−3

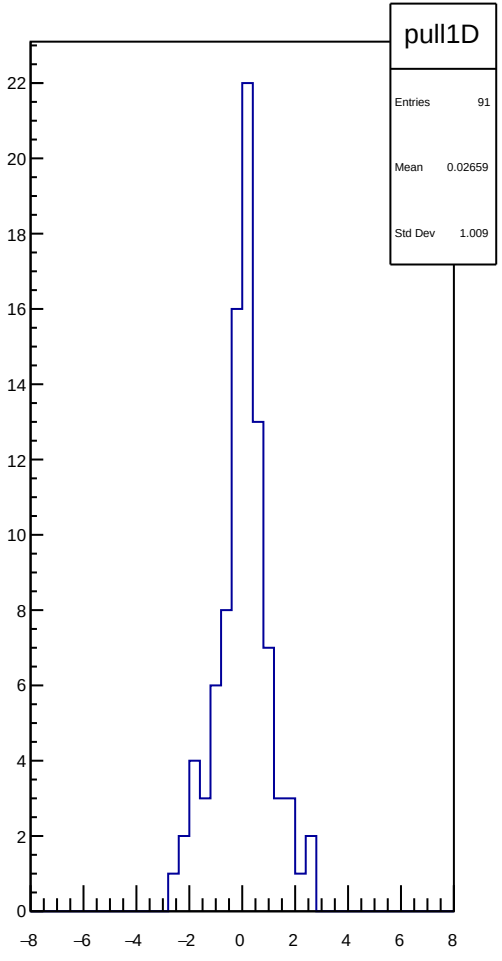

pull1D
Entries 91
Mean −0.08588
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

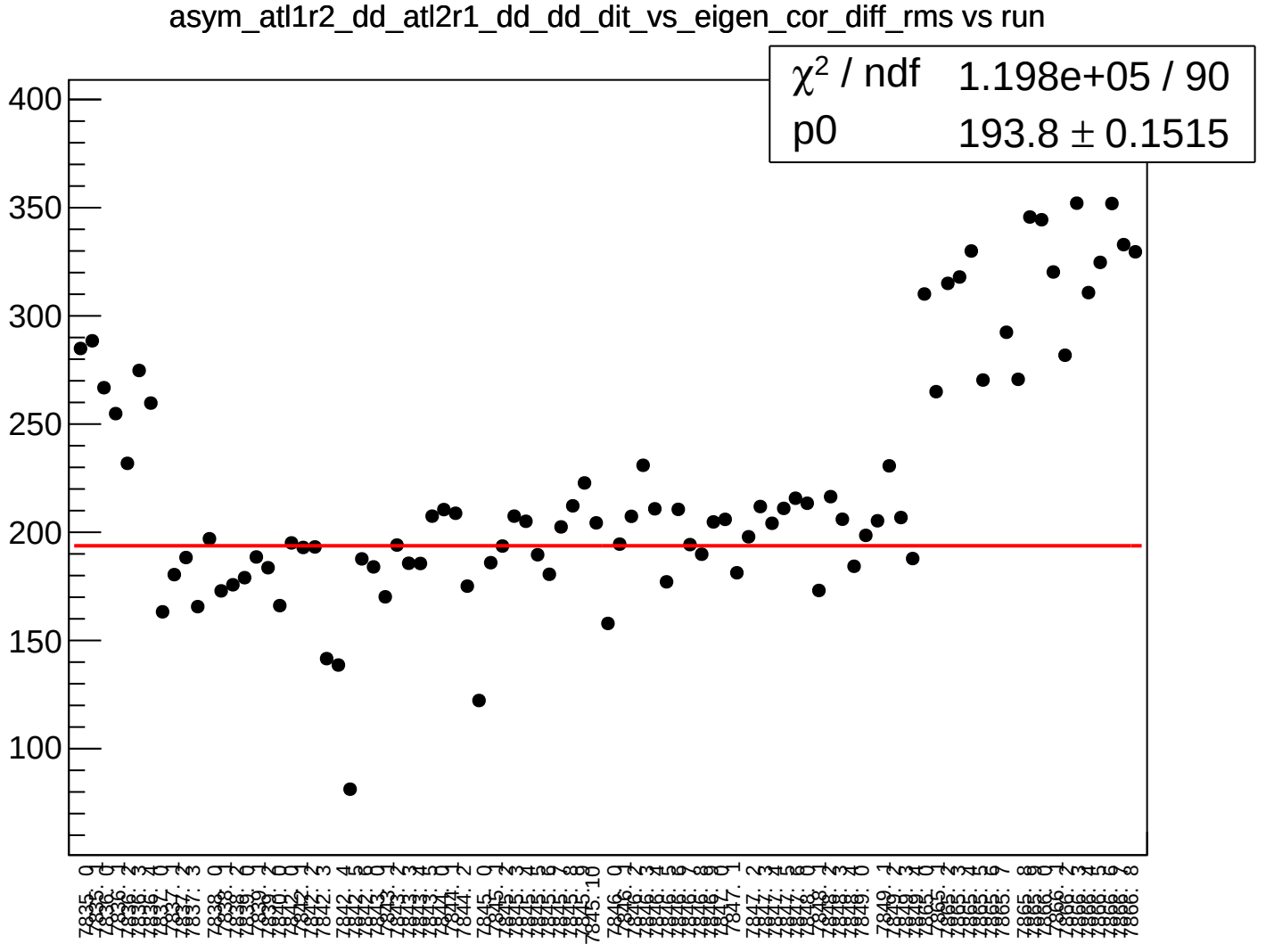

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.337e+06 / 90
p0 3.28e−10 ± 5.071e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

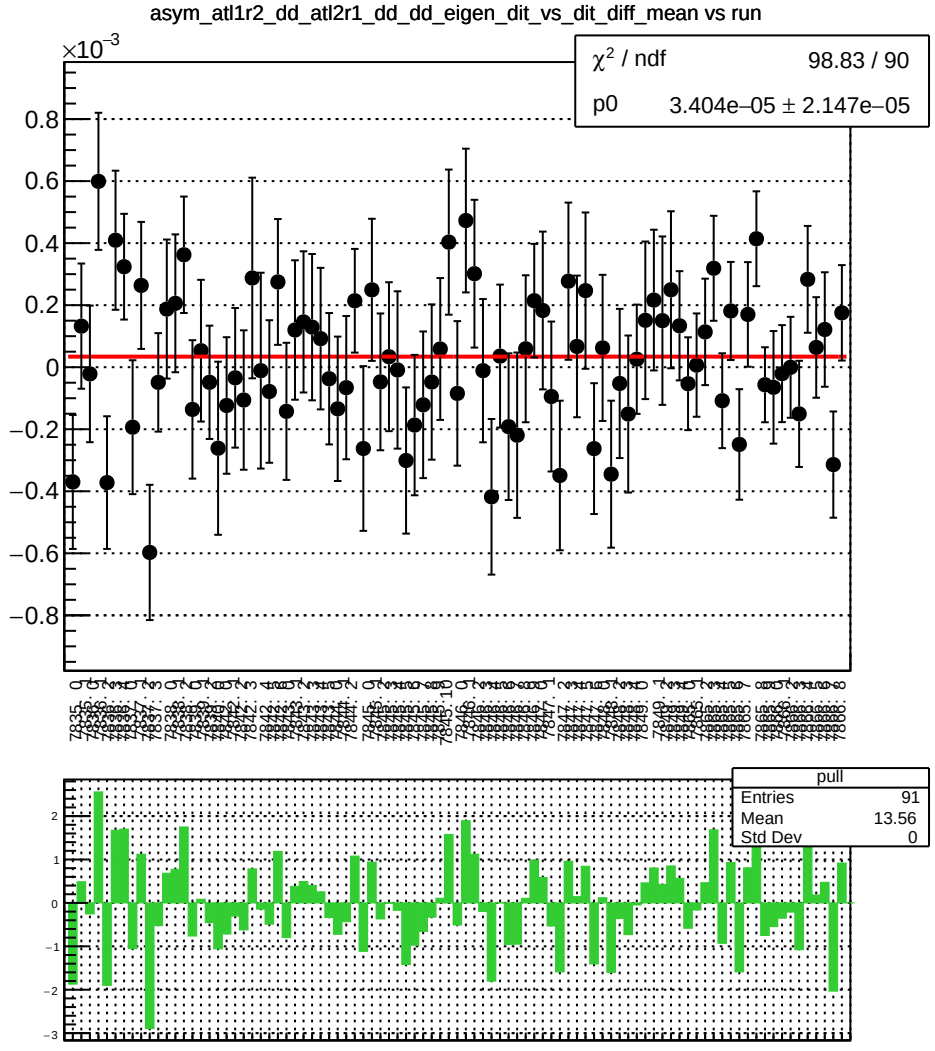

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ^2 / ndf 92.68 / 90
p0 0.1837 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02659
Std Dev 1.009

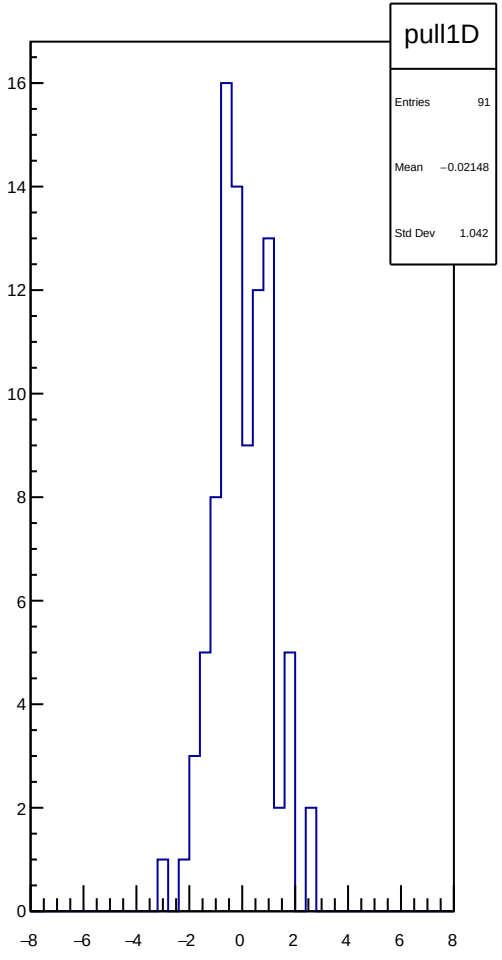

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

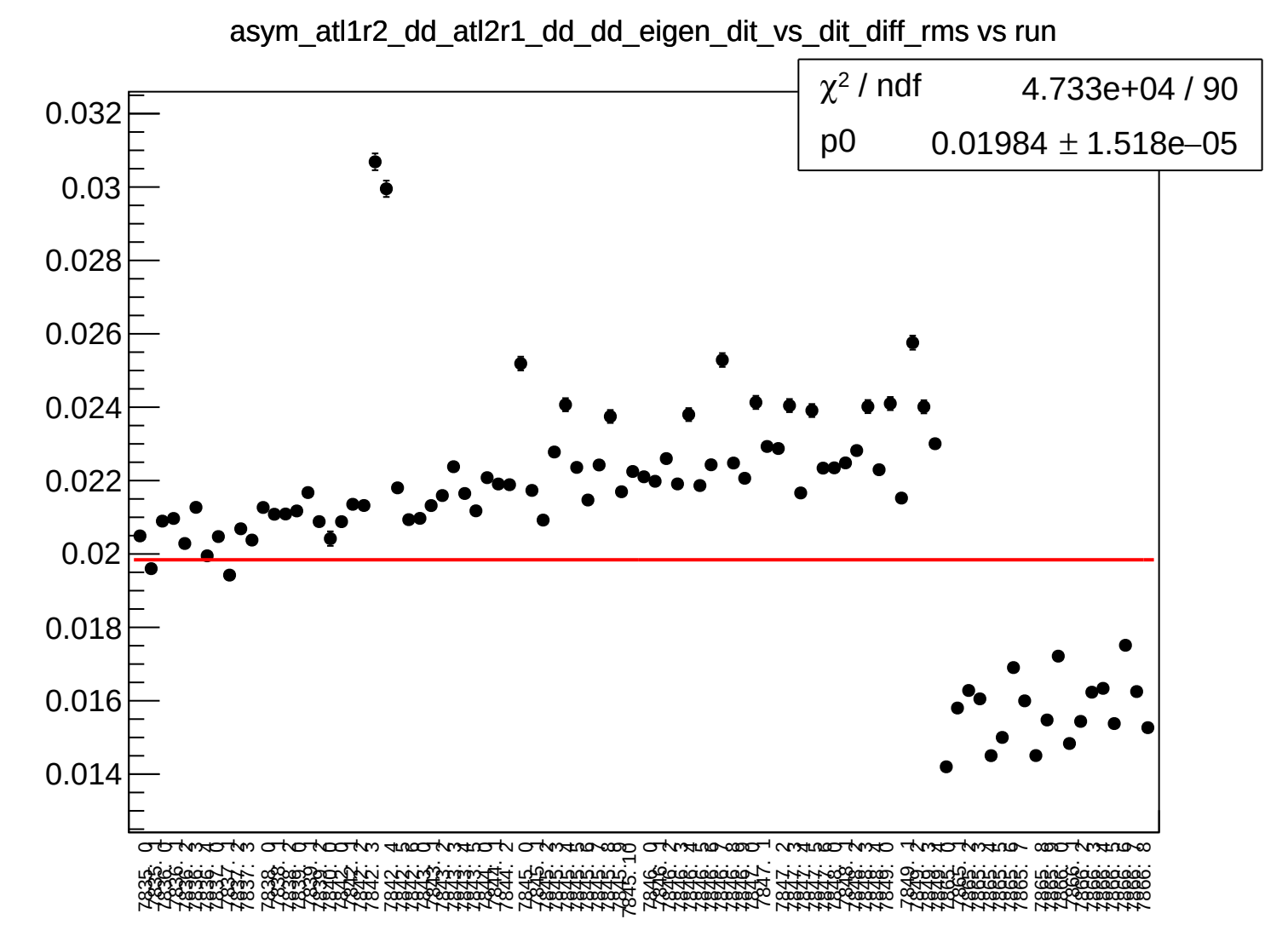

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1837 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0

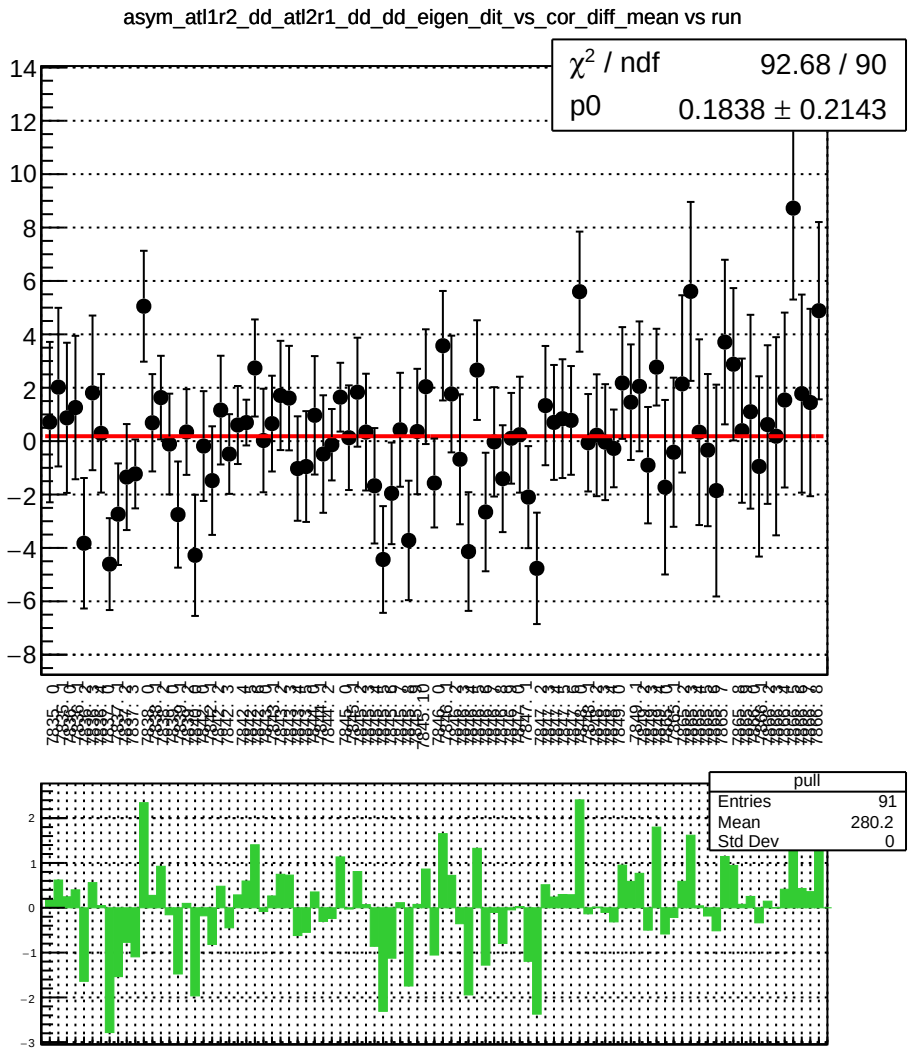

pull1D
Entries 91
Mean 0.02659
Std Dev 1.009

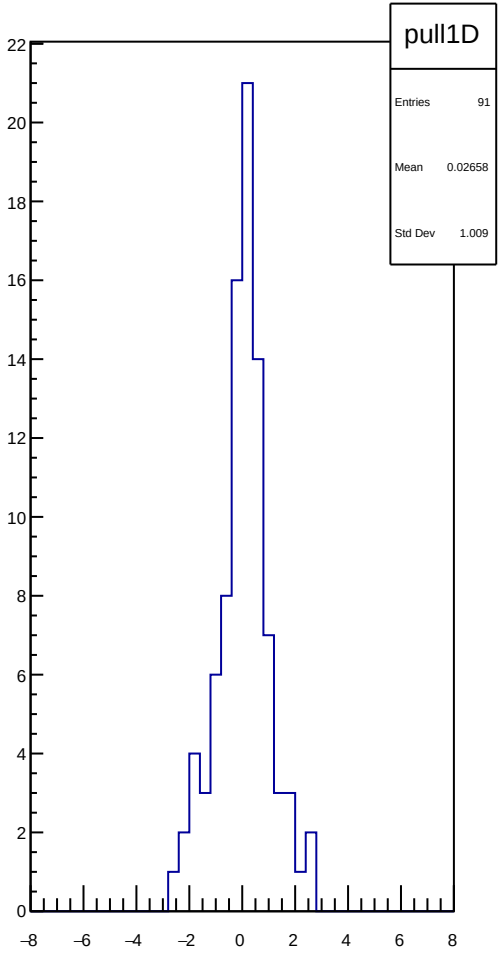

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

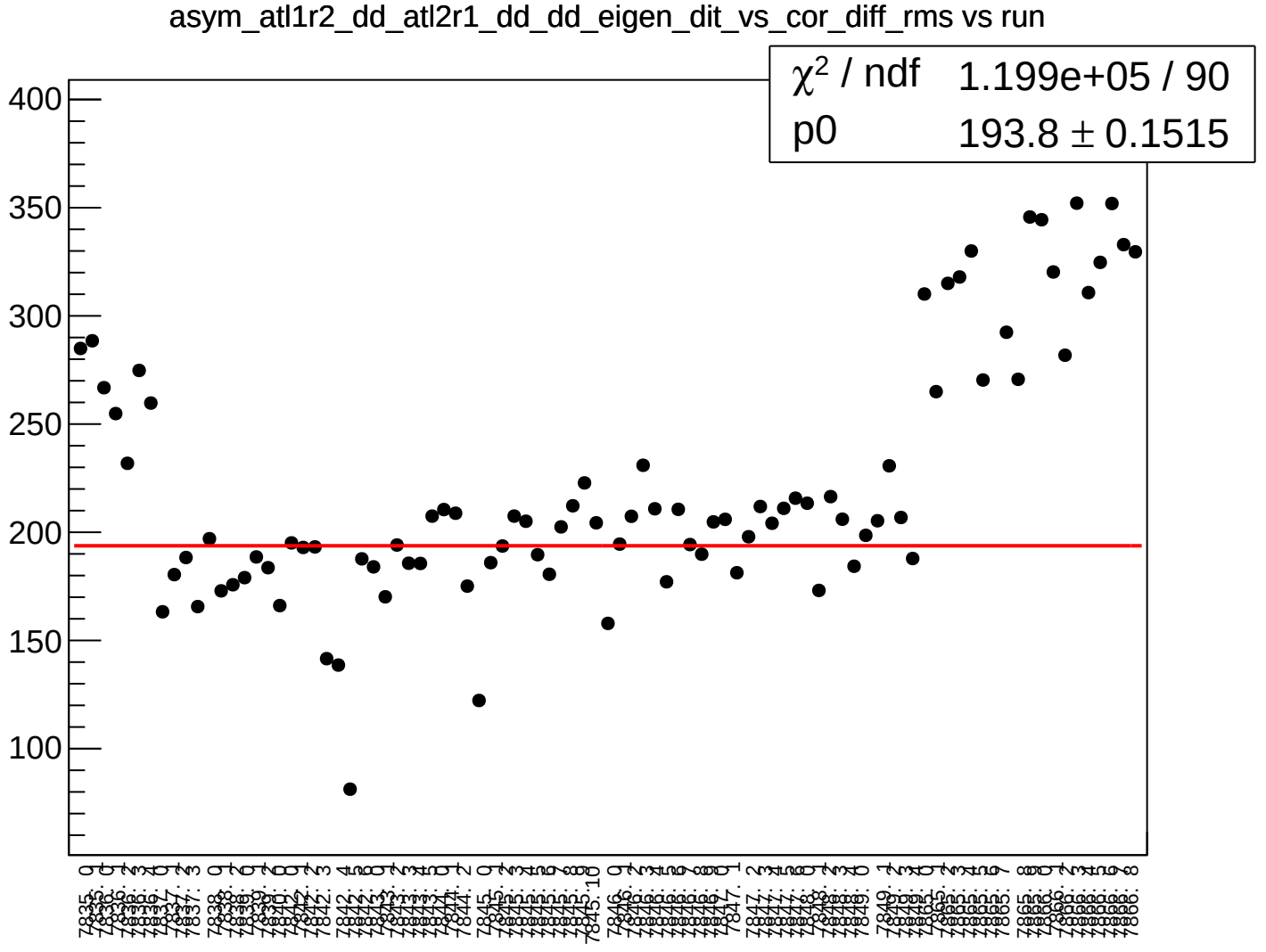

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.83 / 90
p0 3.404e−05 ± 2.147e−05
pull
Entries 91
Mean 13.56
Std Dev 0

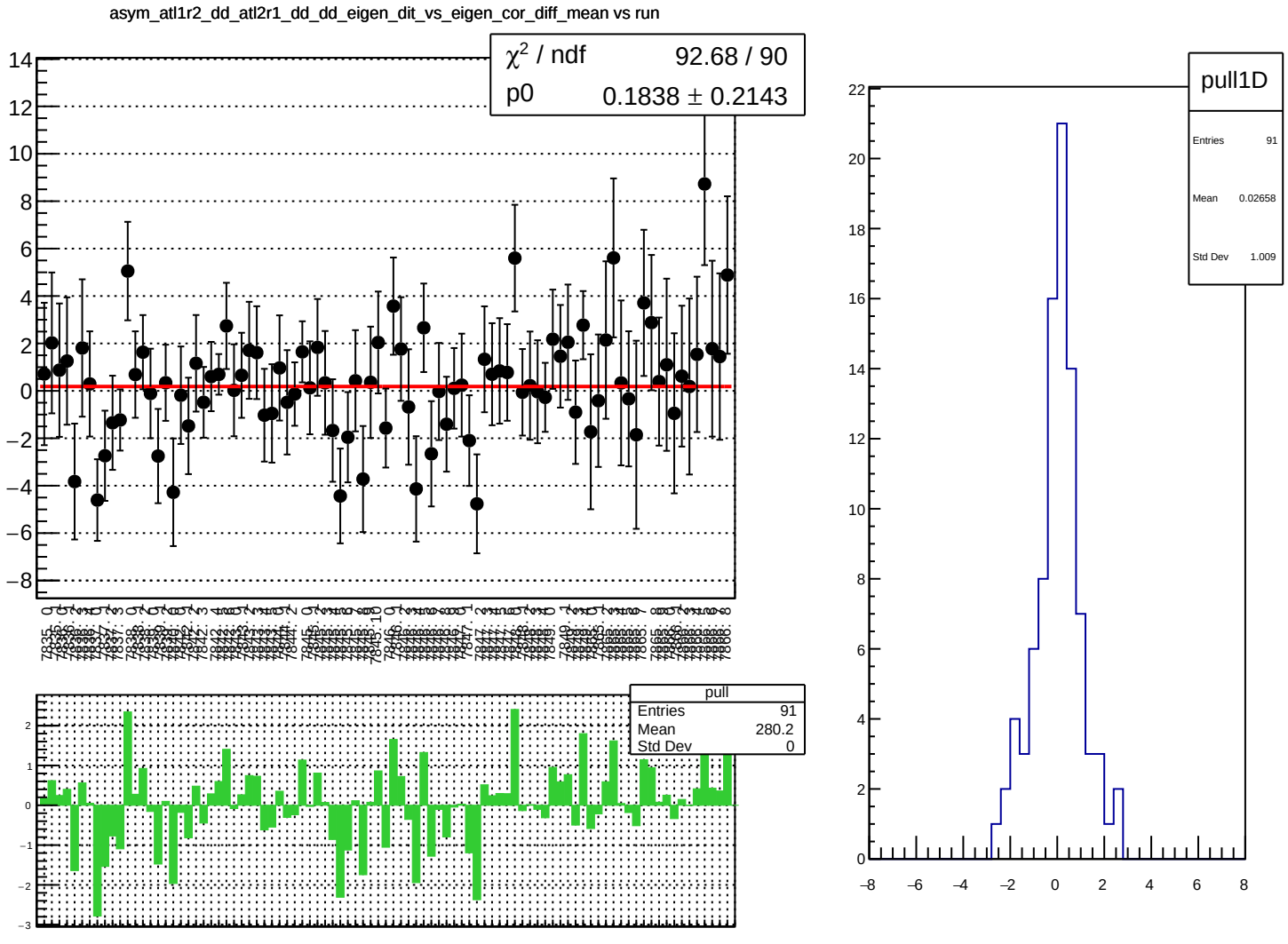

pull1D
Entries 91
Mean −0.02148
Std Dev 1.042

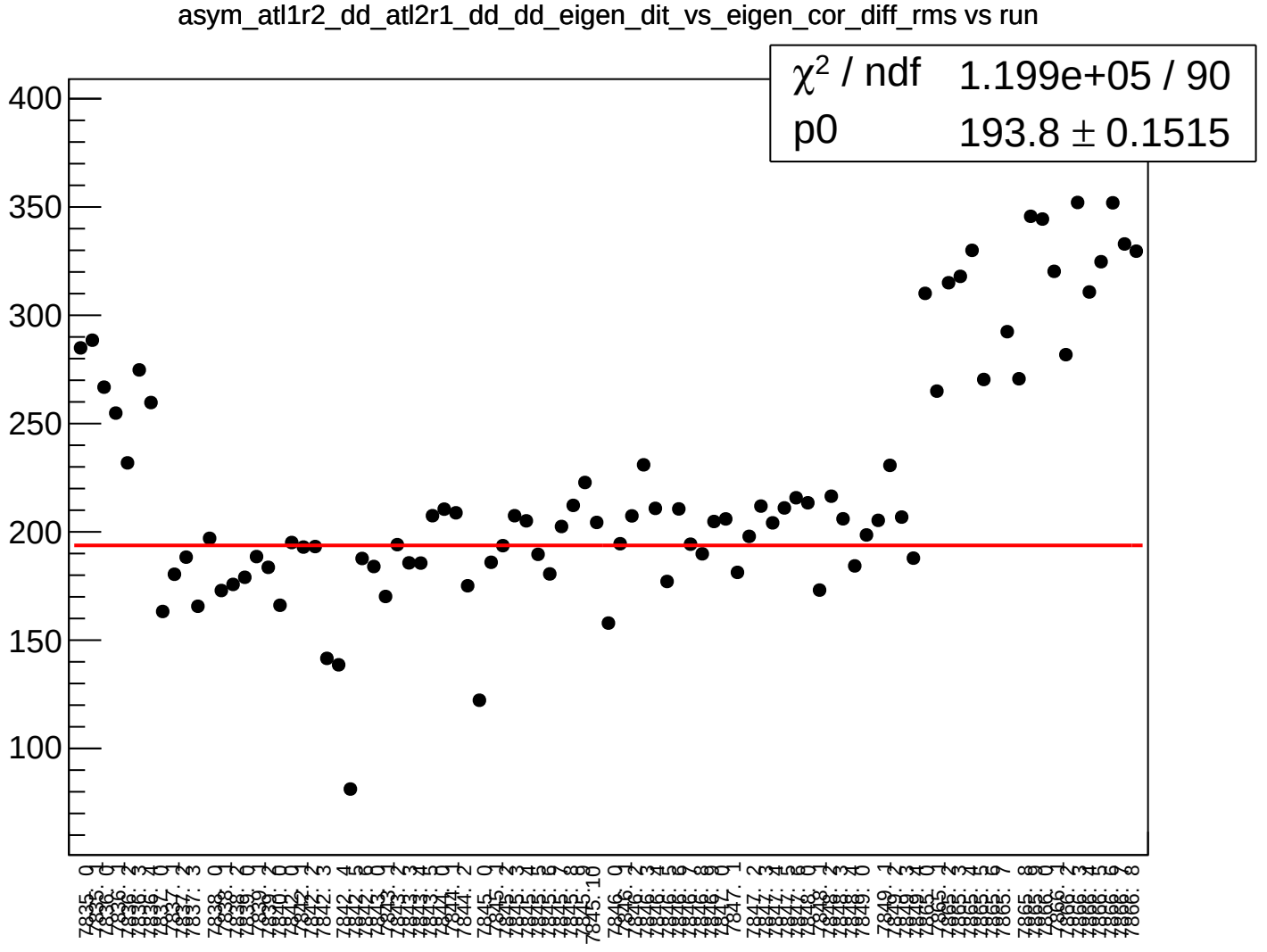

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.733e+04 / 90
p0 0.01984 ± 1.518e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

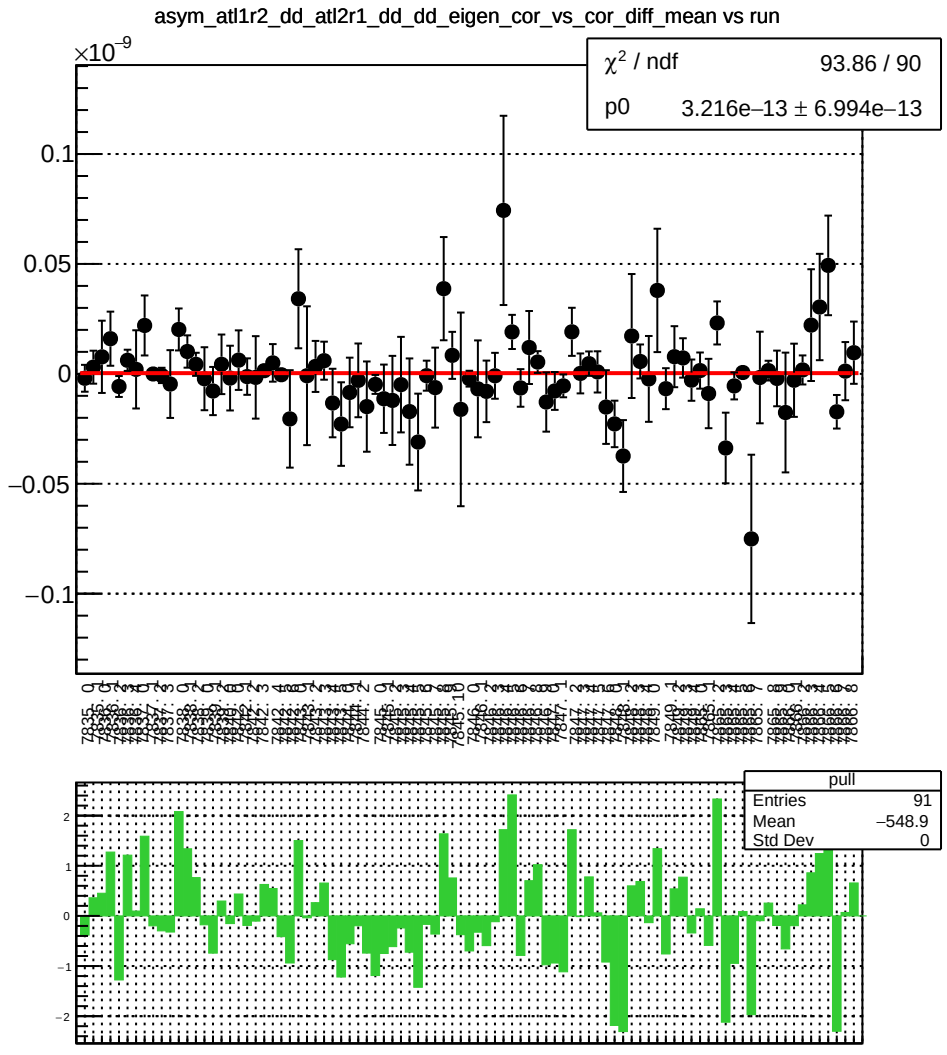

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1838 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0

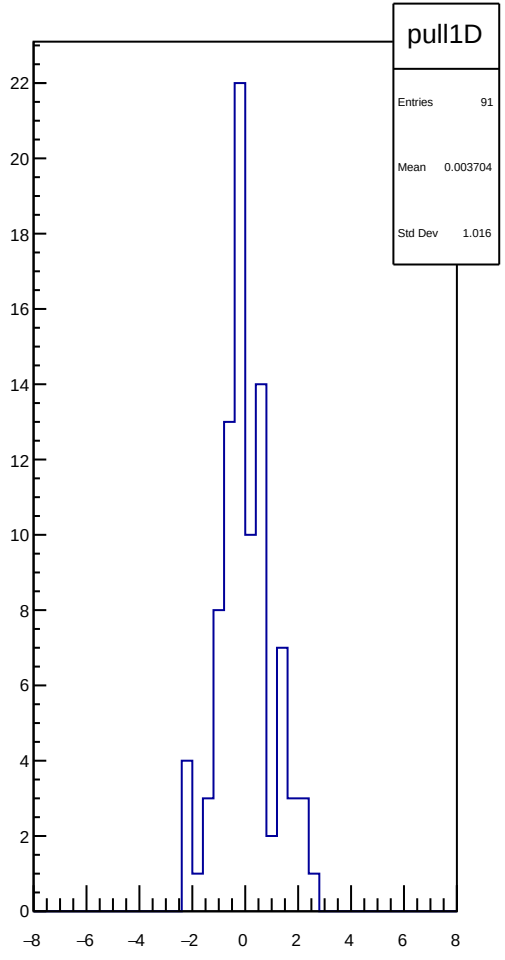

pull1D
Entries 91
Mean 0.02658
Std Dev 1.009

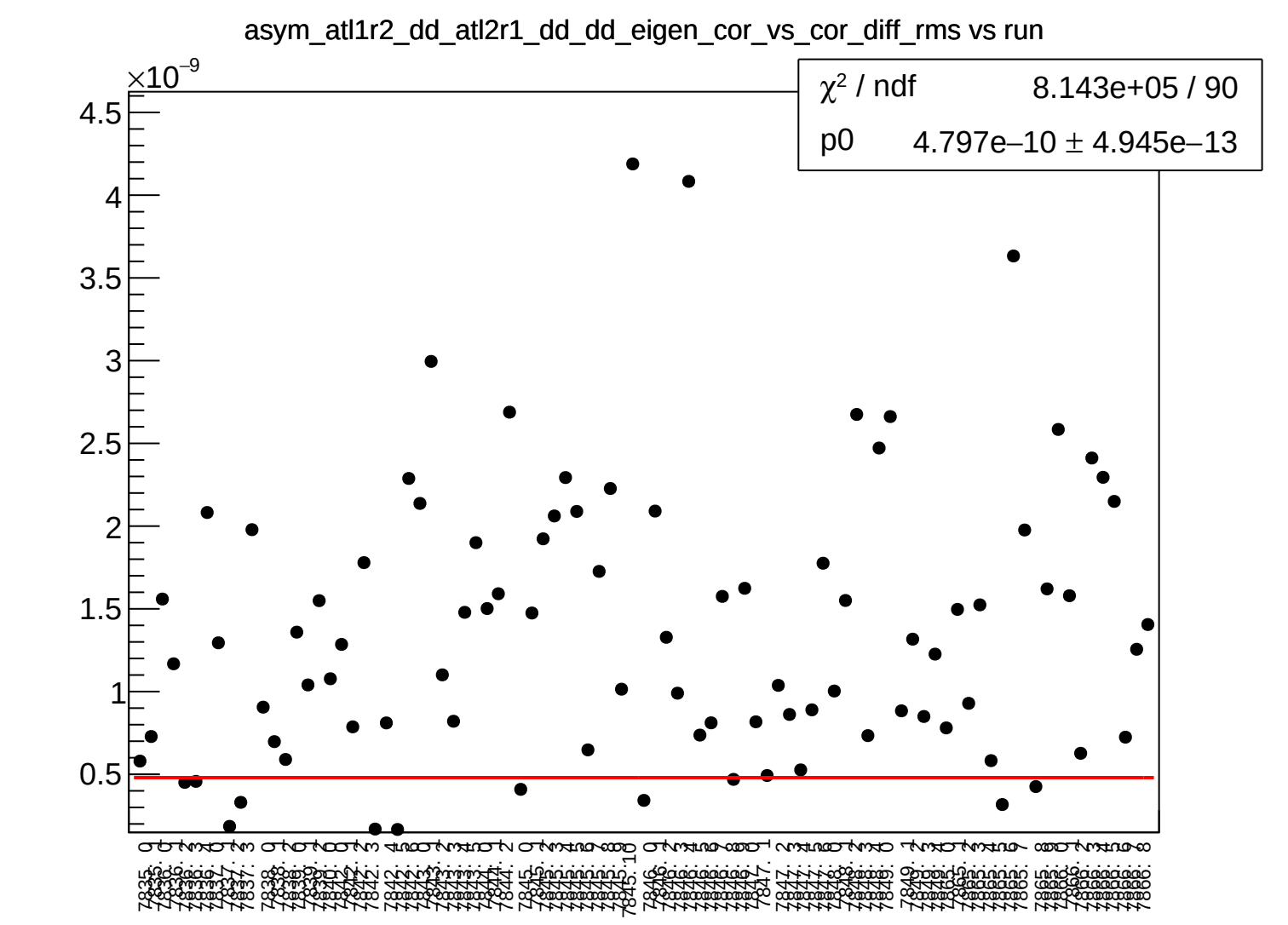

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.199e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

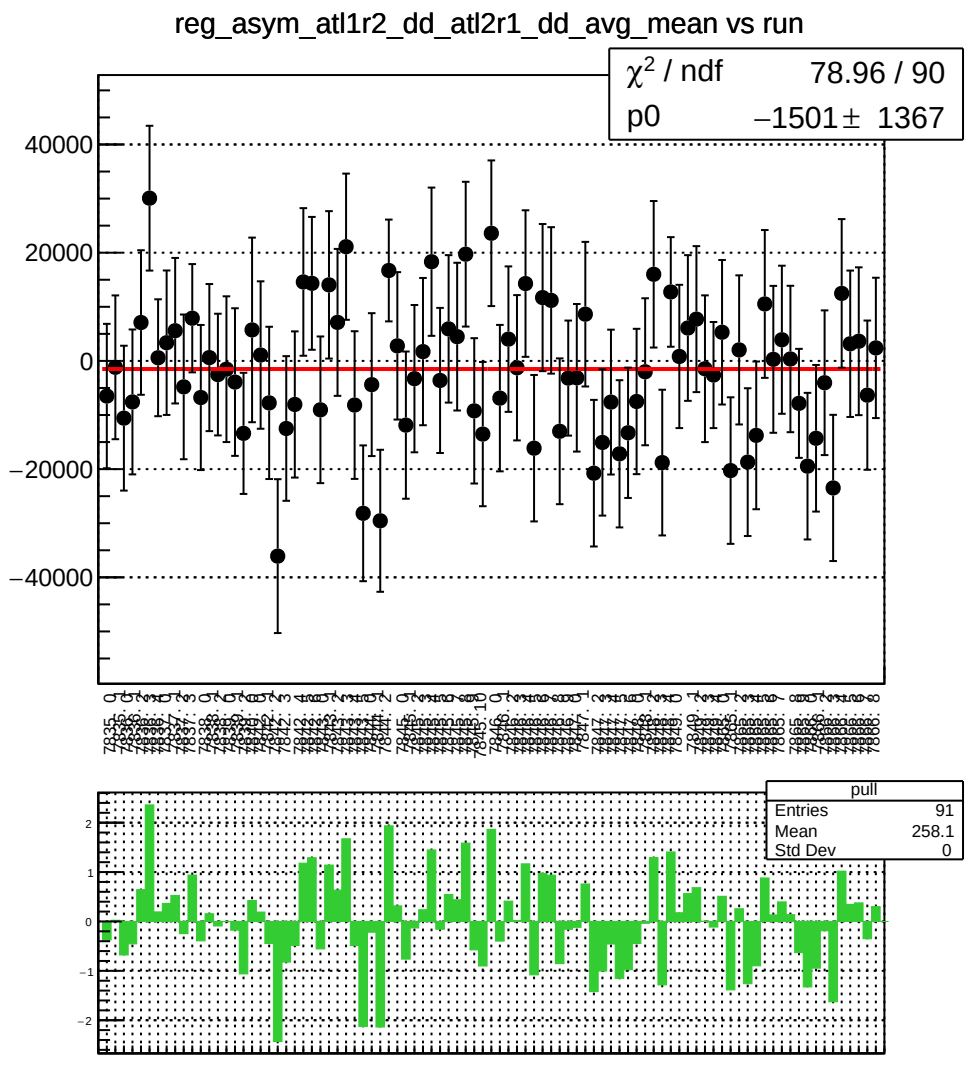

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.68 / 90
p0 0.1838 ± 0.2143
pull
Entries 91
Mean 280.2
Std Dev 0
pull1D
Entries 91
Mean 0.02658
Std Dev 1.009

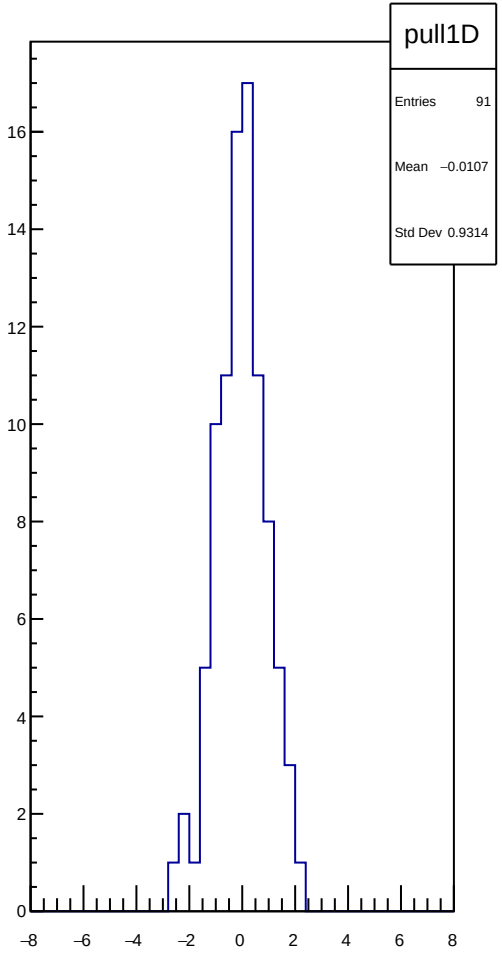

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.199e+05 / 90
p0 193.8 ± 0.1515
400
350
300
250
200
150
100

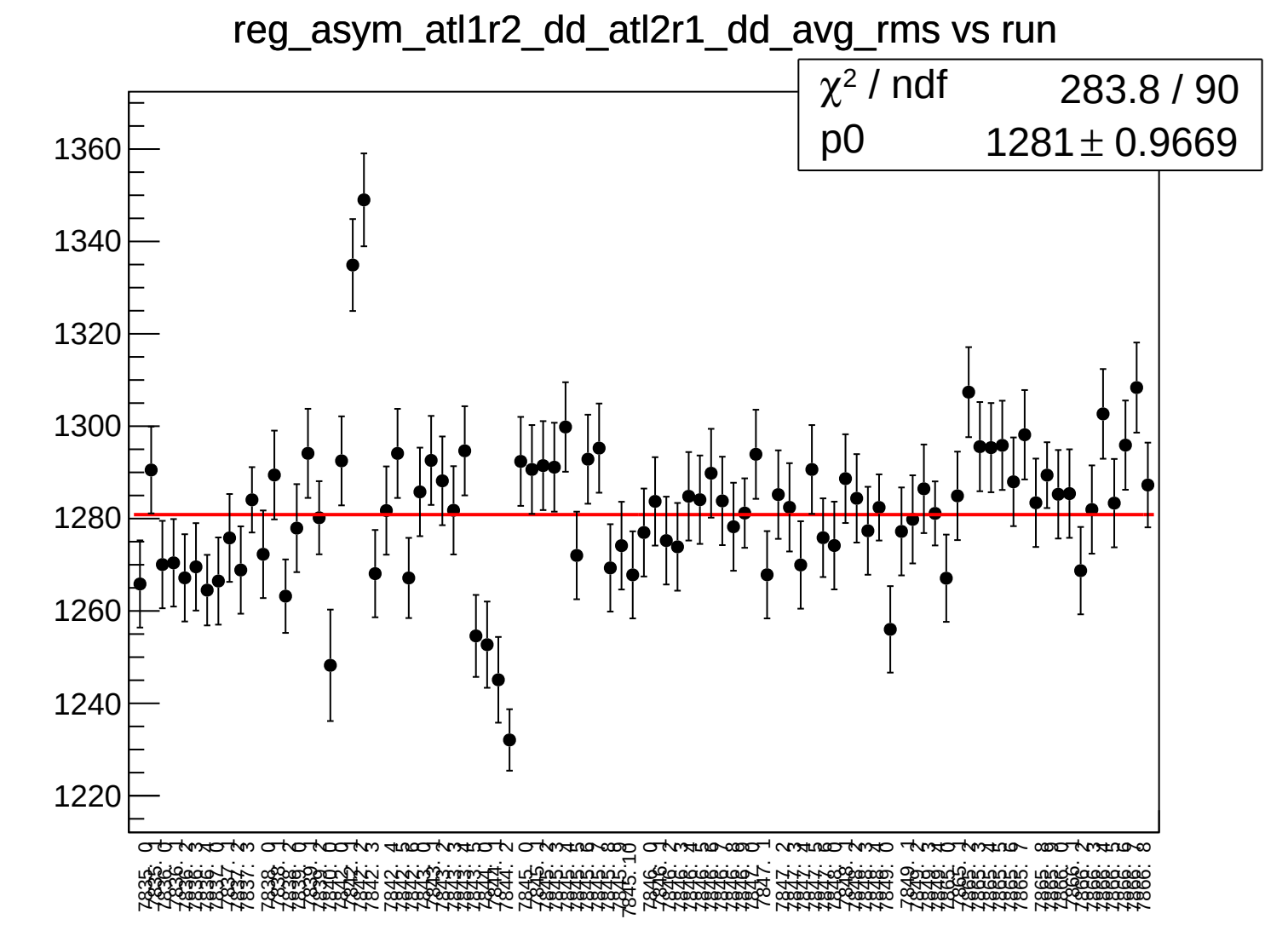

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 93.86 / 90
p0 3.216e−13 ± 6.994e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −548.9
Std Dev 0
2
1
0
−1
−2

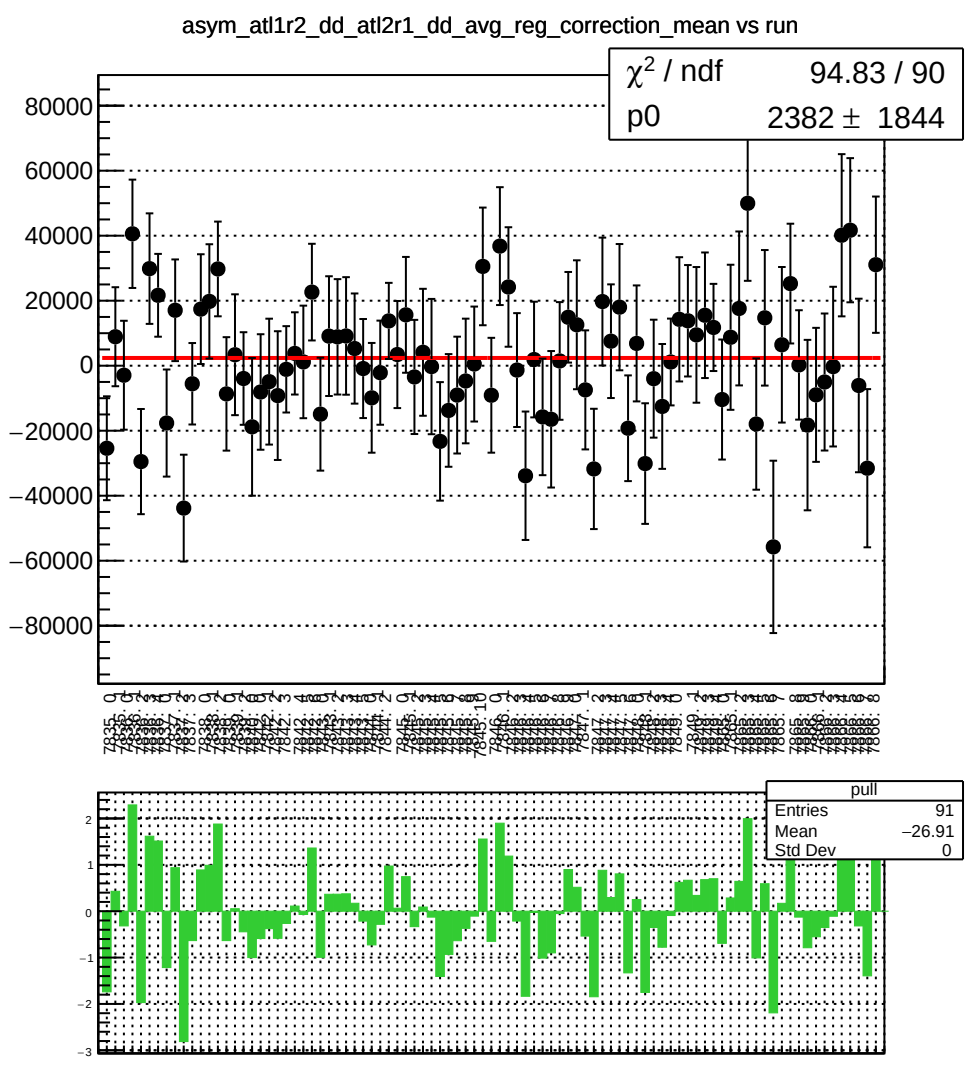

pull1D
Entries 91
Mean 0.003704
Std Dev 1.016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

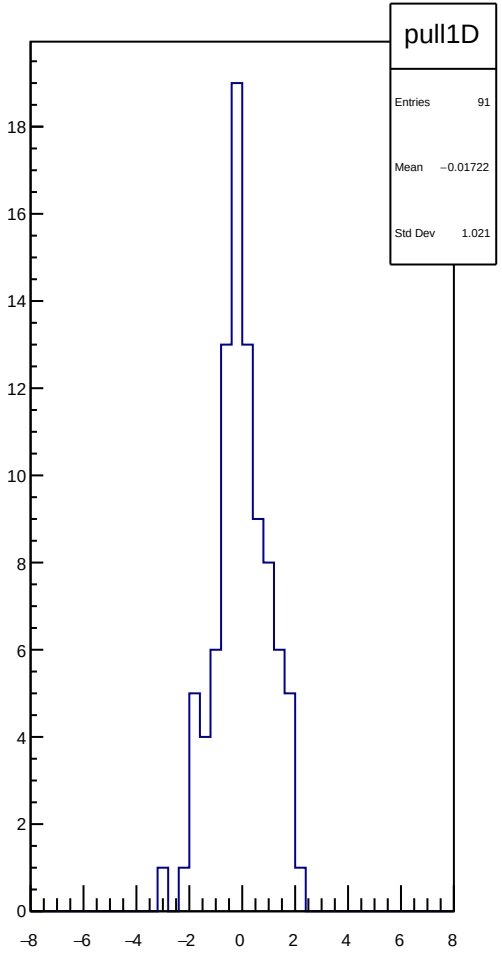

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.143e+05 / 90
p0 4.797e−10 ± 4.945e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

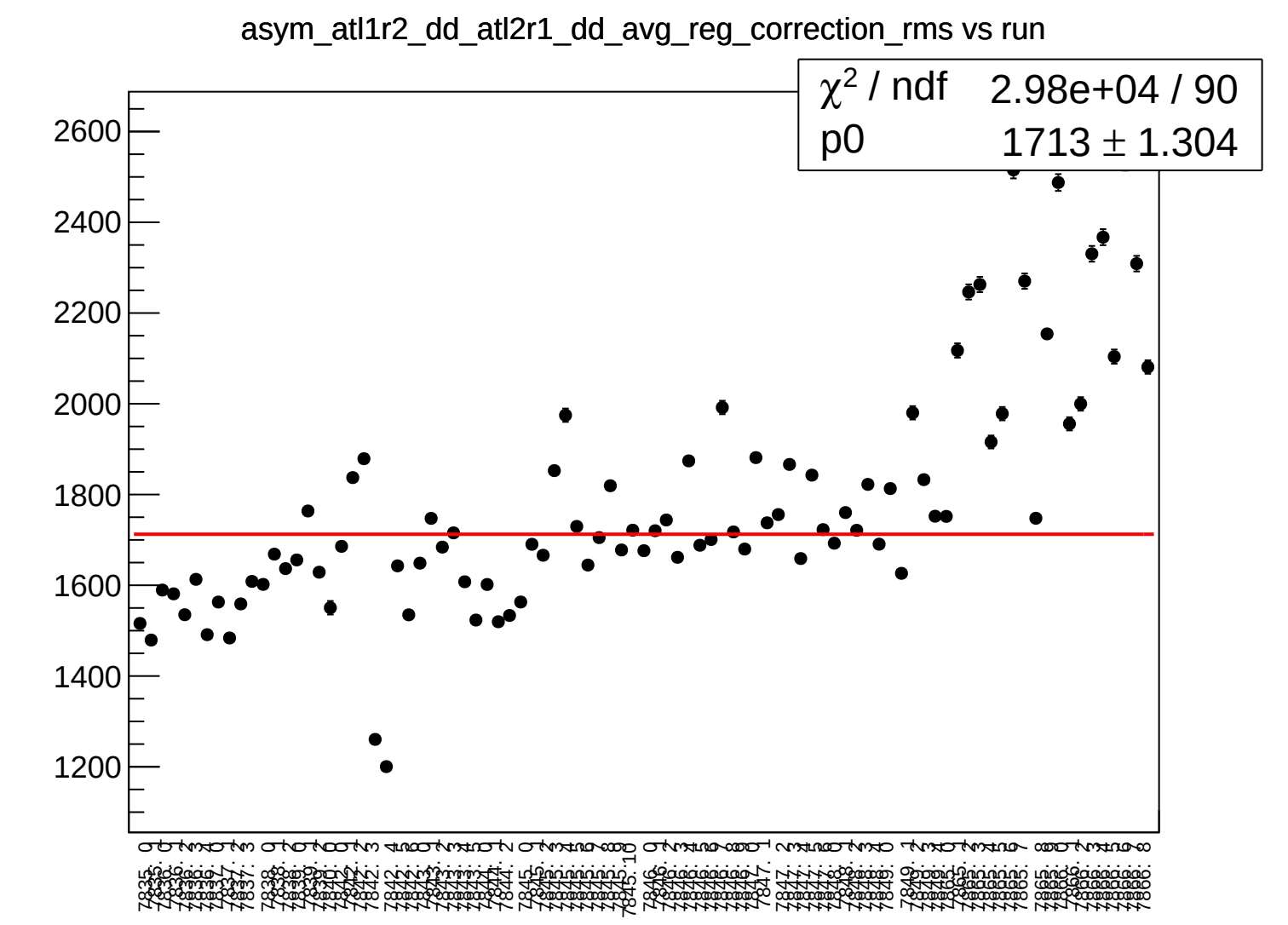

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 78.96 / 90
p0 −1501 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 258.1
Std Dev 0
2
1
0
−1
−2

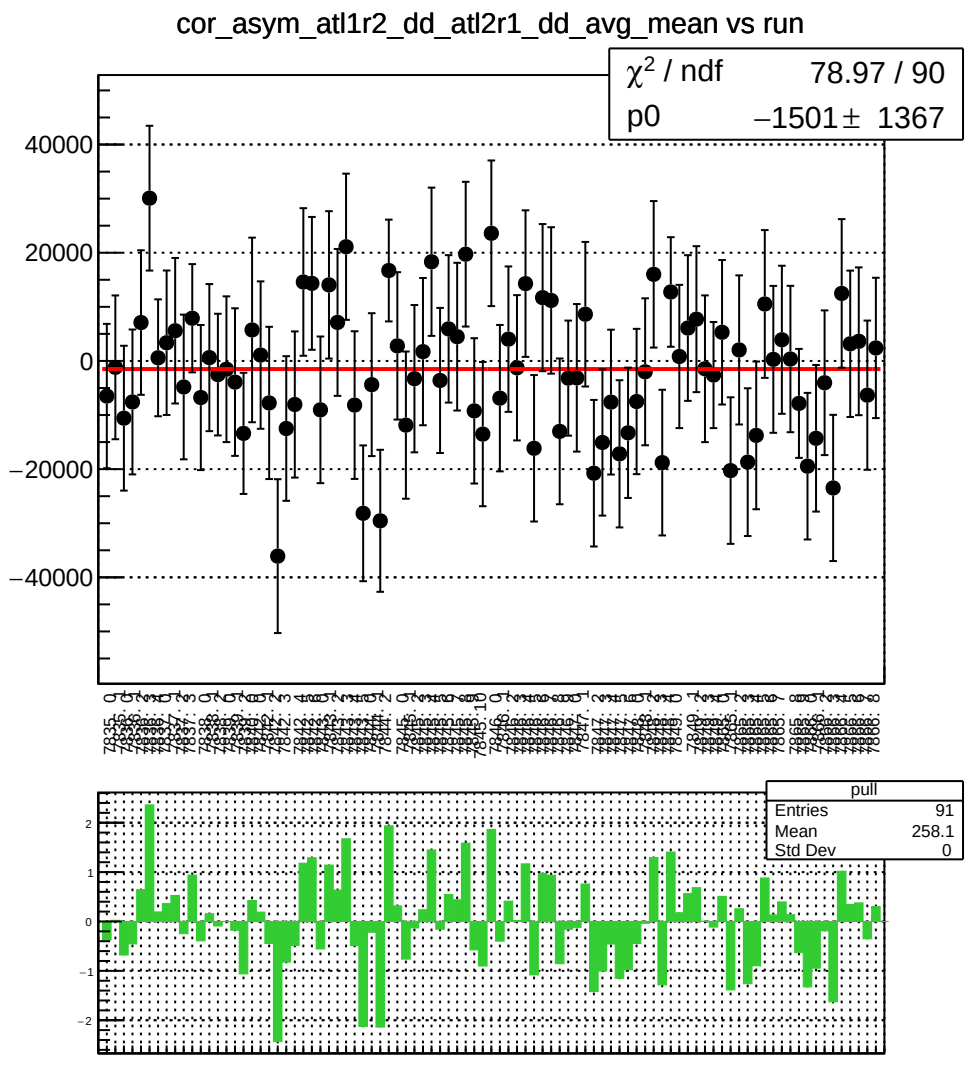

pull1D
Entries 91
Mean −0.0107
Std Dev 0.9314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

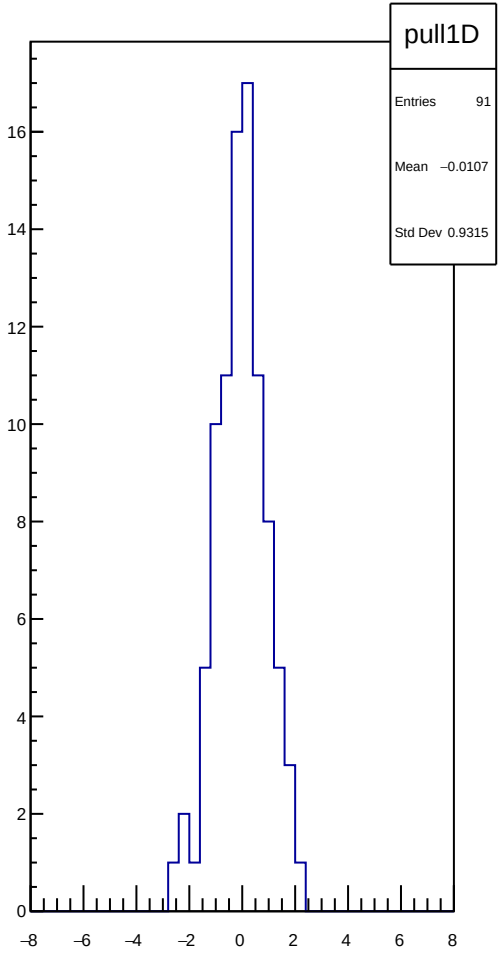

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 283.8 / 90
p0 1281 ± 0.9669
1360
1340
1320
1300
1280
1260
1240
1220

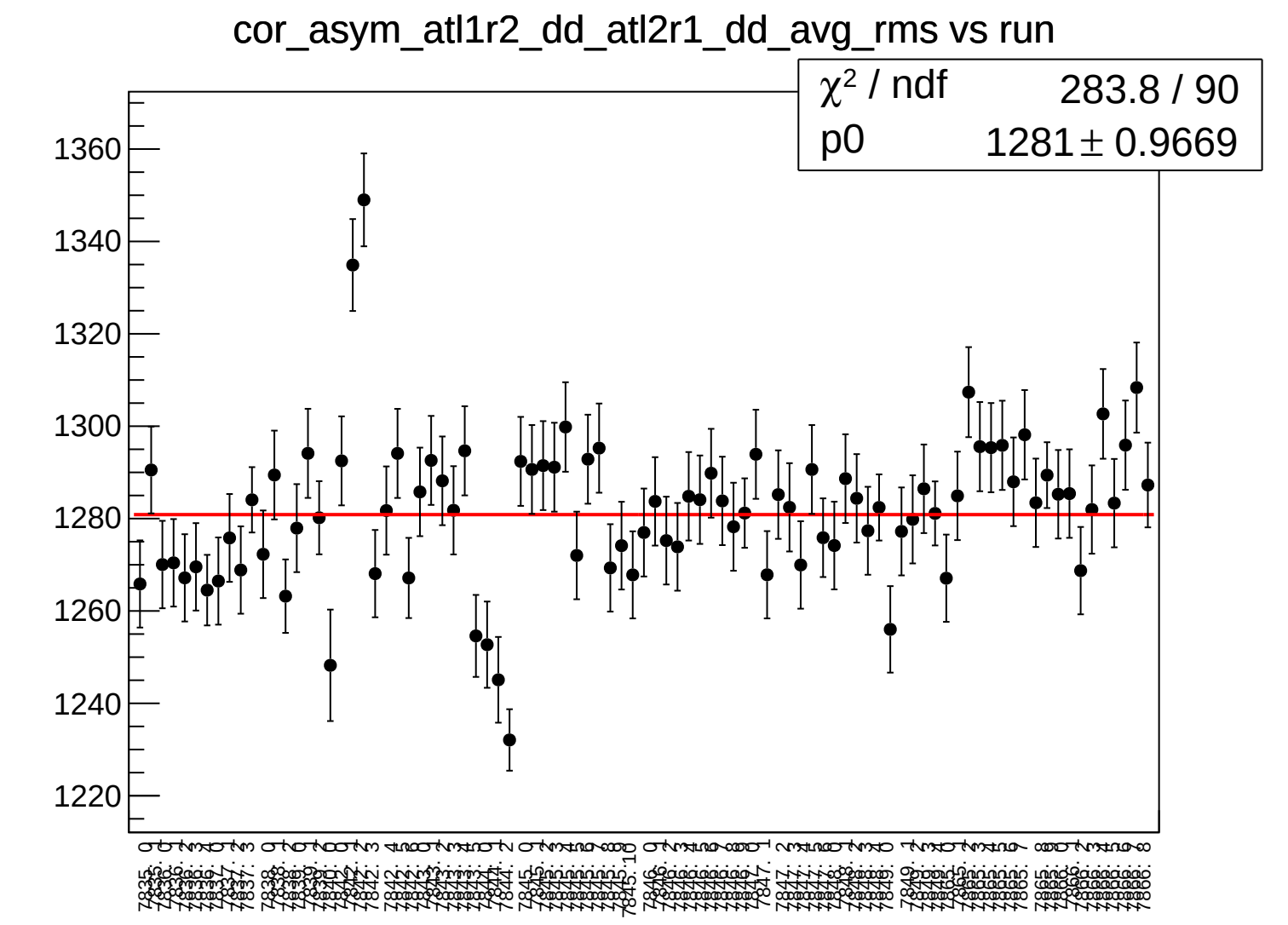

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 94.83 / 90
p0 2382 ± 1844
pull
Entries 91
Mean −26.91
Std Dev 0

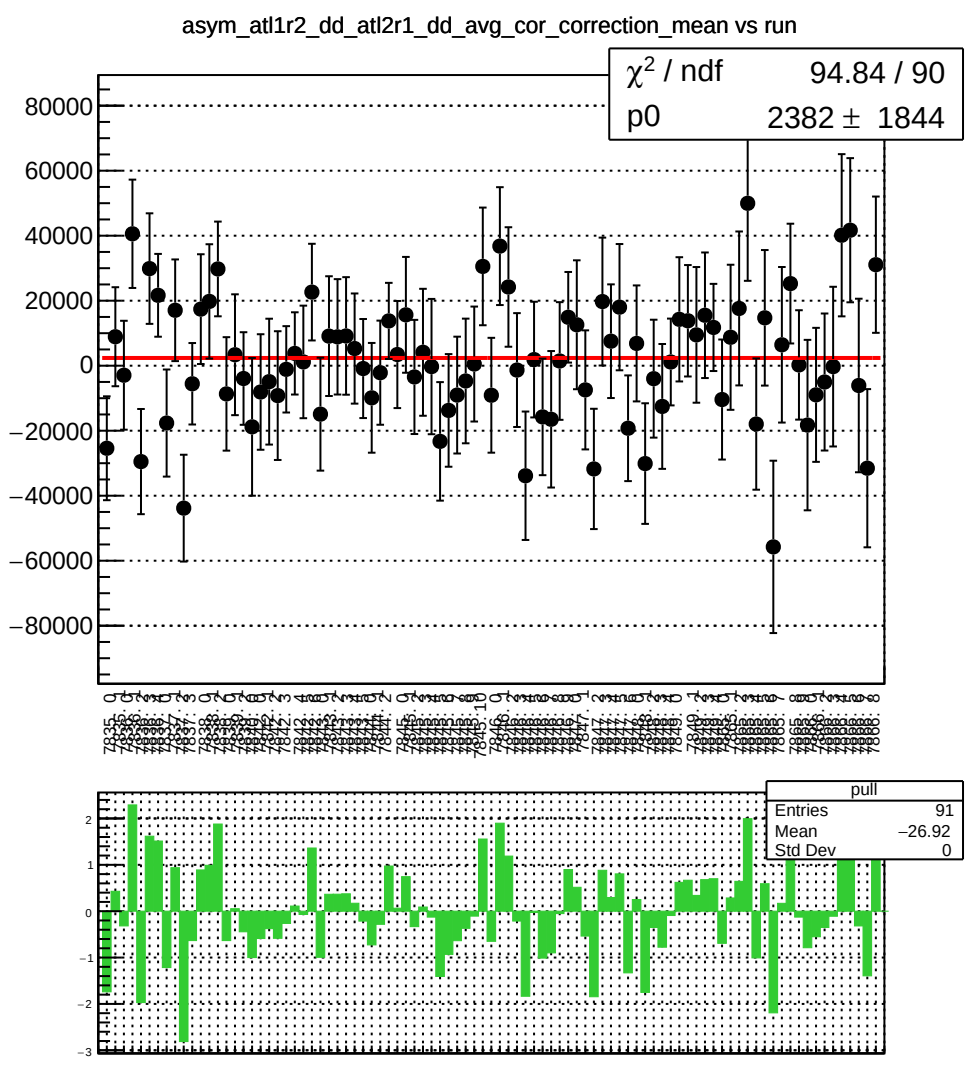

pull1D
Entries 91
Mean −0.01722
Std Dev 1.021

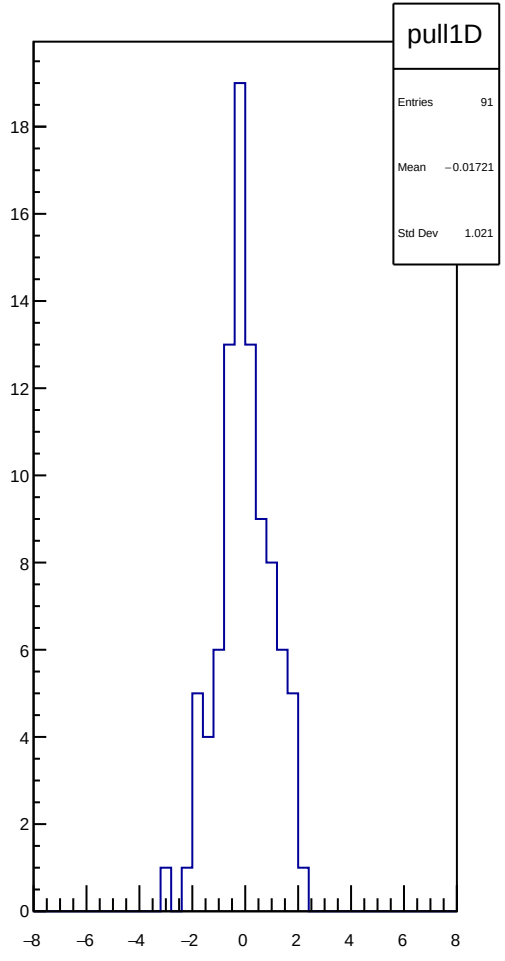

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2.98e+04 / 90
p0 1713 ± 1.304
2600
2400
2200
2000
1800
1600
1400
1200

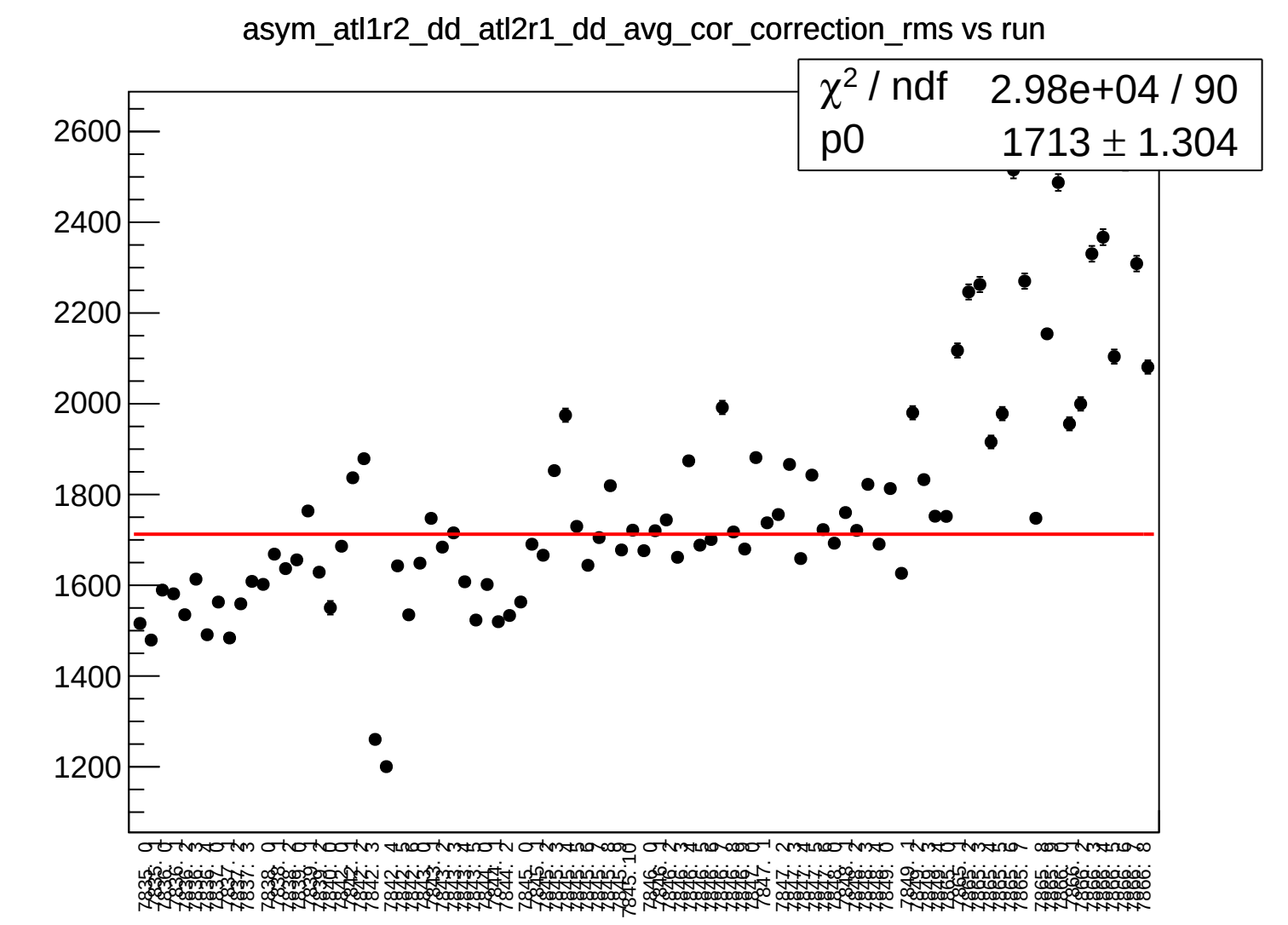

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 78.97 / 90
p0 −1501 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 258.1
Std Dev 0
2
1
0
−1
−2

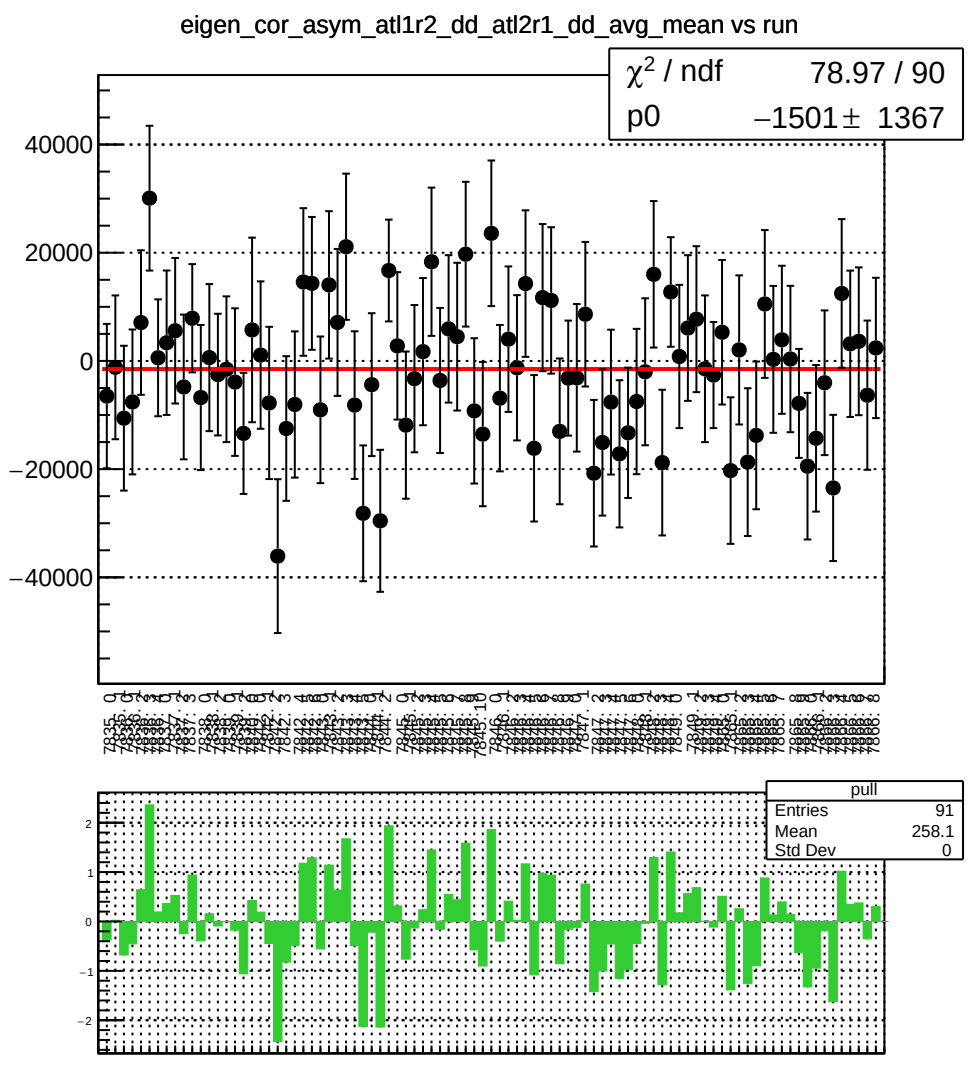

pull1D
Entries 91
Mean −0.0107
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

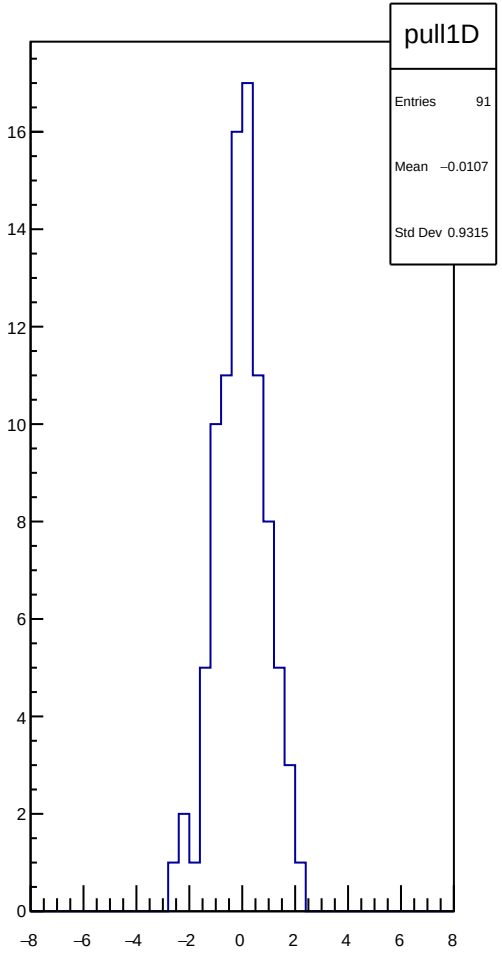

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 283.8 / 90
p0 1281 ± 0.9669
1360
1340
1320
1300
1280
1260
1240
1220

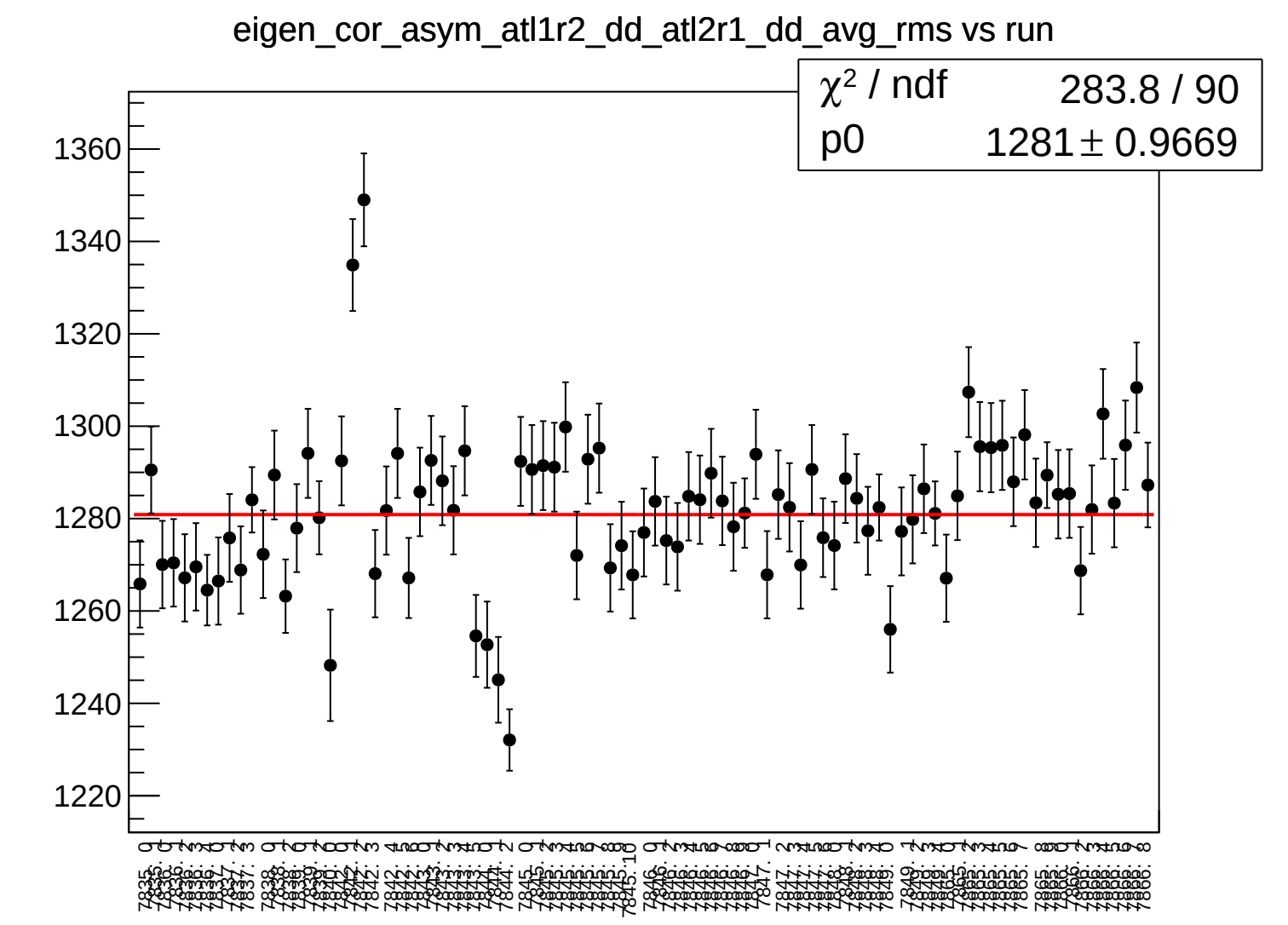

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 94.84 / 90
p0 2382 ± 1844
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −26.92
Std Dev 0
2
1
0
−1
−2
−3

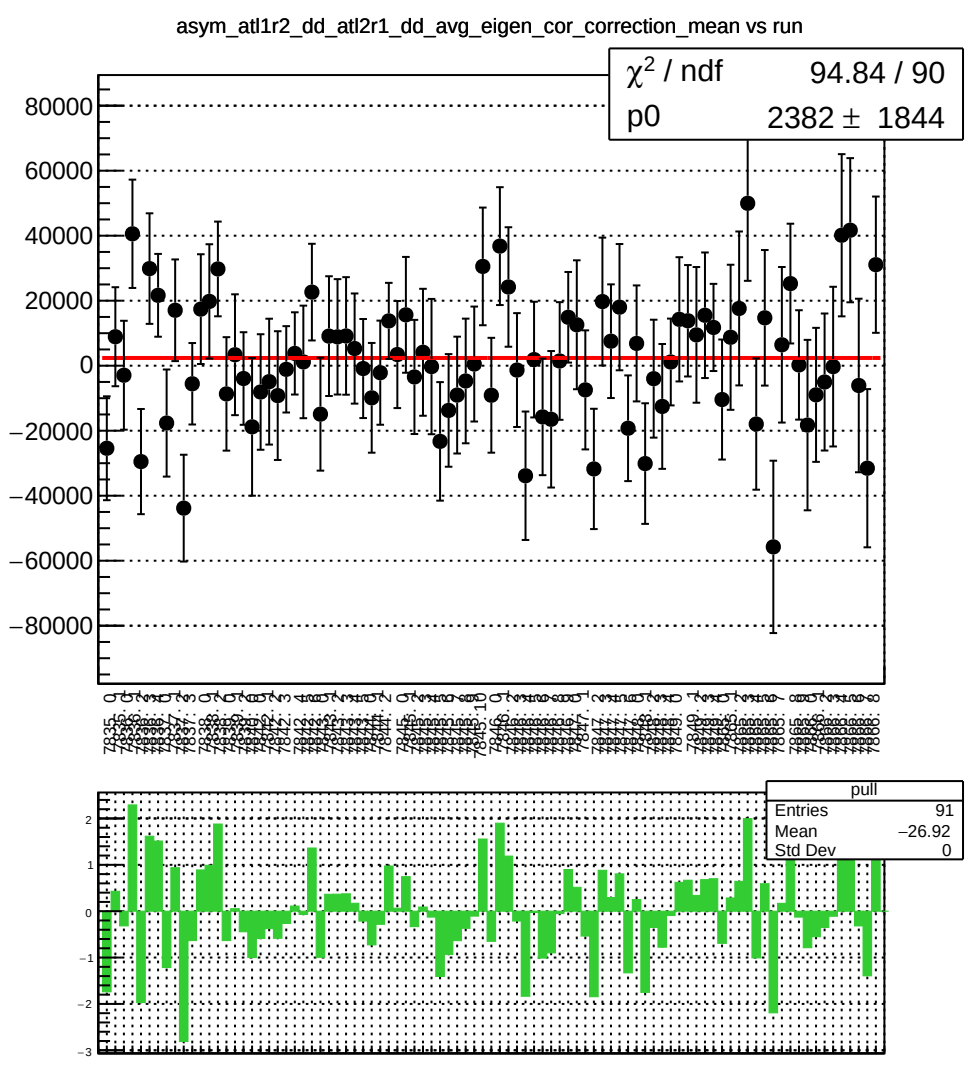

pull1D
Entries 91
Mean −0.01721
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

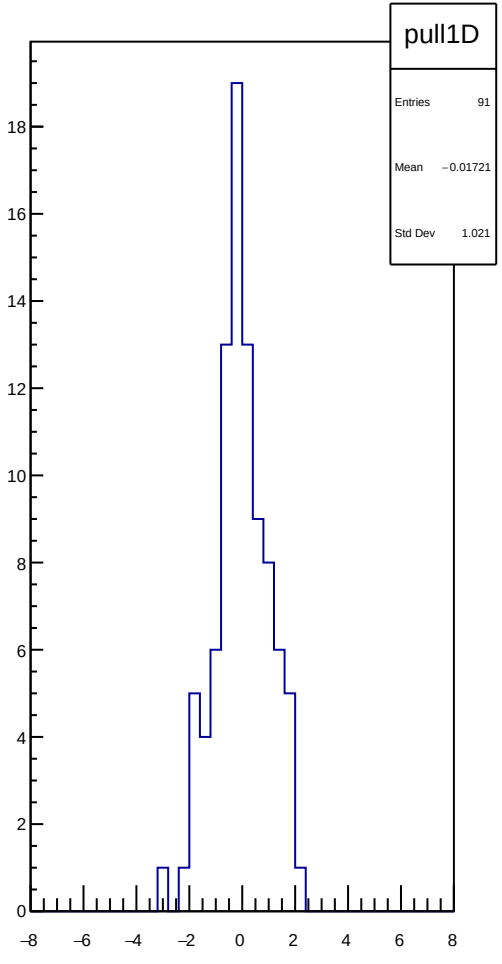

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2.98e+04 / 90
p0 1713 ± 1.304
2600
2400
2200
2000
1800
1600
1400
1200

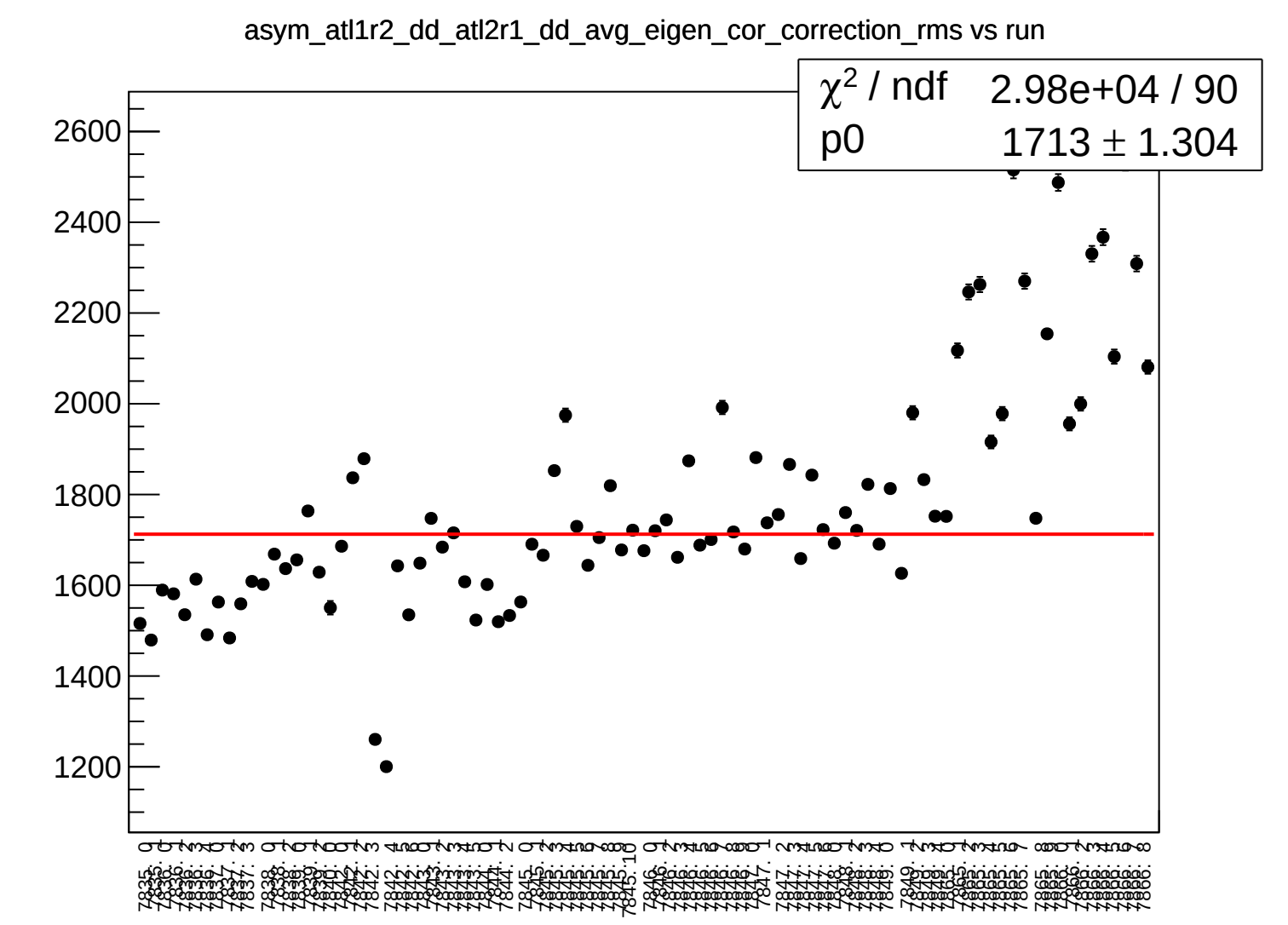

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 78.97 / 90
p0 −1501 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 258.1
Std Dev 0
2
1
0
−1
−2

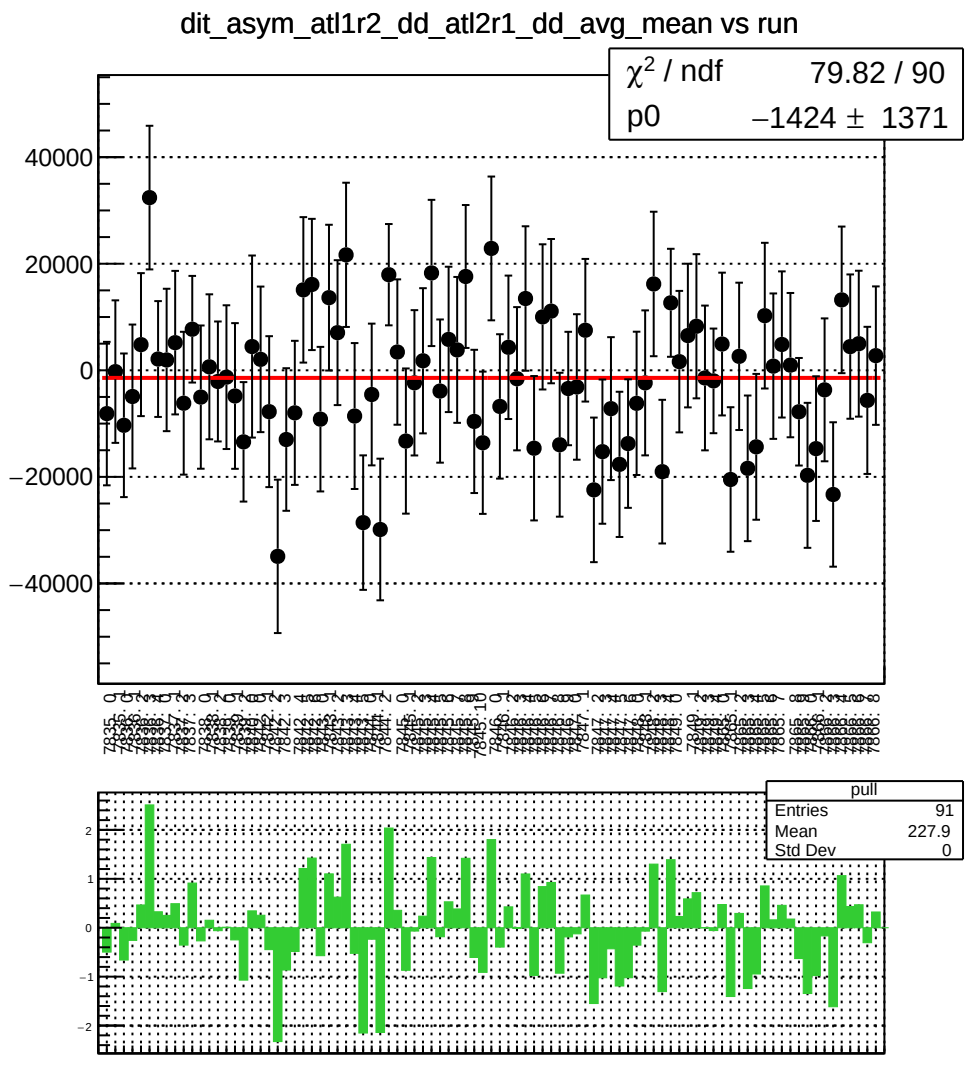

pull1D
Entries 91
Mean −0.0107
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

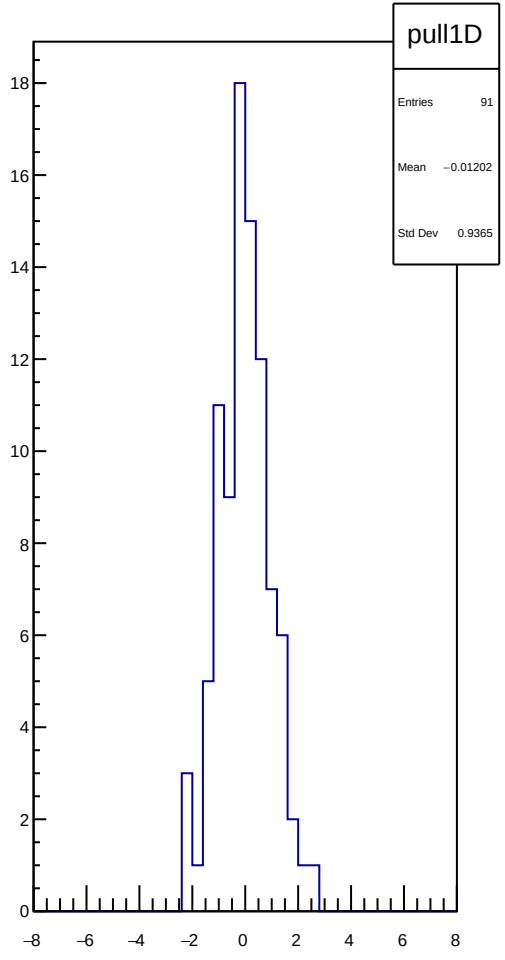

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 283.8 / 90
p0 1281 ± 0.9669
1360
1340
1320
1300
1280
1260
1240
1220

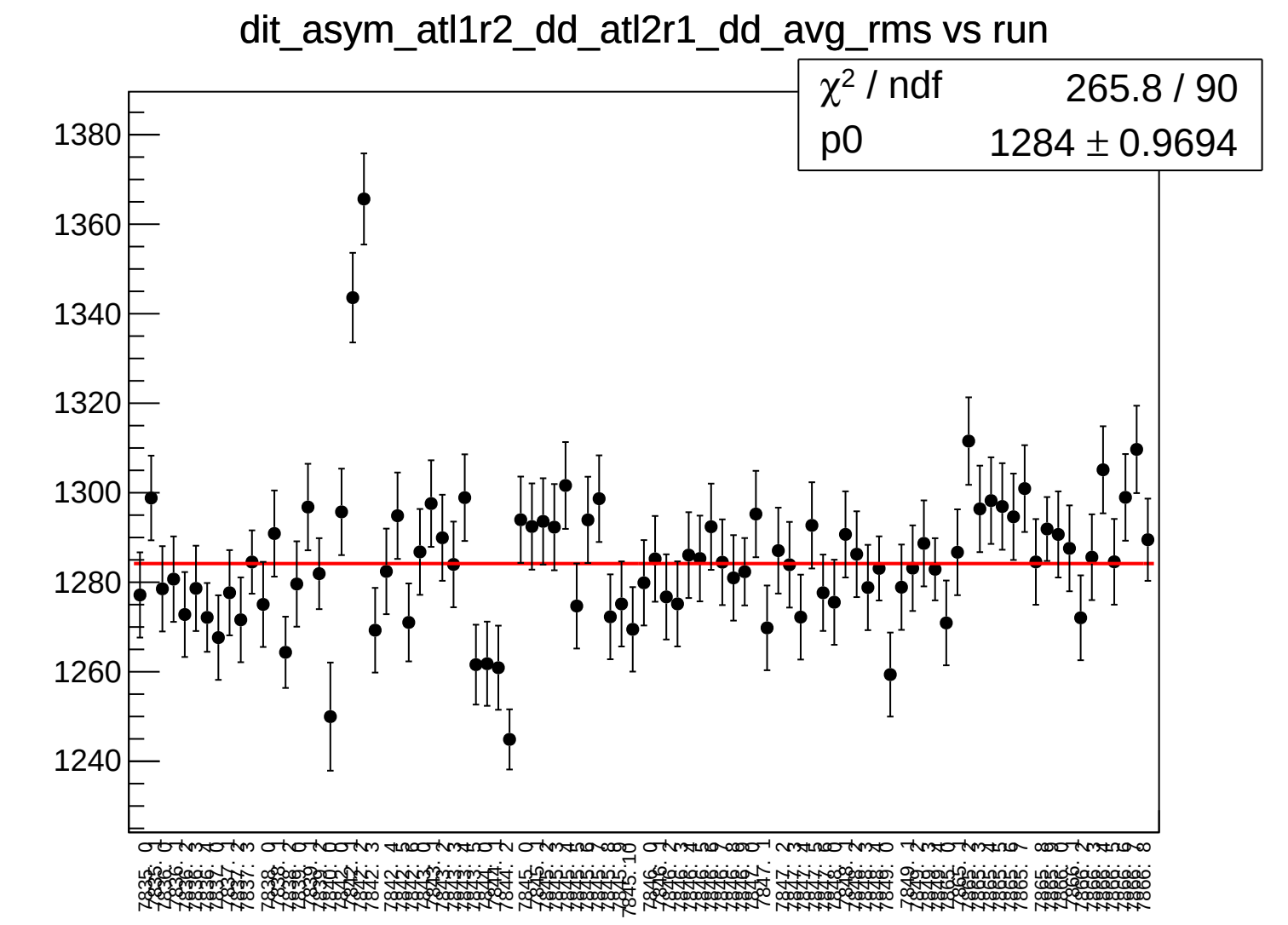

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.84 / 90
p0 2382 ± 1844
pull
Entries 91
Mean −26.92
Std Dev 0

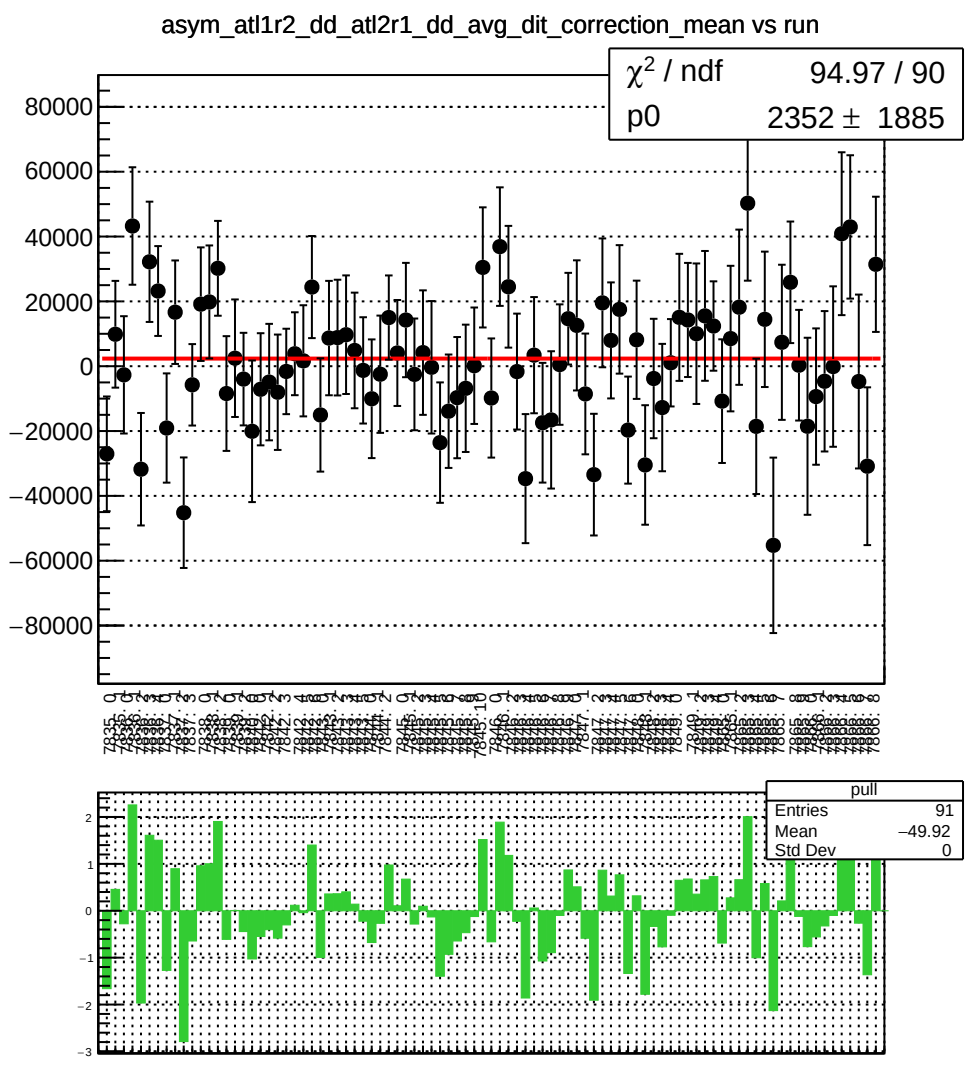

pull1D
Entries 91
Mean −0.01721
Std Dev 1.021

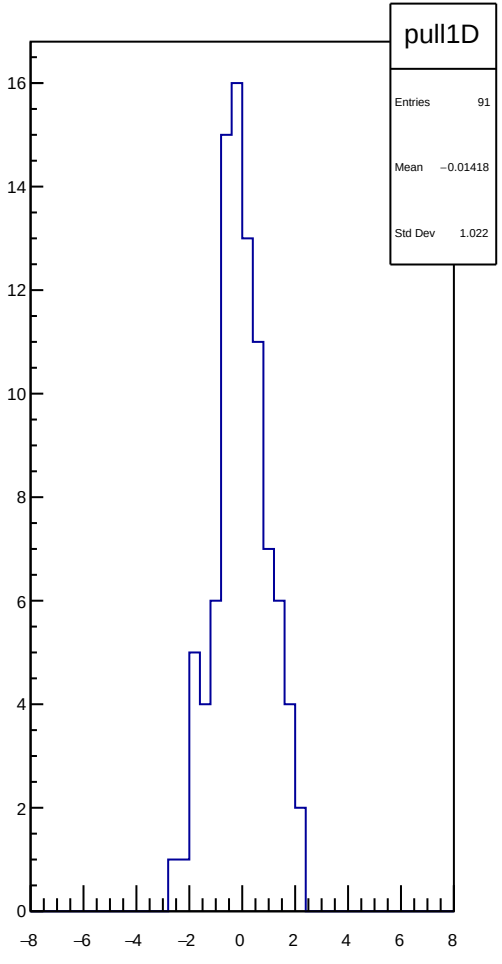

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.98e+04 / 90
p0 1713 ± 1.304
2600
2400
2200
2000
1800
1600
1400
1200

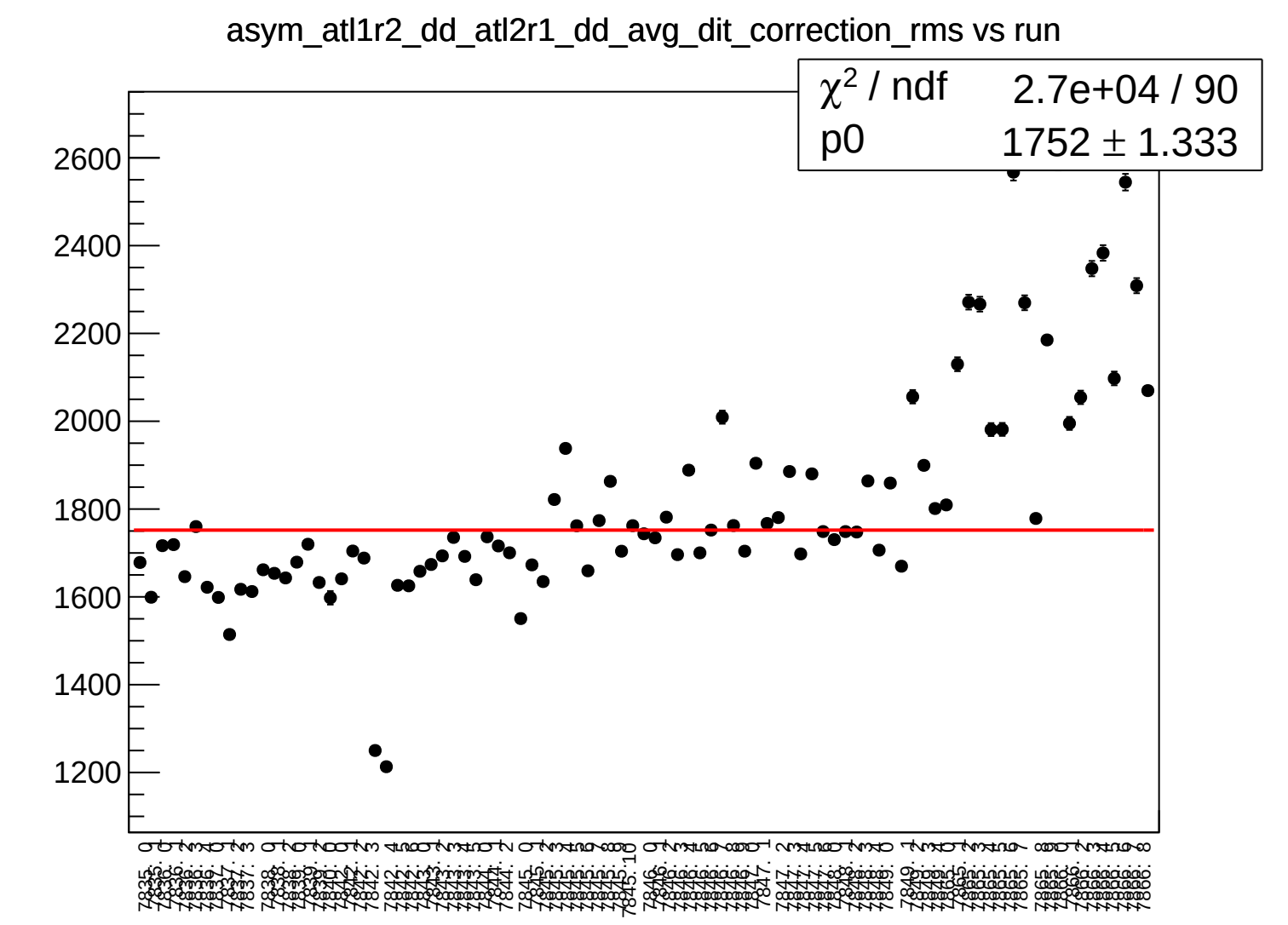

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.82 / 90
p0 −1424 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 227.9
Std Dev 0
2
1
0
−1
−2

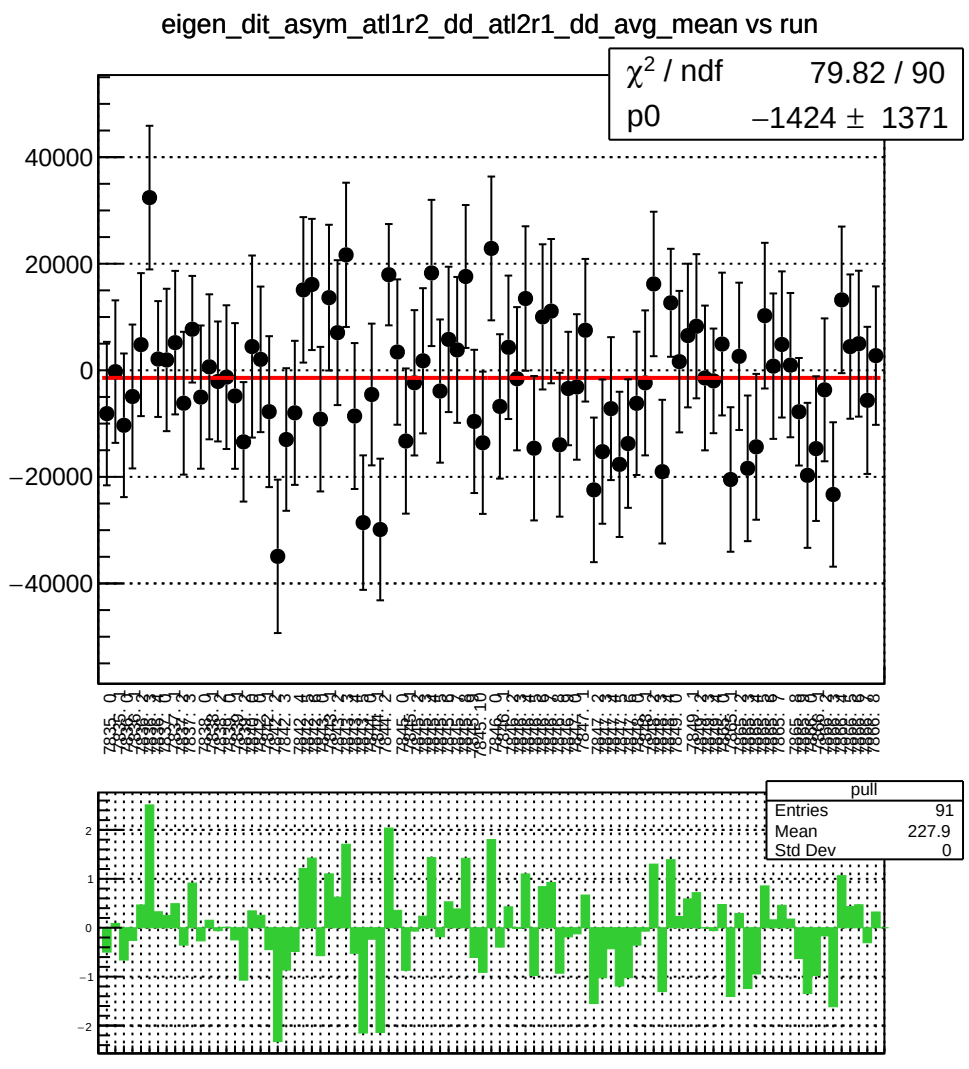

pull1D
Entries 91
Mean −0.01202
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

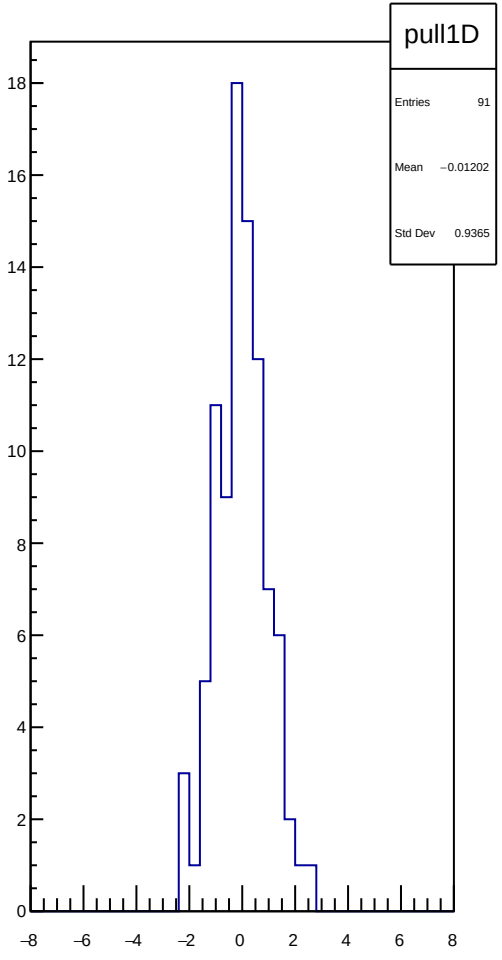

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 265.8 / 90
p0 1284 ± 0.9694
1380
1360
1340
1320
1300
1280
1260
1240

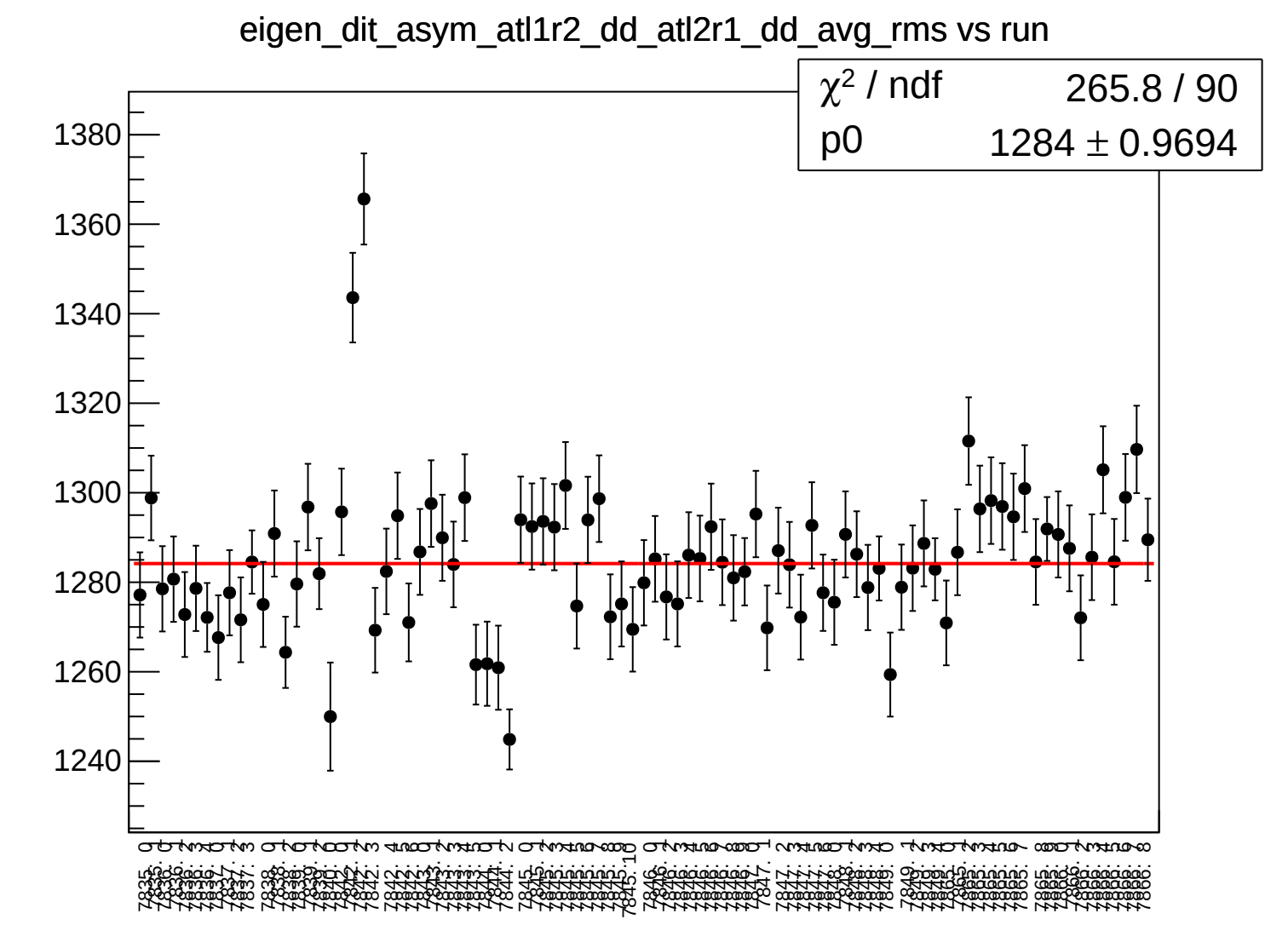

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 94.97 / 90
p0 2352 ± 1885
pull
Entries 91
Mean −49.92
Std Dev 0

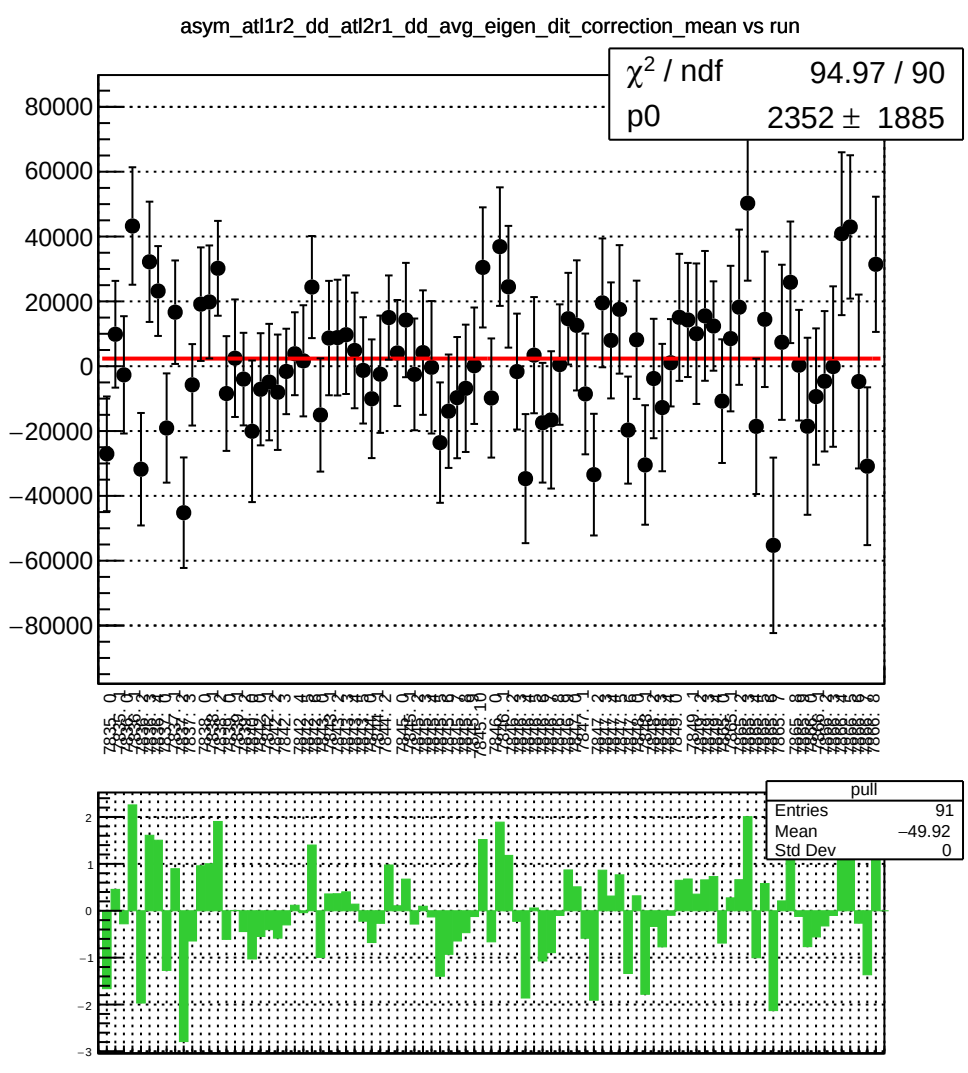

pull1D
Entries 91
Mean −0.01418
Std Dev 1.022

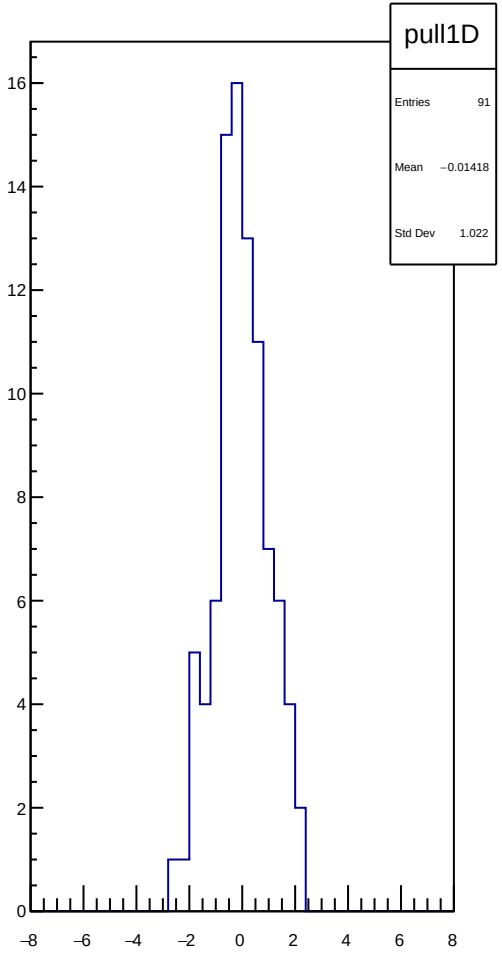

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.7e+04 / 90
p0 1752 ± 1.333
2600
2400
2200
2000
1800
1600
1400
1200

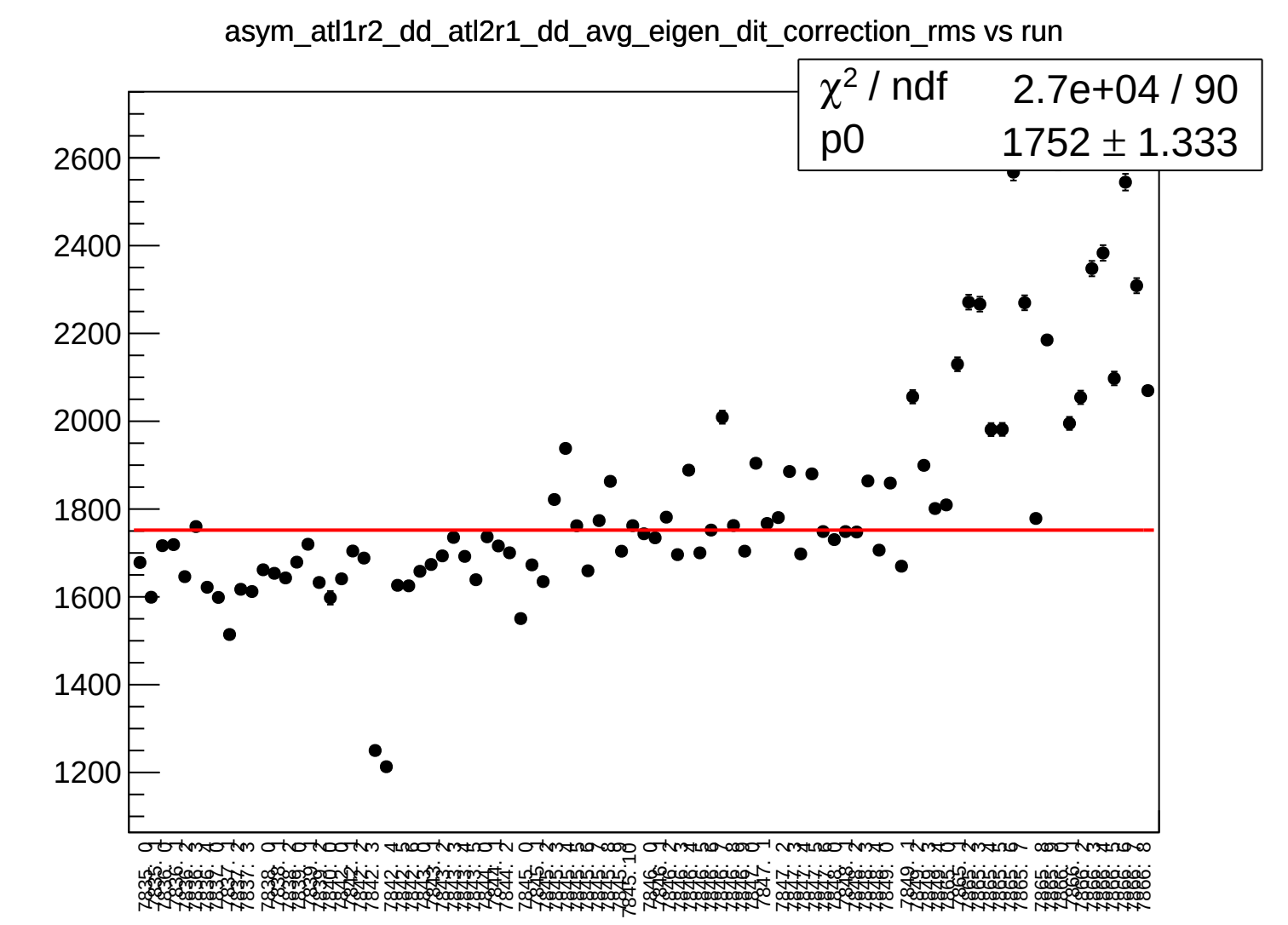

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.82 / 90
p0 −1424 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 227.9
Std Dev 0
2
1
0
−1
−2

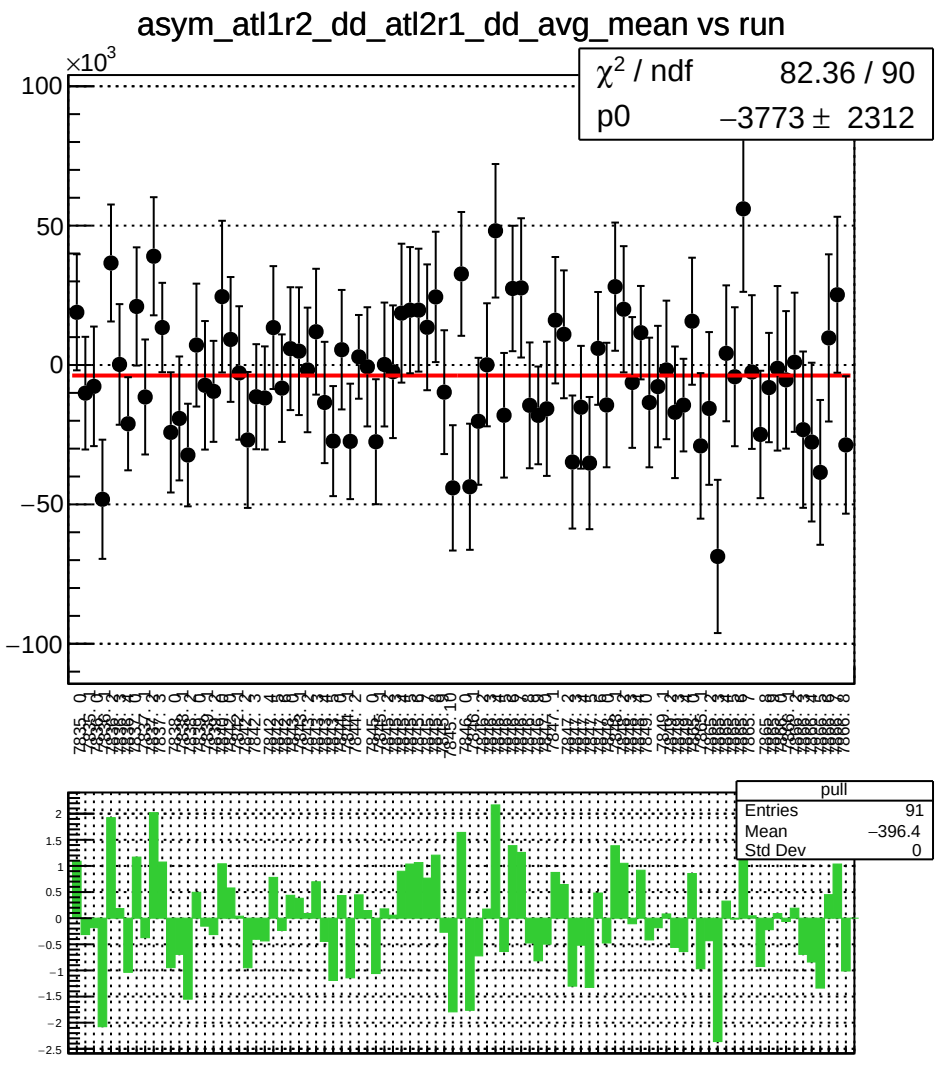

pull1D
Entries 91
Mean −0.01202
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

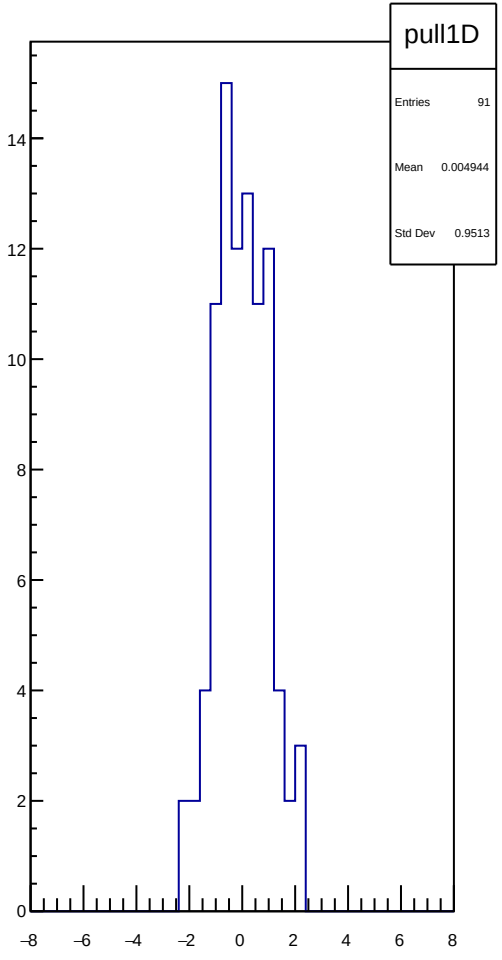

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 265.8 / 90
p0 1284 ± 0.9694
1380
1360
1340
1320
1300
1280
1260
1240

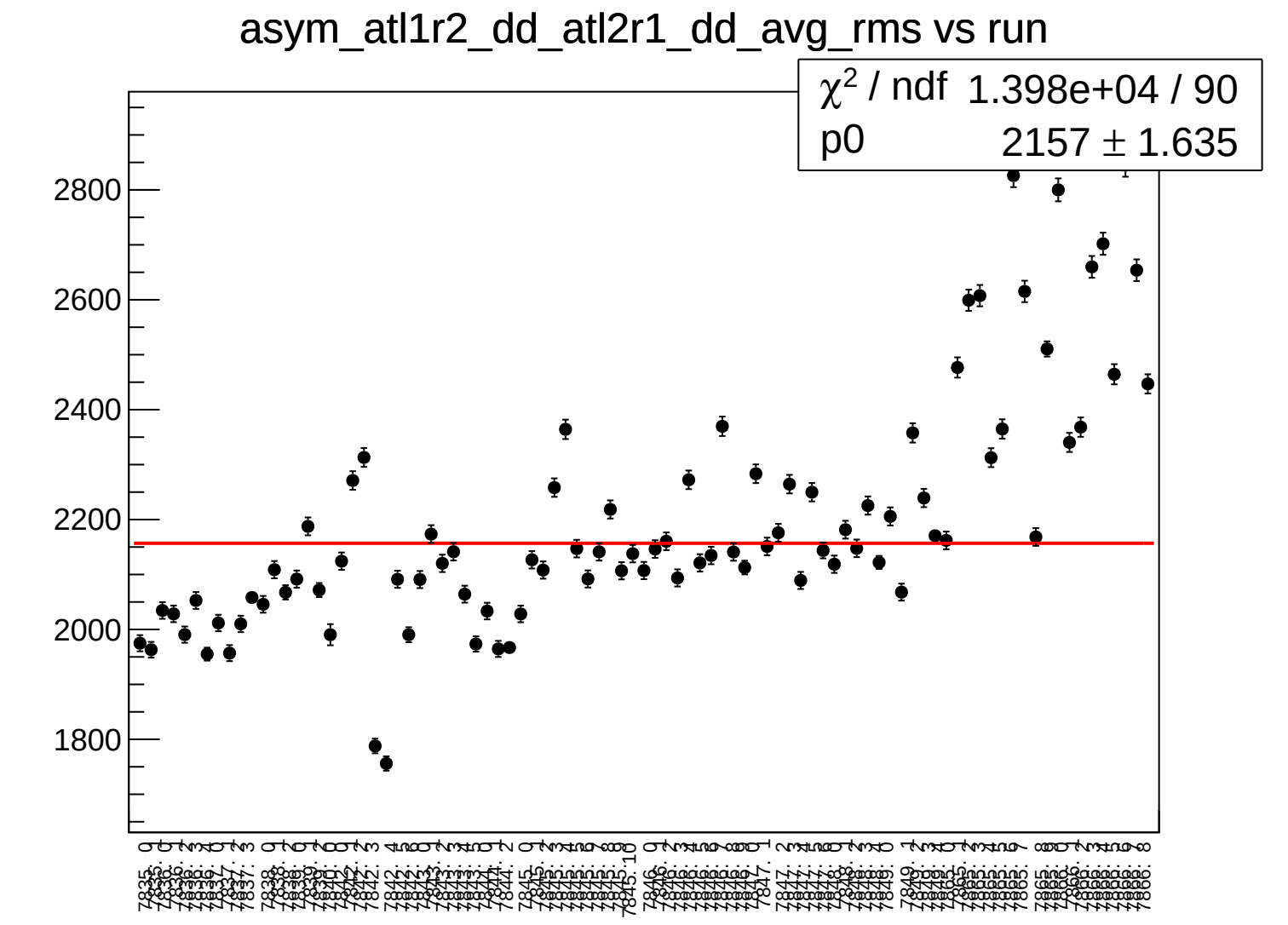

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.97 / 90
p0 2352 ± 1885
pull
Entries 91
Mean −49.92
Std Dev 0

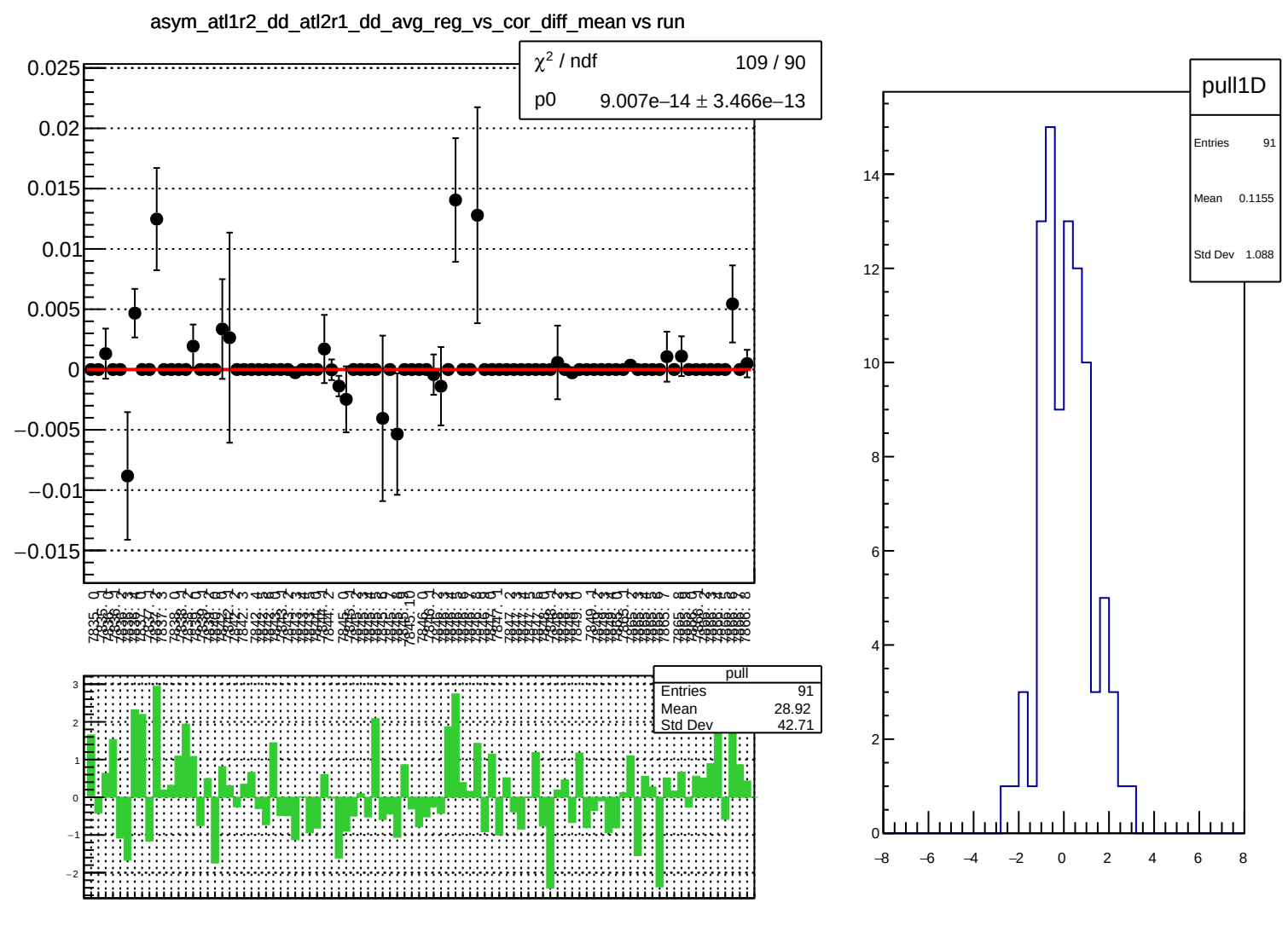

pull1D
Entries 91
Mean −0.01418
Std Dev 1.022

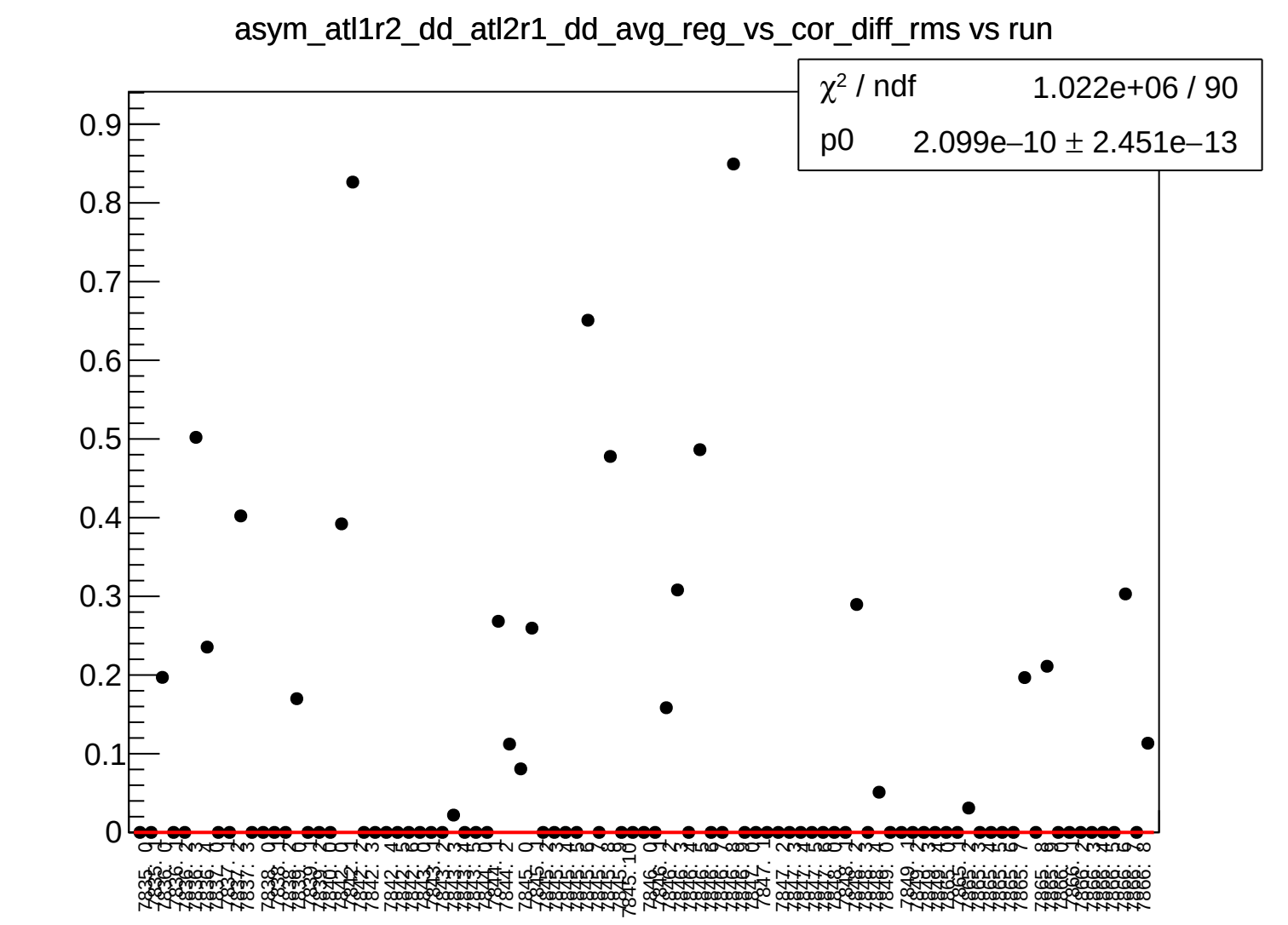

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.7e+04 / 90
p0 1752 ± 1.333
2600
2400
2200
2000
1800
1600
1400
1200

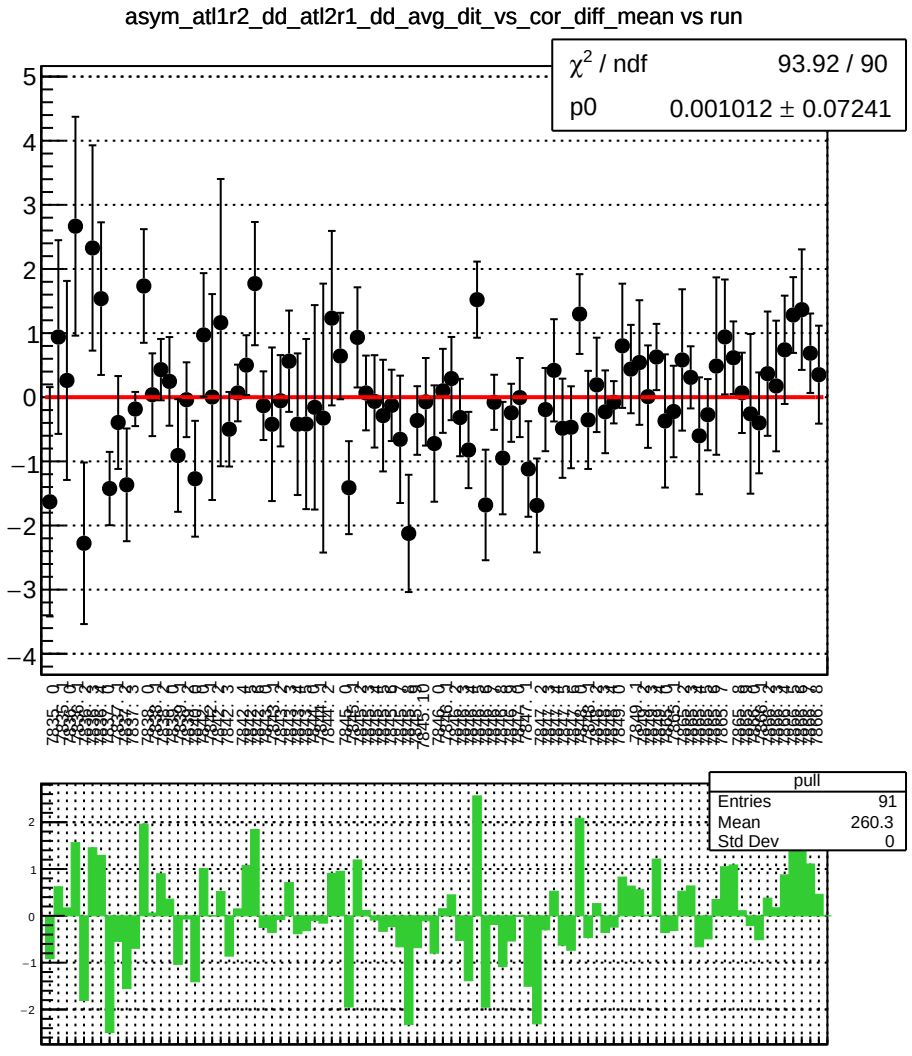

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 82.36 / 90
p0 −3773 ± 2312
pull
Entries 91
Mean −396.4
Std Dev 0

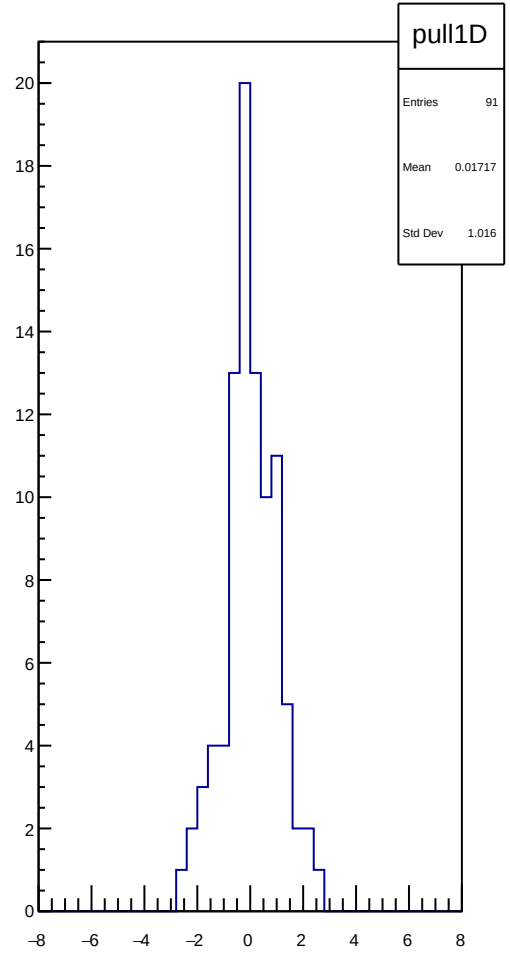

pull1D
Entries 91
Mean 0.004944
Std Dev 0.9513

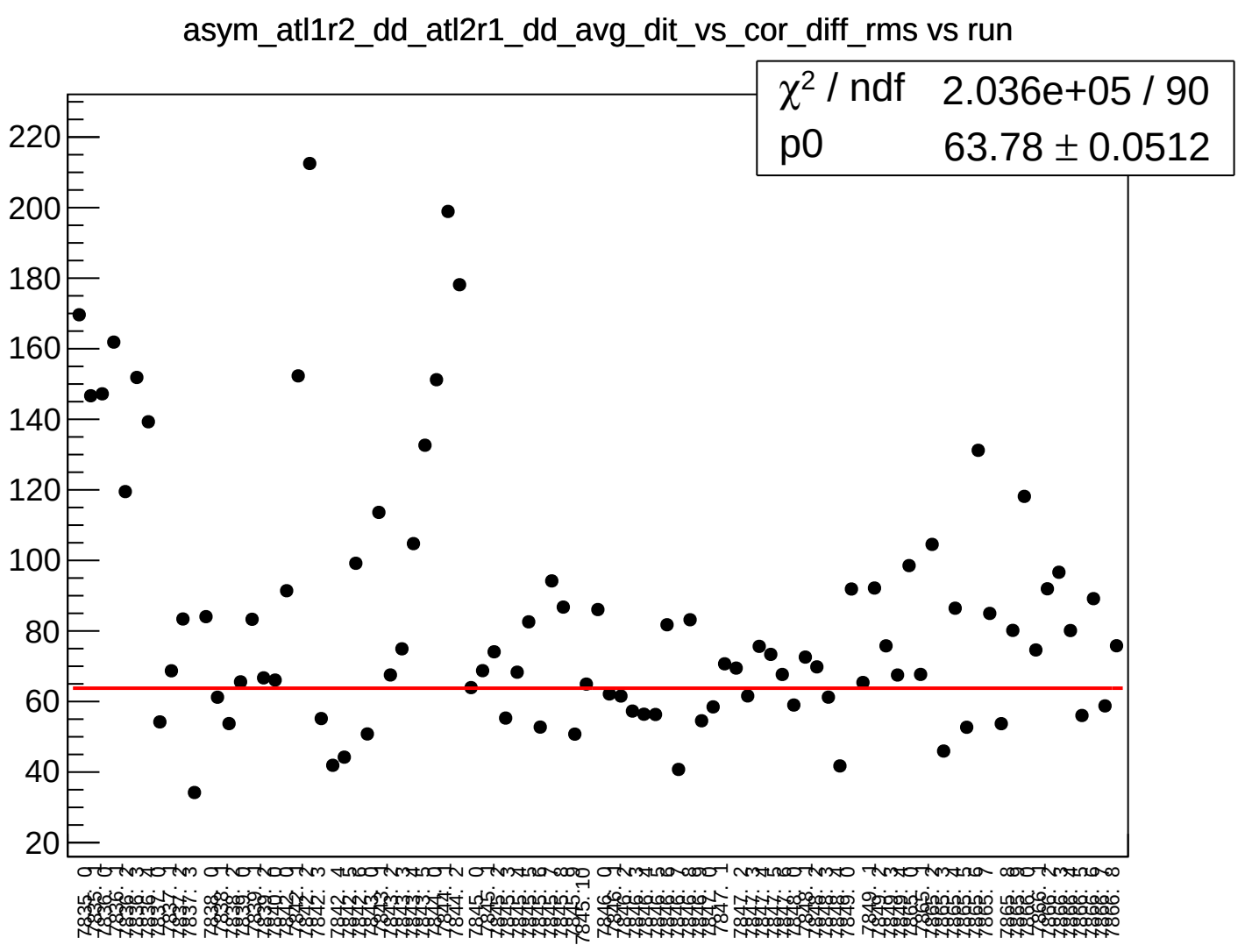

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.398e+04 / 90
p0 2157 ± 1.635
2800
2600
2400
2200
2000
1800

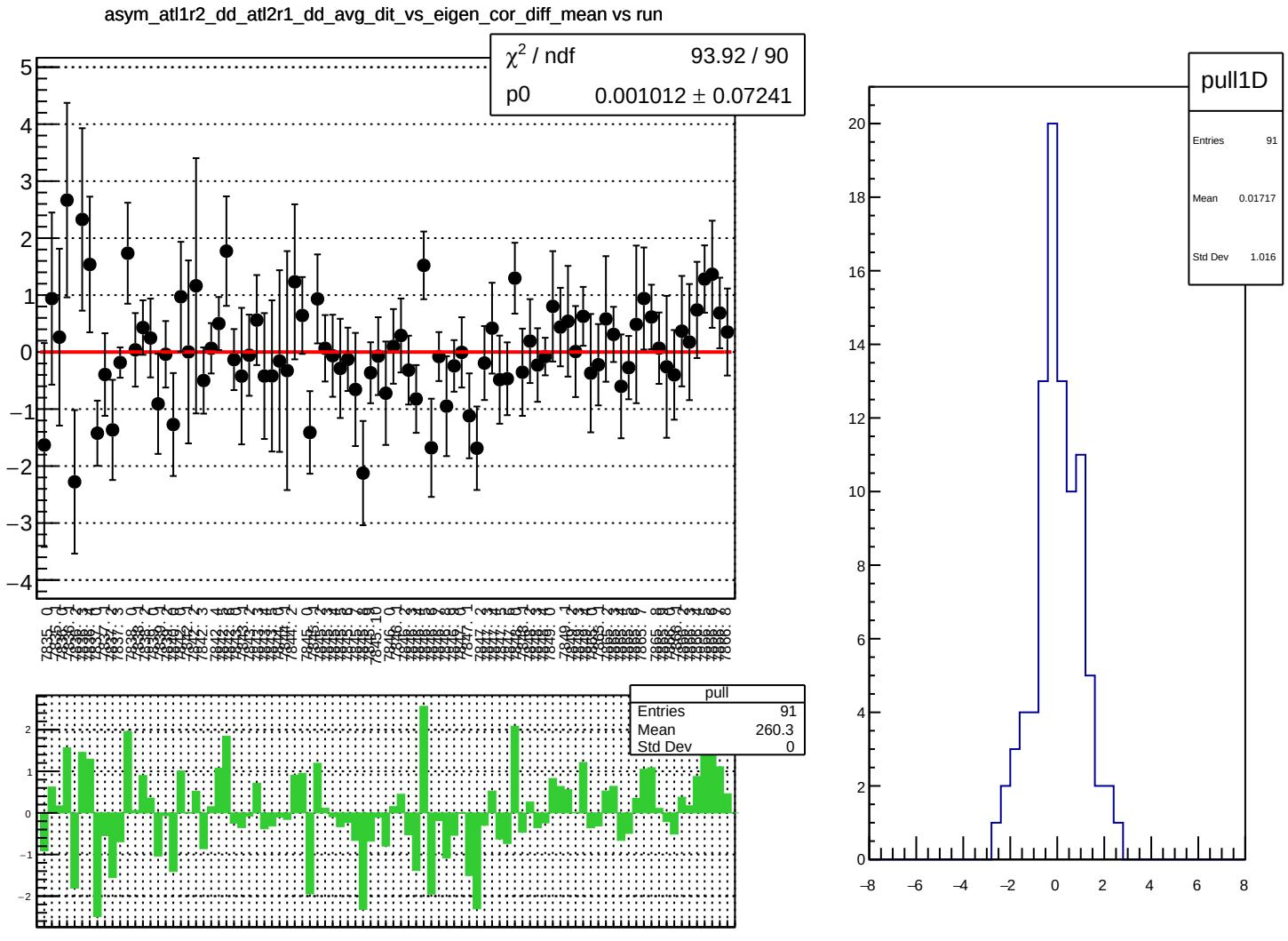

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 90
p0 9.007e−14 ± 3.466e−13
pull
Entries 91
Mean 28.92
Std Dev 42.71
pull1D
Entries 91
Mean 0.1155
Std Dev 1.088

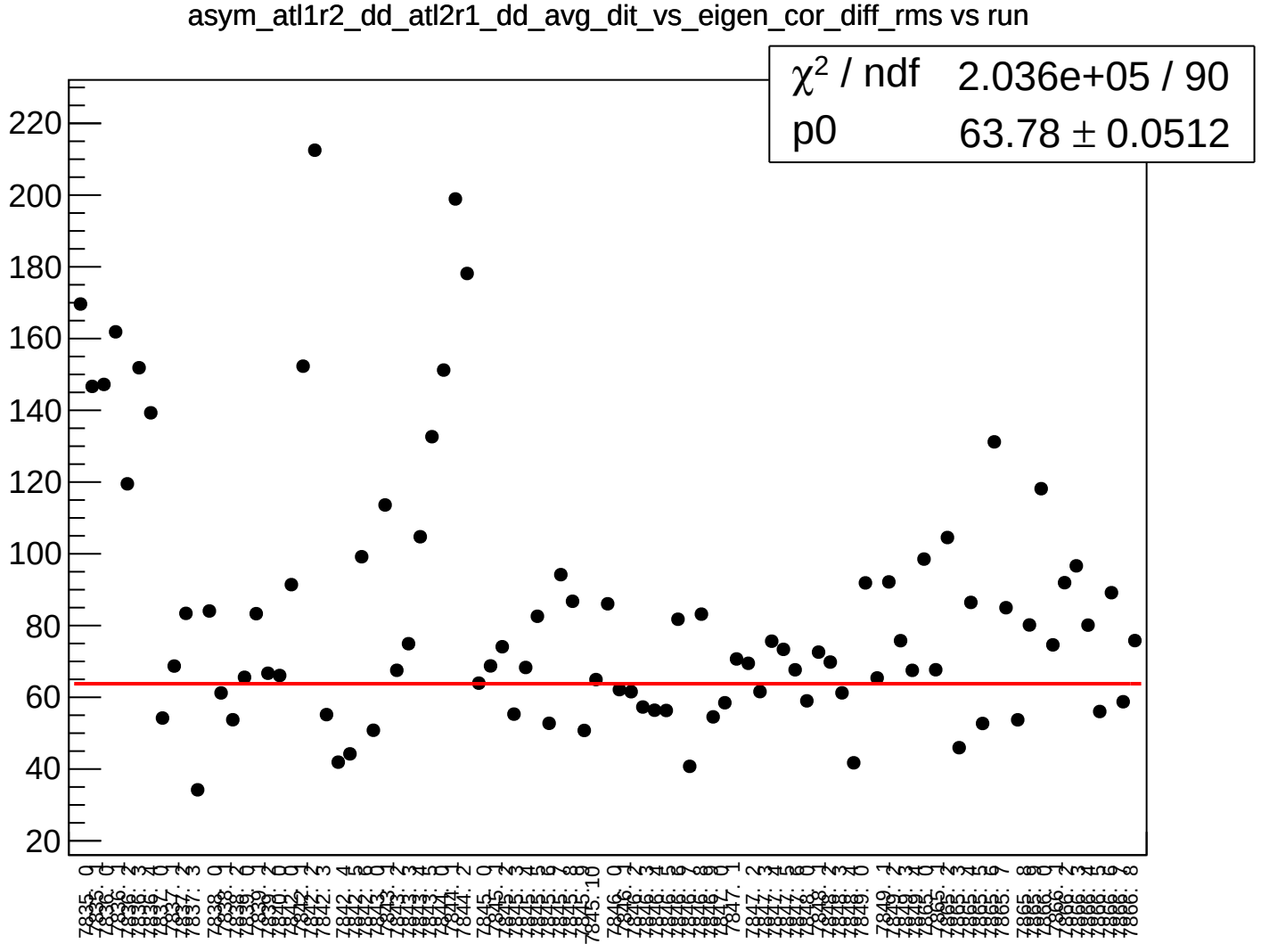

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 90
p0 2.099e−10 ± 2.451e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

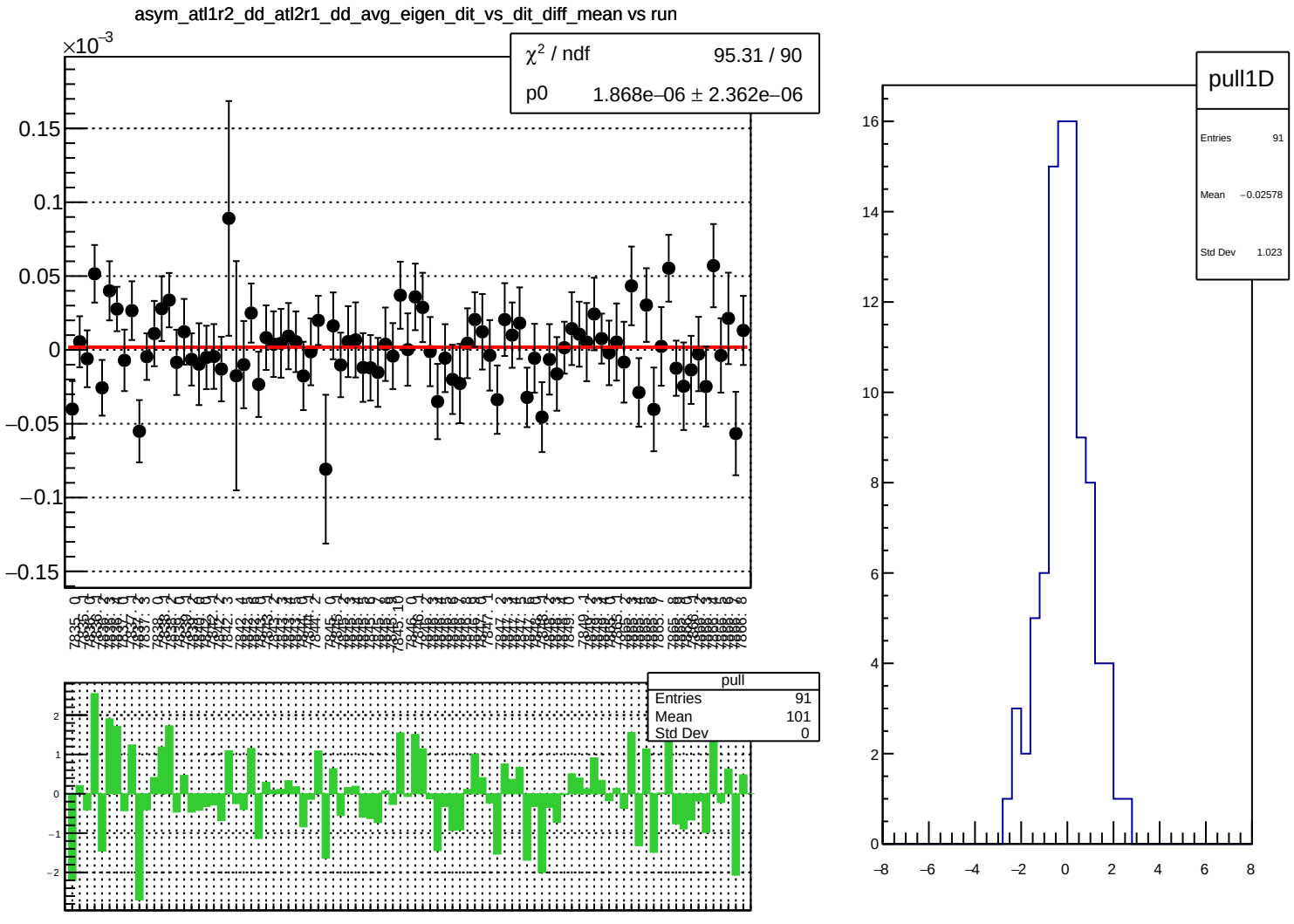

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001012 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0

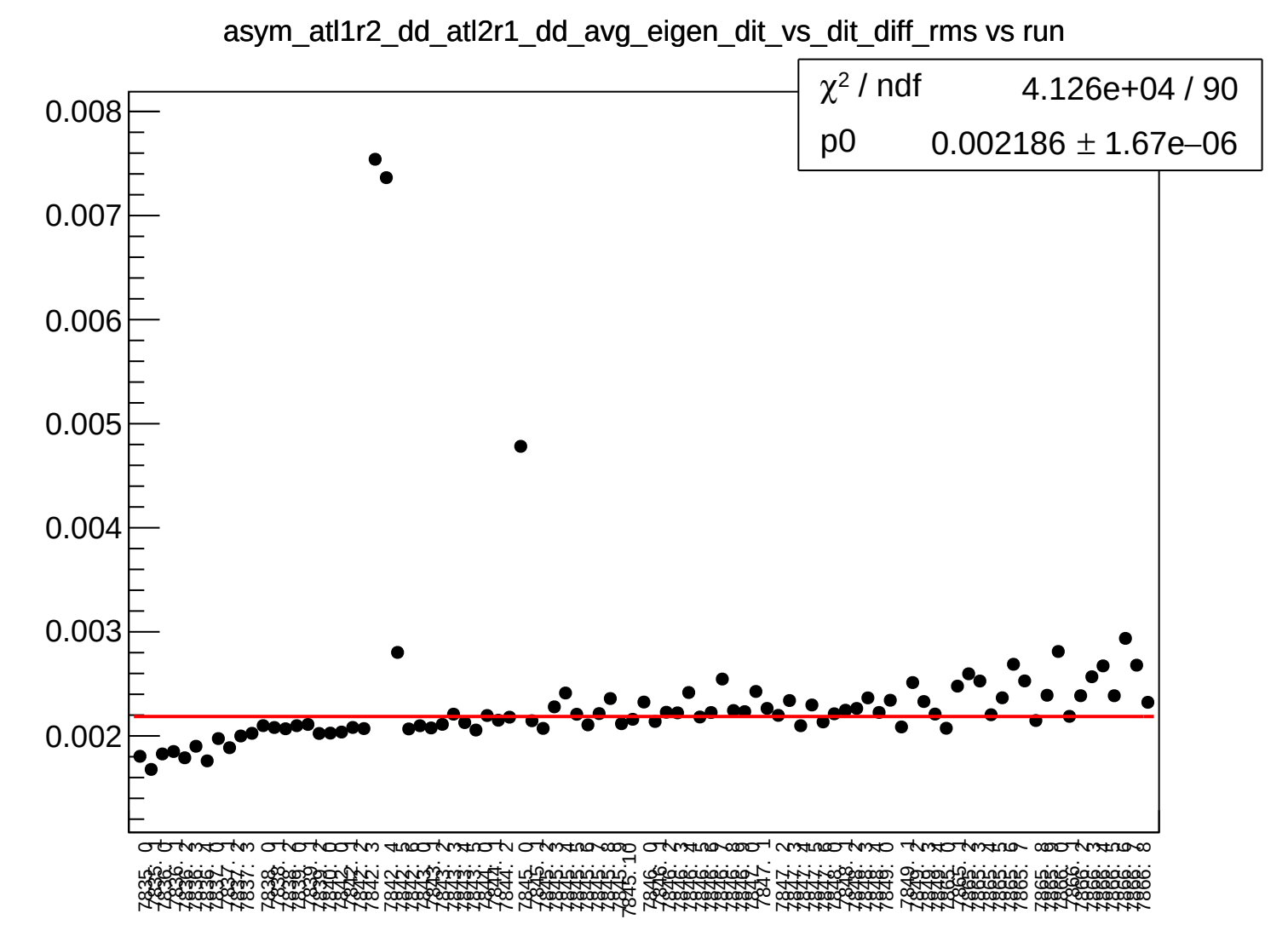

pull1D
Entries 91
Mean 0.01717
Std Dev 1.016

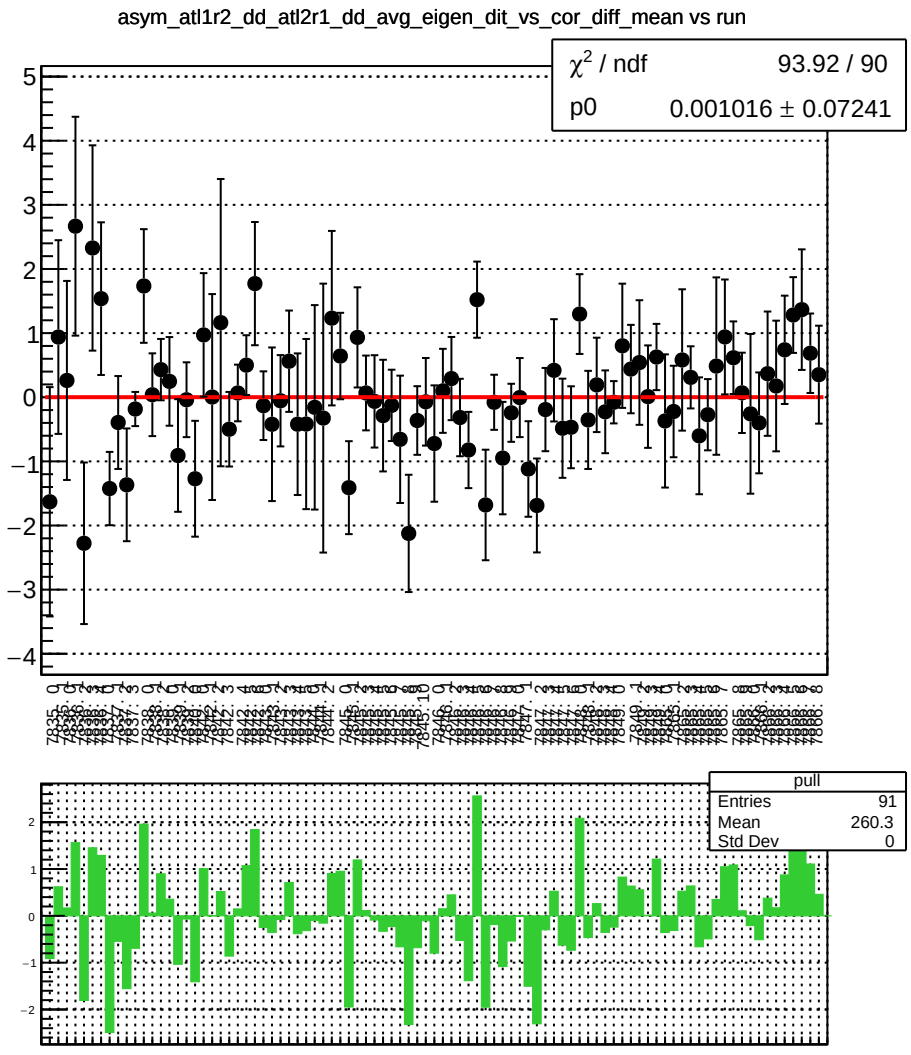

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

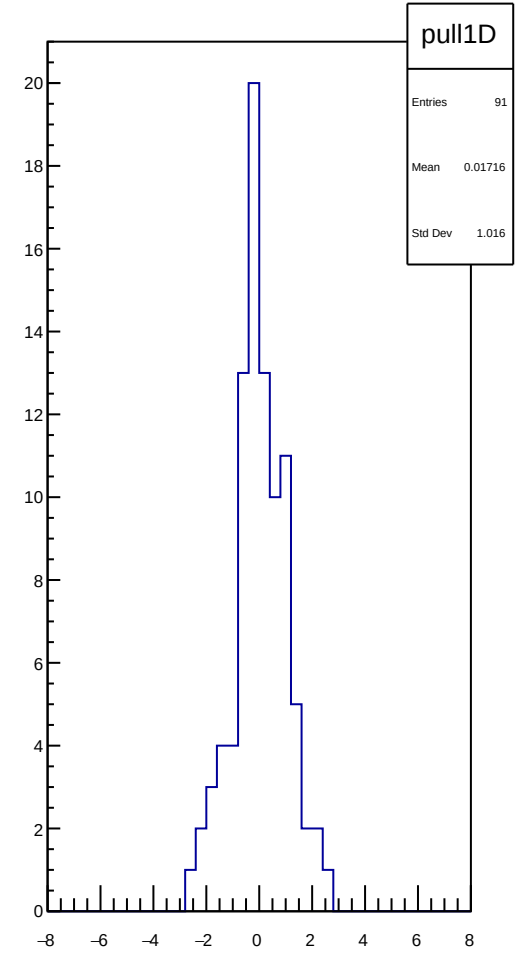

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001012 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0
pull1D
Entries 91
Mean 0.01717
Std Dev 1.016

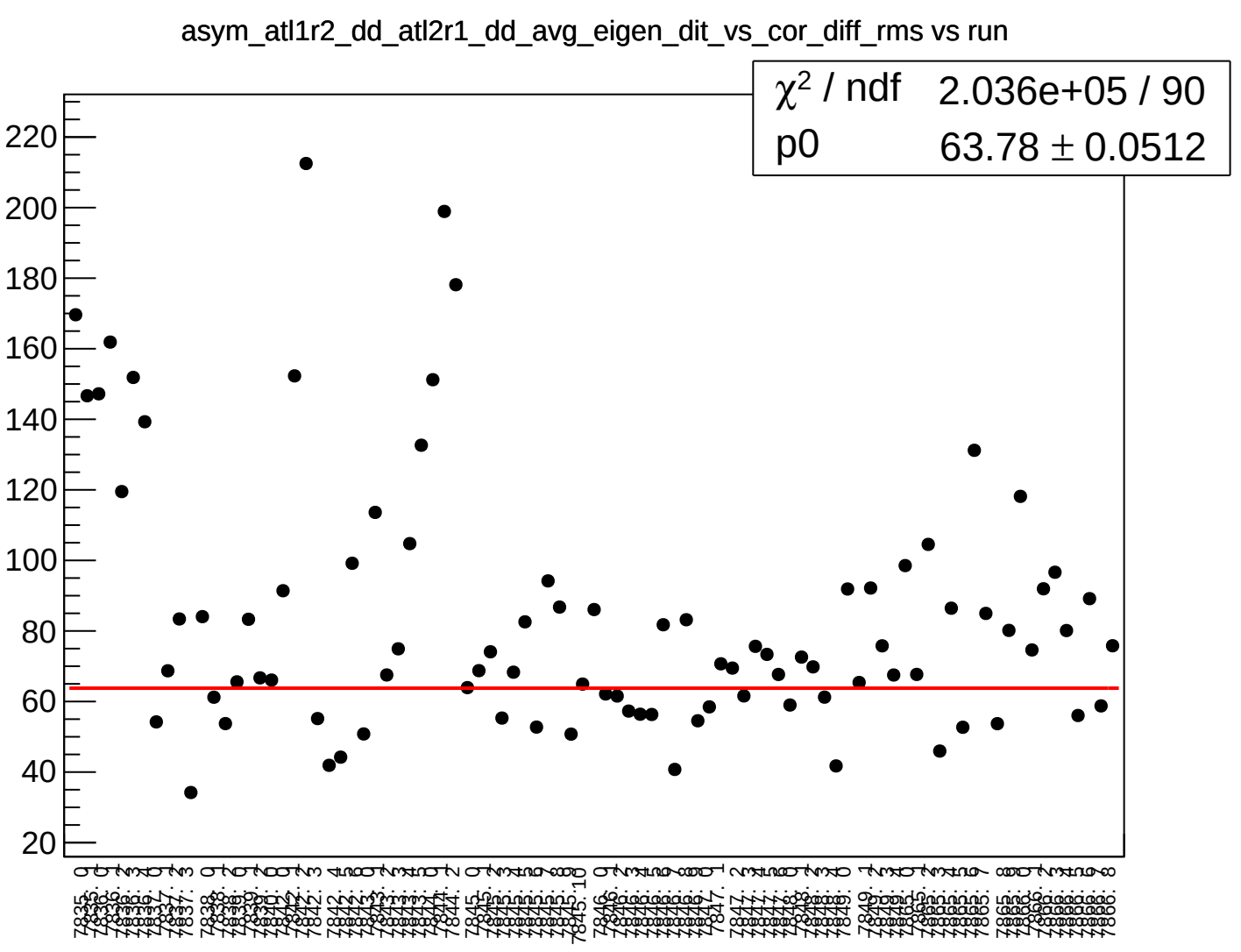

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

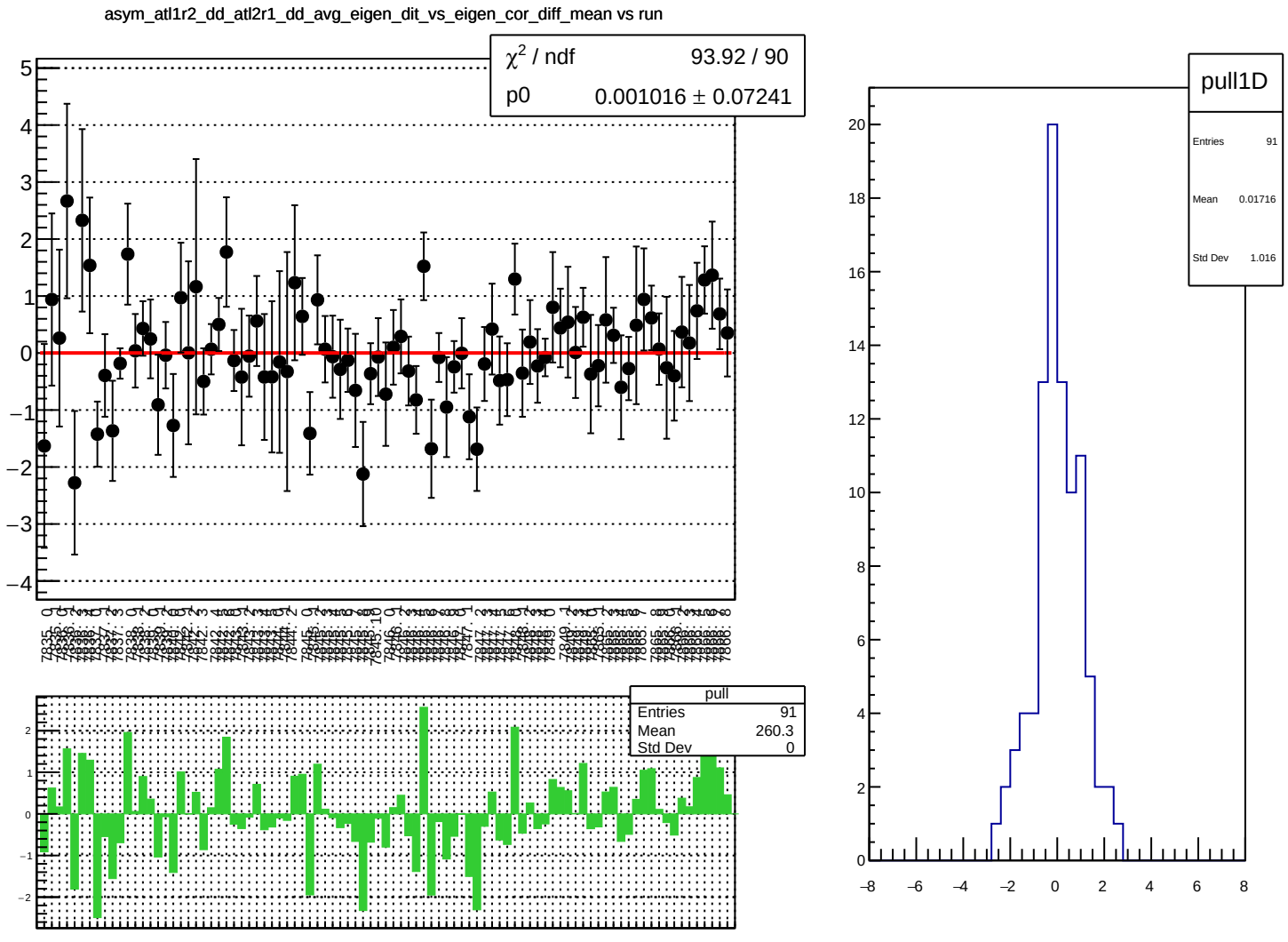

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.31 / 90
p0 1.868e−06 ± 2.362e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 101
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02578
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

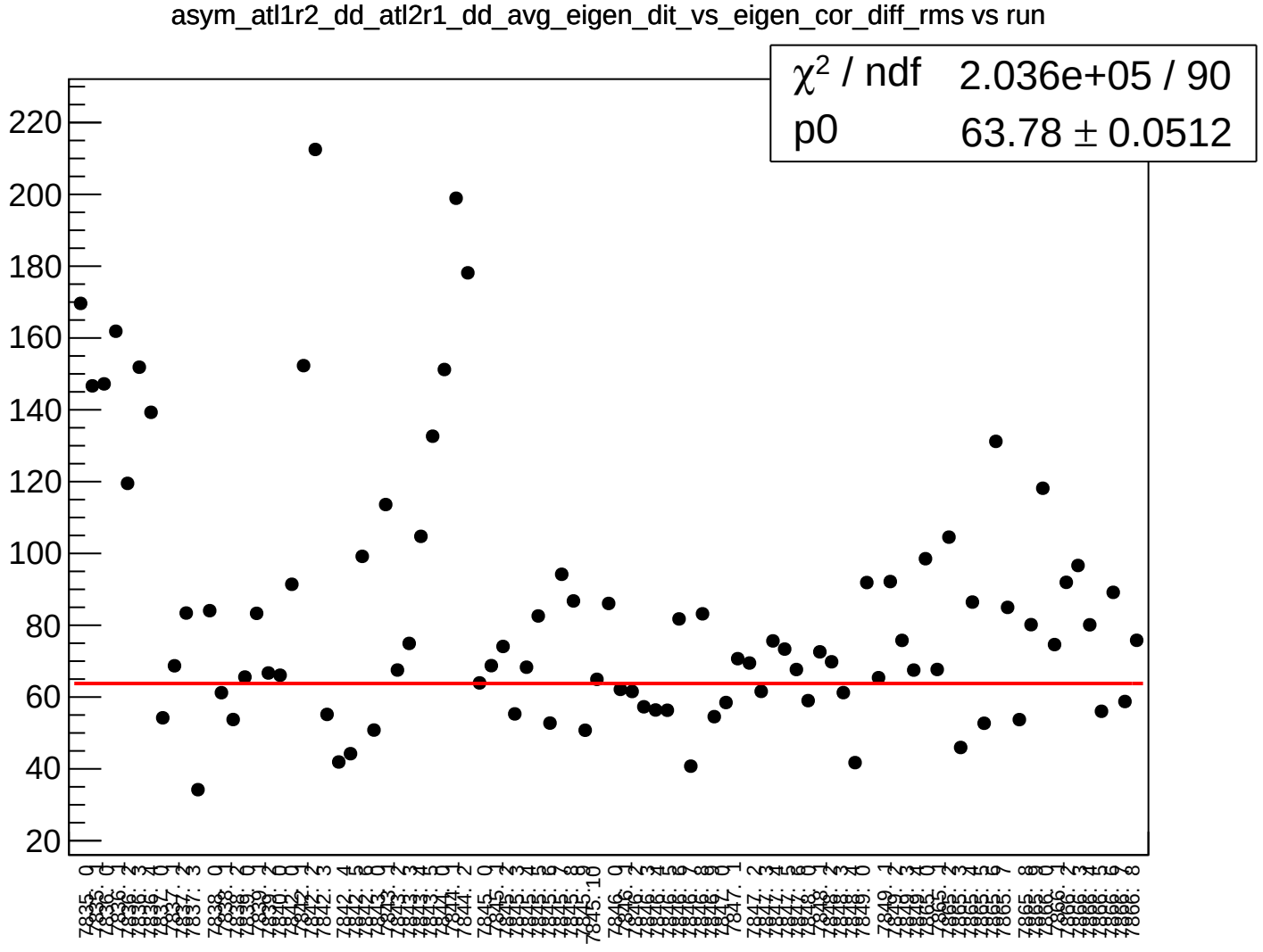

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.126e+04 / 90
p0 0.002186 ± 1.67e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

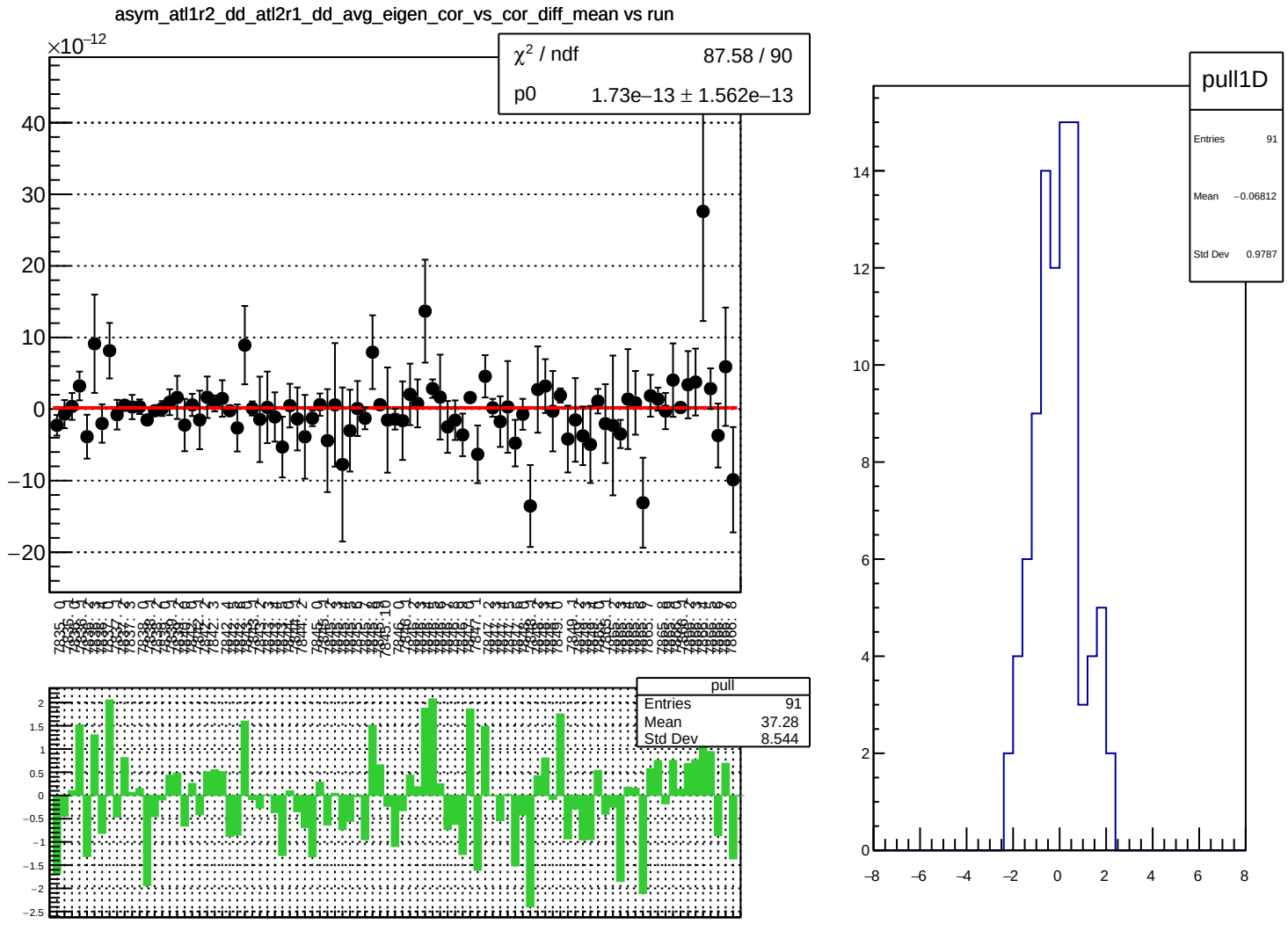

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001016 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0

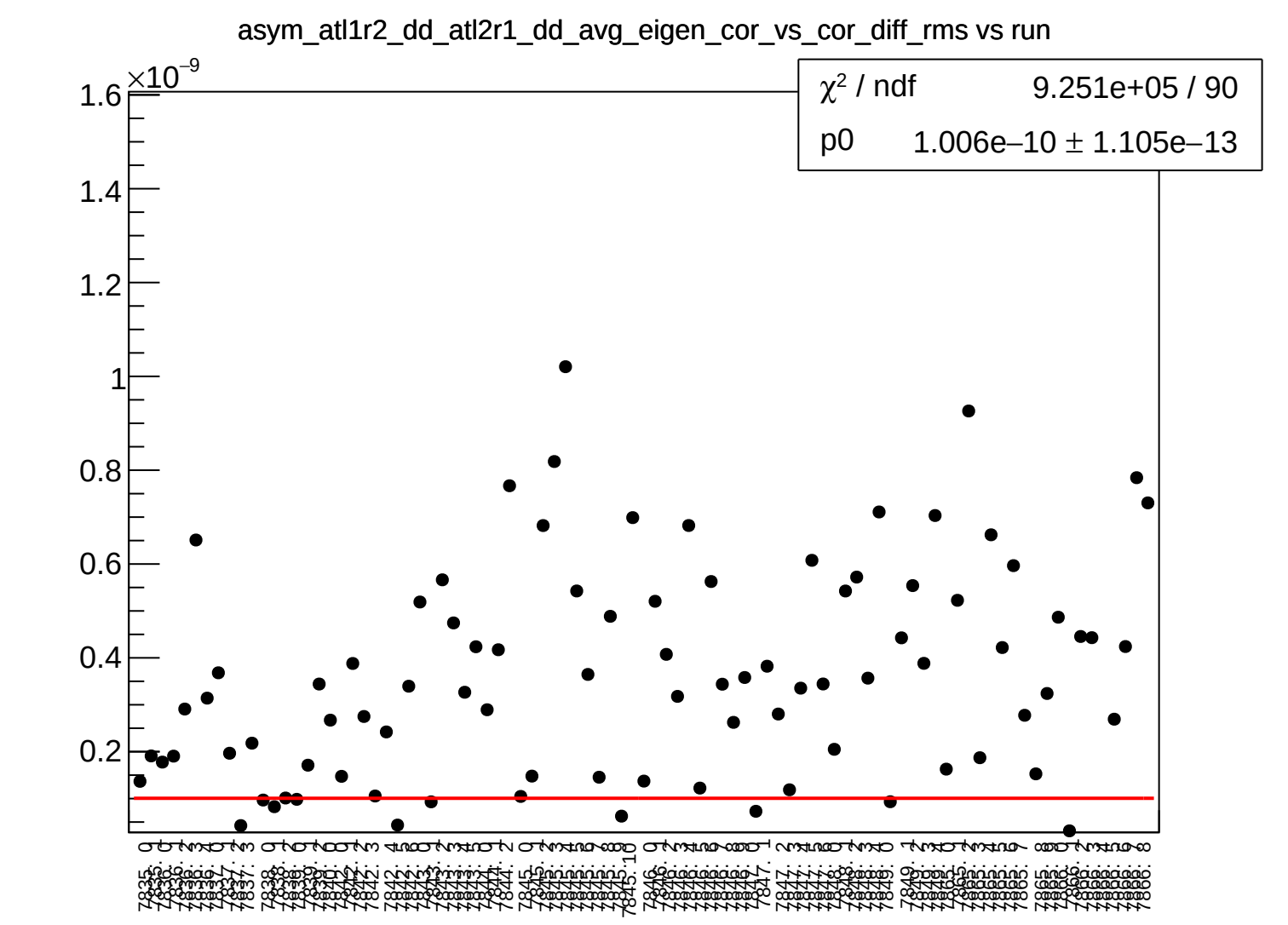

pull1D
Entries 91
Mean 0.01716
Std Dev 1.016

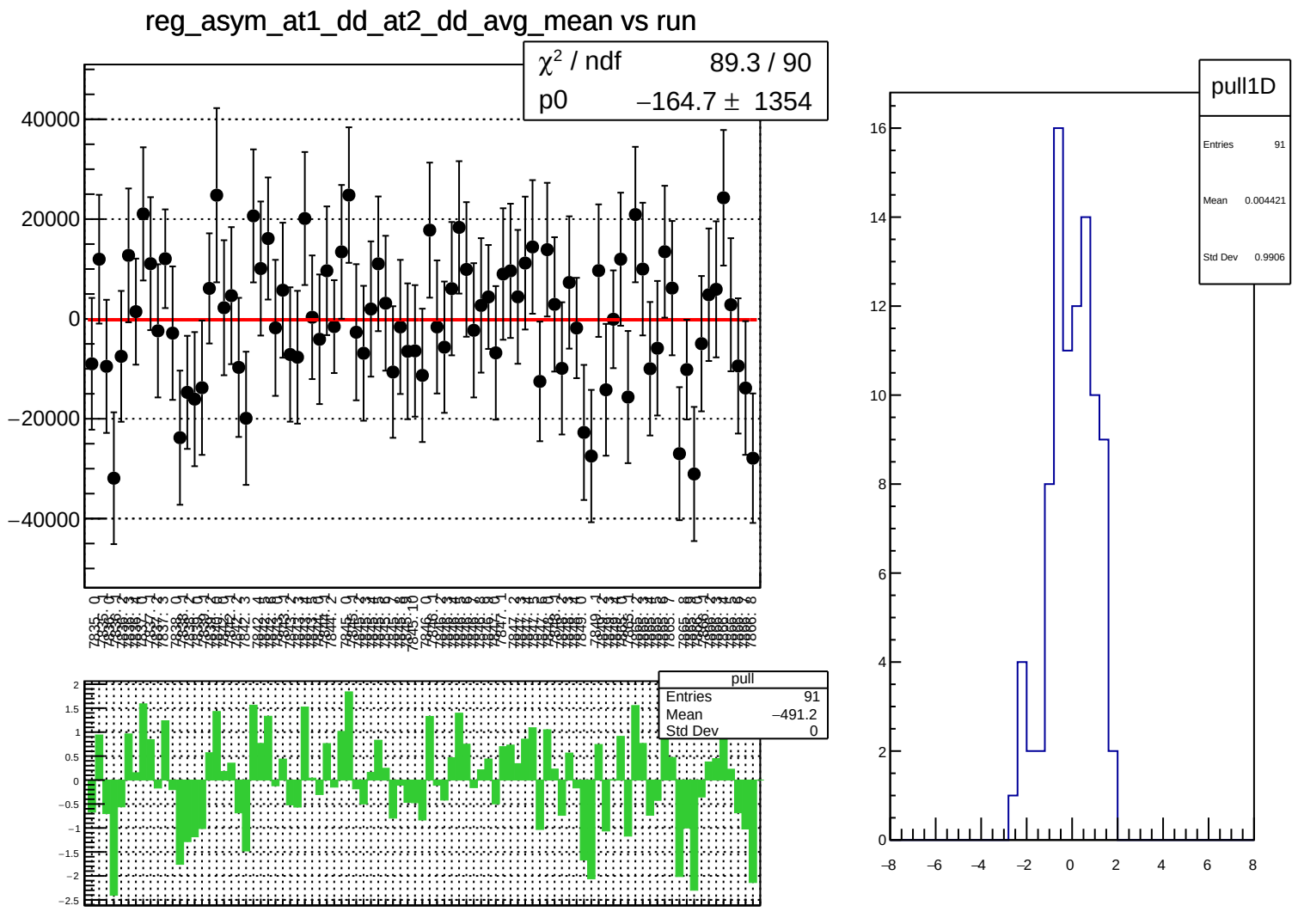

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

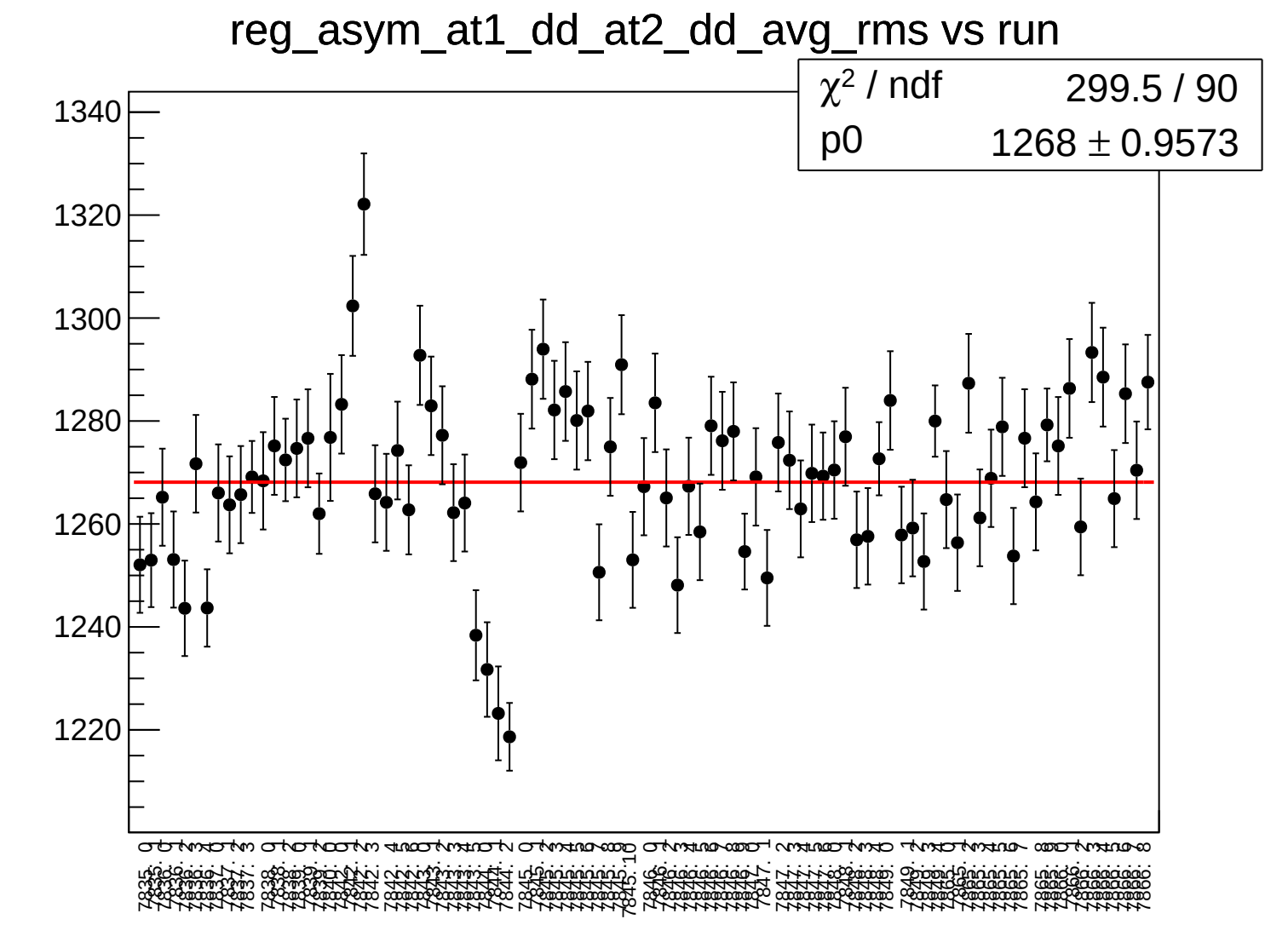

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.92 / 90
p0 0.001016 ± 0.07241
pull
Entries 91
Mean 260.3
Std Dev 0
pull1D
Entries 91
Mean 0.01716
Std Dev 1.016

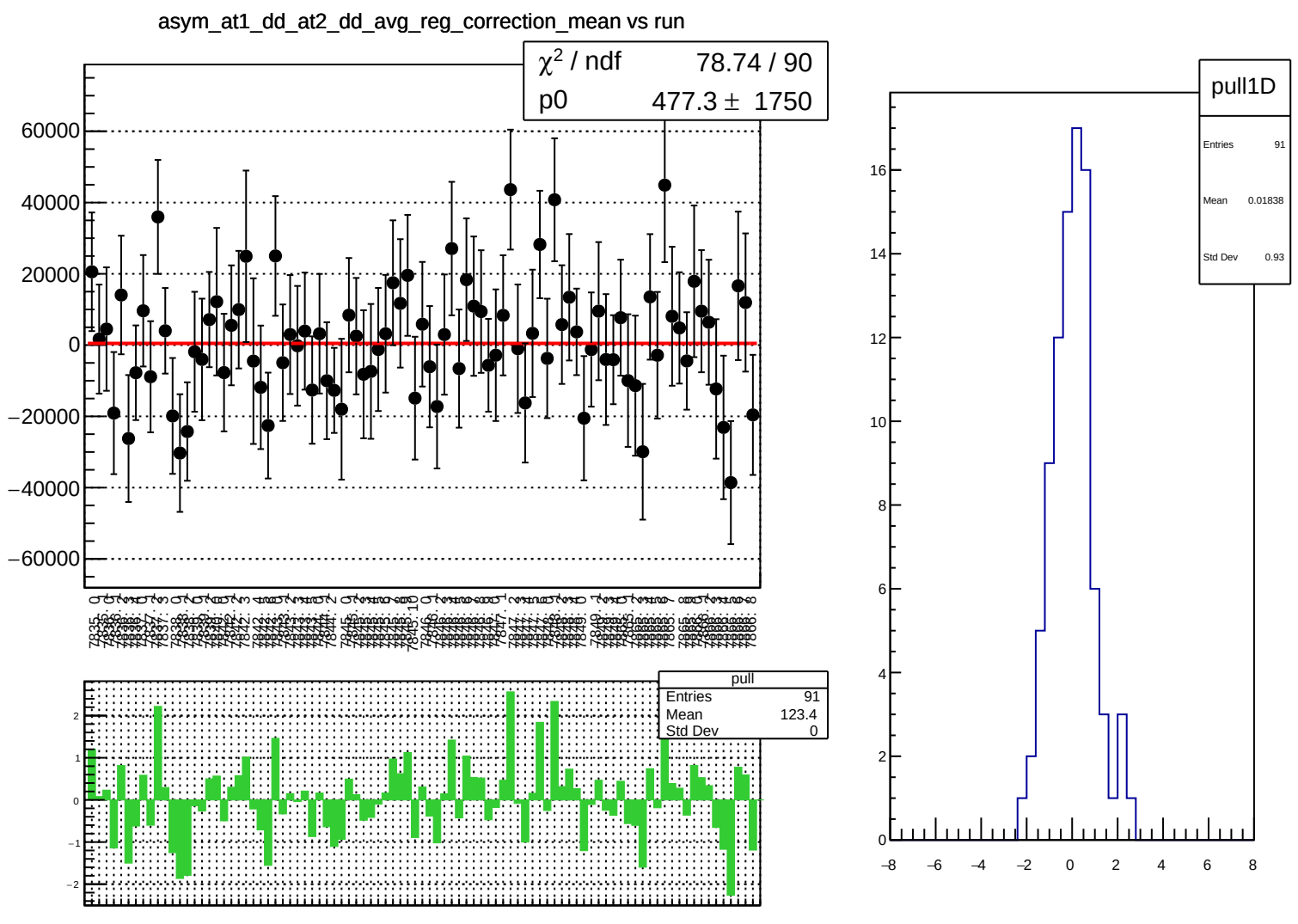

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 90
p0 63.78 ± 0.0512
220
200
180
160
140
120
100
80
60
40
20

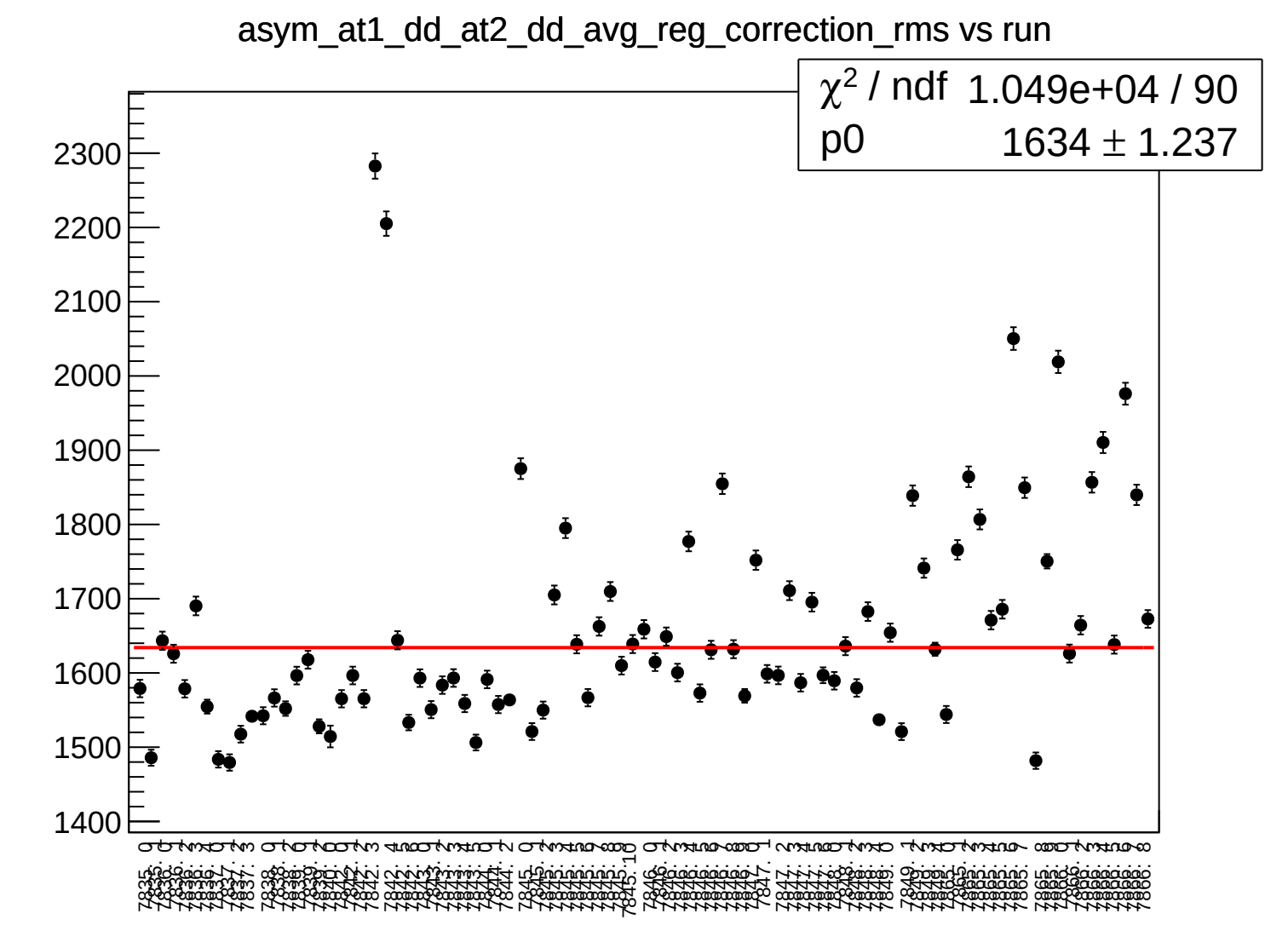

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 87.58 / 90
p0 1.73e−13 ± 1.562e−13
pull
Entries 91
Mean 37.28
Std Dev 8.544
pull1D
Entries 91
Mean −0.06812
Std Dev 0.9787

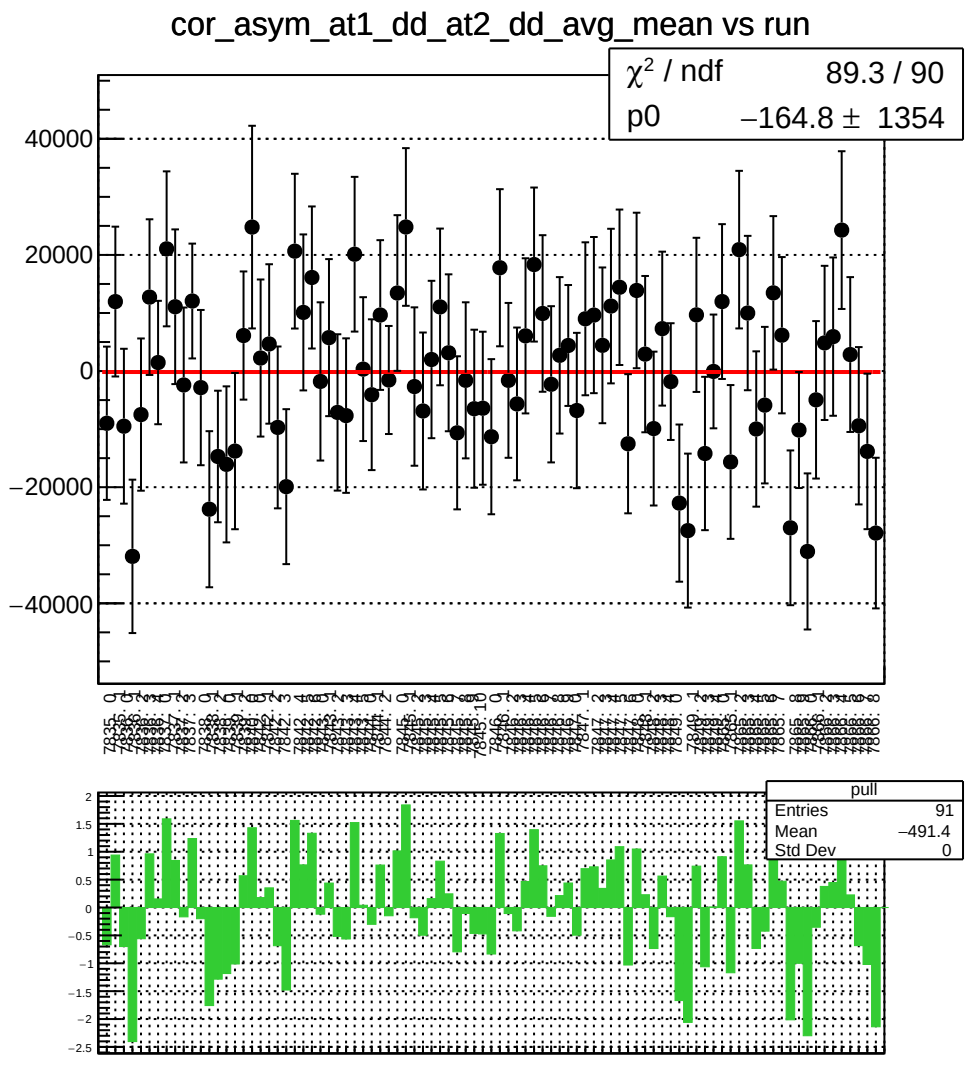

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.251e+05 / 90
p0 1.006e−10 ± 1.105e−13

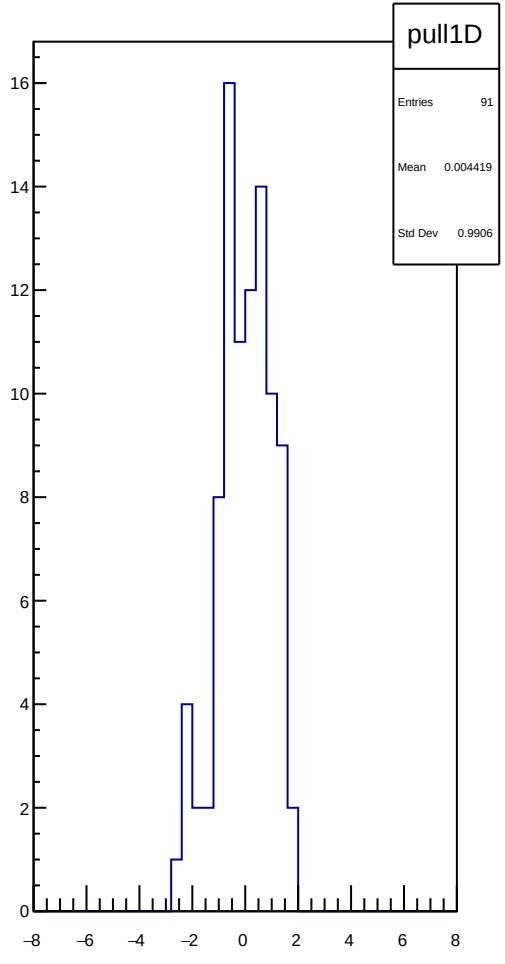

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.3 / 90
p0 −164.7 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.004421
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

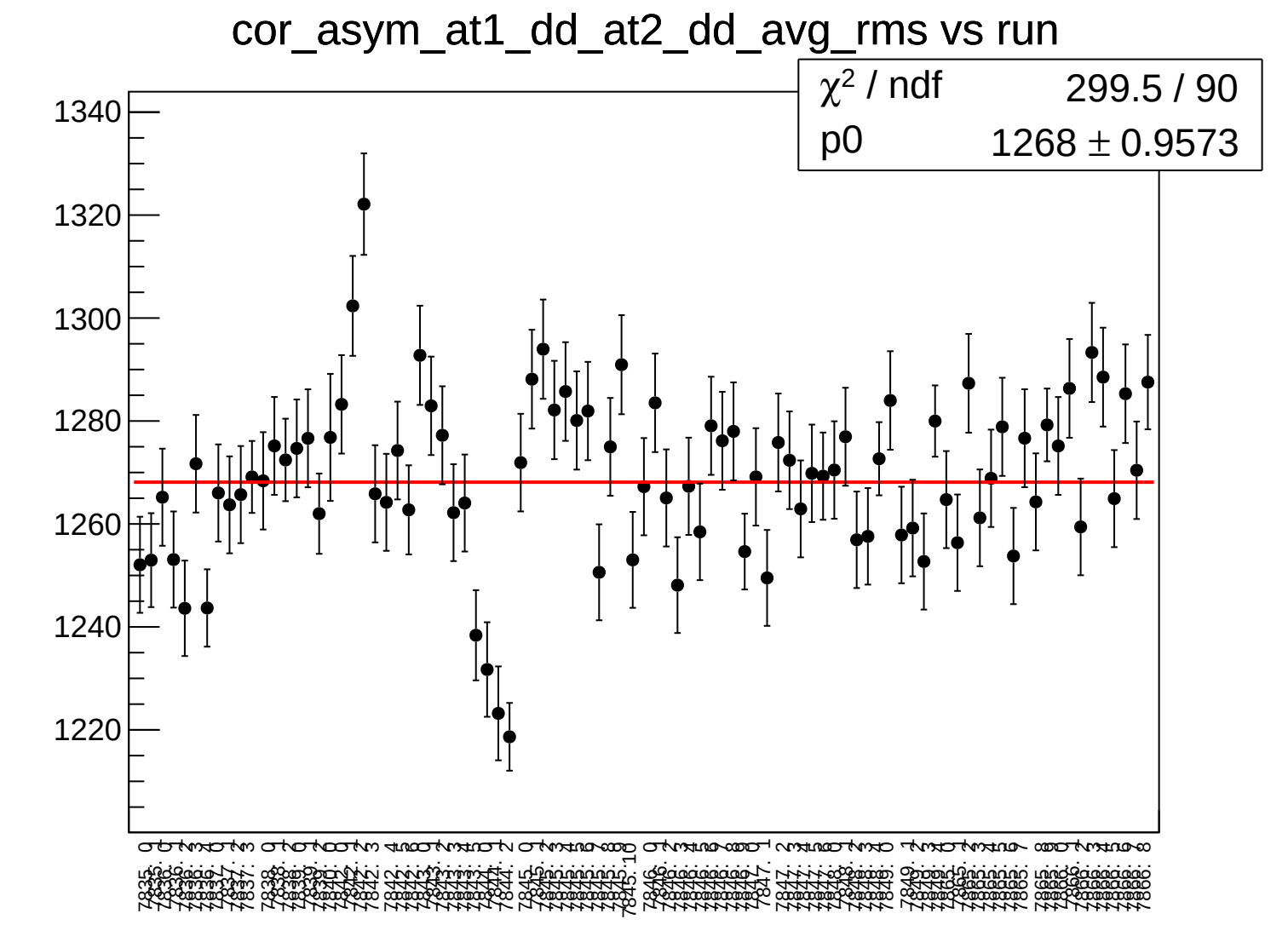

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 299.5 / 90
p0 1268 ± 0.9573
1340
1320
1300
1280
1260
1240
1220

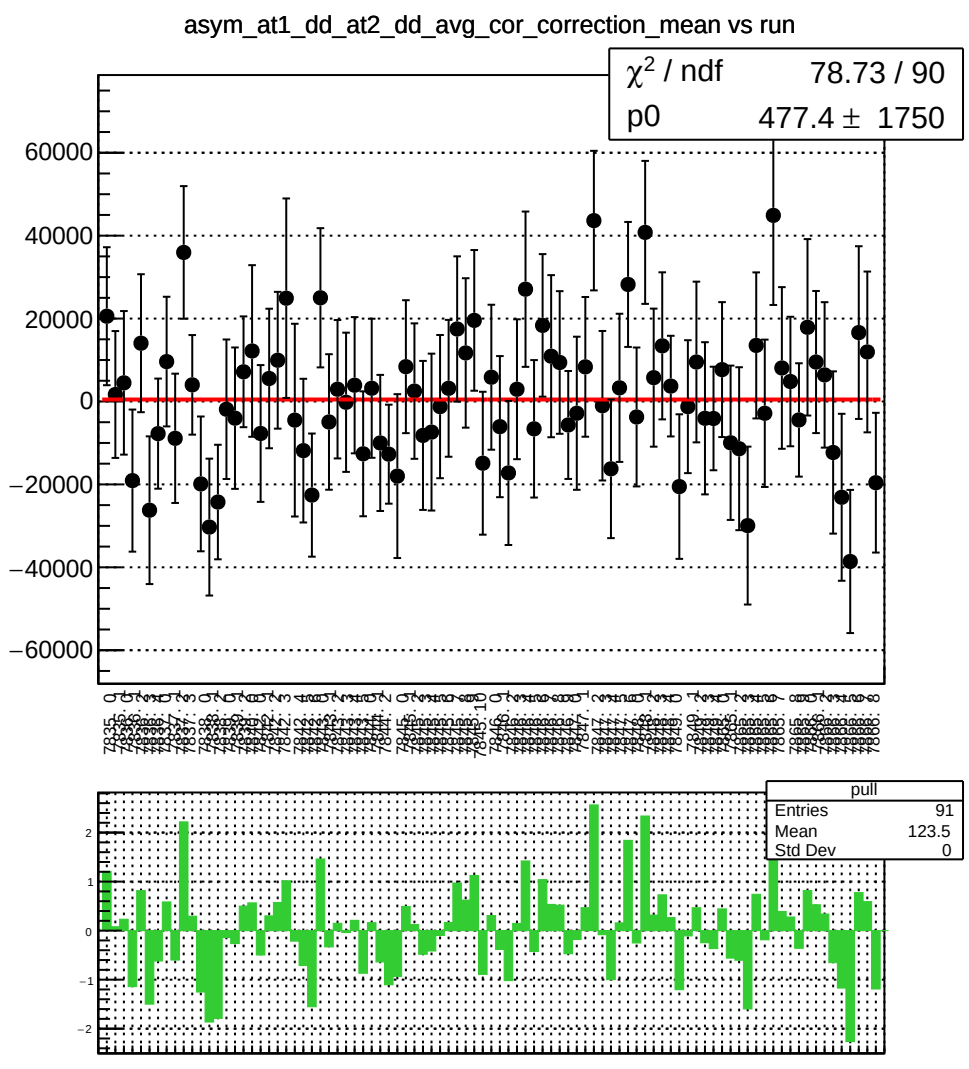

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 78.74 / 90
p0 477.3 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 123.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01838
Std Dev 0.93
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

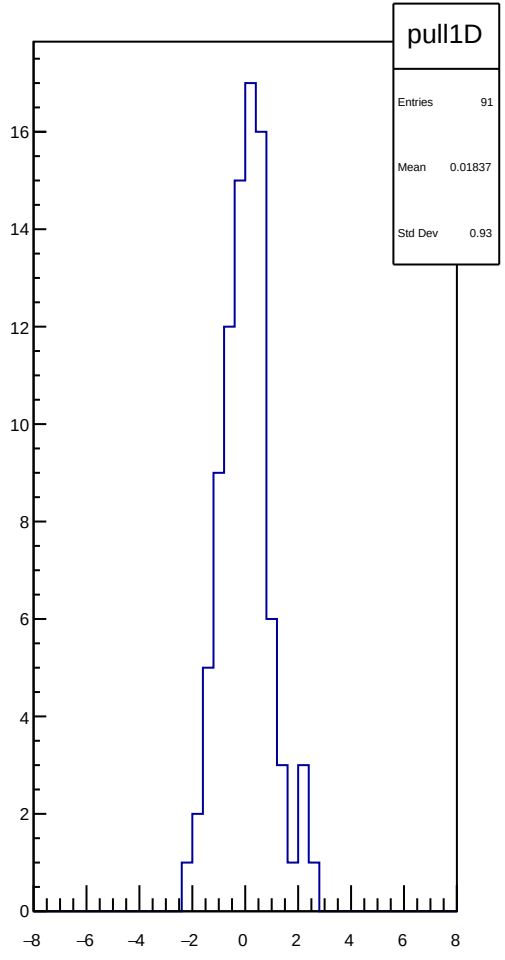

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.049e+04 / 90
p0 1634 ± 1.237
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400


cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.3 / 90
p0 −164.8 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 91
Mean 0.004419
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 299.5 / 90
p0 1268 ± 0.9573
1340
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 78.73 / 90
p0 477.4 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 123.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01837
Std Dev 0.93
16
14
12
10
8
6
4
2
0
−8
−6
−4
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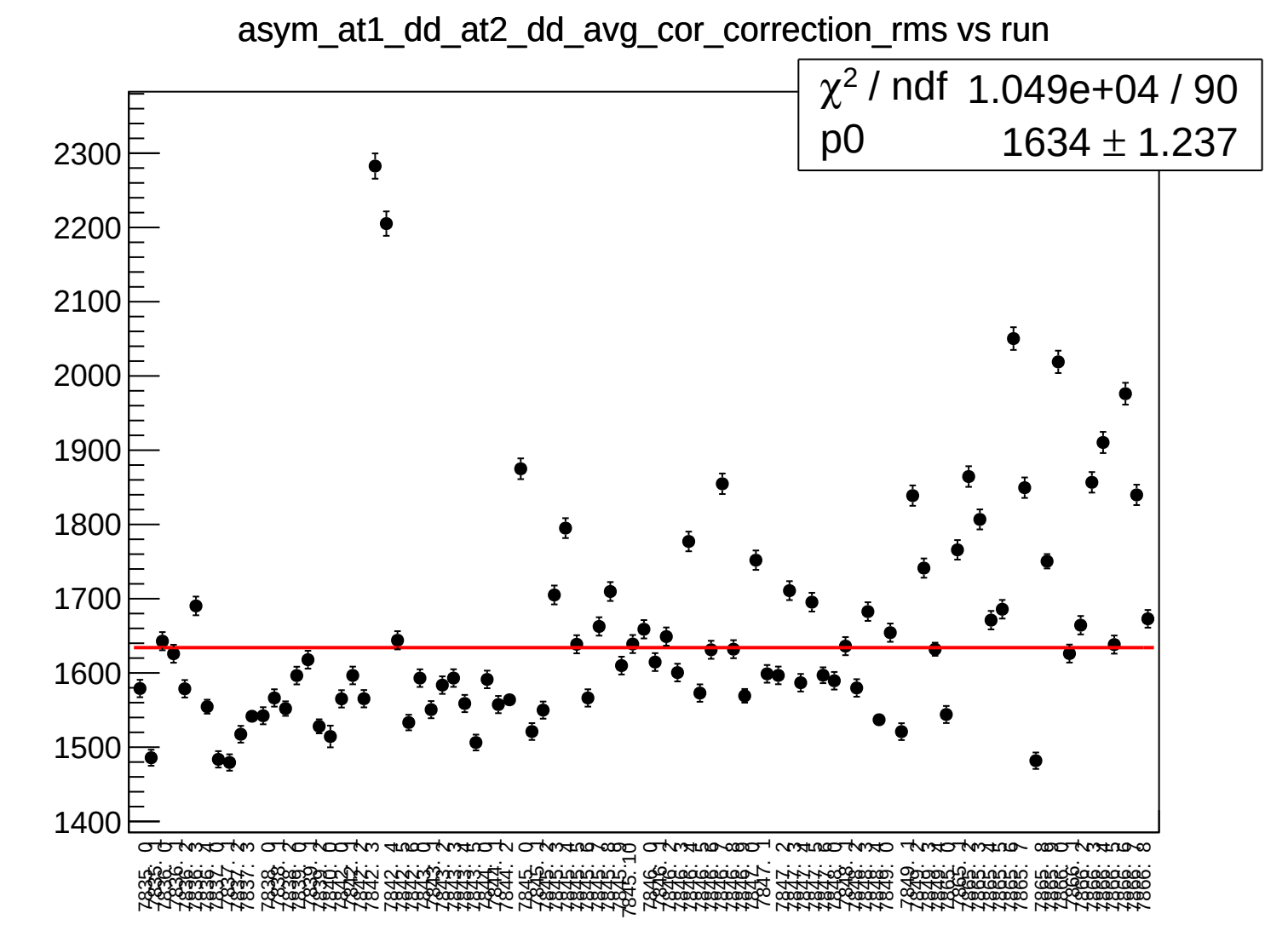
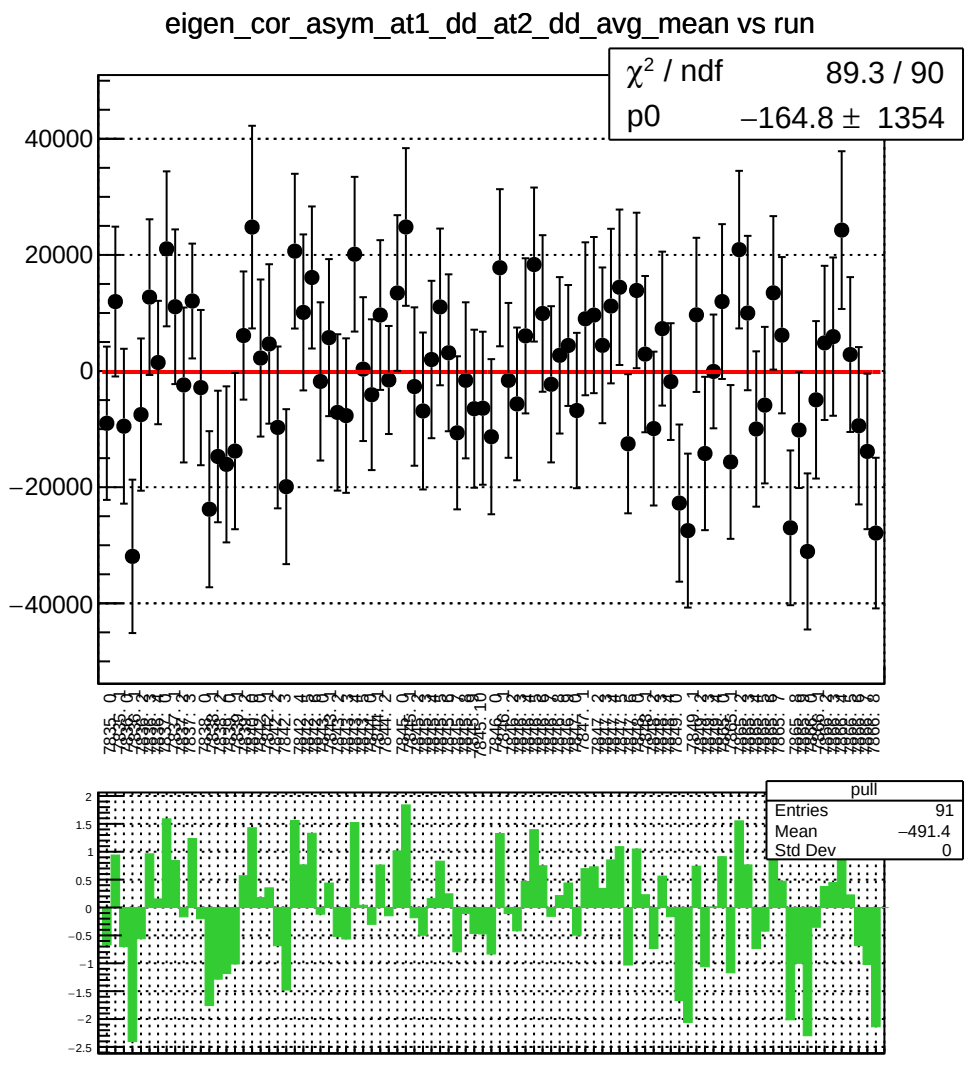
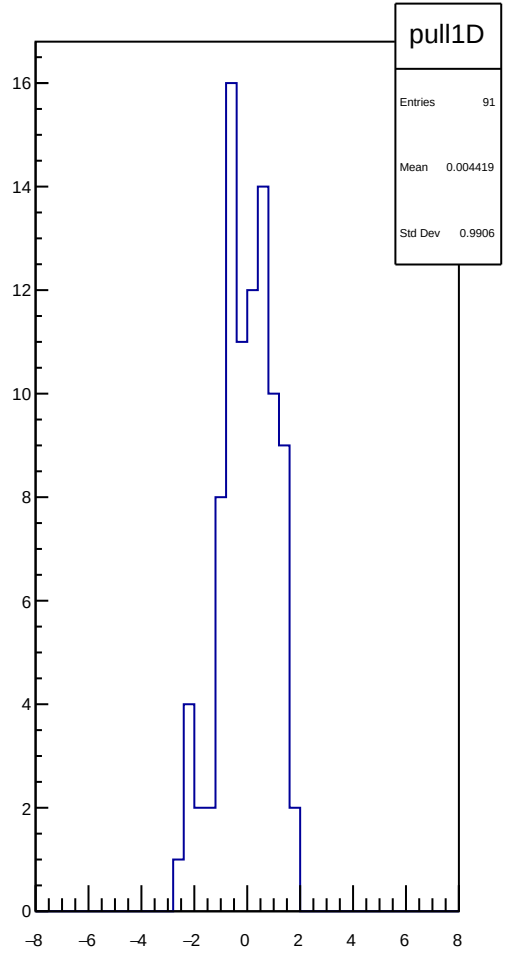
0
2
4
6
8


asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 90
p0 1634 ± 1.237
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.3 / 90
p0 −164.8 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 91
Mean 0.004419
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
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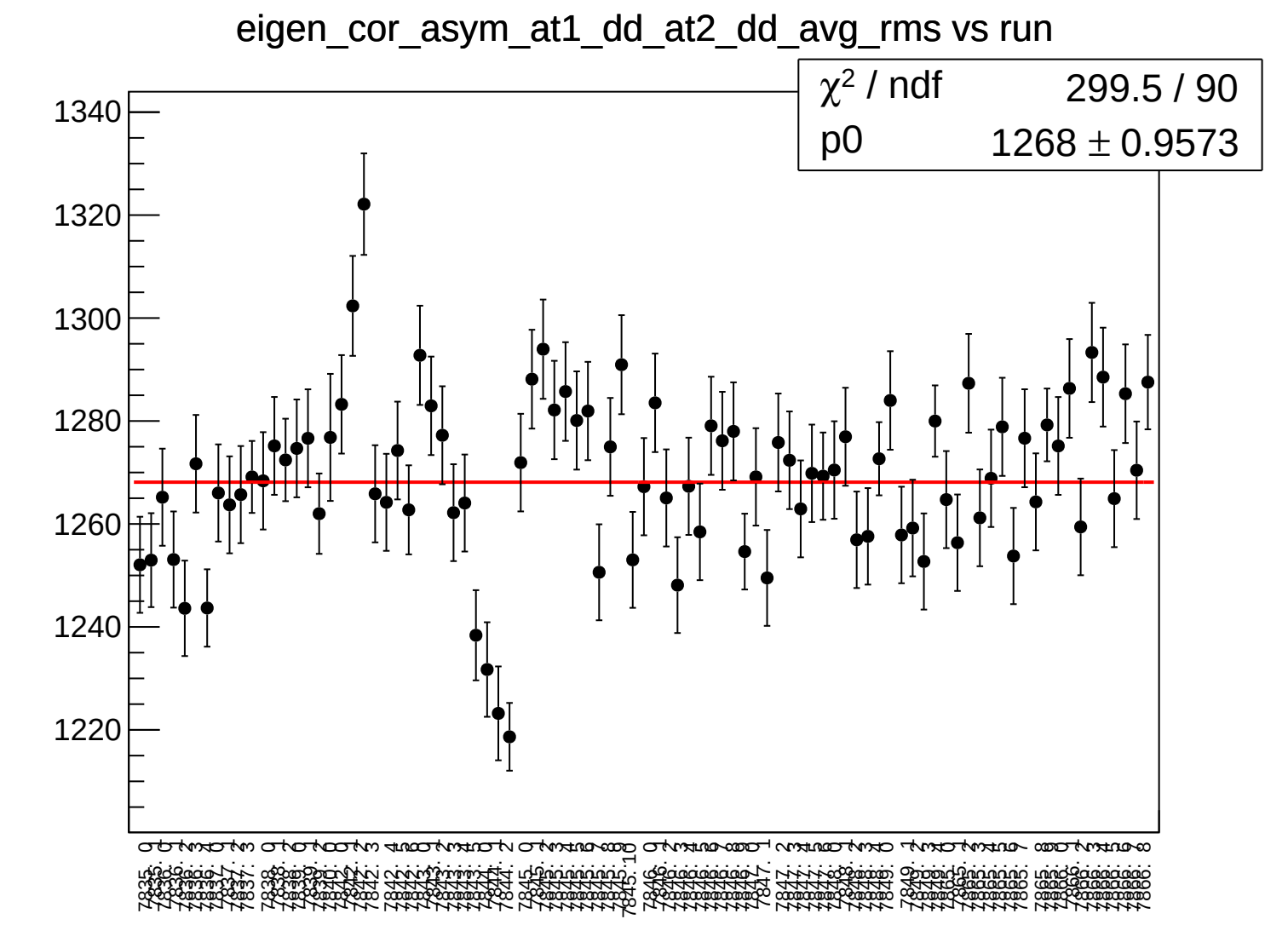
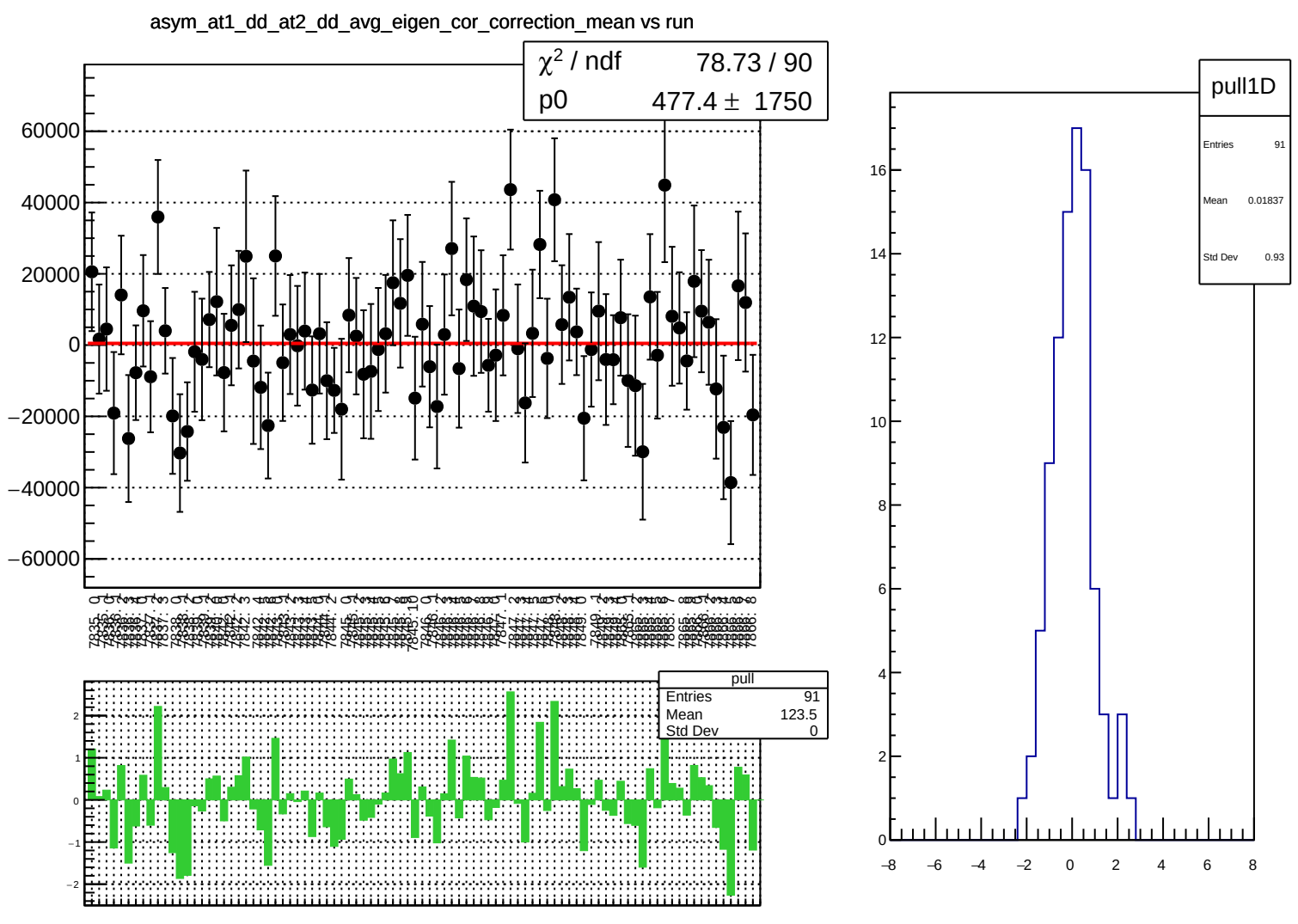
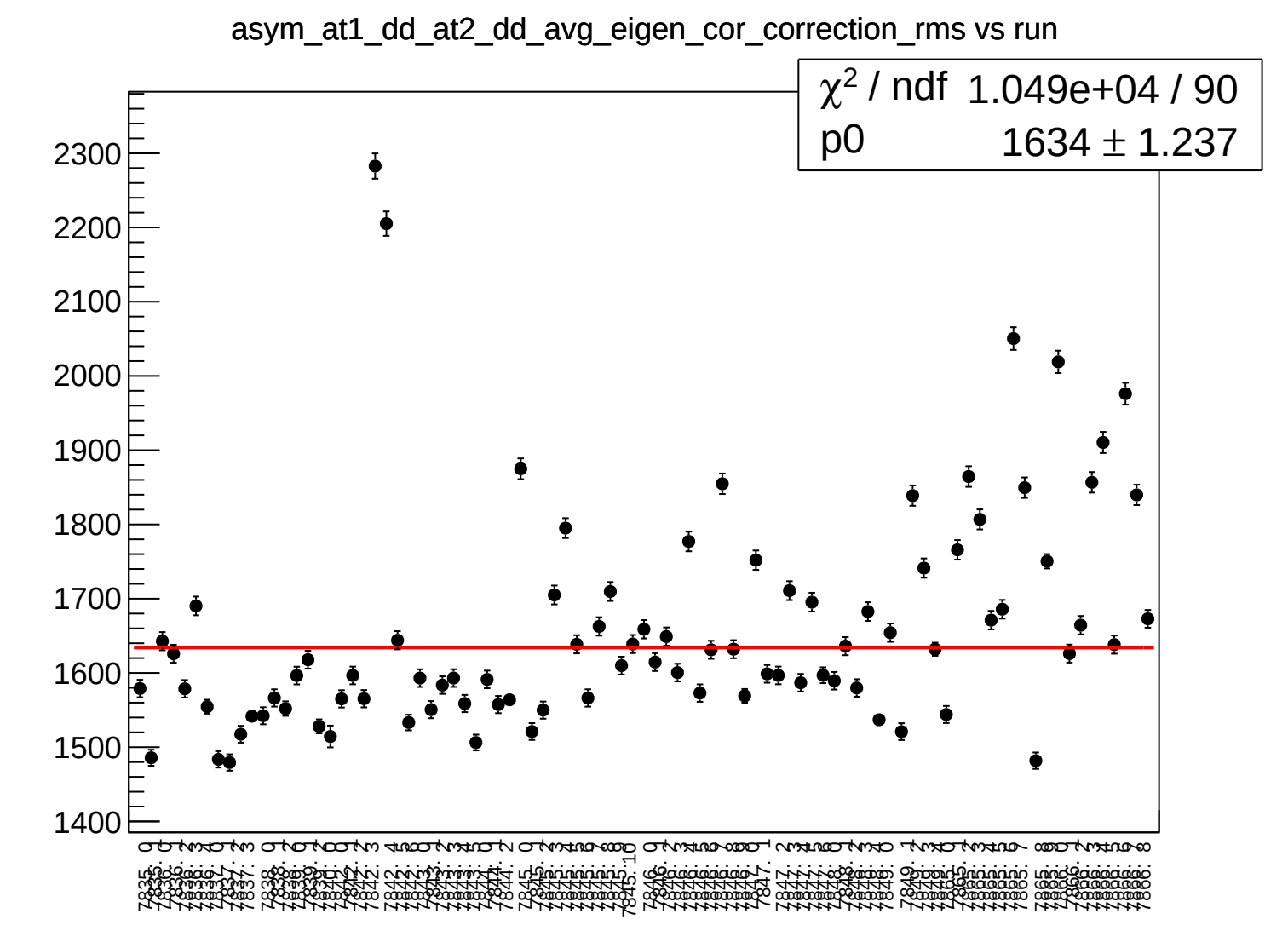
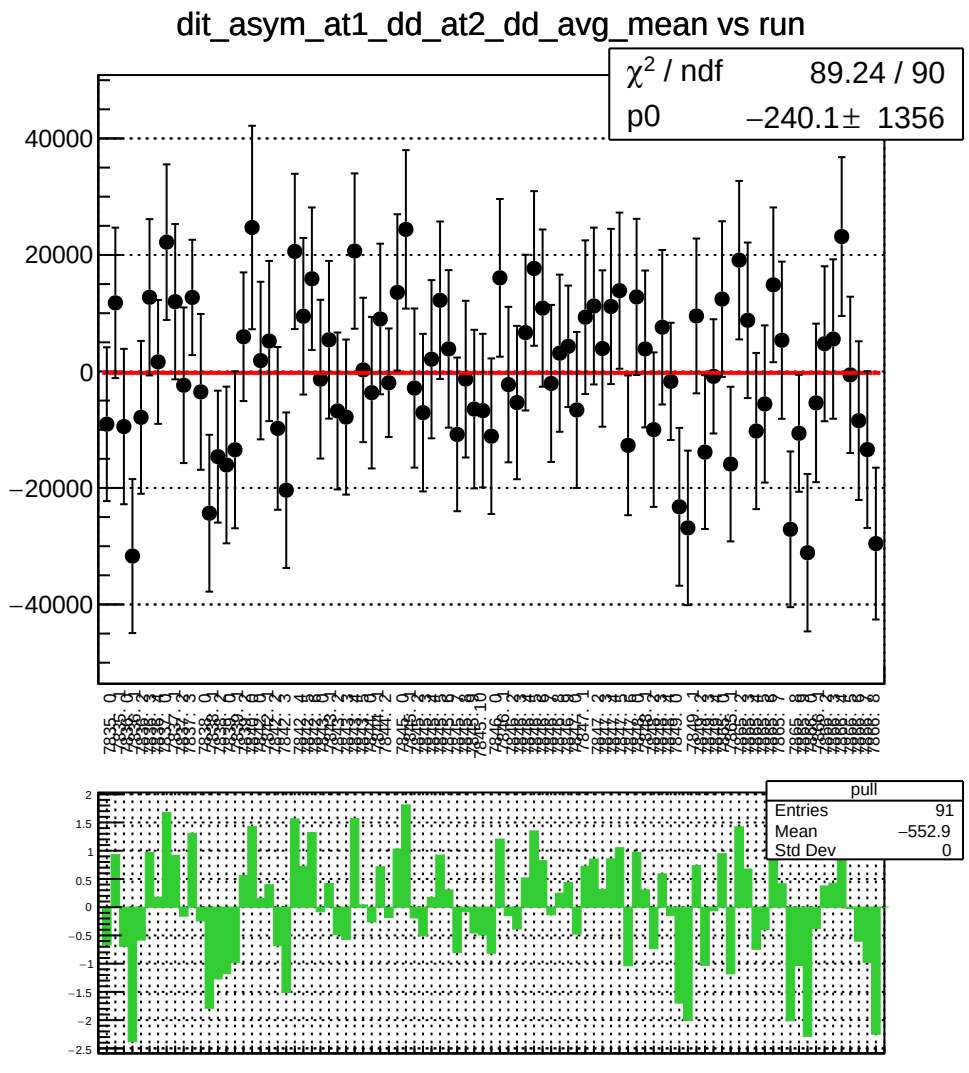
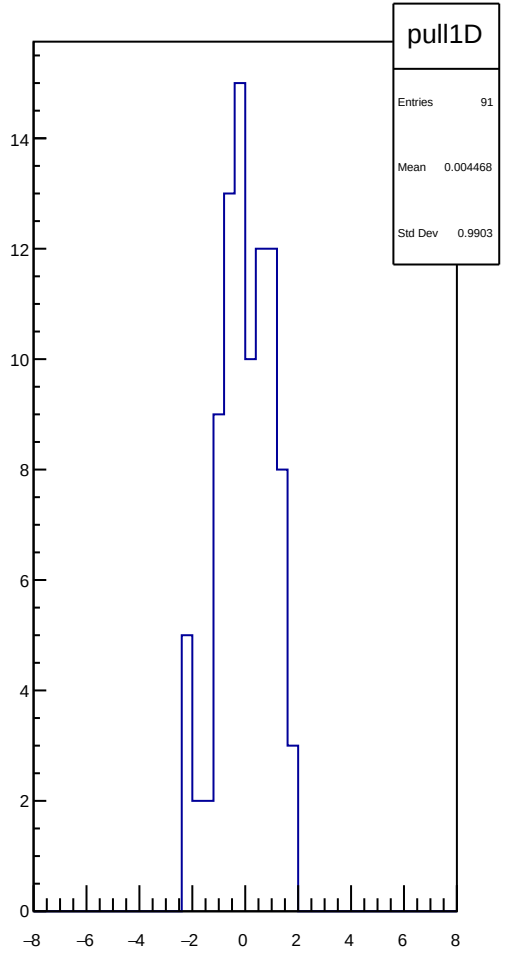
0
2
4
6
8

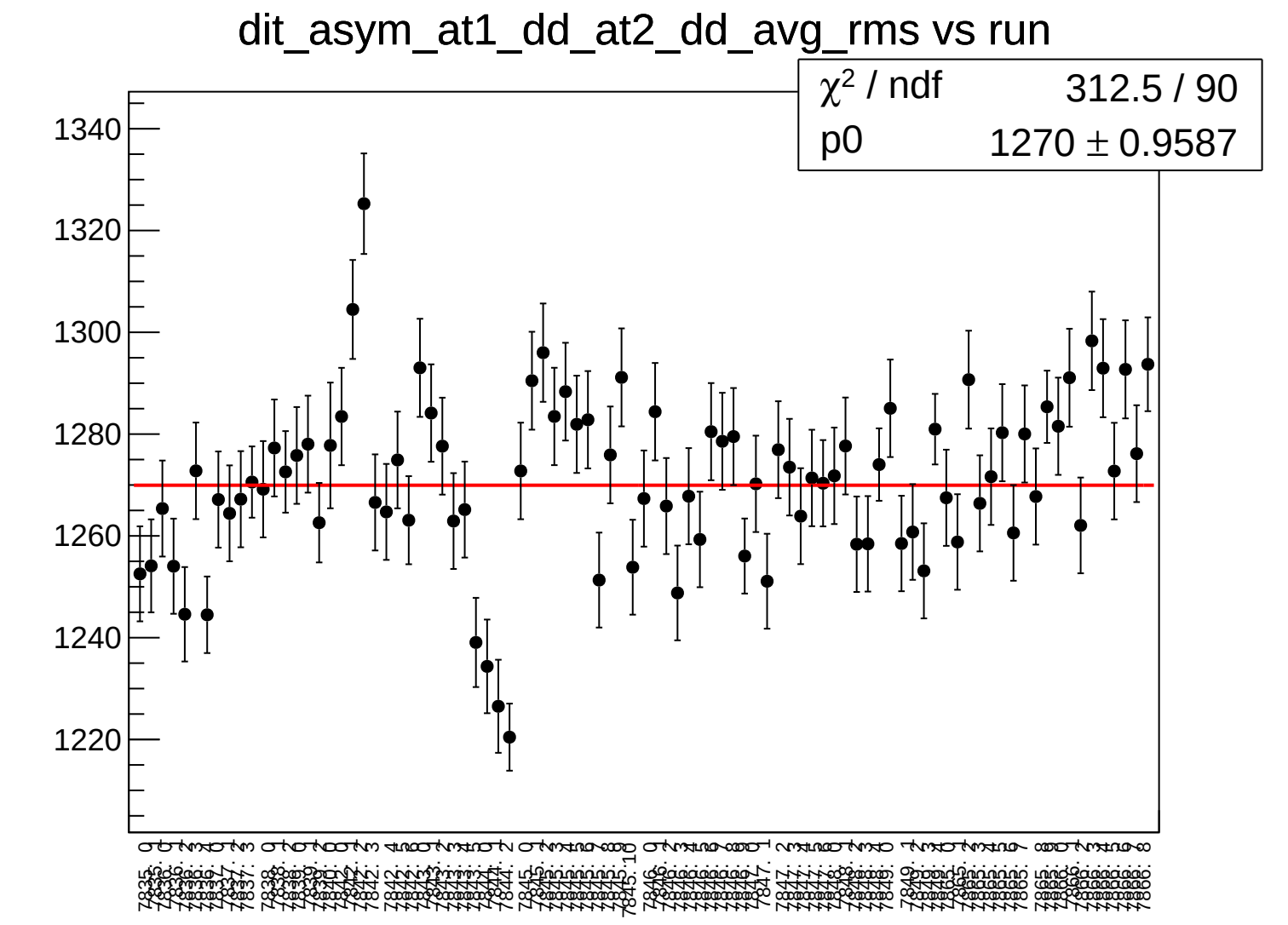

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 299.5 / 90
p0 1268 ± 0.9573
1340
1320
1300
1280
1260
1240
1220

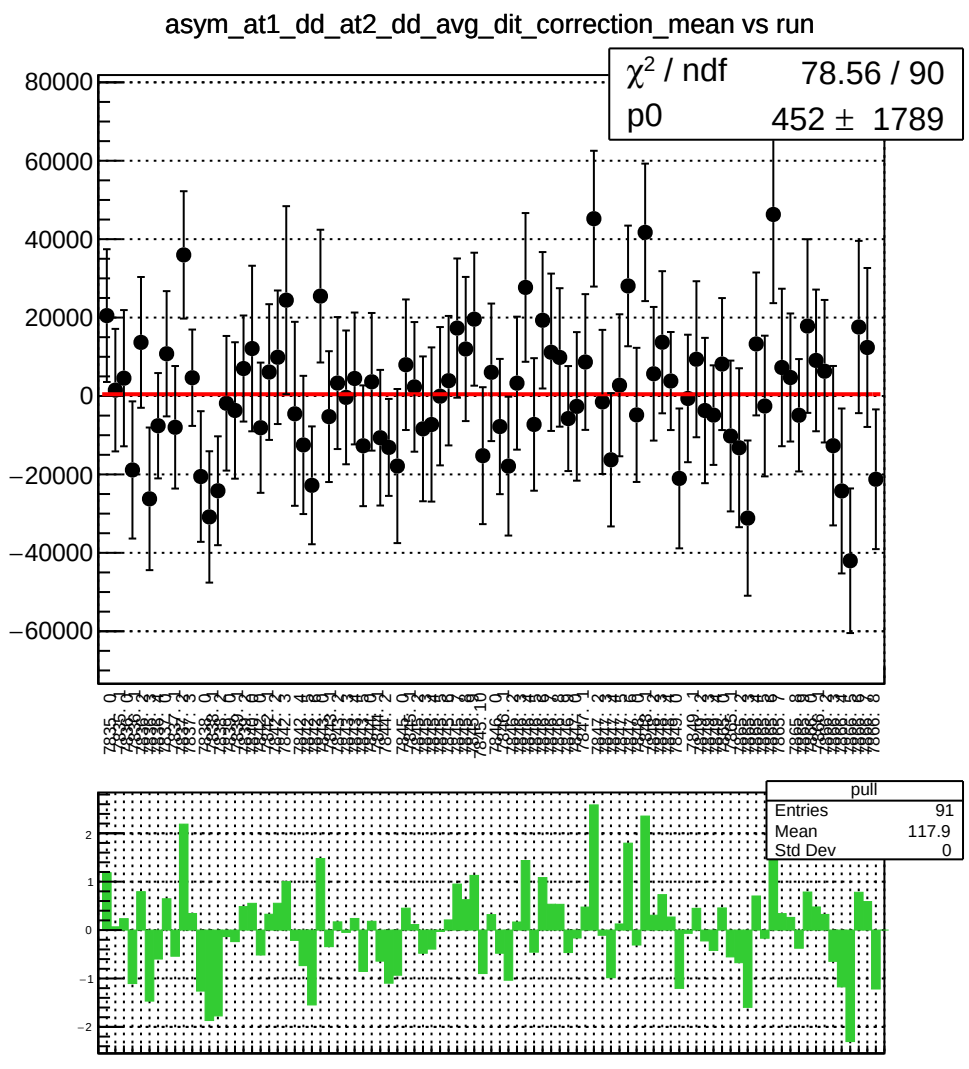

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.73 / 90
p0 477.4 ± 1750
pull
Entries 91
Mean 123.5
Std Dev 0
pull1D
Entries 91
Mean 0.01837
Std Dev 0.93

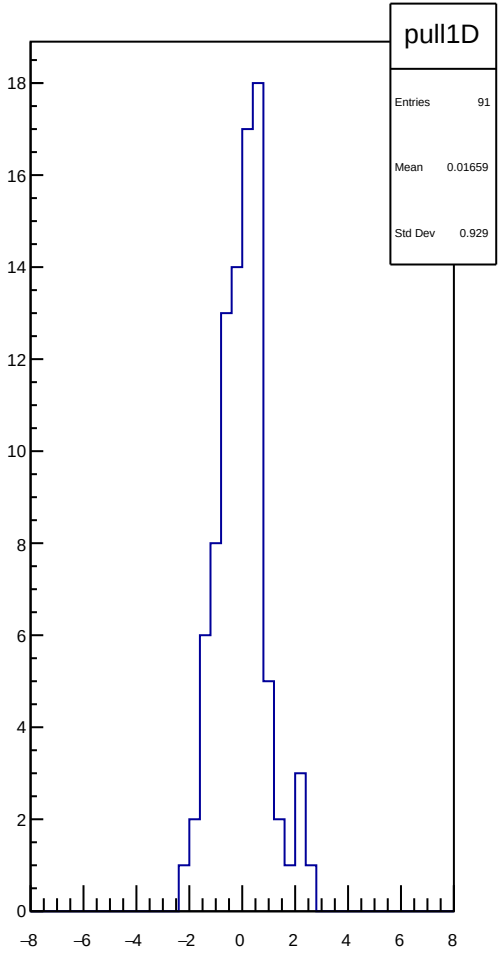

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 90
p0 1634 ± 1.237
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

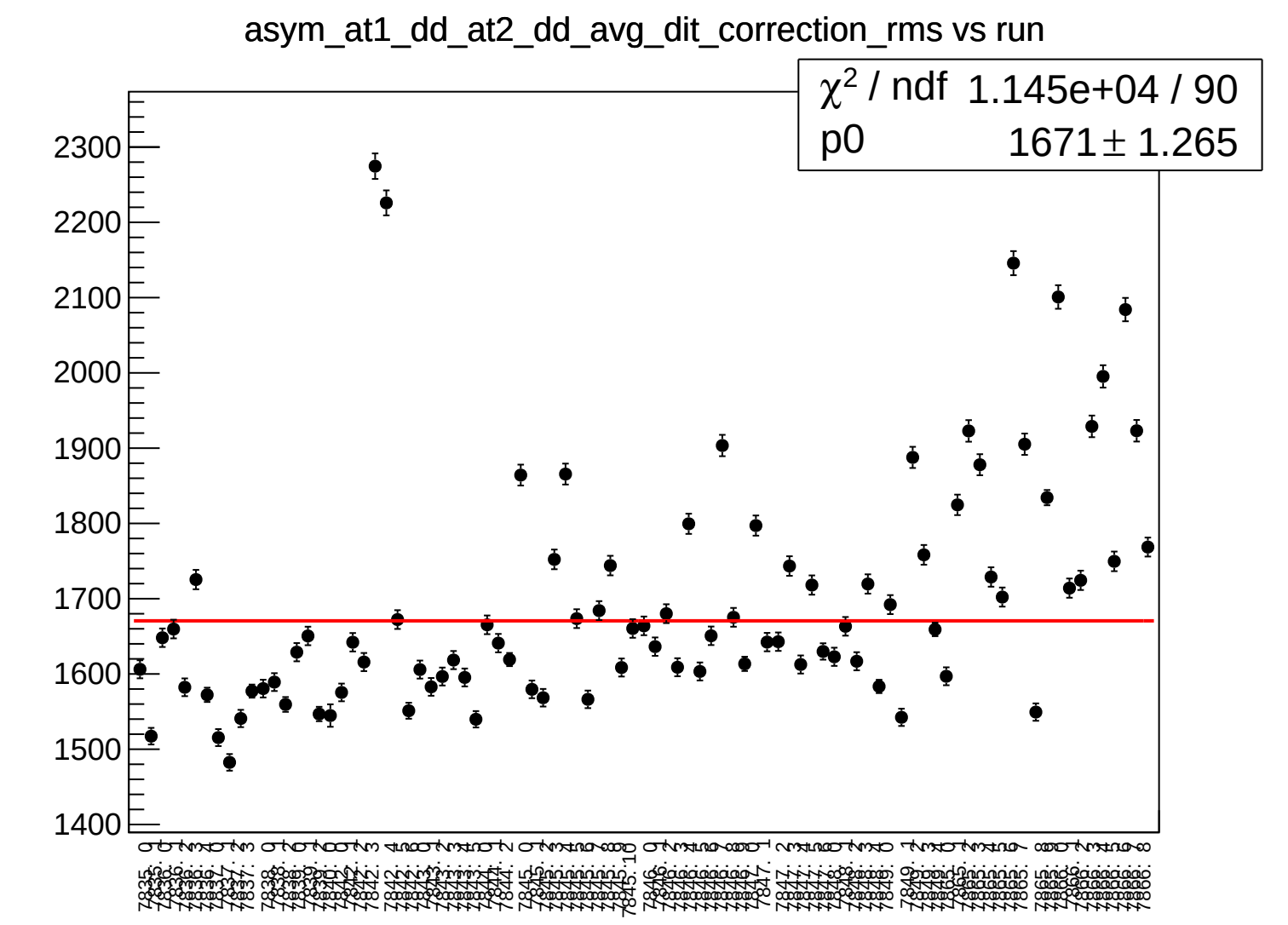

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.24 / 90
p0 −240.1± 1356
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −552.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

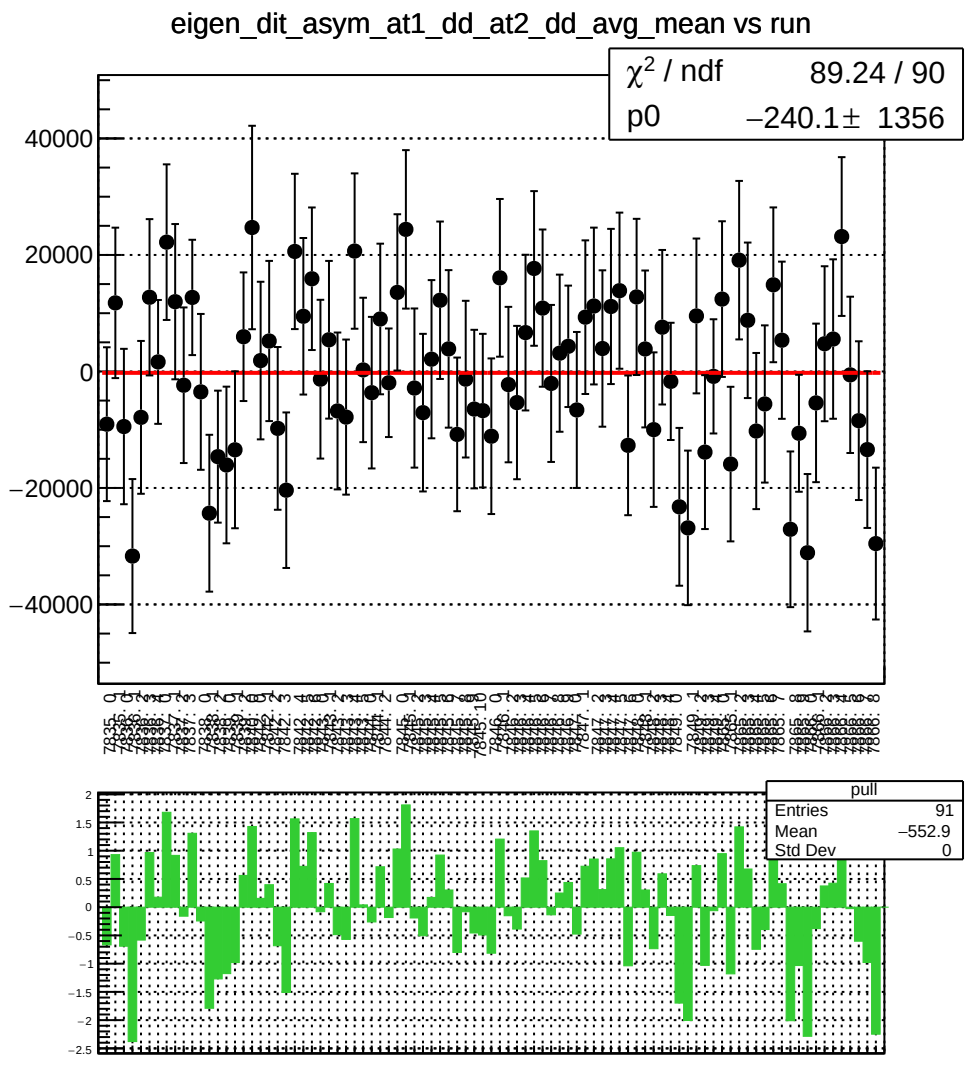

pull1D
Entries 91
Mean 0.004468
Std Dev 0.9903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

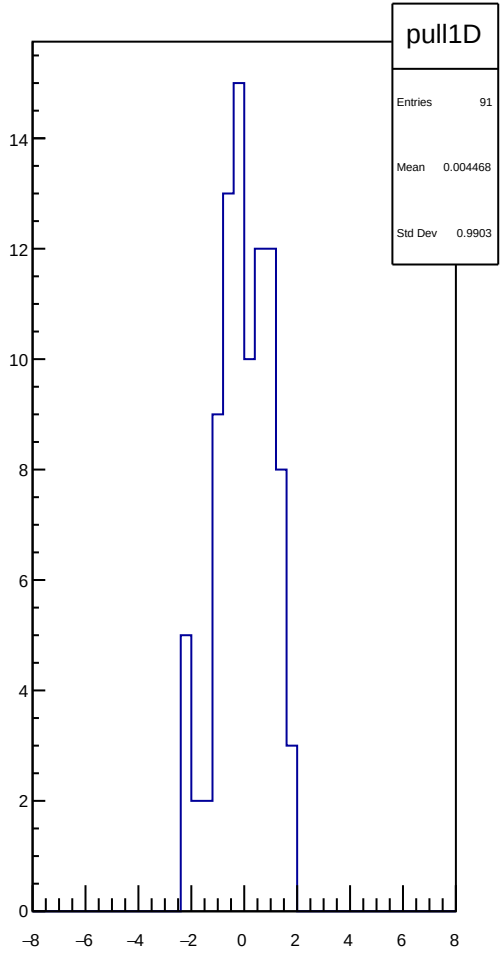

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 312.5 / 90
p0 1270 ± 0.9587
1340
1320
1300
1280
1260
1240
1220

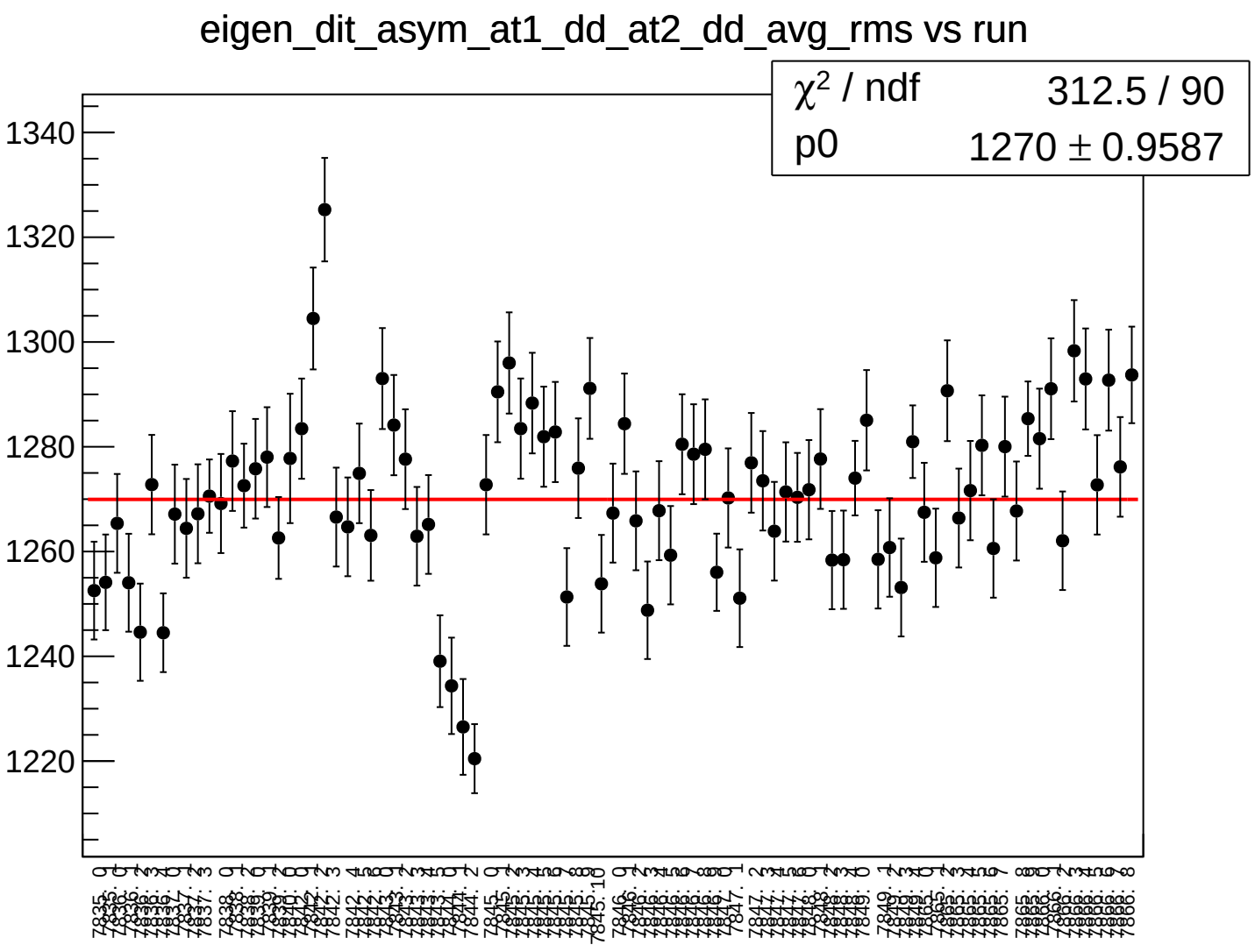

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 78.56 / 90
p0 452 ± 1789
pull
Entries 91
Mean 117.9
Std Dev 0

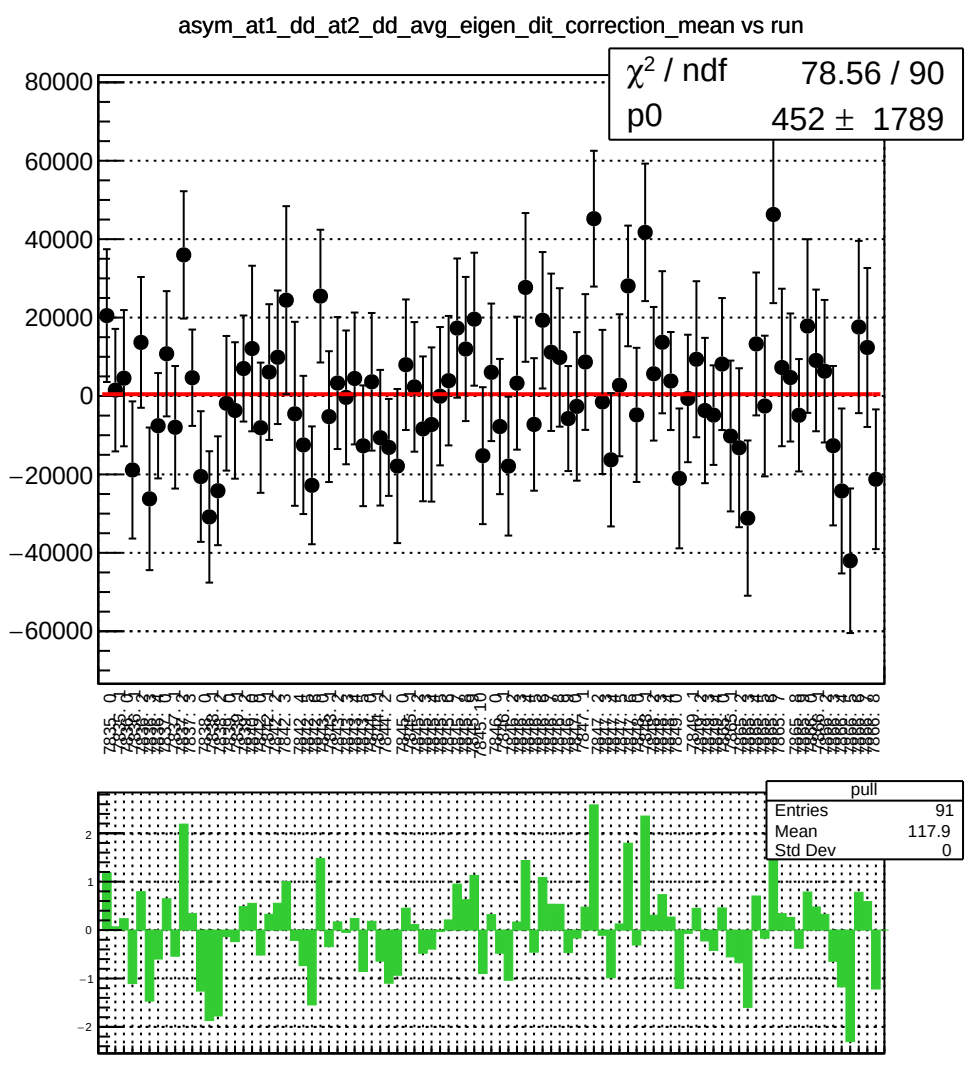

pull1D
Entries 91
Mean 0.01659
Std Dev 0.929

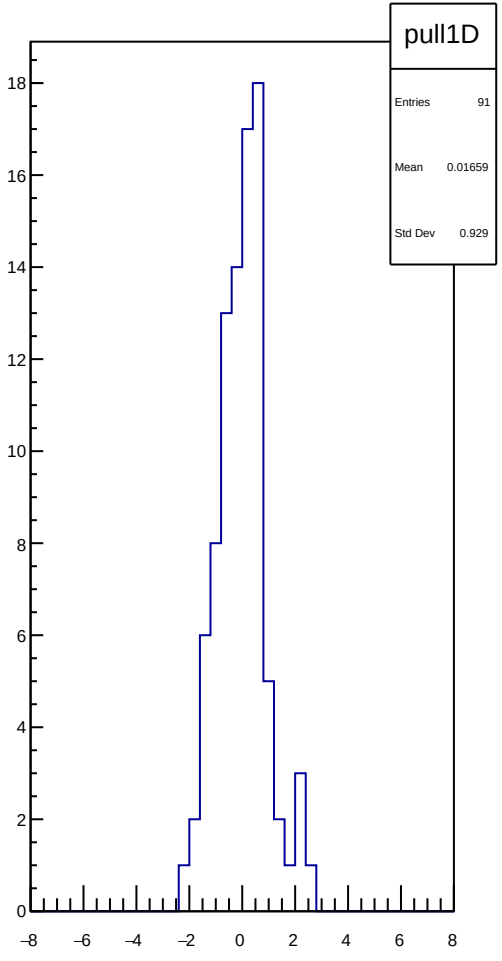

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 90
p0 1671 ± 1.265
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

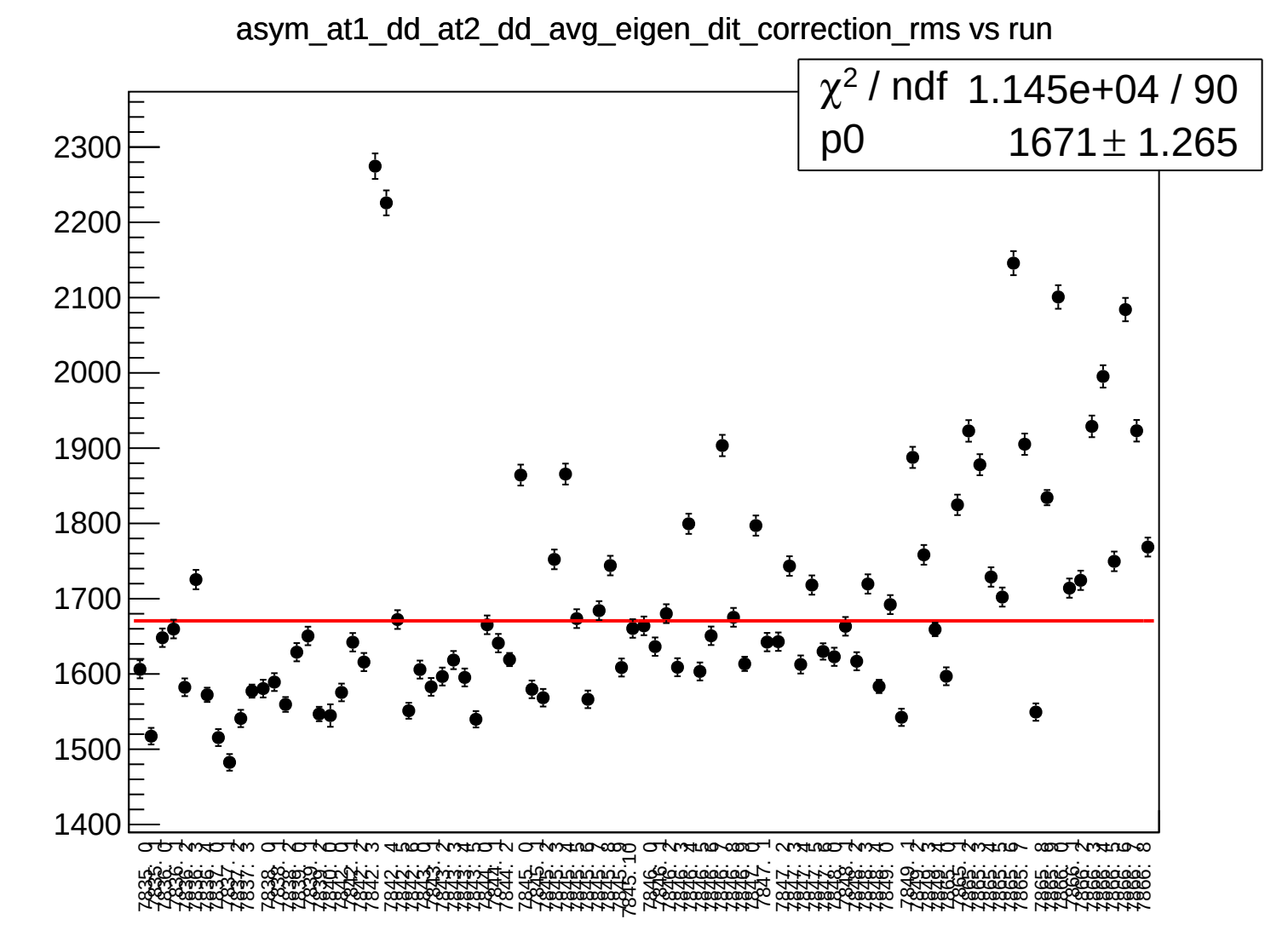

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.24 / 90
p0 −240.1± 1356
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −552.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

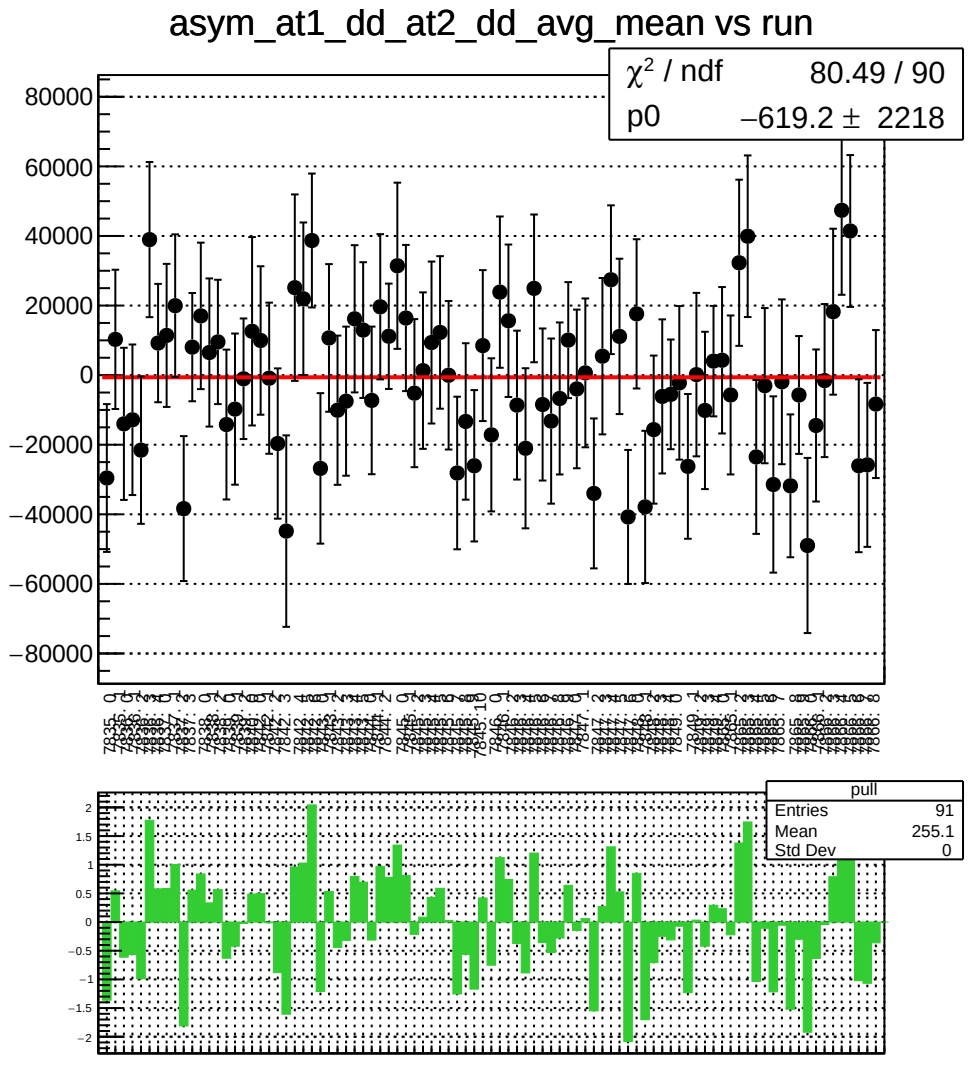

pull1D
Entries 91
Mean 0.004468
Std Dev 0.9903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

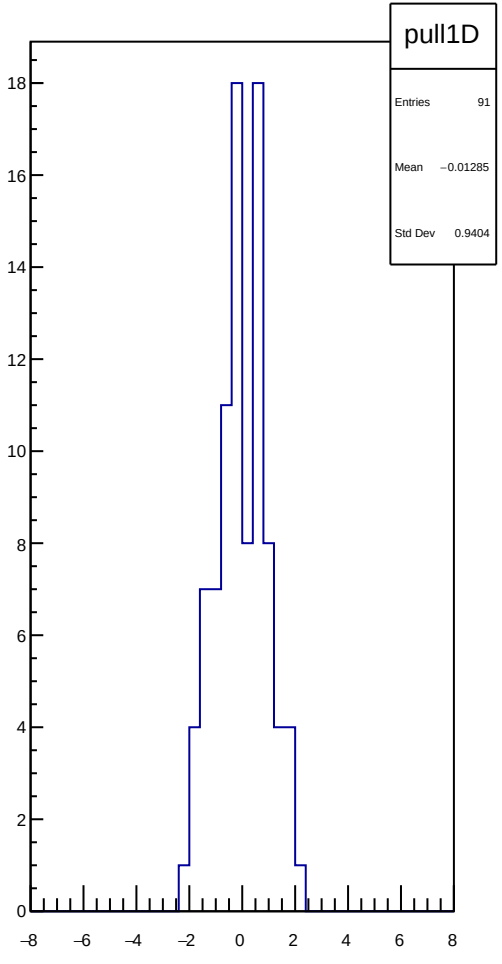

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 312.5 / 90
p0 1270 ± 0.9587
1340
1320
1300
1280
1260
1240
1220

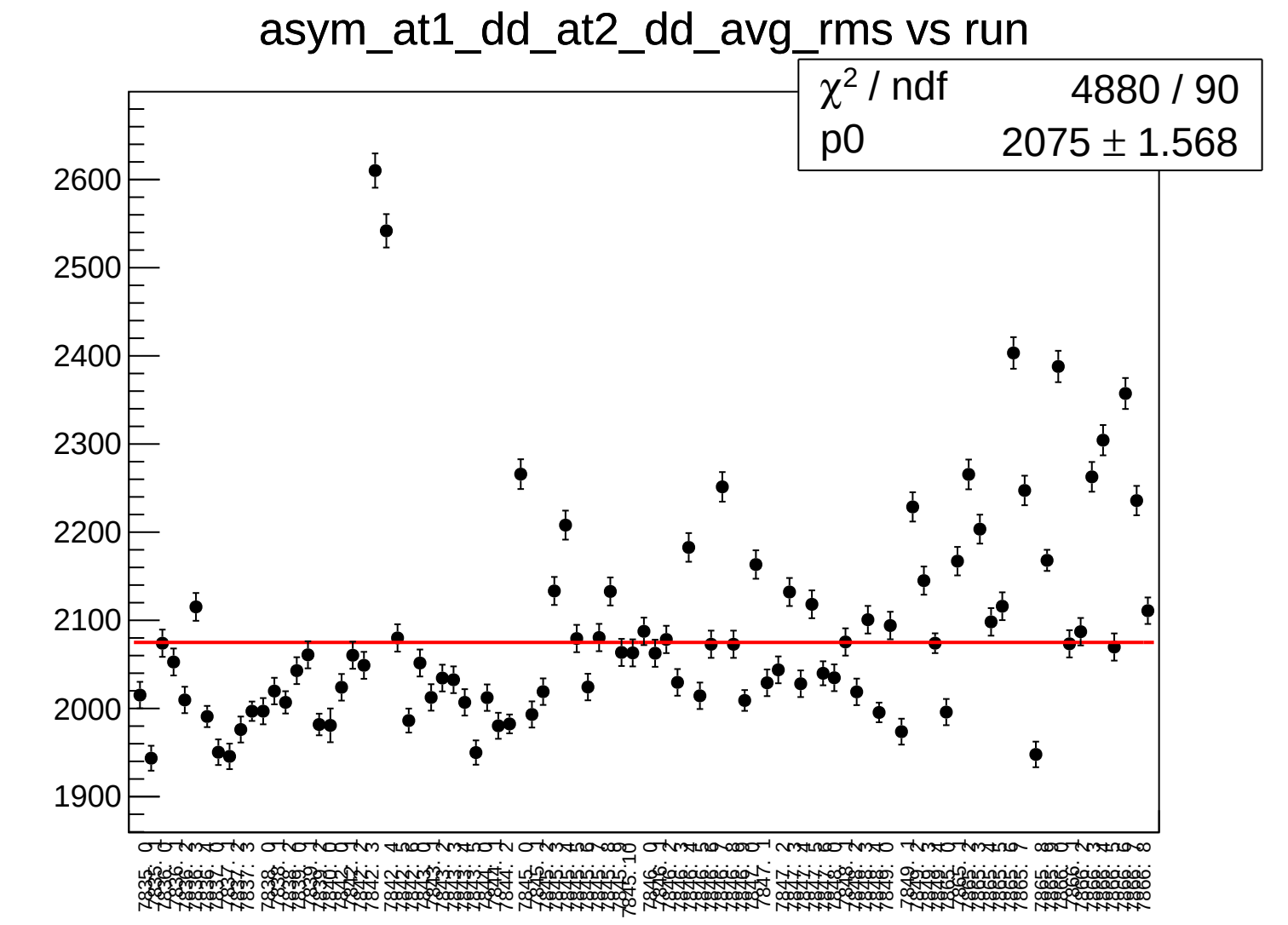

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.56 / 90
p0 452 ± 1789
pull
Entries 91
Mean 117.9
Std Dev 0

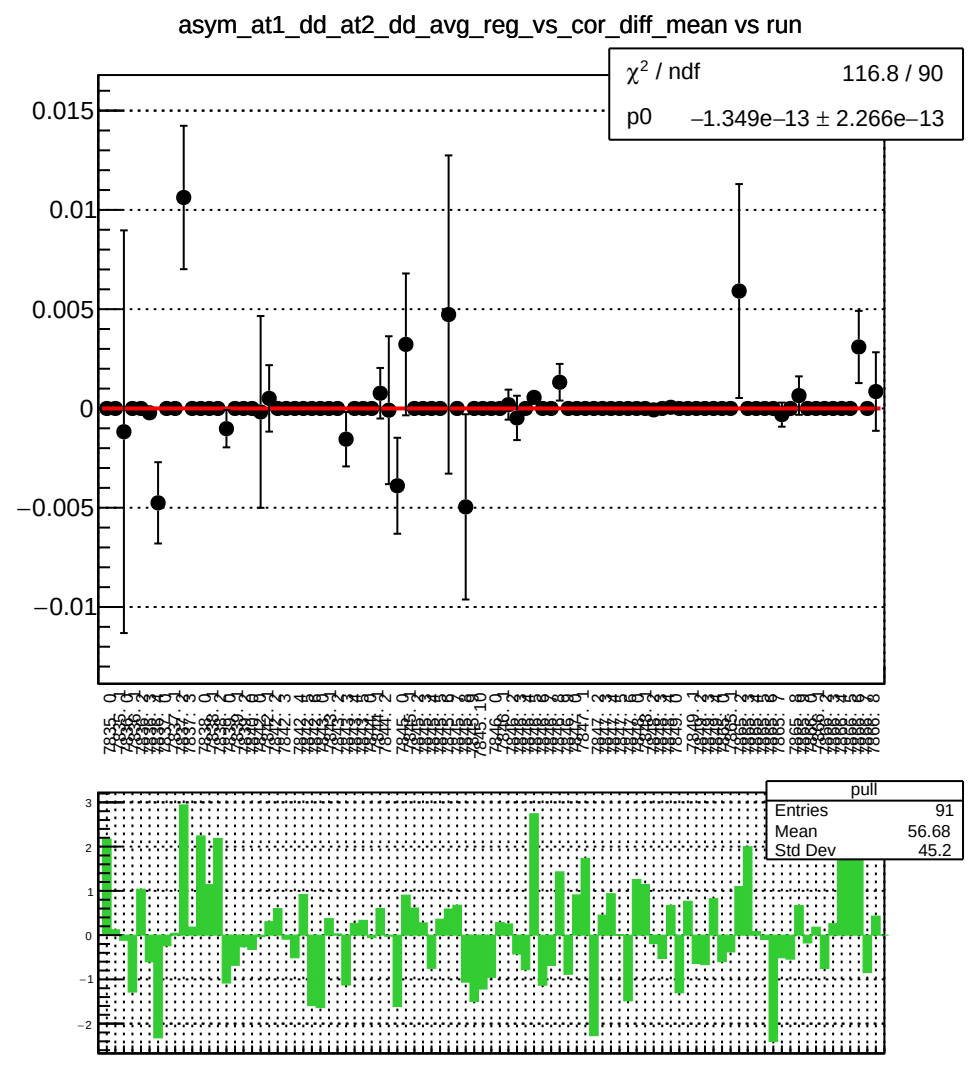

pull1D
Entries 91
Mean 0.01659
Std Dev 0.929

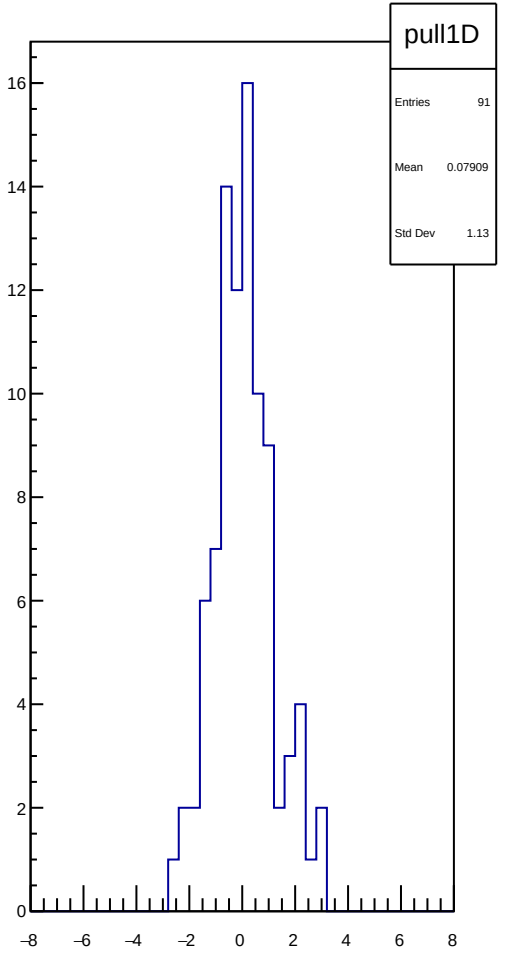

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 90
p0 1671 ± 1.265
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

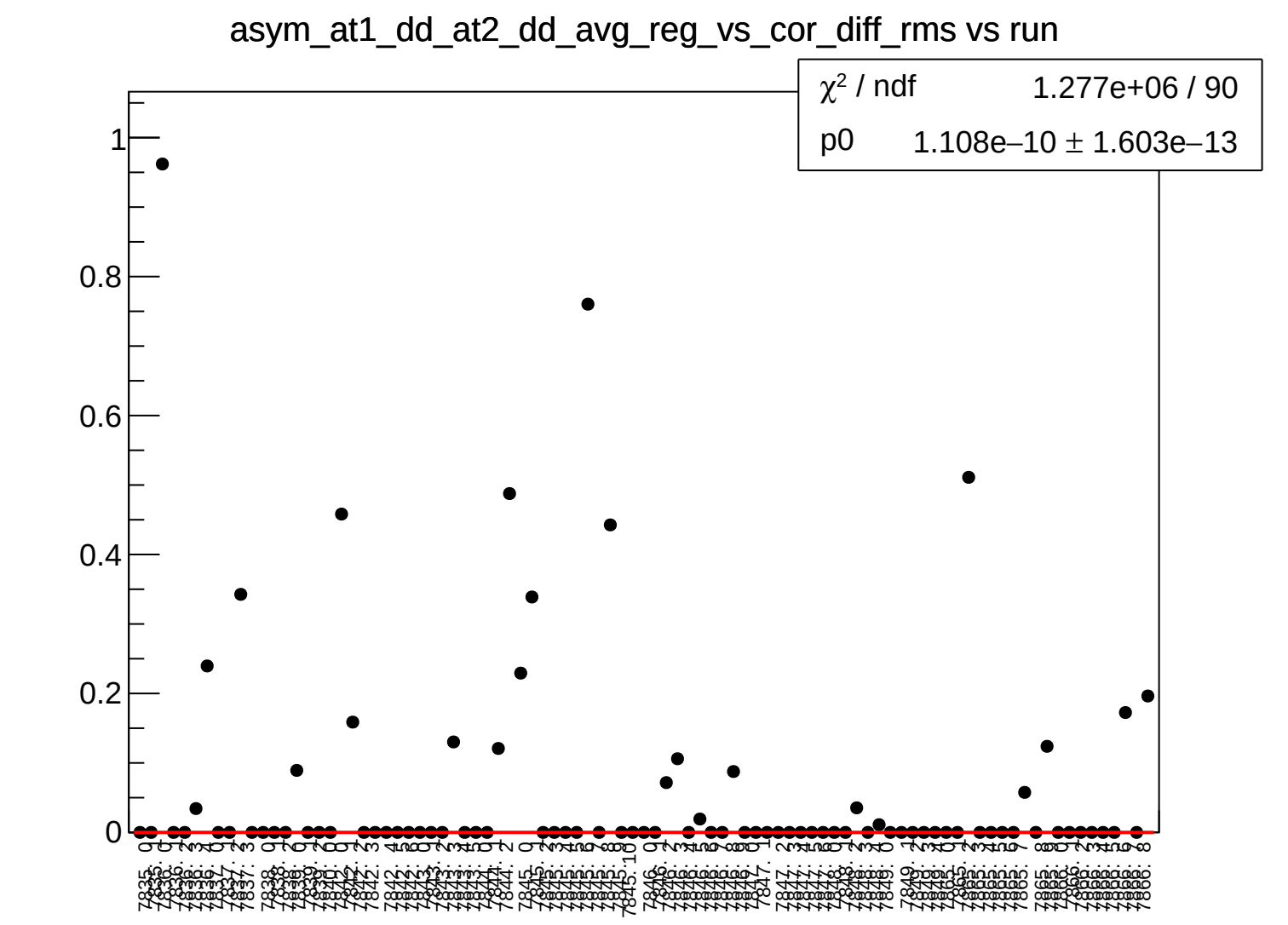

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80.49 / 90
p0 −619.2 ± 2218
pull
Entries 91
Mean 255.1
Std Dev 0

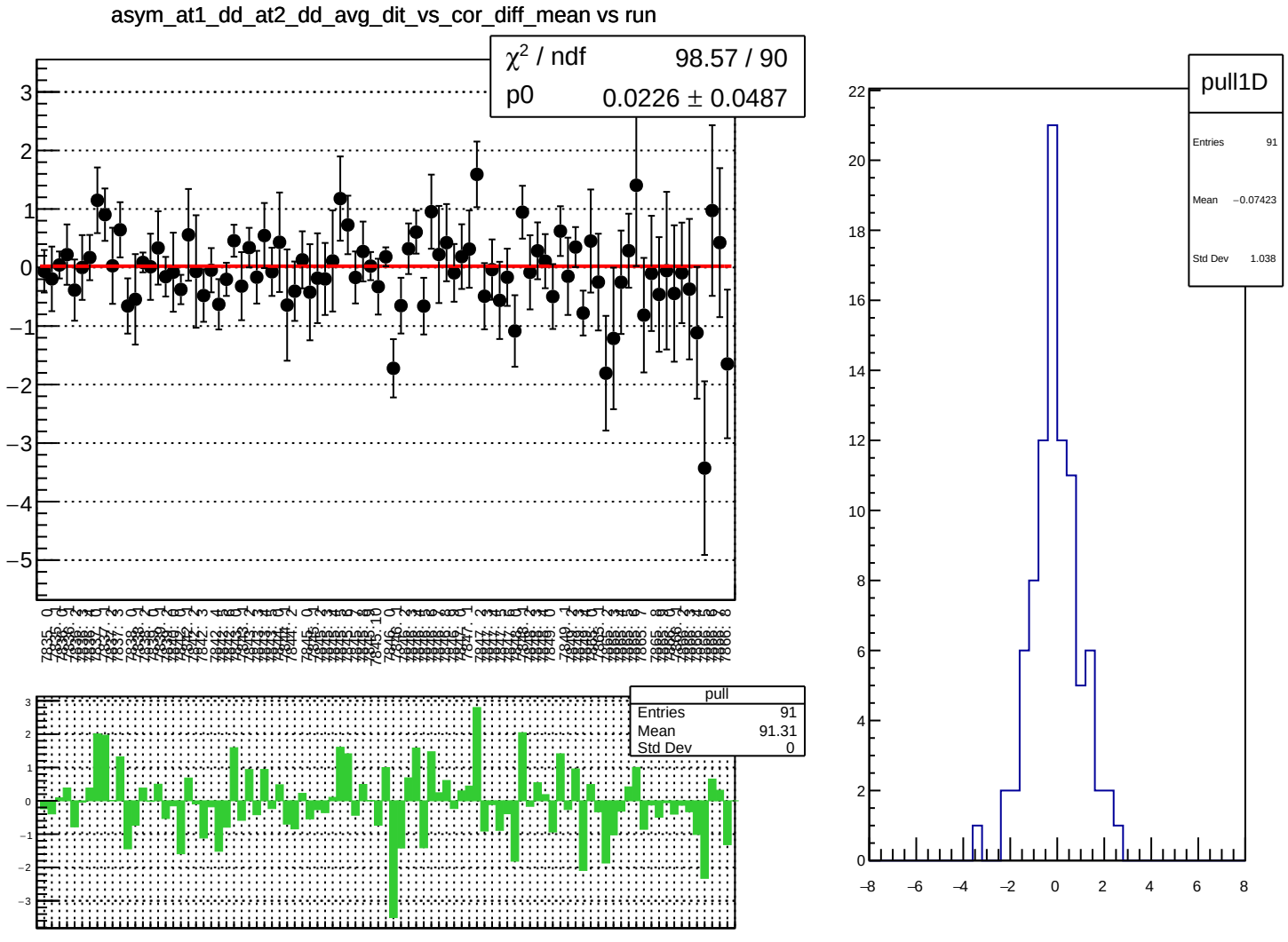

pull1D
Entries 91
Mean −0.01285
Std Dev 0.9404

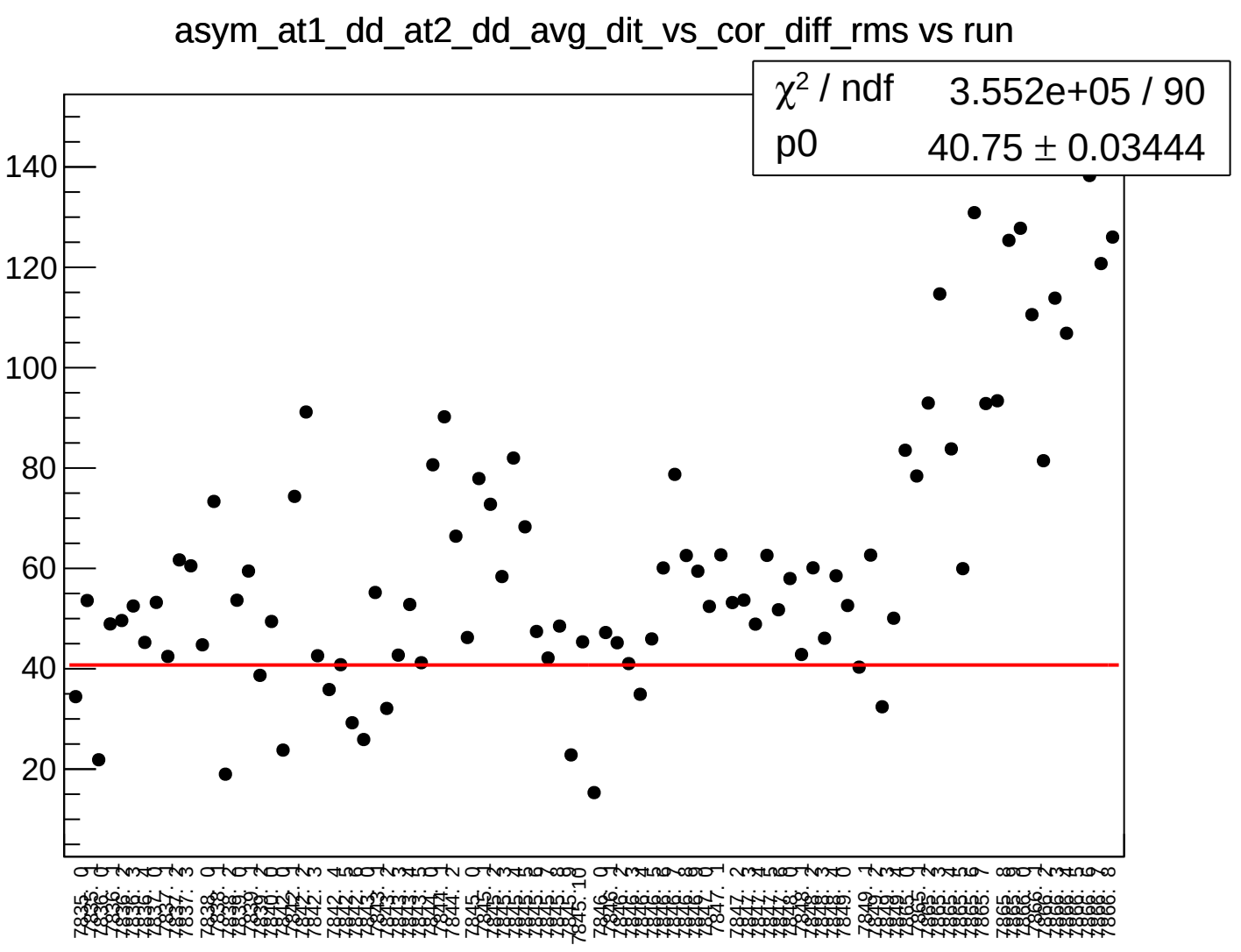

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 4880 / 90
p0 2075 ± 1.568
2600
2500
2400
2300
2200
2100
2000
1900

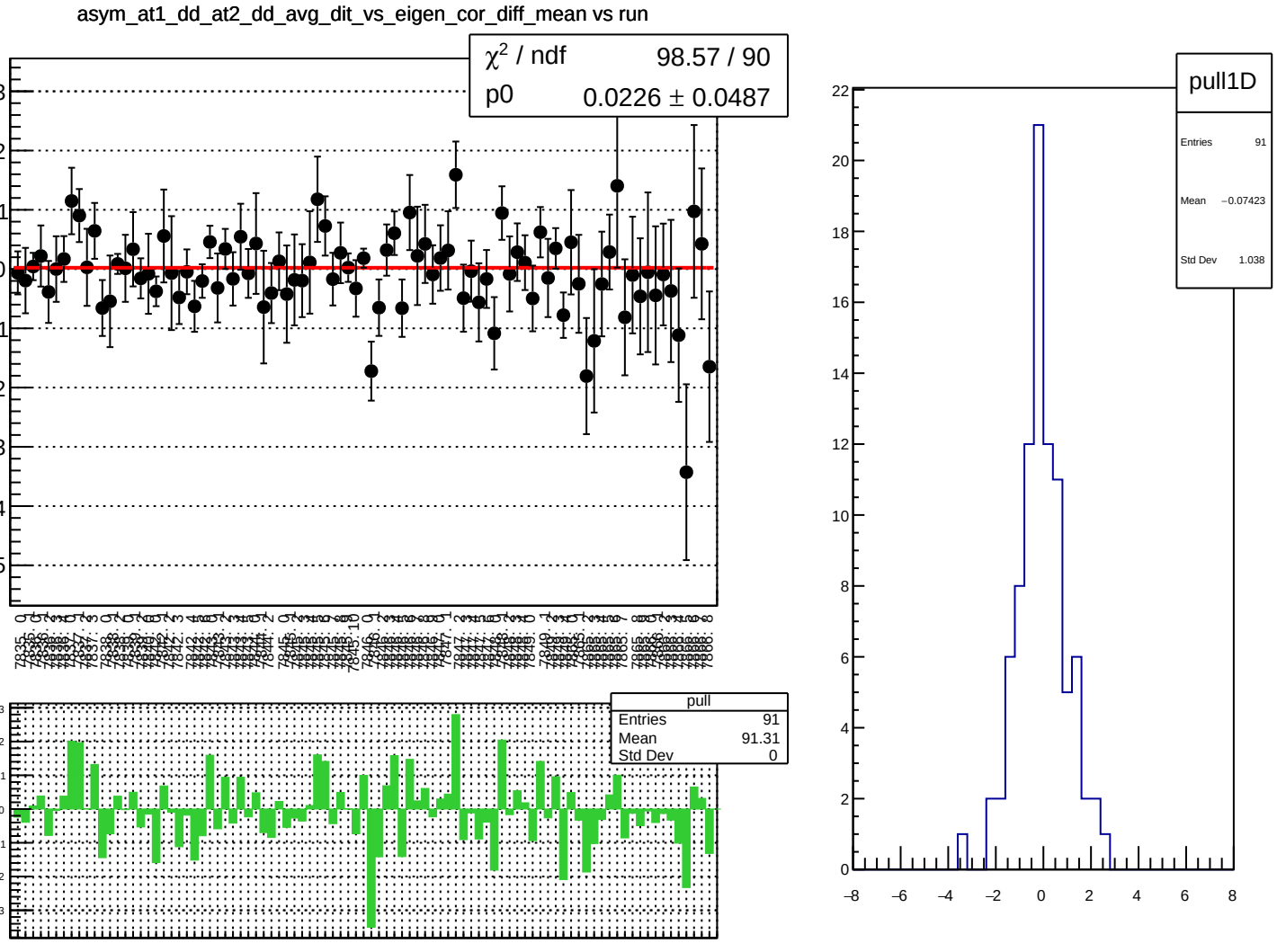

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 90
p0 −1.349e−13 ± 2.266e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 56.68
Std Dev 45.2
3
2
1
0
−1
−2

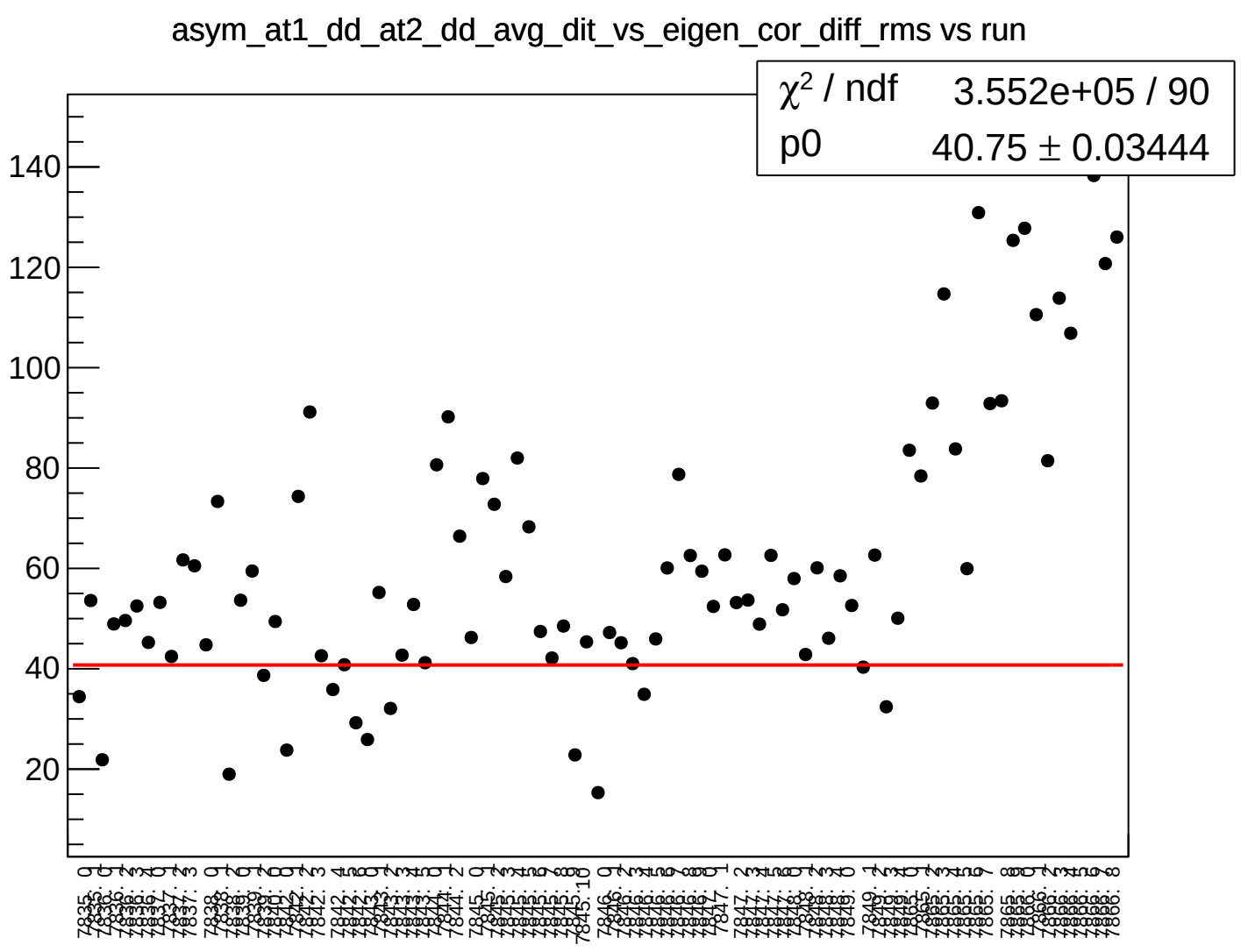

pull1D
Entries 91
Mean 0.07909
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

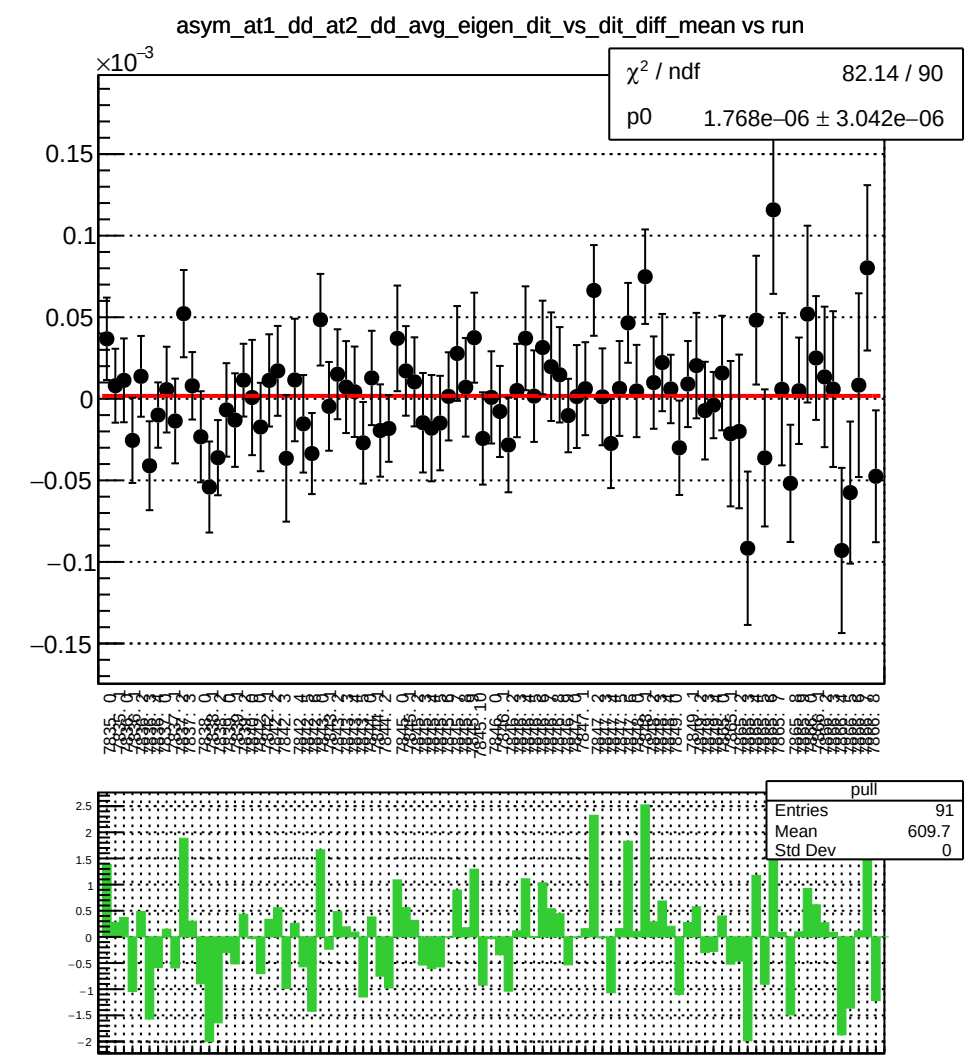

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.277e+06 / 90
p0 1.108e−10 ± 1.603e−13
1
0.8
0.6
0.4
0.2
0

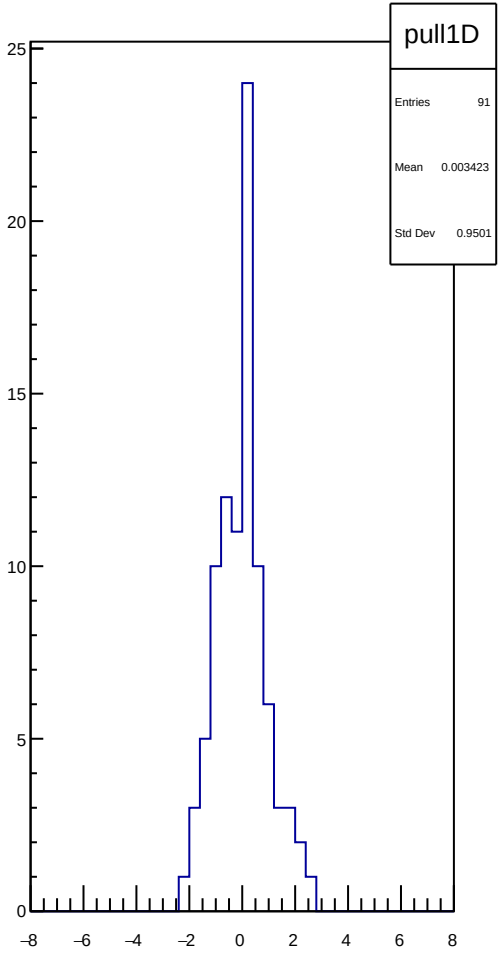

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.0487
pull
Entries 91
Mean 91.31
Std Dev 0
pull1D
Entries 91
Mean −0.07423
Std Dev 1.038

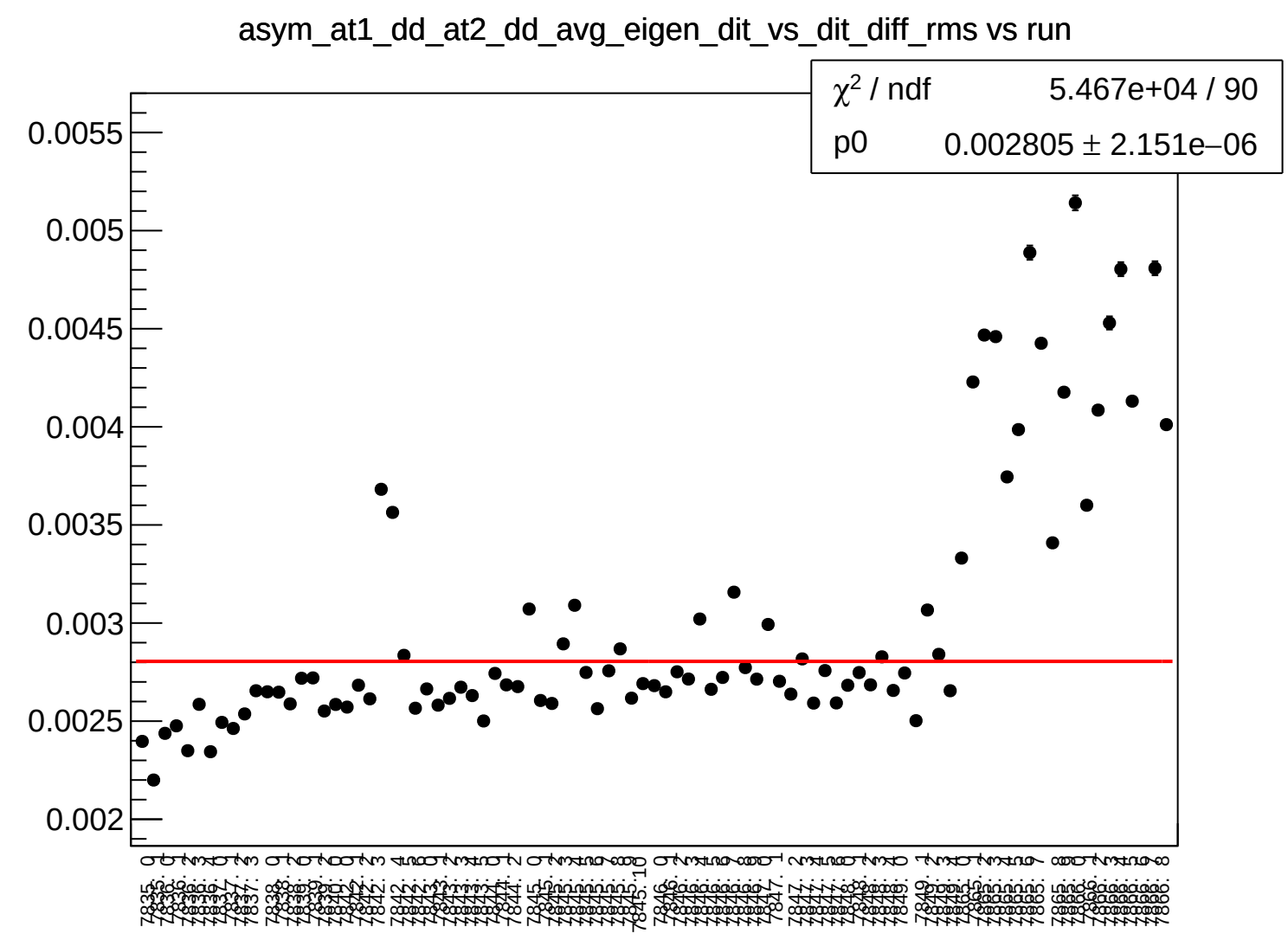

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

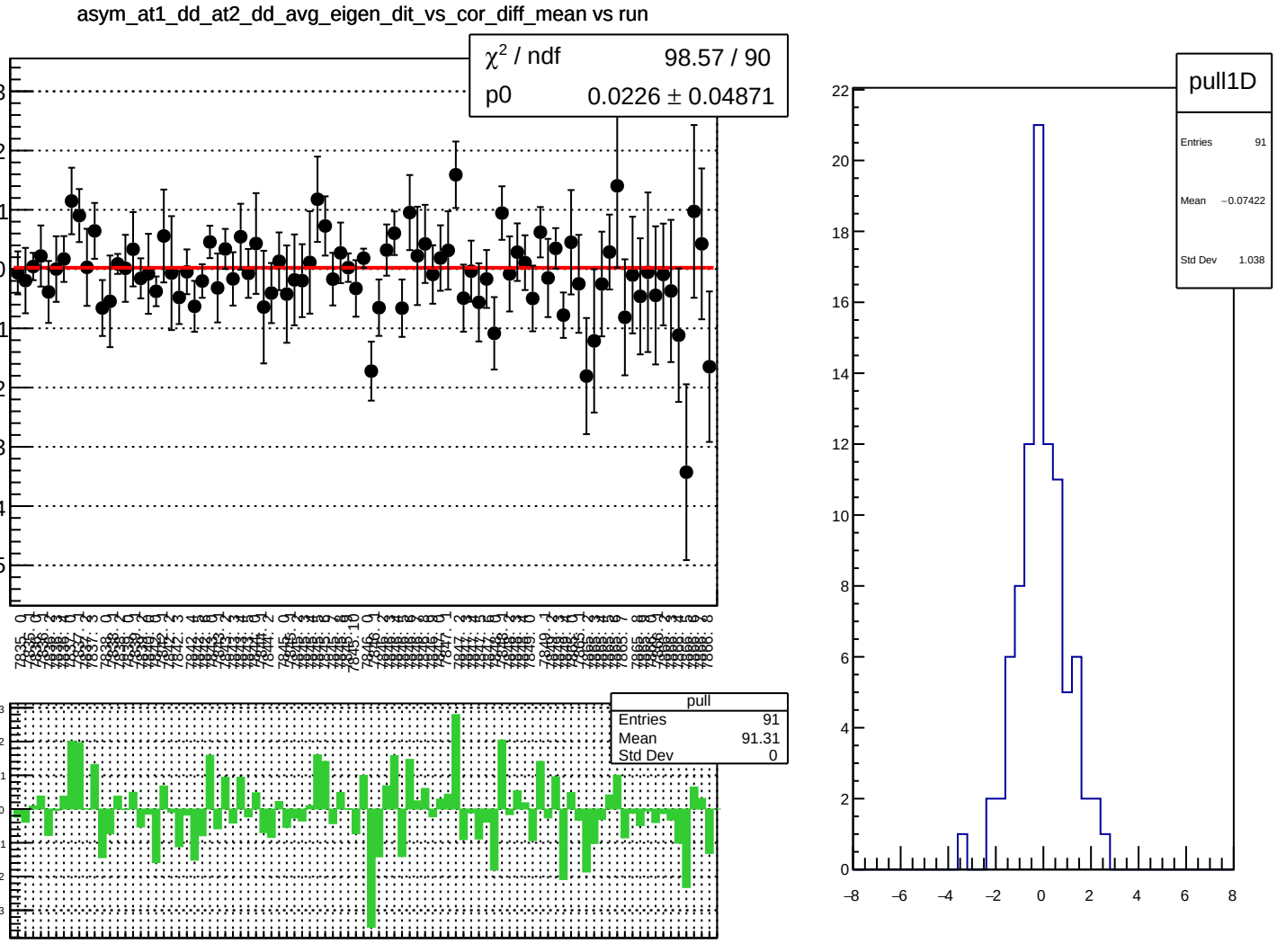

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.0487
pull
Entries 91
Mean 91.31
Std Dev 0
pull1D
Entries 91
Mean −0.07423
Std Dev 1.038

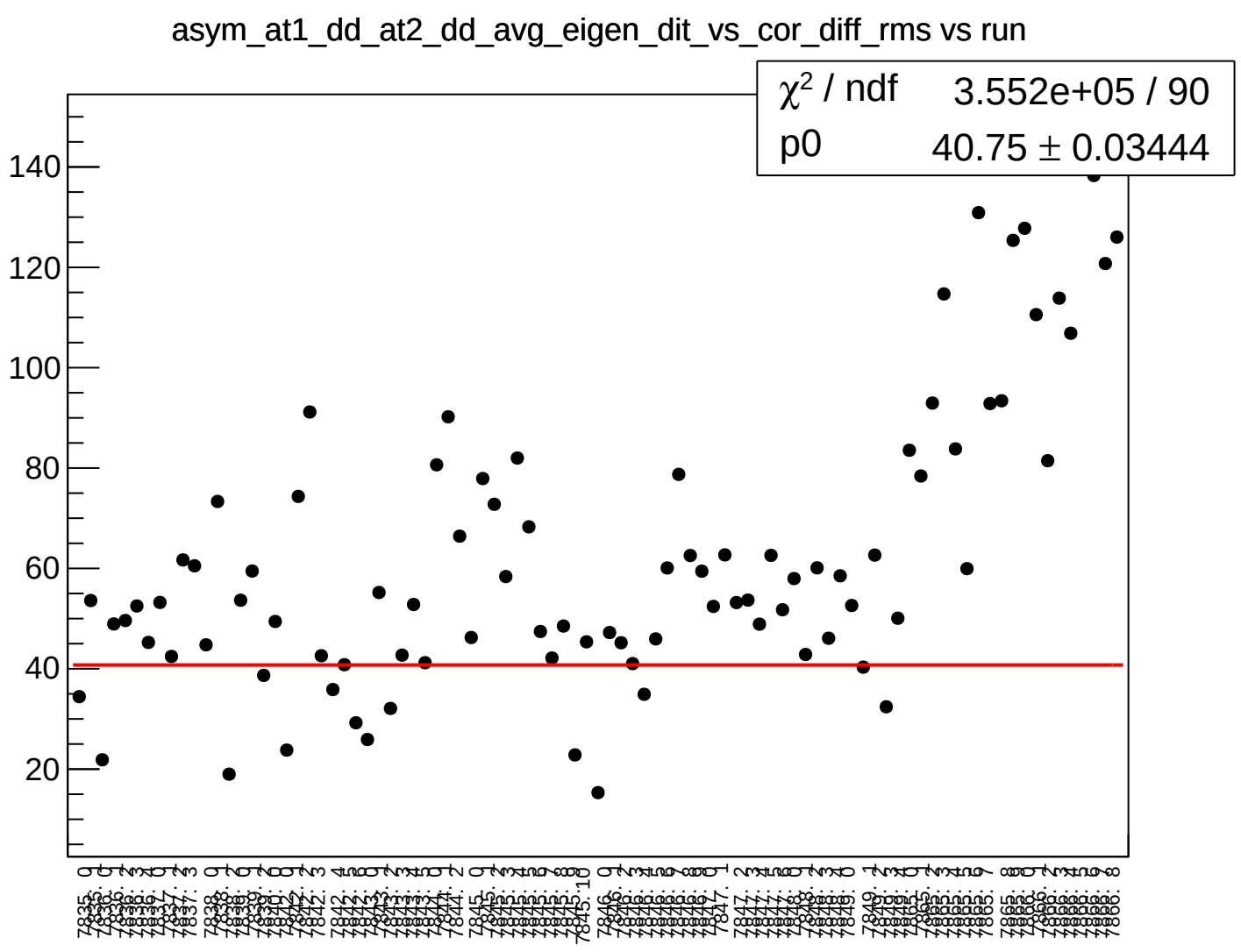

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

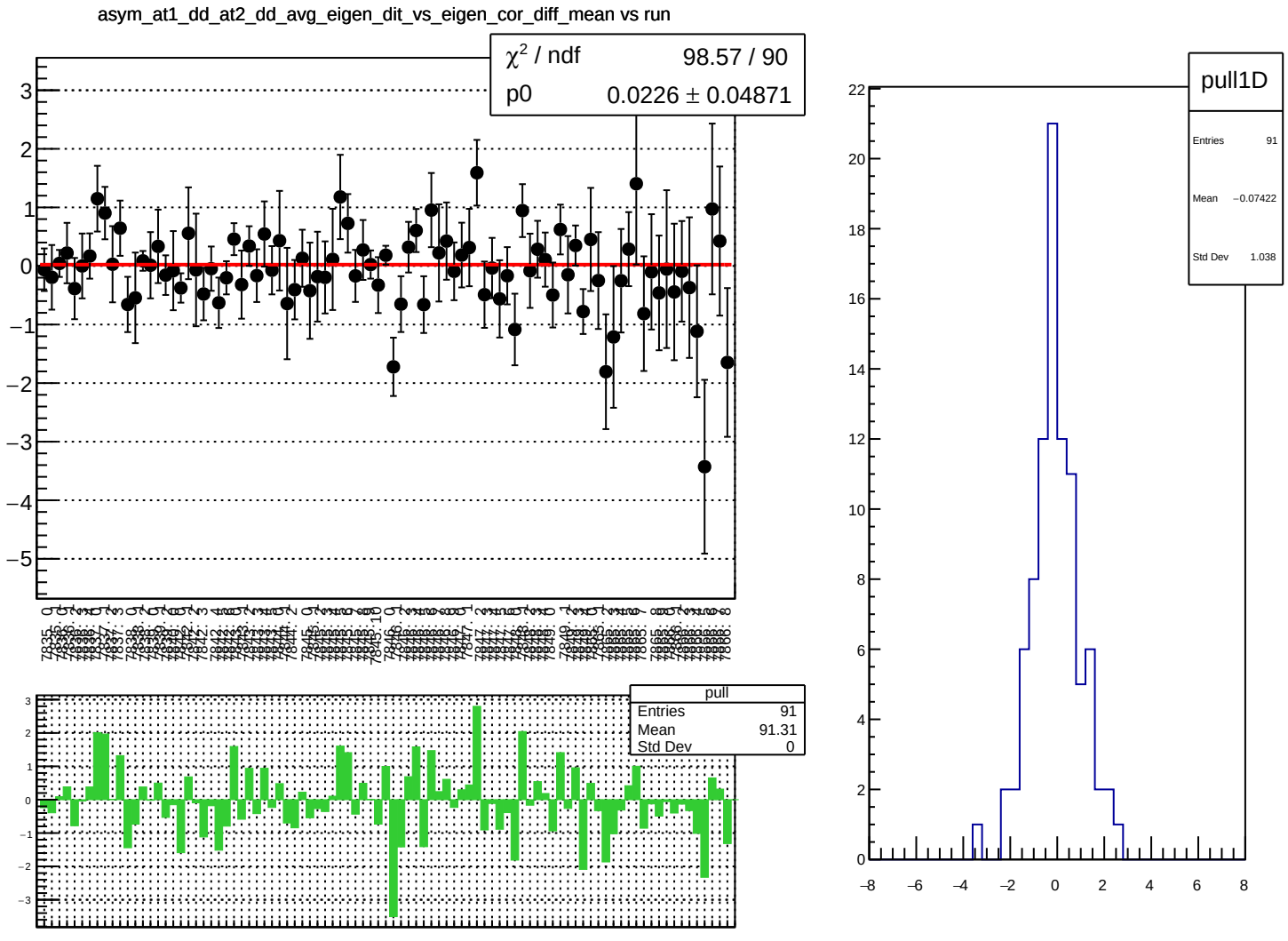

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.14 / 90
p0 1.768e−06 ± 3.042e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 609.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

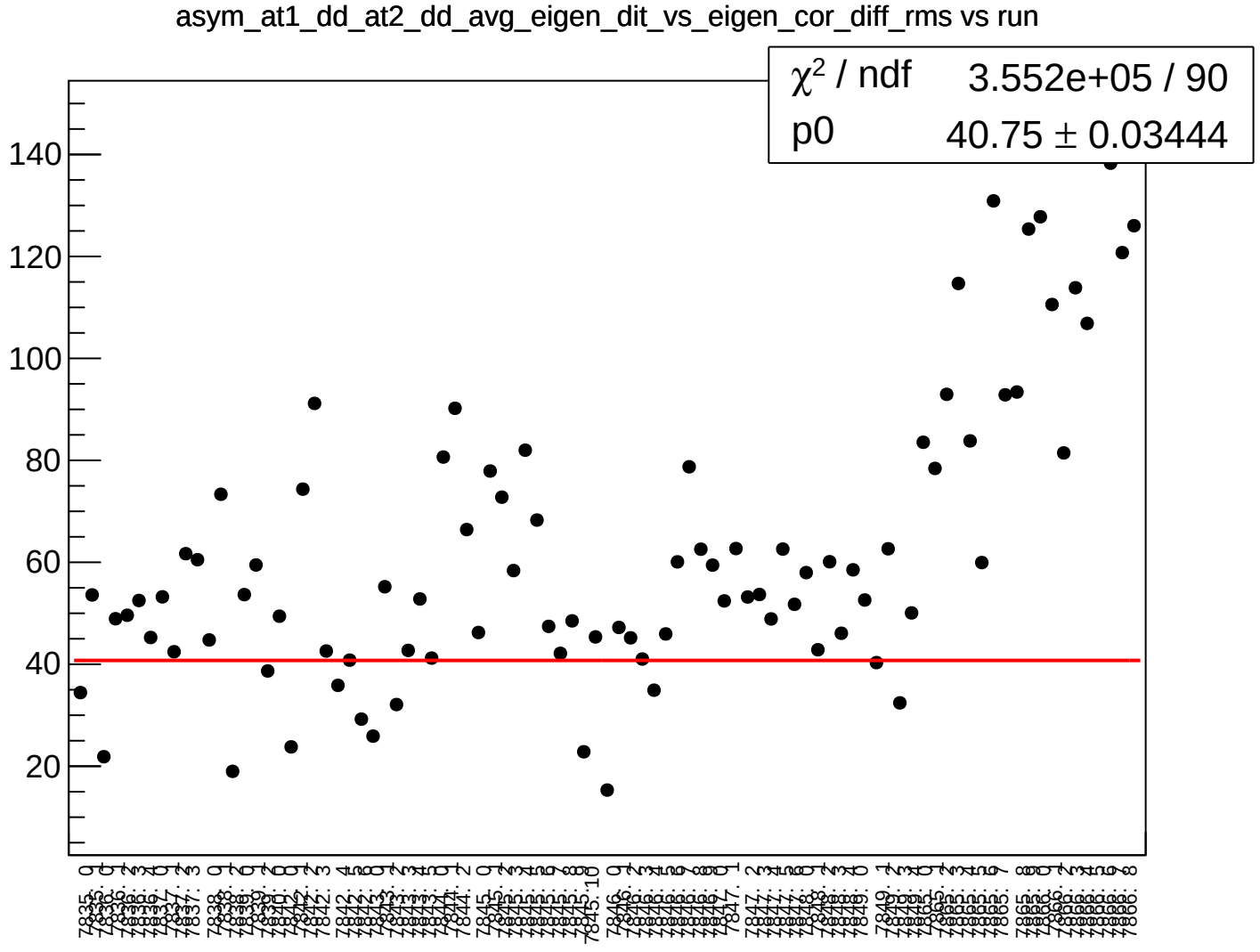

pull1D
Entries 91
Mean 0.003423
Std Dev 0.9501
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

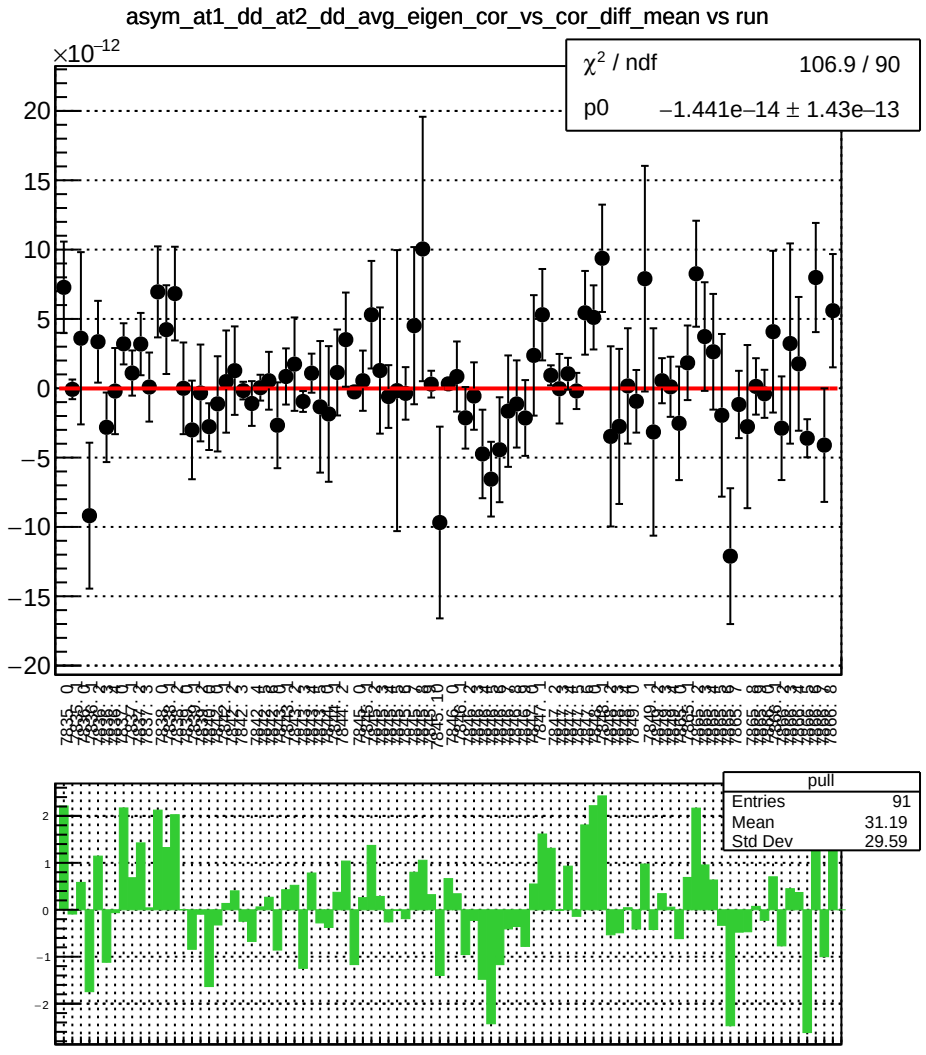

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.467e+04 / 90
p0 0.002805 ± 2.151e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

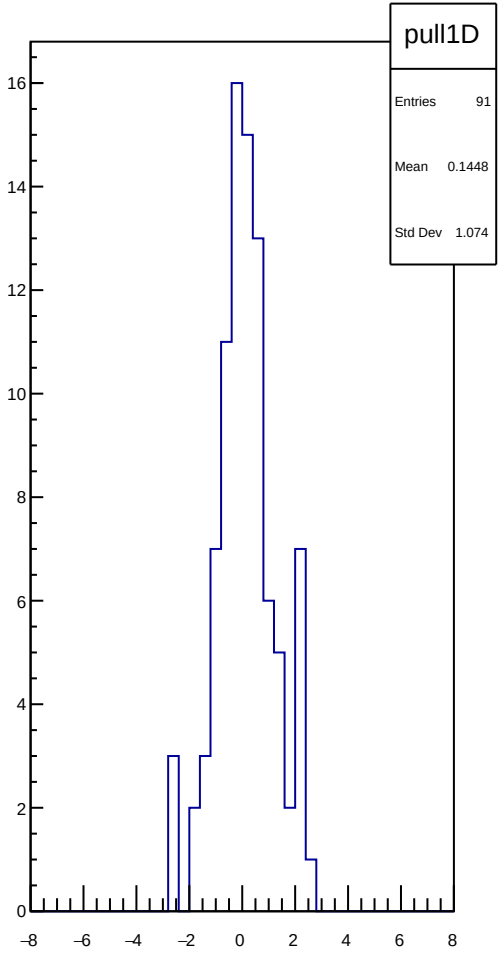

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.04871
pull
Entries 91
Mean 91.31
Std Dev 0
pull1D
Entries 91
Mean −0.07422
Std Dev 1.038

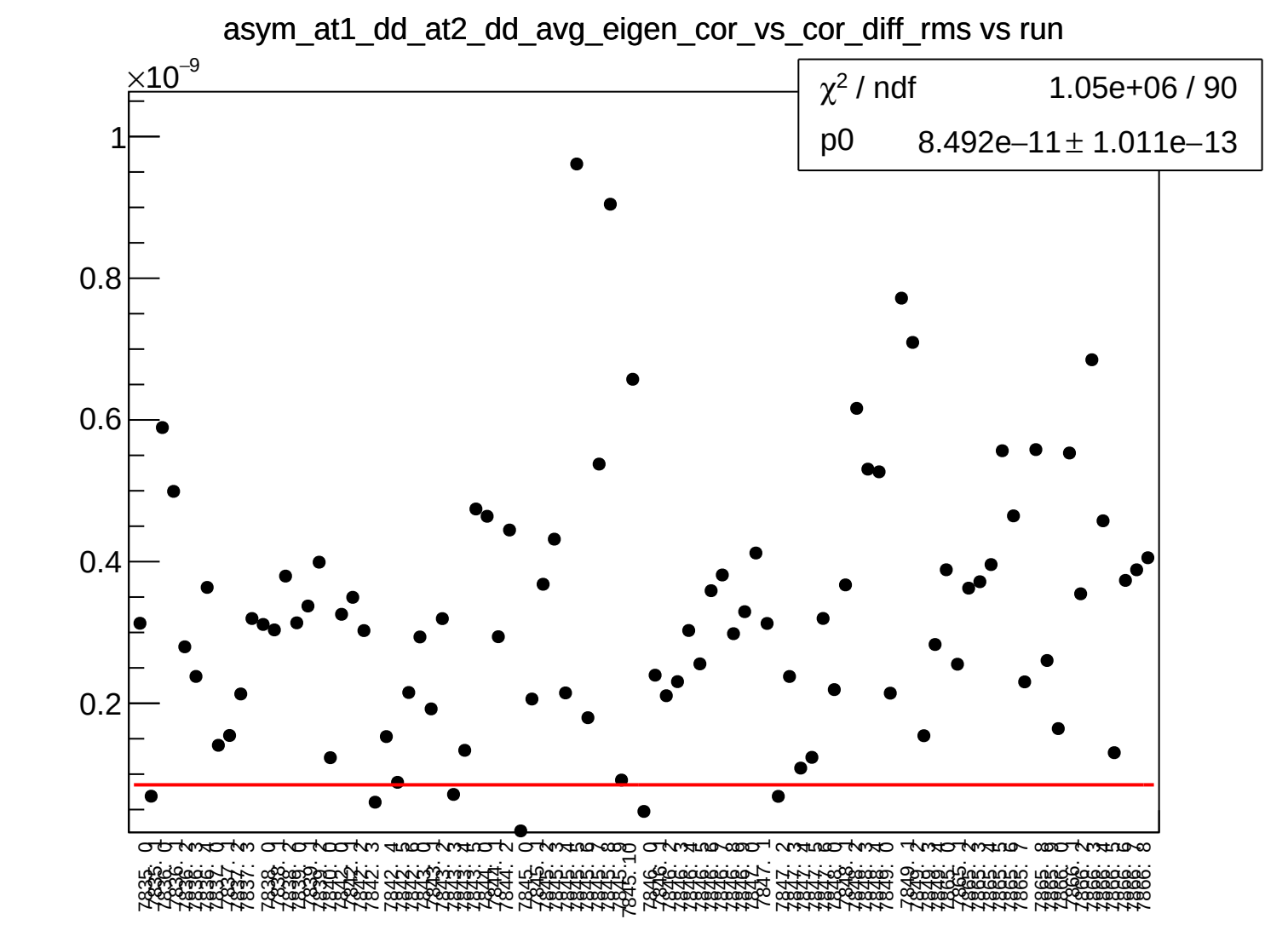

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

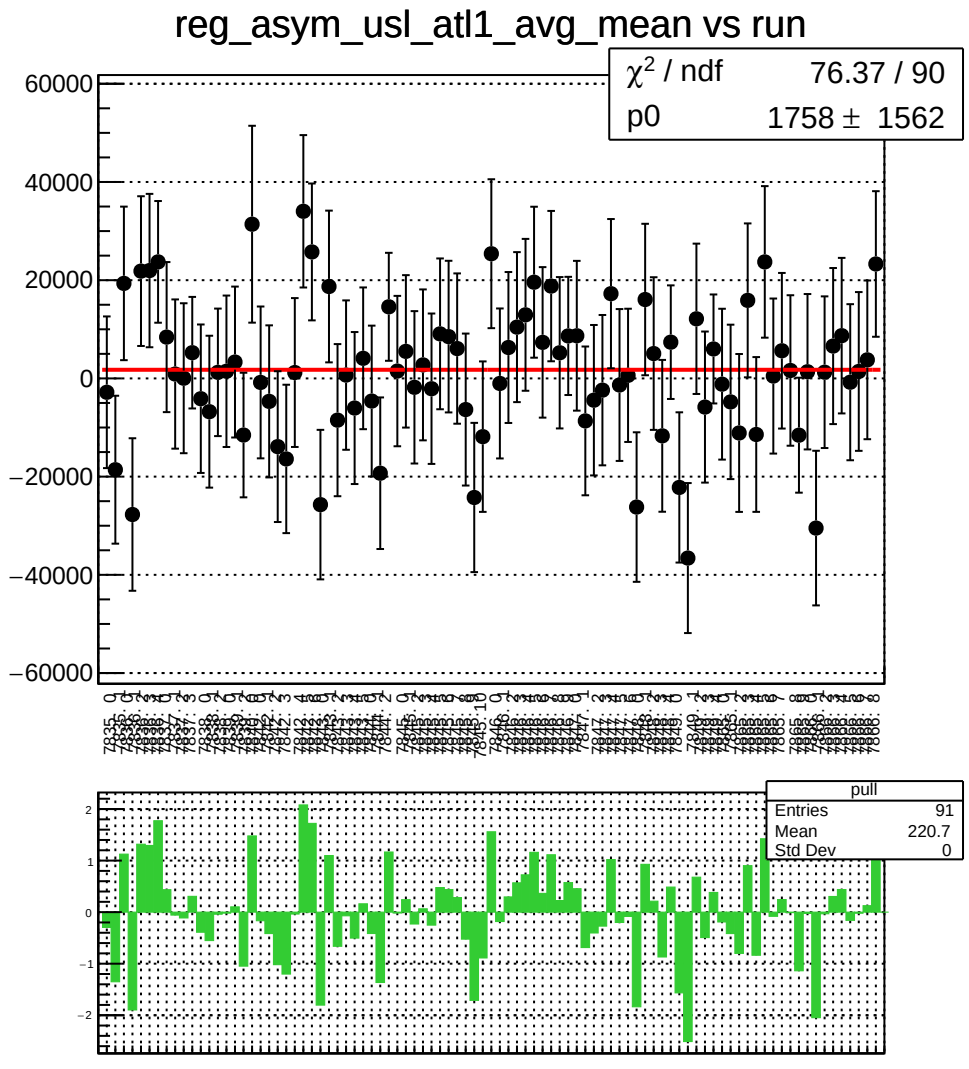

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.57 / 90
p0 0.0226 ± 0.04871
pull
Entries 91
Mean 91.31
Std Dev 0
pull1D
Entries 91
Mean −0.07422
Std Dev 1.038

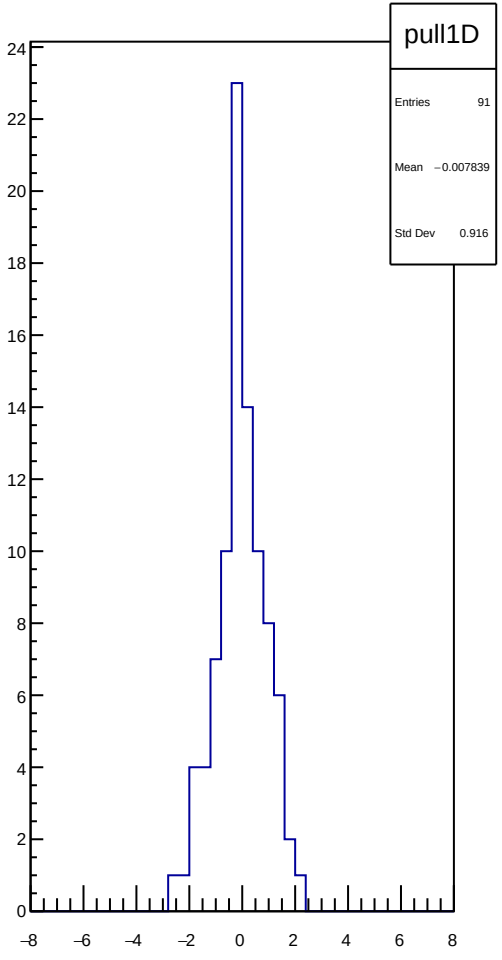

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.552e+05 / 90
p0 40.75 ± 0.03444
140
120
100
80
60
40
20

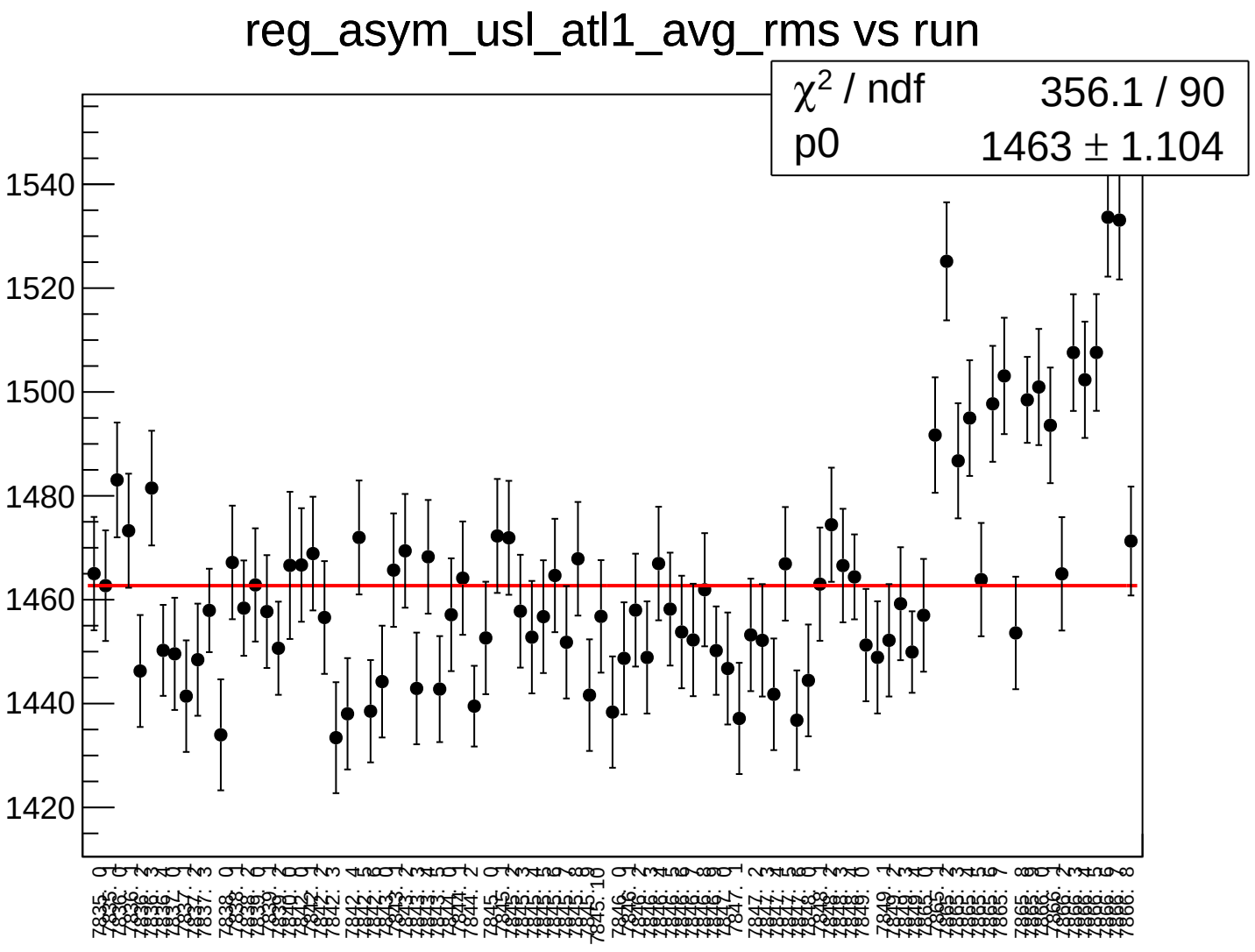

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.9 / 90
p0 −1.441e−14 ± 1.43e−13
pull
Entries 91
Mean 31.19
Std Dev 29.59

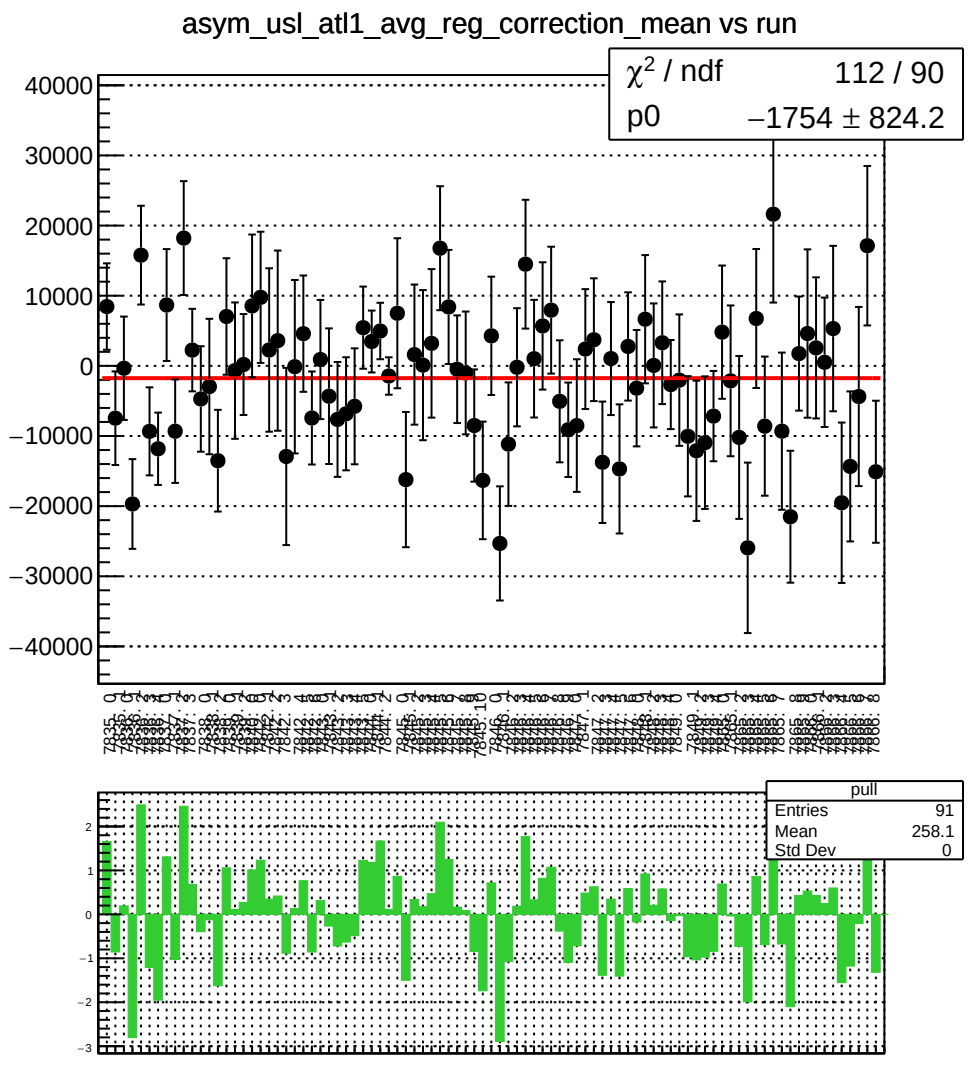

pull1D
Entries 91
Mean 0.1448
Std Dev 1.074

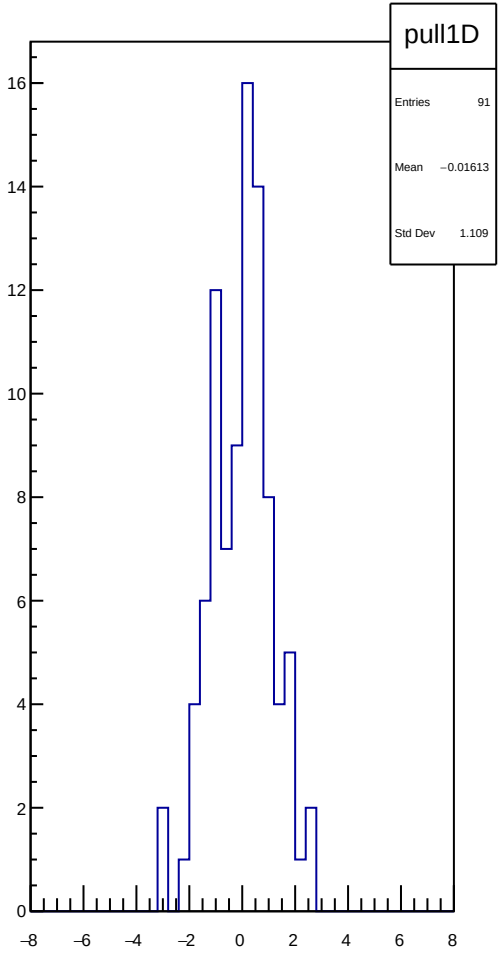

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.05e+06 / 90
p0 8.492e−11 ± 1.011e−13
1
0.8
0.6
0.4
0.2

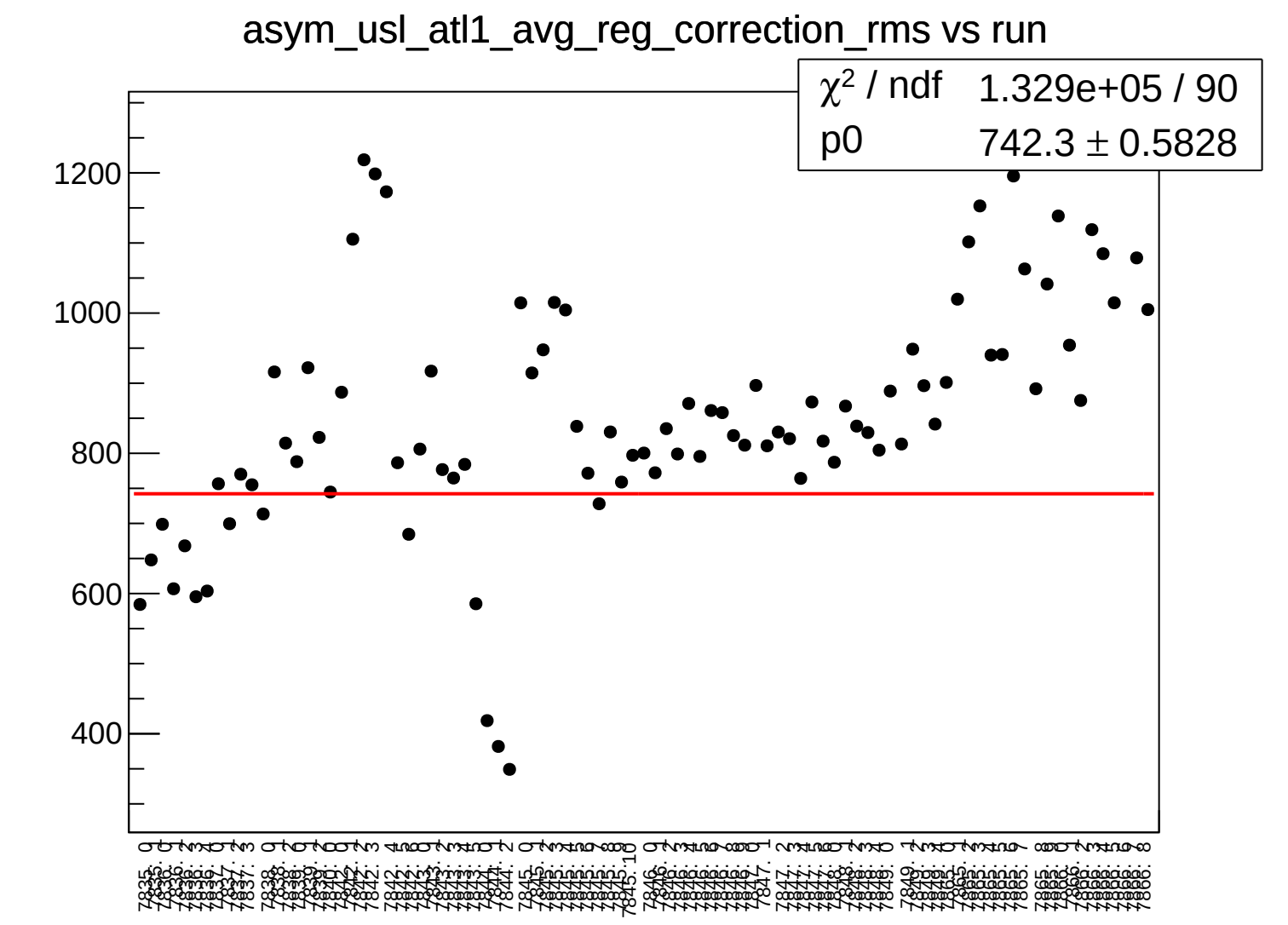

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.37 / 90
p0 1758 ± 1562
pull
Entries 91
Mean 220.7
Std Dev 0

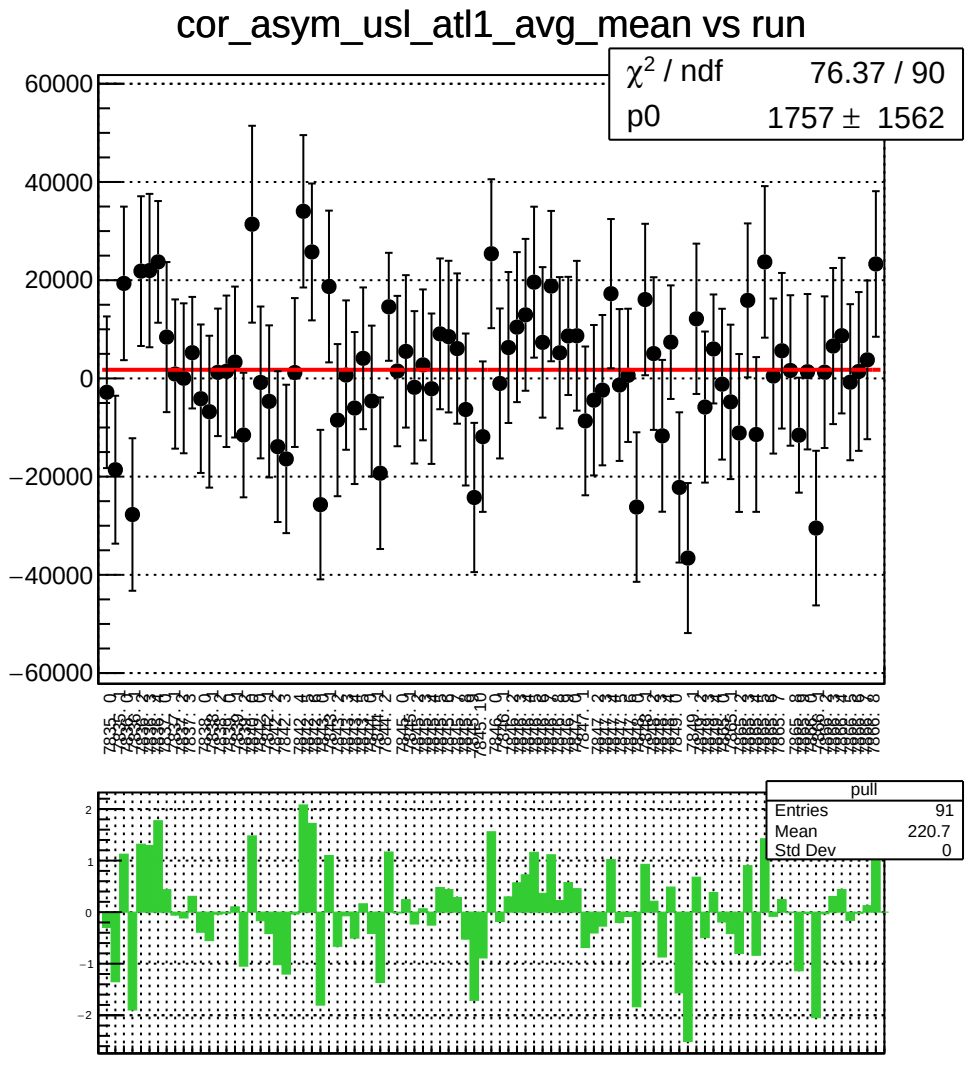

pull1D
Entries 91
Mean −0.007839
Std Dev 0.916

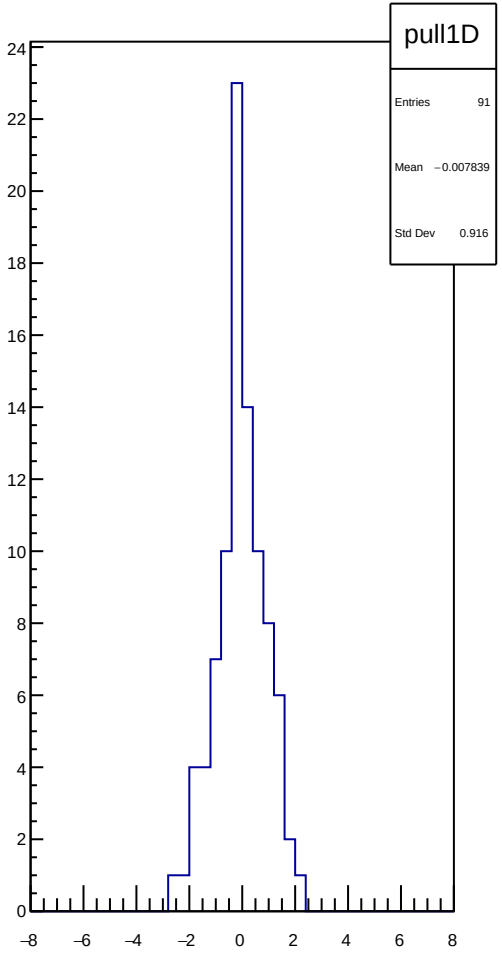

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 356.1 / 90
p0 1463 ± 1.104
1540
1520
1500
1480
1460
1440
1420

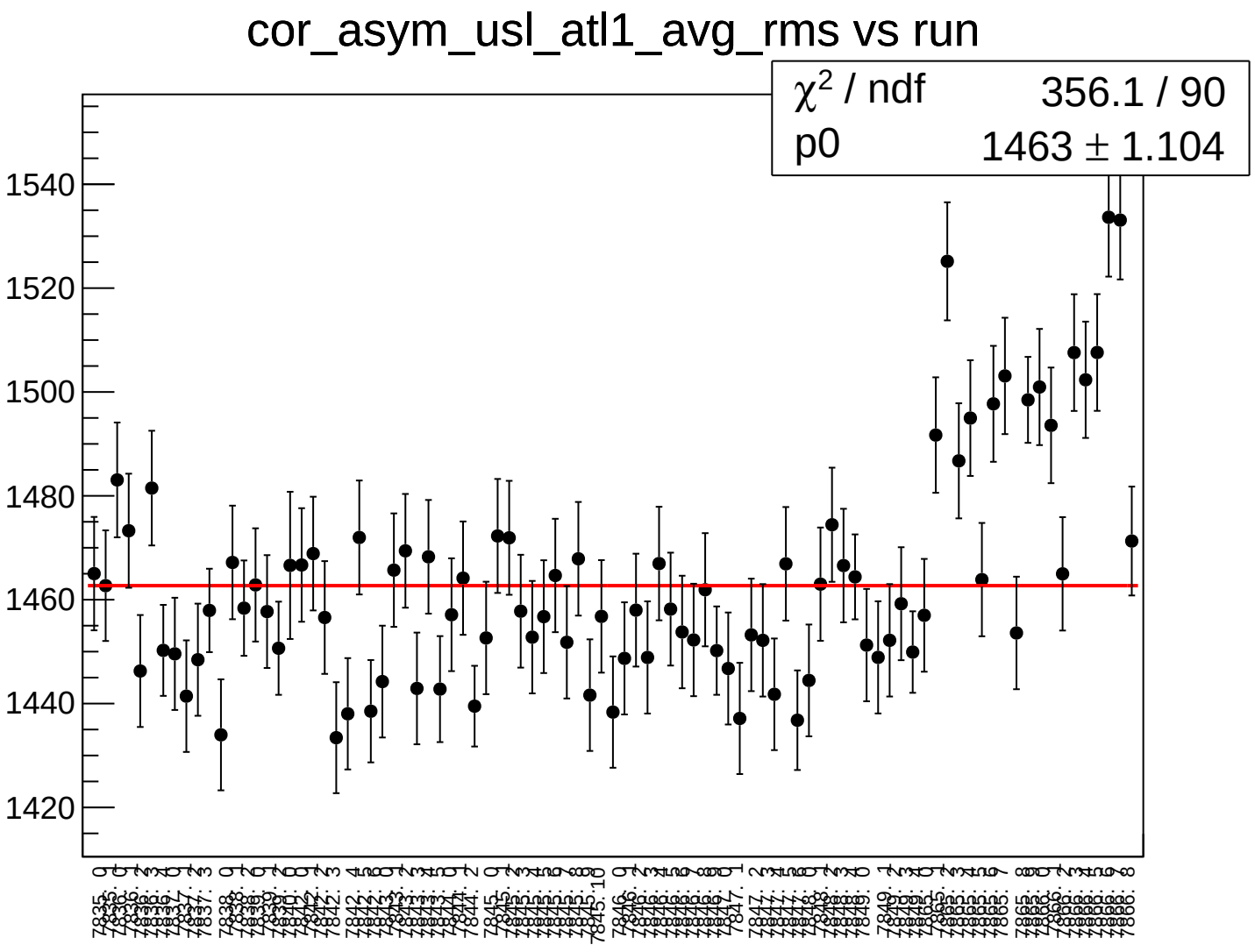

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 112 / 90
p0 −1754 ± 824.2
pull
Entries 91
Mean 258.1
Std Dev 0

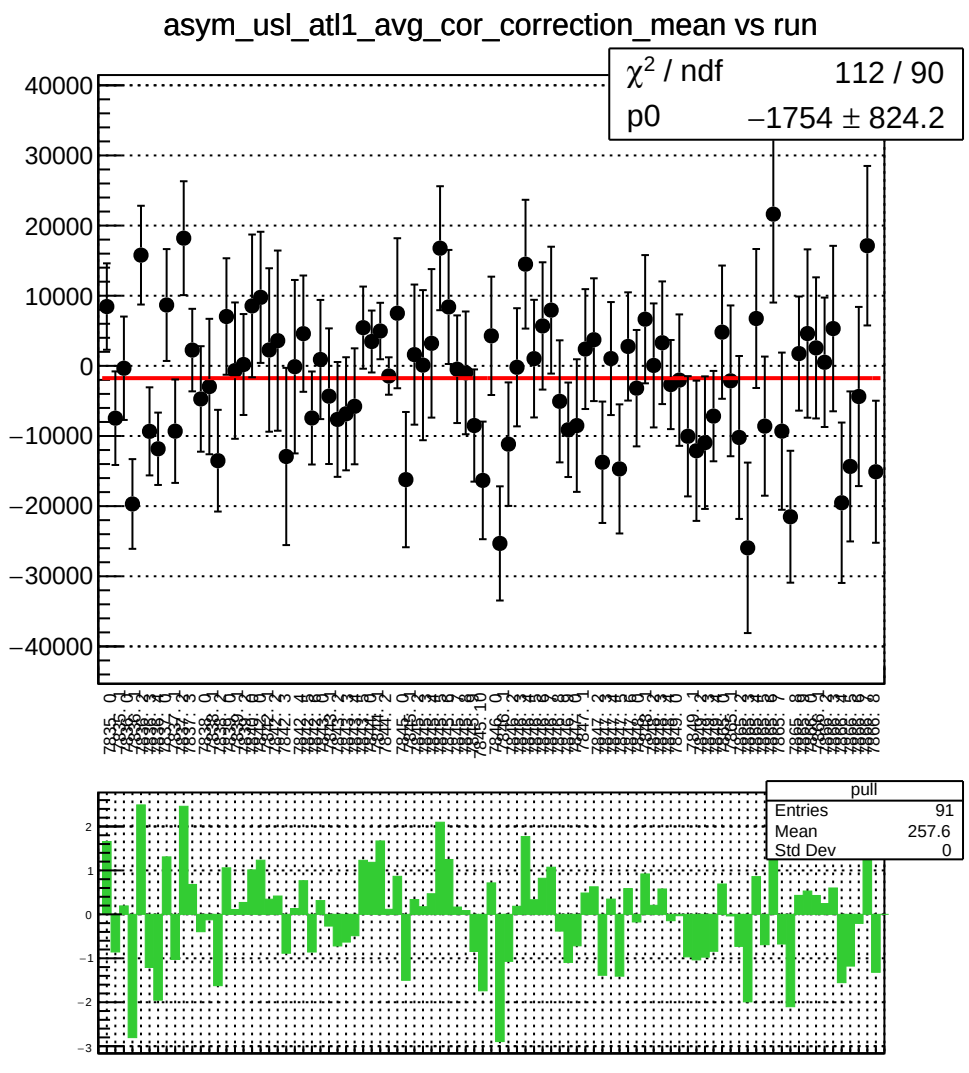

pull1D
Entries 91
Mean −0.01613
Std Dev 1.109

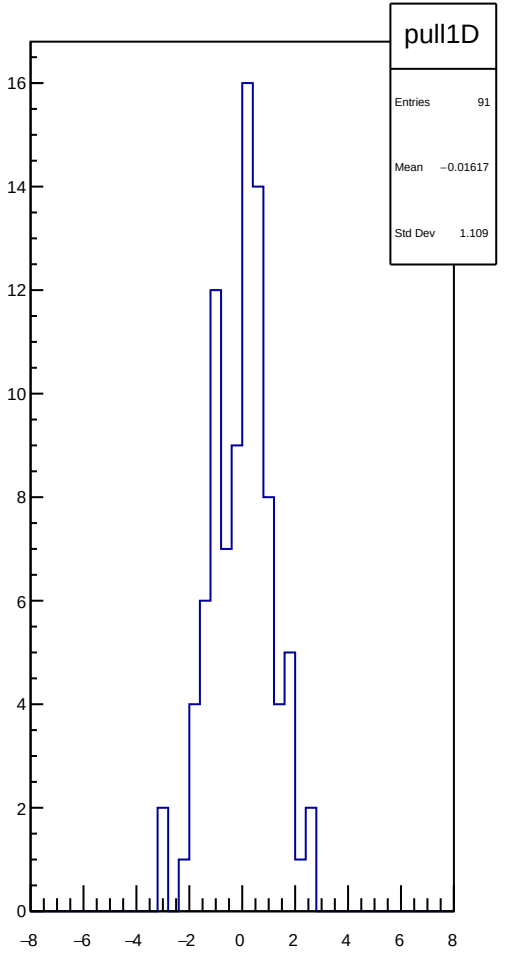

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.329e+05 / 90
p0 742.3 ± 0.5828
1200
1000
800
600
400

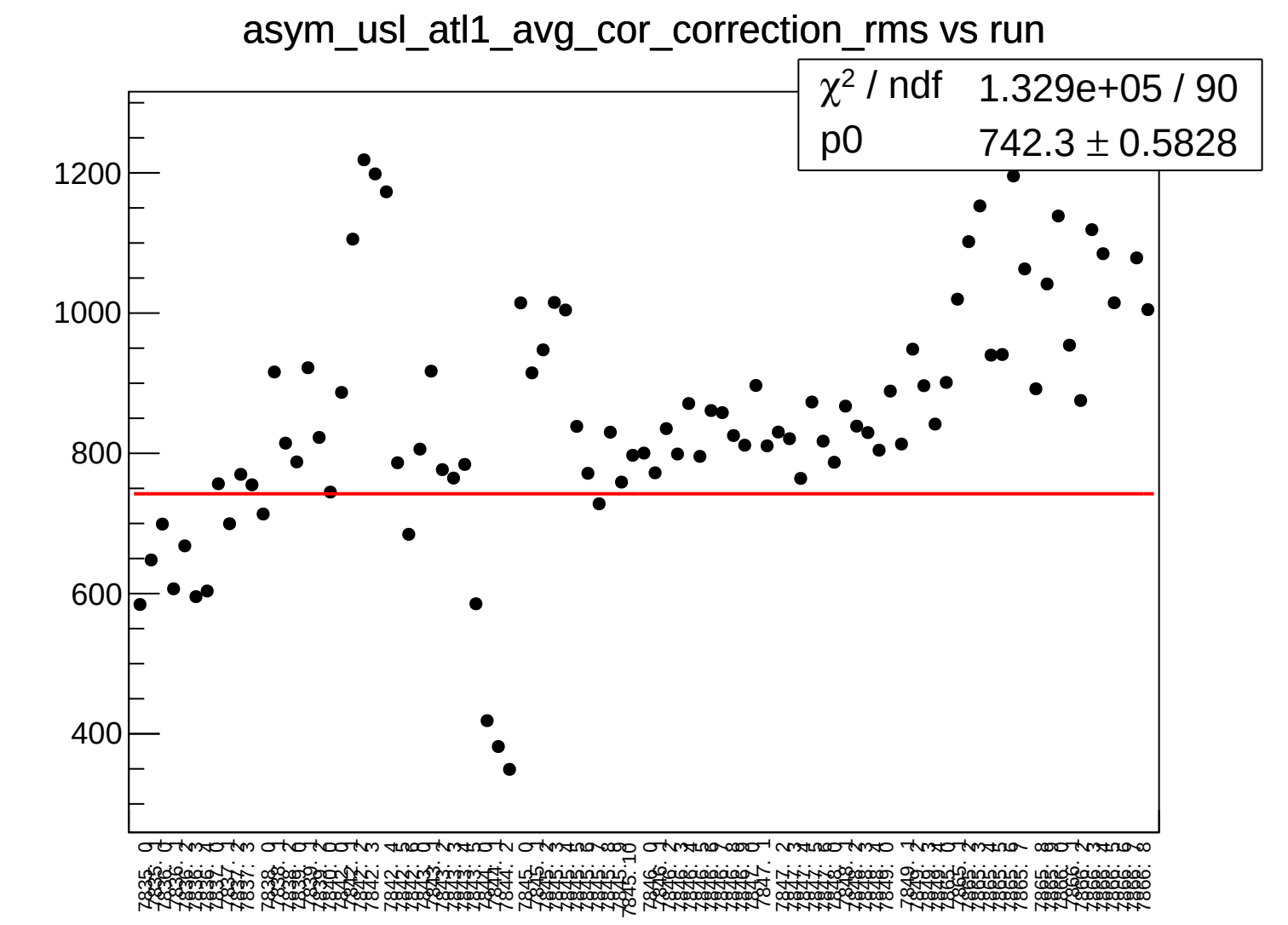

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.37 / 90
p0 1757 ± 1562
pull
Entries 91
Mean 220.7
Std Dev 0

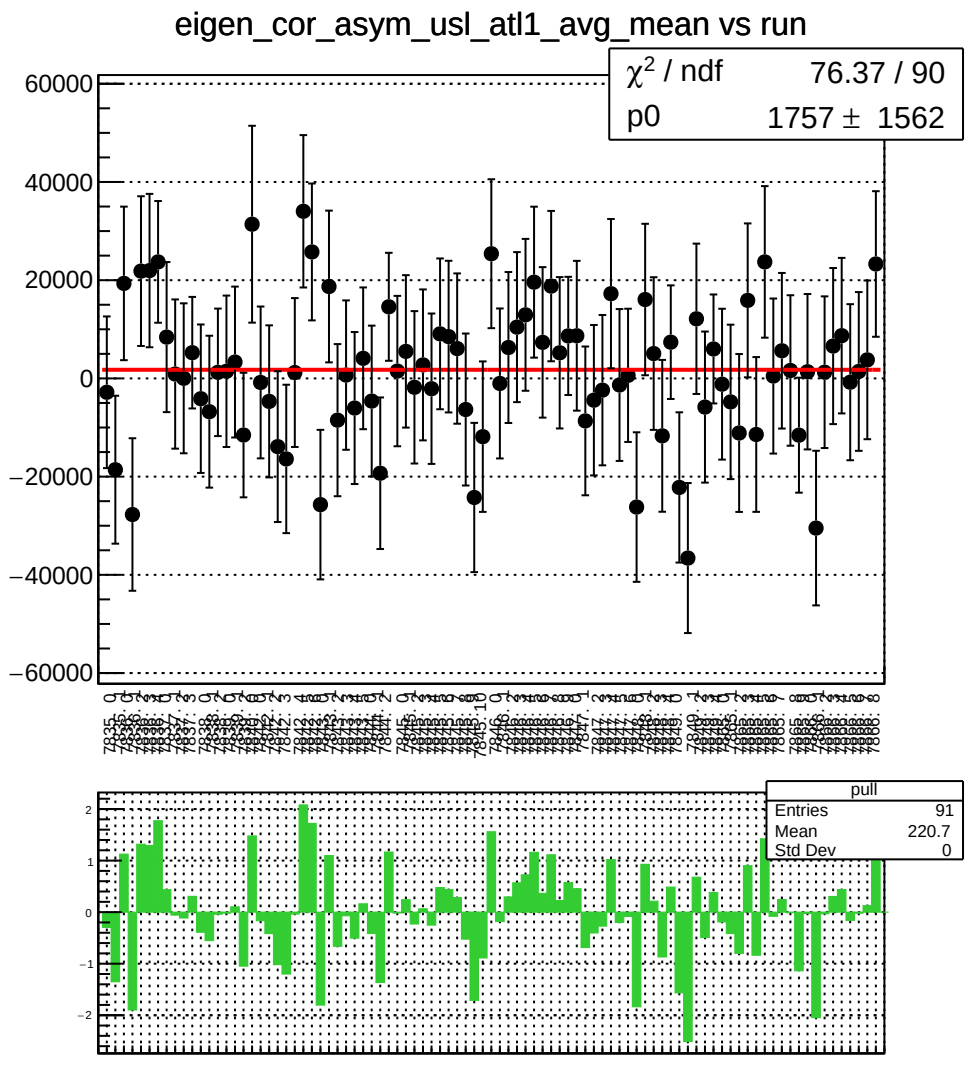

pull1D
Entries 91
Mean −0.007839
Std Dev 0.916

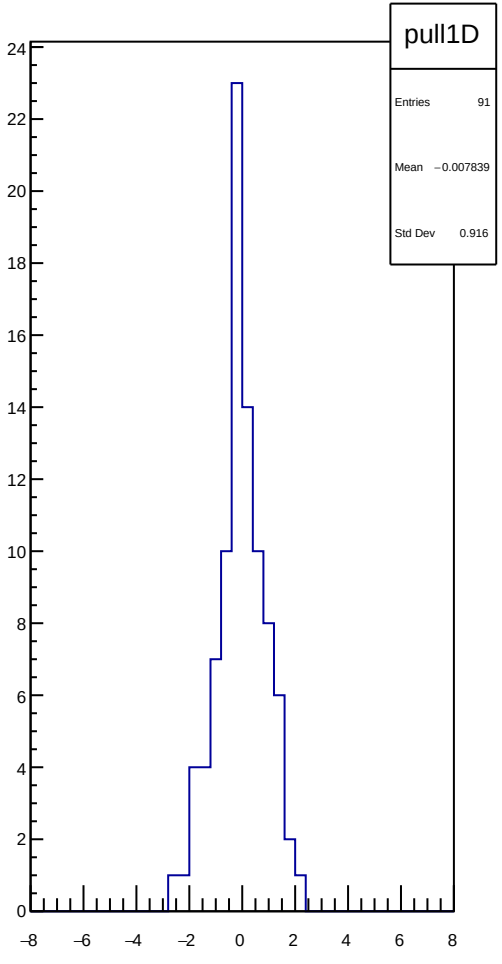

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 356.1 / 90
p0 1463 ± 1.104
1540
1520
1500
1480
1460
1440
1420

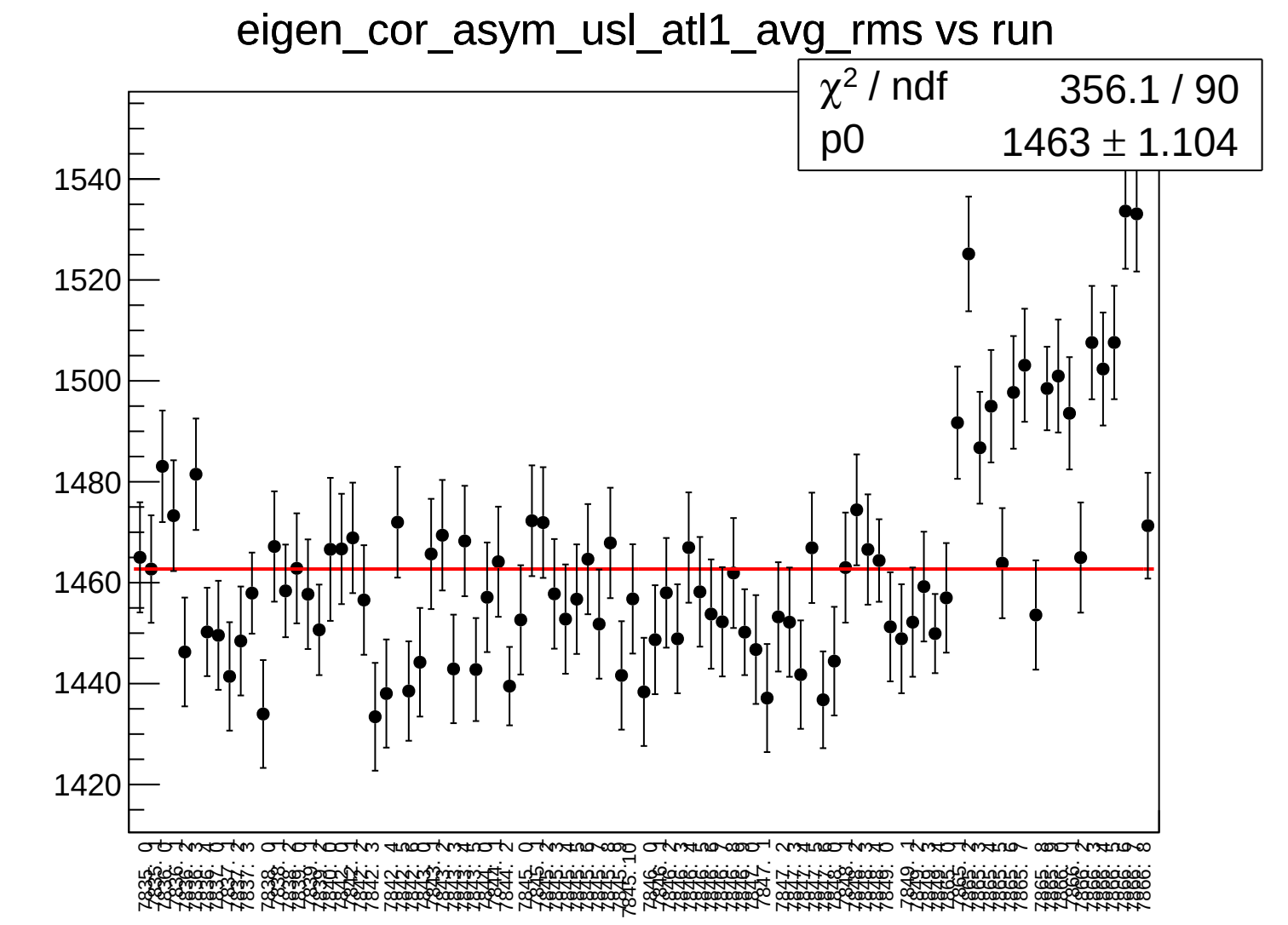

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 112 / 90
p0 −1754 ± 824.2
pull
Entries 91
Mean 257.6
Std Dev 0

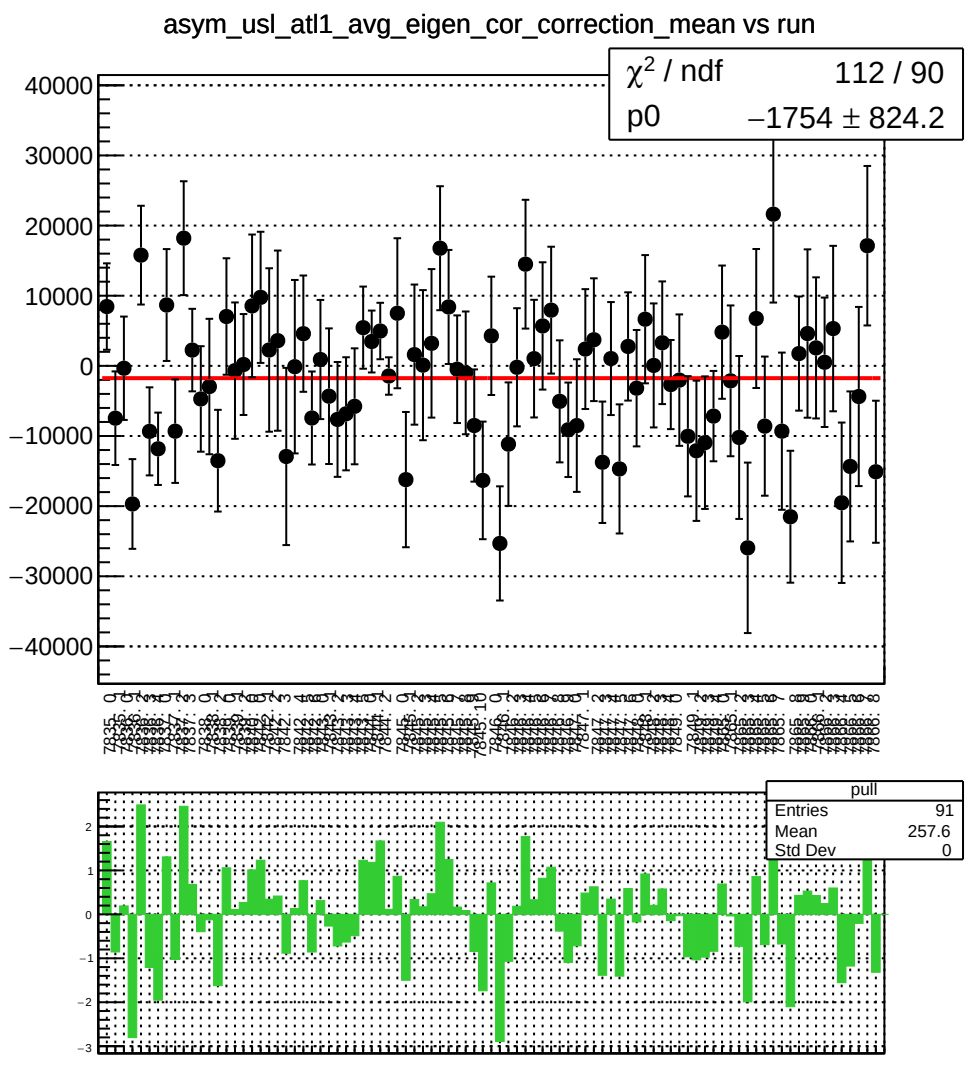

pull1D
Entries 91
Mean −0.01617
Std Dev 1.109

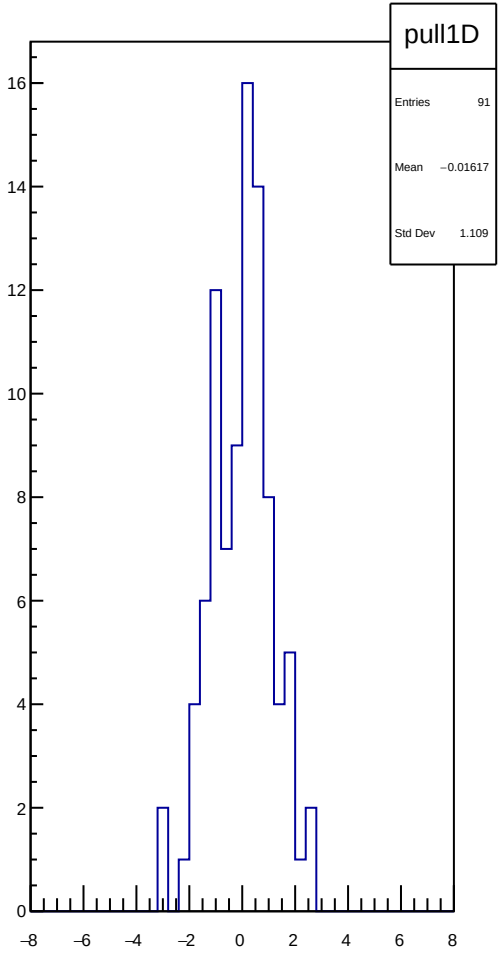

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.329e+05 / 90
p0 742.3 ± 0.5828
1200
1000
800
600
400

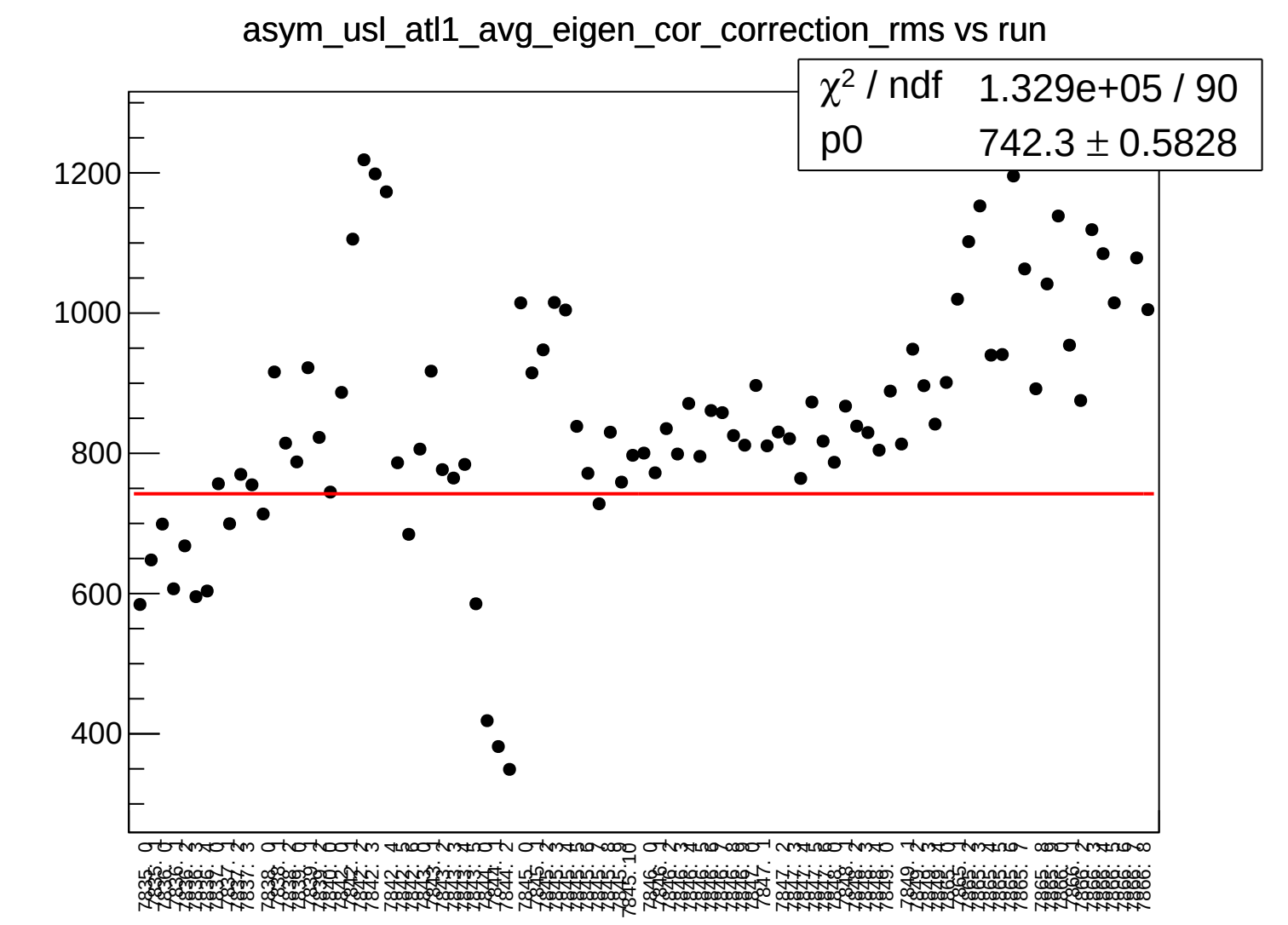

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.37 / 90
p0 1757 ± 1562
pull
Entries 91
Mean 220.7
Std Dev 0

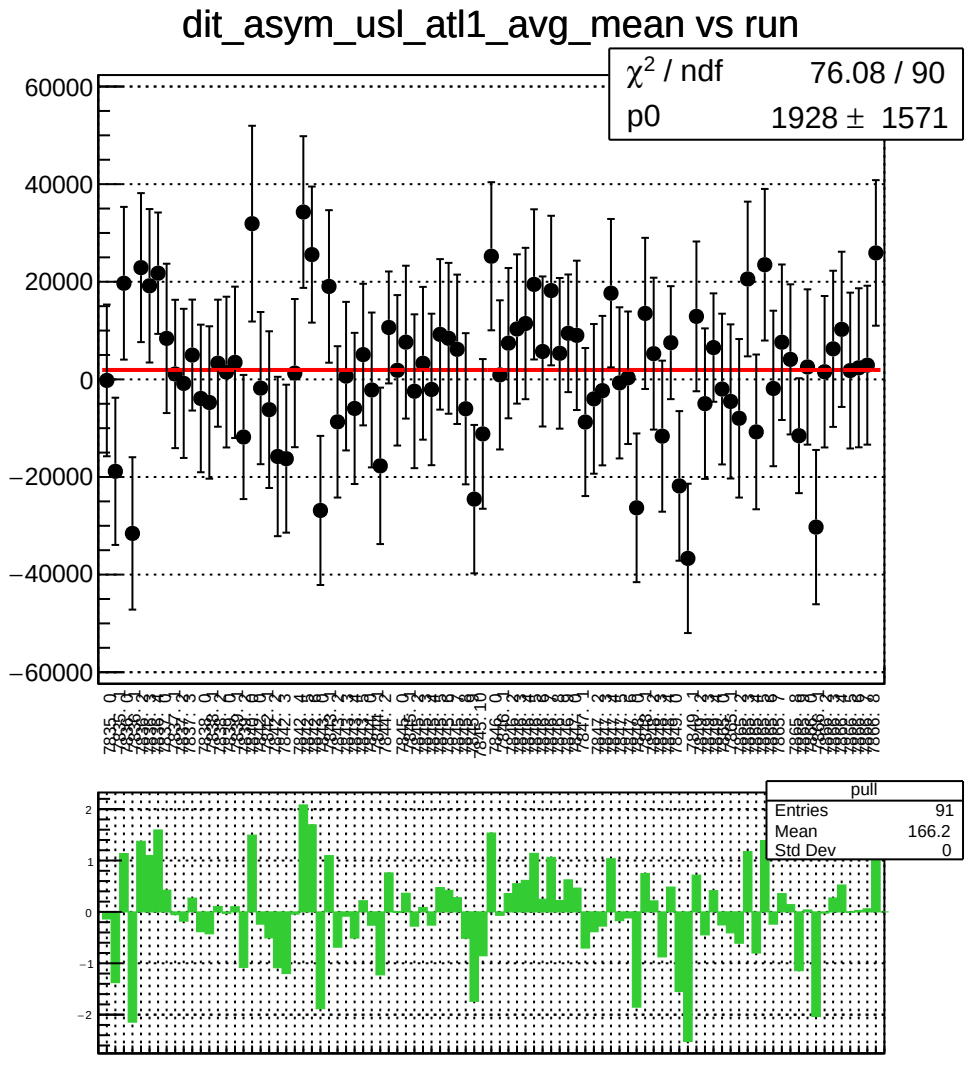

pull1D
Entries 91
Mean −0.007839
Std Dev 0.916

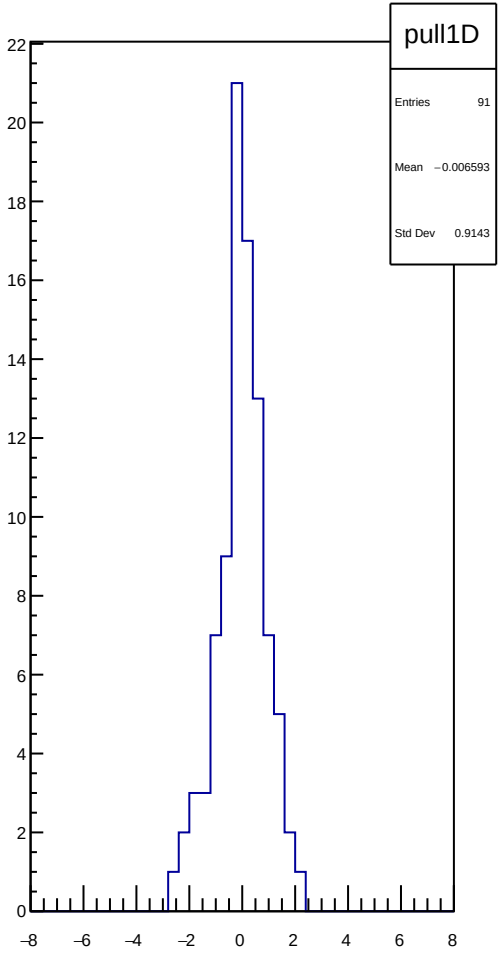

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 356.1 / 90
p0 1463 ± 1.104
1540
1520
1500
1480
1460
1440
1420

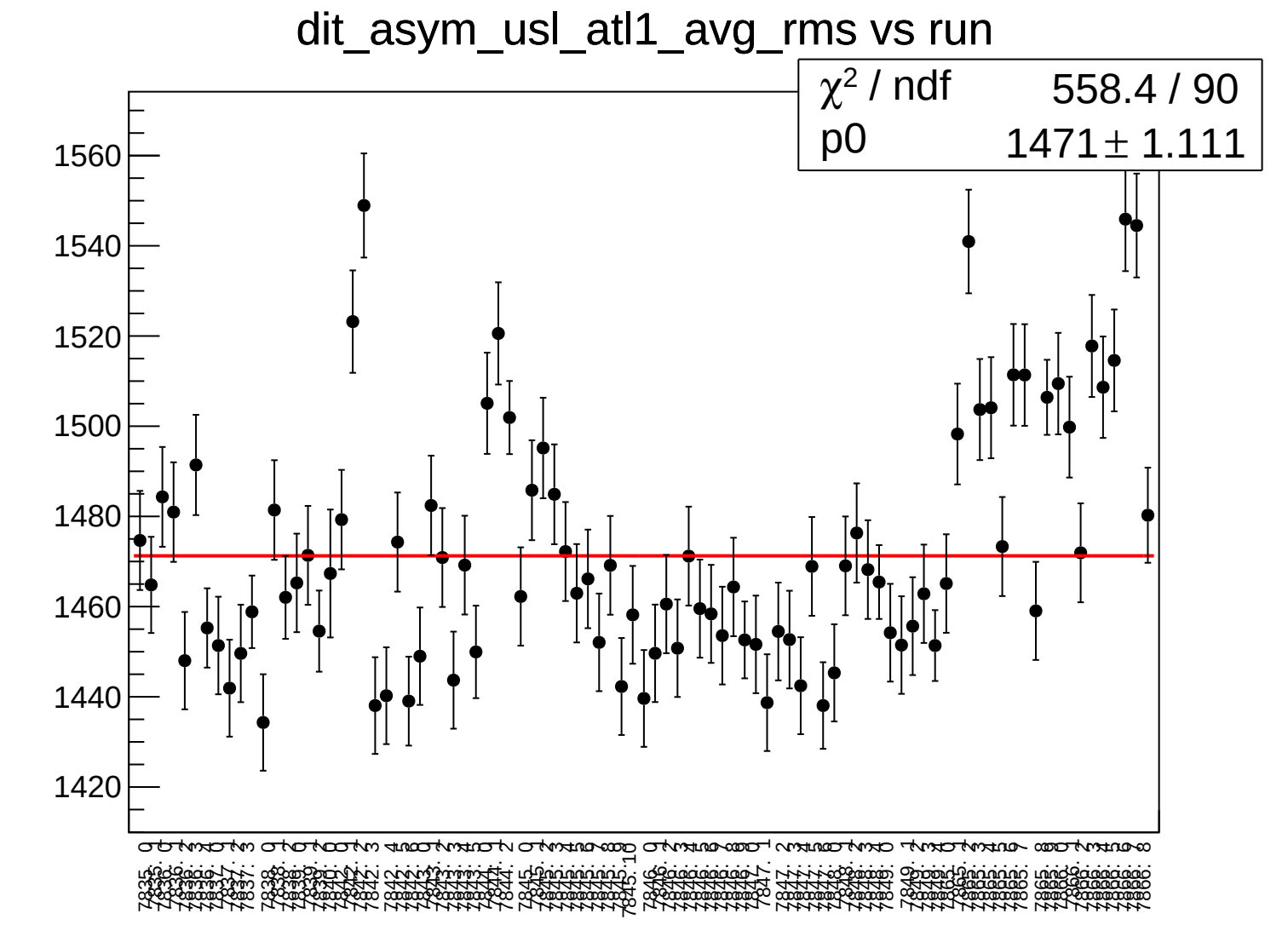

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 112 / 90
p0 −1754 ± 824.2
pull
Entries 91
Mean 257.6
Std Dev 0

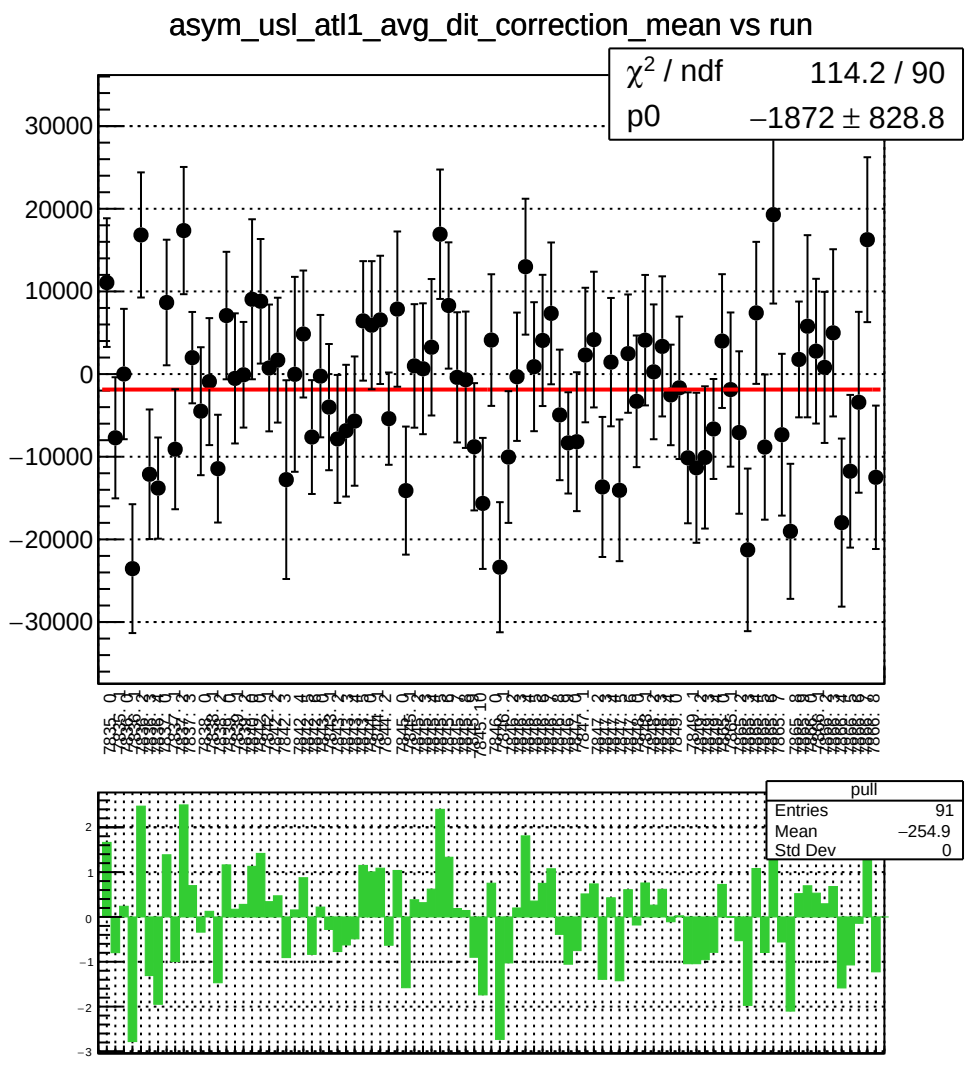

pull1D
Entries 91
Mean −0.01617
Std Dev 1.109

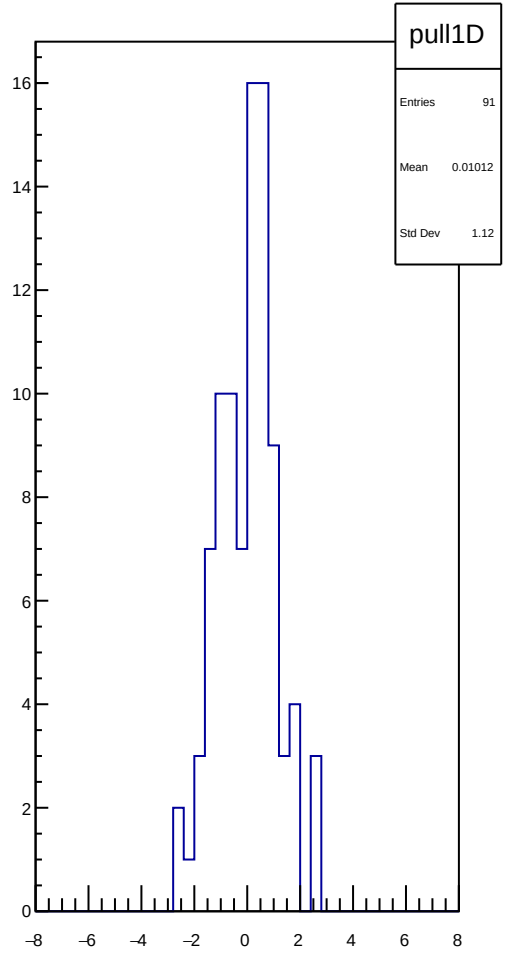

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.329e+05 / 90
p0 742.3 ± 0.5828
1200
1000
800
600
400

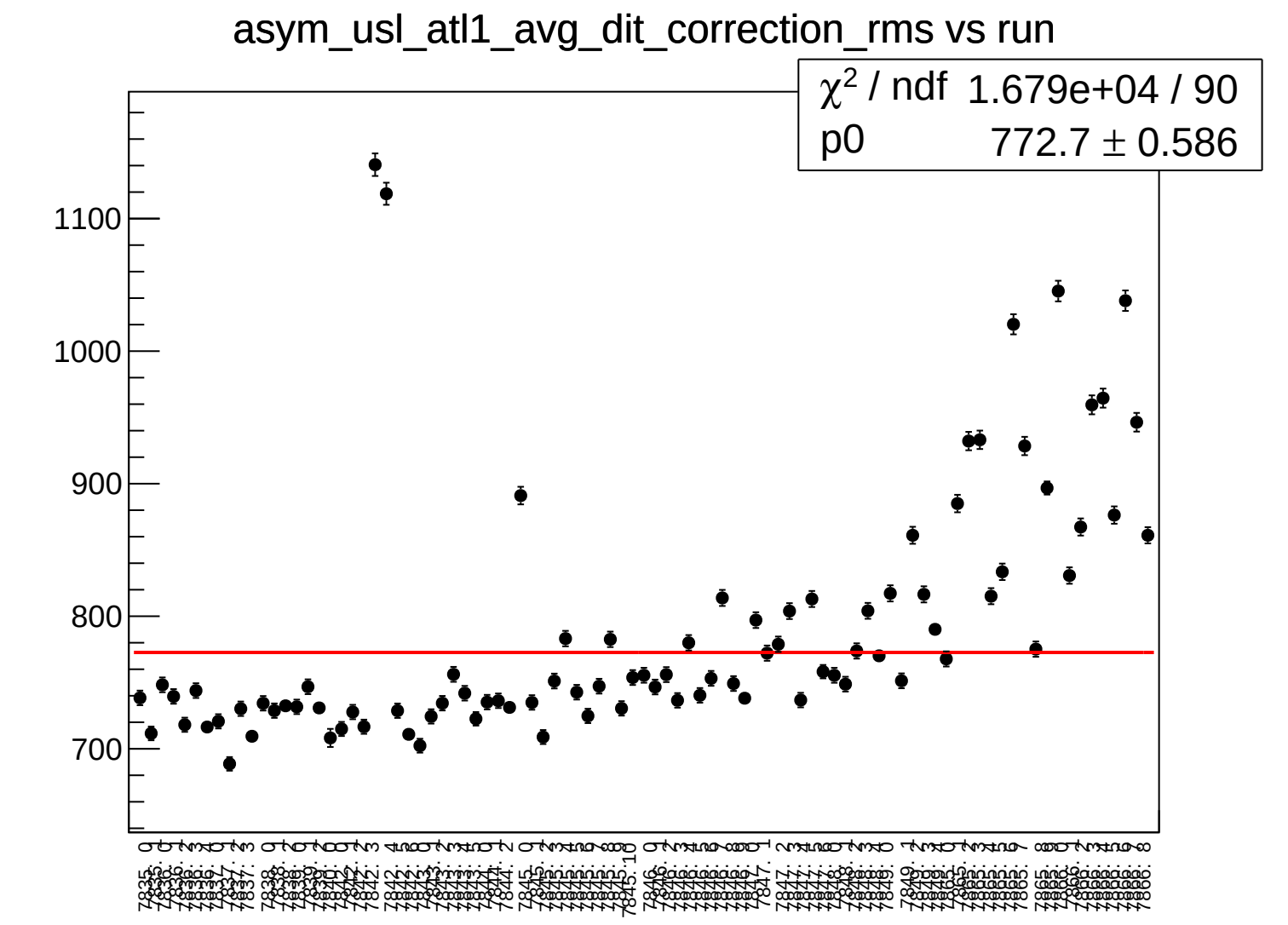

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.08 / 90
p0 1928 ± 1571
pull
Entries 91
Mean 166.2
Std Dev 0

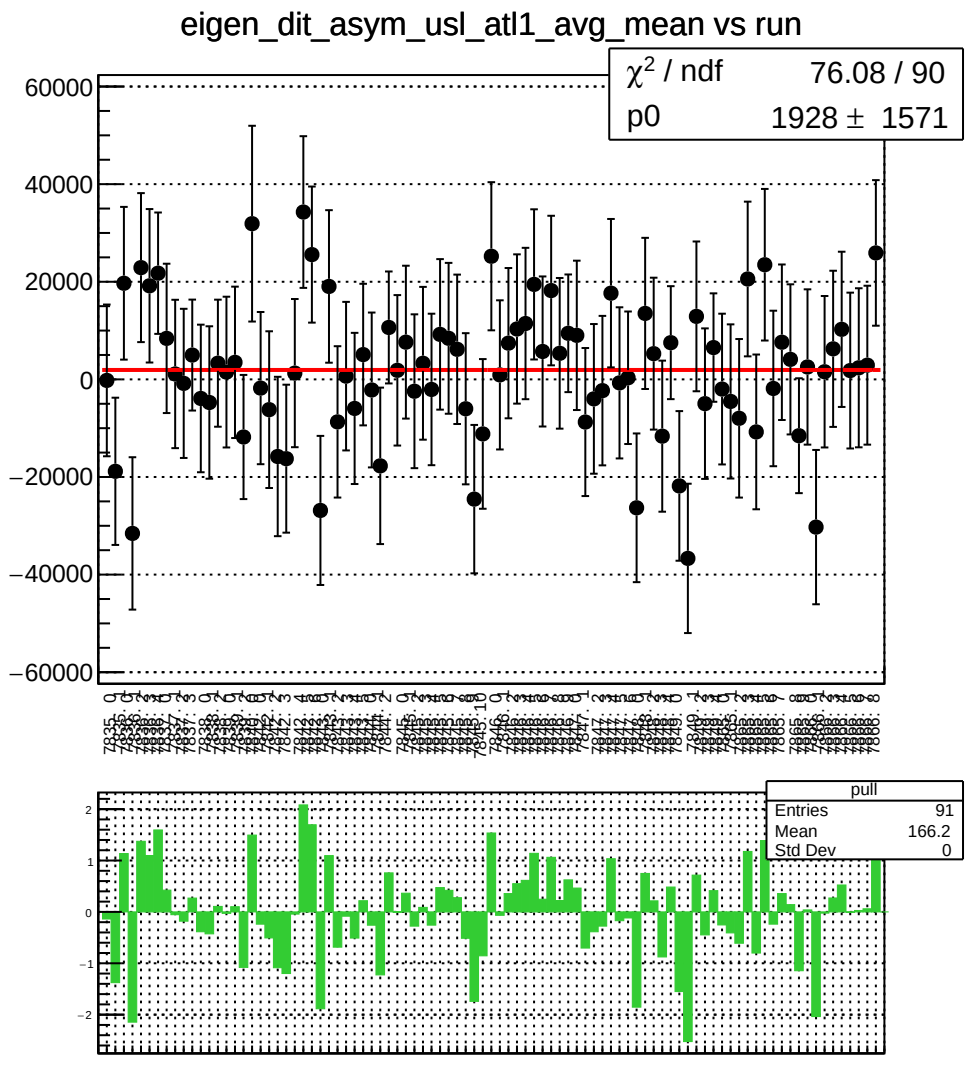

pull1D
Entries 91
Mean −0.006593
Std Dev 0.9143

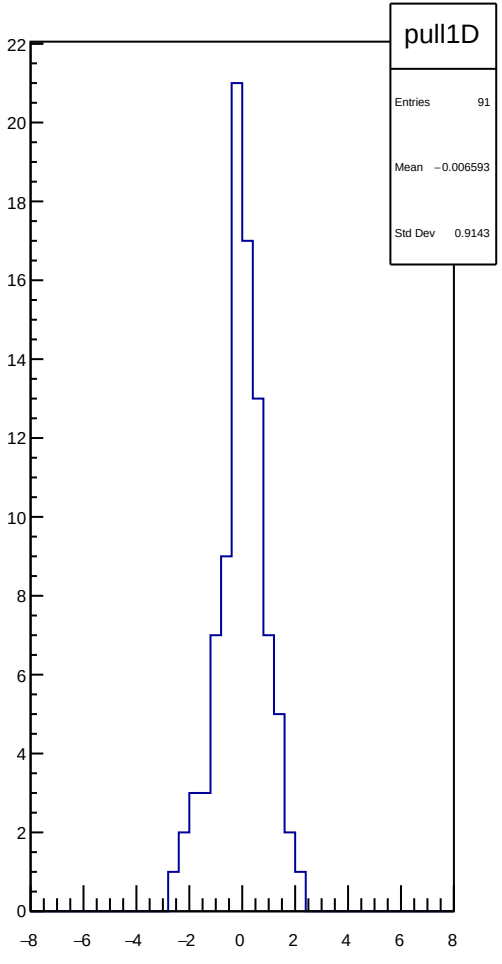

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 558.4 / 90
p0 1471 ± 1.111
1560
1540
1520
1500
1480
1460
1440
1420

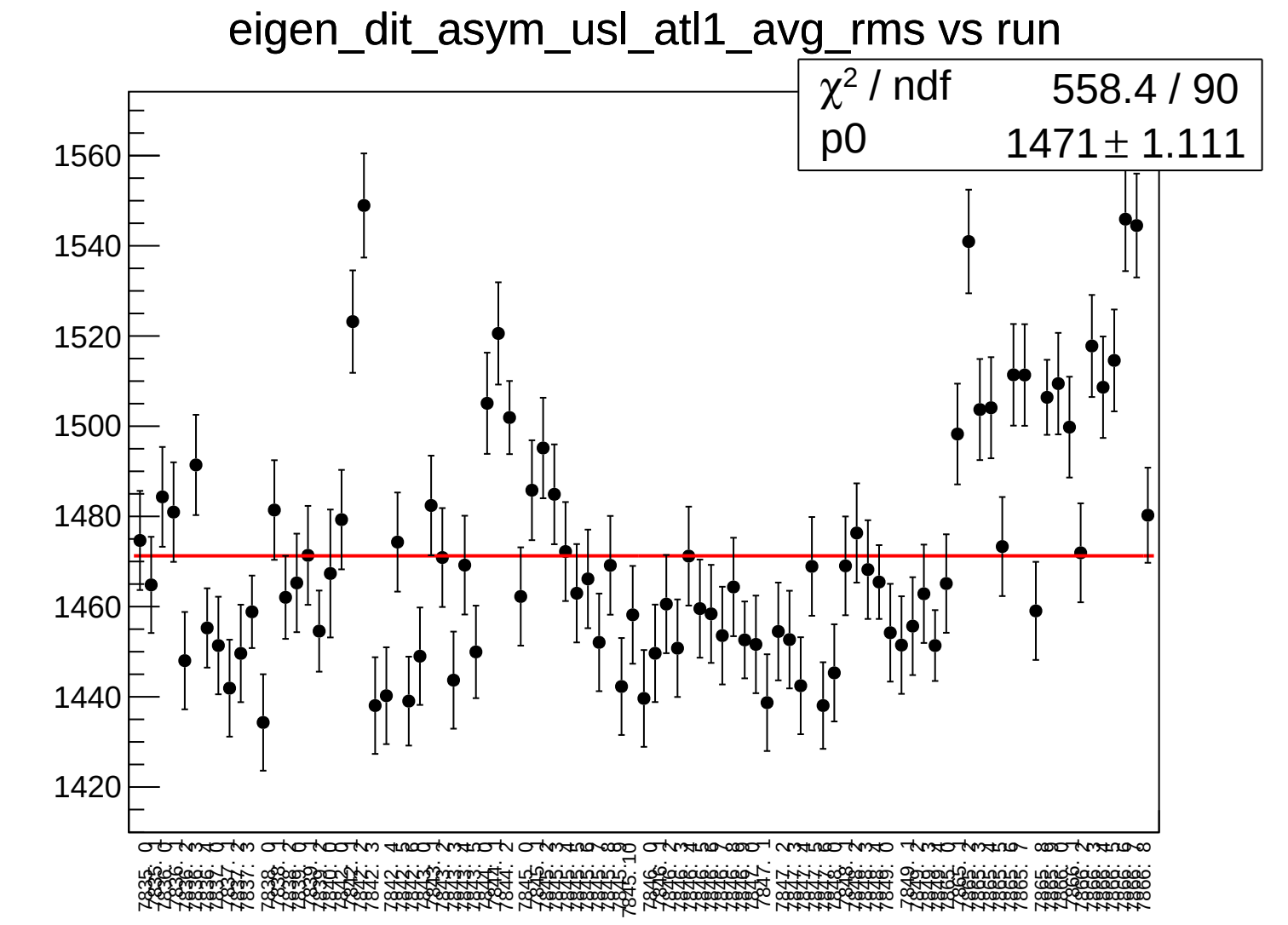

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 114.2 / 90
p0 −1872 ± 828.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −254.9
Std Dev 0
2
1
0
−1
−2
−3

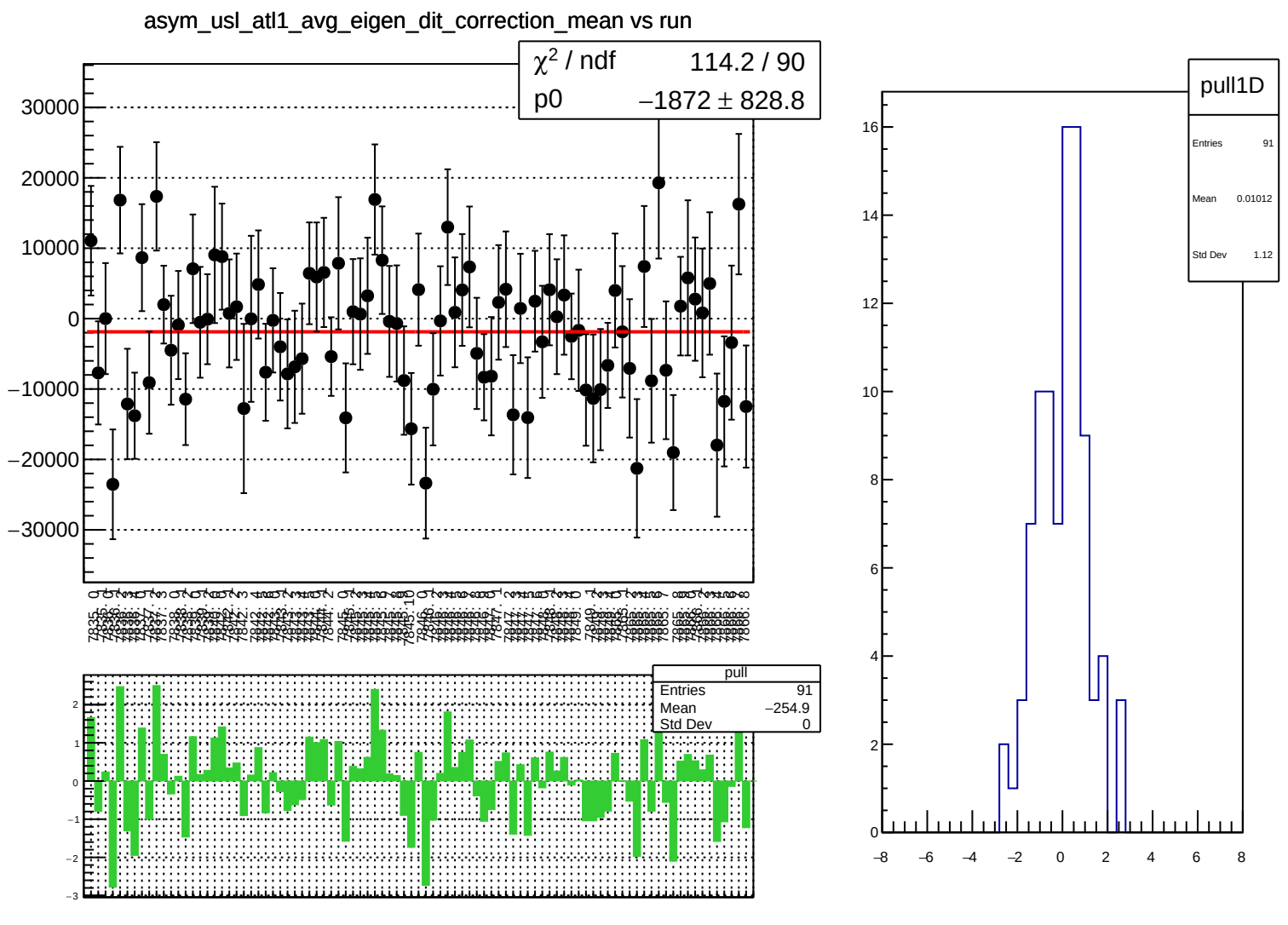

pull1D
Entries 91
Mean 0.01012
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

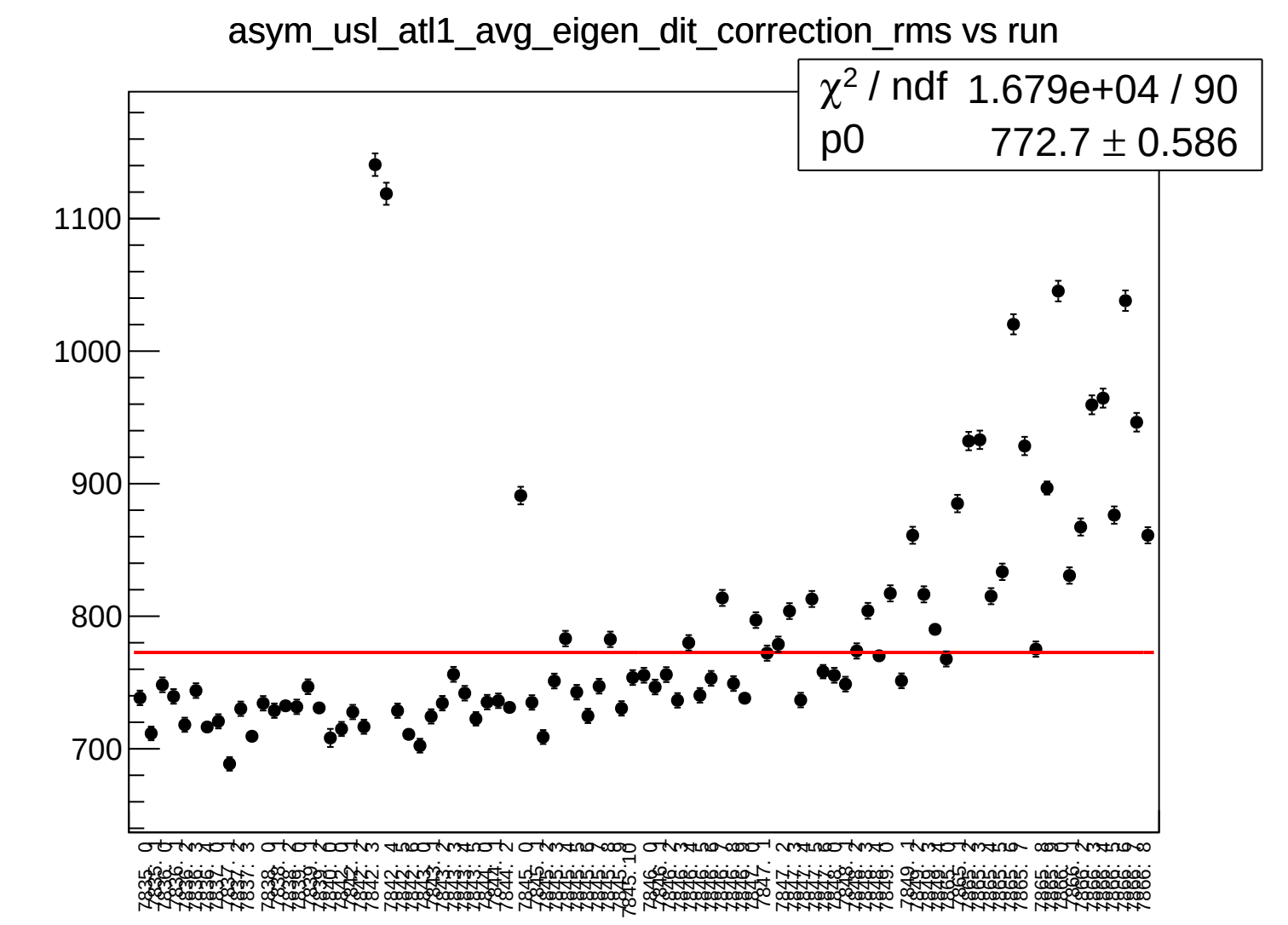

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.679e+04 / 90
p0 772.7 ± 0.586
1100
1000
900
800
700

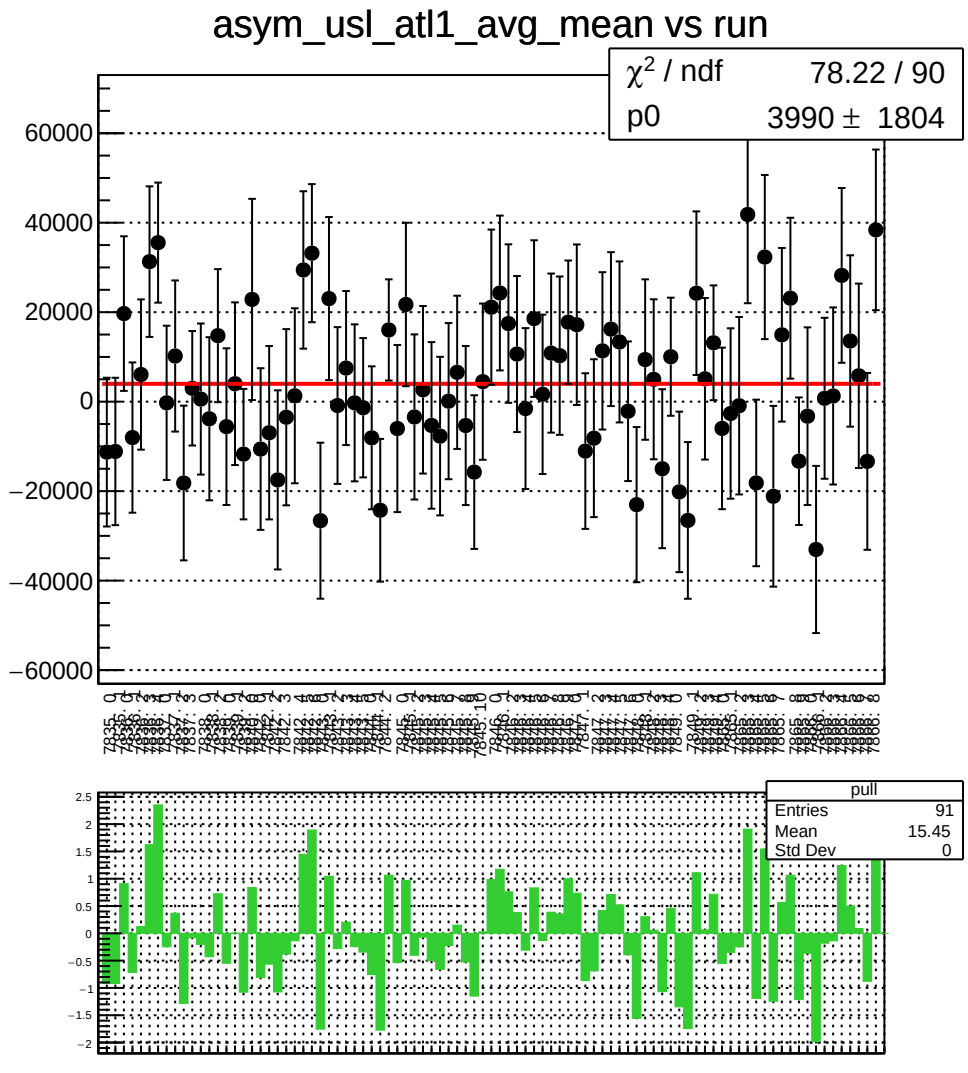

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.08 / 90
p0 1928 ± 1571
pull
Entries 91
Mean 166.2
Std Dev 0

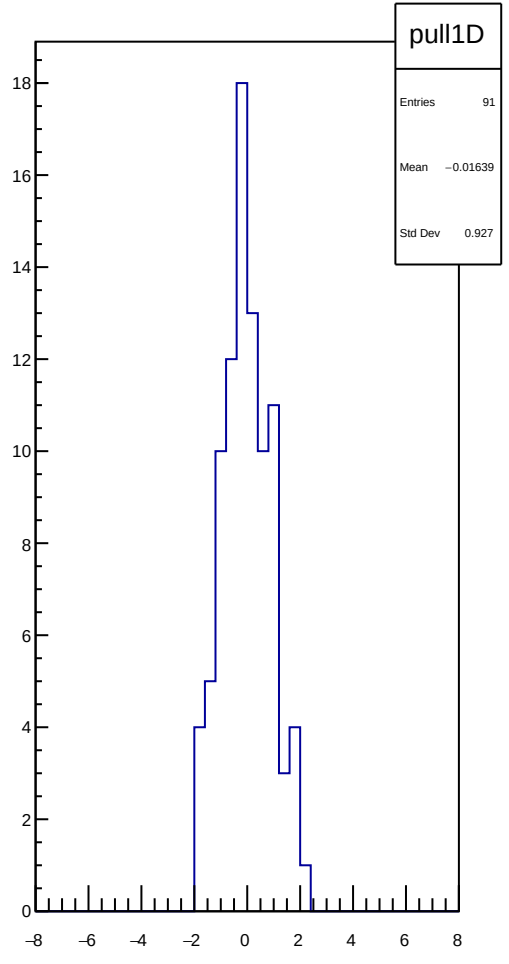

pull1D
Entries 91
Mean −0.006593
Std Dev 0.9143

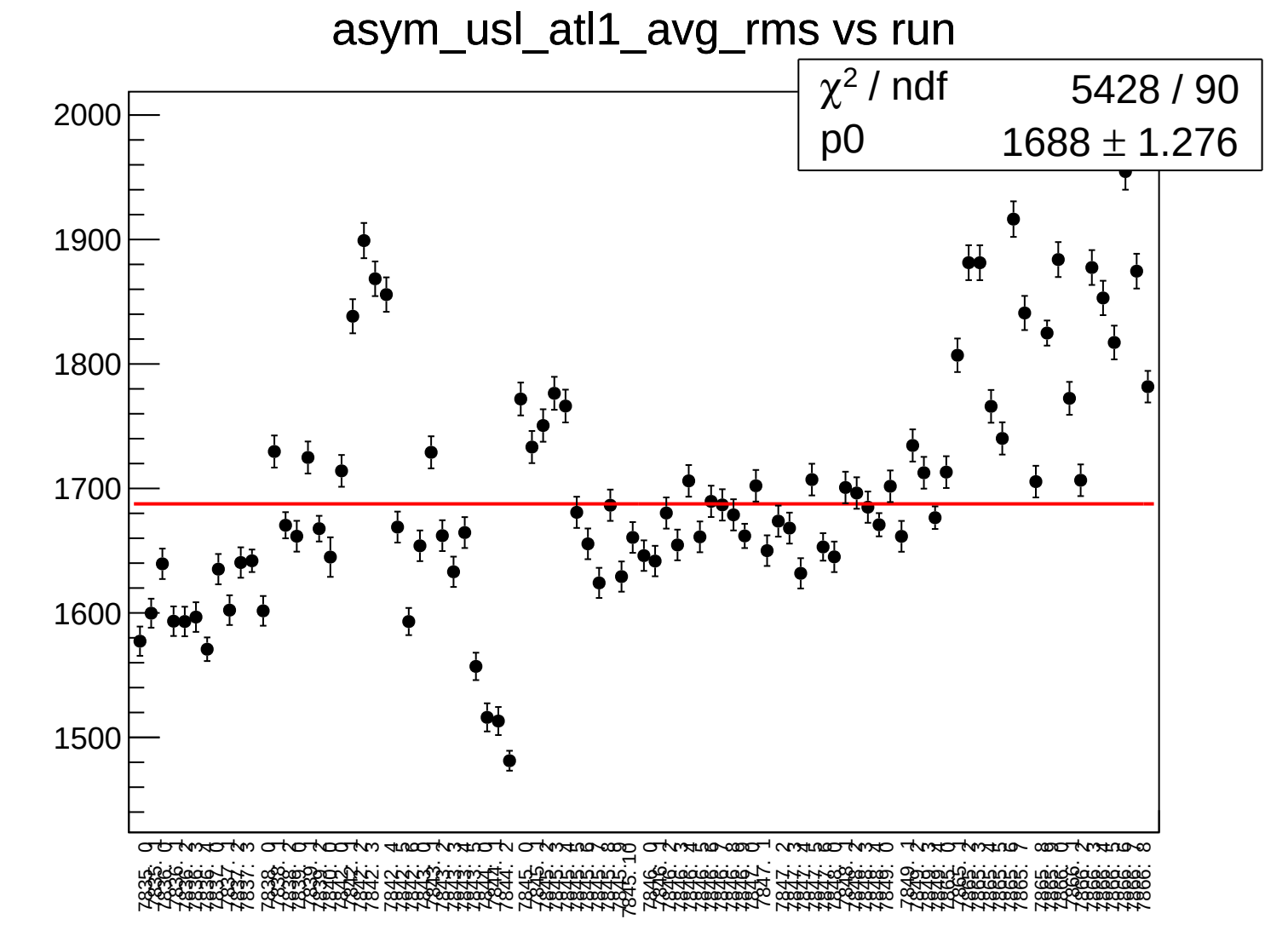

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 558.4 / 90
p0 1471 ± 1.111
1560
1540
1520
1500
1480
1460
1440
1420

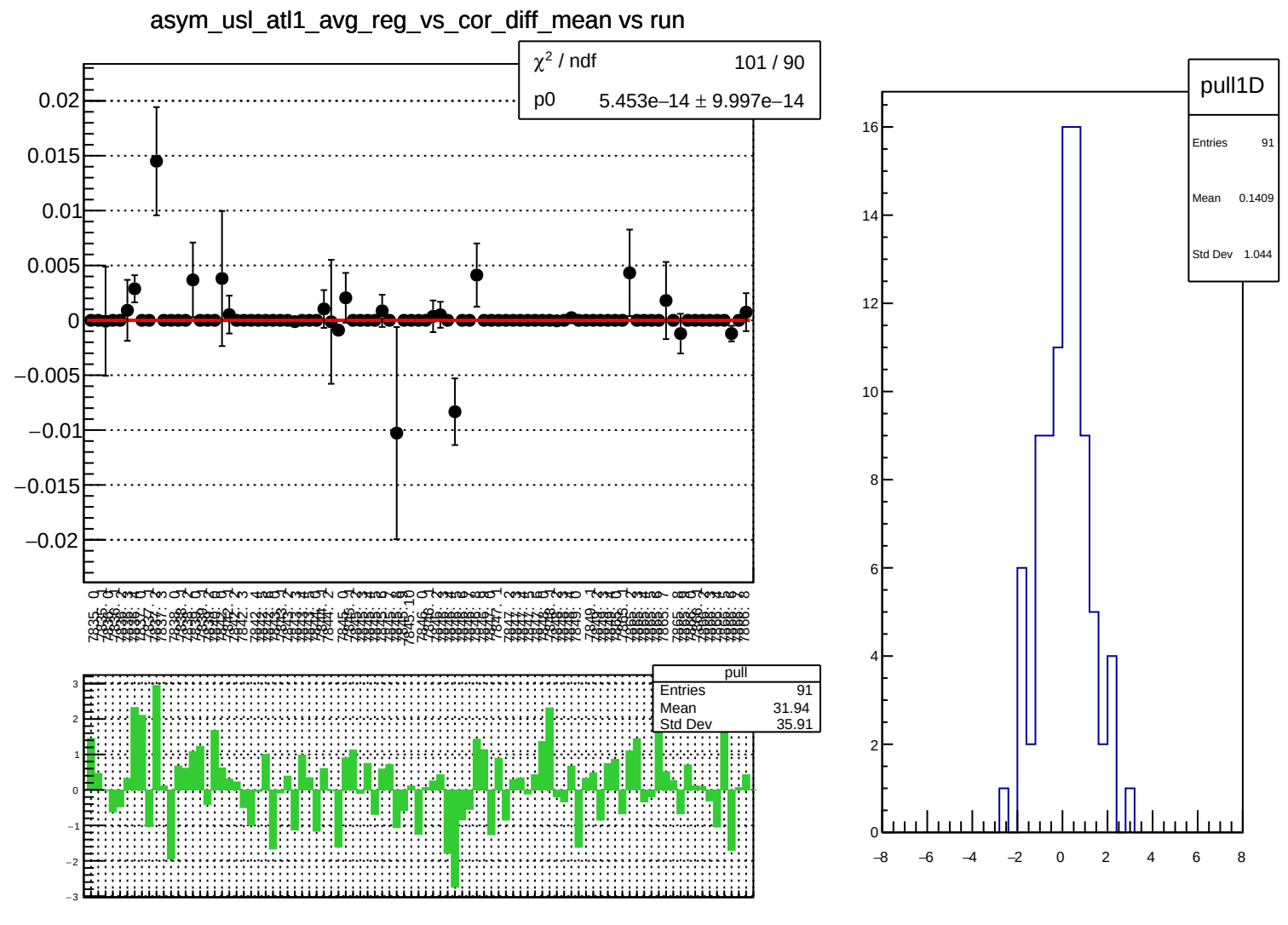

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.2 / 90
p0 −1872 ± 828.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −254.9
Std Dev 0
pull1D
Entries 91
Mean 0.01012
Std Dev 1.12

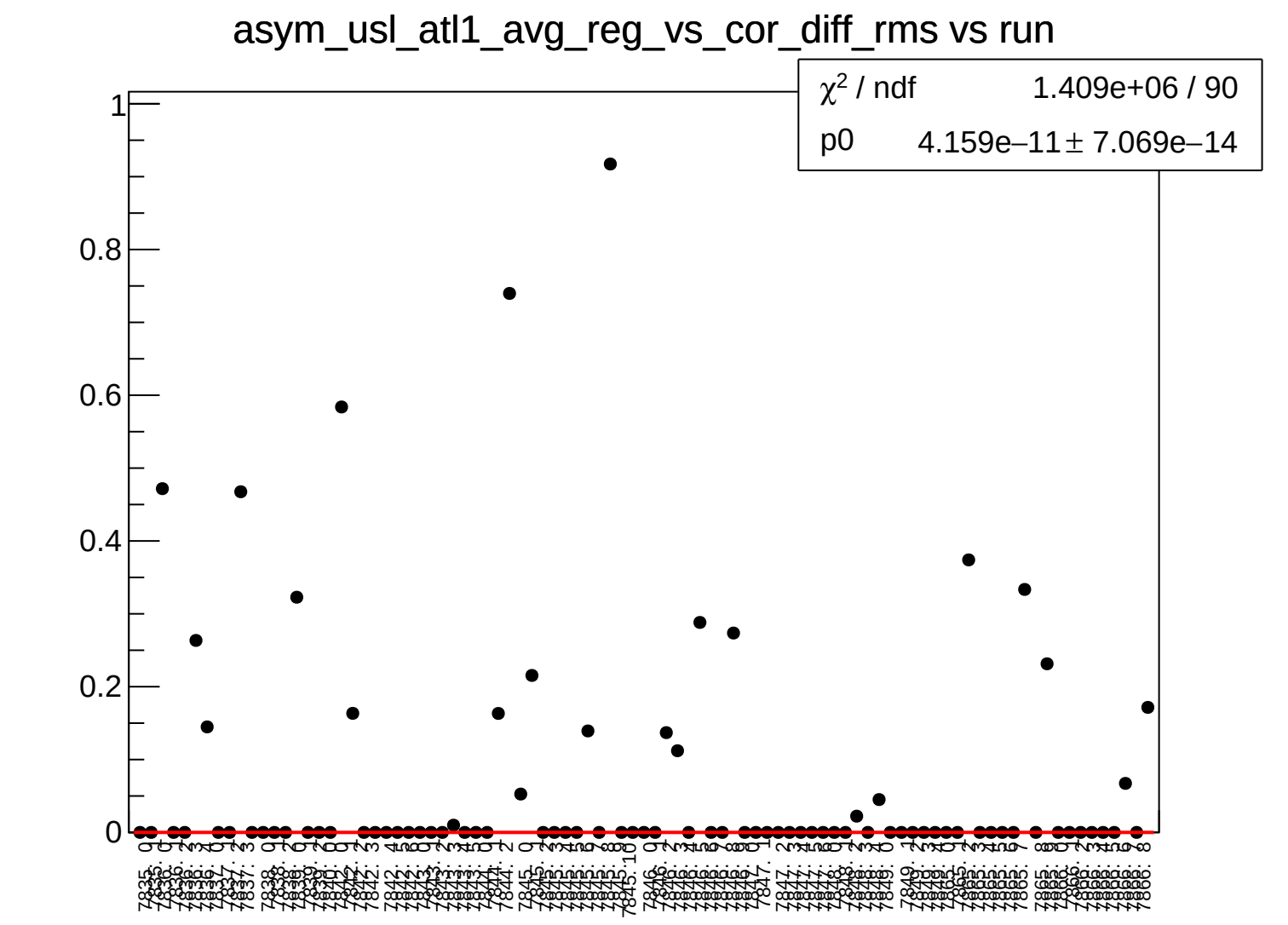

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.679e+04 / 90
p0 772.7 ± 0.586
1100
1000
900
800
700

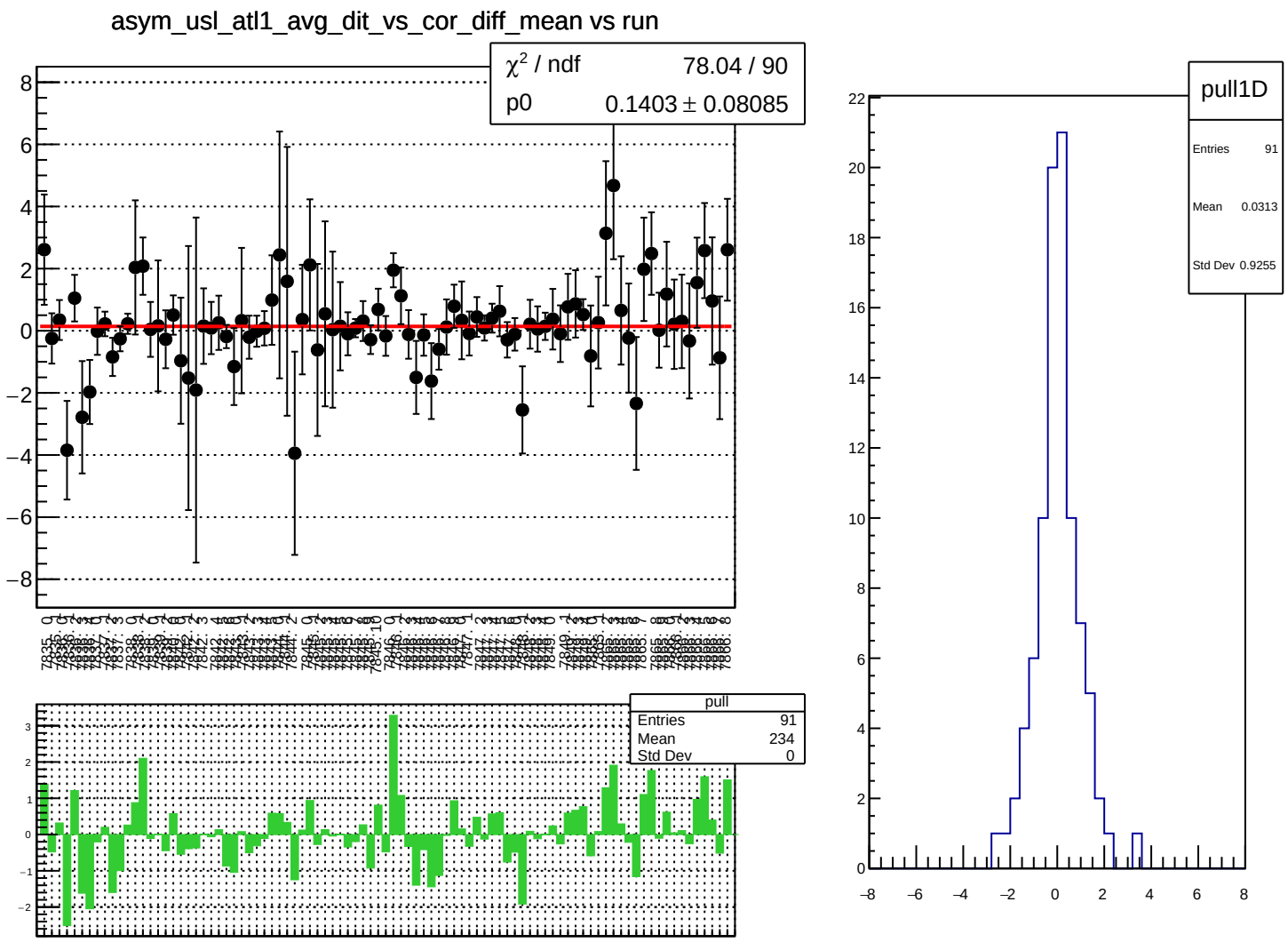

asym_usl_atl1_avg_mean vs run
χ² / ndf 78.22 / 90
p0 3990 ± 1804
pull
Entries 91
Mean 15.45
Std Dev 0

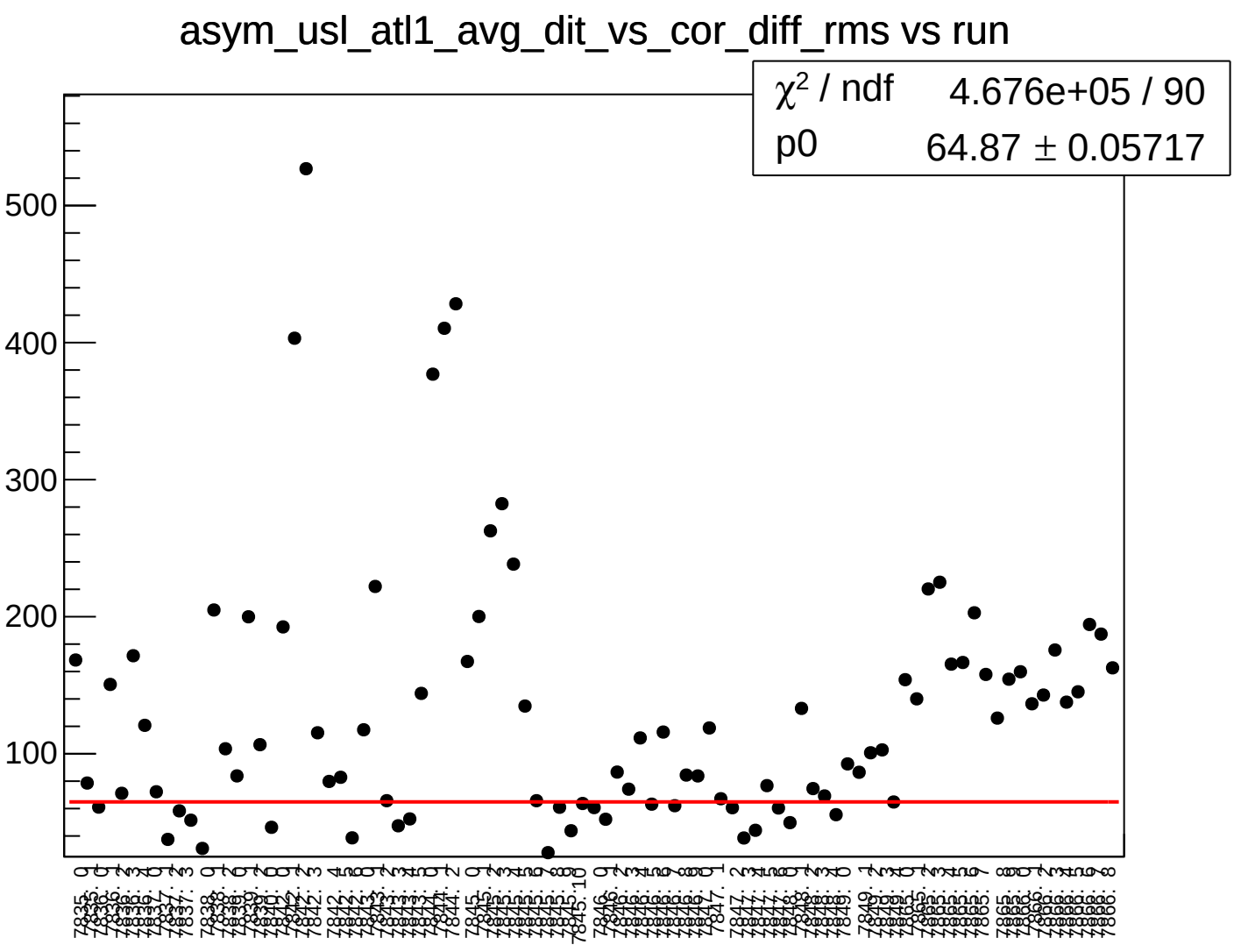

pull1D
Entries 91
Mean −0.01639
Std Dev 0.927

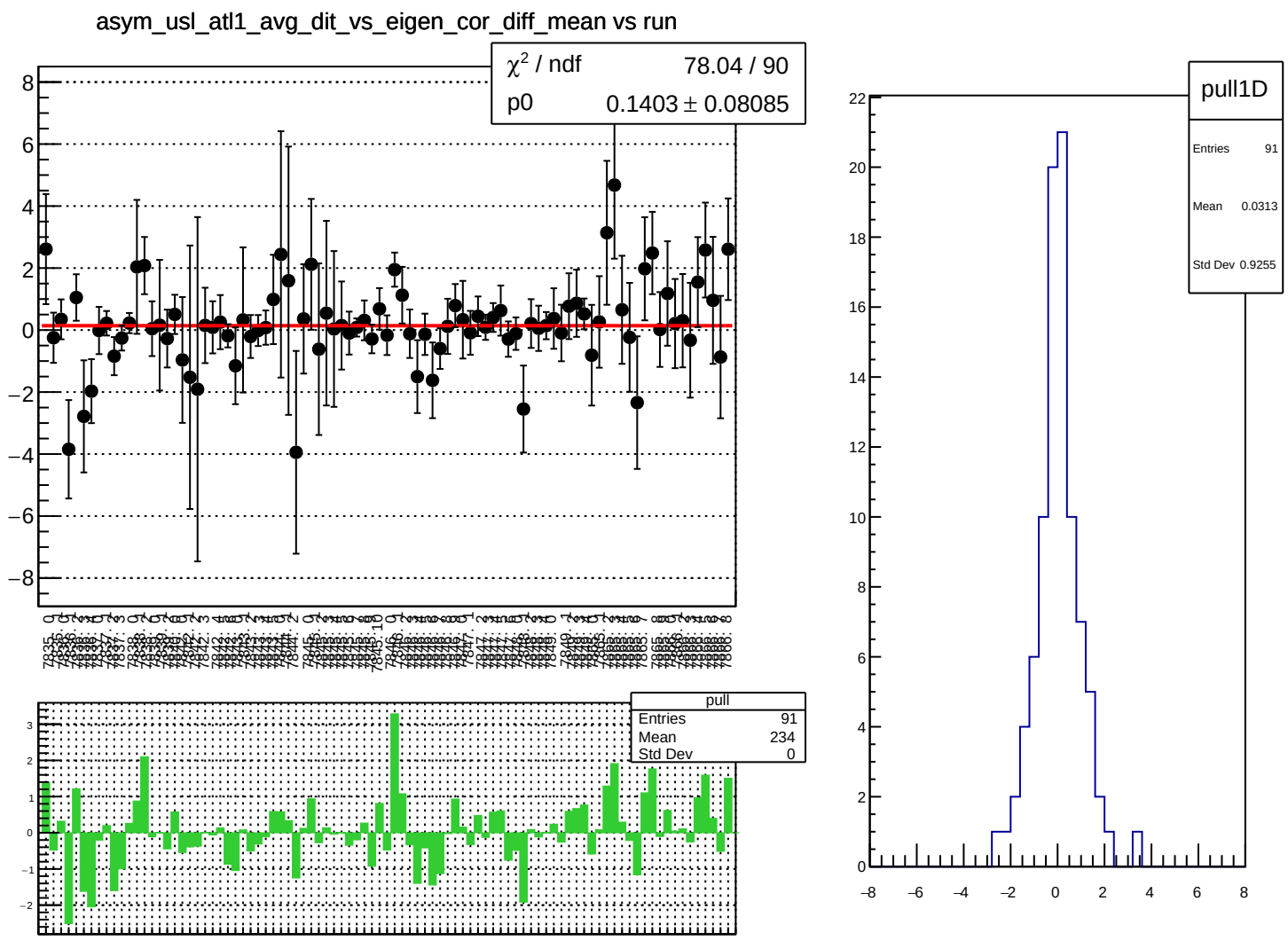

asym_usl_atl1_avg_rms vs run
χ² / ndf 5428 / 90
p0 1688 ± 1.276
2000
1900
1800
1700
1600
1500

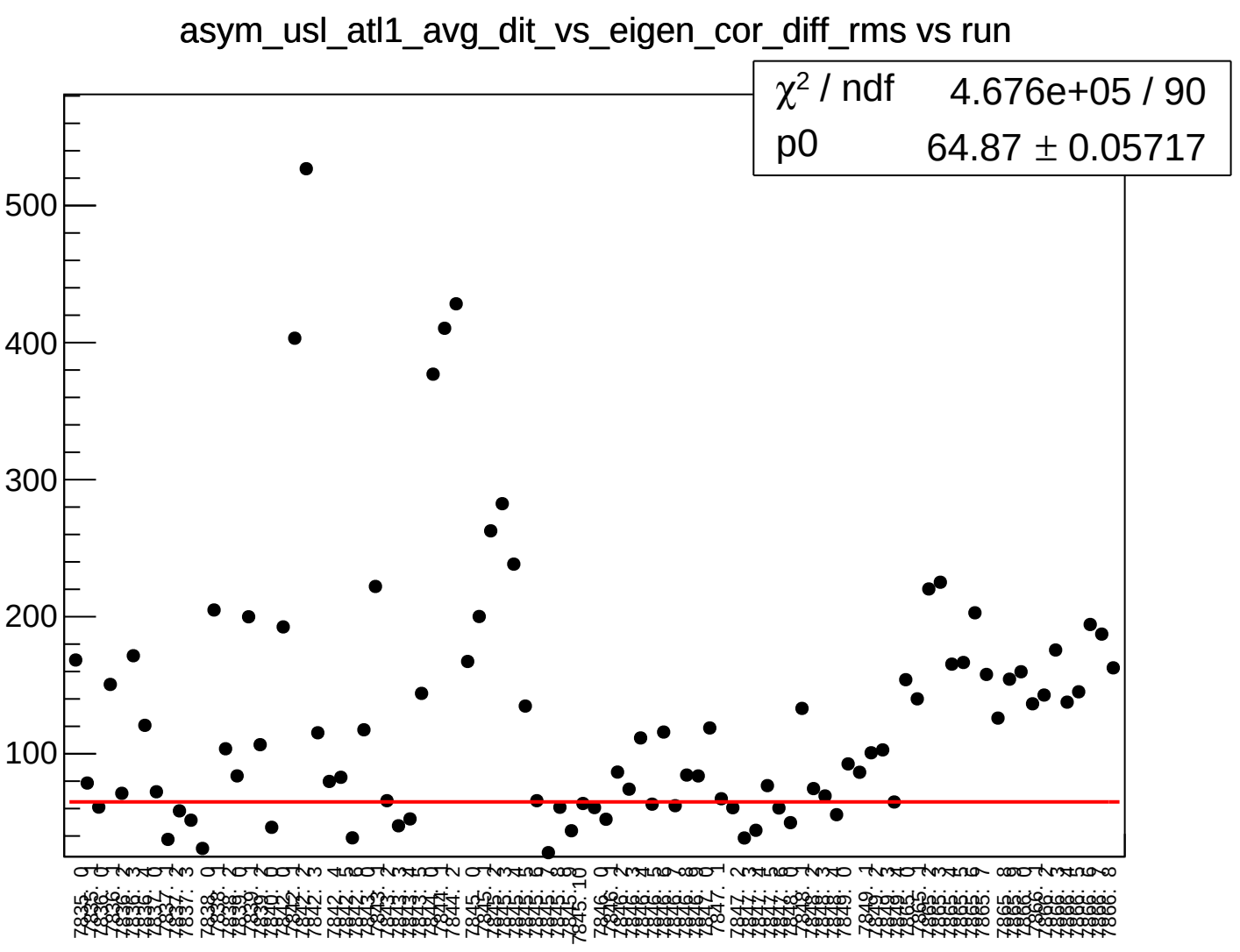

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 90
p0 5.453e−14 ± 9.997e−14
pull
Entries 91
Mean 31.94
Std Dev 35.91
pull1D
Entries 91
Mean 0.1409
Std Dev 1.044

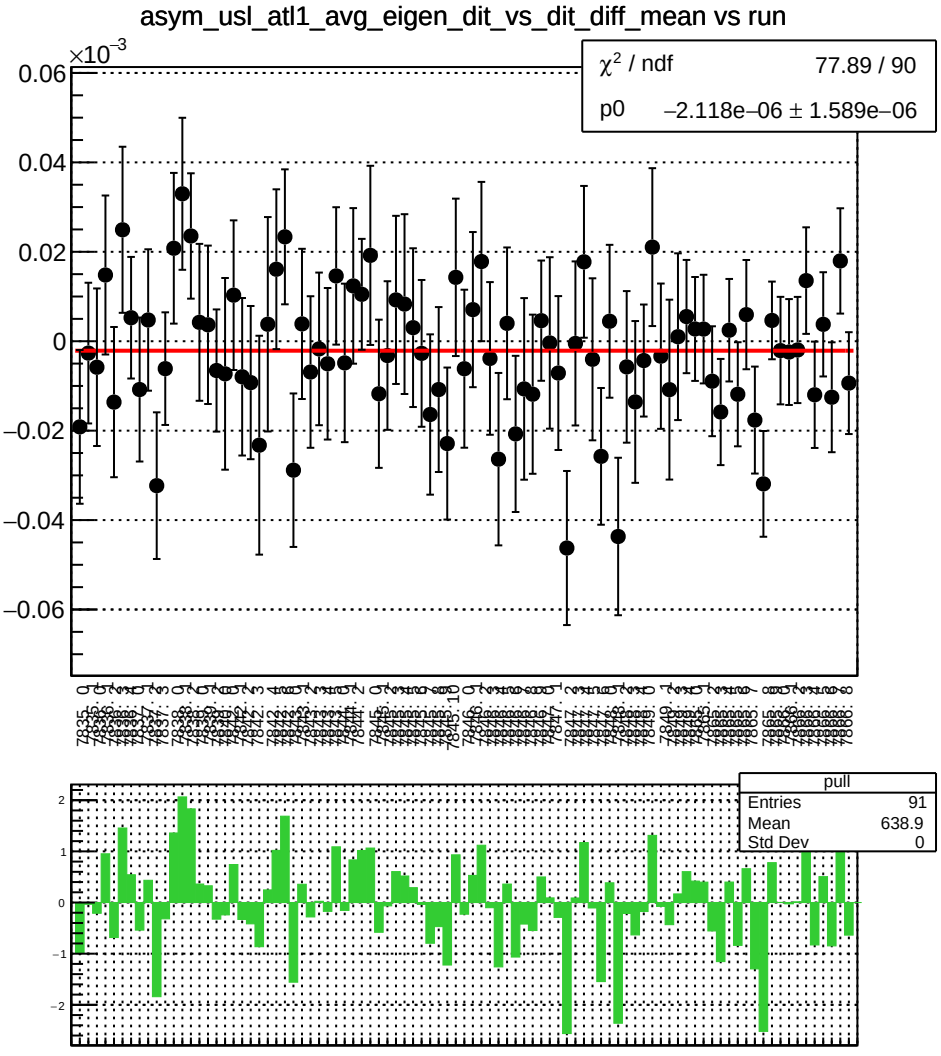

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.409e+06 / 90
p0 4.159e−11 ± 7.069e−14
1
0.8
0.6
0.4
0.2
0

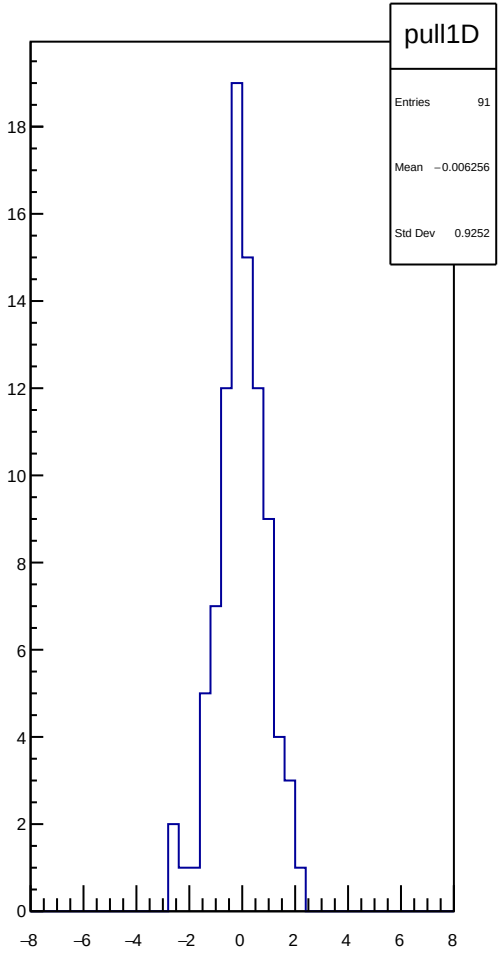

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.04 / 90
p0 0.1403 ± 0.08085
pull
Entries 91
Mean 234
Std Dev 0
pull1D
Entries 91
Mean 0.0313
Std Dev 0.9255

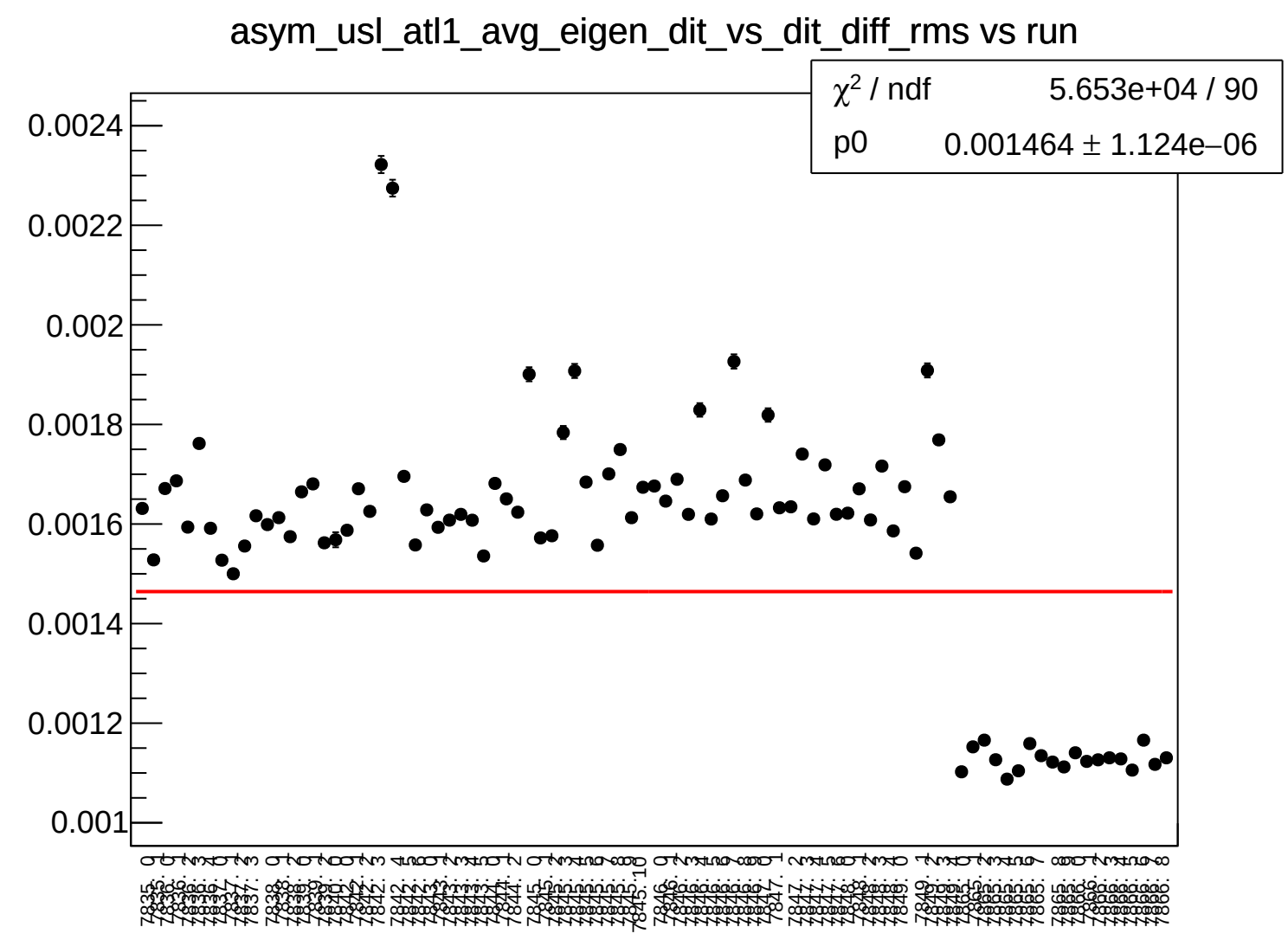

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.676e+05 / 90
p0 64.87 ± 0.05717
500
400
300
200
100

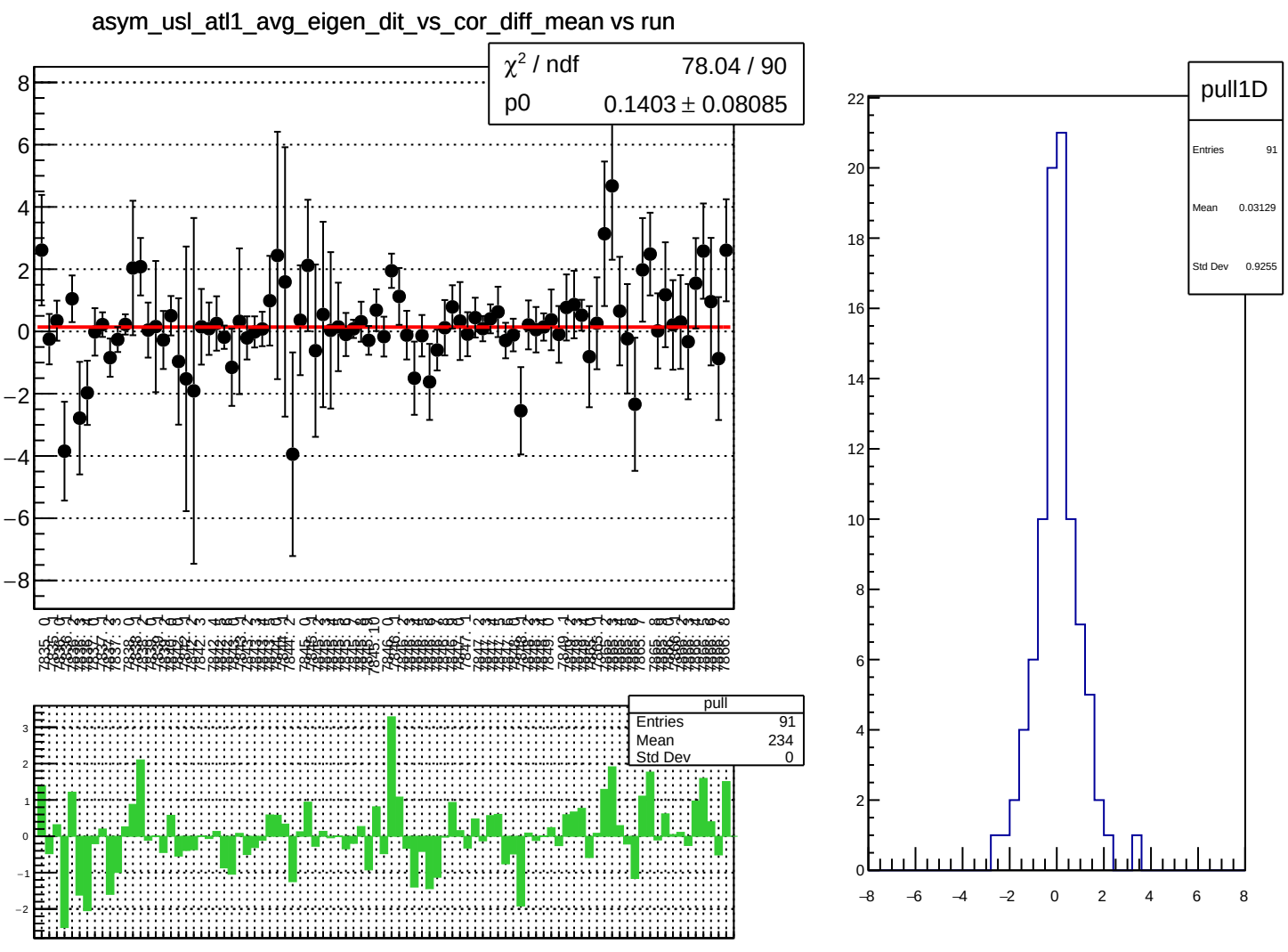

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.04 / 90
p0 0.1403 ± 0.08085
pull
Entries 91
Mean 234
Std Dev 0
pull1D
Entries 91
Mean 0.0313
Std Dev 0.9255

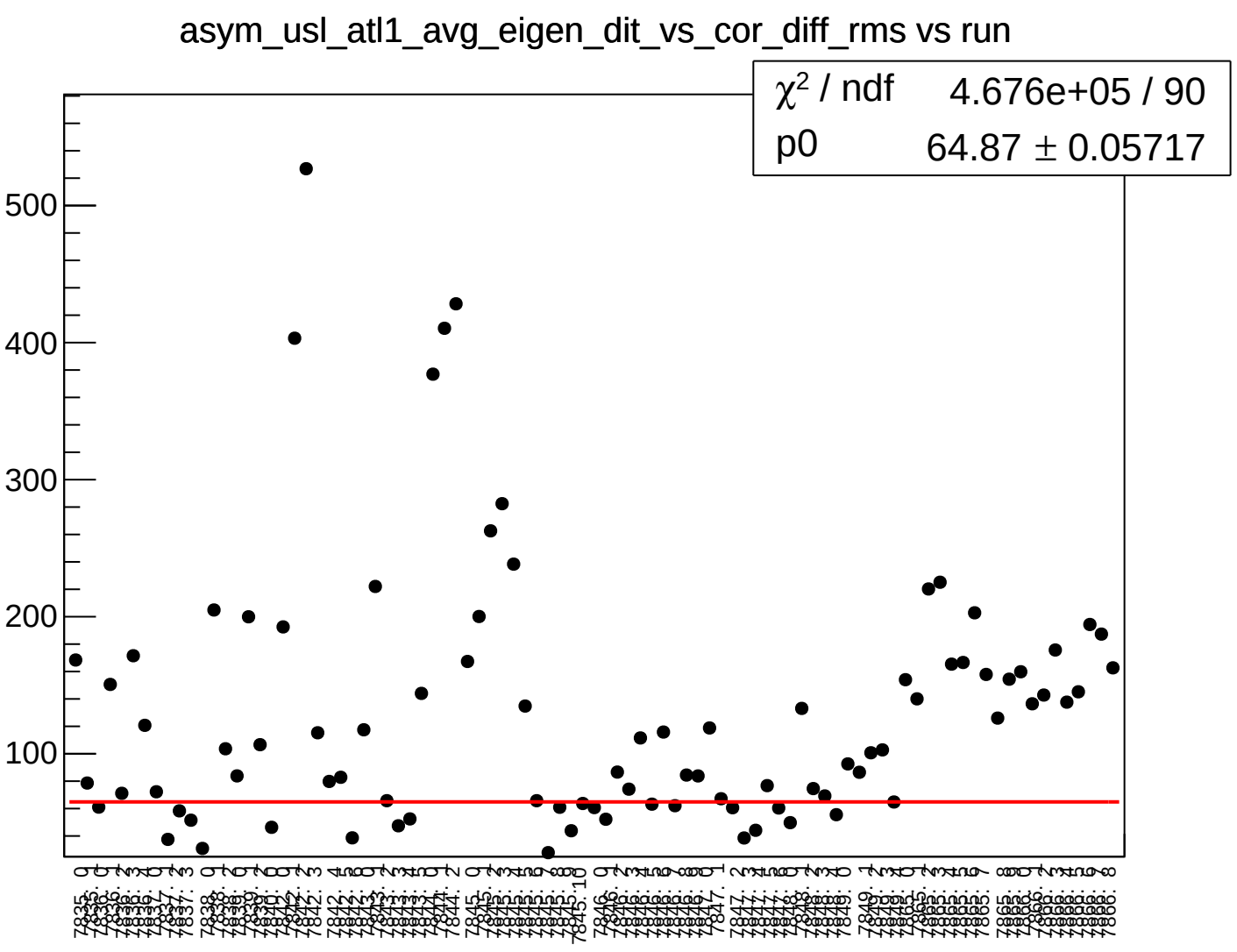

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.676e+05 / 90
p0 64.87 ± 0.05717
500
400
300
200
100

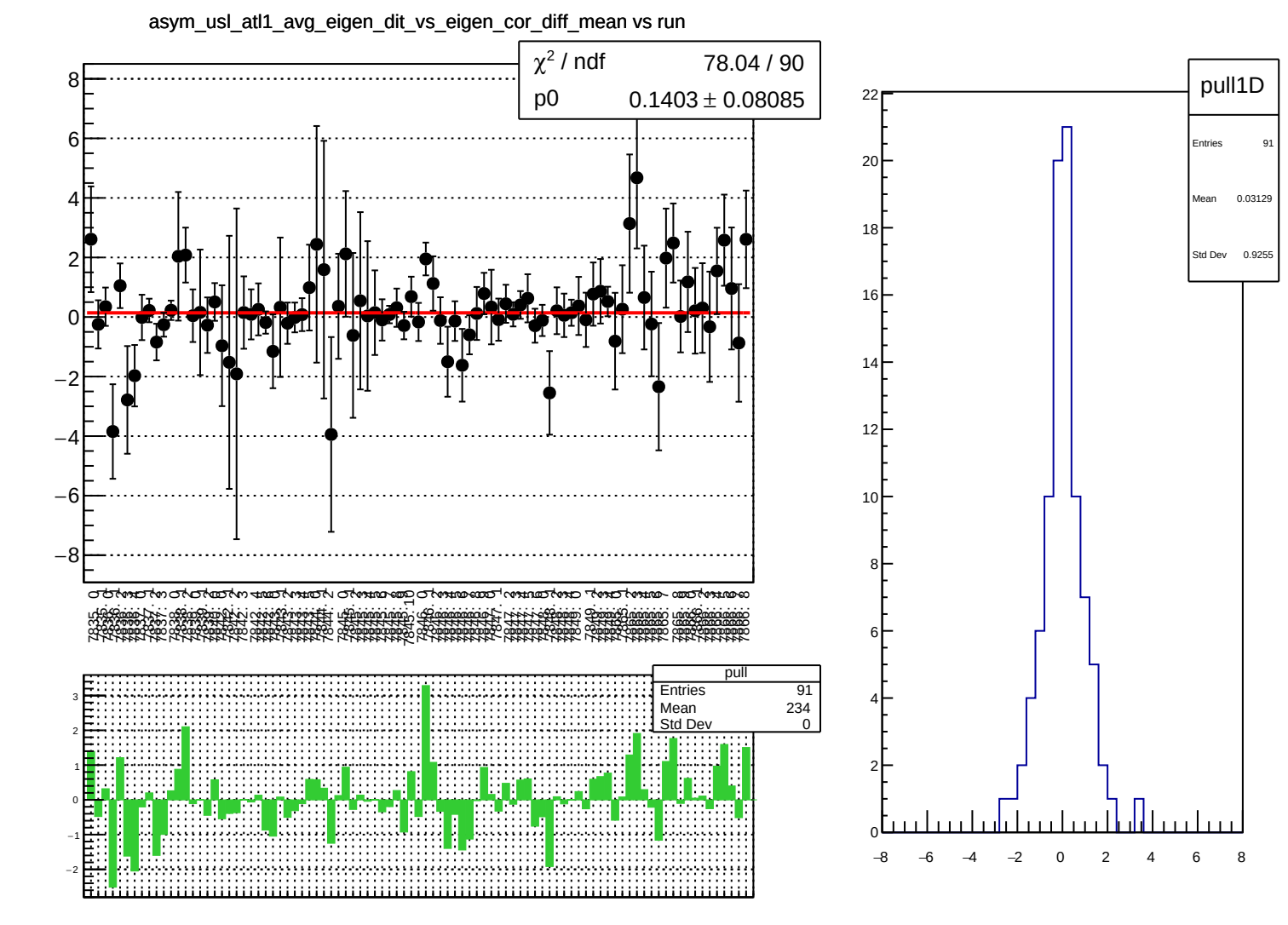

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.89 / 90
p0 −2.118e−06 ± 1.589e−06
pull
Entries 91
Mean 638.9
Std Dev 0

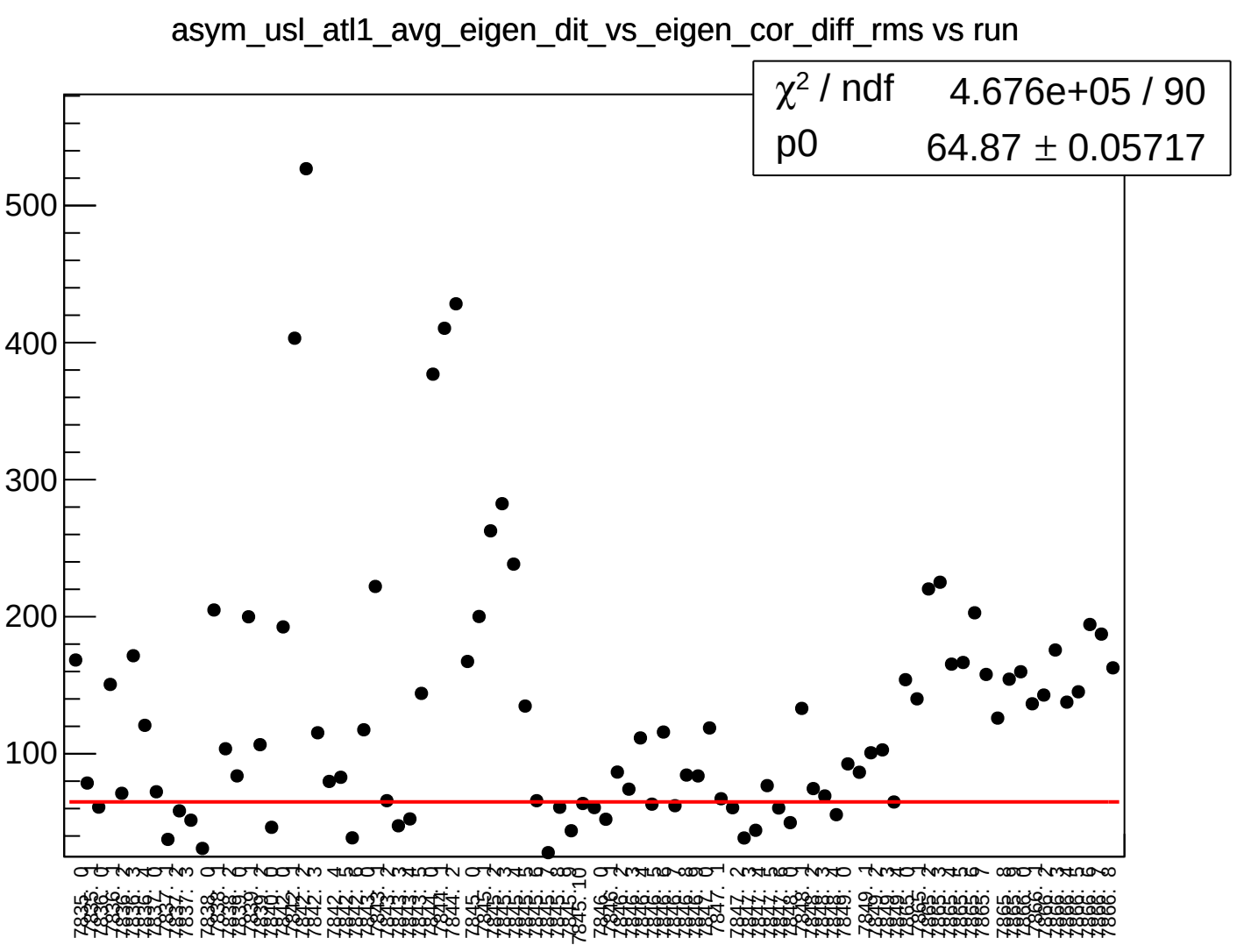

pull1D
Entries 91
Mean −0.006256
Std Dev 0.9252

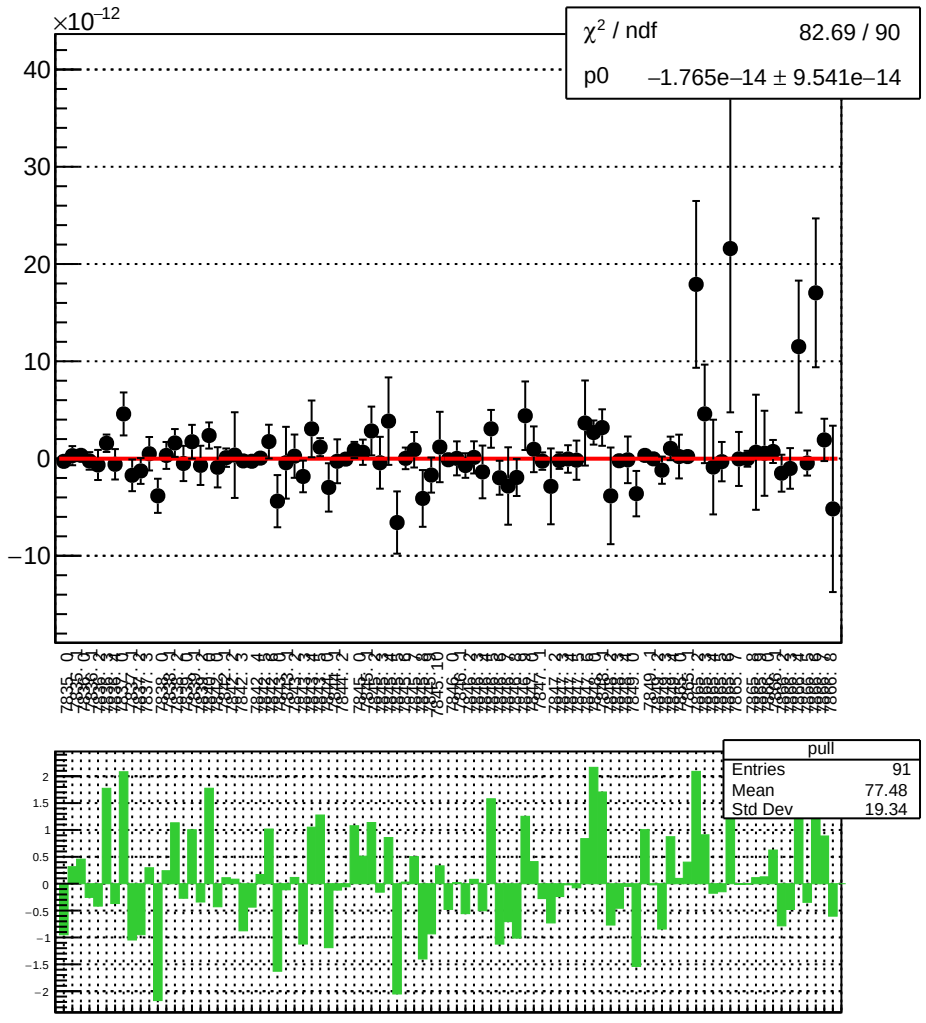

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.653e+04 / 90
p0 0.001464 ± 1.124e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

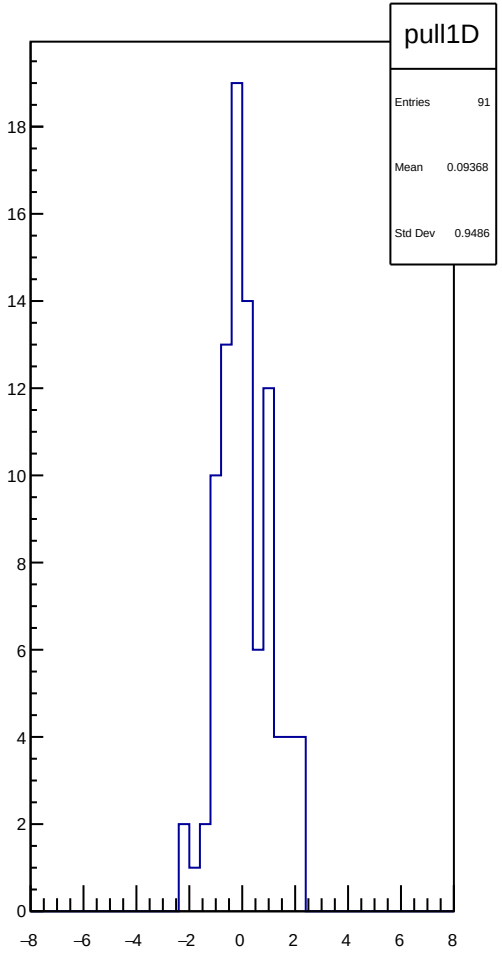

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.04 / 90
p0 0.1403 ± 0.08085
pull
Entries 91
Mean 234
Std Dev 0
pull1D
Entries 91
Mean 0.03129
Std Dev 0.9255

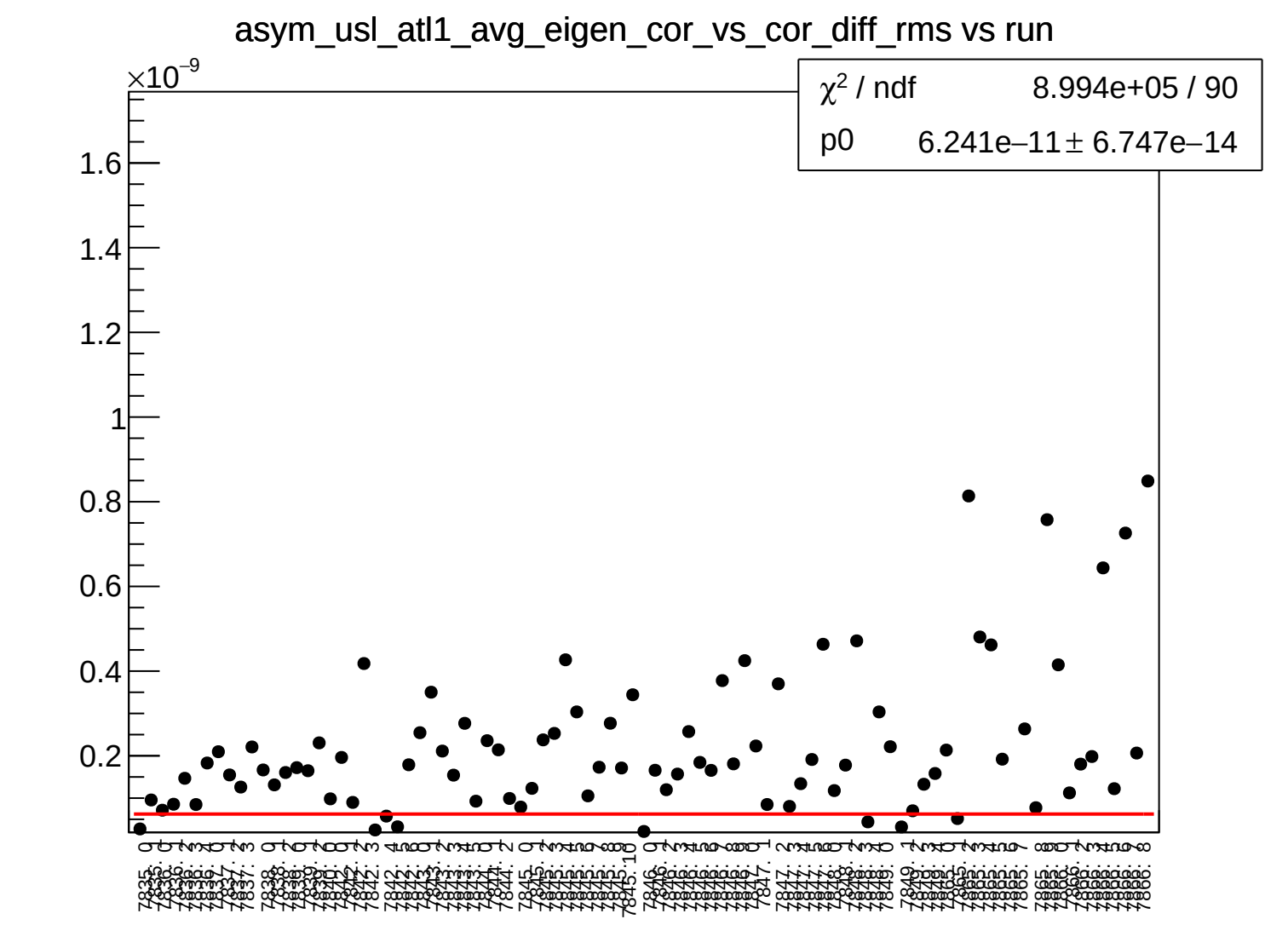

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.676e+05 / 90
p0 64.87 ± 0.05717
500
400
300
200
100

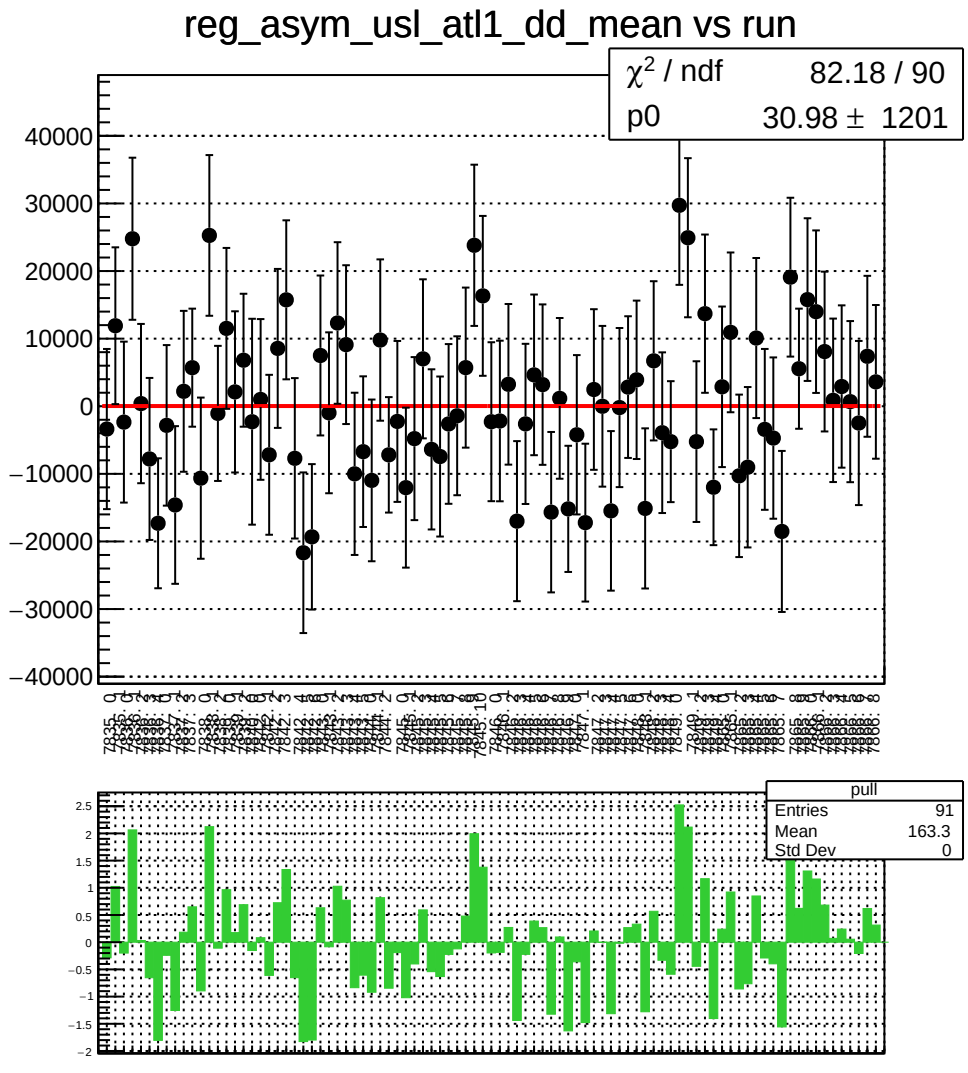

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.04 / 90
p0 0.1403 ± 0.08085
pull
Entries 91
Mean 234
Std Dev 0
pull1D
Entries 91
Mean 0.03129
Std Dev 0.9255

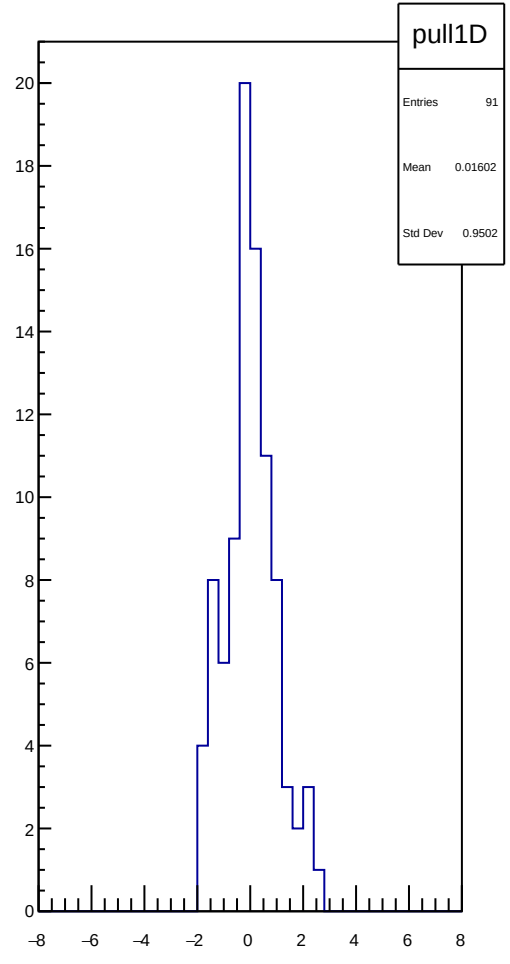

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.676e+05 / 90
p0 64.87 ± 0.05717
500
400
300
200
100

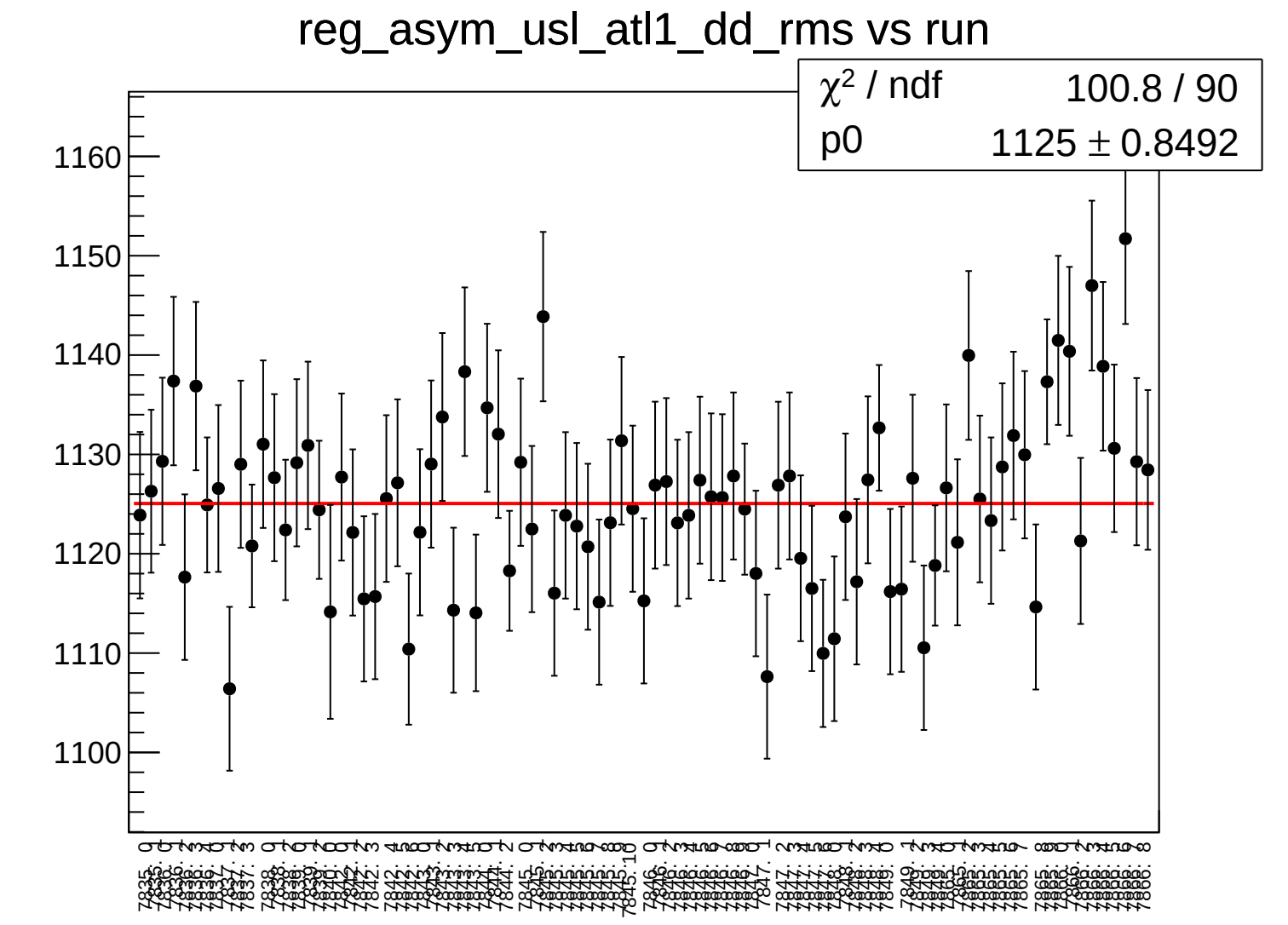

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.69 / 90
p0 −1.765e−14 ± 9.541e−14
pull
Entries 91
Mean 77.48
Std Dev 19.34

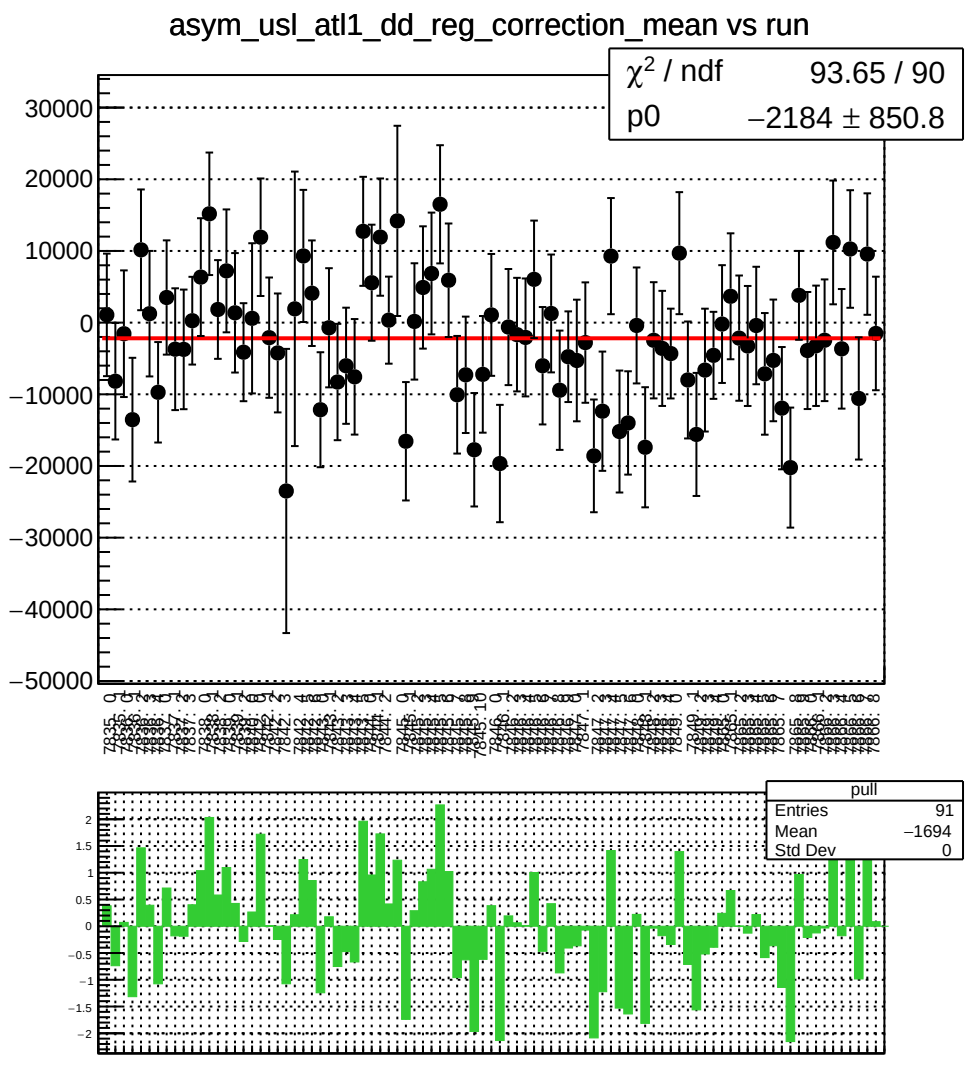

pull1D
Entries 91
Mean 0.09368
Std Dev 0.9486

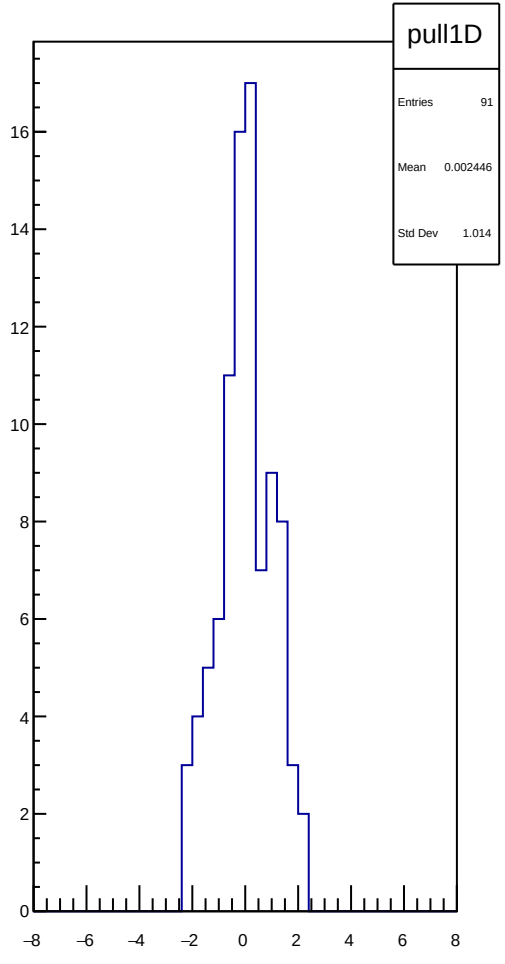

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.994e+05 / 90
p0 6.241e−11 ± 6.747e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

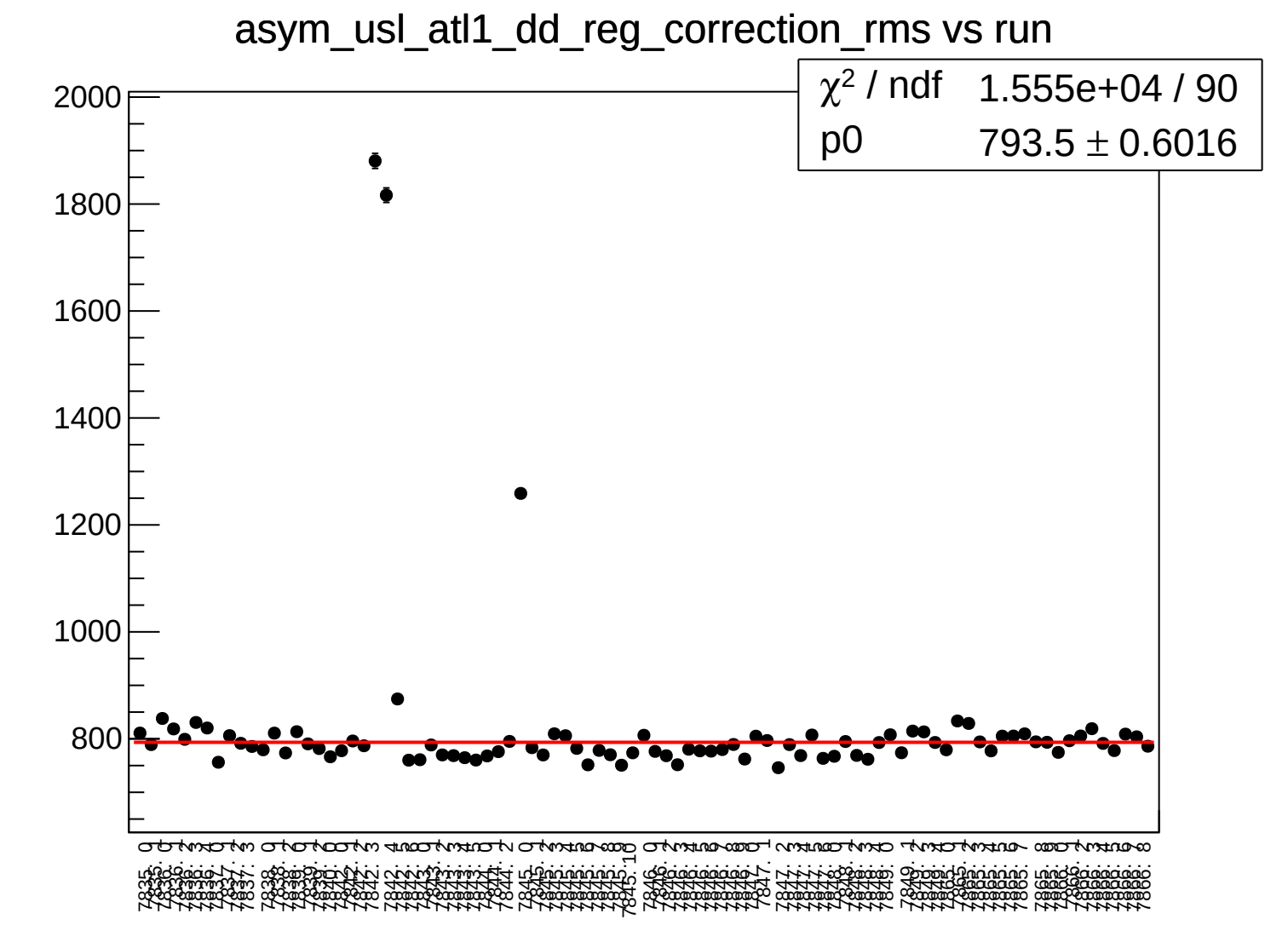

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.18 / 90
p0 30.98 ± 1201
pull
Entries 91
Mean 163.3
Std Dev 0

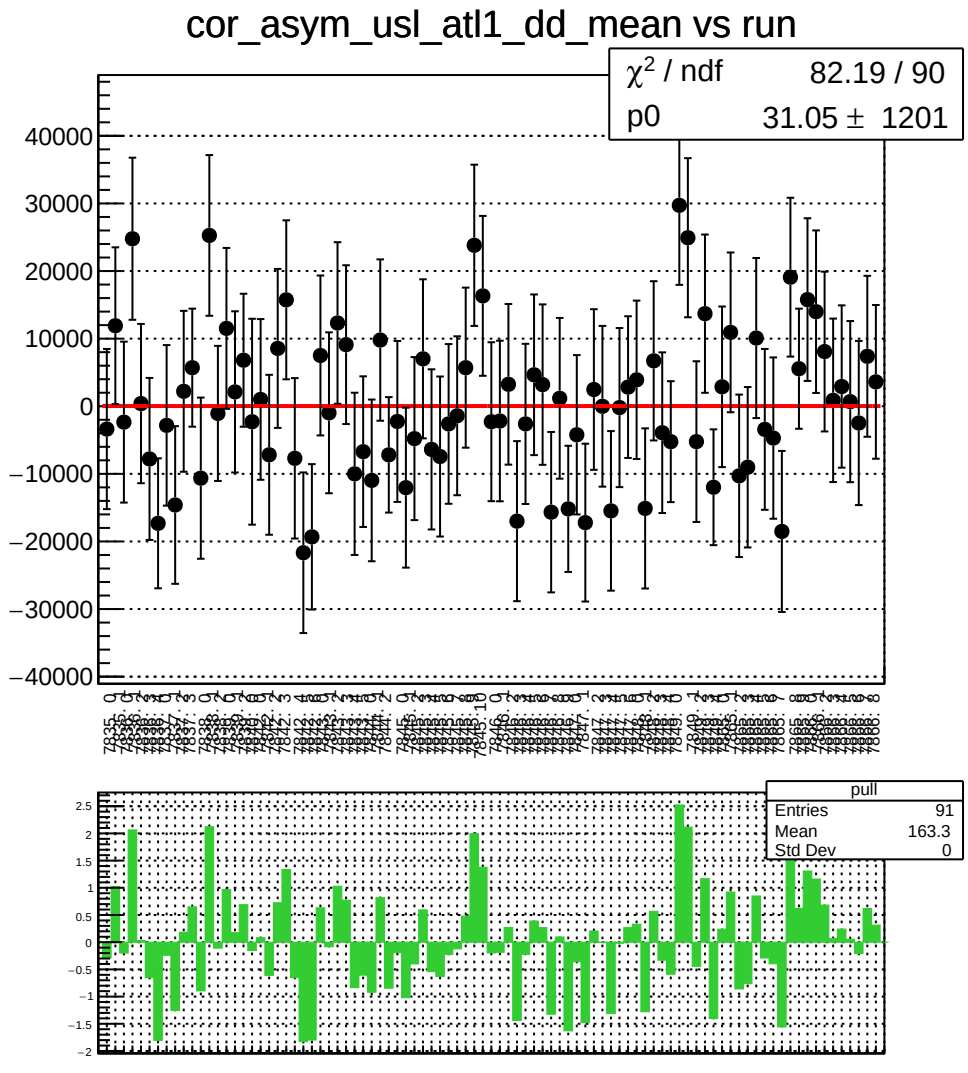

pull1D
Entries 91
Mean 0.01602
Std Dev 0.9502

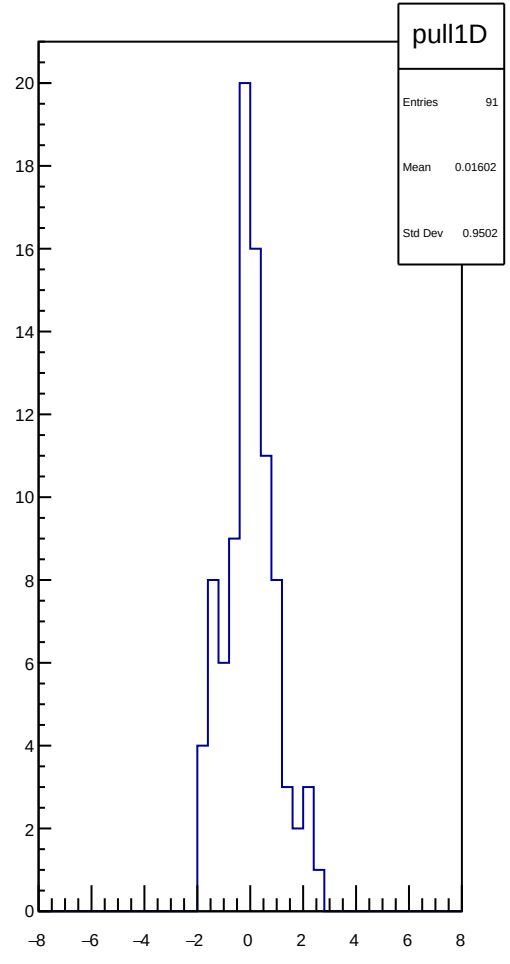

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.8 / 90
p0 1125 ± 0.8492
1160
1150
1140
1130
1120
1110
1100

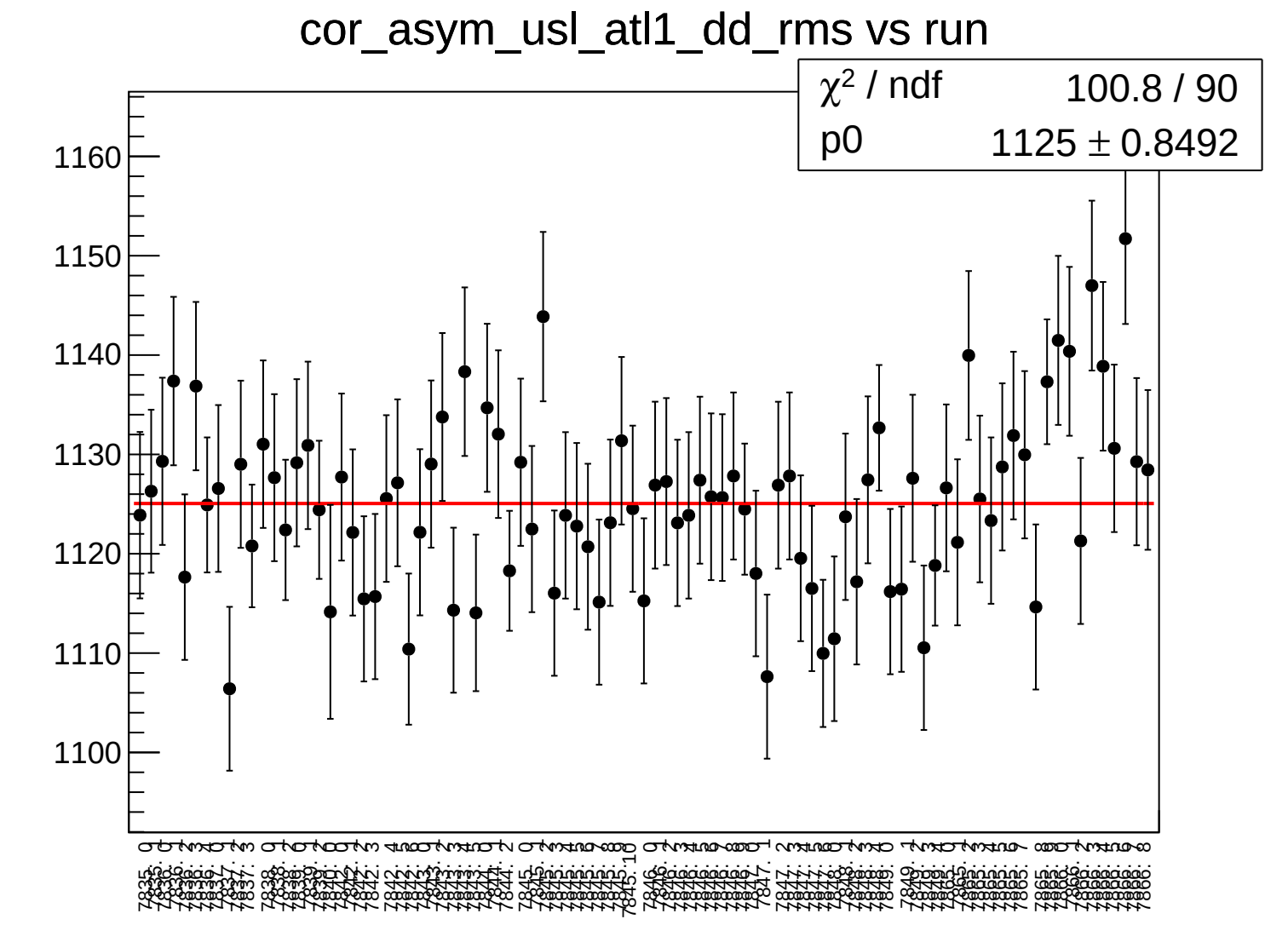

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 93.65 / 90
p0 −2184 ± 850.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean −1694
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

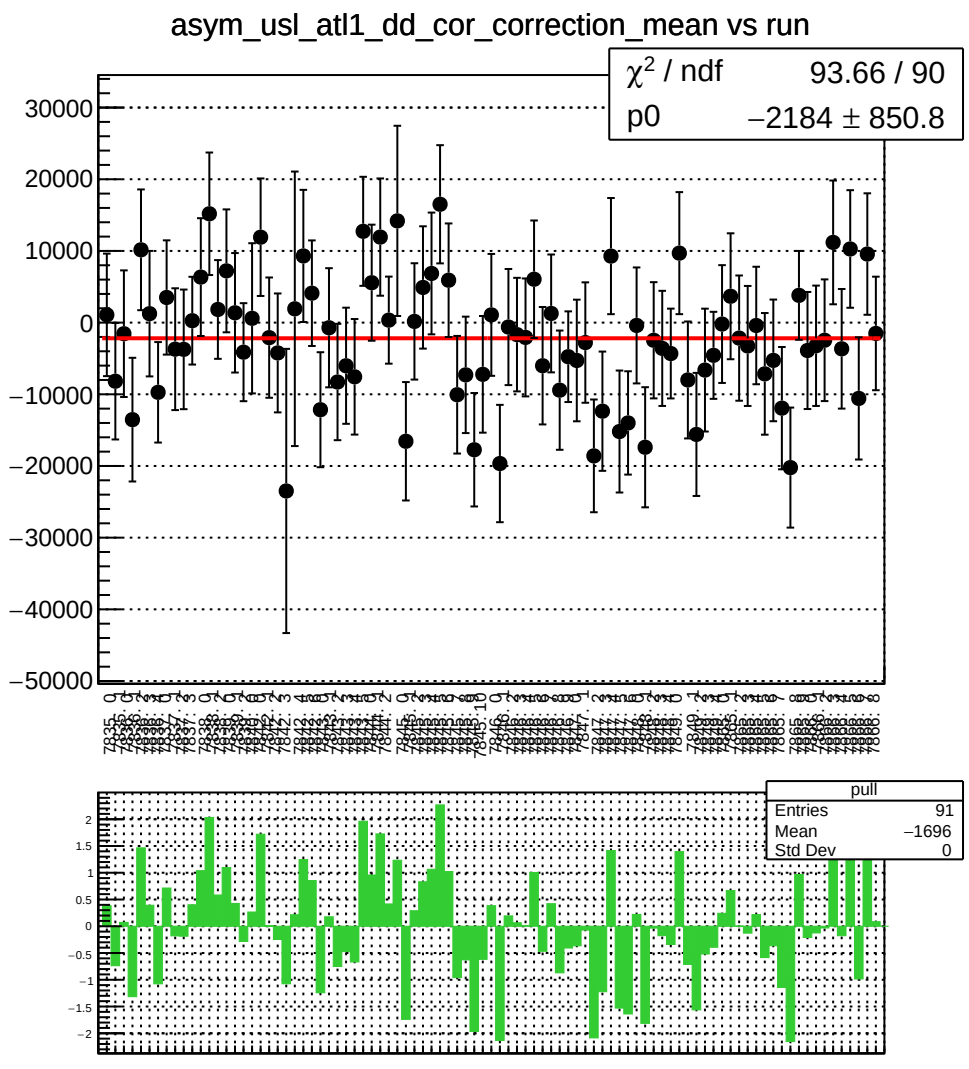

pull1D
Entries 91
Mean 0.002446
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

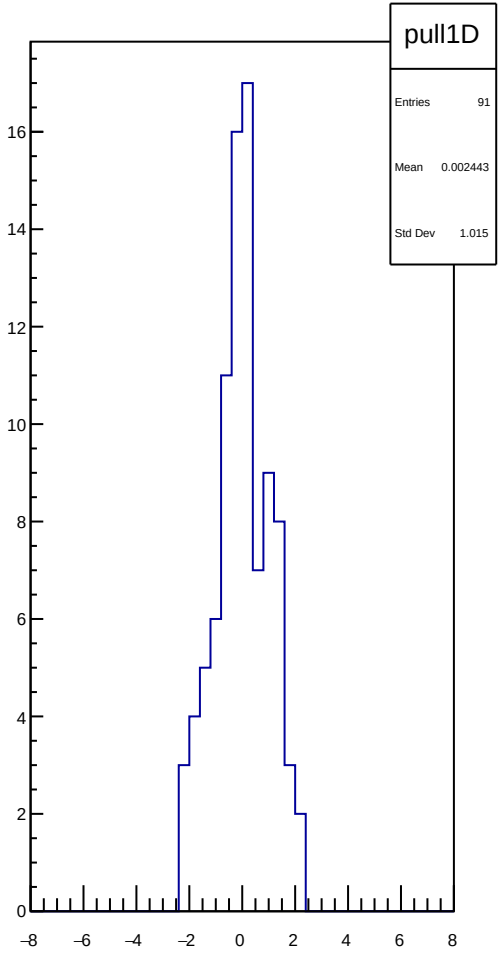

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.555e+04 / 90
p0 793.5 ± 0.6016
2000
1800
1600
1400
1200
1000
800

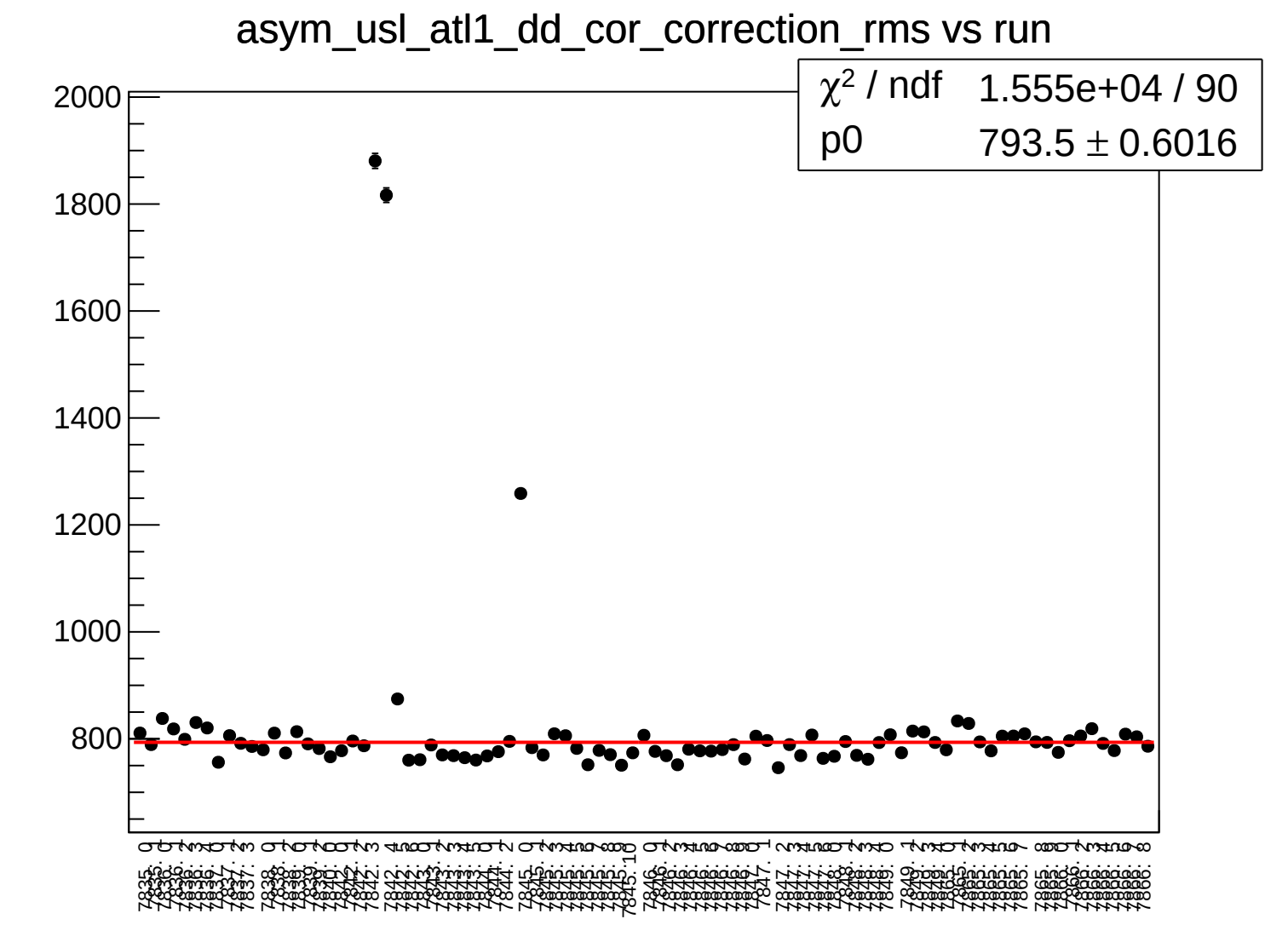

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.19 / 90
p0 31.05 ± 1201
pull
Entries 91
Mean 163.3
Std Dev 0

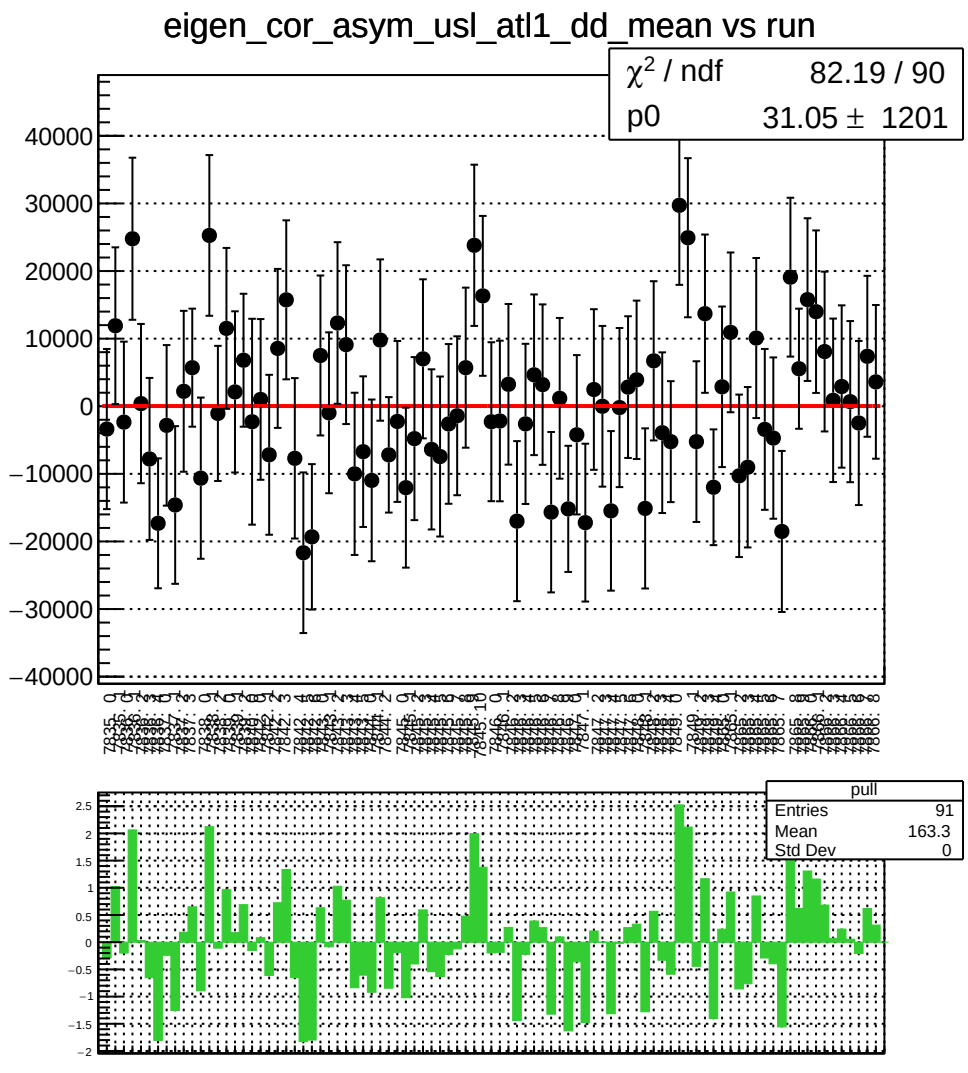

pull1D
Entries 91
Mean 0.01602
Std Dev 0.9502

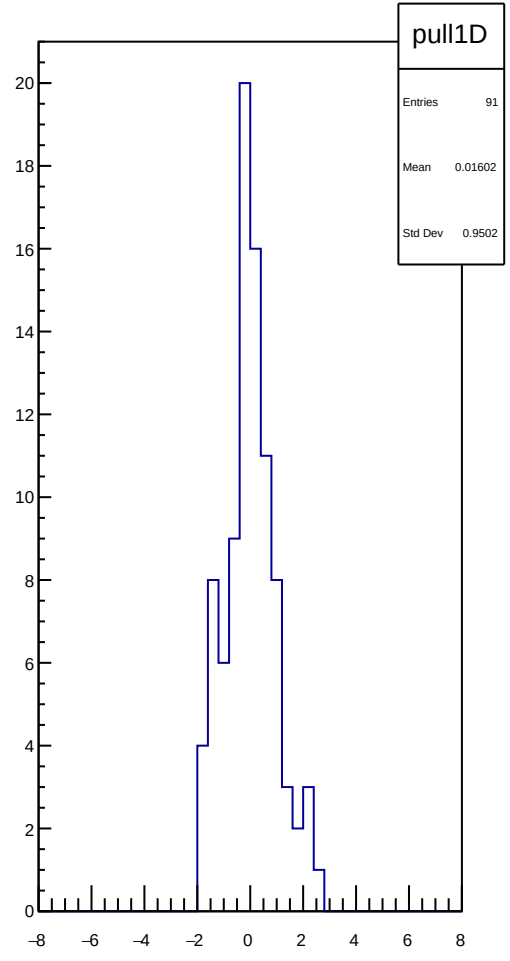

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 100.8 / 90
p0 1125 ± 0.8492
1160
1150
1140
1130
1120
1110
1100

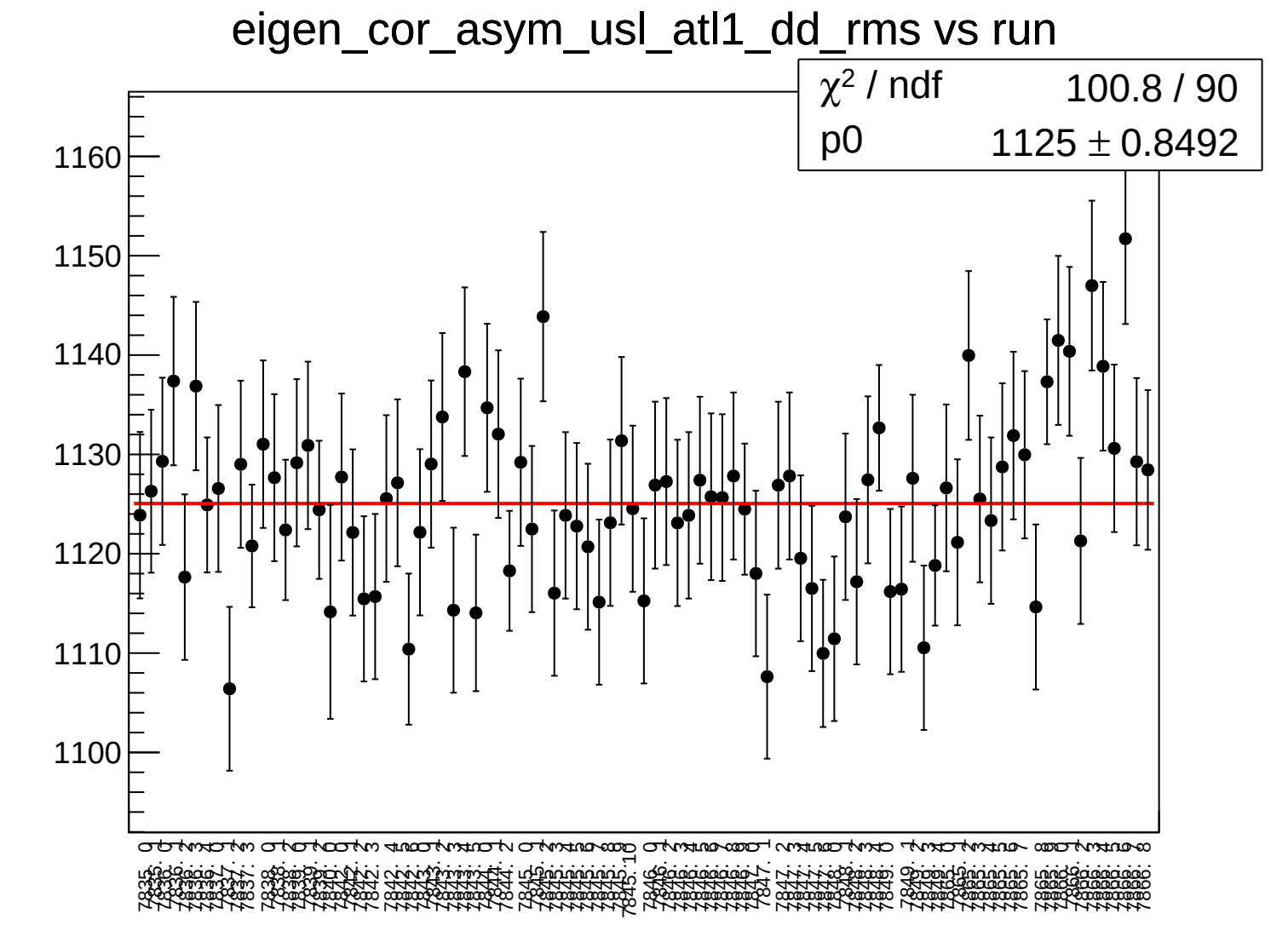

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 93.66 / 90
p0 −2184 ± 850.8
pull
Entries 91
Mean −1696
Std Dev 0

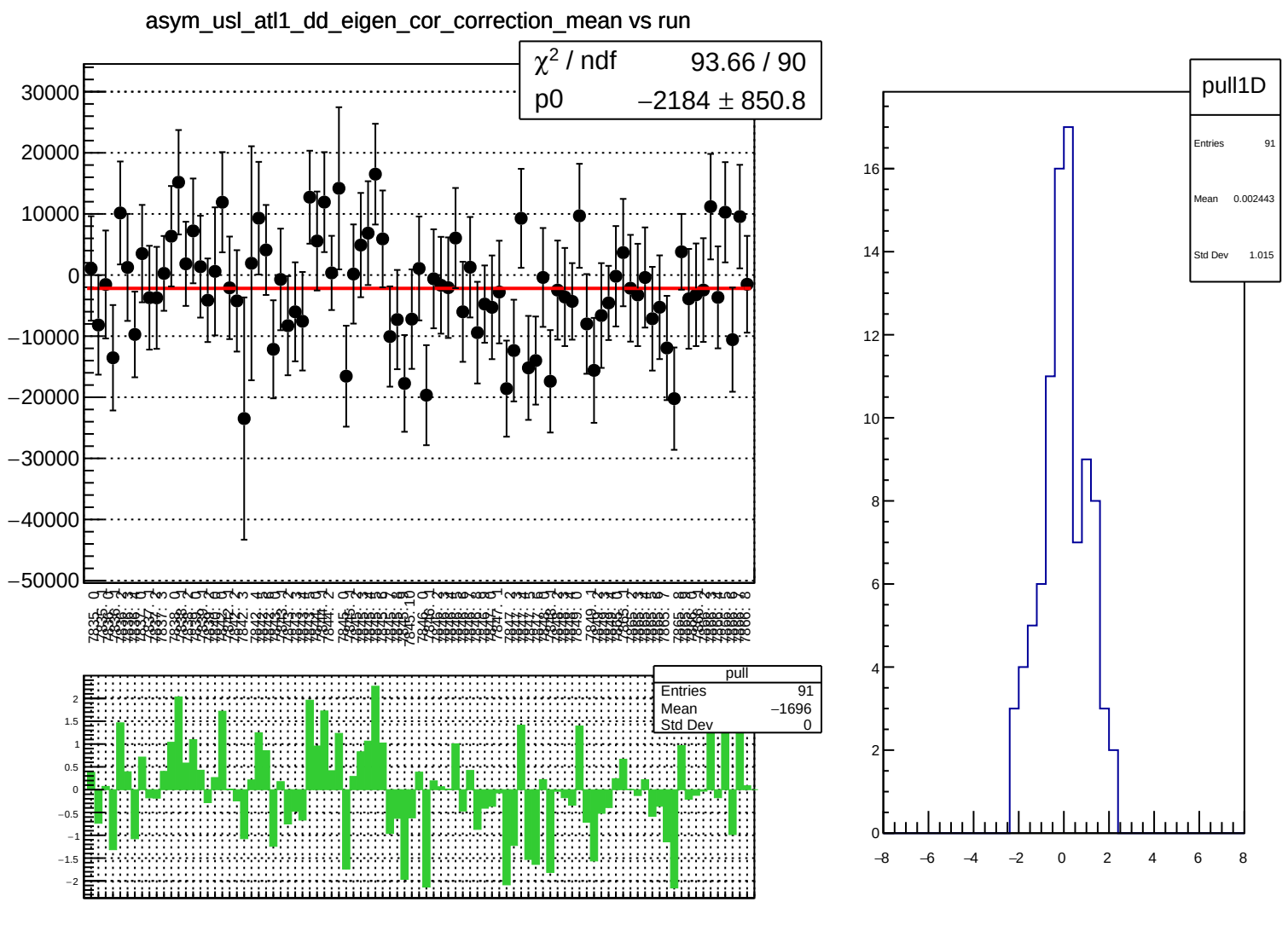

pull1D
Entries 91
Mean 0.002443
Std Dev 1.015

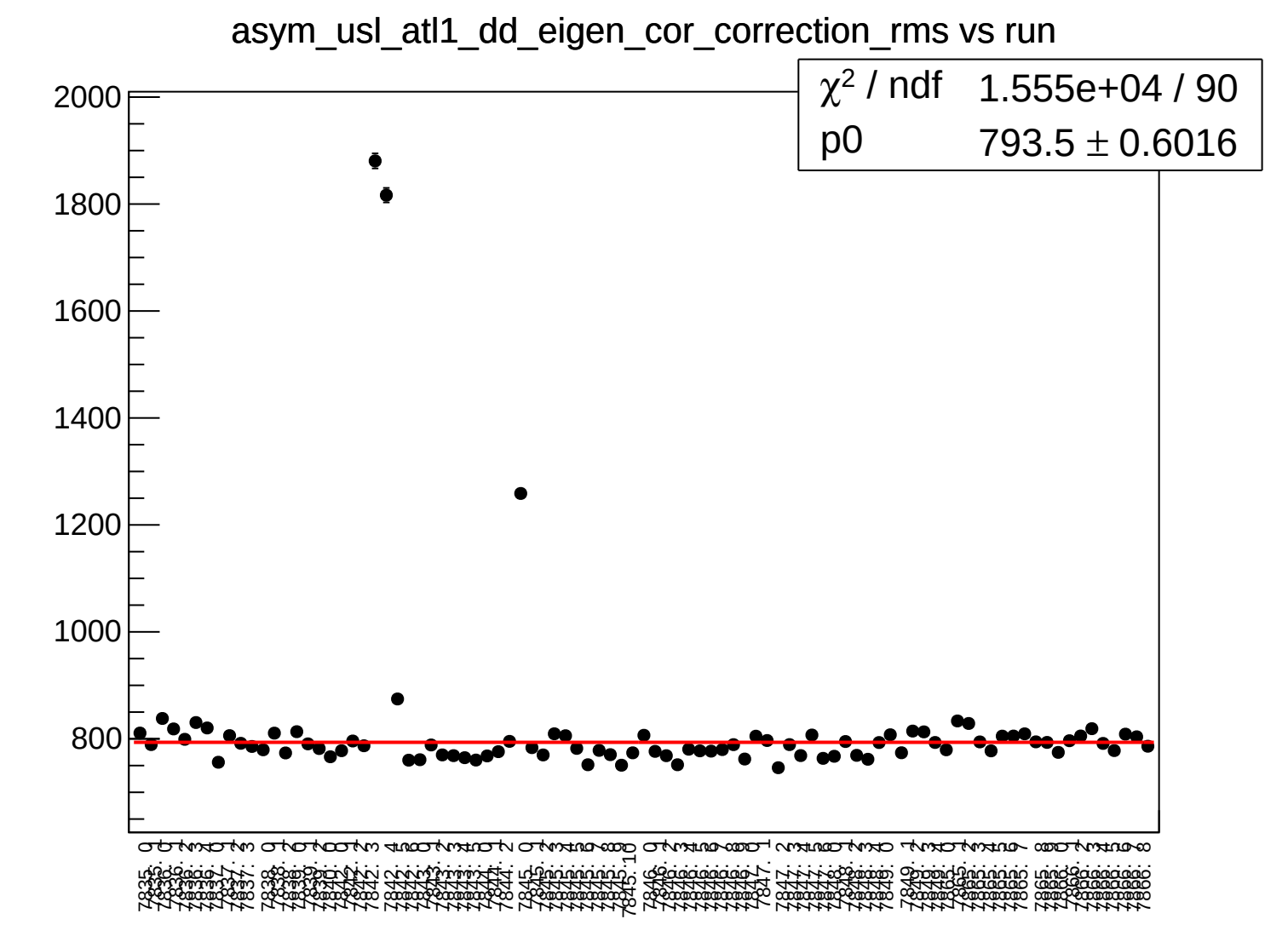

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.555e+04 / 90
p0 793.5 ± 0.6016
2000
1800
1600
1400
1200
1000
800

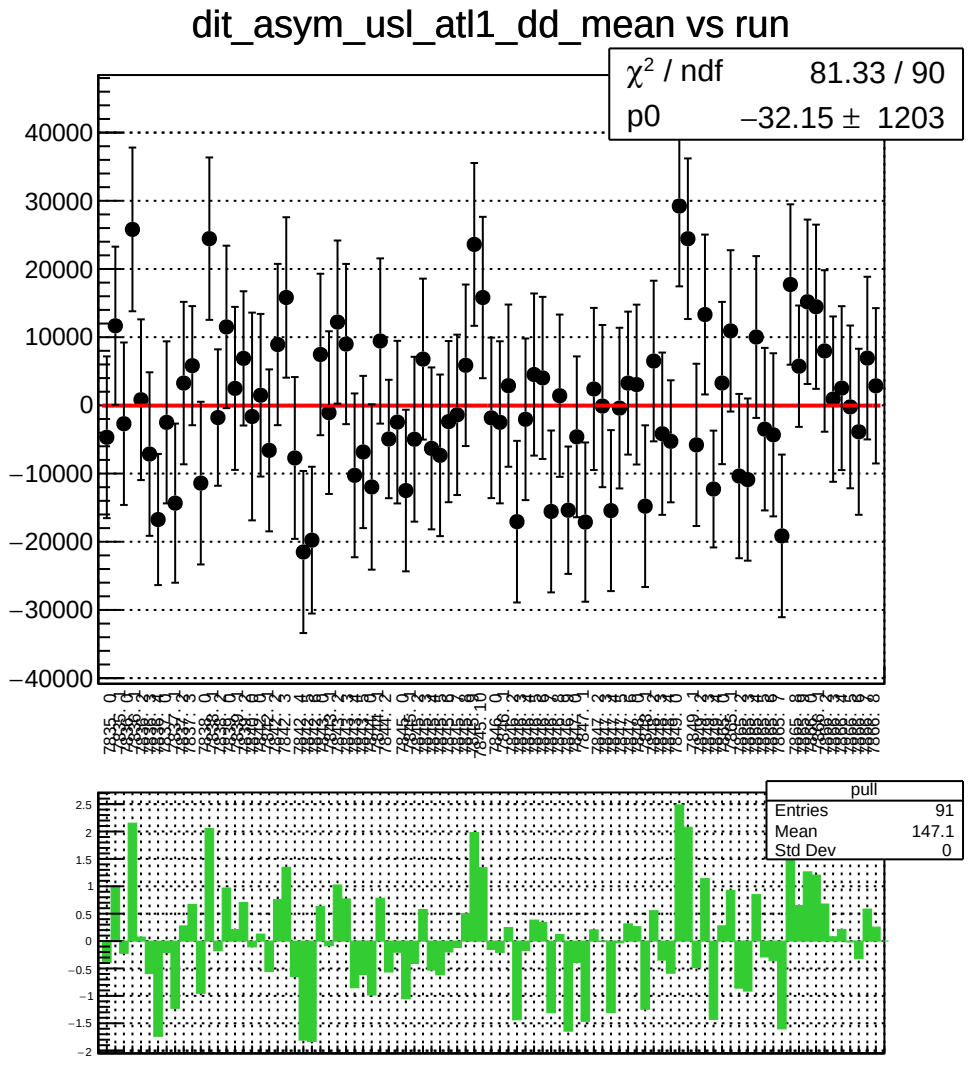

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.19 / 90
p0 31.05 ± 1201
pull
Entries 91
Mean 163.3
Std Dev 0

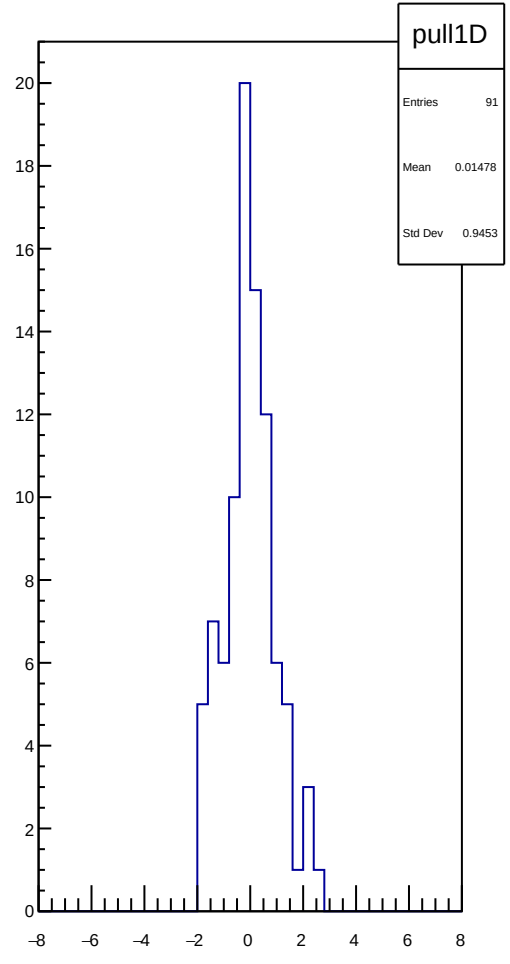

pull1D
Entries 91
Mean 0.01602
Std Dev 0.9502

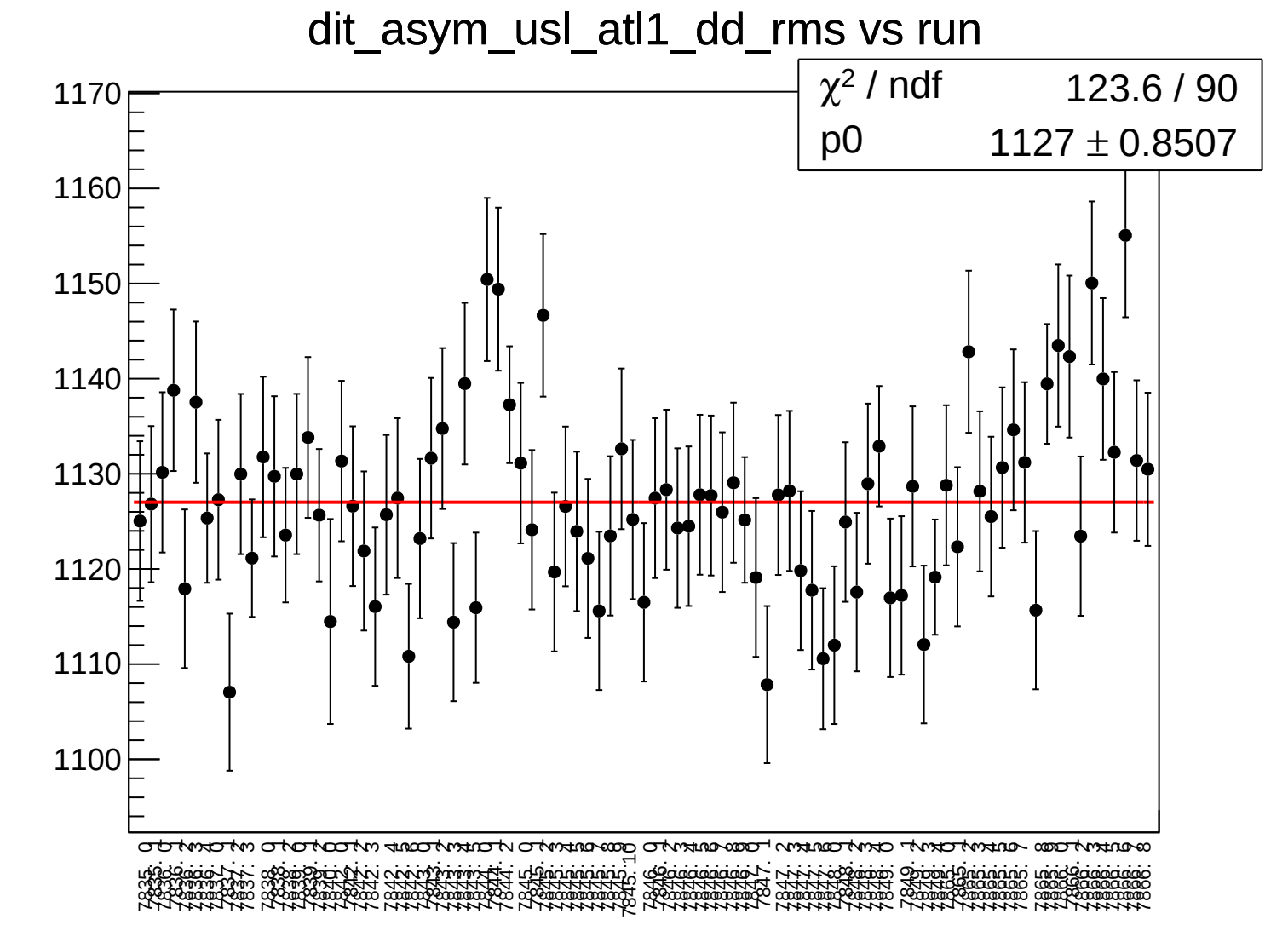

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.8 / 90
p0 1125 ± 0.8492
1160
1150
1140
1130
1120
1110
1100

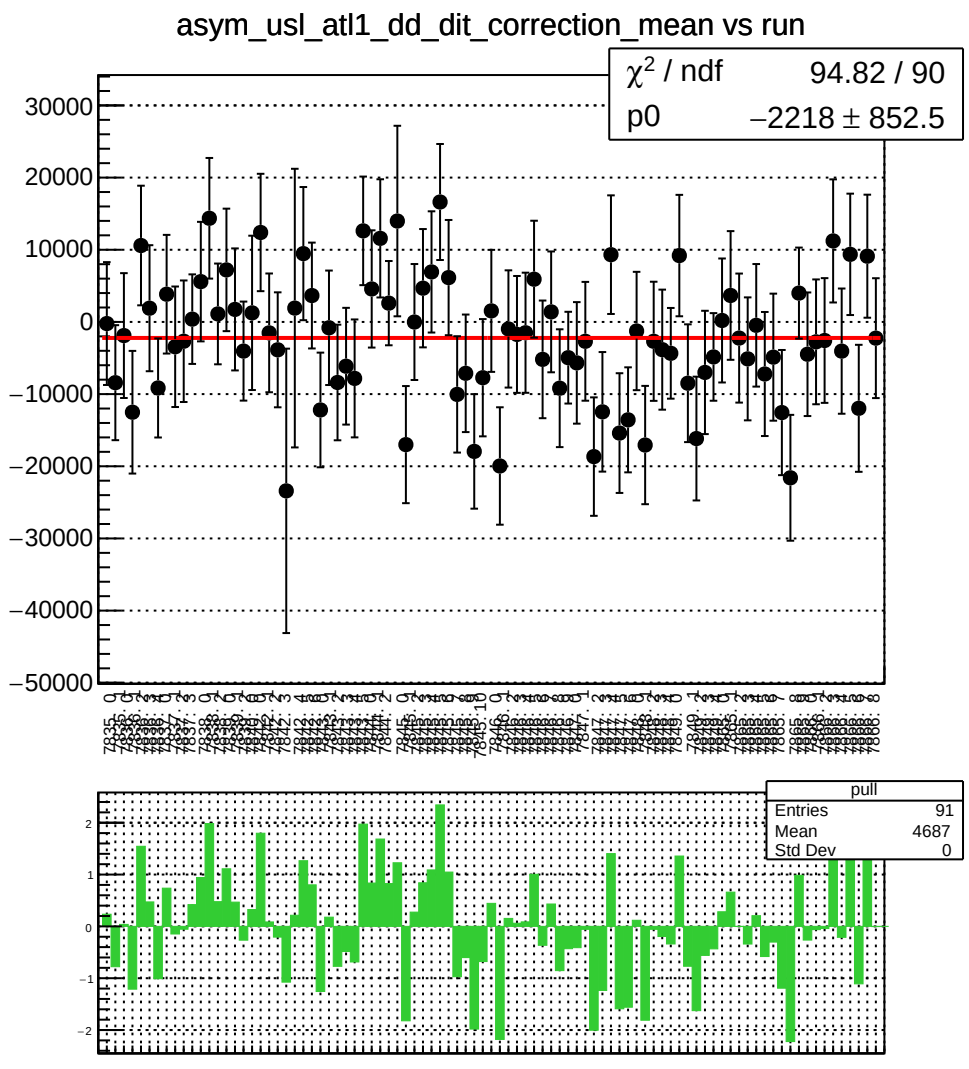

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.66 / 90
p0 −2184 ± 850.8
pull
Entries 91
Mean −1696
Std Dev 0
pull1D
Entries 91
Mean 0.002443
Std Dev 1.015

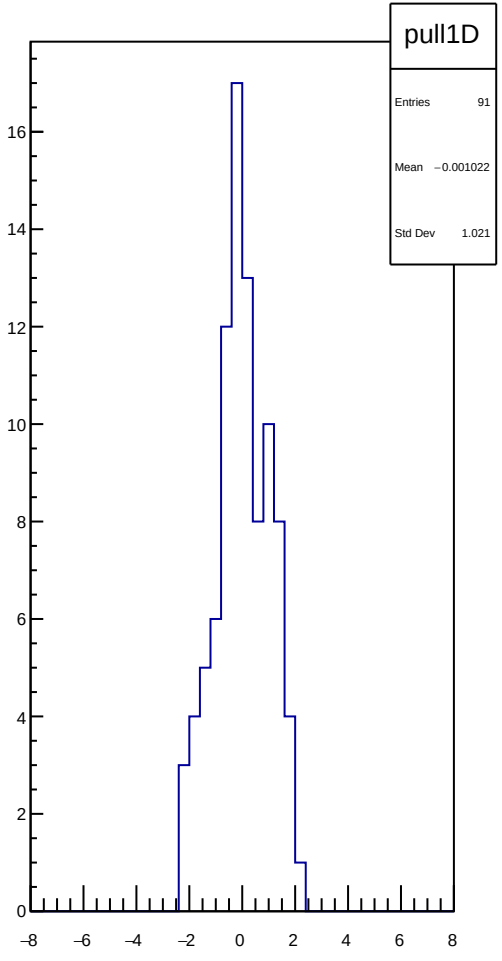

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.555e+04 / 90
p0 793.5 ± 0.6016
2000
1800
1600
1400
1200
1000
800

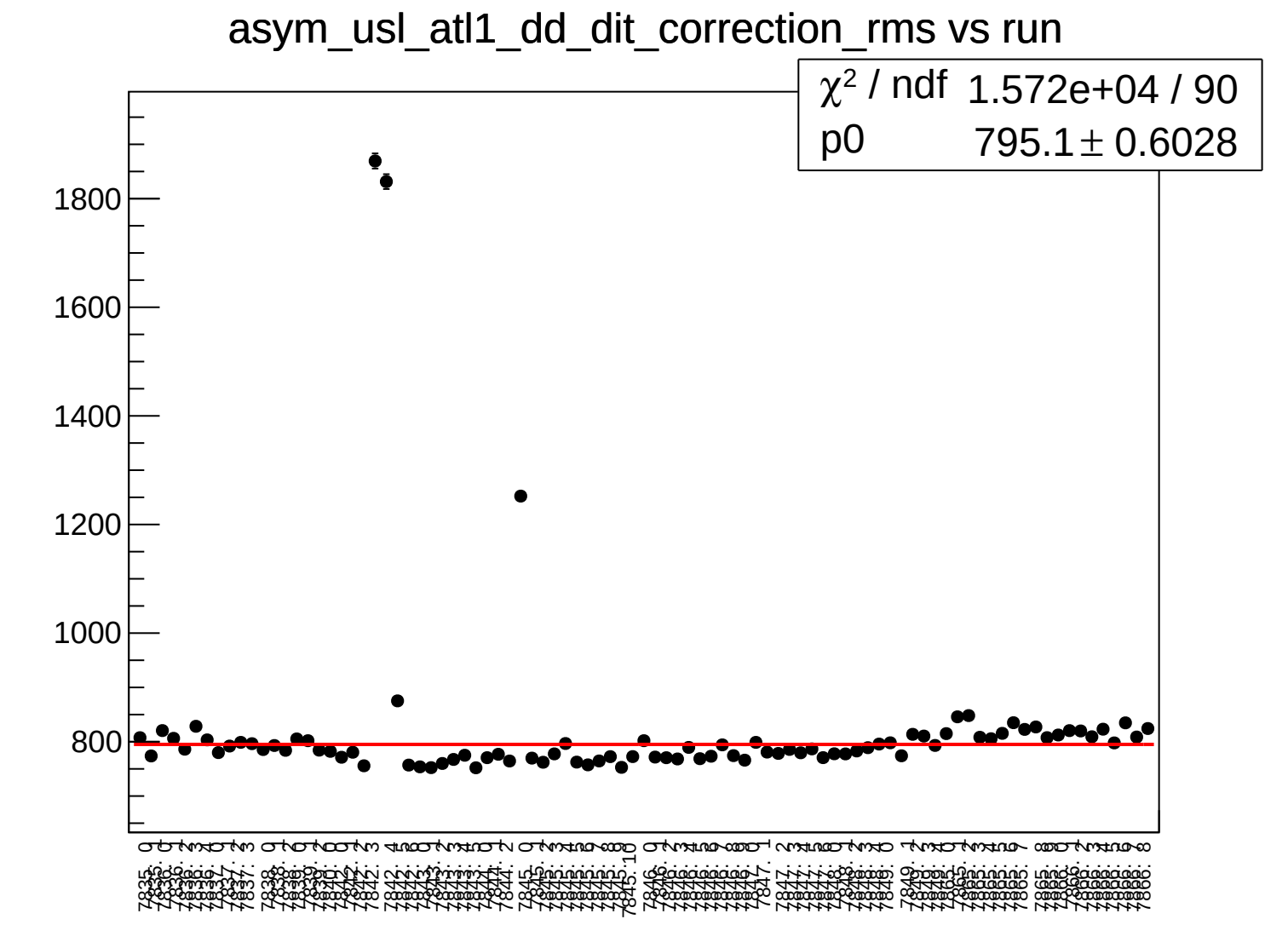

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.33 / 90
p0 −32.15 ± 1203
pull
Entries 91
Mean 147.1
Std Dev 0

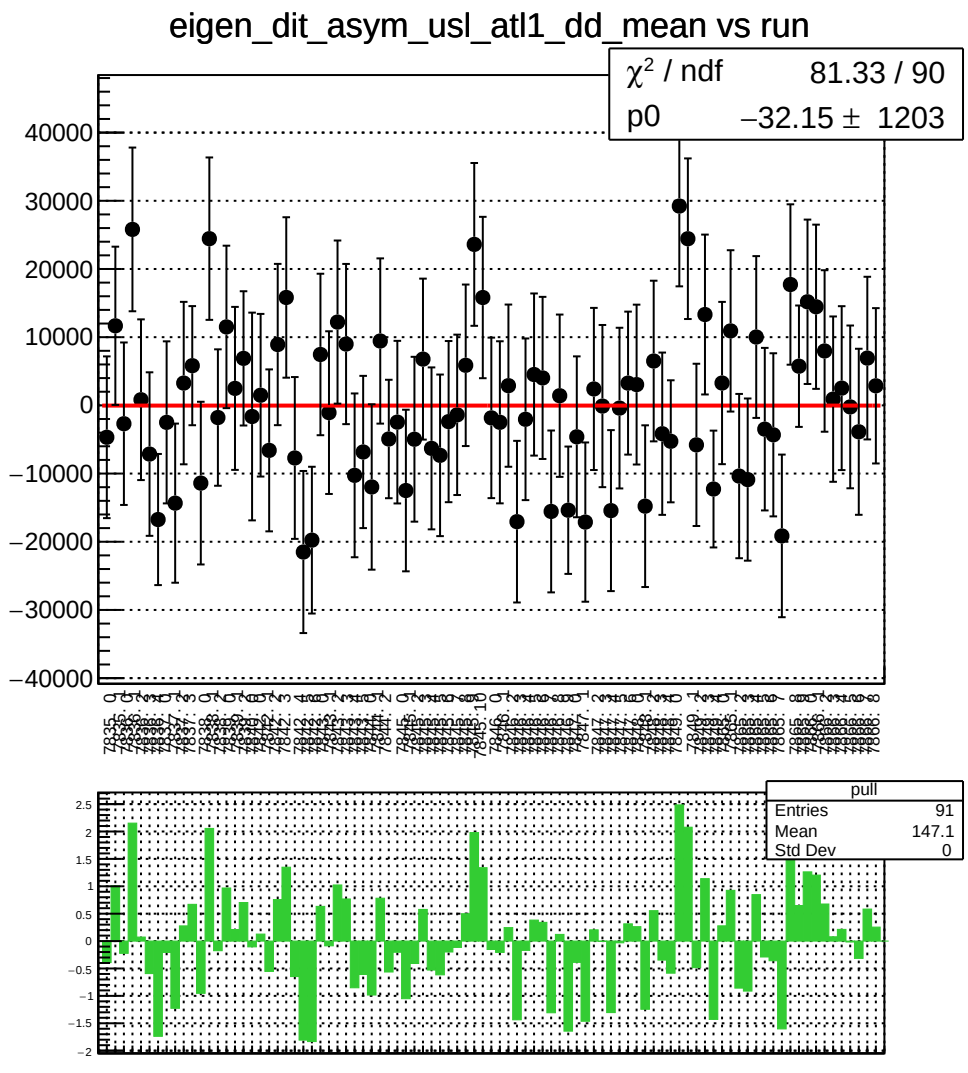

pull1D
Entries 91
Mean 0.01478
Std Dev 0.9453

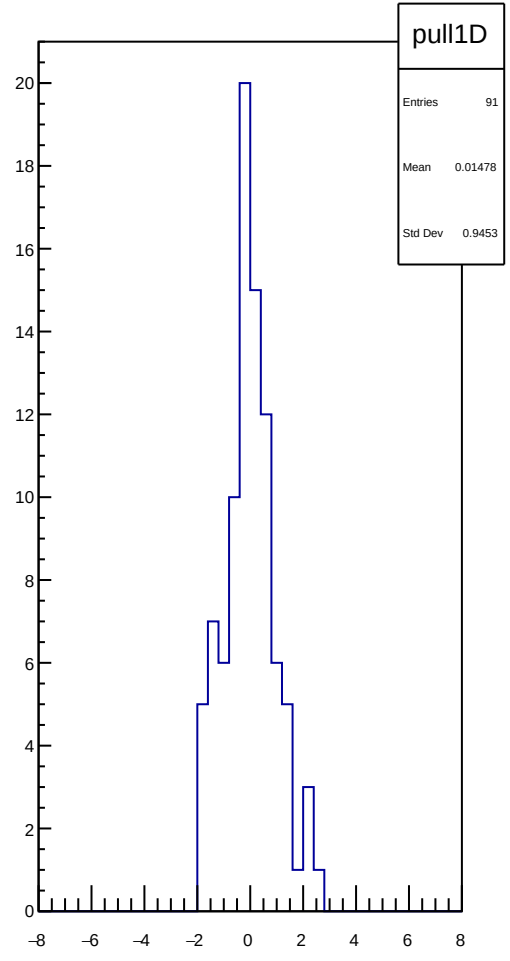

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 123.6 / 90
p0 1127 ± 0.8507
1170
1160
1150
1140
1130
1120
1110
1100

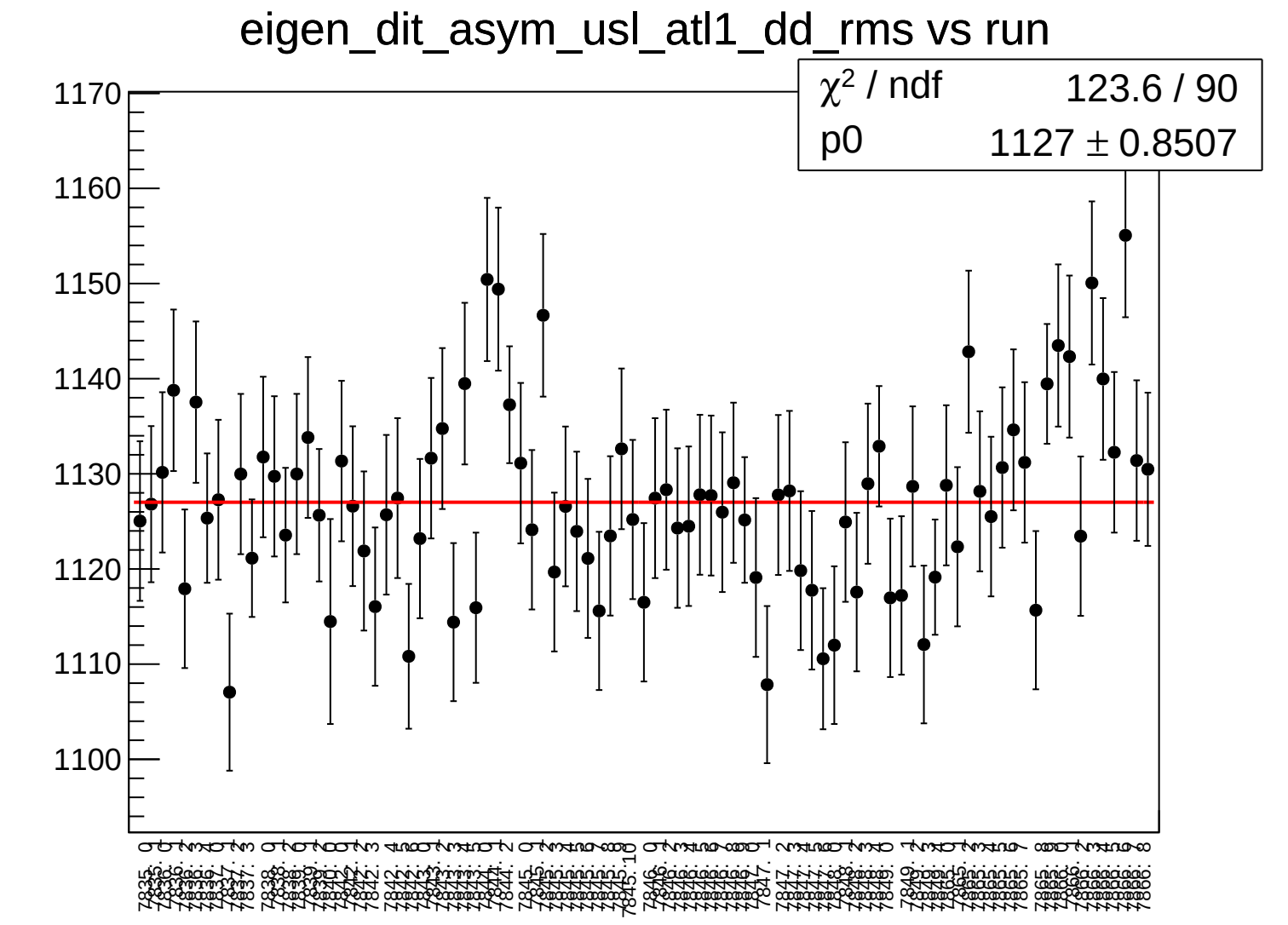

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 94.82 / 90
p0 −2218 ± 852.5
pull
Entries 91
Mean 4687
Std Dev 0

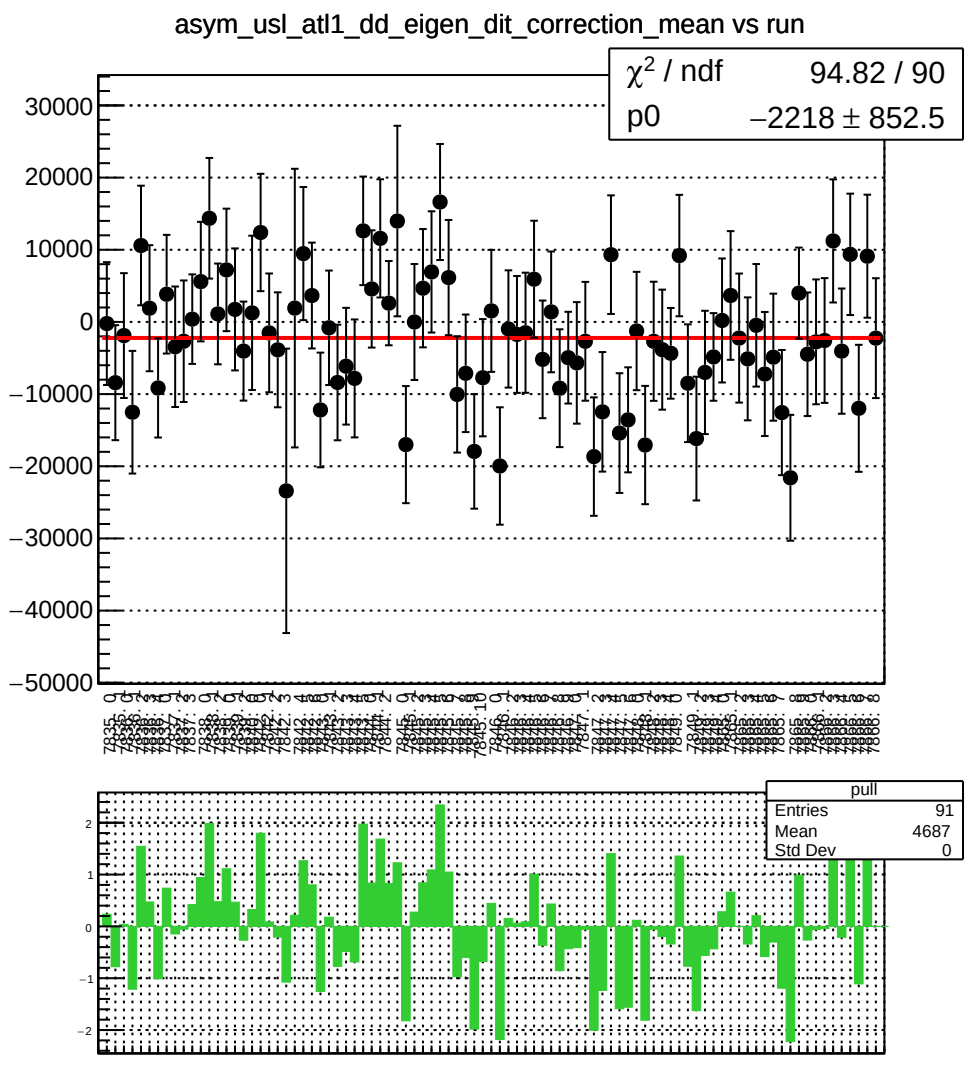

pull1D
Entries 91
Mean −0.001022
Std Dev 1.021

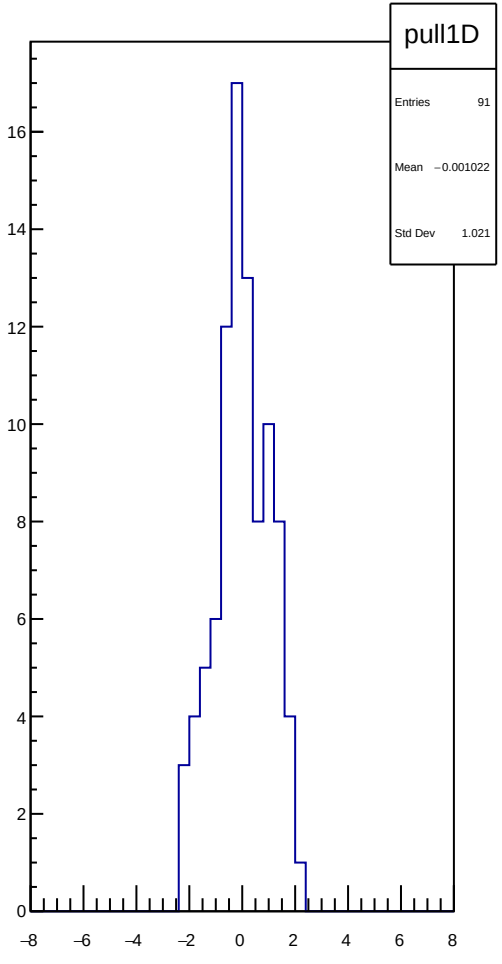

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 90
p0 795.1 ± 0.6028
1800
1600
1400
1200
1000
800

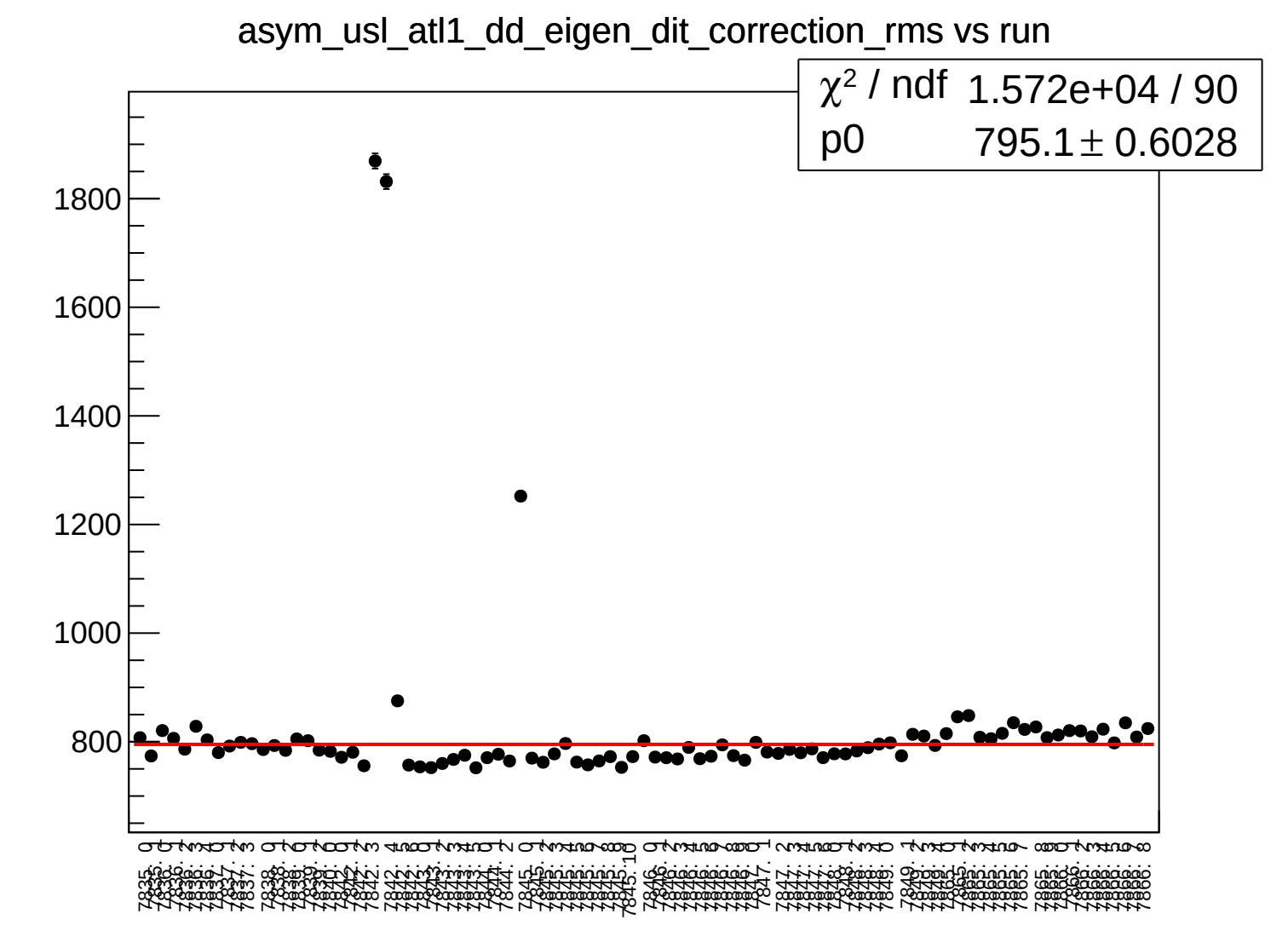

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.33 / 90
p0 −32.15 ± 1203
pull
Entries 91
Mean 147.1
Std Dev 0

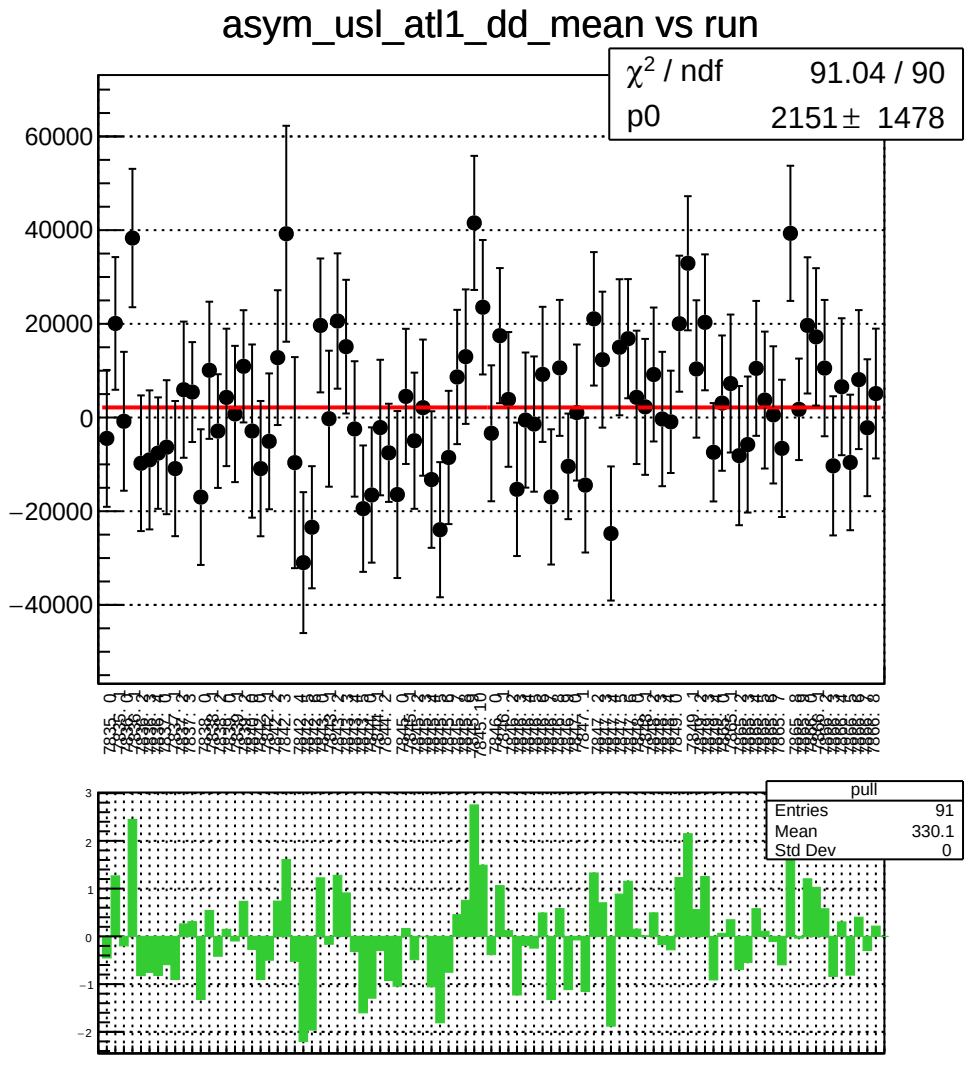

pull1D
Entries 91
Mean 0.01478
Std Dev 0.9453

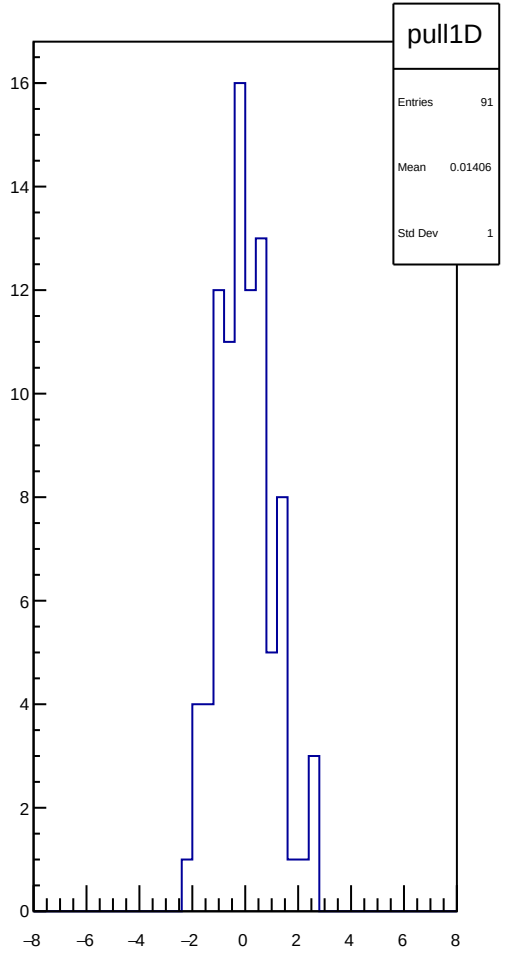

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 123.6 / 90
p0 1127 ± 0.8507
1170
1160
1150
1140
1130
1120
1110
1100


asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.82 / 90
p0 −2218 ± 852.5
pull
Entries 91
Mean 4687
Std Dev 0

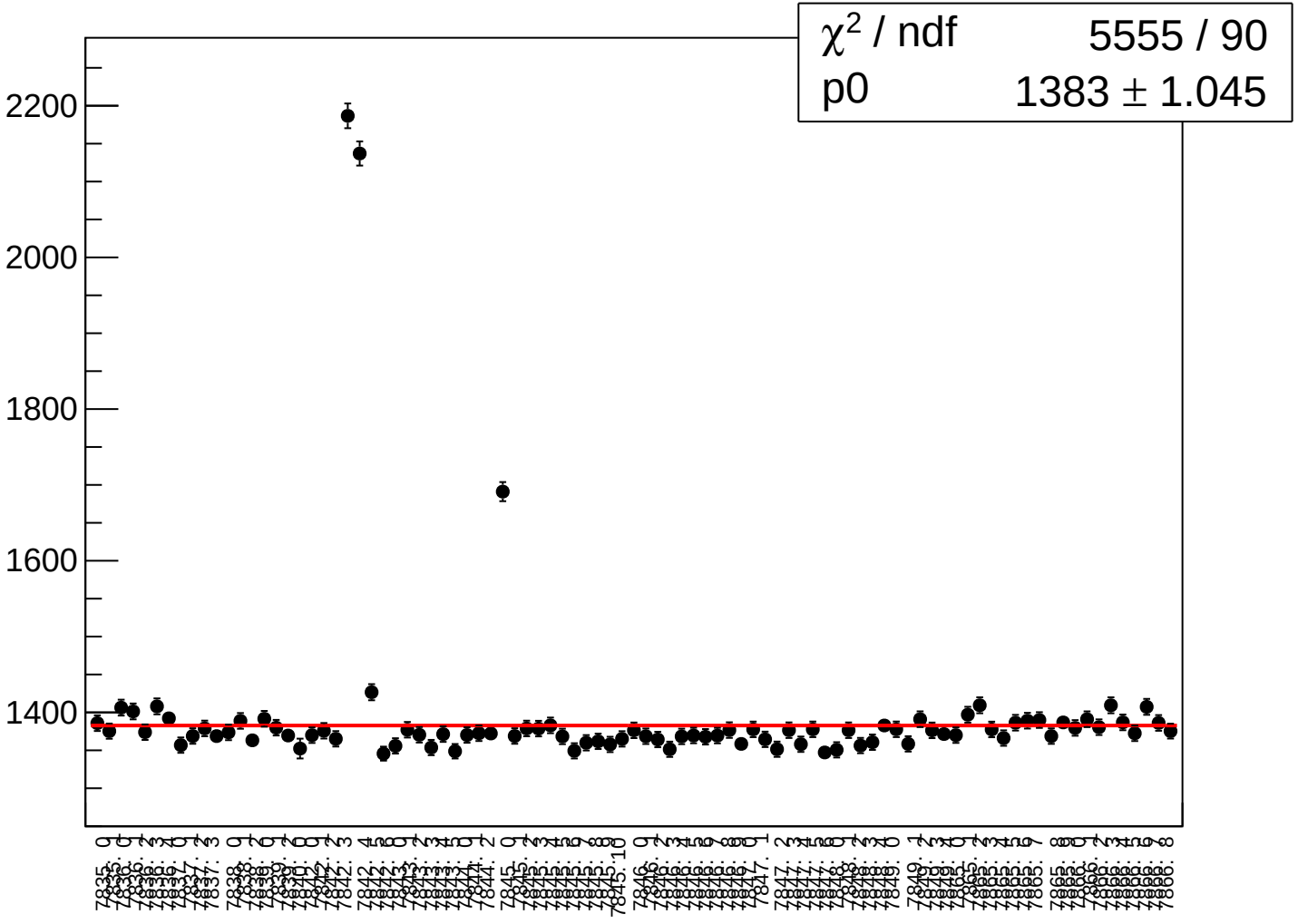

pull1D
Entries 91
Mean −0.001022
Std Dev 1.021

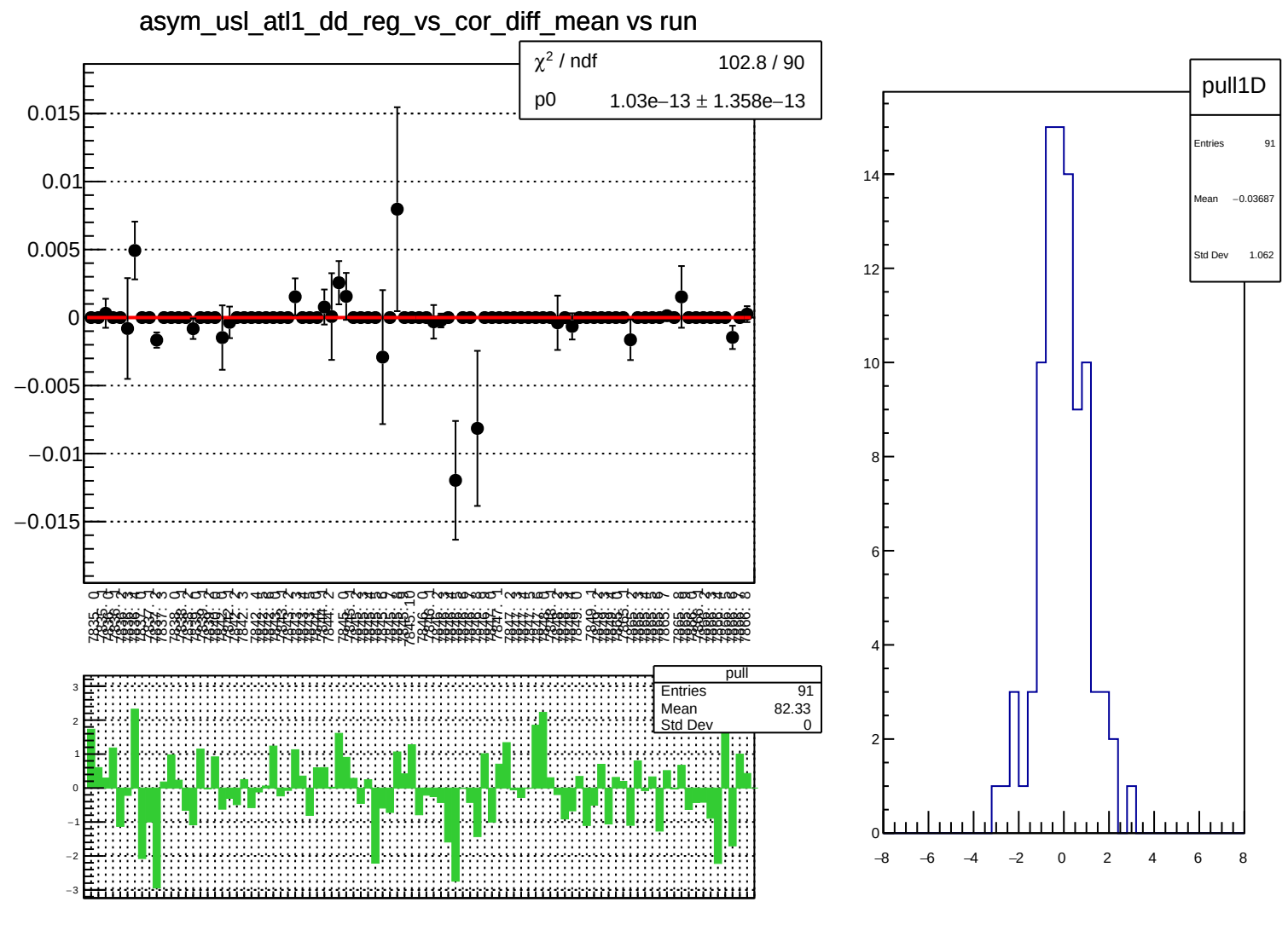

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 90
p0 795.1 ± 0.6028
1800
1600
1400
1200
1000
800

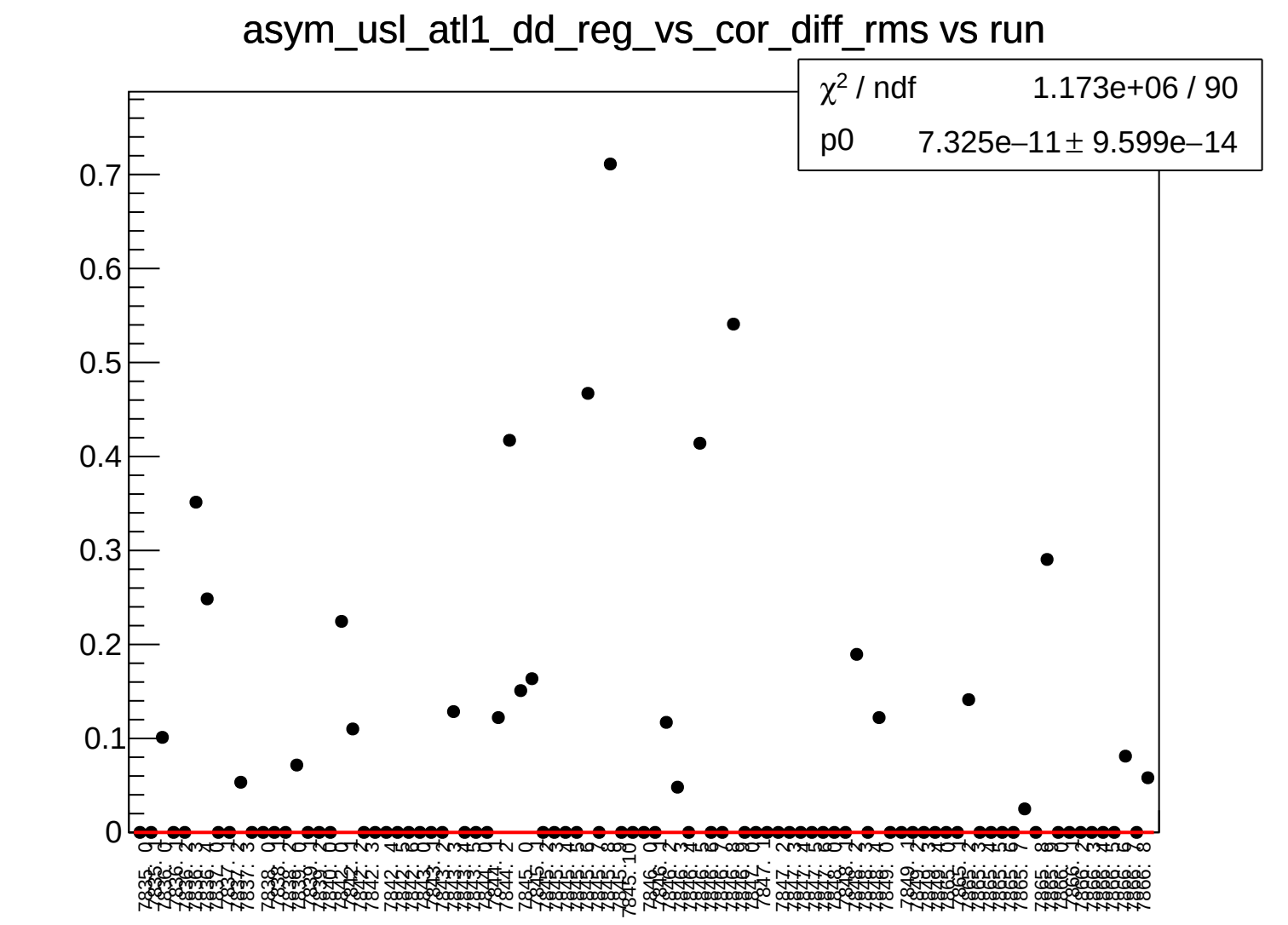

asym_usl_atl1_dd_mean vs run
χ² / ndf 91.04 / 90
p0 2151 ± 1478
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 330.1
Std Dev 0
3
2
1
0
−1
−2

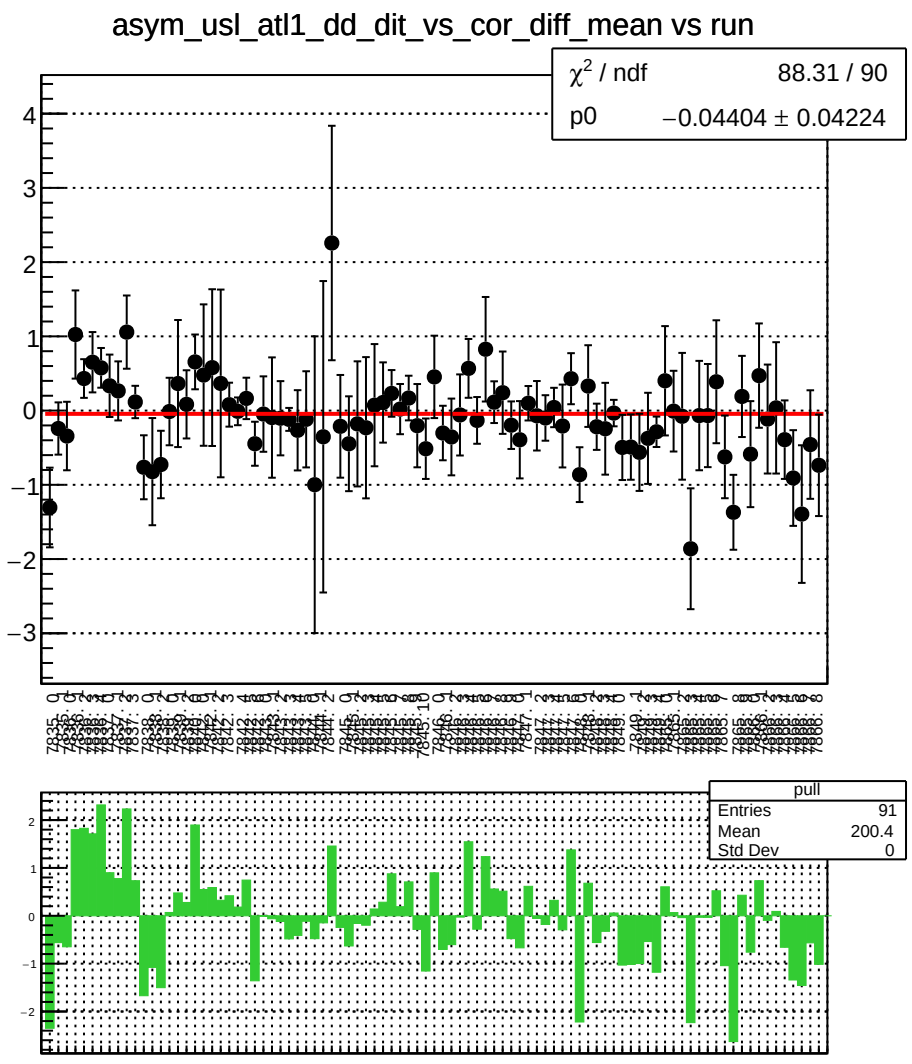

pull1D
Entries 91
Mean 0.01406
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

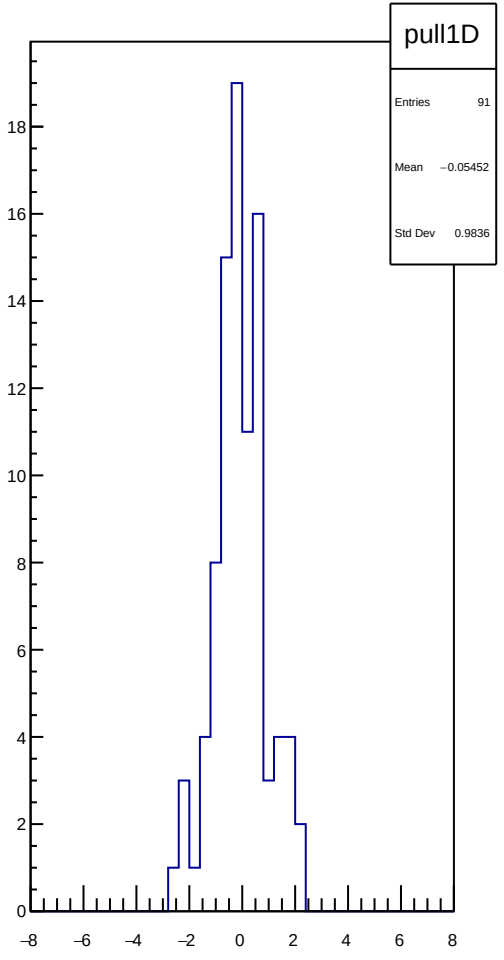
asym_usl_atl1_dd_rms vs run

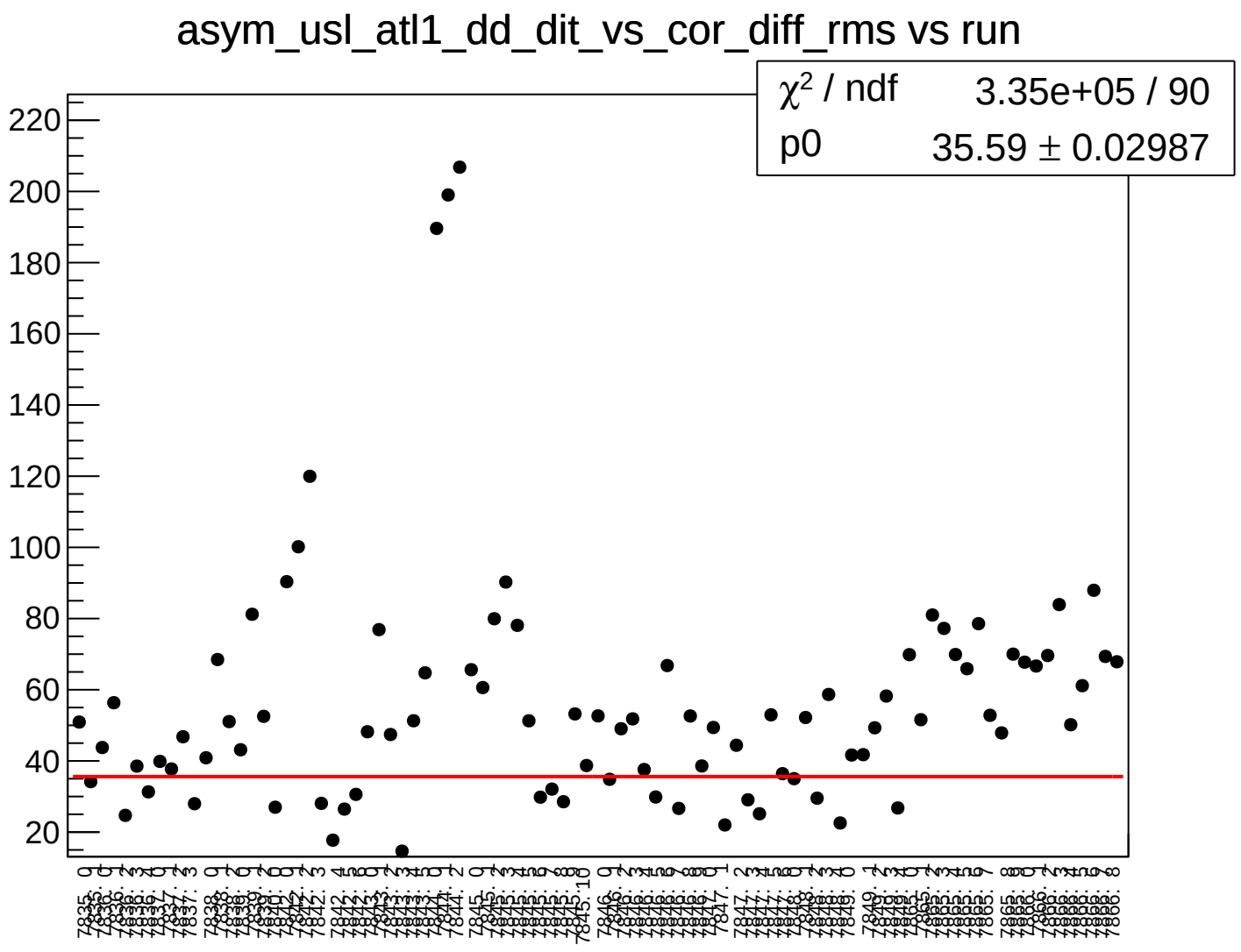


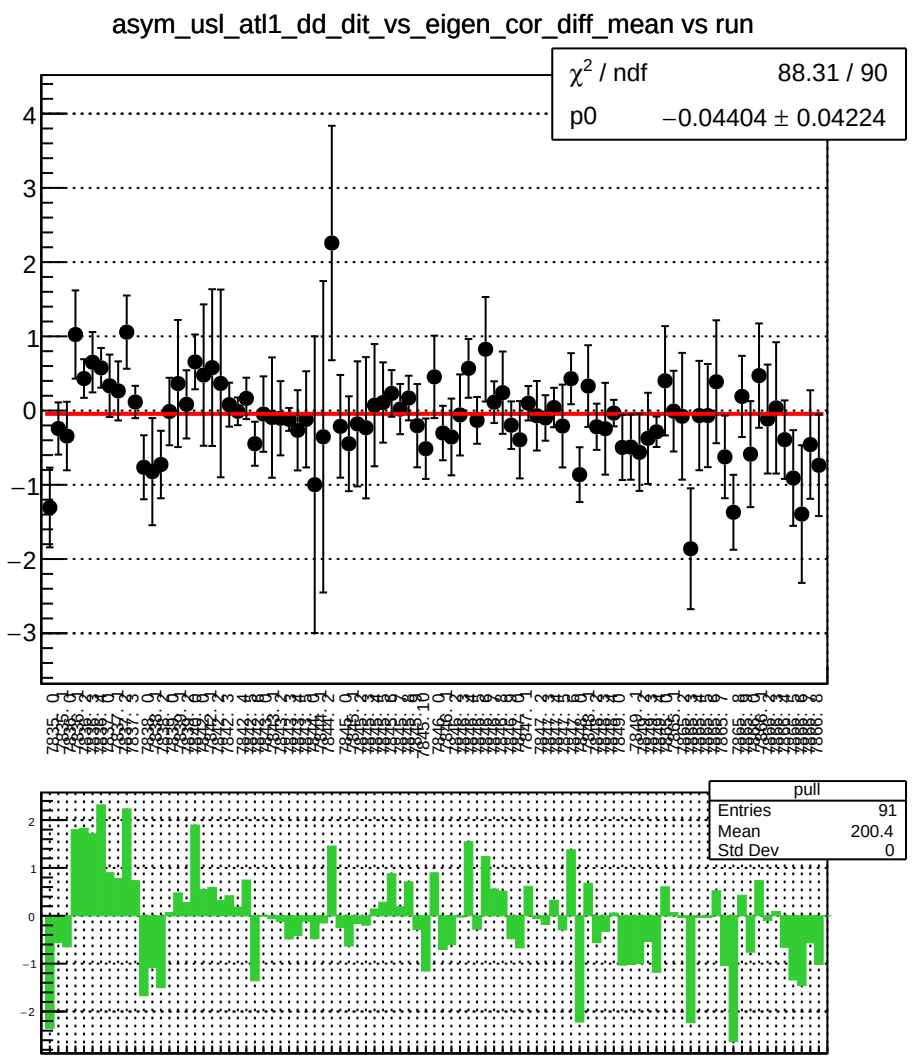

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 1.03e−13 ± 1.358e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 82.33
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.03687
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

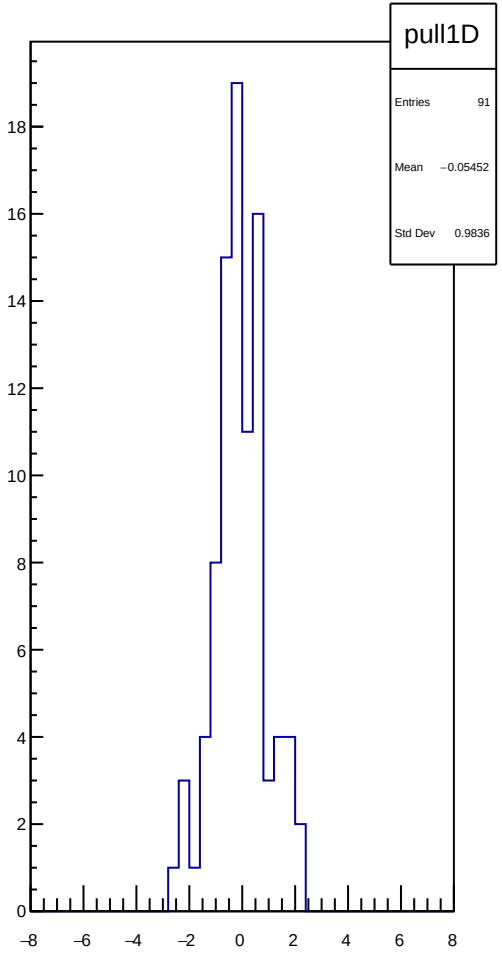

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 90
p0 7.325e−11 ± 9.599e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

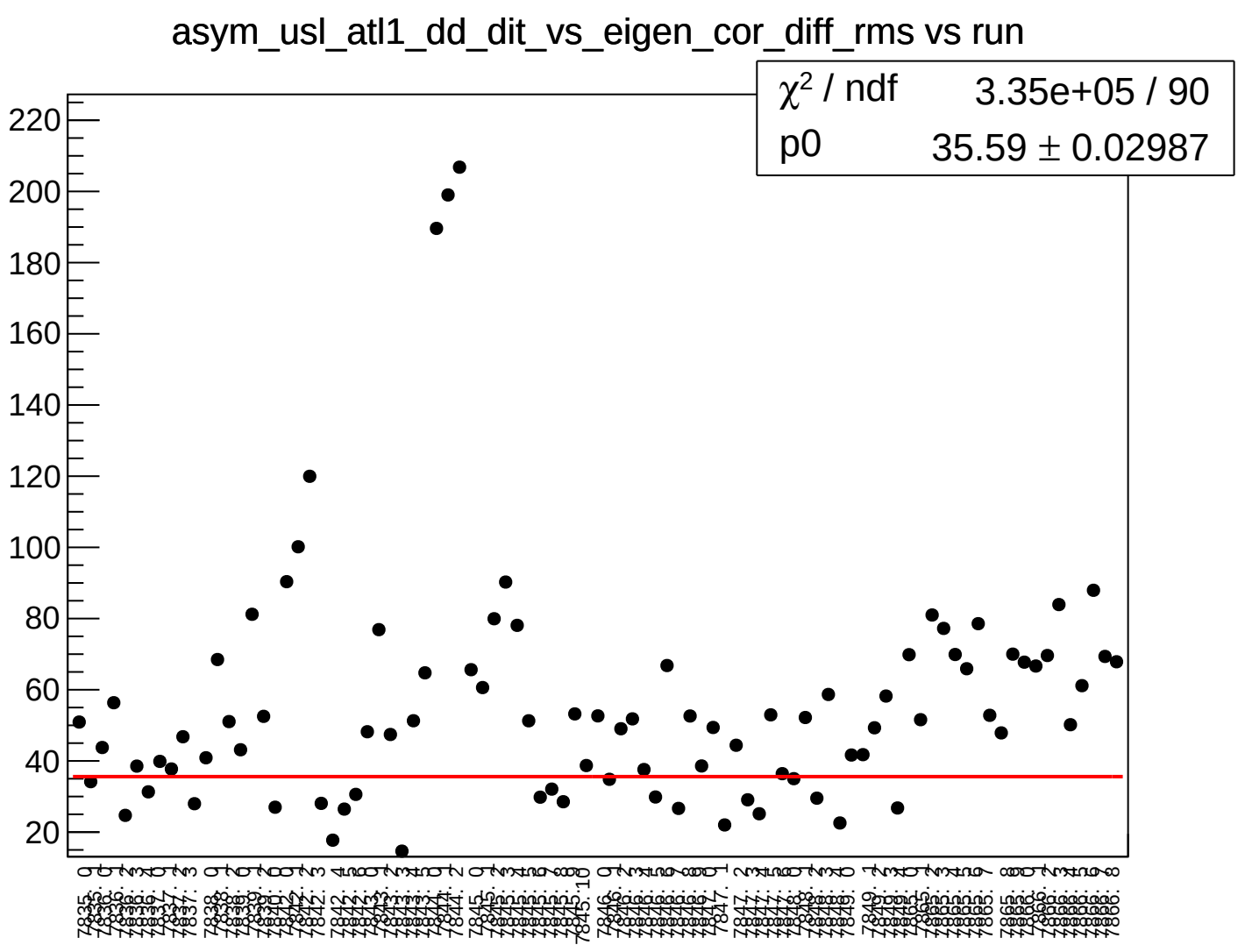

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.31 / 90
p0 −0.04404 ± 0.04224
pull
Entries 91
Mean 200.4
Std Dev 0

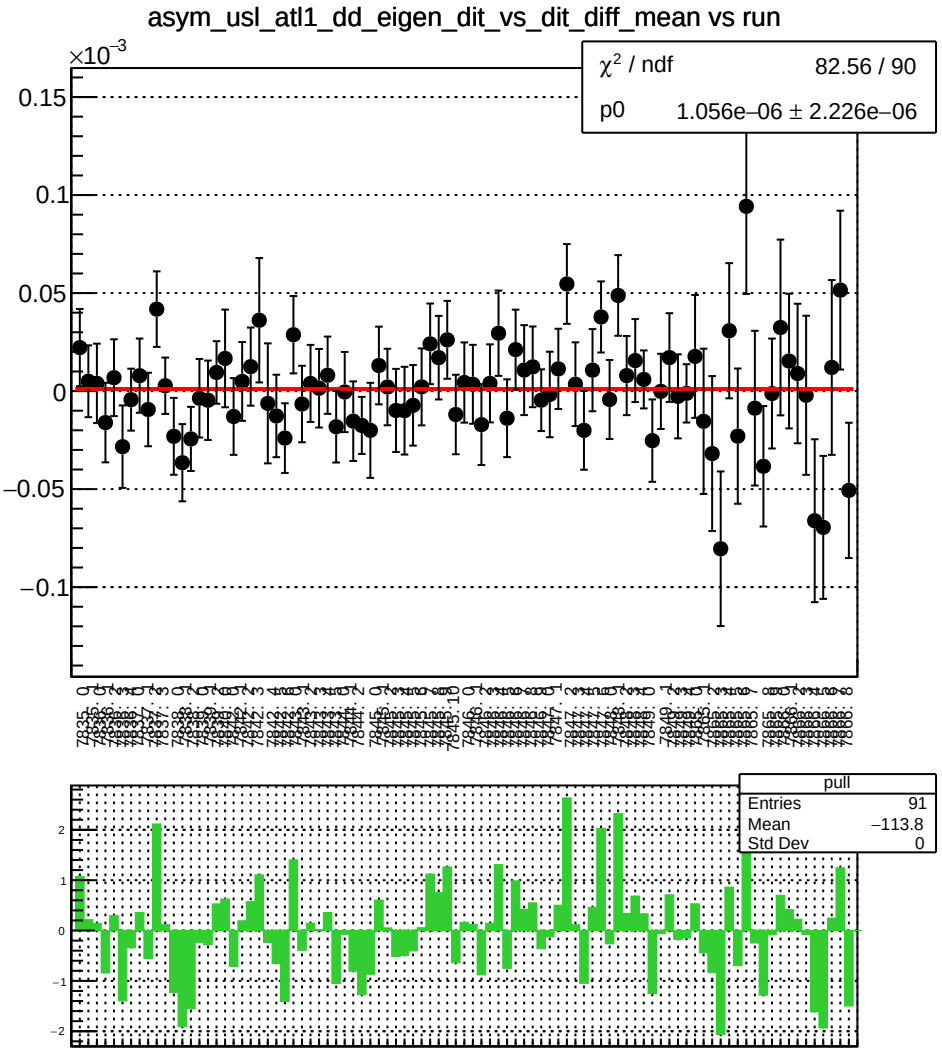

pull1D
Entries 91
Mean −0.05452
Std Dev 0.9836

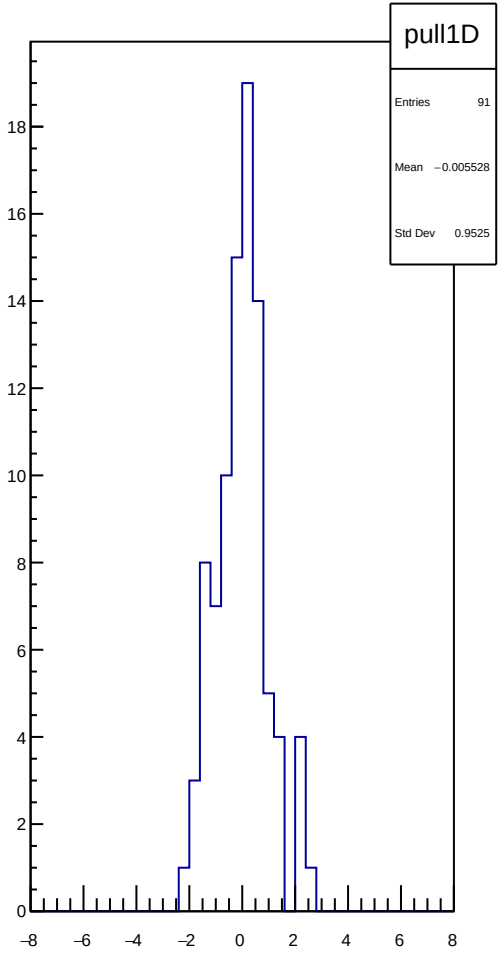

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.35e+05 / 90
p0 35.59 ± 0.02987
220
200
180
160
140
120
100
80
60
40
20

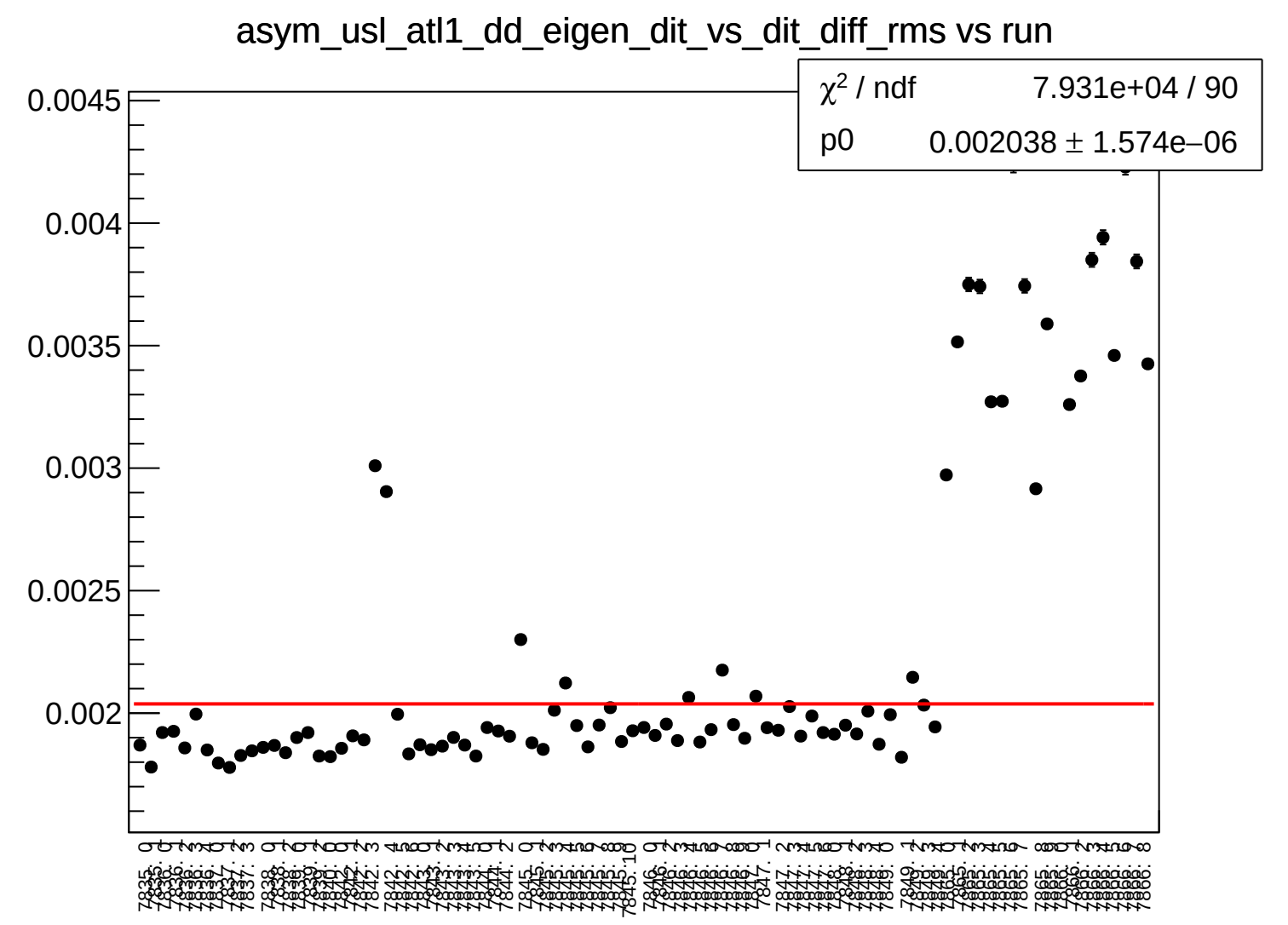

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.31 / 90
p0 −0.04404 ± 0.04224
pull
Entries 91
Mean 200.4
Std Dev 0

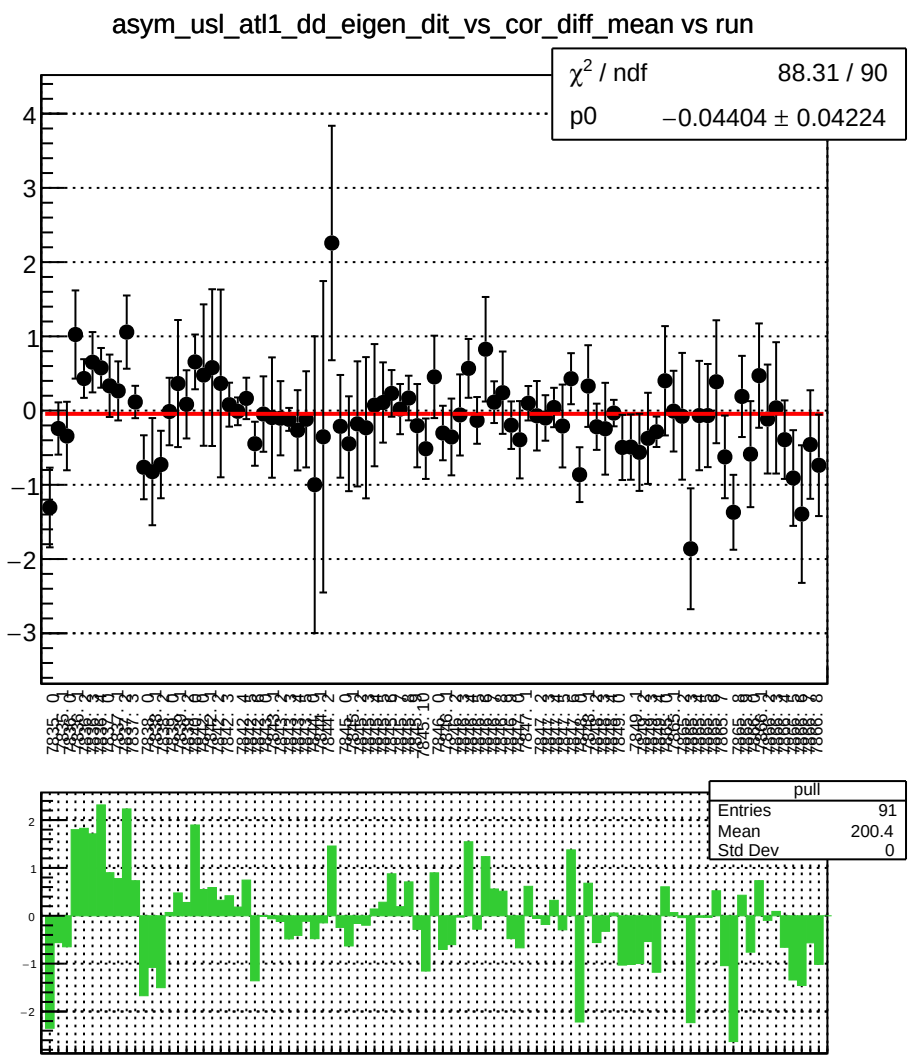

pull1D
Entries 91
Mean −0.05452
Std Dev 0.9836

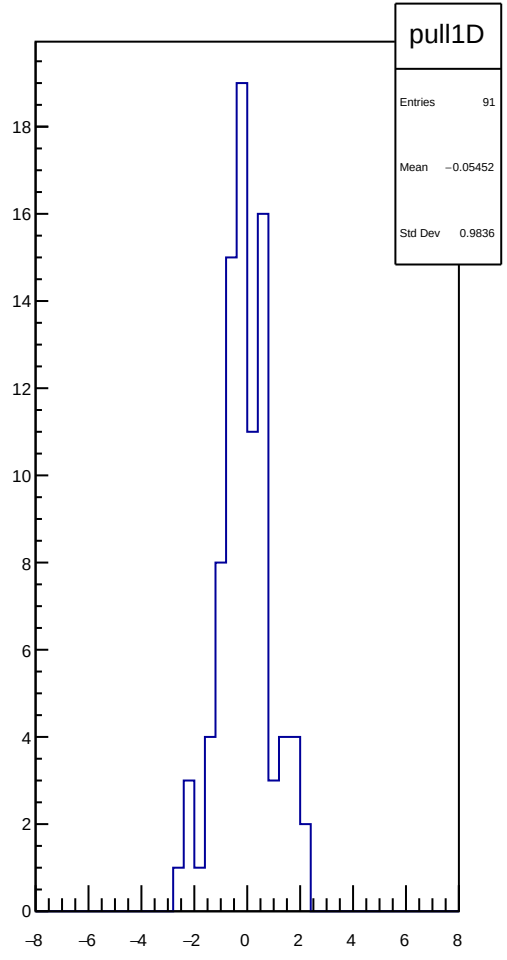

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.35e+05 / 90
p0 35.59 ± 0.02987
220
200
180
160
140
120
100
80
60
40
20

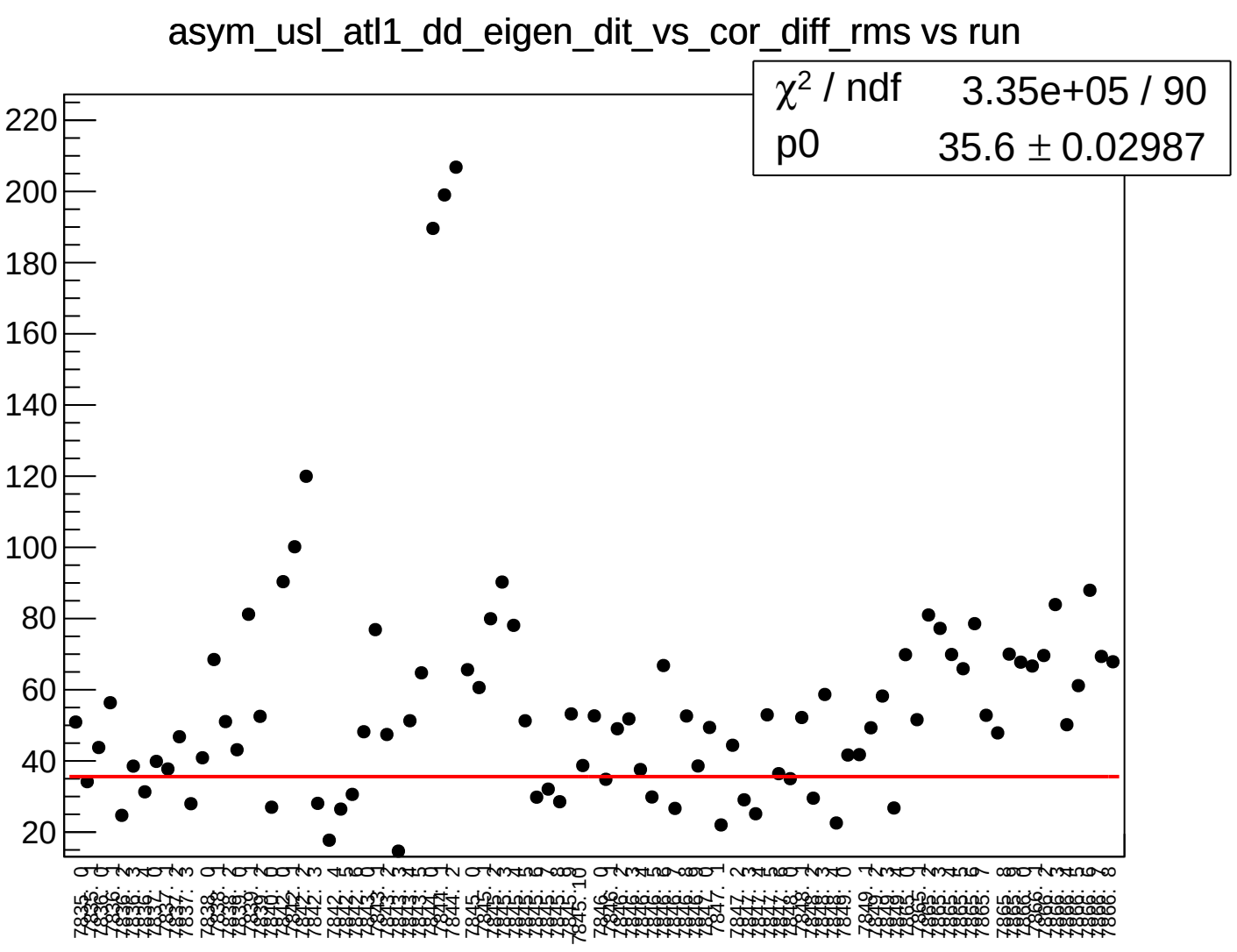

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.56 / 90
p0 1.056e−06 ± 2.226e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −113.8
Std Dev 0
2
1
0
−1
−2

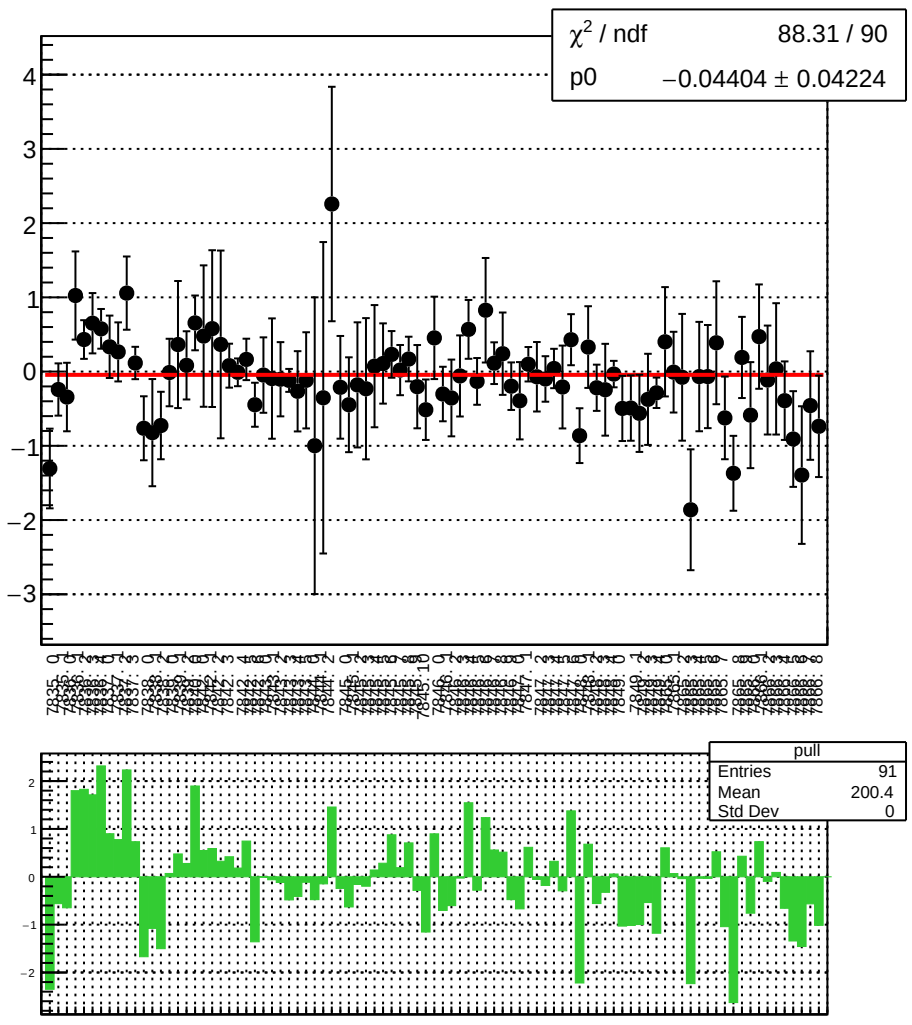

pull1D
Entries 91
Mean −0.005528
Std Dev 0.9525
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

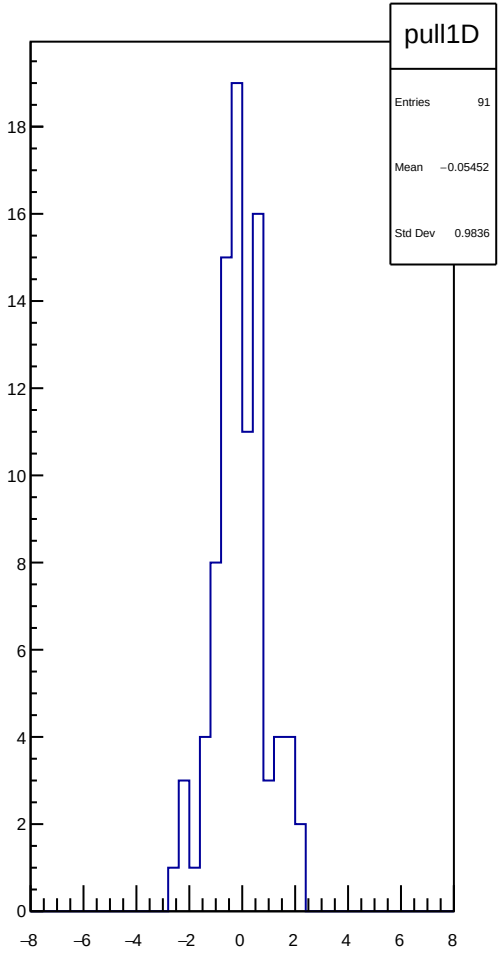

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.931e+04 / 90
p0 0.002038 ± 1.574e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

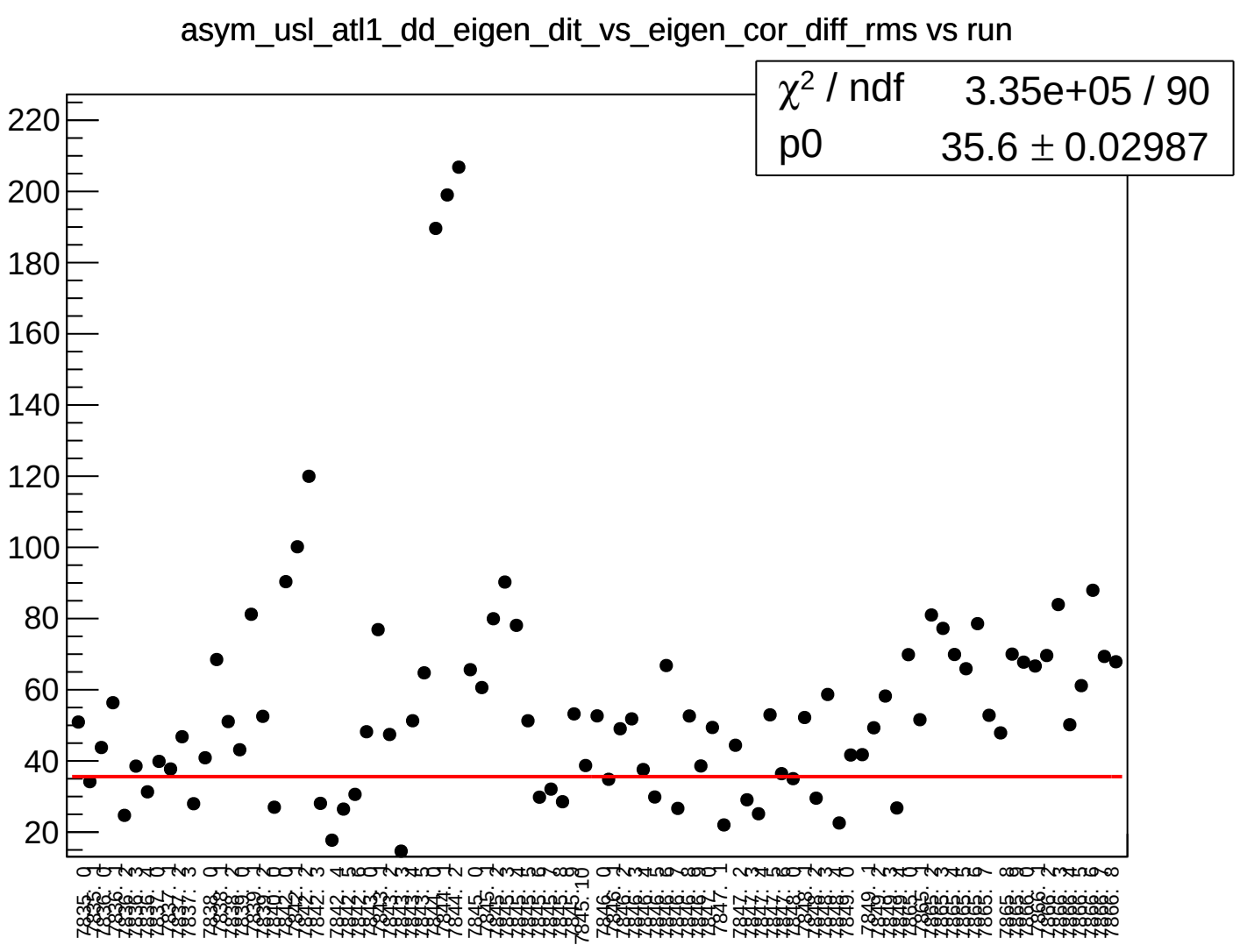

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.31 / 90
p0 −0.04404 ± 0.04224
pull
Entries 91
Mean 200.4
Std Dev 0

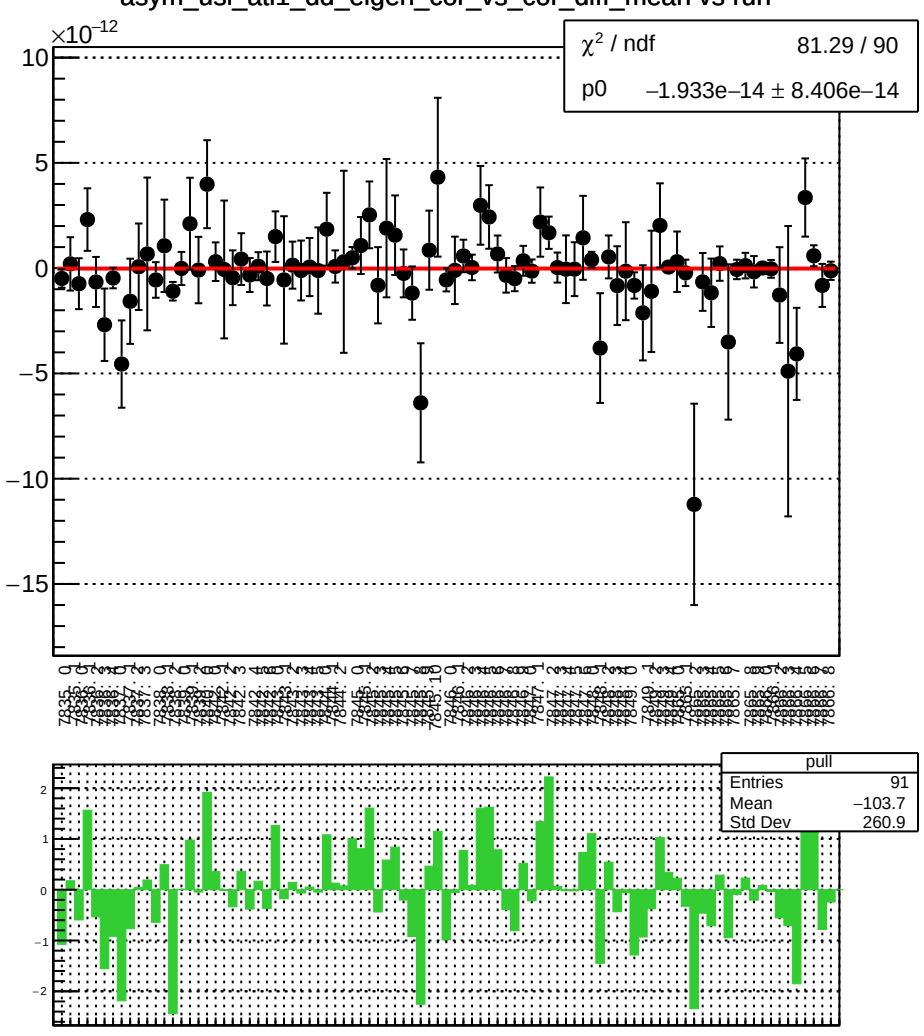

pull1D
Entries 91
Mean −0.05452
Std Dev 0.9836

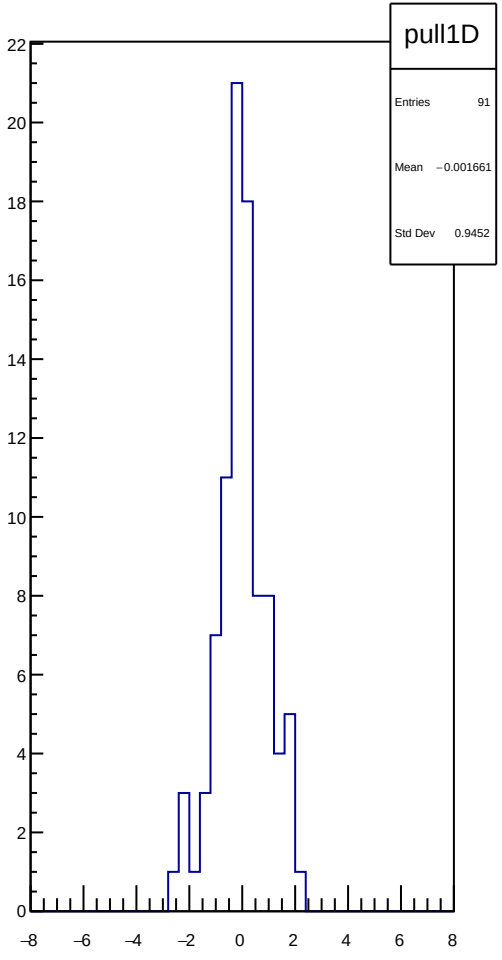

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.35e+05 / 90
p0 35.6 ± 0.02987
220
200
180
160
140
120
100
80
60
40
20

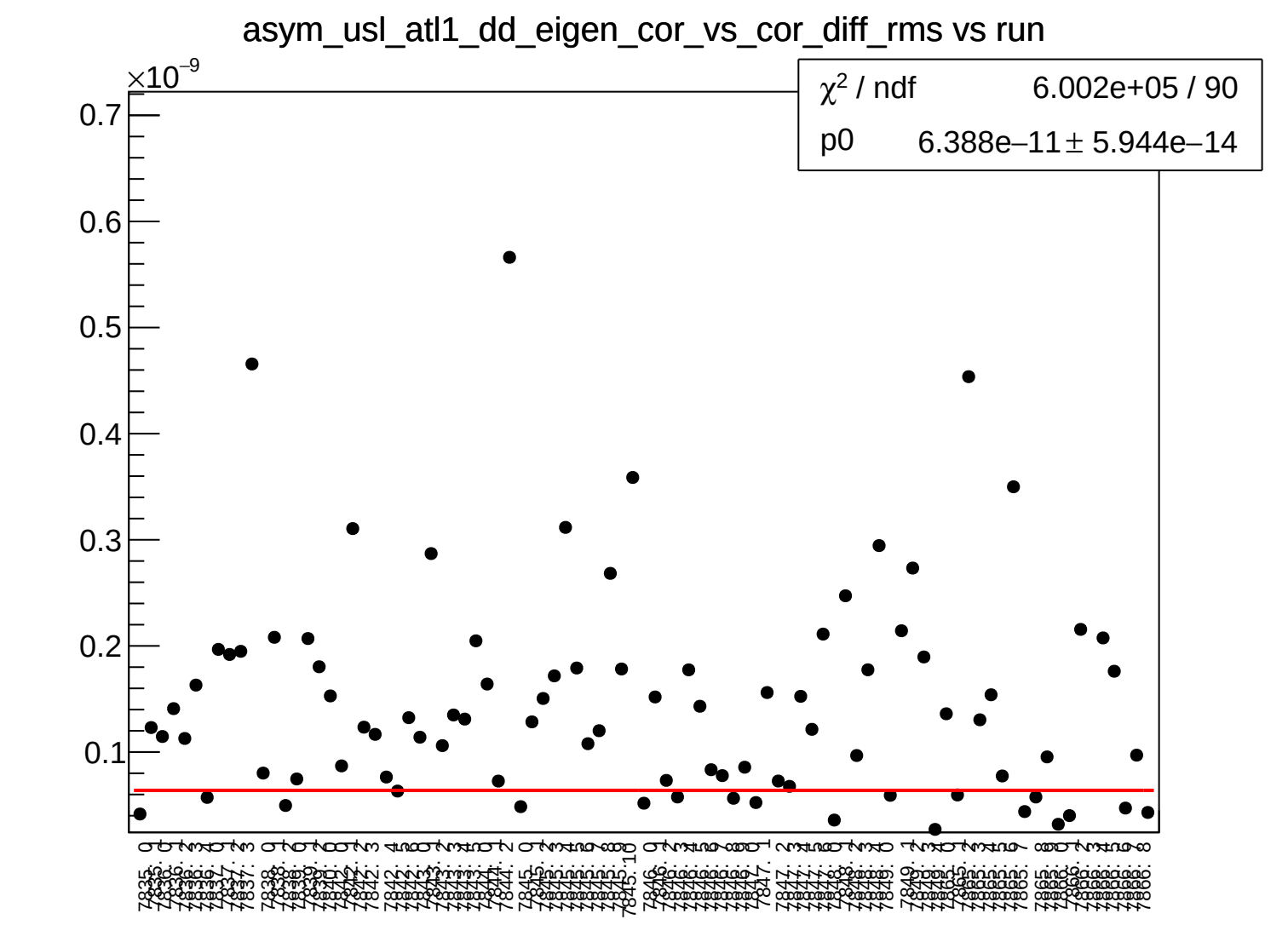

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.31 / 90
p0 −0.04404 ± 0.04224
pull
Entries 91
Mean 200.4
Std Dev 0

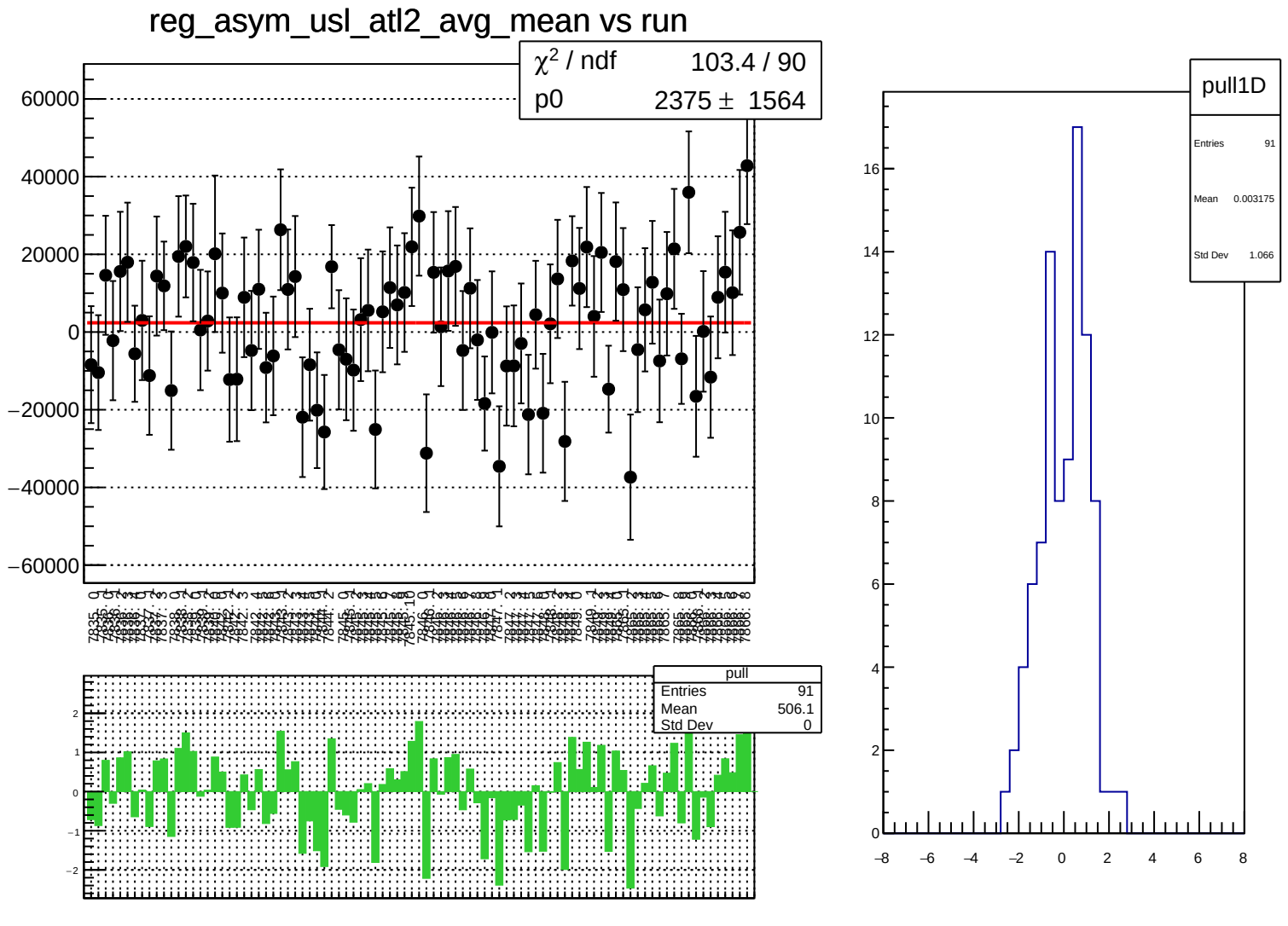

pull1D
Entries 91
Mean −0.05452
Std Dev 0.9836

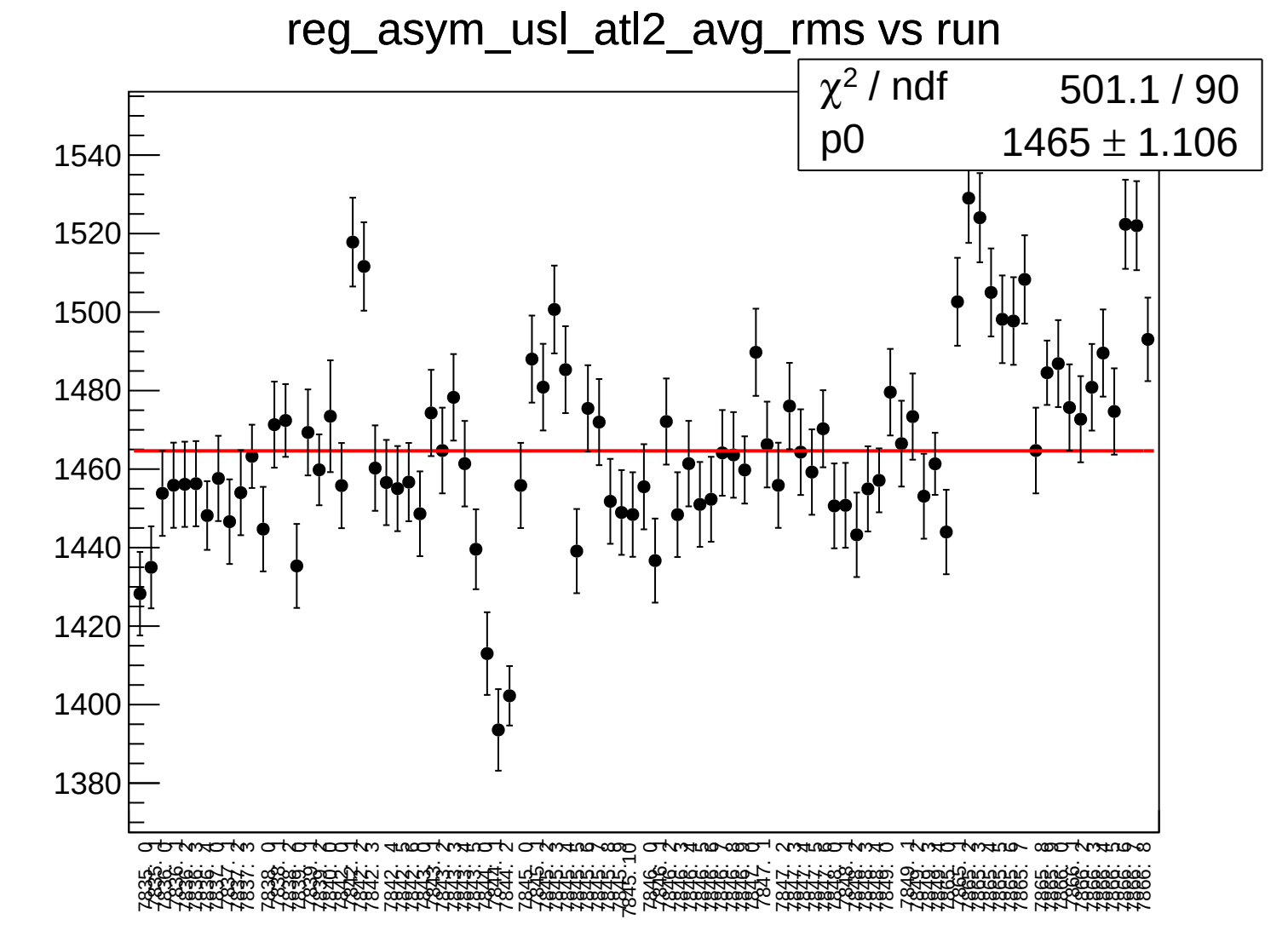

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.35e+05 / 90
p0 35.6 ± 0.02987
220
200
180
160
140
120
100
80
60
40
20

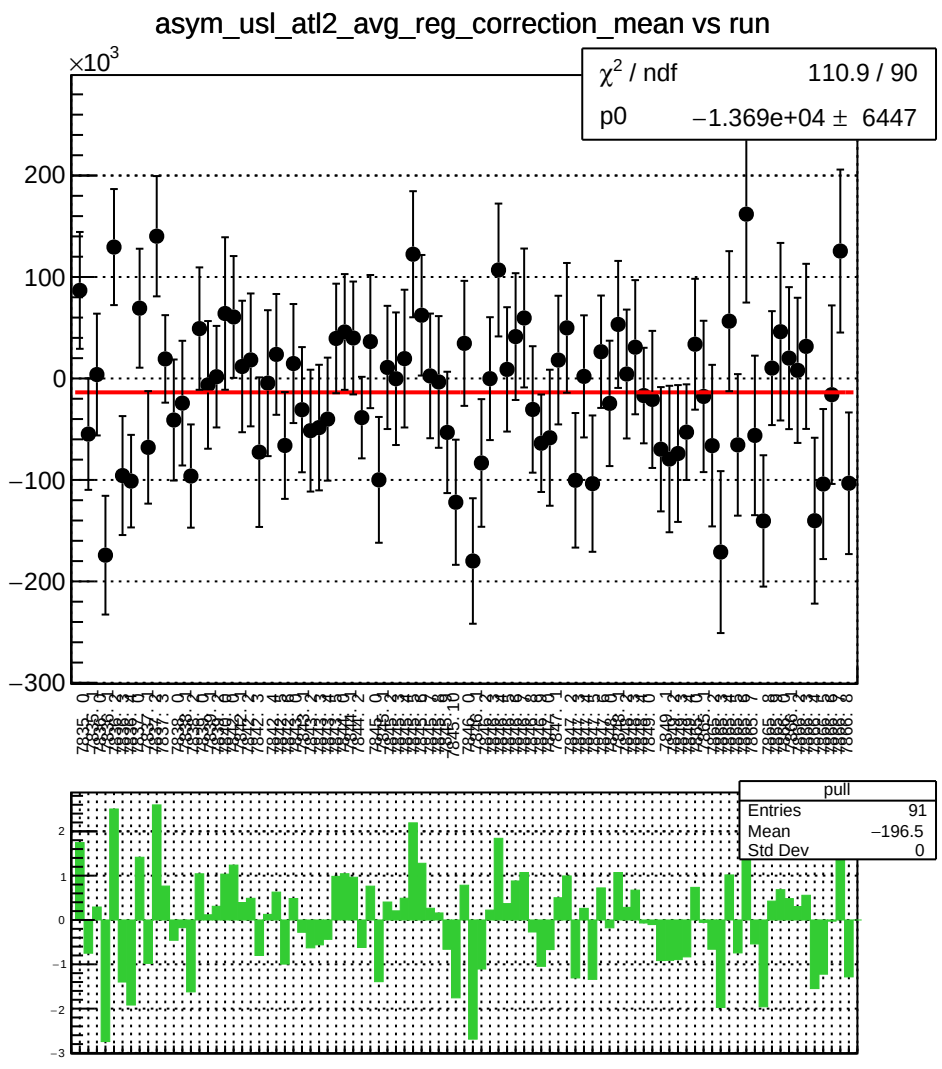

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.29 / 90
p0 −1.933e−14 ± 8.406e−14
pull
Entries 91
Mean −103.7
Std Dev 260.9

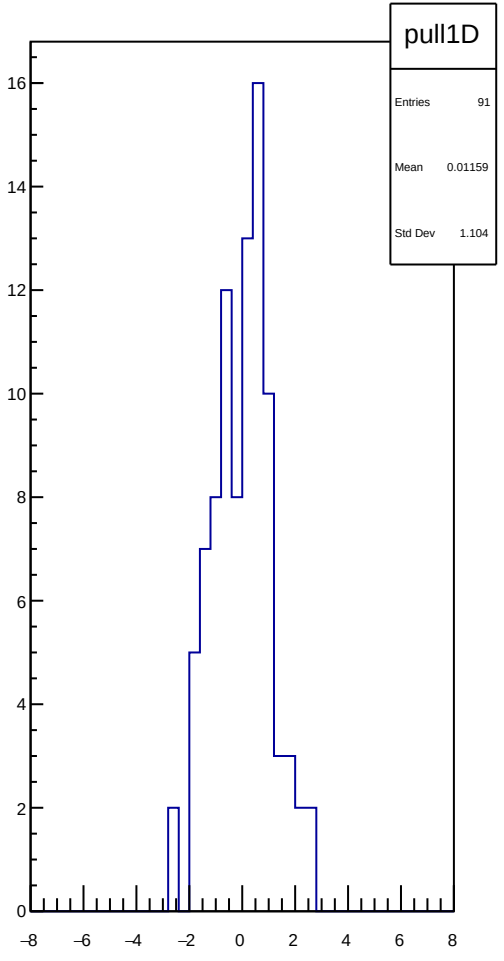

pull1D
Entries 91
Mean −0.001661
Std Dev 0.9452

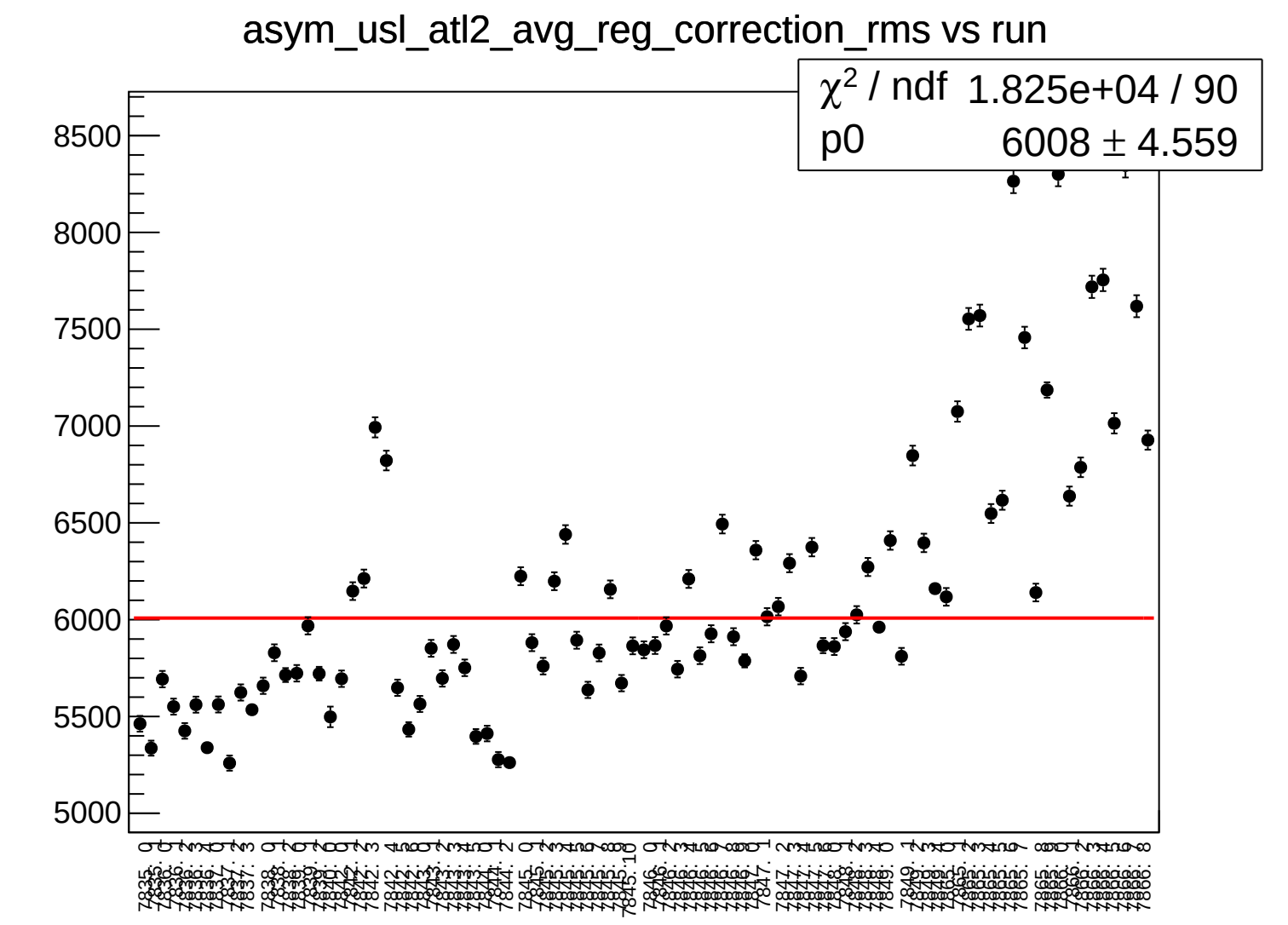

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.002e+05 / 90
p0 6.388e−11 ± 5.944e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

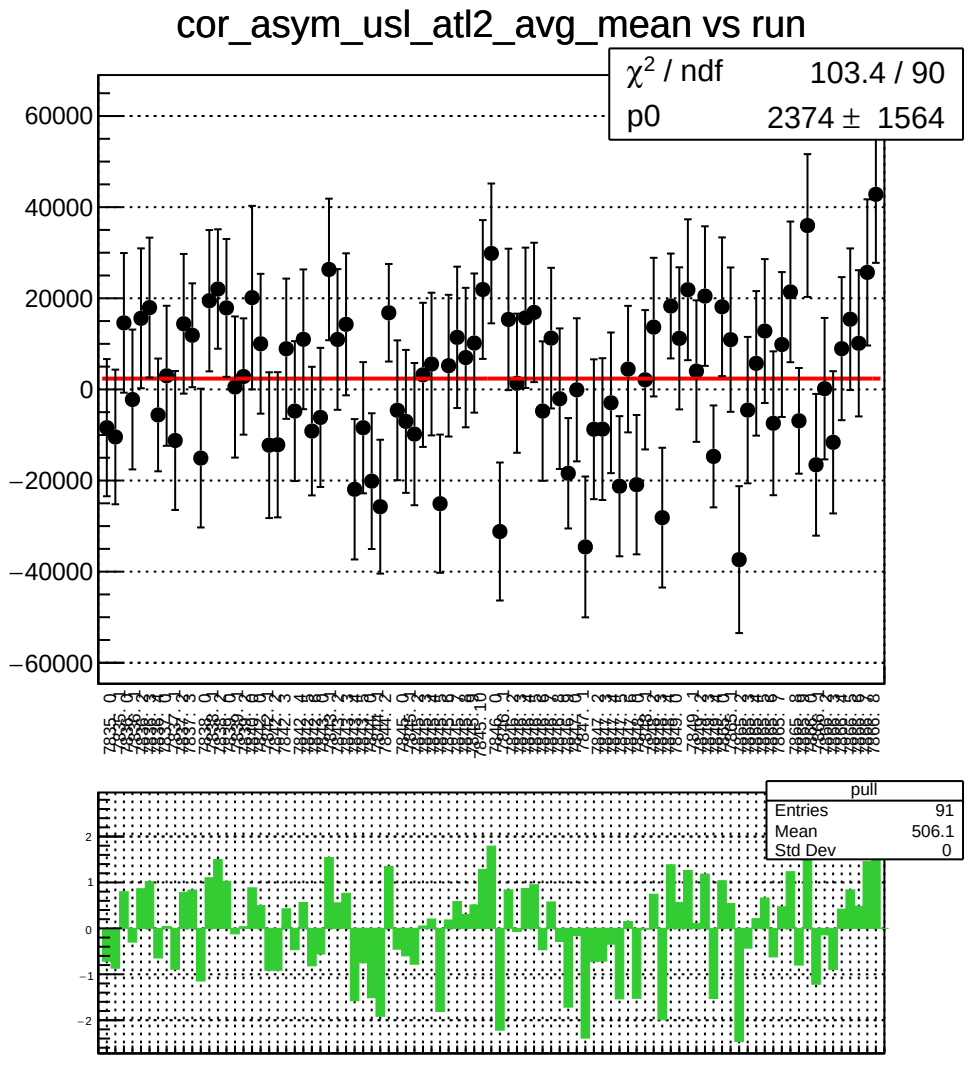

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 103.4 / 90
p0 2375 ± 1564
pull
Entries 91
Mean 506.1
Std Dev 0
pull1D
Entries 91
Mean 0.003175
Std Dev 1.066

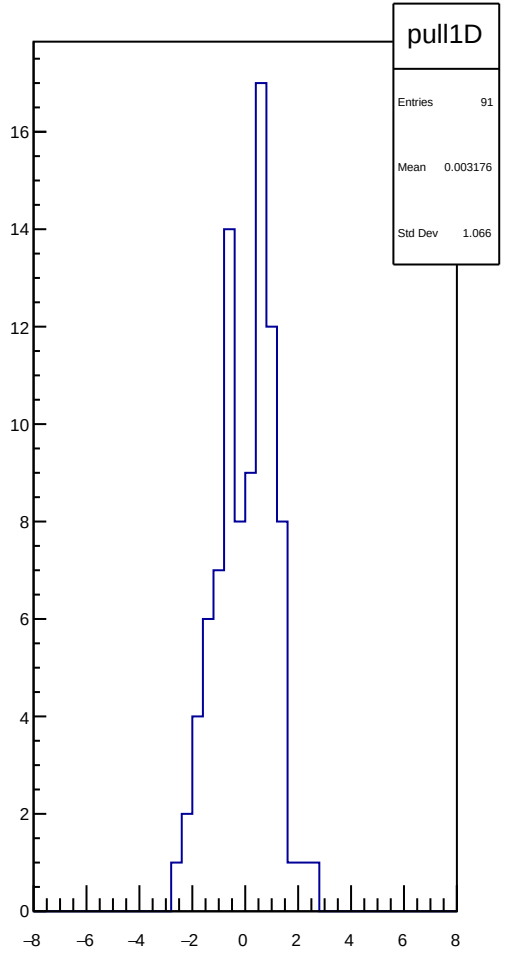

reg_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 501.1 / 90
p0 1465 ± 1.106
1540
1520
1500
1480
1460
1440
1420
1400
1380

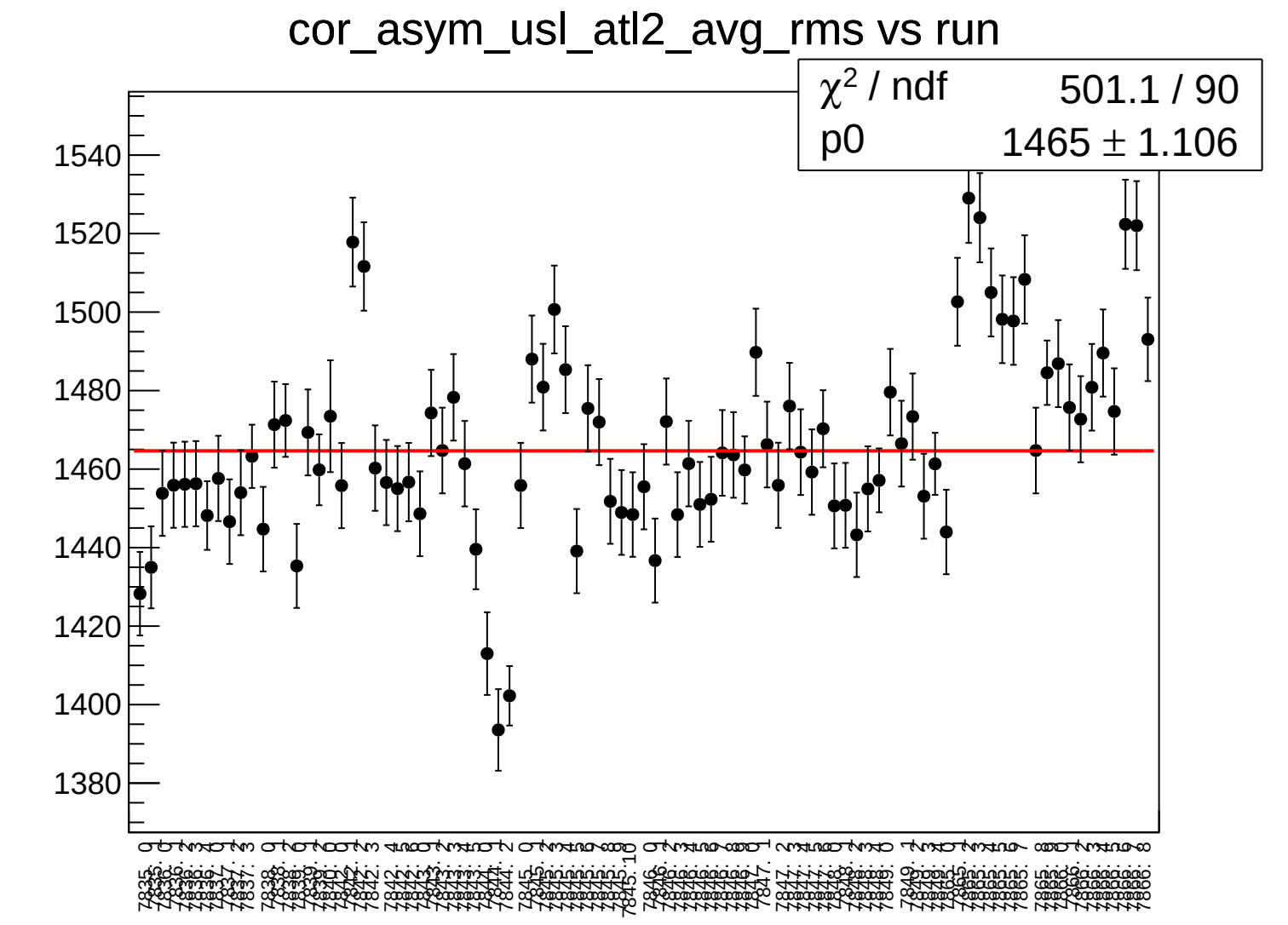

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 110.9 / 90
p0 −1.369e+04 ± 6447
pull
Entries 91
Mean −196.5
Std Dev 0

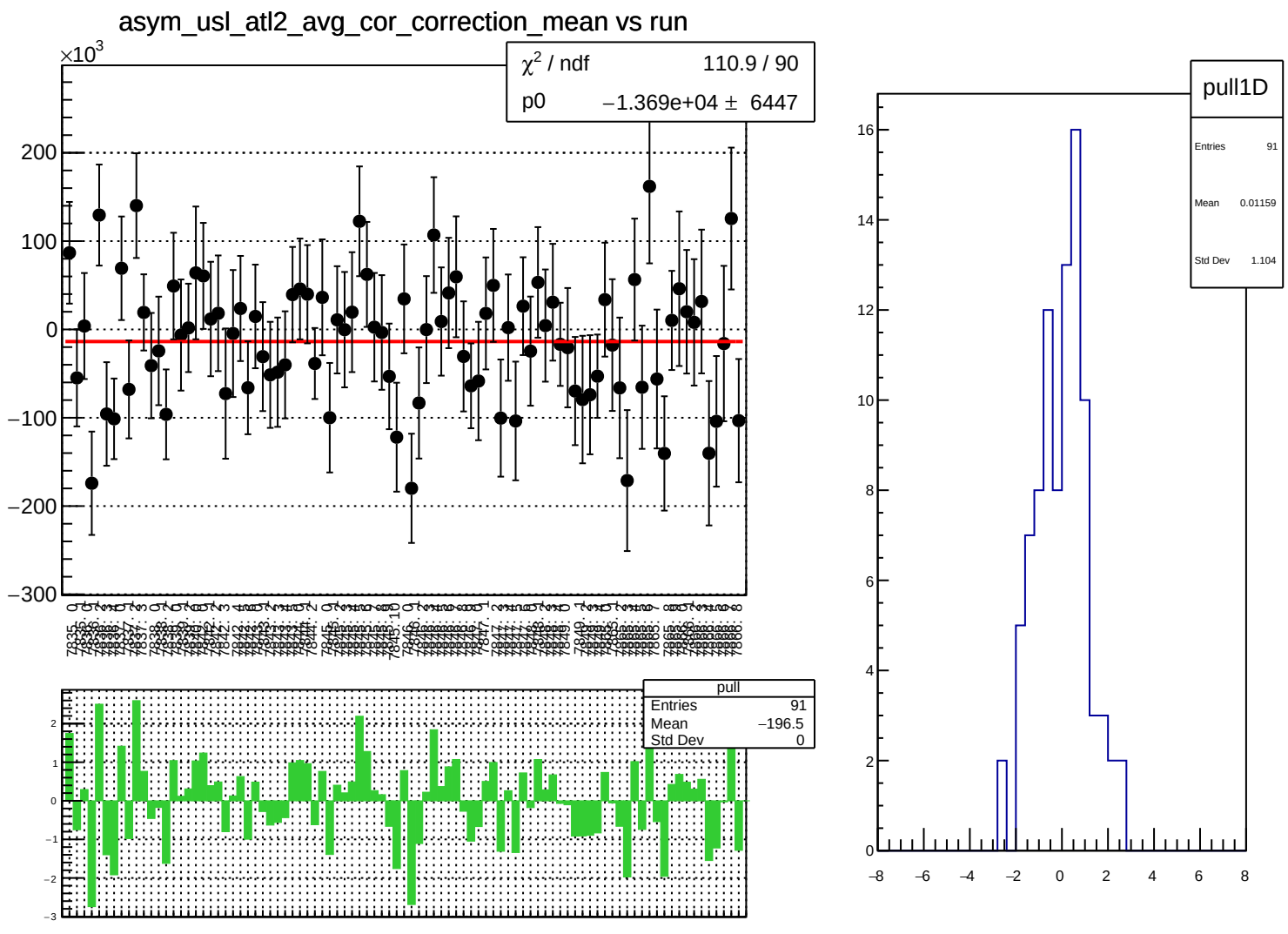

pull1D
Entries 91
Mean 0.01159
Std Dev 1.104

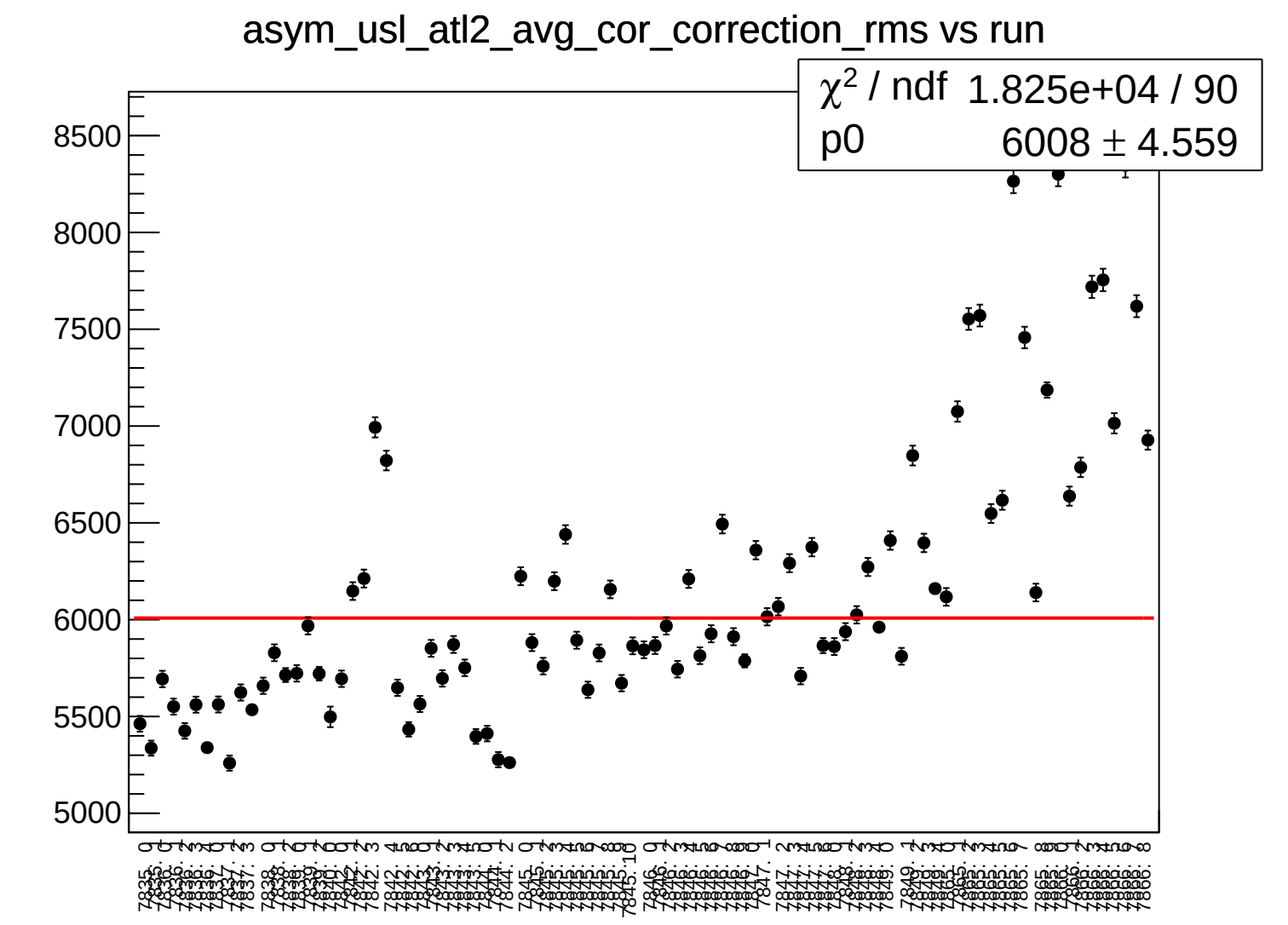

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.825e+04 / 90
p0 6008 ± 4.559
8500
8000
7500
7000
6500
6000
5500
5000

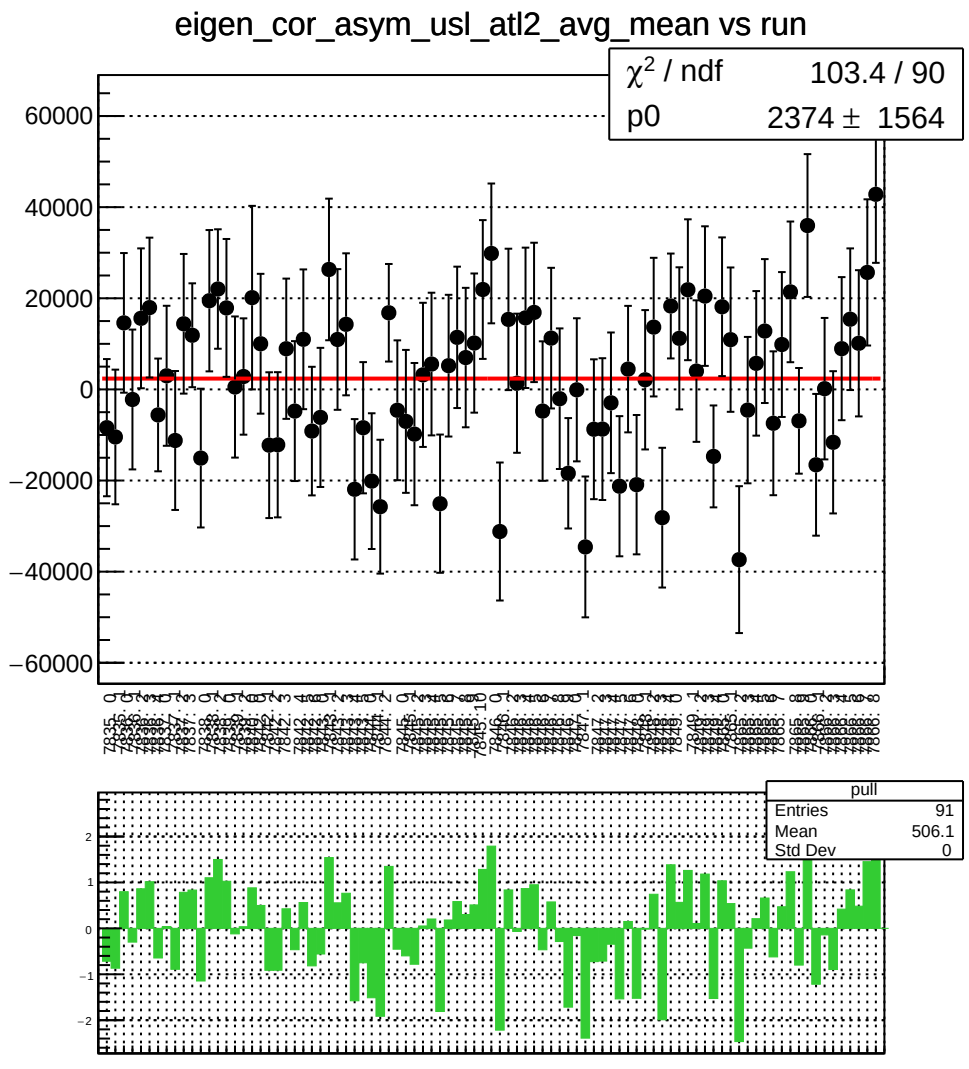

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 103.4 / 90
p0 2374 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 506.1
Std Dev 0
2
1
0
−1
−2

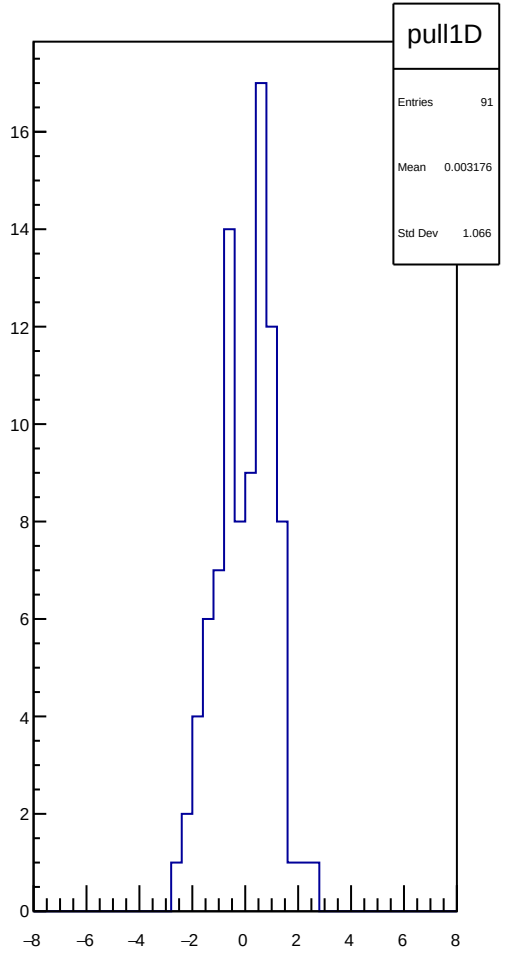

pull1D
Entries 91
Mean 0.003176
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

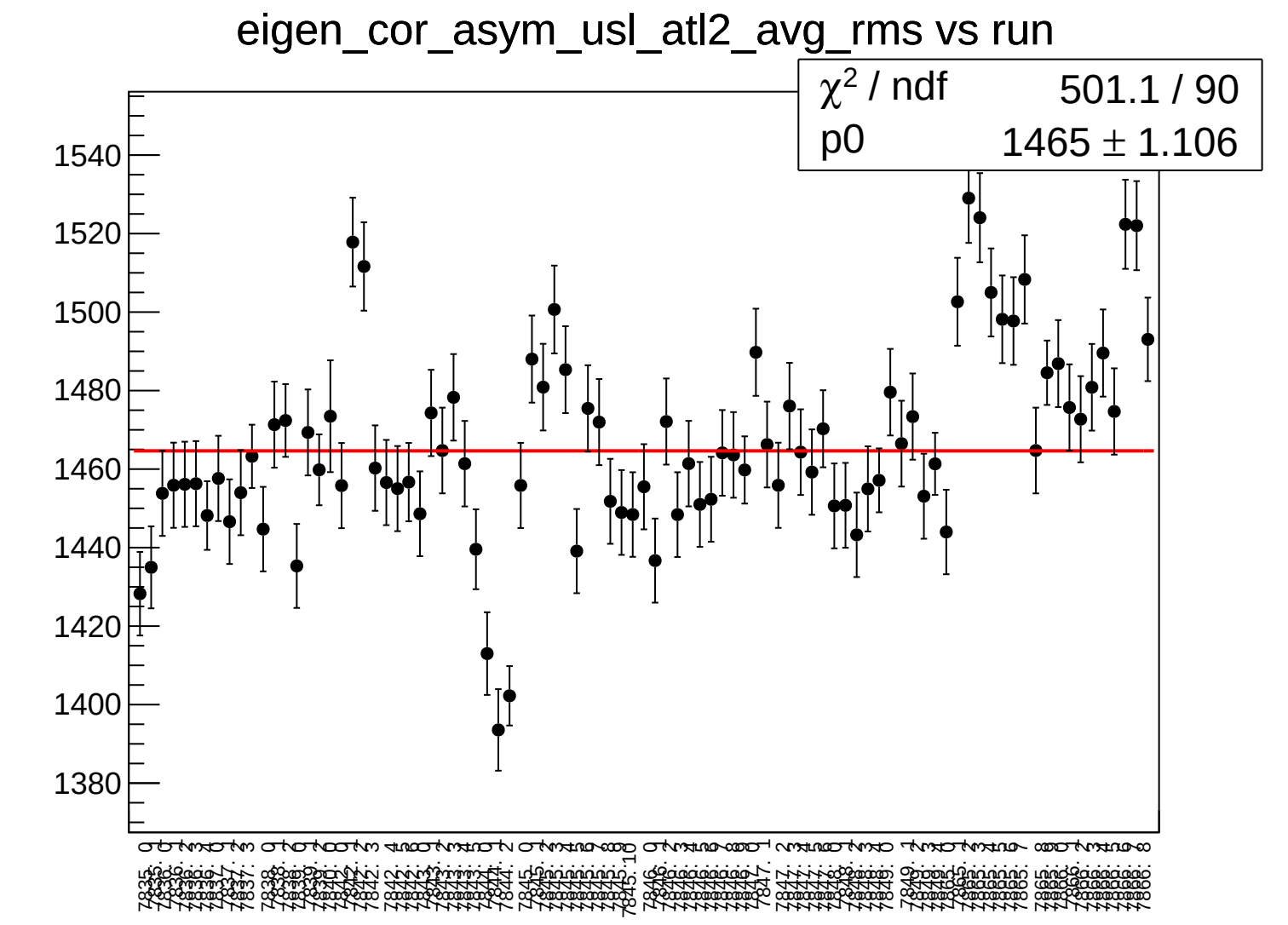

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 501.1 / 90
p0 1465 ± 1.106
1540
1520
1500
1480
1460
1440
1420
1400
1380

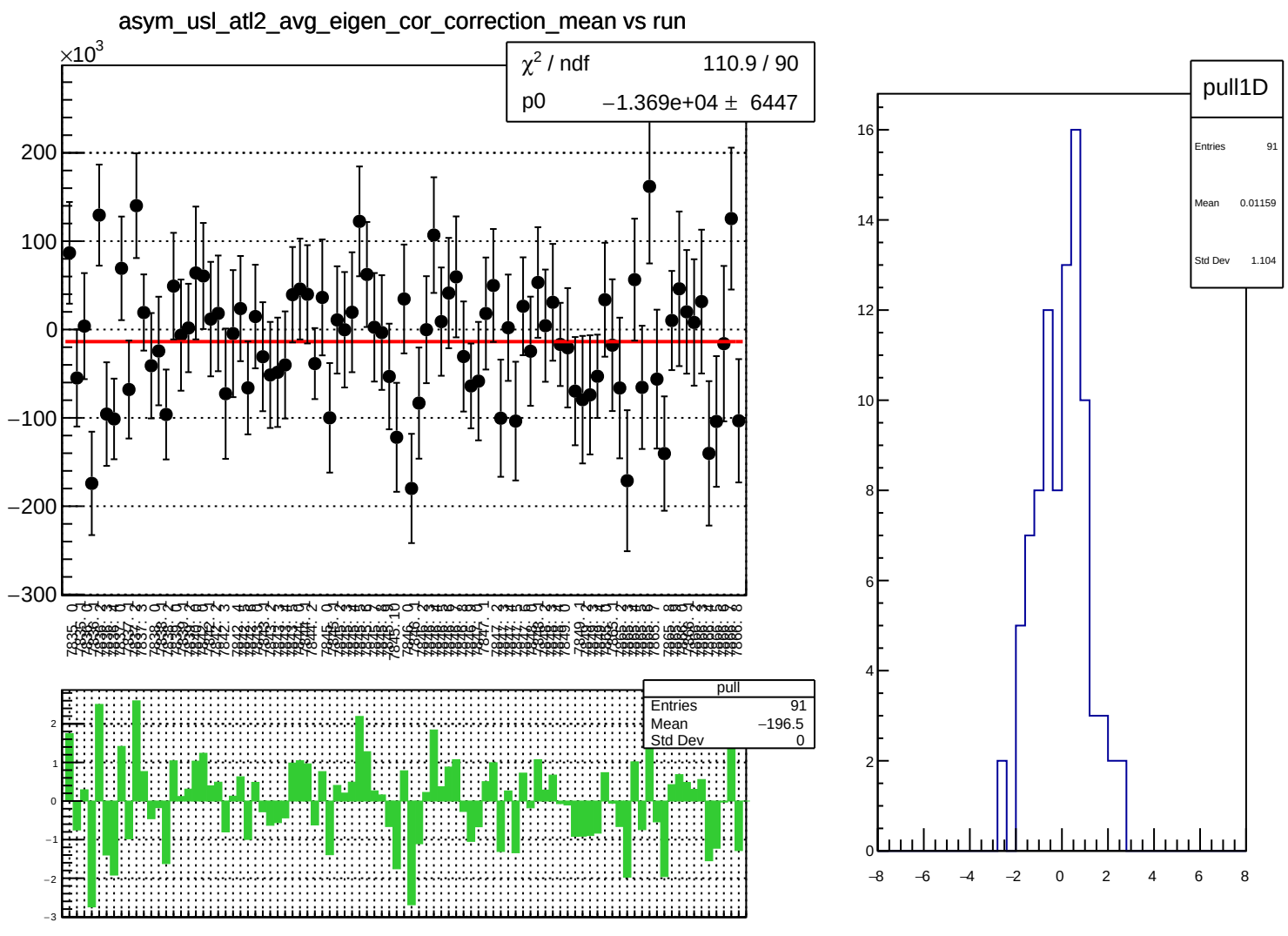

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 110.9 / 90
p0 −1.369e+04 ± 6447
200
100
0
−100
−200
−300
pull
Entries 91
Mean −196.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.01159
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

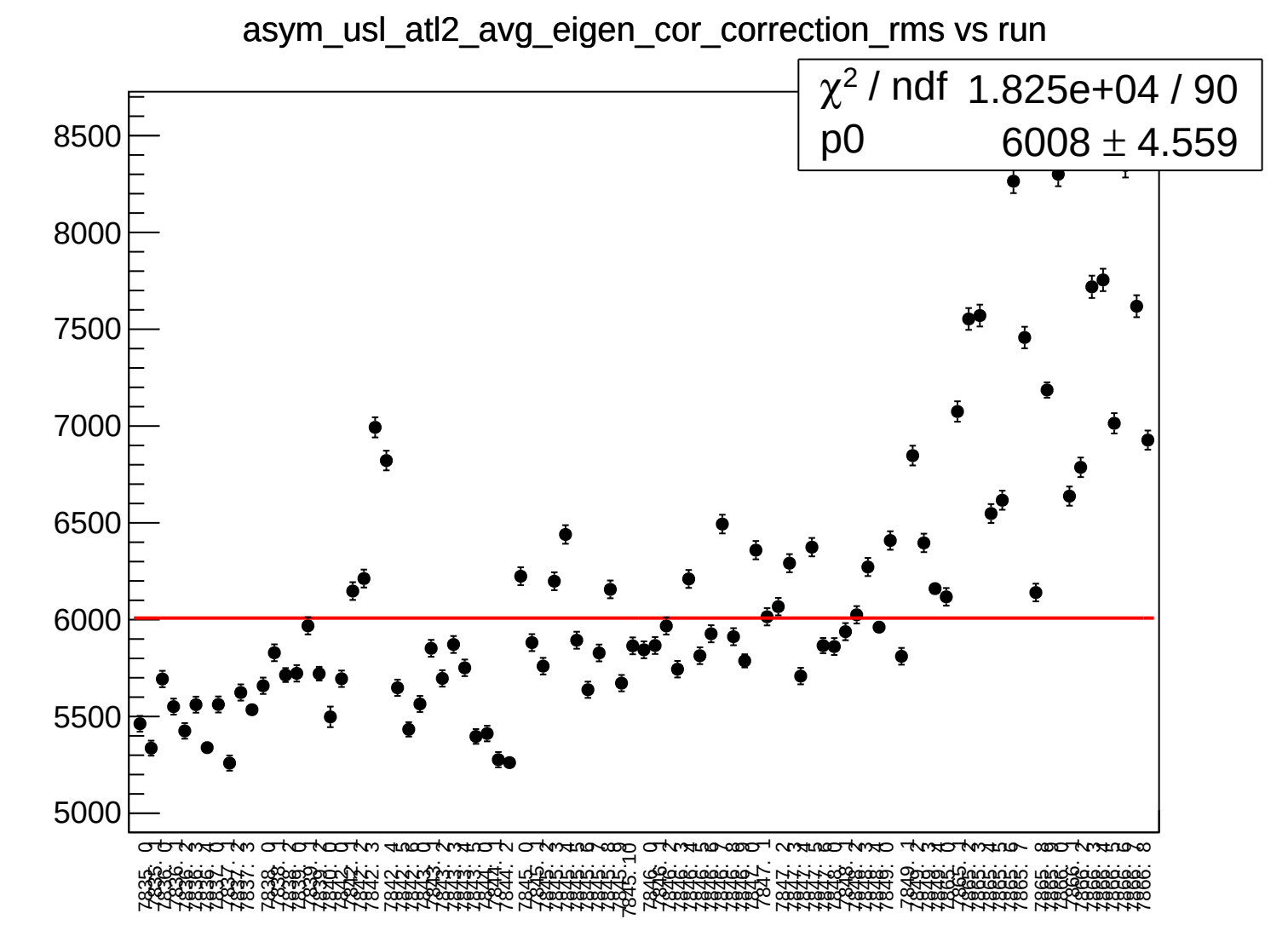

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.825e+04 / 90
p0 6008 ± 4.559
8500
8000
7500
7000
6500
6000
5500
5000

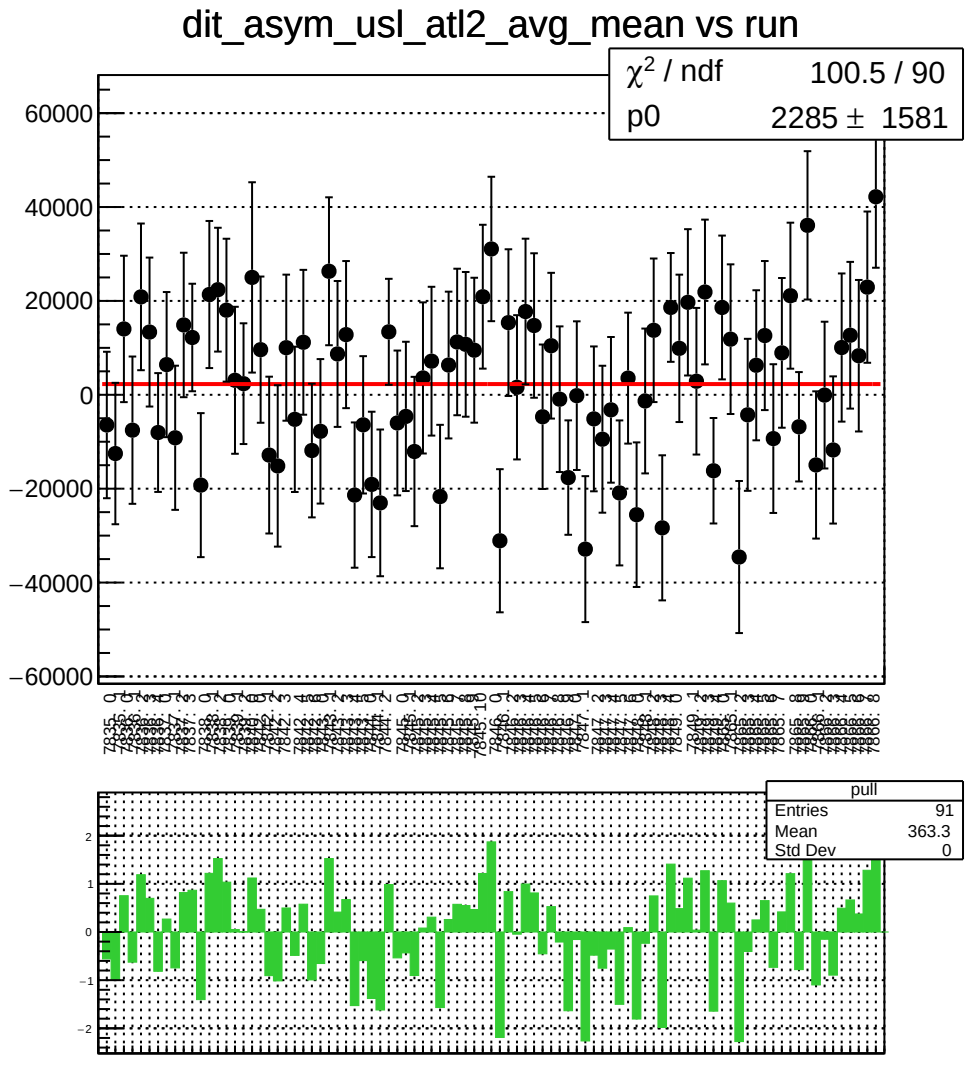

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 103.4 / 90
p0 2374 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 506.1
Std Dev 0
2
1
0
−1
−2

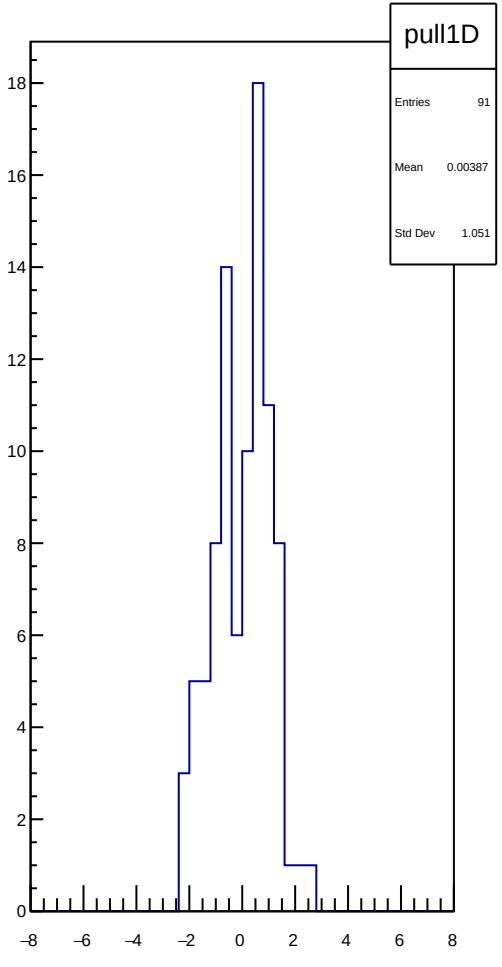

pull1D
Entries 91
Mean 0.003176
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

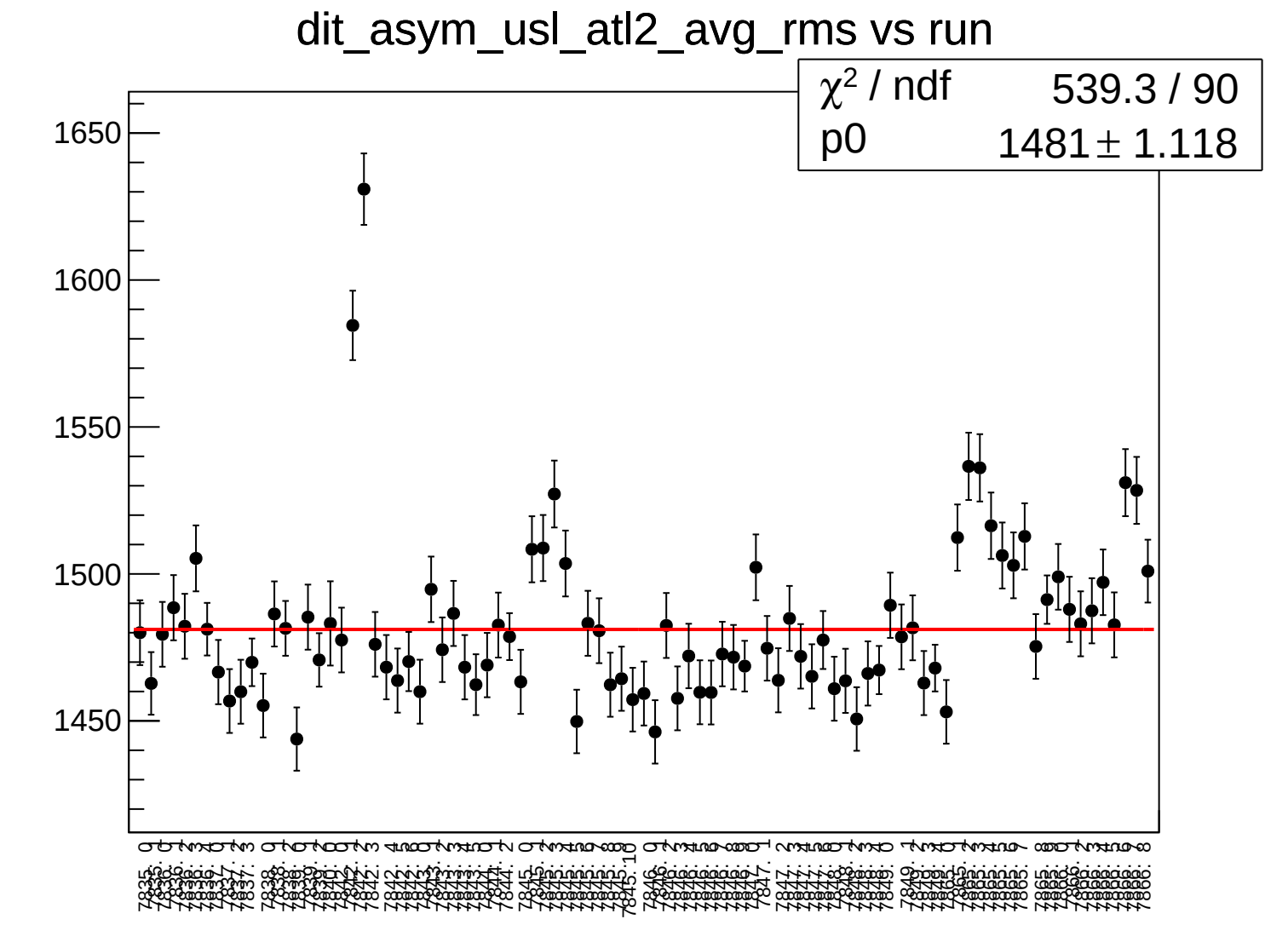

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 501.1 / 90
p0 1465 ± 1.106
1540
1520
1500
1480
1460
1440
1420
1400
1380

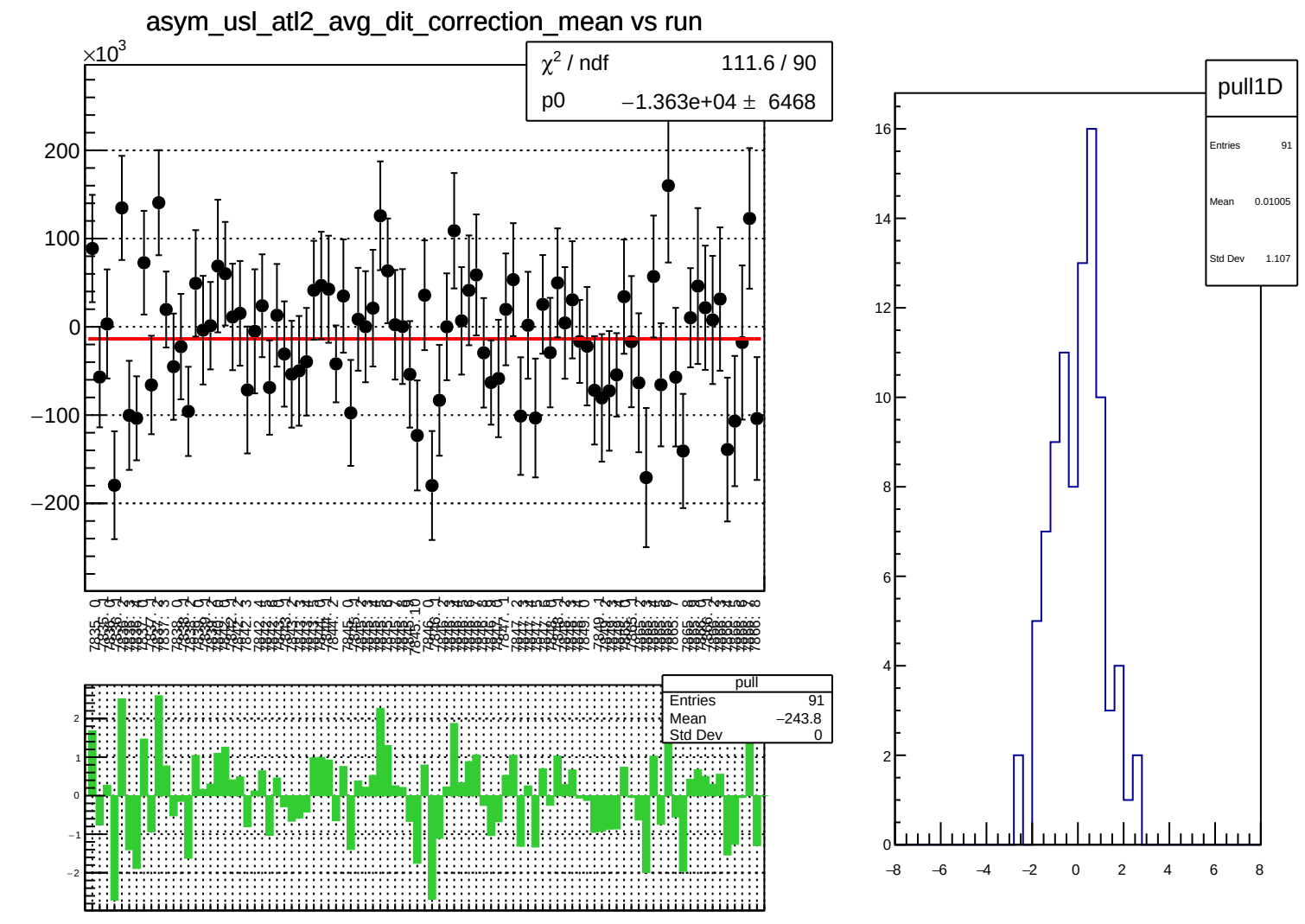

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
χ² / ndf 110.9 / 90
p0 −1.369e+04 ± 6447
×10³
pull
Entries 91
Mean −196.5
Std Dev 0
pull1D
Entries 91
Mean 0.01159
Std Dev 1.104

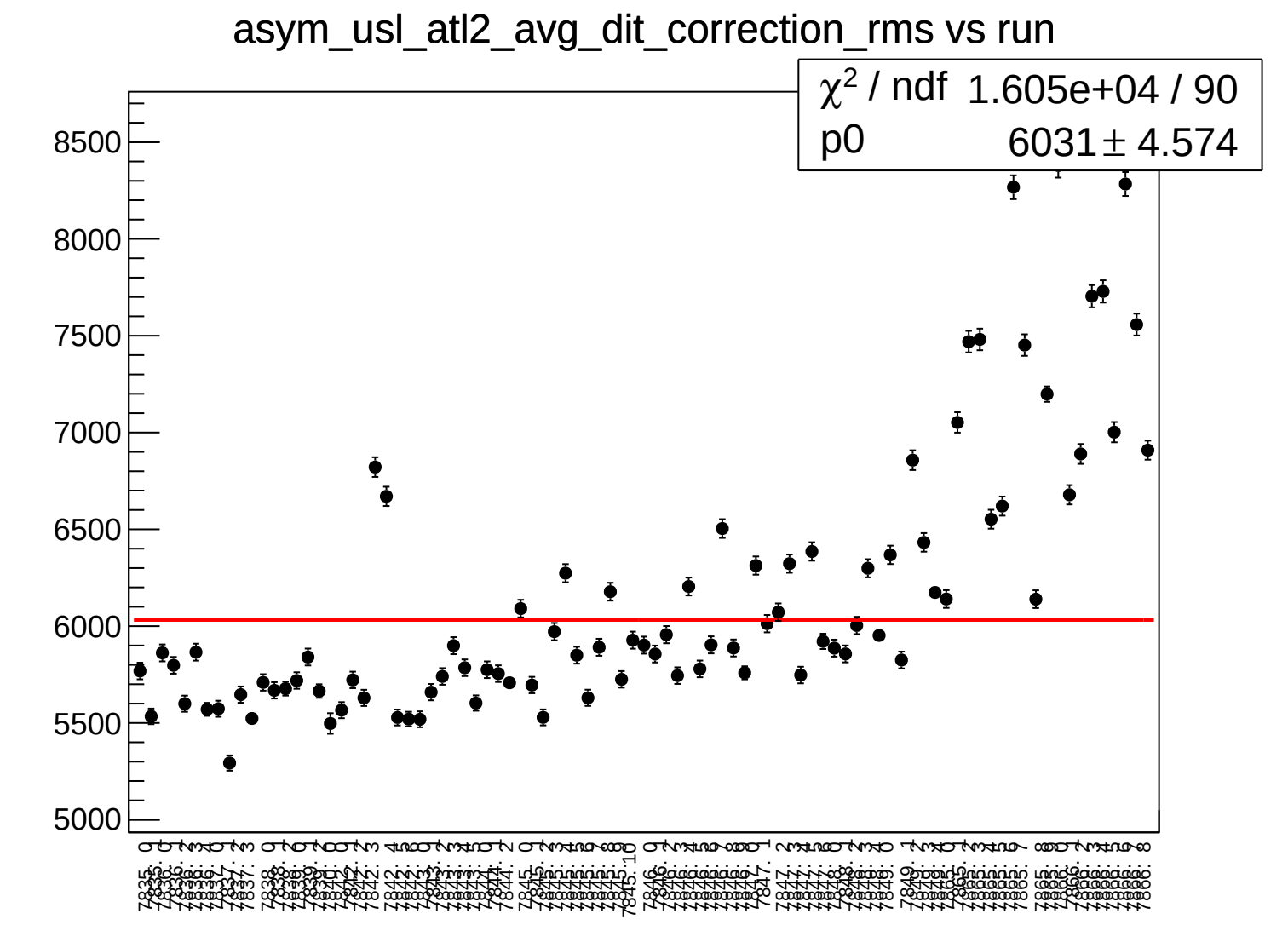

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.825e+04 / 90
p0 6008 ± 4.559
8500
8000
7500
7000
6500
6000
5500
5000

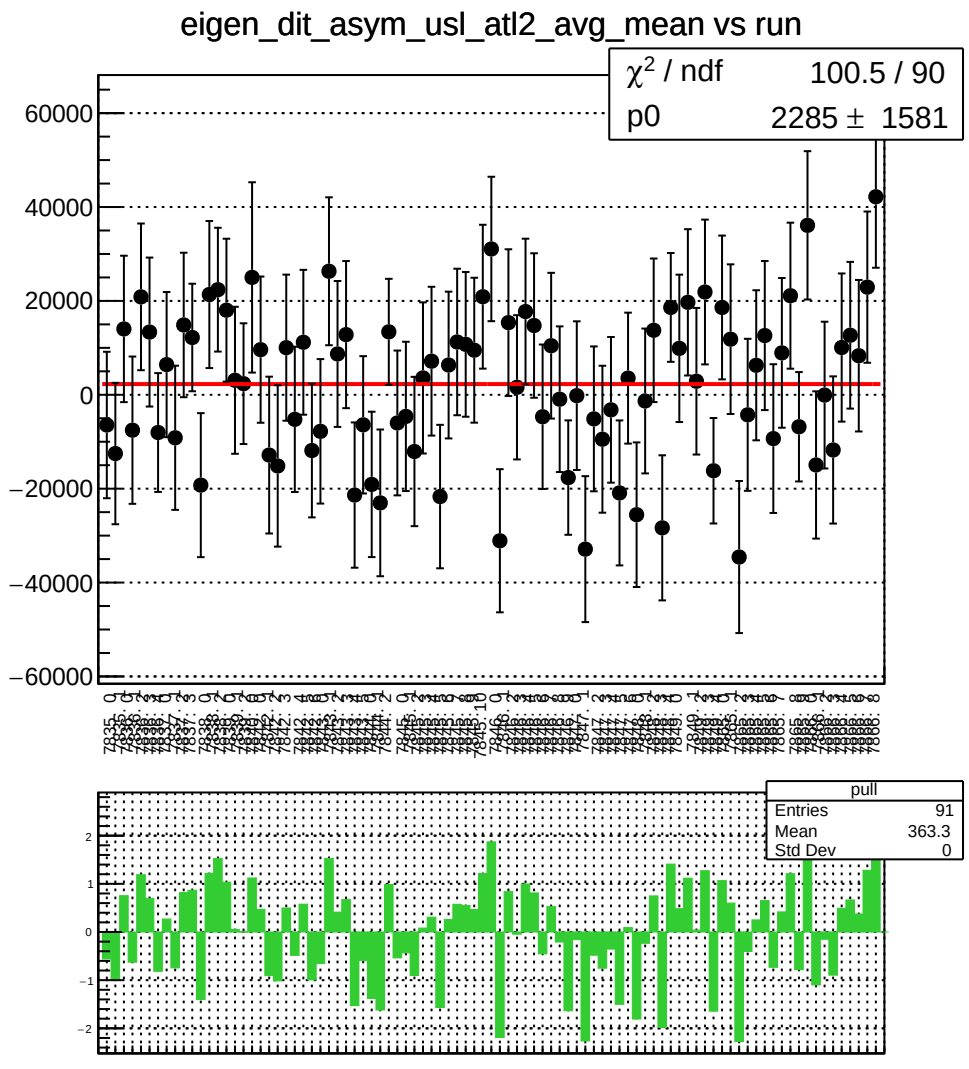

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 100.5 / 90
p0 2285 ± 1581
pull
Entries 91
Mean 363.3
Std Dev 0

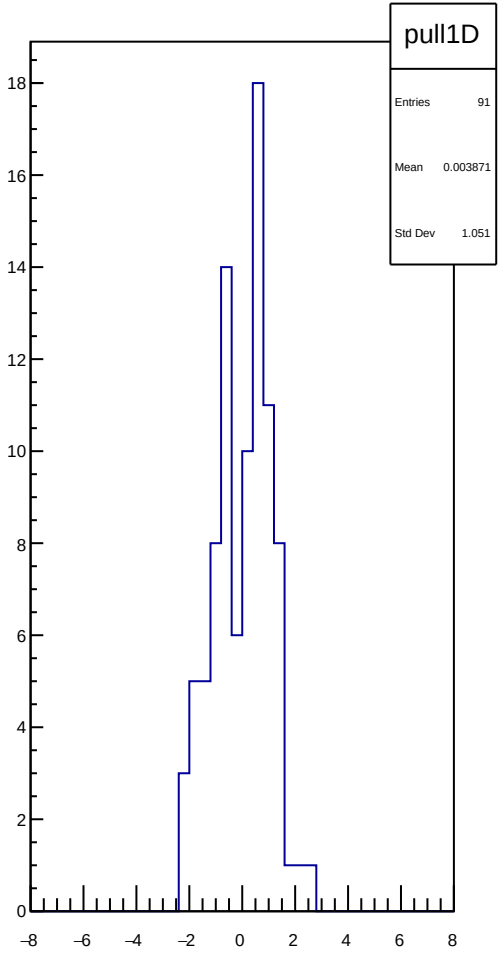

pull1D
Entries 91
Mean 0.00387
Std Dev 1.051

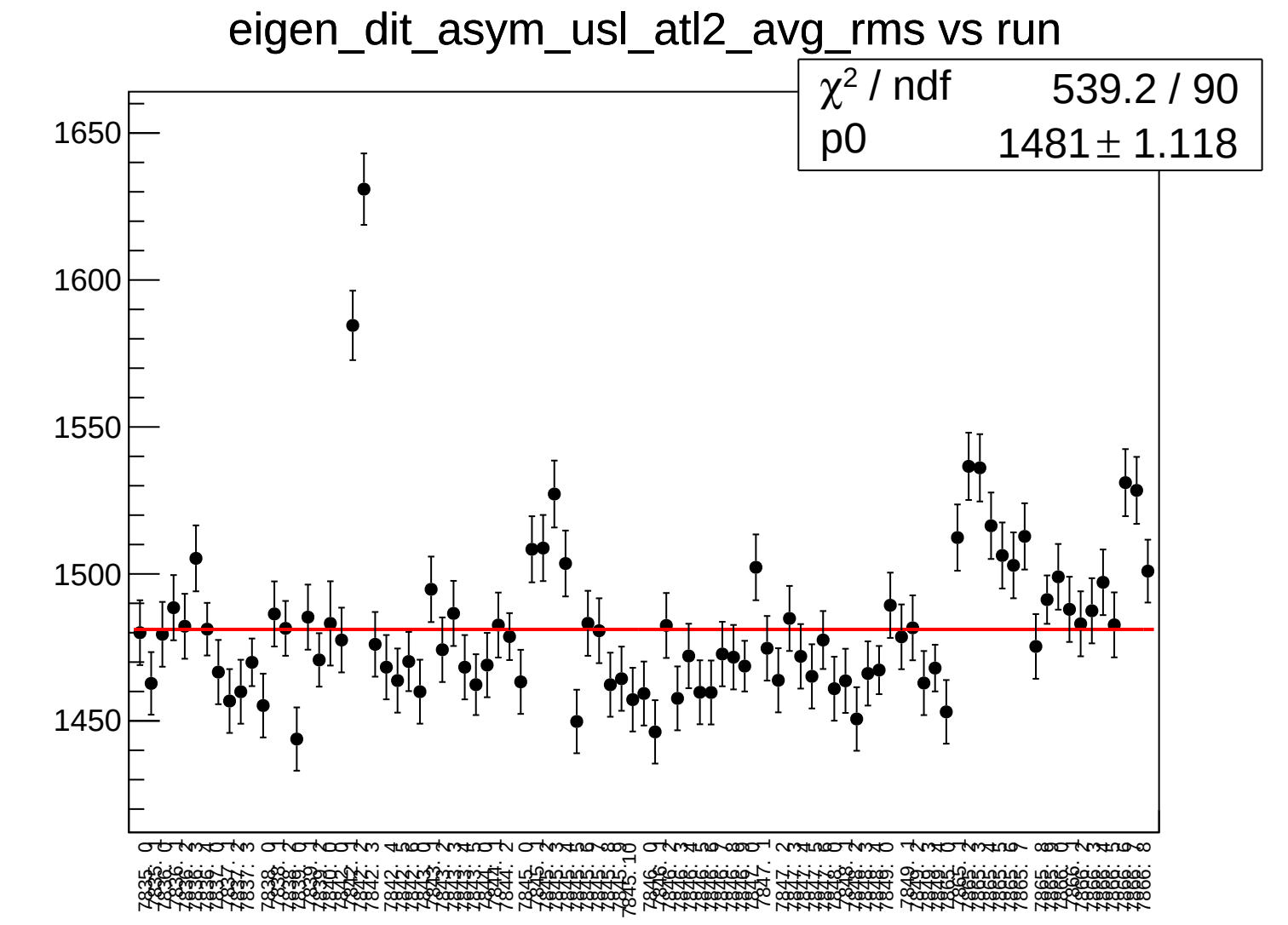

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 539.3 / 90
p0 1481 ± 1.118
1650
1600
1550
1500
1450

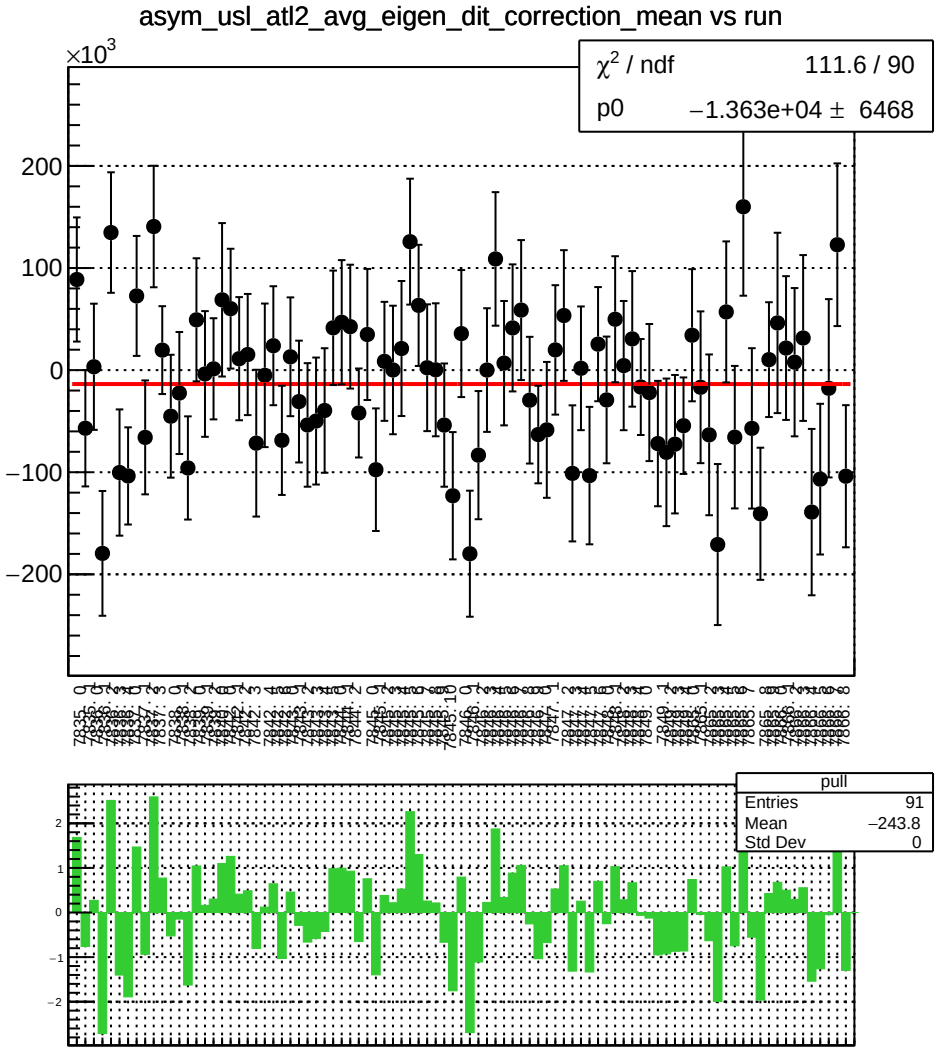

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 111.6 / 90
p0 −1.363e+04 ± 6468
200
100
0
−100
−200
pull
Entries 91
Mean −243.8
Std Dev 0
pull1D
Entries 91
Mean 0.01005
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

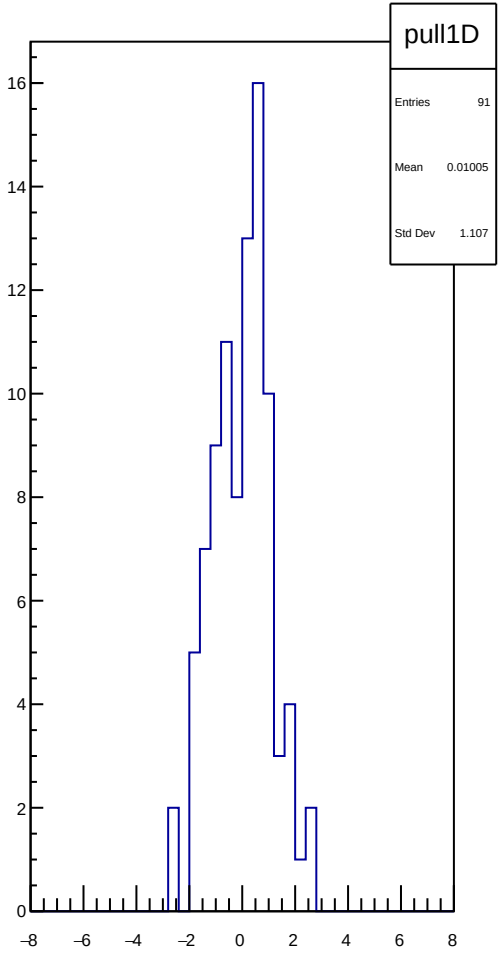

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.605e+04 / 90
p0 6031 ± 4.574
8500
8000
7500
7000
6500
6000
5500
5000

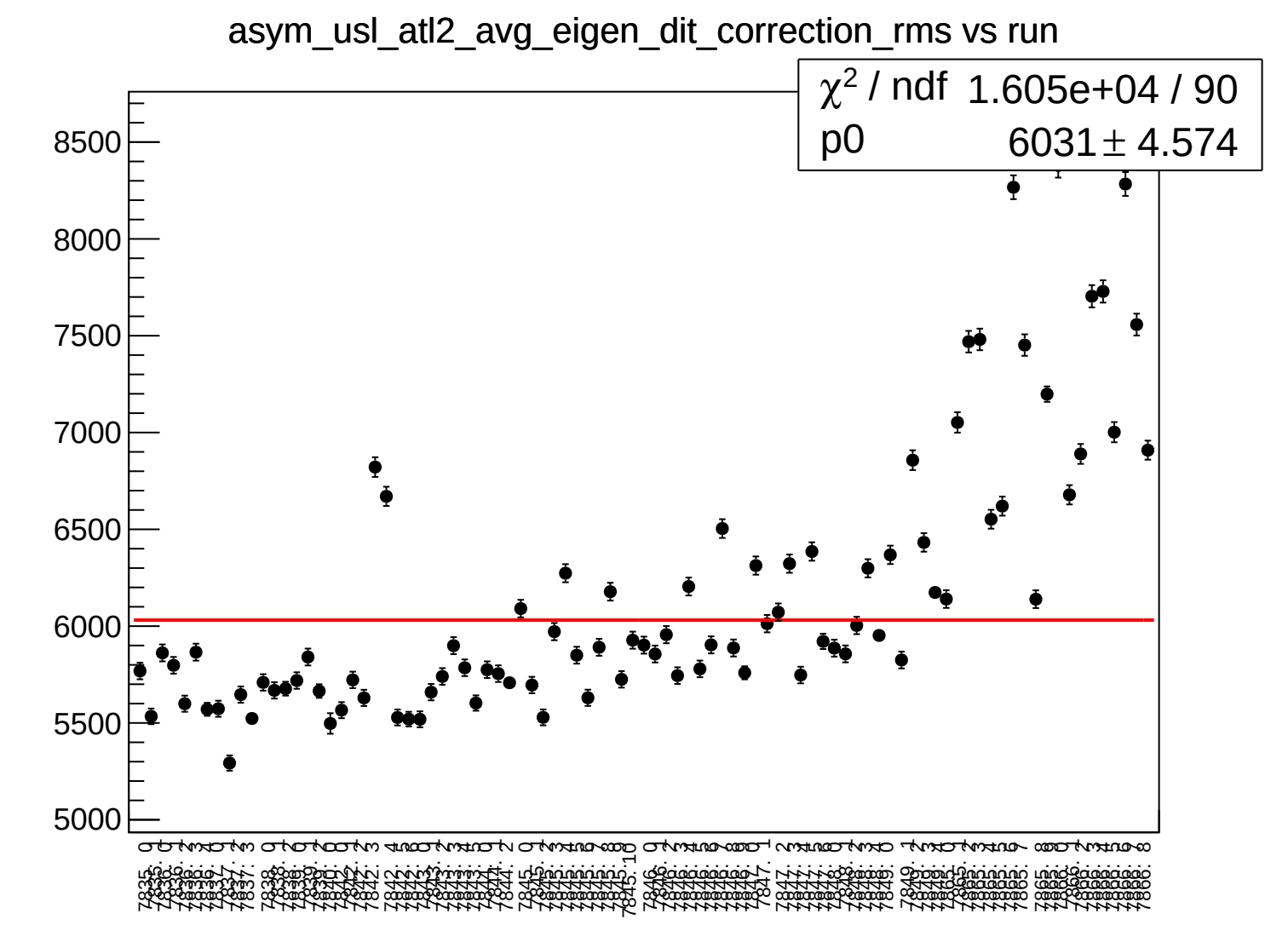

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 100.5 / 90
p0 2285 ± 1581
pull
Entries 91
Mean 363.3
Std Dev 0

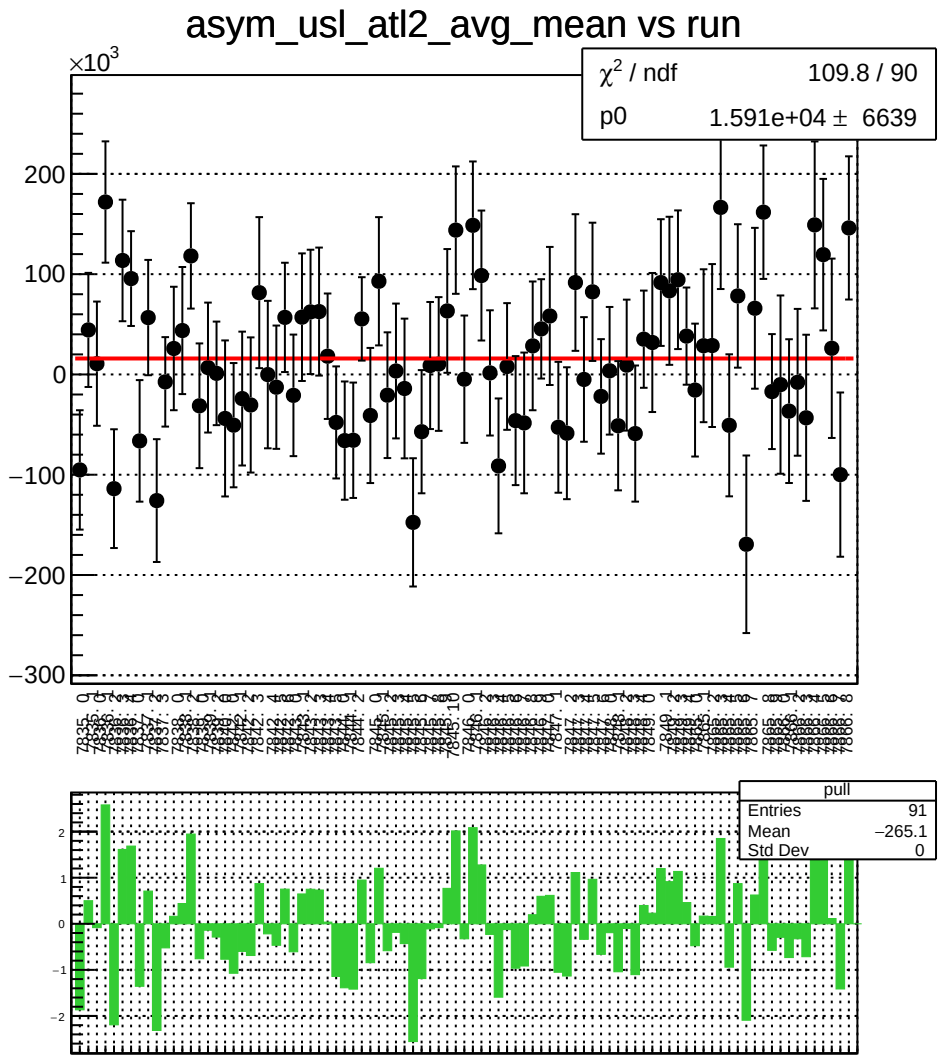

pull1D
Entries 91
Mean 0.003871
Std Dev 1.051

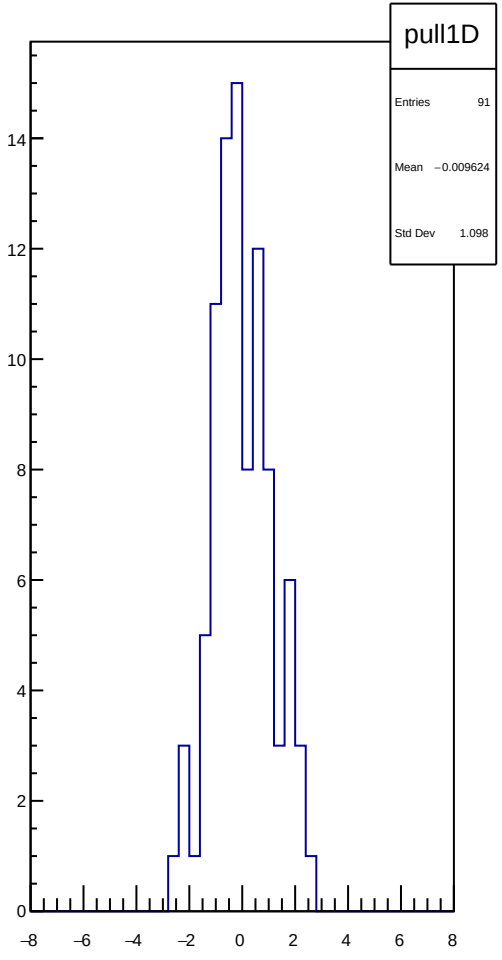

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 539.2 / 90
p0 1481 ± 1.118
1650
1600
1550
1500
1450

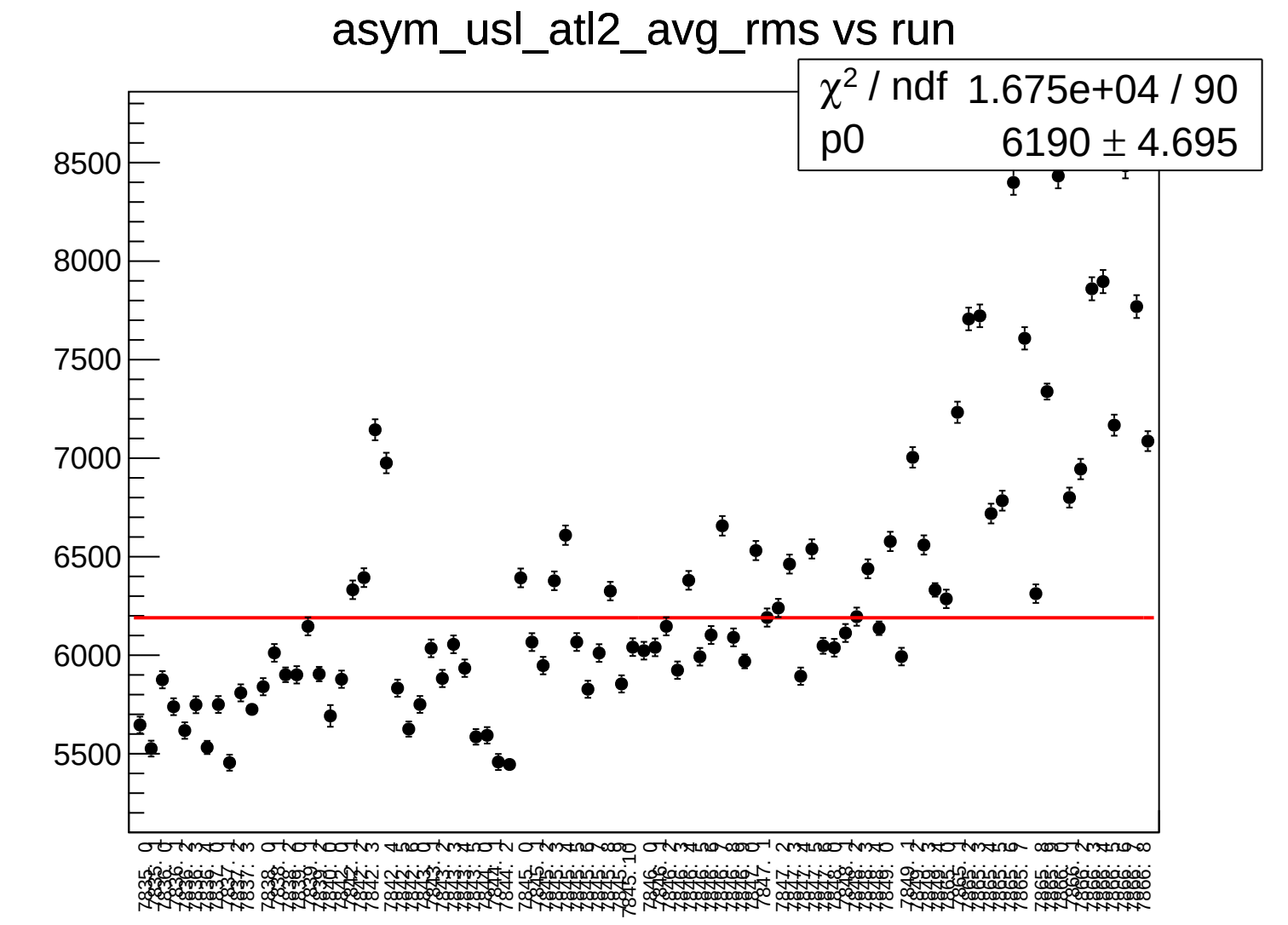

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 111.6 / 90
p0 −1.363e+04 ± 6468
200
100
0
−100
−200
pull
Entries 91
Mean −243.8
Std Dev 0
2
1
0
−1
−2

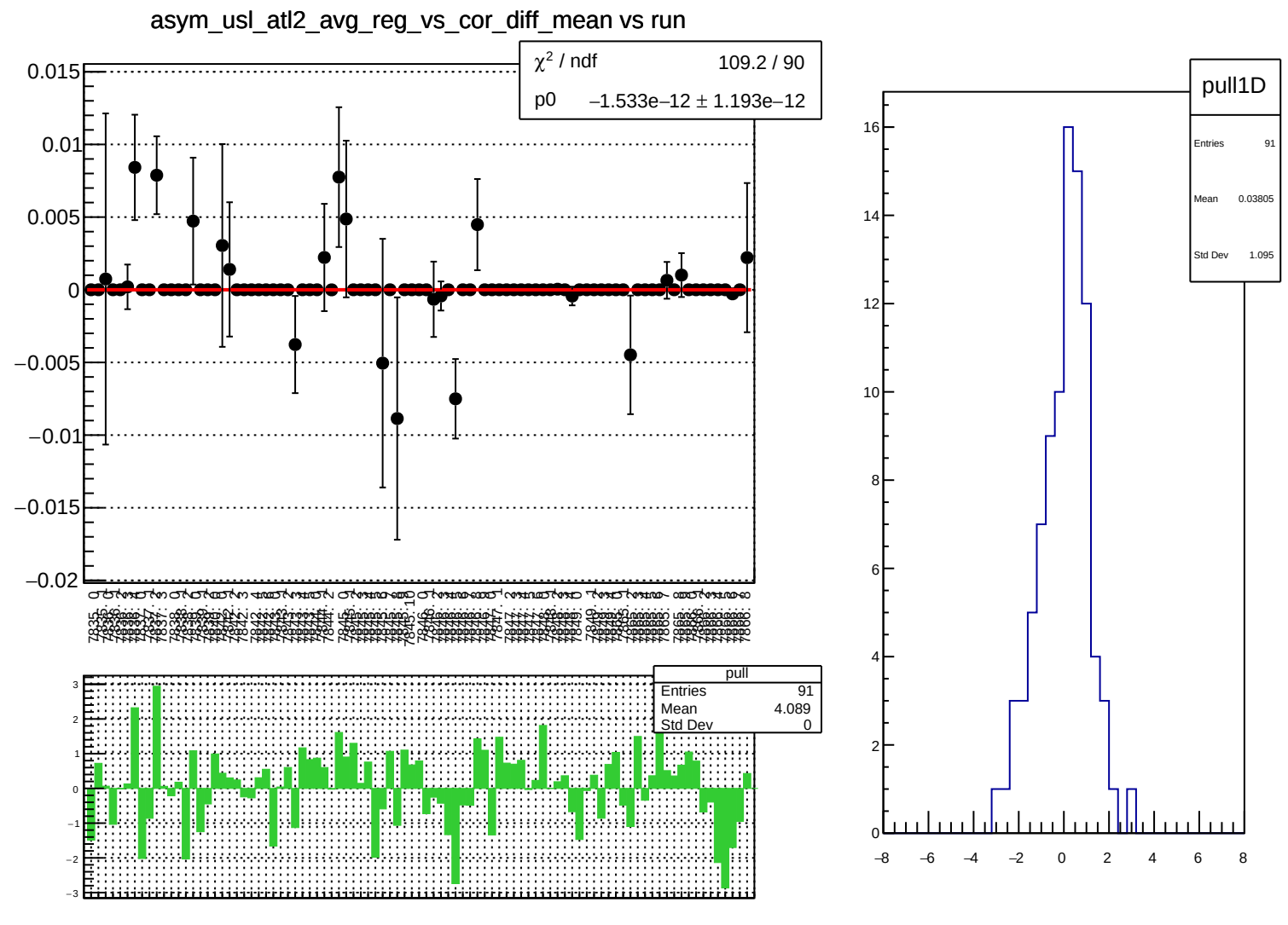

pull1D
Entries 91
Mean 0.01005
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

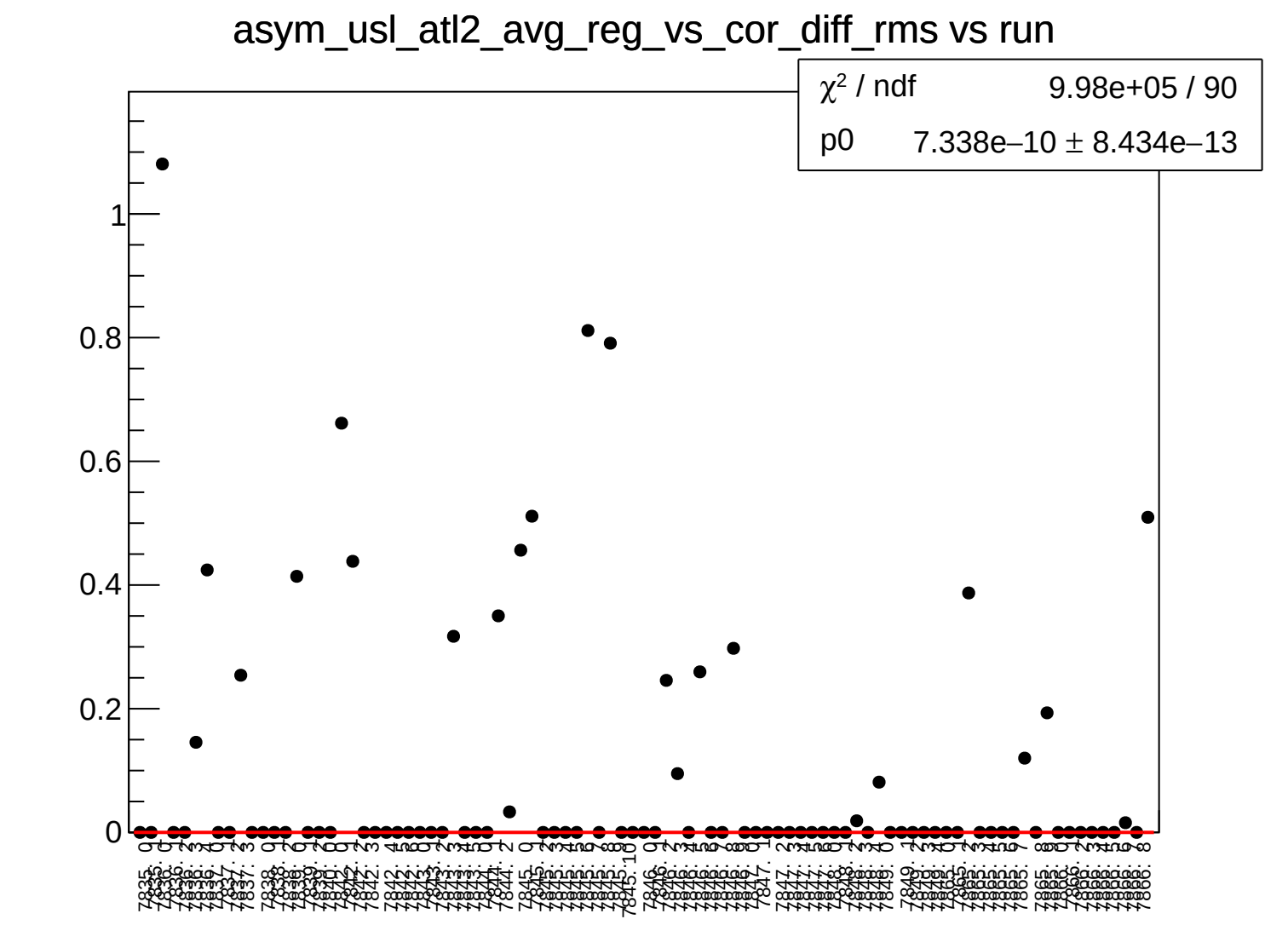

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.605e+04 / 90
p0 6031 ± 4.574
8500
8000
7500
7000
6500
6000
5500
5000

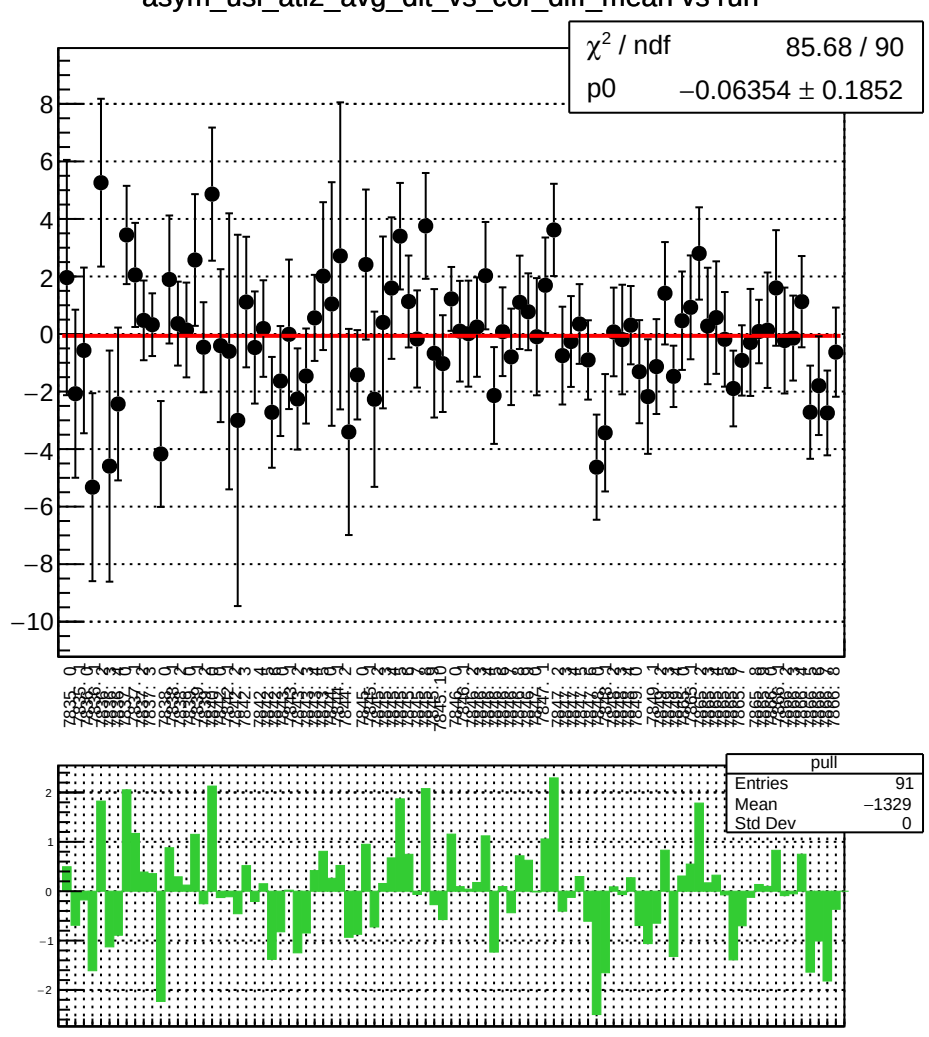

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 109.8 / 90
p0 1.591e+04 ± 6639
200
100
0
−100
−200
−300
pull
Entries 91
Mean −265.1
Std Dev 0
2
1
0
−1
−2

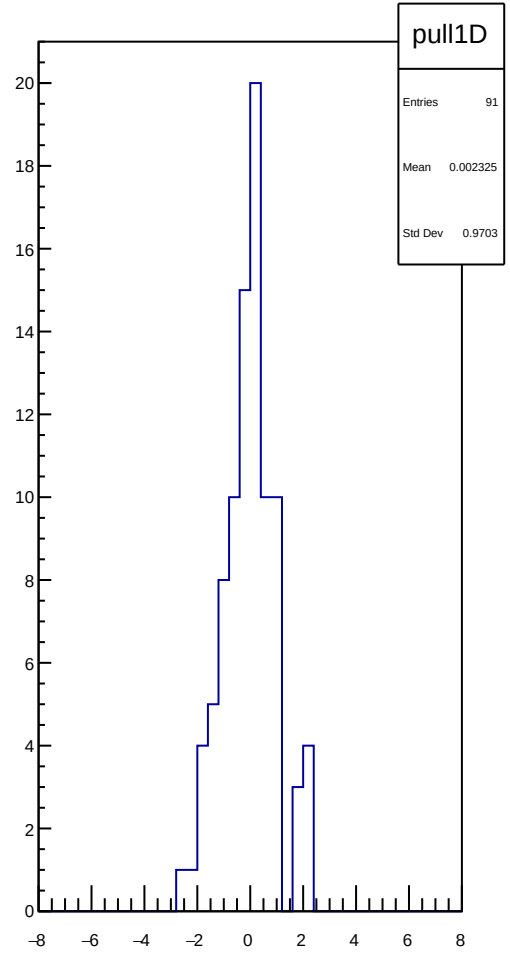

pull1D
Entries 91
Mean −0.009624
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

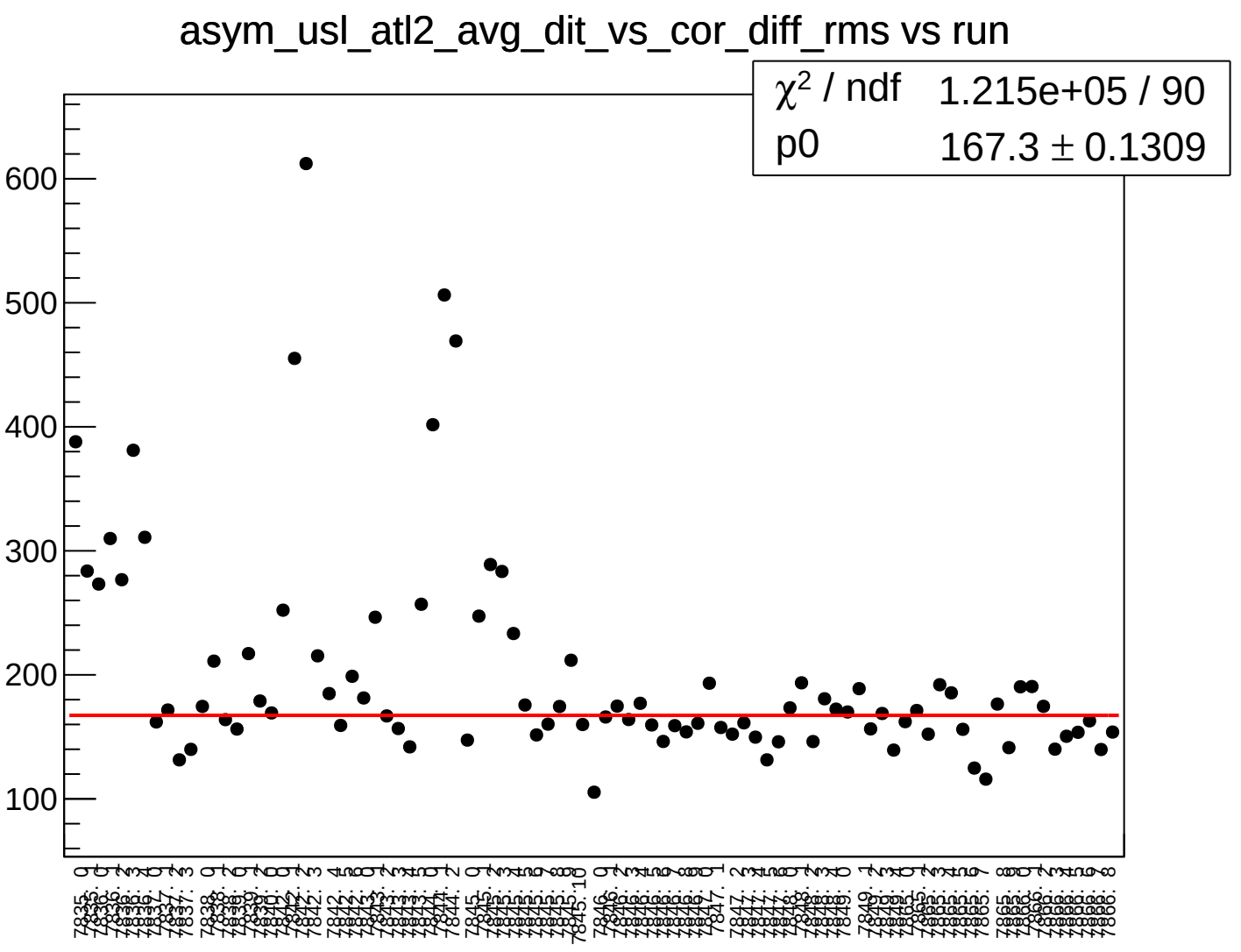

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.675e+04 / 90
p0 6190 ± 4.695
8500
8000
7500
7000
6500
6000
5500

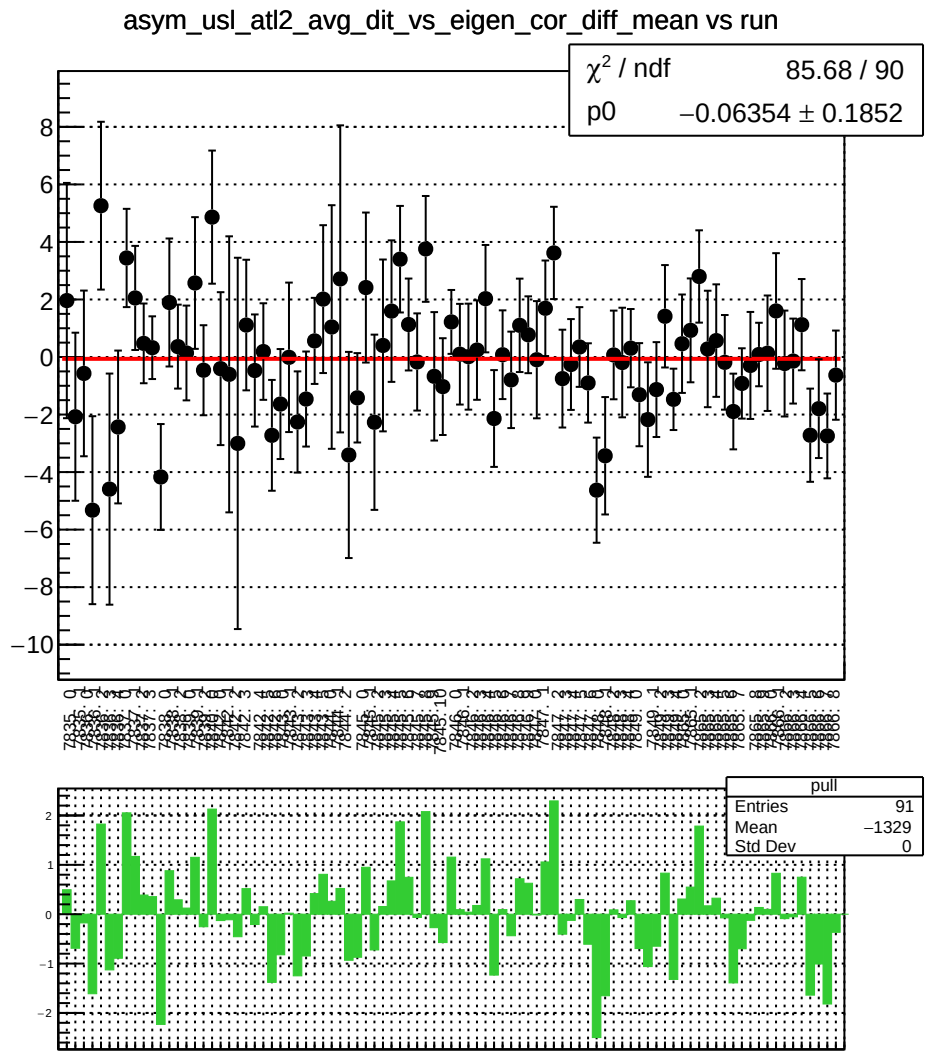

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 90
p0 −1.533e−12 ± 1.193e−12
pull
Entries 91
Mean 4.089
Std Dev 0
pull1D
Entries 91
Mean 0.03805
Std Dev 1.095

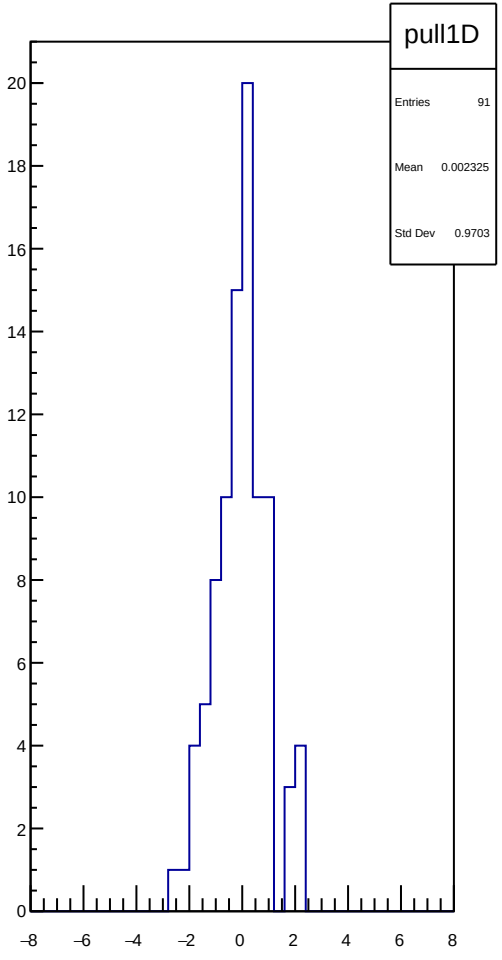

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.98e+05 / 90
p0 7.338e−10 ± 8.434e−13
1
0.8
0.6
0.4
0.2
0

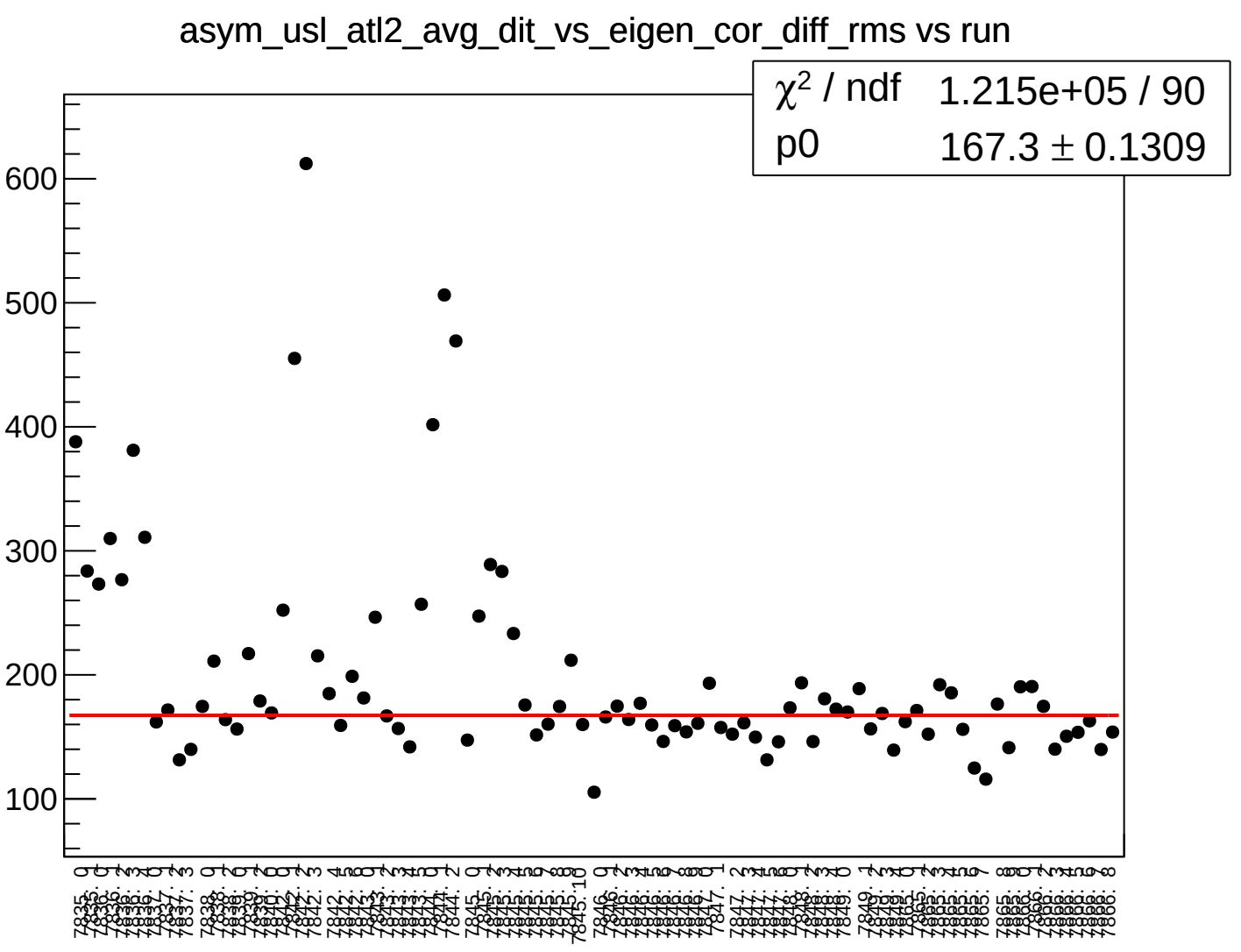

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 90
p0 −0.06354 ± 0.1852
pull
Entries 91
Mean −1329
Std Dev 0

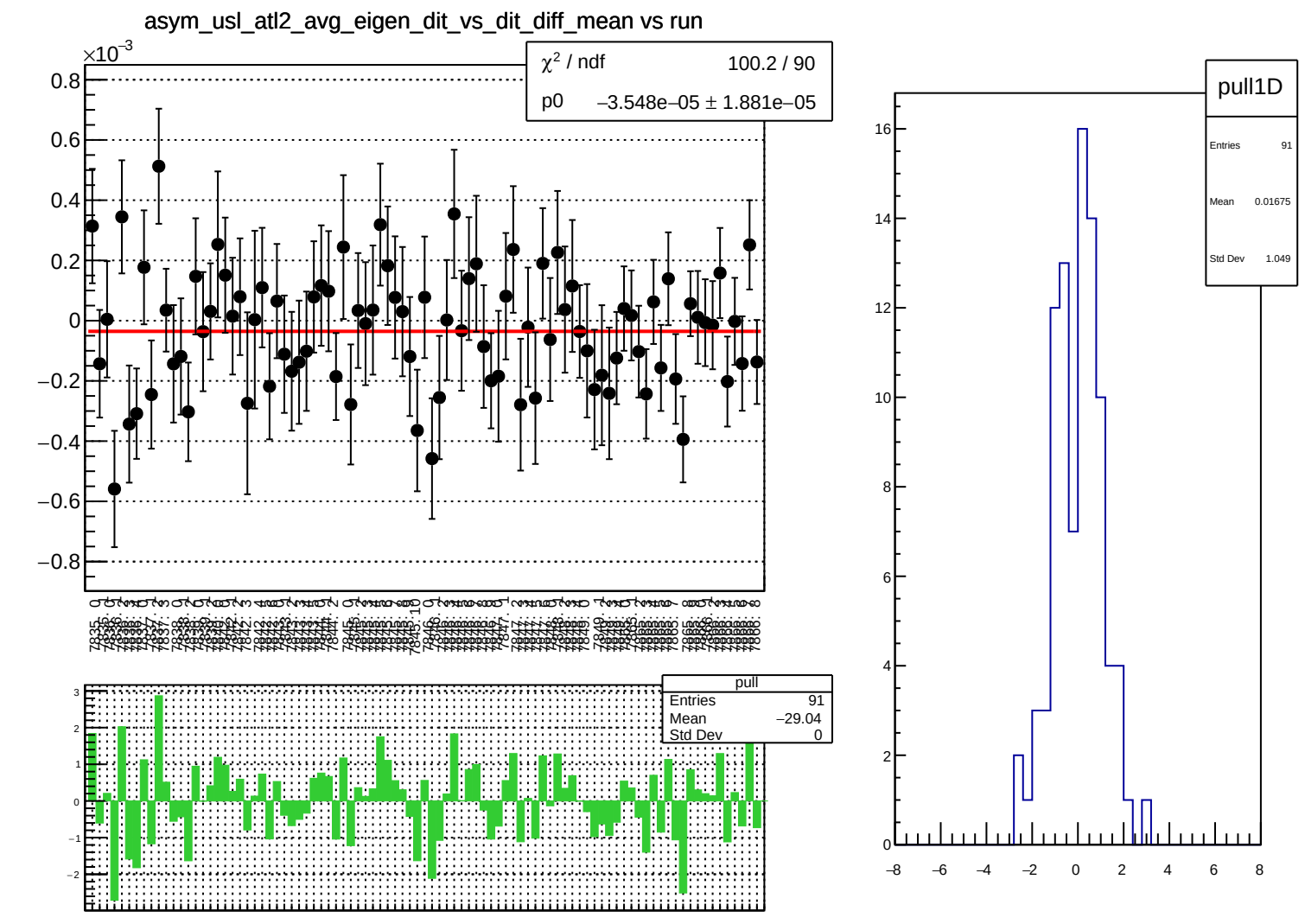

pull1D
Entries 91
Mean 0.002325
Std Dev 0.9703

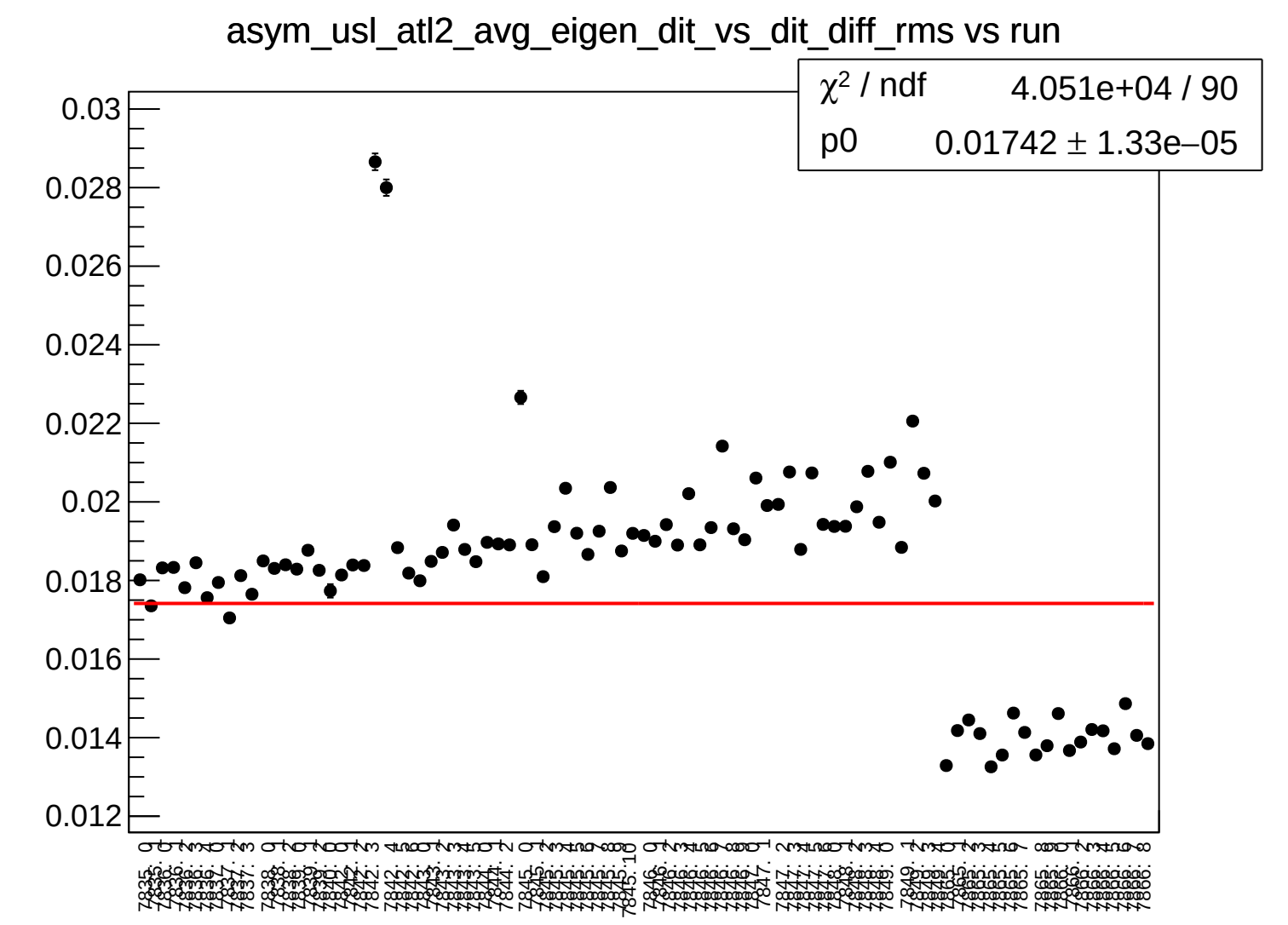

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.215e+05 / 90
p0 167.3 ± 0.1309
600
500
400
300
200
100

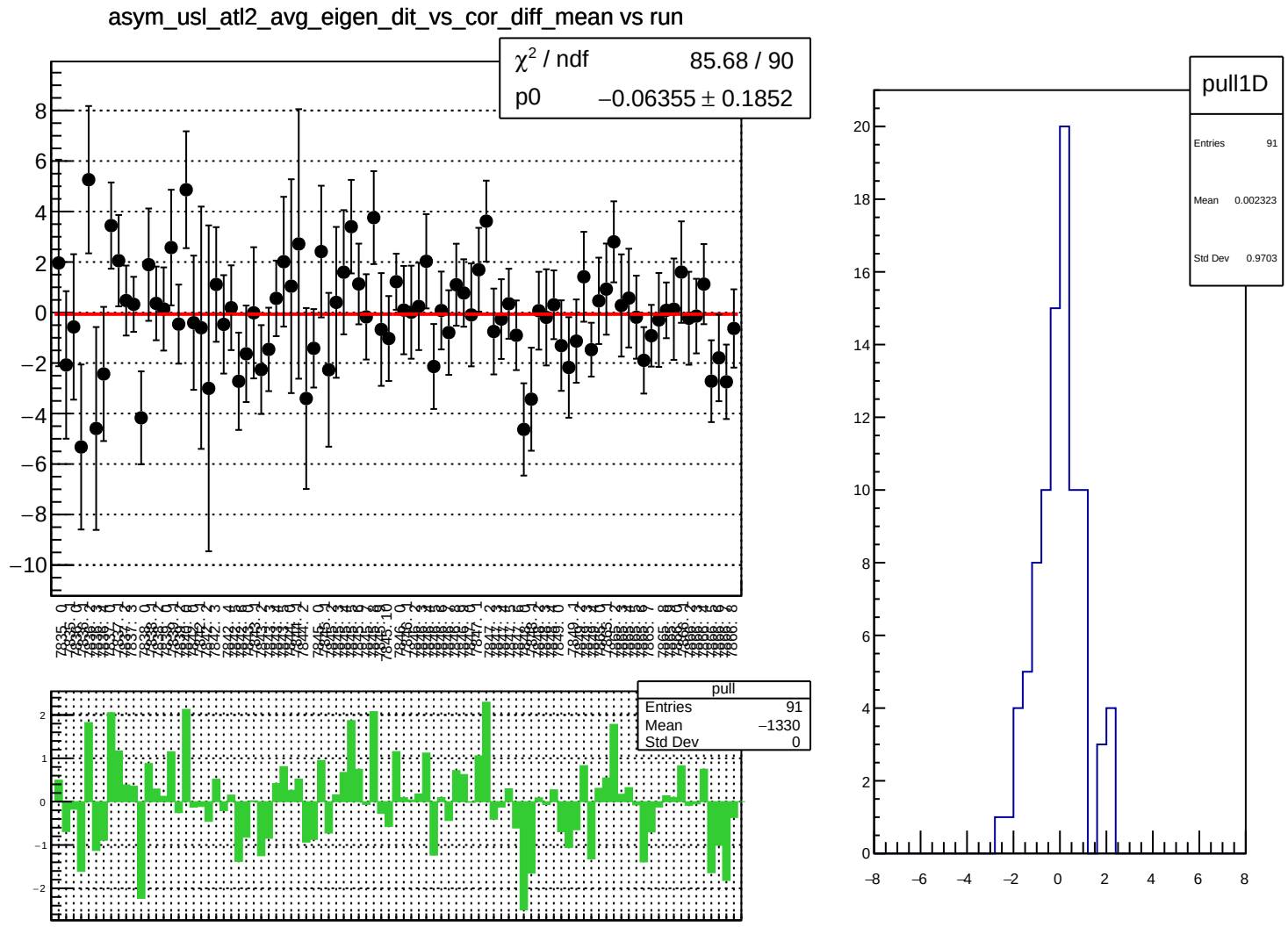

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.68 / 90
p0 −0.06354 ± 0.1852
pull
Entries 91
Mean −1329
Std Dev 0

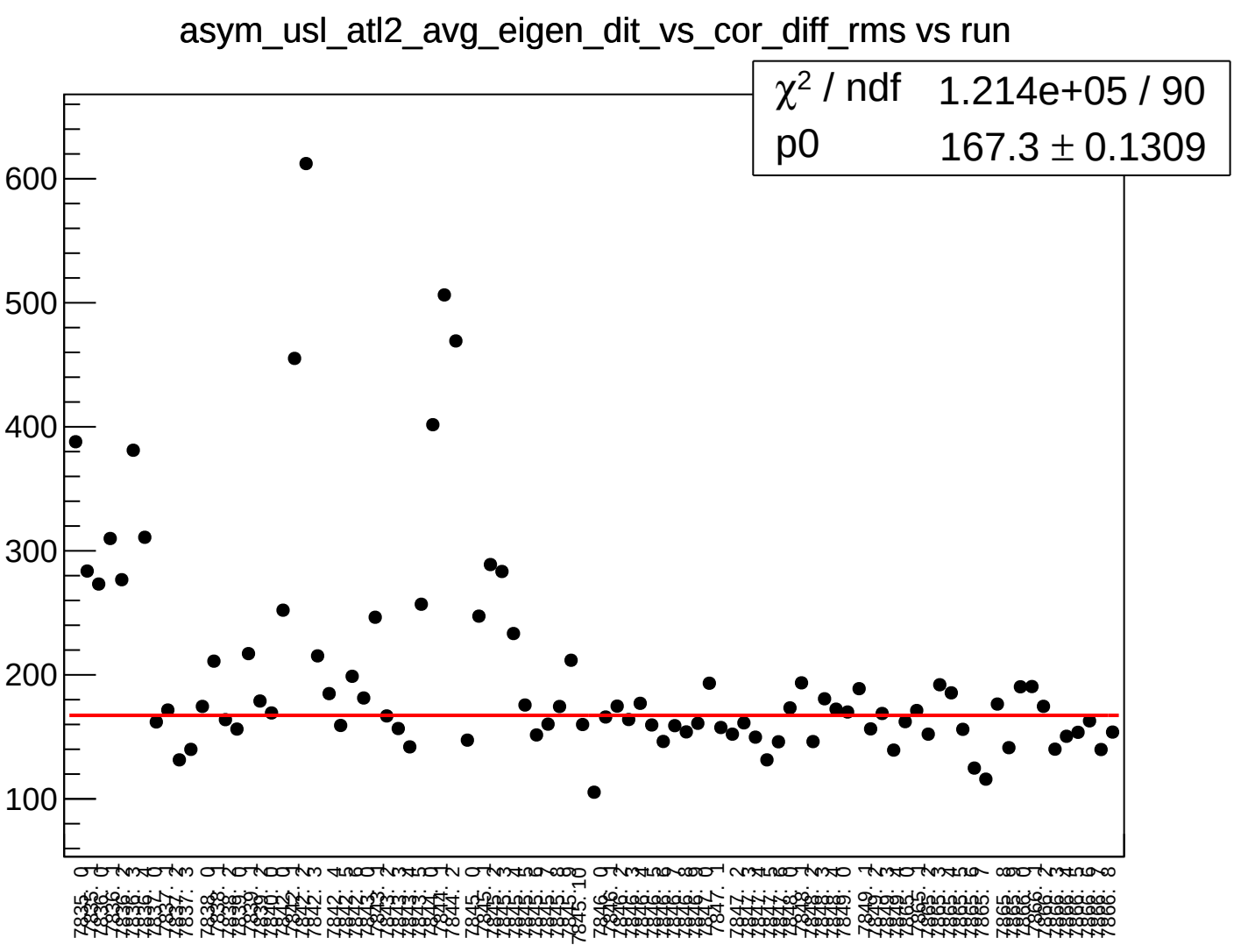

pull1D
Entries 91
Mean 0.002325
Std Dev 0.9703

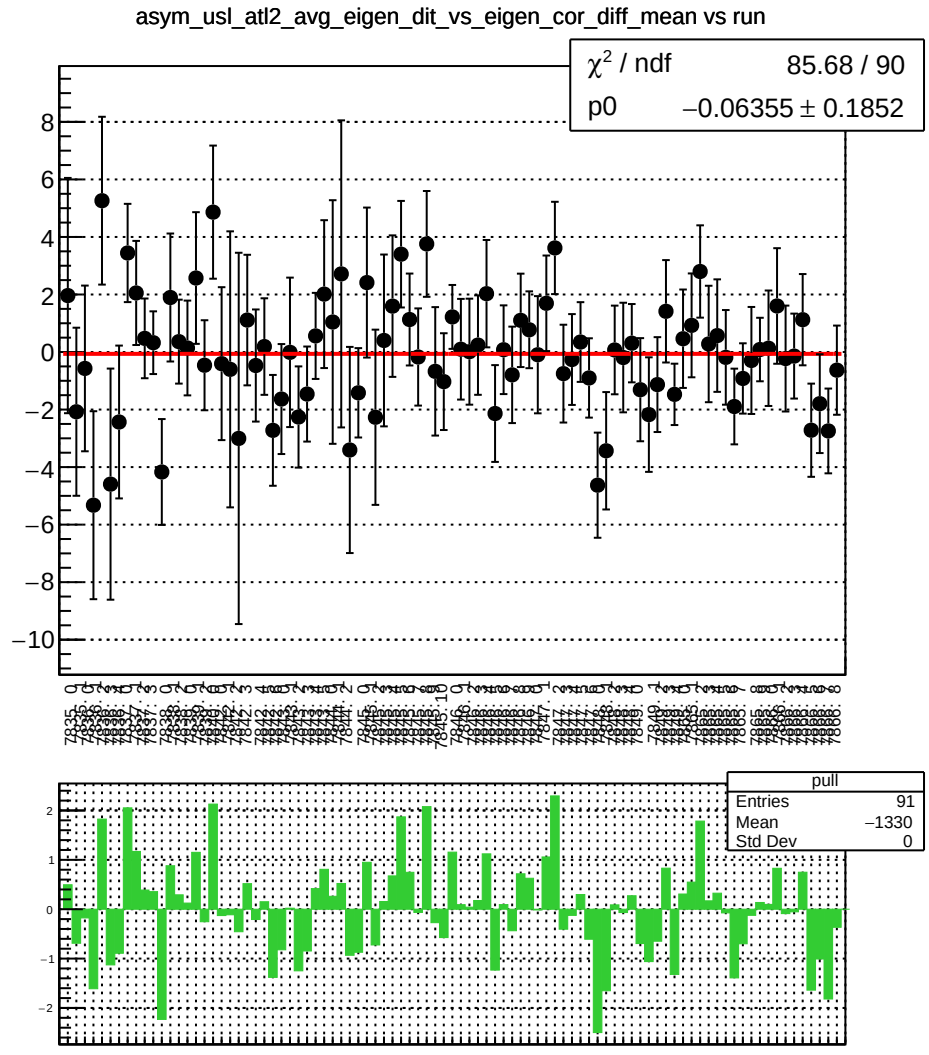

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.215e+05 / 90
p0 167.3 ± 0.1309
600
500
400
300
200
100

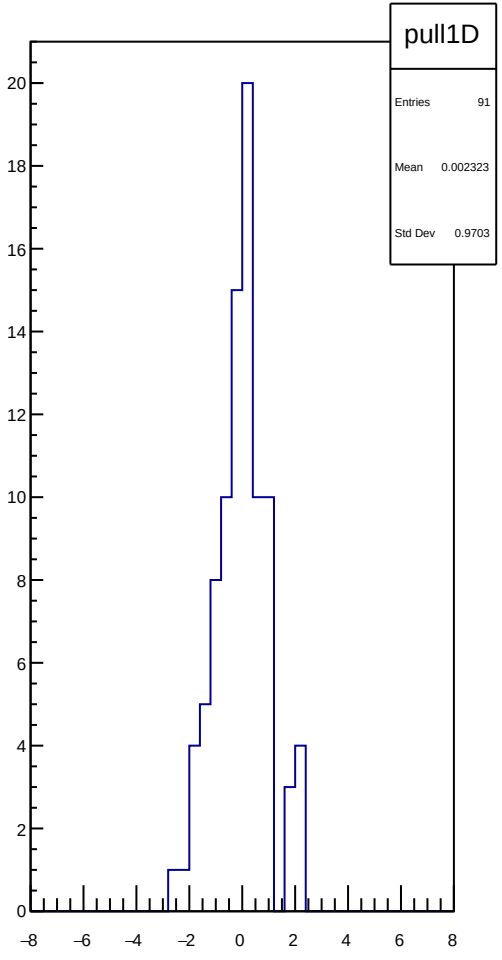

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 100.2 / 90
p0 −3.548e−05 ± 1.881e−05
pull
Entries 91
Mean −29.04
Std Dev 0
pull1D
Entries 91
Mean 0.01675
Std Dev 1.049

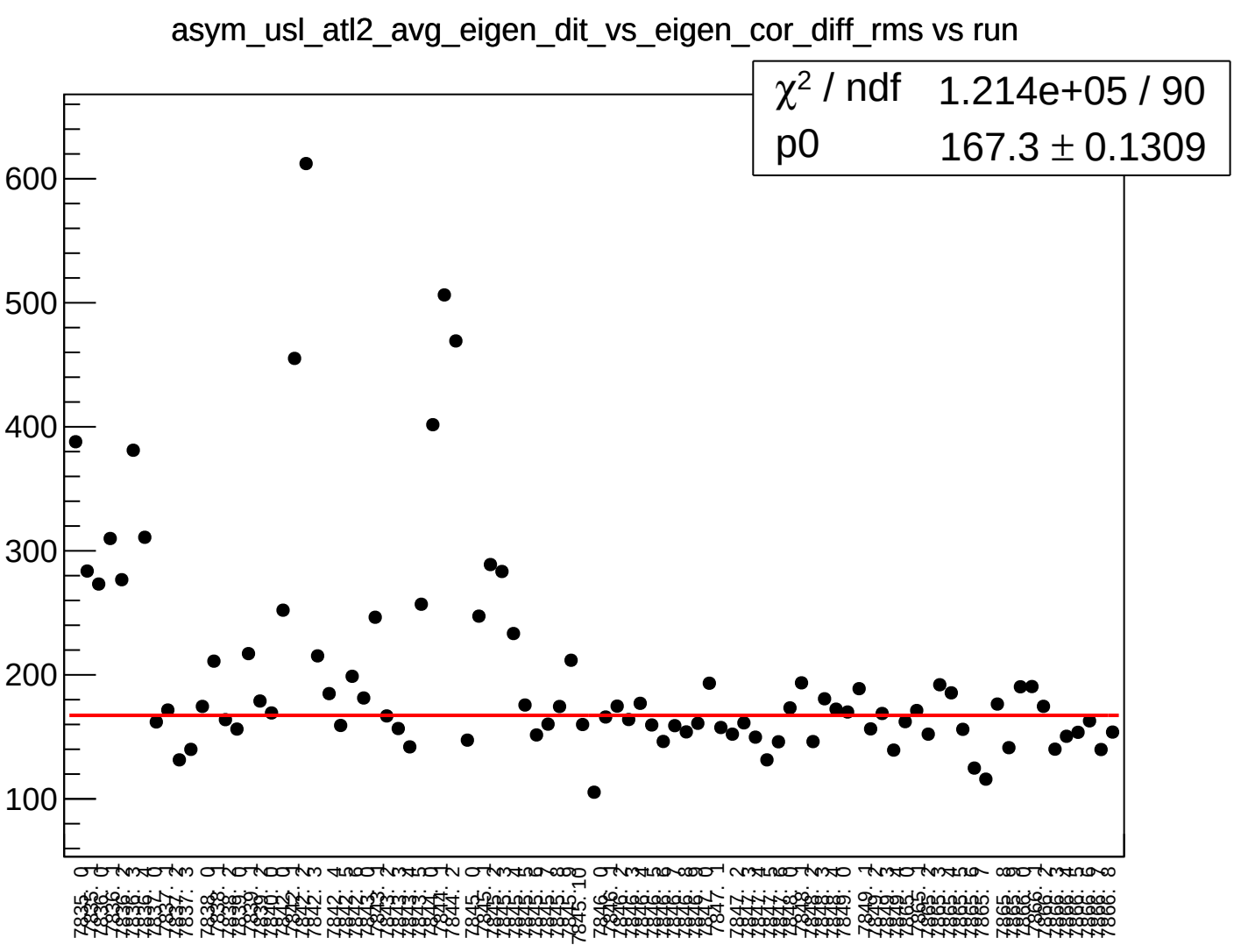

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.051e+04 / 90
p0 0.01742 ± 1.33e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

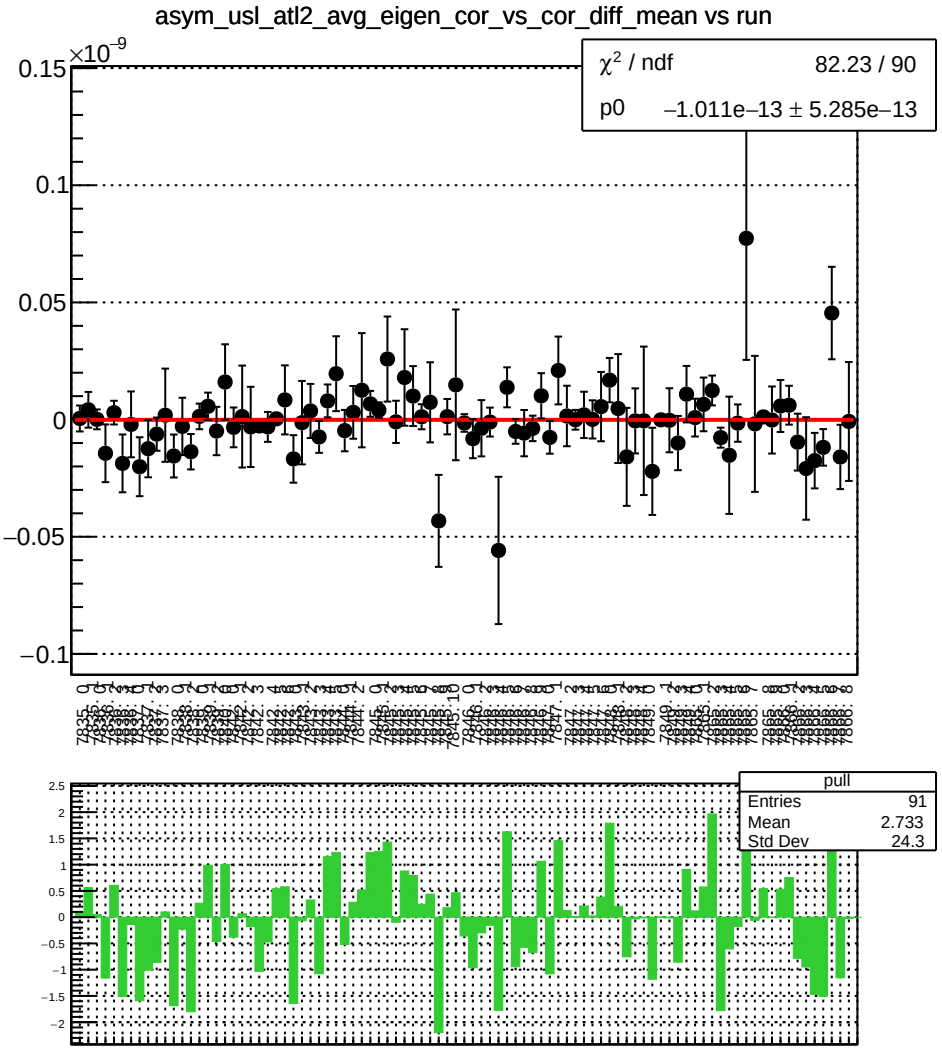

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 90
p0 −0.06355 ± 0.1852
pull
Entries 91
Mean −1330
Std Dev 0
pull1D
Entries 91
Mean 0.002323
Std Dev 0.9703

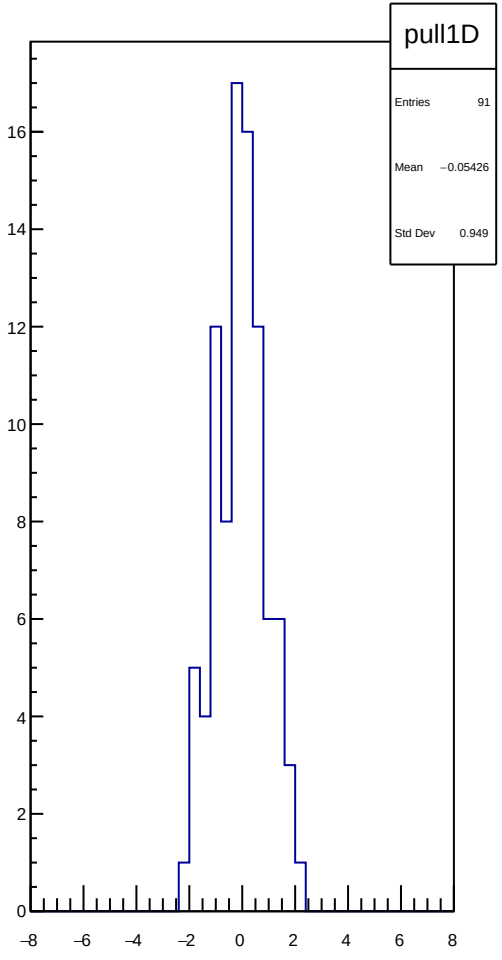

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.214e+05 / 90
p0 167.3 ± 0.1309
600
500
400
300
200
100

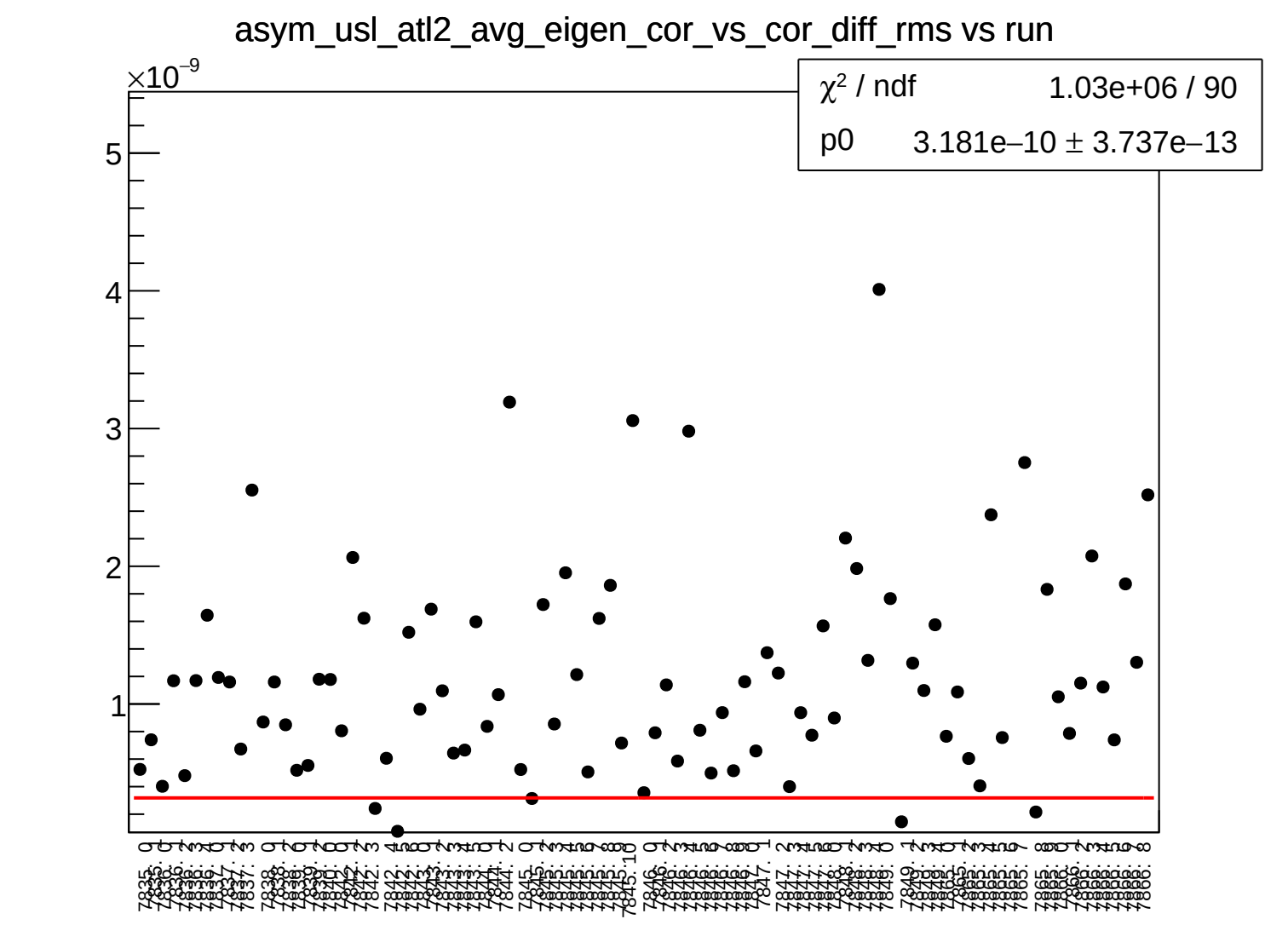

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.68 / 90
p0 −0.06355 ± 0.1852
pull
Entries 91
Mean −1330
Std Dev 0

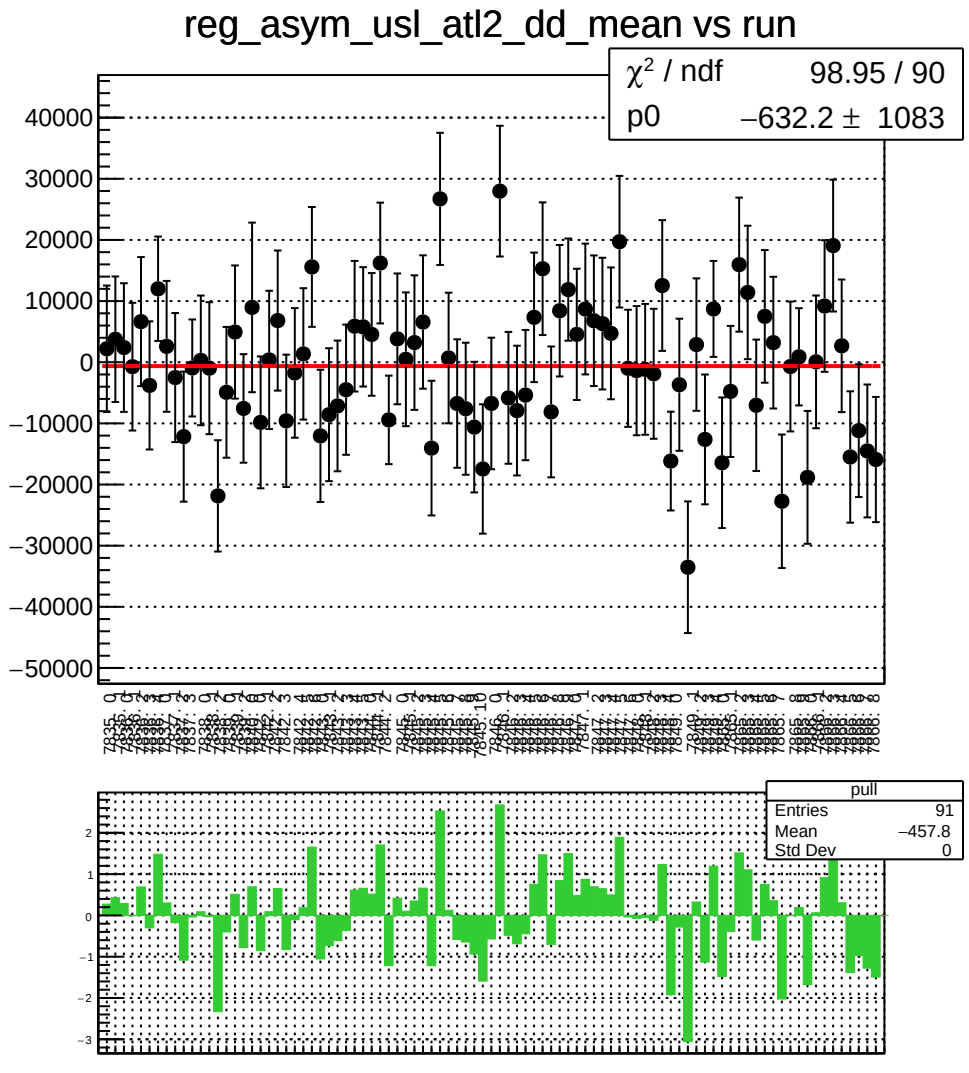

pull1D
Entries 91
Mean 0.002323
Std Dev 0.9703

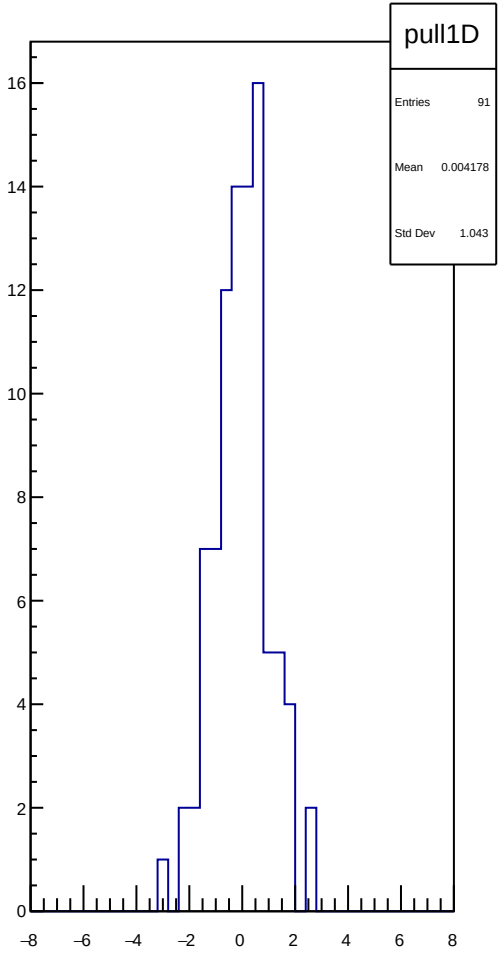

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.214e+05 / 90
p0 167.3 ± 0.1309
600
500
400
300
200
100

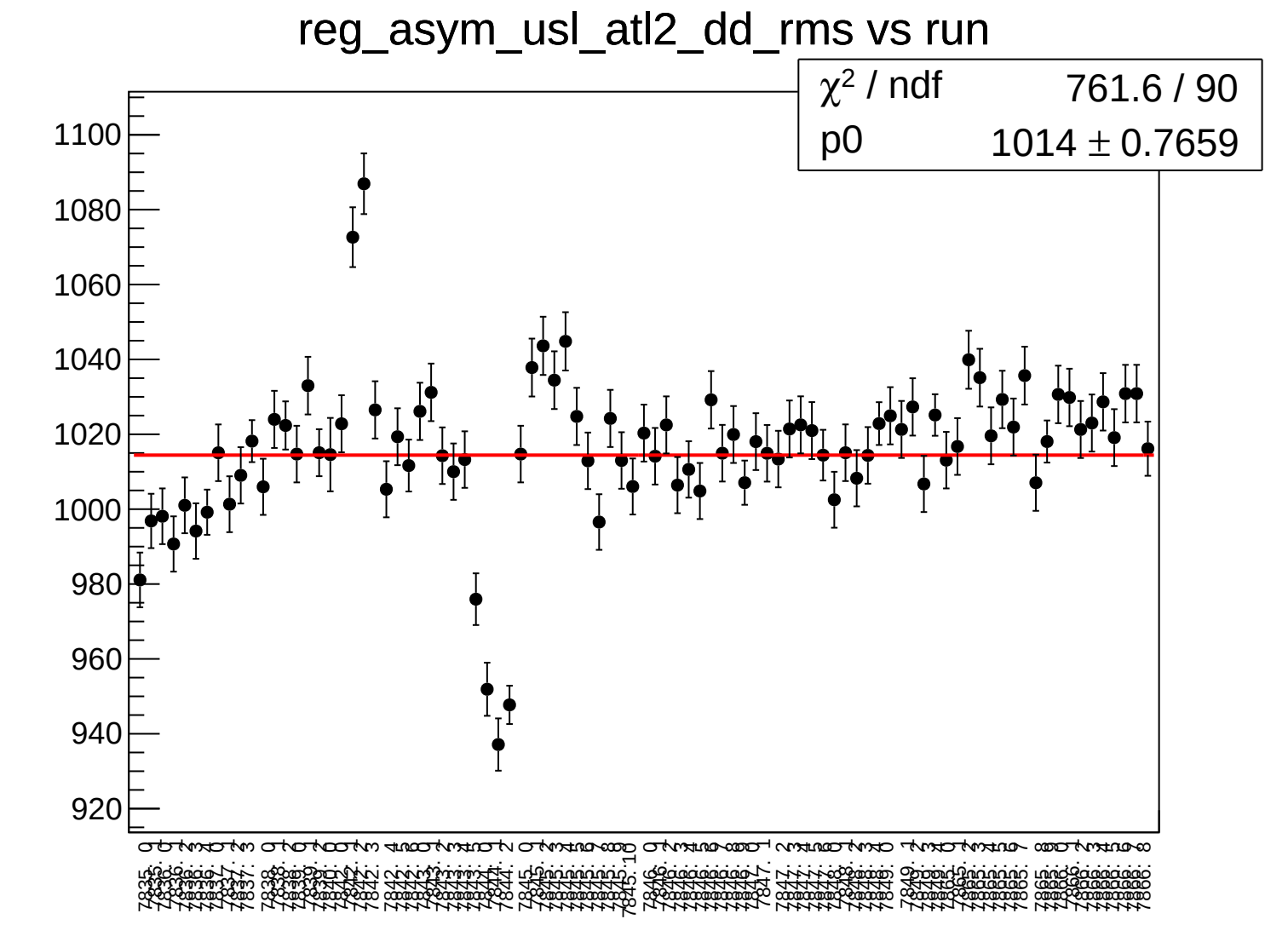

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 82.23 / 90
p0 −1.011e−13 ± 5.285e−13
pull
Entries 91
Mean 2.733
Std Dev 24.3

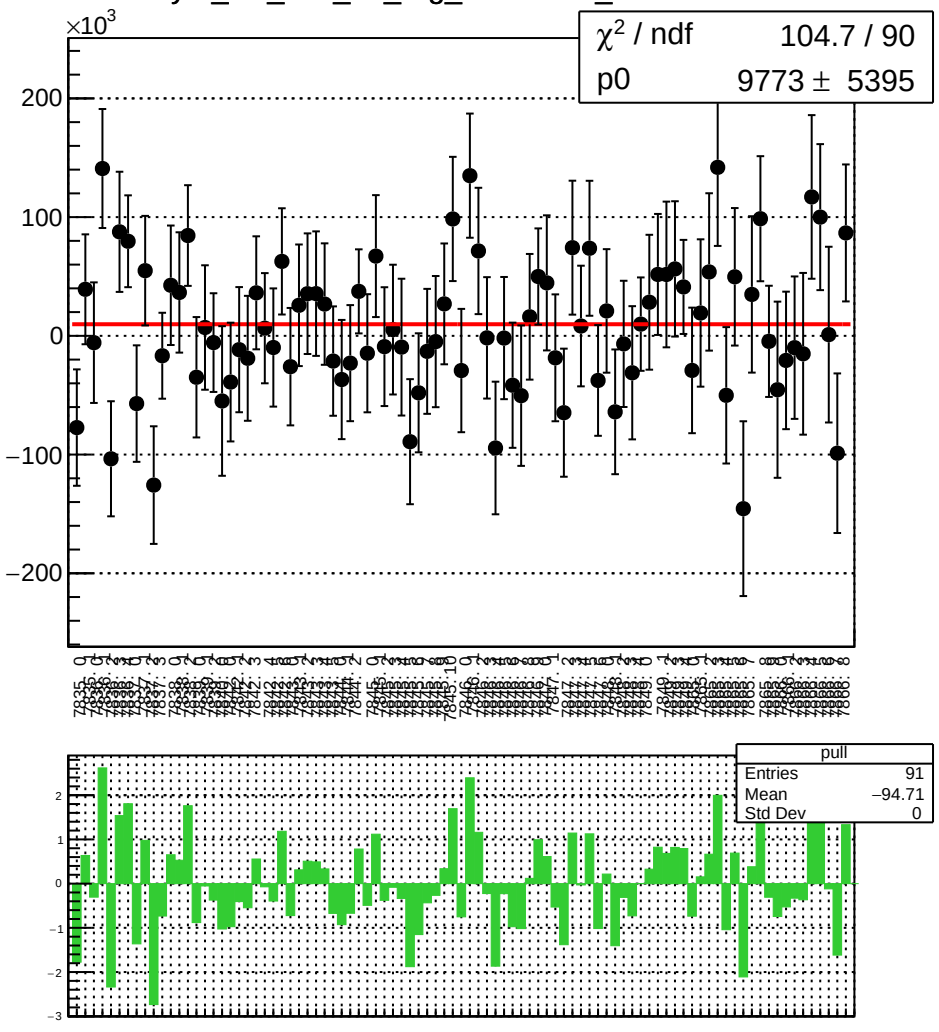

pull1D
Entries 91
Mean −0.05426
Std Dev 0.949

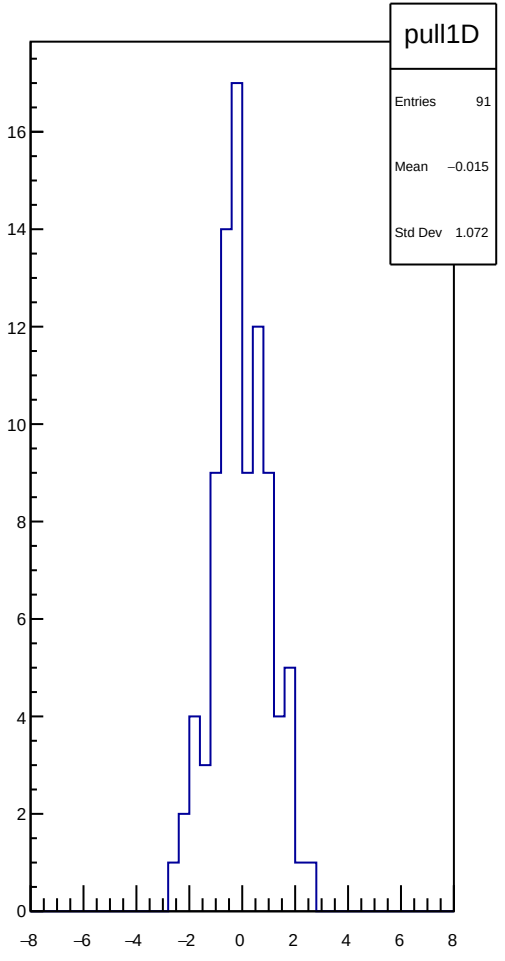

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.03e+06 / 90
p0 3.181e−10 ± 3.737e−13
5
4
3
2
1

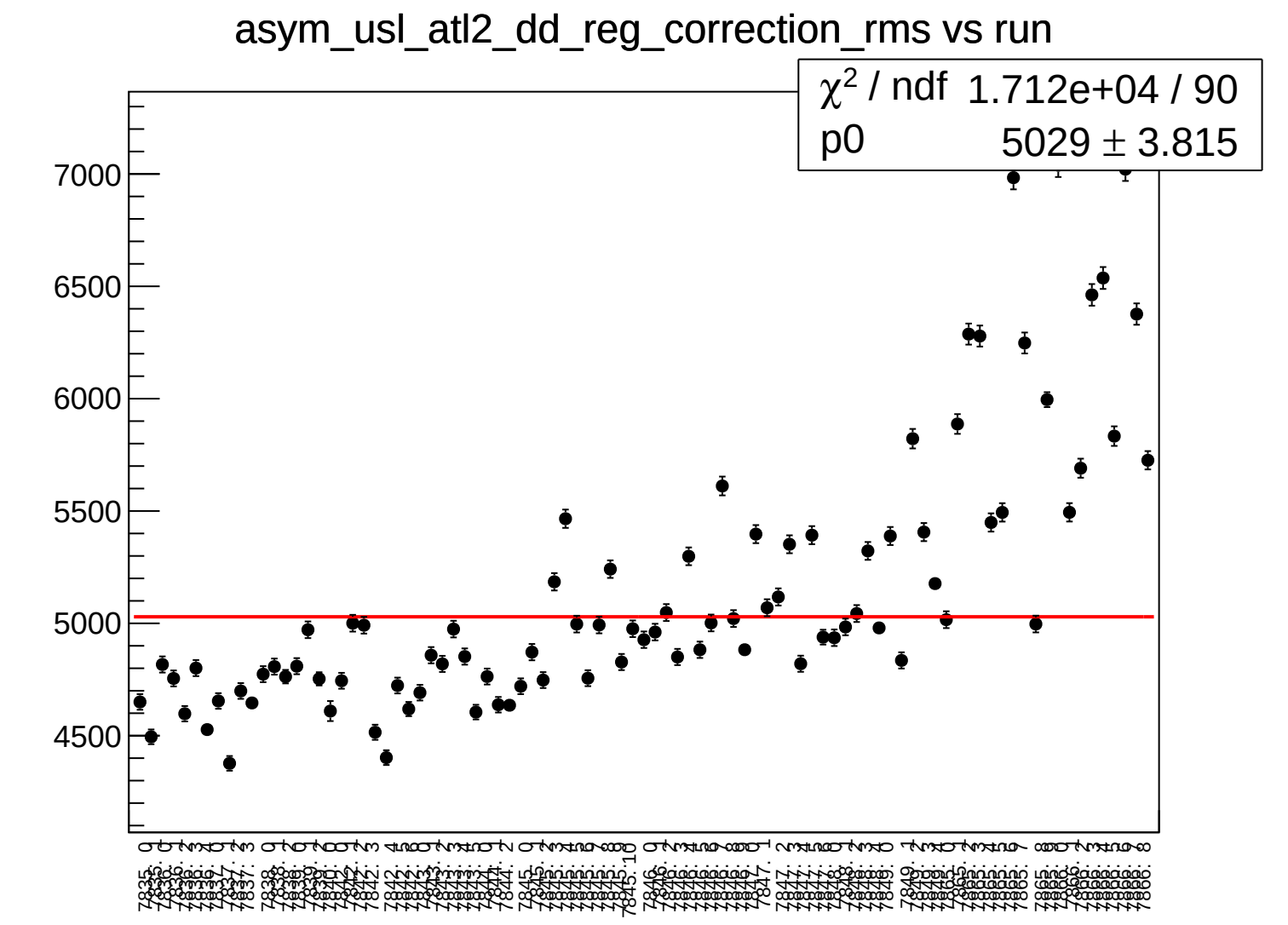

reg_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 98.95 / 90
p0 −632.2 ± 1083
pull
Entries 91
Mean −457.8
Std Dev 0

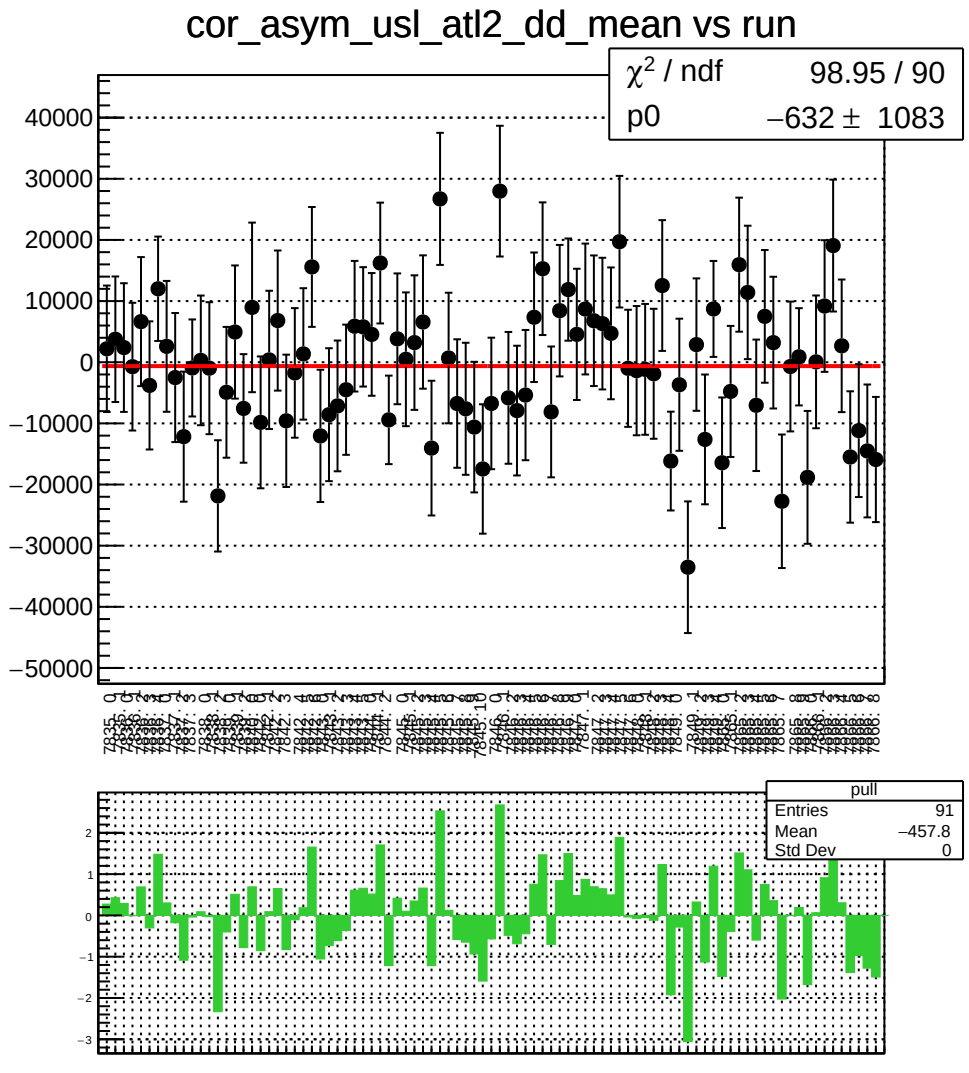

pull1D
Entries 91
Mean 0.004178
Std Dev 1.043

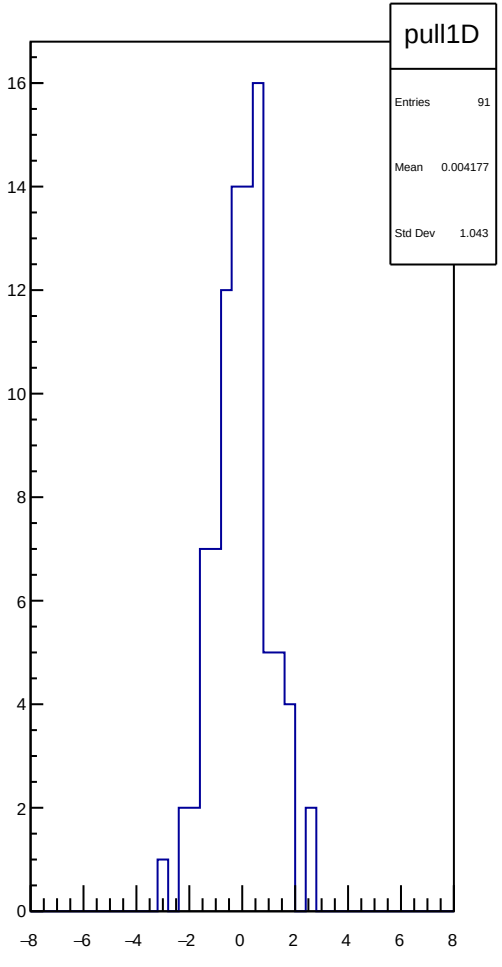

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 761.6 / 90
p0 1014 ± 0.7659
1100
1080
1060
1040
1020
1000
980
960
940
920

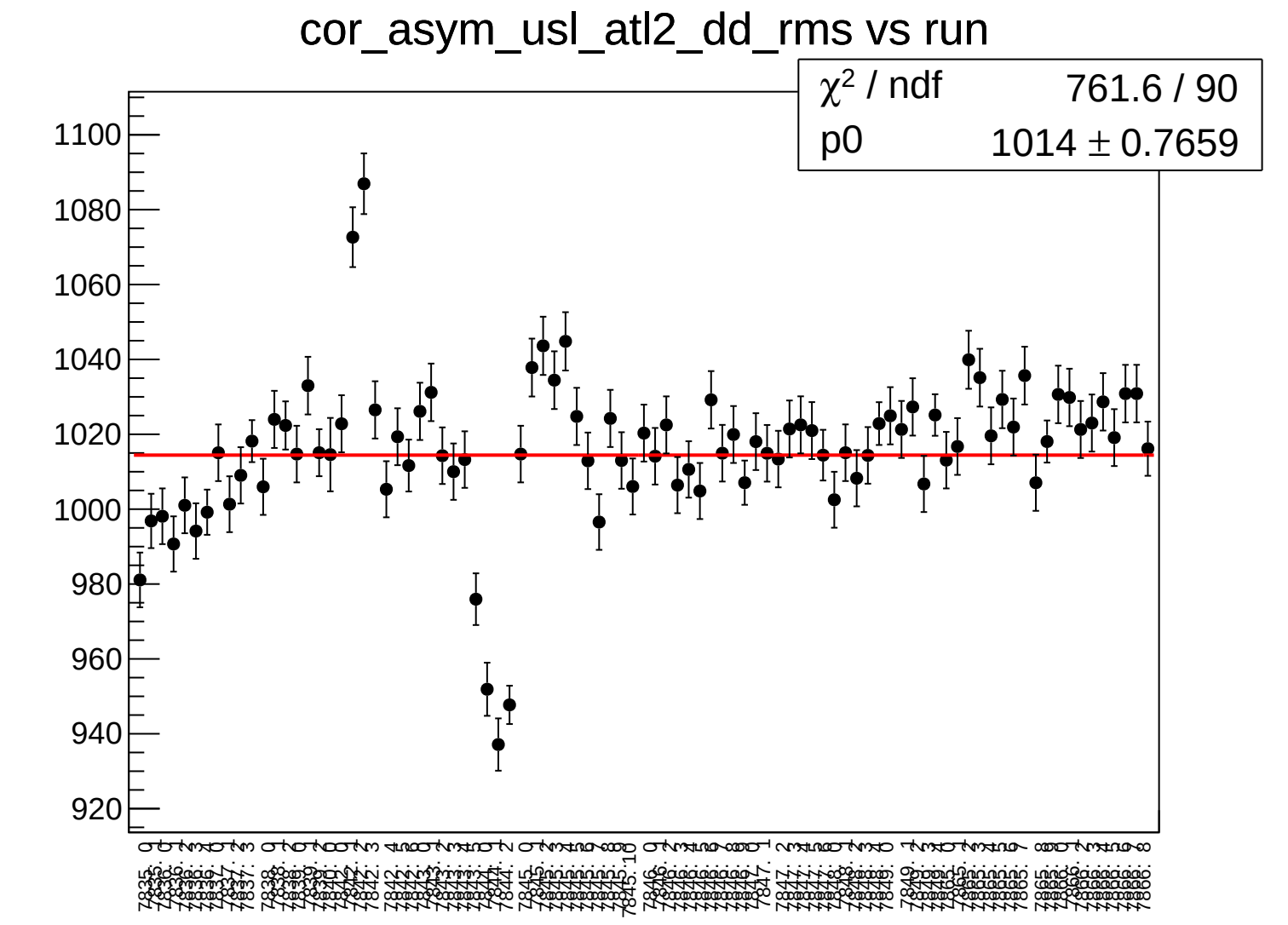

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 104.7 / 90
p0 9773 ± 5395
200
100
0
−100
−200
pull
Entries 91
Mean −94.71
Std Dev 0
2
1
0
−1
−2
−3

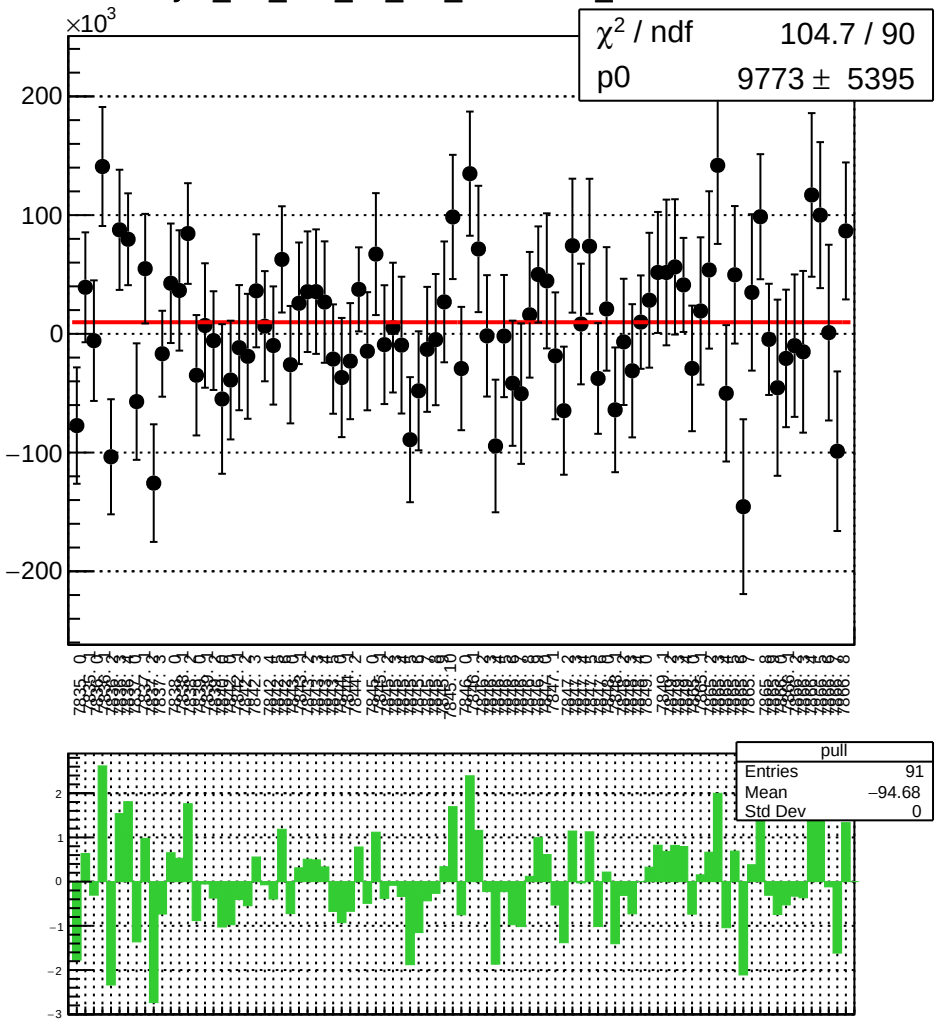

pull1D
Entries 91
Mean −0.015
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

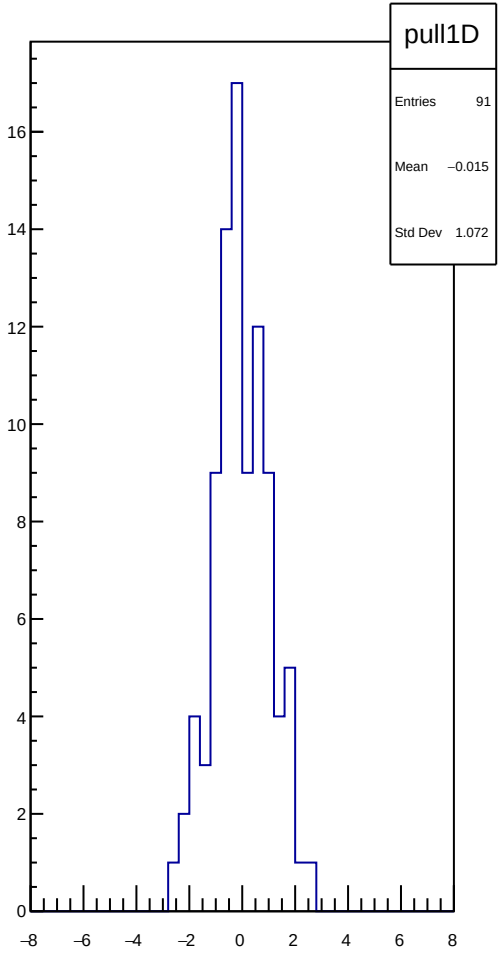

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.712e+04 / 90
p0 5029 ± 3.815
7000
6500
6000
5500
5000
4500

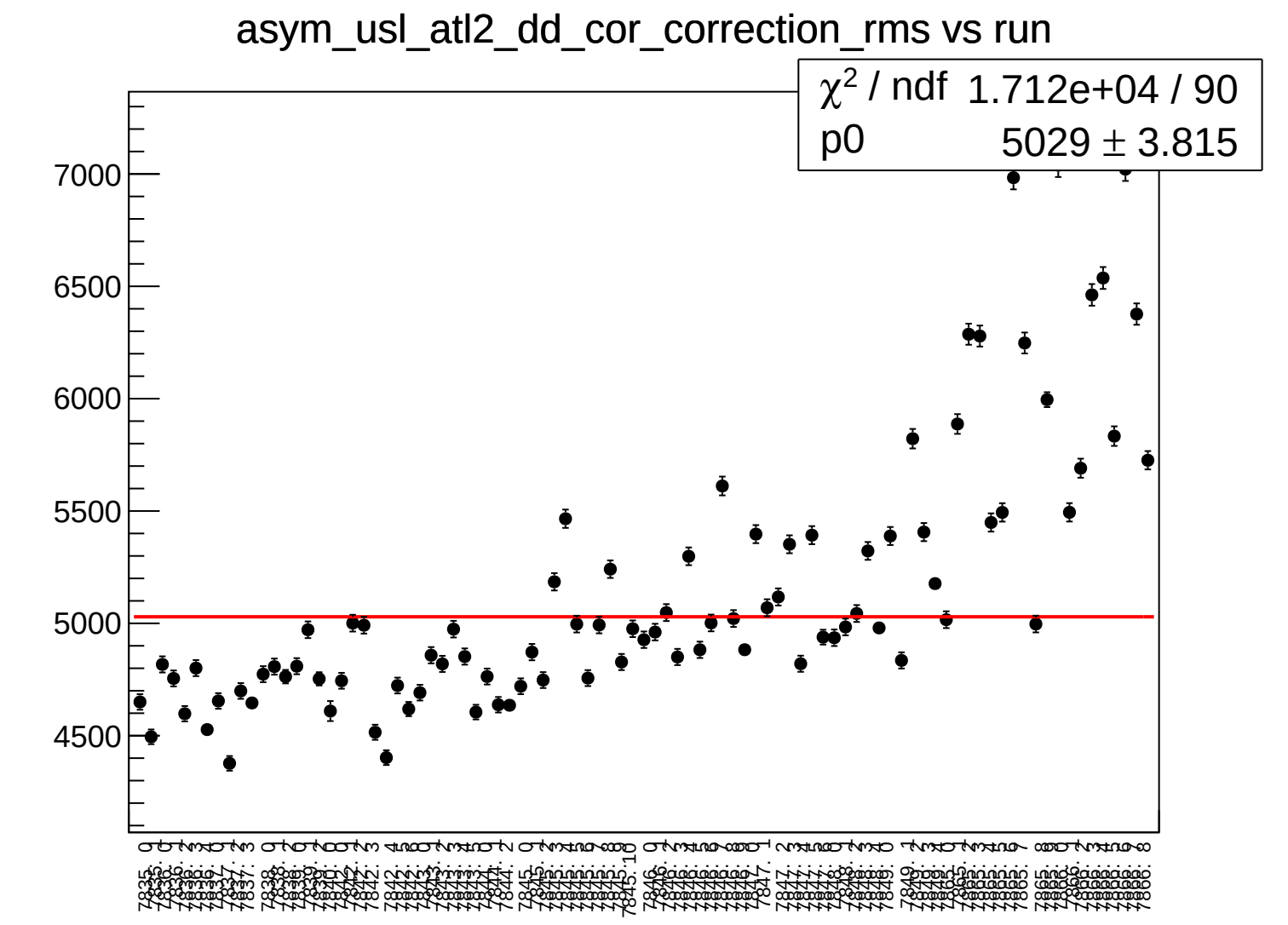

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 98.95 / 90
p0 −632 ± 1083
pull
Entries 91
Mean −457.8
Std Dev 0

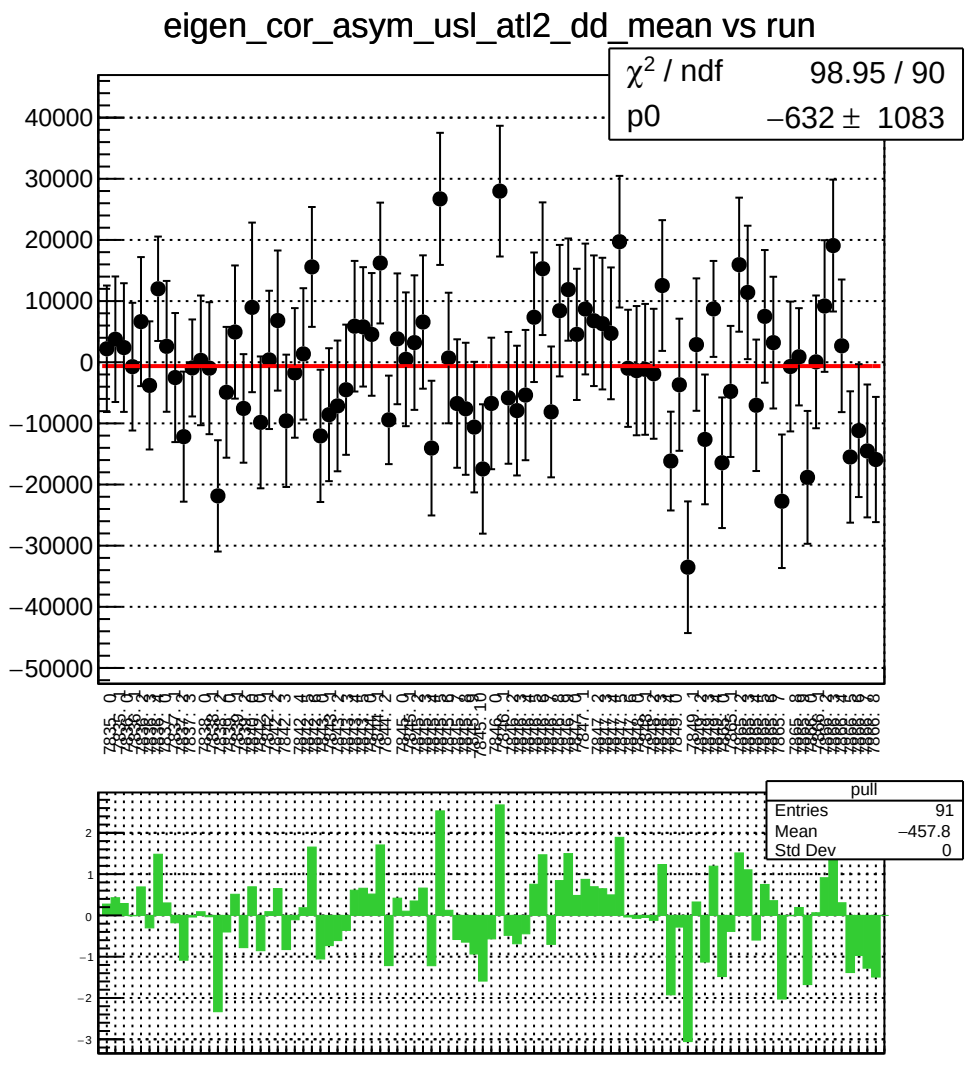

pull1D
Entries 91
Mean 0.004177
Std Dev 1.043

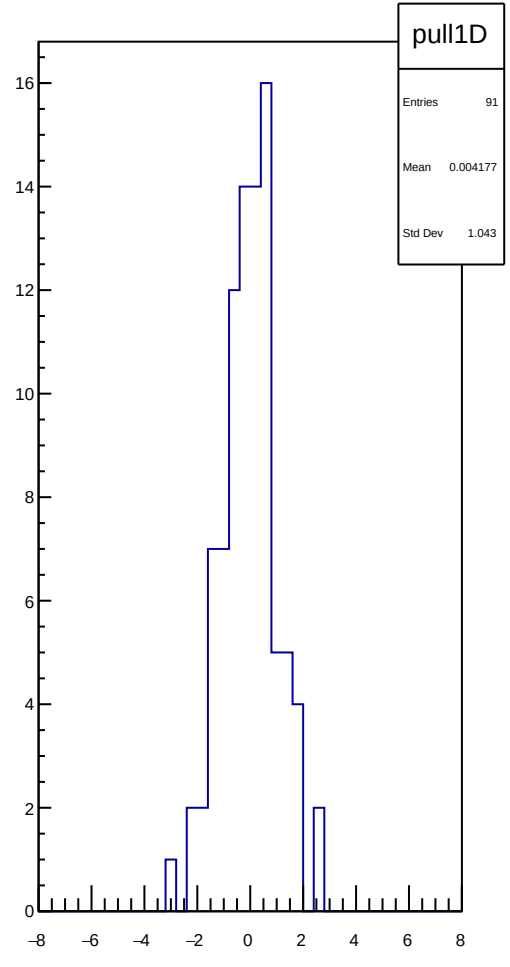

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 761.6 / 90
p0 1014 ± 0.7659
1100
1080
1060
1040
1020
1000
980
960
940
920

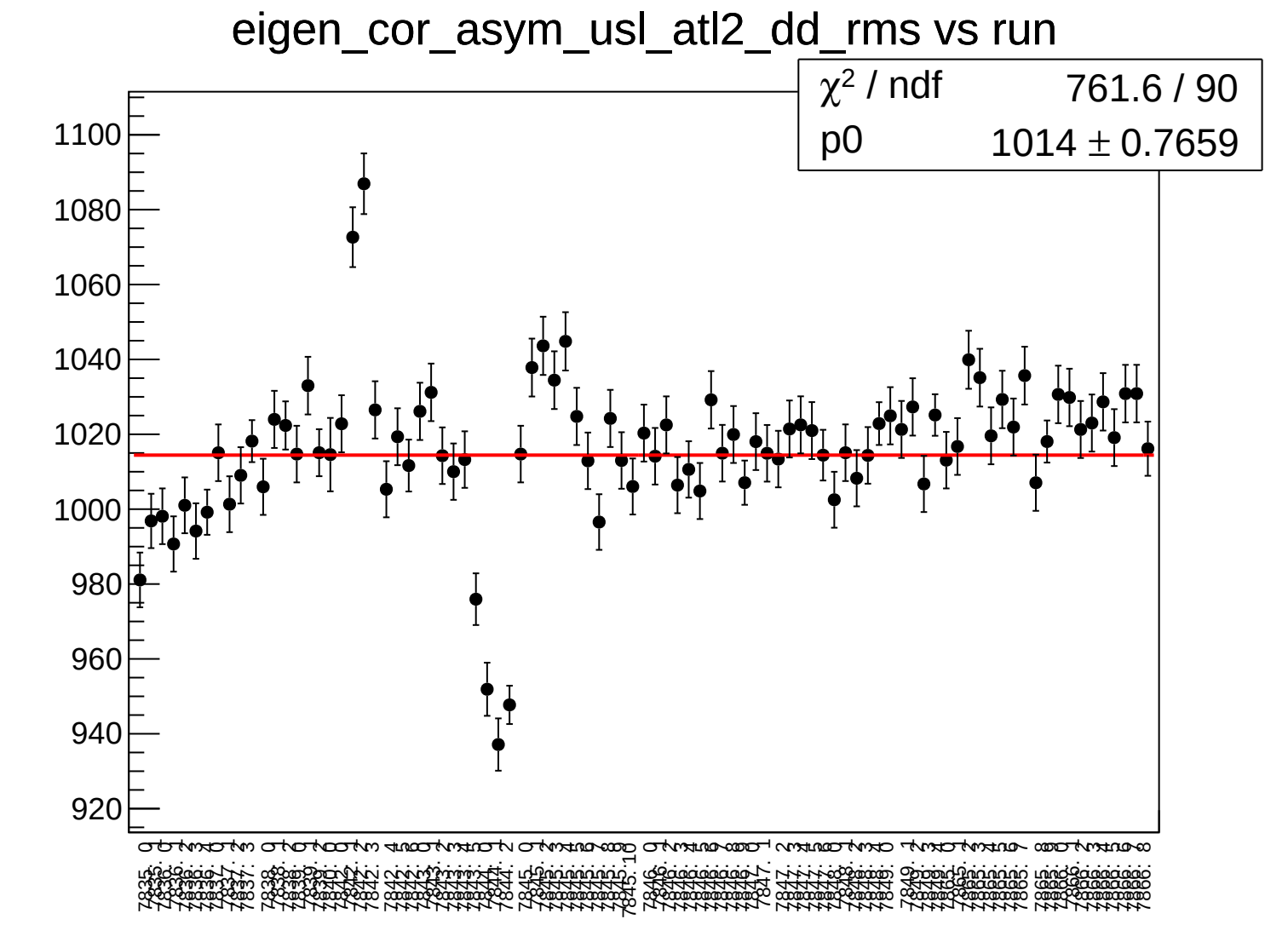

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 104.7 / 90
p0 9773 ± 5395
200
100
0
−100
−200
pull
Entries 91
Mean −94.68
Std Dev 0
2
1
0
−1
−2
−3

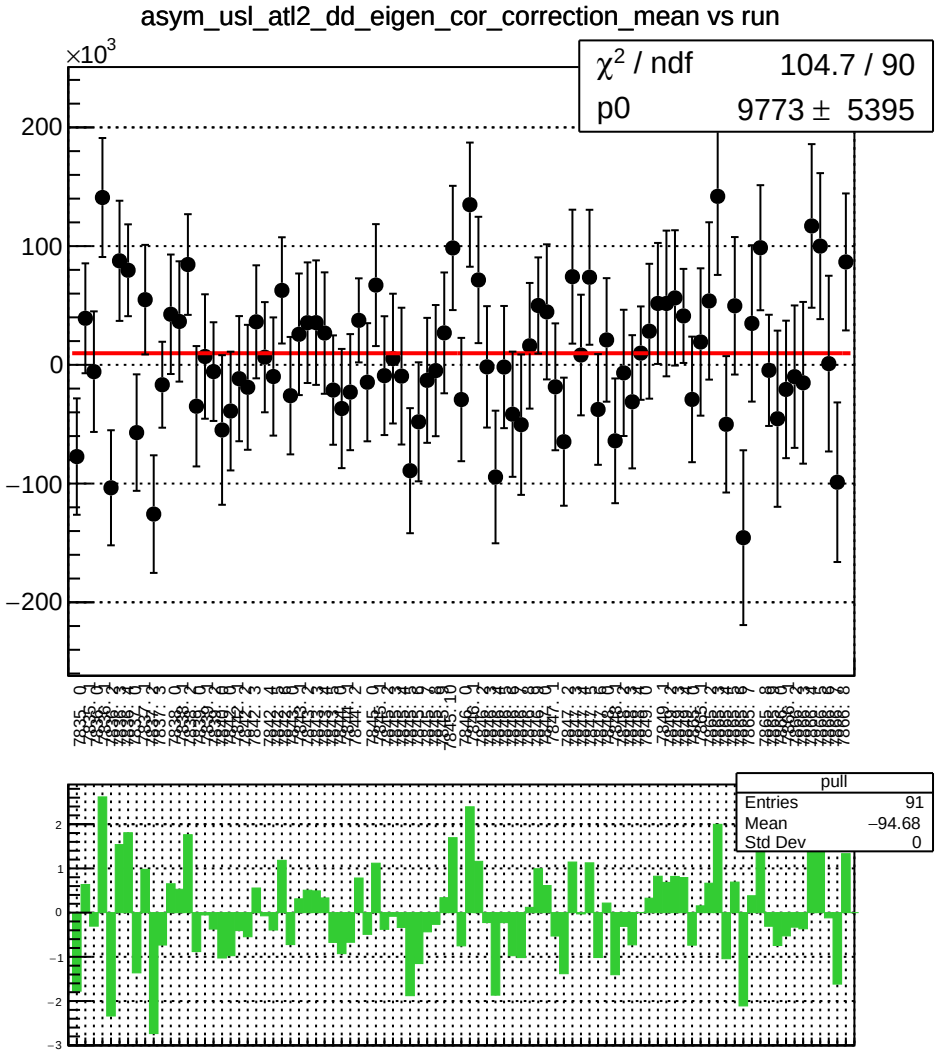

pull1D
Entries 91
Mean −0.015
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

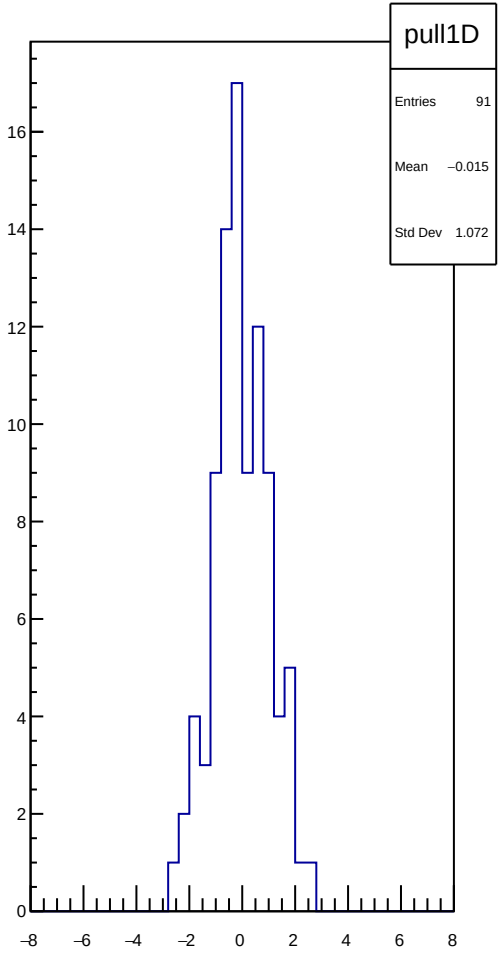

asym_usl_atl2_dd_cor_correction_rms vs run
χ^2 / ndf 1.712e+04 / 90
p0 5029 ± 3.815
7000
6500
6000
5500
5000
4500

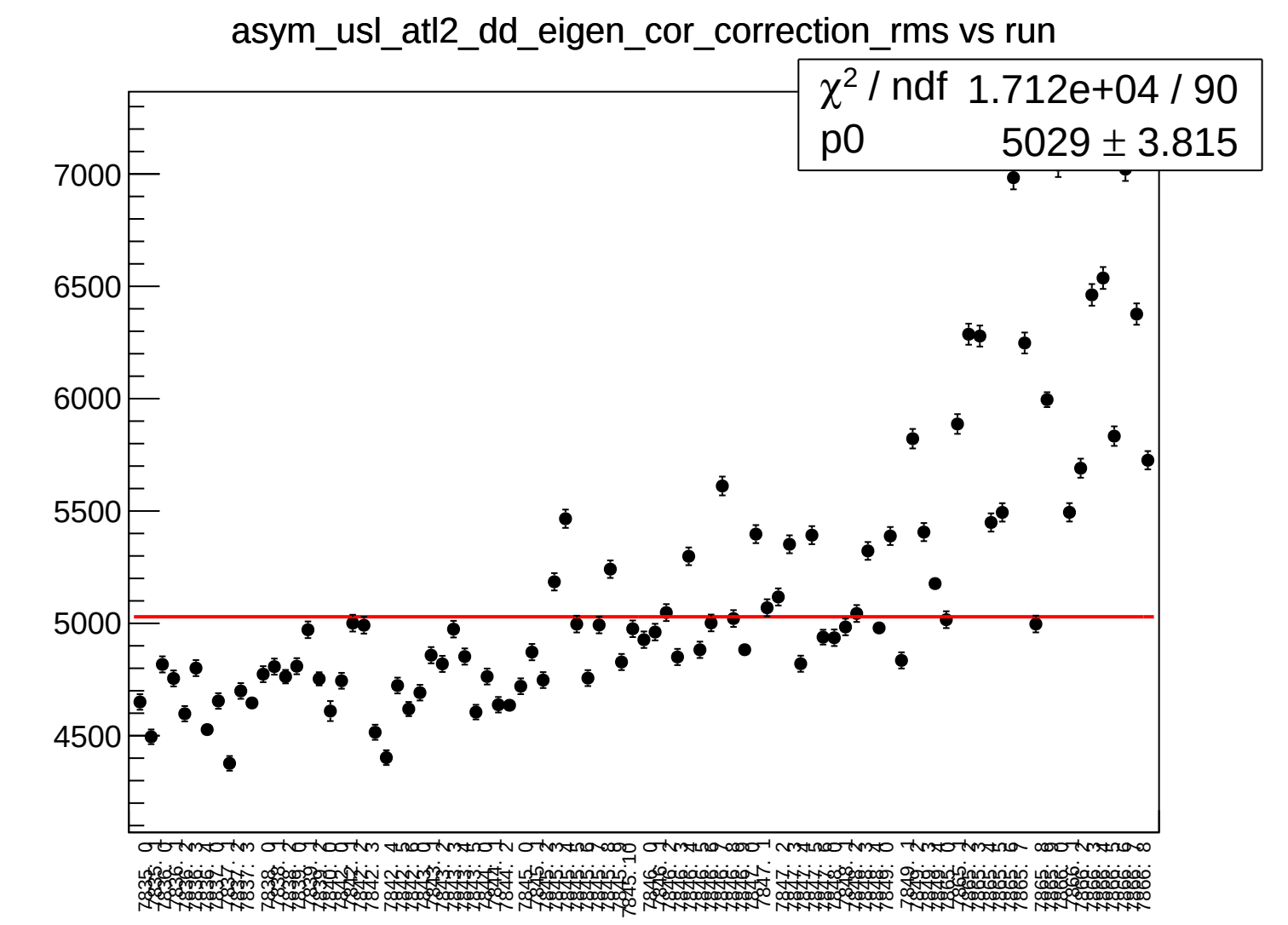

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 98.95 / 90
p0 −632 ± 1083
pull
Entries 91
Mean −457.8
Std Dev 0

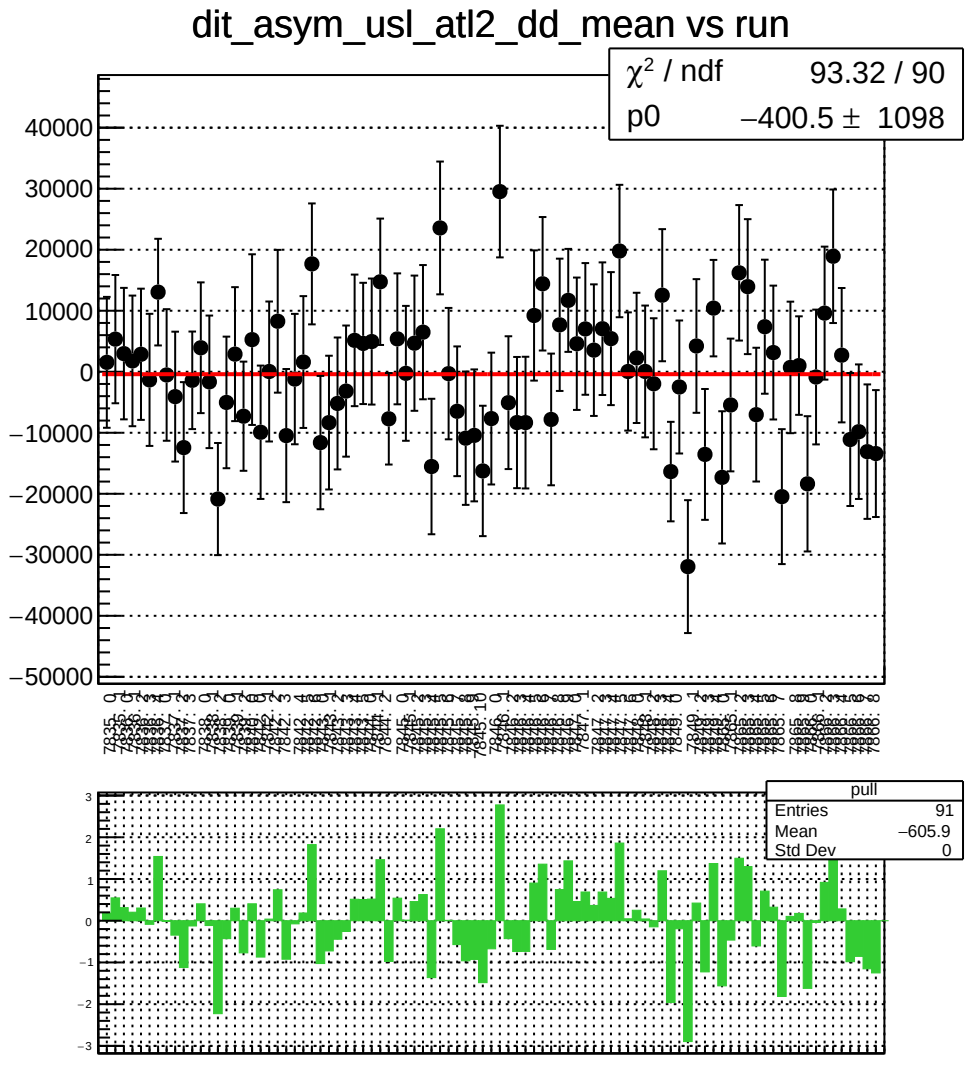

pull1D
Entries 91
Mean 0.004177
Std Dev 1.043

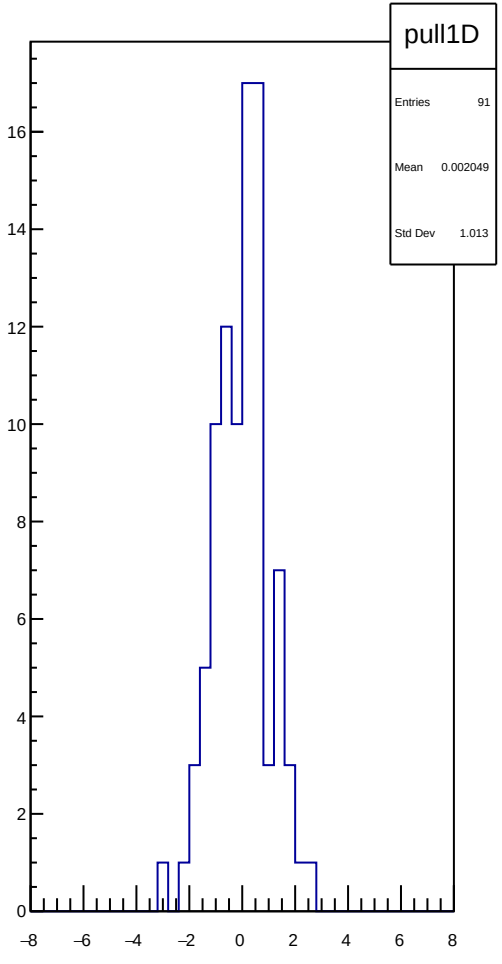

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 761.6 / 90
p0 1014 ± 0.7659
1100
1080
1060
1040
1020
1000
980
960
940
920

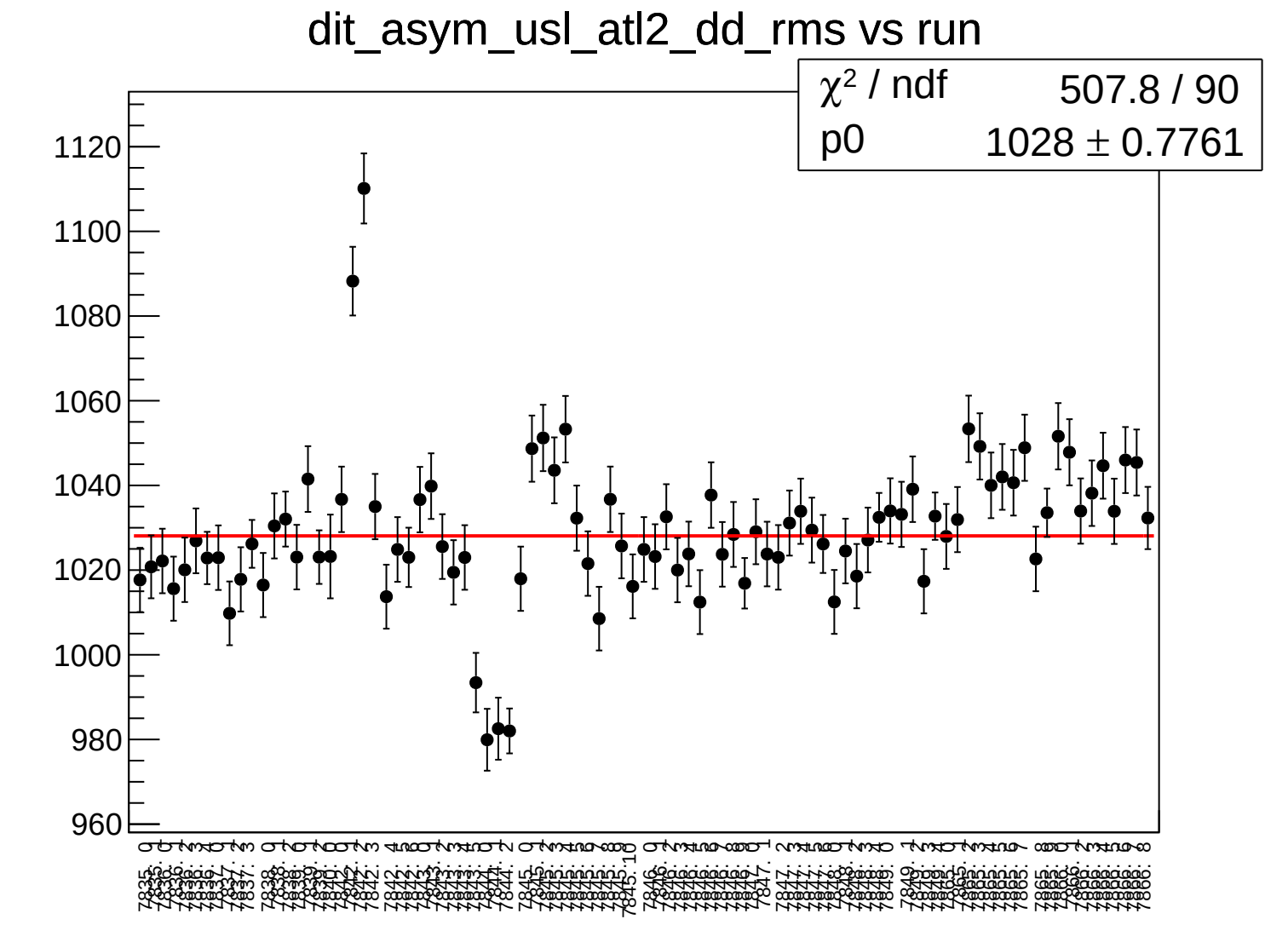

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104.7 / 90
p0 9773 ± 5395
200
100
0
−100
−200
pull
Entries 91
Mean −94.68
Std Dev 0
2
1
0
−1
−2
−3

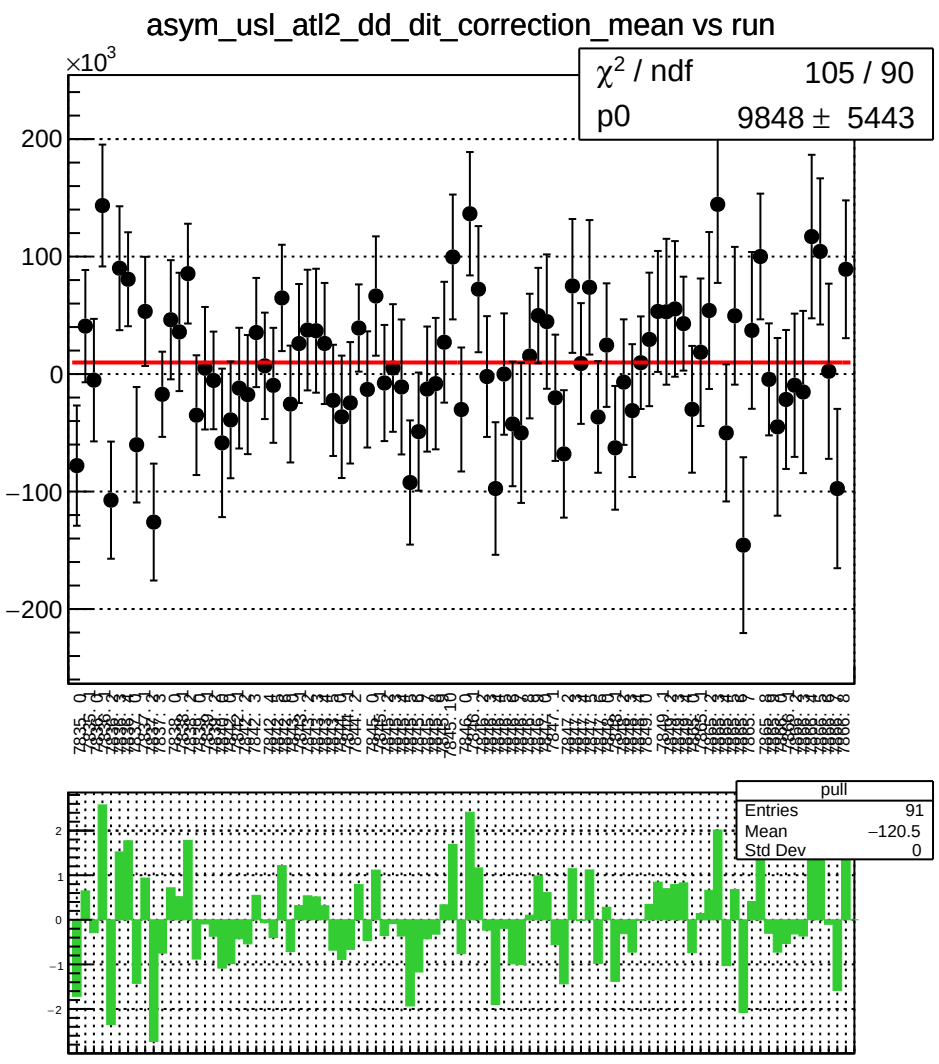

pull1D
Entries 91
Mean −0.015
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

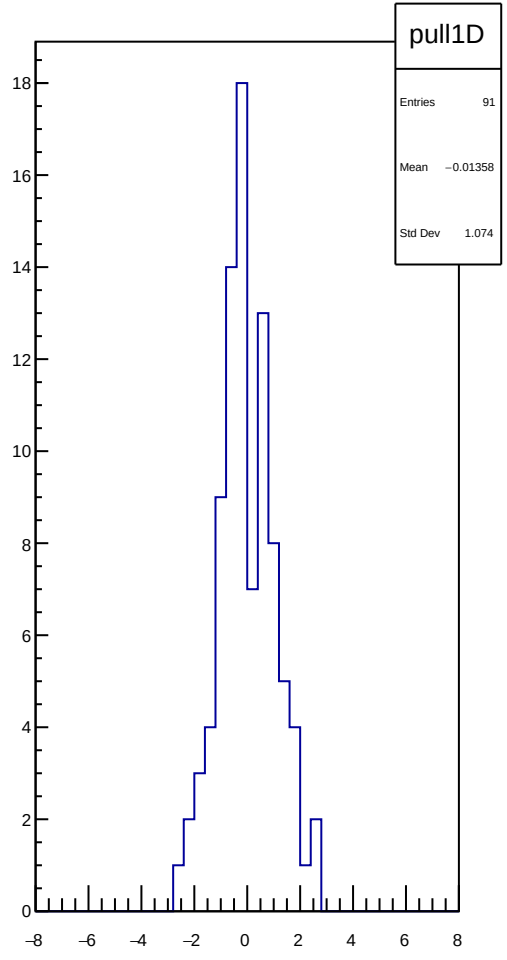

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.712e+04 / 90
p0 5029 ± 3.815
7000
6500
6000
5500
5000
4500

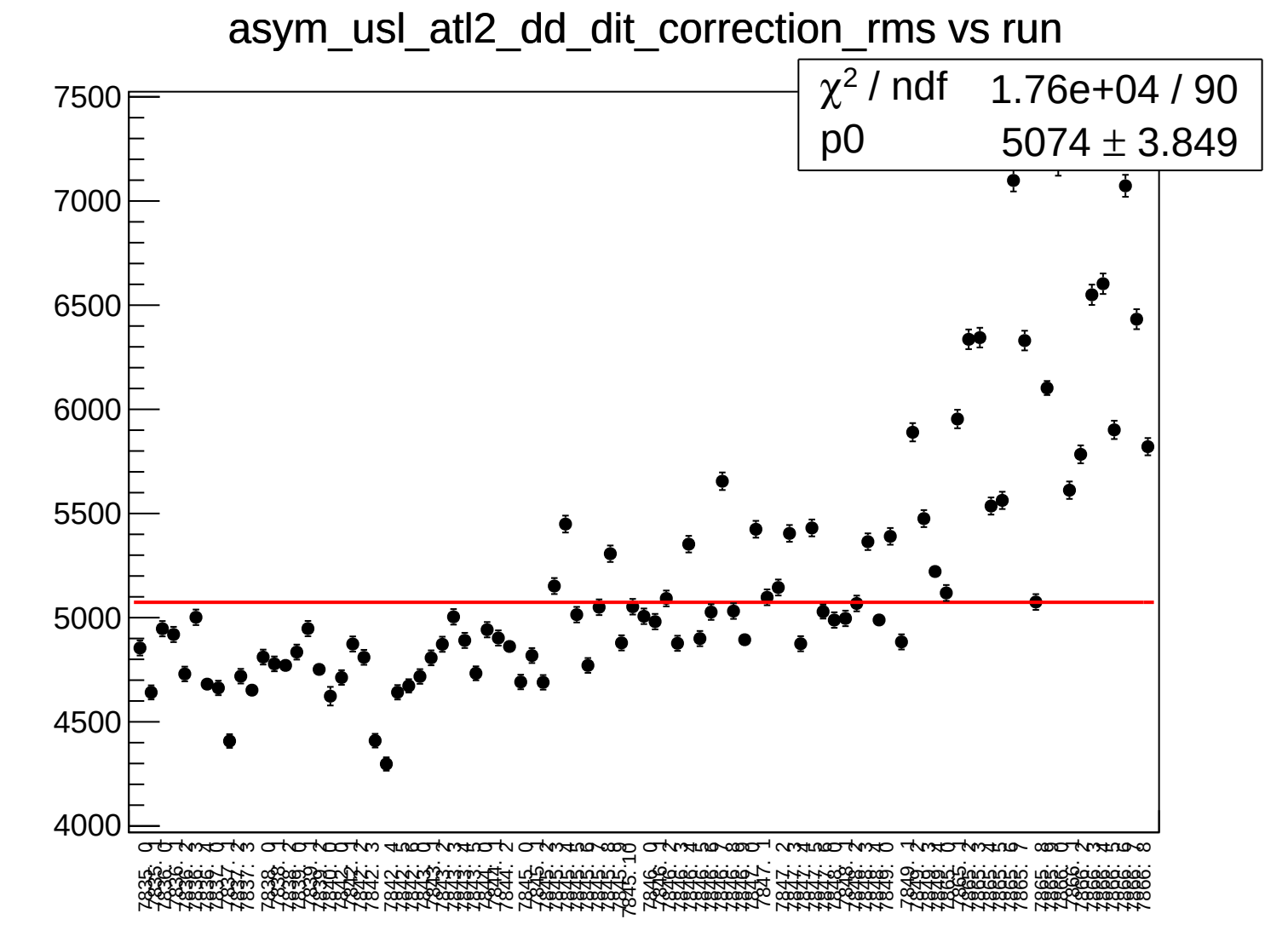

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.32 / 90
p0 −400.5 ± 1098
pull
Entries 91
Mean −605.9
Std Dev 0

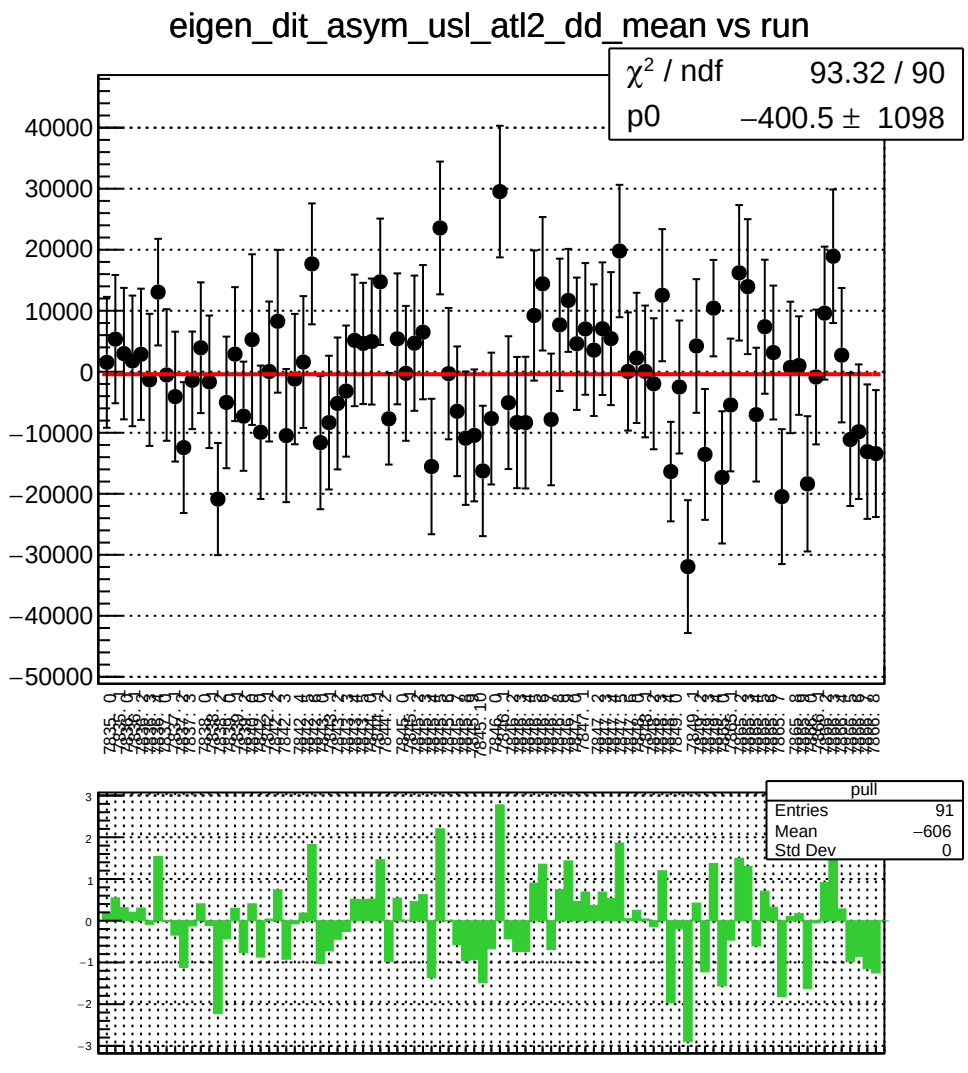

pull1D
Entries 91
Mean 0.002049
Std Dev 1.013

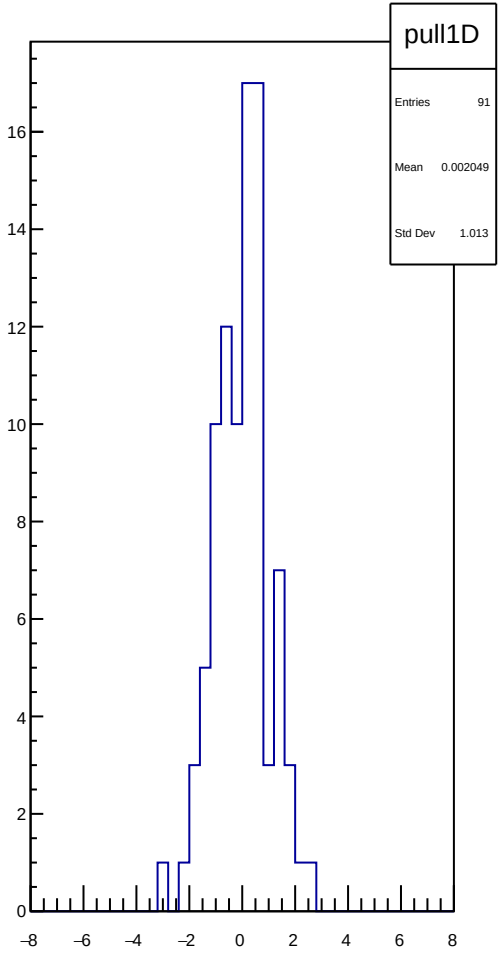

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 507.8 / 90
p0 1028 ± 0.7761
1120
1100
1080
1060
1040
1020
1000
980
960

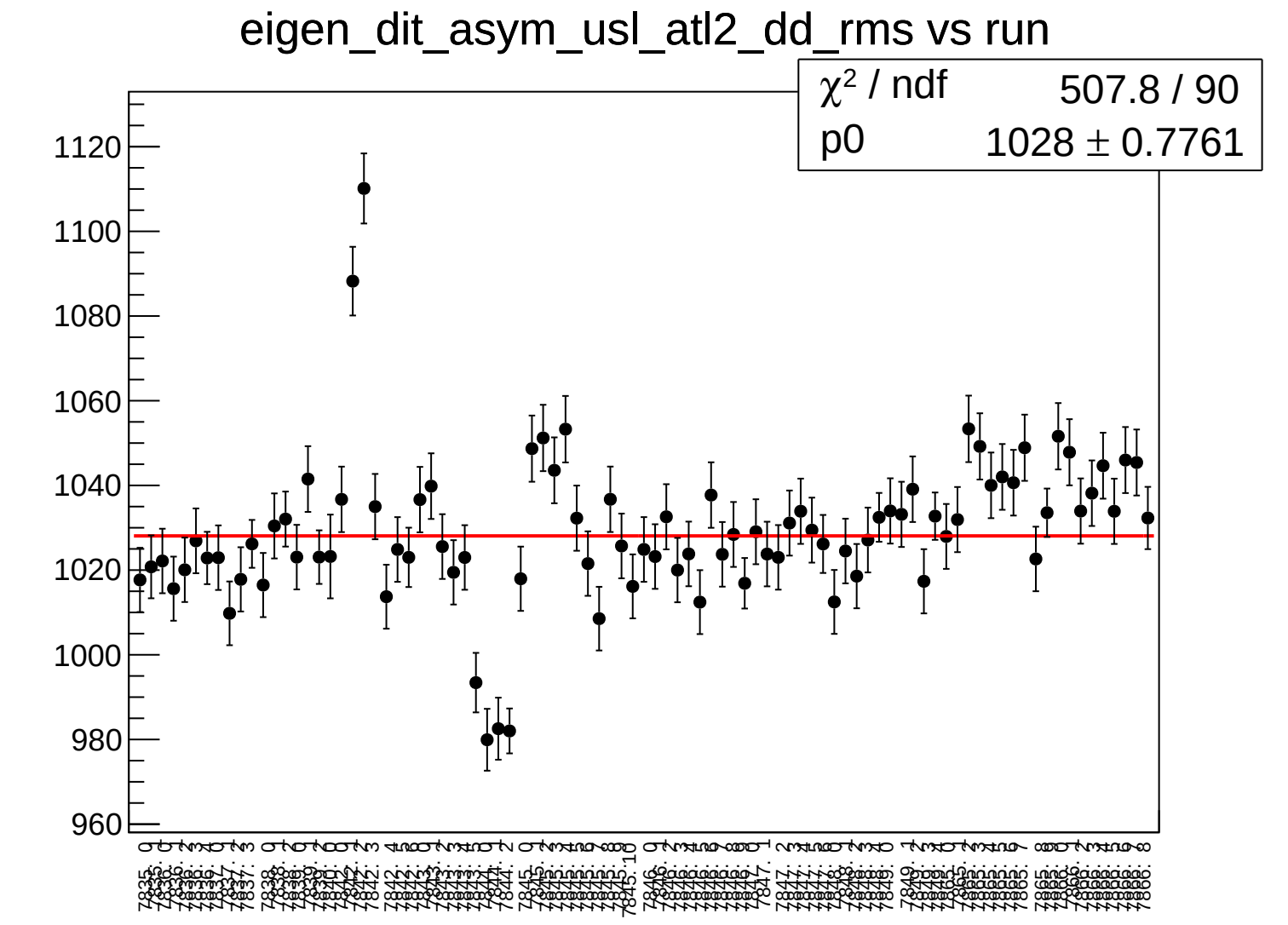

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 105 / 90
p0 9848 ± 5443
200
100
0
−100
−200
pull
Entries 91
Mean −120.5
Std Dev 0
2
1
0
−1
−2

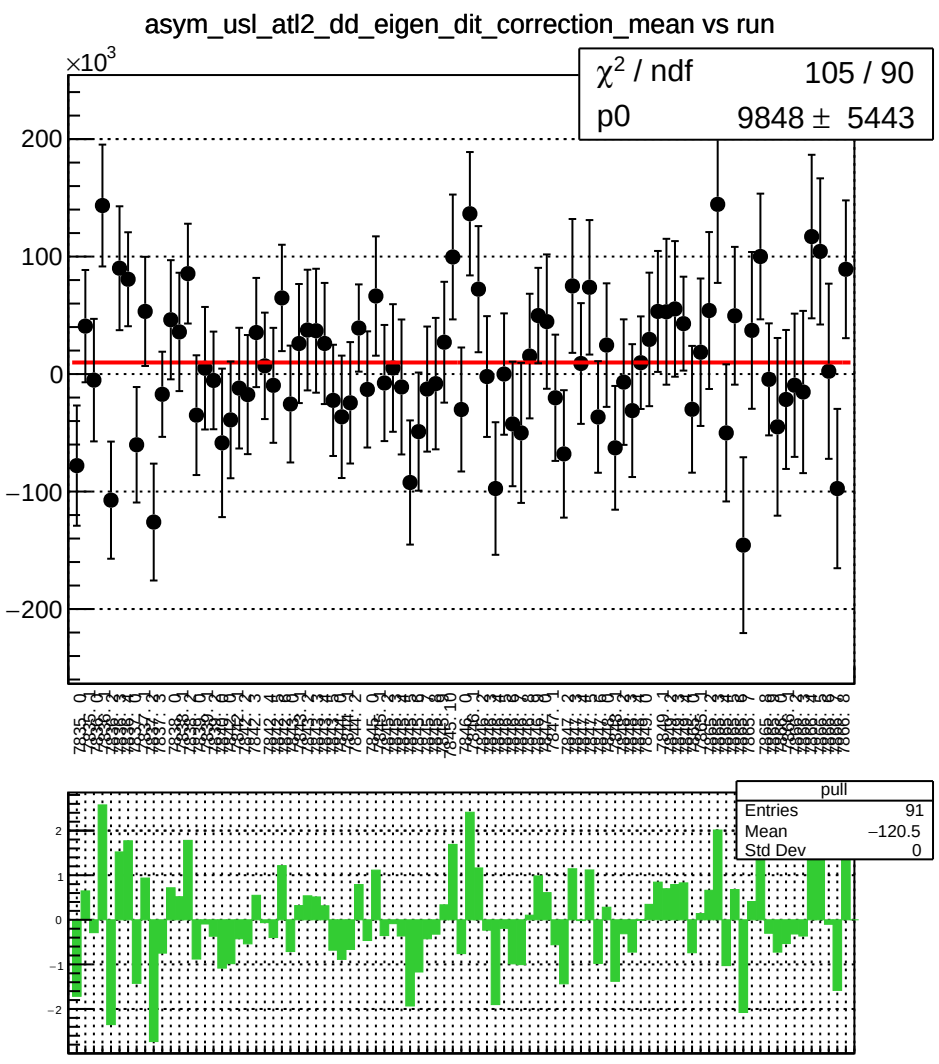

pull1D
Entries 91
Mean −0.01358
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

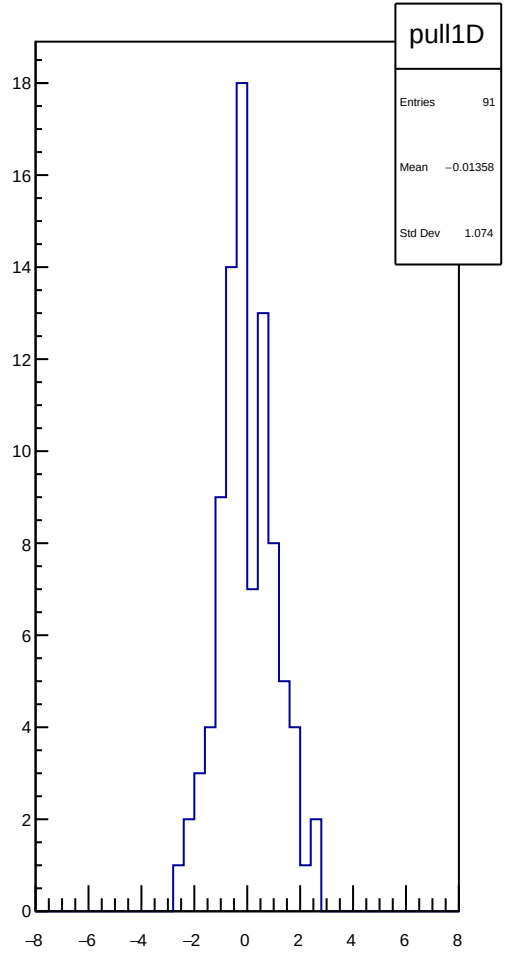

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.76e+04 / 90
p0 5074 ± 3.849
7500
7000
6500
6000
5500
5000
4500
4000

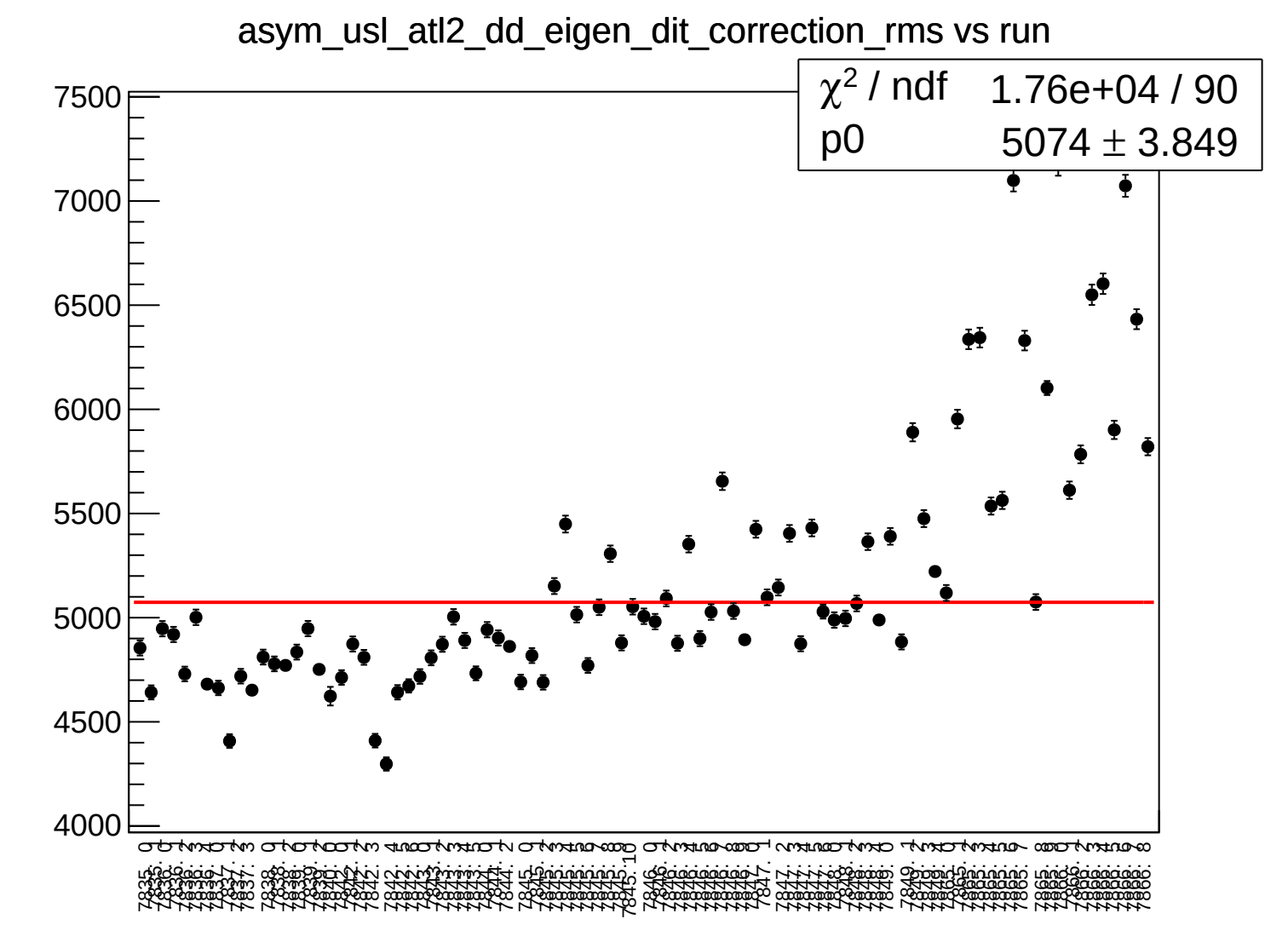

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.32 / 90
p0 −400.5 ± 1098
pull
Entries 91
Mean −606
Std Dev 0

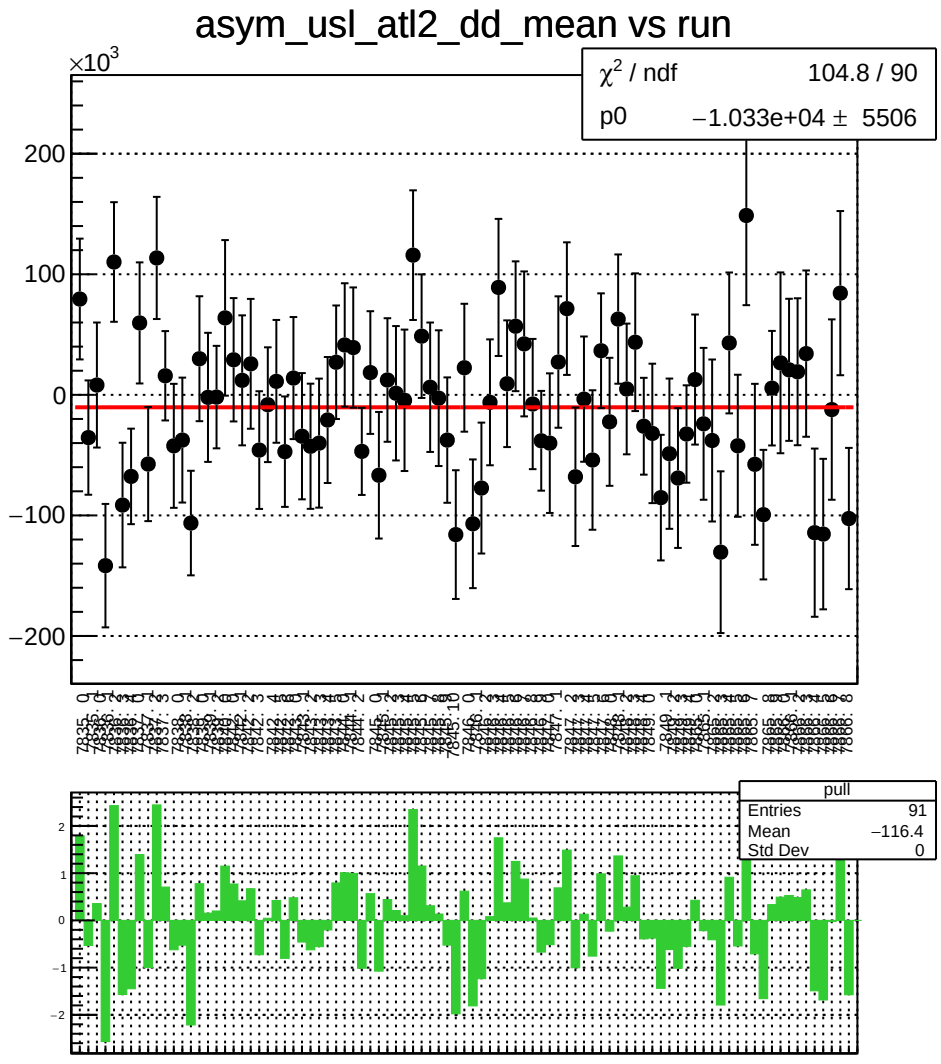

pull1D
Entries 91
Mean 0.002049
Std Dev 1.013

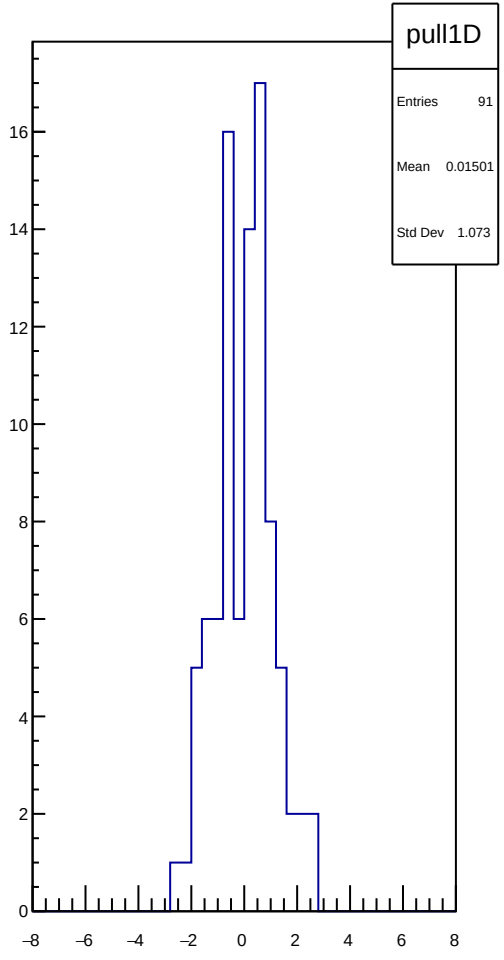

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 507.8 / 90
p0 1028 ± 0.7761
1120
1100
1080
1060
1040
1020
1000
980
960

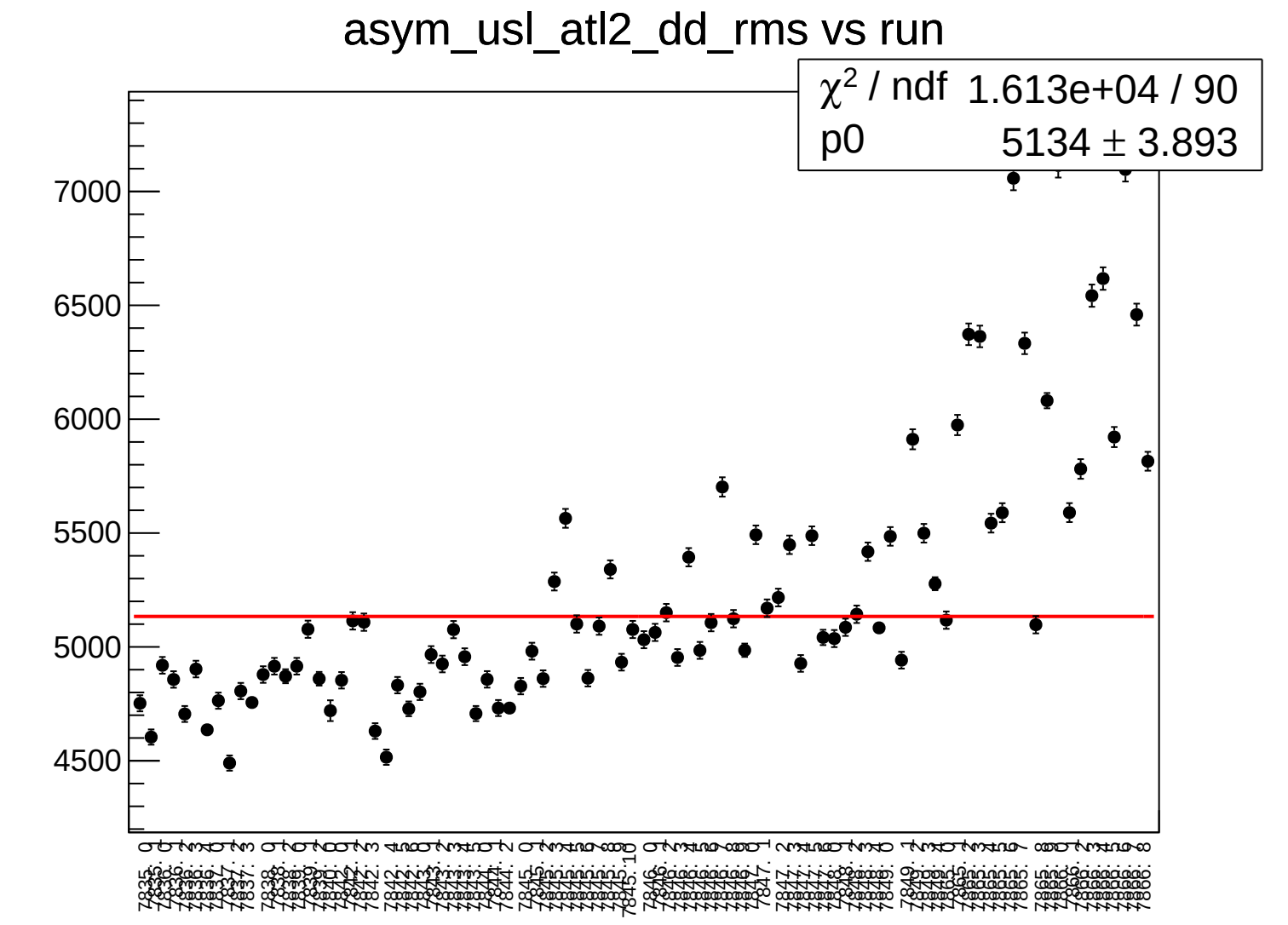

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105 / 90
p0 9848 ± 5443
200
100
0
−100
−200
pull
Entries 91
Mean −120.5
Std Dev 0
2
1
0
−1
−2

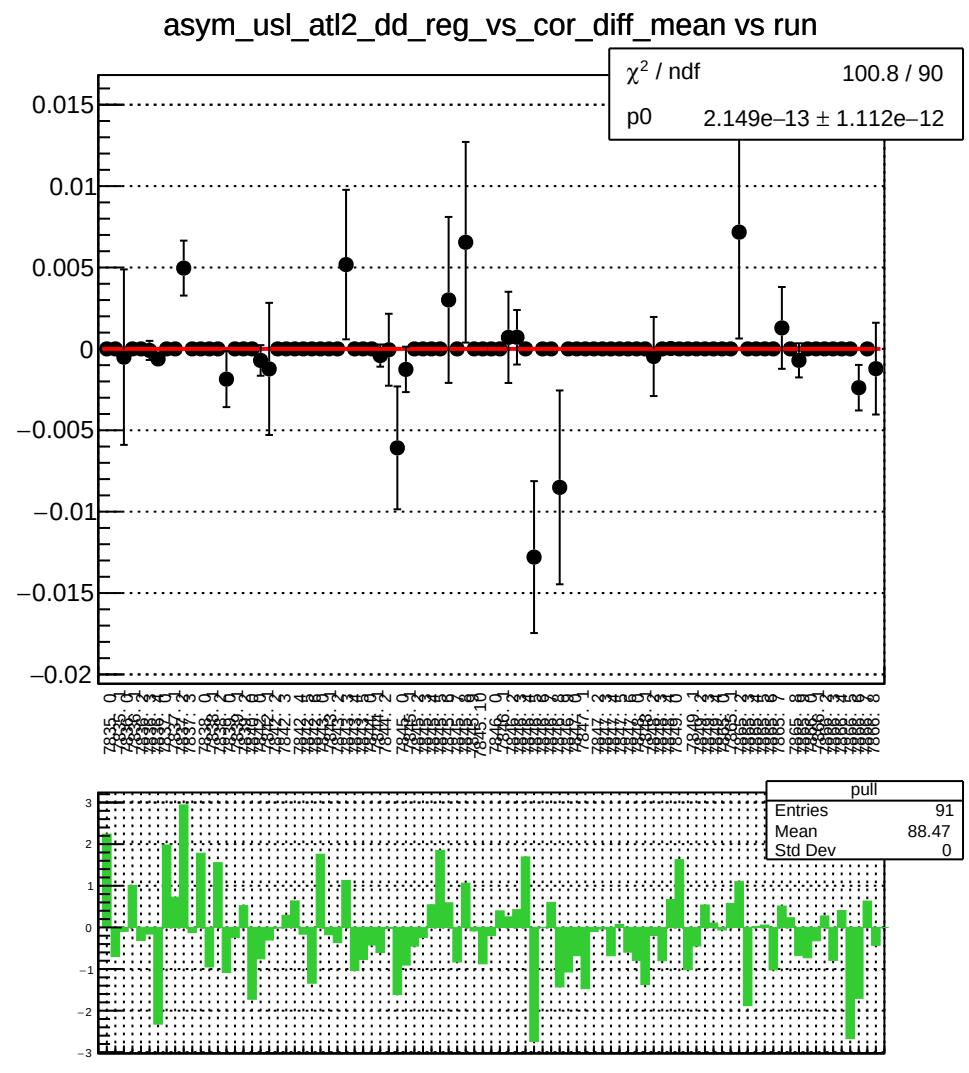

pull1D
Entries 91
Mean −0.01358
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

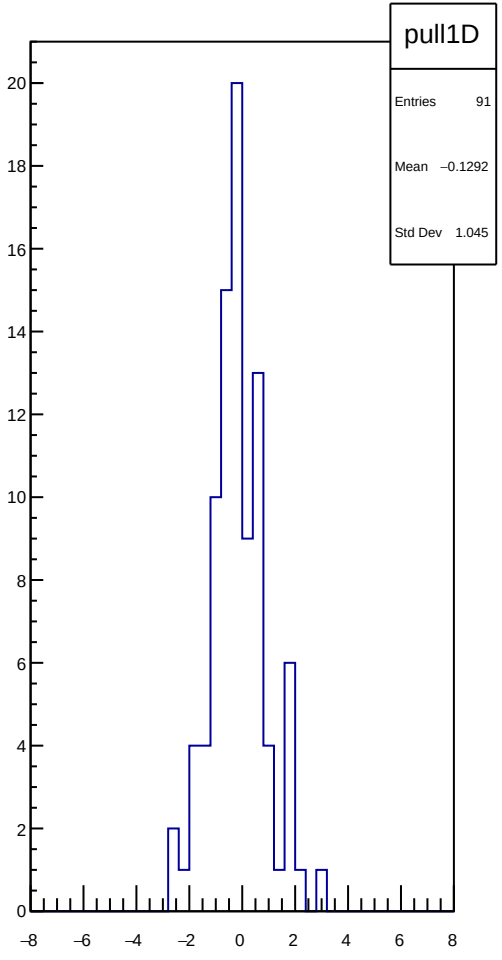

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.76e+04 / 90
p0 5074 ± 3.849
7500
7000
6500
6000
5500
5000
4500
4000

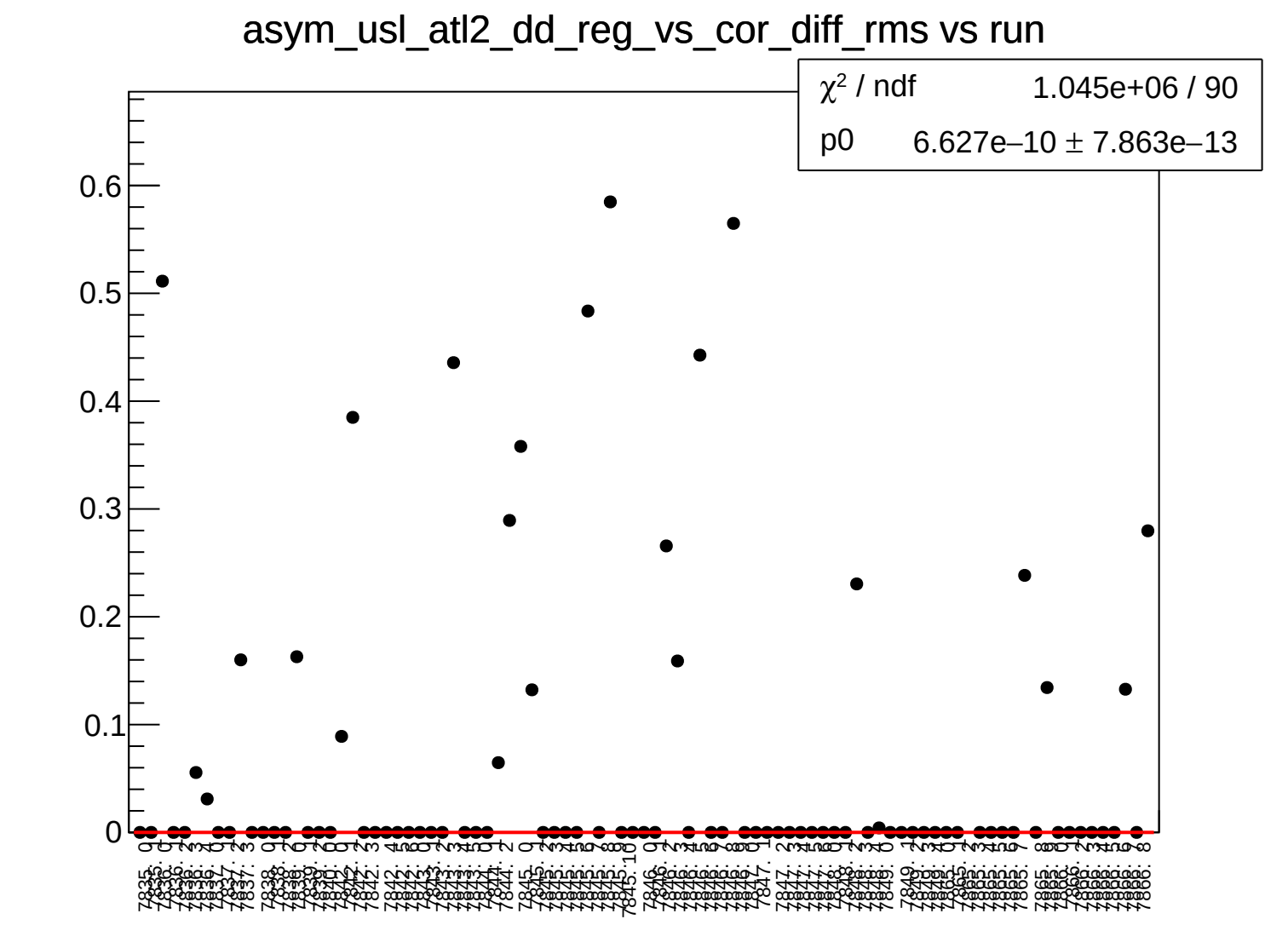

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 104.8 / 90
p0 −1.033e+04 ± 5506
200
100
0
−100
−200
pull
Entries 91
Mean −116.4
Std Dev 0
2
1
0
−1
−2

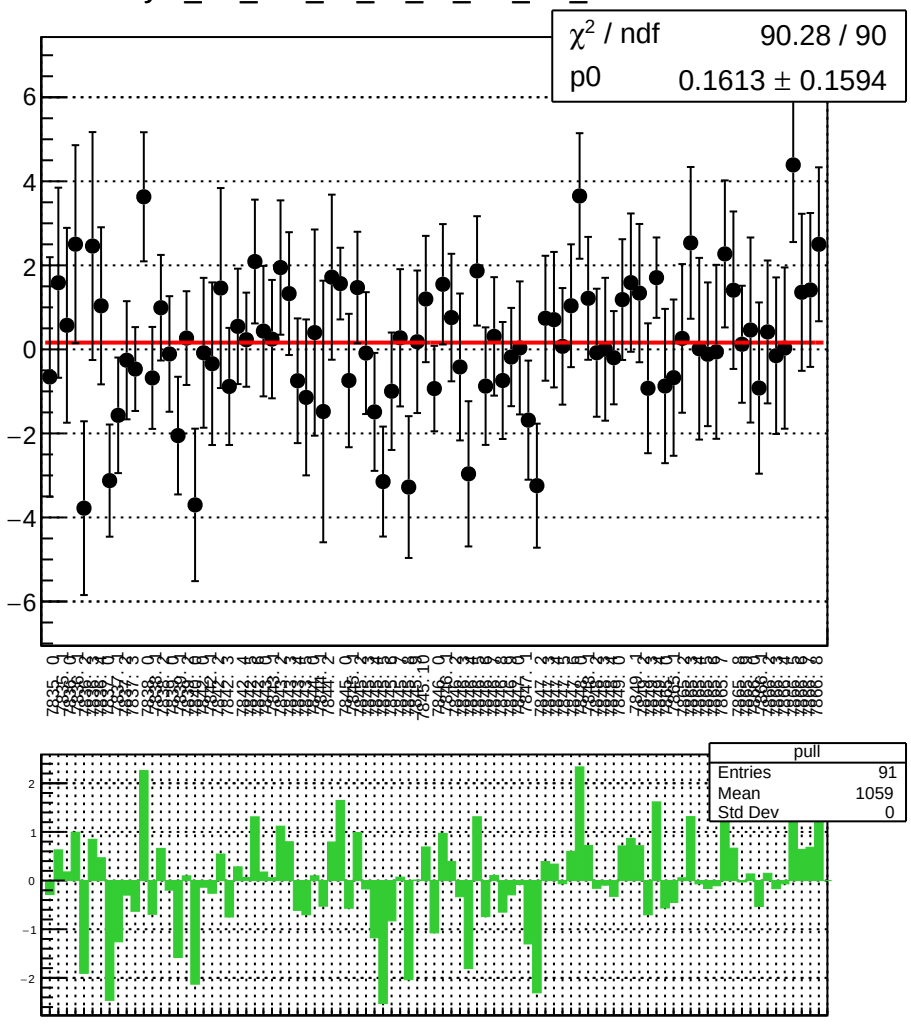

pull1D
Entries 91
Mean 0.01501
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

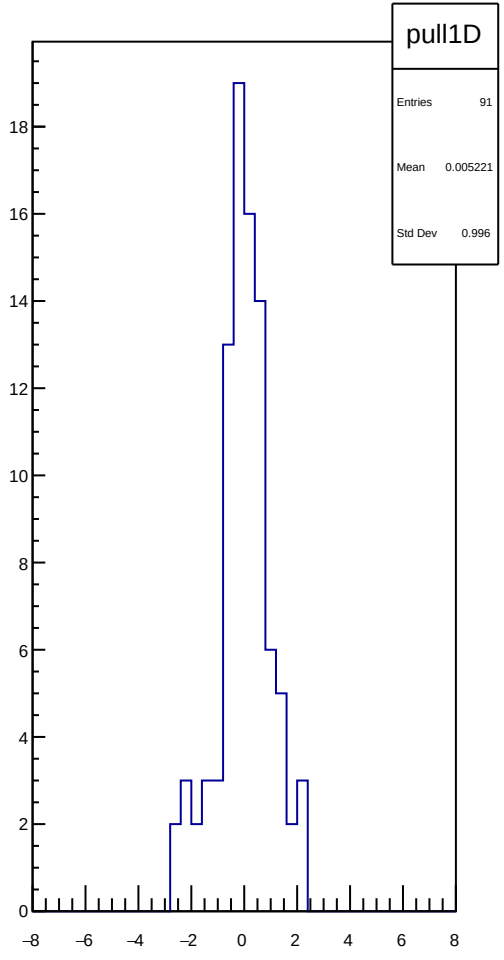

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.613e+04 / 90
p0 5134 ± 3.893
7000
6500
6000
5500
5000
4500

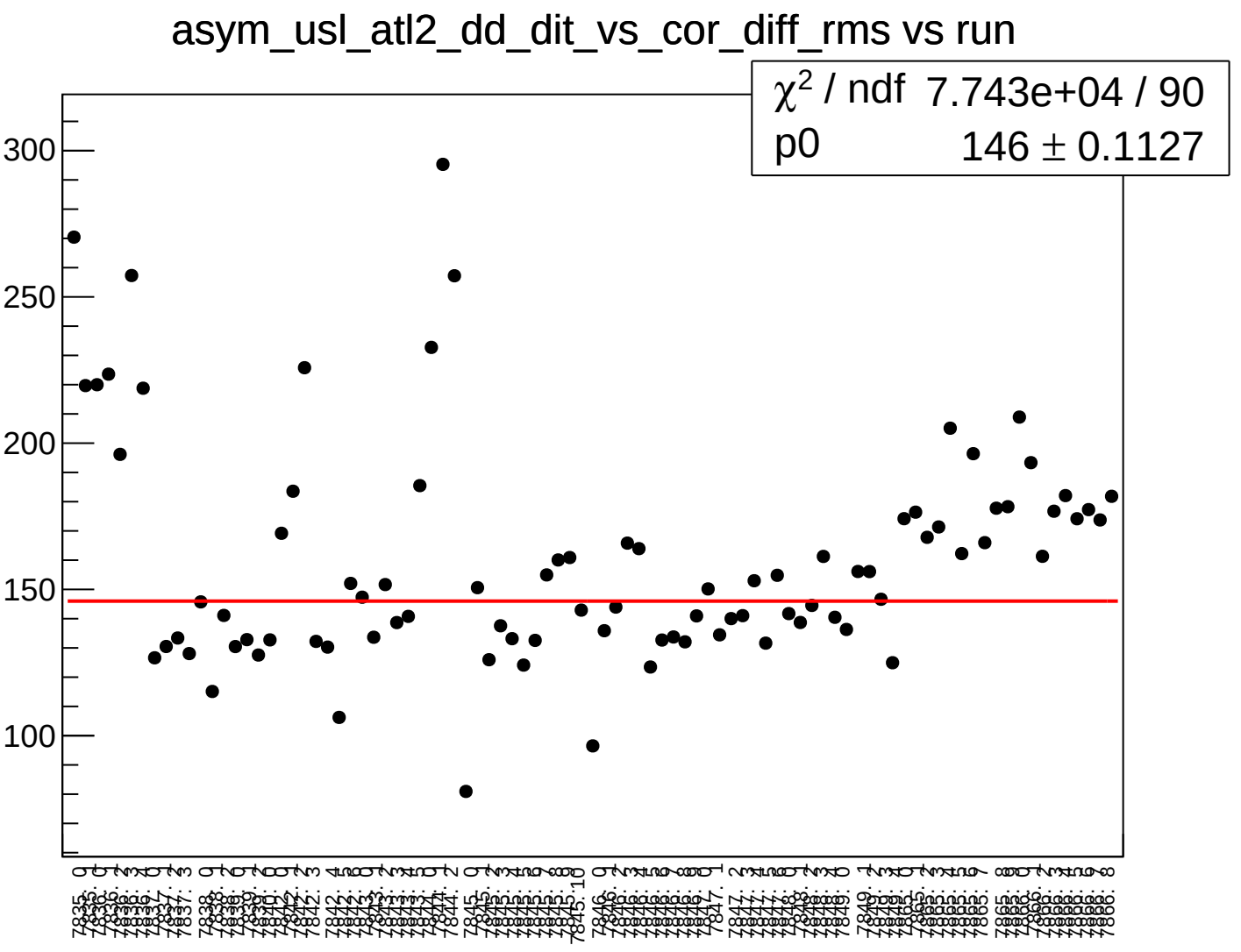

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 90
p0 2.149e−13 ± 1.112e−12
pull
Entries 91
Mean 88.47
Std Dev 0

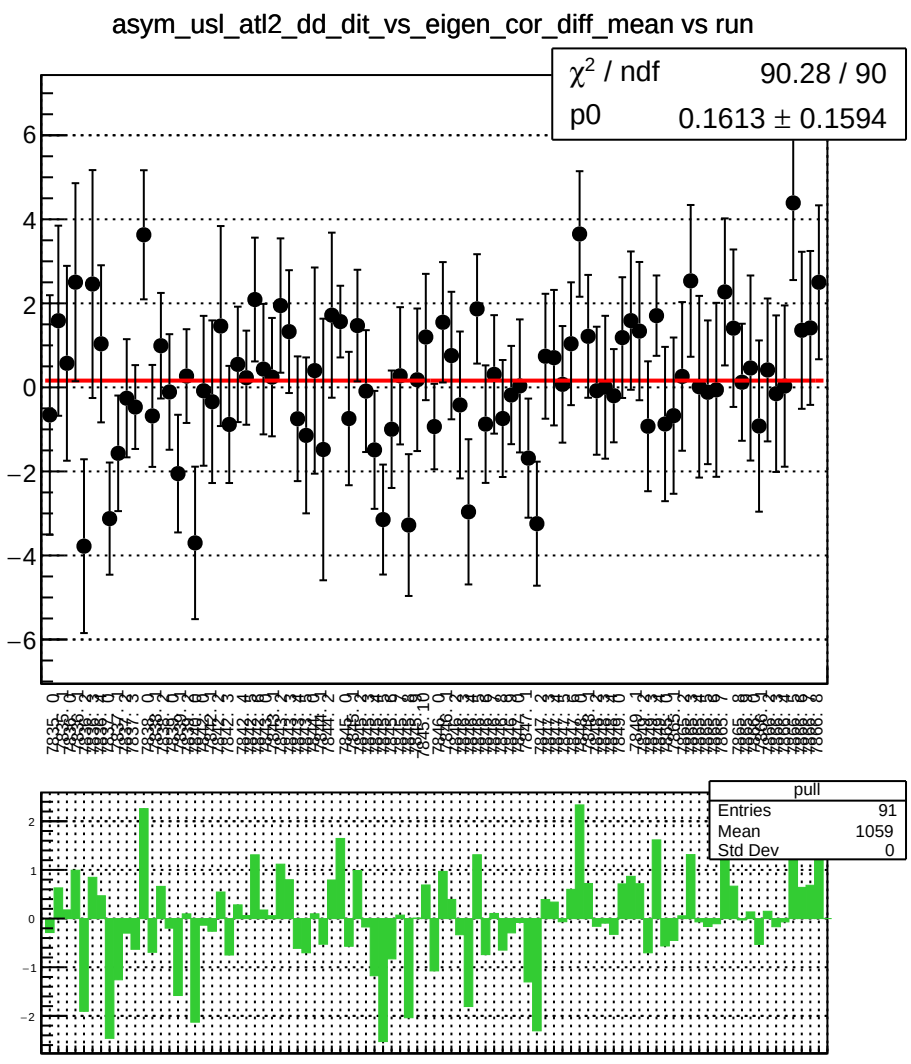

pull1D
Entries 91
Mean −0.1292
Std Dev 1.045

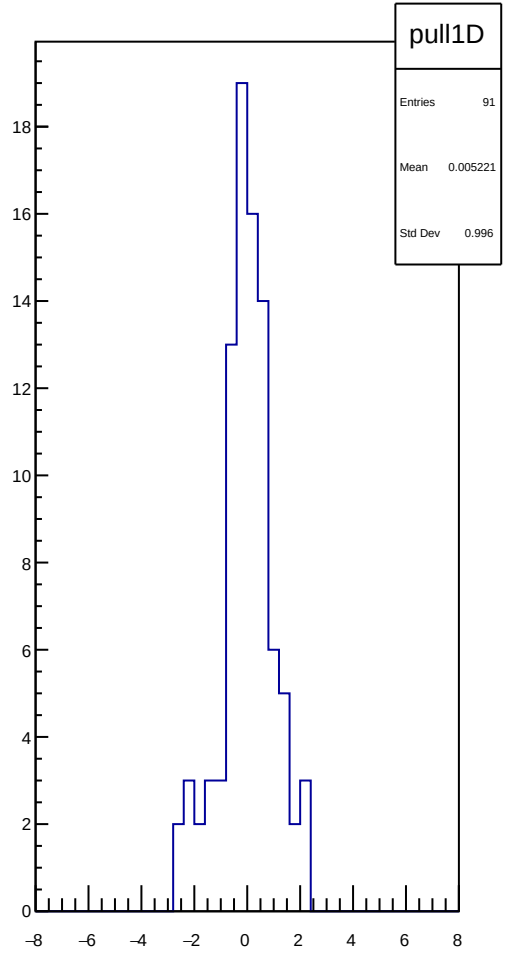

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 90
p0 6.627e−10 ± 7.863e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

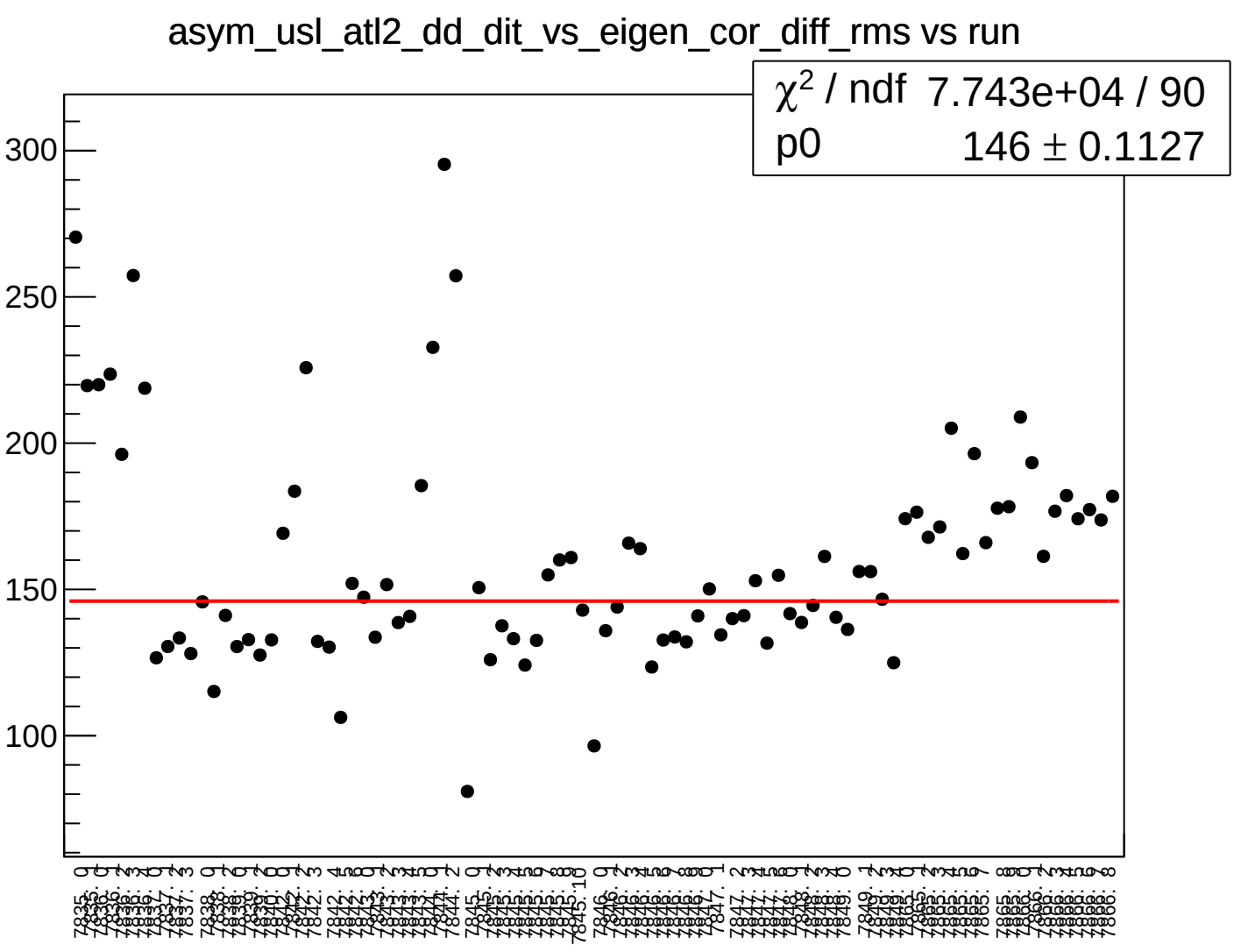

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 90
p0 0.1613 ± 0.1594
pull
Entries 91
Mean 1059
Std Dev 0

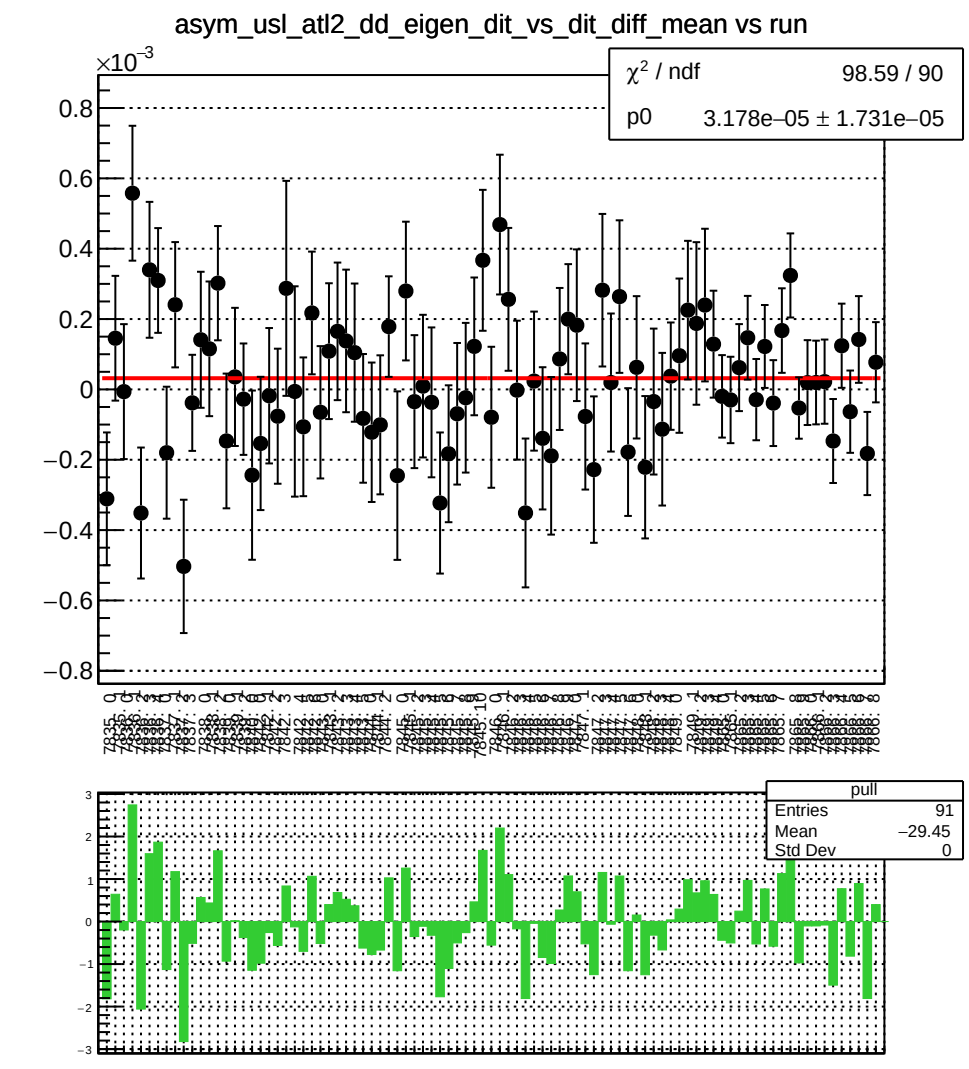

pull1D
Entries 91
Mean 0.005221
Std Dev 0.996

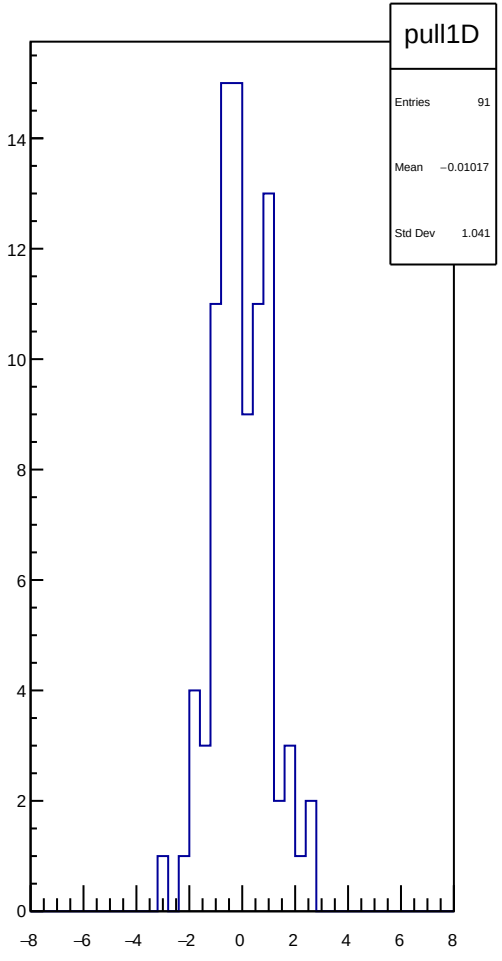

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.743e+04 / 90
p0 146 ± 0.1127
300
250
200
150
100

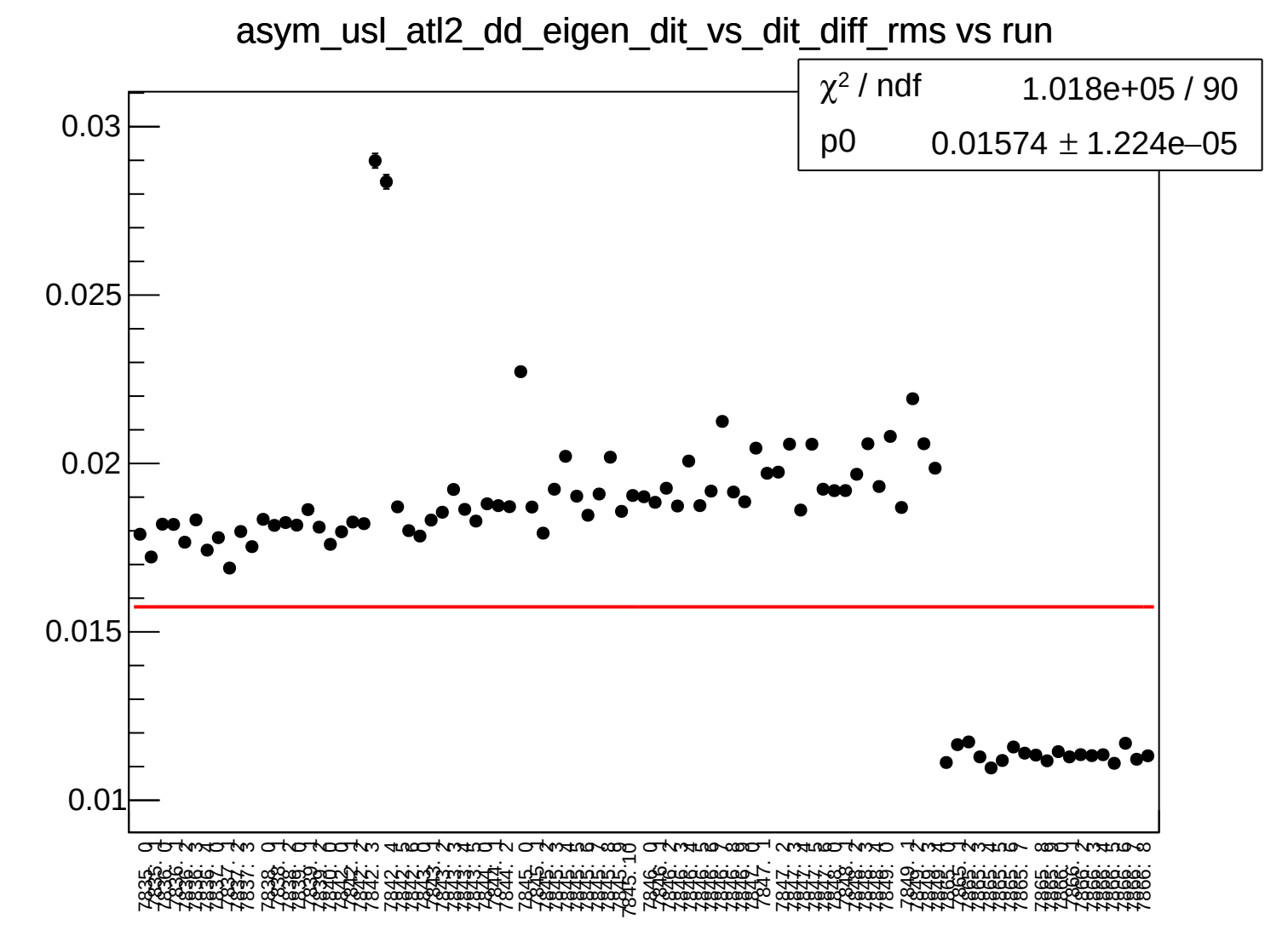

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.28 / 90
p0 0.1613 ± 0.1594
pull
Entries 91
Mean 1059
Std Dev 0

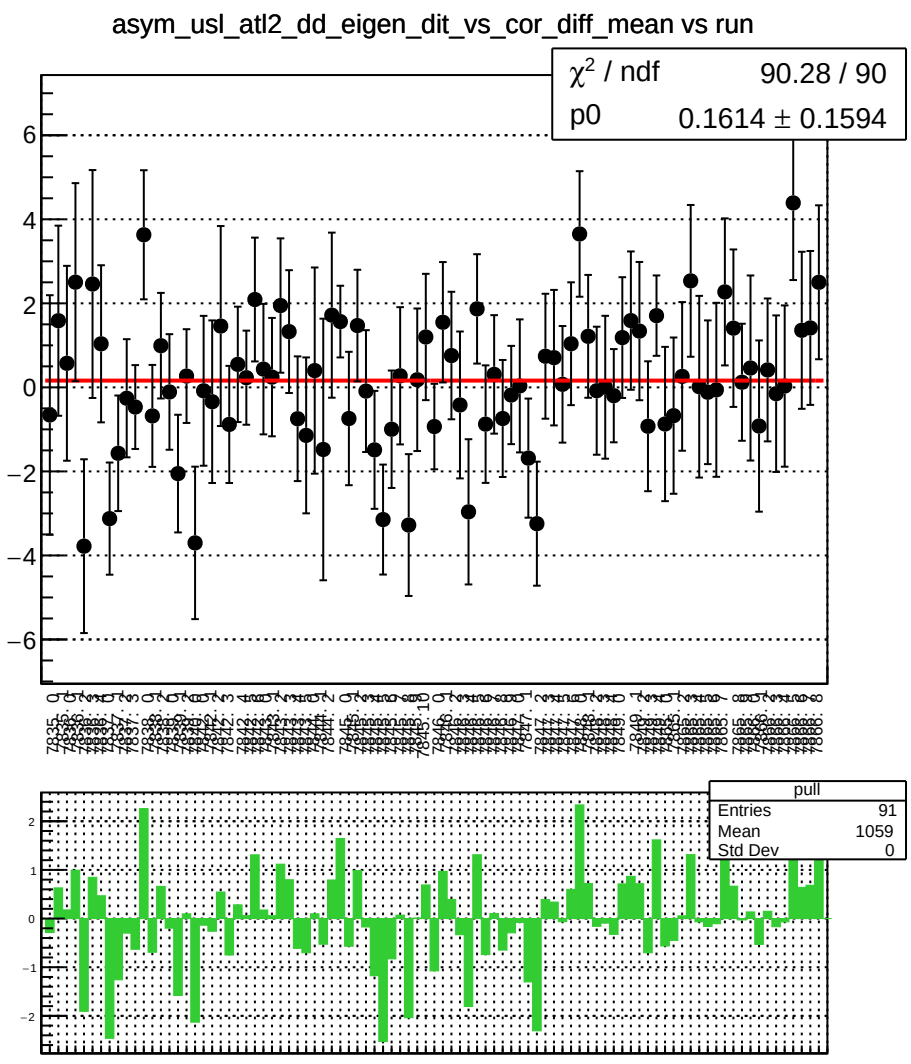

pull1D
Entries 91
Mean 0.005221
Std Dev 0.996

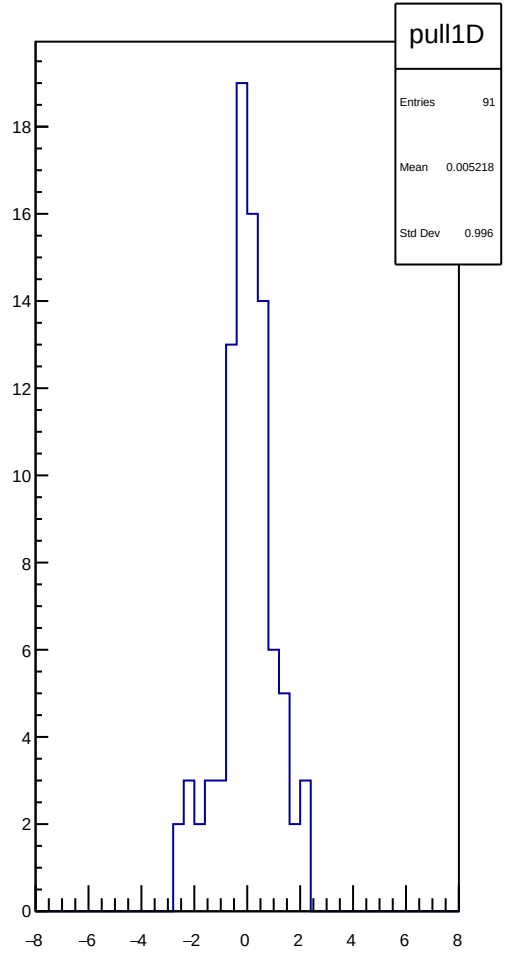

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.743e+04 / 90
p0 146 ± 0.1127
300
250
200
150
100

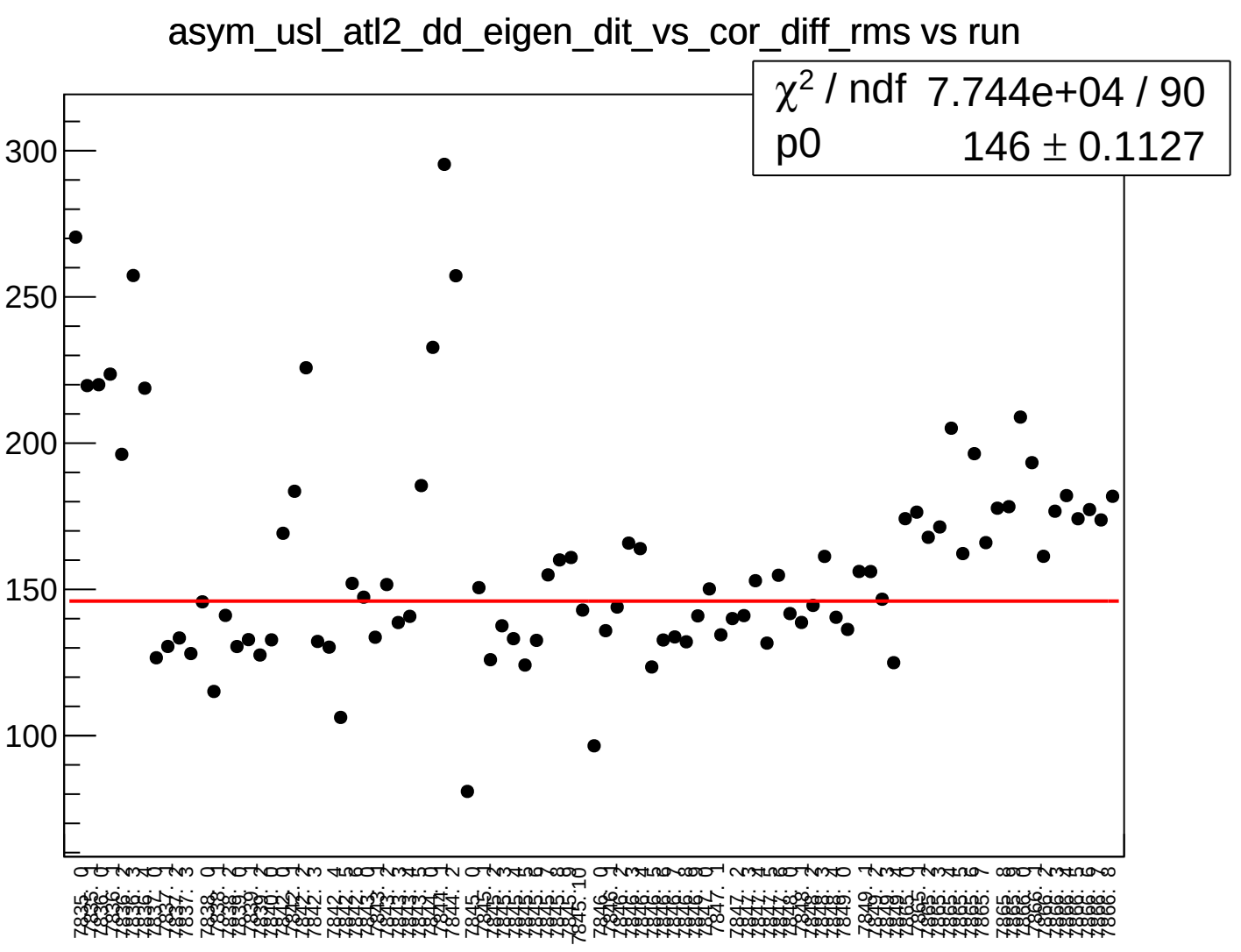

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.59 / 90
p0 3.178e−05 ± 1.731e−05
pull
Entries 91
Mean −29.45
Std Dev 0

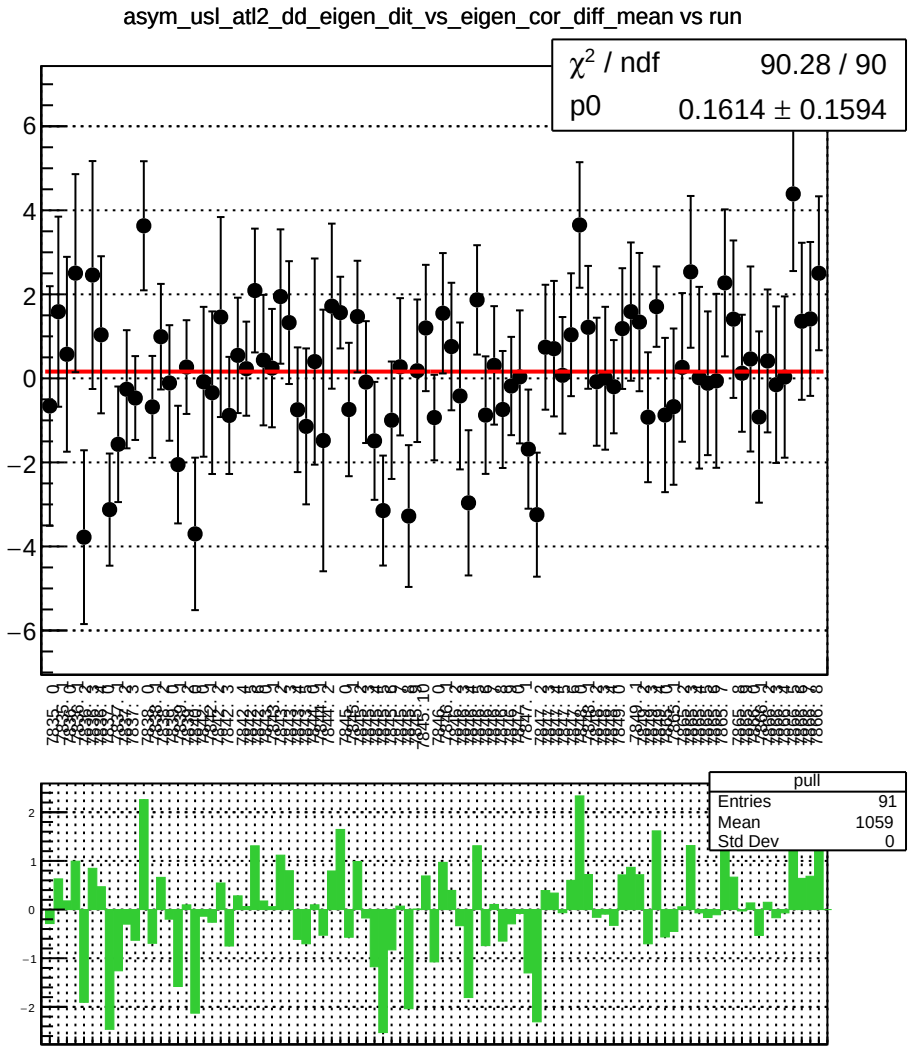

pull1D
Entries 91
Mean −0.01017
Std Dev 1.041

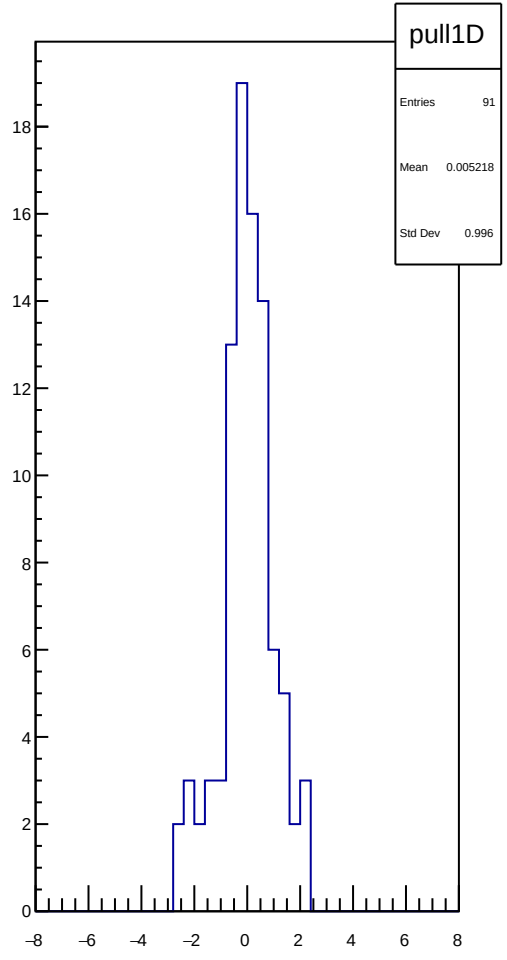

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.018e+05 / 90
p0 0.01574 ± 1.224e−05
0.03
0.025
0.02
0.015
0.01

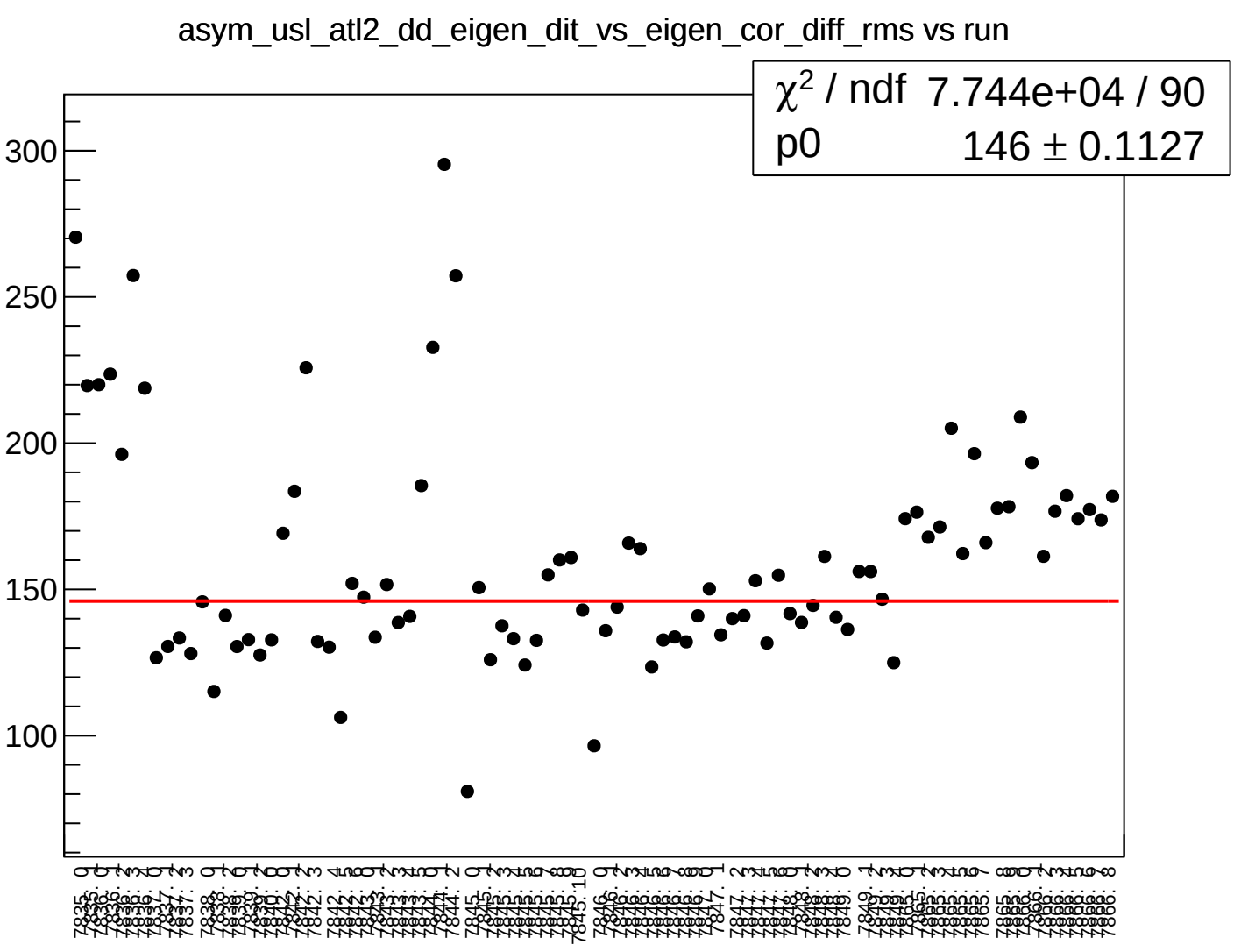

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 90
p0 0.1614 ± 0.1594
pull
Entries 91
Mean 1059
Std Dev 0

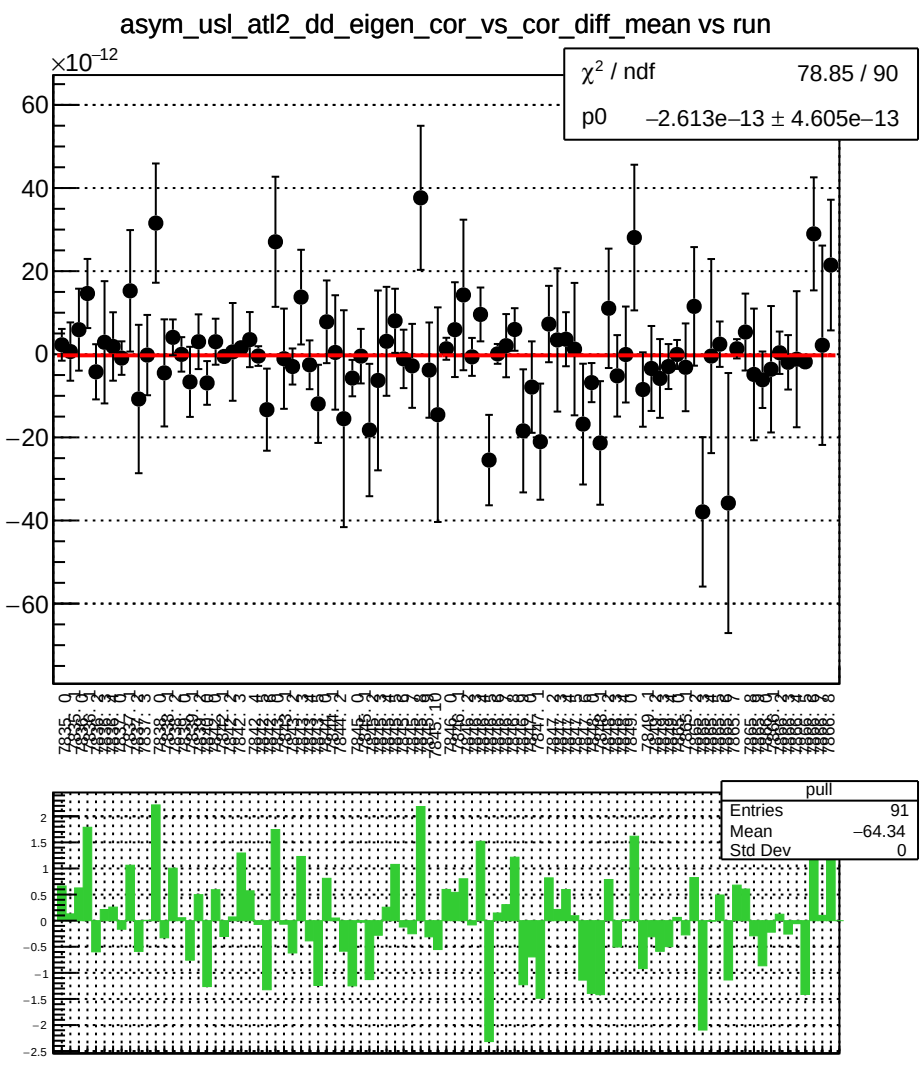

pull1D
Entries 91
Mean 0.005218
Std Dev 0.996

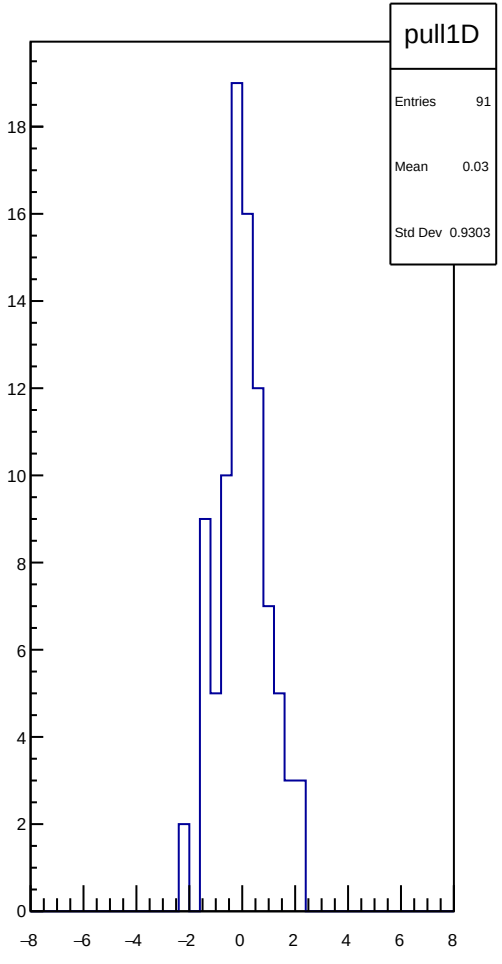

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.744e+04 / 90
p0 146 ± 0.1127
300
250
200
150
100

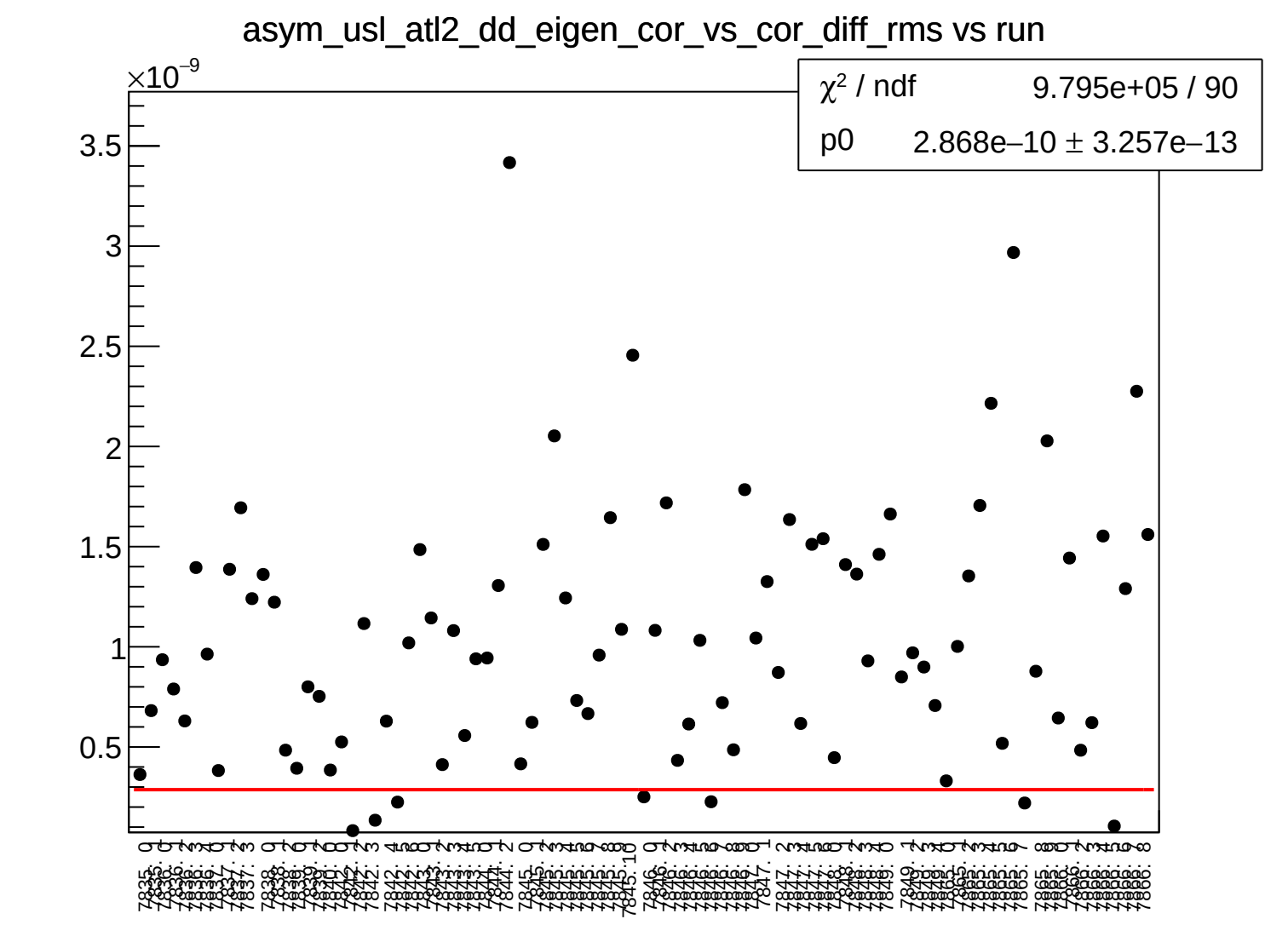

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.28 / 90
p0 0.1614 ± 0.1594
pull
Entries 91
Mean 1059
Std Dev 0

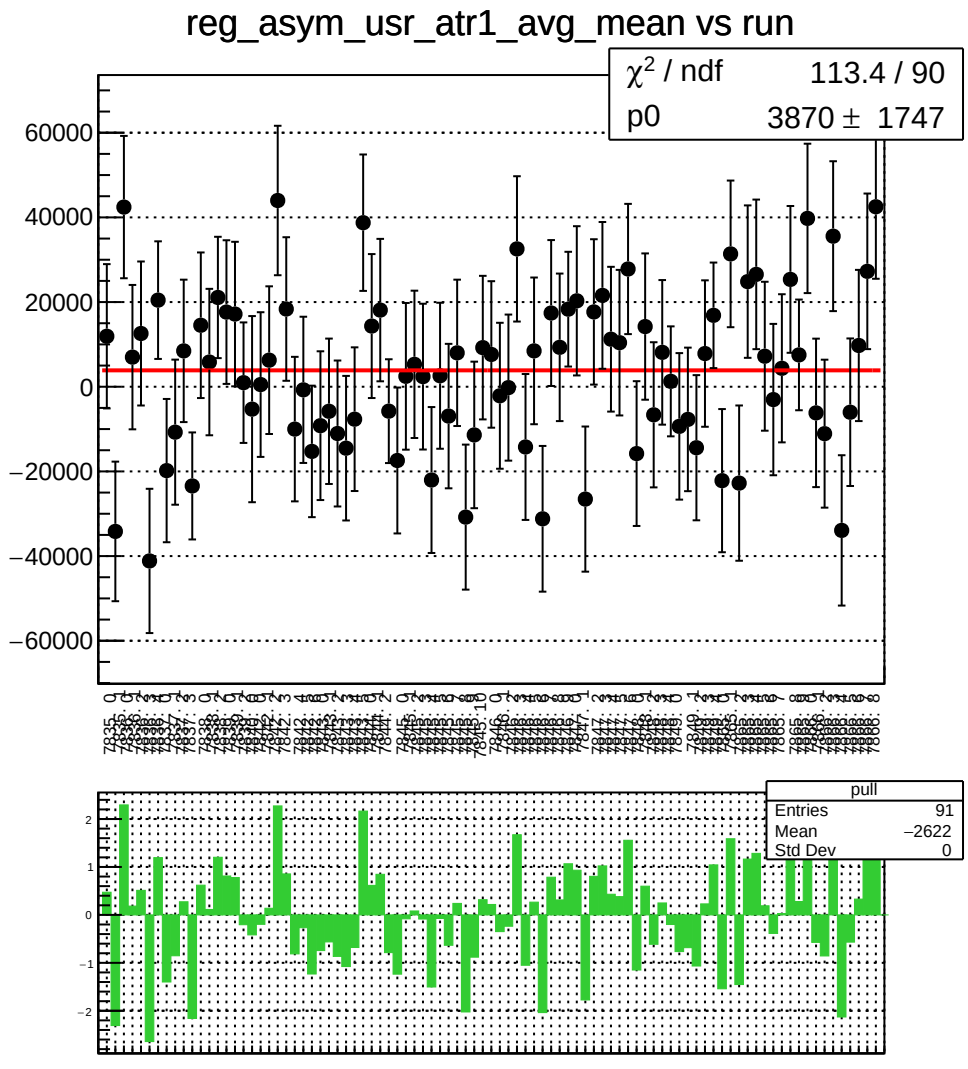

pull1D
Entries 91
Mean 0.005218
Std Dev 0.996

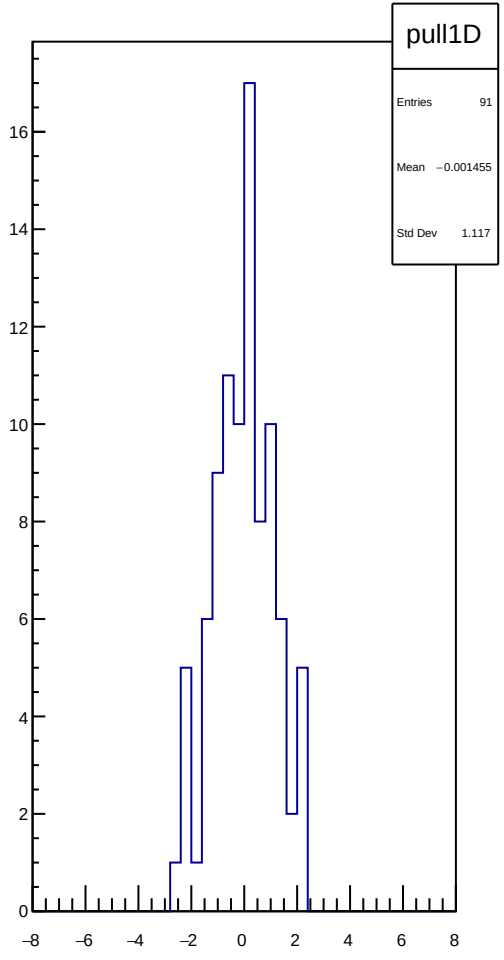

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.744e+04 / 90
p0 146 ± 0.1127
300
250
200
150
100

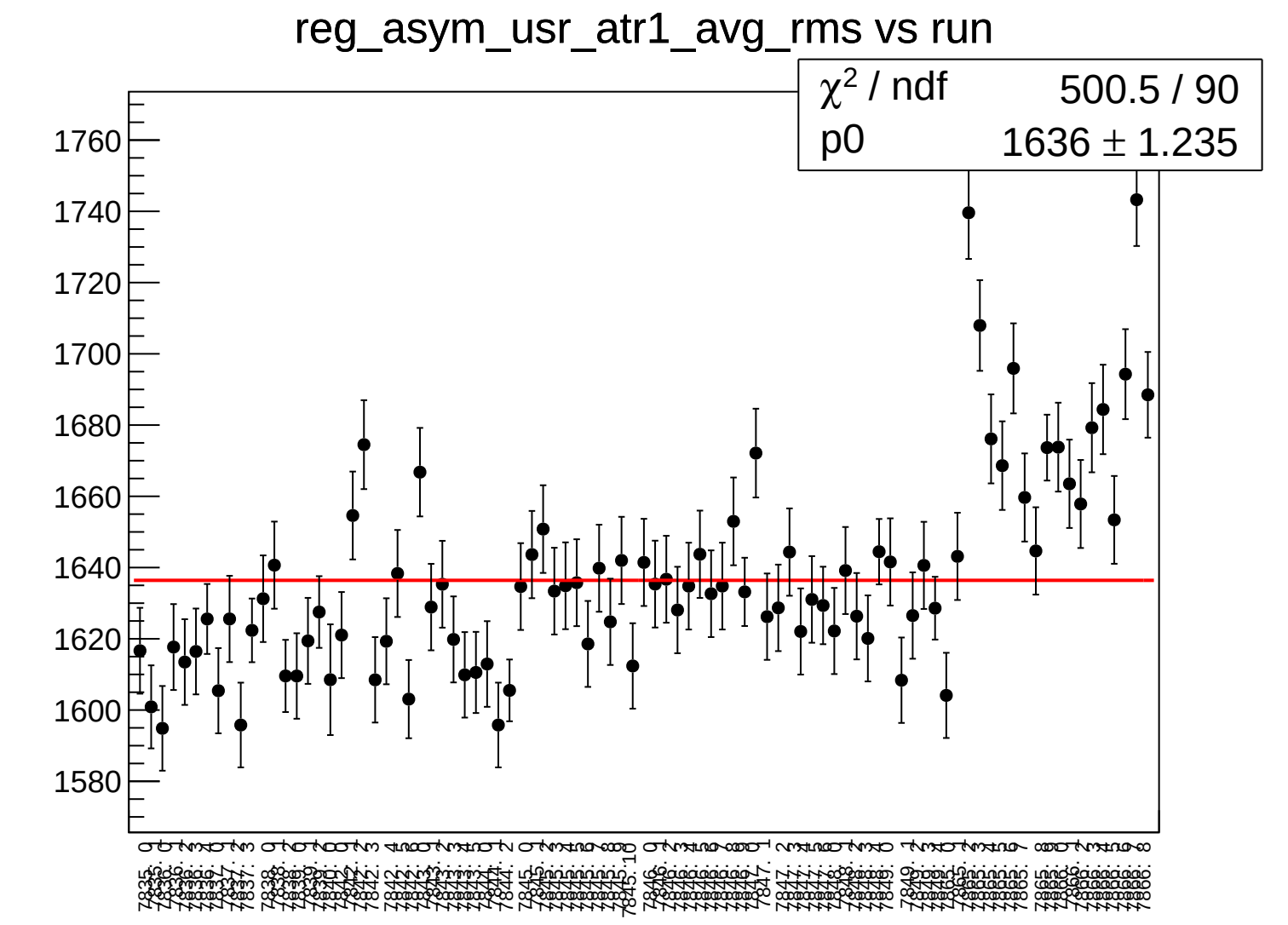

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.85 / 90
p0 −2.613e−13 ± 4.605e−13
pull
Entries 91
Mean −64.34
Std Dev 0

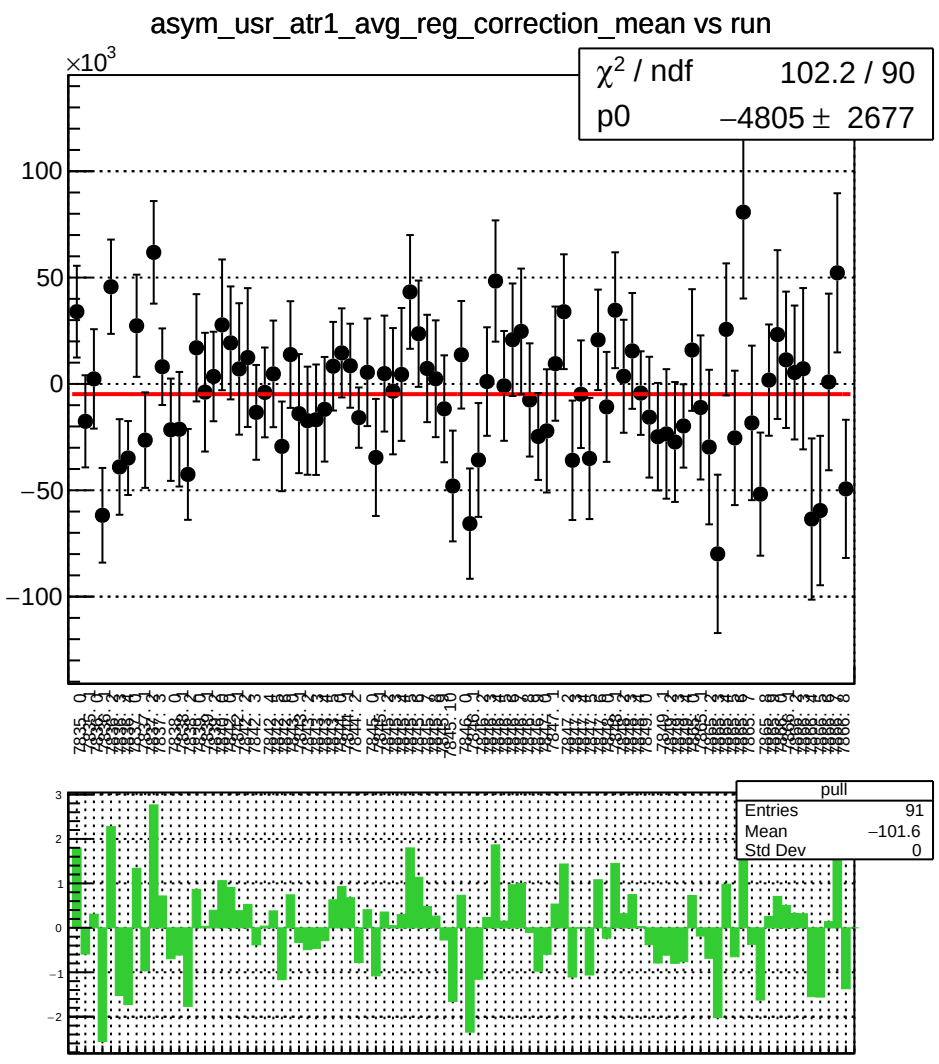

pull1D
Entries 91
Mean 0.03
Std Dev 0.9303

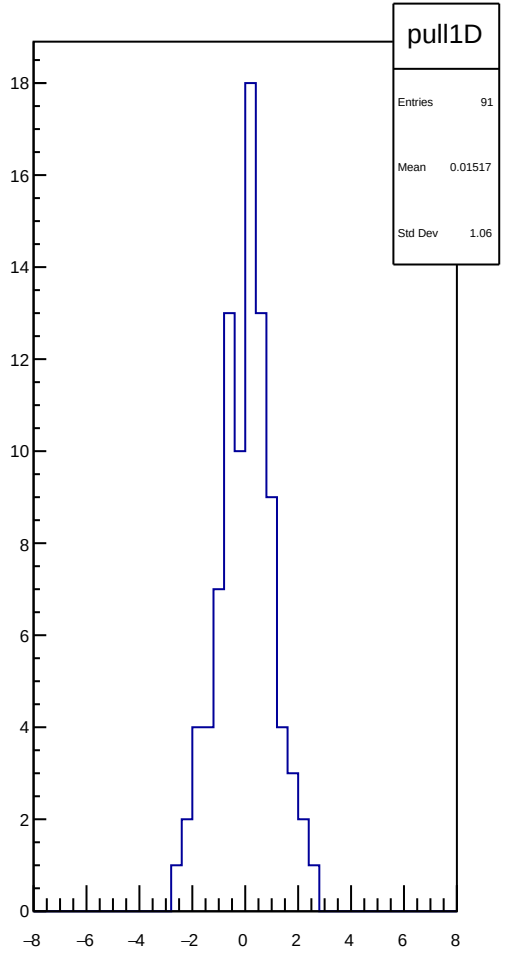

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.795e+05 / 90
p0 2.868e−10 ± 3.257e−13
3.5
3
2.5
2
1.5
1
0.5

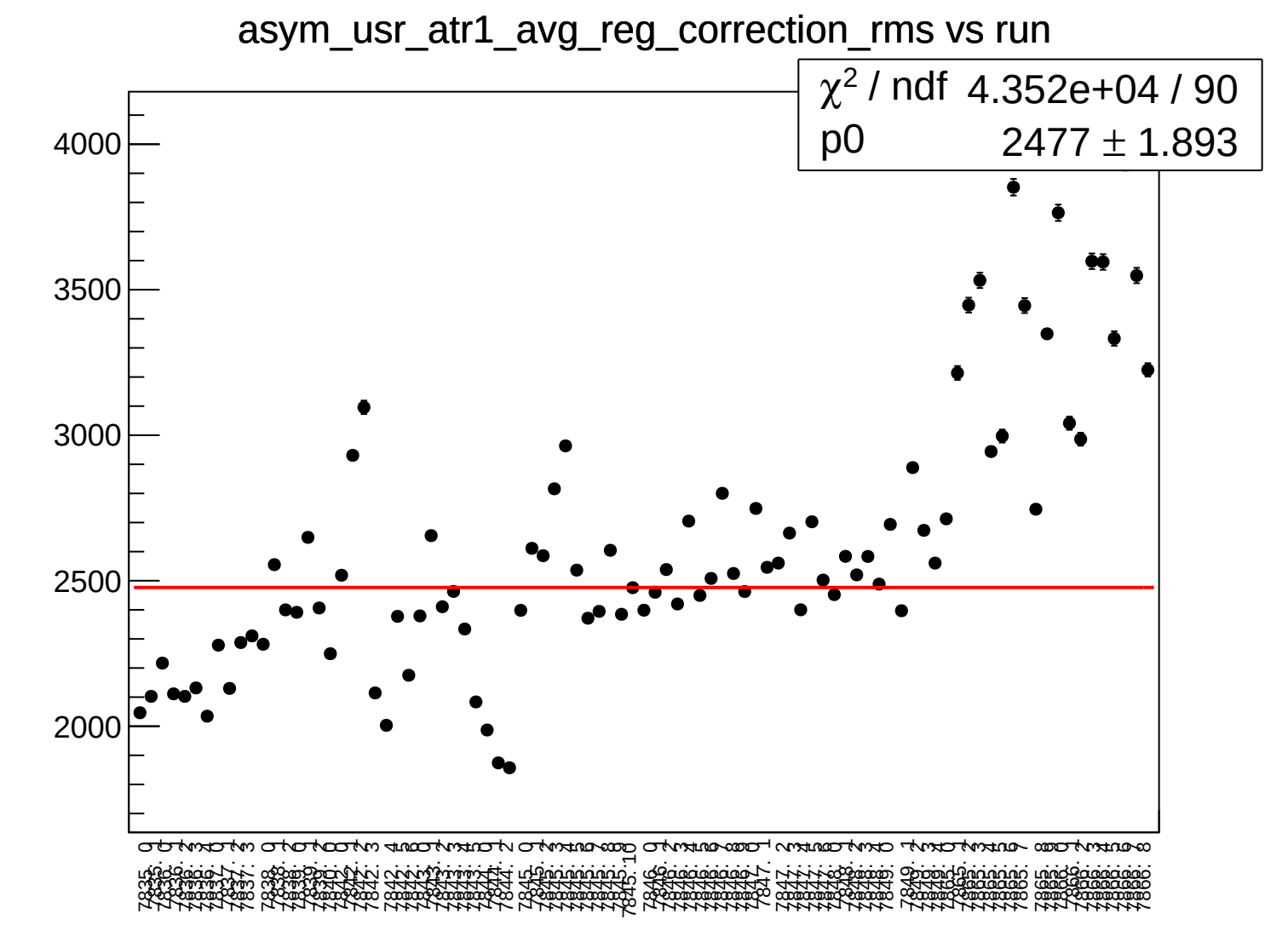

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 113.4 / 90
p0 3870 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2622
Std Dev 0
2
1
0
−1
−2

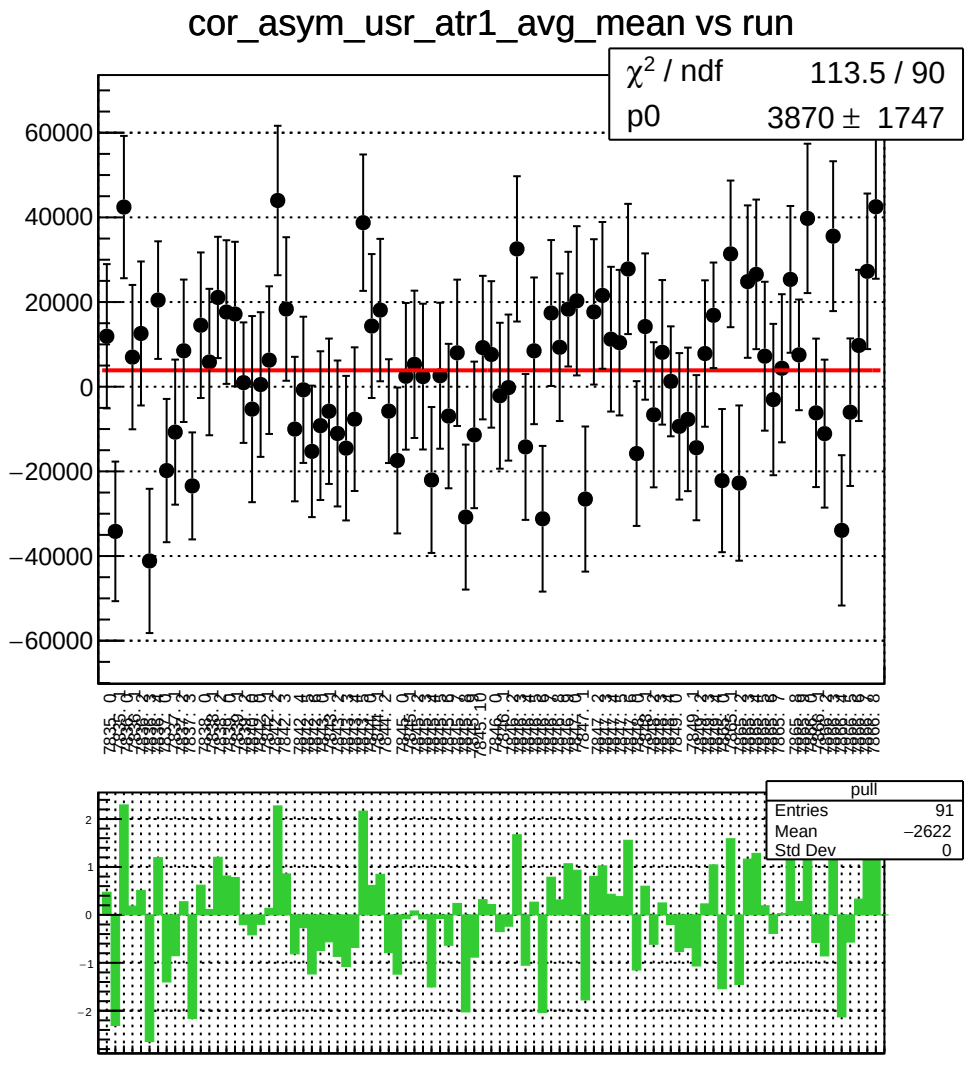

pull1D
Entries 91
Mean −0.001455
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

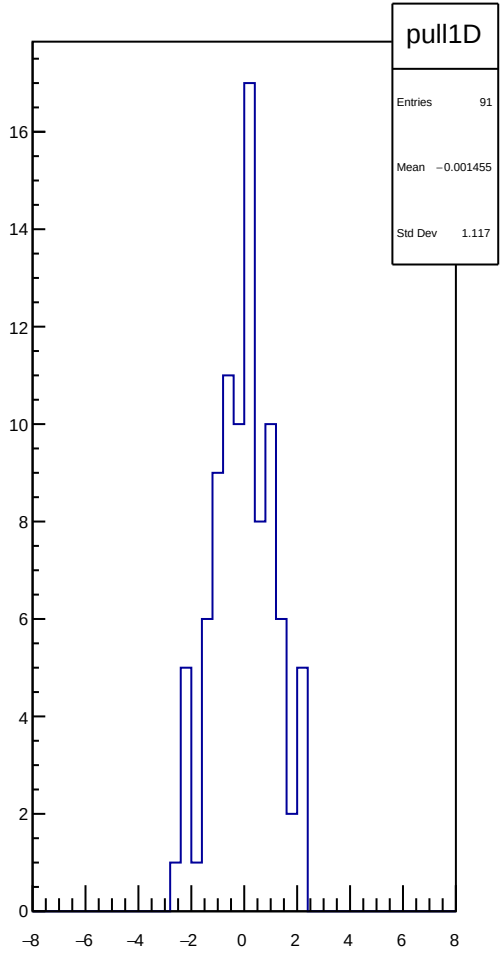

reg_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 500.5 / 90
p0 1636 ± 1.235
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

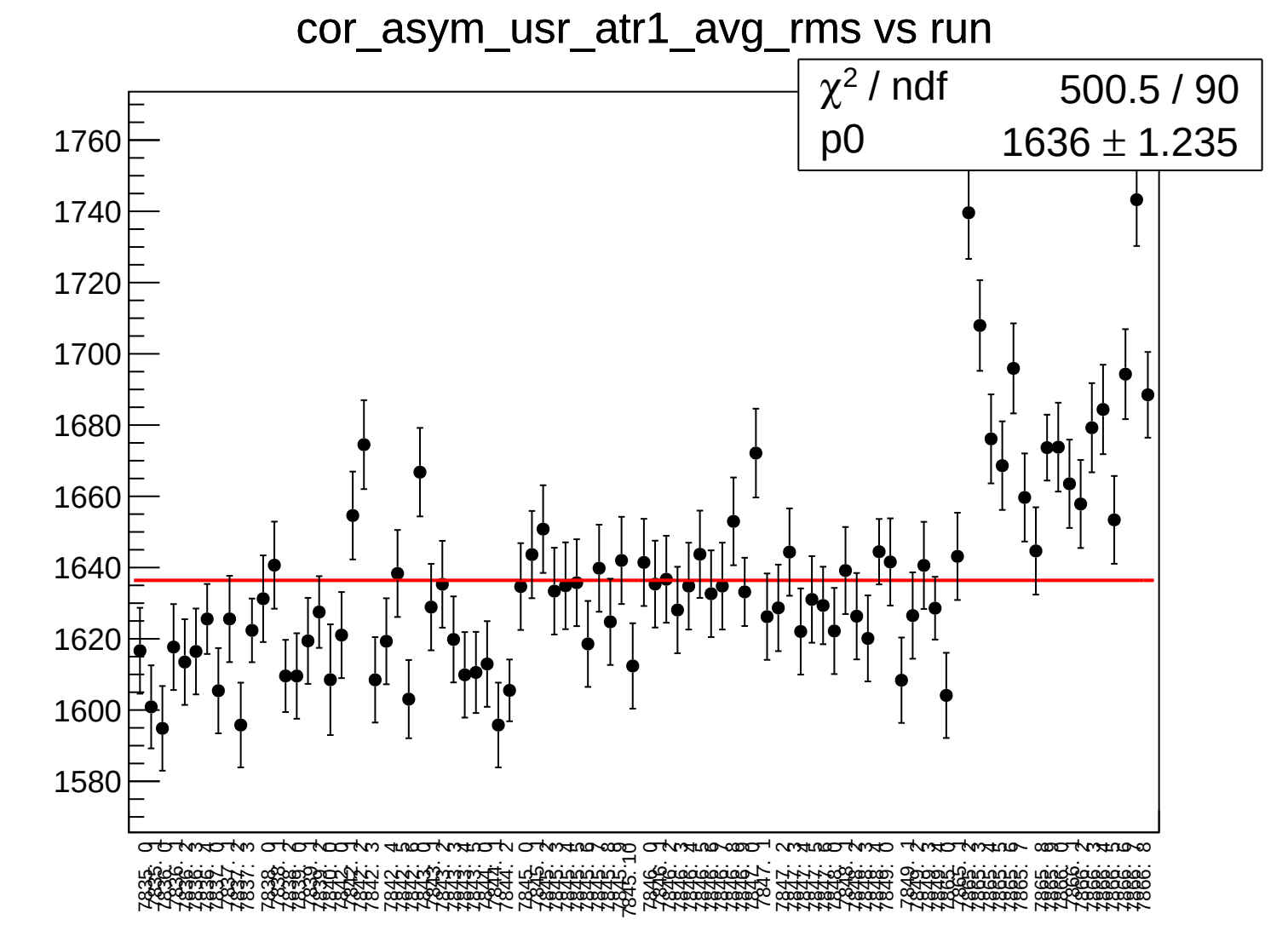

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 102.2 / 90
p0 −4805 ± 2677
100
50
0
−50
−100
pull
Entries 91
Mean −101.6
Std Dev 0
3
2
1
0
−1
−2

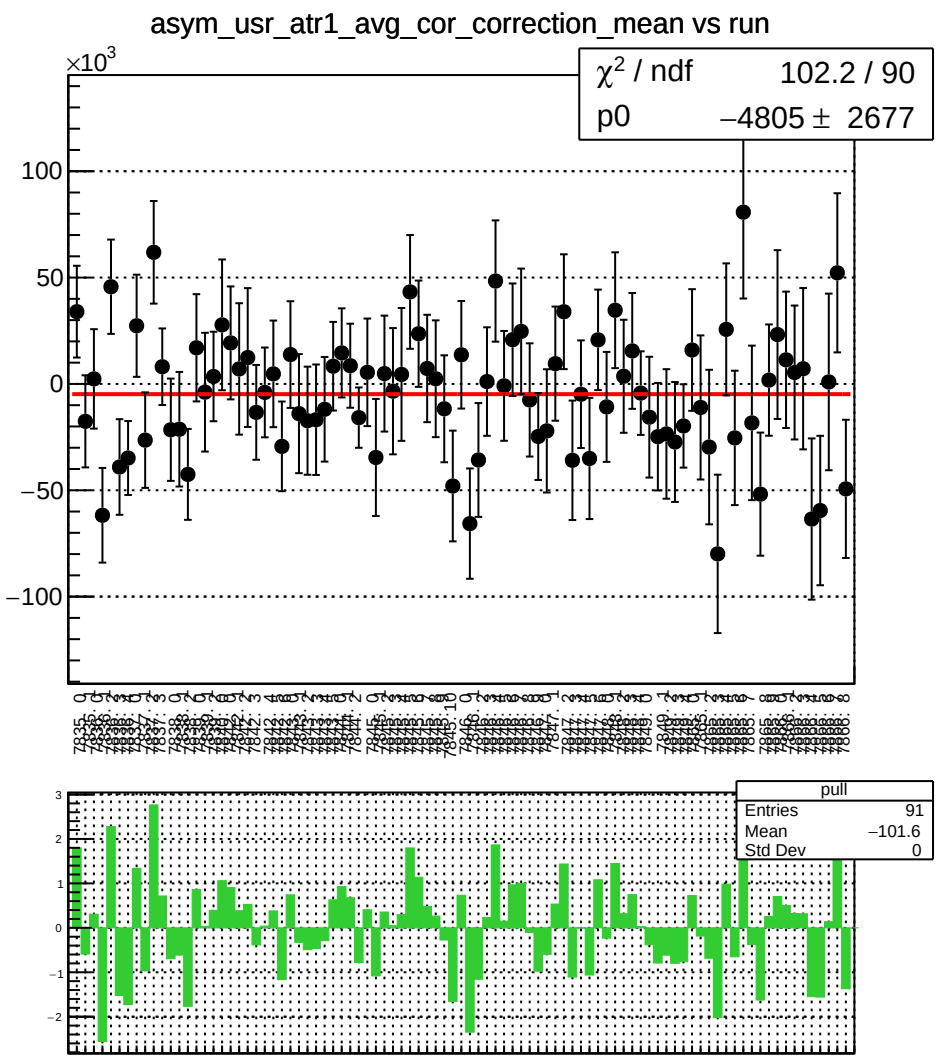

pull1D
Entries 91
Mean 0.01517
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

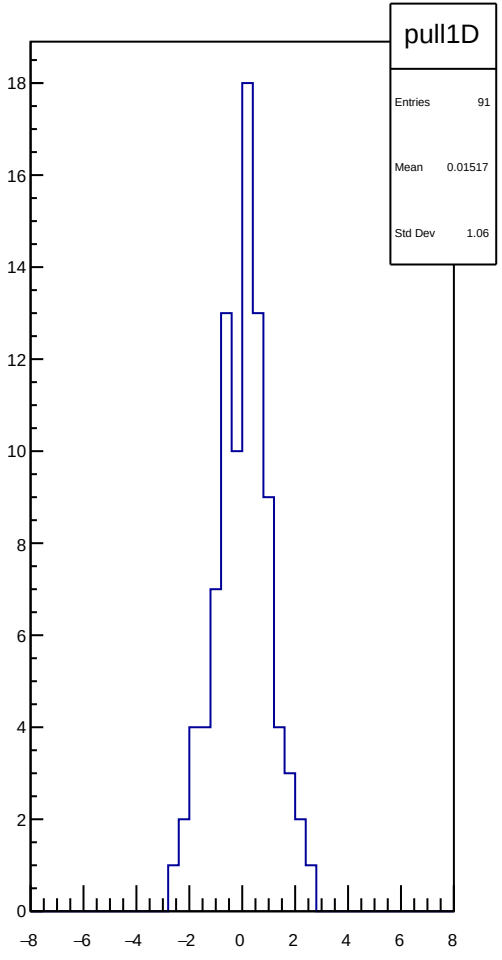

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4.352e+04 / 90
p0 2477 ± 1.893
4000
3500
3000
2500
2000

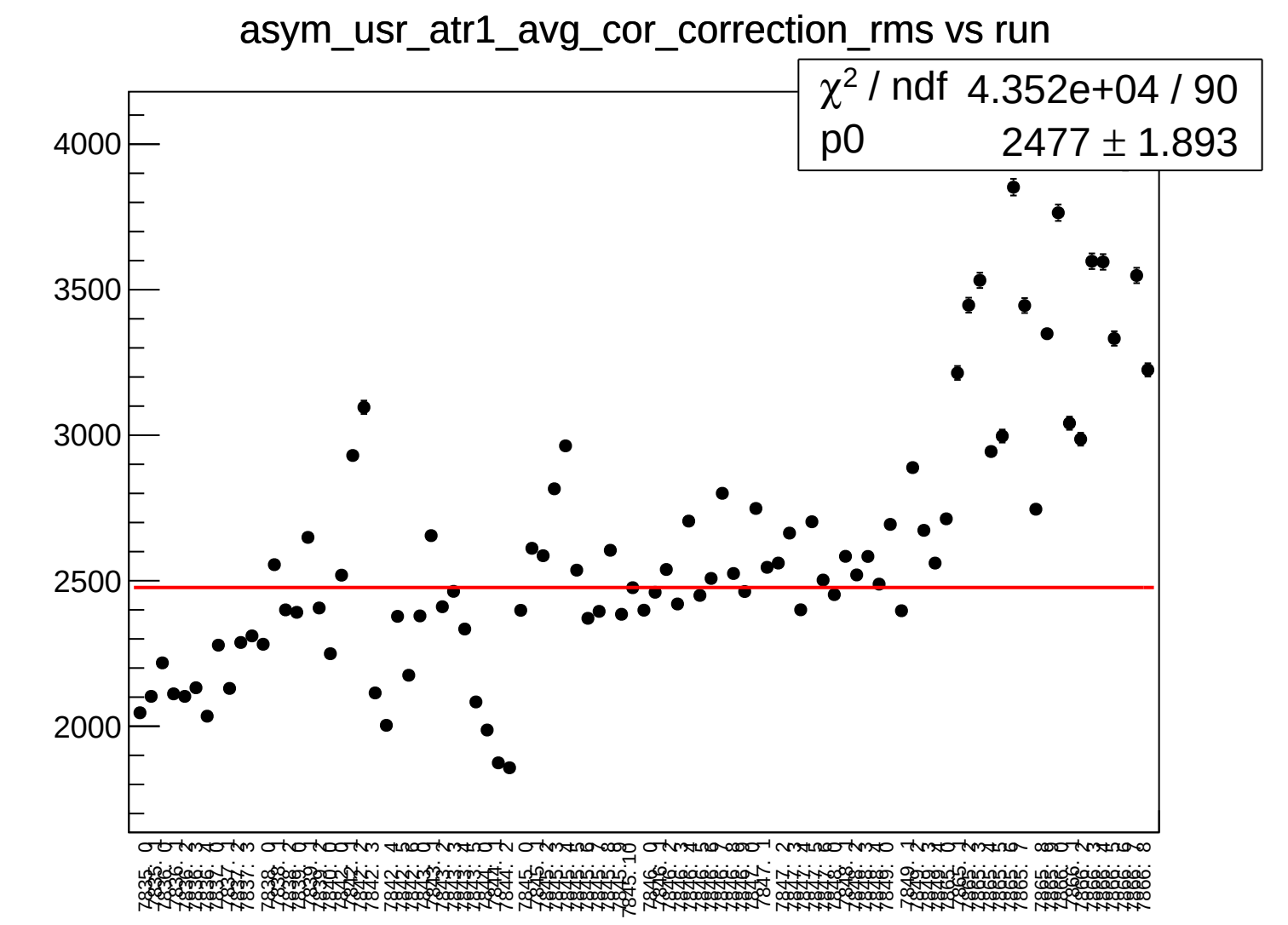

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 113.5 / 90
p0 3870 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2622
Std Dev 0
2
1
0
−1
−2

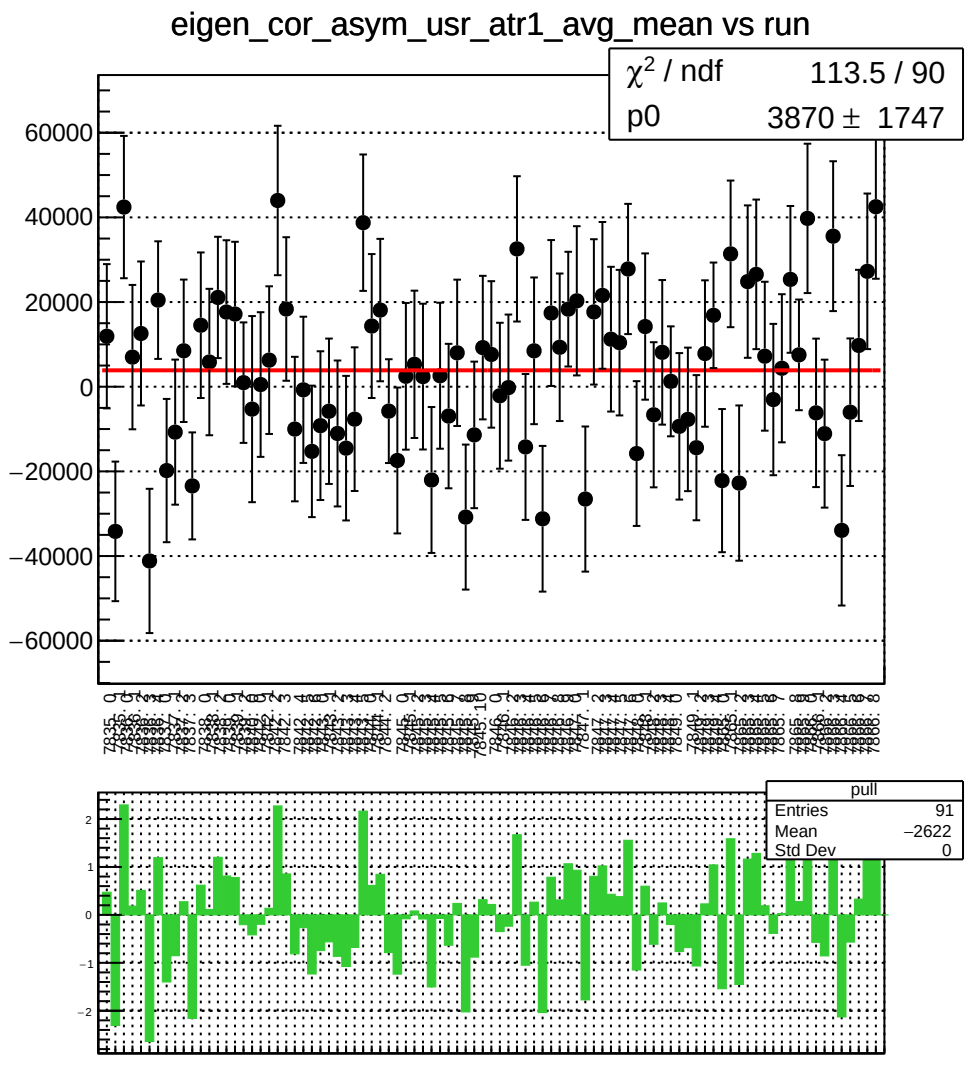

pull1D
Entries 91
Mean −0.001455
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

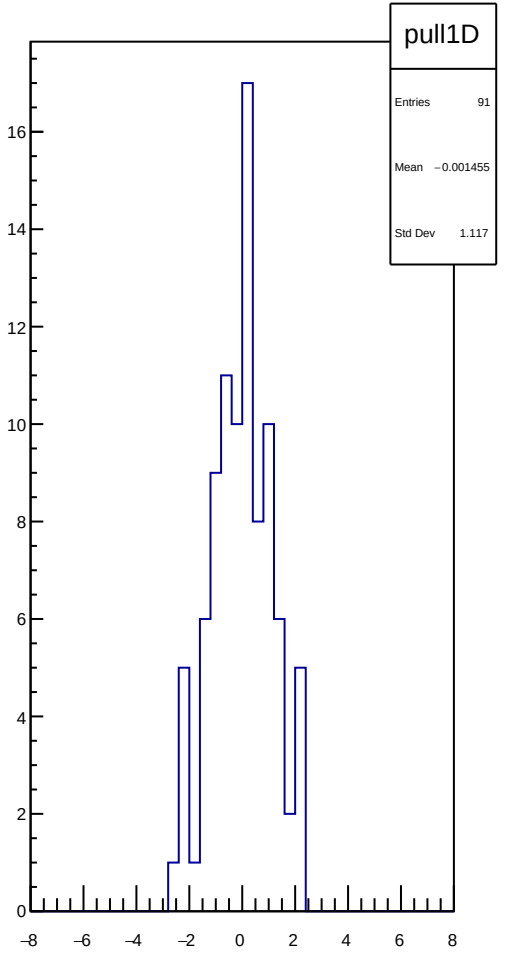

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 500.5 / 90
p0 1636 ± 1.235
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

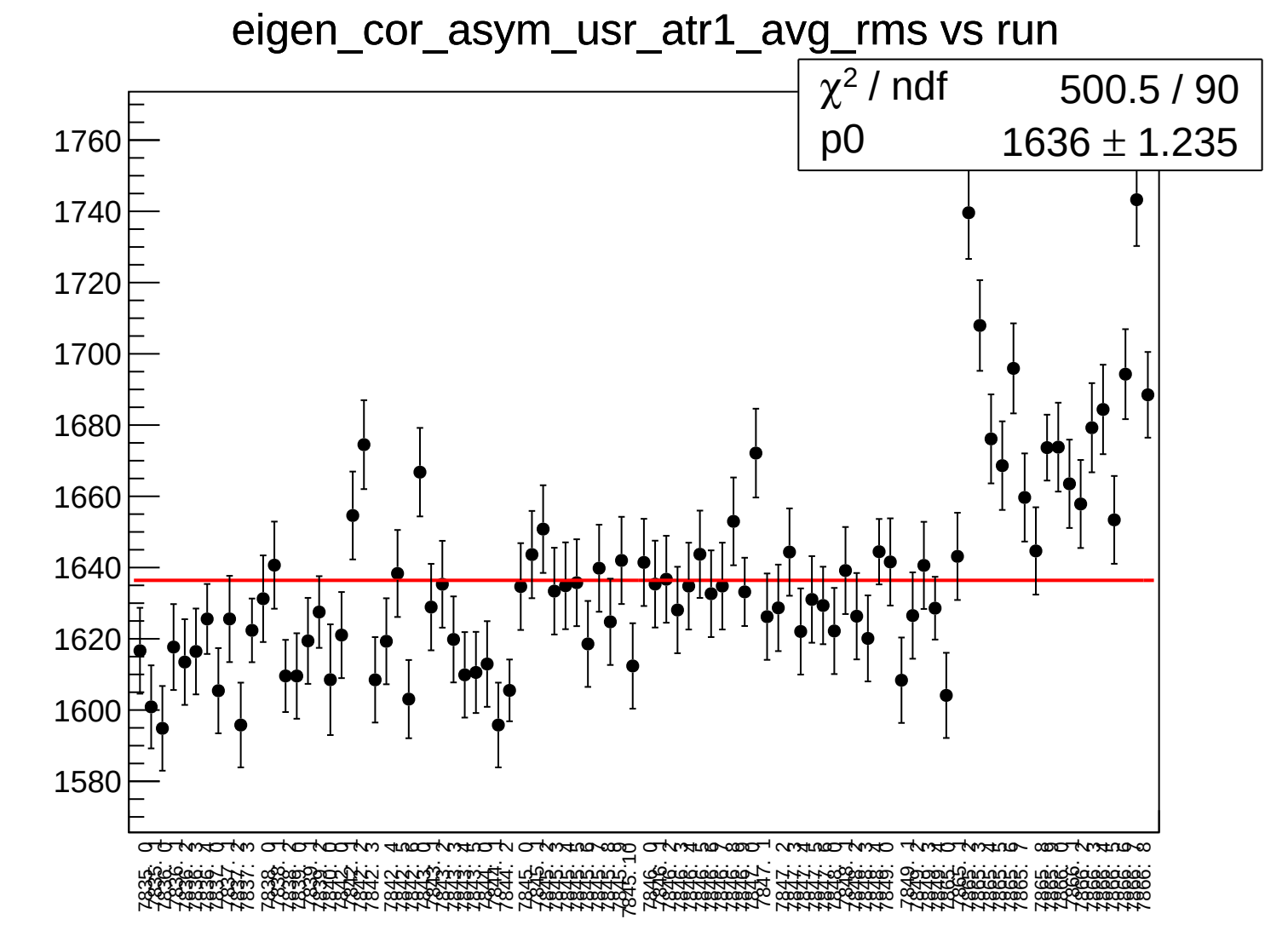

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 102.2 / 90
p0 −4805 ± 2677
pull
Entries 91
Mean −101.6
Std Dev 0

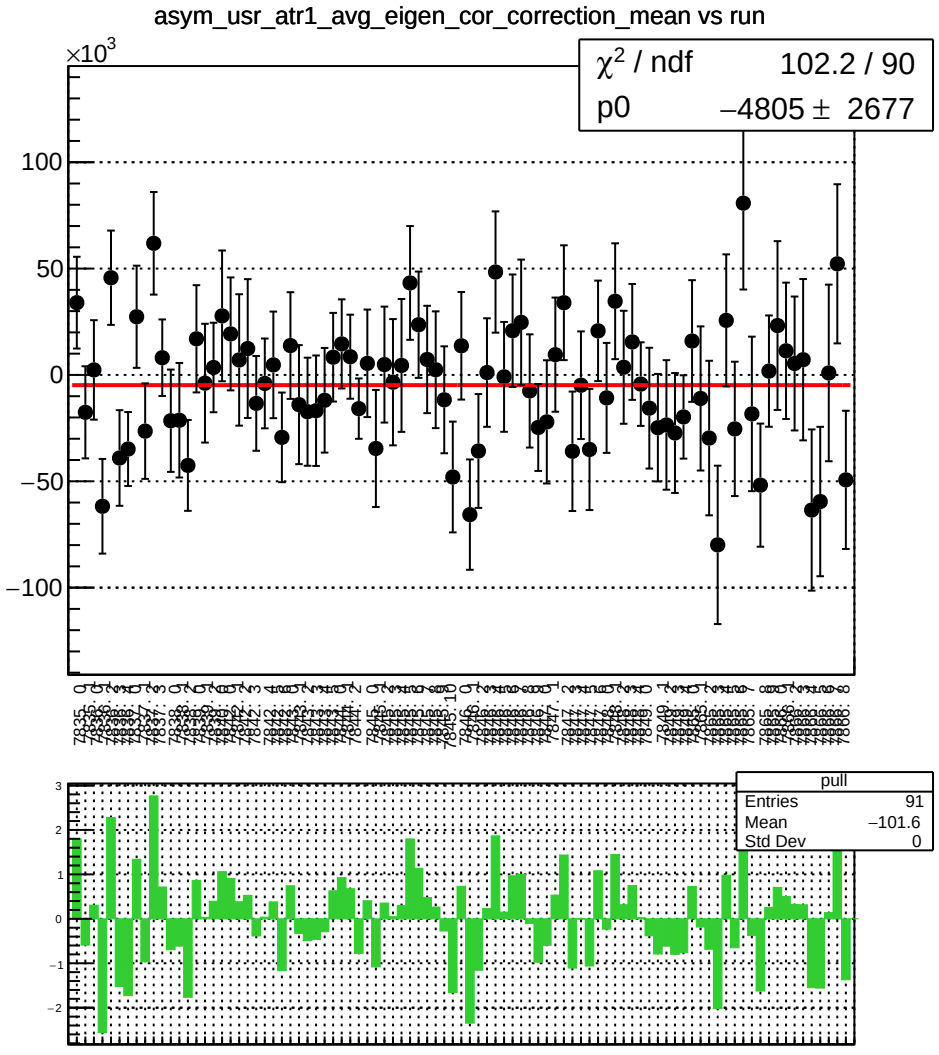

pull1D
Entries 91
Mean 0.01517
Std Dev 1.06

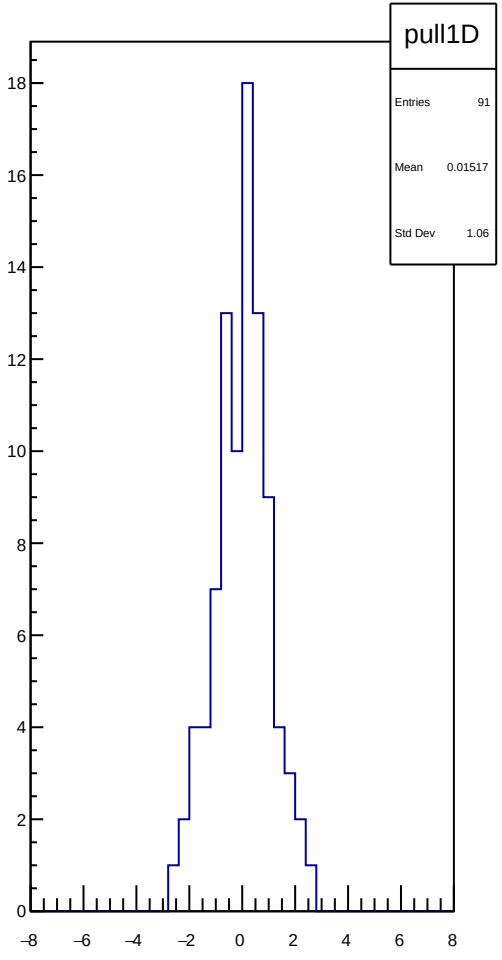

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 4.352e+04 / 90
p0 2477 ± 1.893
4000
3500
3000
2500
2000

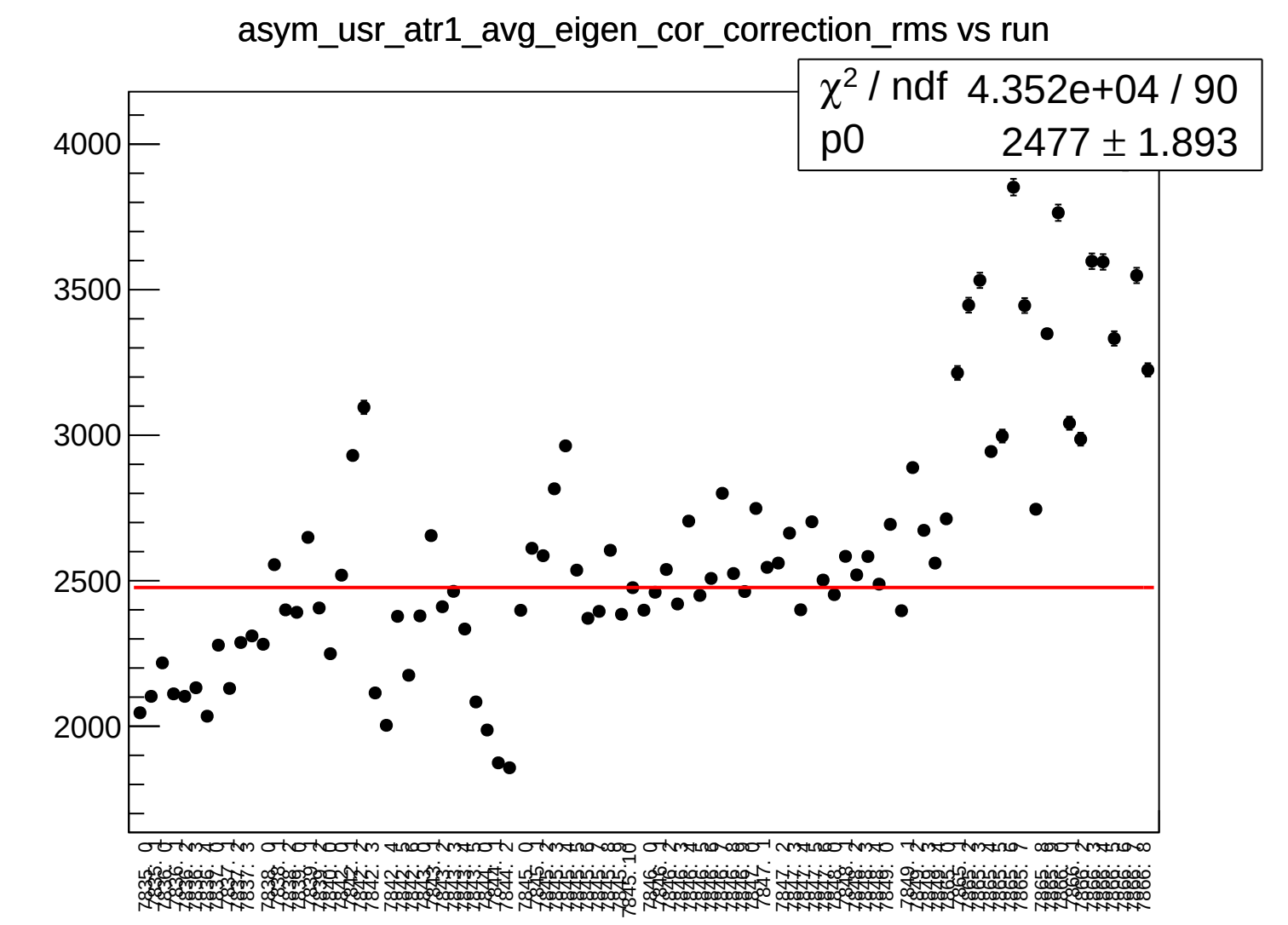

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 113.5 / 90
p0 3870 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2622
Std Dev 0
2
1
0
−1
−2

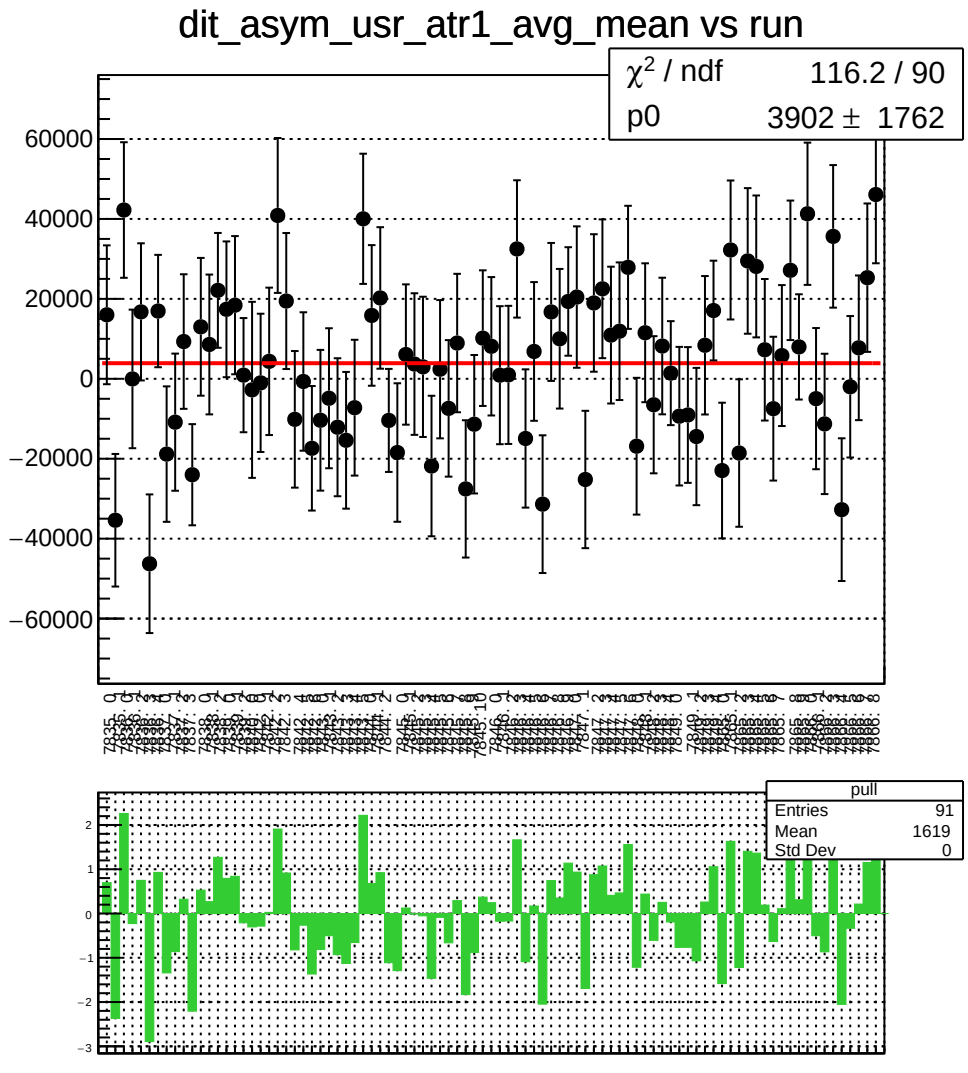

pull1D
Entries 91
Mean −0.001455
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

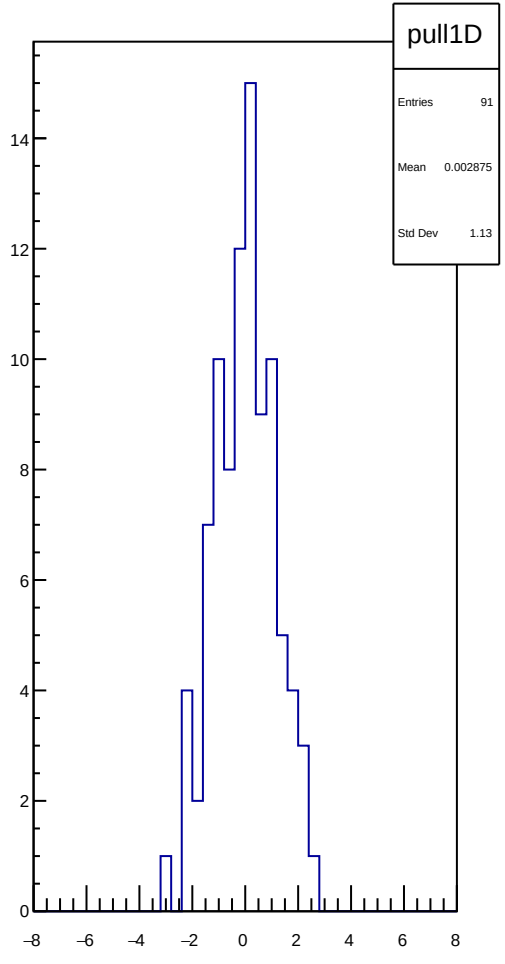

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 500.5 / 90
p0 1636 ± 1.235
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

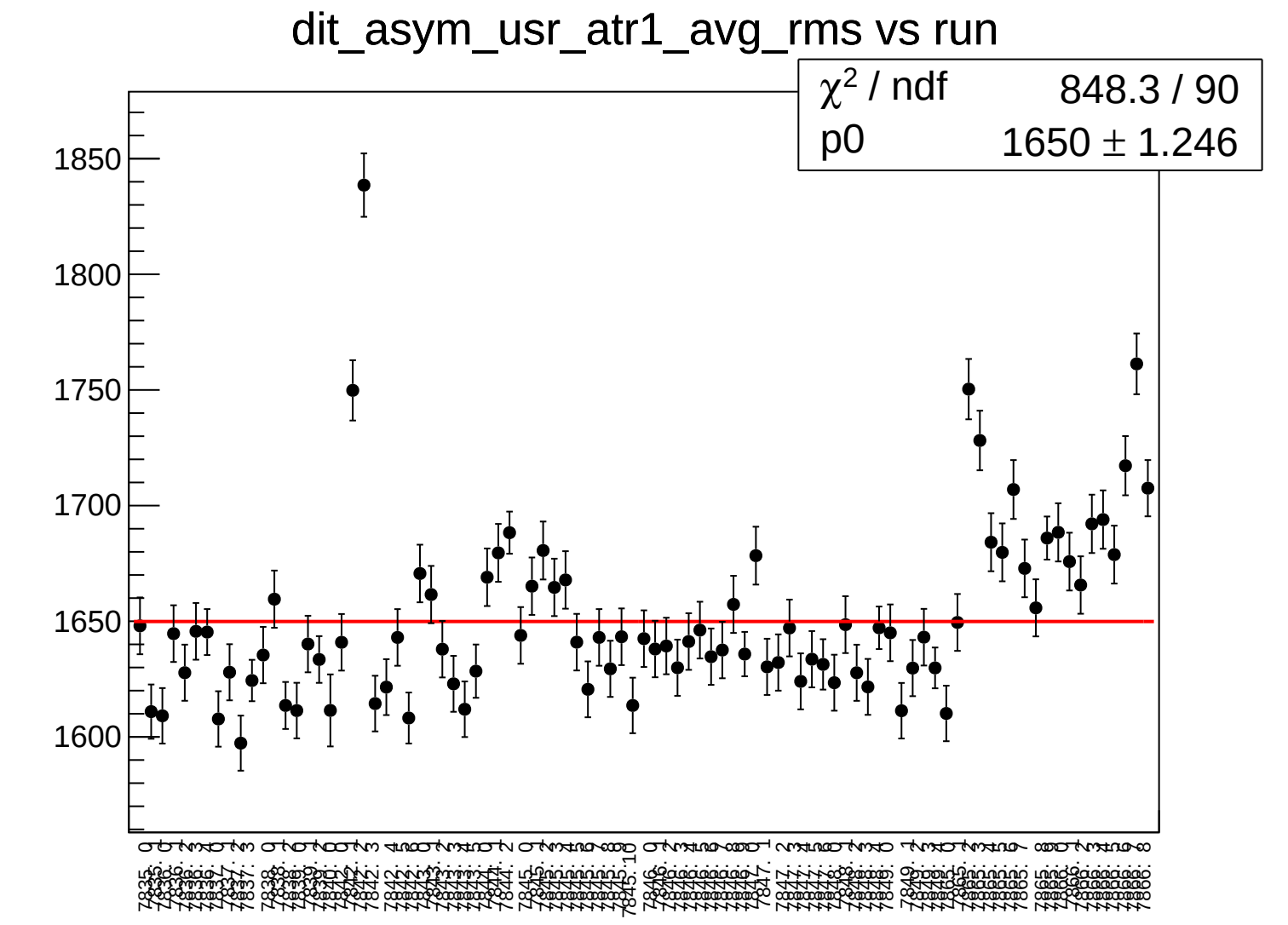

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.2 / 90
p0 −4805 ± 2677
100
50
0
−50
−100
pull
Entries 91
Mean −101.6
Std Dev 0
3
2
1
0
−1
−2

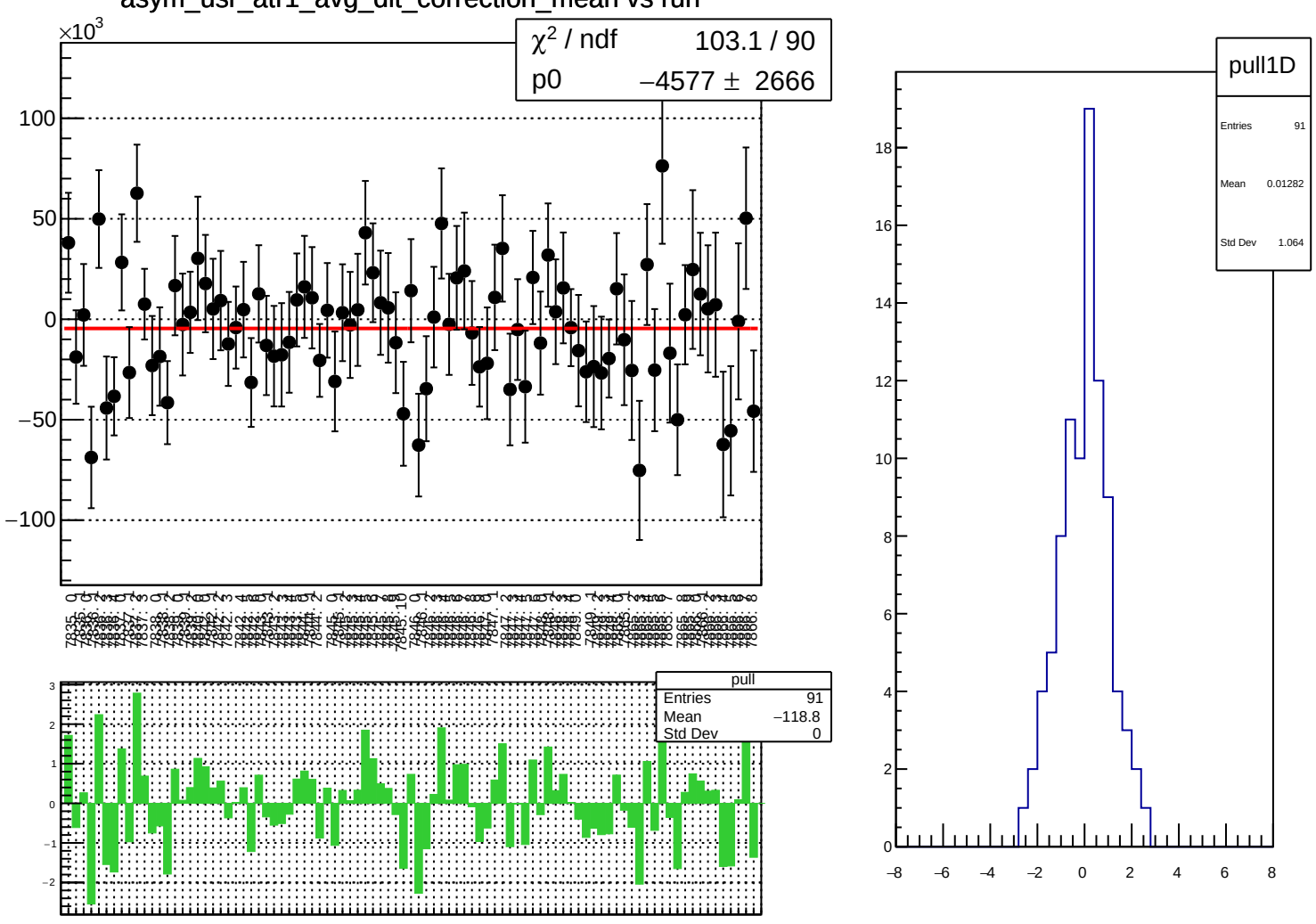

pull1D
Entries 91
Mean 0.01517
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

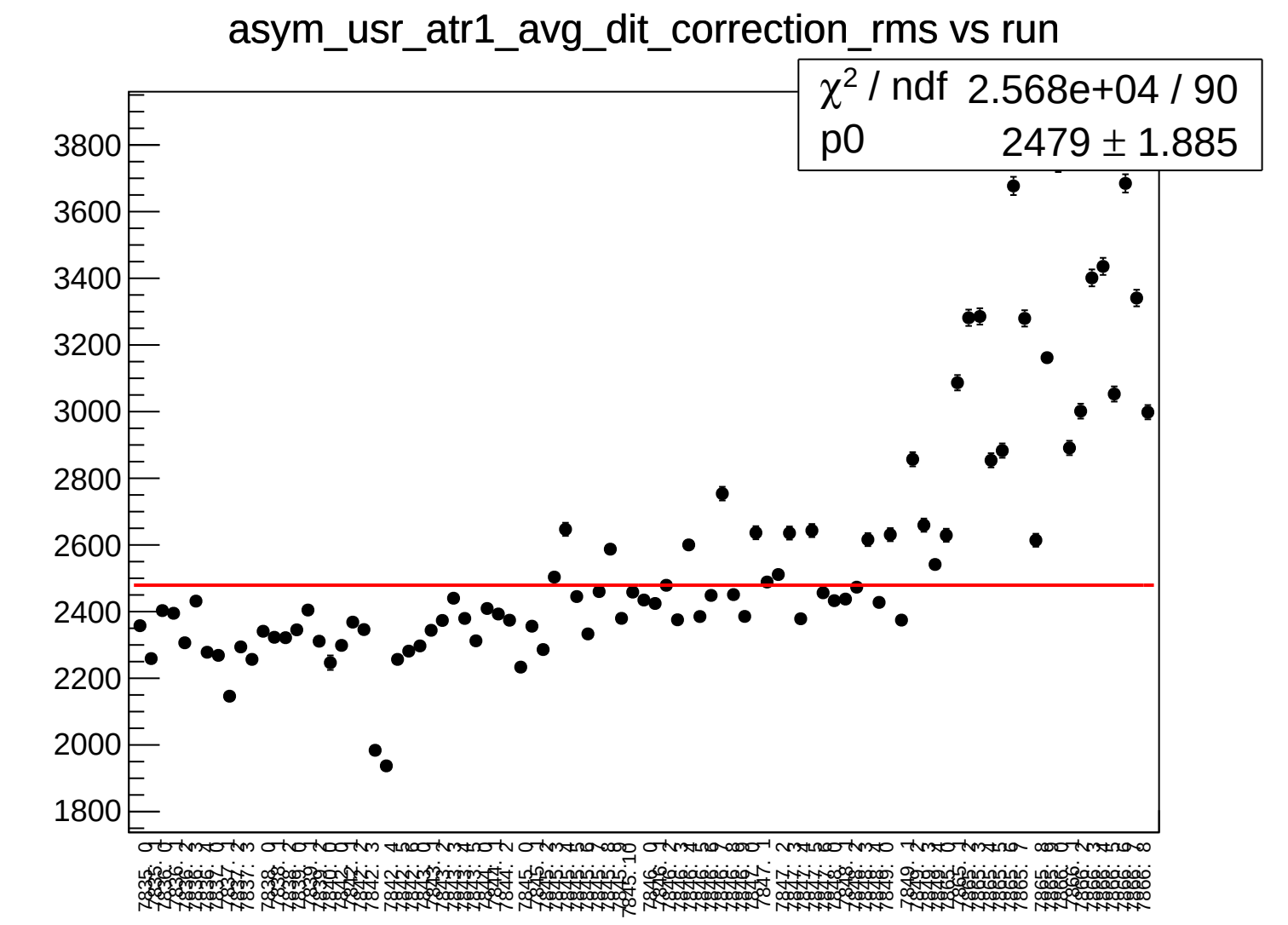

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4.352e+04 / 90
p0 2477 ± 1.893
4000
3500
3000
2500
2000

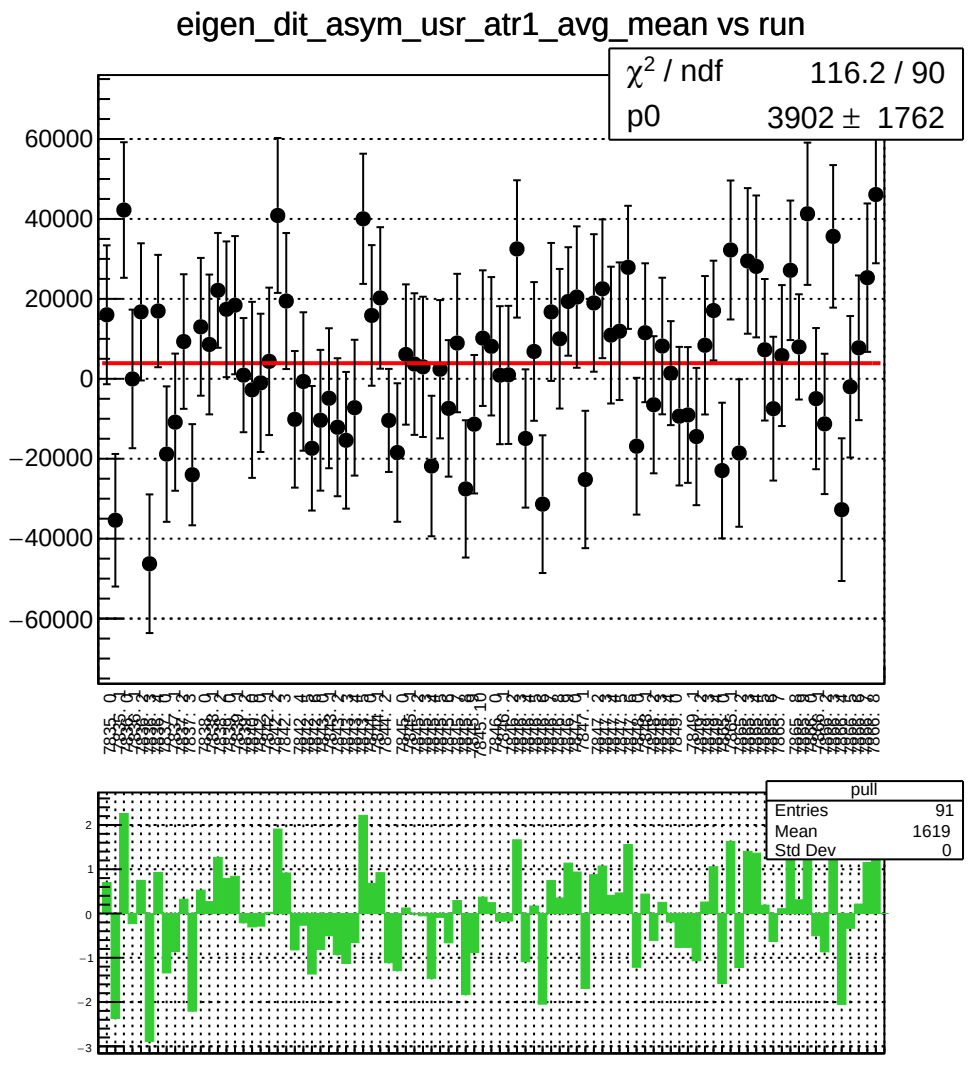

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 116.2 / 90
p0 3902 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1619
Std Dev 0
2
1
0
−1
−2
−3

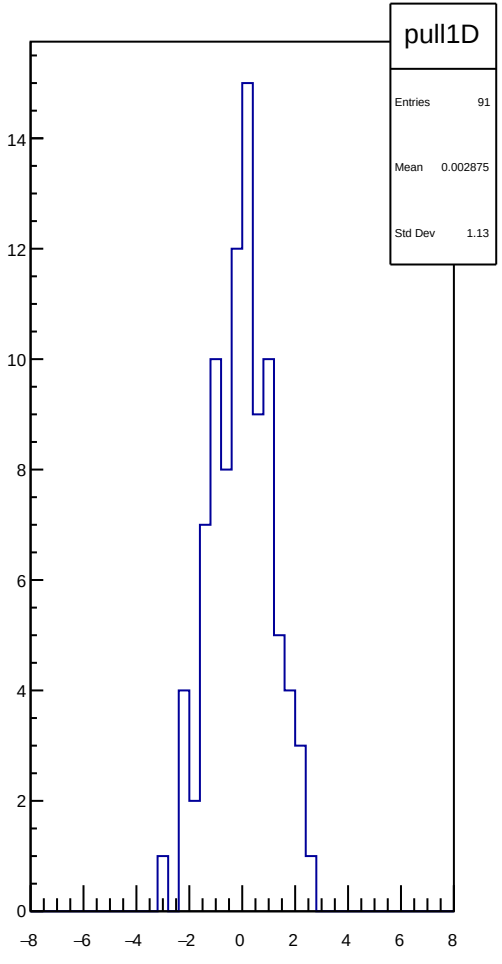

pull1D
Entries 91
Mean 0.002875
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

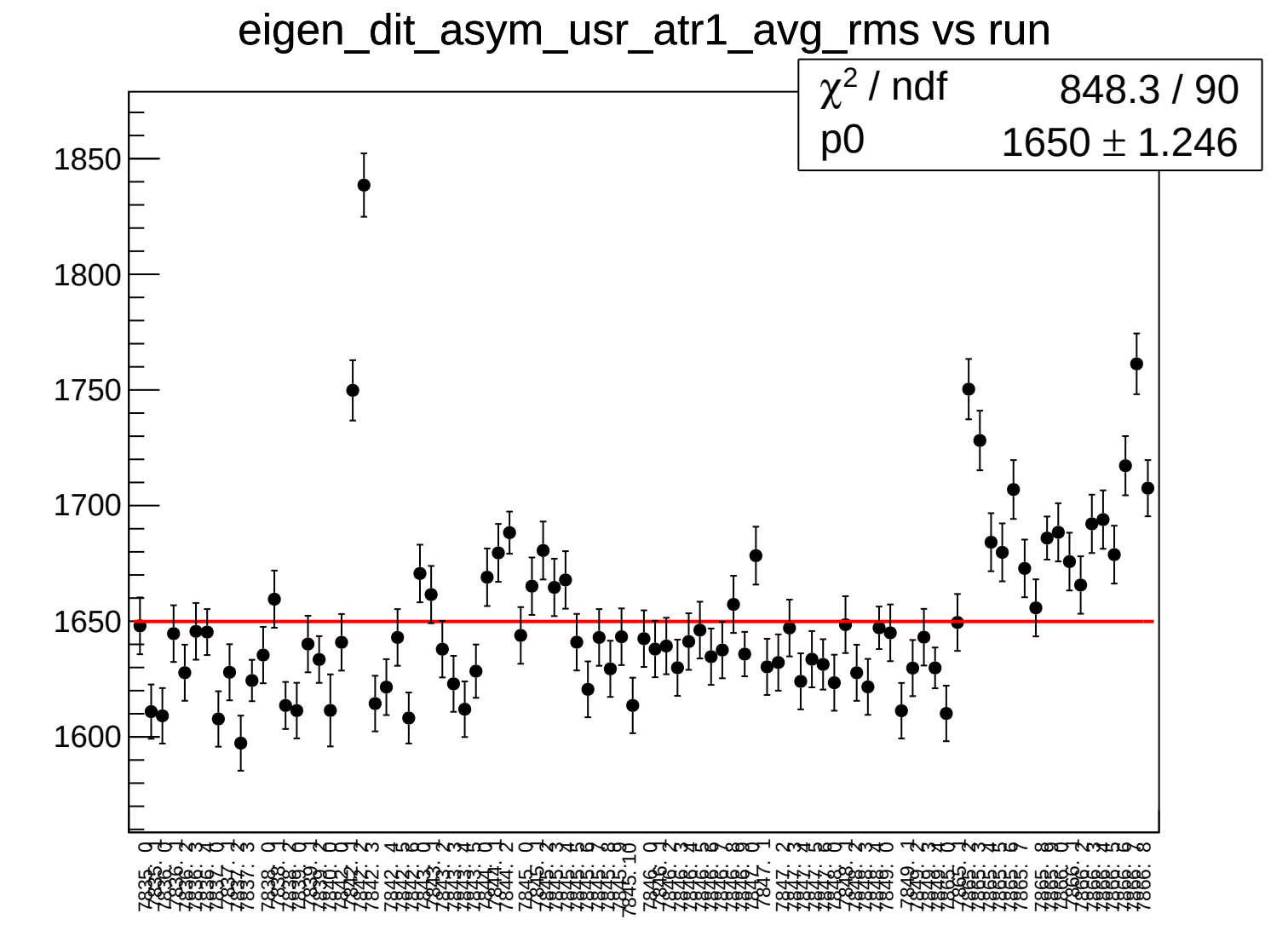

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 848.3 / 90
p0 1650 ± 1.246
1850
1800
1750
1700
1650
1600

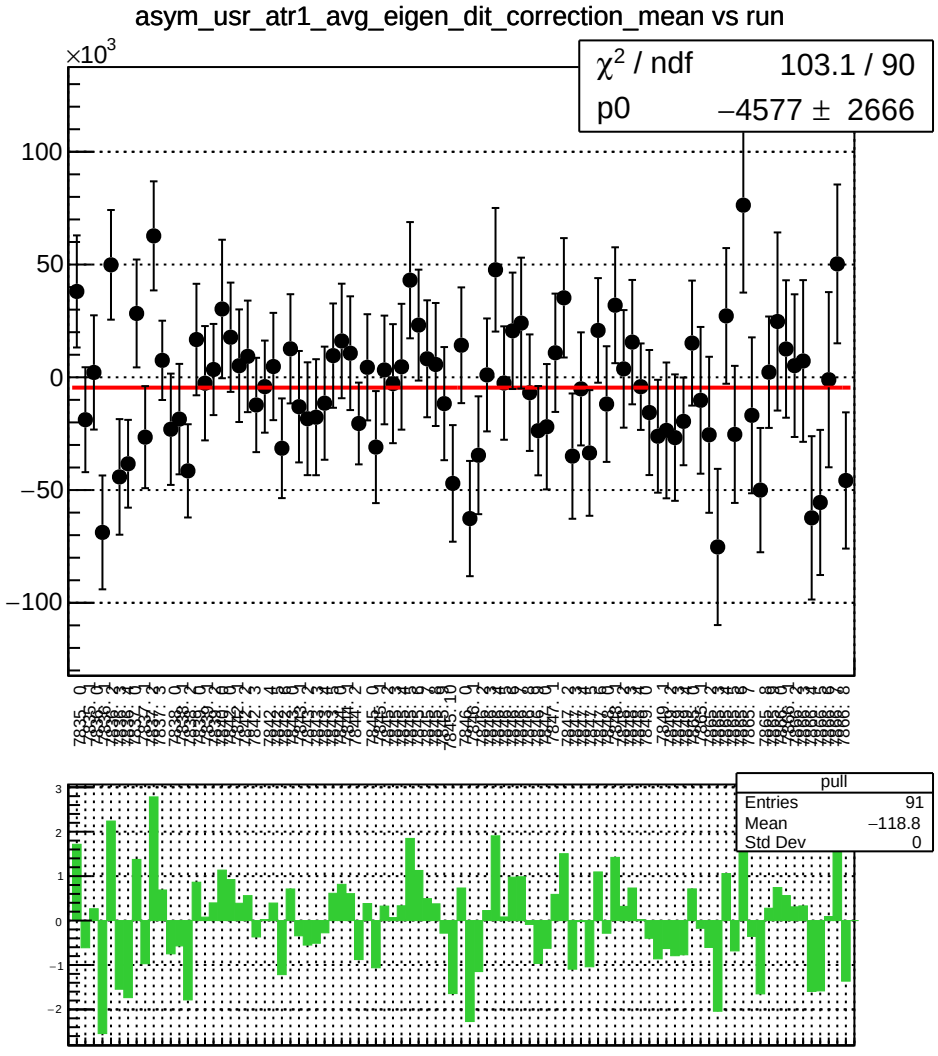

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.1 / 90
p0 −4577 ± 2666
100
50
0
−50
−100
pull
Entries 91
Mean −118.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01282
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

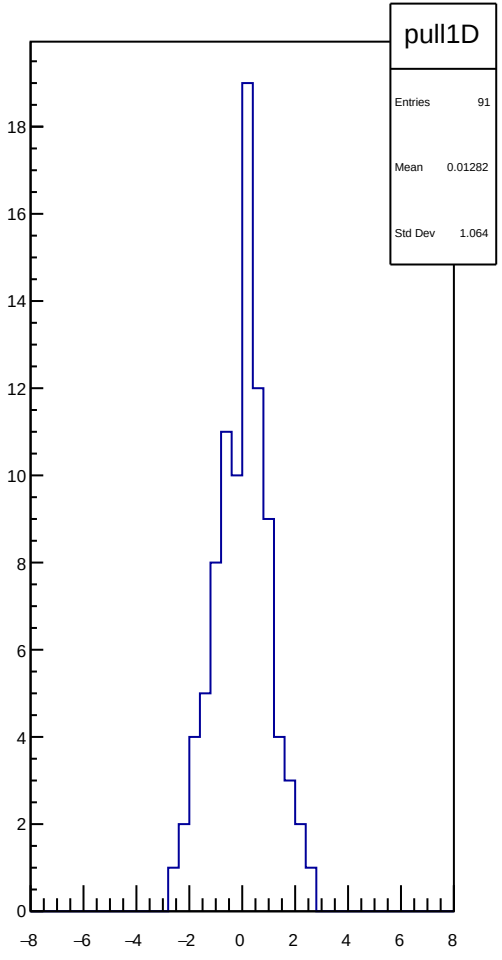

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2.568e+04 / 90
p0 2479 ± 1.885
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

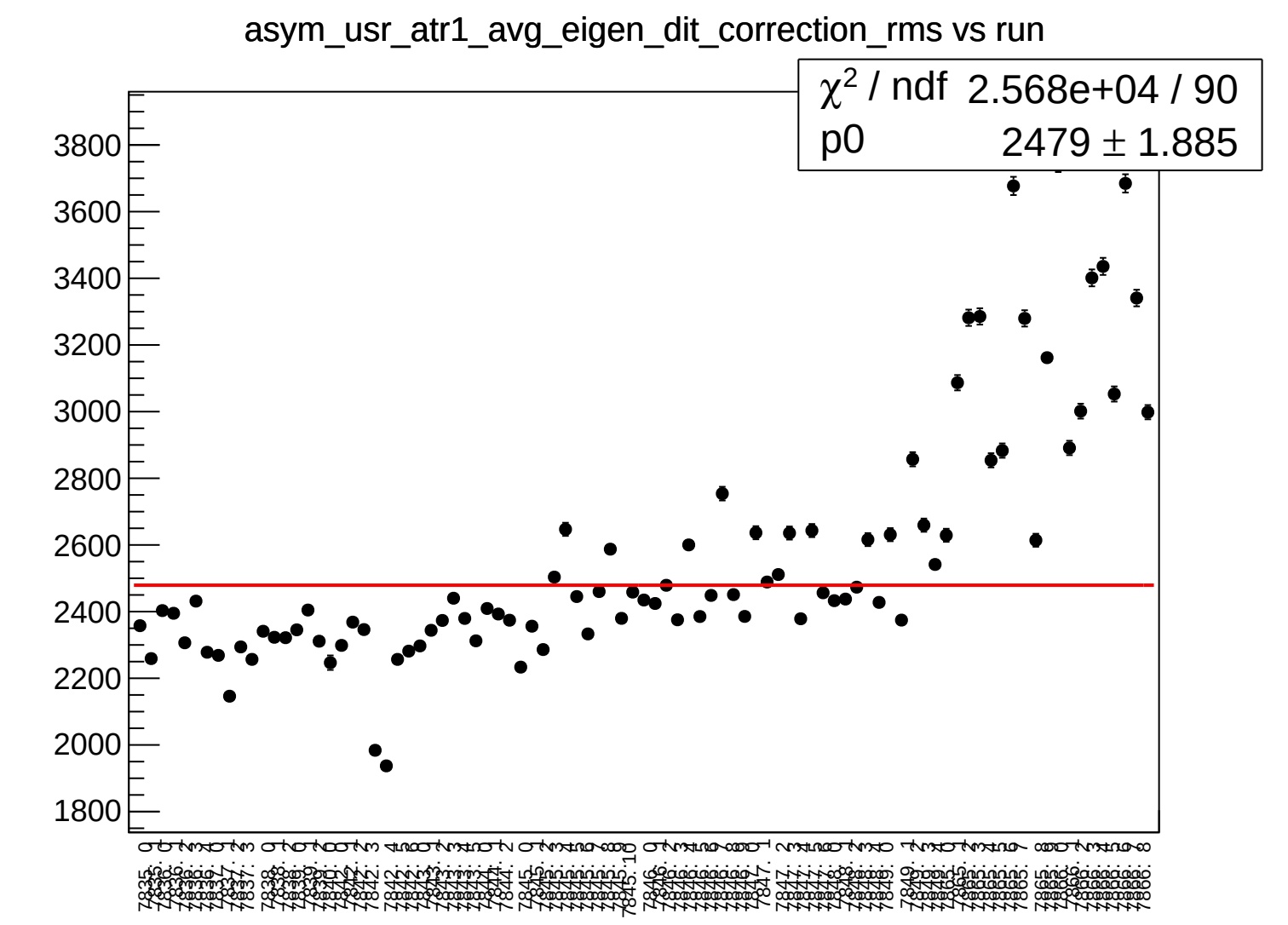

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 116.2 / 90
p0 3902 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1619
Std Dev 0
2
1
0
−1
−2
−3

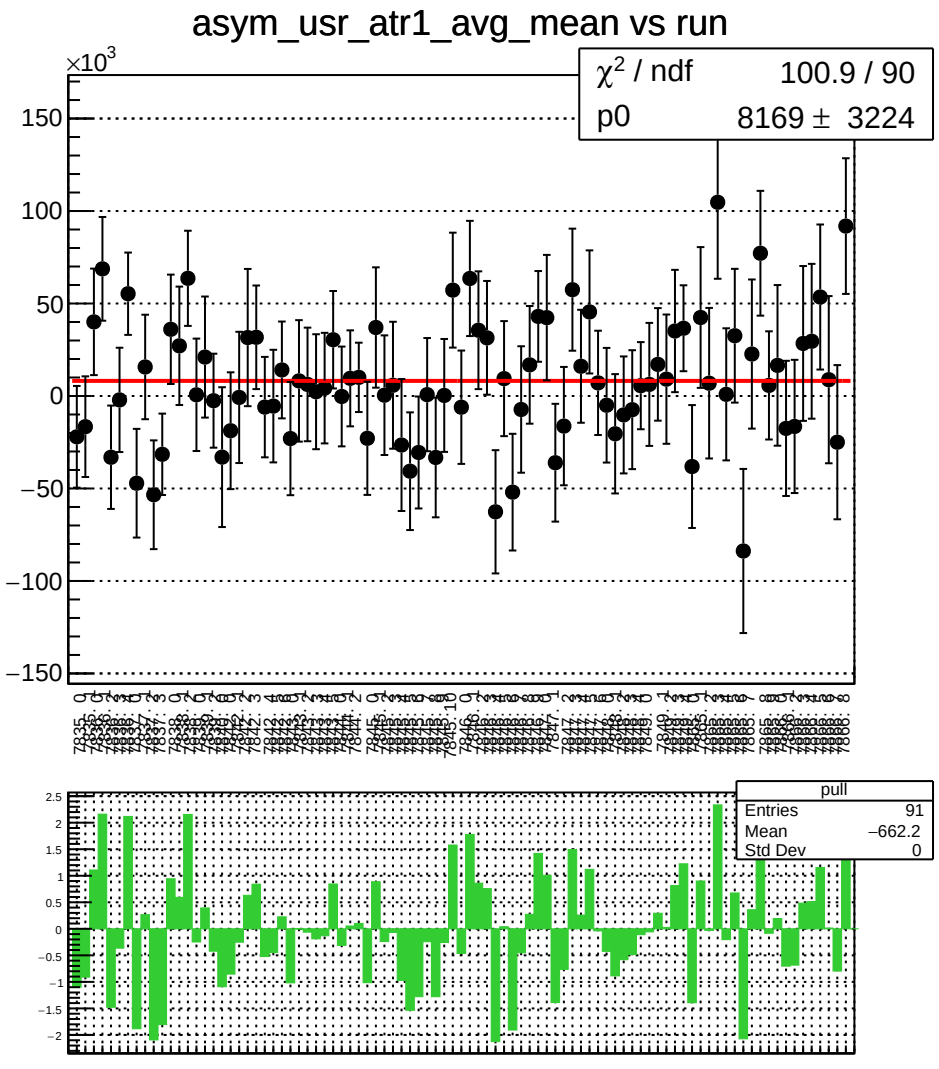

pull1D
Entries 91
Mean 0.002875
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

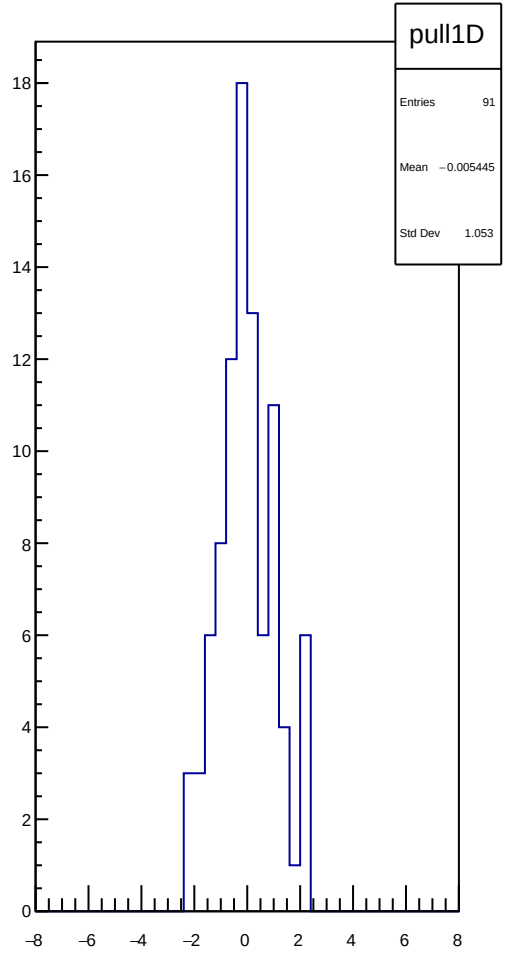

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 848.3 / 90
p0 1650 ± 1.246
1850
1800
1750
1700
1650
1600

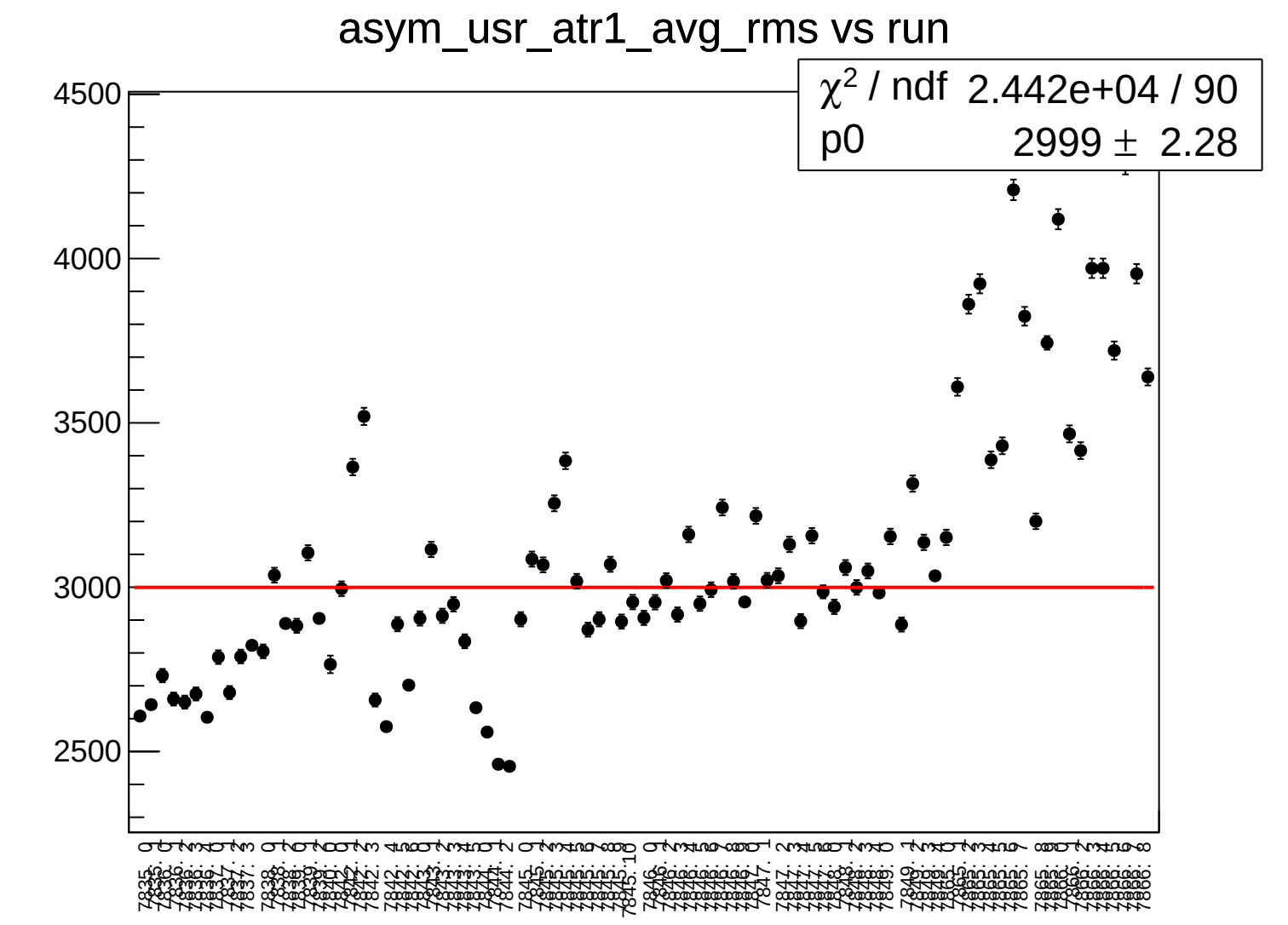

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.1 / 90
p0 −4577 ± 2666
100
50
0
−50
−100
pull
Entries 91
Mean −118.8
Std Dev 0
3
2
1
0
−1
−2

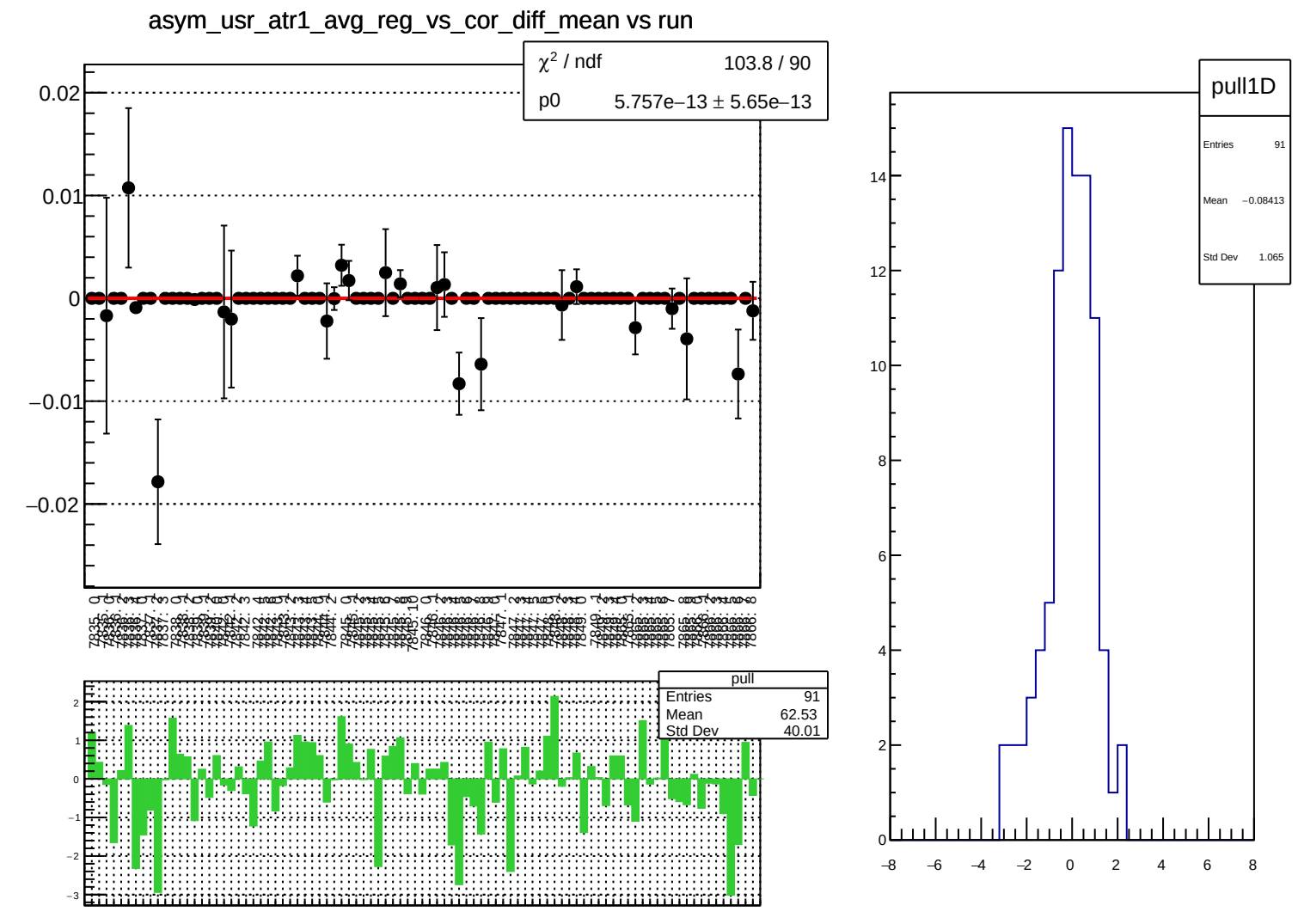

pull1D
Entries 91
Mean 0.01282
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

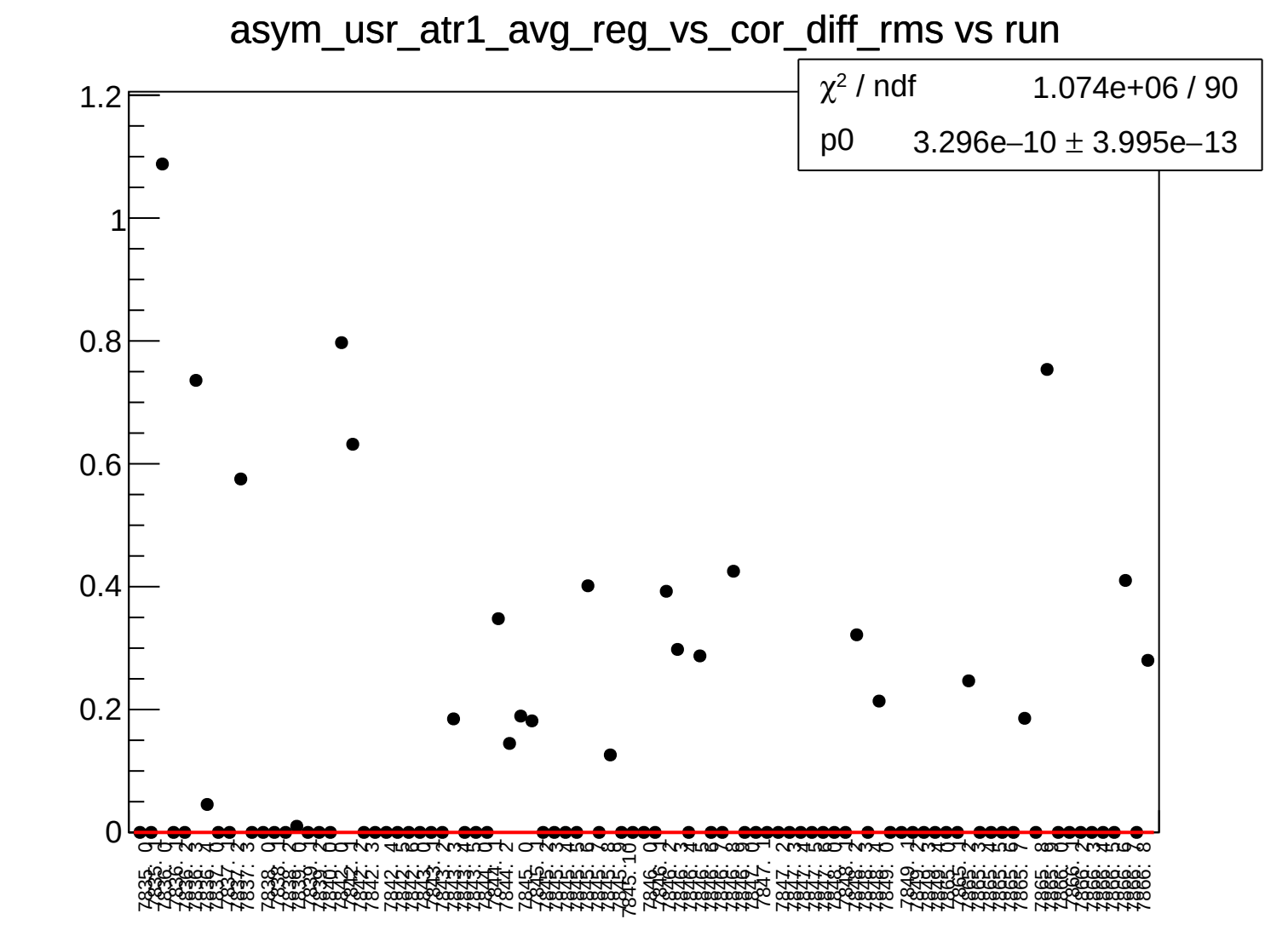

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.568e+04 / 90
p0 2479 ± 1.885
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

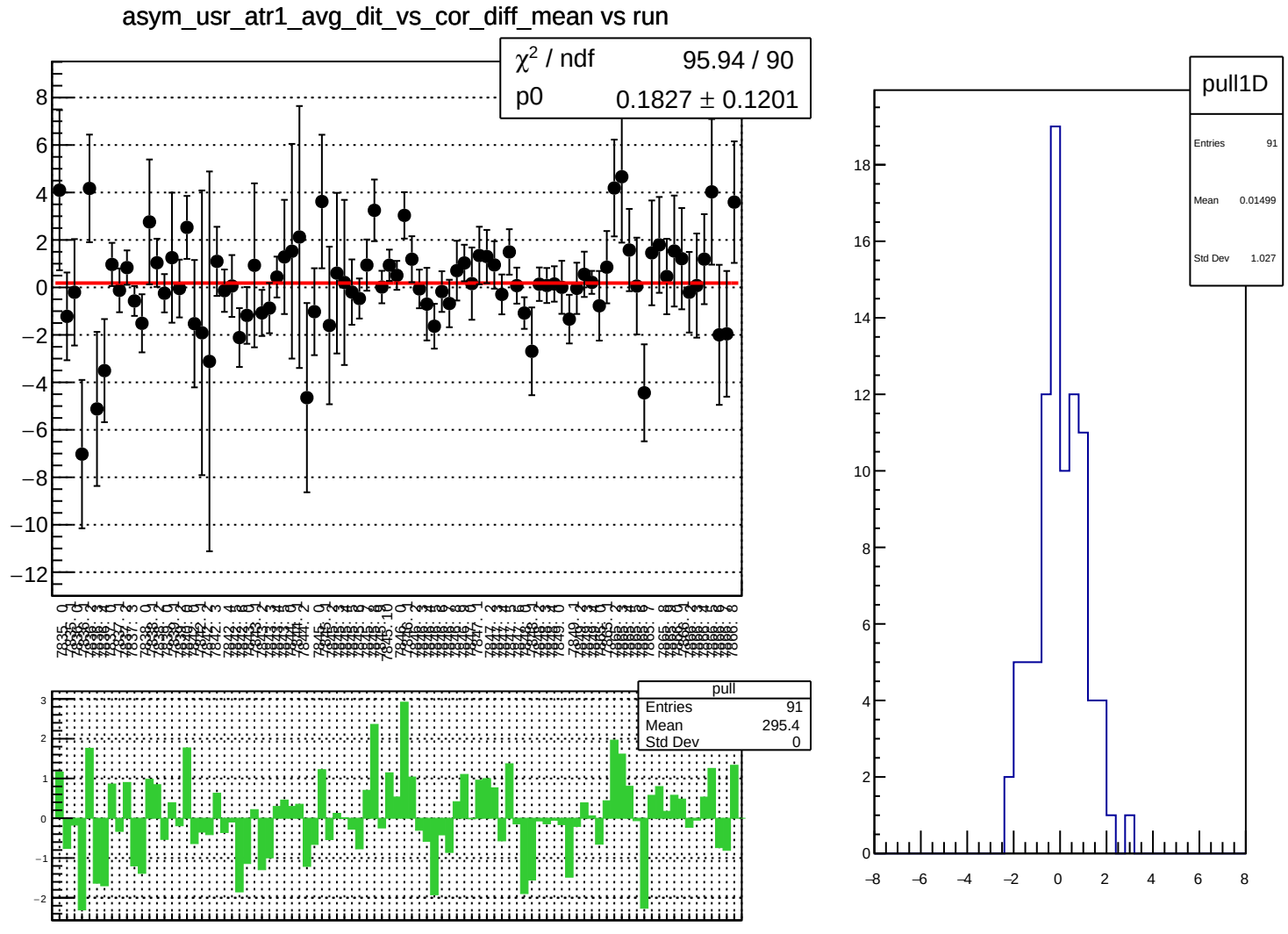

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 100.9 / 90
p0 8169 ± 3224
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −662.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

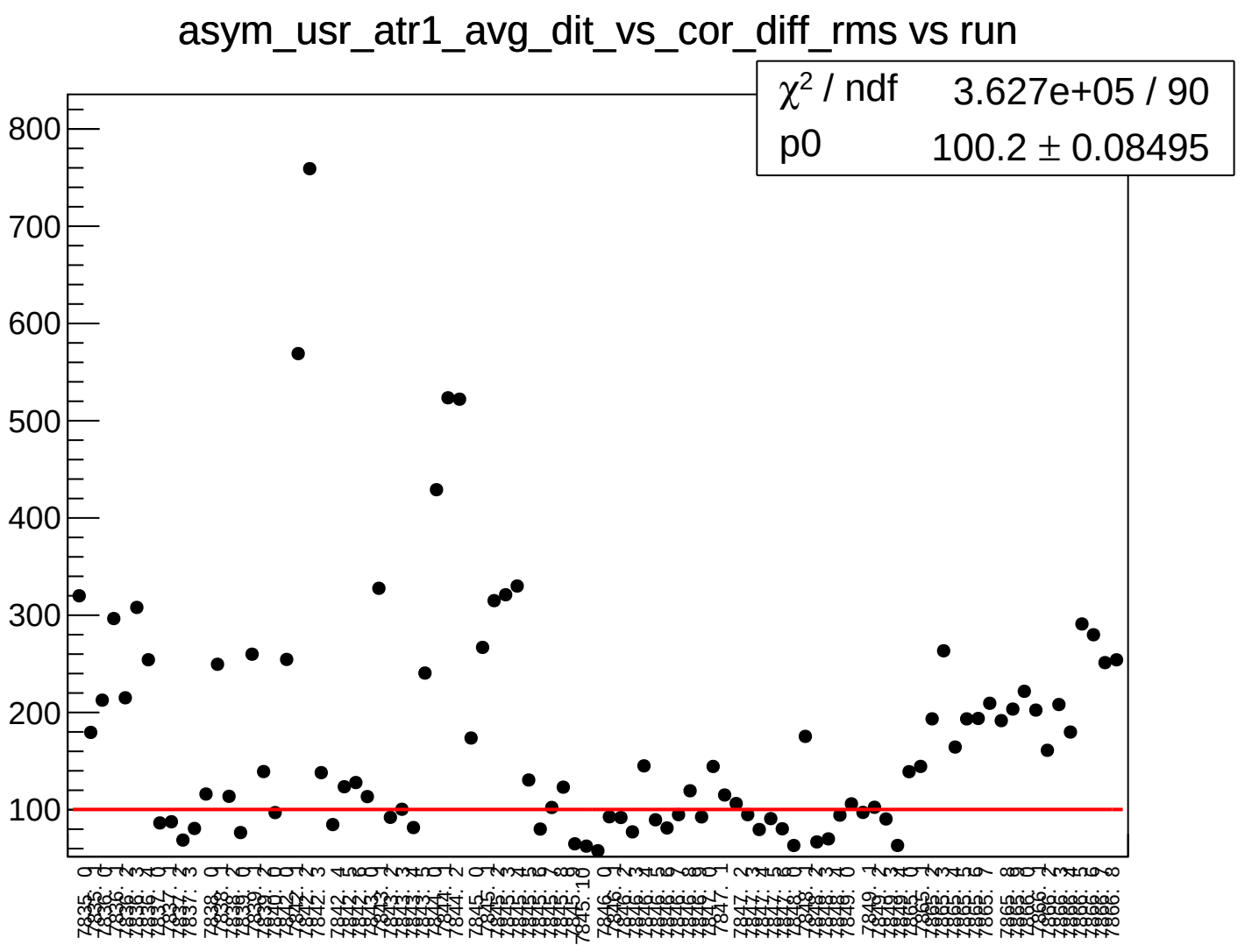

pull1D
Entries 91
Mean −0.005445
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

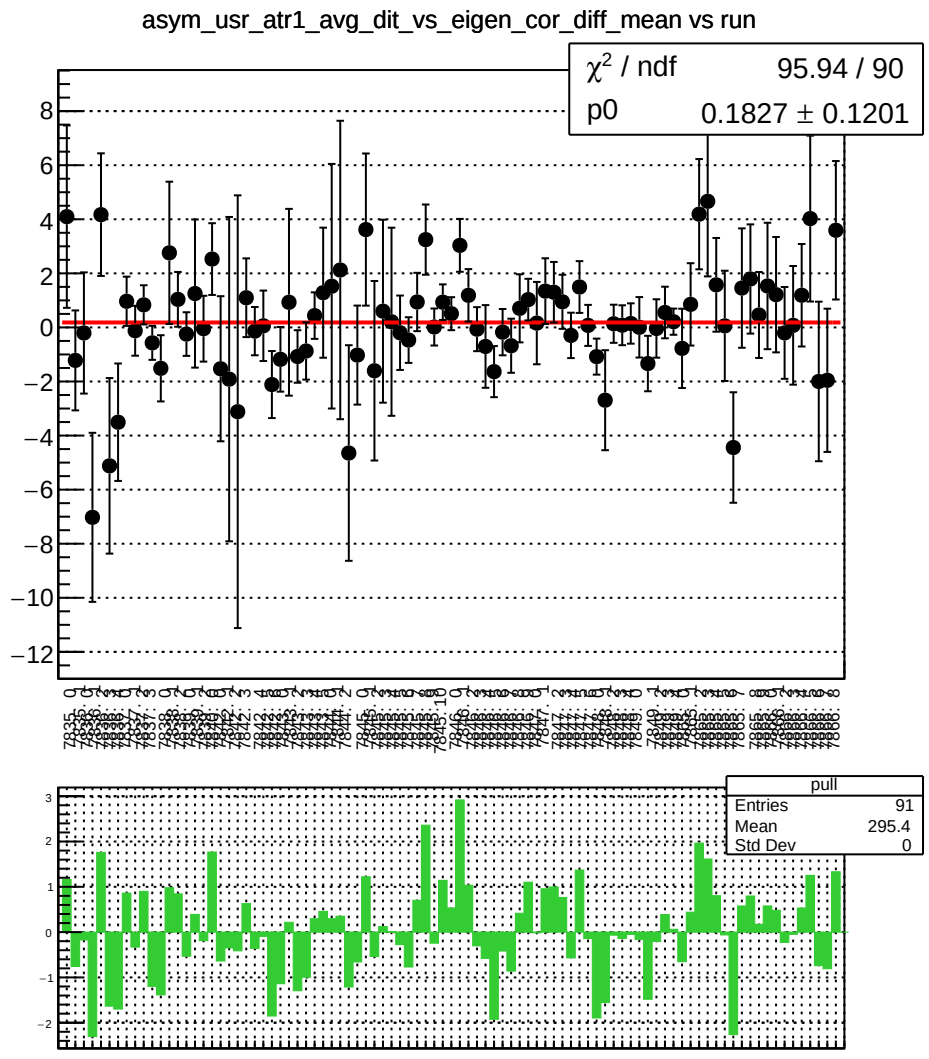

asym_usr_atr1_avg_rms vs run
χ² / ndf 2.442e+04 / 90
p0 2999 ± 2.28
4500
4000
3500
3000
2500

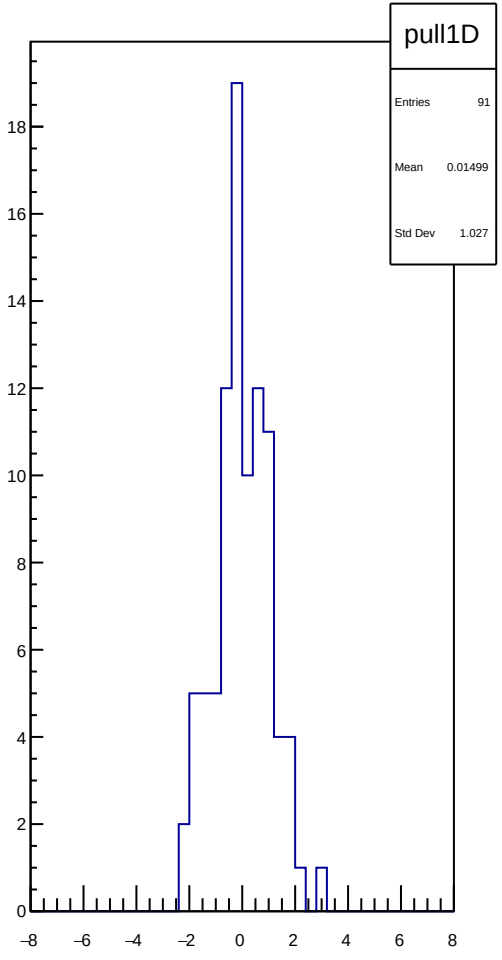

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 90
p0 5.757e−13 ± 5.65e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 62.53
Std Dev 40.01
pull1D
Entries 91
Mean −0.08413
Std Dev 1.065

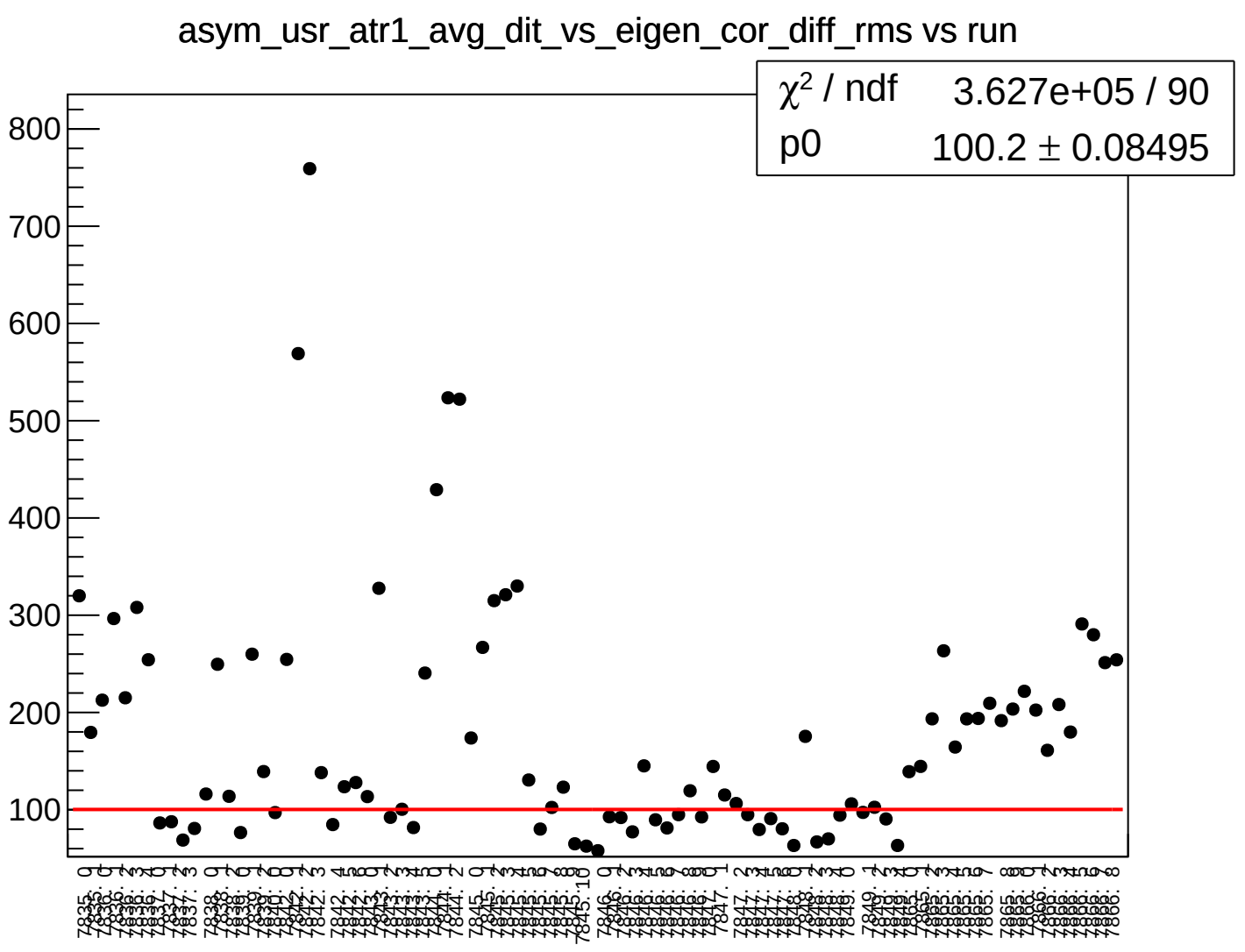

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 90
p0 3.296e−10 ± 3.995e−13
1.2
1
0.8
0.6
0.4
0.2
0

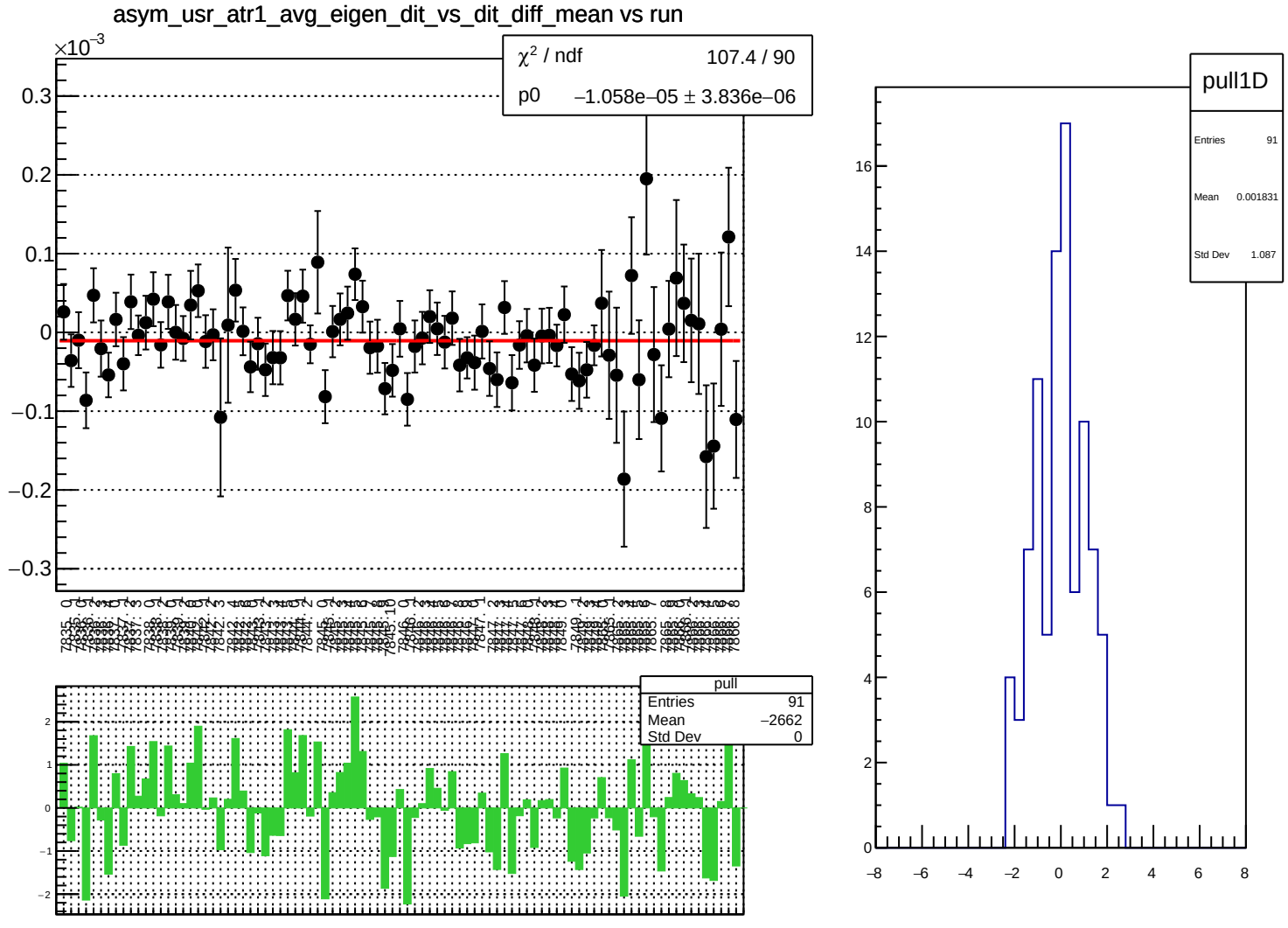

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.94 / 90
p0 0.1827 ± 0.1201
pull
Entries 91
Mean 295.4
Std Dev 0
pull1D
Entries 91
Mean 0.01499
Std Dev 1.027

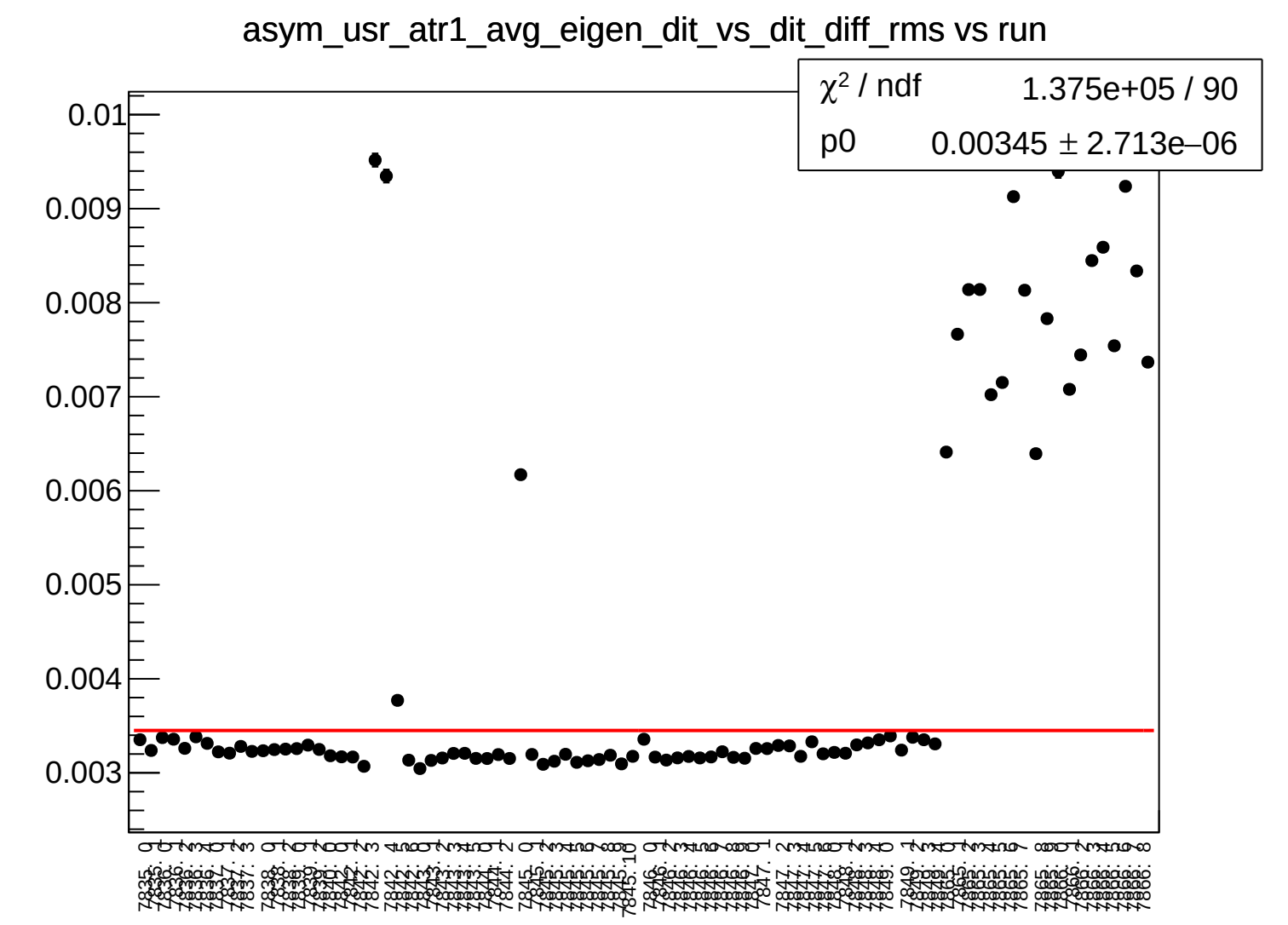

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.627e+05 / 90
p0 100.2 ± 0.08495
800
700
600
500
400
300
200
100

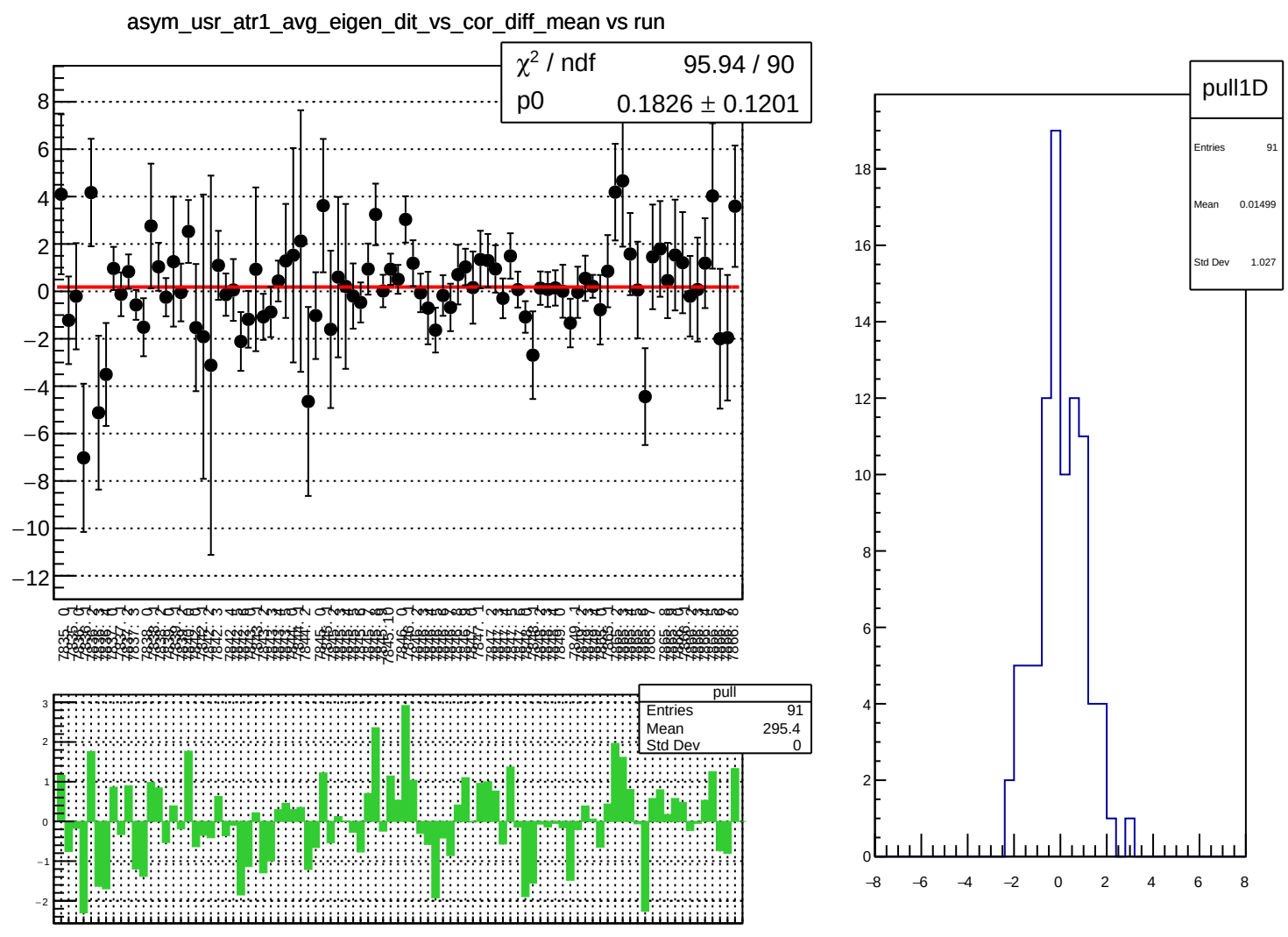

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.94 / 90
p0 0.1827 ± 0.1201
pull
Entries 91
Mean 295.4
Std Dev 0

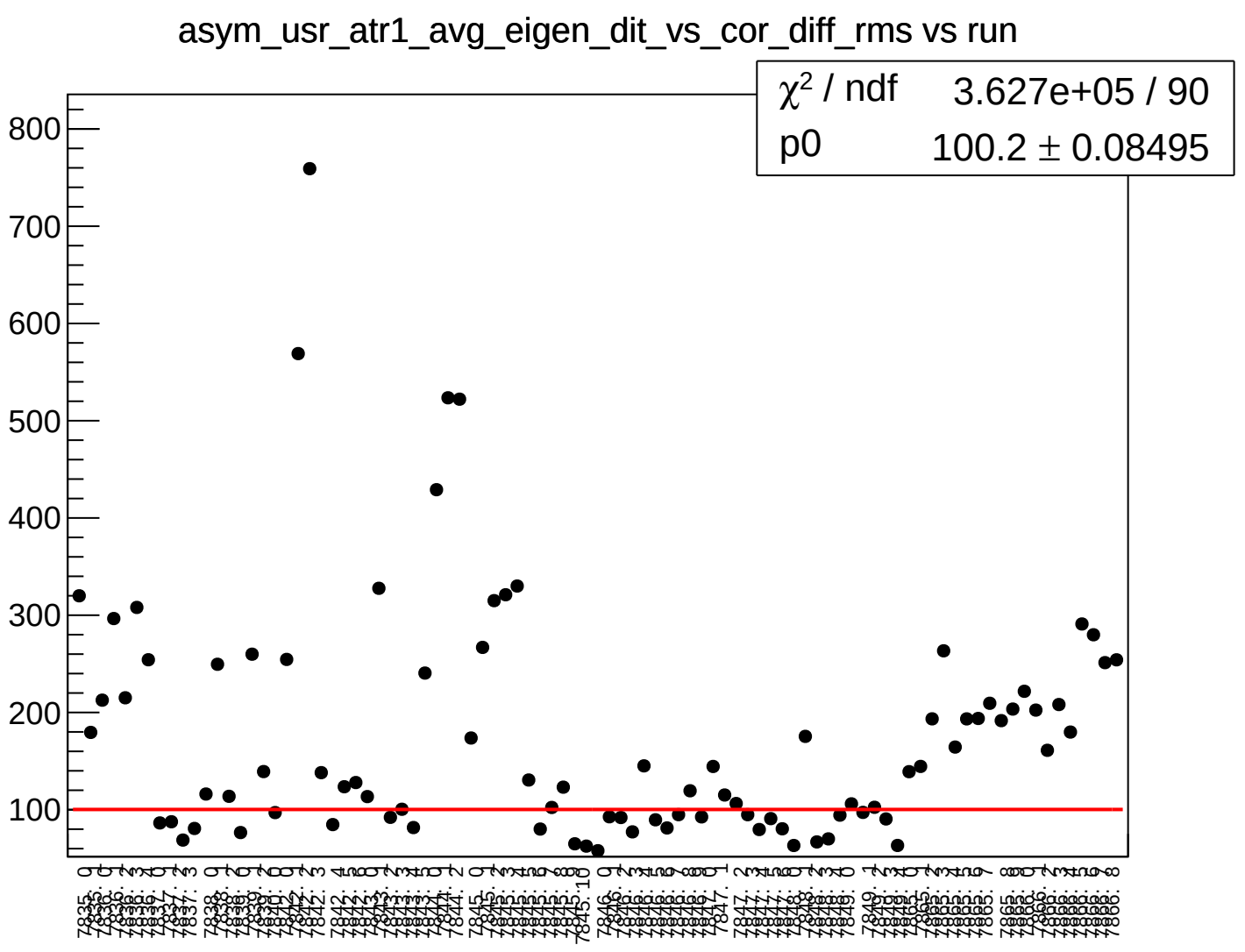

pull1D
Entries 91
Mean 0.01499
Std Dev 1.027

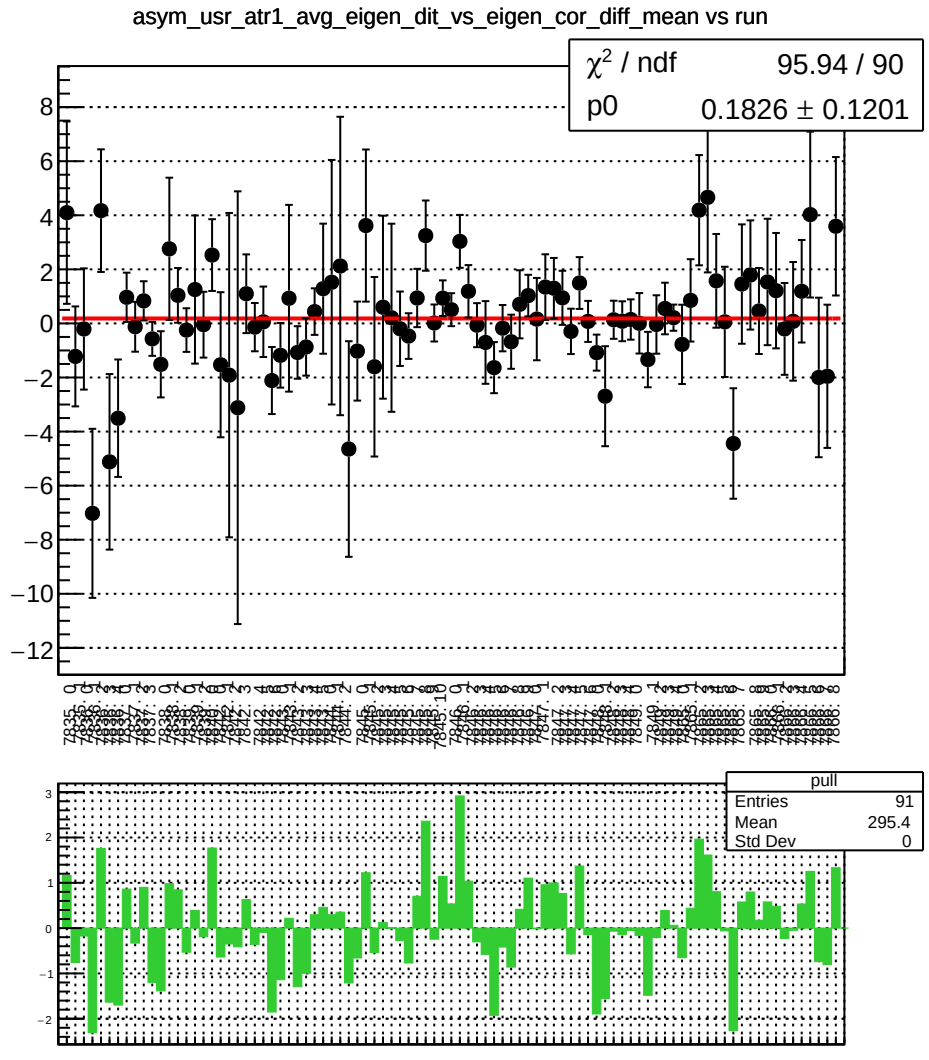

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.627e+05 / 90
p0 100.2 ± 0.08495
800
700
600
500
400
300
200
100

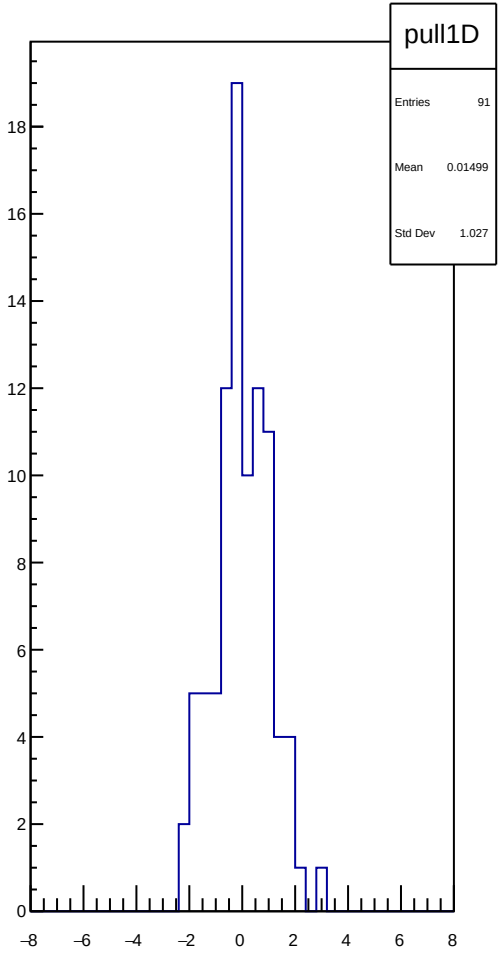

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.4 / 90
p0 −1.058e−05 ± 3.836e−06
pull
Entries 91
Mean −2662
Std Dev 0
pull1D
Entries 91
Mean 0.001831
Std Dev 1.087

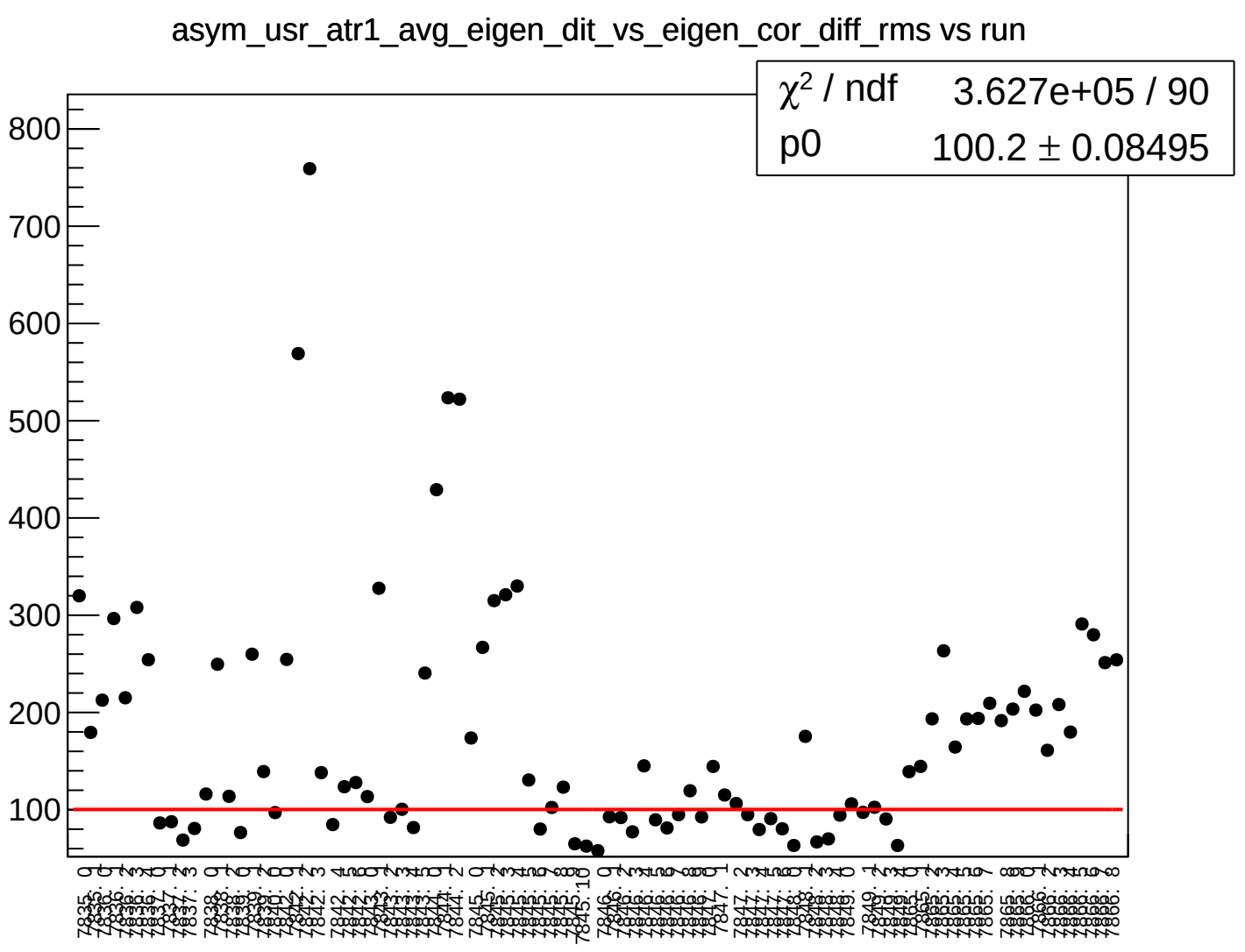

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.375e+05 / 90
p0 0.00345 ± 2.713e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

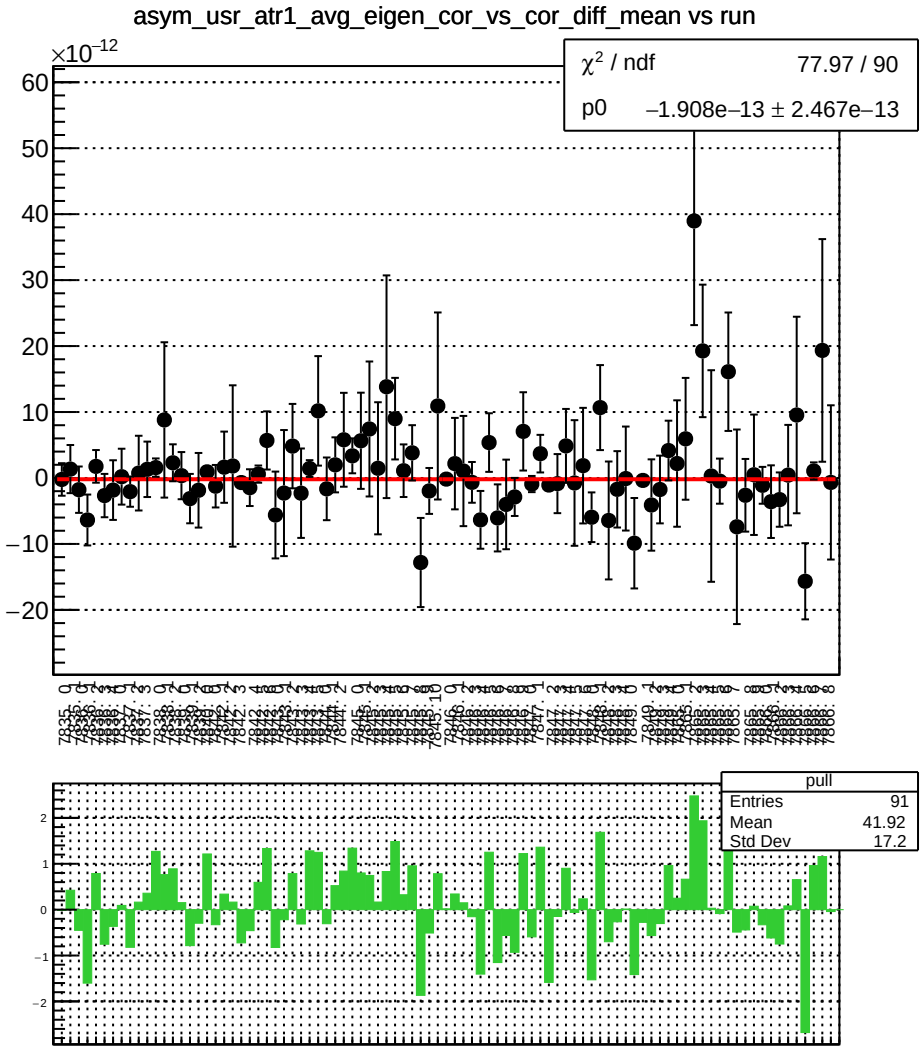

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.94 / 90
p0 0.1826 ± 0.1201
pull
Entries 91
Mean 295.4
Std Dev 0
pull1D
Entries 91
Mean 0.01499
Std Dev 1.027

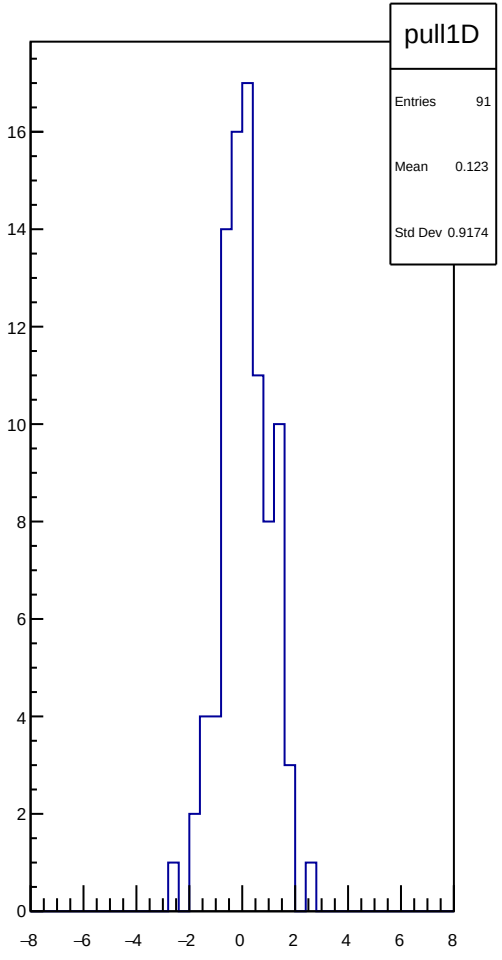

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.627e+05 / 90
p0 100.2 ± 0.08495
800
700
600
500
400
300
200
100

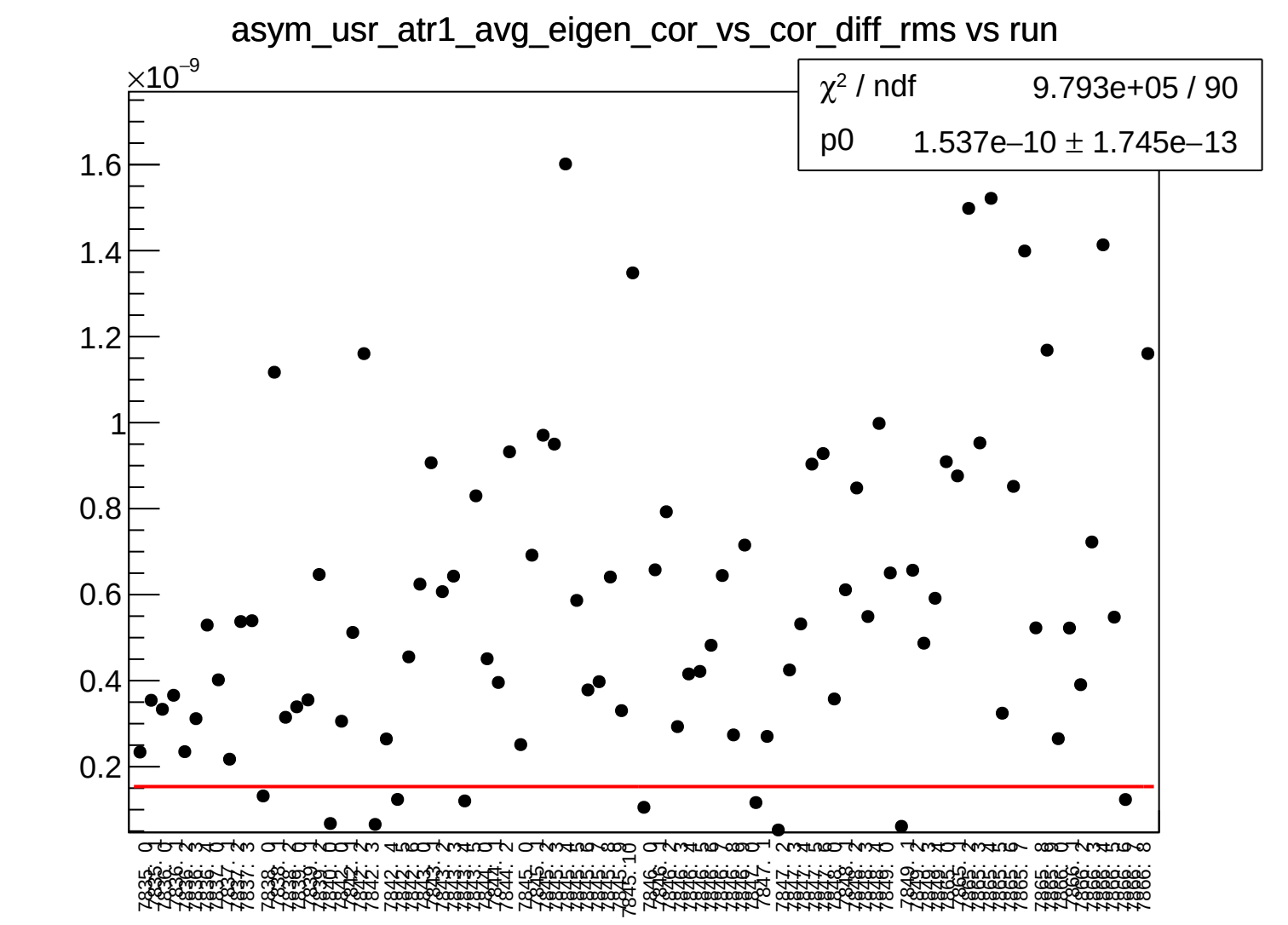

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.94 / 90
p0 0.1826 ± 0.1201
pull
Entries 91
Mean 295.4
Std Dev 0

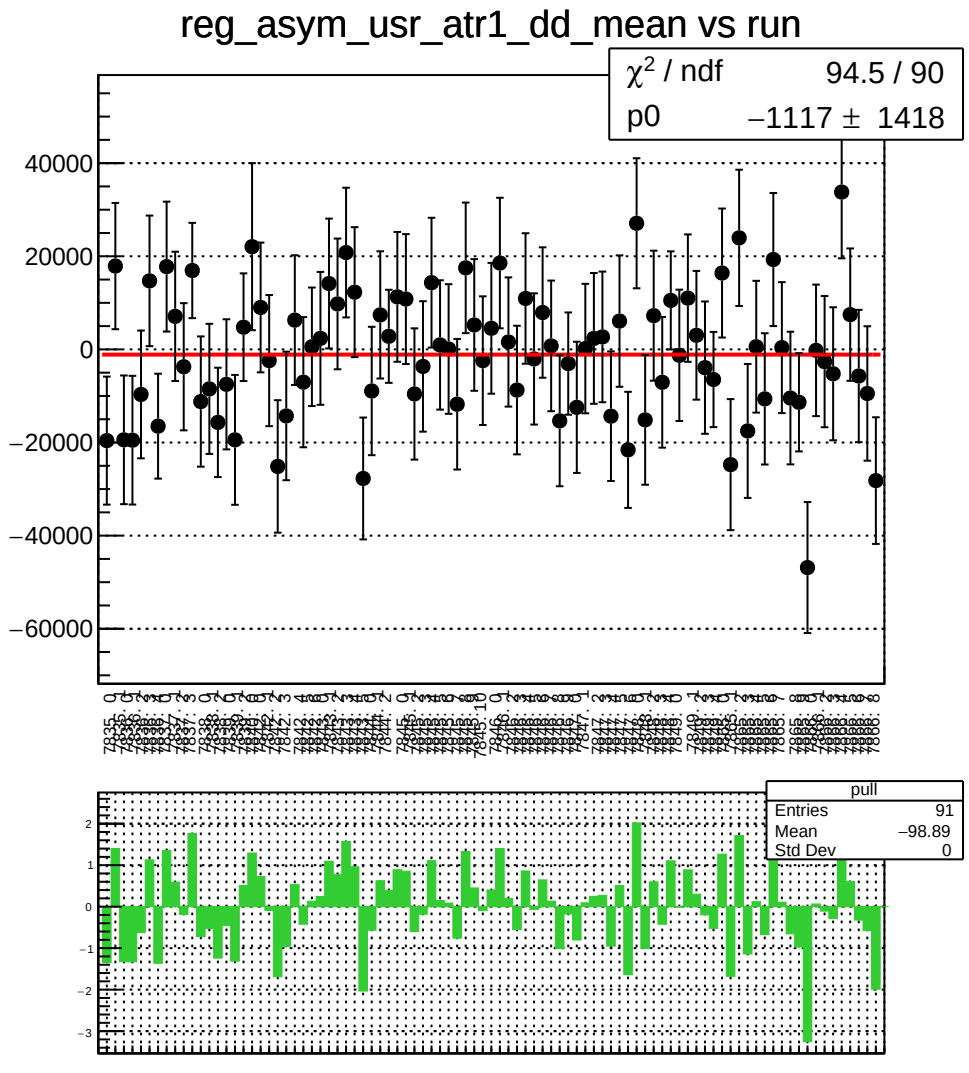

pull1D
Entries 91
Mean 0.01499
Std Dev 1.027

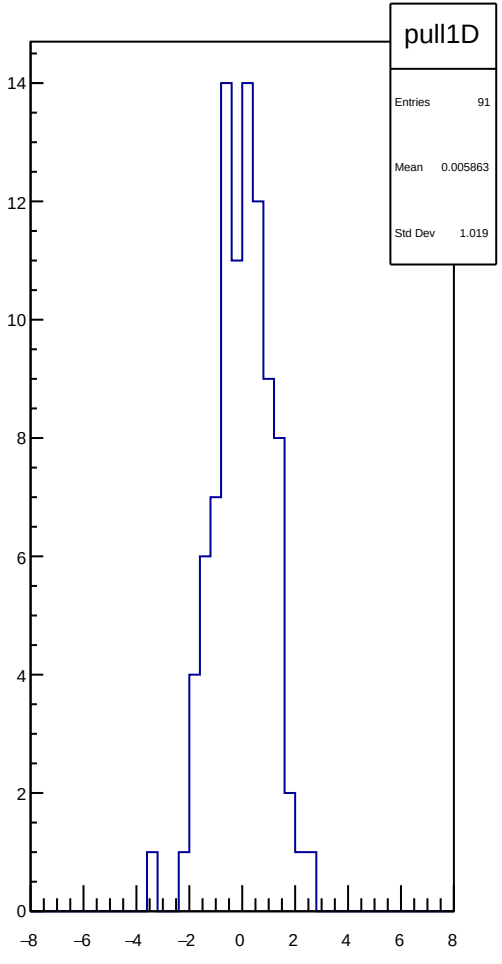

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.627e+05 / 90
p0 100.2 ± 0.08495
800
700
600
500
400
300
200
100

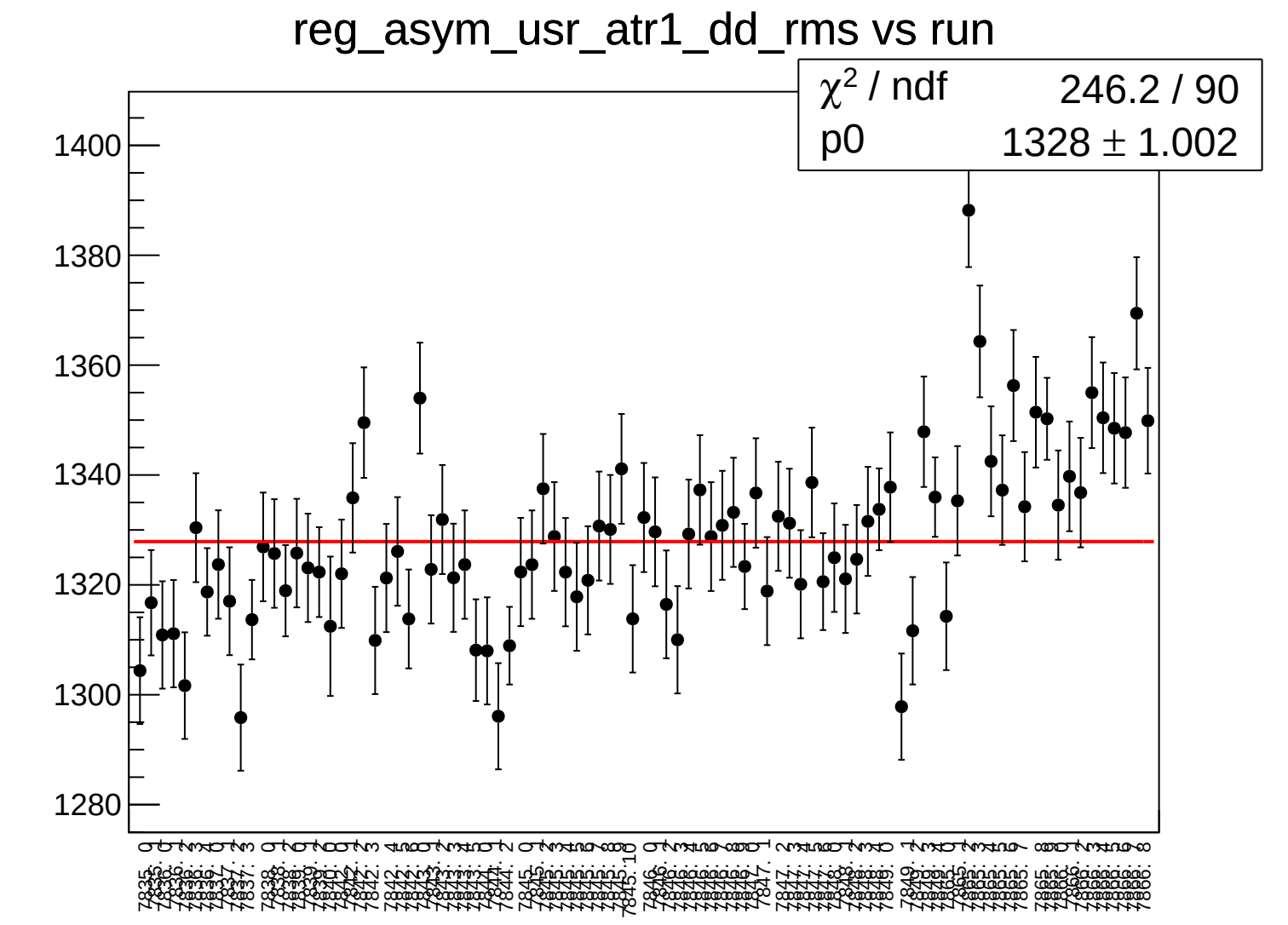

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.97 / 90
p0 −1.908e−13 ± 2.467e−13
pull
Entries 91
Mean 41.92
Std Dev 17.2

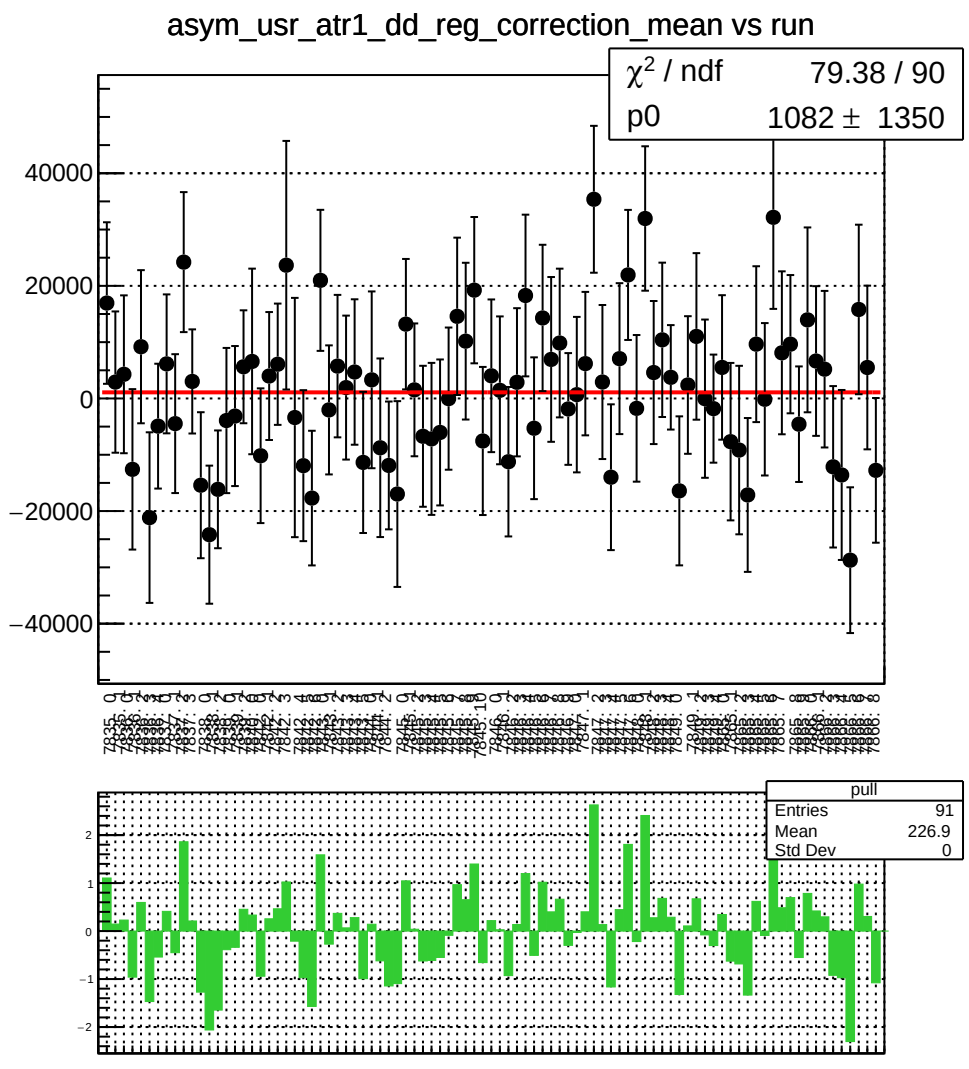

pull1D
Entries 91
Mean 0.123
Std Dev 0.9174

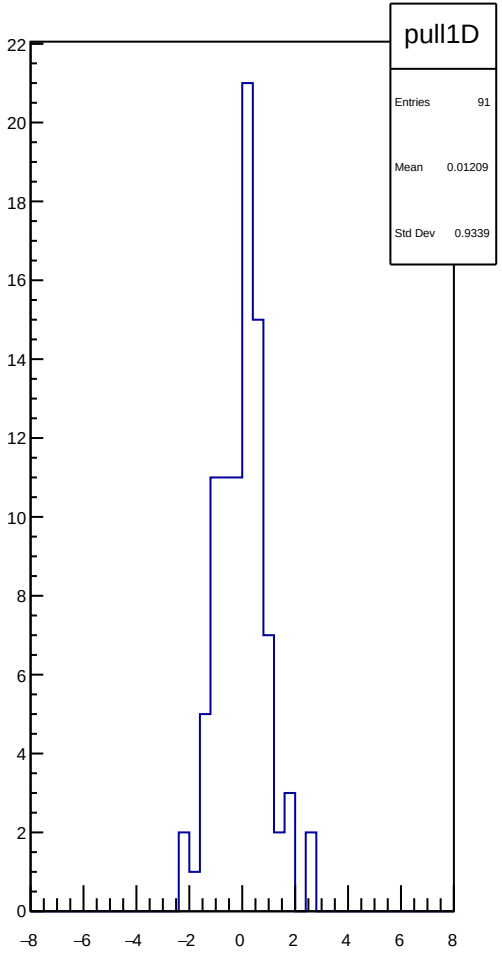

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.793e+05 / 90
p0 1.537e−10 ± 1.745e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

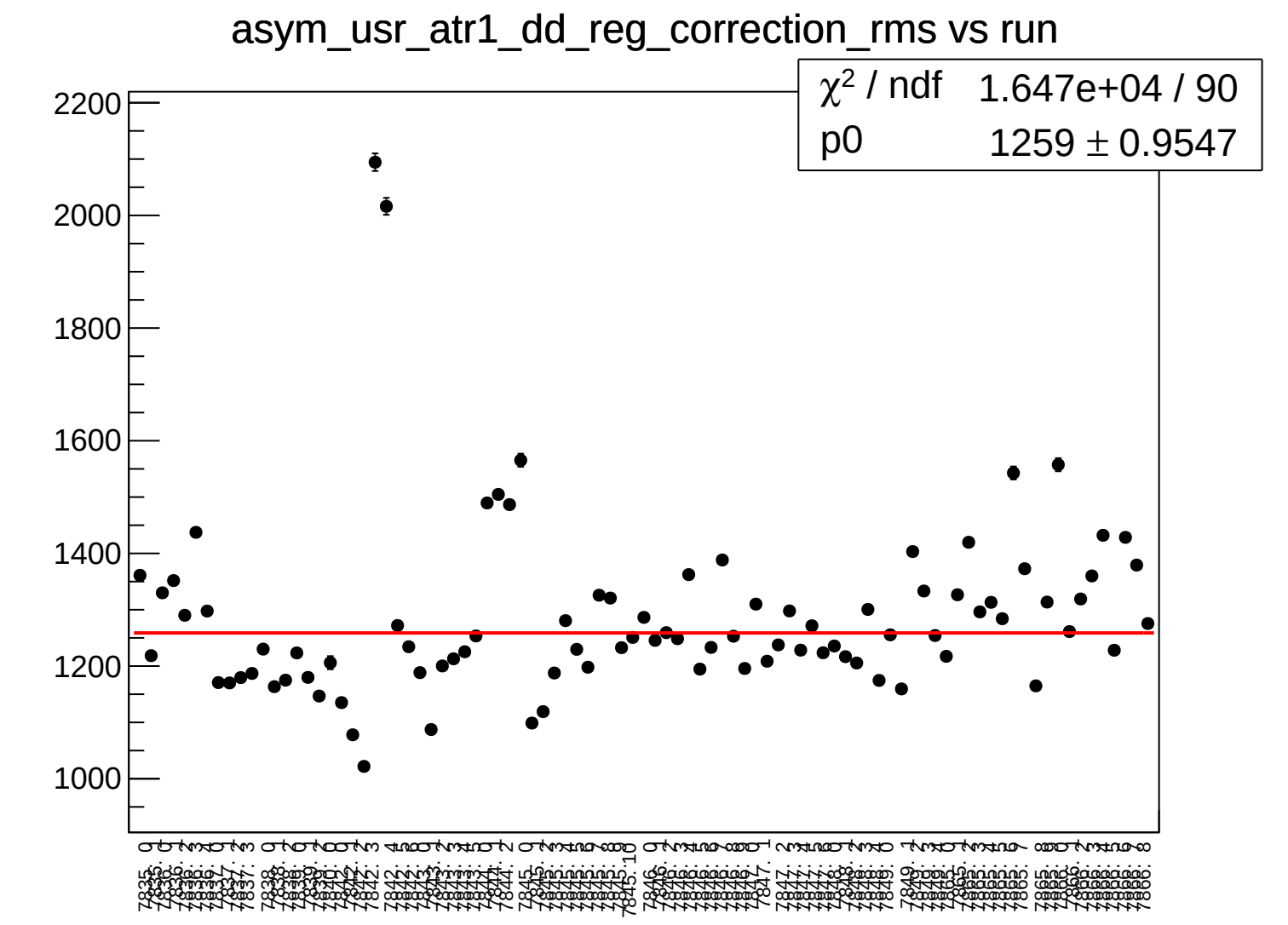

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 94.5 / 90
p0 −1117 ± 1418
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −98.89
Std Dev 0
2
1
0
−1
−2
−3

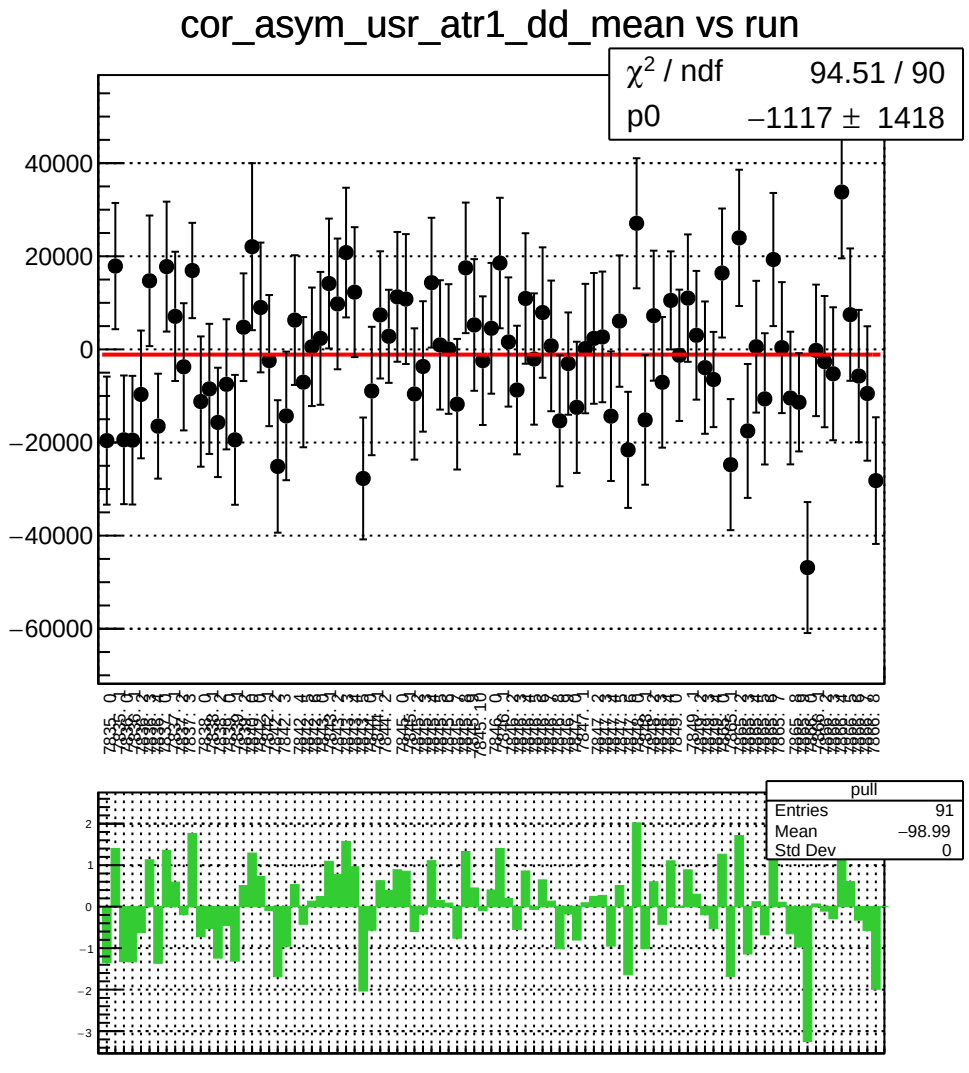

pull1D
Entries 91
Mean 0.005863
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

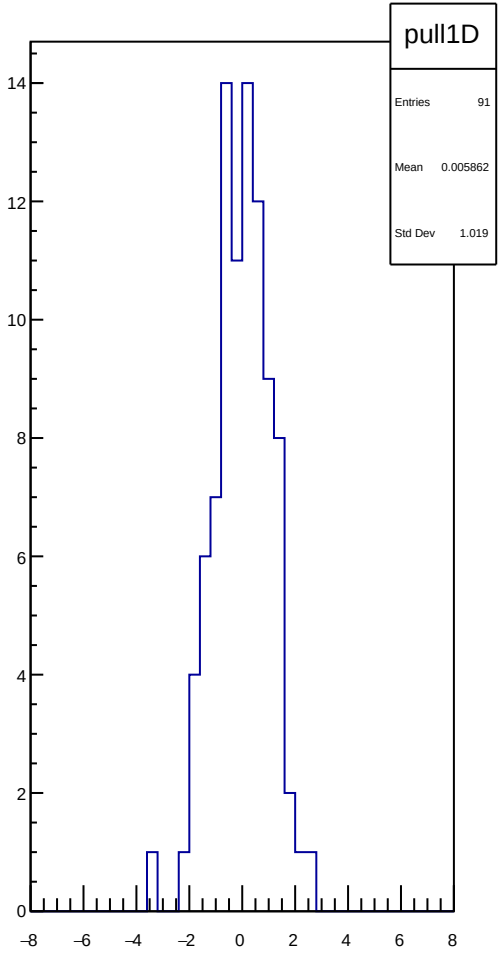

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 246.2 / 90
p0 1328 ± 1.002
1400
1380
1360
1340
1320
1300
1280

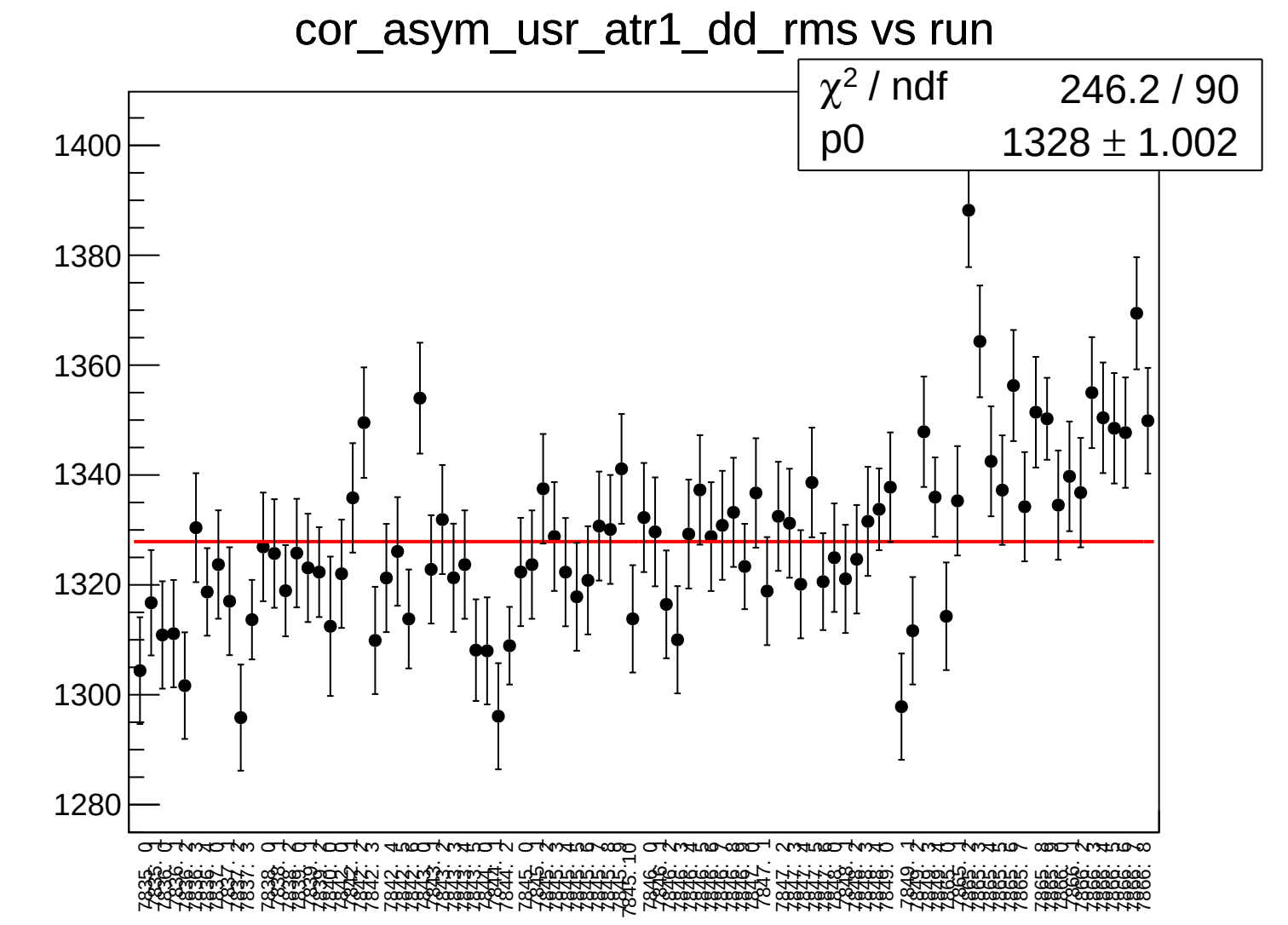

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 79.38 / 90
p0 1082 ± 1350
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 226.9
Std Dev 0
2
1
0
−1
−2

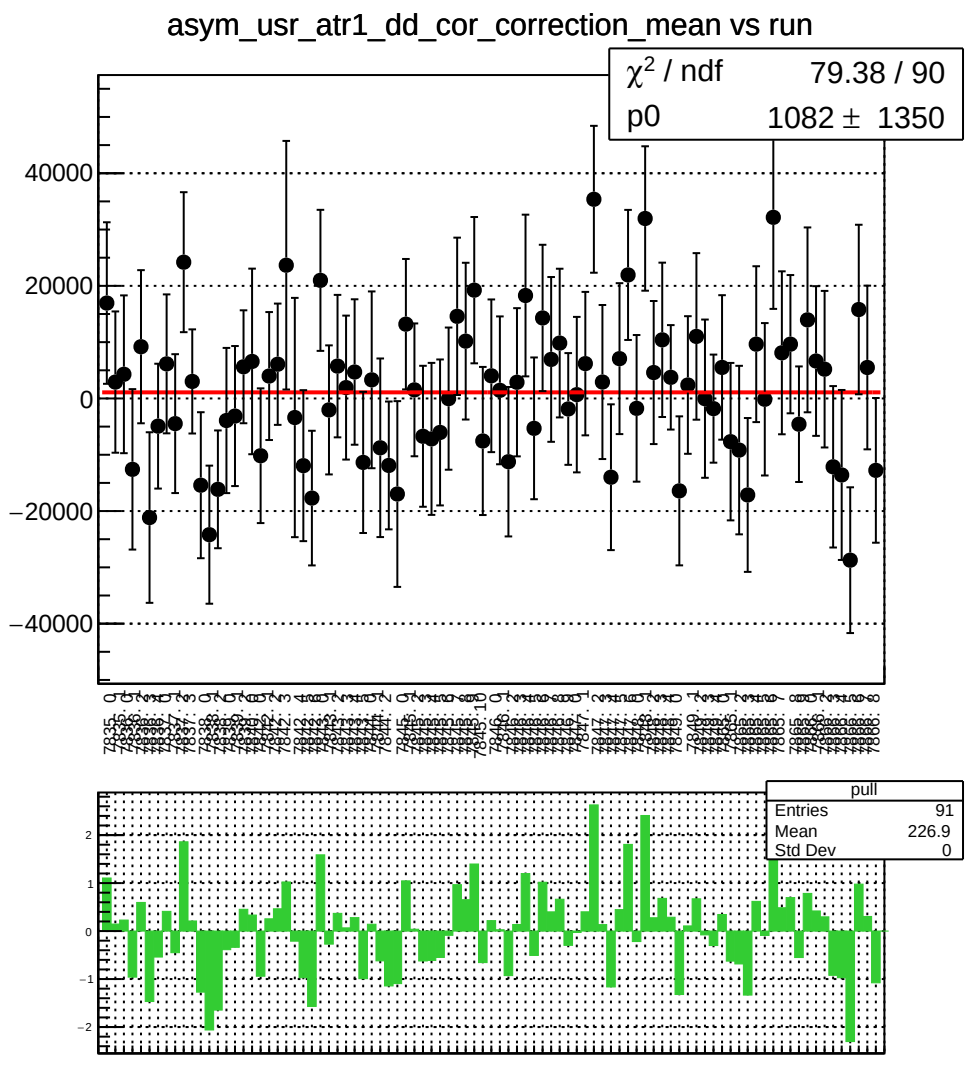

pull1D
Entries 91
Mean 0.01209
Std Dev 0.9339
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

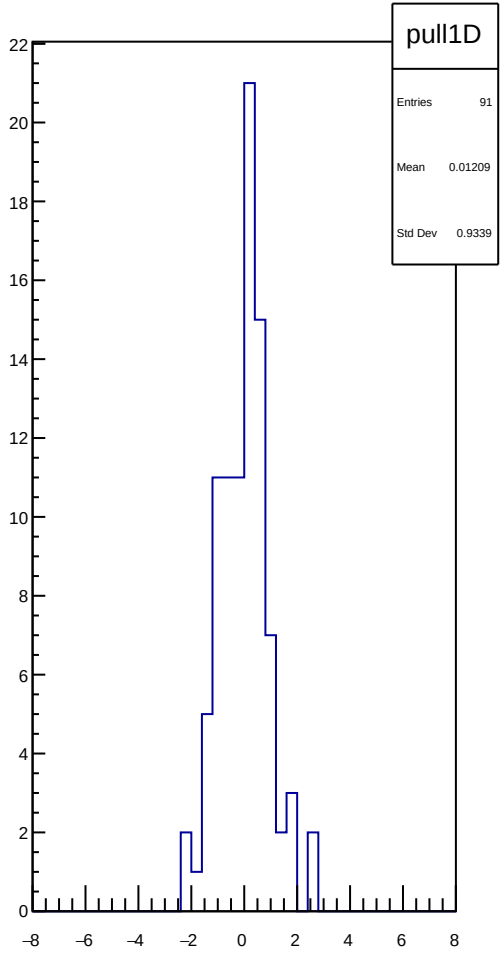

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.647e+04 / 90
p0 1259 ± 0.9547
2200
2000
1800
1600
1400
1200
1000

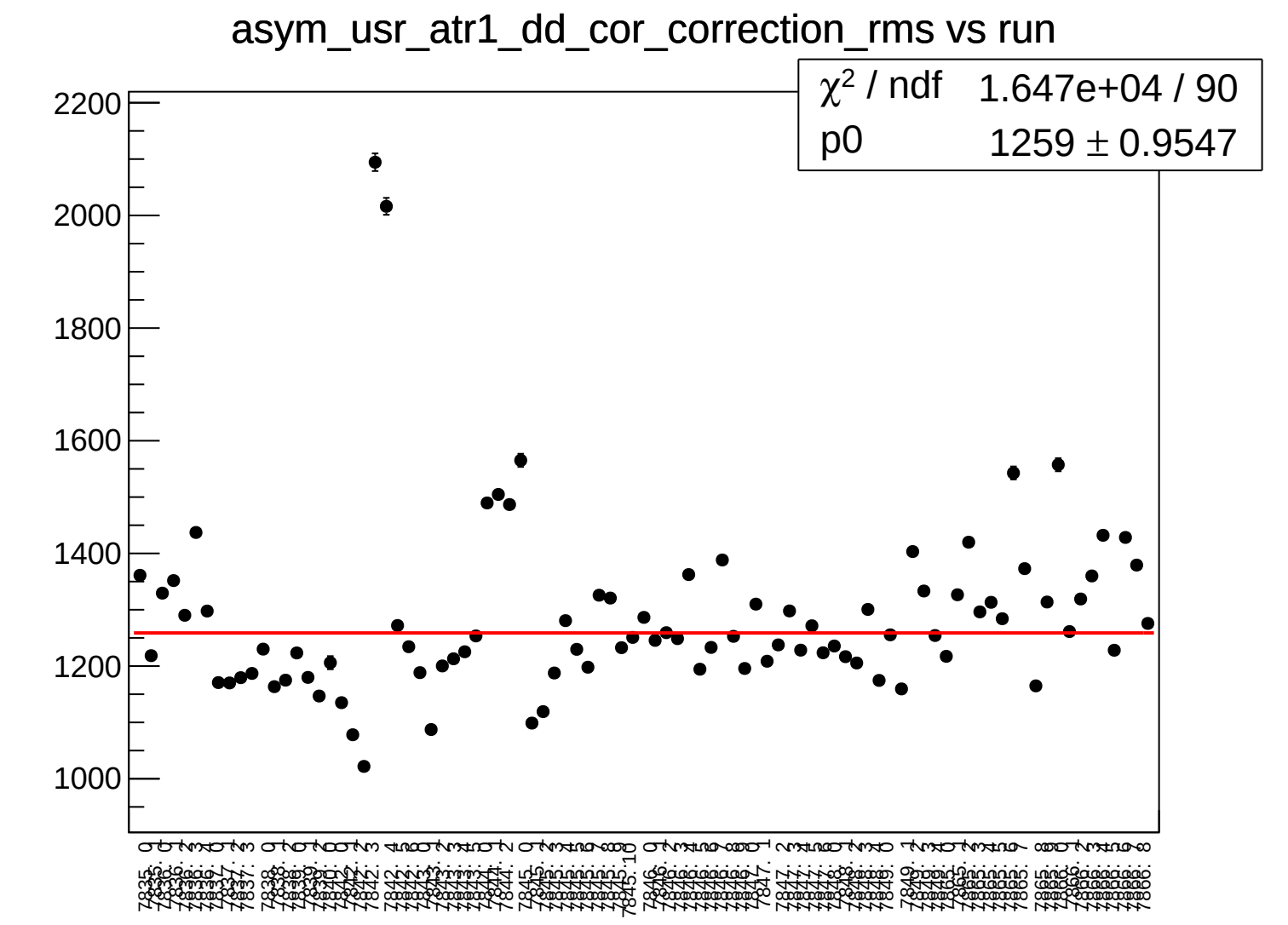

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 94.51 / 90
p0 −1117 ± 1418
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −98.99
Std Dev 0
2
1
0
−1
−2
−3

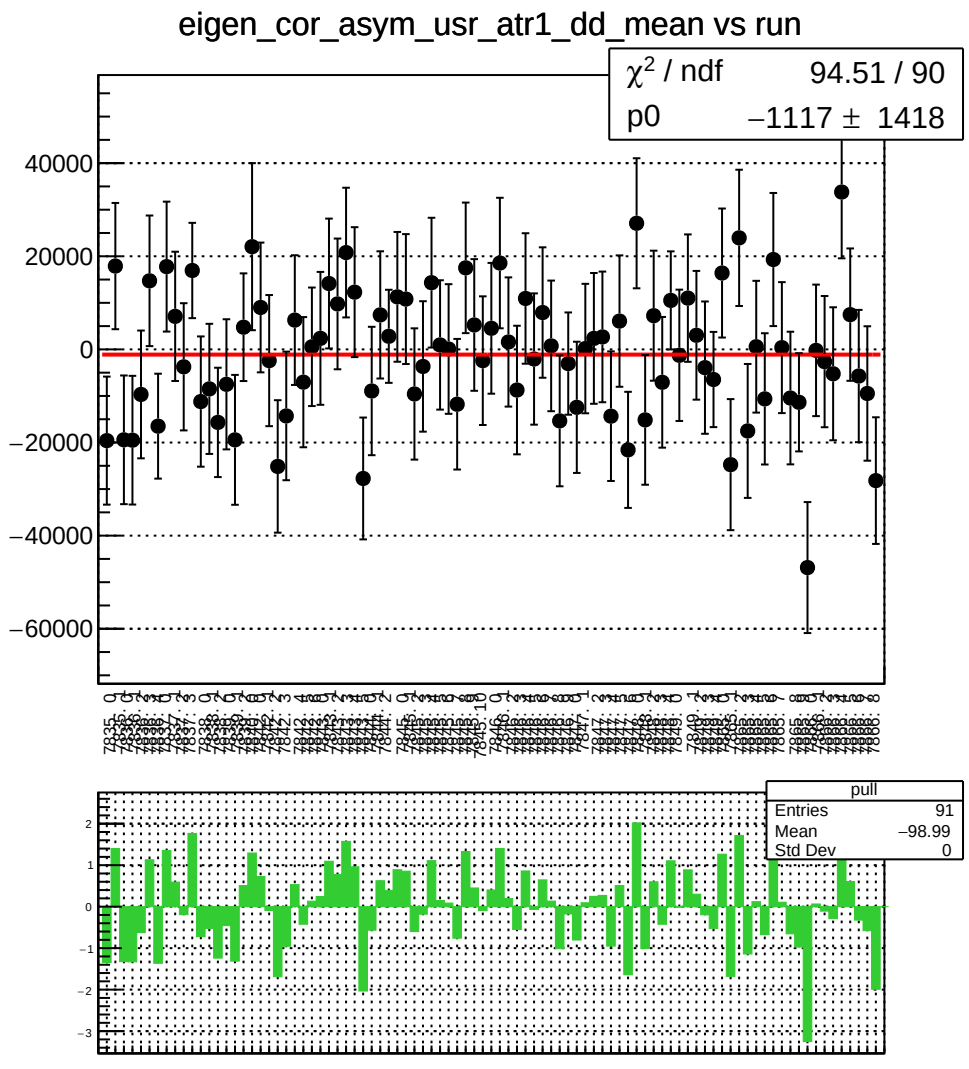

pull1D
Entries 91
Mean 0.005862
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

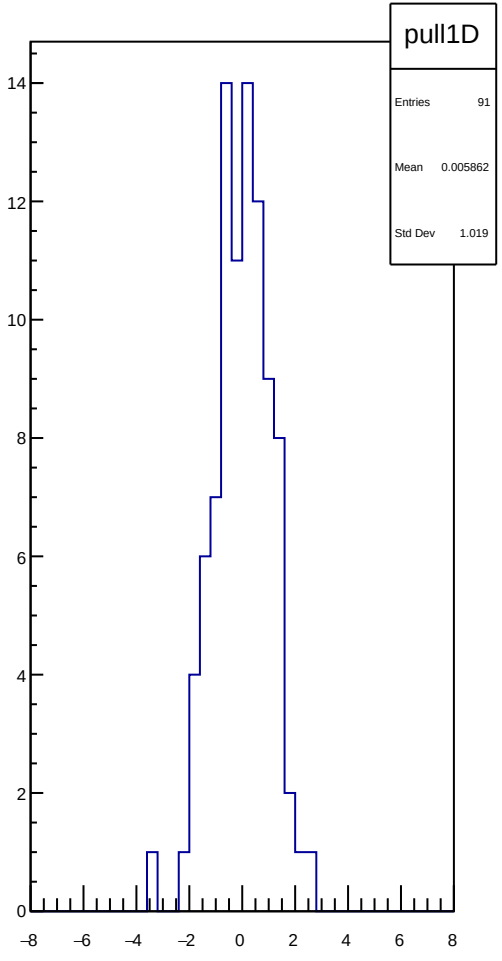

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 246.2 / 90
p0 1328 ± 1.002
1400
1380
1360
1340
1320
1300
1280

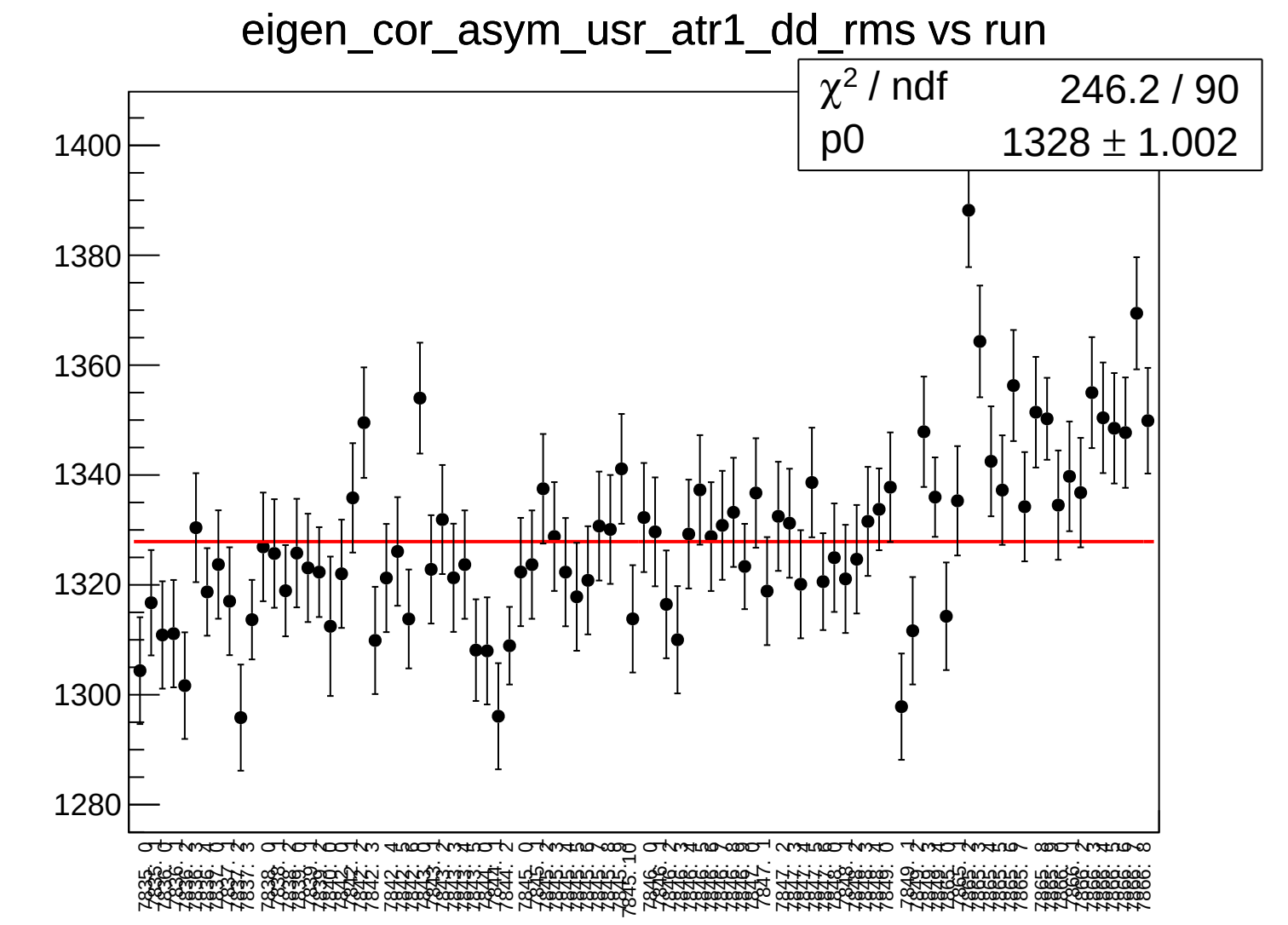

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 79.38 / 90
p0 1082 ± 1350
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 226.9
Std Dev 0
2
1
0
−1
−2

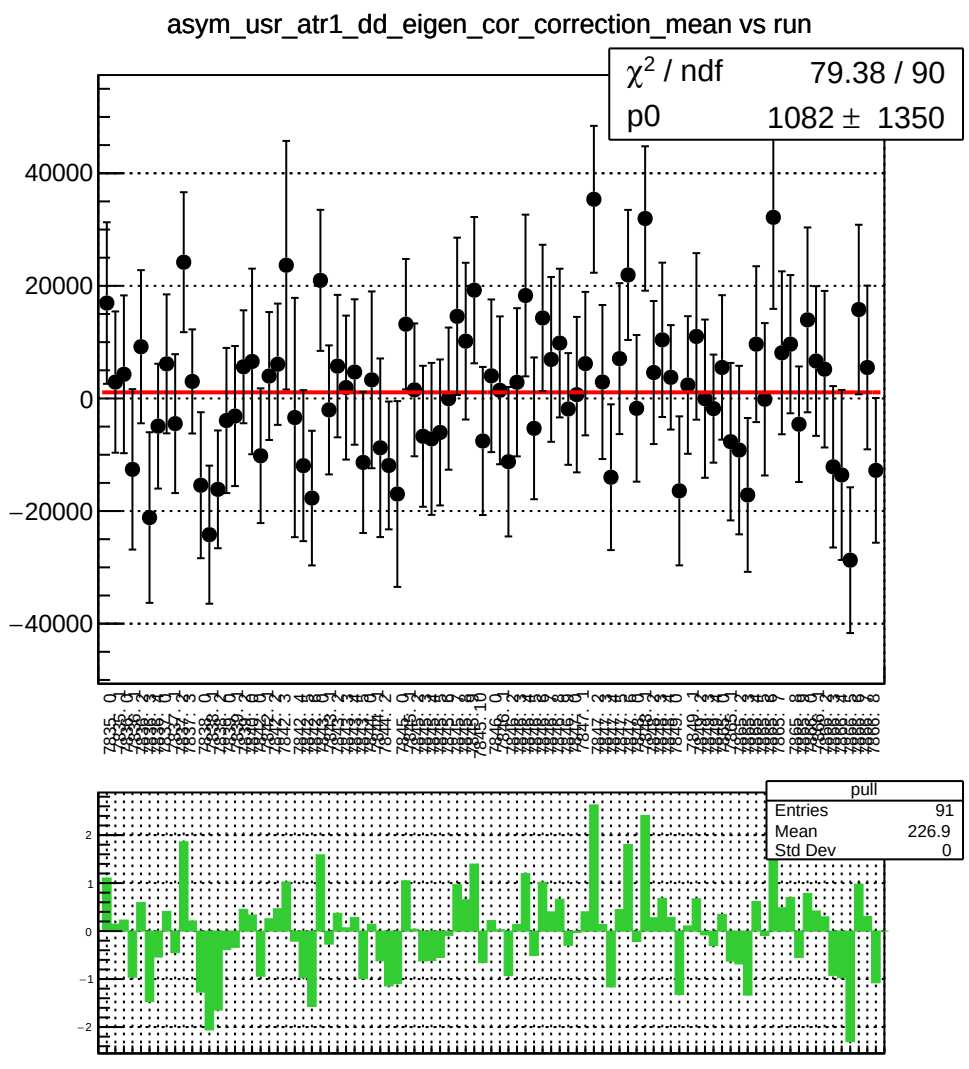

pull1D
Entries 91
Mean 0.01209
Std Dev 0.9339
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

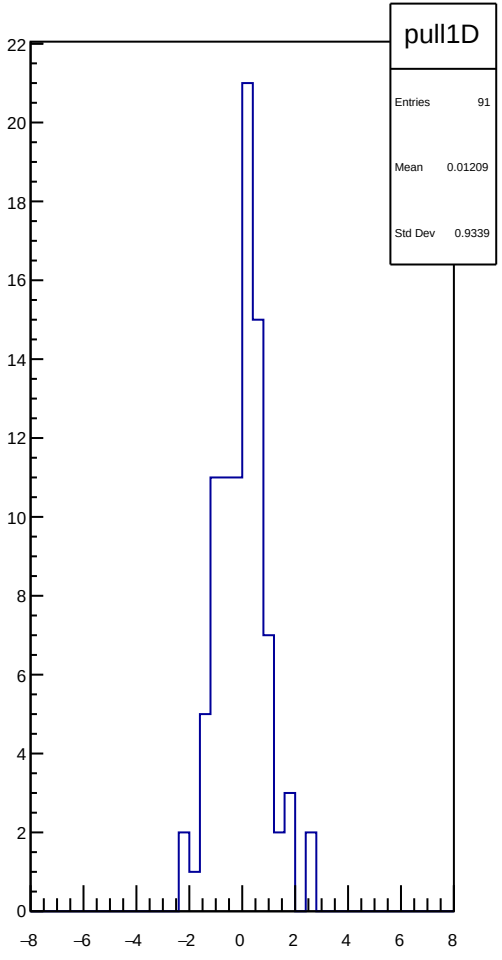

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.647e+04 / 90
p0 1259 ± 0.9547
2200
2000
1800
1600
1400
1200
1000

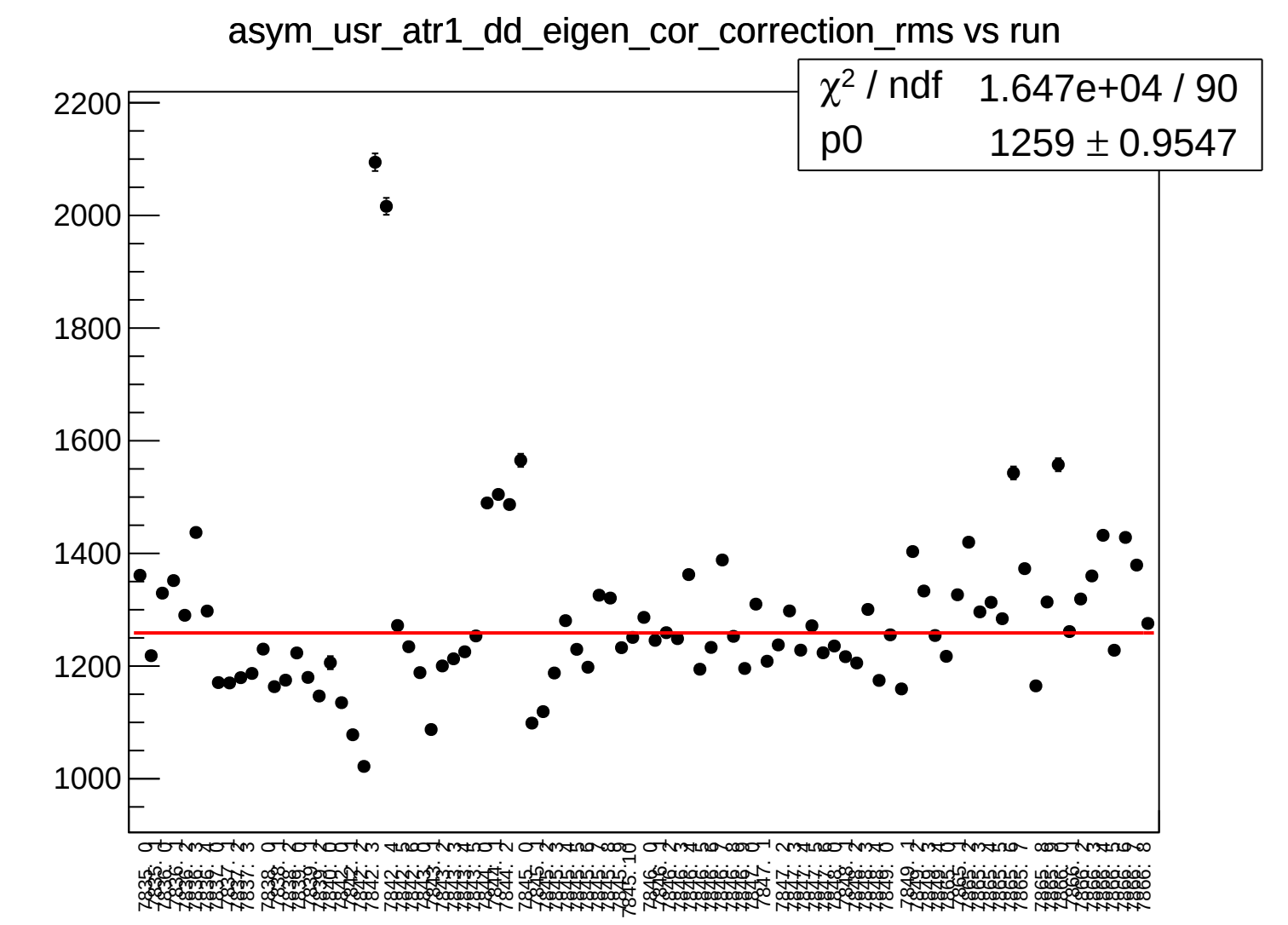

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 94.51 / 90
p0 −1117 ± 1418
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −98.99
Std Dev 0
2
1
0
−1
−2
−3

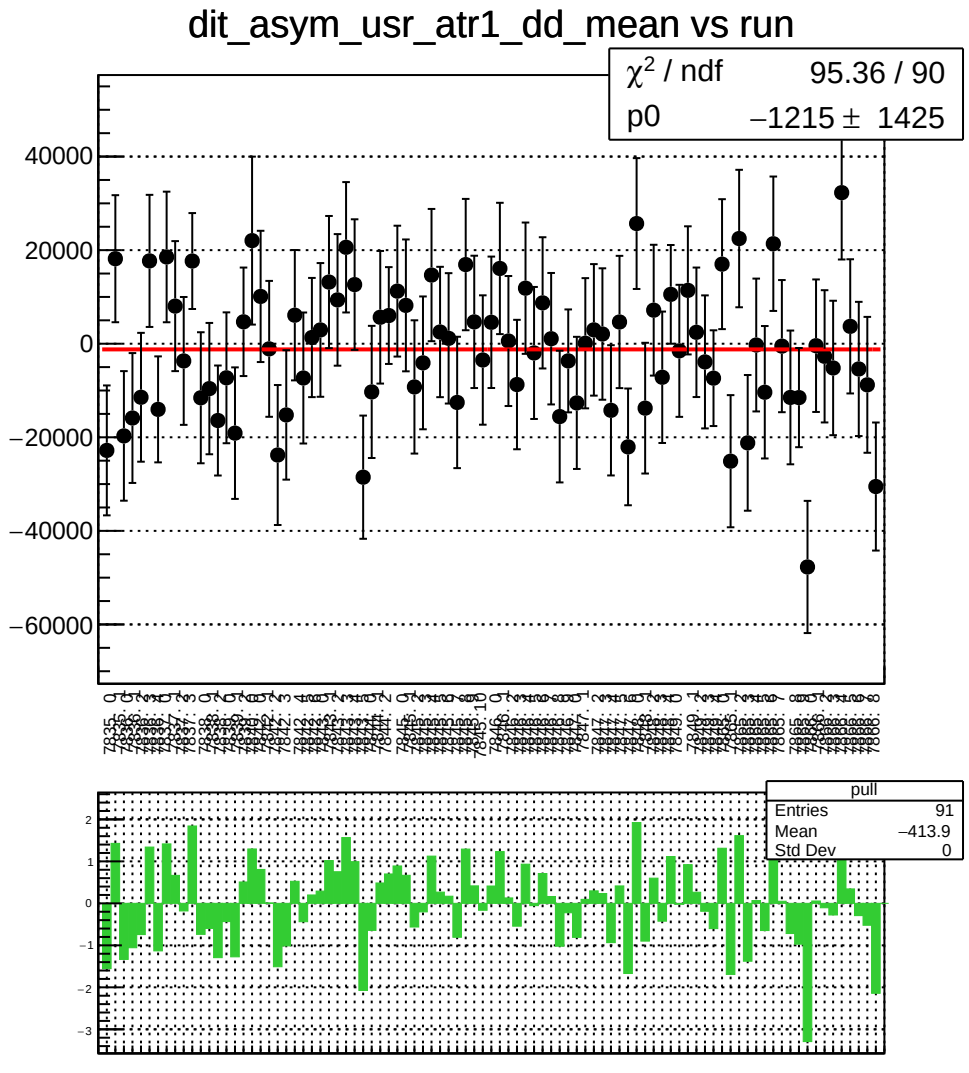

pull1D
Entries 91
Mean 0.005862
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

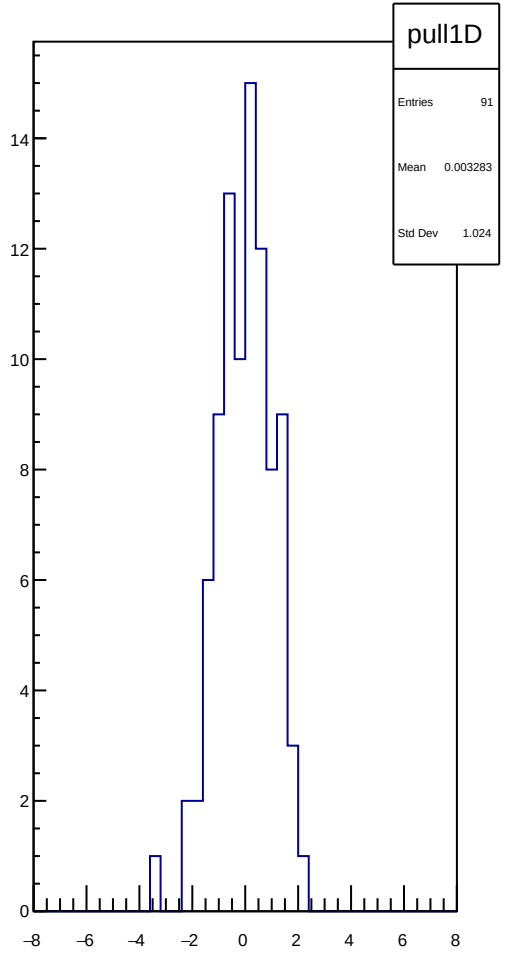

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 246.2 / 90
p0 1328 ± 1.002
1400
1380
1360
1340
1320
1300
1280

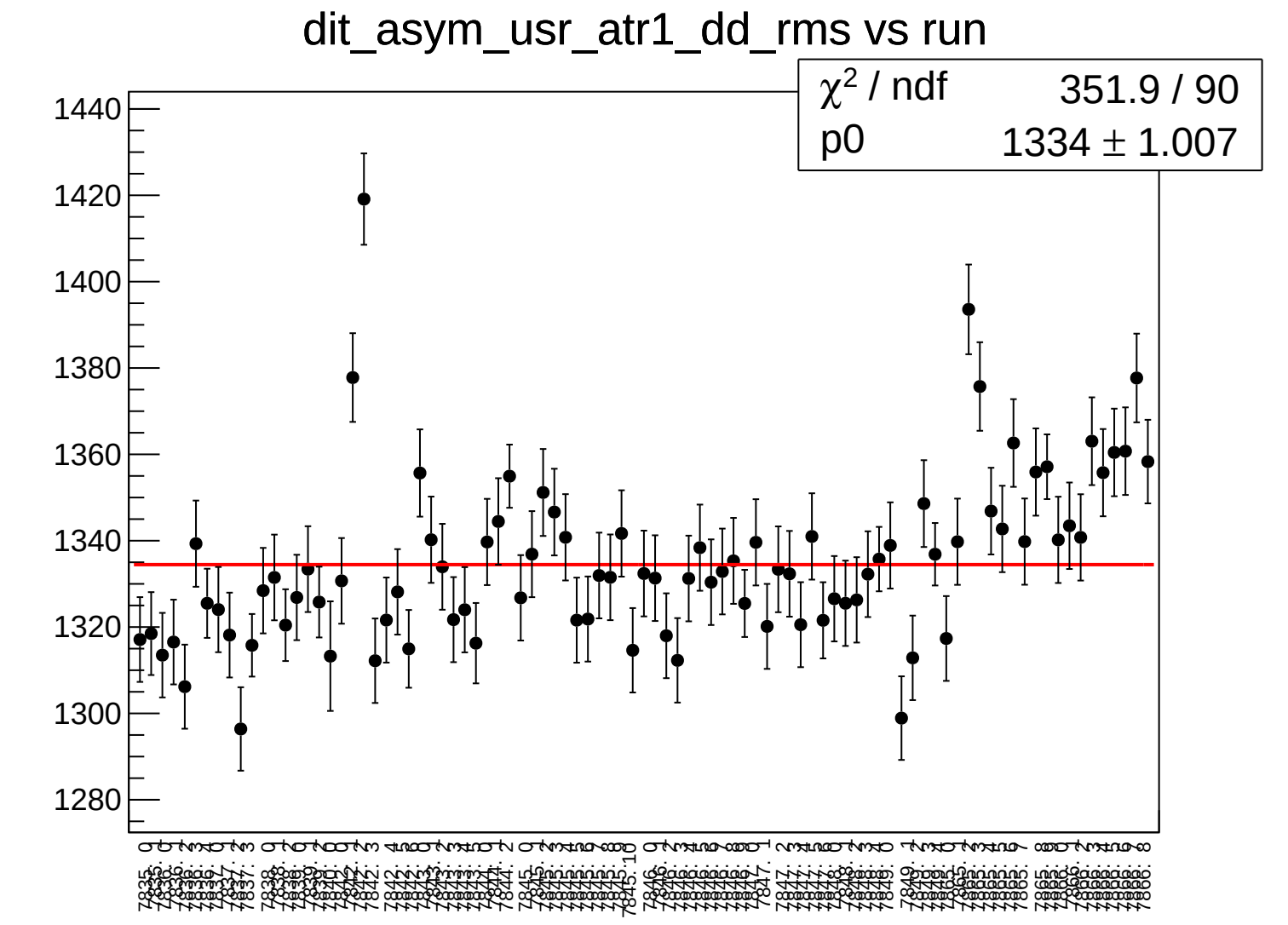

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.38 / 90
p0 1082 ± 1350
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 226.9
Std Dev 0
2
1
0
−1
−2

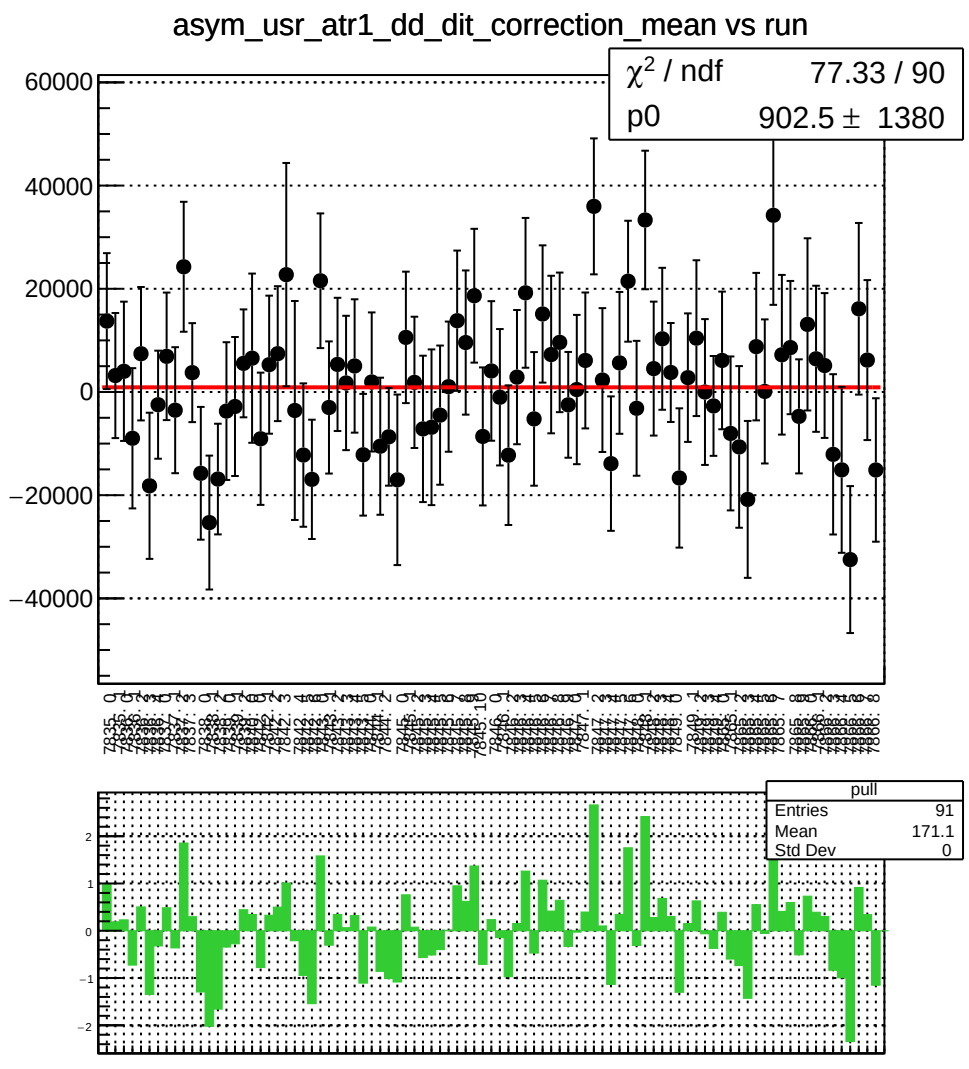

pull1D
Entries 91
Mean 0.01209
Std Dev 0.9339
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

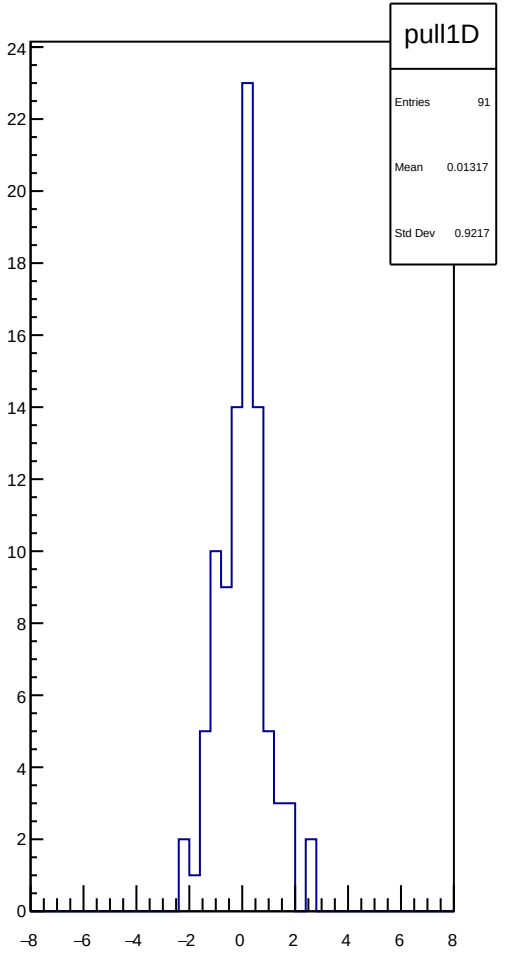

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.647e+04 / 90
p0 1259 ± 0.9547
2200
2000
1800
1600
1400
1200
1000

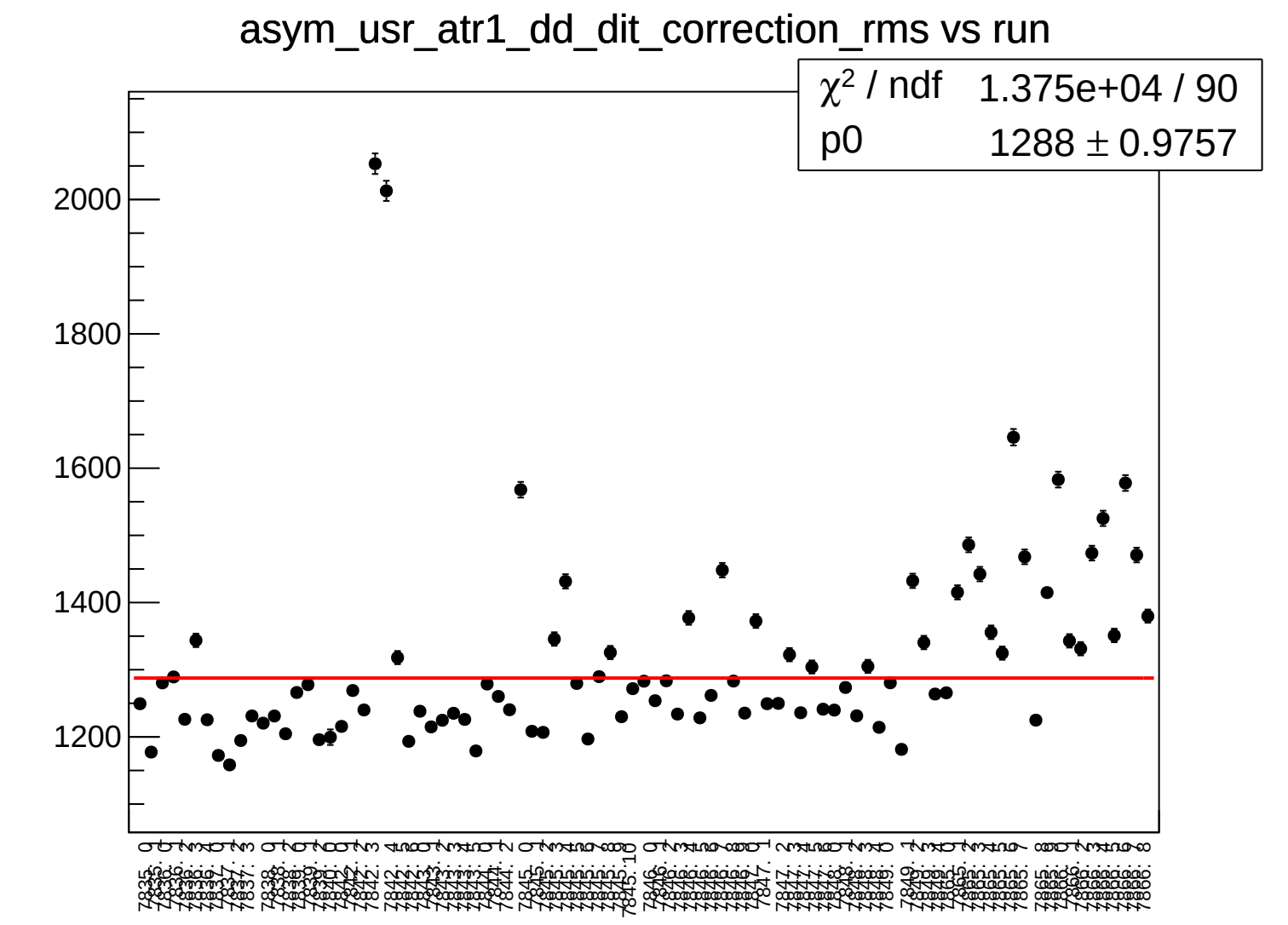

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 95.36 / 90
p0 −1215 ± 1425
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −413.9
Std Dev 0
2
1
0
−1
−2
−3

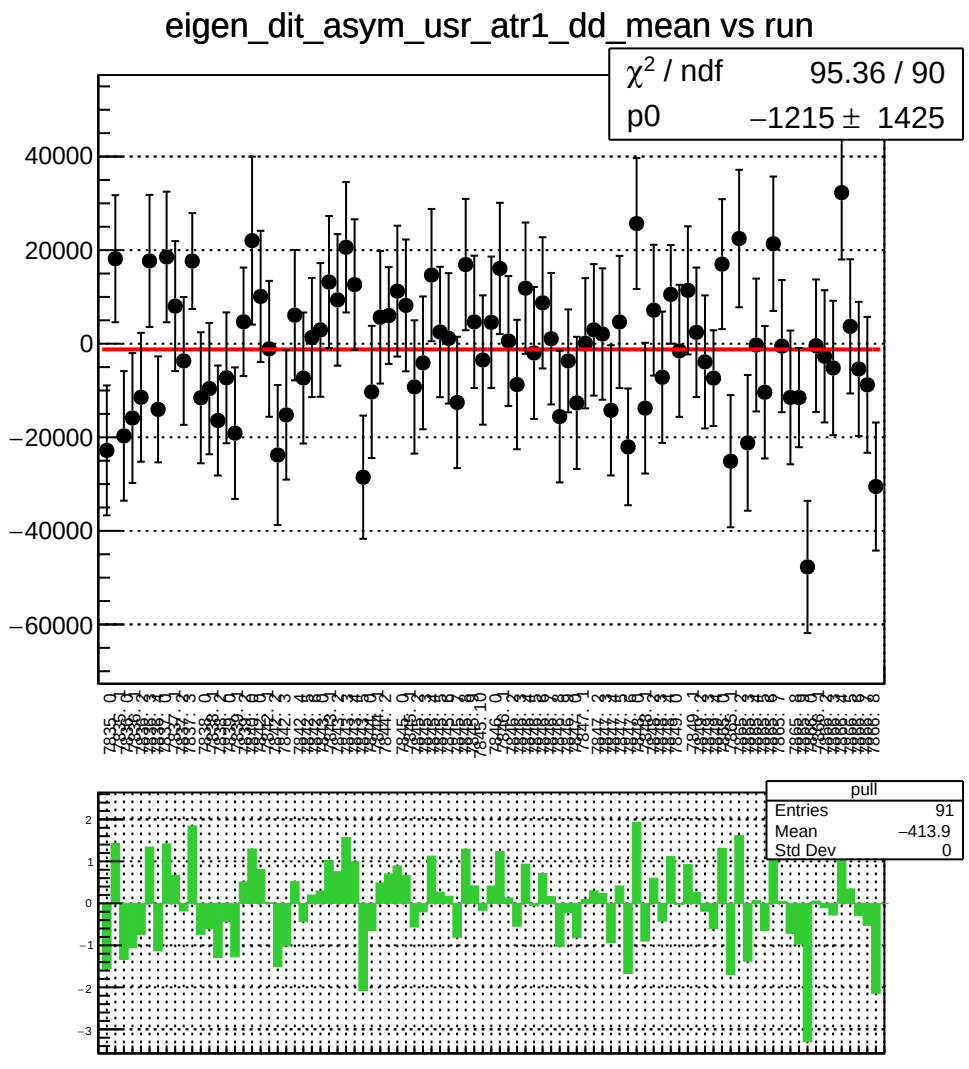

pull1D
Entries 91
Mean 0.003283
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

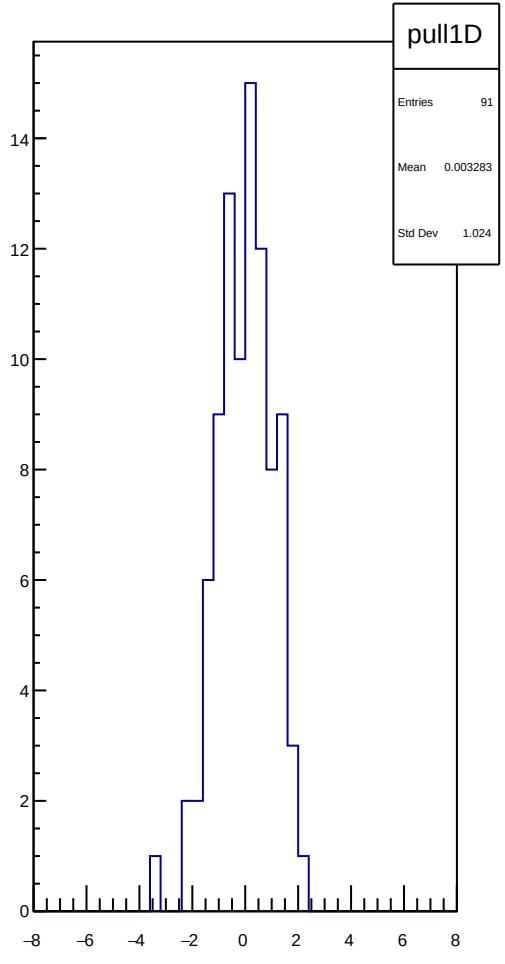

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 351.9 / 90
p0 1334 ± 1.007
1440
1420
1400
1380
1360
1340
1320
1300
1280

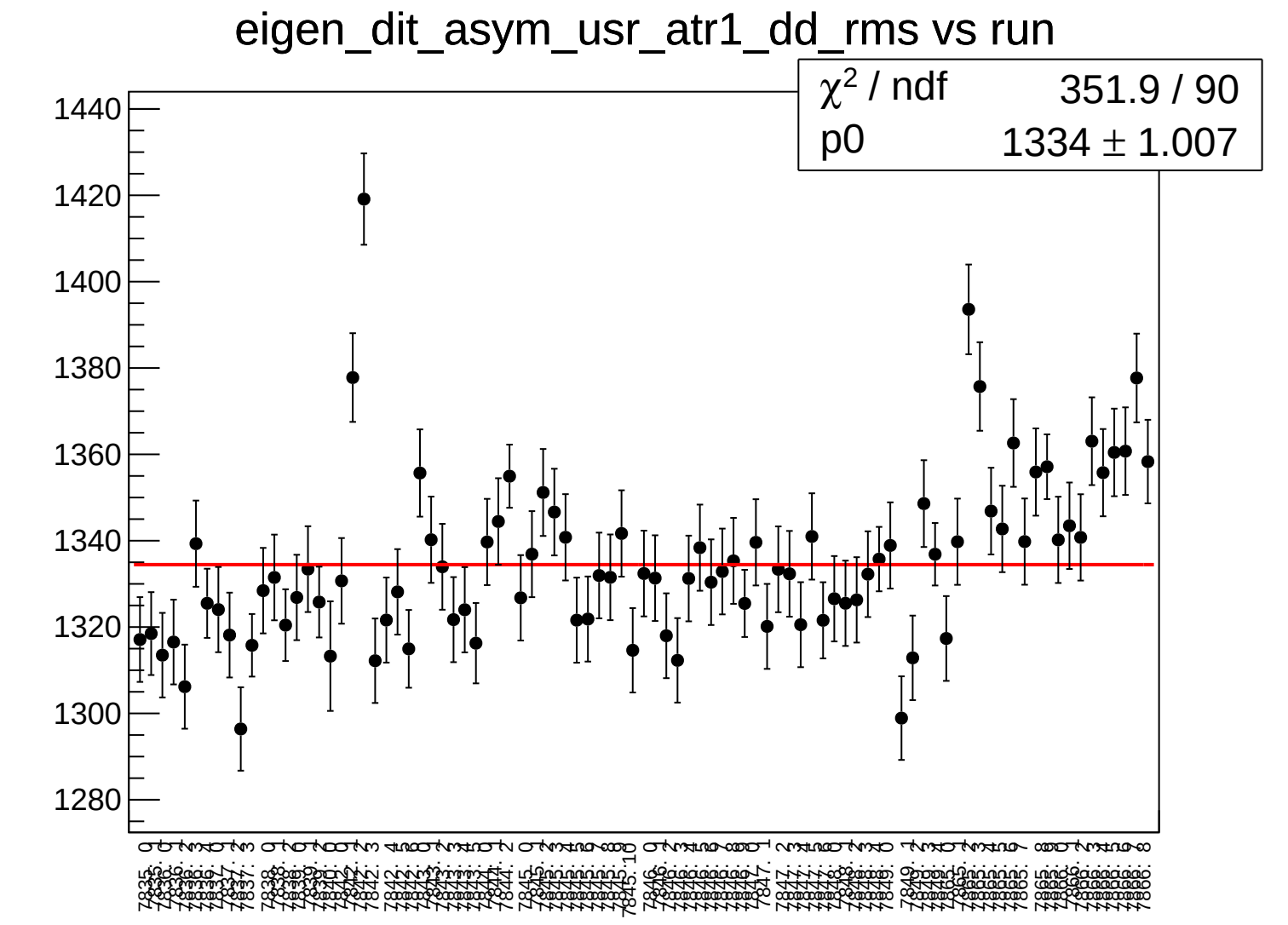

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 77.33 / 90
p0 902.5 ± 1380
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 171.1
Std Dev 0
2
1
0
−1
−2

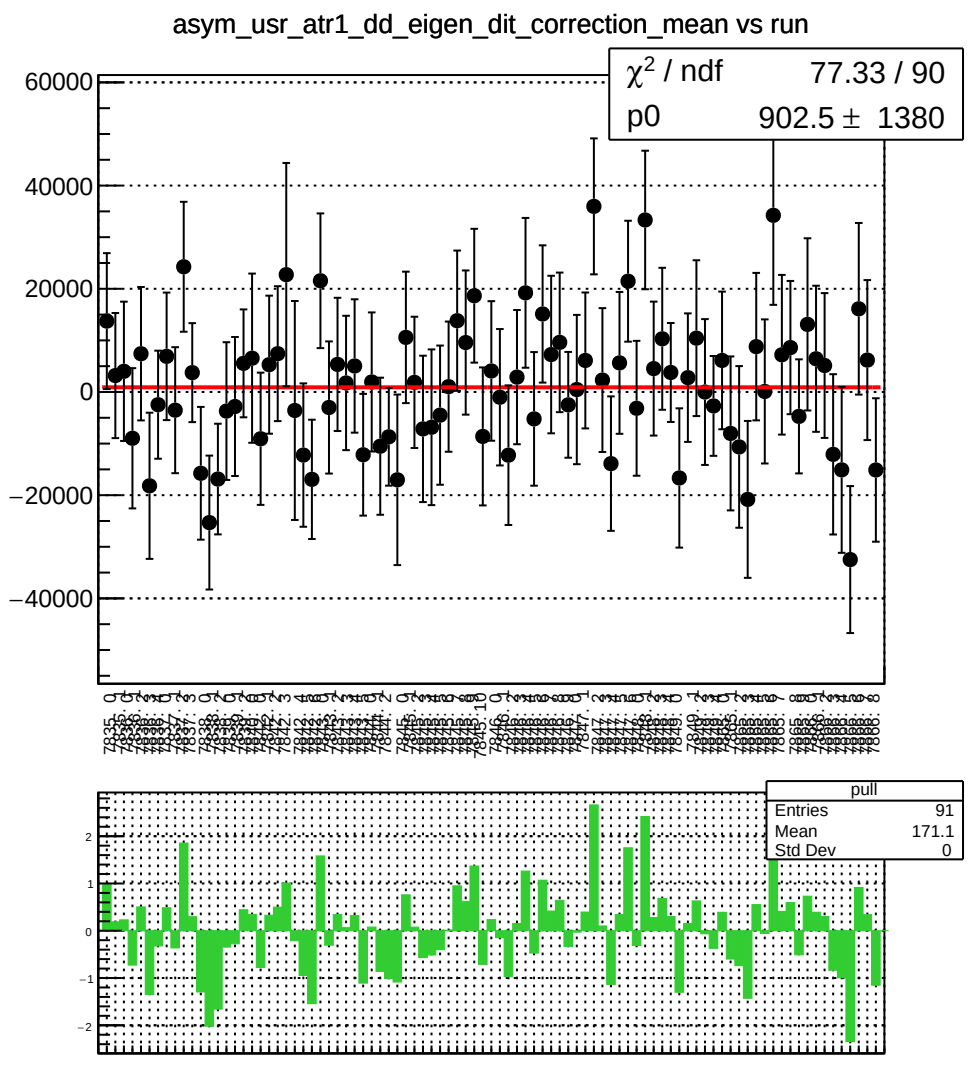

pull1D
Entries 91
Mean 0.01317
Std Dev 0.9217
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

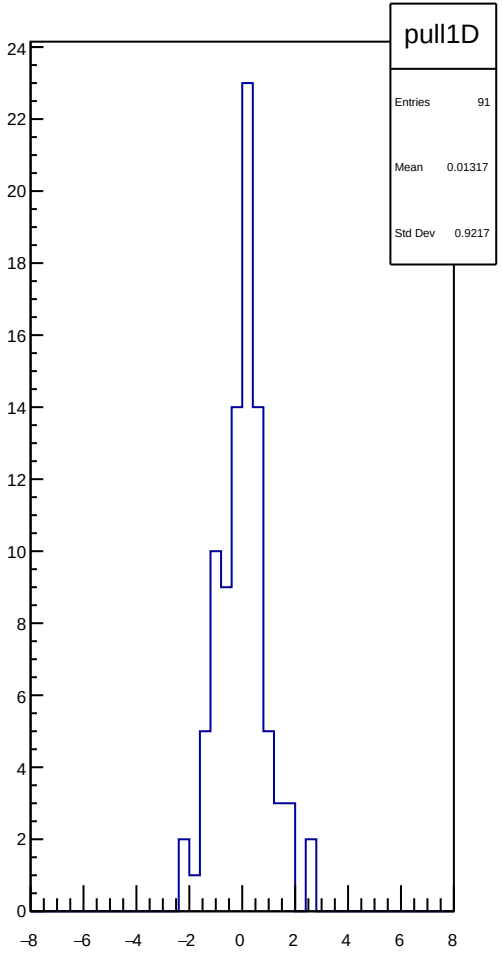

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.375e+04 / 90
p0 1288 ± 0.9757
2000
1800
1600
1400
1200

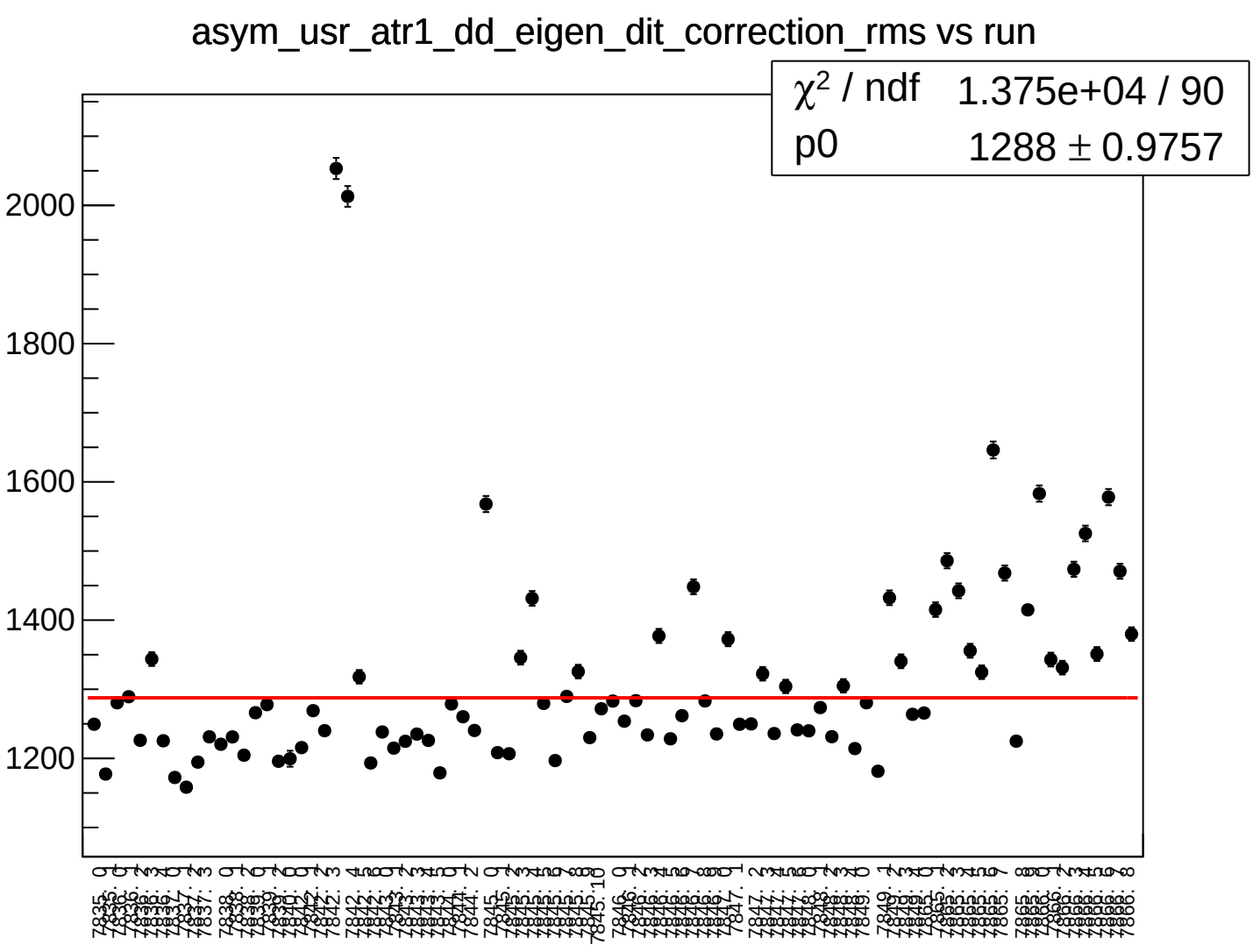

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 95.36 / 90
p0 −1215 ± 1425
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −413.9
Std Dev 0
2
1
0
−1
−2
−3

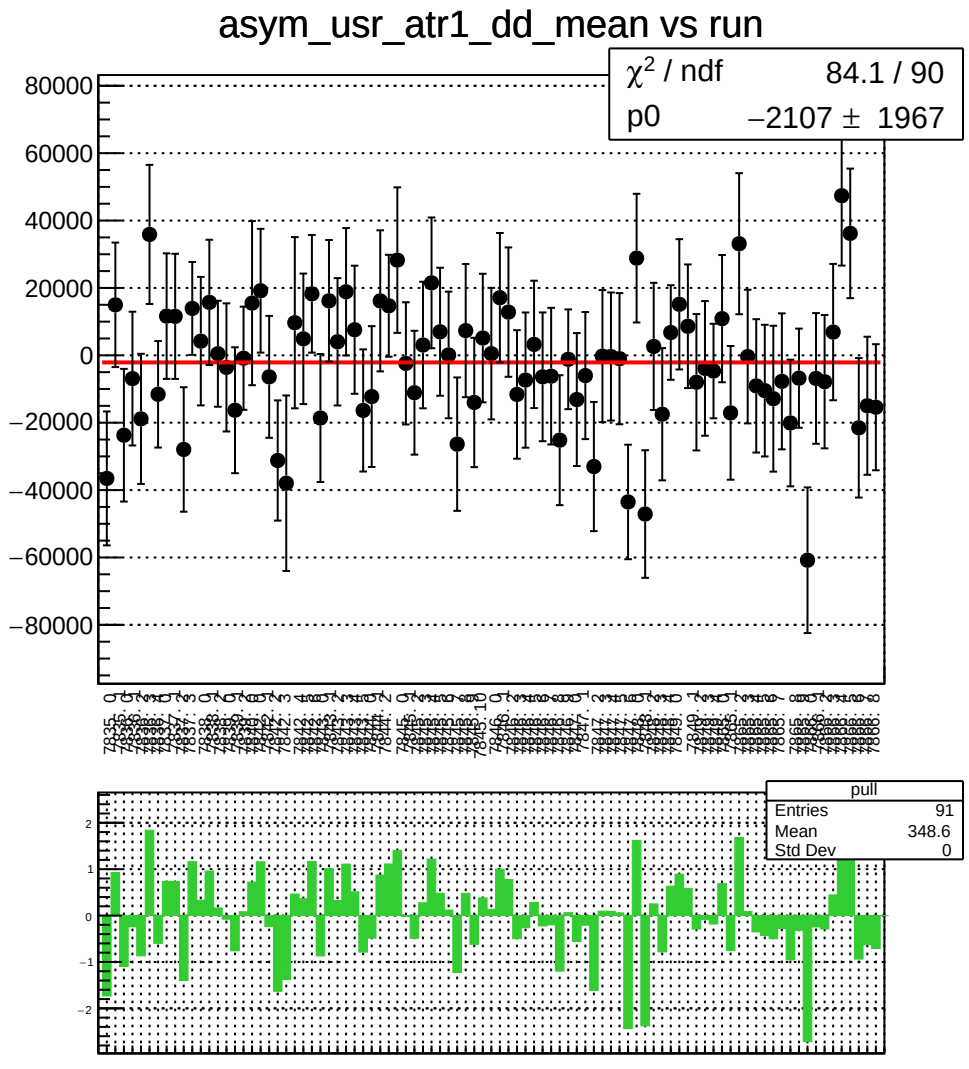

pull1D
Entries 91
Mean 0.003283
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

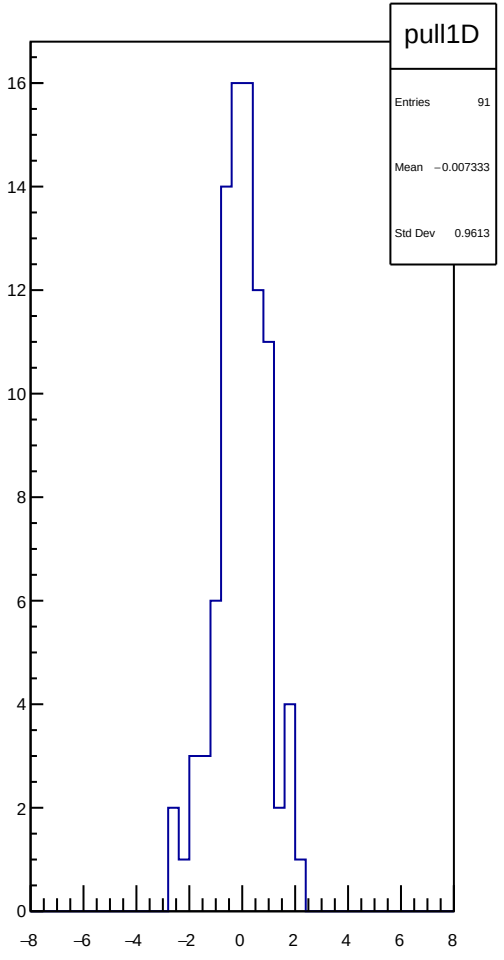

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 351.9 / 90
p0 1334 ± 1.007
1440
1420
1400
1380
1360
1340
1320
1300
1280

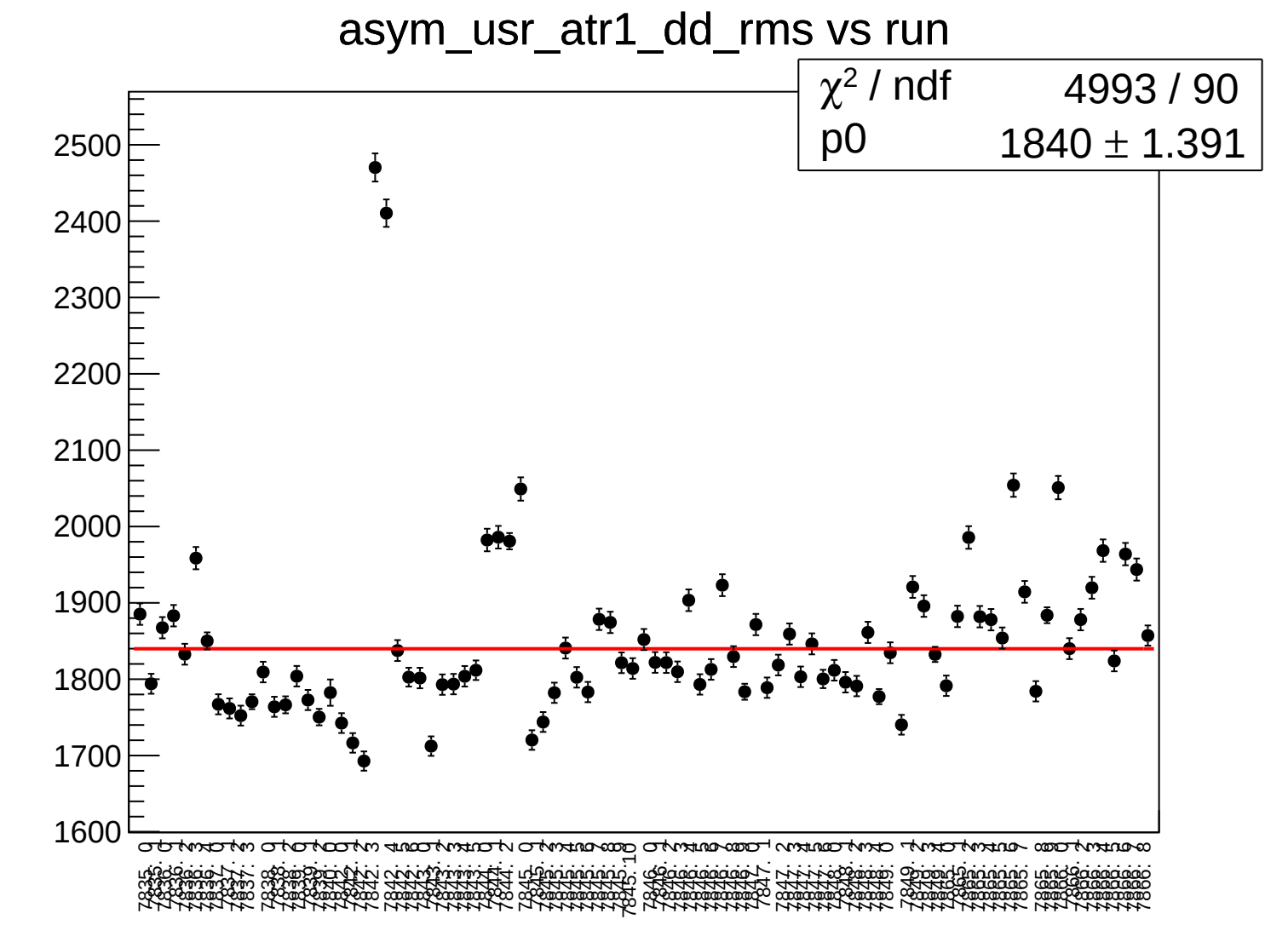

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.33 / 90
p0 902.5 ± 1380
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 171.1
Std Dev 0
2
1
0
−1
−2

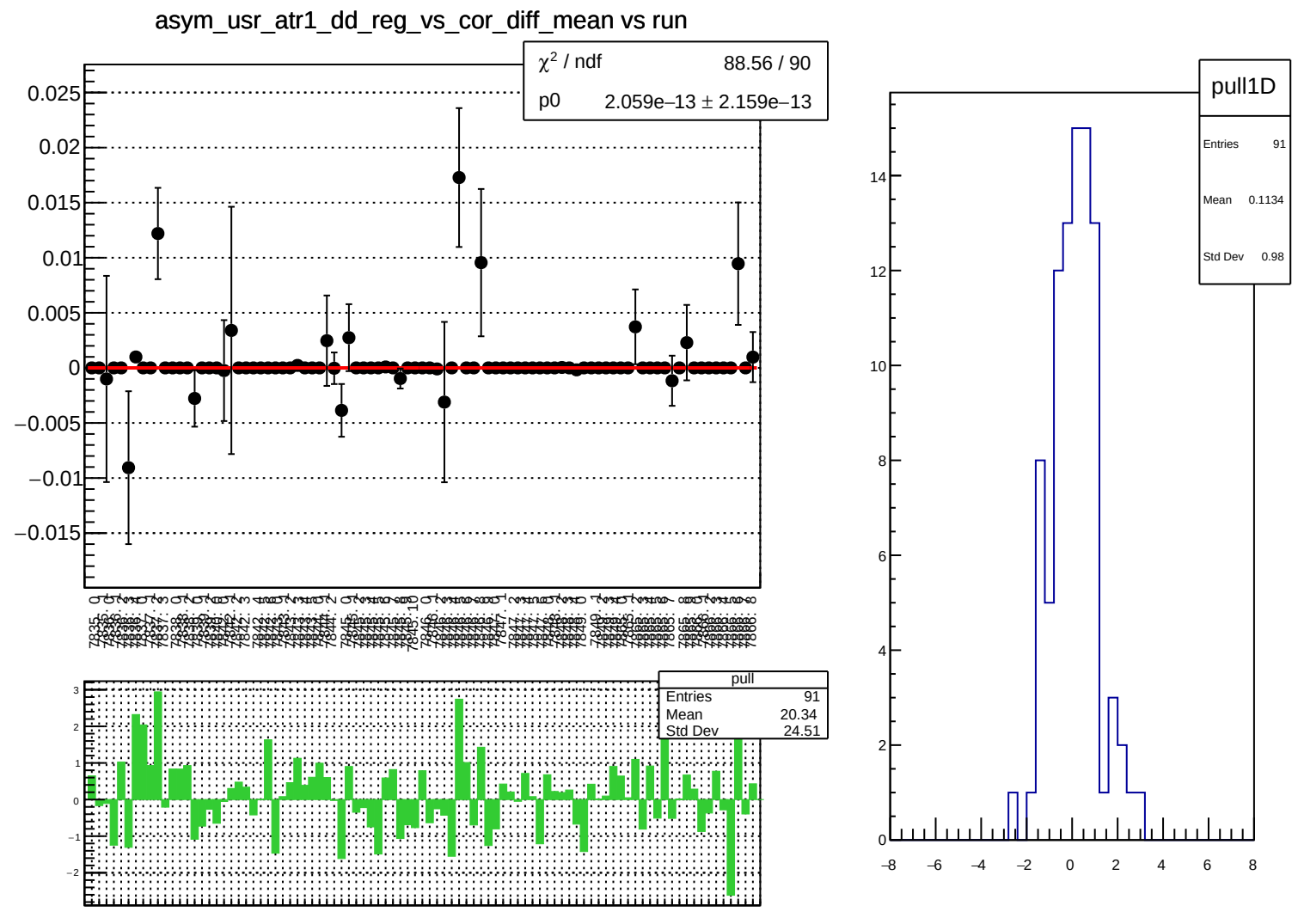

pull1D
Entries 91
Mean 0.01317
Std Dev 0.9217
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

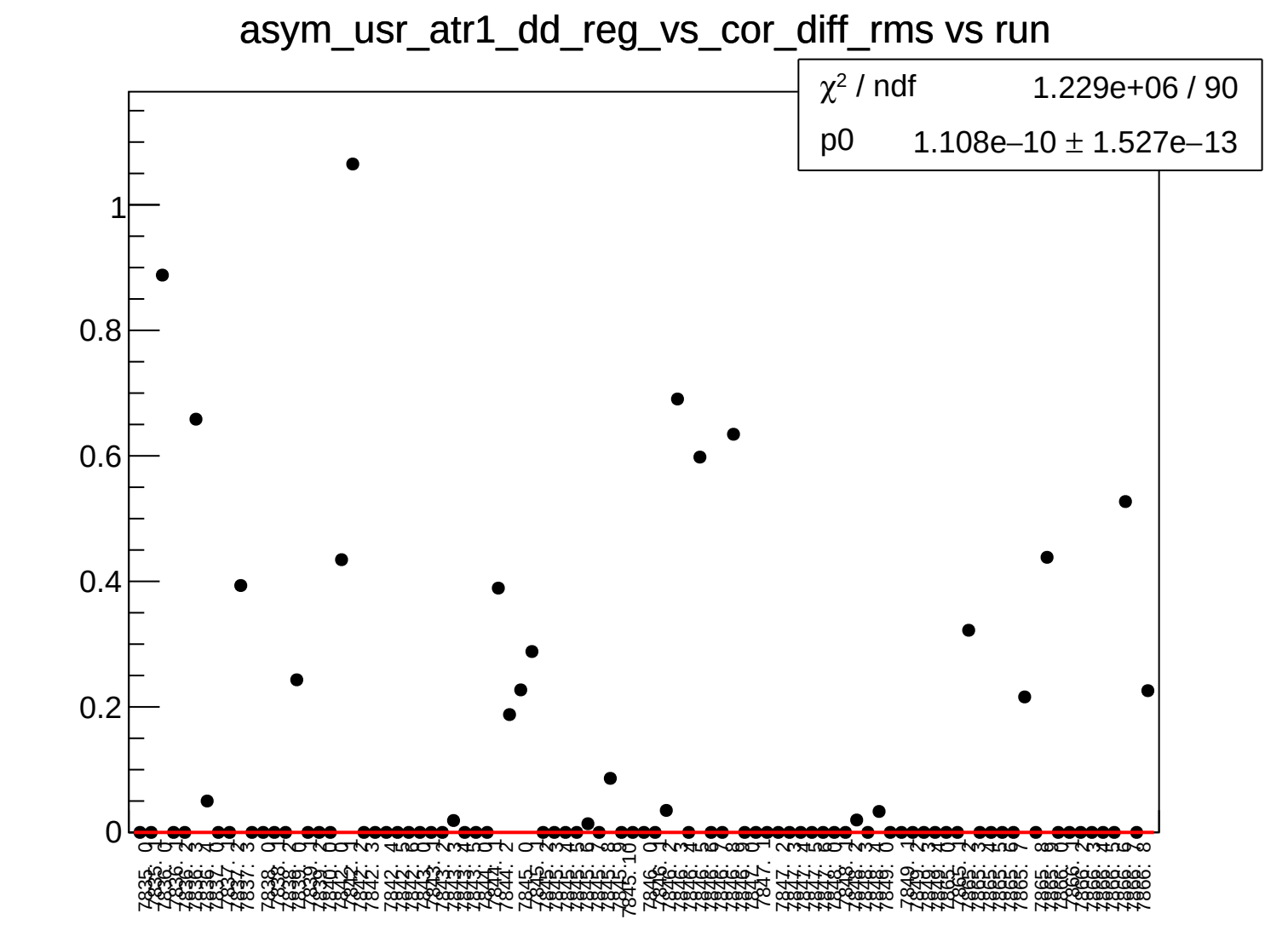

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.375e+04 / 90
p0 1288 ± 0.9757
2000
1800
1600
1400
1200

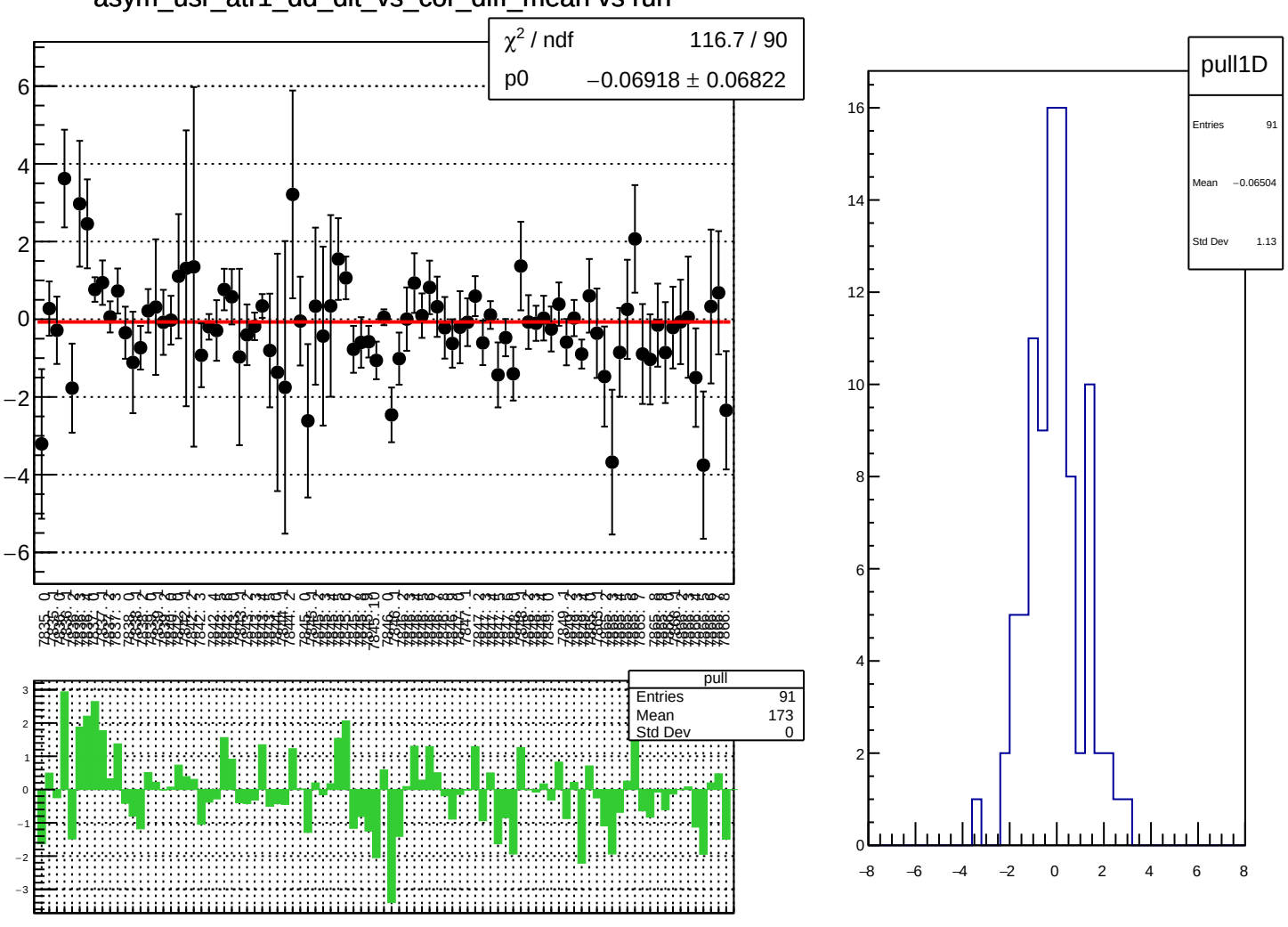

asym_usr_atr1_dd_mean vs run
χ² / ndf 84.1 / 90
p0 −2107 ± 1967
pull
Entries 91
Mean 348.6
Std Dev 0

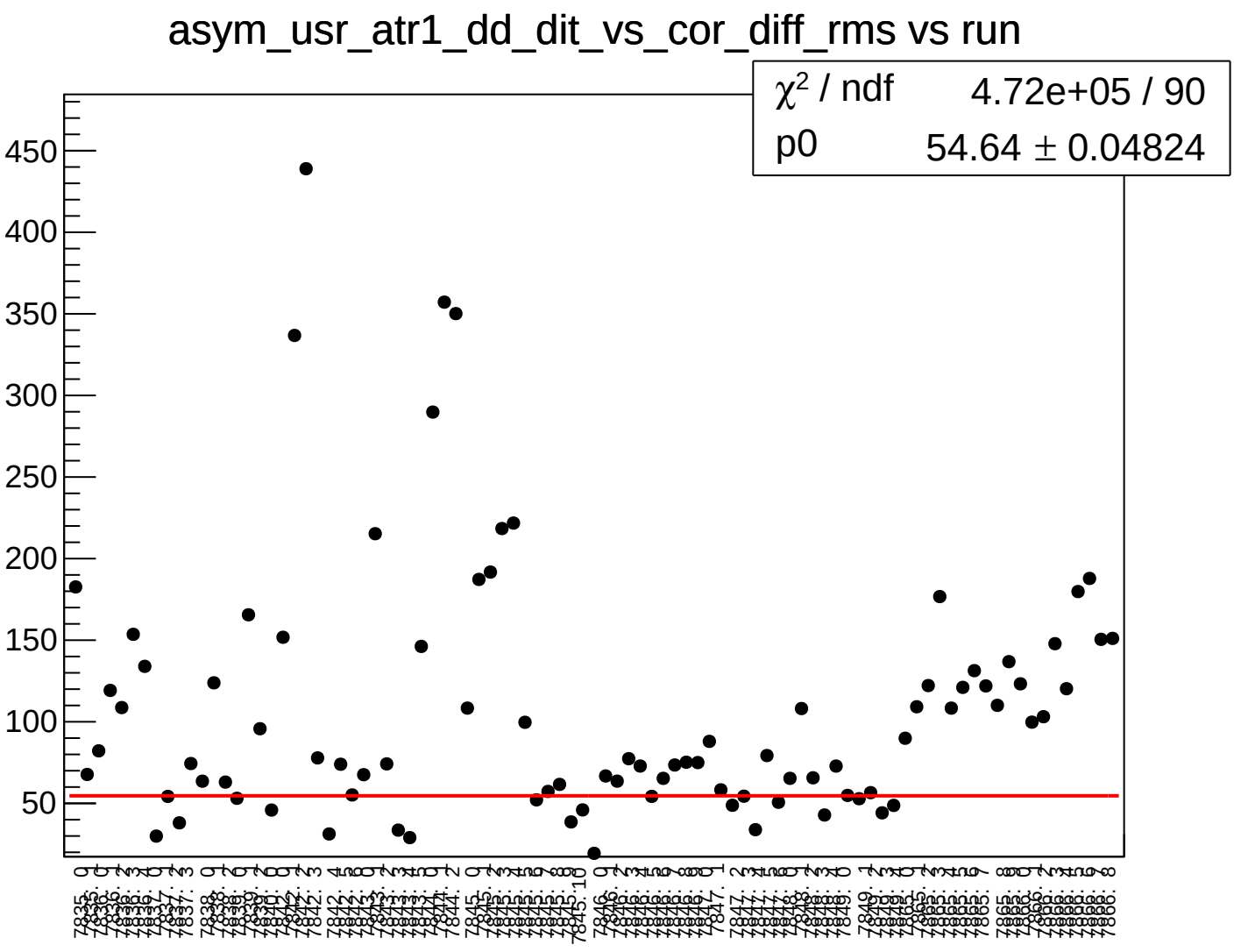

pull1D
Entries 91
Mean −0.007333
Std Dev 0.9613

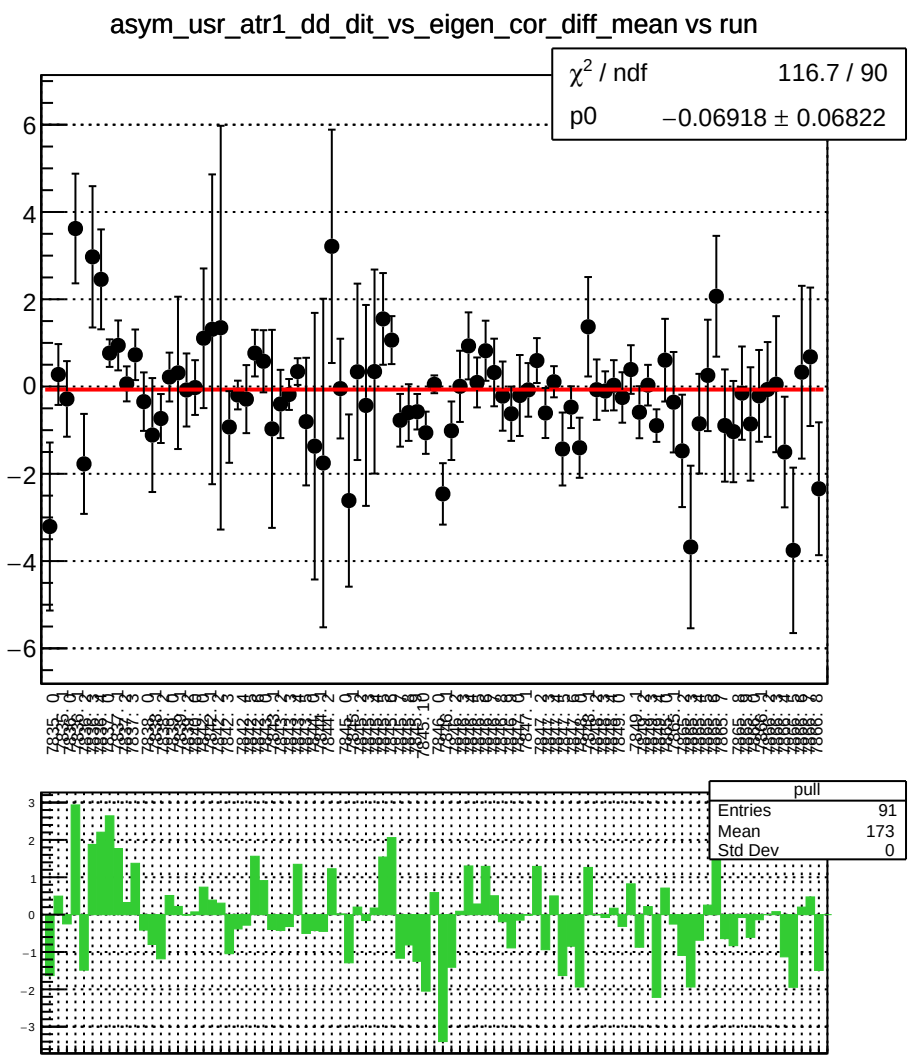

asym_usr_atr1_dd_rms vs run
χ² / ndf 4993 / 90
p0 1840 ± 1.391
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

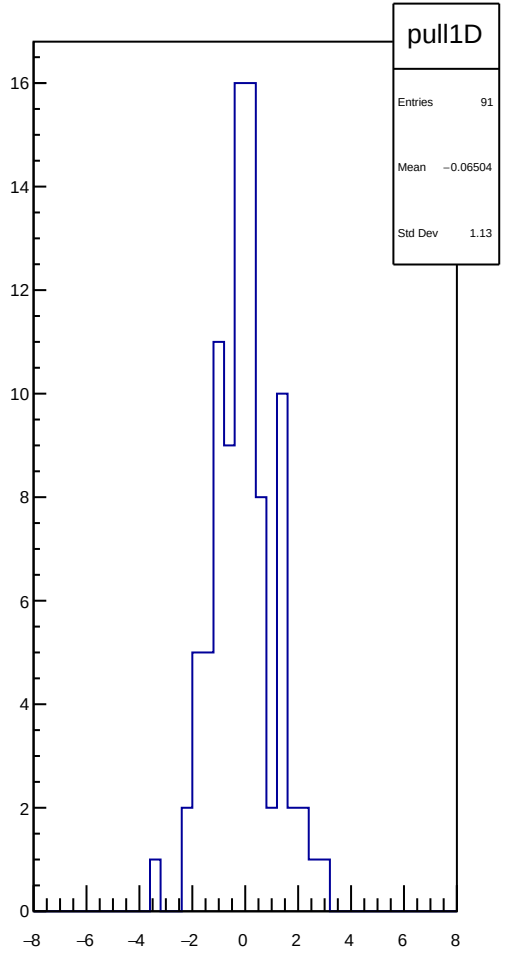

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.56 / 90
p0 2.059e−13 ± 2.159e−13
pull
Entries 91
Mean 20.34
Std Dev 24.51
pull1D
Entries 91
Mean 0.1134
Std Dev 0.98

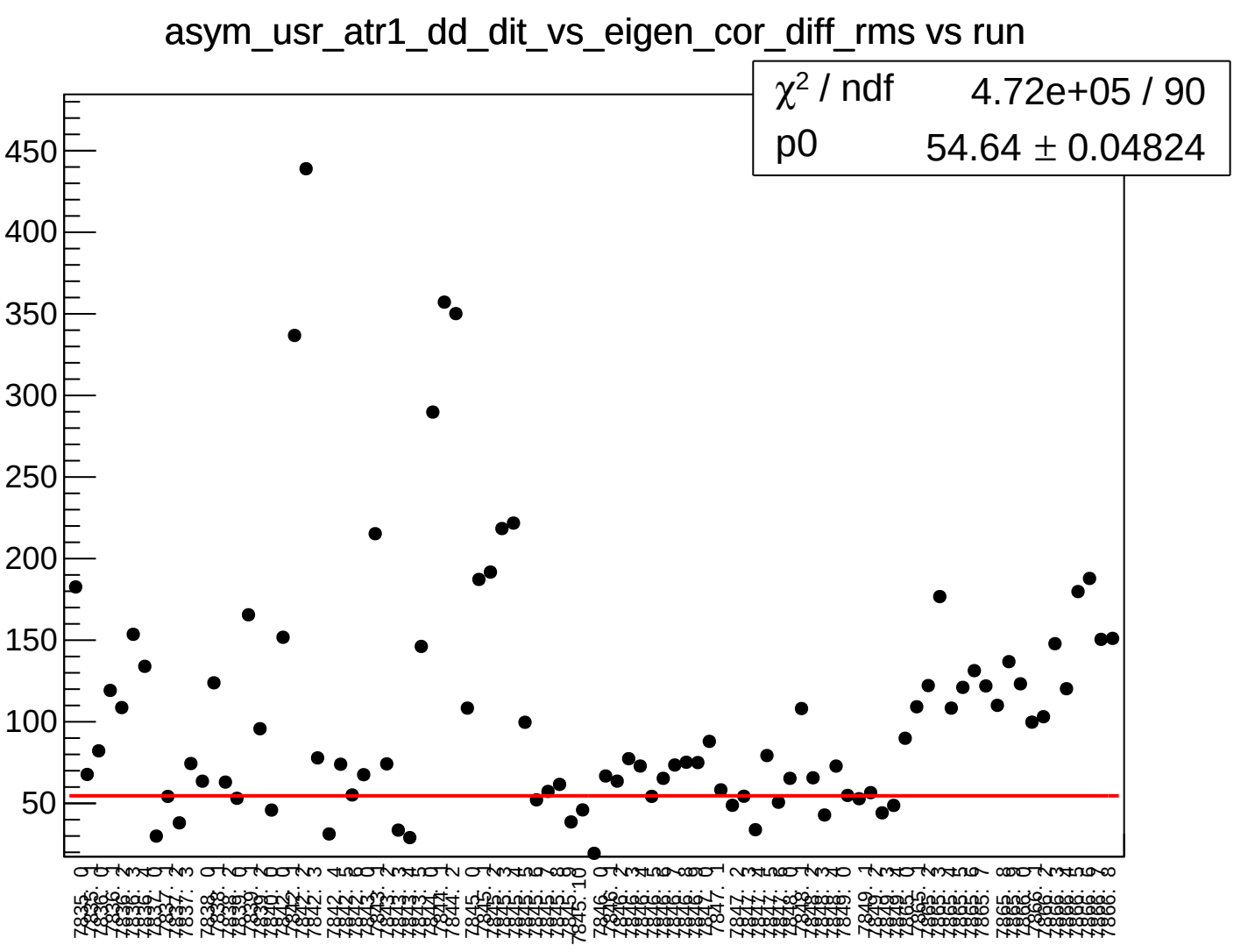

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.229e+06 / 90
p0 1.108e−10 ± 1.527e−13
1
0.8
0.6
0.4
0.2
0

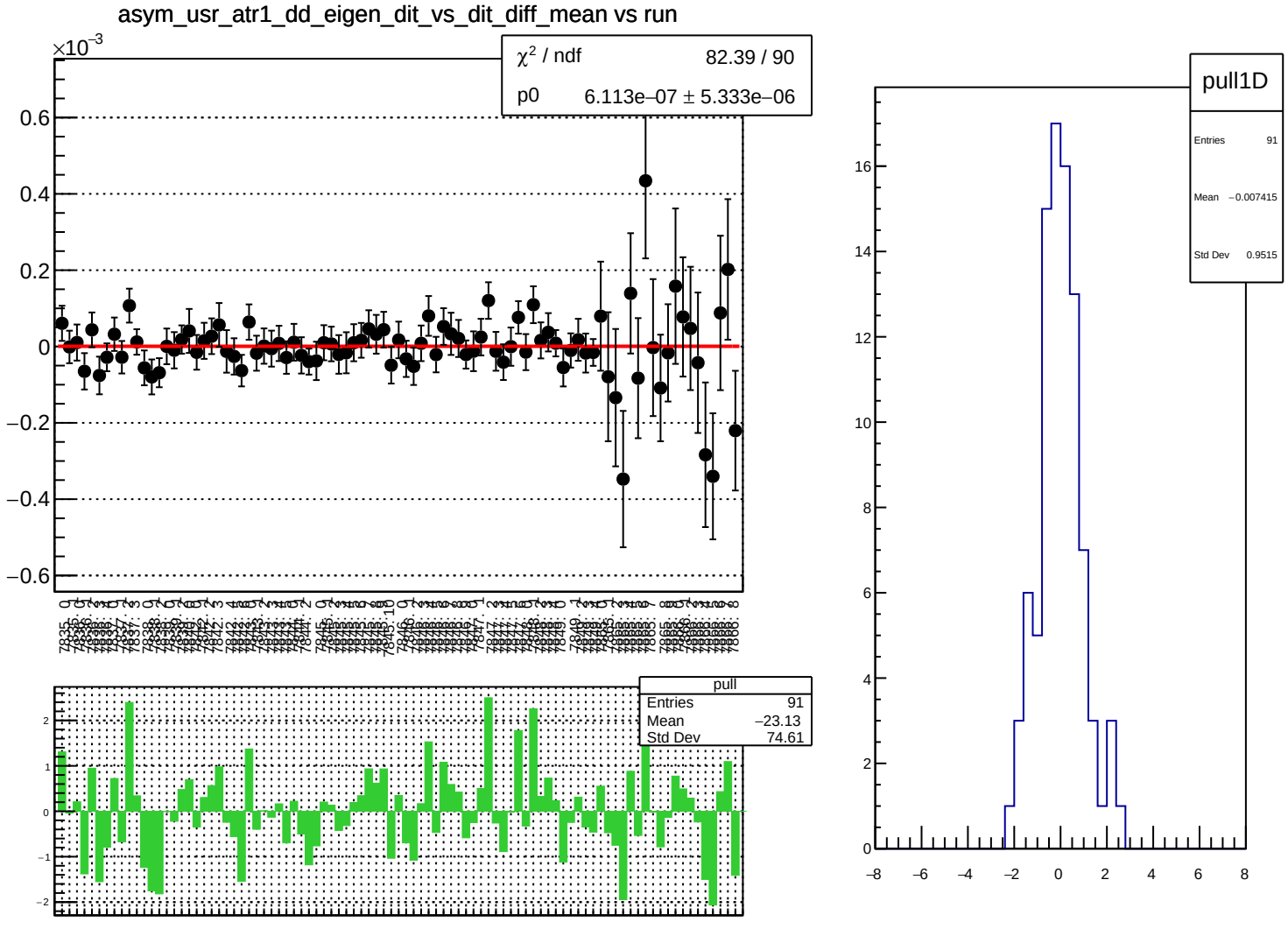

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 116.7 / 90
p0 −0.06918 ± 0.06822
pull
Entries 91
Mean 173
Std Dev 0
pull1D
Entries 91
Mean −0.06504
Std Dev 1.13

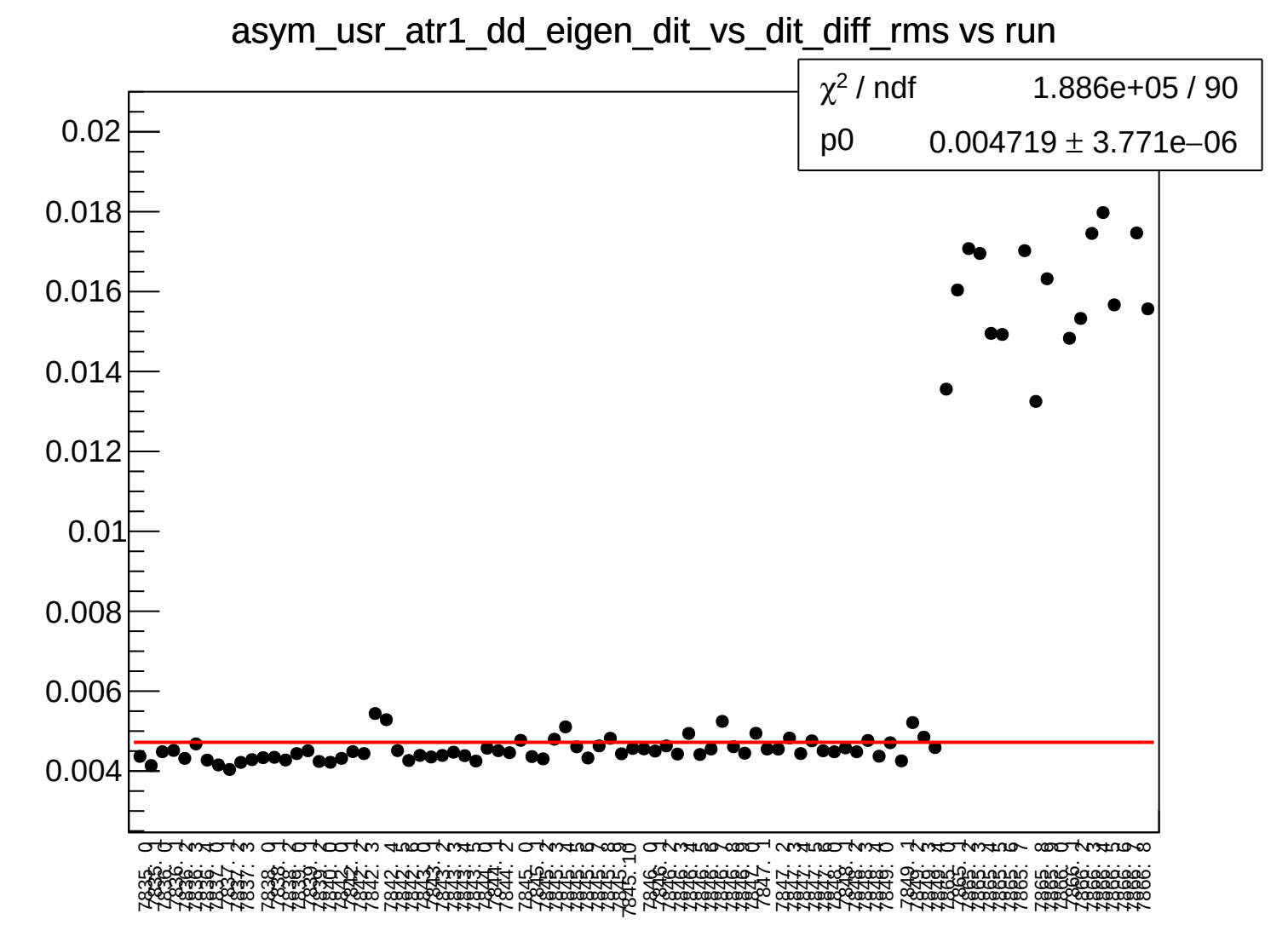

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.72e+05 / 90
p0 54.64 ± 0.04824
450
400
350
300
250
200
150
100
50

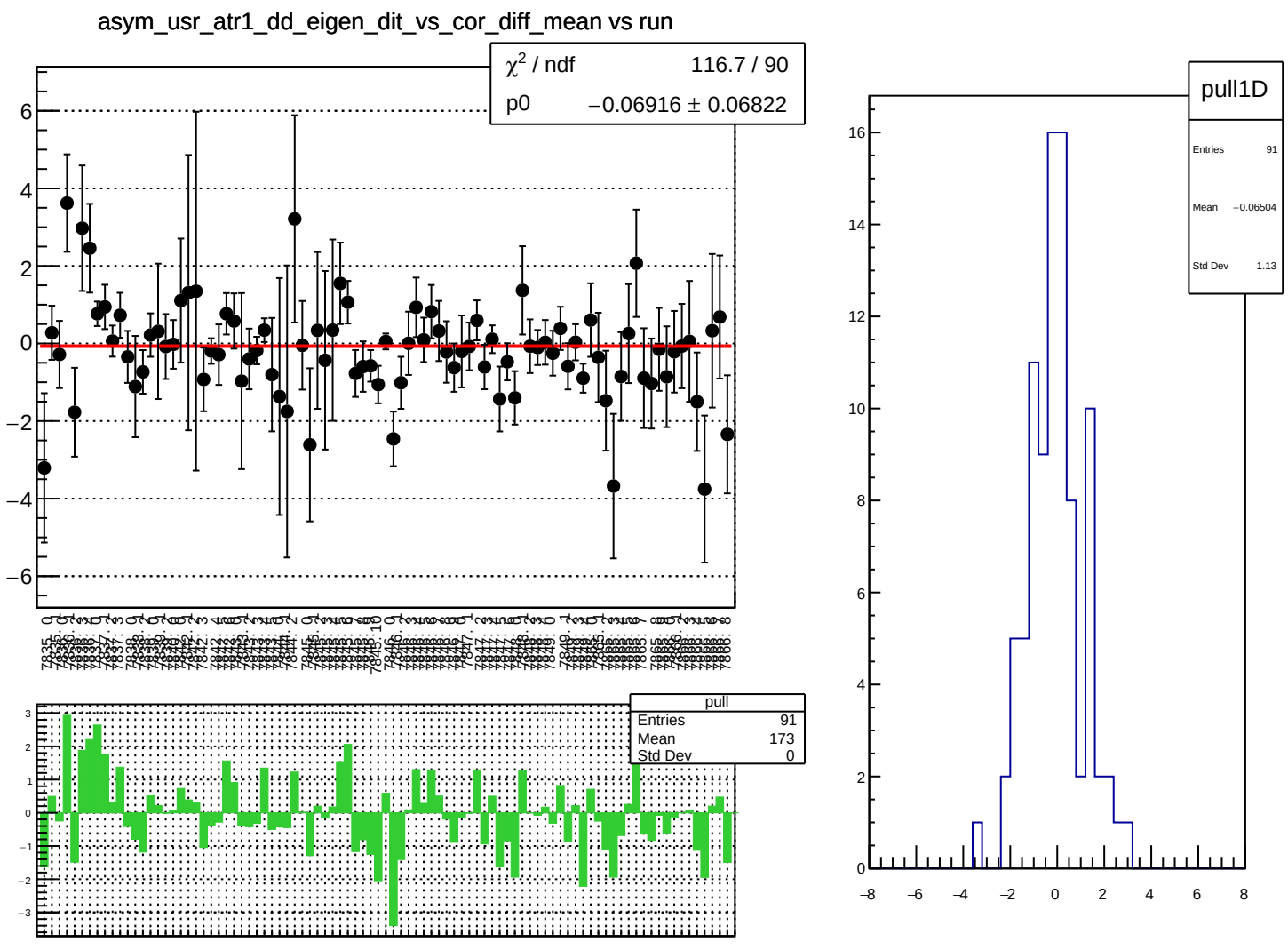

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.7 / 90
p0 −0.06918 ± 0.06822
pull
Entries 91
Mean 173
Std Dev 0

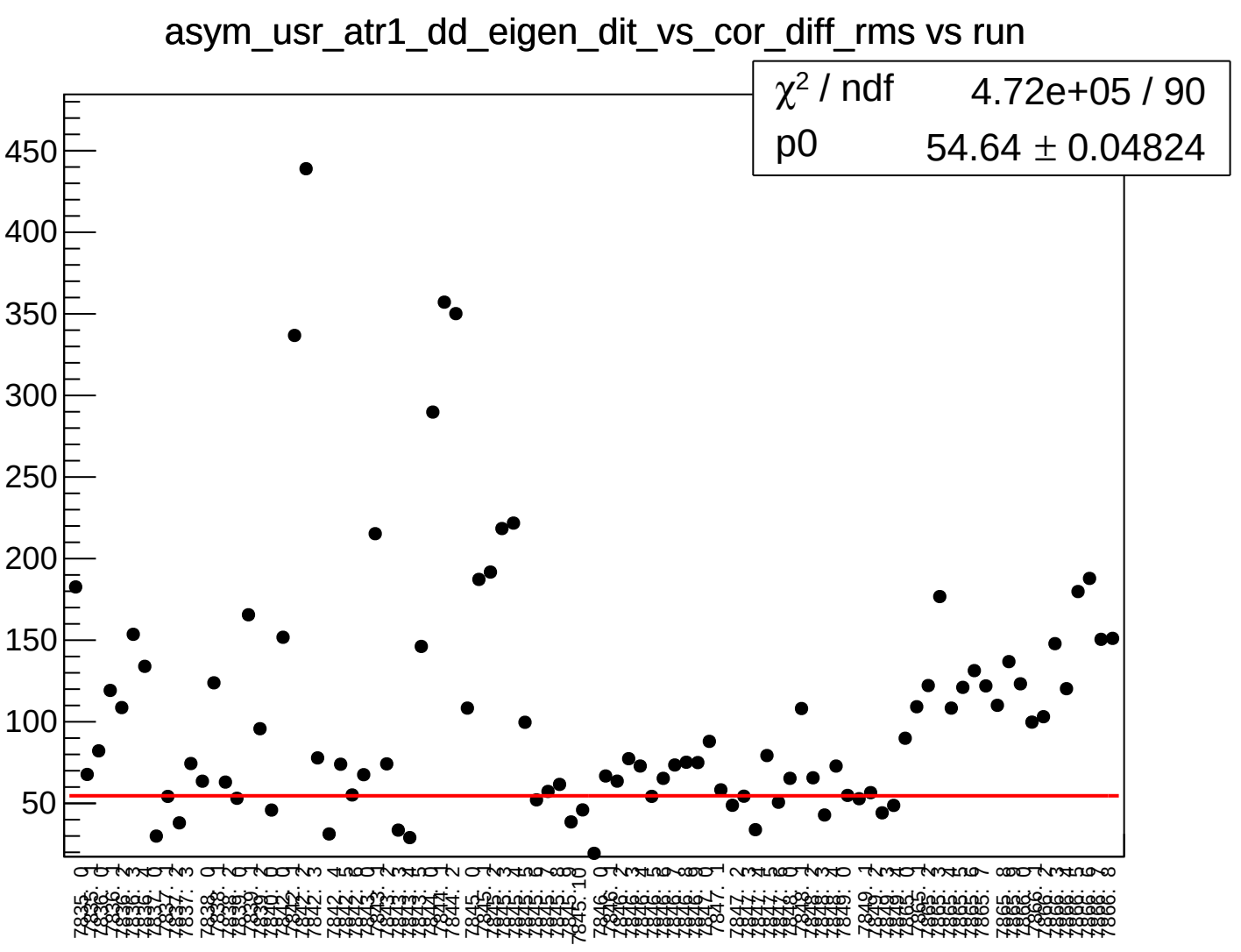

pull1D
Entries 91
Mean −0.06504
Std Dev 1.13

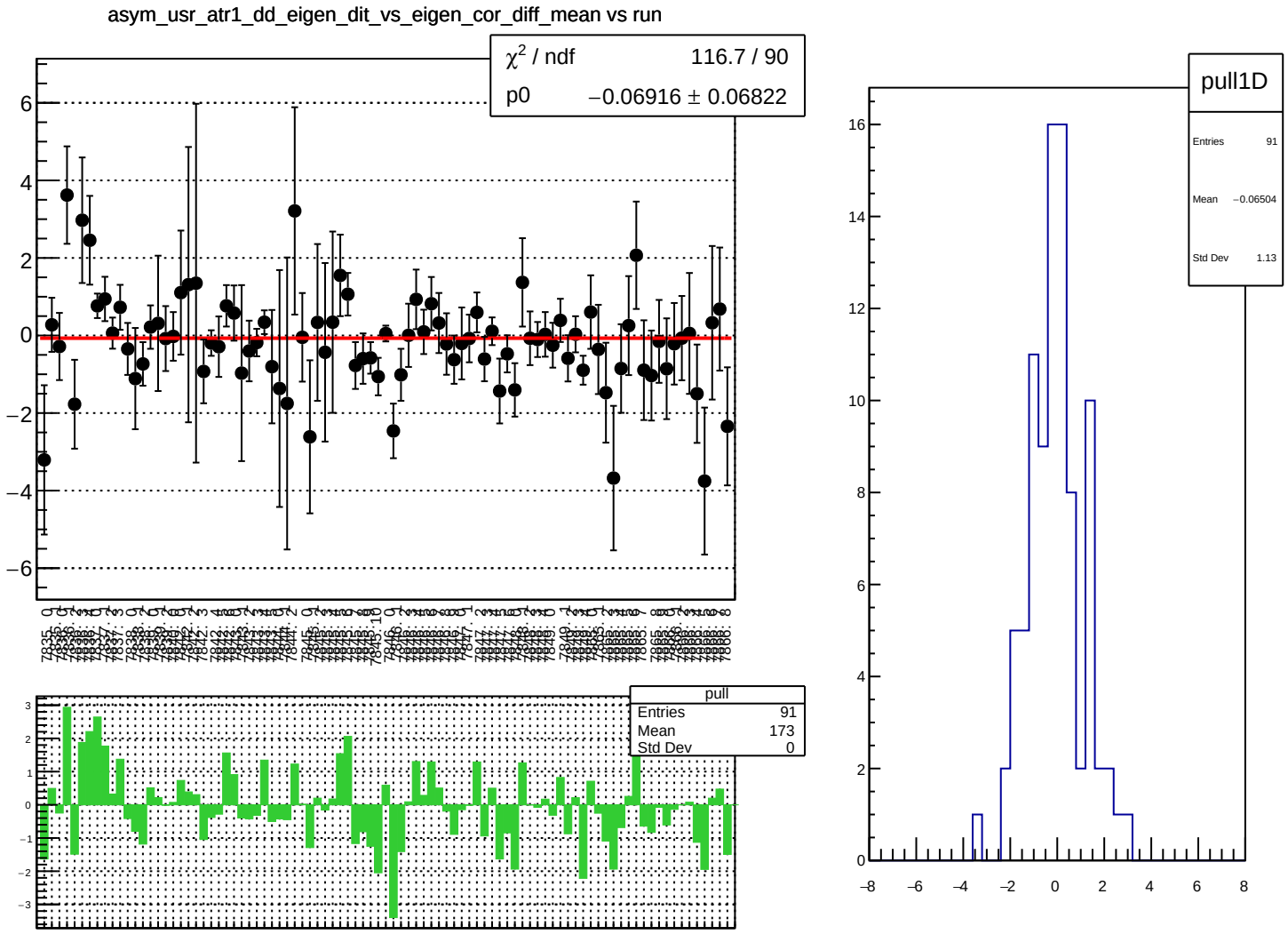

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.72e+05 / 90
p0 54.64 ± 0.04824
450
400
350
300
250
200
150
100
50

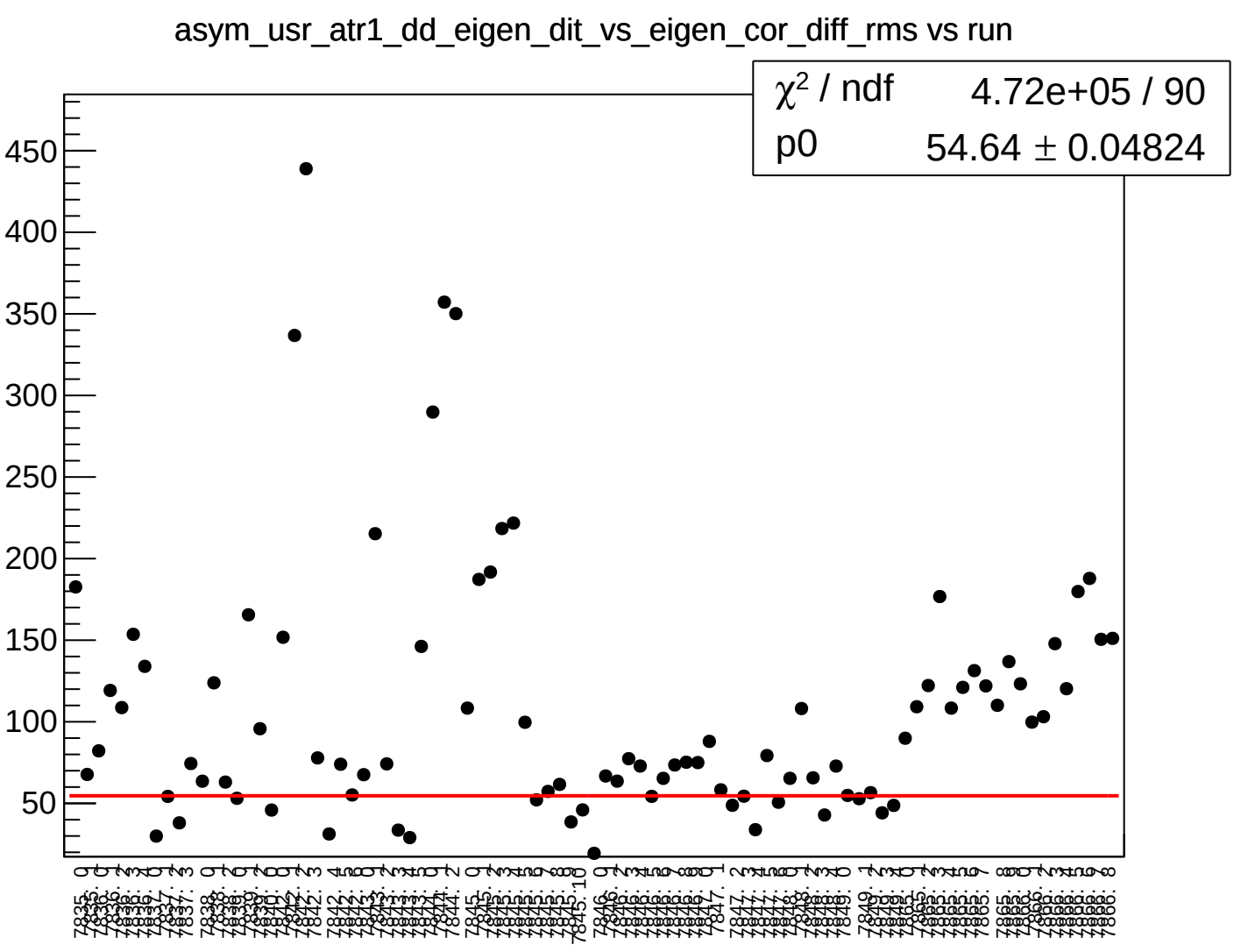

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.39 / 90
p0 6.113e−07 ± 5.333e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 91
Mean −23.13
Std Dev 74.61
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.007415
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

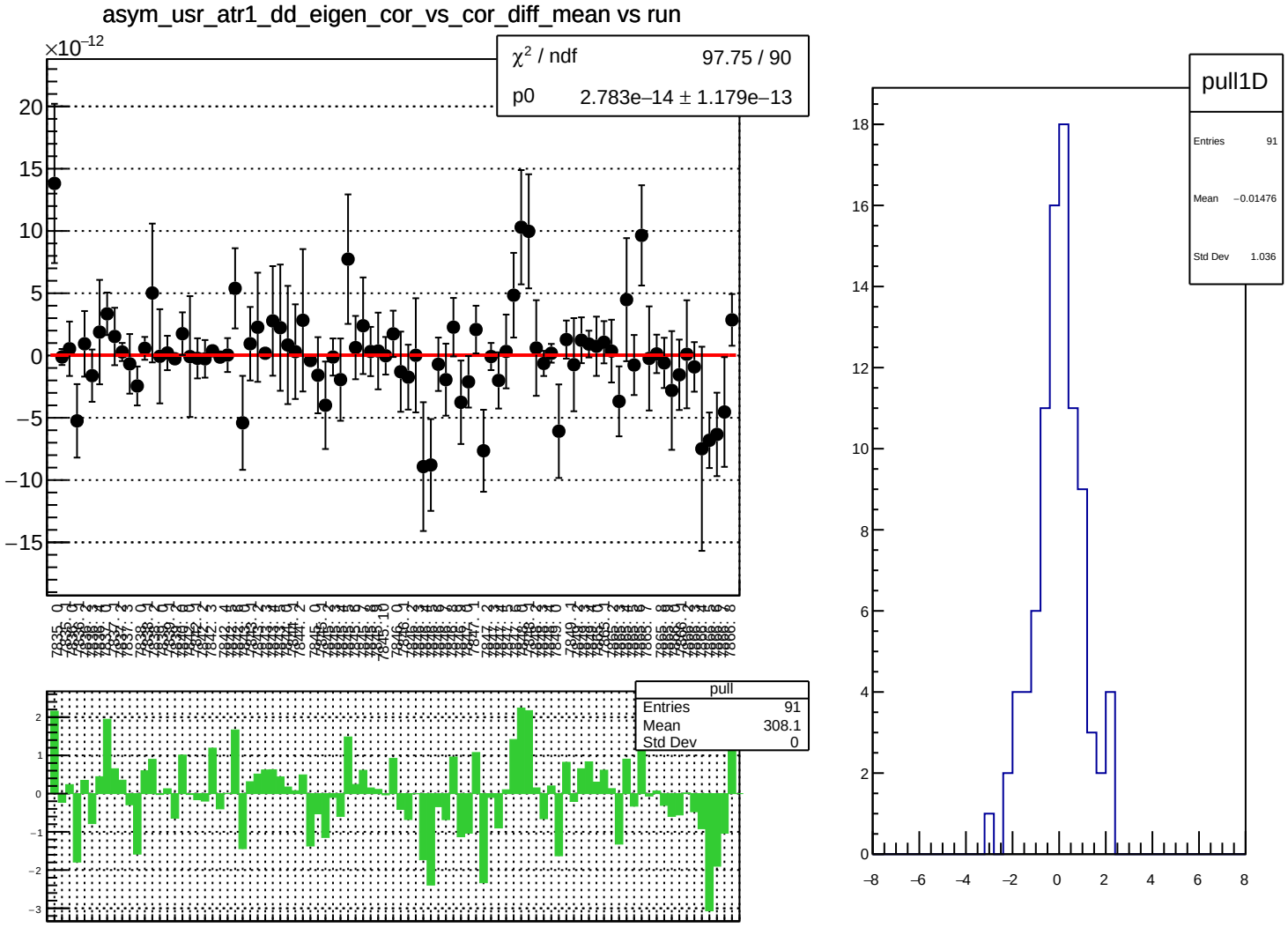

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.886e+05 / 90
p0 0.004719 ± 3.771e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

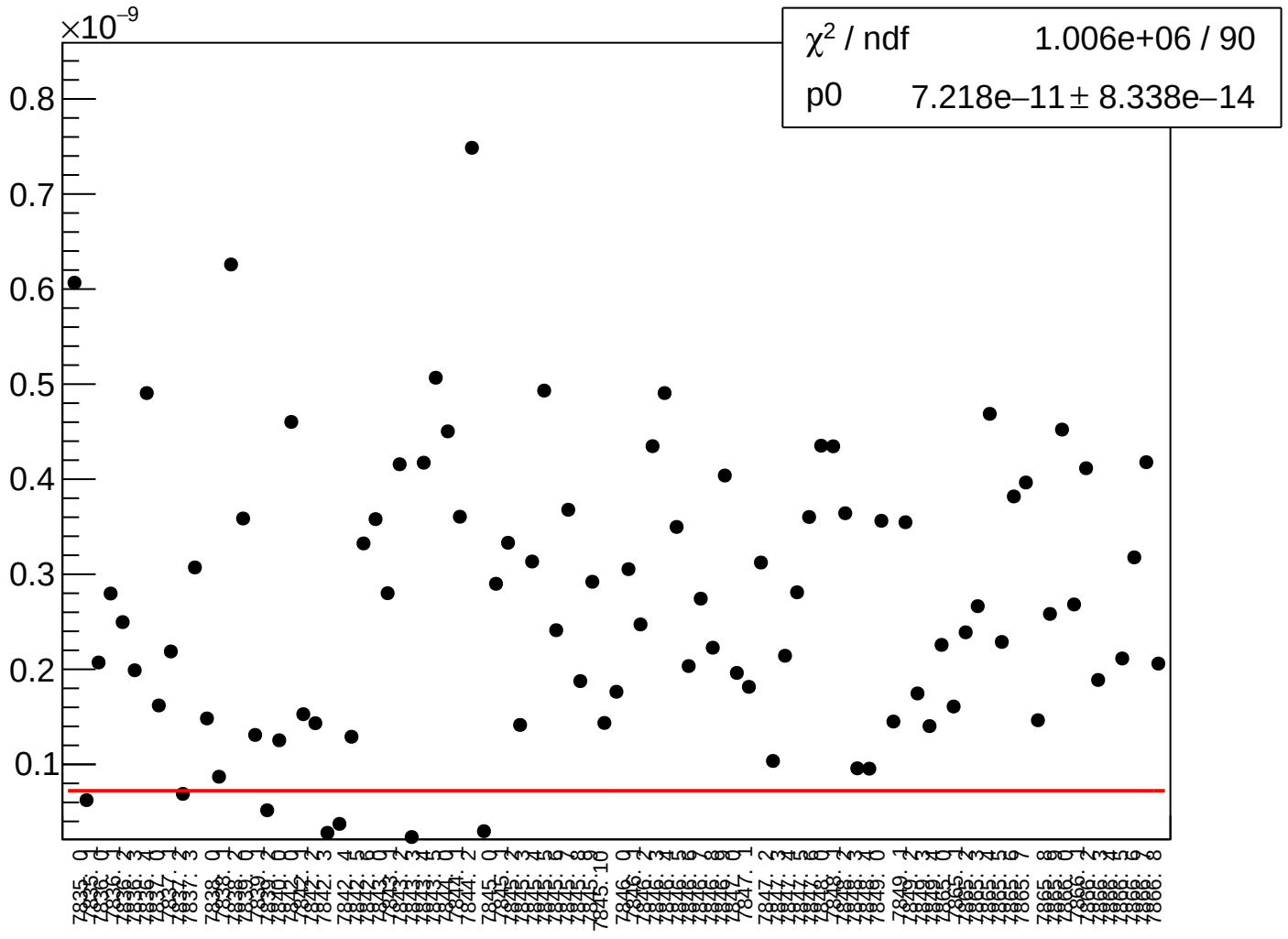

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.7 / 90
p0 −0.06916 ± 0.06822
pull
Entries 91
Mean 173
Std Dev 0
pull1D
Entries 91
Mean −0.06504
Std Dev 1.13

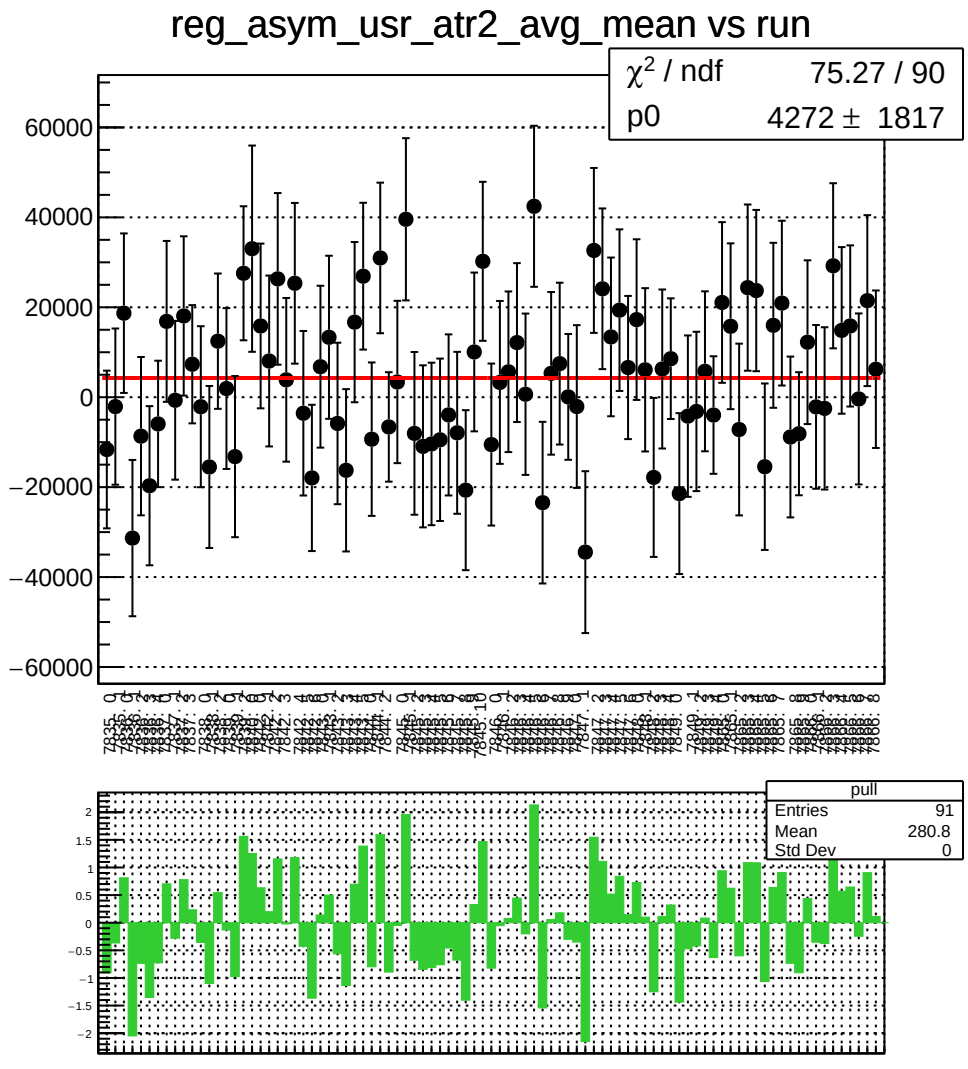

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.72e+05 / 90
p0 54.64 ± 0.04824
450
400
350
300
250
200
150
100
50

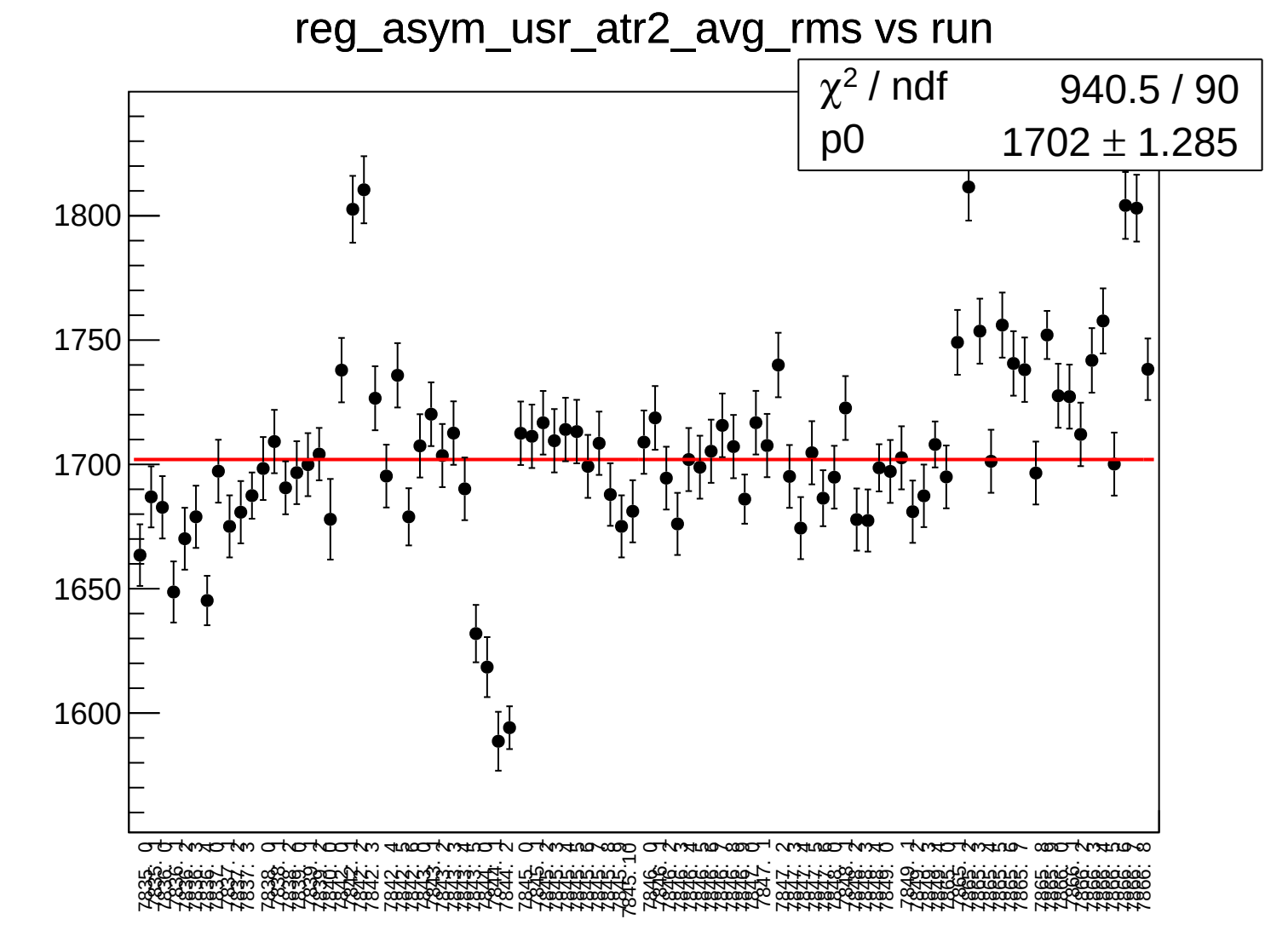

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.7 / 90
p0 −0.06916 ± 0.06822
pull
Entries 91
Mean 173
Std Dev 0
pull1D
Entries 91
Mean −0.06504
Std Dev 1.13

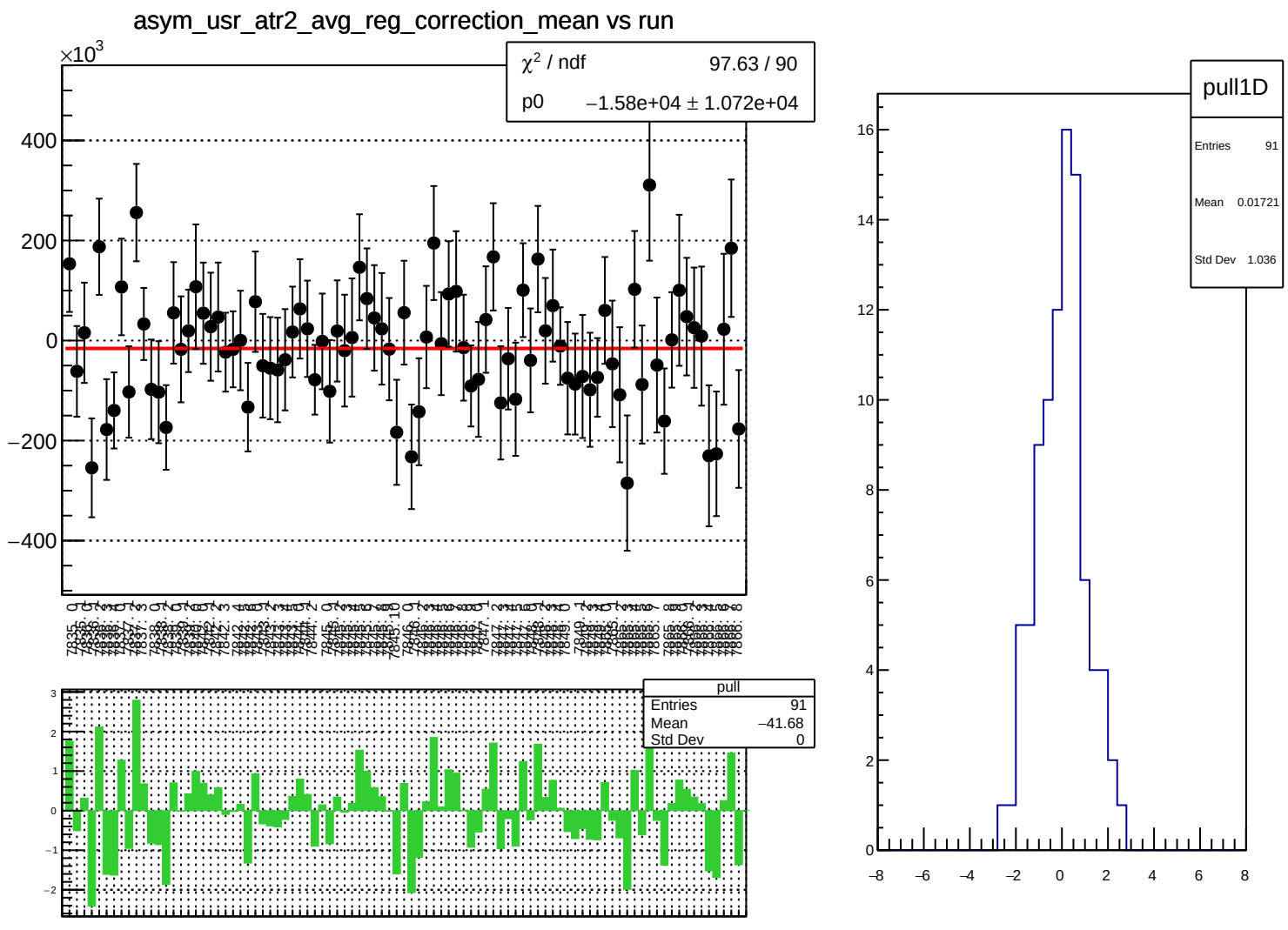

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.72e+05 / 90
p0 54.64 ± 0.04824
450
400
350
300
250
200
150
100
50

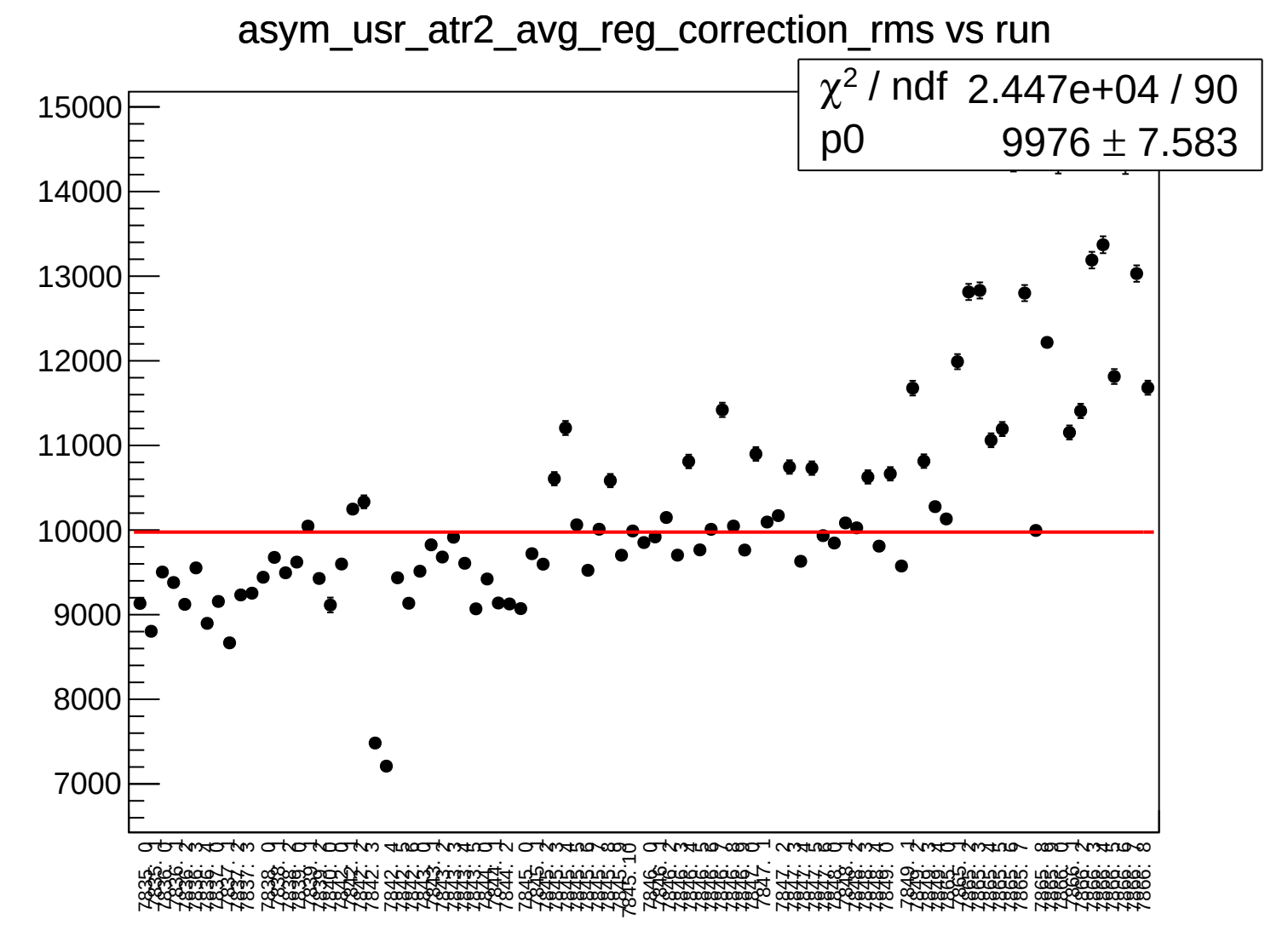

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.75 / 90
p0 2.783e−14 ± 1.179e−13
pull
Entries 91
Mean 308.1
Std Dev 0
pull1D
Entries 91
Mean −0.01476
Std Dev 1.036

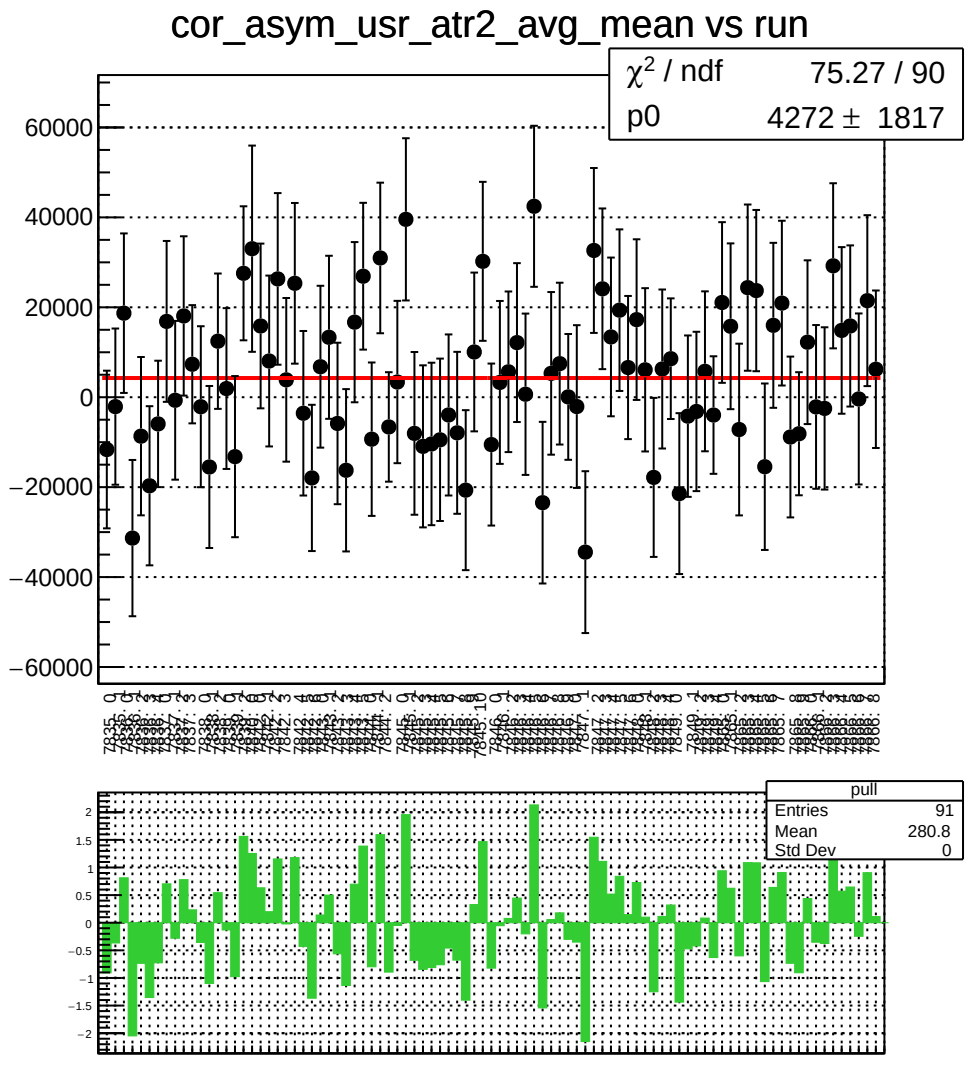

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.006e+06 / 90
p0 7.218e−11 ± 8.338e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

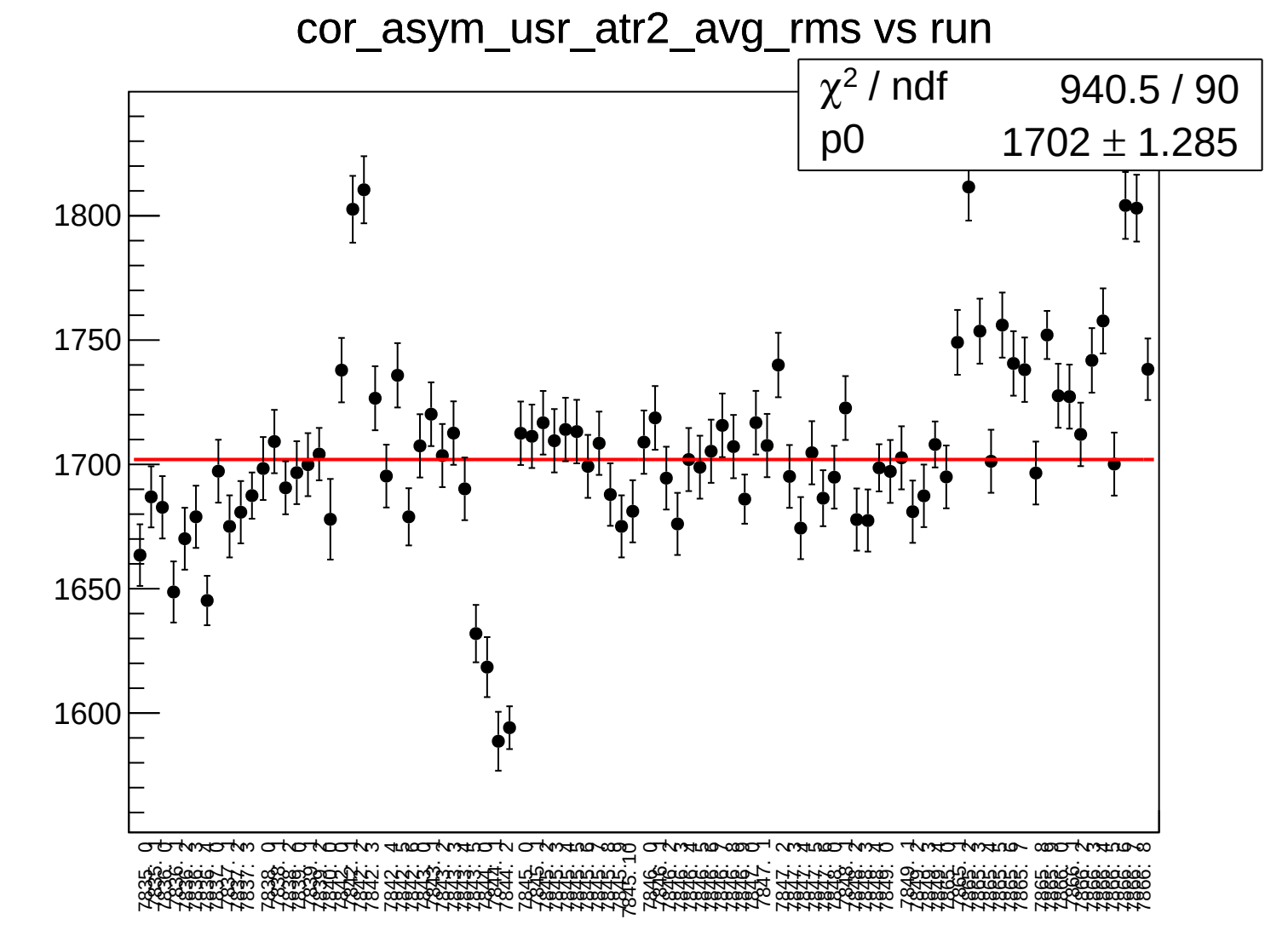

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 75.27 / 90
p0 4272 ± 1817
pull
Entries 91
Mean 280.8
Std Dev 0
pull1D
Entries 91
Mean 0.01169
Std Dev 0.9094

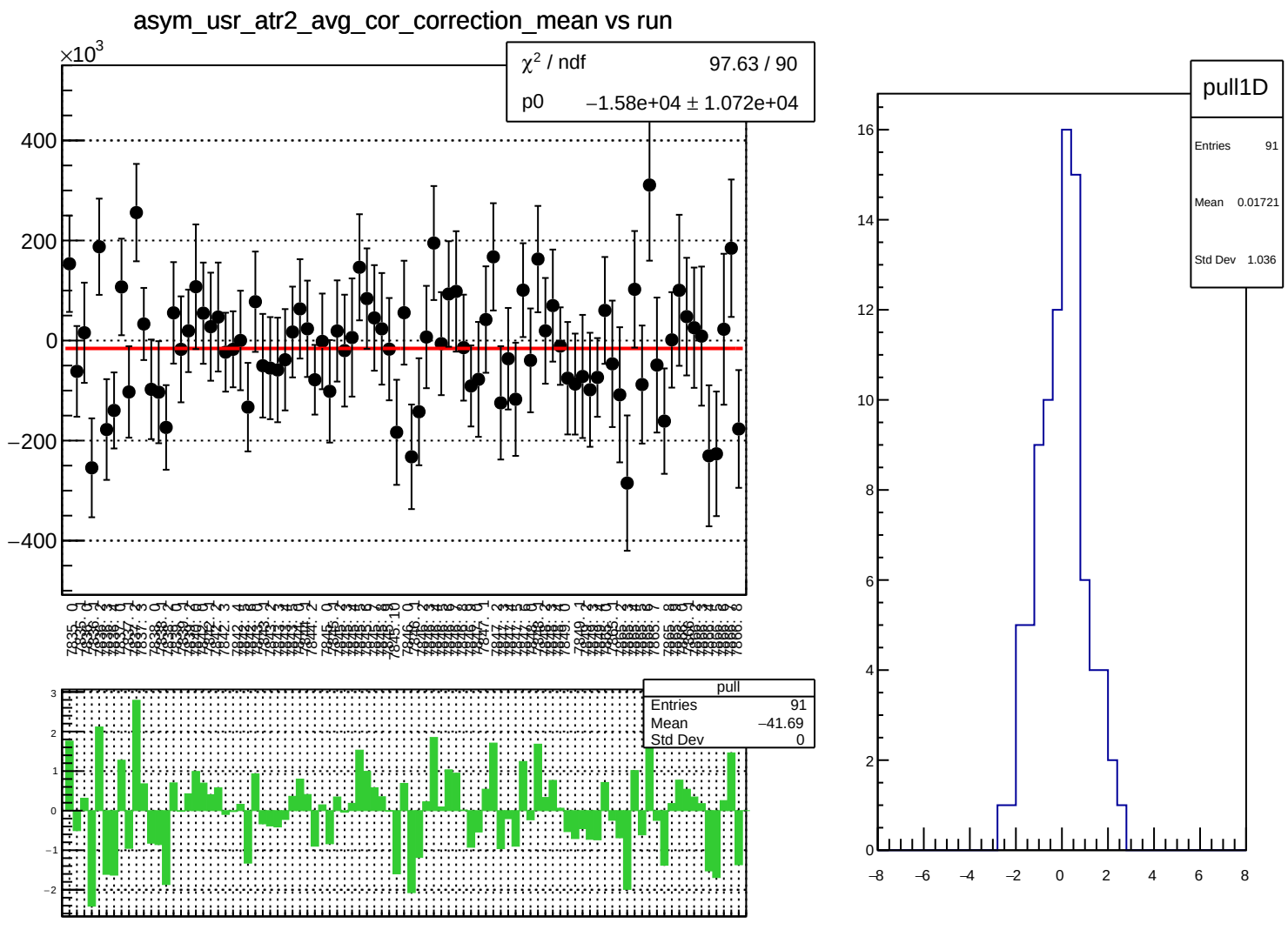

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 940.5 / 90
p0 1702 ± 1.285
1800
1750
1700
1650
1600

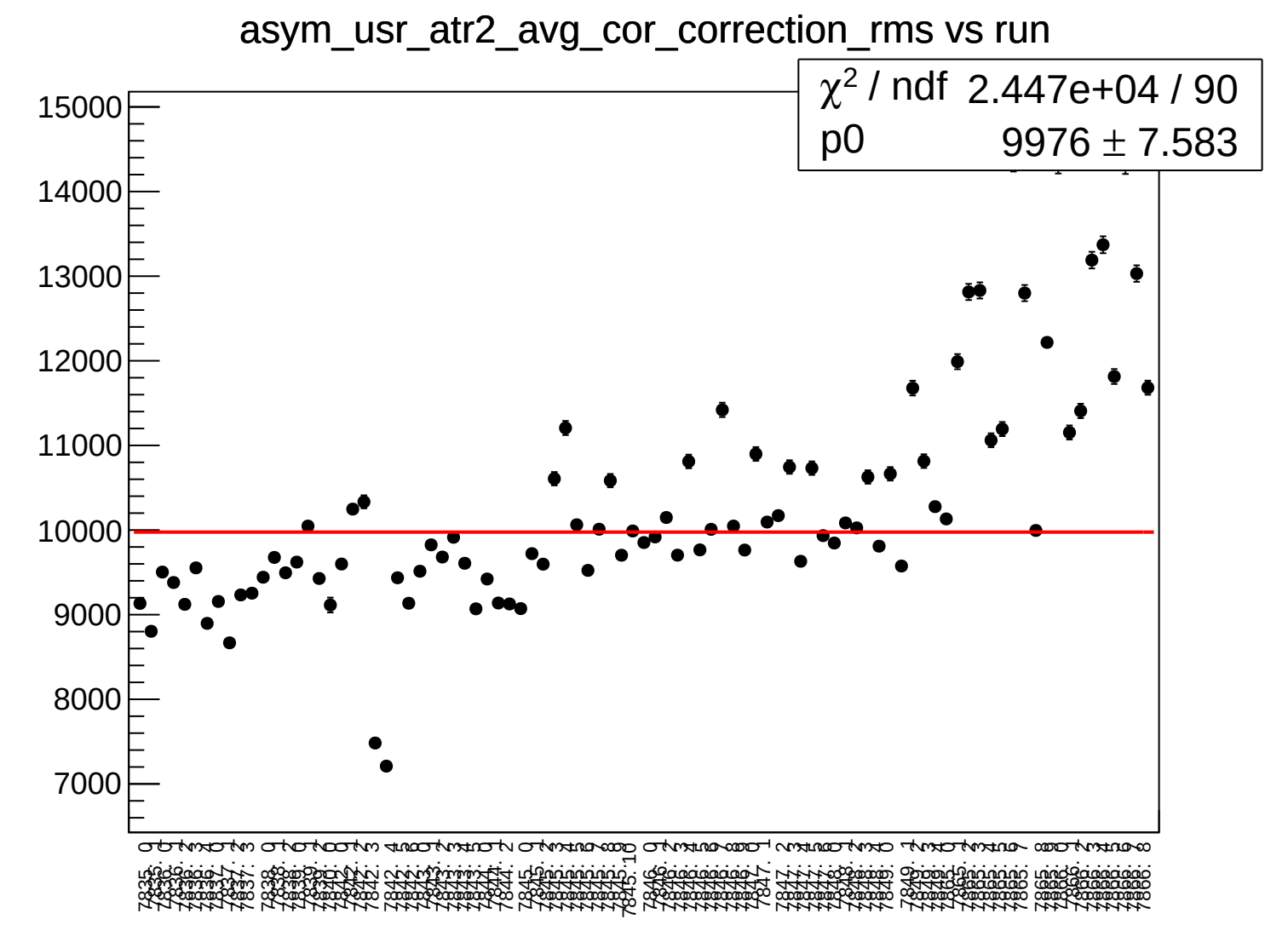

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 97.63 / 90
p0 −1.58e+04 ± 1.072e+04
×10³
400
200
0
−200
−400
pull
Entries 91
Mean −41.68
Std Dev 0
pull1D
Entries 91
Mean 0.01721
Std Dev 1.036

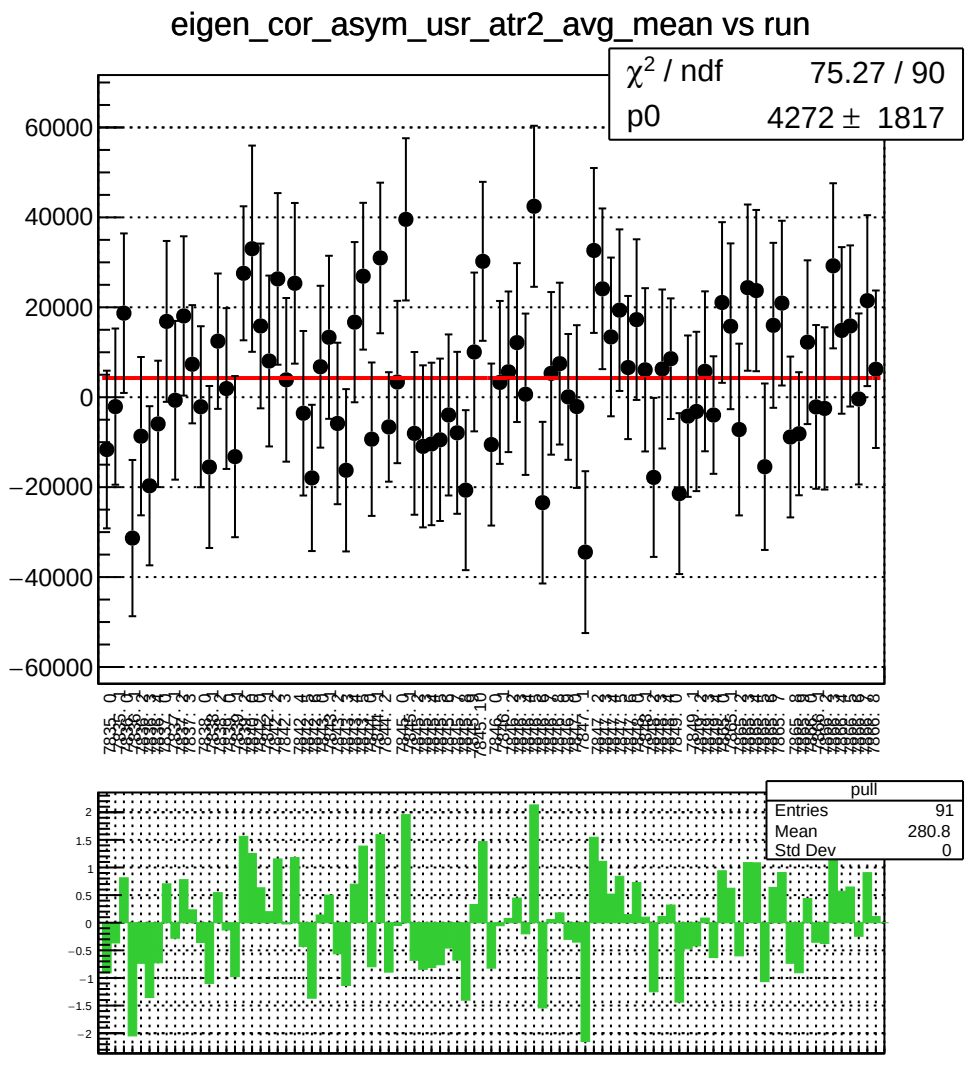

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 2.447e+04 / 90
p0 9976 ± 7.583
15000
14000
13000
12000
11000
10000
9000
8000
7000

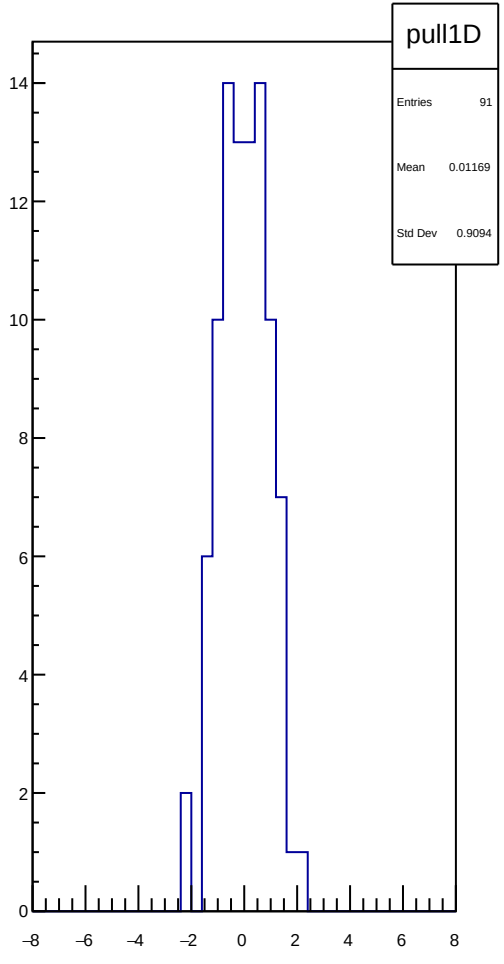

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 75.27 / 90
p0 4272 ± 1817
pull
Entries 91
Mean 280.8
Std Dev 0
pull1D
Entries 91
Mean 0.01169
Std Dev 0.9094

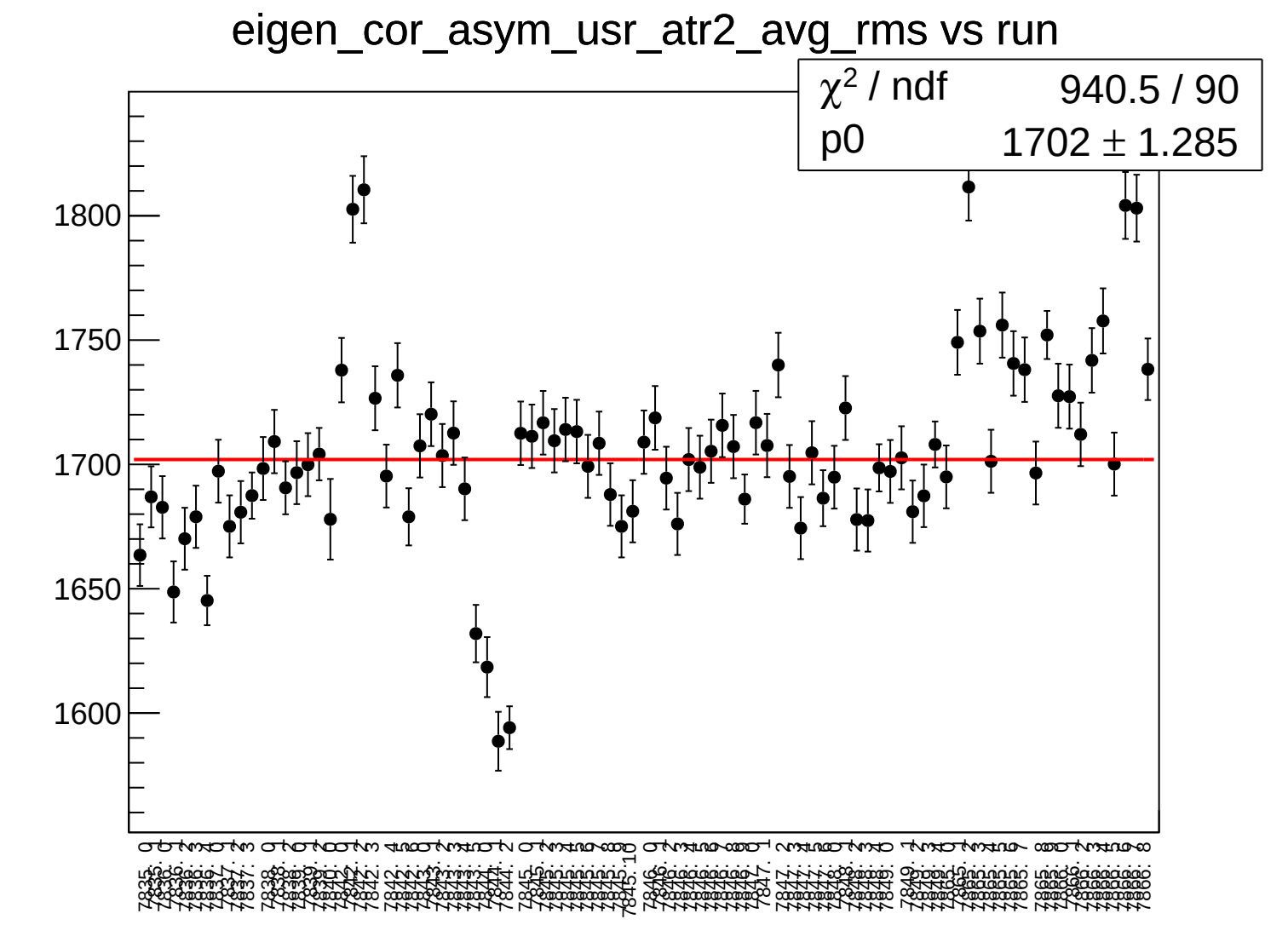

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 940.5 / 90
p0 1702 ± 1.285
1800
1750
1700
1650
1600

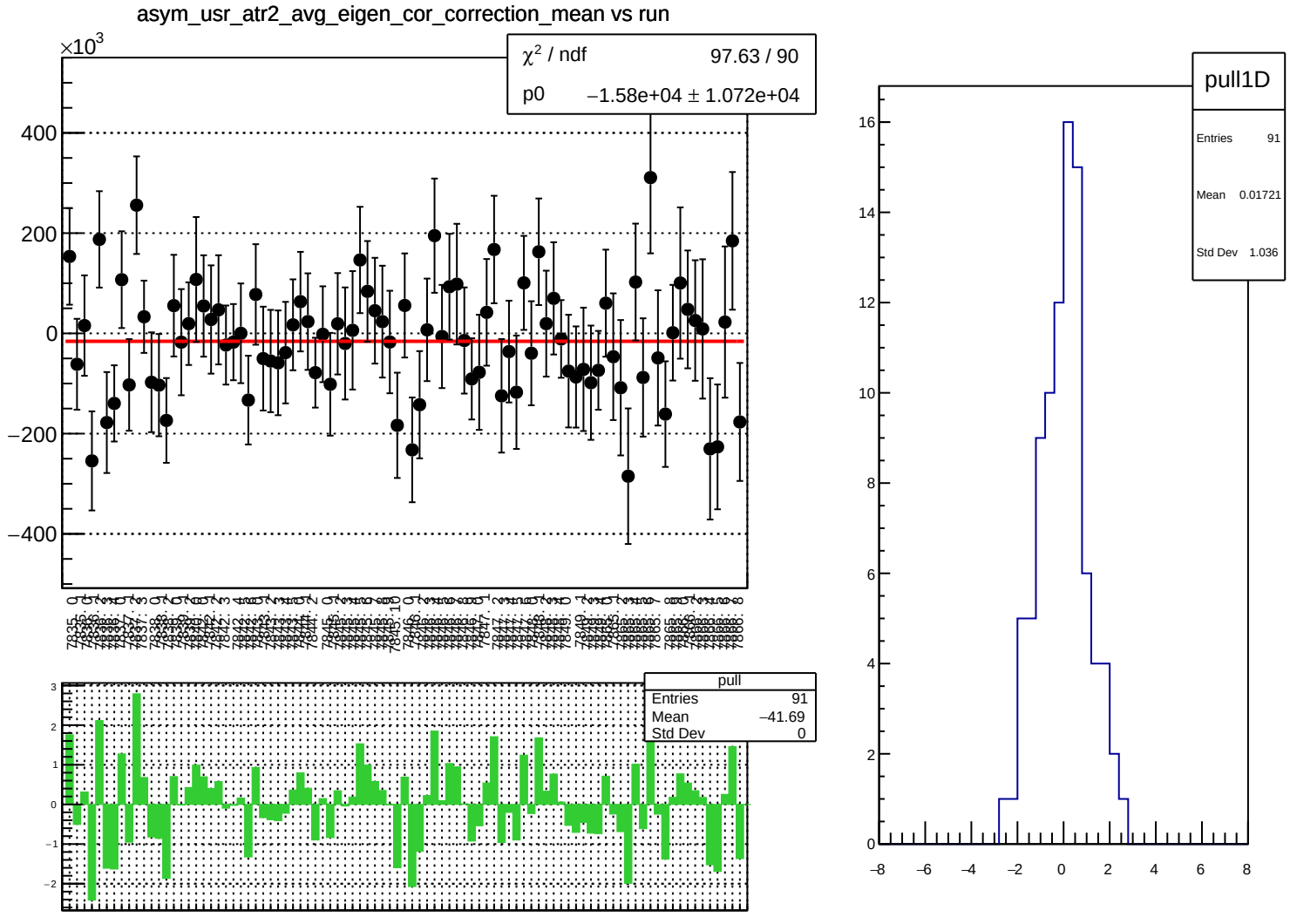

asym_usr_atr2_avg_cor_correction_mean vs run
χ² / ndf 97.63 / 90
p0 −1.58e+04 ± 1.072e+04
×10³
400
200
0
−200
−400
pull
Entries 91
Mean −41.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01721
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

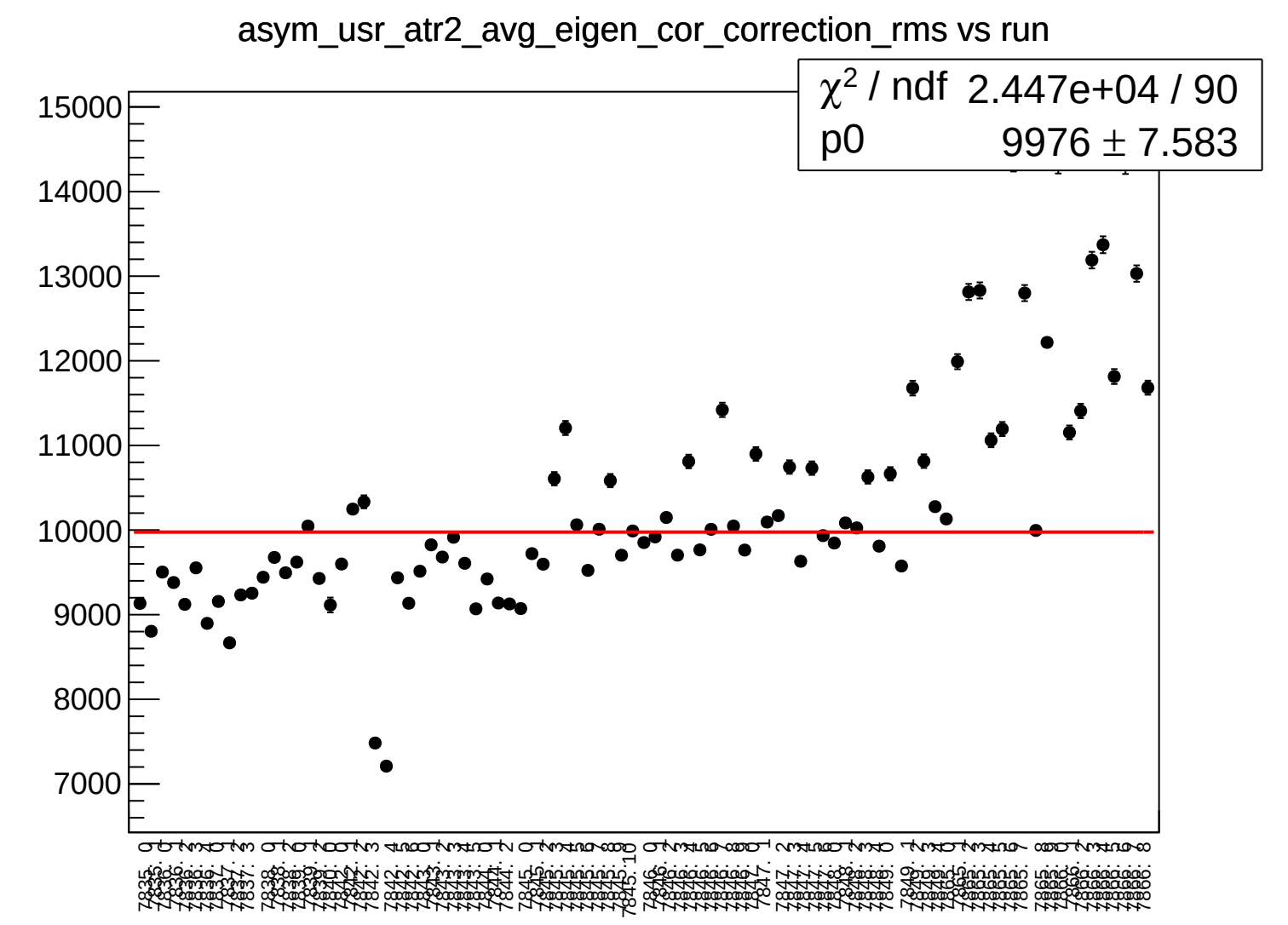

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 2.447e+04 / 90
p0 9976 ± 7.583
15000
14000
13000
12000
11000
10000
9000
8000
7000

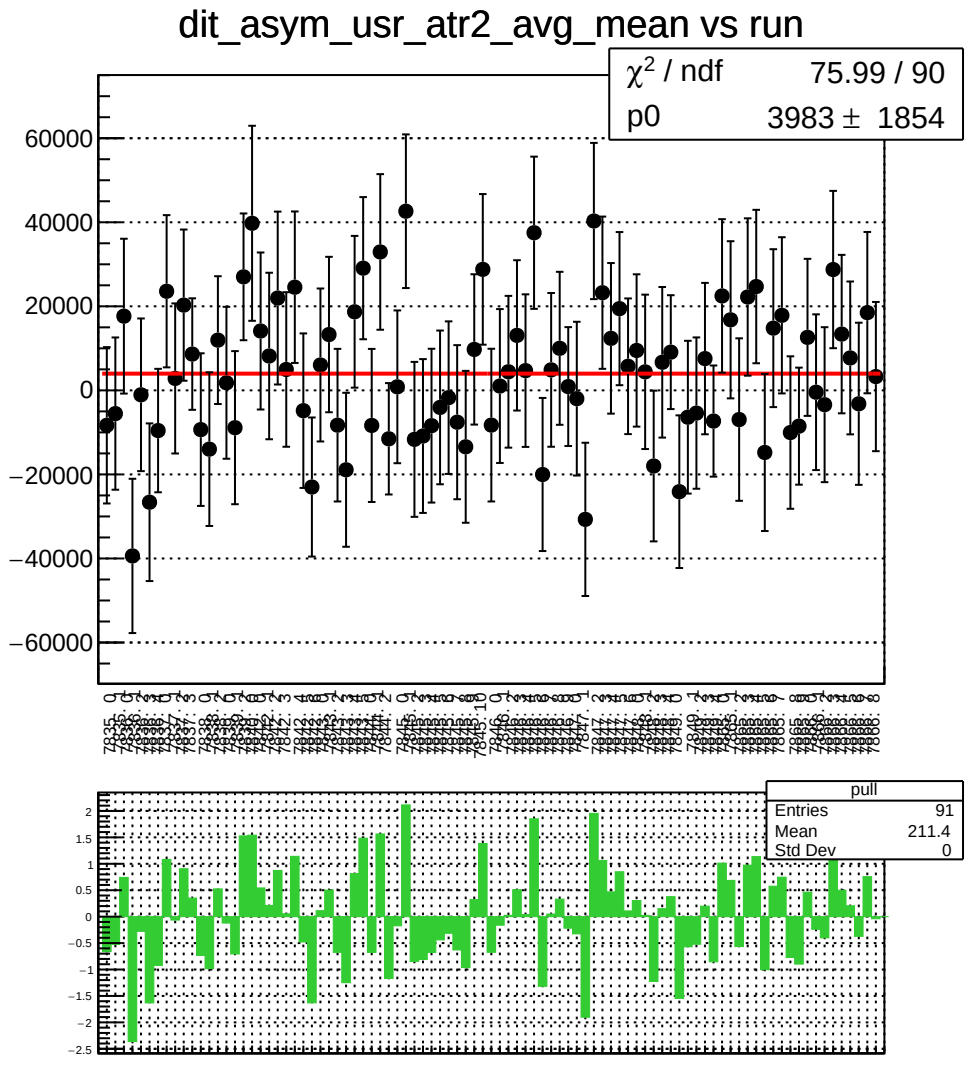

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 75.27 / 90
p0 4272 ± 1817
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 280.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

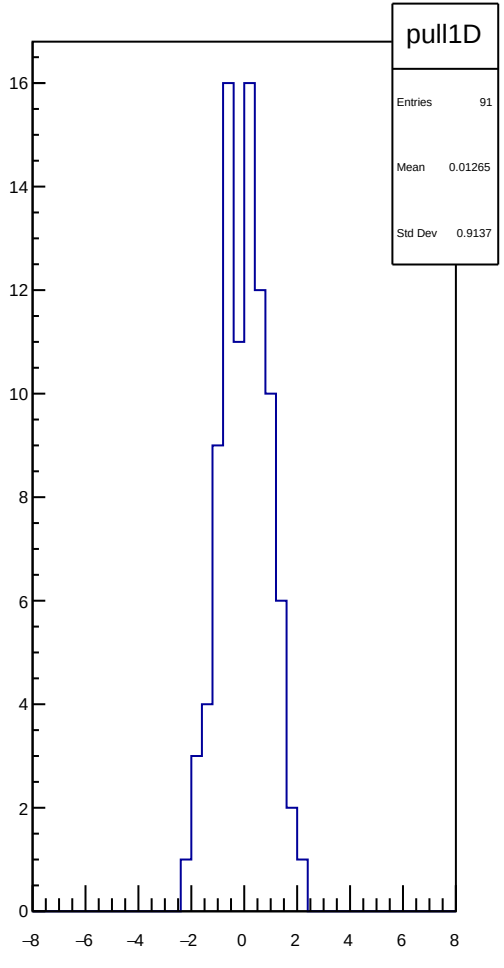

pull1D
Entries 91
Mean 0.01169
Std Dev 0.9094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

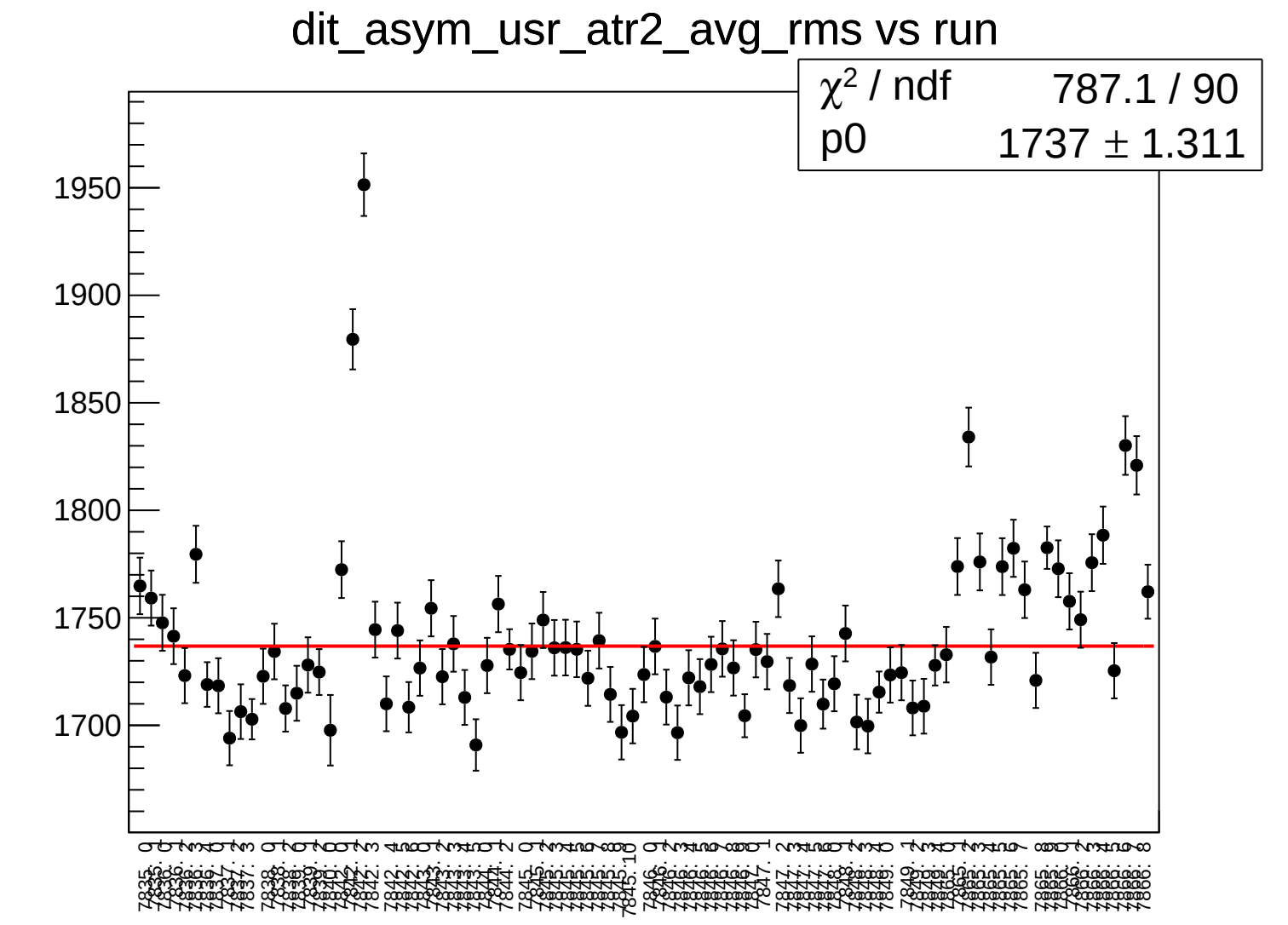

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 940.5 / 90
p0 1702 ± 1.285
1800
1750
1700
1650
1600

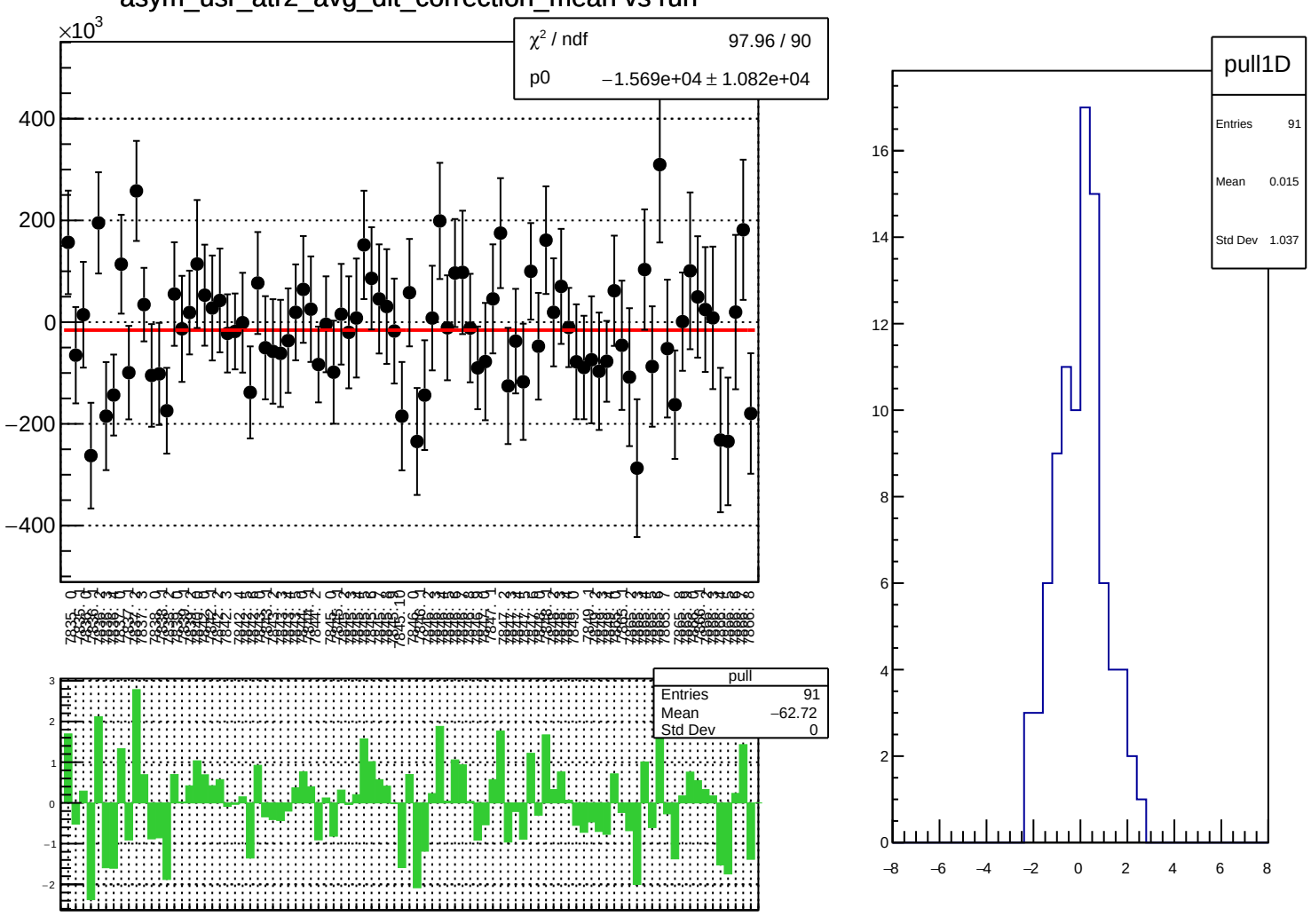

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.63 / 90
p0 −1.58e+04 ± 1.072e+04
400
200
0
−200
−400
pull
Entries 91
Mean −41.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01721
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

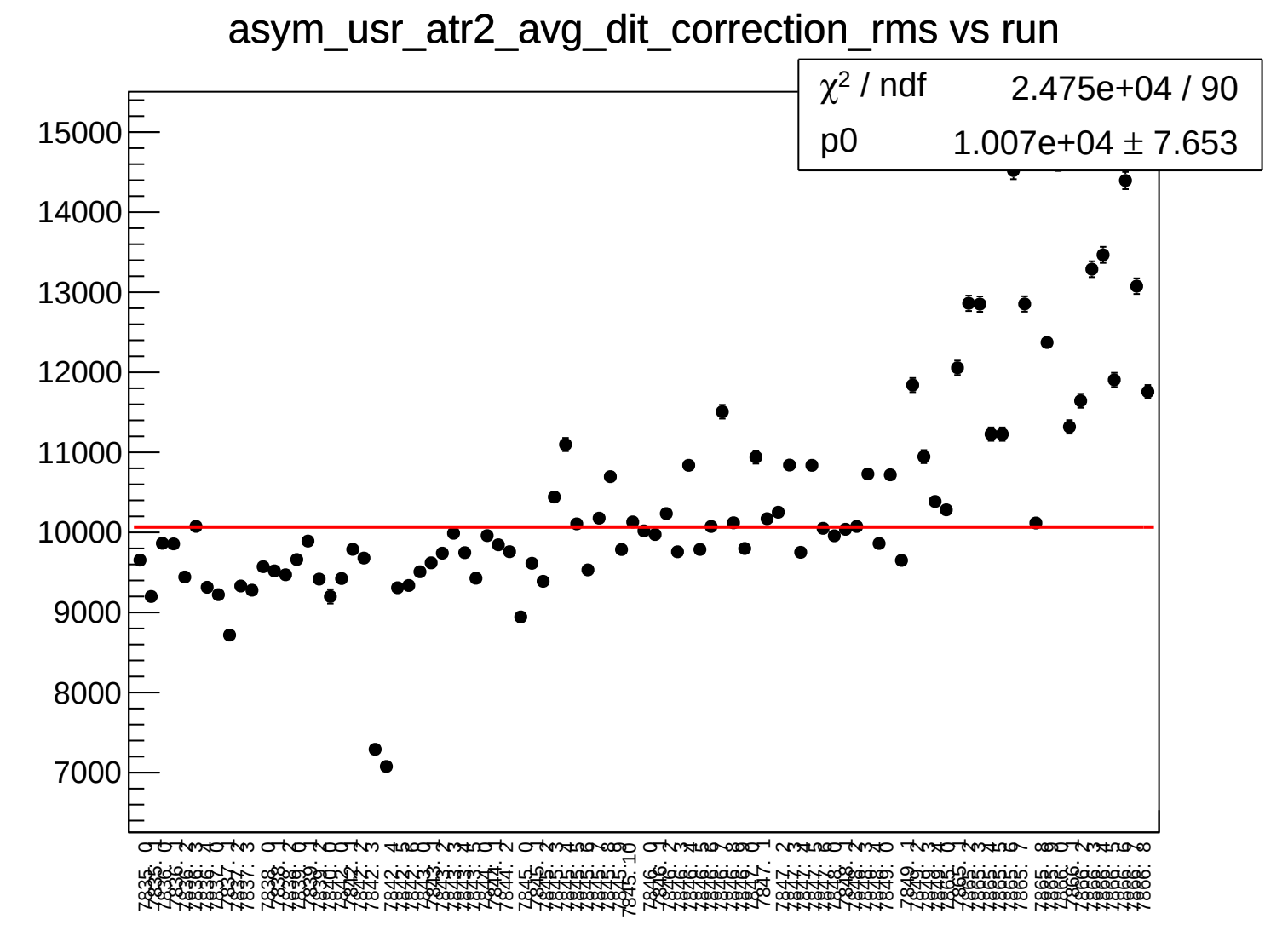

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.447e+04 / 90
p0 9976 ± 7.583
15000
14000
13000
12000
11000
10000
9000
8000
7000

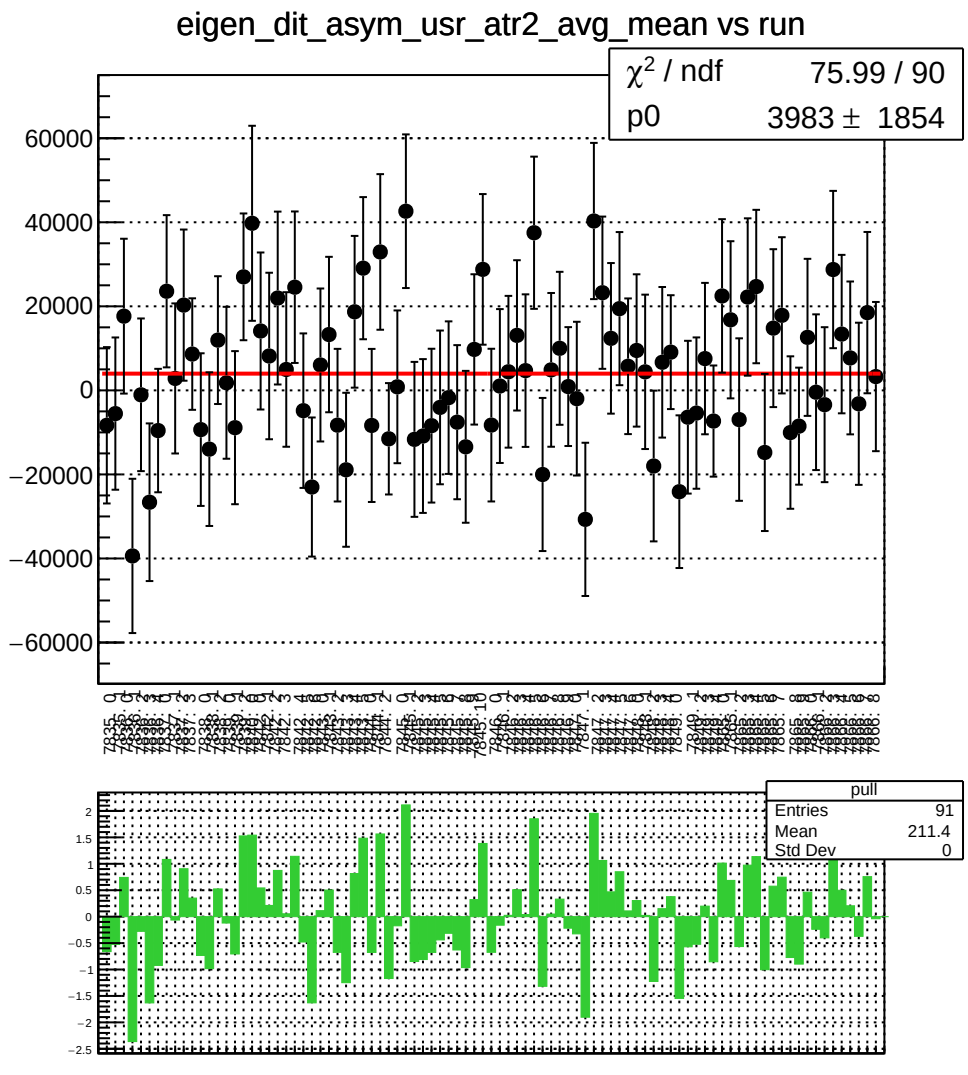

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 75.99 / 90
p0 3983 ± 1854
pull
Entries 91
Mean 211.4
Std Dev 0

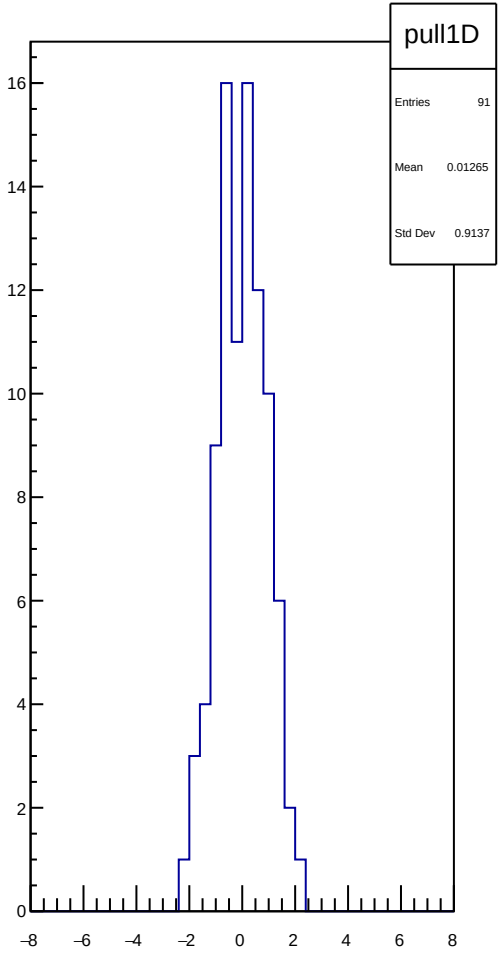

pull1D
Entries 91
Mean 0.01265
Std Dev 0.9137

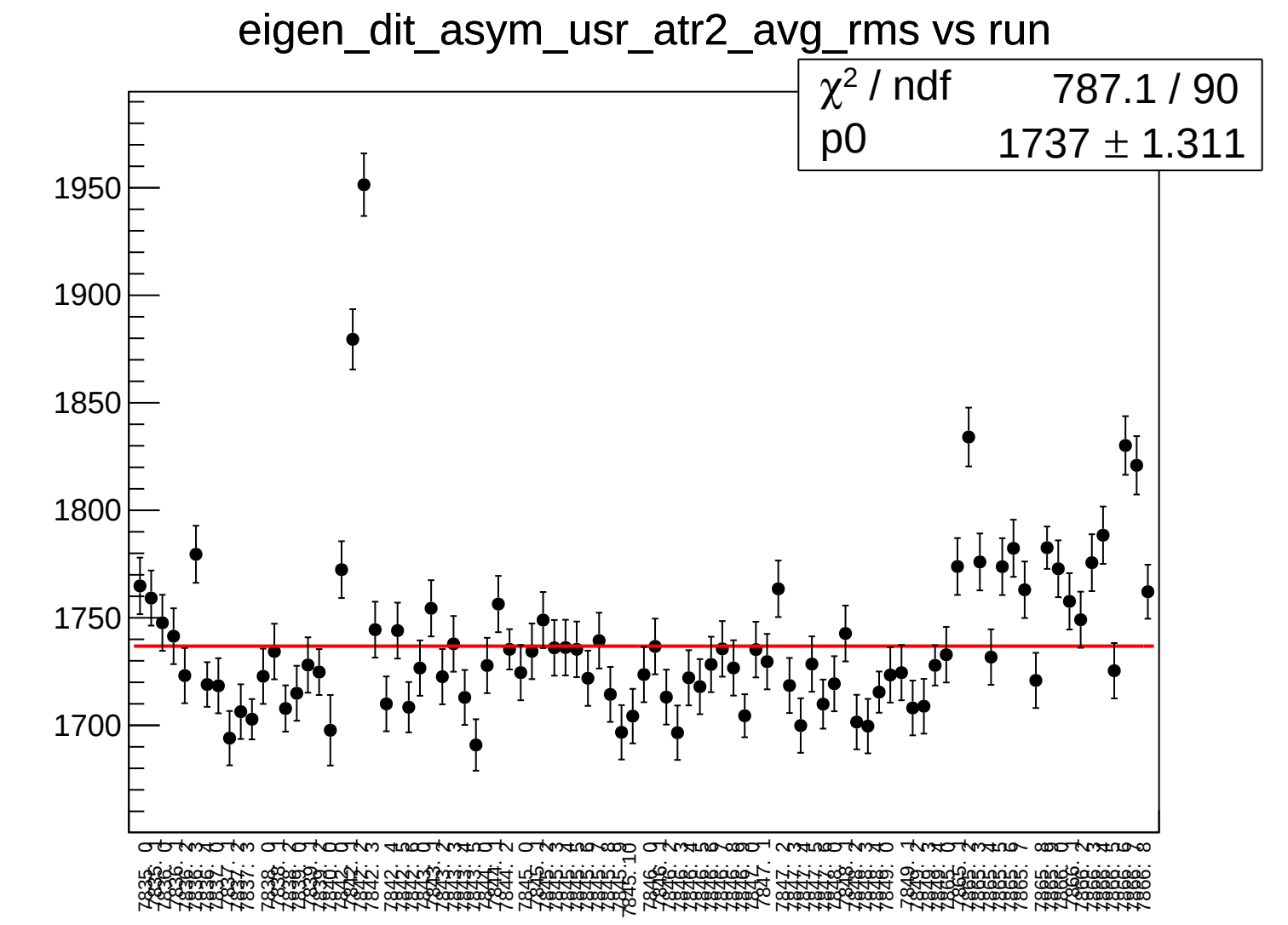

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 787.1 / 90
p0 1737 ± 1.311
1950
1900
1850
1800
1750
1700

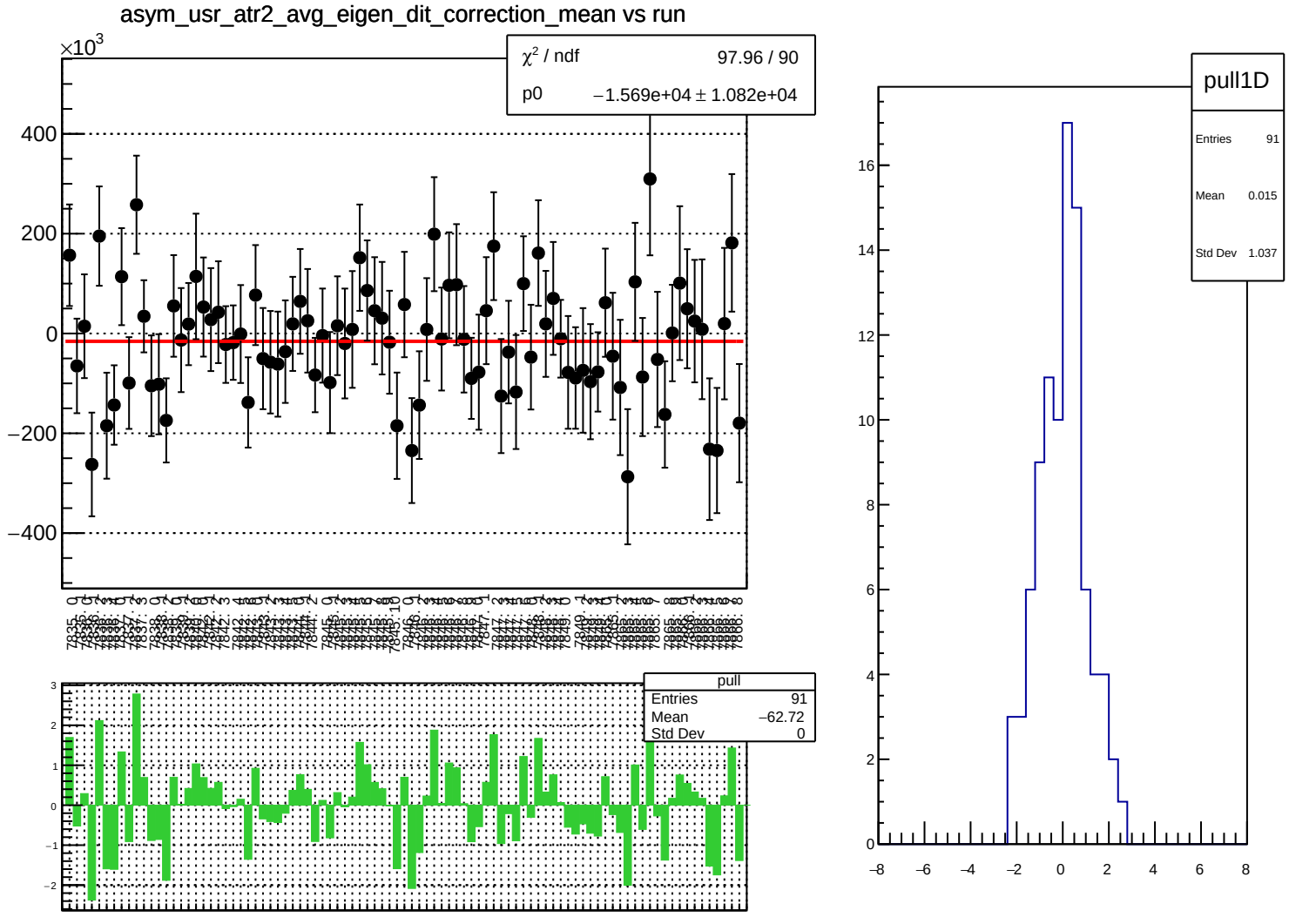

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.96 / 90
p0 −1.569e+04 ± 1.082e+04
400
200
0
−200
−400
pull
Entries 91
Mean −62.72
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.015
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

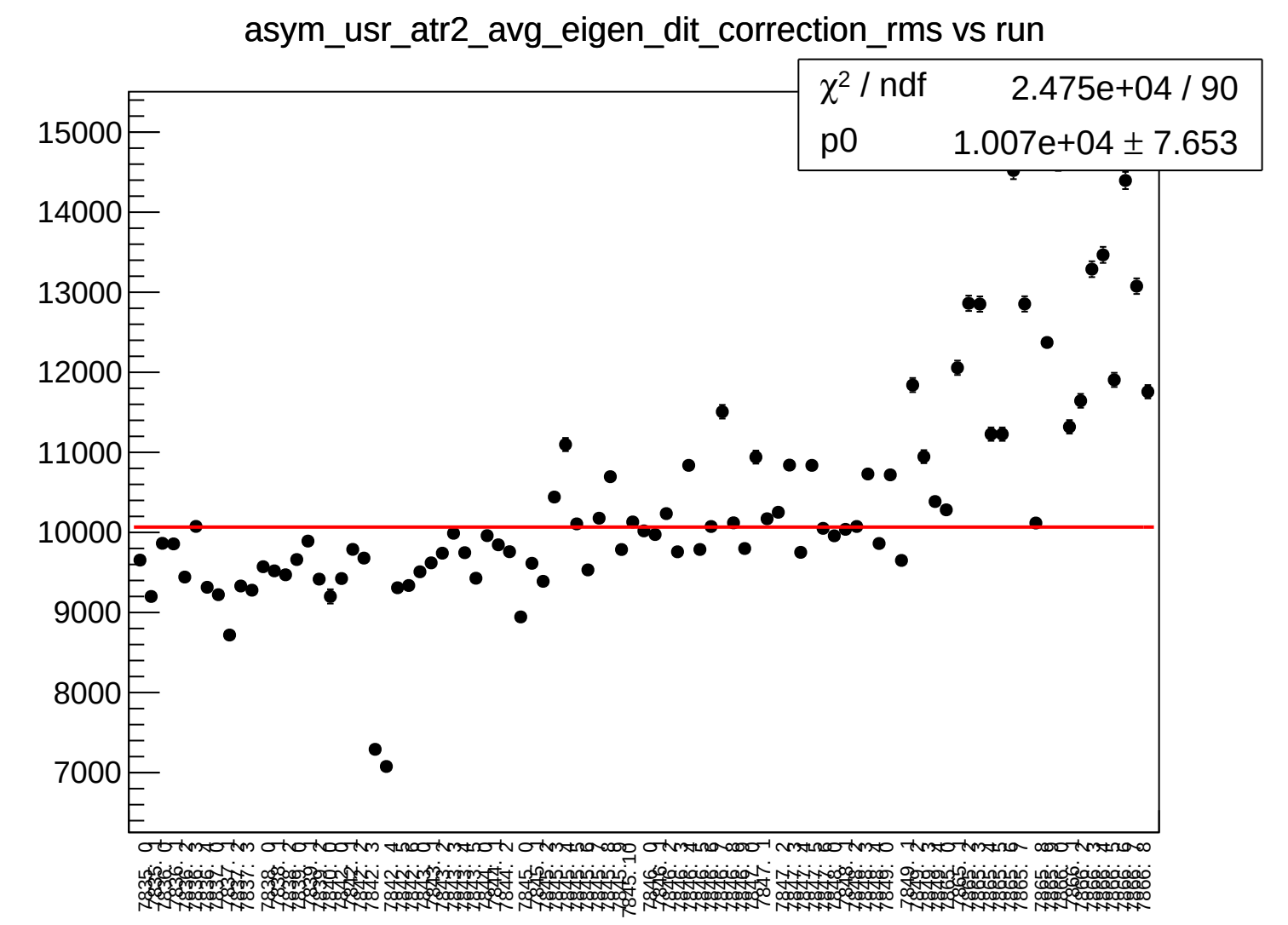

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2.475e+04 / 90
p0 1.007e+04 ± 7.653
15000
14000
13000
12000
11000
10000
9000
8000
7000

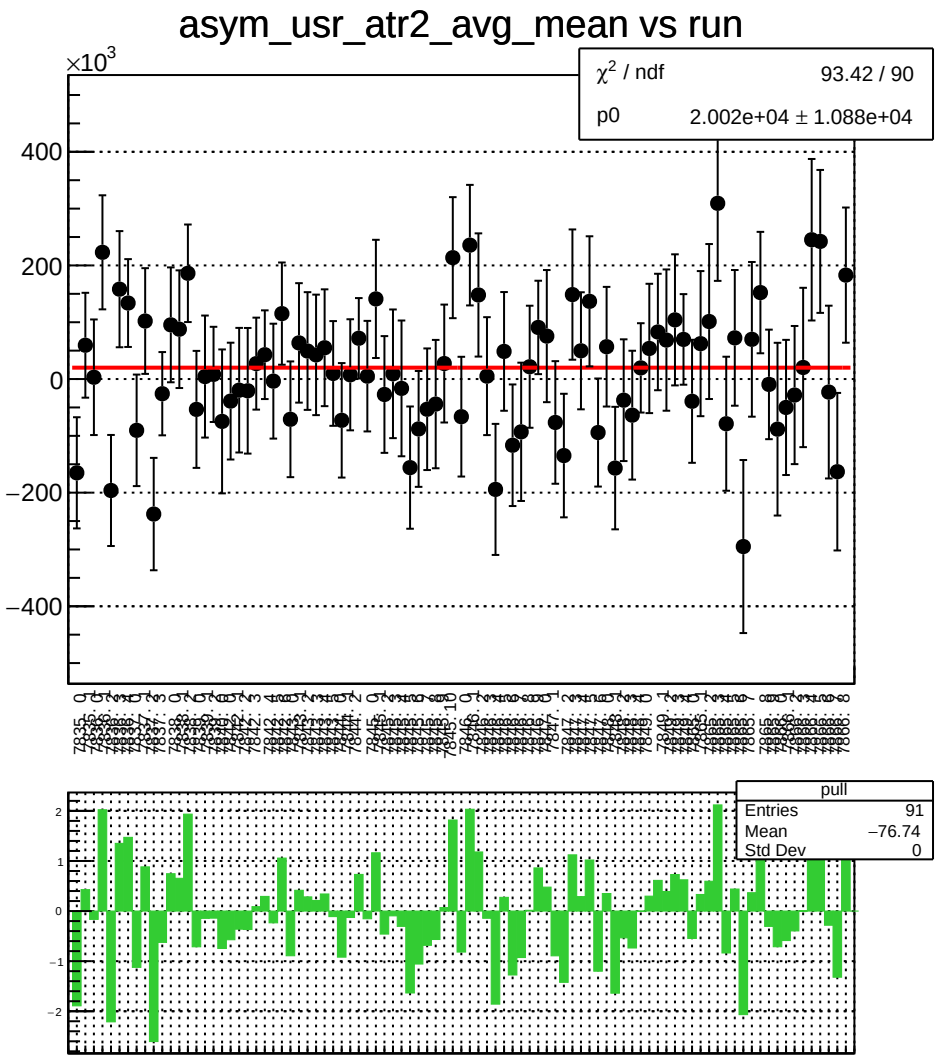

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 75.99 / 90
p0 3983 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 211.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

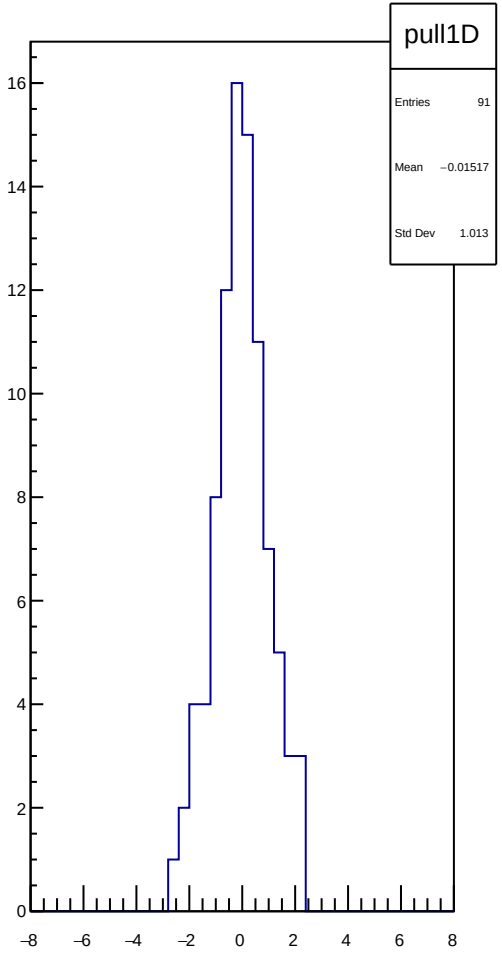

pull1D
Entries 91
Mean 0.01265
Std Dev 0.9137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

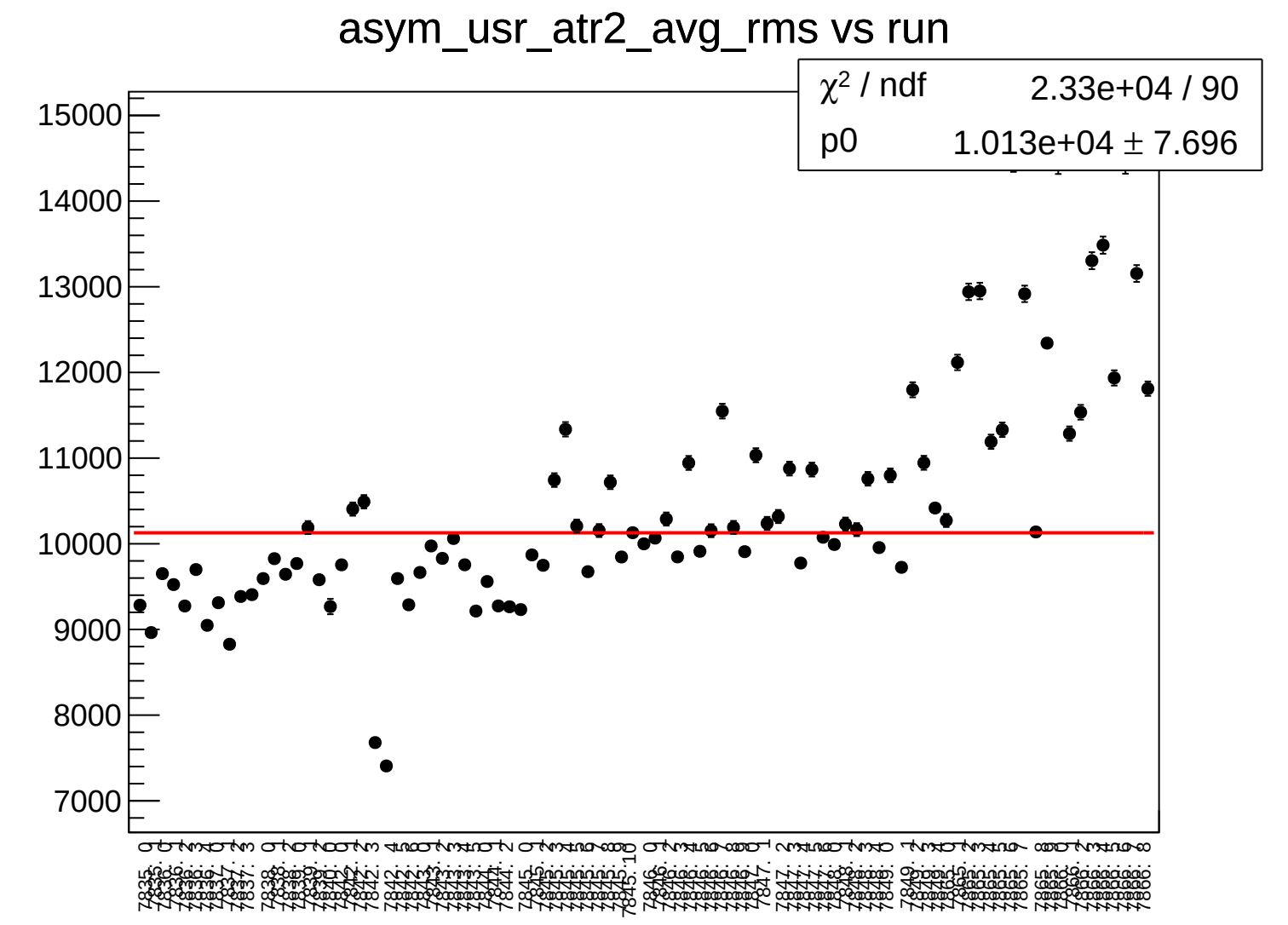

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 787.1 / 90
p0 1737 ± 1.311
1950
1900
1850
1800
1750
1700

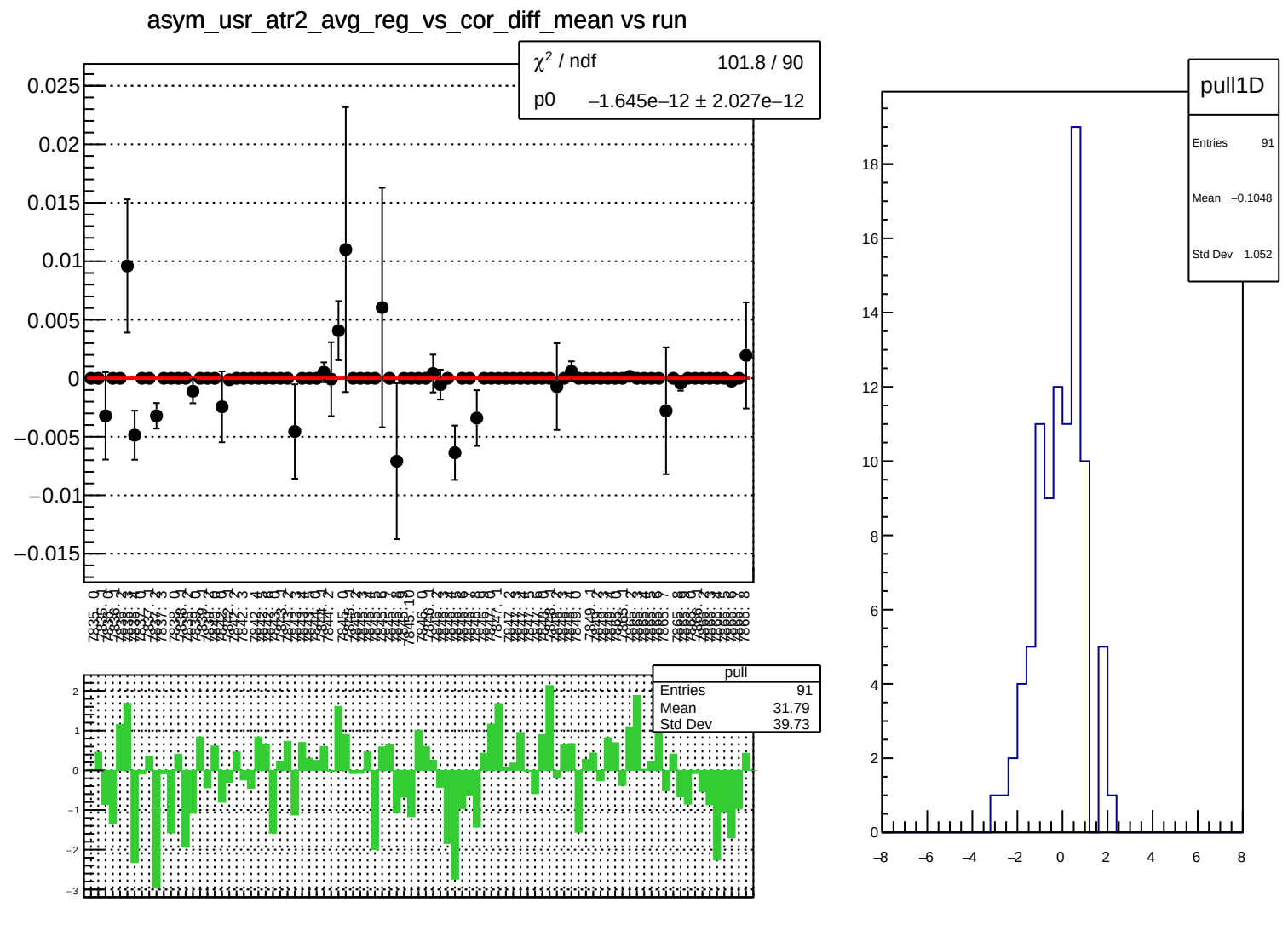

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.96 / 90
p0 −1.569e+04 ± 1.082e+04
400
200
0
−200
−400
pull
Entries 91
Mean −62.72
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.015
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

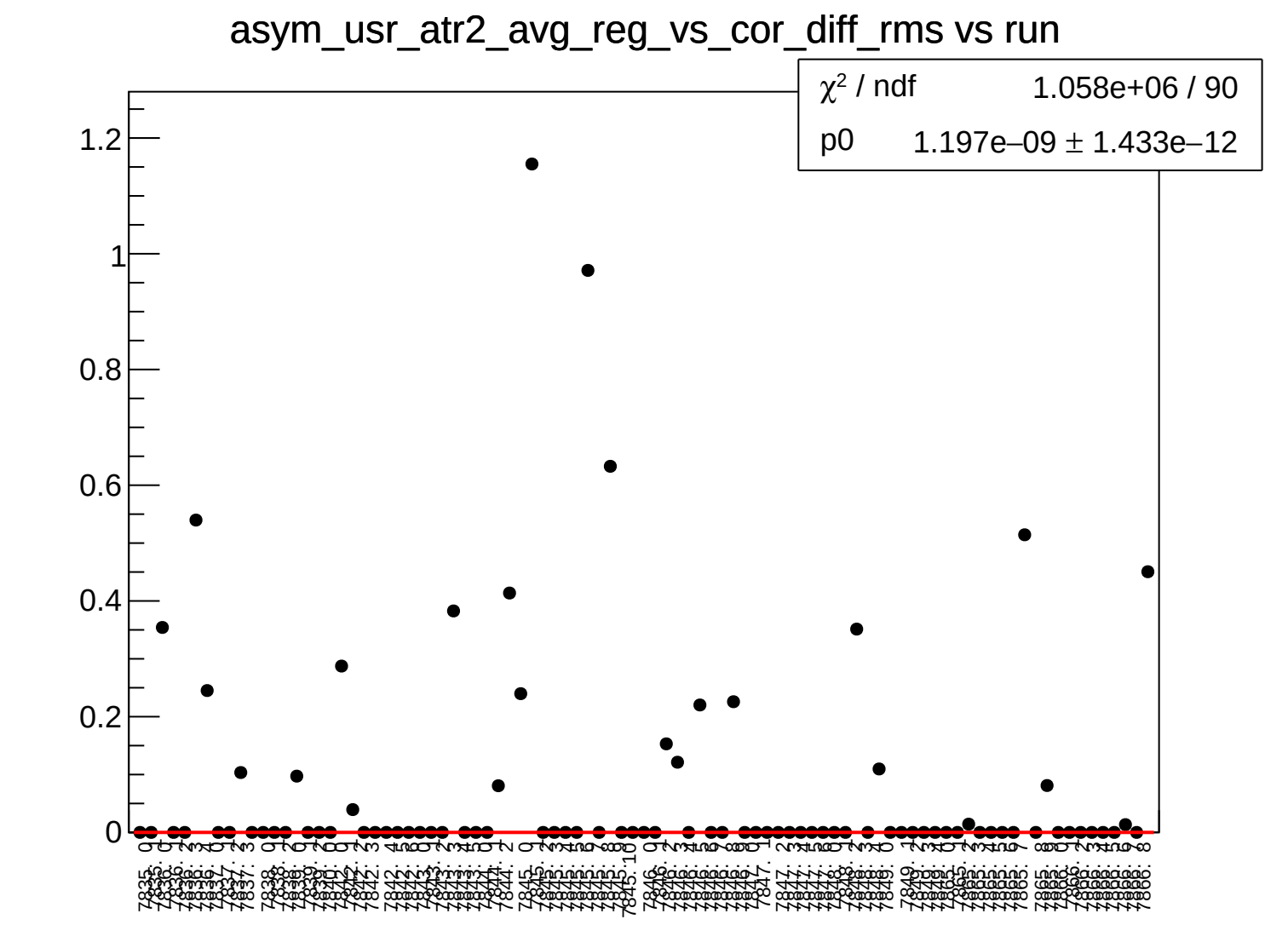

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.475e+04 / 90
p0 1.007e+04 ± 7.653
15000
14000
13000
12000
11000
10000
9000
8000
7000

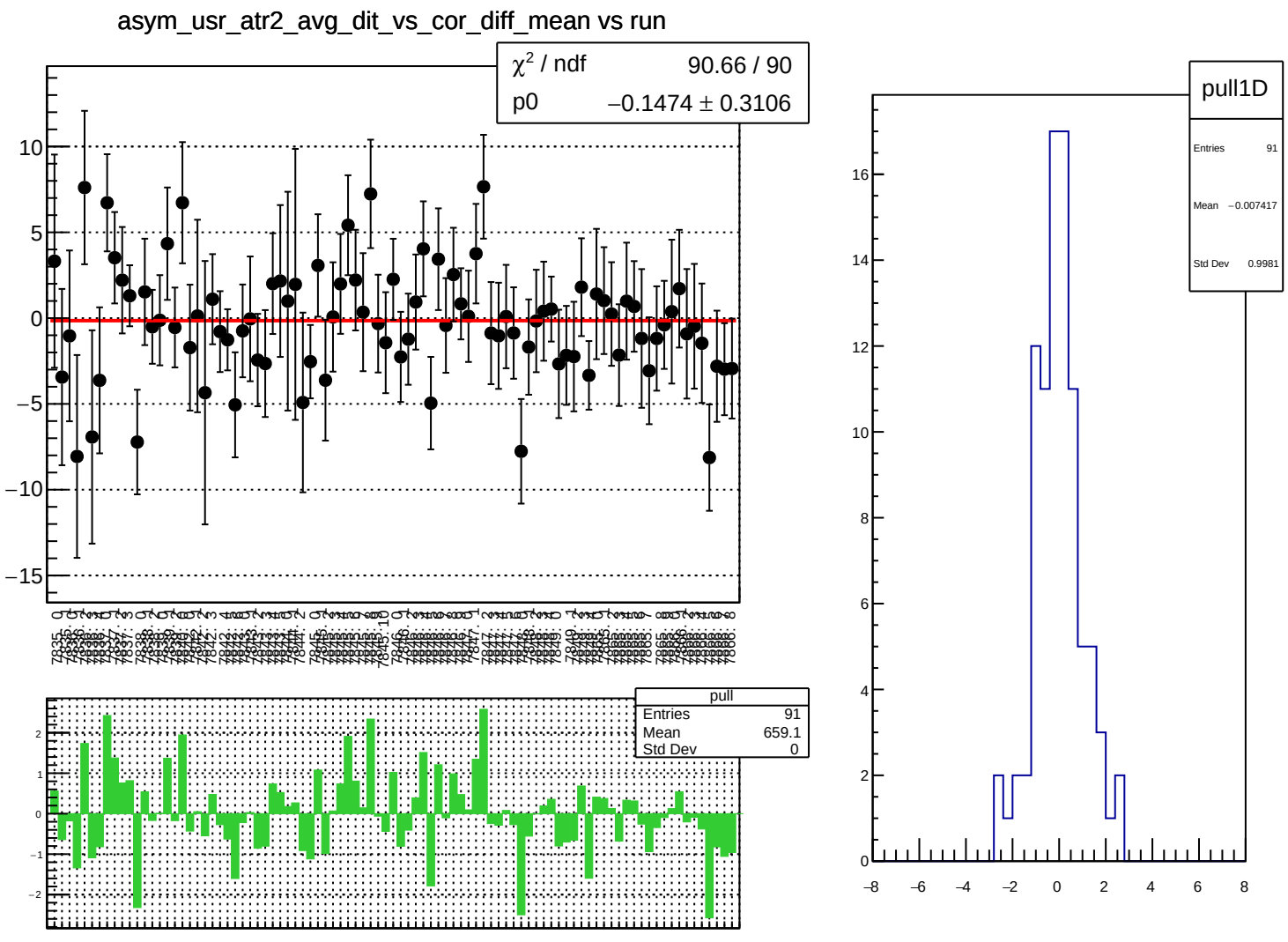

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 93.42 / 90
p0 2.002e+04 ± 1.088e+04
400
200
0
−200
−400
pull
Entries 91
Mean −76.74
Std Dev 0
2
1
0
−1
−2

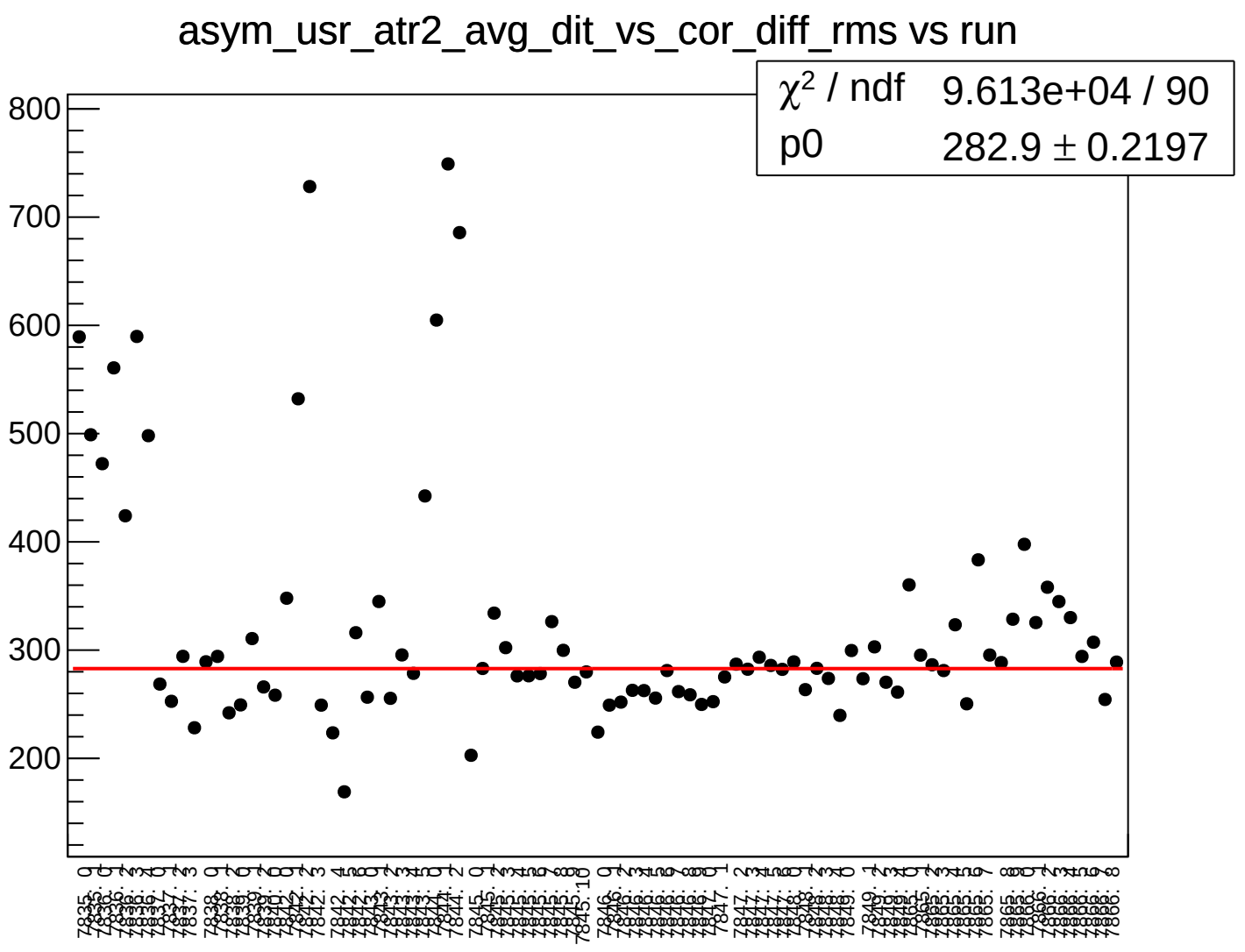

pull1D
Entries 91
Mean −0.01517
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

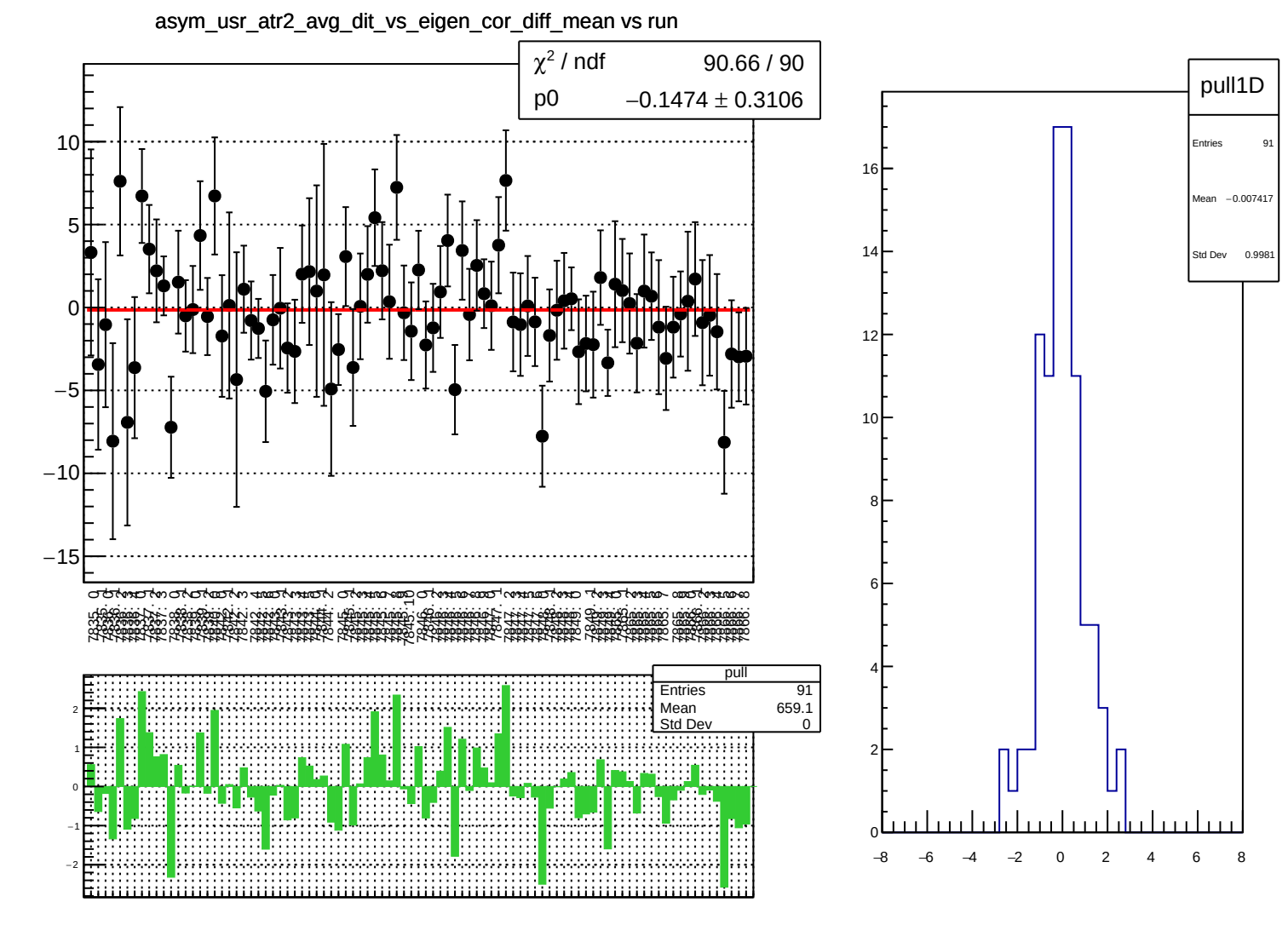

asym_usr_atr2_avg_rms vs run
χ² / ndf 2.33e+04 / 90
p0 1.013e+04 ± 7.696
15000
14000
13000
12000
11000
10000
9000
8000
7000

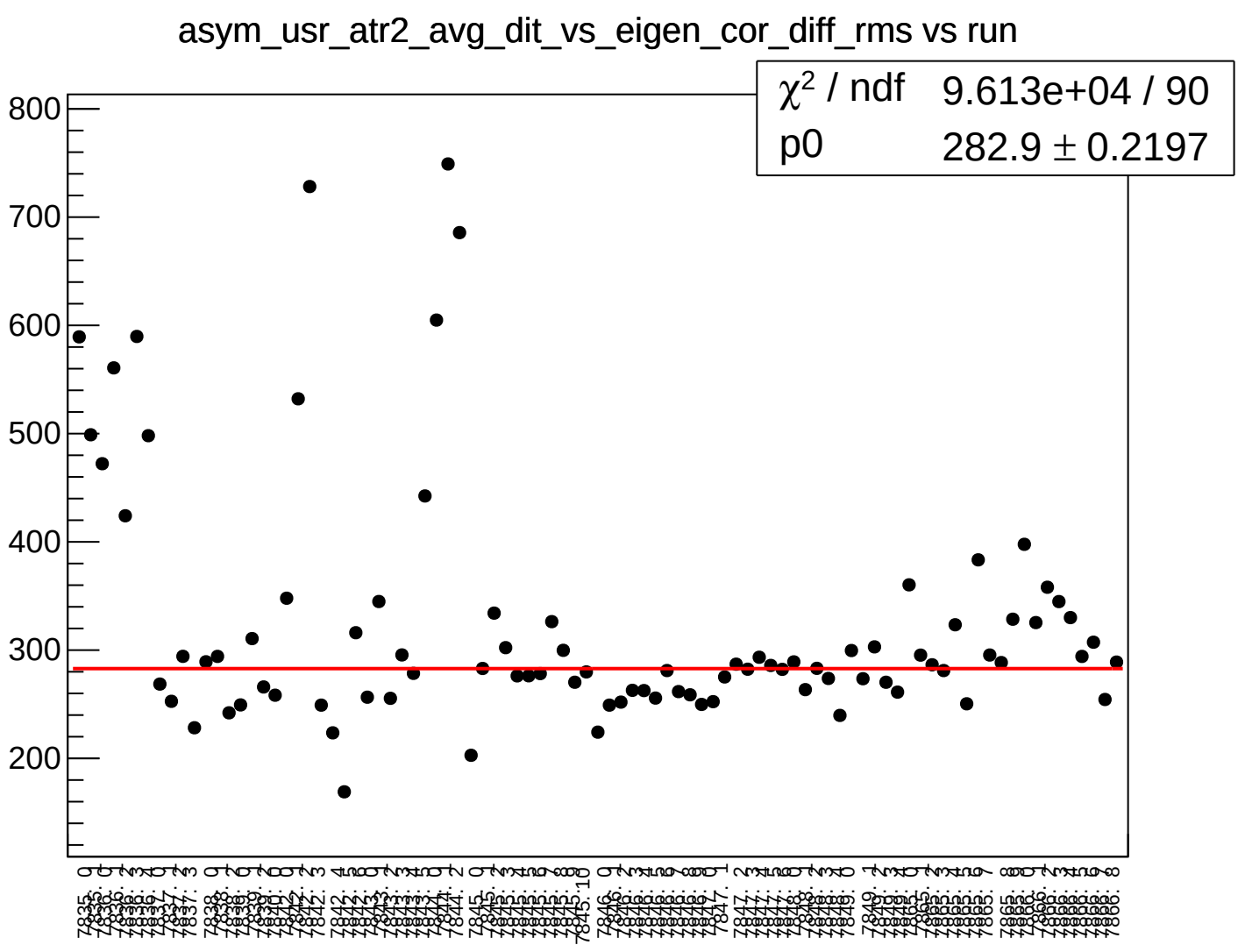

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 90
p0 −1.645e−12 ± 2.027e−12
pull
Entries 91
Mean 31.79
Std Dev 39.73
pull1D
Entries 91
Mean −0.1048
Std Dev 1.052

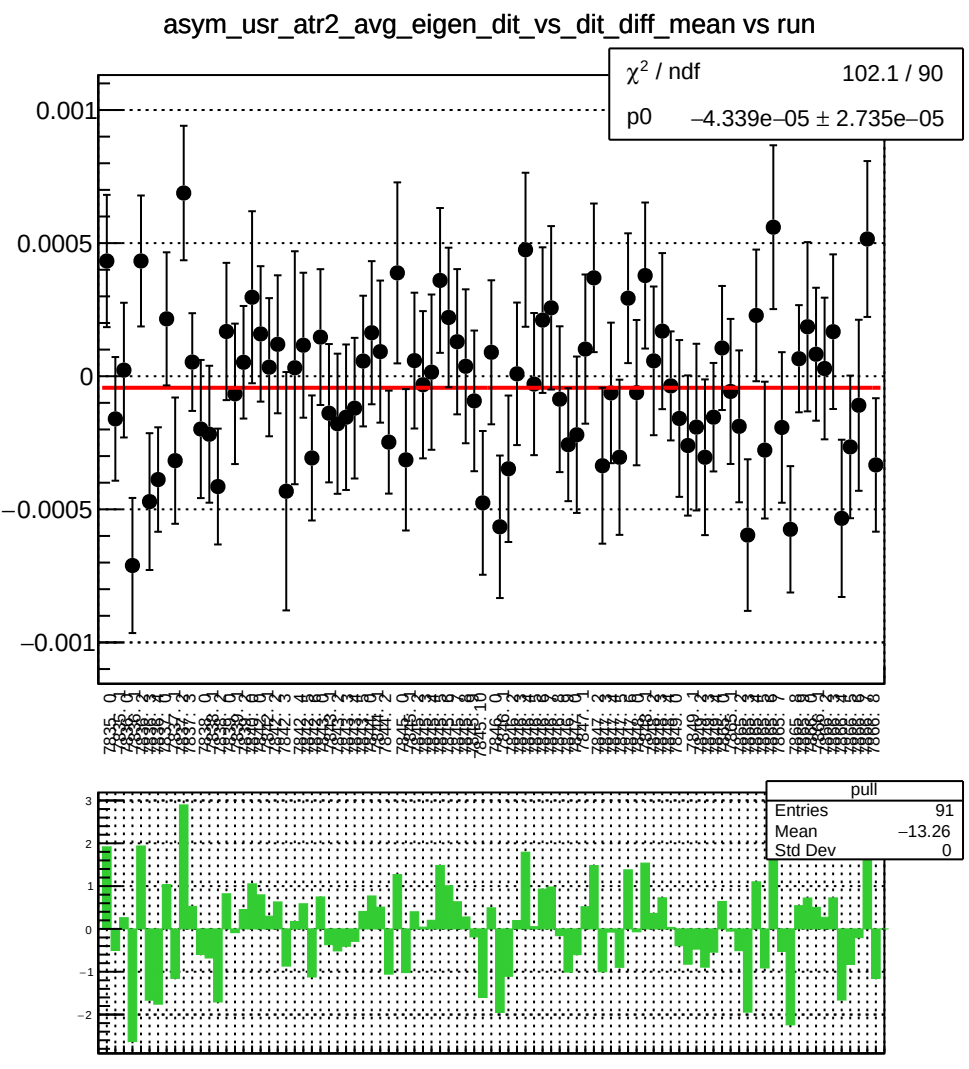

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 90
p0 1.197e−09 ± 1.433e−12
1.2
1
0.8
0.6
0.4
0.2
0

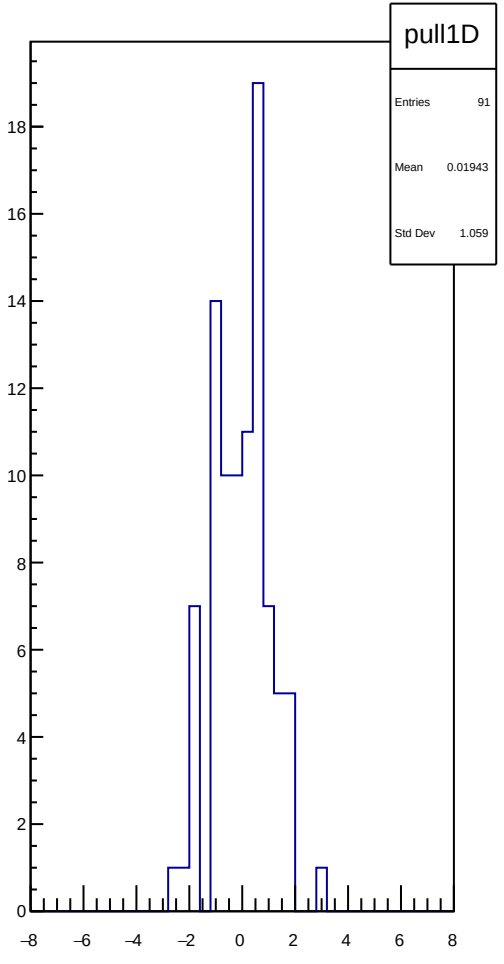

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.66 / 90
p0 −0.1474 ± 0.3106
pull
Entries 91
Mean 659.1
Std Dev 0
pull1D
Entries 91
Mean −0.007417
Std Dev 0.9981

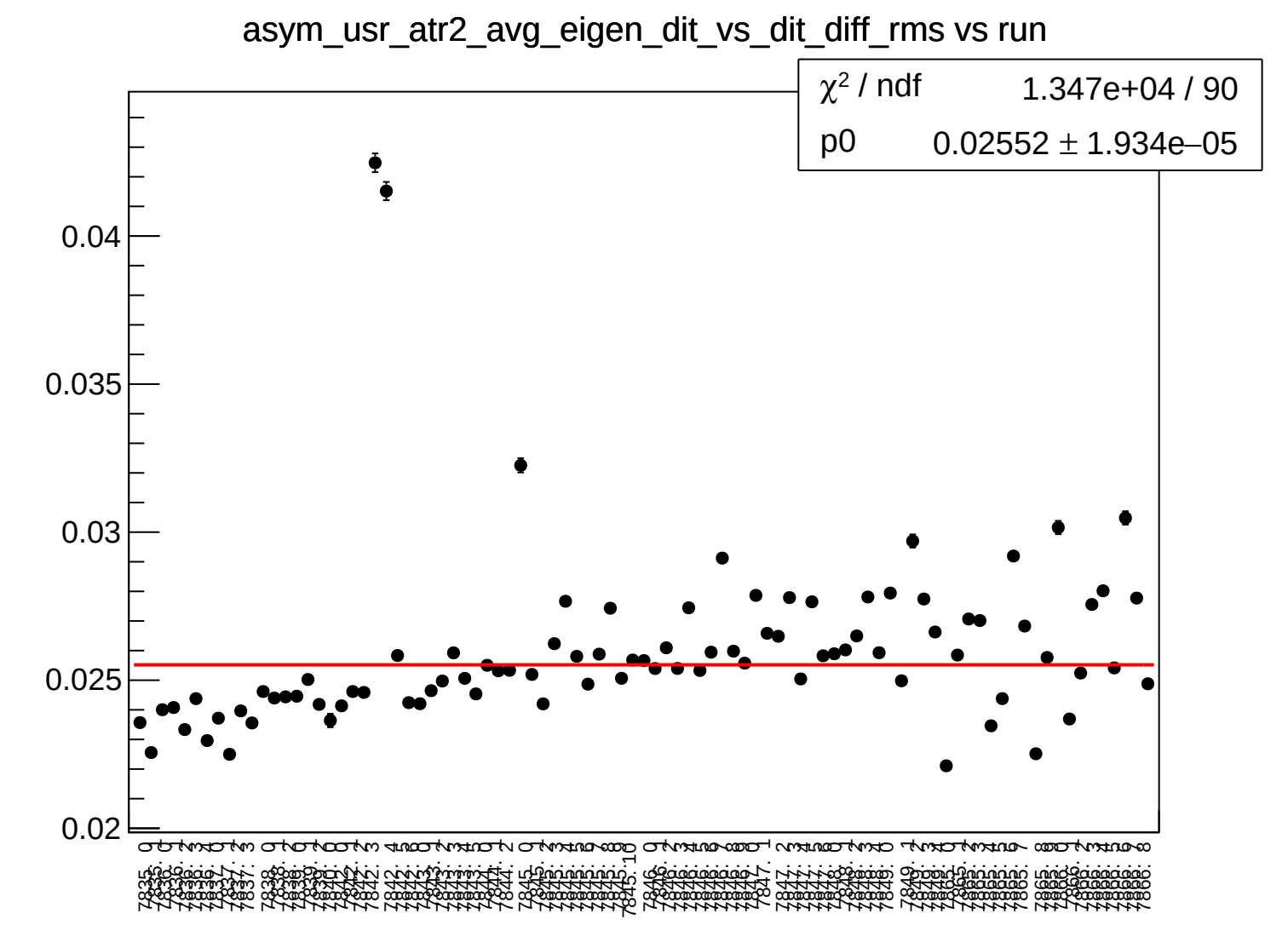

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.613e+04 / 90
p0 282.9 ± 0.2197
800
700
600
500
400
300
200

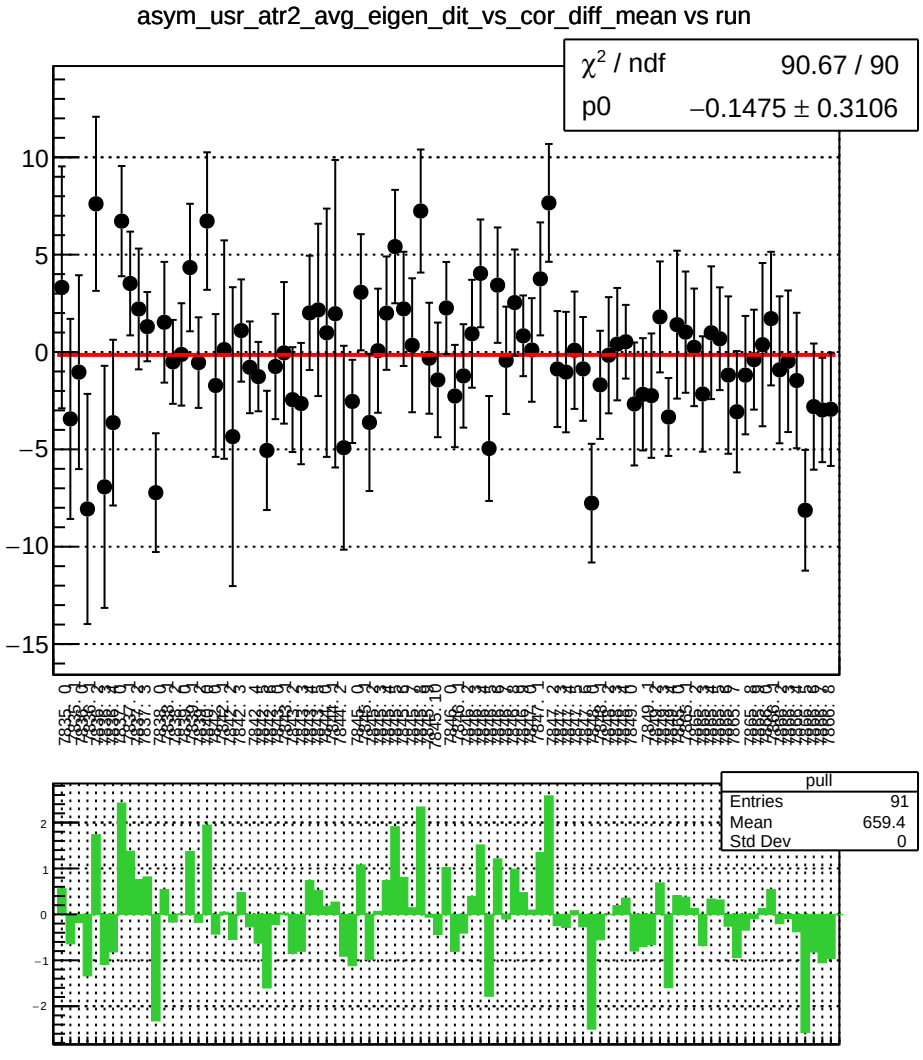

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.66 / 90
p0 −0.1474 ± 0.3106
pull
Entries 91
Mean 659.1
Std Dev 0
pull1D
Entries 91
Mean −0.007417
Std Dev 0.9981

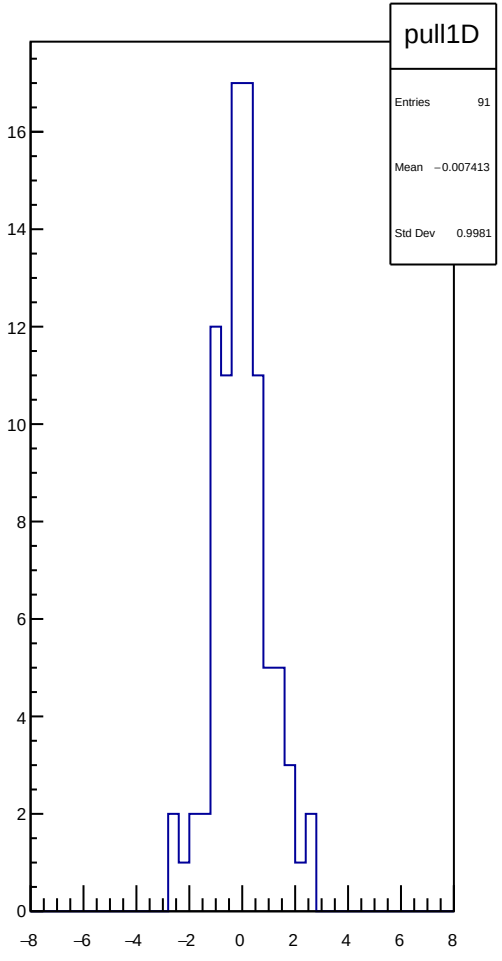

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.613e+04 / 90
p0 282.9 ± 0.2197
800
700
600
500
400
300
200

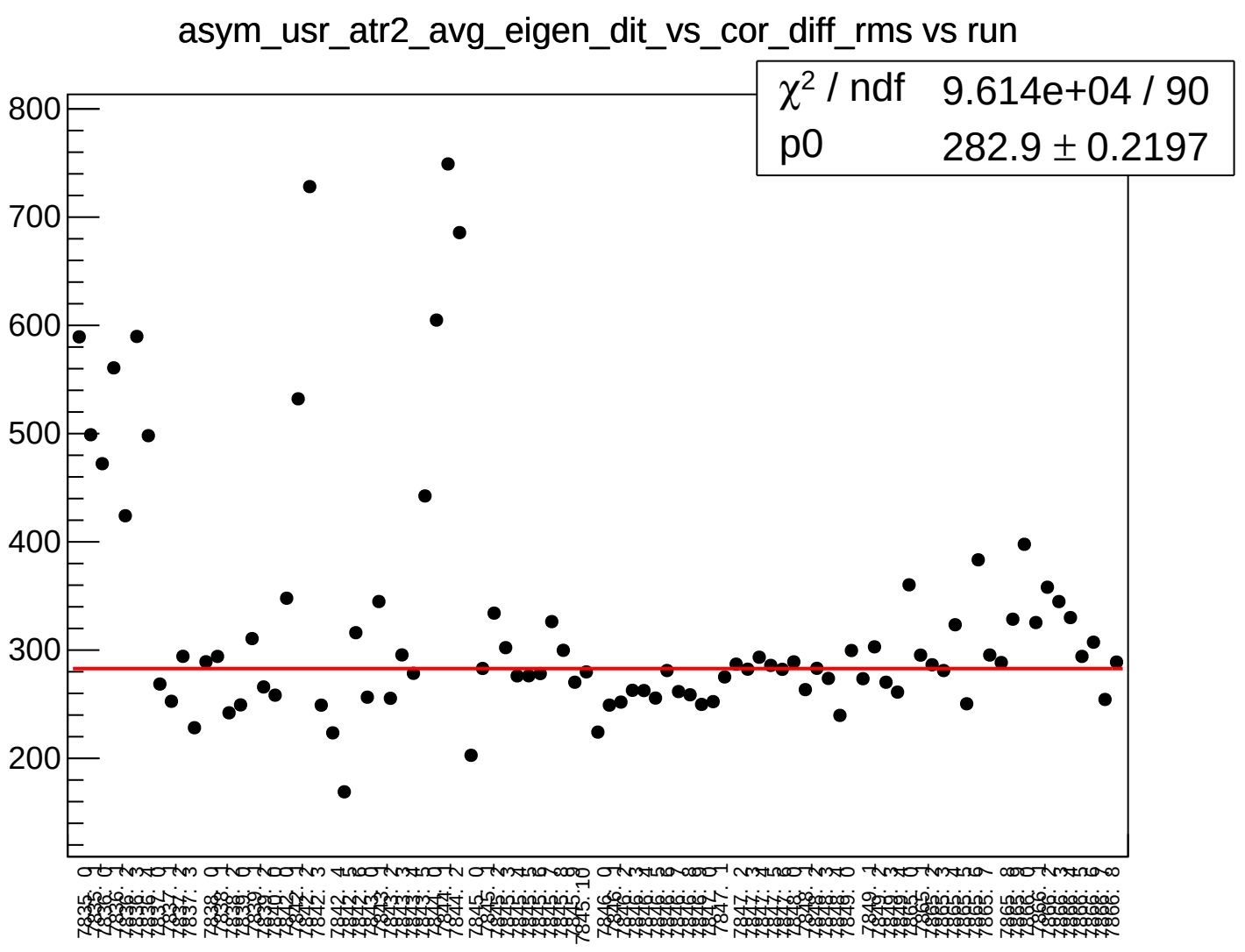

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 102.1 / 90
p0 −4.339e−05 ± 2.735e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −13.26
Std Dev 0
3
2
1
0
−1
−2

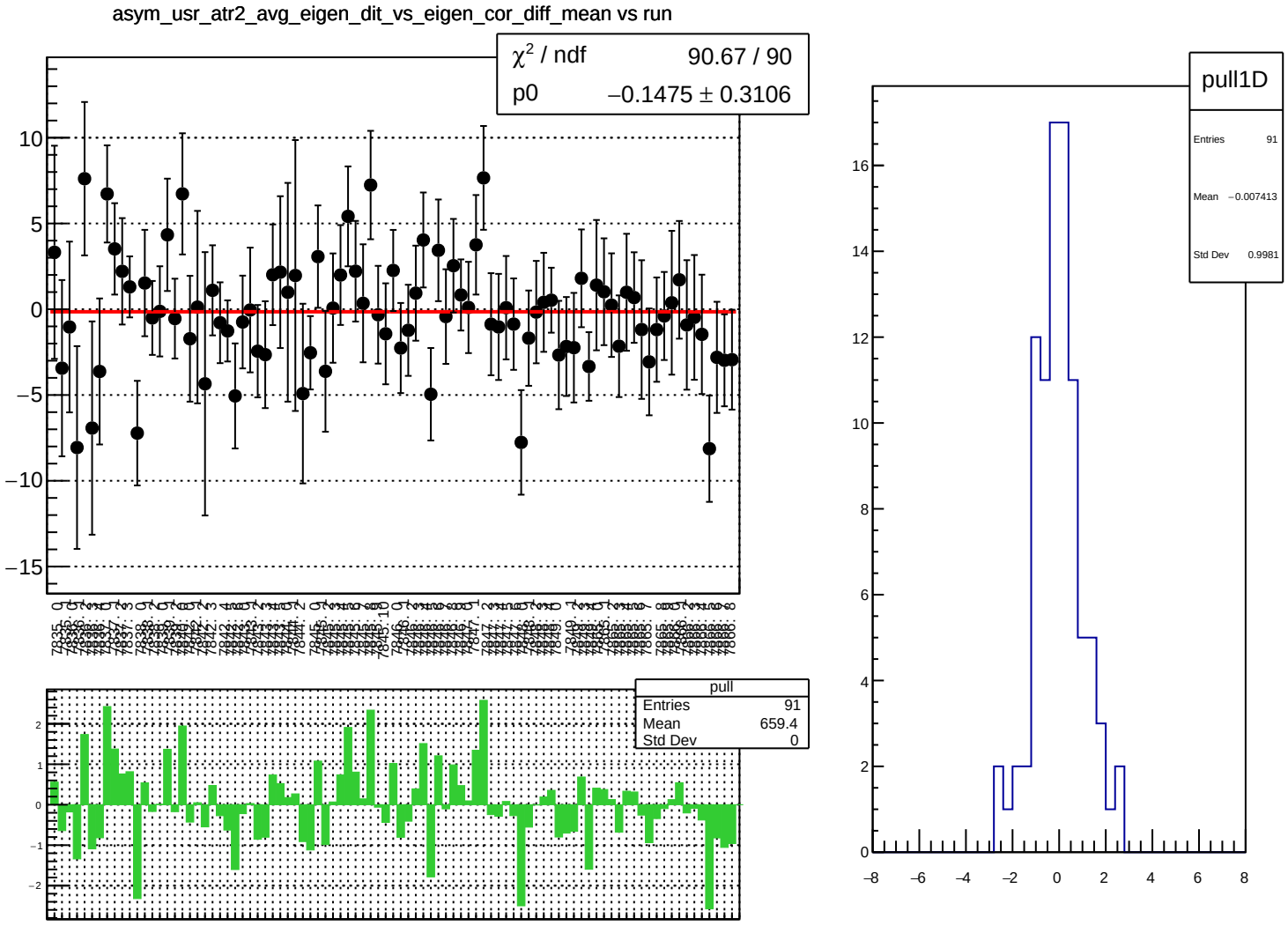

pull1D
Entries 91
Mean 0.01943
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

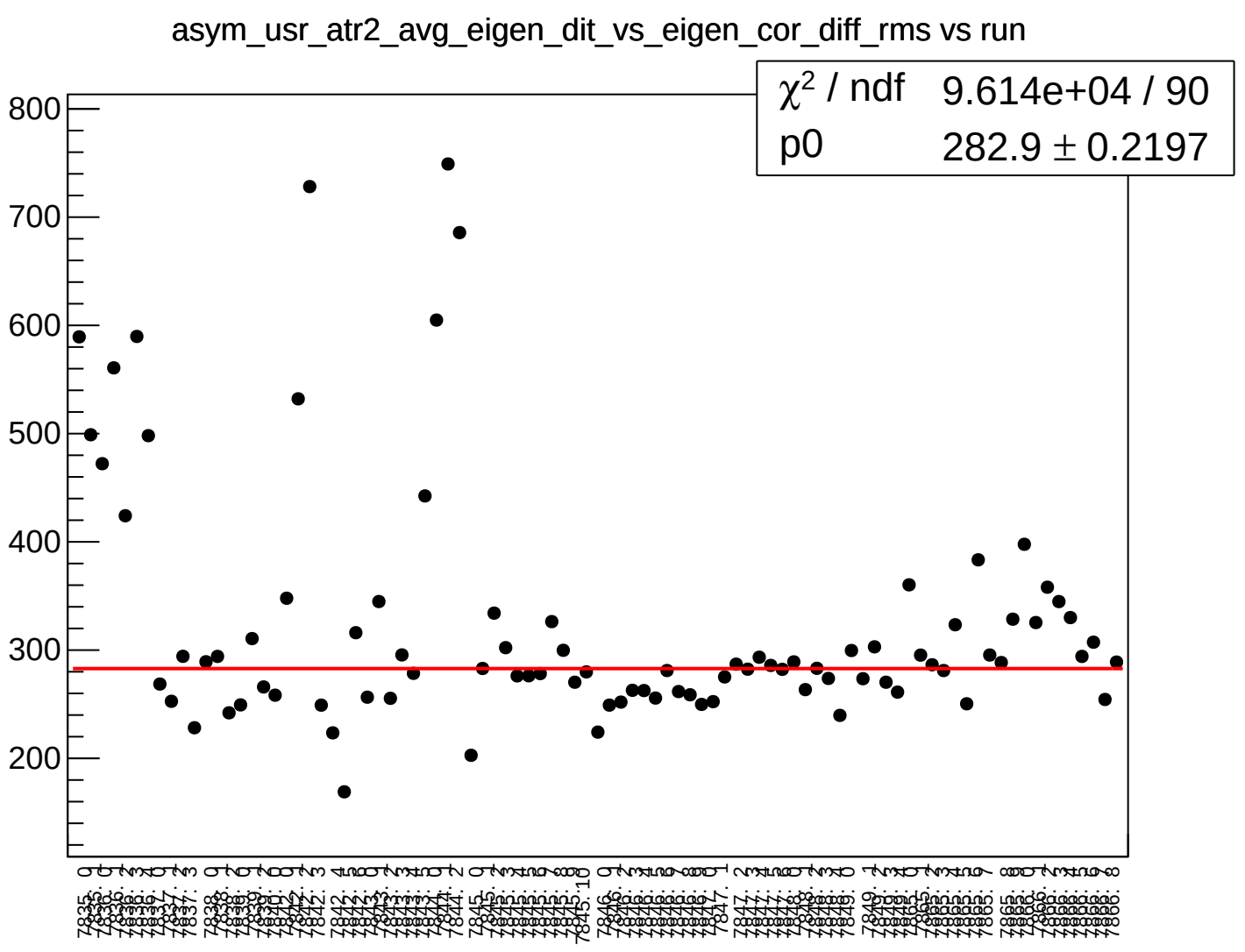

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.347e+04 / 90
p0 0.02552 ± 1.934e−05
0.04
0.035
0.03
0.025
0.02

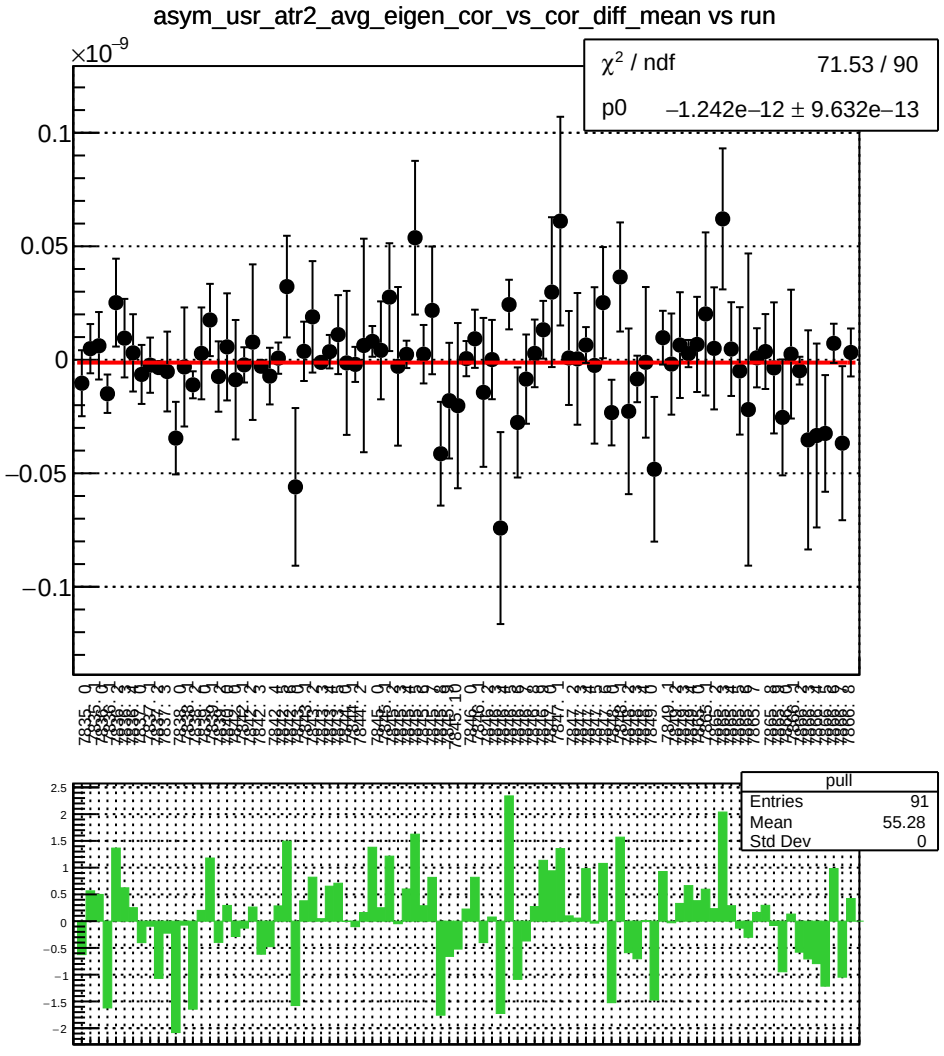

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.67 / 90
p0 −0.1475 ± 0.3106
pull
Entries 91
Mean 659.4
Std Dev 0

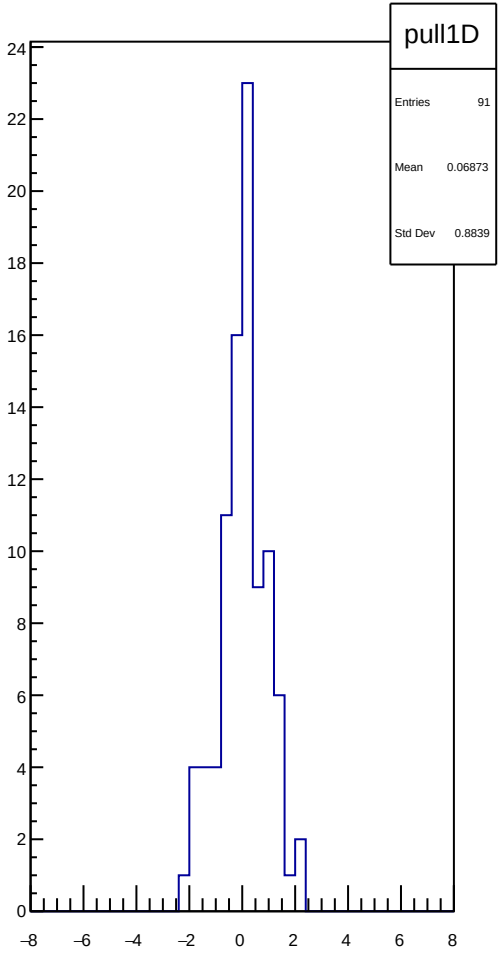

pull1D
Entries 91
Mean −0.007413
Std Dev 0.9981

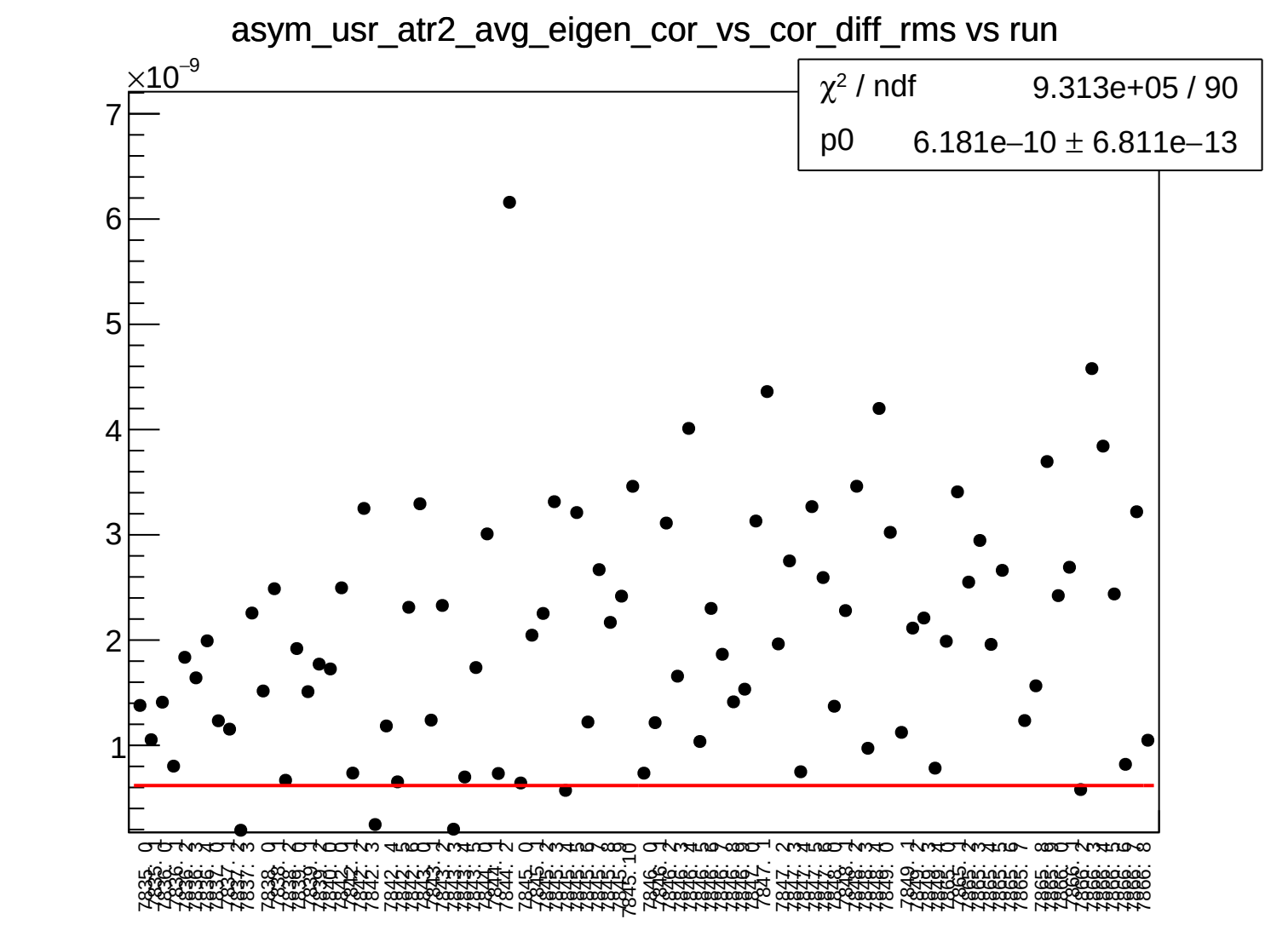

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.614e+04 / 90
p0 282.9 ± 0.2197
800
700
600
500
400
300
200

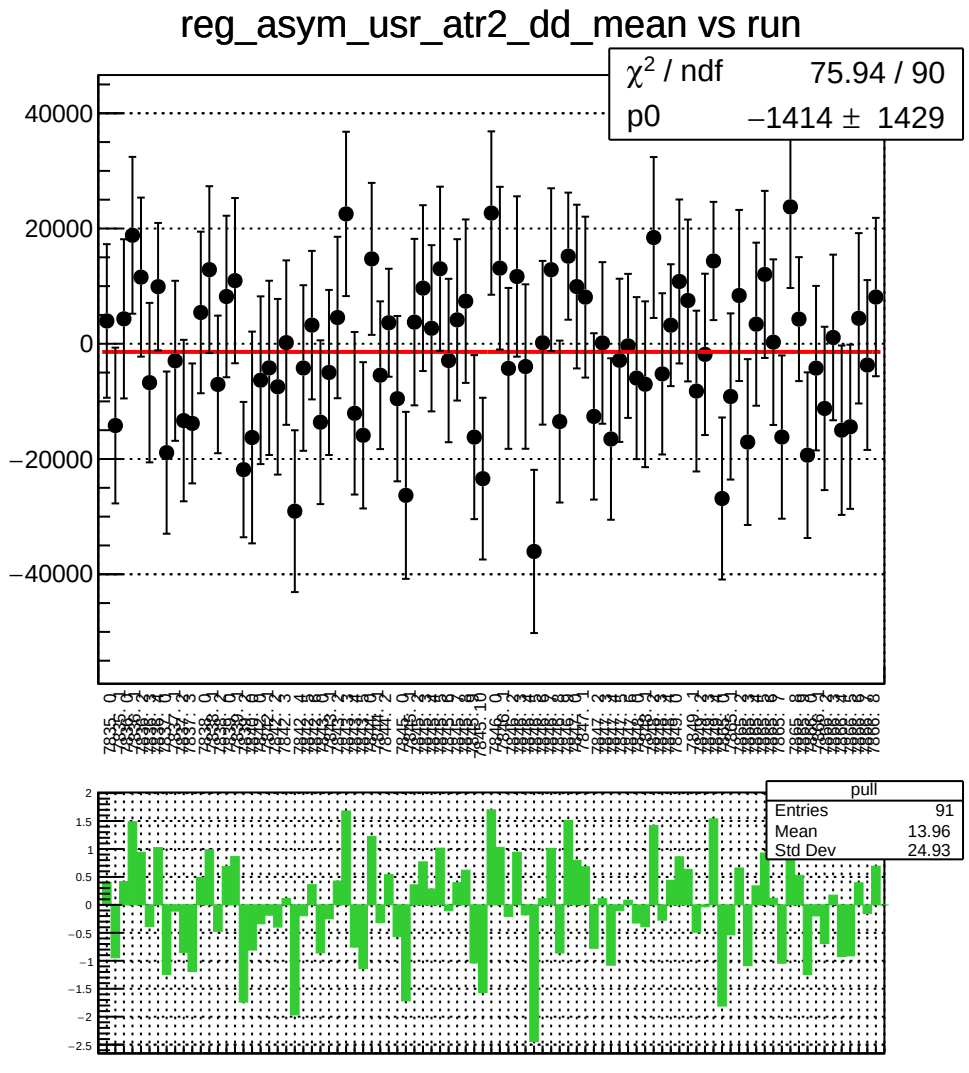

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.67 / 90
p0 −0.1475 ± 0.3106
pull
Entries 91
Mean 659.4
Std Dev 0
pull1D
Entries 91
Mean −0.007413
Std Dev 0.9981

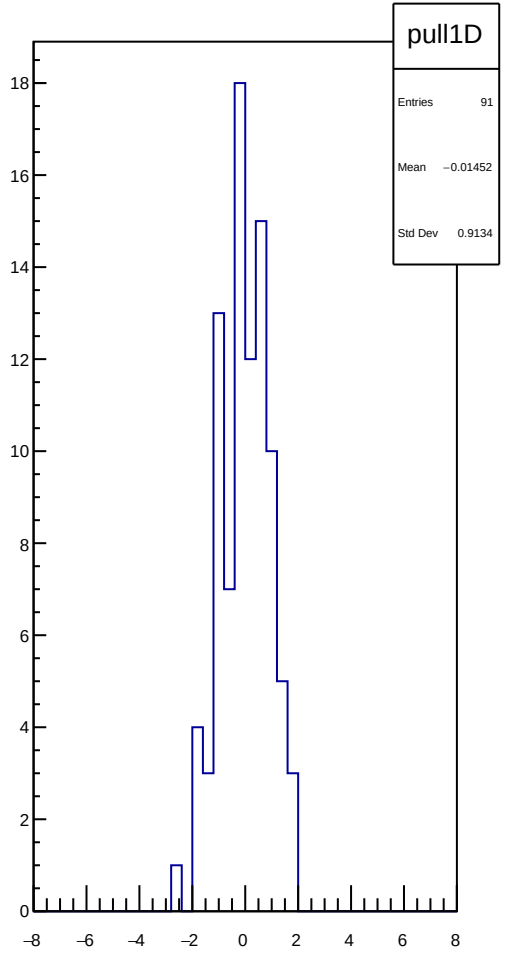

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.614e+04 / 90
p0 282.9 ± 0.2197
800
700
600
500
400
300
200

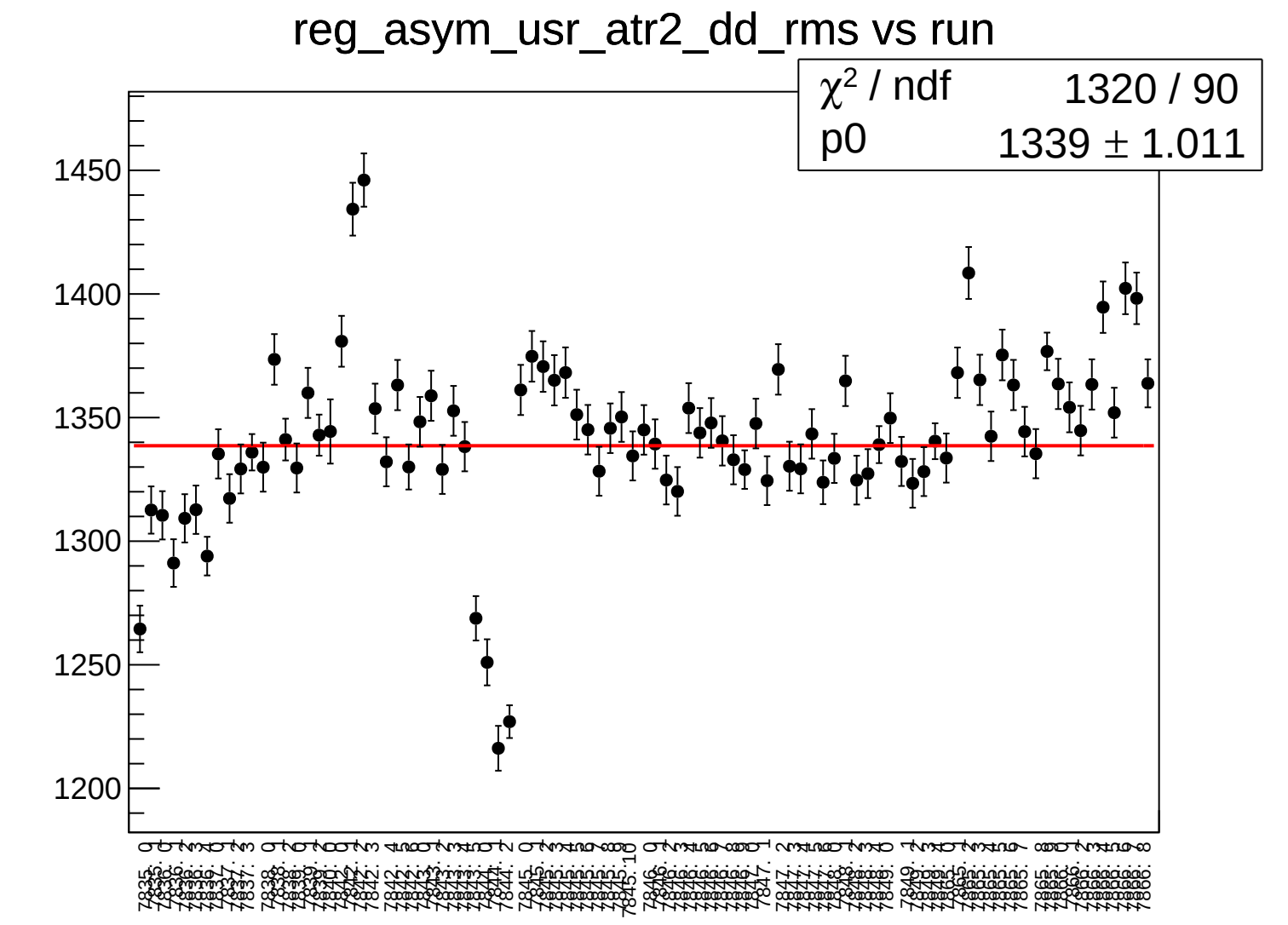

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 71.53 / 90
p0 −1.242e−12 ± 9.632e−13
pull
Entries 91
Mean 55.28
Std Dev 0

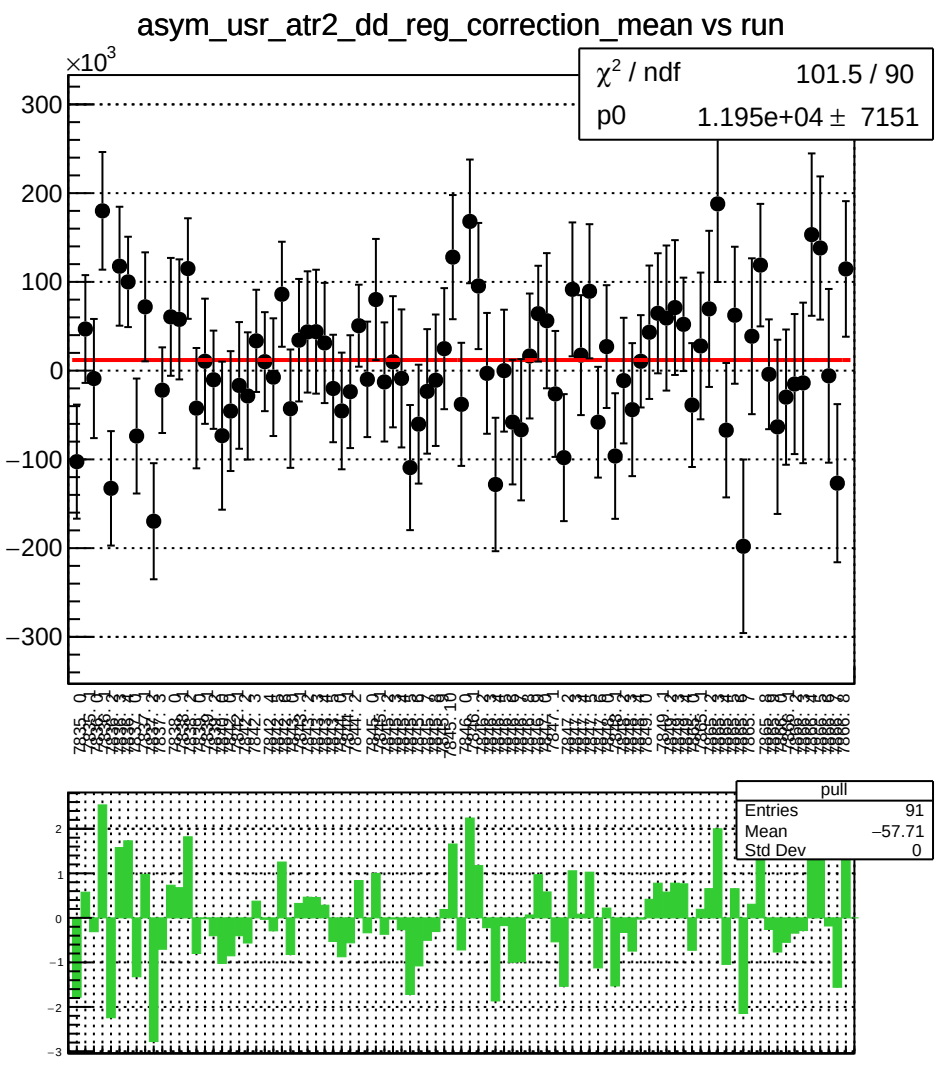

pull1D
Entries 91
Mean 0.06873
Std Dev 0.8839

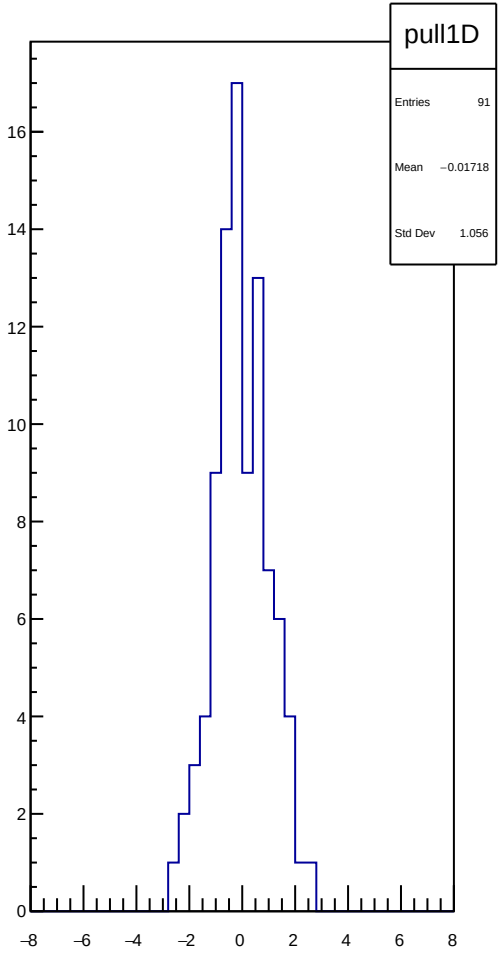

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.313e+05 / 90
p0 6.181e−10 ± 6.811e−13
7
6
5
4
3
2
1

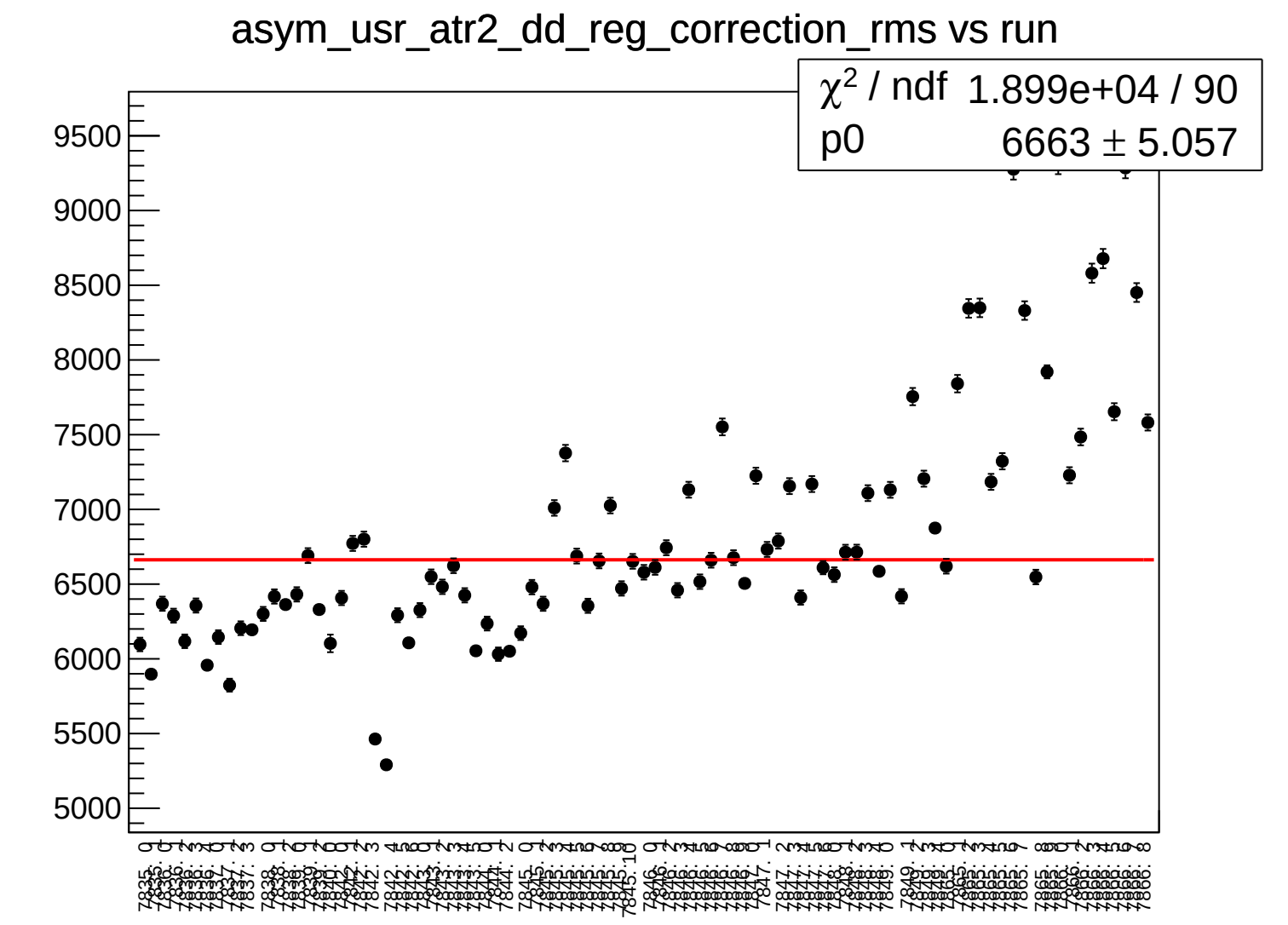

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.94 / 90
p0 −1414 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 13.96
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

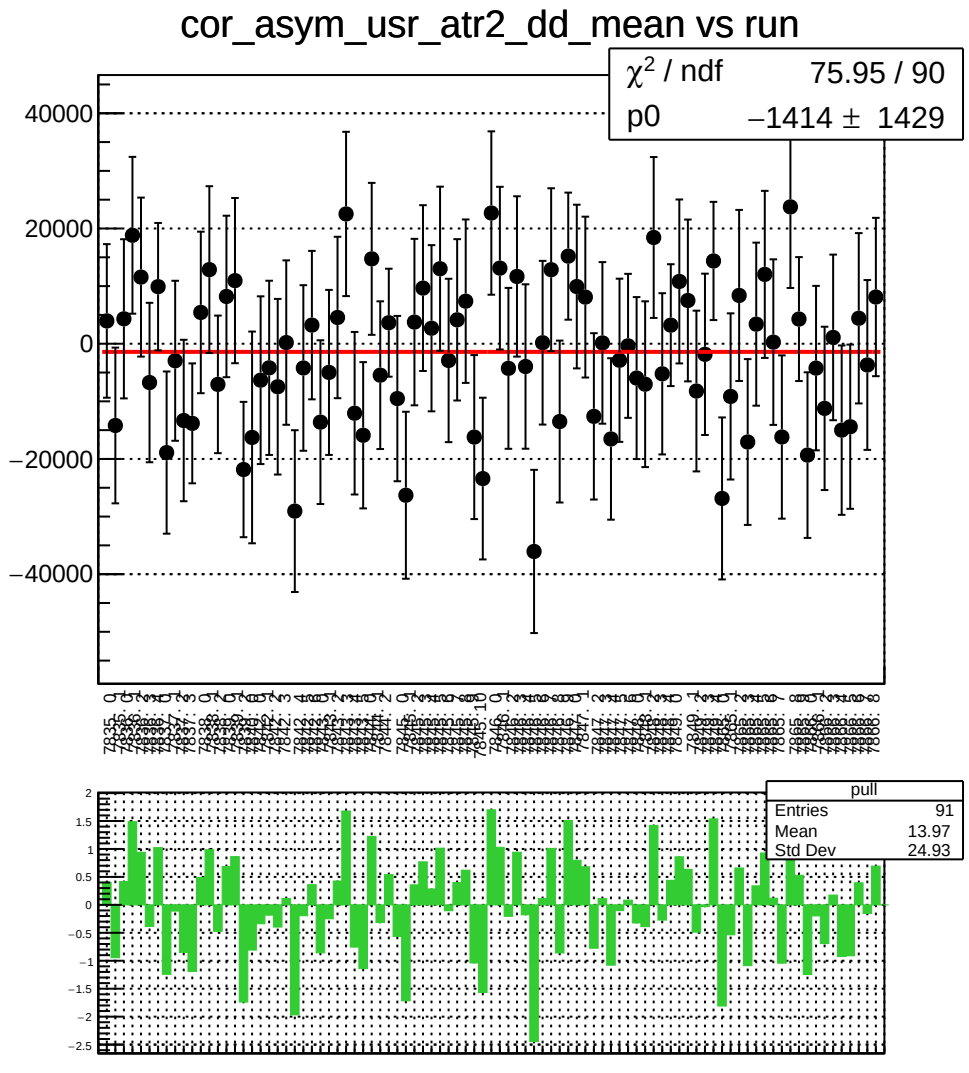

pull1D
Entries 91
Mean −0.01452
Std Dev 0.9134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

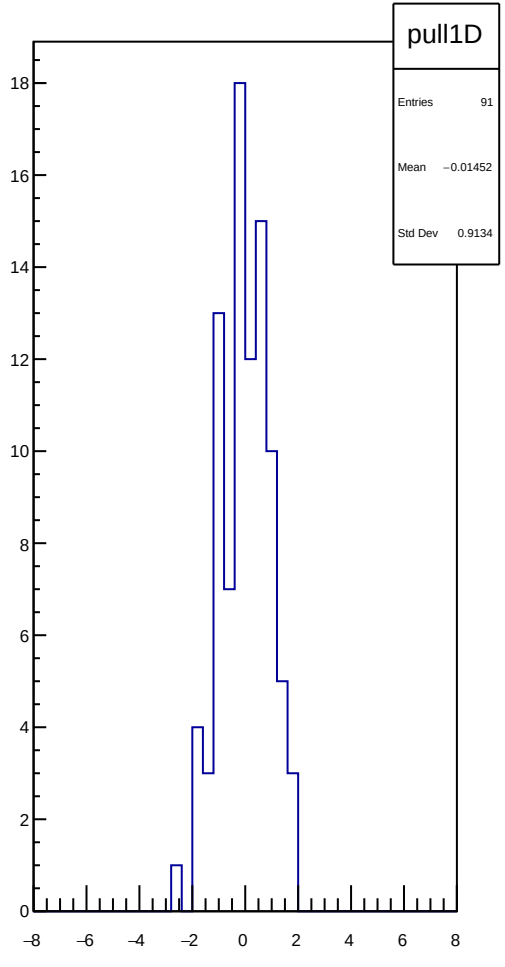

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1320 / 90
p0 1339 ± 1.011
1450
1400
1350
1300
1250
1200

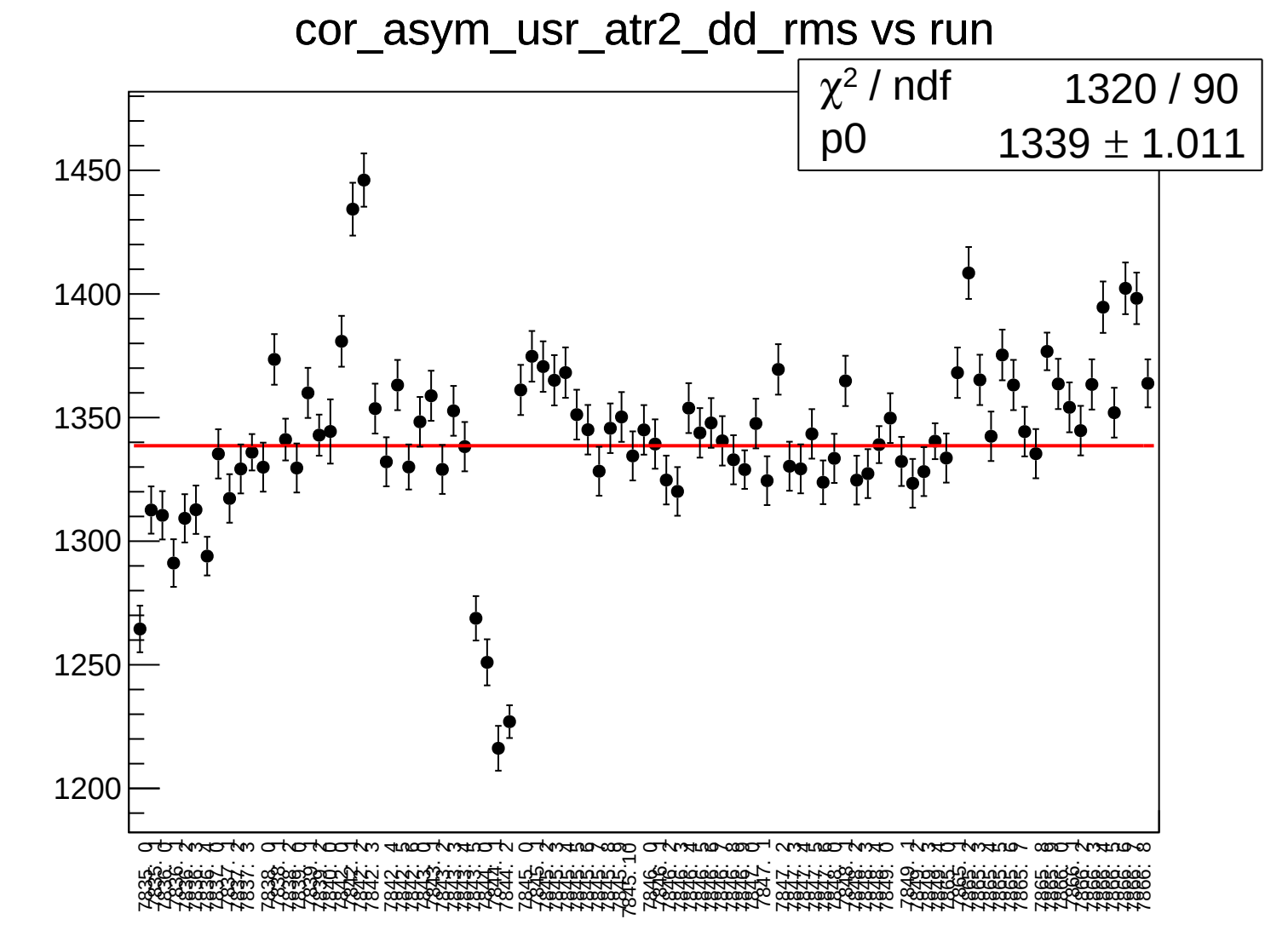

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 101.5 / 90
p0 1.195e+04 ± 7151
pull
Entries 91
Mean −57.71
Std Dev 0

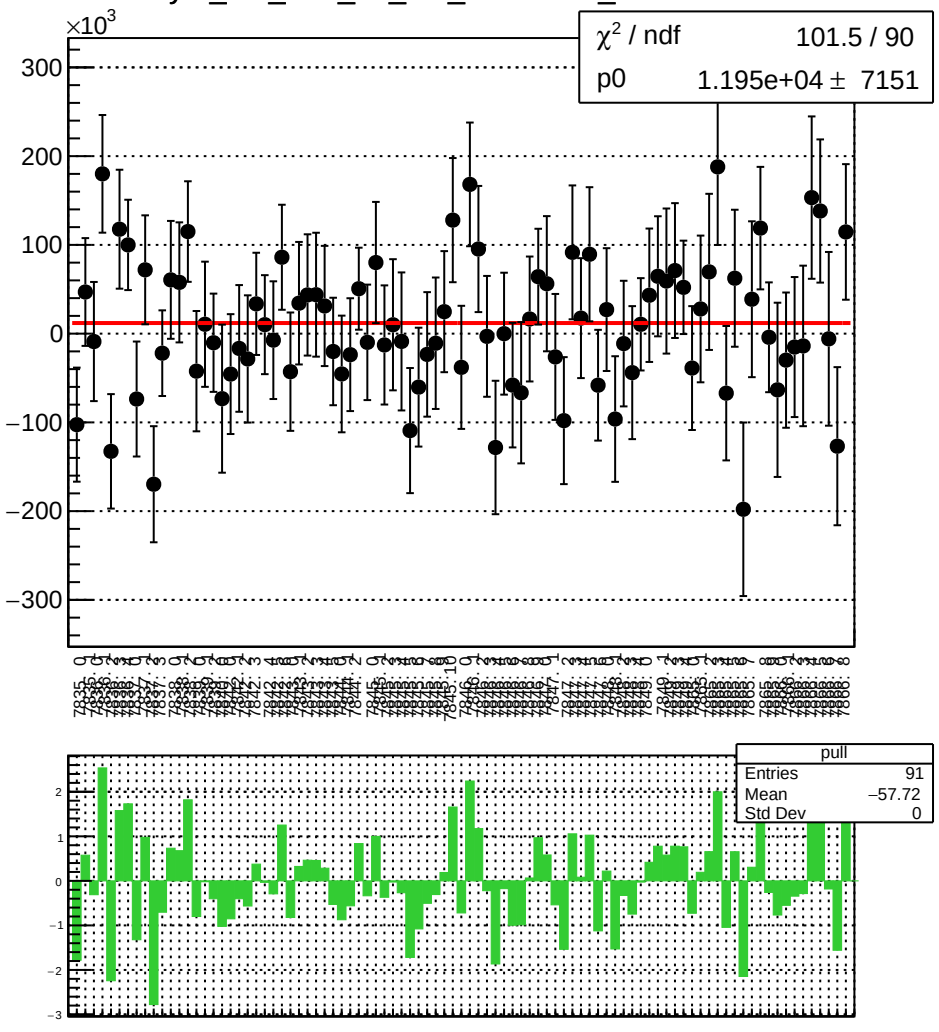

pull1D
Entries 91
Mean −0.01718
Std Dev 1.056

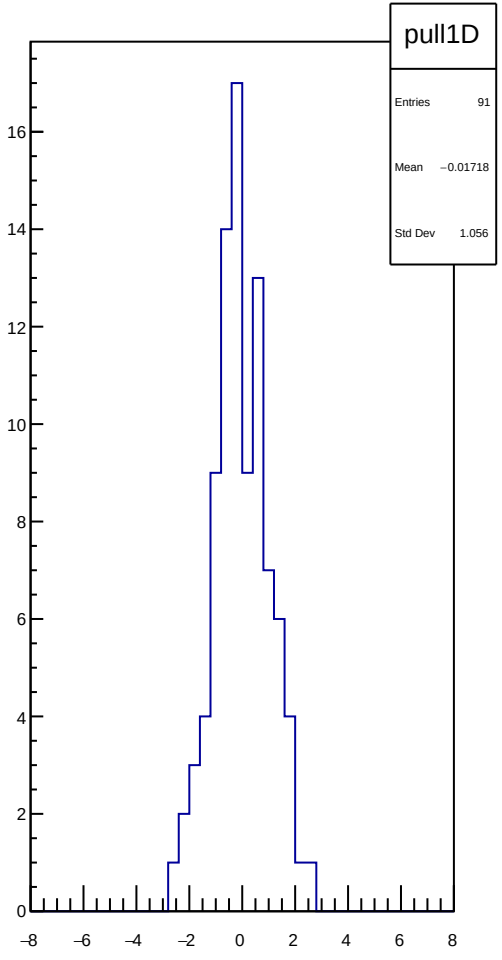

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 1.899e+04 / 90
p0 6663 ± 5.057
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

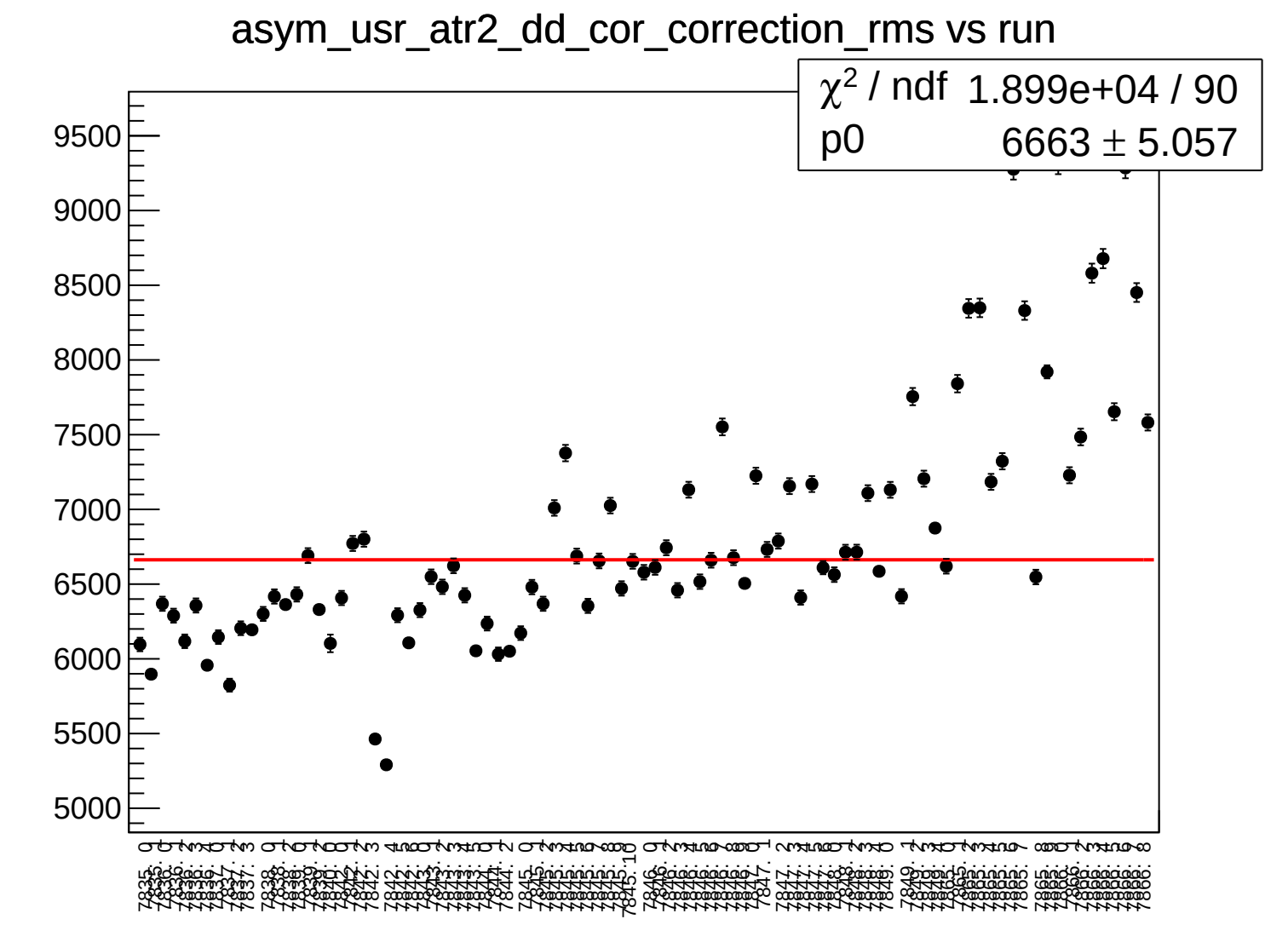

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.95 / 90
p0 −1414 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 13.97
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

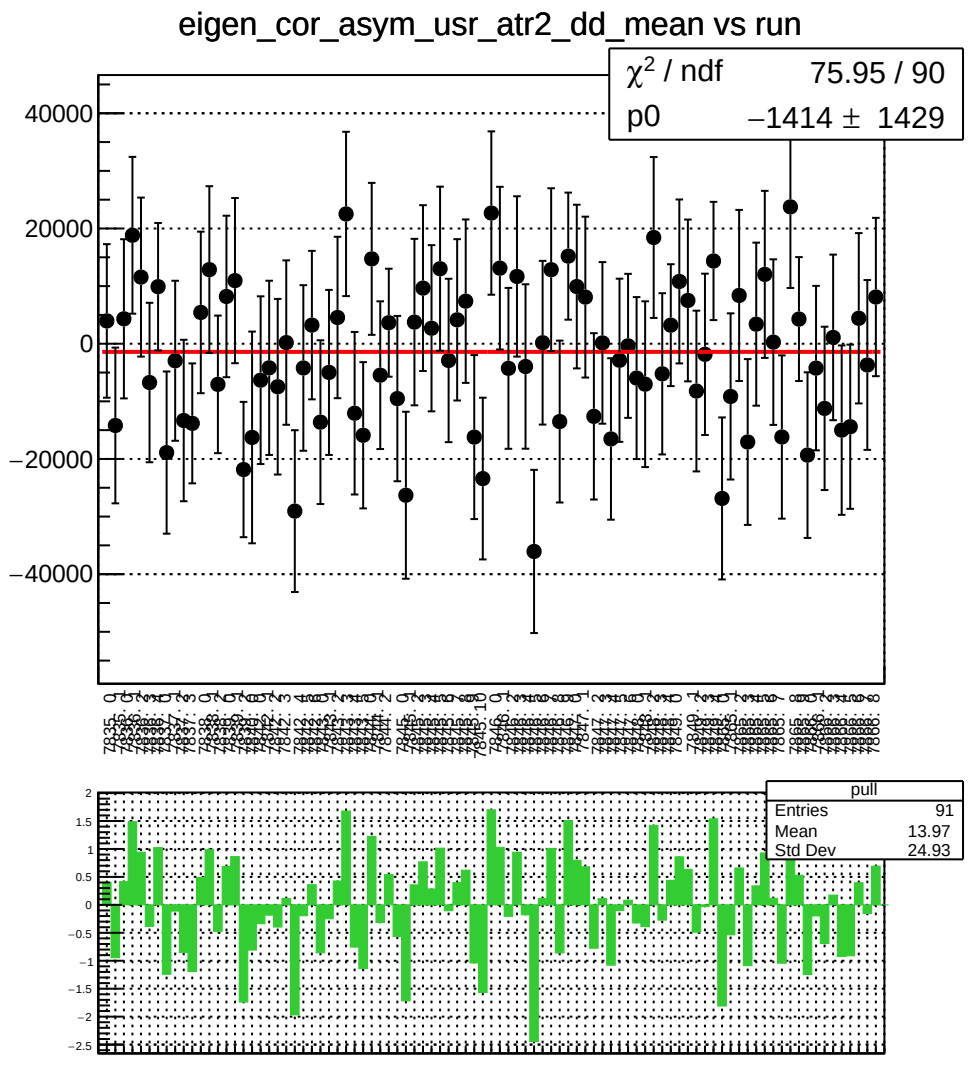

pull1D
Entries 91
Mean −0.01452
Std Dev 0.9134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

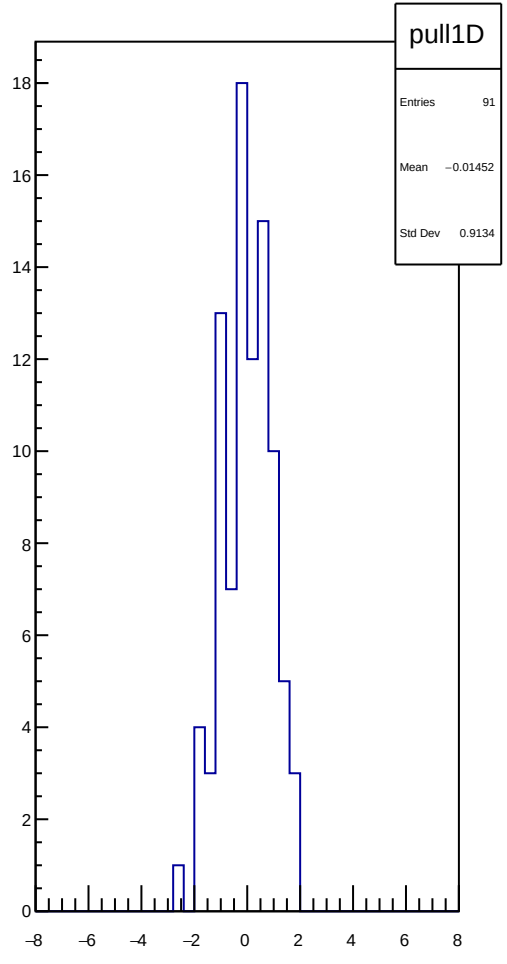

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1320 / 90
p0 1339 ± 1.011
1450
1400
1350
1300
1250
1200

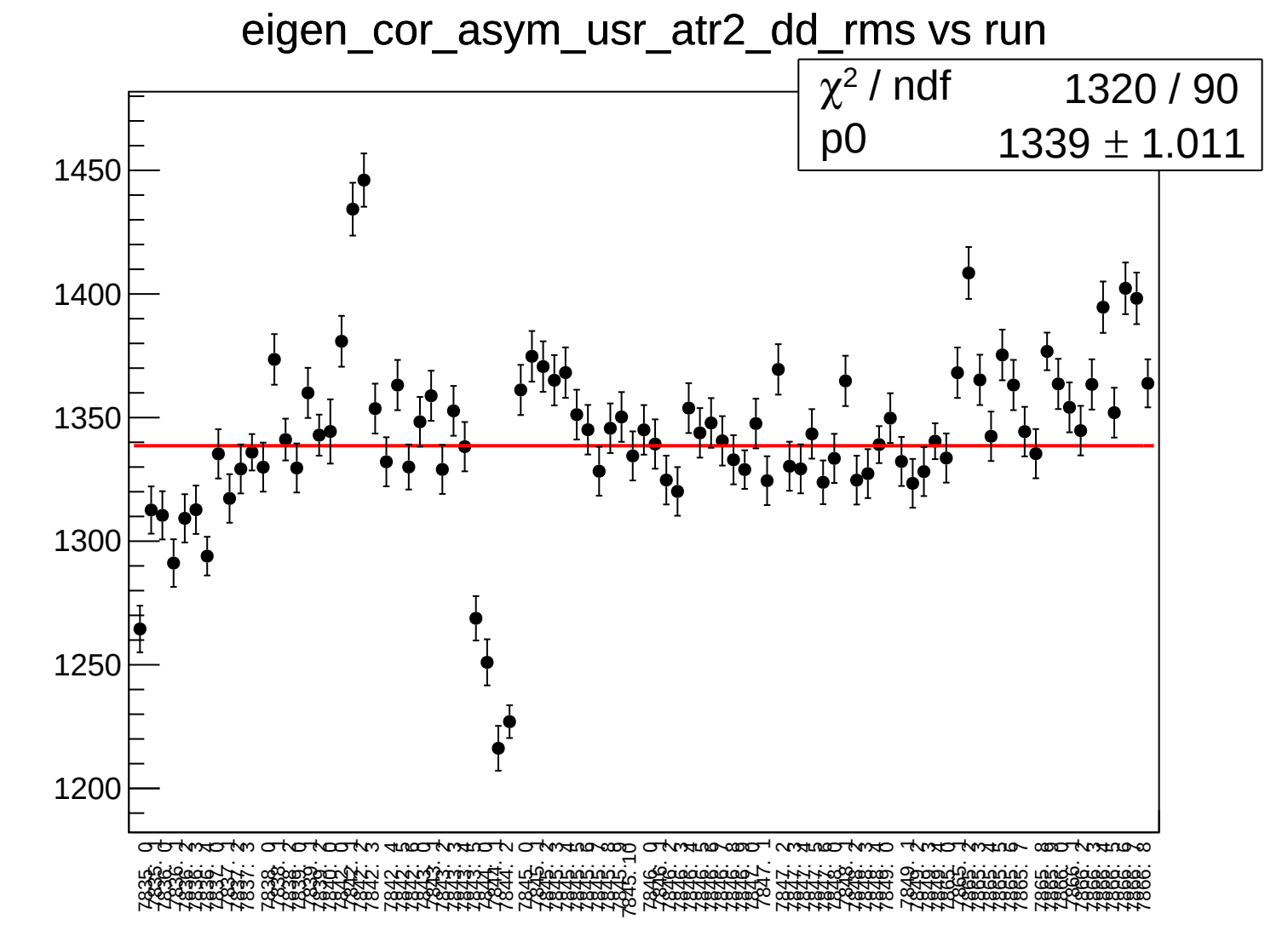

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101.5 / 90
p0 1.195e+04 ± 7151
pull
Entries 91
Mean −57.72
Std Dev 0

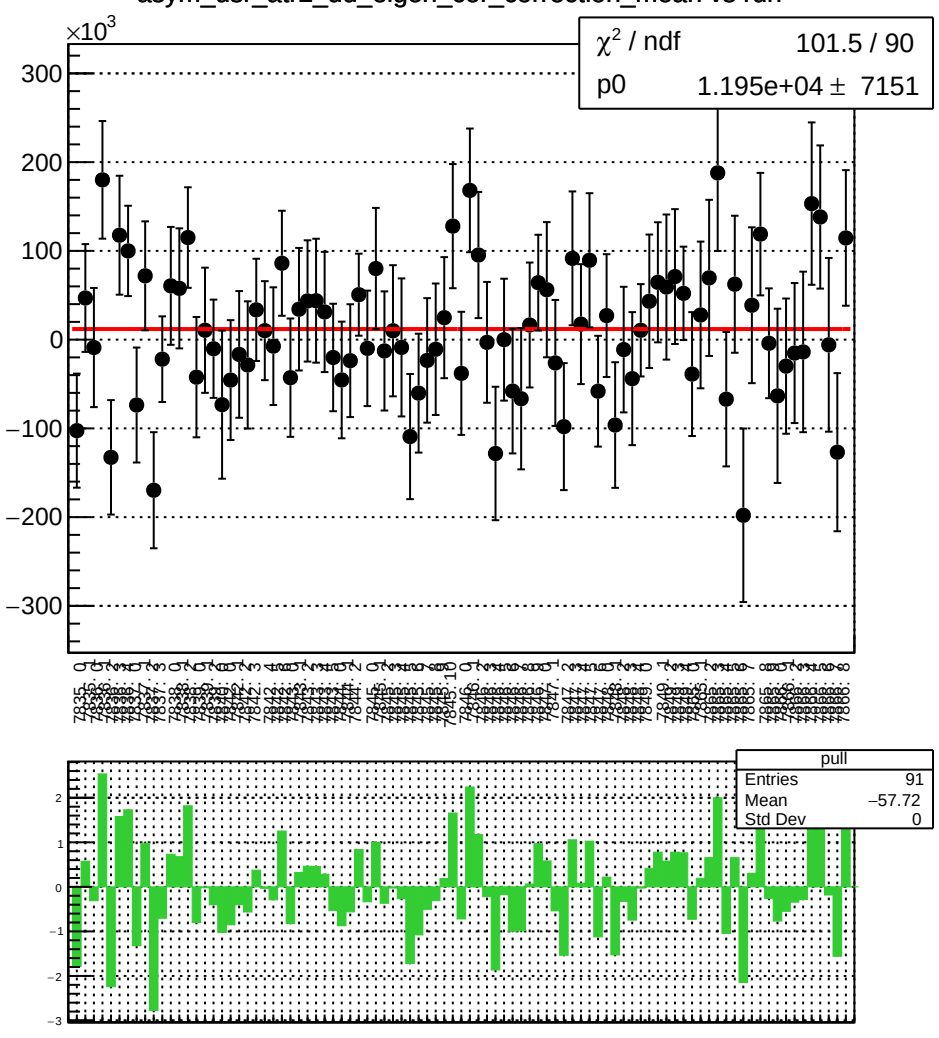

pull1D
Entries 91
Mean −0.01718
Std Dev 1.056

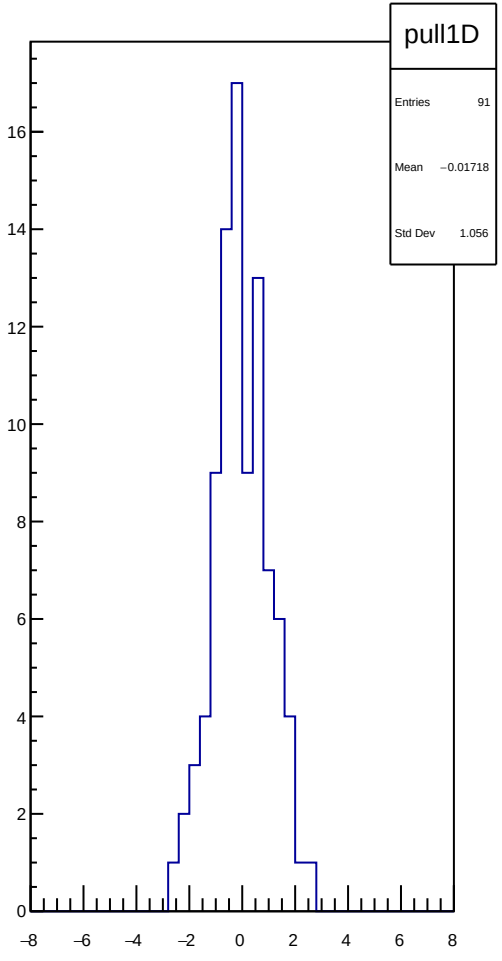

asym_usr_atr2_dd_cor_correction_rms vs run
χ^2 / ndf 1.899e+04 / 90
p0 6663 ± 5.057
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

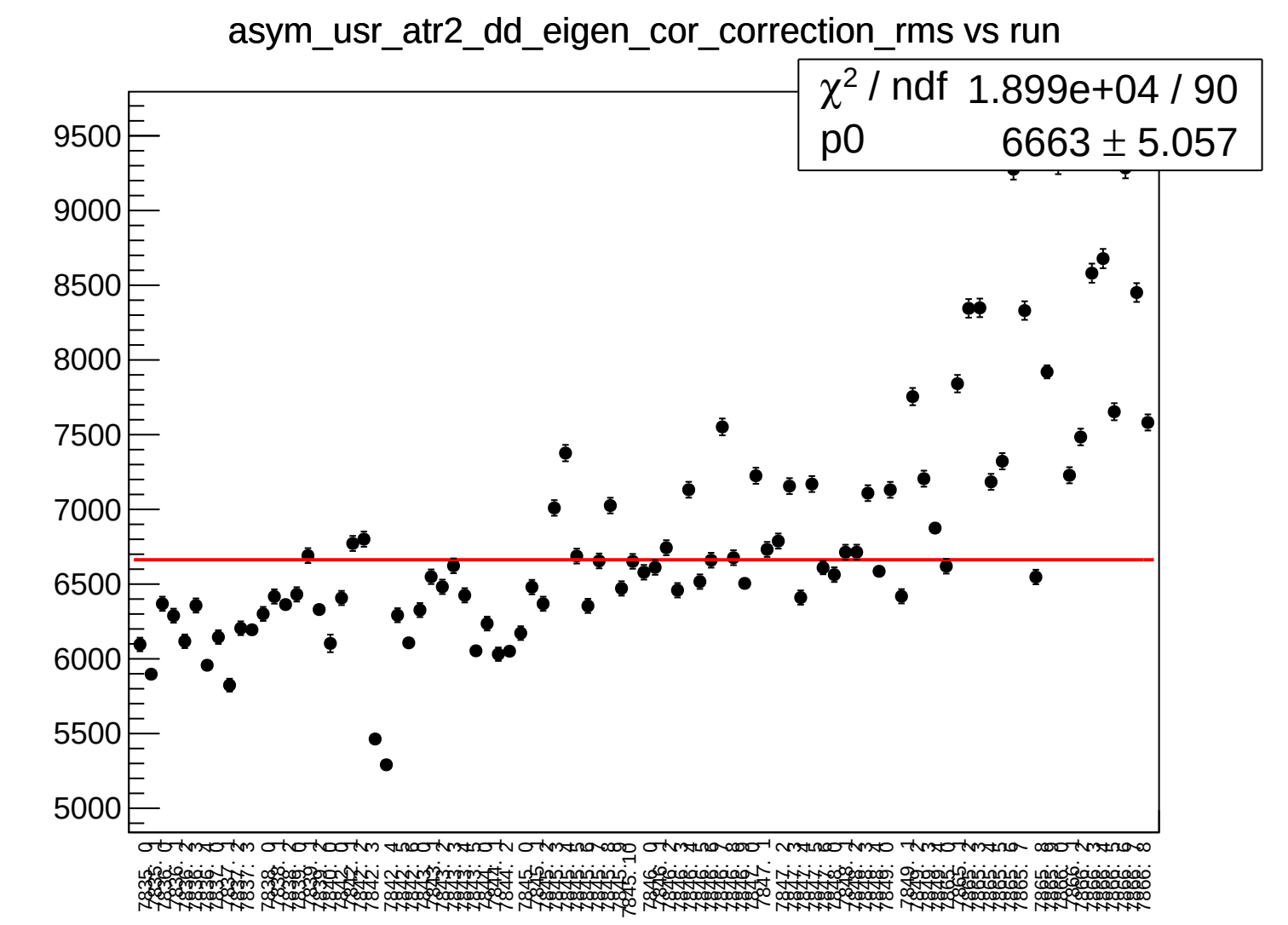

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.95 / 90
p0 −1414 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 13.97
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

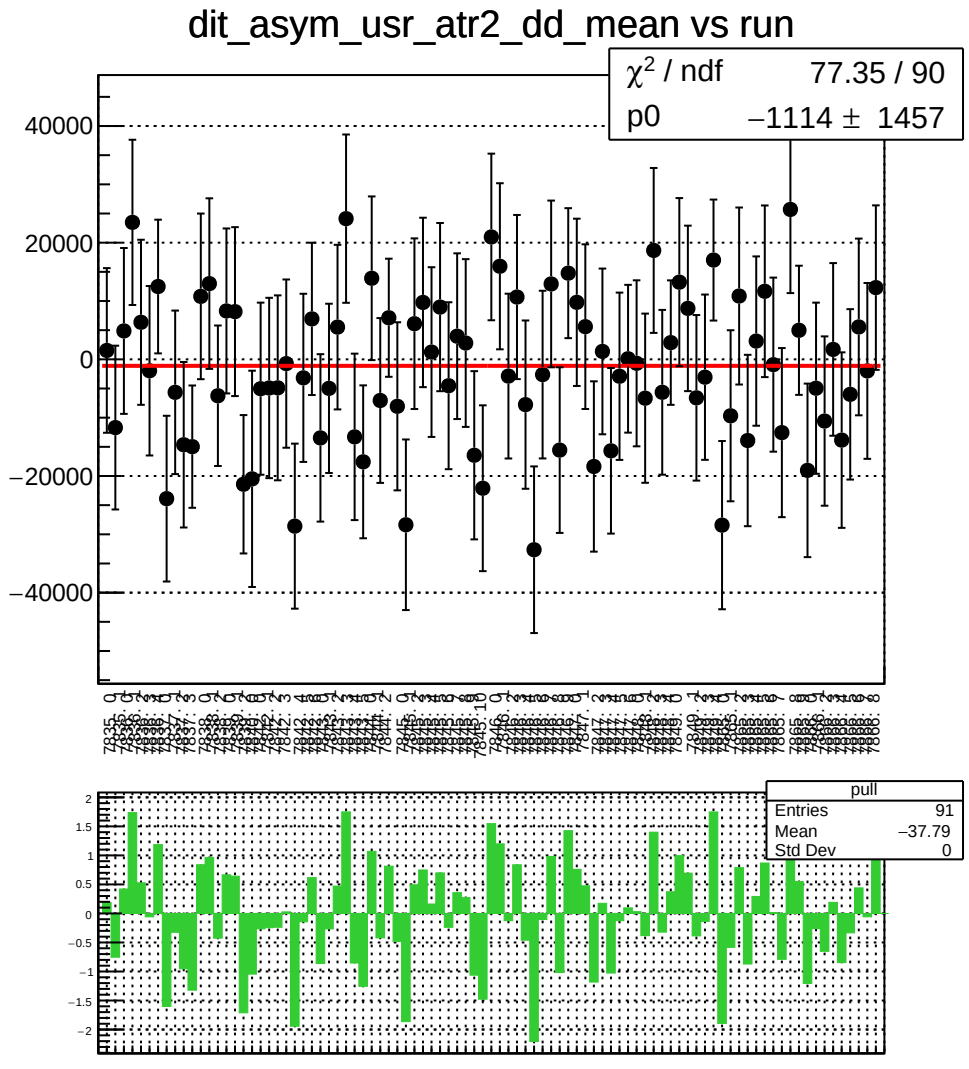

pull1D
Entries 91
Mean −0.01452
Std Dev 0.9134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

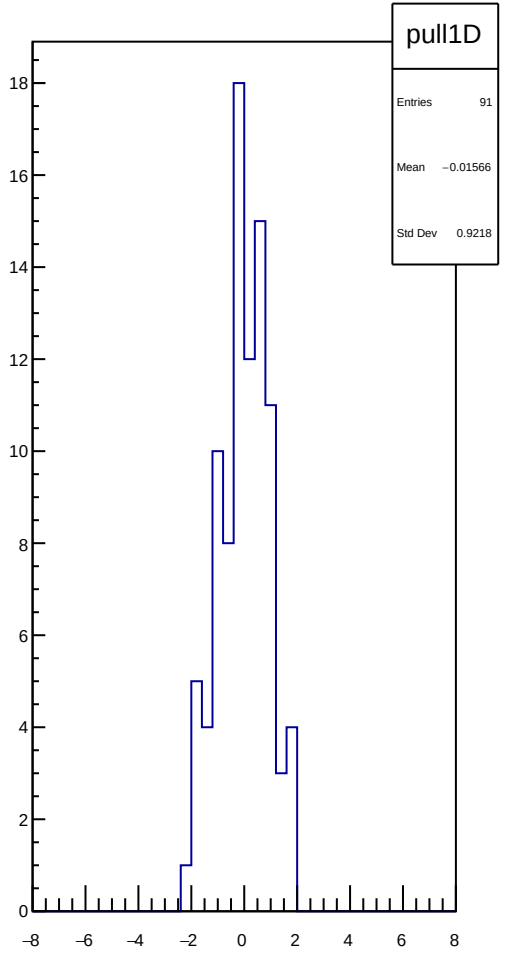

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1320 / 90
p0 1339 ± 1.011
1450
1400
1350
1300
1250
1200

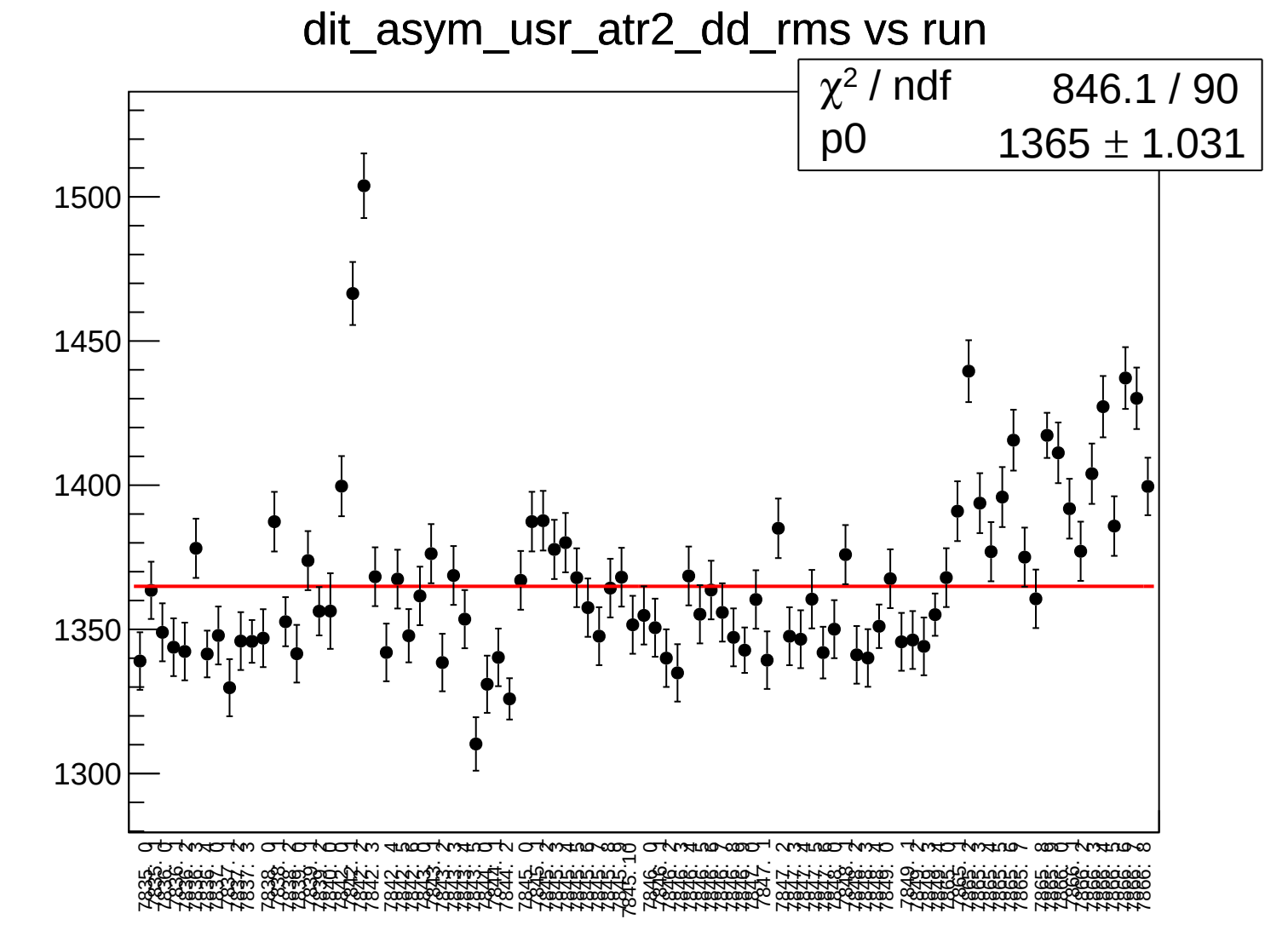

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.5 / 90
p0 1.195e+04 ± 7151
pull
Entries 91
Mean −57.72
Std Dev 0

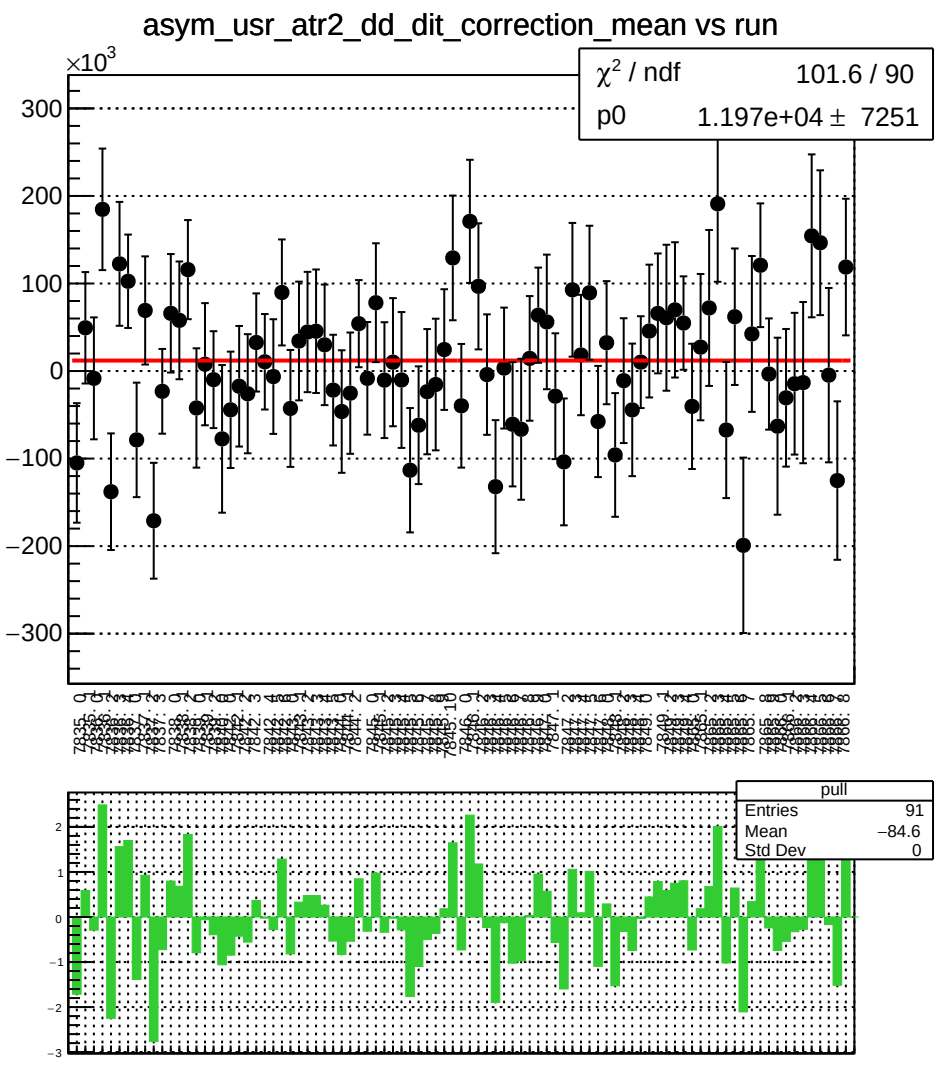

pull1D
Entries 91
Mean −0.01718
Std Dev 1.056

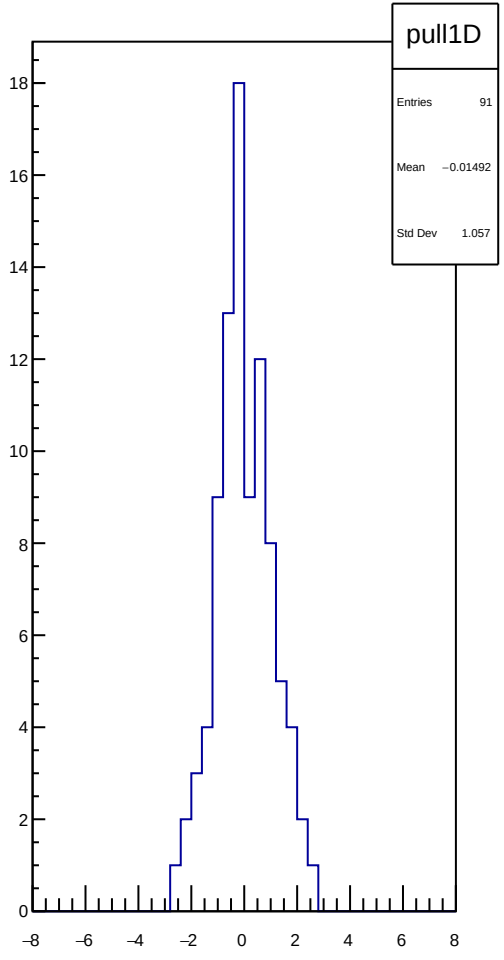

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.899e+04 / 90
p0 6663 ± 5.057
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

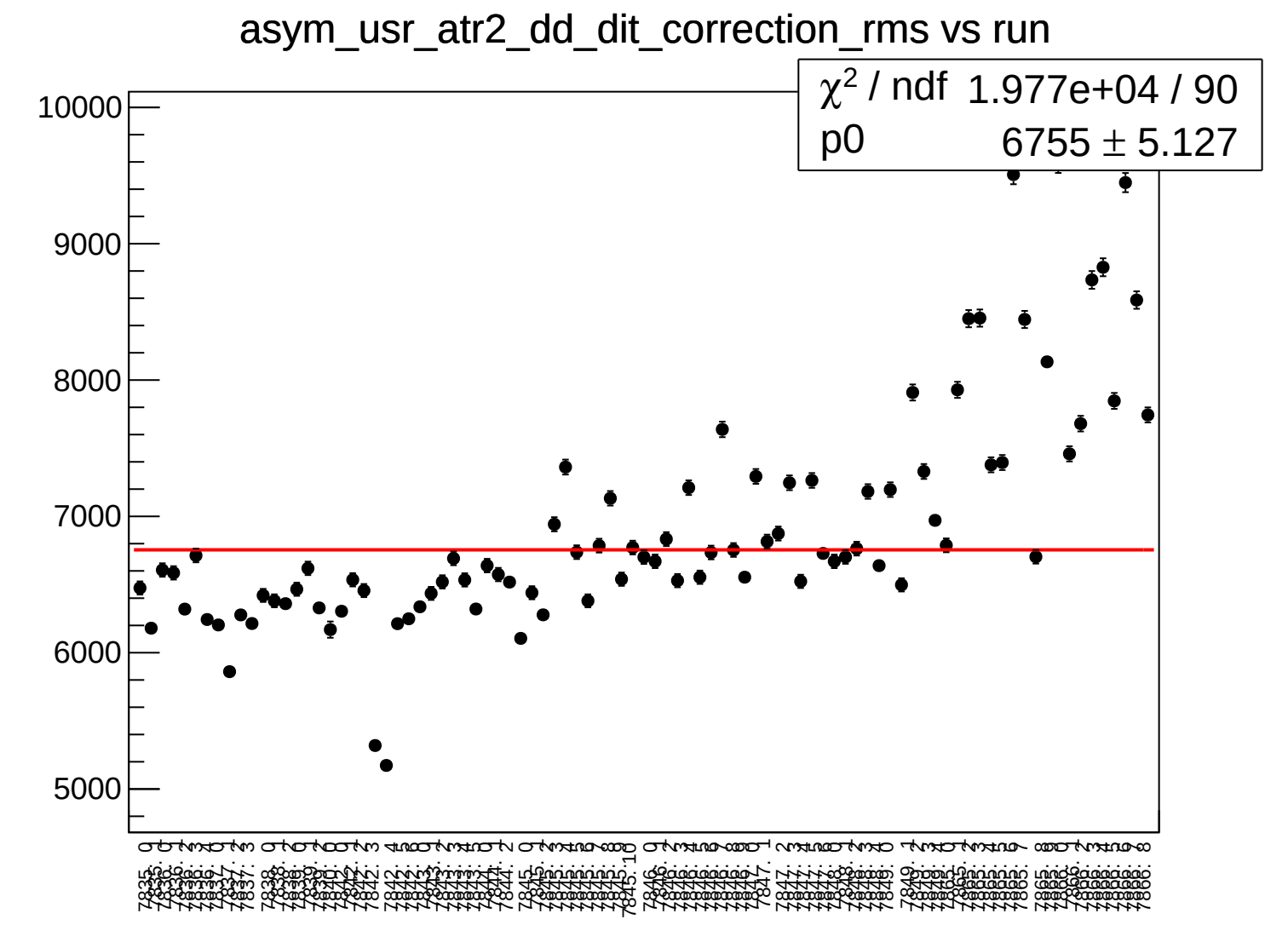

dit_asym_usr_atr2_dd_mean vs run
χ^2 / ndf 77.35 / 90
p0 −1114 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −37.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

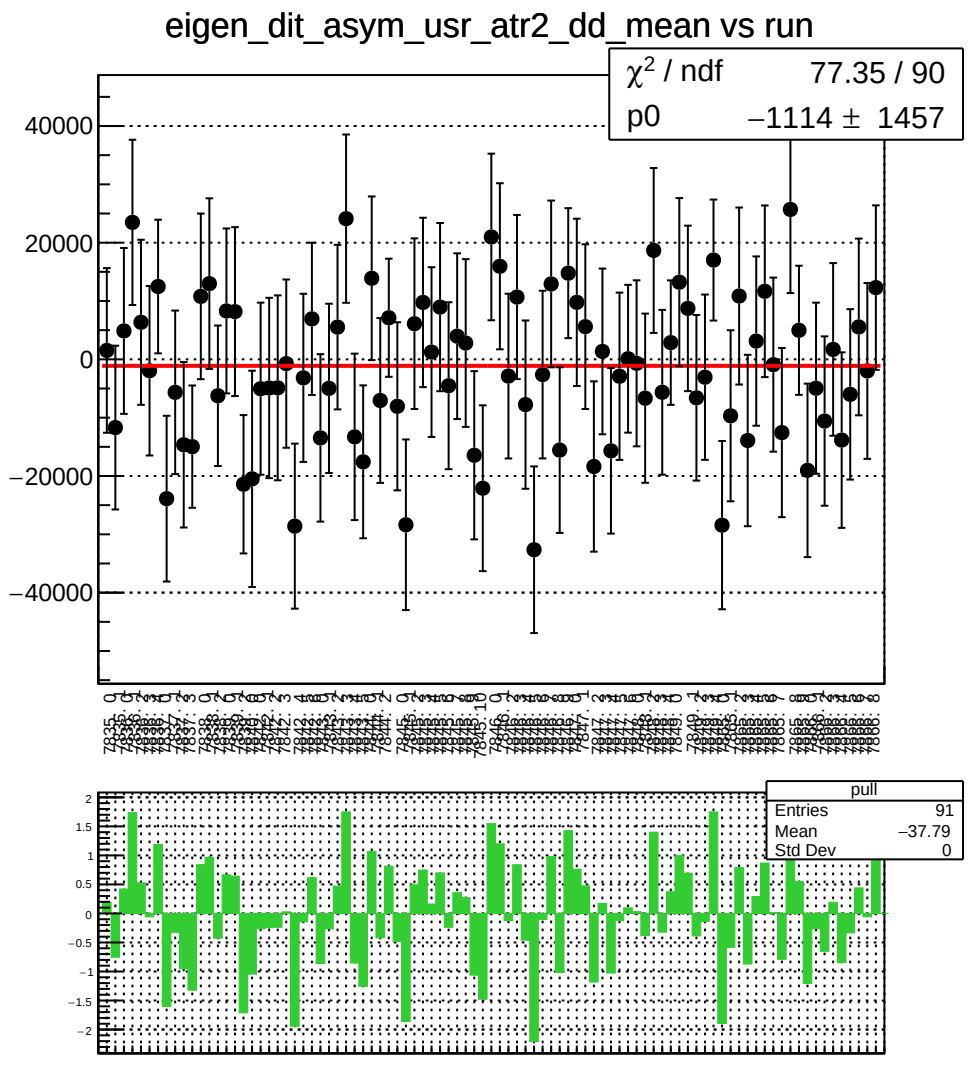

pull1D
Entries 91
Mean −0.01566
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

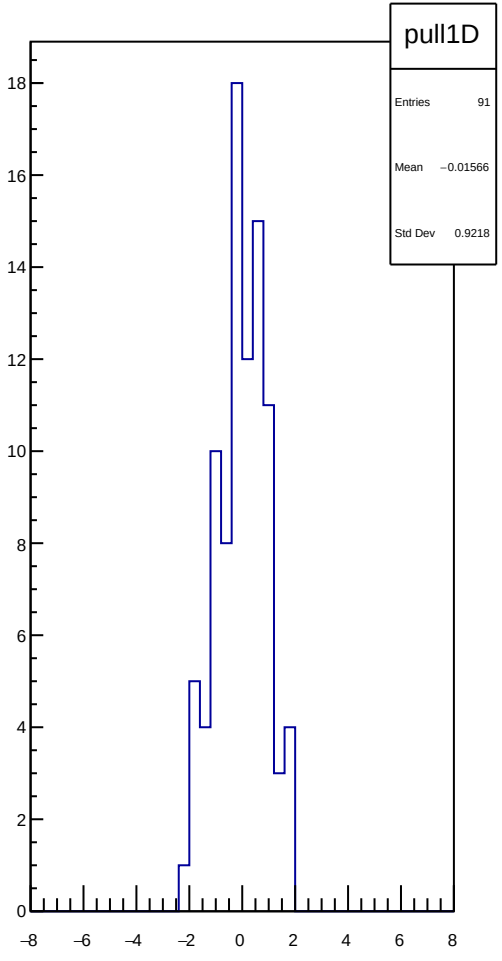

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 846.1 / 90
p0 1365 ± 1.031
1500
1450
1400
1350
1300

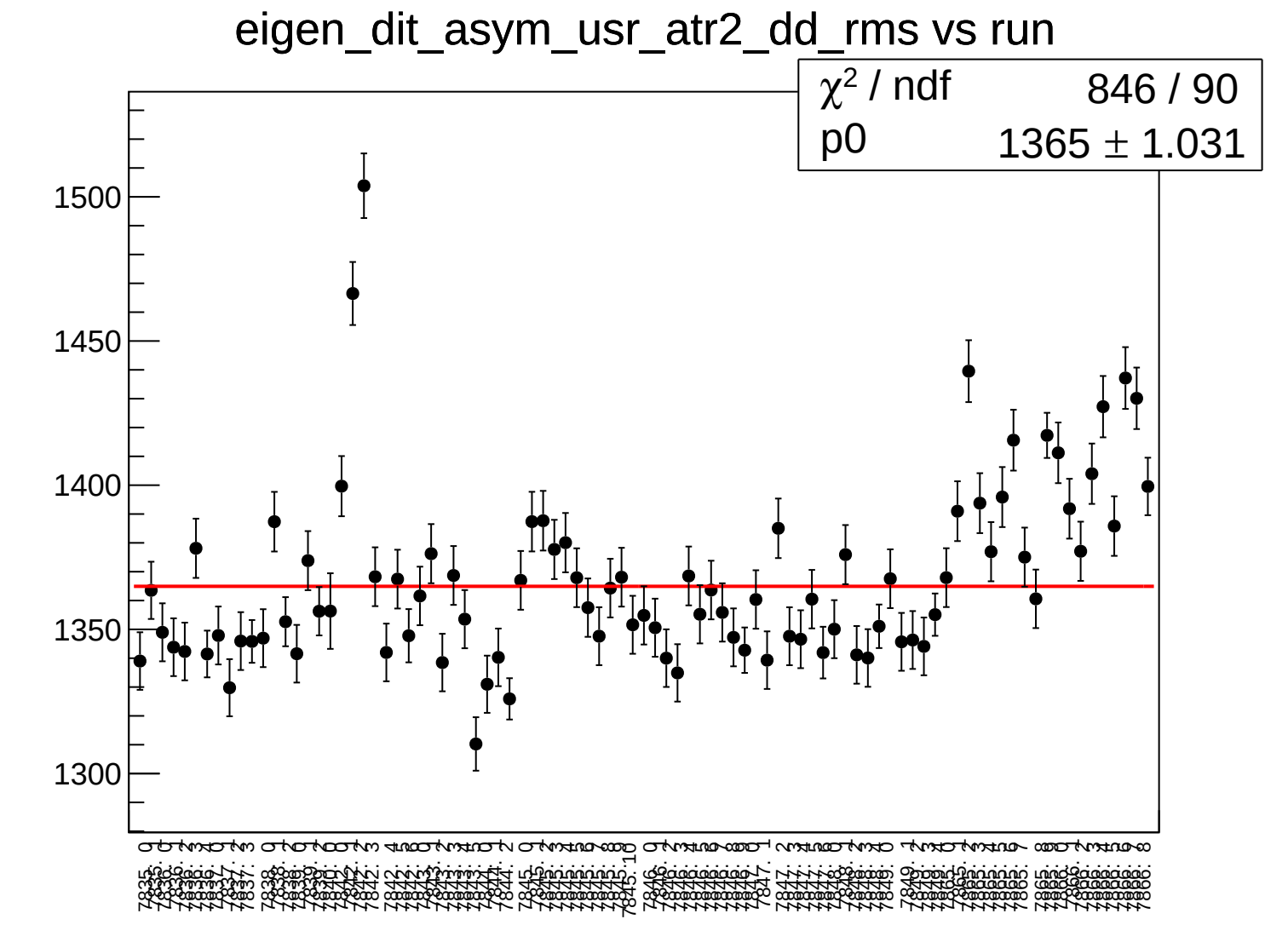

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 101.6 / 90
p0 1.197e+04 ± 7251
pull
Entries 91
Mean −84.6
Std Dev 0

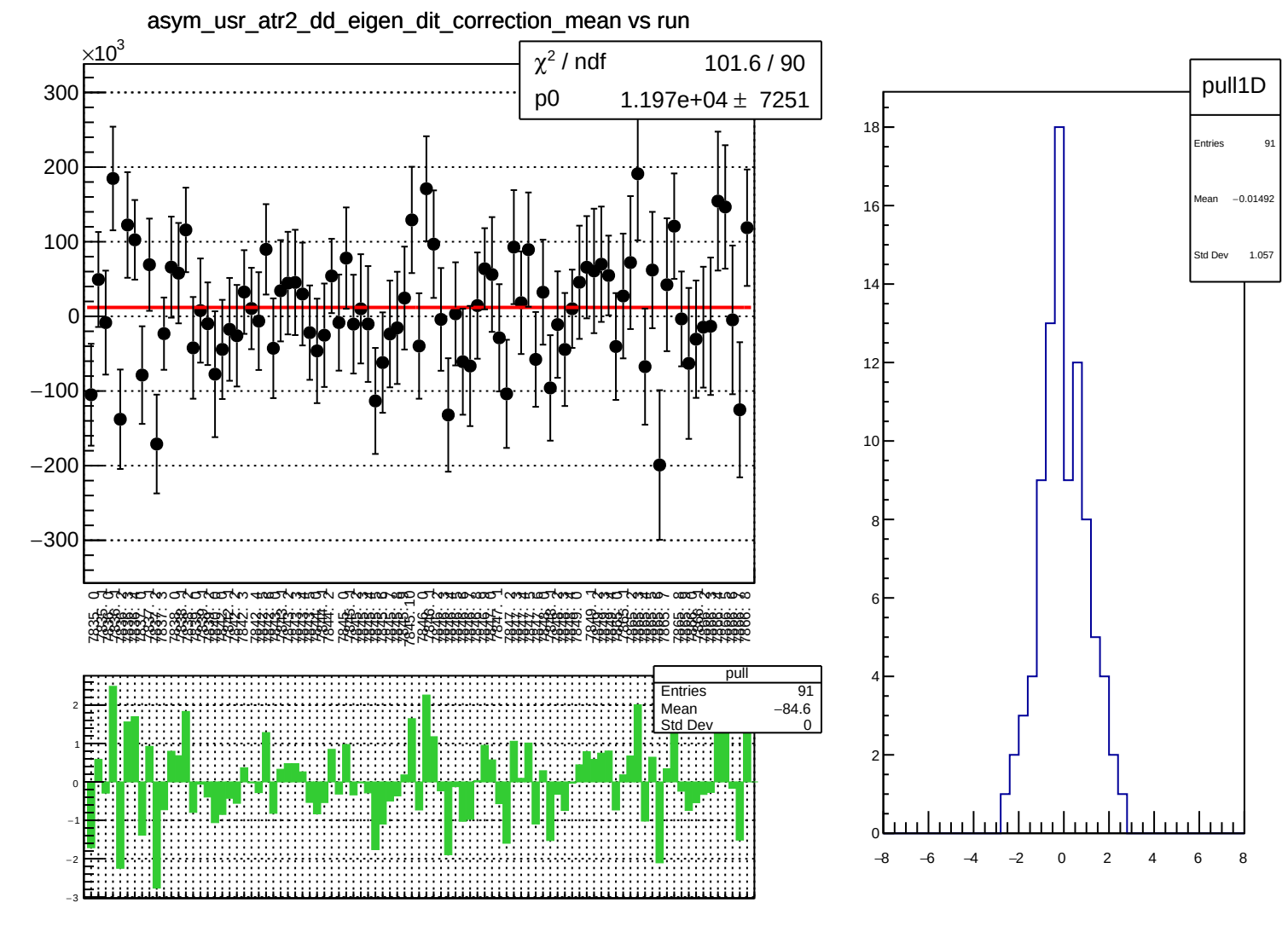

pull1D
Entries 91
Mean −0.01492
Std Dev 1.057

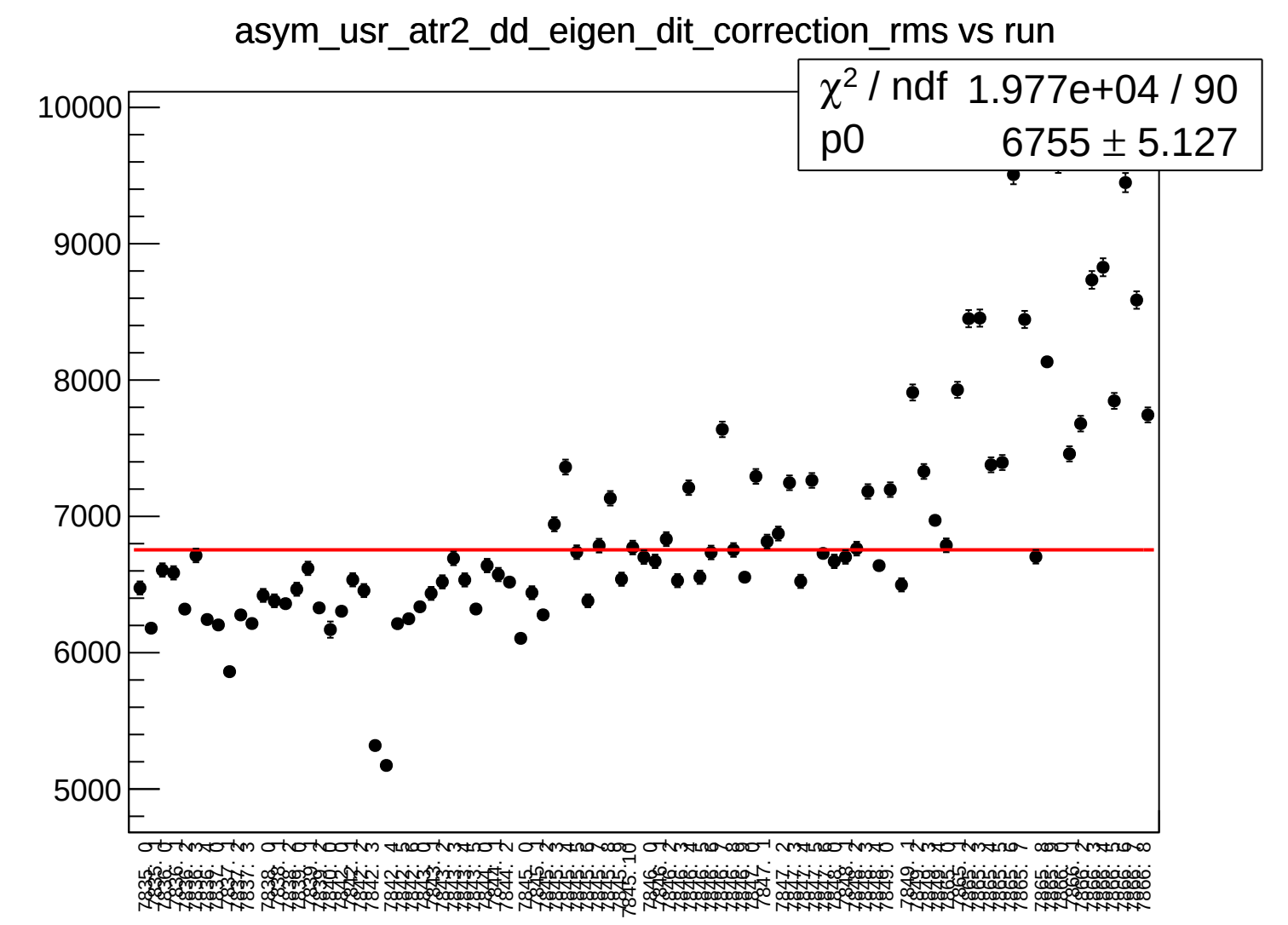

asym_usr_atr2_dd_dit_correction_rms vs run
χ^2 / ndf 1.977e+04 / 90
p0 6755 ± 5.127
10000
9000
8000
7000
6000
5000

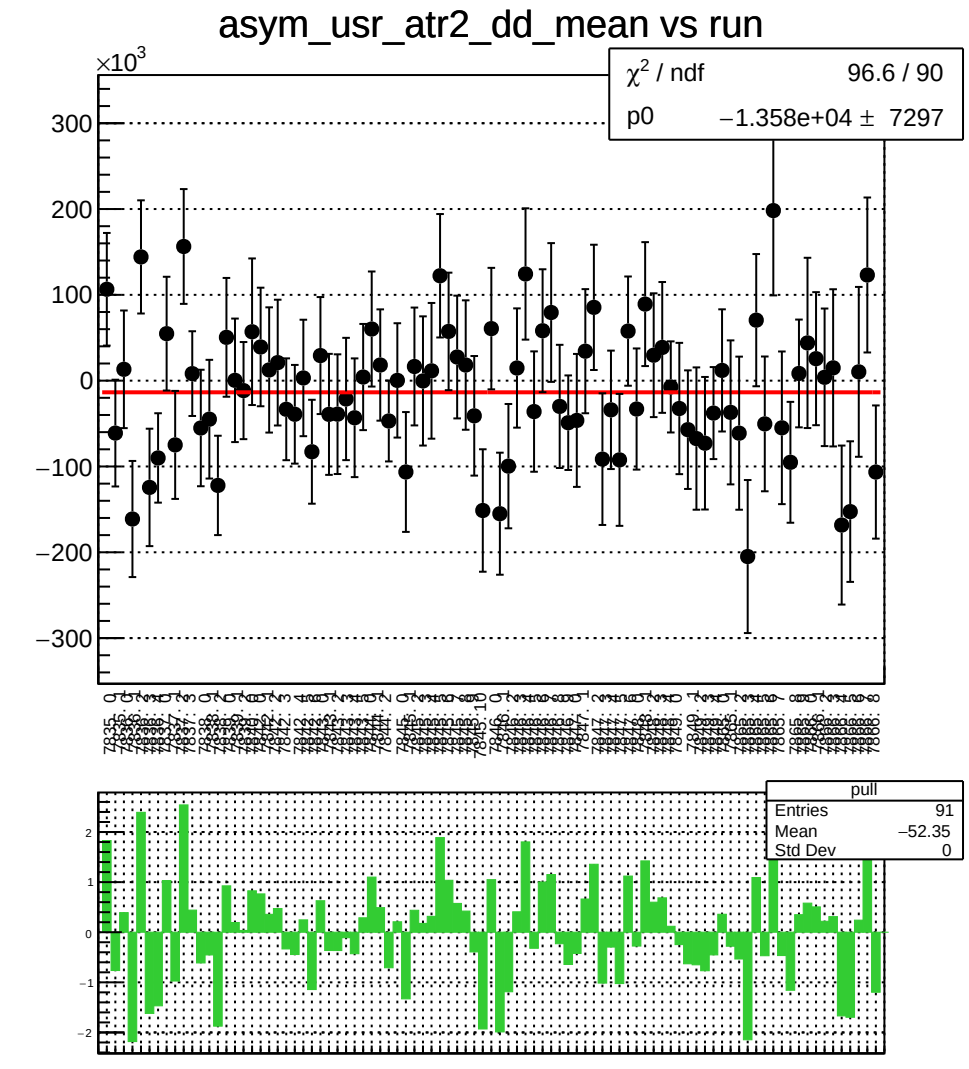

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 77.35 / 90
p0 −1114 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −37.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

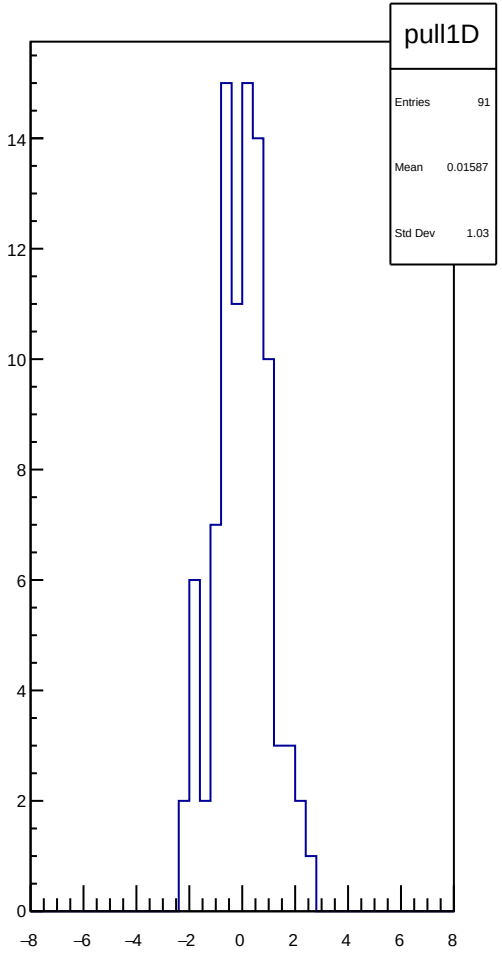

pull1D
Entries 91
Mean −0.01566
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

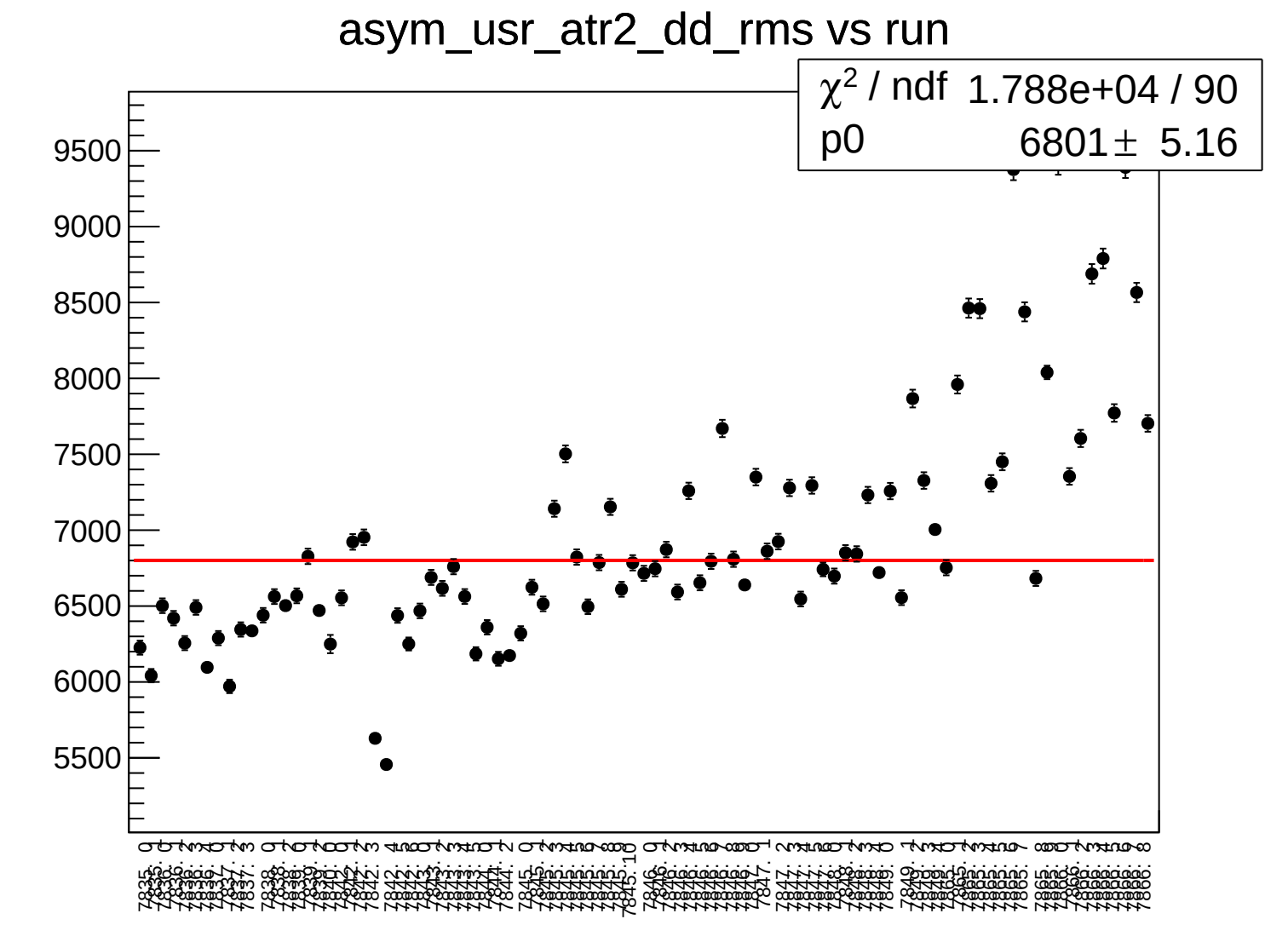

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 846 / 90
p0 1365 ± 1.031
1500
1450
1400
1350
1300

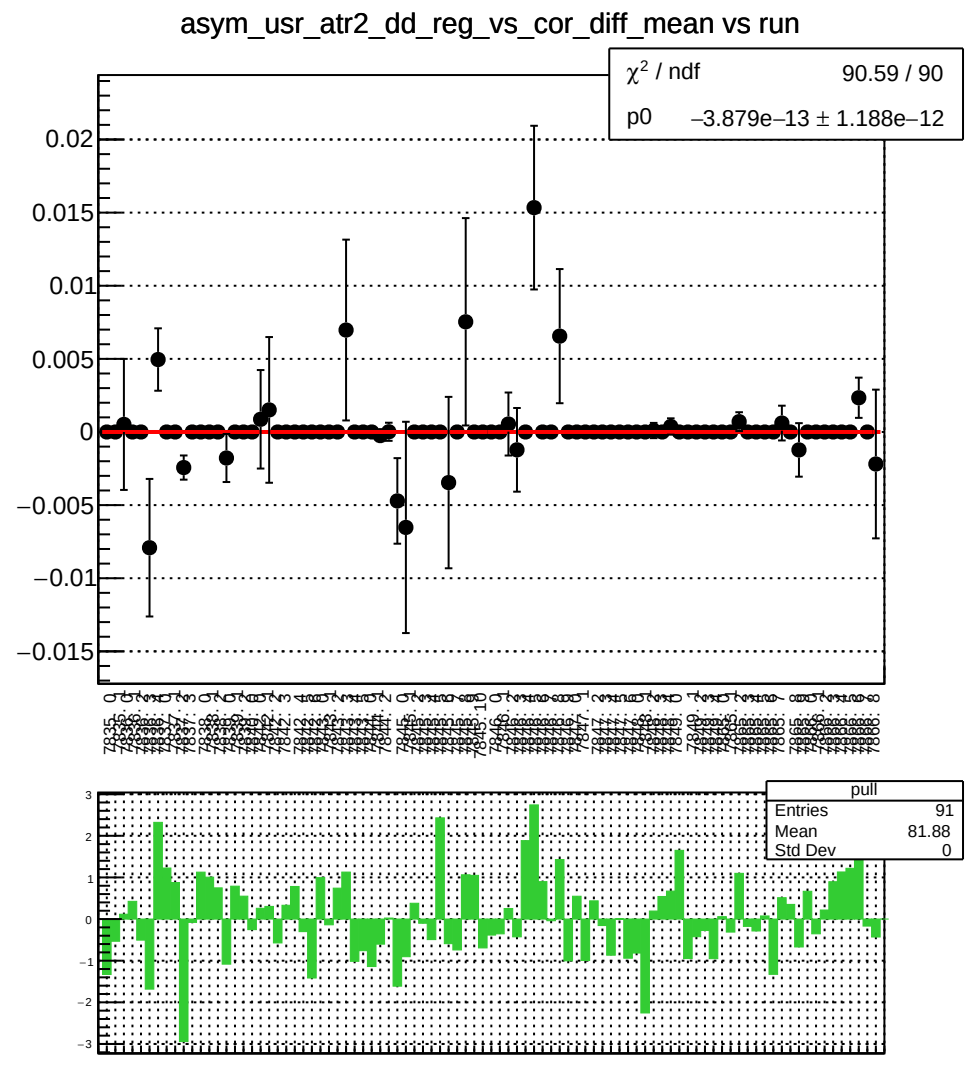

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.6 / 90
p0 1.197e+04 ± 7251
pull
Entries 91
Mean −84.6
Std Dev 0
pull1D
Entries 91
Mean −0.01492
Std Dev 1.057

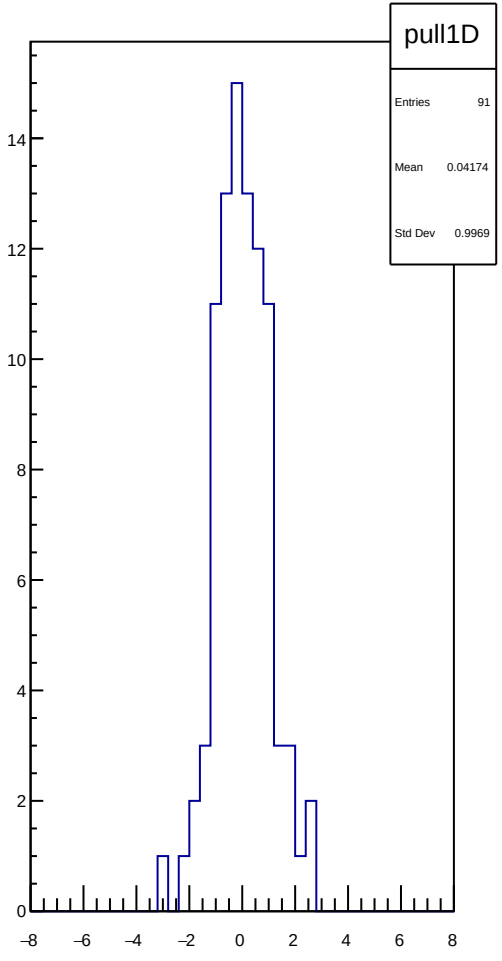

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.977e+04 / 90
p0 6755 ± 5.127
10000
9000
8000
7000
6000
5000

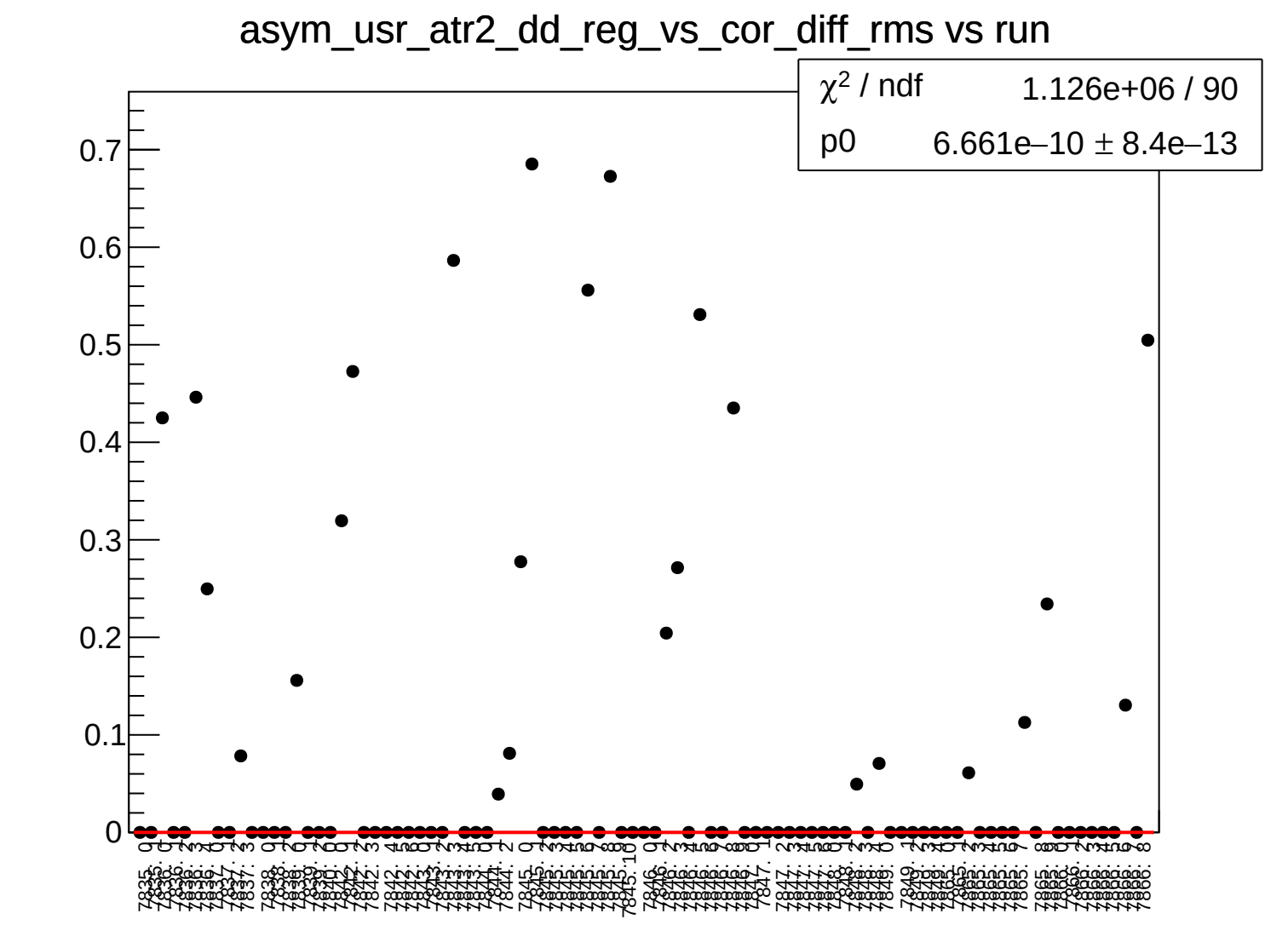

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 96.6 / 90
p0 −1.358e+04 ± 7297
pull
Entries 91
Mean −52.35
Std Dev 0

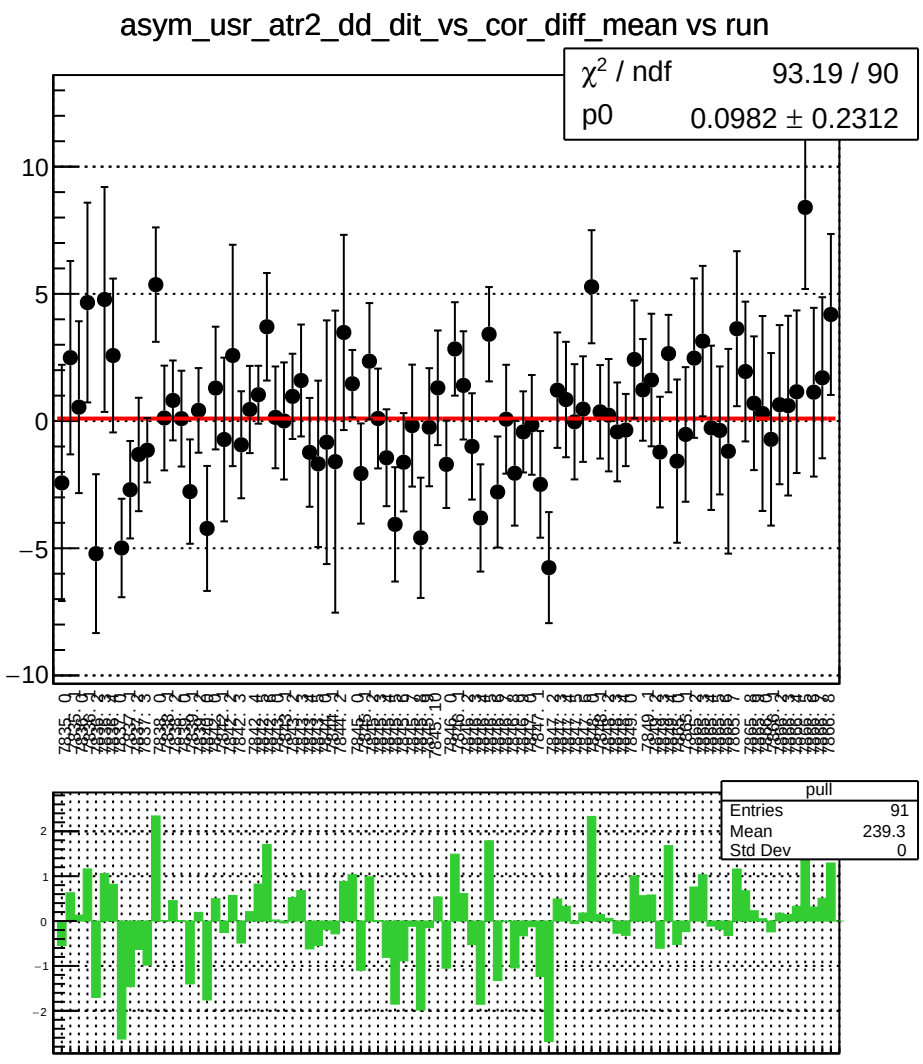

pull1D
Entries 91
Mean 0.01587
Std Dev 1.03

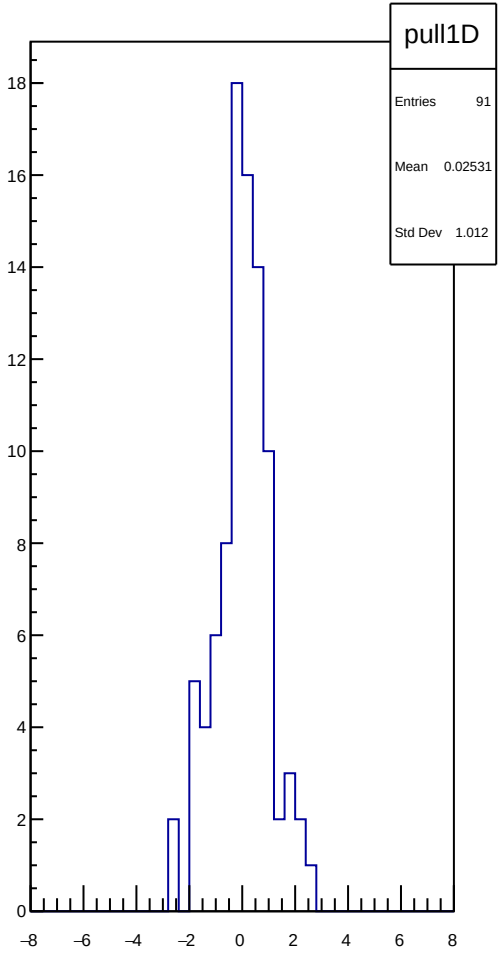

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.788e+04 / 90
p0 6801 ± 5.16
9500
9000
8500
8000
7500
7000
6500
6000
5500

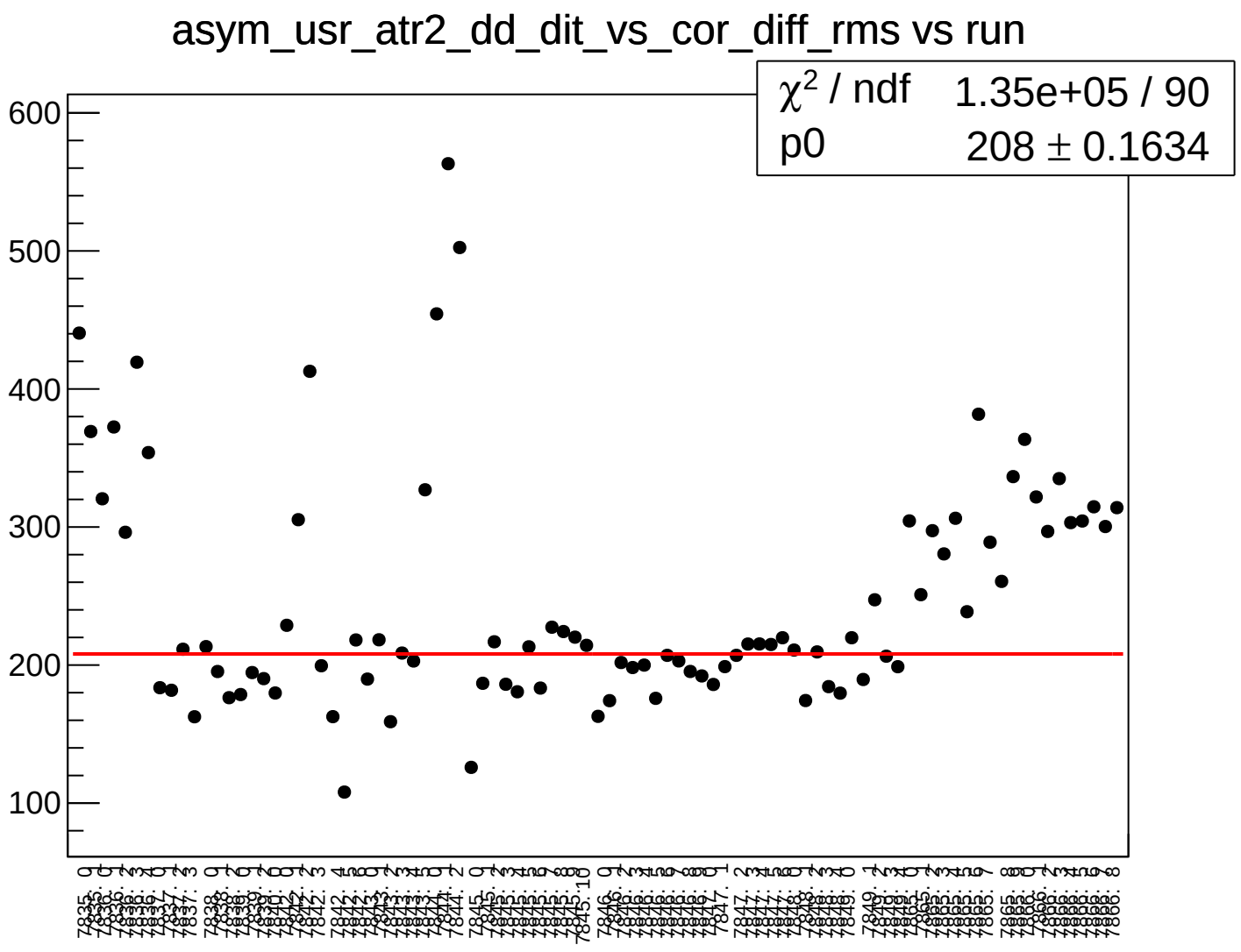

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.59 / 90
p0 −3.879e−13 ± 1.188e−12
pull
Entries 91
Mean 81.88
Std Dev 0

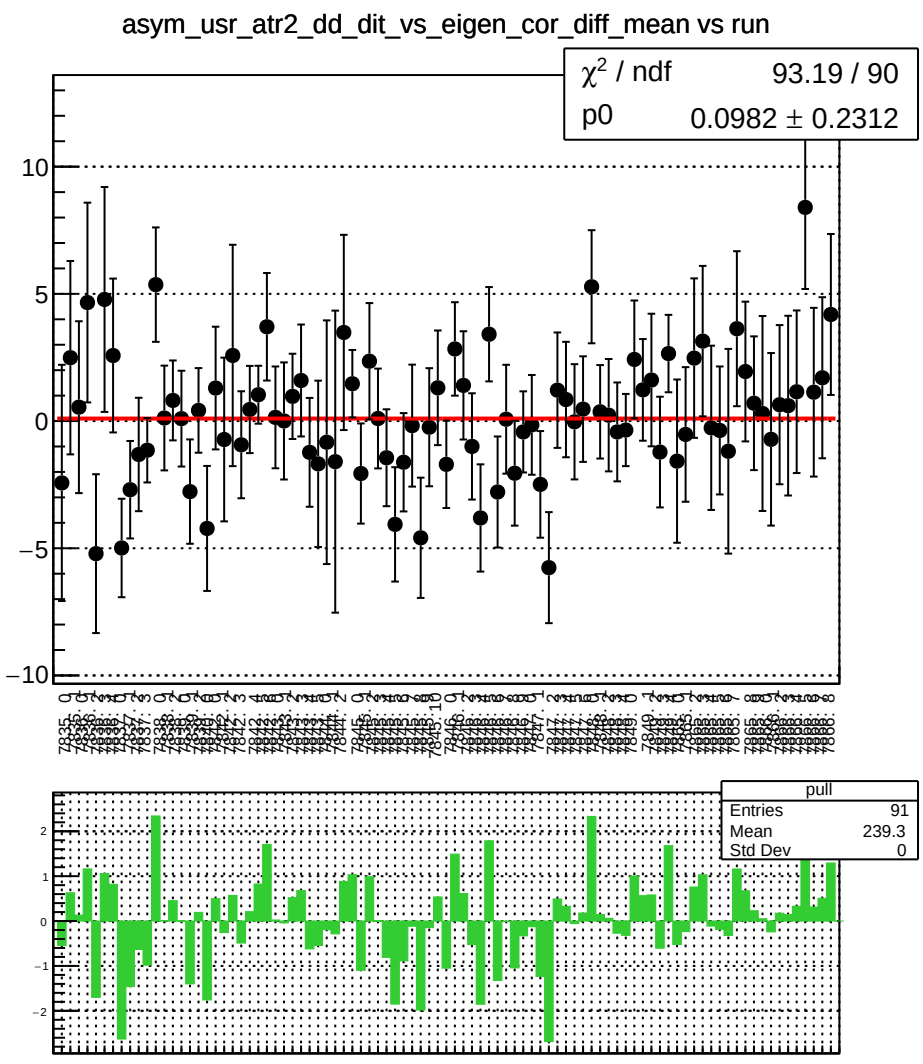

pull1D
Entries 91
Mean 0.04174
Std Dev 0.9969

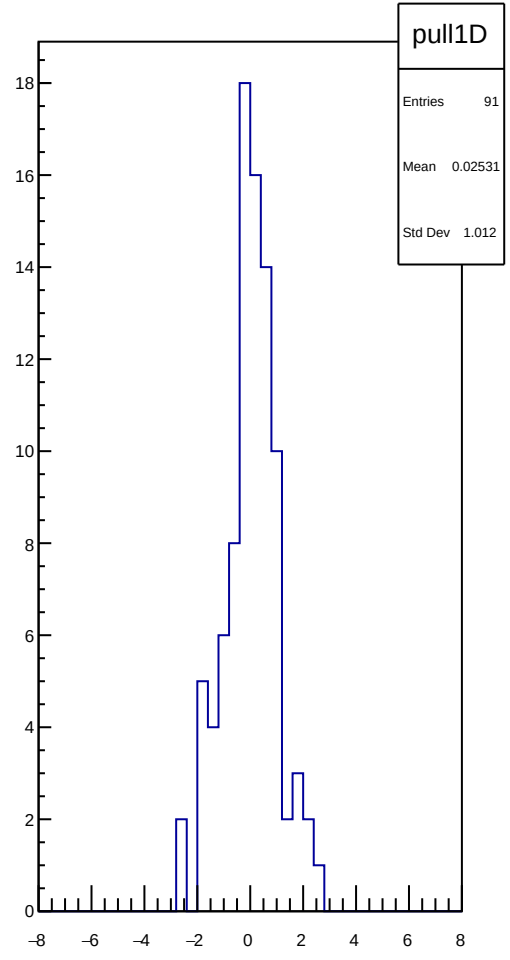

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.126e+06 / 90
p0 6.661e−10 ± 8.4e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

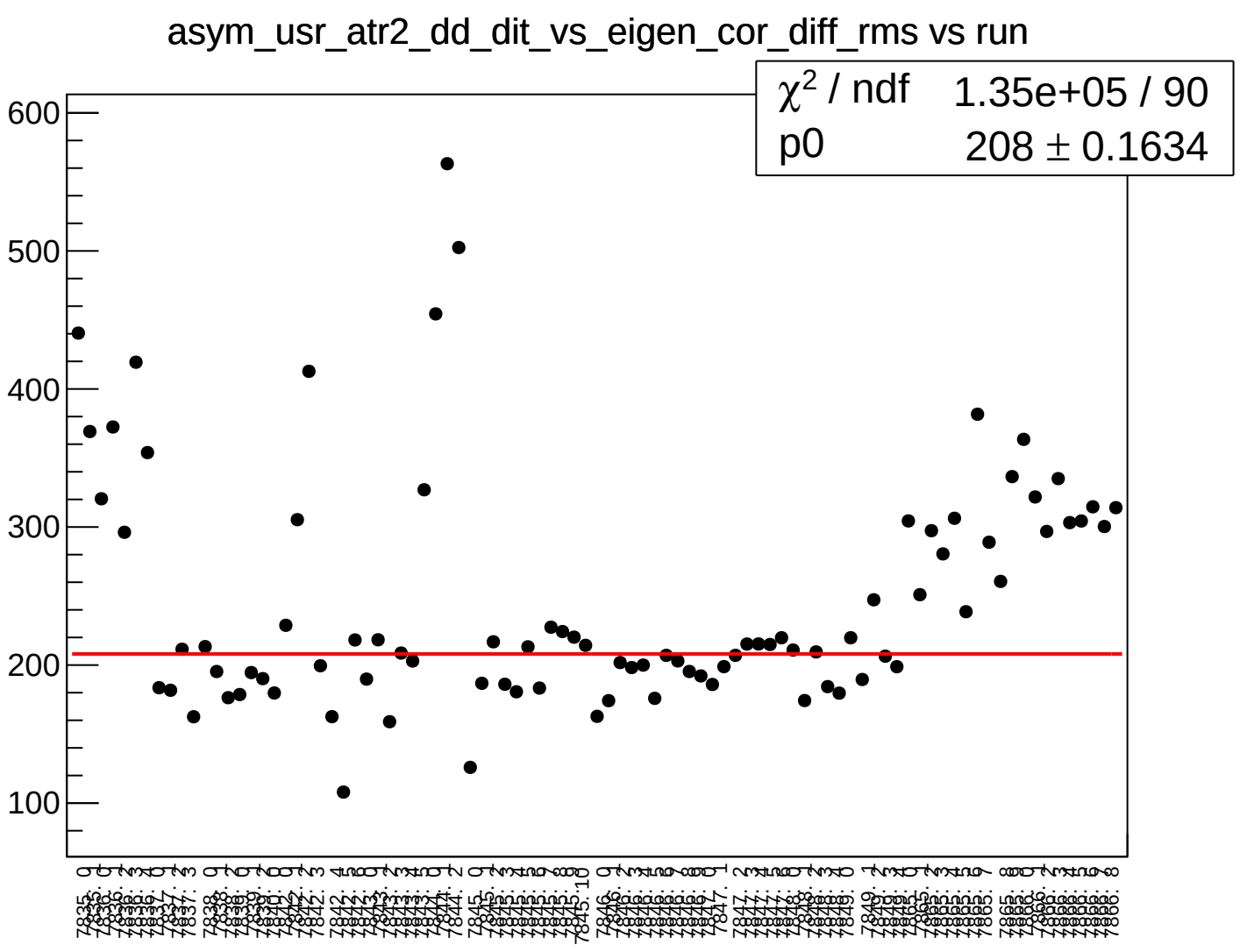

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.19 / 90
p0 0.0982 ± 0.2312
pull
Entries 91
Mean 239.3
Std Dev 0

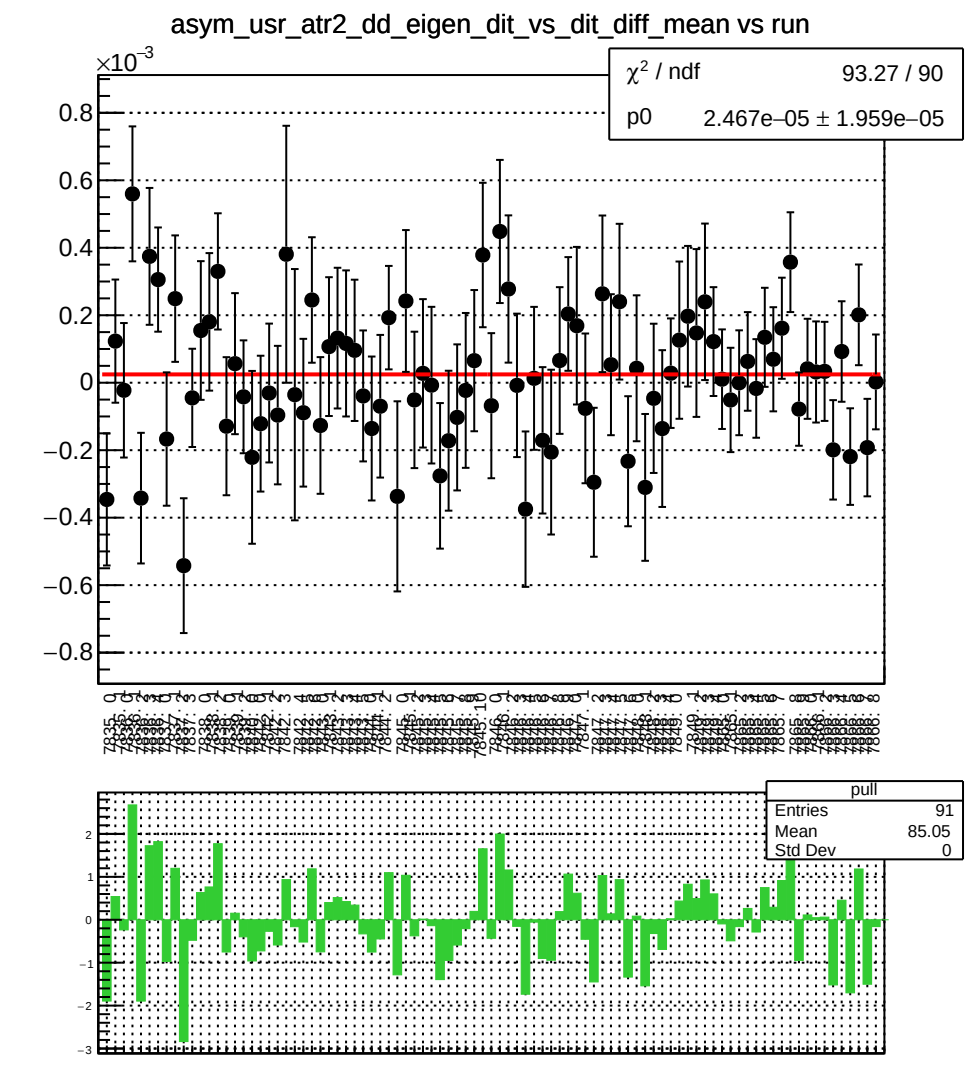

pull1D
Entries 91
Mean 0.02531
Std Dev 1.012

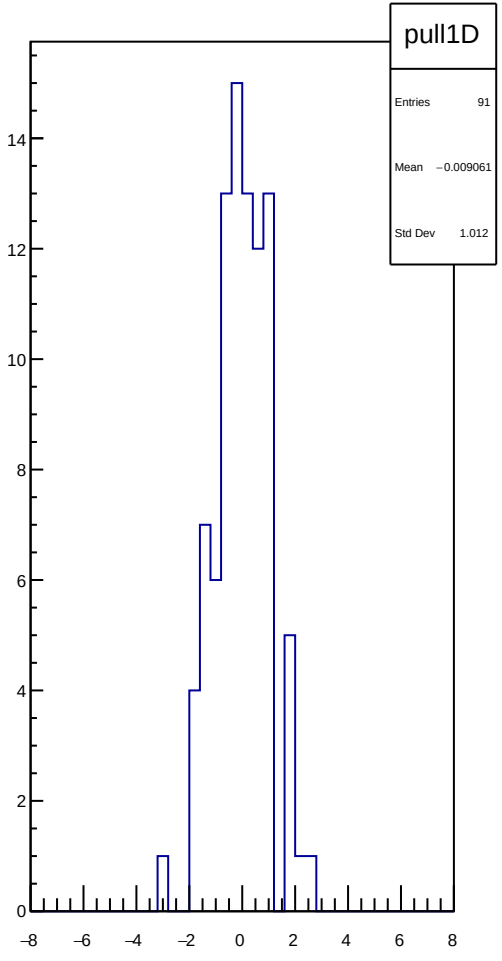

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 90
p0 208 ± 0.1634
600
500
400
300
200
100

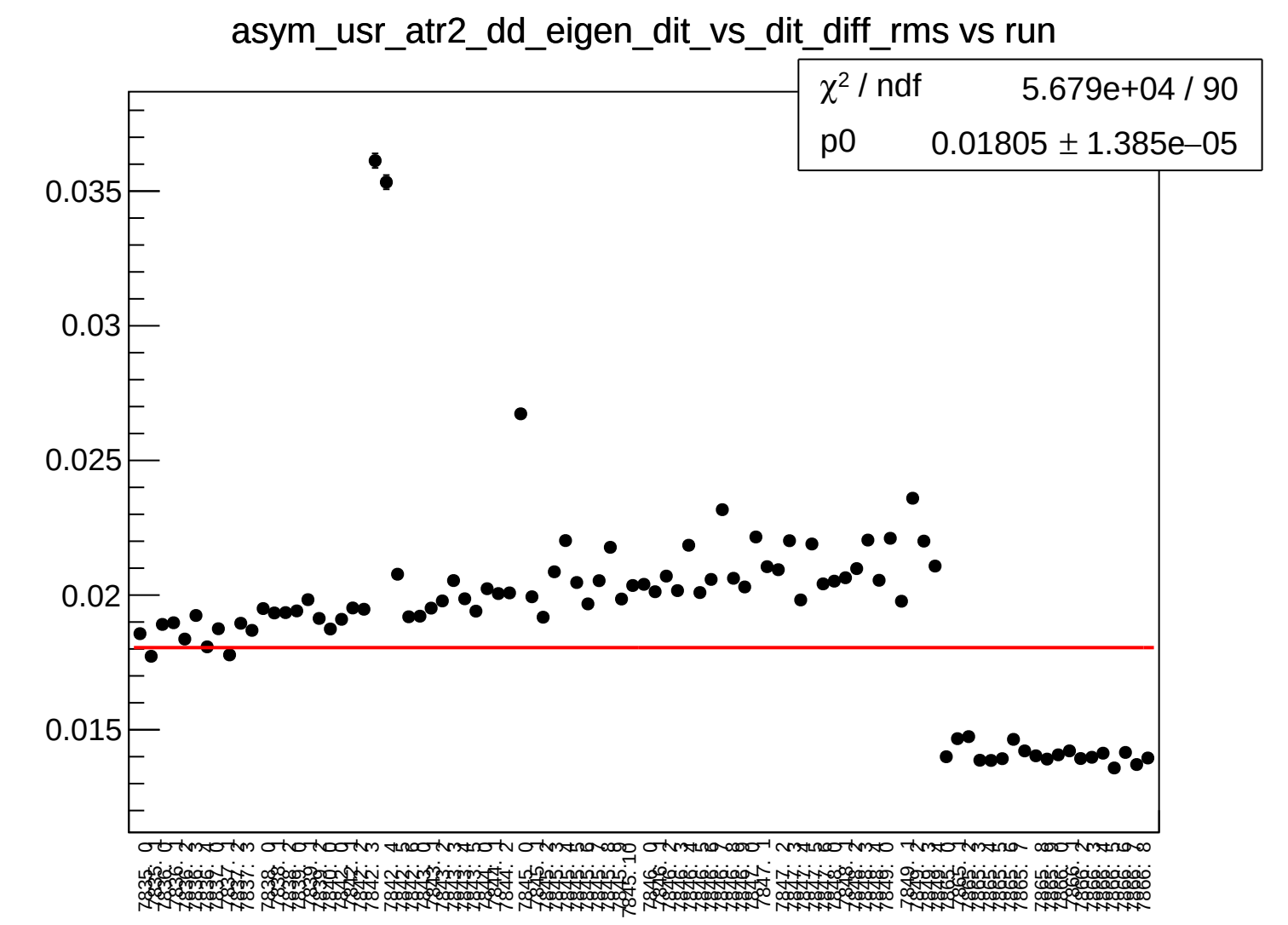

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.19 / 90
p0 0.0982 ± 0.2312
pull
Entries 91
Mean 239.3
Std Dev 0

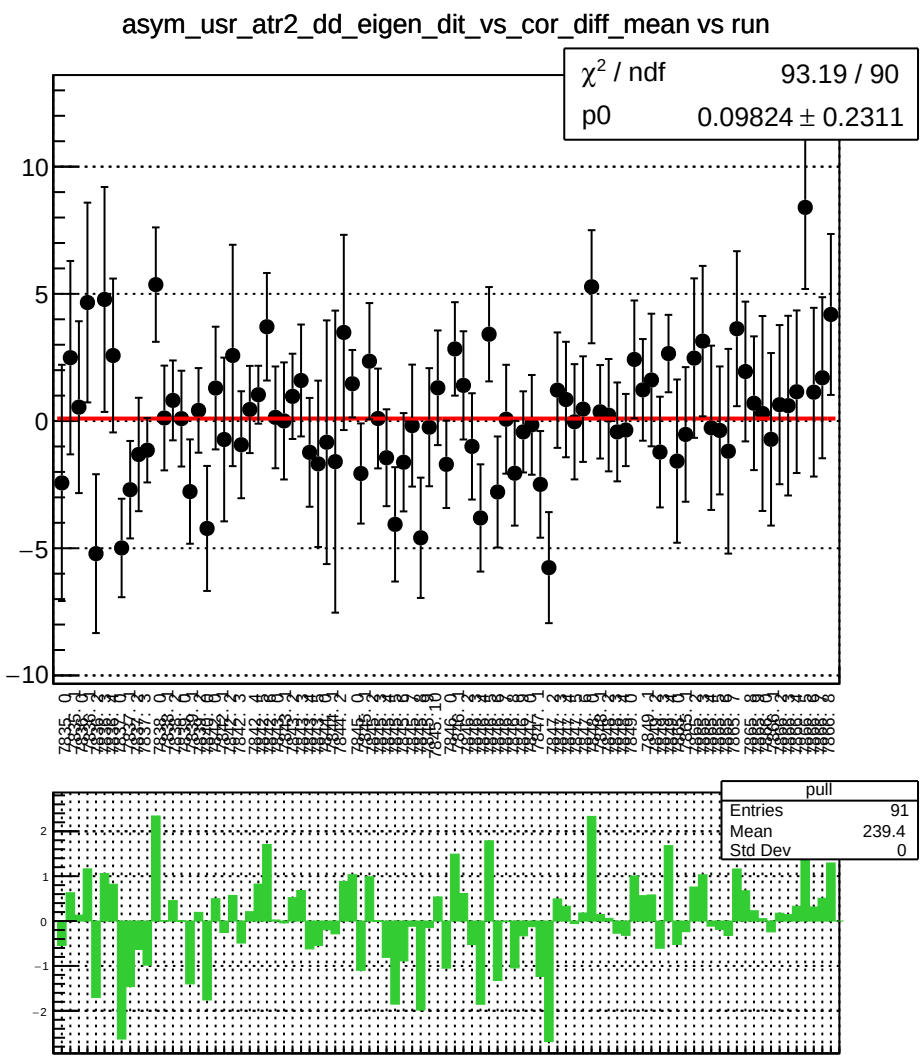

pull1D
Entries 91
Mean 0.02531
Std Dev 1.012

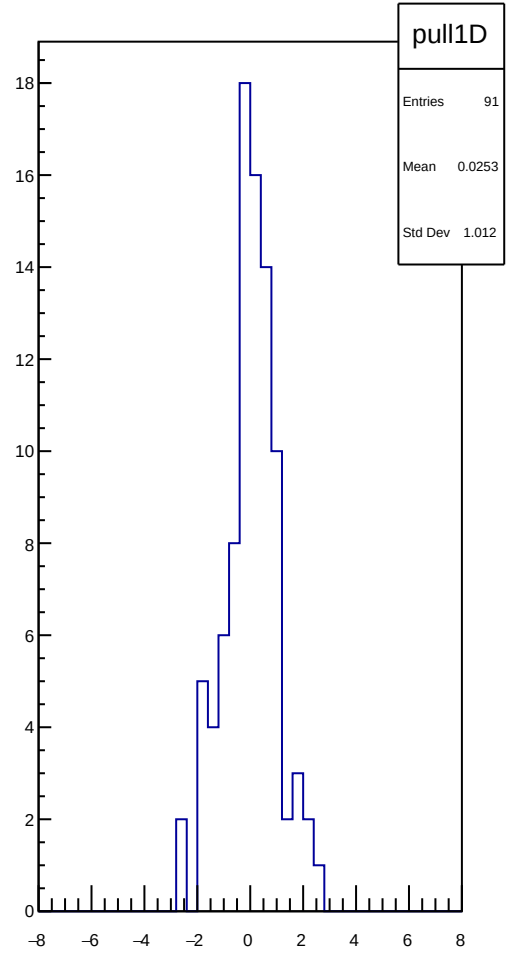

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 90
p0 208 ± 0.1634
600
500
400
300
200
100

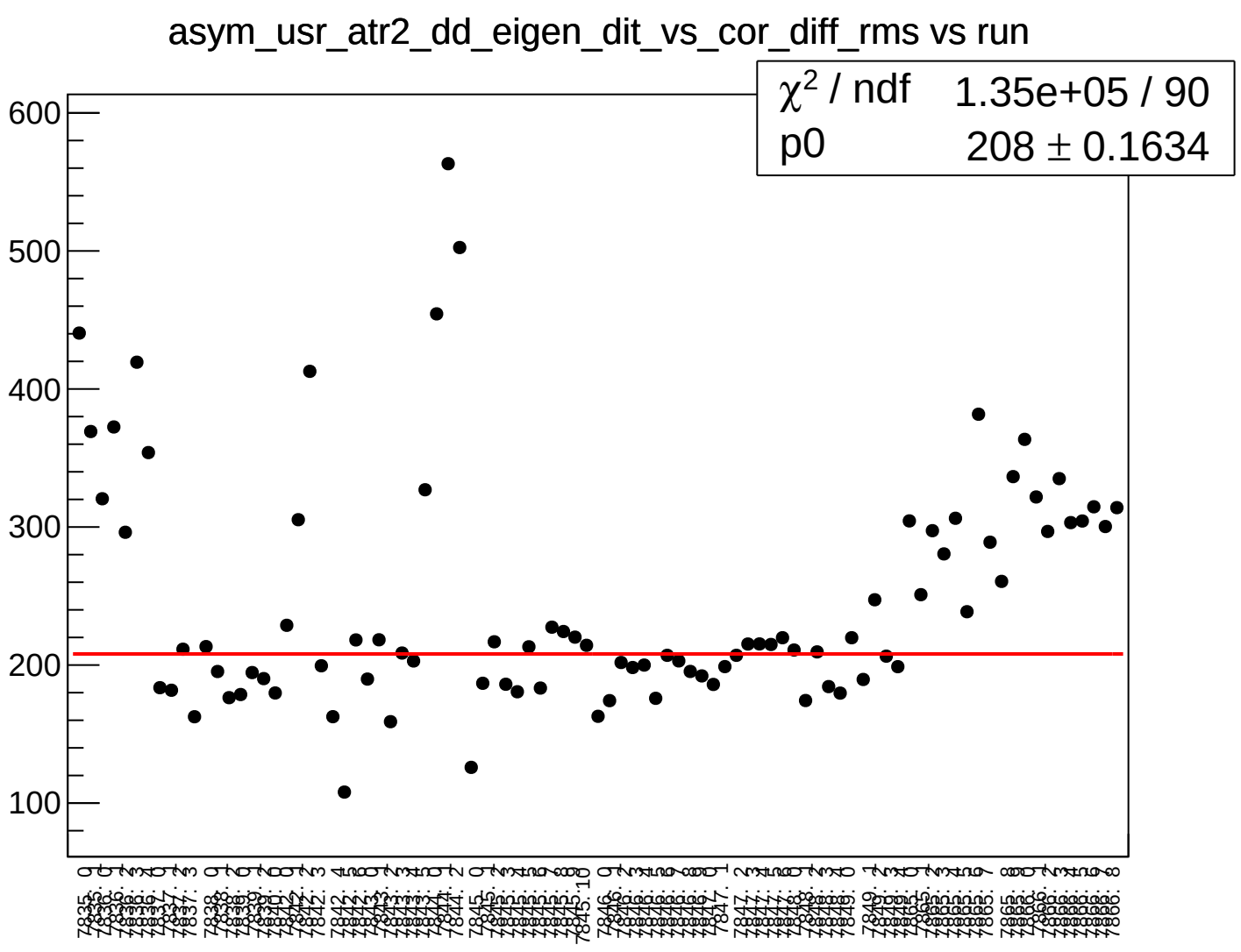

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.27 / 90
p0 2.467e−05 ± 1.959e−05
pull
Entries 91
Mean 85.05
Std Dev 0

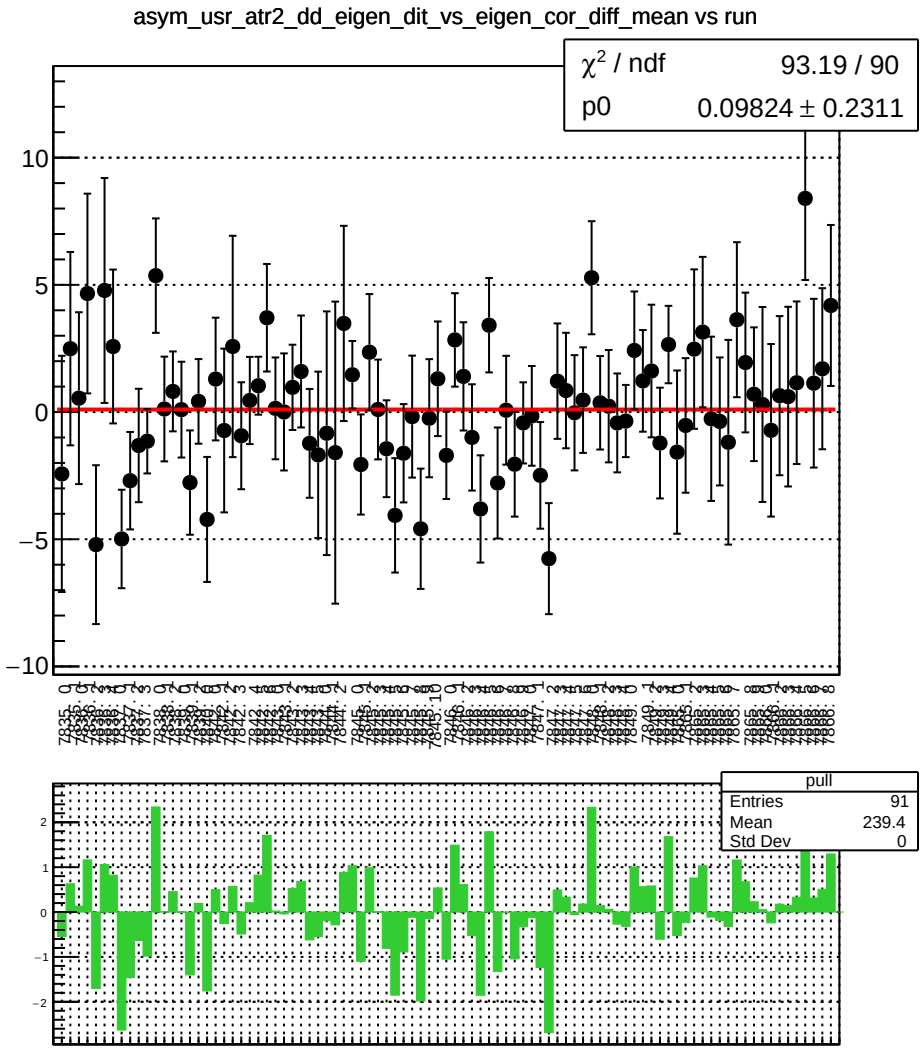

pull1D
Entries 91
Mean −0.009061
Std Dev 1.012

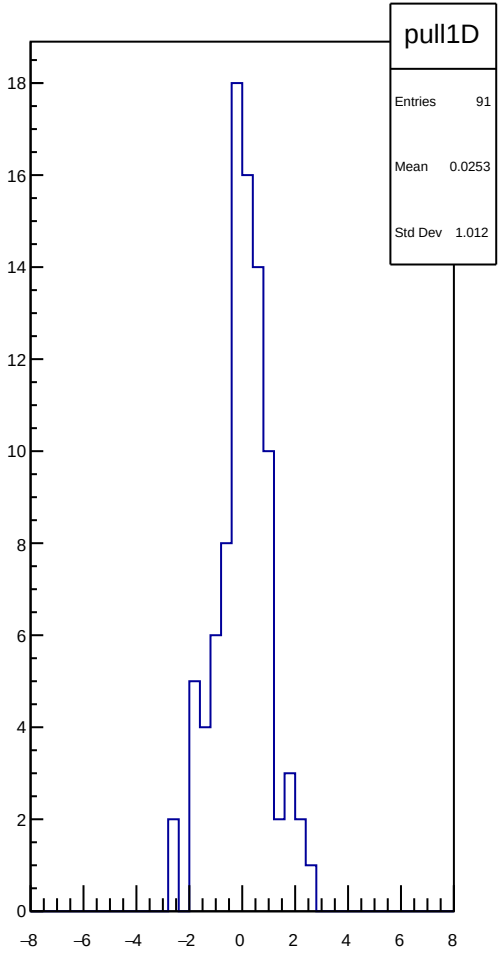

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.679e+04 / 90
p0 0.01805 ± 1.385e−05
0.035
0.03
0.025
0.02
0.015

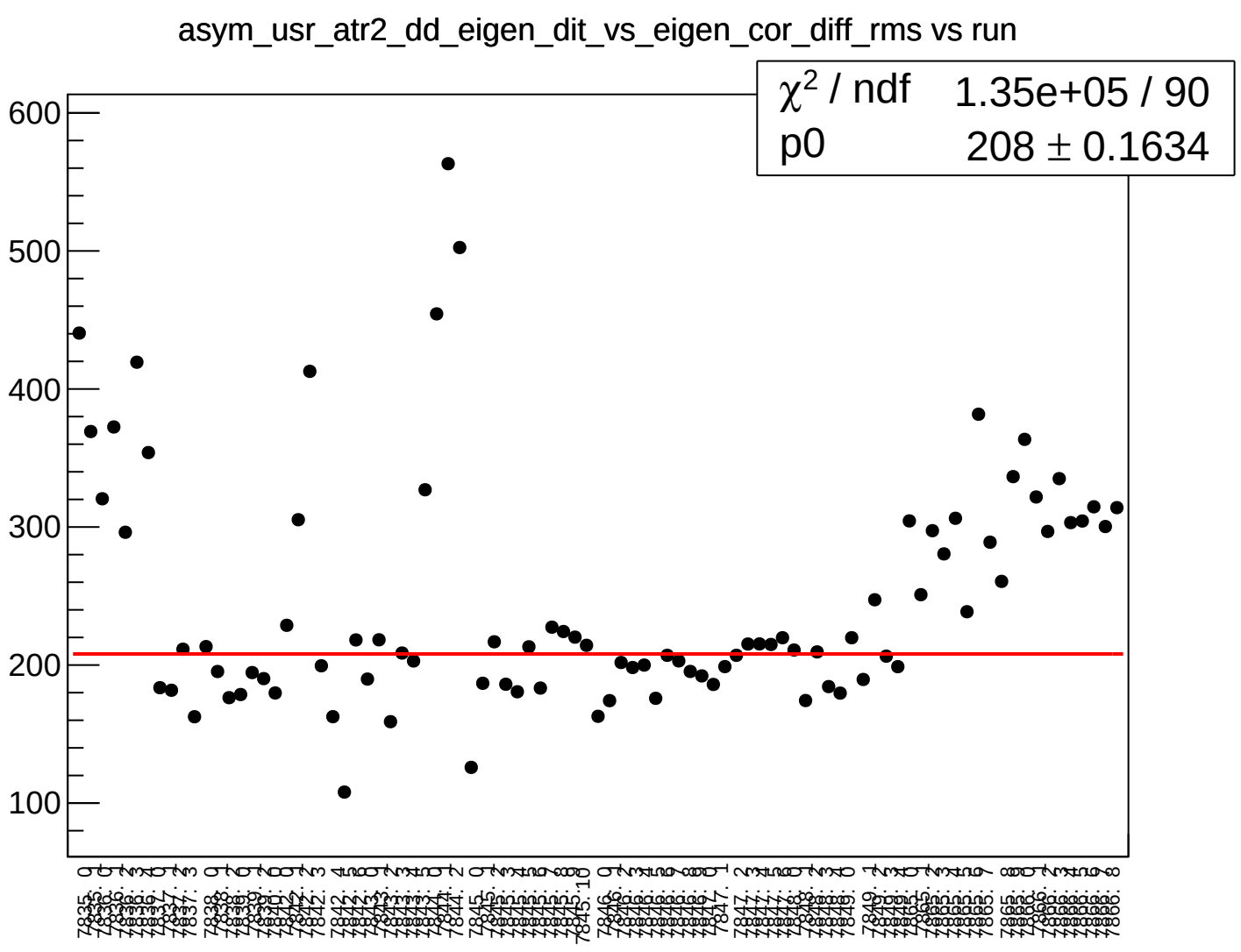

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.19 / 90
p0 0.09824 ± 0.2311
pull
Entries 91
Mean 239.4
Std Dev 0

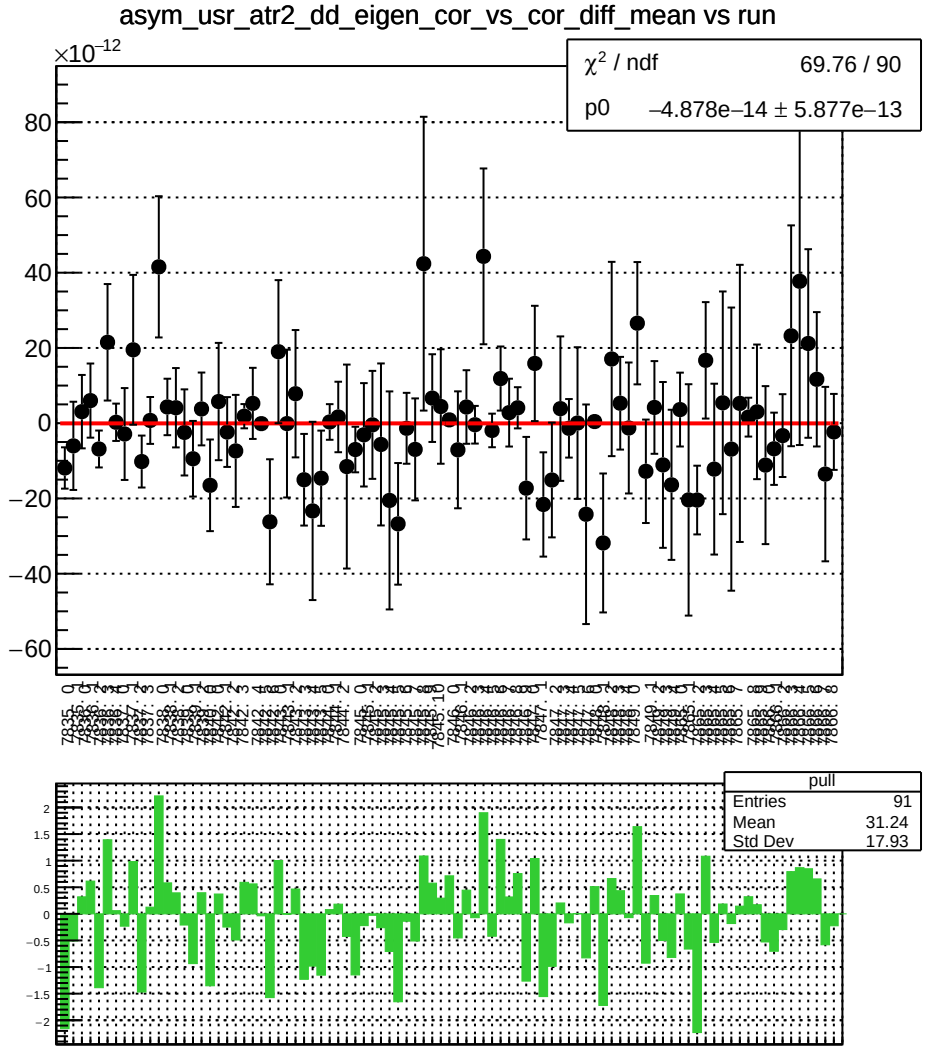

pull1D
Entries 91
Mean 0.0253
Std Dev 1.012

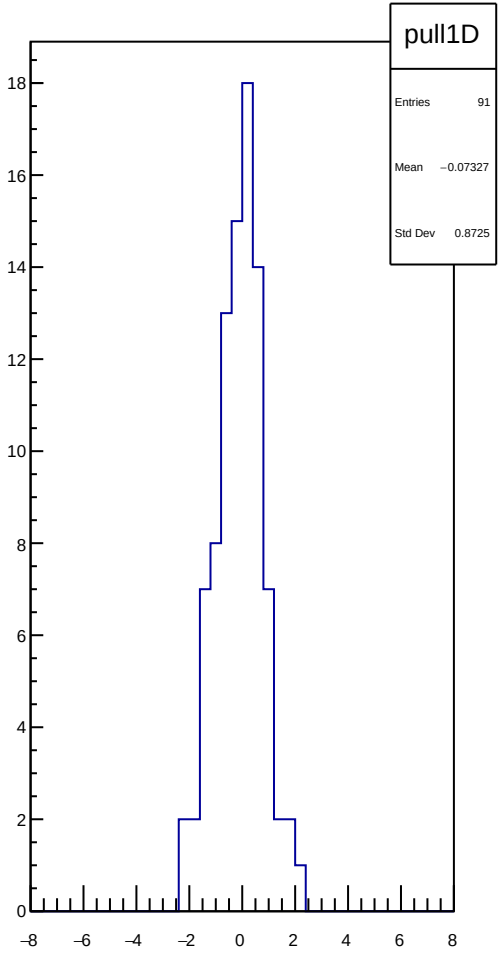

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 90
p0 208 ± 0.1634
600
500
400
300
200
100

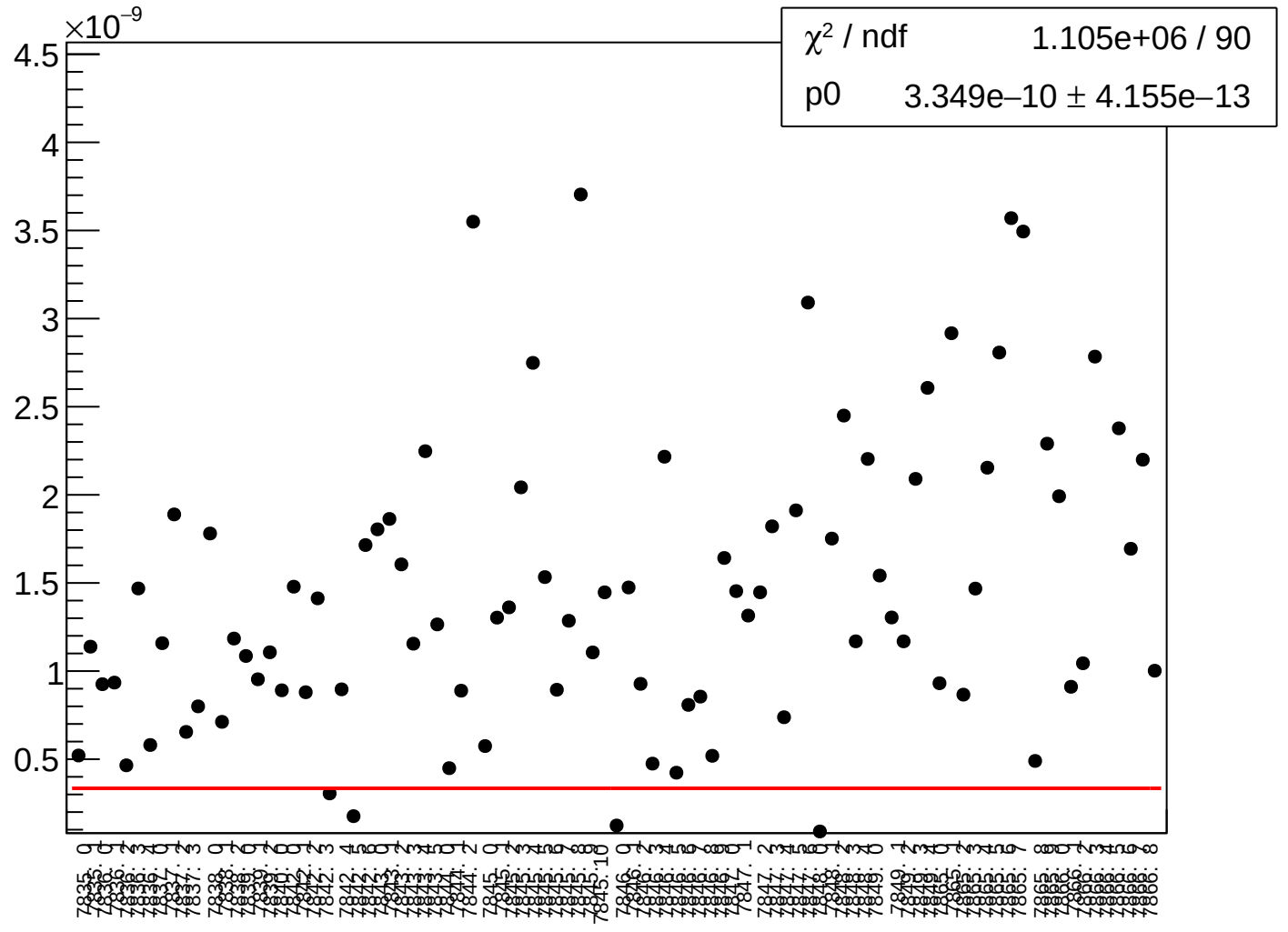

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.19 / 90
p0 0.09824 ± 0.2311
pull
Entries 91
Mean 239.4
Std Dev 0

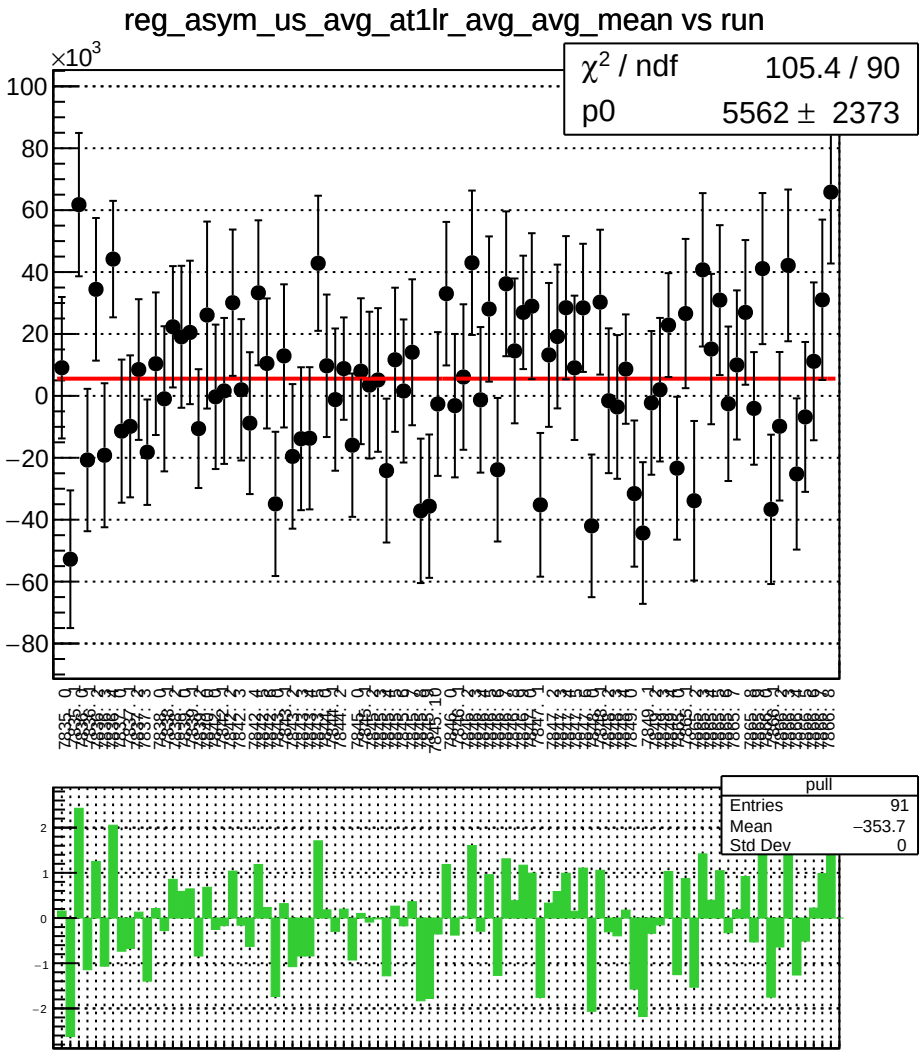

pull1D
Entries 91
Mean 0.0253
Std Dev 1.012

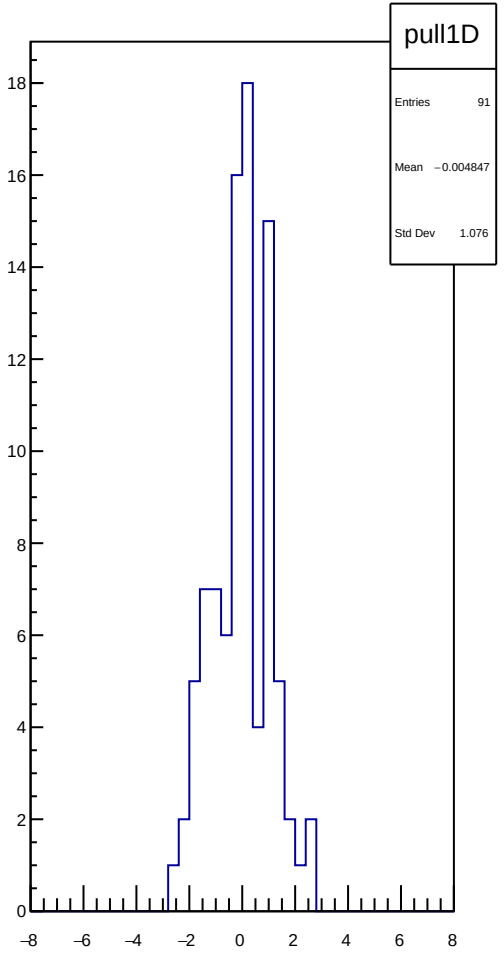

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 90
p0 208 ± 0.1634
600
500
400
300
200
100

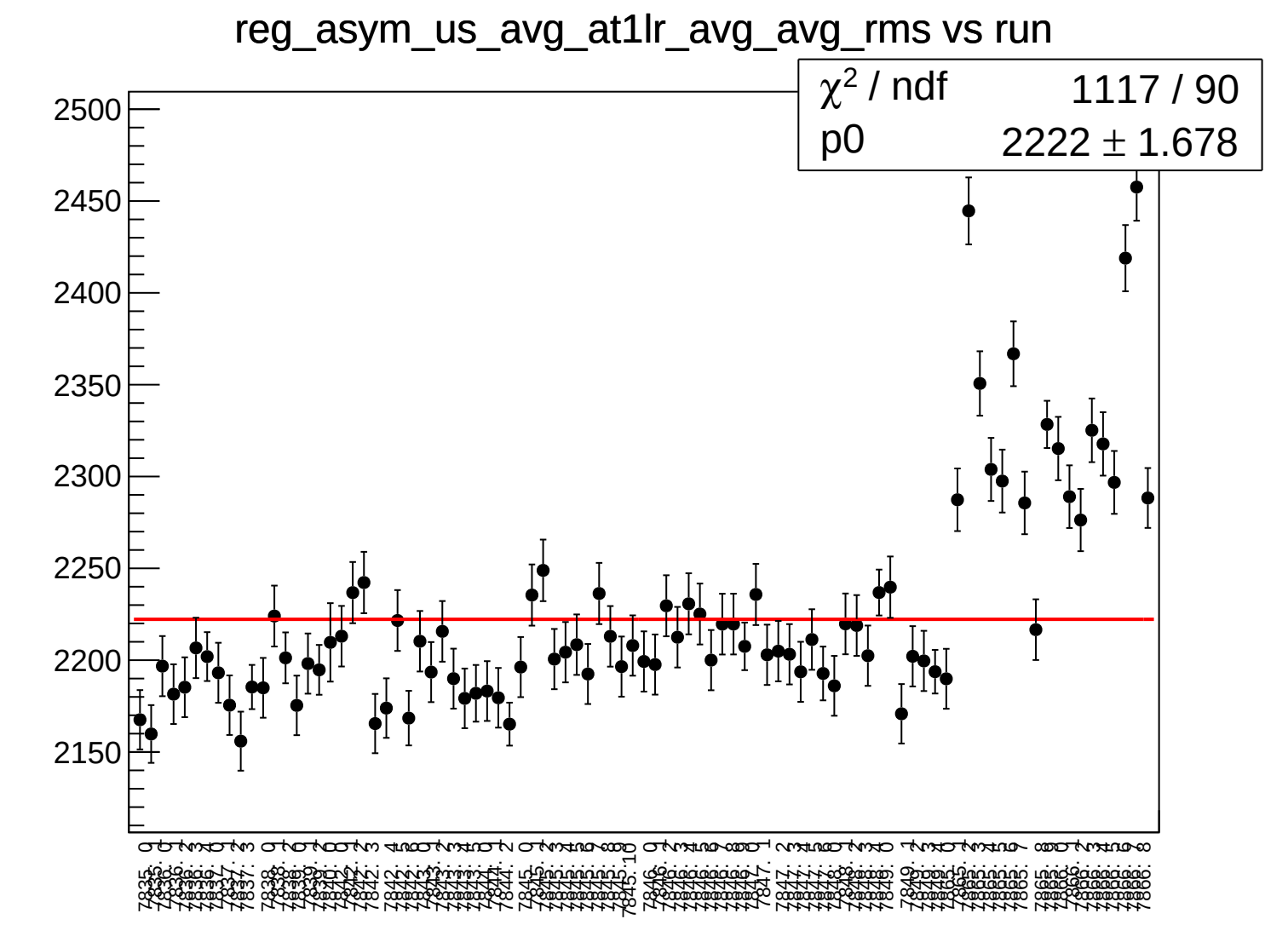

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.76 / 90
p0 −4.878e−14 ± 5.877e−13
pull
Entries 91
Mean 31.24
Std Dev 17.93

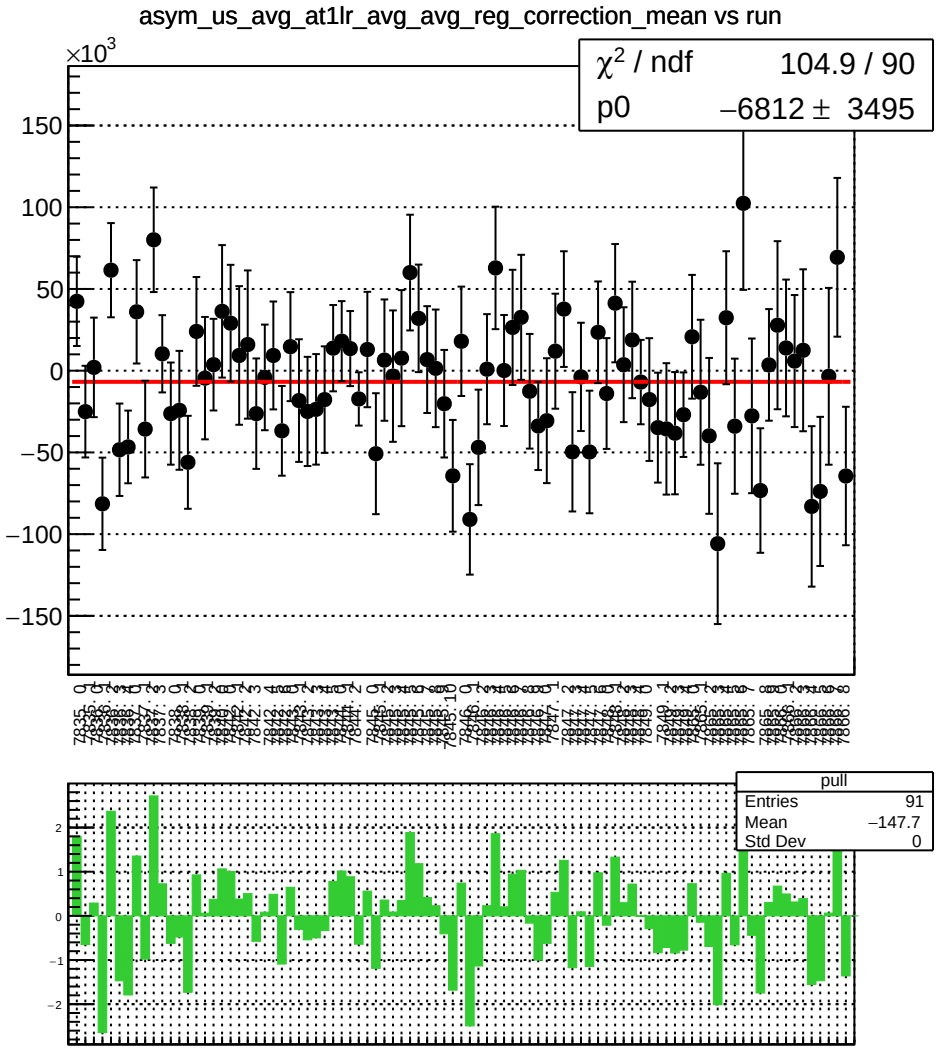

pull1D
Entries 91
Mean −0.07327
Std Dev 0.8725

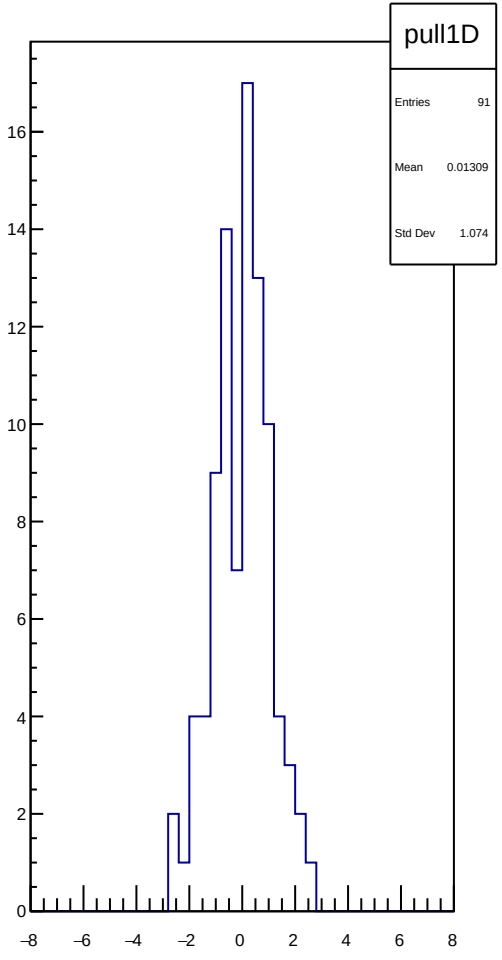

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.105e+06 / 90
p0 3.349e−10 ± 4.155e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

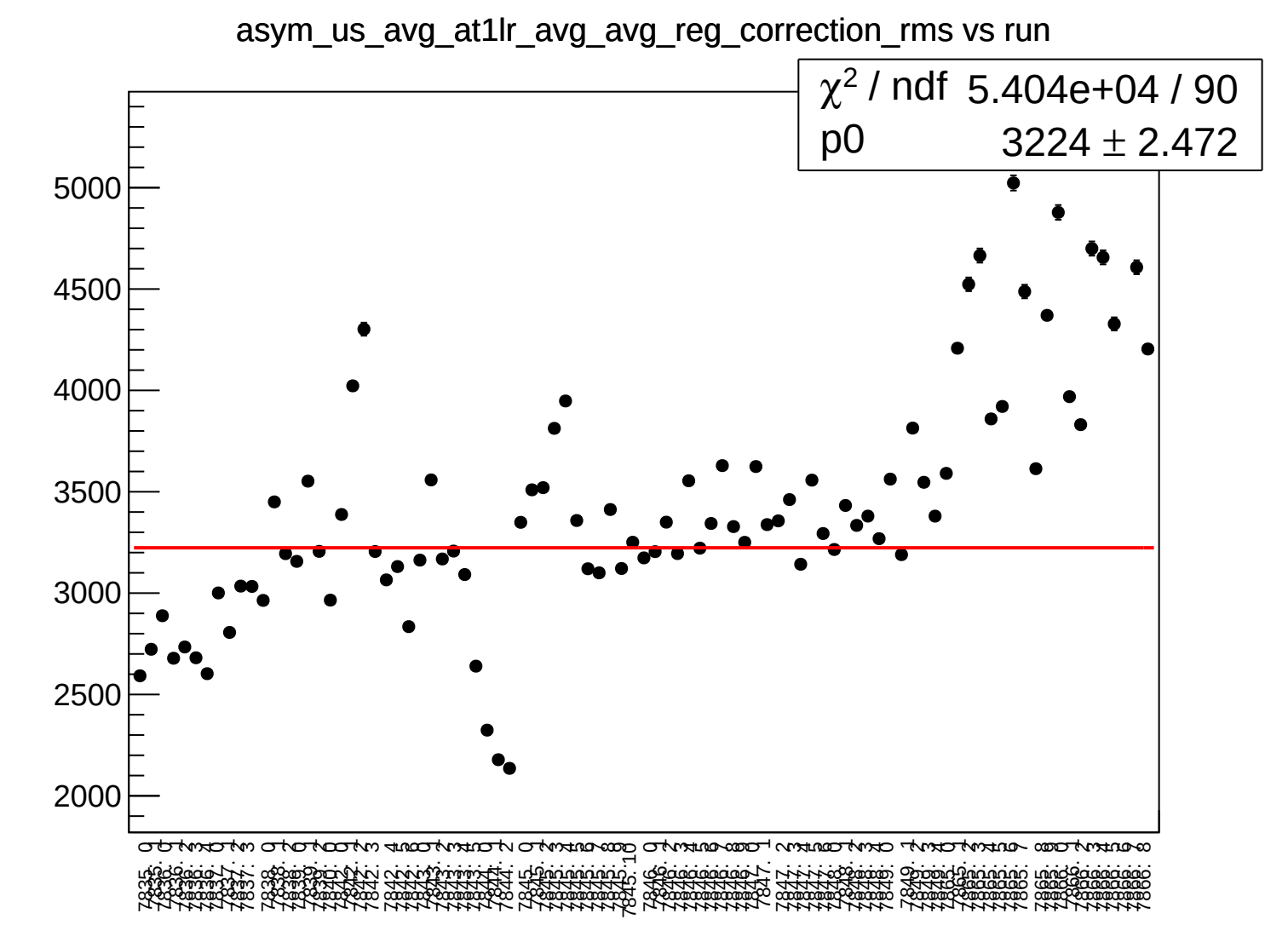

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 105.4 / 90
p0 5562 ± 2373
pull
Entries 91
Mean −353.7
Std Dev 0

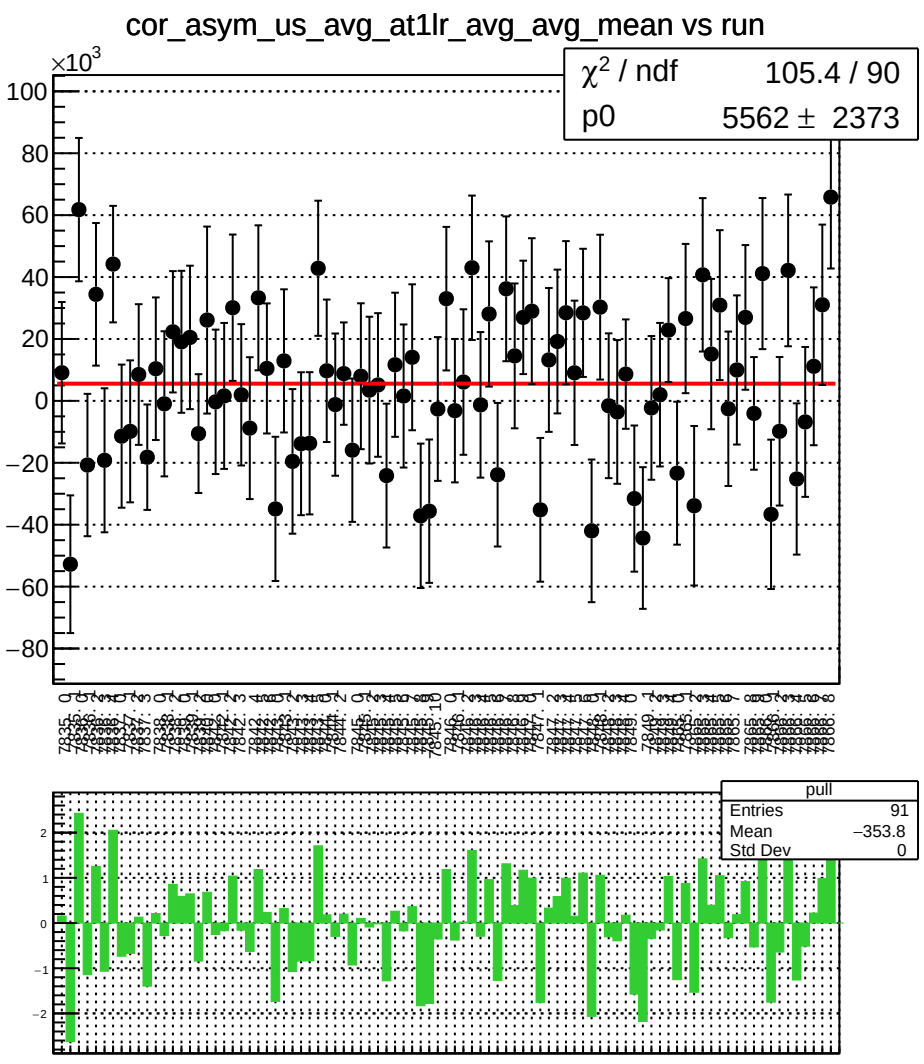

pull1D
Entries 91
Mean −0.004847
Std Dev 1.076

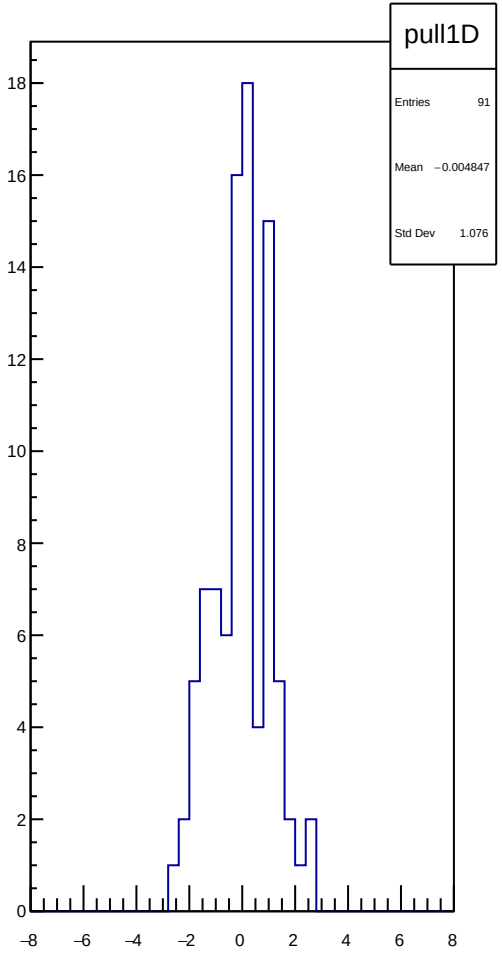

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1117 / 90
p0 2222 ± 1.678
2500
2450
2400
2350
2300
2250
2200
2150

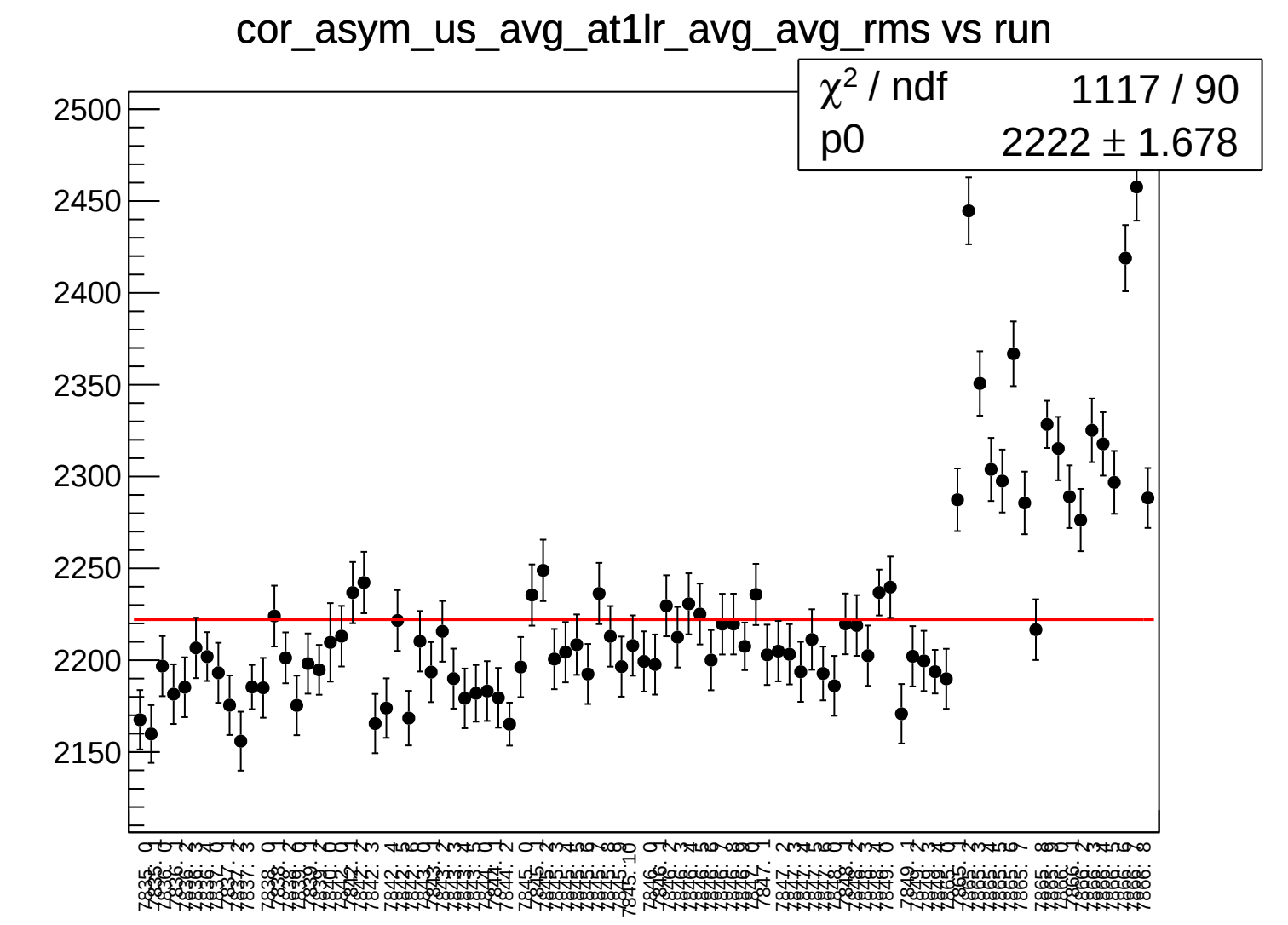

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 104.9 / 90
p0 −6812 ± 3495
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −147.7
Std Dev 0
2
1
0
−1
−2

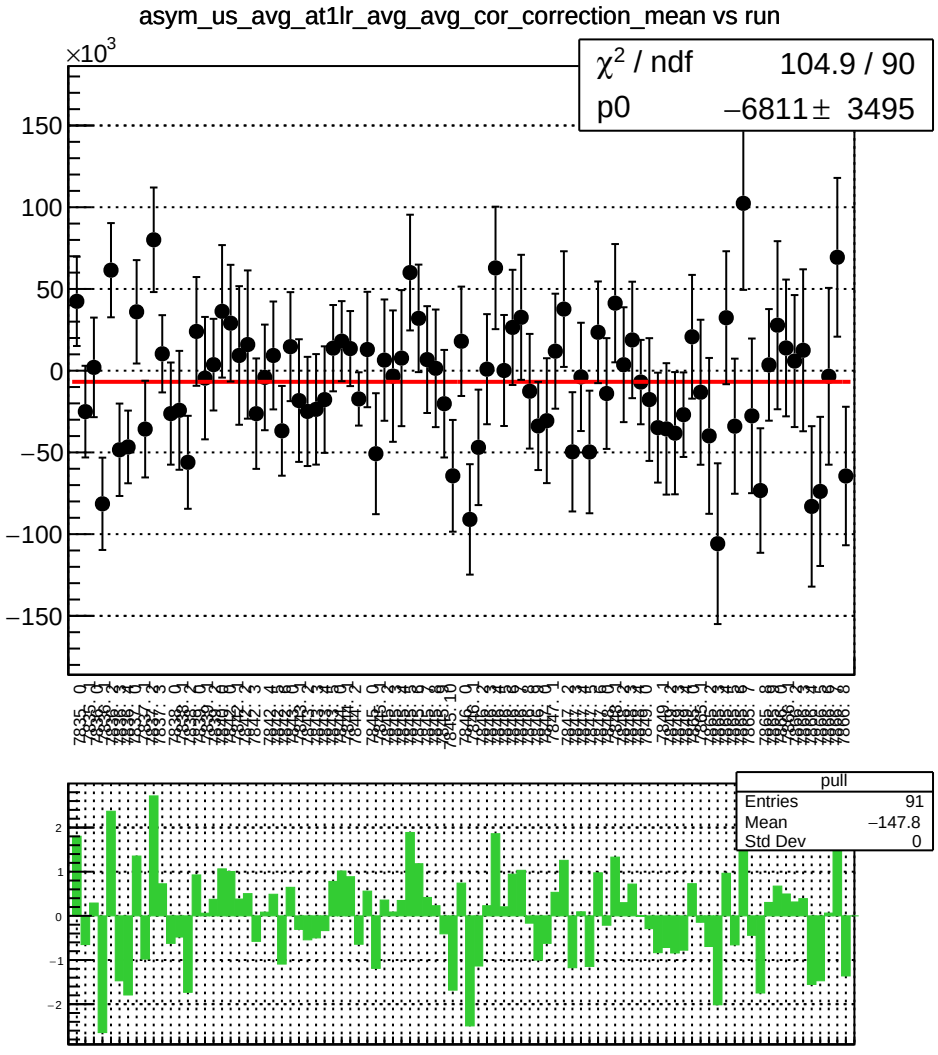

pull1D
Entries 91
Mean 0.01309
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

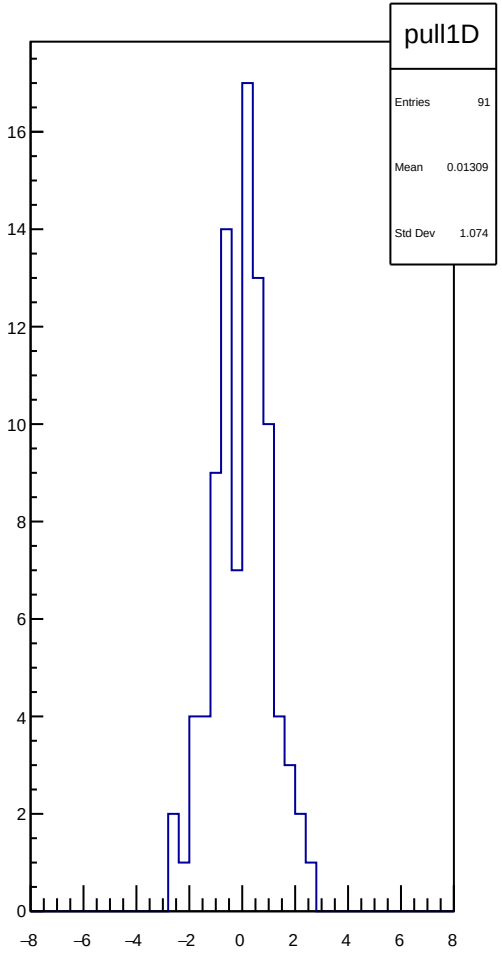

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5.404e+04 / 90
p0 3224 ± 2.472
5000
4500
4000
3500
3000
2500
2000

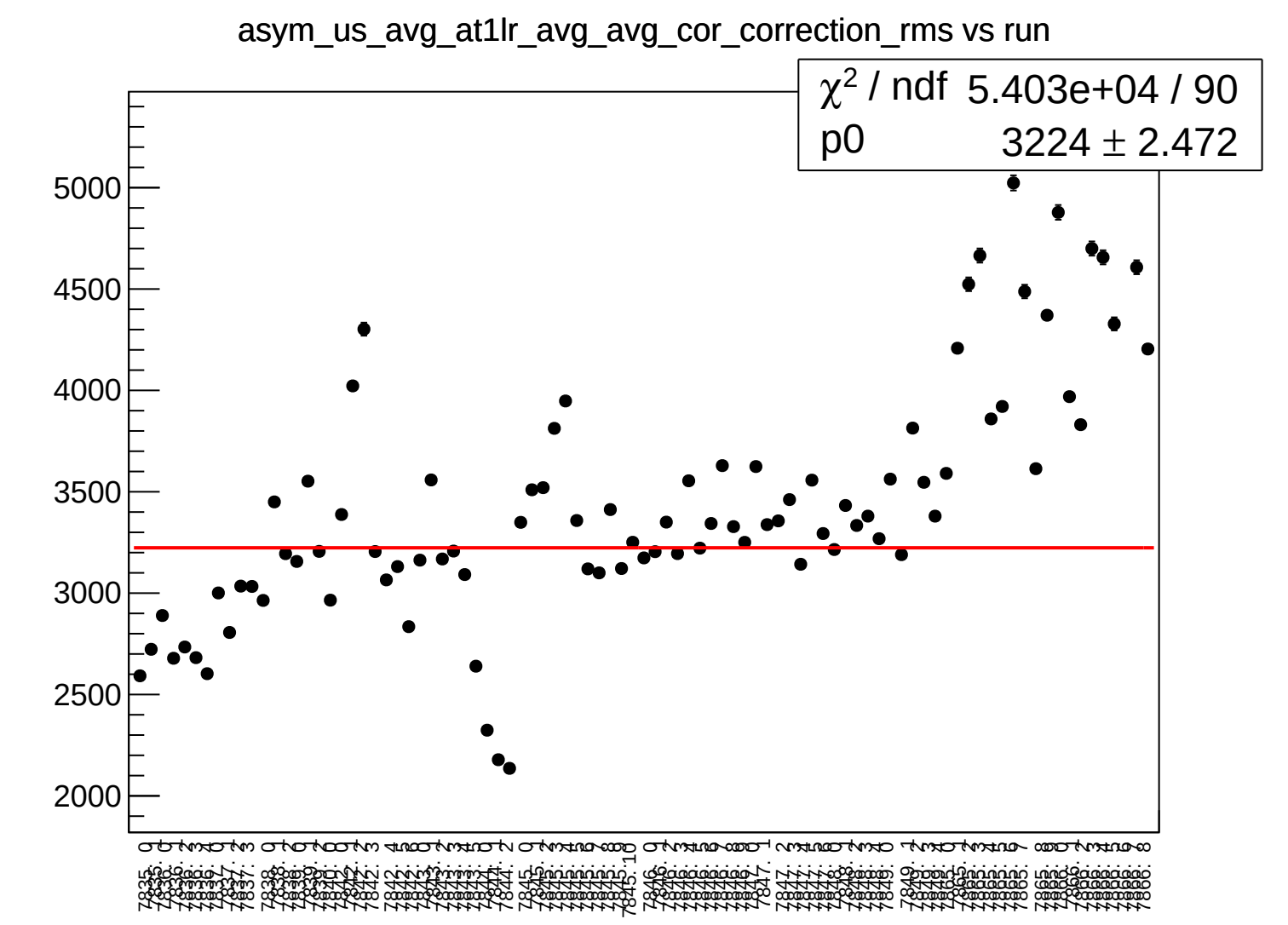

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 105.4 / 90
p0 5562 ± 2373
pull
Entries 91
Mean −353.8
Std Dev 0

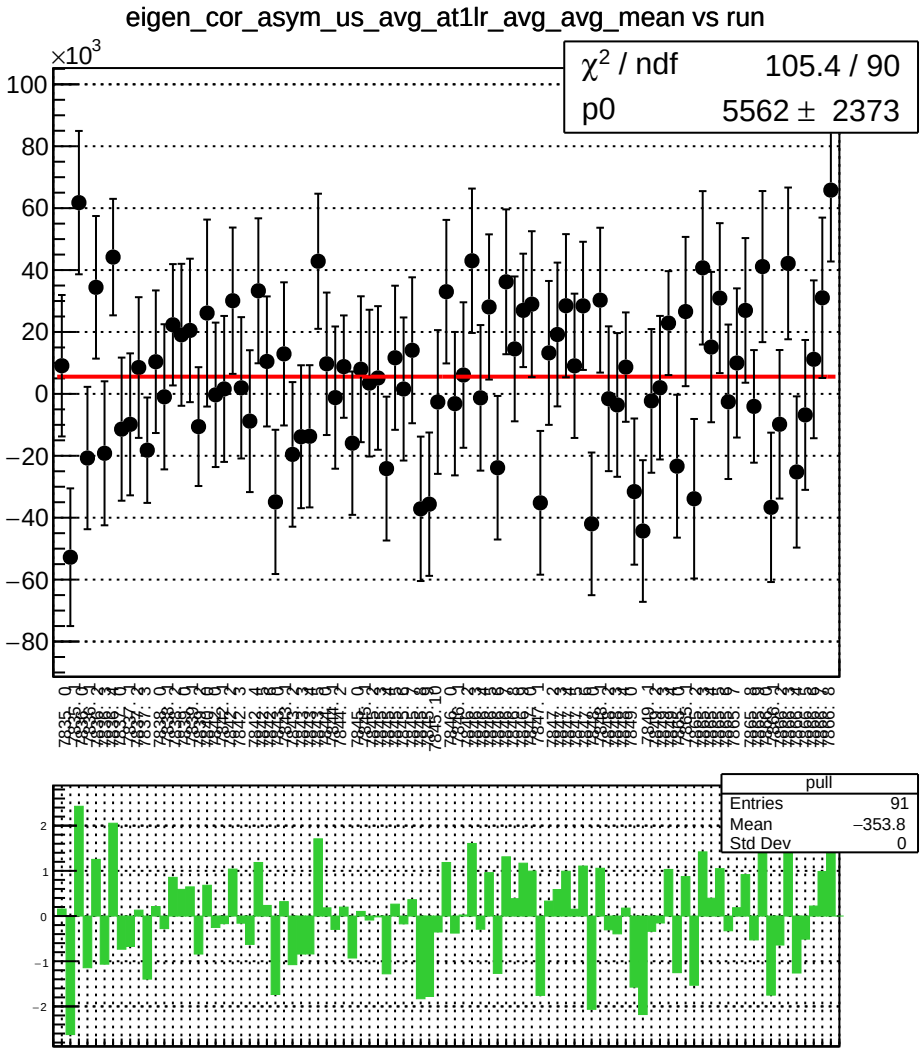

pull1D
Entries 91
Mean −0.004847
Std Dev 1.076

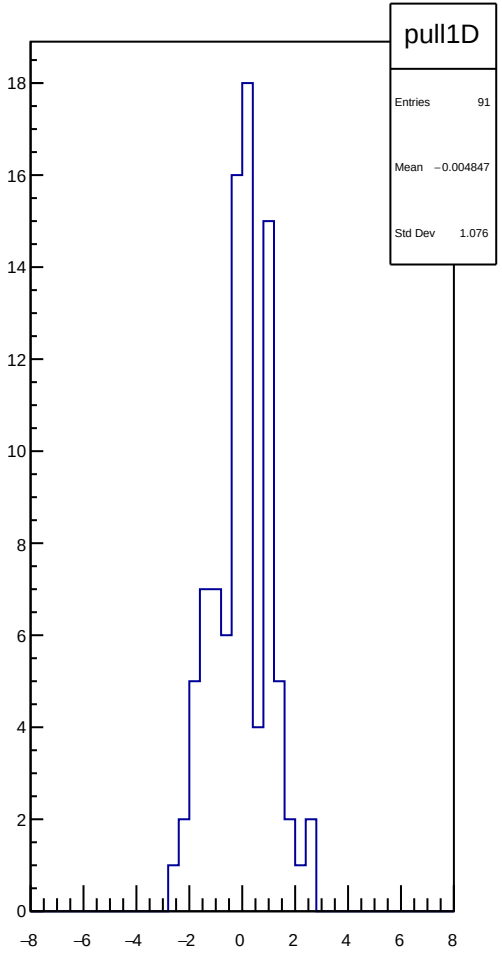

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1117 / 90
p0 2222 ± 1.678
2500
2450
2400
2350
2300
2250
2200
2150

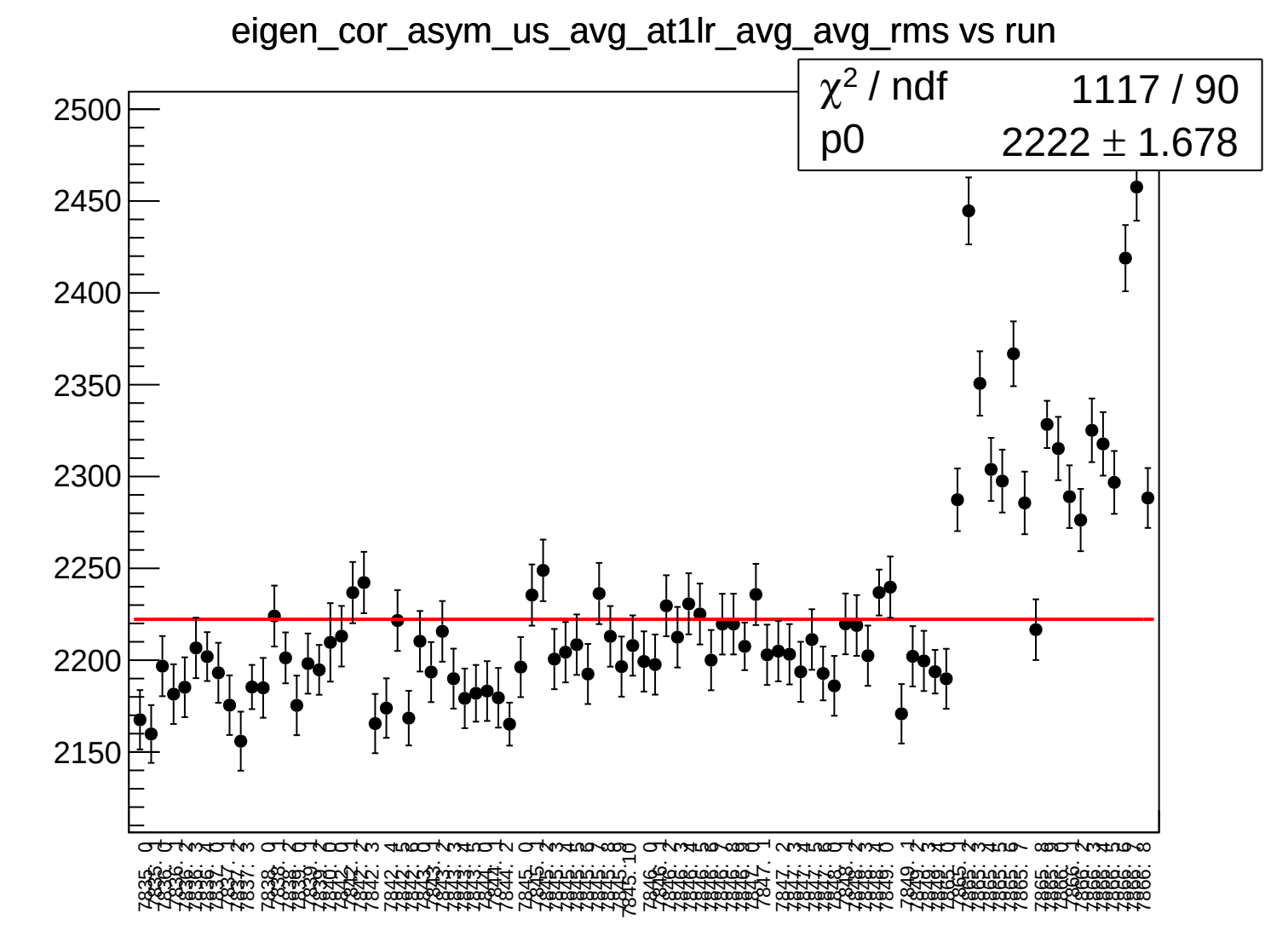

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 104.9 / 90
p0 −6811 ± 3495
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −147.8
Std Dev 0
2
1
0
−1
−2

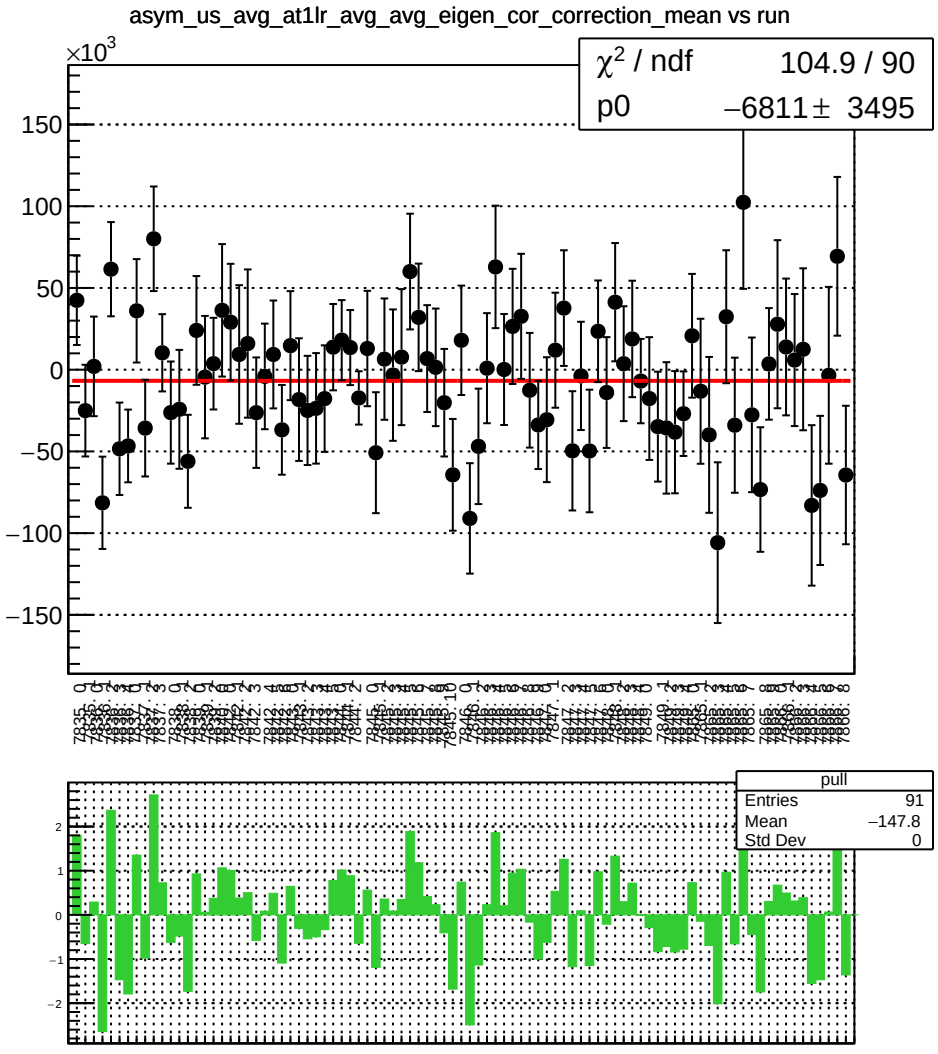

pull1D
Entries 91
Mean 0.01309
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

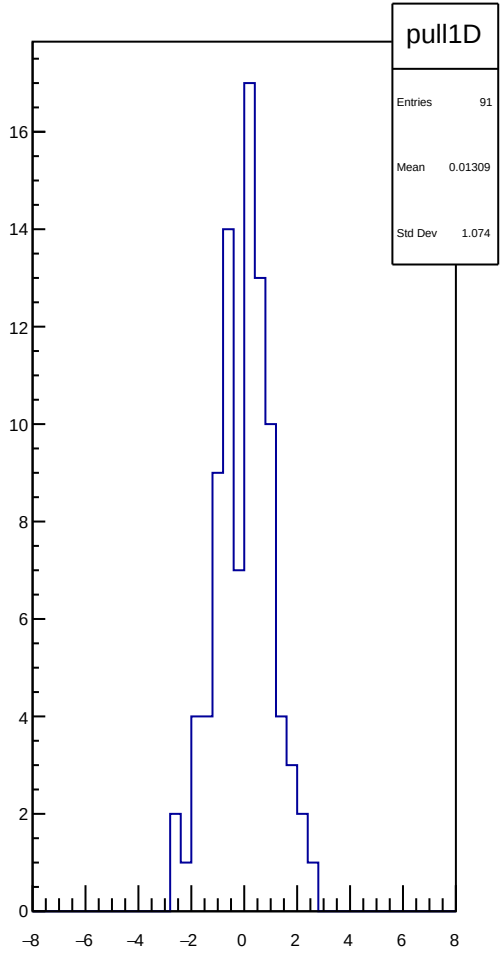

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5.403e+04 / 90
p0 3224 ± 2.472
5000
4500
4000
3500
3000
2500
2000

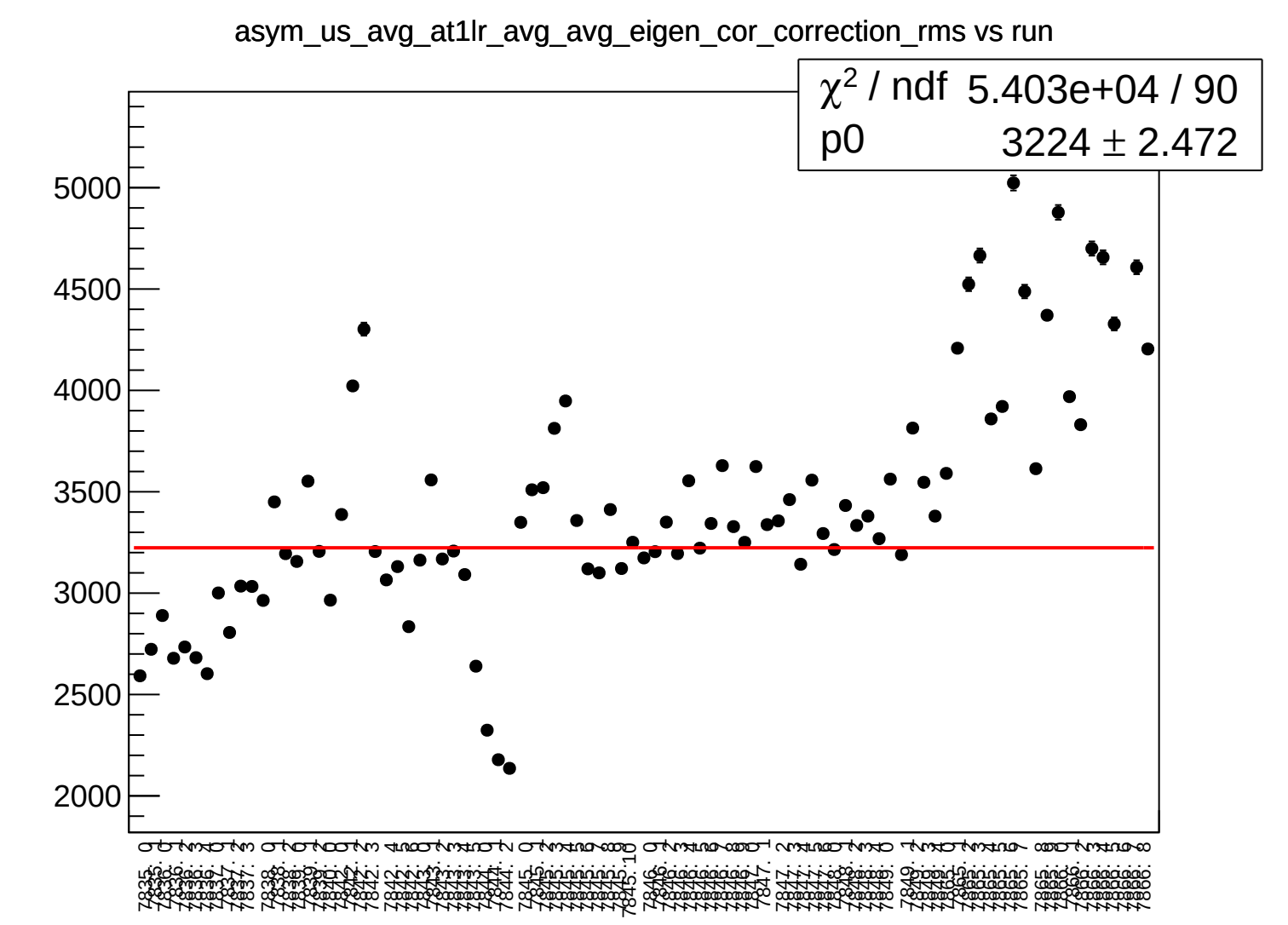

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 105.4 / 90
p0 5562 ± 2373
pull
Entries 91
Mean −353.8
Std Dev 0

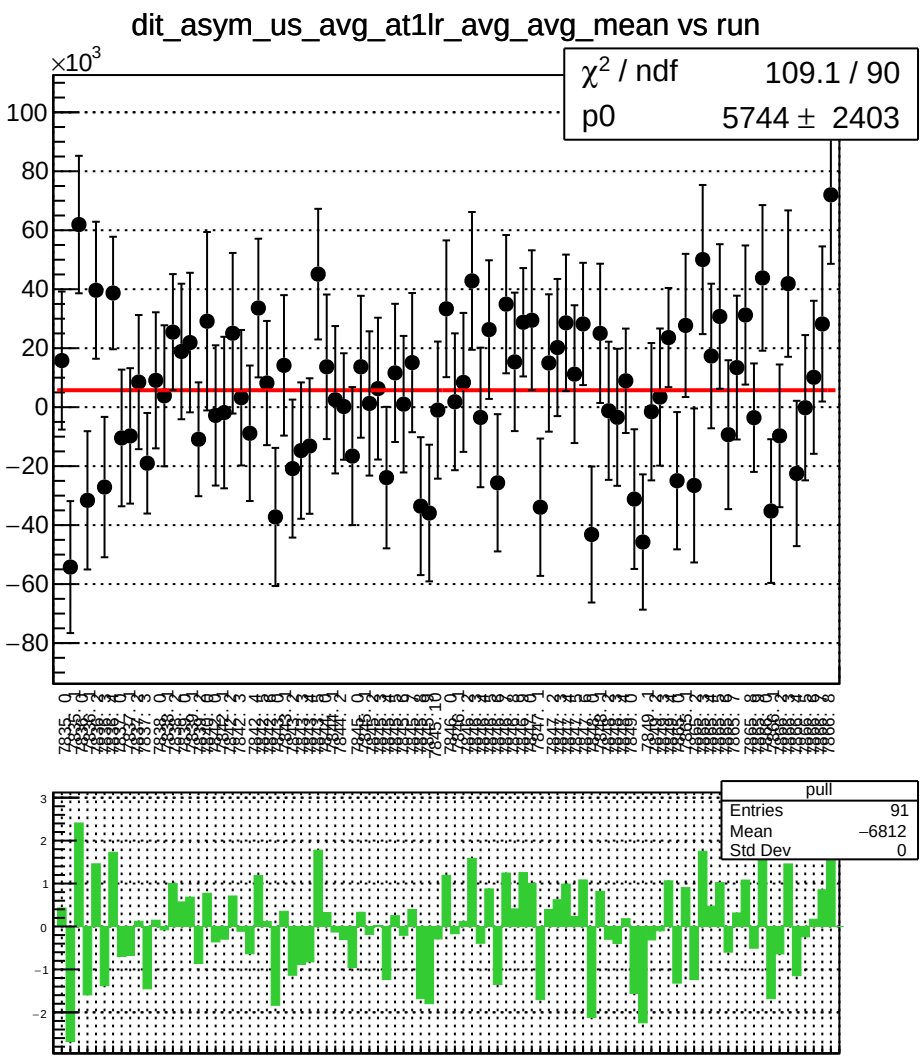

pull1D
Entries 91
Mean −0.004847
Std Dev 1.076

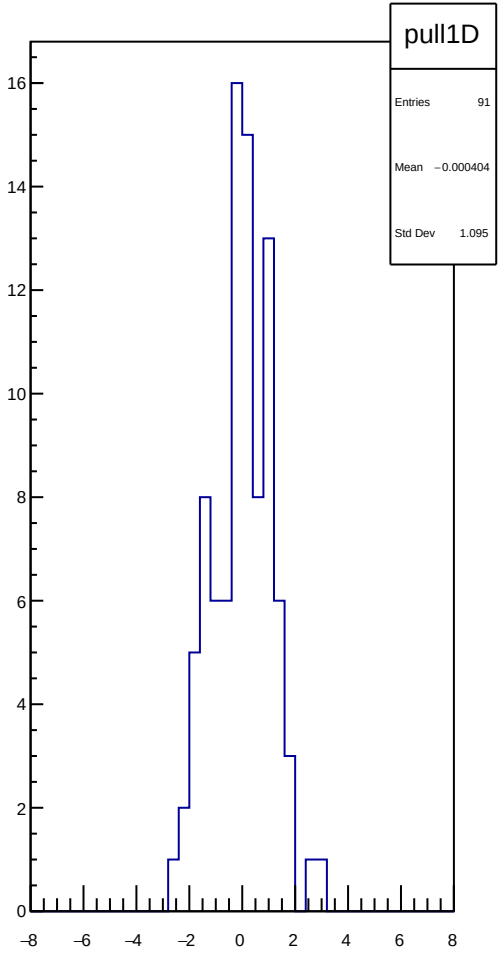

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1117 / 90
p0 2222 ± 1.678
2500
2450
2400
2350
2300
2250
2200
2150

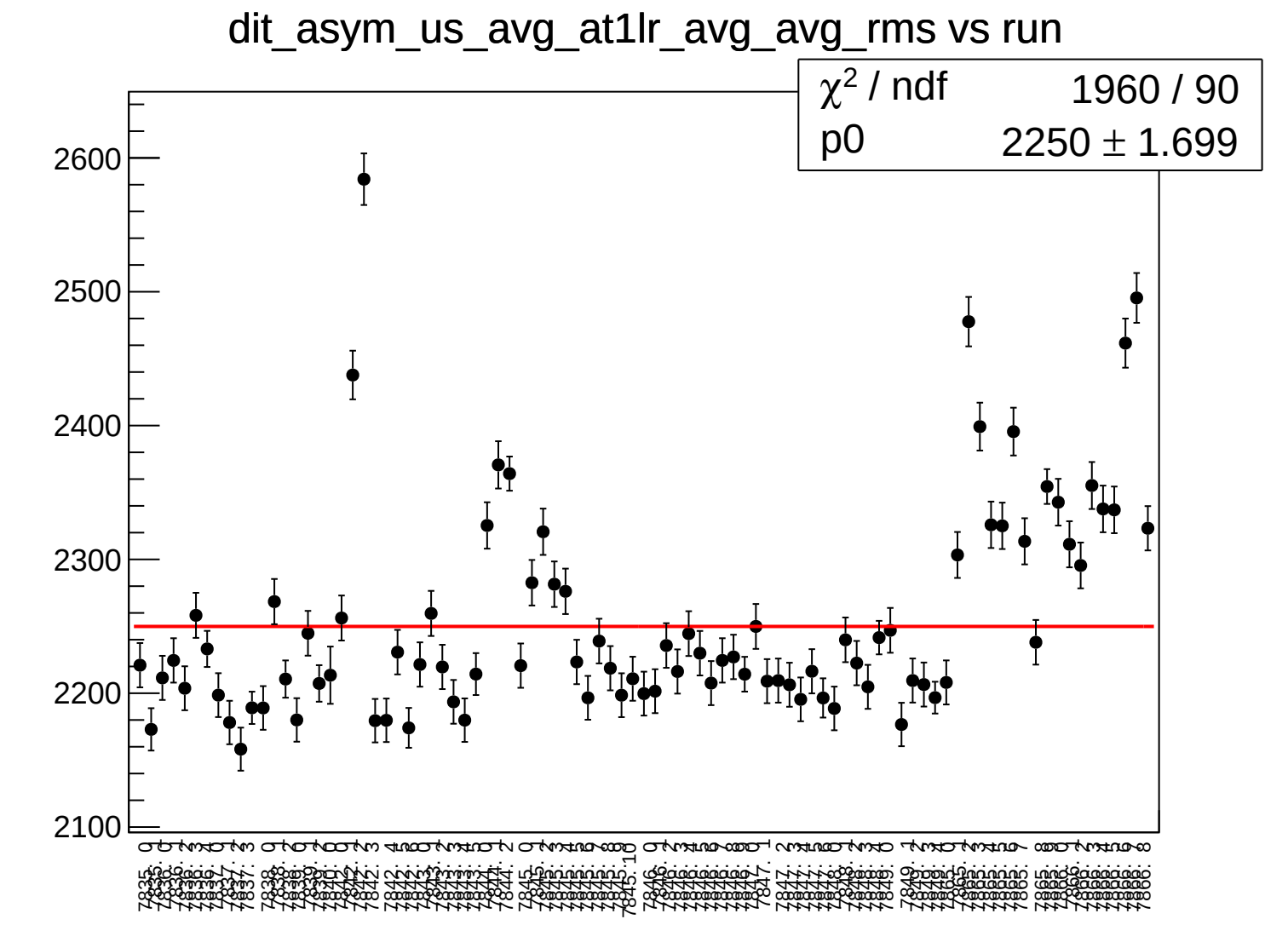

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.9 / 90
p0 −6811 ± 3495
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −147.8
Std Dev 0
2
1
0
−1
−2

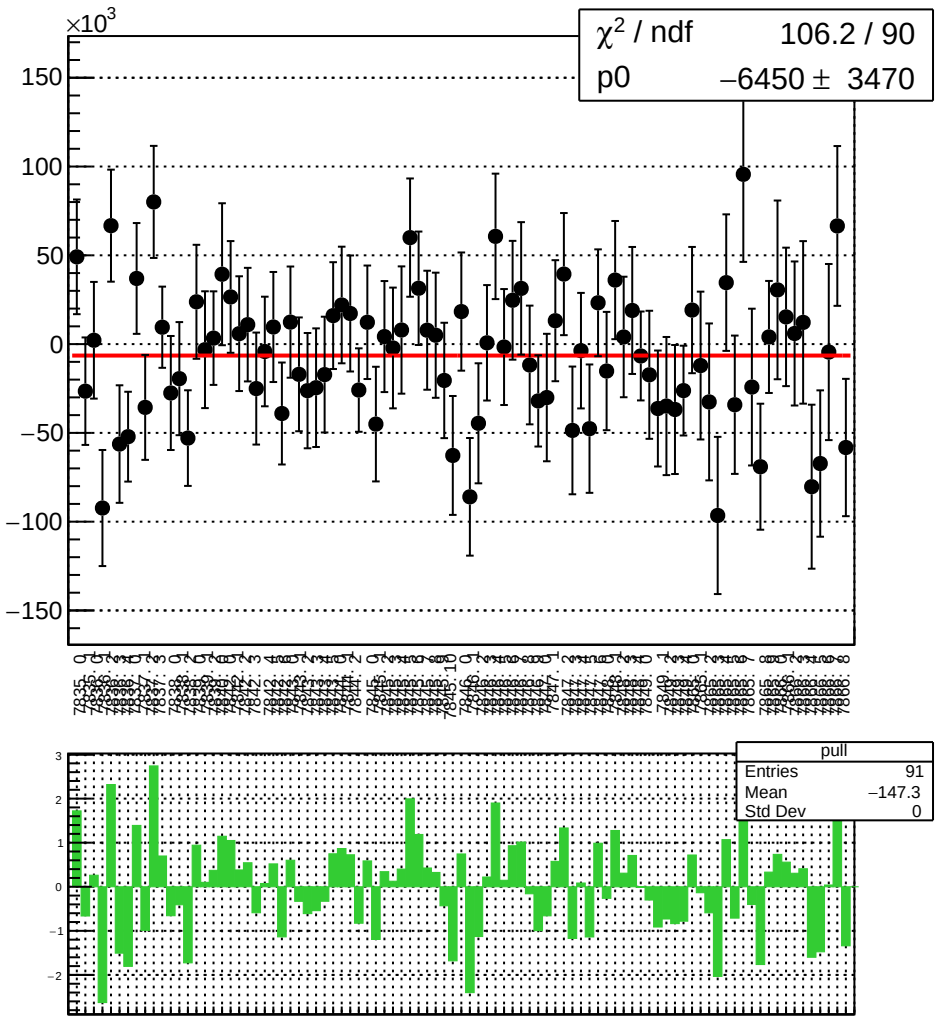

pull1D
Entries 91
Mean 0.01309
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

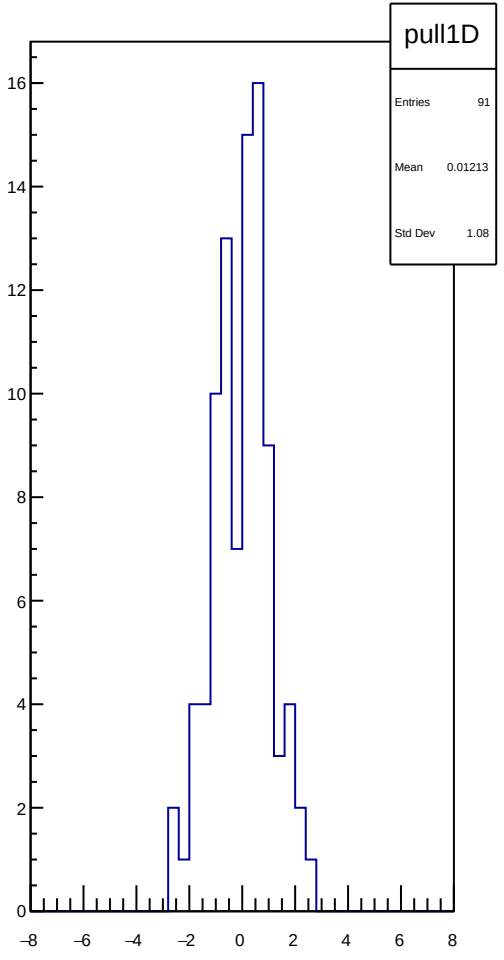

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.403e+04 / 90
p0 3224 ± 2.472
5000
4500
4000
3500
3000
2500
2000

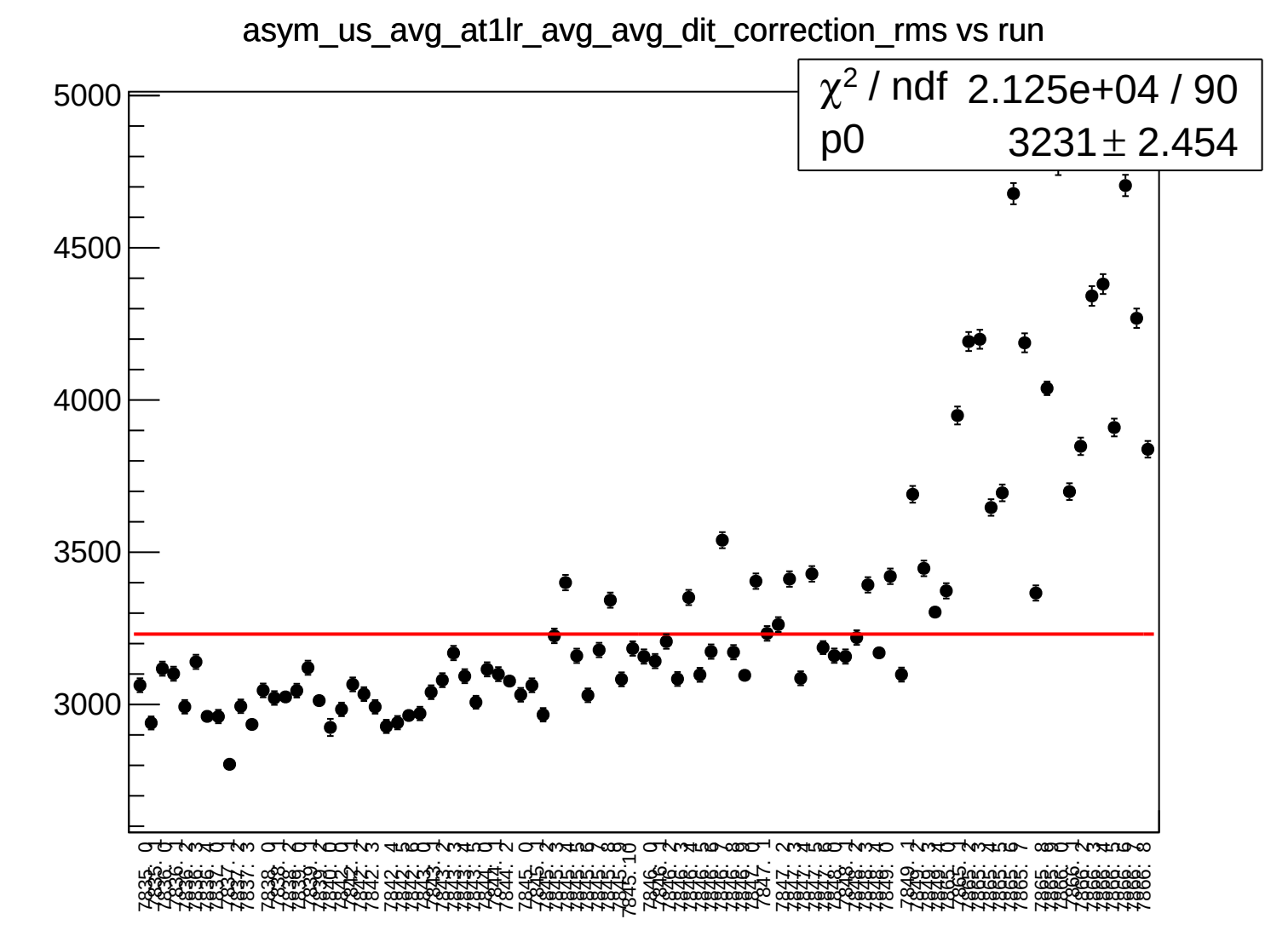

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ^2 / ndf 109.1 / 90
p0 5744 ± 2403
×10^3
pull
Entries 91
Mean −6812
Std Dev 0

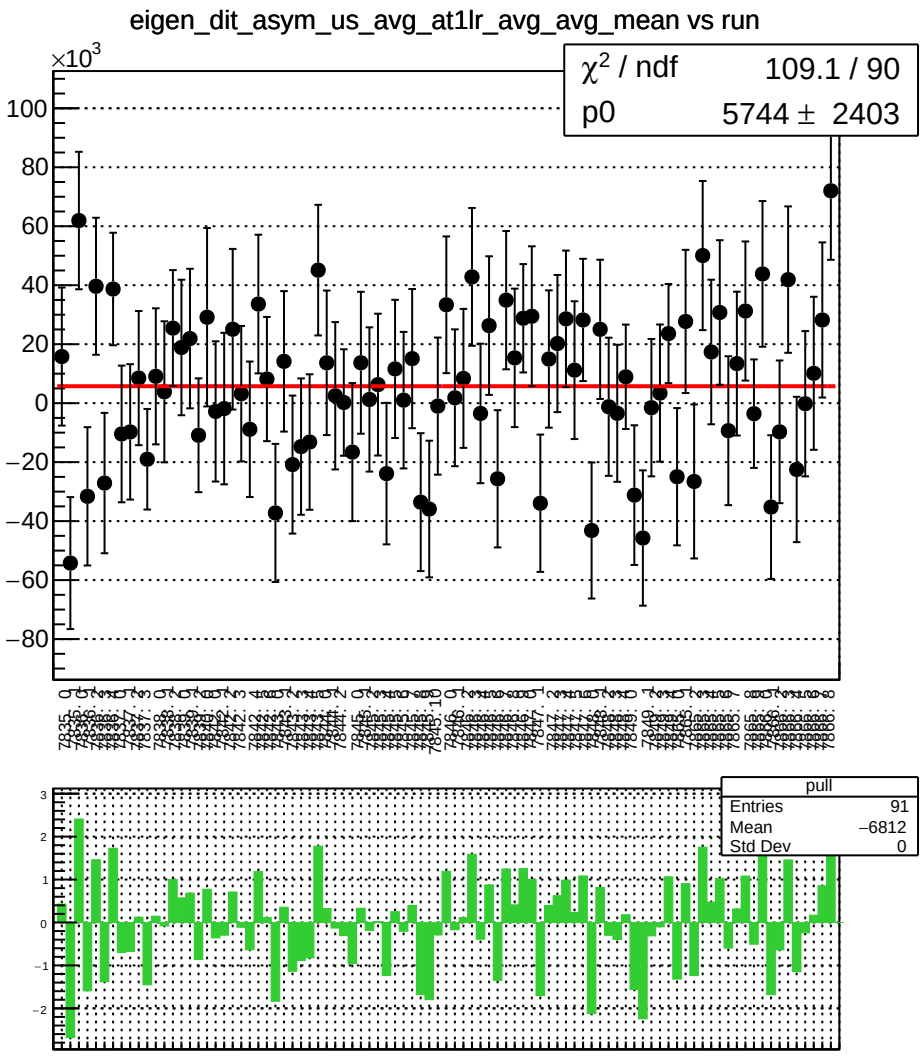

pull1D
Entries 91
Mean −0.000404
Std Dev 1.095

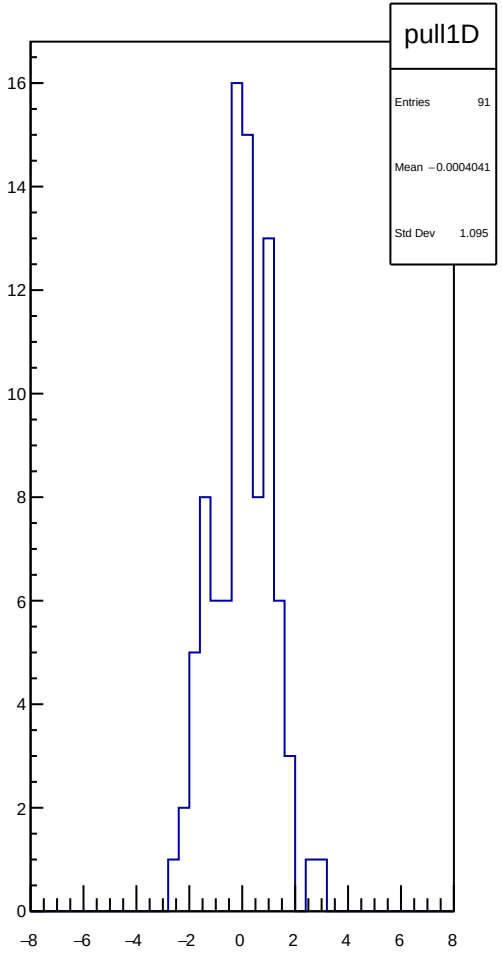

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1960 / 90
p0 2250 ± 1.699
2600
2500
2400
2300
2200
2100

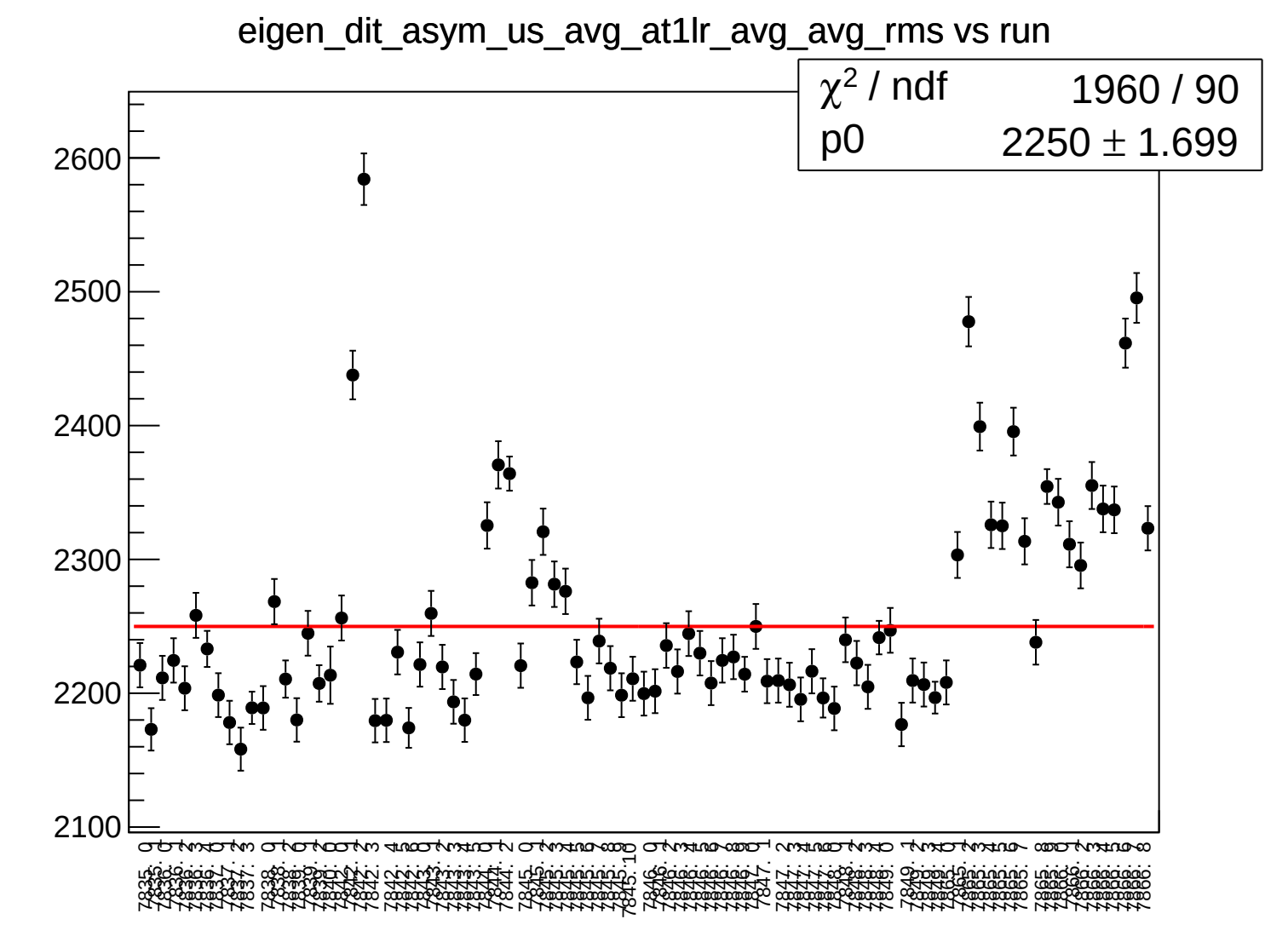

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 106.2 / 90
p0 −6450 ± 3470
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −147.3
Std Dev 0
3
2
1
0
−1
−2

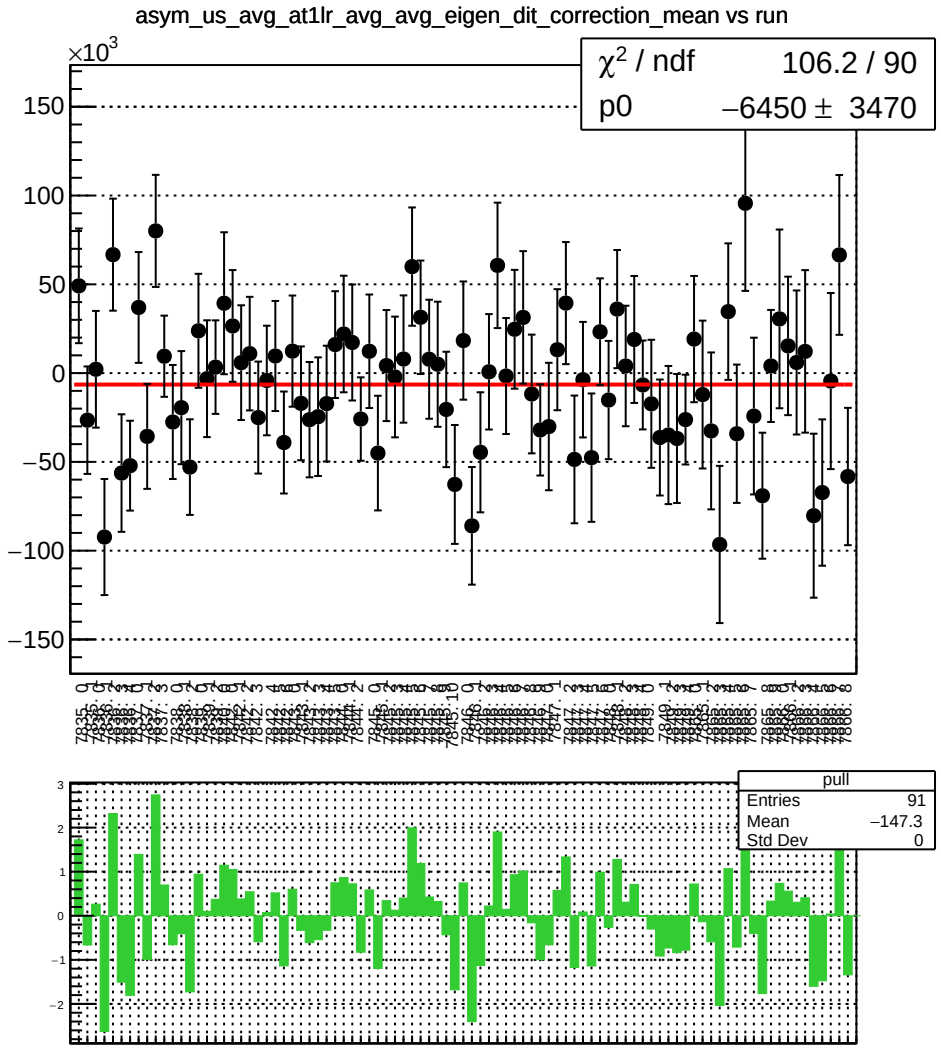

pull1D
Entries 91
Mean 0.01213
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

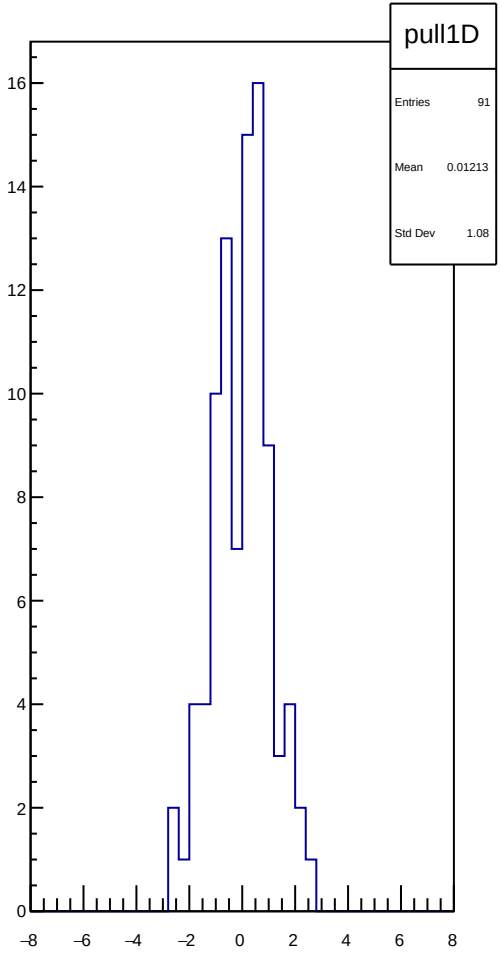

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.125e+04 / 90
p0 3231 ± 2.454
5000
4500
4000
3500
3000

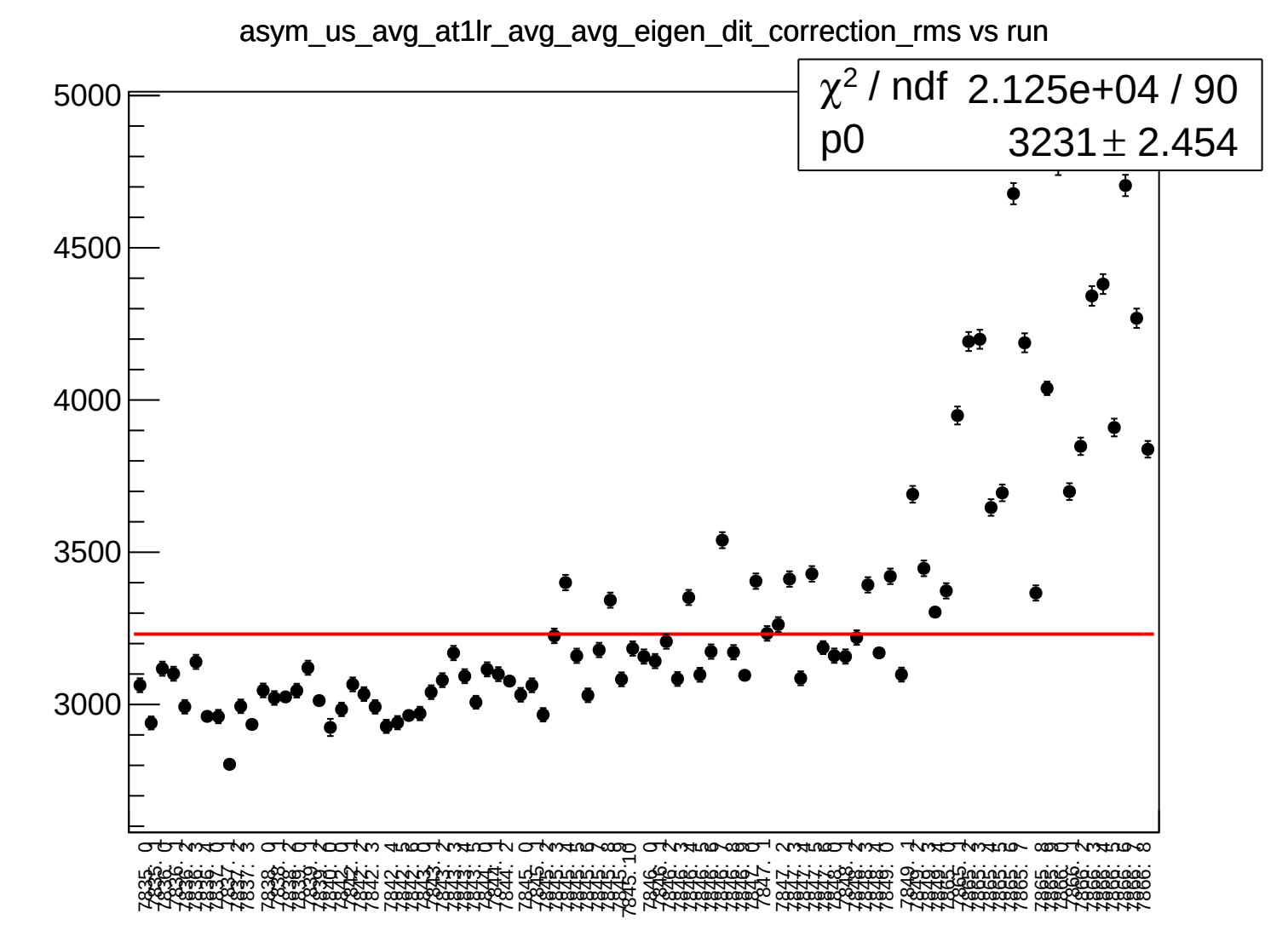

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 109.1 / 90
p0 5744 ± 2403
pull
Entries 91
Mean −6812
Std Dev 0

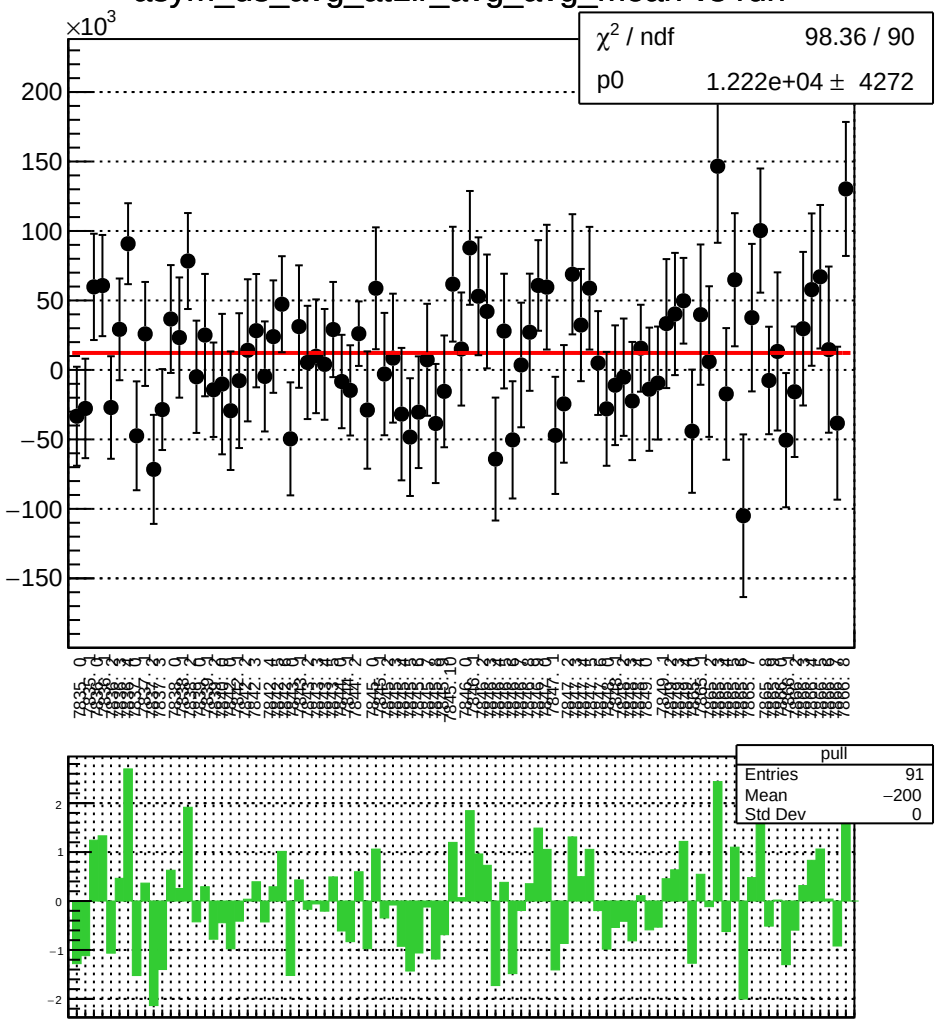

pull1D
Entries 91
Mean −0.0004041
Std Dev 1.095

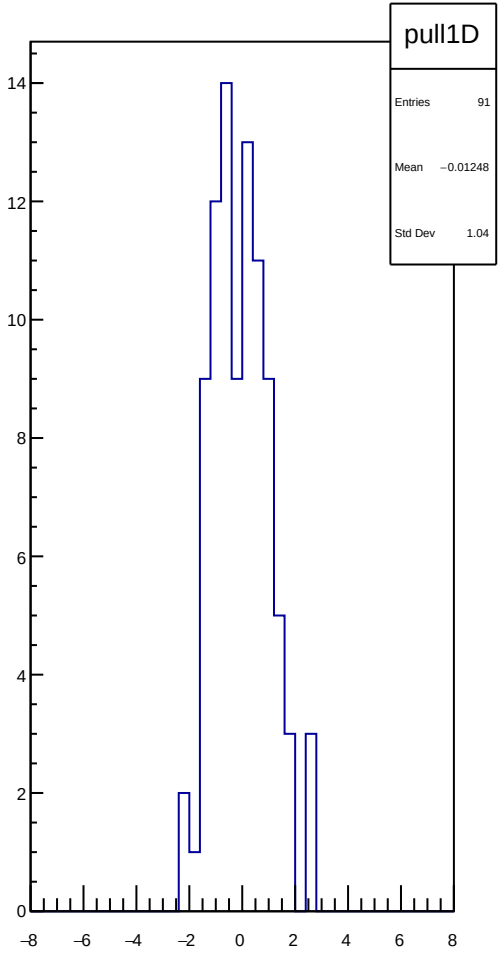

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1960 / 90
p0 2250 ± 1.699
2600
2500
2400
2300
2200
2100

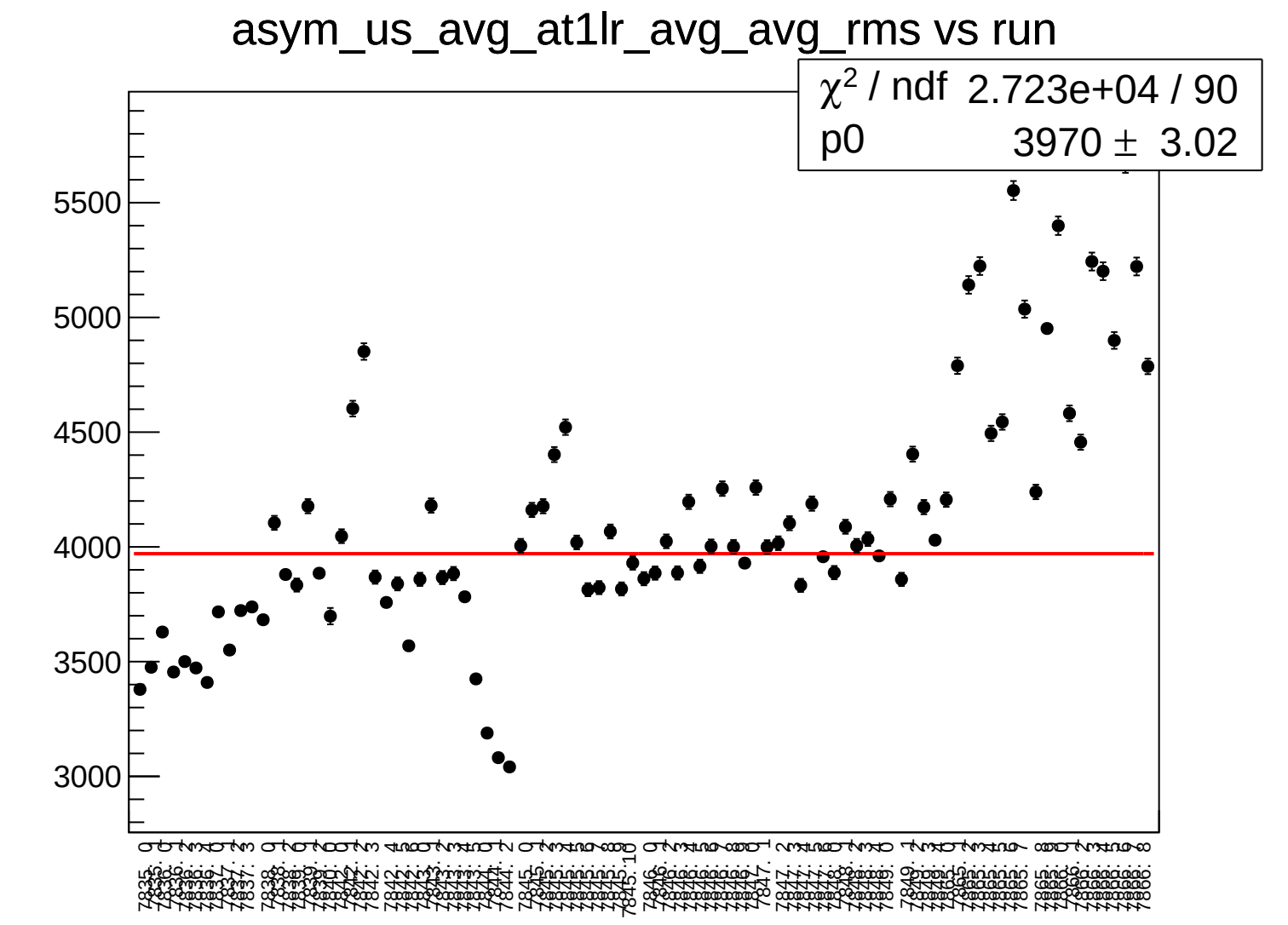

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.2 / 90
p0 −6450 ± 3470
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −147.3
Std Dev 0
3
2
1
0
−1
−2

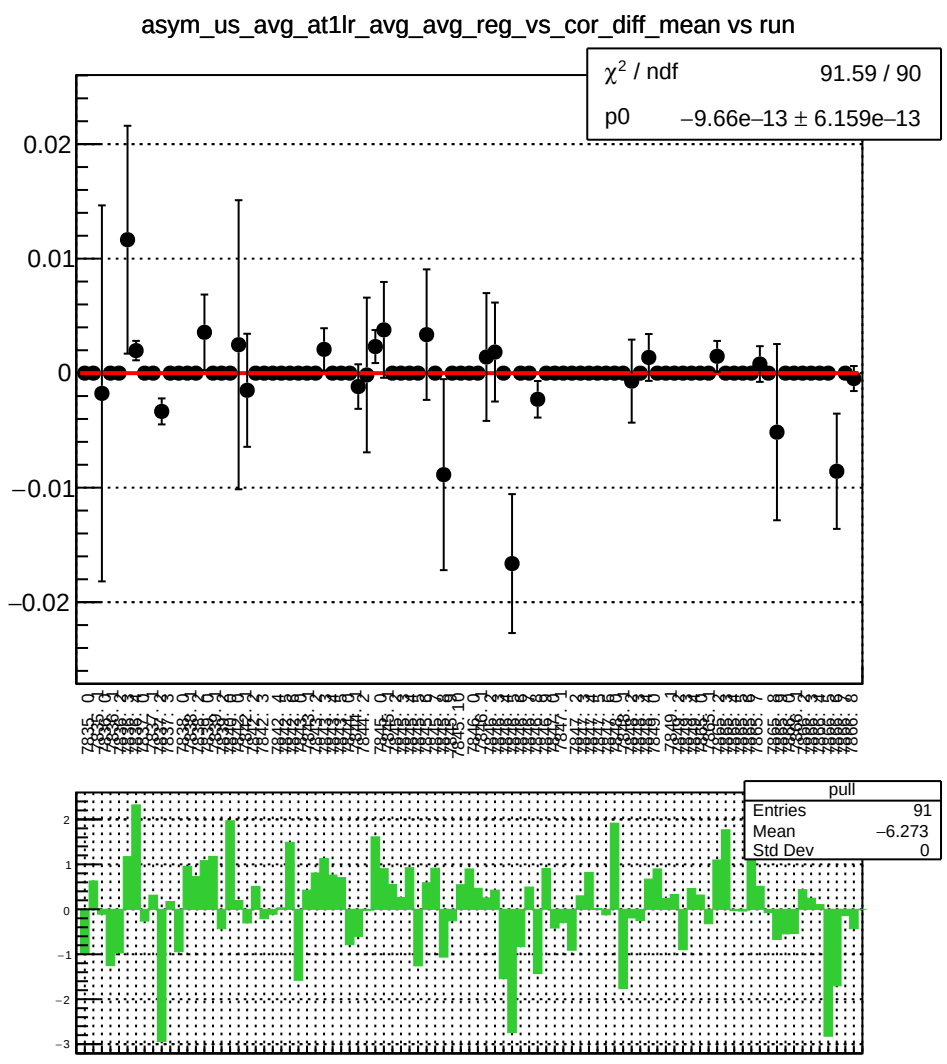

pull1D
Entries 91
Mean 0.01213
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

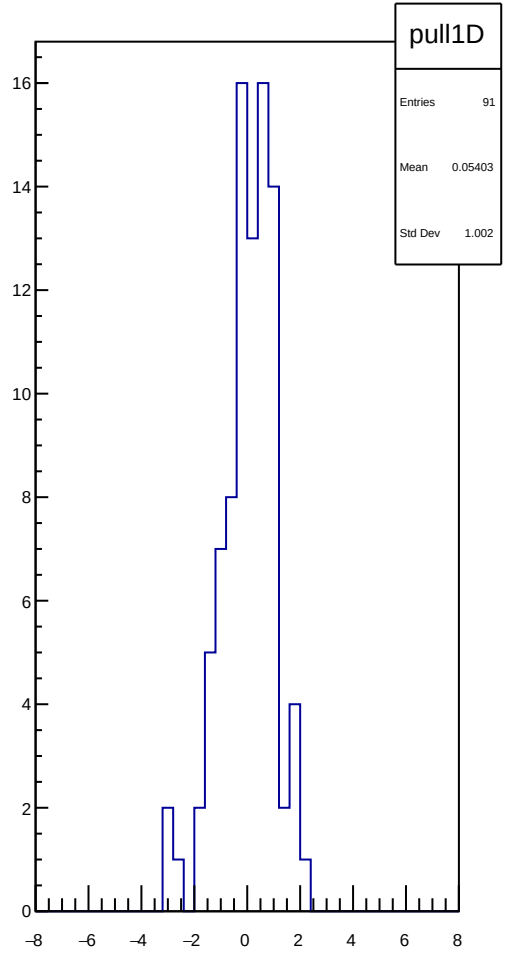

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.125e+04 / 90
p0 3231 ± 2.454
5000
4500
4000
3500
3000

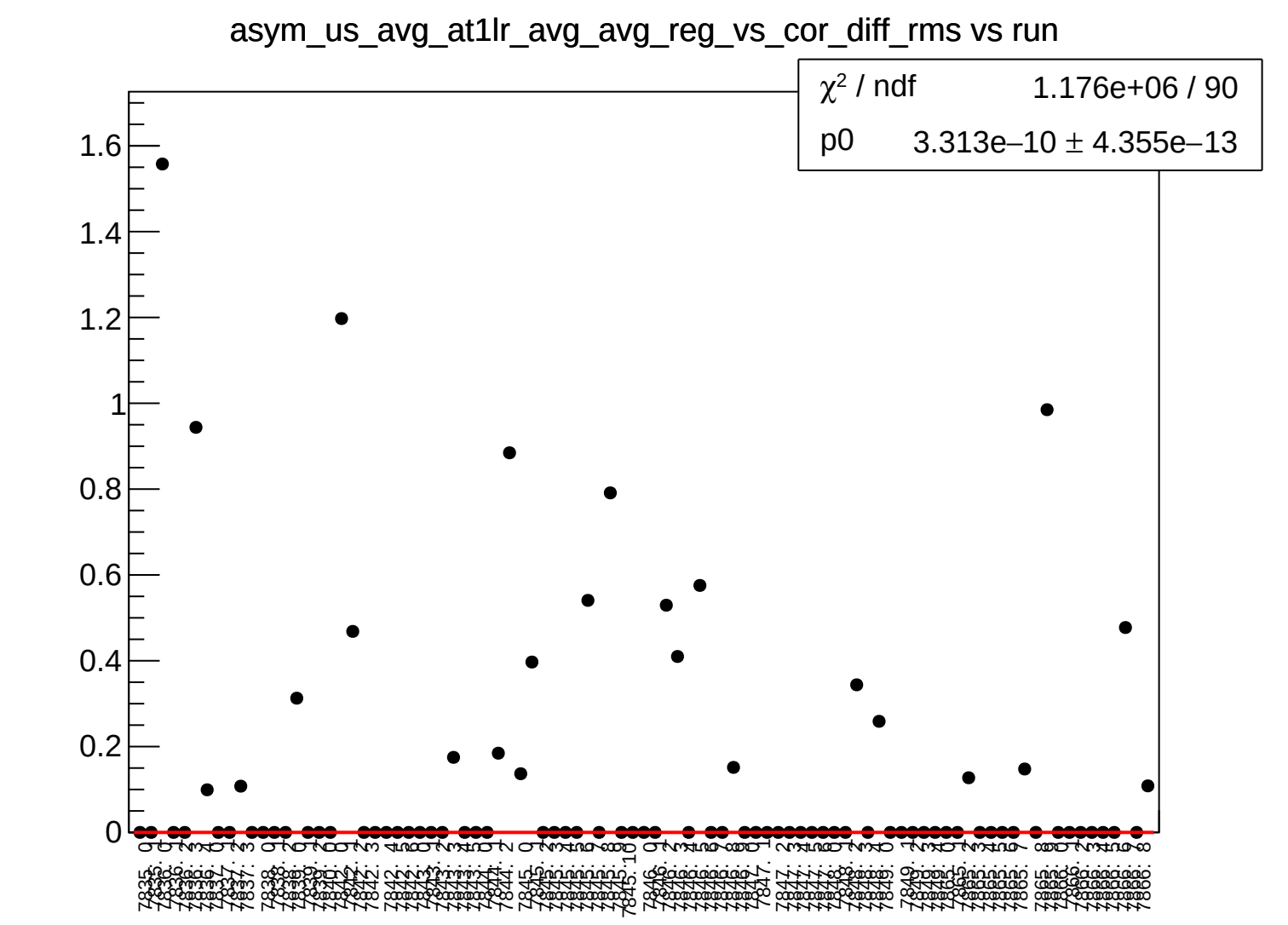

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 98.36 / 90
p0 1.222e+04 ± 4272
pull
Entries 91
Mean −200
Std Dev 0

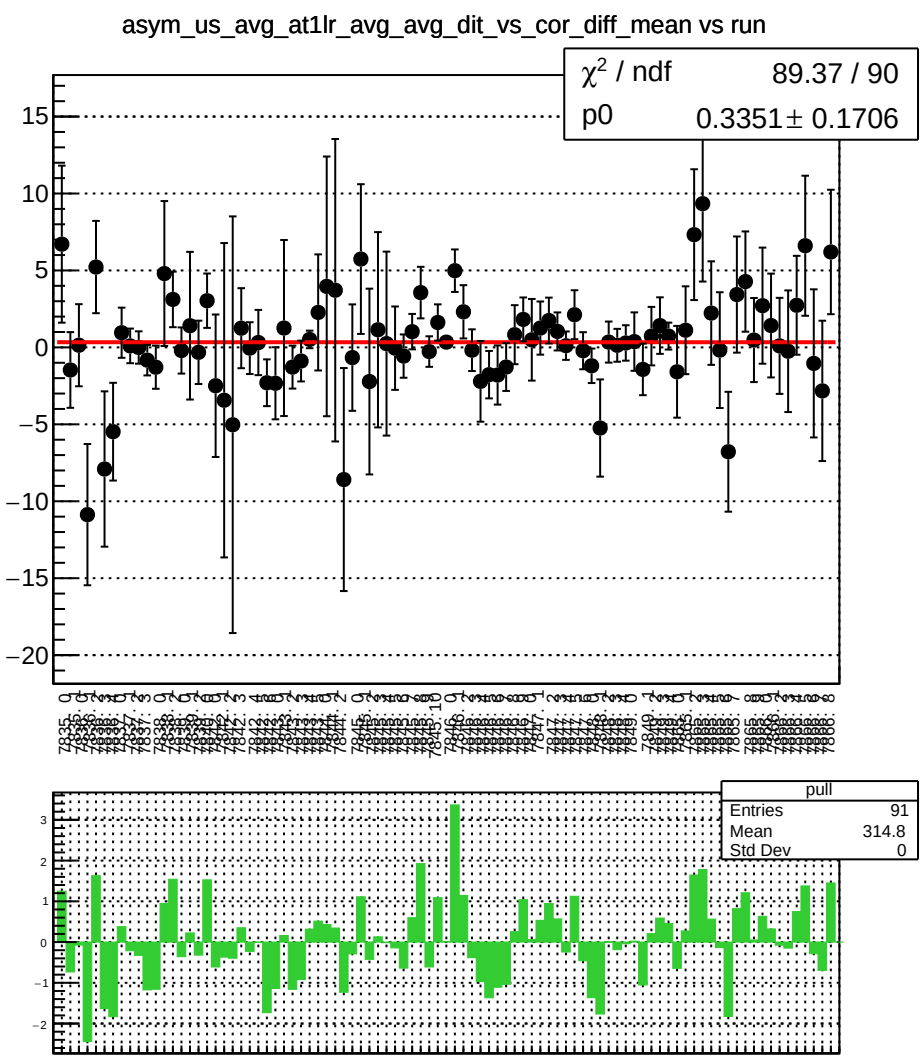

pull1D
Entries 91
Mean −0.01248
Std Dev 1.04

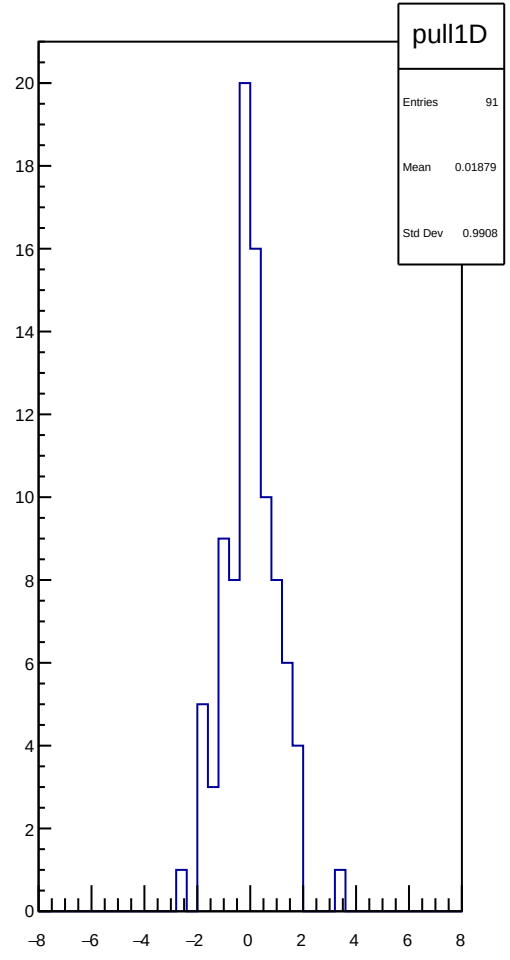

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2.723e+04 / 90
p0 3970 ± 3.02
5500
5000
4500
4000
3500
3000

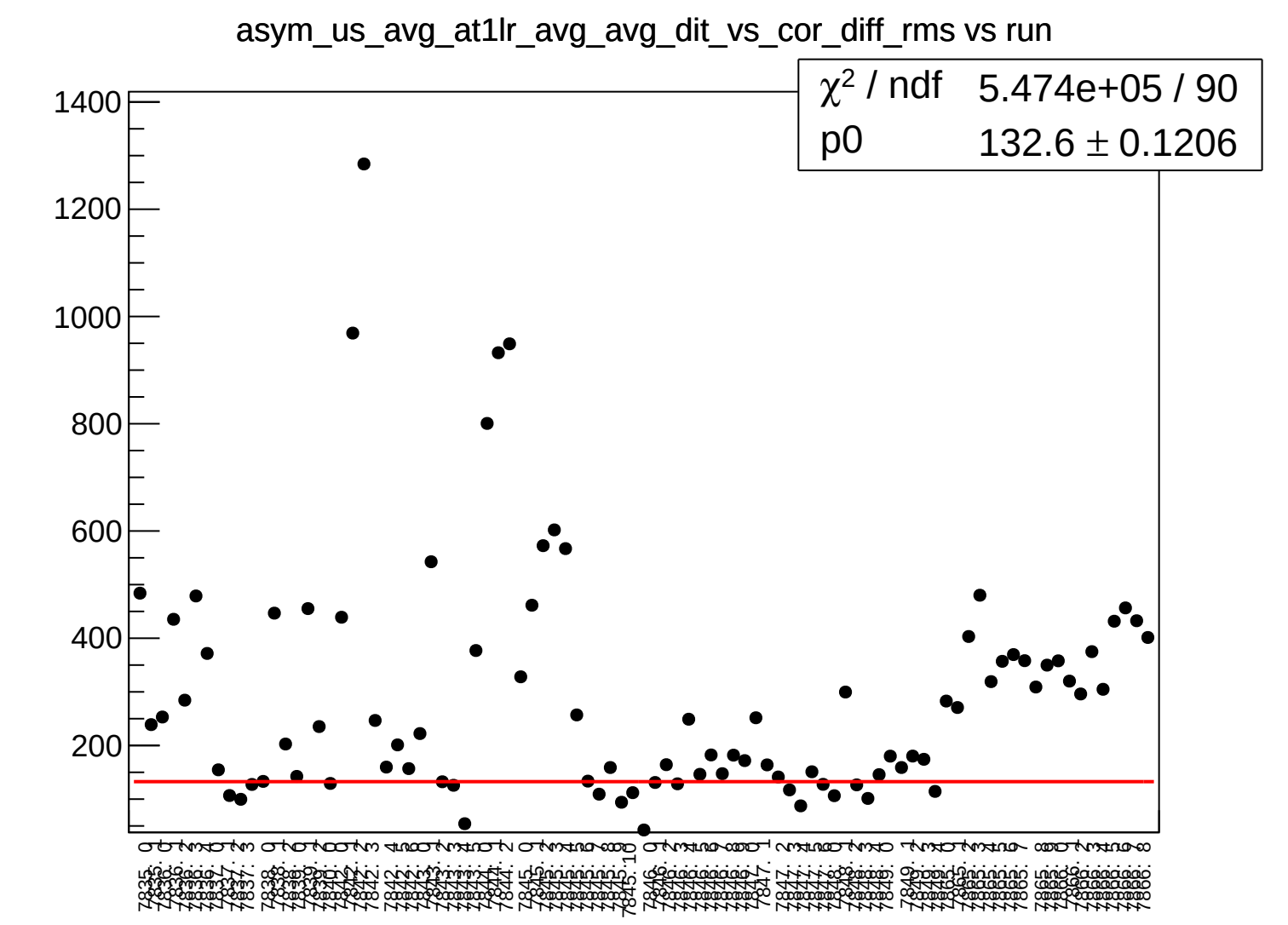

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.59 / 90
p0 −9.66e−13 ± 6.159e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean −6.273
Std Dev 0
2
1
0
−1
−2
−3

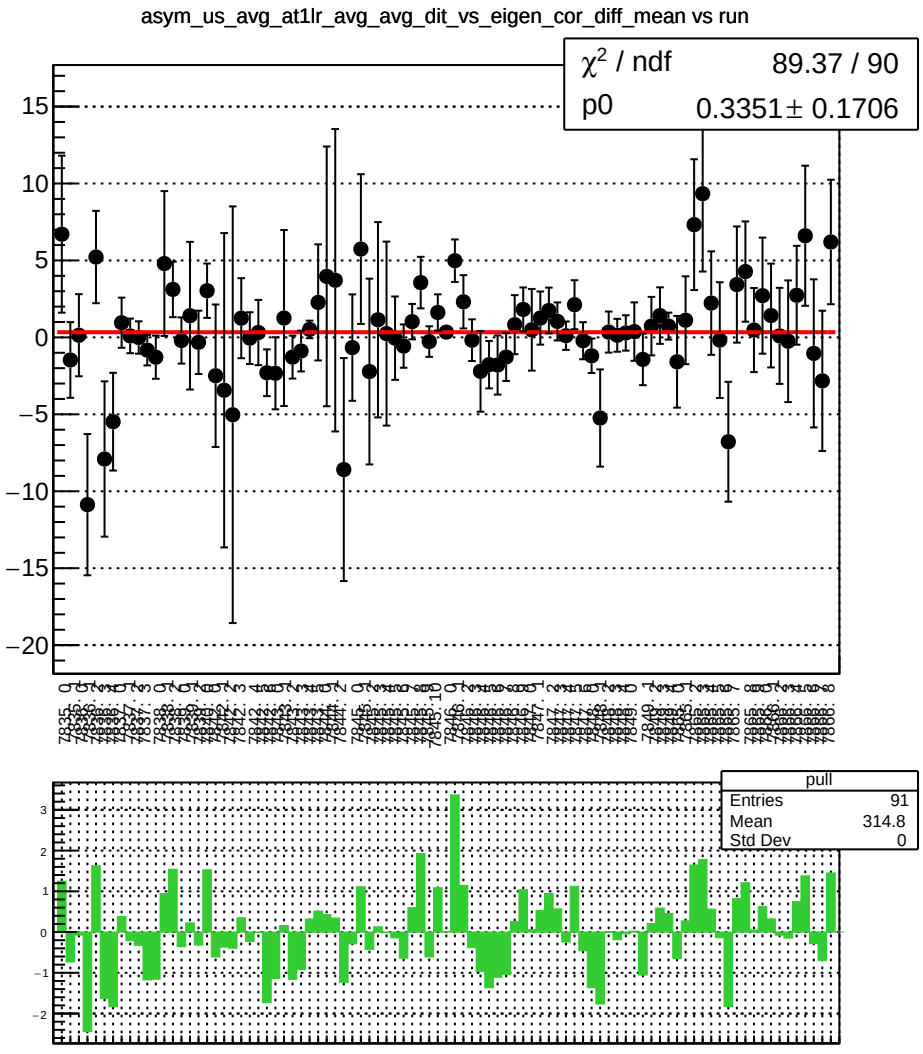

pull1D
Entries 91
Mean 0.05403
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

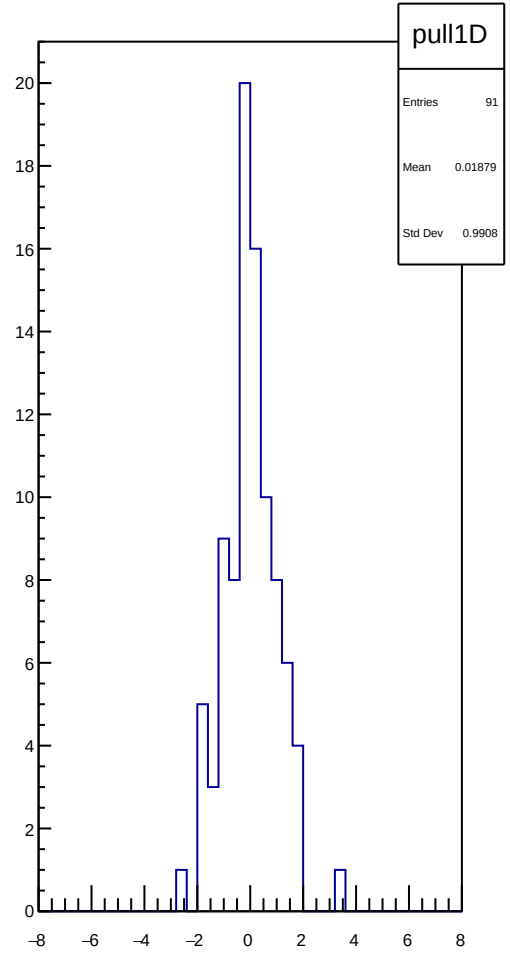

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.176e+06 / 90
p0 3.313e−10 ± 4.355e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

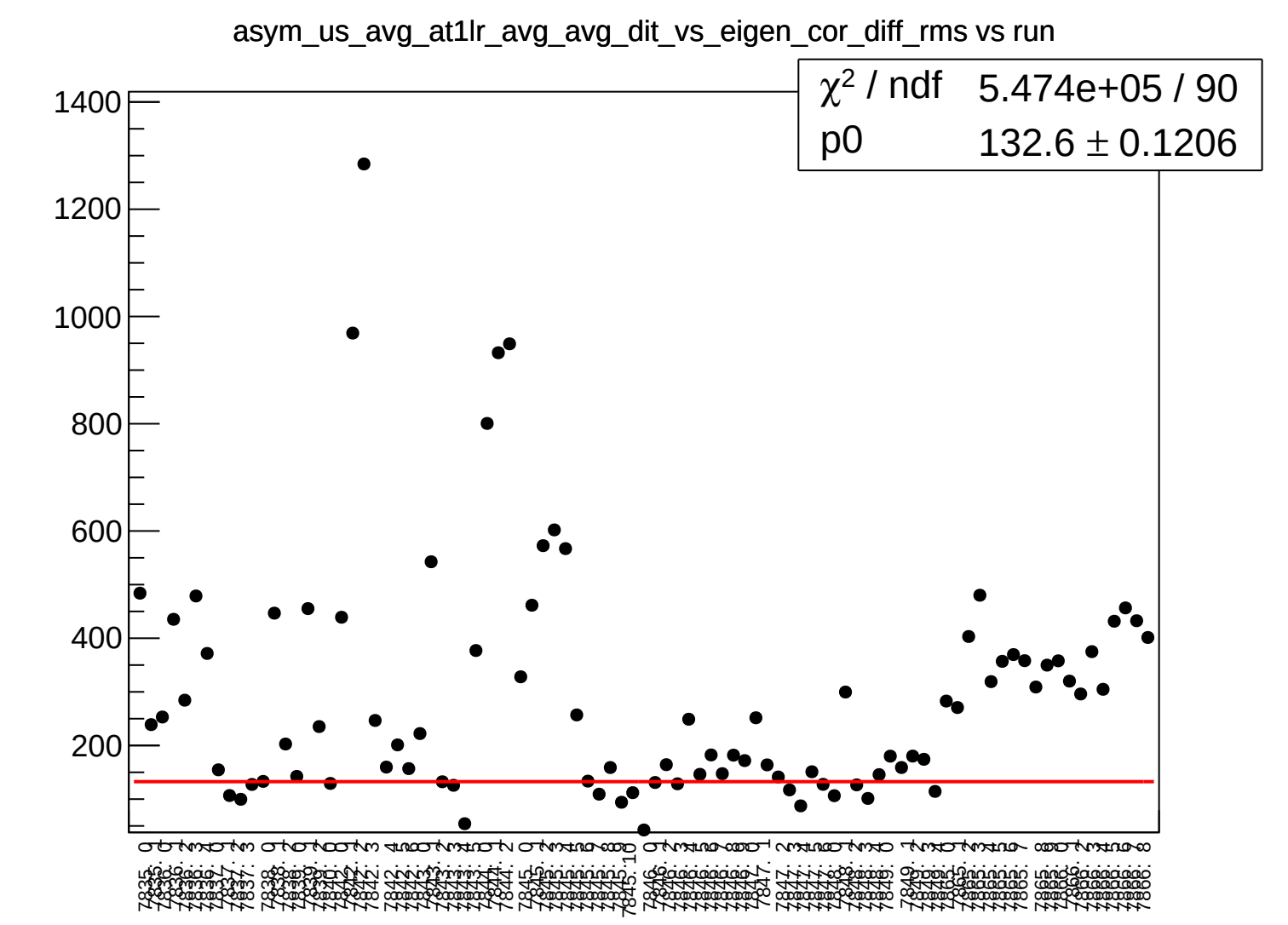

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.37 / 90
p0 0.3351 ± 0.1706
pull
Entries 91
Mean 314.8
Std Dev 0

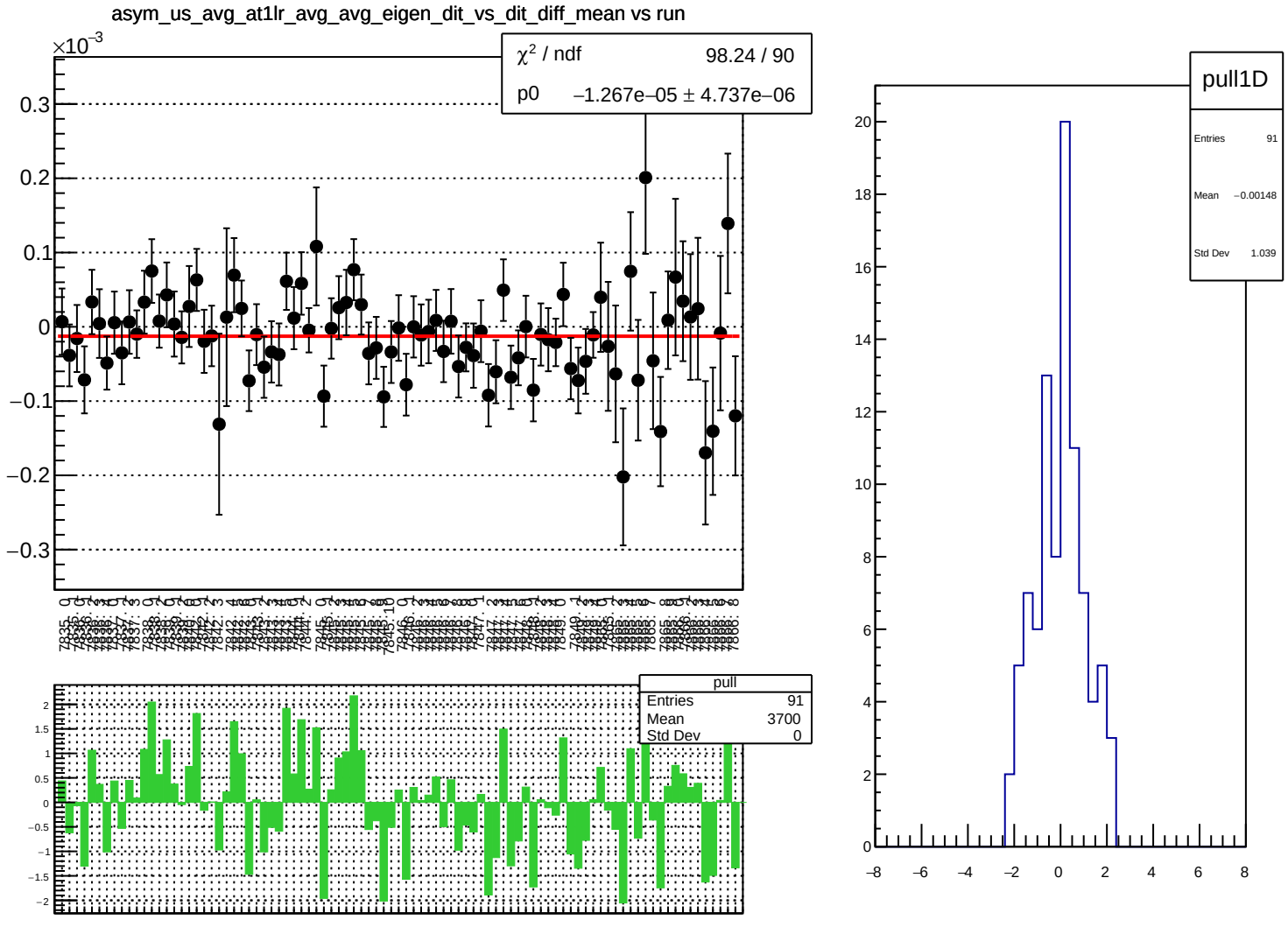

pull1D
Entries 91
Mean 0.01879
Std Dev 0.9908

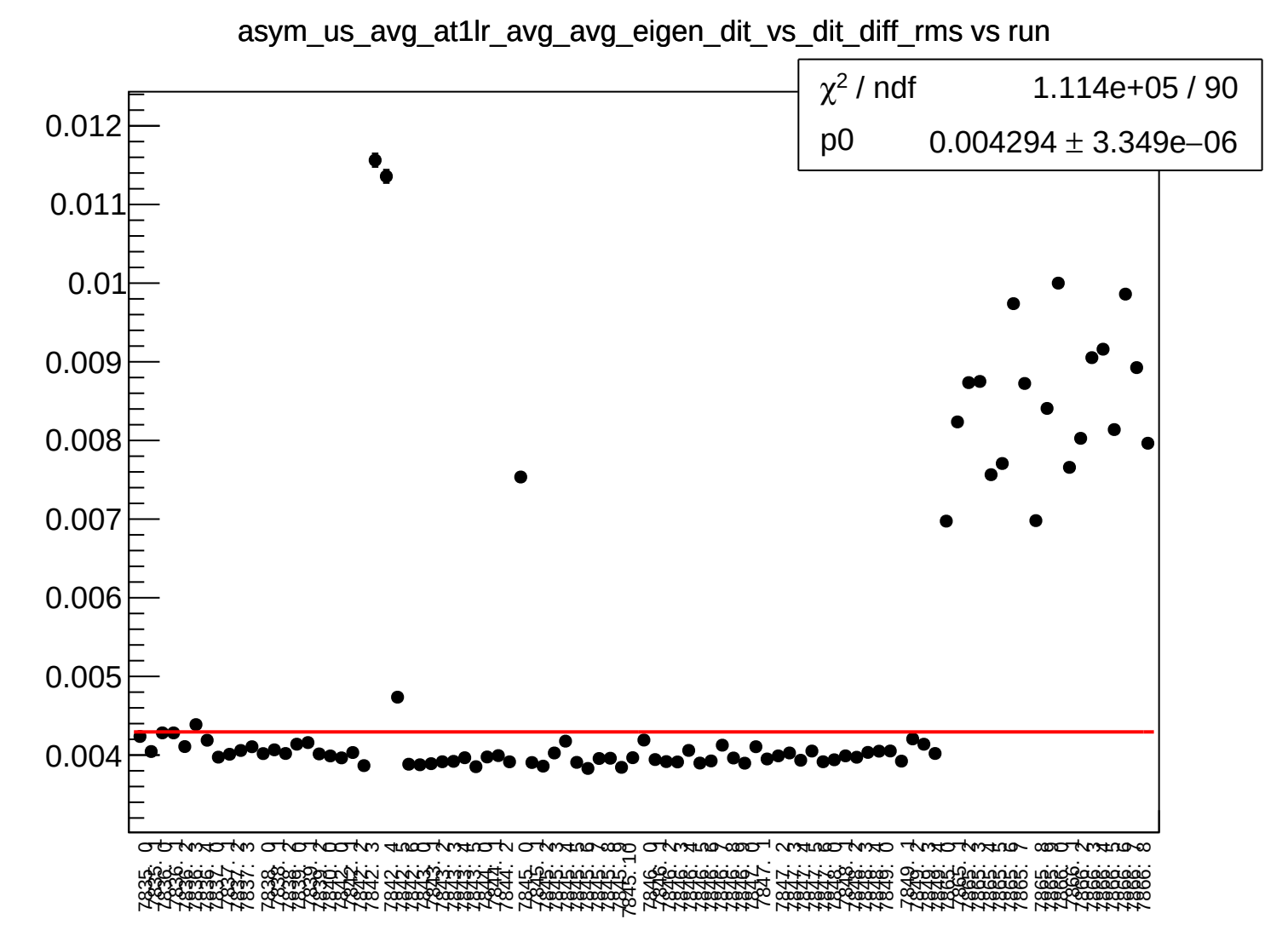

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.474e+05 / 90
p0 132.6 ± 0.1206
1400
1200
1000
800
600
400
200

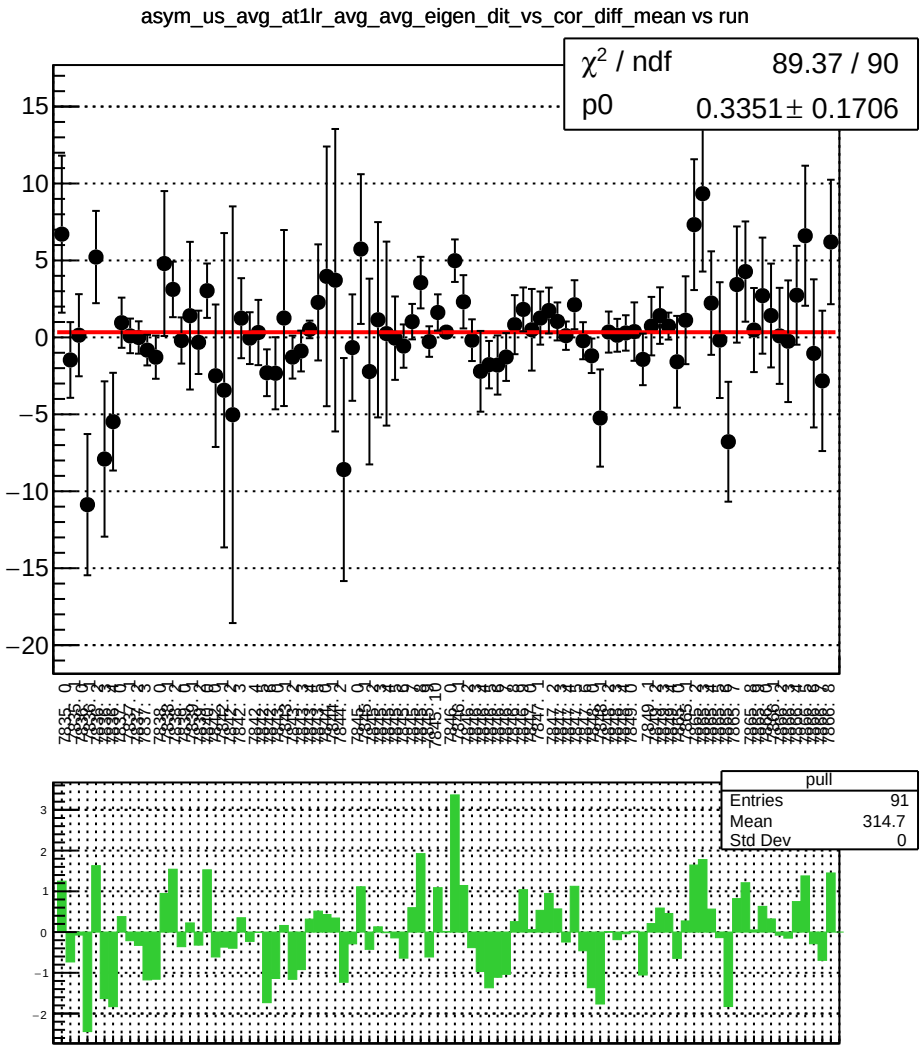

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.37 / 90
p0 0.3351 ± 0.1706
pull
Entries 91
Mean 314.8
Std Dev 0

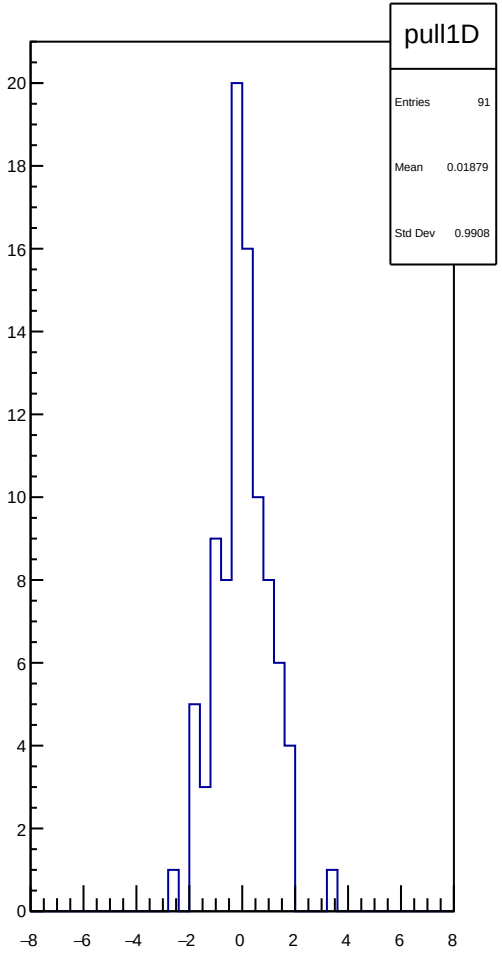

pull1D
Entries 91
Mean 0.01879
Std Dev 0.9908

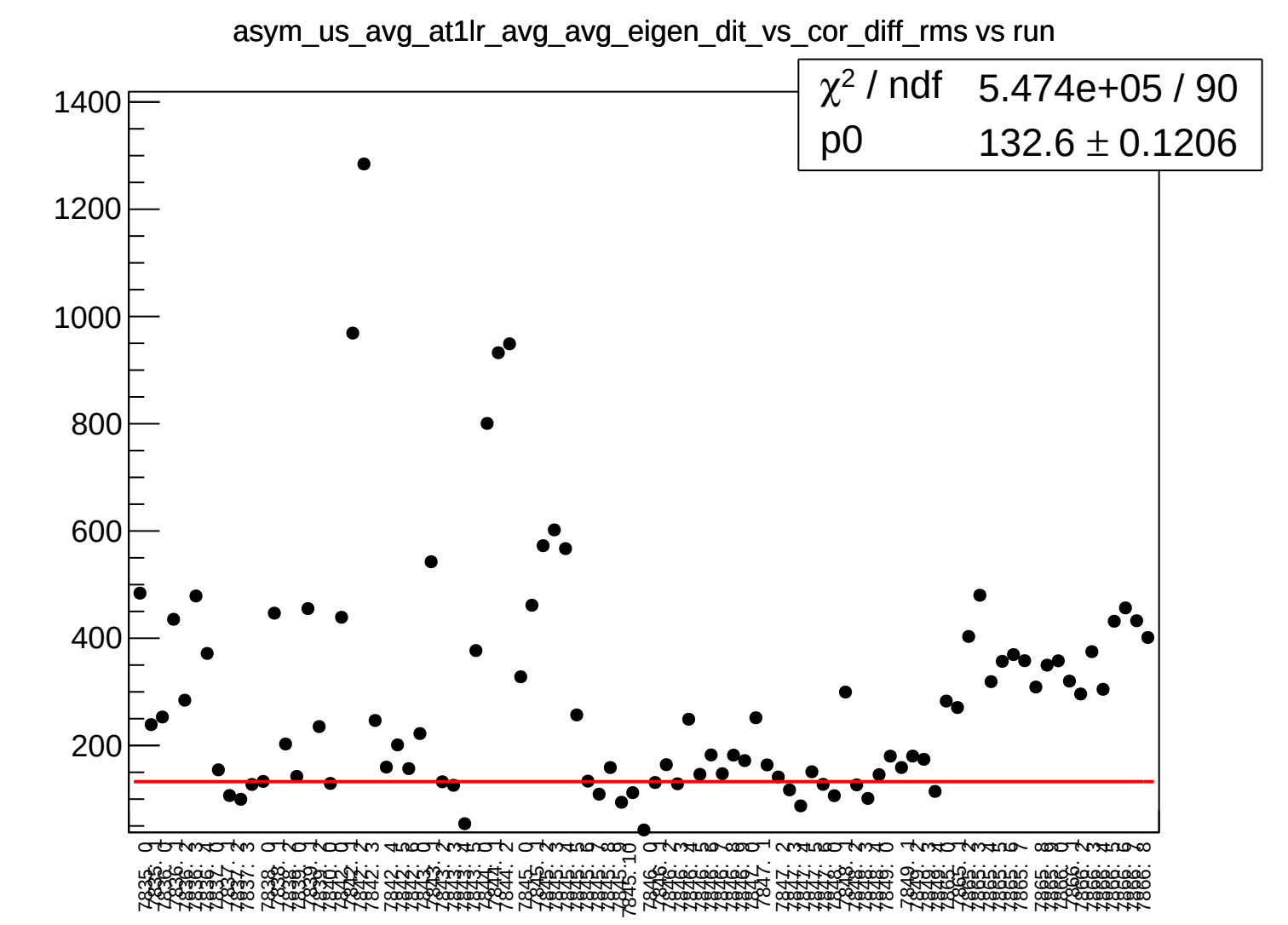

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.474e+05 / 90
p0 132.6 ± 0.1206
1400
1200
1000
800
600
400
200

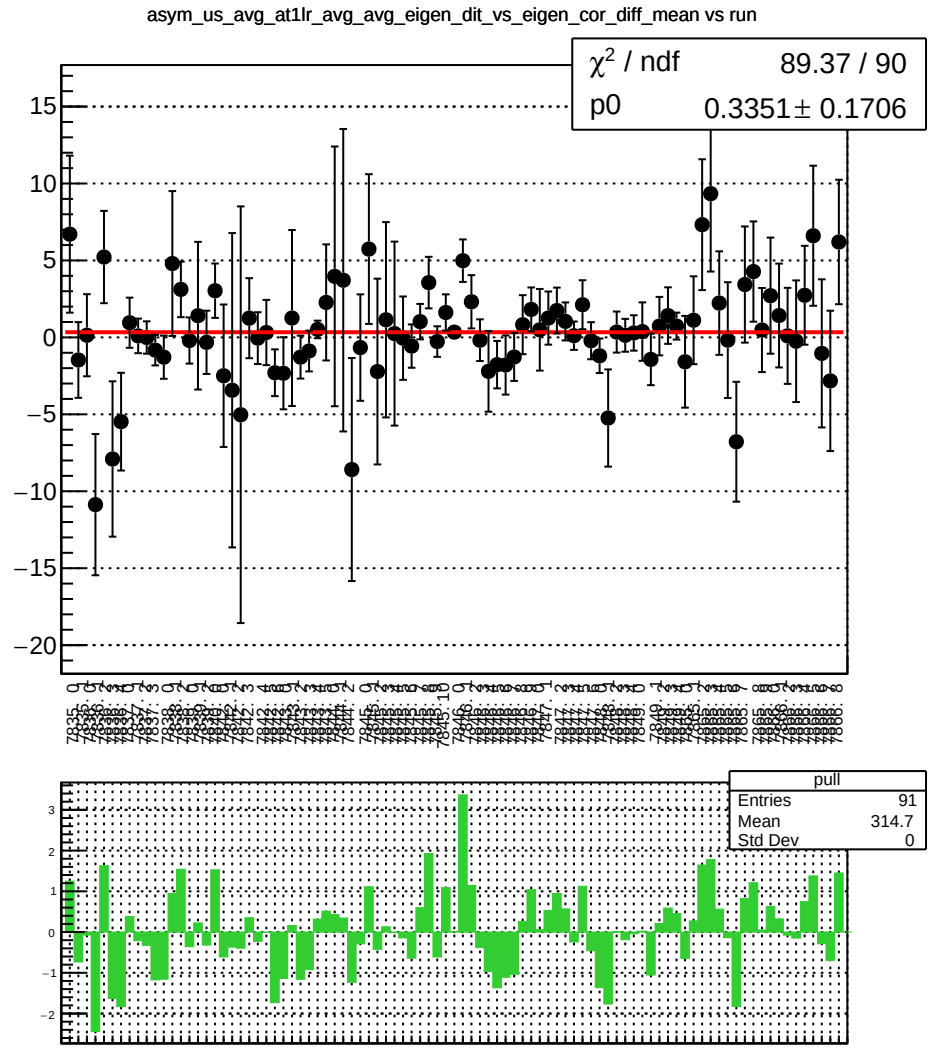

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.24 / 90
p0 −1.267e−05 ± 4.737e−06
pull
Entries 91
Mean 3700
Std Dev 0
pull1D
Entries 91
Mean −0.00148
Std Dev 1.039

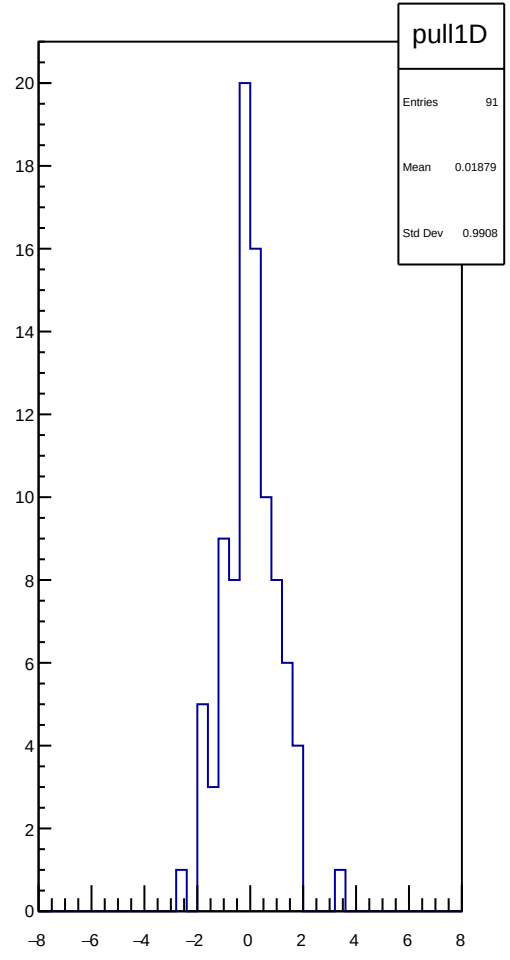

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.114e+05 / 90
p0 0.004294 ± 3.349e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

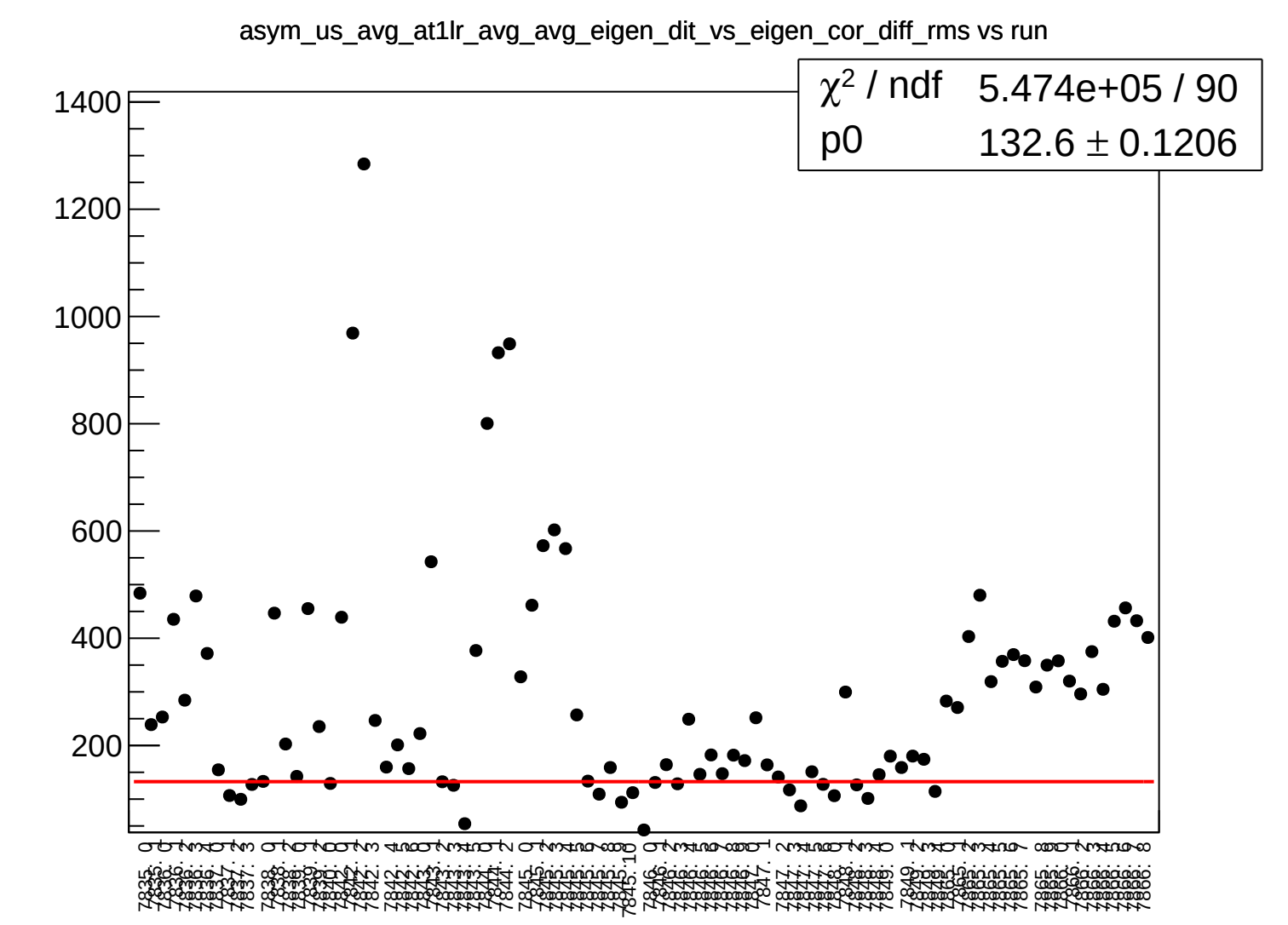

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.37 / 90
p0 0.3351 ± 0.1706
pull
Entries 91
Mean 314.7
Std Dev 0

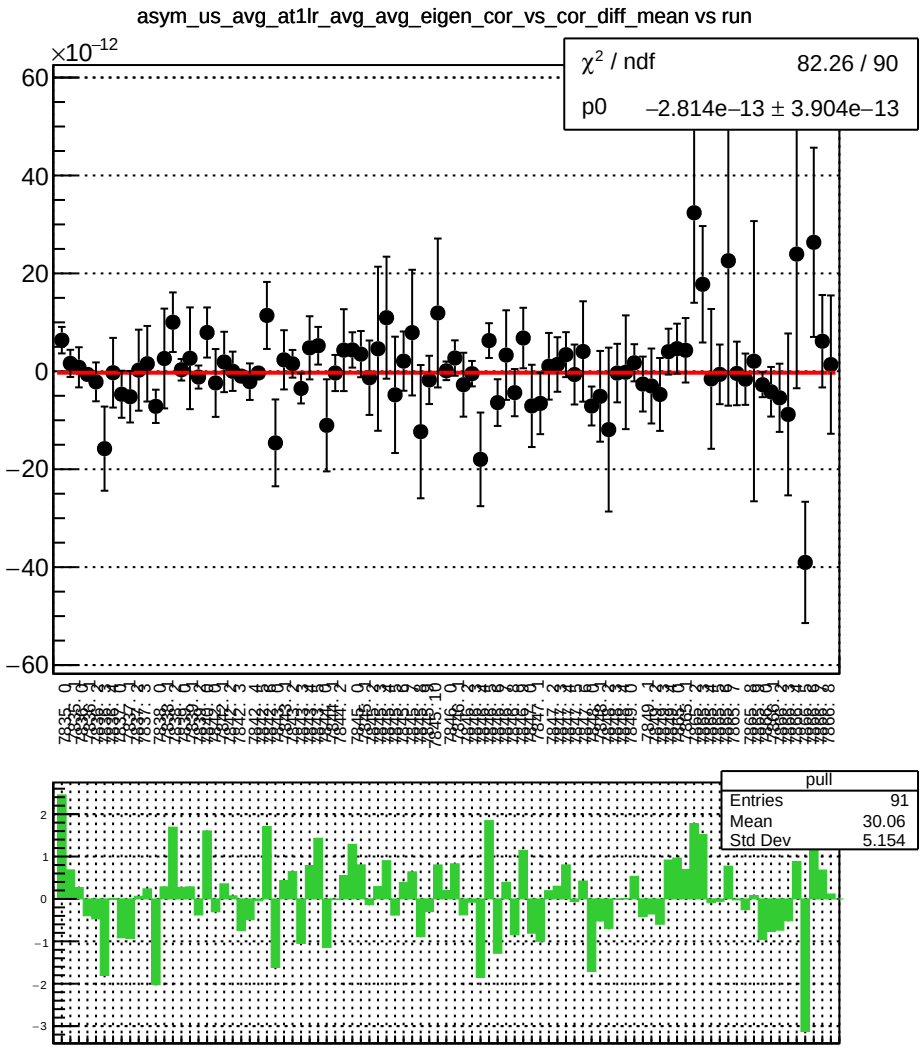

pull1D
Entries 91
Mean 0.01879
Std Dev 0.9908

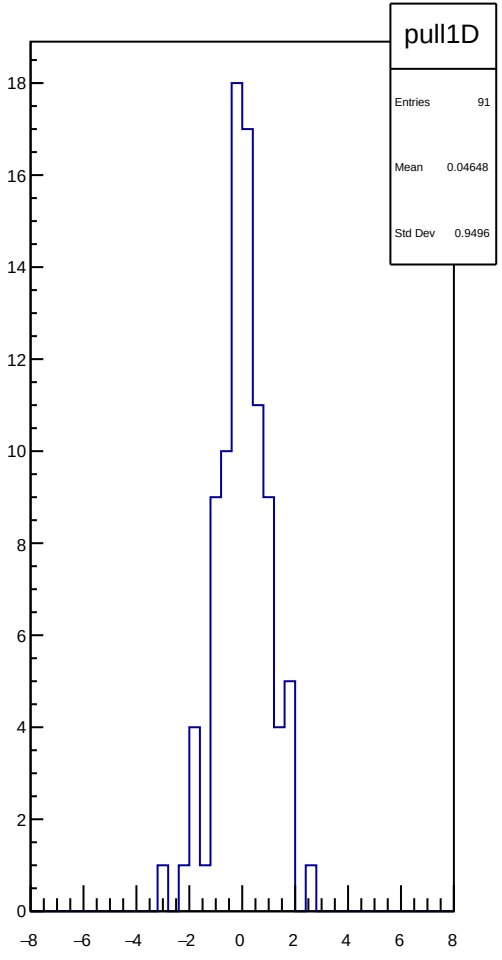

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.474e+05 / 90
p0 132.6 ± 0.1206
1400
1200
1000
800
600
400
200

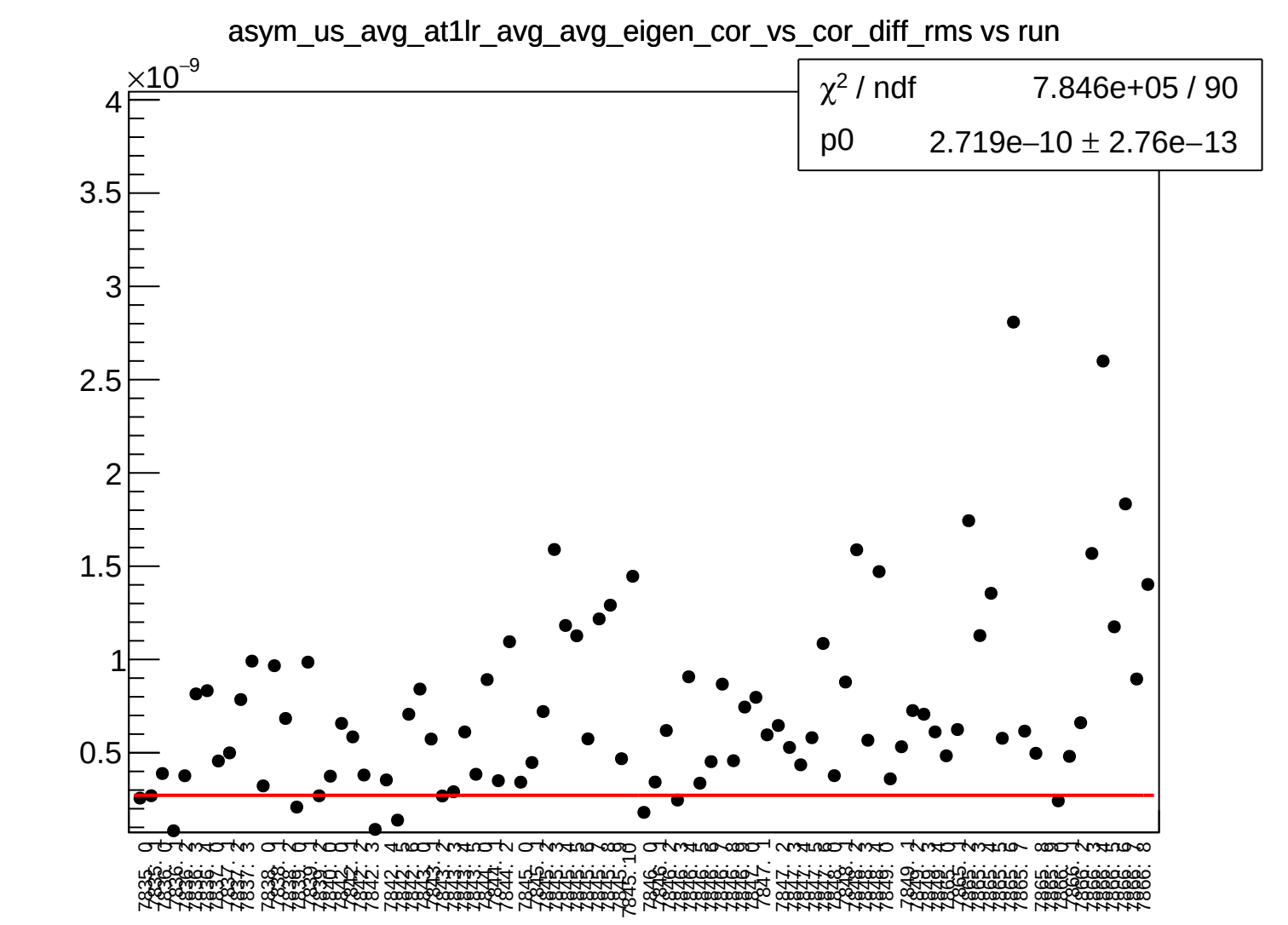

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.37 / 90
p0 0.3351 ± 0.1706
pull
Entries 91
Mean 314.7
Std Dev 0

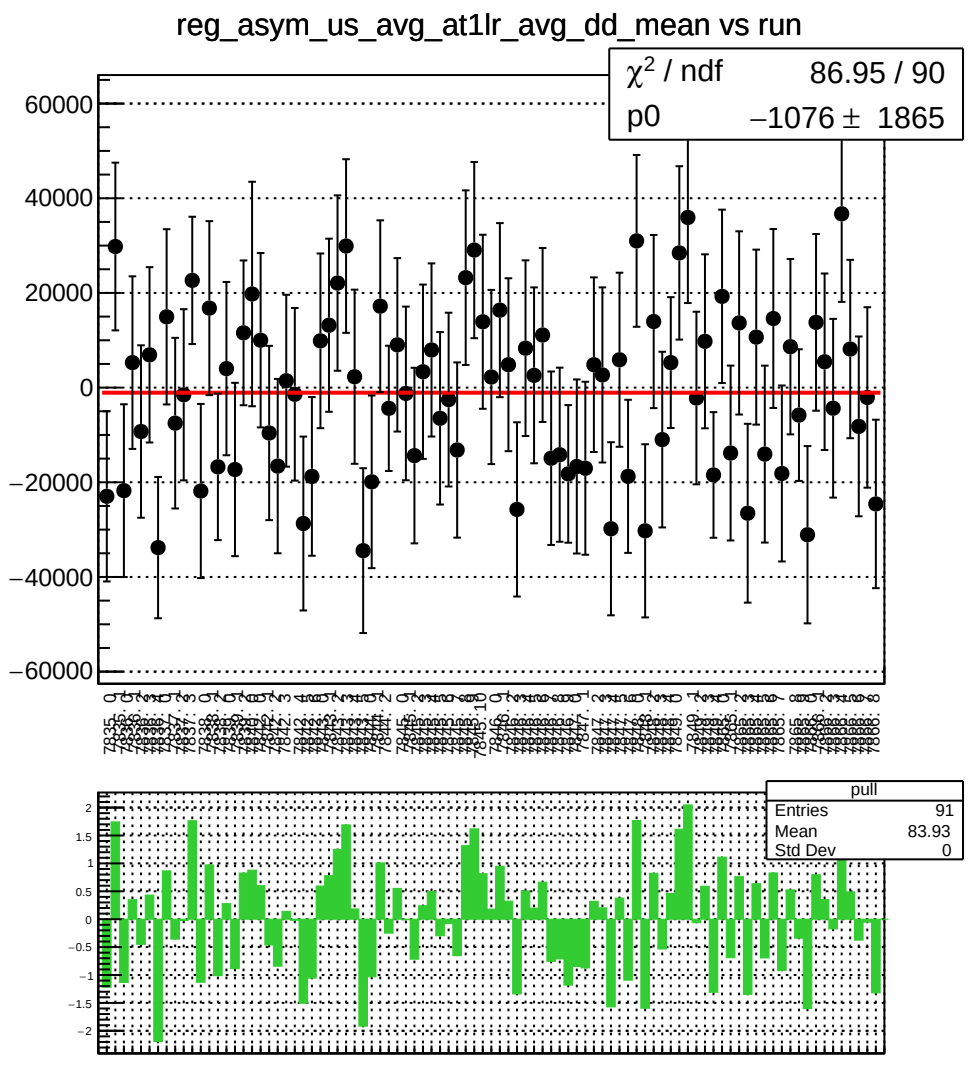

pull1D
Entries 91
Mean 0.01879
Std Dev 0.9908

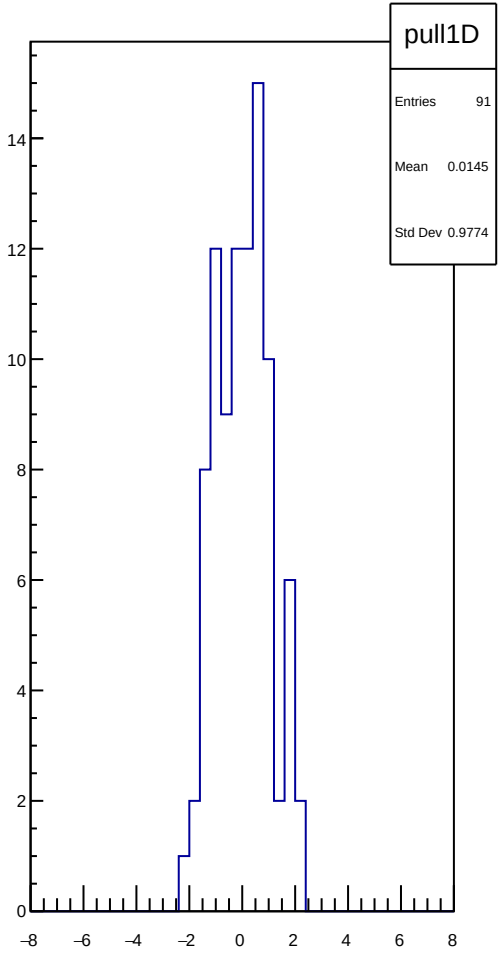

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.474e+05 / 90
p0 132.6 ± 0.1206
1400
1200
1000
800
600
400
200

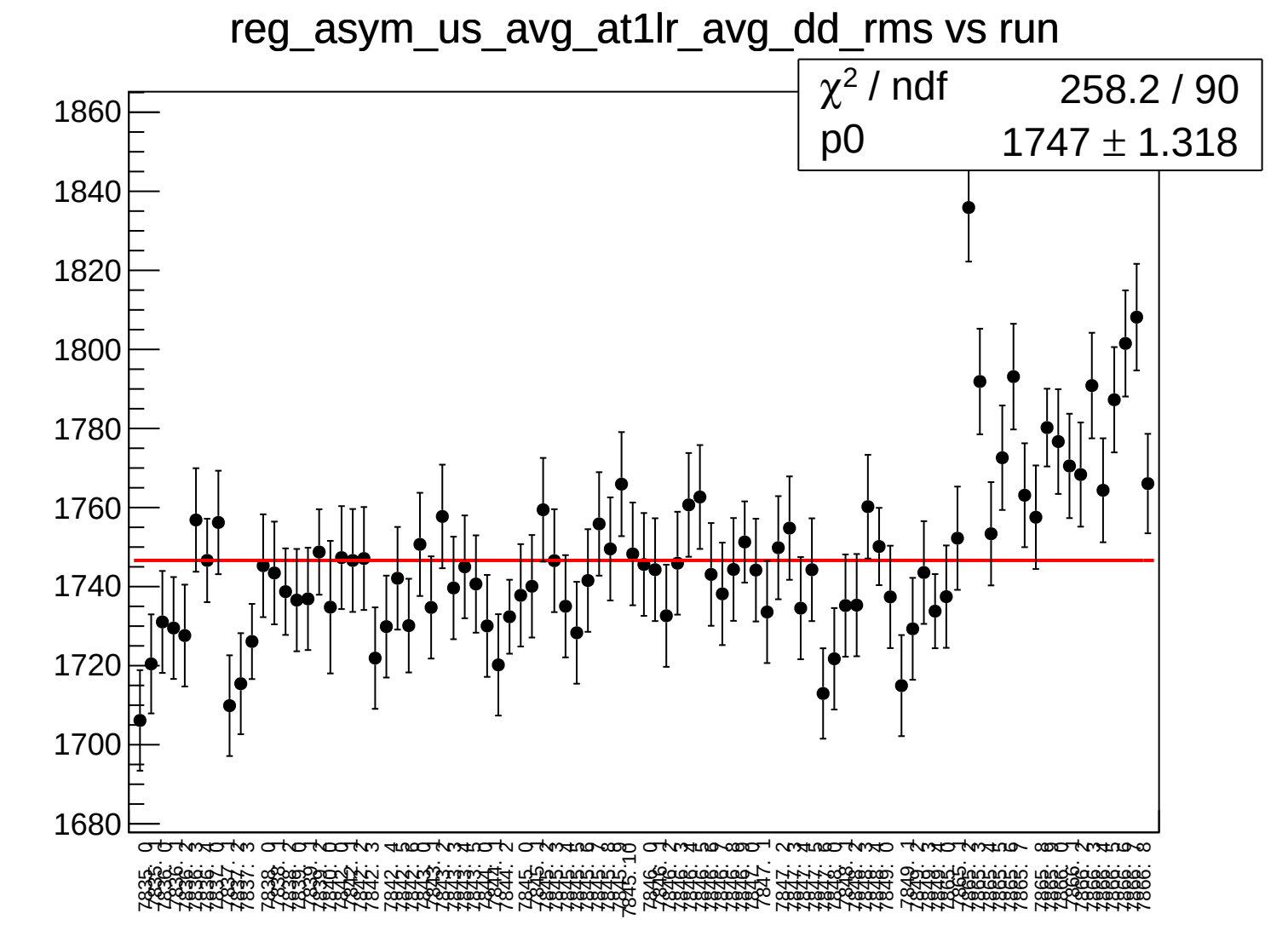

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.26 / 90
p0 −2.814e−13 ± 3.904e−13
pull
Entries 91
Mean 30.06
Std Dev 5.154

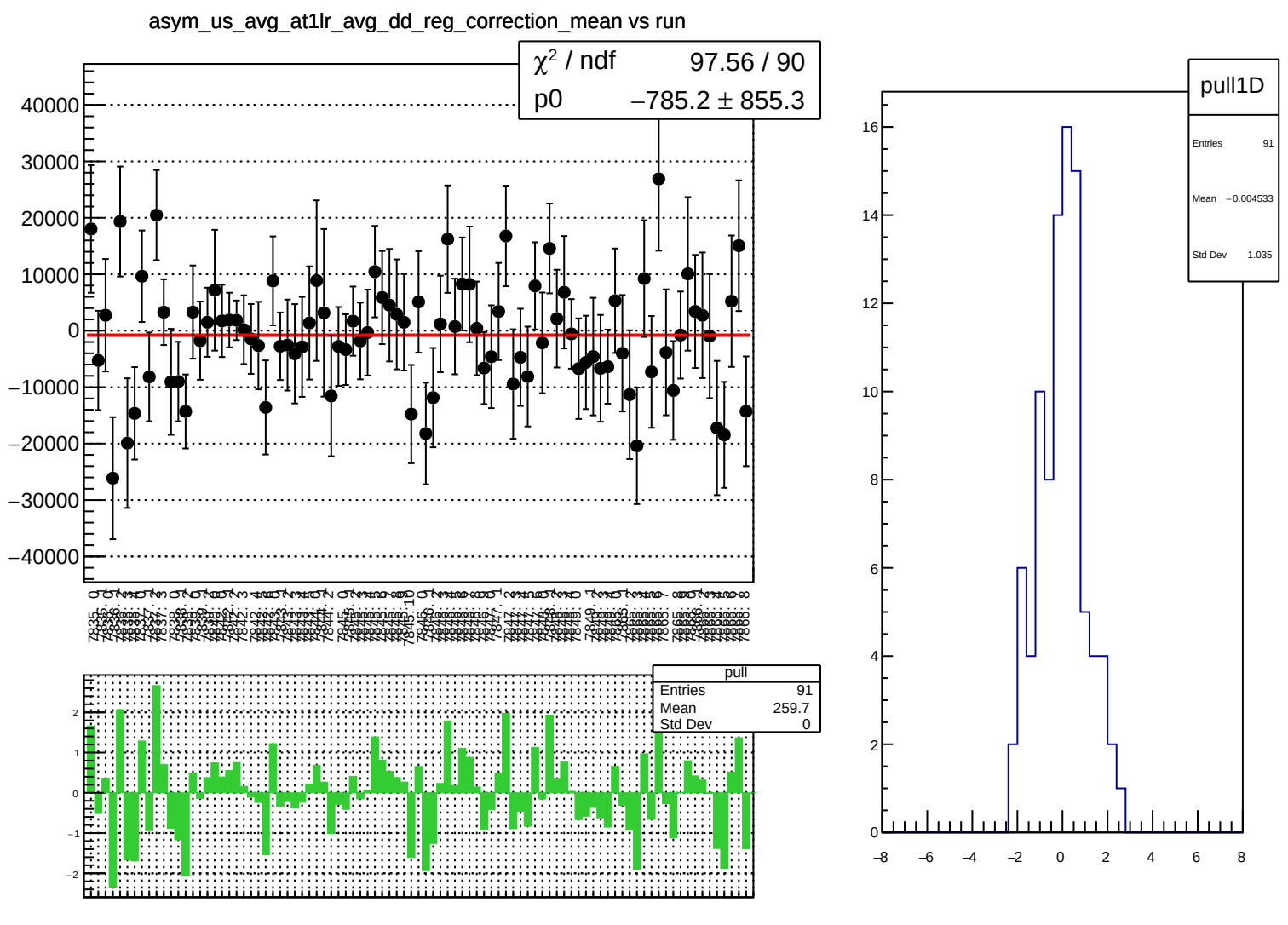

pull1D
Entries 91
Mean 0.04648
Std Dev 0.9496

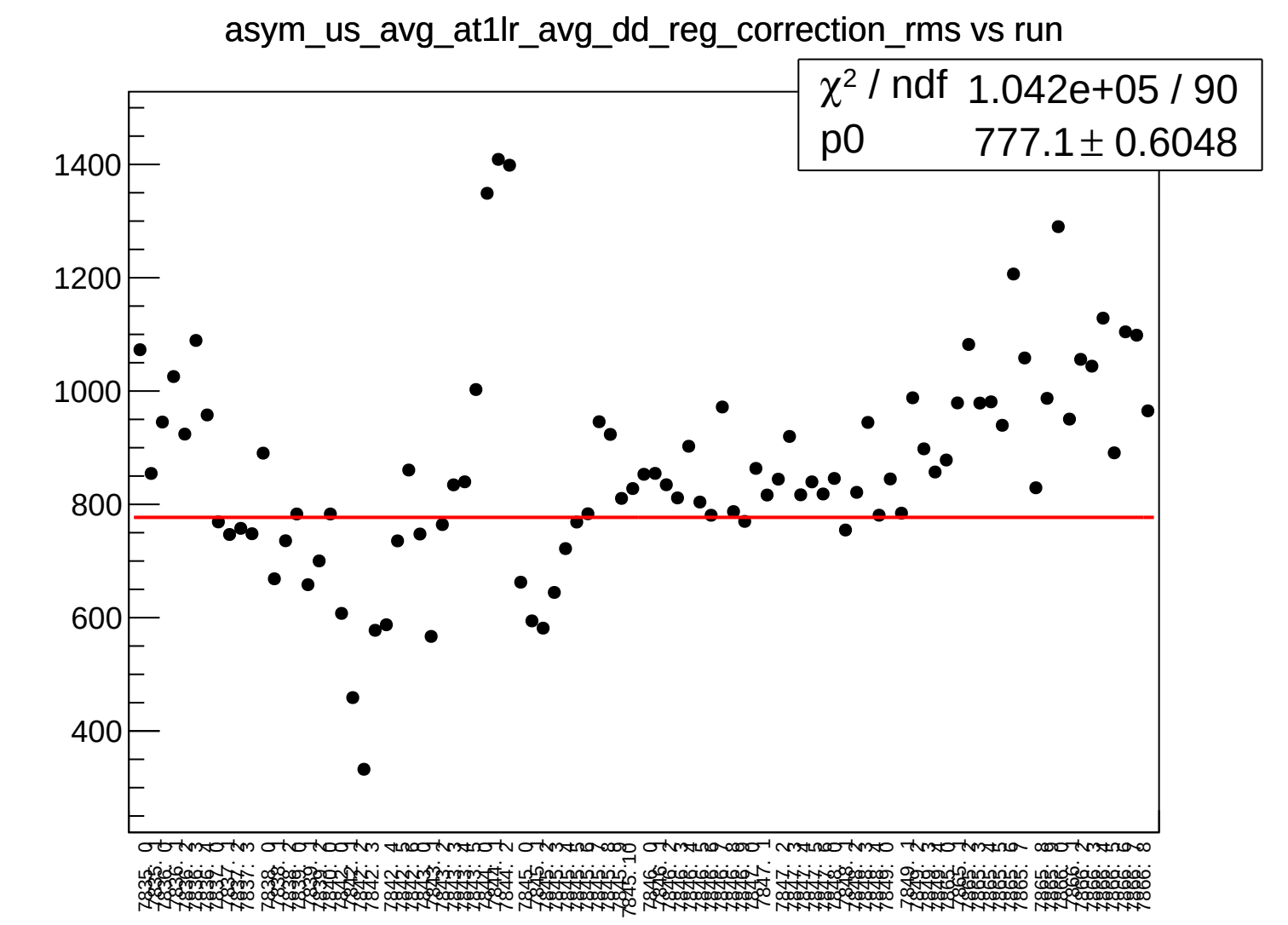

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.846e+05 / 90
p0 2.719e−10 ± 2.76e−13
4
3.5
3
2.5
2
1.5
1
0.5

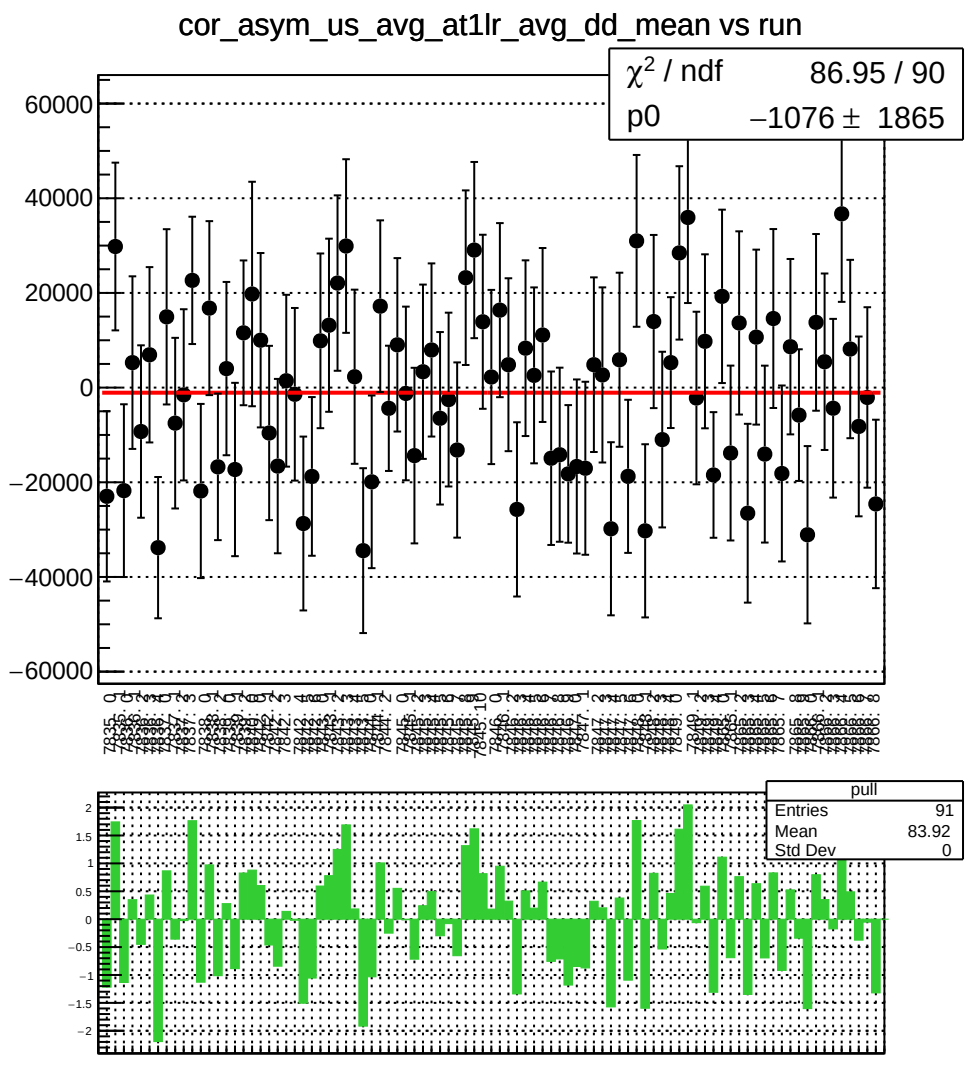

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.95 / 90
p0 −1076 ± 1865
pull
Entries 91
Mean 83.93
Std Dev 0

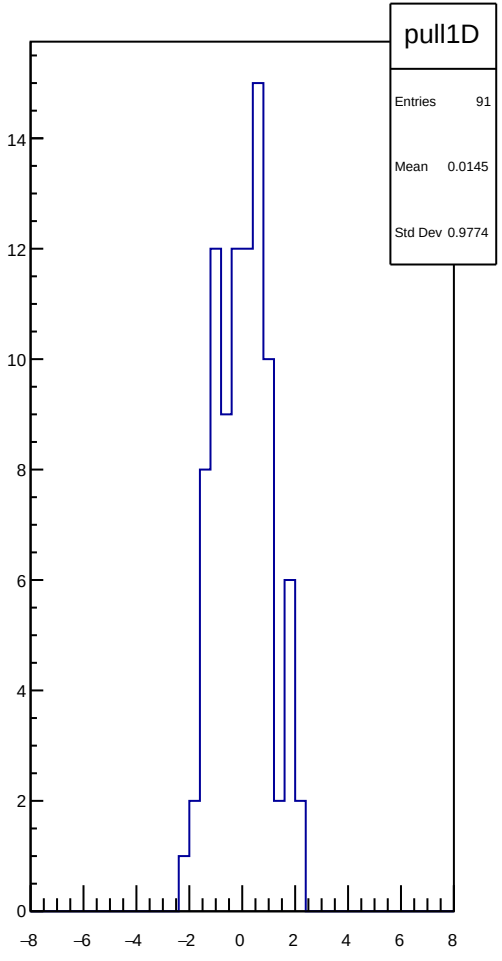

pull1D
Entries 91
Mean 0.0145
Std Dev 0.9774

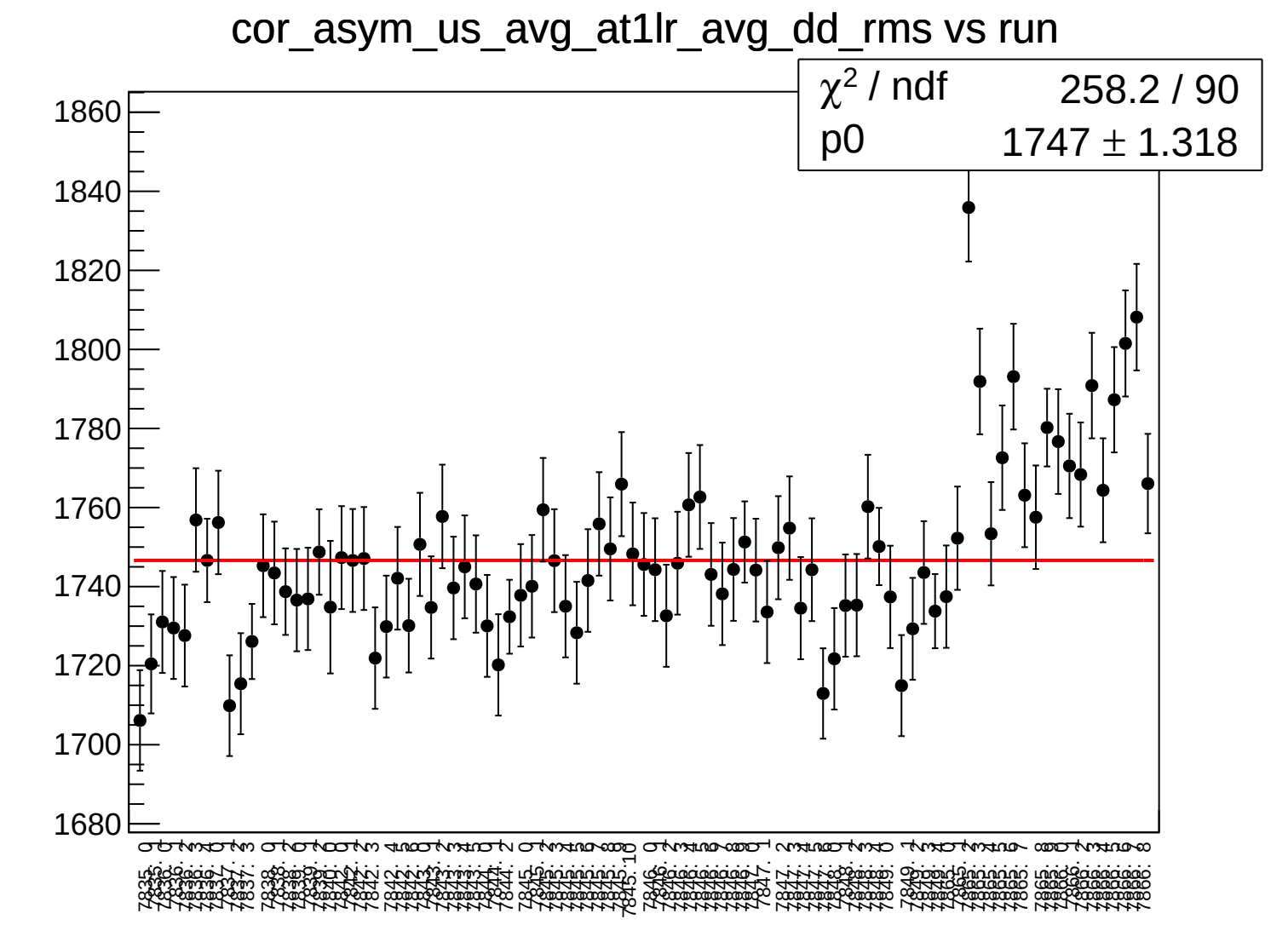

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 258.2 / 90
p0 1747 ± 1.318
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

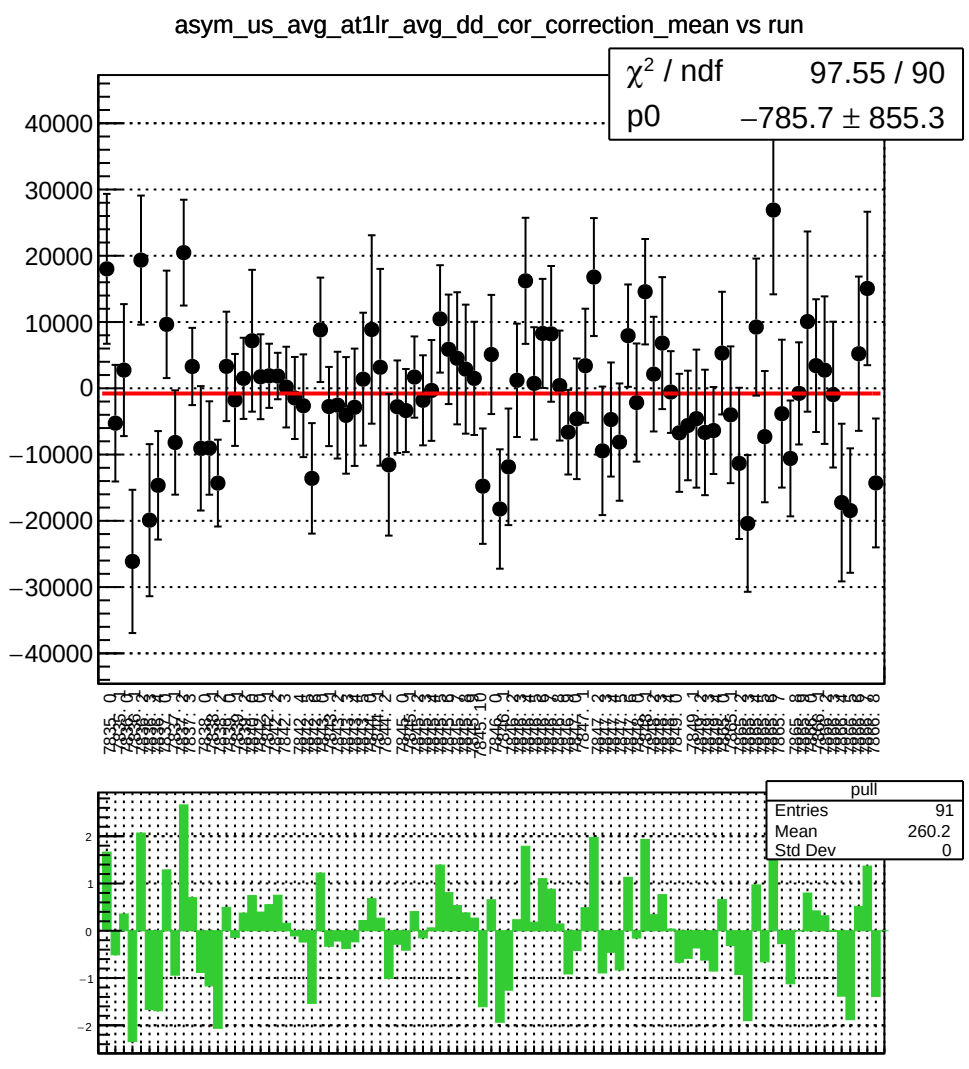

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 97.56 / 90
p0 −785.2 ± 855.3
pull
Entries 91
Mean 259.7
Std Dev 0
pull1D
Entries 91
Mean −0.004533
Std Dev 1.035

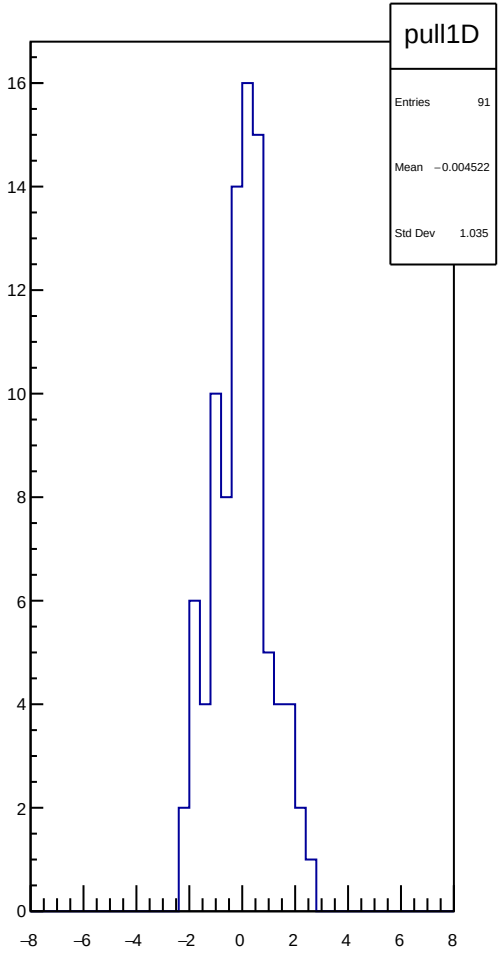

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.042e+05 / 90
p0 777.1 ± 0.6048
1400
1200
1000
800
600
400

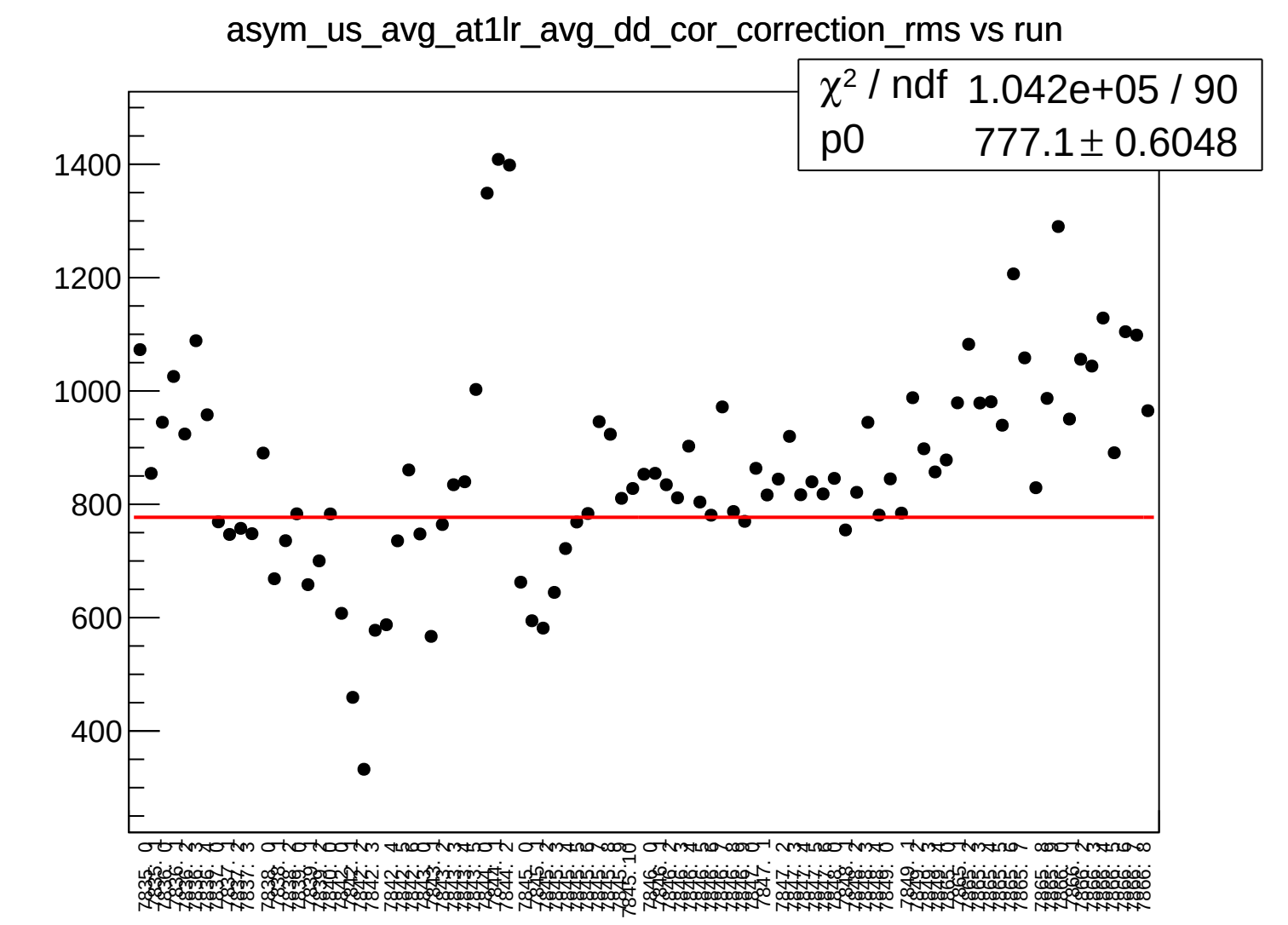

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.95 / 90
p0 −1076 ± 1865
pull
Entries 91
Mean 83.92
Std Dev 0

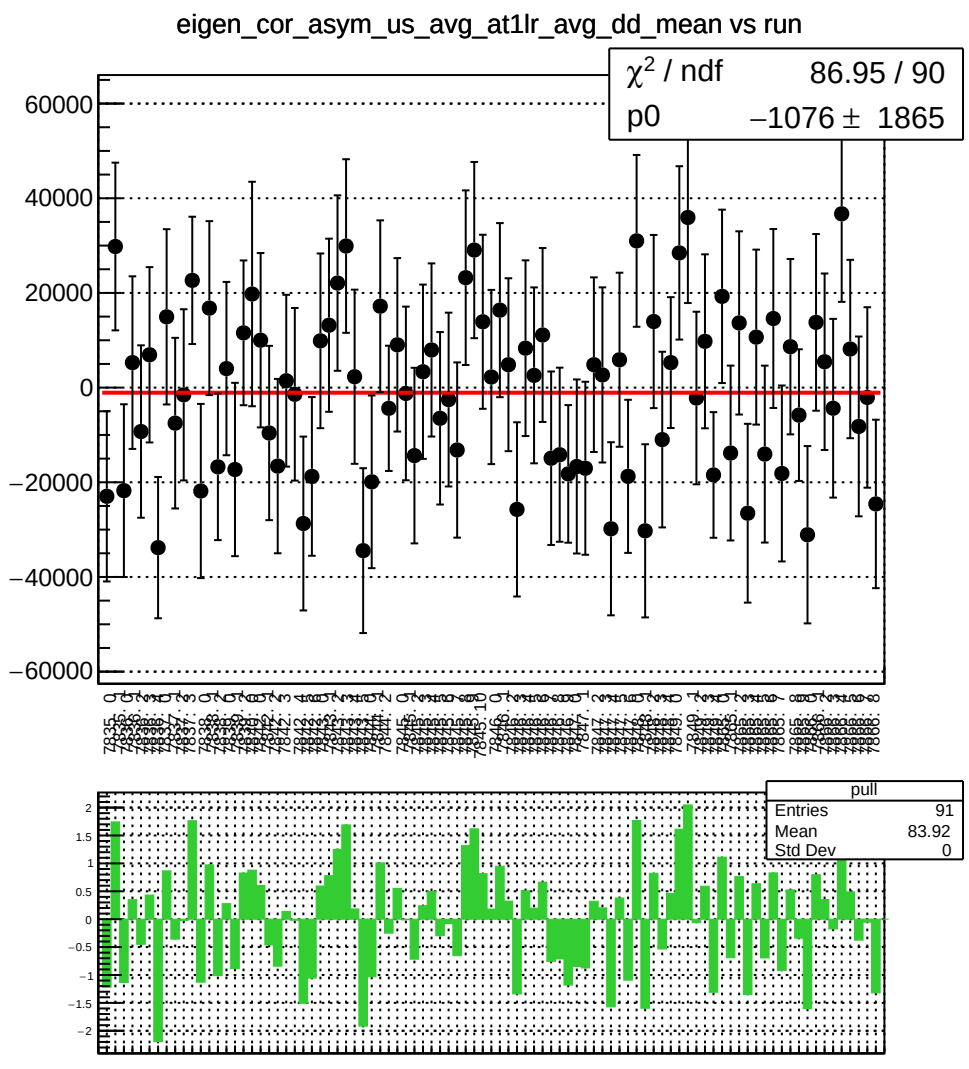

pull1D
Entries 91
Mean 0.0145
Std Dev 0.9774

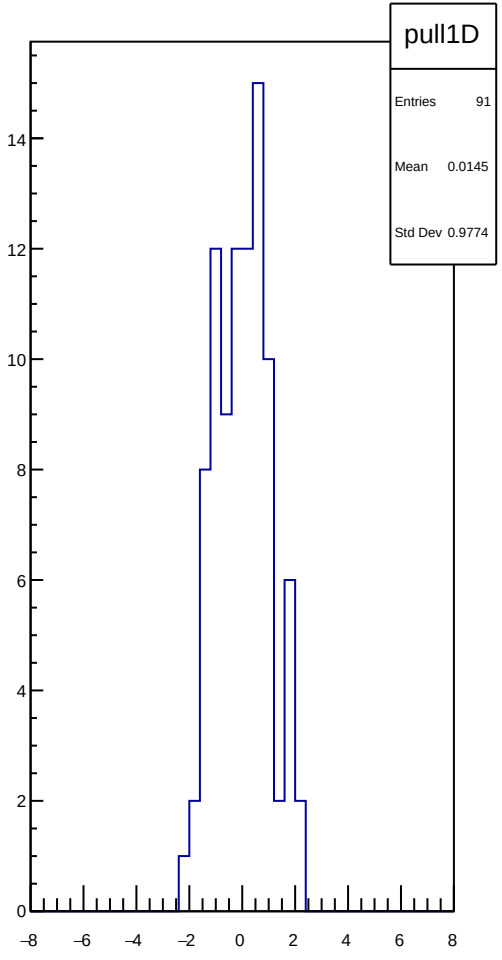

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 258.2 / 90
p0 1747 ± 1.318
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

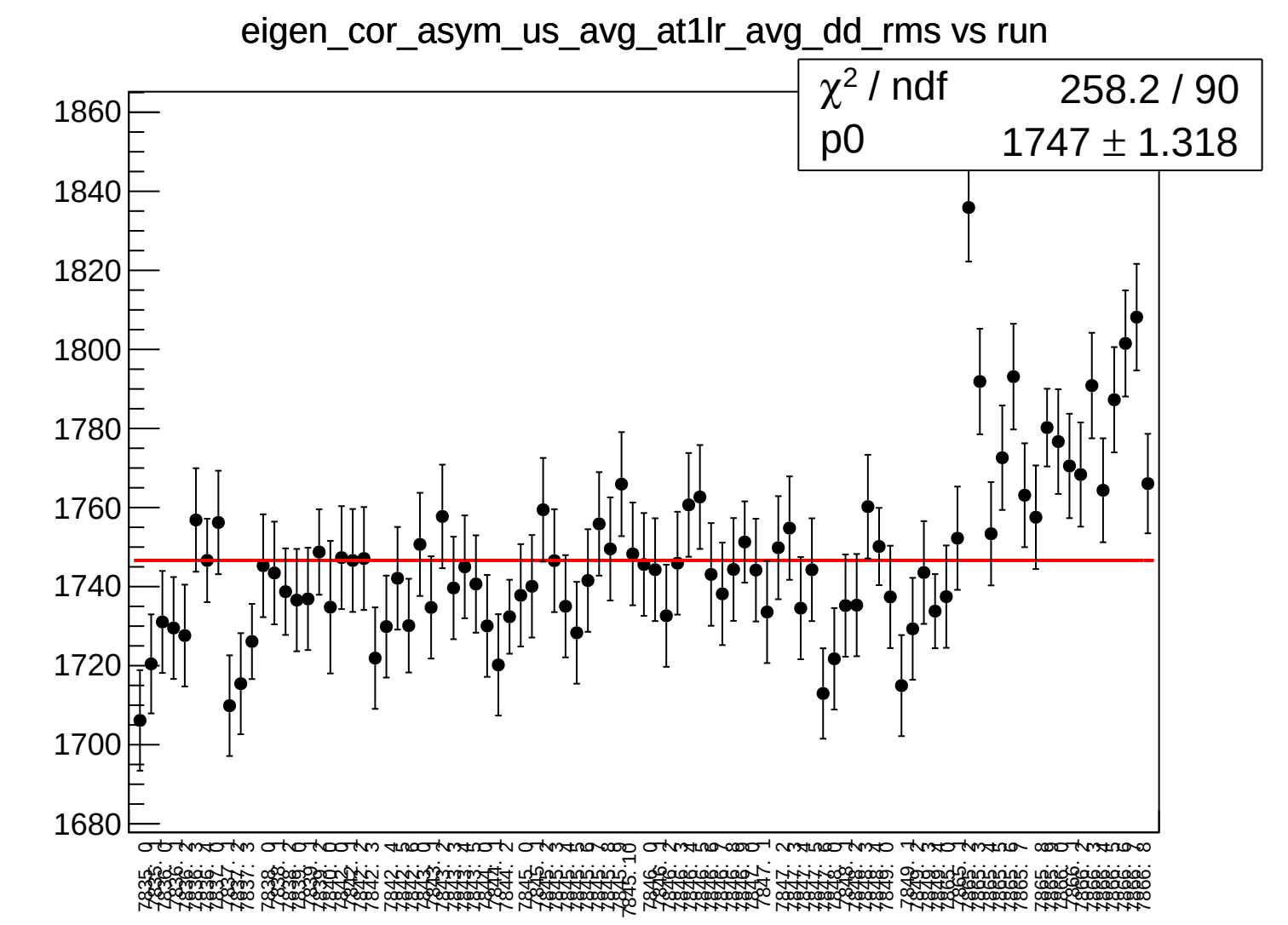

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 97.55 / 90
p0 −785.7 ± 855.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 260.2
Std Dev 0
2
1
0
−1
−2

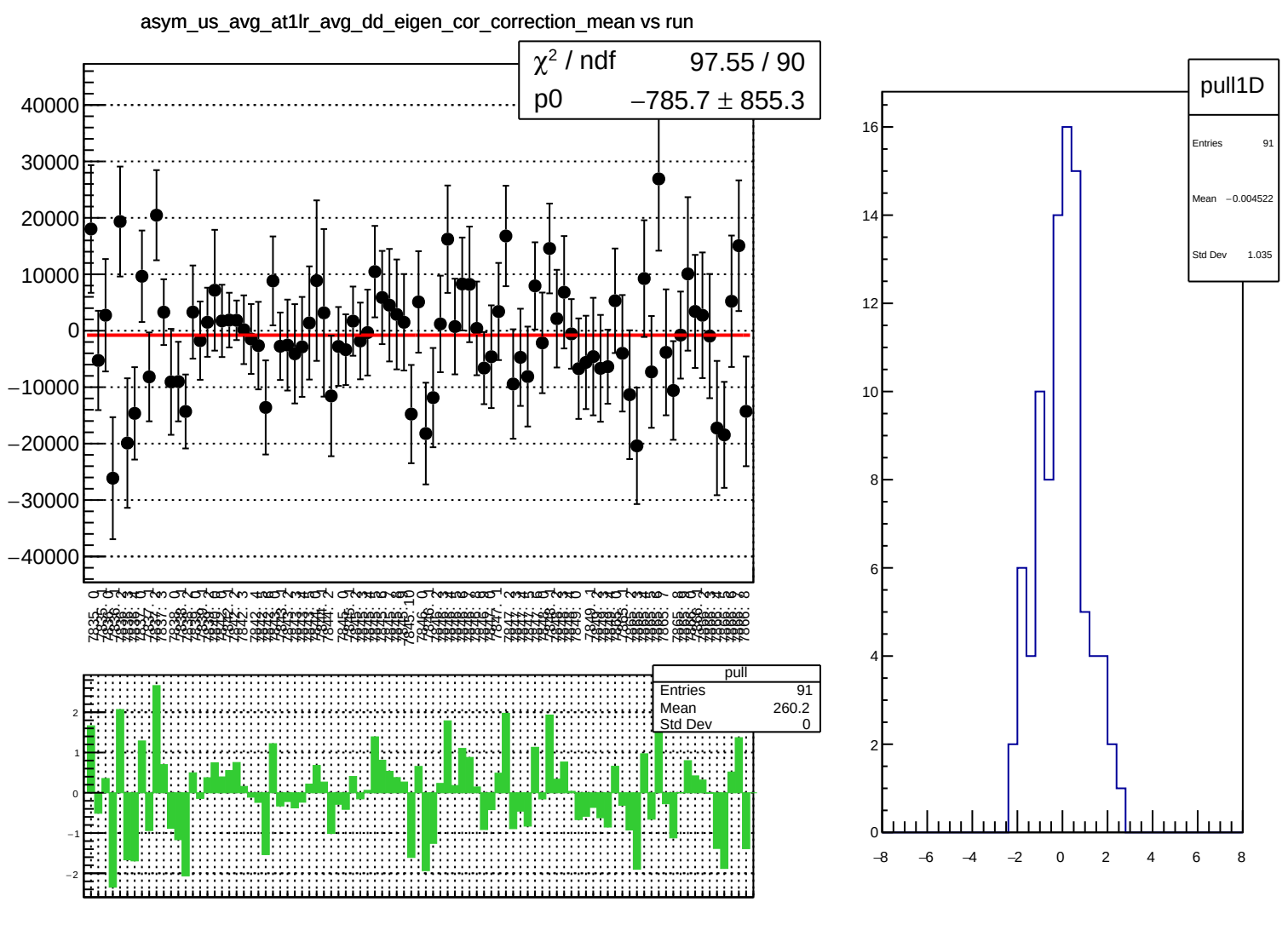

pull1D
Entries 91
Mean −0.004522
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

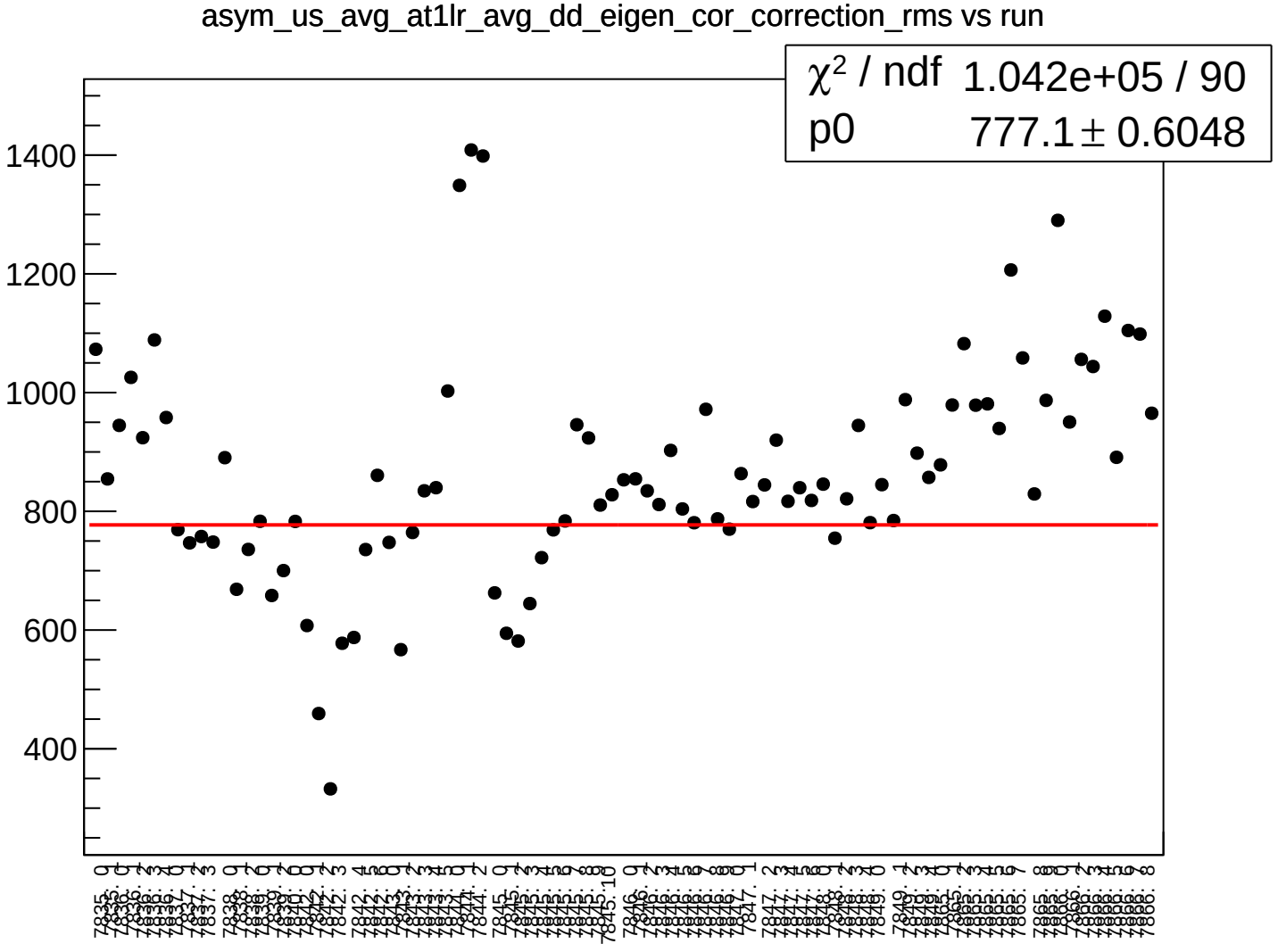

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.042e+05 / 90
p0 777.1 ± 0.6048
1400
1200
1000
800
600
400

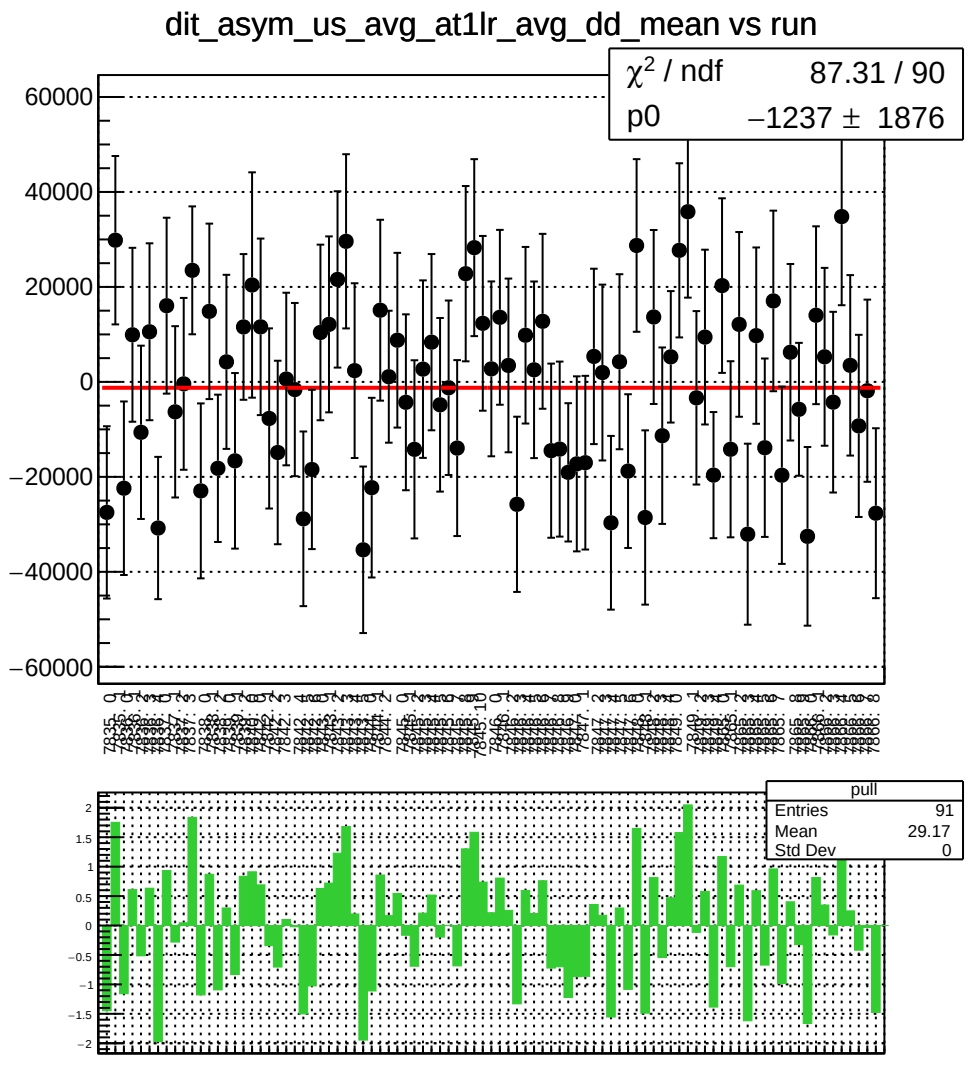

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.95 / 90
p0 −1076 ± 1865
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 83.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

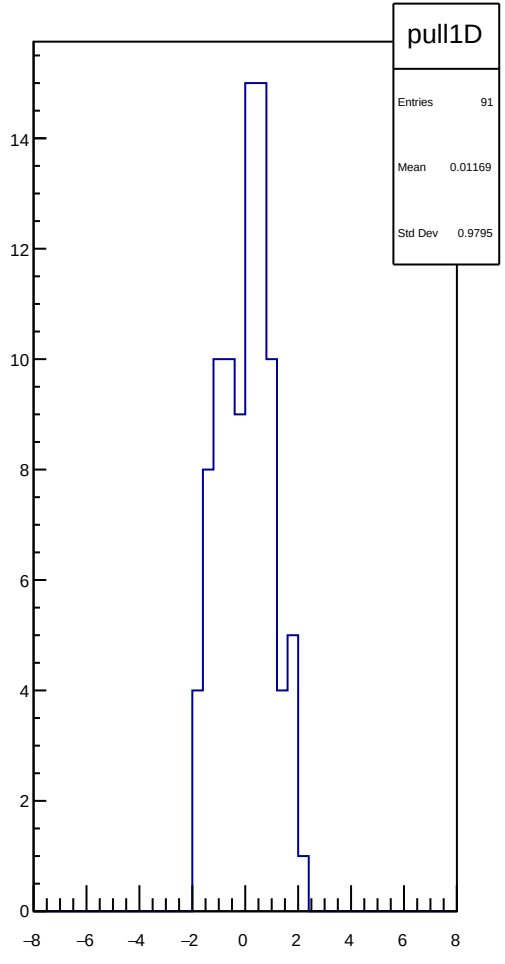

pull1D
Entries 91
Mean 0.0145
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

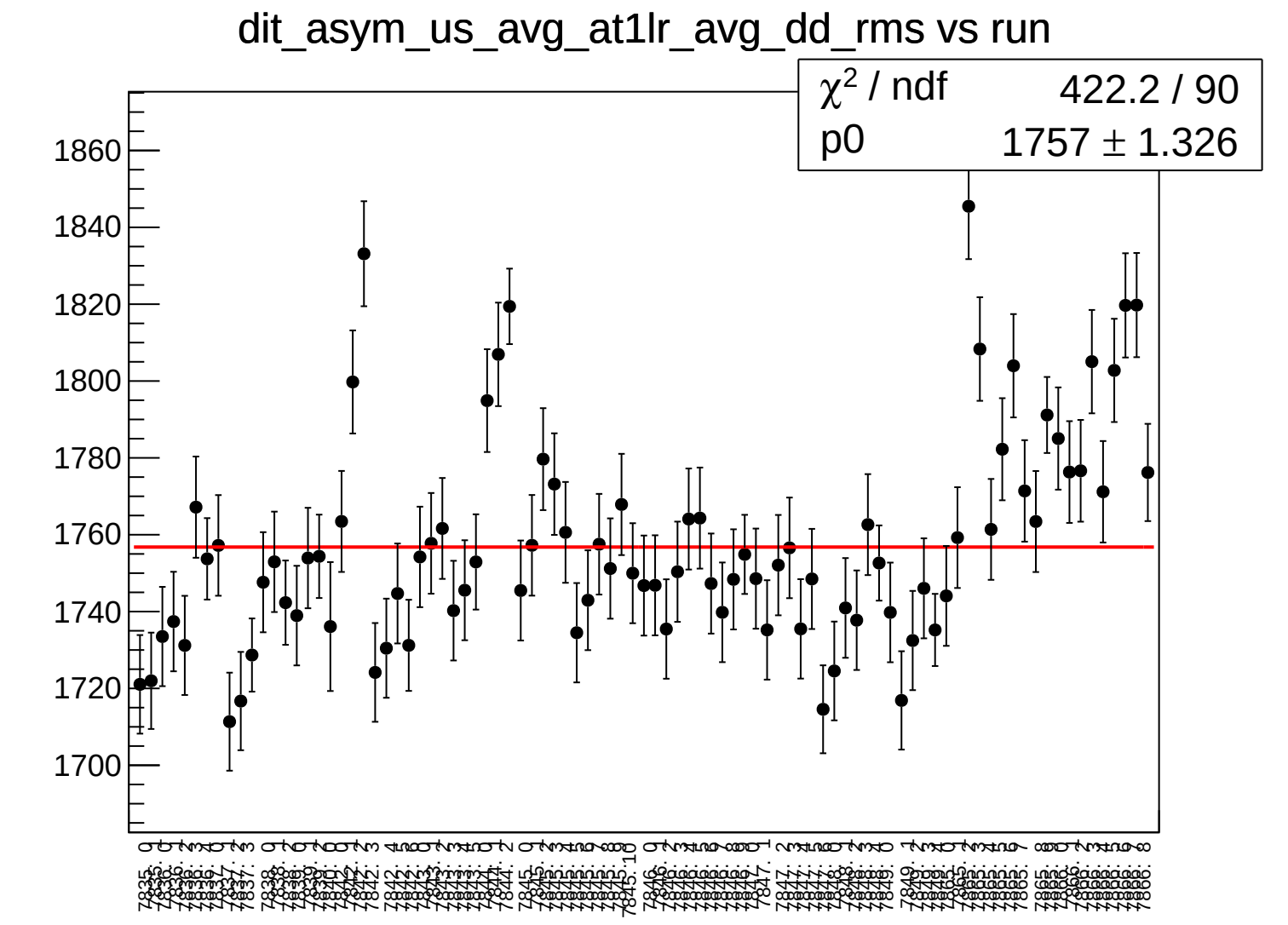

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 258.2 / 90
p0 1747 ± 1.318
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

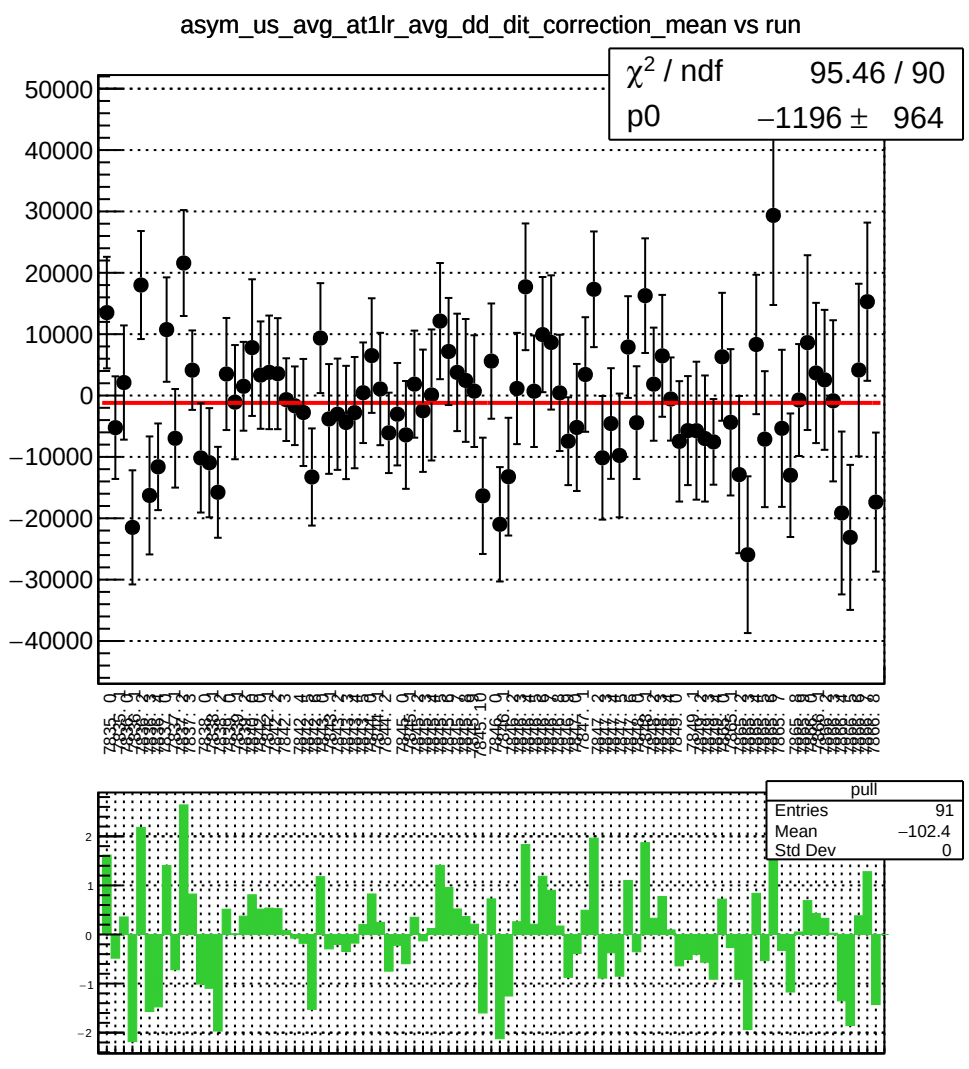

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.55 / 90
p0 −785.7 ± 855.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 260.2
Std Dev 0
pull1D
Entries 91
Mean −0.004522
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

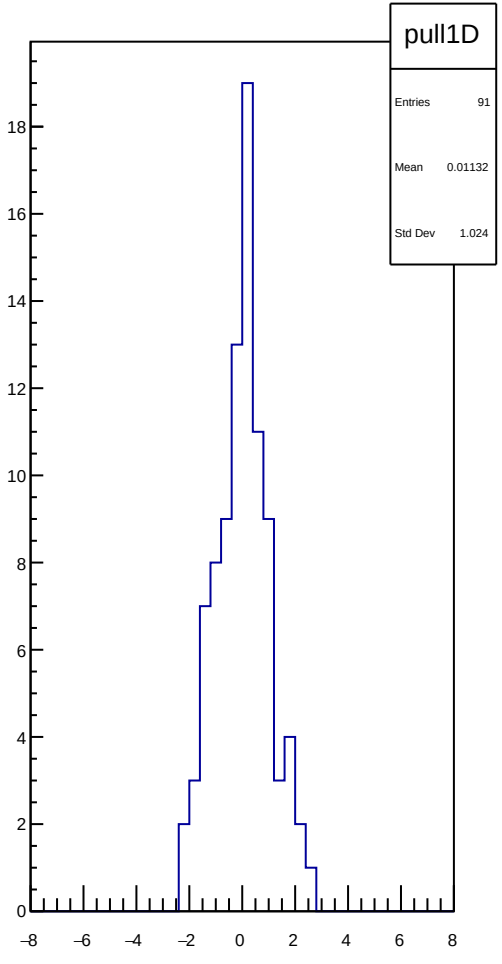

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.042e+05 / 90
p0 777.1 ± 0.6048
1400
1200
1000
800
600
400

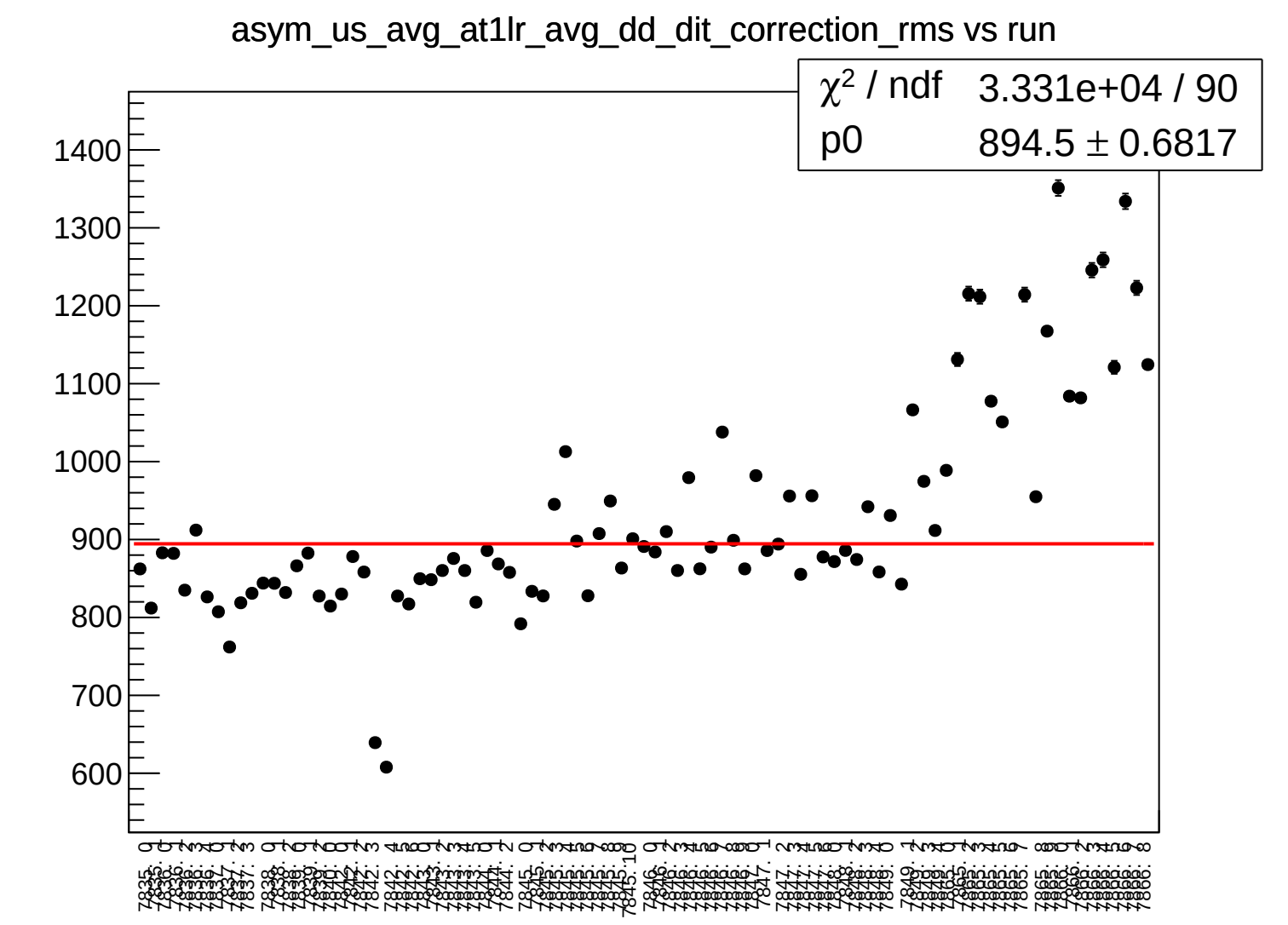

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.31 / 90
p0 −1237 ± 1876
pull
Entries 91
Mean 29.17
Std Dev 0

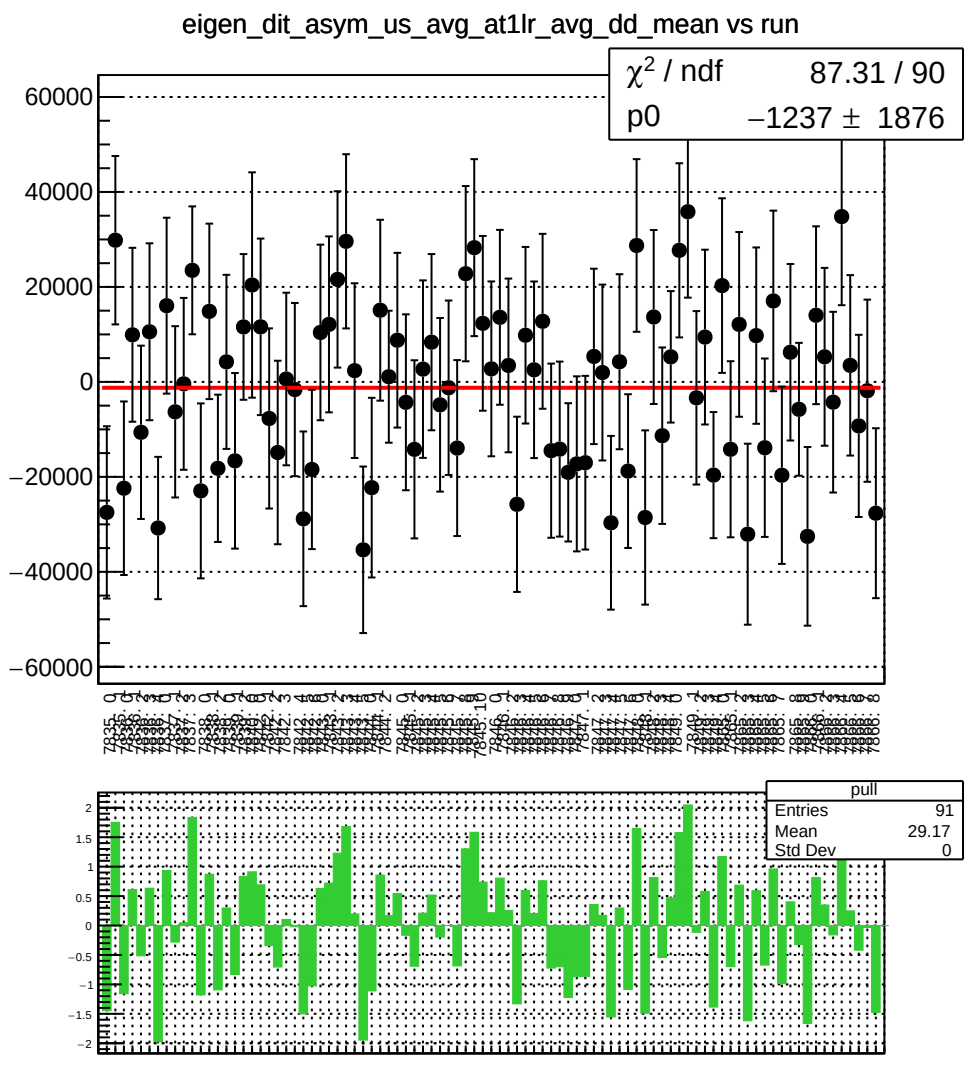

pull1D
Entries 91
Mean 0.01169
Std Dev 0.9795

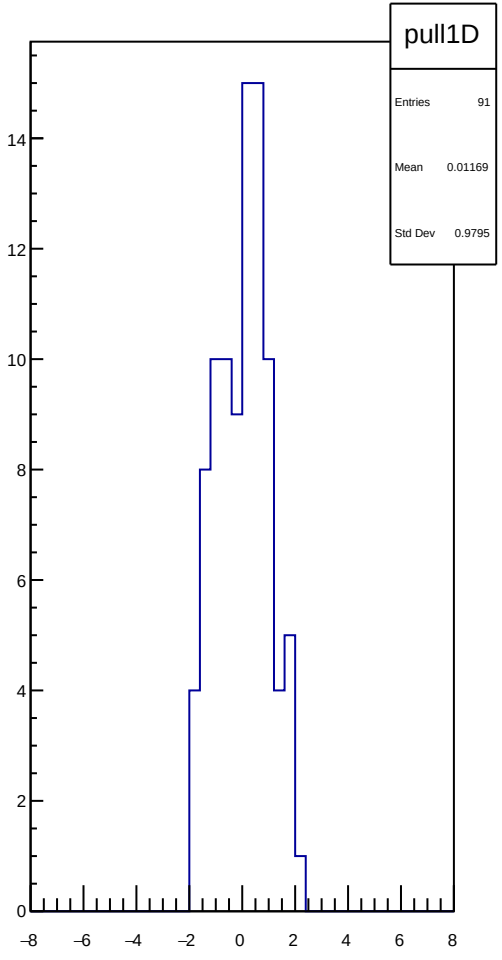

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 422.2 / 90
p0 1757 ± 1.326
1860
1840
1820
1800
1780
1760
1740
1720
1700

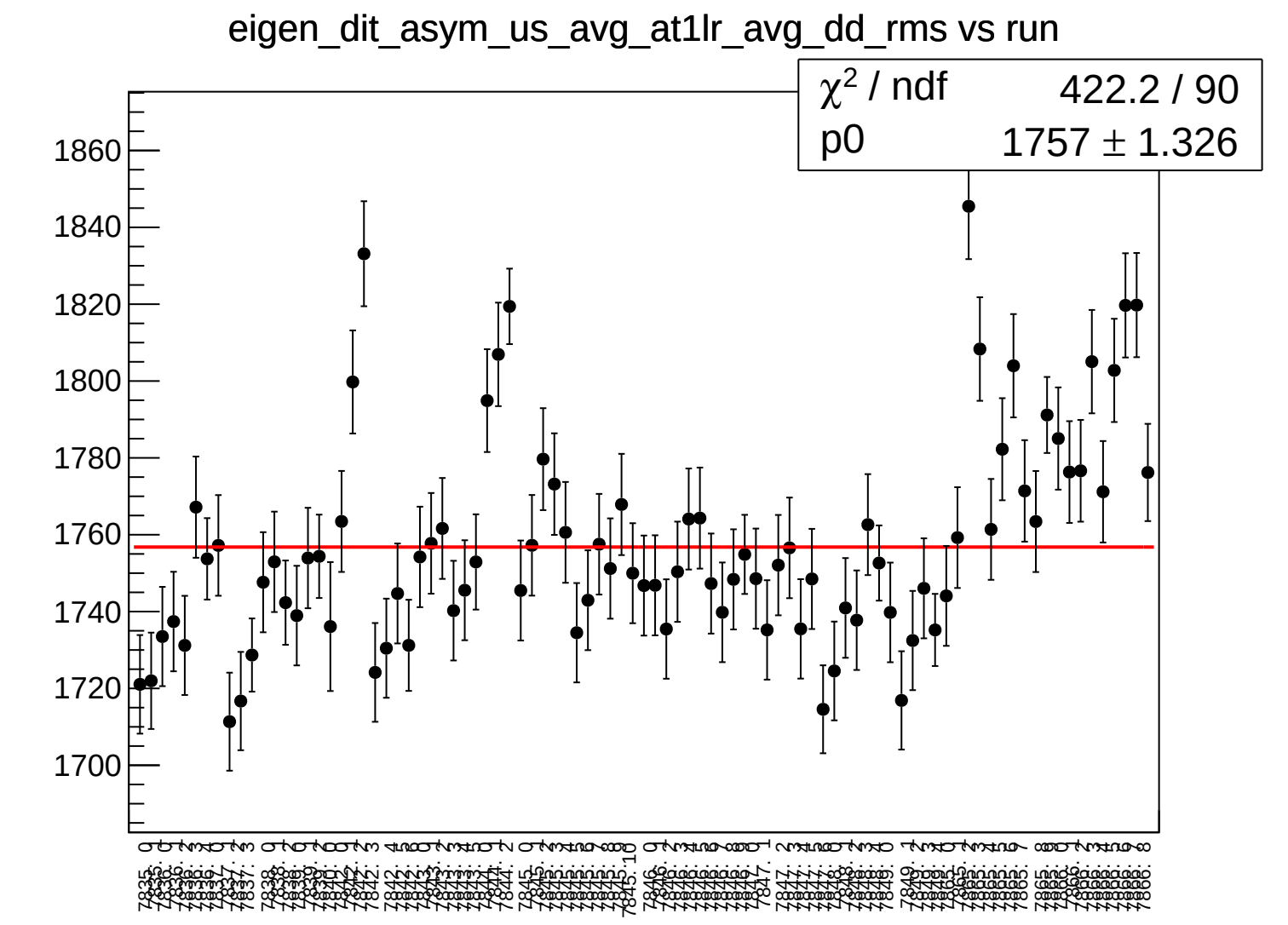

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 95.46 / 90
p0 −1196 ± 964
pull
Entries 91
Mean −102.4
Std Dev 0

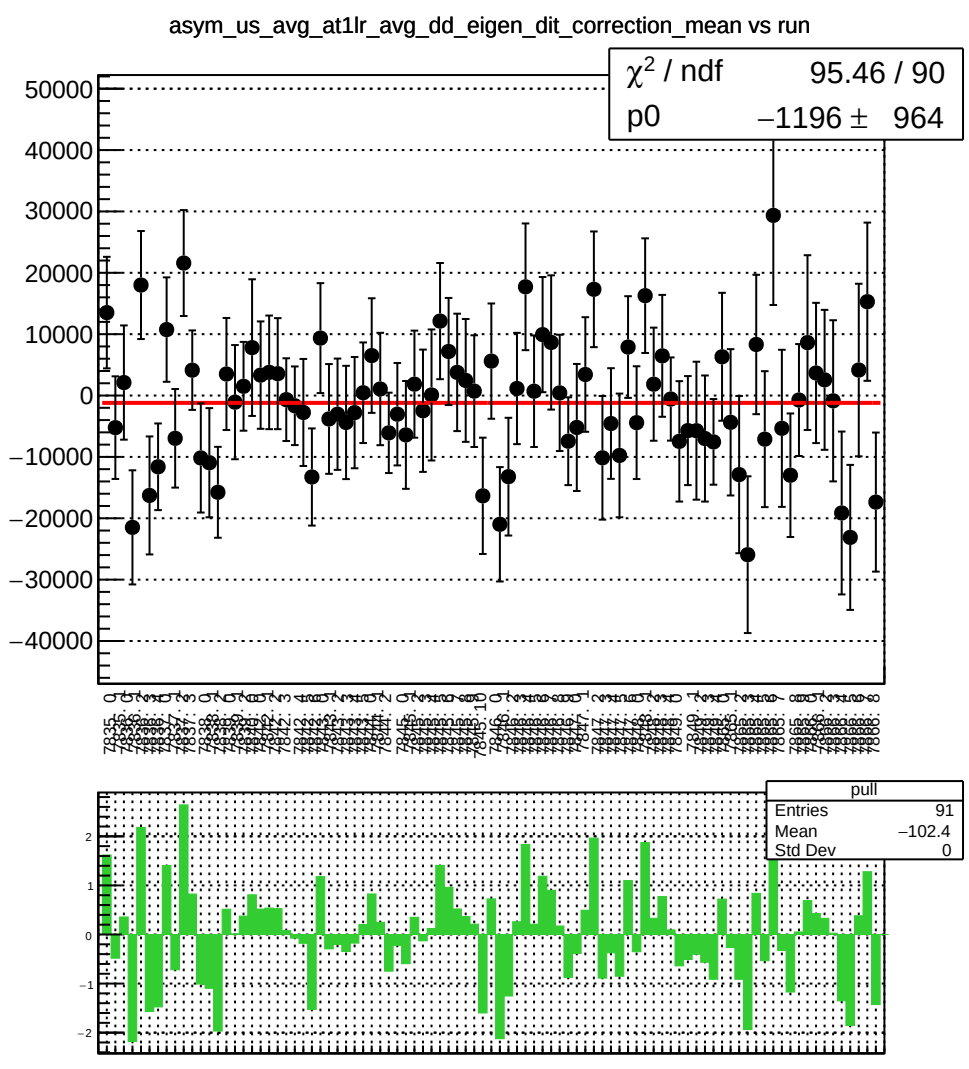

pull1D
Entries 91
Mean 0.01132
Std Dev 1.024

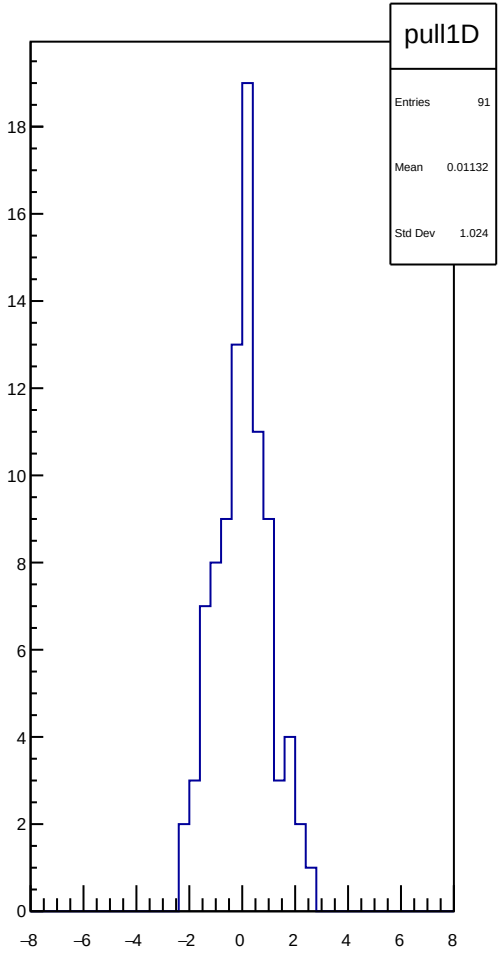

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.331e+04 / 90
p0 894.5 ± 0.6817
1400
1300
1200
1100
1000
900
800
700
600

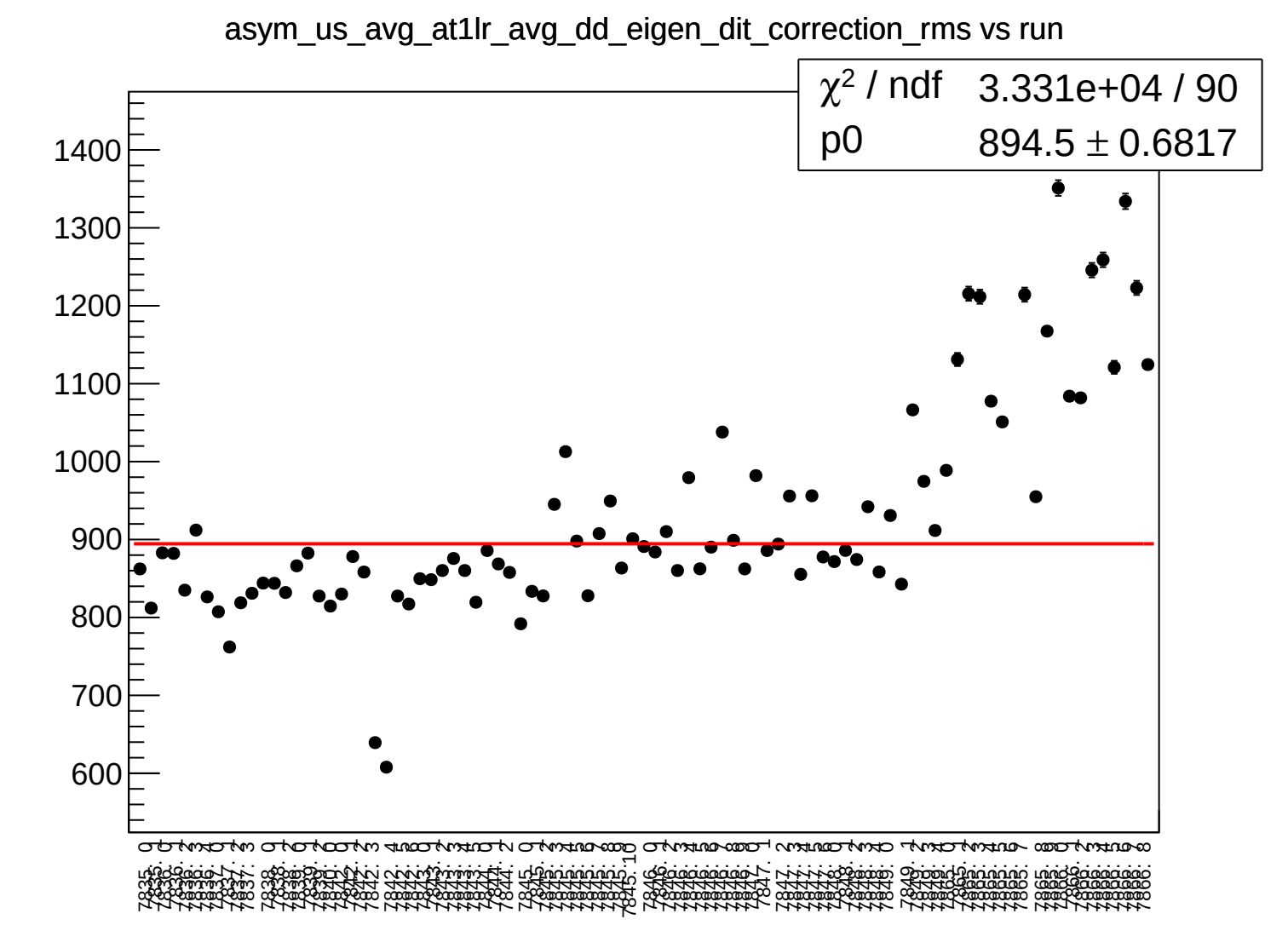

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.31 / 90
p0 −1237 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 29.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

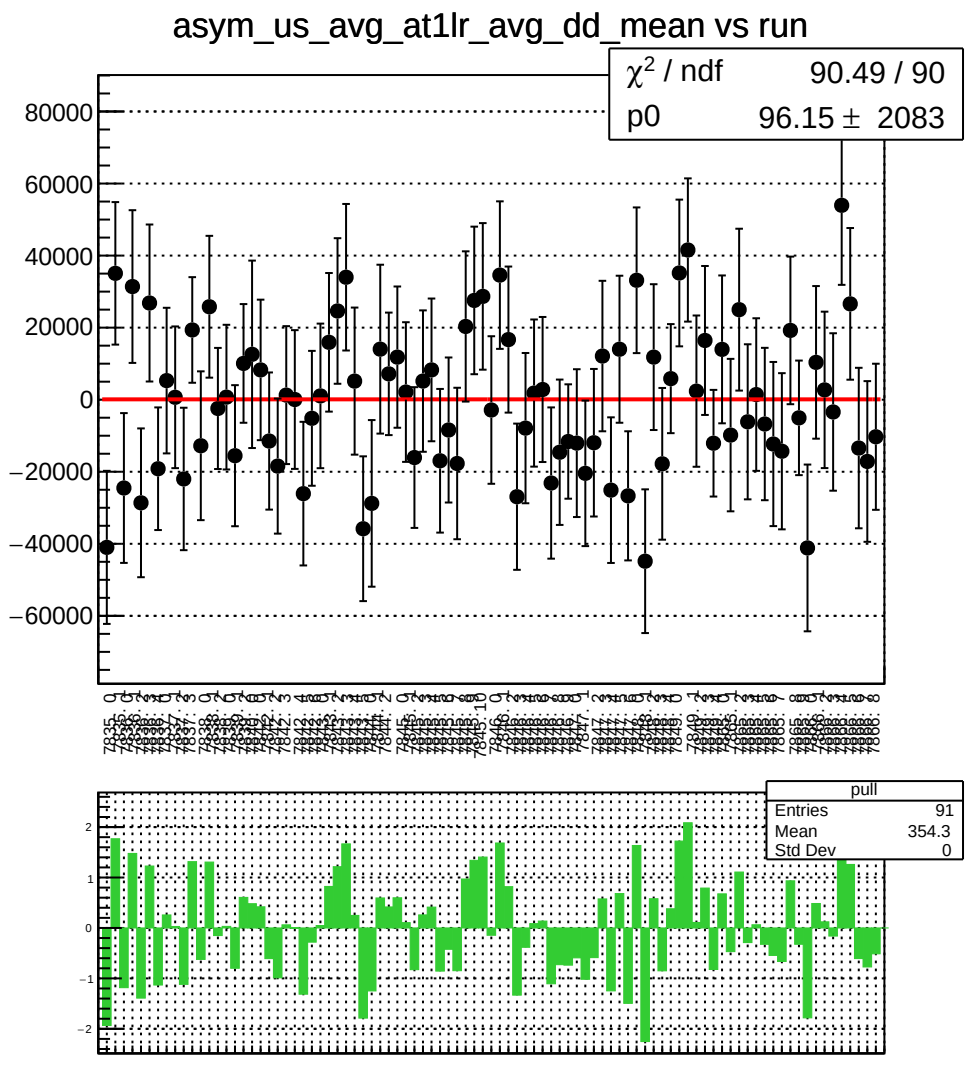

pull1D
Entries 91
Mean 0.01169
Std Dev 0.9795
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

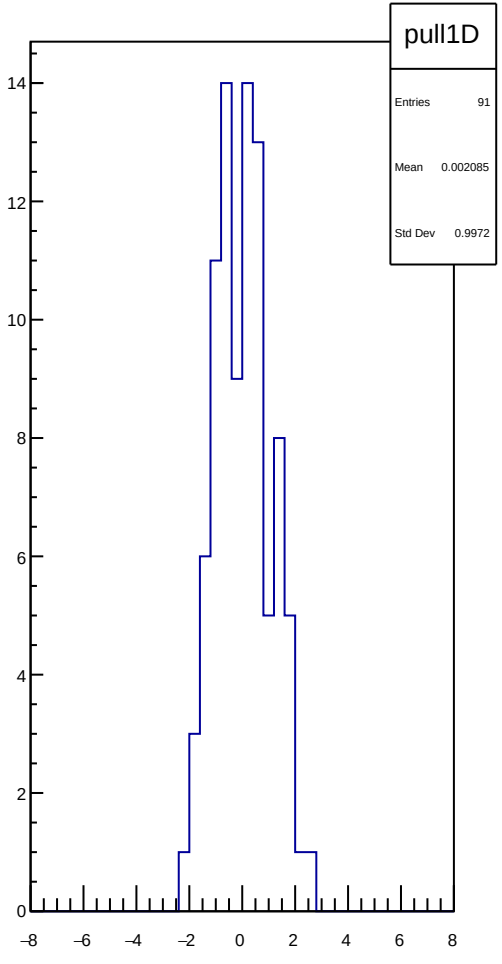

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 422.2 / 90
p0 1757 ± 1.326
1860
1840
1820
1800
1780
1760
1740
1720
1700

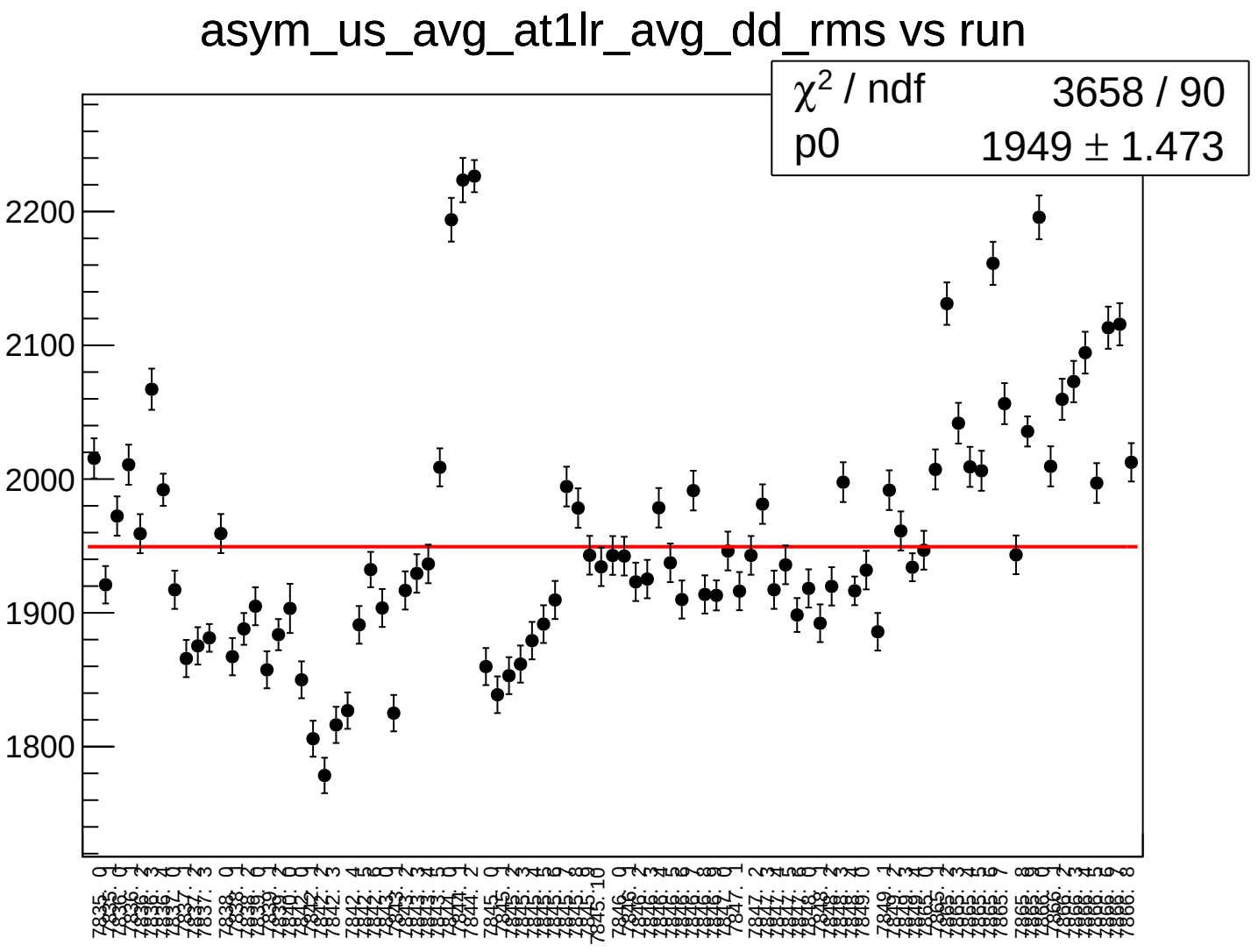

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.46 / 90
p0 −1196 ± 964
pull
Entries 91
Mean −102.4
Std Dev 0

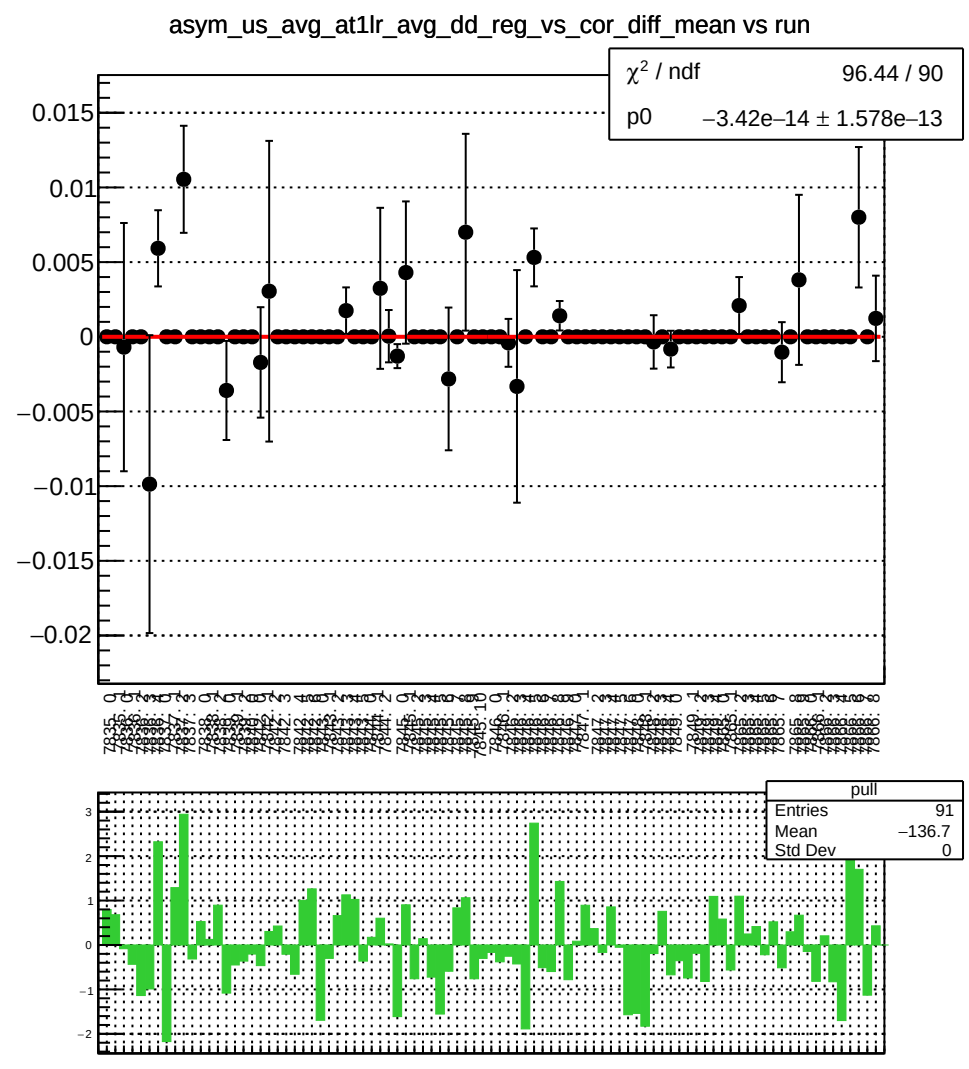

pull1D
Entries 91
Mean 0.01132
Std Dev 1.024

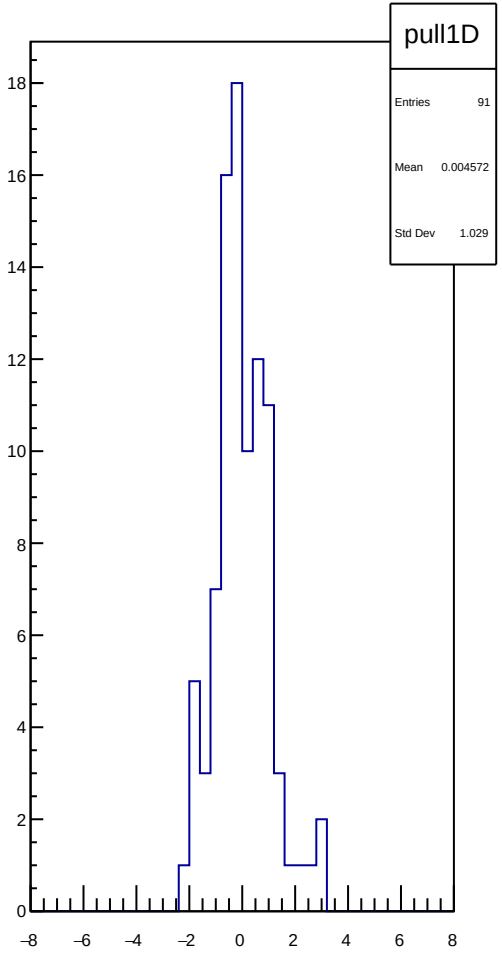

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.331e+04 / 90
p0 894.5 ± 0.6817
1400
1300
1200
1100
1000
900
800
700
600

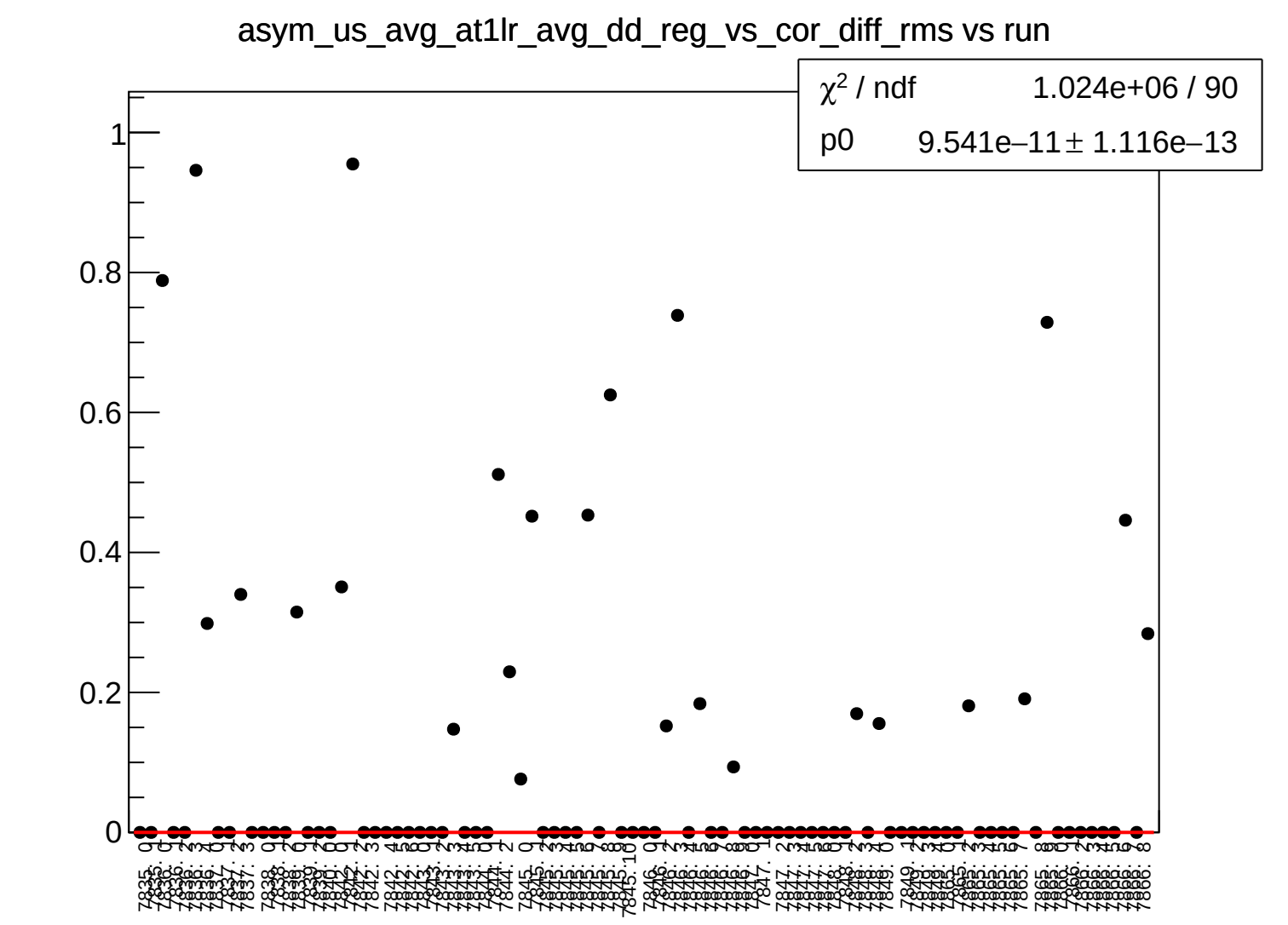

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.49 / 90
p0 96.15 ± 2083
pull
Entries 91
Mean 354.3
Std Dev 0

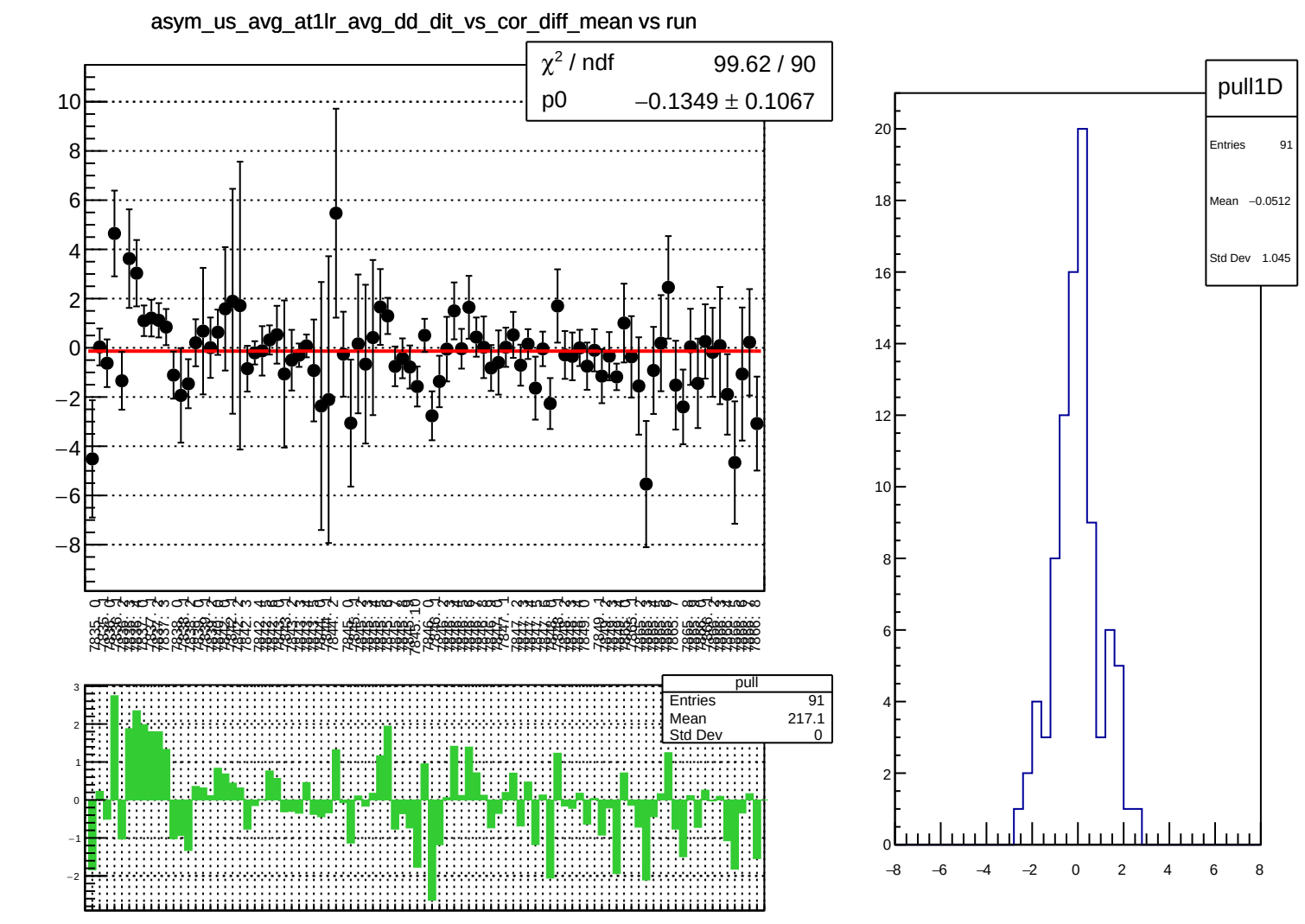

pull1D
Entries 91
Mean 0.002085
Std Dev 0.9972

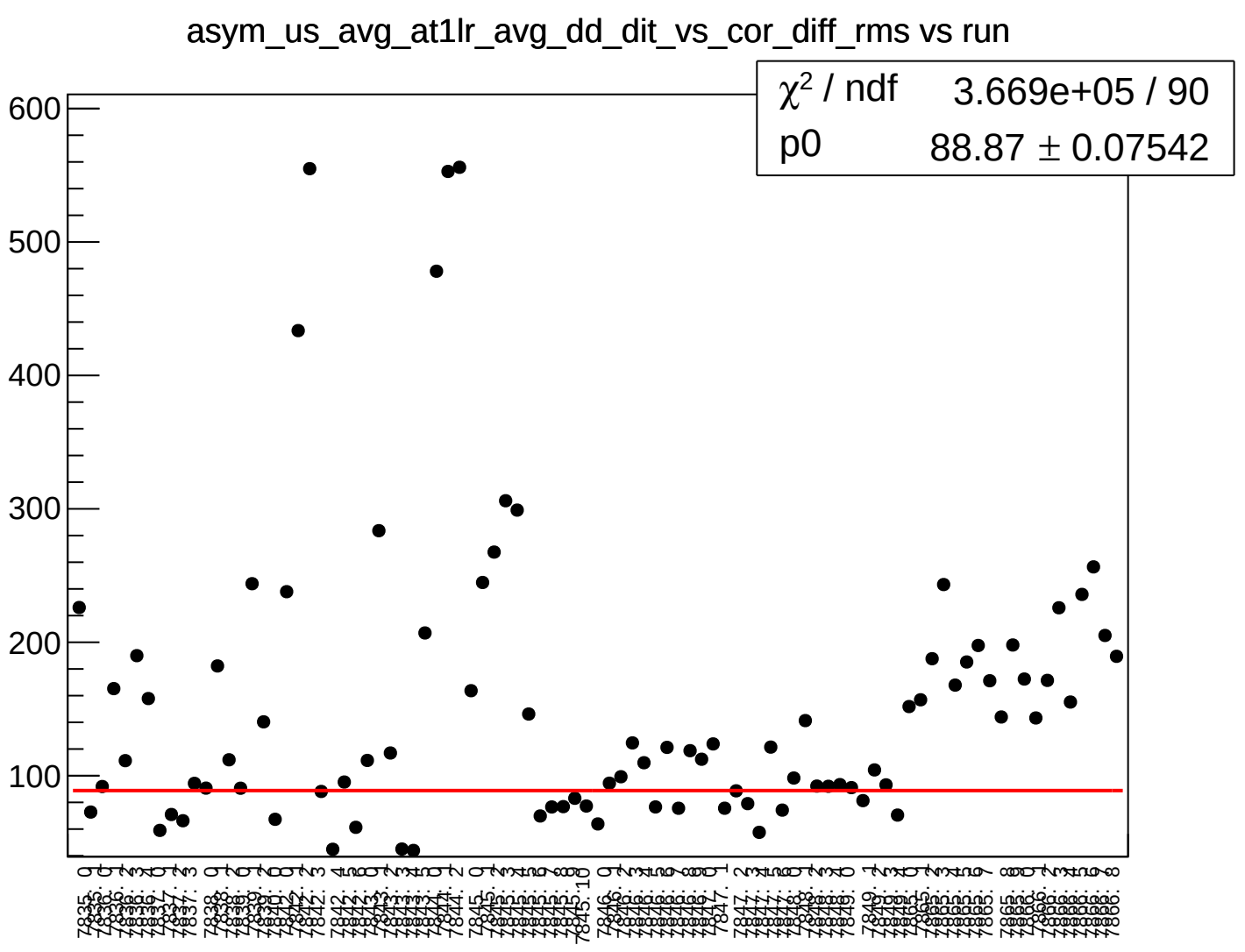

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 3658 / 90
p0 1949 ± 1.473
2200
2100
2000
1900
1800

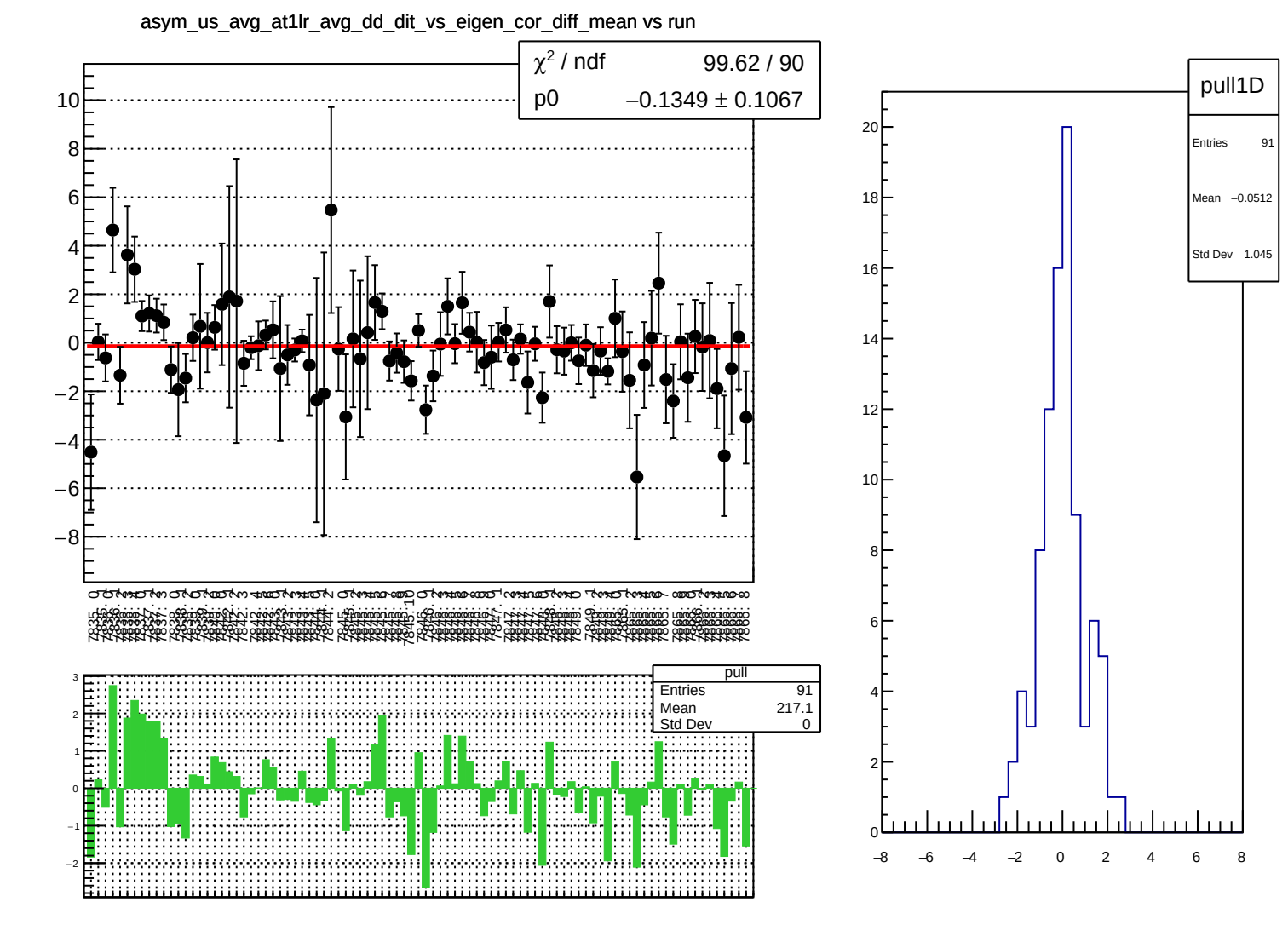

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.44 / 90
p0 −3.42e−14 ± 1.578e−13
pull
Entries 91
Mean −136.7
Std Dev 0

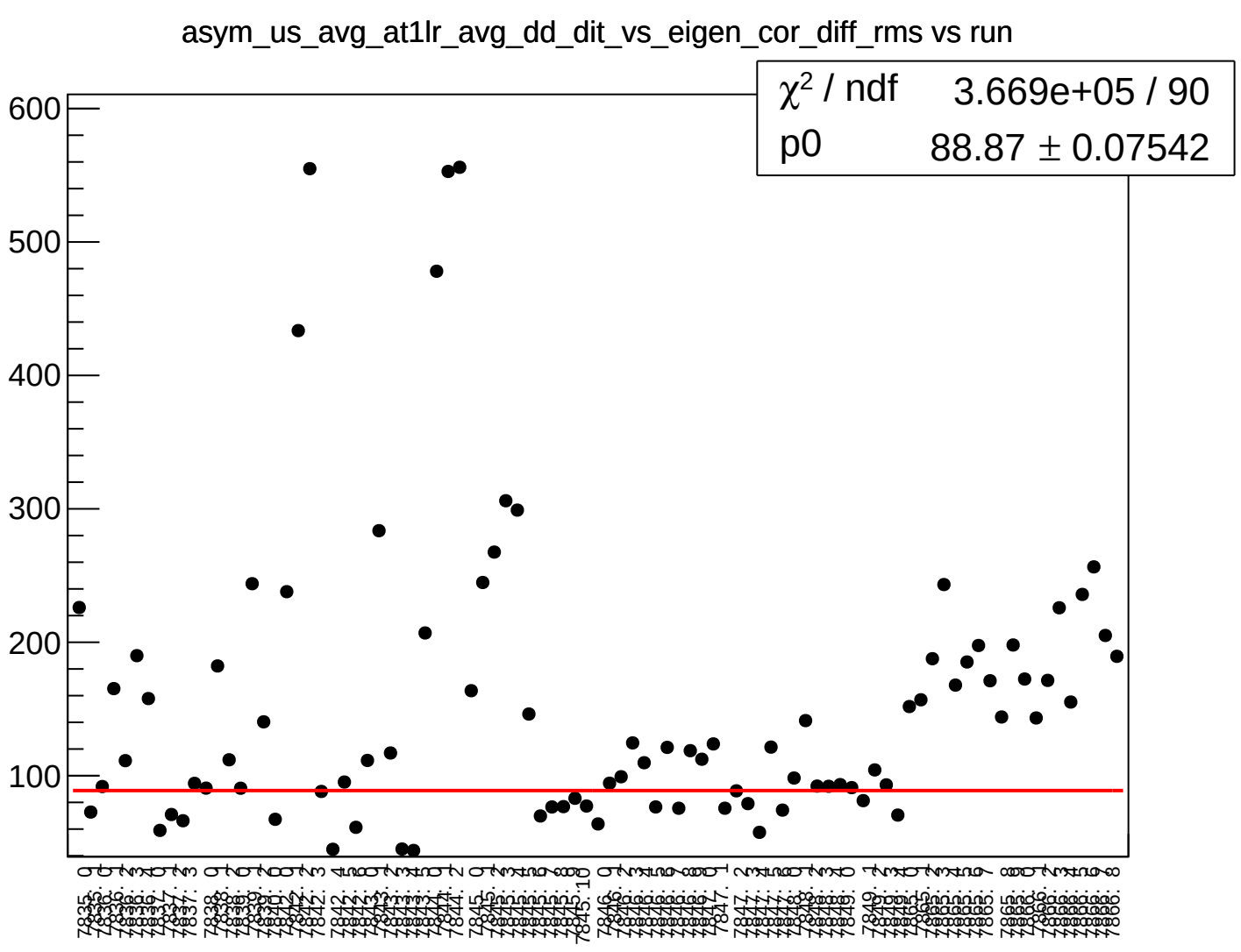

pull1D
Entries 91
Mean 0.004572
Std Dev 1.029

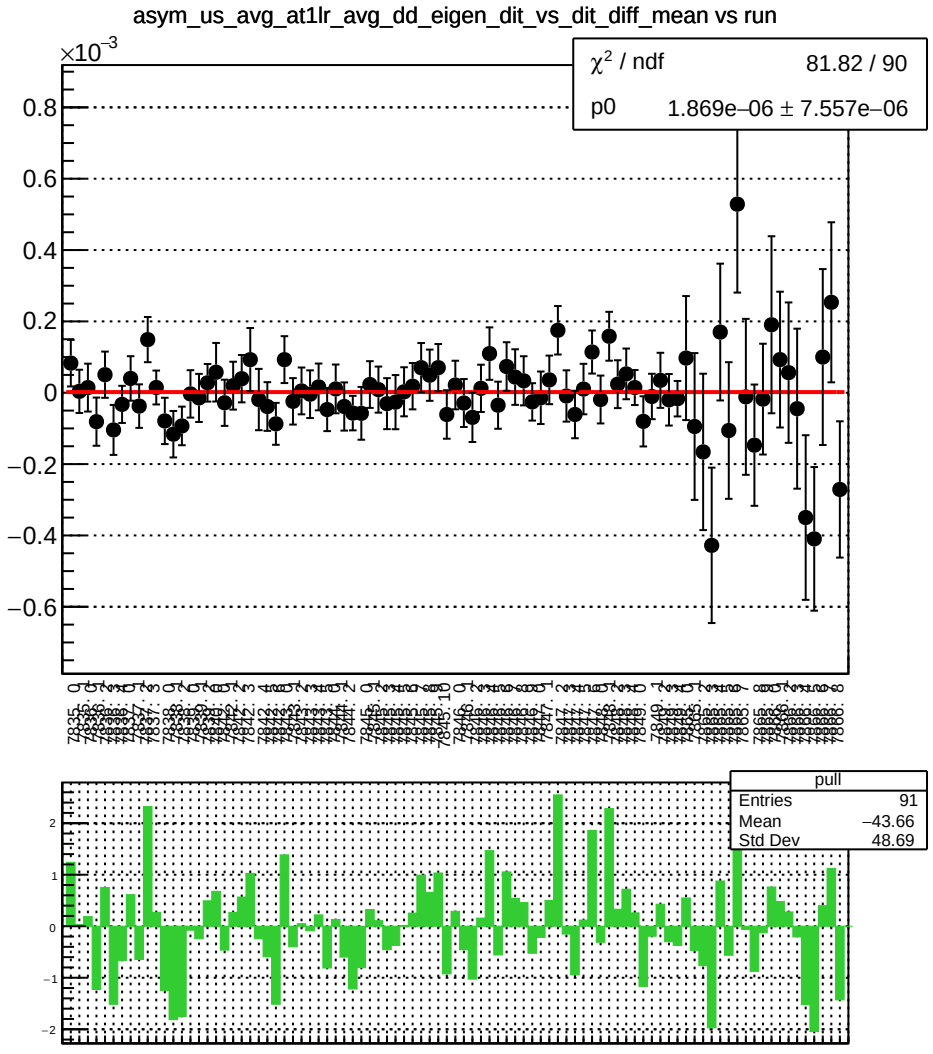

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 90
p0 9.541e−11 ± 1.116e−13
1
0.8
0.6
0.4
0.2
0

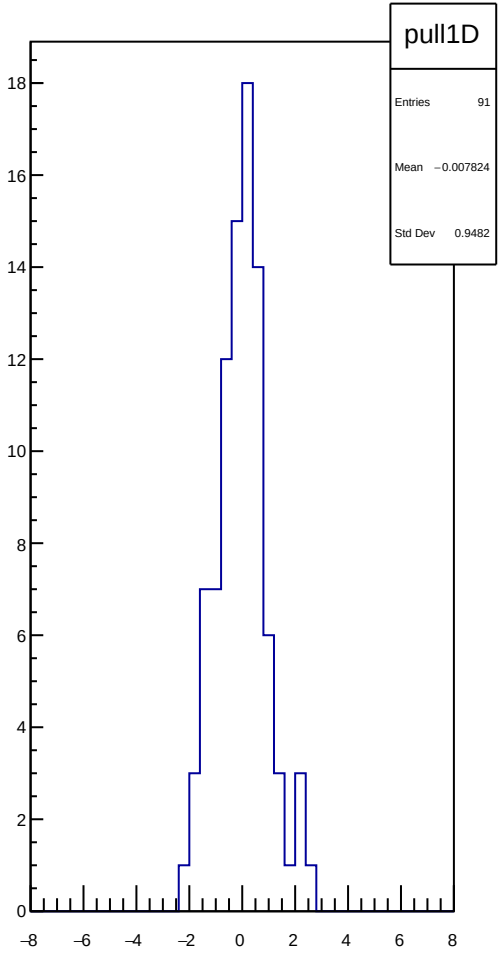

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.1349 ± 0.1067
pull
Entries 91
Mean 217.1
Std Dev 0
pull1D
Entries 91
Mean −0.0512
Std Dev 1.045

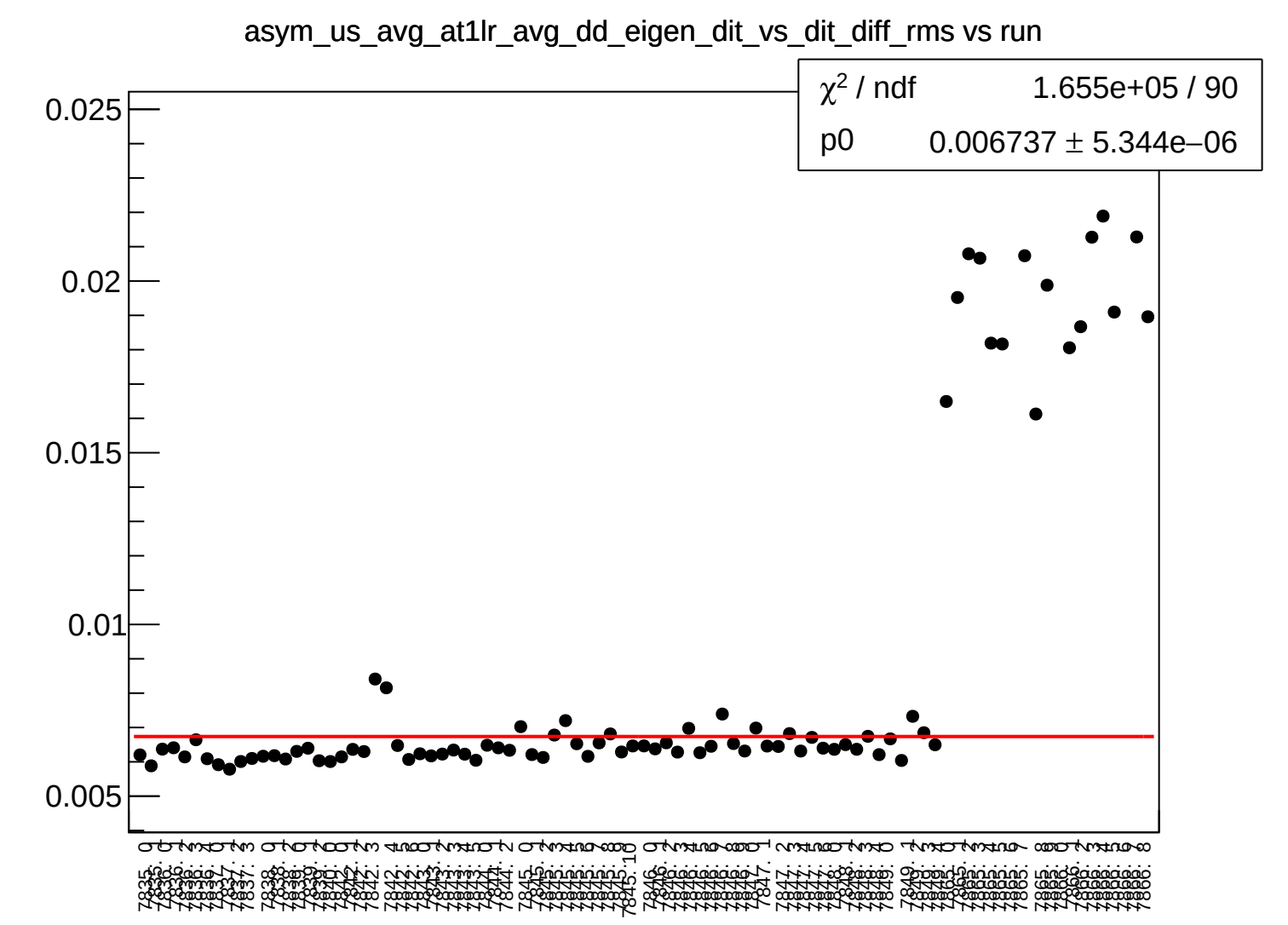

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.669e+05 / 90
p0 88.87 ± 0.07542
600
500
400
300
200
100

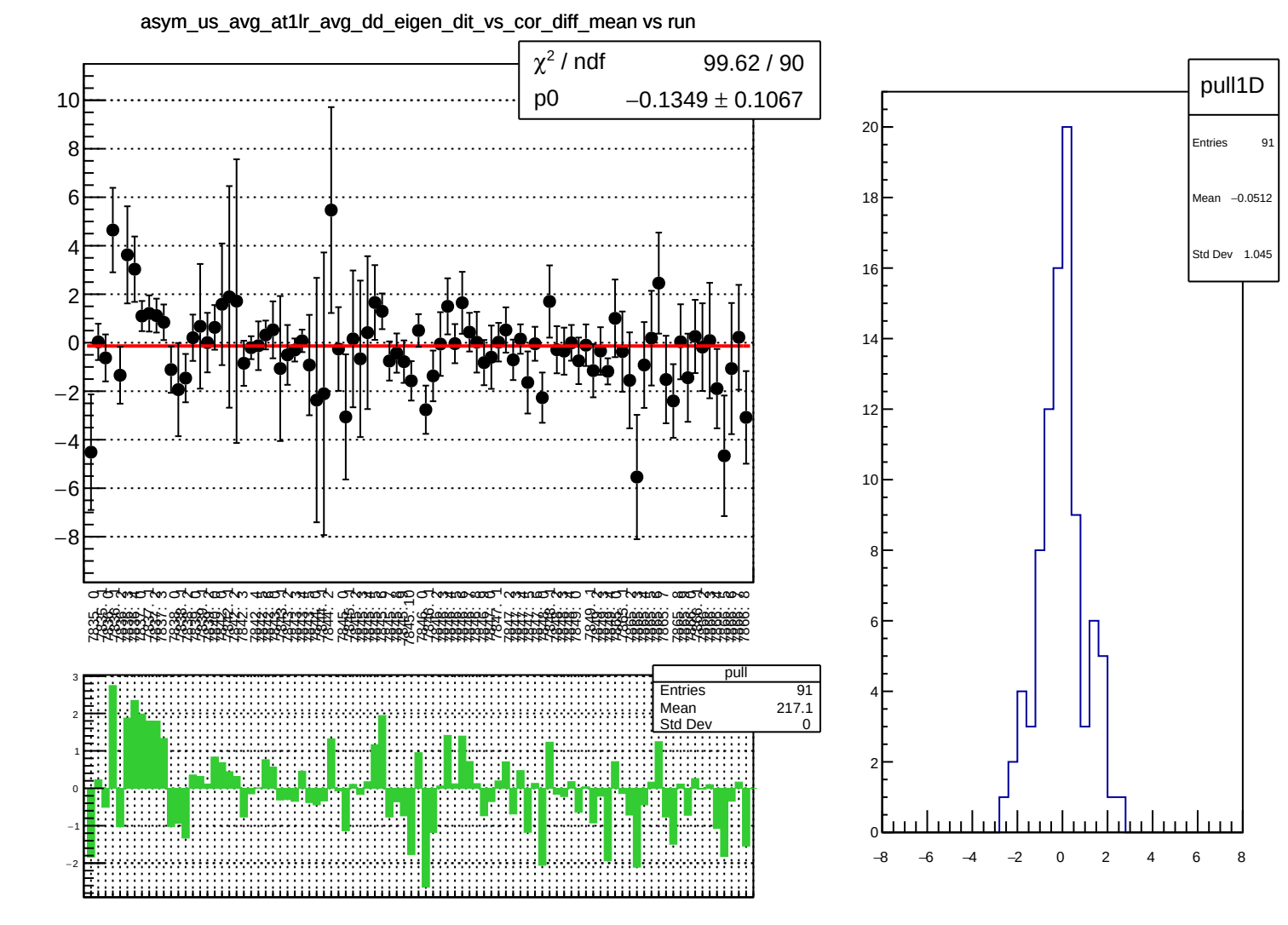

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.1349 ± 0.1067
pull
Entries 91
Mean 217.1
Std Dev 0
pull1D
Entries 91
Mean −0.0512
Std Dev 1.045

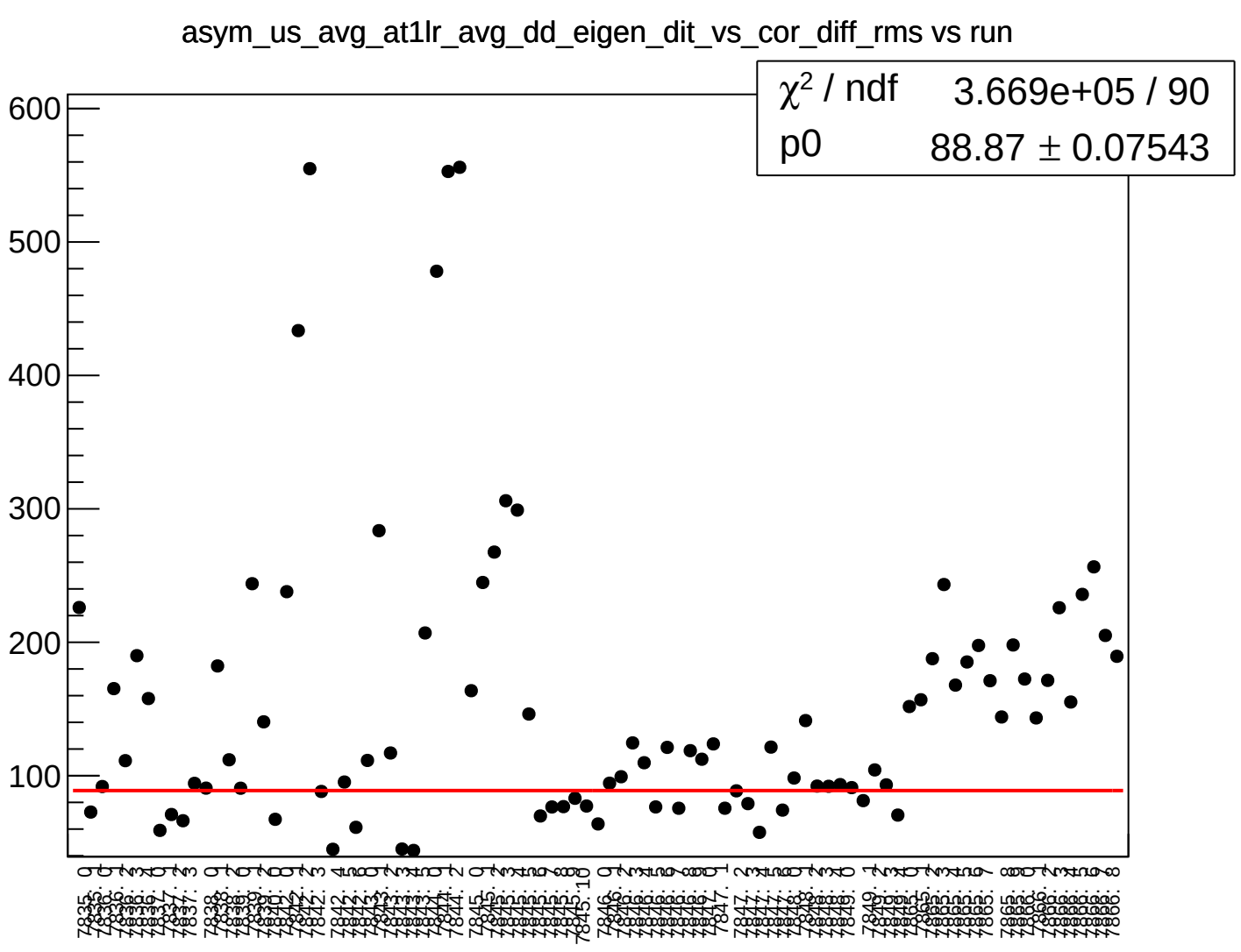

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.669e+05 / 90
p0 88.87 ± 0.07542
600
500
400
300
200
100

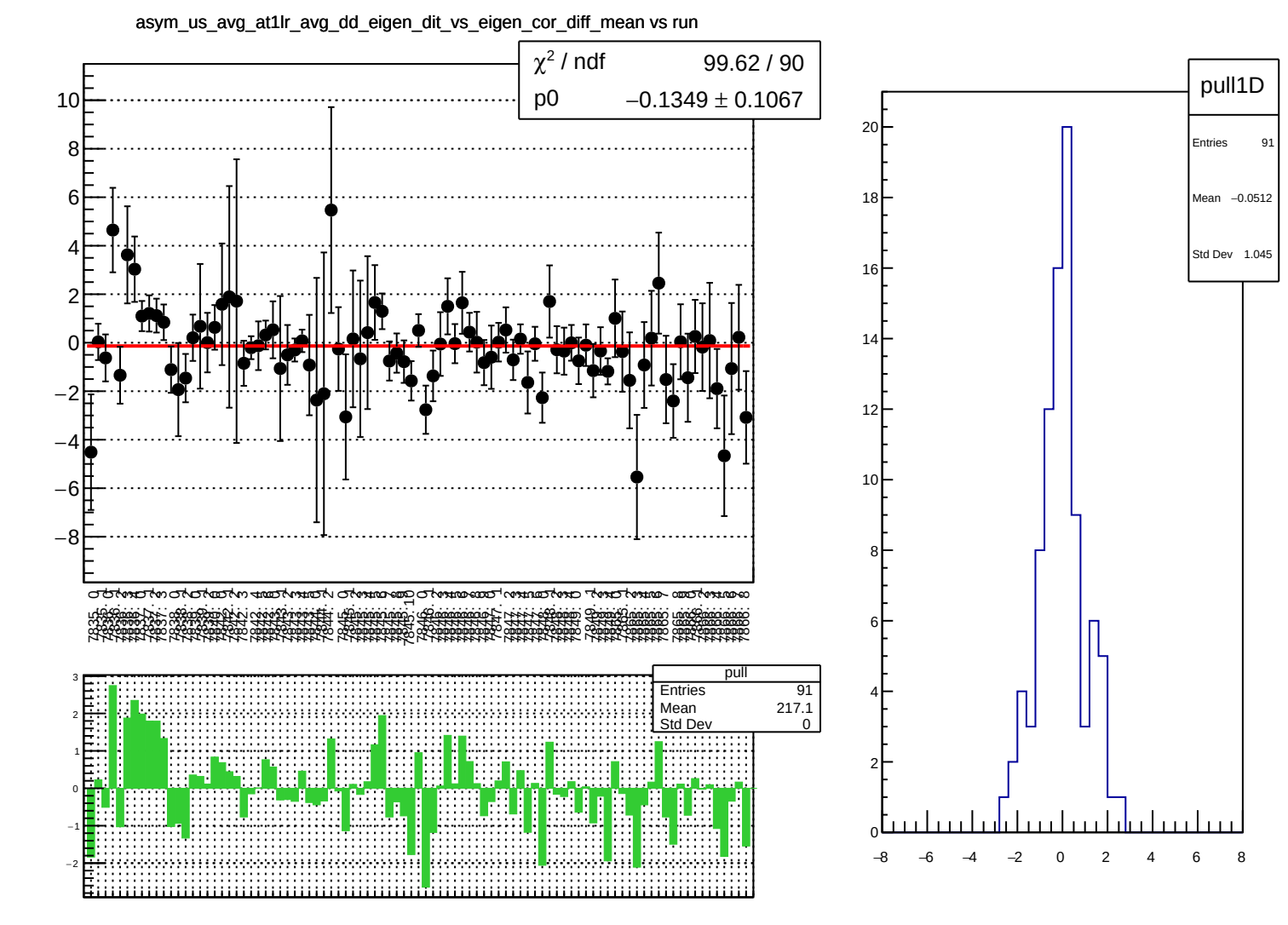

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.82 / 90
p0 1.869e−06 ± 7.557e−06
pull
Entries 91
Mean −43.66
Std Dev 48.69

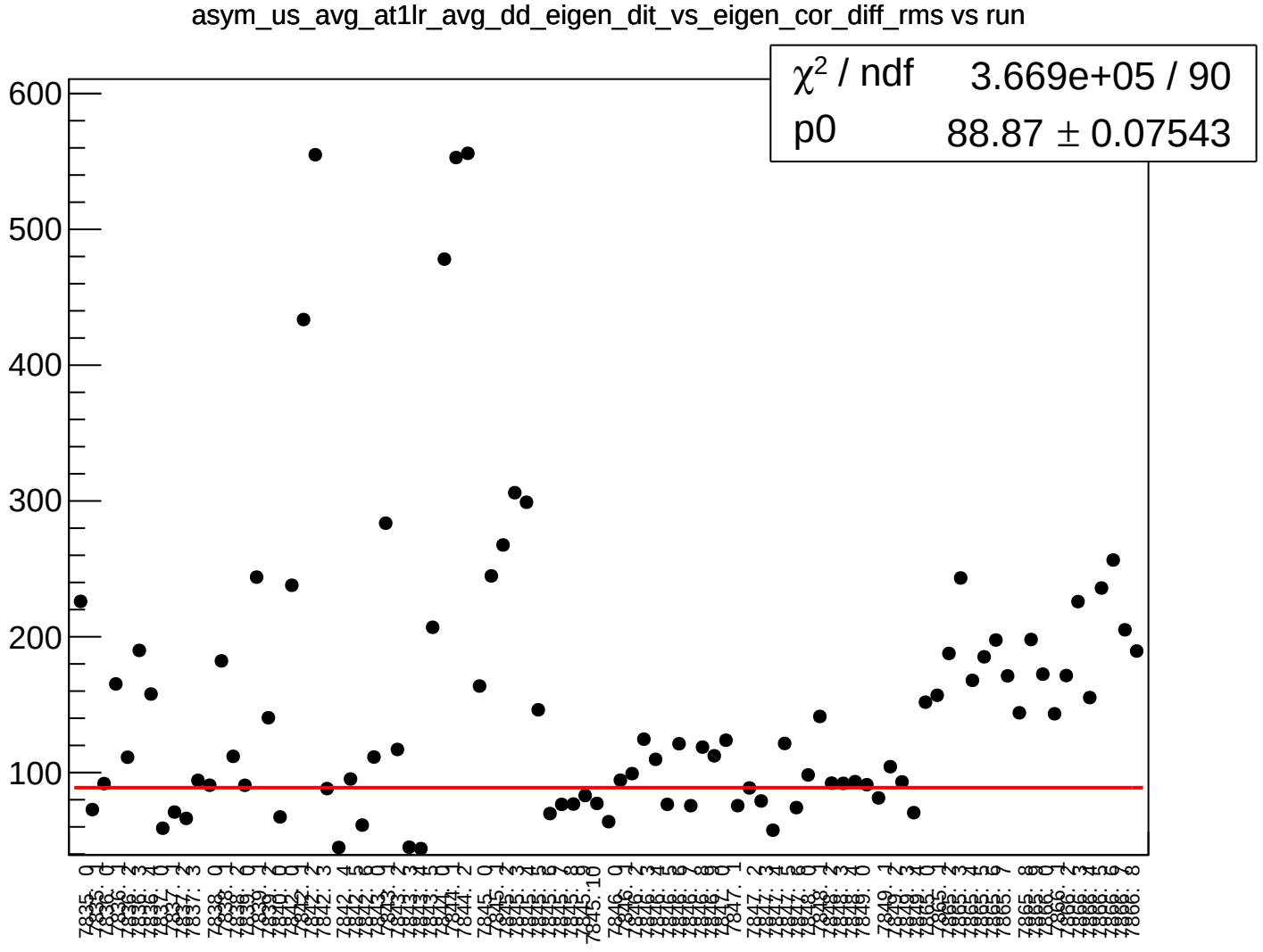

pull1D
Entries 91
Mean −0.007824
Std Dev 0.9482

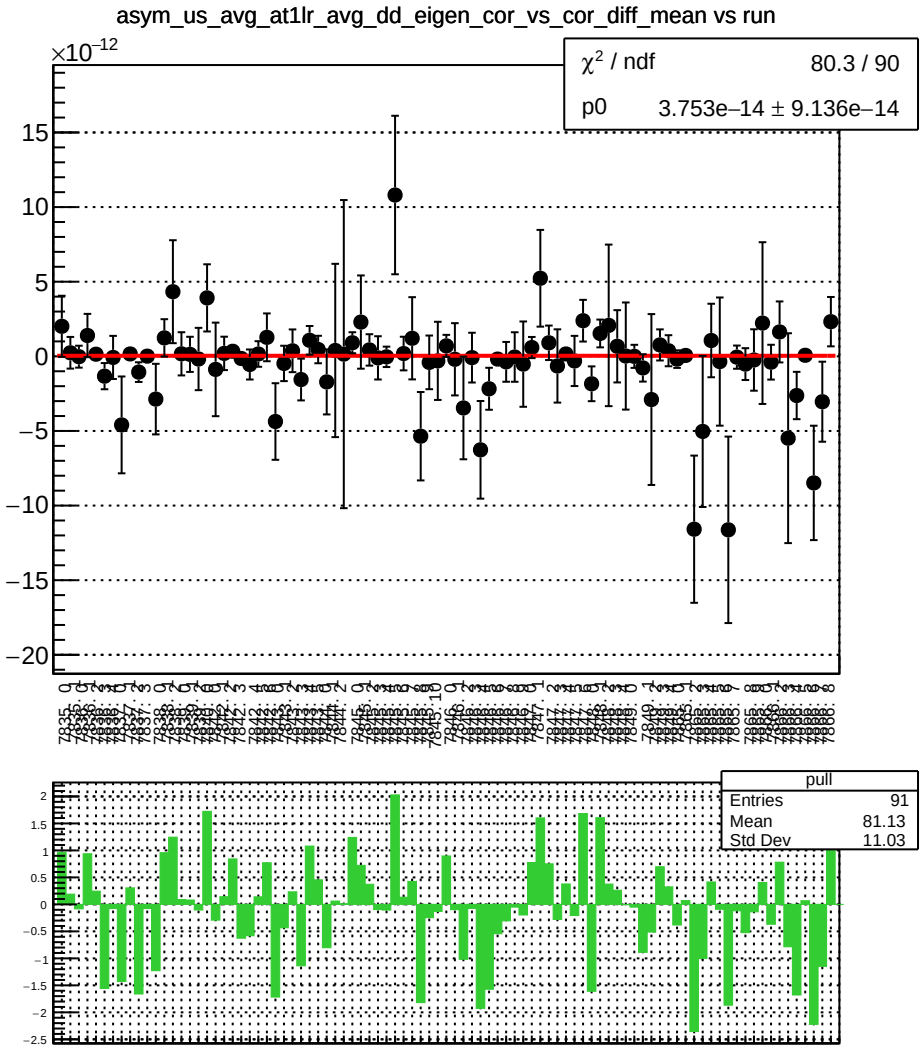

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.655e+05 / 90
p0 0.006737 ± 5.344e−06
0.025
0.02
0.015
0.01
0.005

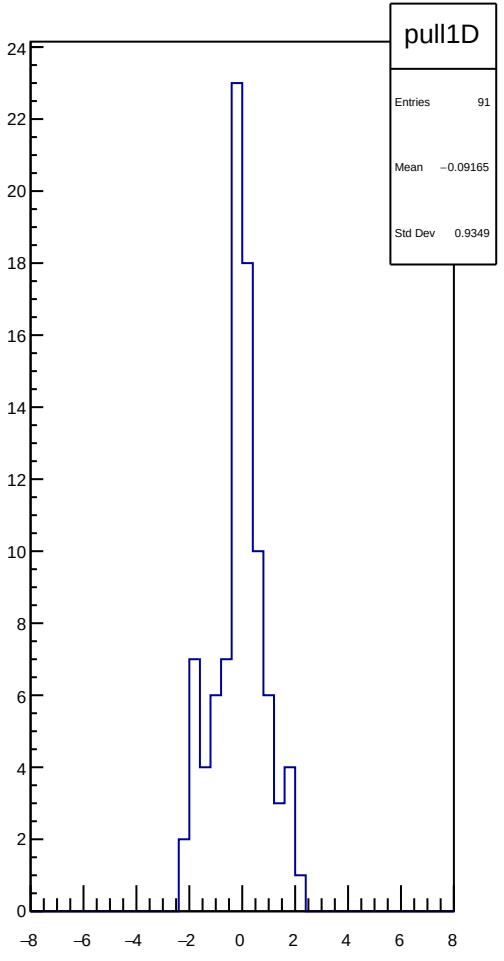

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.1349 ± 0.1067
pull
Entries 91
Mean 217.1
Std Dev 0
pull1D
Entries 91
Mean −0.0512
Std Dev 1.045

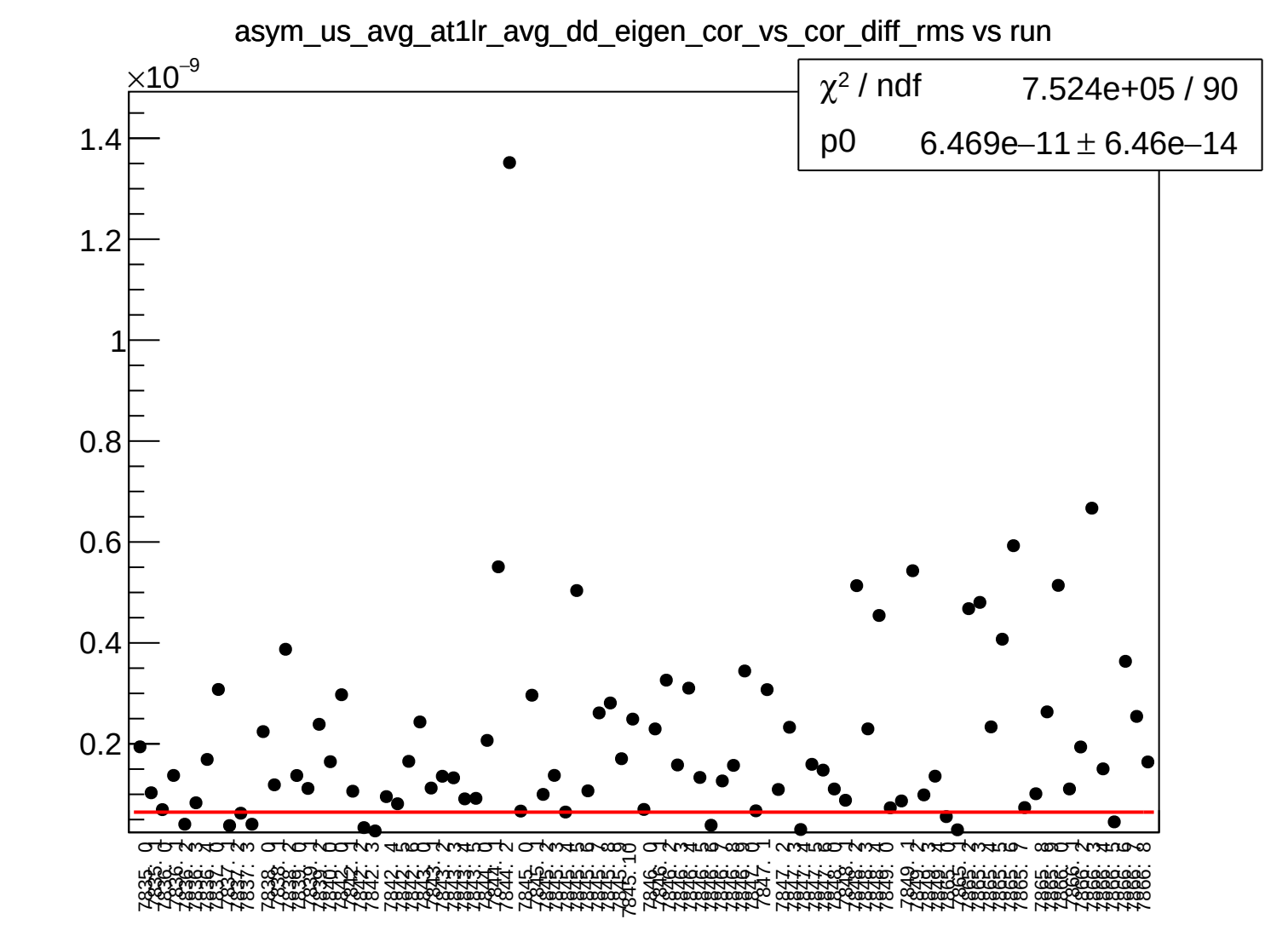

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.669e+05 / 90
p0 88.87 ± 0.07543
600
500
400
300
200
100

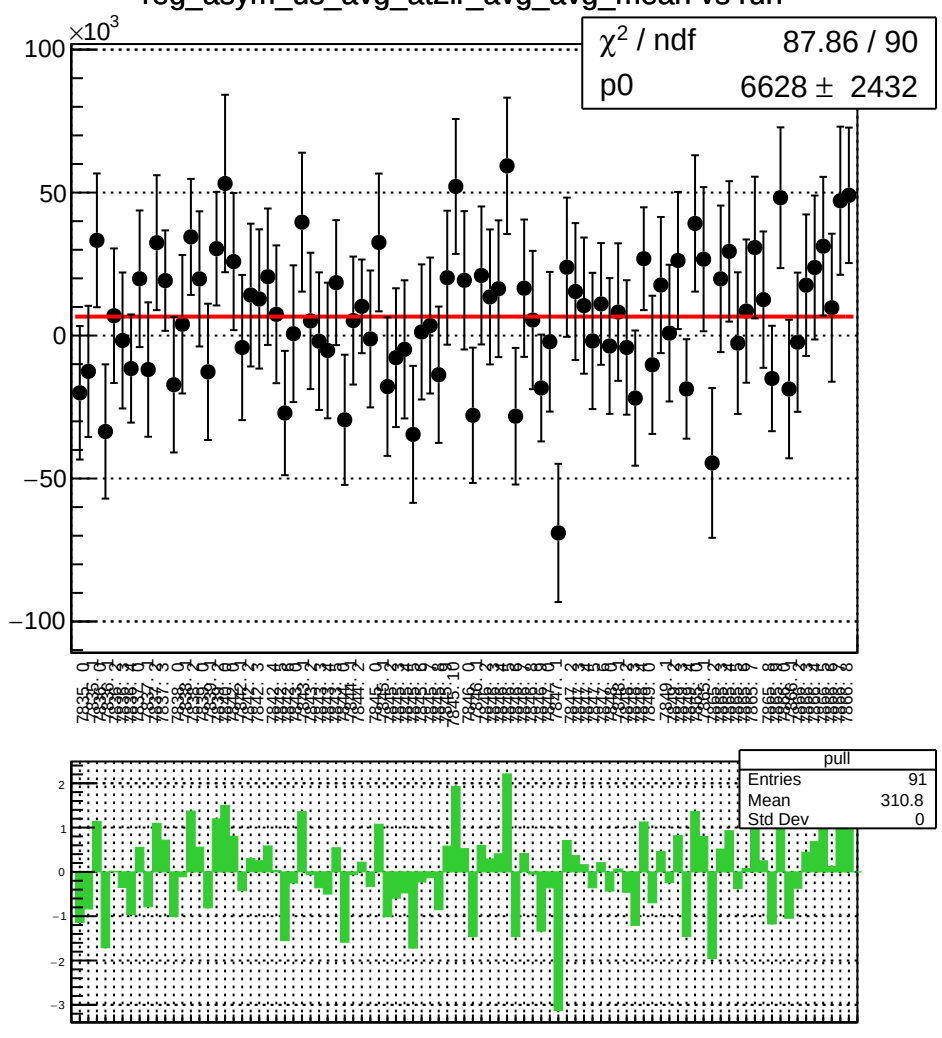

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.1349 ± 0.1067
pull
Entries 91
Mean 217.1
Std Dev 0
pull1D
Entries 91
Mean −0.0512
Std Dev 1.045

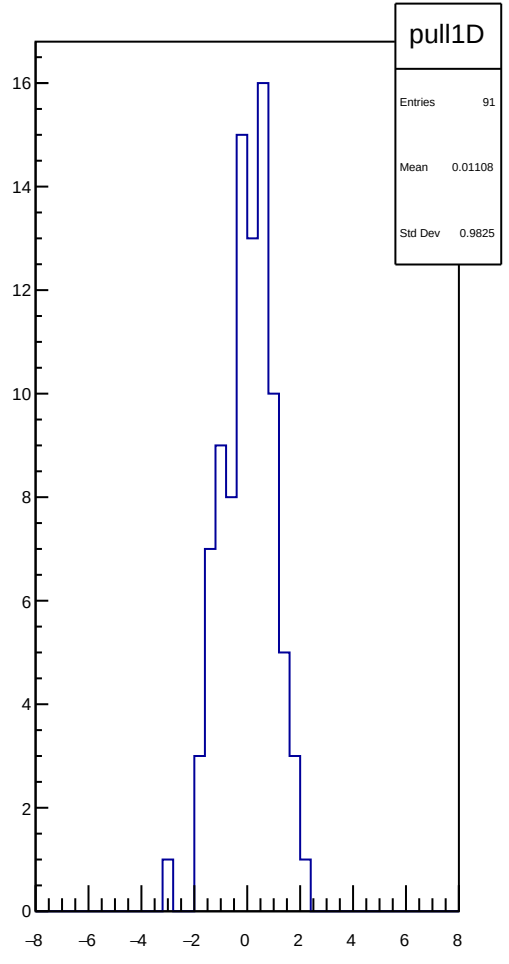

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.669e+05 / 90
p0 88.87 ± 0.07543
600
500
400
300
200
100

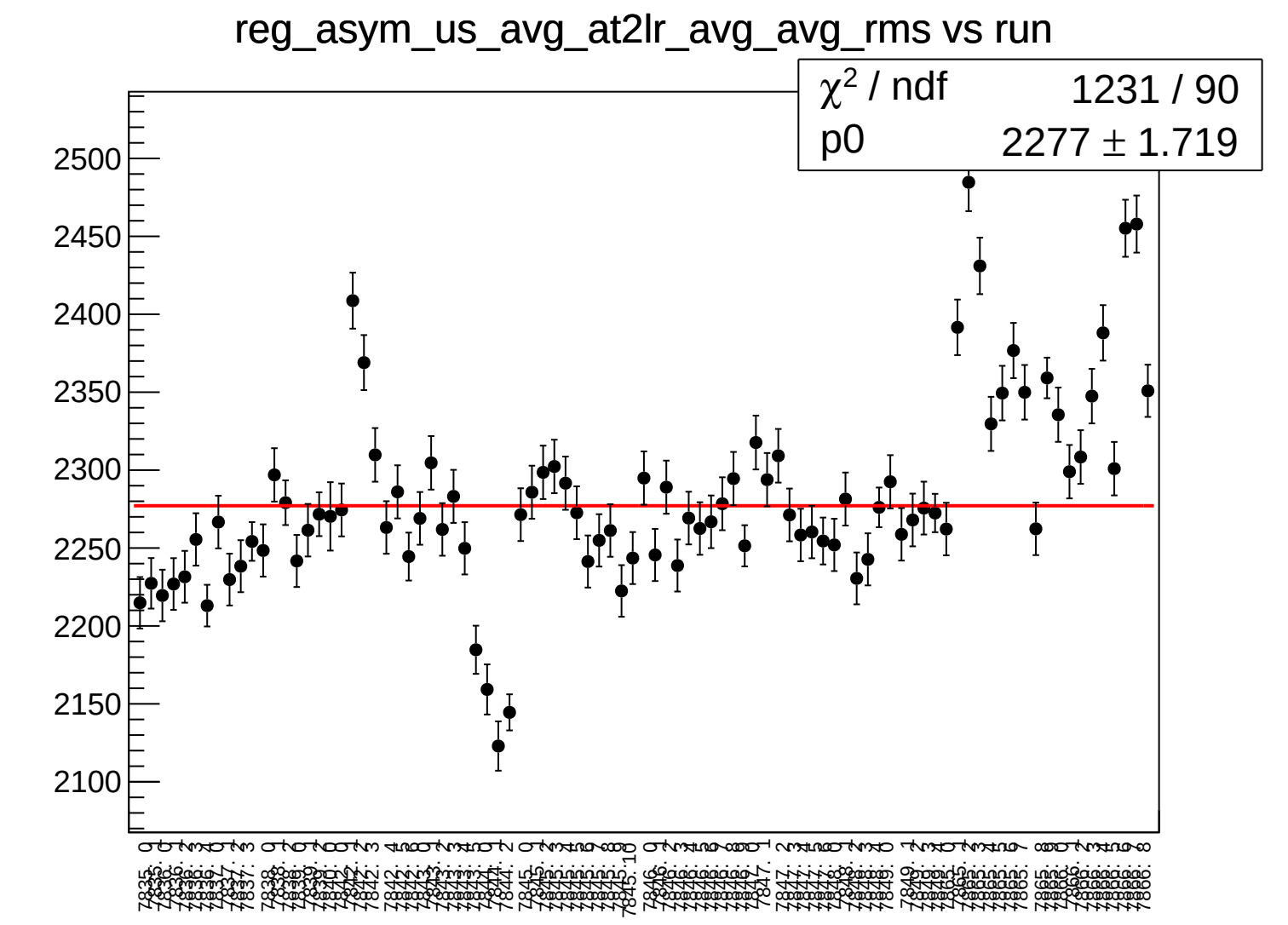

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.3 / 90
p0 3.753e−14 ± 9.136e−14
pull
Entries 91
Mean 81.13
Std Dev 11.03

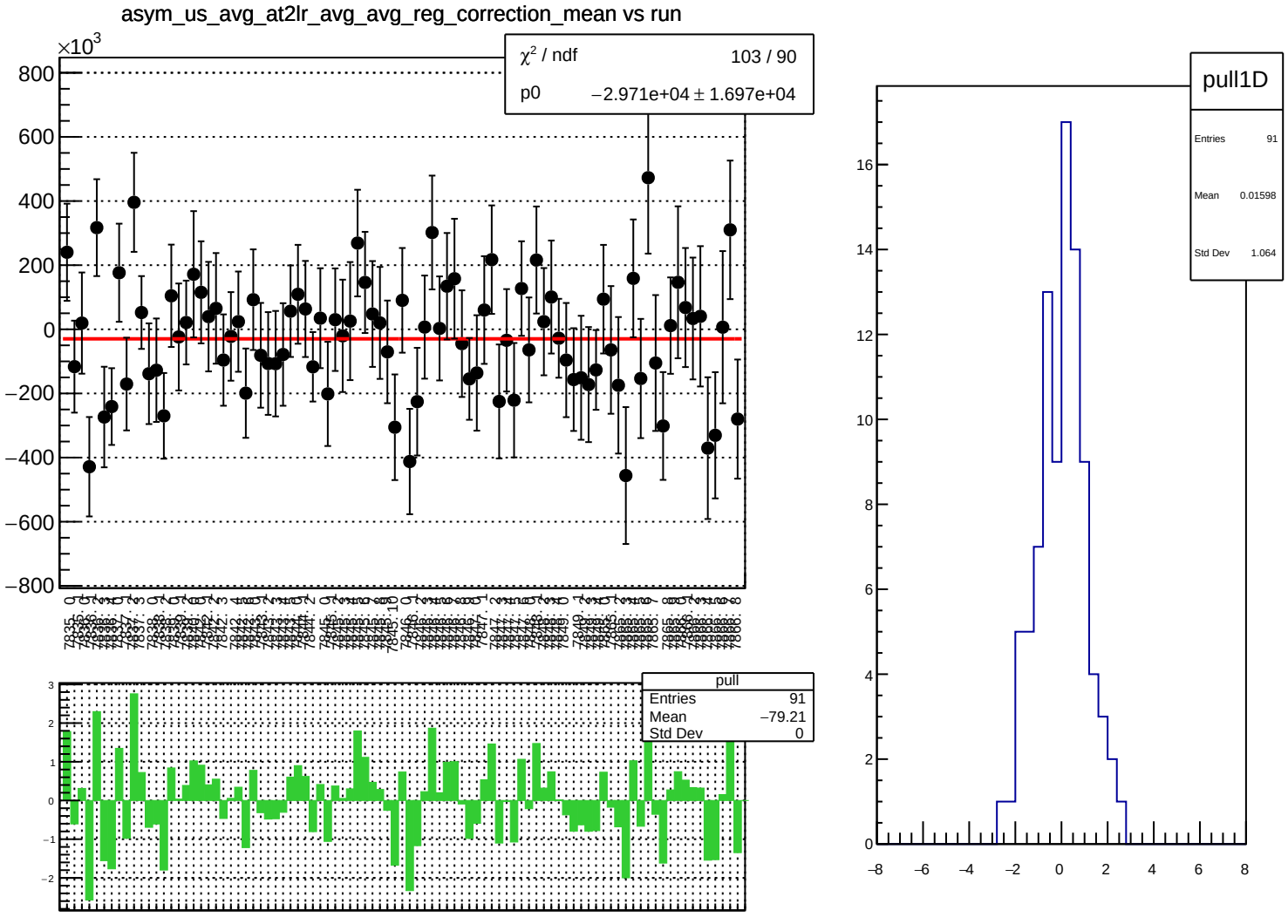

pull1D
Entries 91
Mean −0.09165
Std Dev 0.9349

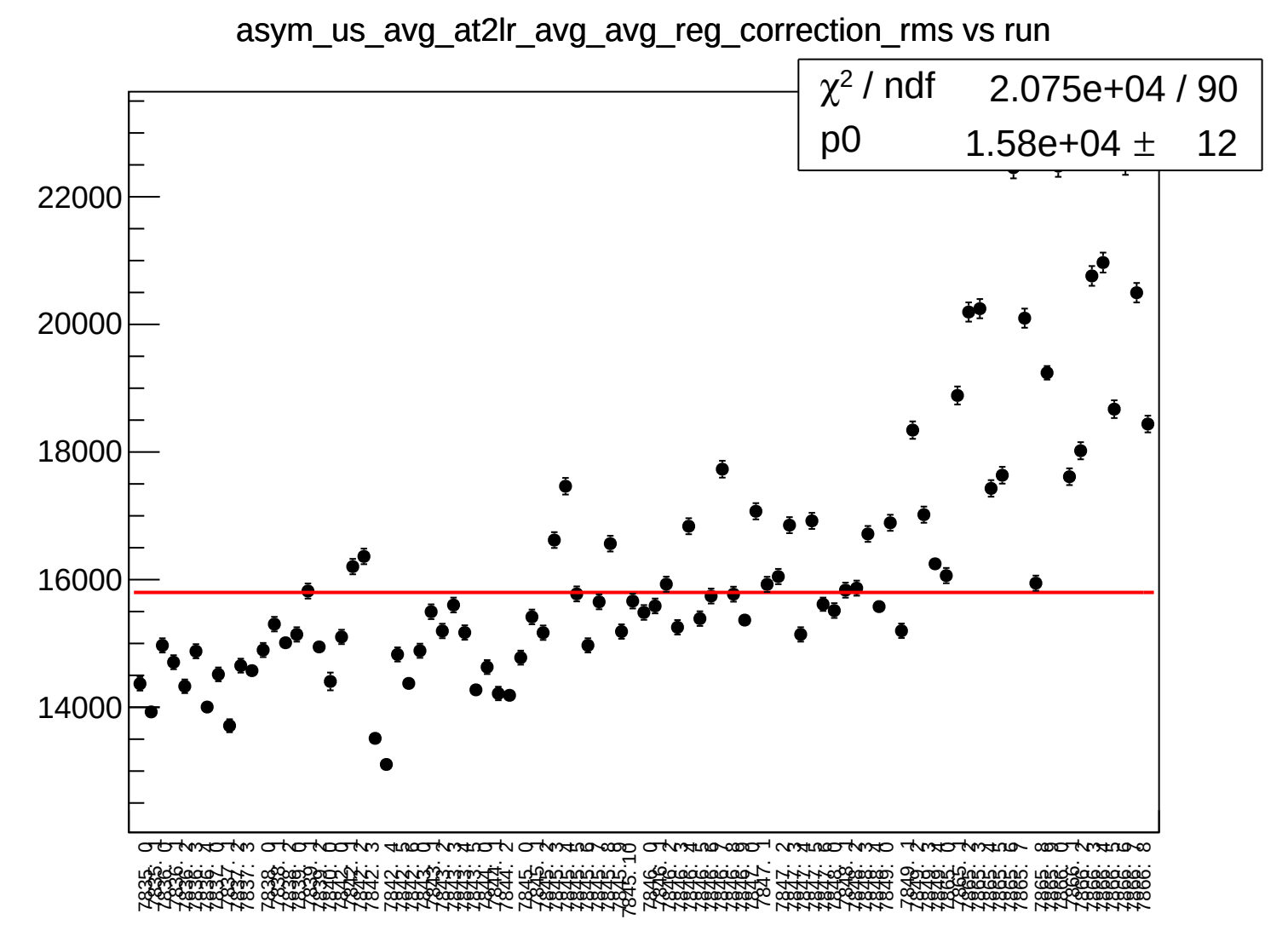

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.524e+05 / 90
p0 6.469e−11 ± 6.46e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

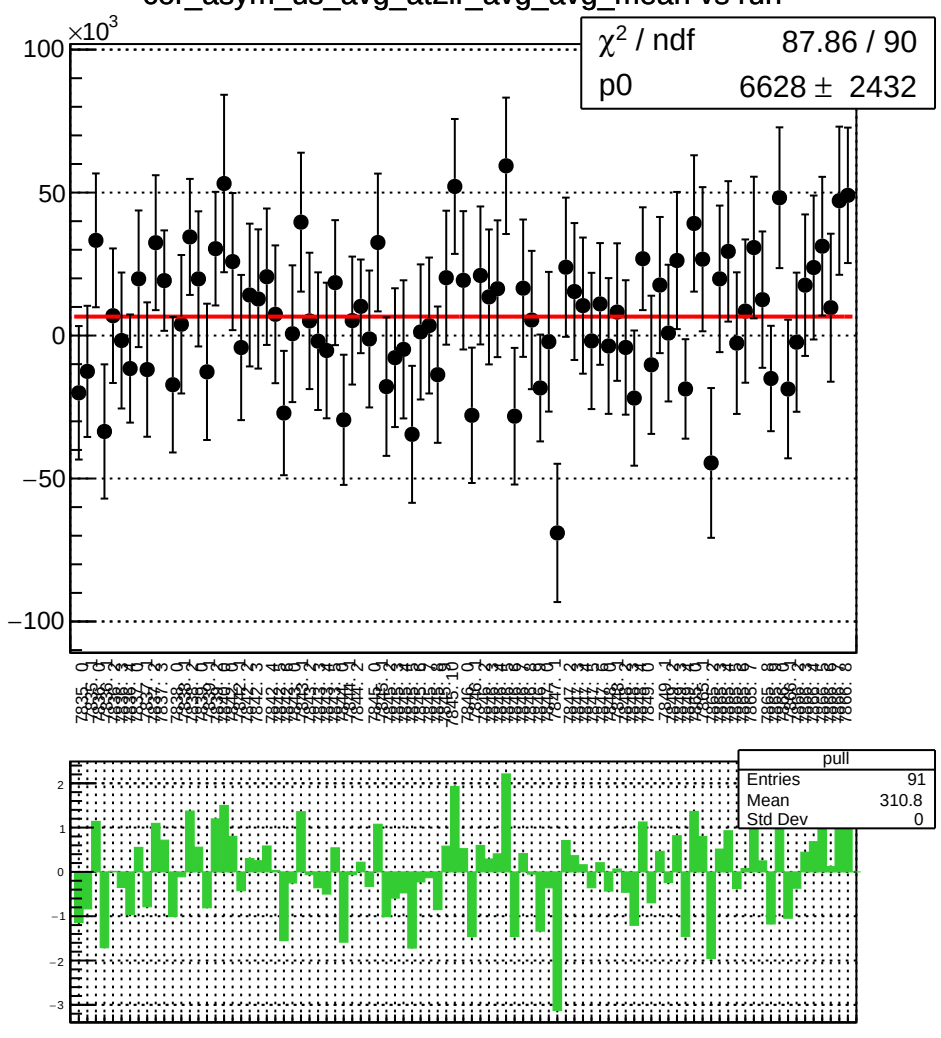

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.86 / 90
p0 6628 ± 2432
pull
Entries 91
Mean 310.8
Std Dev 0
2
1
0
−1
−2
−3

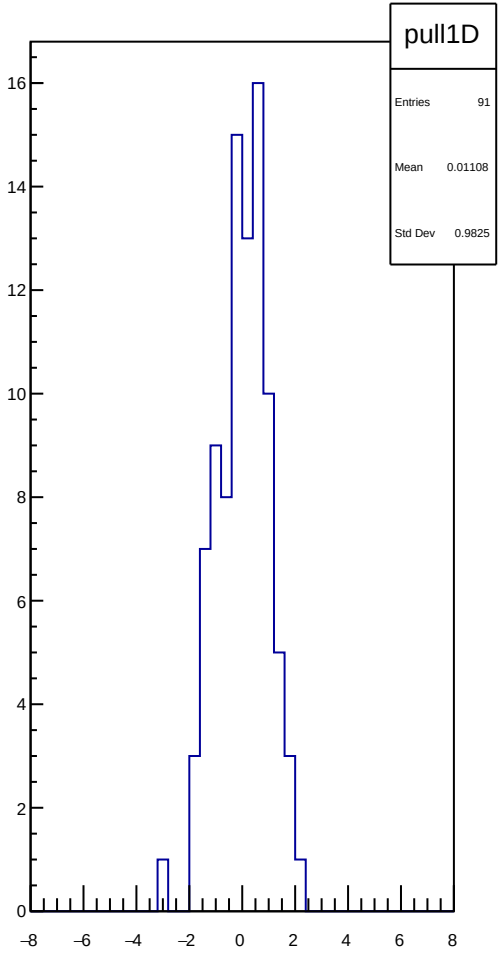

pull1D
Entries 91
Mean 0.01108
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

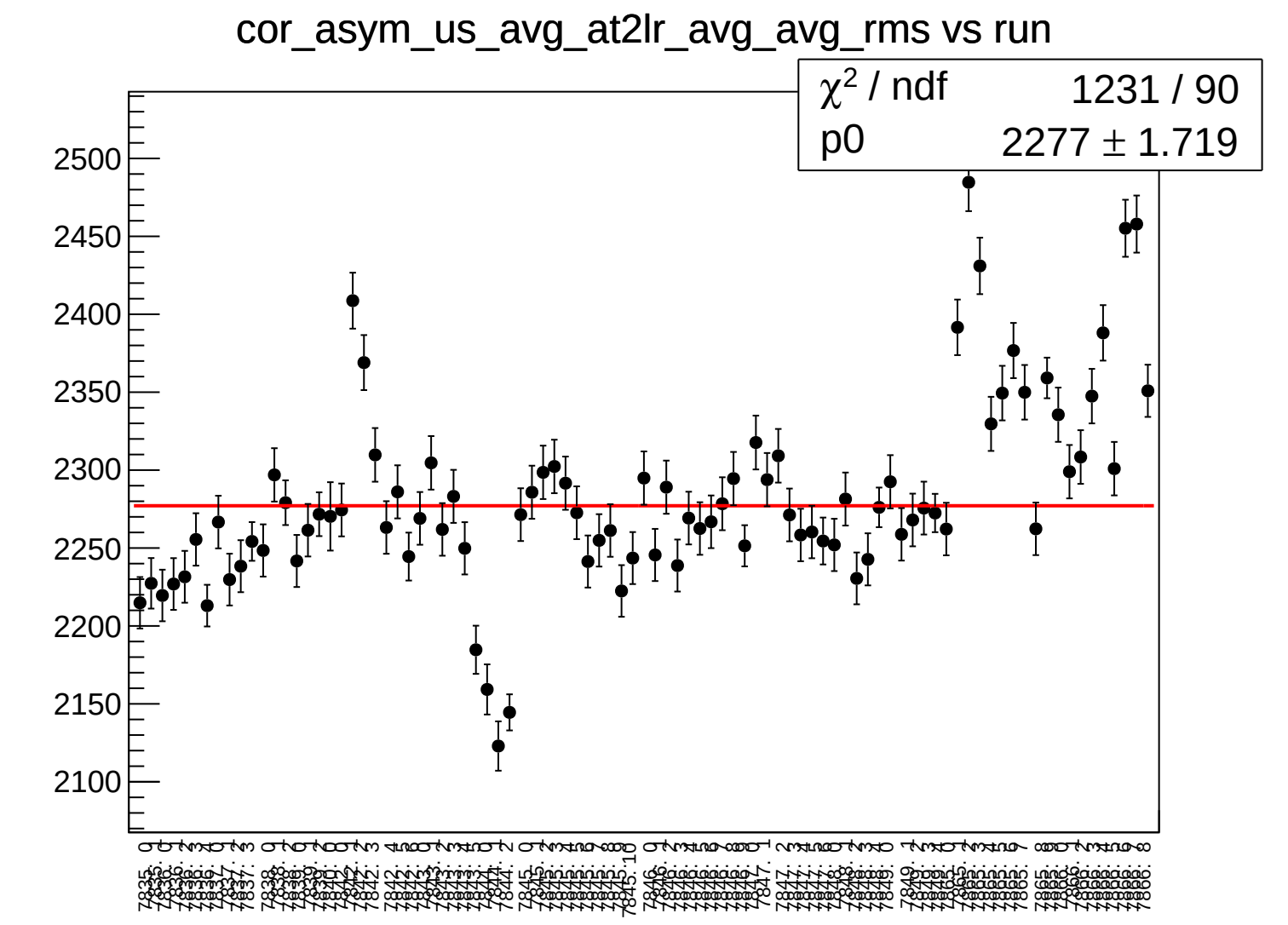

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1231 / 90
p0 2277 ± 1.719
2500
2450
2400
2350
2300
2250
2200
2150
2100

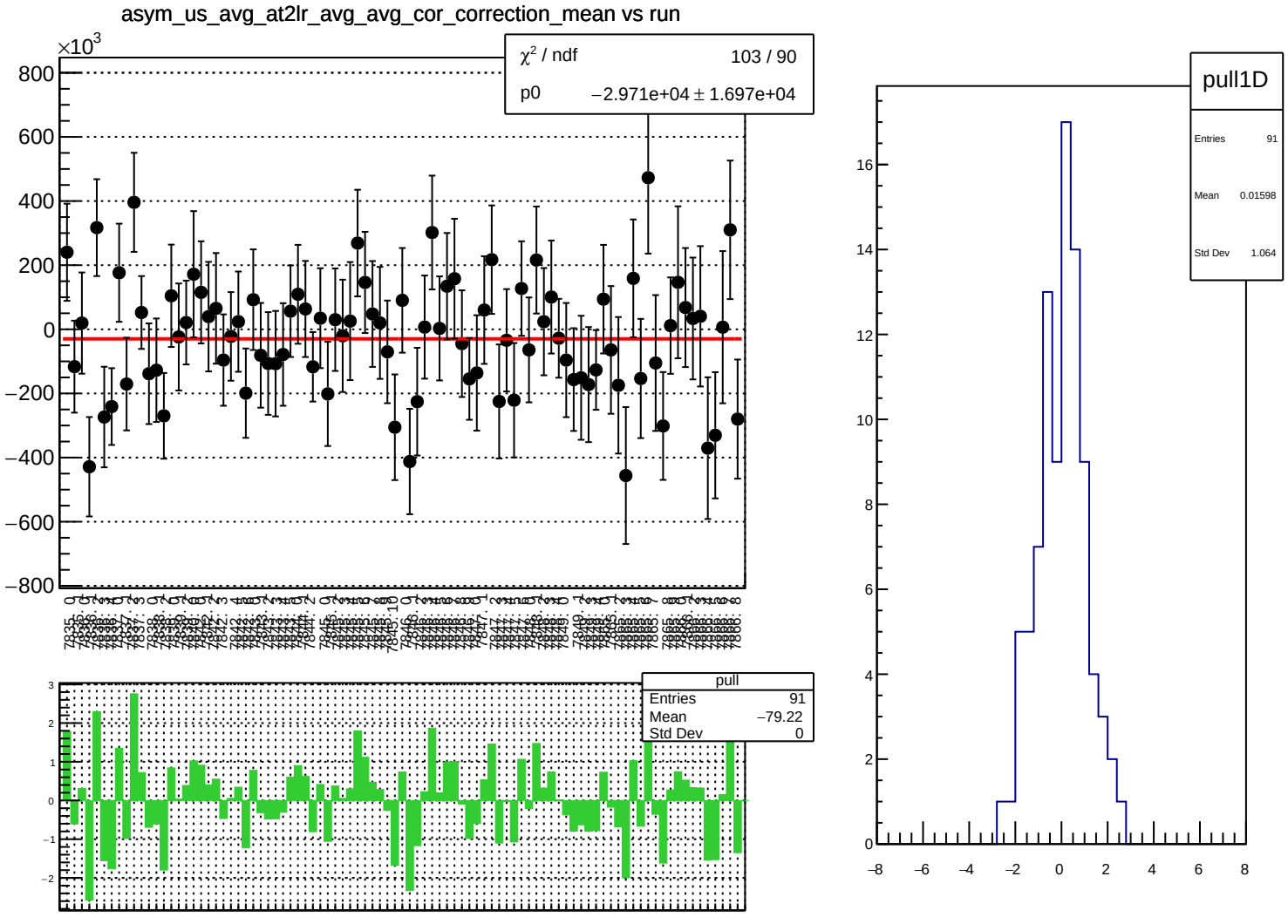

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103 / 90
p0 −2.971e+04 ± 1.697e+04
pull
Entries 91
Mean −79.21
Std Dev 0
pull1D
Entries 91
Mean 0.01598
Std Dev 1.064

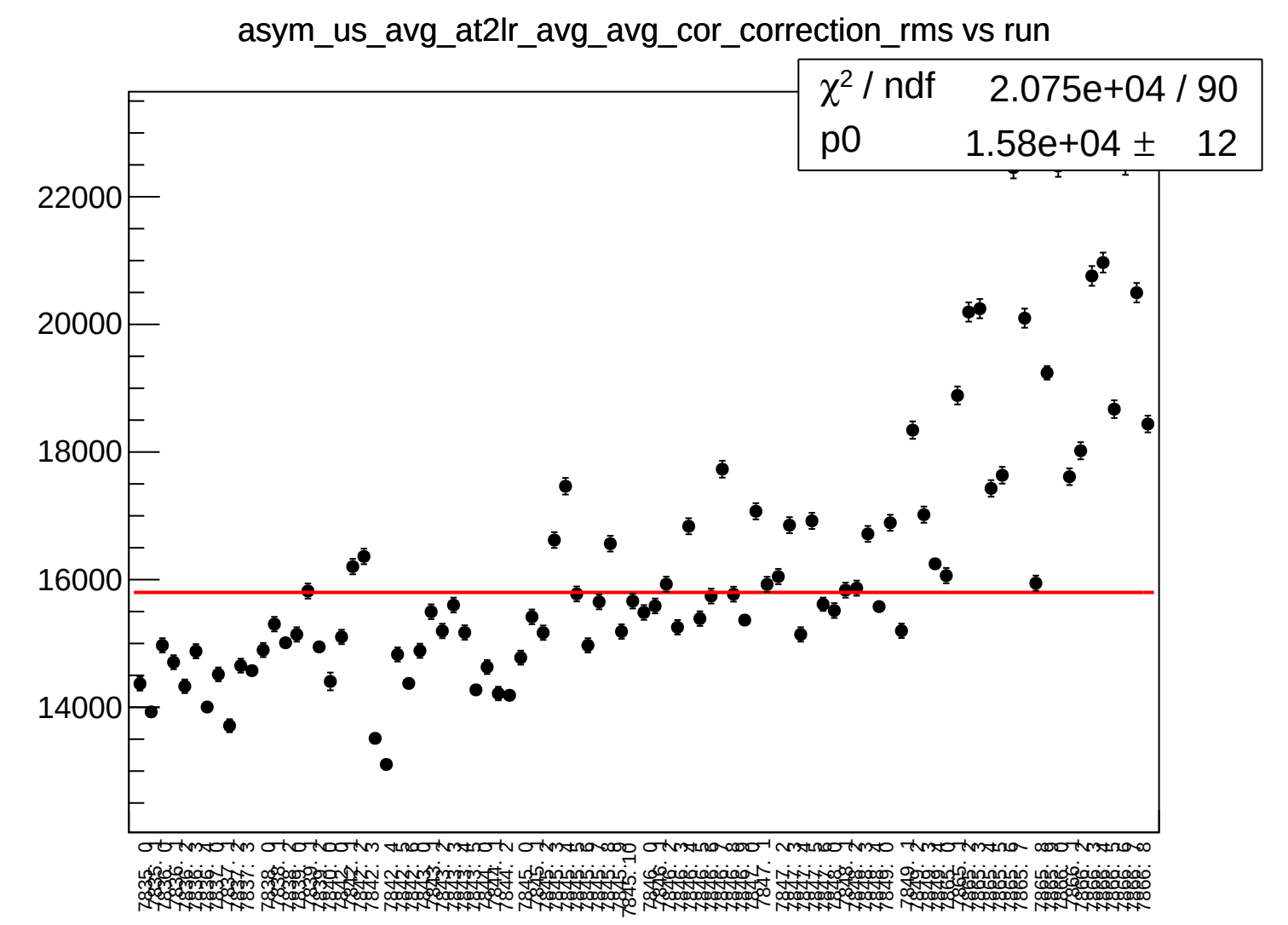

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.075e+04 / 90
p0 1.58e+04 ± 12
22000
20000
18000
16000
14000

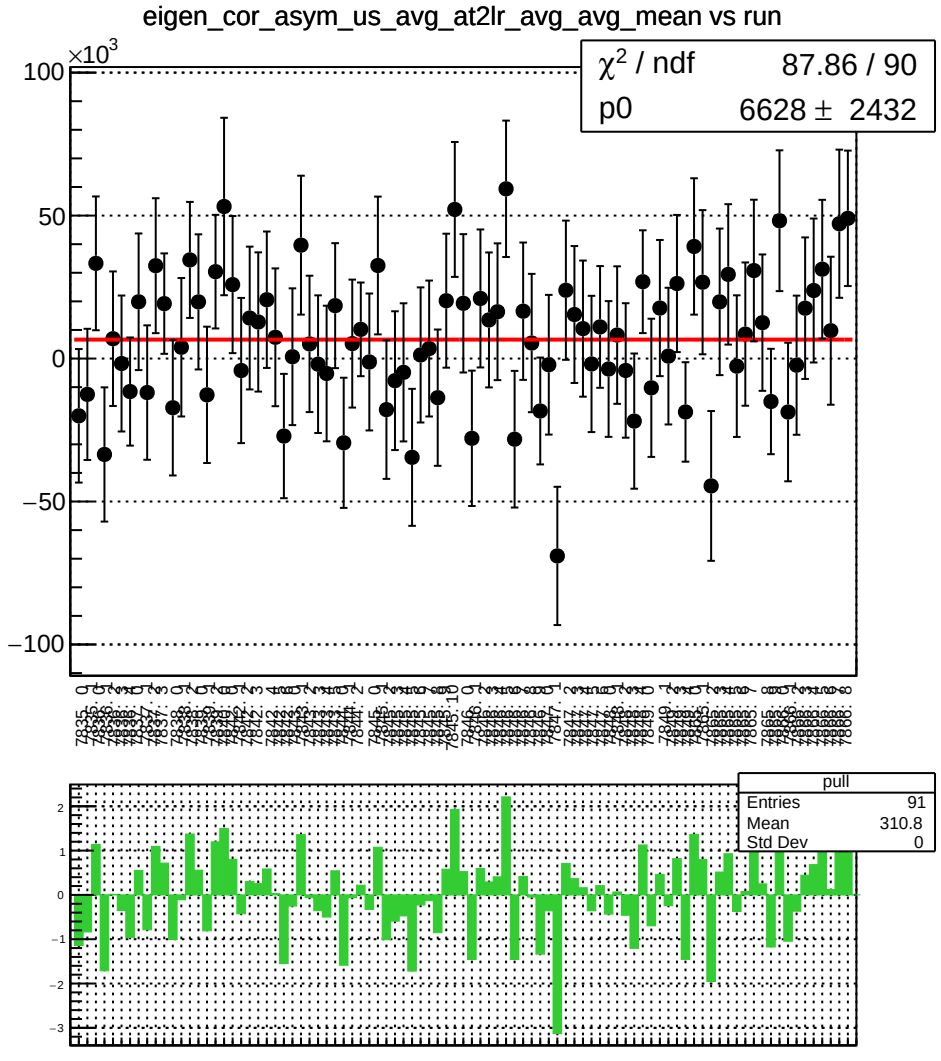

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.86 / 90
p0 6628 ± 2432
pull
Entries 91
Mean 310.8
Std Dev 0
2
1
0
−1
−2
−3

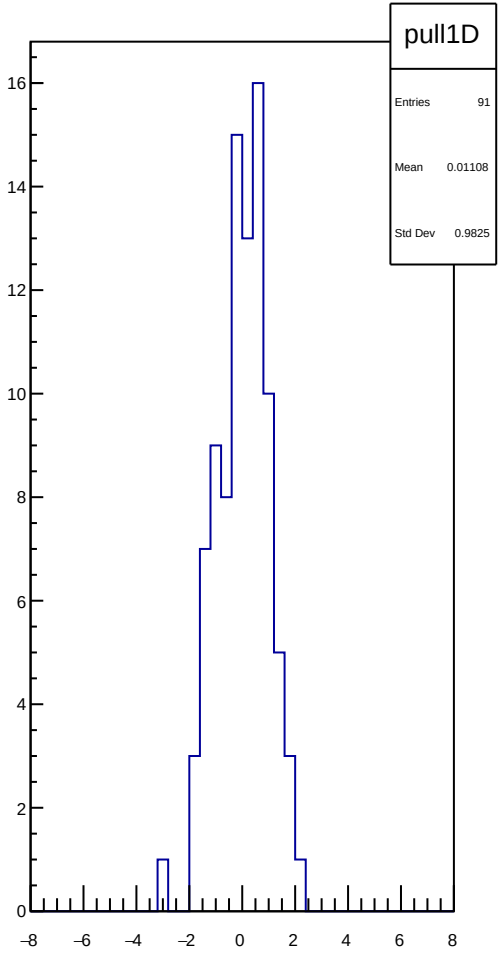

pull1D
Entries 91
Mean 0.01108
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

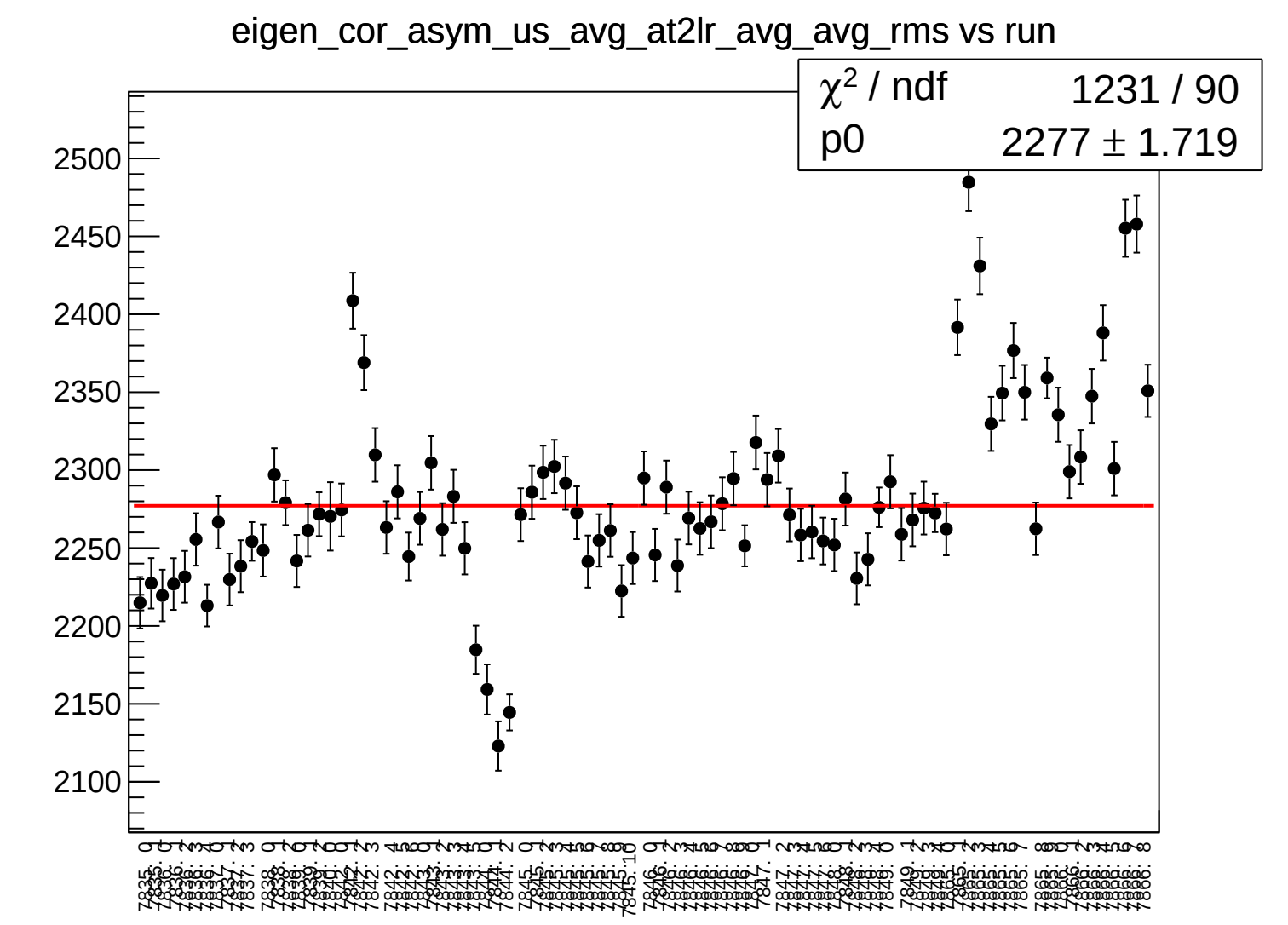

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1231 / 90
p0 2277 ± 1.719
2500
2450
2400
2350
2300
2250
2200
2150
2100

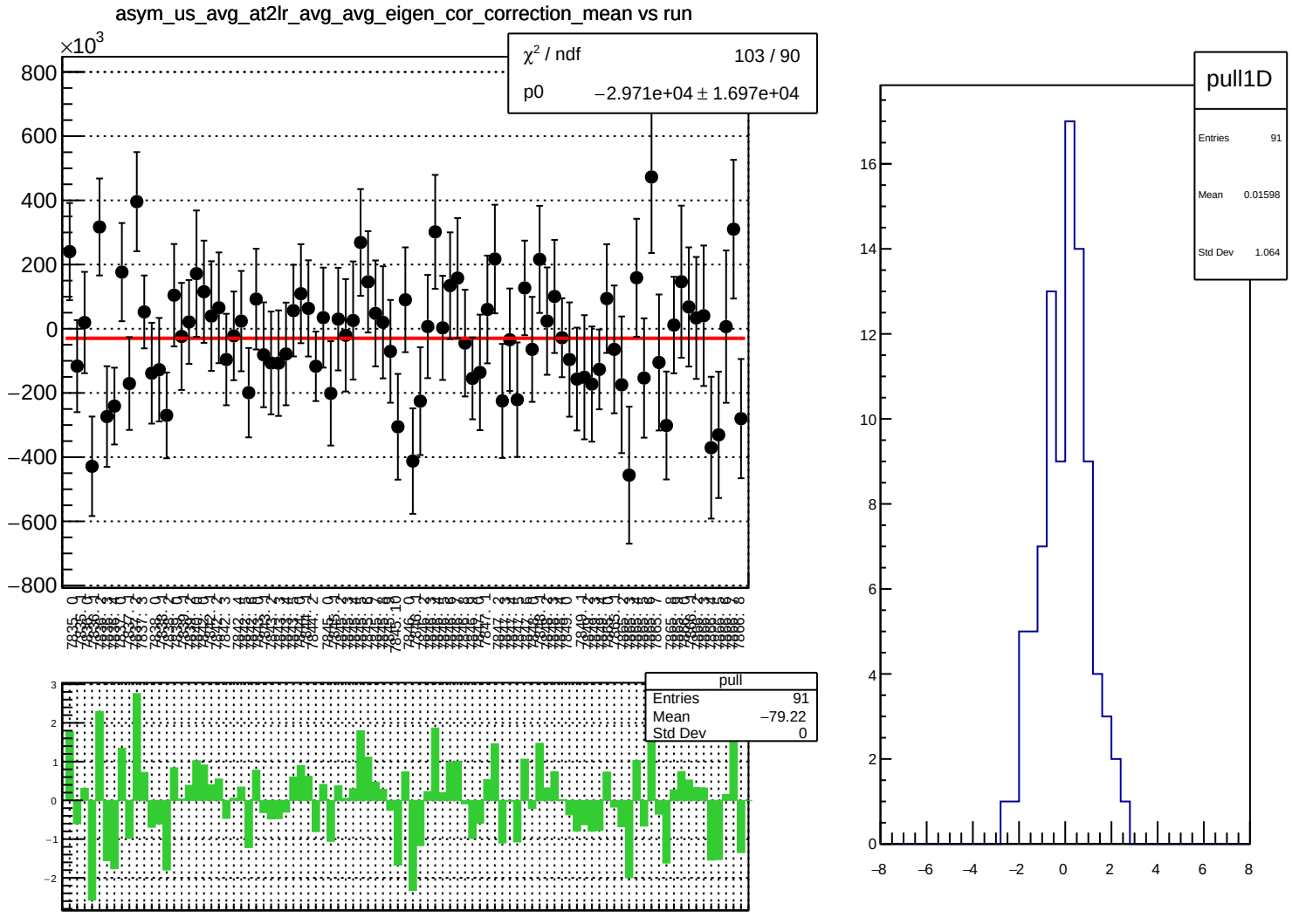

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103 / 90
p0 −2.971e+04 ± 1.697e+04
pull
Entries 91
Mean −79.22
Std Dev 0
pull1D
Entries 91
Mean 0.01598
Std Dev 1.064

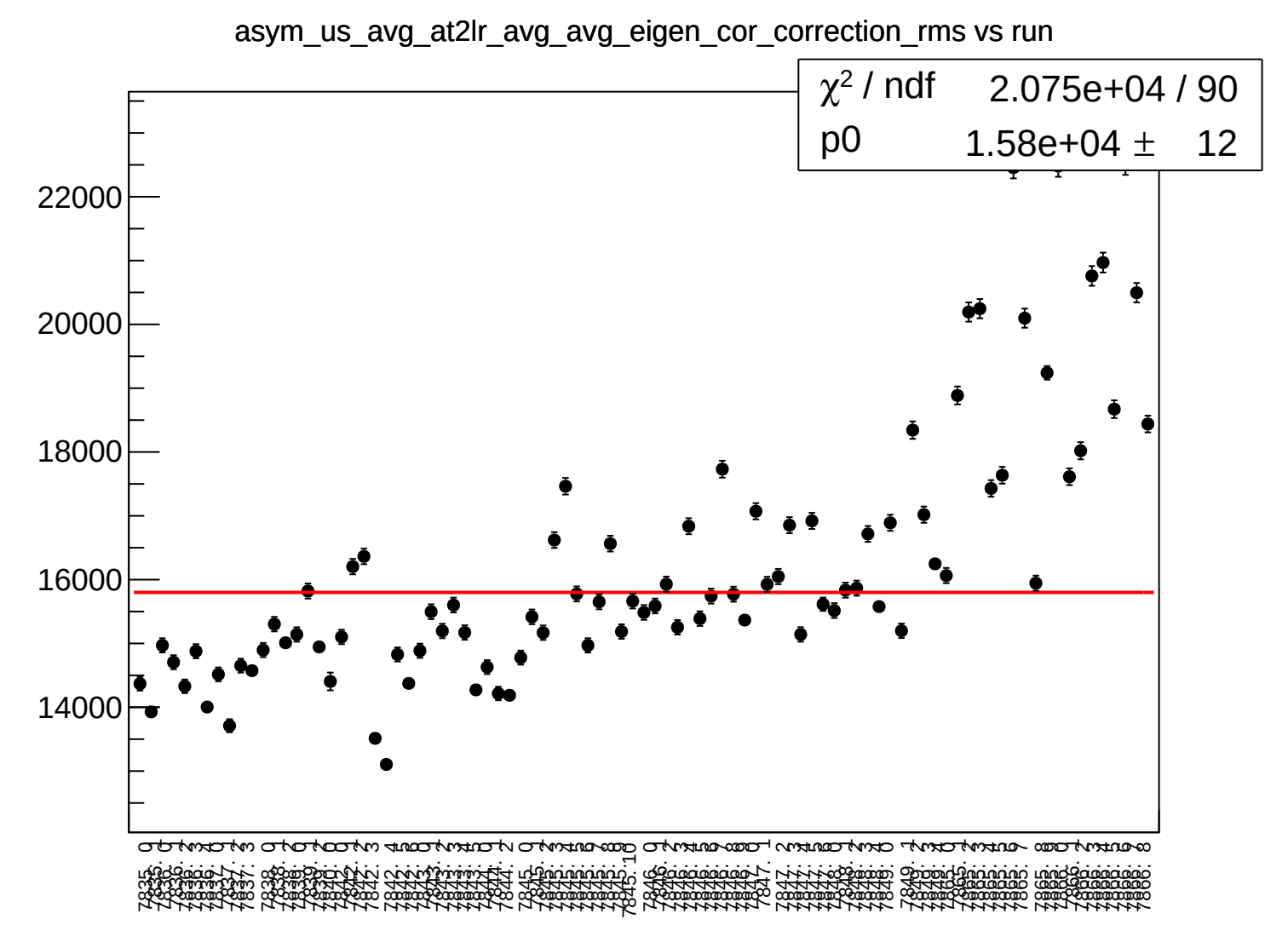

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.075e+04 / 90
p0 1.58e+04 ± 12
22000
20000
18000
16000
14000

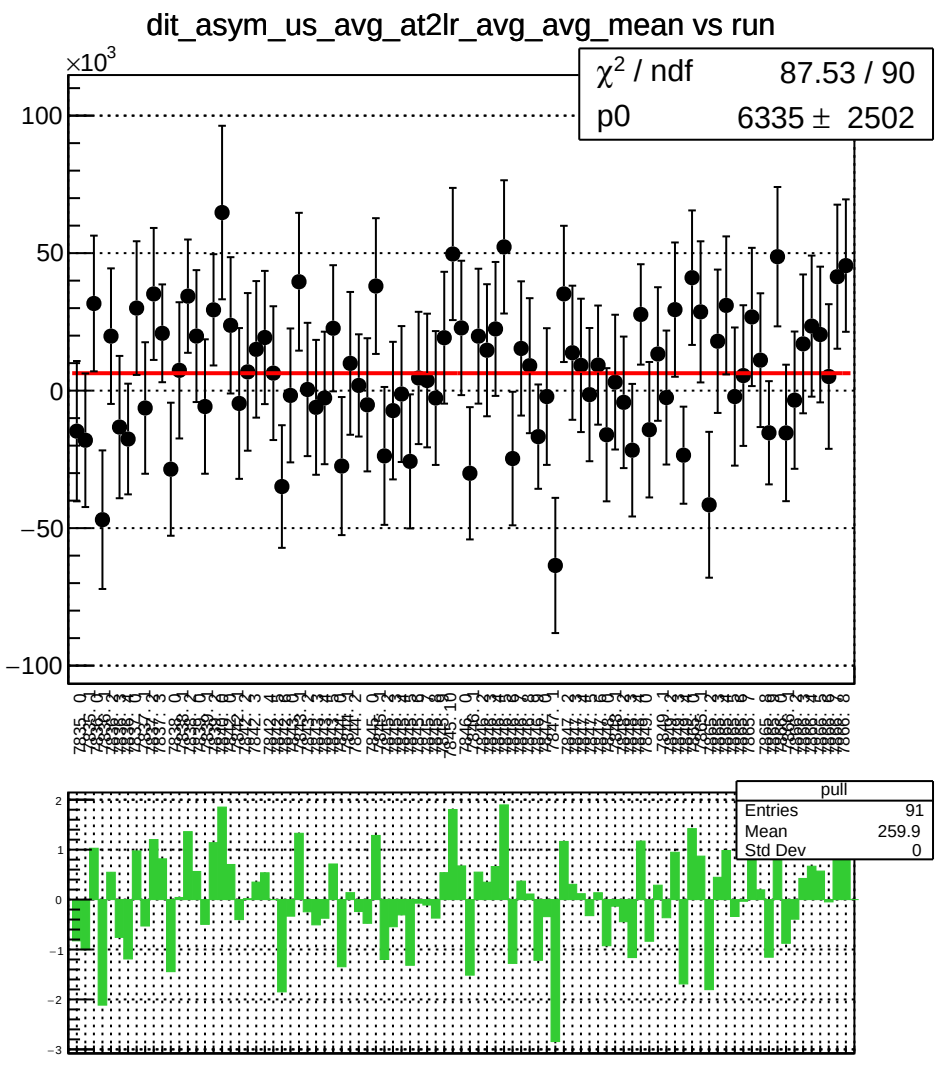

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 87.86 / 90
p0 6628 ± 2432
pull
Entries 91
Mean 310.8
Std Dev 0

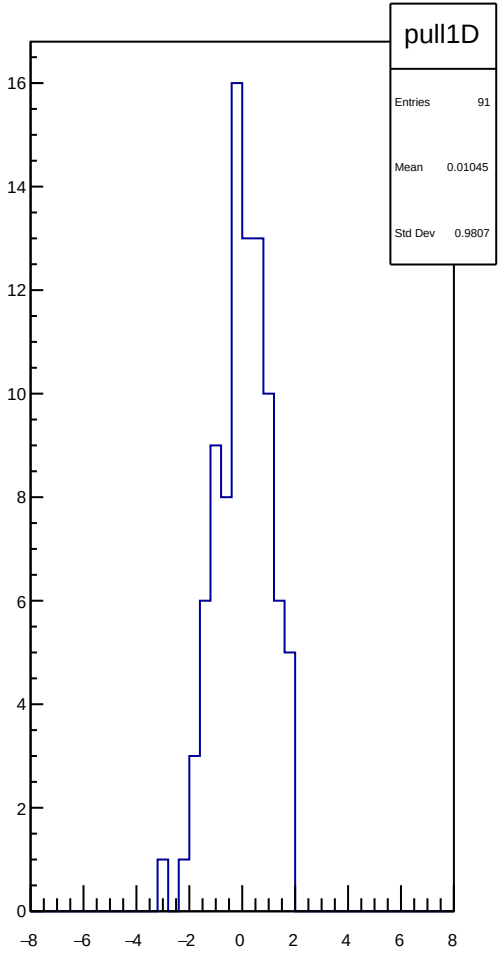

pull1D
Entries 91
Mean 0.01108
Std Dev 0.9825

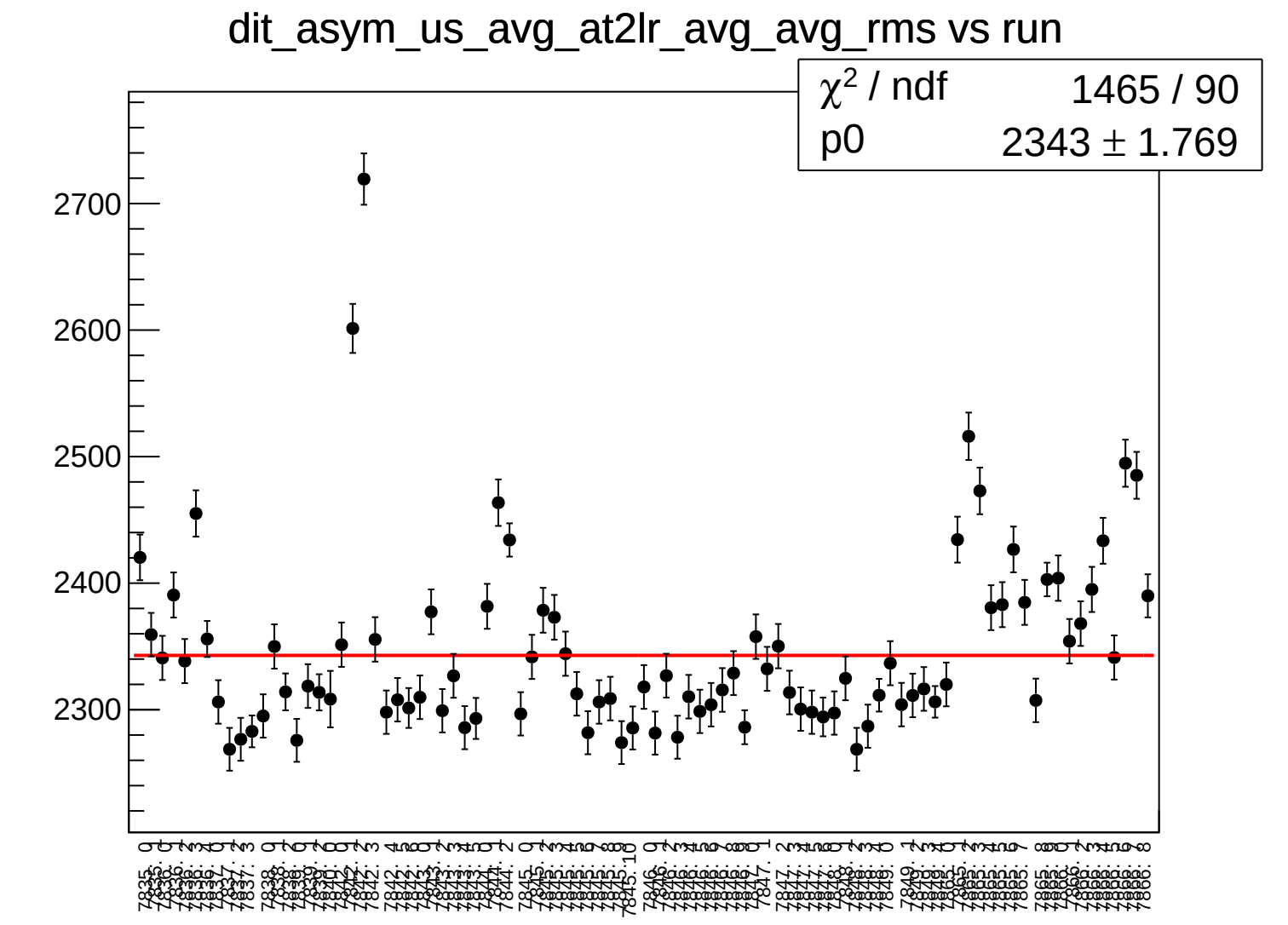

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1231 / 90
p0 2277 ± 1.719
2500
2450
2400
2350
2300
2250
2200
2150
2100

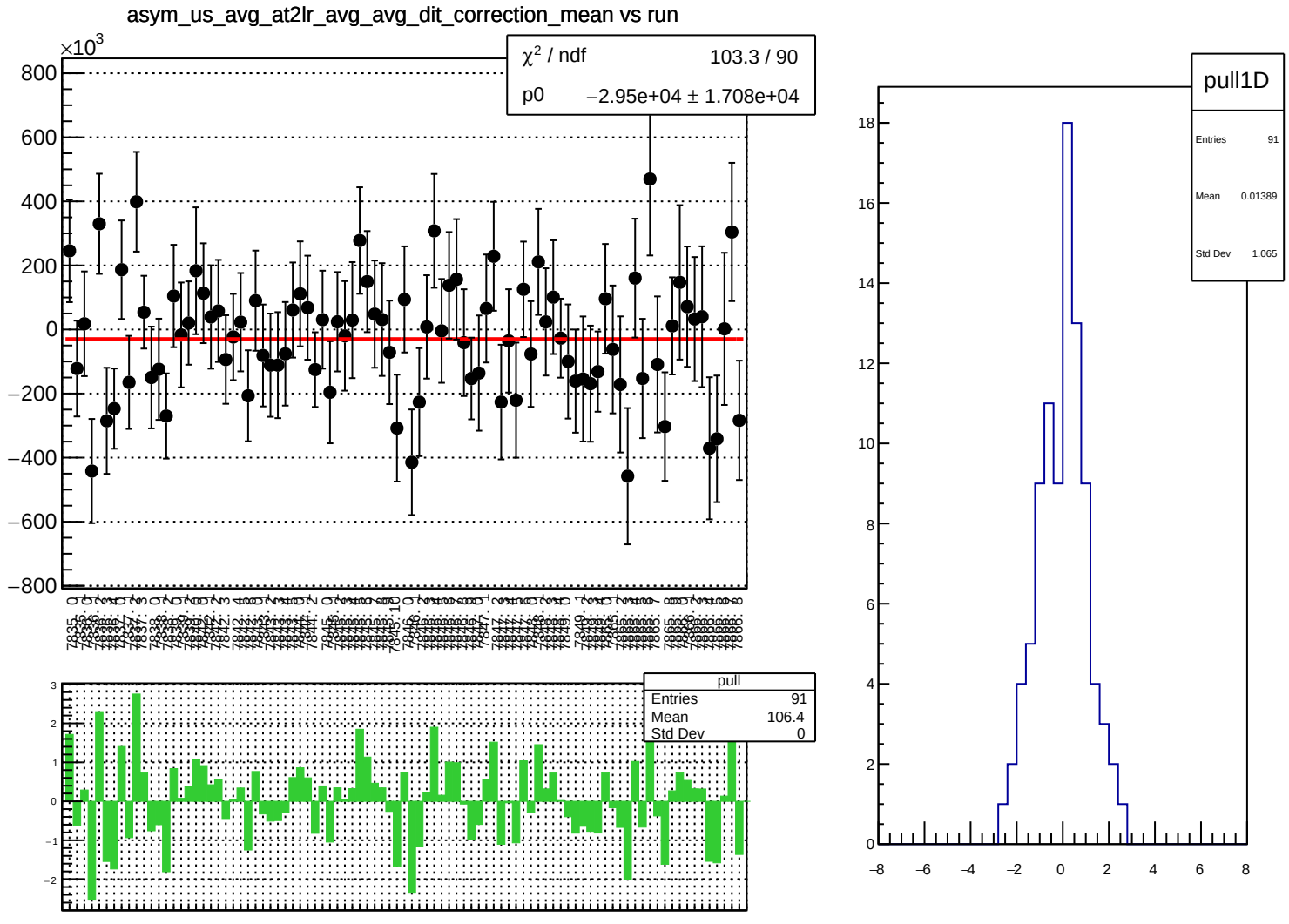

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103 / 90
p0 −2.971e+04 ± 1.697e+04
pull
Entries 91
Mean −79.22
Std Dev 0
pull1D
Entries 91
Mean 0.01598
Std Dev 1.064

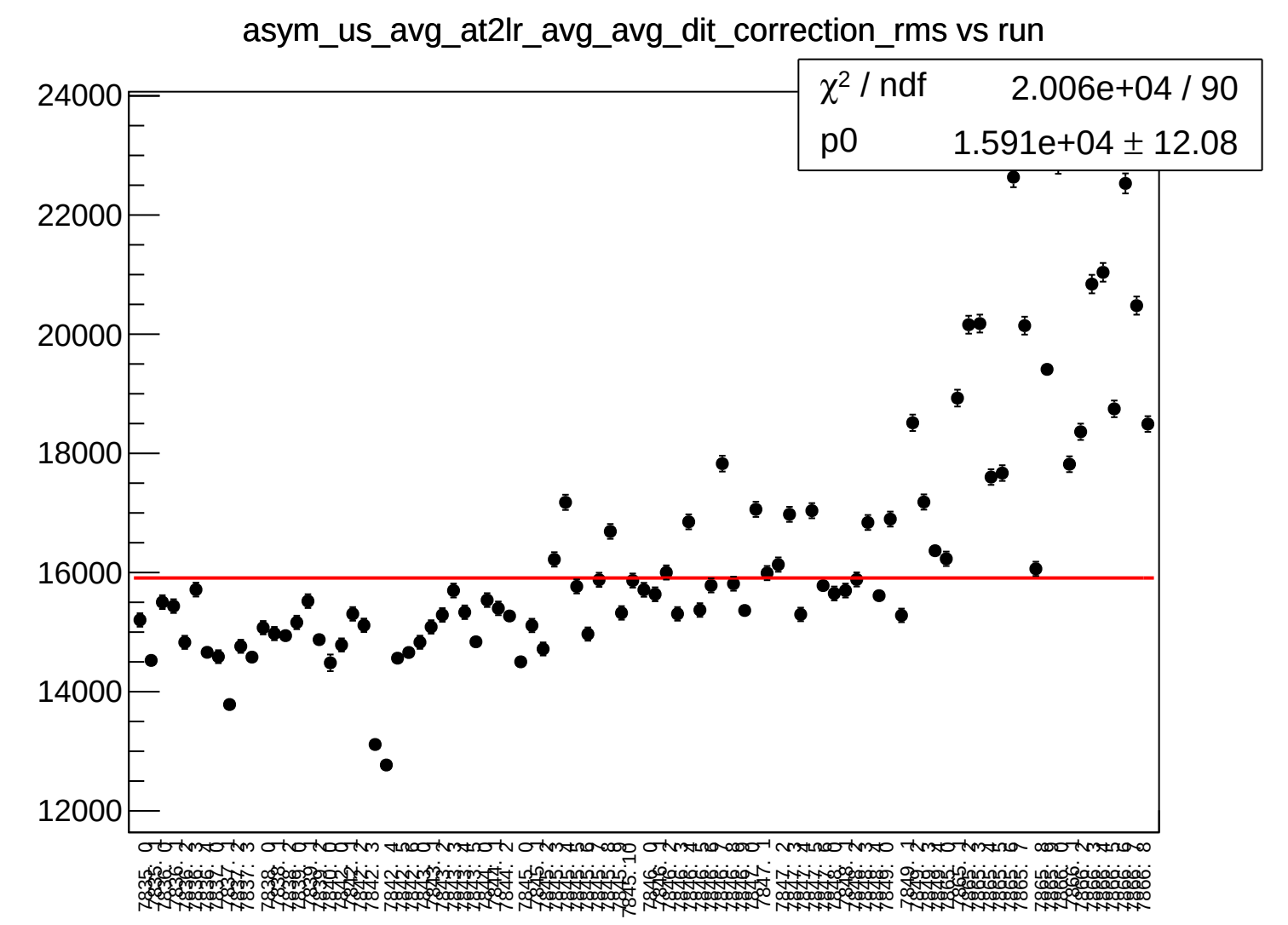

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.075e+04 / 90
p0 1.58e+04 ± 12
22000
20000
18000
16000
14000

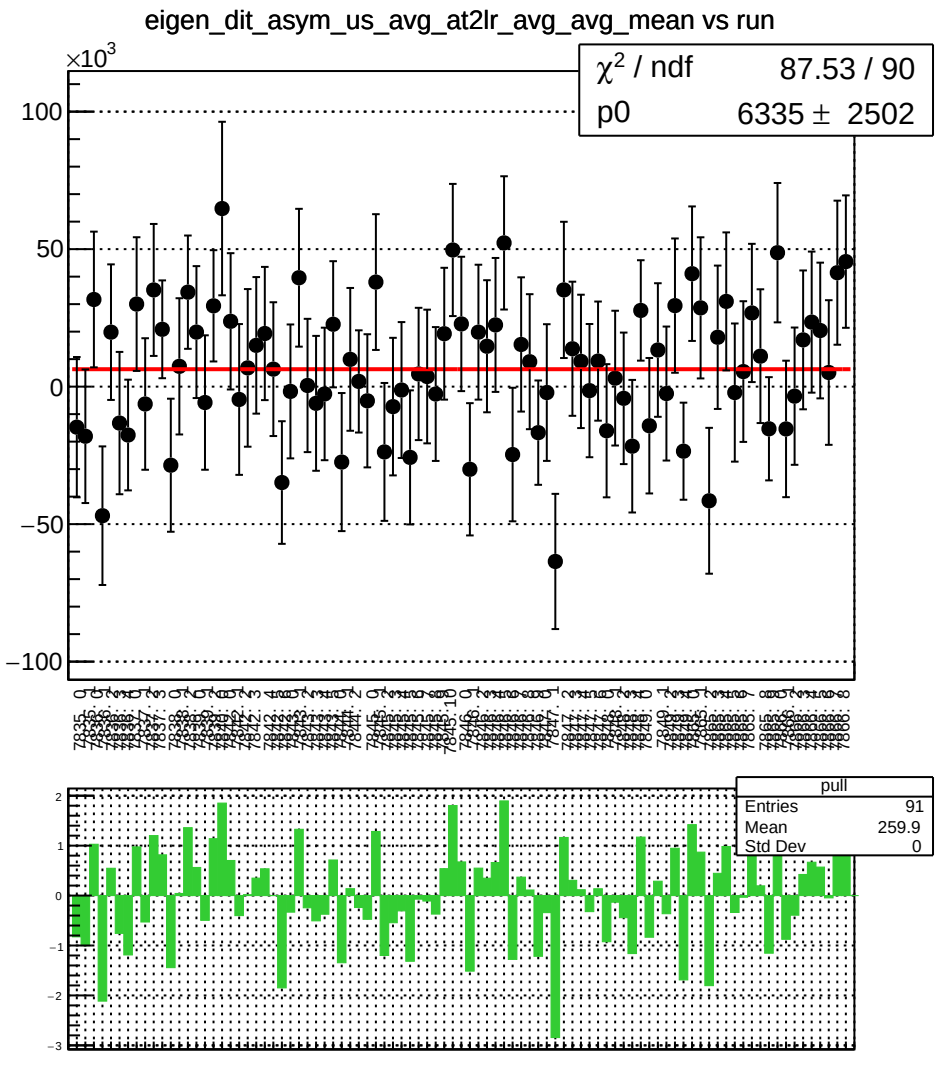

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.53 / 90
p0 6335 ± 2502
100
50
0
−50
−100
pull
Entries 91
Mean 259.9
Std Dev 0
2
1
0
−1
−2
−3

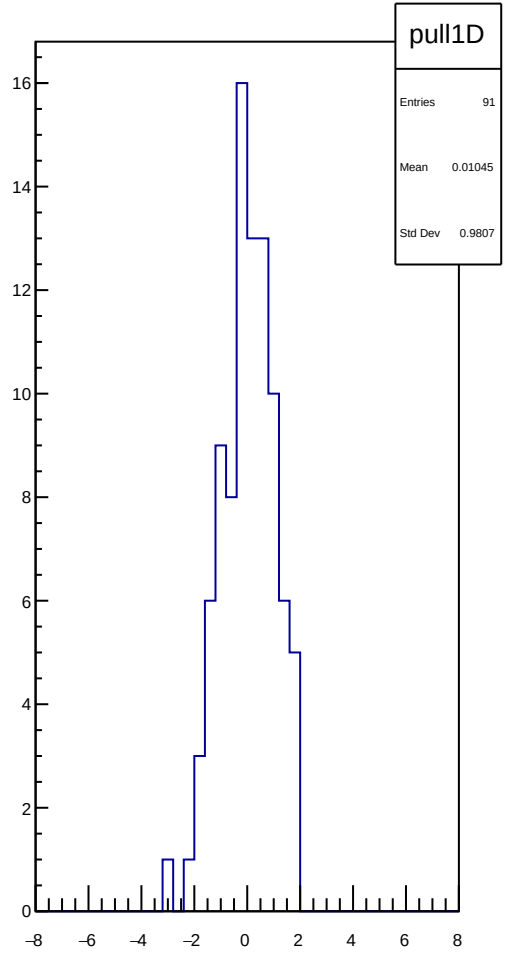

pull1D
Entries 91
Mean 0.01045
Std Dev 0.9807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

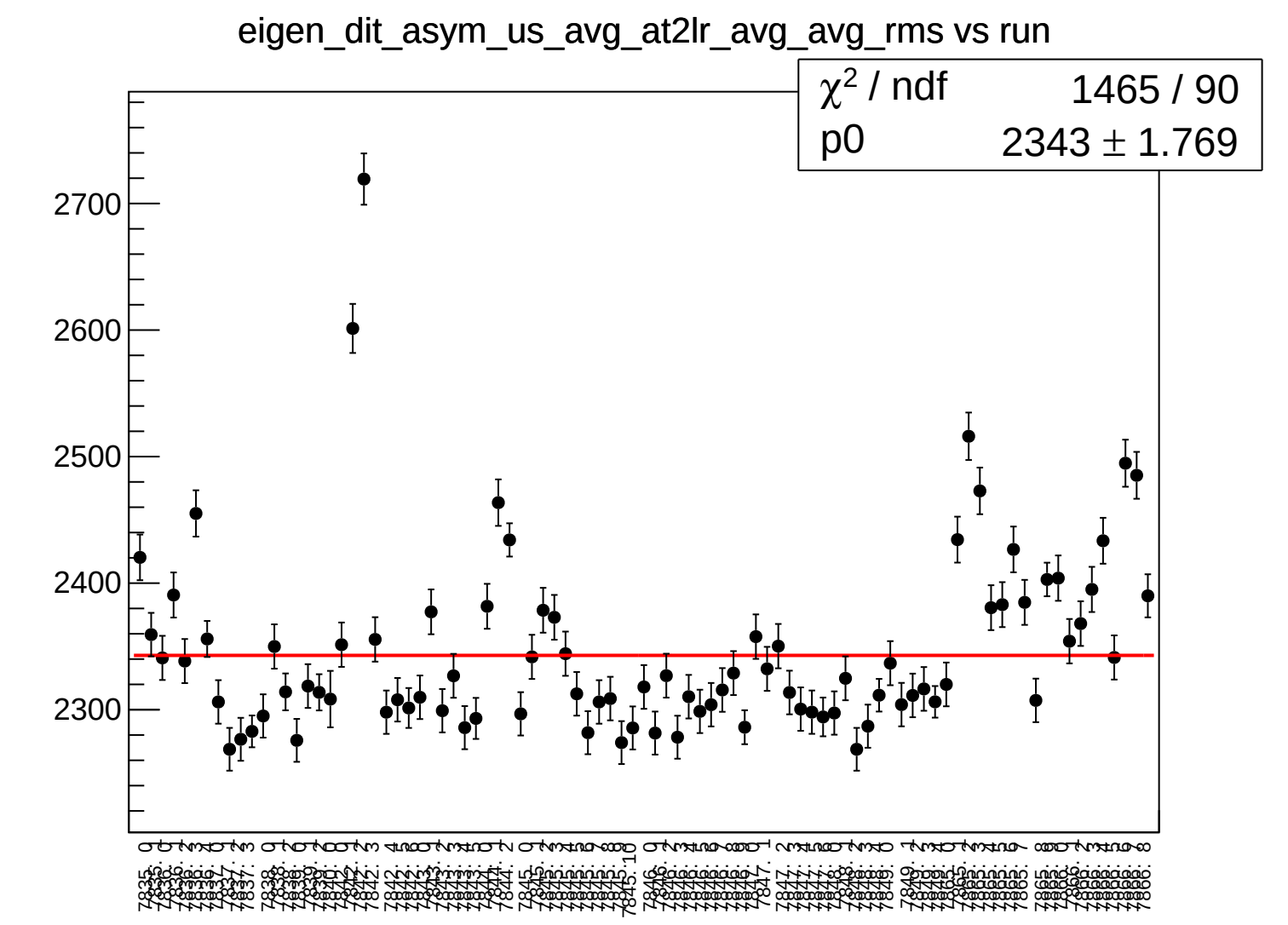

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1465 / 90
p0 2343 ± 1.769
2700
2600
2500
2400
2300

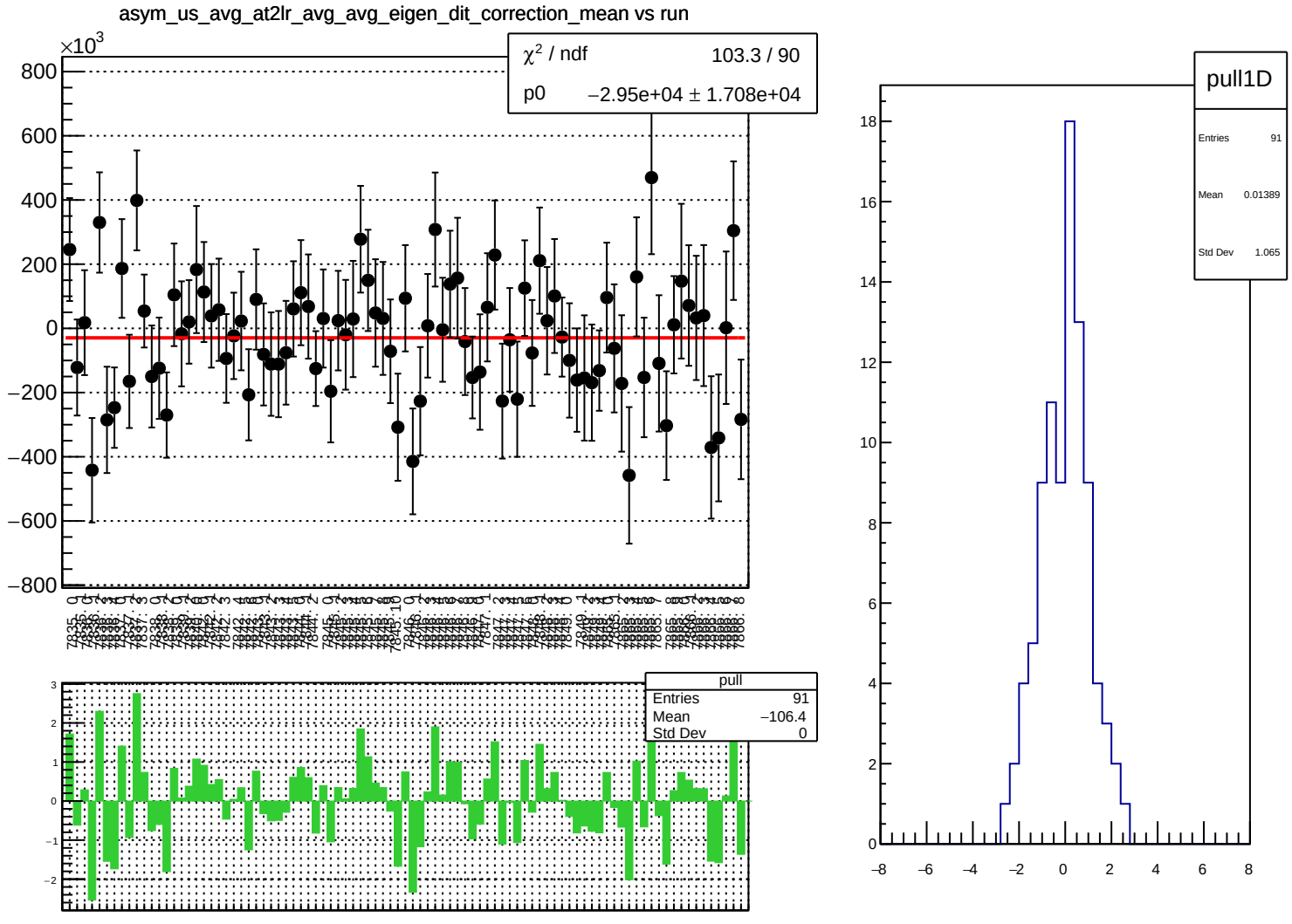

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 90
p0 −2.95e+04 ± 1.708e+04
pull
Entries 91
Mean −106.4
Std Dev 0
pull1D
Entries 91
Mean 0.01389
Std Dev 1.065

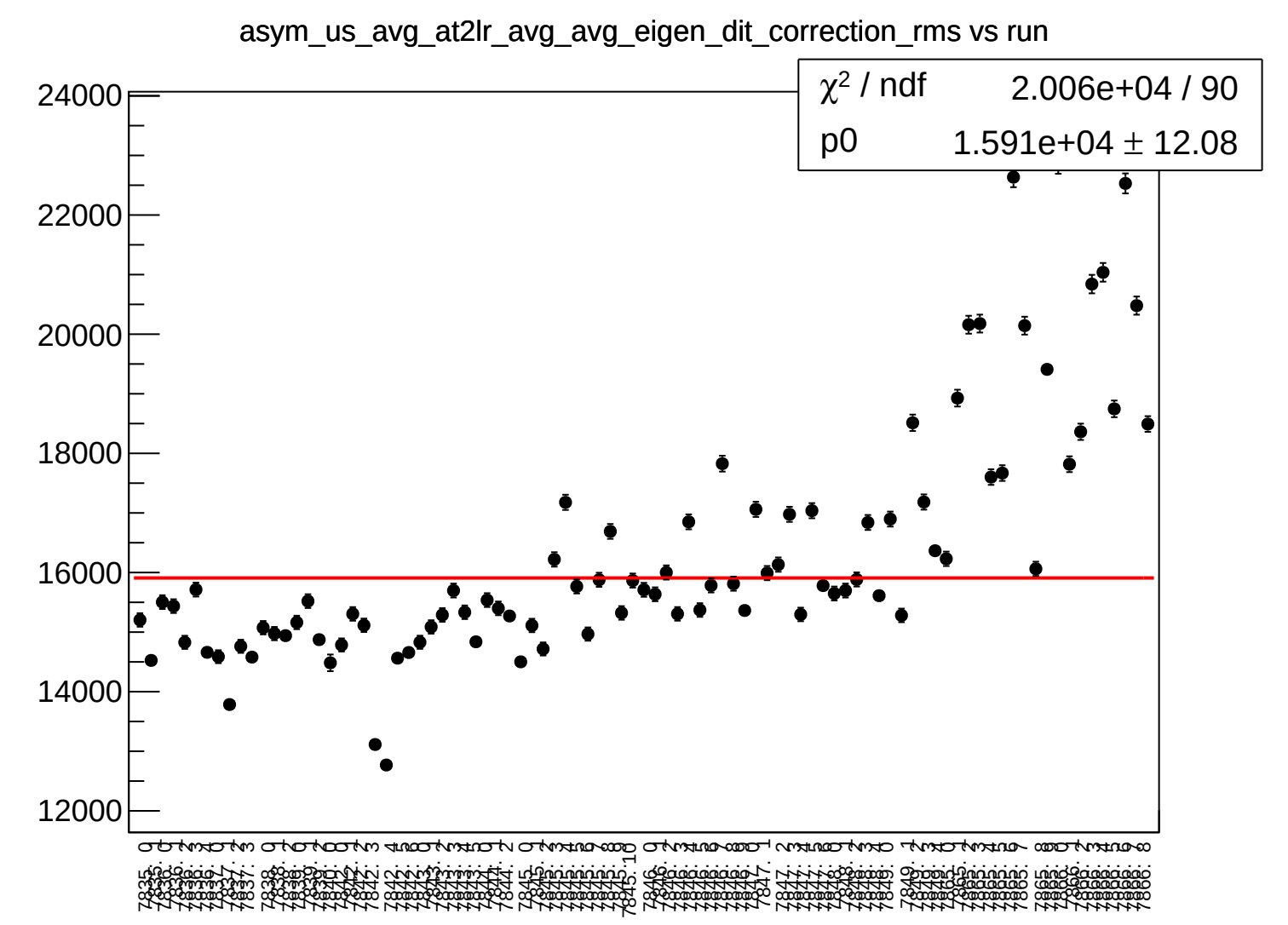

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.006e+04 / 90
p0 1.591e+04 ± 12.08
24000
22000
20000
18000
16000
14000
12000

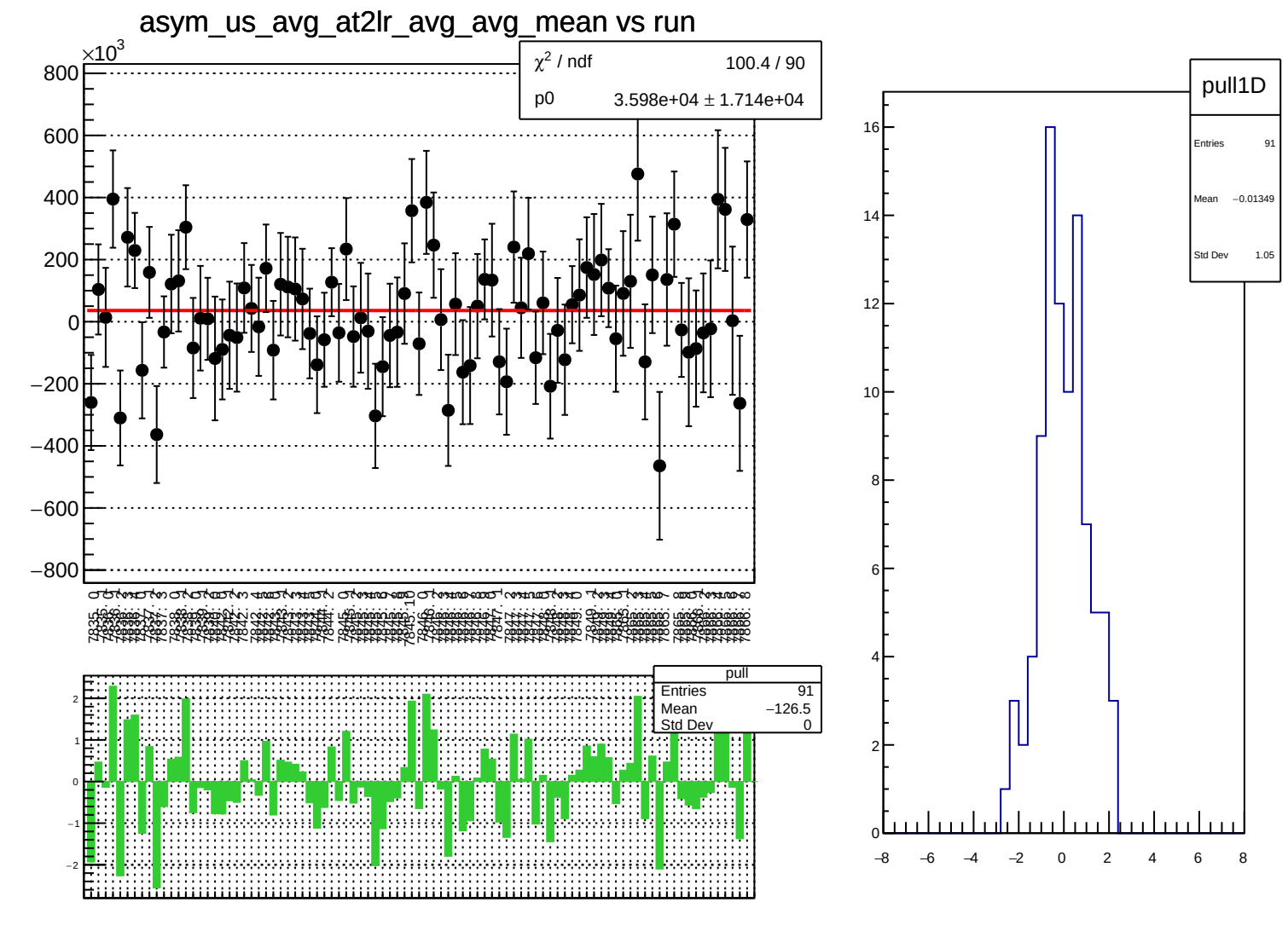

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.53 / 90
p0 6335 ± 2502
100
50
0
−50
−100
pull
Entries 91
Mean 259.9
Std Dev 0
2
1
0
−1
−2
−3

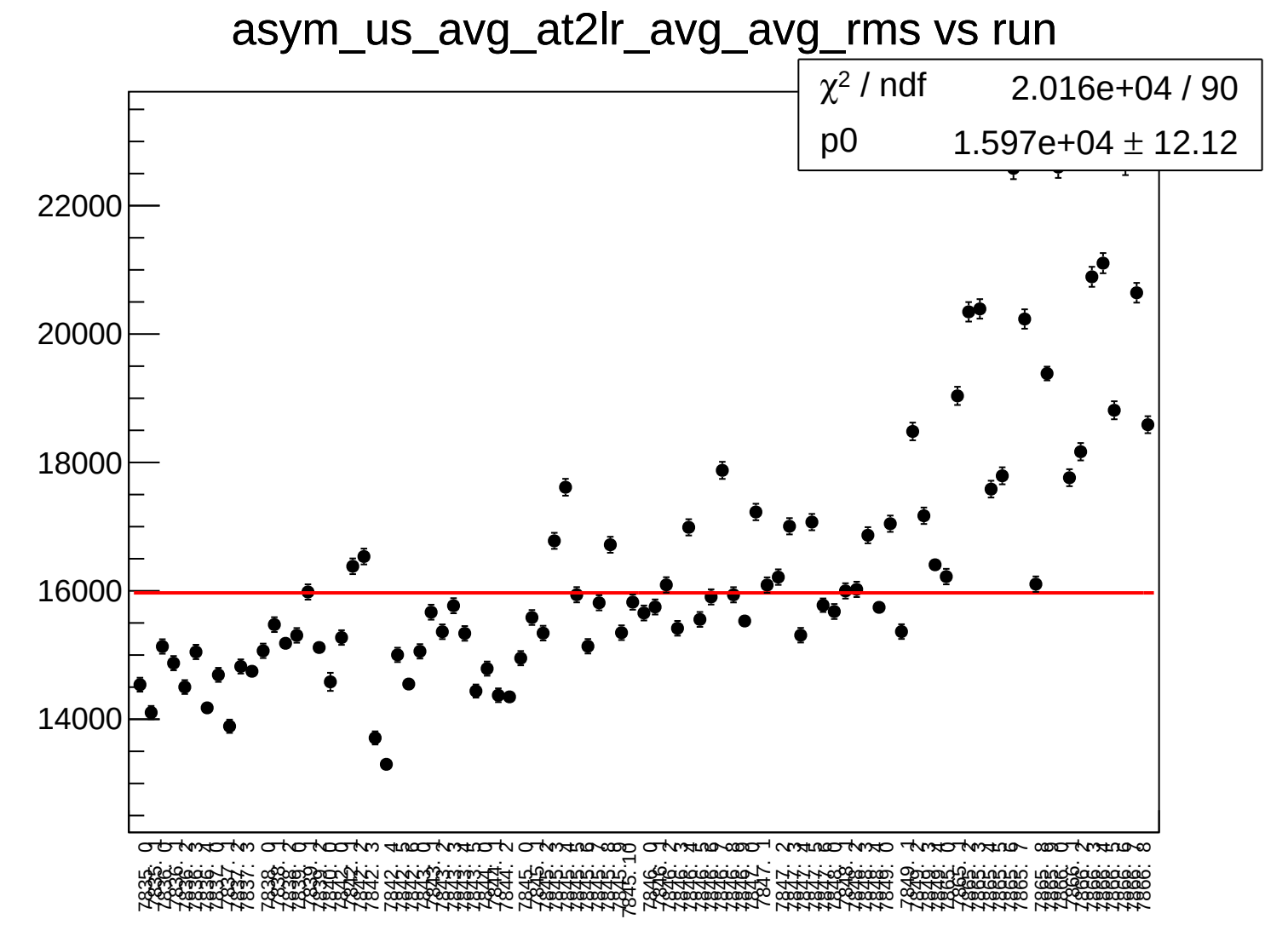

pull1D
Entries 91
Mean 0.01045
Std Dev 0.9807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

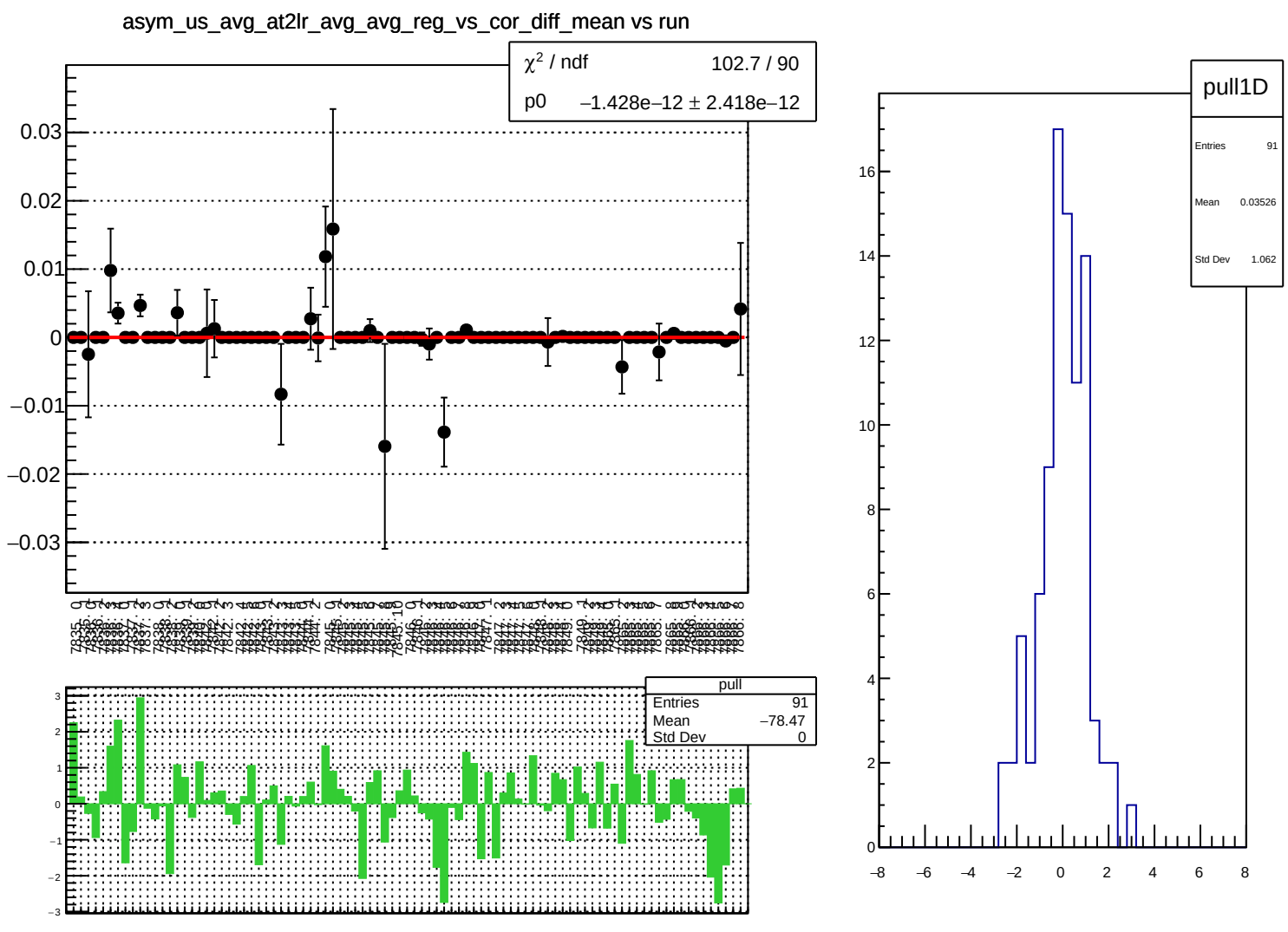

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1465 / 90
p0 2343 ± 1.769
2700
2600
2500
2400
2300

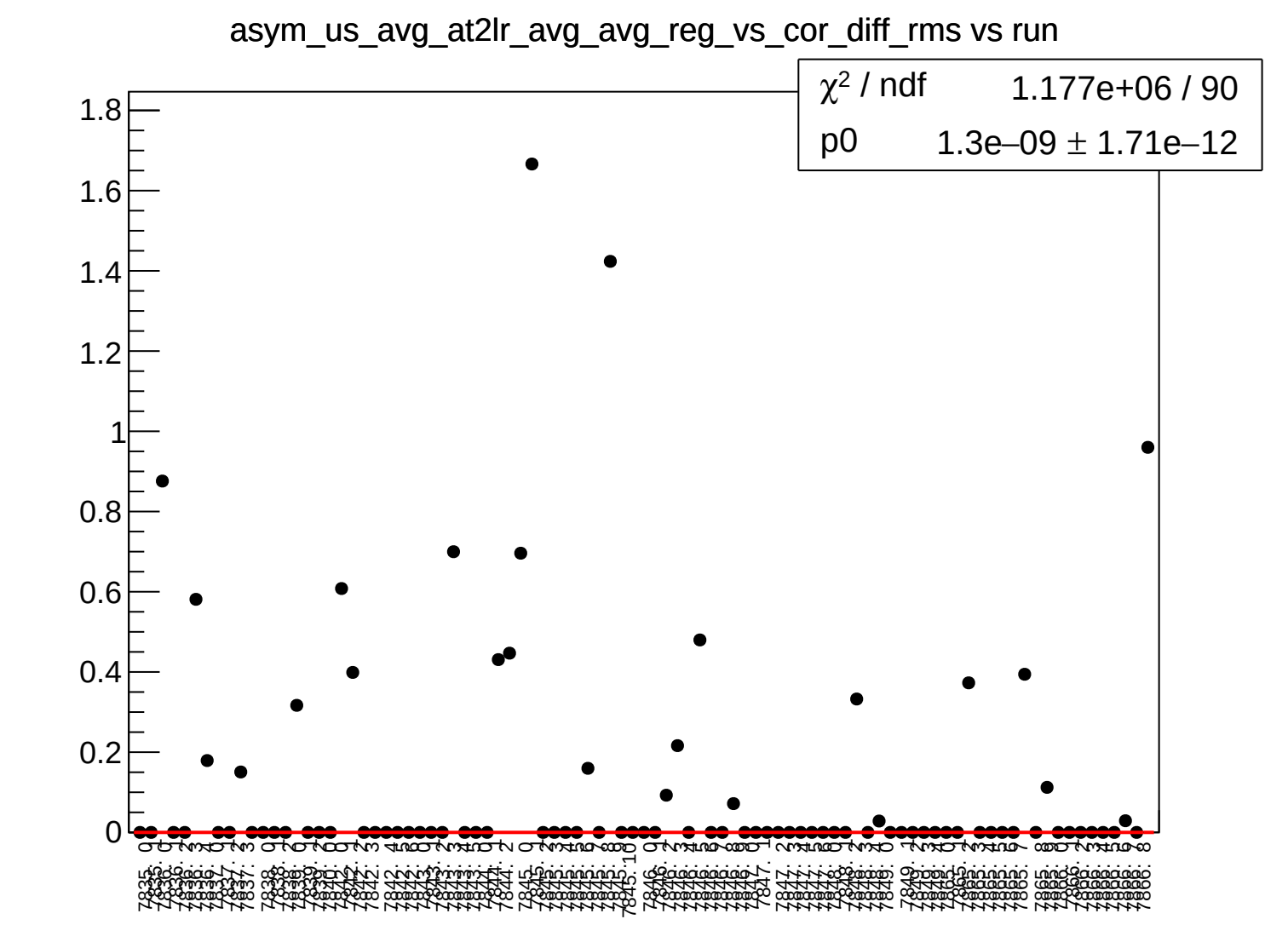

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 90
p0 −2.95e+04 ± 1.708e+04
pull
Entries 91
Mean −106.4
Std Dev 0
pull1D
Entries 91
Mean 0.01389
Std Dev 1.065

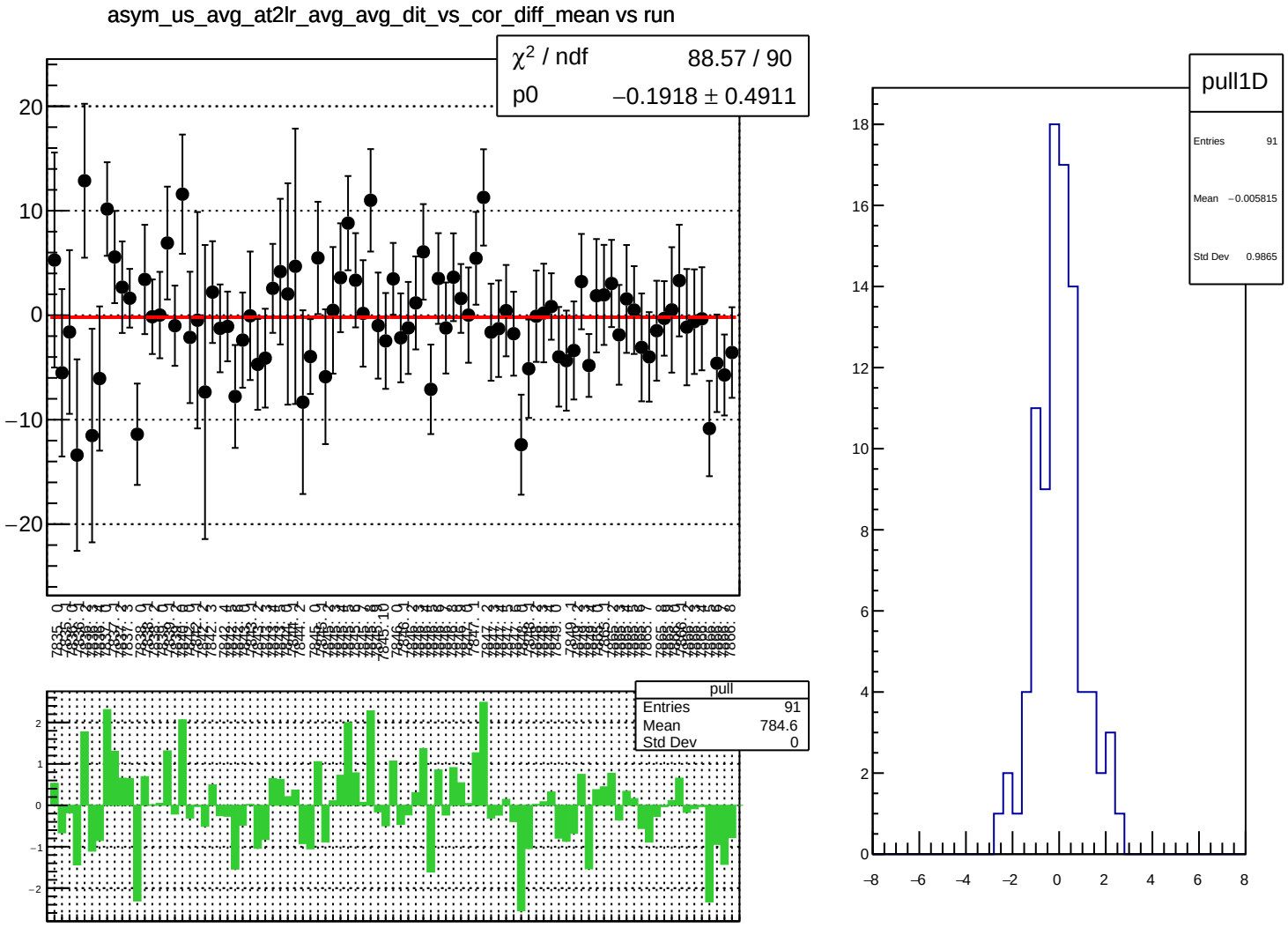

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.006e+04 / 90
p0 1.591e+04 ± 12.08
24000
22000
20000
18000
16000
14000
12000

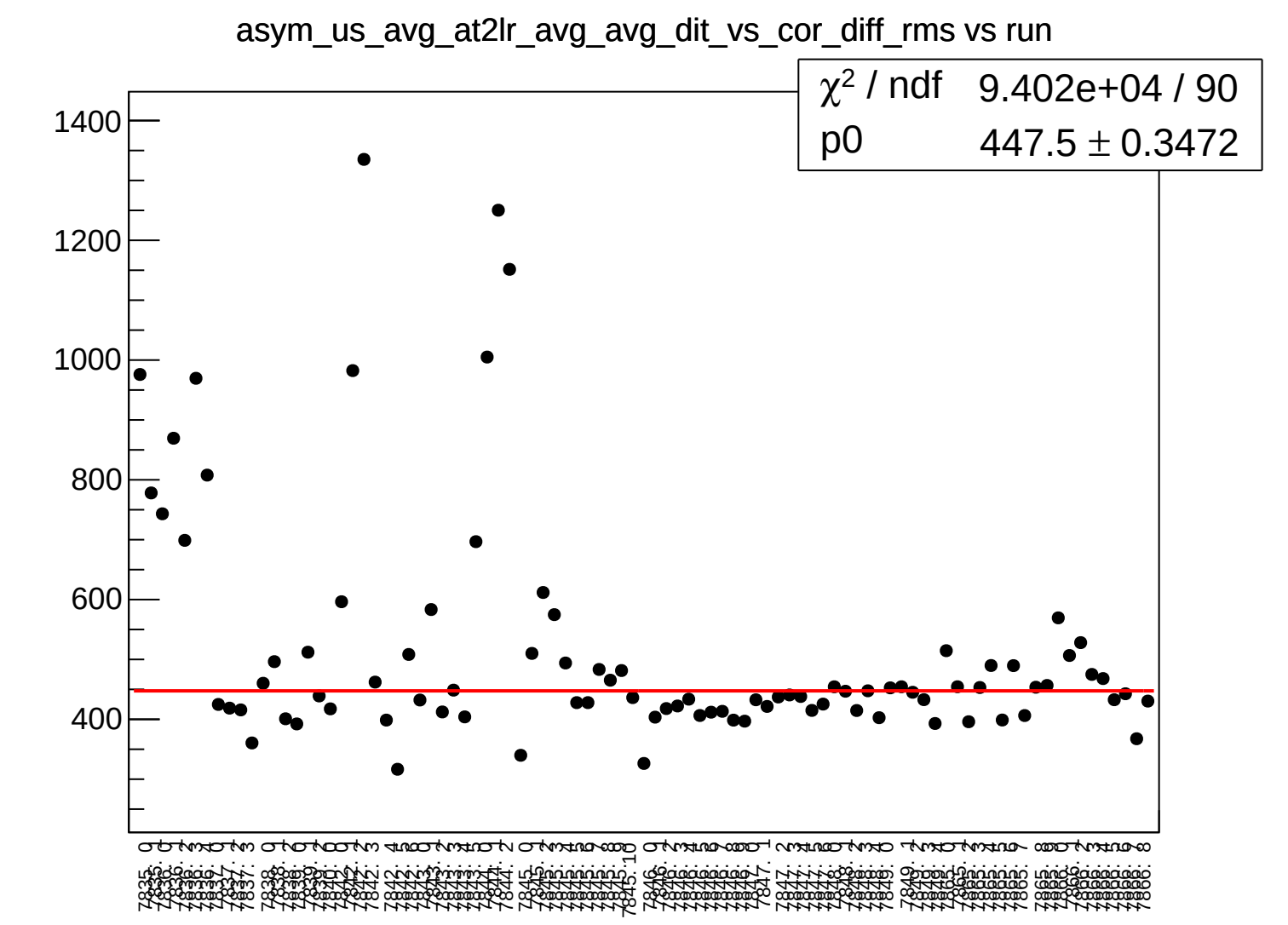

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
800
600
400
200
0
−200
−400
−600
−800
χ² / ndf 100.4 / 90
p0 3.598e+04 ± 1.714e+04
pull
Entries 91
Mean −126.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01349
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

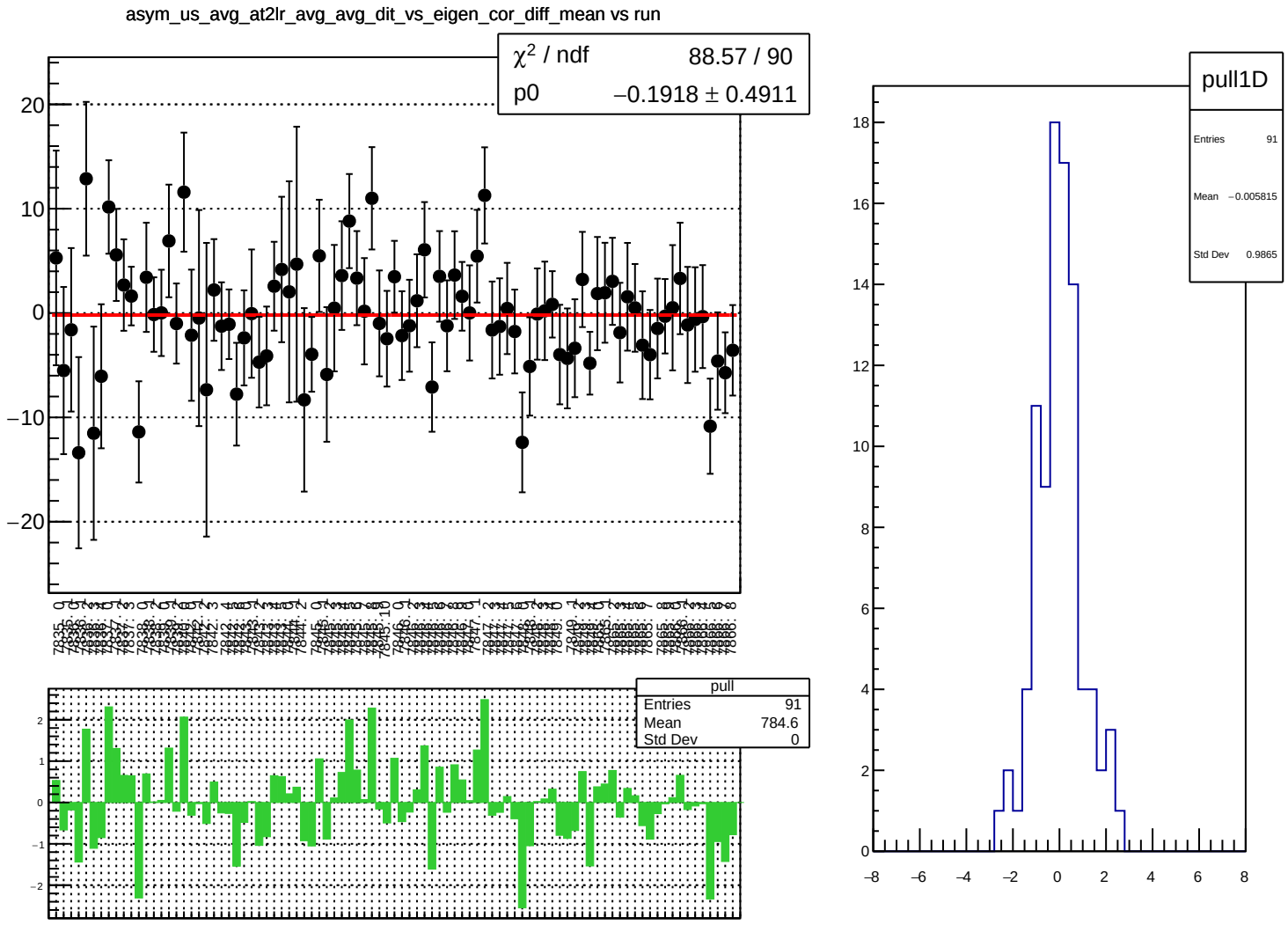

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2.016e+04 / 90
p0 1.597e+04 ± 12.12
22000
20000
18000
16000
14000

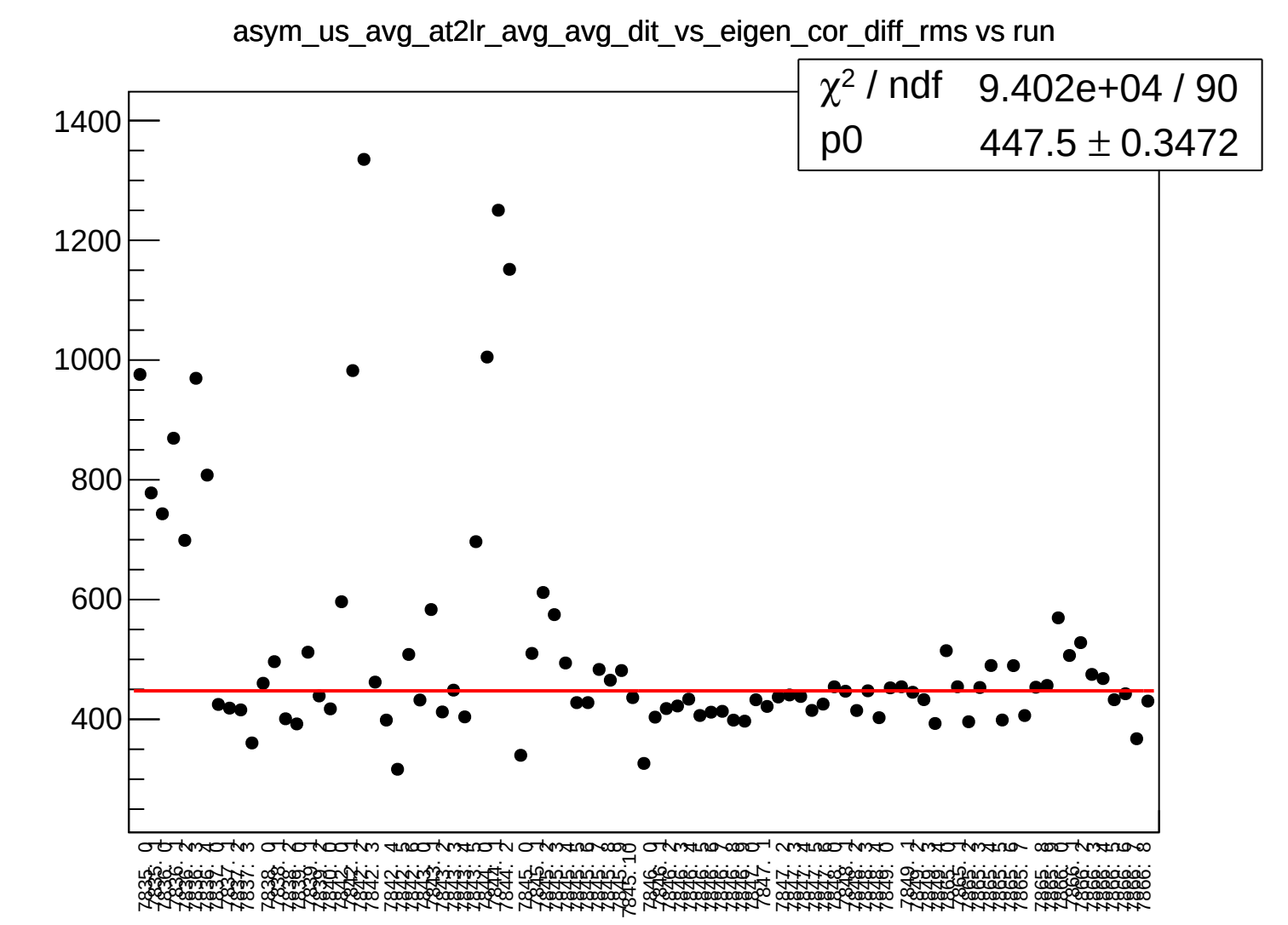

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 90
p0 −1.428e−12 ± 2.418e−12
pull
Entries 91
Mean −78.47
Std Dev 0
pull1D
Entries 91
Mean 0.03526
Std Dev 1.062

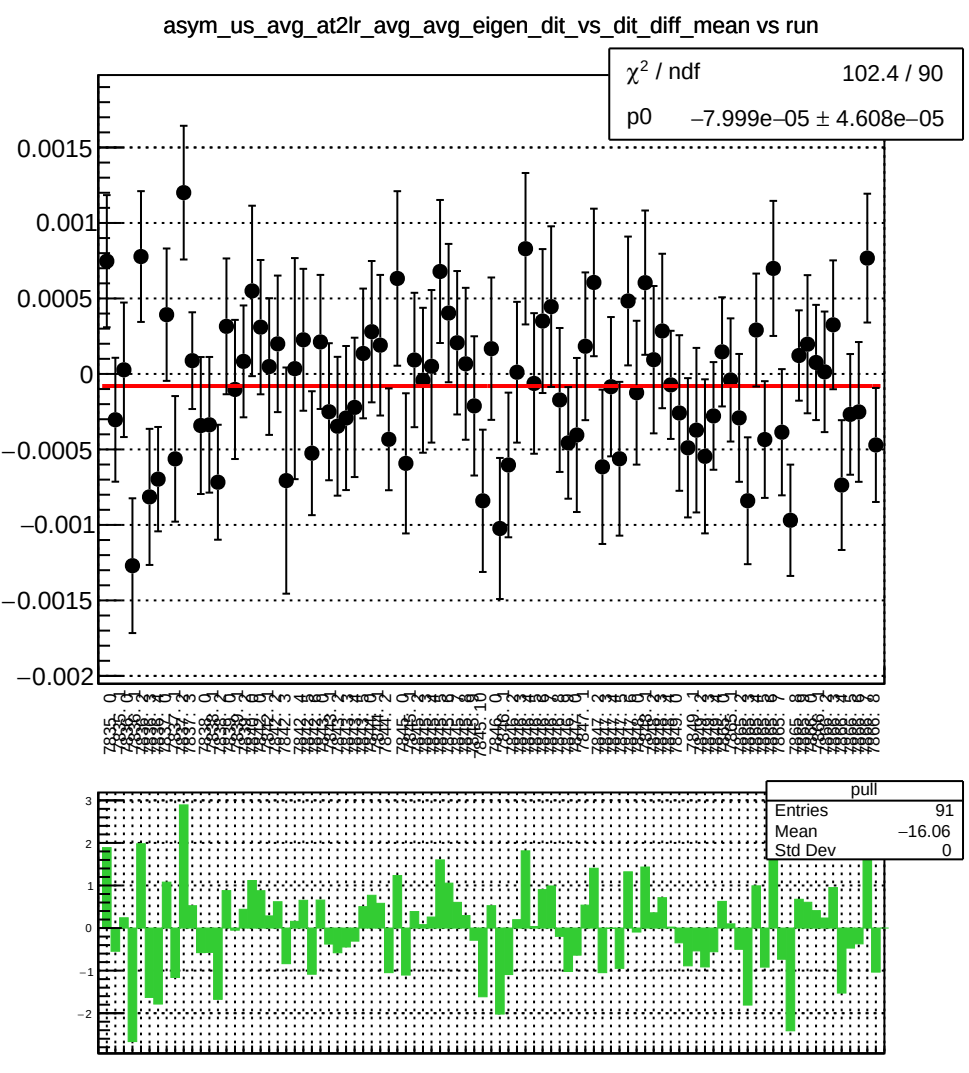

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 90
p0 1.3e−09 ± 1.71e−12
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

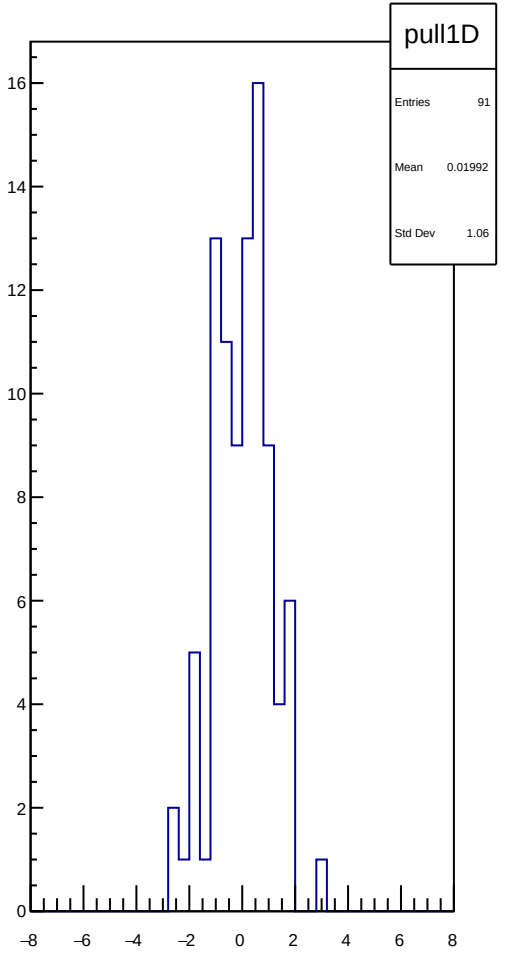

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.57 / 90
p0 −0.1918 ± 0.4911
pull
Entries 91
Mean 784.6
Std Dev 0
pull1D
Entries 91
Mean −0.005815
Std Dev 0.9865

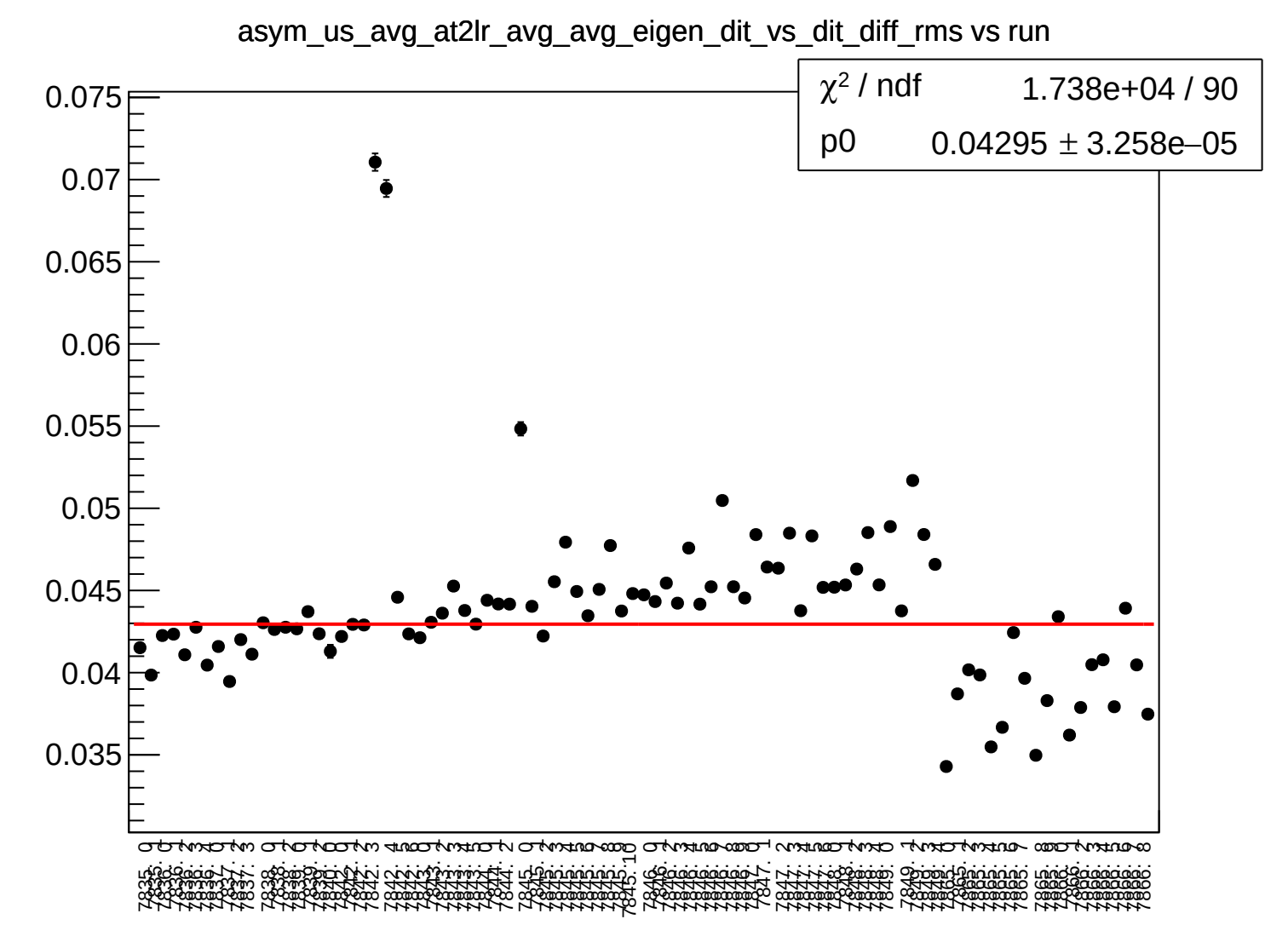

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.402e+04 / 90
p0 447.5 ± 0.3472
1400
1200
1000
800
600
400

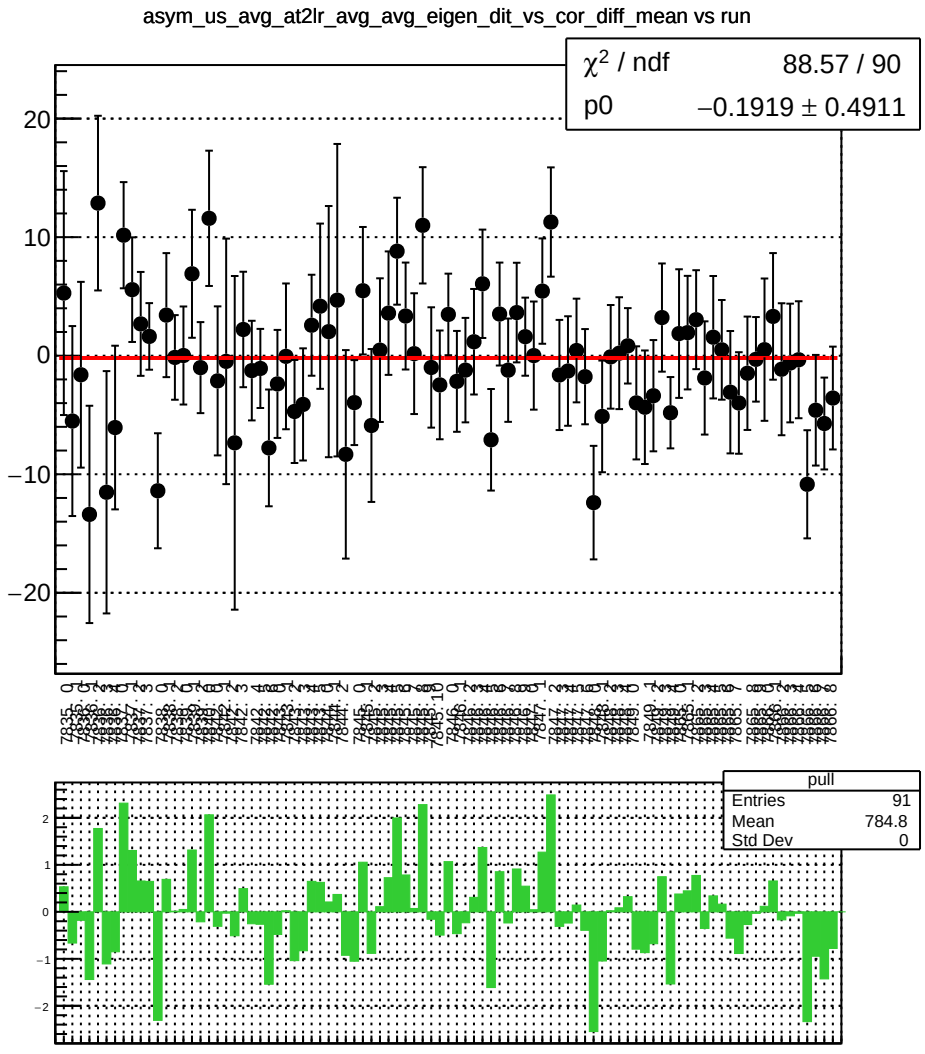

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.57 / 90
p0 −0.1918 ± 0.4911
pull
Entries 91
Mean 784.6
Std Dev 0
pull1D
Entries 91
Mean −0.005815
Std Dev 0.9865

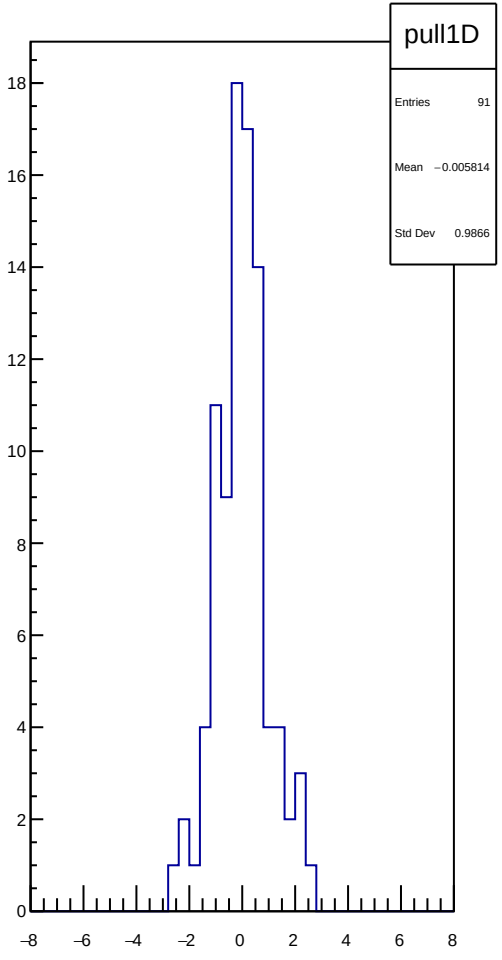

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.402e+04 / 90
p0 447.5 ± 0.3472
1400
1200
1000
800
600
400

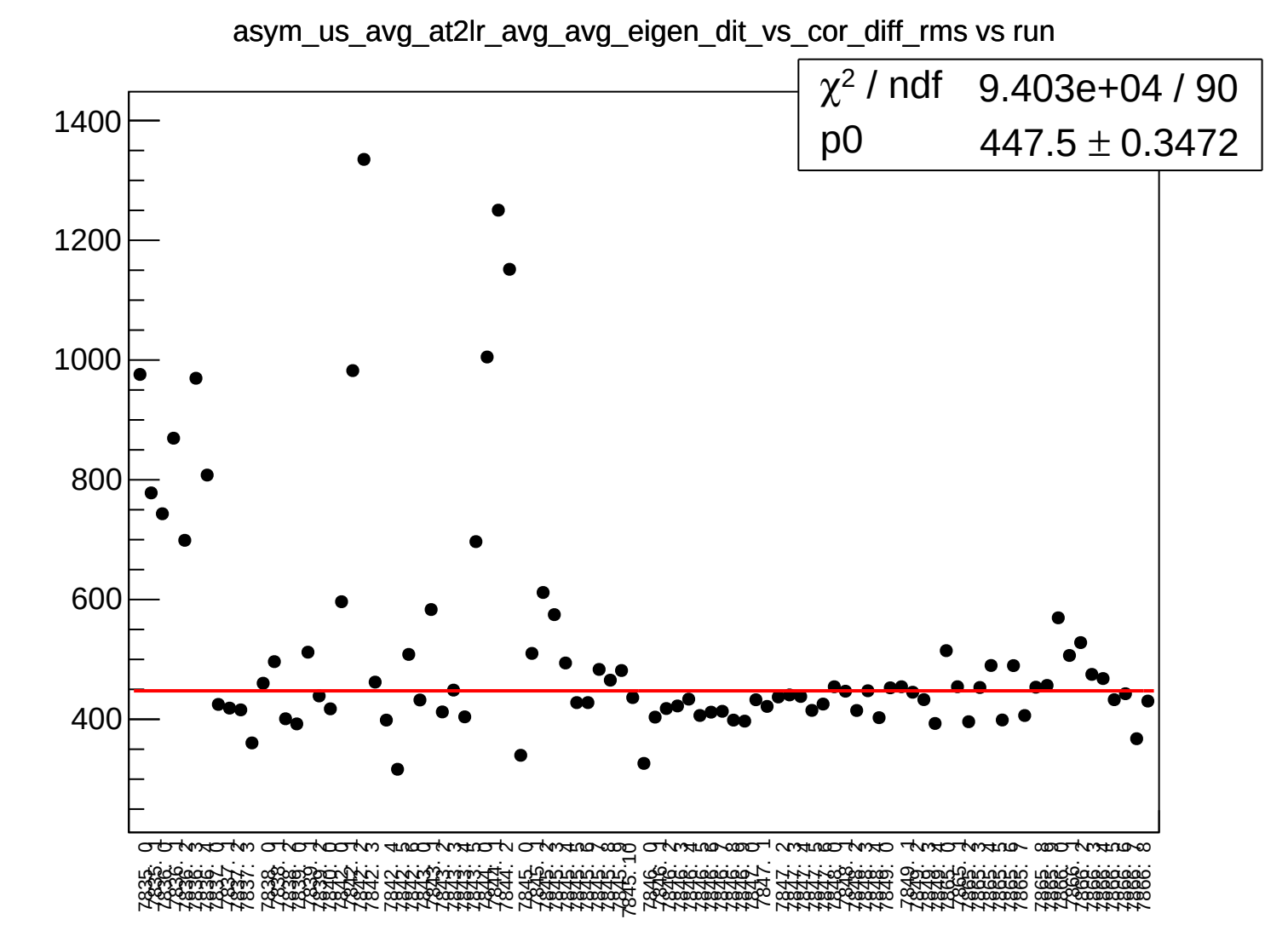

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 102.4 / 90
p0 −7.999e−05 ± 4.608e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean −16.06
Std Dev 0
3
2
1
0
−1
−2

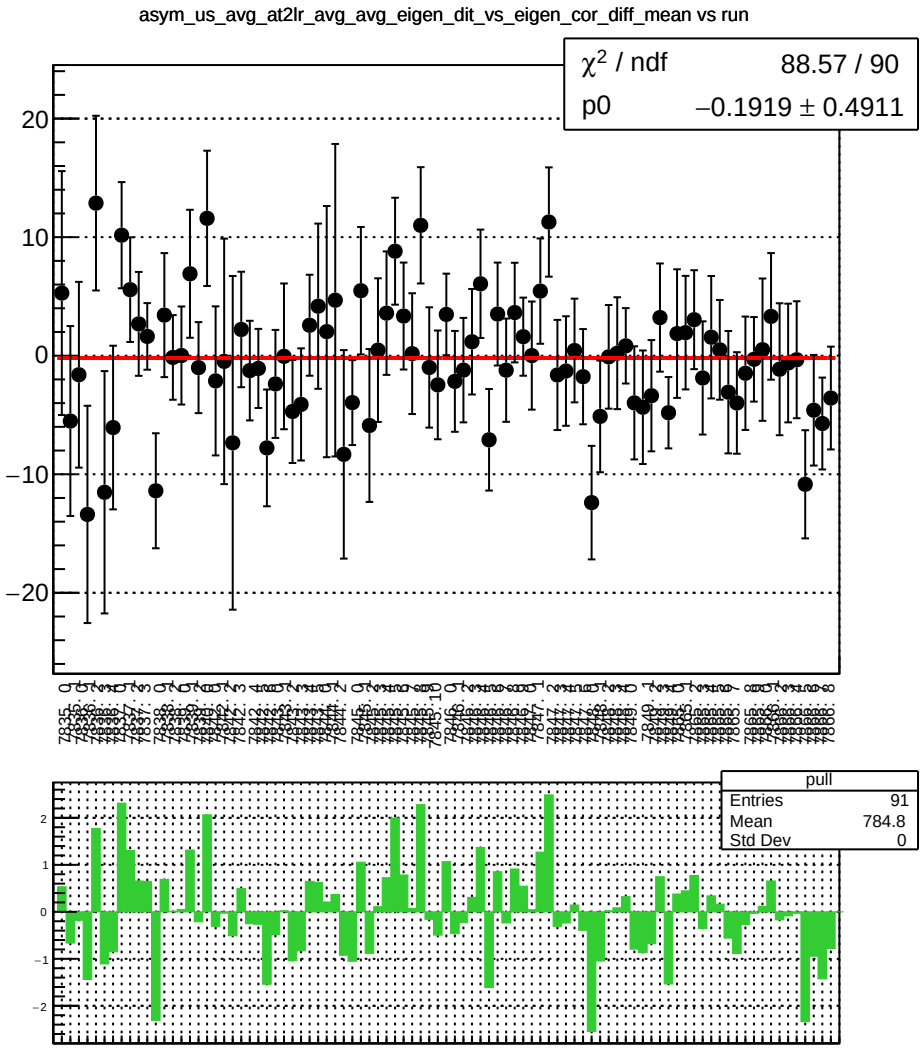

pull1D
Entries 91
Mean 0.01992
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

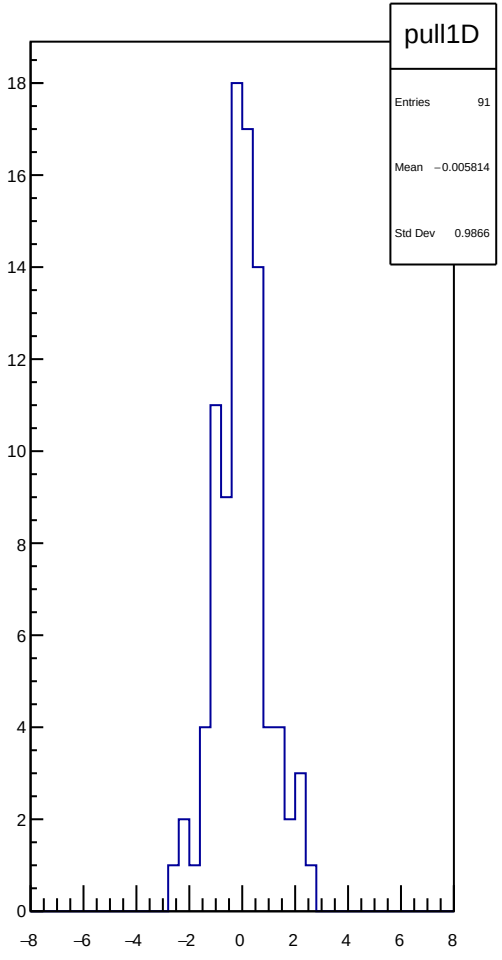

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.738e+04 / 90
p0 0.04295 ± 3.258e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

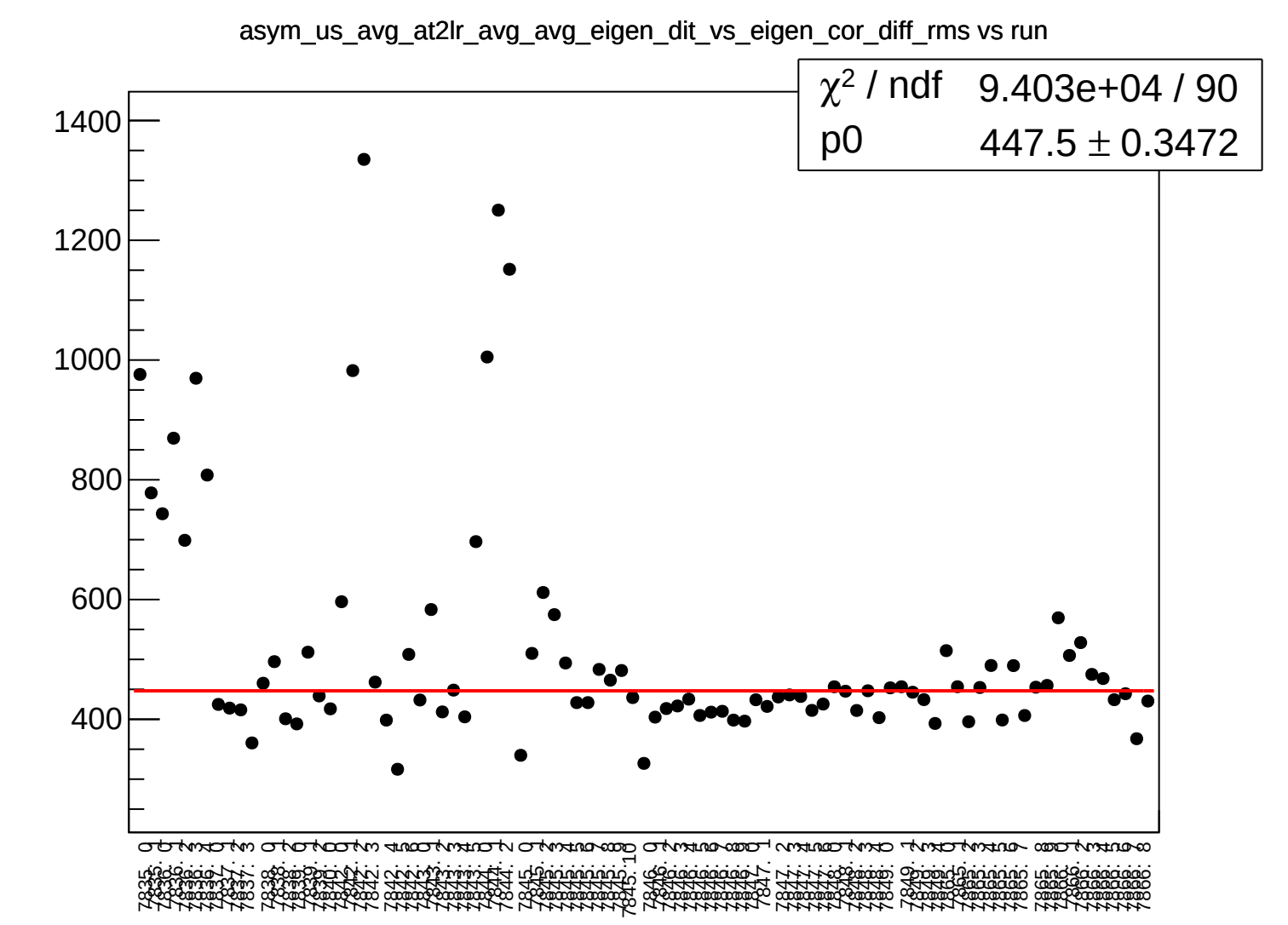

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.57 / 90
p0 −0.1919 ± 0.4911
pull
Entries 91
Mean 784.8
Std Dev 0

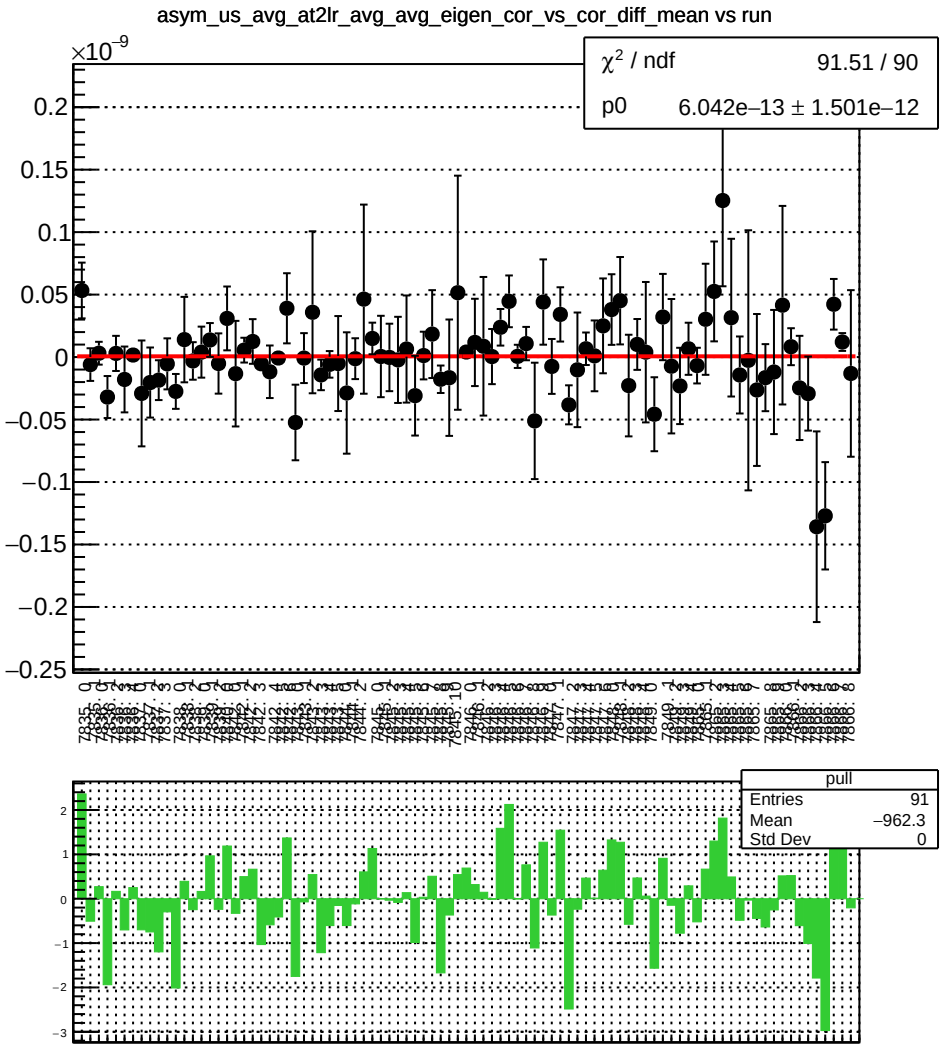

pull1D
Entries 91
Mean −0.005814
Std Dev 0.9866

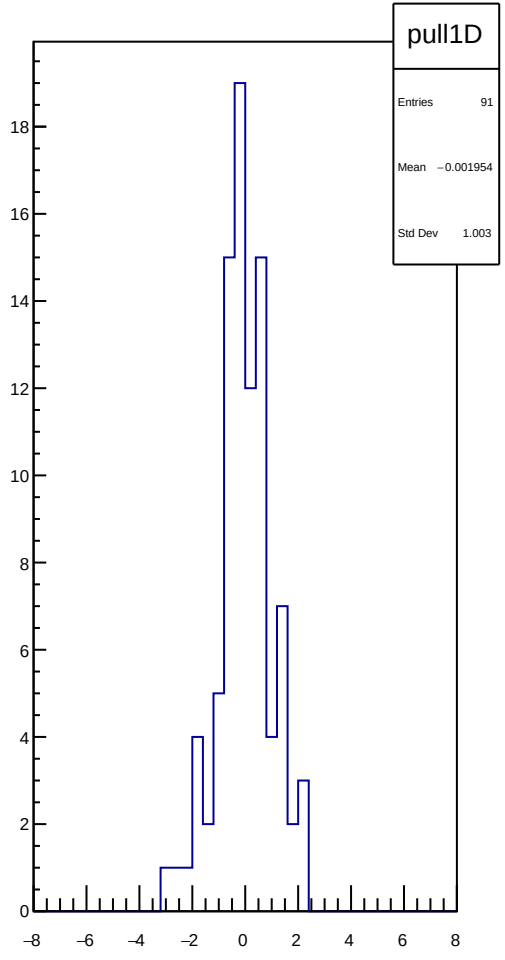

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.403e+04 / 90
p0 447.5 ± 0.3472
1400
1200
1000
800
600
400

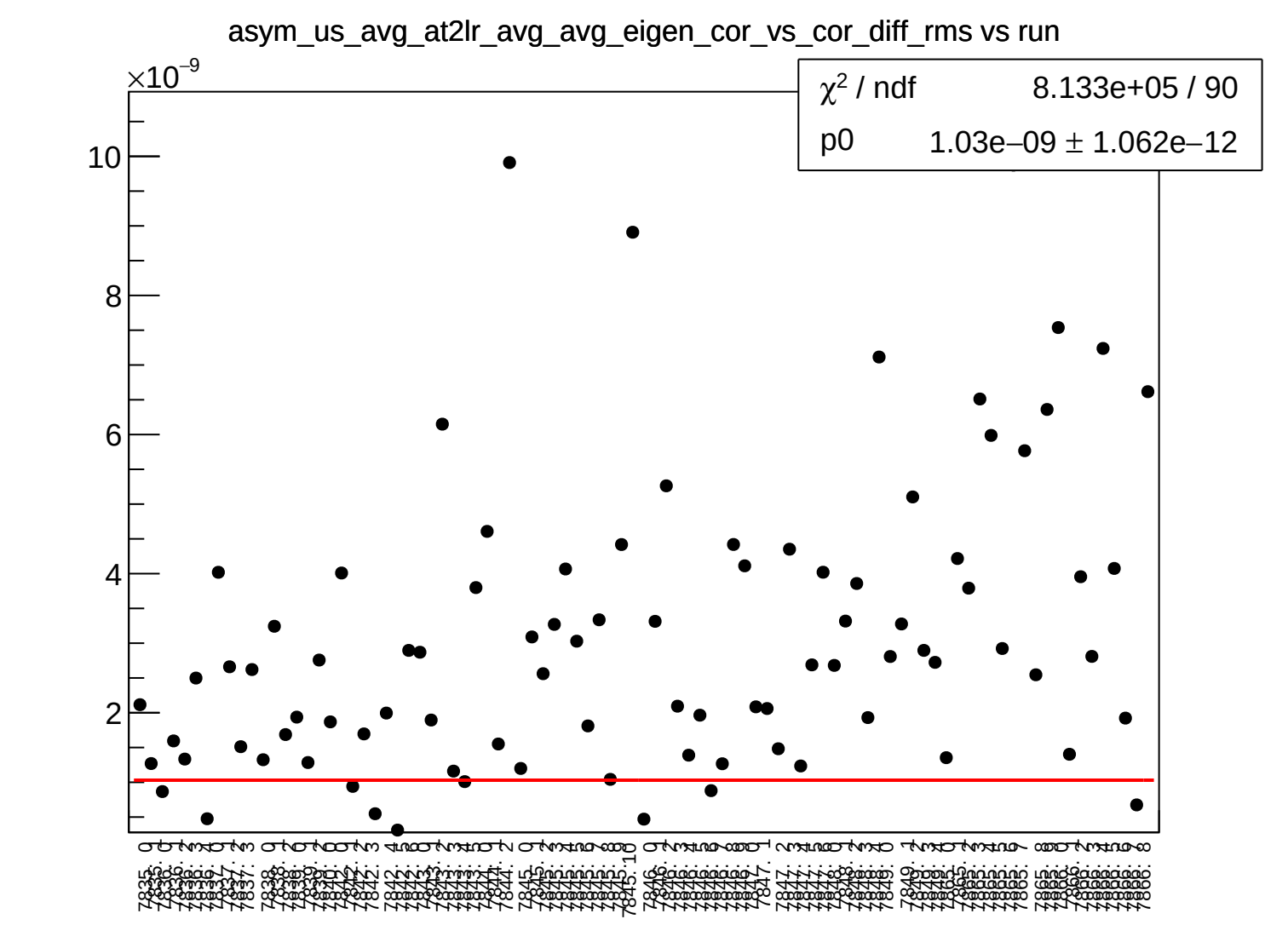

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.57 / 90
p0 −0.1919 ± 0.4911
pull
Entries 91
Mean 784.8
Std Dev 0

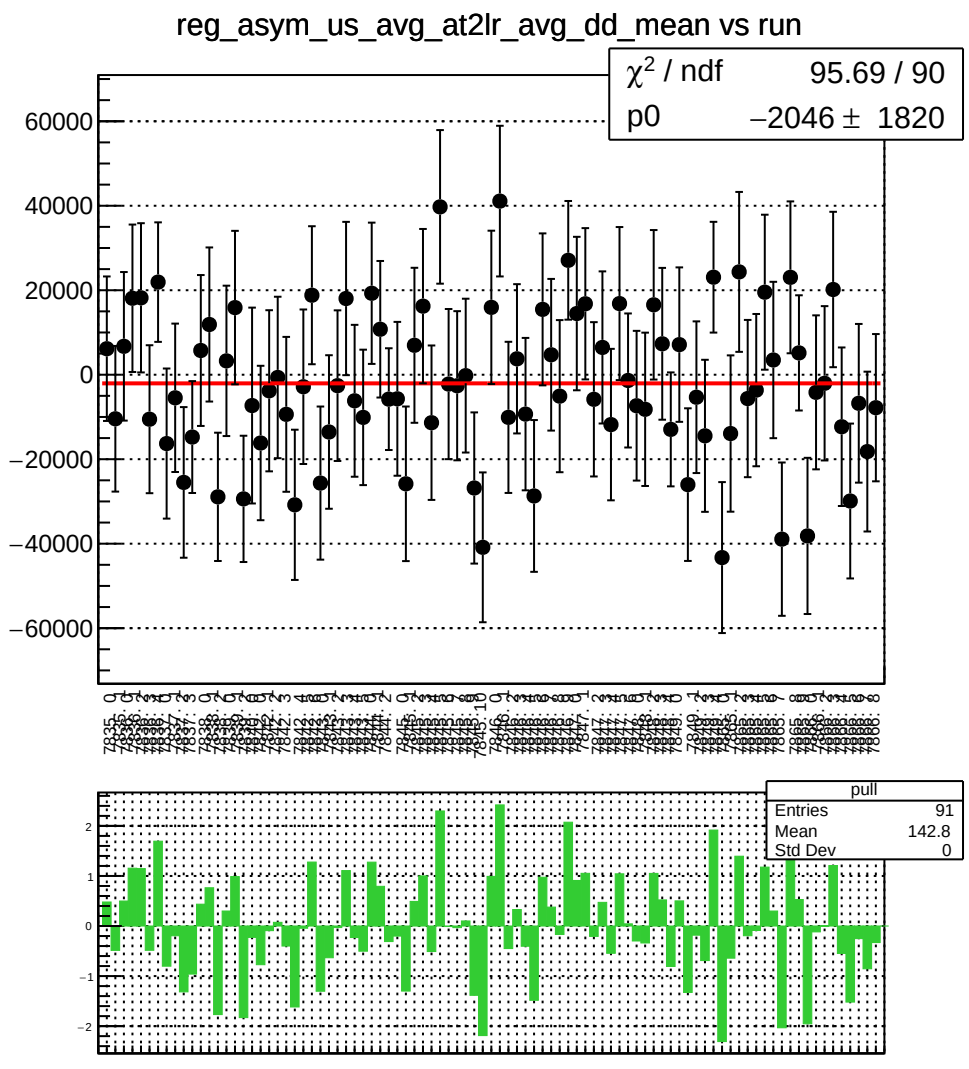

pull1D
Entries 91
Mean −0.005814
Std Dev 0.9866

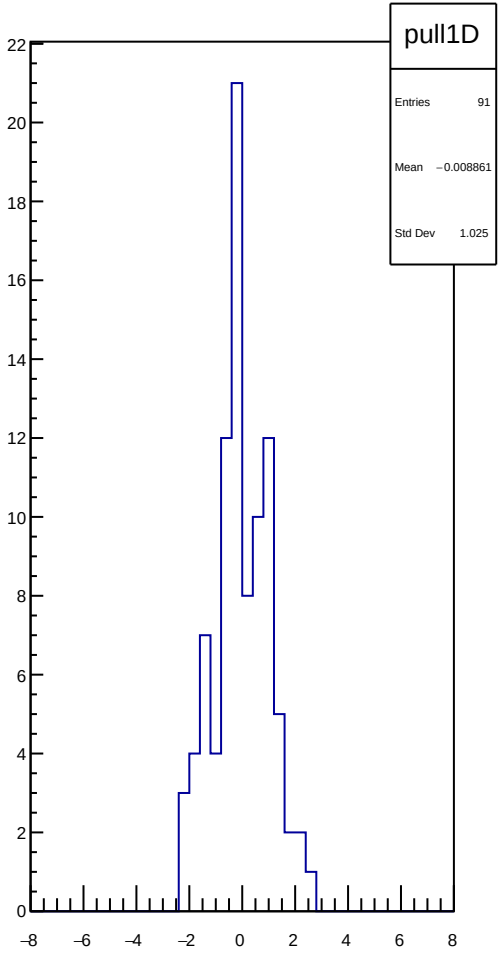

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.403e+04 / 90
p0 447.5 ± 0.3472
1400
1200
1000
800
600
400

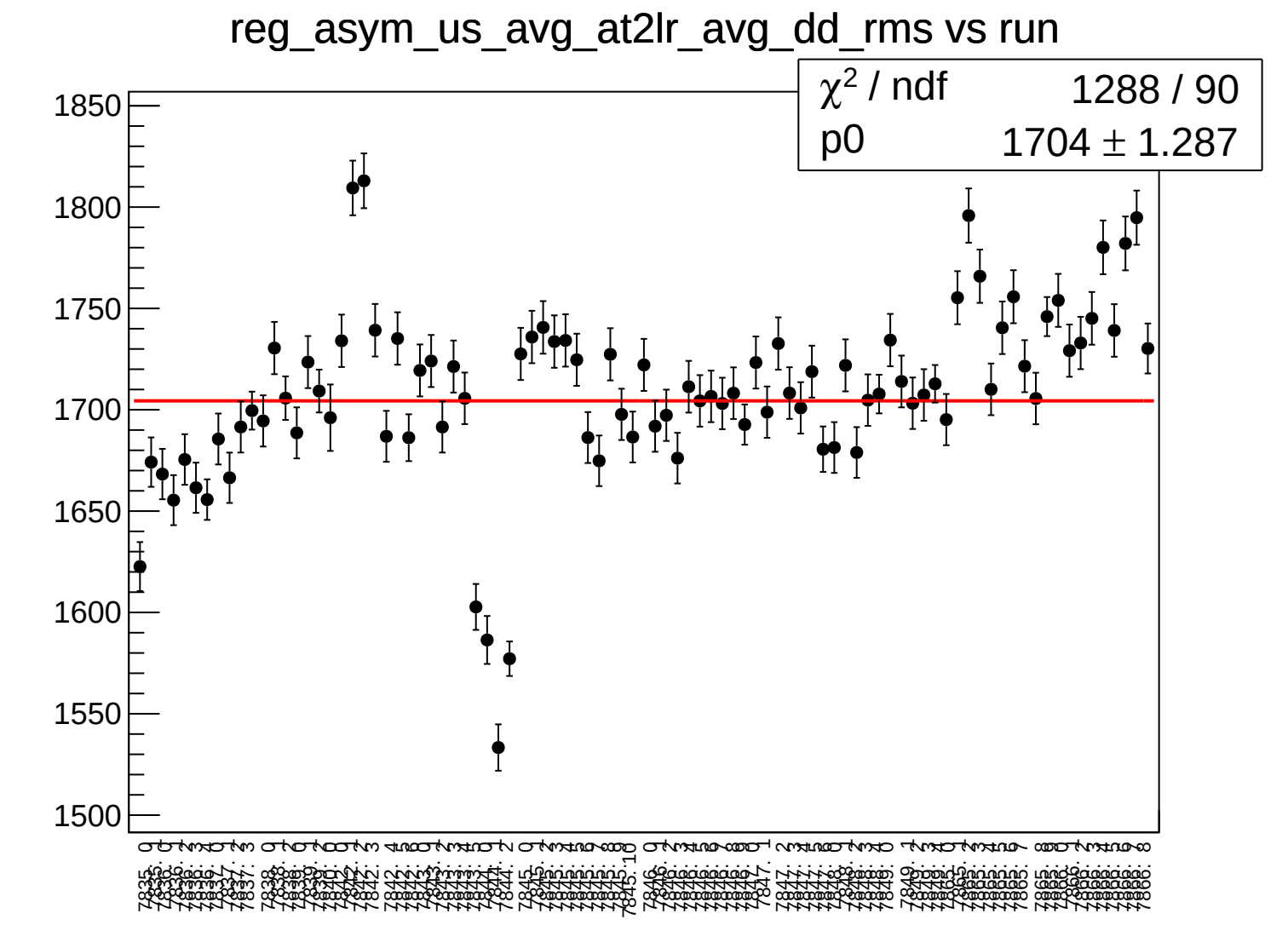

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 91.51 / 90
p0 6.042e−13 ± 1.501e−12
pull
Entries 91
Mean −962.3
Std Dev 0

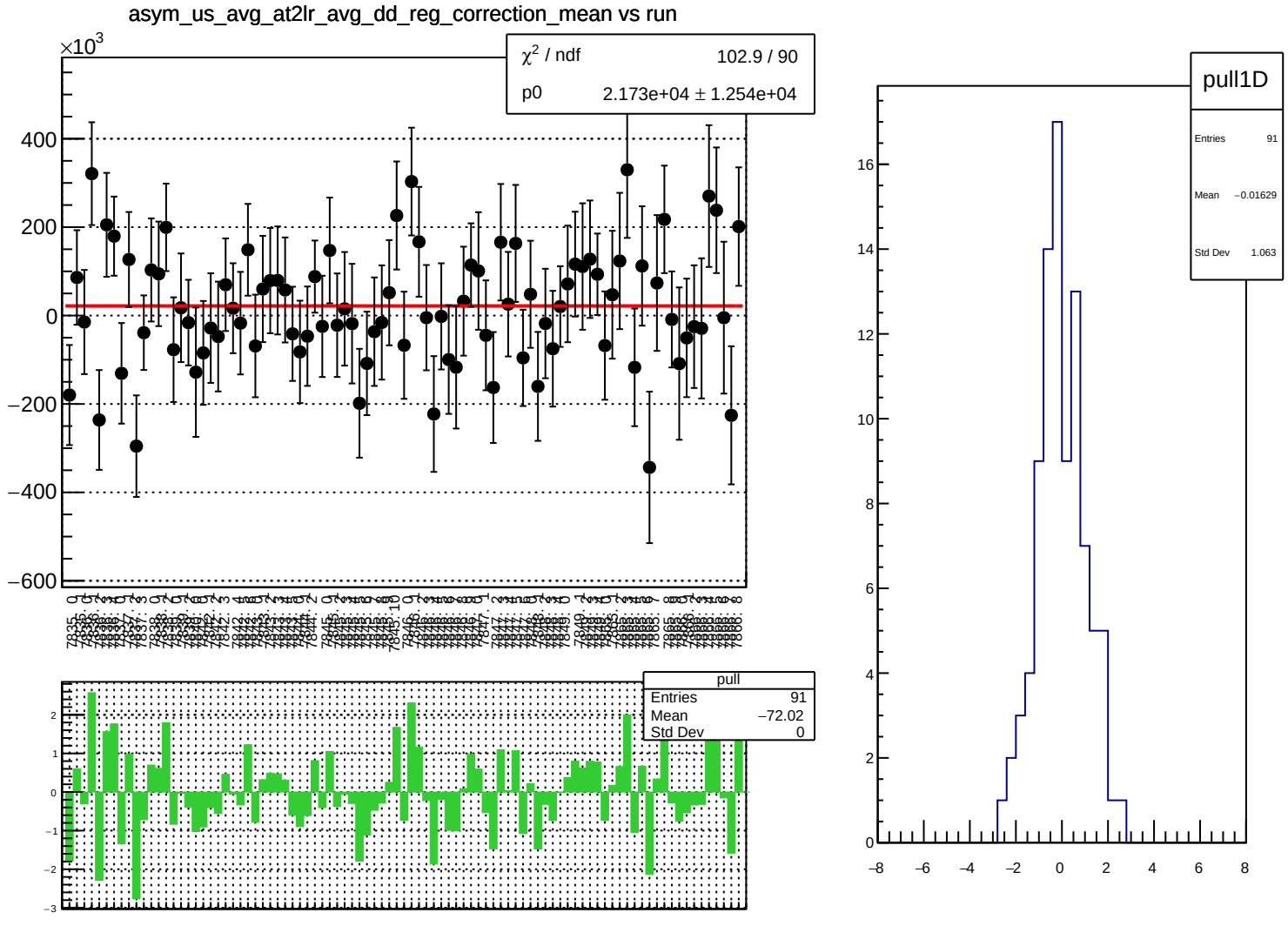

pull1D
Entries 91
Mean −0.001954
Std Dev 1.003

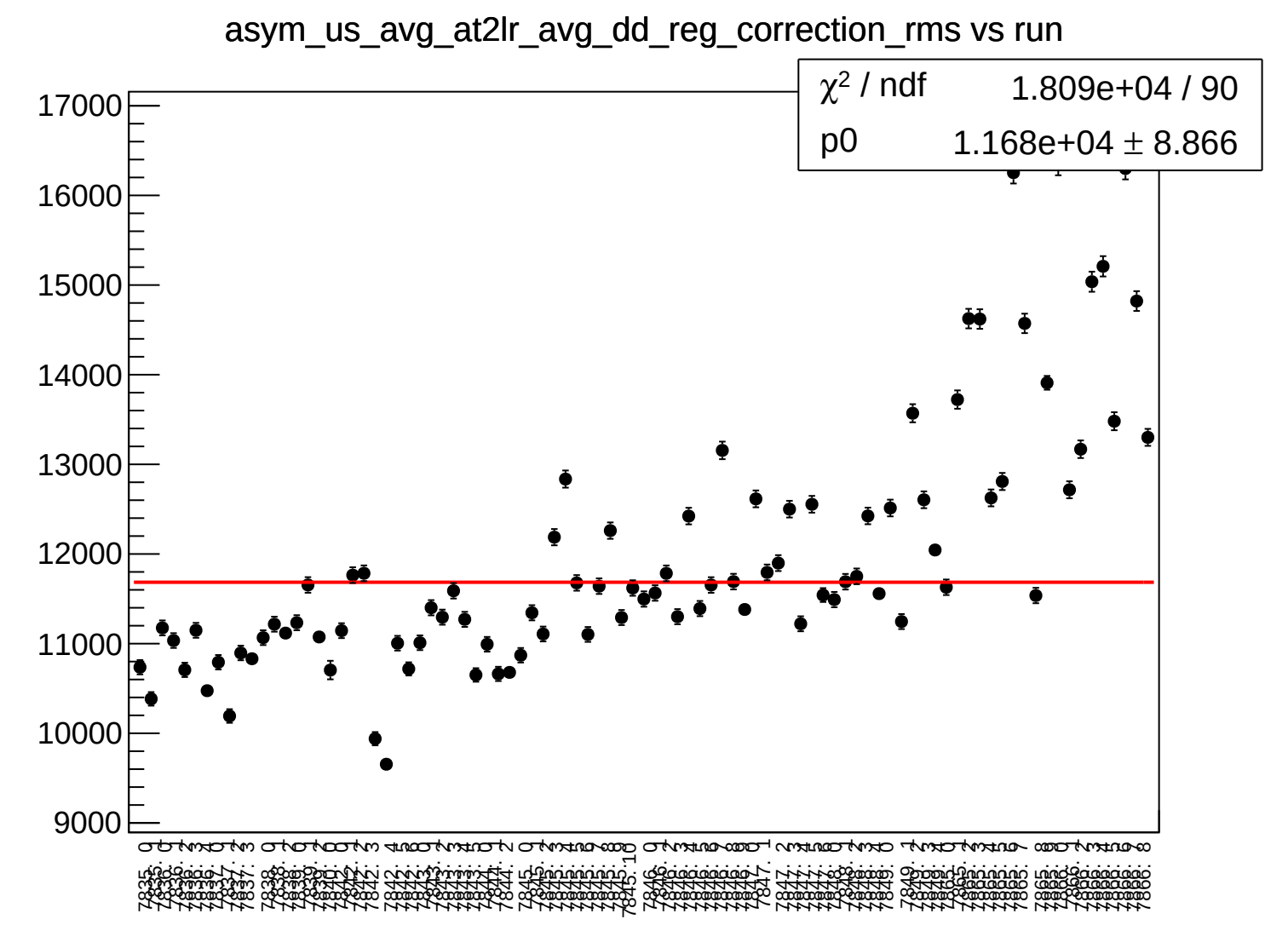

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.133e+05 / 90
p0 1.03e−09 ± 1.062e−12
10
8
6
4
2

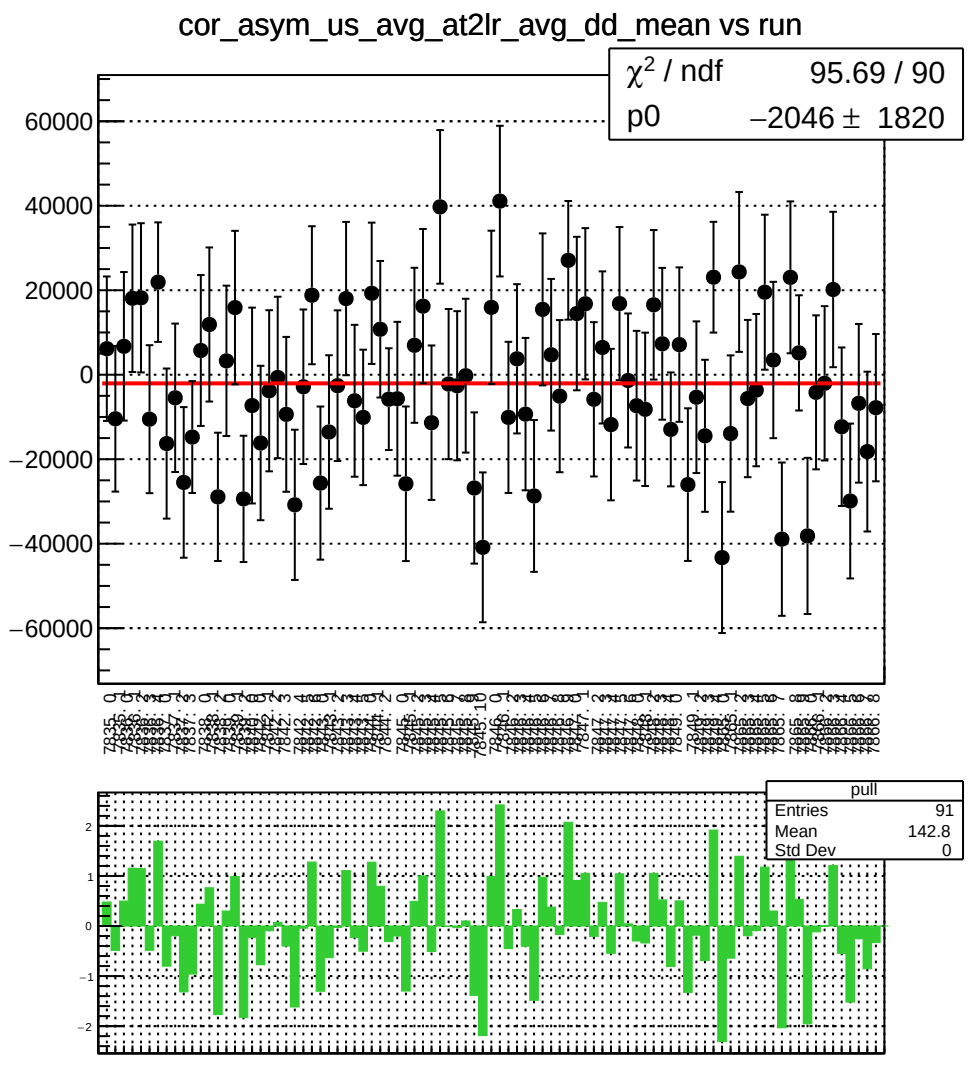

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.69 / 90
p0 −2046 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 142.8
Std Dev 0
2
1
0
−1
−2

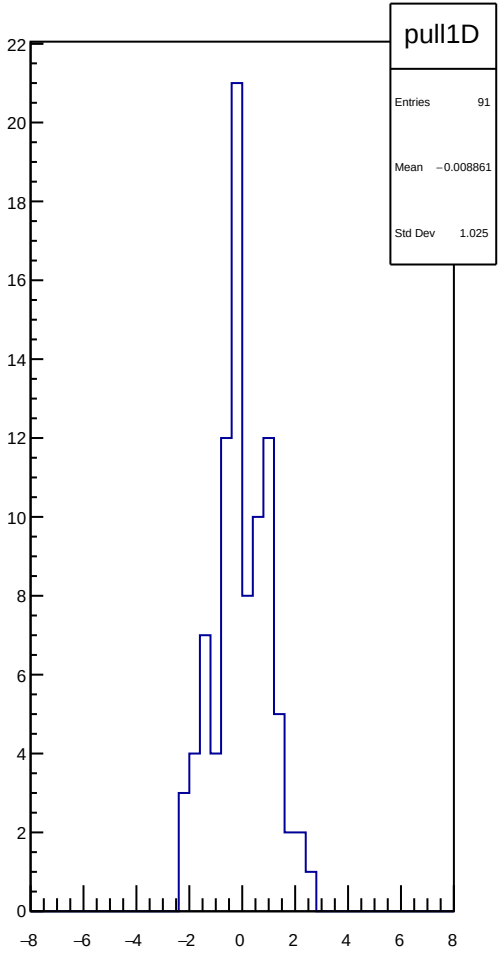

pull1D
Entries 91
Mean −0.008861
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

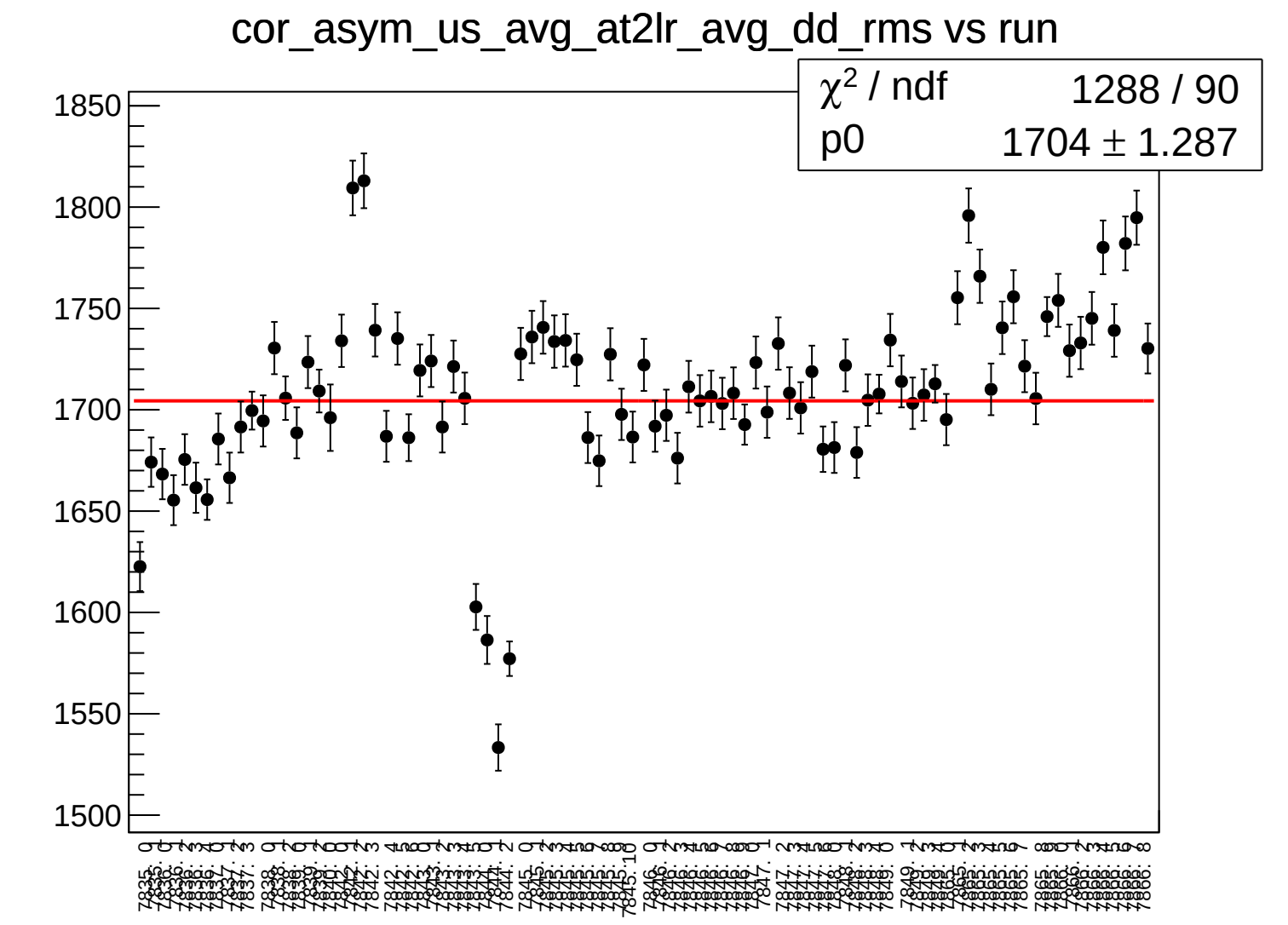

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1288 / 90
p0 1704 ± 1.287
1850
1800
1750
1700
1650
1600
1550
1500

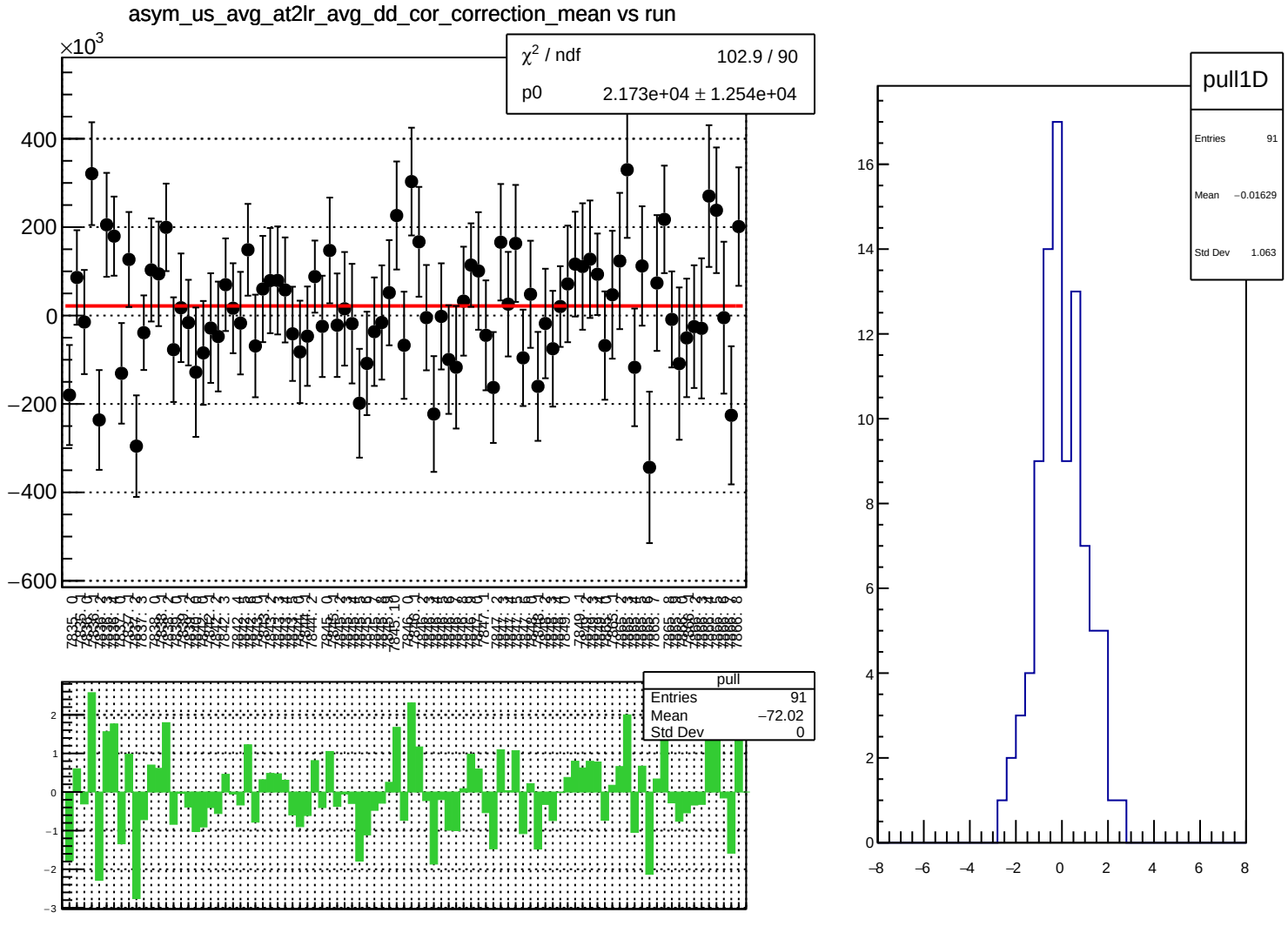

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 102.9 / 90
p0 2.173e+04 ± 1.254e+04
400
200
0
−200
−400
−600
pull
Entries 91
Mean −72.02
Std Dev 0
pull1D
Entries 91
Mean −0.01629
Std Dev 1.063

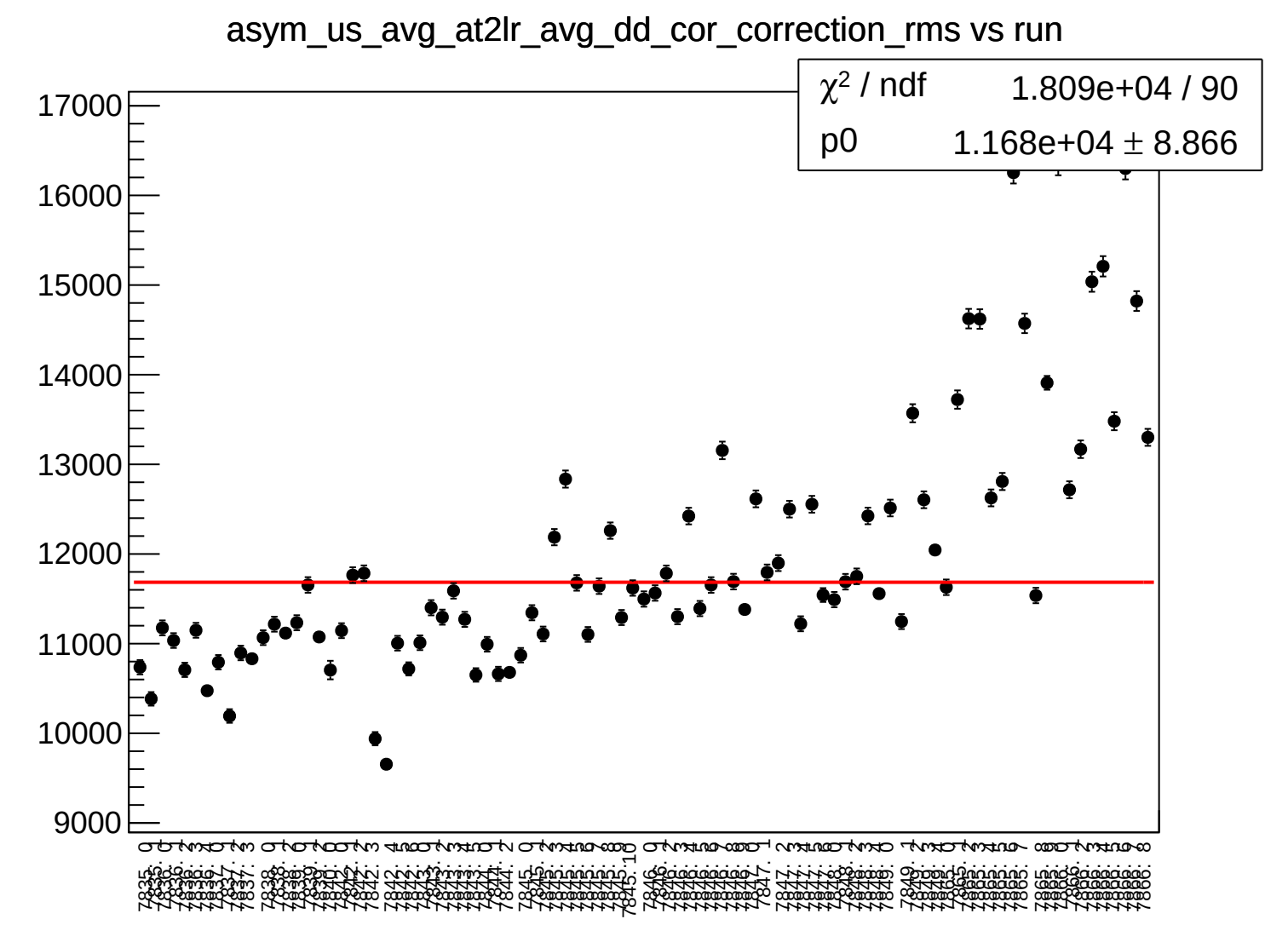

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.809e+04 / 90
p0 1.168e+04 ± 8.866
17000
16000
15000
14000
13000
12000
11000
10000
9000

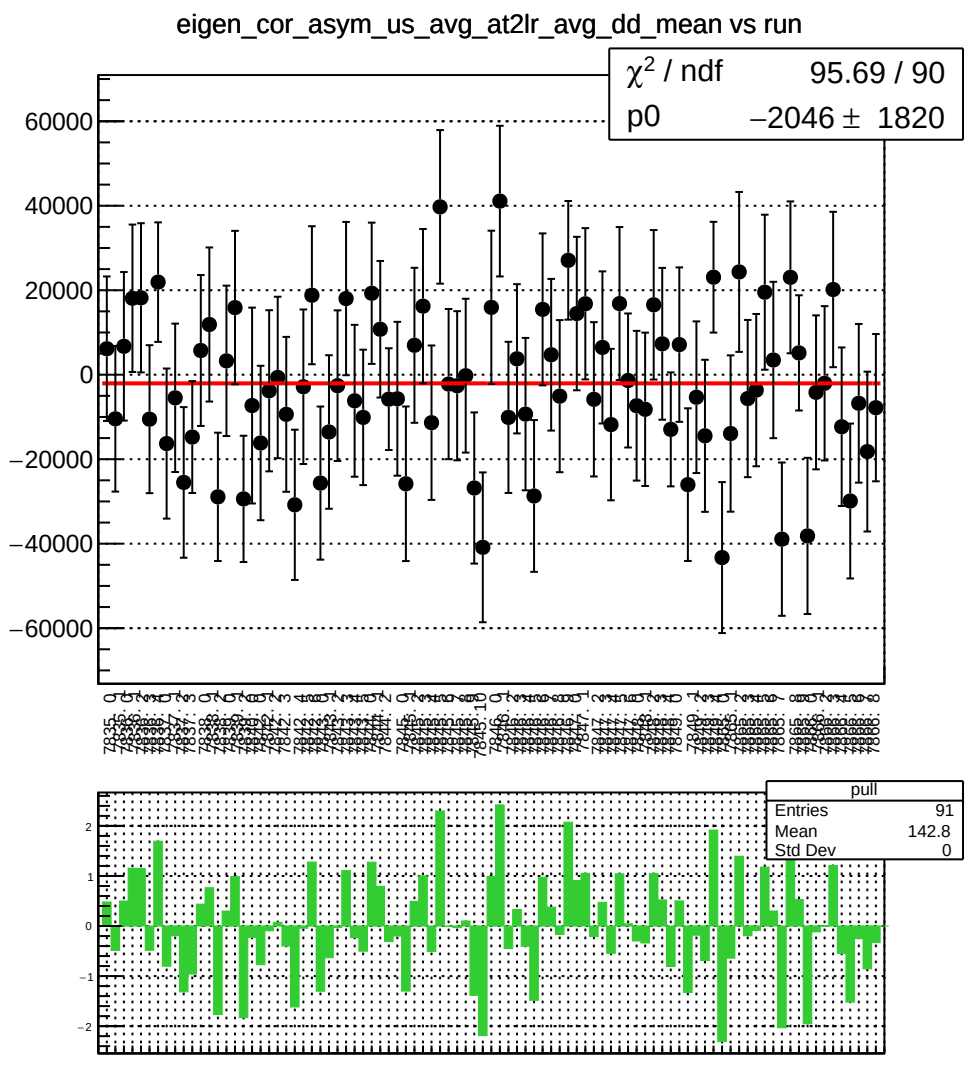

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.69 / 90
p0 −2046 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 142.8
Std Dev 0
2
1
0
−1
−2

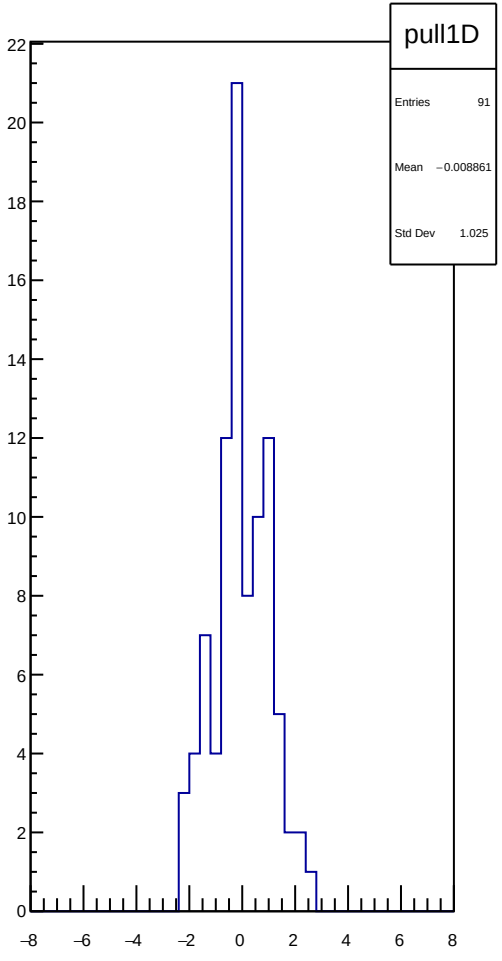

pull1D
Entries 91
Mean −0.008861
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

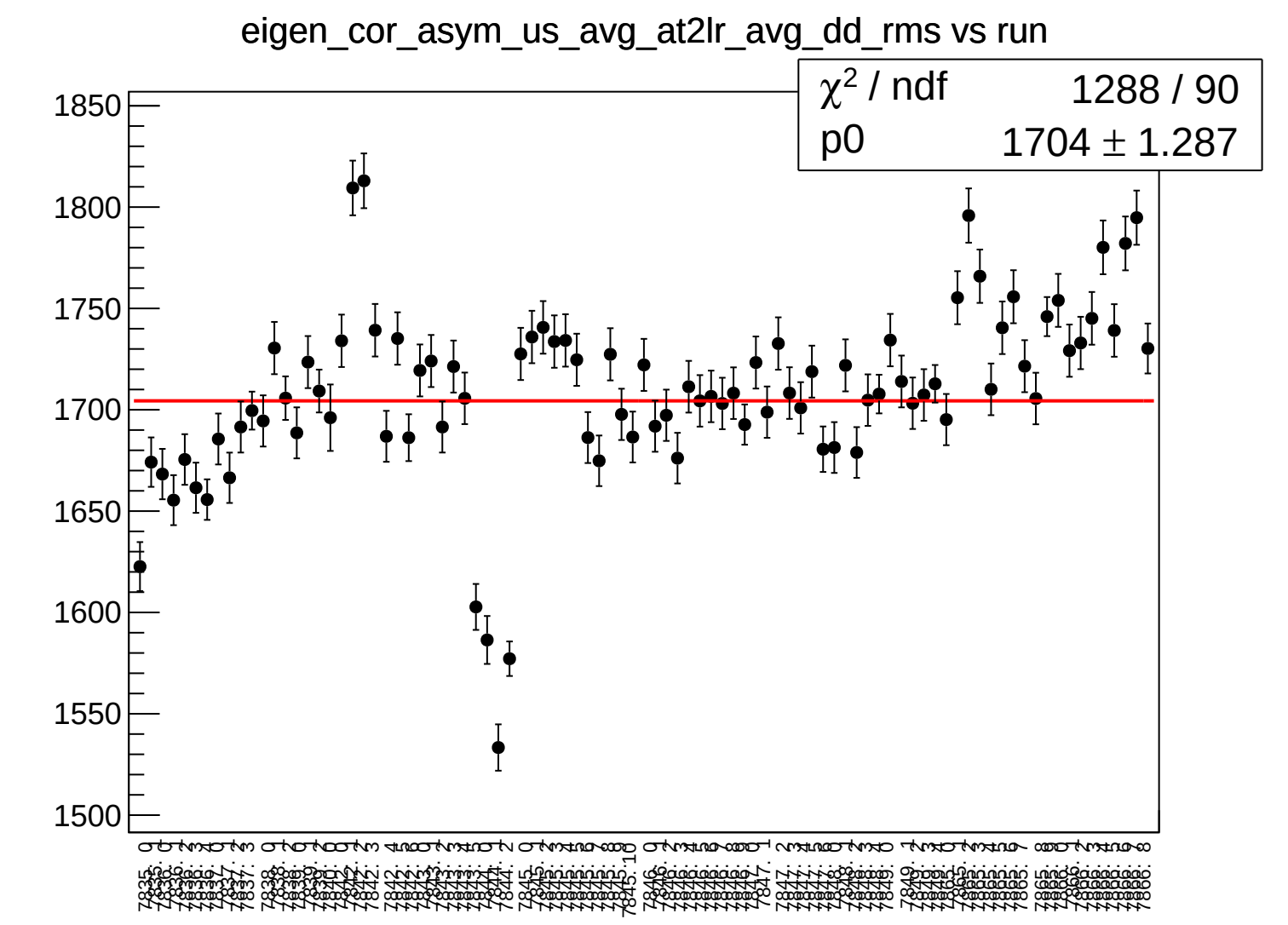

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1288 / 90
p0 1704 ± 1.287
1850
1800
1750
1700
1650
1600
1550
1500

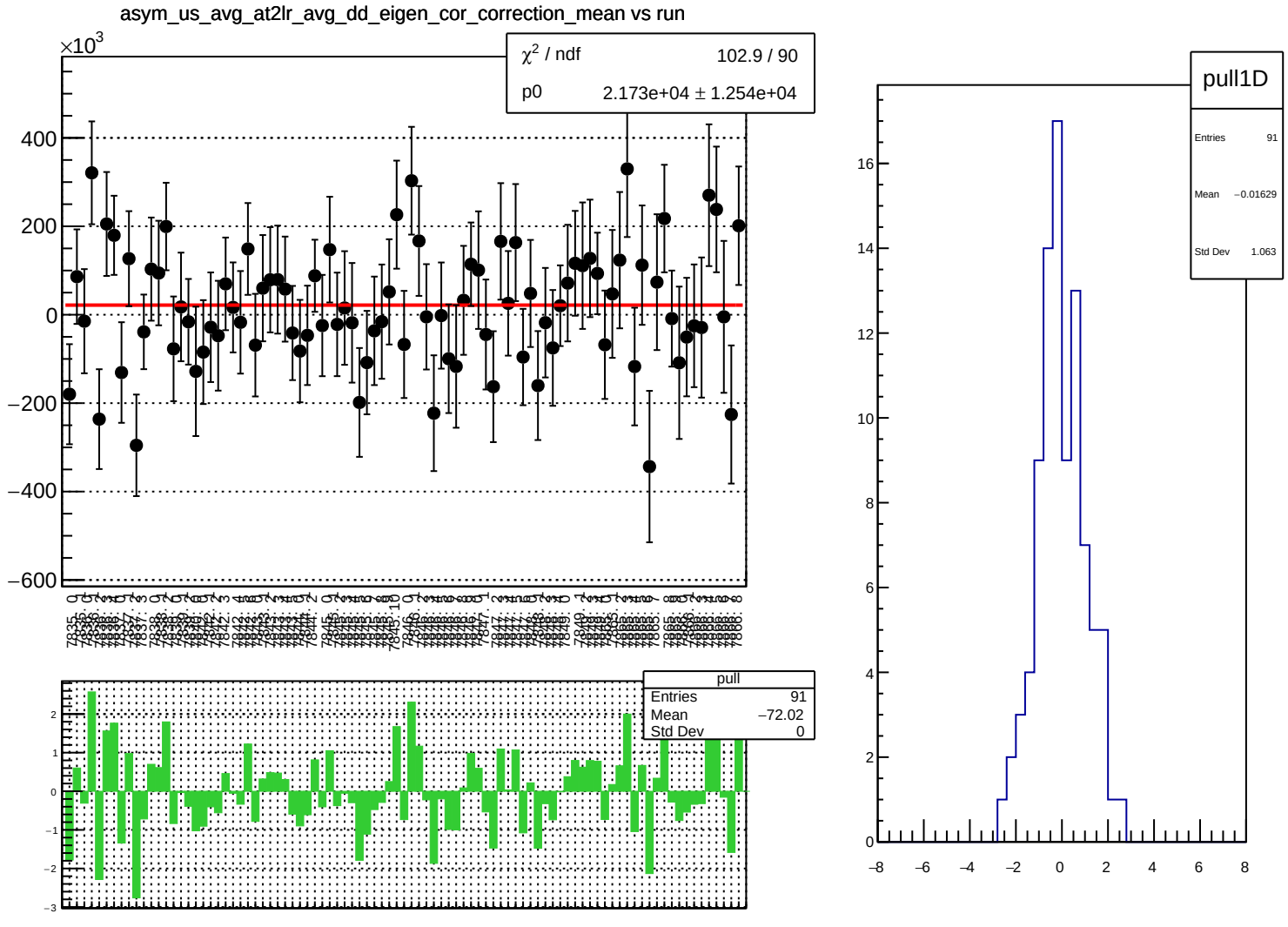

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 102.9 / 90
p0 2.173e+04 ± 1.254e+04
400
200
0
−200
−400
−600
pull
Entries 91
Mean −72.02
Std Dev 0
pull1D
Entries 91
Mean −0.01629
Std Dev 1.063

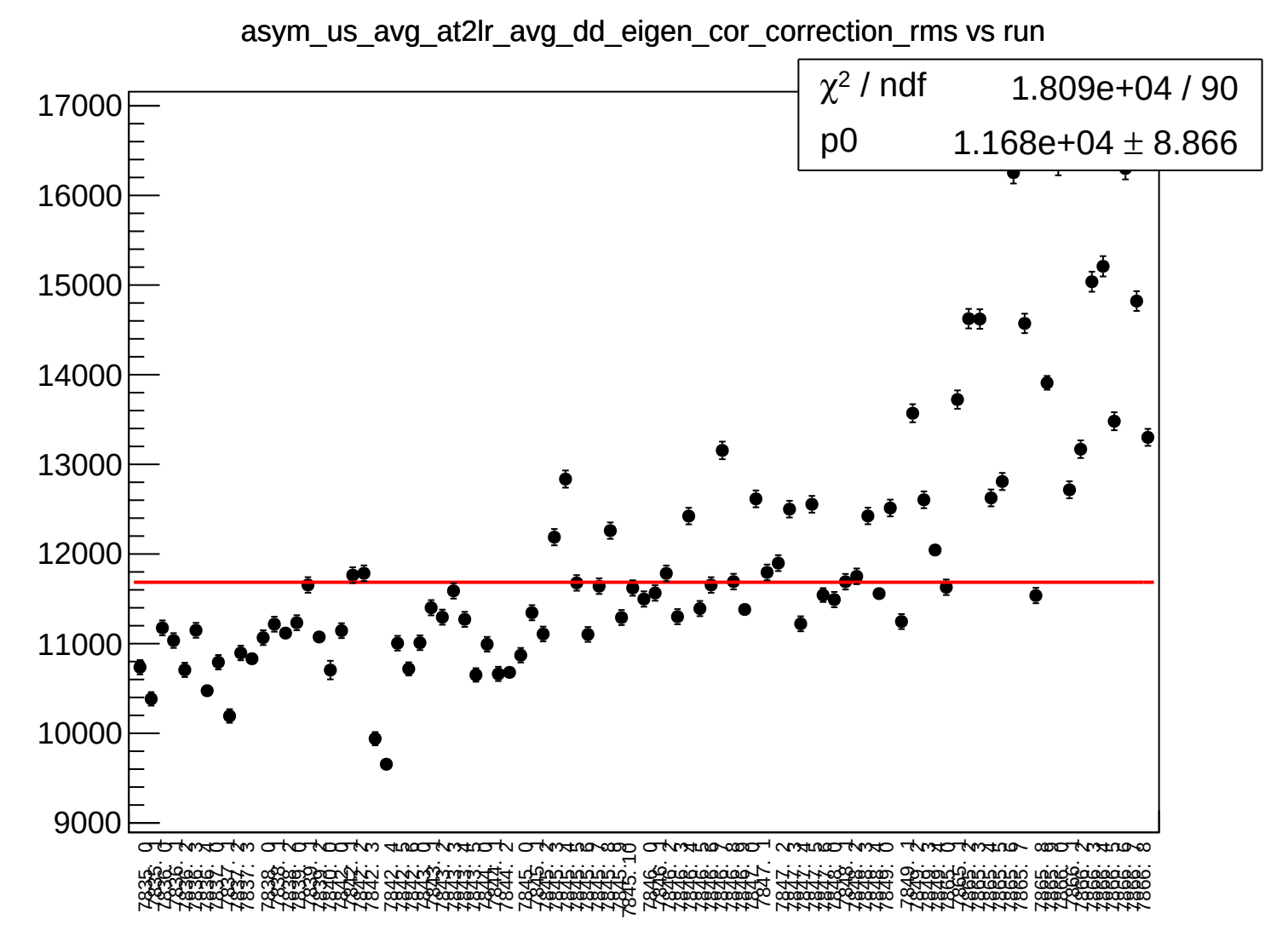

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 1.809e+04 / 90
p0 1.168e+04 ± 8.866
17000
16000
15000
14000
13000
12000
11000
10000
9000

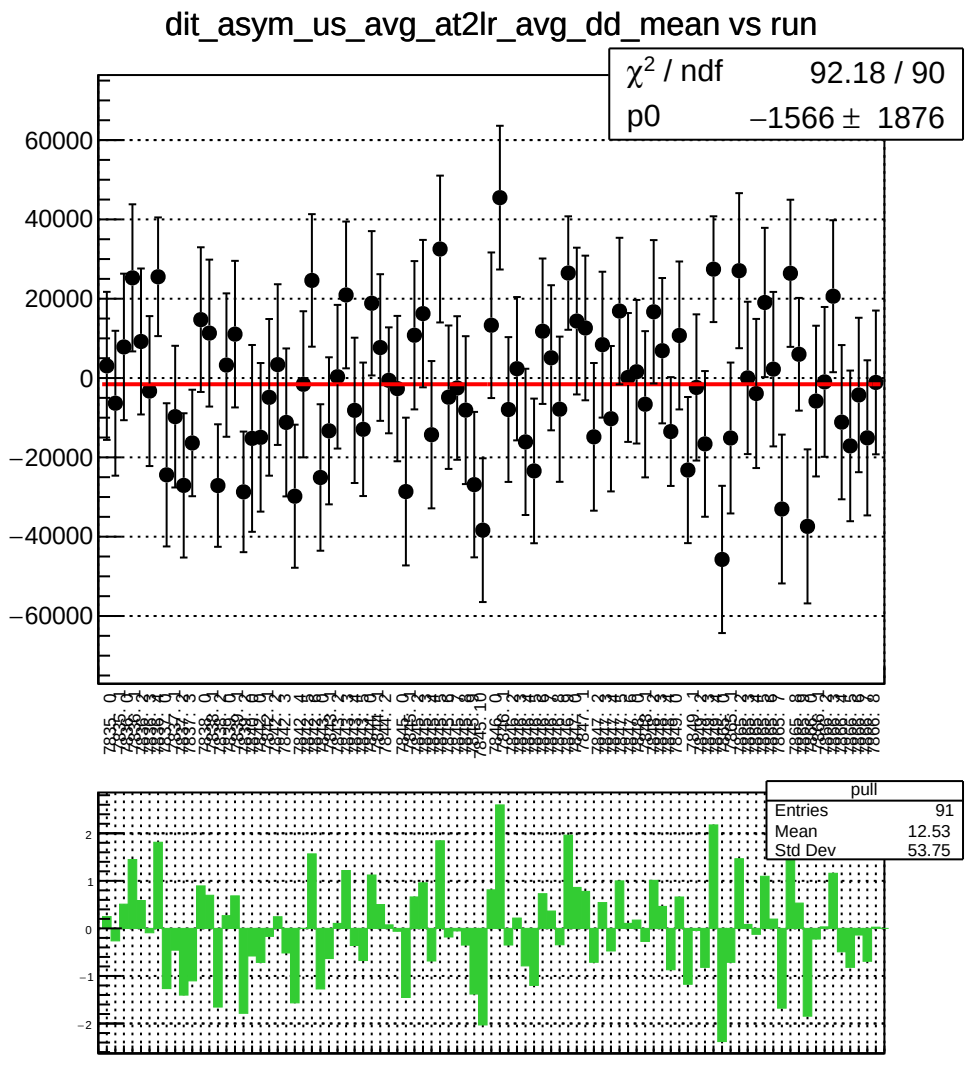

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.69 / 90
p0 −2046 ± 1820
pull
Entries 91
Mean 142.8
Std Dev 0

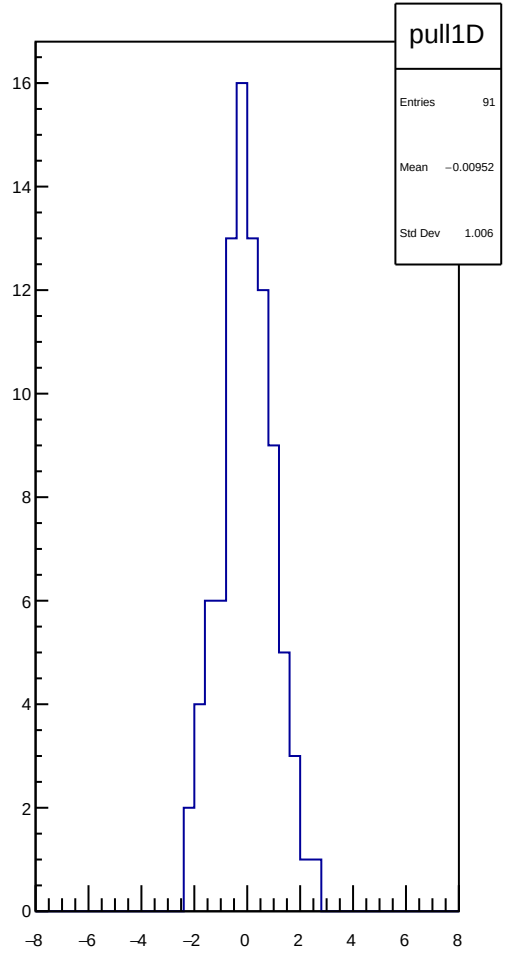

pull1D
Entries 91
Mean −0.008861
Std Dev 1.025

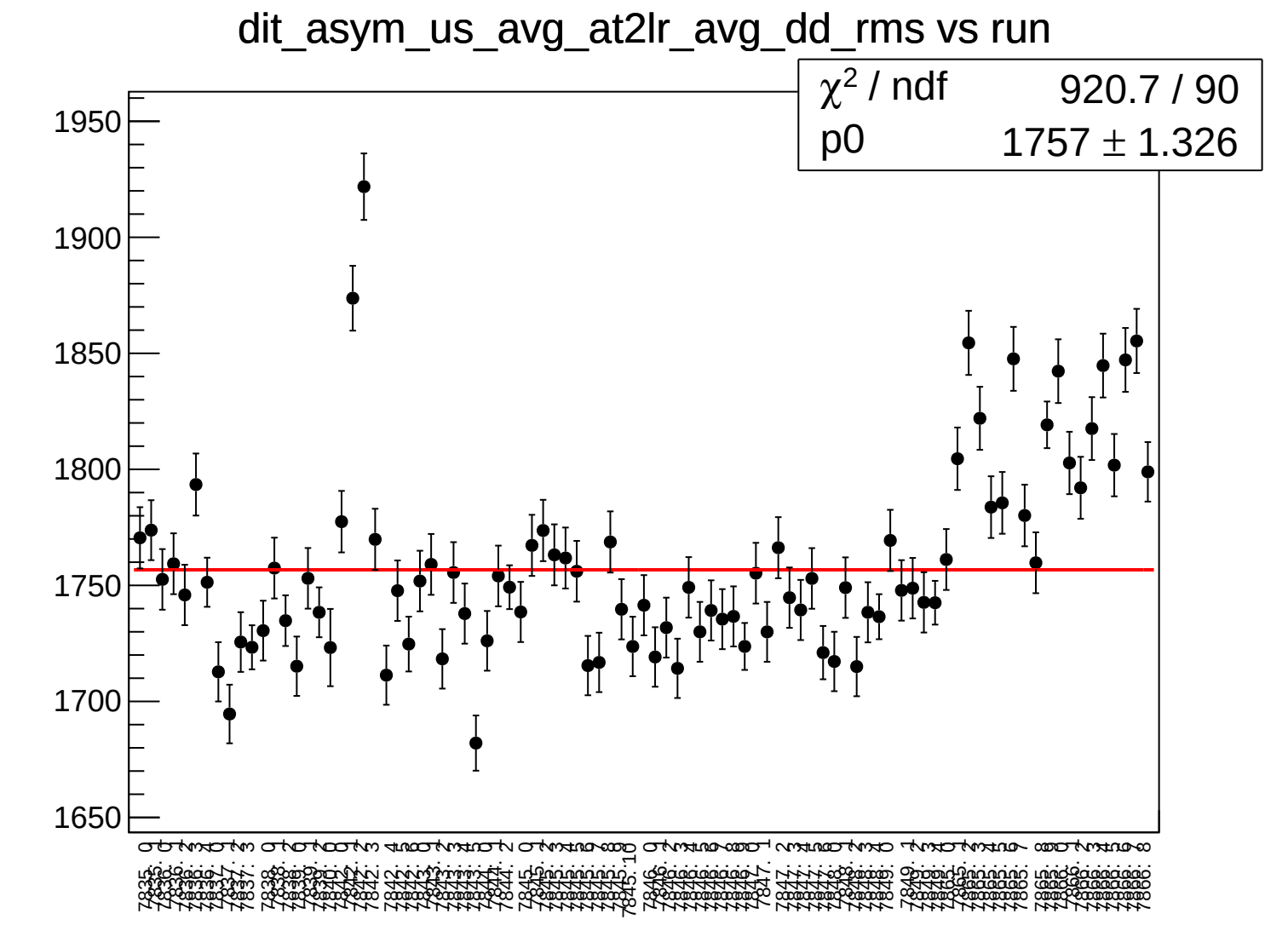

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1288 / 90
p0 1704 ± 1.287
1850
1800
1750
1700
1650
1600
1550
1500

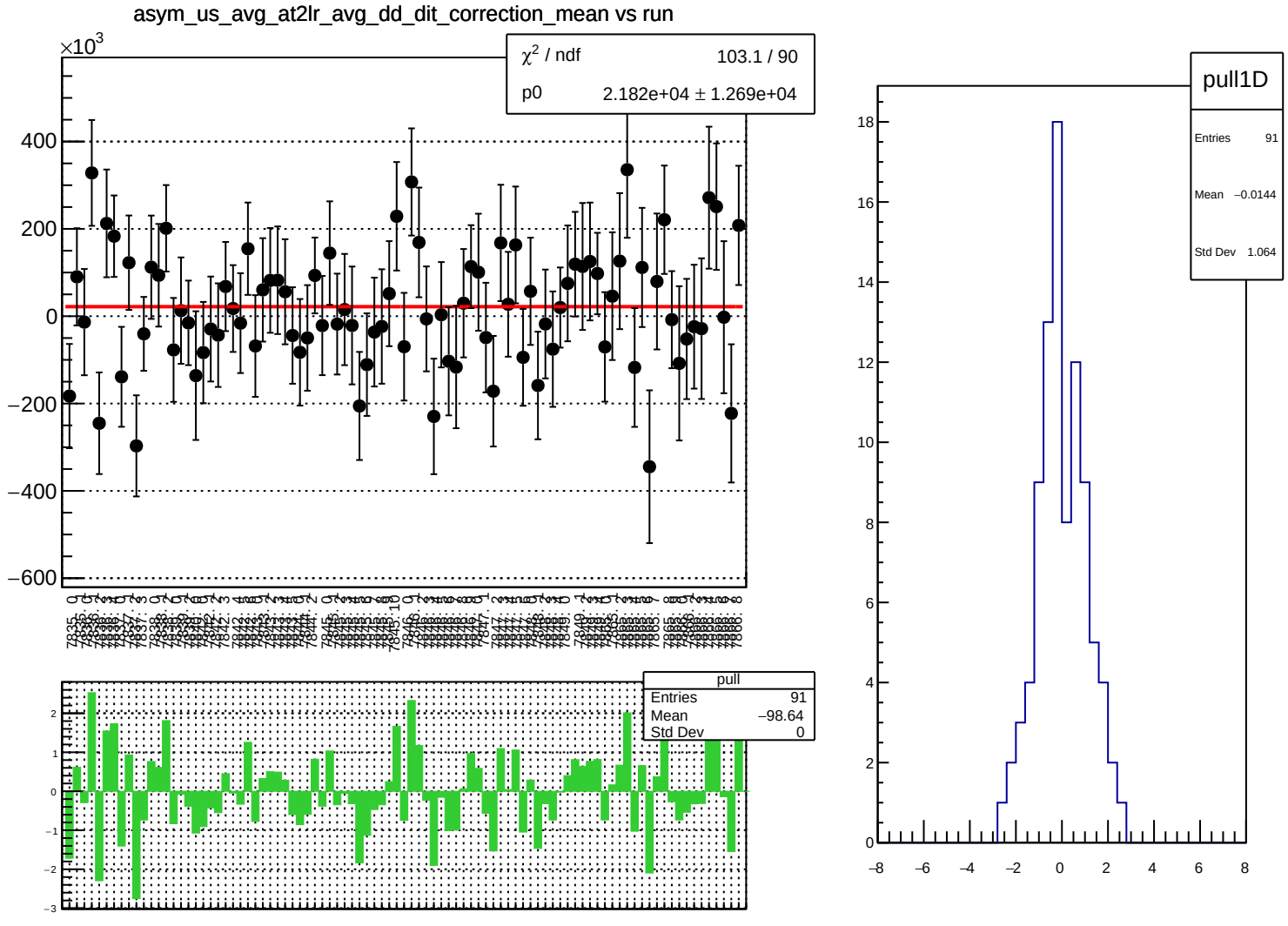

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.9 / 90
p0 2.173e+04 ± 1.254e+04
400
200
0
−200
−400
−600
pull
Entries 91
Mean −72.02
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01629
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

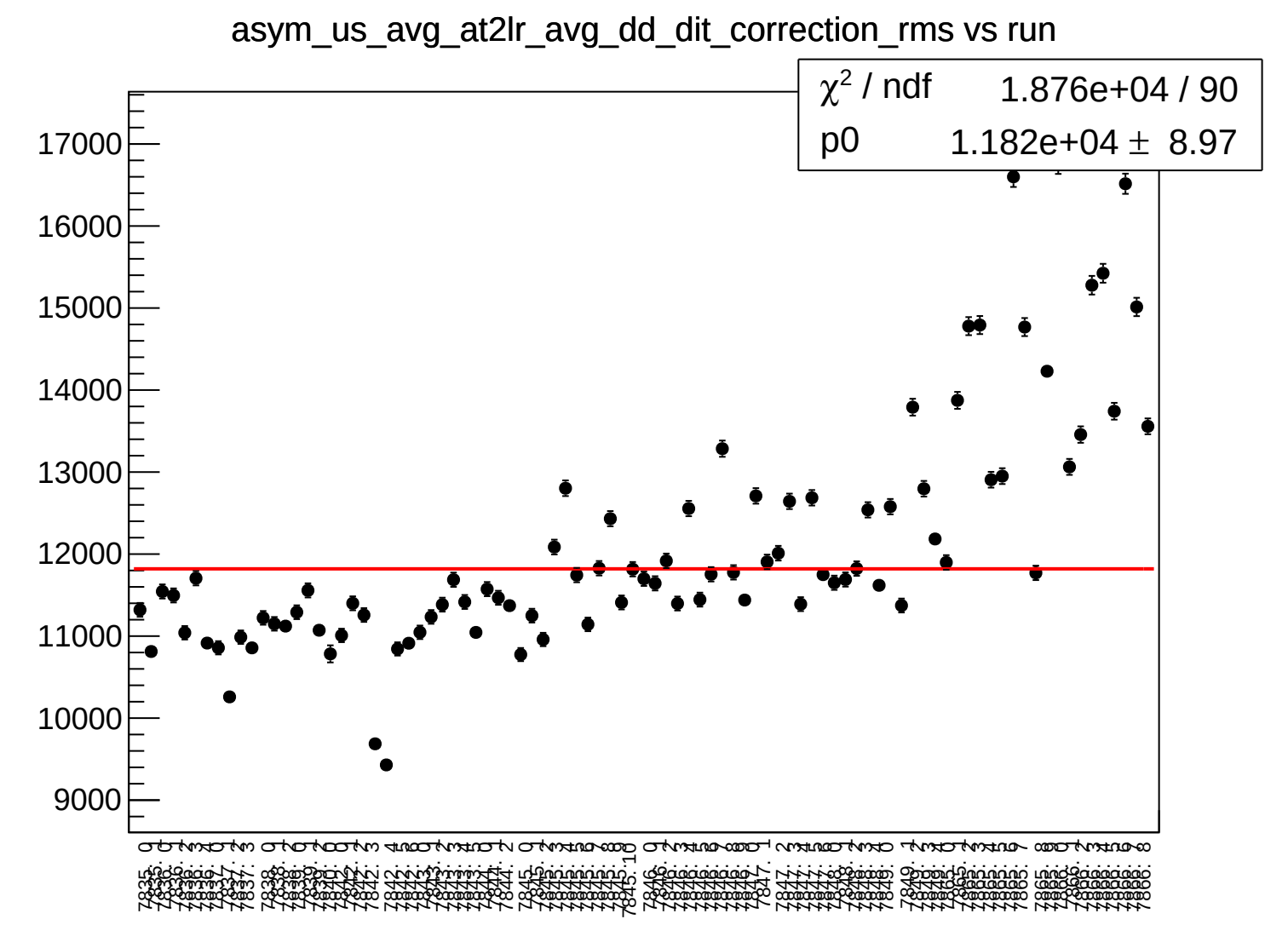

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.809e+04 / 90
p0 1.168e+04 ± 8.866
17000
16000
15000
14000
13000
12000
11000
10000
9000

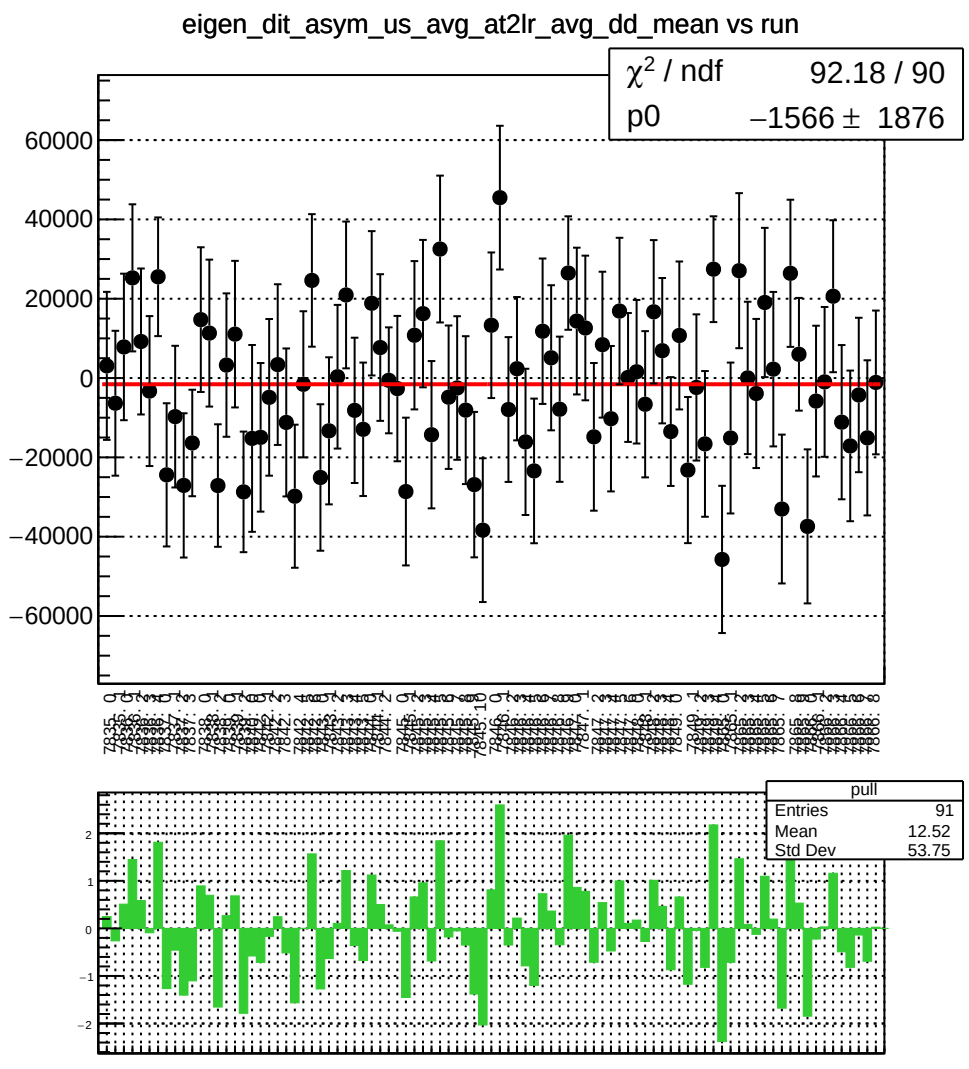

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 92.18 / 90
p0 −1566 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 12.53
Std Dev 53.75
2
1
0
−1
−2

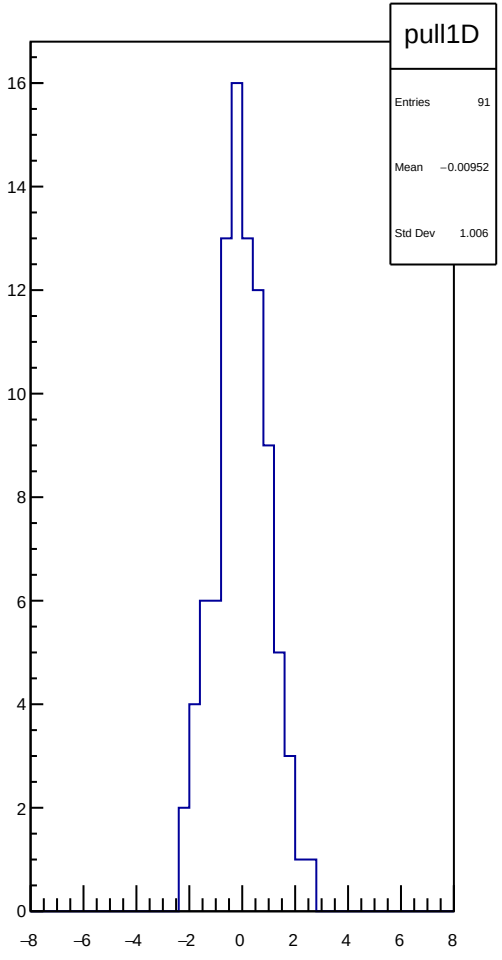

pull1D
Entries 91
Mean −0.00952
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

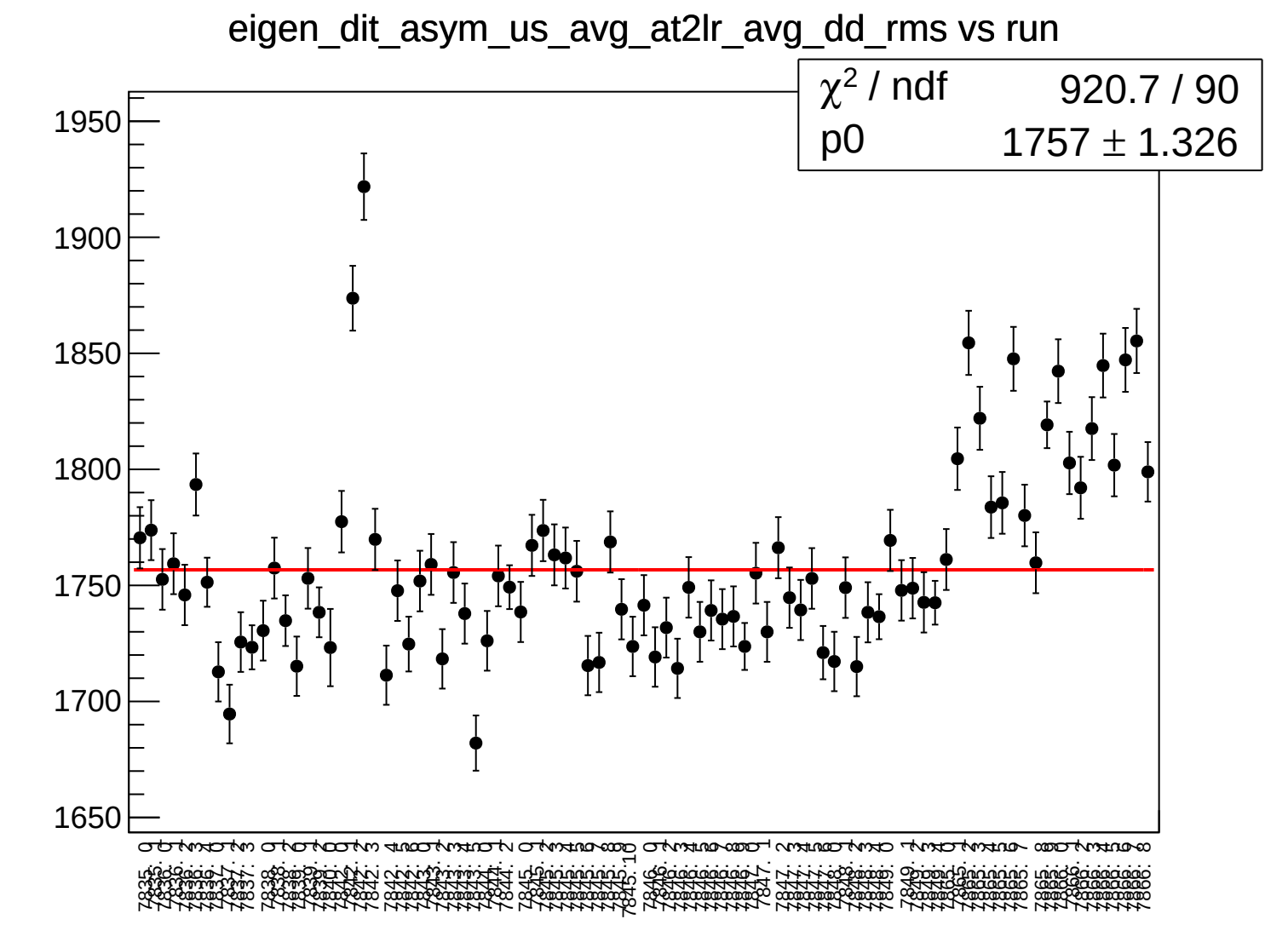

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 920.7 / 90
p0 1757 ± 1.326
1950
1900
1850
1800
1750
1700
1650

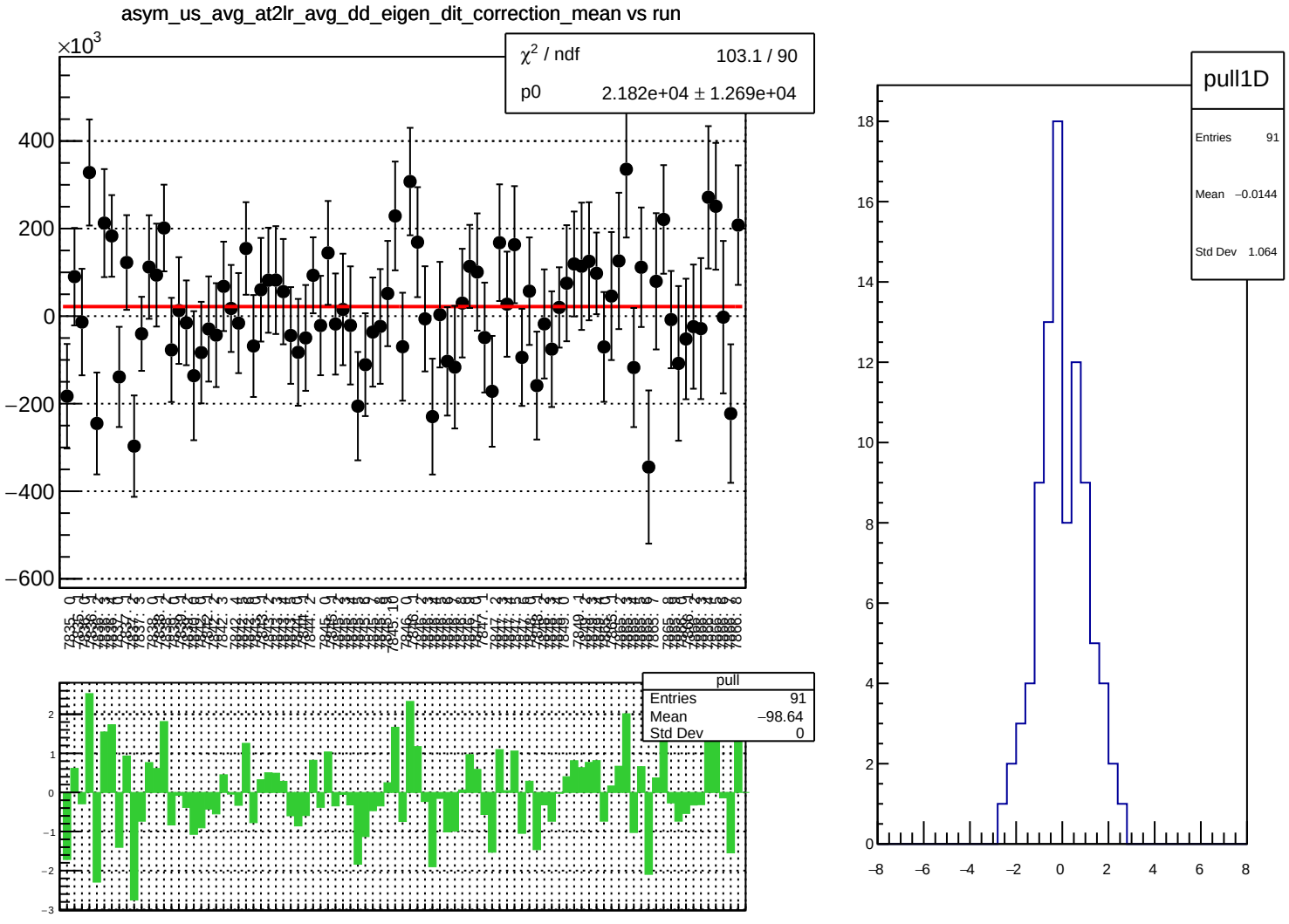

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 103.1 / 90
p0 2.182e+04 ± 1.269e+04
pull
Entries 91
Mean −98.64
Std Dev 0
pull1D
Entries 91
Mean −0.0144
Std Dev 1.064

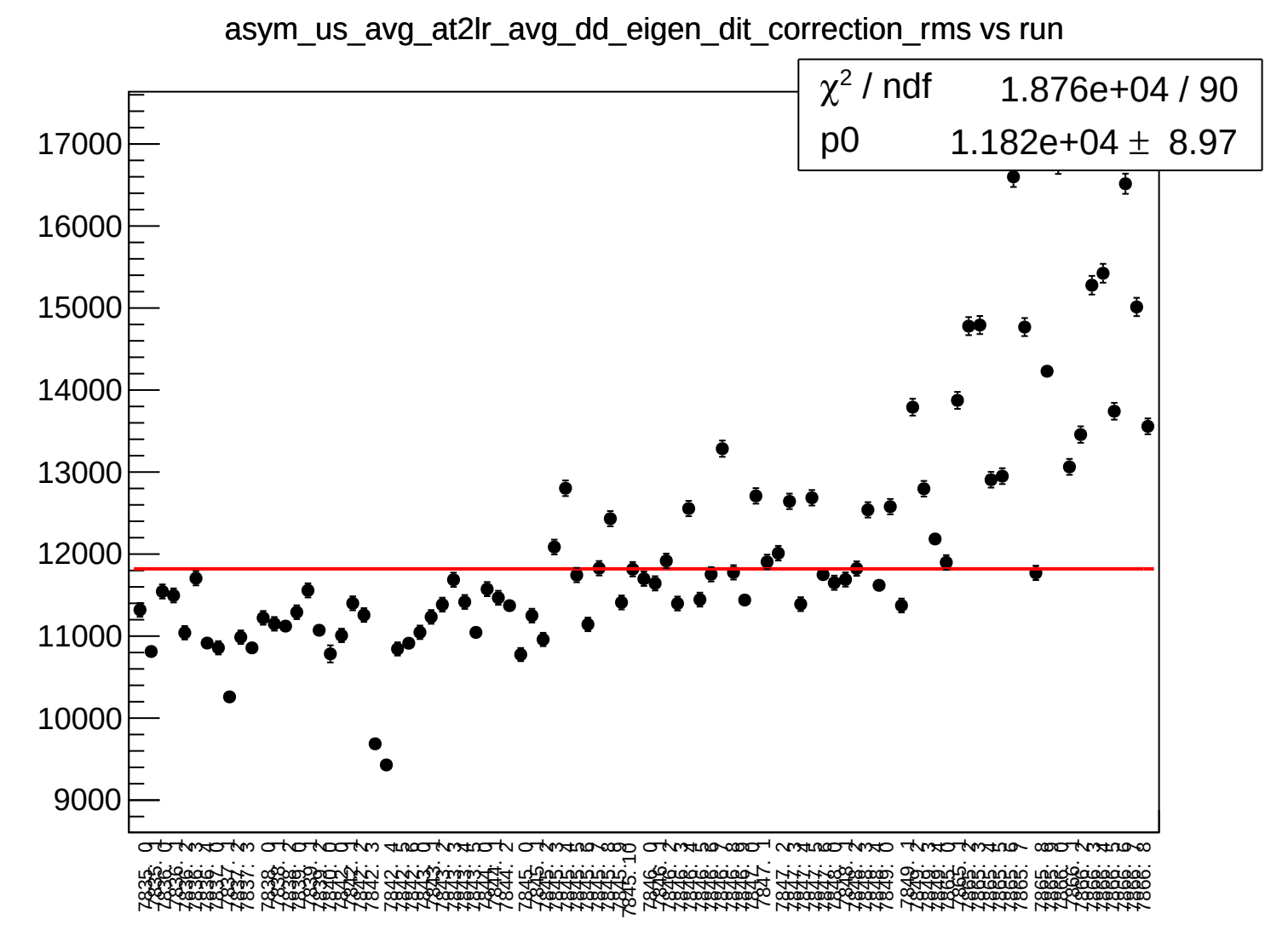

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.876e+04 / 90
p0 1.182e+04 ± 8.97
17000
16000
15000
14000
13000
12000
11000
10000
9000

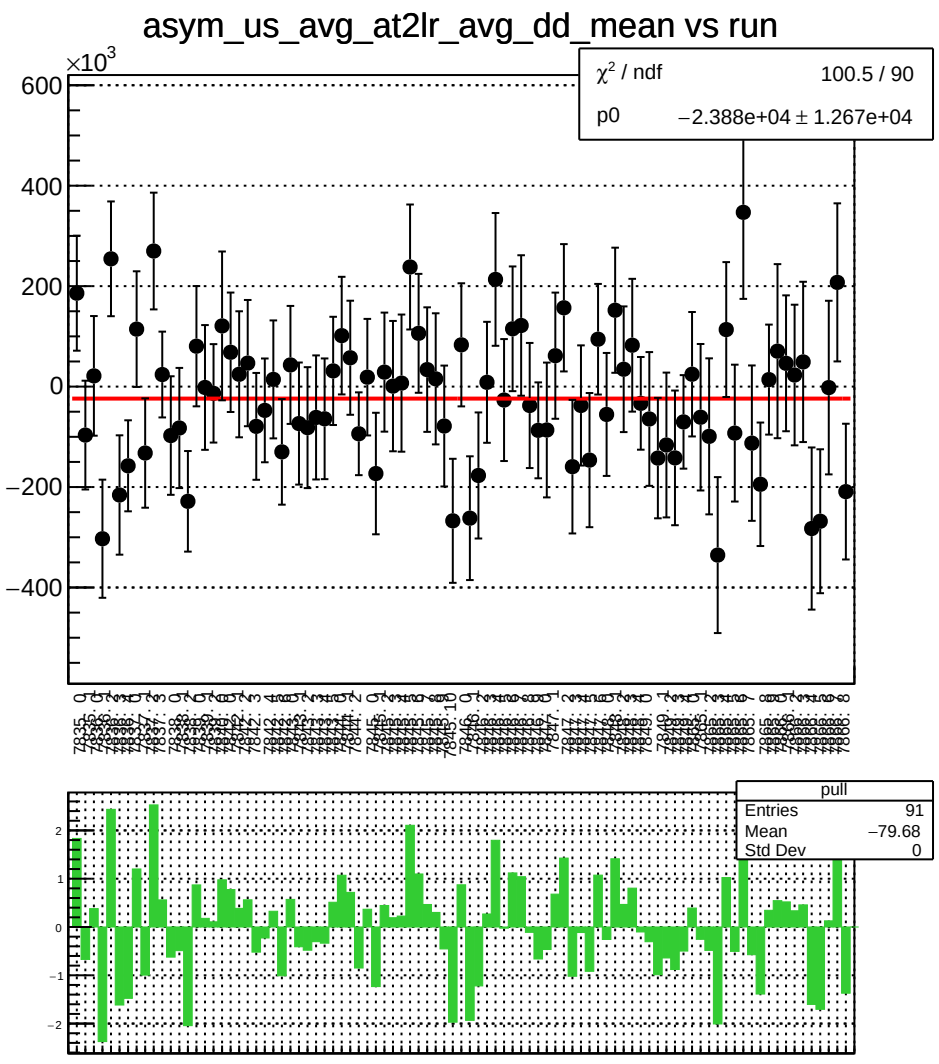

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 92.18 / 90
p0 −1566 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 12.52
Std Dev 53.75
2
1
0
−1
−2

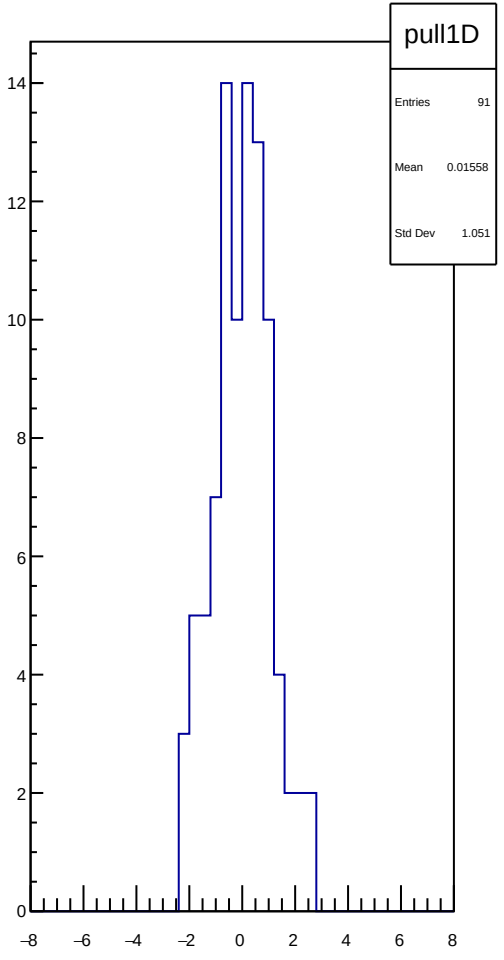

pull1D
Entries 91
Mean −0.00952
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

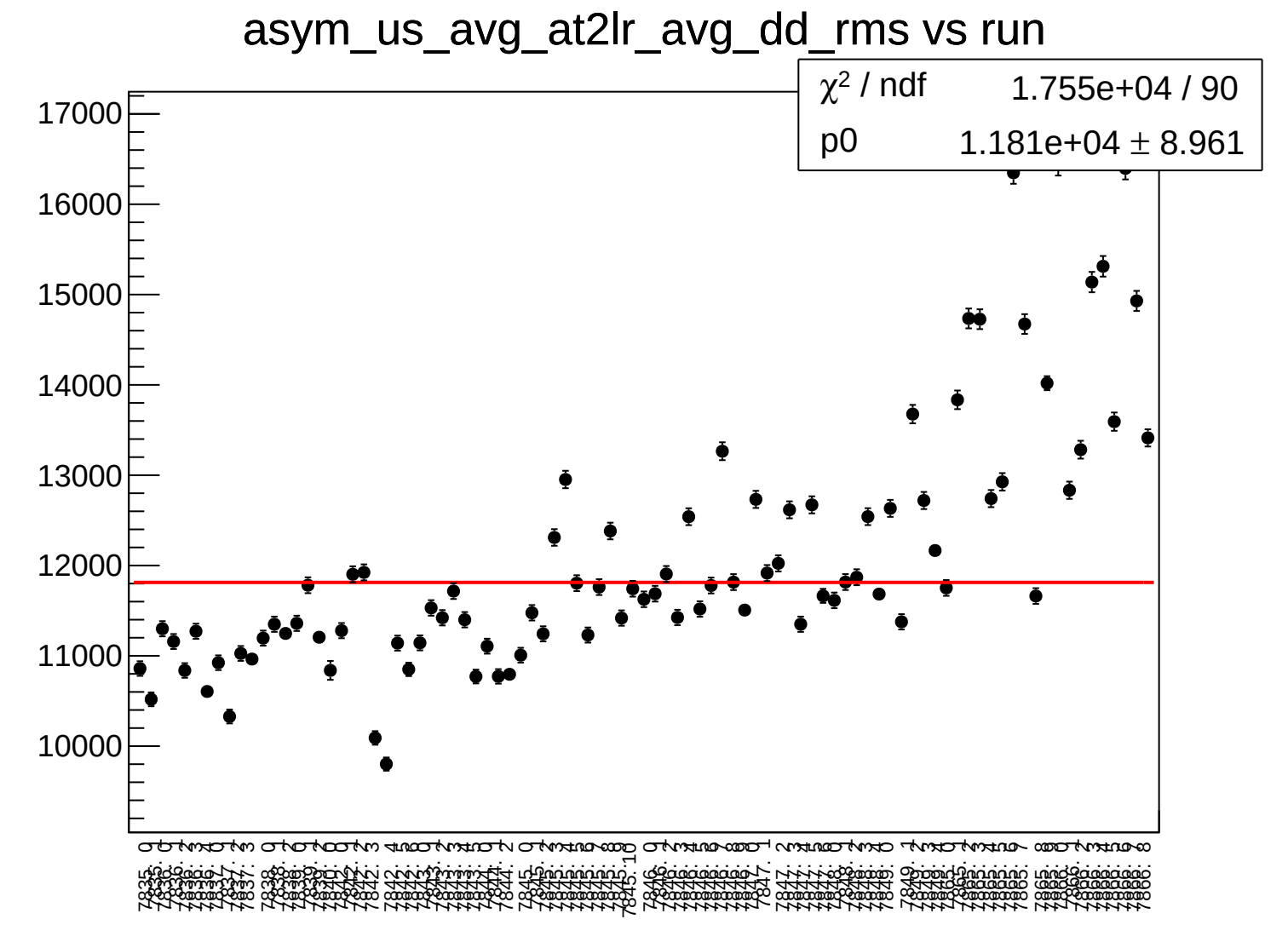

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 920.7 / 90
p0 1757 ± 1.326
1950
1900
1850
1800
1750
1700
1650

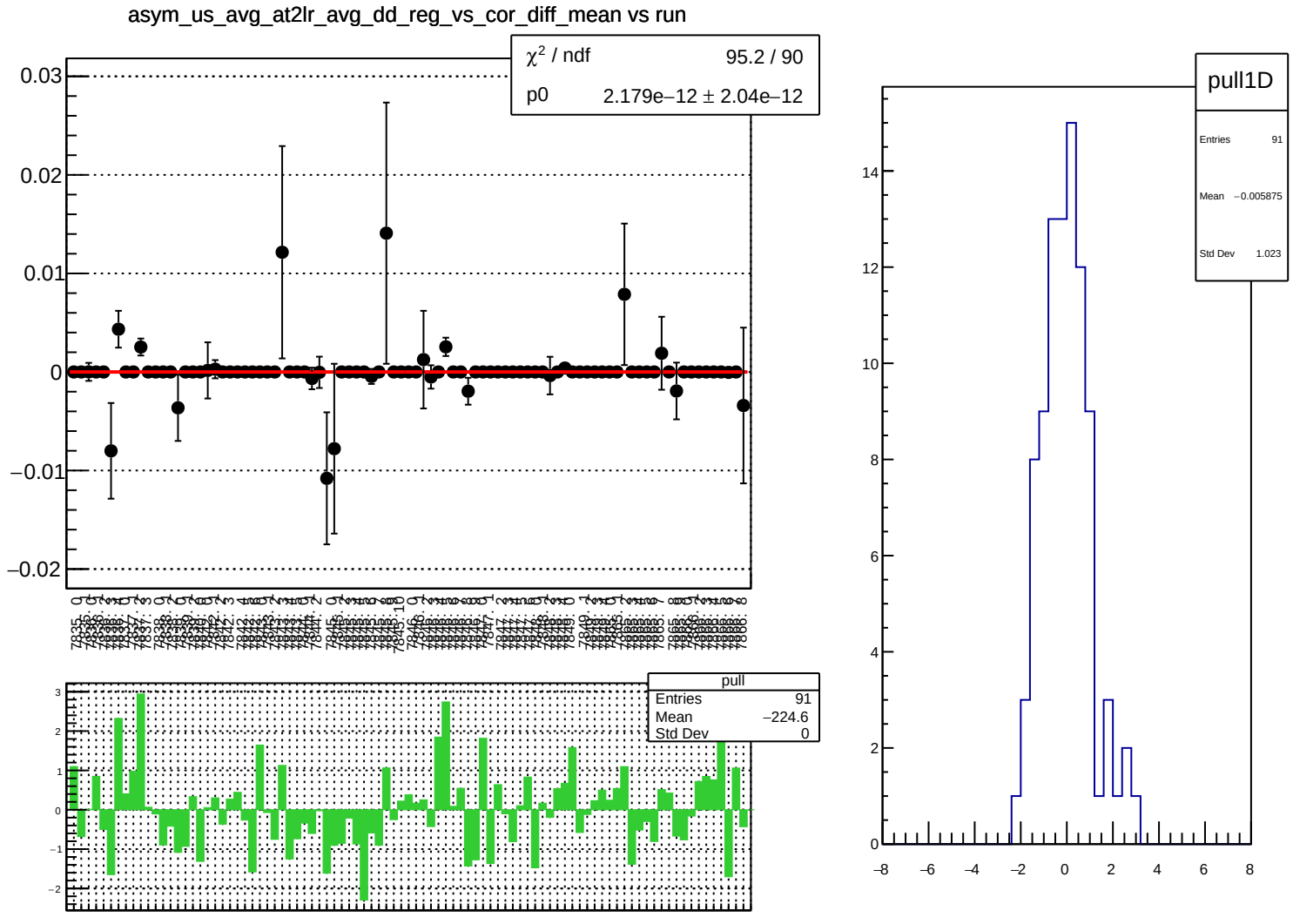

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.1 / 90
p0 2.182e+04 ± 1.269e+04
pull
Entries 91
Mean −98.64
Std Dev 0
pull1D
Entries 91
Mean −0.0144
Std Dev 1.064

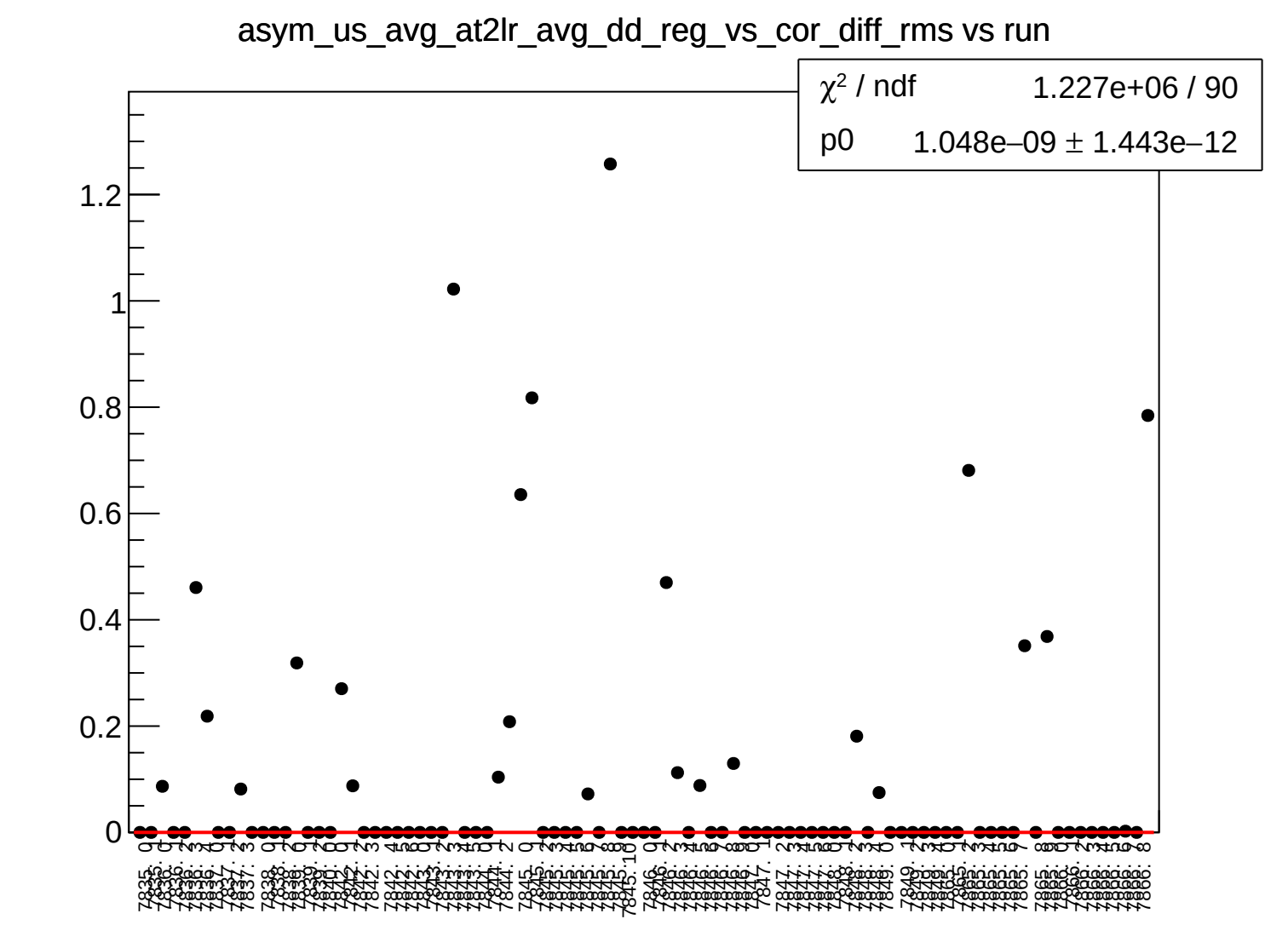

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.876e+04 / 90
p0 1.182e+04 ± 8.97
17000
16000
15000
14000
13000
12000
11000
10000
9000

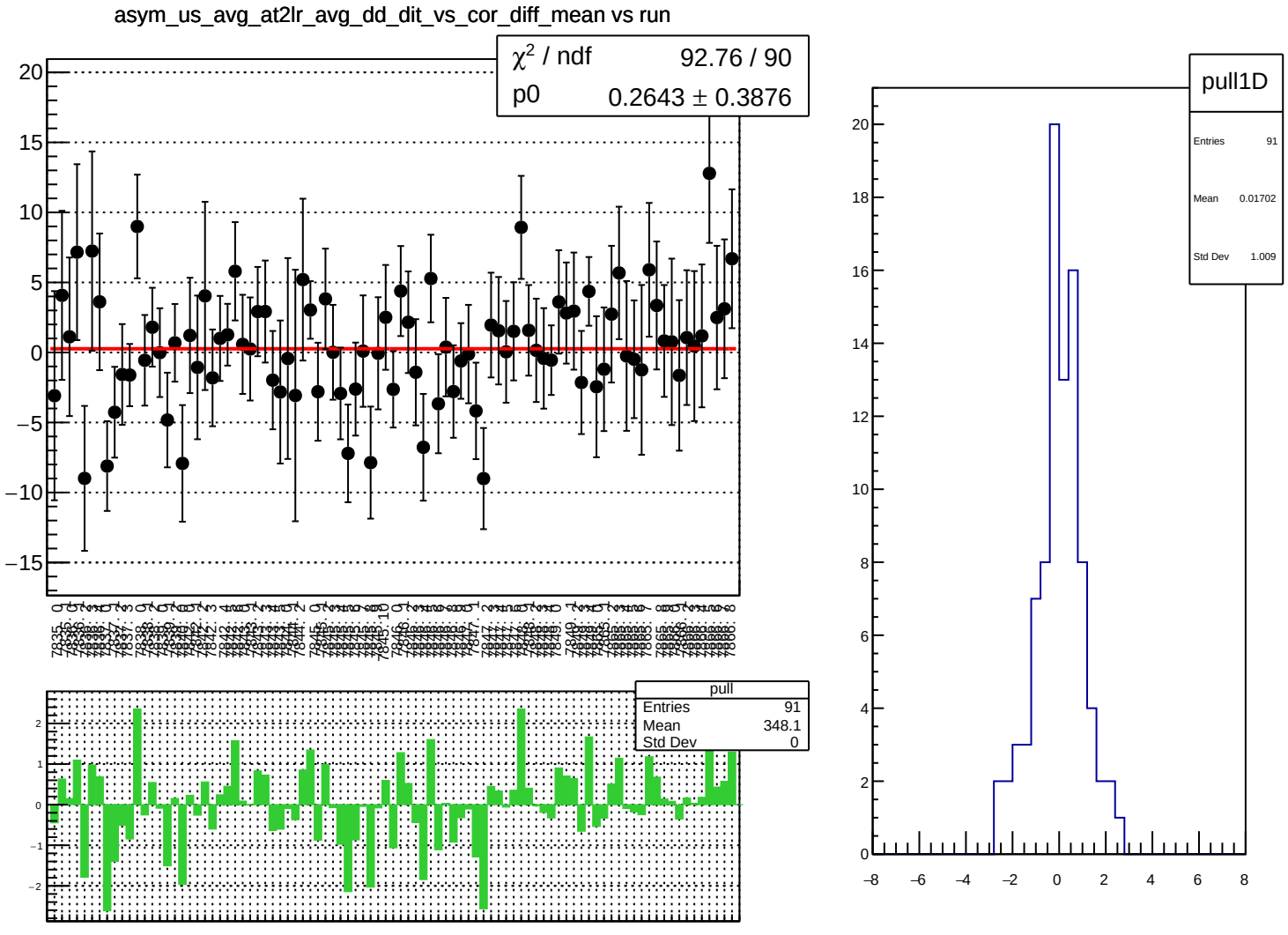

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 100.5 / 90
p0 −2.388e+04 ± 1.267e+04
pull
Entries 91
Mean −79.68
Std Dev 0
2
1
0
−1
−2

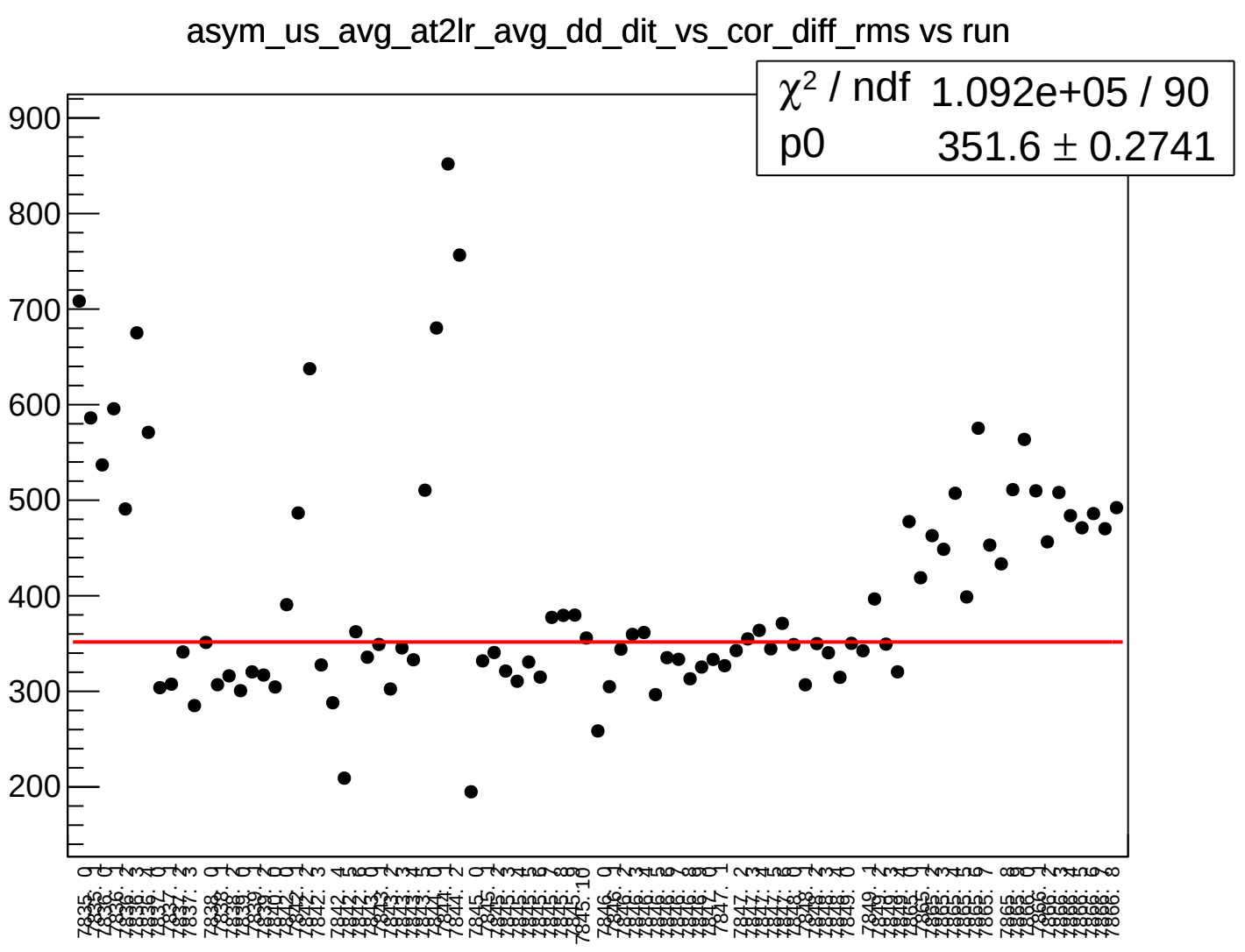

pull1D
Entries 91
Mean 0.01558
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

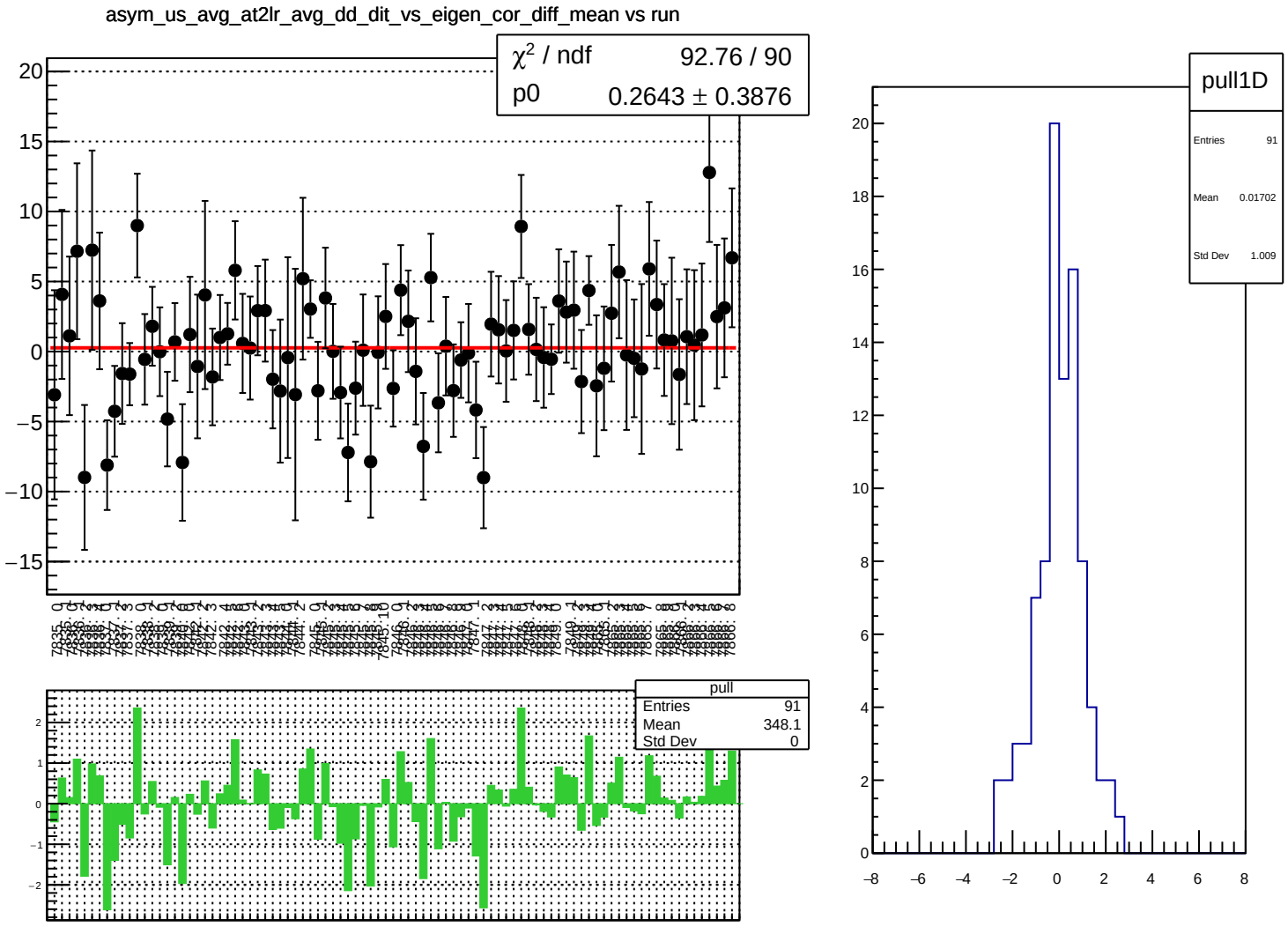

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.755e+04 / 90
p0 1.181e+04 ± 8.961
17000
16000
15000
14000
13000
12000
11000
10000

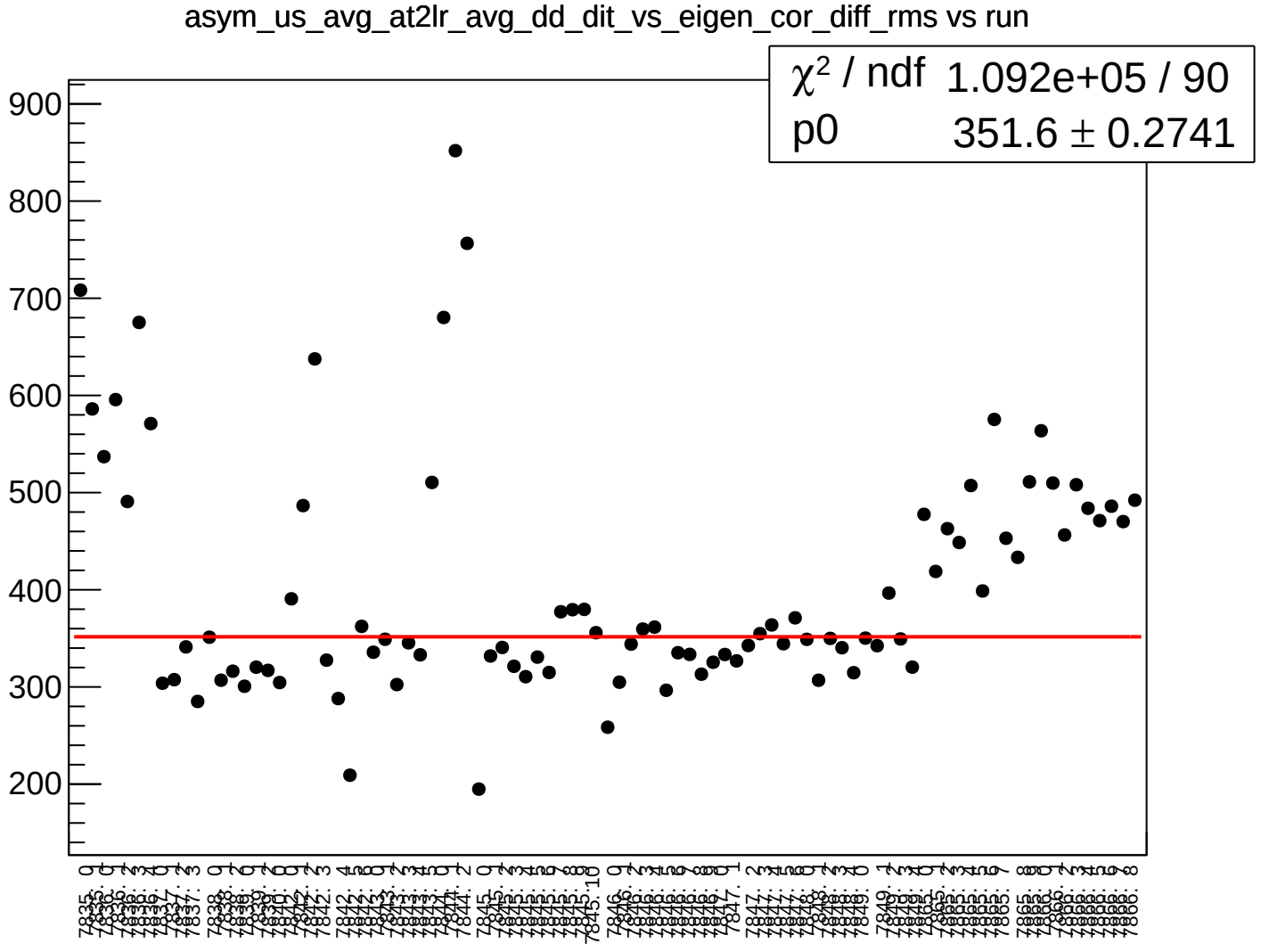

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.2 / 90
p0 2.179e−12 ± 2.04e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean −224.6
Std Dev 0
pull1D
Entries 91
Mean −0.005875
Std Dev 1.023

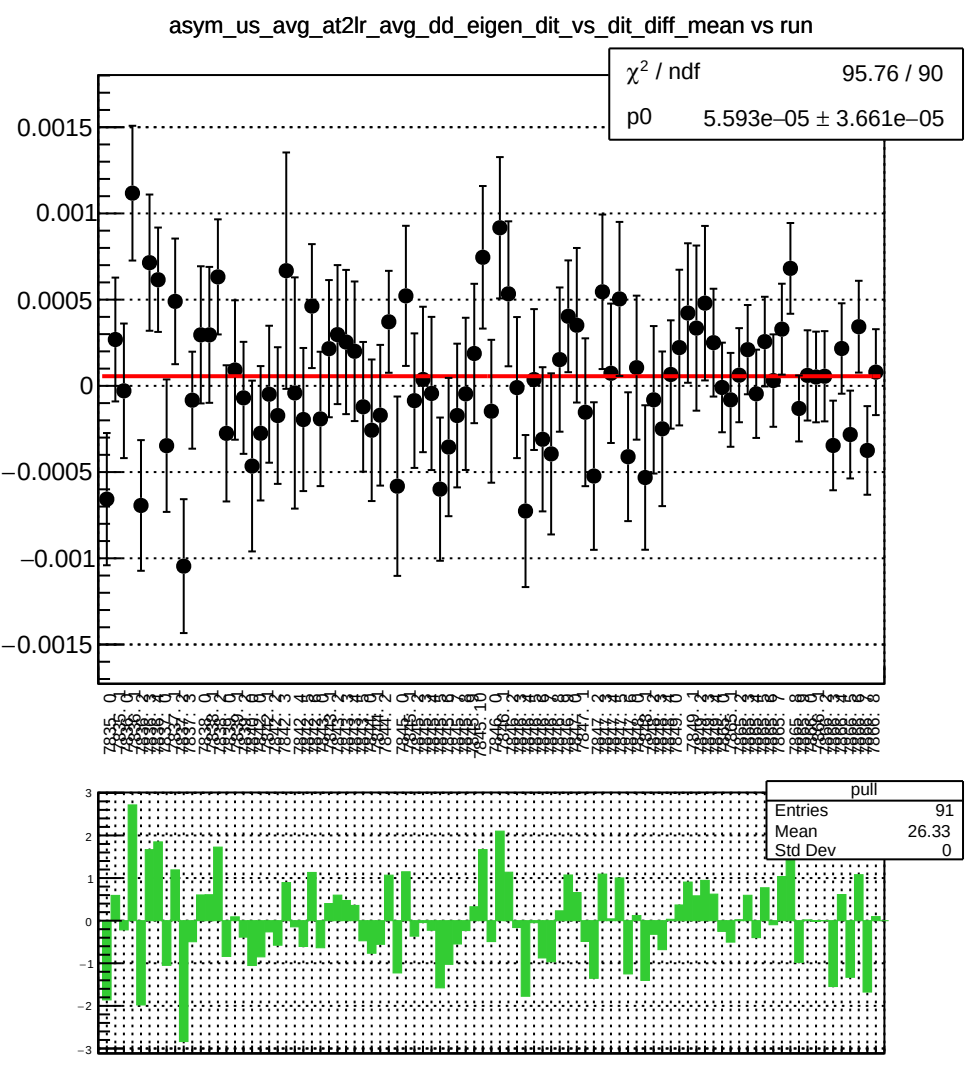

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.227e+06 / 90
p0 1.048e−09 ± 1.443e−12
1.2
1
0.8
0.6
0.4
0.2
0

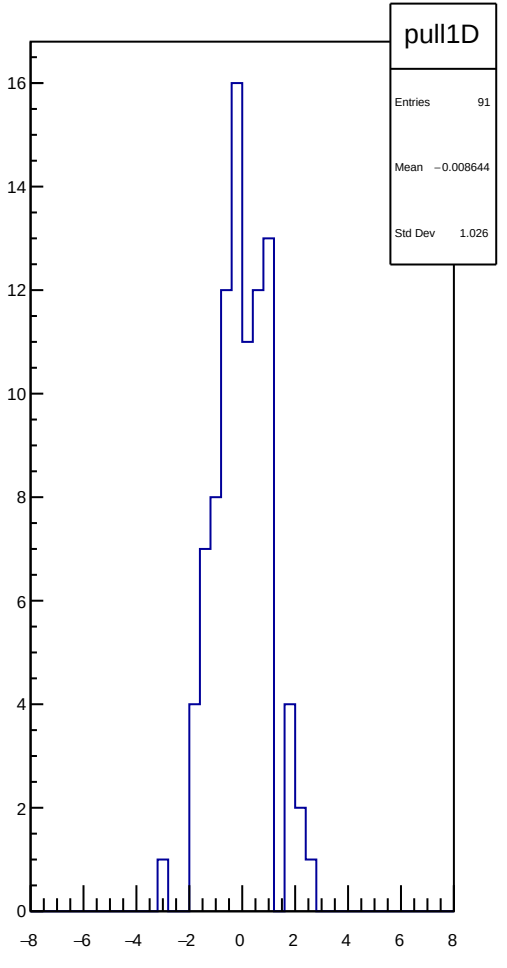

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.76 / 90
p0 0.2643 ± 0.3876
pull
Entries 91
Mean 348.1
Std Dev 0
pull1D
Entries 91
Mean 0.01702
Std Dev 1.009

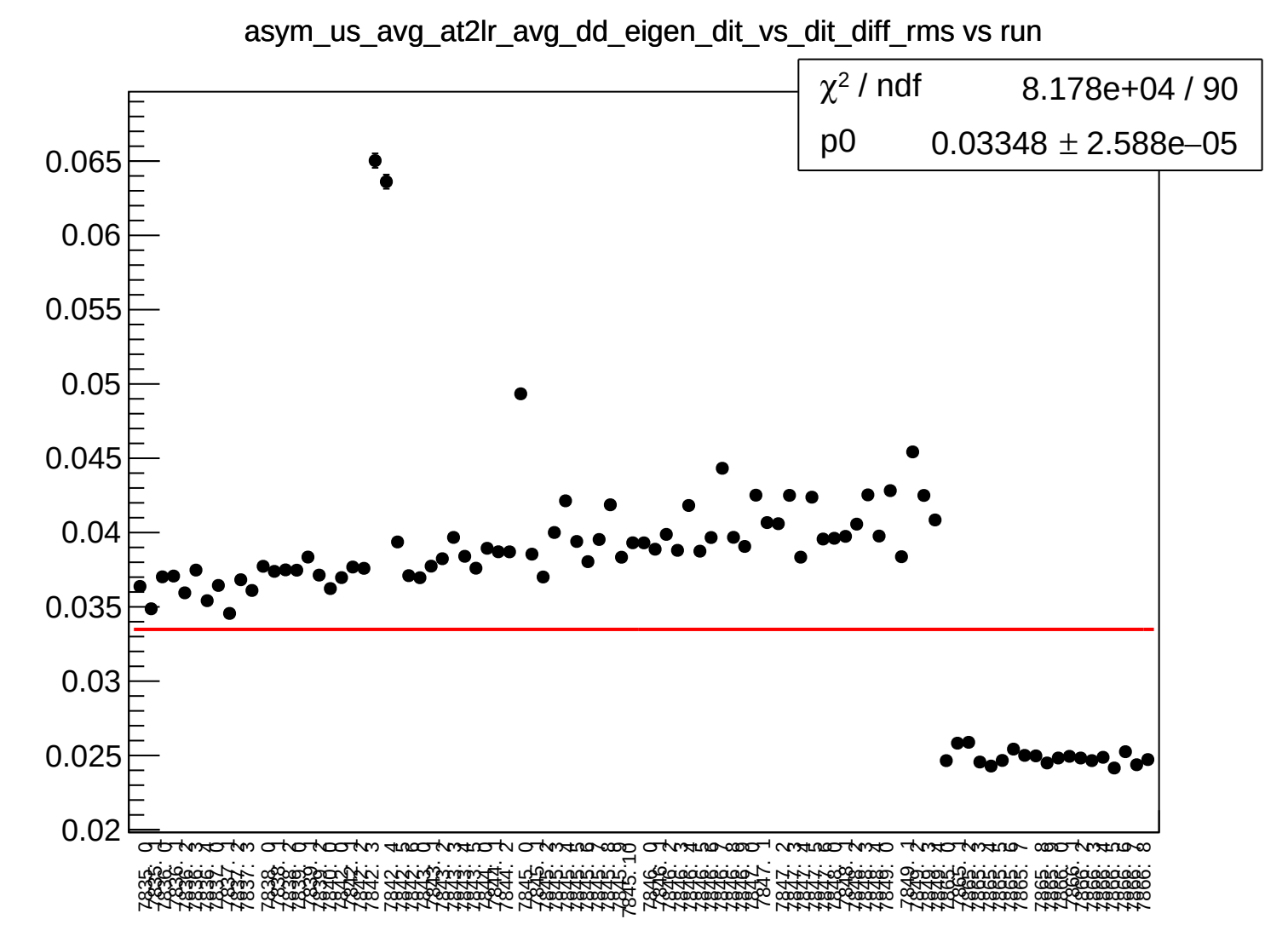

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.092e+05 / 90
p0 351.6 ± 0.2741
900
800
700
600
500
400
300
200

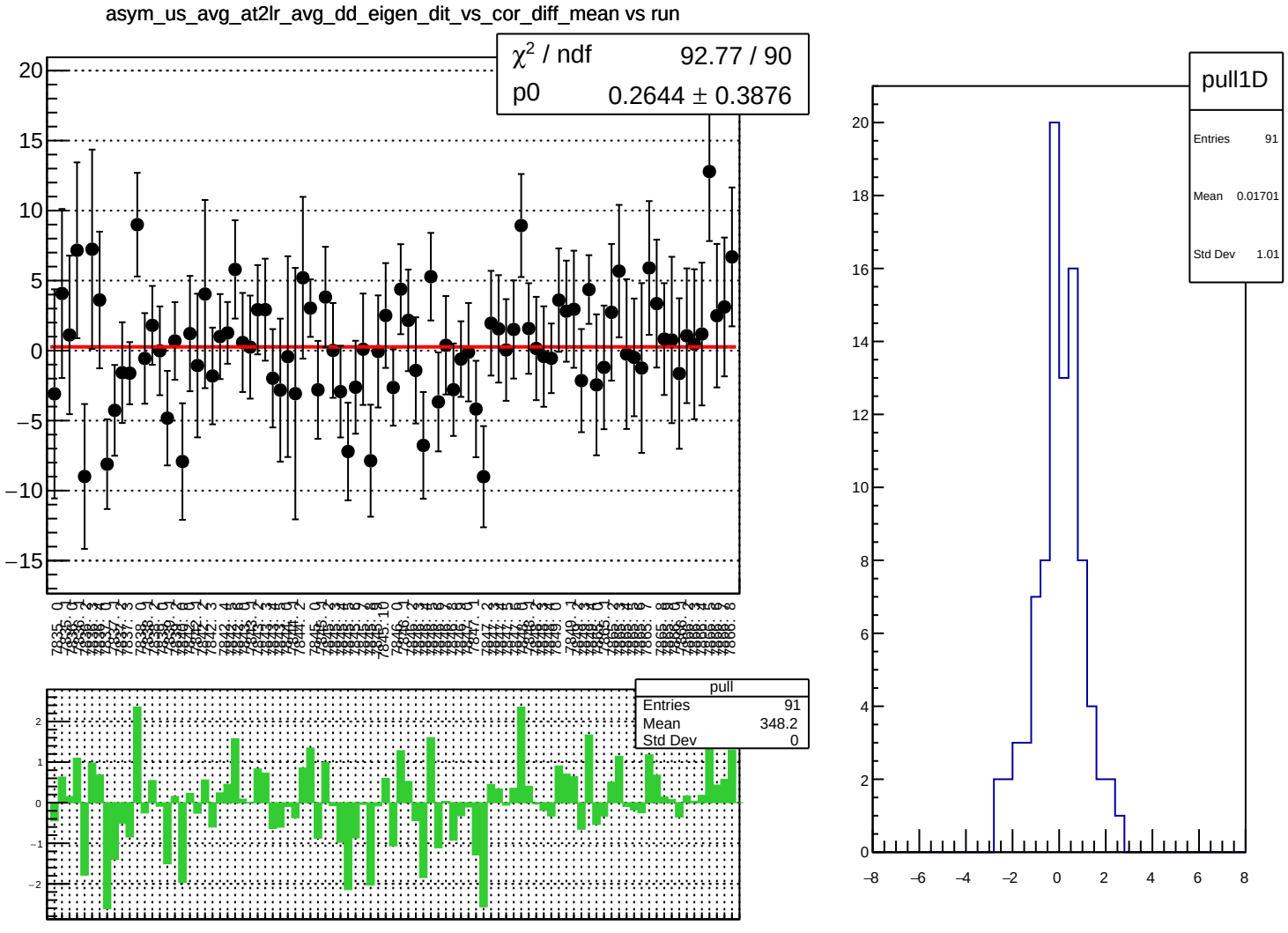

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.76 / 90
p0 0.2643 ± 0.3876
pull
Entries 91
Mean 348.1
Std Dev 0
pull1D
Entries 91
Mean 0.01702
Std Dev 1.009

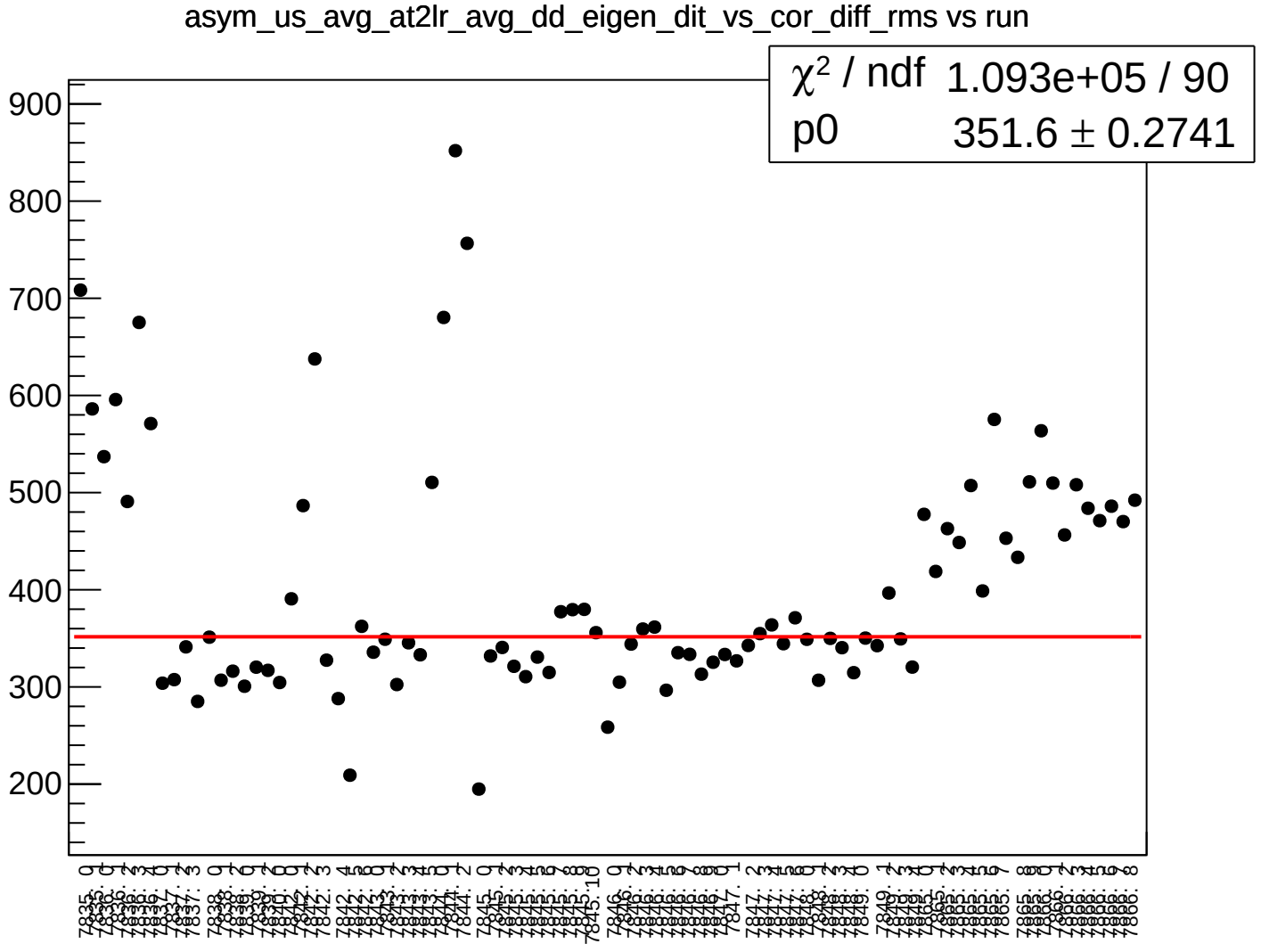

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.092e+05 / 90
p0 351.6 ± 0.2741
900
800
700
600
500
400
300
200

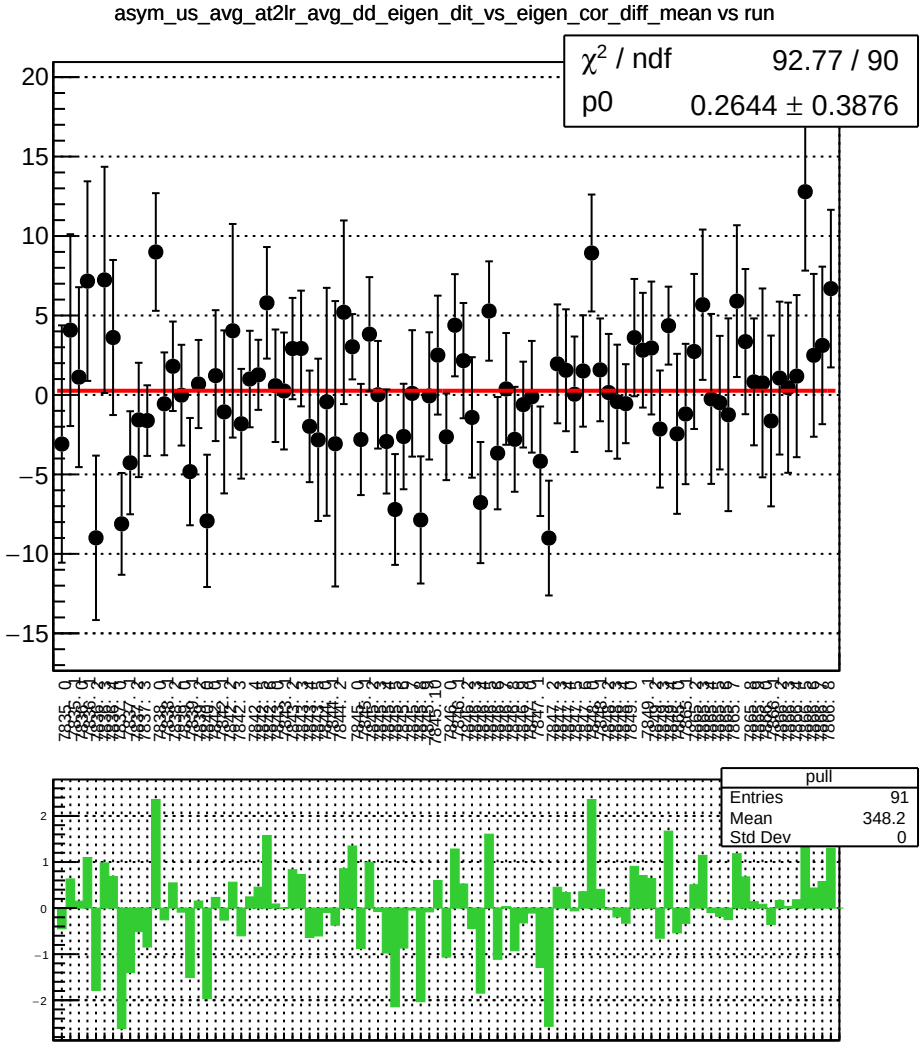

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.76 / 90
p0 5.593e−05 ± 3.661e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 26.33
Std Dev 0
3
2
1
0
−1
−2
−3

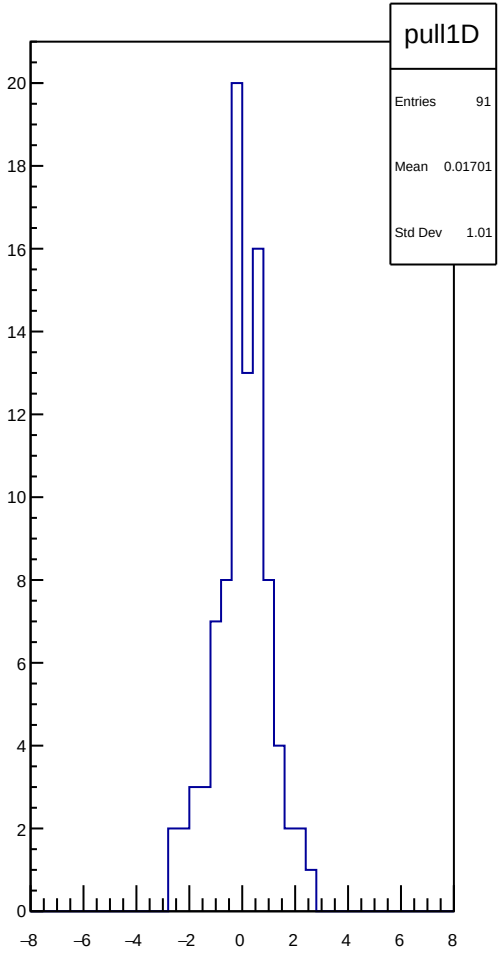

pull1D
Entries 91
Mean −0.008644
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

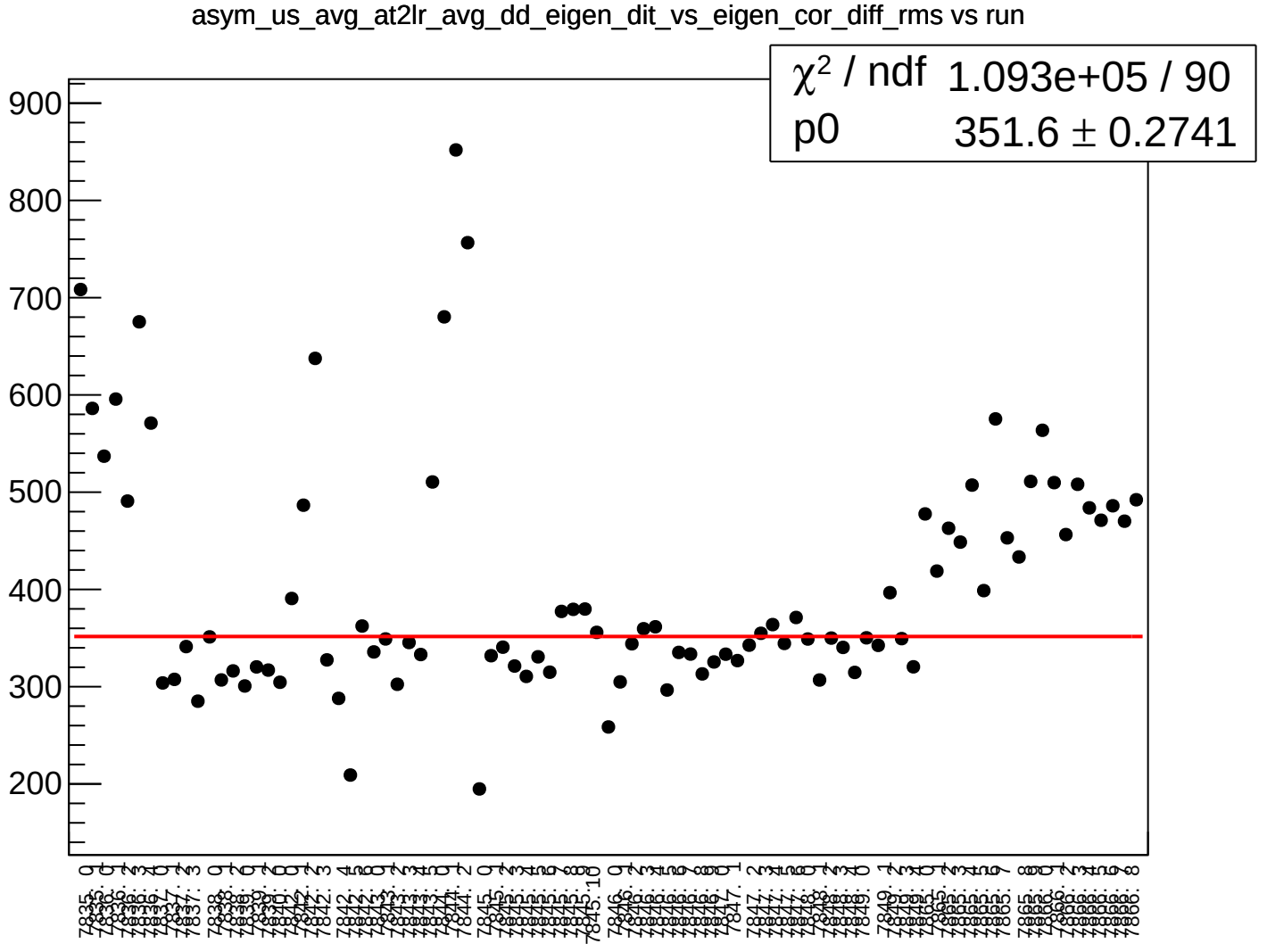

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.178e+04 / 90
p0 0.03348 ± 2.588e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

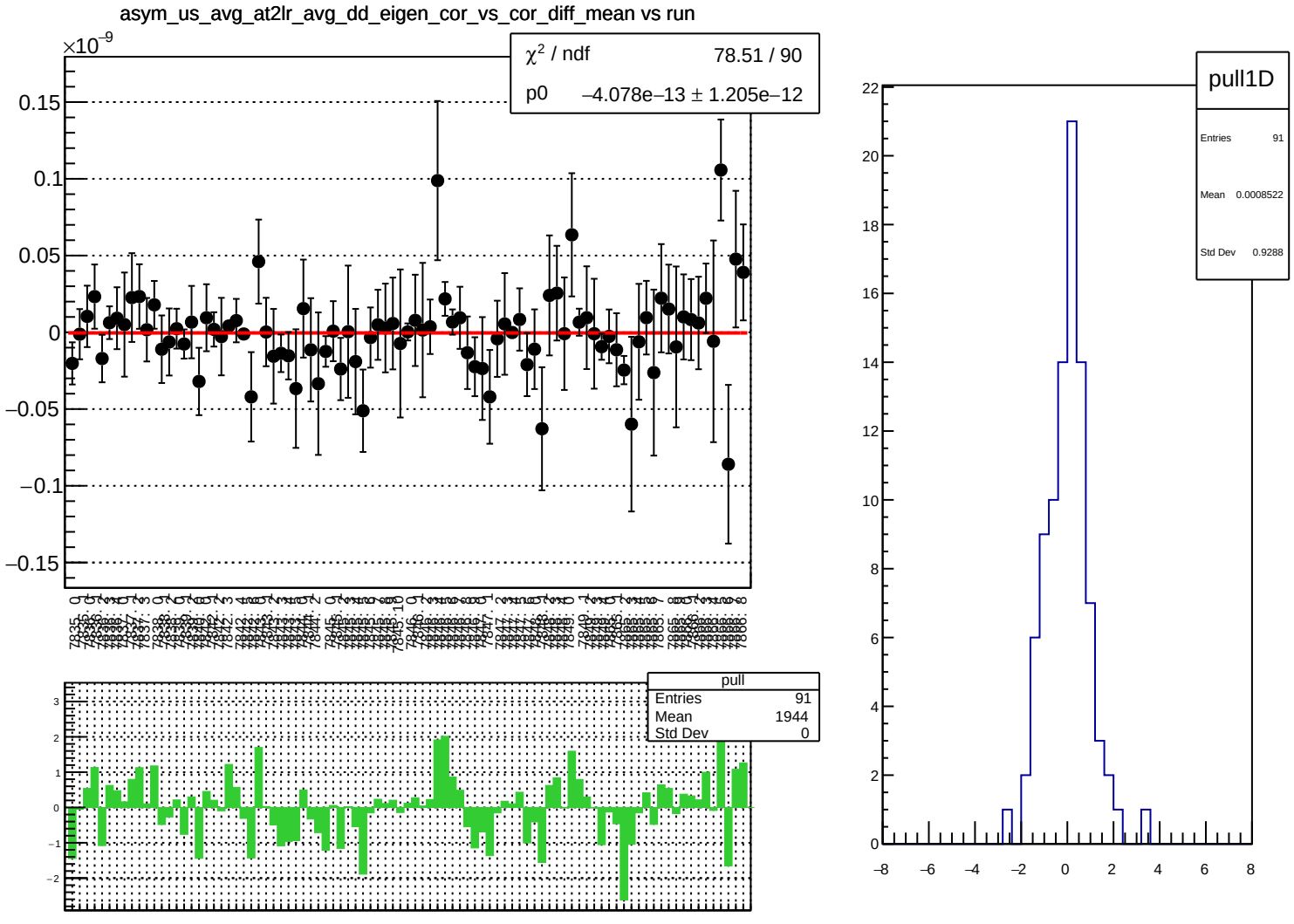

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.77 / 90
p0 0.2644 ± 0.3876
pull
Entries 91
Mean 348.2
Std Dev 0
pull1D
Entries 91
Mean 0.01701
Std Dev 1.01

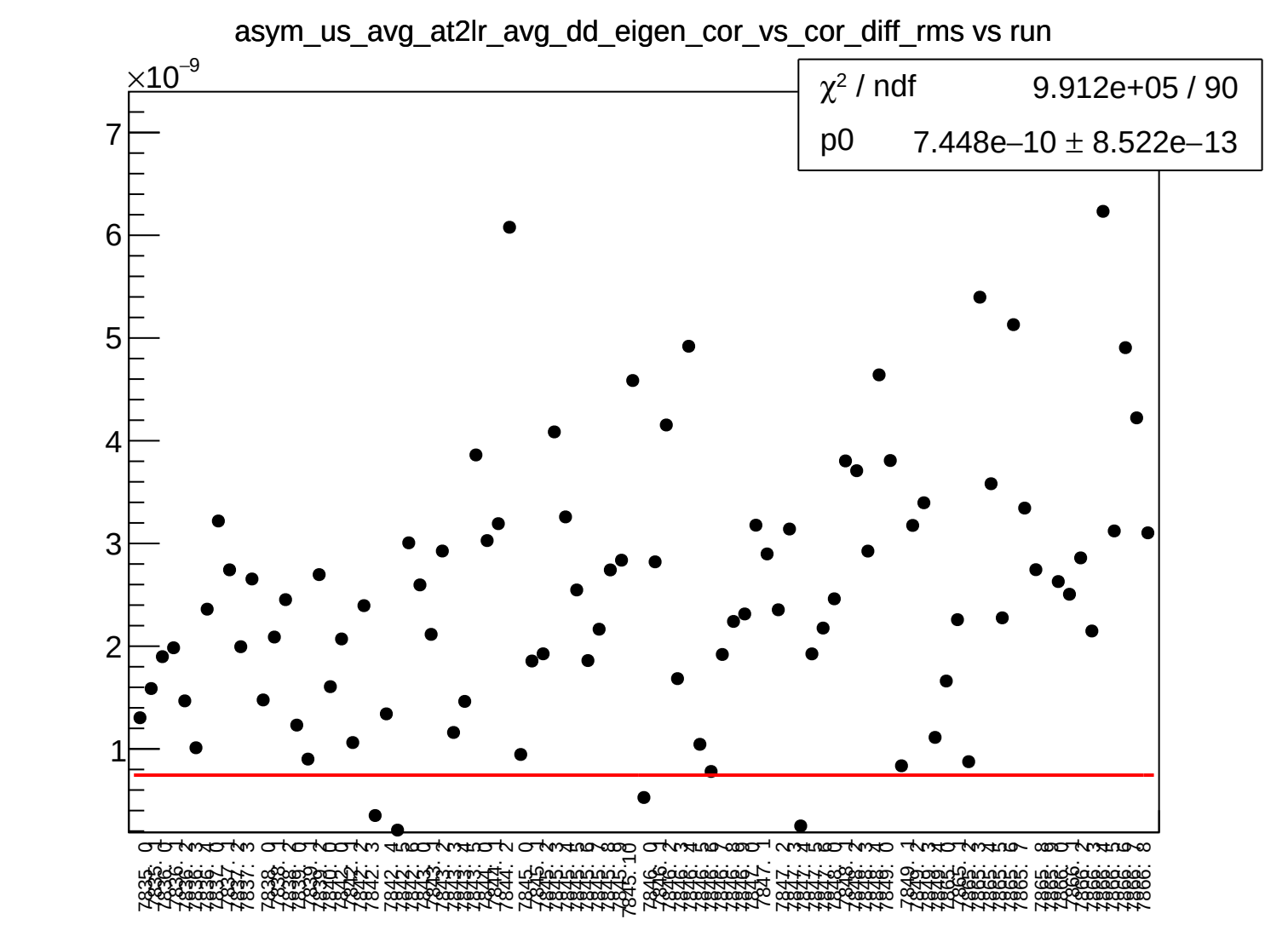

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 90
p0 351.6 ± 0.2741
900
800
700
600
500
400
300
200

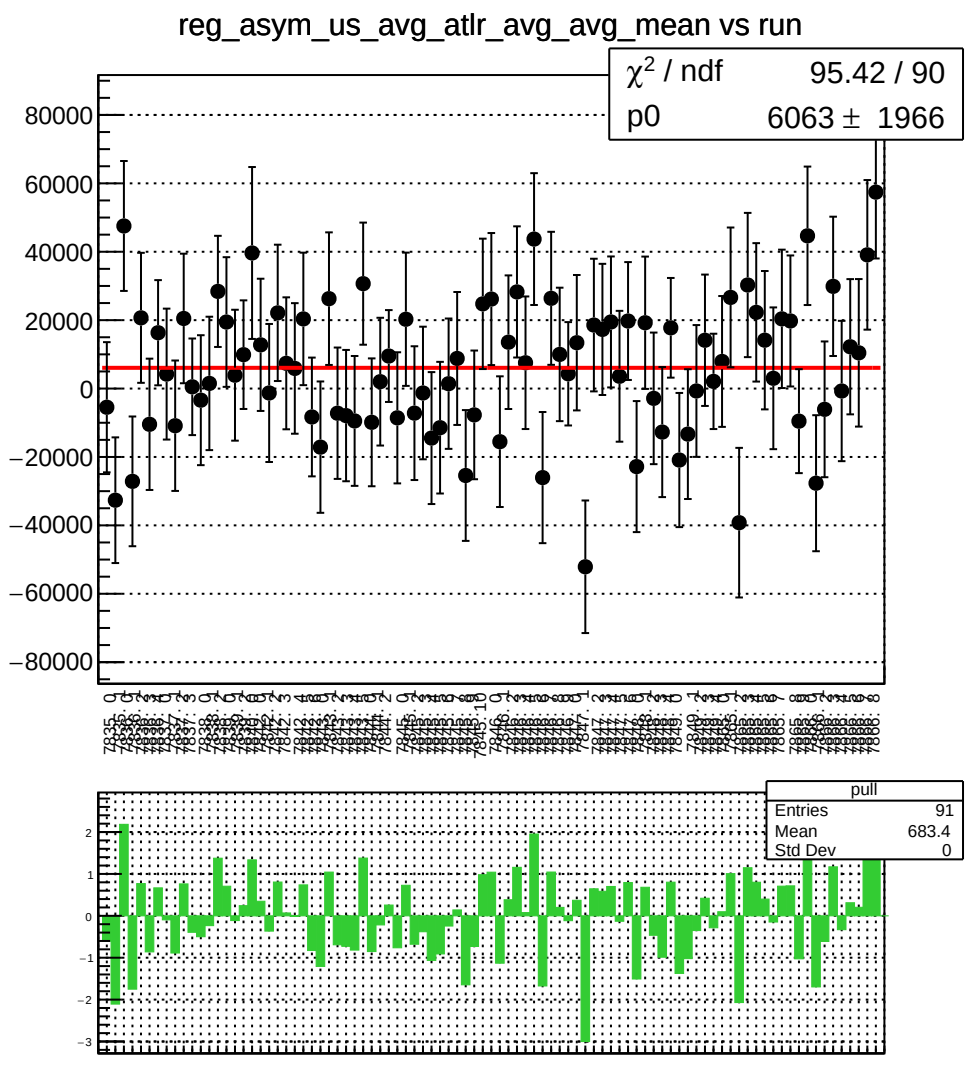

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.77 / 90
p0 0.2644 ± 0.3876
pull
Entries 91
Mean 348.2
Std Dev 0

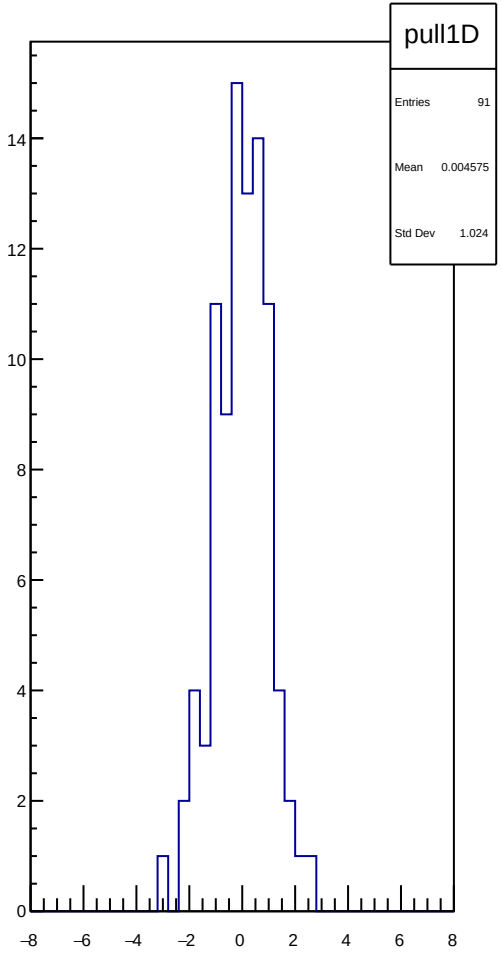

pull1D
Entries 91
Mean 0.01701
Std Dev 1.01

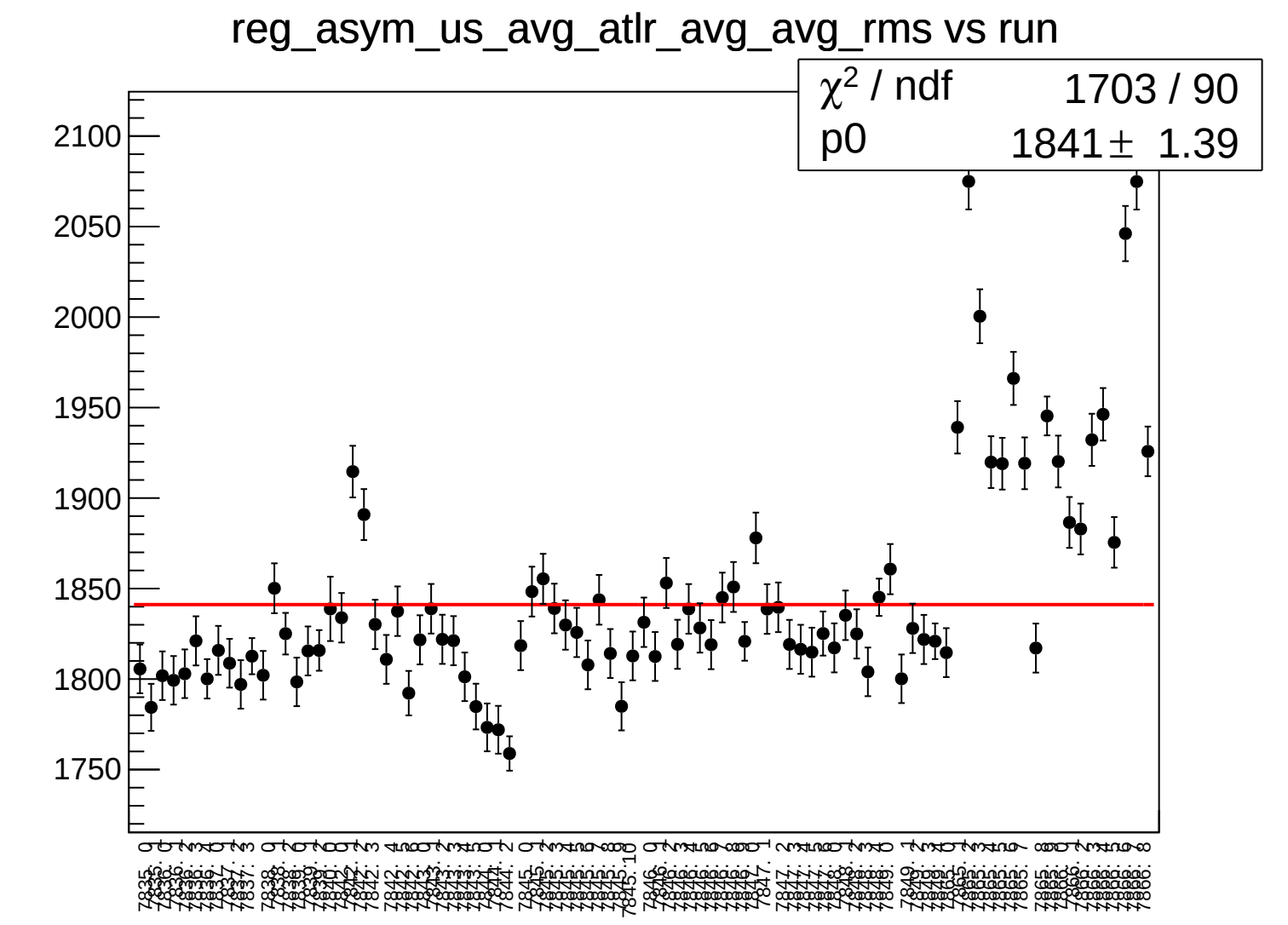

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 90
p0 351.6 ± 0.2741
900
800
700
600
500
400
300
200

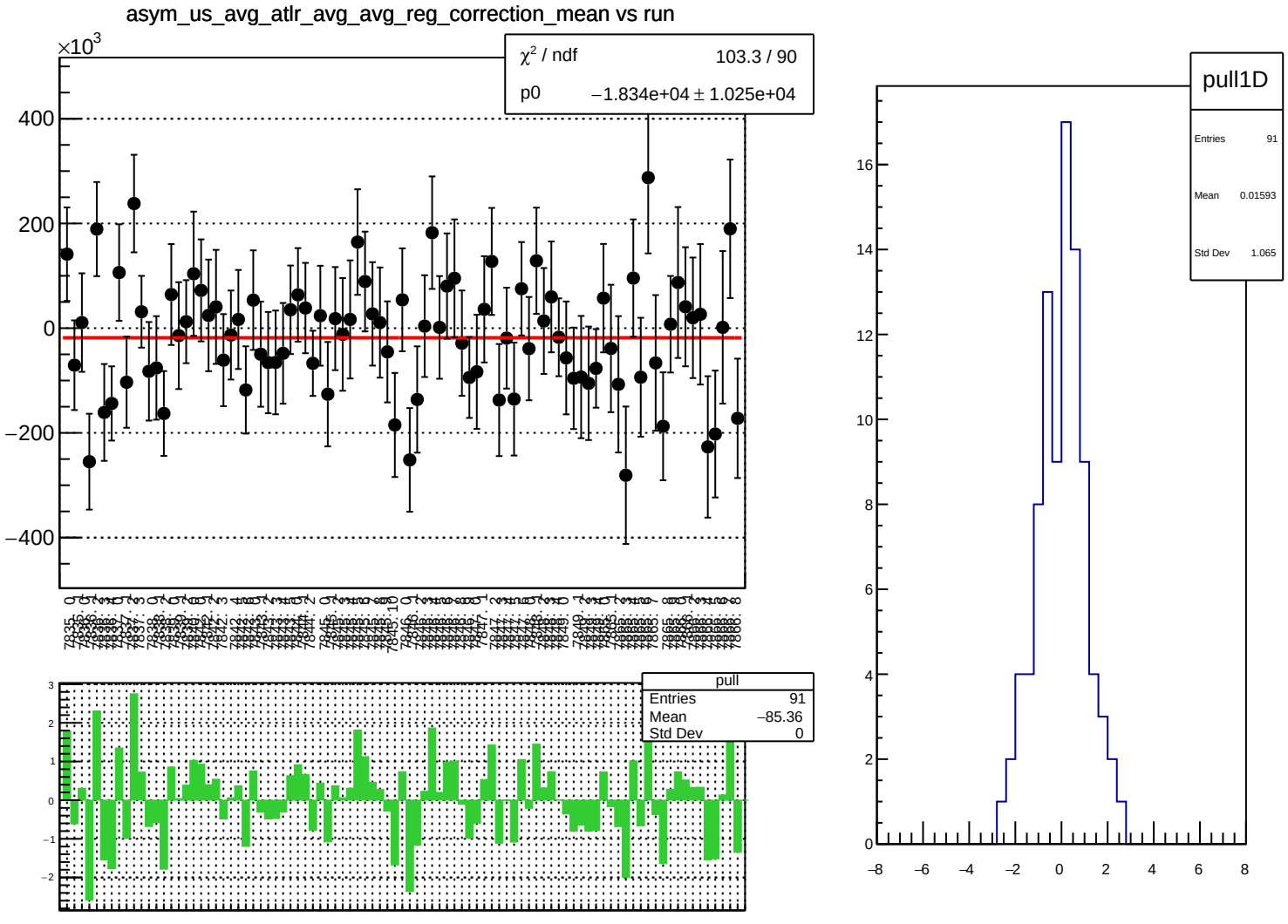

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 78.51 / 90
p0 −4.078e−13 ± 1.205e−12
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 1944
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0008522
Std Dev 0.9288
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

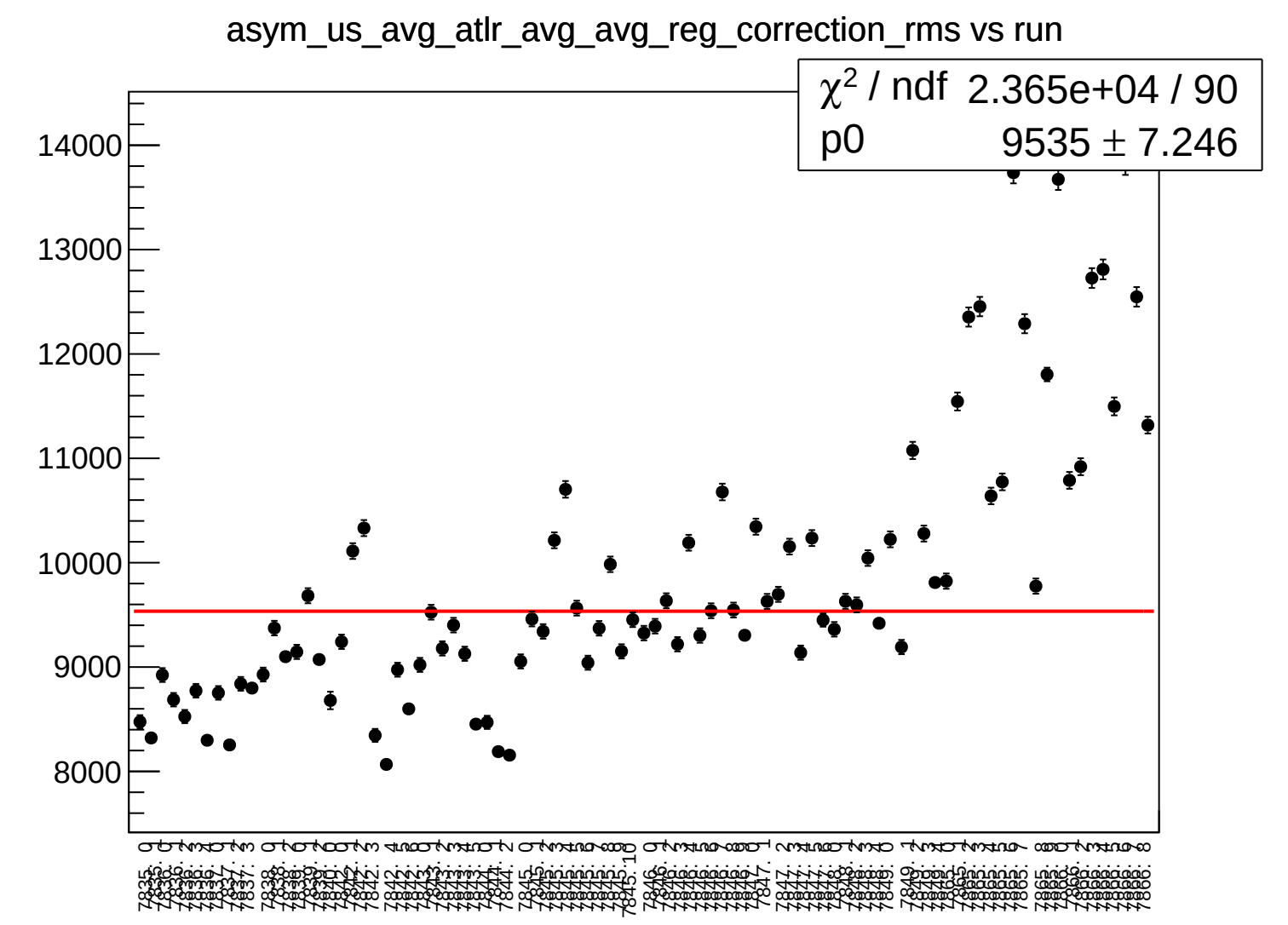

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.912e+05 / 90
p0 7.448e−10 ± 8.522e−13
7
6
5
4
3
2
1

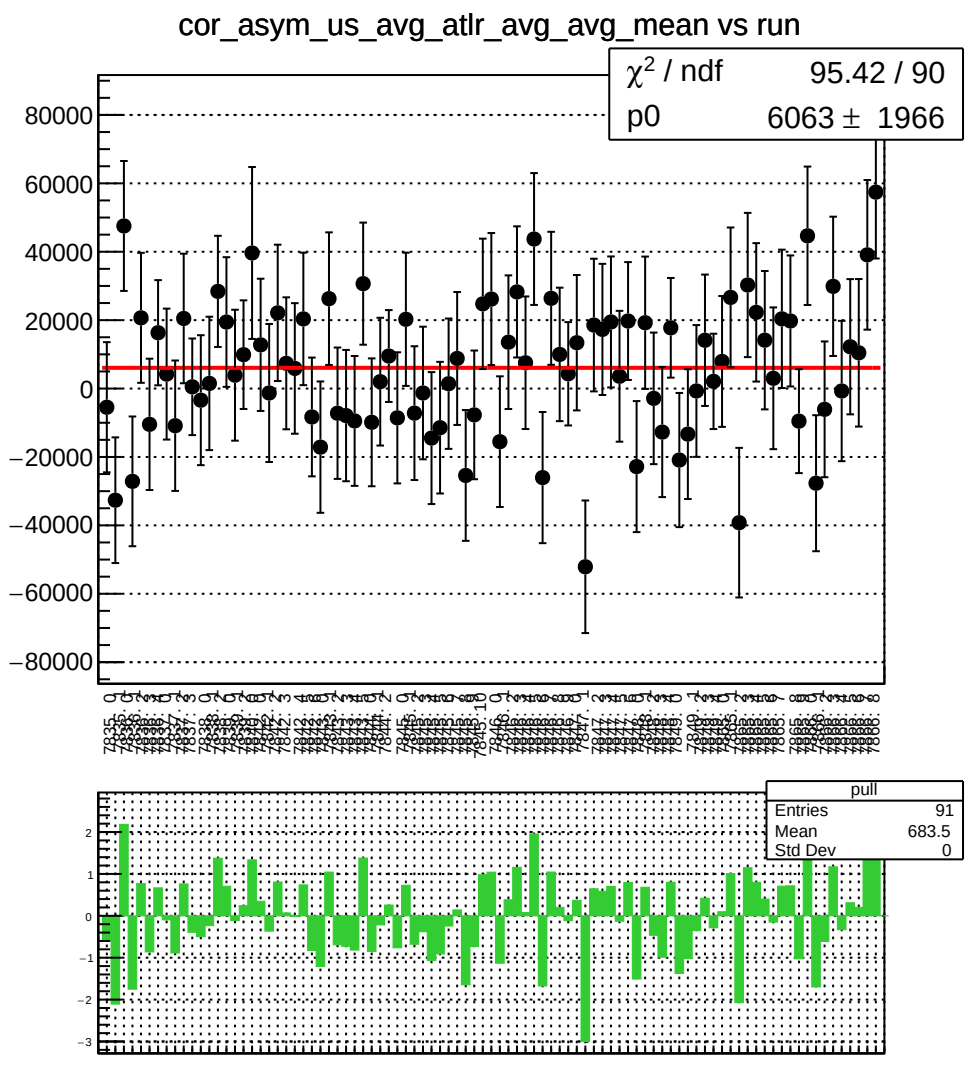

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.42 / 90
p0 6063 ± 1966
pull
Entries 91
Mean 683.4
Std Dev 0

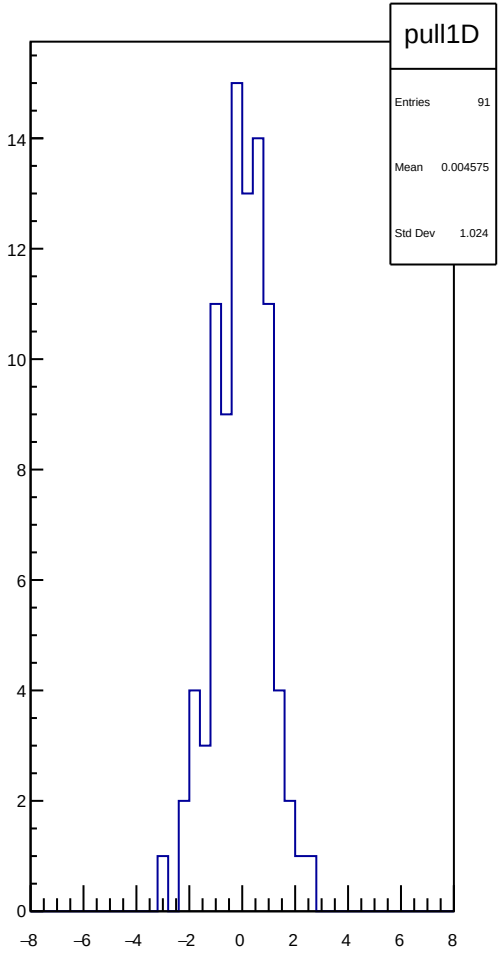

pull1D
Entries 91
Mean 0.004575
Std Dev 1.024

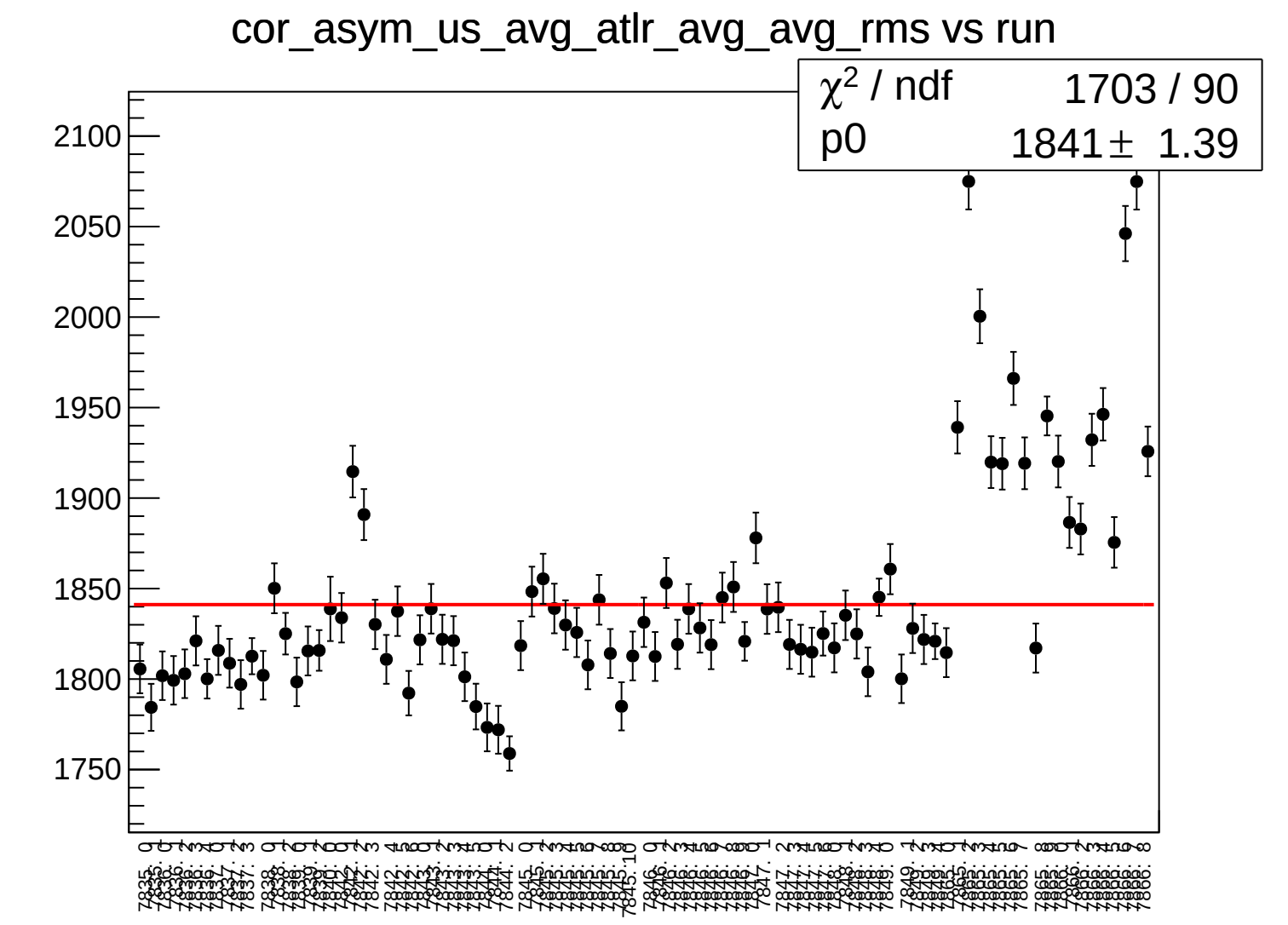

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1703 / 90
p0 1841 ± 1.39
2100
2050
2000
1950
1900
1850
1800
1750

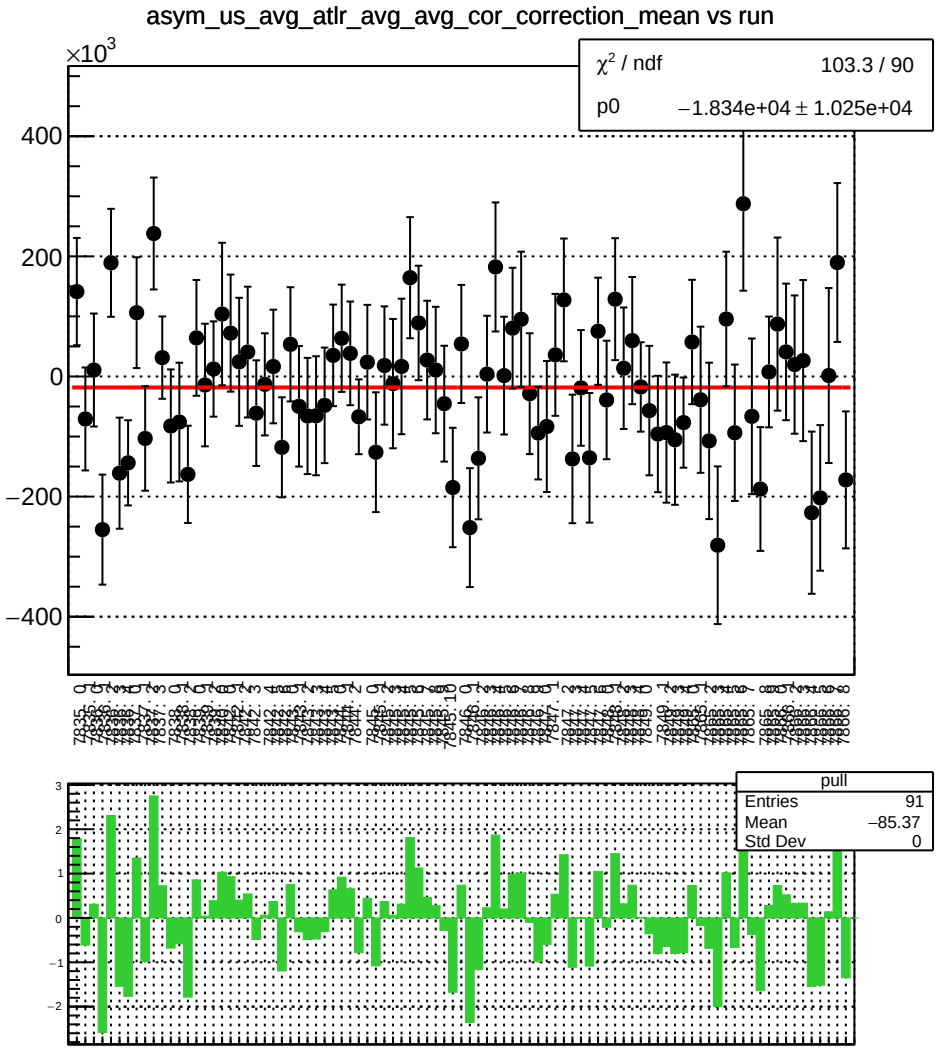

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.3 / 90
p0 −1.834e+04 ± 1.025e+04
400
200
0
−200
−400
pull
Entries 91
Mean −85.36
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01593
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

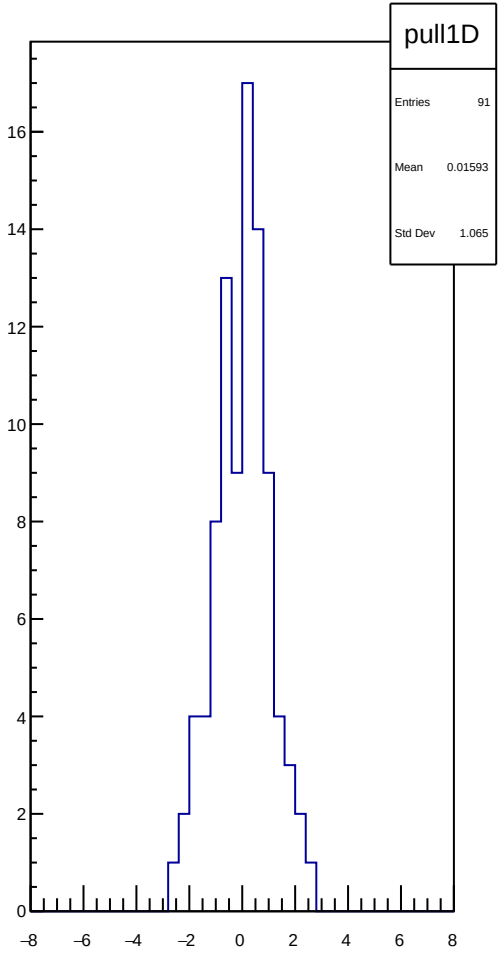

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.365e+04 / 90
p0 9535 ± 7.246
14000
13000
12000
11000
10000
9000
8000

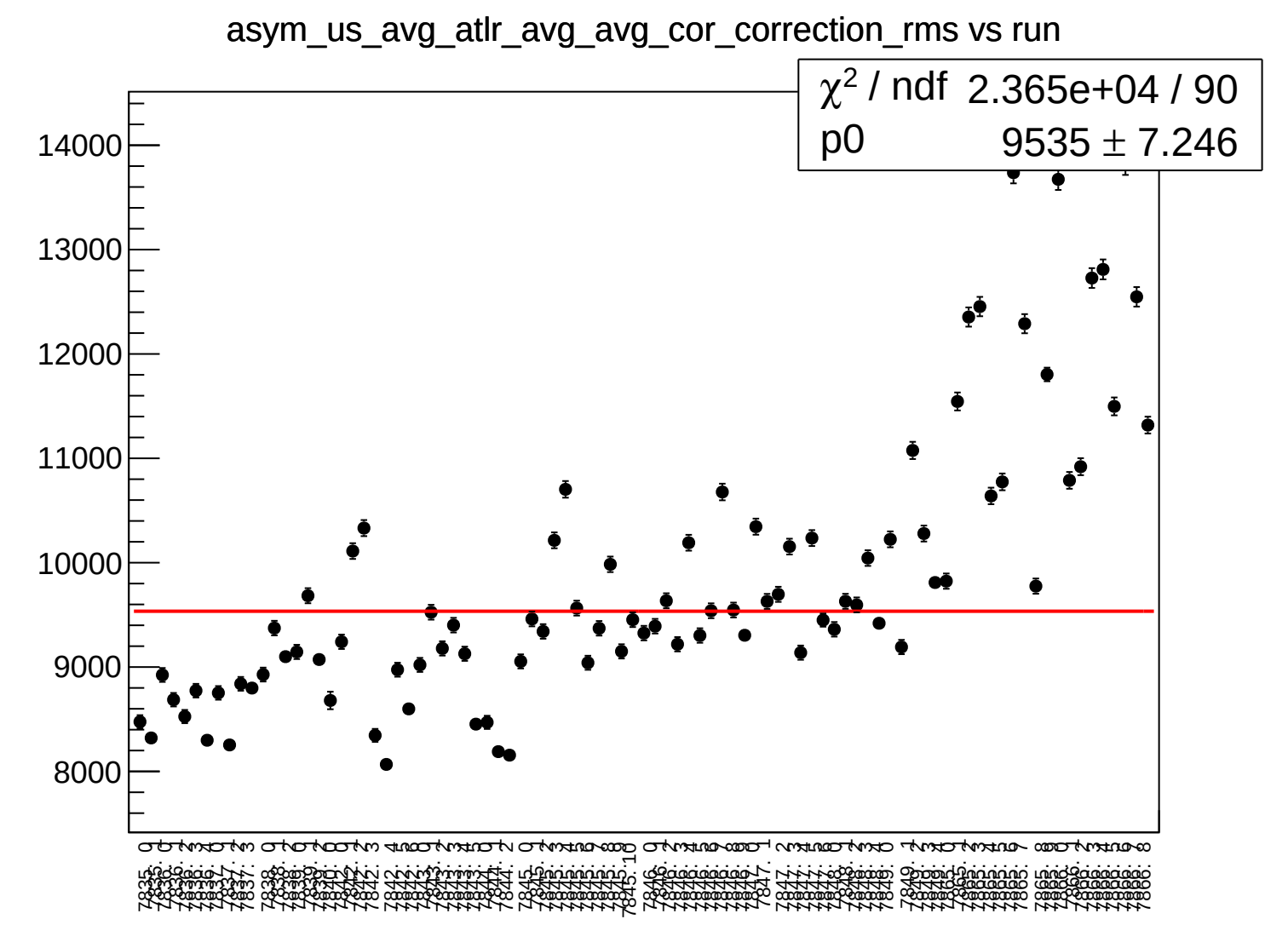

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.42 / 90
p0 6063 ± 1966
pull
Entries 91
Mean 683.5
Std Dev 0

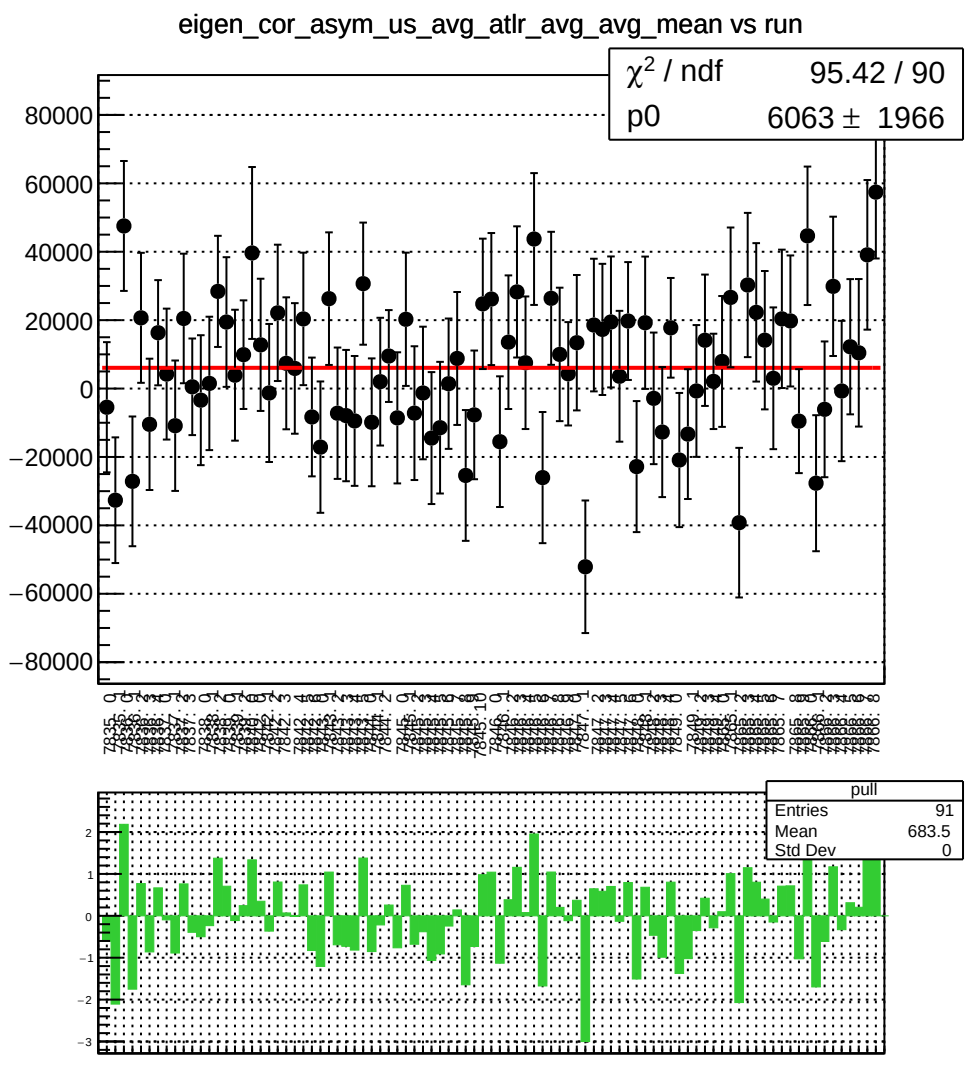

pull1D
Entries 91
Mean 0.004575
Std Dev 1.024

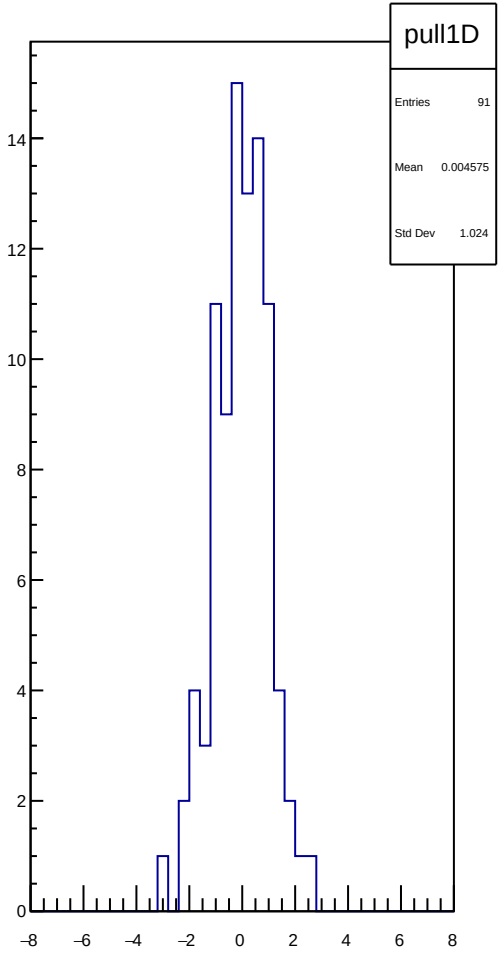

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1703 / 90
p0 1841 ± 1.39
2100
2050
2000
1950
1900
1850
1800
1750

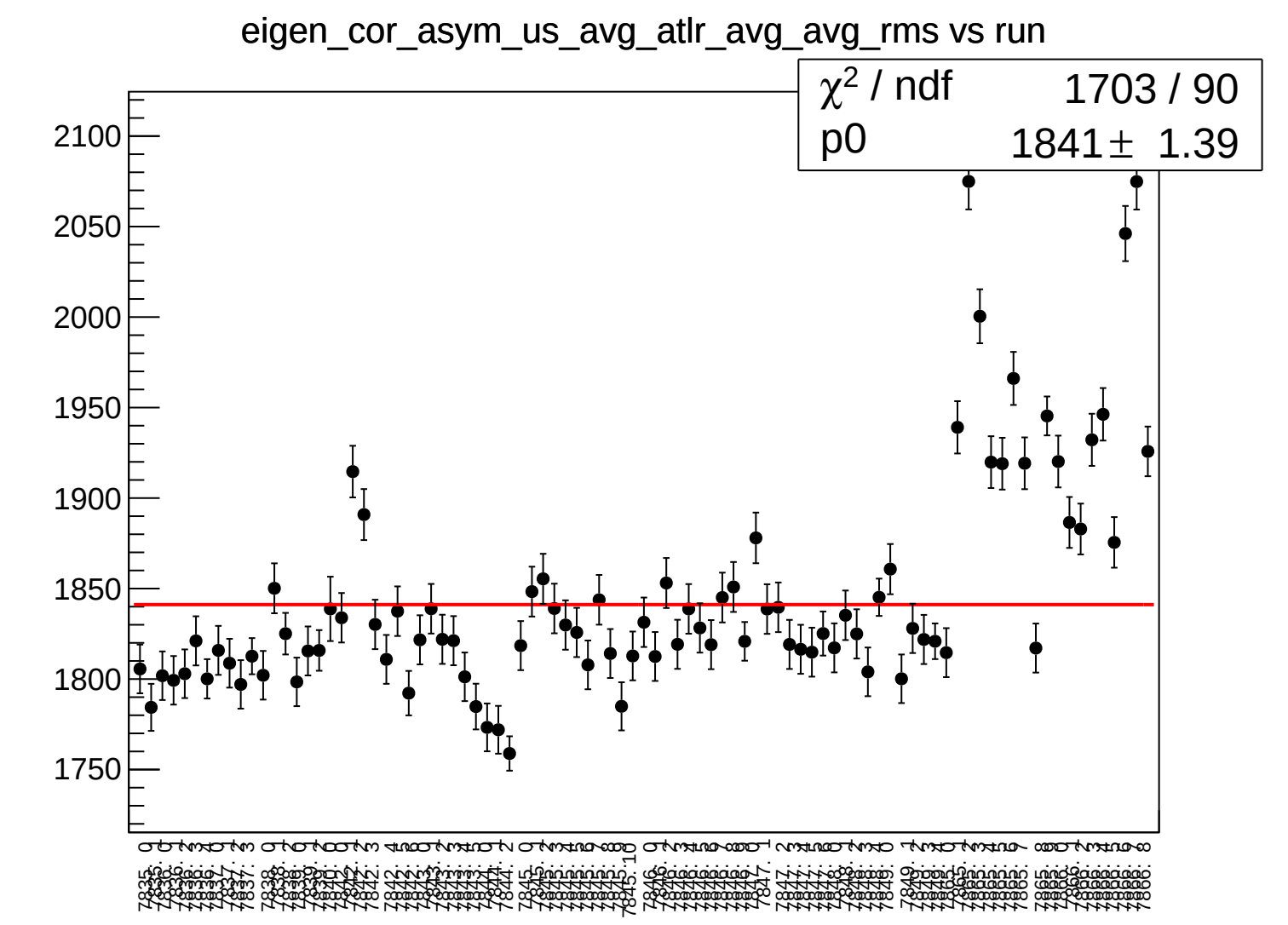

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103.3 / 90
p0 −1.834e+04 ± 1.025e+04
400
200
0
−200
−400
pull
Entries 91
Mean −85.37
Std Dev 0
3
2
1
0
−1
−2

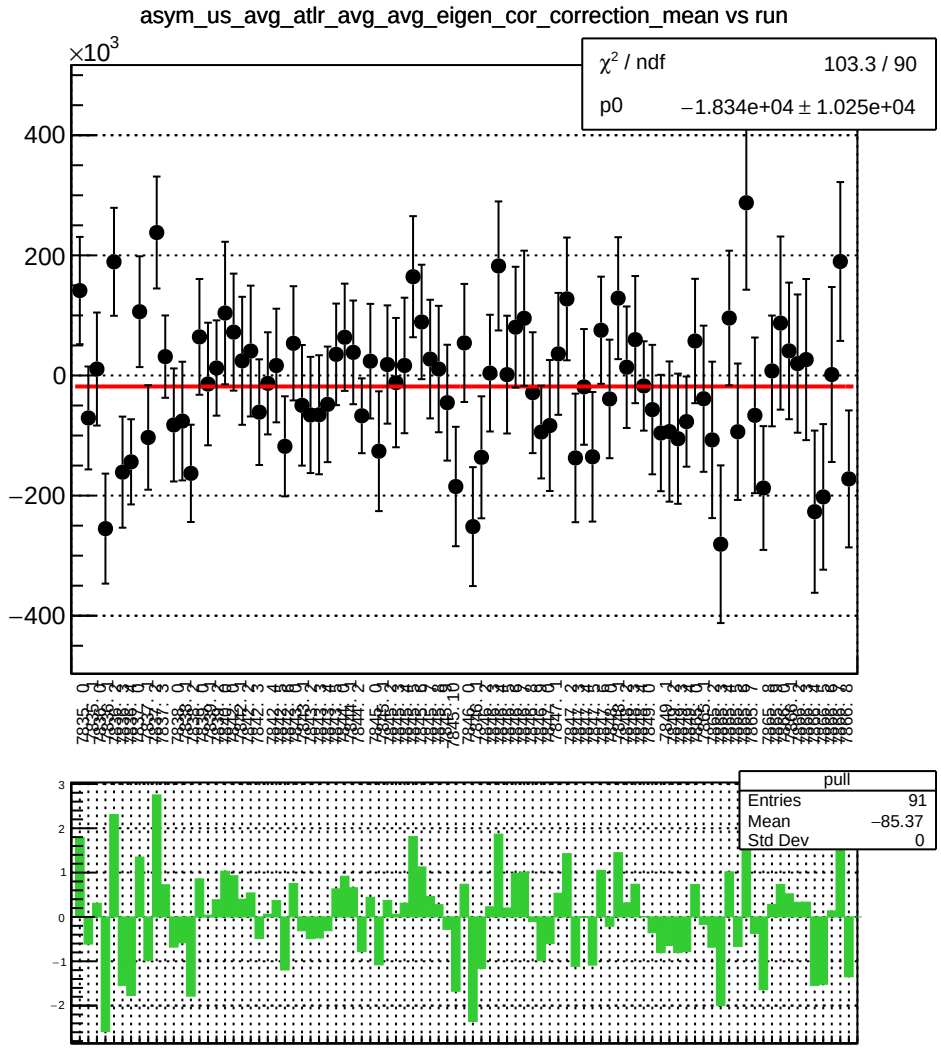

pull1D
Entries 91
Mean 0.01593
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

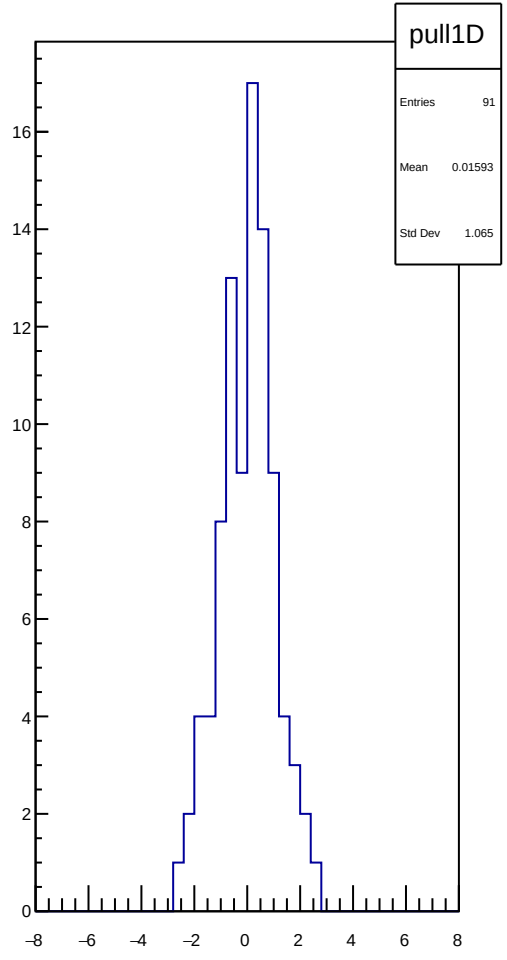

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.365e+04 / 90
p0 9535 ± 7.246
14000
13000
12000
11000
10000
9000
8000

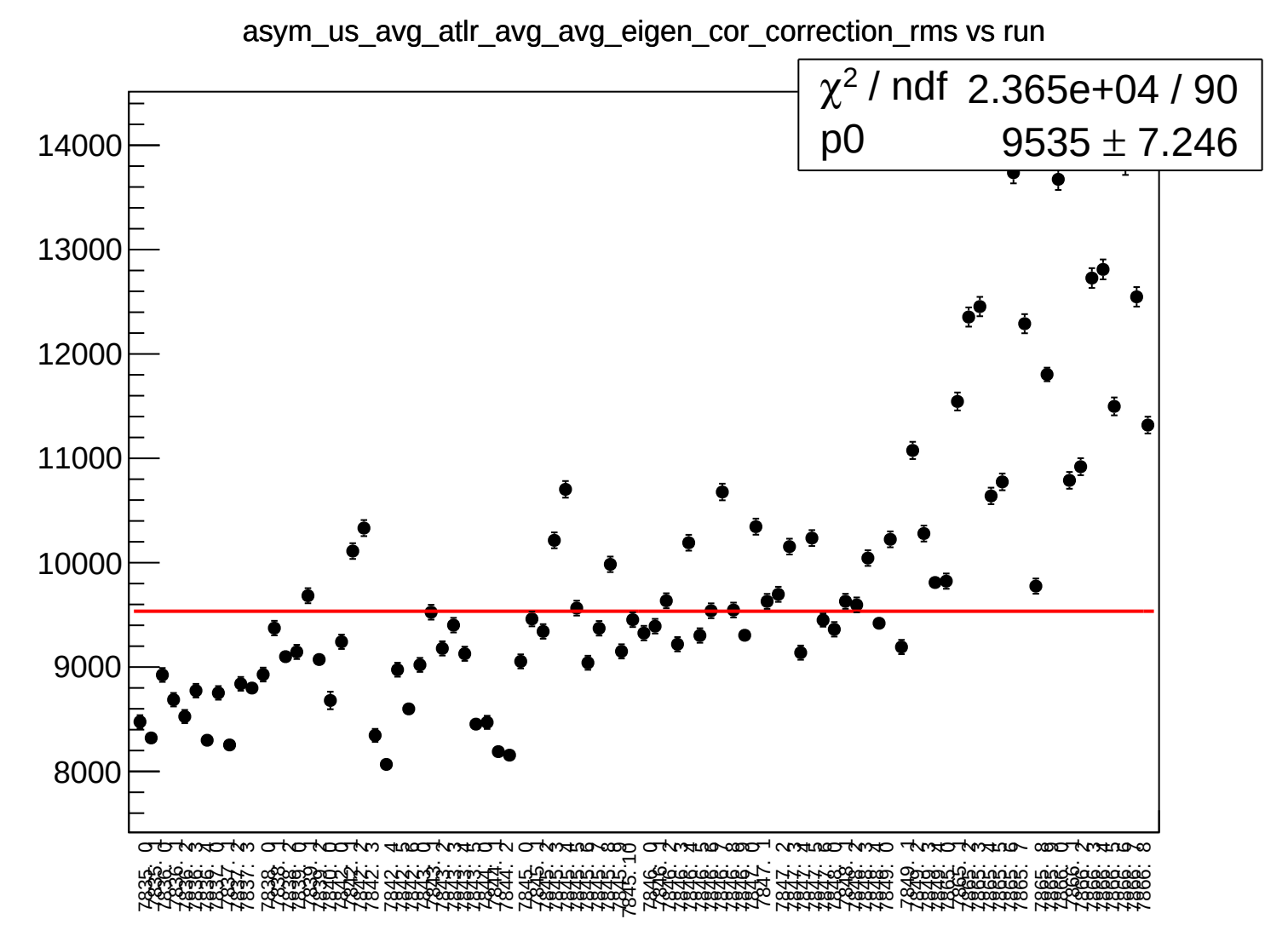

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.42 / 90
p0 6063 ± 1966
pull
Entries 91
Mean 683.5
Std Dev 0

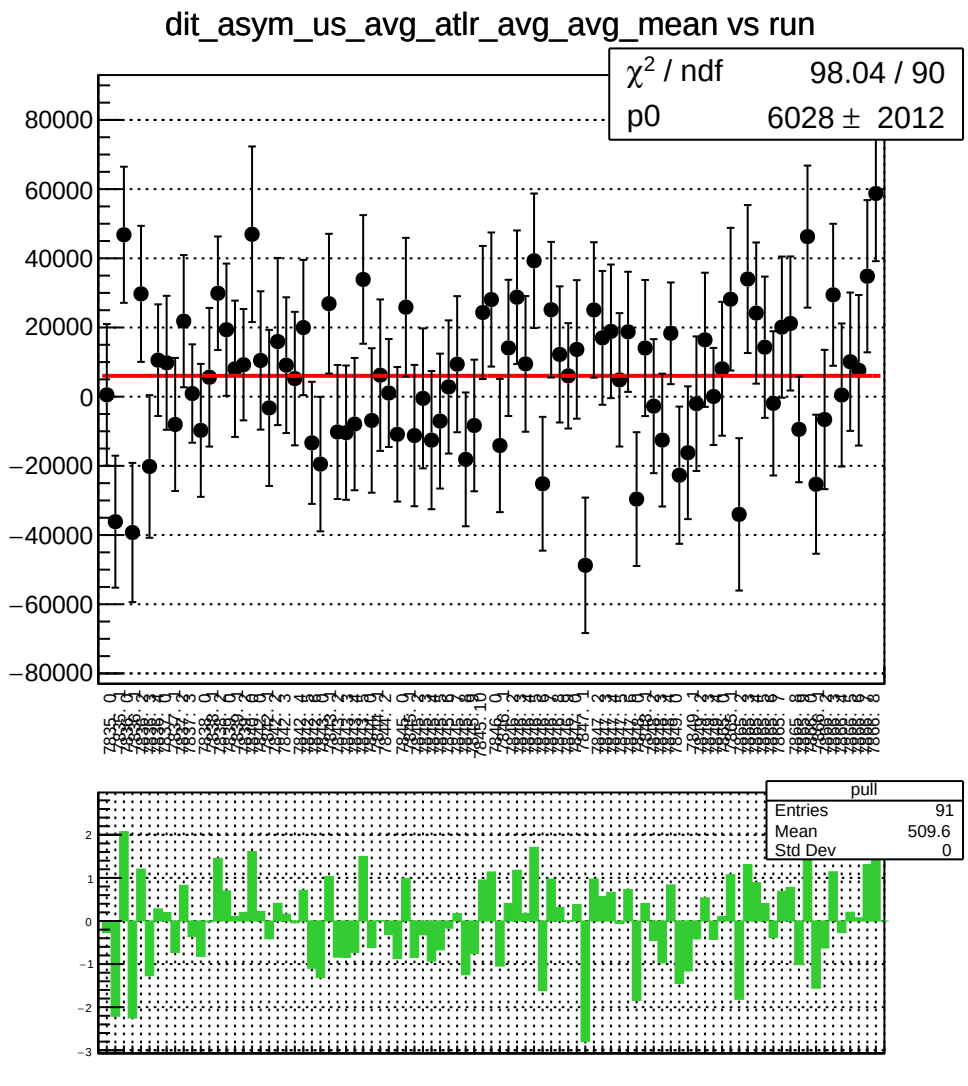

pull1D
Entries 91
Mean 0.004575
Std Dev 1.024

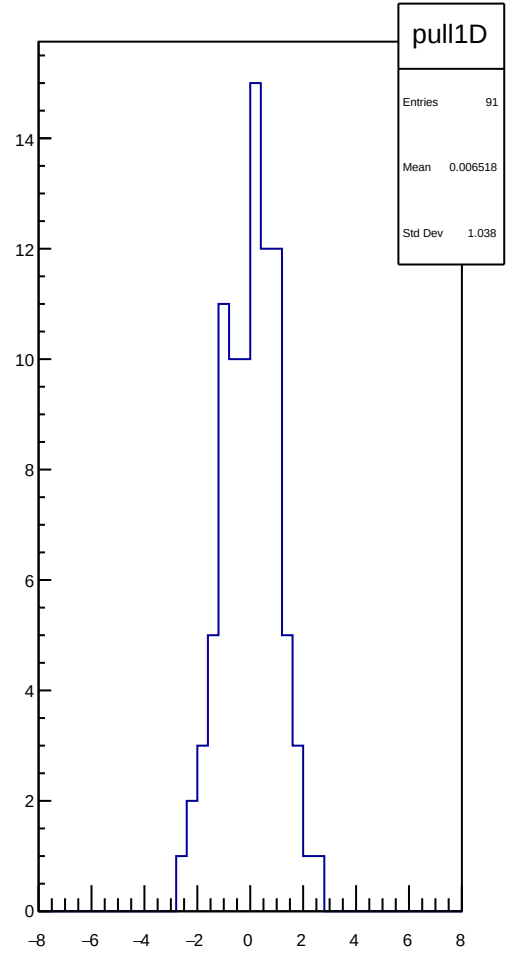

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1703 / 90
p0 1841 ± 1.39
2100
2050
2000
1950
1900
1850
1800
1750

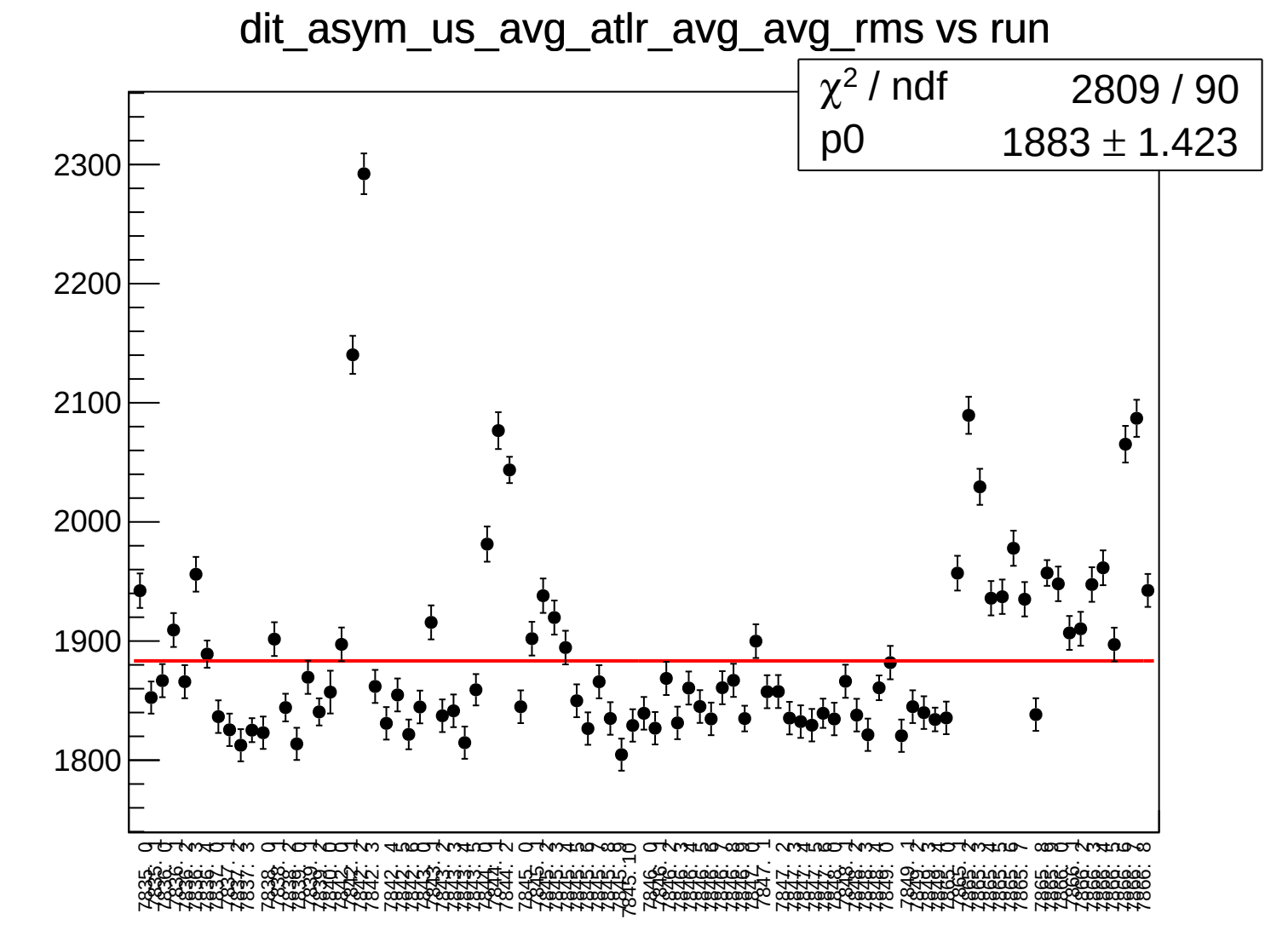

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.3 / 90
p0 −1.834e+04 ± 1.025e+04
400
200
0
−200
−400
pull
Entries 91
Mean −85.37
Std Dev 0
3
2
1
0
−1
−2

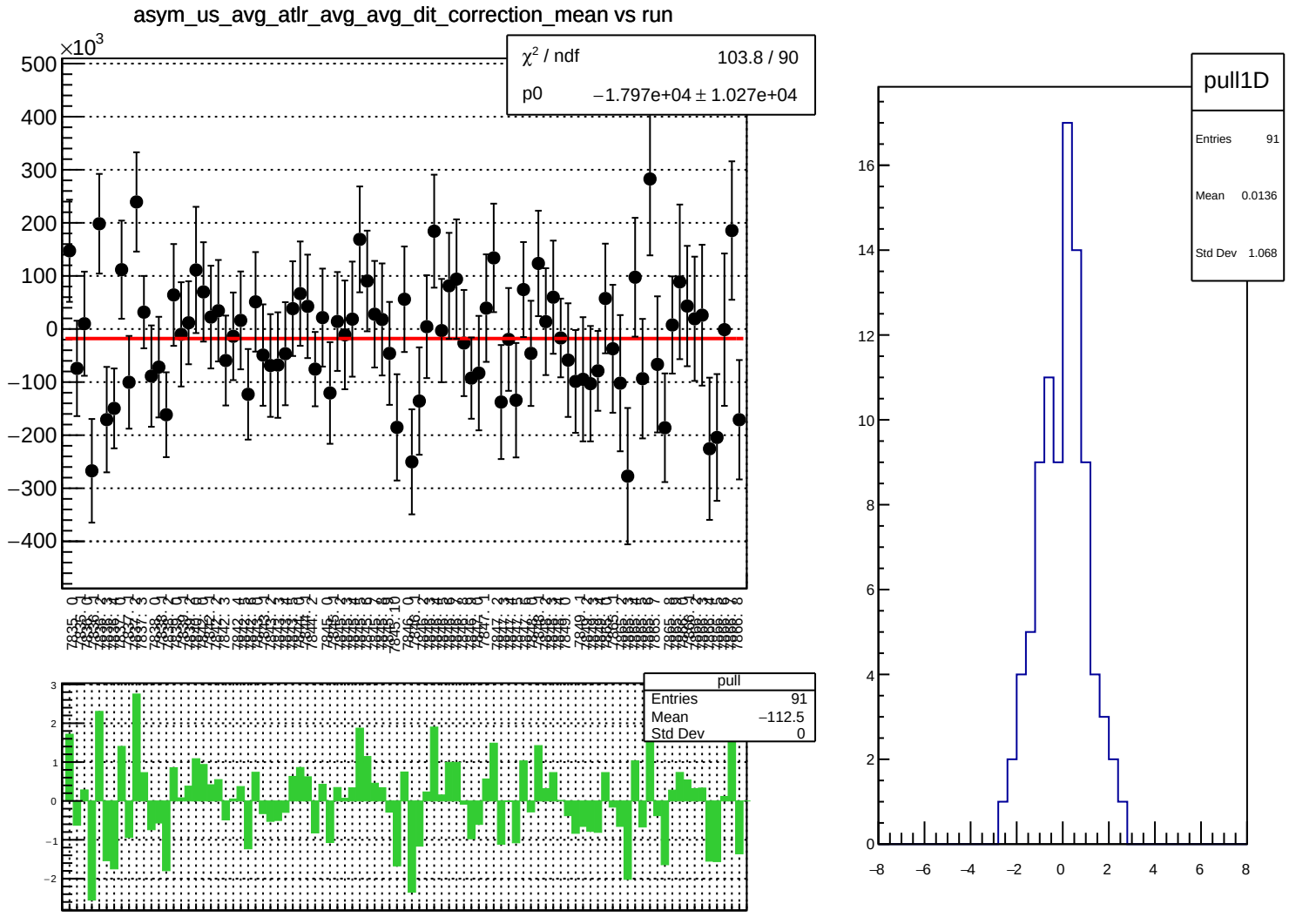

pull1D
Entries 91
Mean 0.01593
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

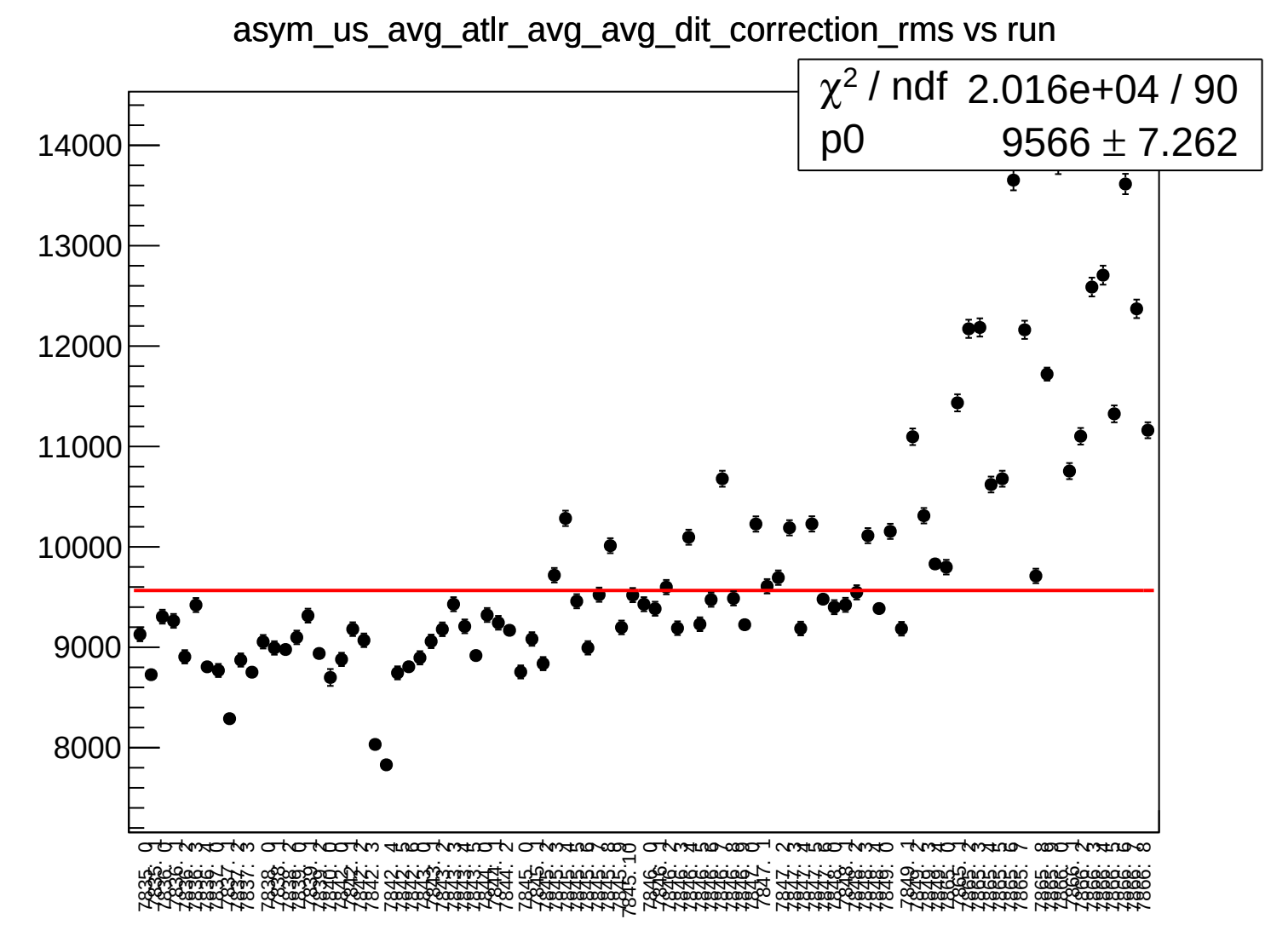

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.365e+04 / 90
p0 9535 ± 7.246
14000
13000
12000
11000
10000
9000
8000

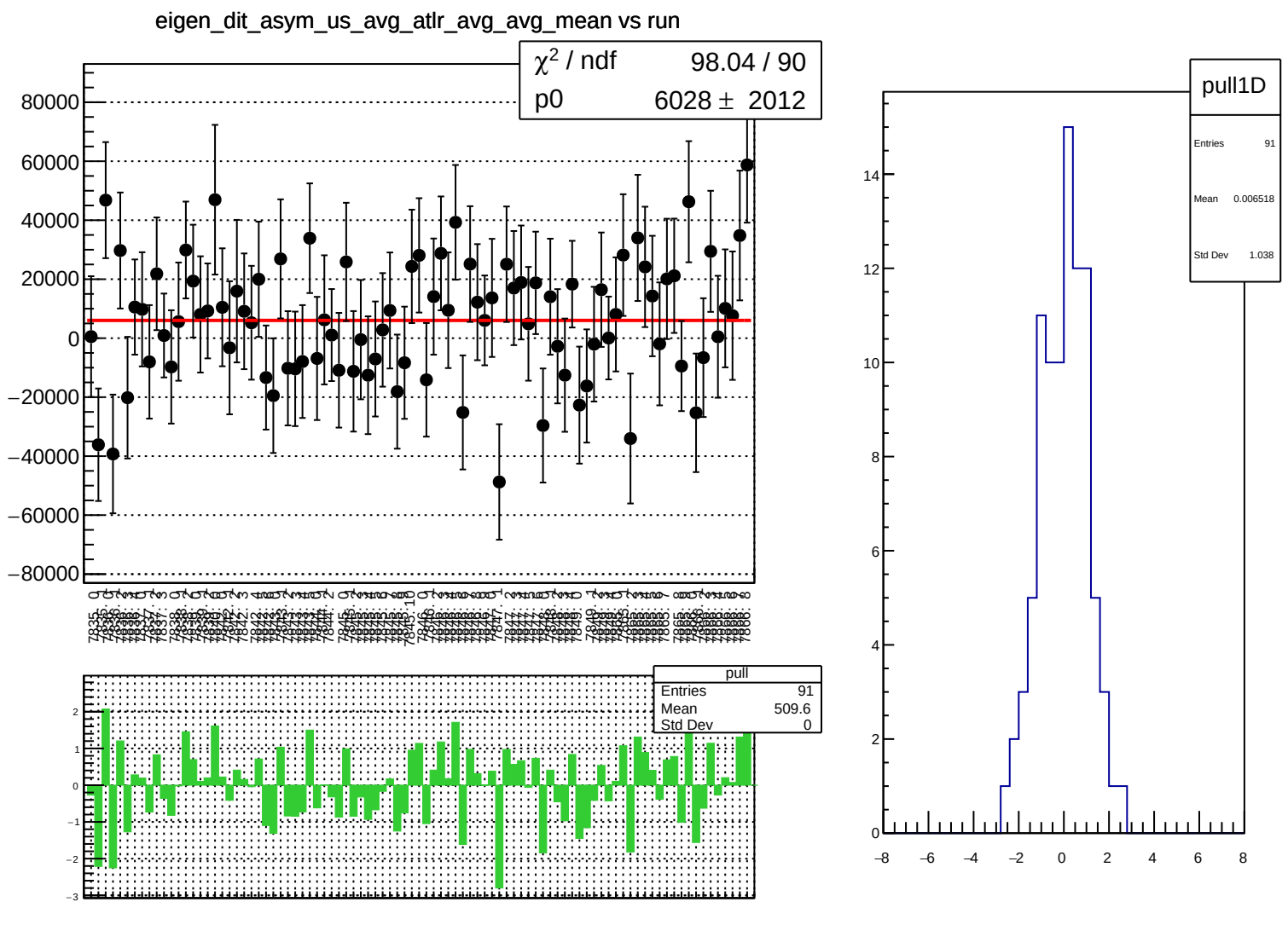

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.04 / 90
p0 6028 ± 2012
pull
Entries 91
Mean 509.6
Std Dev 0

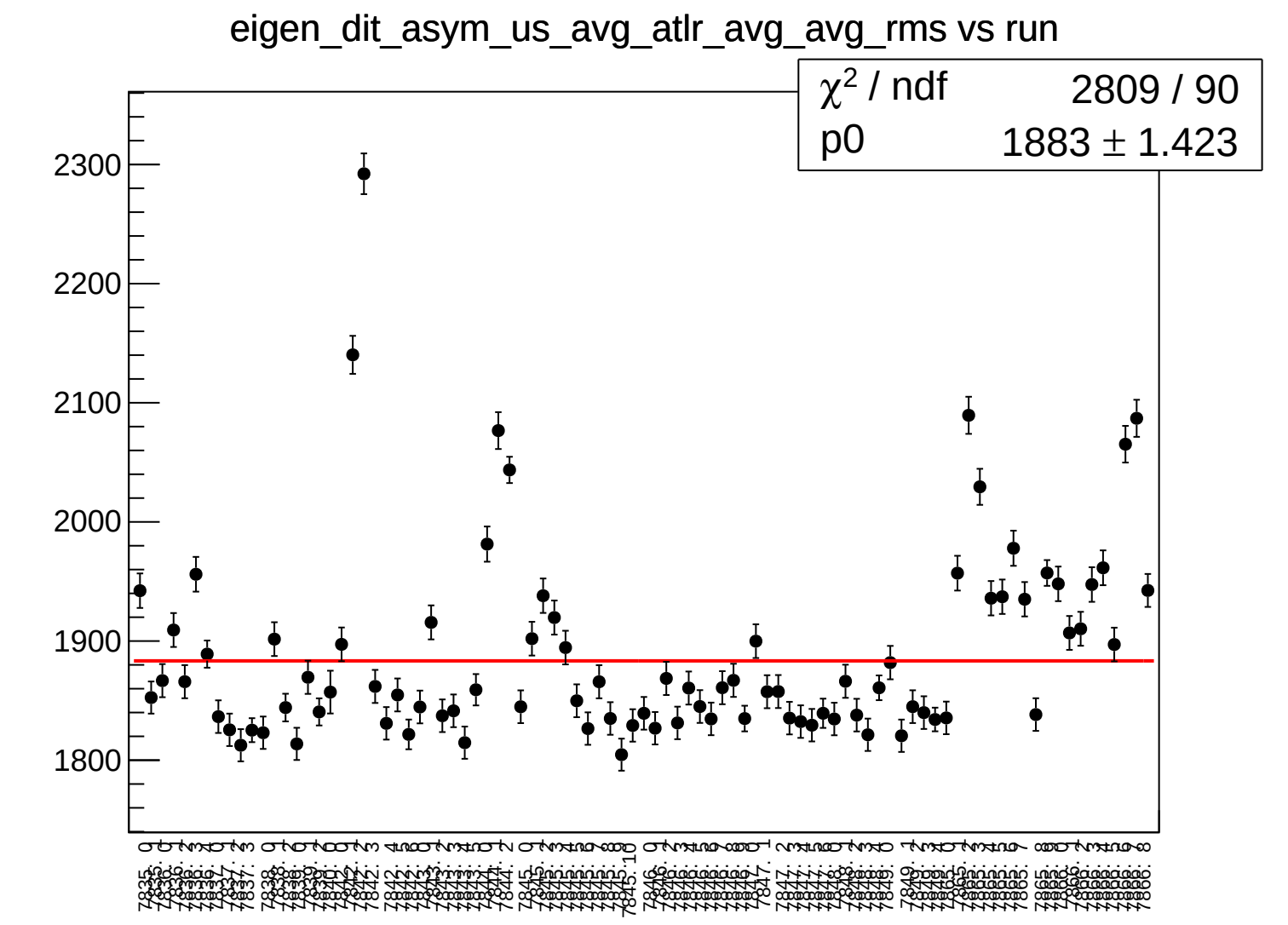

pull1D
Entries 91
Mean 0.006518
Std Dev 1.038

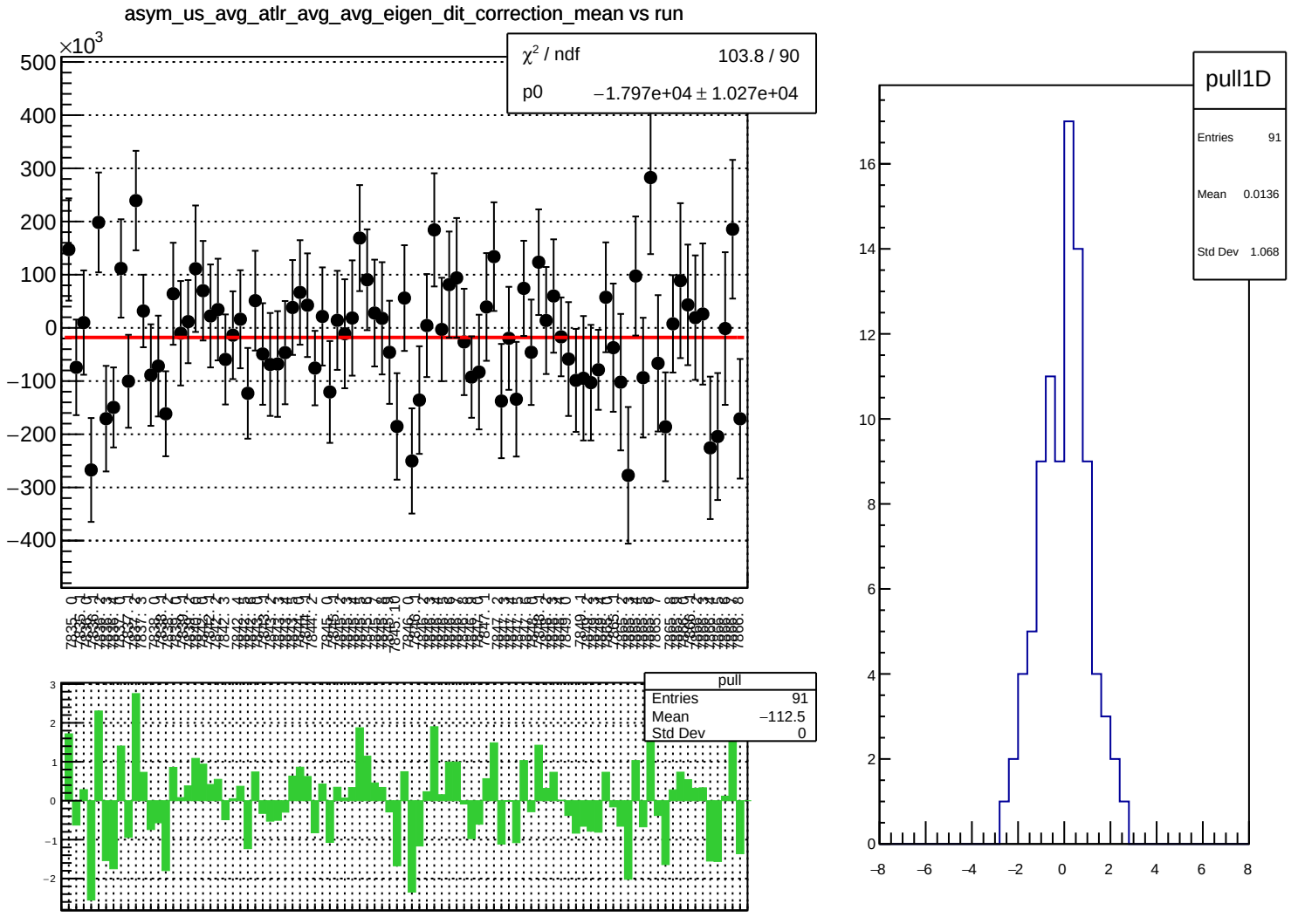

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2809 / 90
p0 1883 ± 1.423
2300
2200
2100
2000
1900
1800

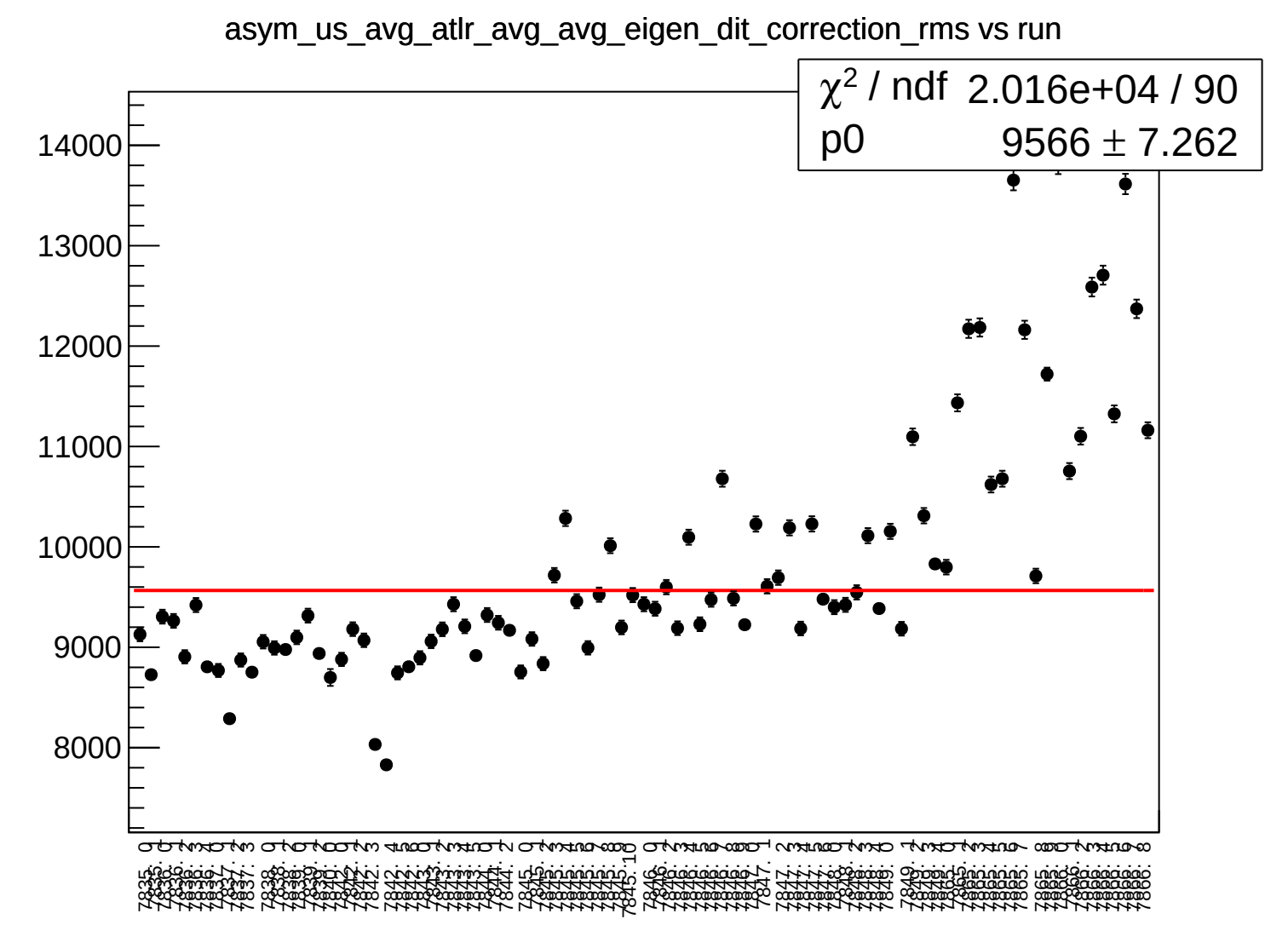

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.8 / 90
p0 −1.797e+04 ± 1.027e+04
pull
Entries 91
Mean −112.5
Std Dev 0
pull1D
Entries 91
Mean 0.0136
Std Dev 1.068

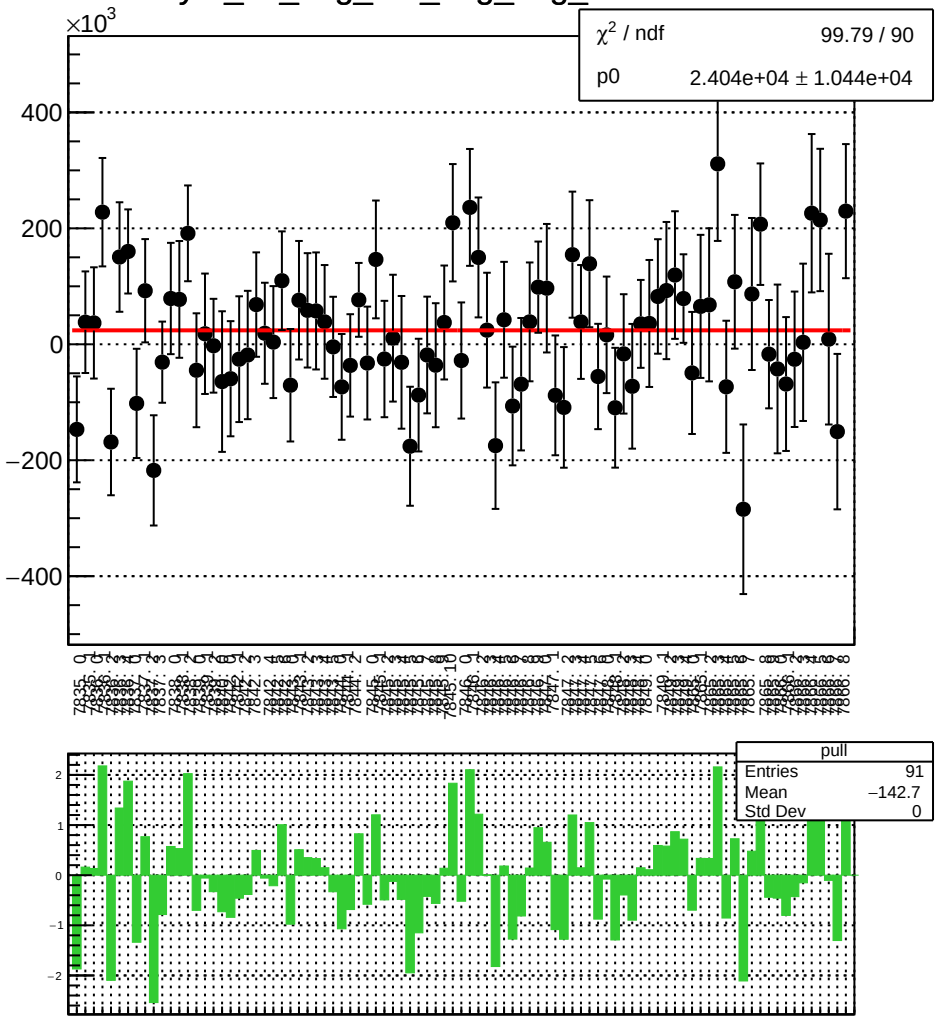

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.016e+04 / 90
p0 9566 ± 7.262
14000
13000
12000
11000
10000
9000
8000

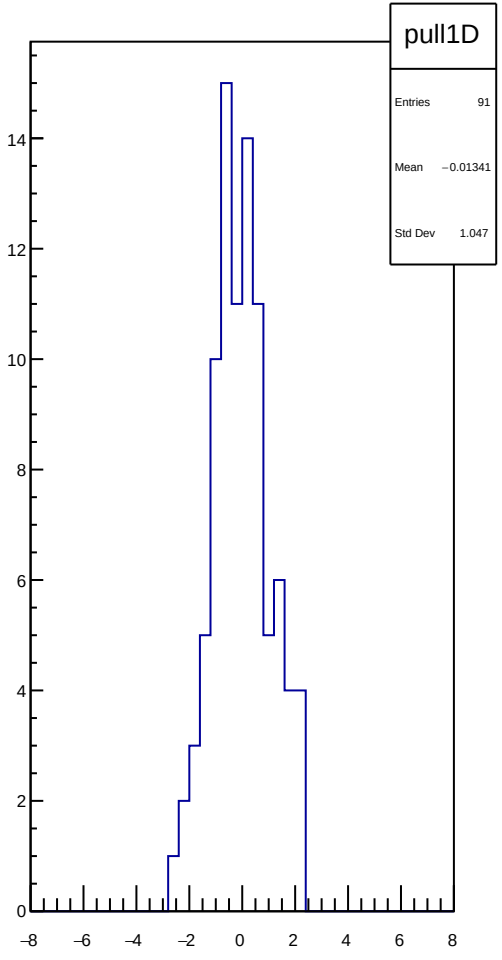

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.04 / 90
p0 6028 ± 2012
pull
Entries 91
Mean 509.6
Std Dev 0
pull1D
Entries 91
Mean 0.006518
Std Dev 1.038

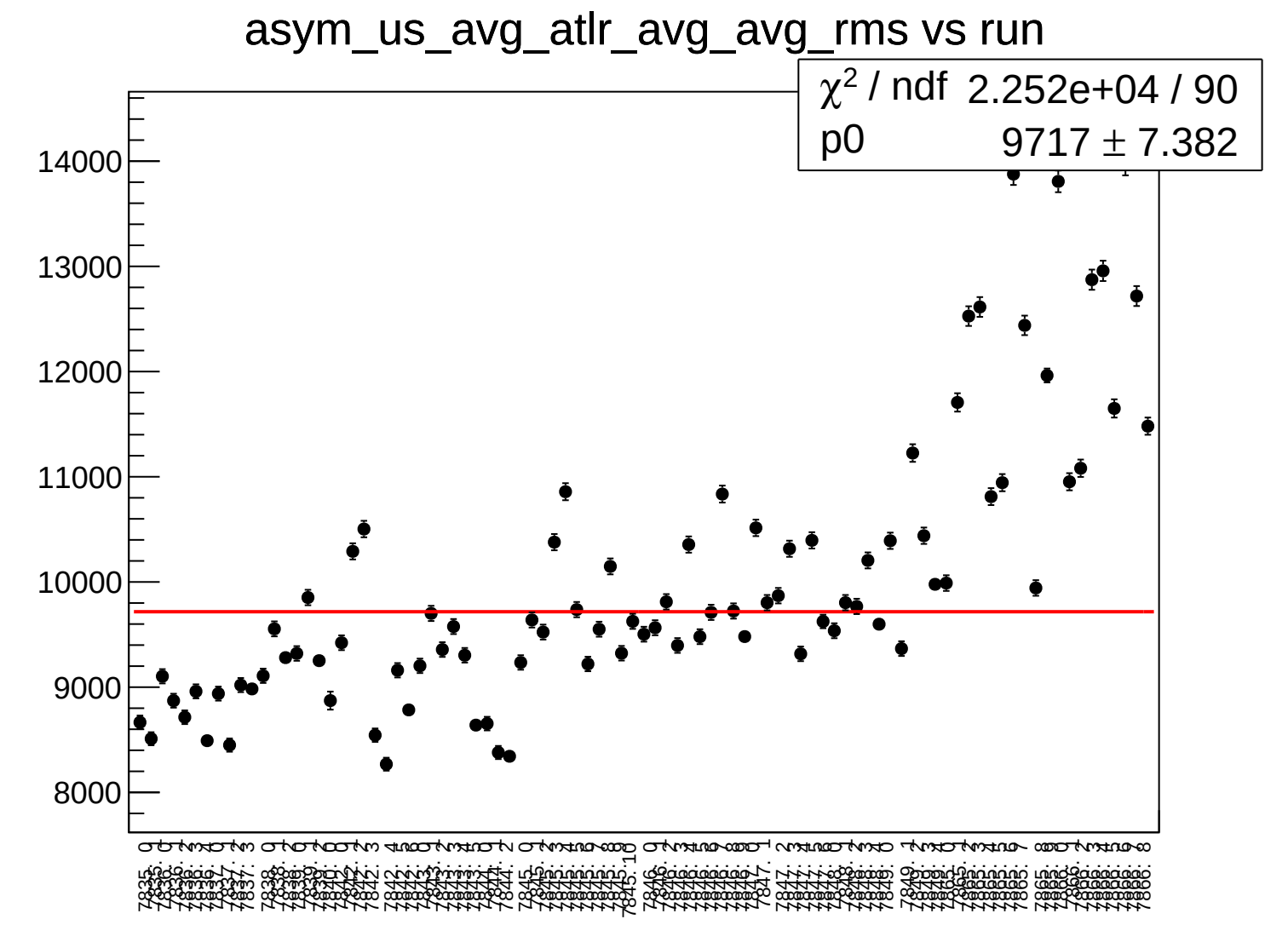

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 2809 / 90
p0 1883 ± 1.423
2300
2200
2100
2000
1900
1800

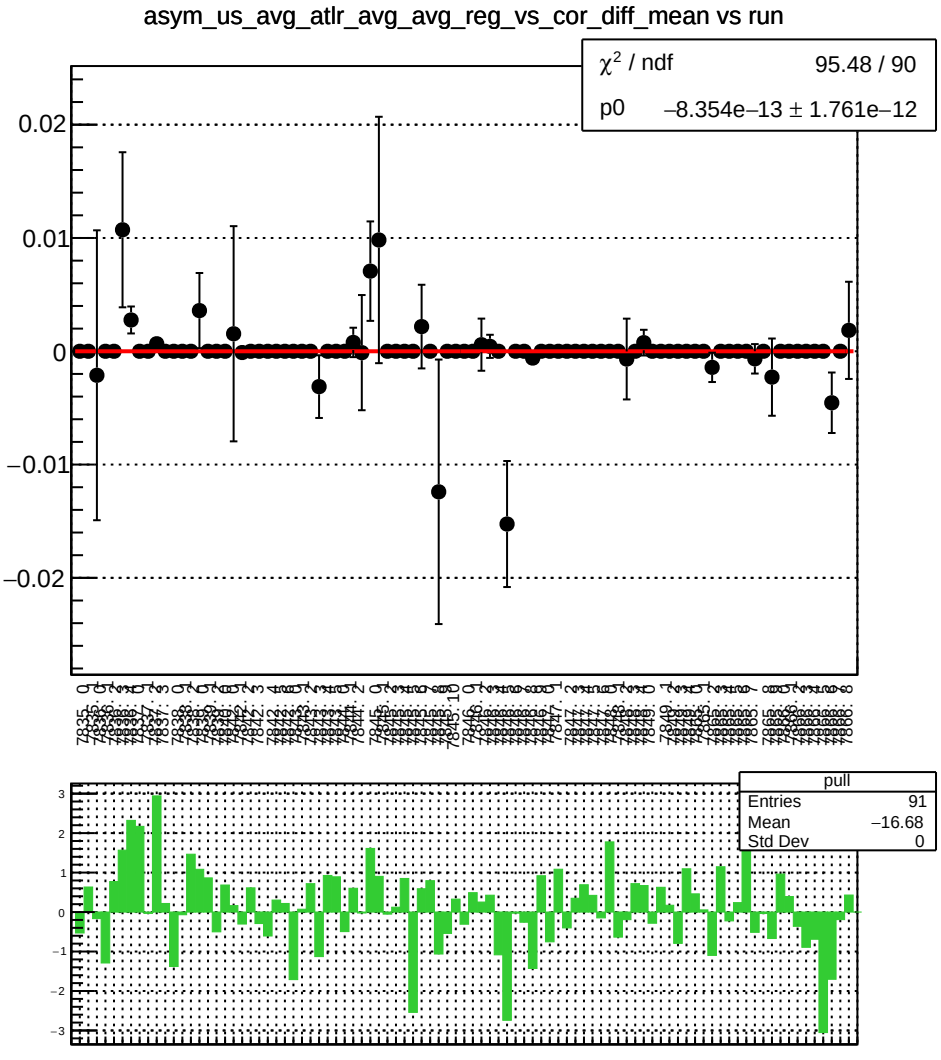

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.8 / 90
p0 −1.797e+04 ± 1.027e+04
pull
Entries 91
Mean −112.5
Std Dev 0
pull1D
Entries 91
Mean 0.0136
Std Dev 1.068

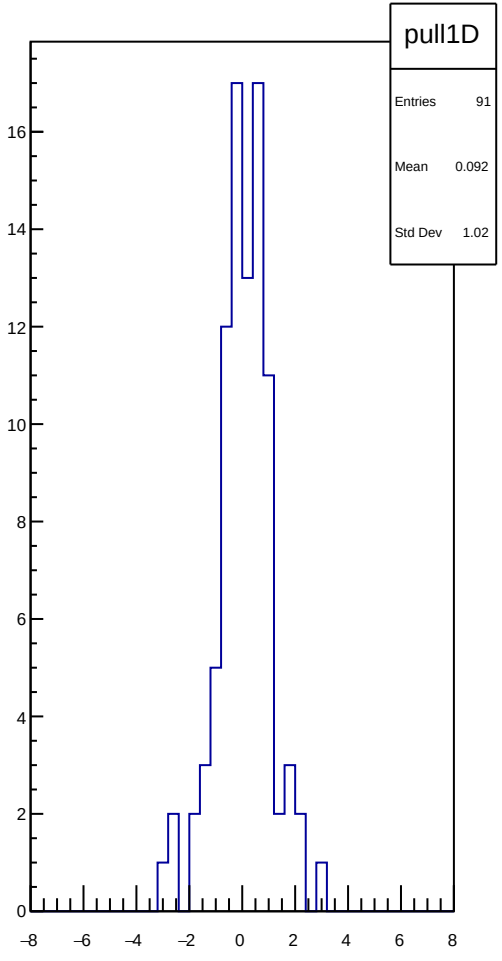

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.016e+04 / 90
p0 9566 ± 7.262
14000
13000
12000
11000
10000
9000
8000

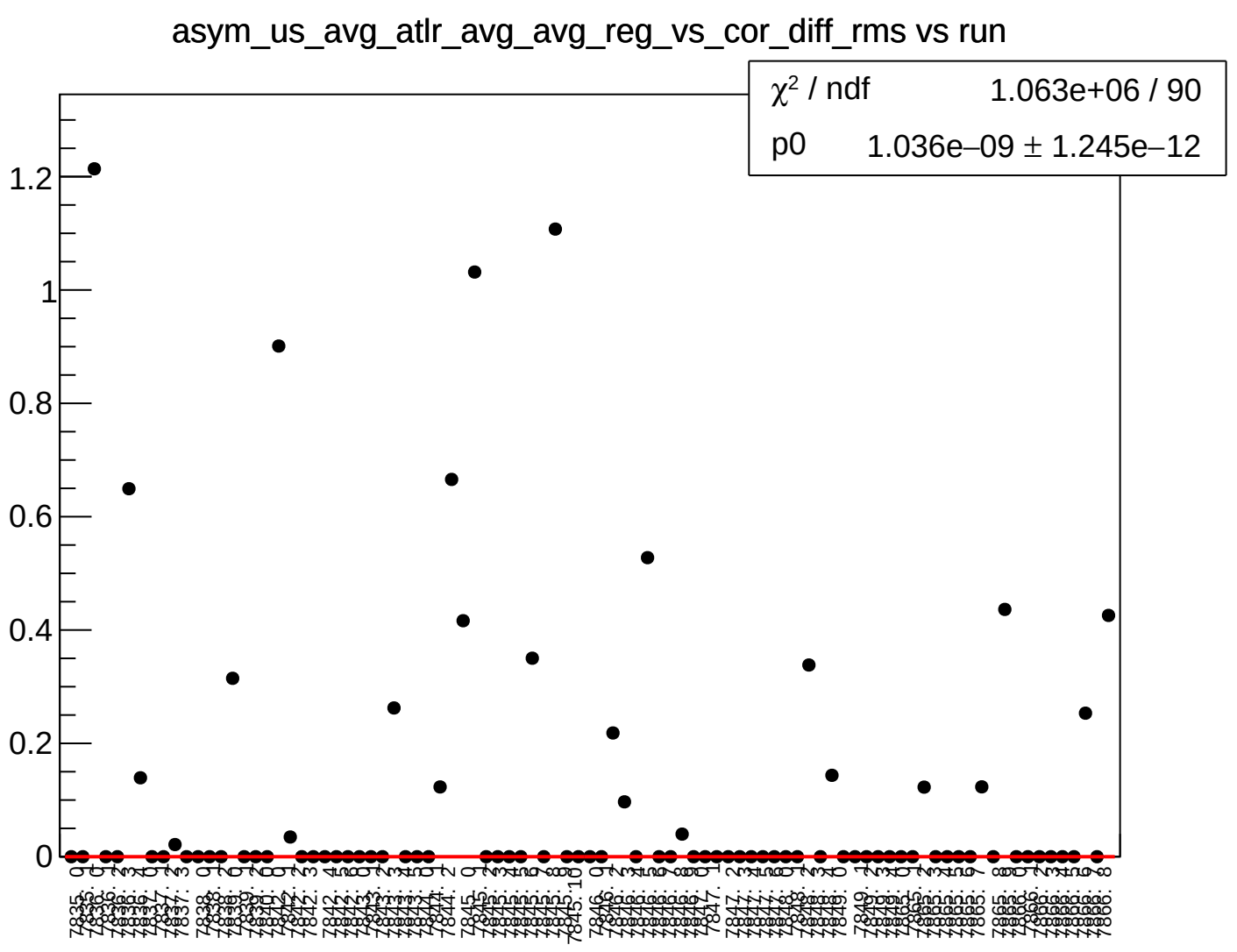

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 99.79 / 90
p0 2.404e+04 ± 1.044e+04
400
200
0
−200
−400
pull
Entries 91
Mean −142.7
Std Dev 0
2
1
0
−1
−2

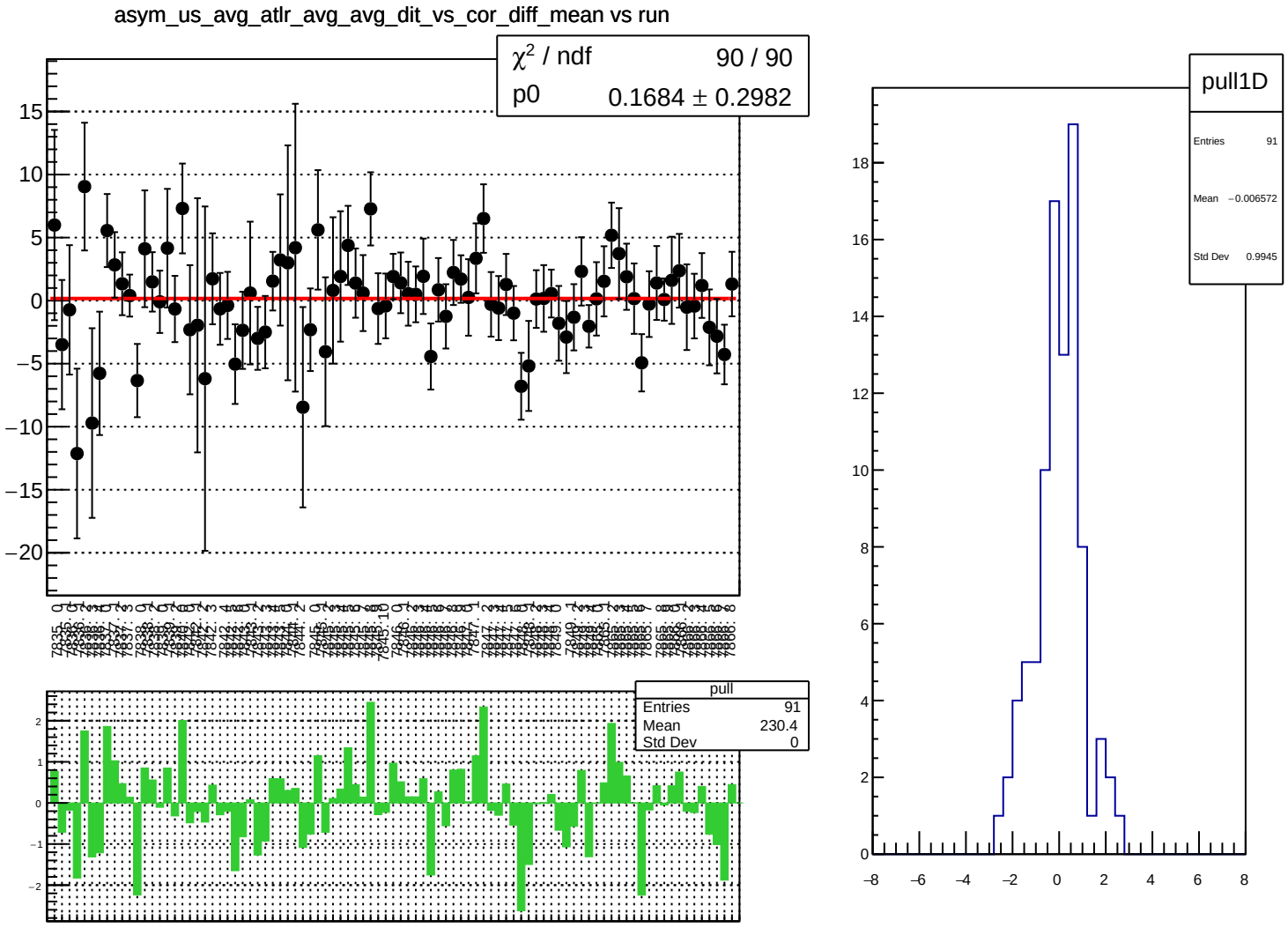

pull1D
Entries 91
Mean −0.01341
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

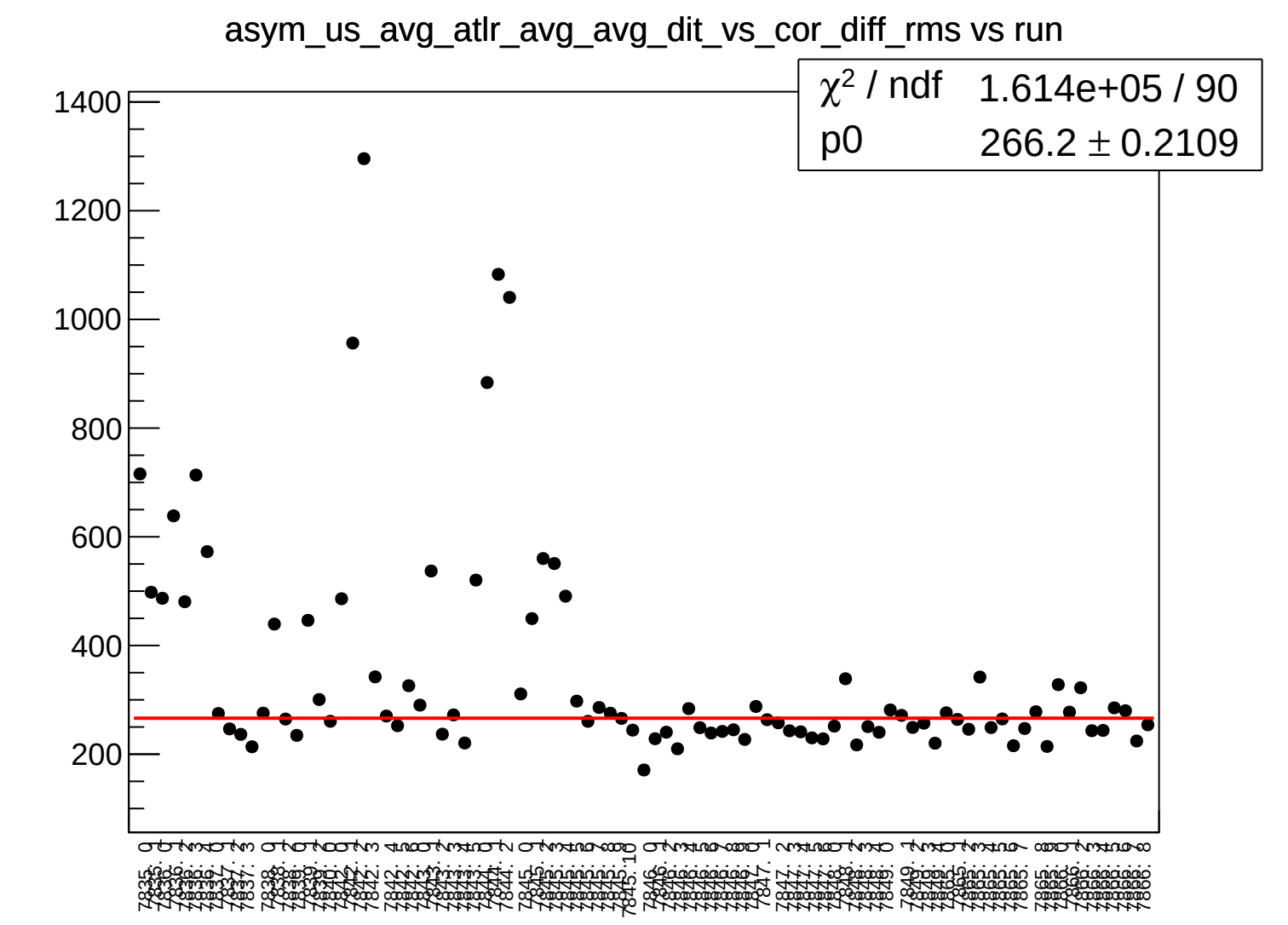

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2.252e+04 / 90
p0 9717 ± 7.382
14000
13000
12000
11000
10000
9000
8000

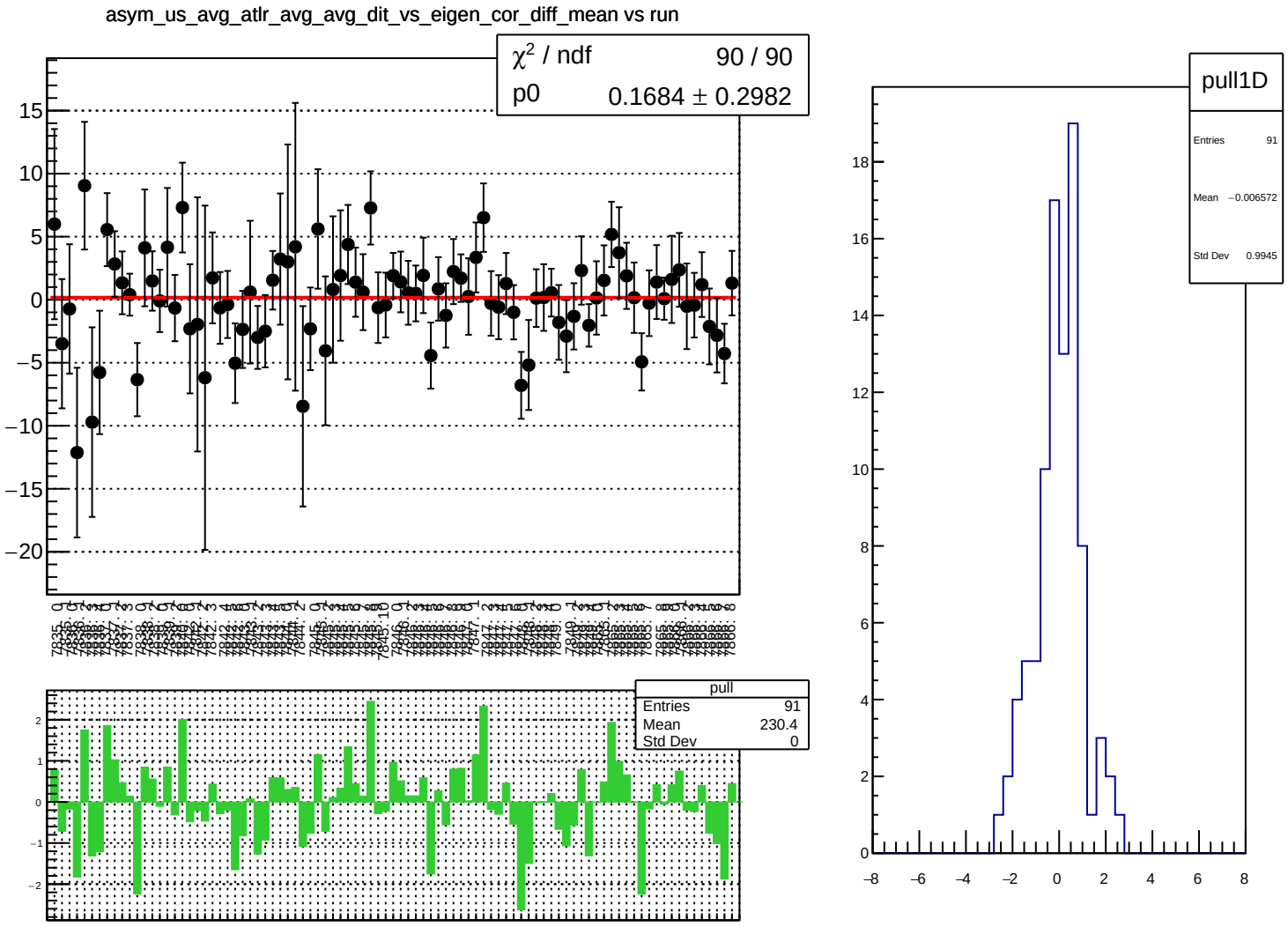

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.48 / 90
p0 −8.354e−13 ± 1.761e−12
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean −16.68
Std Dev 0
3
2
1
0
−1
−2
−3

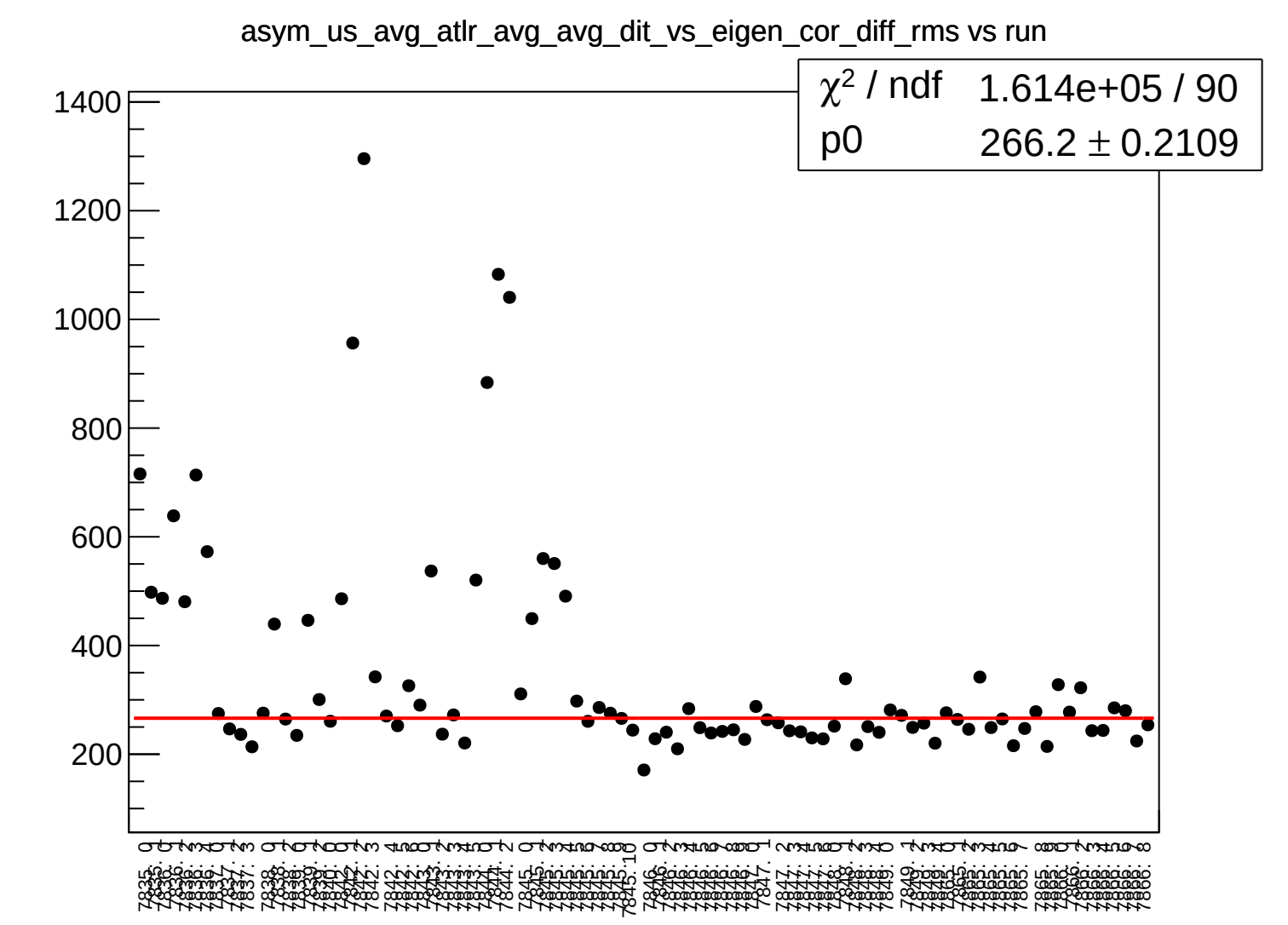

pull1D
Entries 91
Mean 0.092
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

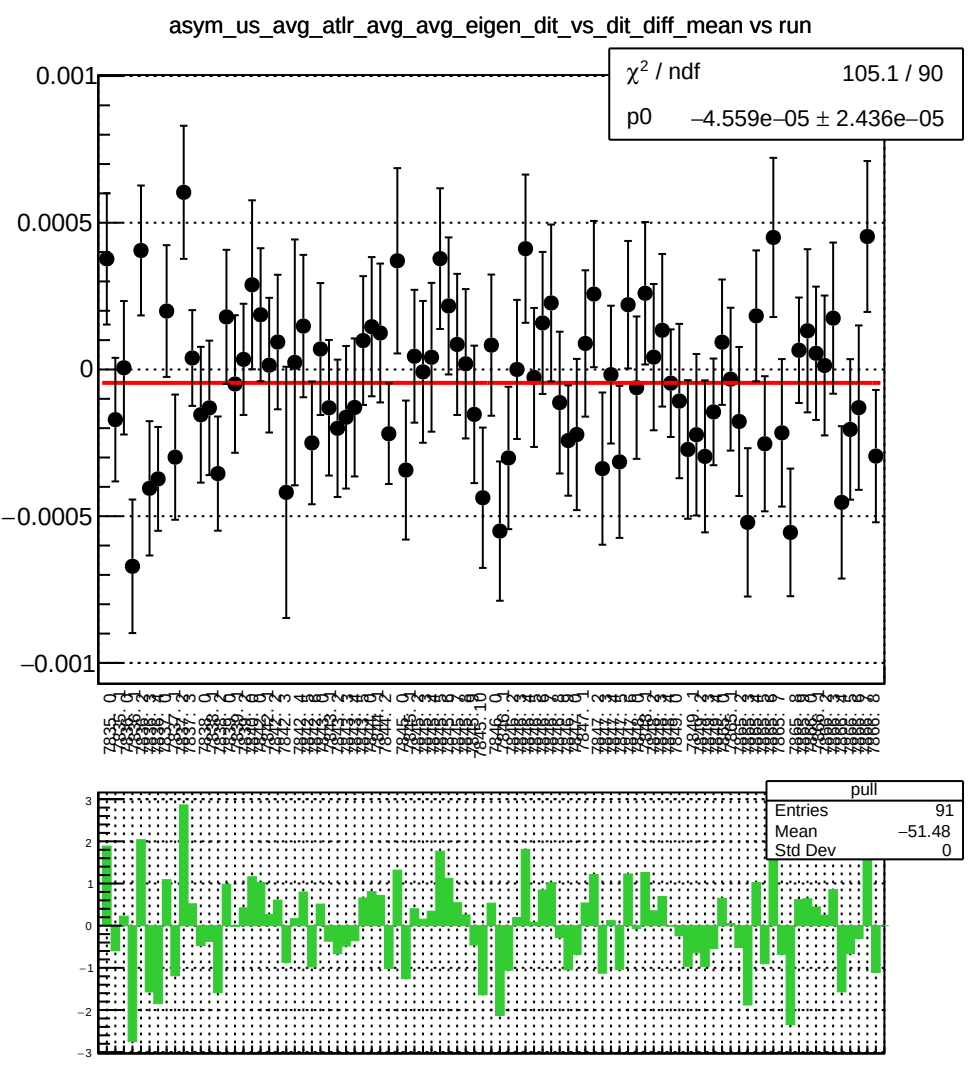

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.063e+06 / 90
p0 1.036e−09 ± 1.245e−12
1.2
1
0.8
0.6
0.4
0.2
0

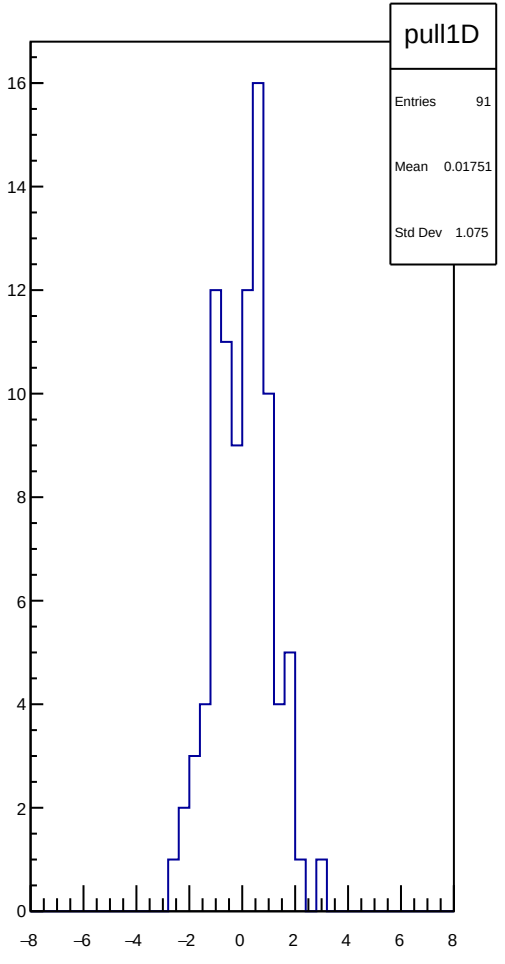

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90 / 90
p0 0.1684 ± 0.2982
pull
Entries 91
Mean 230.4
Std Dev 0
pull1D
Entries 91
Mean −0.006572
Std Dev 0.9945

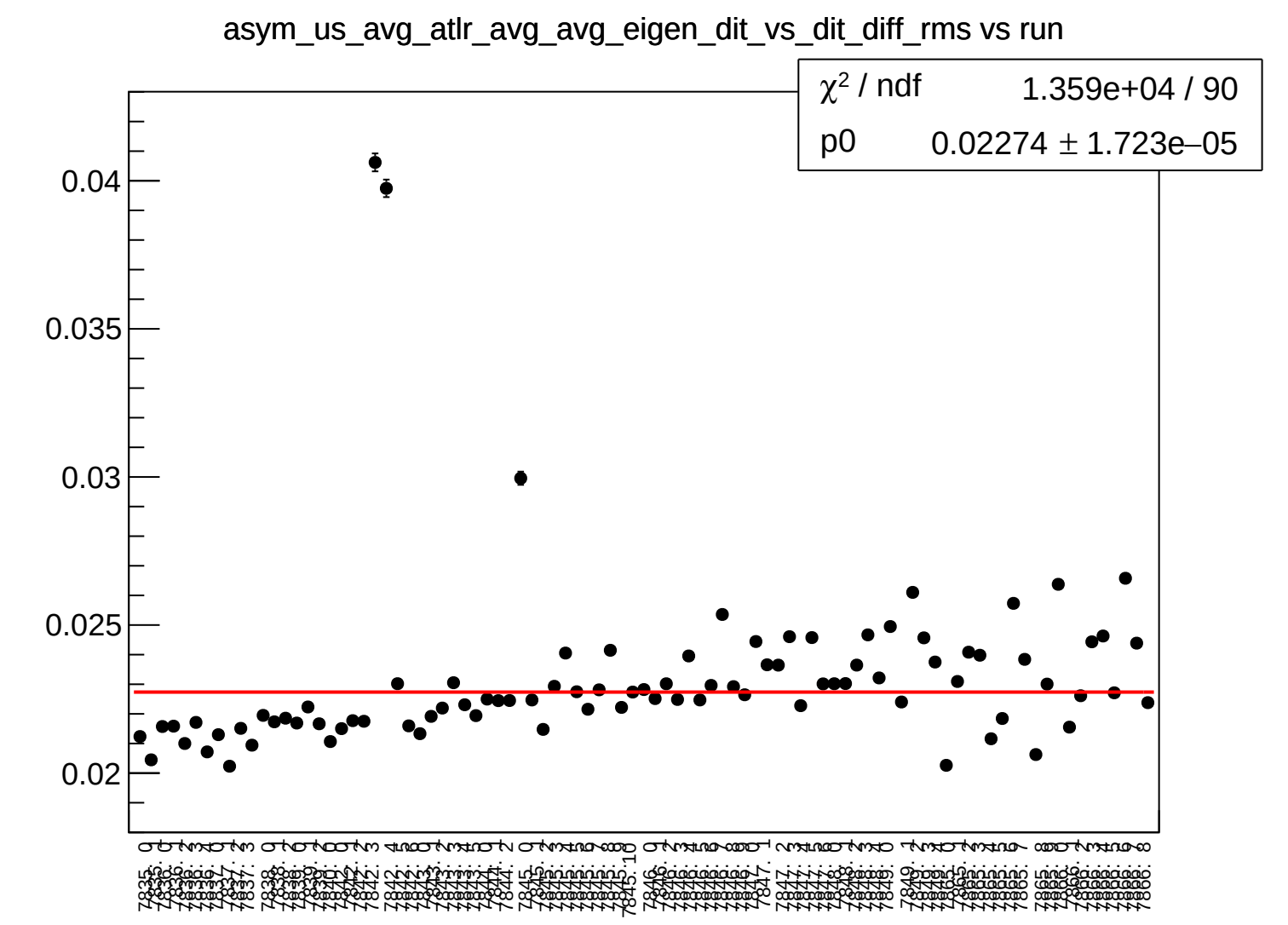

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.614e+05 / 90
p0 266.2 ± 0.2109
1400
1200
1000
800
600
400
200

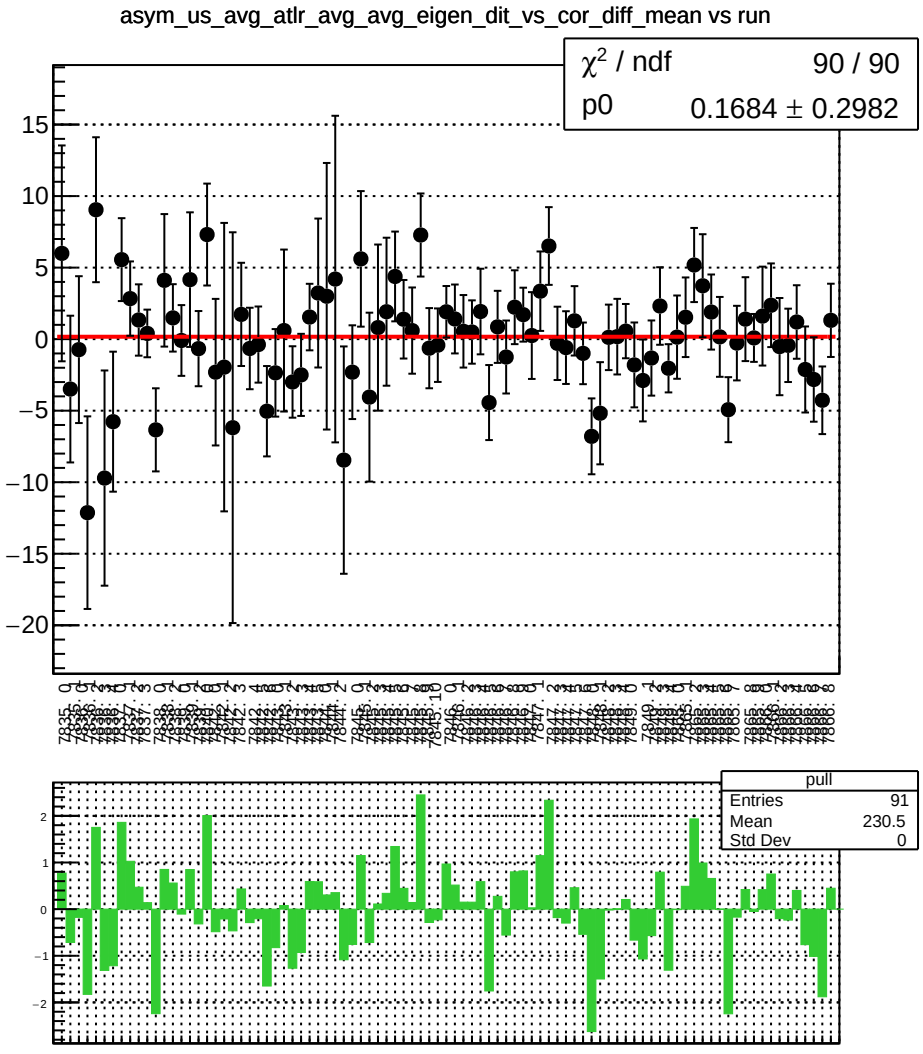

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90 / 90
p0 0.1684 ± 0.2982
pull
Entries 91
Mean 230.4
Std Dev 0
pull1D
Entries 91
Mean −0.006572
Std Dev 0.9945

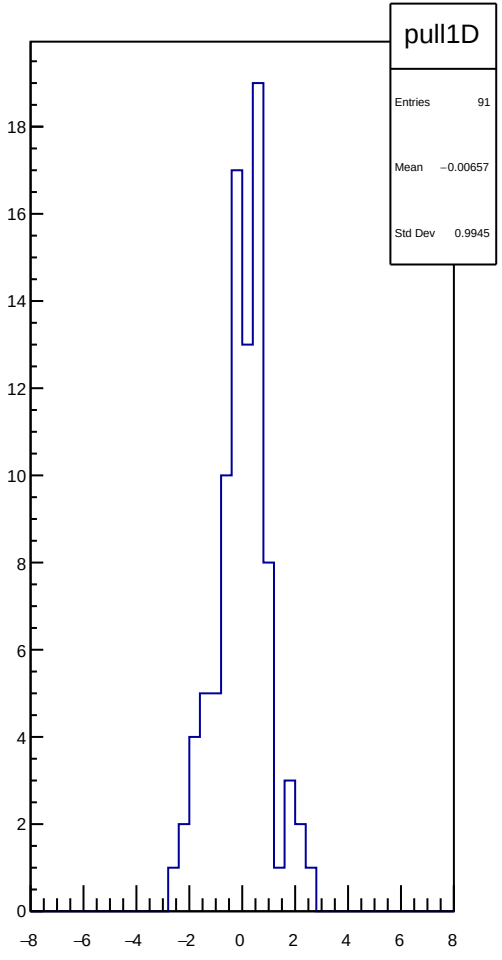

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.614e+05 / 90
p0 266.2 ± 0.2109
1400
1200
1000
800
600
400
200

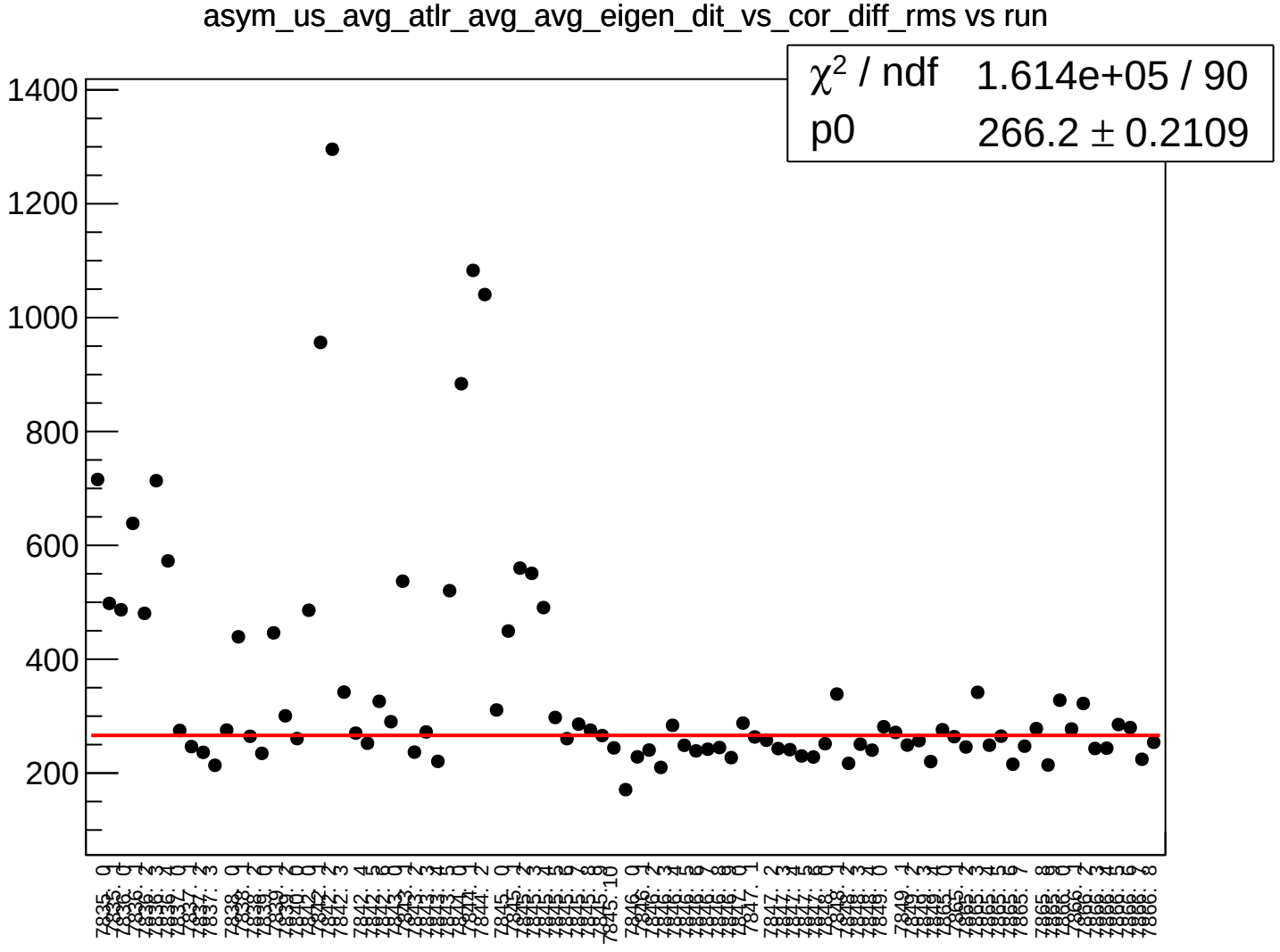

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 105.1 / 90
p0 −4.559e−05 ± 2.436e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −51.48
Std Dev 0
3
2
1
0
−1
−2
−3

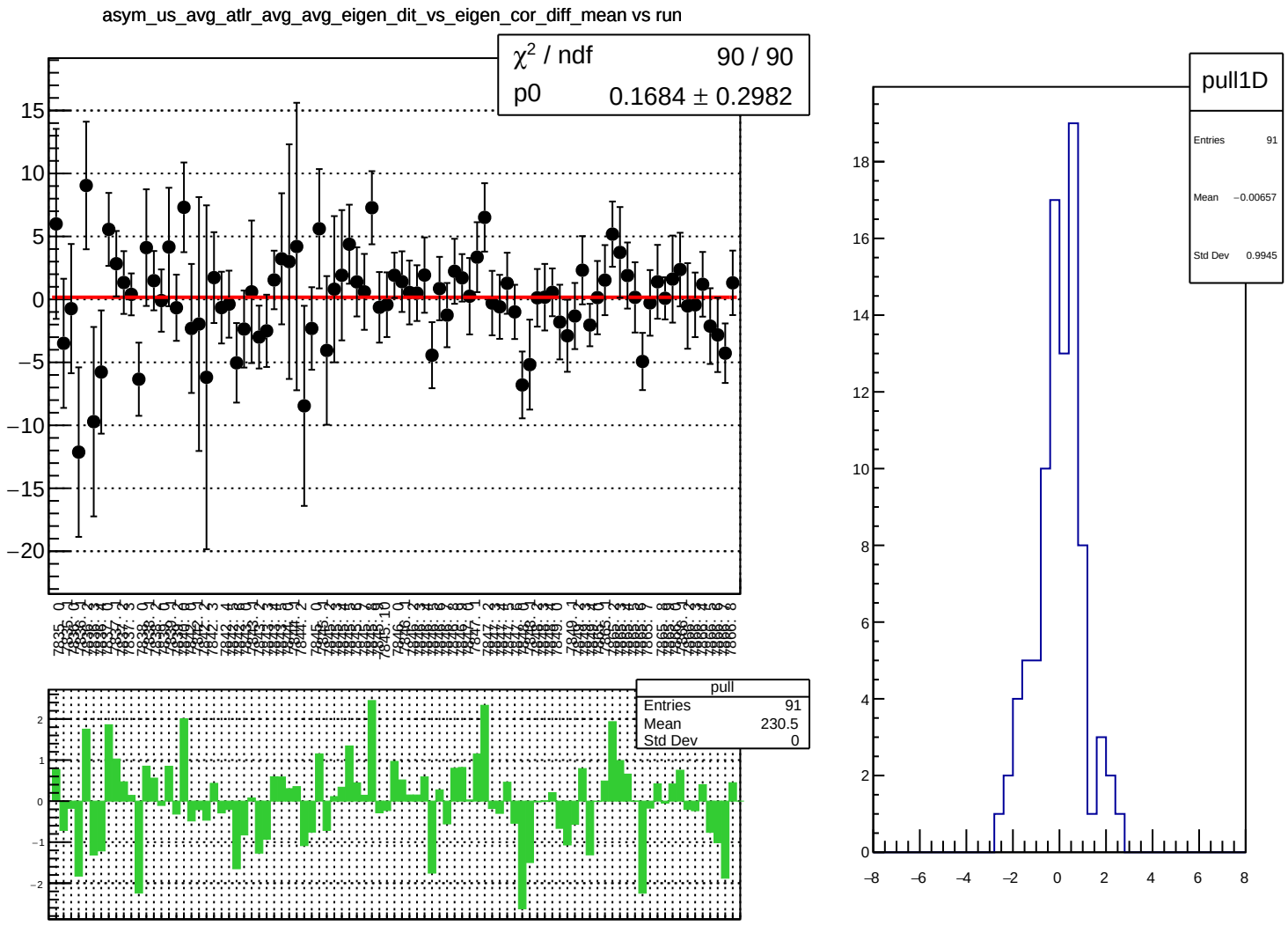

pull1D
Entries 91
Mean 0.01751
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

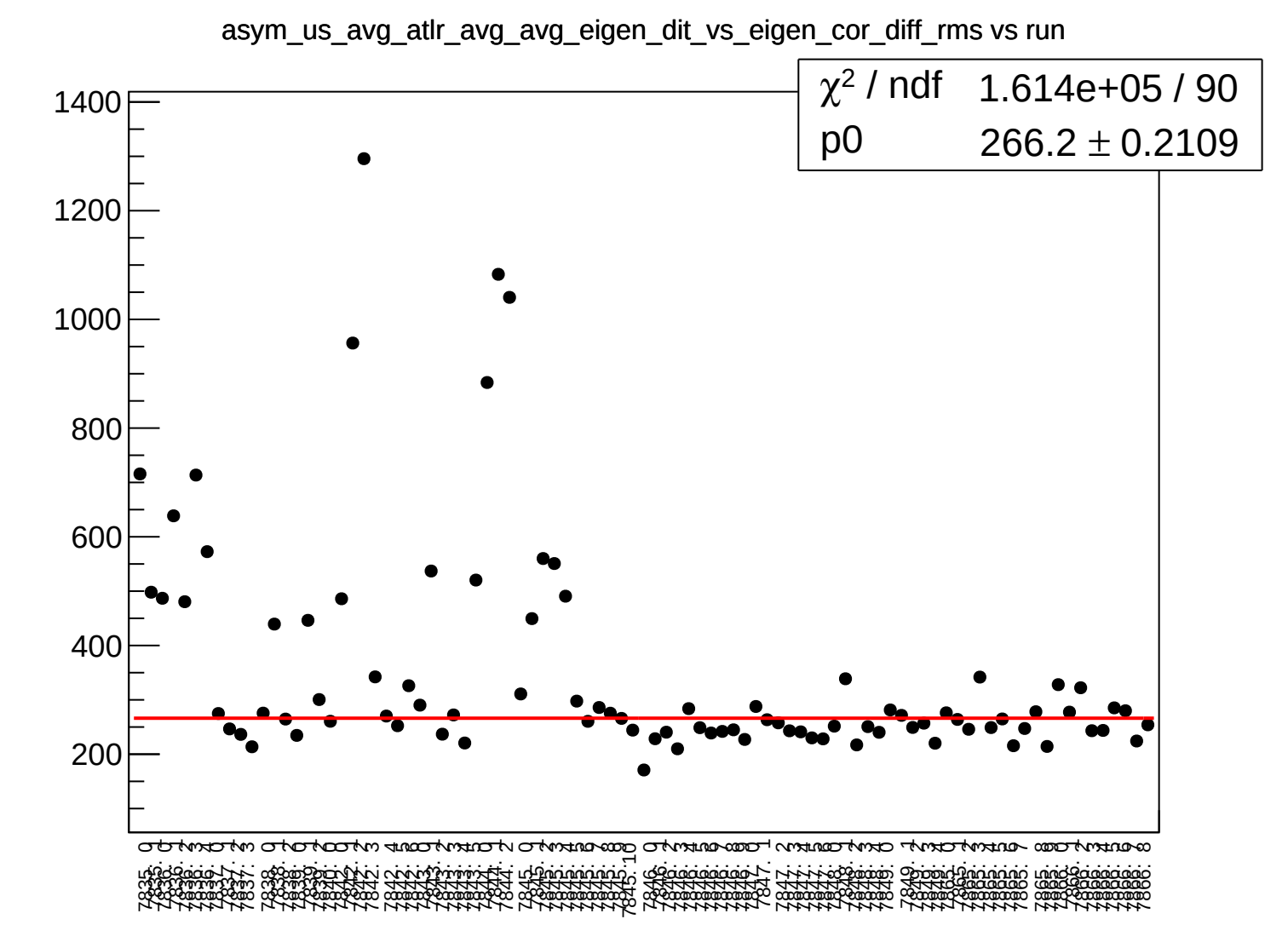

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.359e+04 / 90
p0 0.02274 ± 1.723e−05
0.04
0.035
0.03
0.025
0.02

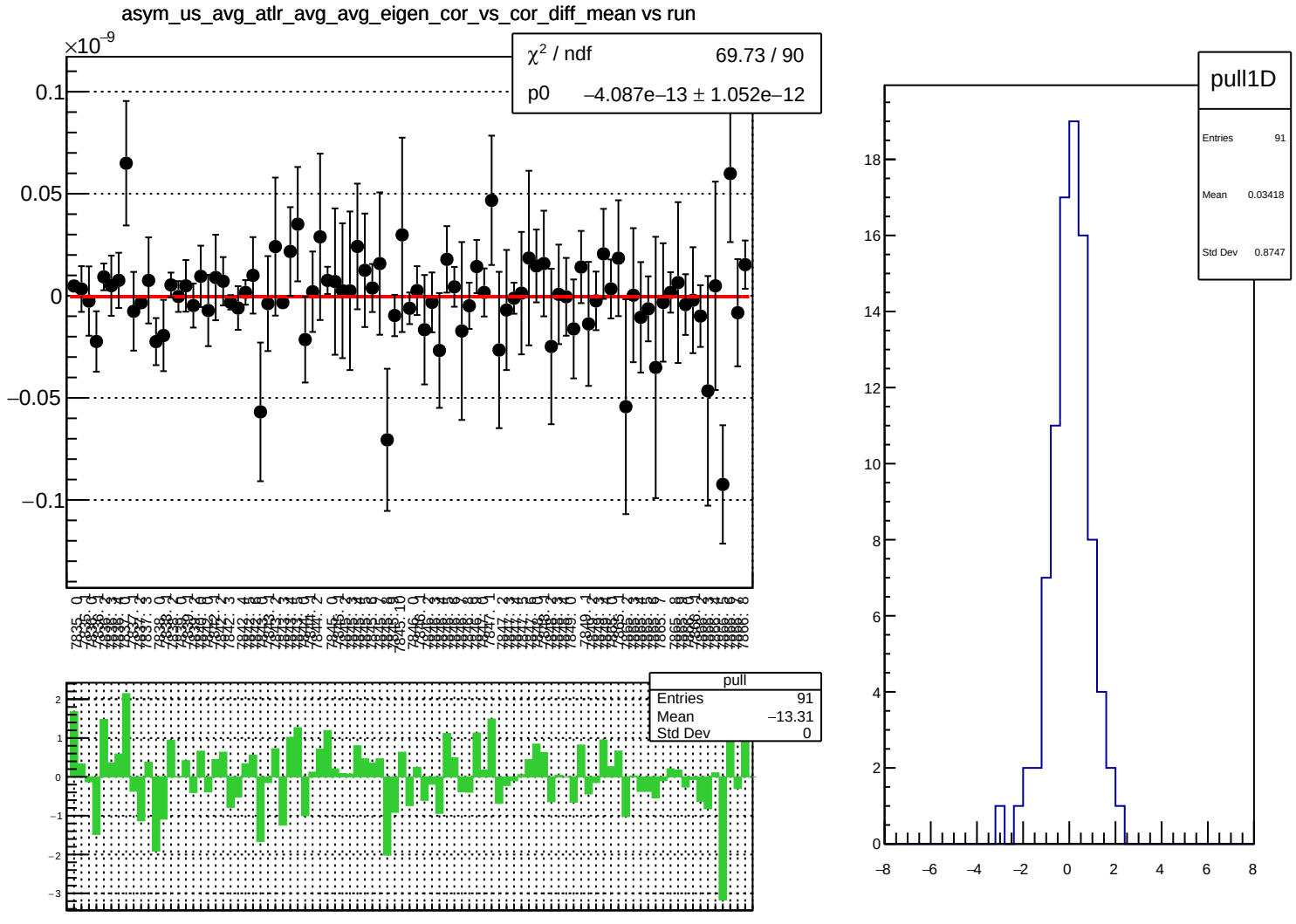

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90 / 90
p0 0.1684 ± 0.2982
pull
Entries 91
Mean 230.5
Std Dev 0

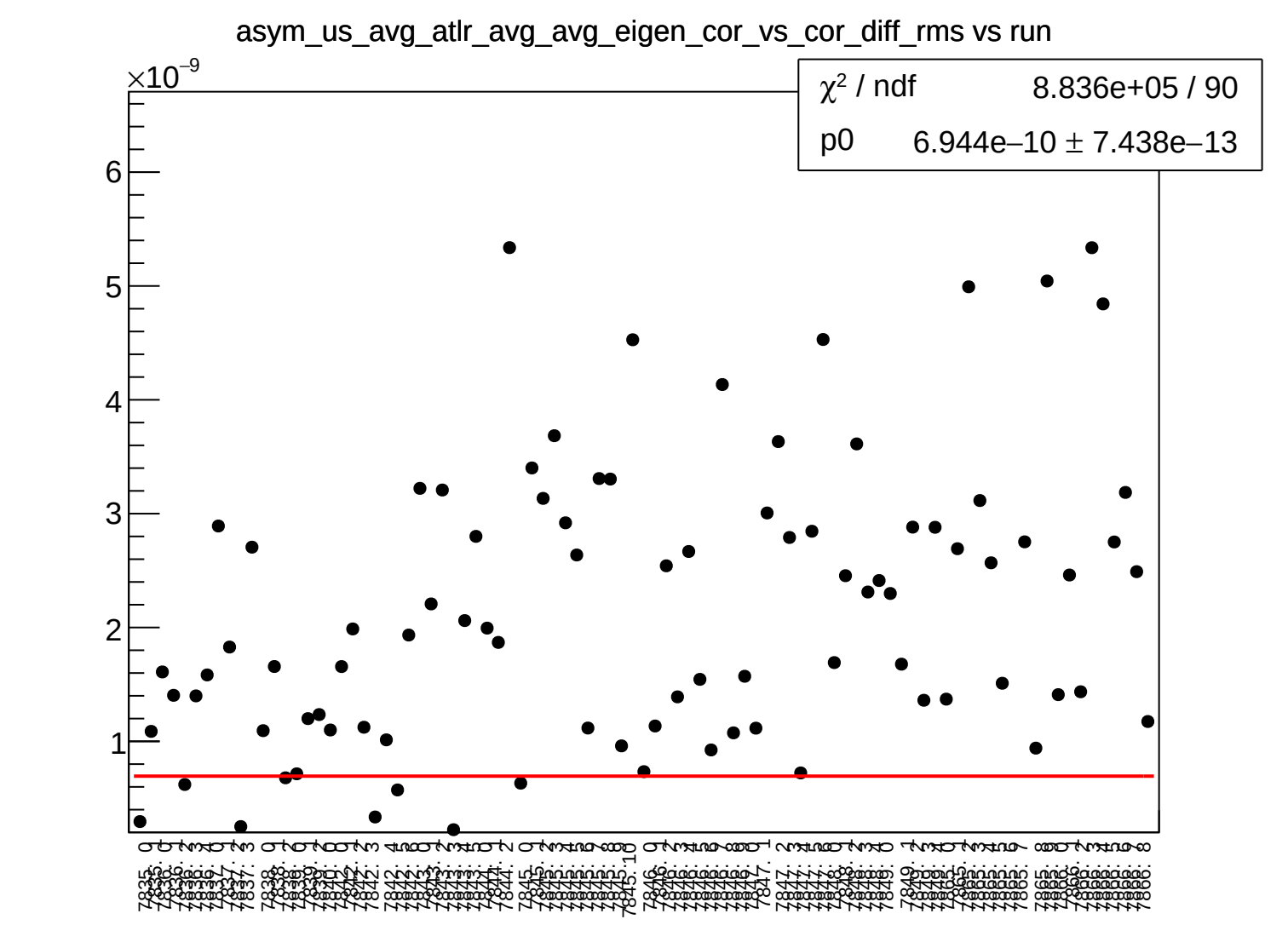

pull1D
Entries 91
Mean −0.00657
Std Dev 0.9945

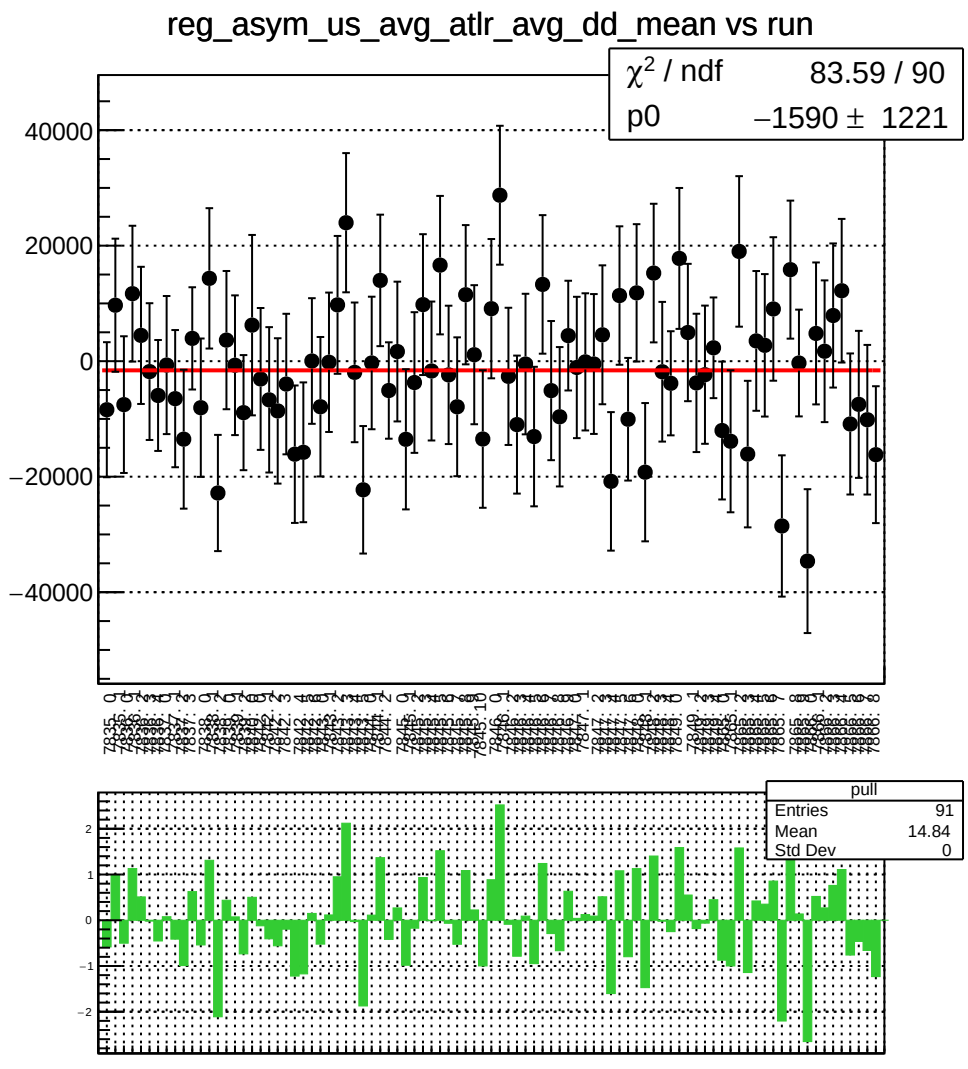

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.614e+05 / 90
p0 266.2 ± 0.2109
1400
1200
1000
800
600
400
200

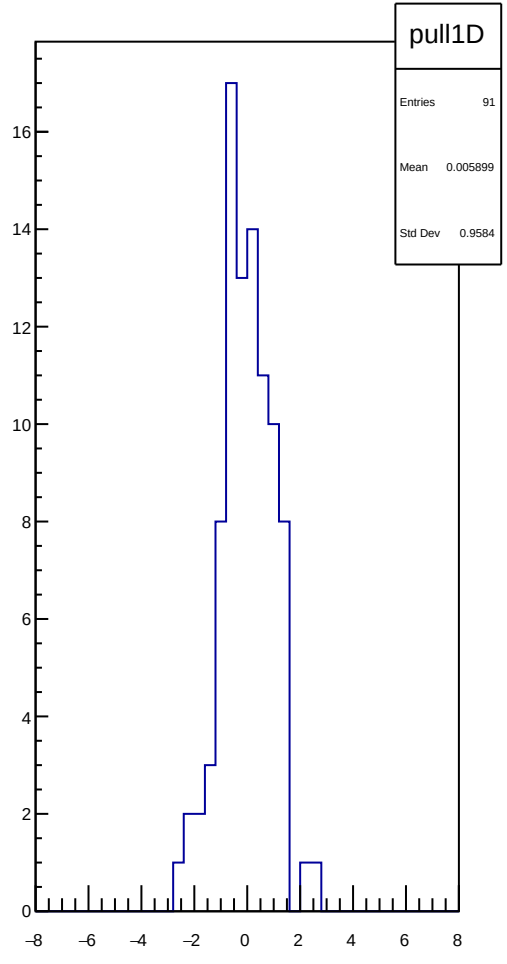

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90 / 90
p0 0.1684 ± 0.2982
pull
Entries 91
Mean 230.5
Std Dev 0
pull1D
Entries 91
Mean −0.00657
Std Dev 0.9945

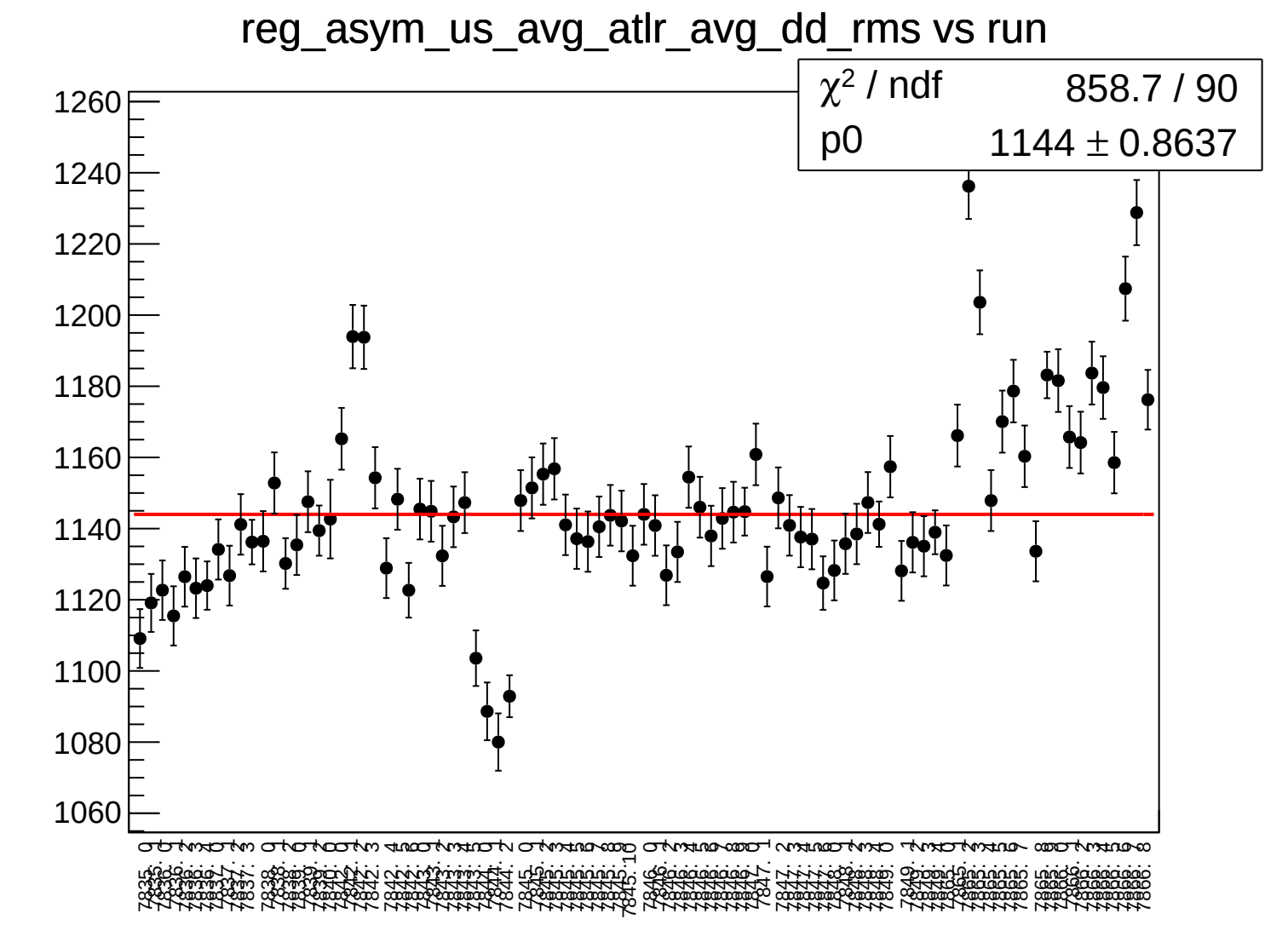

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.614e+05 / 90
p0 266.2 ± 0.2109
1400
1200
1000
800
600
400
200

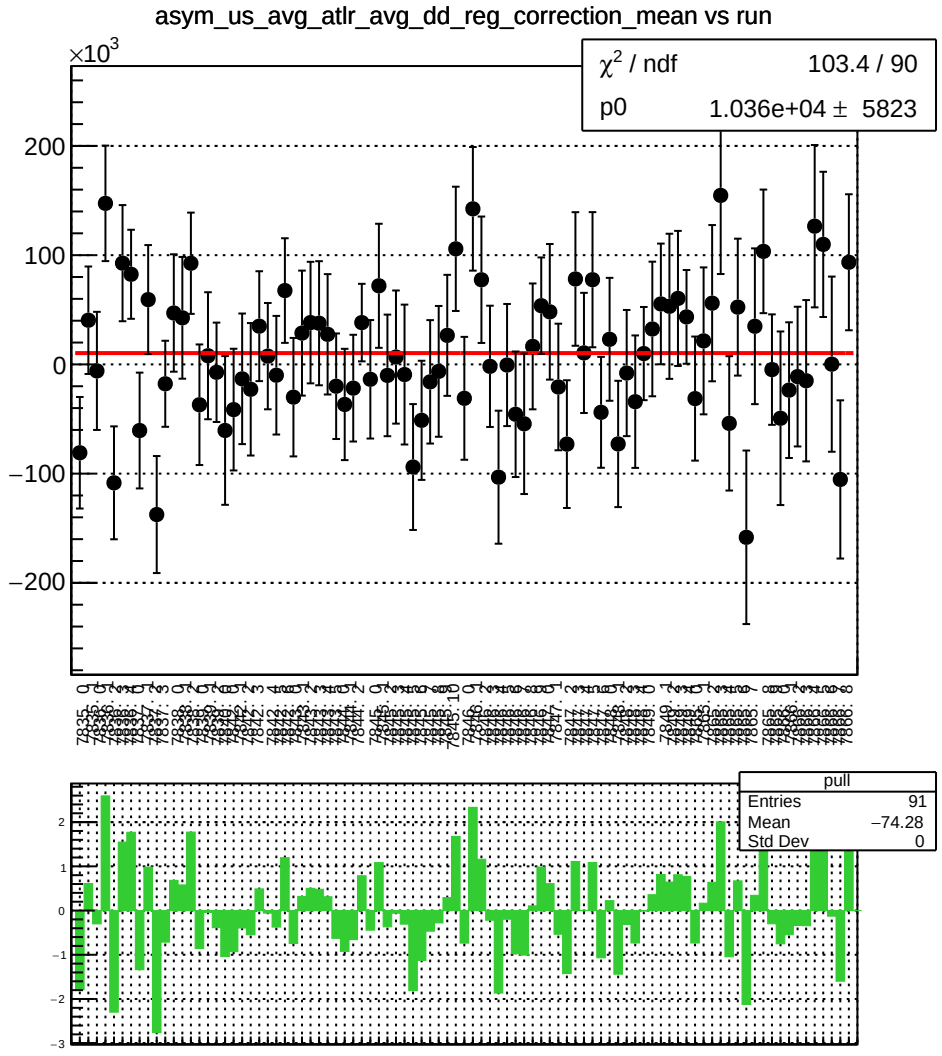

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 69.73 / 90
p0 −4.087e−13 ± 1.052e−12
pull
Entries 91
Mean −13.31
Std Dev 0
pull1D
Entries 91
Mean 0.03418
Std Dev 0.8747

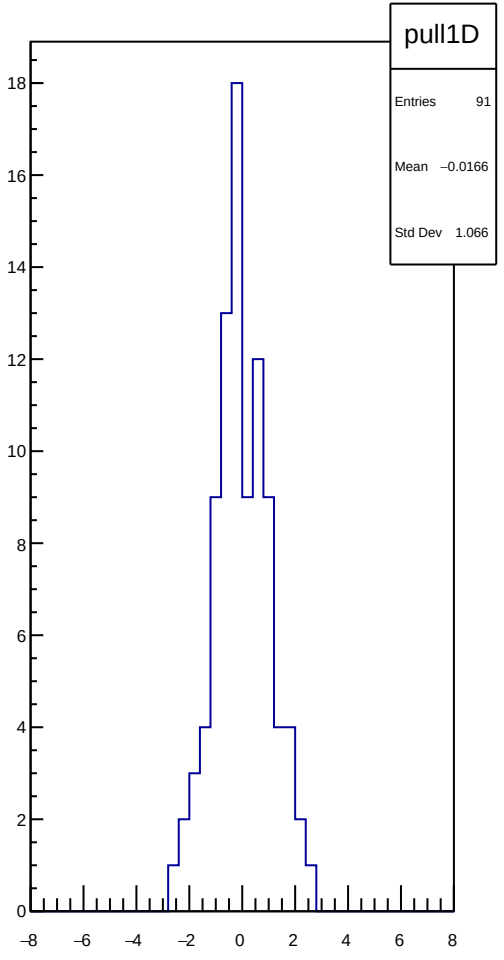

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.836e+05 / 90
p0 6.944e−10 ± 7.438e−13
6
5
4
3
2
1

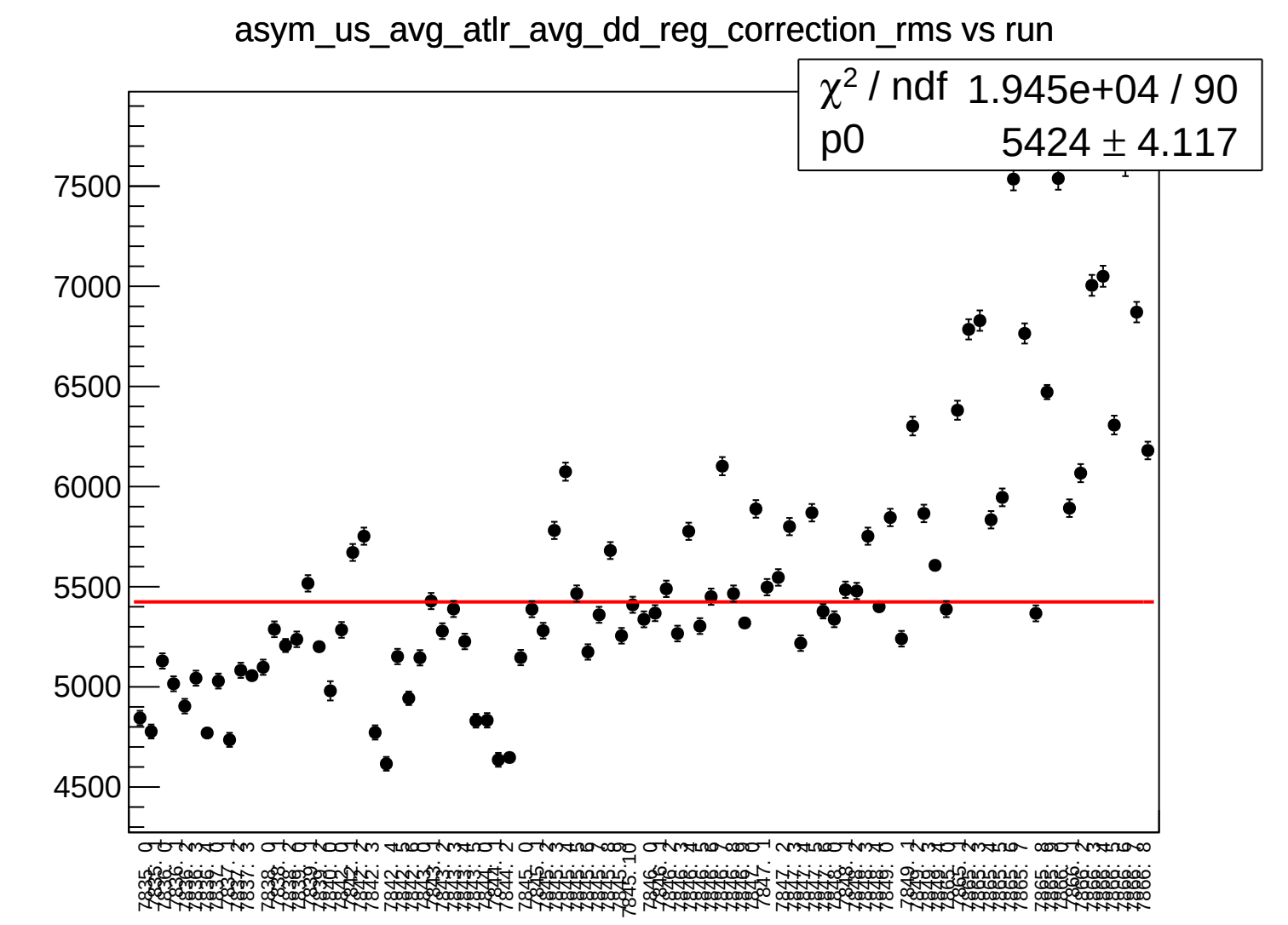

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.59 / 90
p0 −1590 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 14.84
Std Dev 0
2
1
0
−1
−2

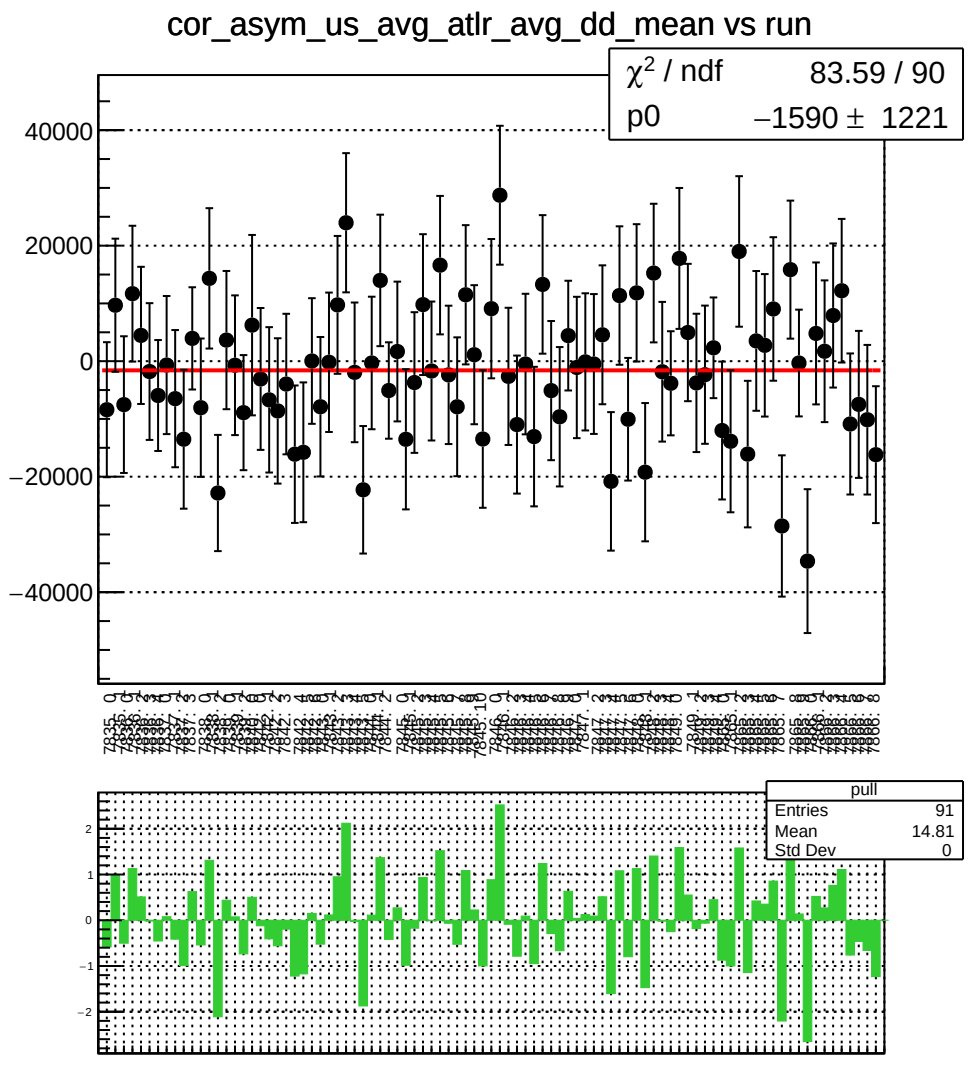

pull1D
Entries 91
Mean 0.005899
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

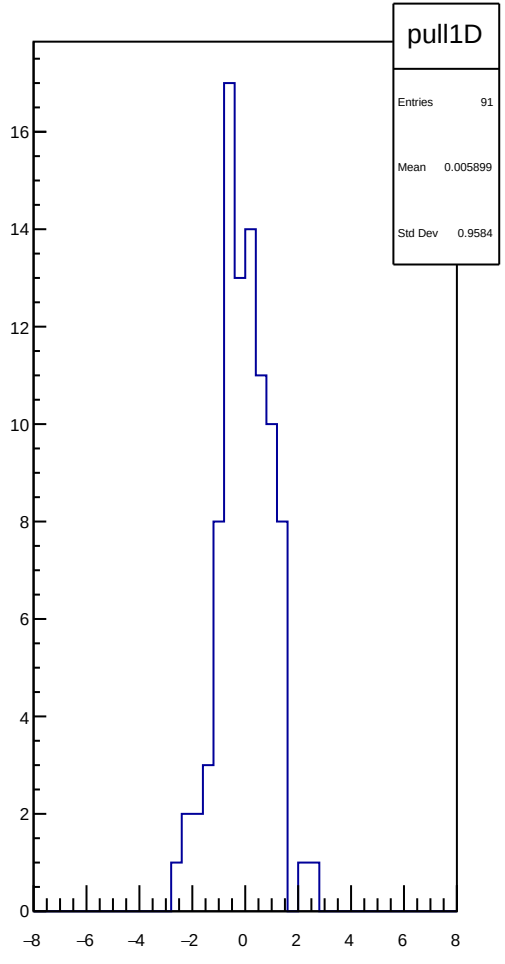

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 858.7 / 90
p0 1144 ± 0.8637
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

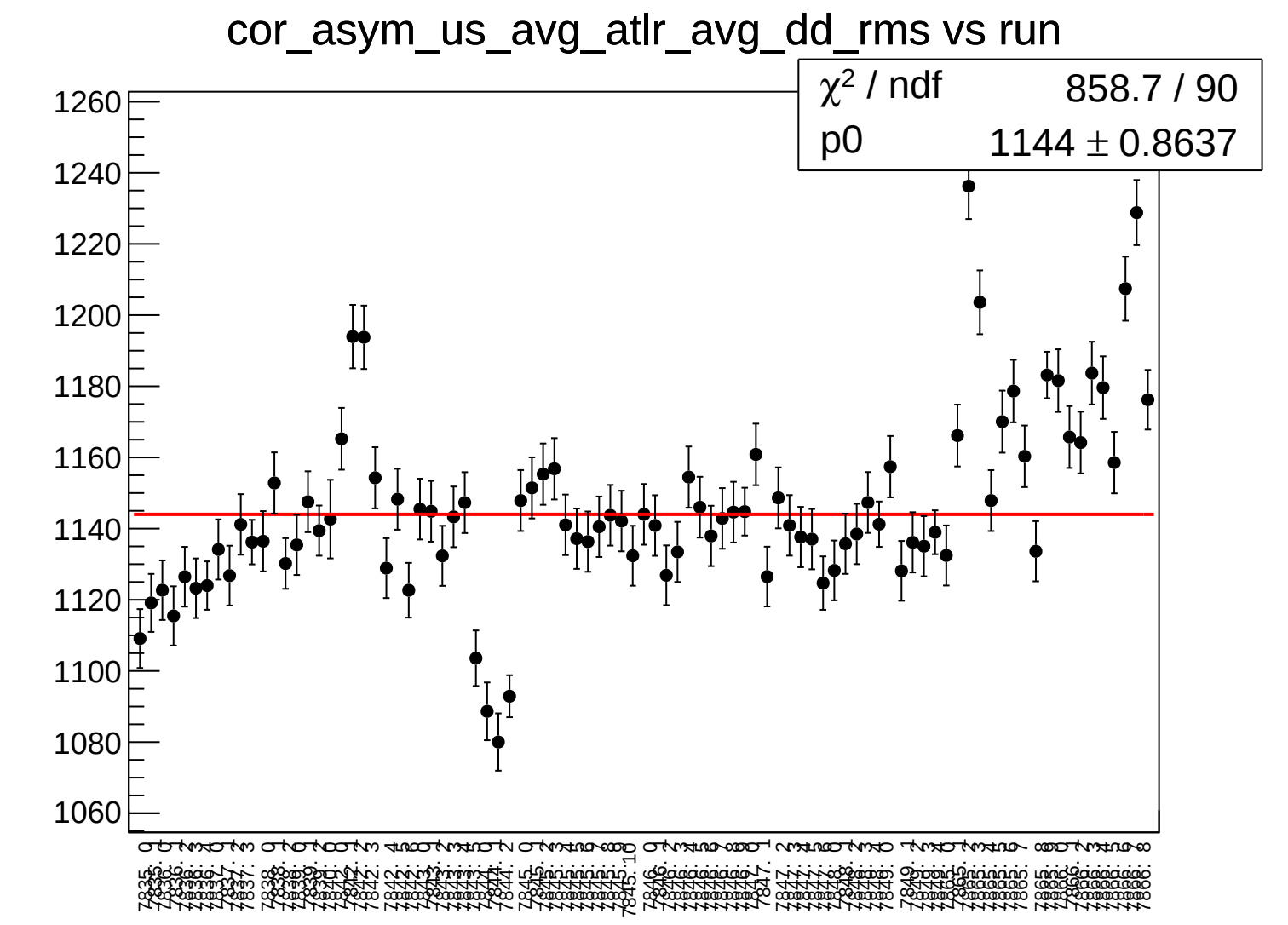

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 103.4 / 90
p0 1.036e+04 ± 5823
200
100
0
−100
−200
pull
Entries 91
Mean −74.28
Std Dev 0
2
1
0
−1
−2
−3

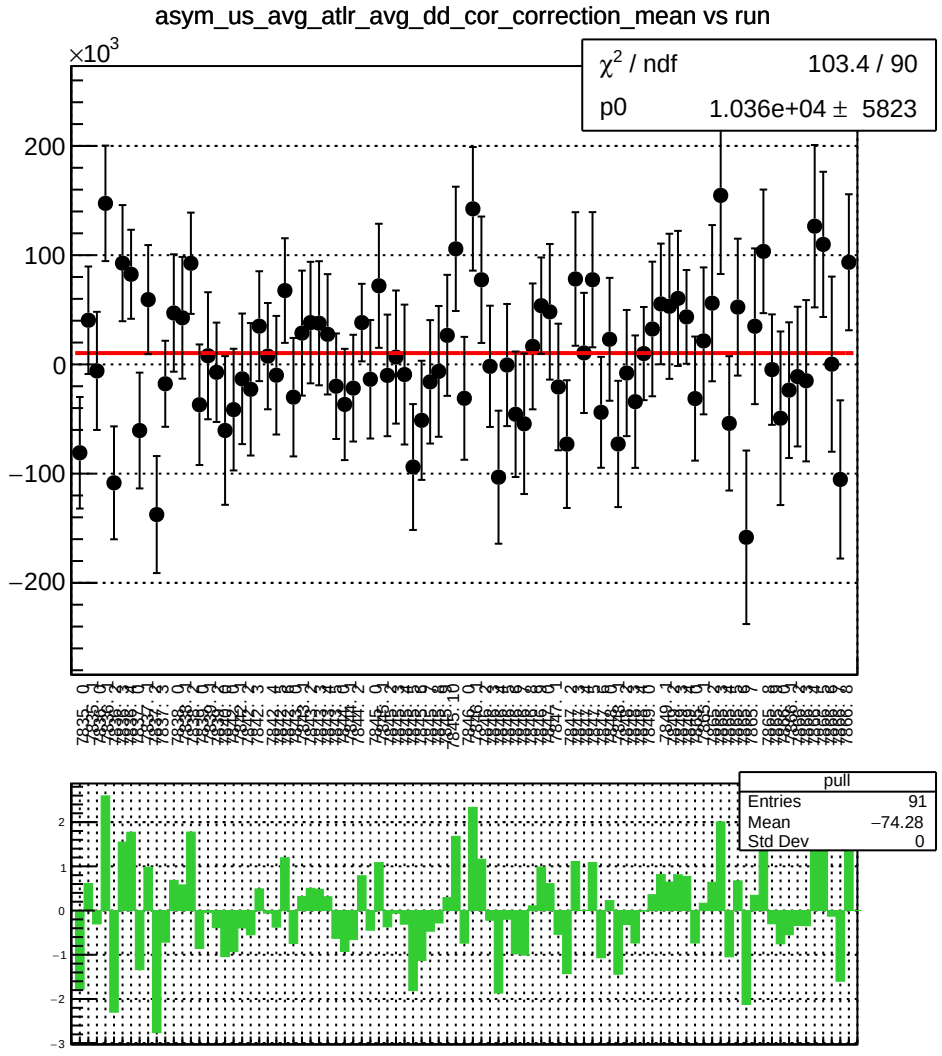

pull1D
Entries 91
Mean −0.0166
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

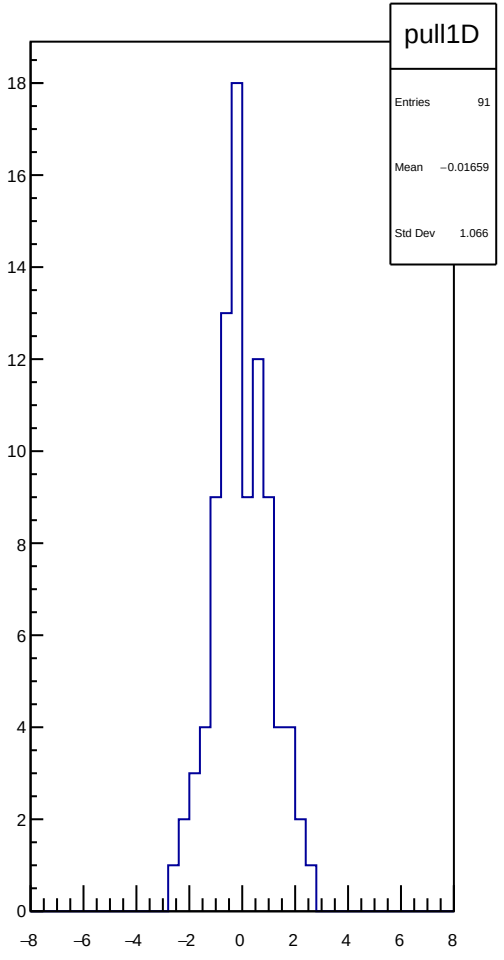

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.945e+04 / 90
p0 5424 ± 4.117
7500
7000
6500
6000
5500
5000
4500

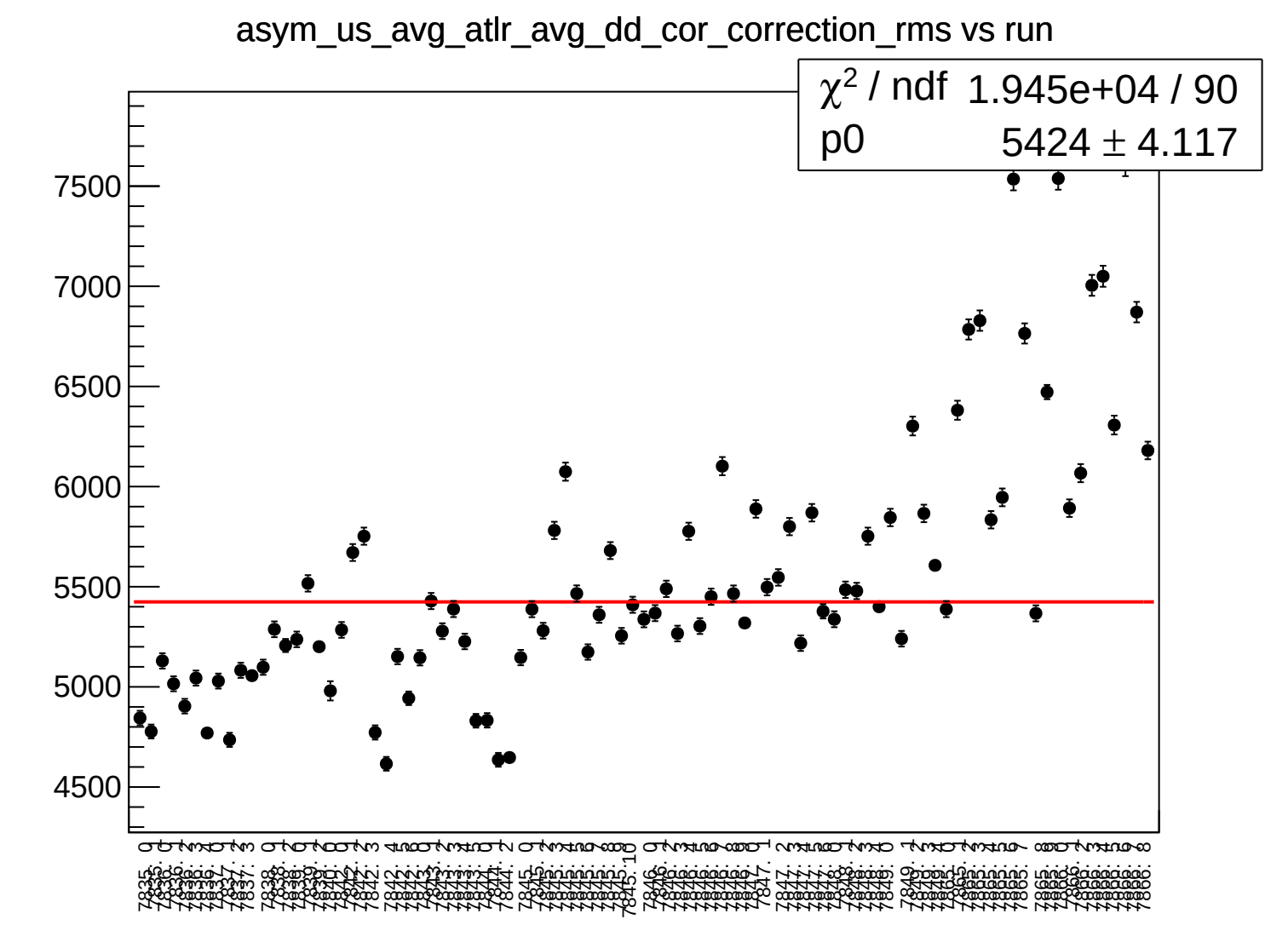

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.59 / 90
p0 −1590 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 14.81
Std Dev 0
2
1
0
−1
−2

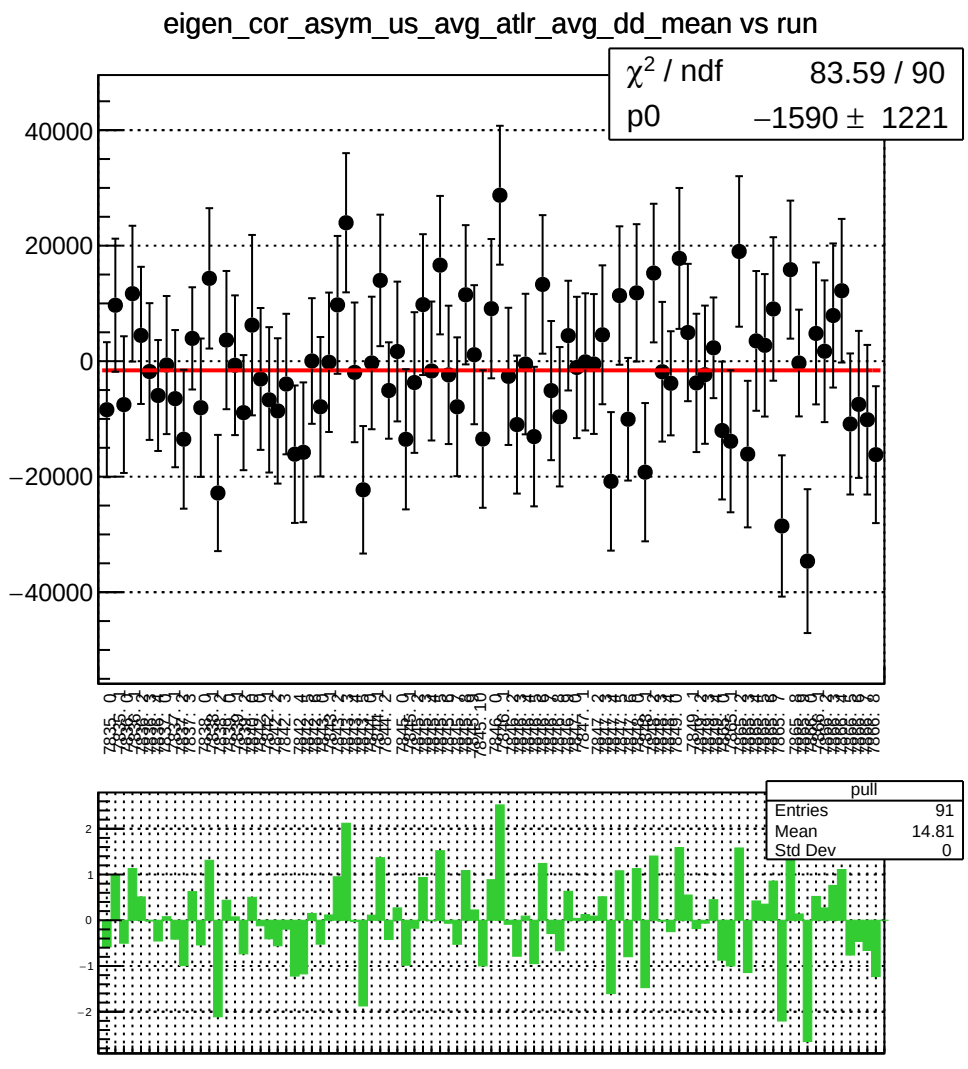

pull1D
Entries 91
Mean 0.005899
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

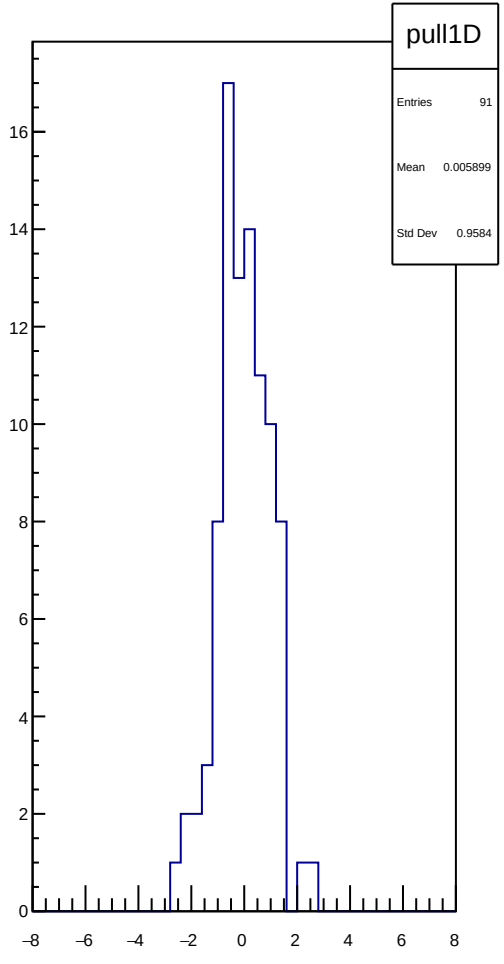

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 858.7 / 90
p0 1144 ± 0.8637
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

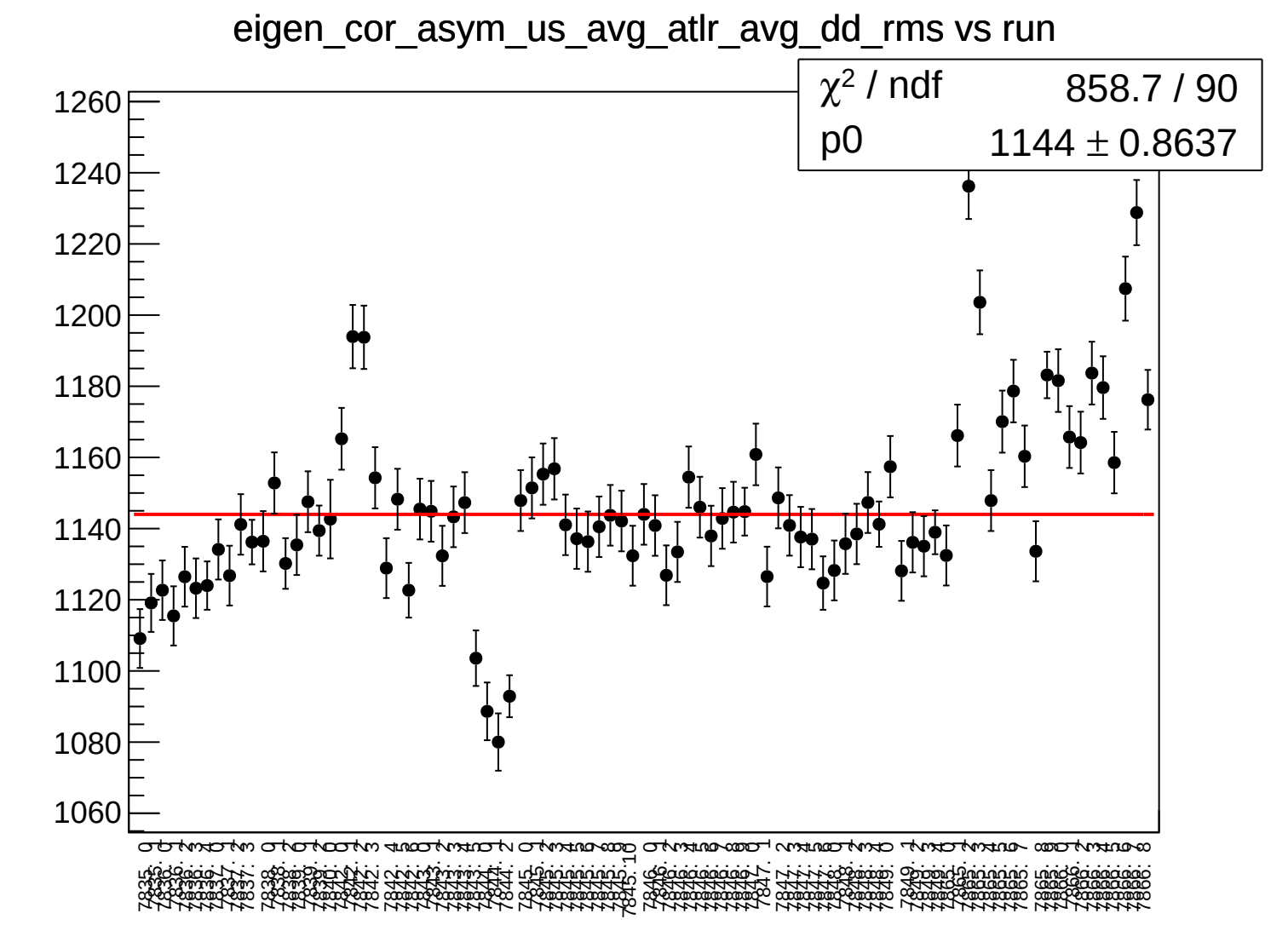

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 90
p0 1.036e+04 ± 5823
200
100
0
−100
−200
pull
Entries 91
Mean −74.28
Std Dev 0
2
1
0
−1
−2
−3

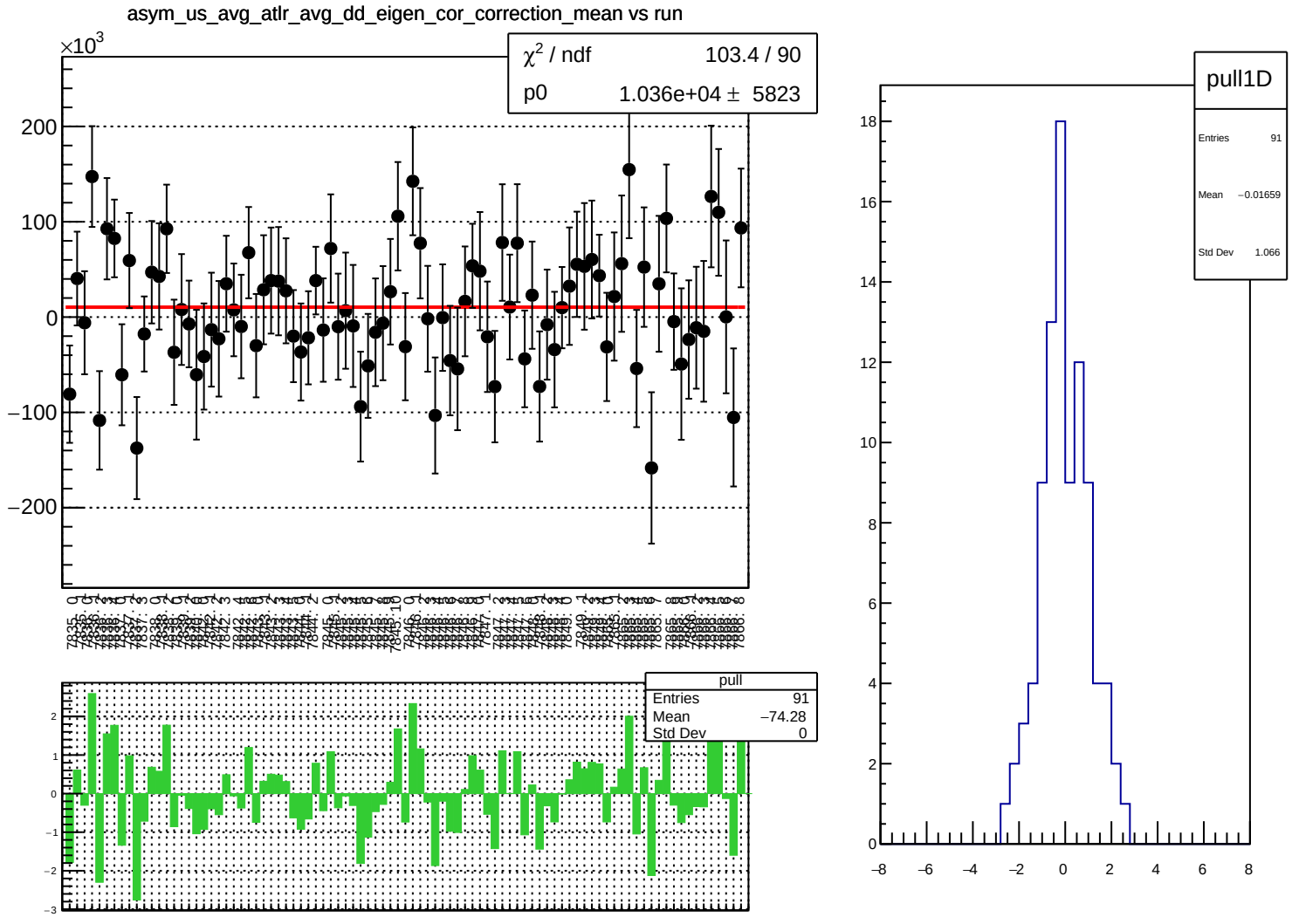

pull1D
Entries 91
Mean −0.01659
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

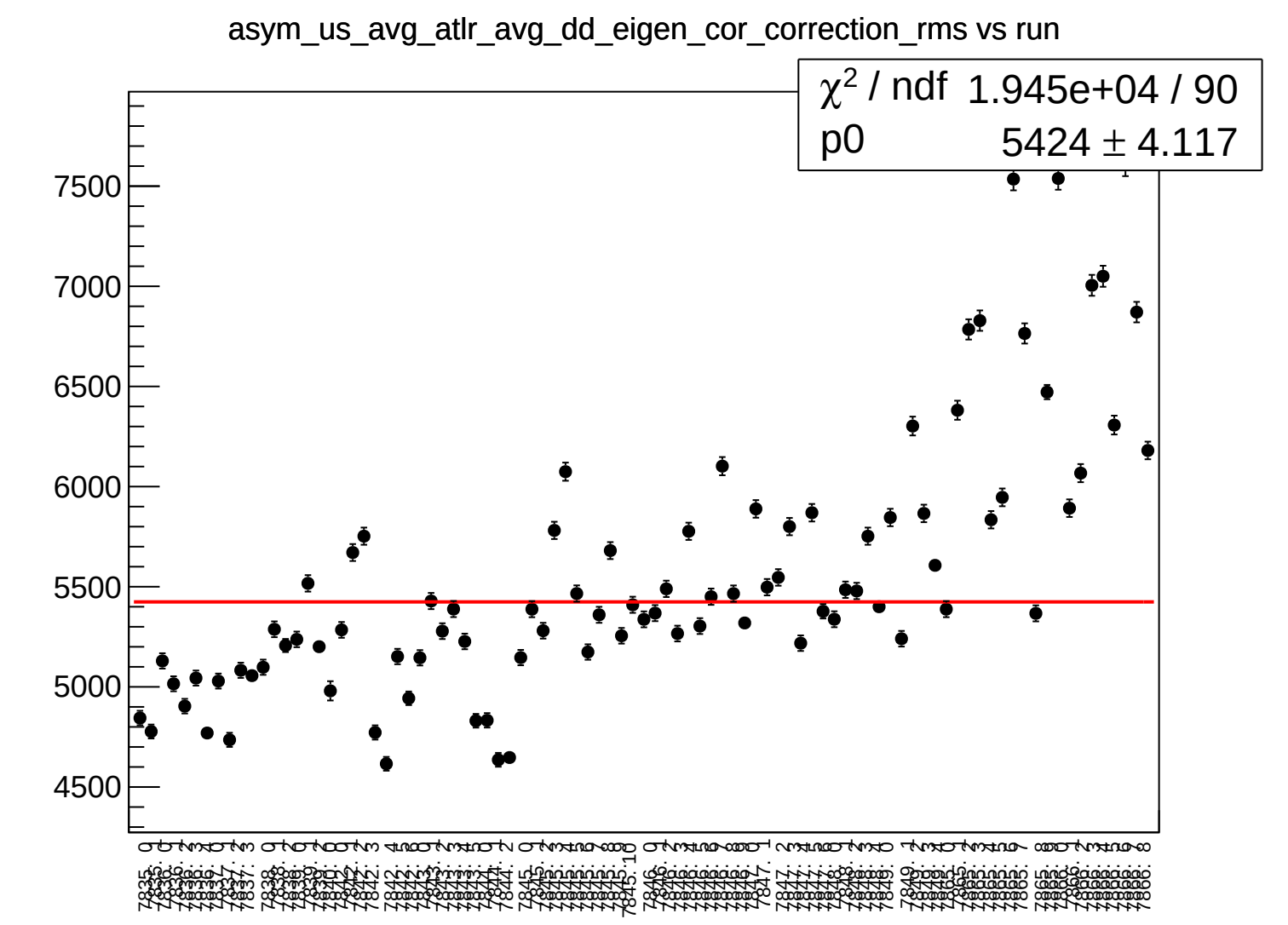

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.945e+04 / 90
p0 5424 ± 4.117
7500
7000
6500
6000
5500
5000
4500

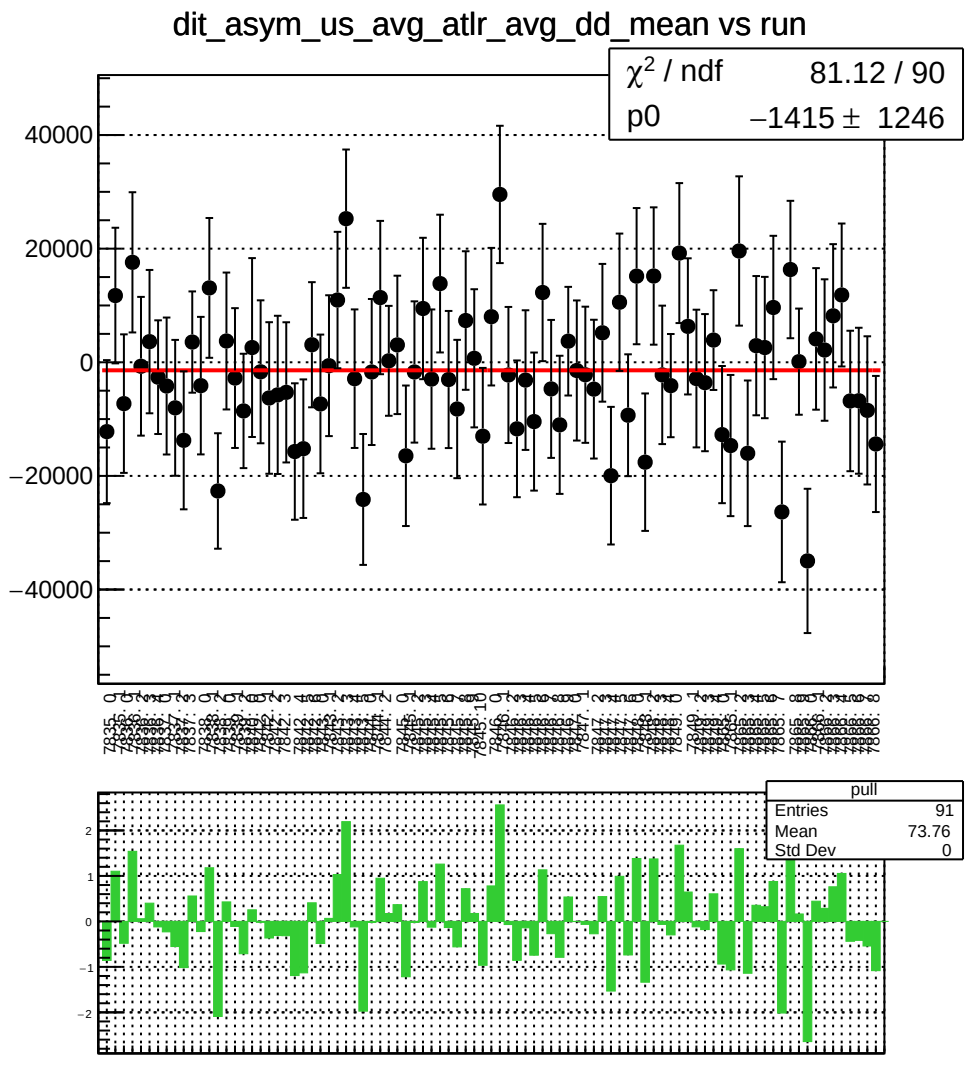

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.59 / 90
p0 −1590 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 14.81
Std Dev 0
2
1
0
−1
−2

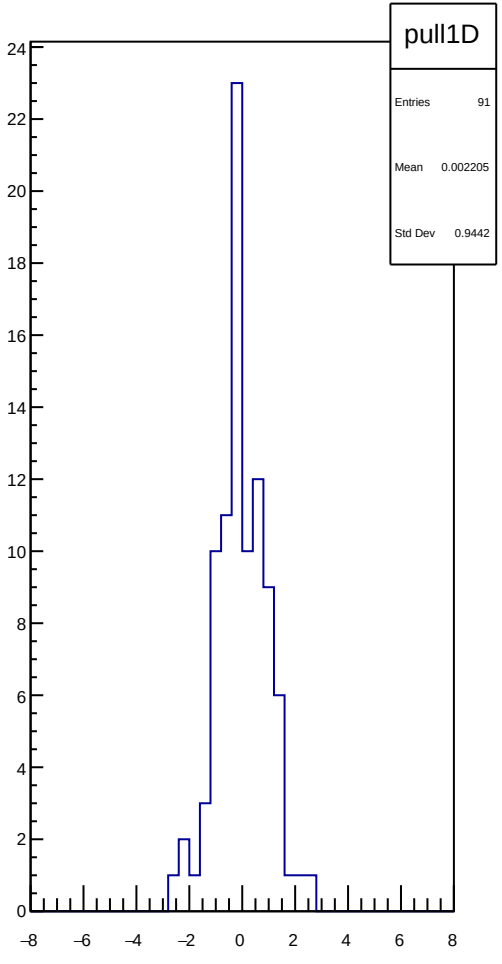

pull1D
Entries 91
Mean 0.005899
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

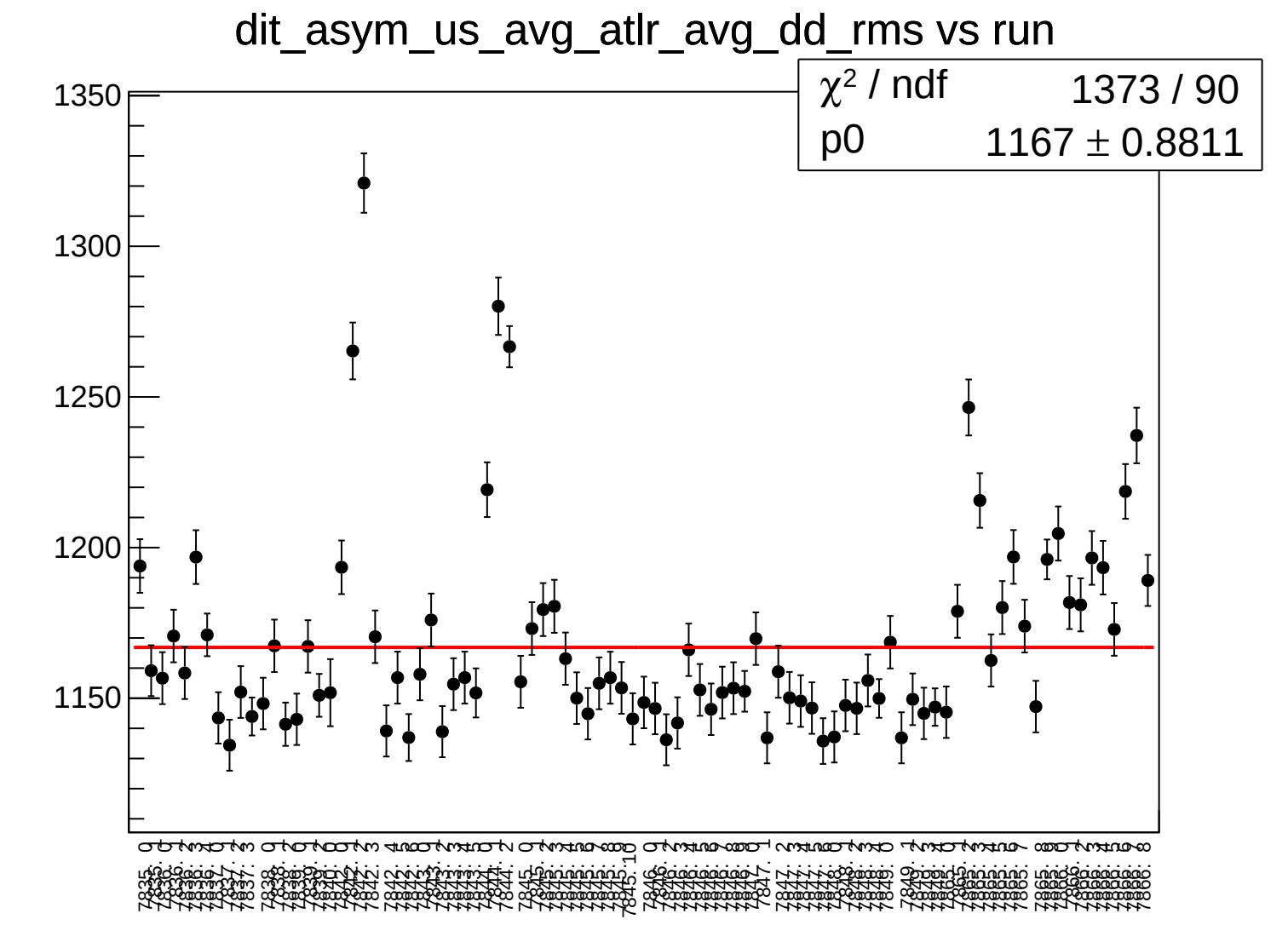

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 858.7 / 90
p0 1144 ± 0.8637
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

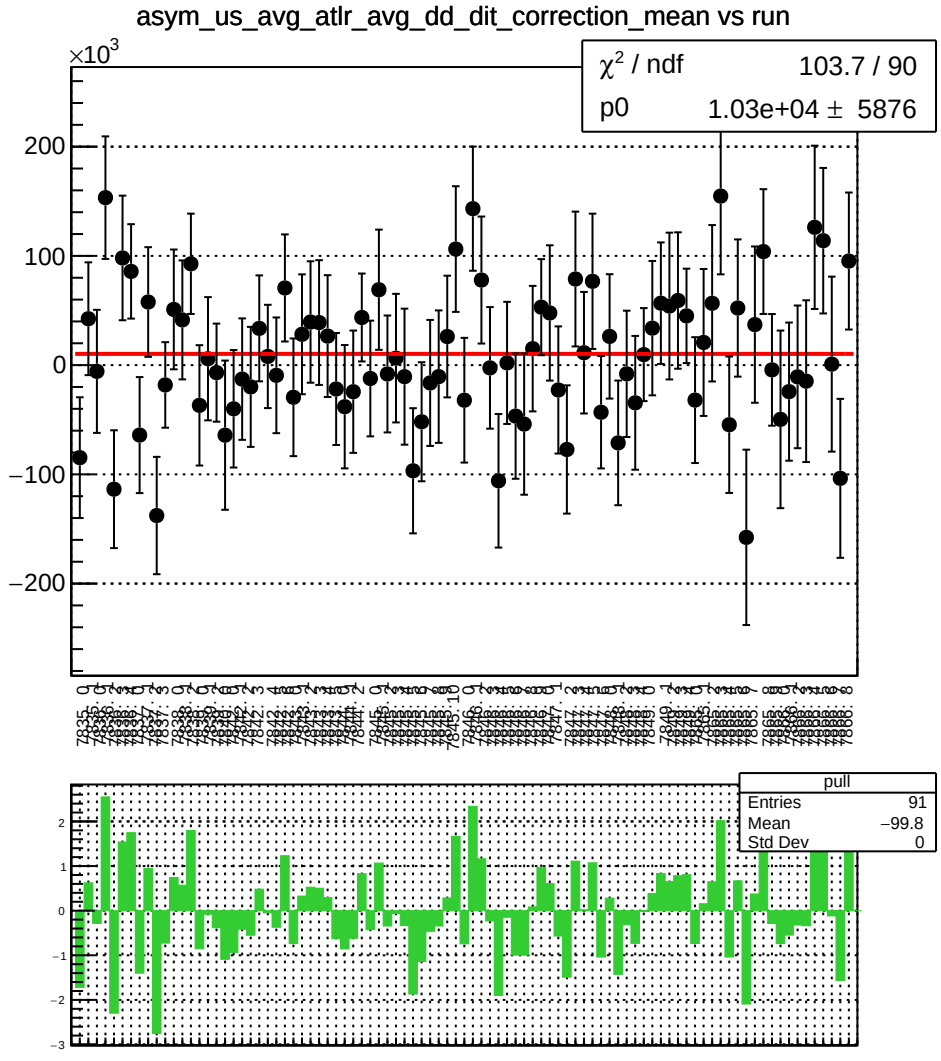

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.4 / 90
p0 1.036e+04 ± 5823
200
100
0
−100
−200
pull
Entries 91
Mean −74.28
Std Dev 0
pull1D
Entries 91
Mean −0.01659
Std Dev 1.066

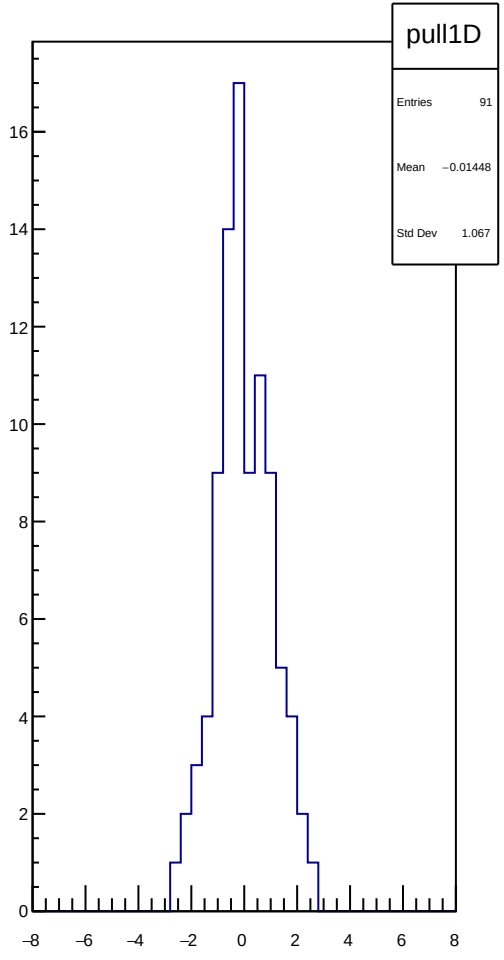

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.945e+04 / 90
p0 5424 ± 4.117
7500
7000
6500
6000
5500
5000
4500

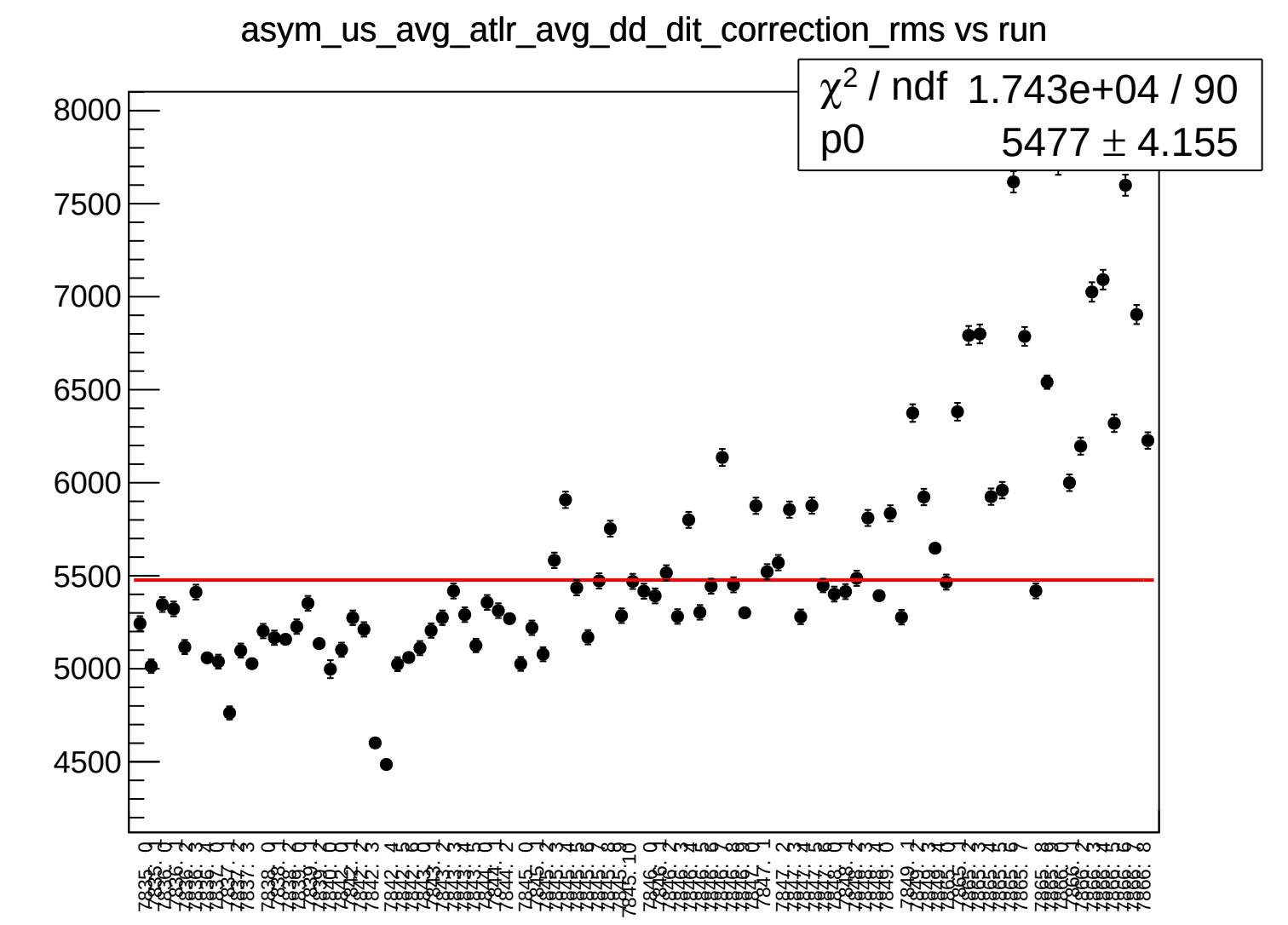

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 81.12 / 90
p0 −1415 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 73.76
Std Dev 0
2
1
0
−1
−2

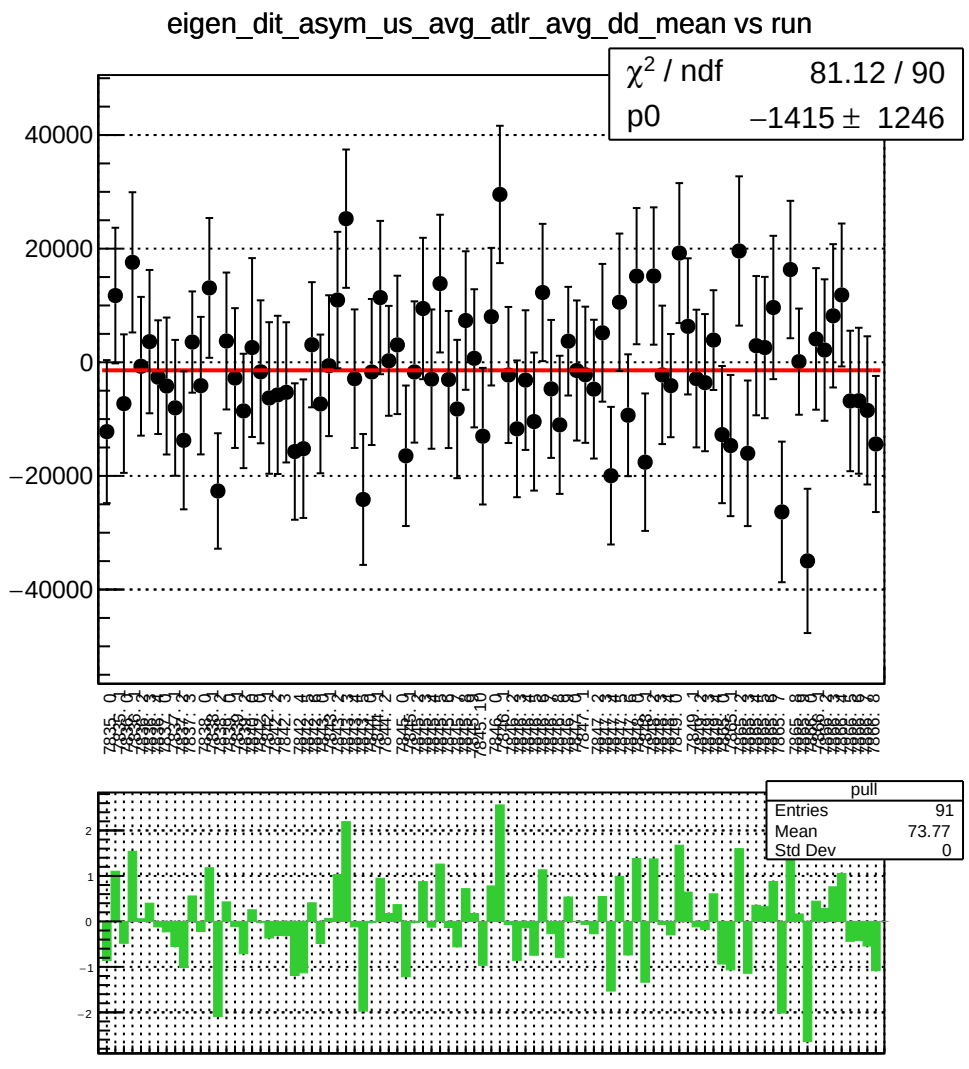

pull1D
Entries 91
Mean 0.002205
Std Dev 0.9442
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

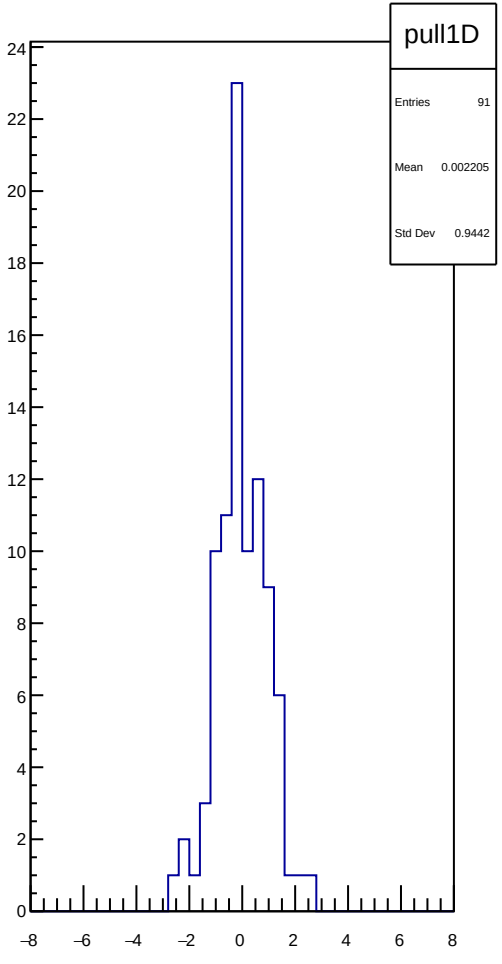

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1373 / 90
p0 1167 ± 0.8811
1350
1300
1250
1200
1150

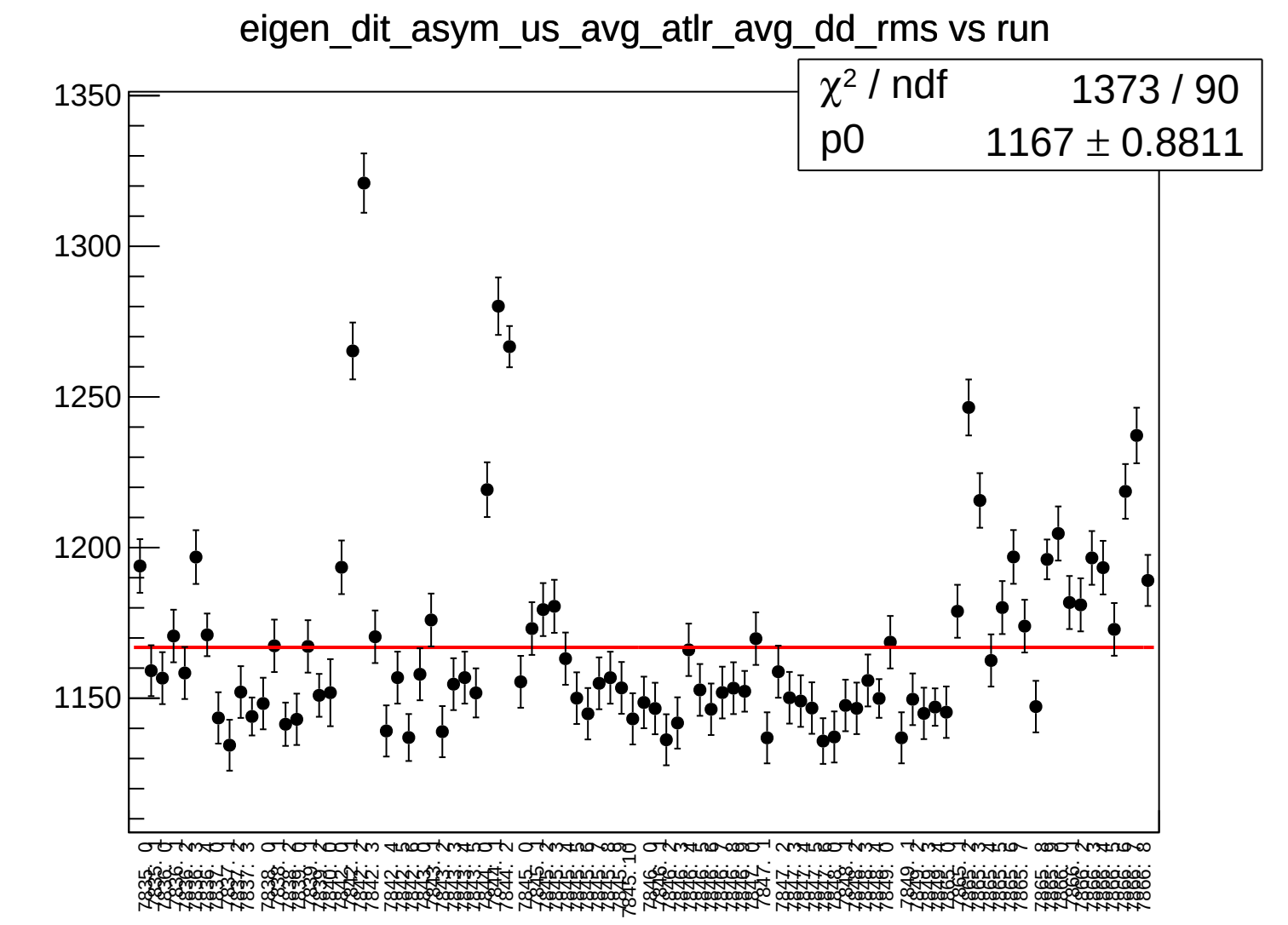

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 103.7 / 90
p0 1.03e+04 ± 5876
200
100
0
−100
−200
pull
Entries 91
Mean −99.8
Std Dev 0
2
1
0
−1
−2
−3

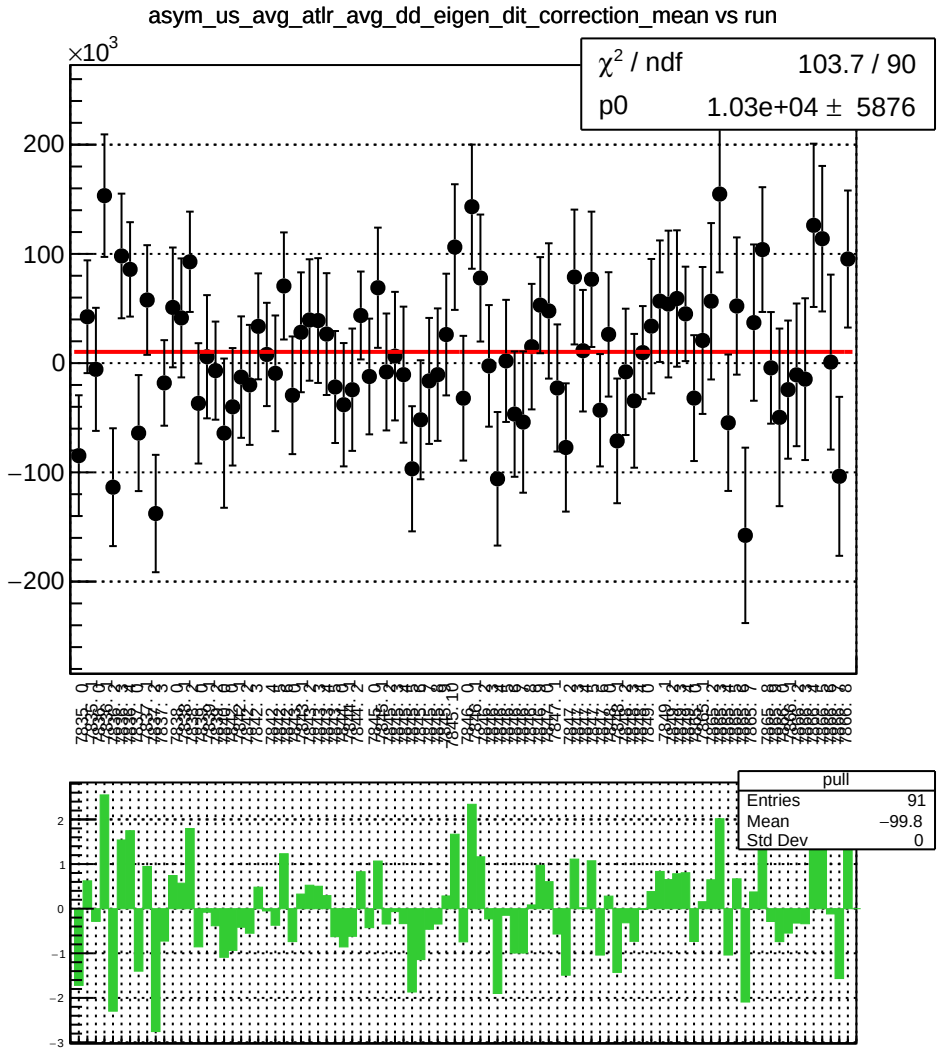

pull1D
Entries 91
Mean −0.01448
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

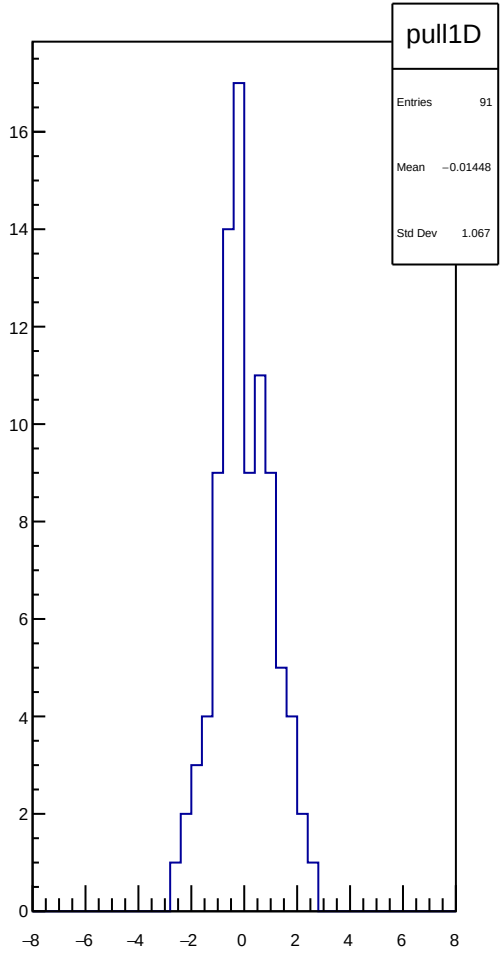

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.743e+04 / 90
p0 5477 ± 4.155
8000
7500
7000
6500
6000
5500
5000
4500

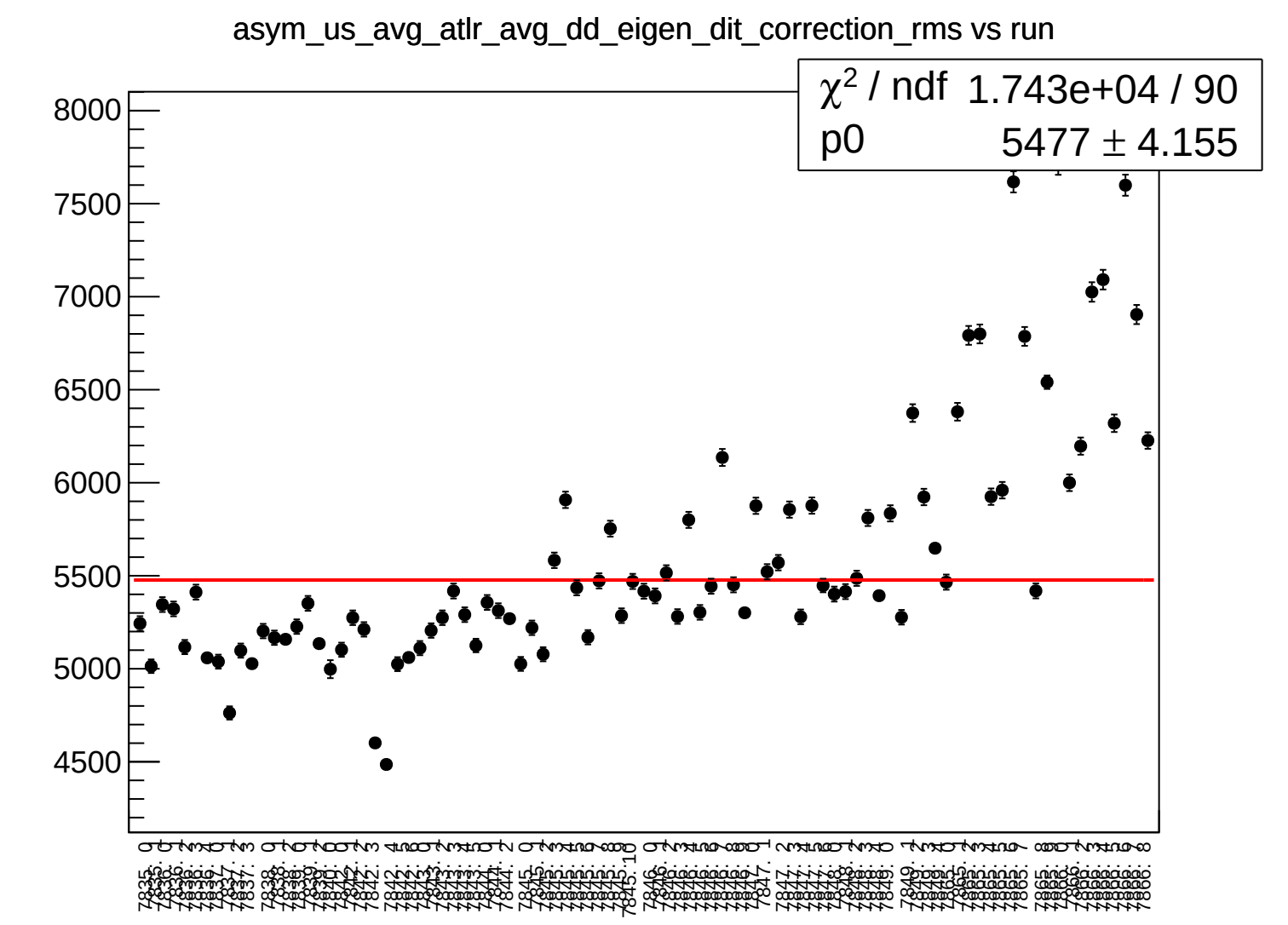

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 81.12 / 90
p0 −1415 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 73.77
Std Dev 0
2
1
0
−1
−2

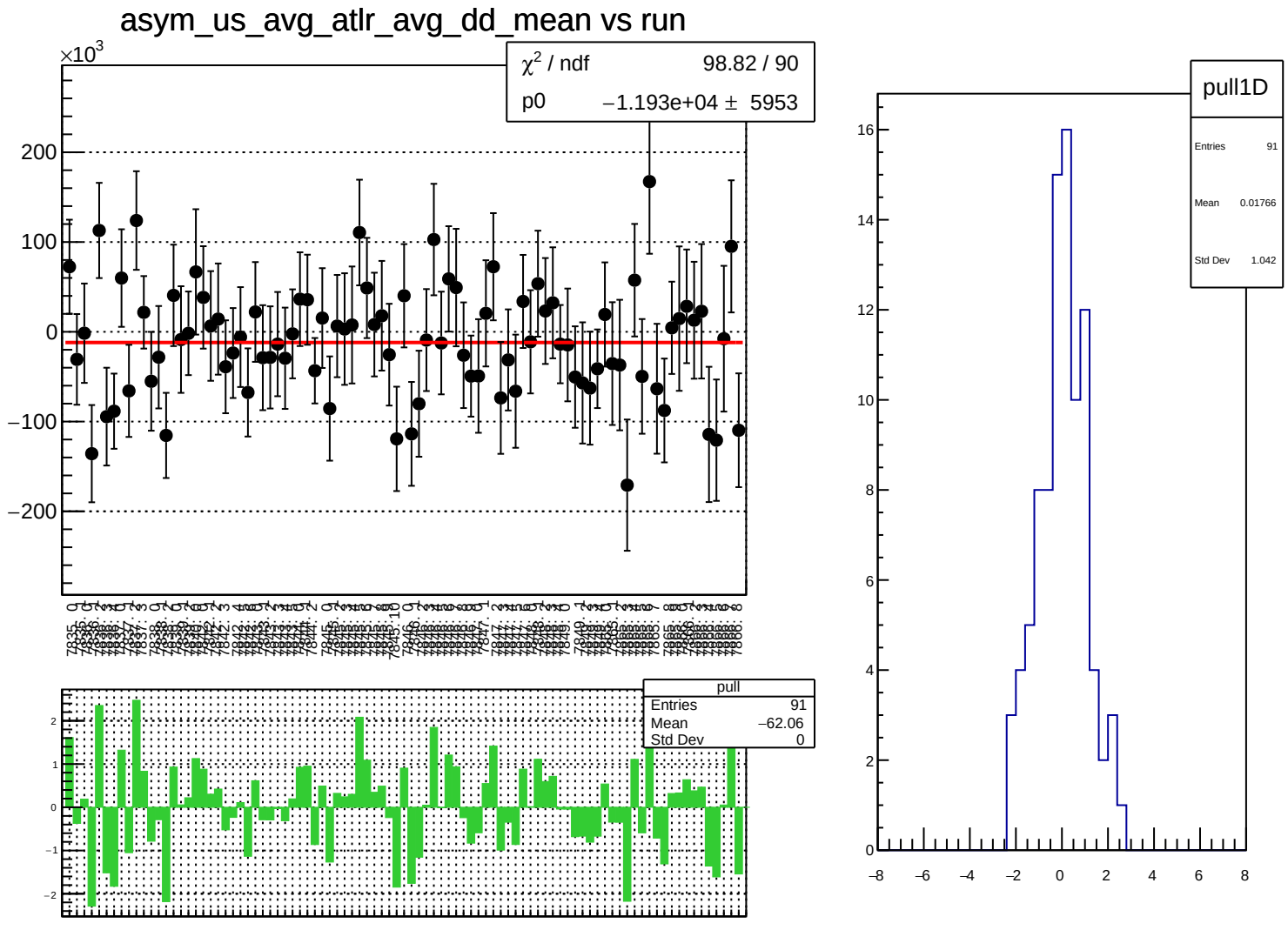

pull1D
Entries 91
Mean 0.002205
Std Dev 0.9442
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

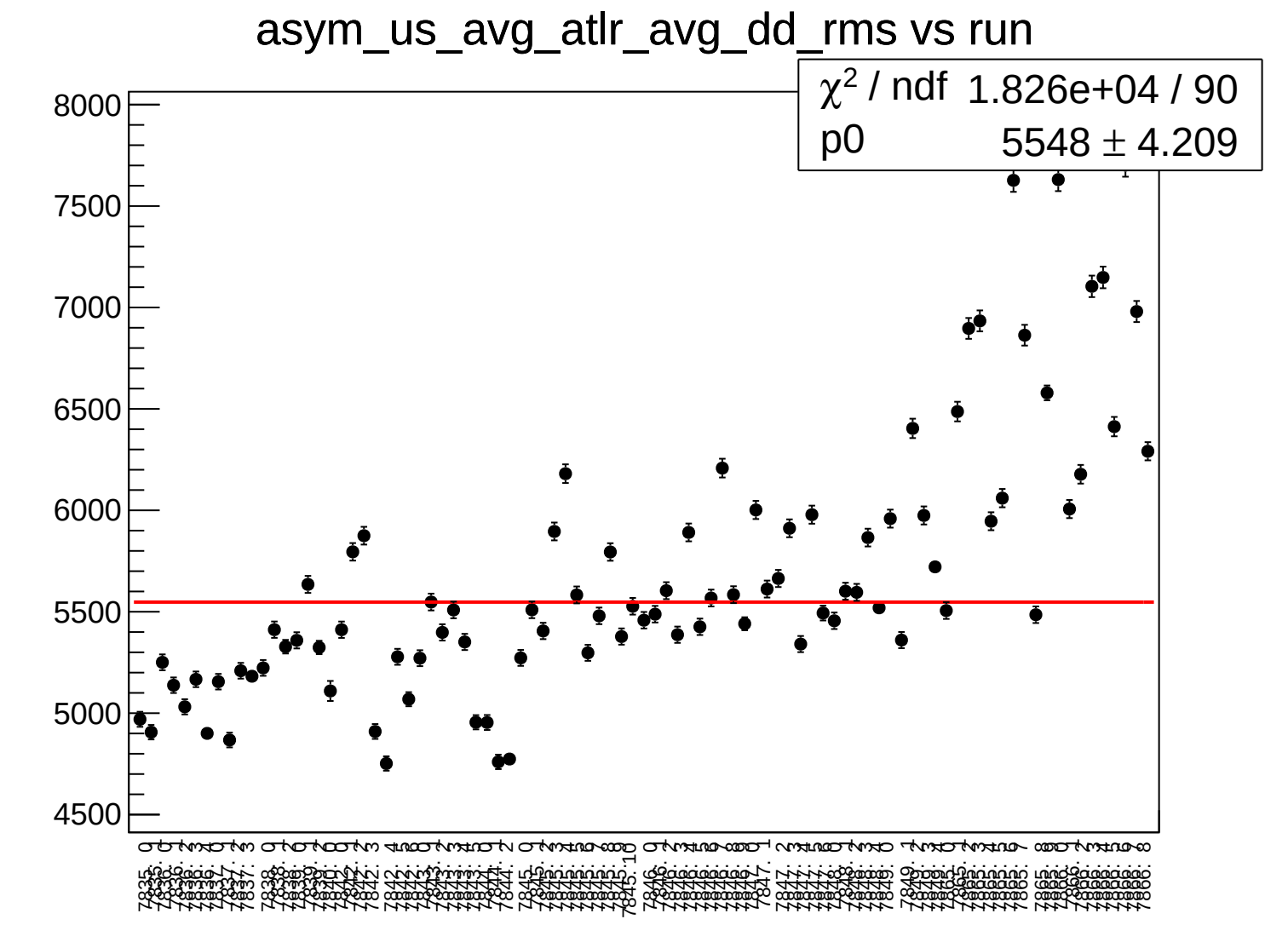

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1373 / 90
p0 1167 ± 0.8811
1350
1300
1250
1200
1150

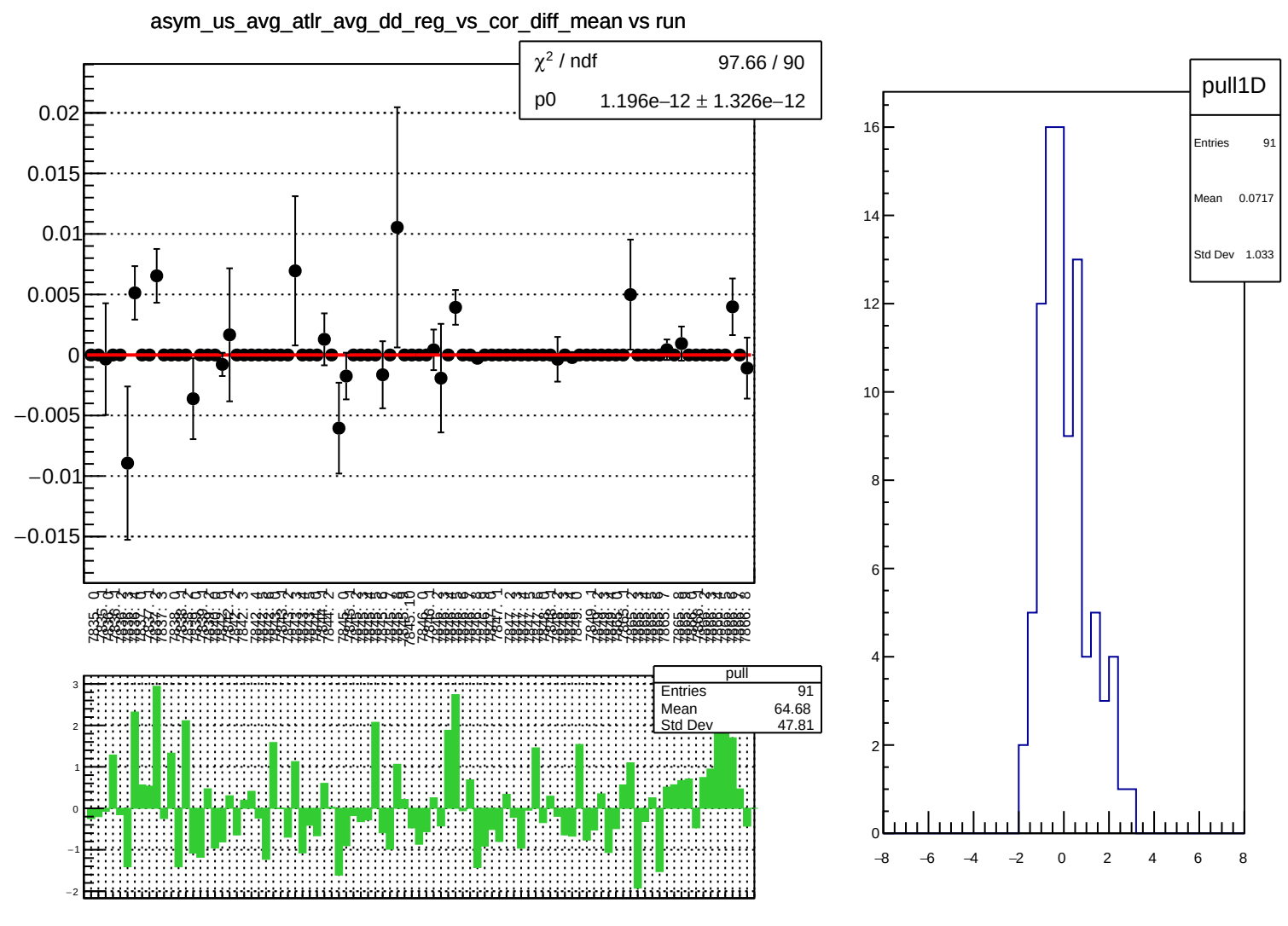

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.7 / 90
p0 1.03e+04 ± 5876
200
100
0
−100
−200
pull
Entries 91
Mean −99.8
Std Dev 0
2
1
0
−1
−2
−3

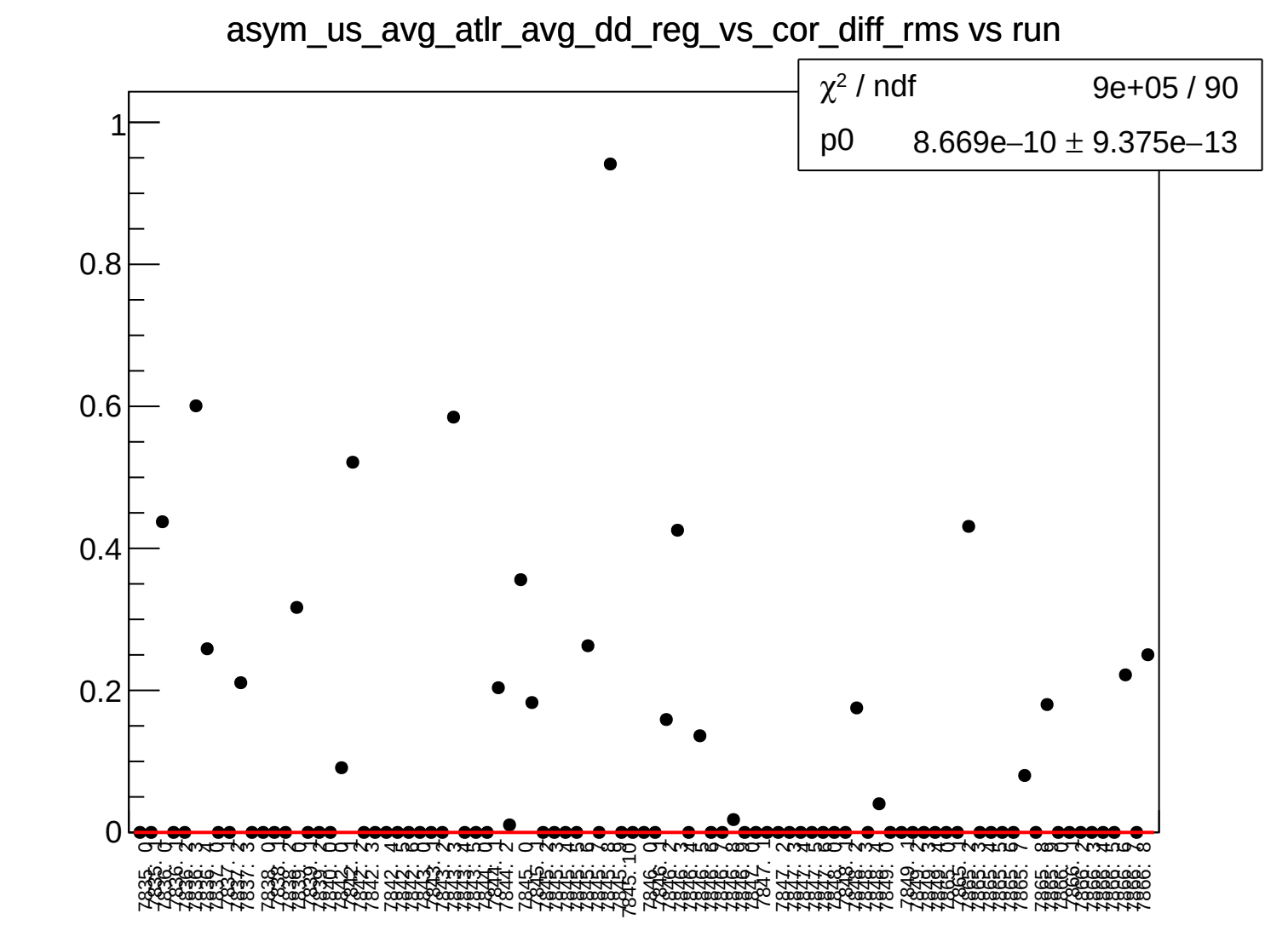

pull1D
Entries 91
Mean −0.01448
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

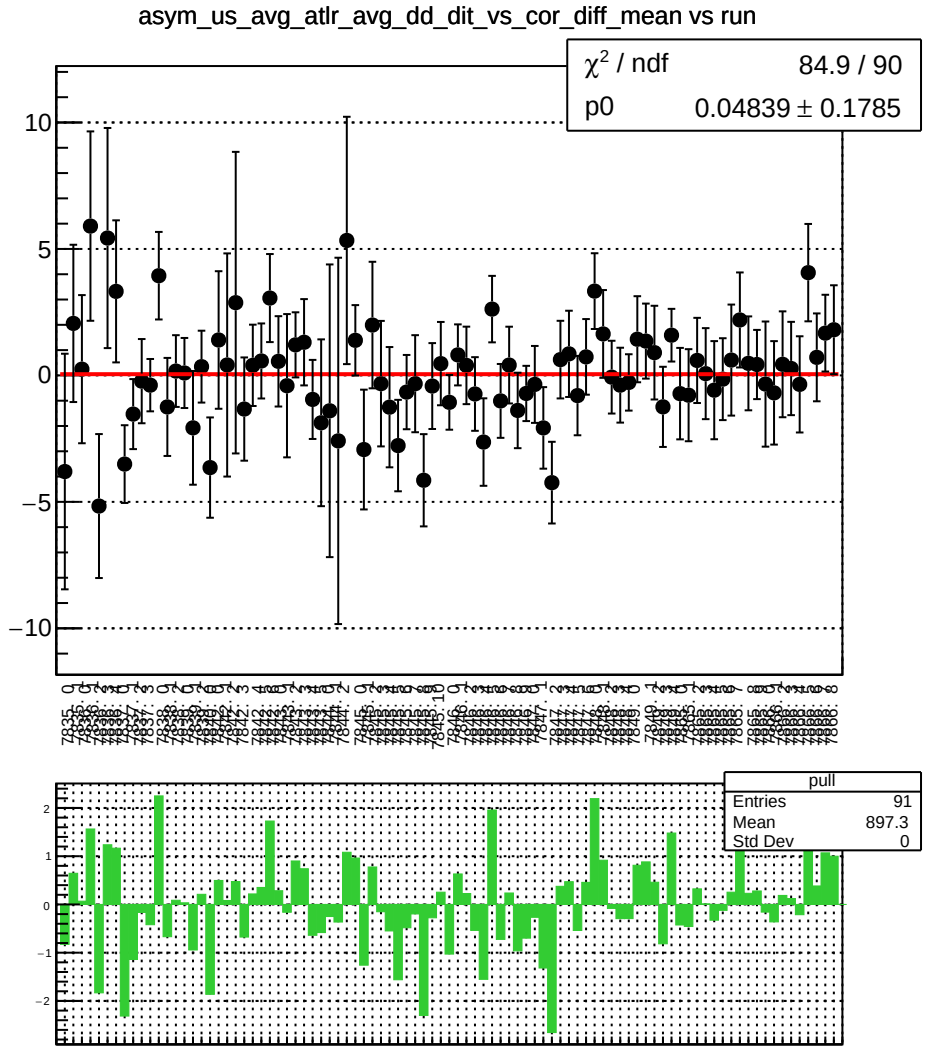

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.743e+04 / 90
p0 5477 ± 4.155
8000
7500
7000
6500
6000
5500
5000
4500

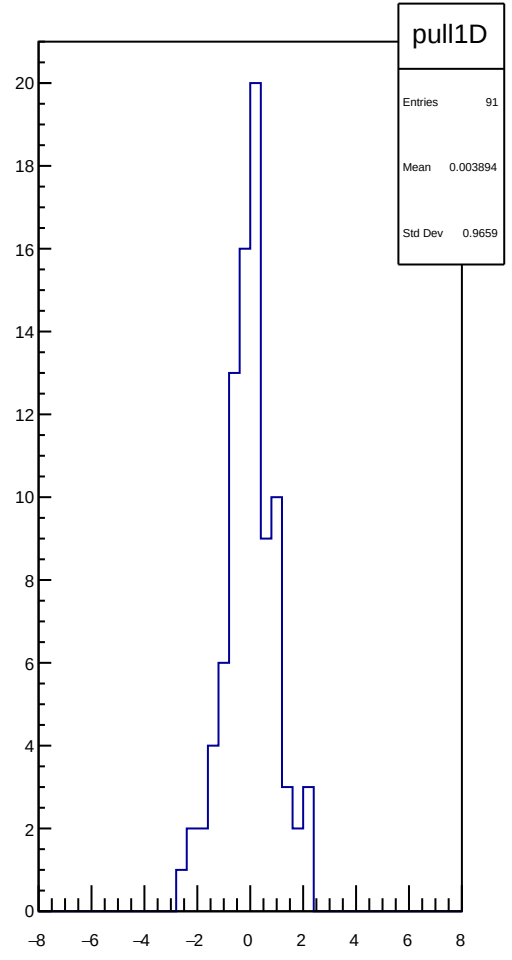

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 98.82 / 90
p0 −1.193e+04 ± 5953
200
100
0
−100
−200
pull
Entries 91
Mean −62.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01766
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

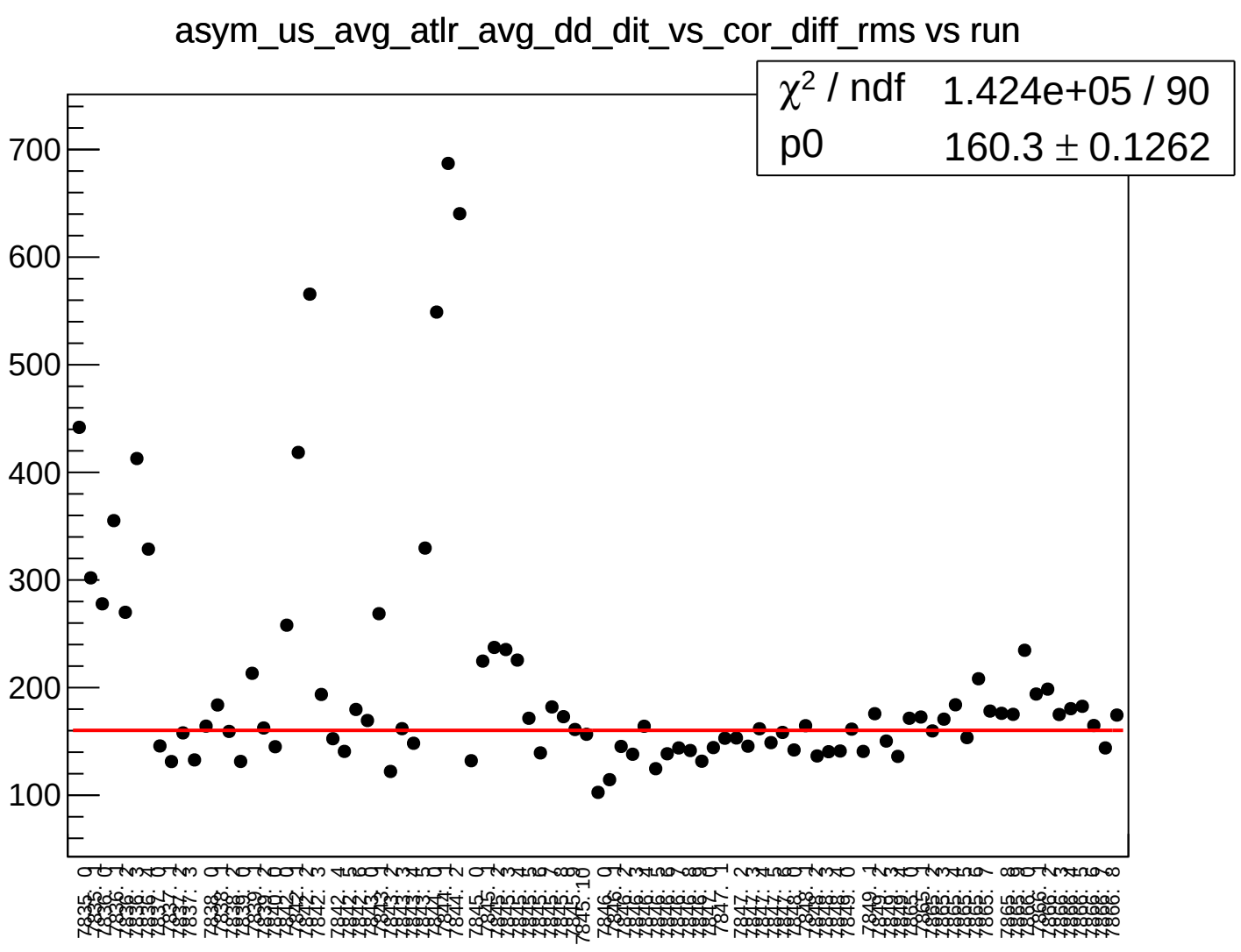

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.826e+04 / 90
p0 5548 ± 4.209
8000
7500
7000
6500
6000
5500
5000
4500

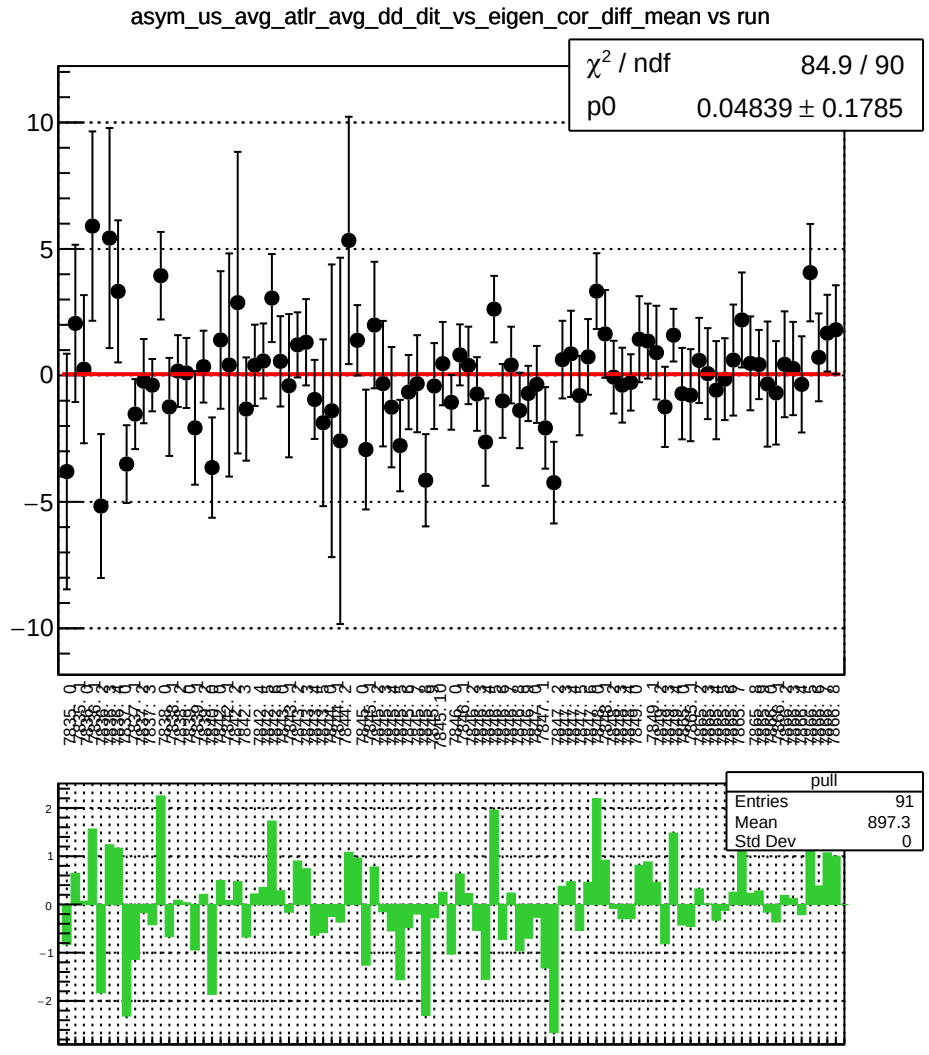

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.66 / 90
p0 1.196e−12 ± 1.326e−12
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 64.68
Std Dev 47.81
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0717
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

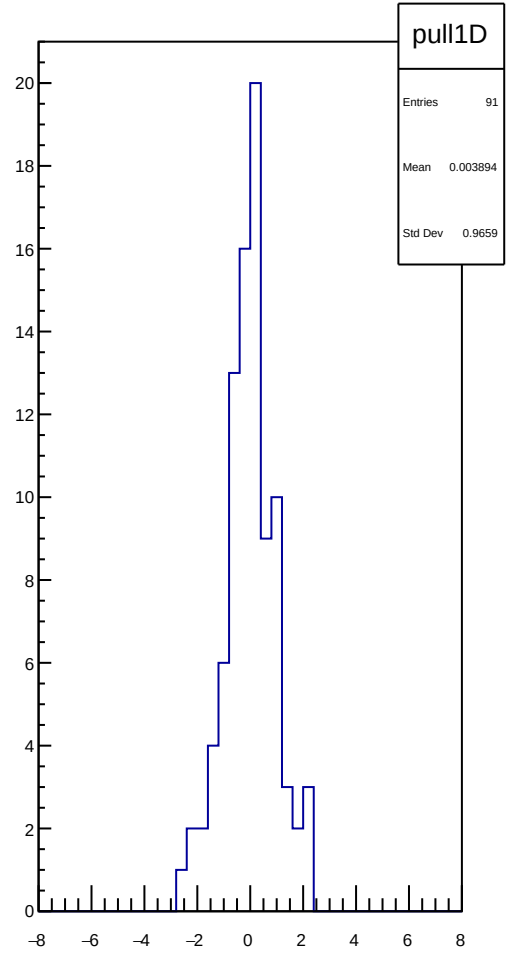

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9e+05 / 90
p0 8.669e−10 ± 9.375e−13
1
0.8
0.6
0.4
0.2
0

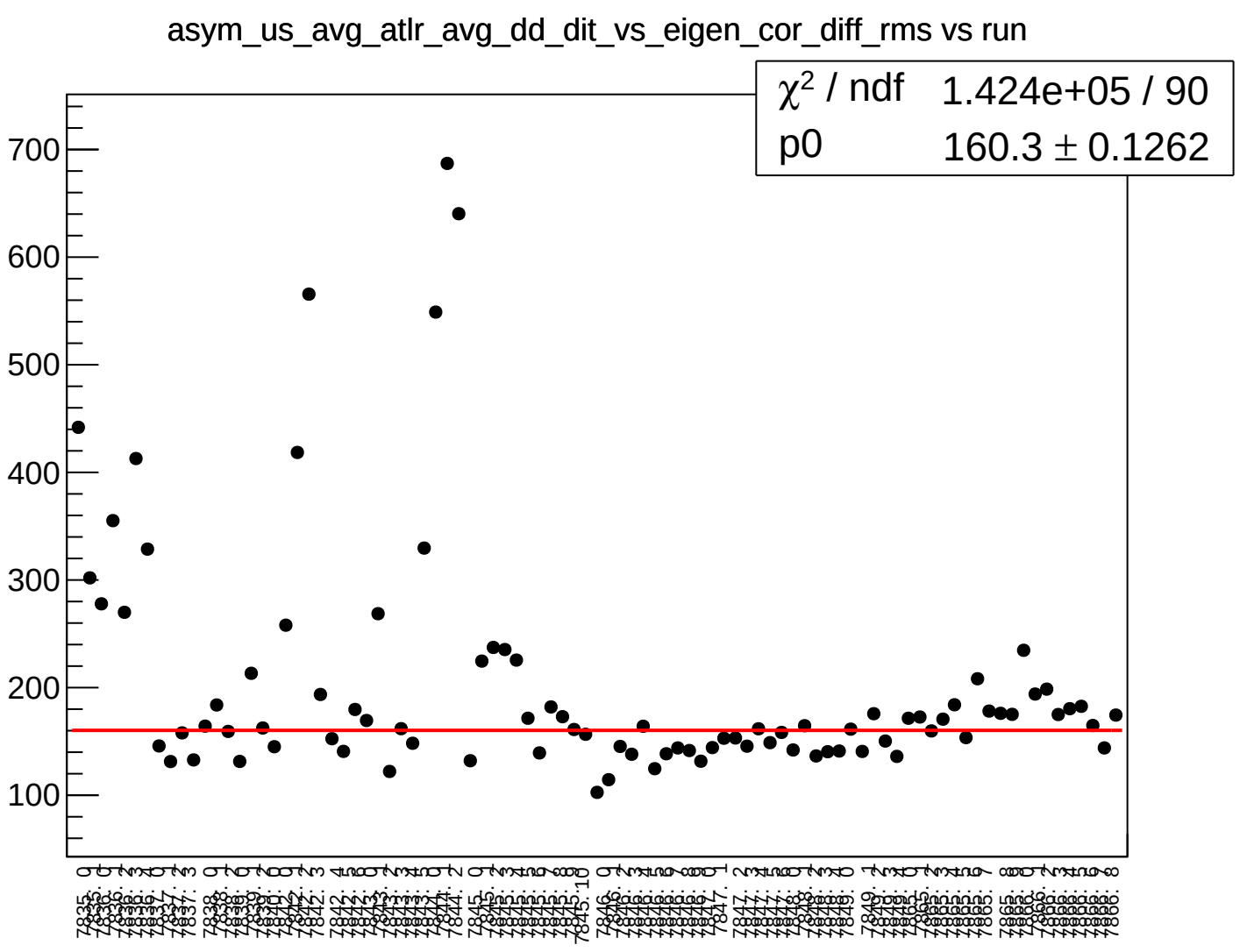

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.9 / 90
p0 0.04839 ± 0.1785
pull
Entries 91
Mean 897.3
Std Dev 0

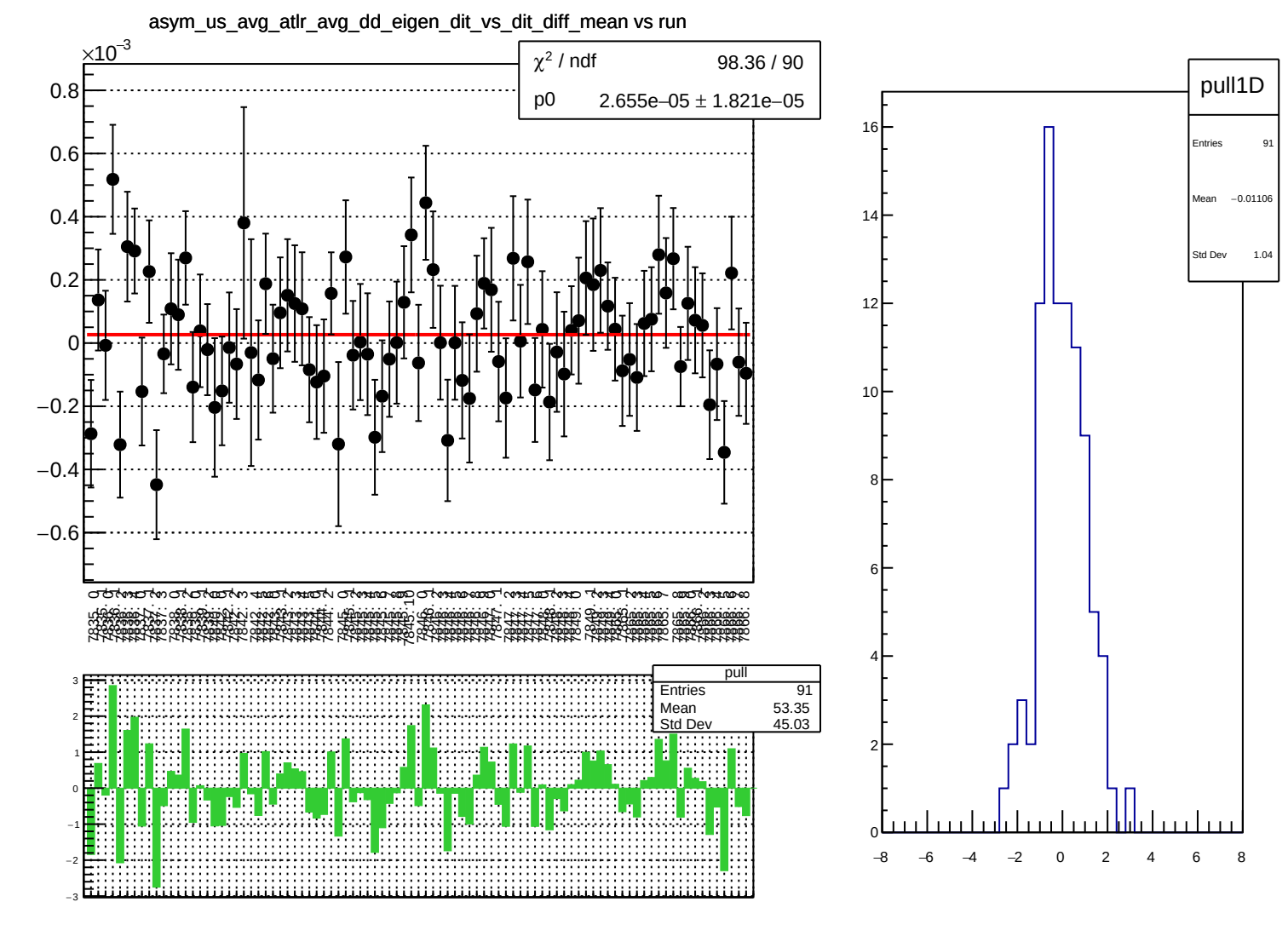

pull1D
Entries 91
Mean 0.003894
Std Dev 0.9659

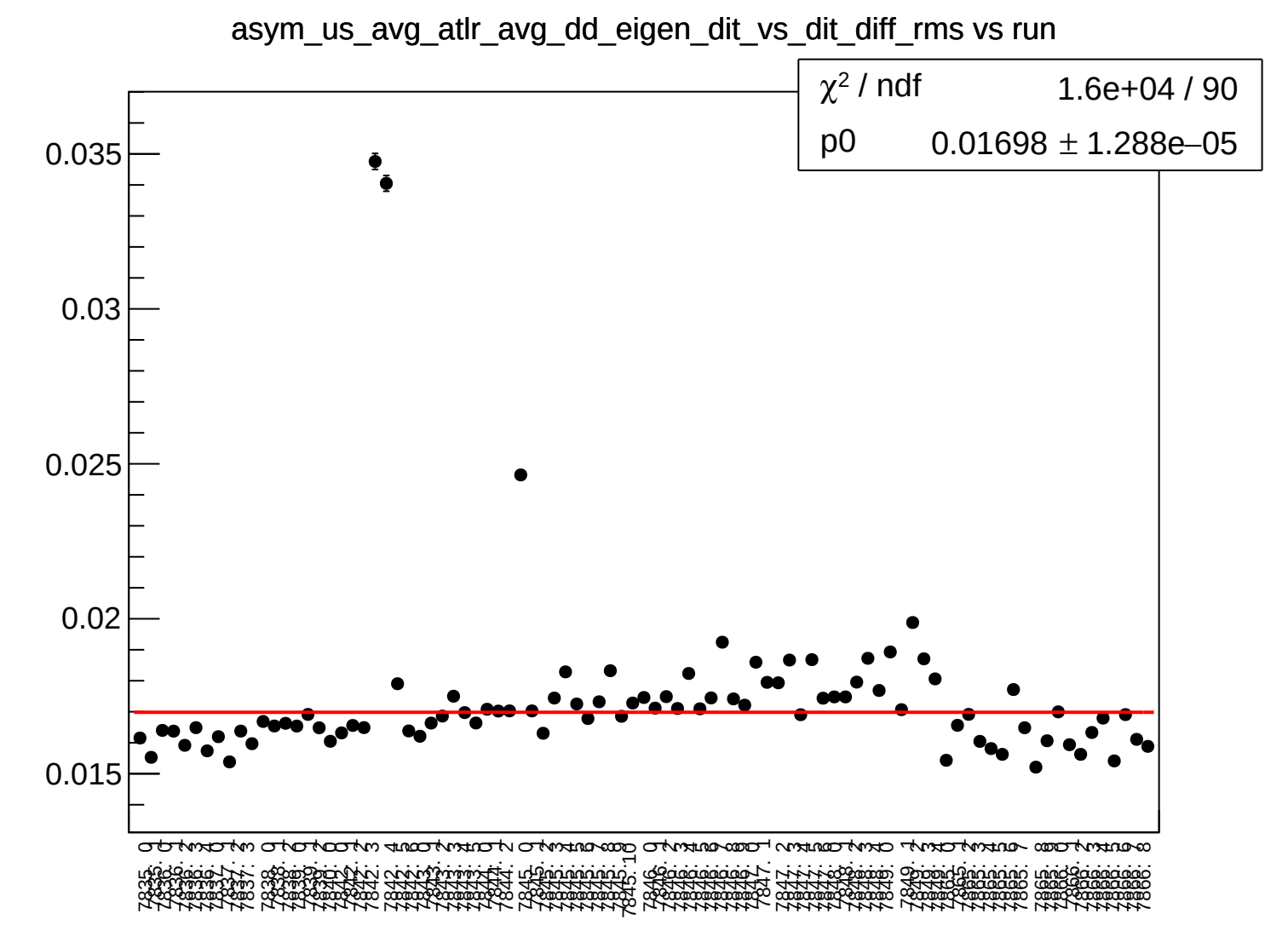

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 90
p0 160.3 ± 0.1262
700
600
500
400
300
200
100

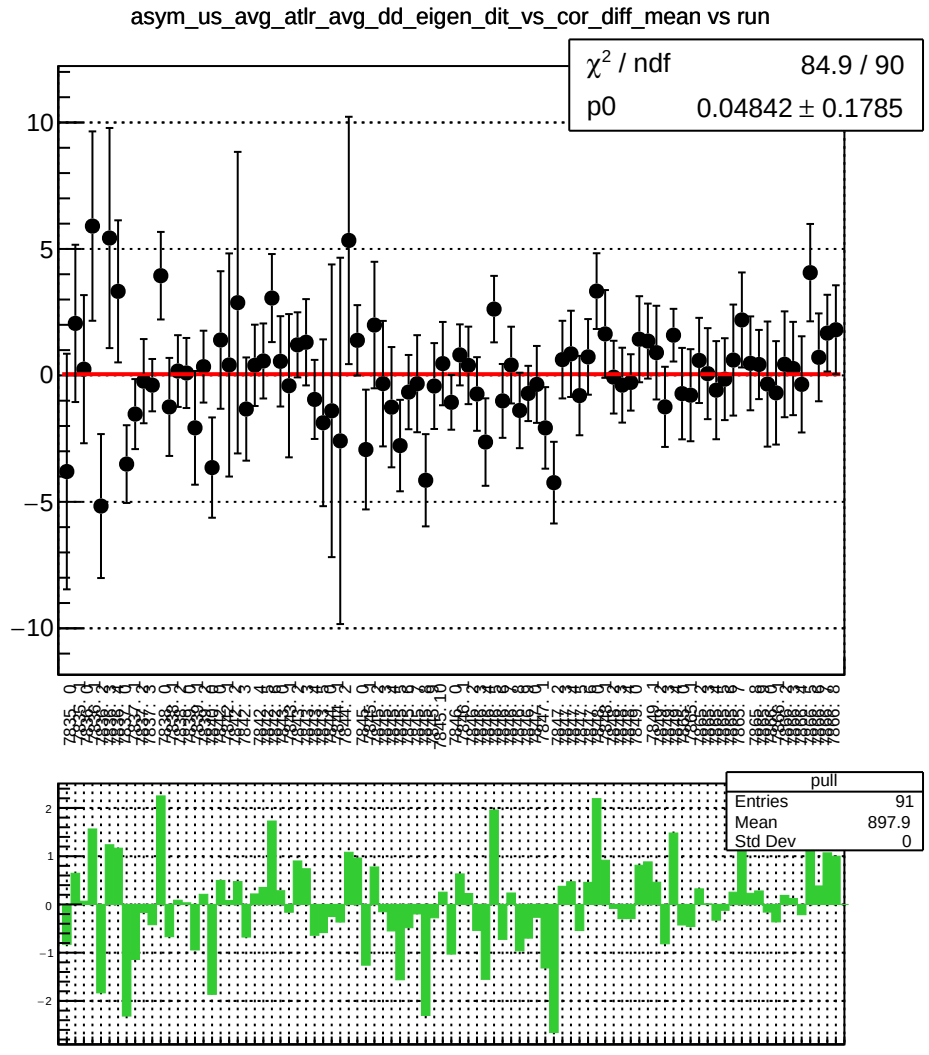

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.9 / 90
p0 0.04839 ± 0.1785
pull
Entries 91
Mean 897.3
Std Dev 0

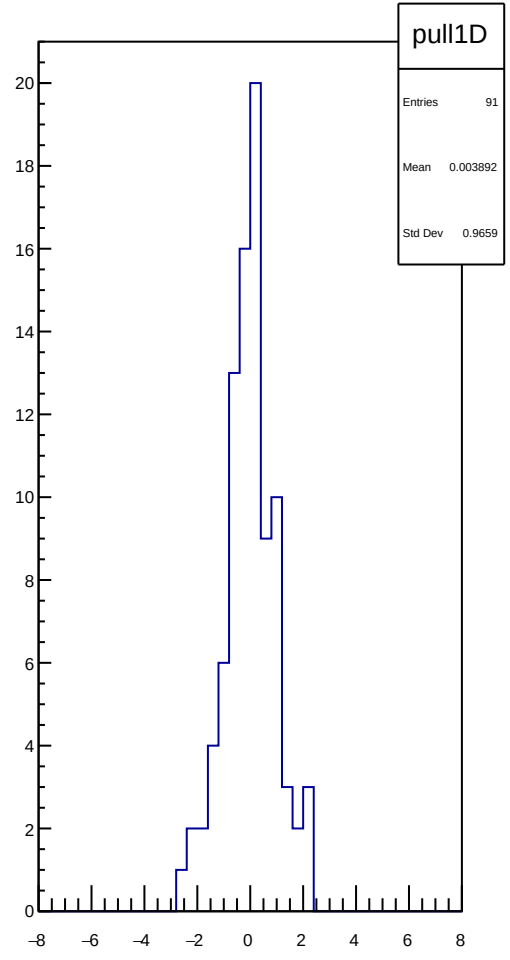

pull1D
Entries 91
Mean 0.003894
Std Dev 0.9659

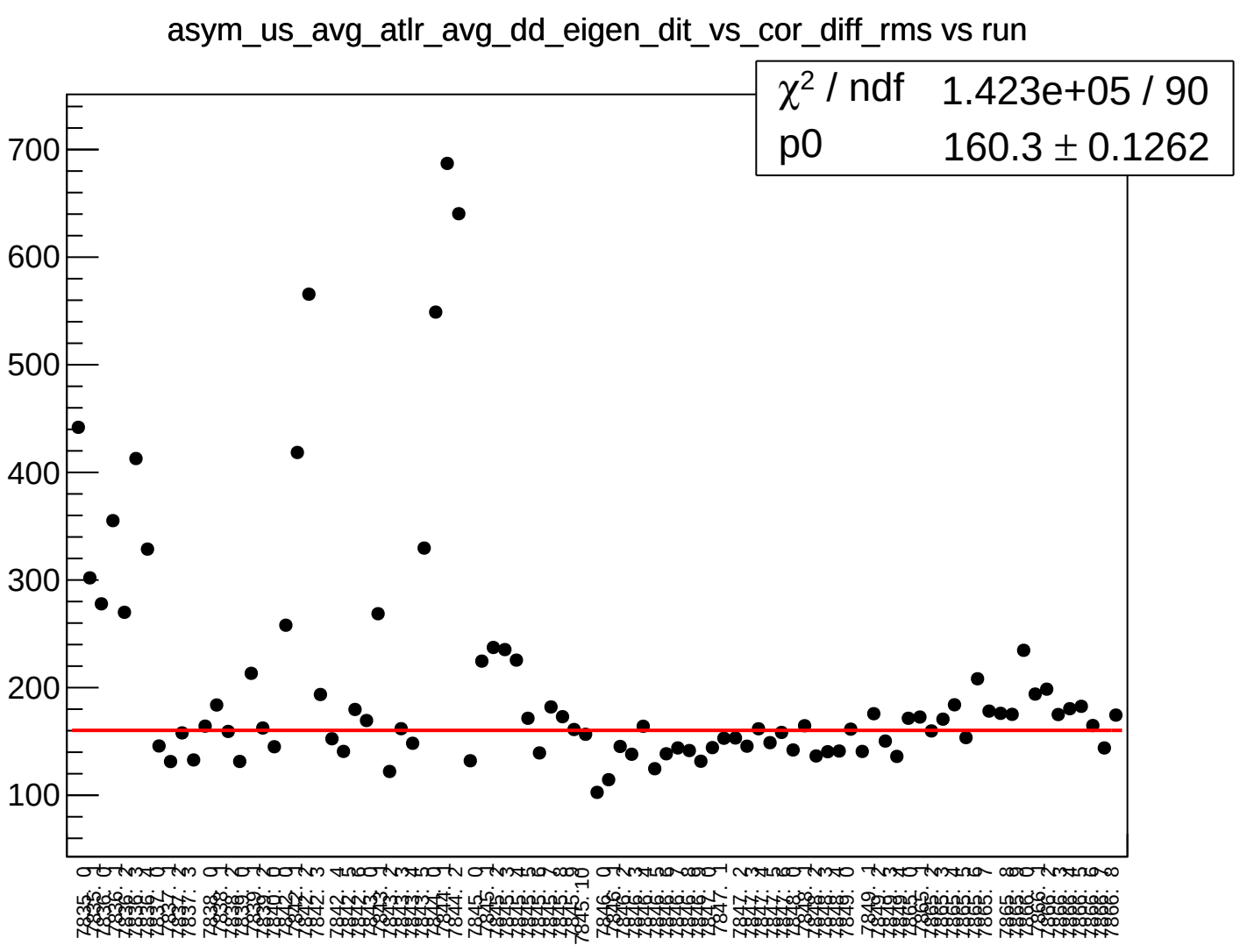

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 90
p0 160.3 ± 0.1262
700
600
500
400
300
200
100

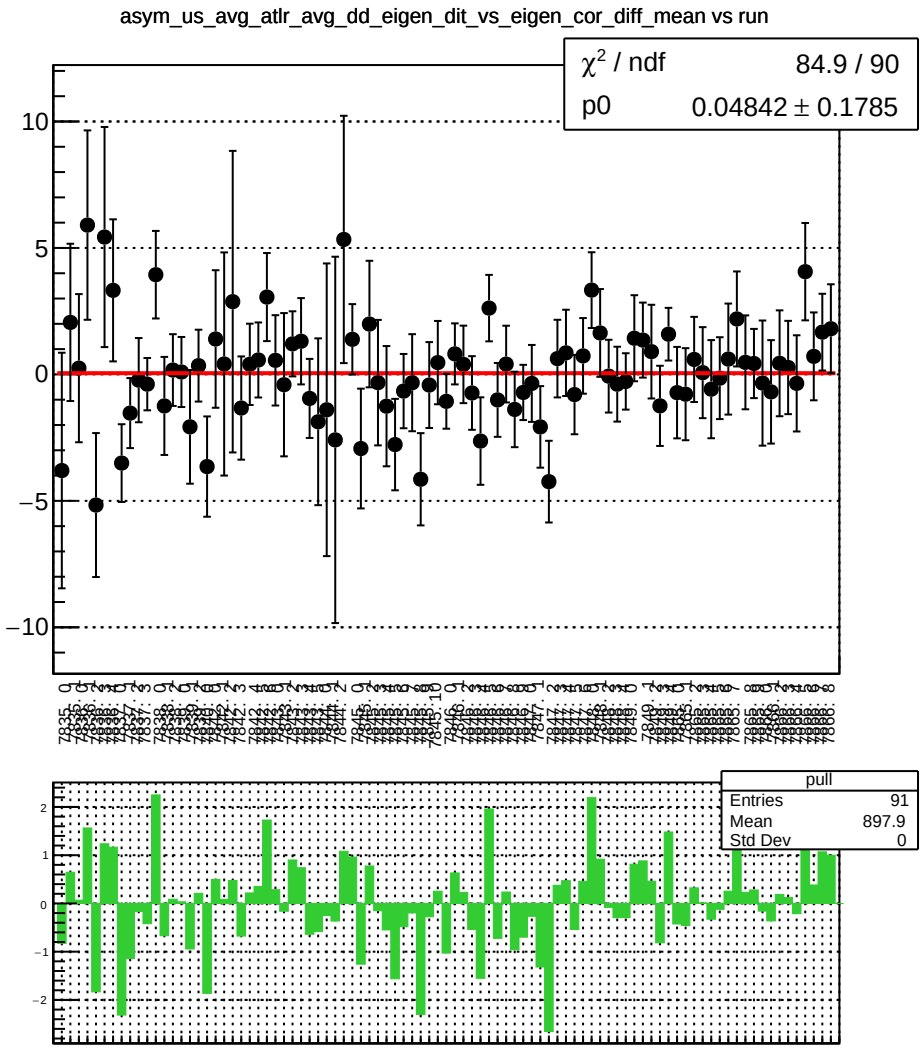

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 98.36 / 90
p0 2.655e−05 ± 1.821e−05
pull
Entries 91
Mean 53.35
Std Dev 45.03
pull1D
Entries 91
Mean −0.01106
Std Dev 1.04

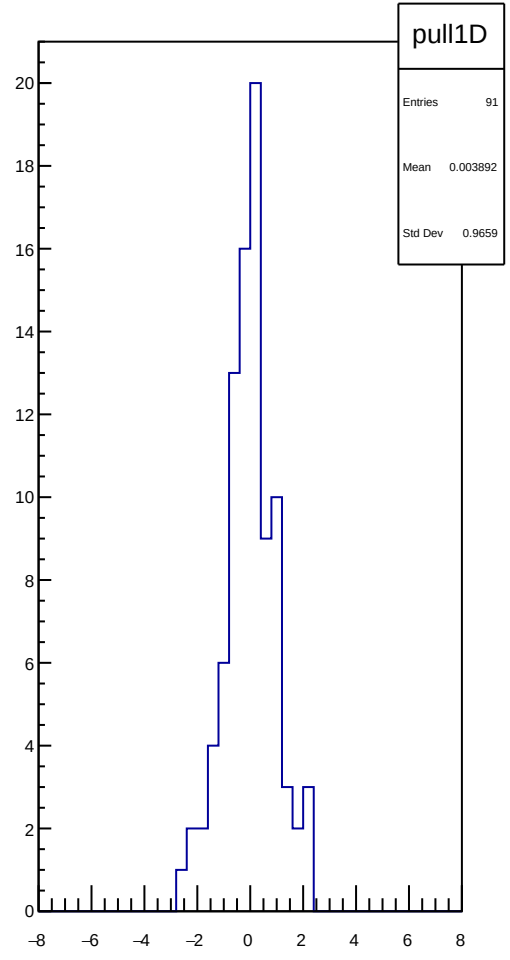

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.6e+04 / 90
p0 0.01698 ± 1.288e−05
0.035
0.03
0.025
0.02
0.015

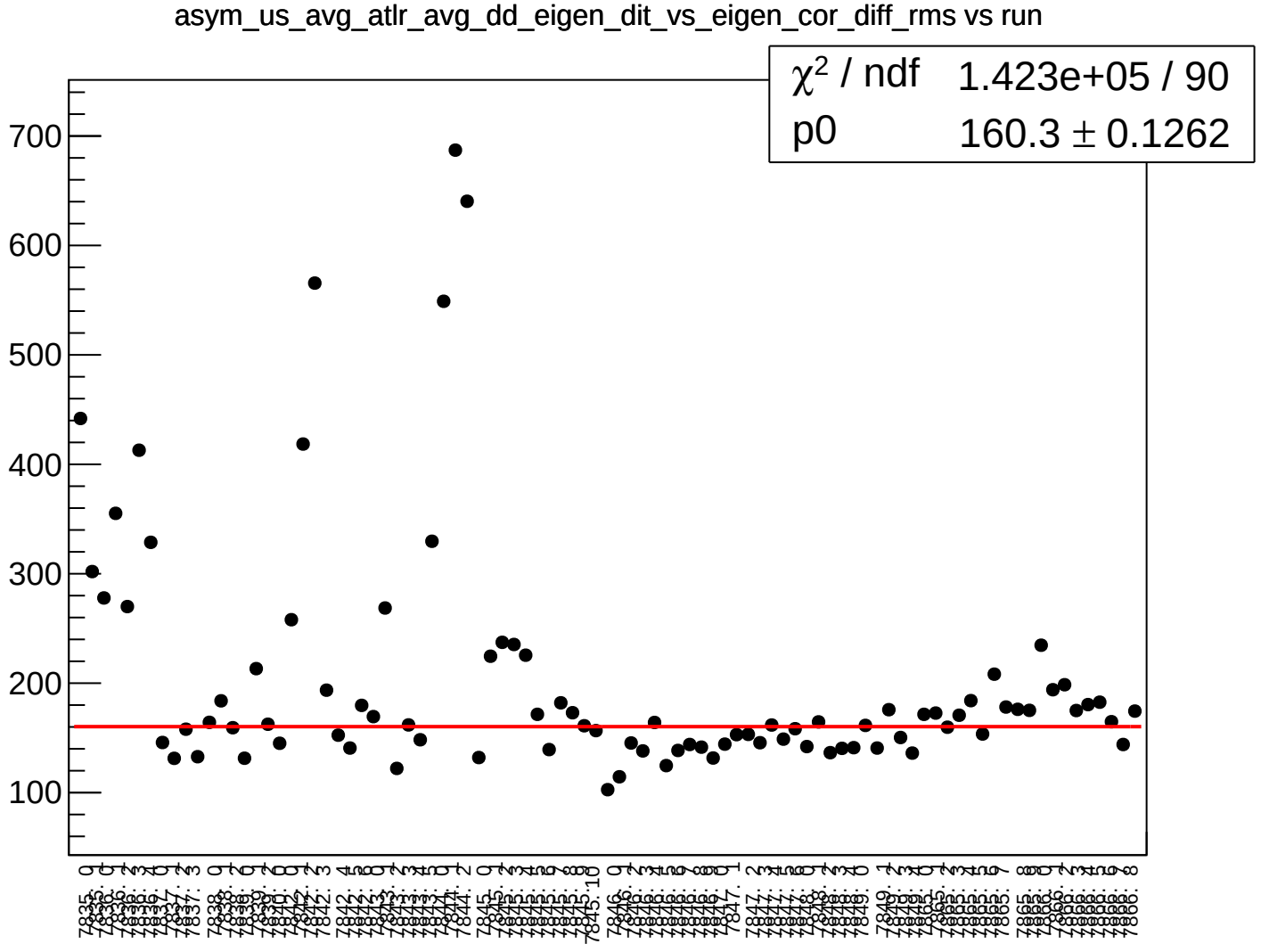

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.9 / 90
p0 0.04842 ± 0.1785
pull
Entries 91
Mean 897.9
Std Dev 0

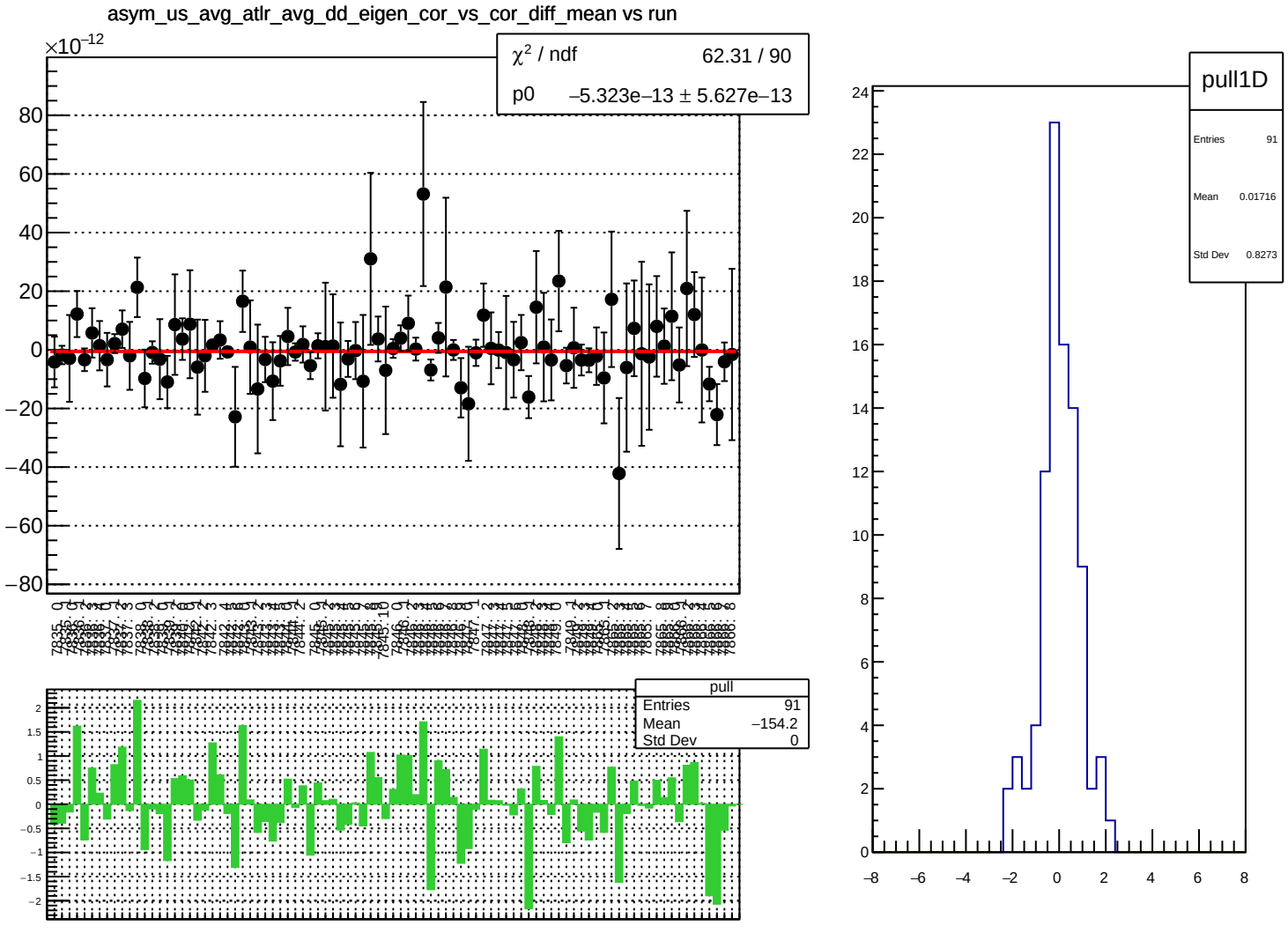

pull1D
Entries 91
Mean 0.003892
Std Dev 0.9659

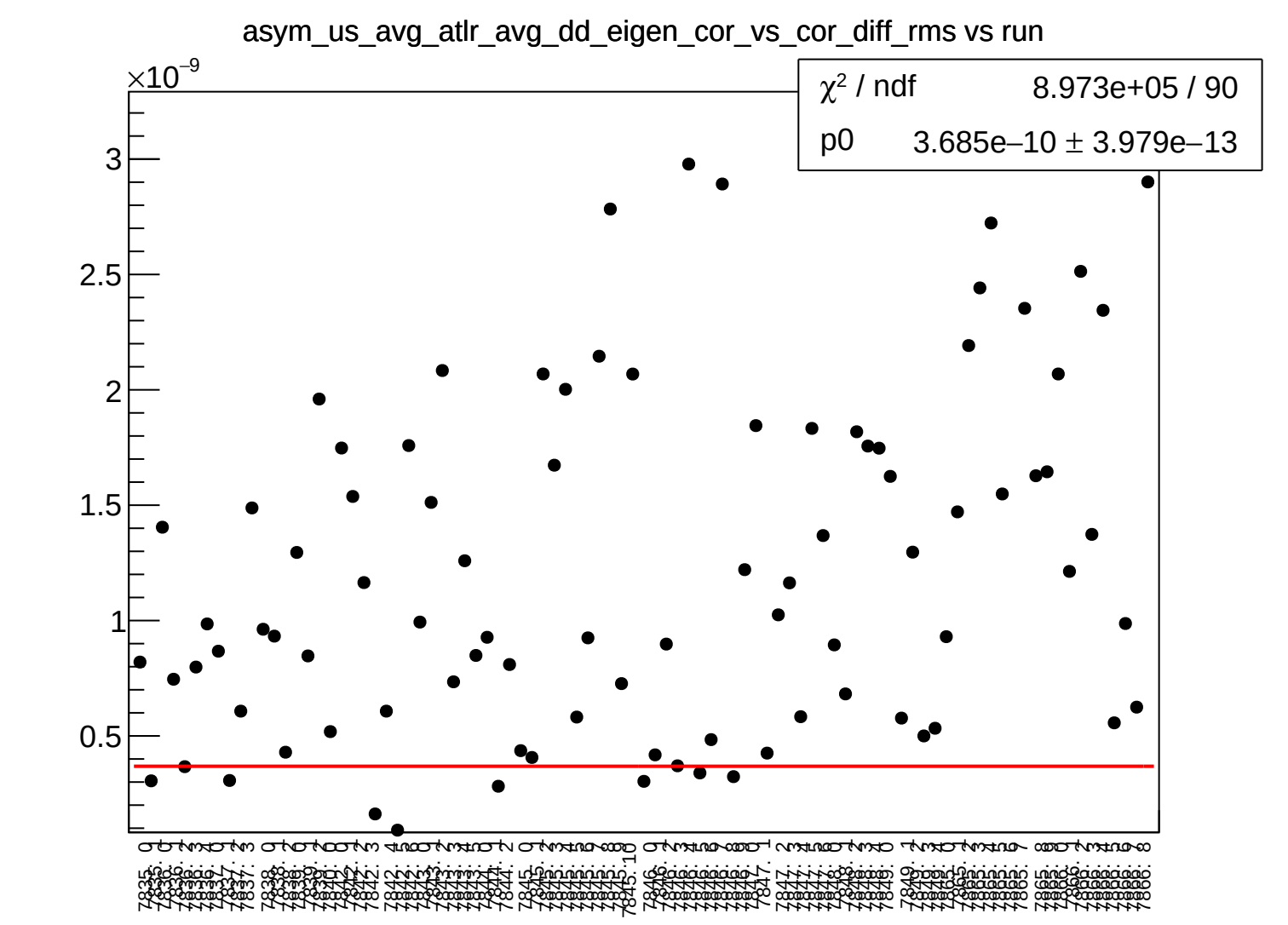

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.423e+05 / 90
p0 160.3 ± 0.1262
700
600
500
400
300
200
100

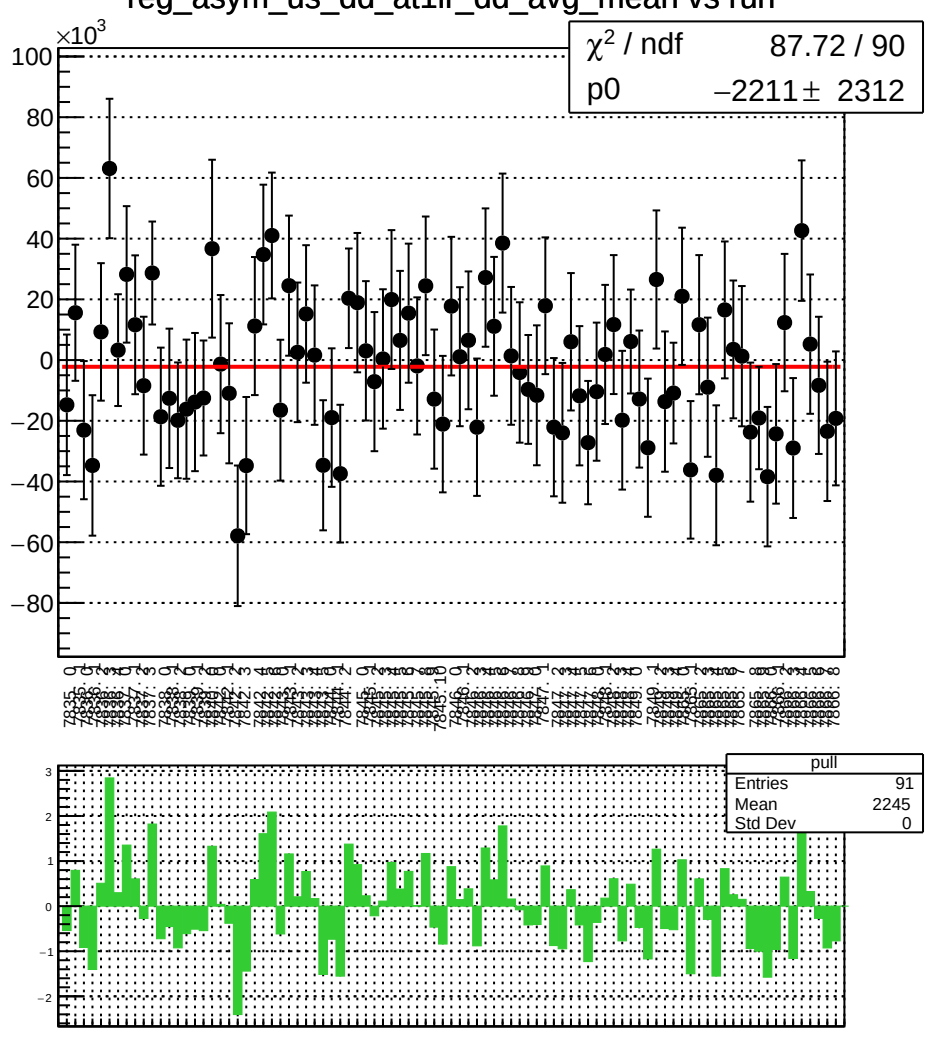

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.9 / 90
p0 0.04842 ± 0.1785
pull
Entries 91
Mean 897.9
Std Dev 0

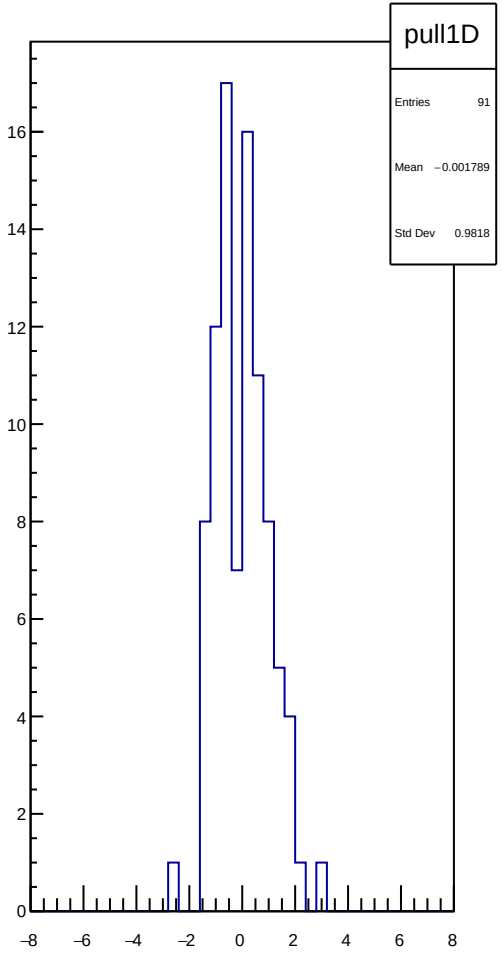

pull1D
Entries 91
Mean 0.003892
Std Dev 0.9659

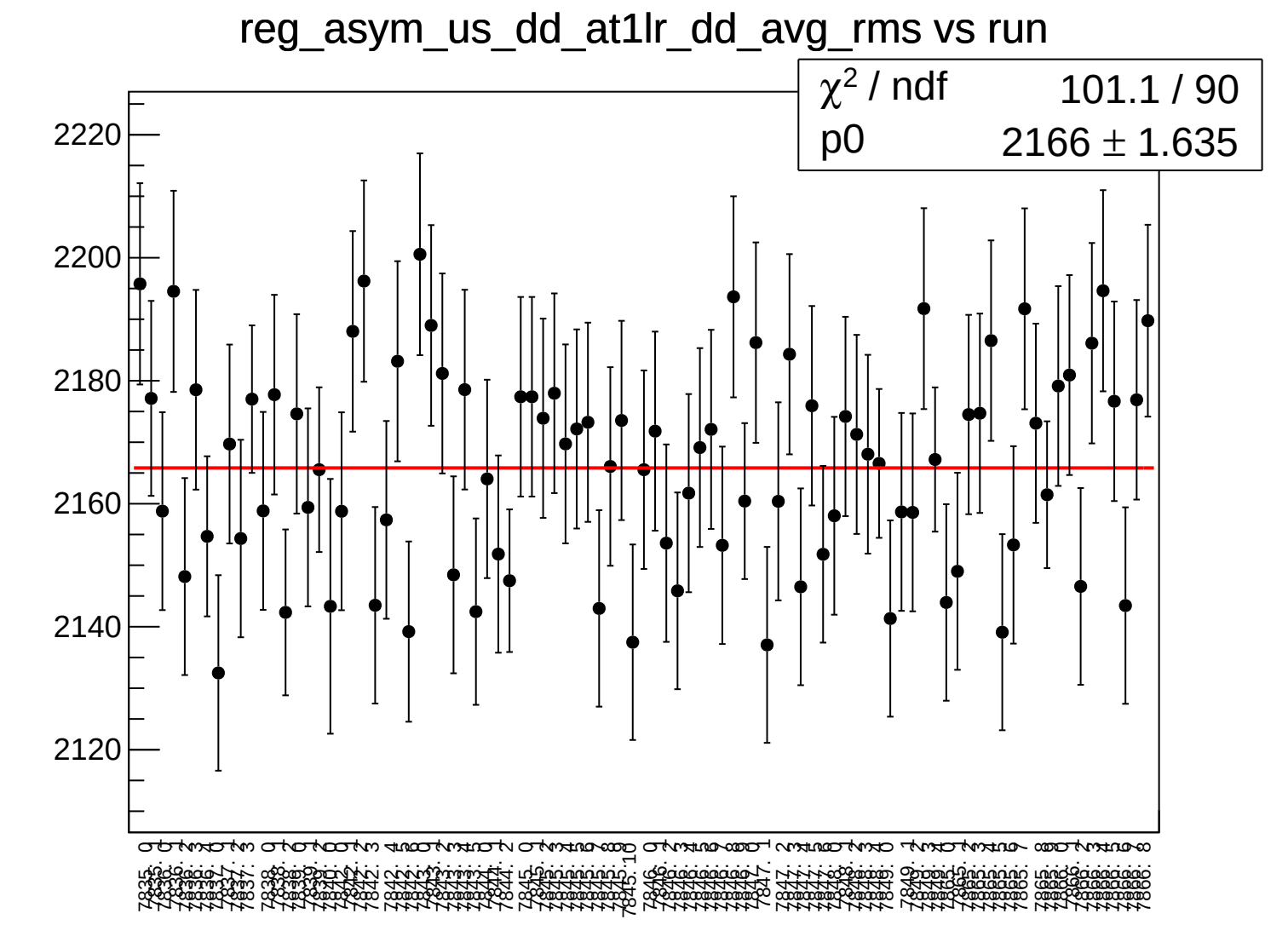

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.423e+05 / 90
p0 160.3 ± 0.1262
700
600
500
400
300
200
100

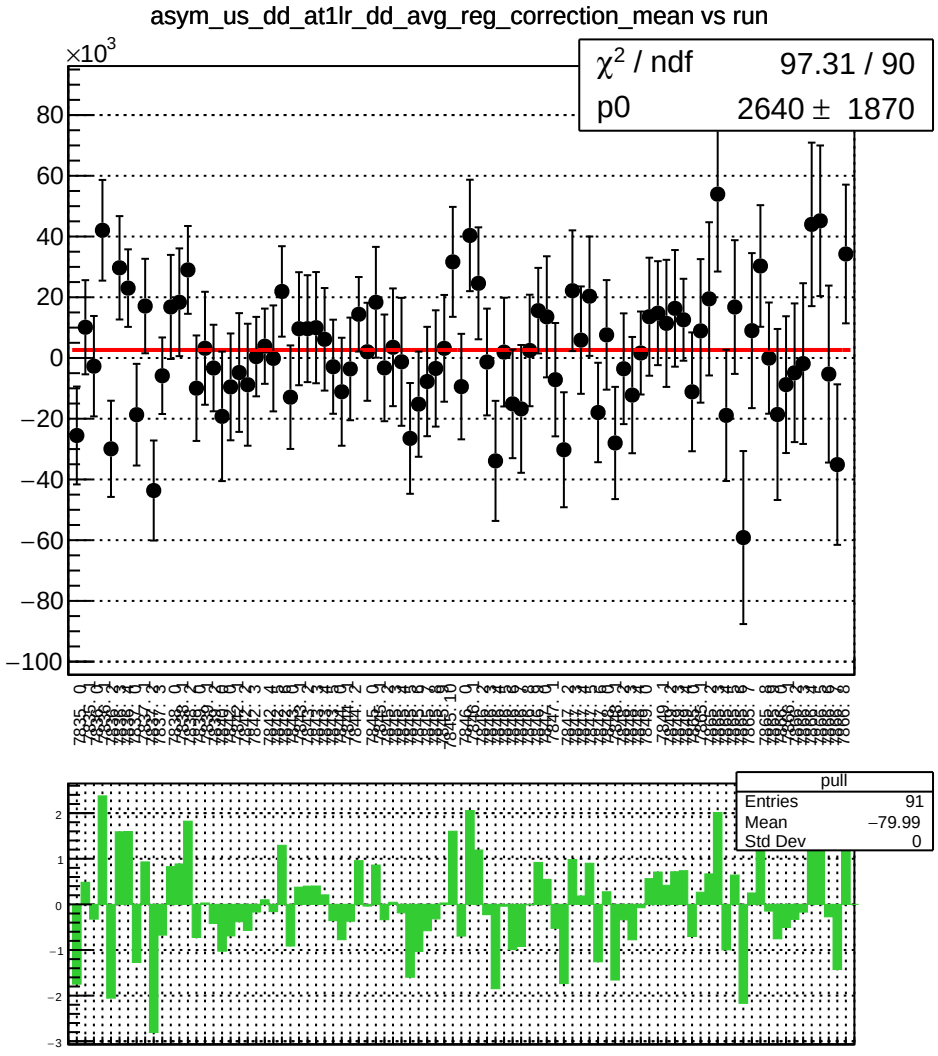

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 62.31 / 90
p0 −5.323e−13 ± 5.627e−13
pull
Entries 91
Mean −154.2
Std Dev 0
pull1D
Entries 91
Mean 0.01716
Std Dev 0.8273

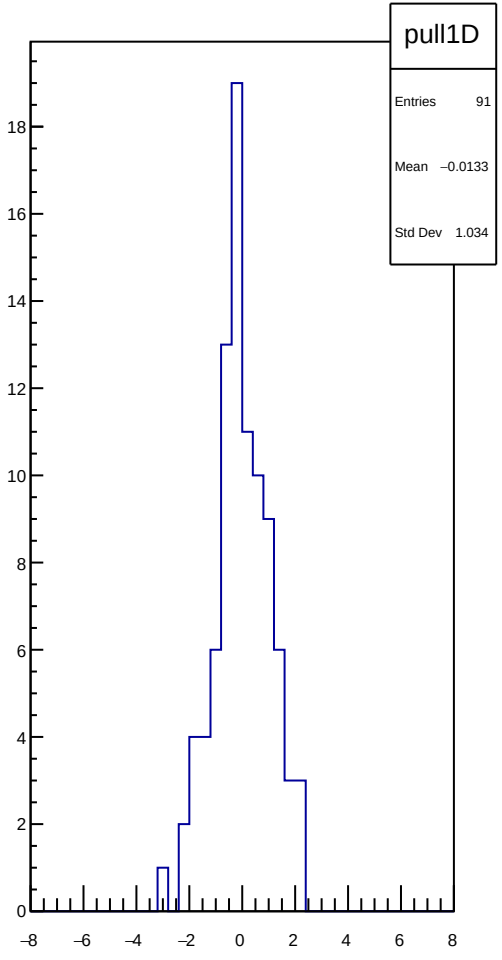

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.973e+05 / 90
p0 3.685e−10 ± 3.979e−13
3
2.5
2
1.5
1
0.5

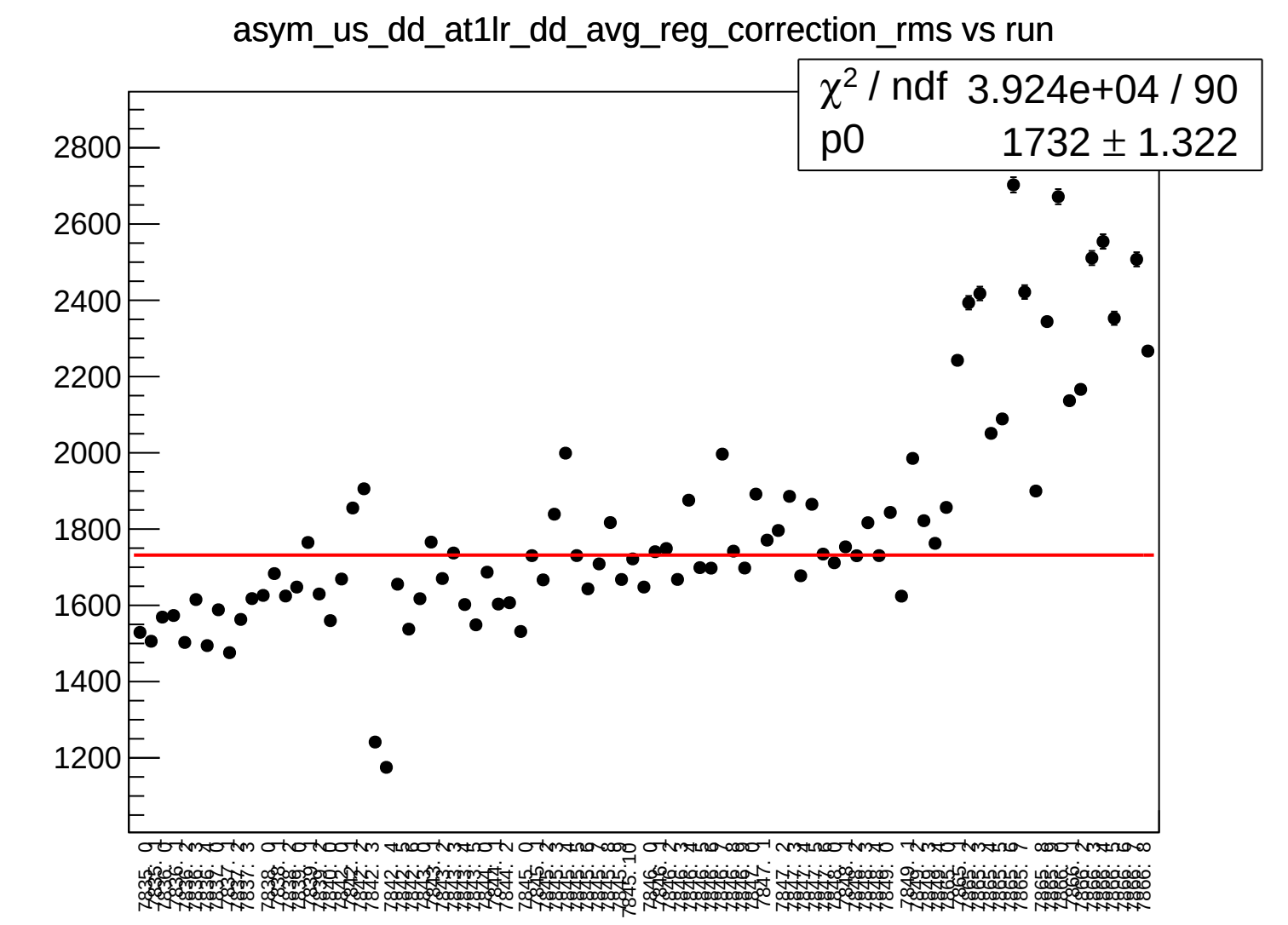

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 87.72 / 90
p0 −2211 ± 2312
pull
Entries 91
Mean 2245
Std Dev 0

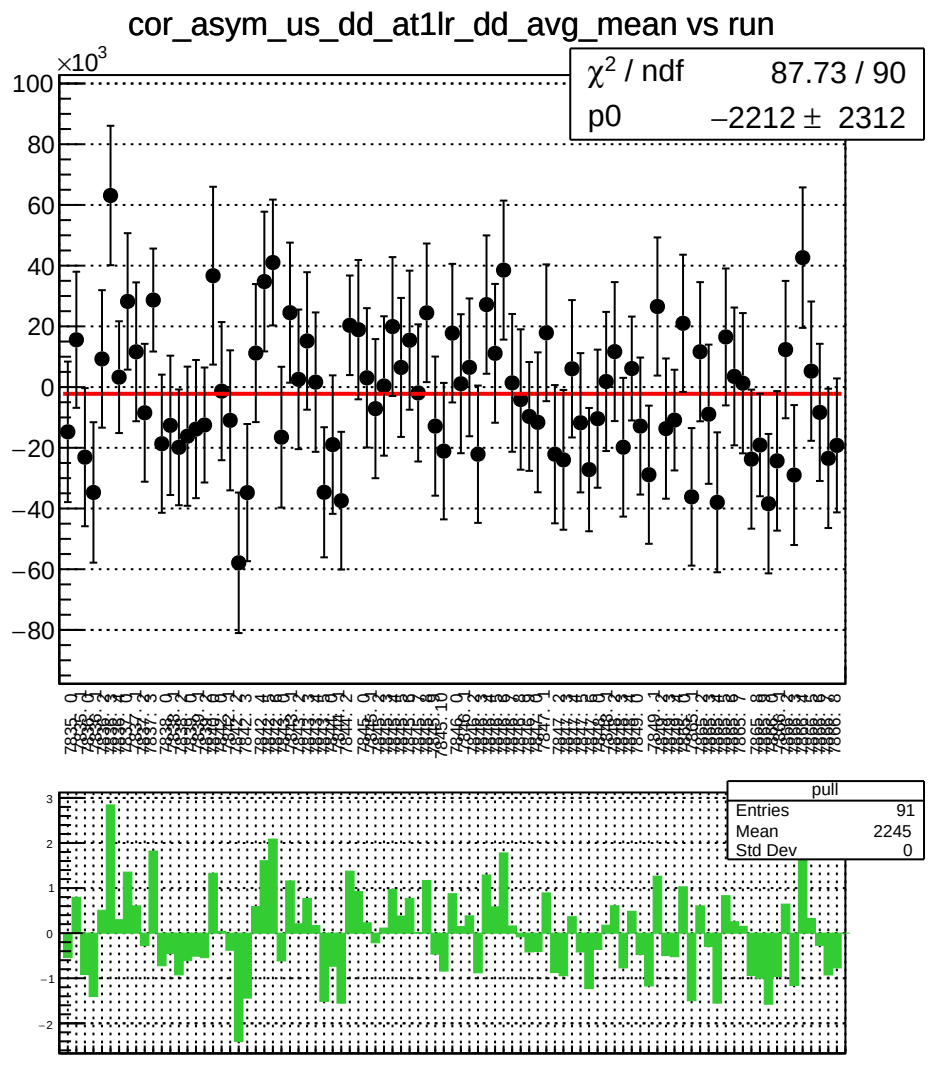

pull1D
Entries 91
Mean −0.001789
Std Dev 0.9818

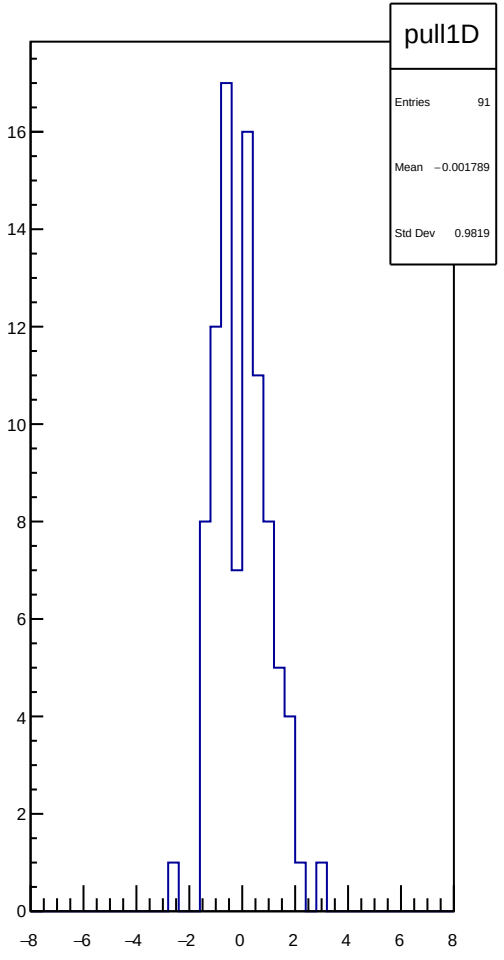

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 101.1 / 90
p0 2166 ± 1.635
2220
2200
2180
2160
2140
2120

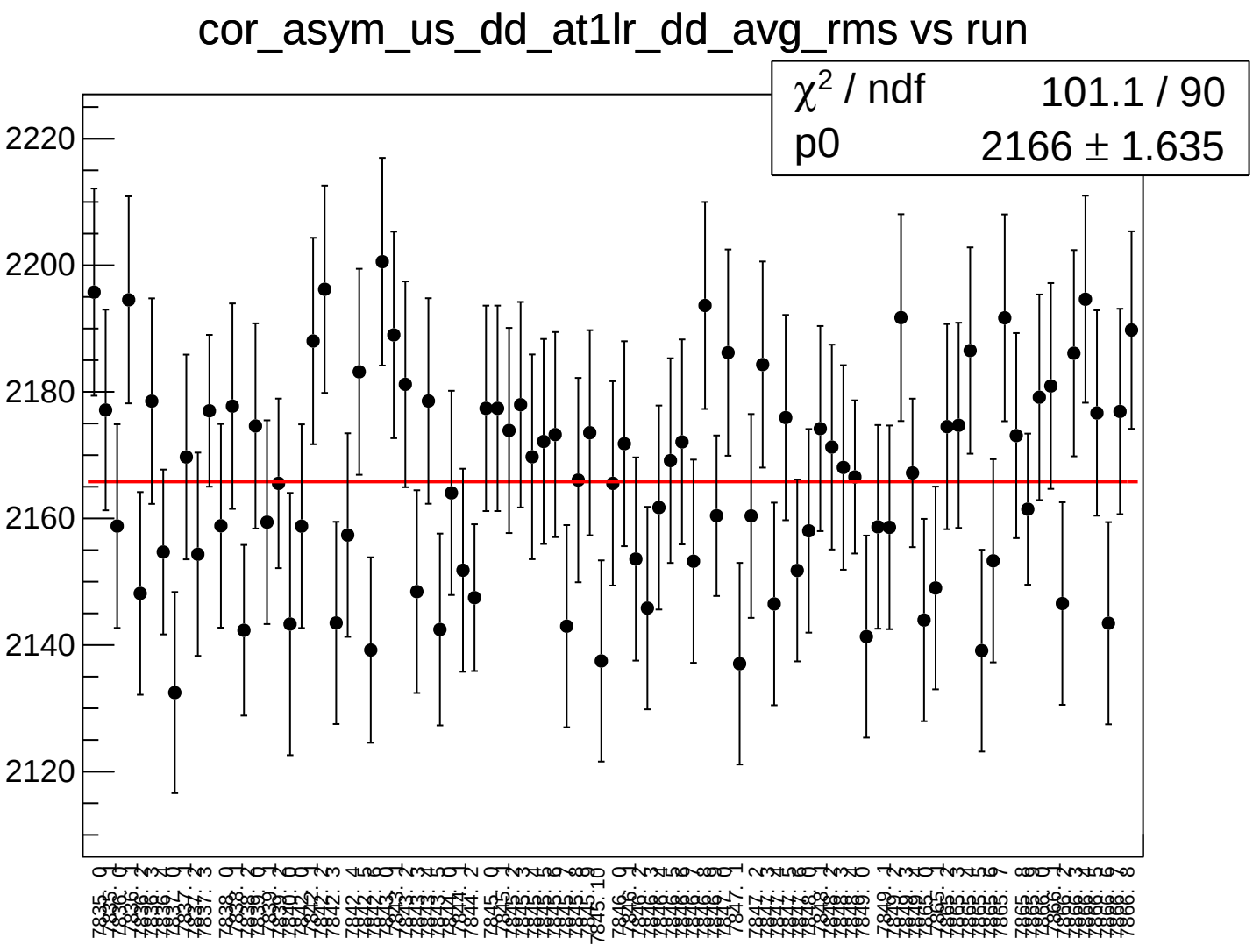

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 97.31 / 90
p0 2640 ± 1870
×10³
pull
Entries 91
Mean −79.99
Std Dev 0

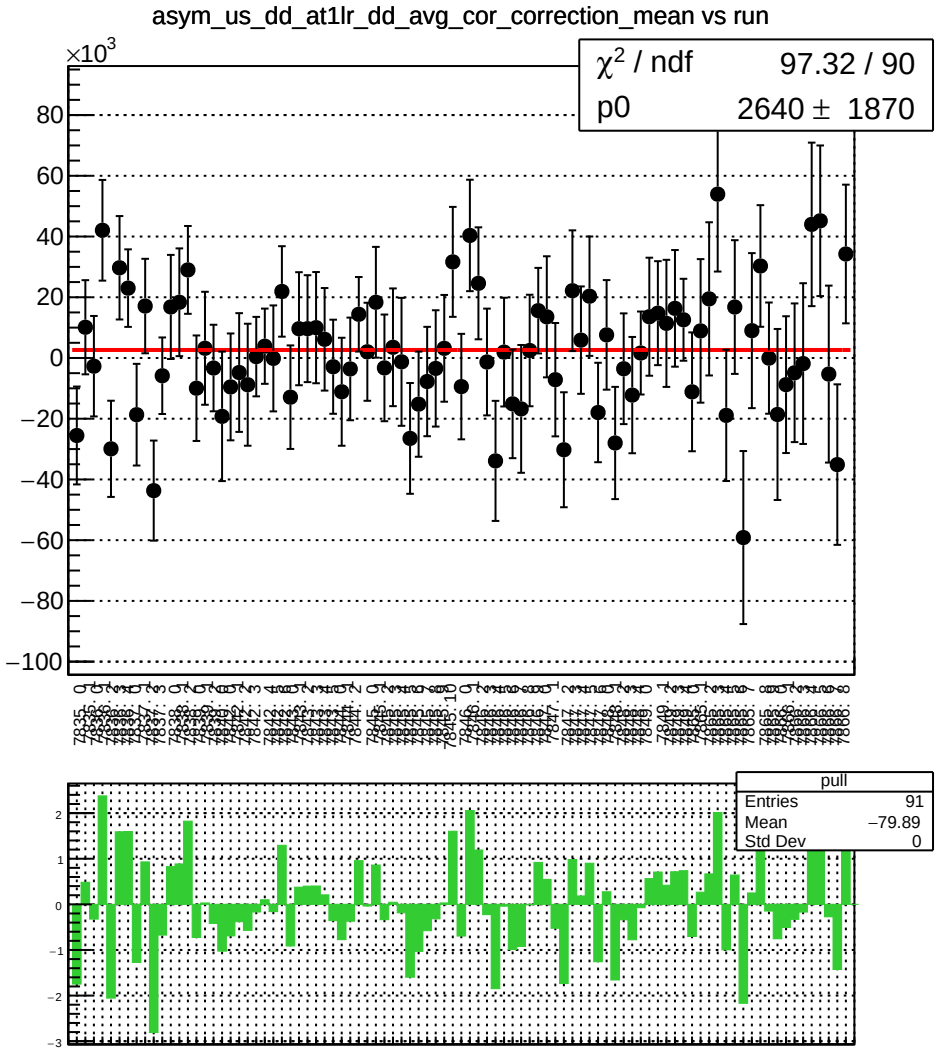

pull1D
Entries 91
Mean −0.0133
Std Dev 1.034

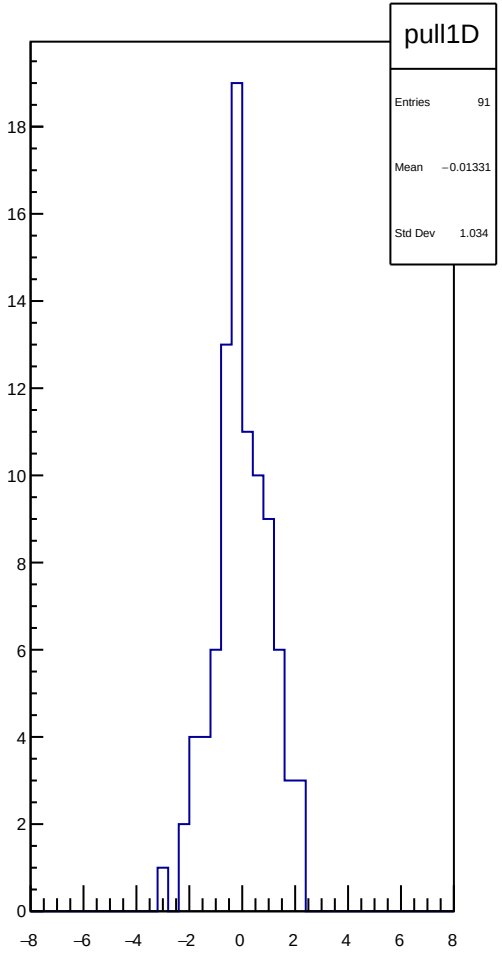

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.924e+04 / 90
p0 1732 ± 1.322
2800
2600
2400
2200
2000
1800
1600
1400
1200

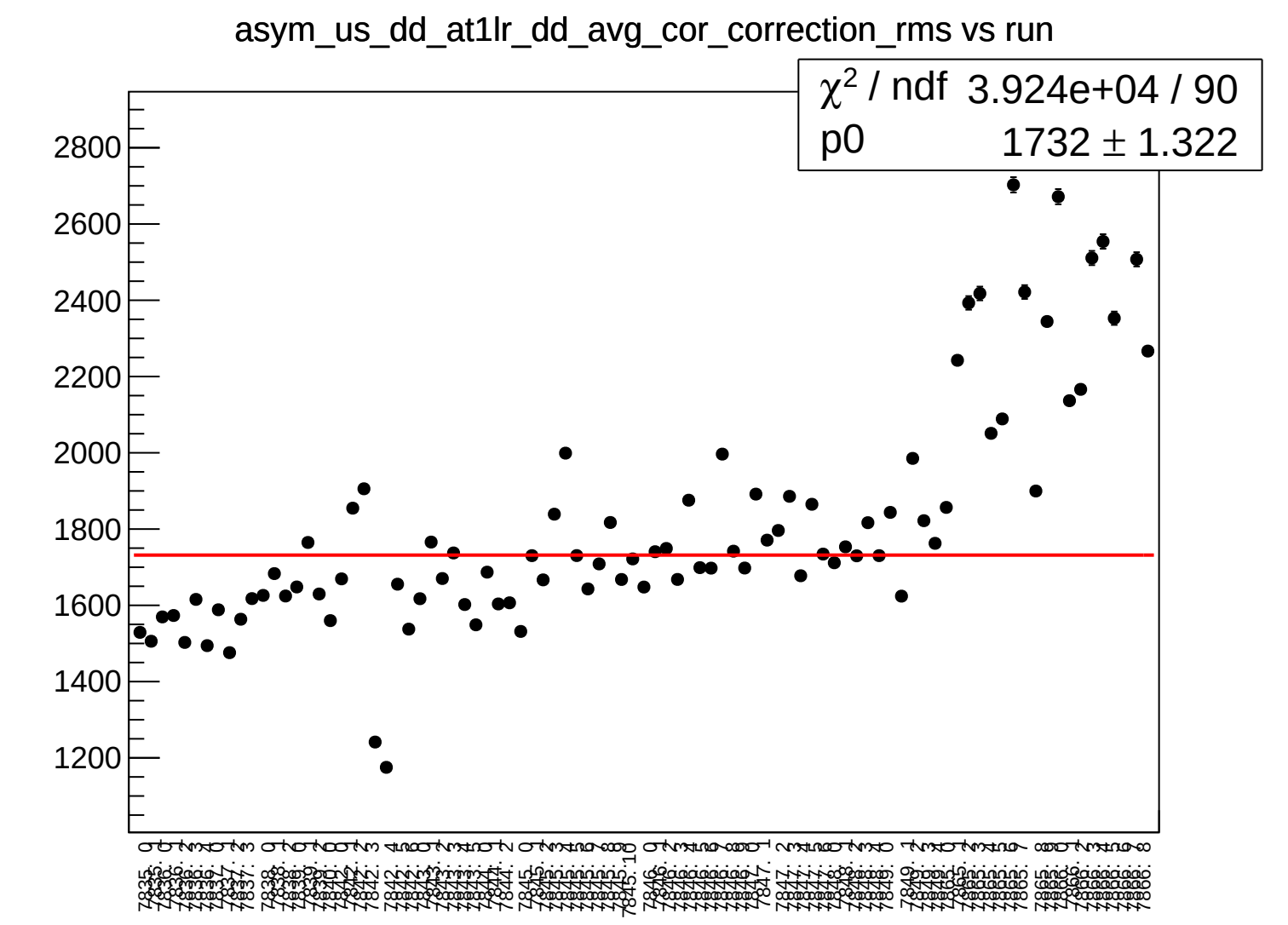

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 87.73 / 90
p0 −2212 ± 2312
pull
Entries 91
Mean 2245
Std Dev 0

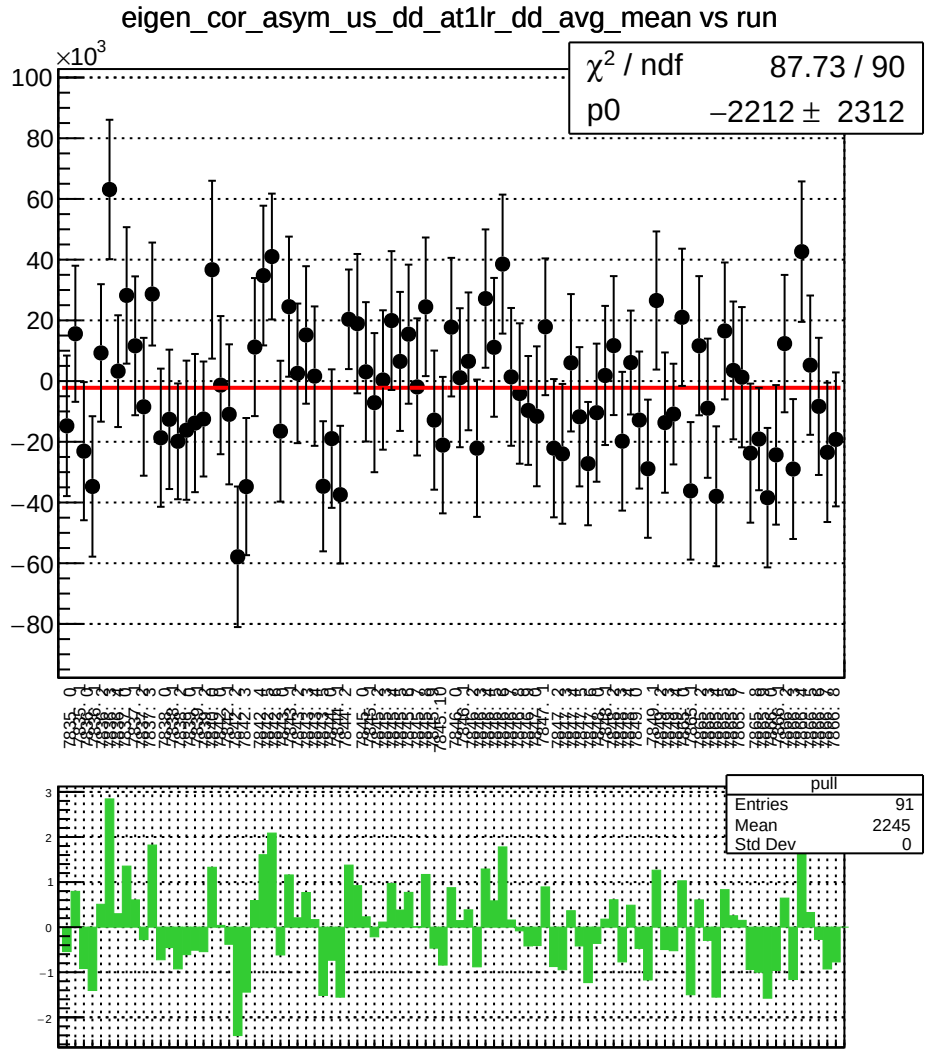

pull1D
Entries 91
Mean −0.001789
Std Dev 0.9819

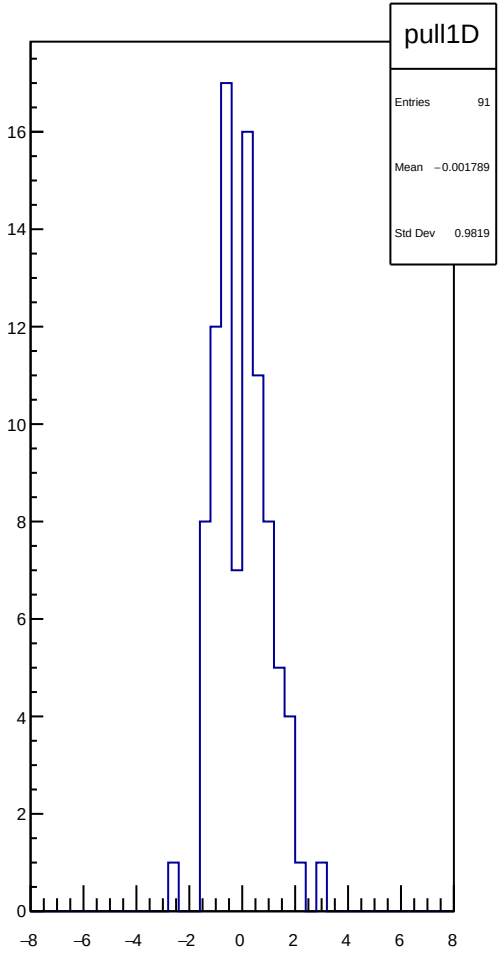

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 101.1 / 90
p0 2166 ± 1.635
2220
2200
2180
2160
2140
2120

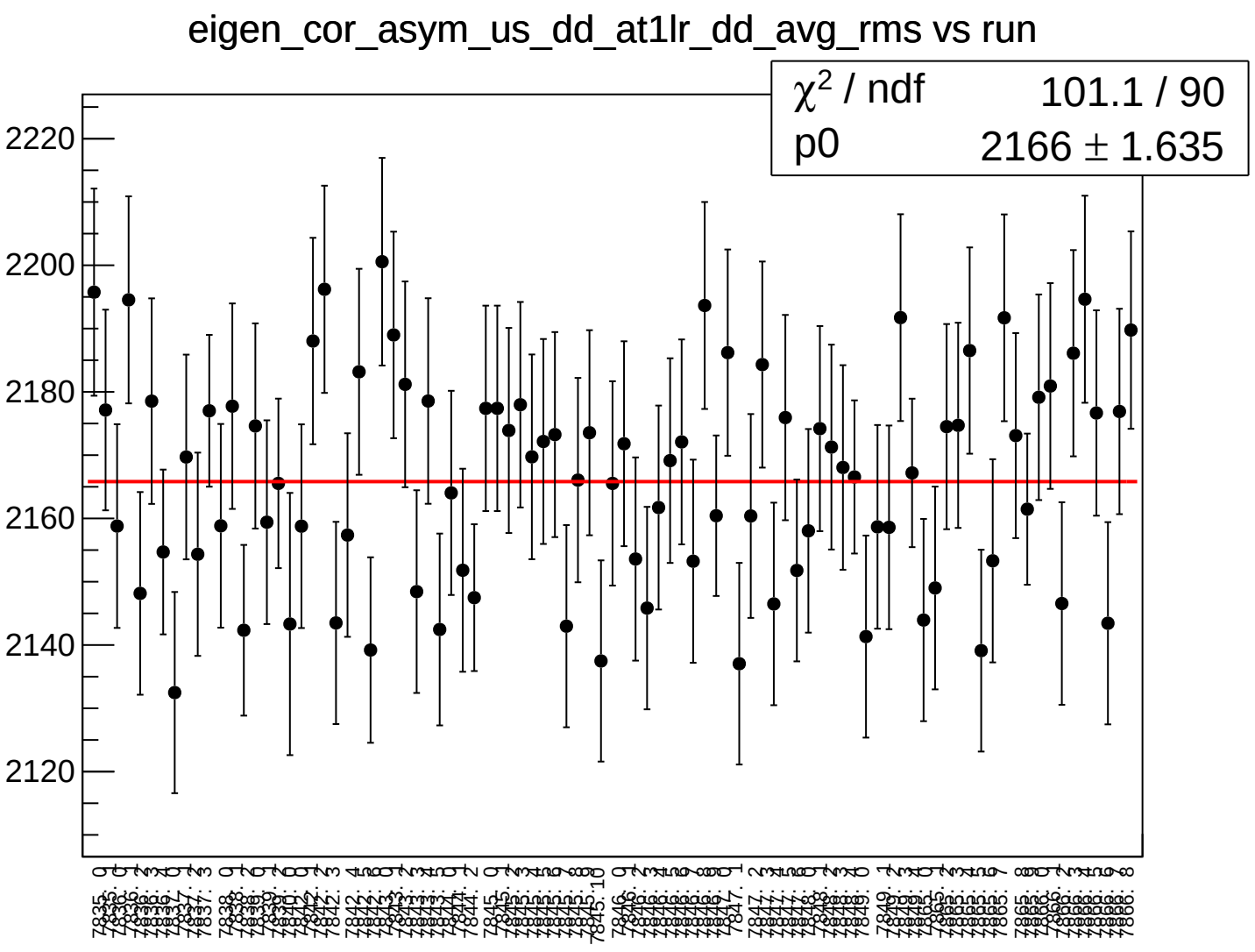

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 97.32 / 90
p0 2640 ± 1870
pull
Entries 91
Mean −79.89
Std Dev 0

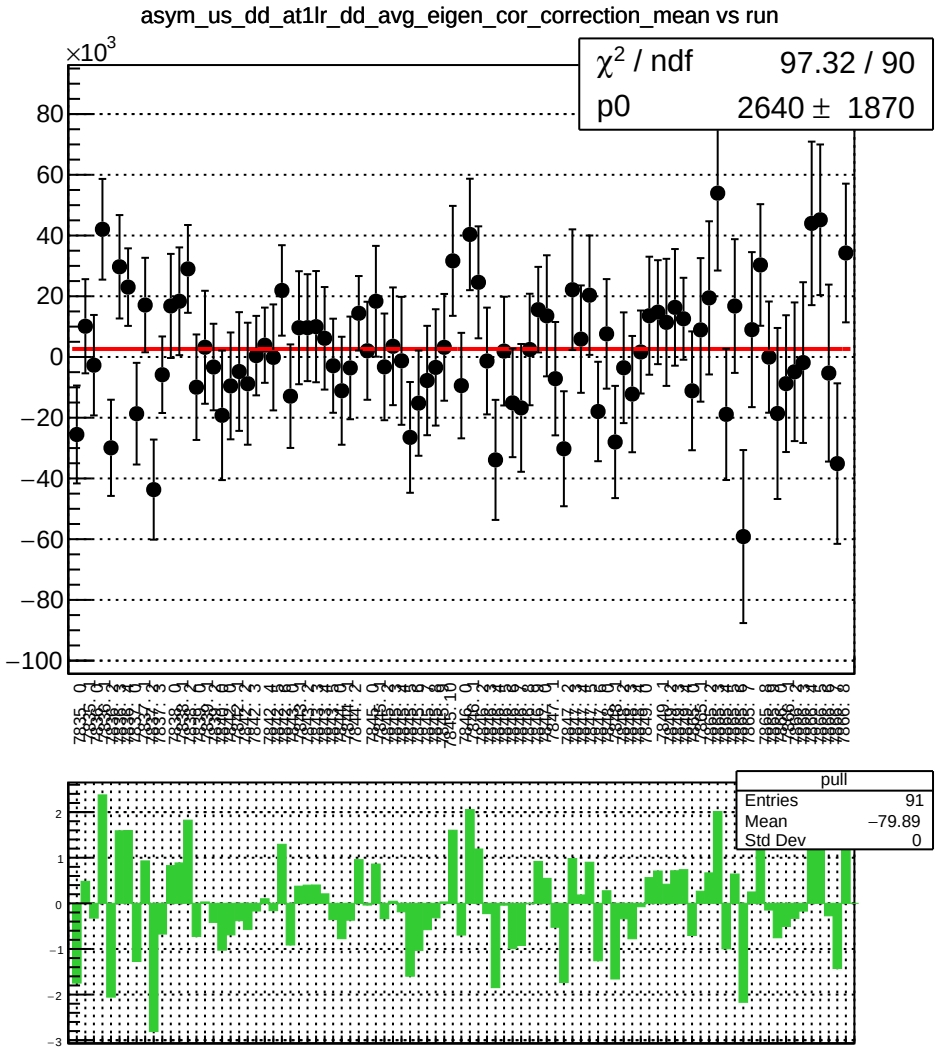

pull1D
Entries 91
Mean −0.01331
Std Dev 1.034

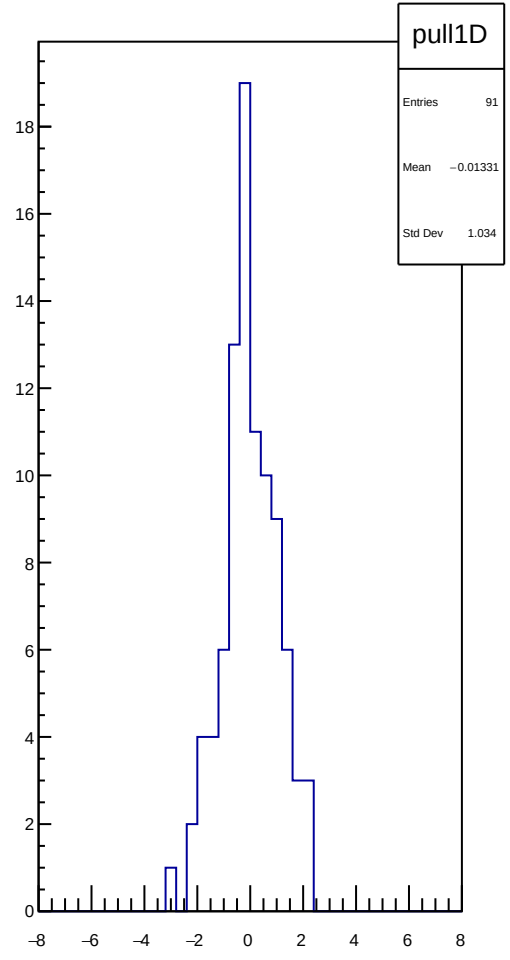

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.924e+04 / 90
p0 1732 ± 1.322
2800
2600
2400
2200
2000
1800
1600
1400
1200

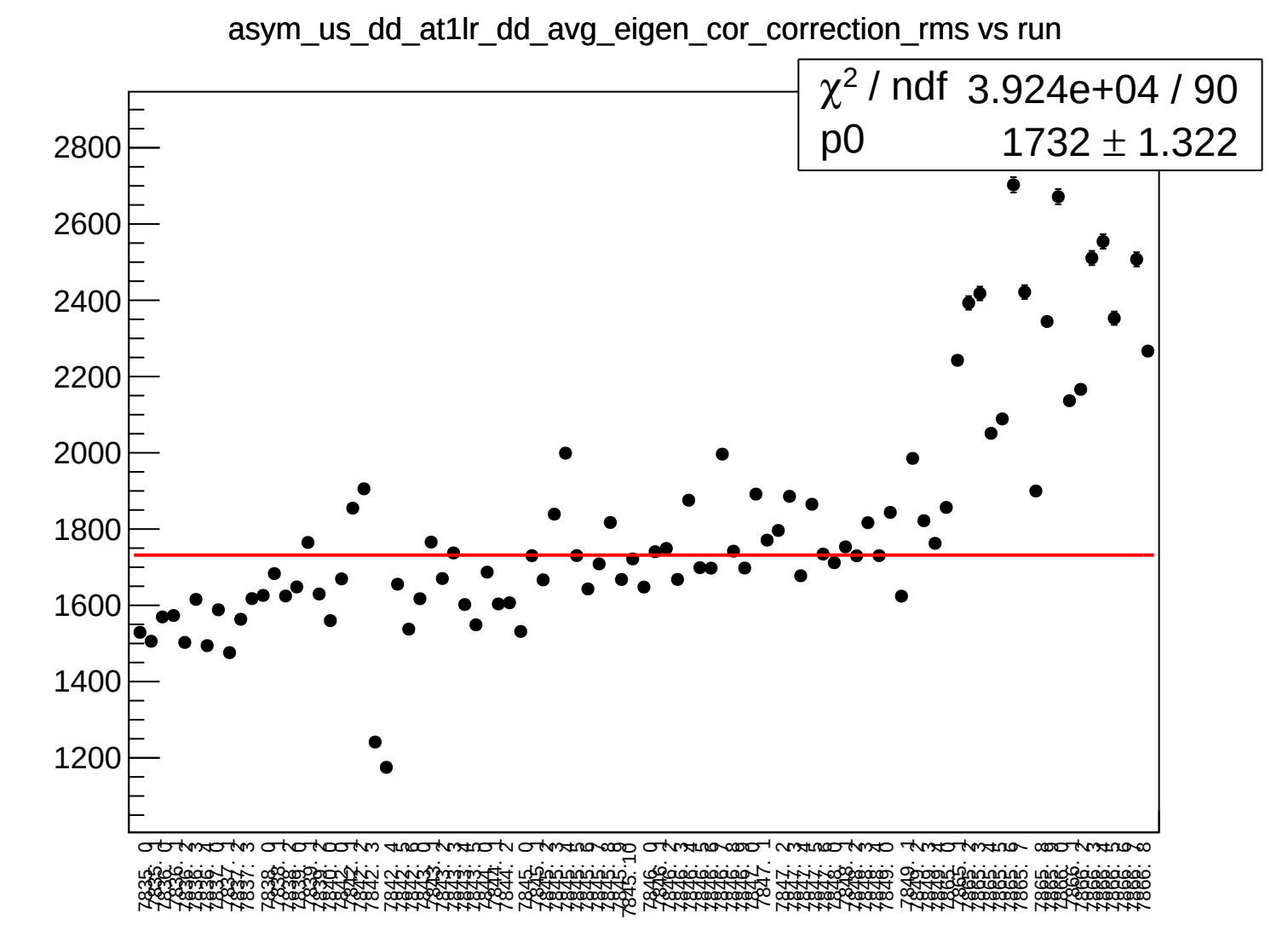

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 87.73 / 90
p0 −2212 ± 2312
pull
Entries 91
Mean 2245
Std Dev 0

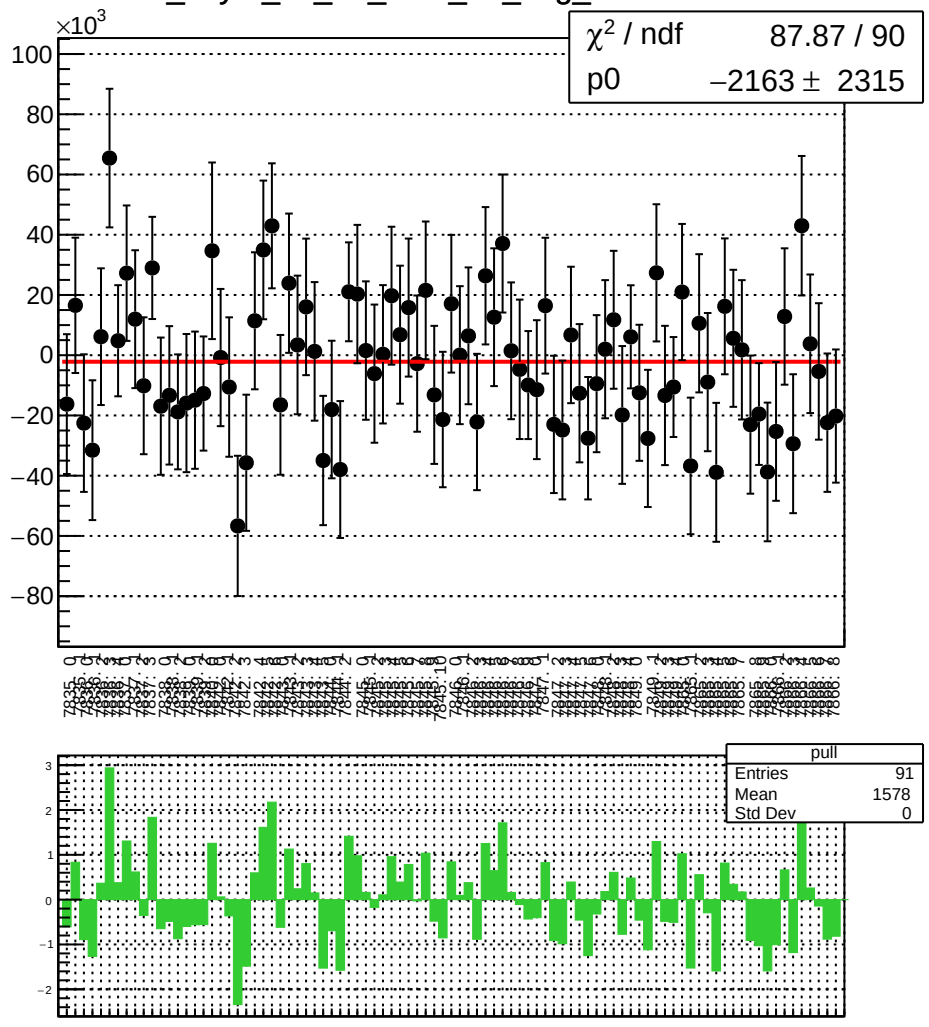

pull1D
Entries 91
Mean −0.001789
Std Dev 0.9819

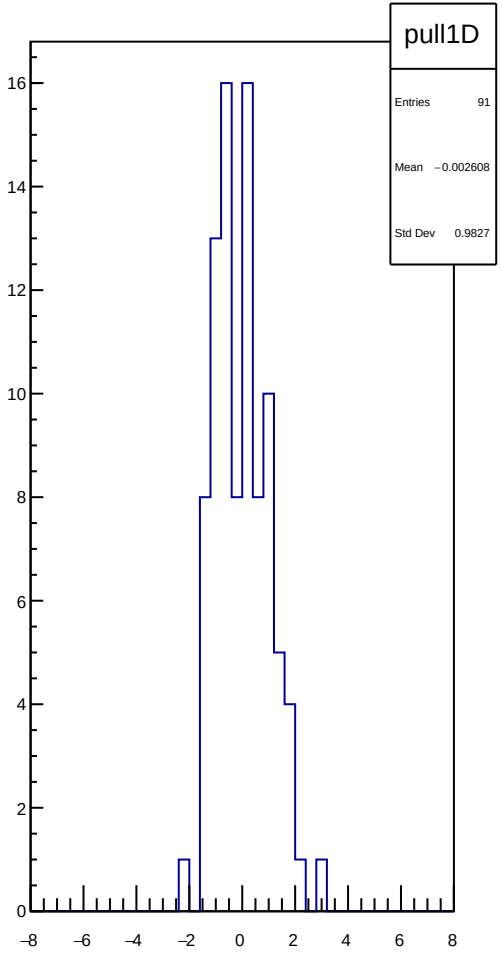

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 101.1 / 90
p0 2166 ± 1.635
2220
2200
2180
2160
2140
2120

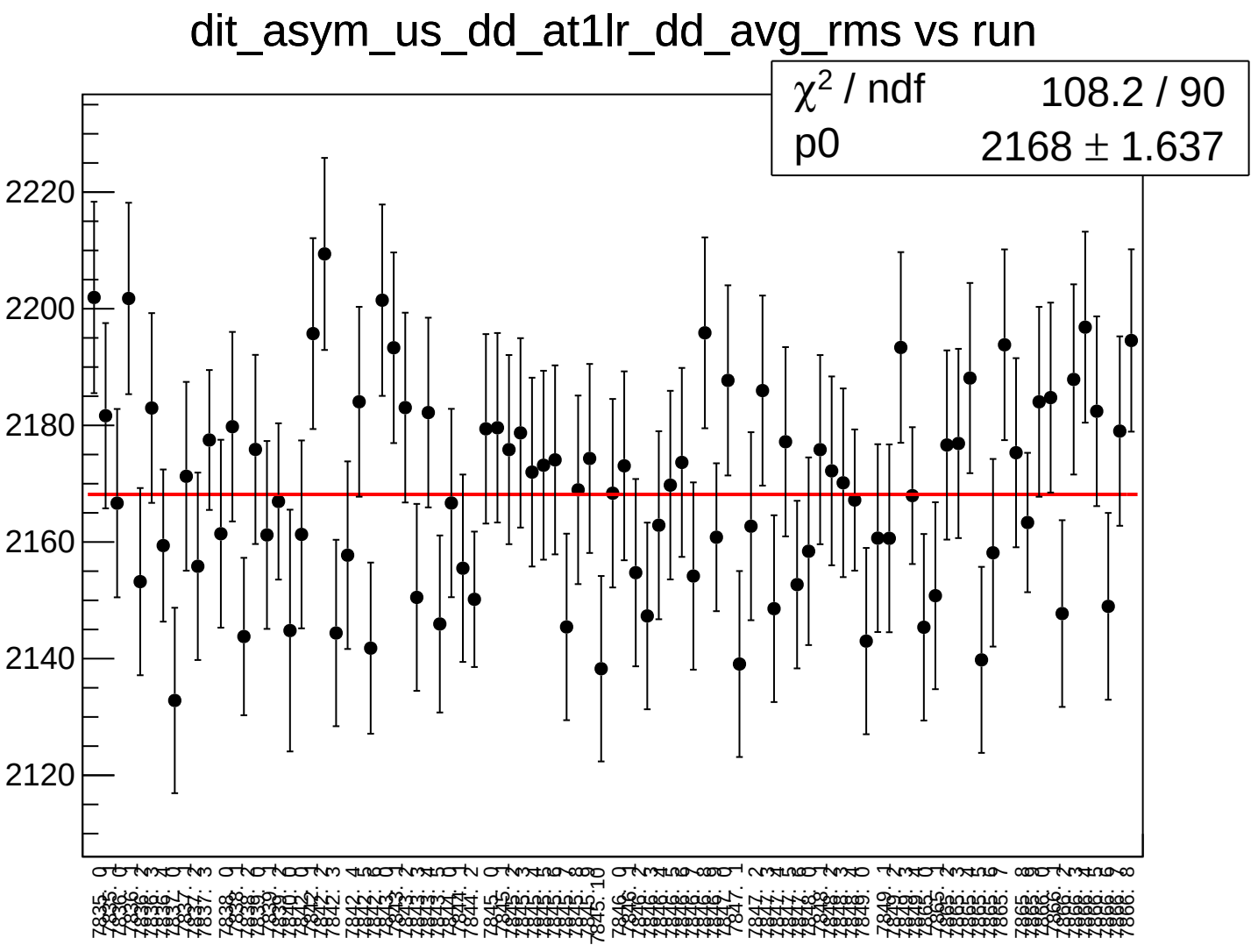

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.32 / 90
p0 2640 ± 1870
pull
Entries 91
Mean −79.89
Std Dev 0

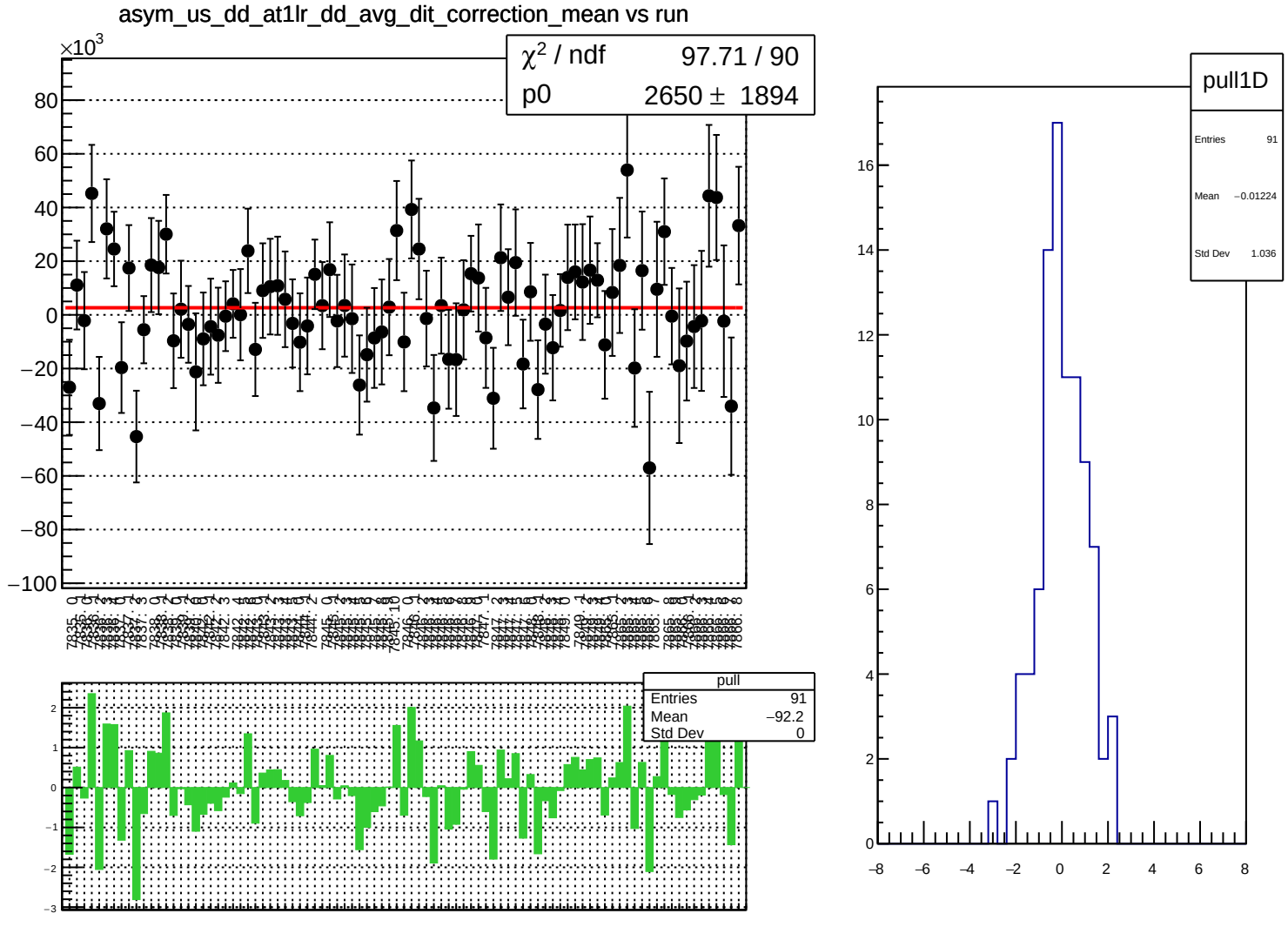

pull1D
Entries 91
Mean −0.01331
Std Dev 1.034

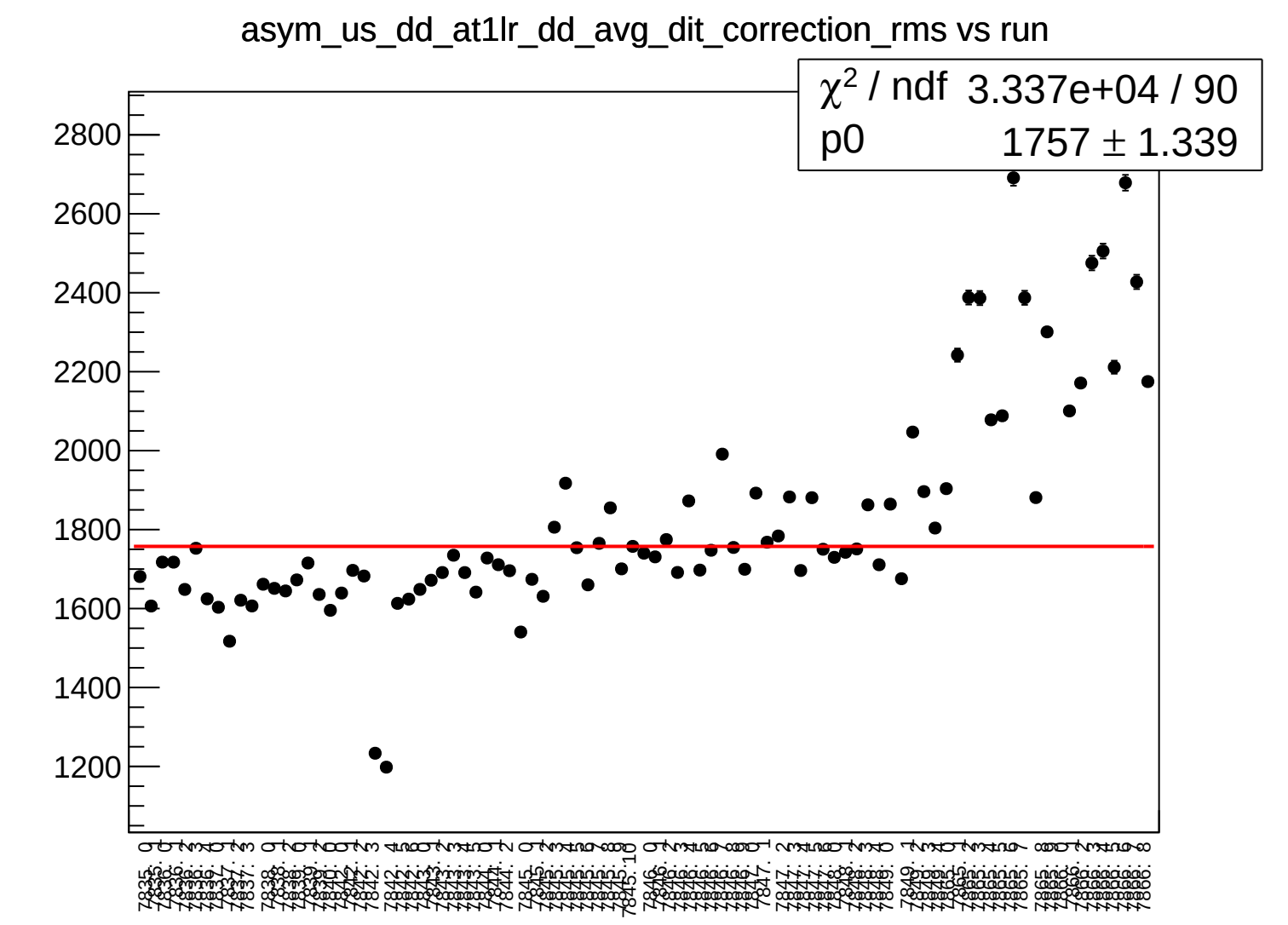

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.924e+04 / 90
p0 1732 ± 1.322
2800
2600
2400
2200
2000
1800
1600
1400
1200

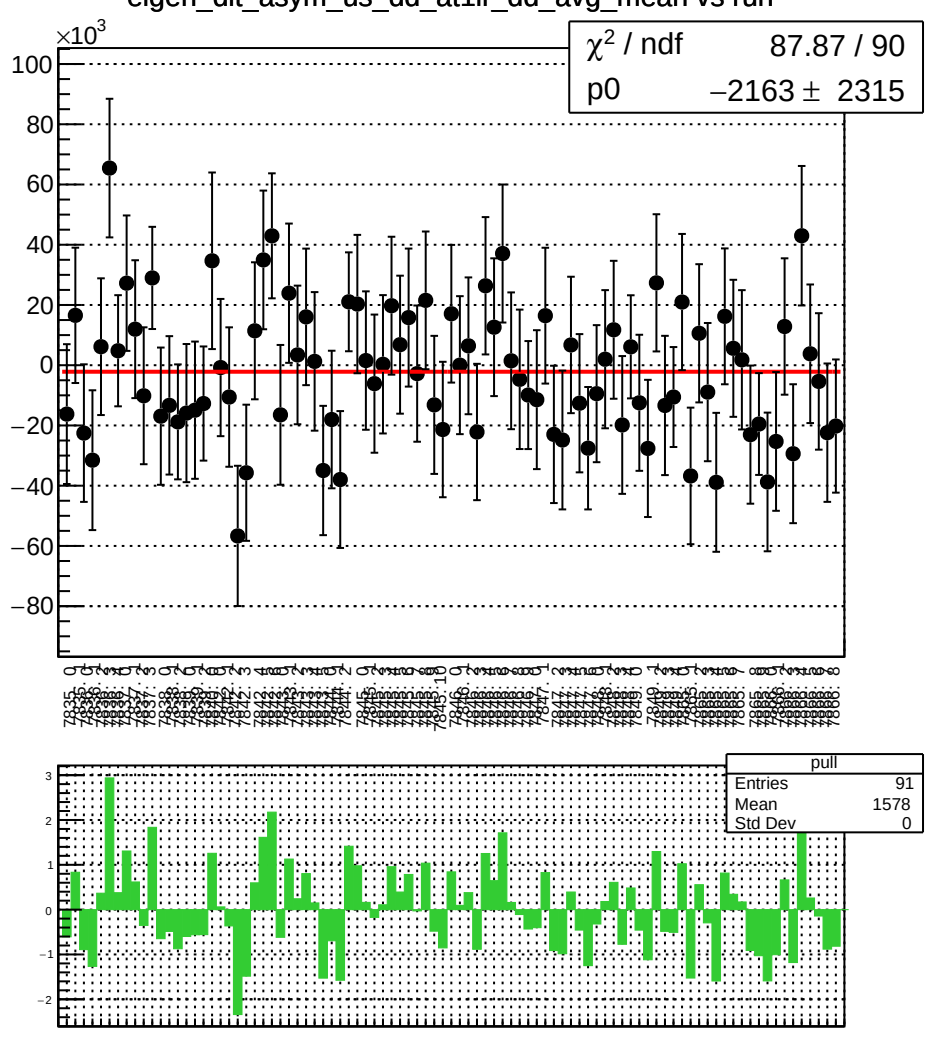

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 87.87 / 90
p0 −2163 ± 2315
pull
Entries 91
Mean 1578
Std Dev 0

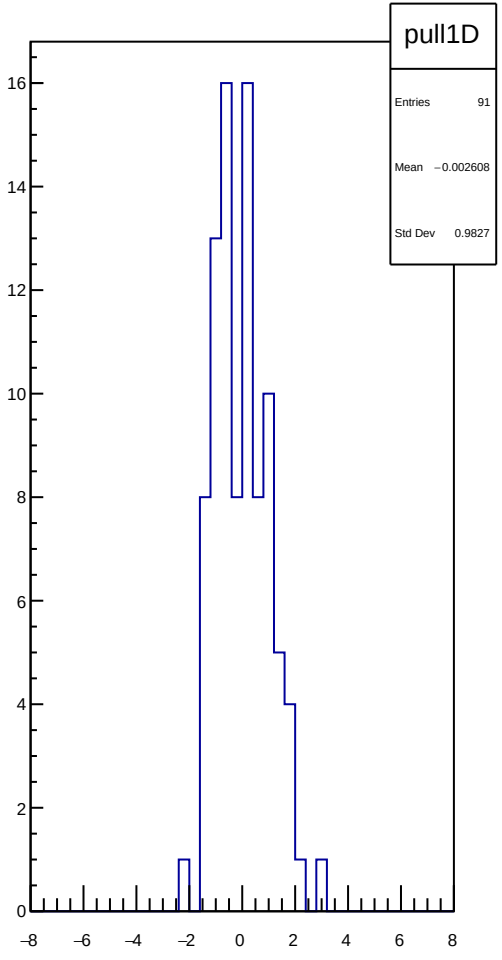

pull1D
Entries 91
Mean −0.002608
Std Dev 0.9827

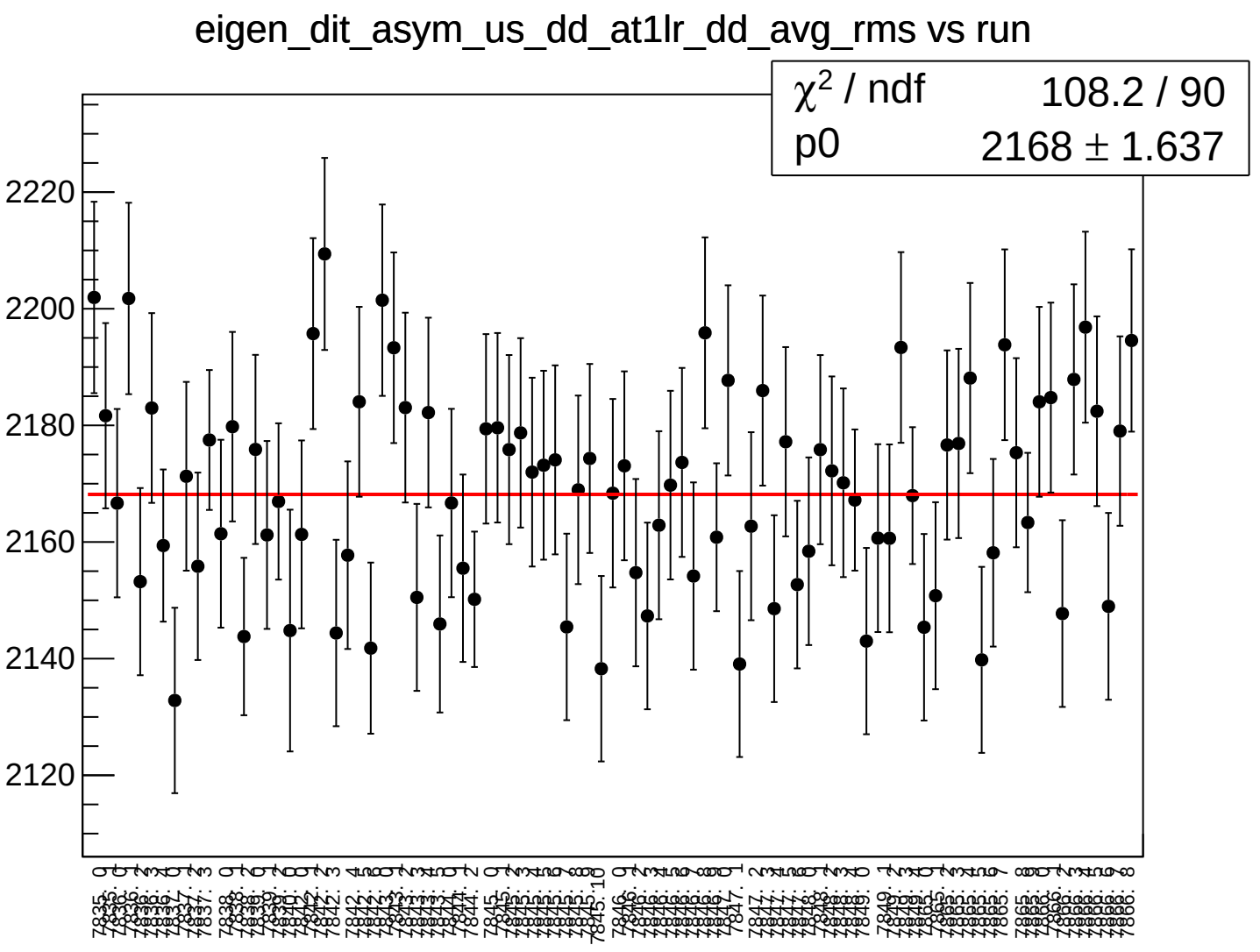

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 108.2 / 90
p0 2168 ± 1.637
2220
2200
2180
2160
2140
2120

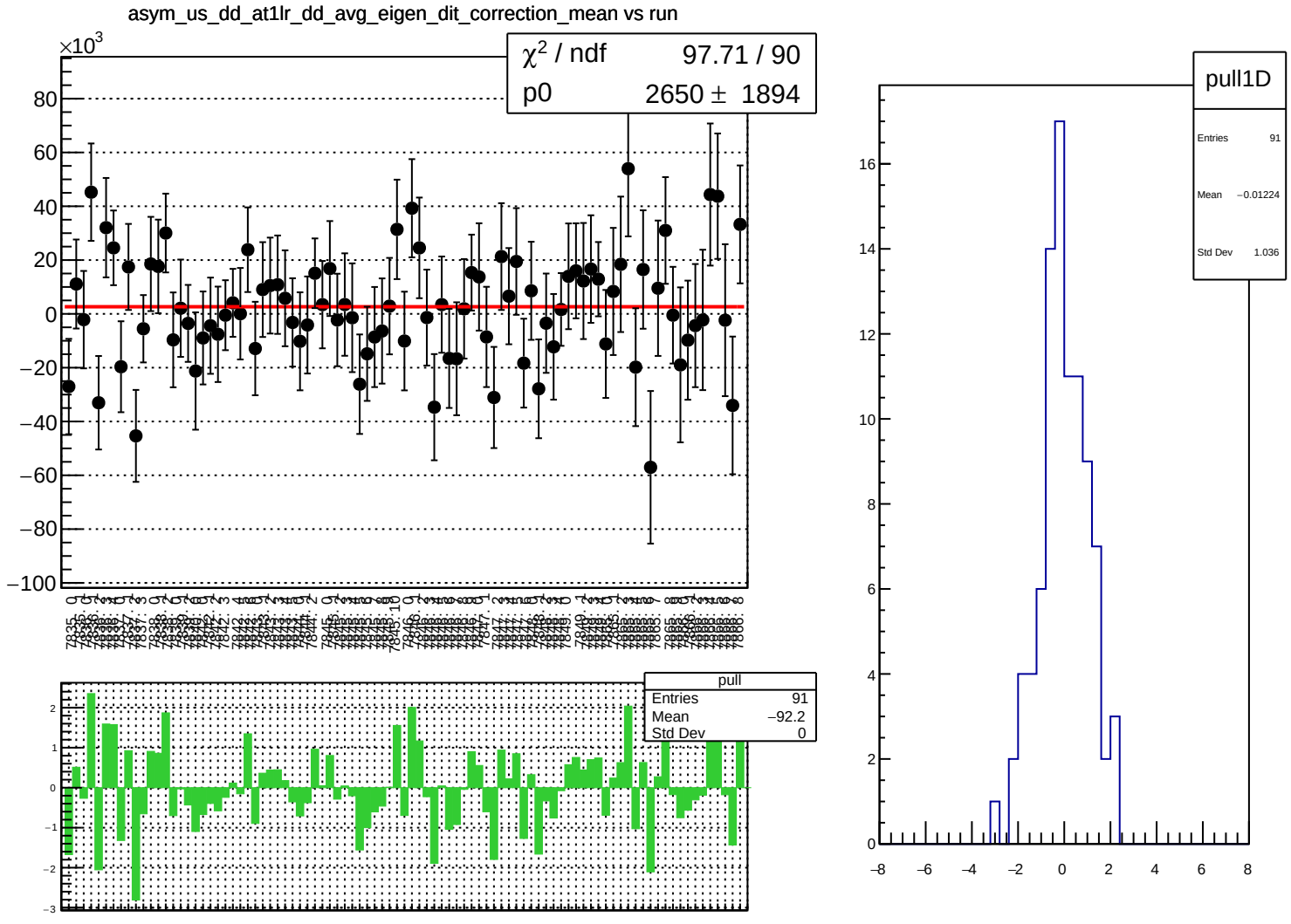

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.71 / 90
p0 2650 ± 1894
pull
Entries 91
Mean −92.2
Std Dev 0
pull1D
Entries 91
Mean −0.01224
Std Dev 1.036

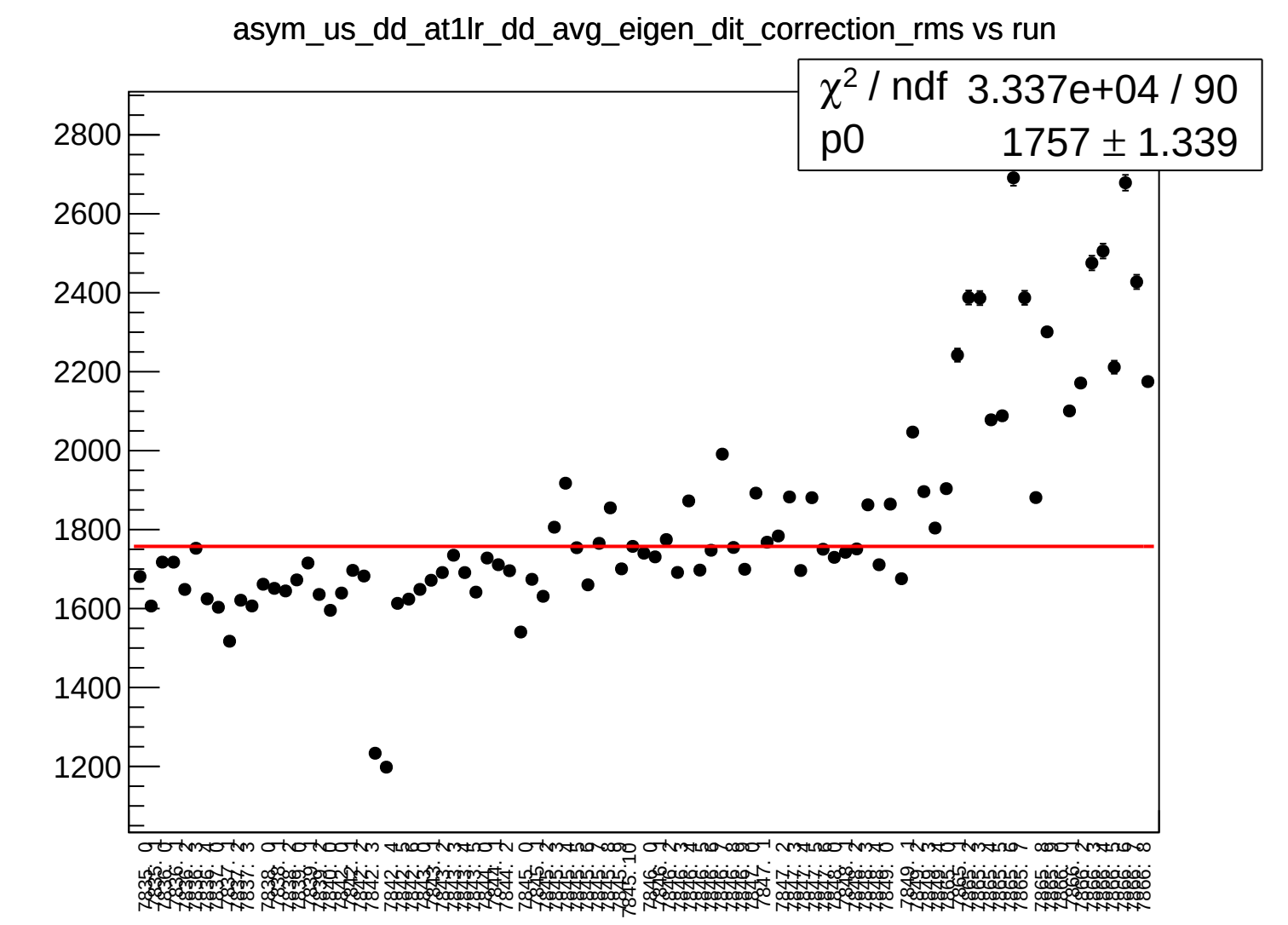

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.337e+04 / 90
p0 1757 ± 1.339
2800
2600
2400
2200
2000
1800
1600
1400
1200

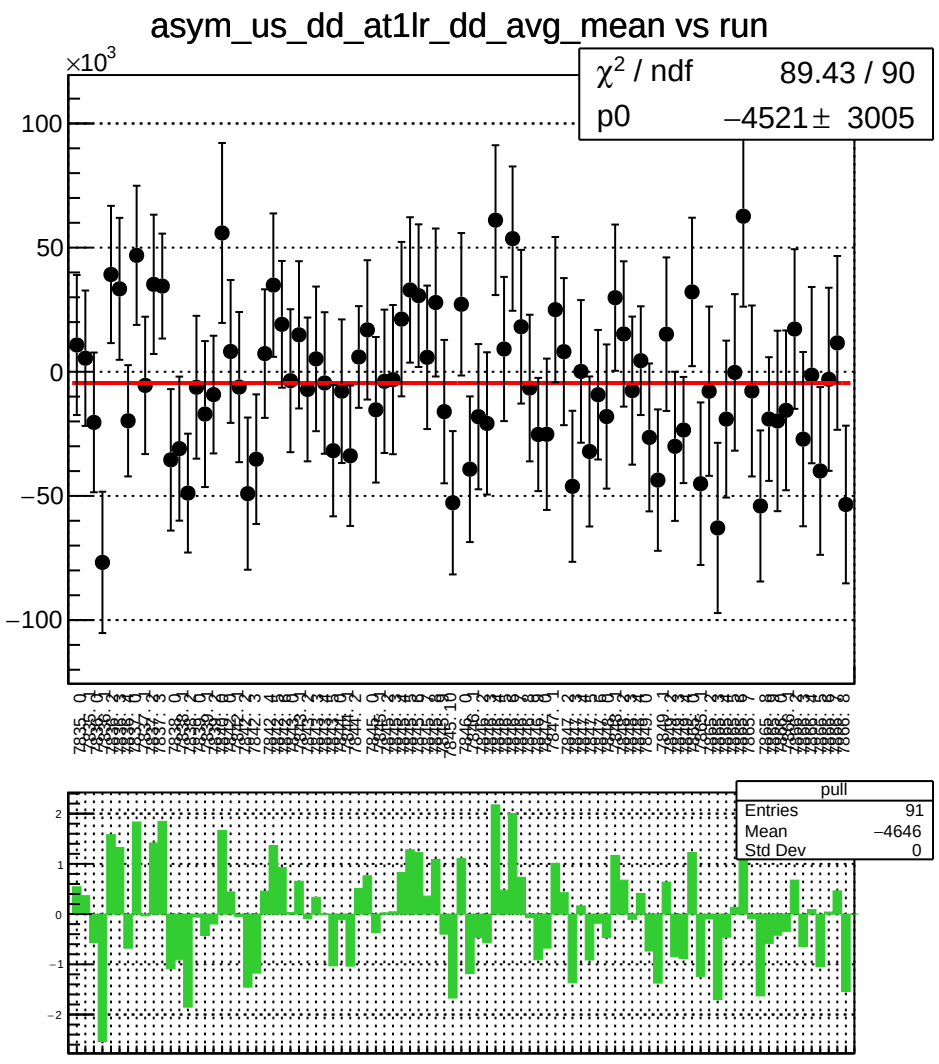

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 87.87 / 90
p0 −2163 ± 2315
pull
Entries 91
Mean 1578
Std Dev 0

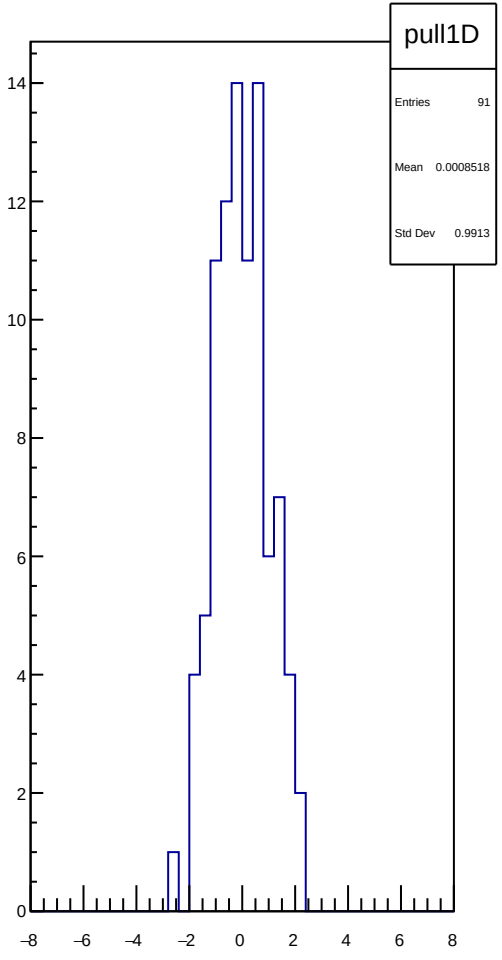

pull1D
Entries 91
Mean −0.002608
Std Dev 0.9827

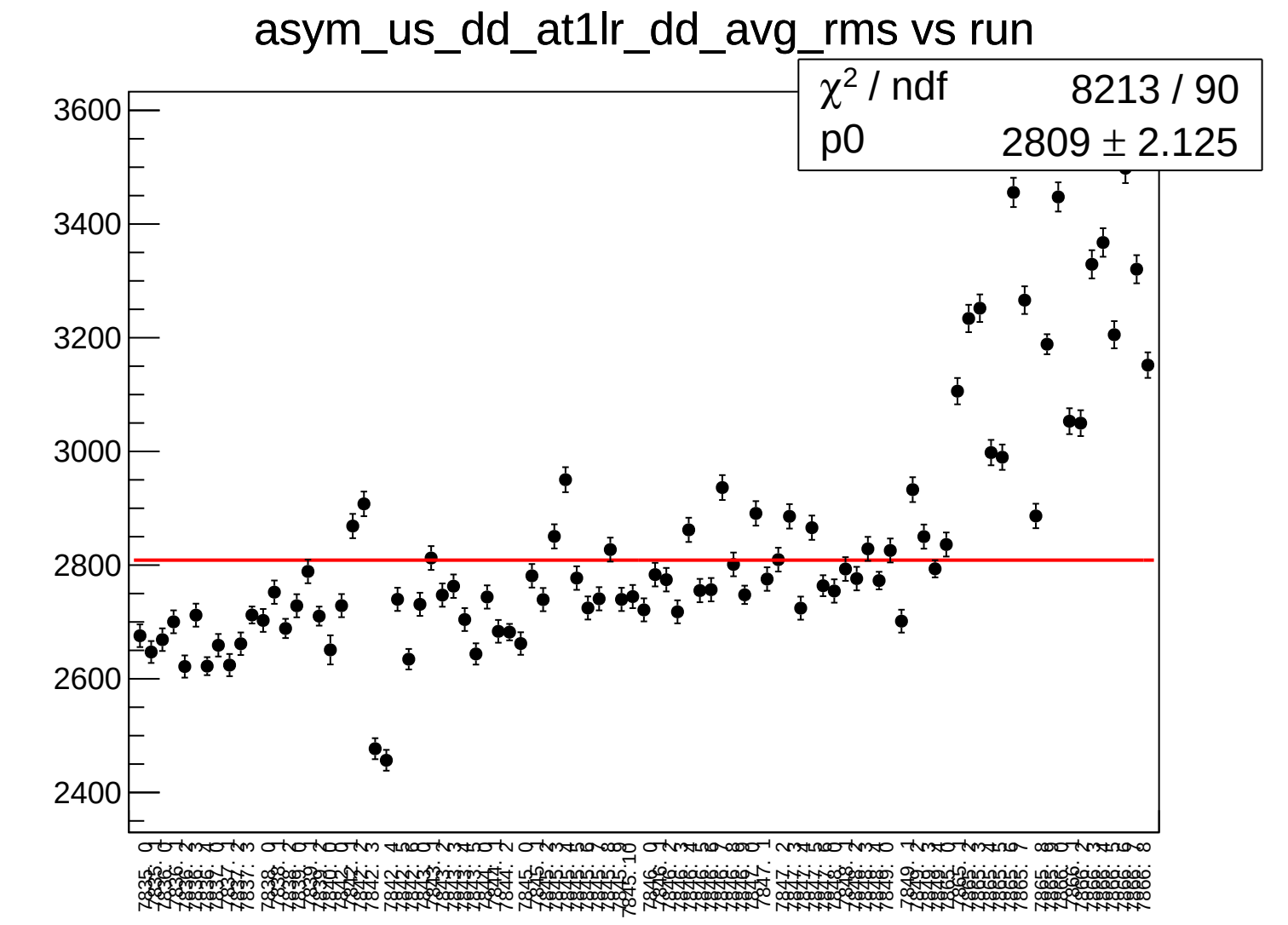

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 108.2 / 90
p0 2168 ± 1.637
2220
2200
2180
2160
2140
2120

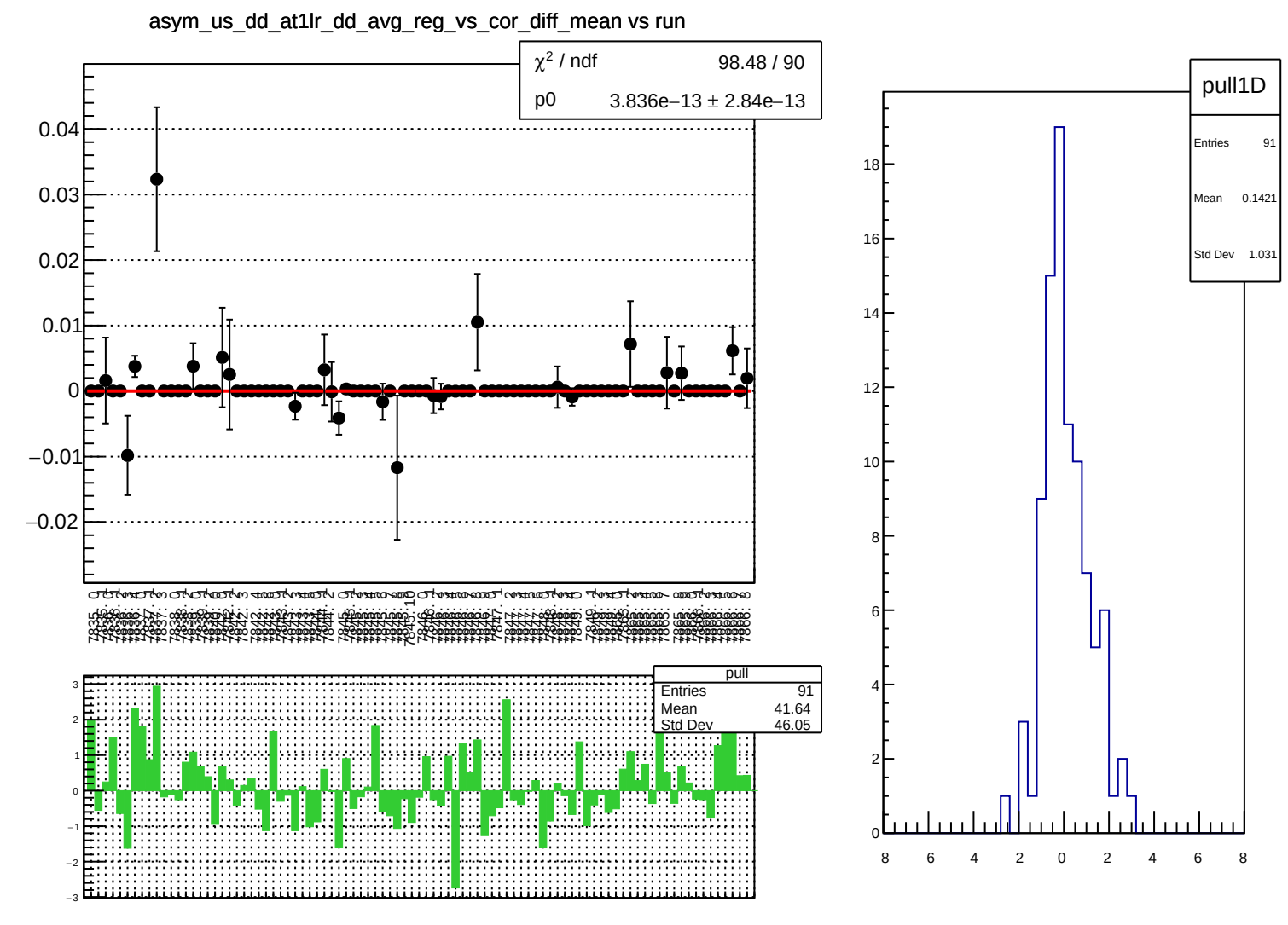

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.71 / 90
p0 2650 ± 1894
pull
Entries 91
Mean −92.2
Std Dev 0
pull1D
Entries 91
Mean −0.01224
Std Dev 1.036

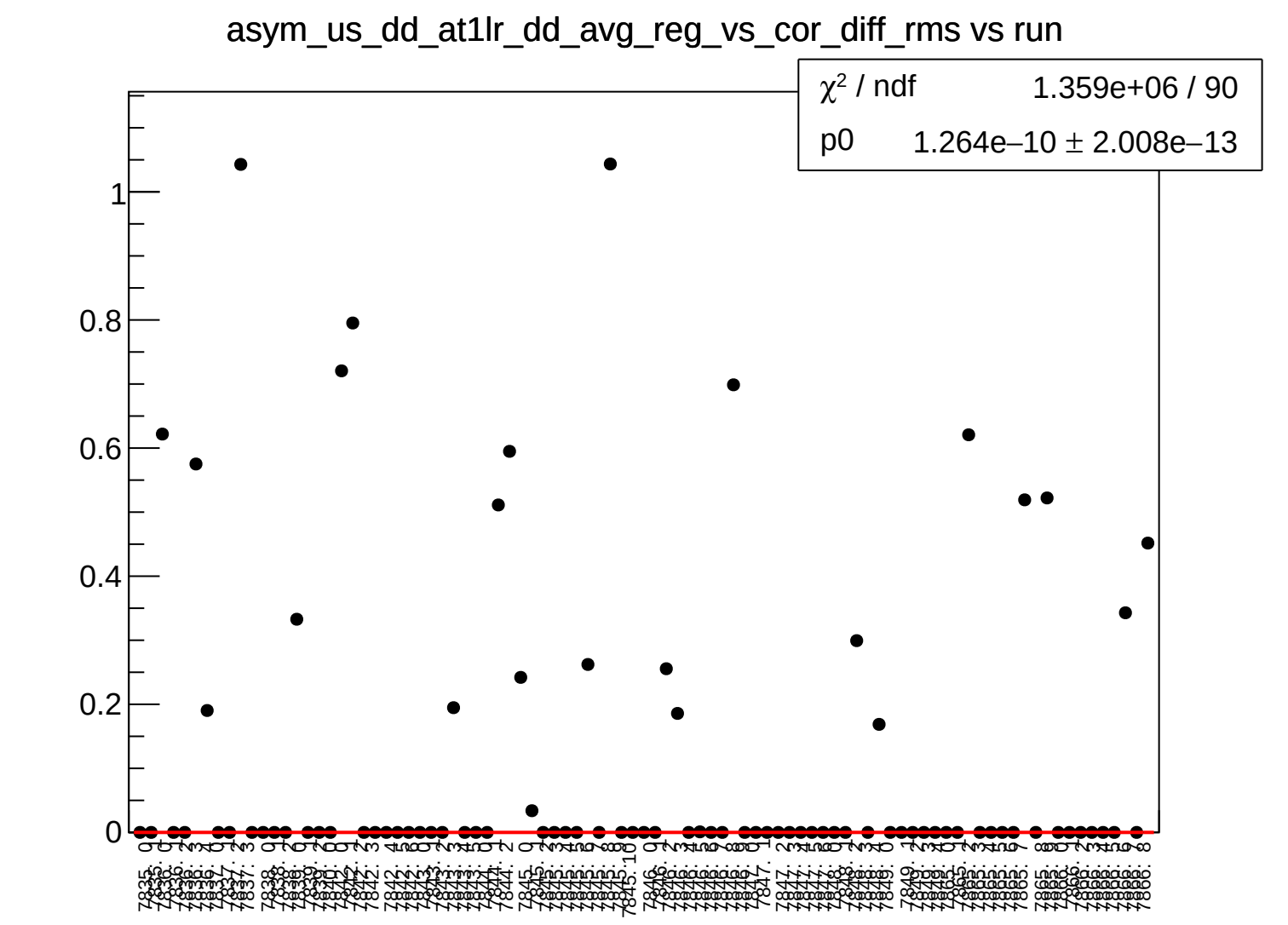

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.337e+04 / 90
p0 1757 ± 1.339
2800
2600
2400
2200
2000
1800
1600
1400
1200

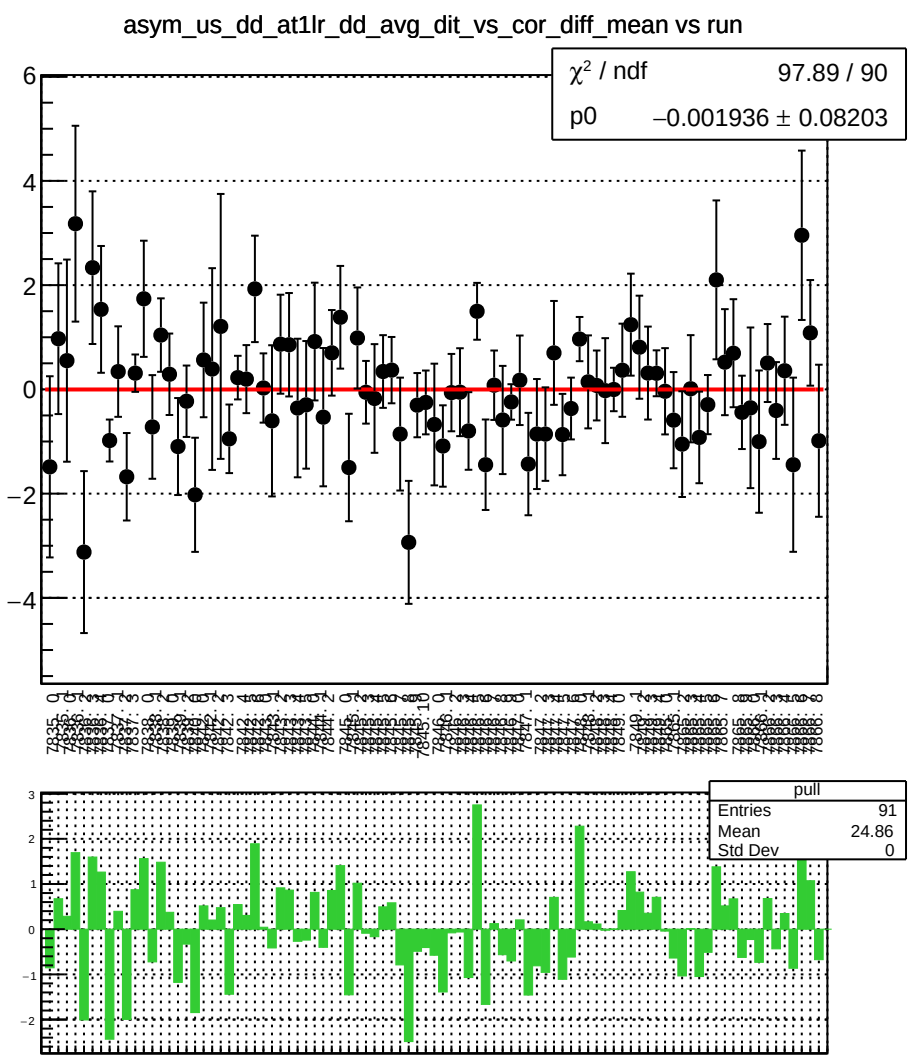

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.43 / 90
p0 −4521 ± 3005
×10³
100
50
0
−50
−100
pull
Entries 91
Mean −4646
Std Dev 0
2
1
0
−1
−2

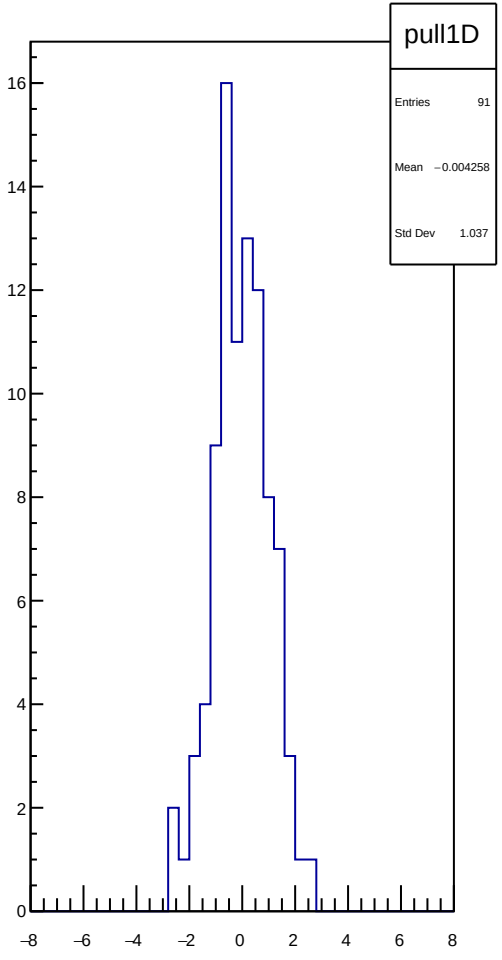

pull1D
Entries 91
Mean 0.0008518
Std Dev 0.9913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

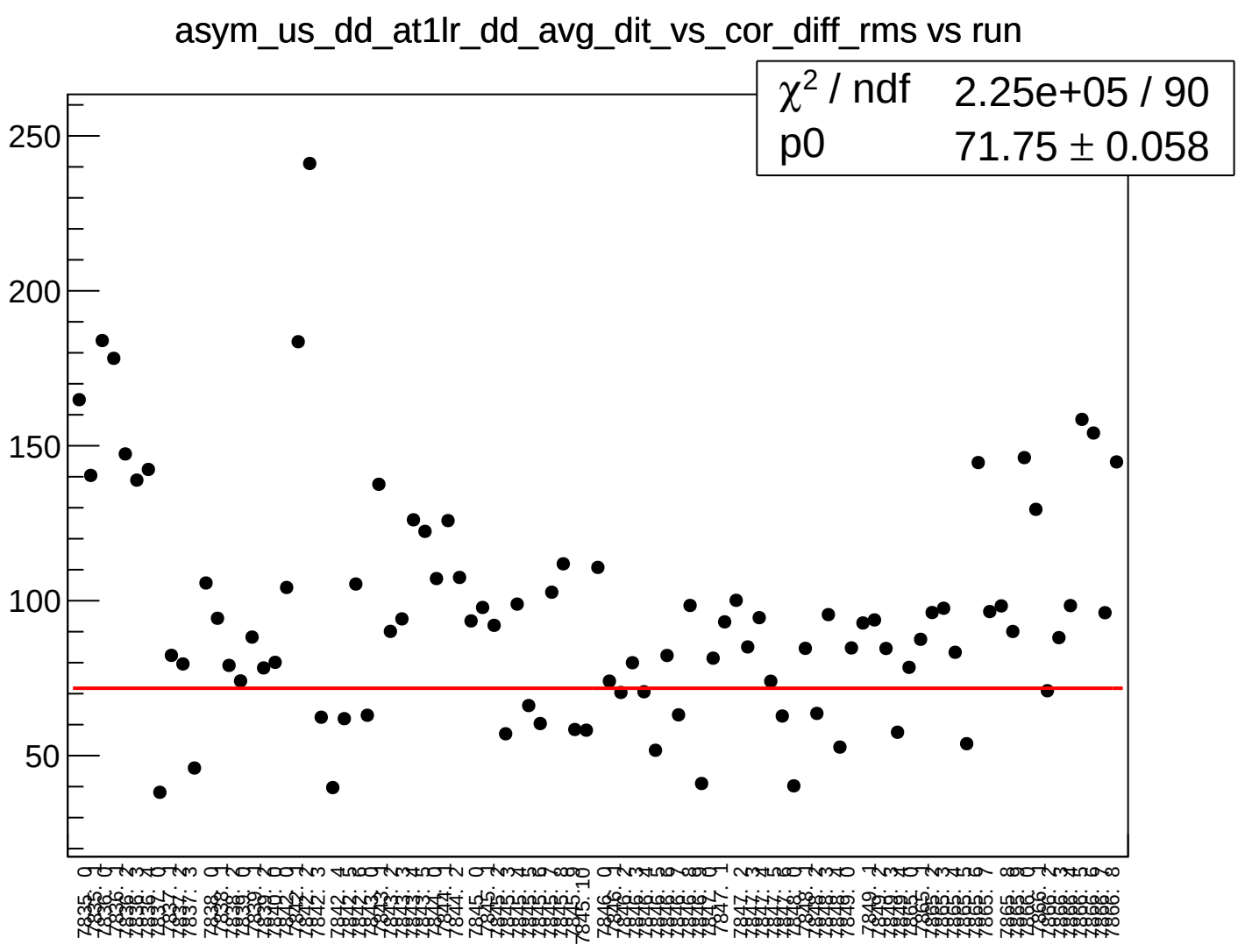

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 8213 / 90
p0 2809 ± 2.125
3600
3400
3200
3000
2800
2600
2400

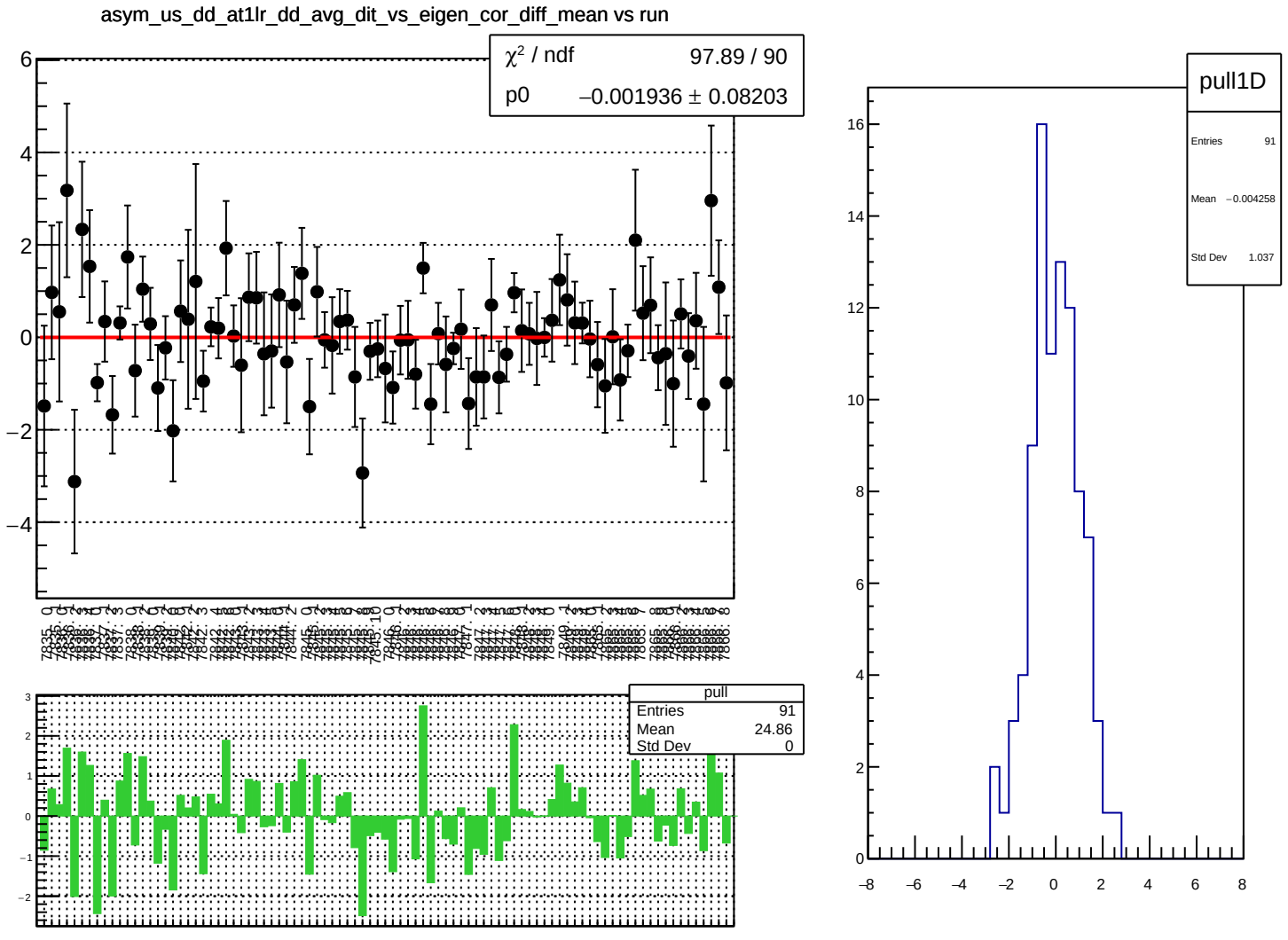

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.48 / 90
p0 3.836e−13 ± 2.84e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 41.64
Std Dev 46.05
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.1421
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

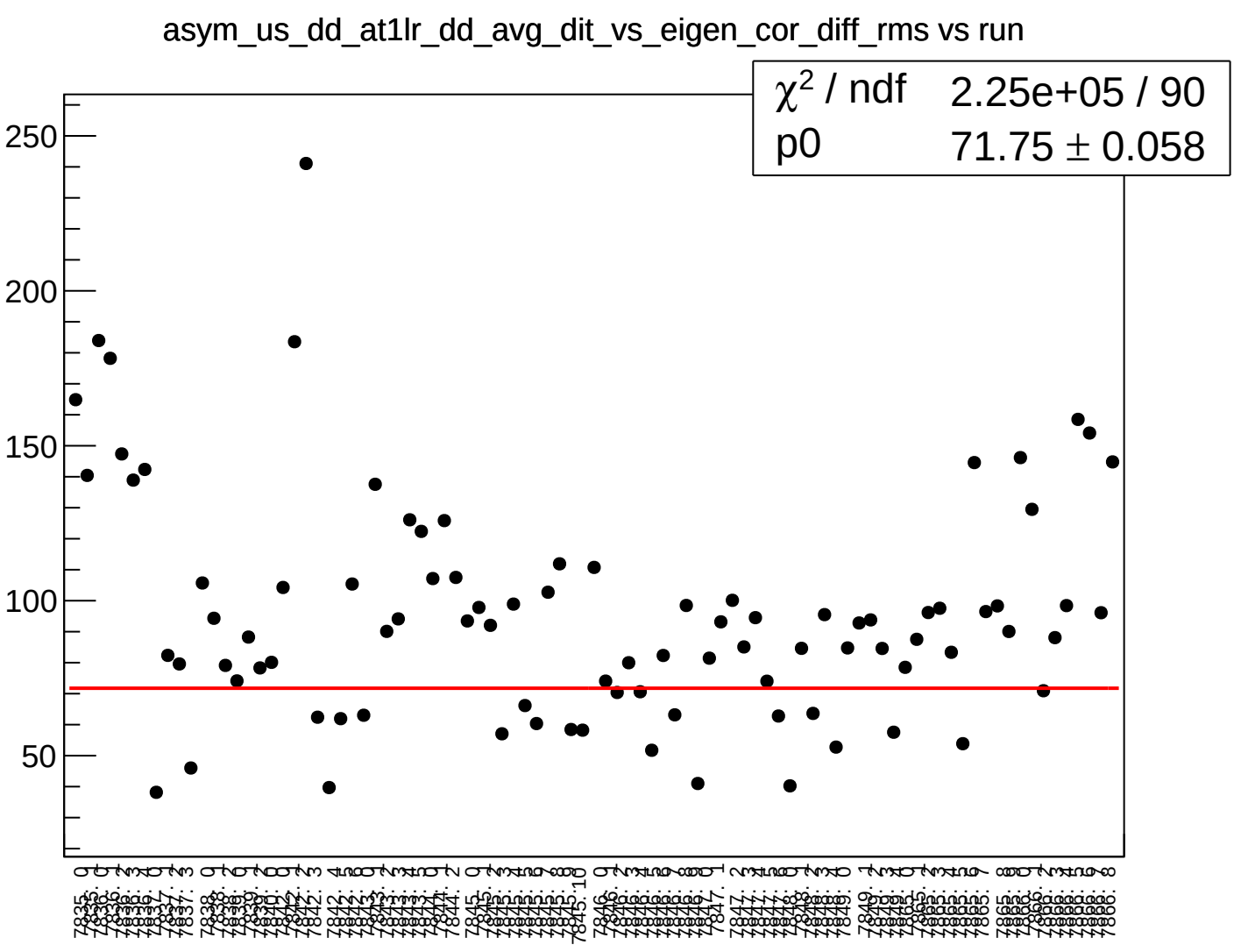

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.359e+06 / 90
p0 1.264e−10 ± 2.008e−13
1
0.8
0.6
0.4
0.2
0

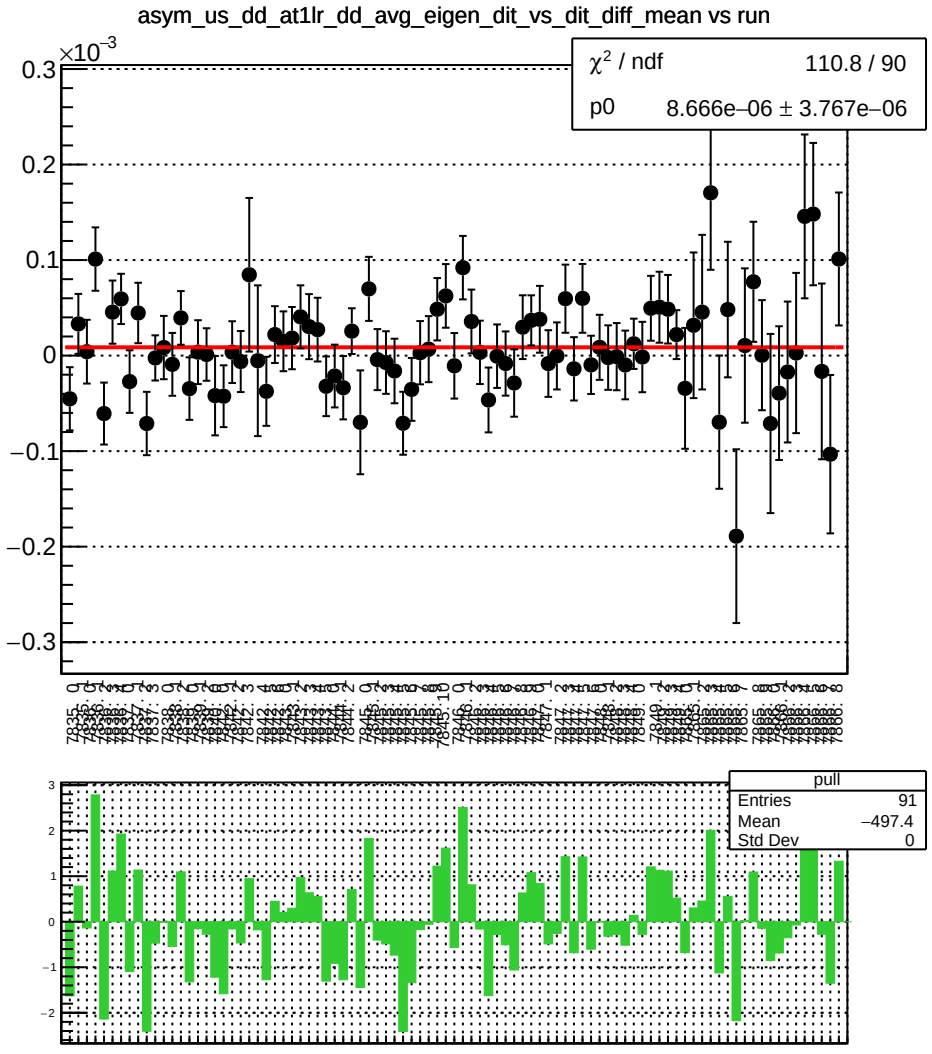

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.89 / 90
p0 −0.001936 ± 0.08203
pull
Entries 91
Mean 24.86
Std Dev 0

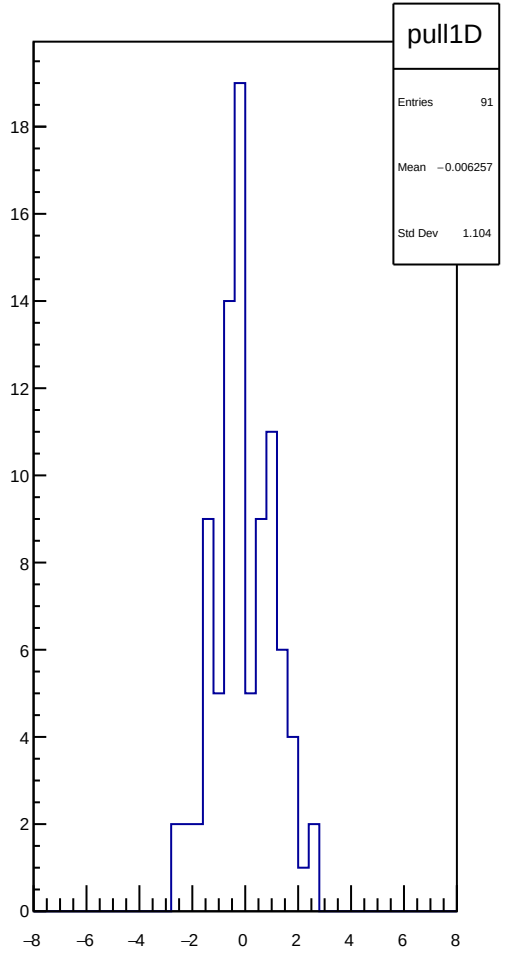

pull1D
Entries 91
Mean −0.004258
Std Dev 1.037

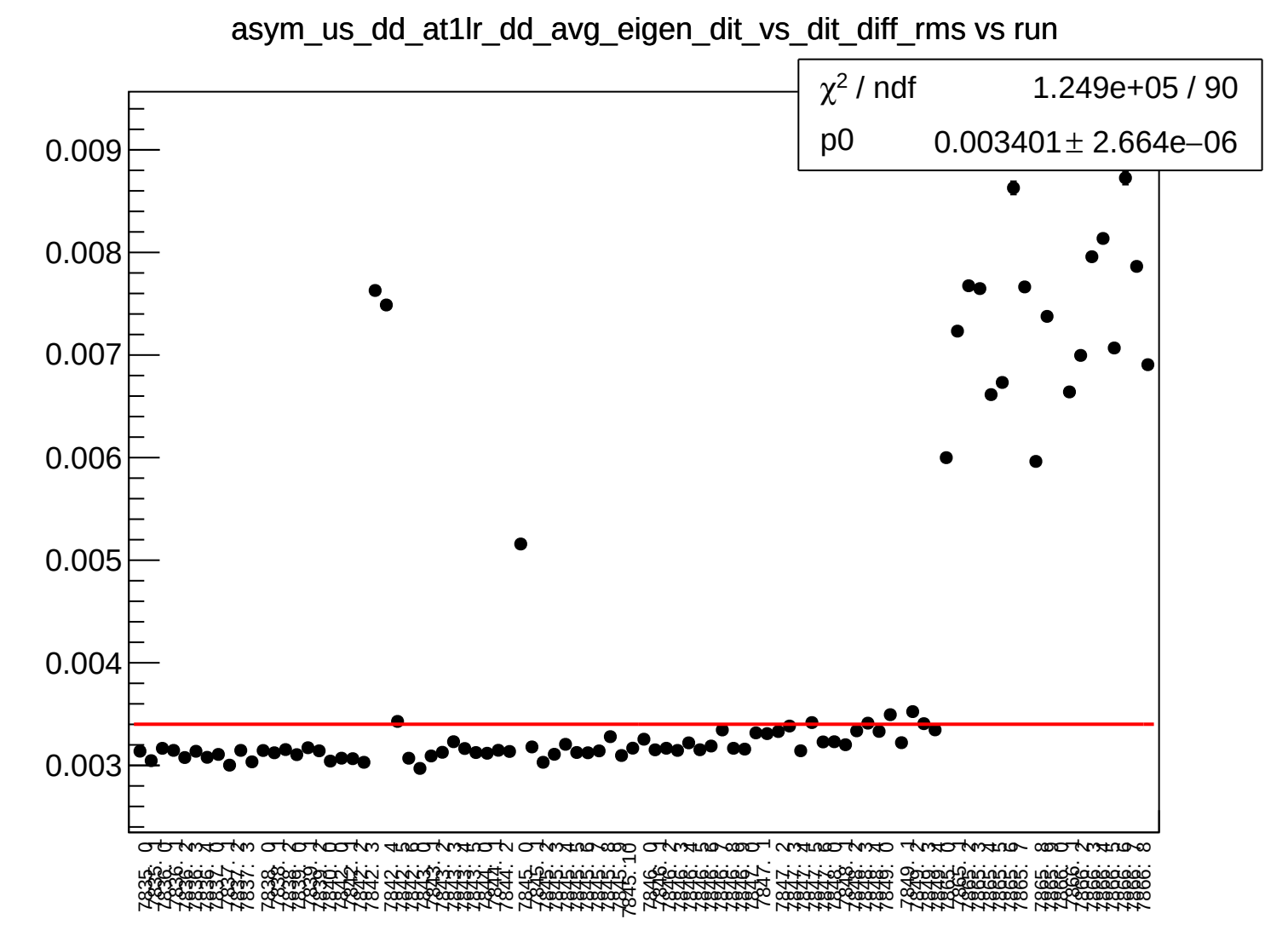

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 90
p0 71.75 ± 0.058
250
200
150
100
50

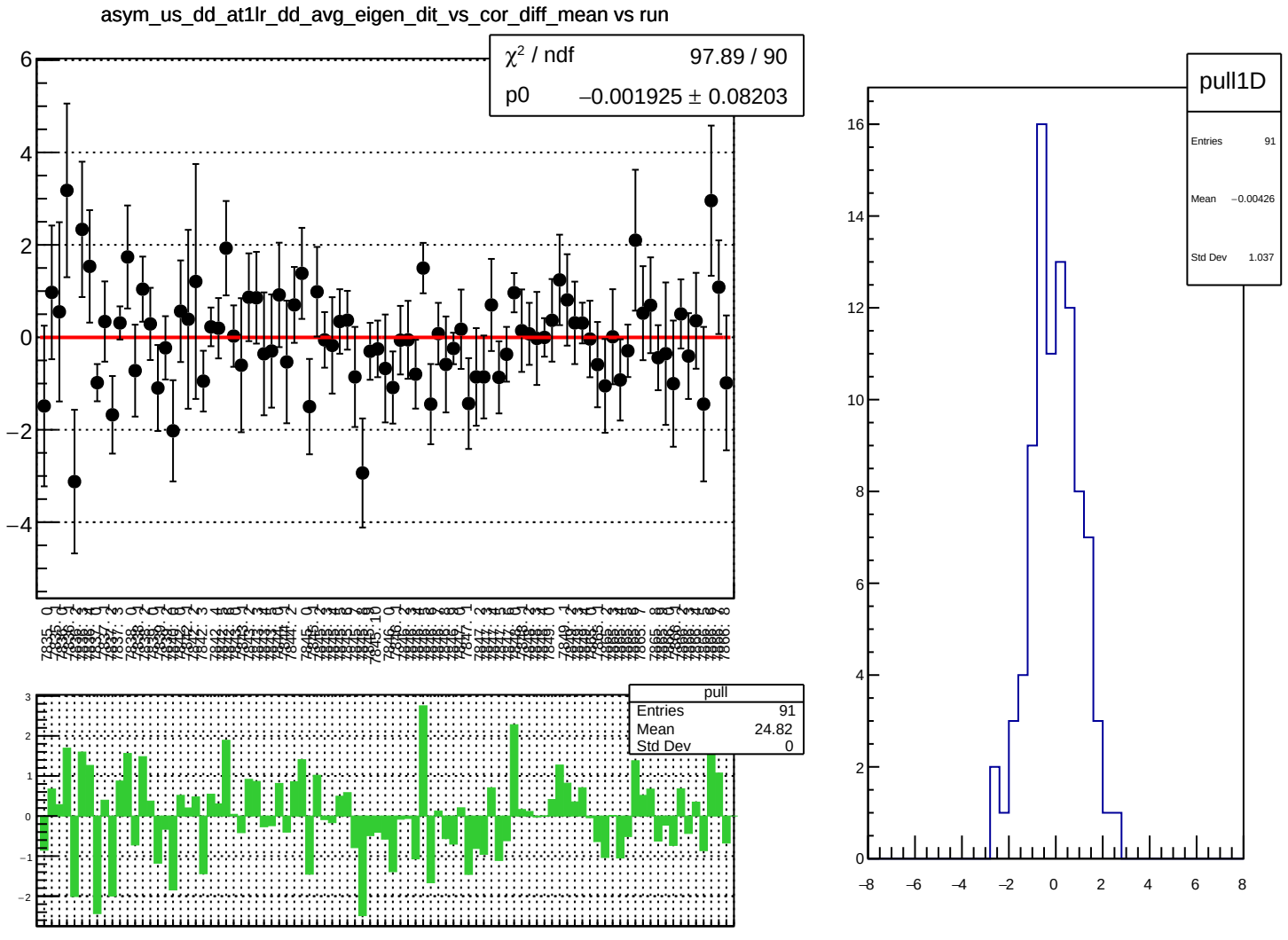

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.89 / 90
p0 −0.001936 ± 0.08203
pull
Entries 91
Mean 24.86
Std Dev 0
pull1D
Entries 91
Mean −0.004258
Std Dev 1.037

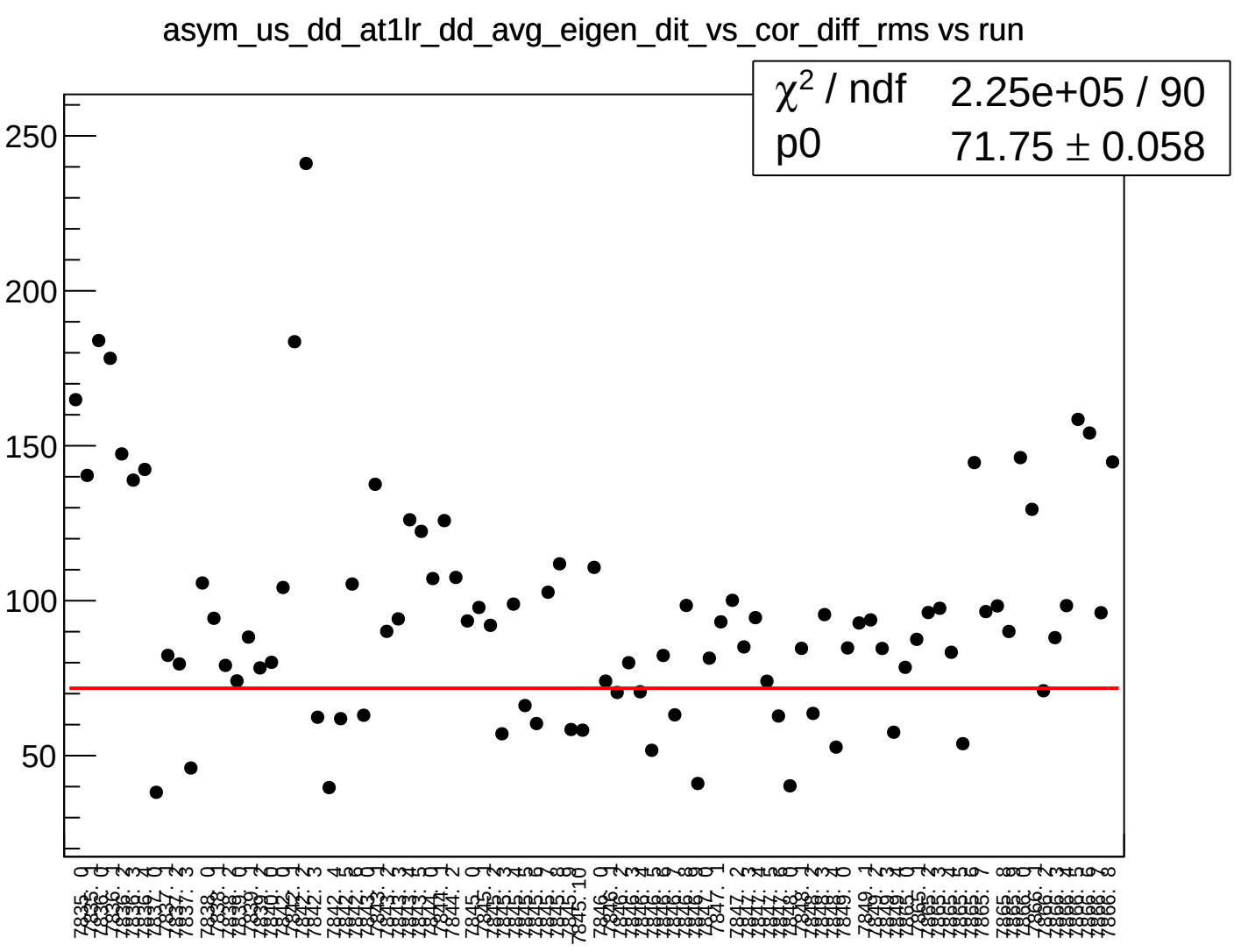

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 90
p0 71.75 ± 0.058
250
200
150
100
50

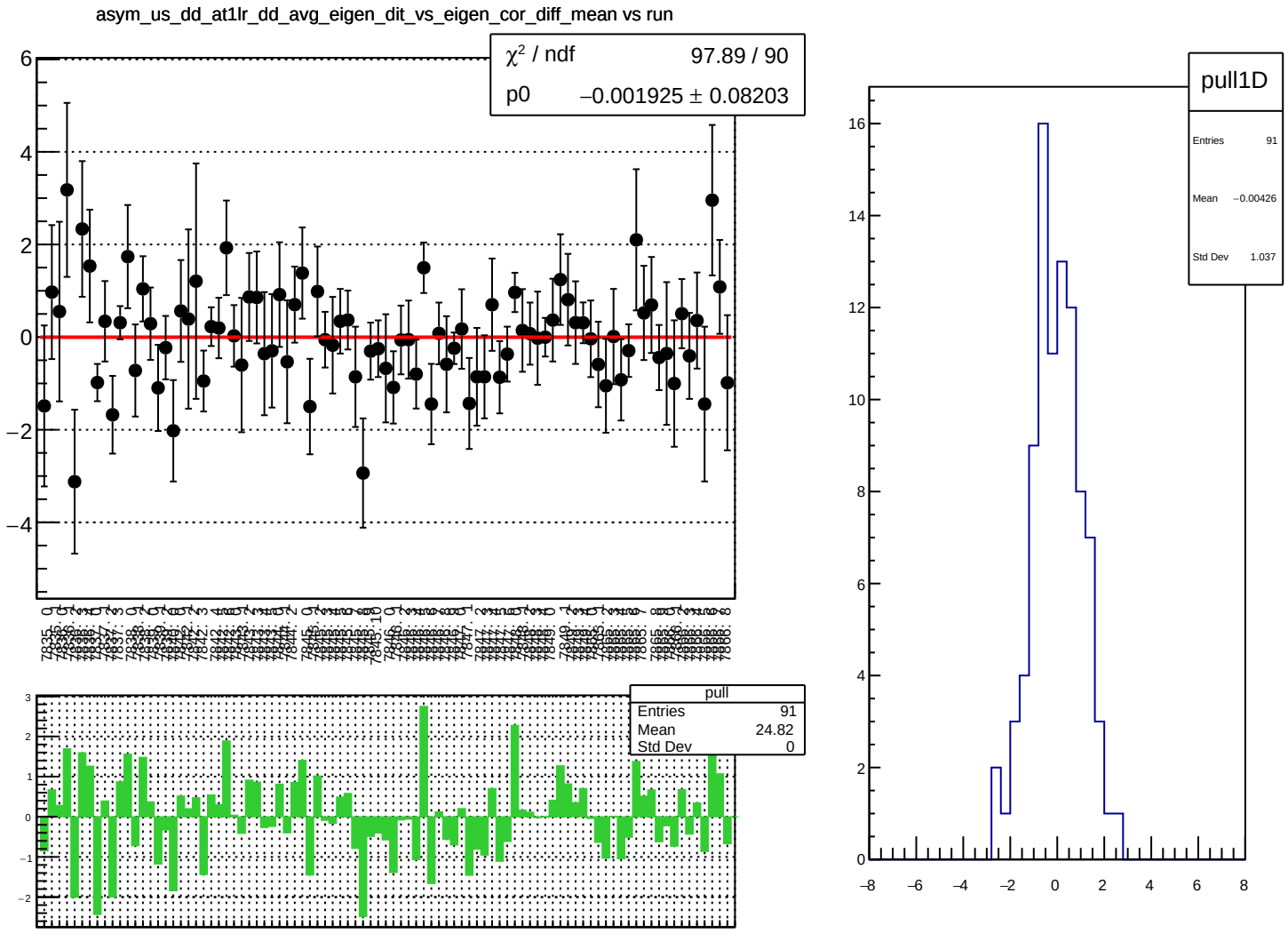

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.8 / 90
p0 8.666e−06 ± 3.767e−06
pull
Entries 91
Mean −497.4
Std Dev 0

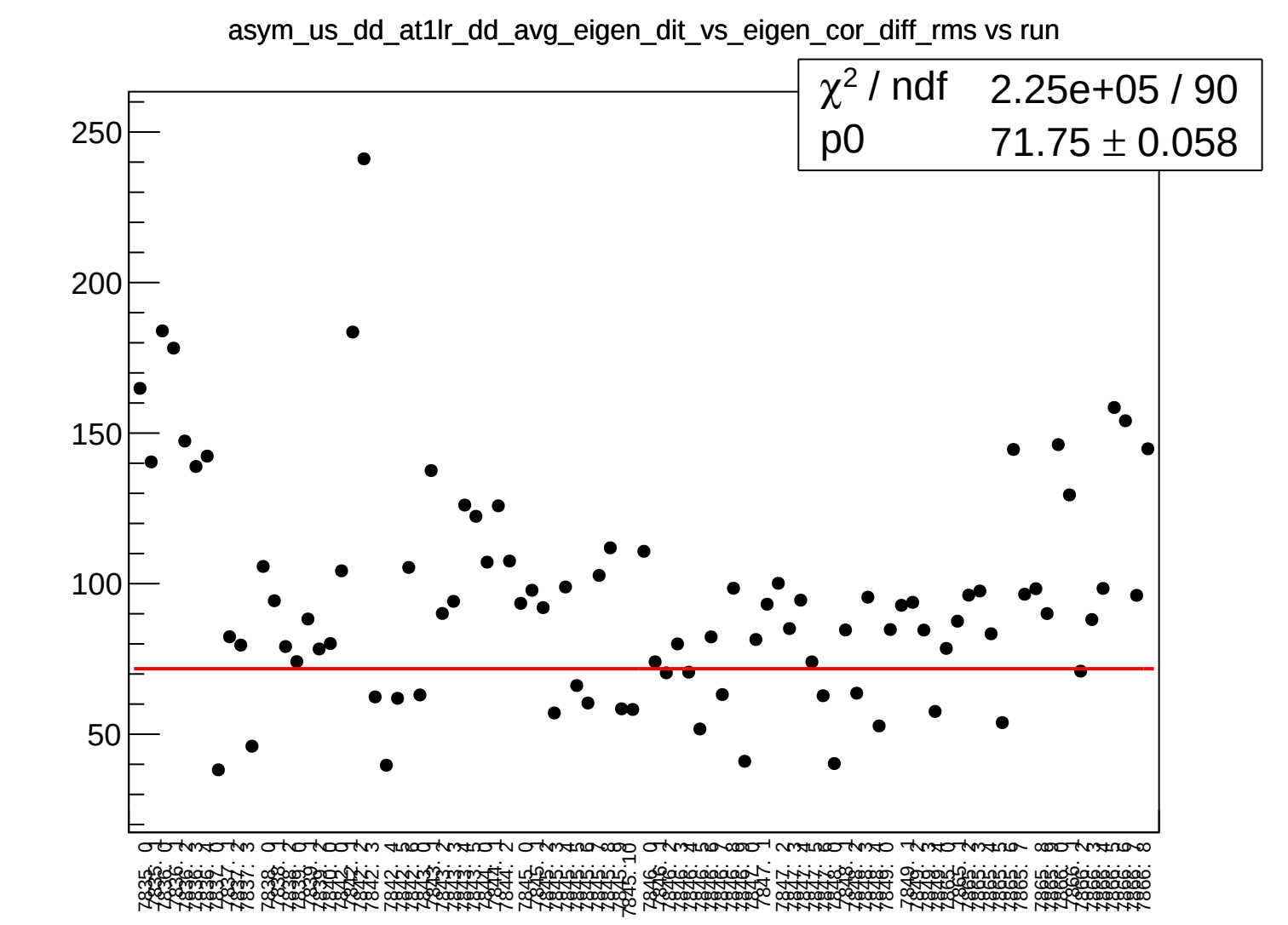

pull1D
Entries 91
Mean −0.006257
Std Dev 1.104

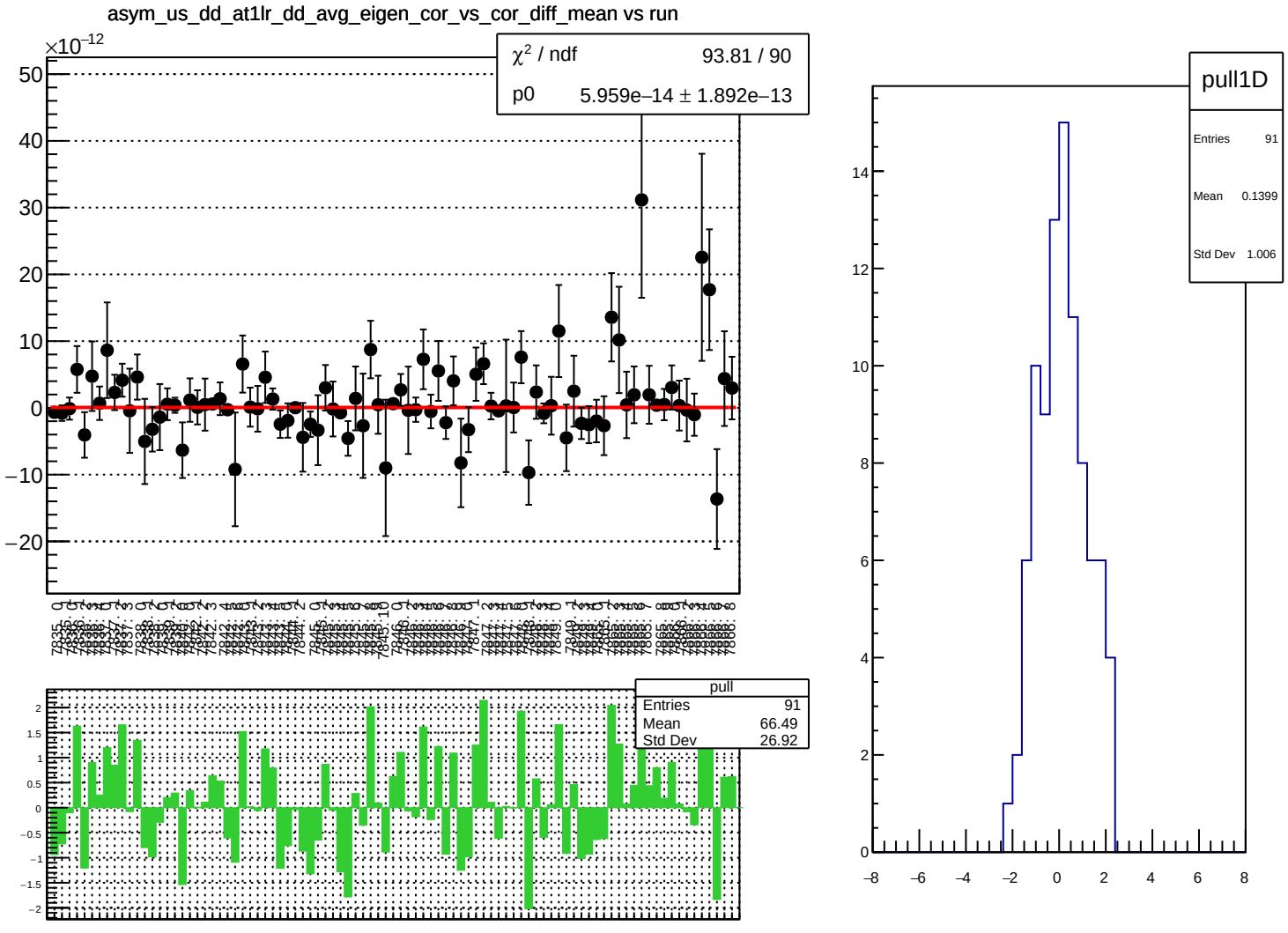

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.249e+05 / 90
p0 0.003401 ± 2.664e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

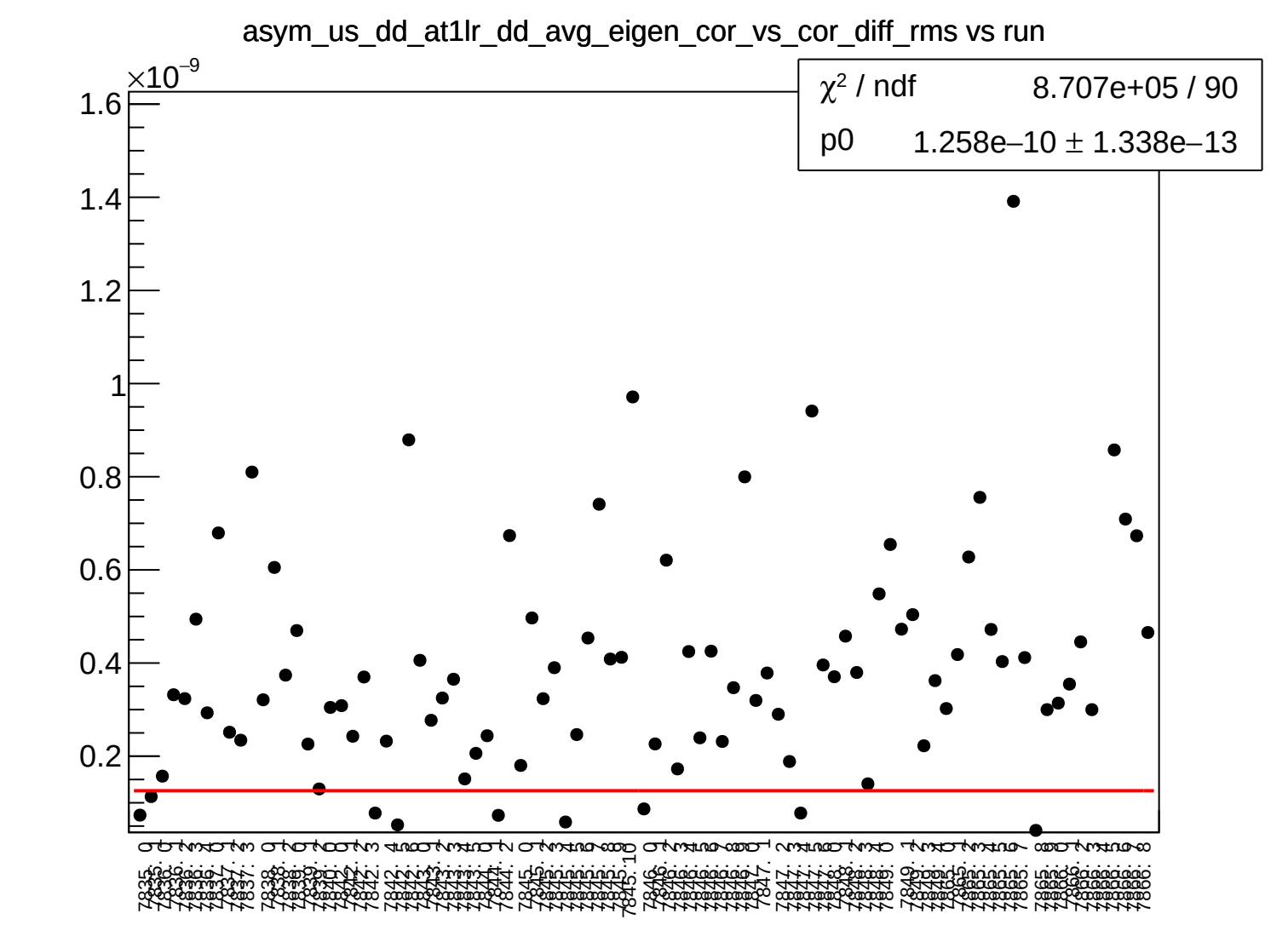

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.89 / 90
p0 −0.001925 ± 0.08203
pull
Entries 91
Mean 24.82
Std Dev 0
pull1D
Entries 91
Mean −0.00426
Std Dev 1.037

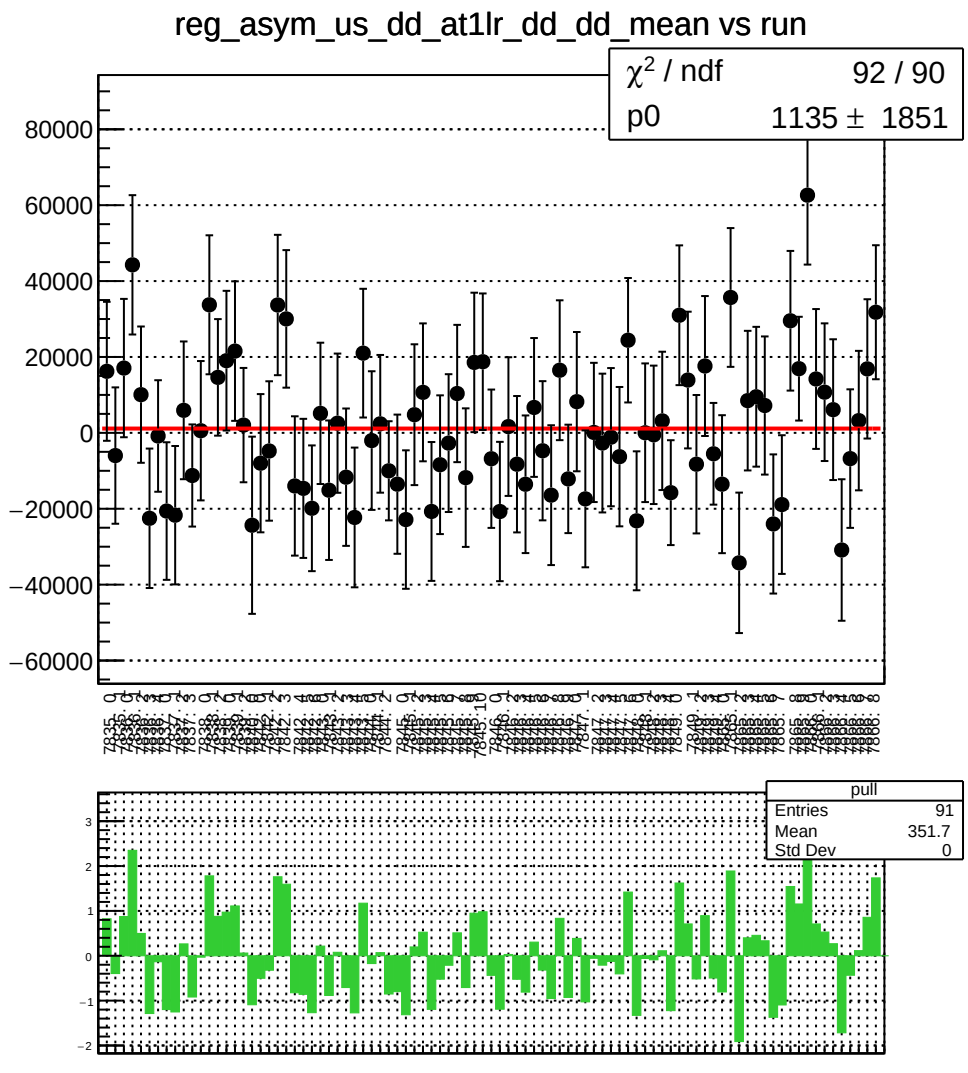

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 90
p0 71.75 ± 0.058
250
200
150
100
50

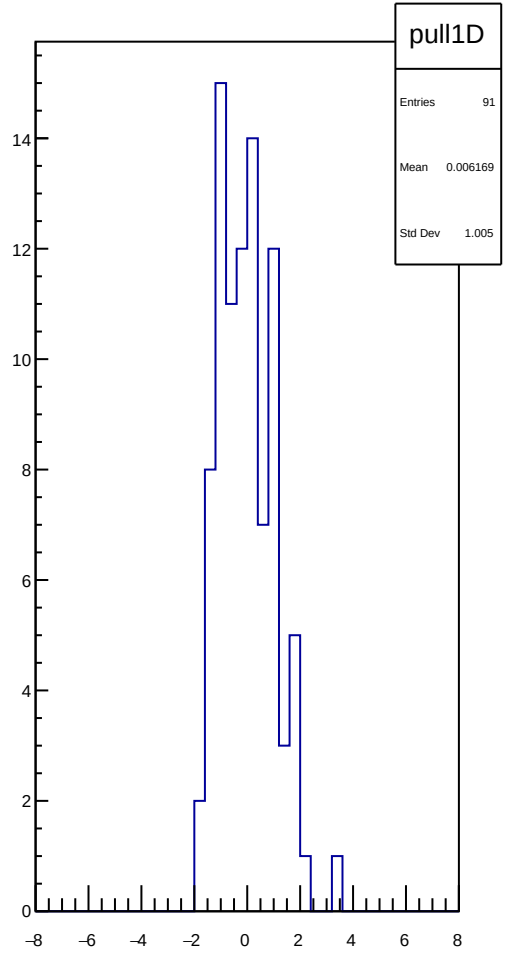

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.89 / 90
p0 −0.001925 ± 0.08203
pull
Entries 91
Mean 24.82
Std Dev 0
pull1D
Entries 91
Mean −0.00426
Std Dev 1.037

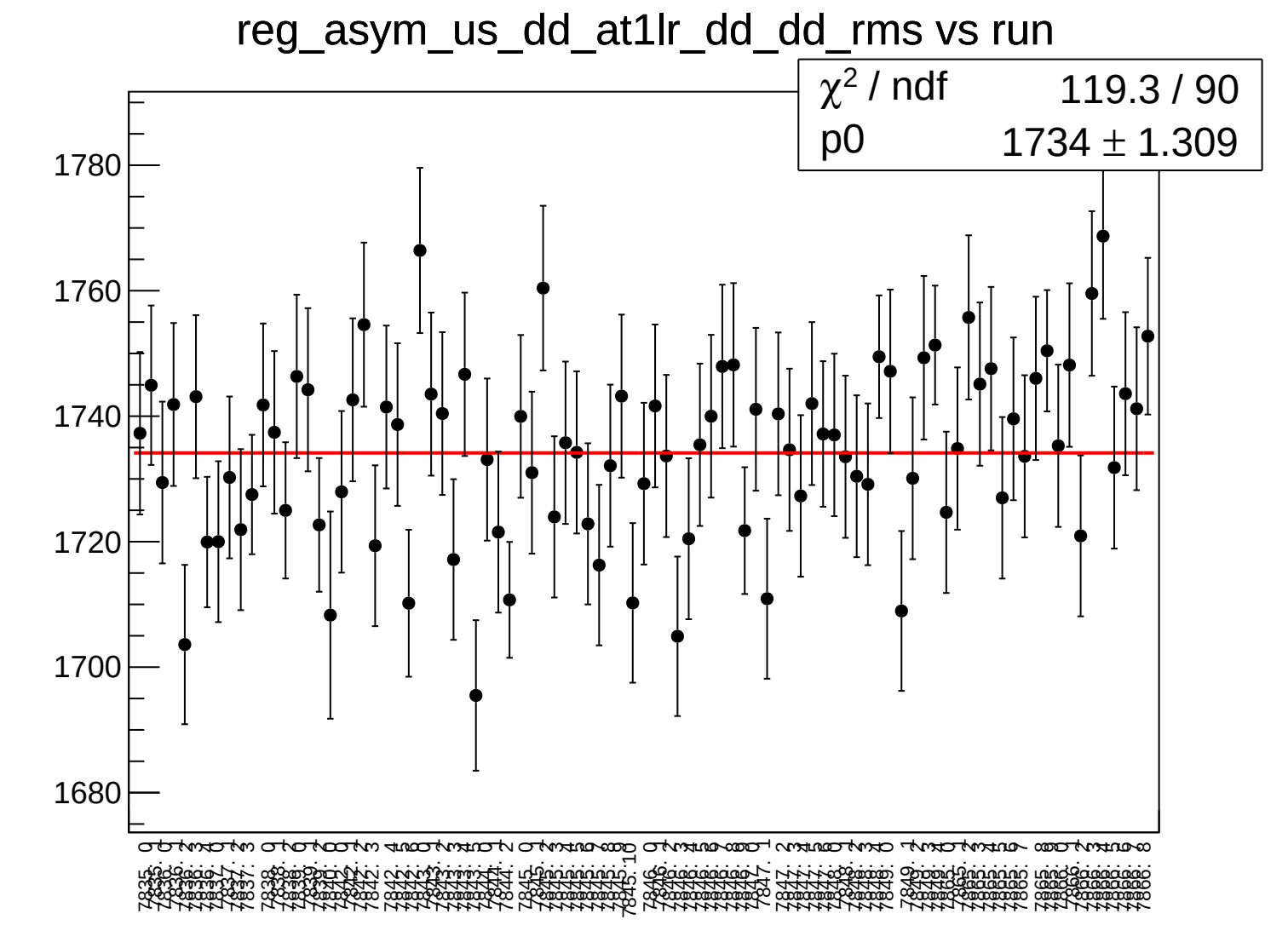

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 90
p0 71.75 ± 0.058
250
200
150
100
50

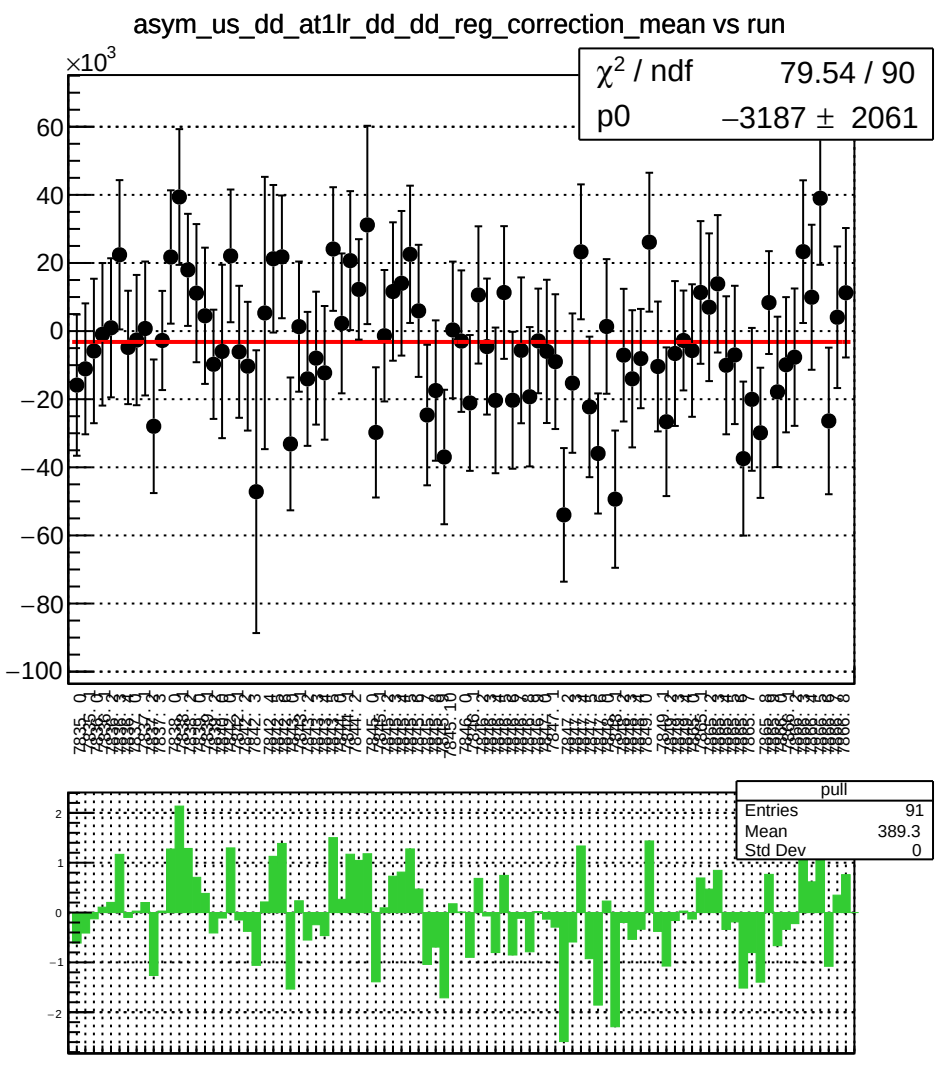

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.81 / 90
p0 5.959e−14 ± 1.892e−13
pull
Entries 91
Mean 66.49
Std Dev 26.92
pull1D
Entries 91
Mean 0.1399
Std Dev 1.006

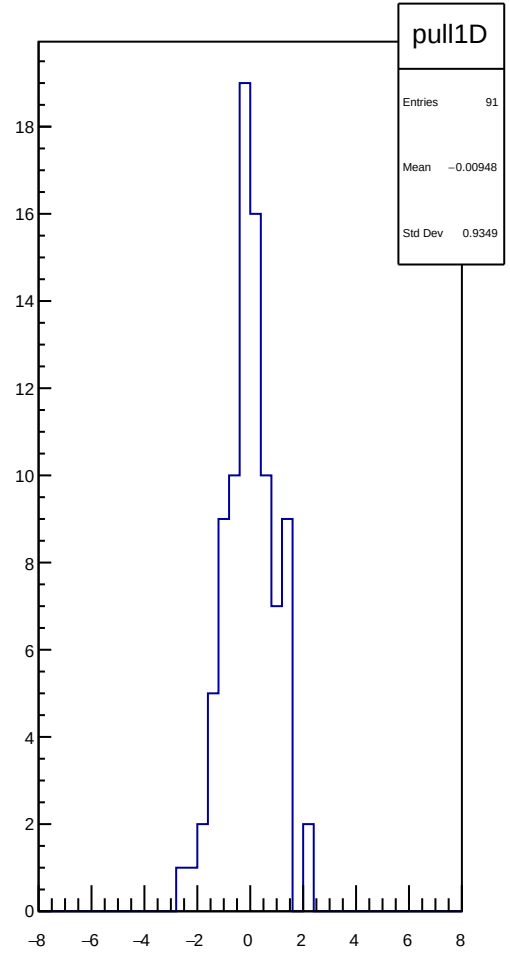

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.707e+05 / 90
p0 1.258e−10 ± 1.338e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

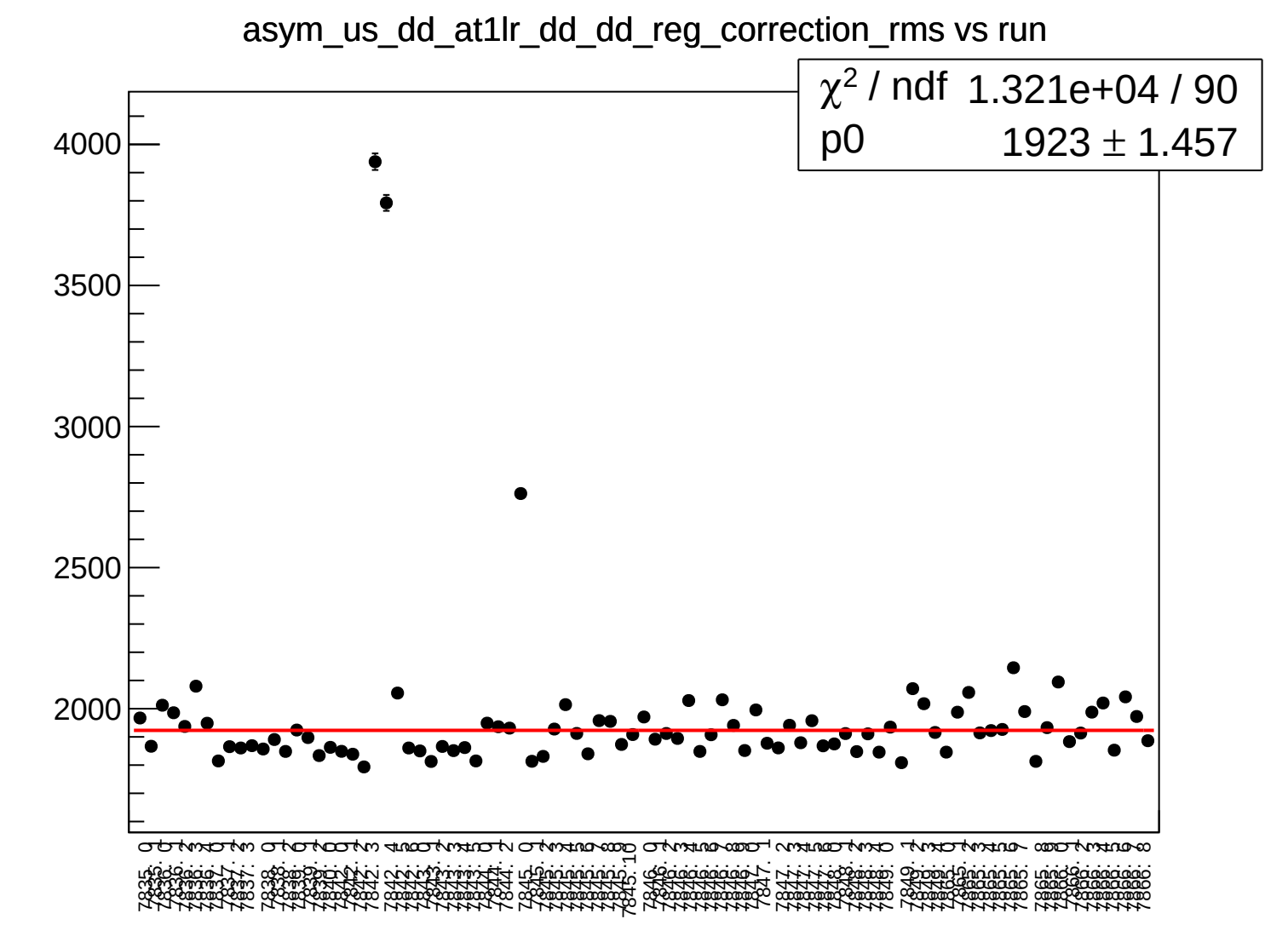

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92 / 90
p0 1135 ± 1851
pull
Entries 91
Mean 351.7
Std Dev 0

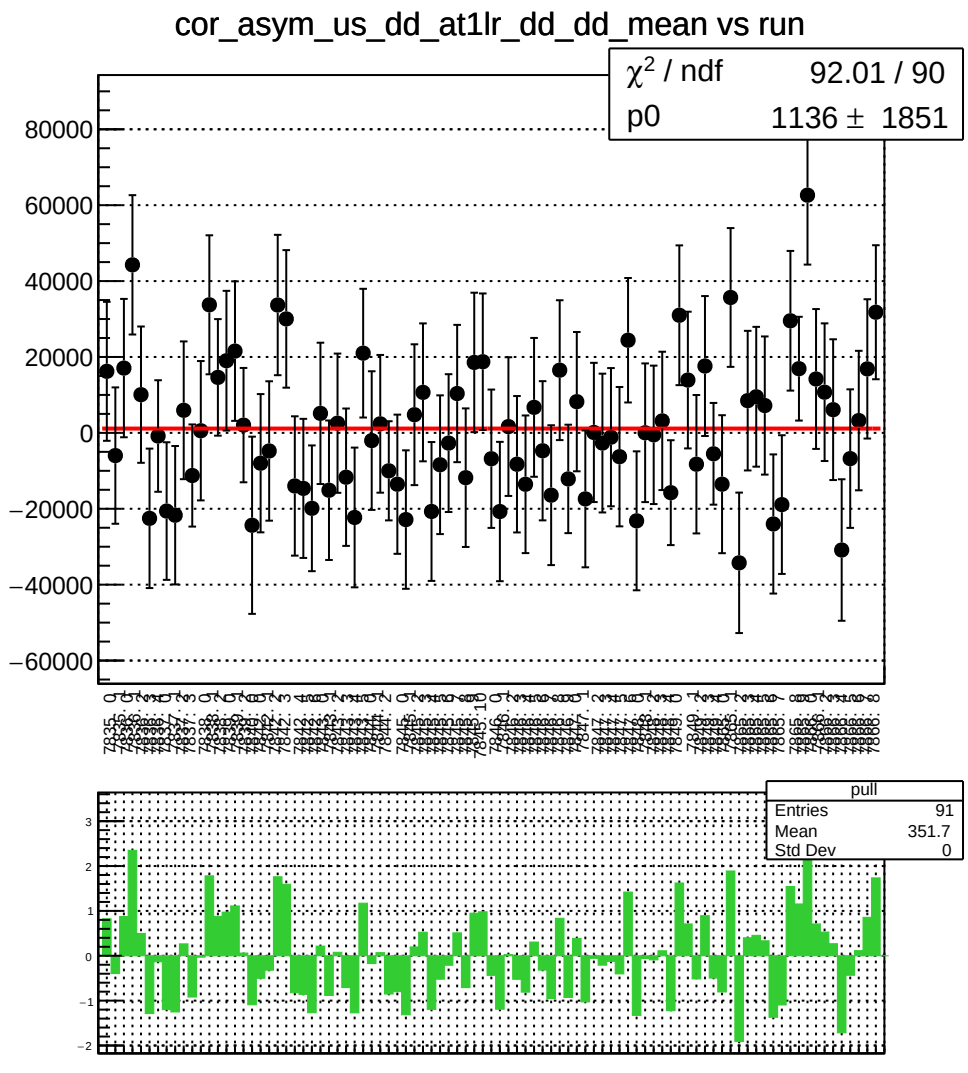

pull1D
Entries 91
Mean 0.006169
Std Dev 1.005

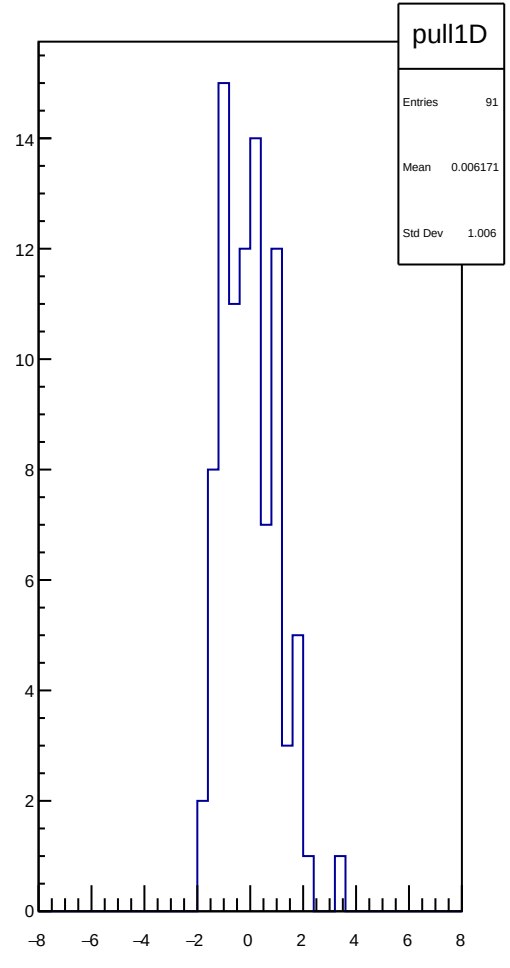

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 119.3 / 90
p0 1734 ± 1.309
1780
1760
1740
1720
1700
1680

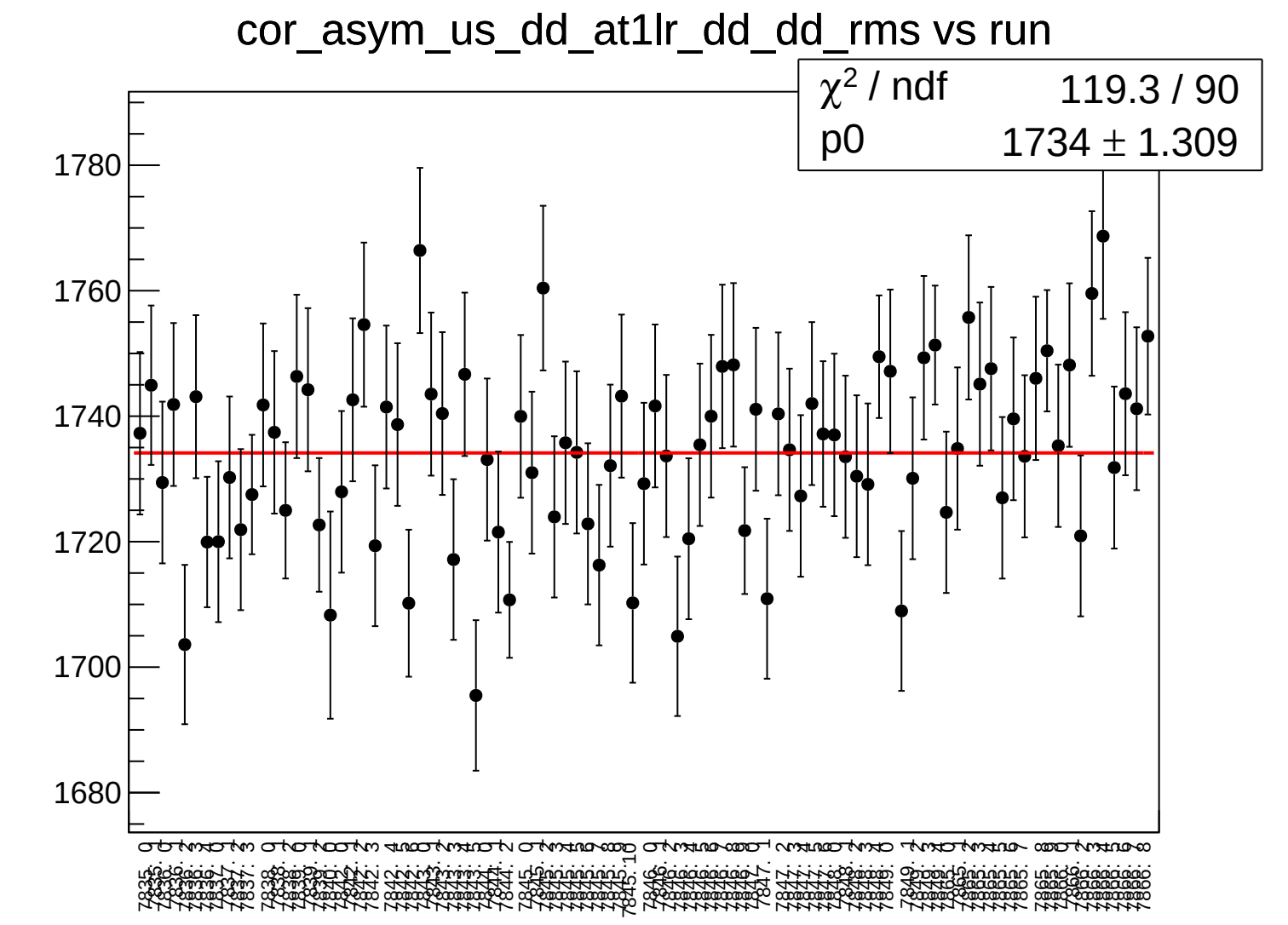

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.54 / 90
p0 −3187 ± 2061
pull
Entries 91
Mean 389.3
Std Dev 0

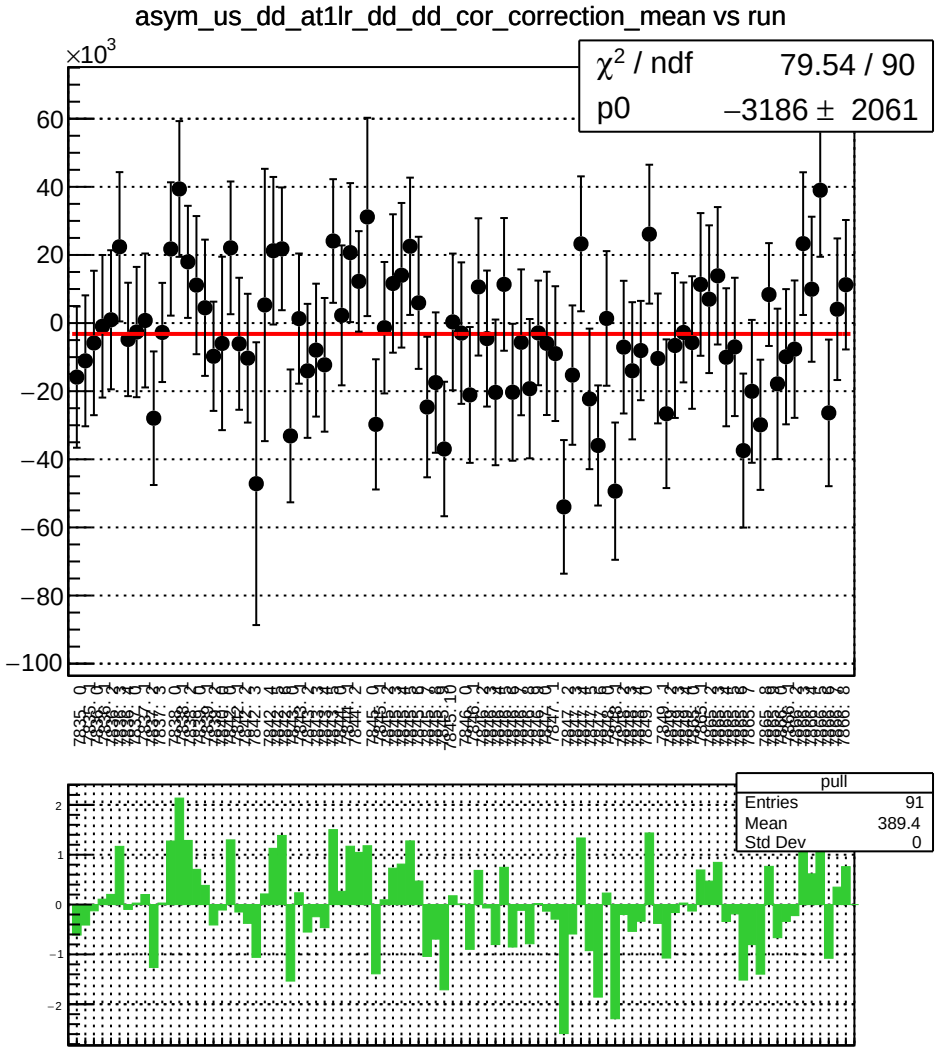

pull1D
Entries 91
Mean −0.00948
Std Dev 0.9349

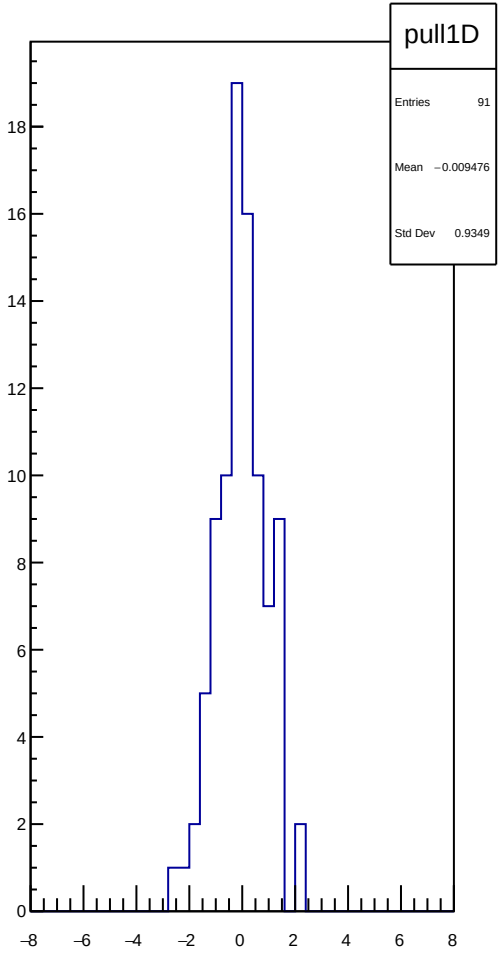

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.321e+04 / 90
p0 1923 ± 1.457
4000
3500
3000
2500
2000

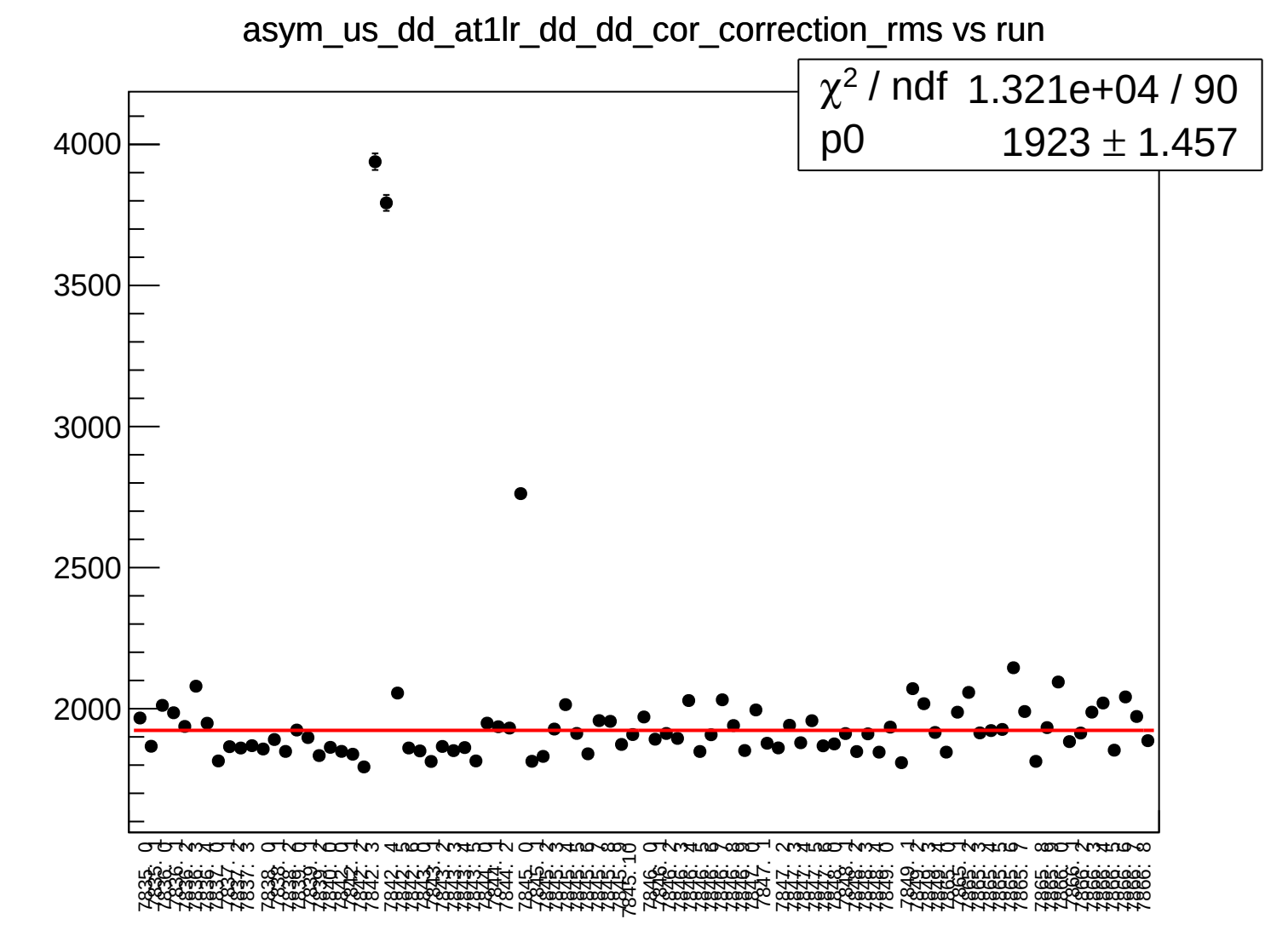

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.01 / 90
p0 1136 ± 1851
pull
Entries 91
Mean 351.7
Std Dev 0

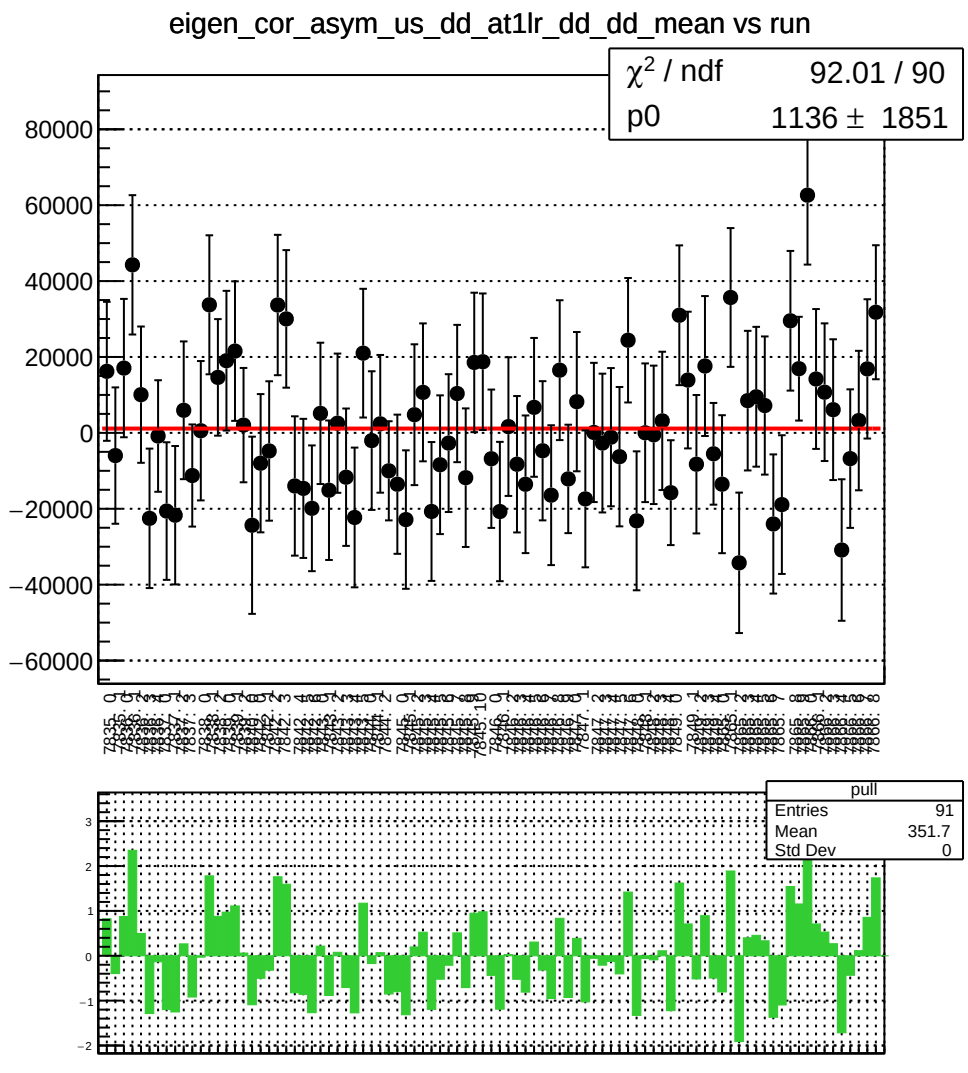

pull1D
Entries 91
Mean 0.006171
Std Dev 1.006

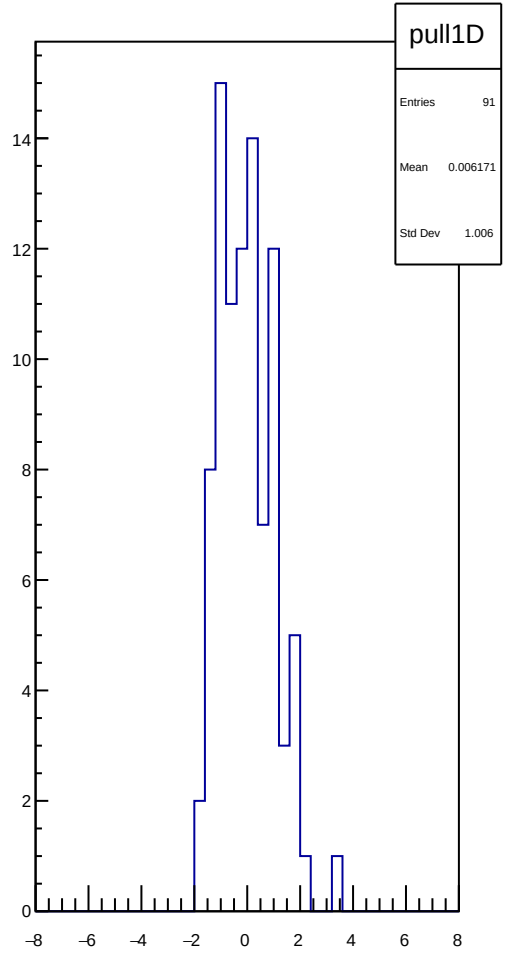

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 119.3 / 90
p0 1734 ± 1.309
1780
1760
1740
1720
1700
1680

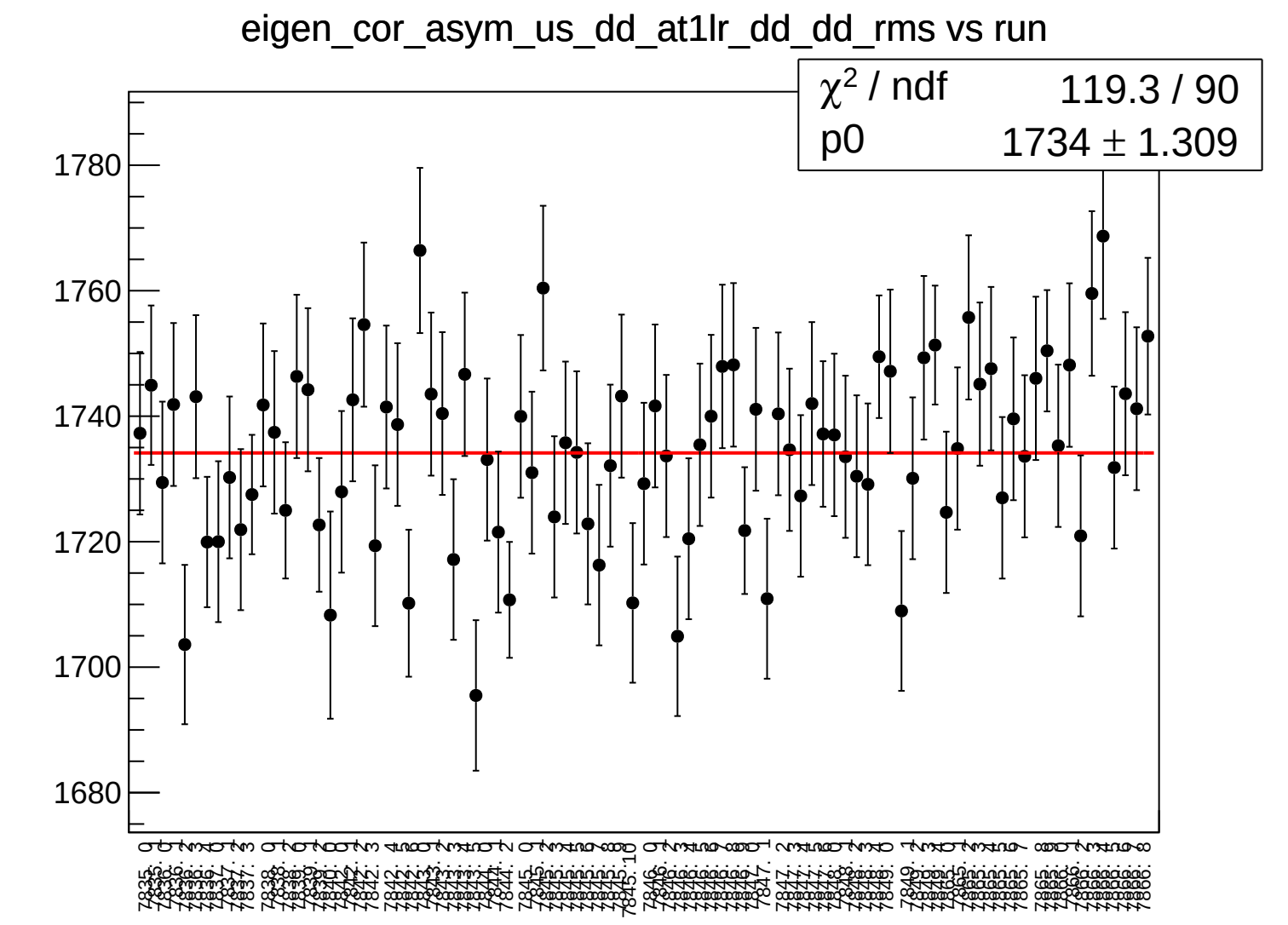

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 79.54 / 90
p0 −3186 ± 2061
pull
Entries 91
Mean 389.4
Std Dev 0

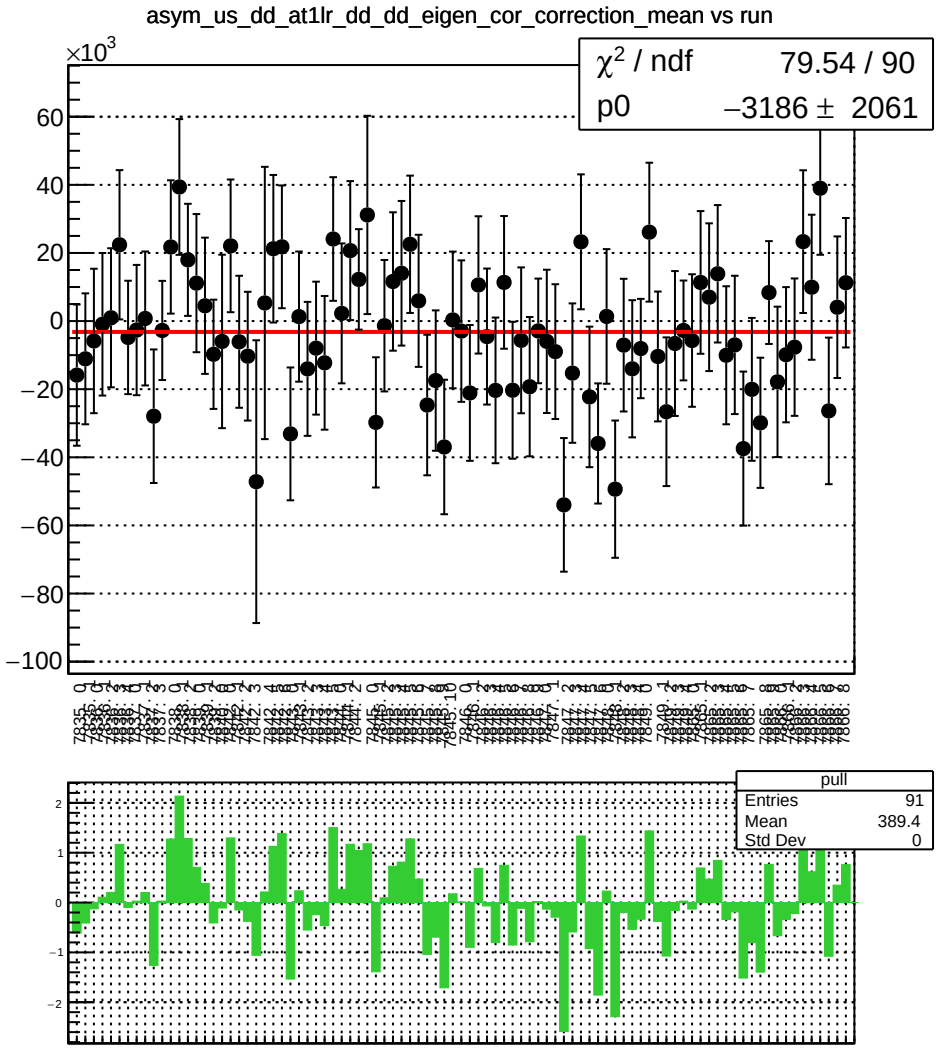

pull1D
Entries 91
Mean −0.009476
Std Dev 0.9349

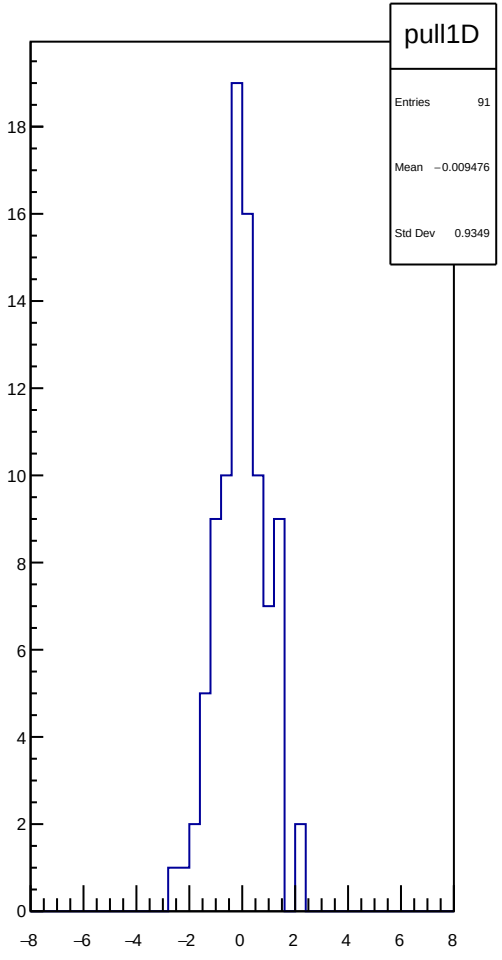

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.321e+04 / 90
p0 1923 ± 1.457
4000
3500
3000
2500
2000

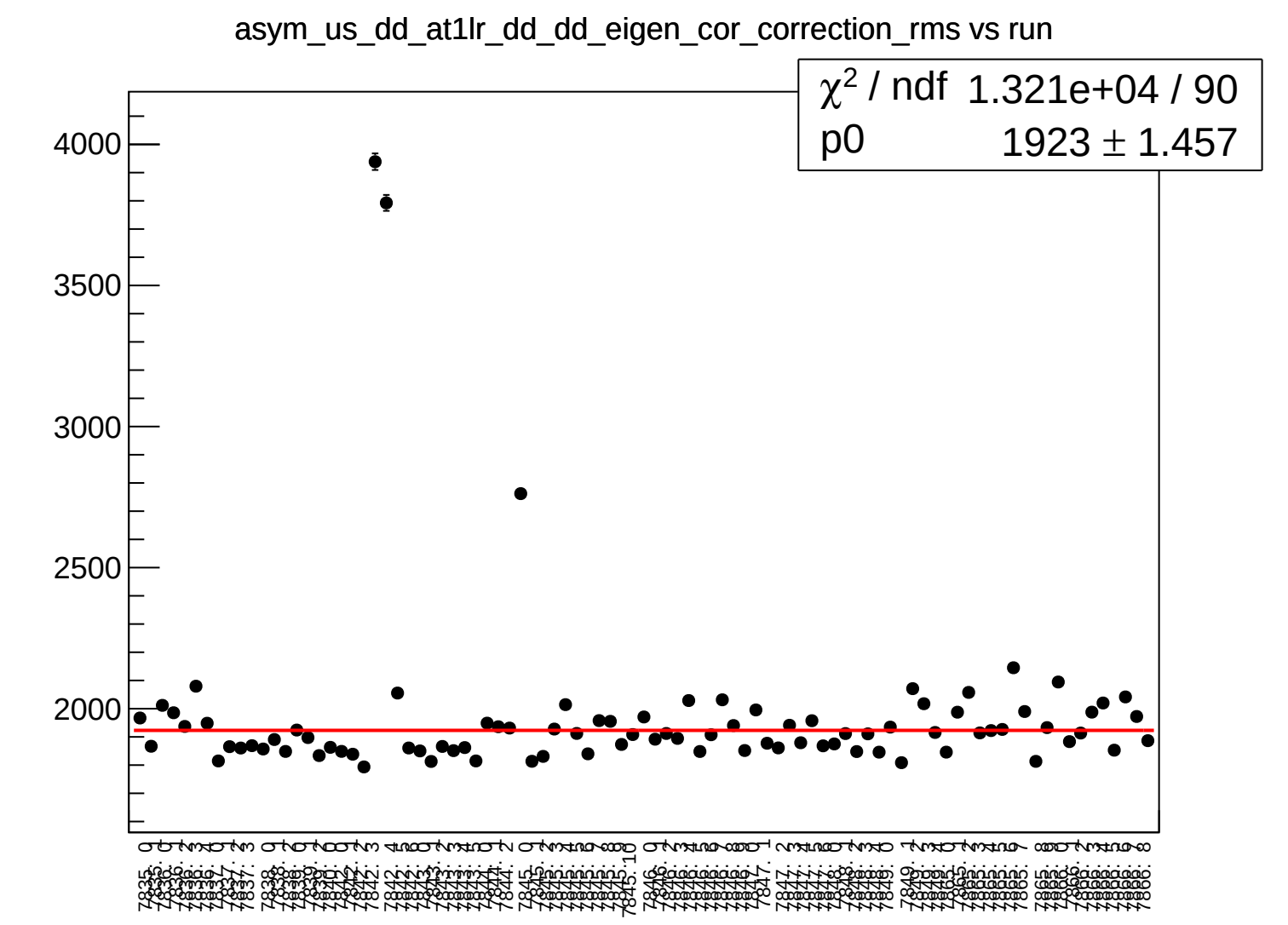

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.01 / 90
p0 1136 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 351.7
Std Dev 0
3
2
1
0
−1
−2

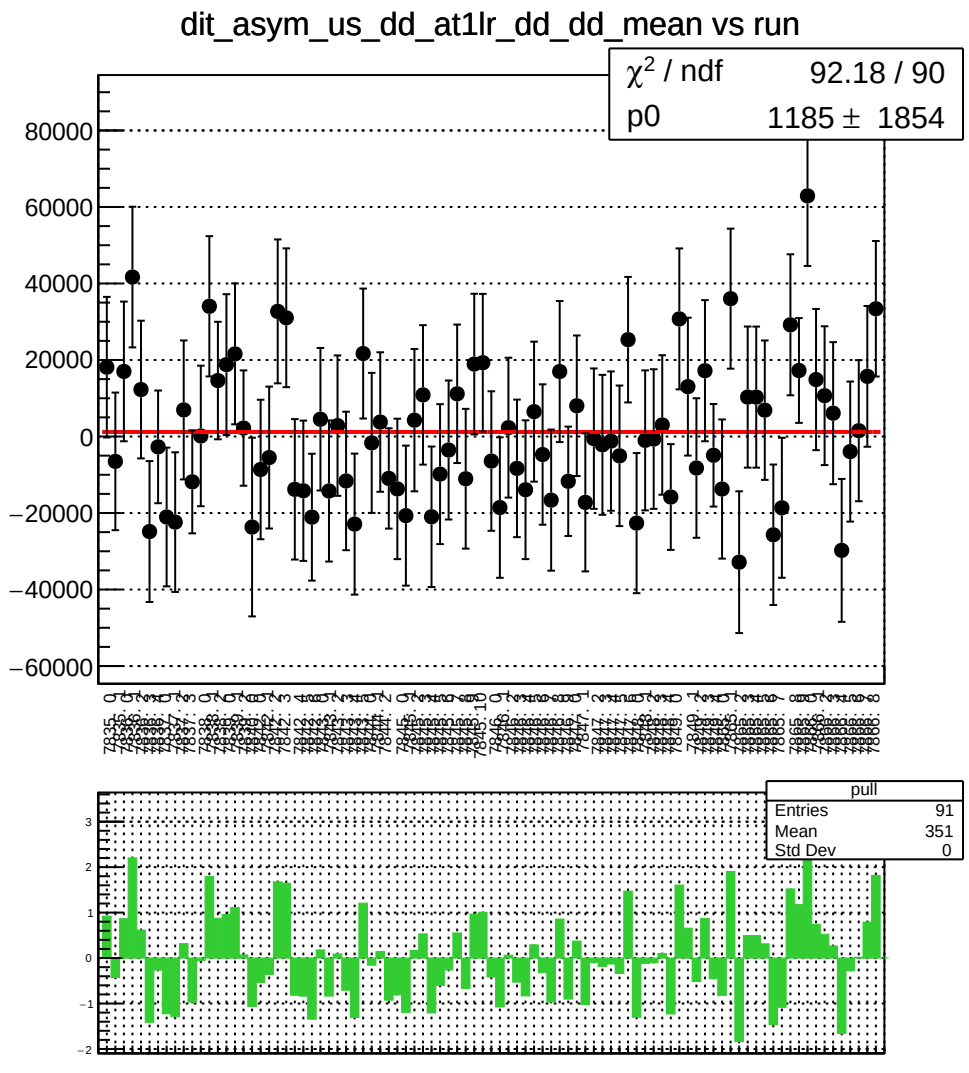

pull1D
Entries 91
Mean 0.006171
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

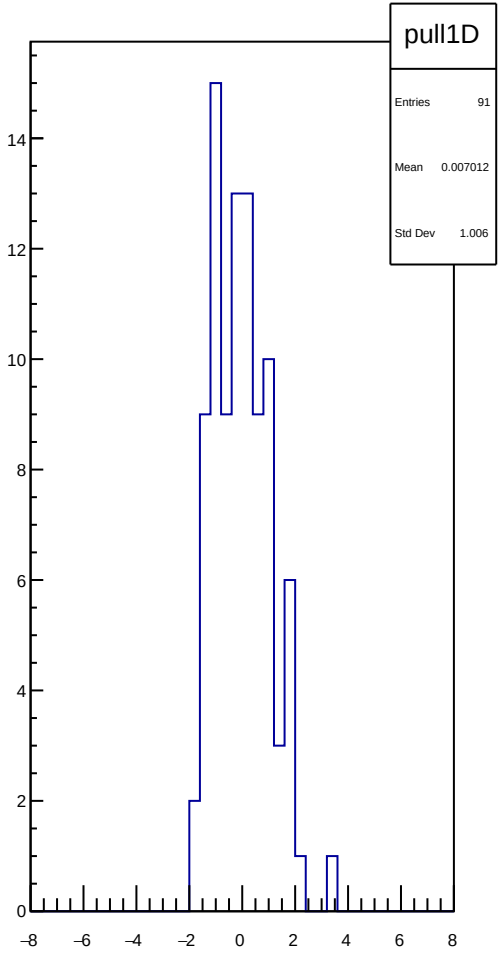

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 119.3 / 90
p0 1734 ± 1.309
1780
1760
1740
1720
1700
1680

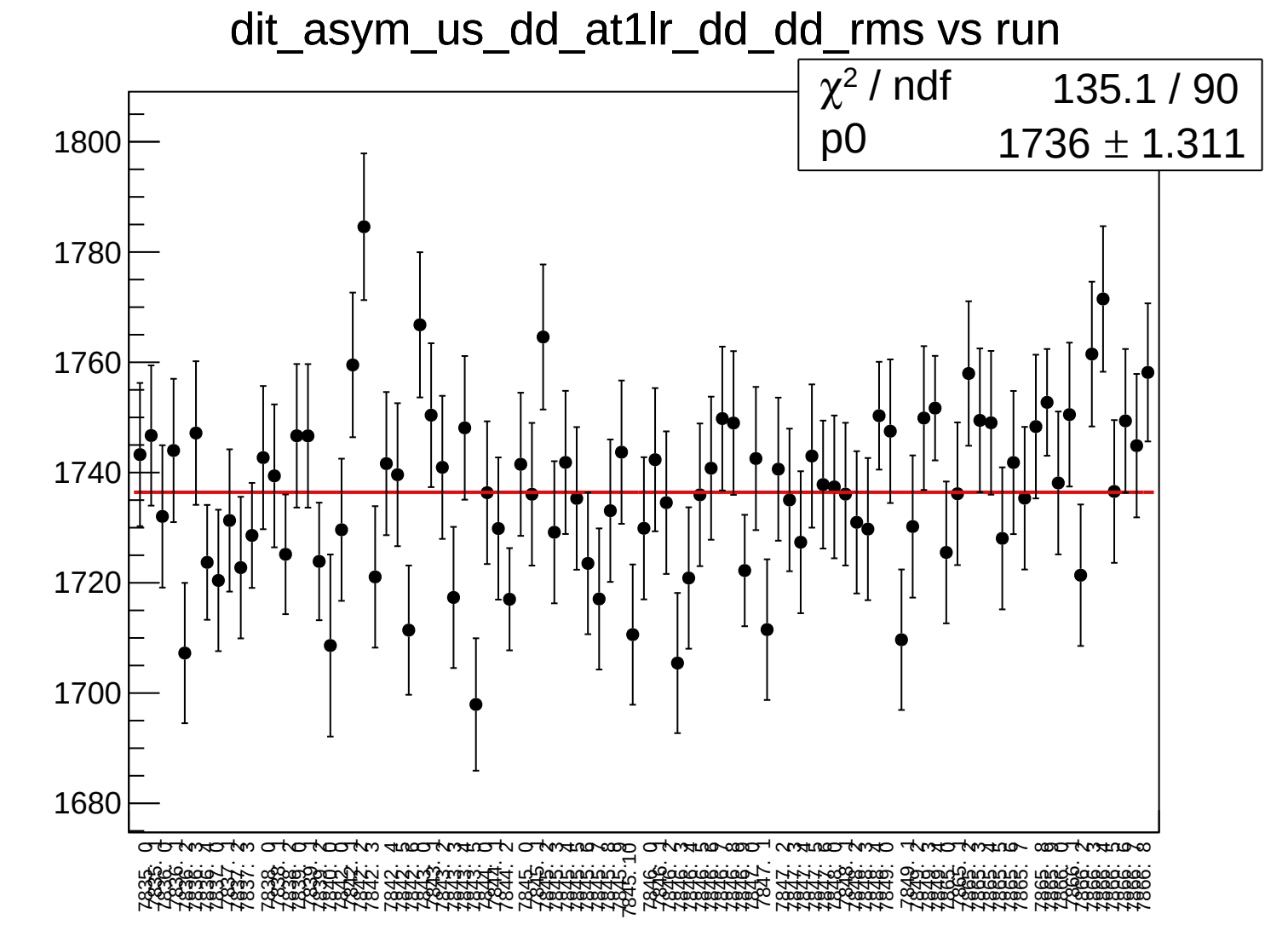

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.54 / 90
p0 −3186 ± 2061
pull
Entries 91
Mean 389.4
Std Dev 0

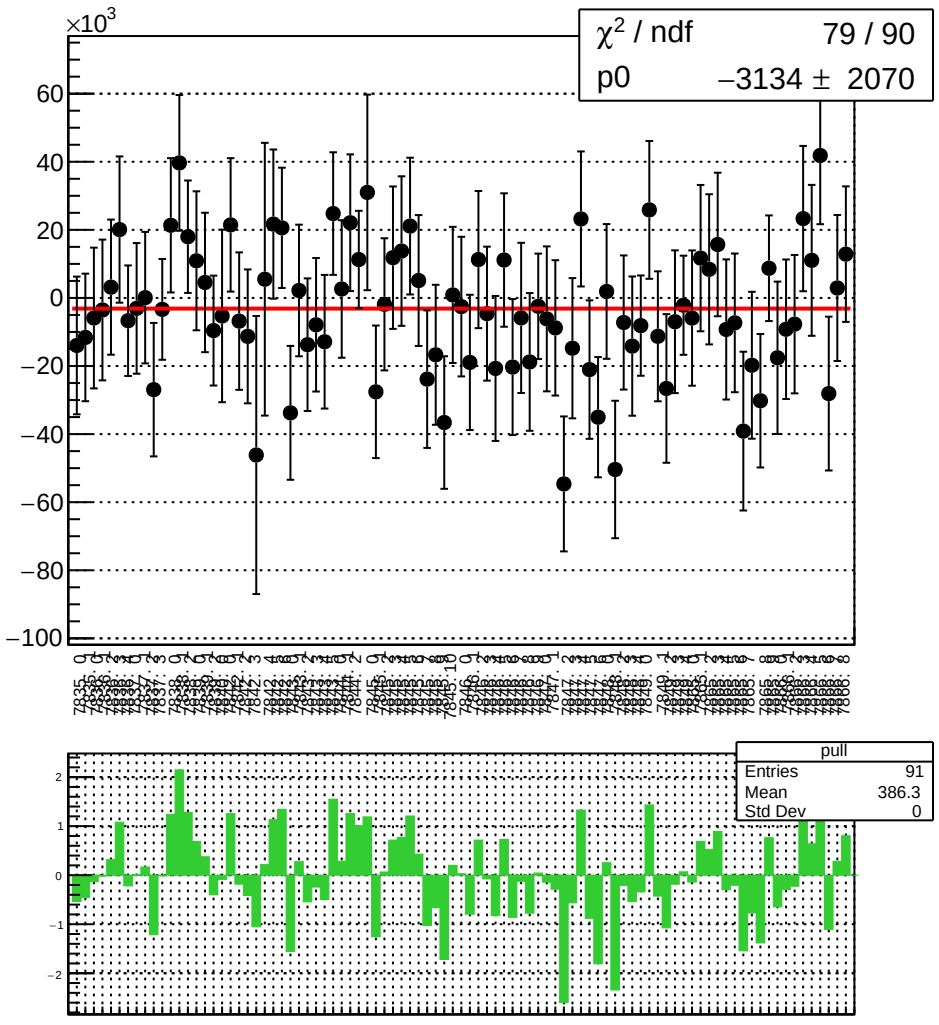

pull1D
Entries 91
Mean −0.009476
Std Dev 0.9349

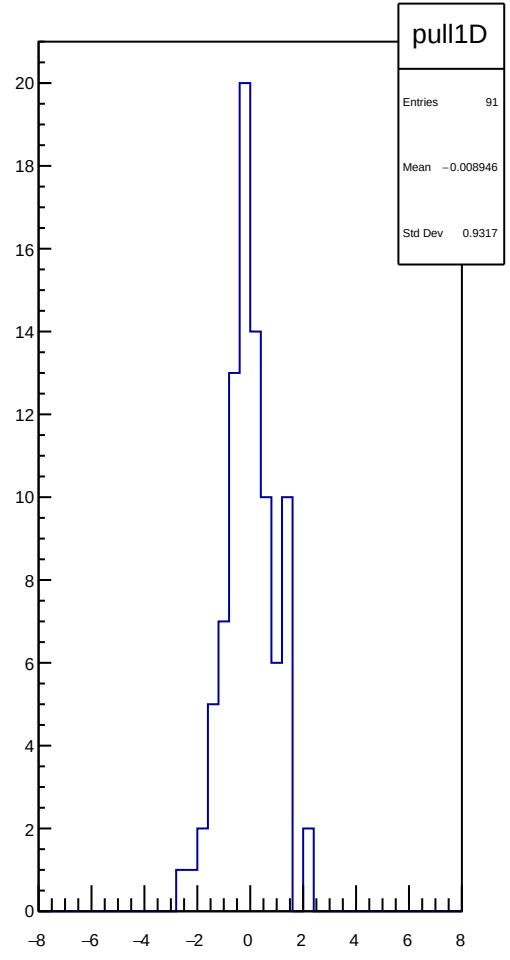

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.321e+04 / 90
p0 1923 ± 1.457
4000
3500
3000
2500
2000

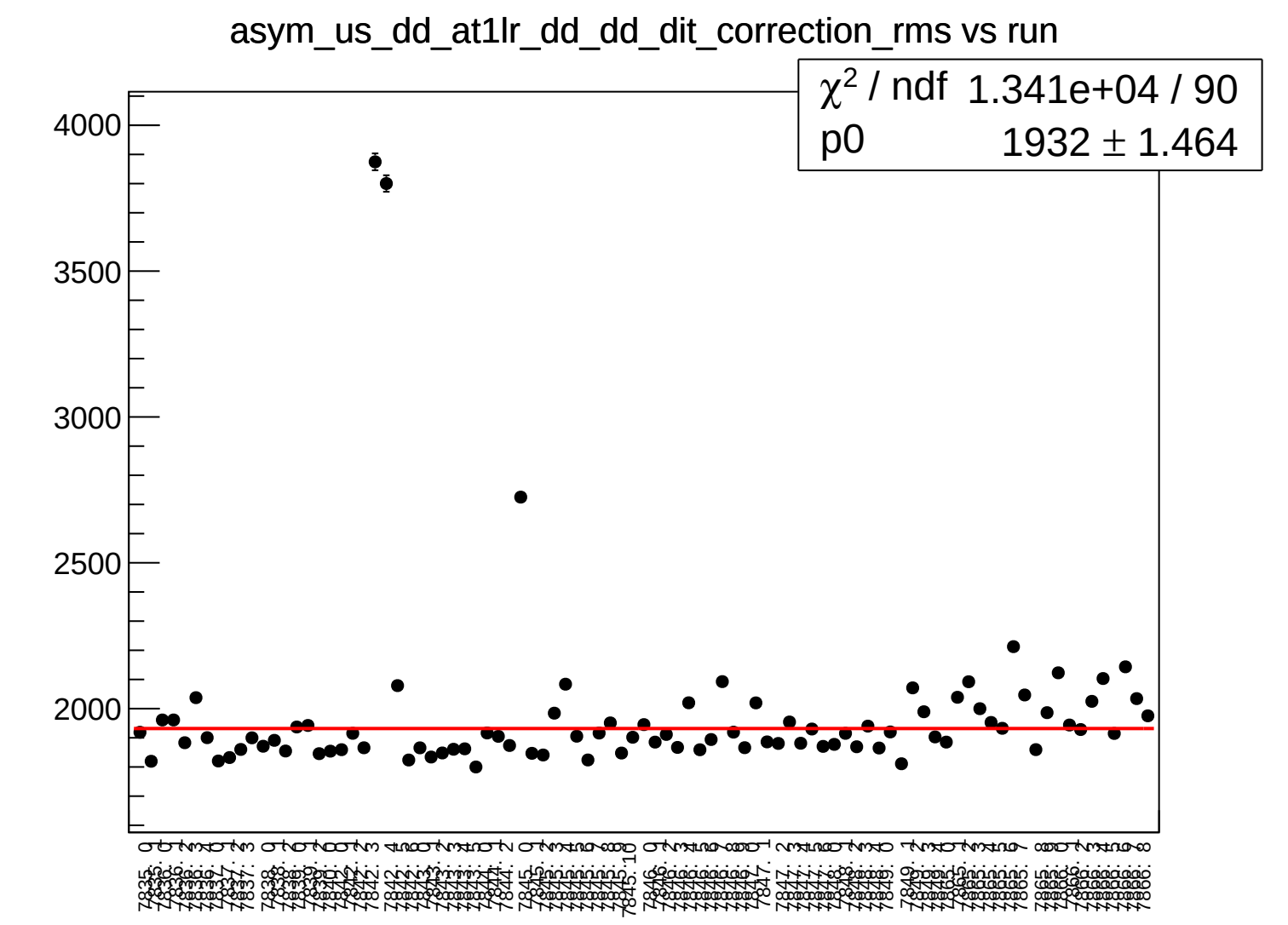

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.18 / 90
p0 1185 ± 1854
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 351
Std Dev 0
3
2
1
0
−1
−2

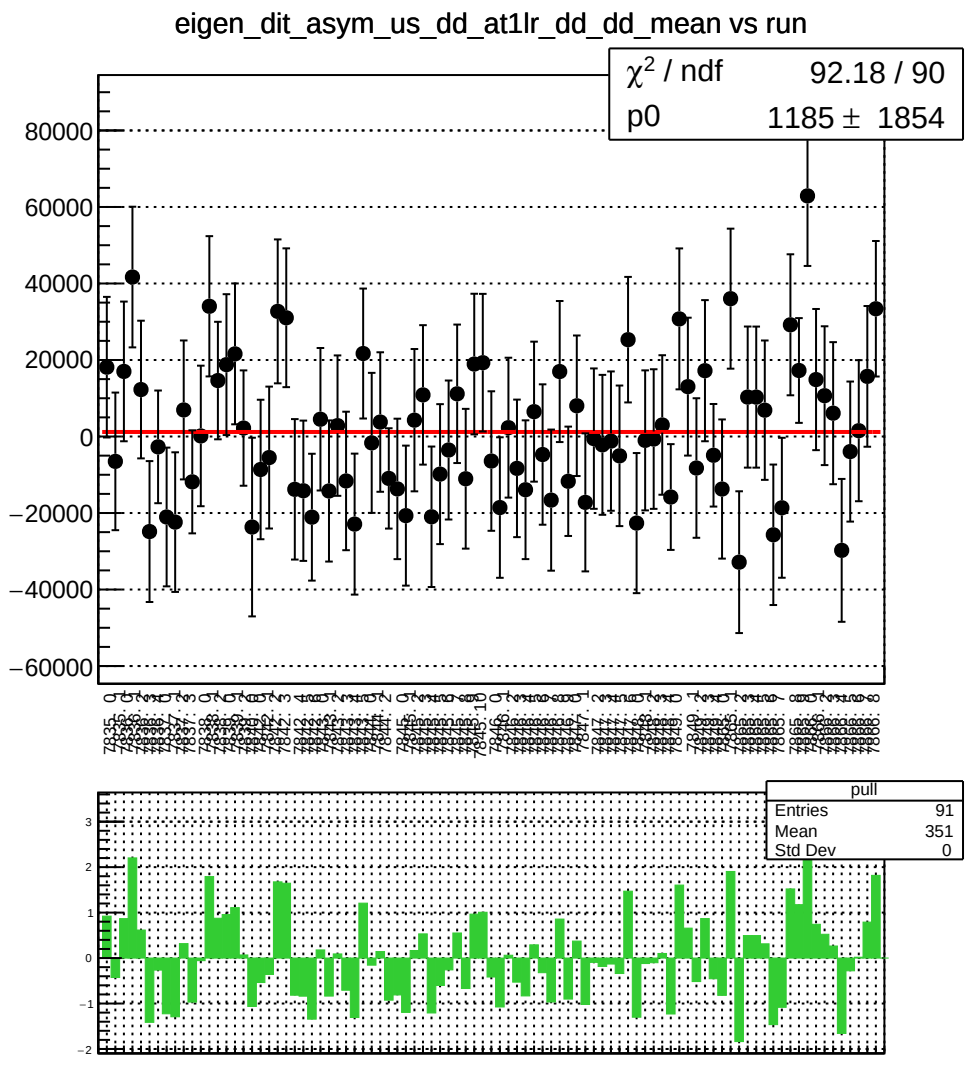

pull1D
Entries 91
Mean 0.007012
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

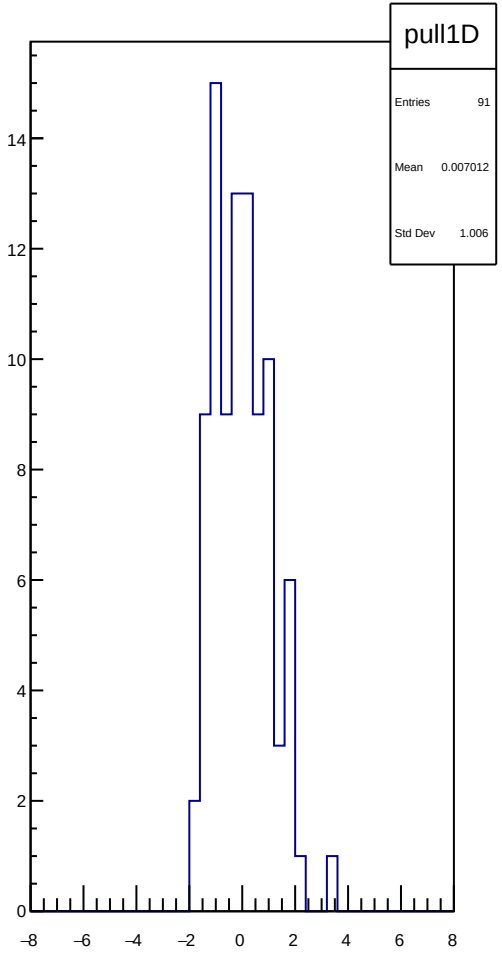

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 135.1 / 90
p0 1736 ± 1.311
1800
1780
1760
1740
1720
1700
1680

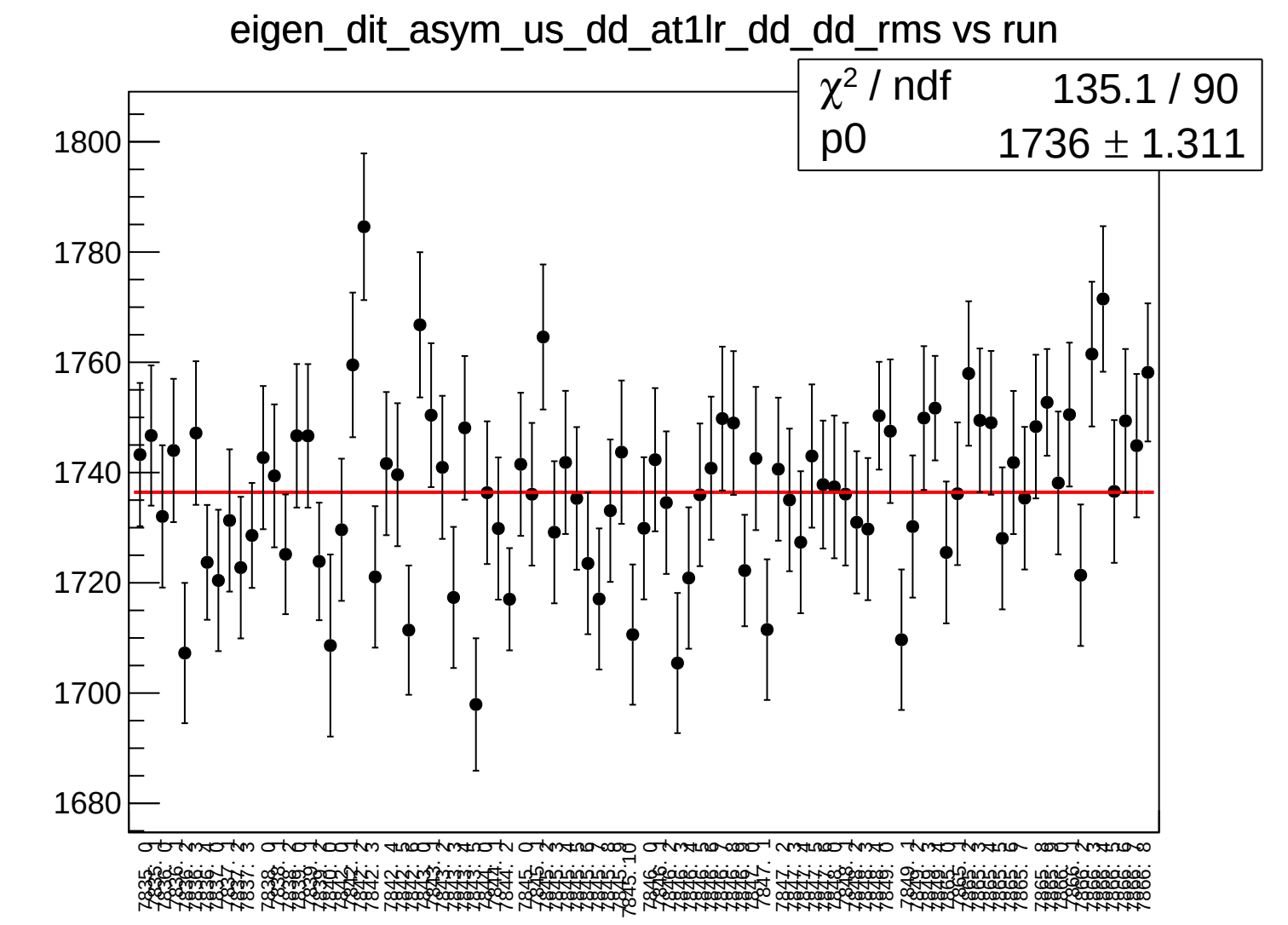

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79 / 90
p0 −3134 ± 2070
pull
Entries 91
Mean 386.3
Std Dev 0

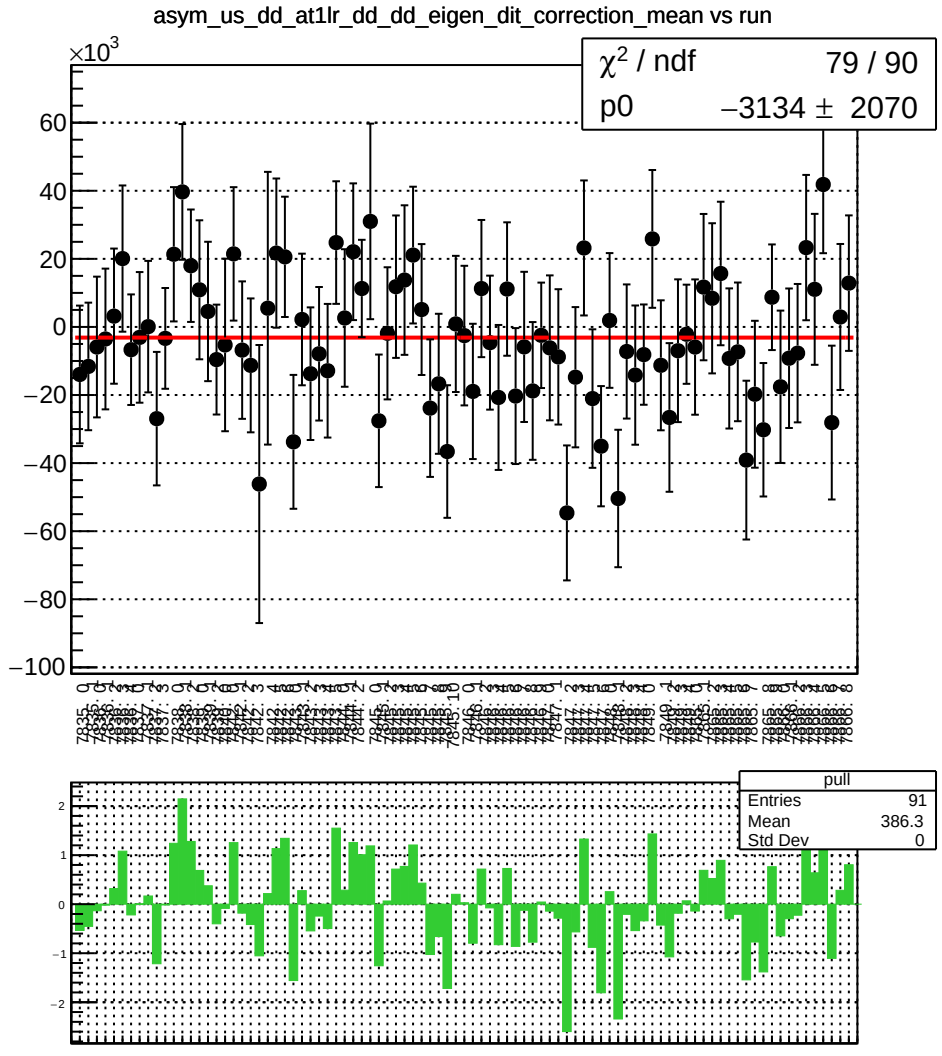

pull1D
Entries 91
Mean −0.008946
Std Dev 0.9317

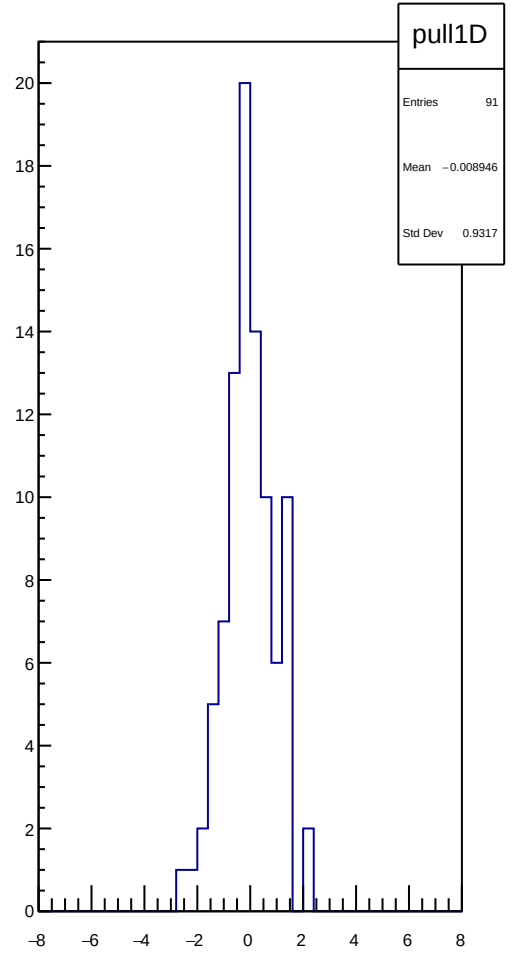

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.341e+04 / 90
p0 1932 ± 1.464
4000
3500
3000
2500
2000

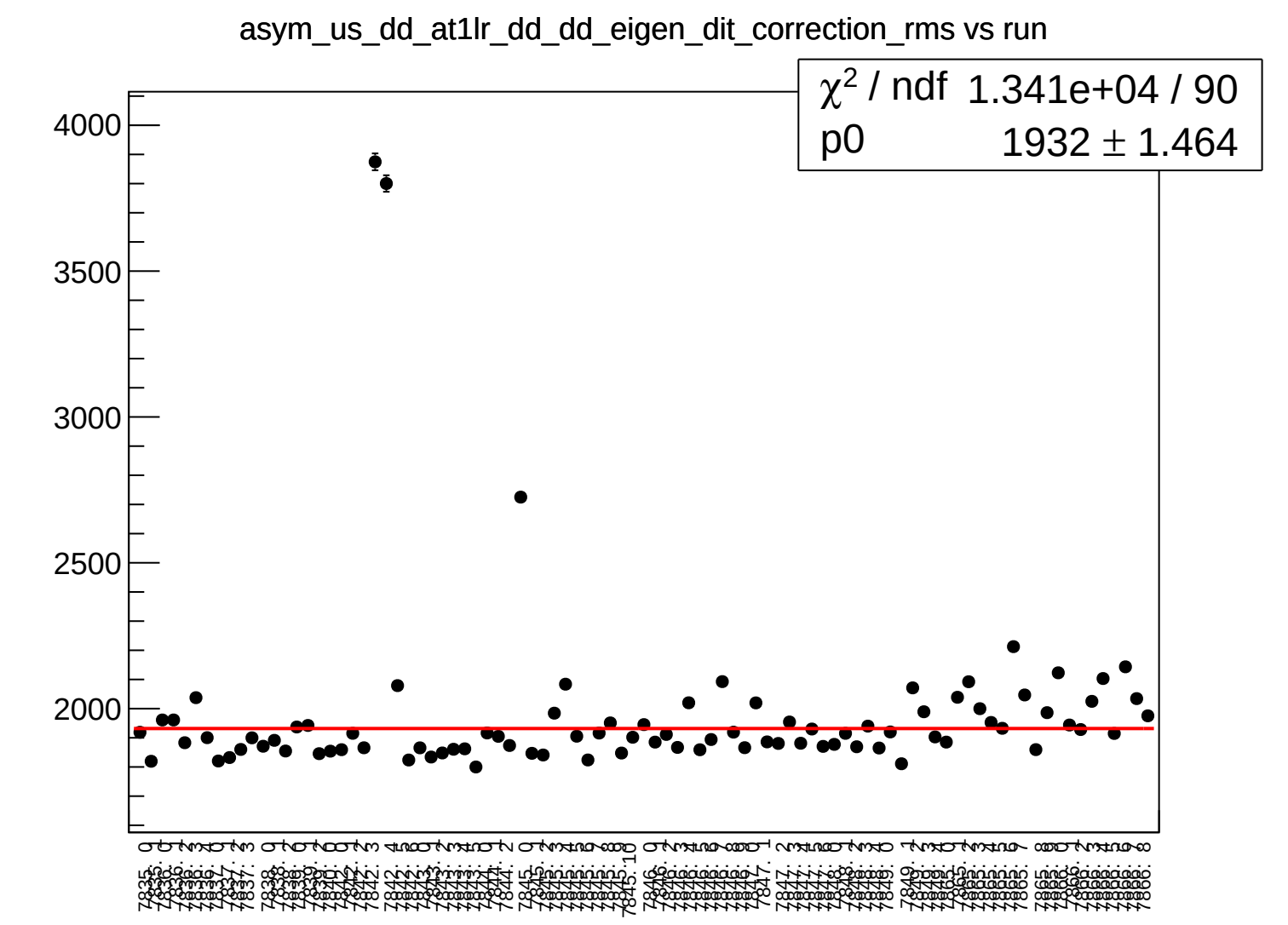

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.18 / 90
p0 1185 ± 1854
pull
Entries 91
Mean 351
Std Dev 0

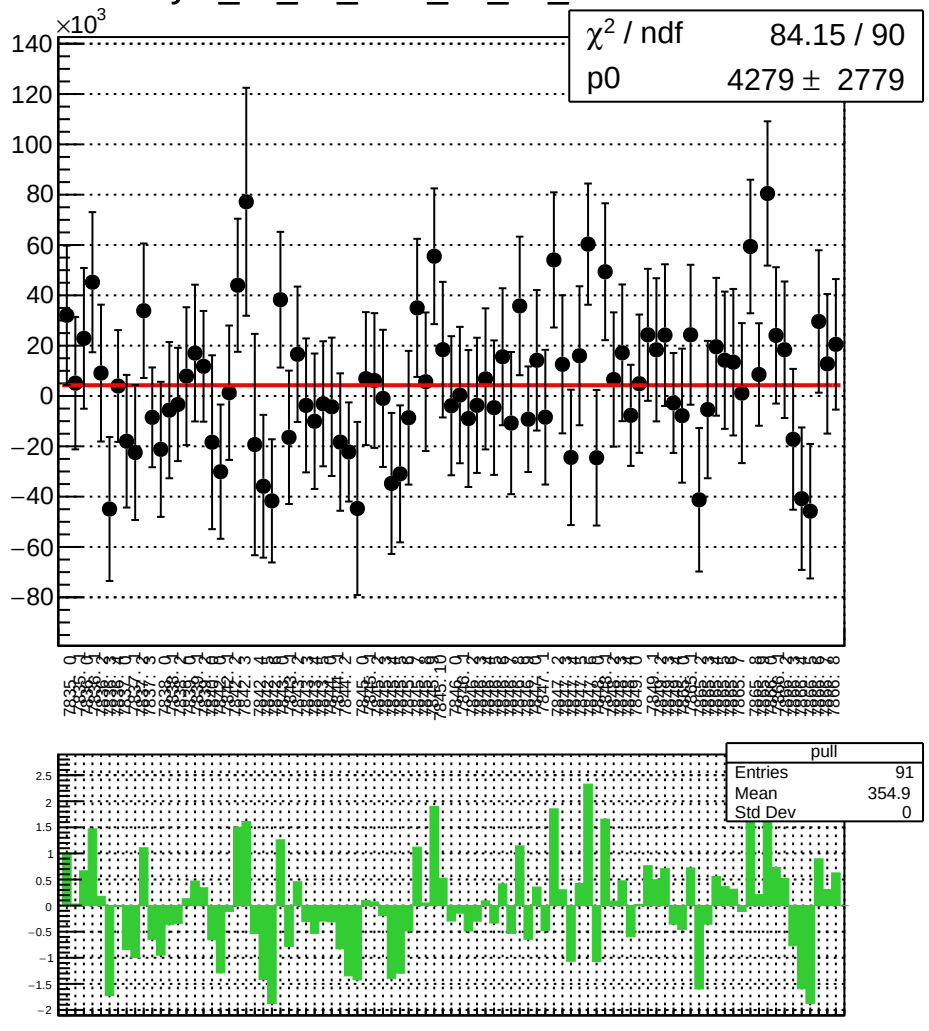

pull1D
Entries 91
Mean 0.007012
Std Dev 1.006

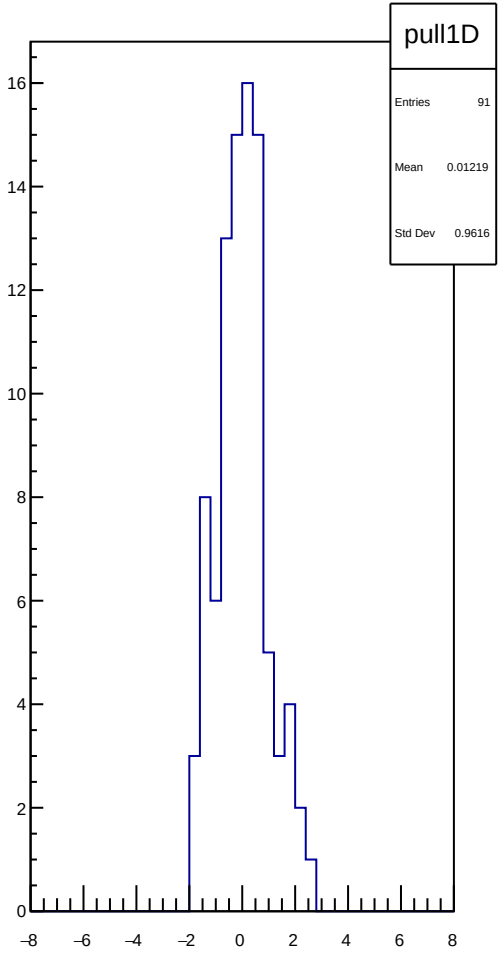

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 135.1 / 90
p0 1736 ± 1.311
1800
1780
1760
1740
1720
1700
1680

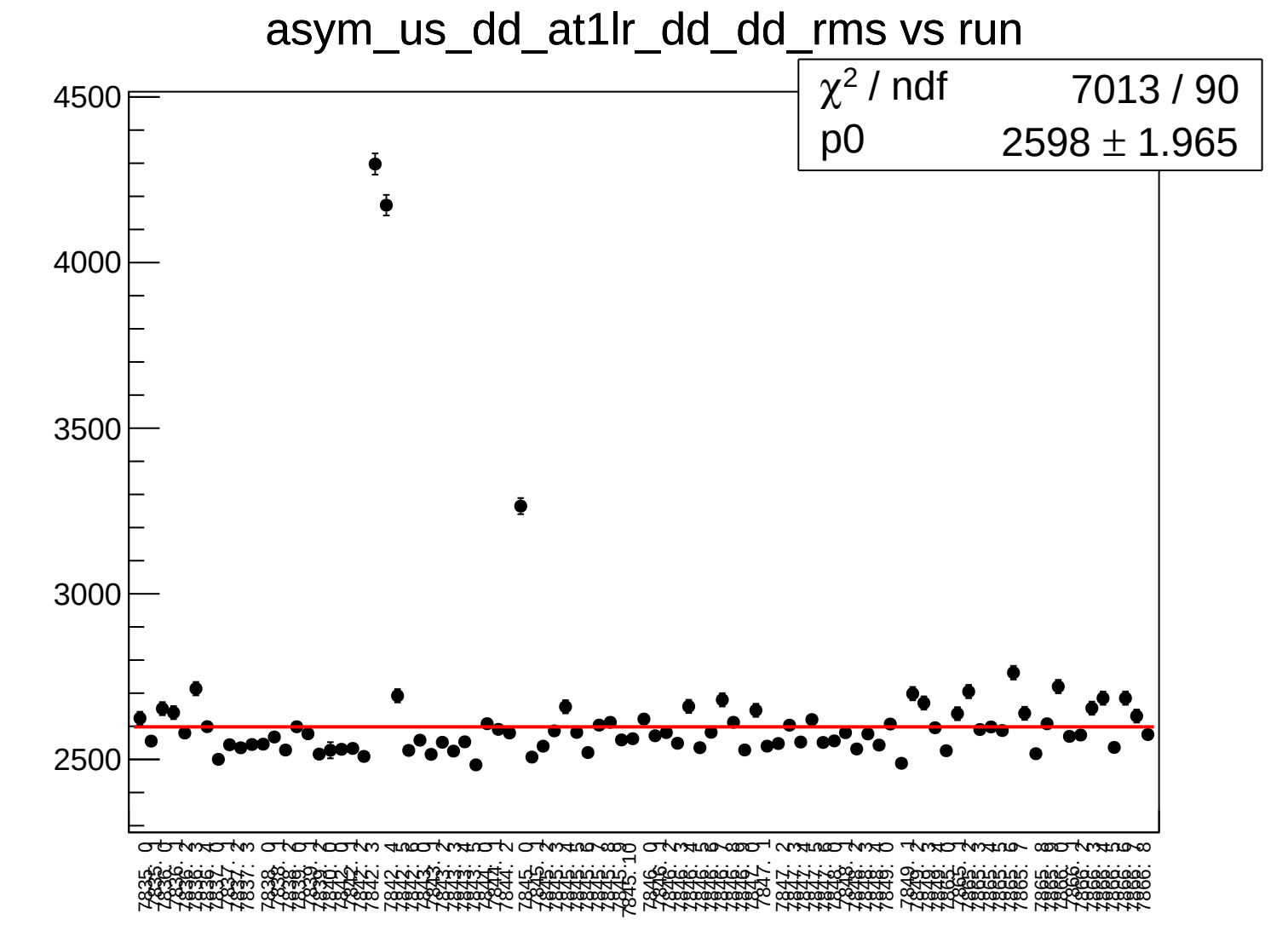

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79 / 90
p0 −3134 ± 2070
pull
Entries 91
Mean 386.3
Std Dev 0

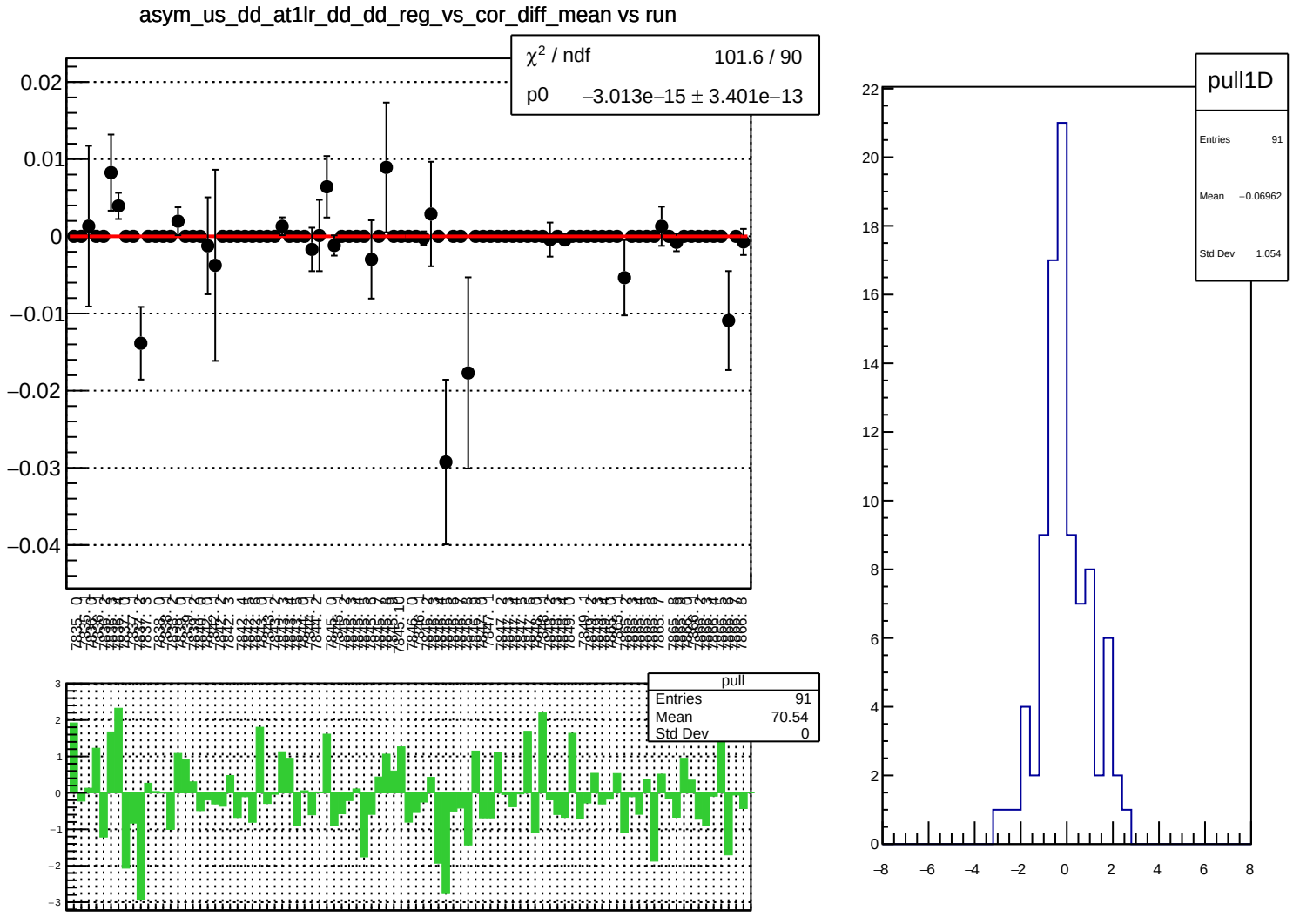

pull1D
Entries 91
Mean −0.008946
Std Dev 0.9317

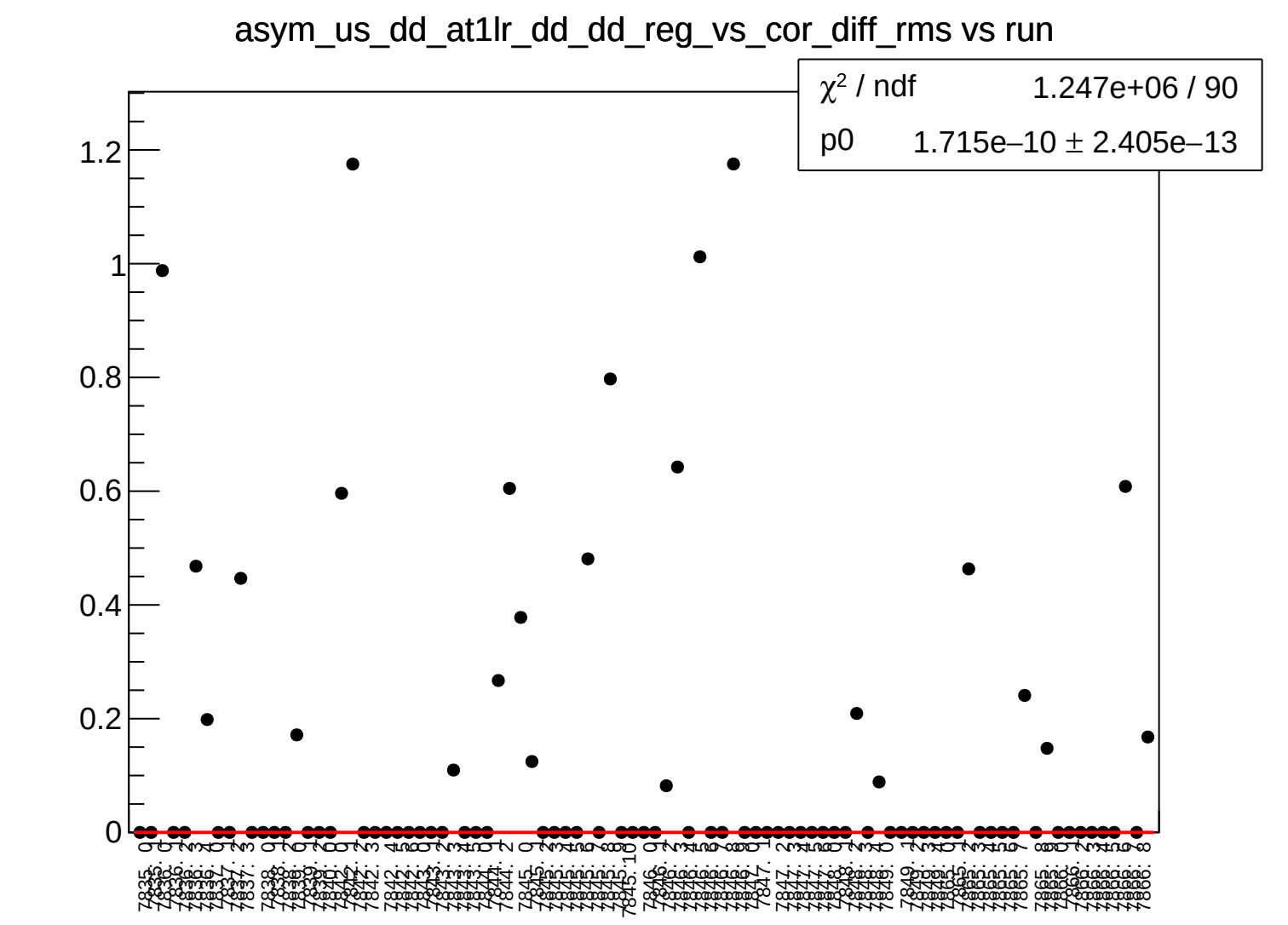

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.341e+04 / 90
p0 1932 ± 1.464
4000
3500
3000
2500
2000

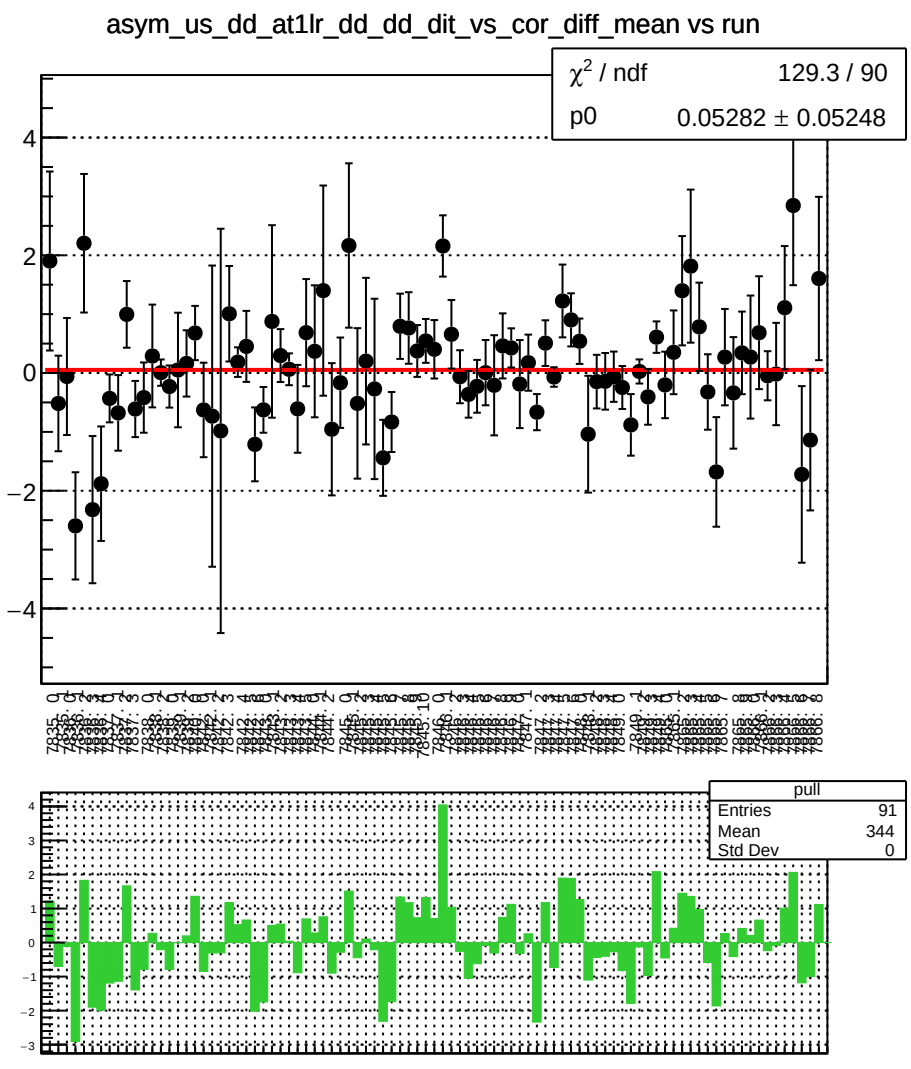

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 84.15 / 90
p0 4279 ± 2779
pull
Entries 91
Mean 354.9
Std Dev 0

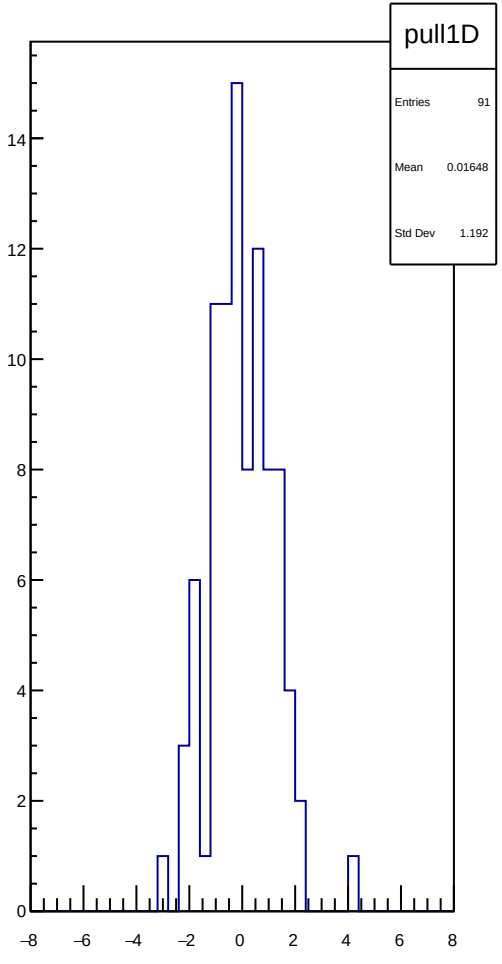

pull1D
Entries 91
Mean 0.01219
Std Dev 0.9616

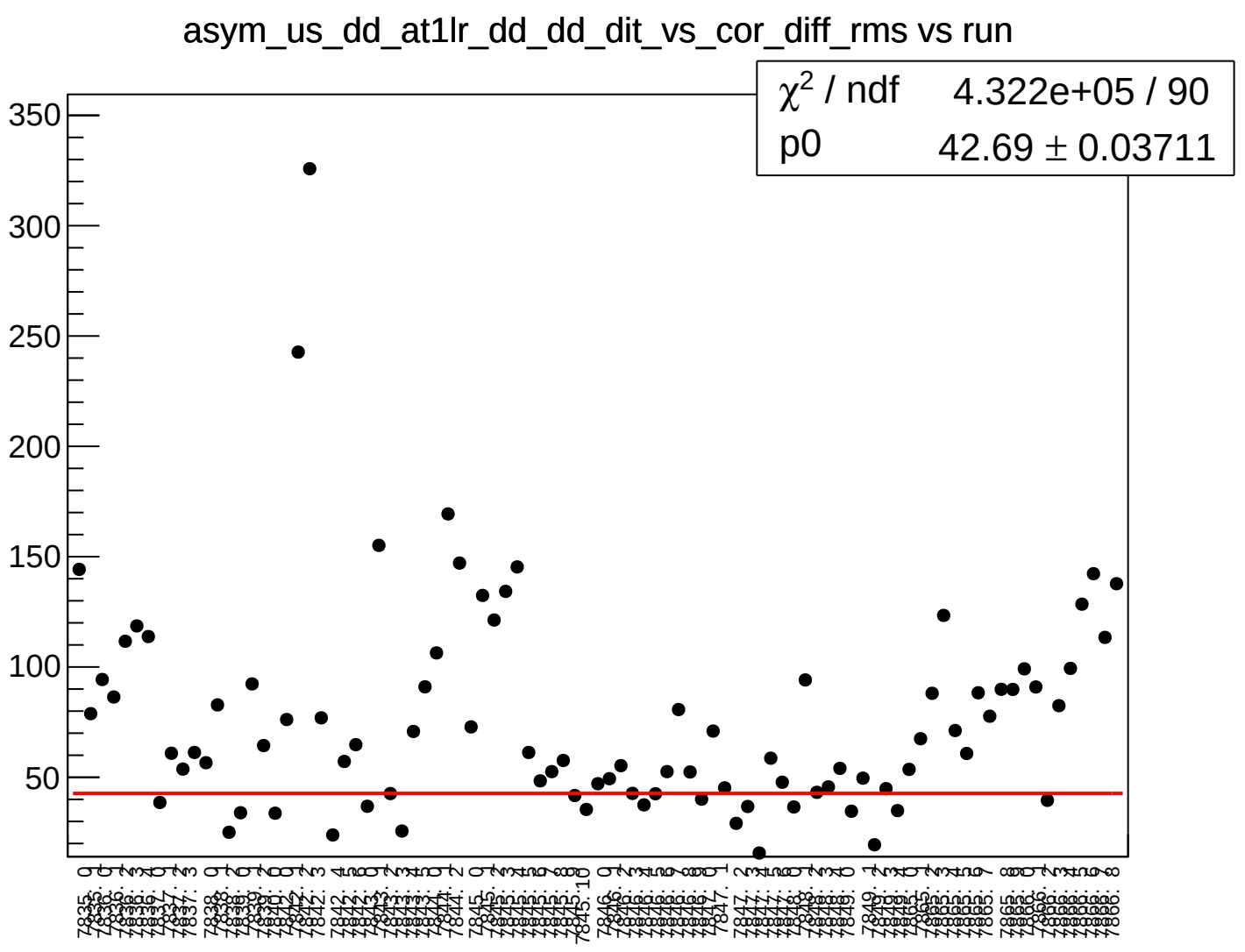

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 7013 / 90
p0 2598 ± 1.965
4500
4000
3500
3000
2500

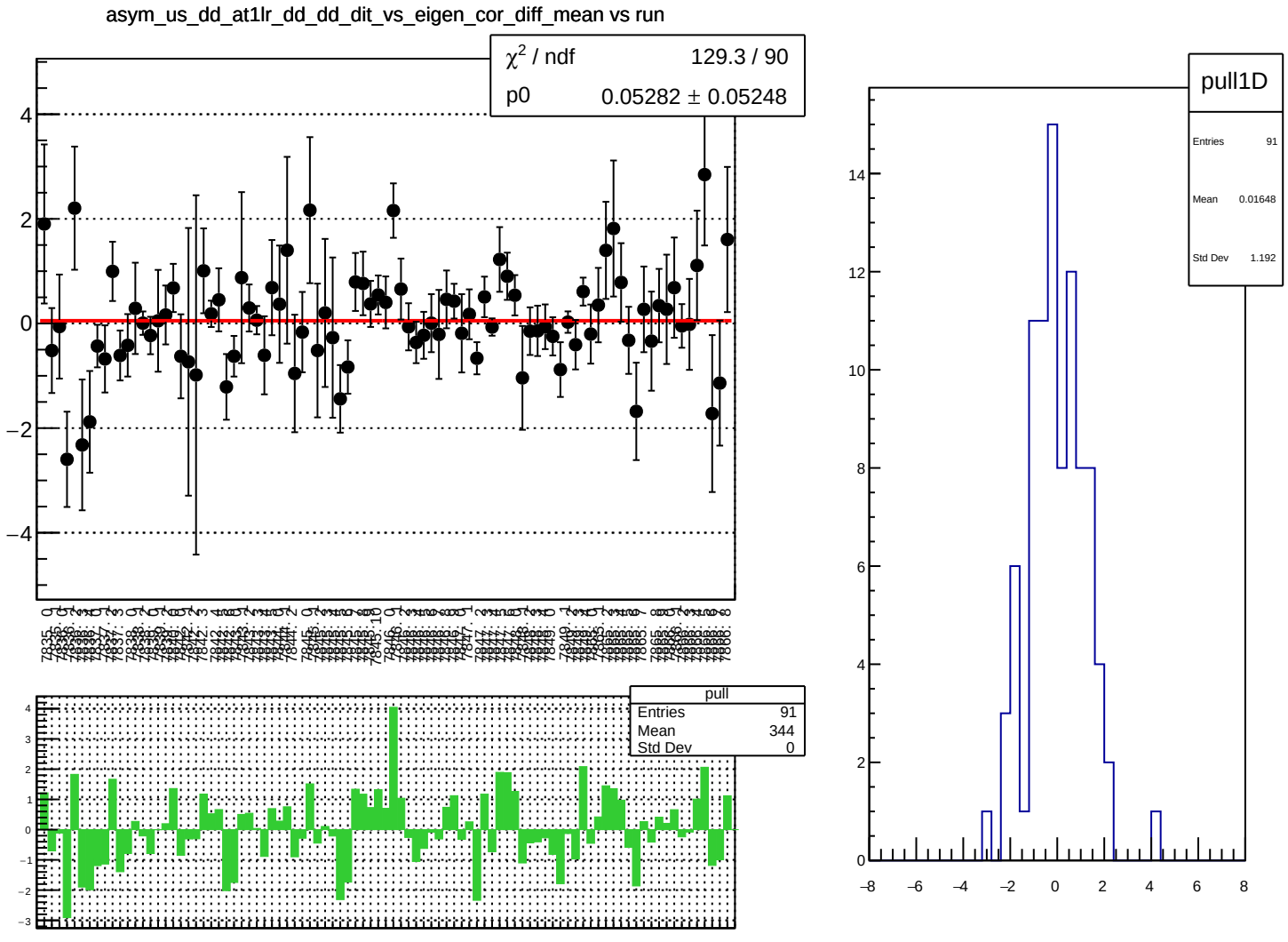

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 90
p0 −3.013e−15 ± 3.401e−13
pull
Entries 91
Mean 70.54
Std Dev 0
pull1D
Entries 91
Mean −0.06962
Std Dev 1.054

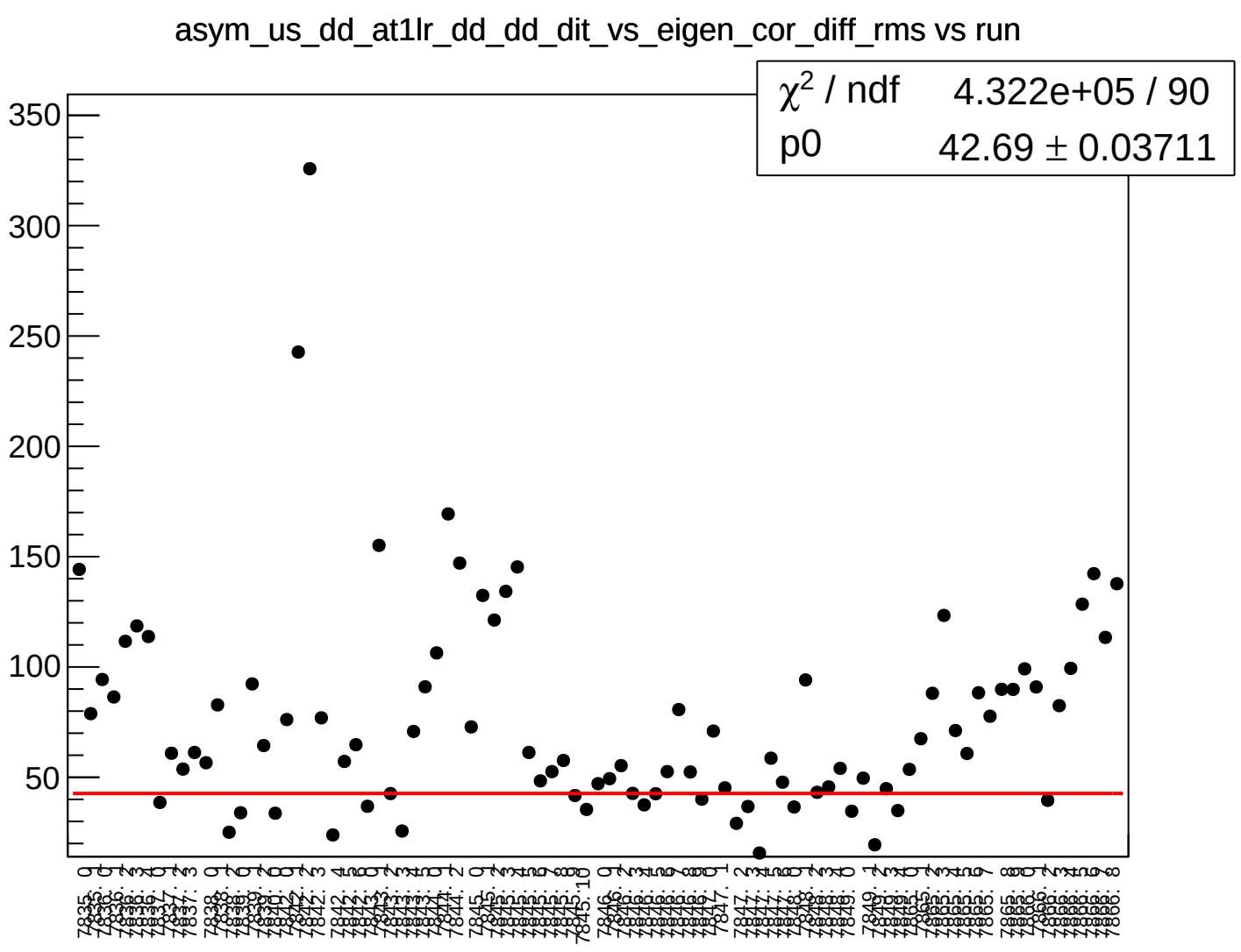

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.247e+06 / 90
p0 1.715e−10 ± 2.405e−13
1.2
1
0.8
0.6
0.4
0.2
0

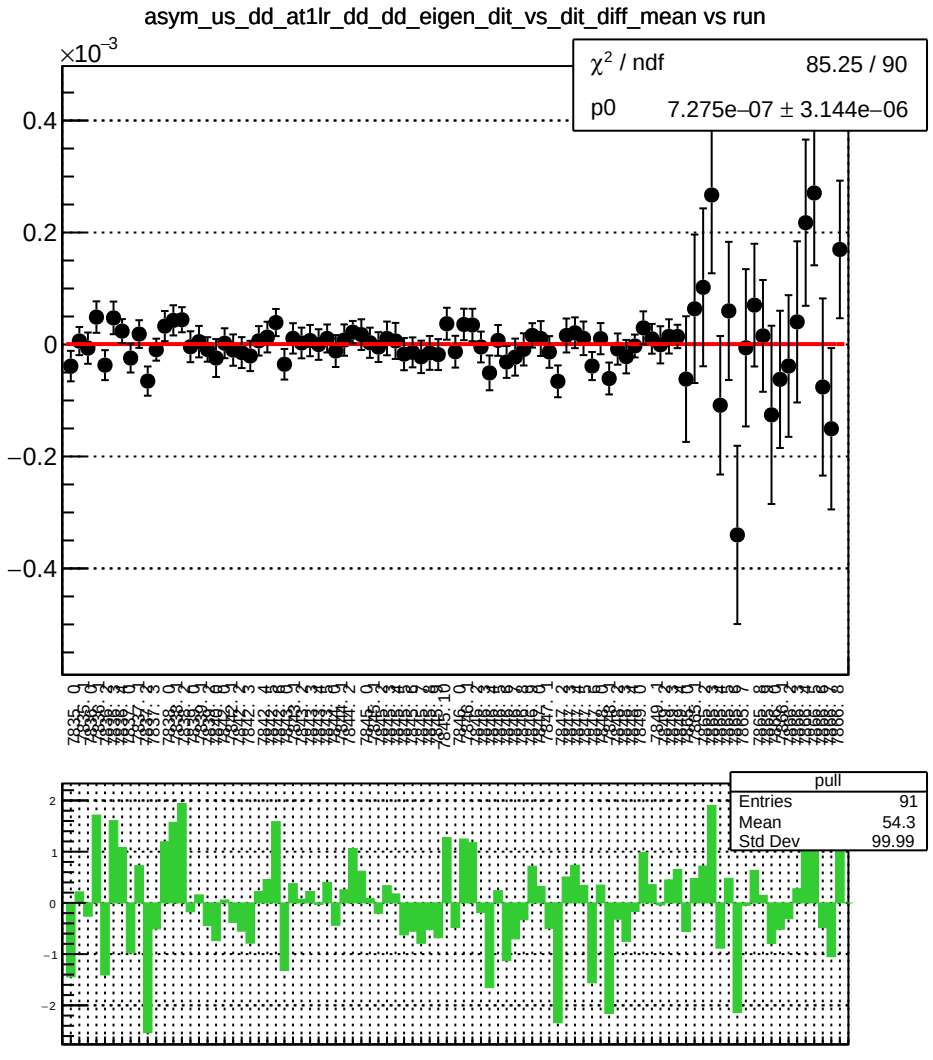

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 129.3 / 90
p0 0.05282 ± 0.05248
pull
Entries 91
Mean 344
Std Dev 0

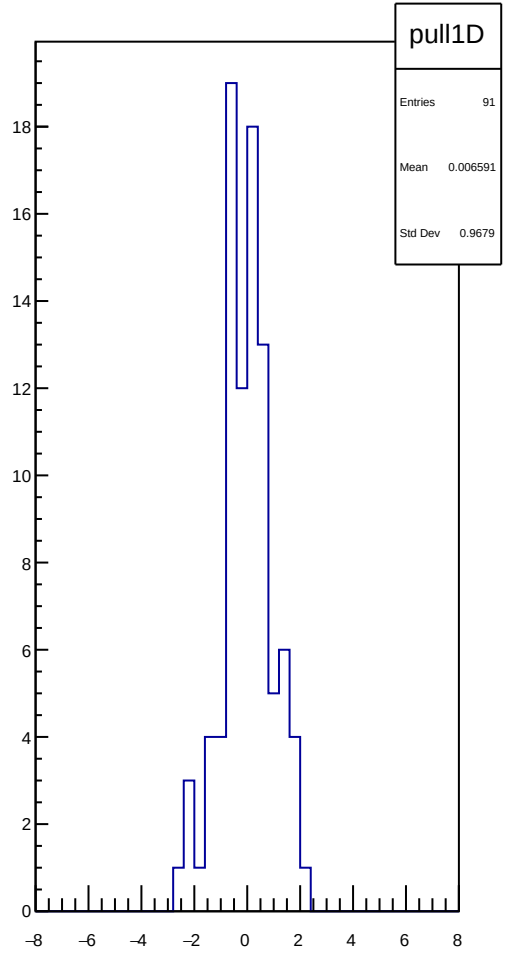

pull1D
Entries 91
Mean 0.01648
Std Dev 1.192

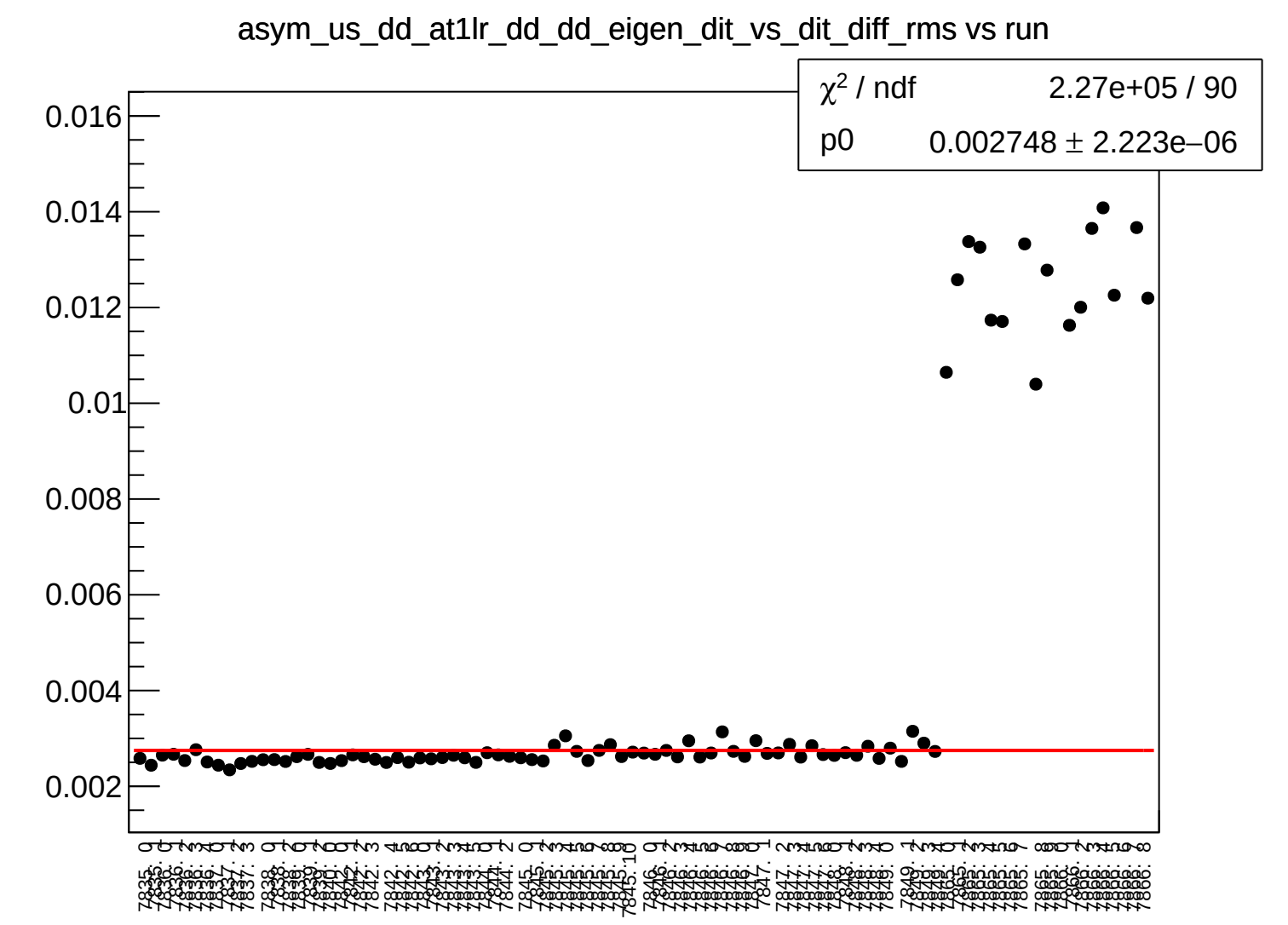

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.322e+05 / 90
p0 42.69 ± 0.03711
350
300
250
200
150
100
50

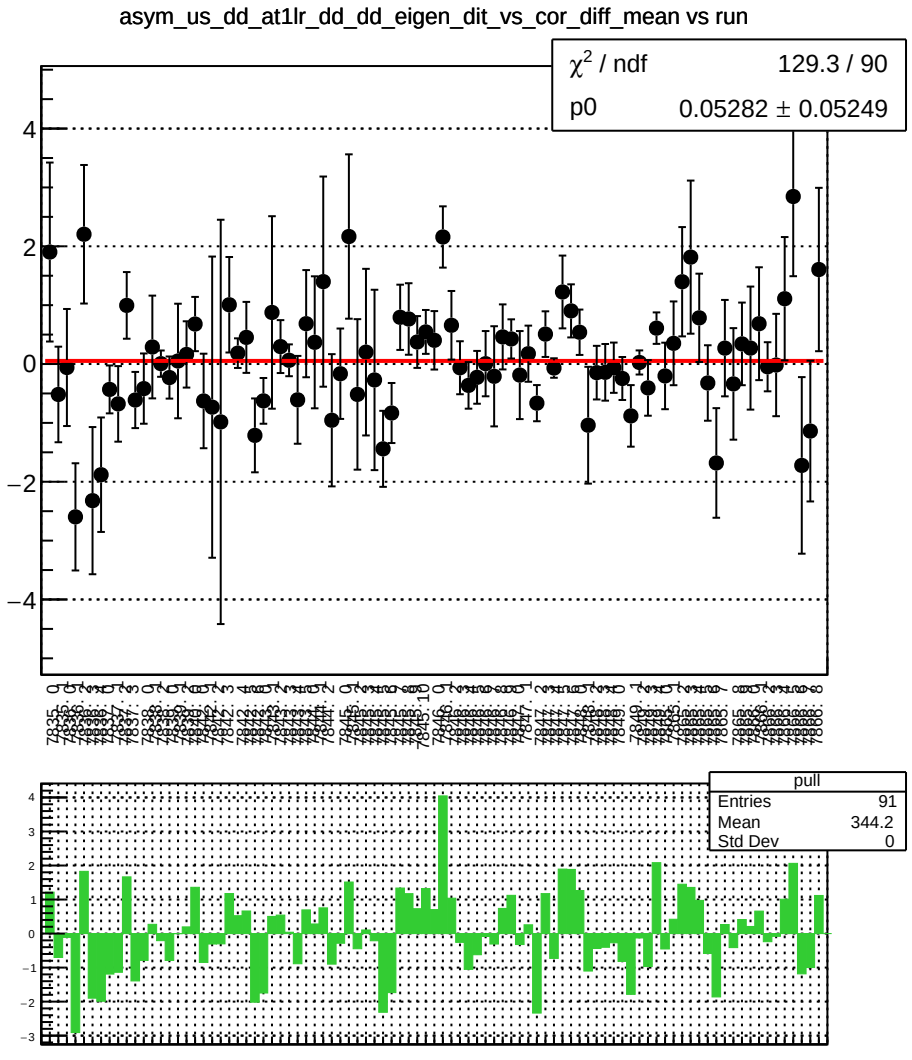

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 129.3 / 90
p0 0.05282 ± 0.05248
pull
Entries 91
Mean 344
Std Dev 0
pull1D
Entries 91
Mean 0.01648
Std Dev 1.192

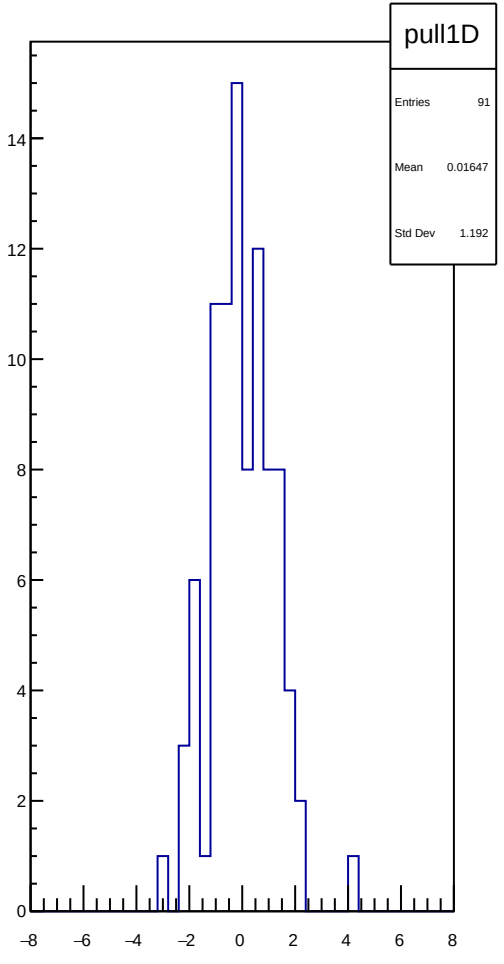

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.322e+05 / 90
p0 42.69 ± 0.03711
350
300
250
200
150
100
50

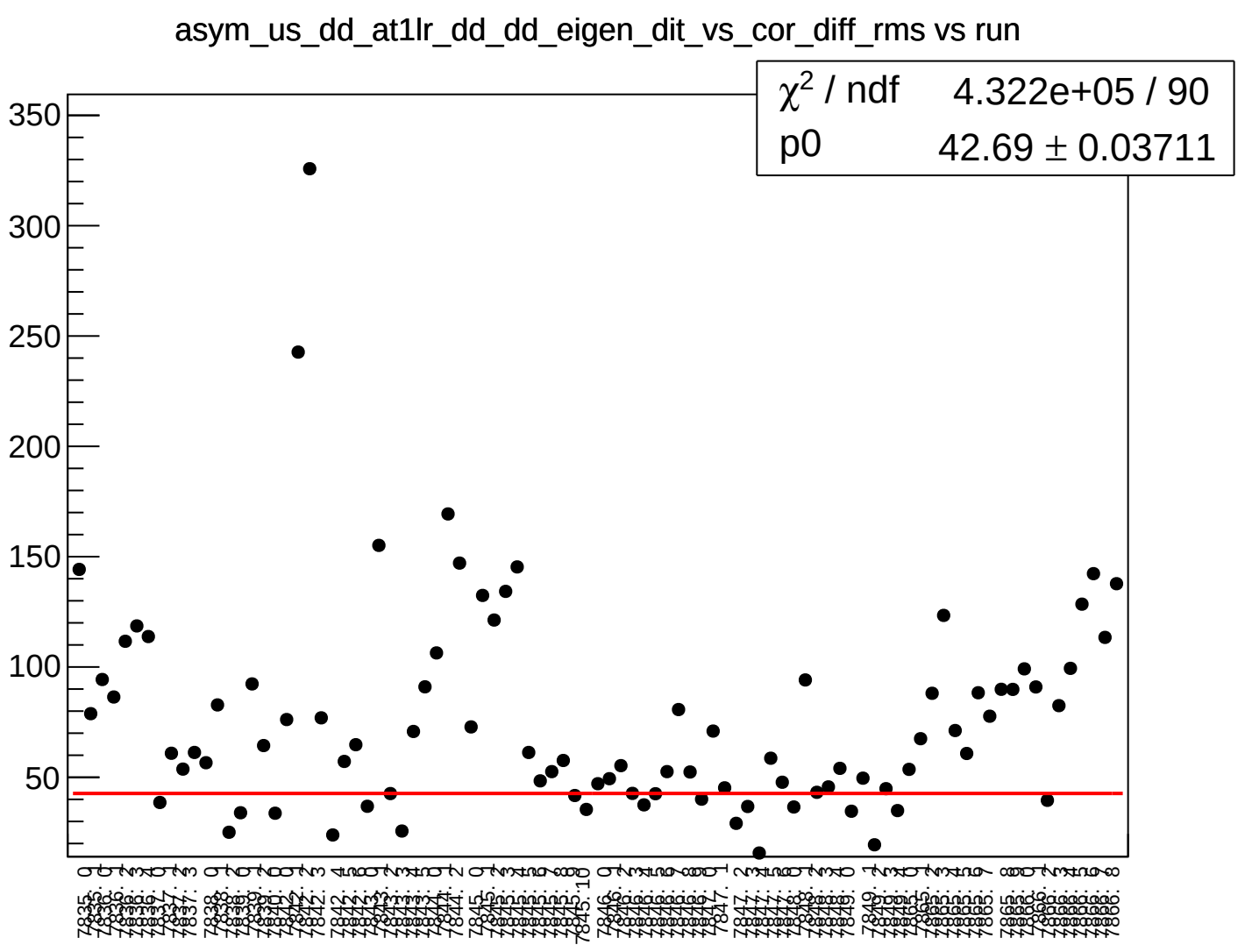

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.25 / 90
p0 7.275e−07 ± 3.144e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 54.3
Std Dev 99.99
2
1
0
−1
−2

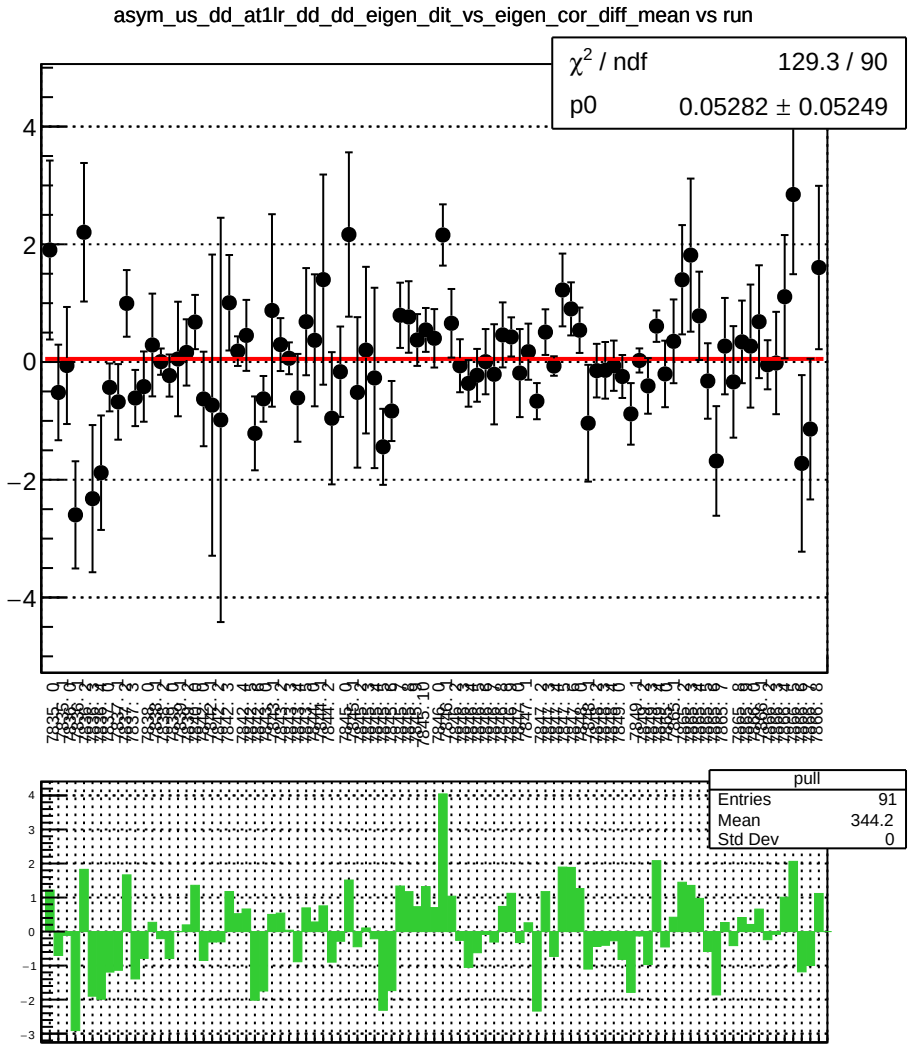

pull1D
Entries 91
Mean 0.006591
Std Dev 0.9679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

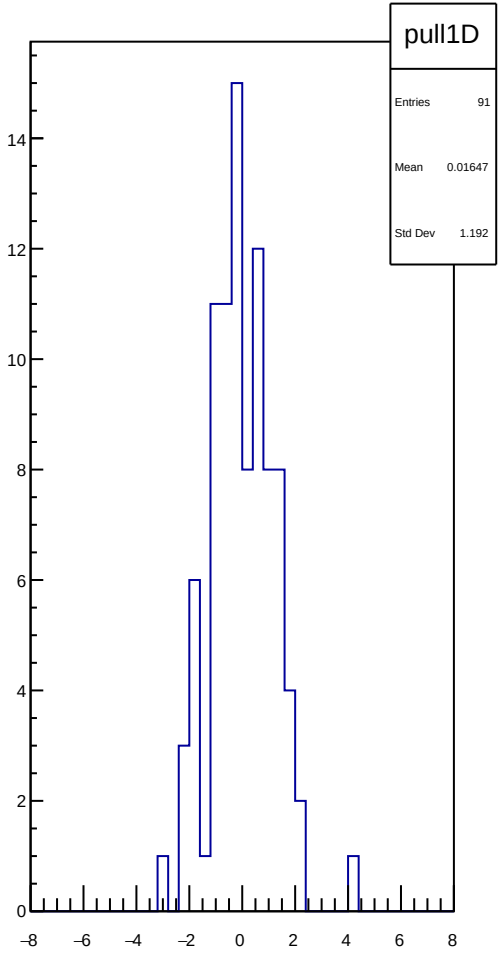

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.27e+05 / 90
p0 0.002748 ± 2.223e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

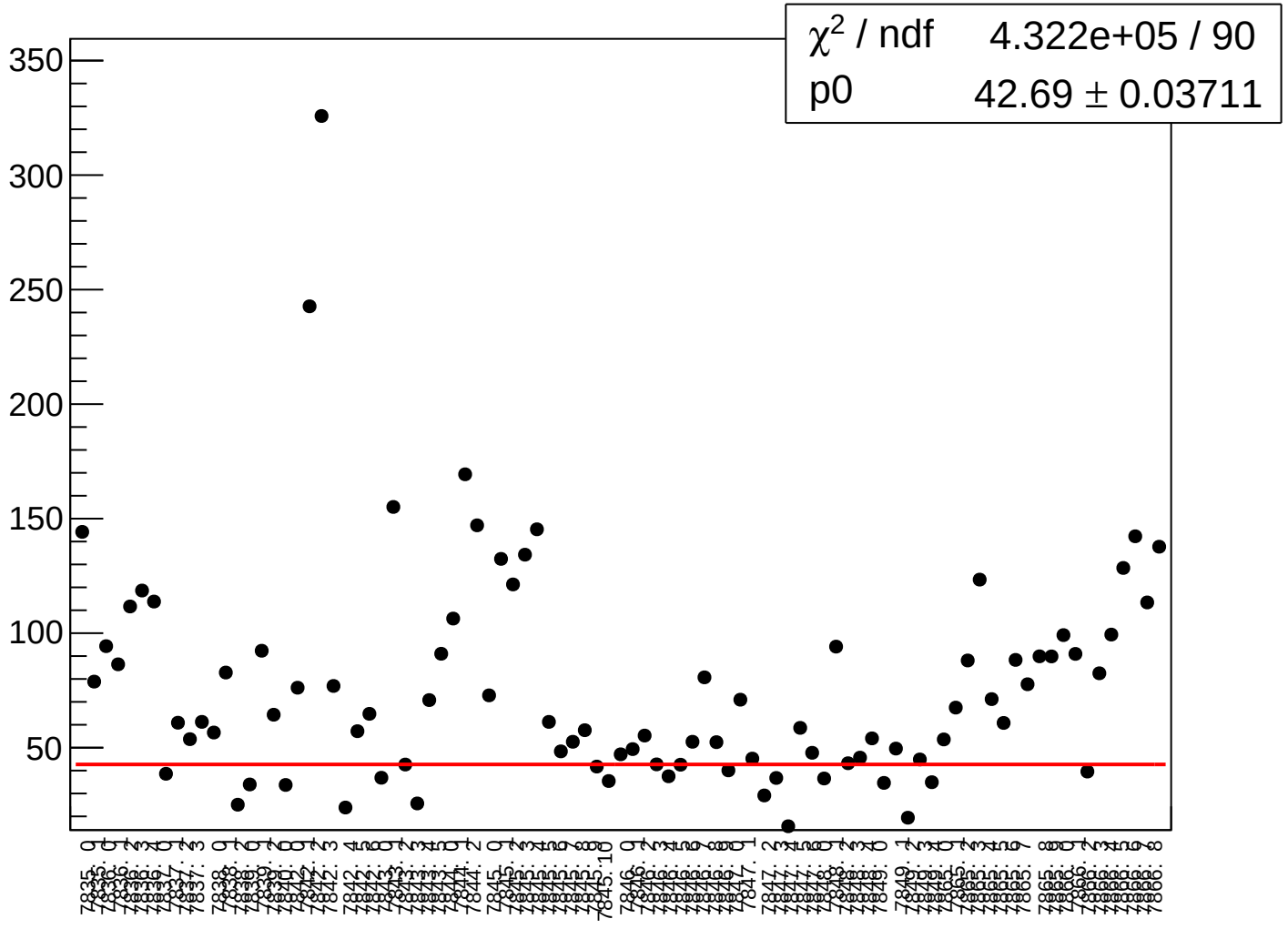

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 129.3 / 90
p0 0.05282 ± 0.05249
pull
Entries 91
Mean 344.2
Std Dev 0

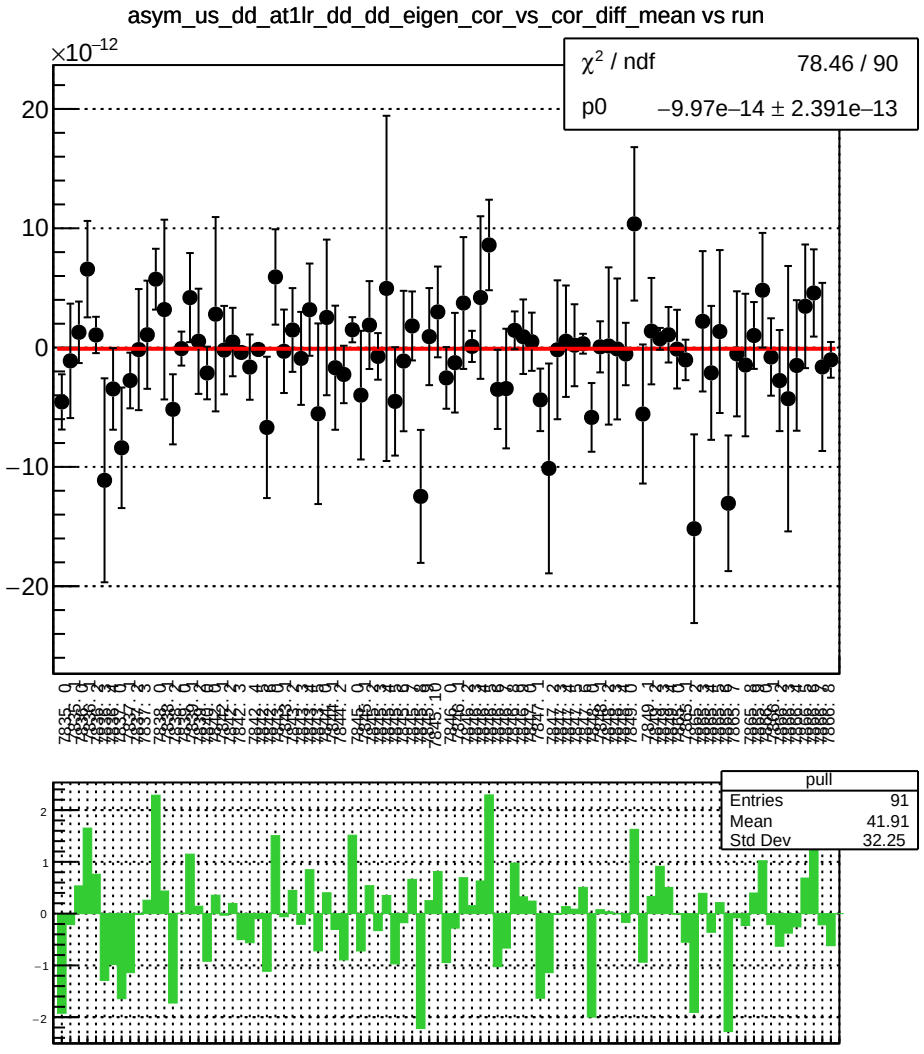

pull1D
Entries 91
Mean 0.01647
Std Dev 1.192

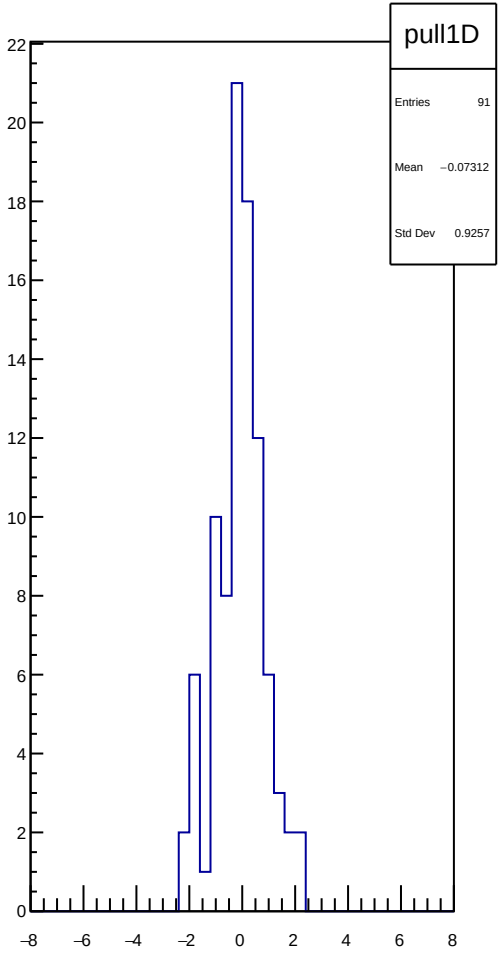

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.322e+05 / 90
p0 42.69 ± 0.03711
350
300
250
200
150
100
50

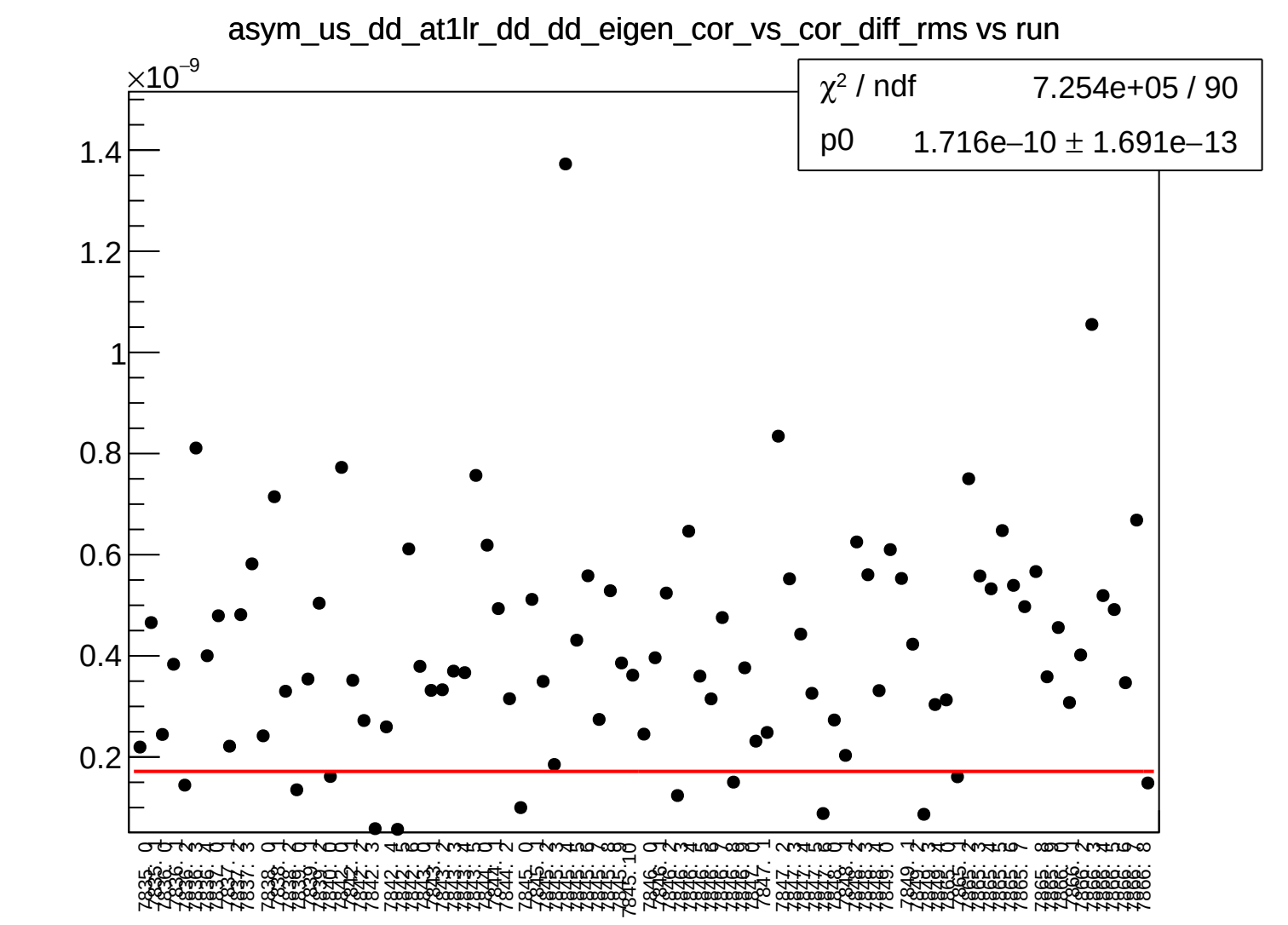

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 129.3 / 90
p0 0.05282 ± 0.05249
pull
Entries 91
Mean 344.2
Std Dev 0

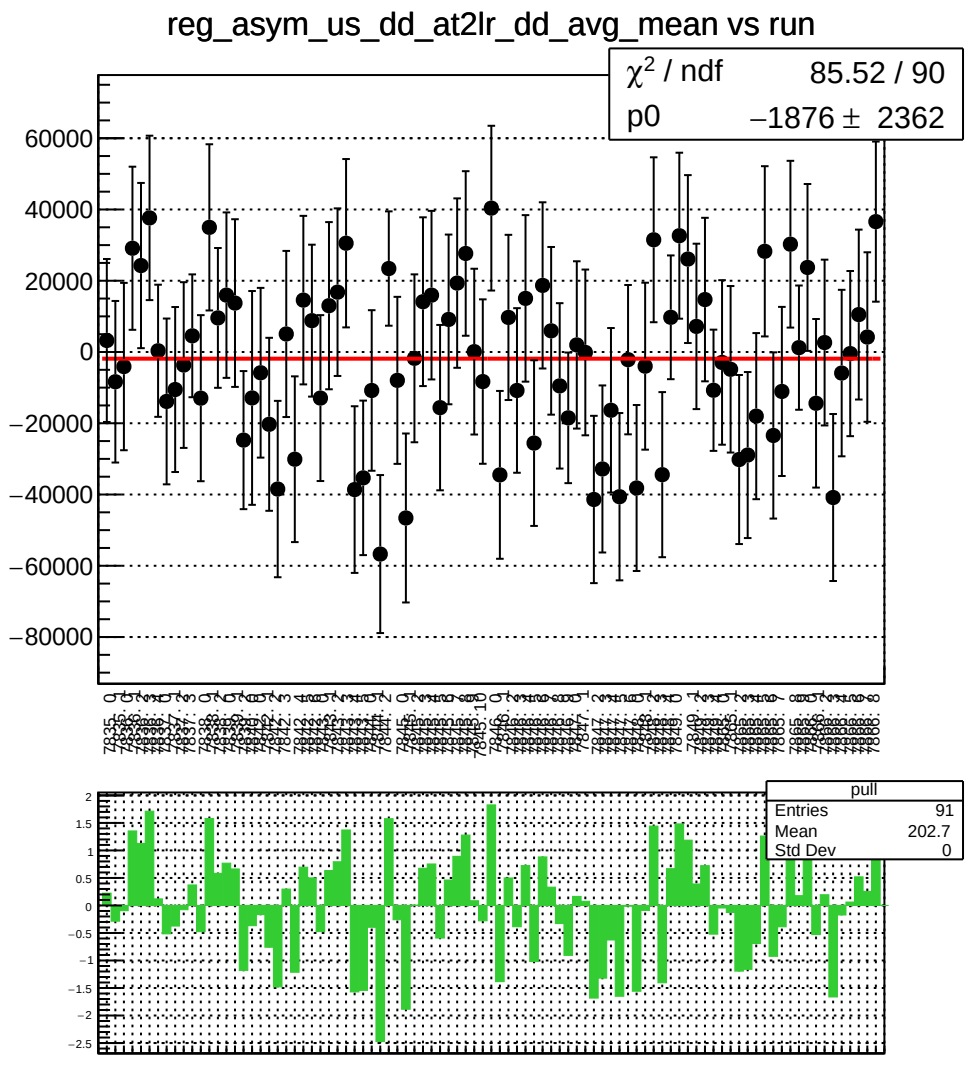

pull1D
Entries 91
Mean 0.01647
Std Dev 1.192

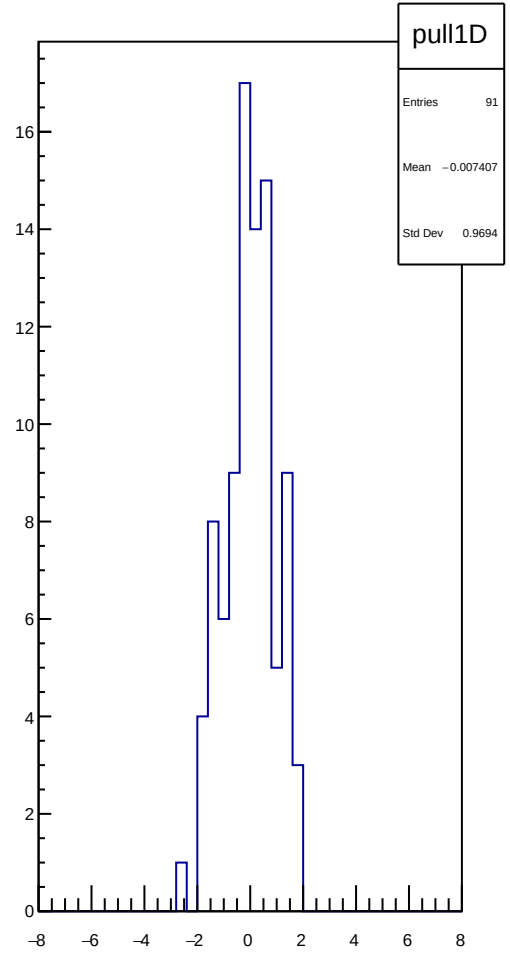

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.322e+05 / 90
p0 42.69 ± 0.03711
350
300
250
200
150
100
50

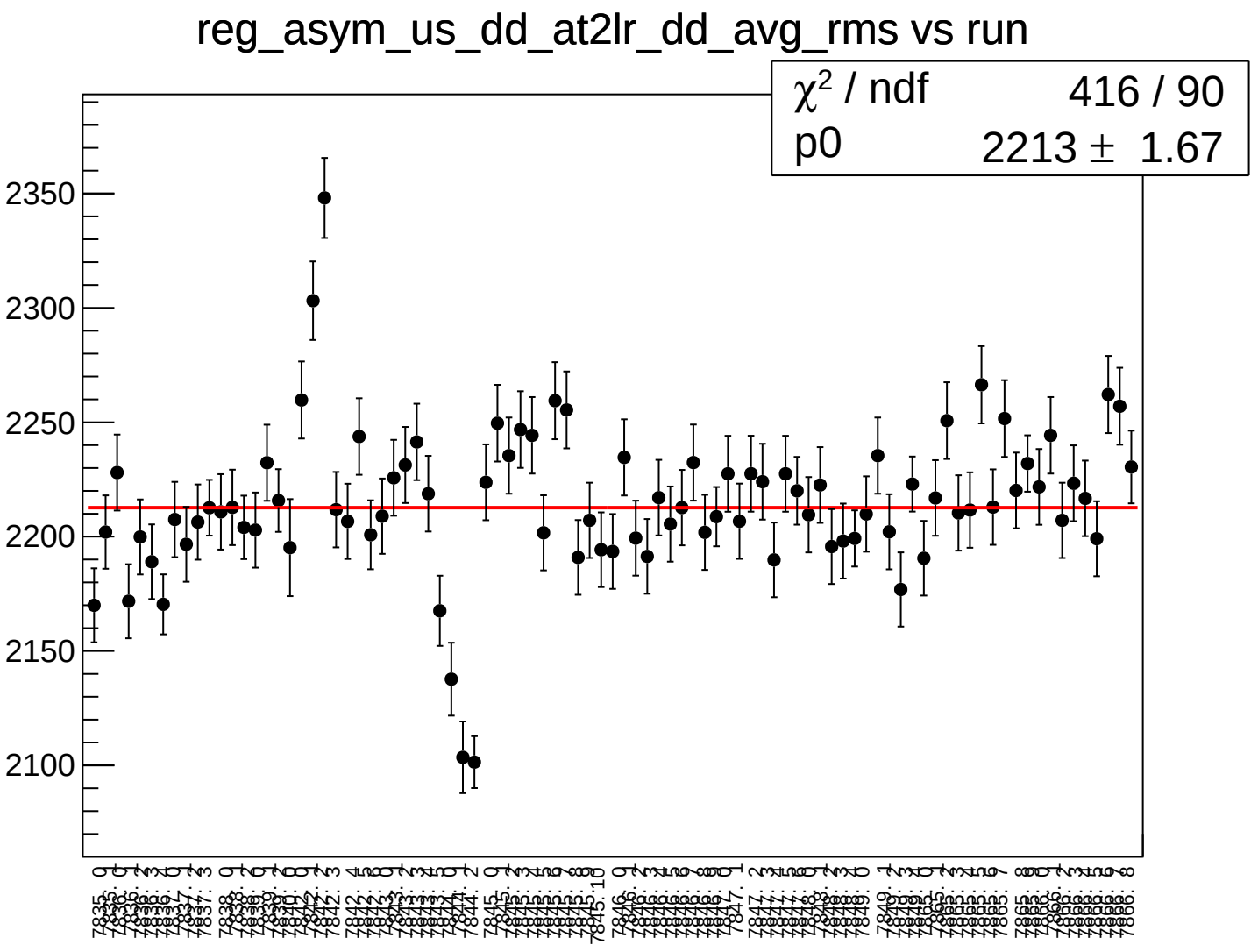

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.46 / 90
p0 −9.97e−14 ± 2.391e−13
pull
Entries 91
Mean 41.91
Std Dev 32.25

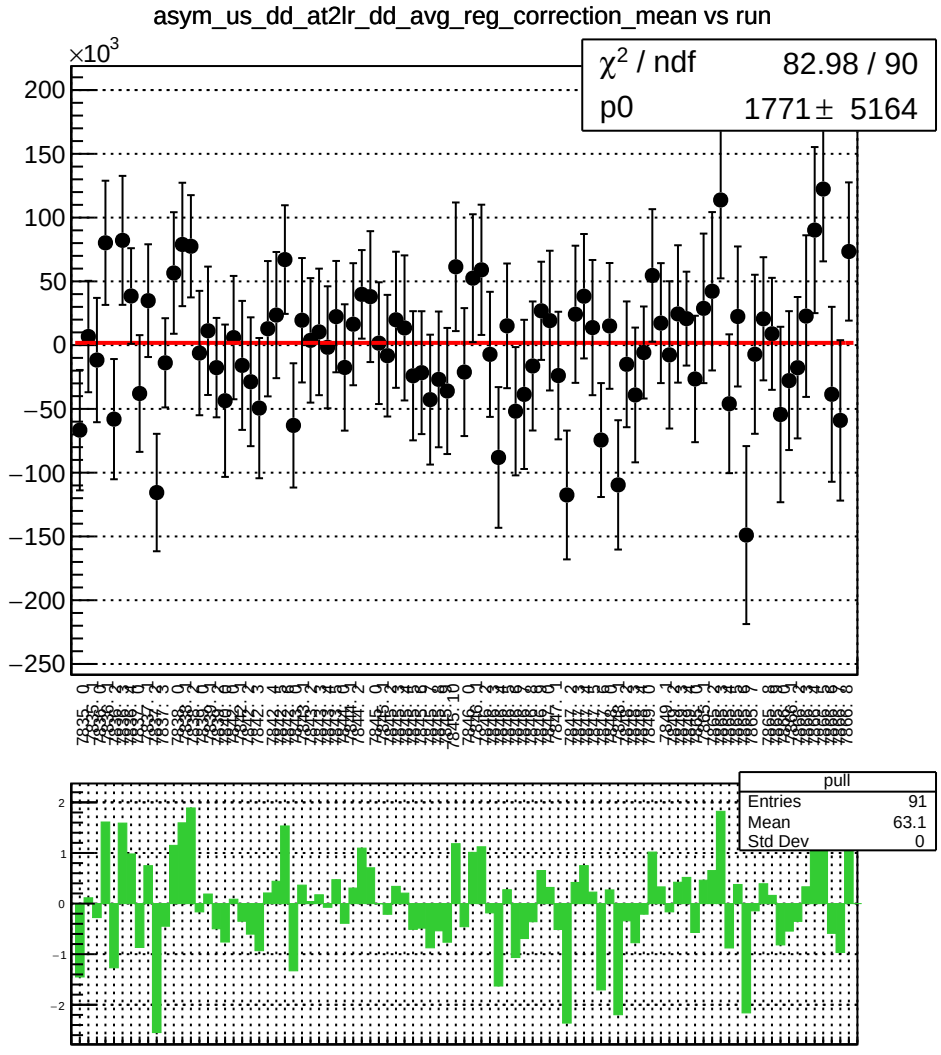

pull1D
Entries 91
Mean −0.07312
Std Dev 0.9257

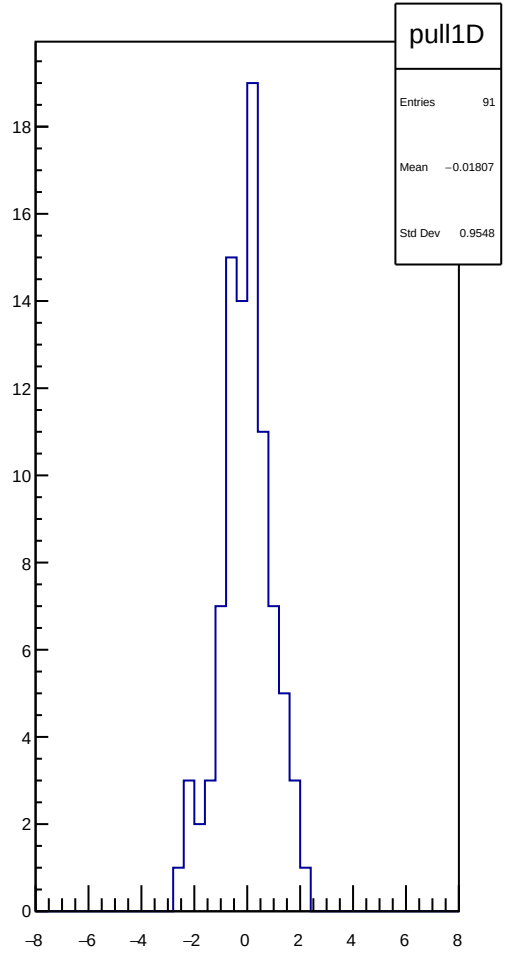

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.254e+05 / 90
p0 1.716e−10 ± 1.691e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

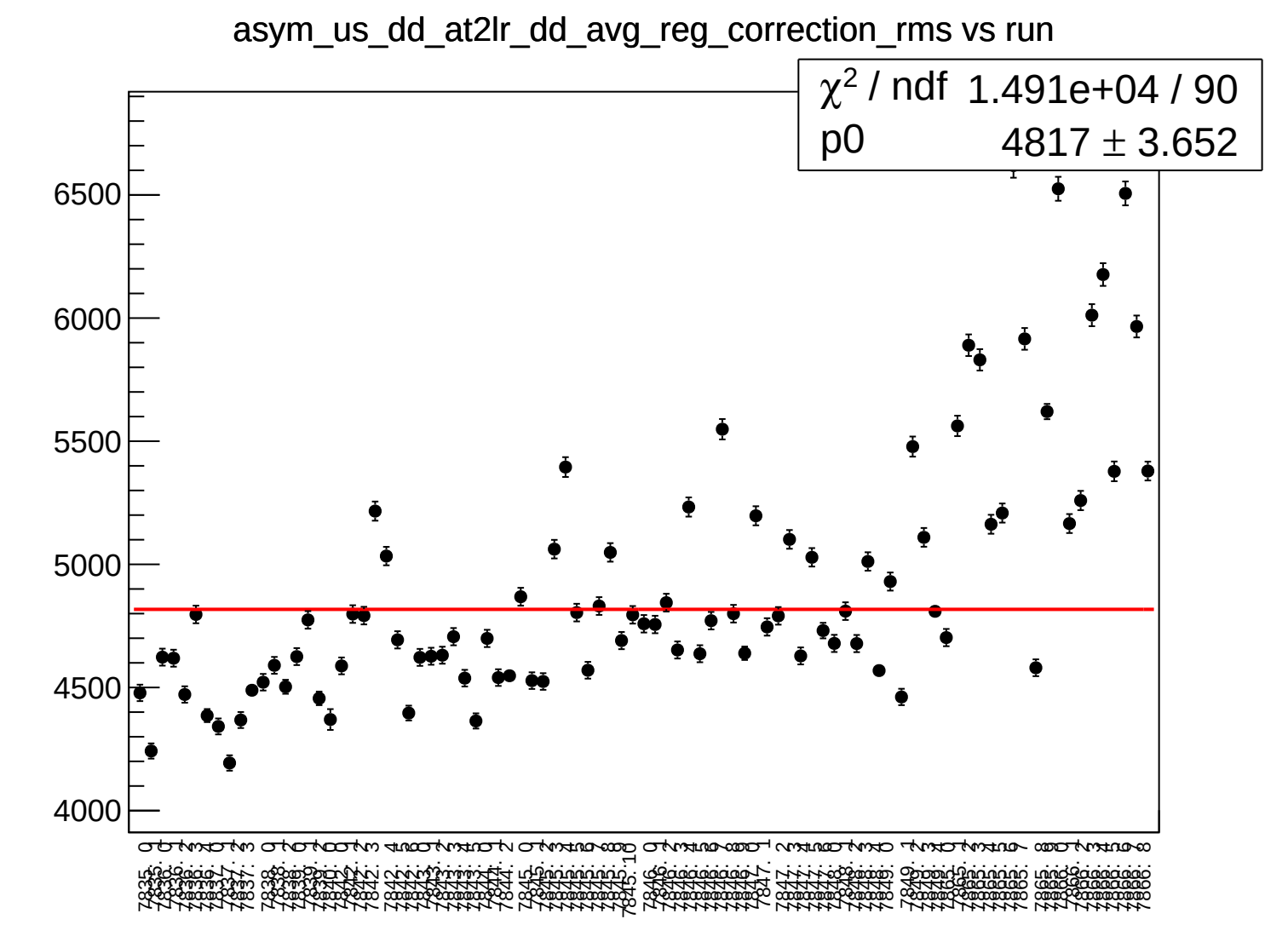

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 85.52 / 90
p0 −1876 ± 2362
pull
Entries 91
Mean 202.7
Std Dev 0

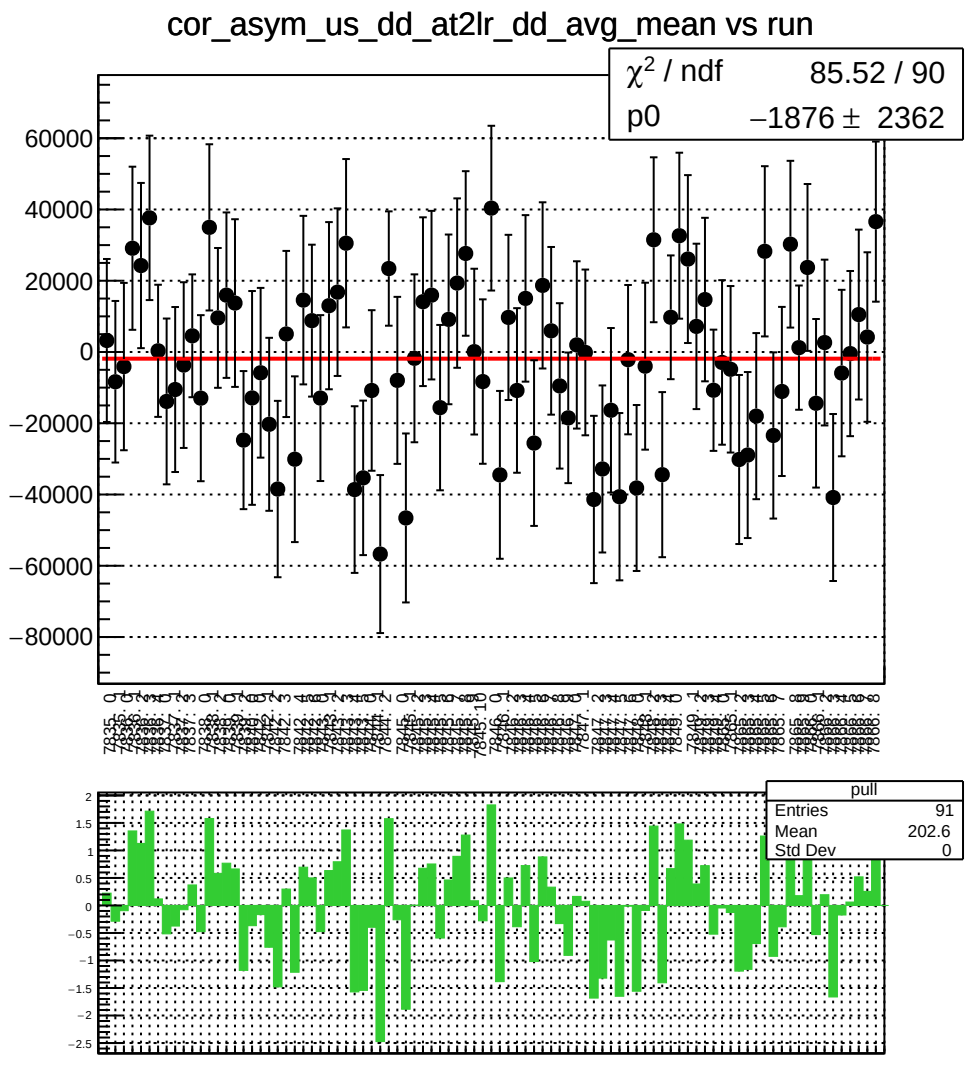

pull1D
Entries 91
Mean −0.007407
Std Dev 0.9694

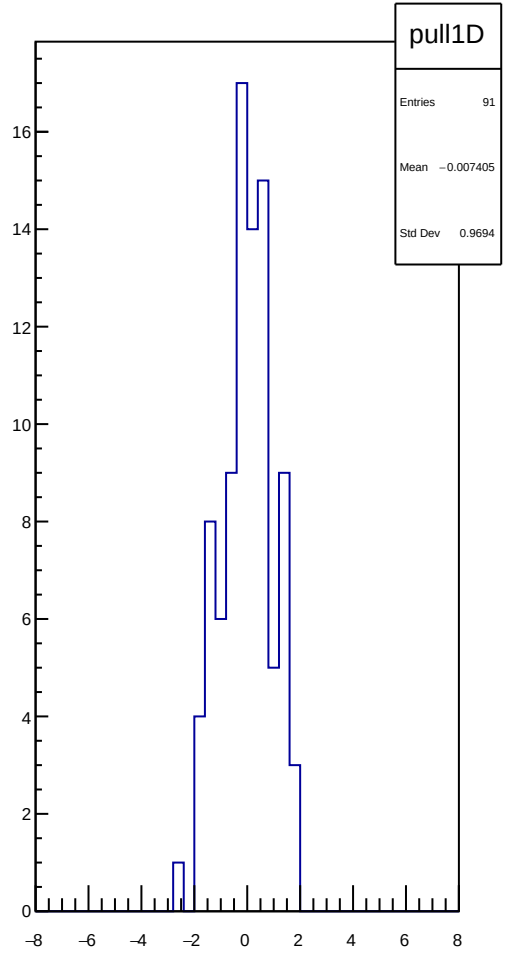

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 416 / 90
p0 2213 ± 1.67
2350
2300
2250
2200
2150
2100

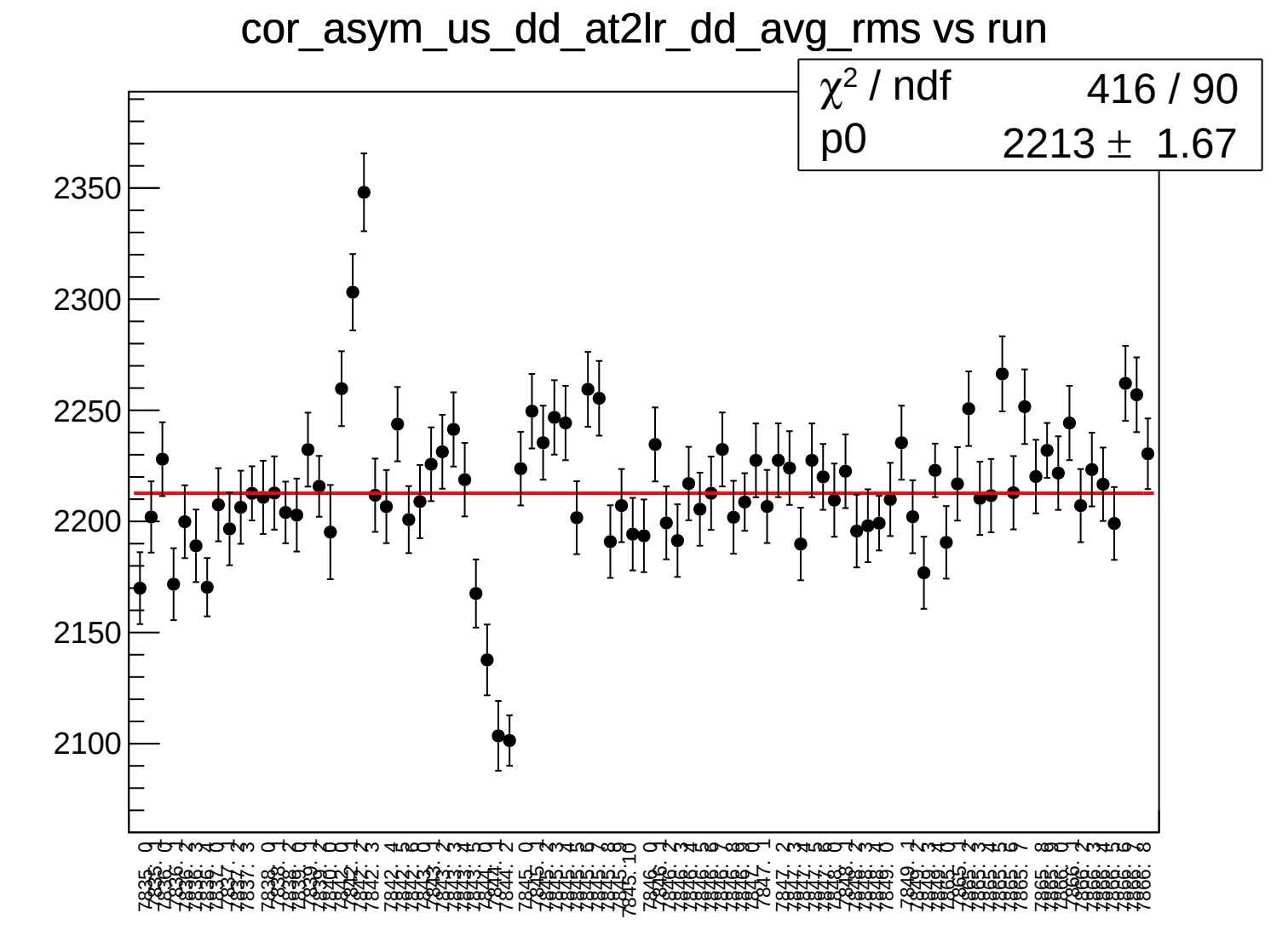

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.98 / 90
p0 1771 ± 5164
pull
Entries 91
Mean 63.1
Std Dev 0

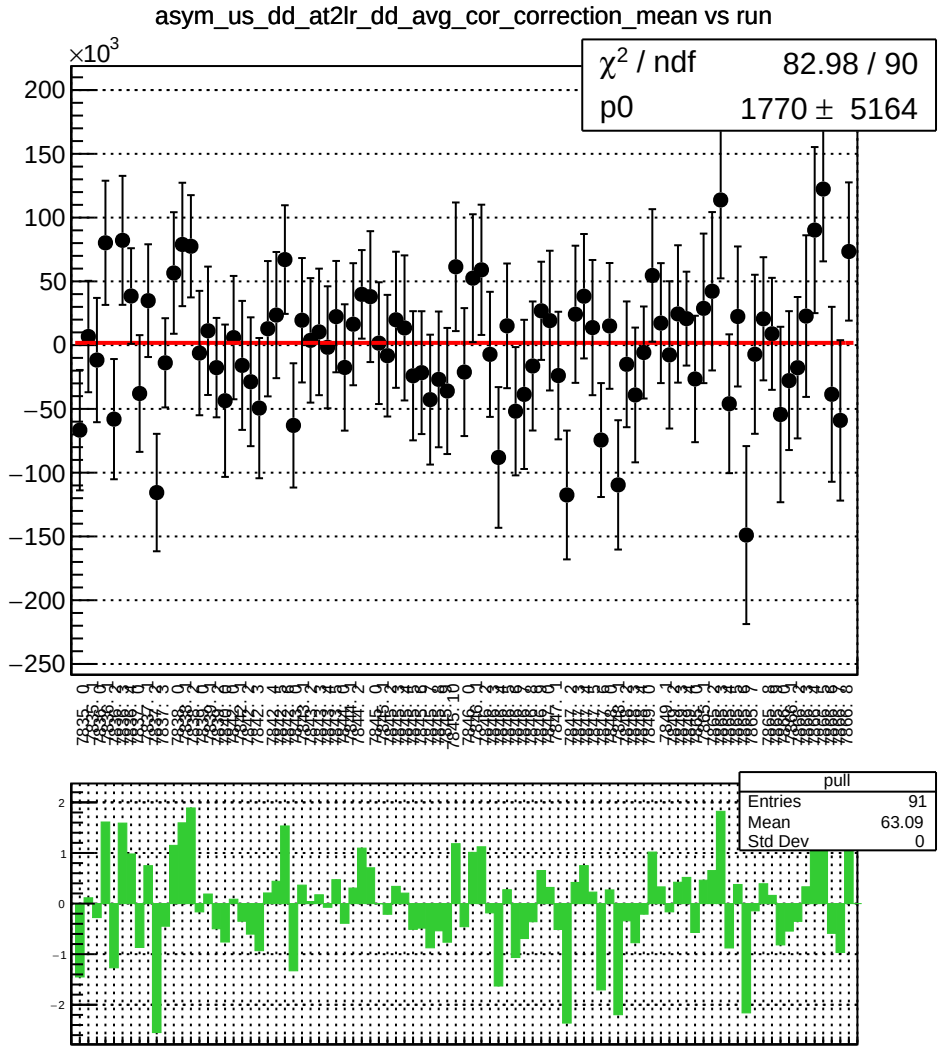

pull1D
Entries 91
Mean −0.01807
Std Dev 0.9548

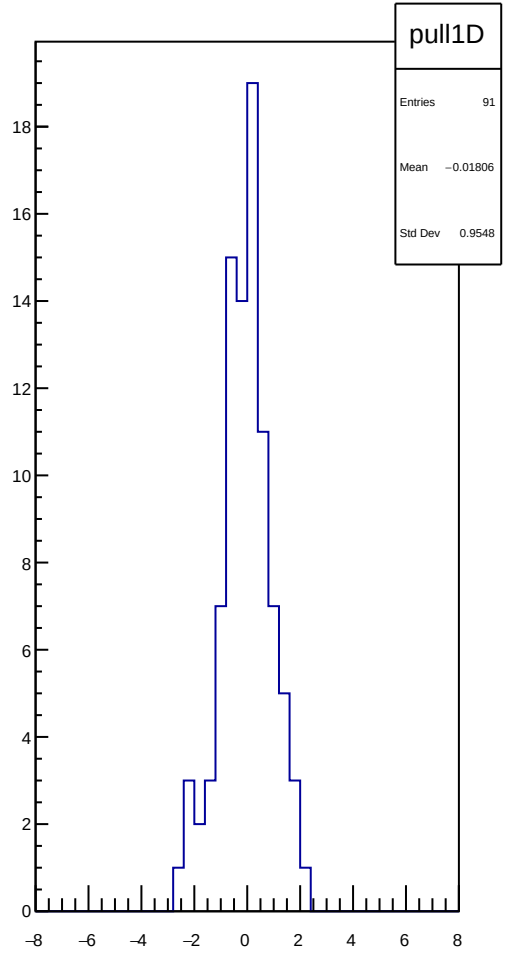

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.491e+04 / 90
p0 4817 ± 3.652
6500
6000
5500
5000
4500
4000

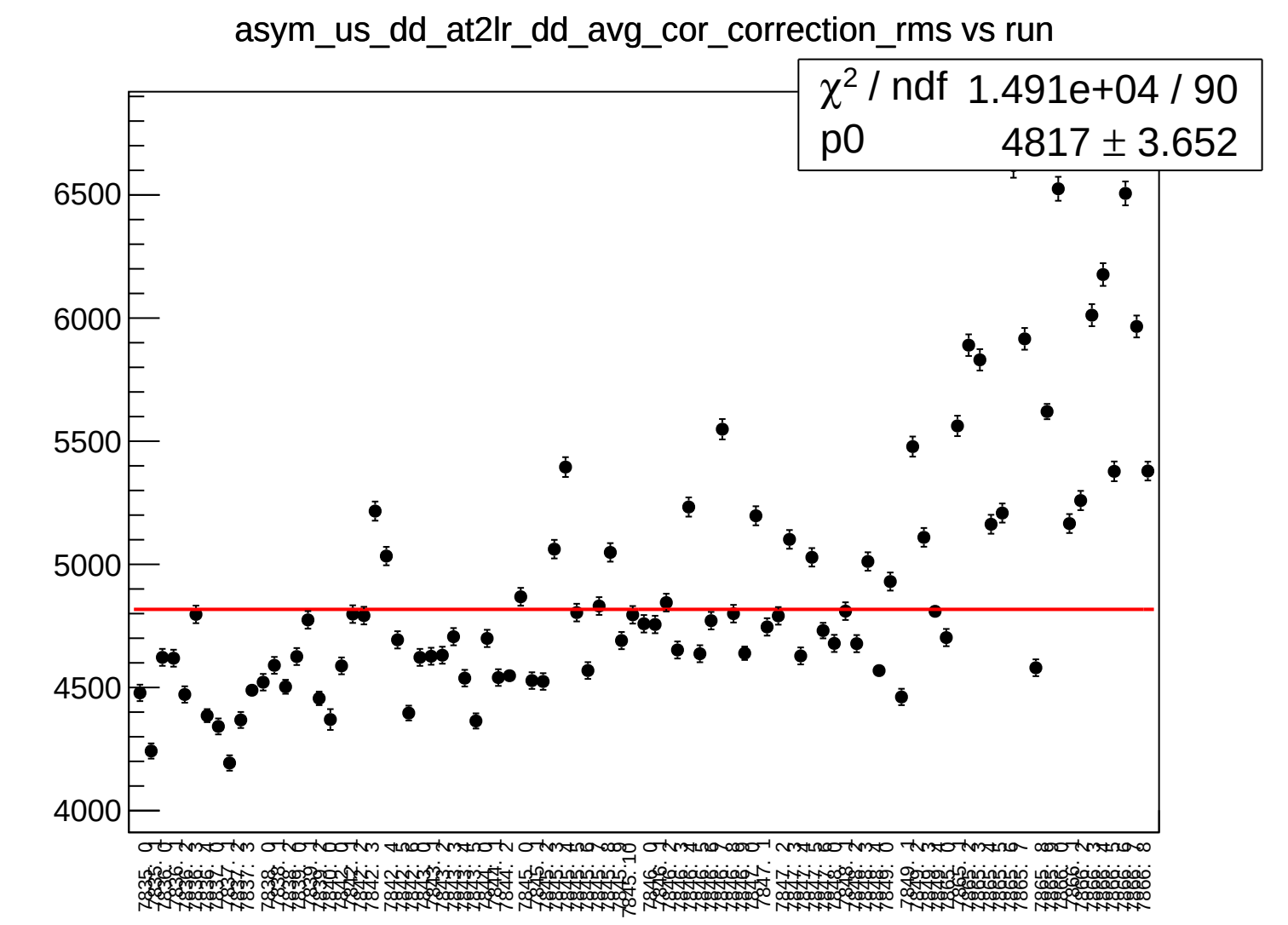

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 85.52 / 90
p0 −1876 ± 2362
pull
Entries 91
Mean 202.6
Std Dev 0

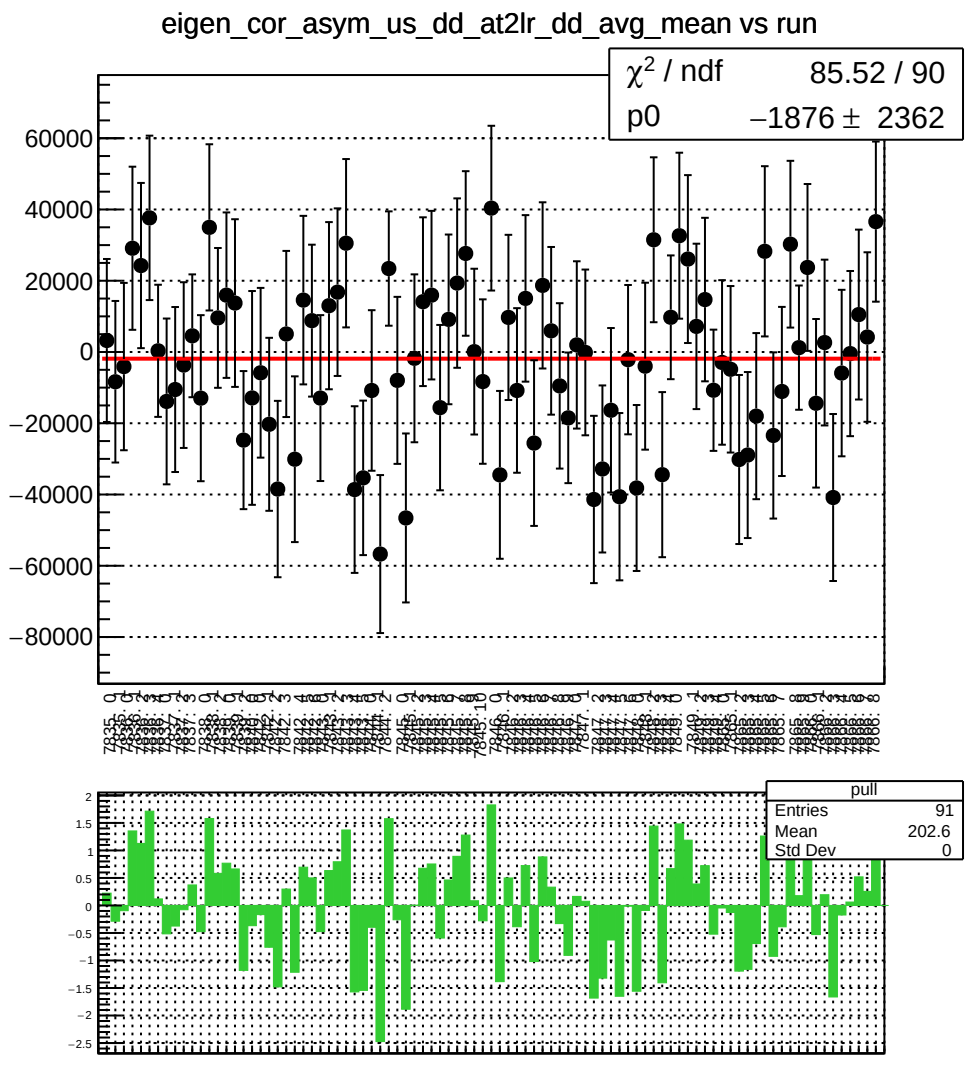

pull1D
Entries 91
Mean −0.007405
Std Dev 0.9694

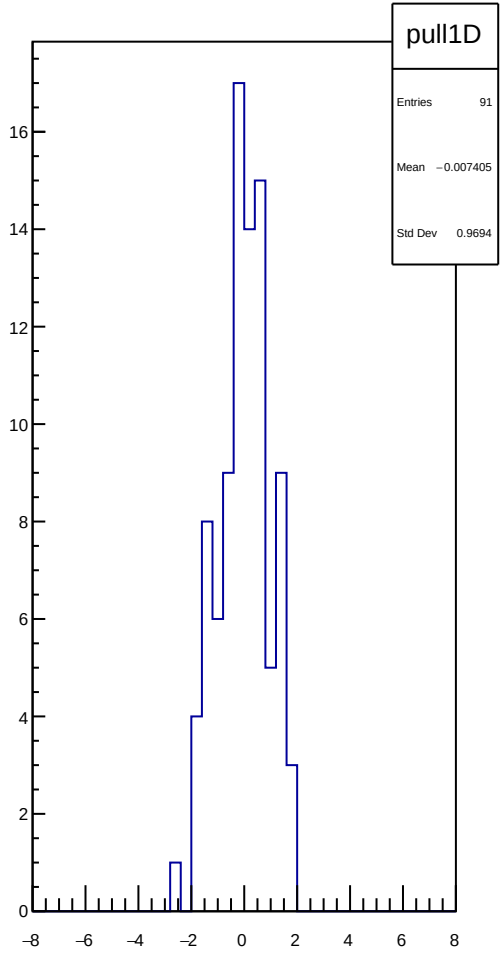

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 416 / 90
p0 2213 ± 1.67
2350
2300
2250
2200
2150
2100

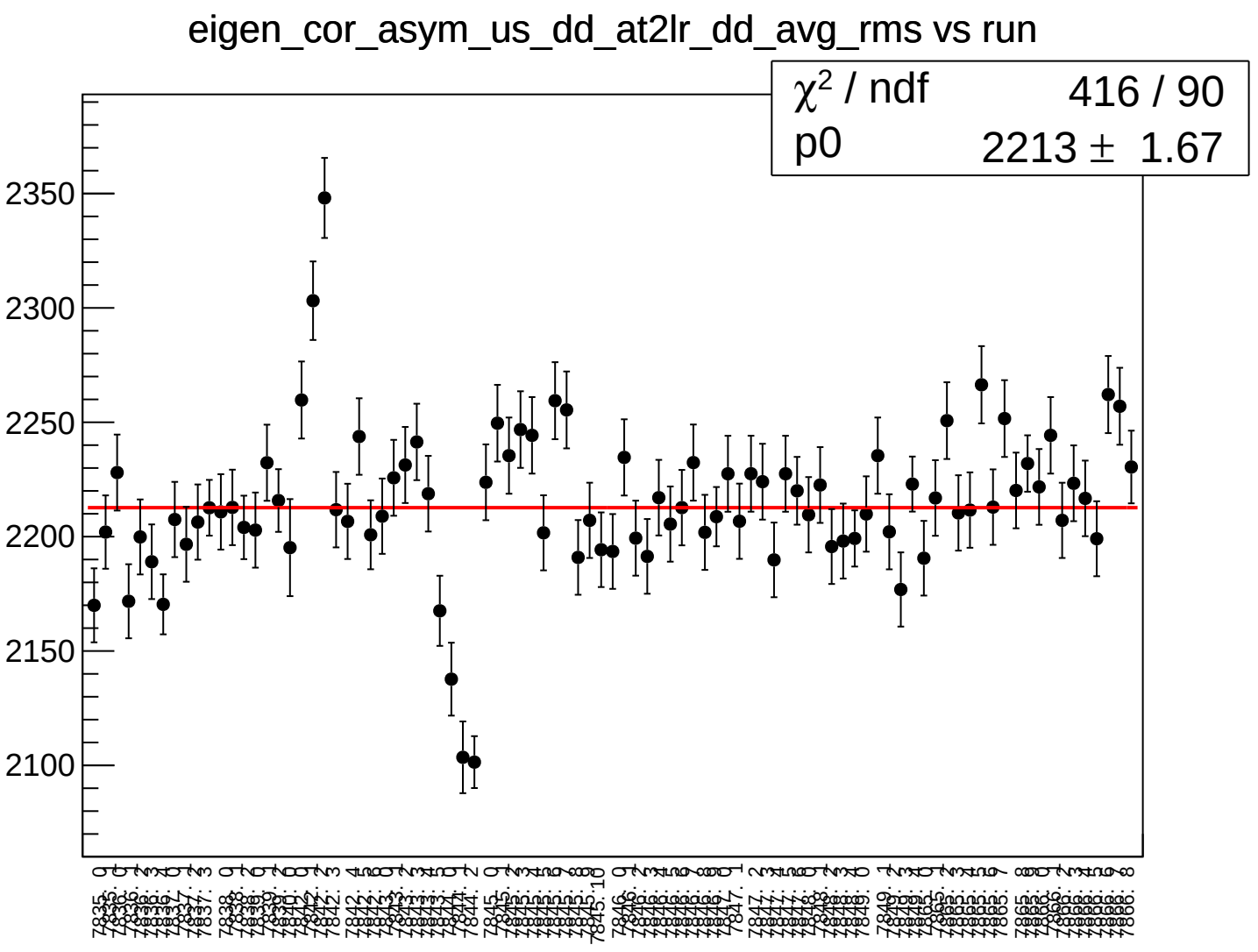

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.98 / 90
p0 1770 ± 5164
pull
Entries 91
Mean 63.09
Std Dev 0

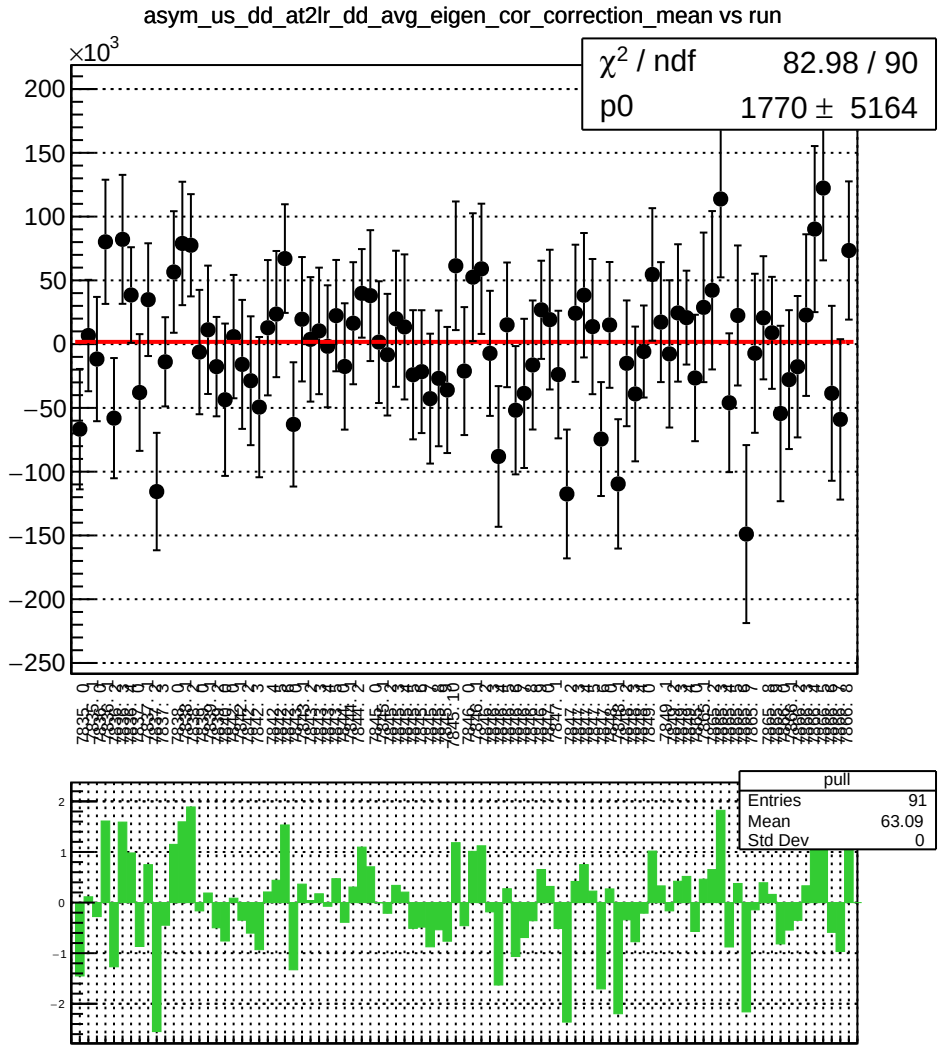

pull1D
Entries 91
Mean −0.01806
Std Dev 0.9548

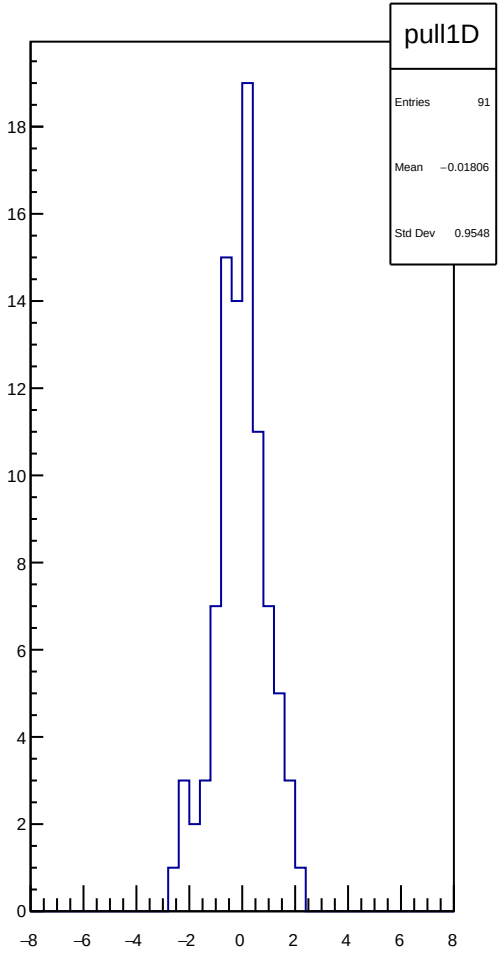

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.491e+04 / 90
p0 4817 ± 3.652
6500
6000
5500
5000
4500
4000

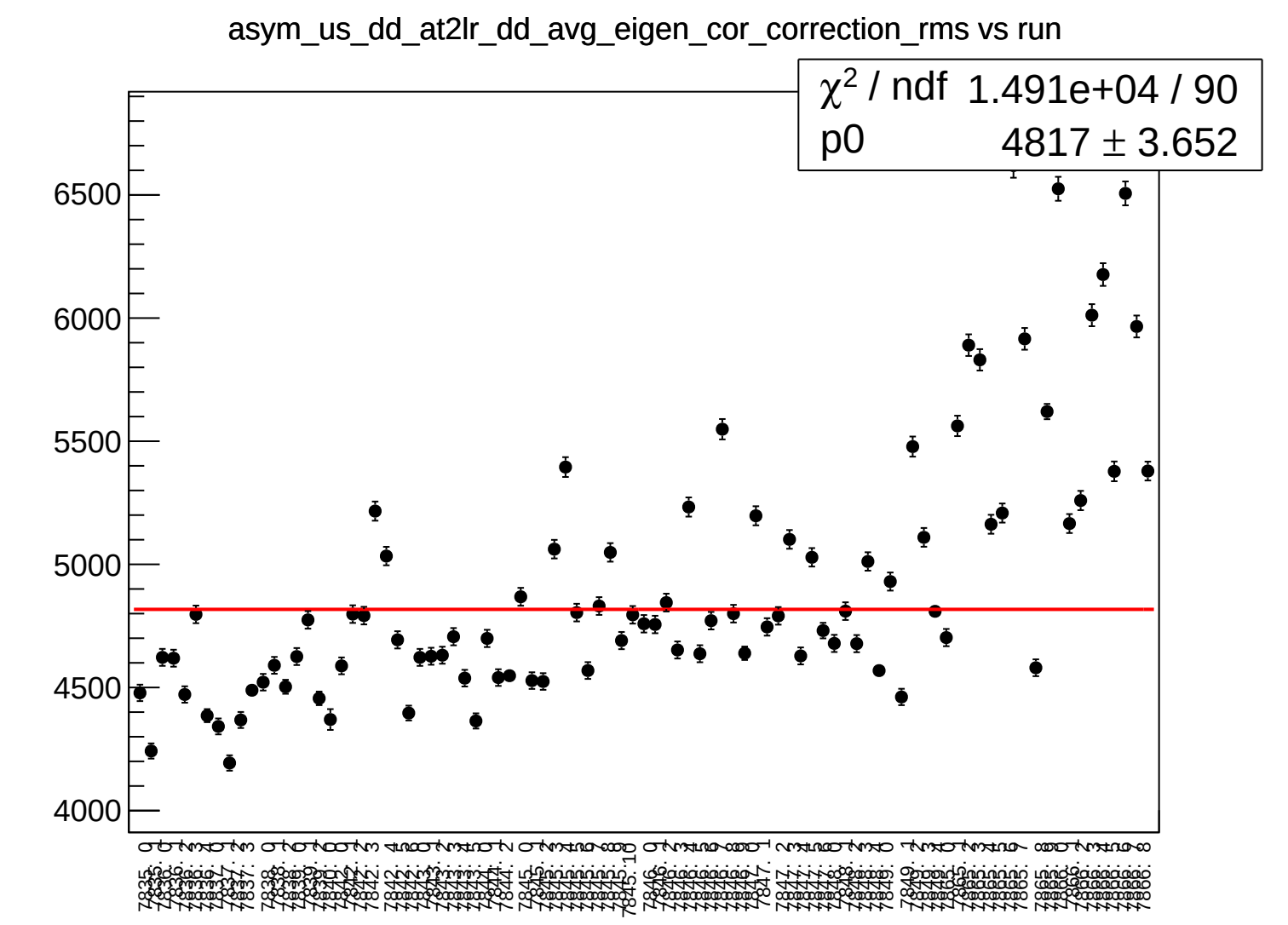

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 85.52 / 90
p0 −1876 ± 2362
pull
Entries 91
Mean 202.6
Std Dev 0

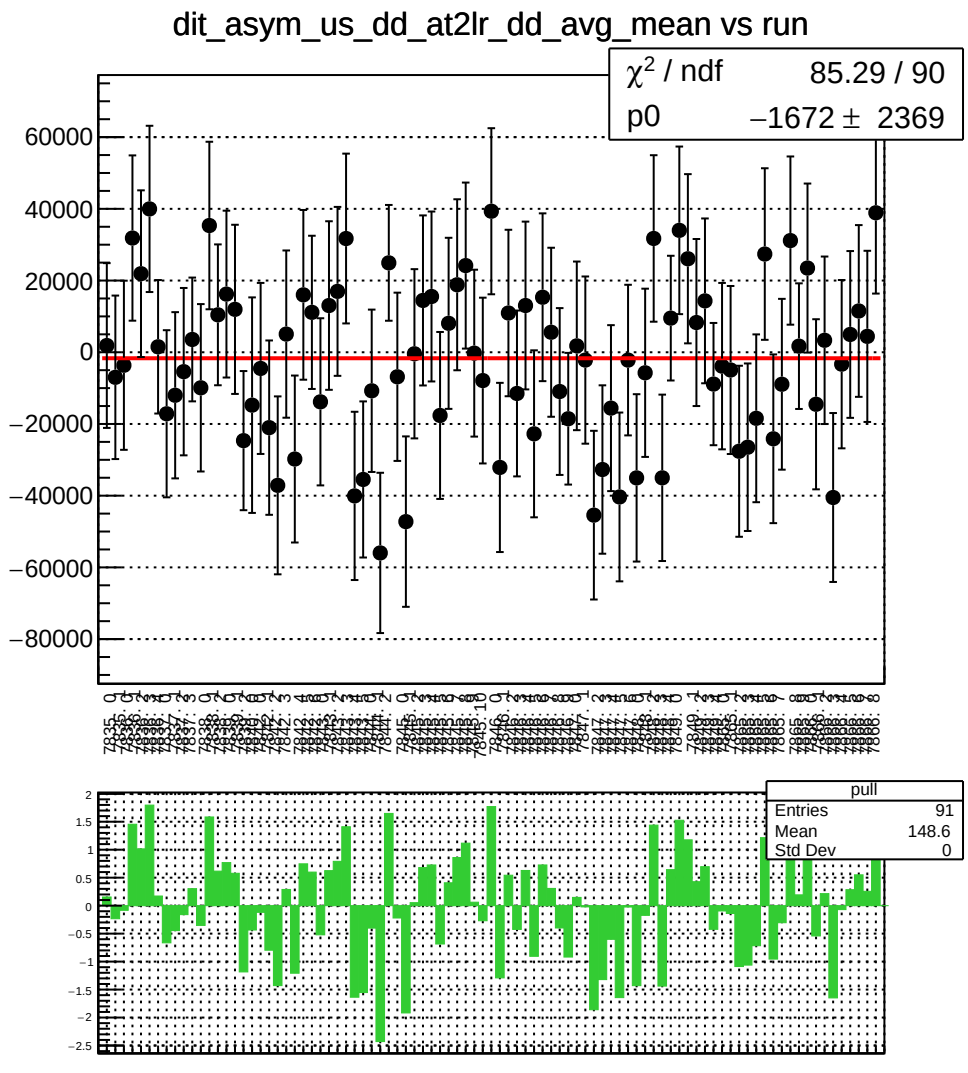

pull1D
Entries 91
Mean −0.007405
Std Dev 0.9694

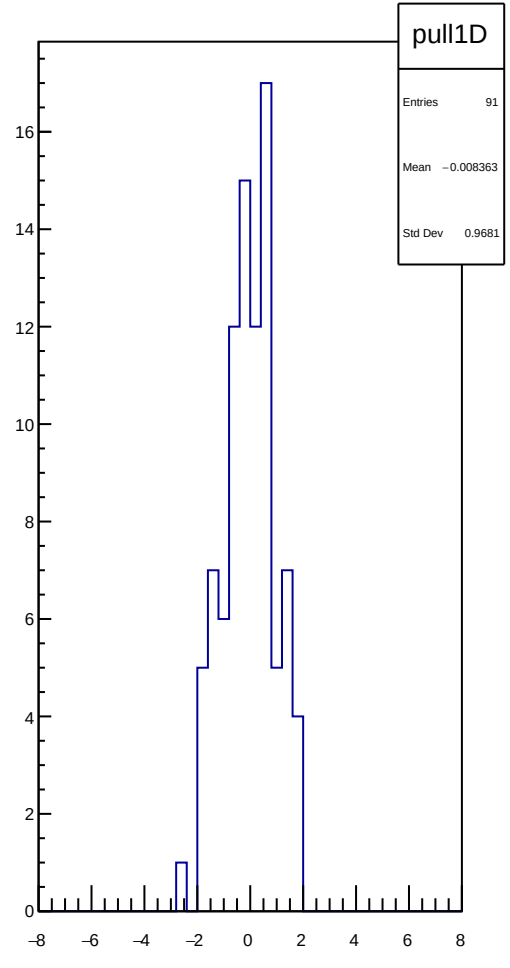

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 416 / 90
p0 2213 ± 1.67
2350
2300
2250
2200
2150
2100

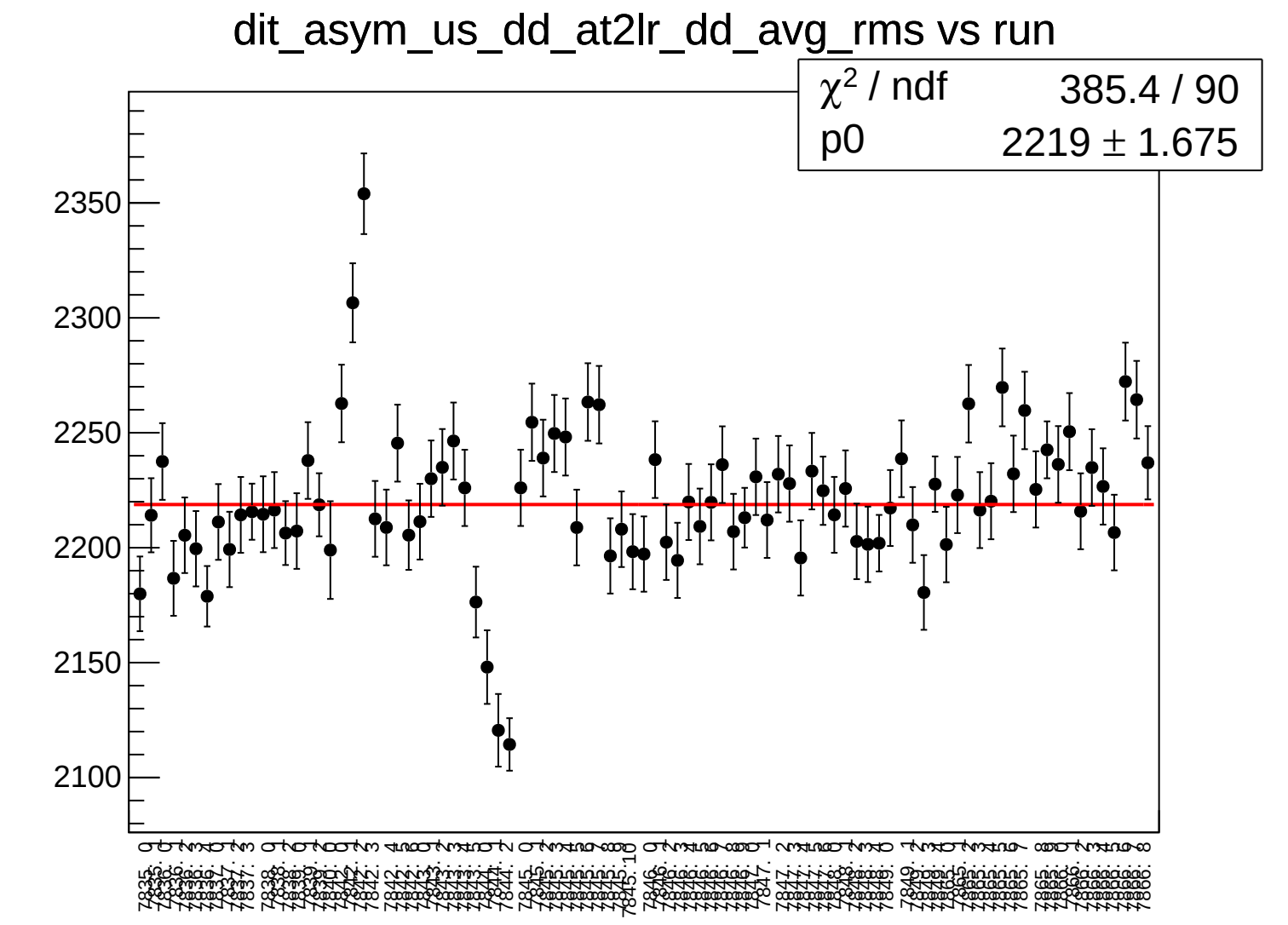

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.98 / 90
p0 1770 ± 5164
pull
Entries 91
Mean 63.09
Std Dev 0

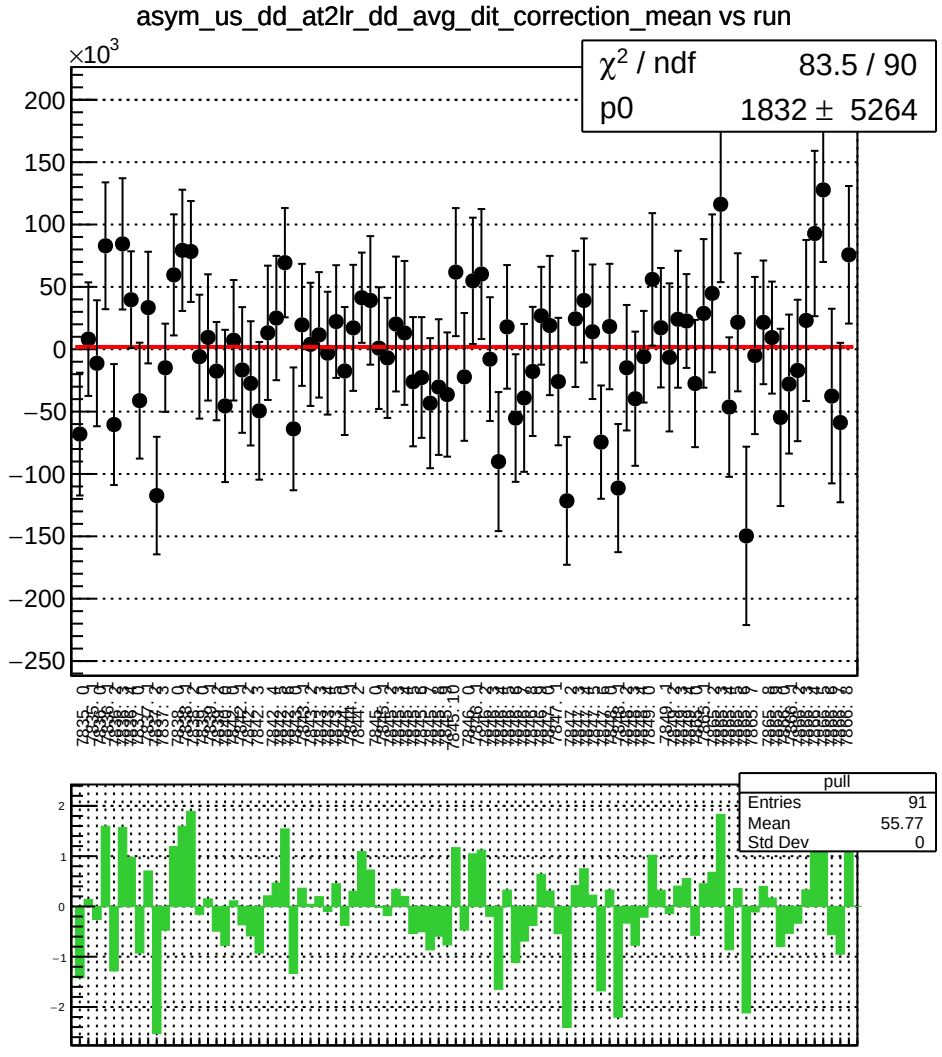

pull1D
Entries 91
Mean −0.01806
Std Dev 0.9548

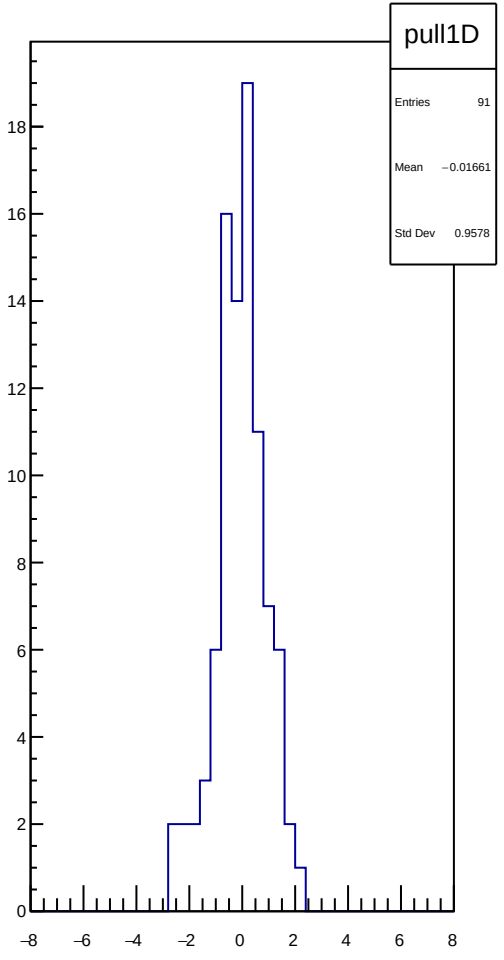

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.491e+04 / 90
p0 4817 ± 3.652
6500
6000
5500
5000
4500
4000

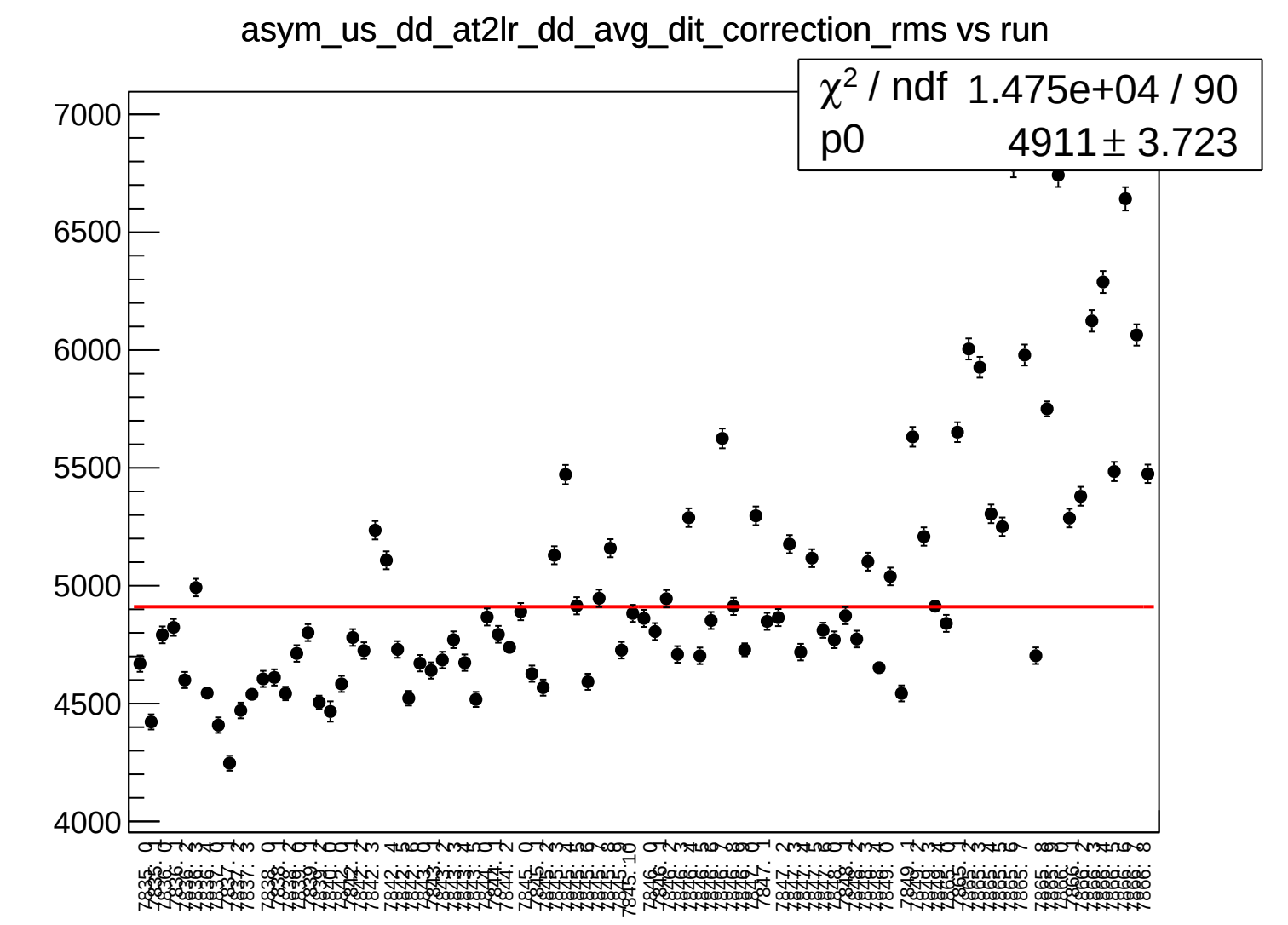

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 85.29 / 90
p0 −1672 ± 2369
pull
Entries 91
Mean 148.6
Std Dev 0

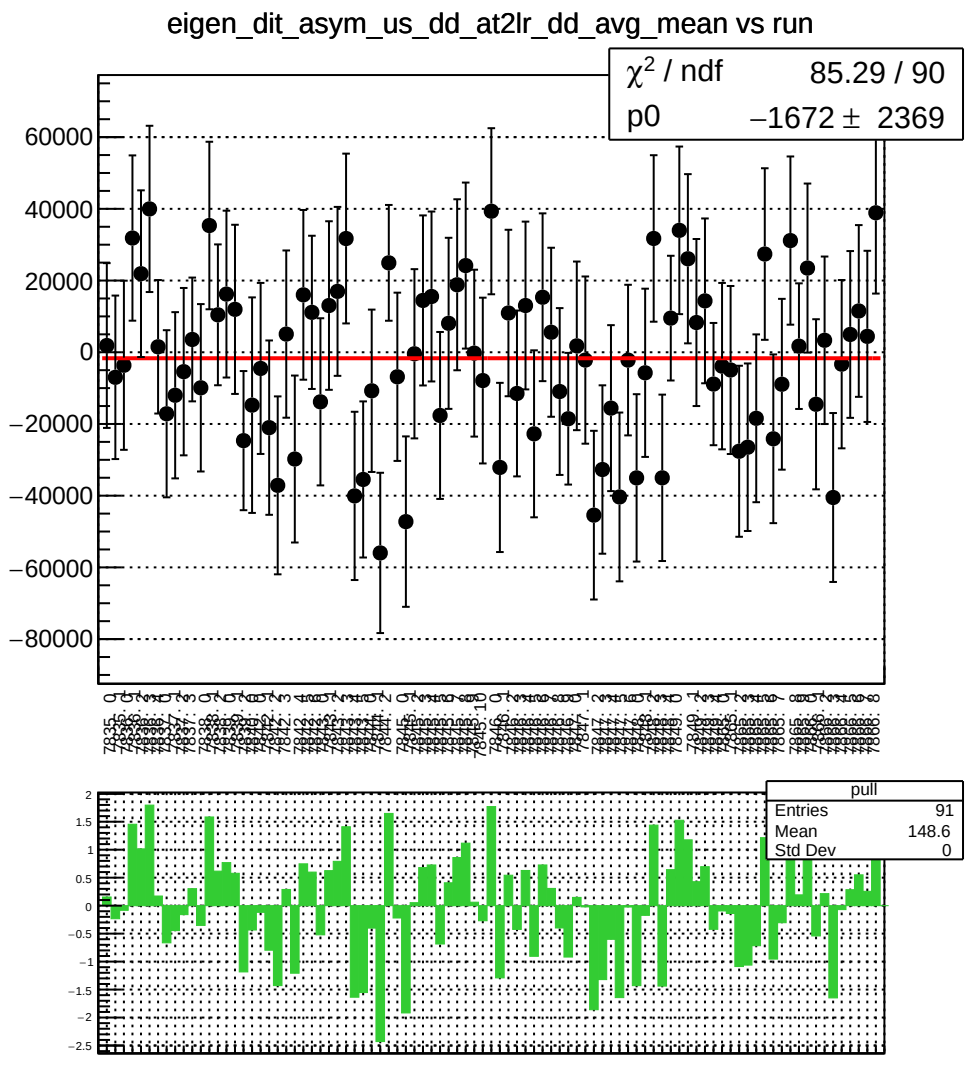

pull1D
Entries 91
Mean −0.008363
Std Dev 0.9681

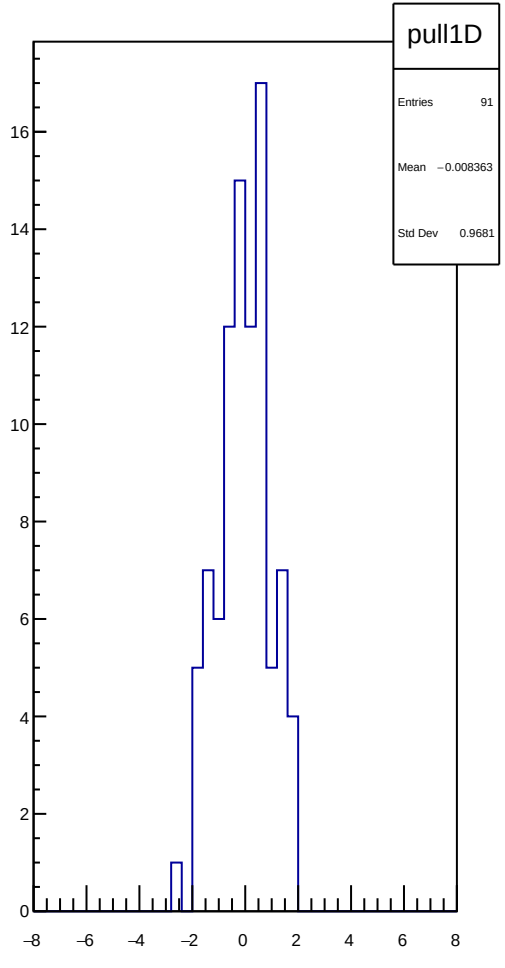

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 385.4 / 90
p0 2219 ± 1.675
2350
2300
2250
2200
2150
2100

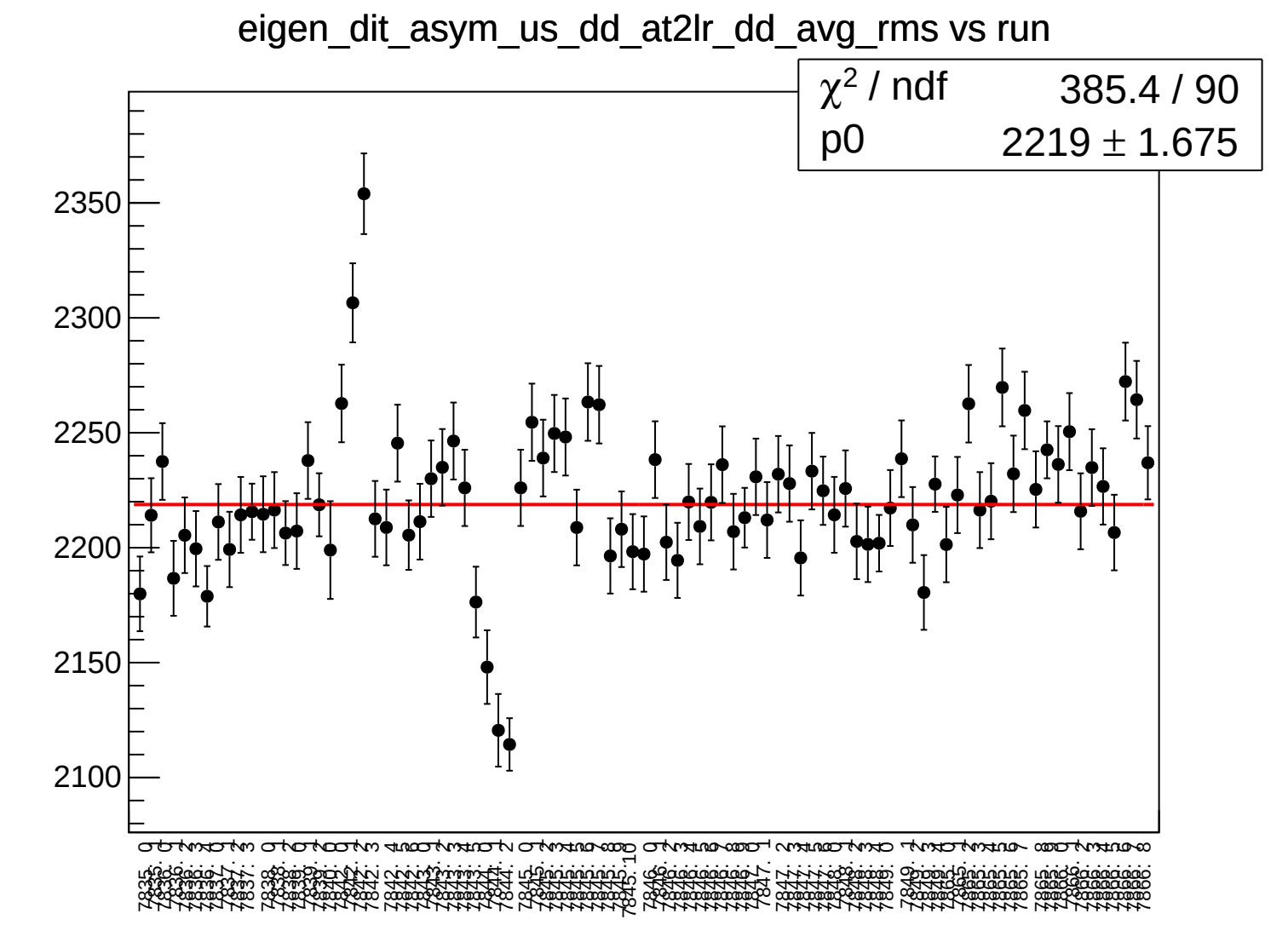

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.5 / 90
p0 1832 ± 5264
pull
Entries 91
Mean 55.77
Std Dev 0

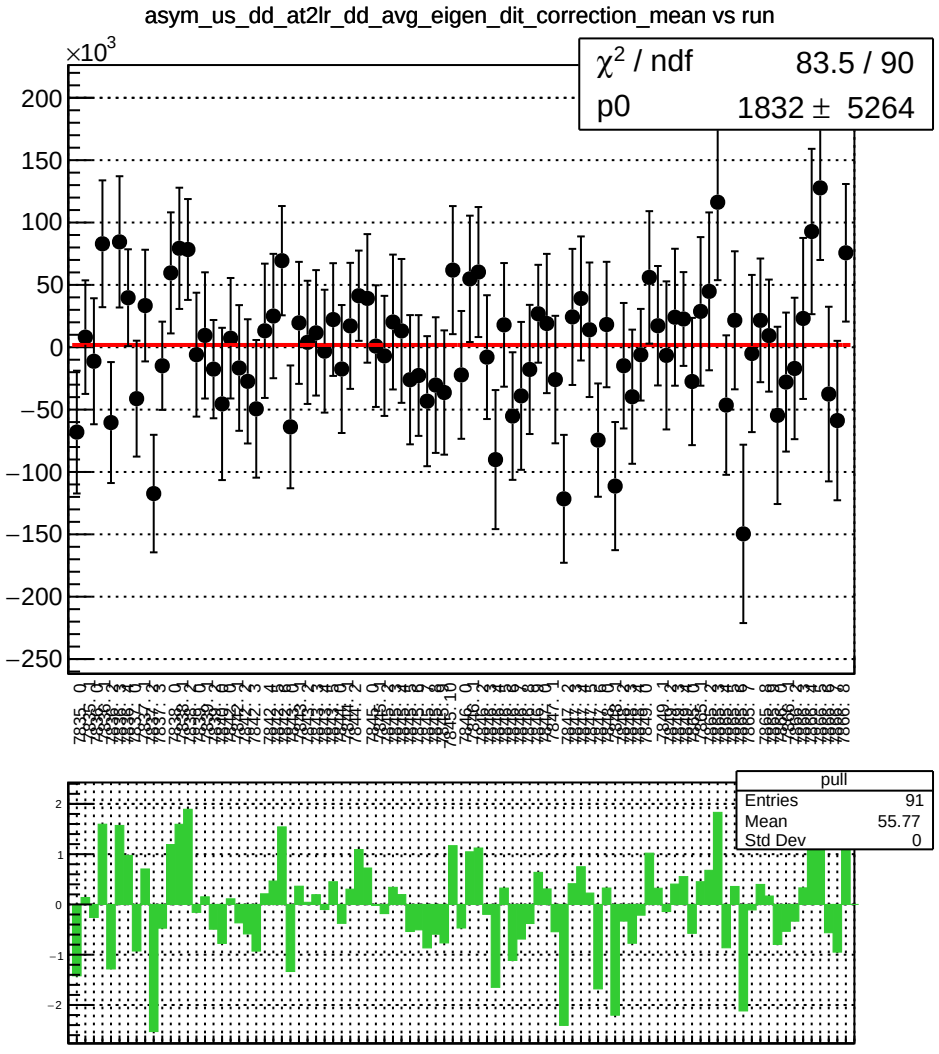

pull1D
Entries 91
Mean −0.01661
Std Dev 0.9578

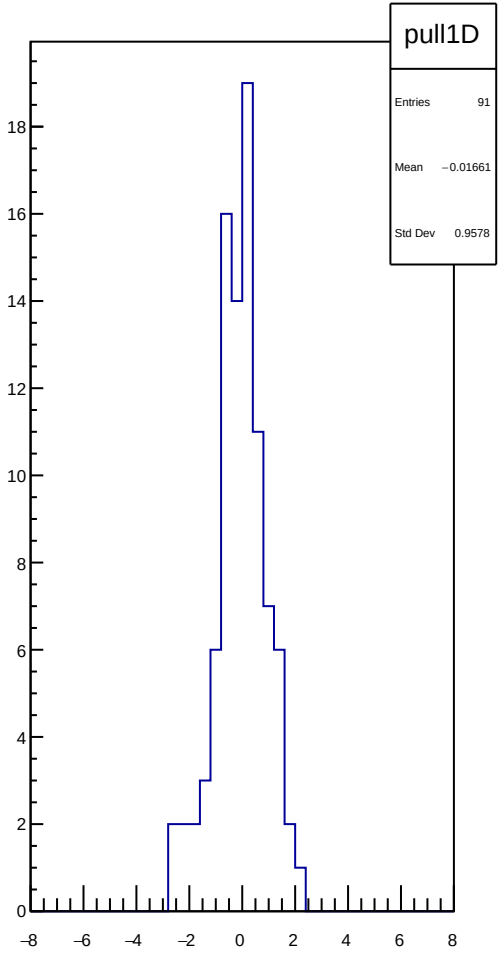

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.475e+04 / 90
p0 4911 ± 3.723
7000
6500
6000
5500
5000
4500
4000

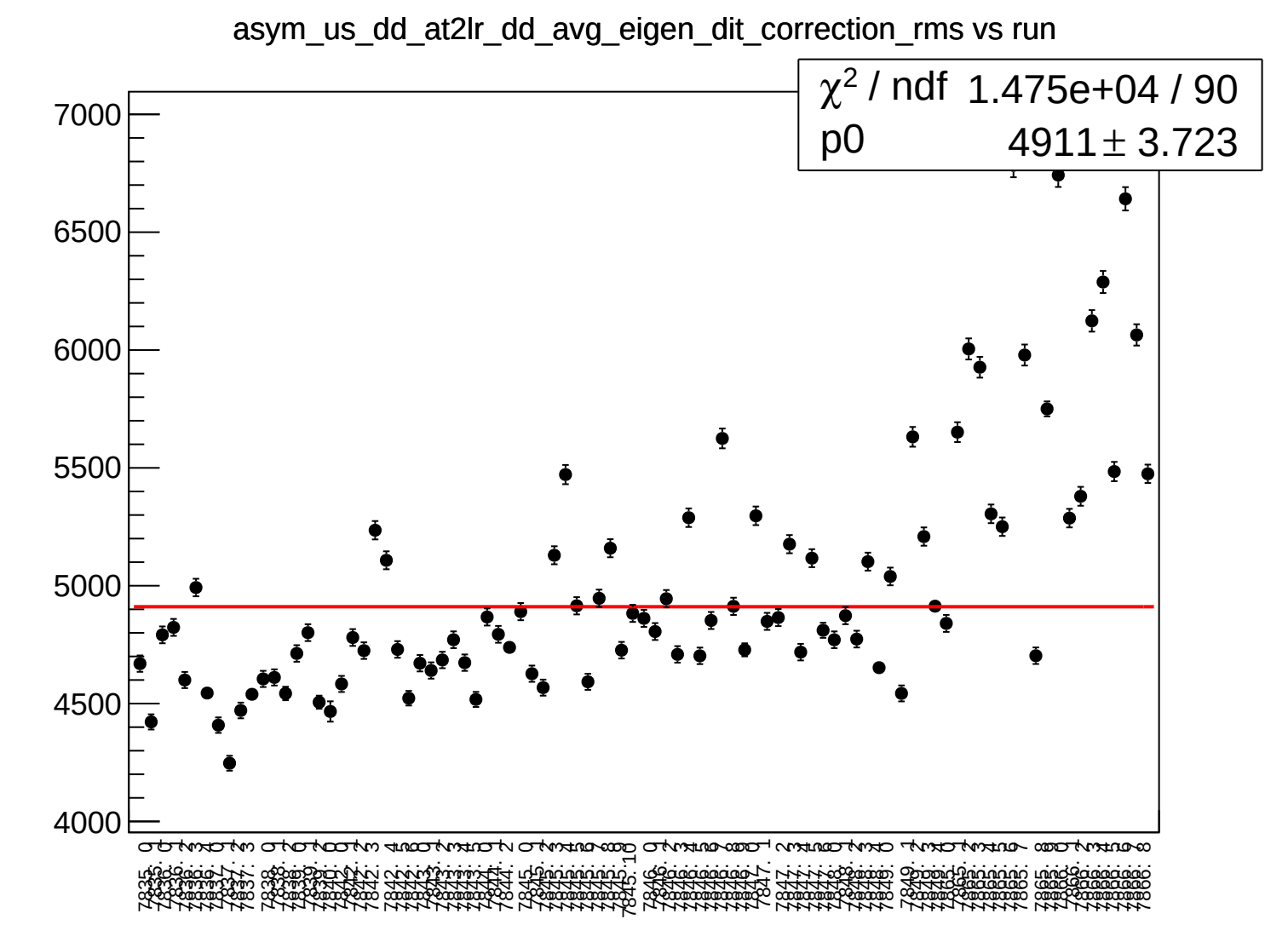

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 85.29 / 90
p0 −1672 ± 2369
pull
Entries 91
Mean 148.6
Std Dev 0

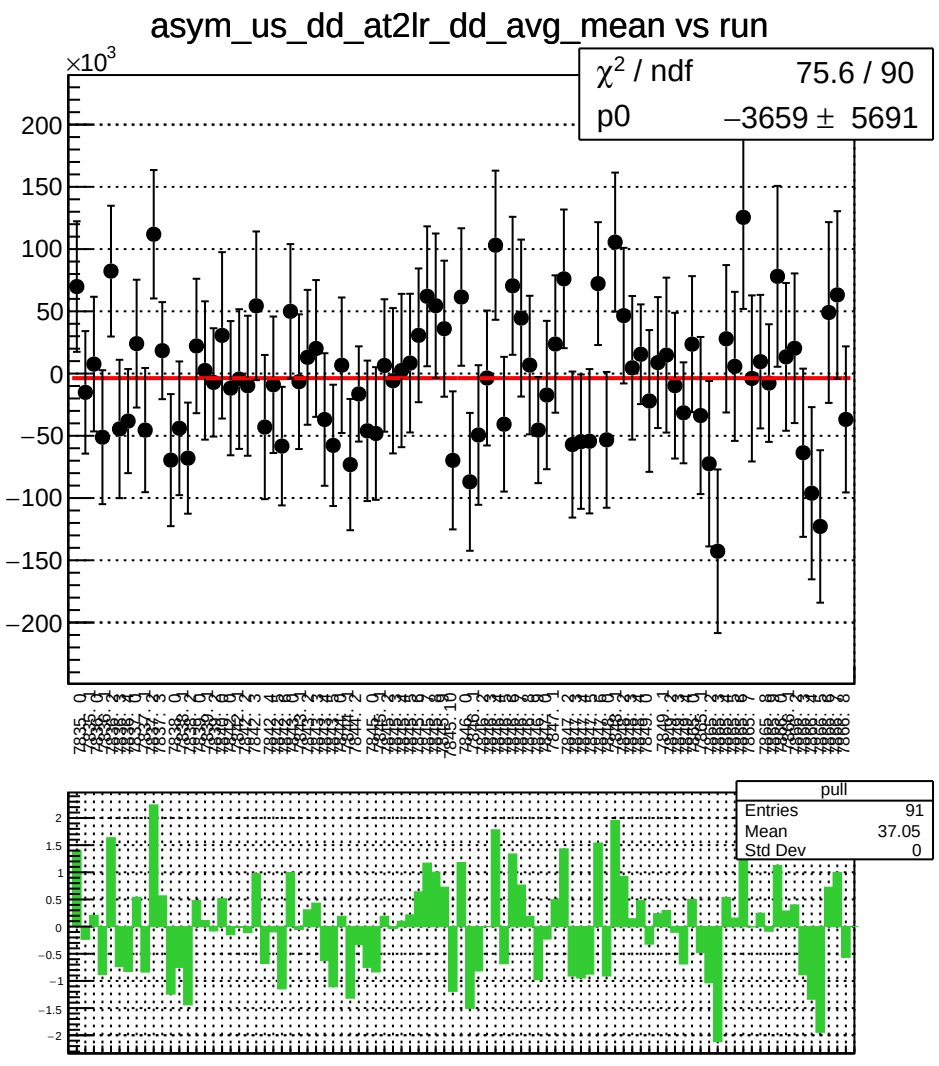

pull1D
Entries 91
Mean −0.008363
Std Dev 0.9681

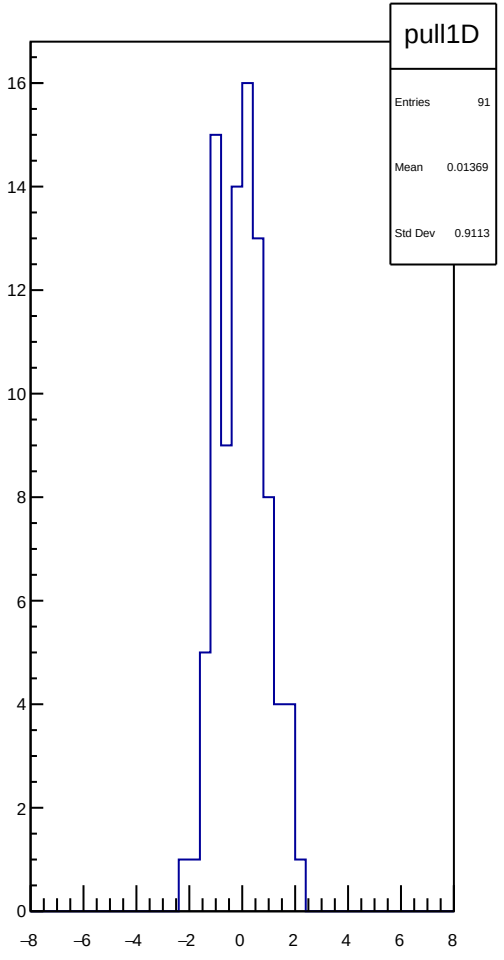

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 385.4 / 90
p0 2219 ± 1.675
2350
2300
2250
2200
2150
2100

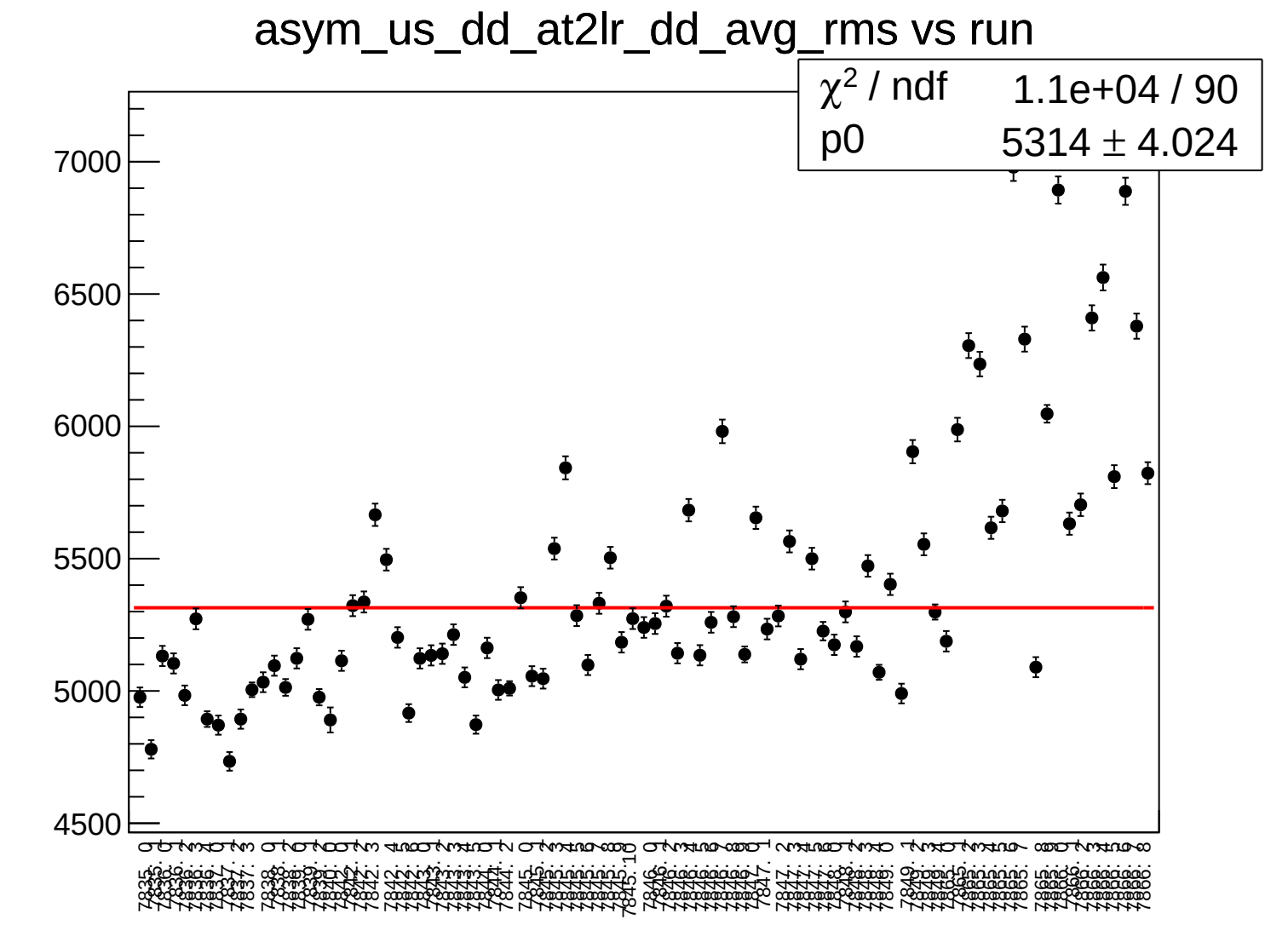

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.5 / 90
p0 1832 ± 5264
pull
Entries 91
Mean 55.77
Std Dev 0

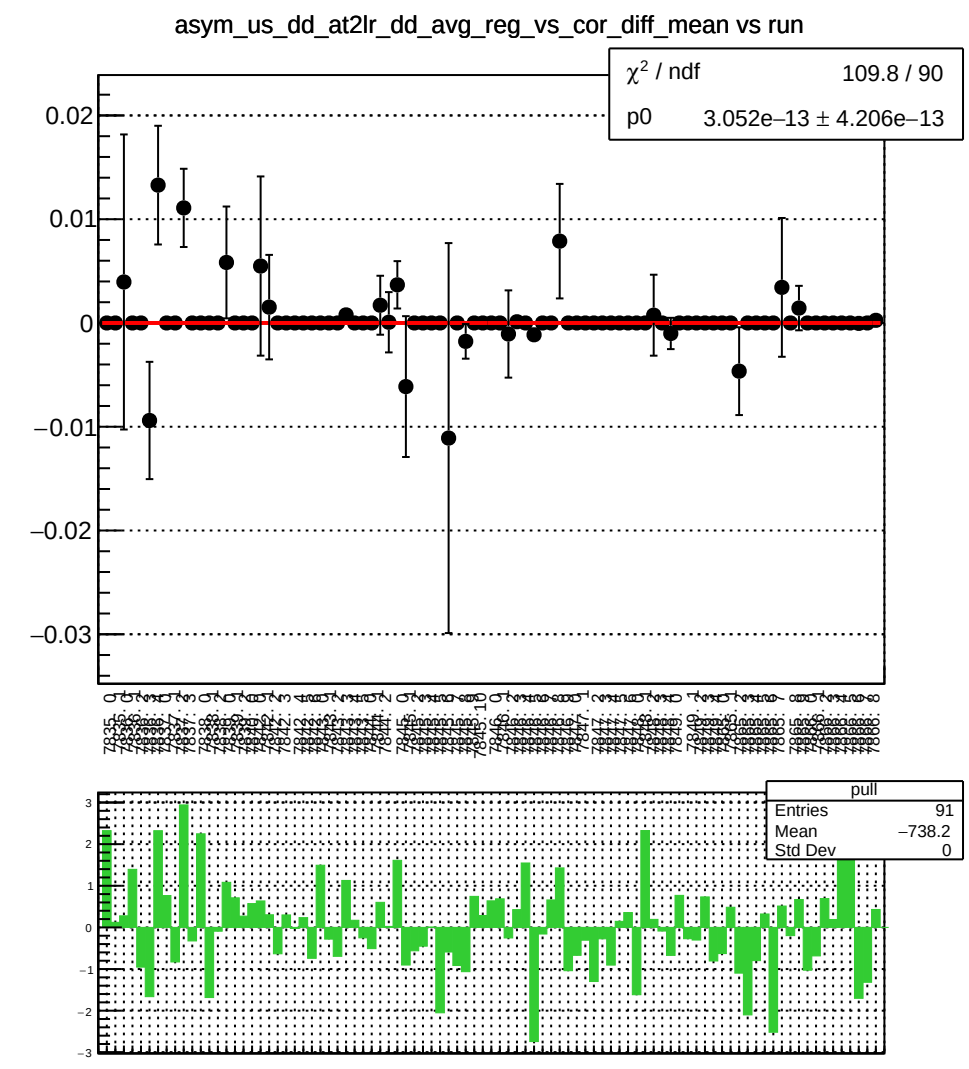

pull1D
Entries 91
Mean −0.01661
Std Dev 0.9578

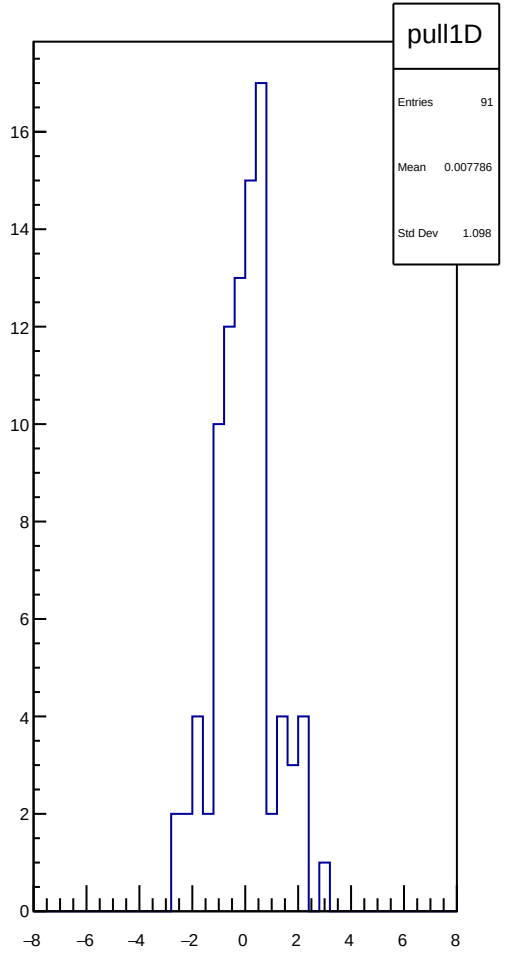

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.475e+04 / 90
p0 4911 ± 3.723
7000
6500
6000
5500
5000
4500
4000

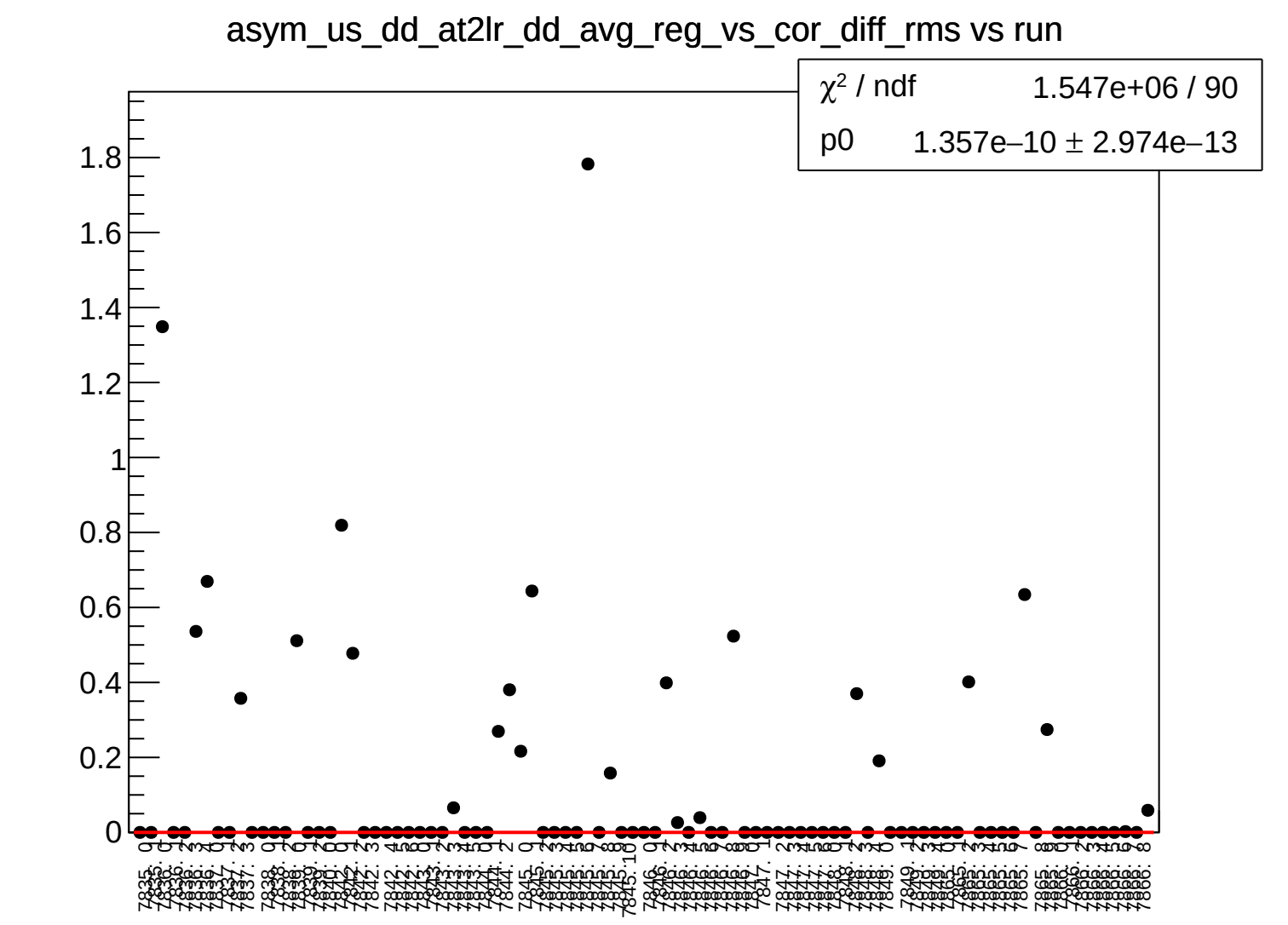

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 75.6 / 90
p0 −3659 ± 5691
×10³
pull
Entries 91
Mean 37.05
Std Dev 0

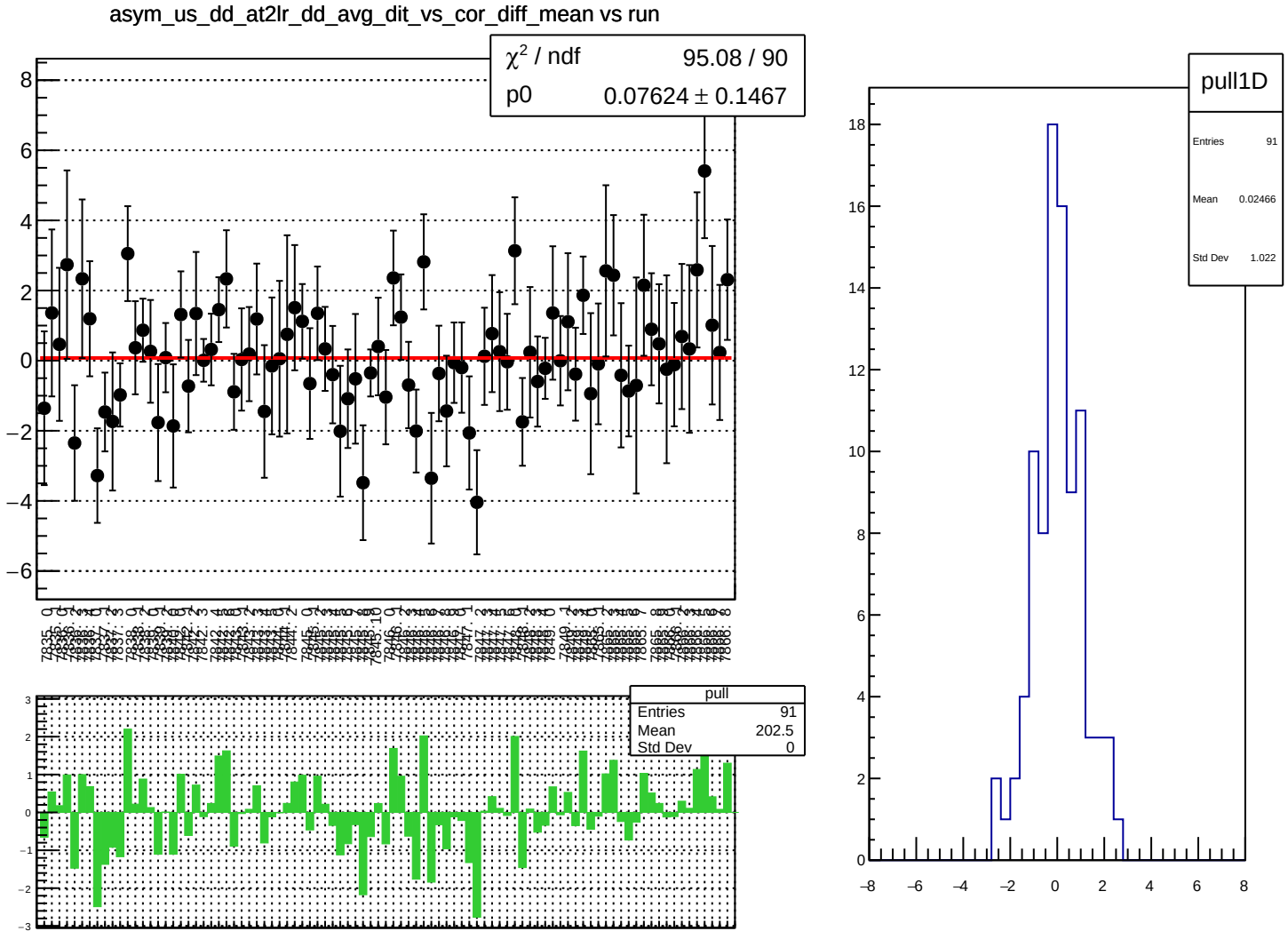

pull1D
Entries 91
Mean 0.01369
Std Dev 0.9113

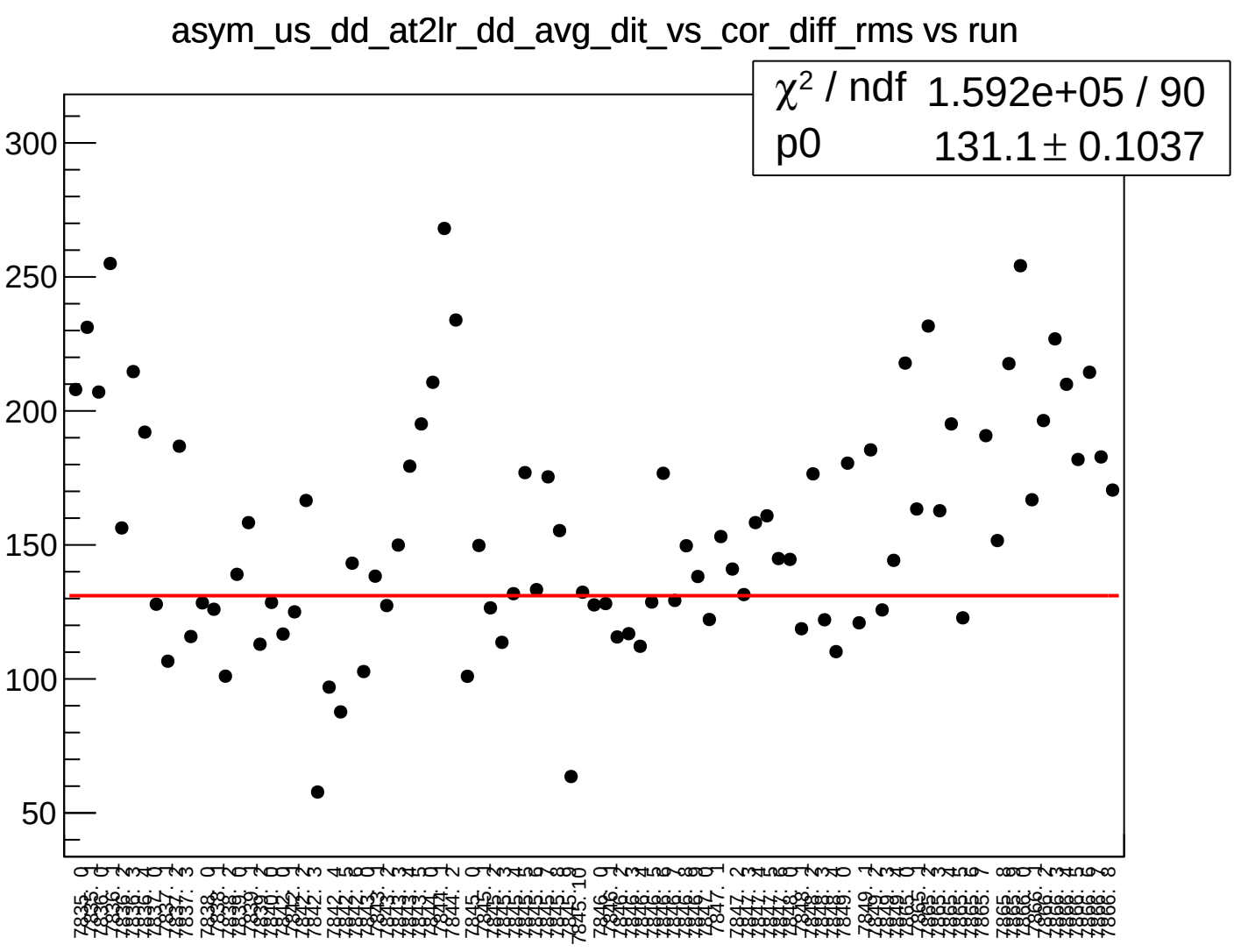

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.1e+04 / 90
p0 5314 ± 4.024
7000
6500
6000
5500
5000
4500

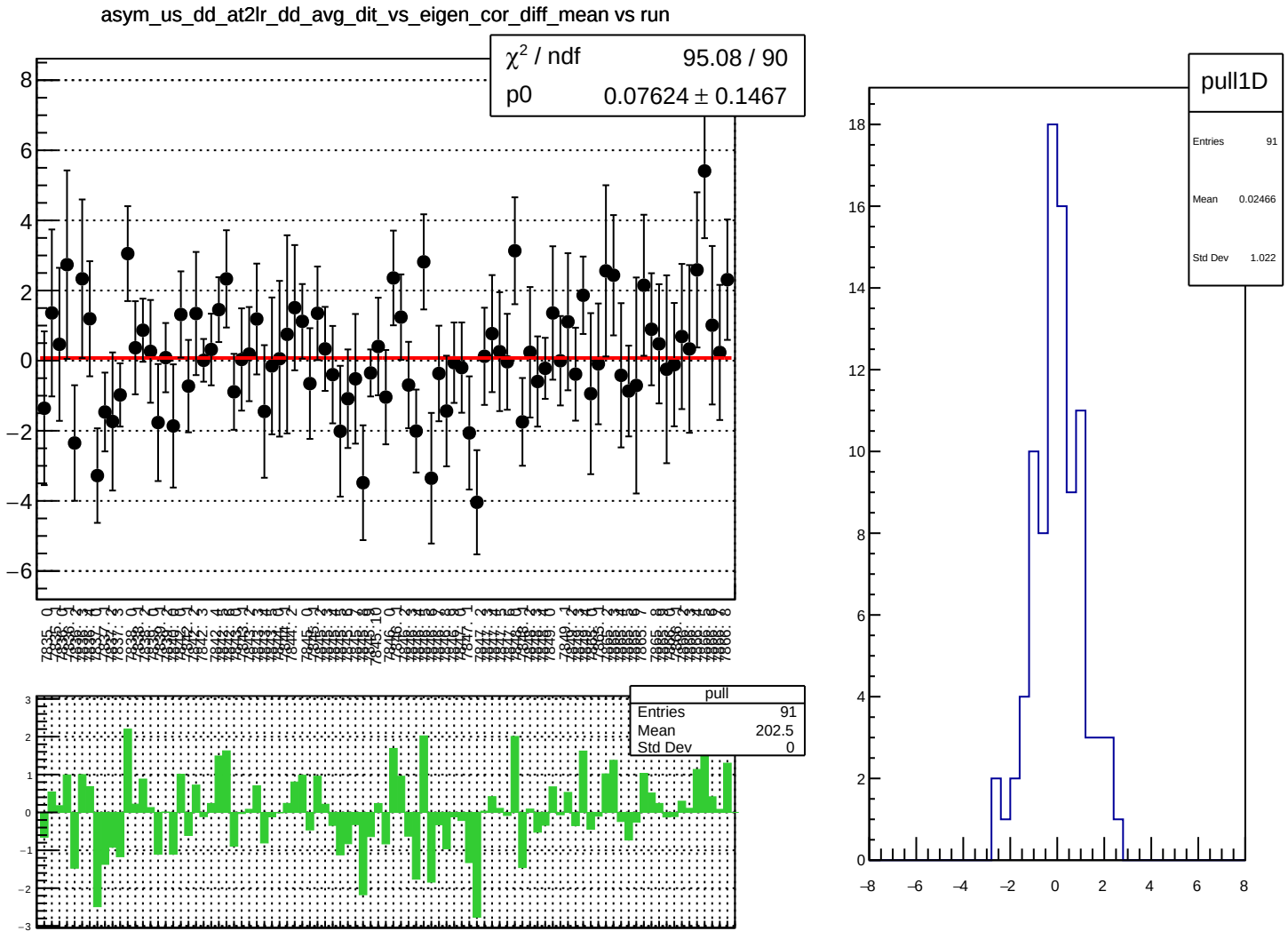

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 90
p0 3.052e−13 ± 4.206e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean −738.2
Std Dev 0
3
2
1
0
−1
−2
−3

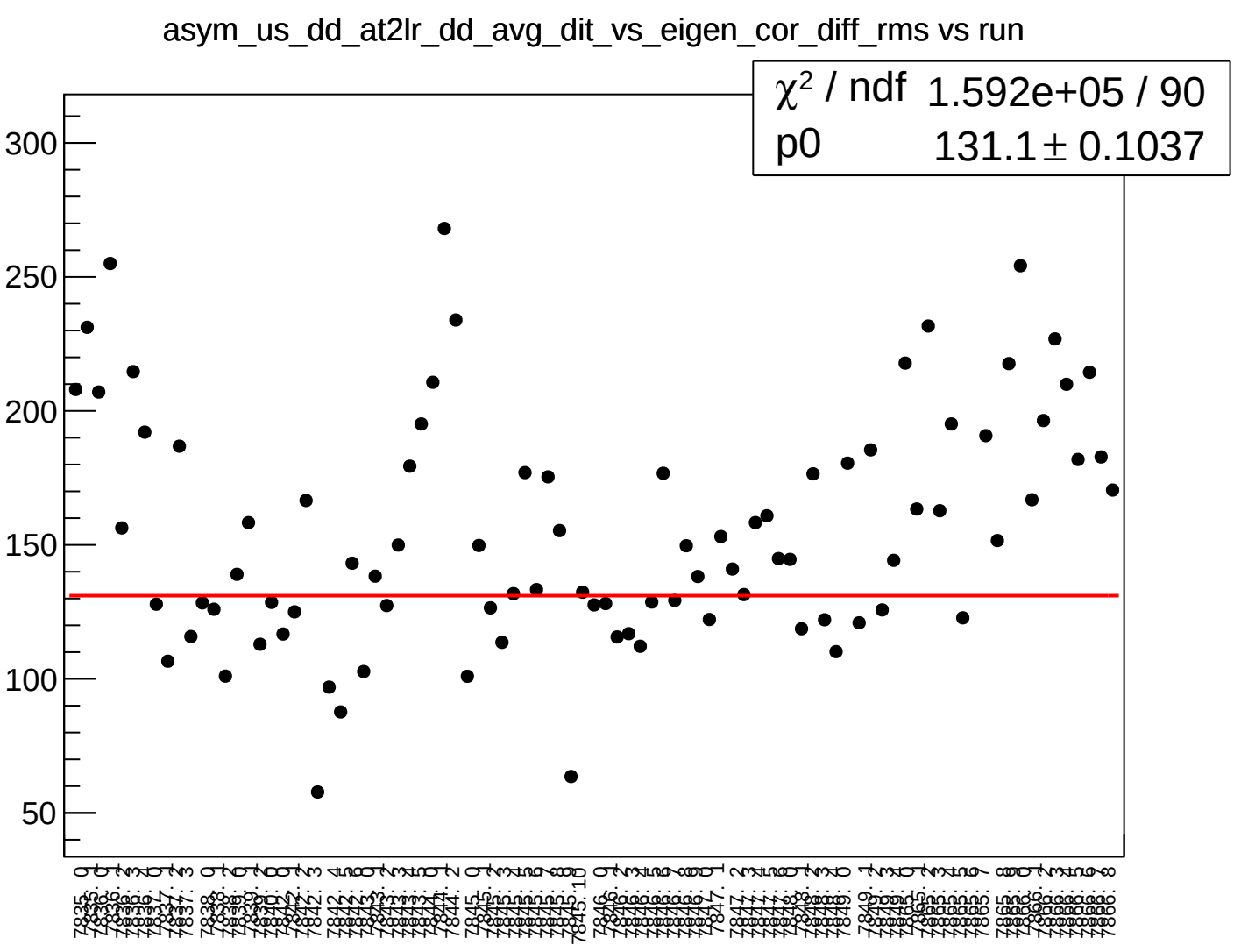

pull1D
Entries 91
Mean 0.007786
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

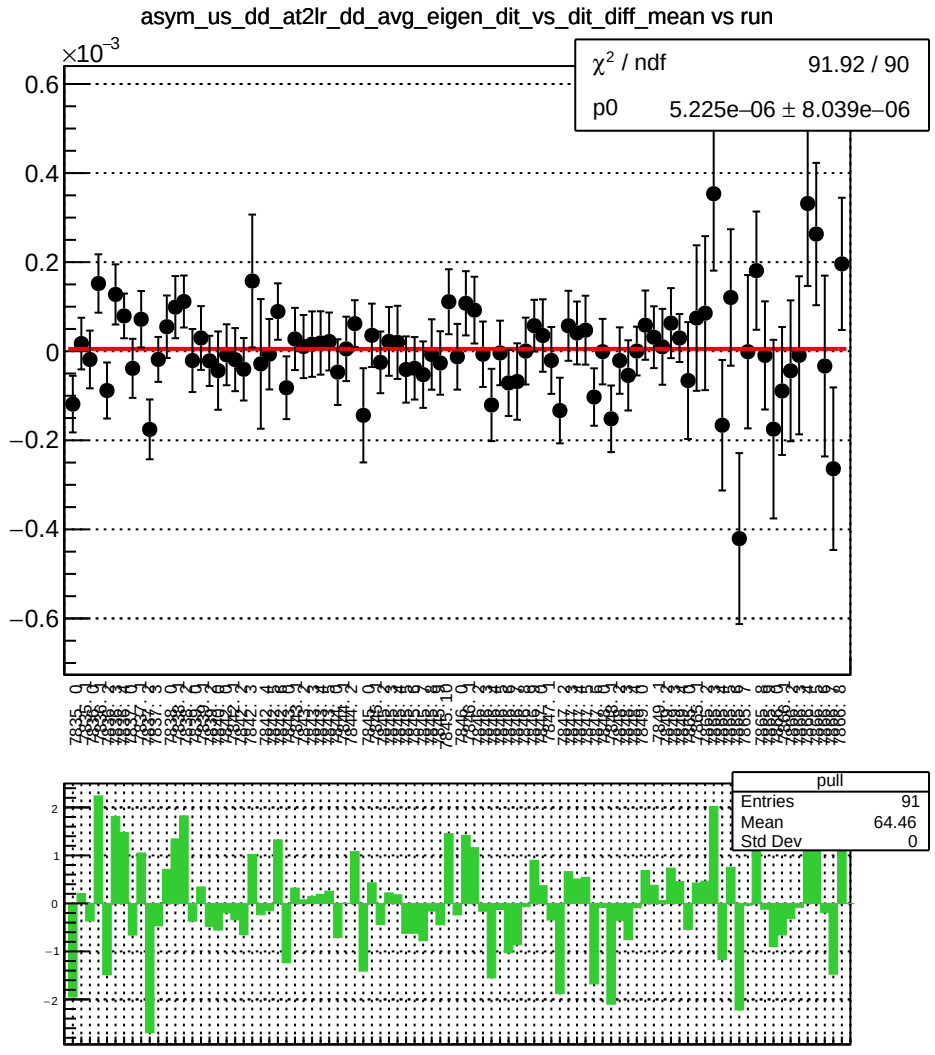

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.547e+06 / 90
p0 1.357e−10 ± 2.974e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

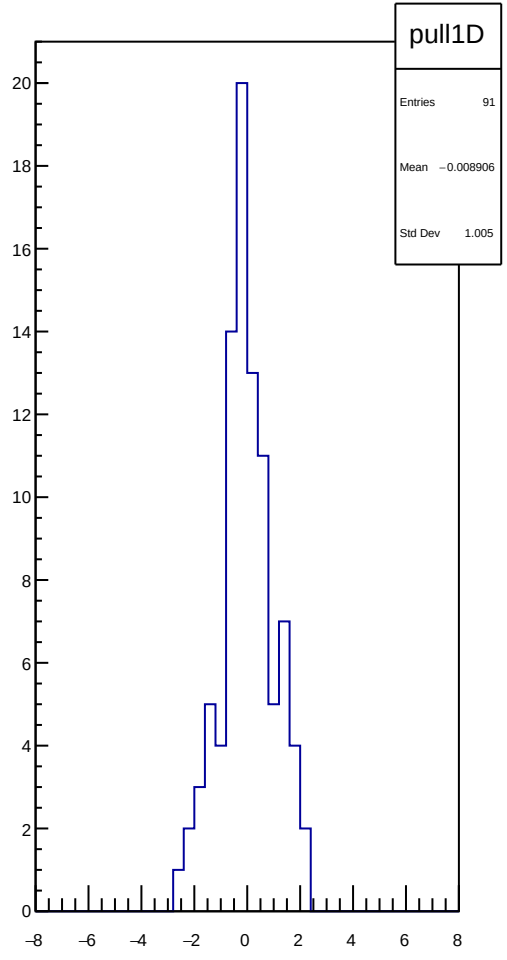

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.08 / 90
p0 0.07624 ± 0.1467
pull
Entries 91
Mean 202.5
Std Dev 0
pull1D
Entries 91
Mean 0.02466
Std Dev 1.022

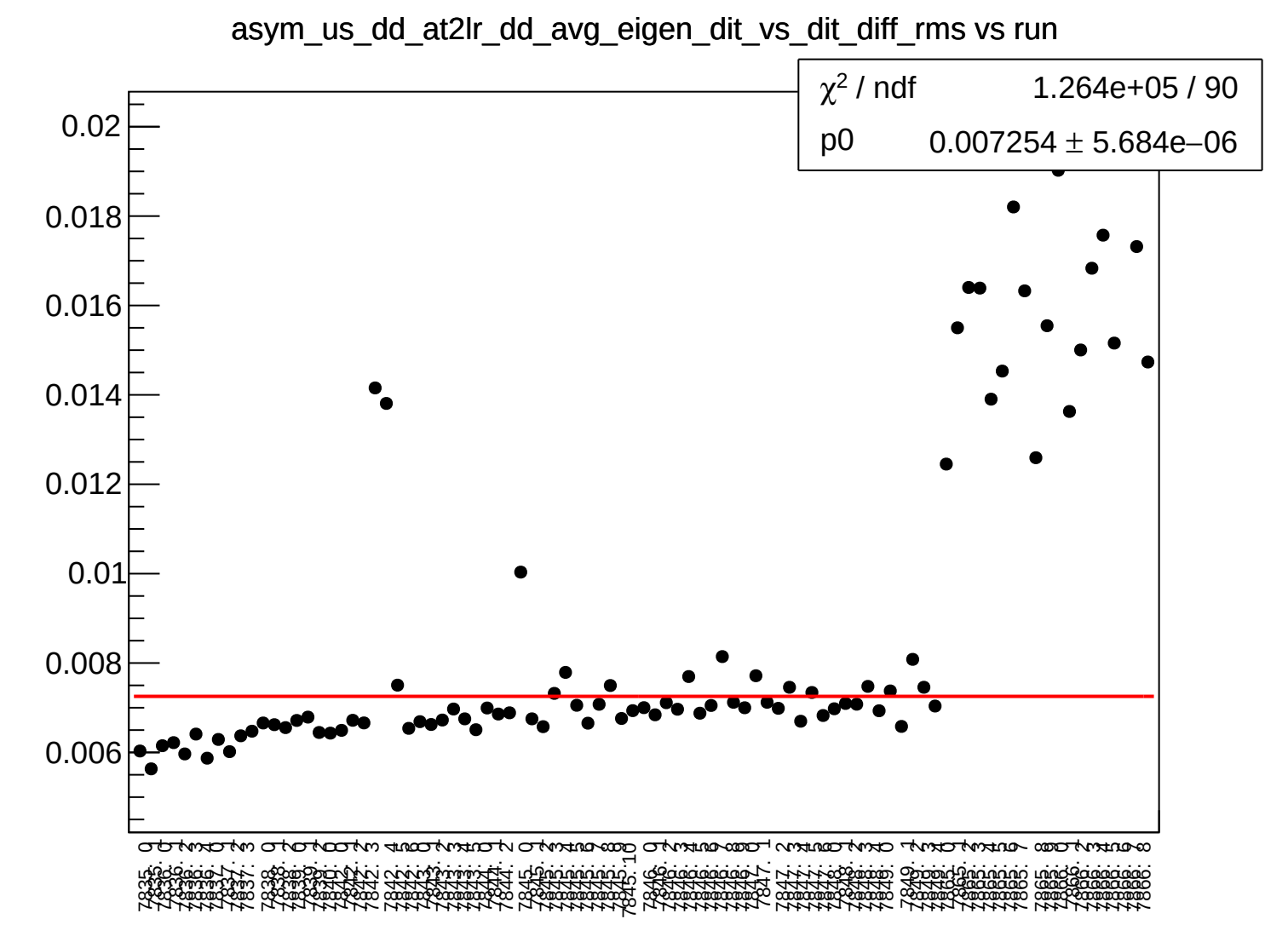

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.592e+05 / 90
p0 131.1 ± 0.1037
300
250
200
150
100
50

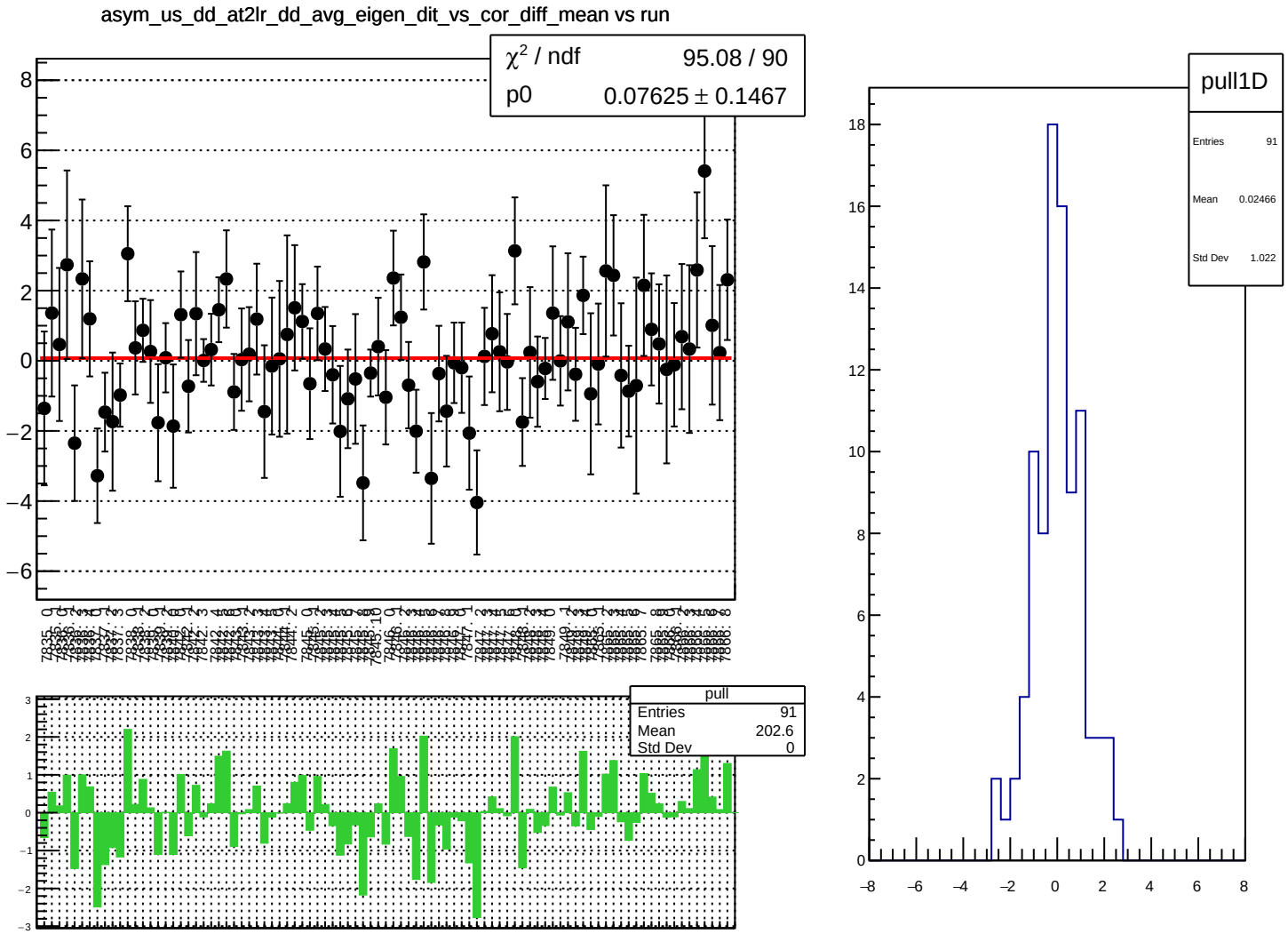

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.08 / 90
p0 0.07624 ± 0.1467
pull
Entries 91
Mean 202.5
Std Dev 0
pull1D
Entries 91
Mean 0.02466
Std Dev 1.022

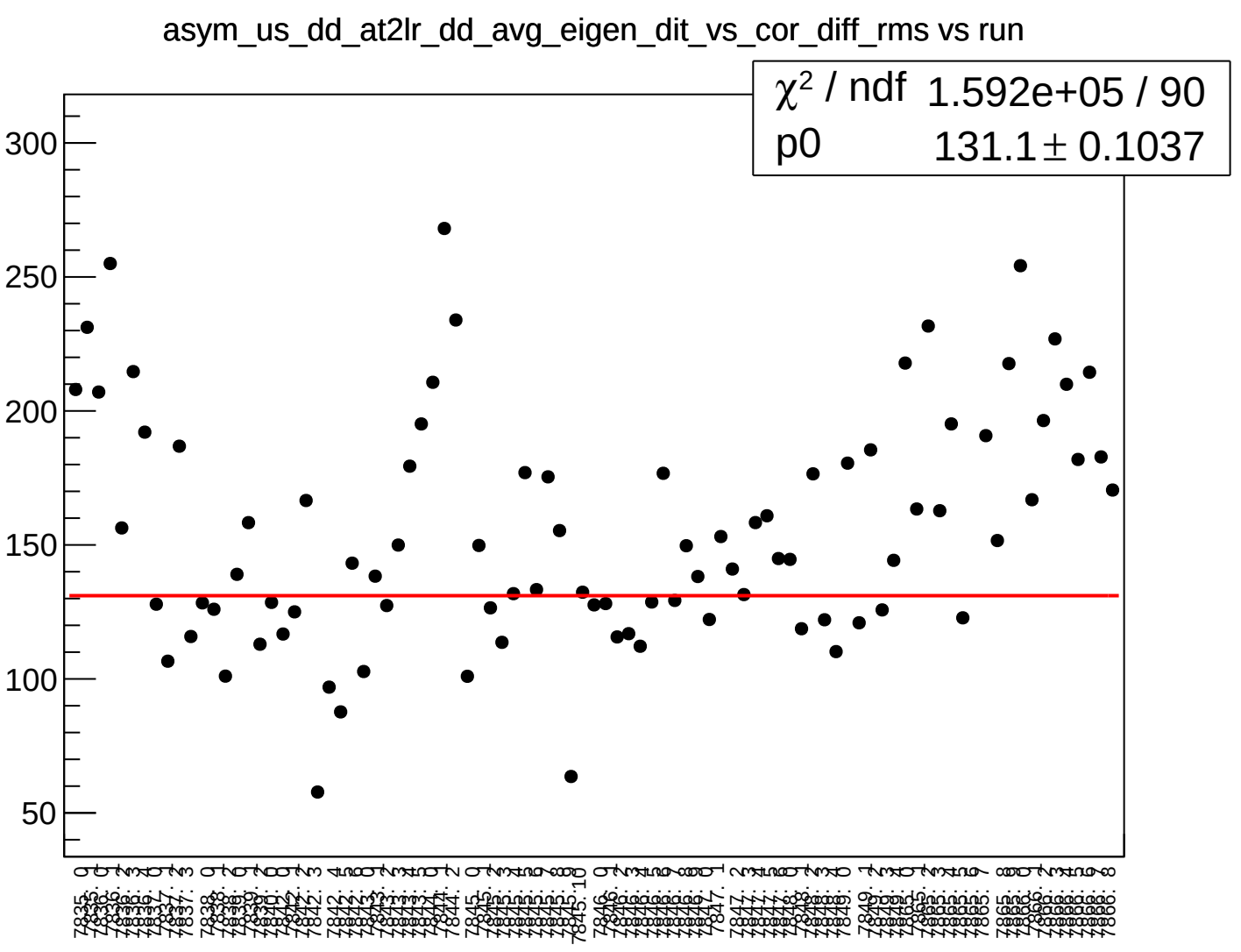

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.592e+05 / 90
p0 131.1 ± 0.1037
300
250
200
150
100
50

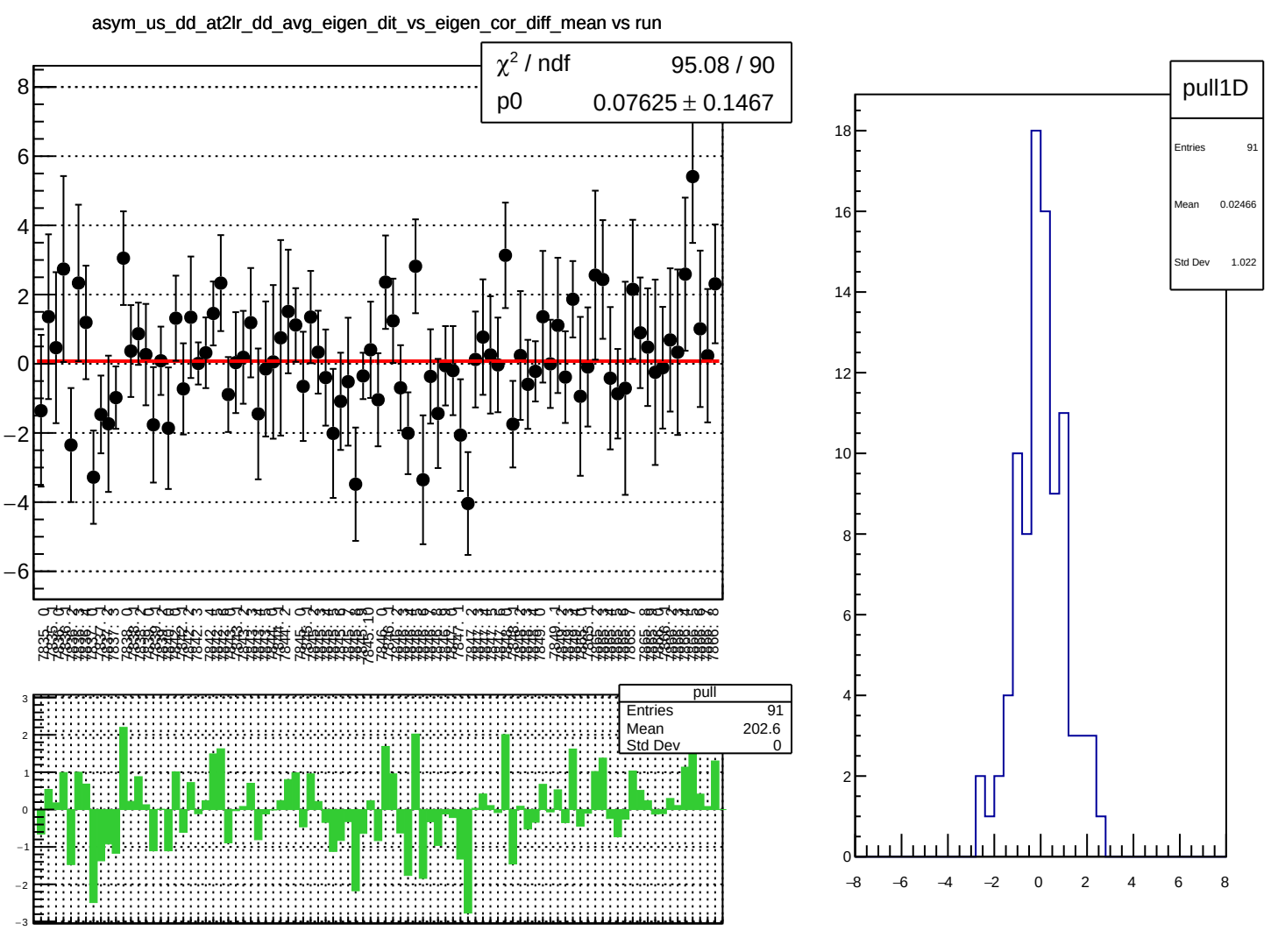

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.92 / 90
p0 5.225e−06 ± 8.039e−06
pull
Entries 91
Mean 64.46
Std Dev 0

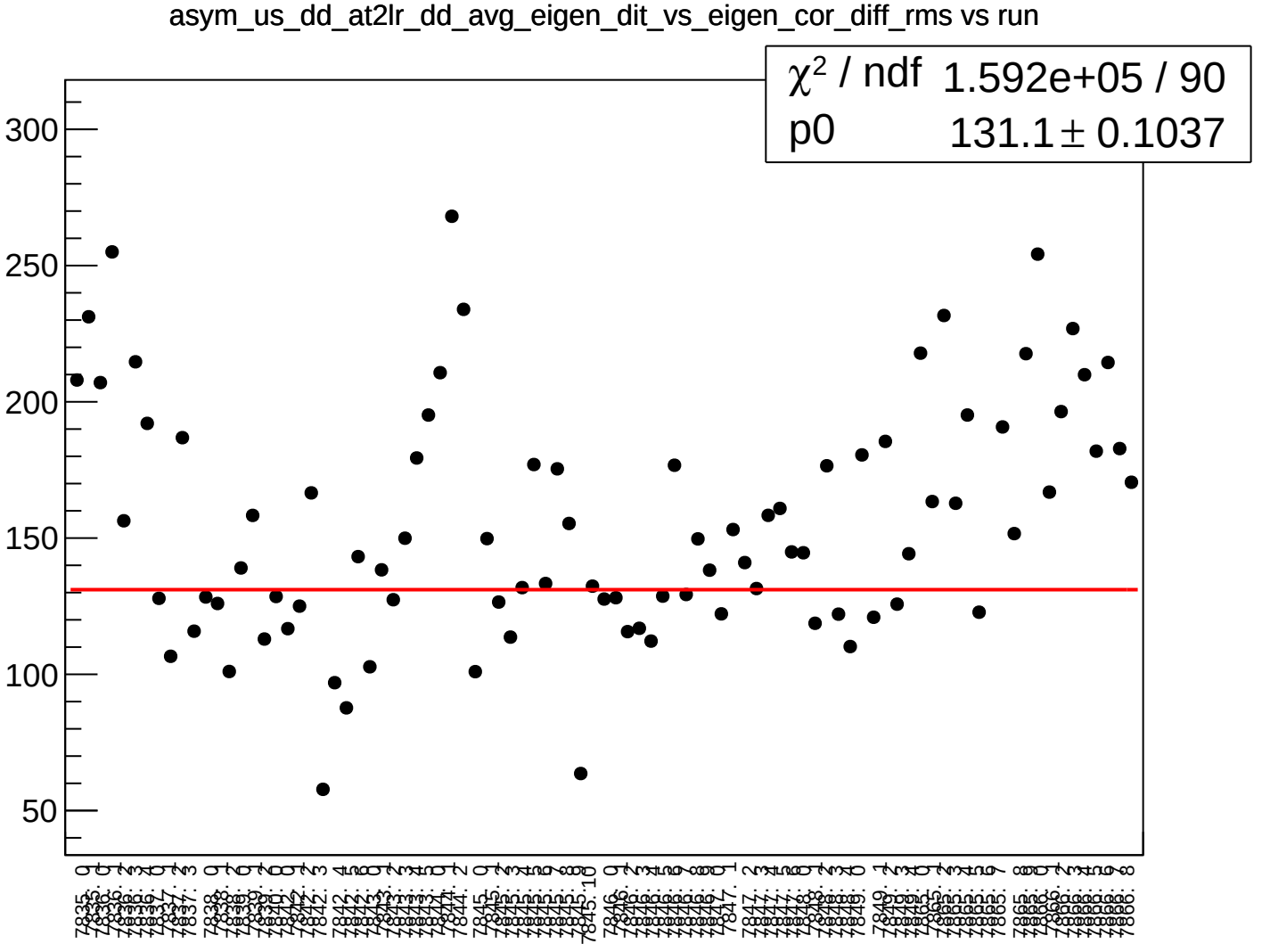

pull1D
Entries 91
Mean −0.008906
Std Dev 1.005

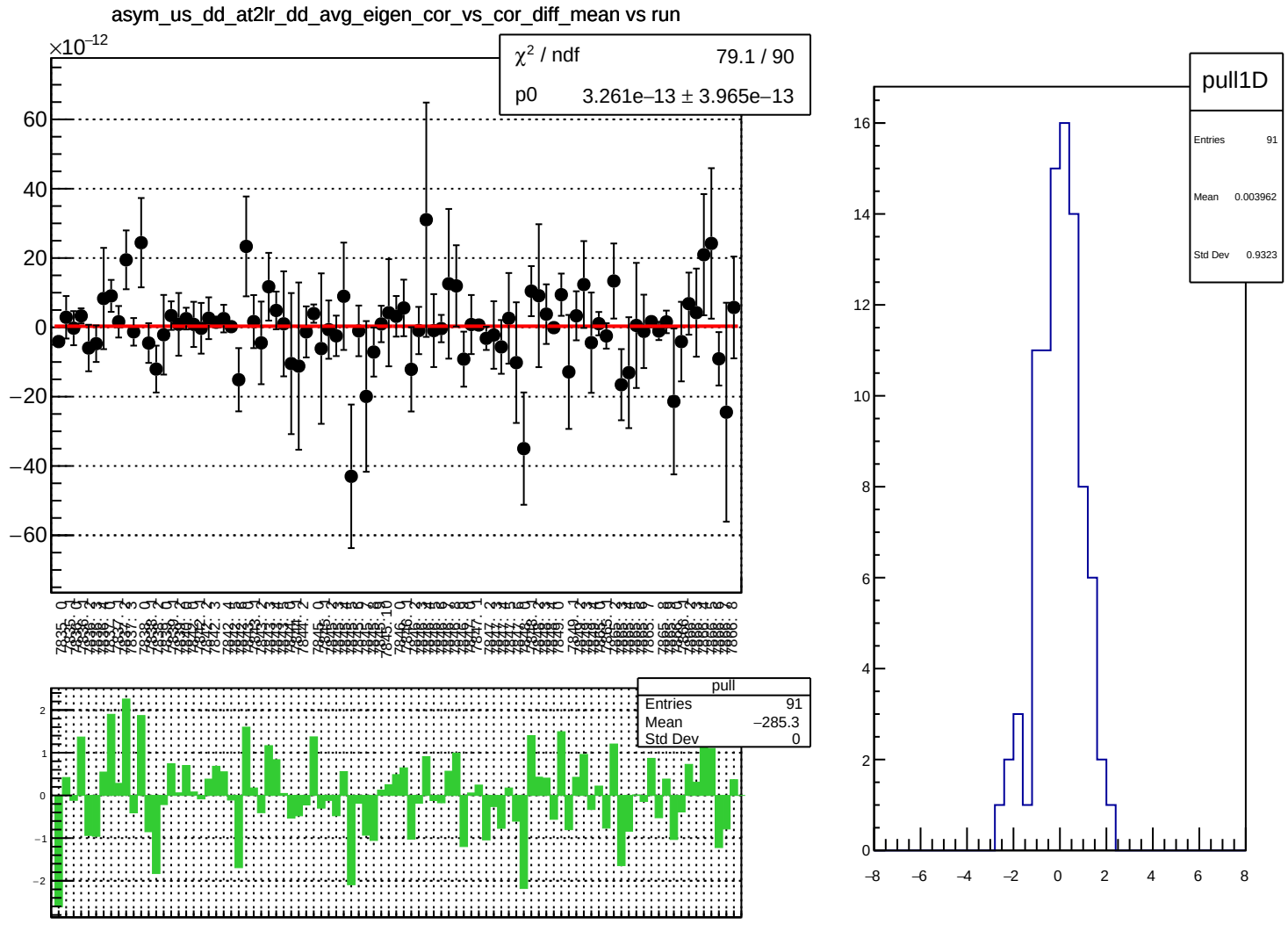

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.264e+05 / 90
p0 0.007254 ± 5.684e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

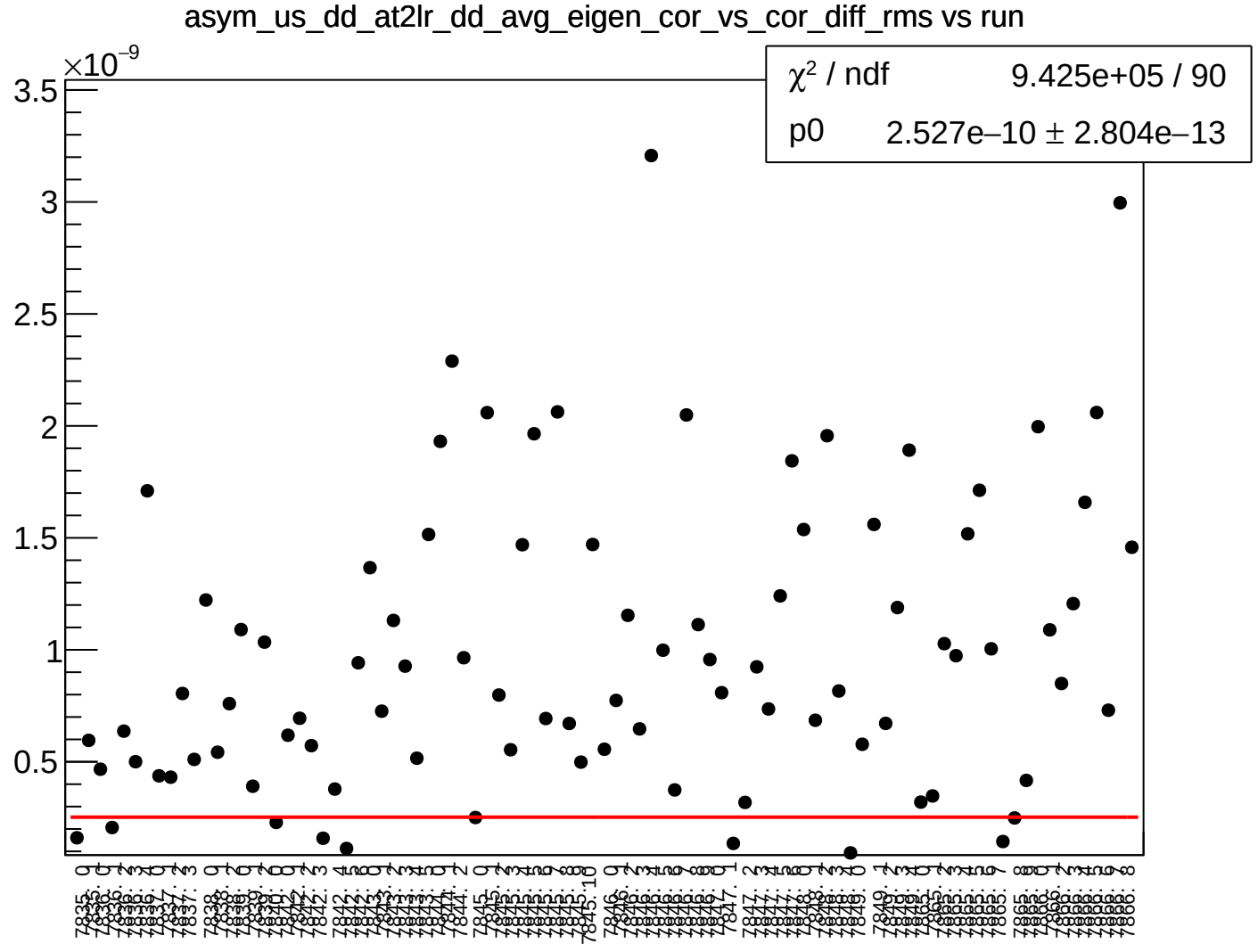

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.08 / 90
p0 0.07625 ± 0.1467
pull
Entries 91
Mean 202.6
Std Dev 0
pull1D
Entries 91
Mean 0.02466
Std Dev 1.022

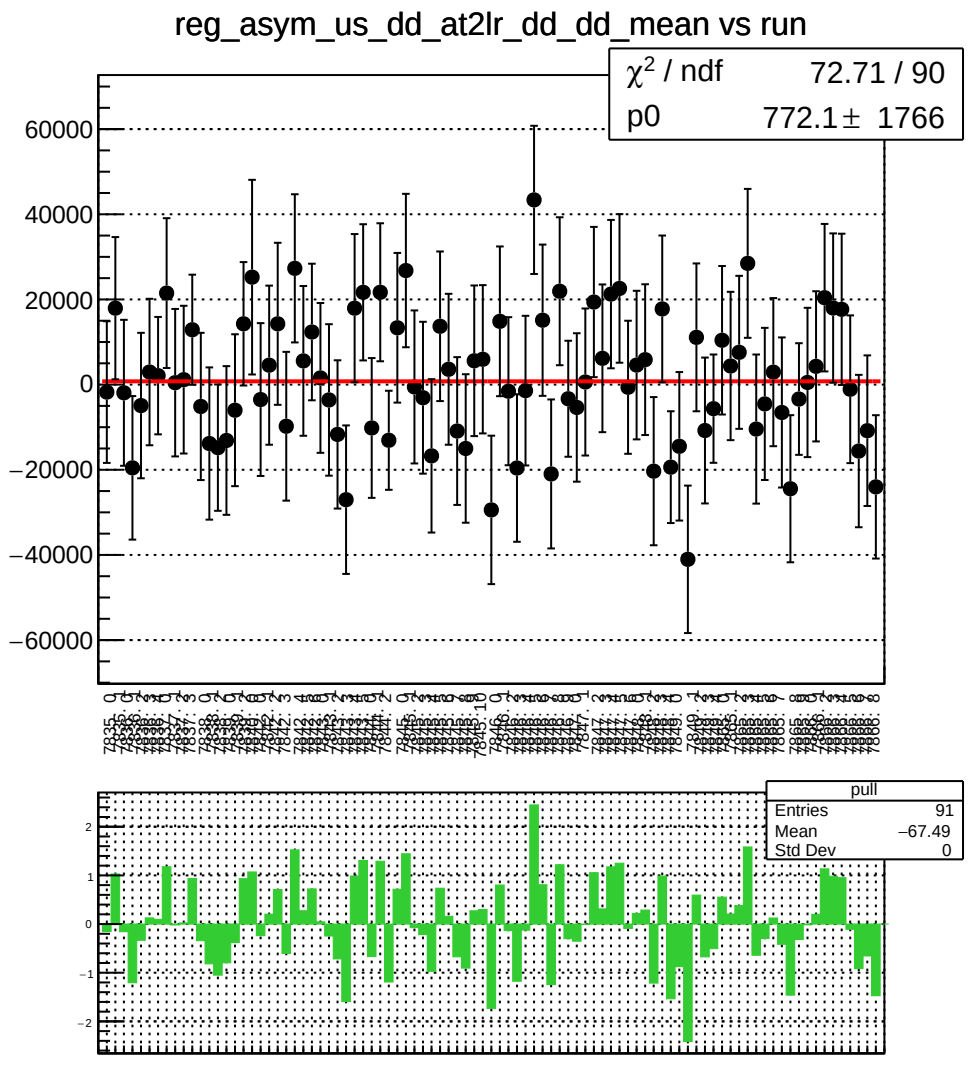

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.592e+05 / 90
p0 131.1 ± 0.1037
300
250
200
150
100
50

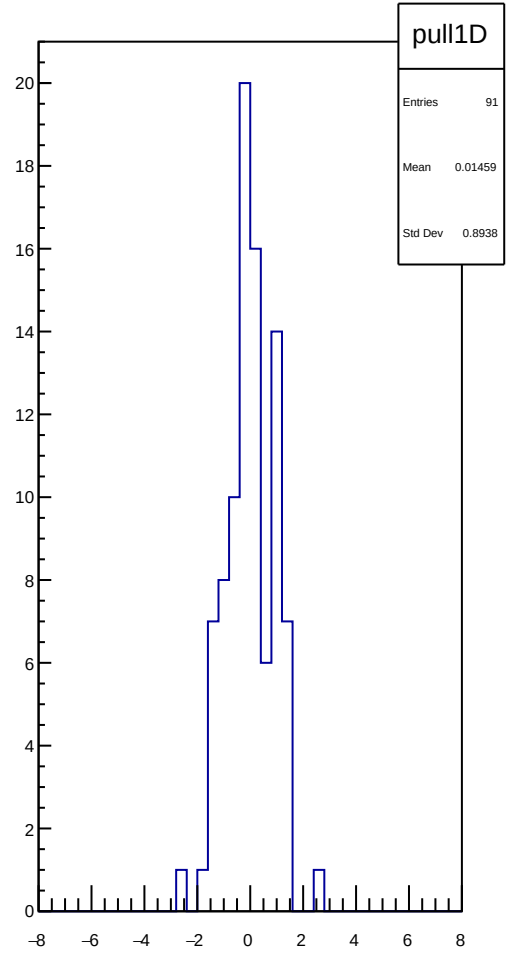

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.08 / 90
p0 0.07625 ± 0.1467
pull
Entries 91
Mean 202.6
Std Dev 0
pull1D
Entries 91
Mean 0.02466
Std Dev 1.022

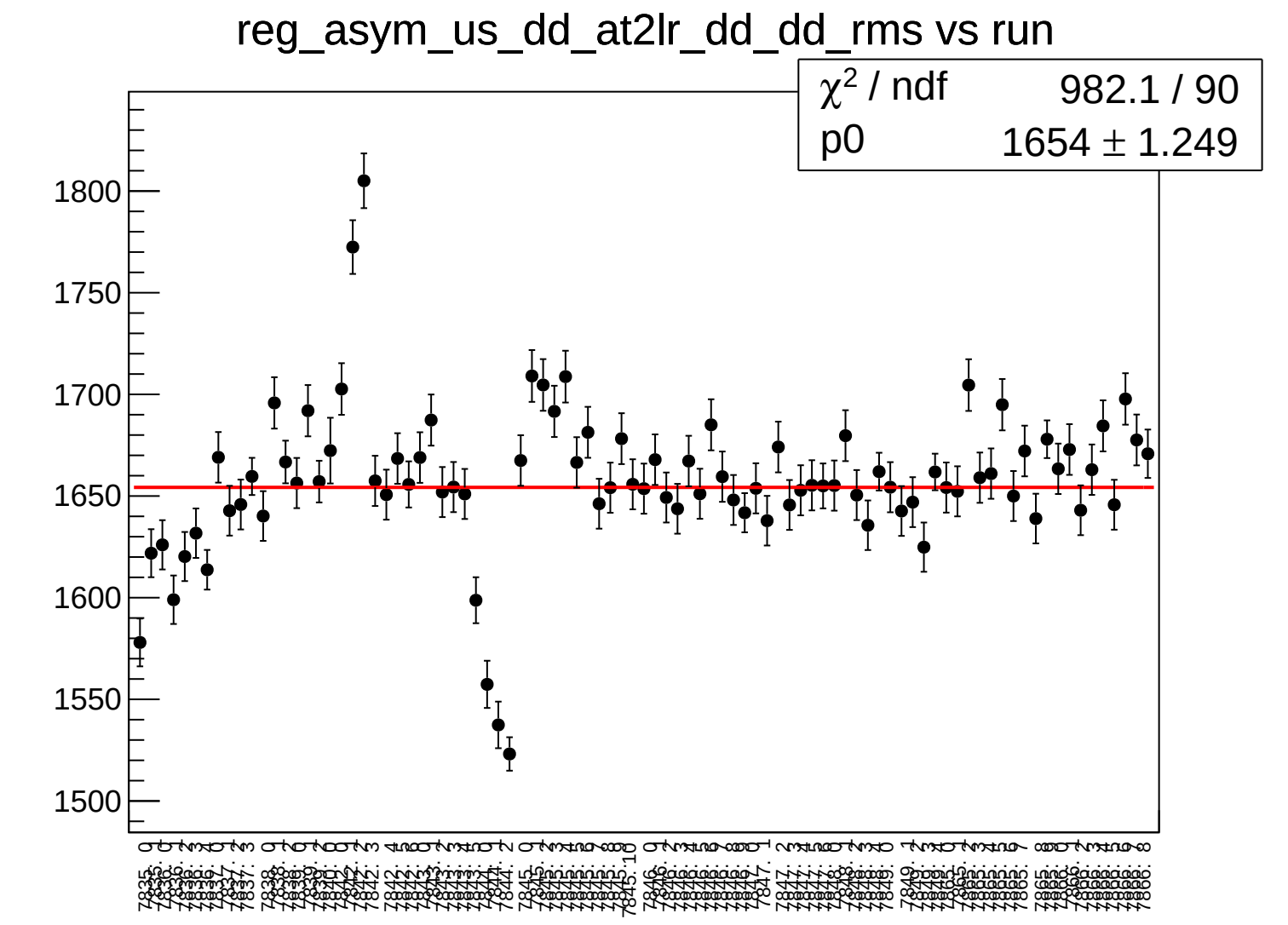

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.592e+05 / 90
p0 131.1 ± 0.1037
300
250
200
150
100
50

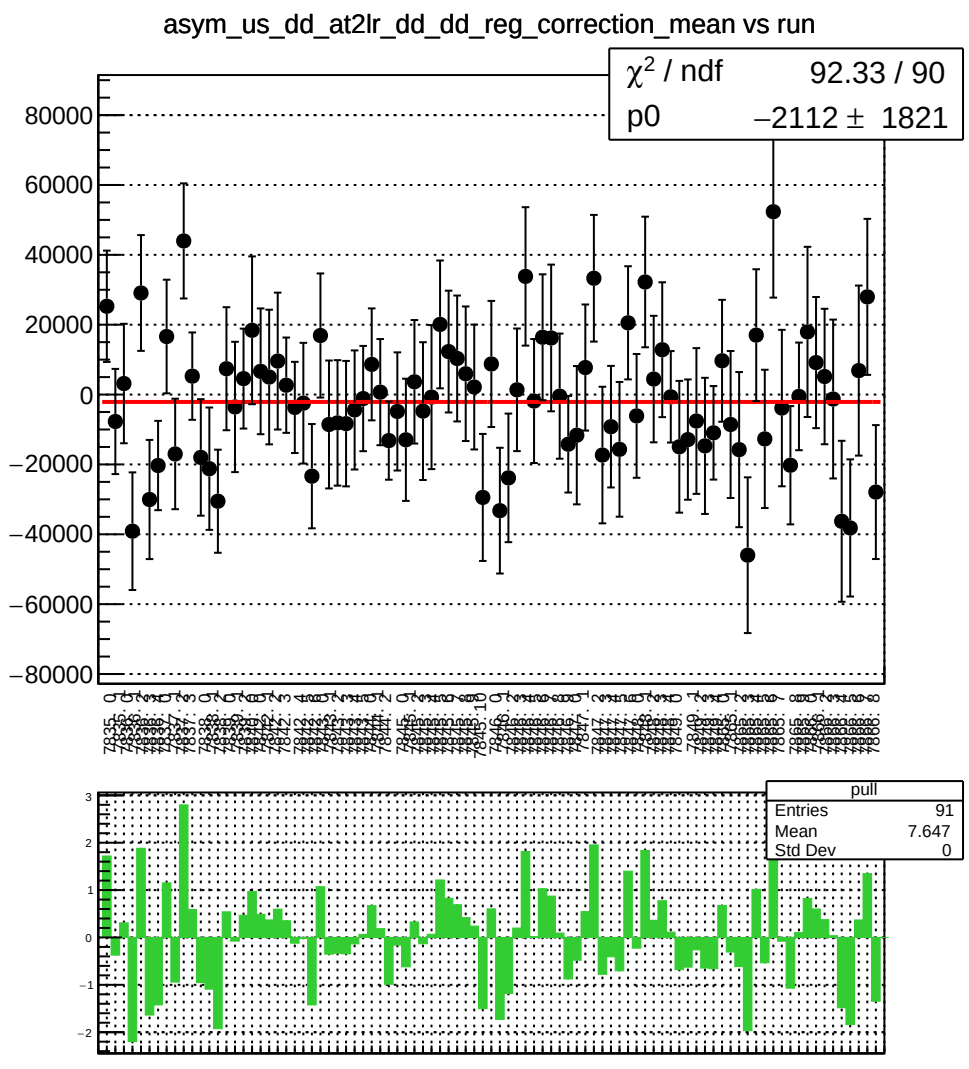

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.1 / 90
p0 3.261e−13 ± 3.965e−13
pull
Entries 91
Mean −285.3
Std Dev 0
pull1D
Entries 91
Mean 0.003962
Std Dev 0.9323

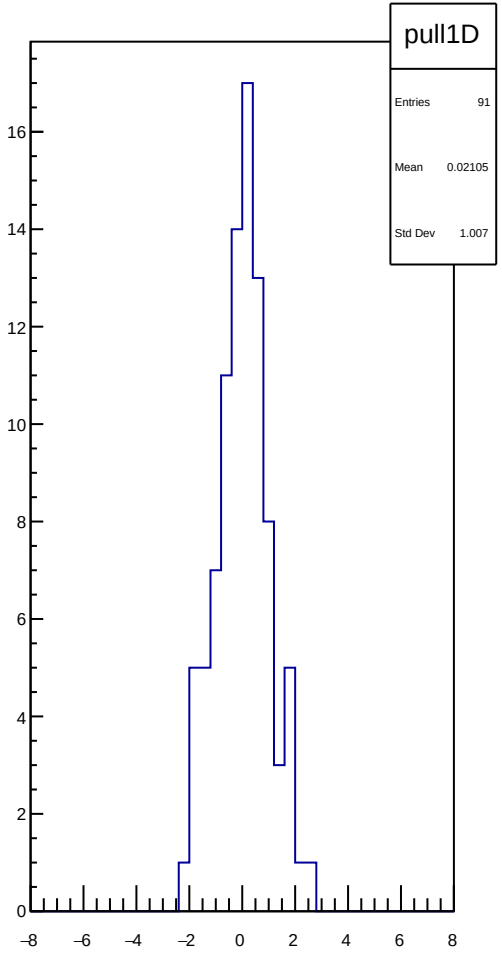

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 9.425e+05 / 90
p0 2.527e−10 ± 2.804e−13

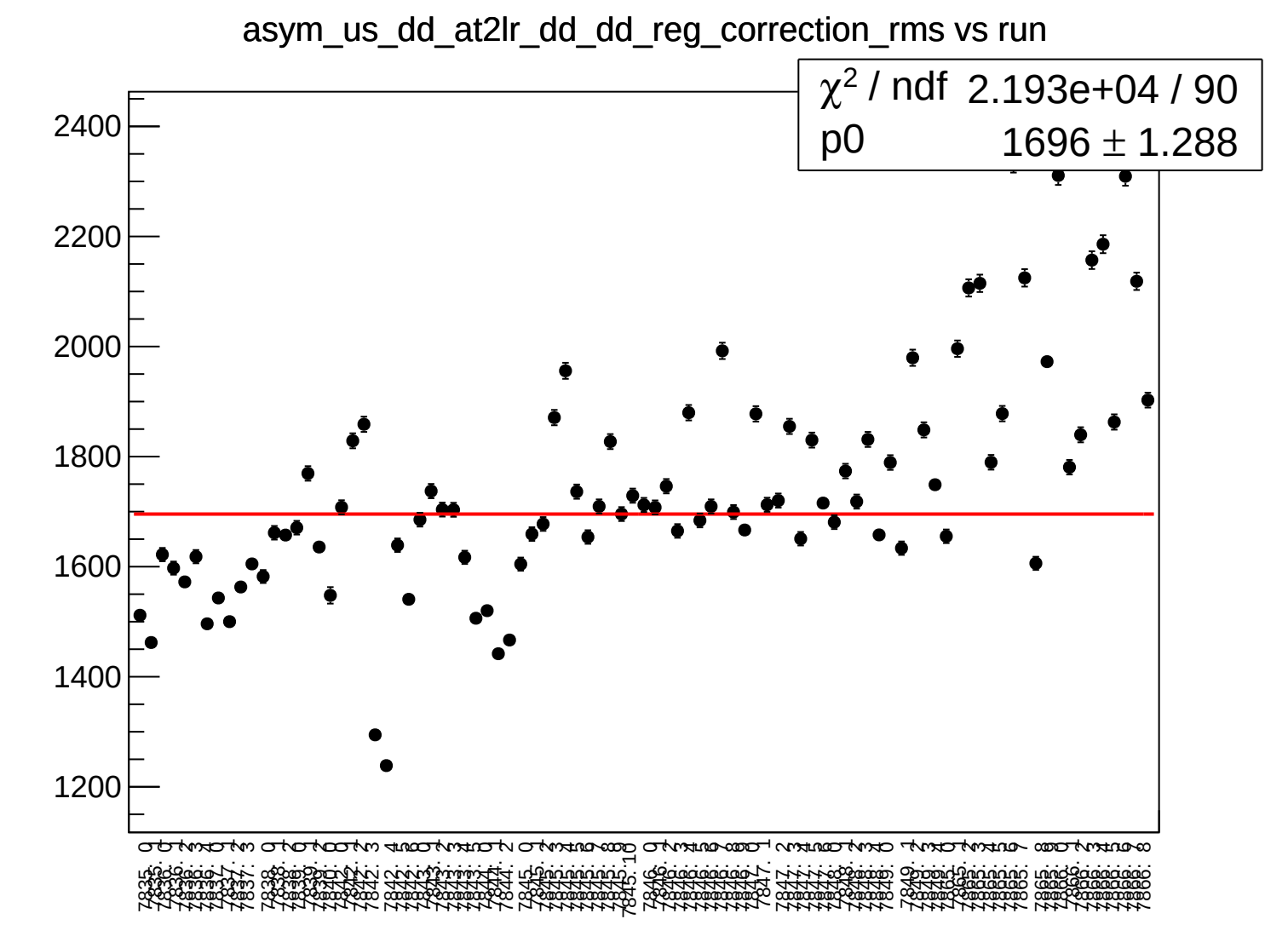

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 72.71 / 90
p0 772.1 ± 1766
pull
Entries 91
Mean −67.49
Std Dev 0

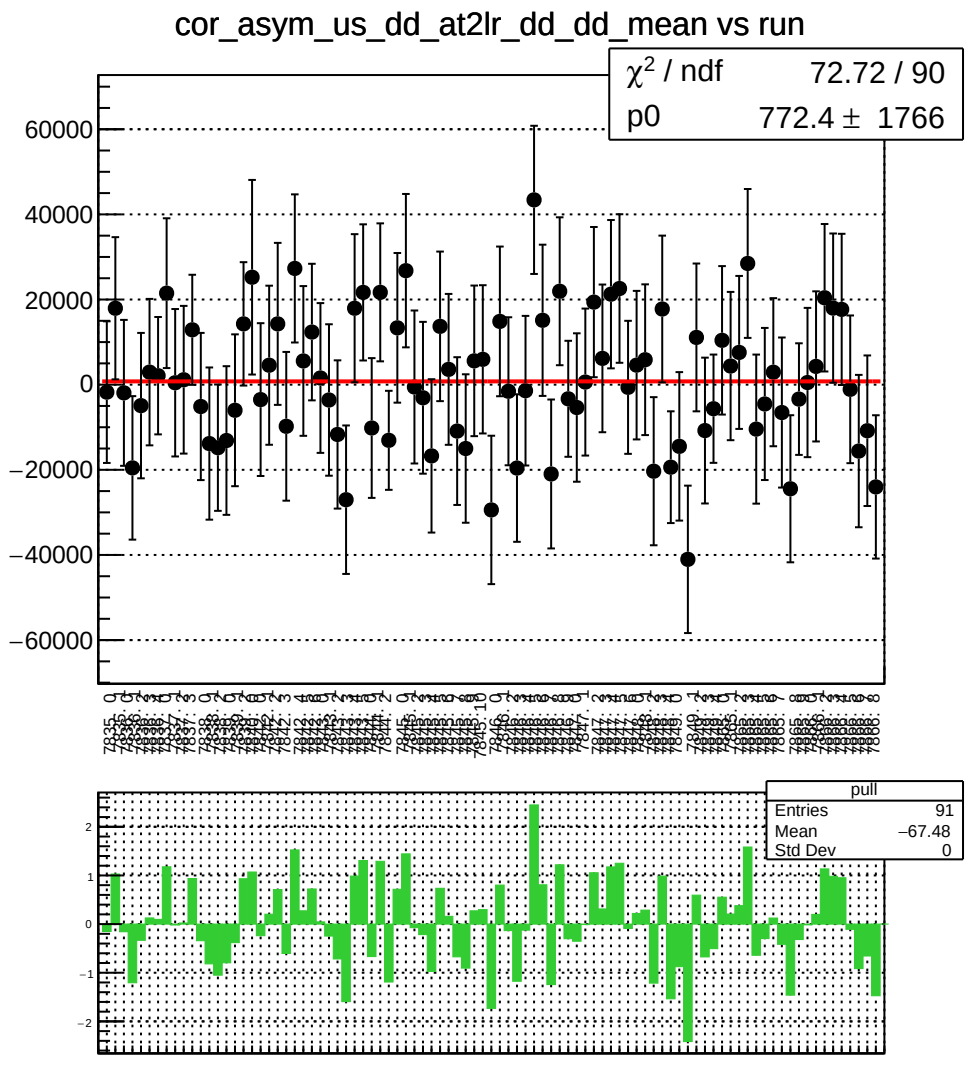

pull1D
Entries 91
Mean 0.01459
Std Dev 0.8938

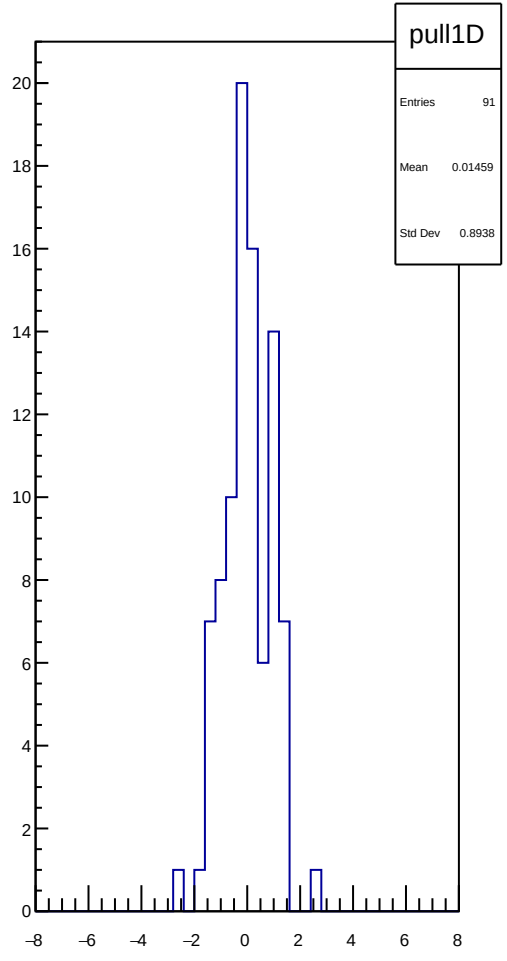

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 982.1 / 90
p0 1654 ± 1.249
1800
1750
1700
1650
1600
1550
1500

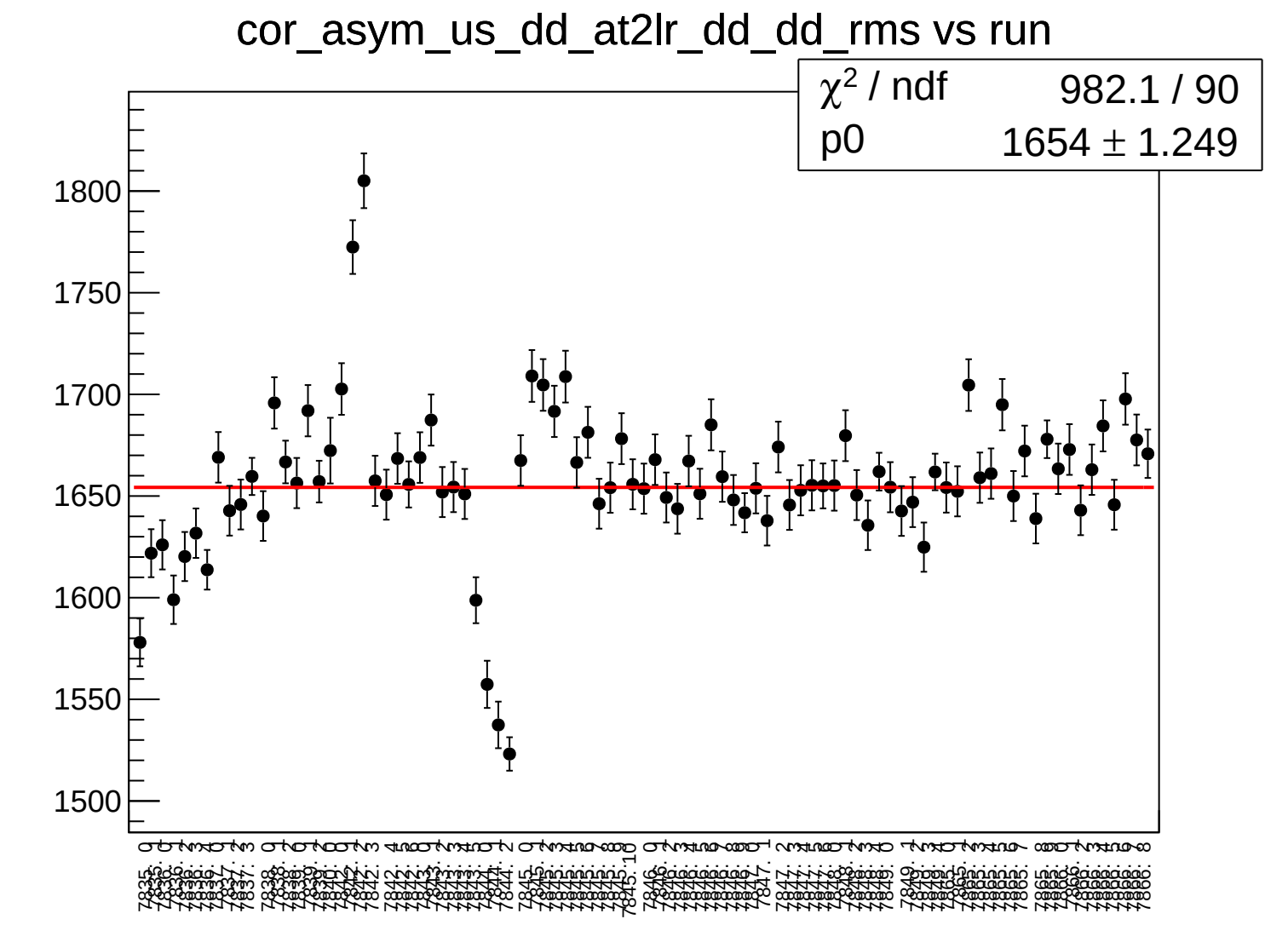

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 92.33 / 90
p0 −2112 ± 1821
pull
Entries 91
Mean 7.647
Std Dev 0

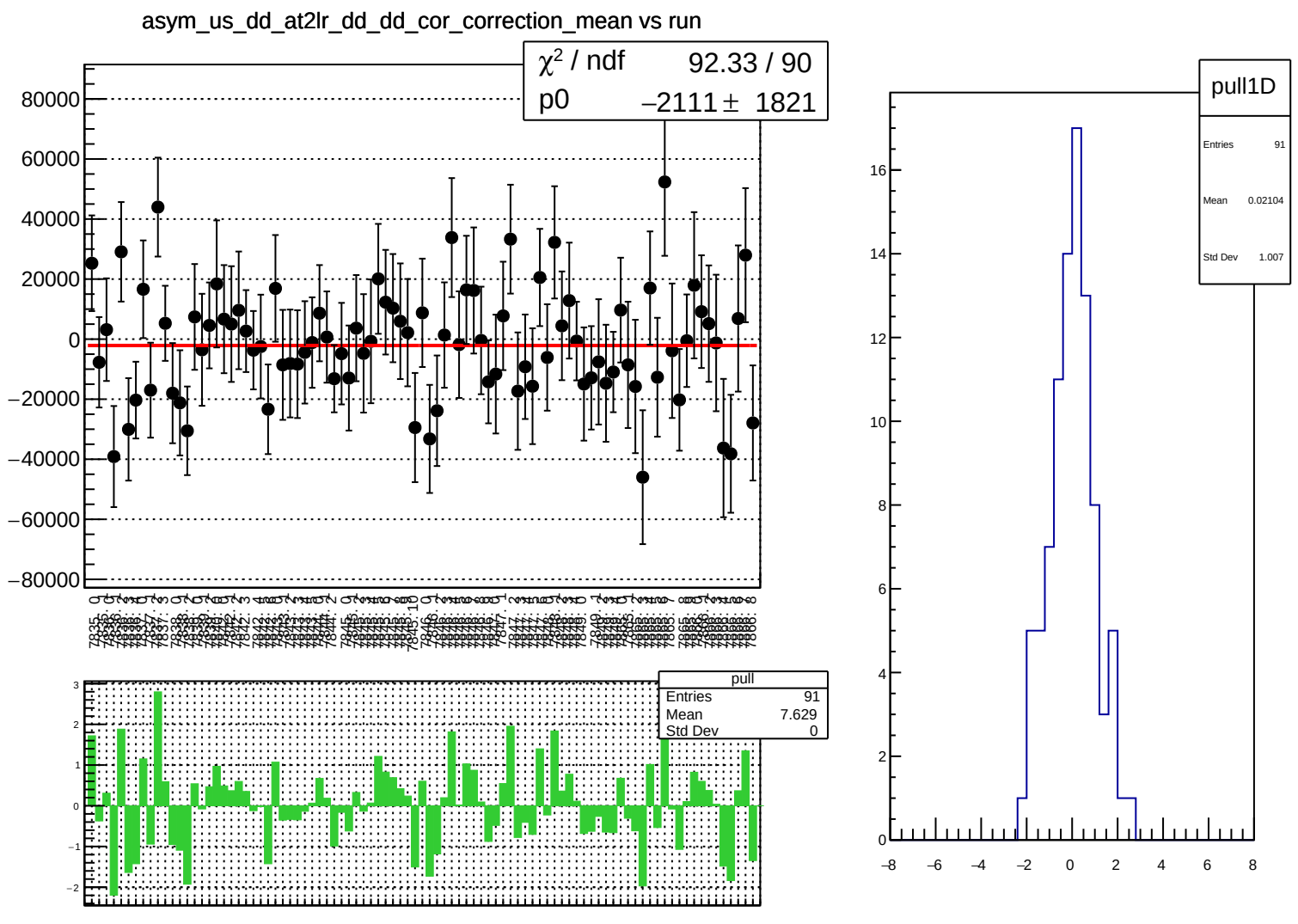

pull1D
Entries 91
Mean 0.02105
Std Dev 1.007

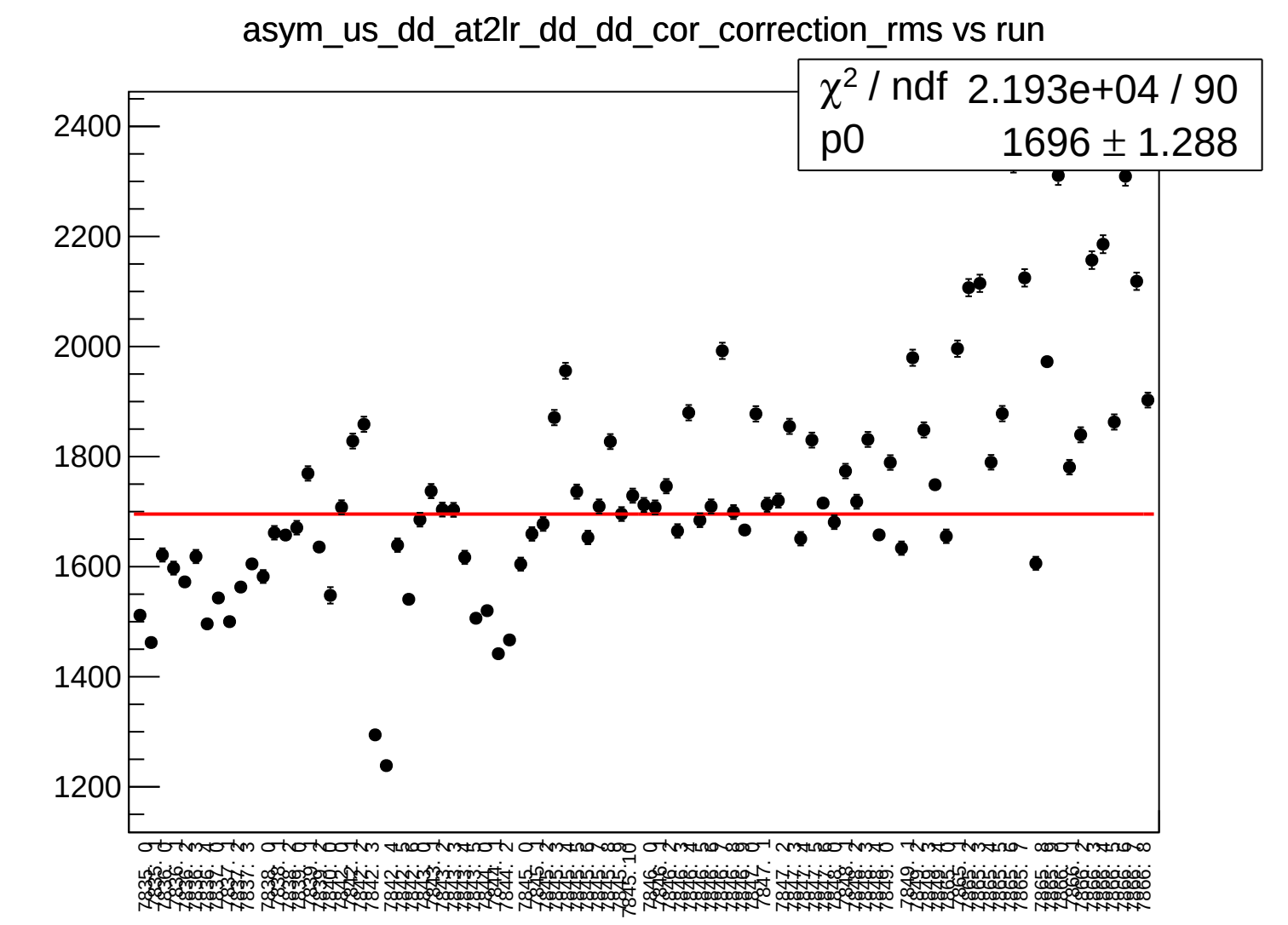

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.193e+04 / 90
p0 1696 ± 1.288
2400
2200
2000
1800
1600
1400
1200

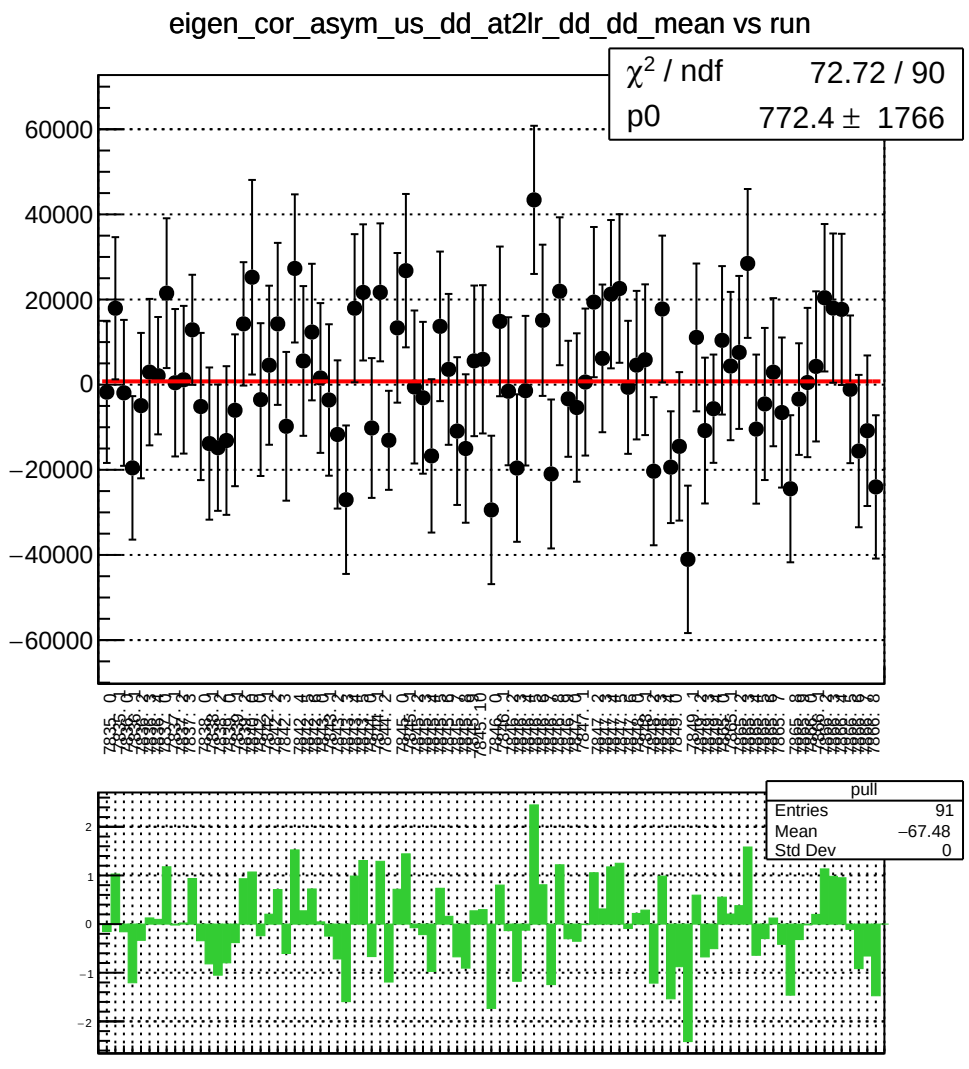

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 72.72 / 90
p0 772.4 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −67.48
Std Dev 0
2
1
0
−1
−2

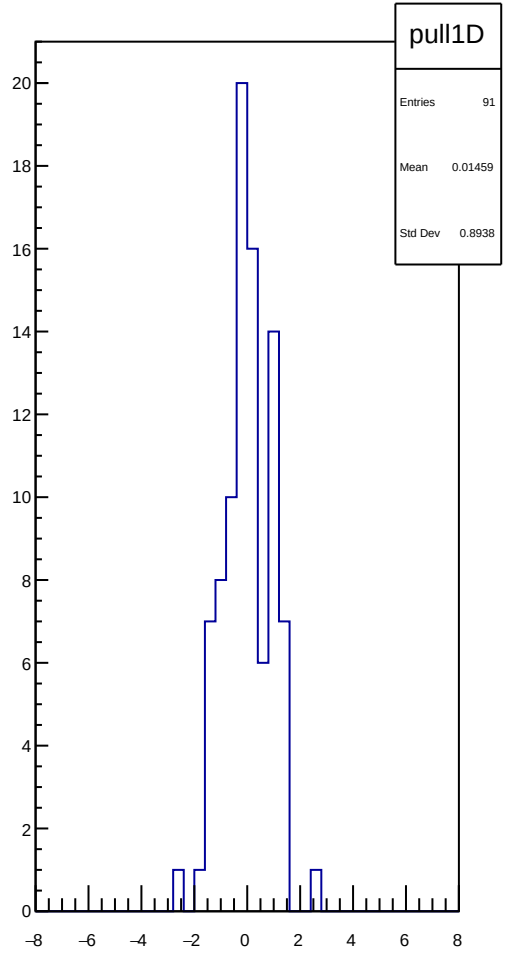

pull1D
Entries 91
Mean 0.01459
Std Dev 0.8938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

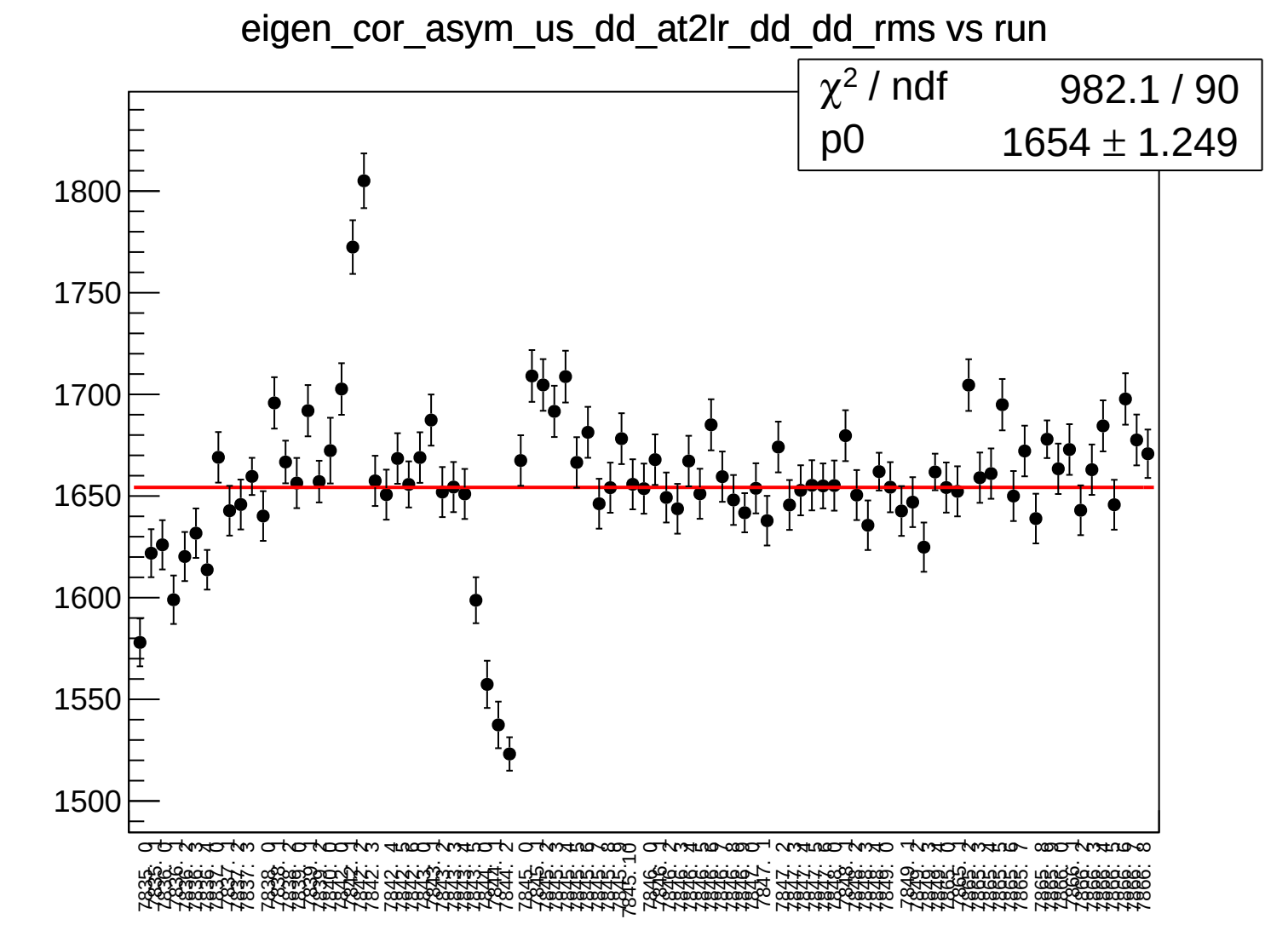

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 982.1 / 90
p0 1654 ± 1.249
1800
1750
1700
1650
1600
1550
1500

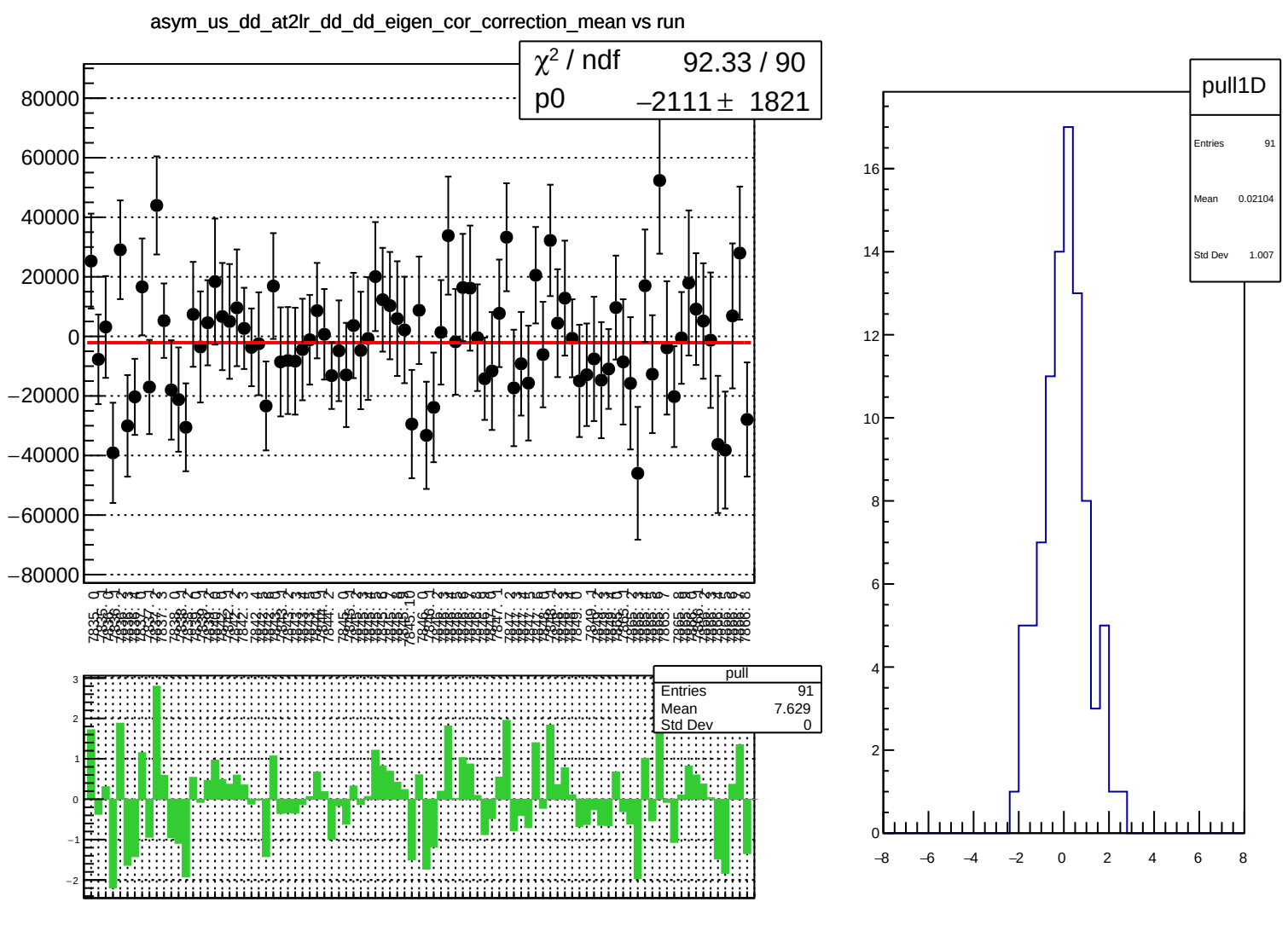

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 92.33 / 90
p0 −2111 ± 1821
pull
Entries 91
Mean 7.629
Std Dev 0
pull1D
Entries 91
Mean 0.02104
Std Dev 1.007

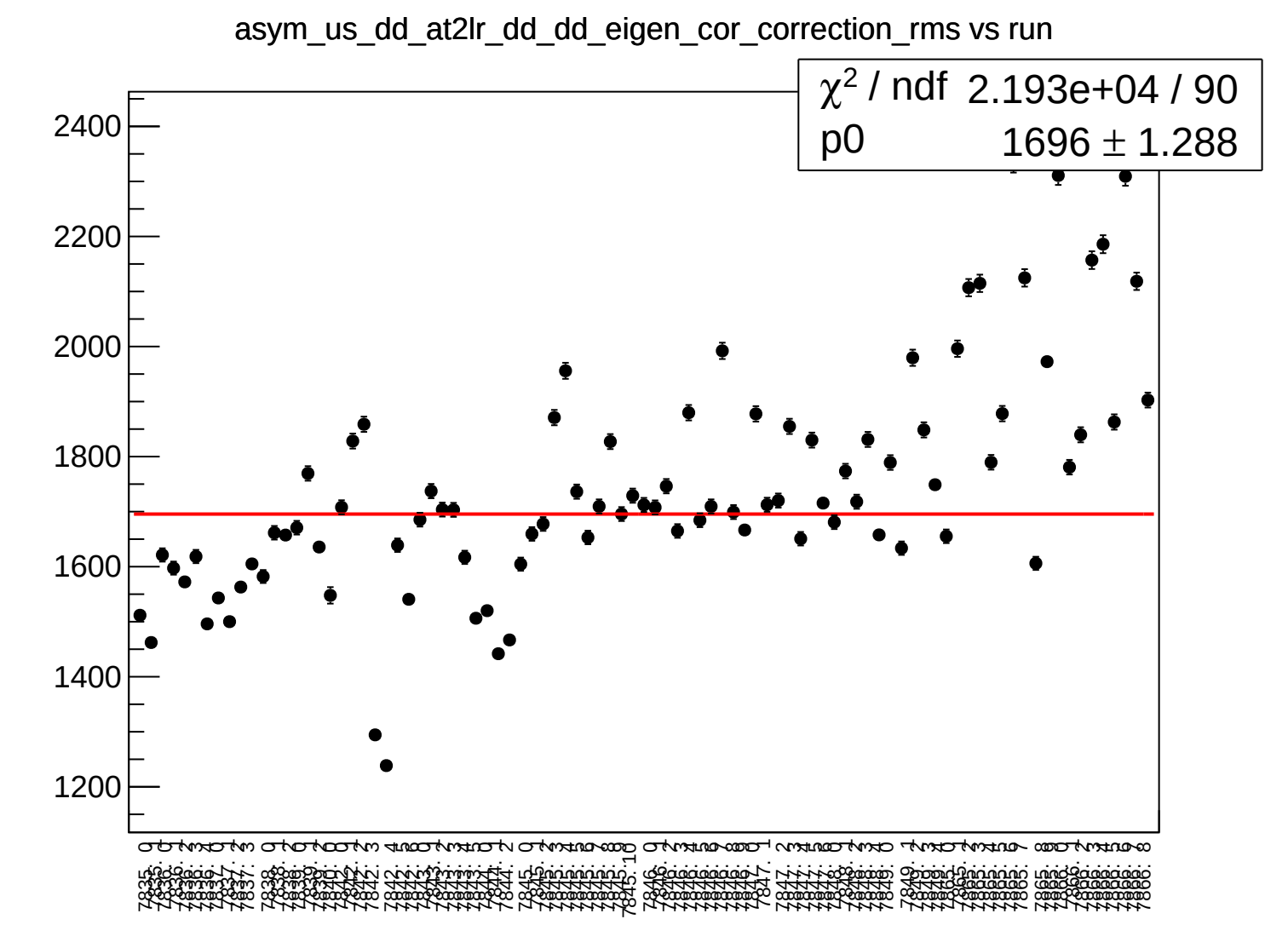

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.193e+04 / 90
p0 1696 ± 1.288
2400
2200
2000
1800
1600
1400
1200

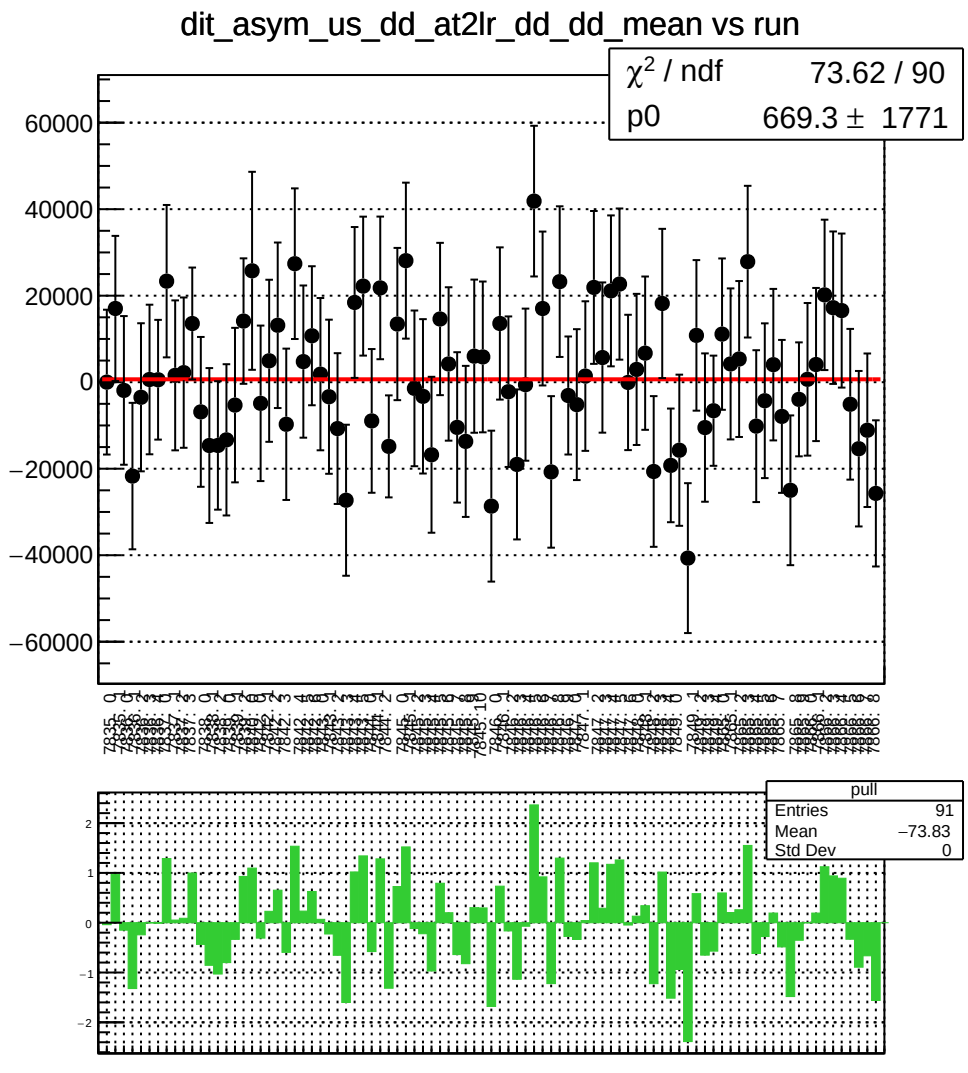

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 72.72 / 90
p0 772.4 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −67.48
Std Dev 0
2
1
0
−1
−2

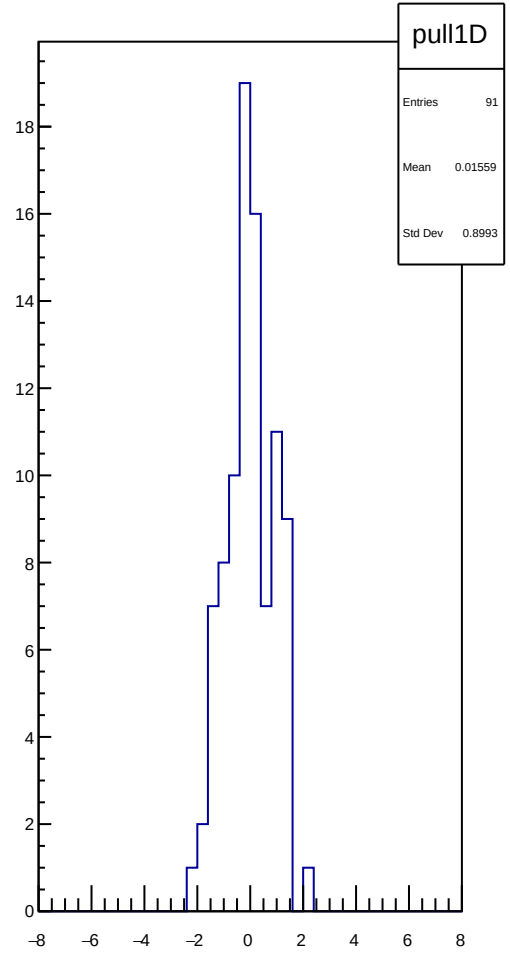

pull1D
Entries 91
Mean 0.01459
Std Dev 0.8938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

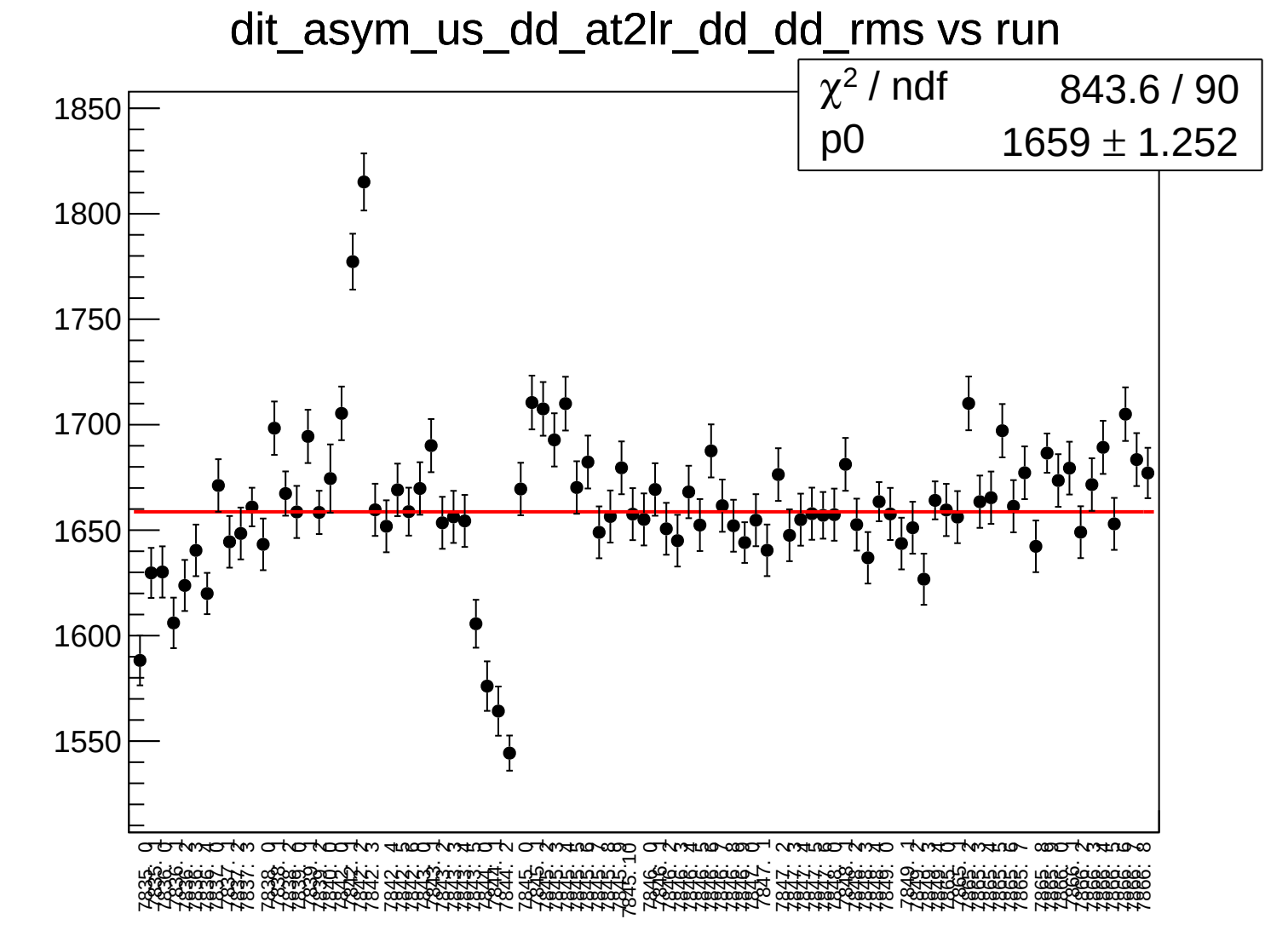

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 982.1 / 90
p0 1654 ± 1.249
1800
1750
1700
1650
1600
1550
1500

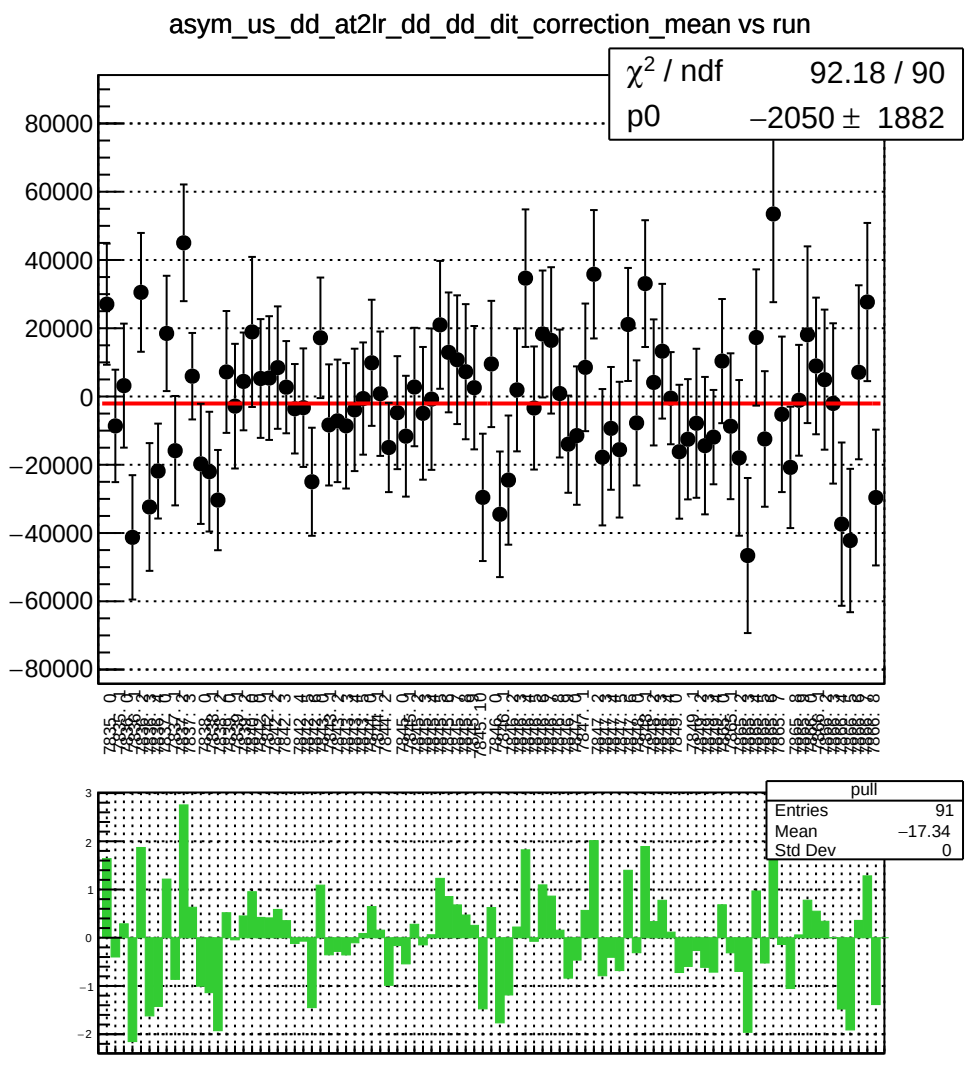

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.33 / 90
p0 −2111 ± 1821
pull
Entries 91
Mean 7.629
Std Dev 0
pull1D
Entries 91
Mean 0.02104
Std Dev 1.007

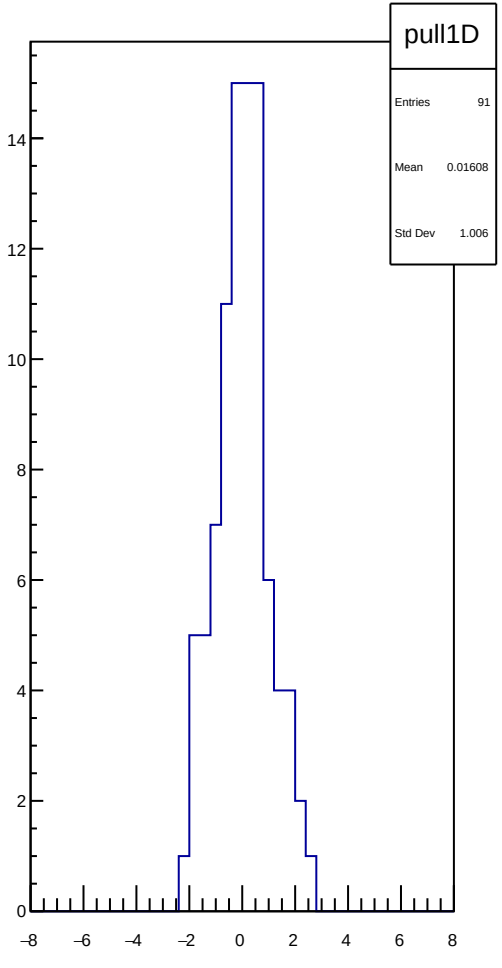

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.193e+04 / 90
p0 1696 ± 1.288
2400
2200
2000
1800
1600
1400
1200

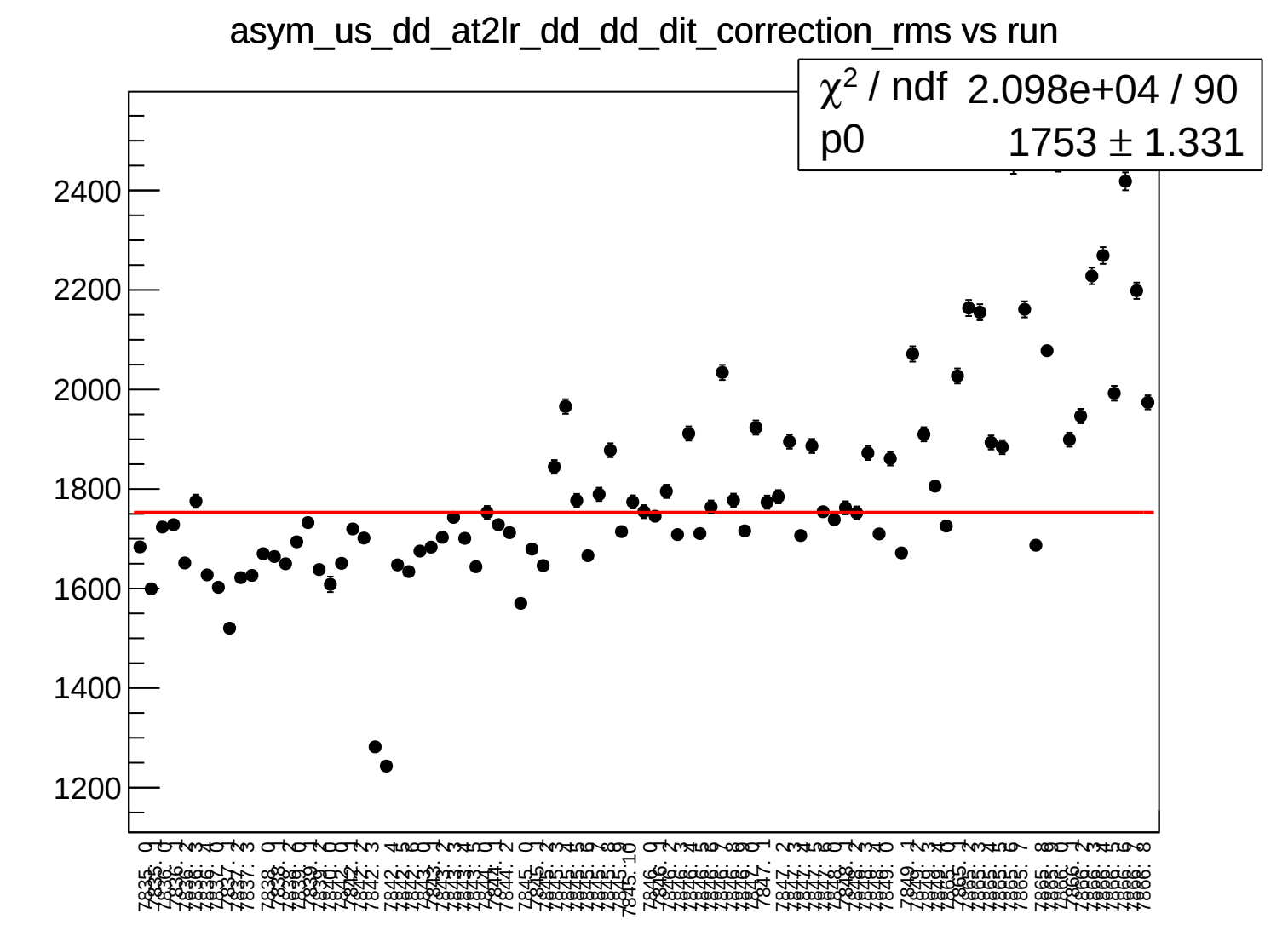

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.62 / 90
p0 669.3 ± 1771
pull
Entries 91
Mean −73.83
Std Dev 0

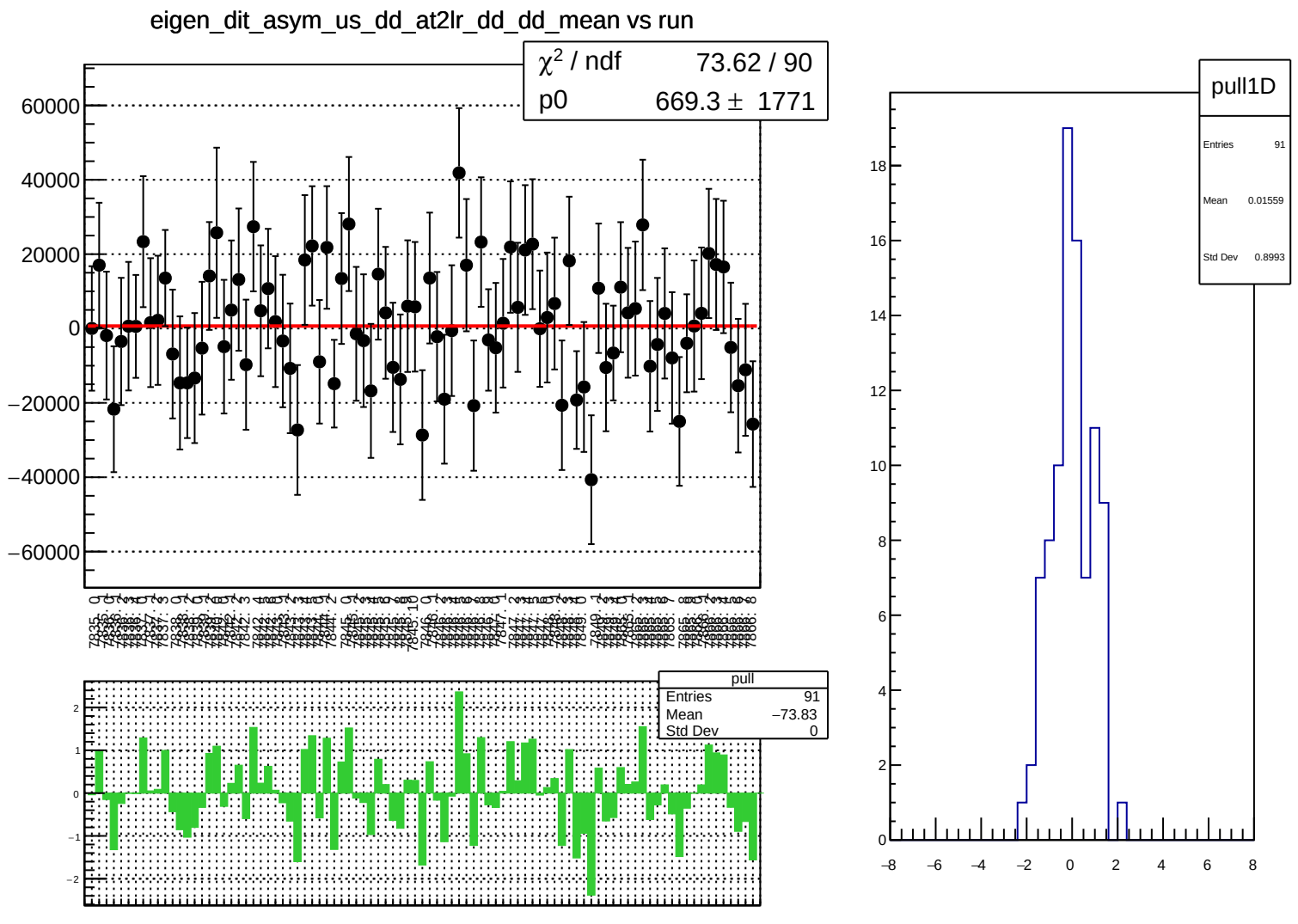

pull1D
Entries 91
Mean 0.01559
Std Dev 0.8993

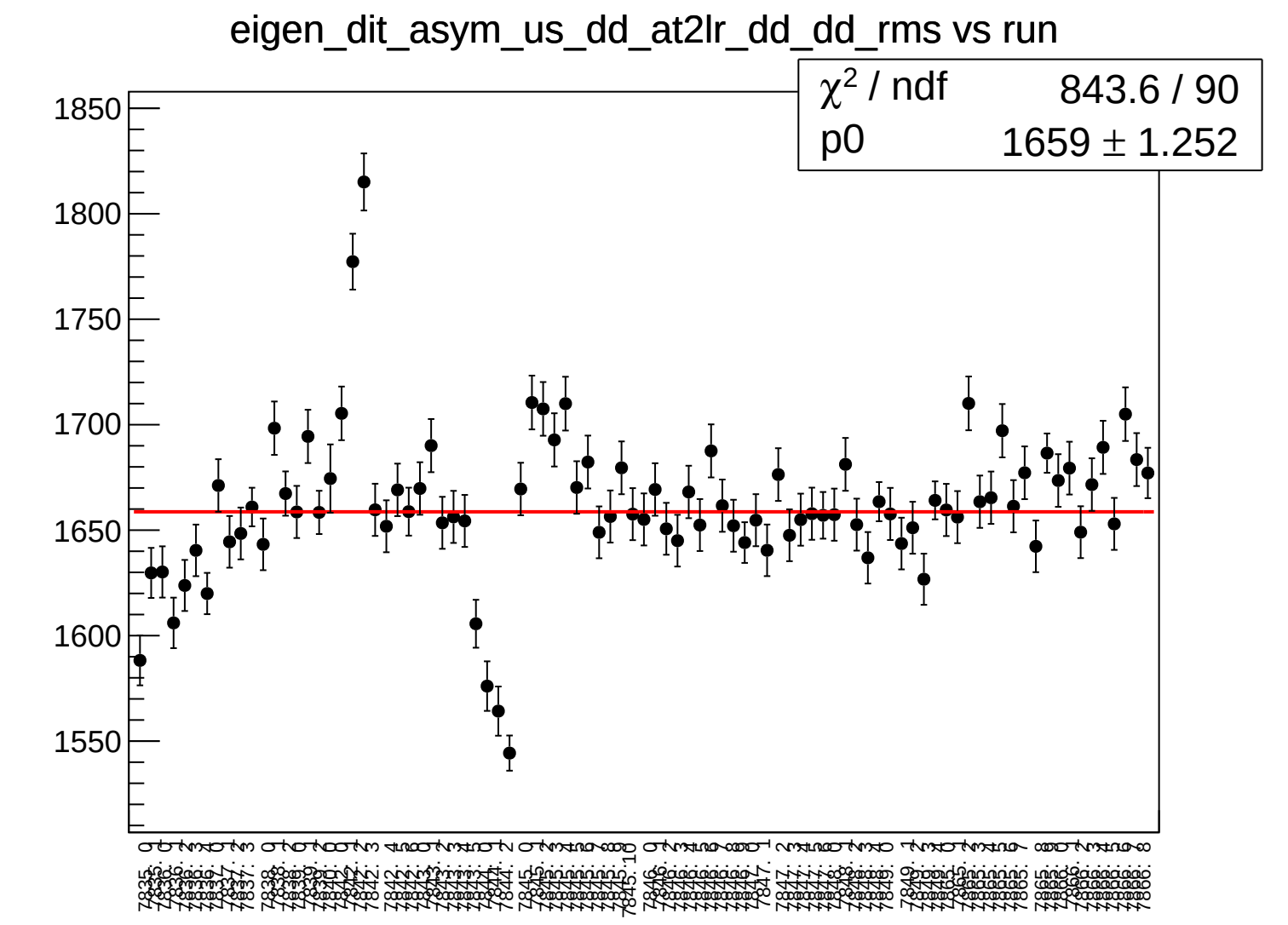

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 843.6 / 90
p0 1659 ± 1.252
1850
1800
1750
1700
1650
1600
1550

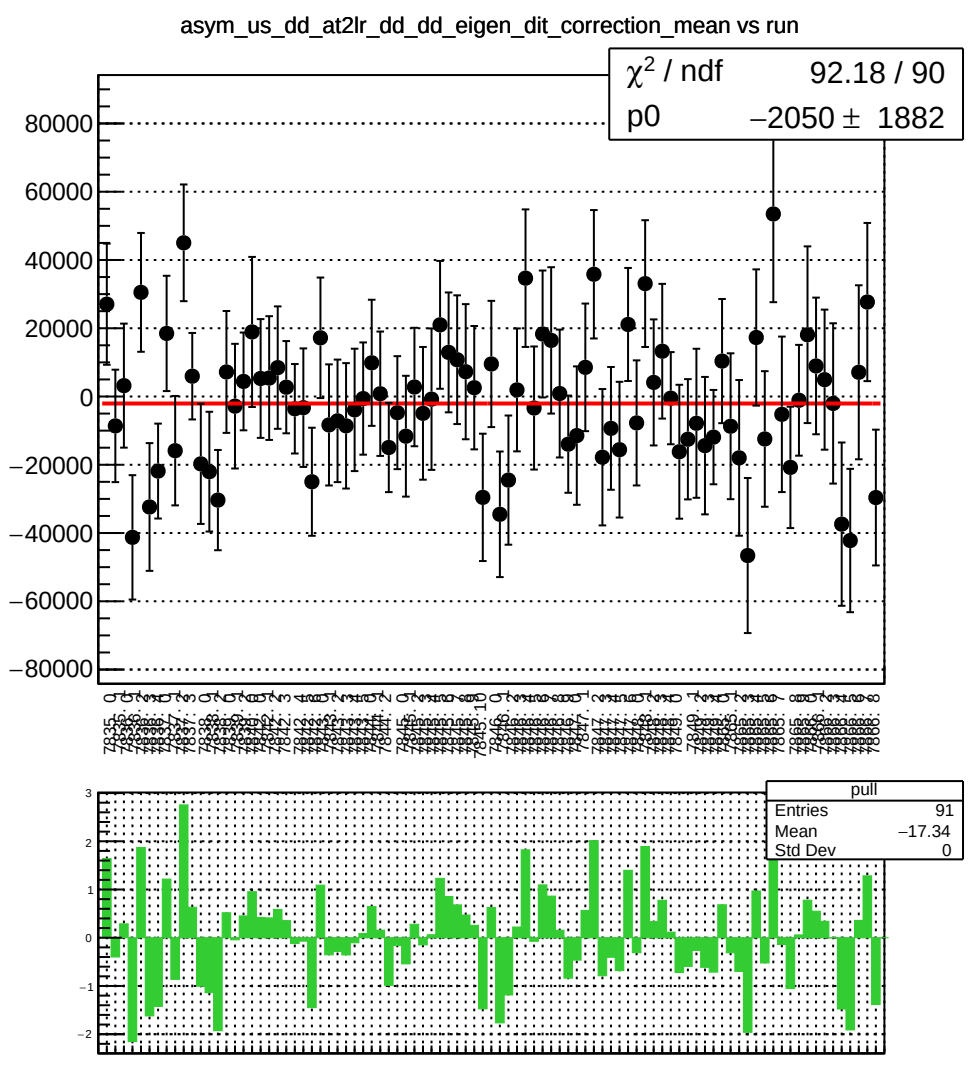

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 92.18 / 90
p0 −2050 ± 1882
pull
Entries 91
Mean −17.34
Std Dev 0

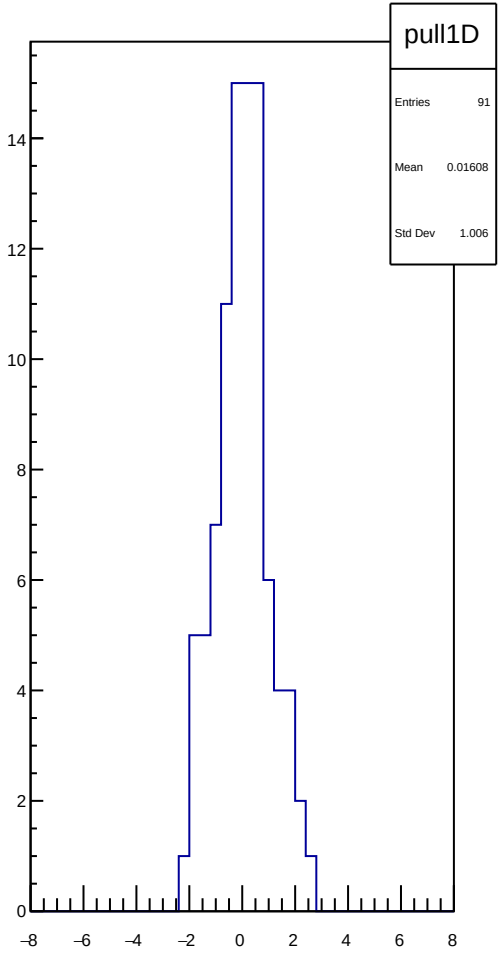

pull1D
Entries 91
Mean 0.01608
Std Dev 1.006

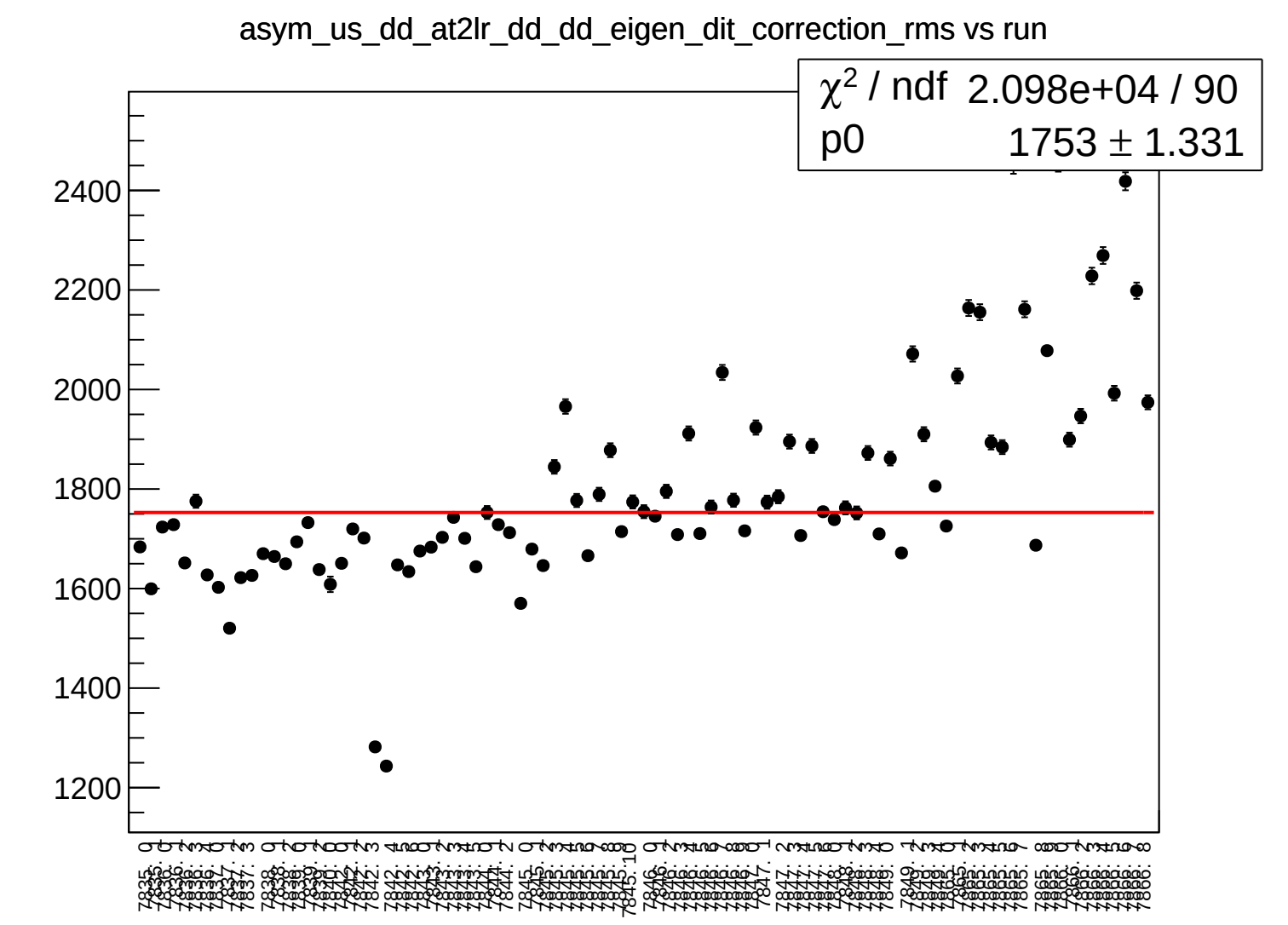

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.098e+04 / 90
p0 1753 ± 1.331
2400
2200
2000
1800
1600
1400
1200

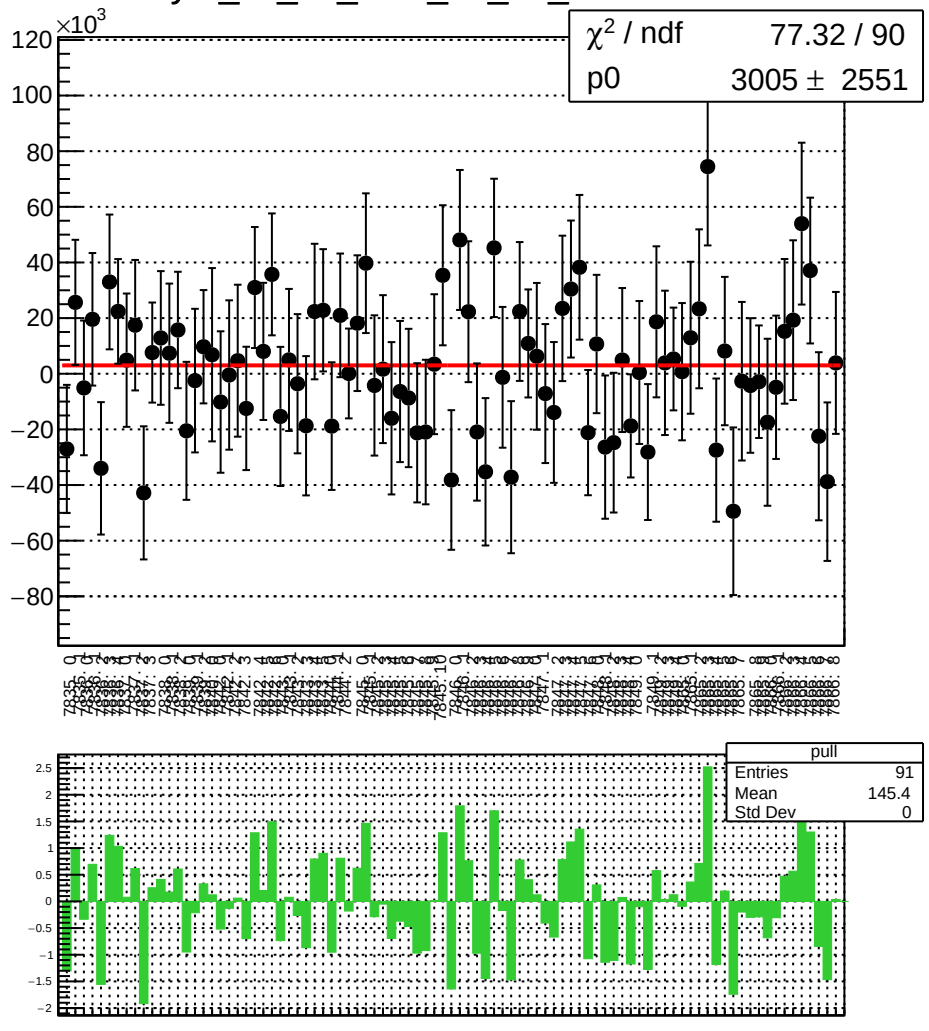

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.62 / 90
p0 669.3 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −73.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01559
Std Dev 0.8993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

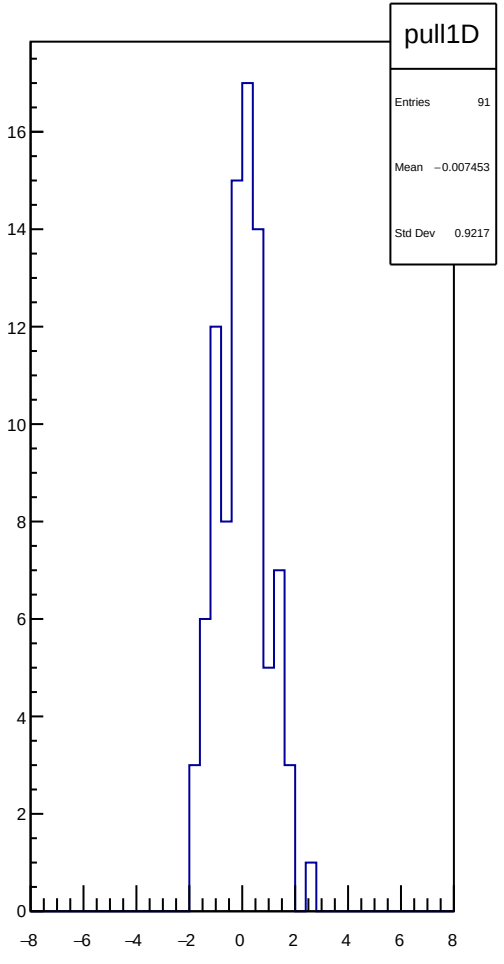

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 843.6 / 90
p0 1659 ± 1.252
1850
1800
1750
1700
1650
1600
1550

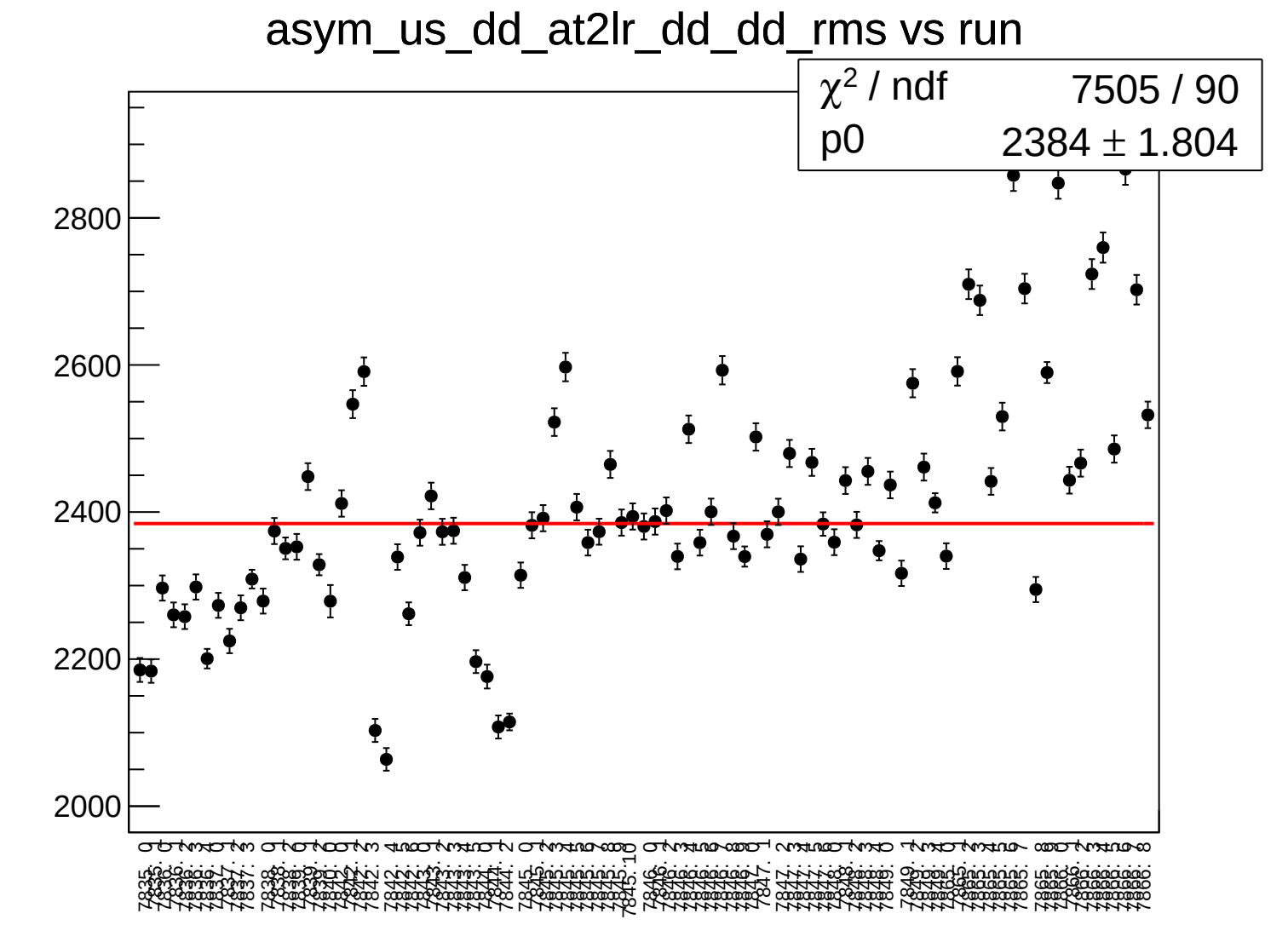

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.18 / 90
p0 −2050 ± 1882
pull
Entries 91
Mean −17.34
Std Dev 0

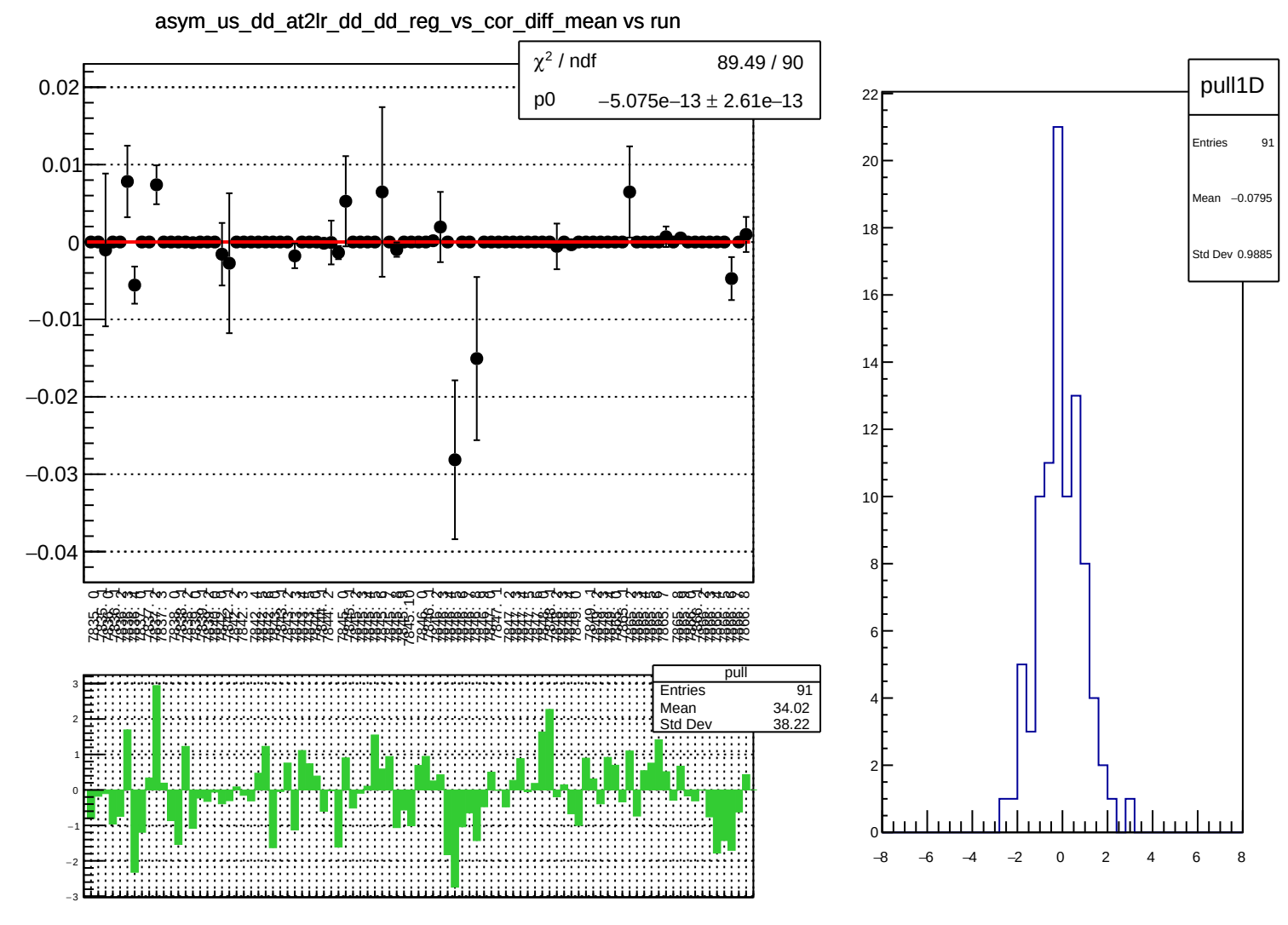

pull1D
Entries 91
Mean 0.01608
Std Dev 1.006

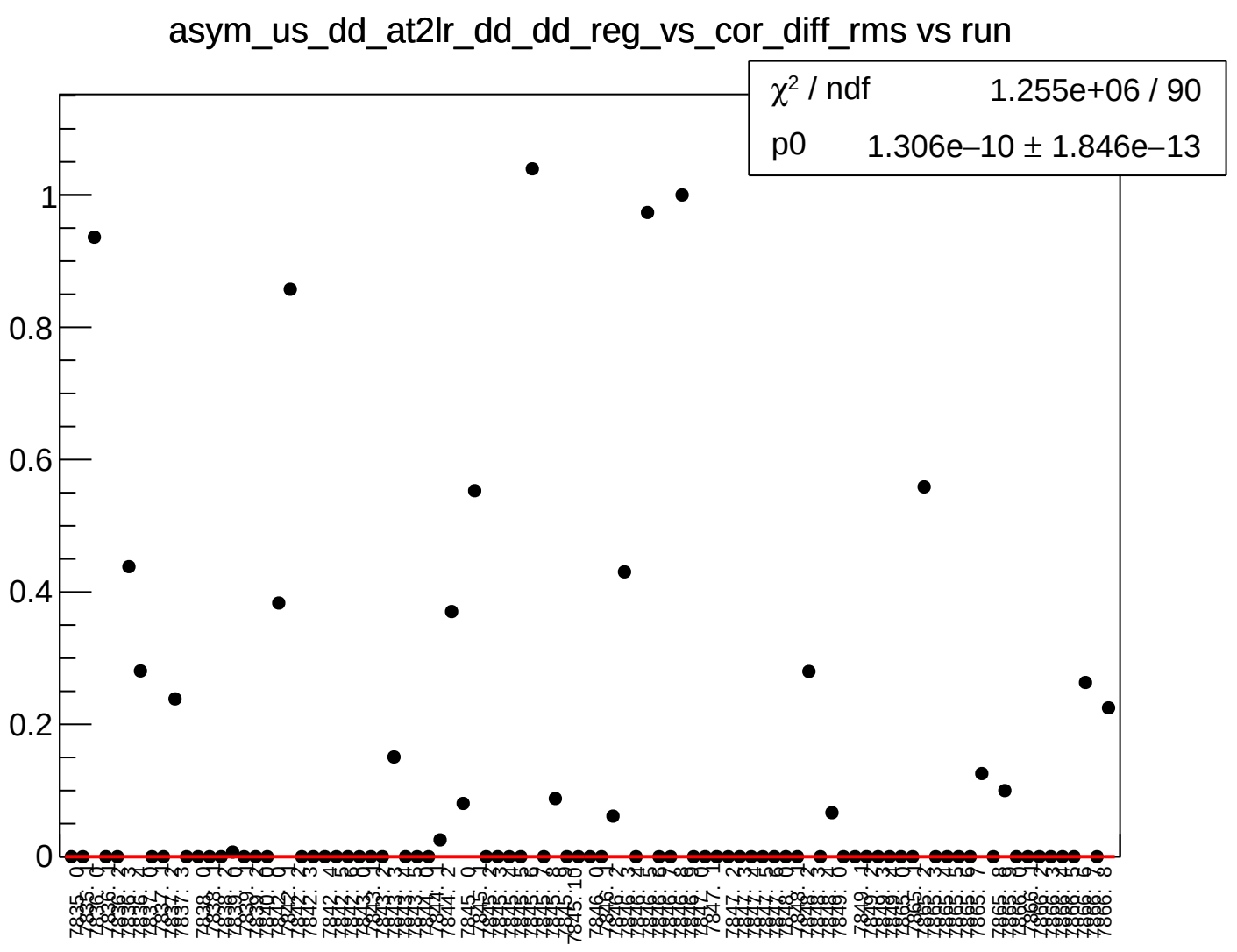

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.098e+04 / 90
p0 1753 ± 1.331
2400
2200
2000
1800
1600
1400
1200

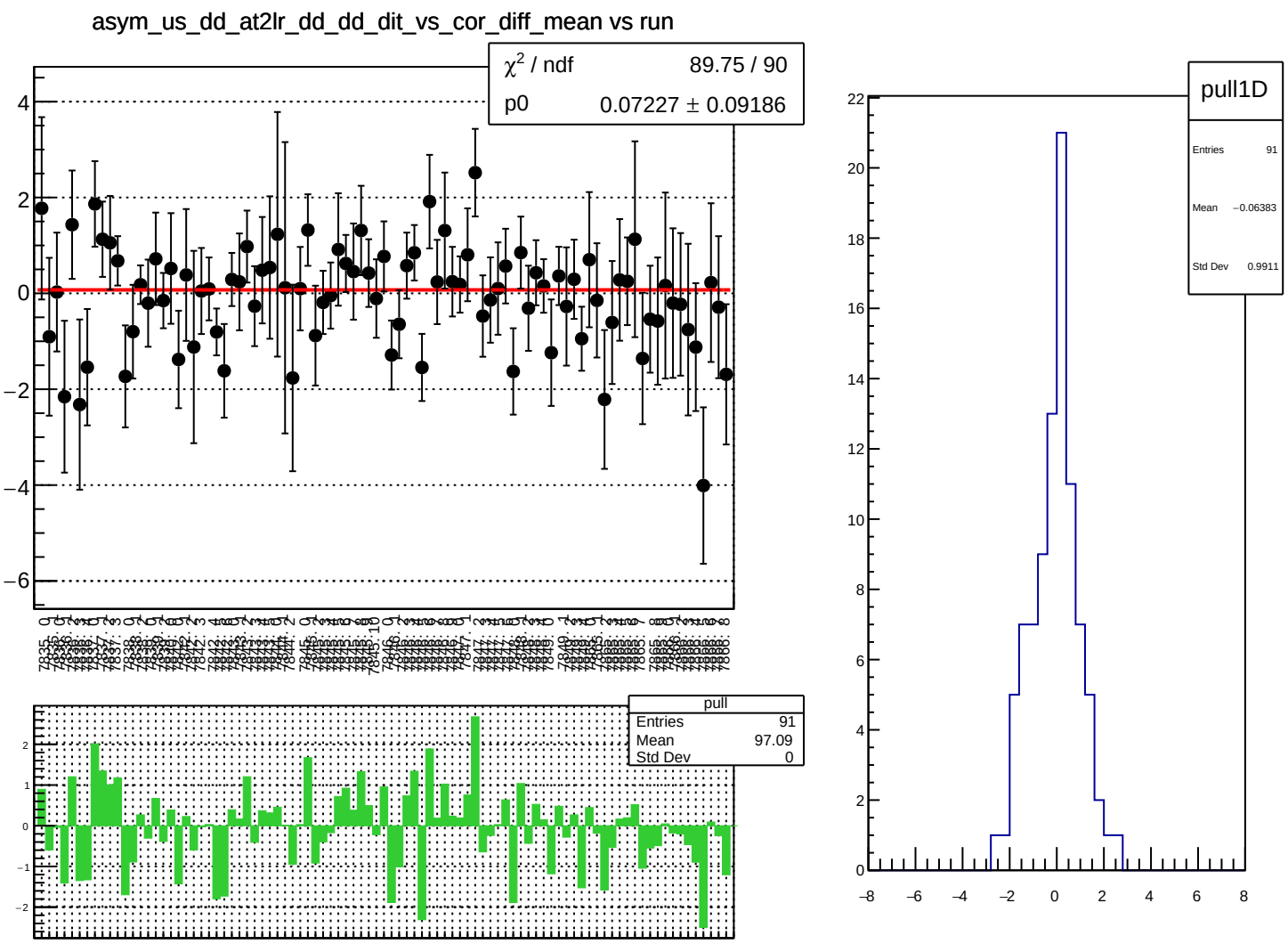

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 77.32 / 90
p0 3005 ± 2551
×10³
pull
Entries 91
Mean 145.4
Std Dev 0

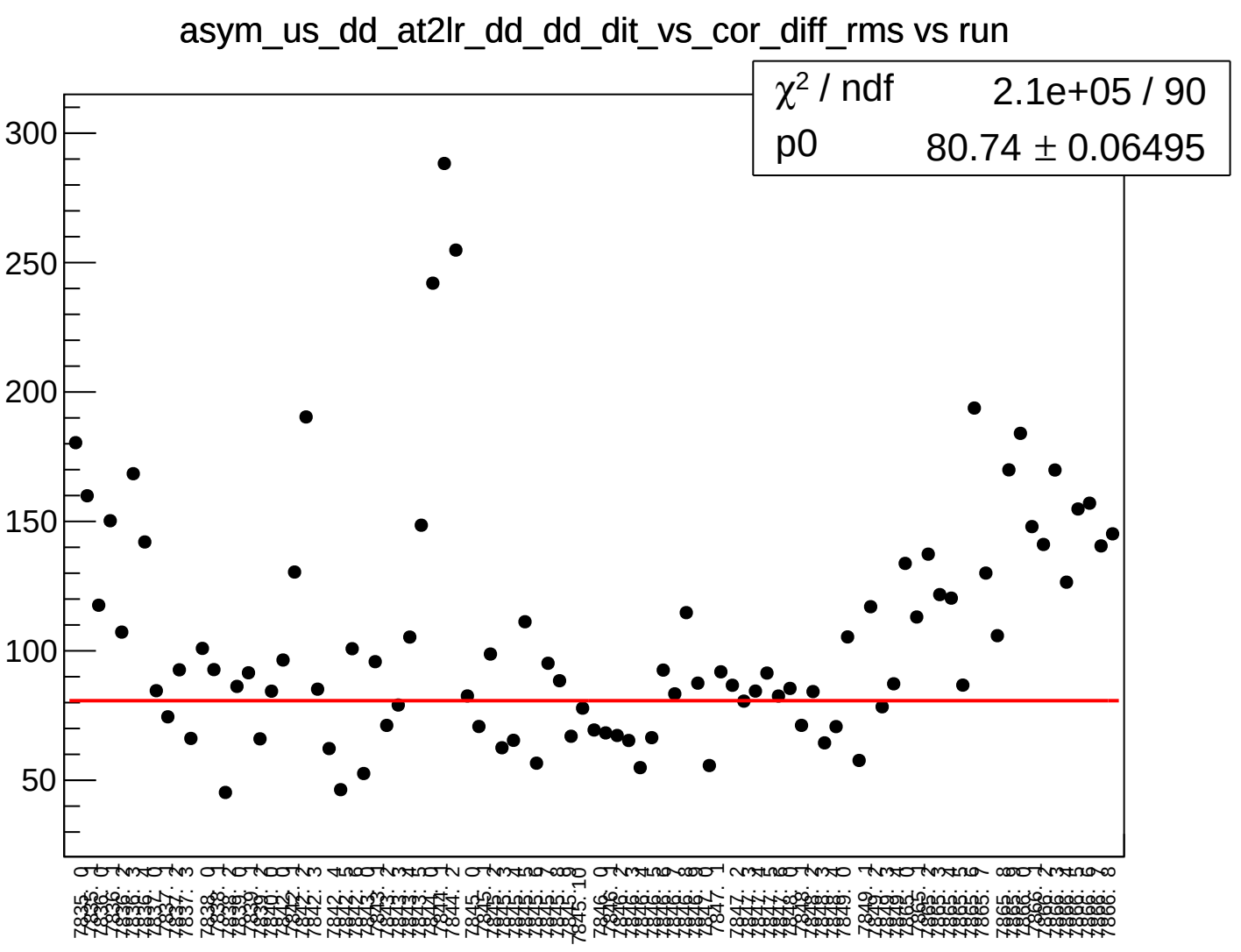

pull1D
Entries 91
Mean −0.007453
Std Dev 0.9217

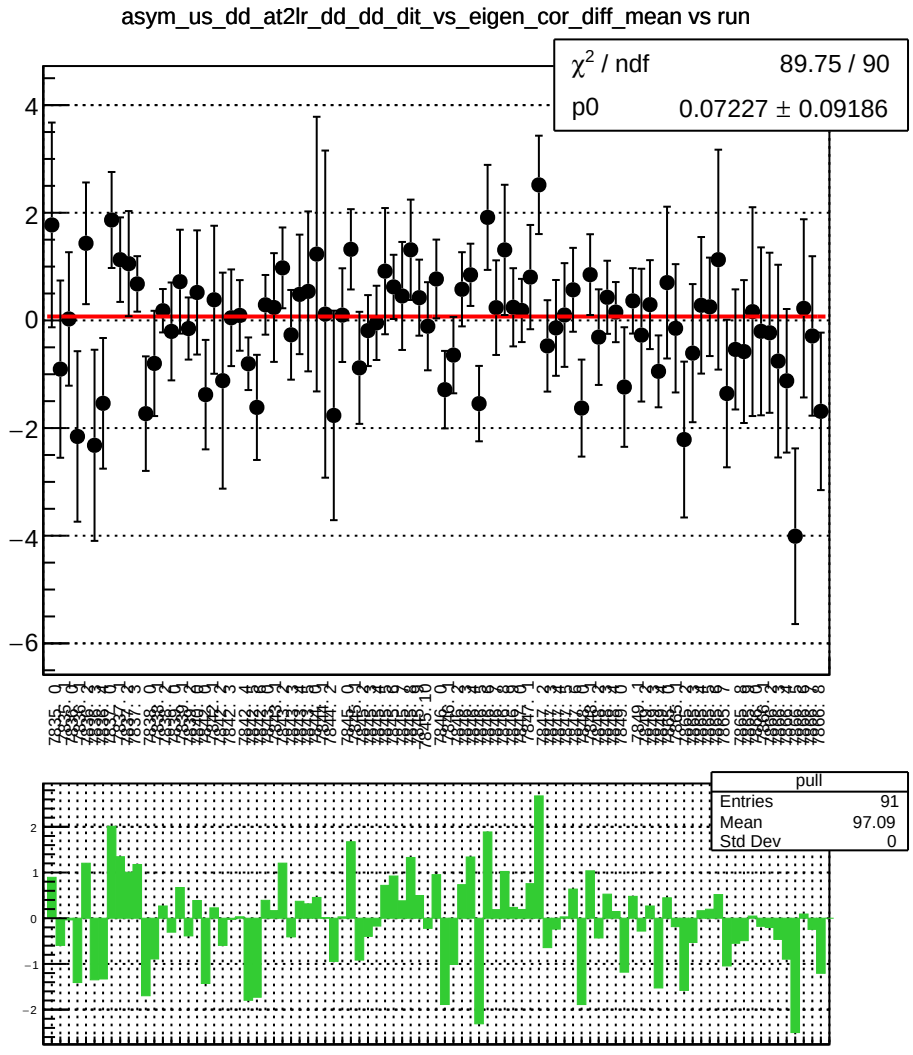

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 7505 / 90
p0 2384 ± 1.804
2800
2600
2400
2200
2000

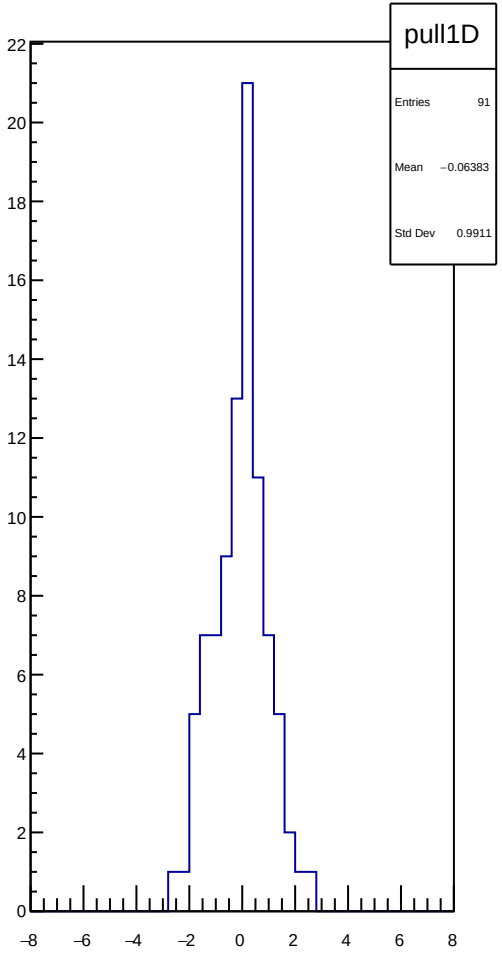

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.49 / 90
p0 −5.075e−13 ± 2.61e−13
pull
Entries 91
Mean 34.02
Std Dev 38.22
pull1D
Entries 91
Mean −0.0795
Std Dev 0.9885

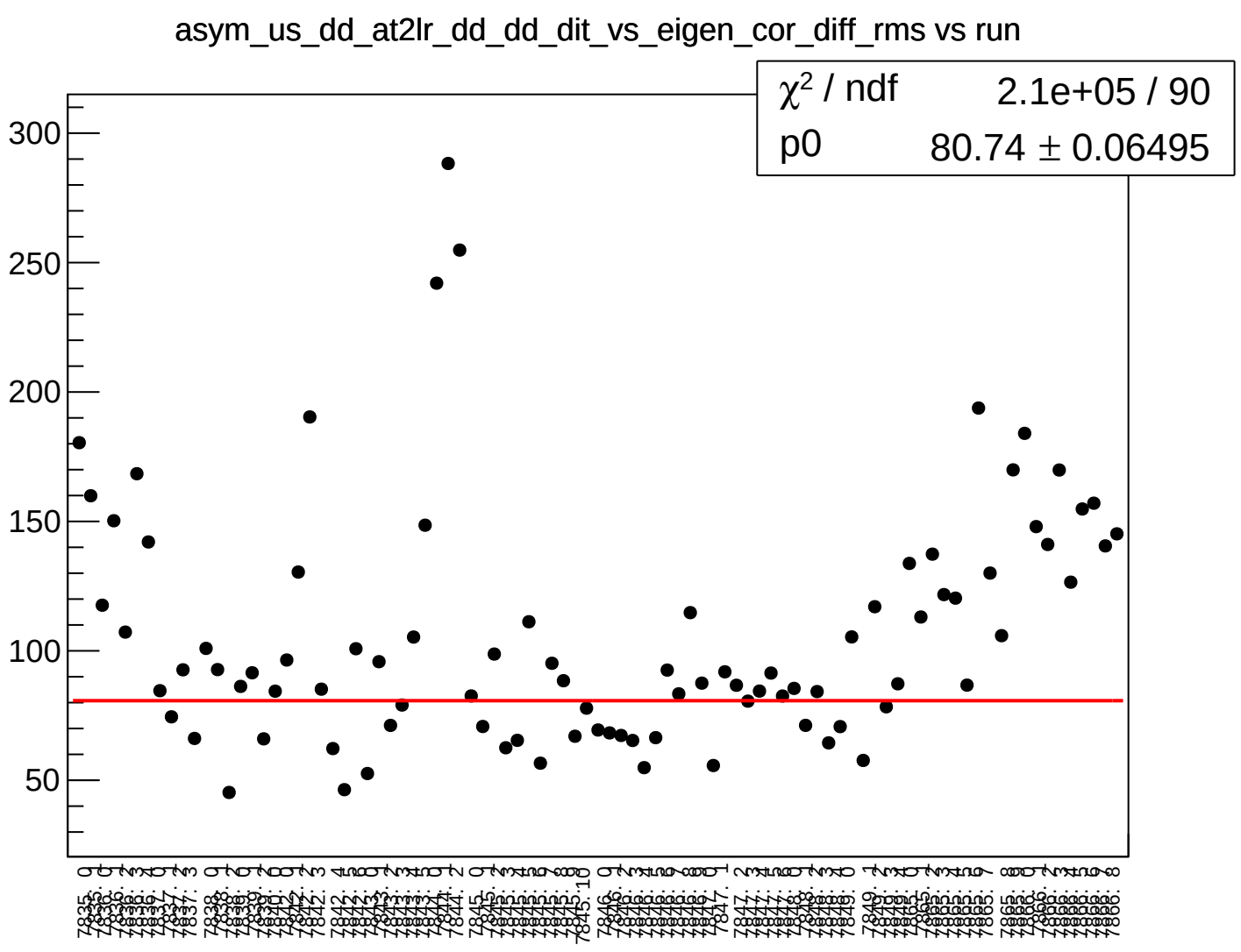

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.255e+06 / 90
p0 1.306e−10 ± 1.846e−13
1
0.8
0.6
0.4
0.2
0

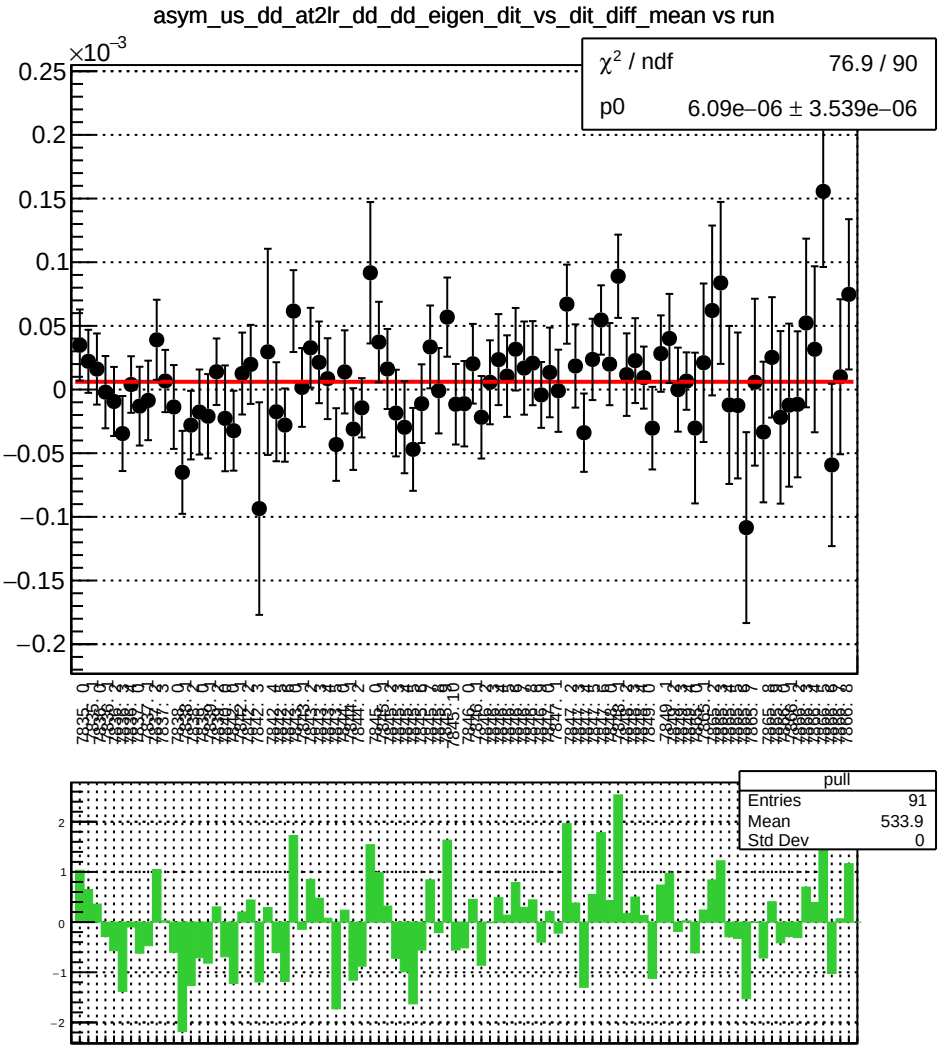

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.75 / 90
p0 0.07227 ± 0.09186
pull
Entries 91
Mean 97.09
Std Dev 0
pull1D
Entries 91
Mean −0.06383
Std Dev 0.9911

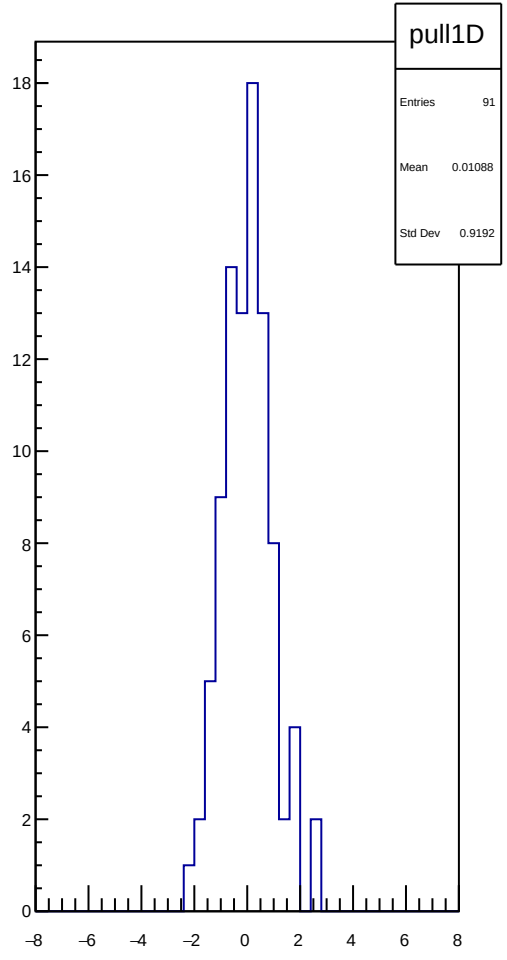

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.1e+05 / 90
p0 80.74 ± 0.06495
300
250
200
150
100
50

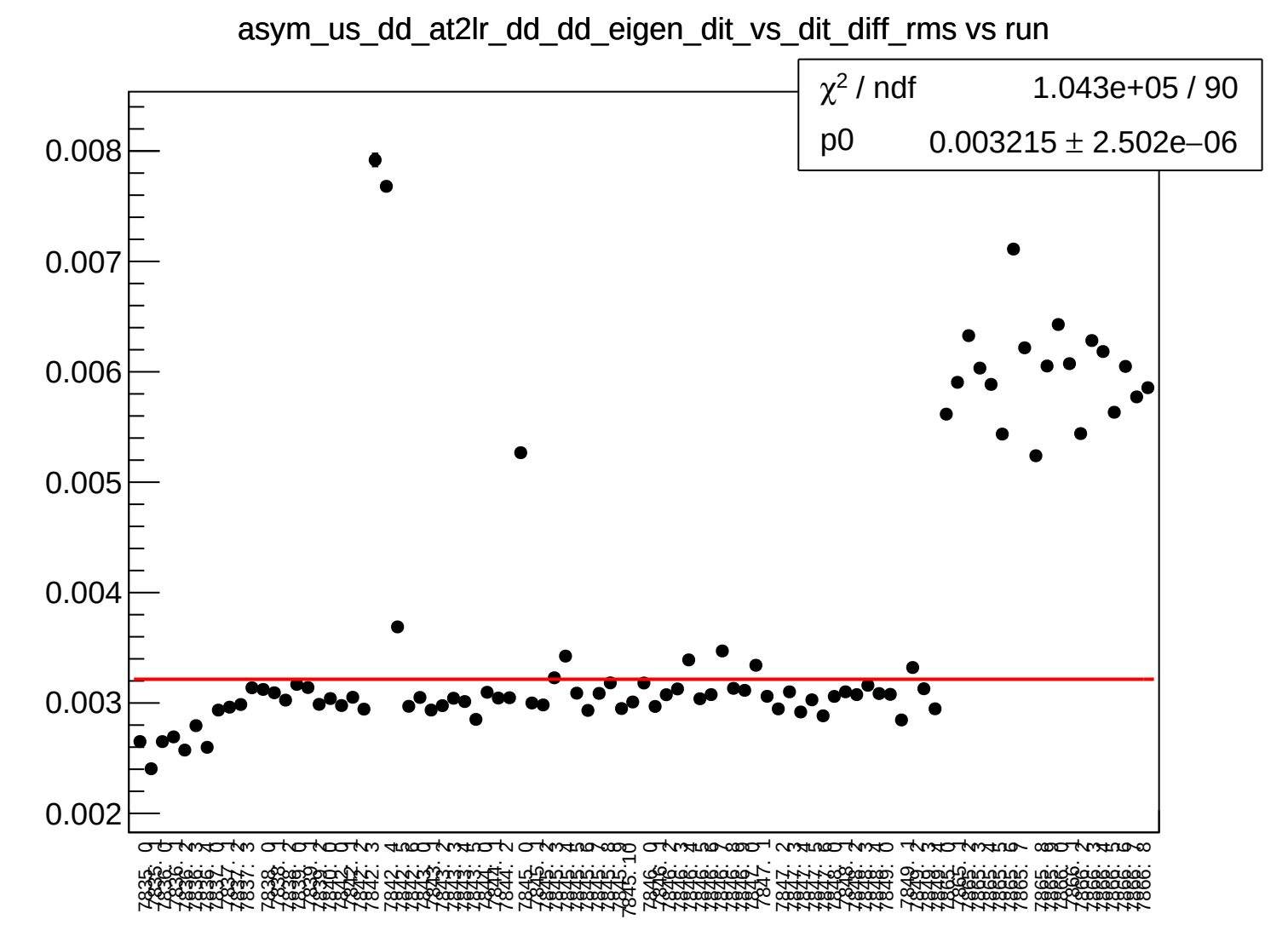

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.75 / 90
p0 0.07227 ± 0.09186
pull
Entries 91
Mean 97.09
Std Dev 0

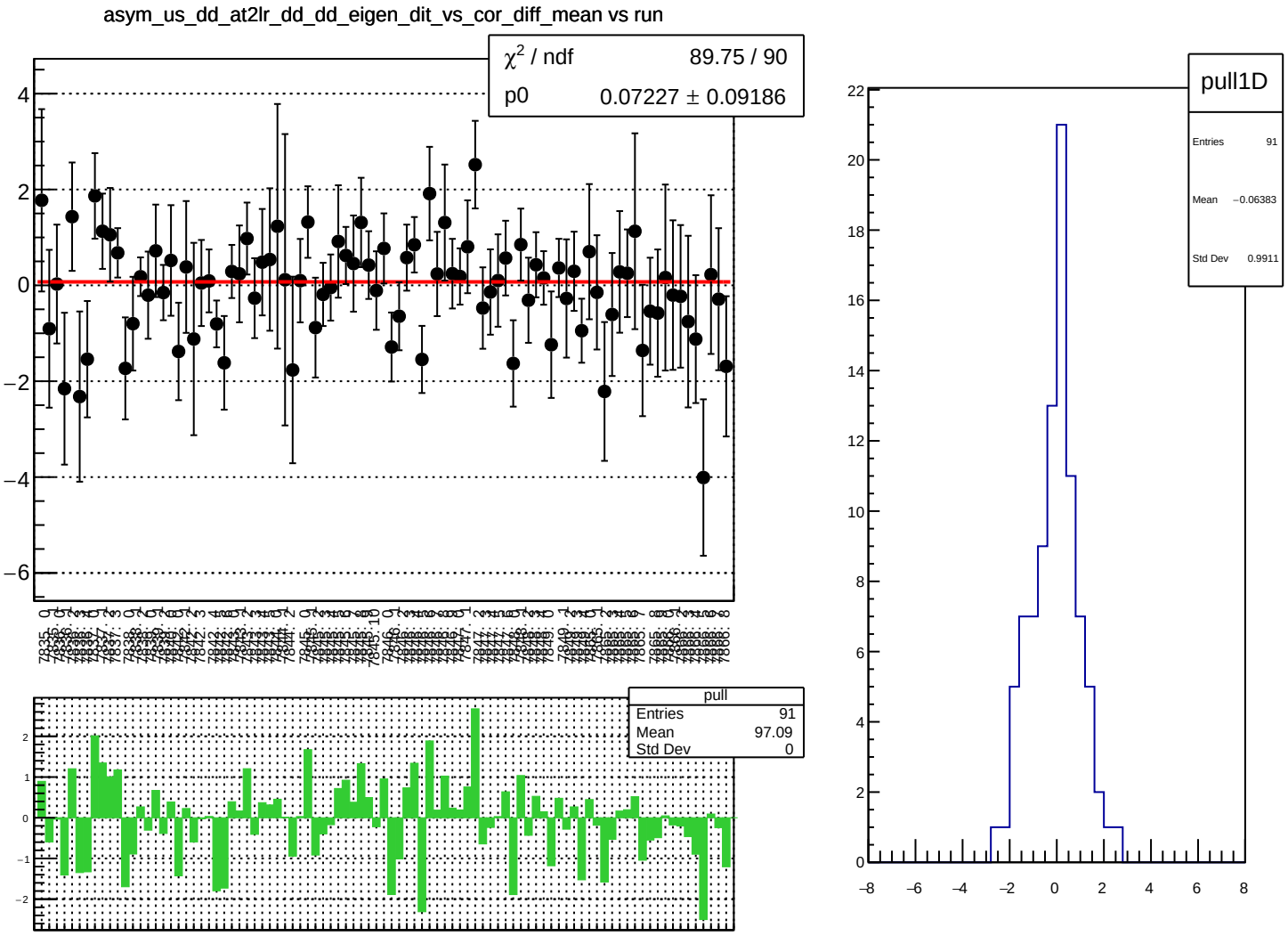

pull1D
Entries 91
Mean −0.06383
Std Dev 0.9911

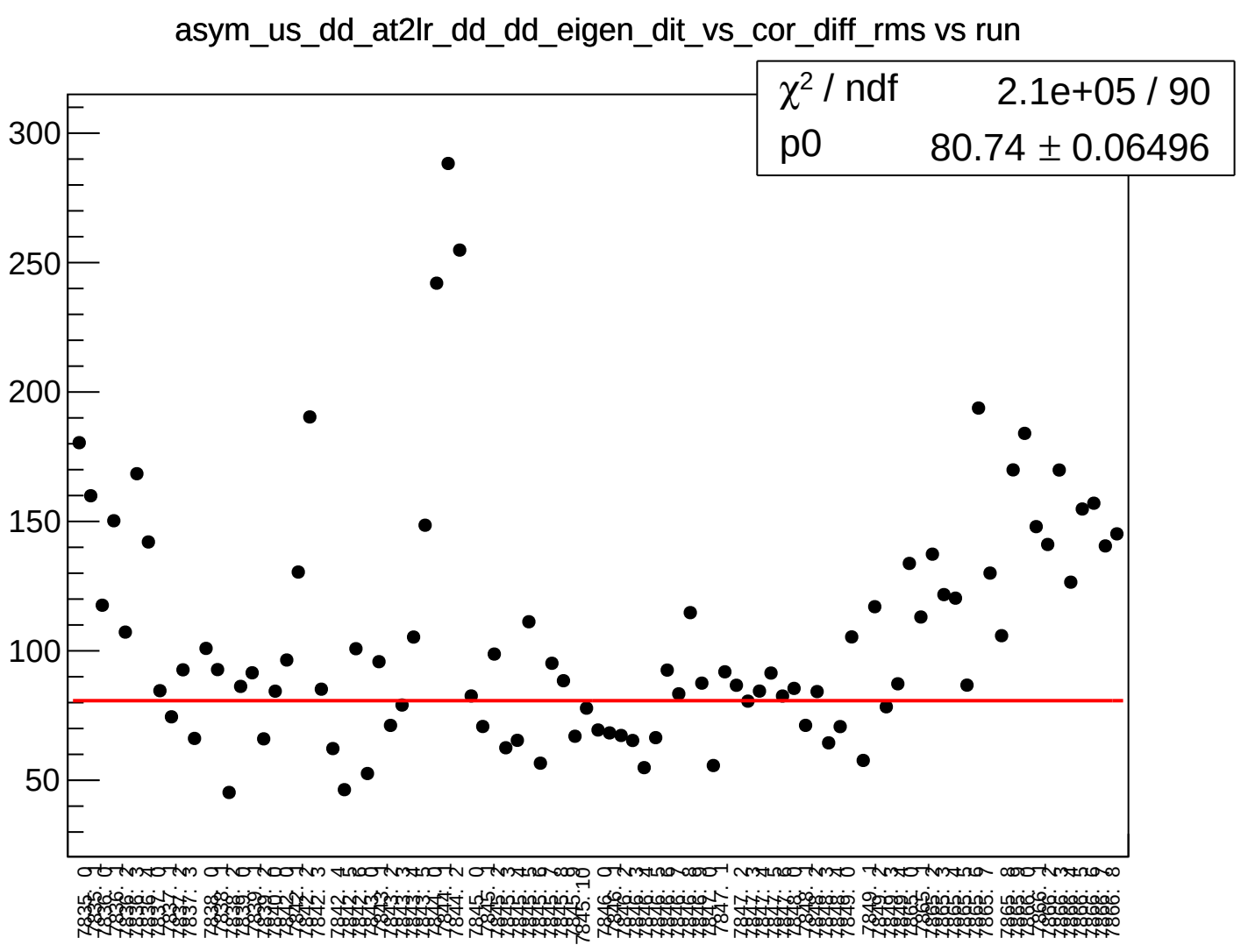

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.1e+05 / 90
p0 80.74 ± 0.06495
300
250
200
150
100
50

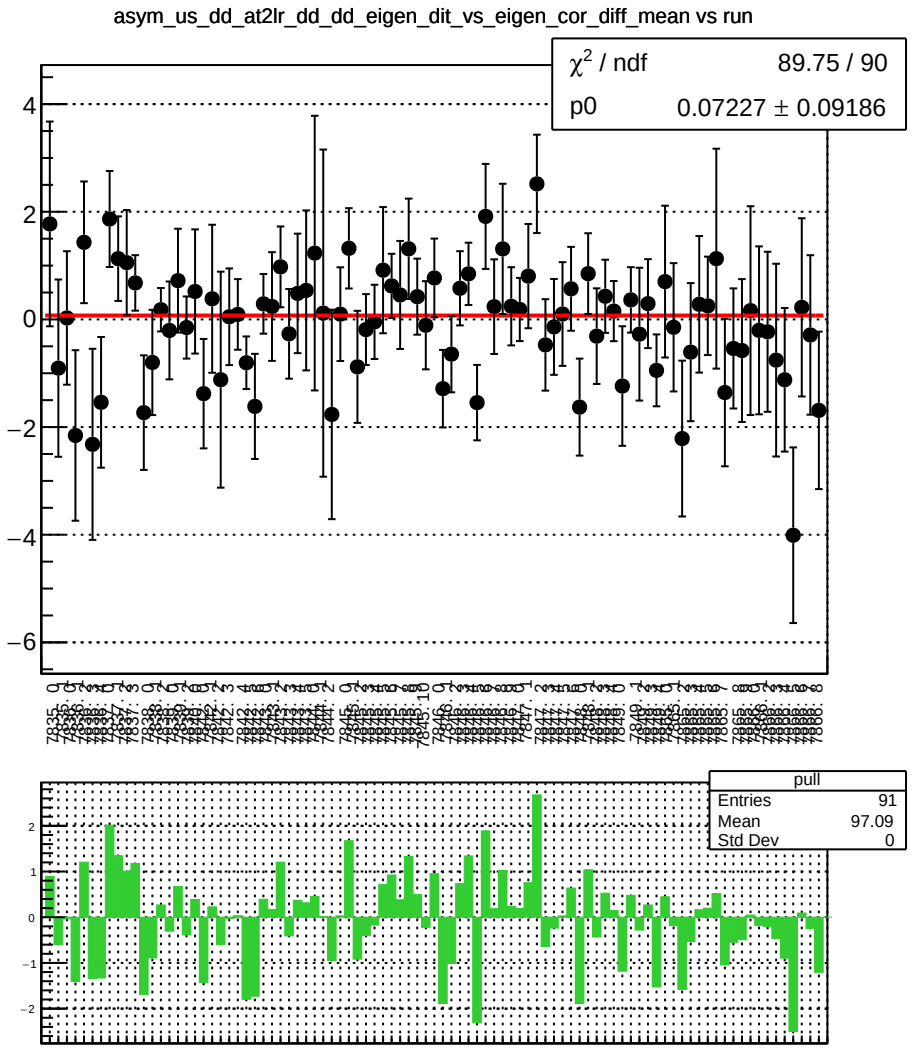

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.9 / 90
p0 6.09e−06 ± 3.539e−06
pull
Entries 91
Mean 533.9
Std Dev 0

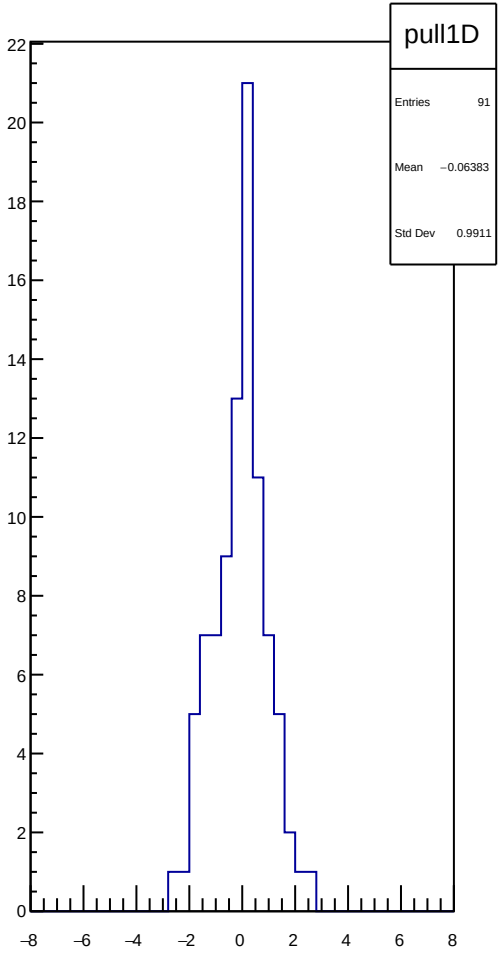

pull1D
Entries 91
Mean 0.01088
Std Dev 0.9192

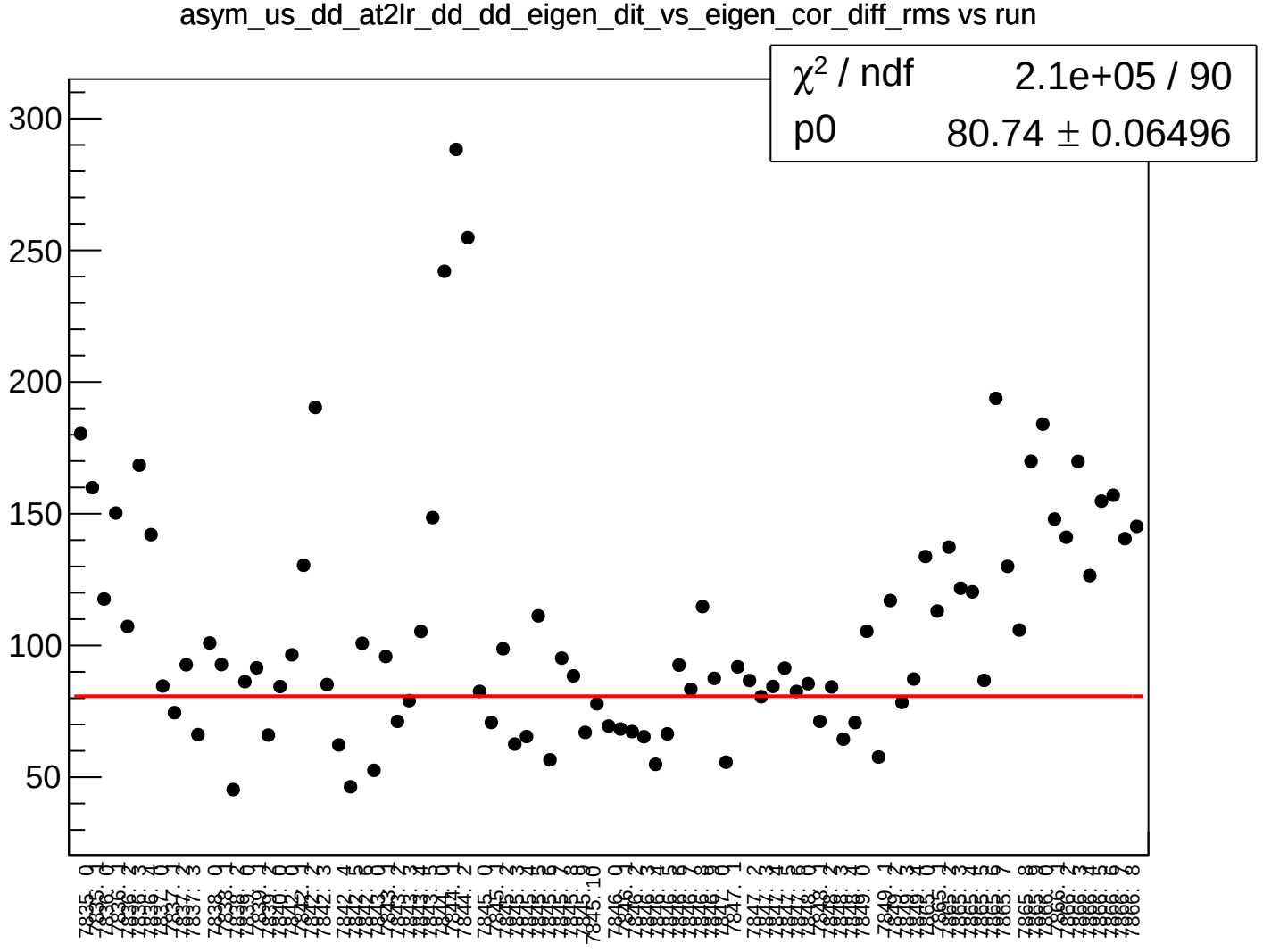

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.043e+05 / 90
p0 0.003215 ± 2.502e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

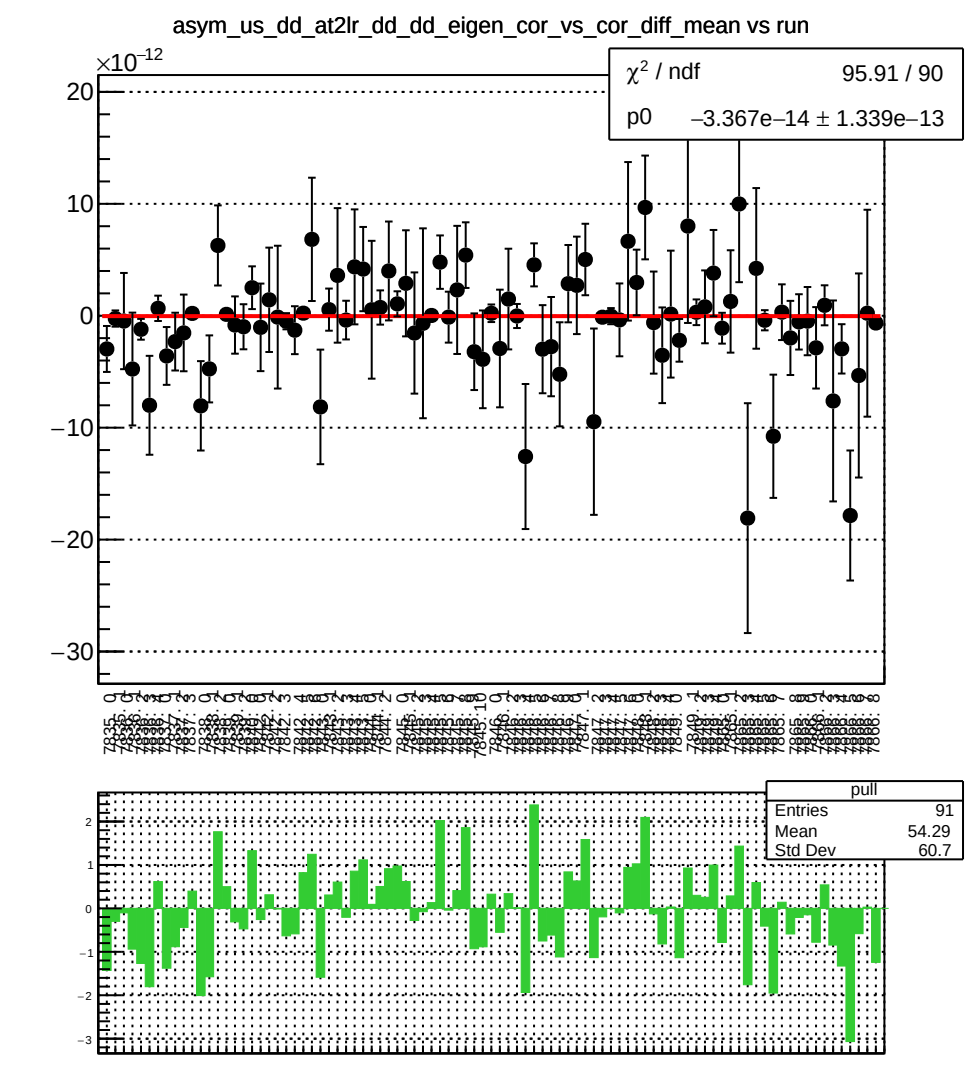

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.75 / 90
p0 0.07227 ± 0.09186
pull
Entries 91
Mean 97.09
Std Dev 0
pull1D
Entries 91
Mean −0.06383
Std Dev 0.9911

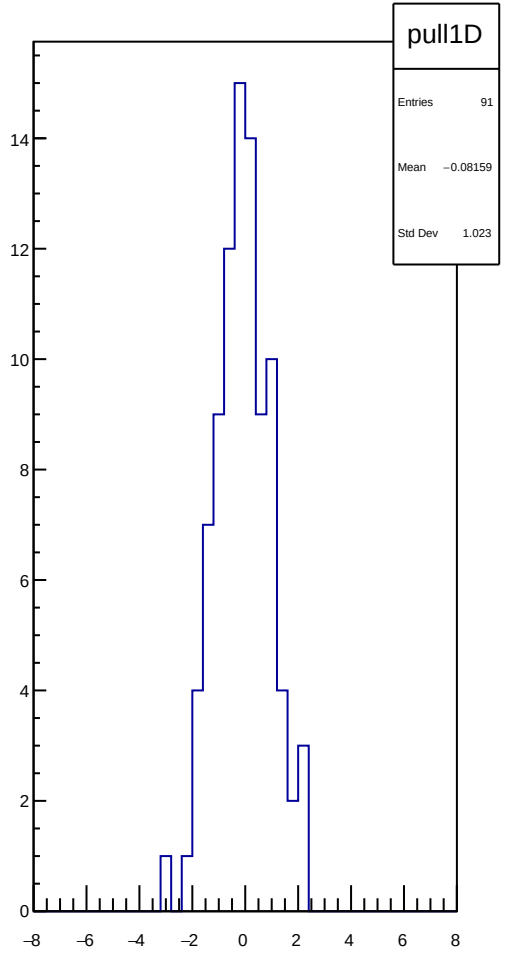

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.1e+05 / 90
p0 80.74 ± 0.06496
300
250
200
150
100
50

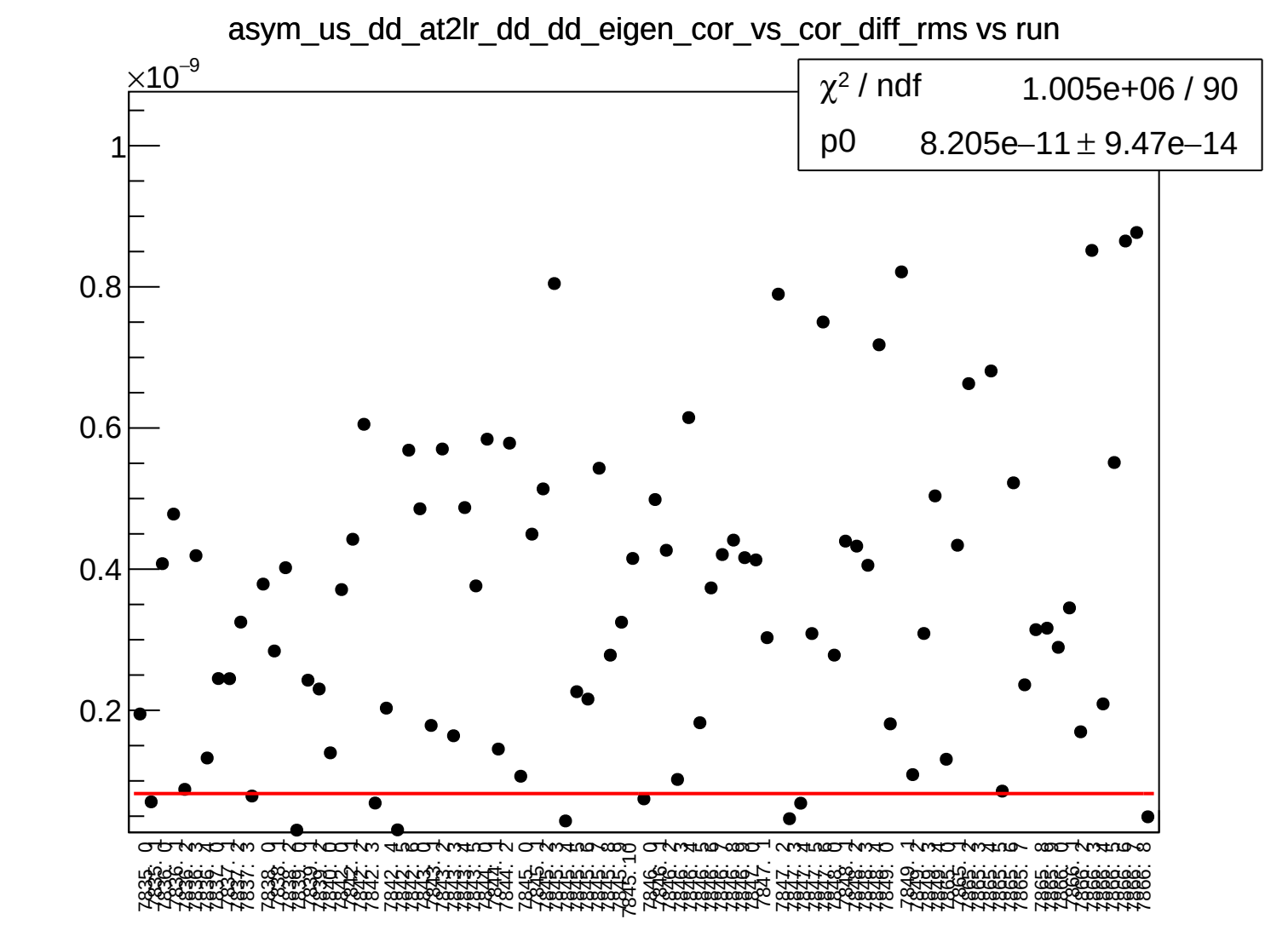

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.75 / 90
p0 0.07227 ± 0.09186
pull
Entries 91
Mean 97.09
Std Dev 0

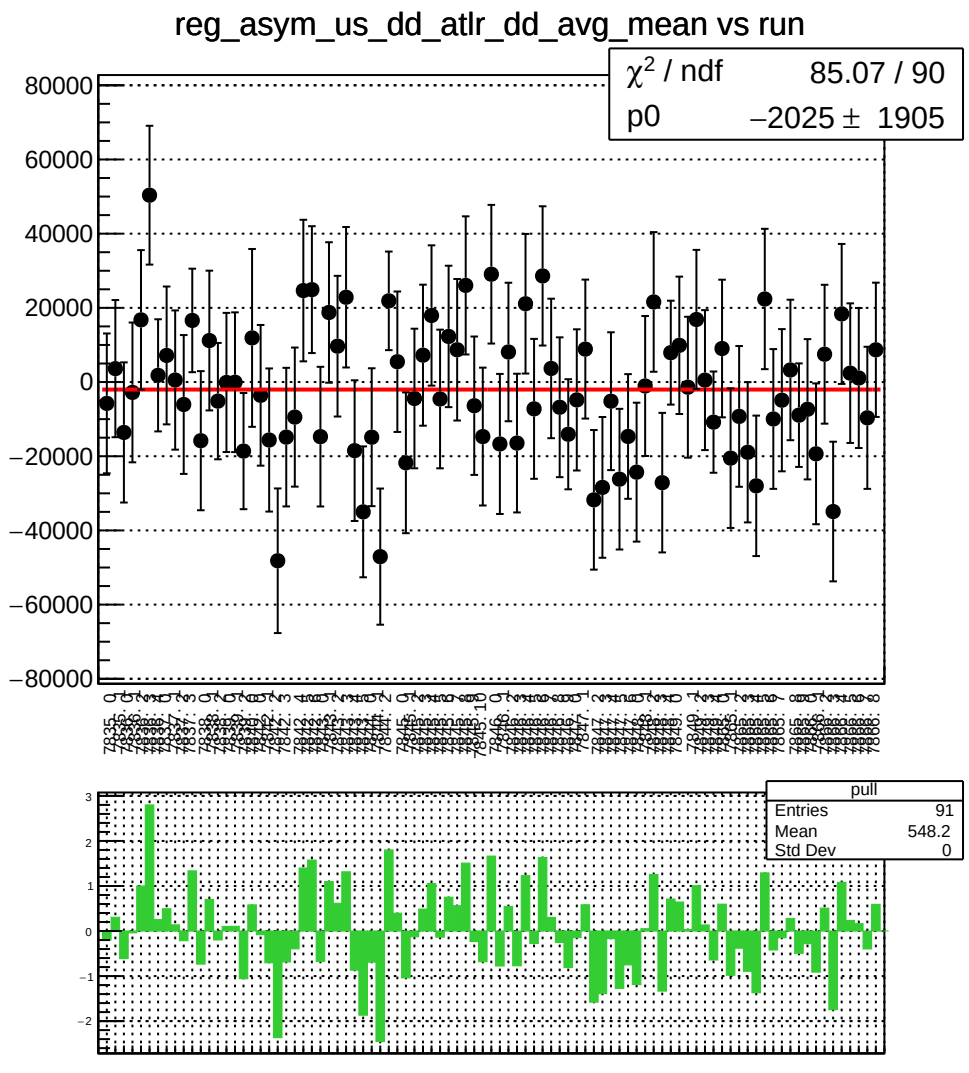

pull1D
Entries 91
Mean −0.06383
Std Dev 0.9911

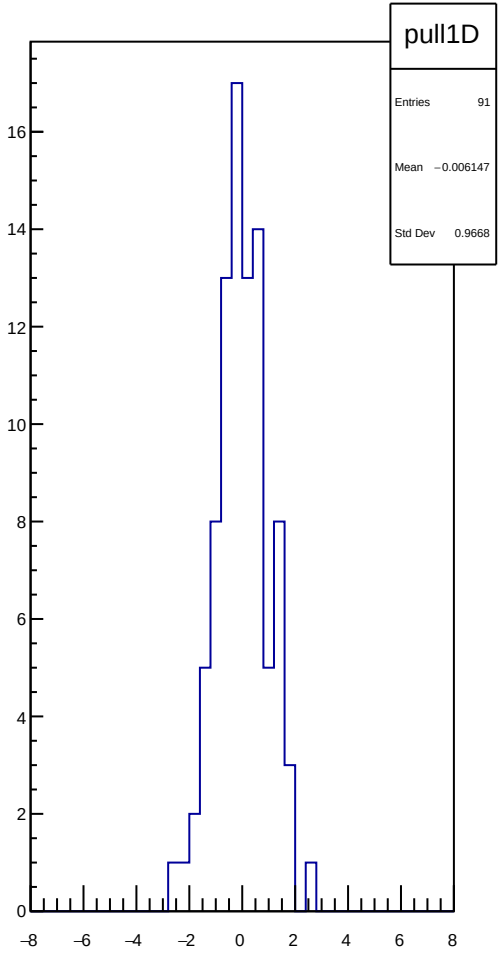

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.1e+05 / 90
p0 80.74 ± 0.06496
300
250
200
150
100
50

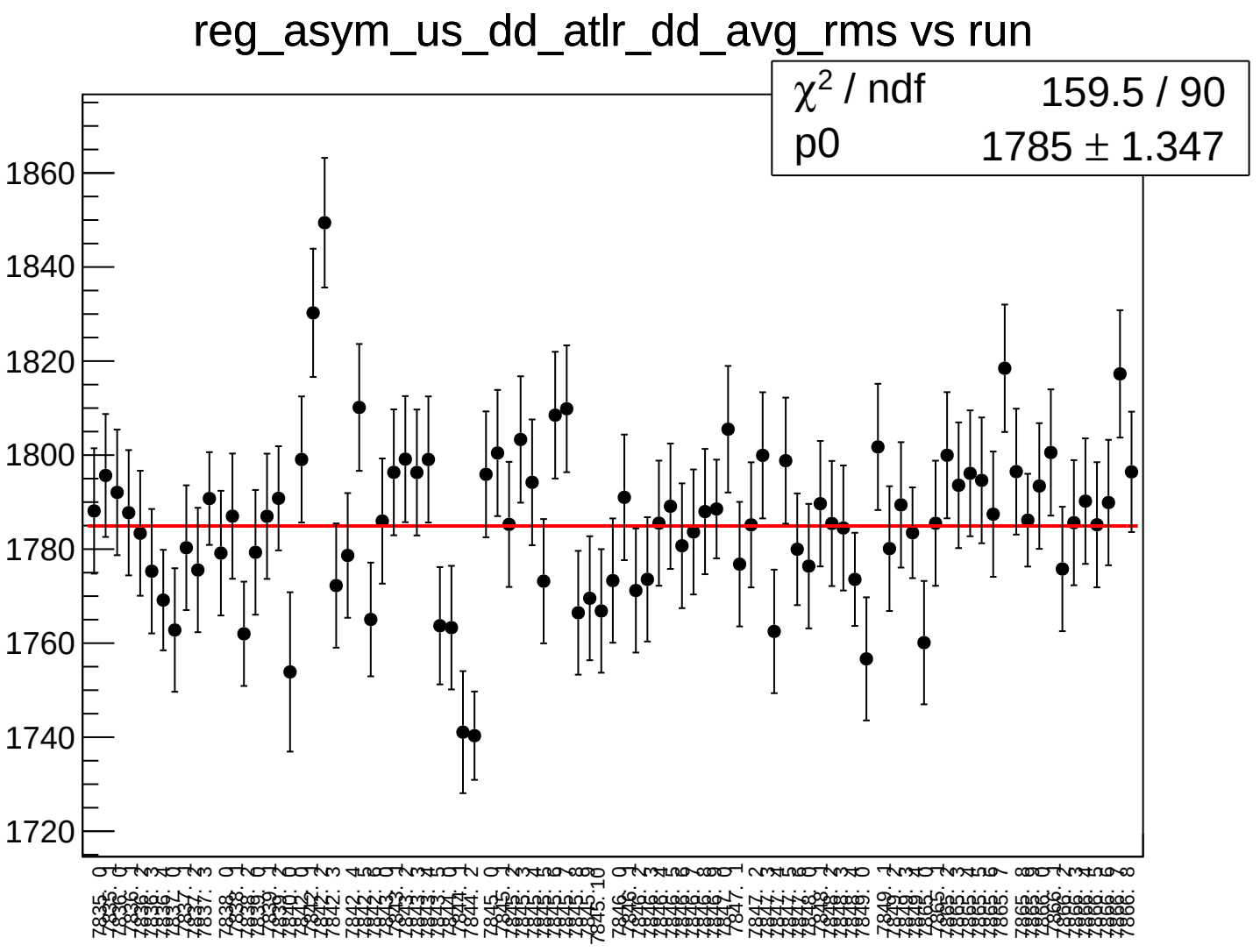

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.91 / 90
p0 −3.367e−14 ± 1.339e−13
pull
Entries 91
Mean 54.29
Std Dev 60.7

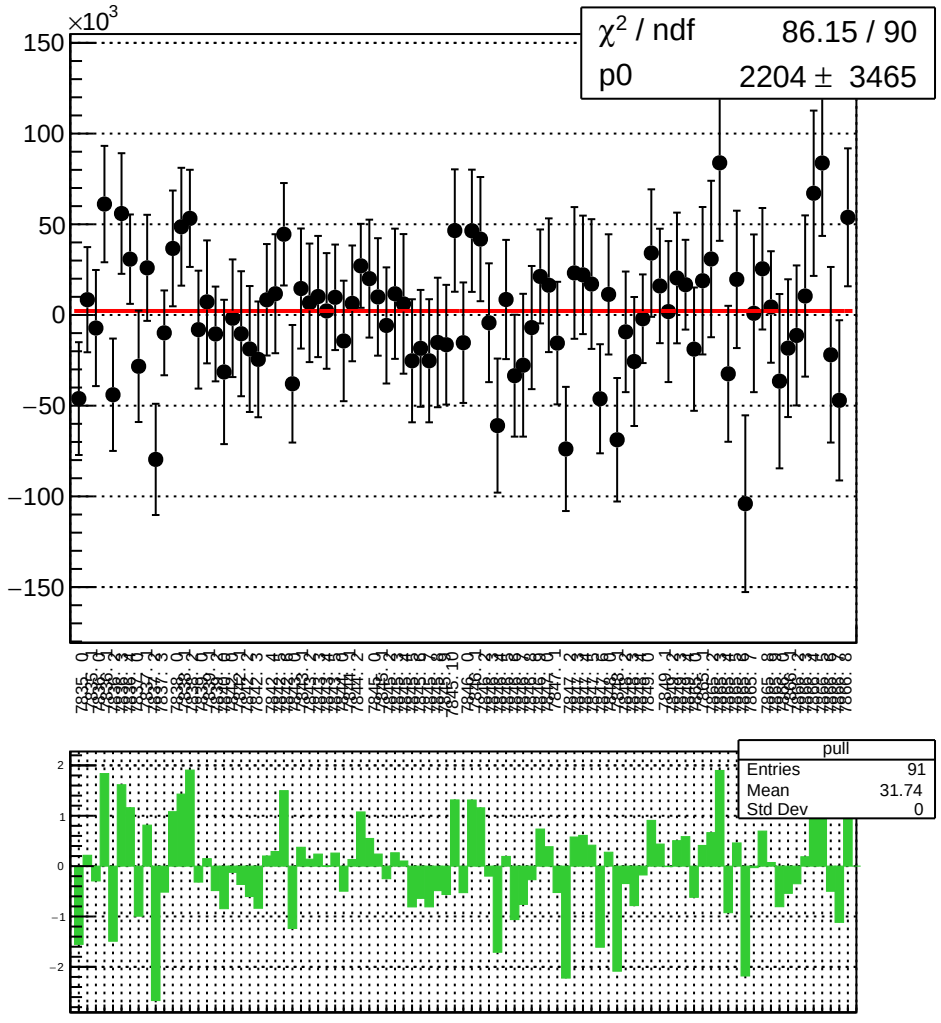

pull1D
Entries 91
Mean −0.08159
Std Dev 1.023

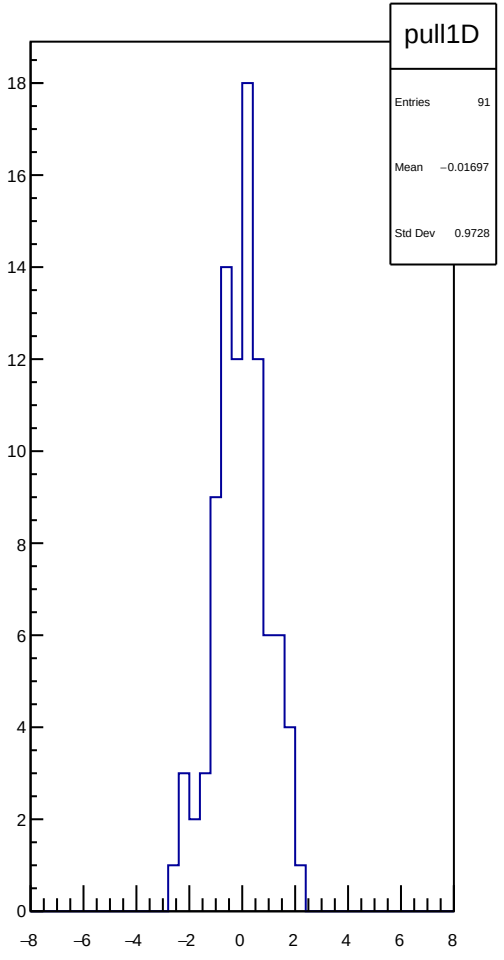

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.005e+06 / 90
p0 8.205e−11 ± 9.47e−14
1
0.8
0.6
0.4
0.2

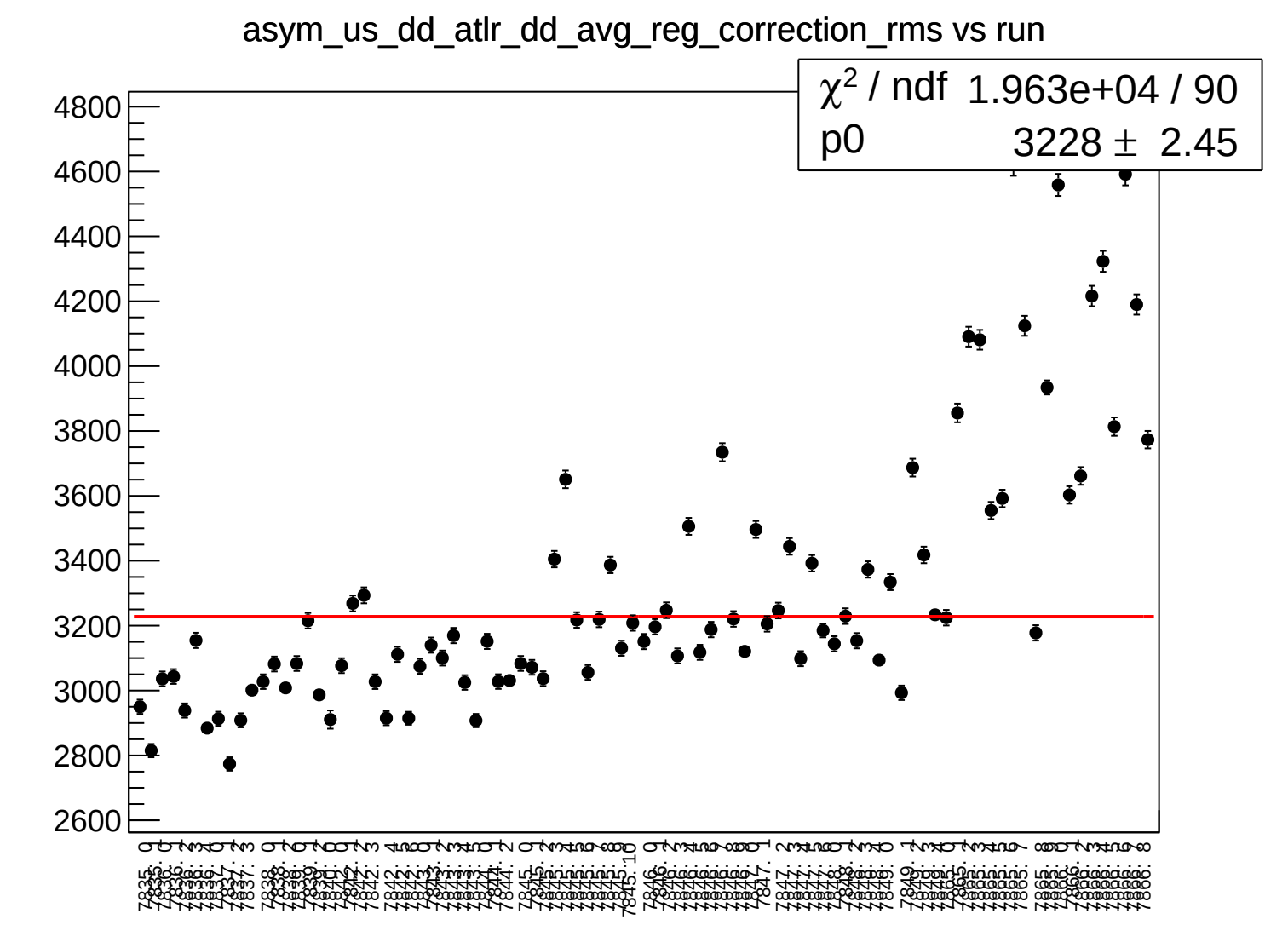

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.07 / 90
p0 −2025 ± 1905
pull
Entries 91
Mean 548.2
Std Dev 0

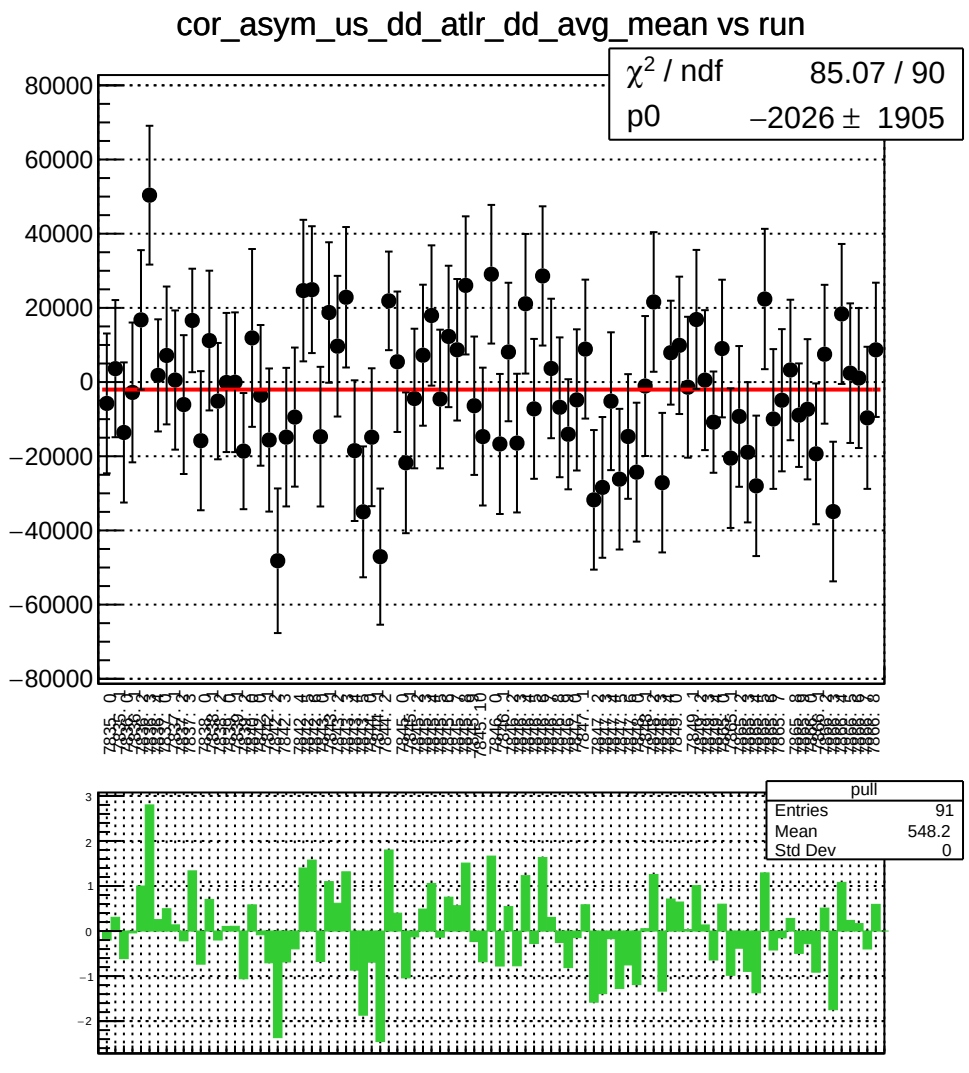

pull1D
Entries 91
Mean −0.006147
Std Dev 0.9668

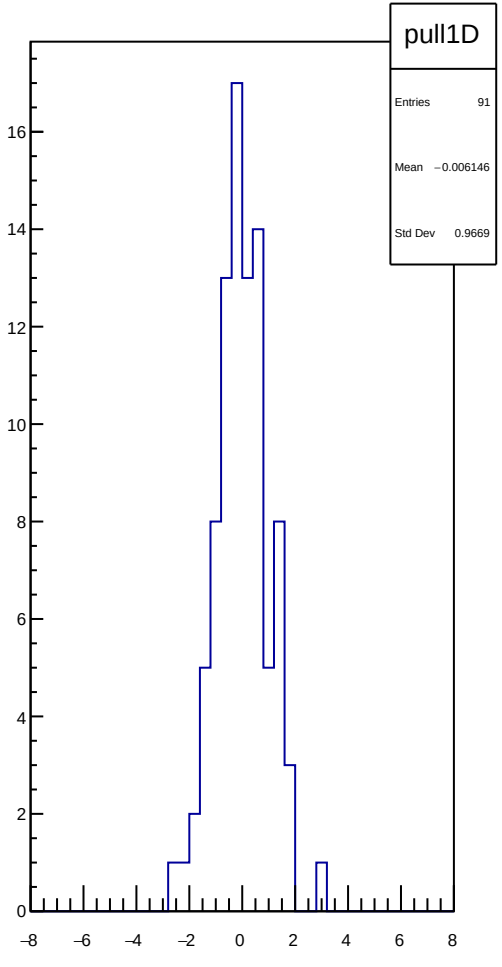

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 159.5 / 90
p0 1785 ± 1.347
1860
1840
1820
1800
1780
1760
1740
1720

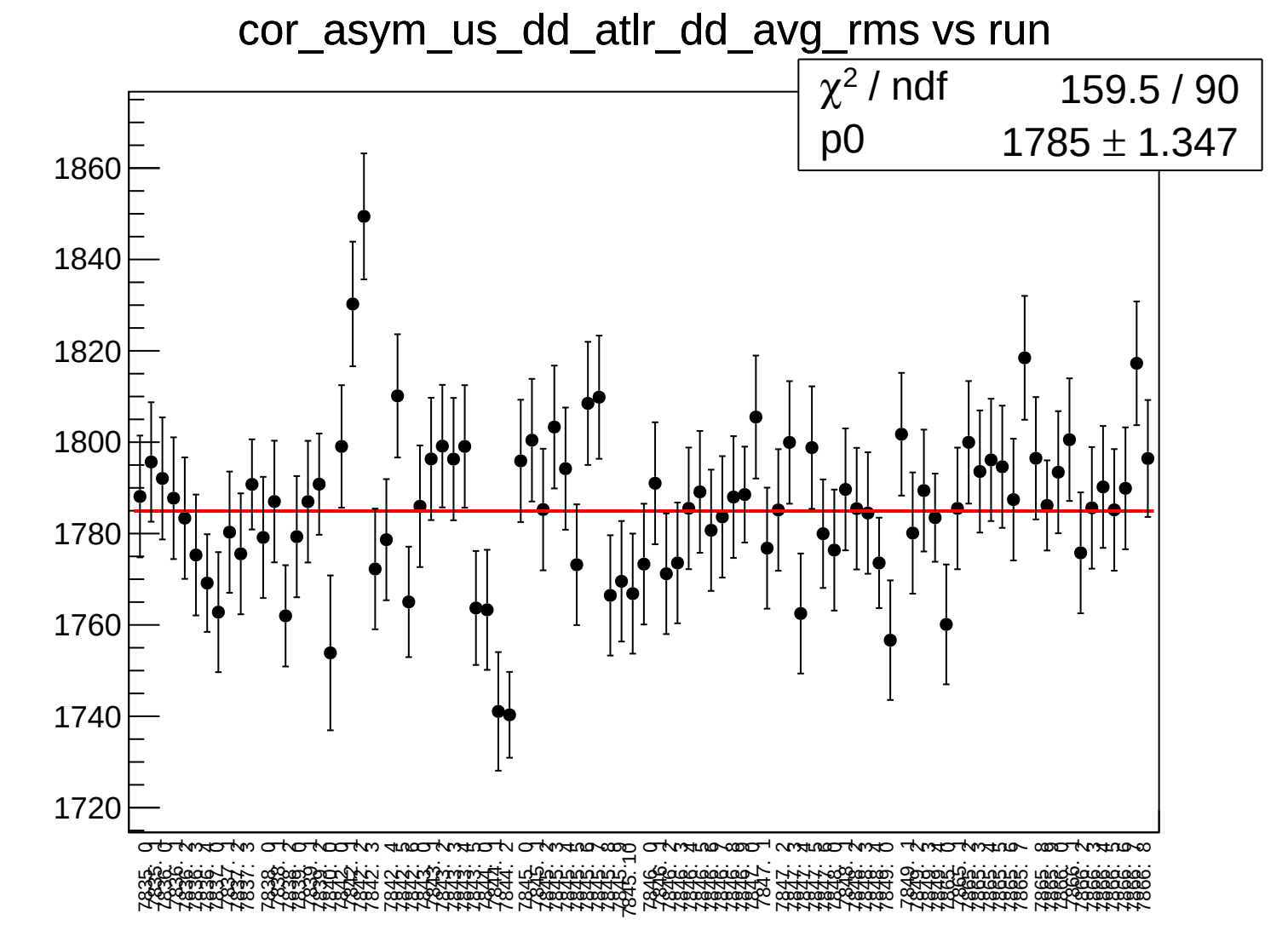

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.15 / 90
p0 2204 ± 3465
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 31.74
Std Dev 0
2
1
0
−1
−2

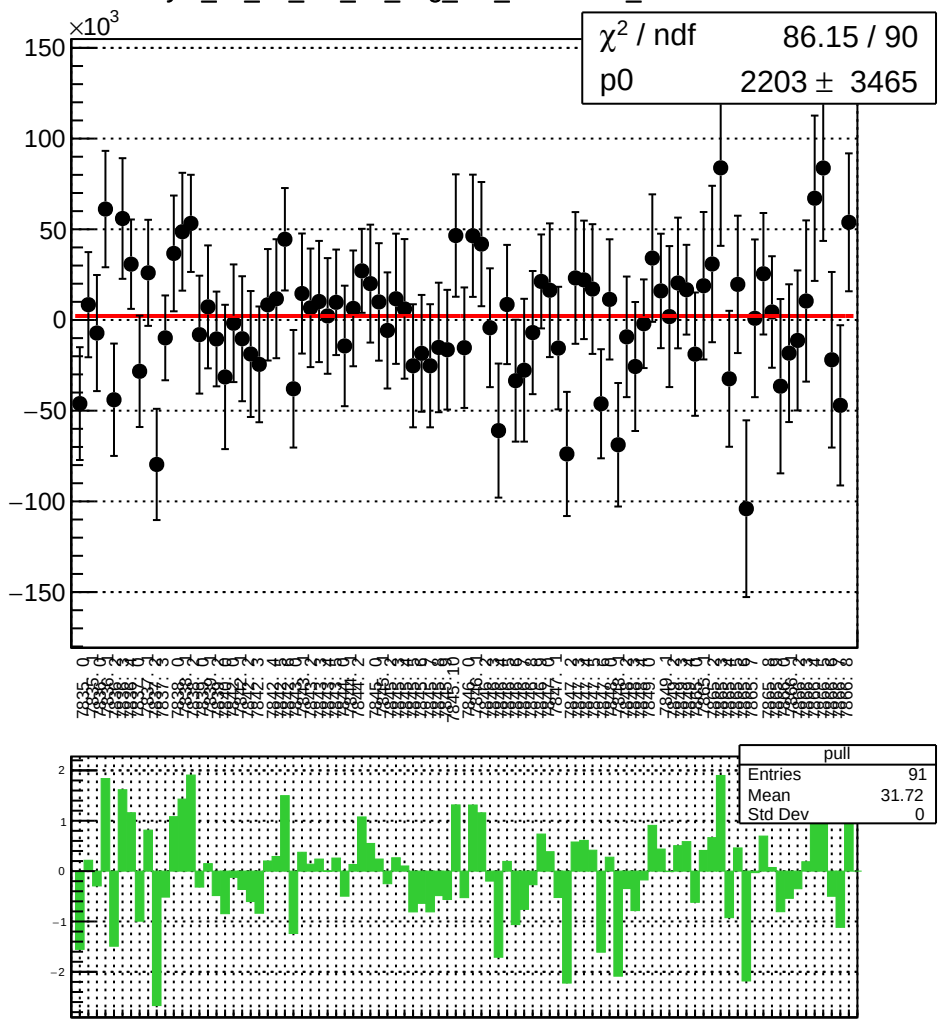

pull1D
Entries 91
Mean −0.01697
Std Dev 0.9728
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

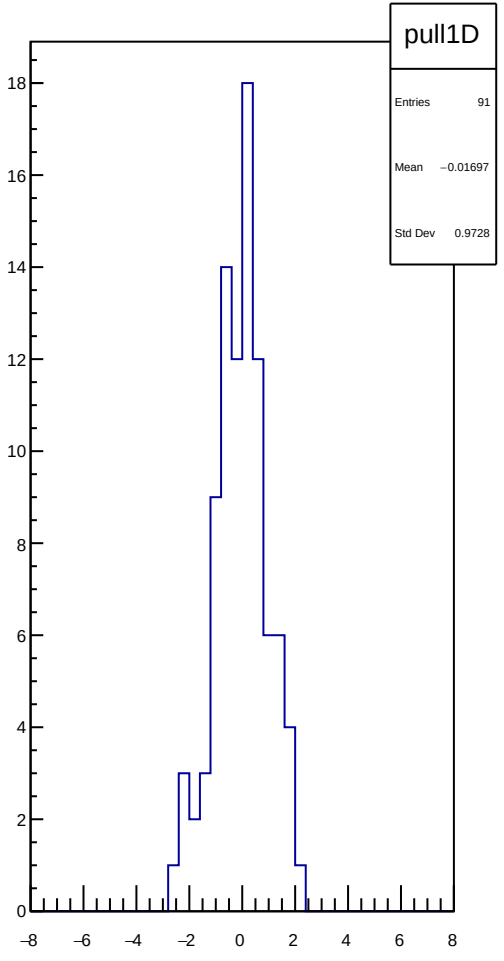

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.963e+04 / 90
p0 3228 ± 2.45
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

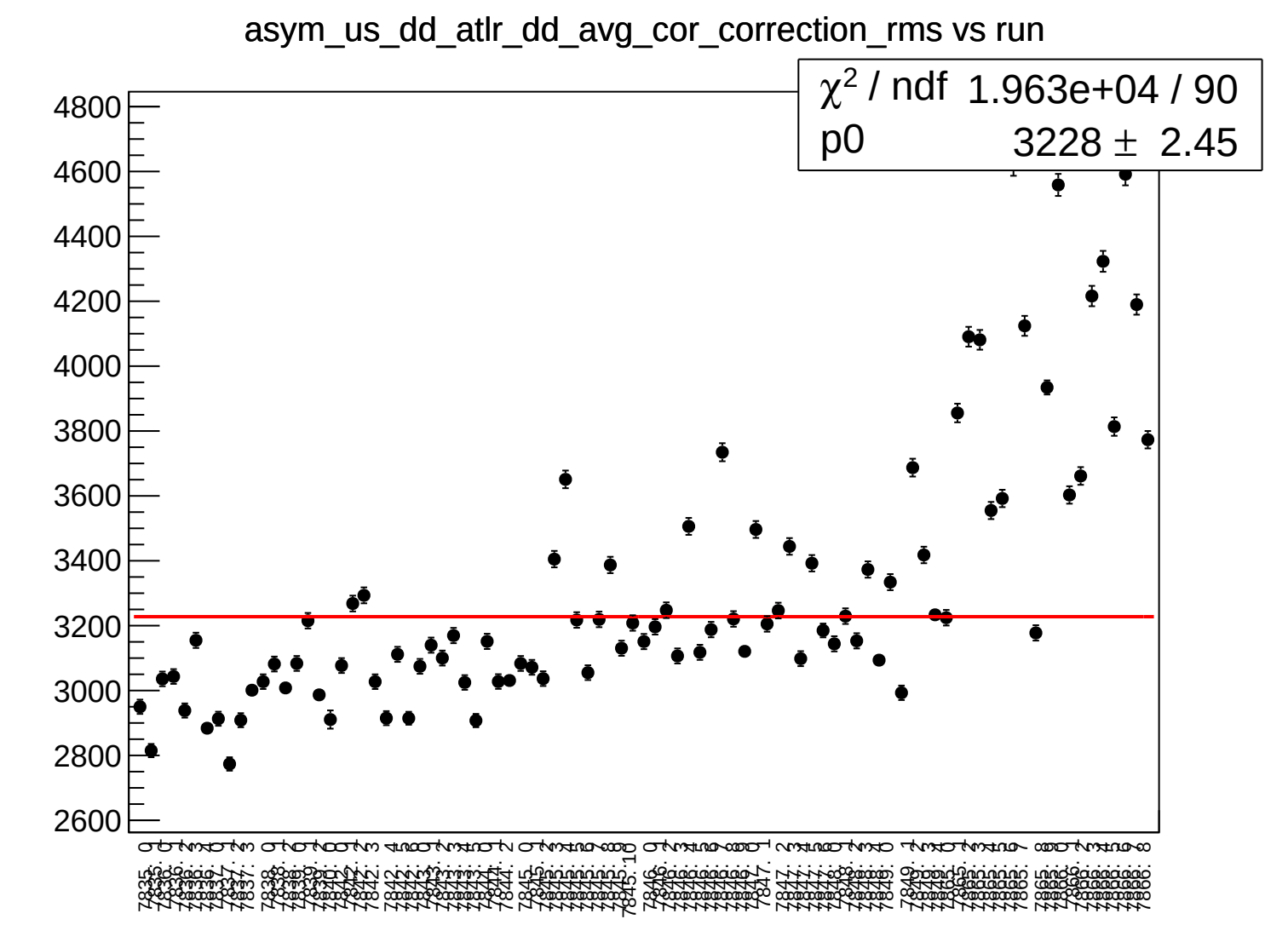

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.07 / 90
p0 −2026 ± 1905
pull
Entries 91
Mean 548.2
Std Dev 0

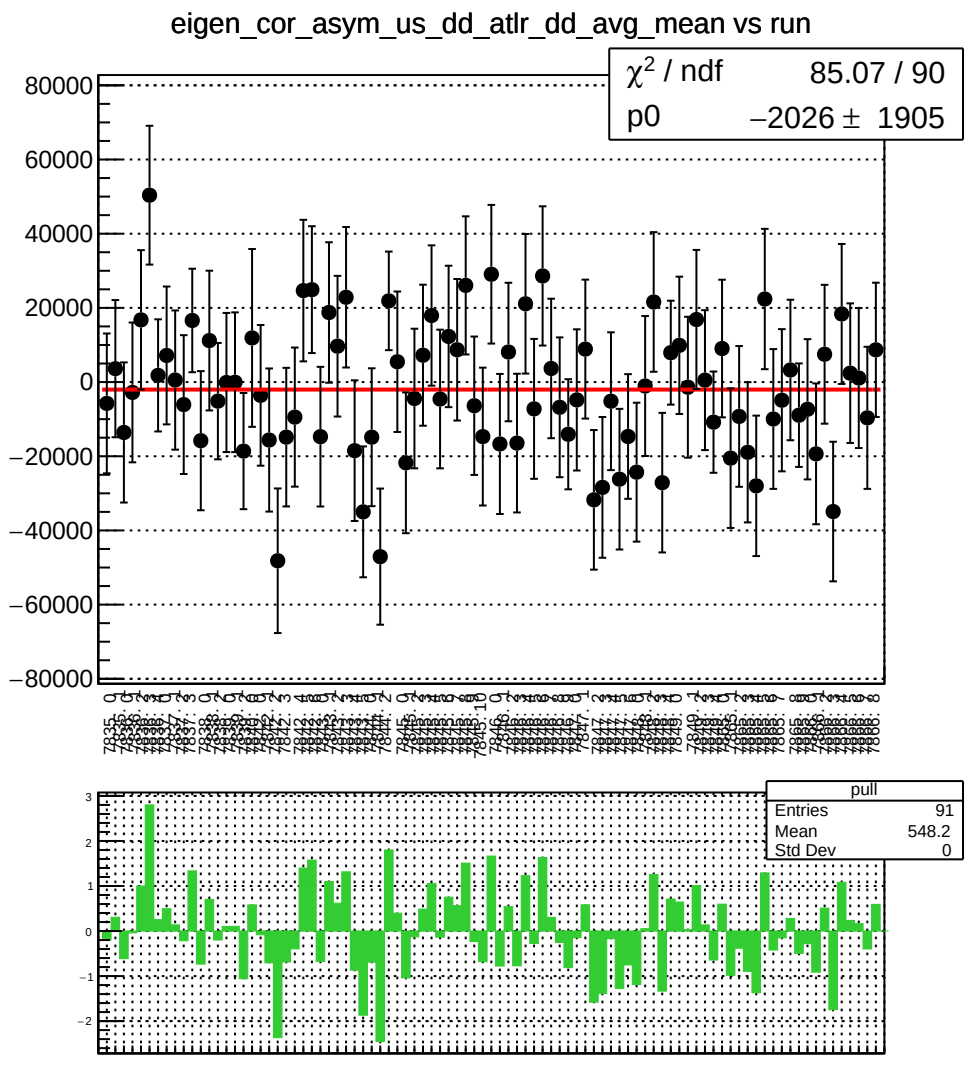

pull1D
Entries 91
Mean −0.006146
Std Dev 0.9669

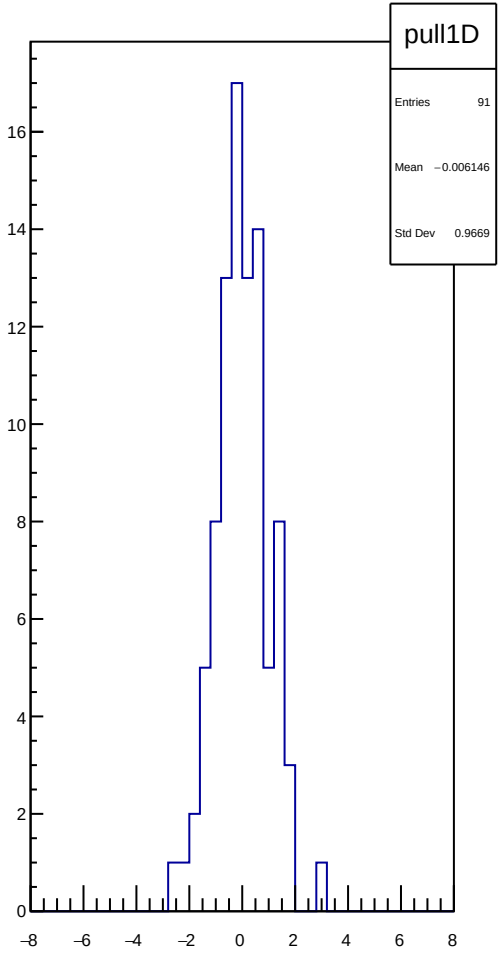

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 159.5 / 90
p0 1785 ± 1.347
1860
1840
1820
1800
1780
1760
1740
1720

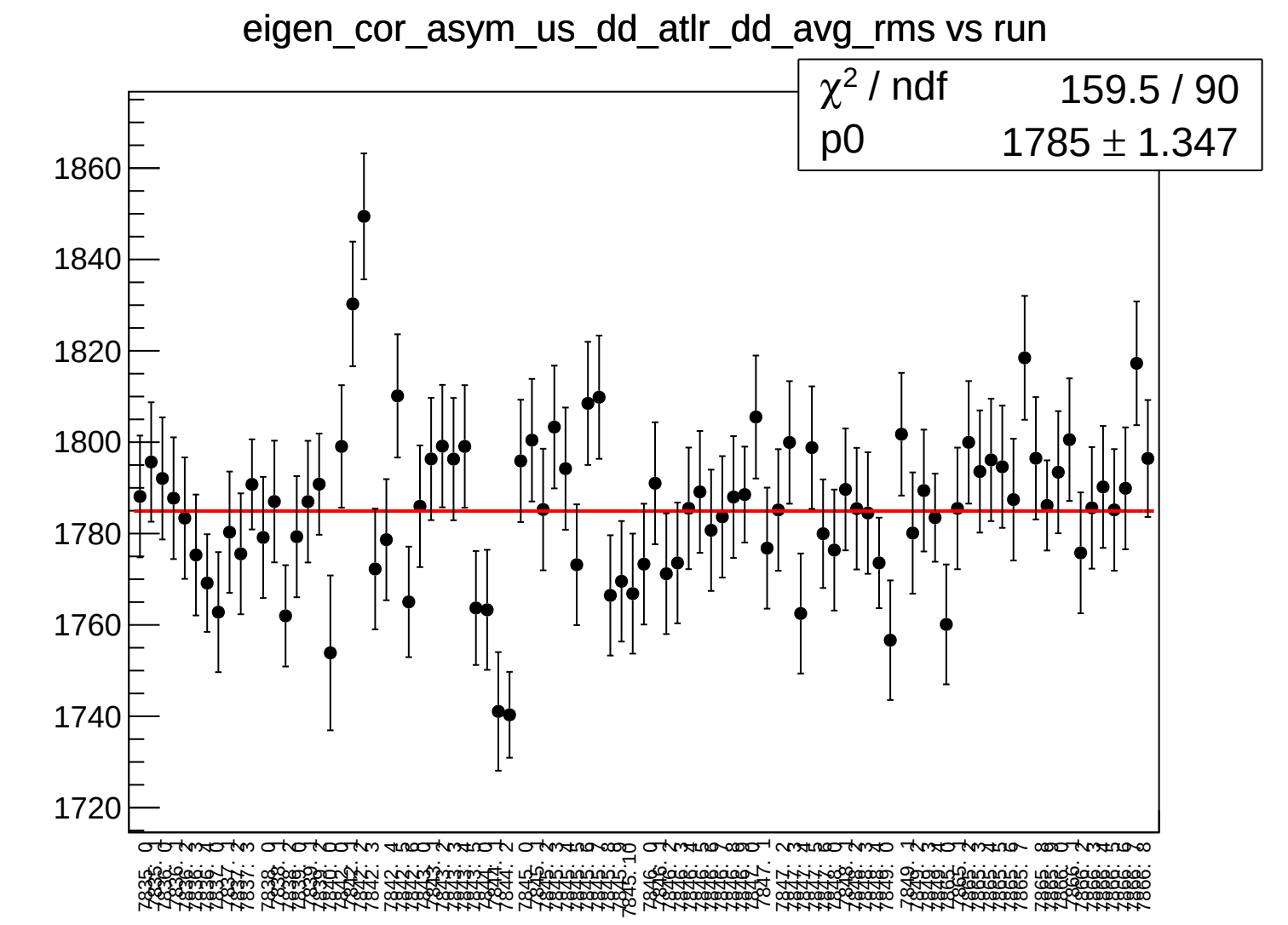

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.15 / 90
p0 2203 ± 3465
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 31.72
Std Dev 0
2
1
0
−1
−2

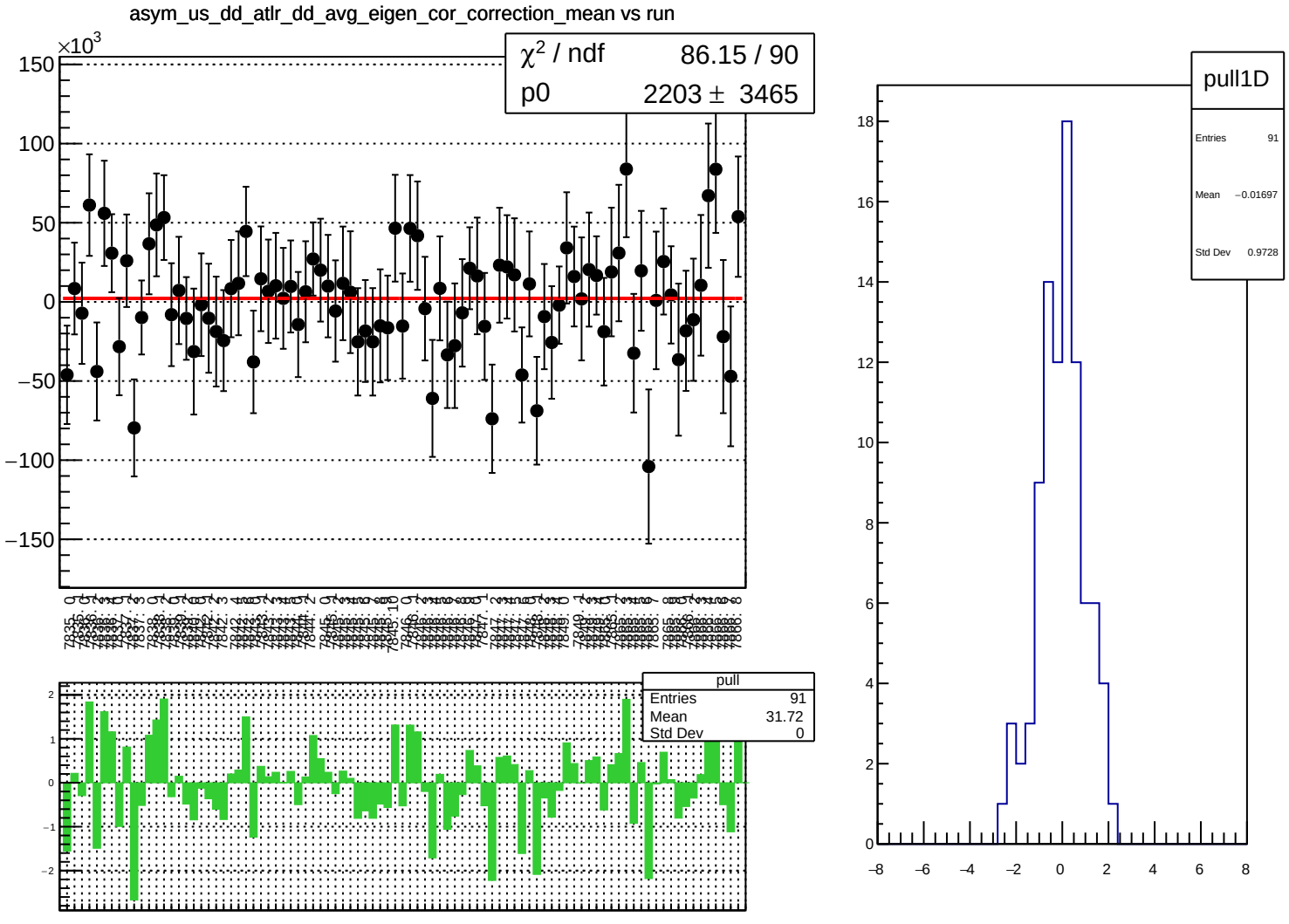

pull1D
Entries 91
Mean −0.01697
Std Dev 0.9728
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

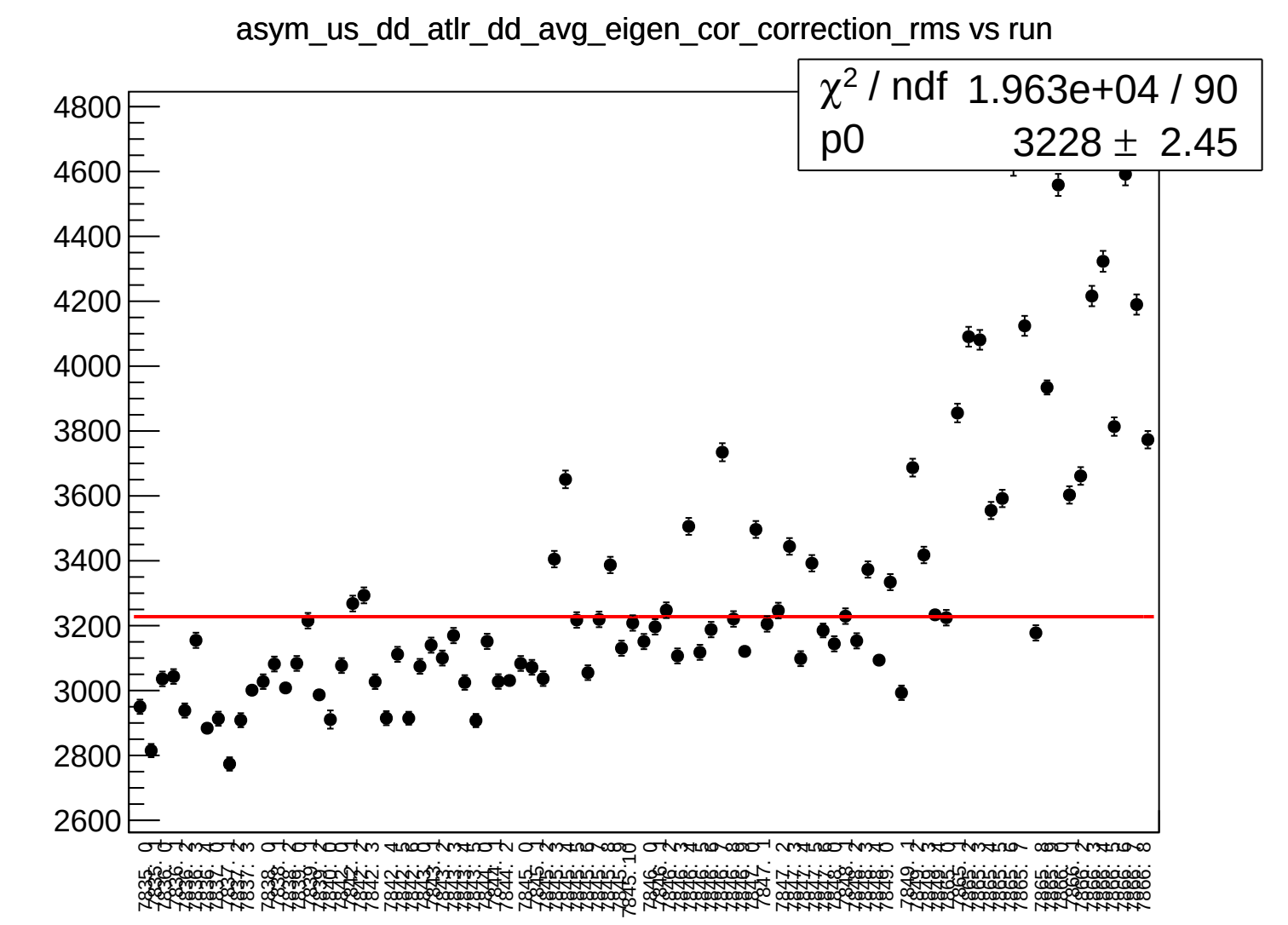

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 90
p0 3228 ± 2.45
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

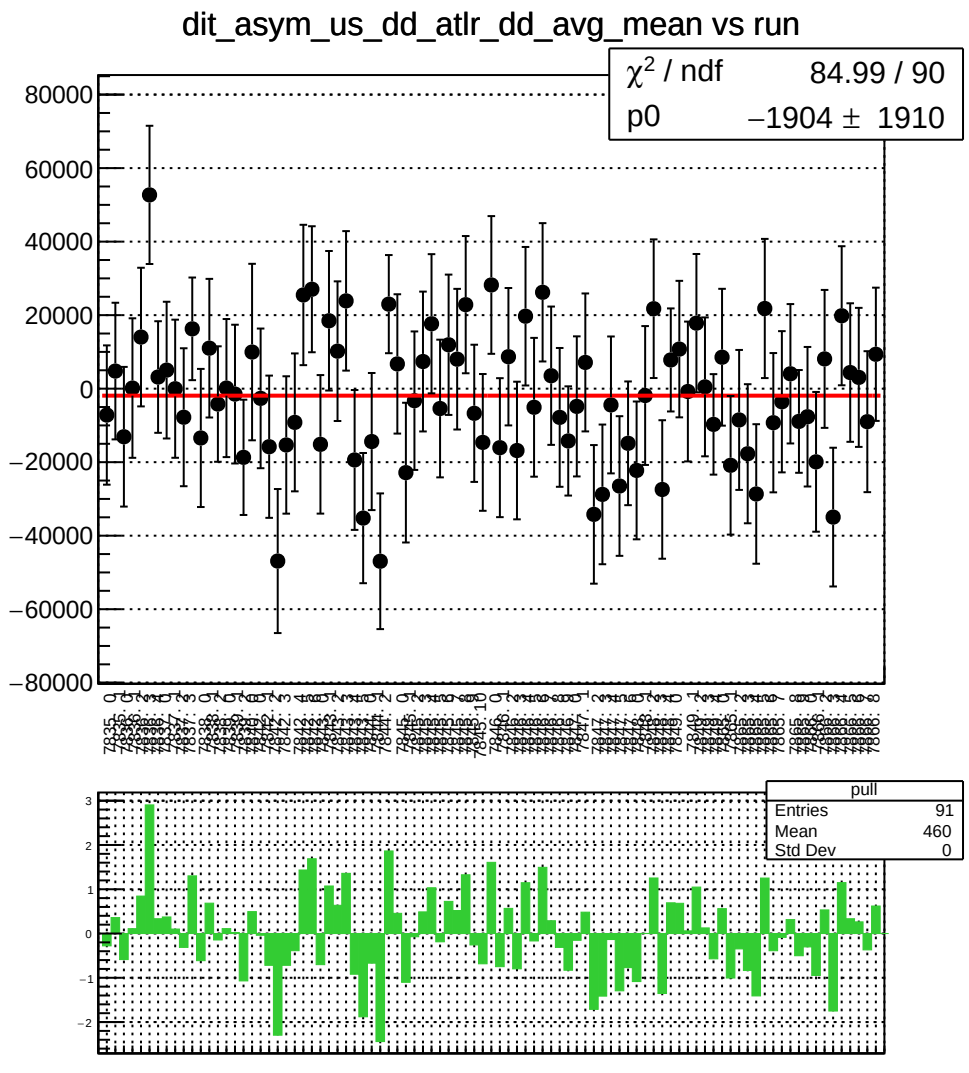

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.07 / 90
p0 −2026 ± 1905
pull
Entries 91
Mean 548.2
Std Dev 0

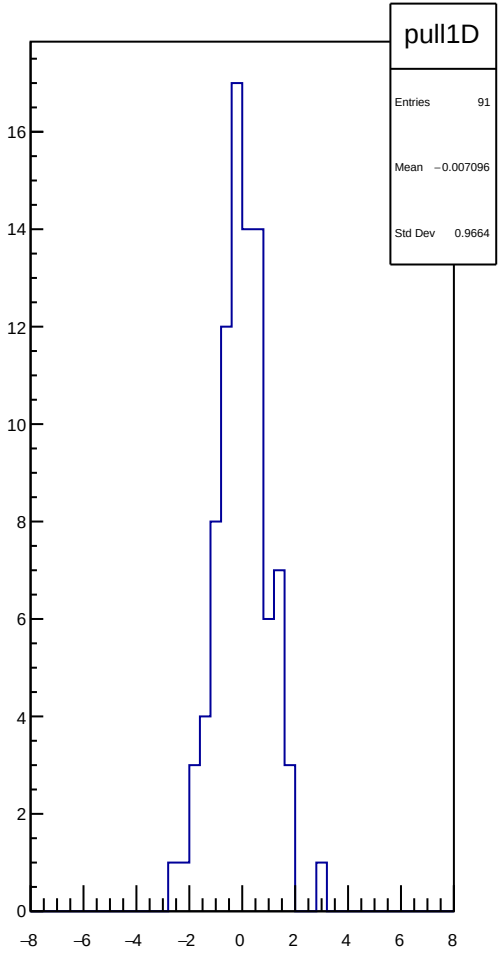

pull1D
Entries 91
Mean −0.006146
Std Dev 0.9669

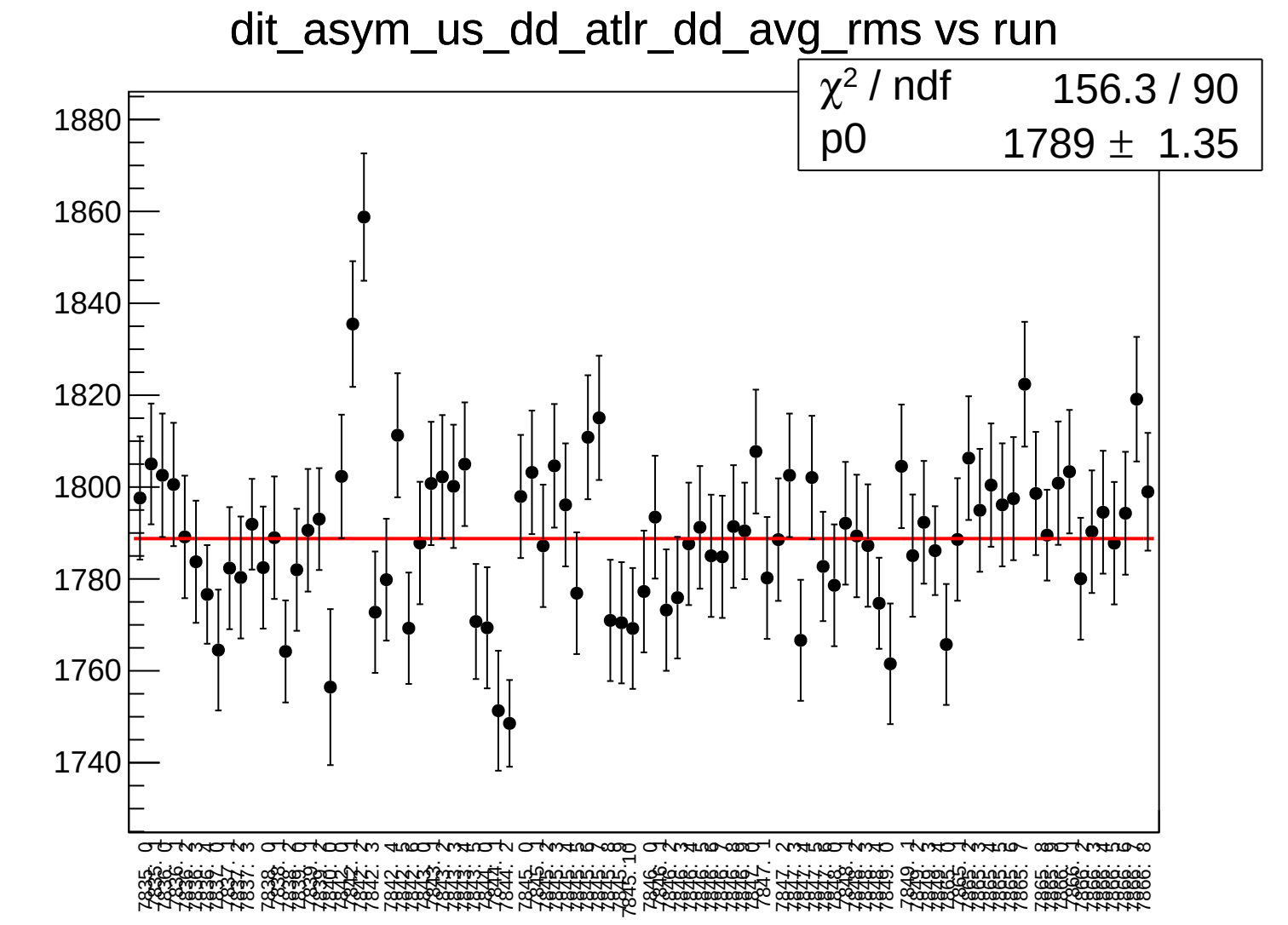

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 159.5 / 90
p0 1785 ± 1.347
1860
1840
1820
1800
1780
1760
1740
1720

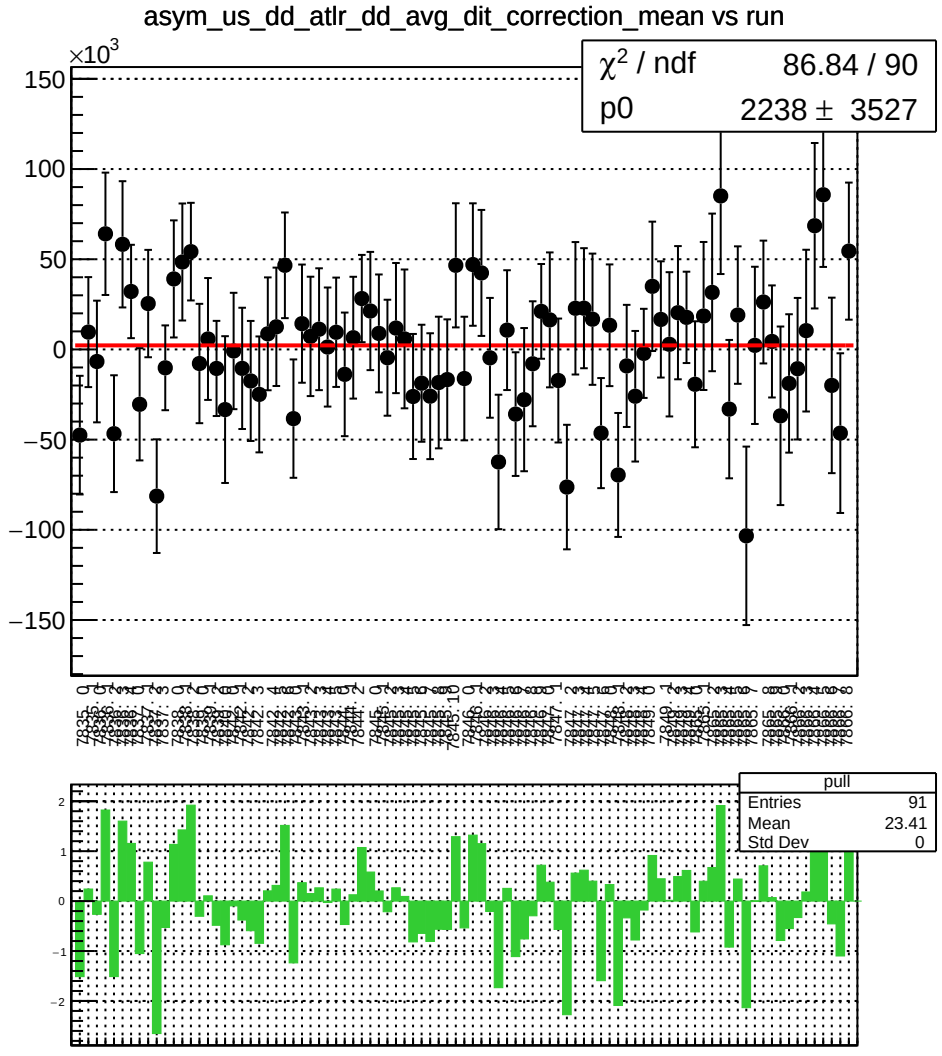

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.15 / 90
p0 2203 ± 3465
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 31.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01697
Std Dev 0.9728
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

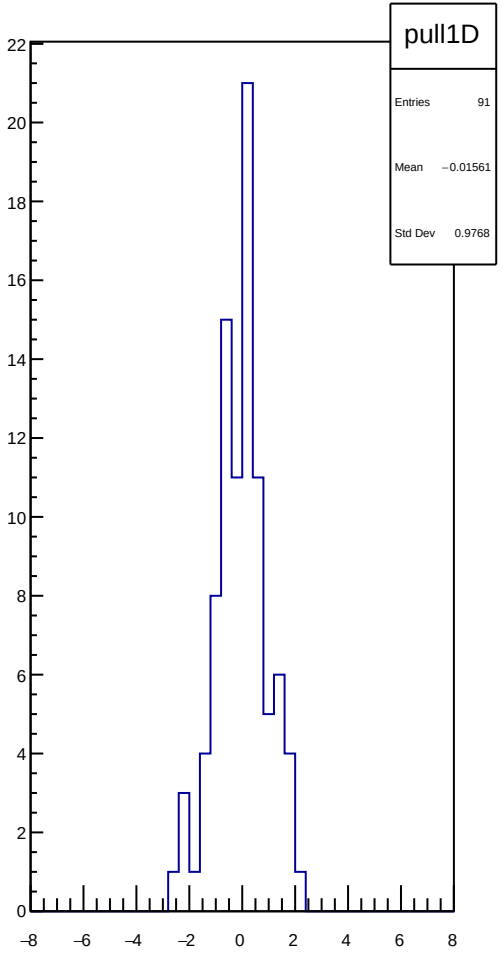

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 90
p0 3228 ± 2.45
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

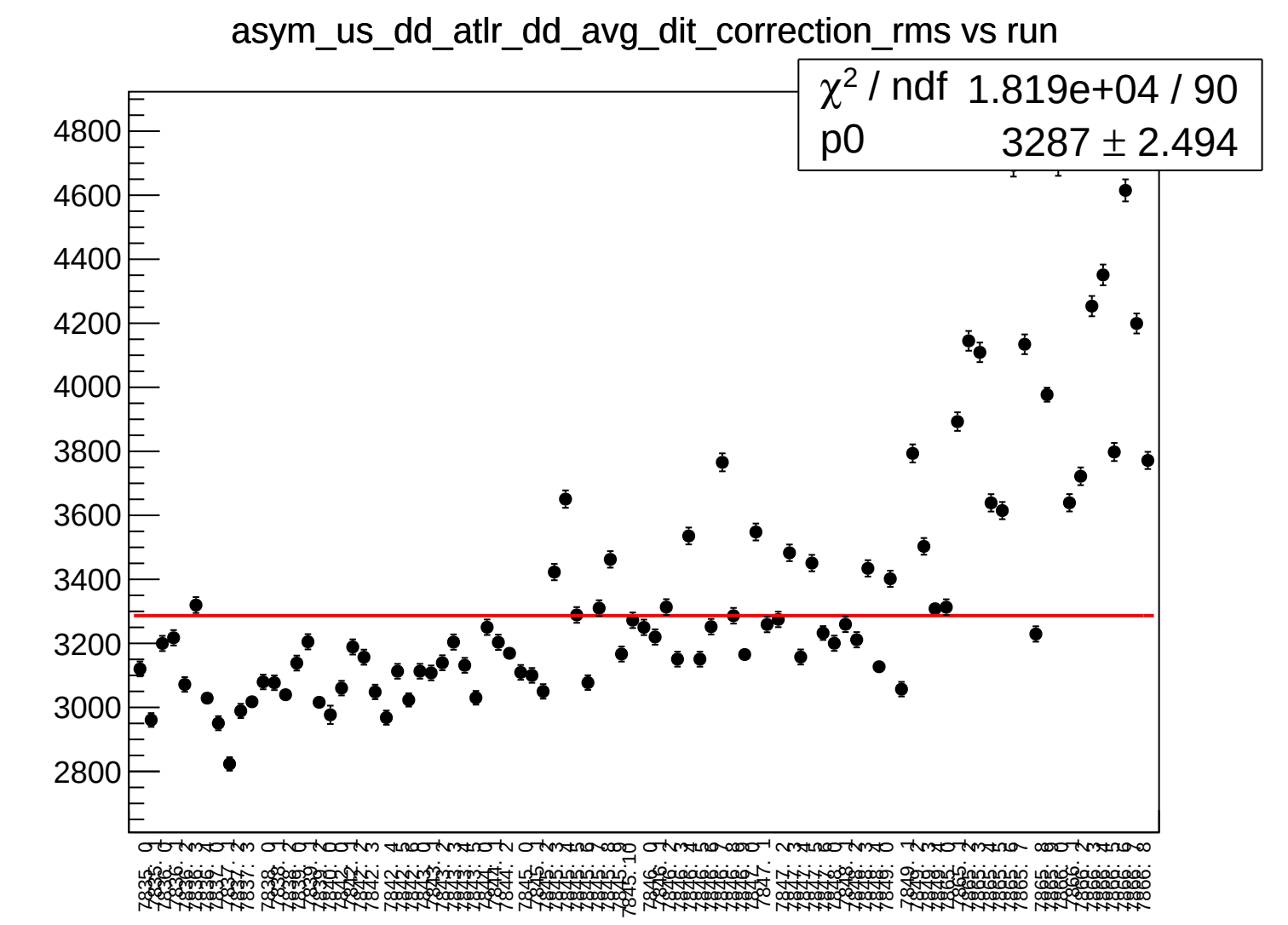

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.99 / 90
p0 −1904 ± 1910
pull
Entries 91
Mean 460
Std Dev 0

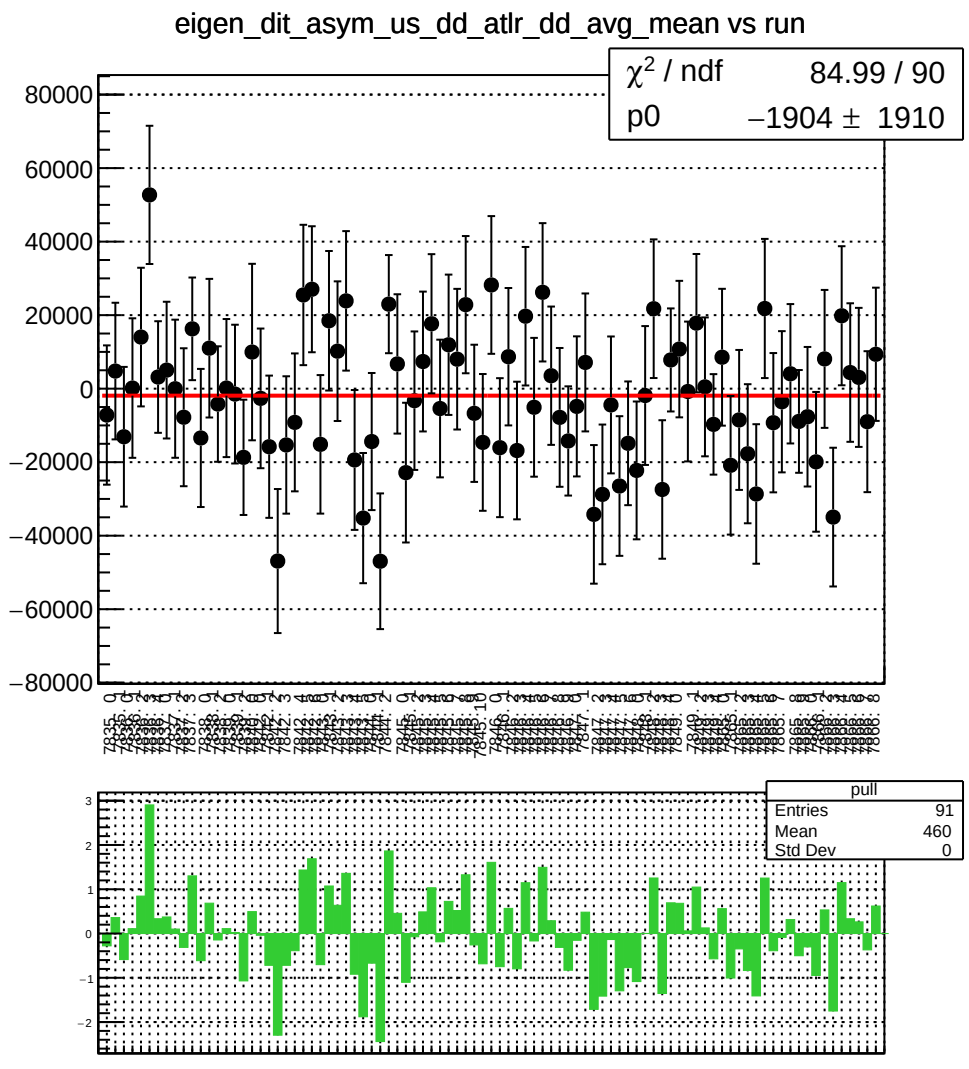

pull1D
Entries 91
Mean −0.007096
Std Dev 0.9664

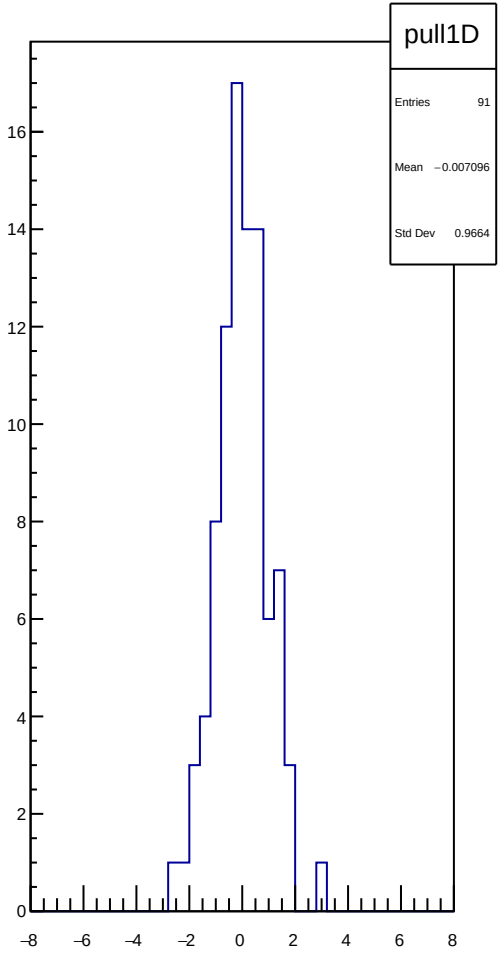

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 156.3 / 90
p0 1789 ± 1.35
1880
1860
1840
1820
1800
1780
1760
1740

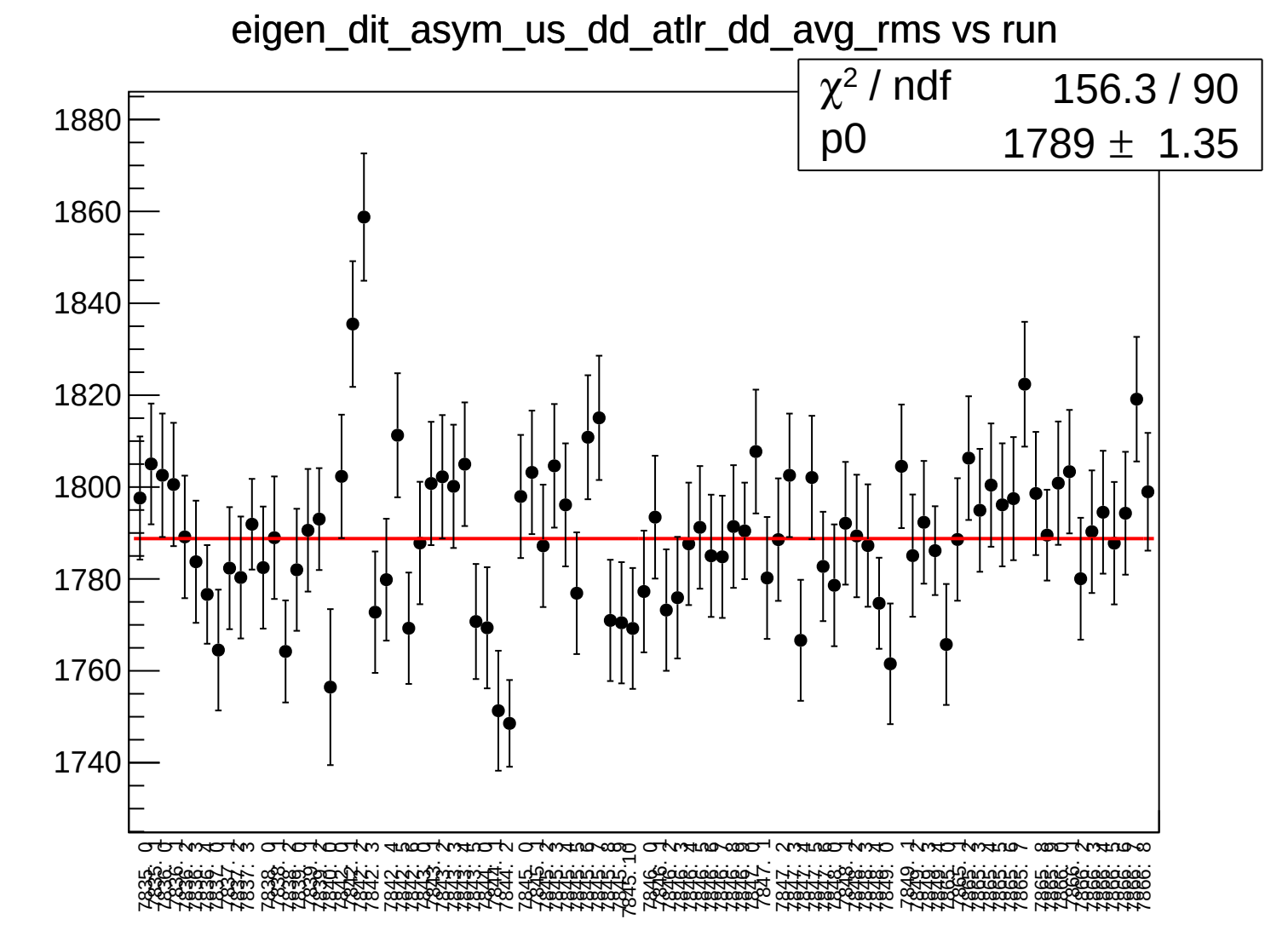

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.84 / 90
p0 2238 ± 3527
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 23.41
Std Dev 0
2
1
0
−1
−2

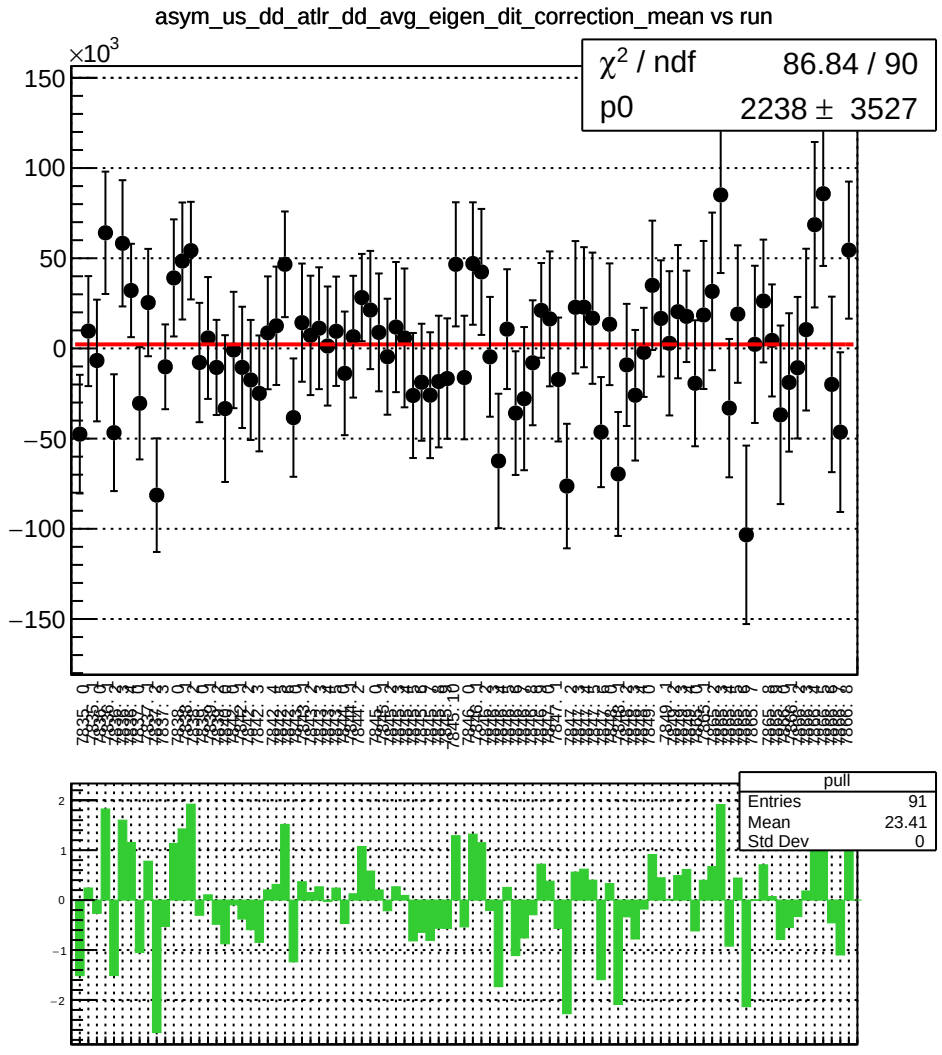

pull1D
Entries 91
Mean −0.01561
Std Dev 0.9768
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

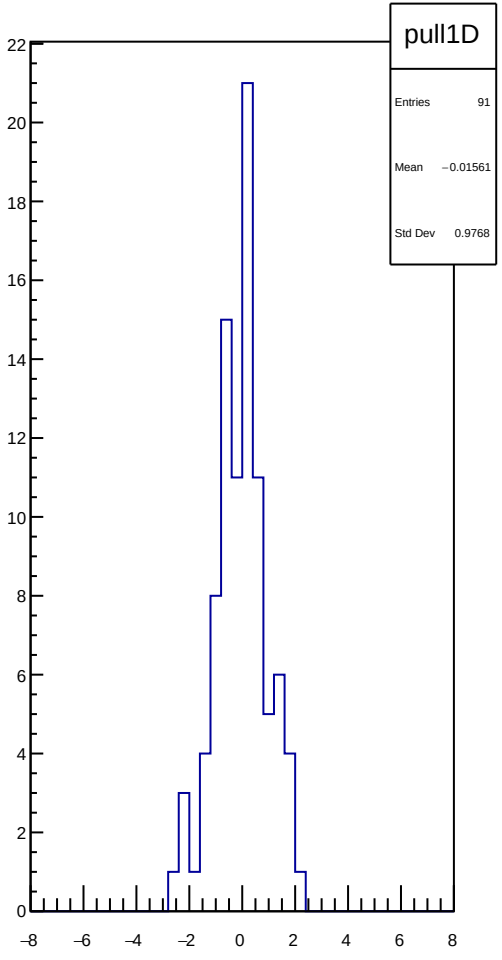

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 1.819e+04 / 90
p0 3287 ± 2.494
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

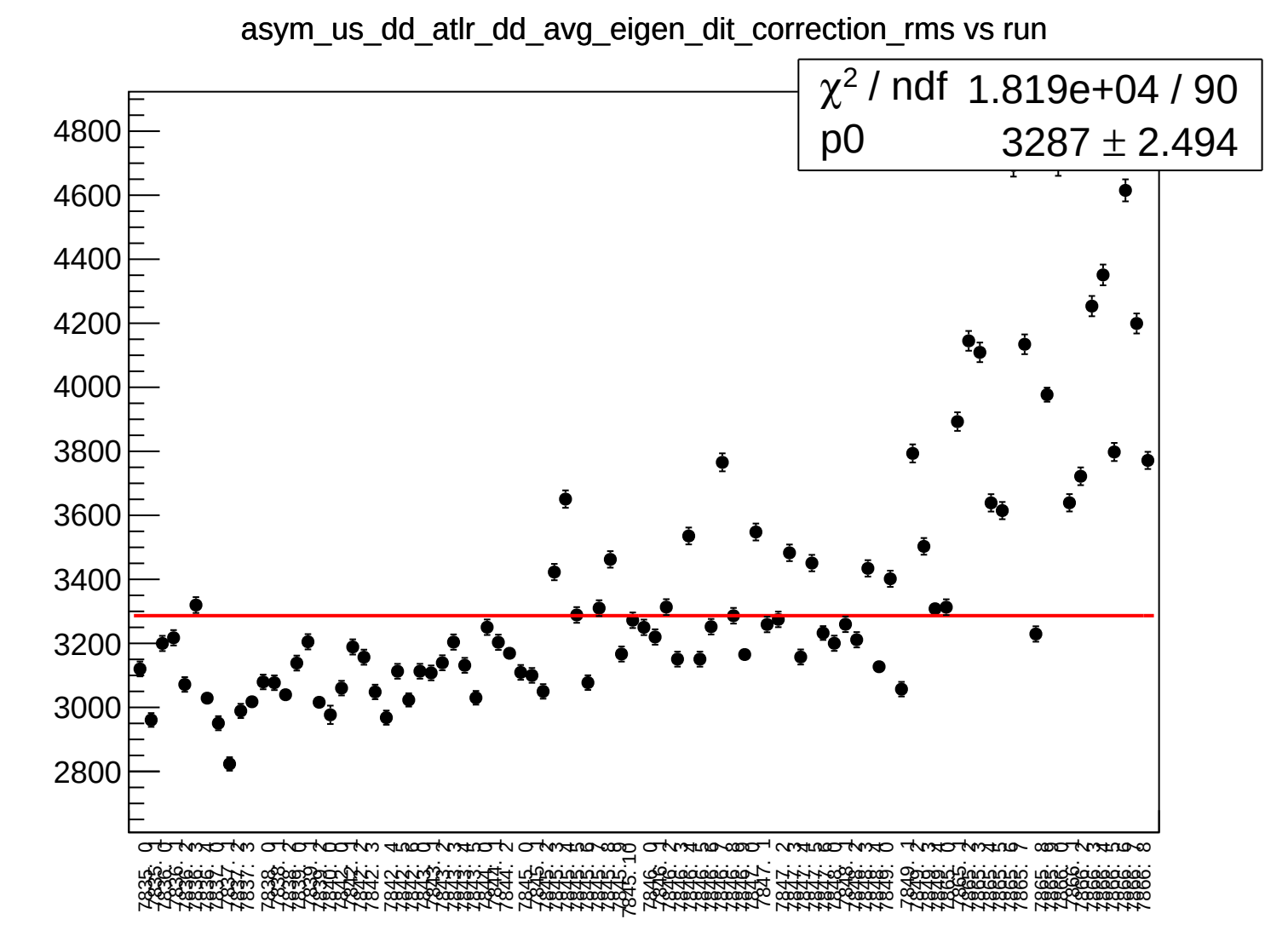

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.99 / 90
p0 −1904 ± 1910
pull
Entries 91
Mean 460
Std Dev 0

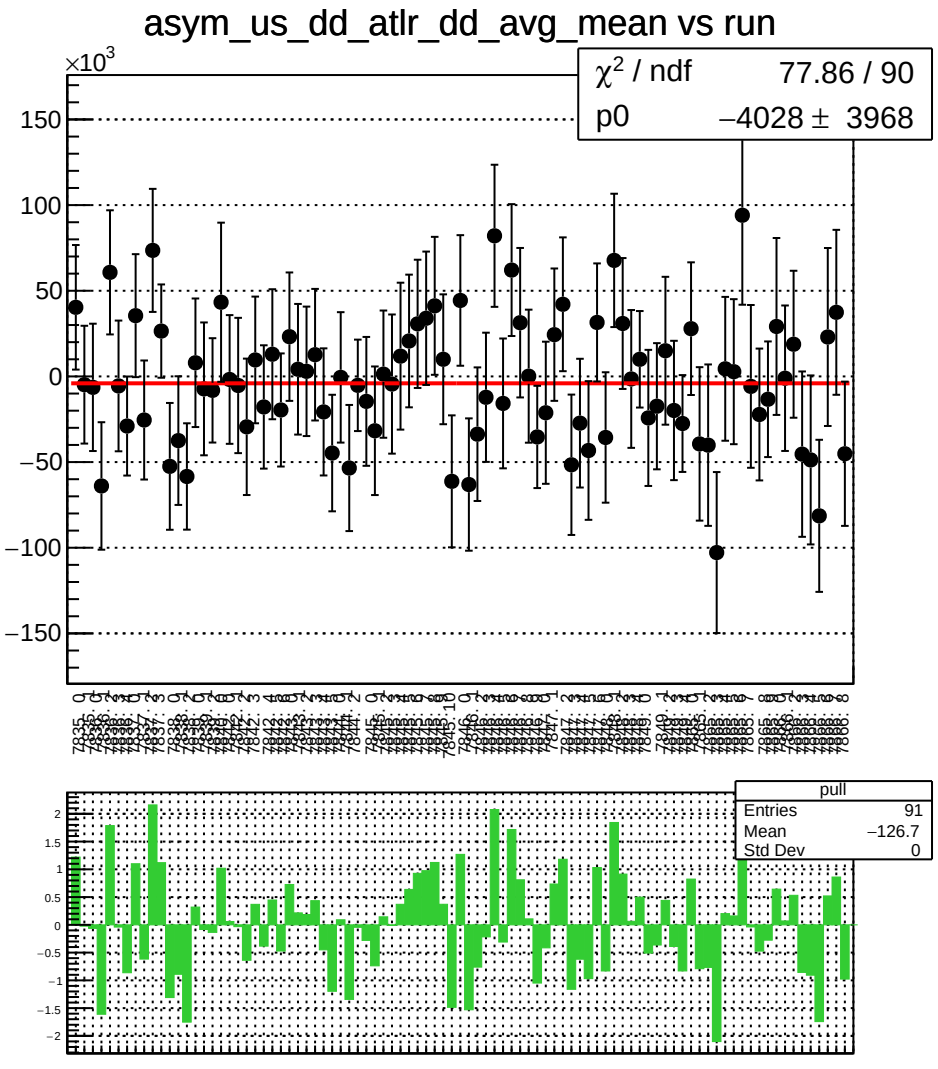

pull1D
Entries 91
Mean −0.007096
Std Dev 0.9664

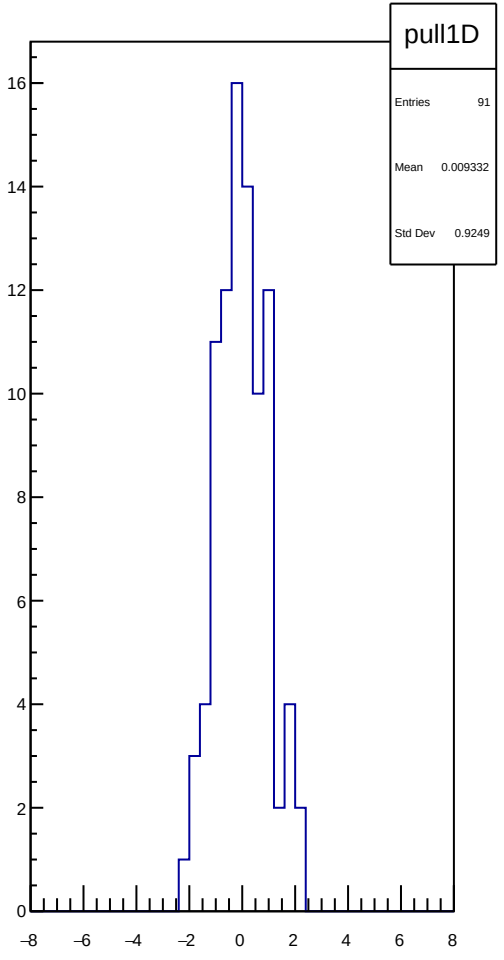

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 156.3 / 90
p0 1789 ± 1.35
1880
1860
1840
1820
1800
1780
1760
1740

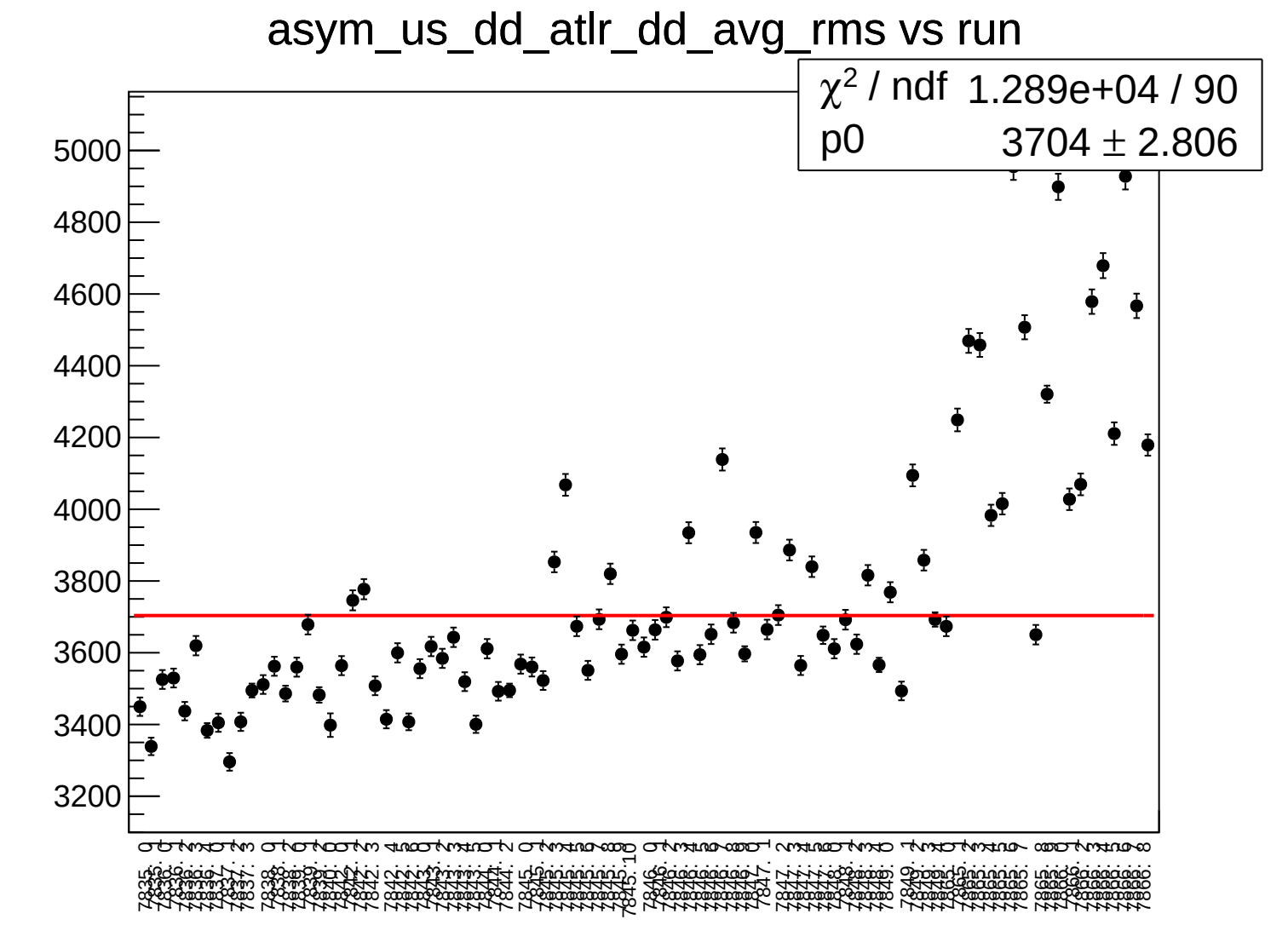

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.84 / 90
p0 2238 ± 3527
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 23.41
Std Dev 0
2
1
0
−1
−2

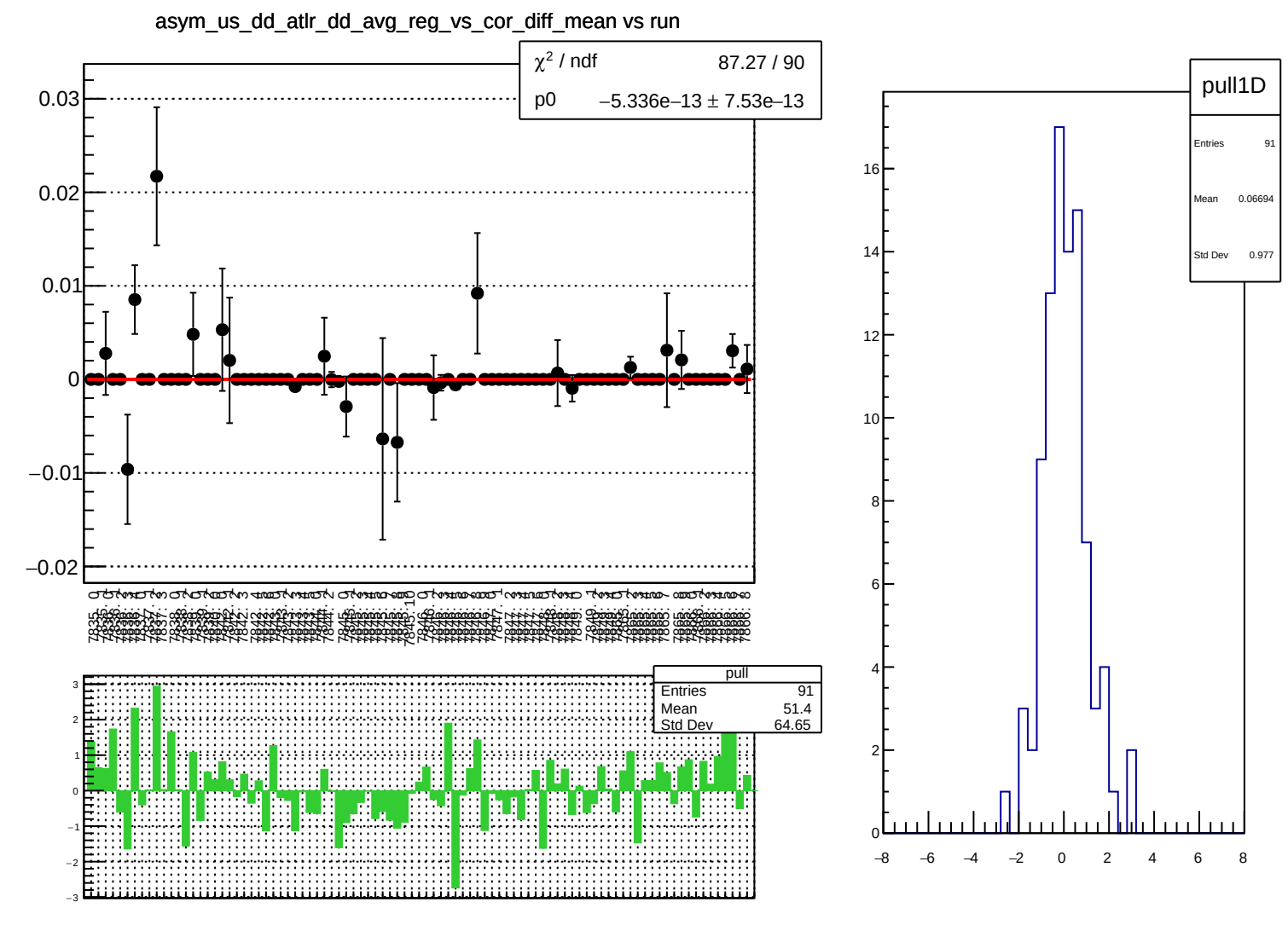

pull1D
Entries 91
Mean −0.01561
Std Dev 0.9768
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

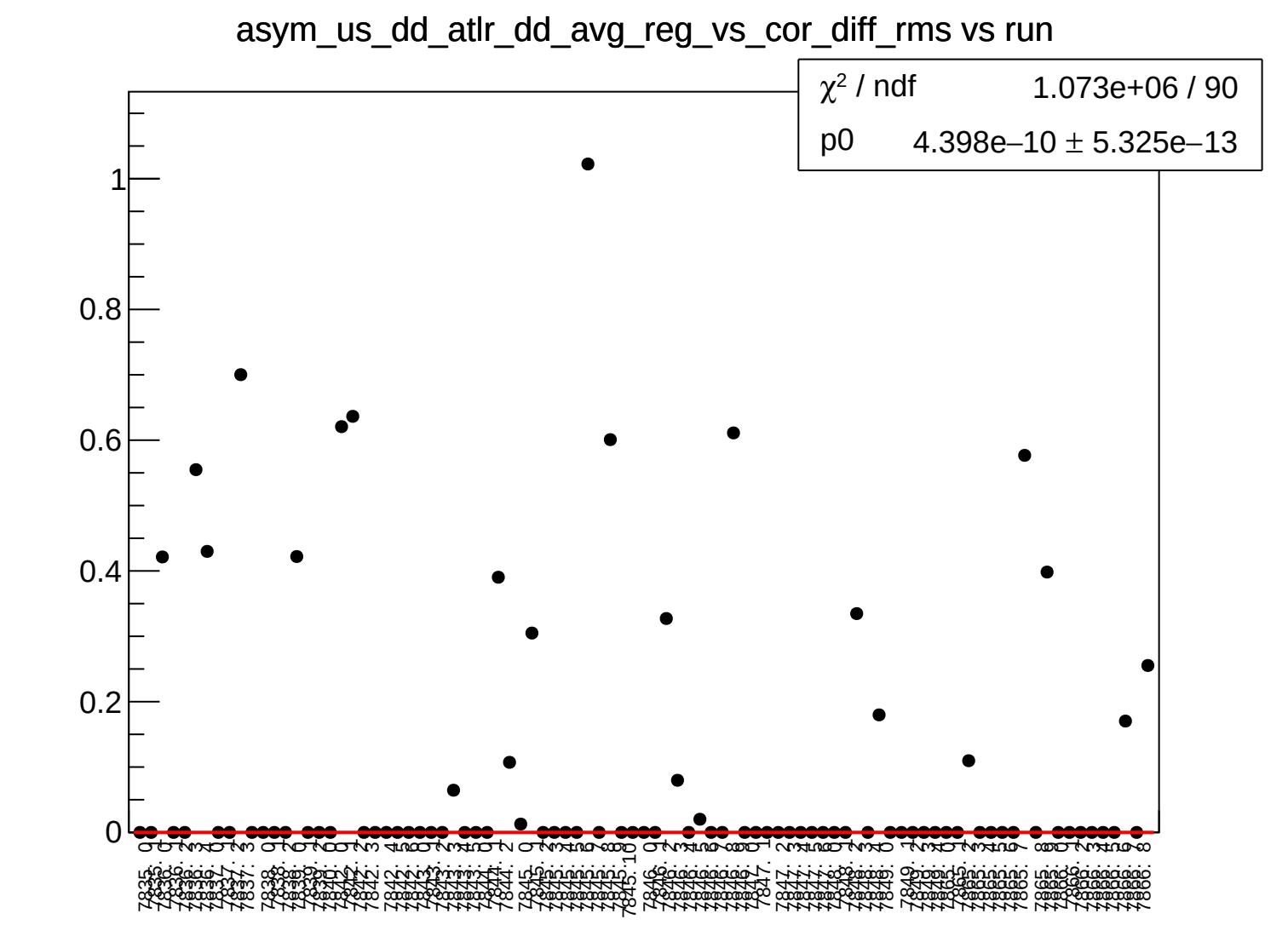

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.819e+04 / 90
p0 3287 ± 2.494
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

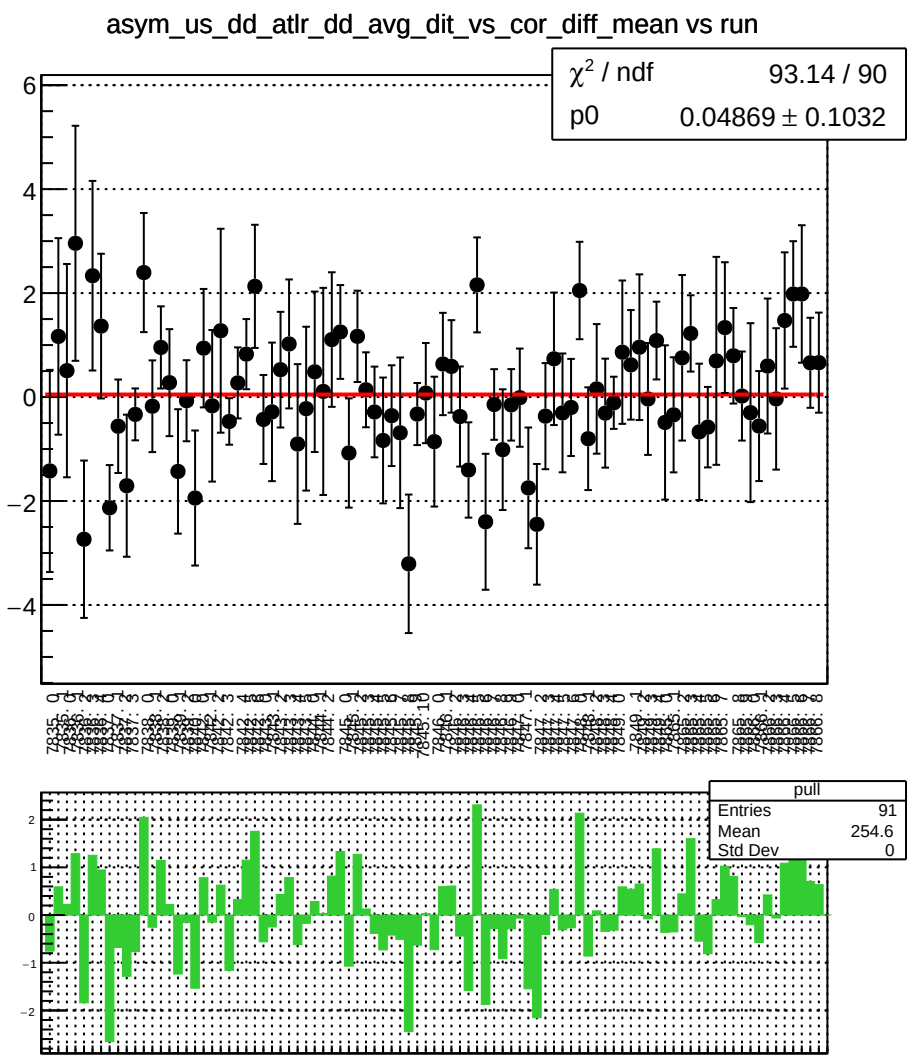

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 77.86 / 90
p0 −4028 ± 3968
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −126.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

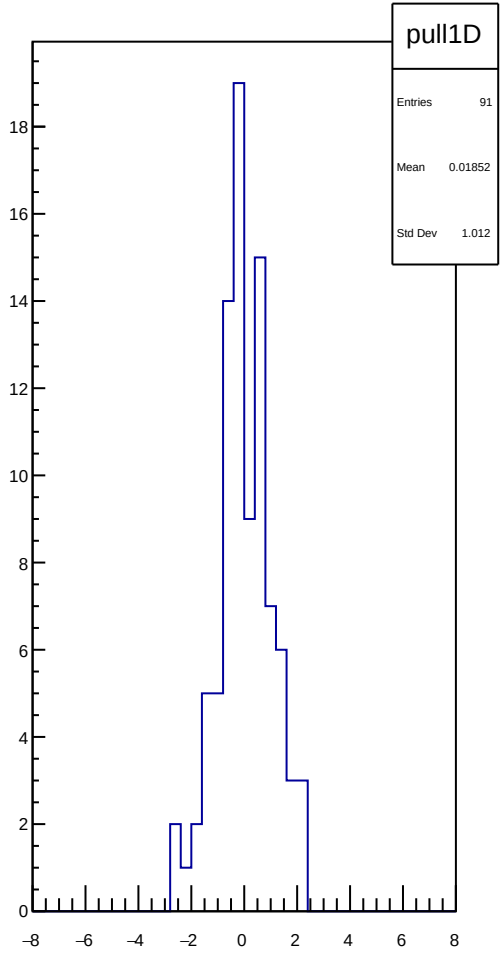

pull1D
Entries 91
Mean 0.009332
Std Dev 0.9249
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

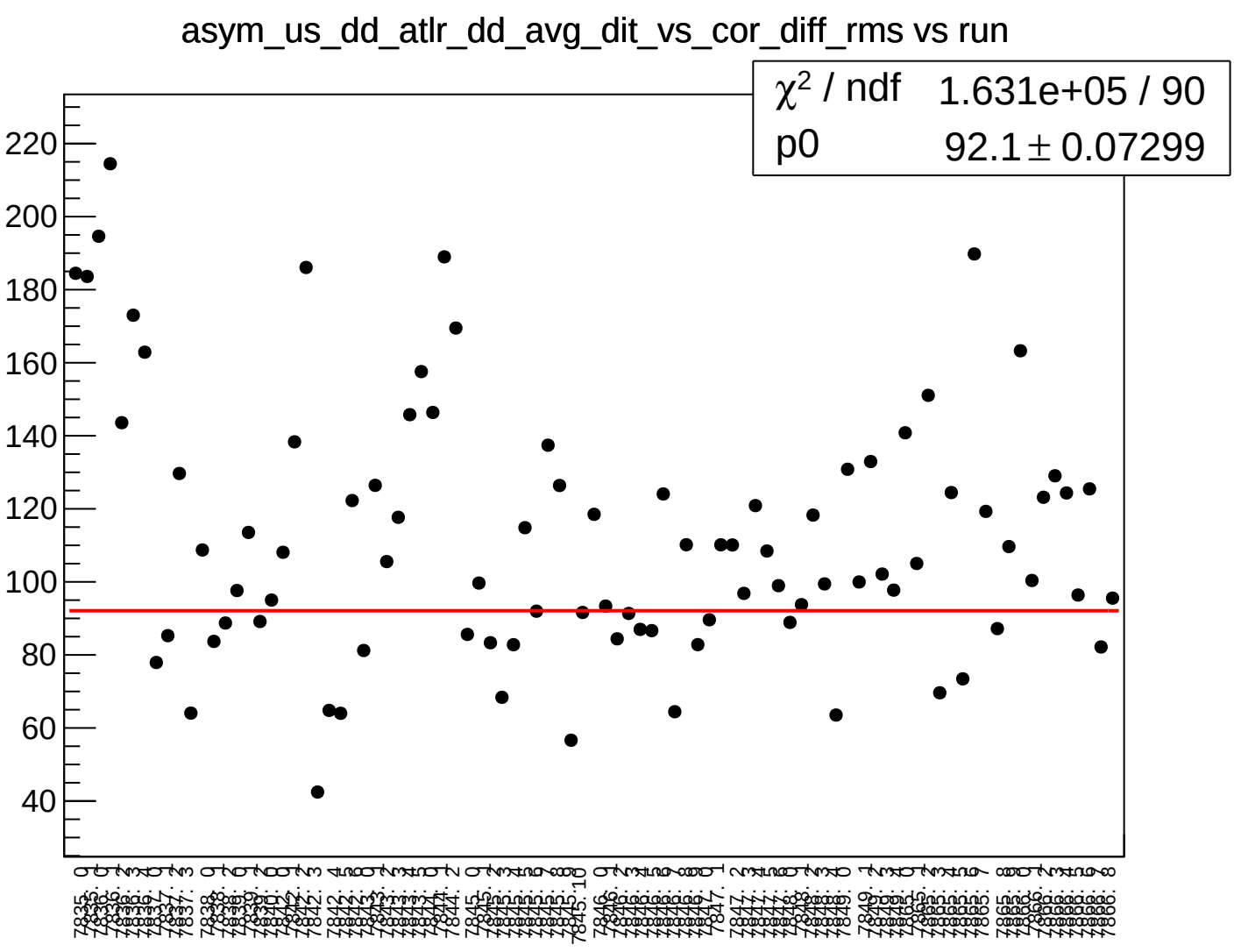

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.289e+04 / 90
p0 3704 ± 2.806
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

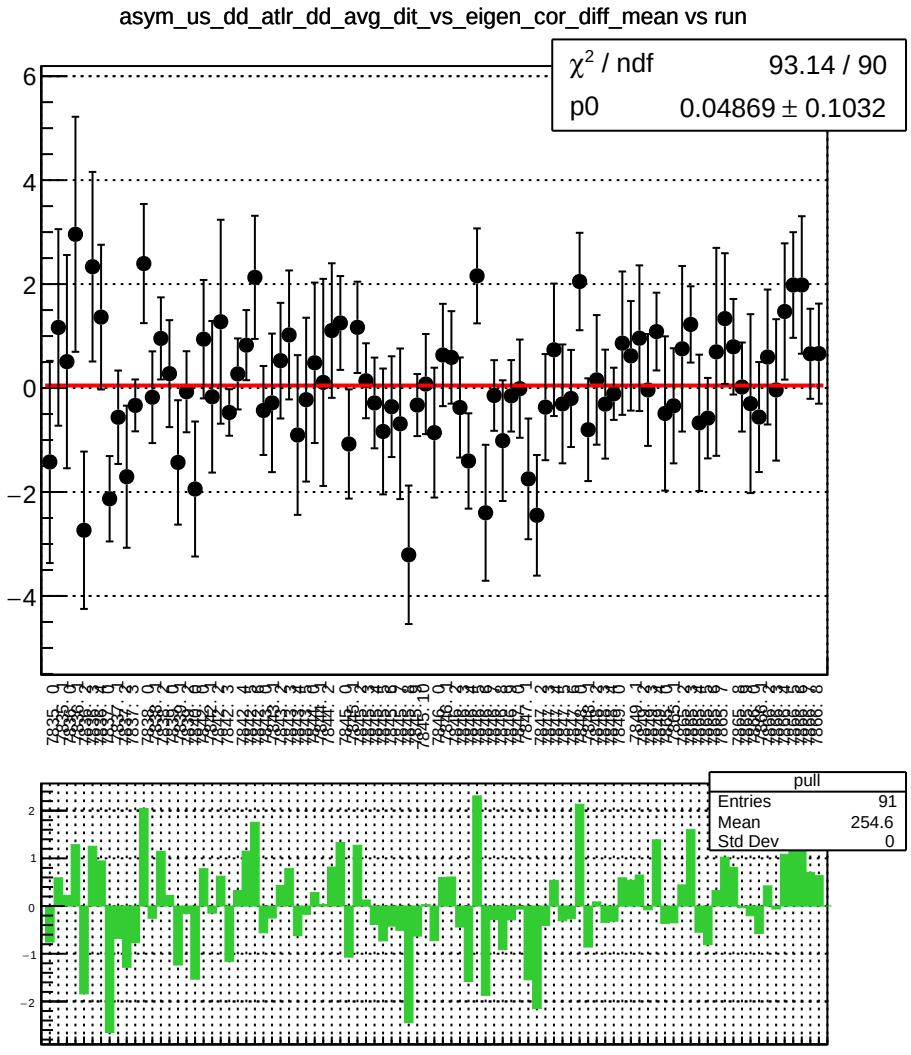

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.27 / 90
p0 −5.336e−13 ± 7.53e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 51.4
Std Dev 64.65
pull1D
Entries 91
Mean 0.06694
Std Dev 0.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

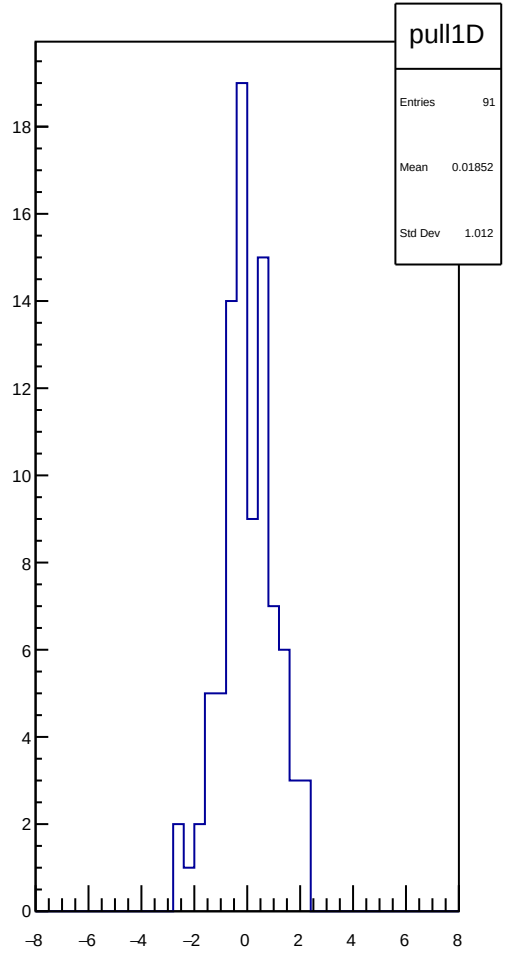

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 90
p0 4.398e−10 ± 5.325e−13
1
0.8
0.6
0.4
0.2
0

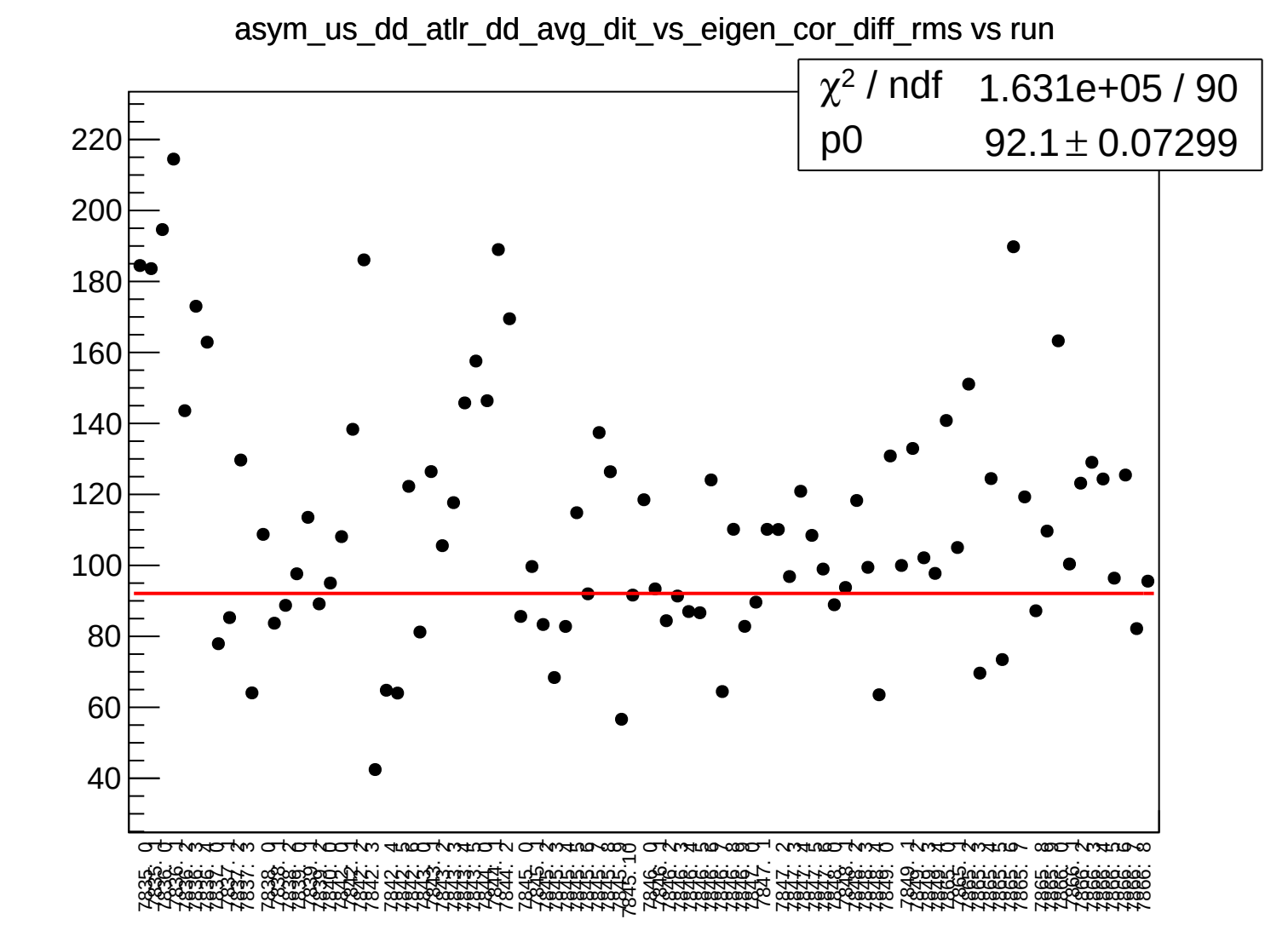

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.14 / 90
p0 0.04869 ± 0.1032
pull
Entries 91
Mean 254.6
Std Dev 0

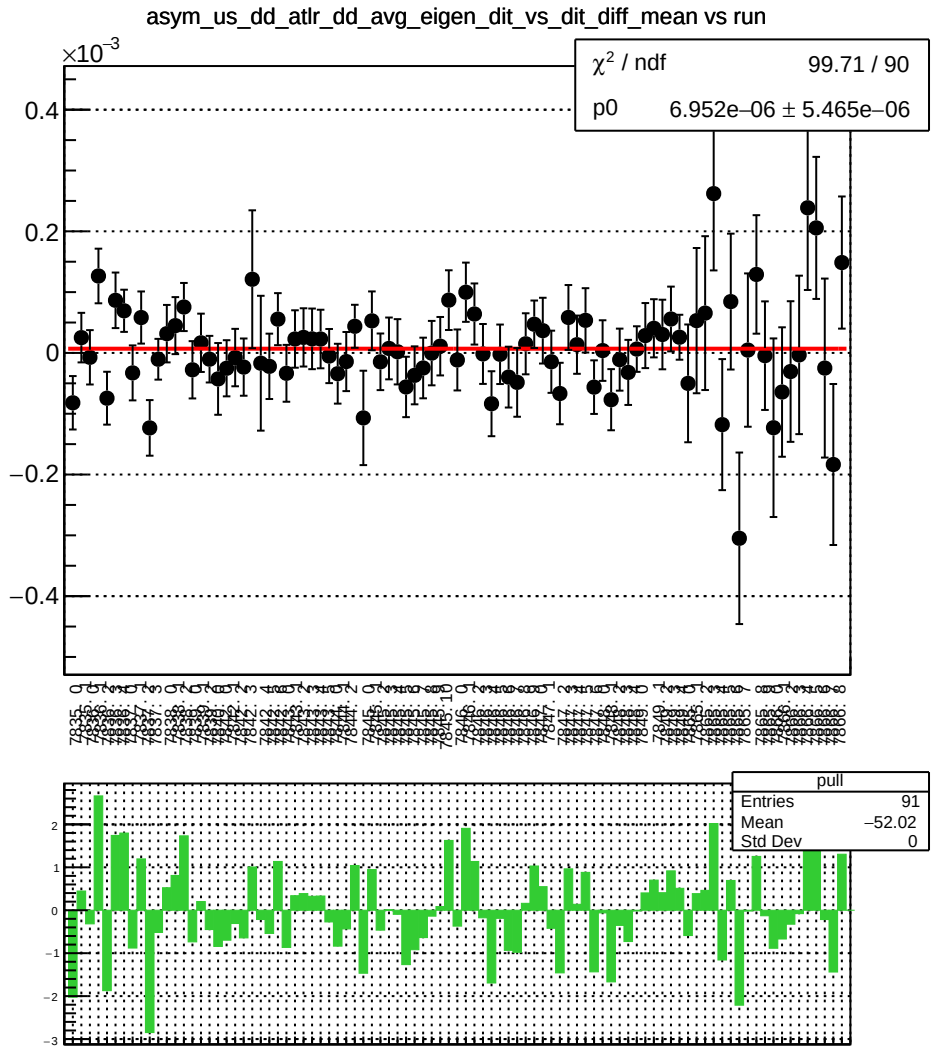

pull1D
Entries 91
Mean 0.01852
Std Dev 1.012

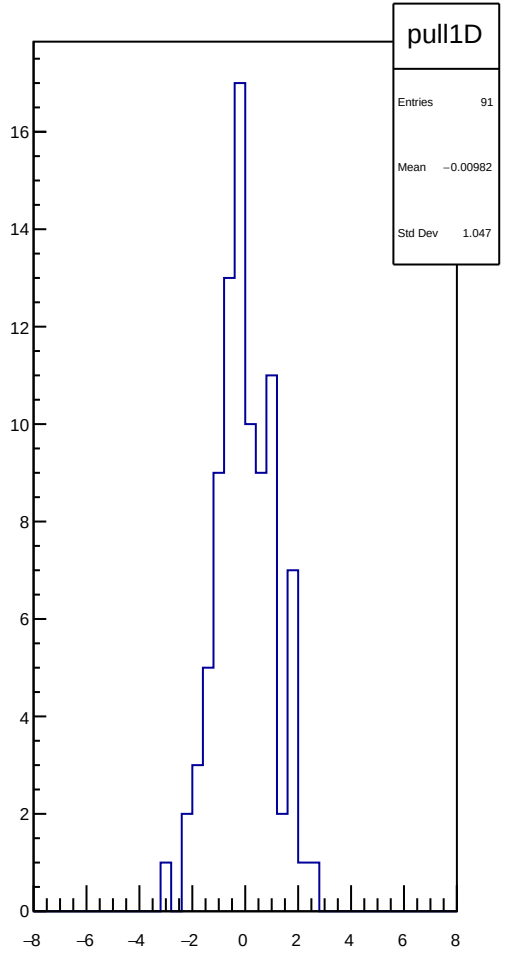

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 90
p0 92.1 ± 0.07299
220
200
180
160
140
120
100
80
60
40

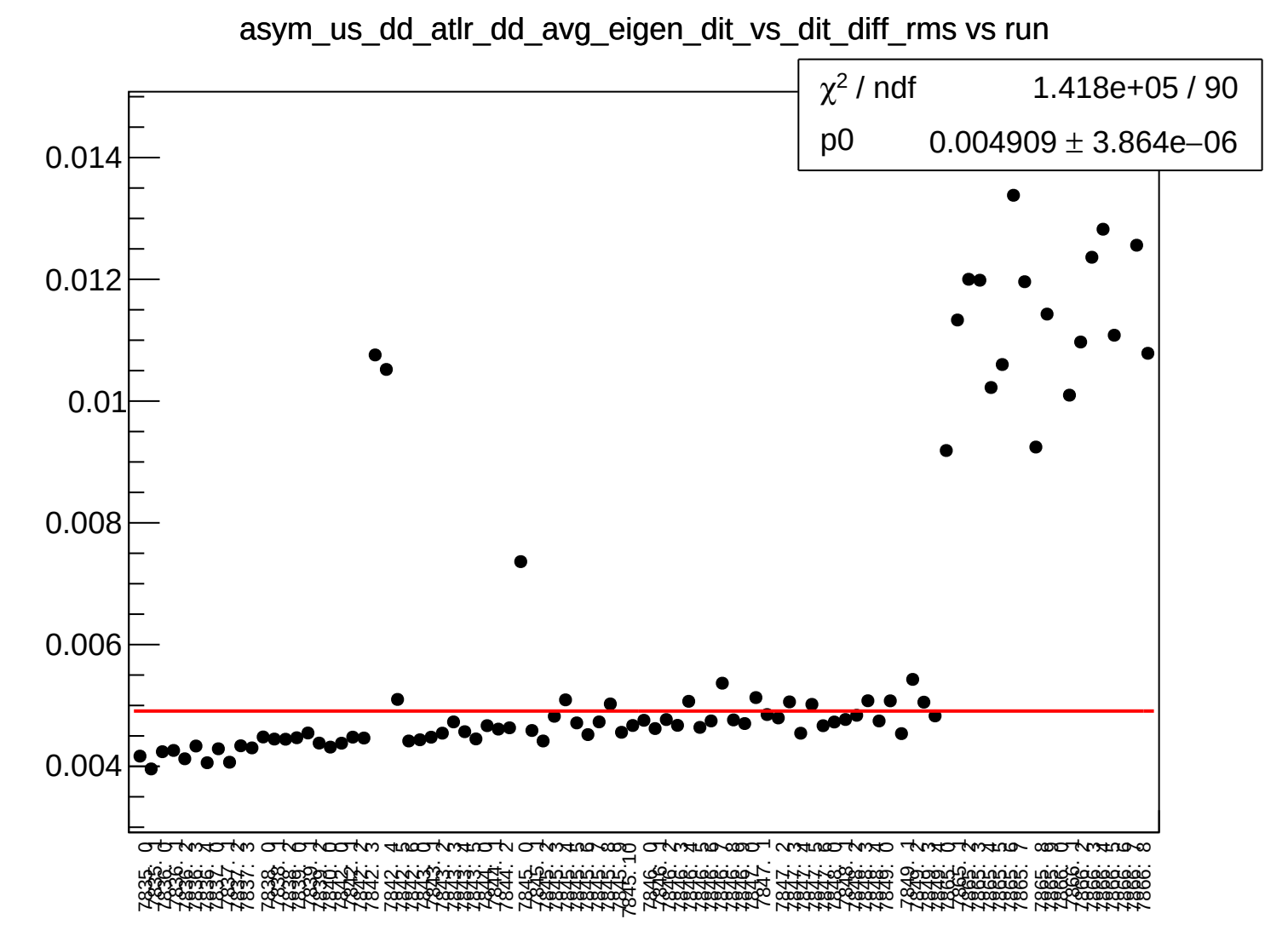

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.14 / 90
p0 0.04869 ± 0.1032
pull
Entries 91
Mean 254.6
Std Dev 0

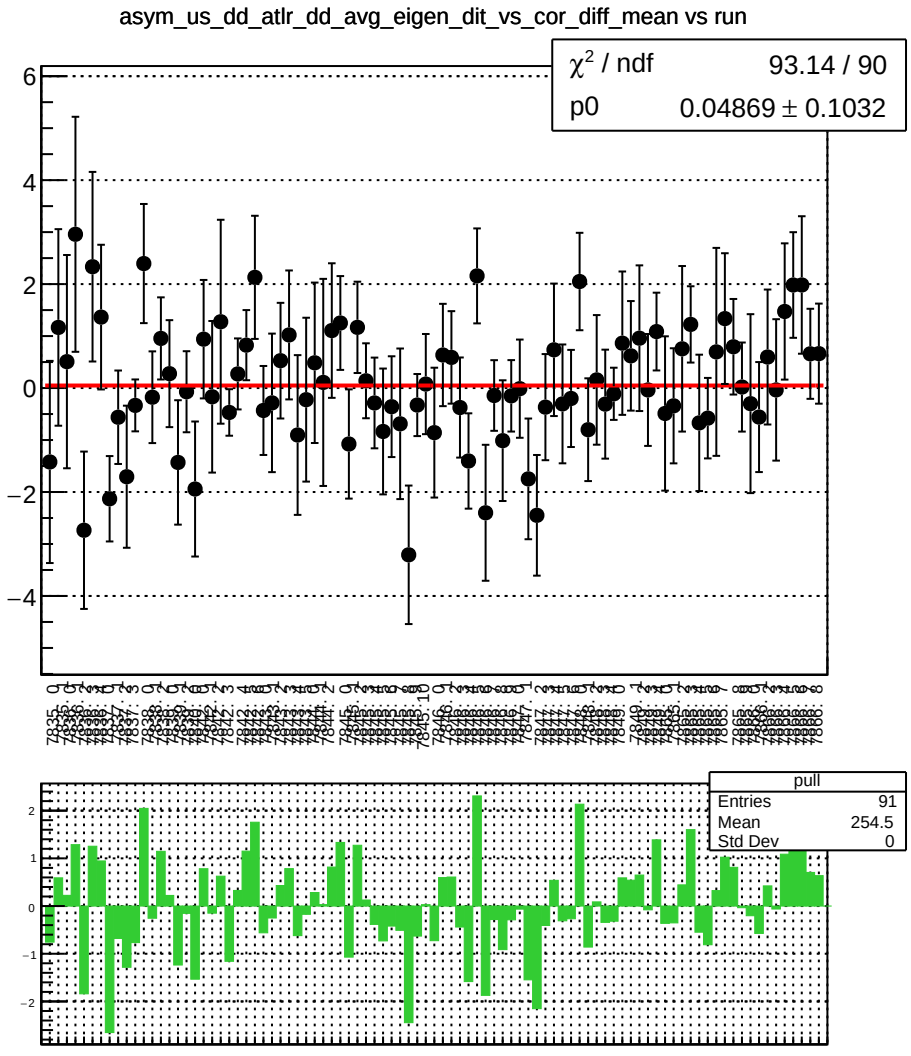

pull1D
Entries 91
Mean 0.01852
Std Dev 1.012

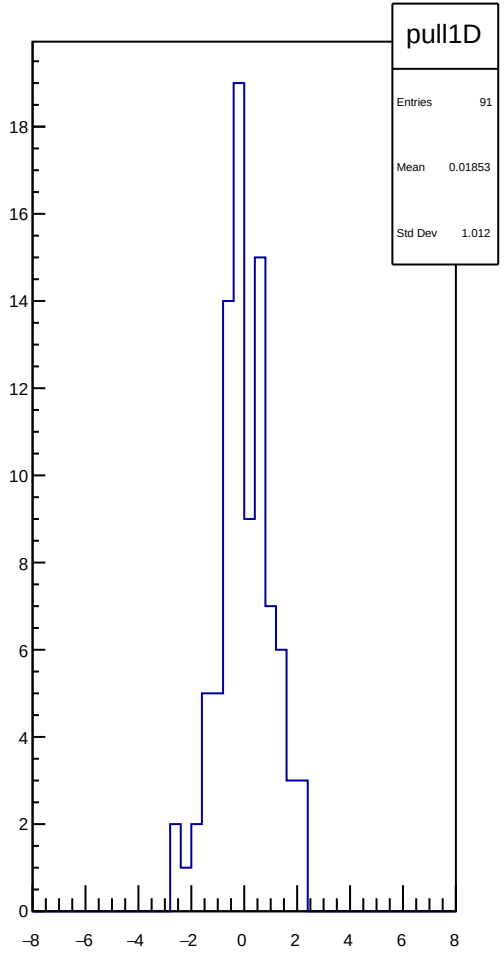

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 90
p0 92.1 ± 0.07299
220
200
180
160
140
120
100
80
60
40

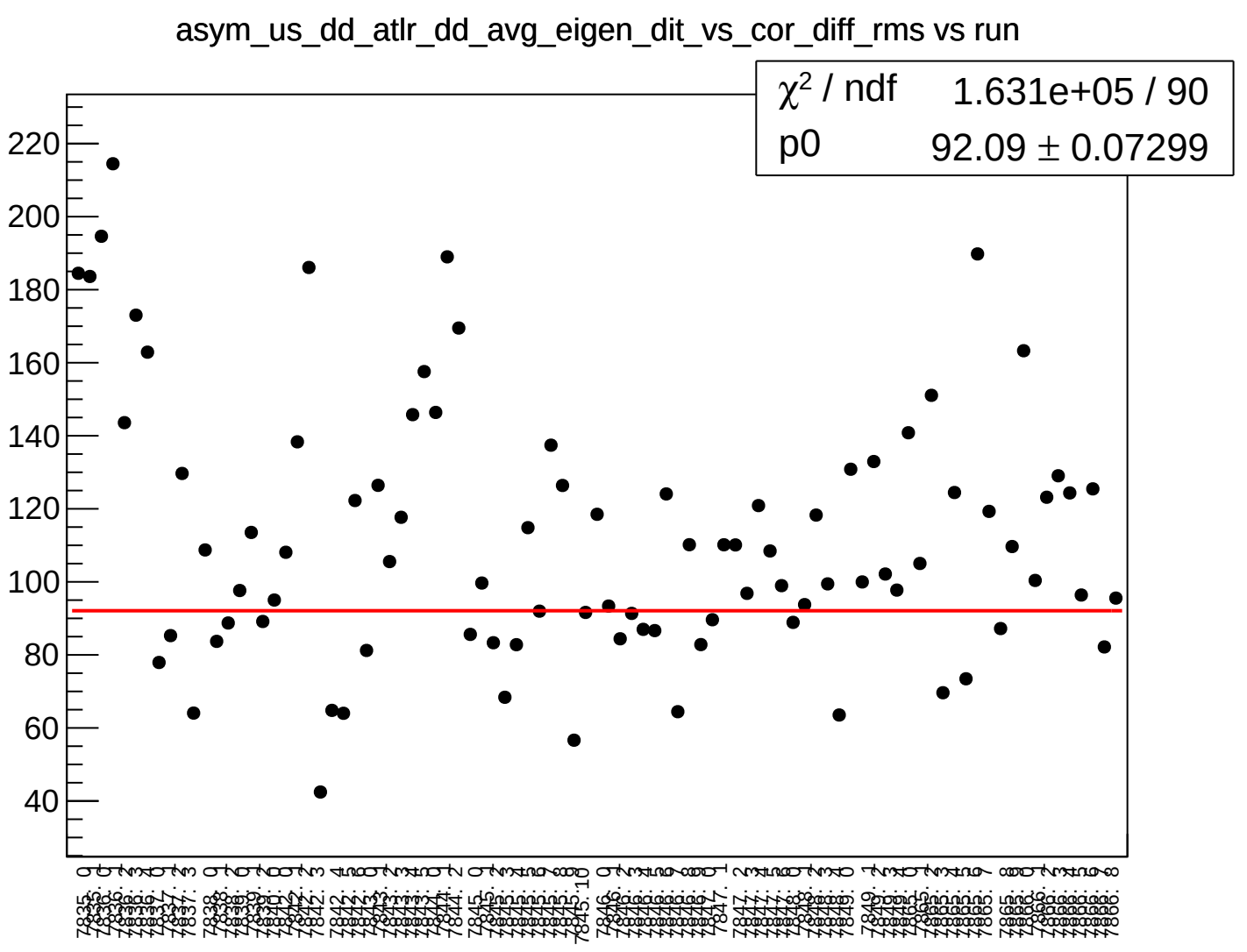

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.71 / 90
p0 6.952e−06 ± 5.465e−06
pull
Entries 91
Mean −52.02
Std Dev 0

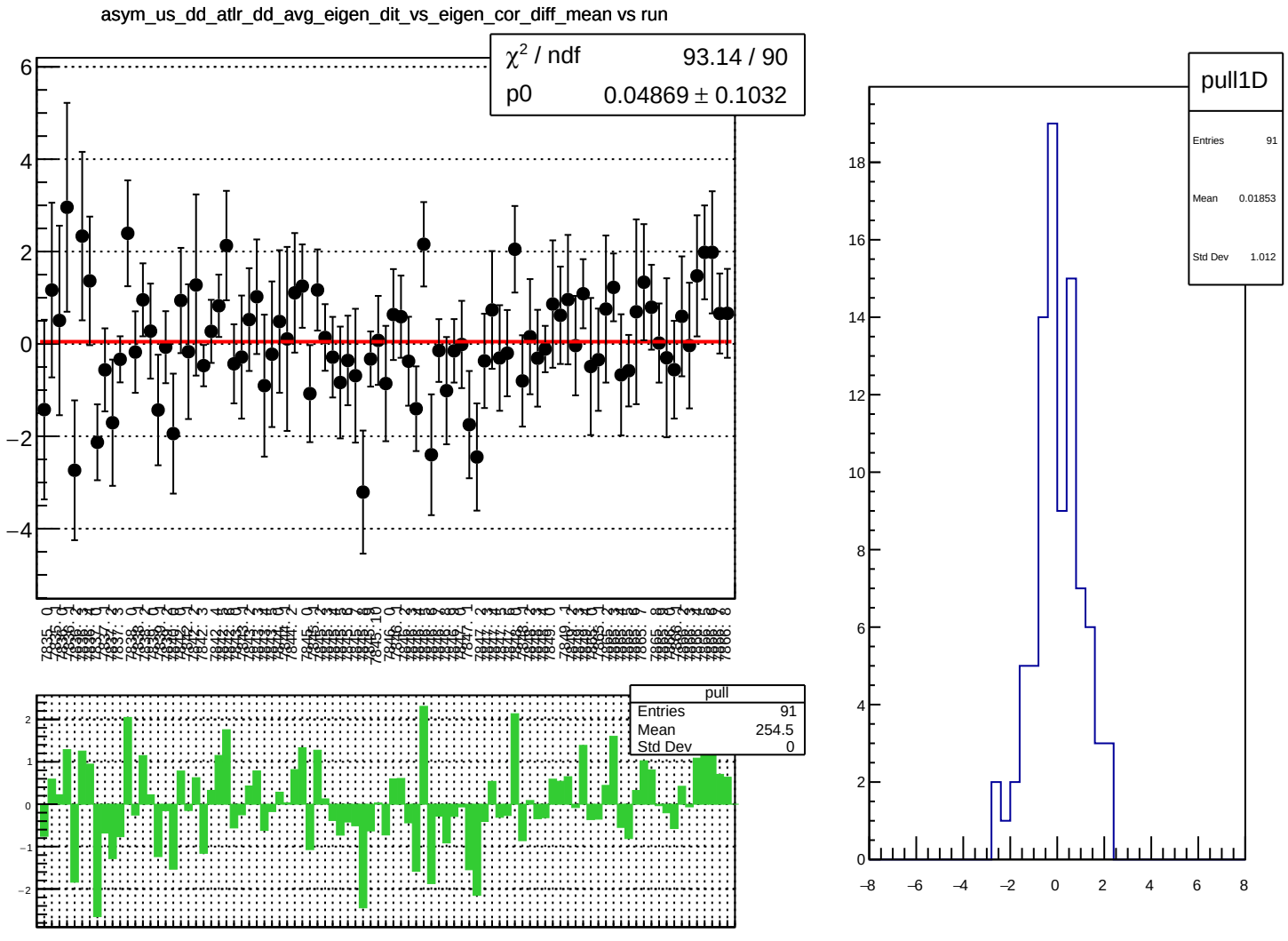

pull1D
Entries 91
Mean −0.00982
Std Dev 1.047

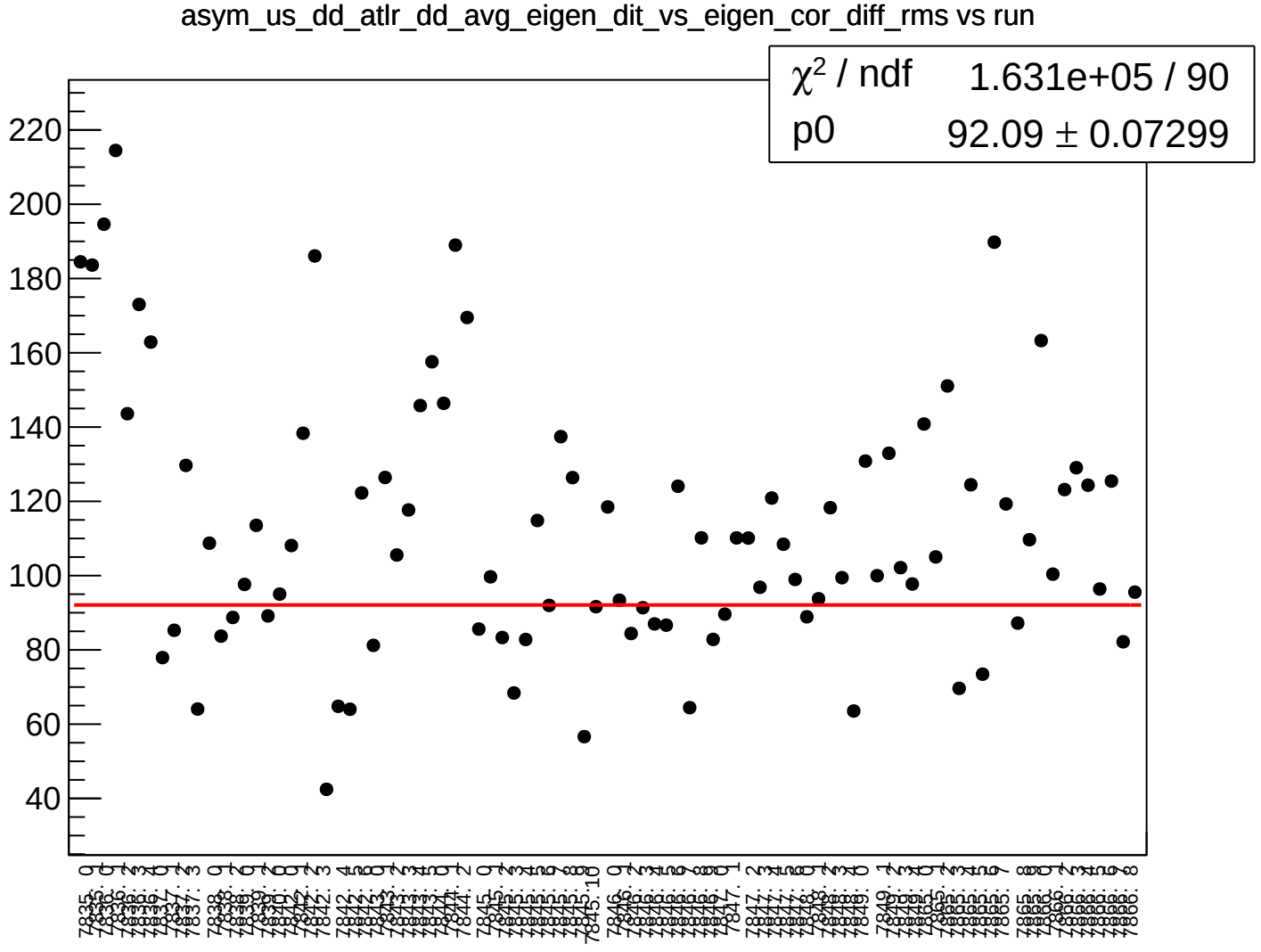

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.418e+05 / 90
p0 0.004909 ± 3.864e−06
0.014
0.012
0.01
0.008
0.006
0.004

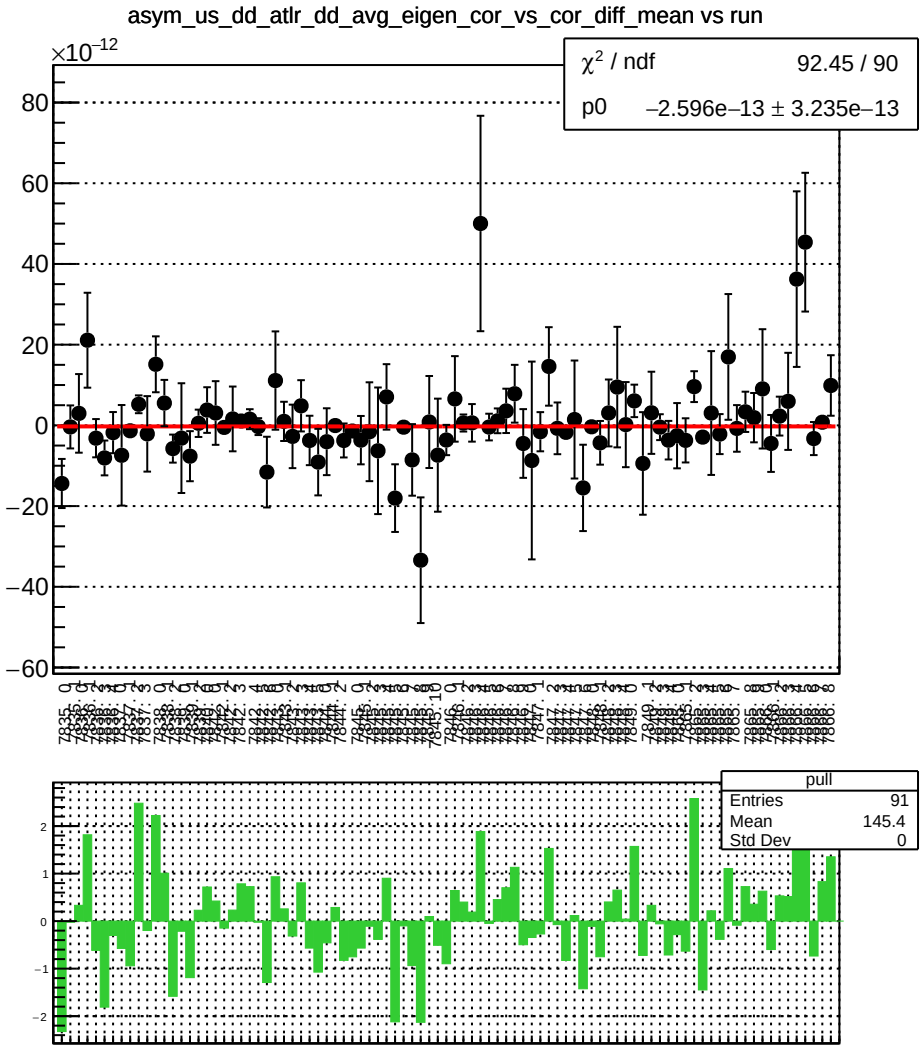

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.14 / 90
p0 0.04869 ± 0.1032
pull
Entries 91
Mean 254.5
Std Dev 0

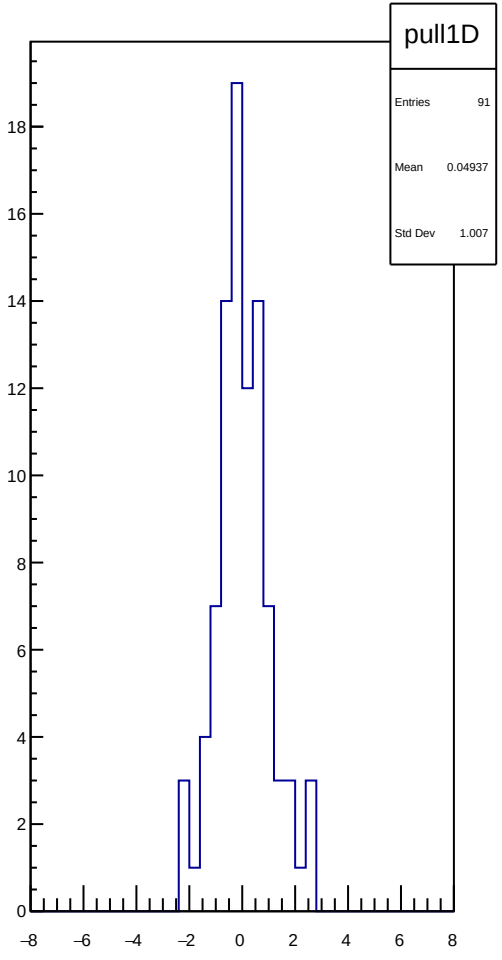

pull1D
Entries 91
Mean 0.01853
Std Dev 1.012

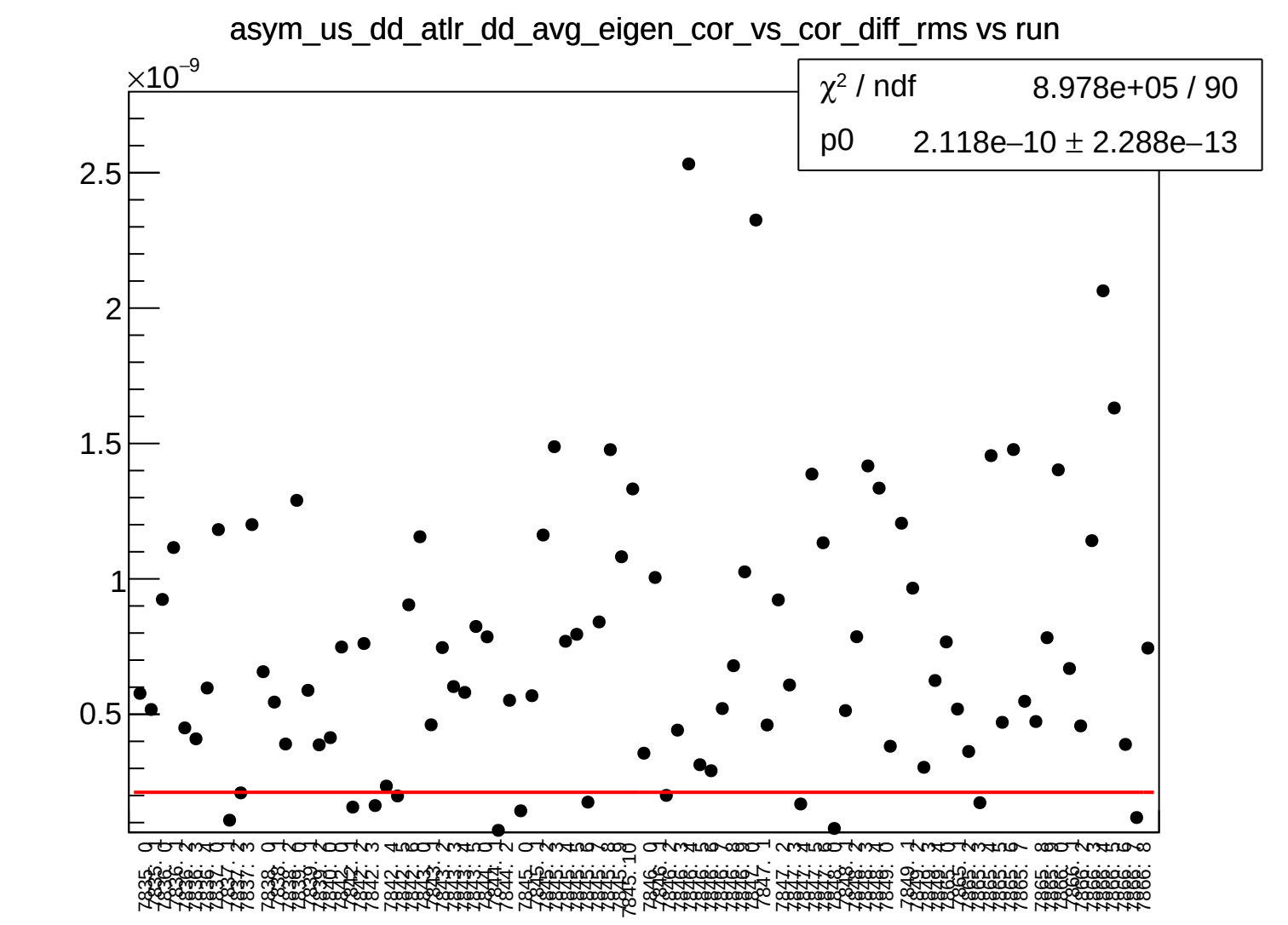

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 90
p0 92.09 ± 0.07299
220
200
180
160
140
120
100
80
60
40

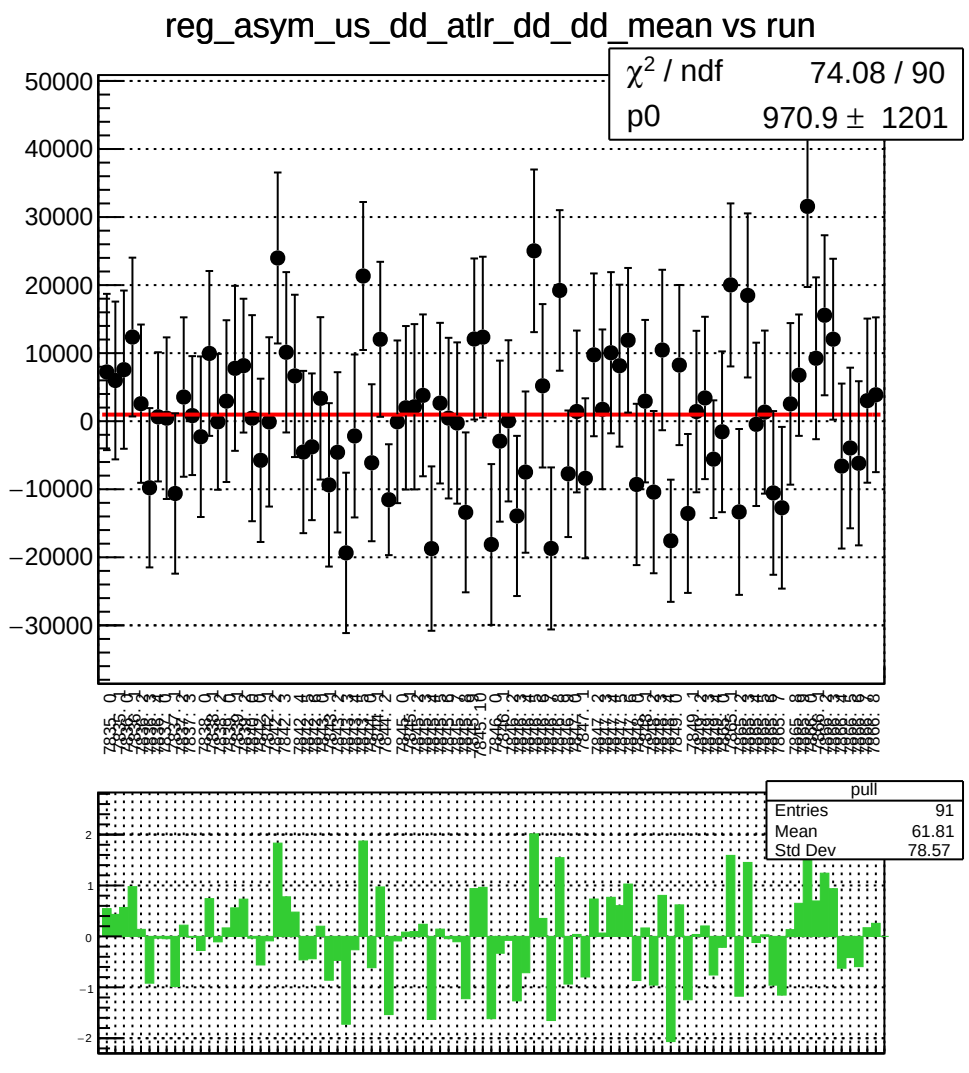

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.14 / 90
p0 0.04869 ± 0.1032
pull
Entries 91
Mean 254.5
Std Dev 0
pull1D
Entries 91
Mean 0.01853
Std Dev 1.012

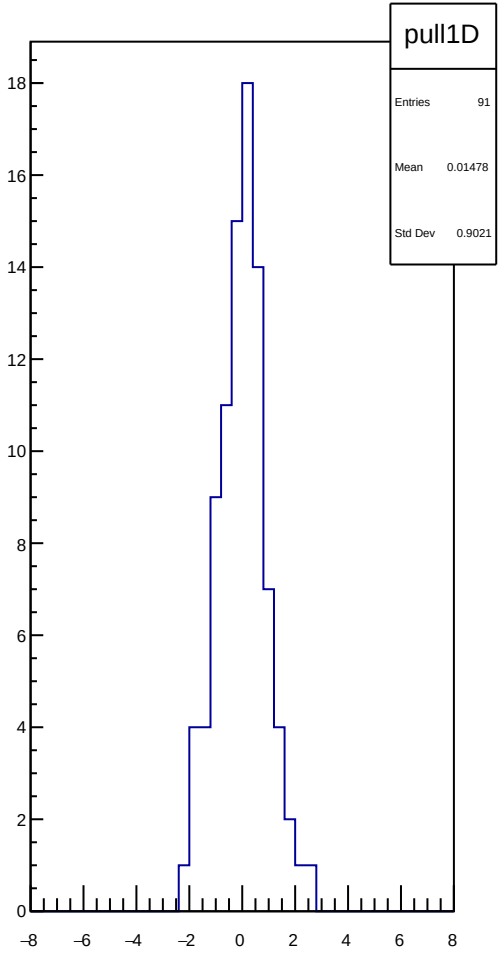

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 90
p0 92.09 ± 0.07299
220
200
180
160
140
120
100
80
60
40

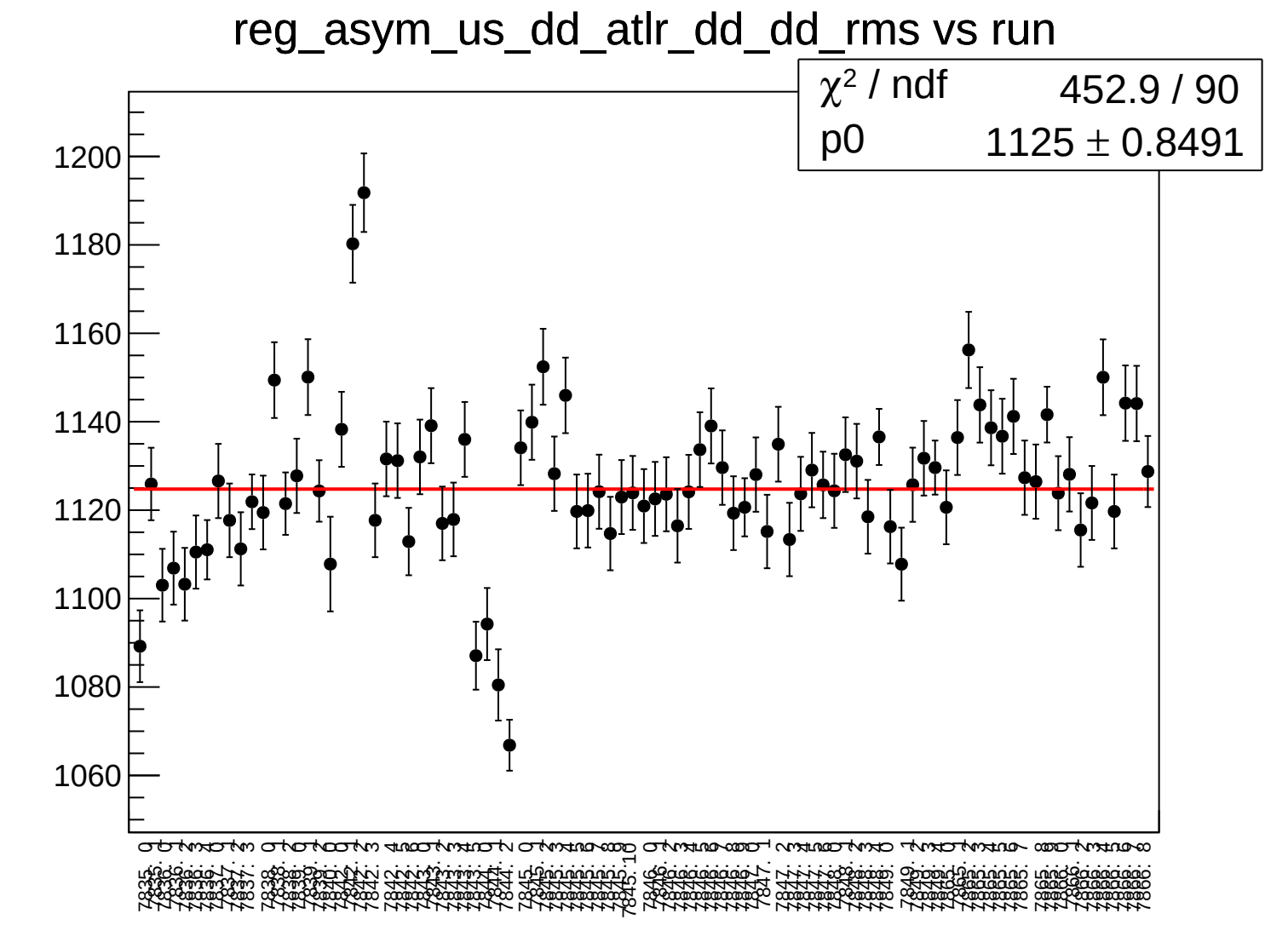

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.45 / 90
p0 −2.596e−13 ± 3.235e−13
pull
Entries 91
Mean 145.4
Std Dev 0

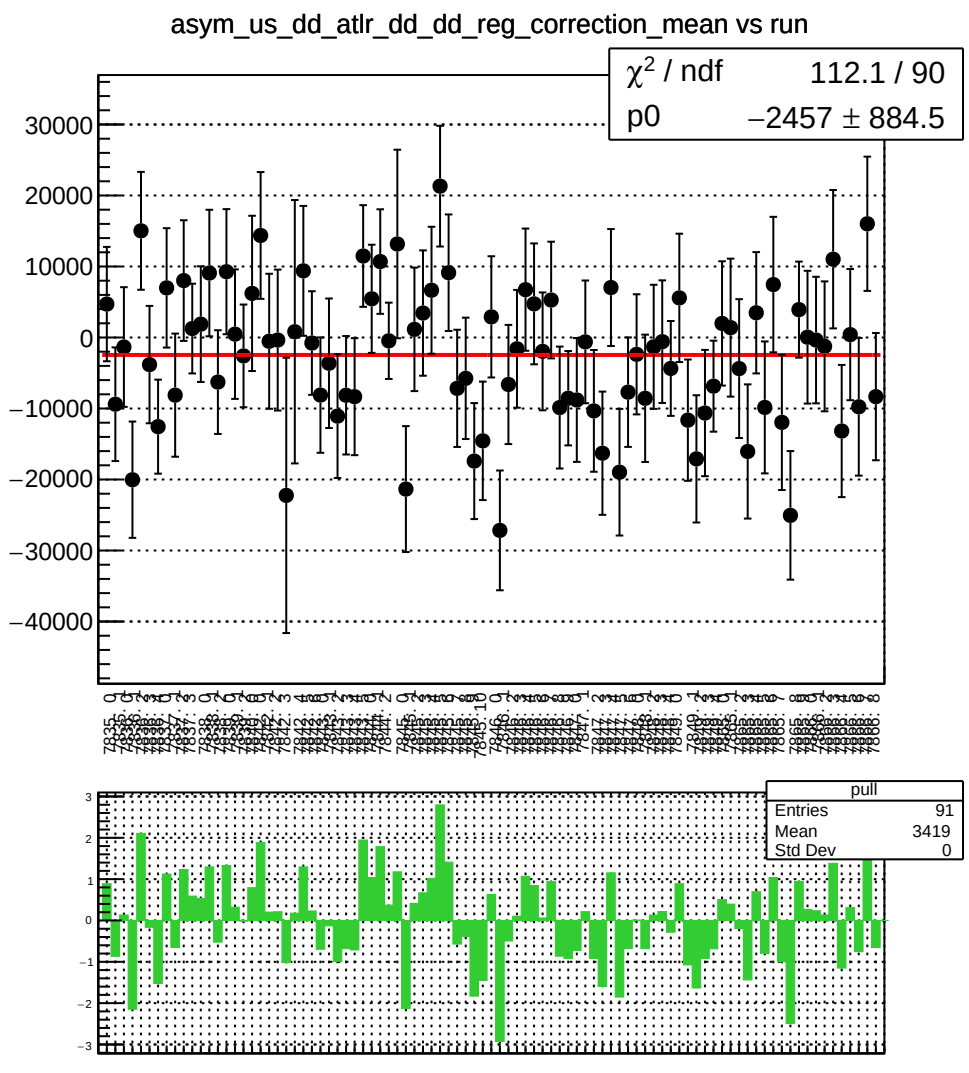

pull1D
Entries 91
Mean 0.04937
Std Dev 1.007

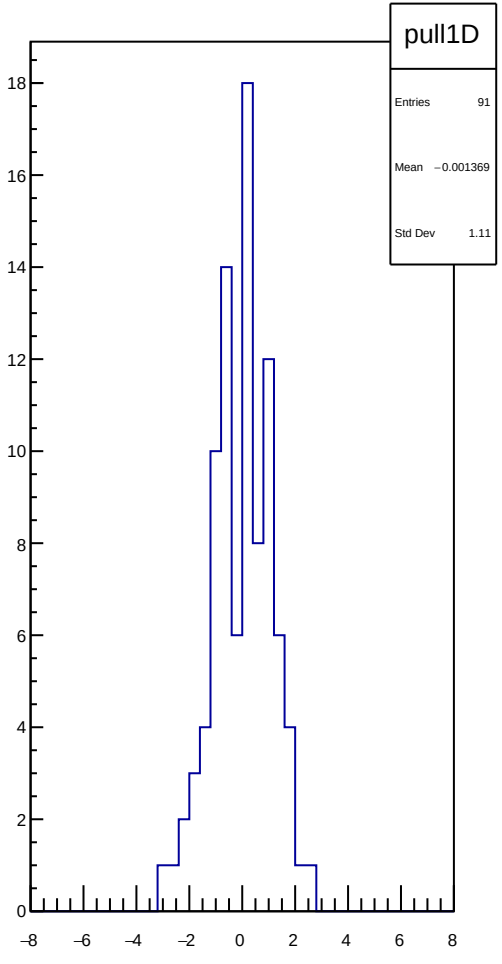

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.978e+05 / 90
p0 2.118e−10 ± 2.288e−13
2.5
2
1.5
1
0.5

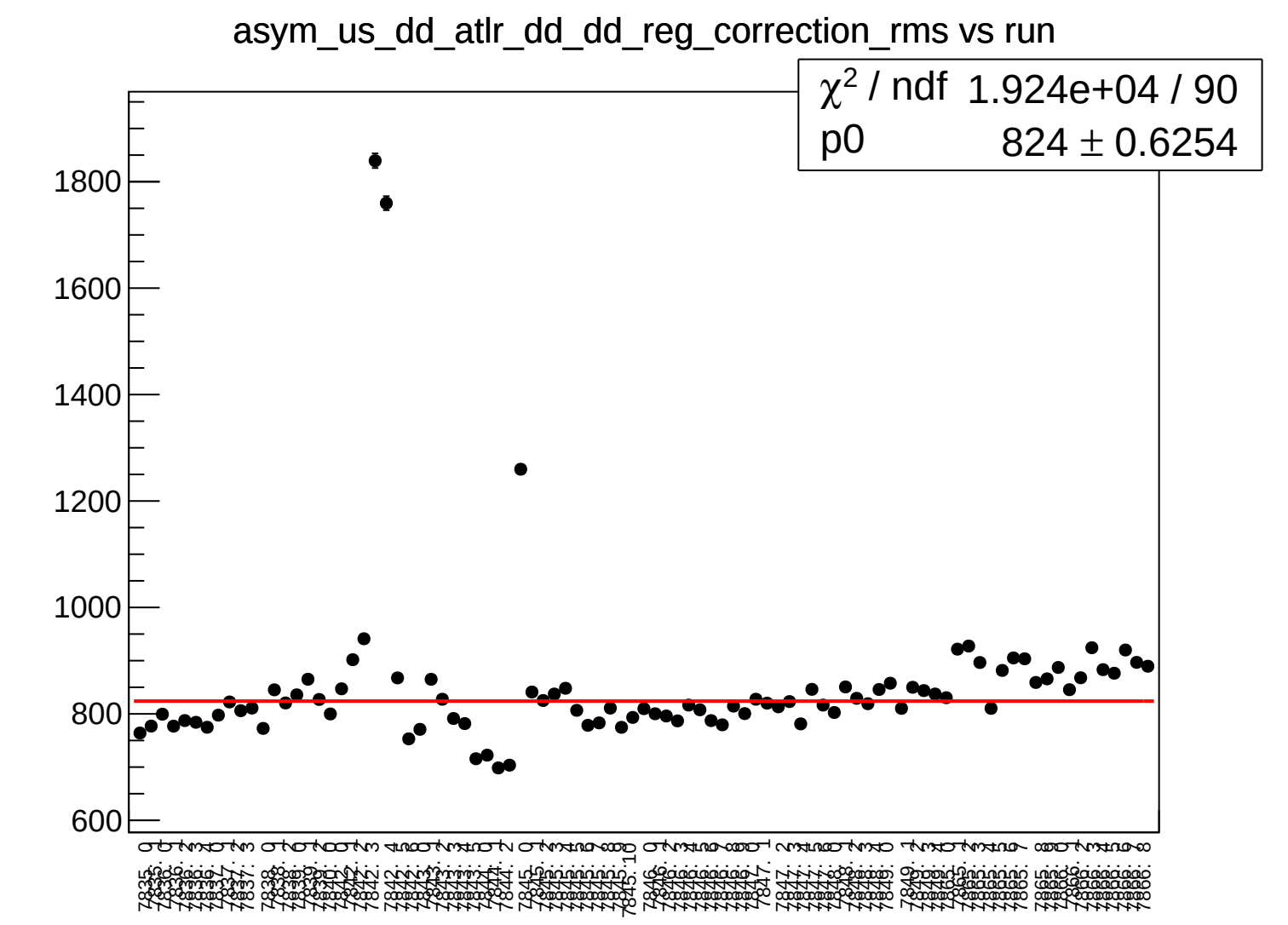

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 74.08 / 90
p0 970.9 ± 1201
pull
Entries 91
Mean 61.81
Std Dev 78.57

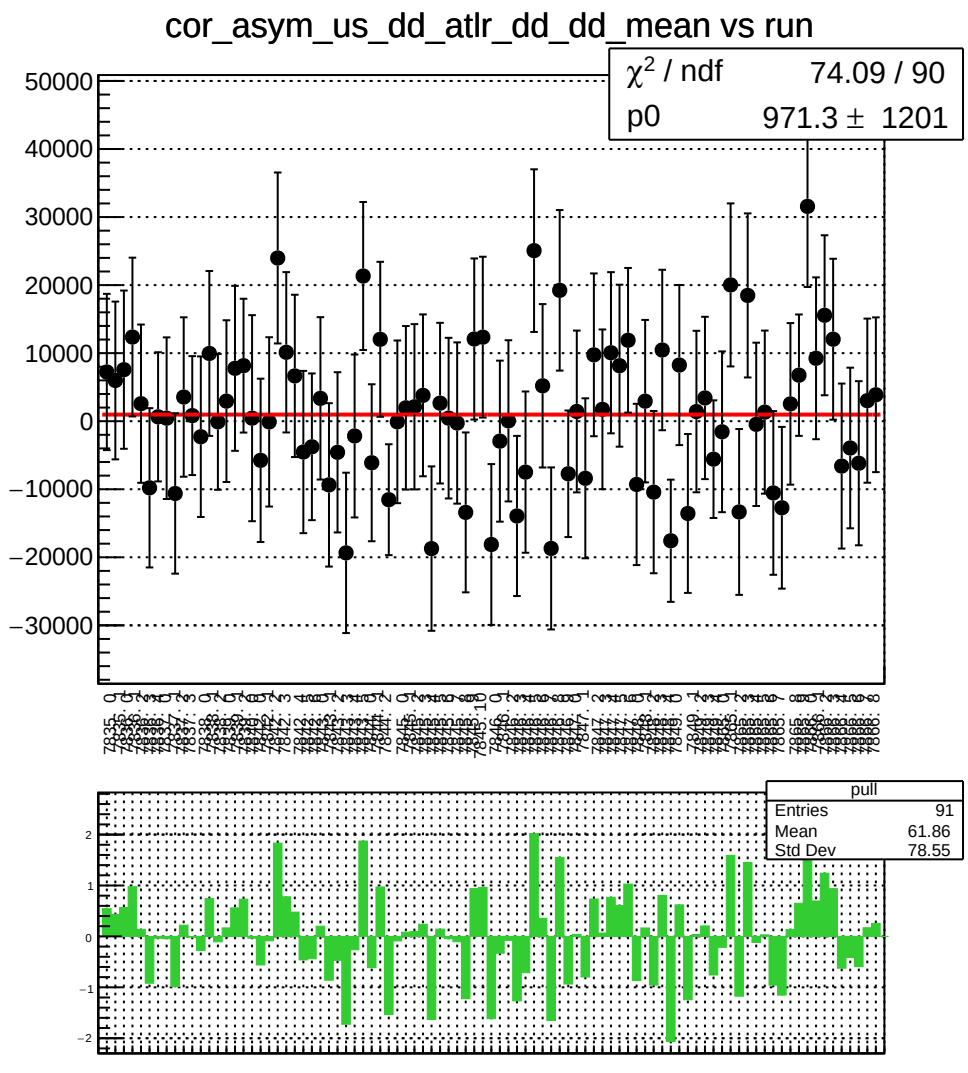

pull1D
Entries 91
Mean 0.01478
Std Dev 0.9021

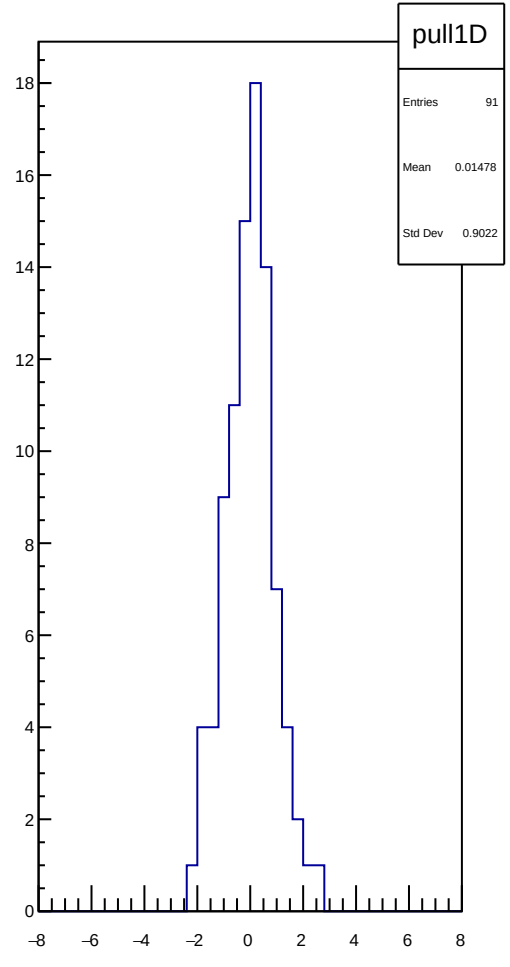

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 452.9 / 90
p0 1125 ± 0.8491
1200
1180
1160
1140
1120
1100
1080
1060

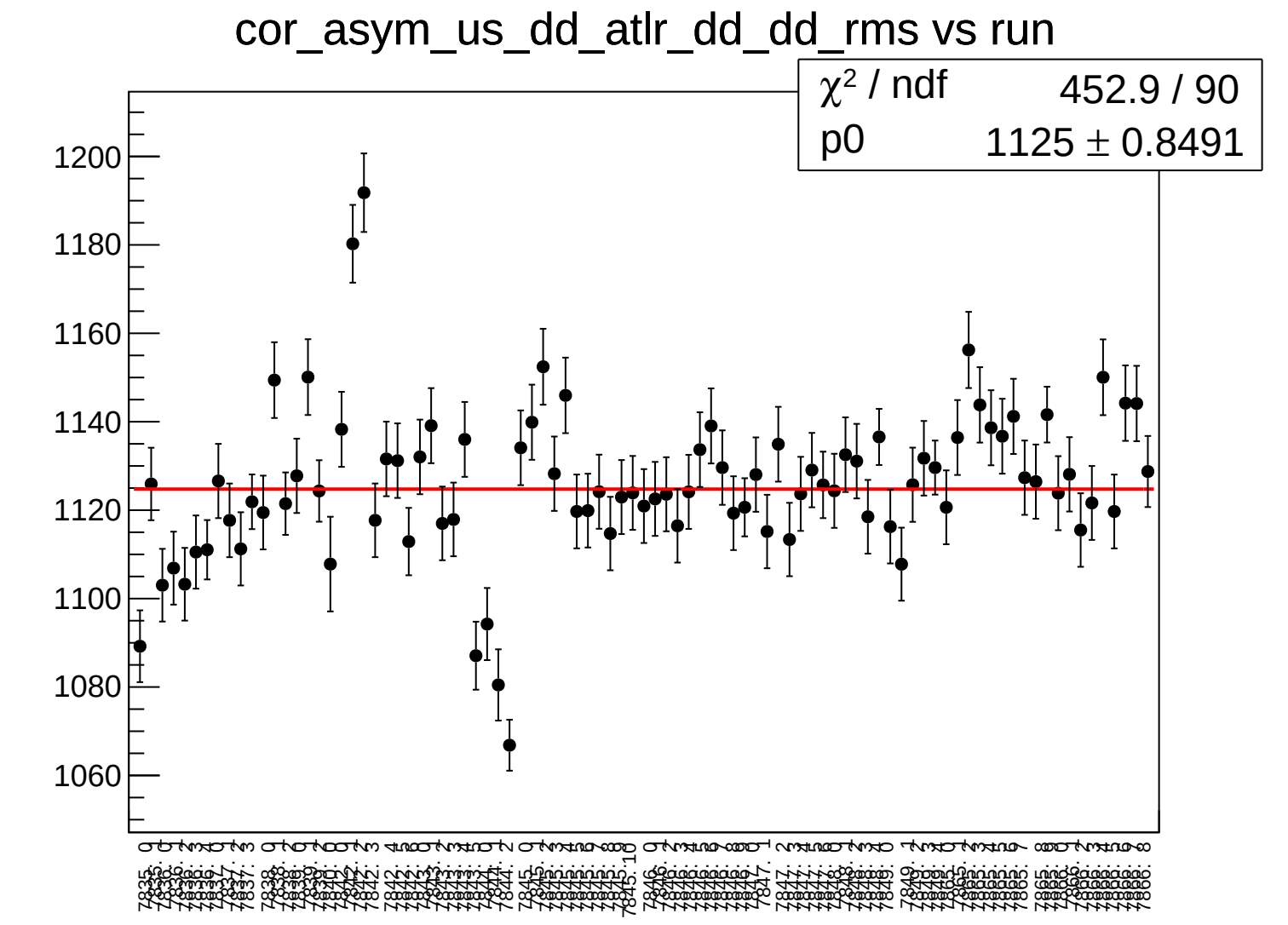

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −2457 ± 884.5
pull
Entries 91
Mean 3419
Std Dev 0

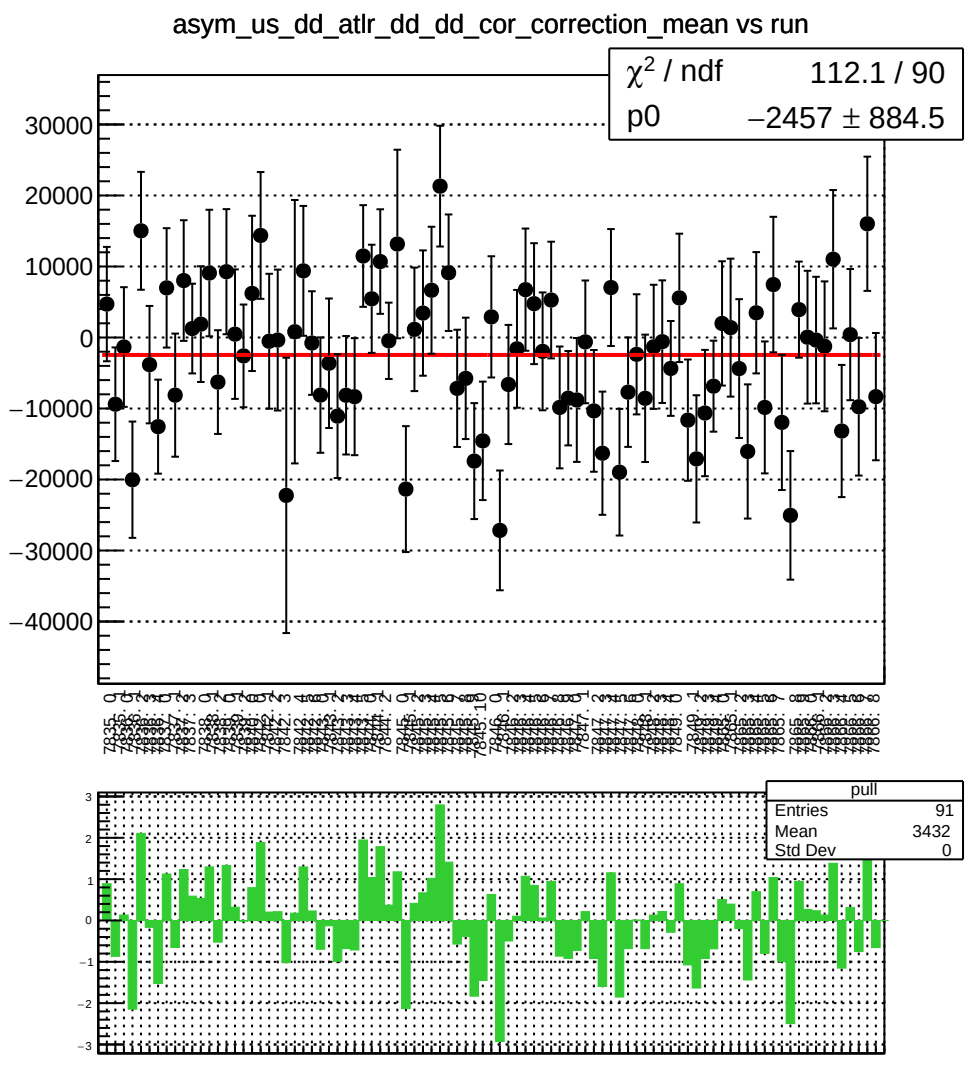

pull1D
Entries 91
Mean −0.001369
Std Dev 1.11

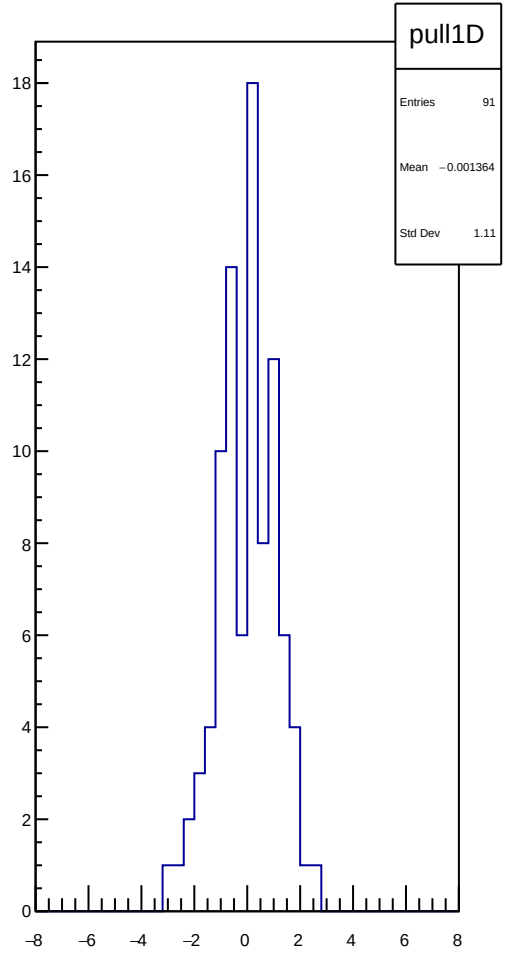

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.924e+04 / 90
p0 824 ± 0.6254
1800
1600
1400
1200
1000
800
600

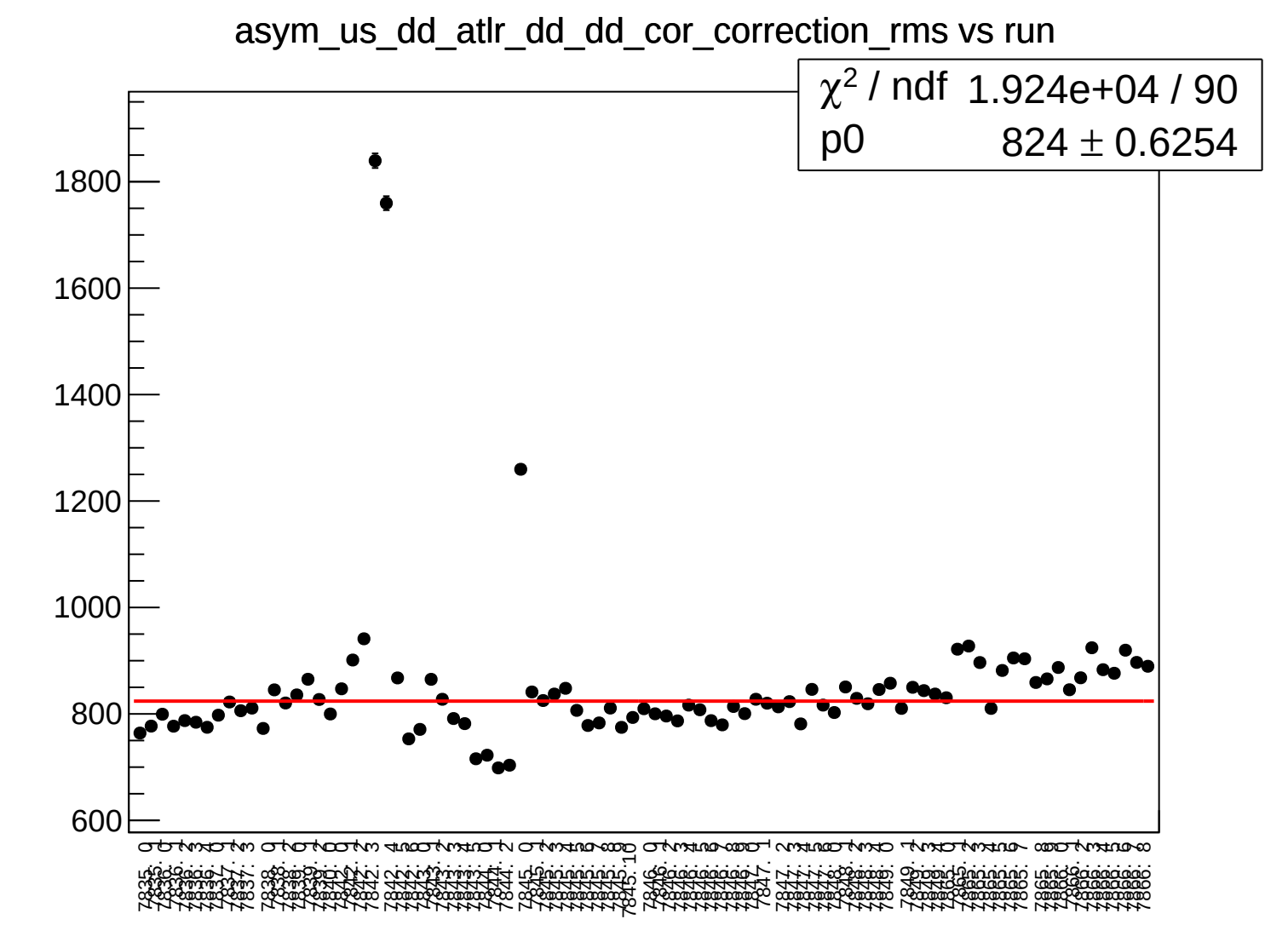

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 74.09 / 90
p0 971.3 ± 1201
pull
Entries 91
Mean 61.86
Std Dev 78.55

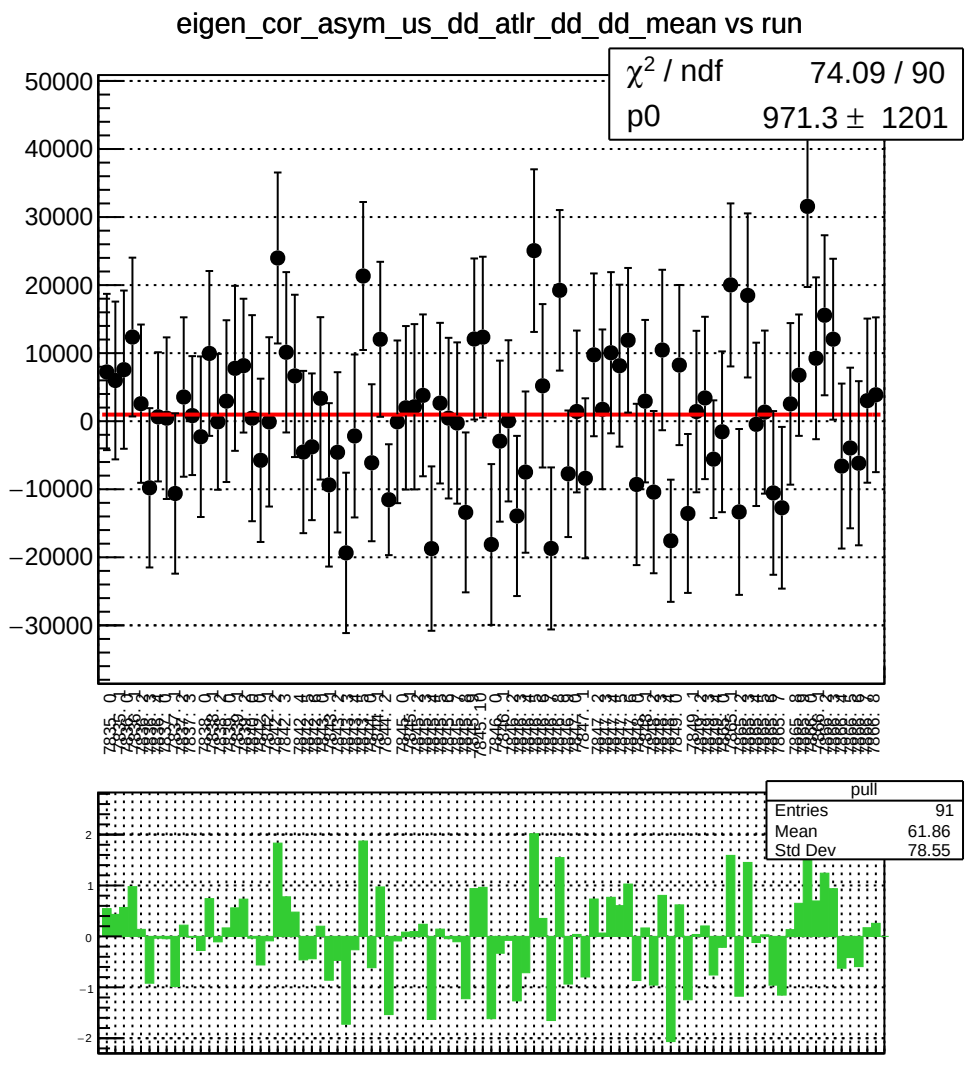

pull1D
Entries 91
Mean 0.01478
Std Dev 0.9022

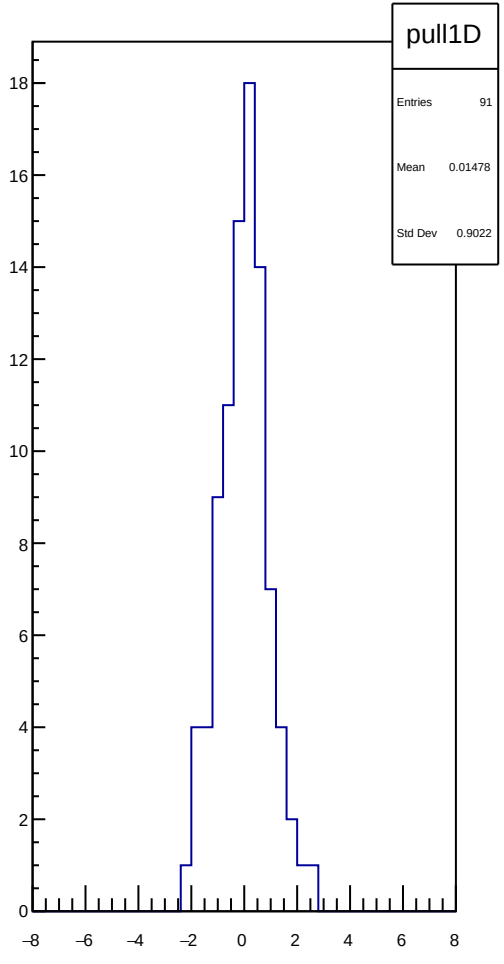

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 452.9 / 90
p0 1125 ± 0.8491
1200
1180
1160
1140
1120
1100
1080
1060

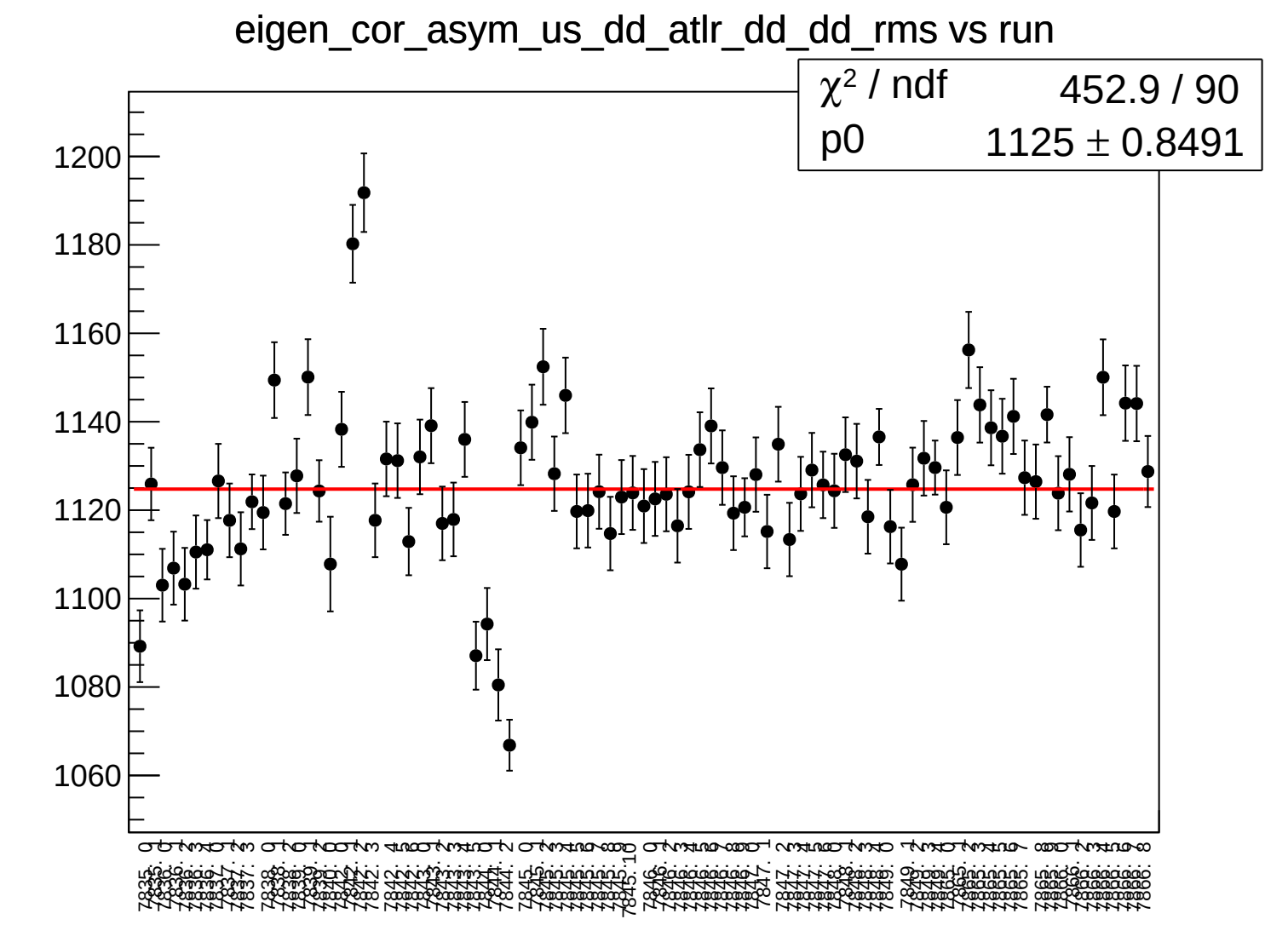

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −2457 ± 884.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 3432
Std Dev 0
3
2
1
0
−1
−2
−3

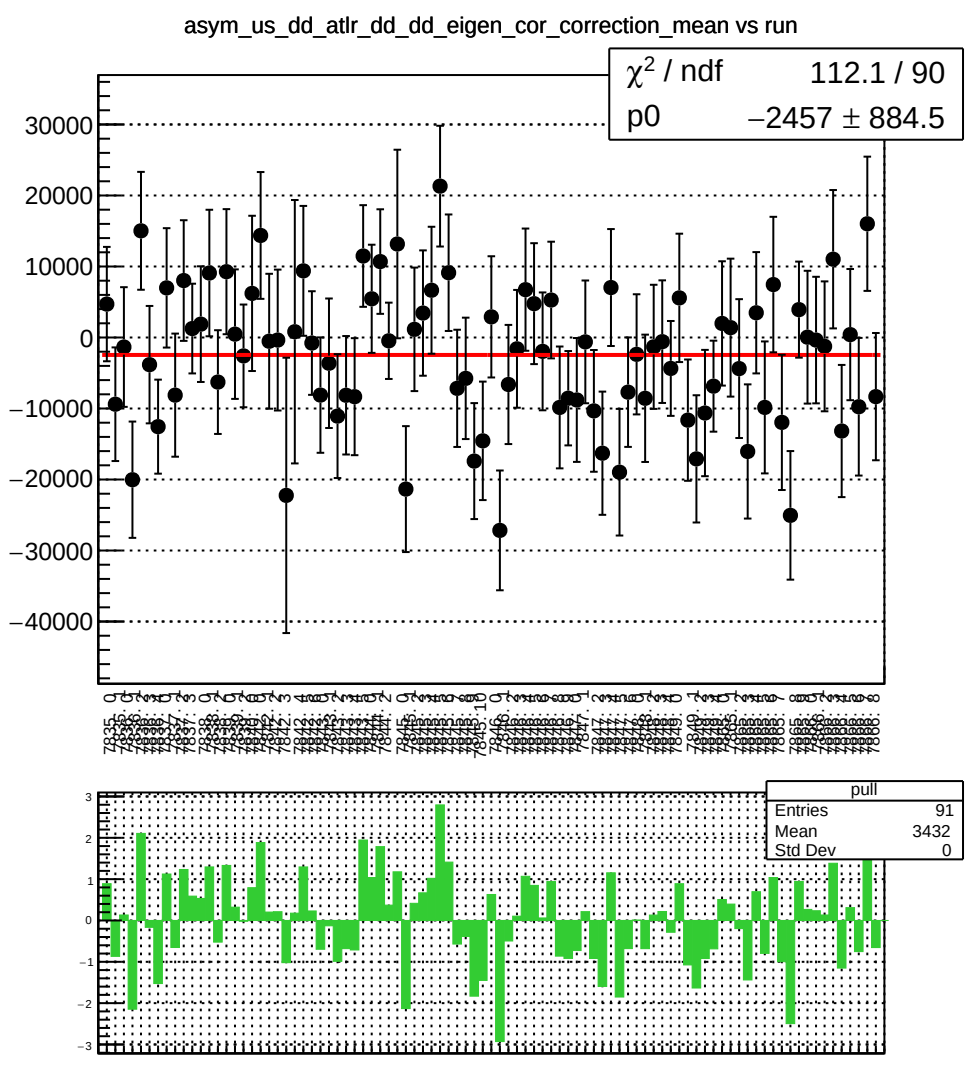

pull1D
Entries 91
Mean −0.001364
Std Dev 1.11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

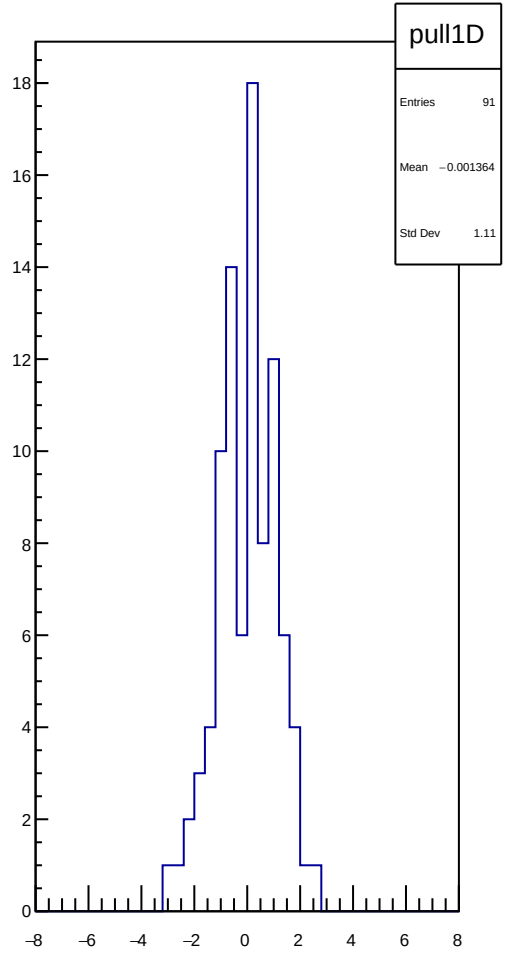

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.924e+04 / 90
p0 824 ± 0.6254
1800
1600
1400
1200
1000
800
600


eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 74.09 / 90
p0 971.3 ± 1201
pull
Entries 91
Mean 61.86
Std Dev 78.55


pull1D
Entries 91
Mean 0.01478
Std Dev 0.9022


eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 452.9 / 90
p0 1125 ± 0.8491
1200
1180
1160
1140
1120
1100
1080
1060


asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −2457 ± 884.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 3432
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.001364
Std Dev 1.11
18
16
14
12
10
8
6
4
2
0
−8
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−4
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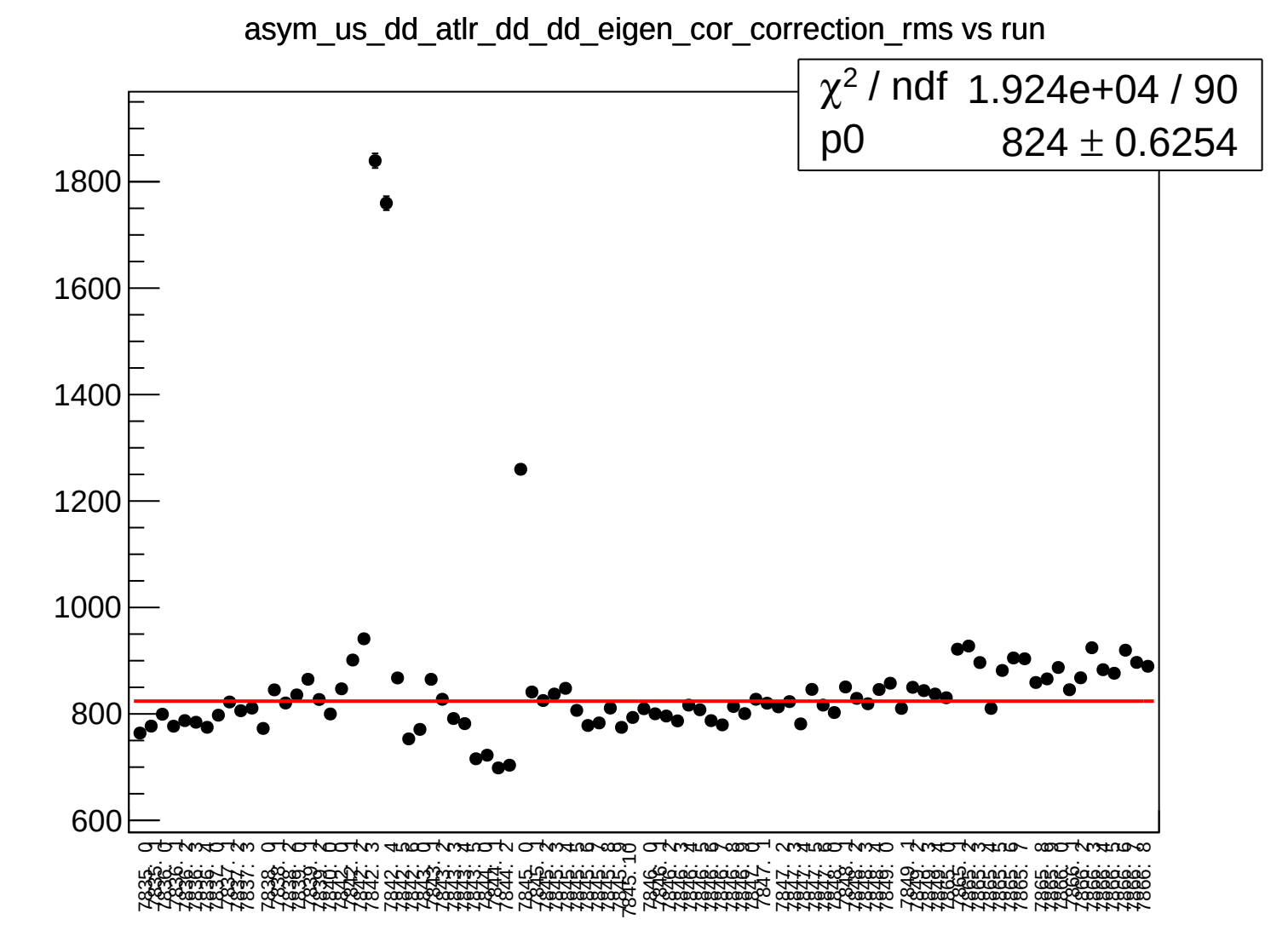
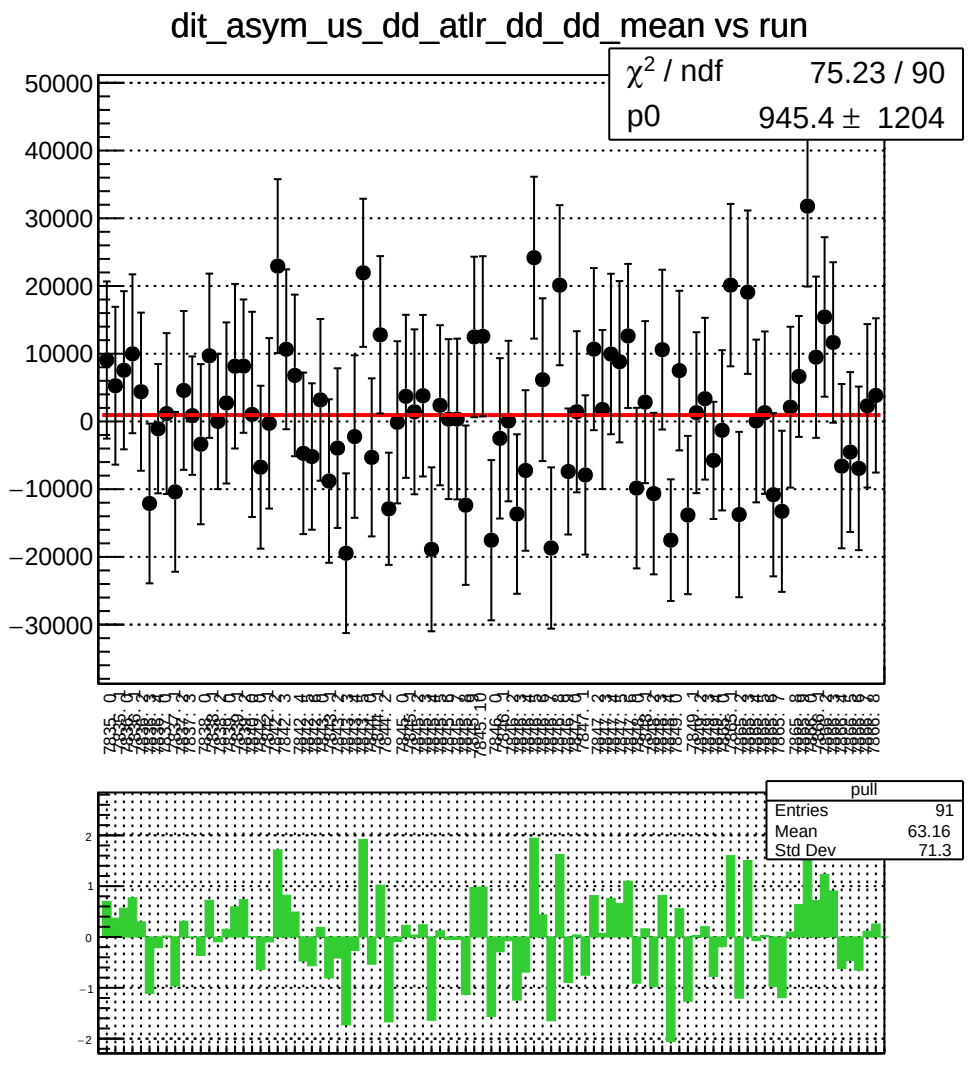
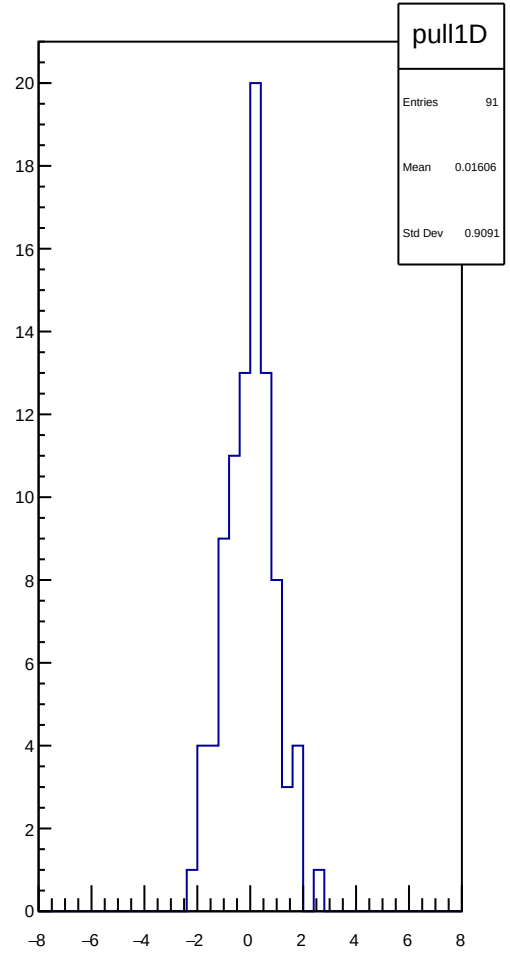
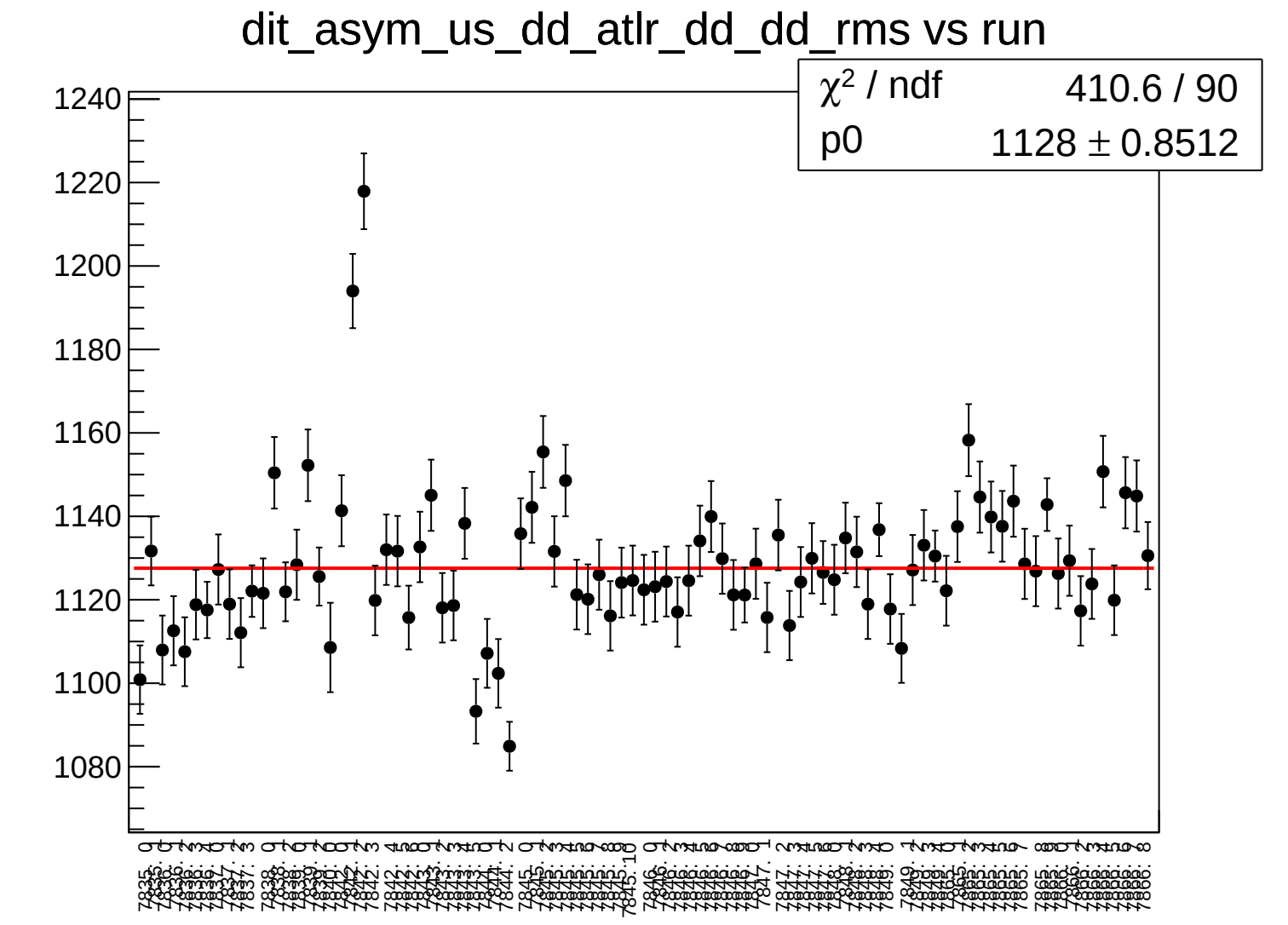
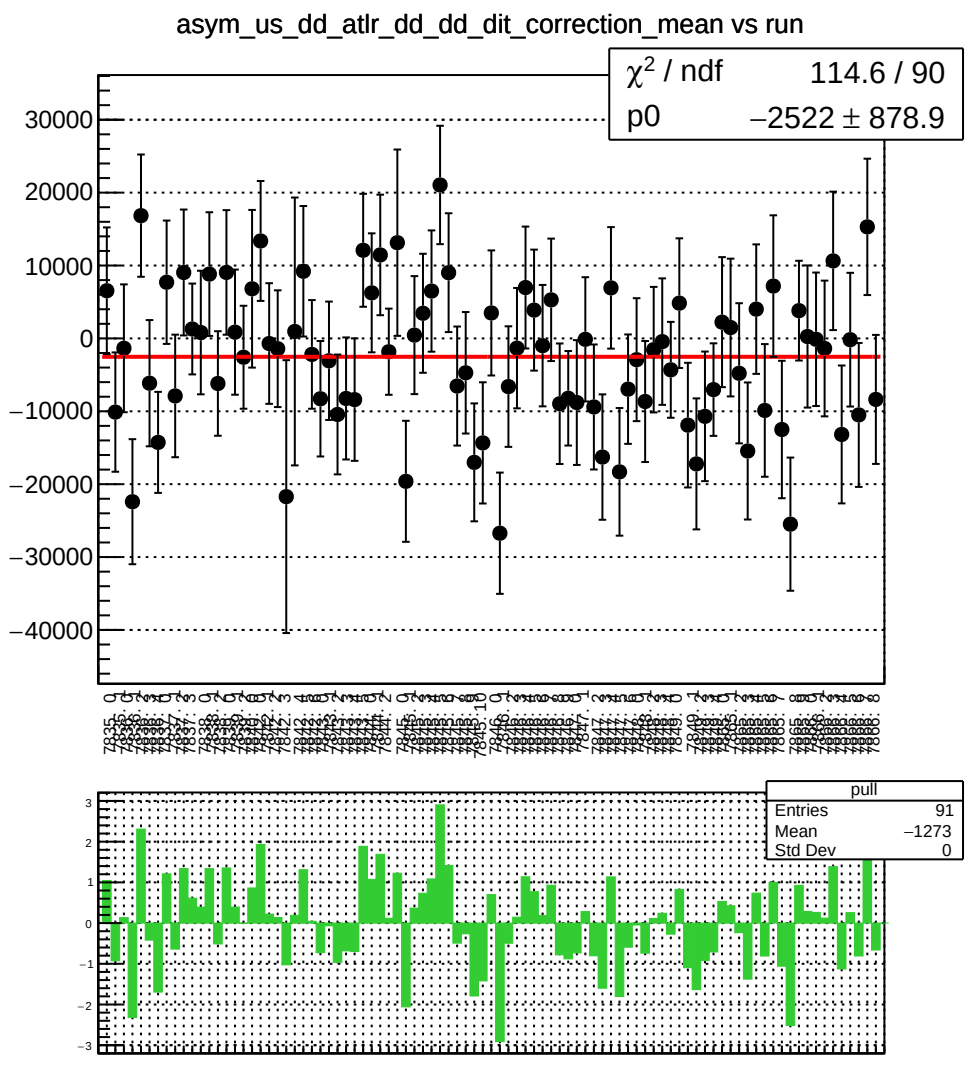
2
4
6
8

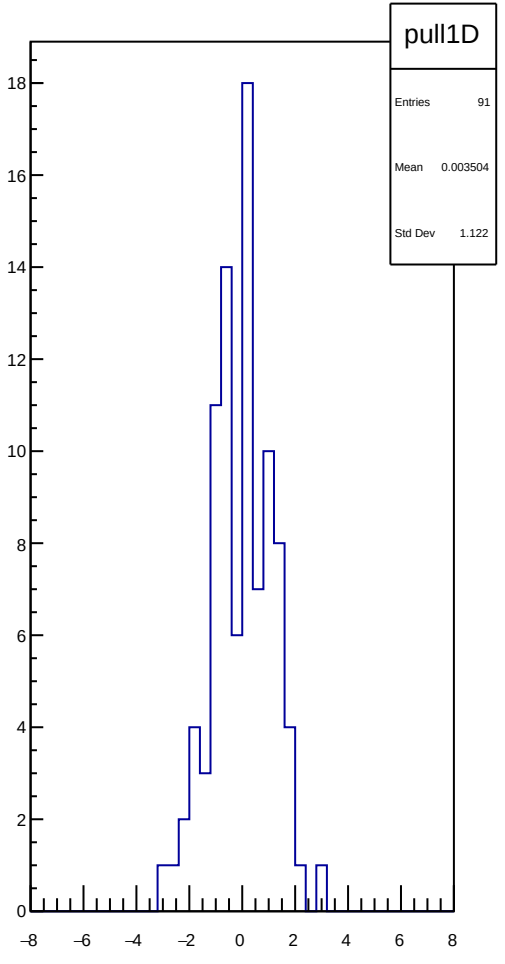

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.924e+04 / 90
p0 824 ± 0.6254
1800
1600
1400
1200
1000
800
600

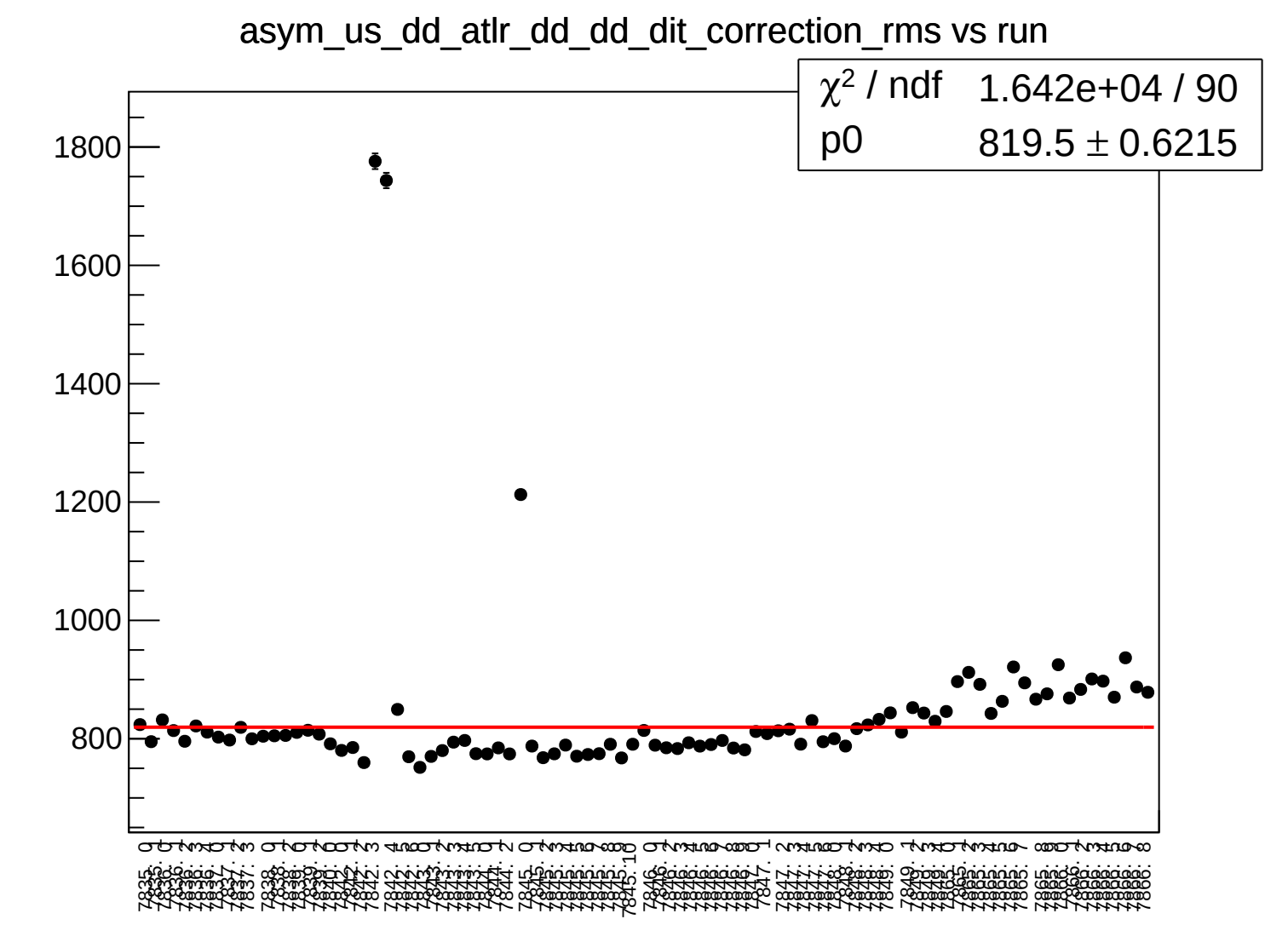

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 75.23 / 90
p0 945.4 ± 1204
pull
Entries 91
Mean 63.16
Std Dev 71.3

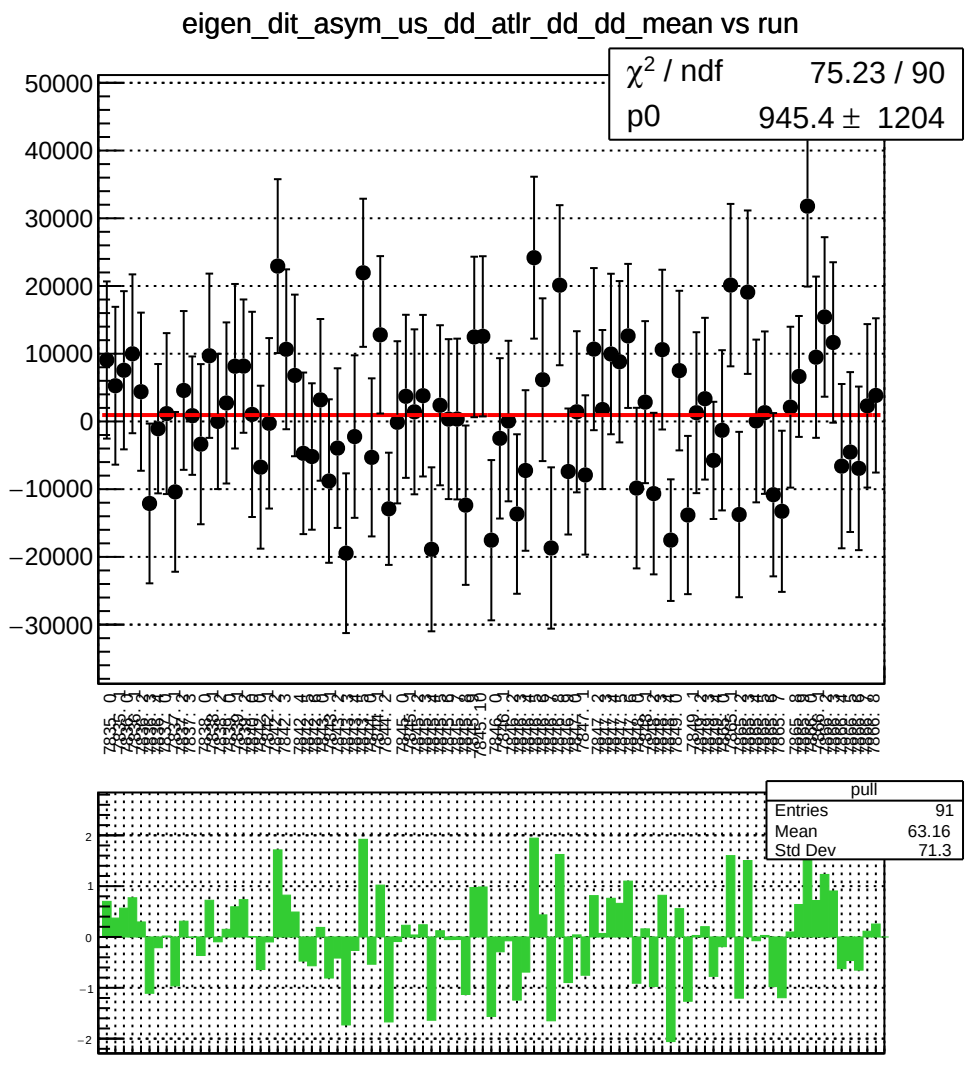

pull1D
Entries 91
Mean 0.01606
Std Dev 0.9091

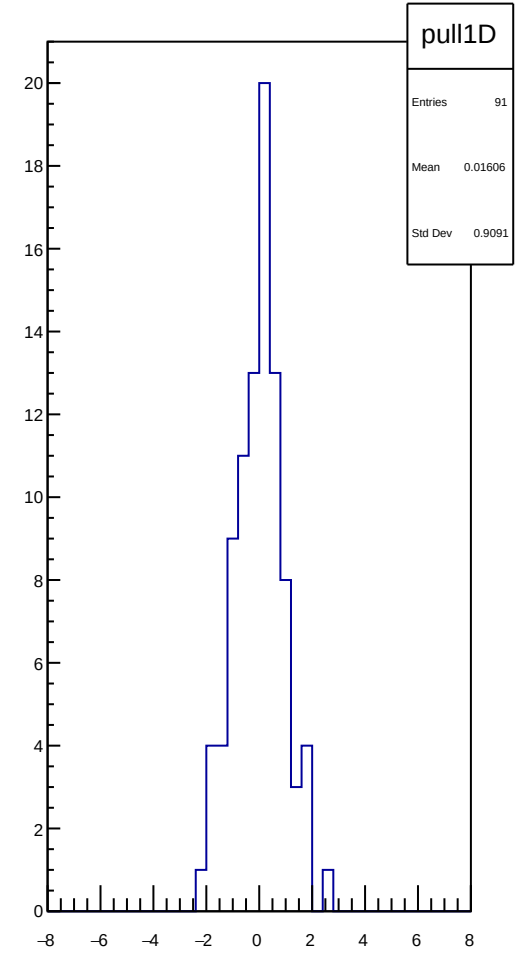

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 410.6 / 90
p0 1128 ± 0.8512
1240
1220
1200
1180
1160
1140
1120
1100
1080

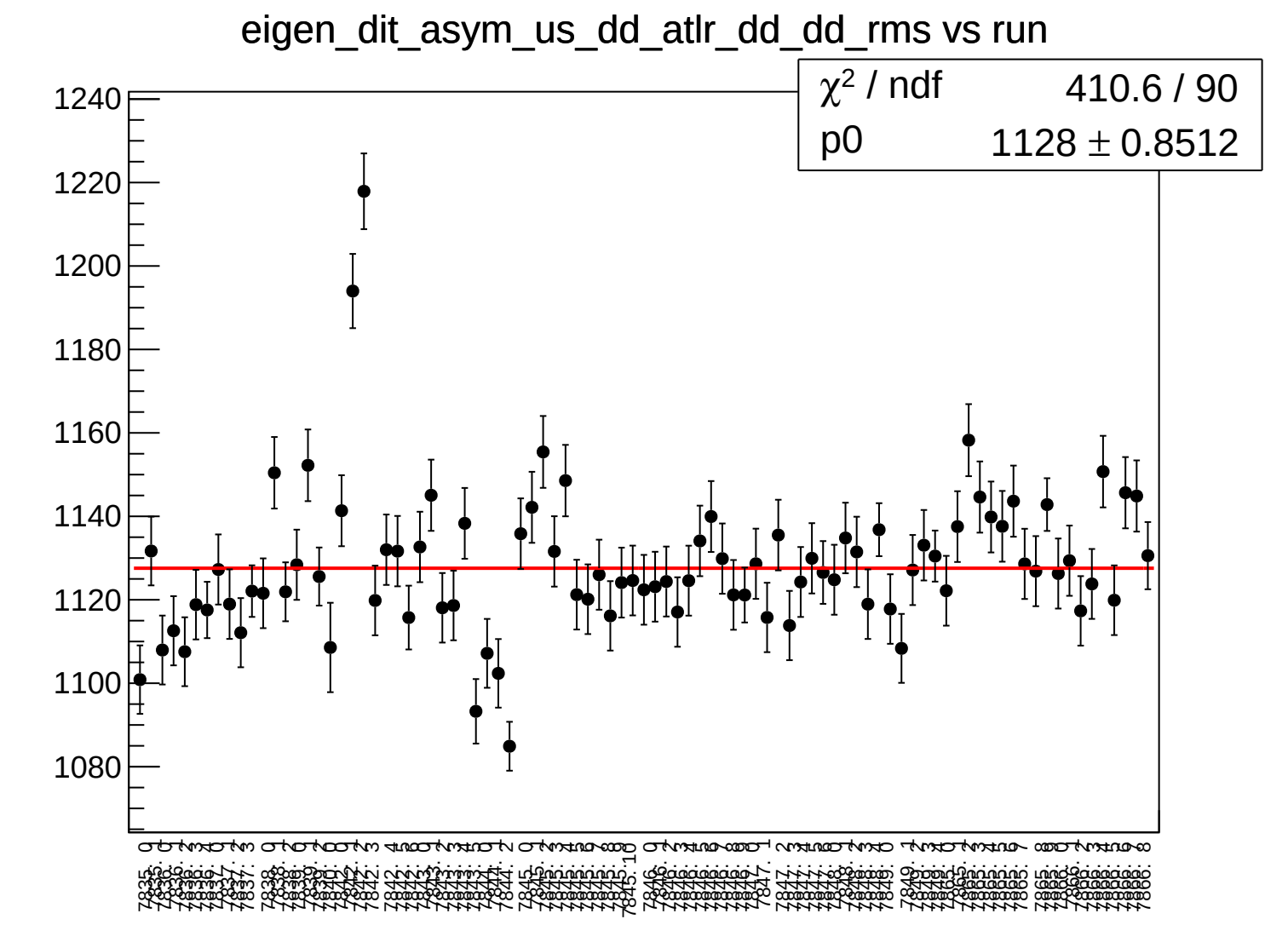

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 114.6 / 90
p0 −2522 ± 878.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −1273
Std Dev 0
3
2
1
0
−1
−2
−3

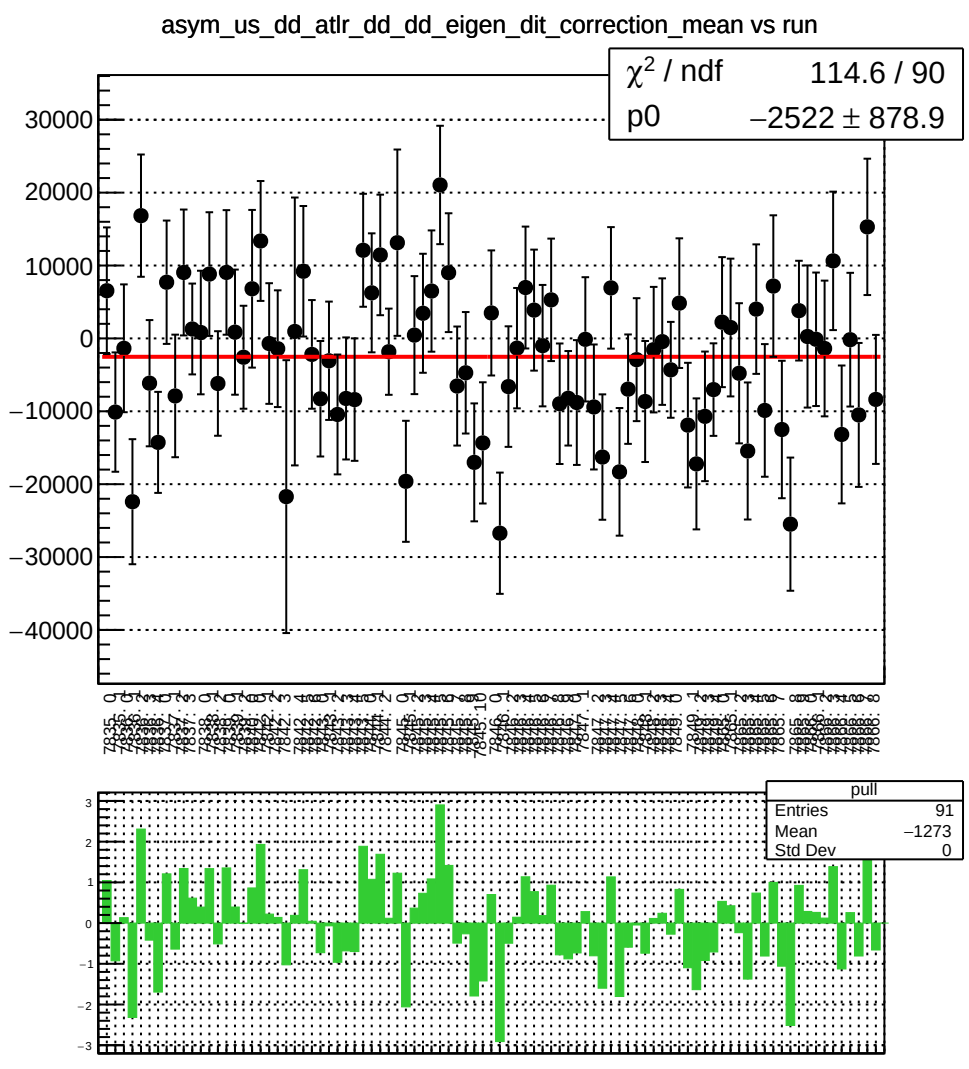

pull1D
Entries 91
Mean 0.003504
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

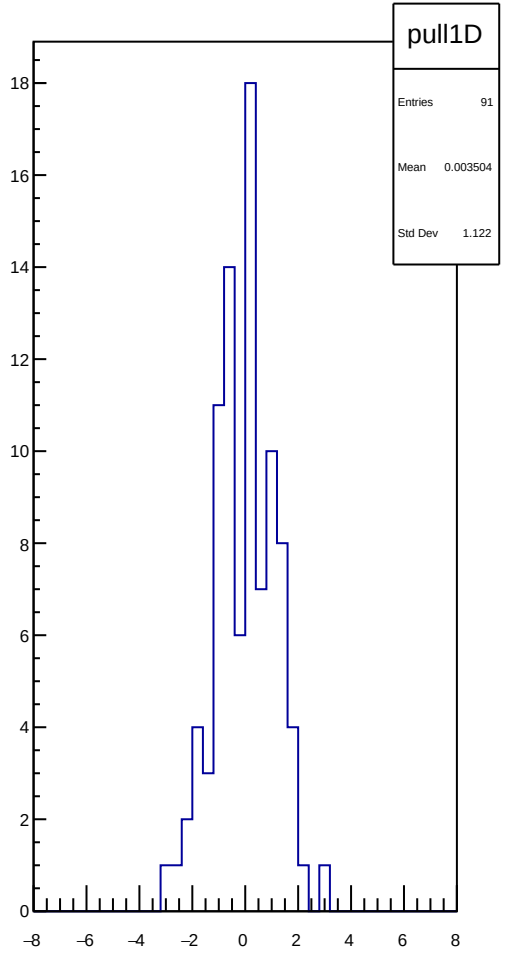

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.642e+04 / 90
p0 819.5 ± 0.6215
1800
1600
1400
1200
1000
800

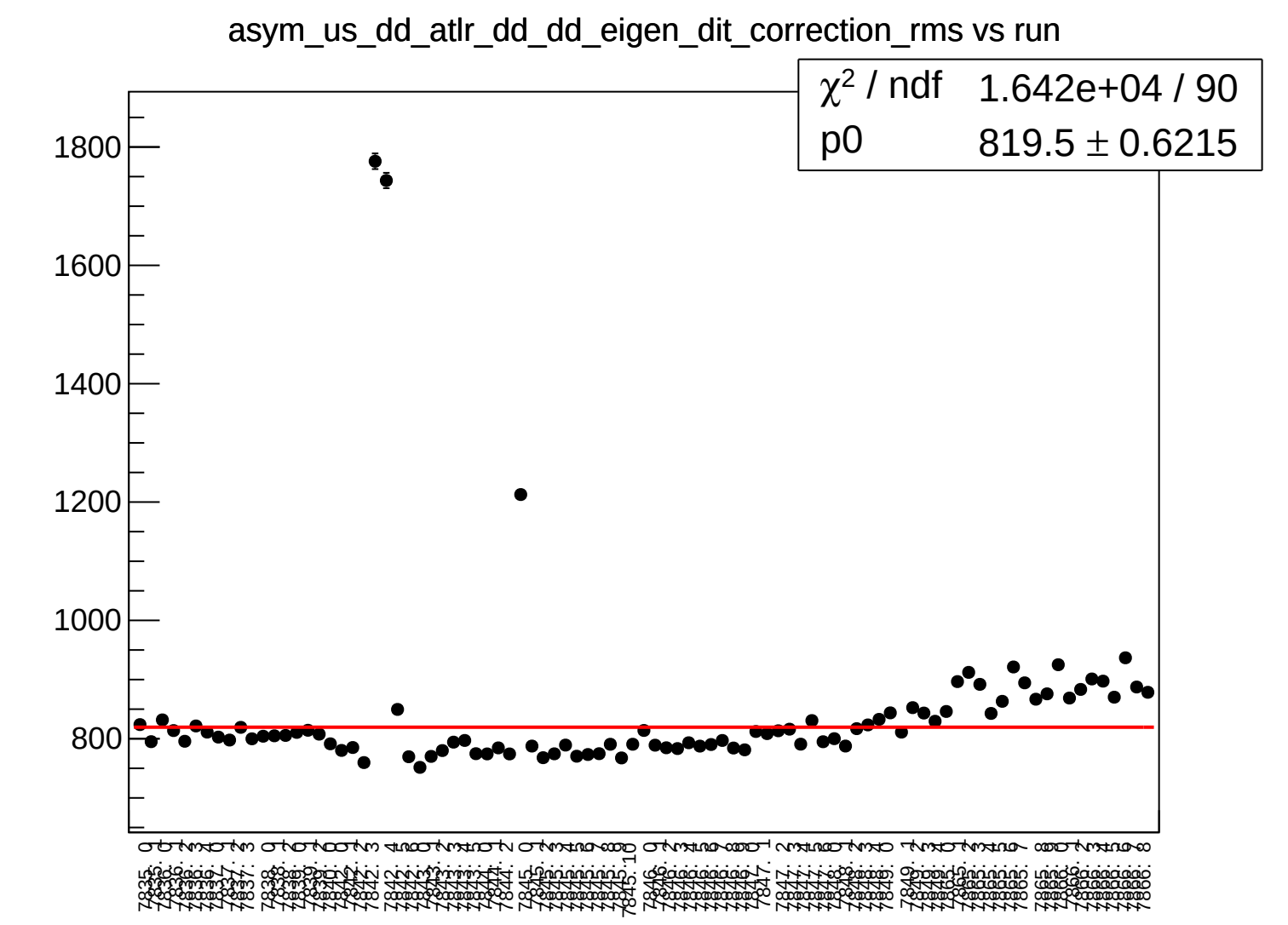

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 75.23 / 90
p0 945.4 ± 1204
pull
Entries 91
Mean 63.16
Std Dev 71.3

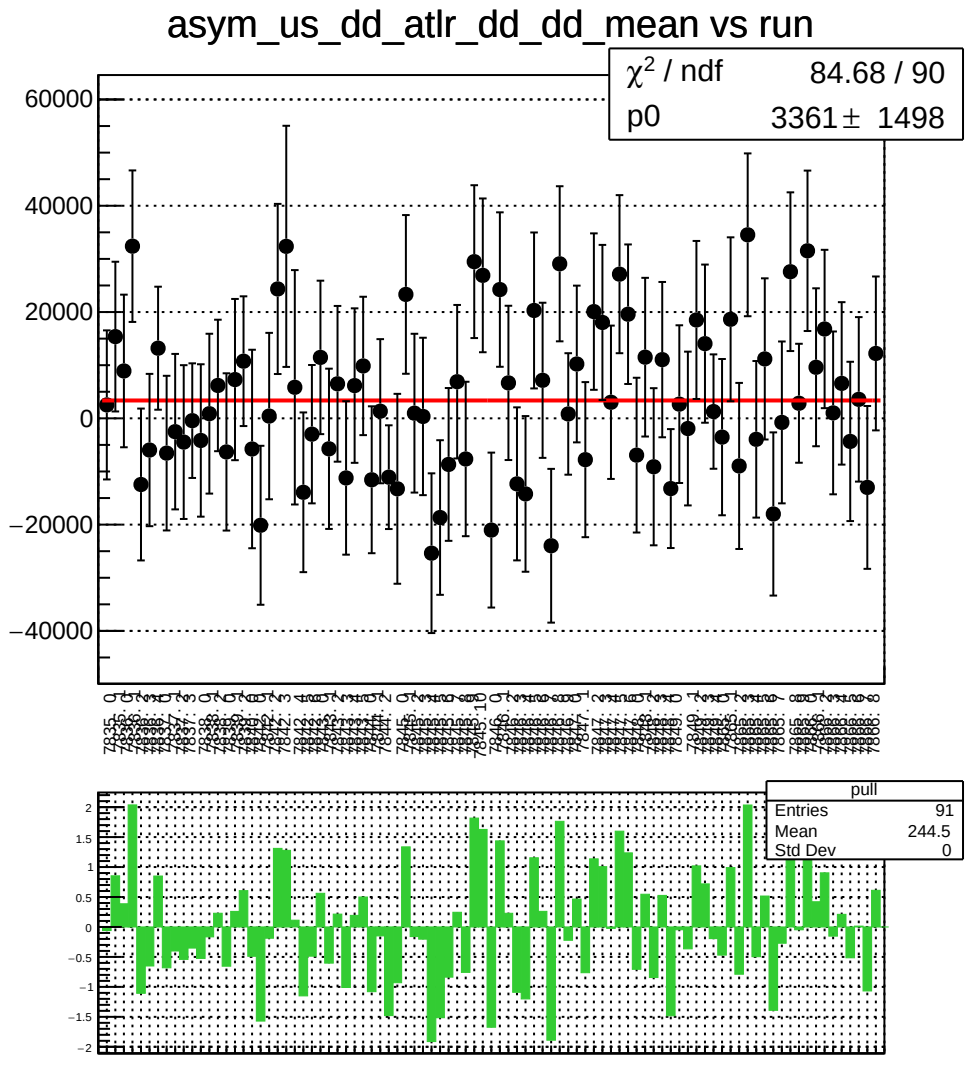

pull1D
Entries 91
Mean 0.01606
Std Dev 0.9091

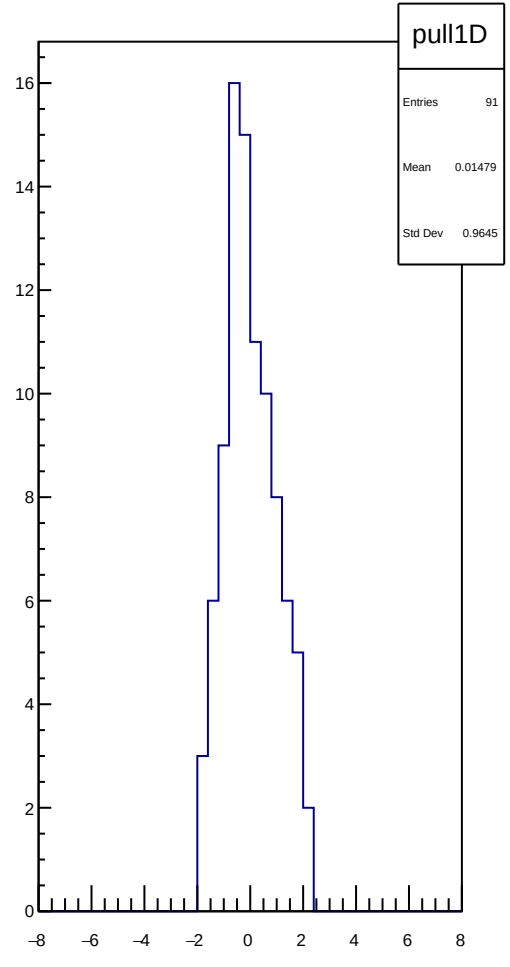

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 410.6 / 90
p0 1128 ± 0.8512
1240
1220
1200
1180
1160
1140
1120
1100
1080

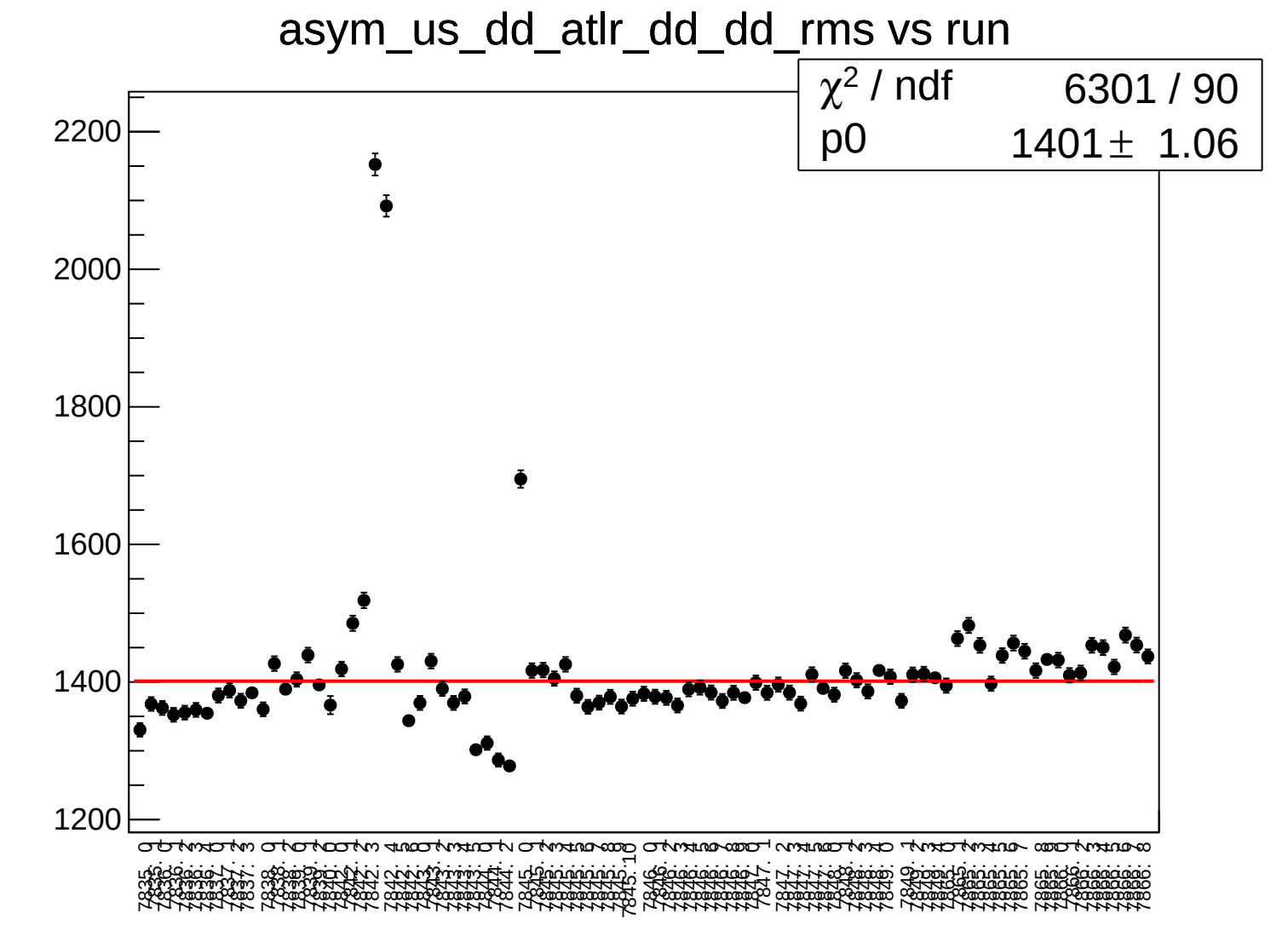

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.6 / 90
p0 −2522 ± 878.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −1273
Std Dev 0
3
2
1
0
−1
−2
−3

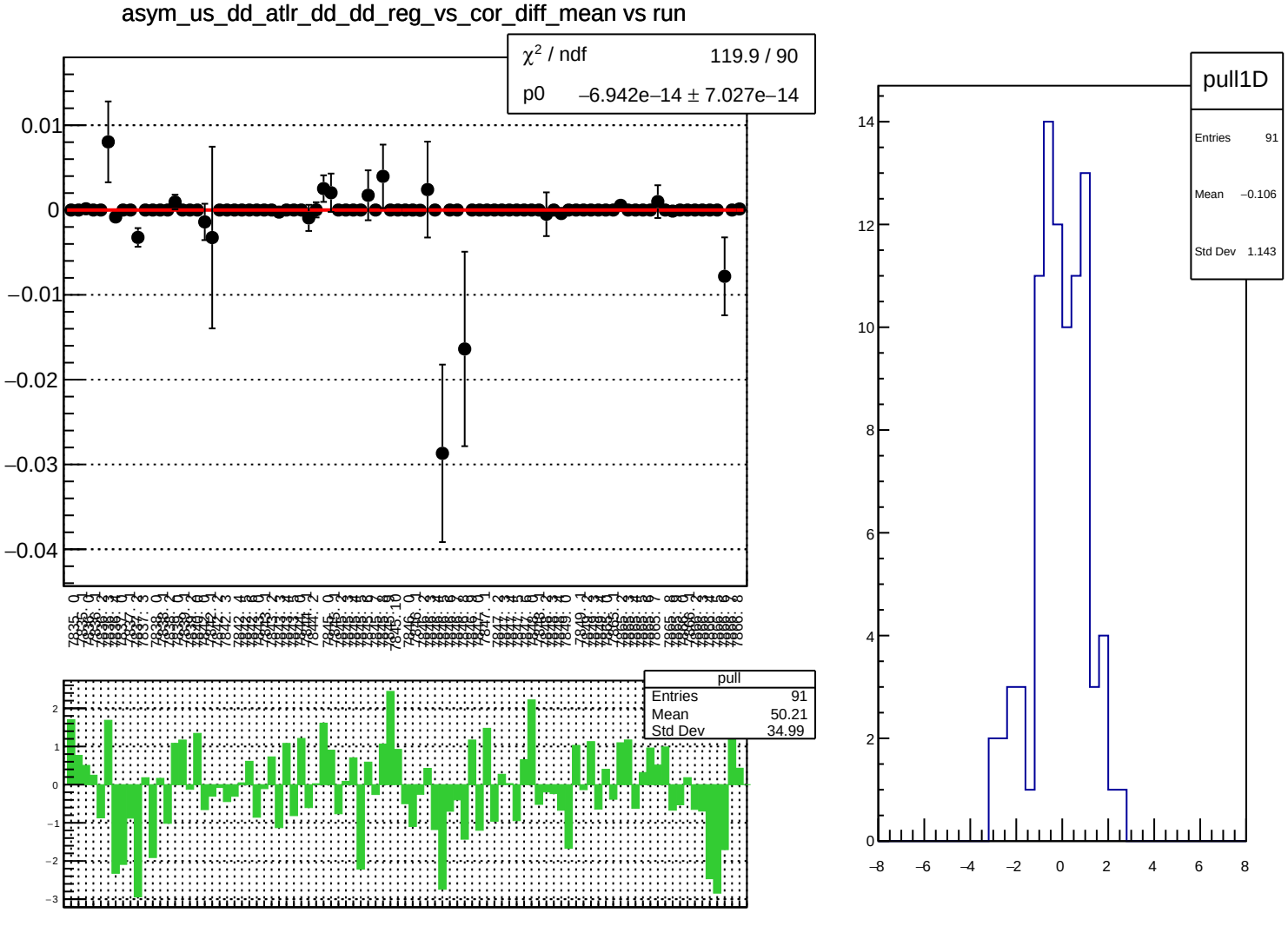

pull1D
Entries 91
Mean 0.003504
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

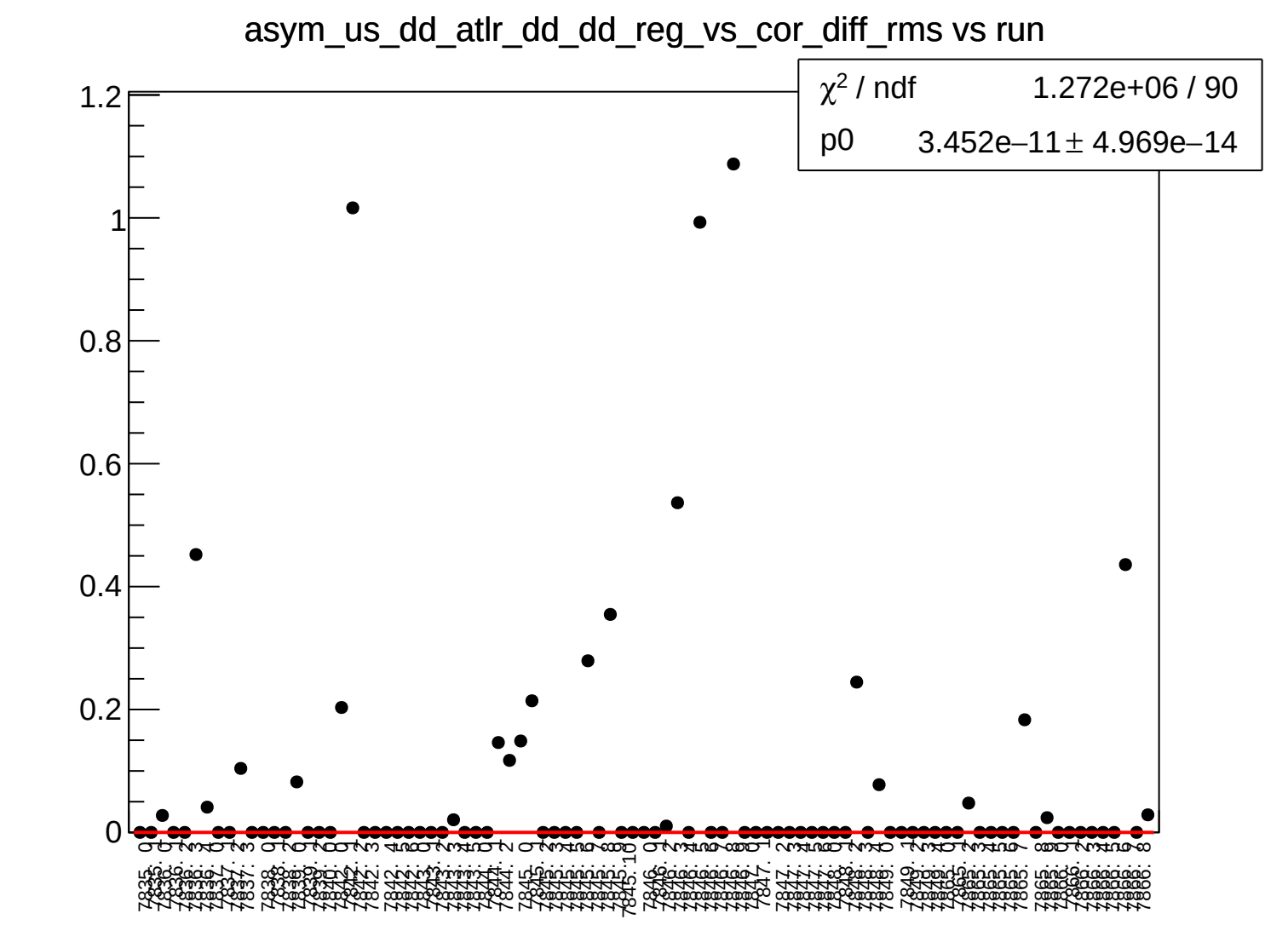

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.642e+04 / 90
p0 819.5 ± 0.6215
1800
1600
1400
1200
1000
800

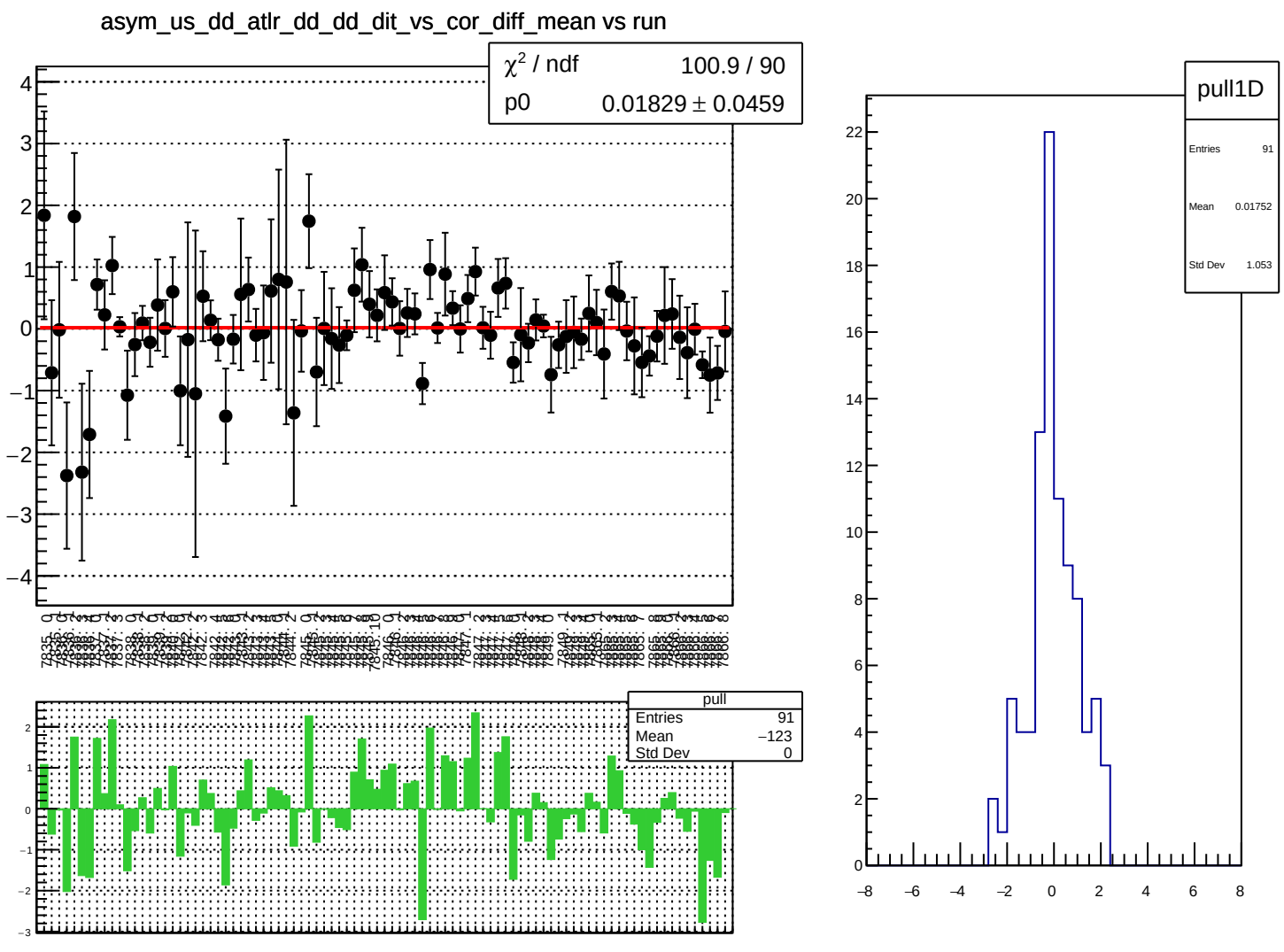

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.68 / 90
p0 3361 ± 1498
pull
Entries 91
Mean 244.5
Std Dev 0

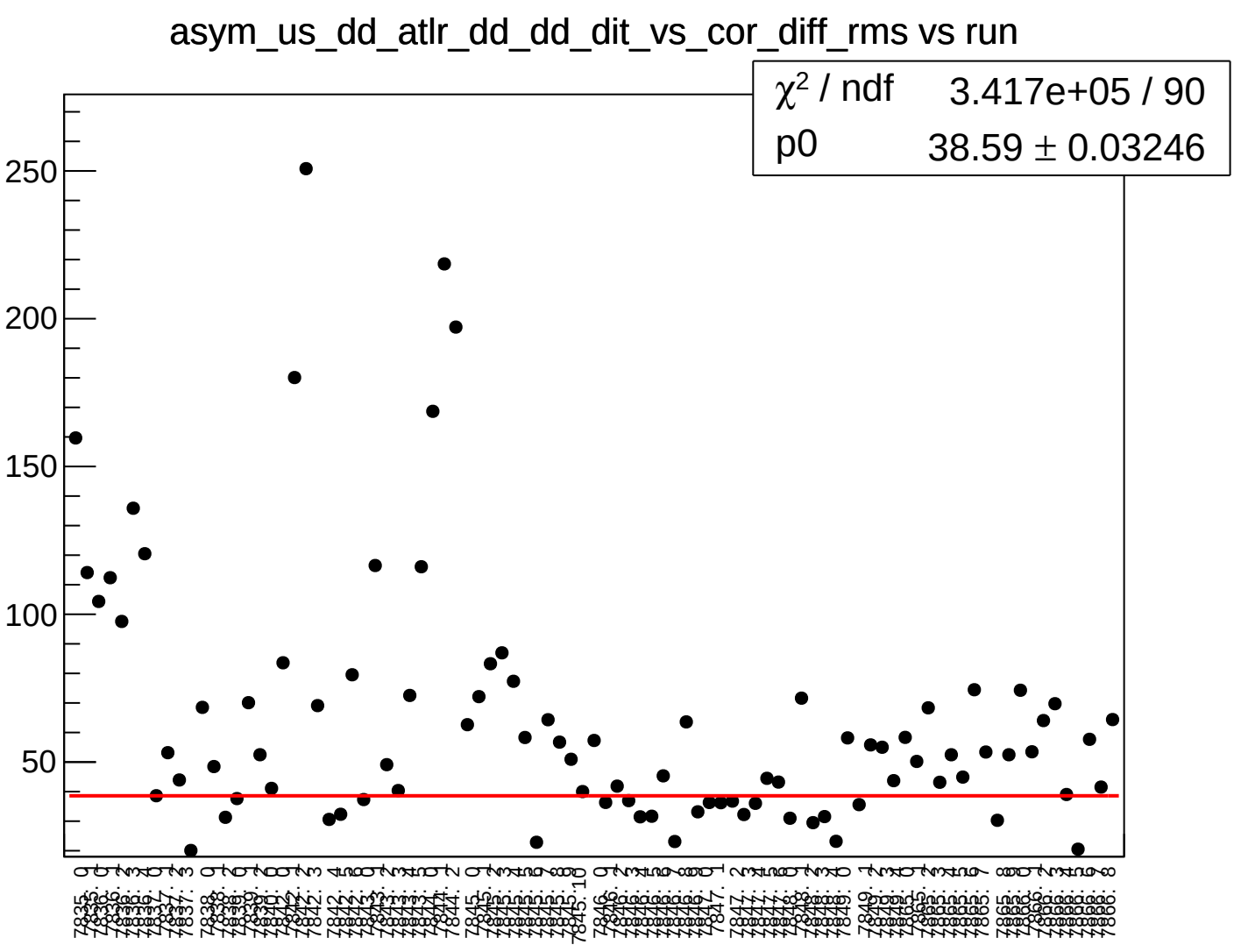

pull1D
Entries 91
Mean 0.01479
Std Dev 0.9645

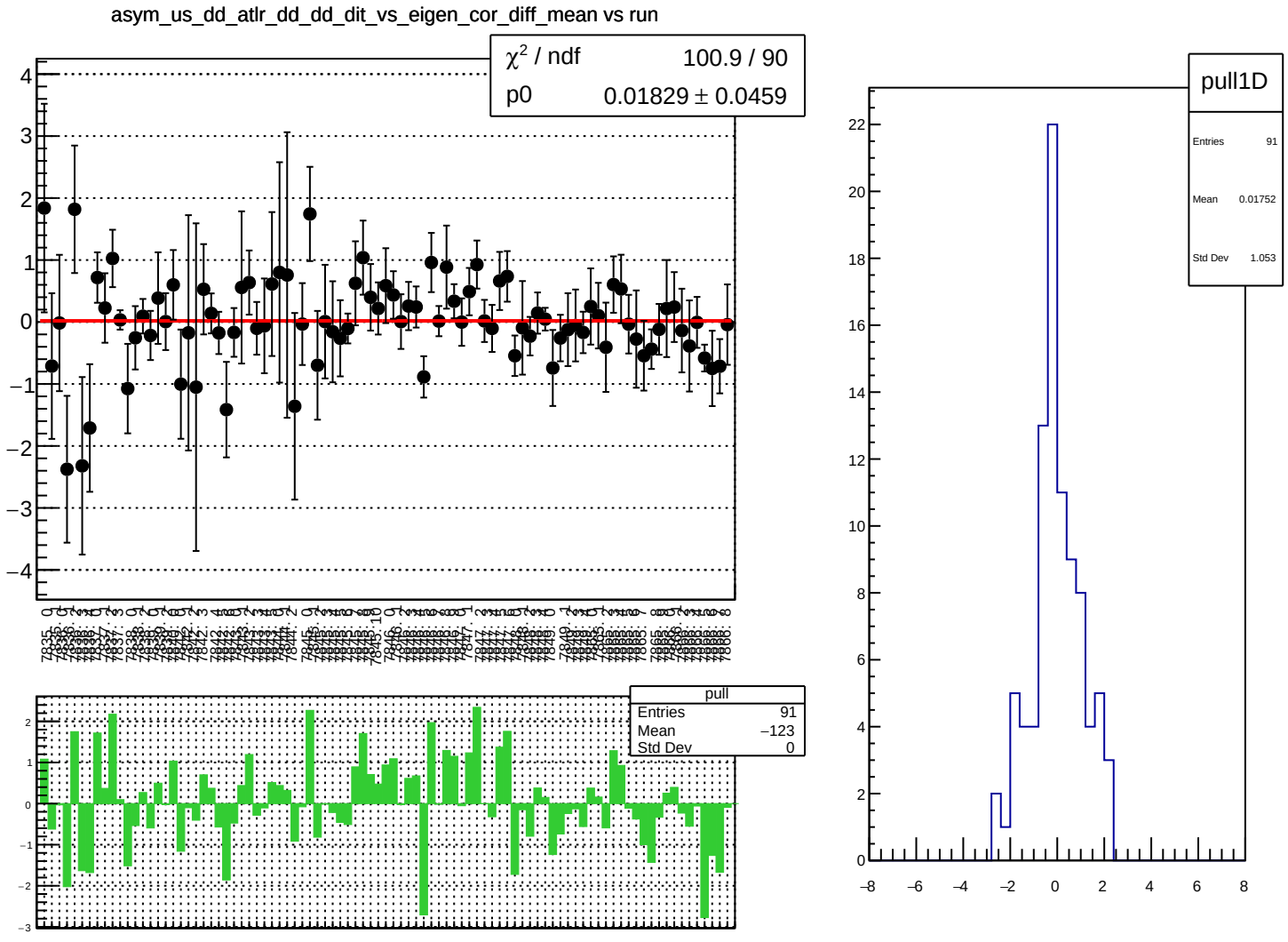

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 6301 / 90
p0 1401 ± 1.06
2200
2000
1800
1600
1400
1200

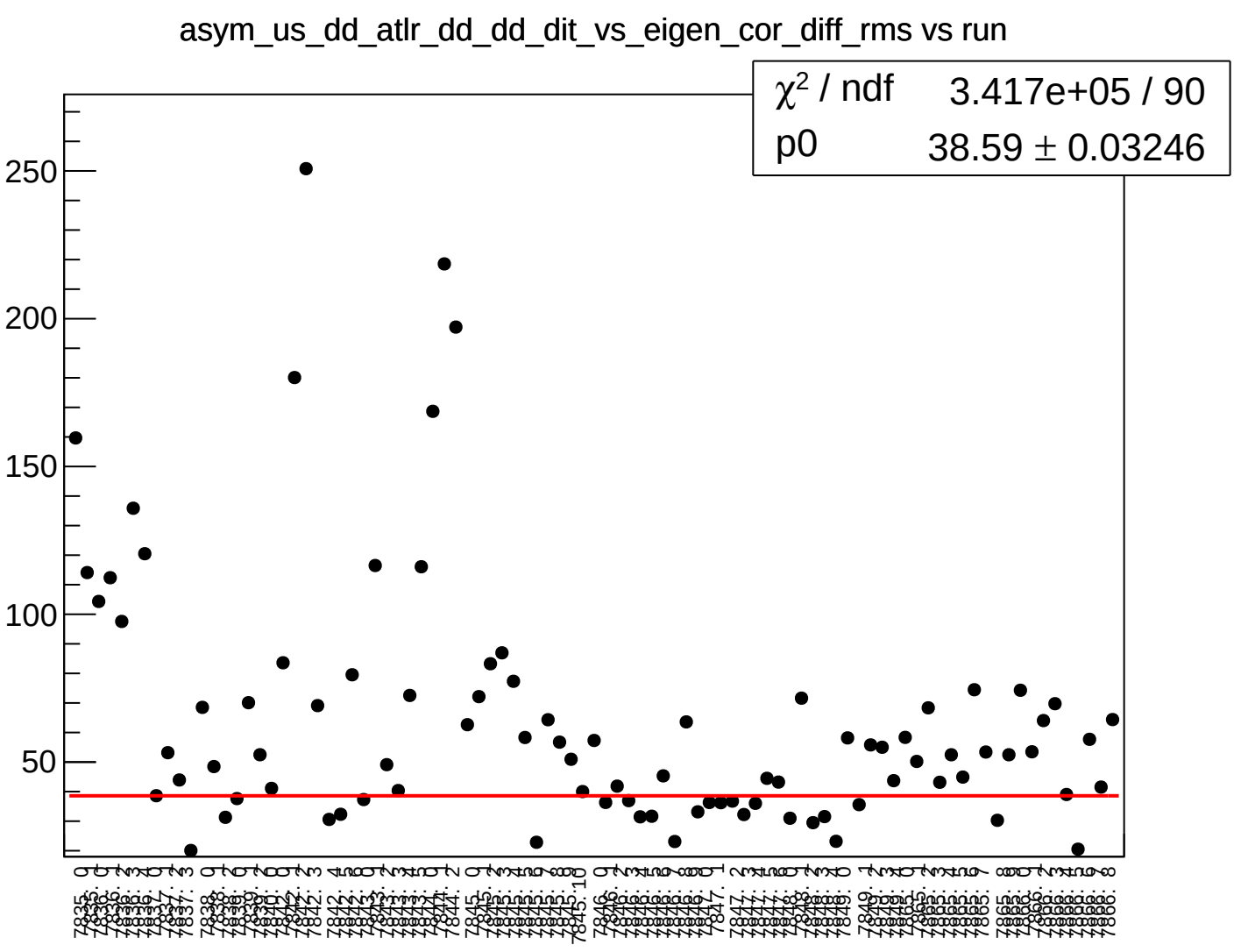

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 90
p0 −6.942e−14 ± 7.027e−14
pull
Entries 91
Mean 50.21
Std Dev 34.99
pull1D
Entries 91
Mean −0.106
Std Dev 1.143

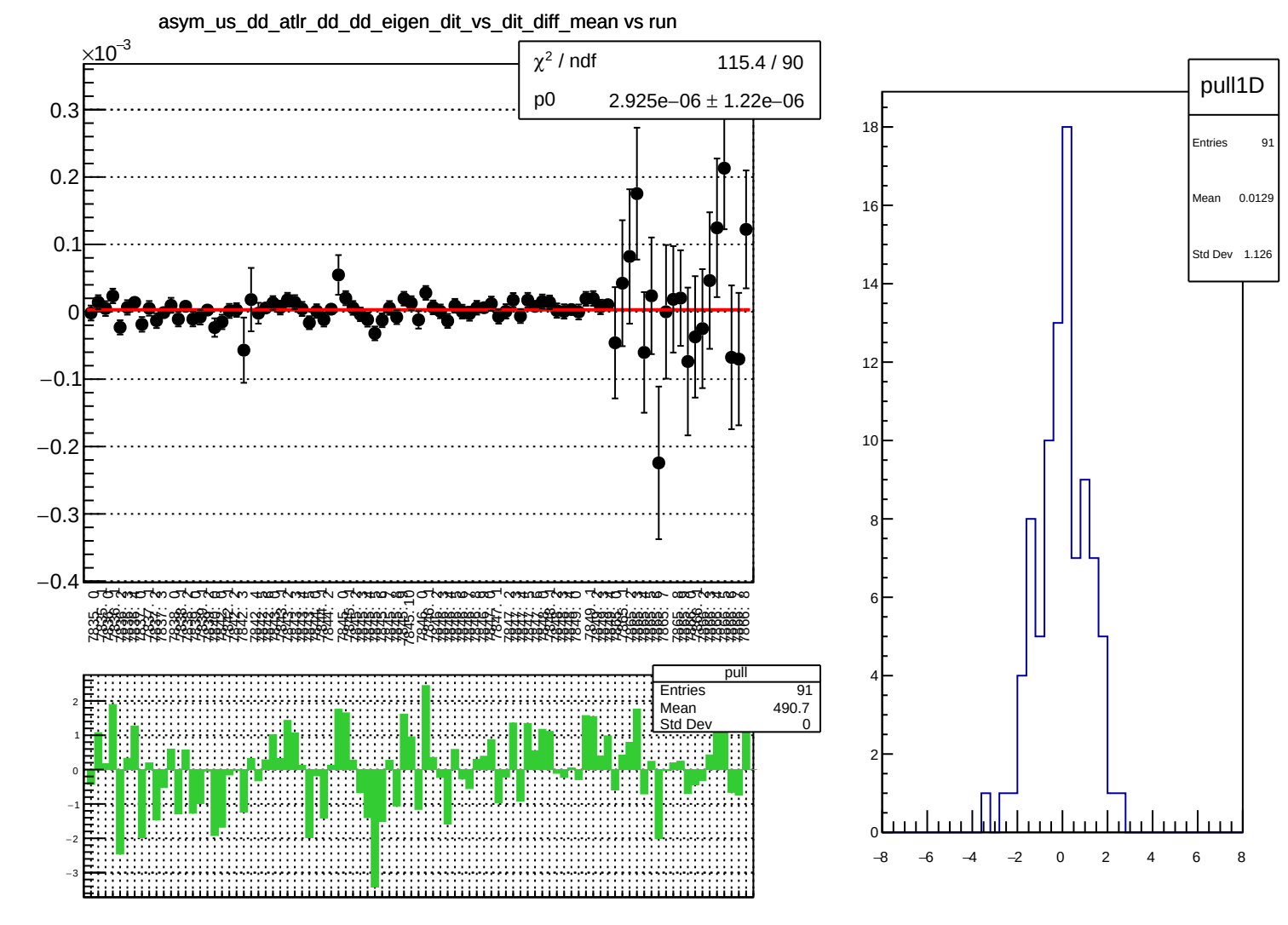

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.272e+06 / 90
p0 3.452e−11 ± 4.969e−14
1.2
1
0.8
0.6
0.4
0.2
0

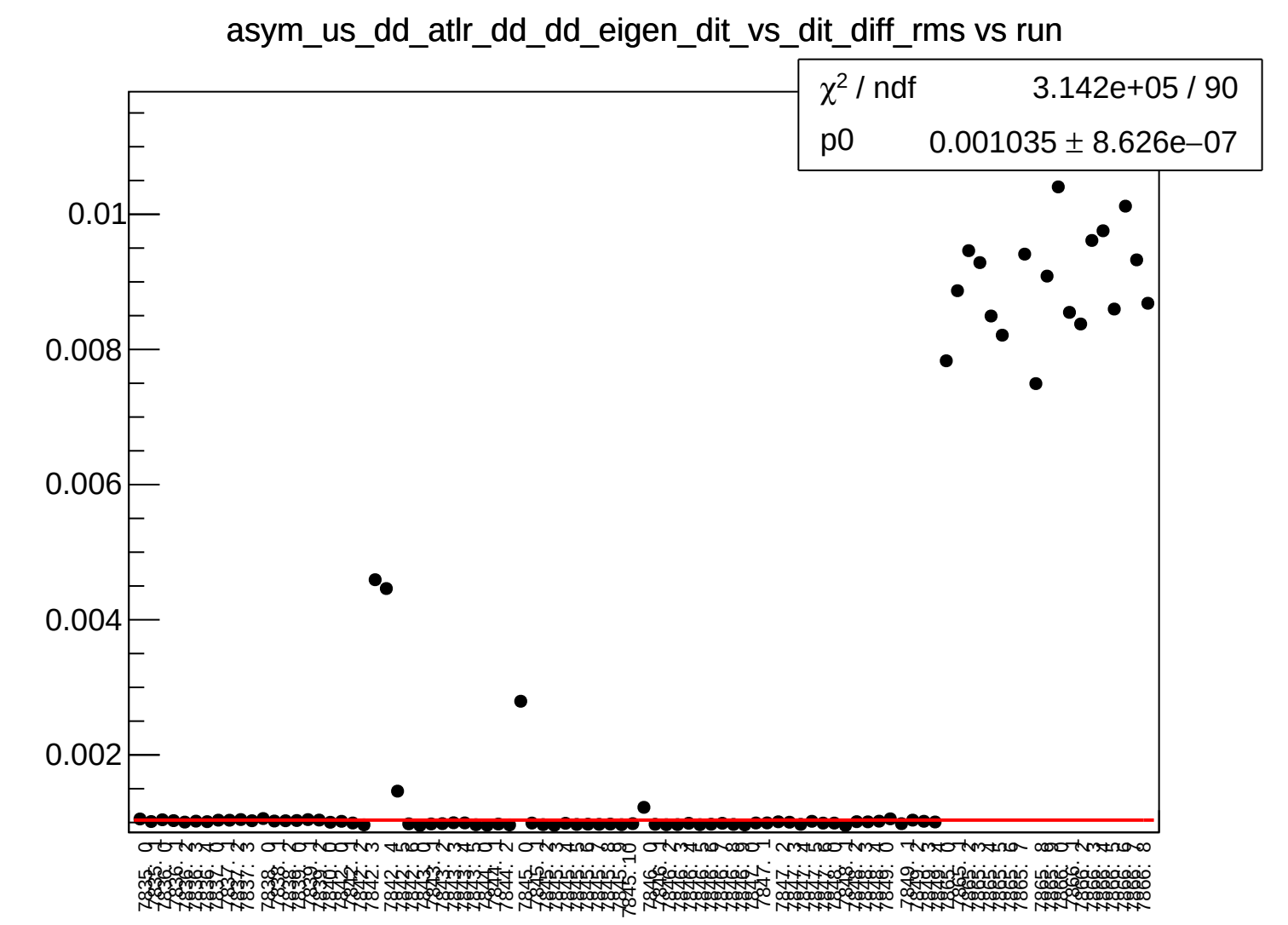

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01829 ± 0.0459
pull
Entries 91
Mean −123
Std Dev 0
pull1D
Entries 91
Mean 0.01752
Std Dev 1.053

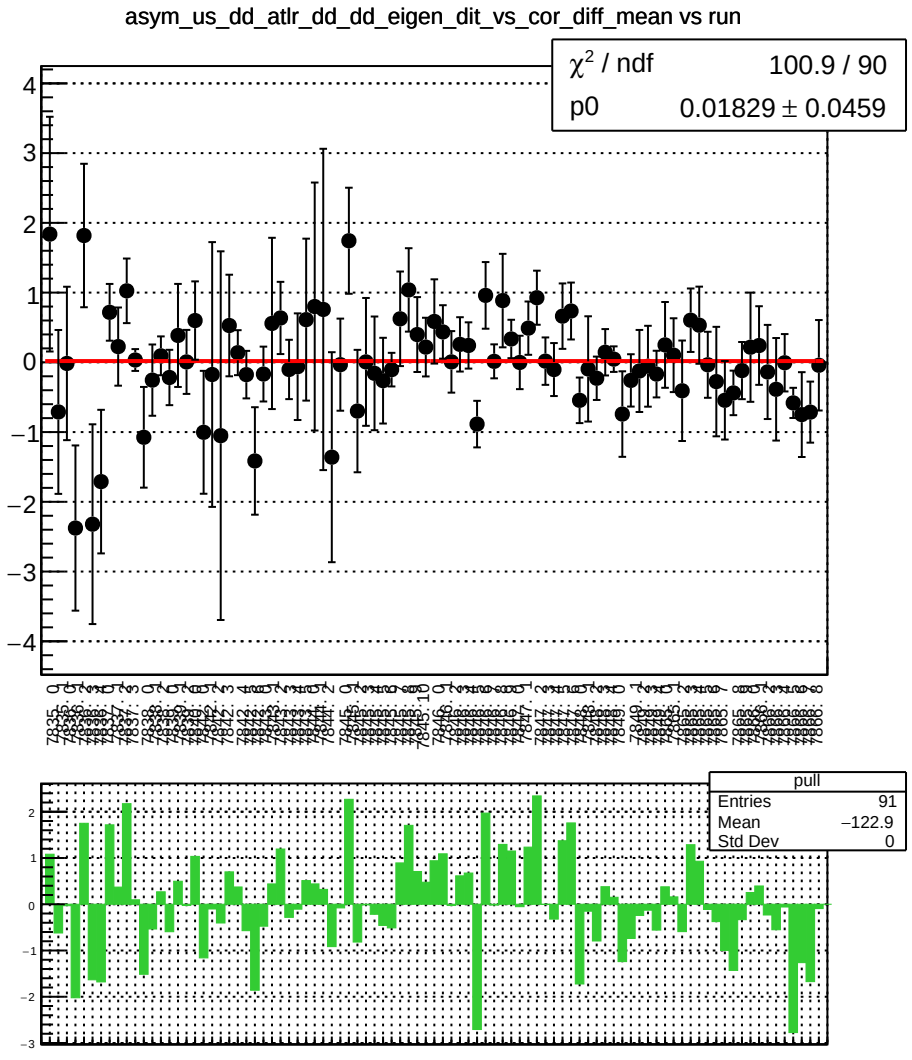

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 90
p0 38.59 ± 0.03246
250
200
150
100
50

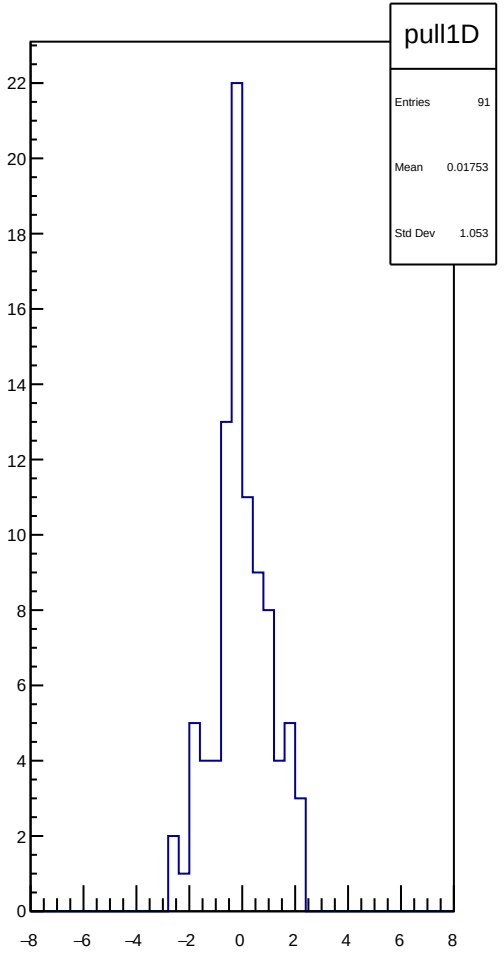

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01829 ± 0.0459
pull
Entries 91
Mean −123
Std Dev 0
pull1D
Entries 91
Mean 0.01752
Std Dev 1.053

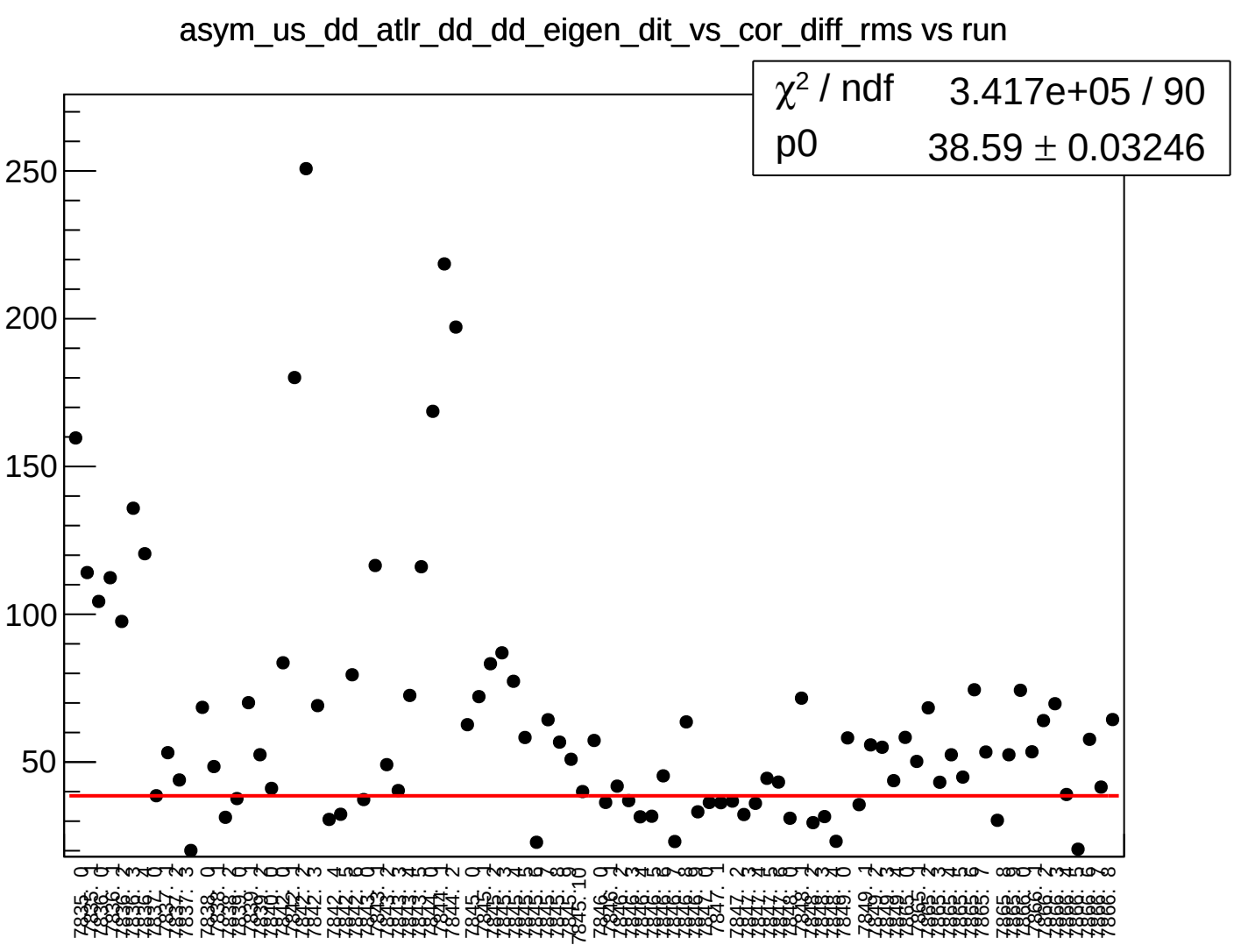

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 90
p0 38.59 ± 0.03246
250
200
150
100
50

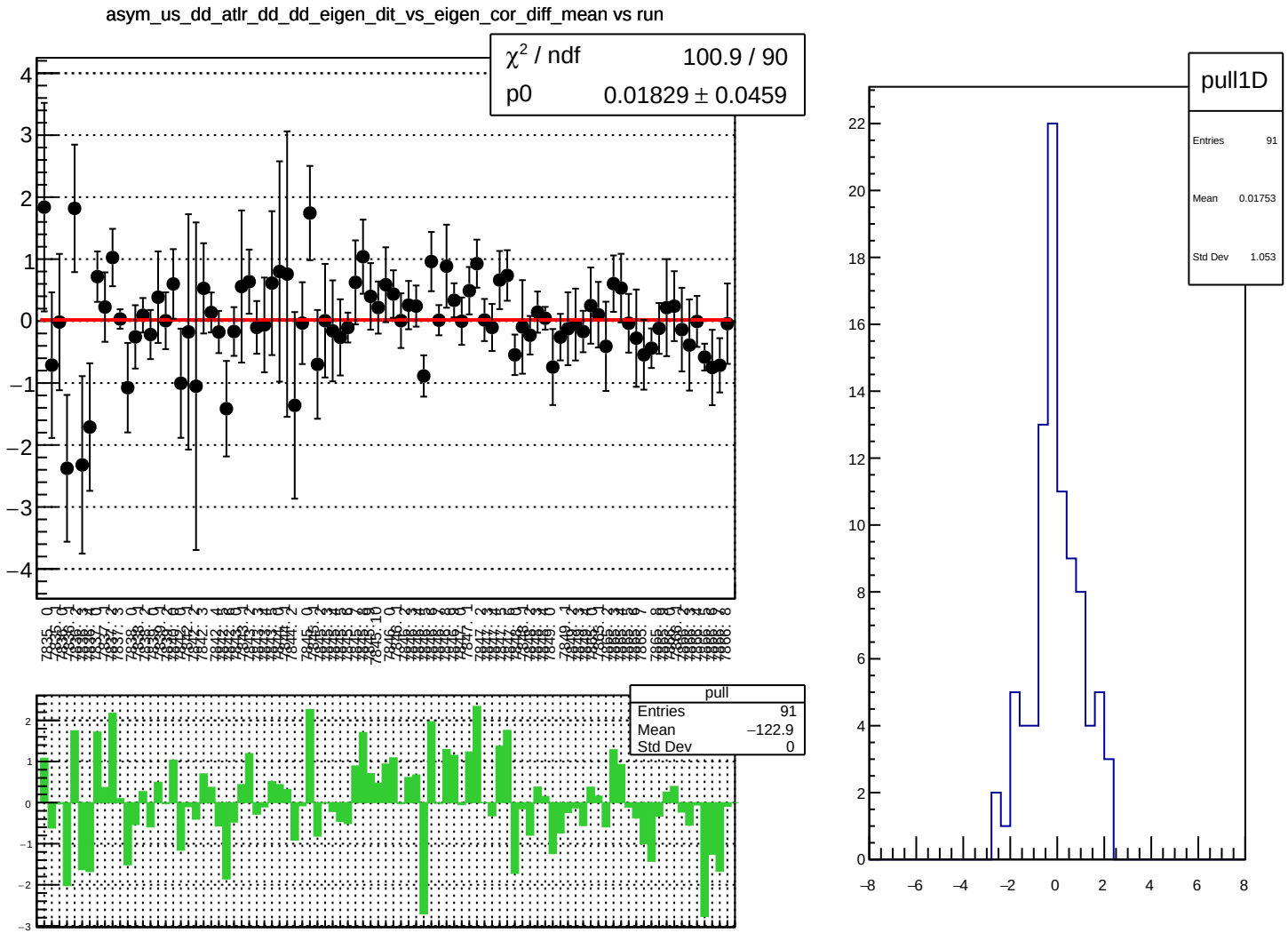

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 115.4 / 90
p0 2.925e−06 ± 1.22e−06
pull
Entries 91
Mean 490.7
Std Dev 0
pull1D
Entries 91
Mean 0.0129
Std Dev 1.126

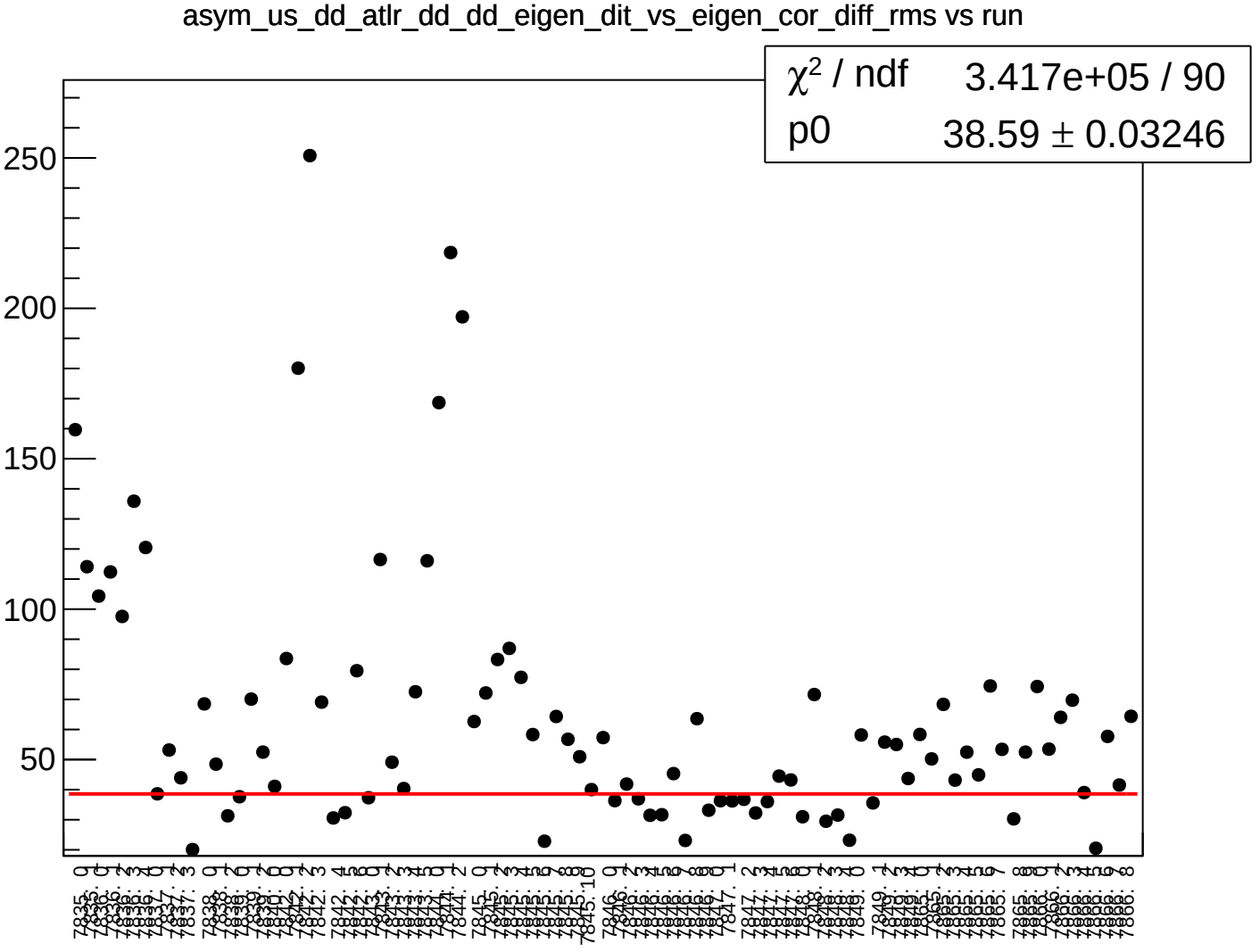

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.142e+05 / 90
p0 0.001035 ± 8.626e−07
0.01
0.008
0.006
0.004
0.002

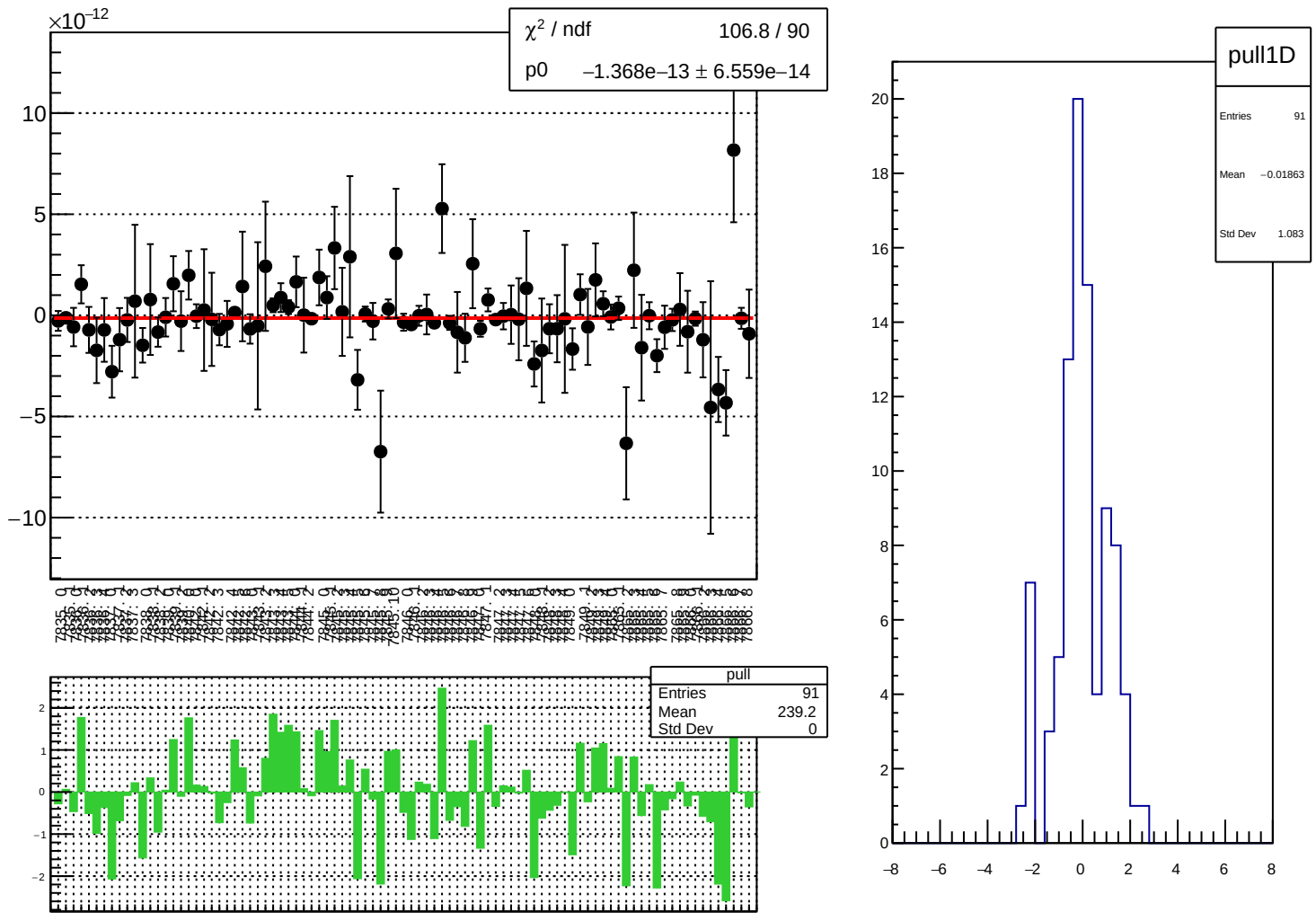

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01829 ± 0.0459
pull
Entries 91
Mean −122.9
Std Dev 0

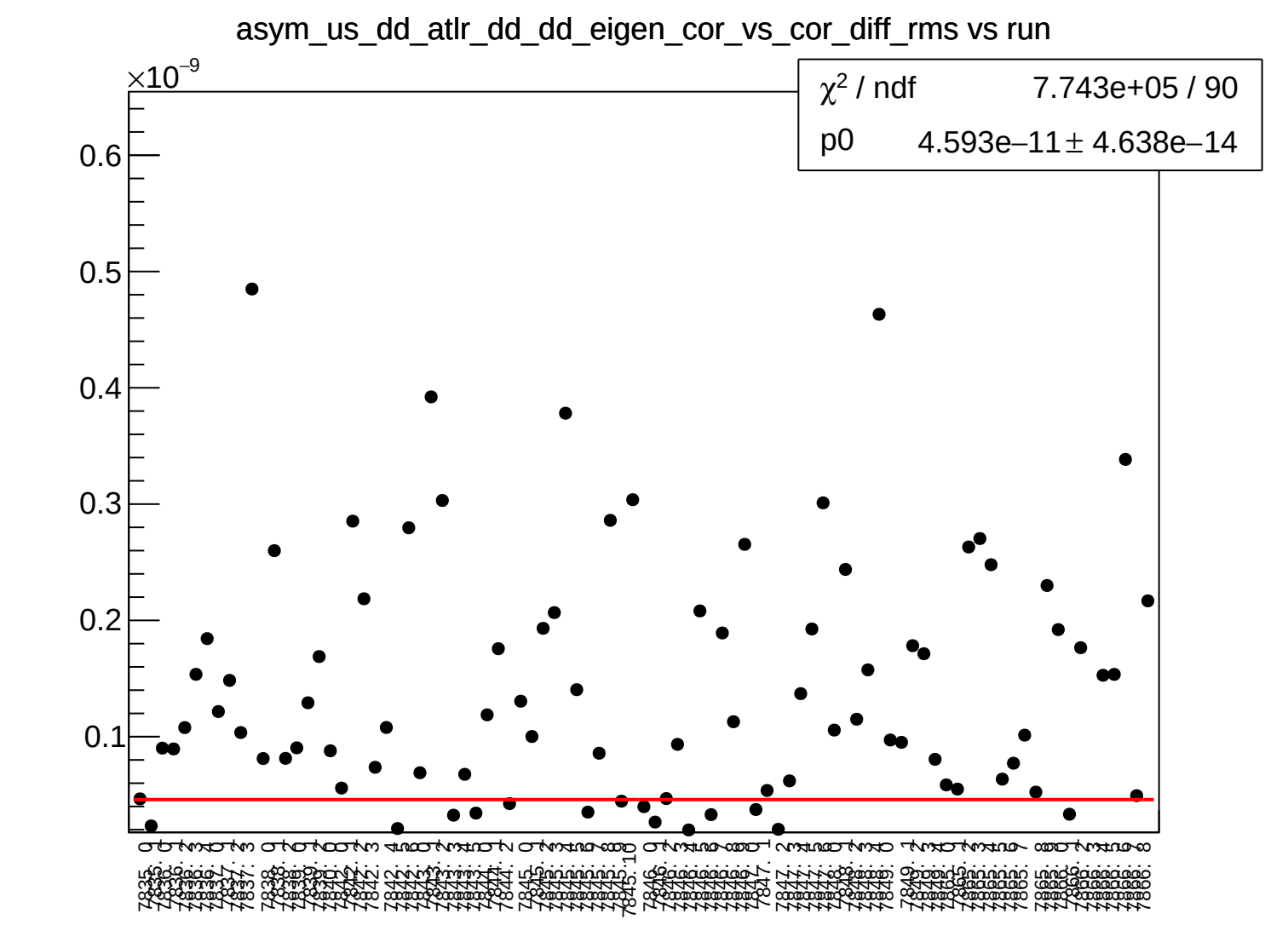

pull1D
Entries 91
Mean 0.01753
Std Dev 1.053

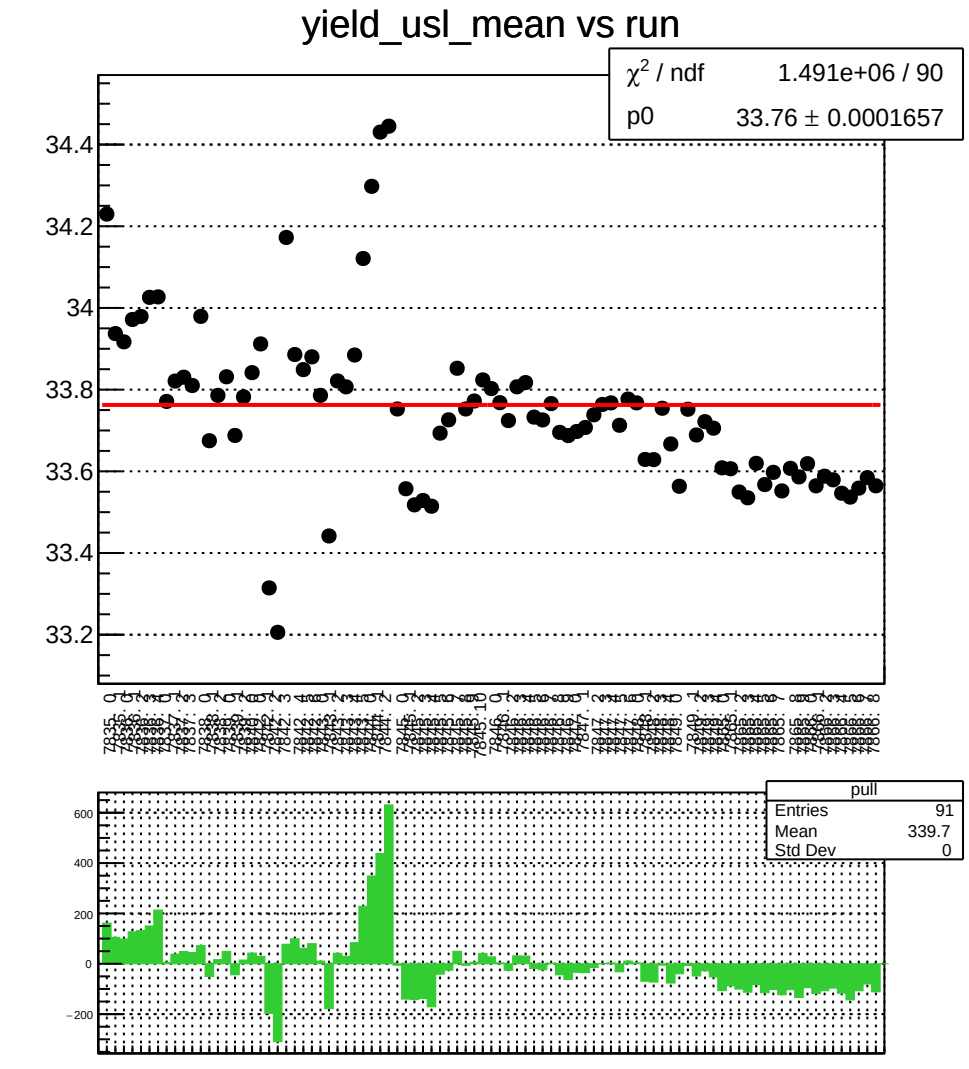

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 90
p0 38.59 ± 0.03246
250
200
150
100
50

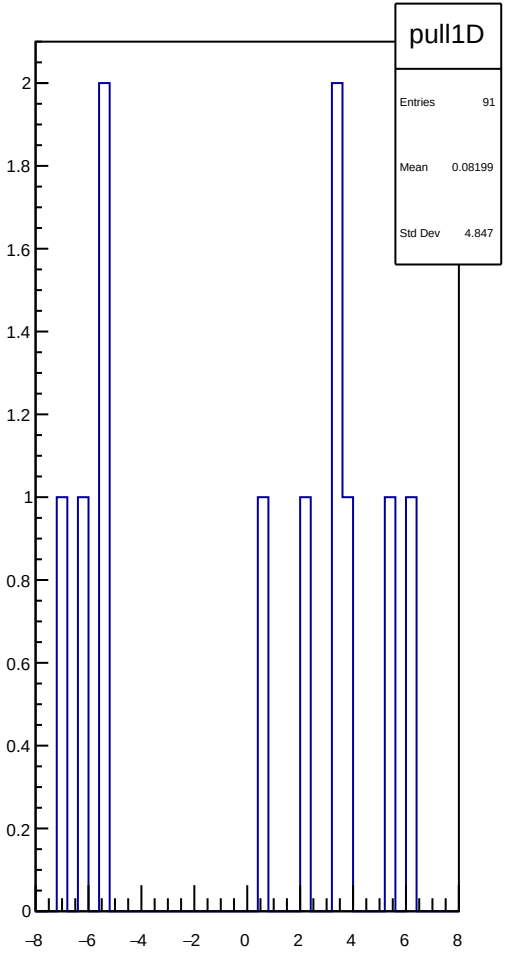

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01829 ± 0.0459
pull
Entries 91
Mean −122.9
Std Dev 0
pull1D
Entries 91
Mean 0.01753
Std Dev 1.053

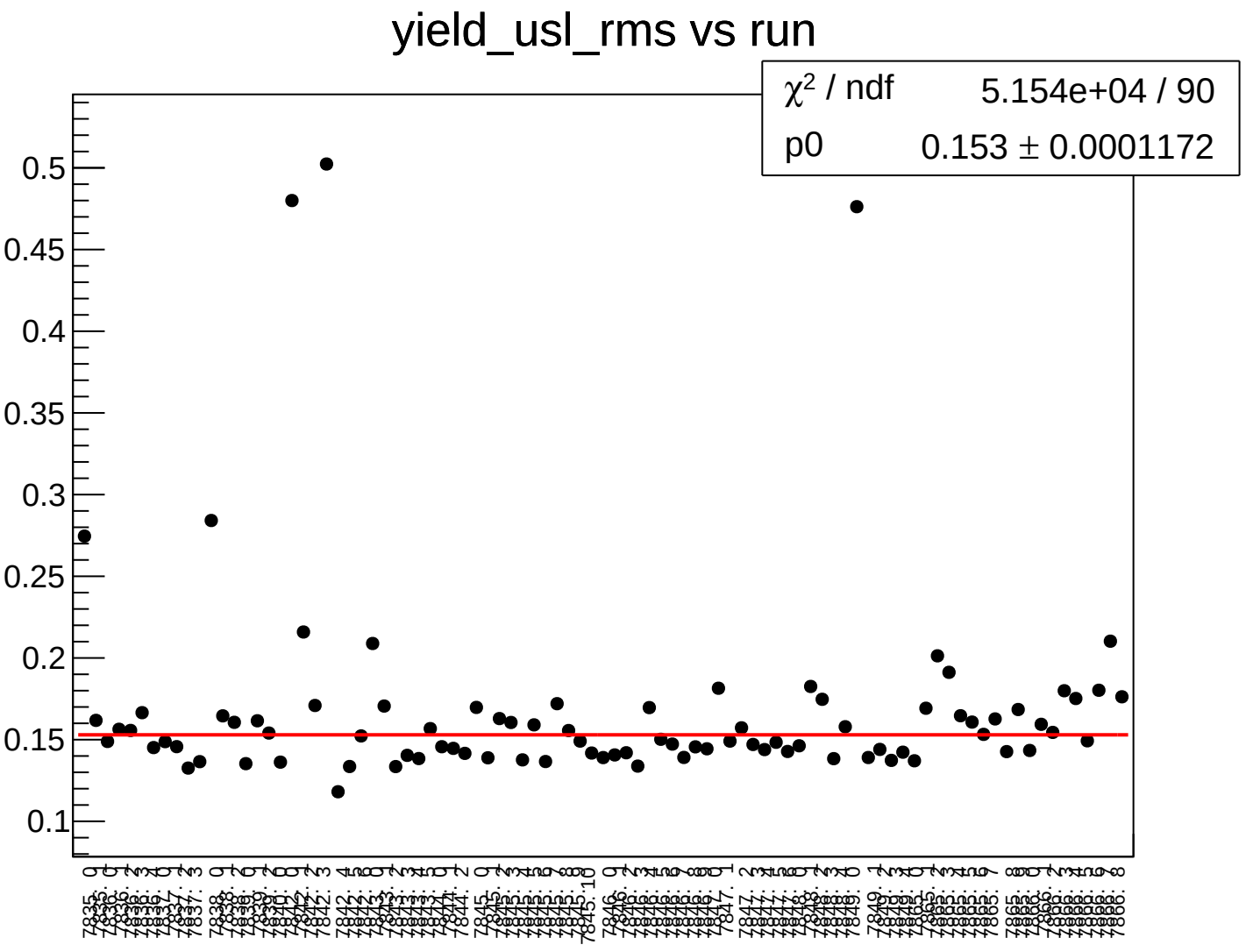

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 90
p0 38.59 ± 0.03246
250
200
150
100
50

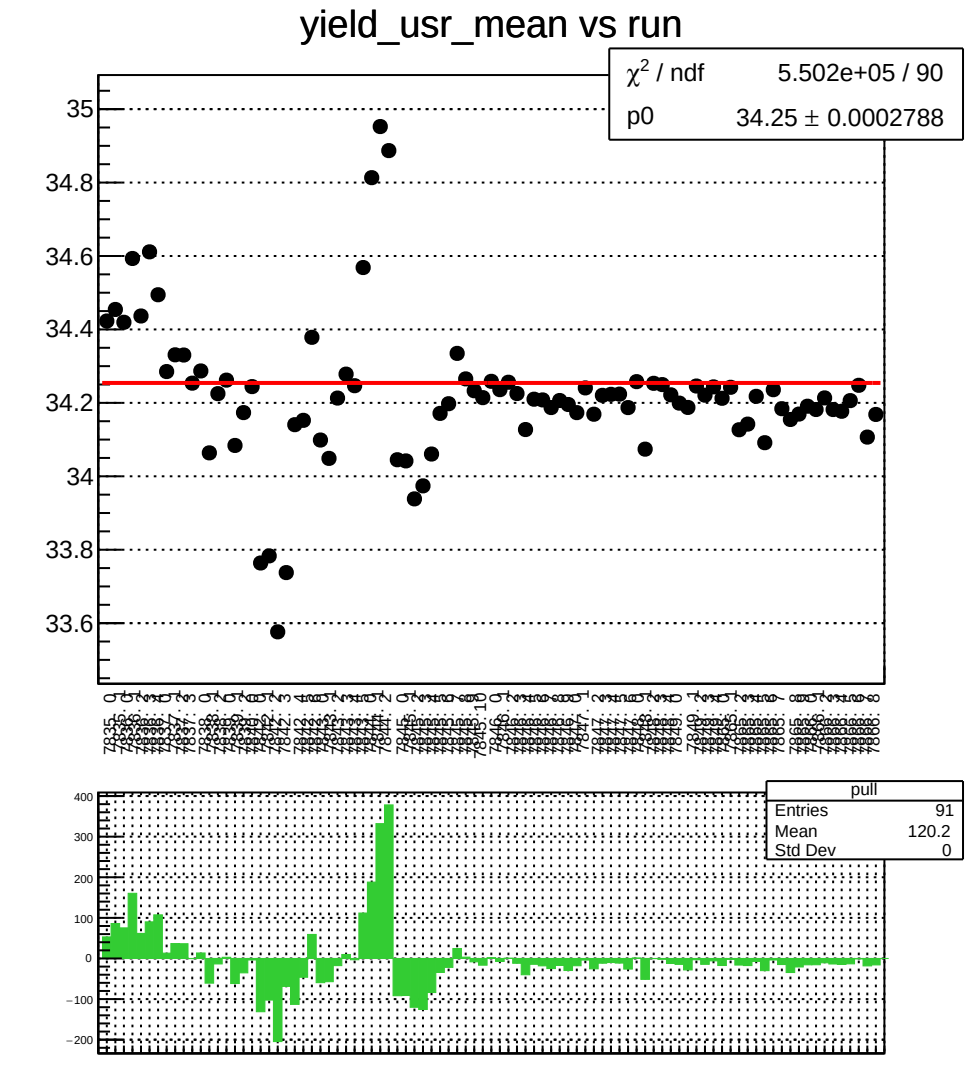

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.8 / 90
p0 −1.368e−13 ± 6.559e−14
pull
Entries 91
Mean 239.2
Std Dev 0
pull1D
Entries 91
Mean −0.01863
Std Dev 1.083

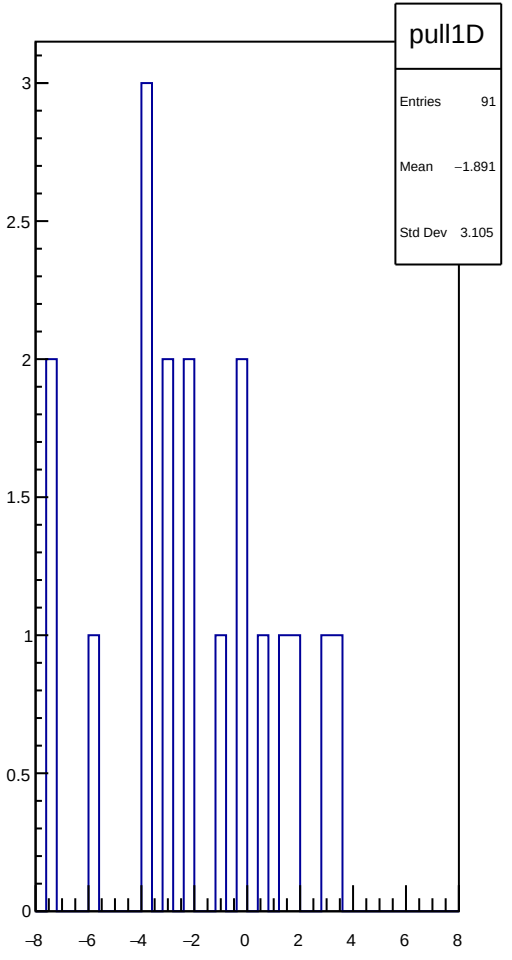

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.743e+05 / 90
p0 4.593e−11 ± 4.638e−14
0.6
0.5
0.4
0.3
0.2
0.1

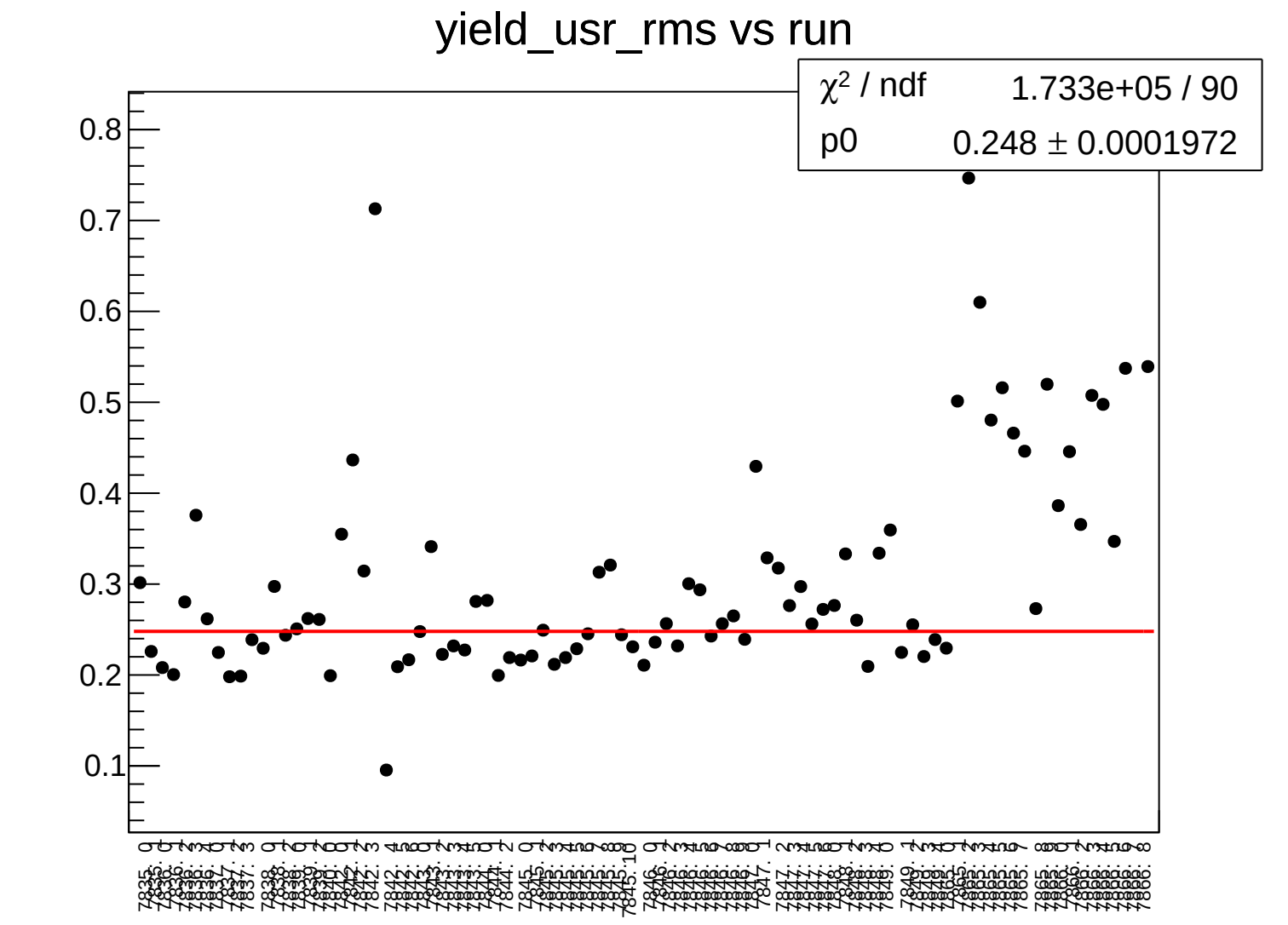

yield_usl_mean vs run
χ² / ndf 1.491e+06 / 90
p0 33.76 ± 0.0001657
34.4
34.2
34
33.8
33.6
33.4
33.2
pull
Entries 91
Mean 339.7
Std Dev 0
600
400
200
0
−200

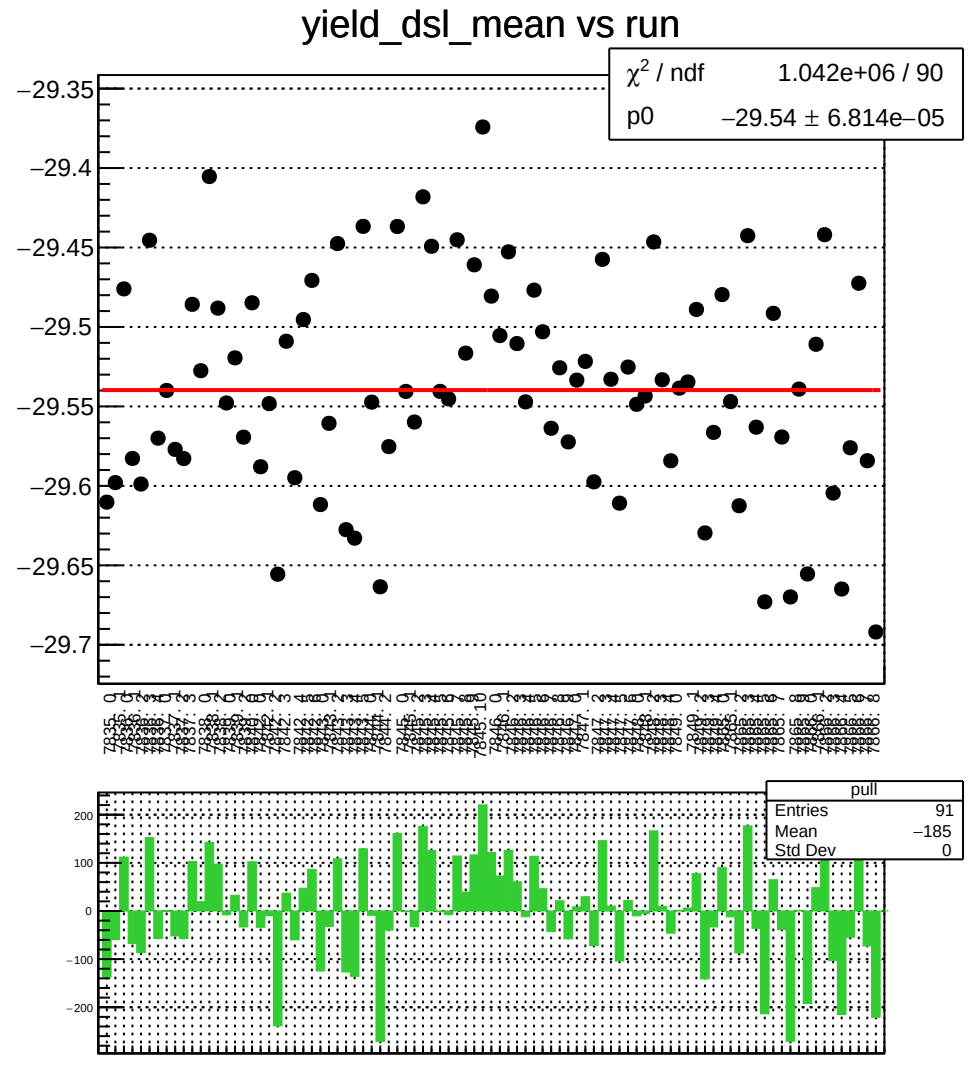

pull1D
Entries 91
Mean 0.08199
Std Dev 4.847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

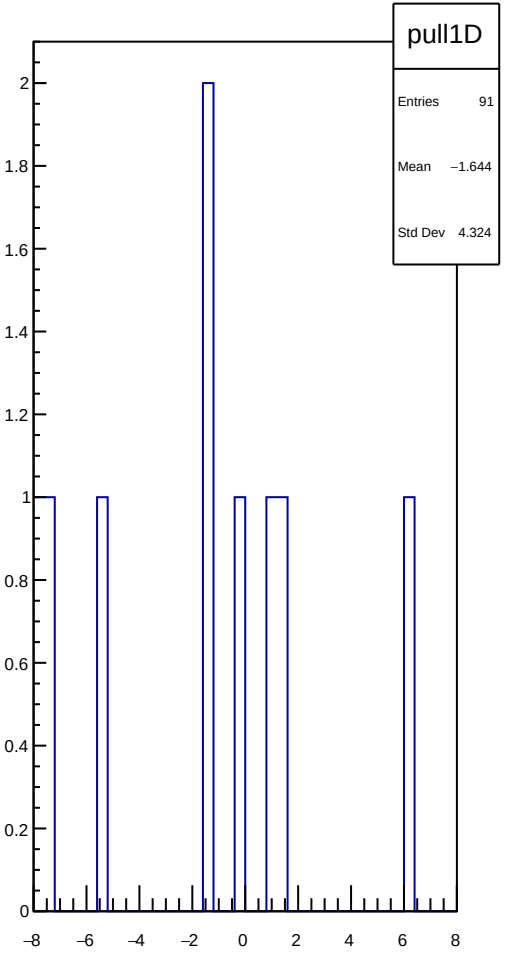

yield_usl_rms vs run
χ² / ndf 5.154e+04 / 90
p0 0.153 ± 0.0001172
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

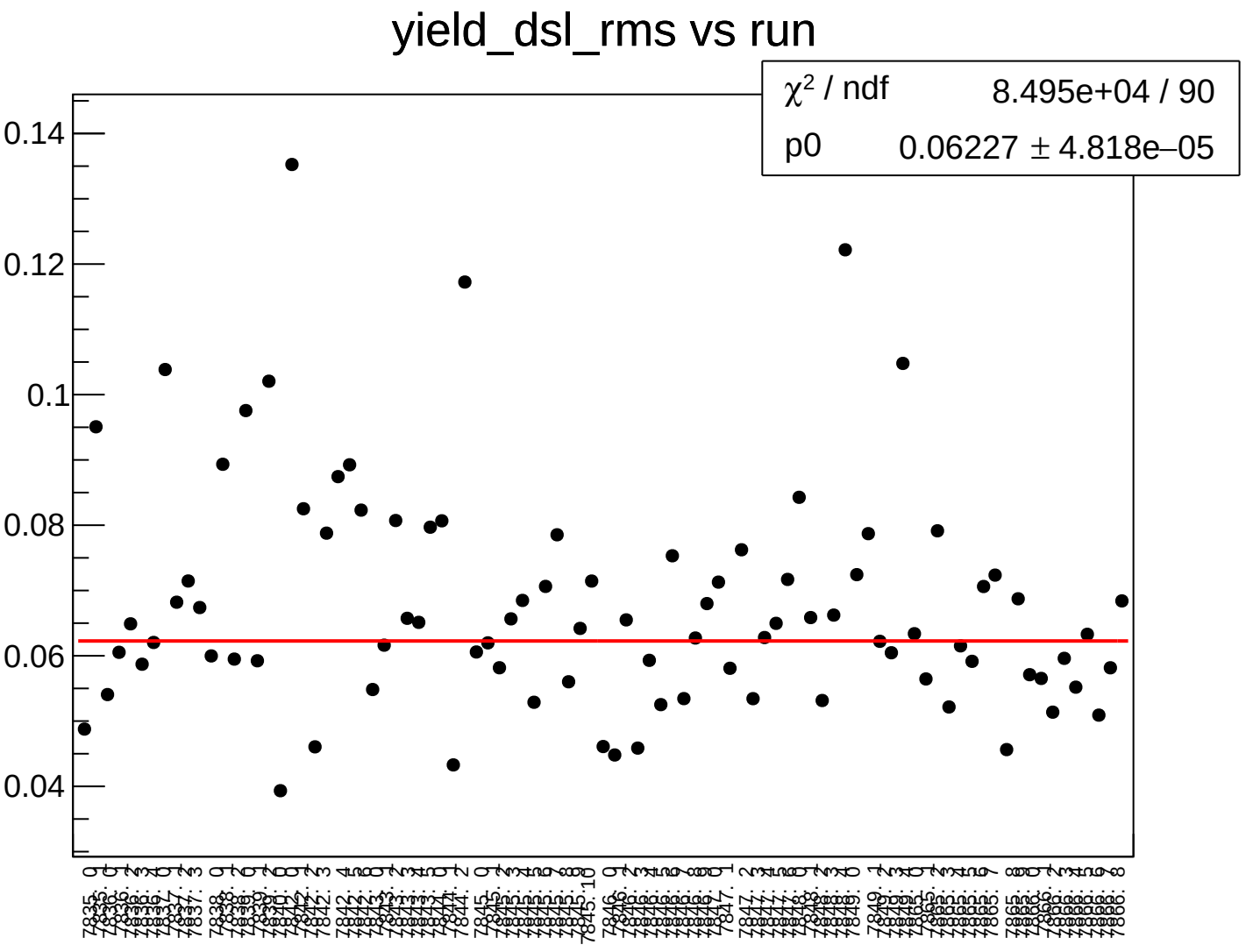

yield_usr_mean vs run
χ² / ndf 5.502e+05 / 90
p0 34.25 ± 0.0002788
35
34.8
34.6
34.4
34.2
34
33.8
33.6
pull
Entries 91
Mean 120.2
Std Dev 0
400
300
200
100
0
−100
−200

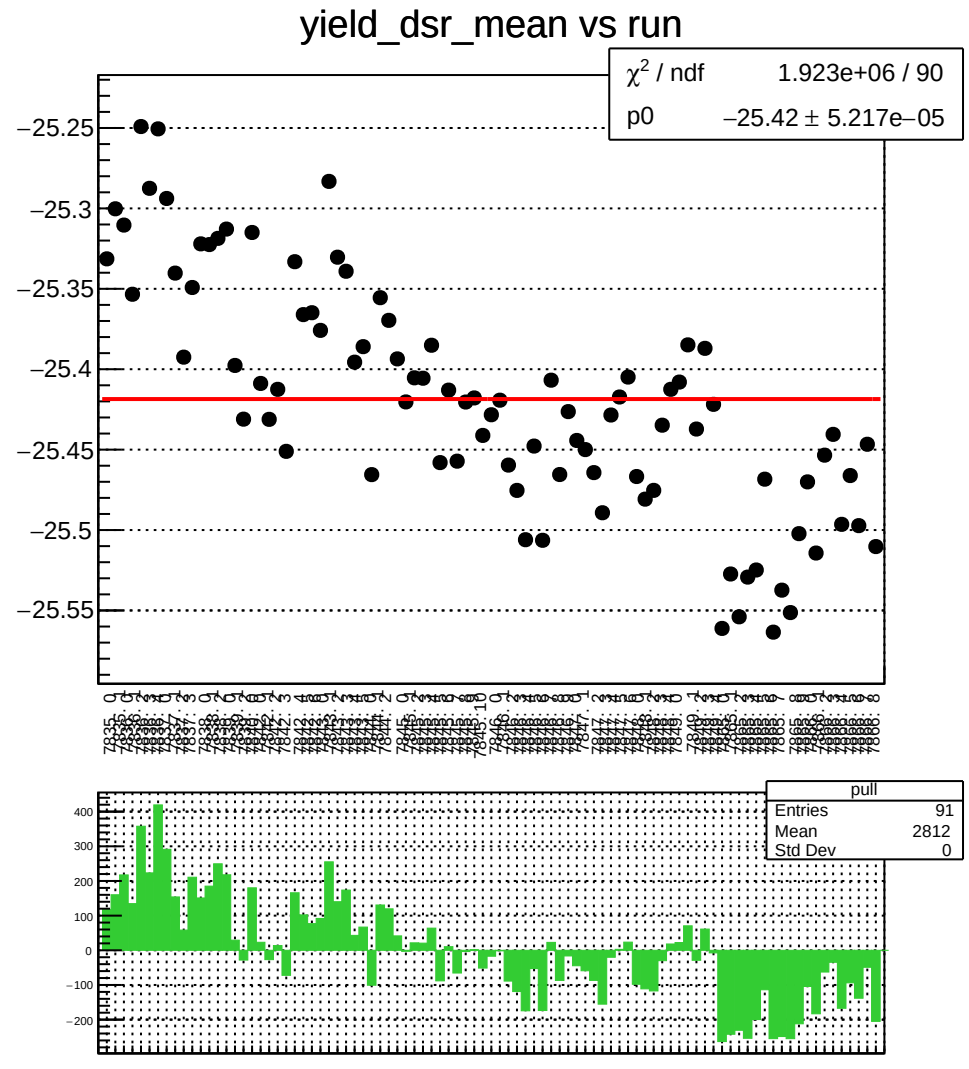

pull1D
Entries 91
Mean −1.891
Std Dev 3.105
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

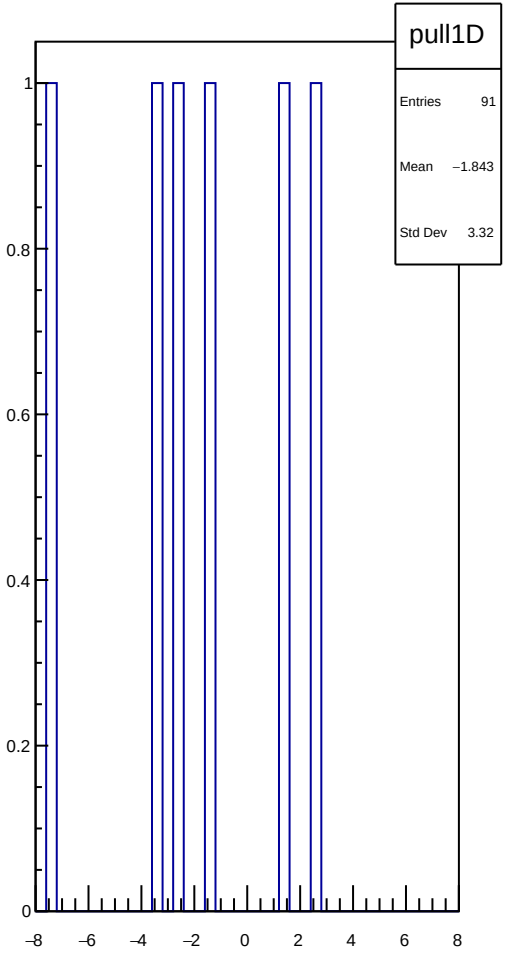

yield_usr_rms vs run
χ² / ndf 1.733e+05 / 90
p0 0.248 ± 0.0001972
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

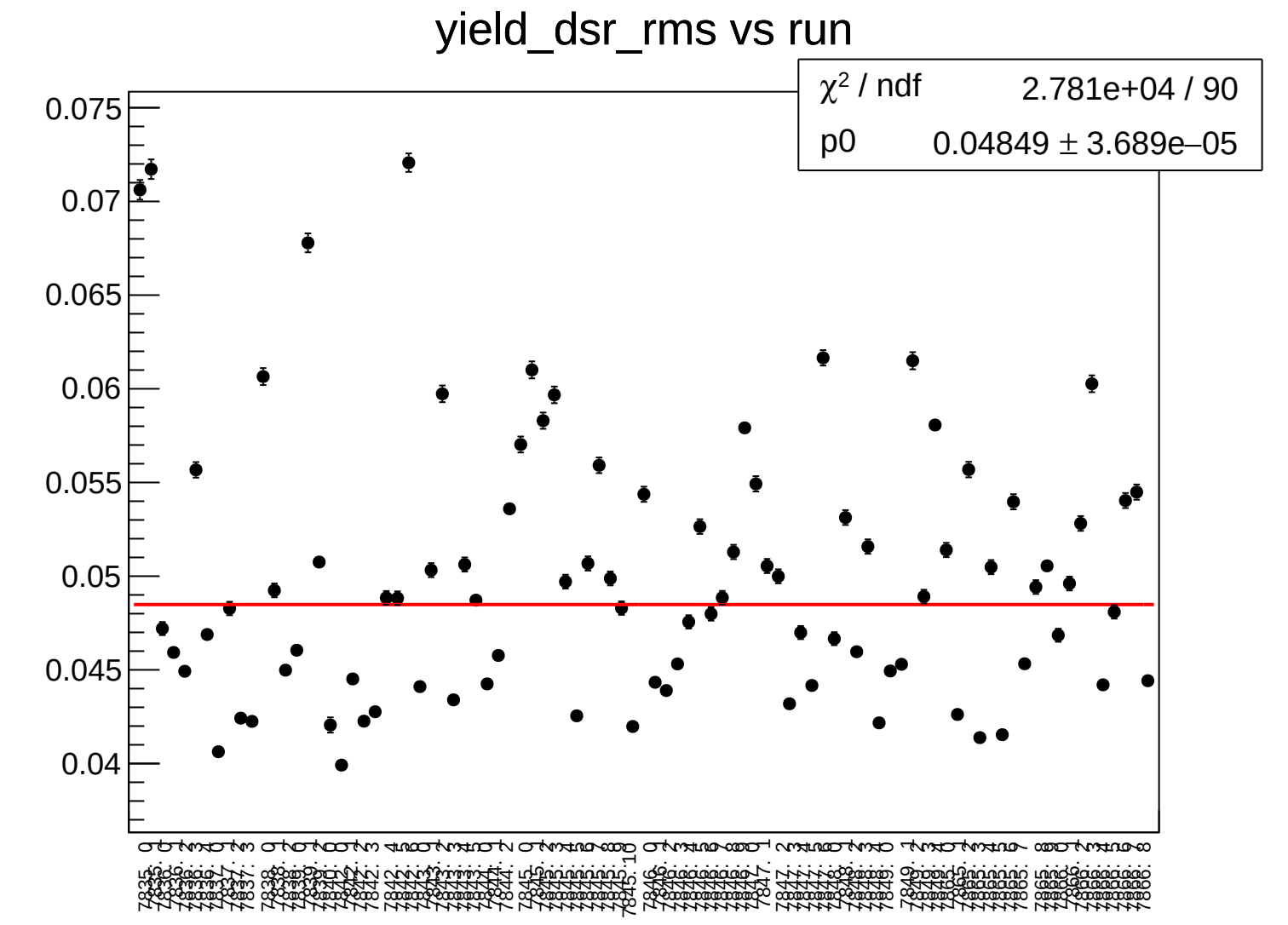

yield_dsl_mean vs run
χ² / ndf 1.042e+06 / 90
p0 −29.54 ± 6.814e−05
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
pull
Entries 91
Mean −185
Std Dev 0
200
100
0
−100
−200

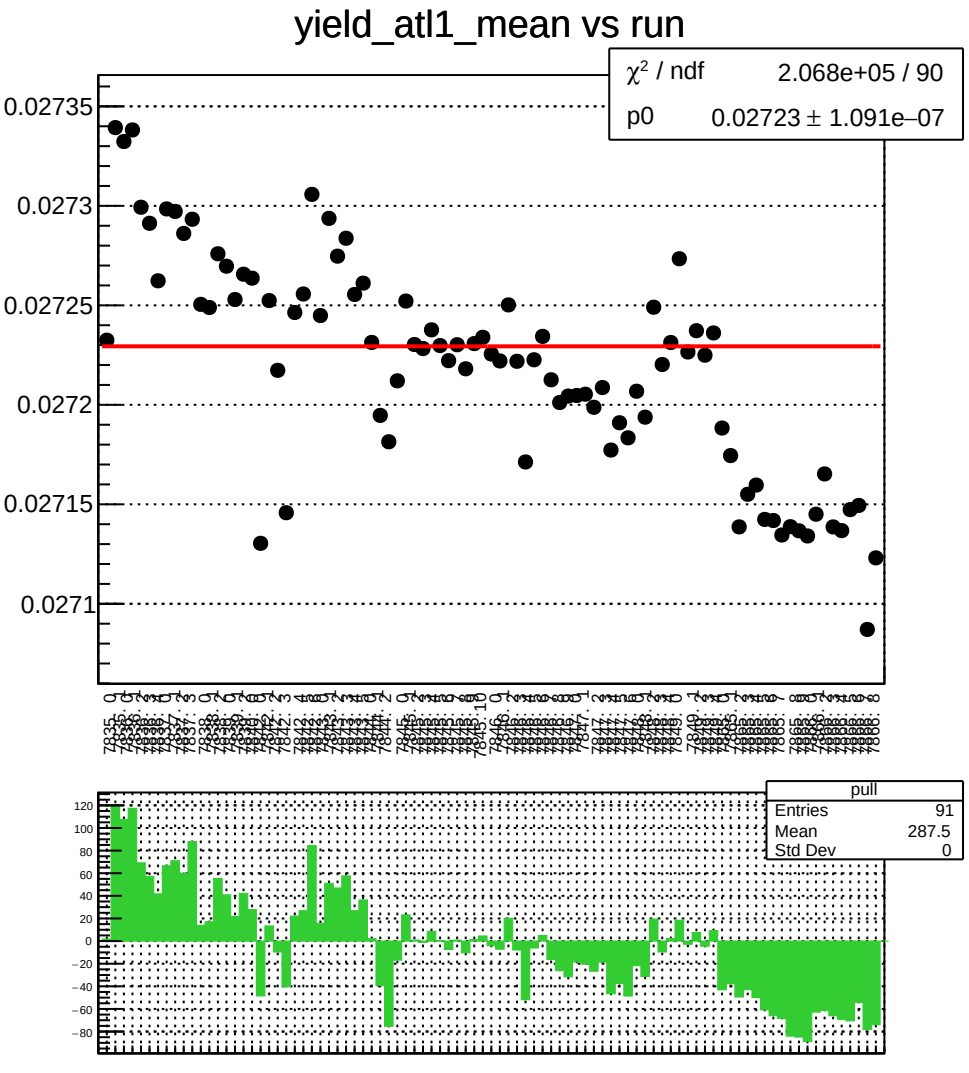

pull1D
Entries 91
Mean −1.644
Std Dev 4.324
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

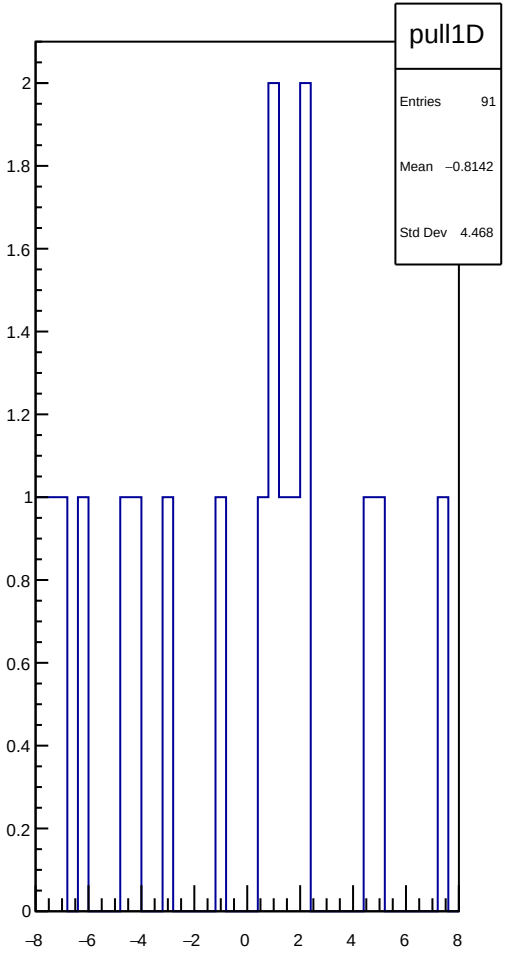

yield_dsl_rms vs run
χ² / ndf 8.495e+04 / 90
p0 0.06227 ± 4.818e−05
0.14
0.12
0.1
0.08
0.06
0.04

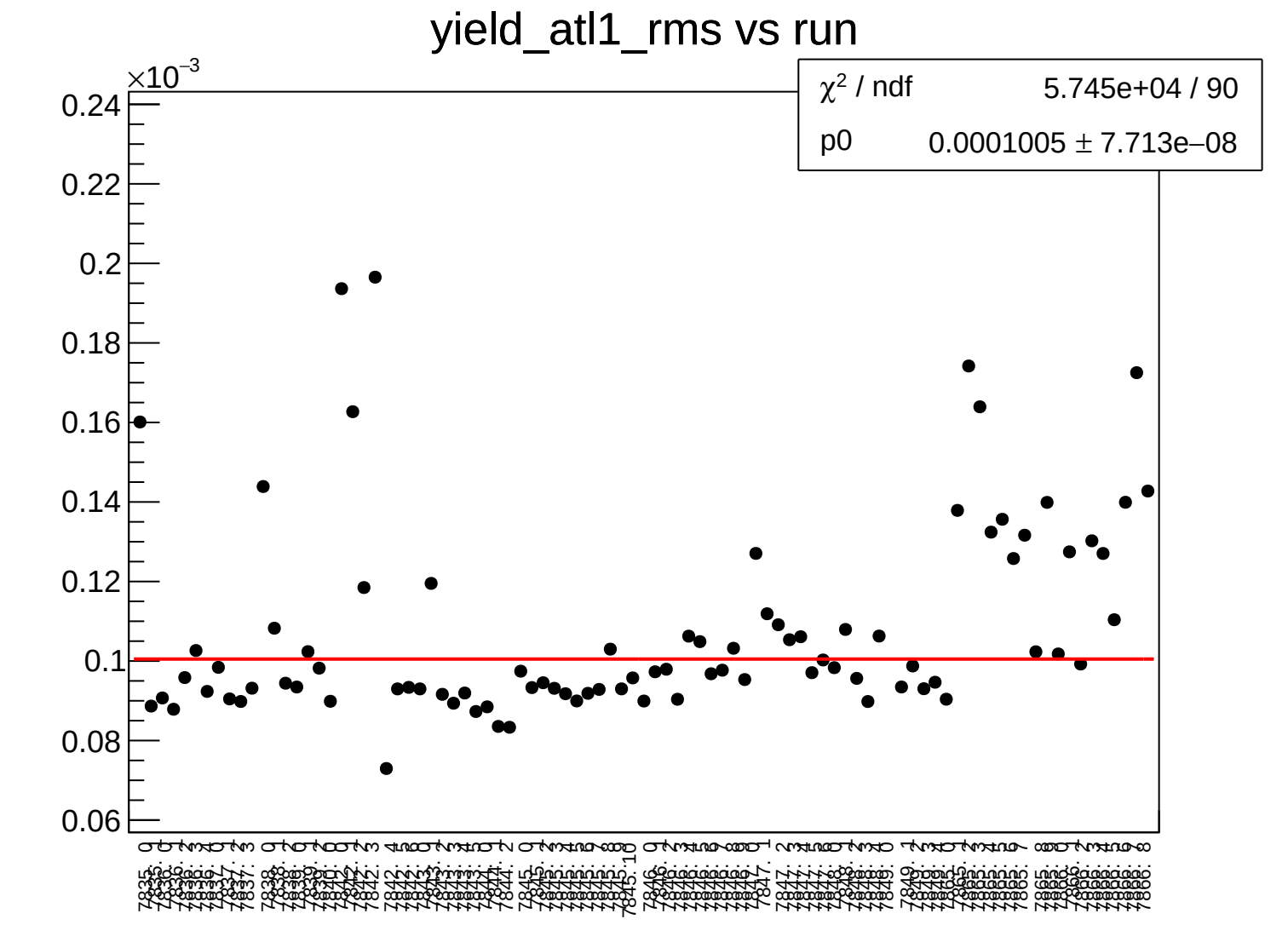

yield_dsr_mean vs run
χ² / ndf 1.923e+06 / 90
p0 −25.42 ± 5.217e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 91
Mean 2812
Std Dev 0
400
300
200
100
0
−100
−200

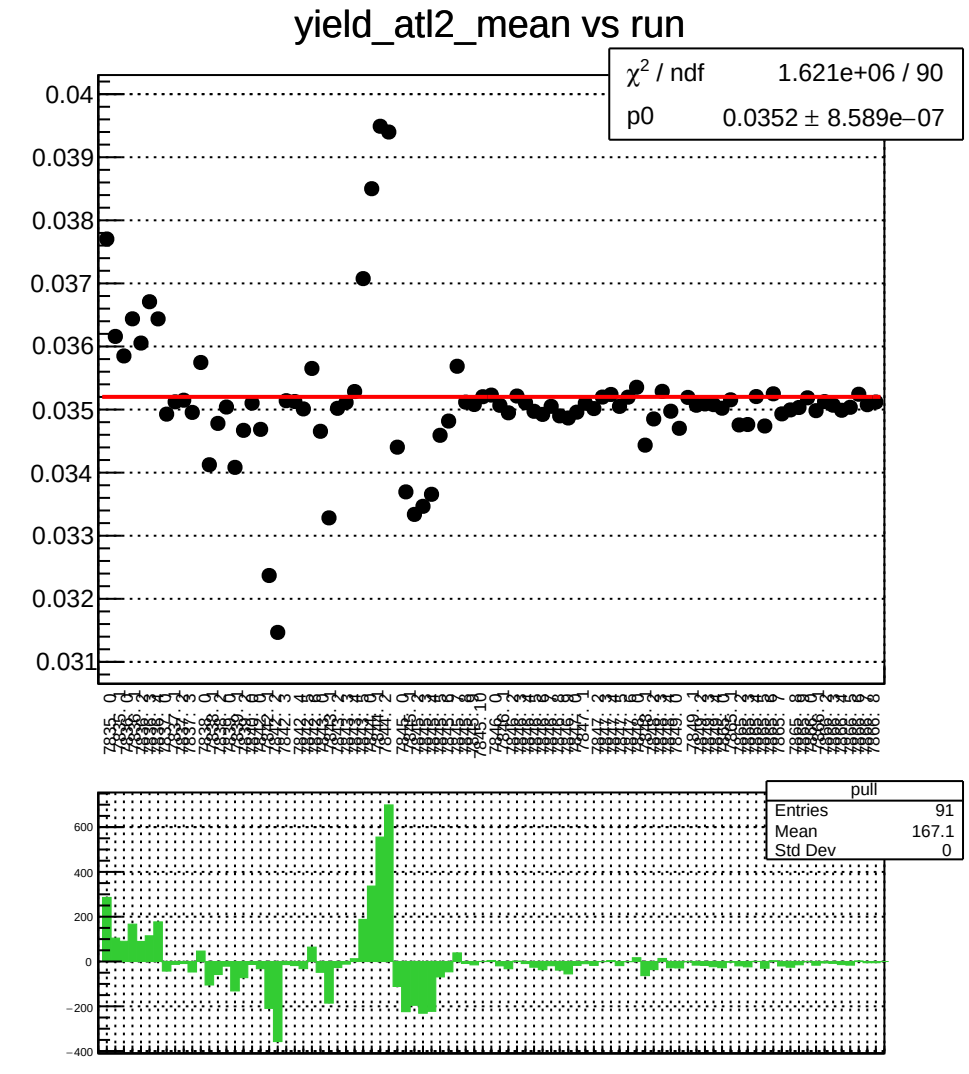

pull1D
Entries 91
Mean −1.843
Std Dev 3.32
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

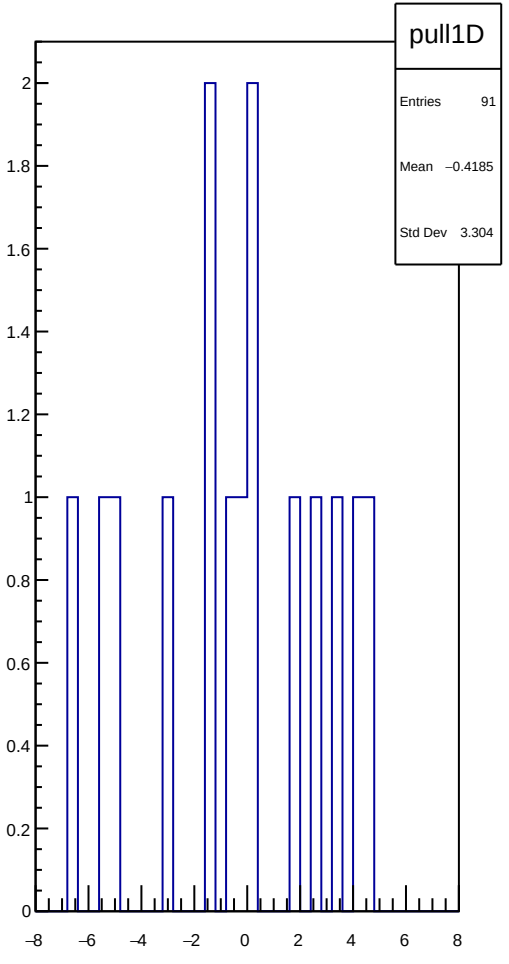

yield_dsr_rms vs run
χ² / ndf 2.781e+04 / 90
p0 0.04849 ± 3.689e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

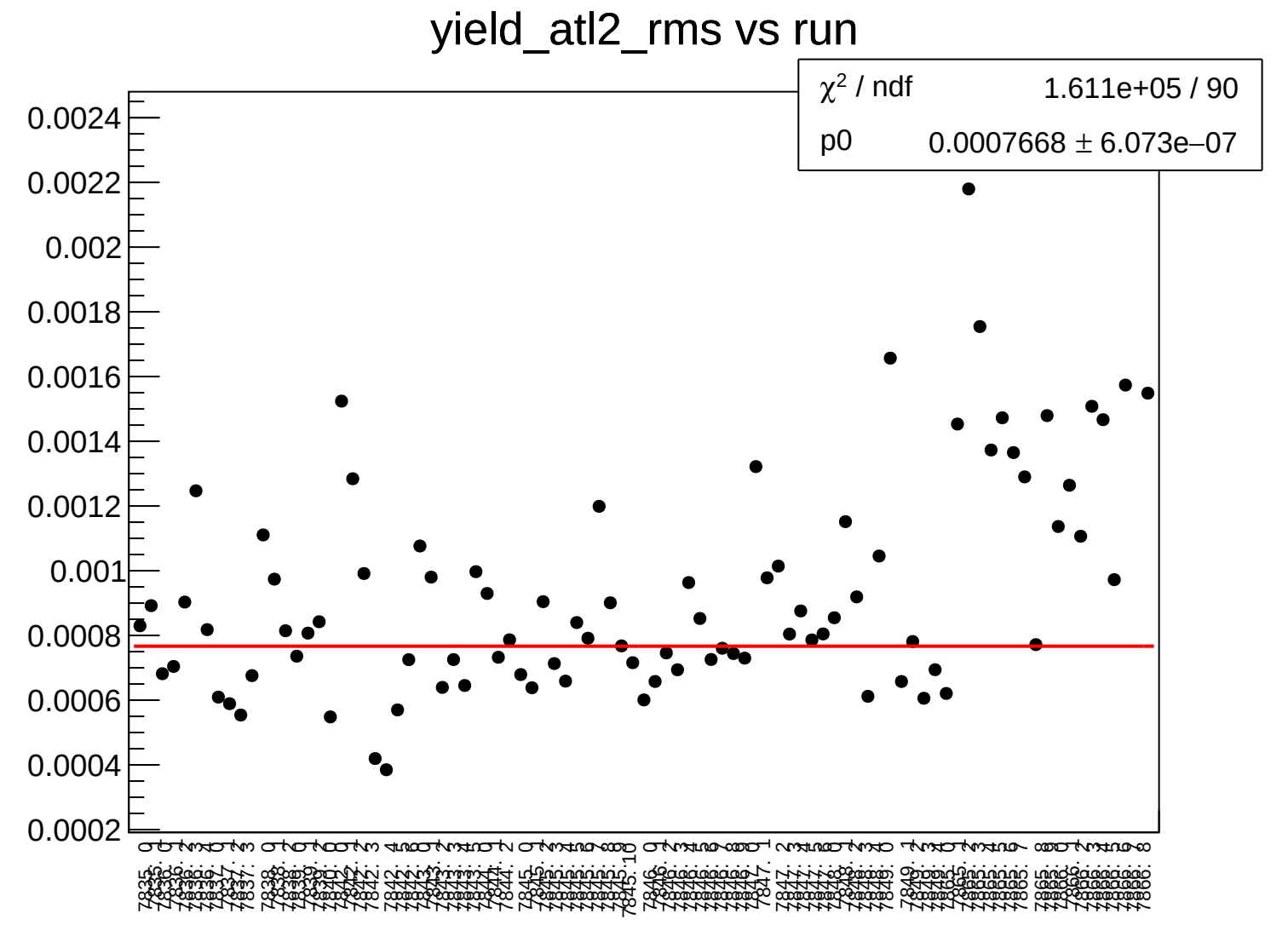

yield_atl1_mean vs run
χ² / ndf 2.068e+05 / 90
p0 0.02723 ± 1.091e−07
0.02735
0.0273
0.02725
0.0272
0.02715
0.0271
pull
Entries 91
Mean 287.5
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

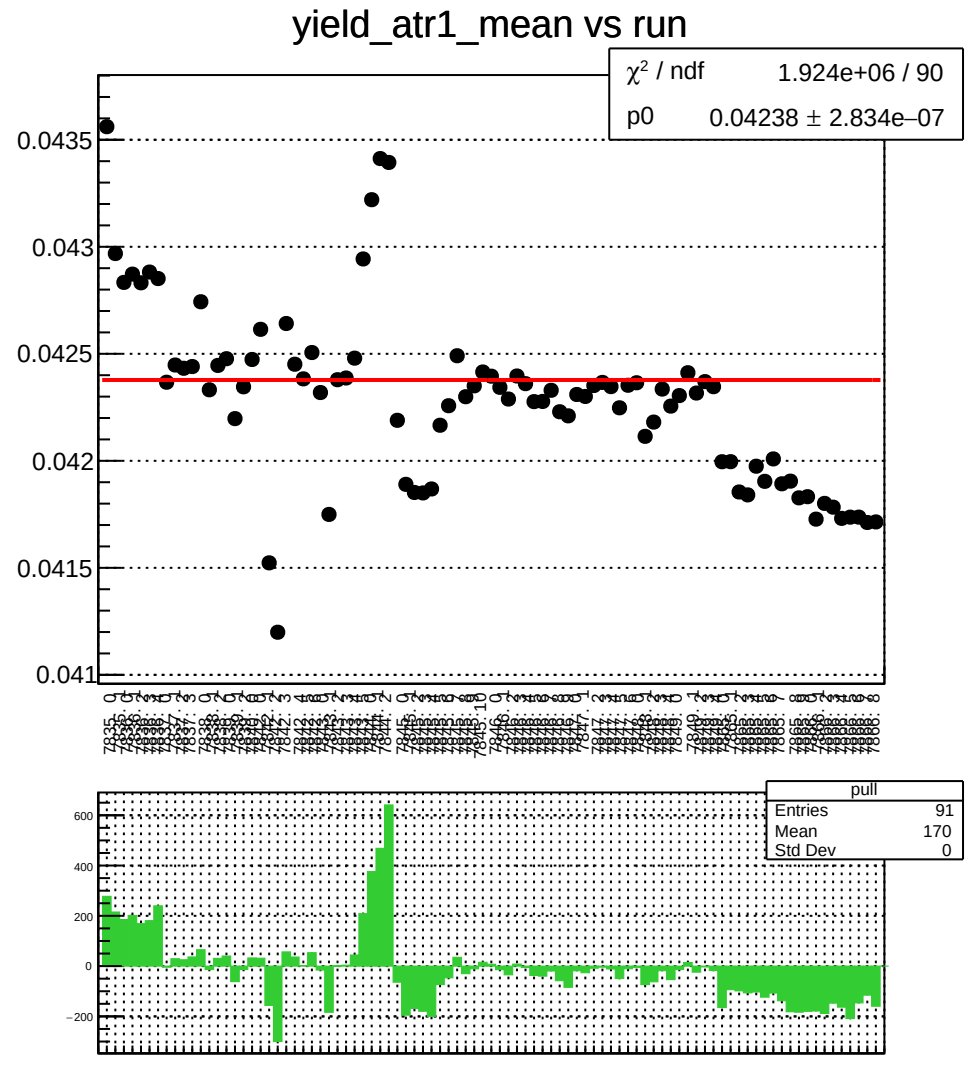

pull1D
Entries 91
Mean −0.8142
Std Dev 4.468
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

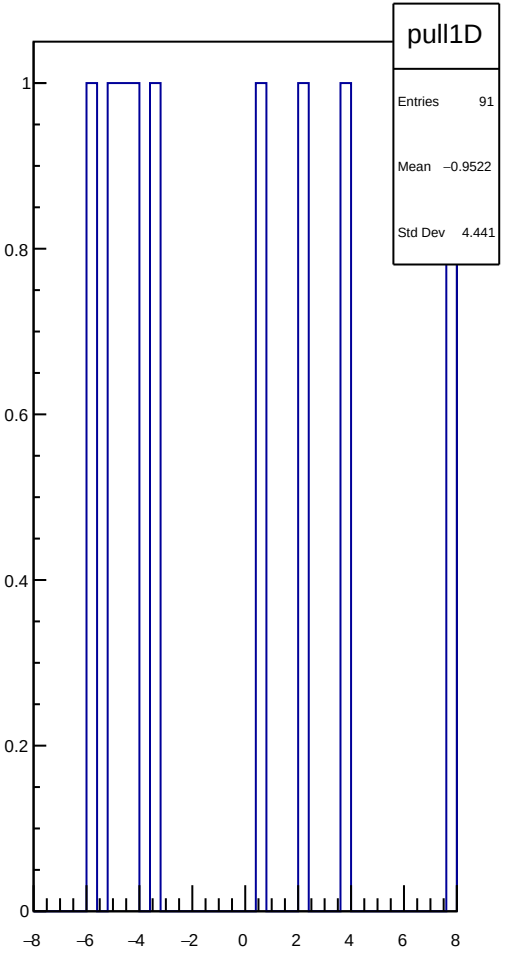

yield_atl1_rms vs run
×10⁻³
χ² / ndf 5.745e+04 / 90
p0 0.0001005 ± 7.713e−08
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

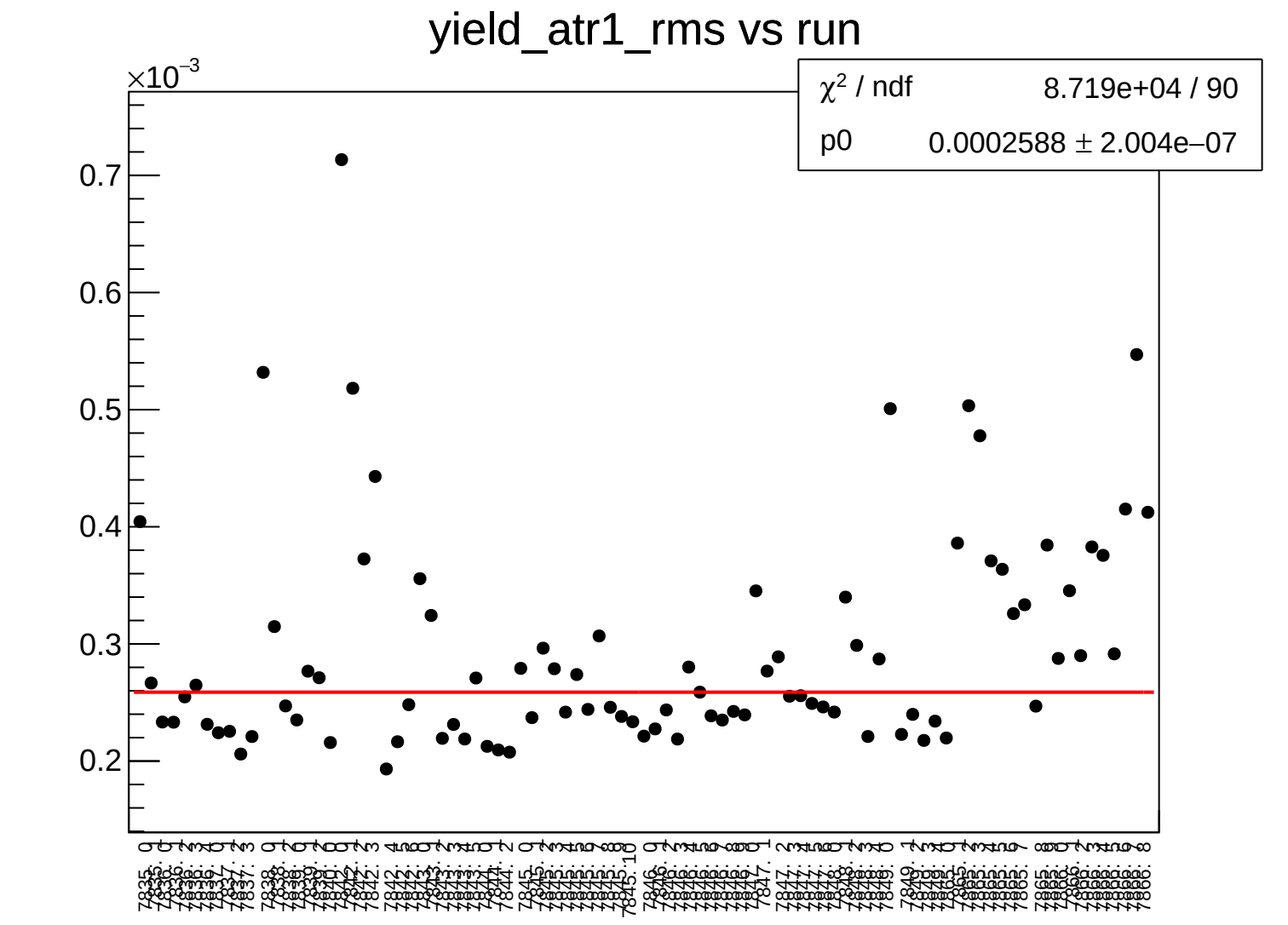

yield_atl2_mean vs run
χ² / ndf 1.621e+06 / 90
p0 0.0352 ± 8.589e−07
0.04
0.039
0.038
0.037
0.036
0.035
0.034
0.033
0.032
0.031
pull
Entries 91
Mean 167.1
Std Dev 0
600
400
200
0
−200
−400

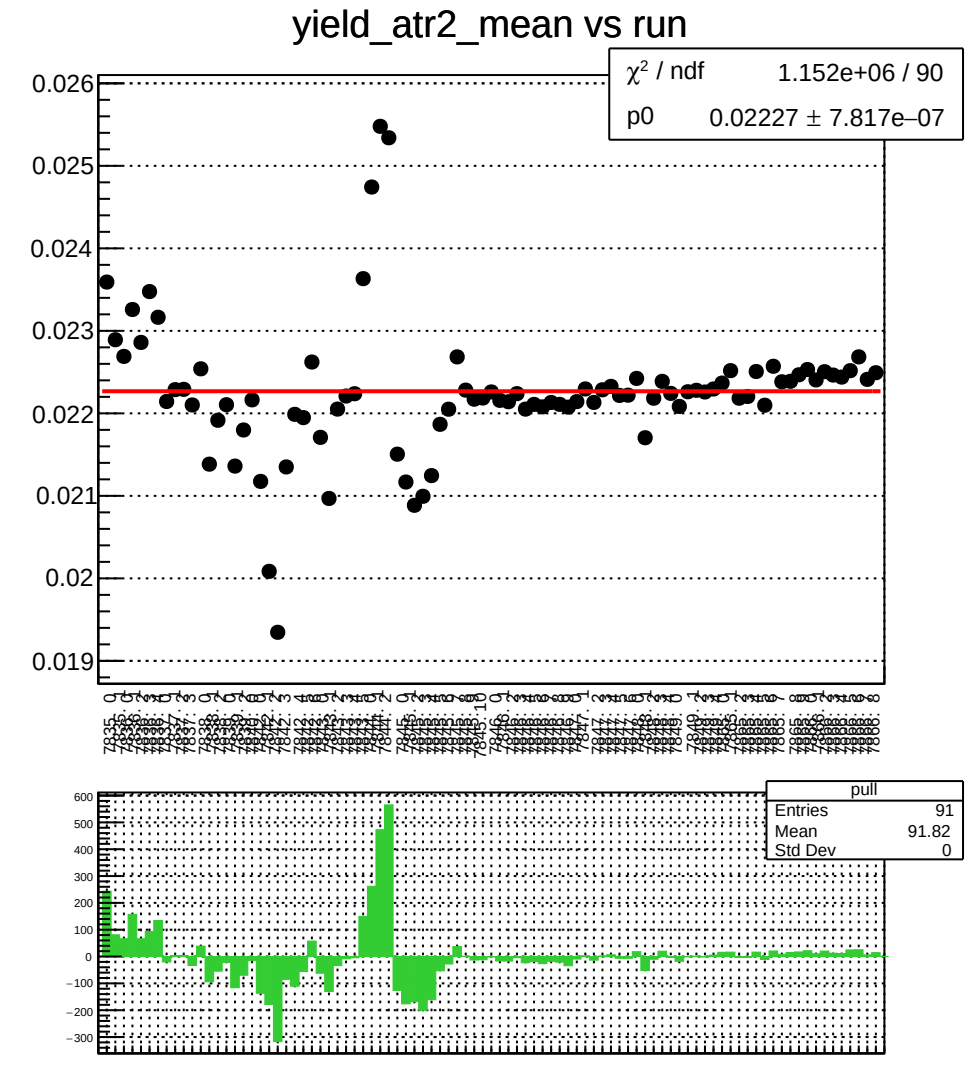

pull1D
Entries 91
Mean −0.4185
Std Dev 3.304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

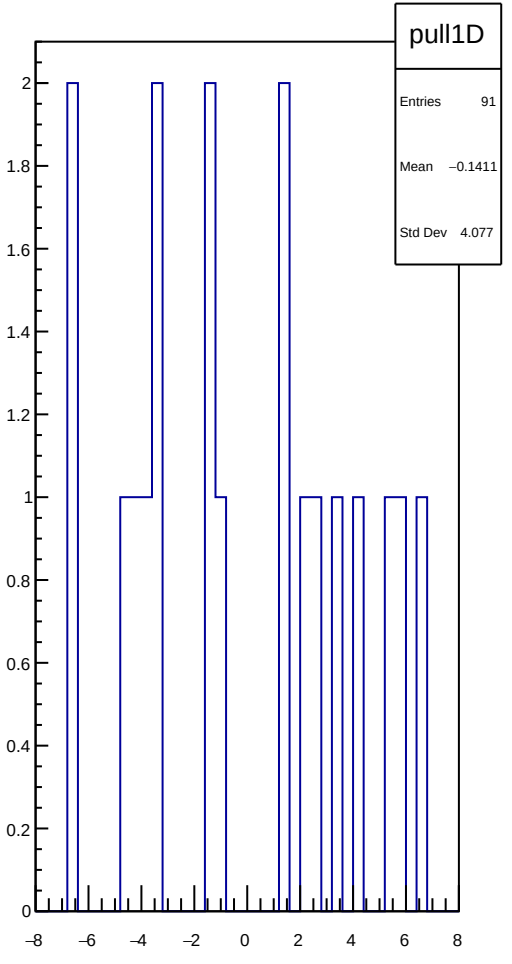

yield_atl2_rms vs run
χ² / ndf 1.611e+05 / 90
p0 0.0007668 ± 6.073e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

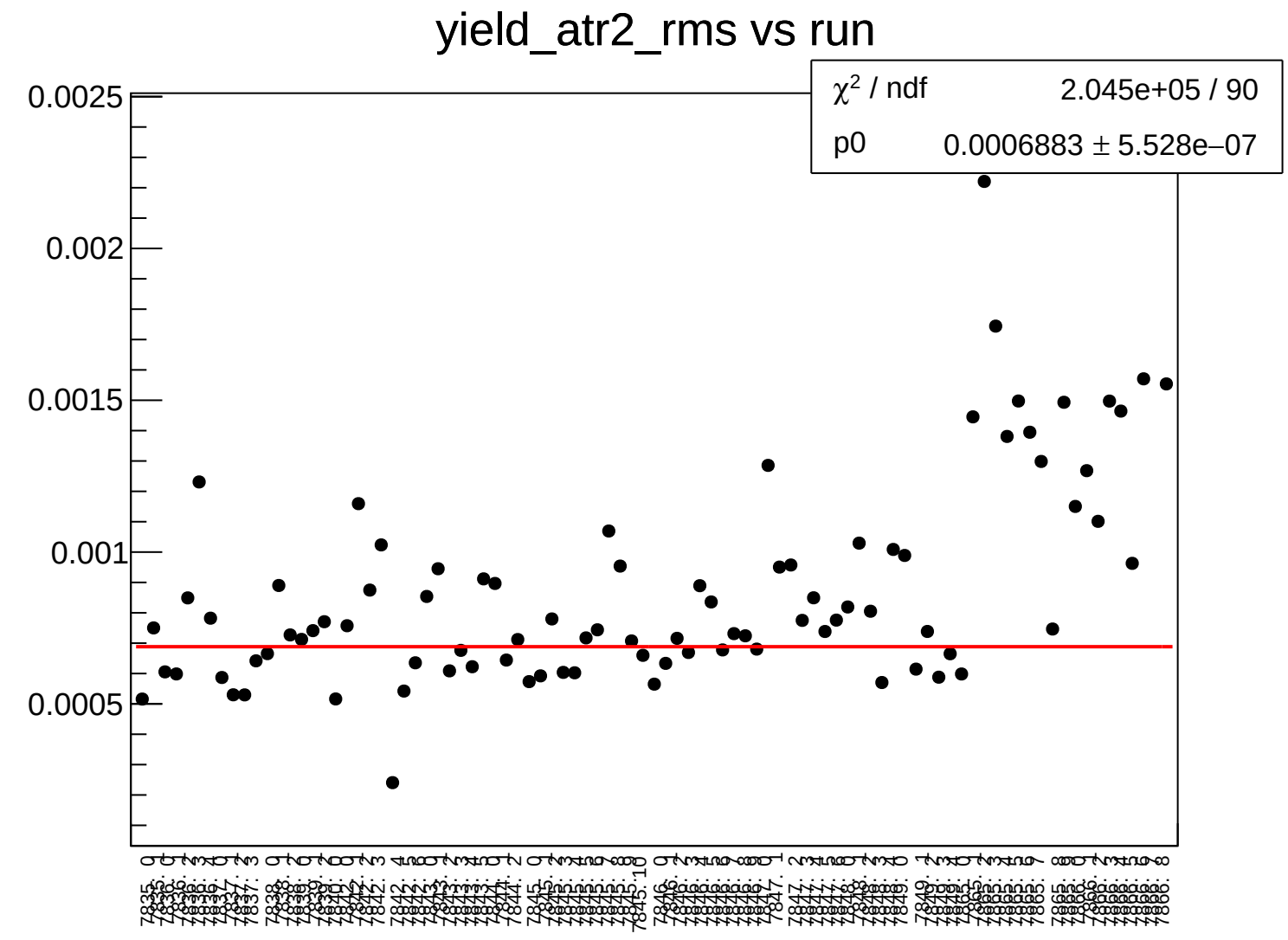

yield_atr1_mean vs run
χ² / ndf 1.924e+06 / 90
p0 0.04238 ± 2.834e−07
0.0435
0.043
0.0425
0.042
0.0415
0.041
pull
Entries 91
Mean 170
Std Dev 0
600
400
200
0
−200

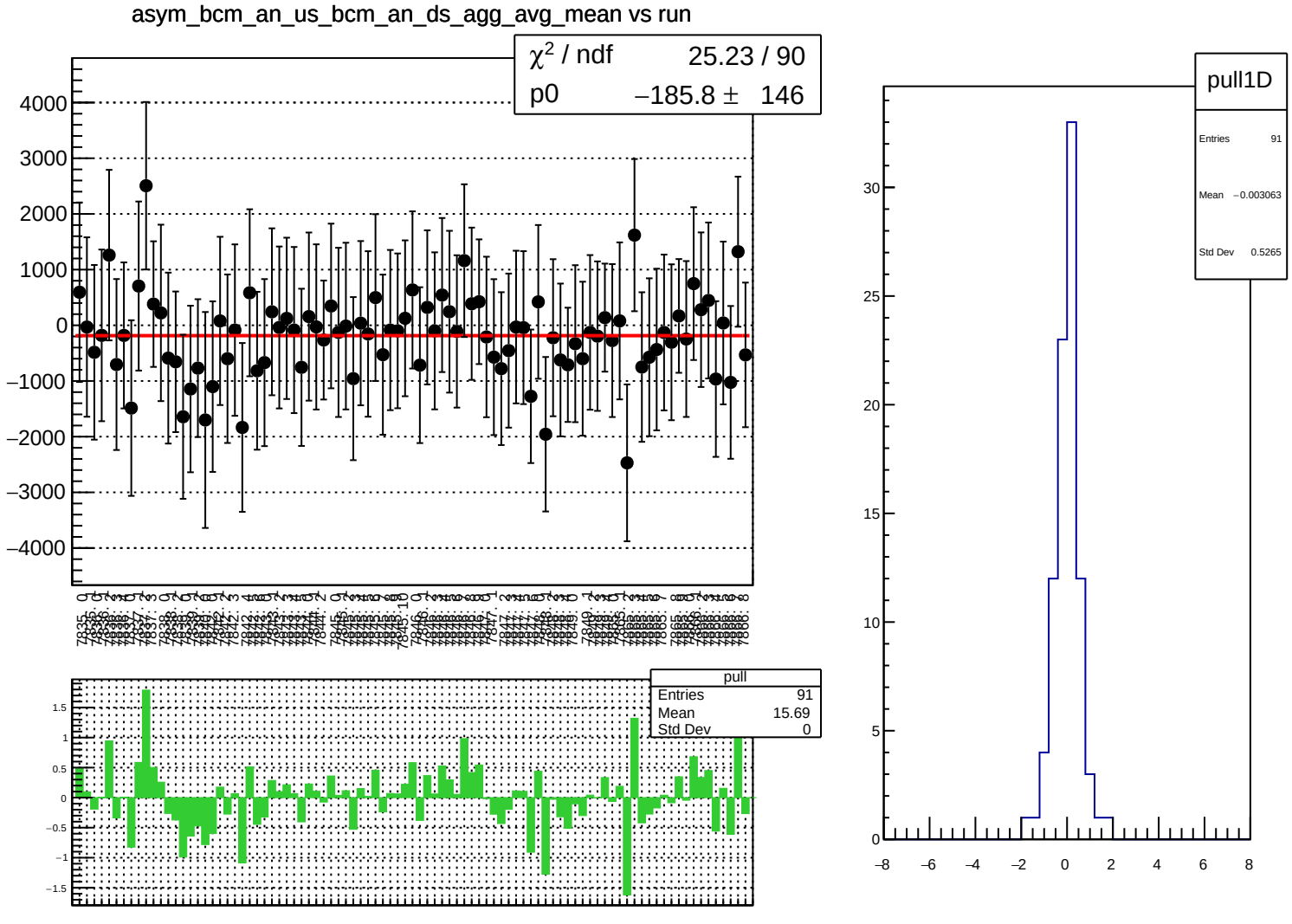

pull1D
Entries 91
Mean −0.9522
Std Dev 4.441
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

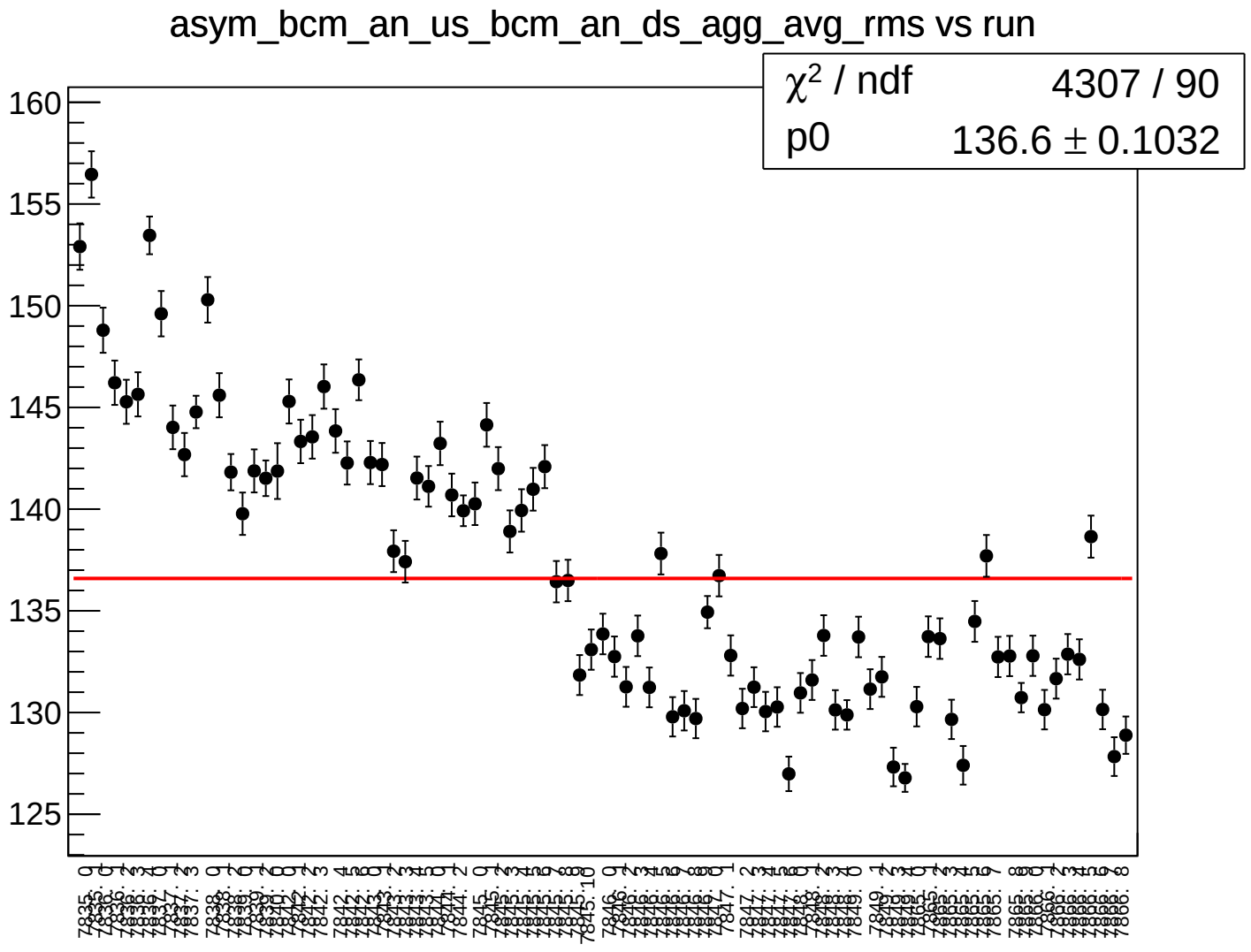

yield_atr1_rms vs run
×10⁻³
χ² / ndf 8.719e+04 / 90
p0 0.0002588 ± 2.004e−07
0.7
0.6
0.5
0.4
0.3
0.2

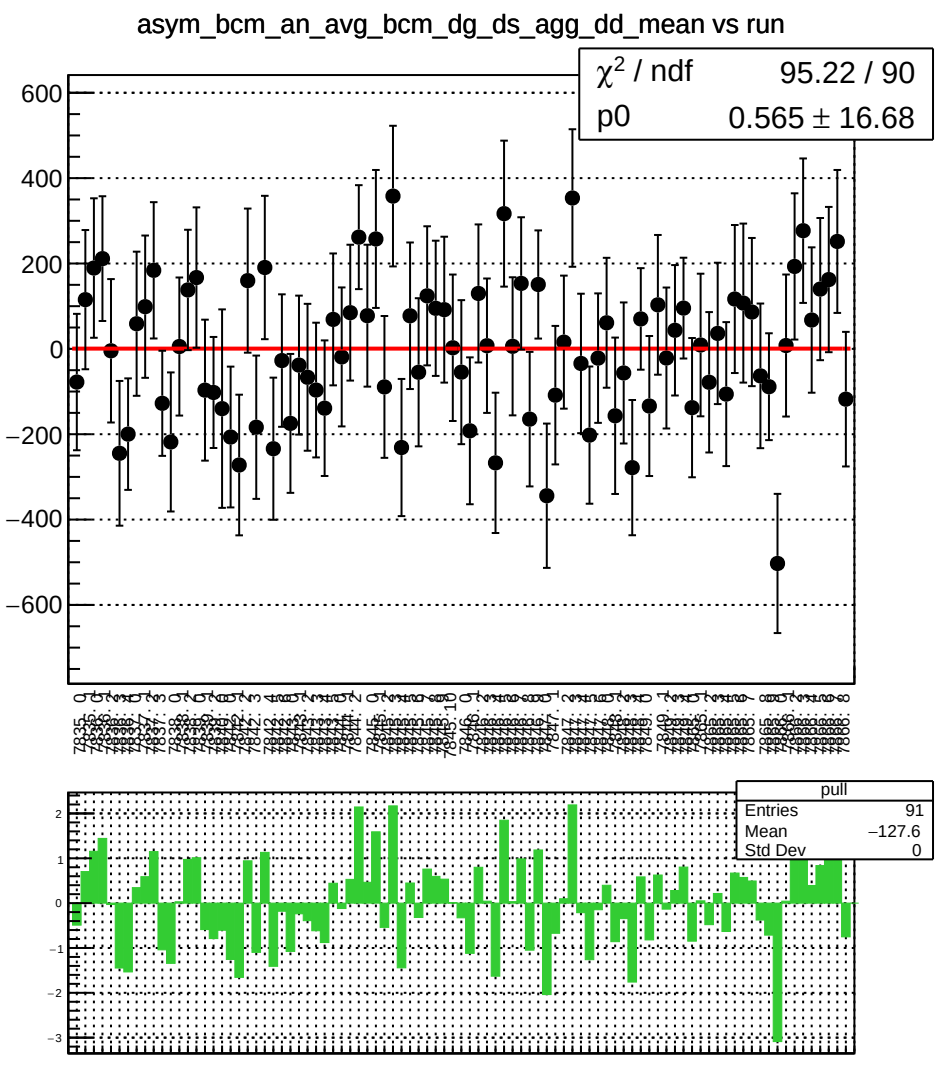

yield_atr2_mean vs run
χ² / ndf 1.152e+06 / 90
p0 0.02227 ± 7.817e−07
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
pull
Entries 91
Mean 91.82
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

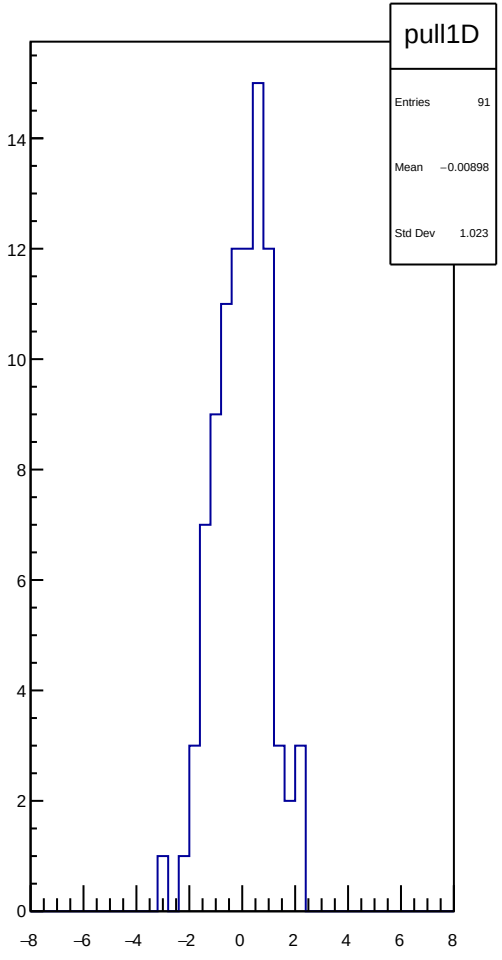

pull1D
Entries 91
Mean −0.1411
Std Dev 4.077
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

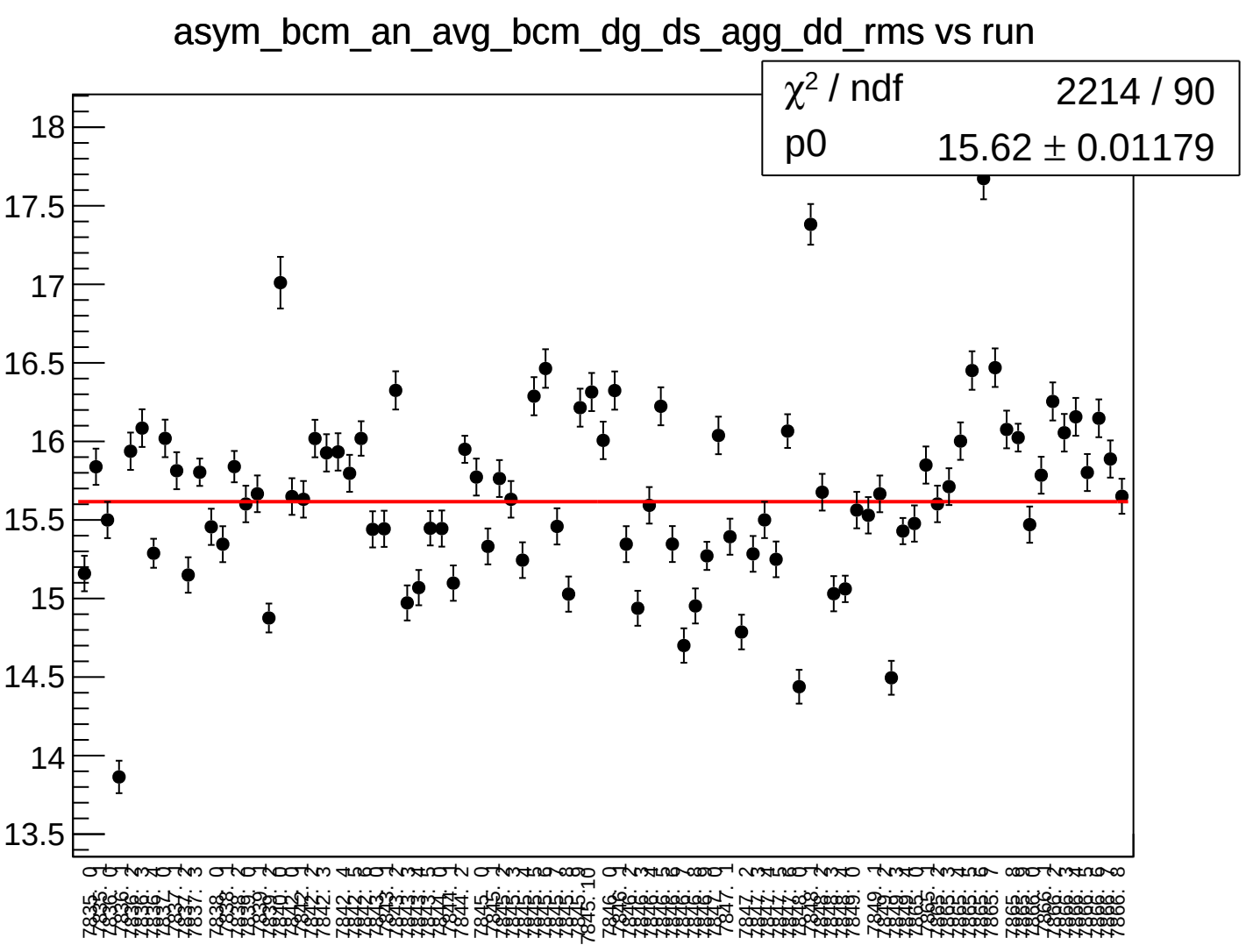

yield_atr2_rms vs run
χ² / ndf 2.045e+05 / 90
p0 0.0006883 ± 5.528e−07
0.0025
0.002
0.0015
0.001
0.0005

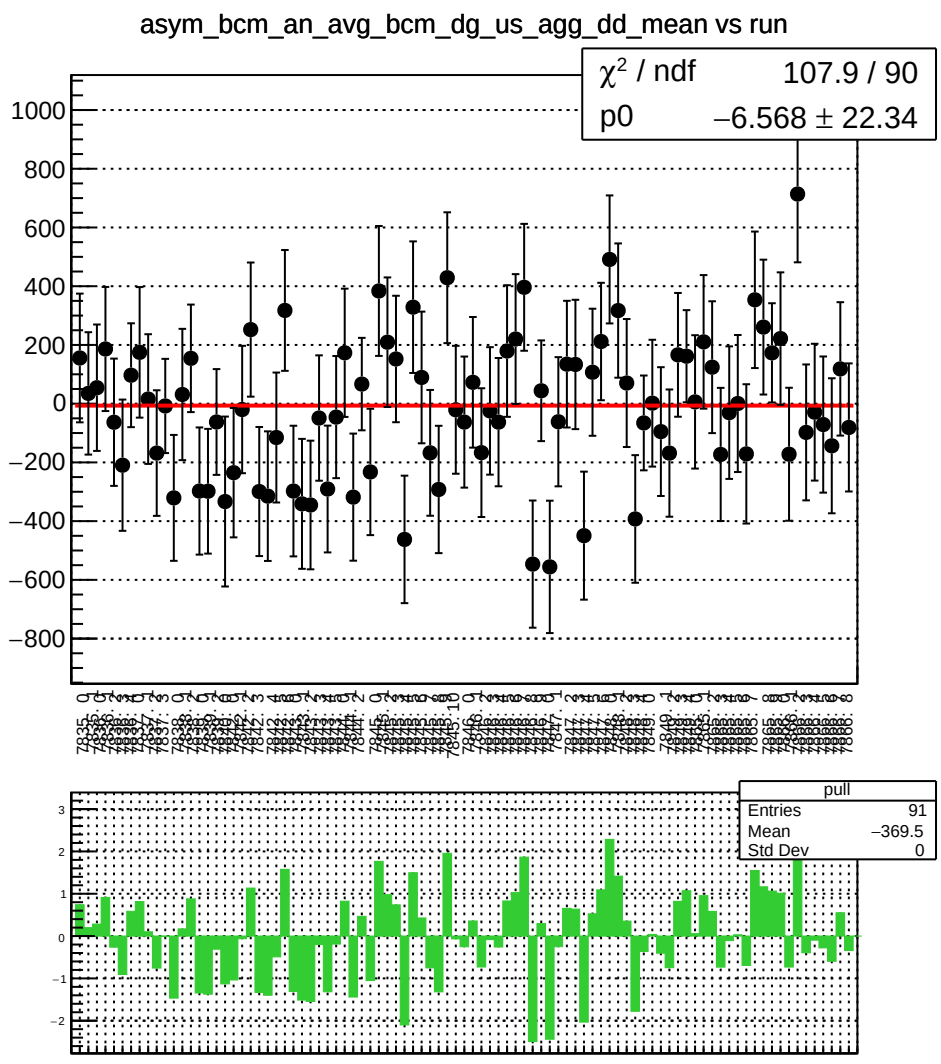

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 25.23 / 90
p0 −185.8 ± 146
pull
Entries 91
Mean 15.69
Std Dev 0
pull1D
Entries 91
Mean −0.003063
Std Dev 0.5265

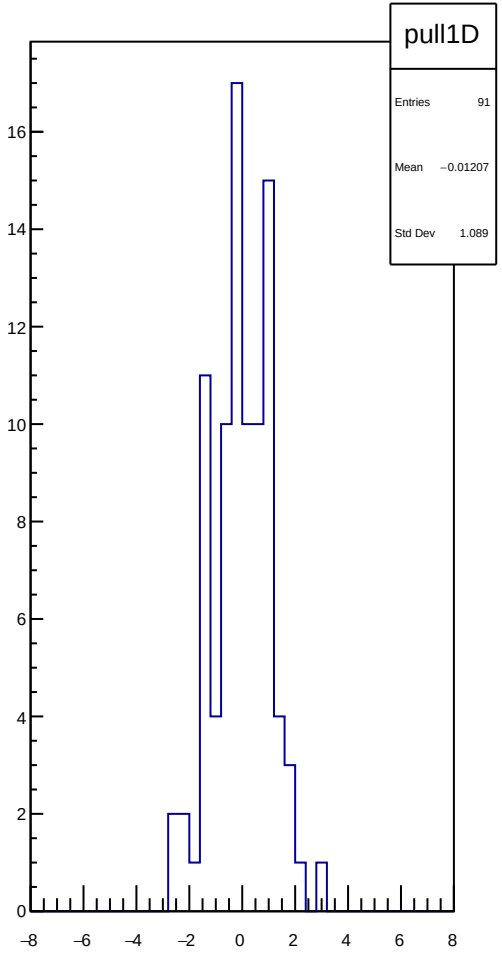

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4307 / 90
p0 136.6 ± 0.1032
160
155
150
145
140
135
130
125

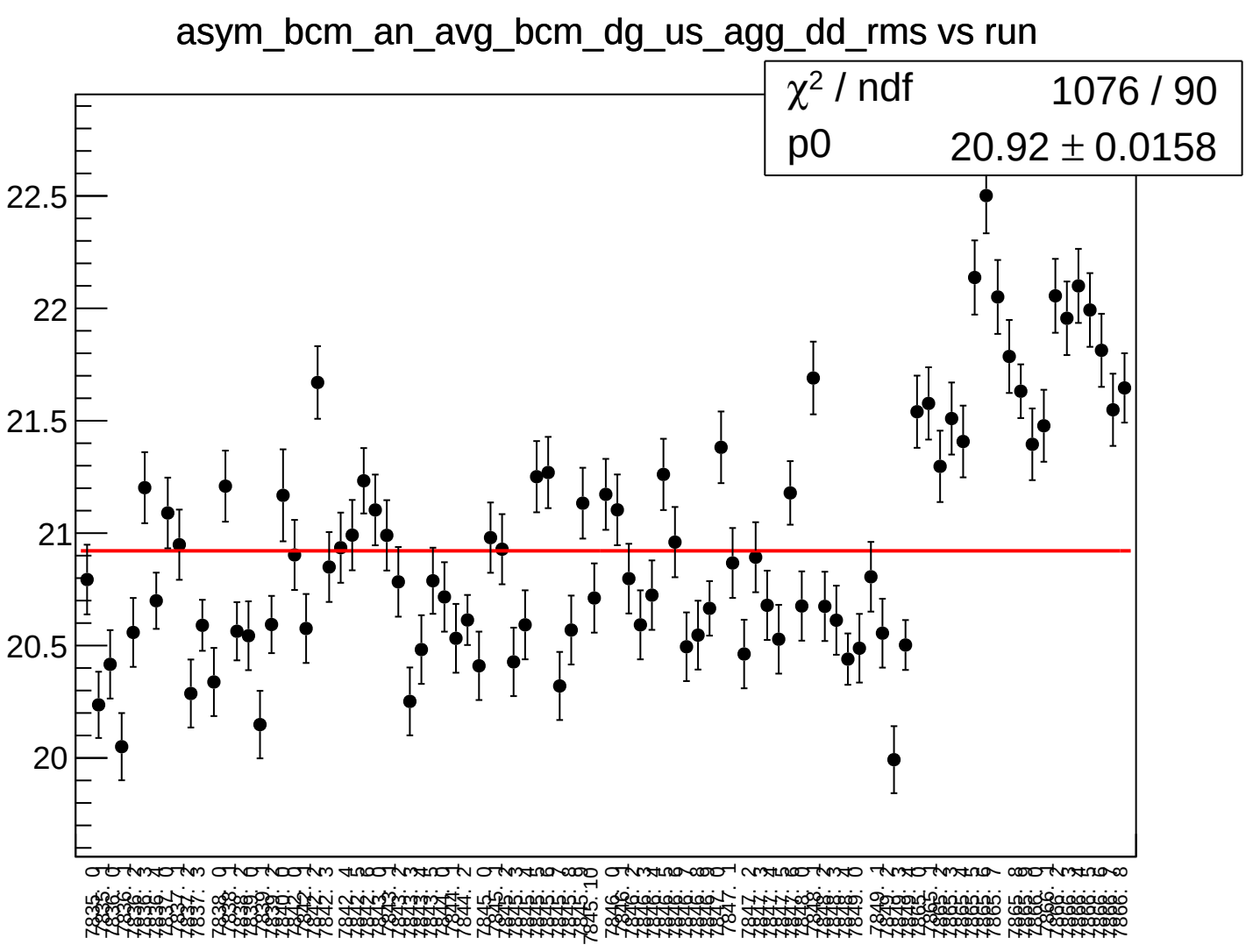

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 95.22 / 90
p0 0.565 ± 16.68
pull
Entries 91
Mean −127.6
Std Dev 0

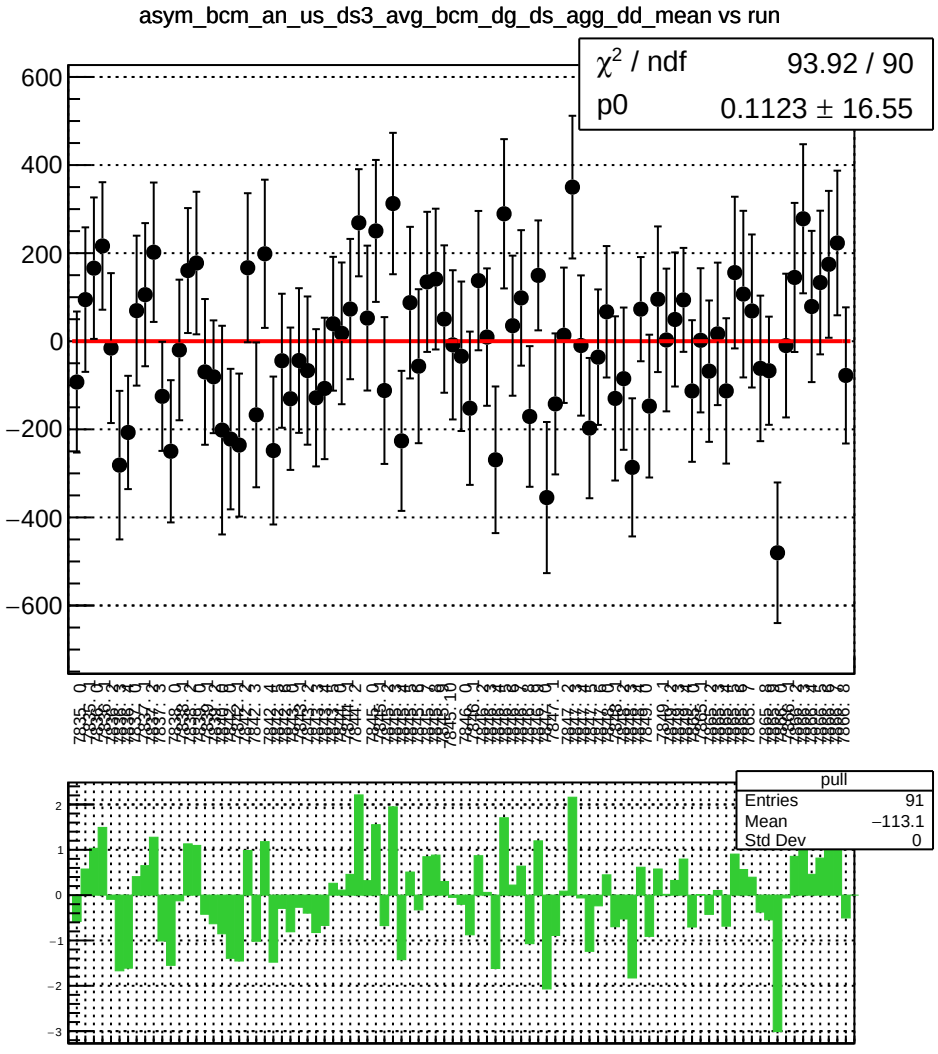

pull1D
Entries 91
Mean −0.00898
Std Dev 1.023

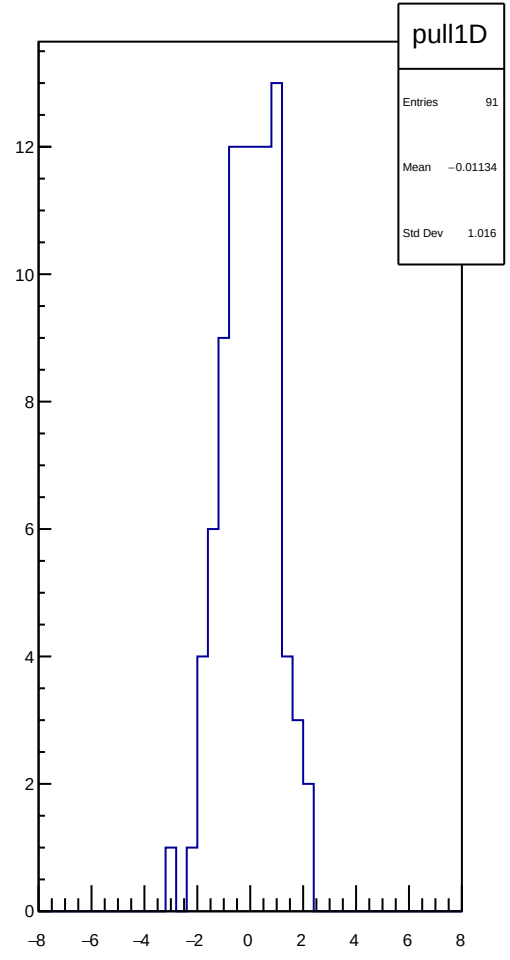

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2214 / 90
p0 15.62 ± 0.01179
18
17.5
17
16.5
16
15.5
15
14.5
14
13.5

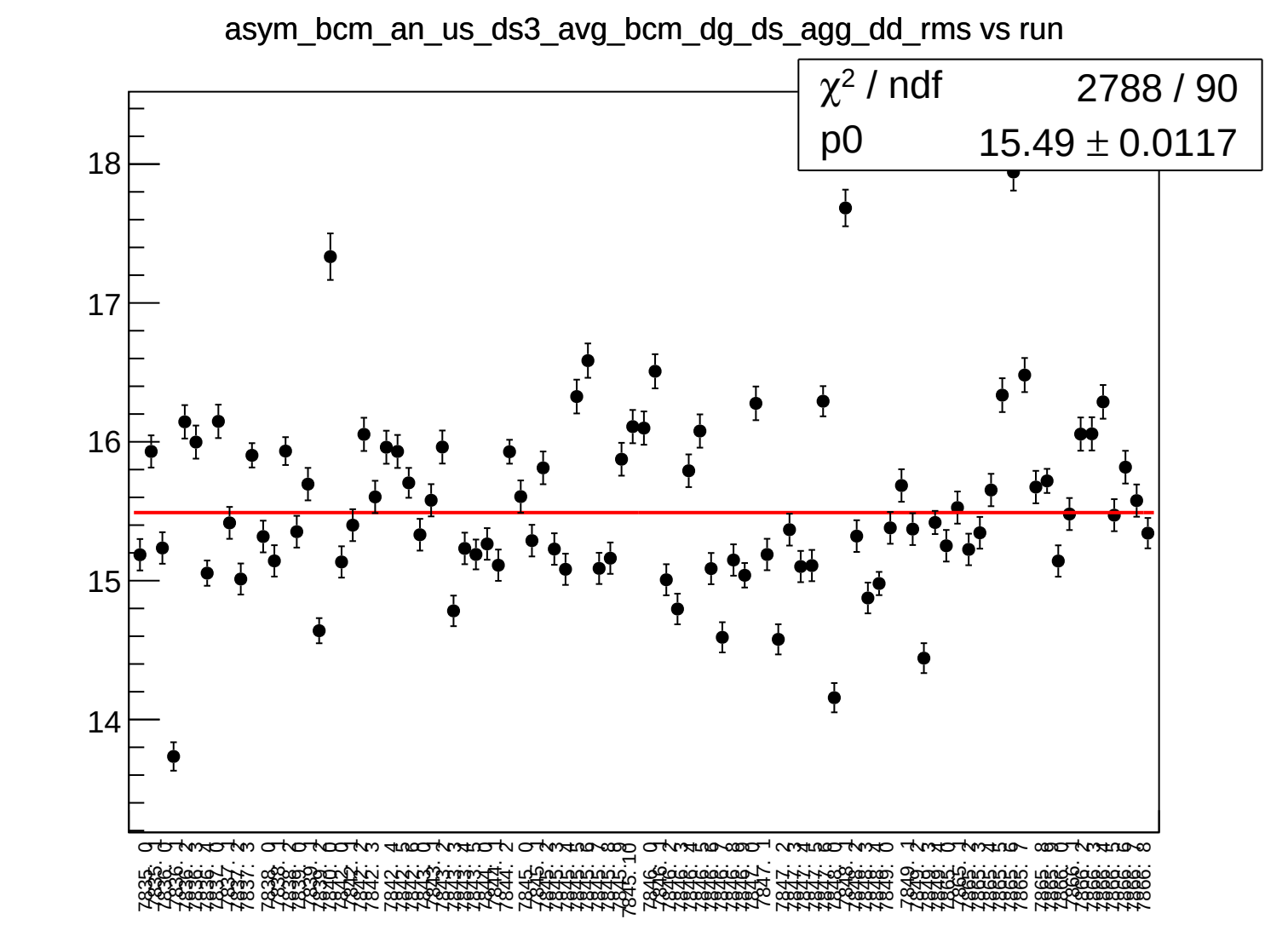

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 107.9 / 90
p0 −6.568 ± 22.34
pull
Entries 91
Mean −369.5
Std Dev 0

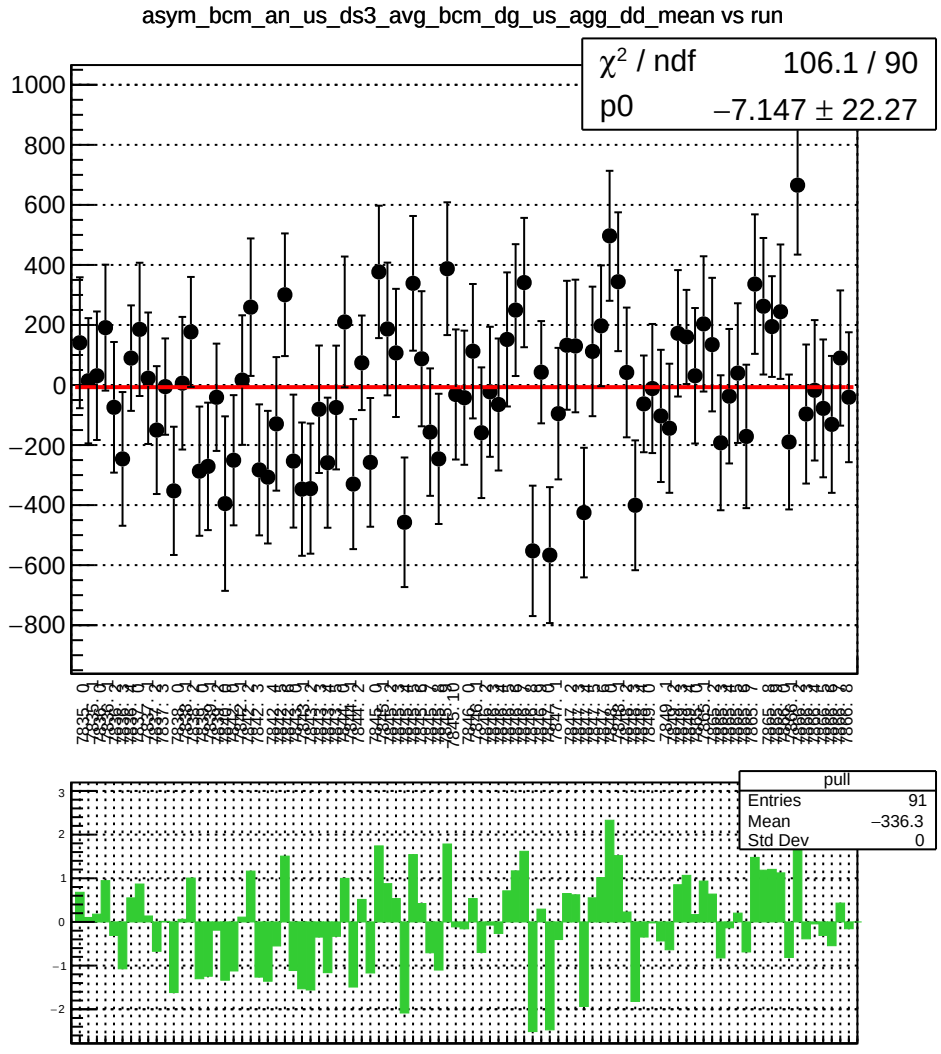

pull1D
Entries 91
Mean −0.01207
Std Dev 1.089

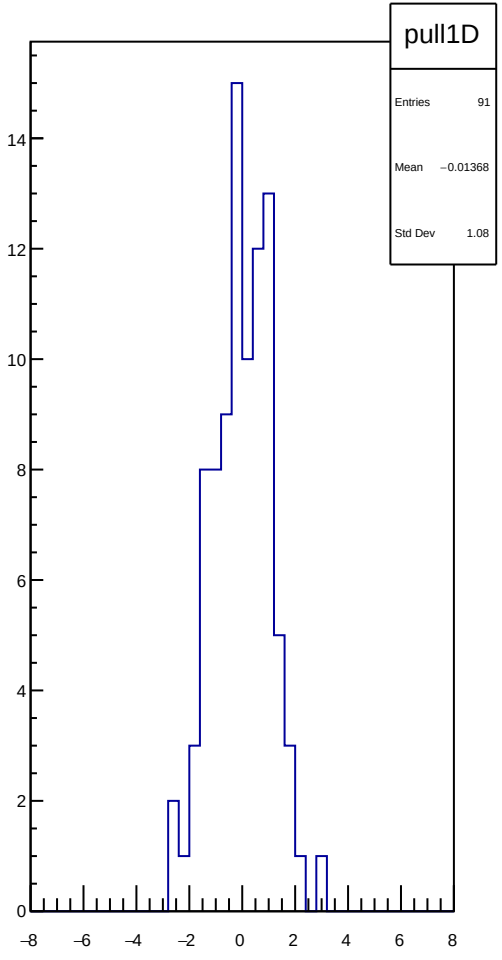

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1076 / 90
p0 20.92 ± 0.0158
22.5
22
21.5
21
20.5
20

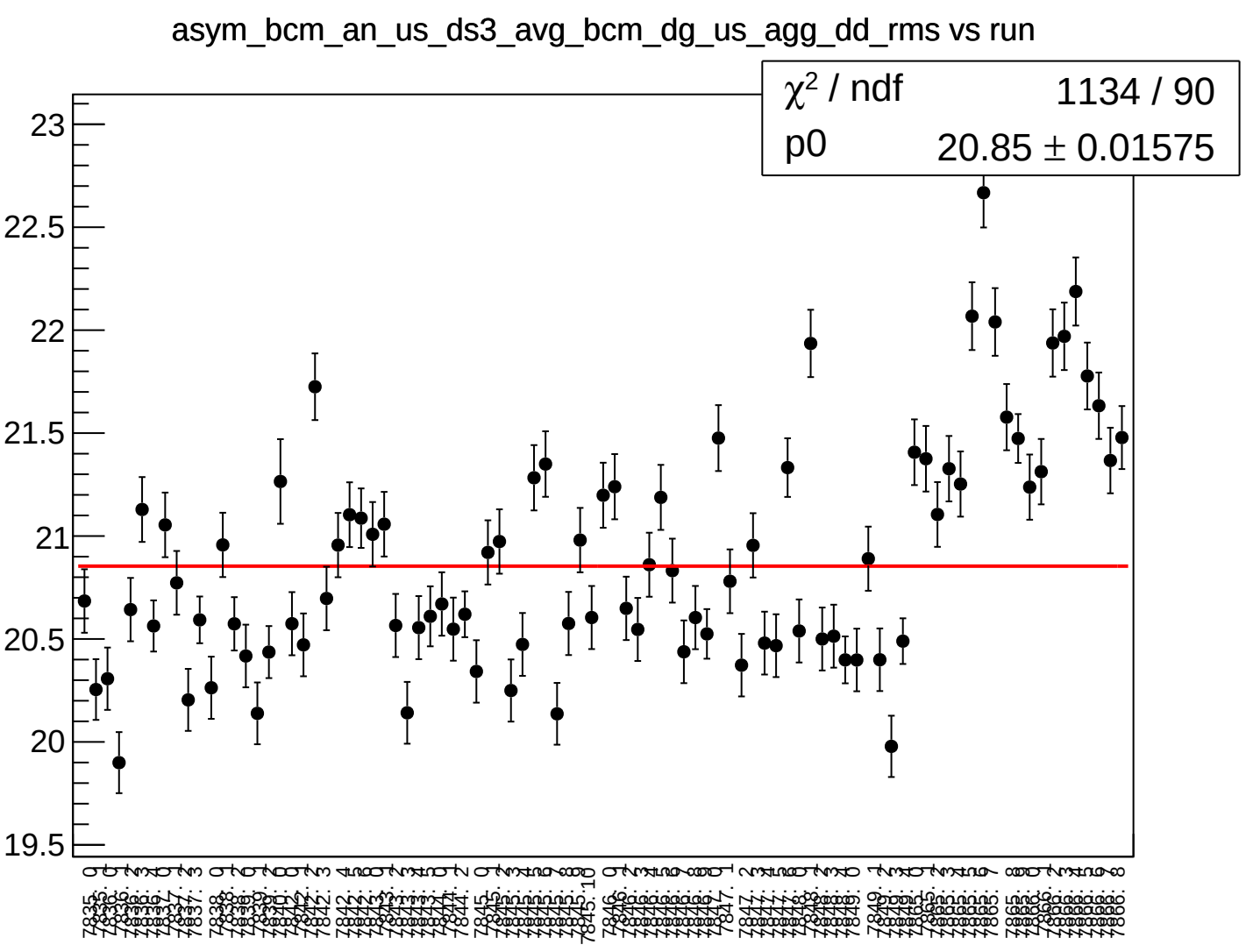

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 93.92 / 90
p0 0.1123 ± 16.55
pull
Entries 91
Mean −113.1
Std Dev 0

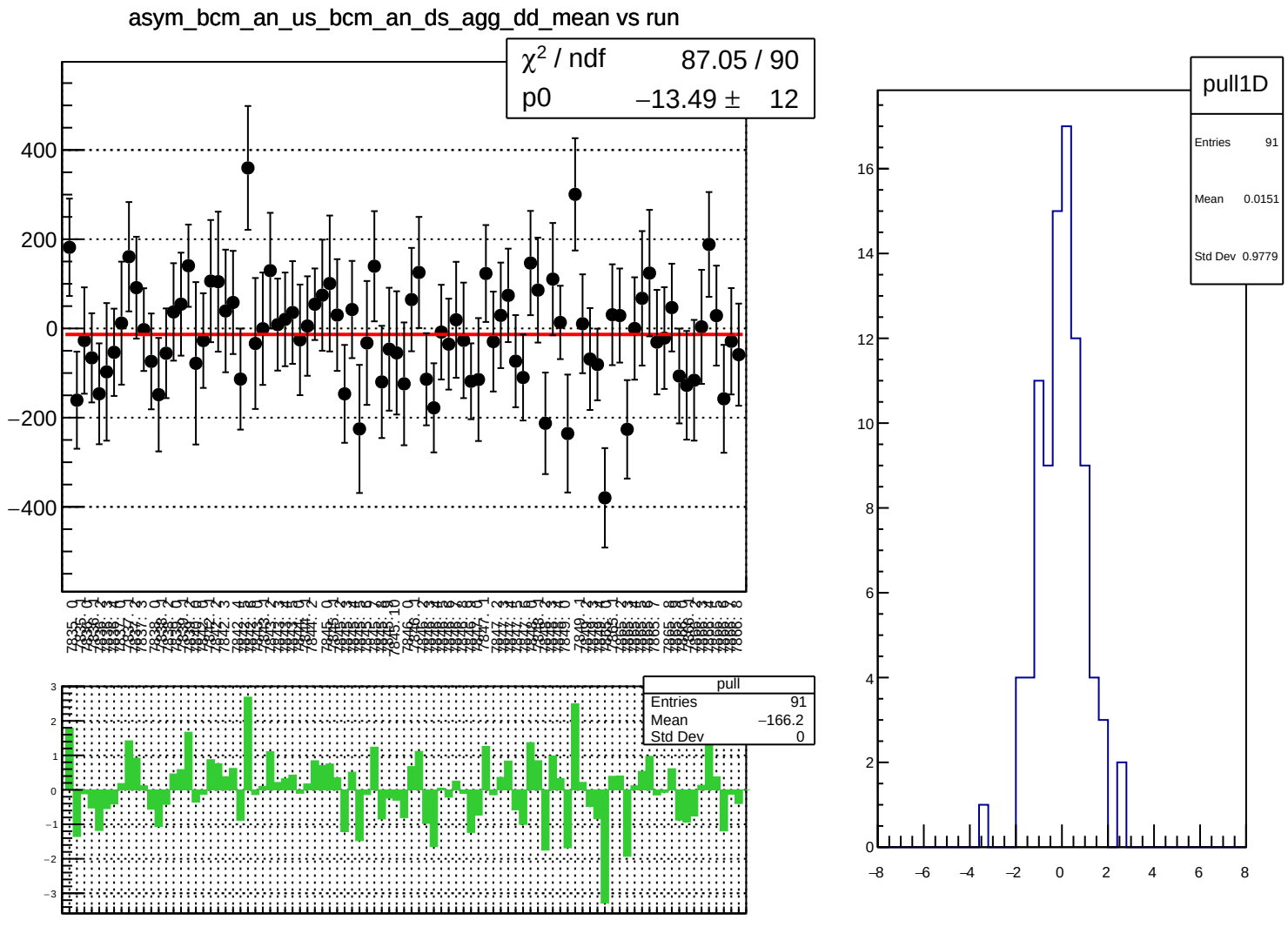

pull1D
Entries 91
Mean −0.01134
Std Dev 1.016

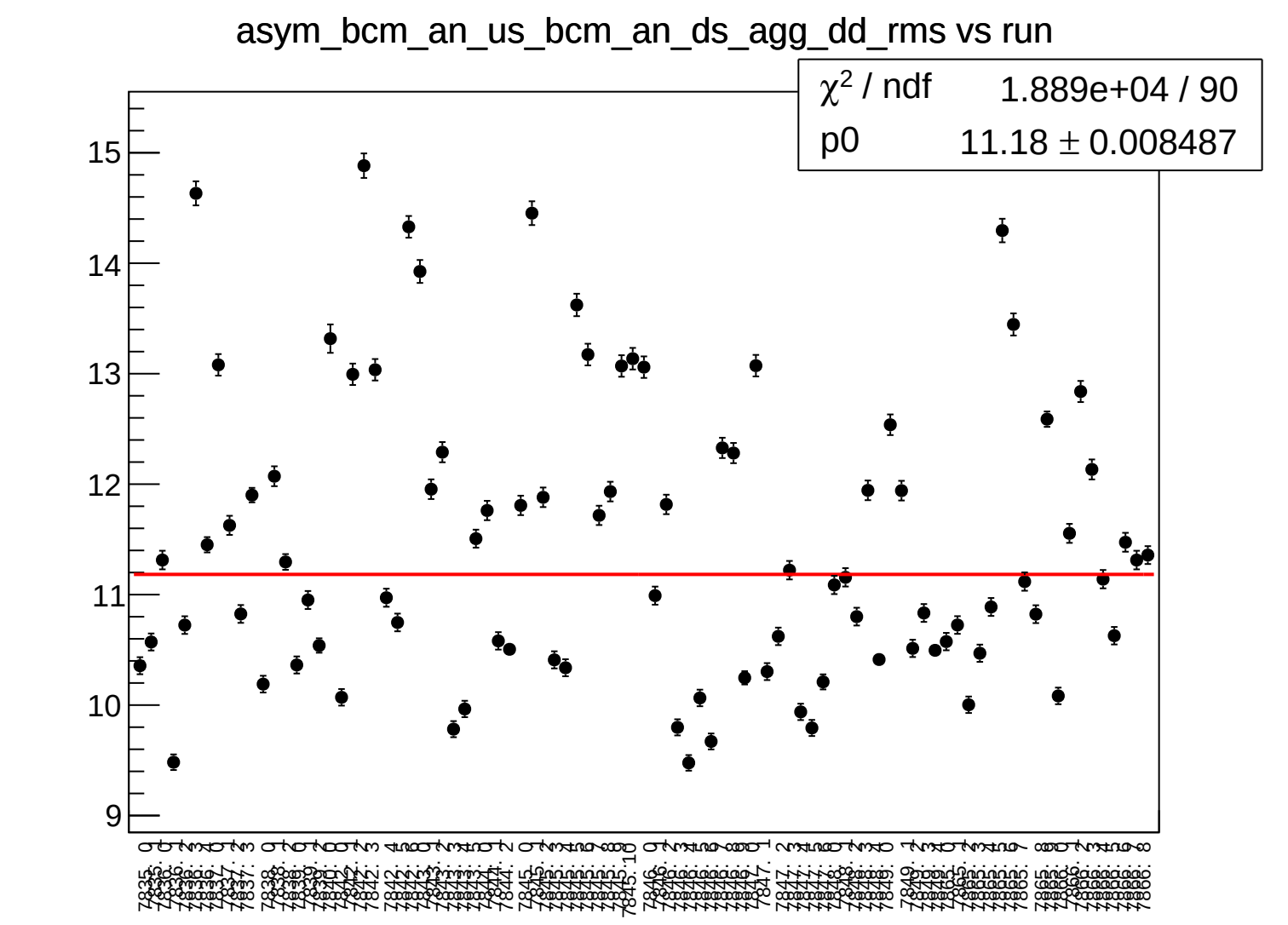

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2788 / 90
p0 15.49 ± 0.0117
18
17
16
15
14

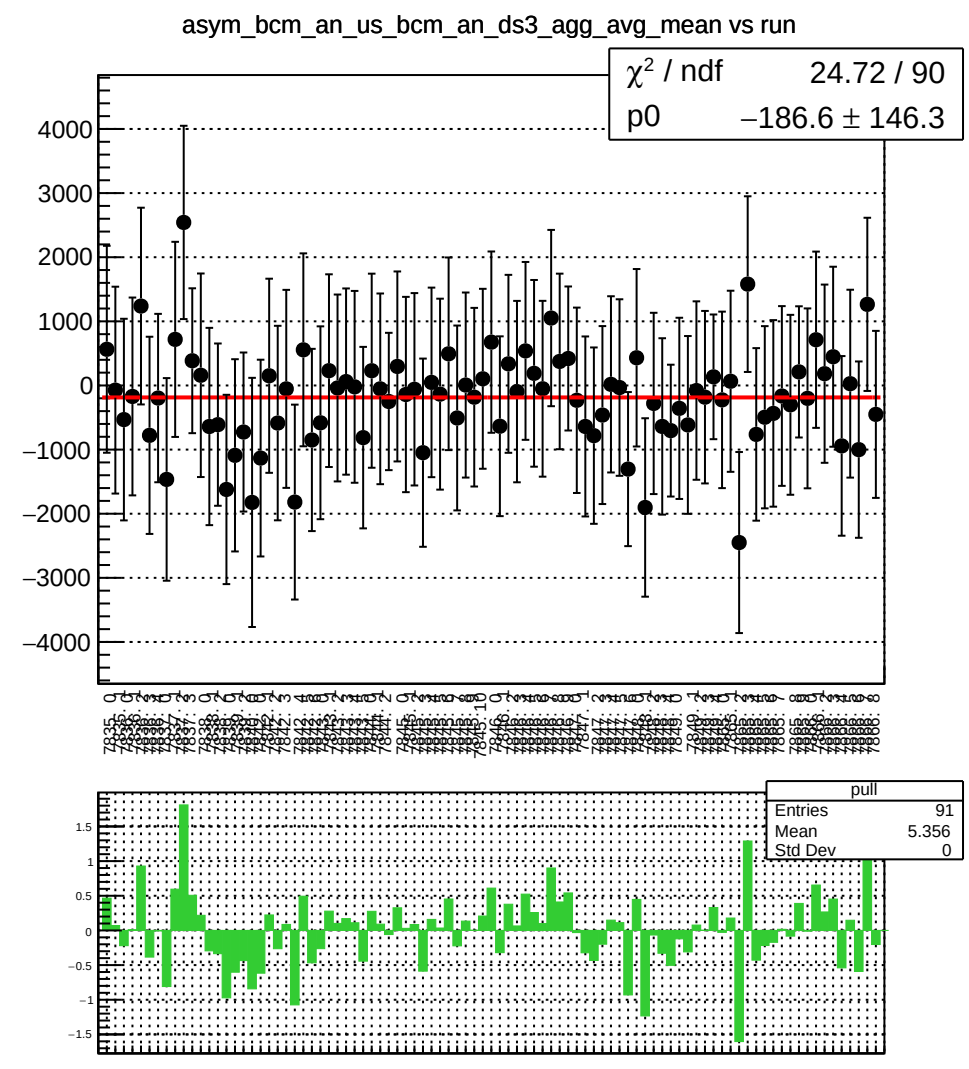

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 106.1 / 90
p0 −7.147 ± 22.27
pull
Entries 91
Mean −336.3
Std Dev 0

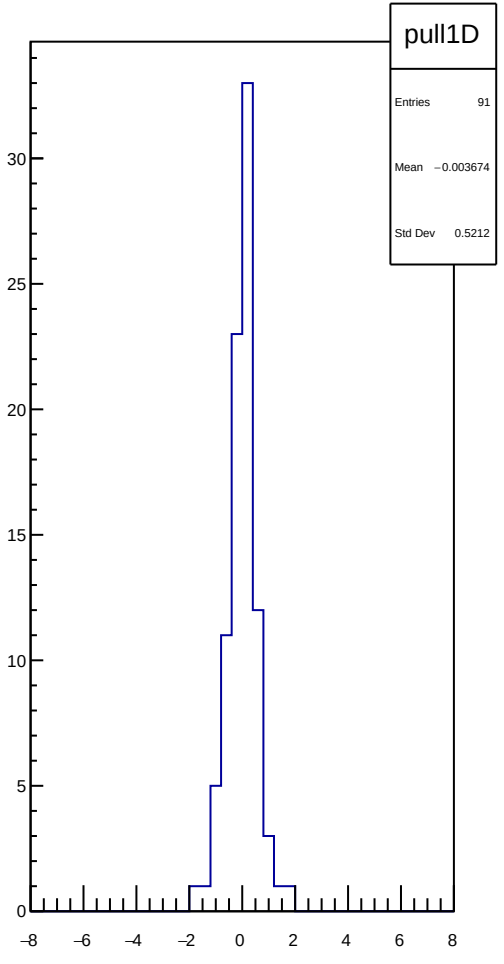

pull1D
Entries 91
Mean −0.01368
Std Dev 1.08

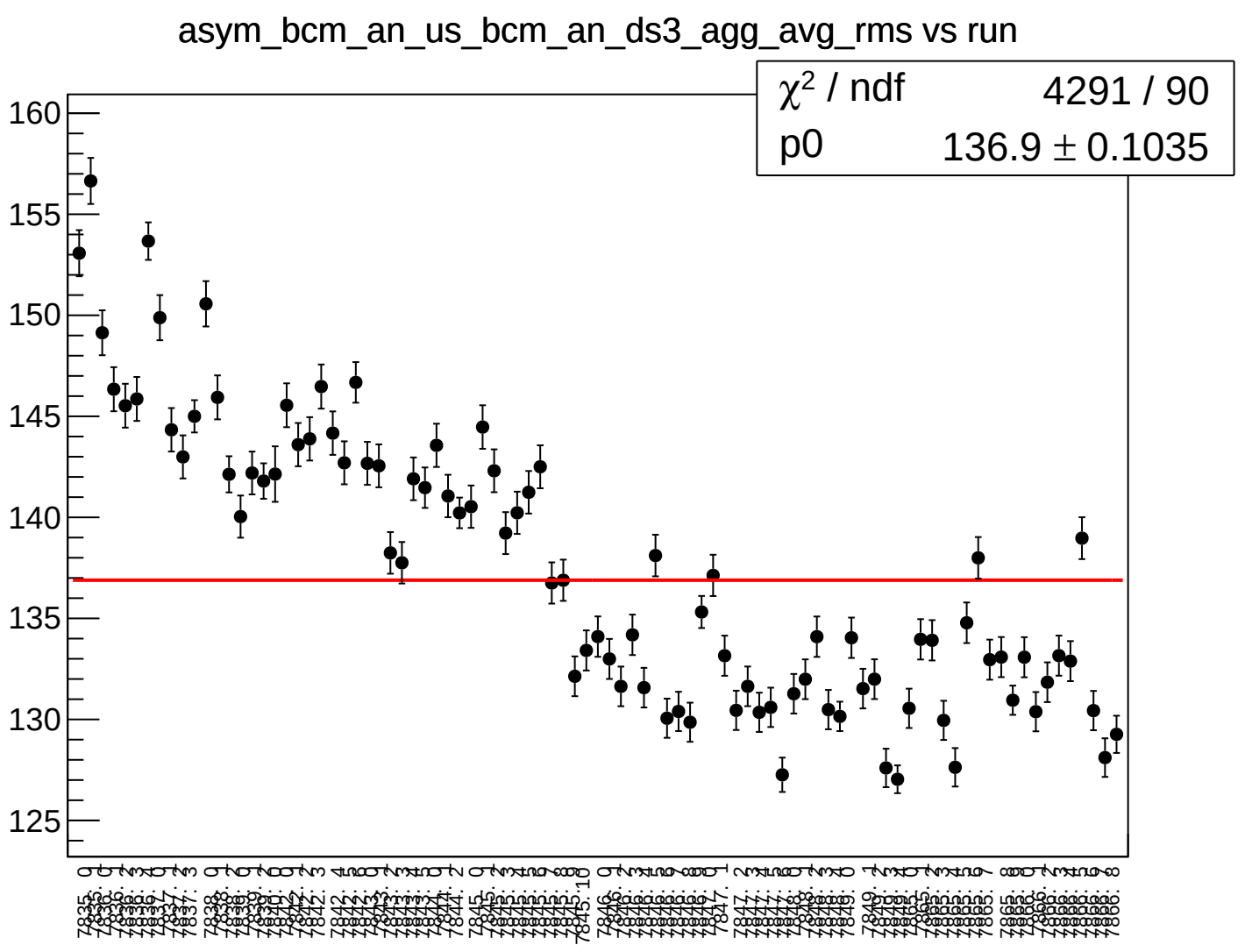

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1134 / 90
p0 20.85 ± 0.01575
23
22.5
22
21.5
21
20.5
20
19.5

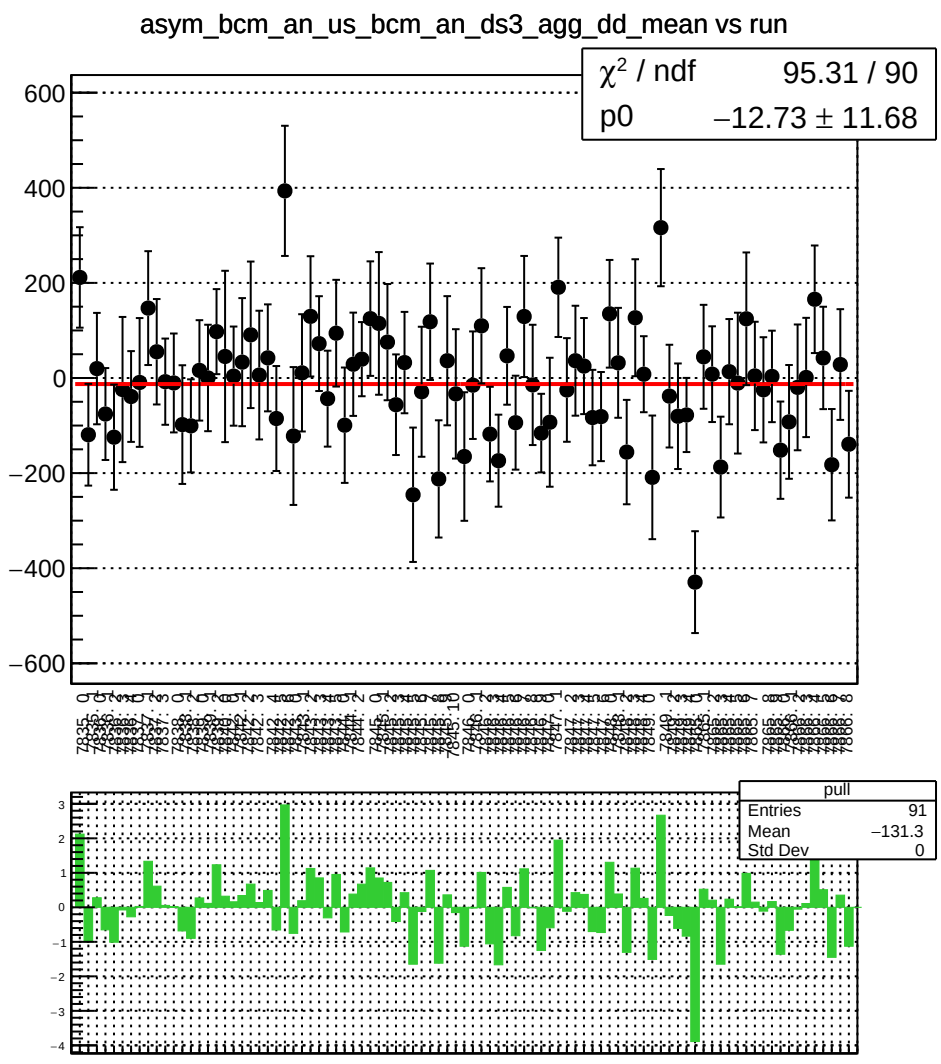

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 87.05 / 90
p0 −13.49 ± 12
400
200
0
−200
−400
pull
Entries 91
Mean −166.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.0151
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

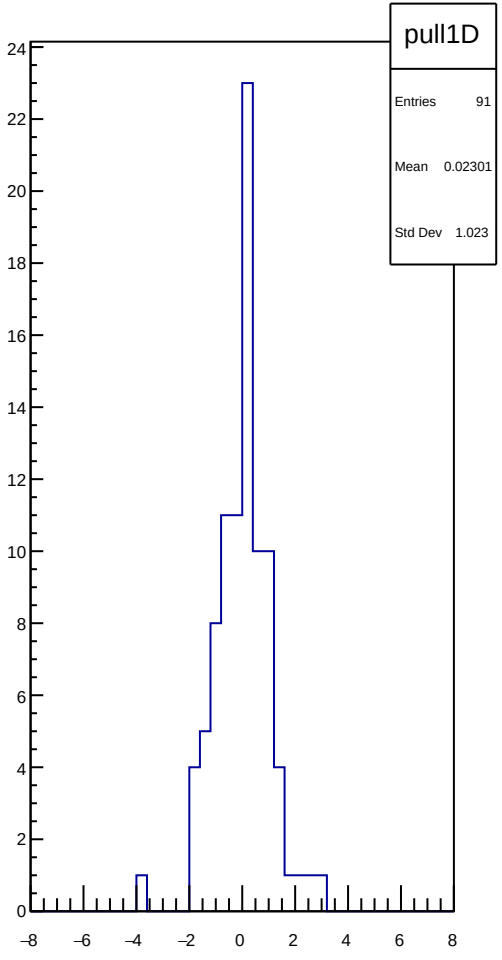

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.889e+04 / 90
p0 11.18 ± 0.008487
15
14
13
12
11
10
9

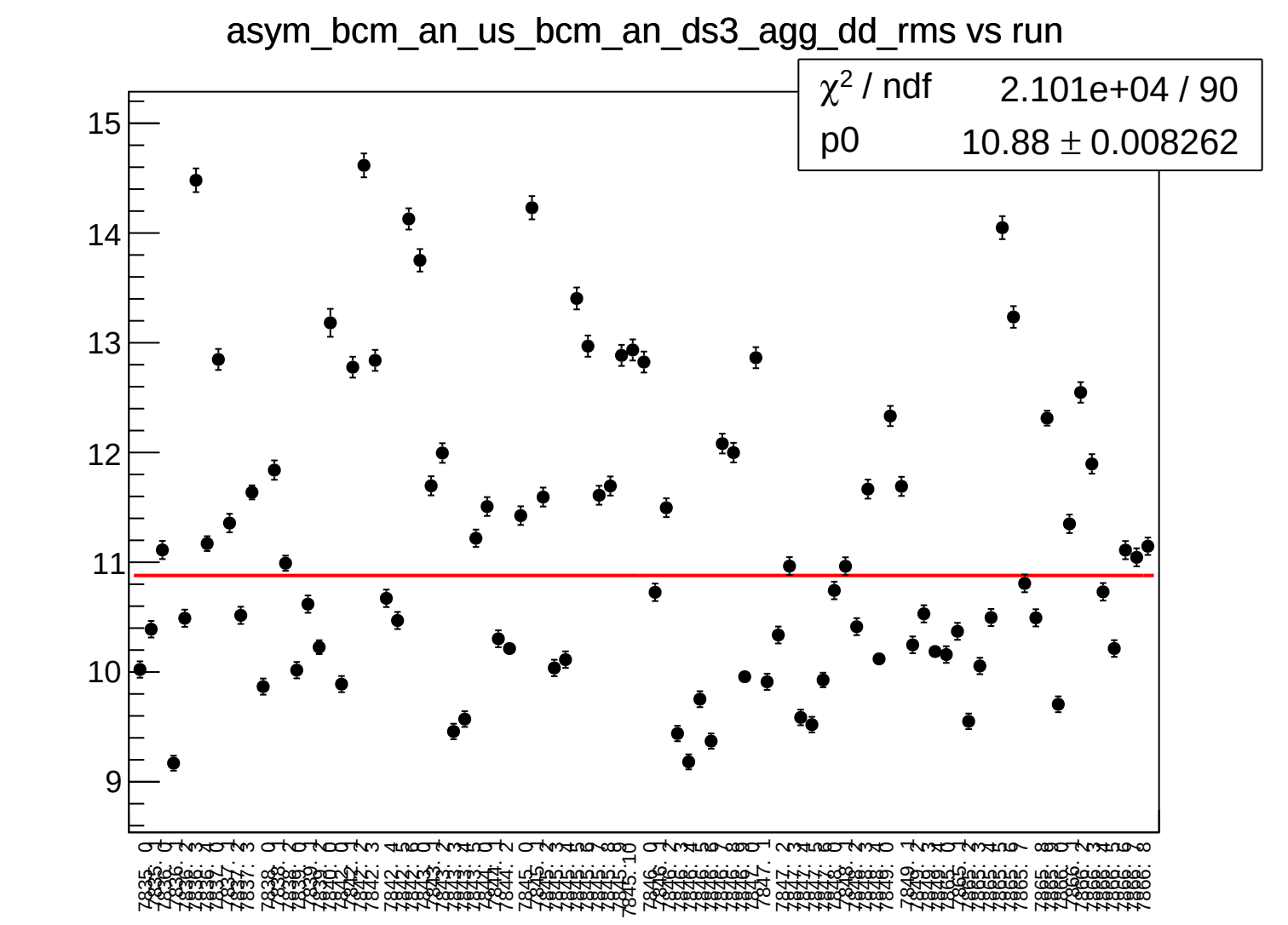

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 24.72 / 90
p0 −186.6 ± 146.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 5.356
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

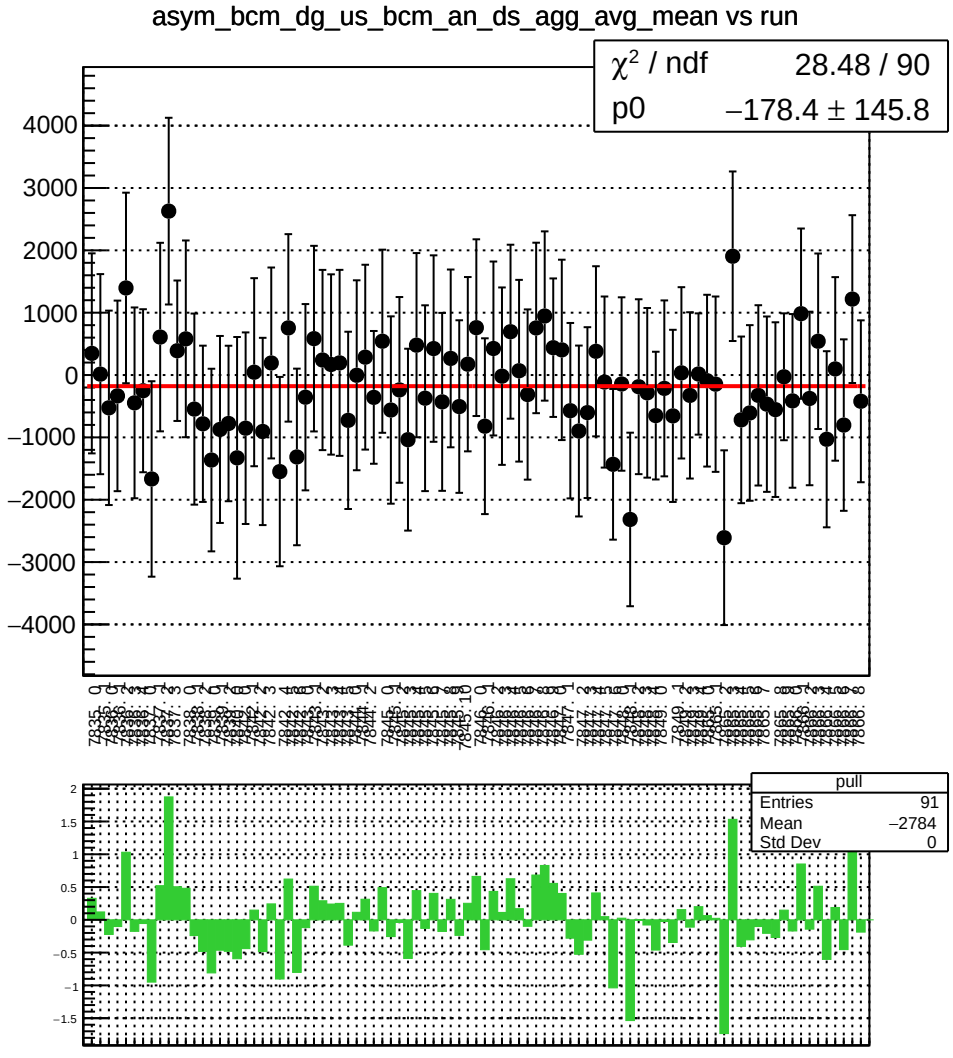

pull1D
Entries 91
Mean −0.003674
Std Dev 0.5212
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

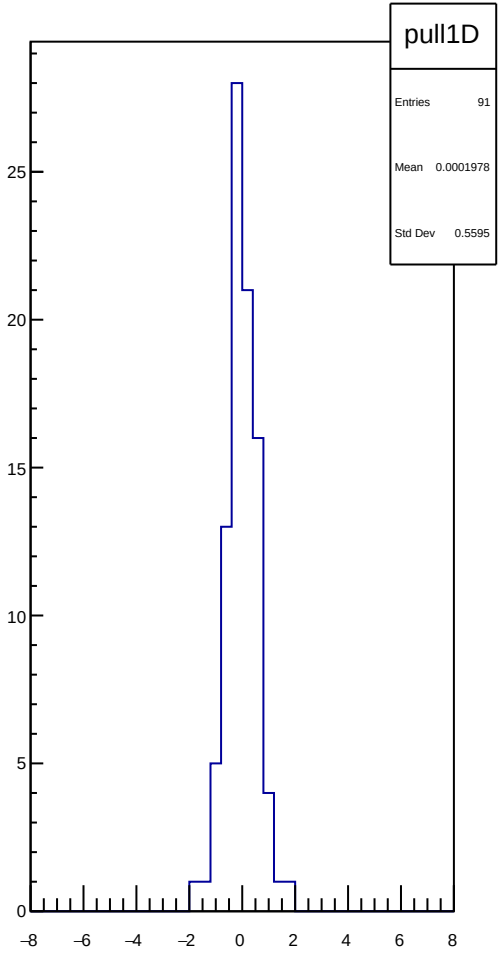

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4291 / 90
p0 136.9 ± 0.1035
160
155
150
145
140
135
130
125

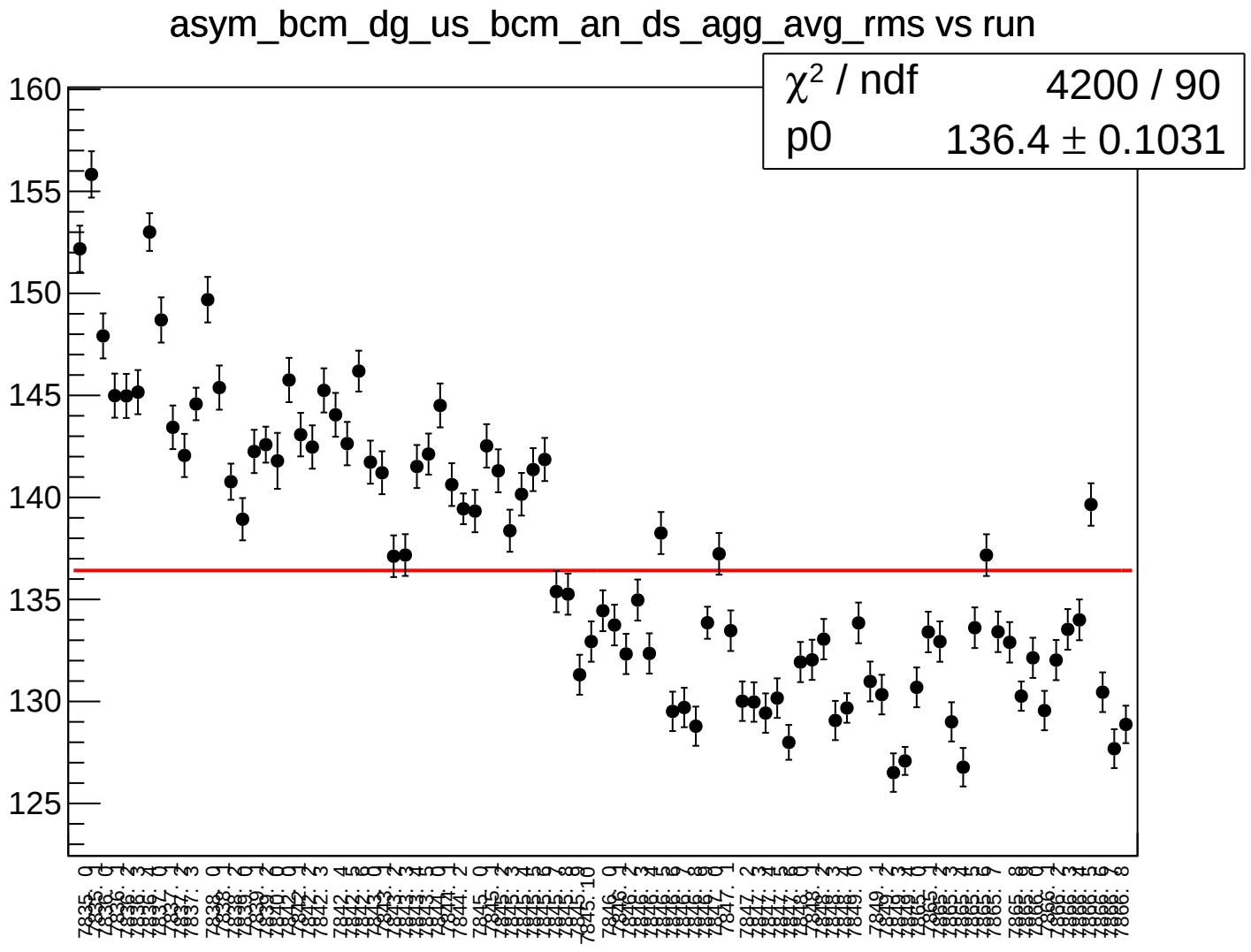

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 95.31 / 90
p0 −12.73 ± 11.68
pull
Entries 91
Mean −131.3
Std Dev 0

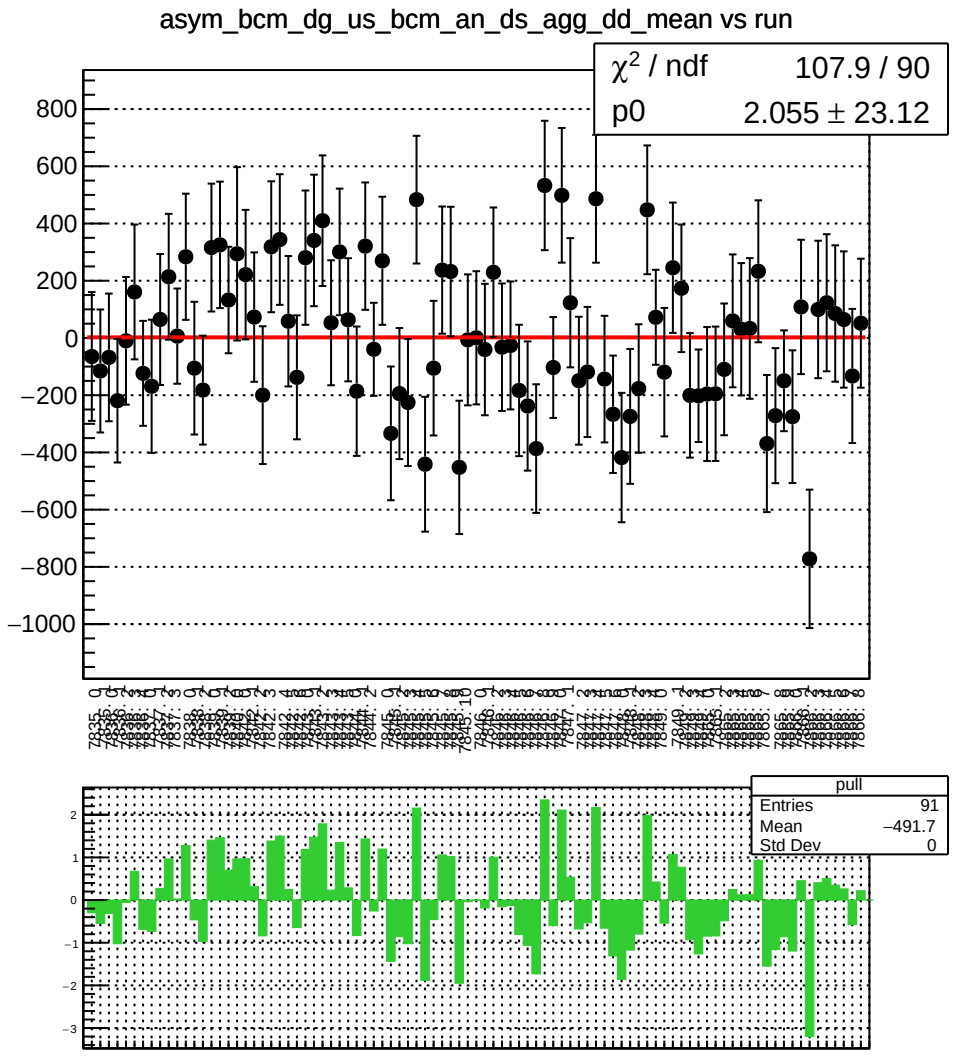

pull1D
Entries 91
Mean 0.02301
Std Dev 1.023

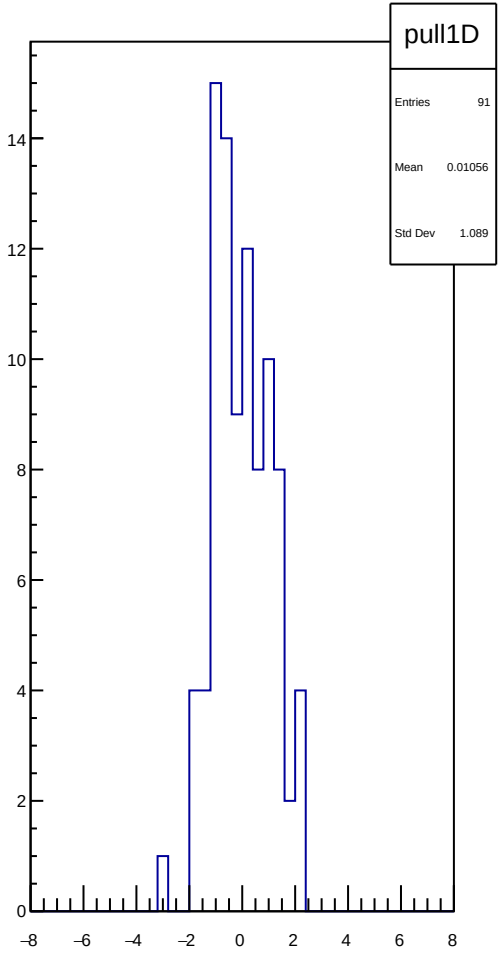

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.101e+04 / 90
p0 10.88 ± 0.008262
15
14
13
12
11
10
9

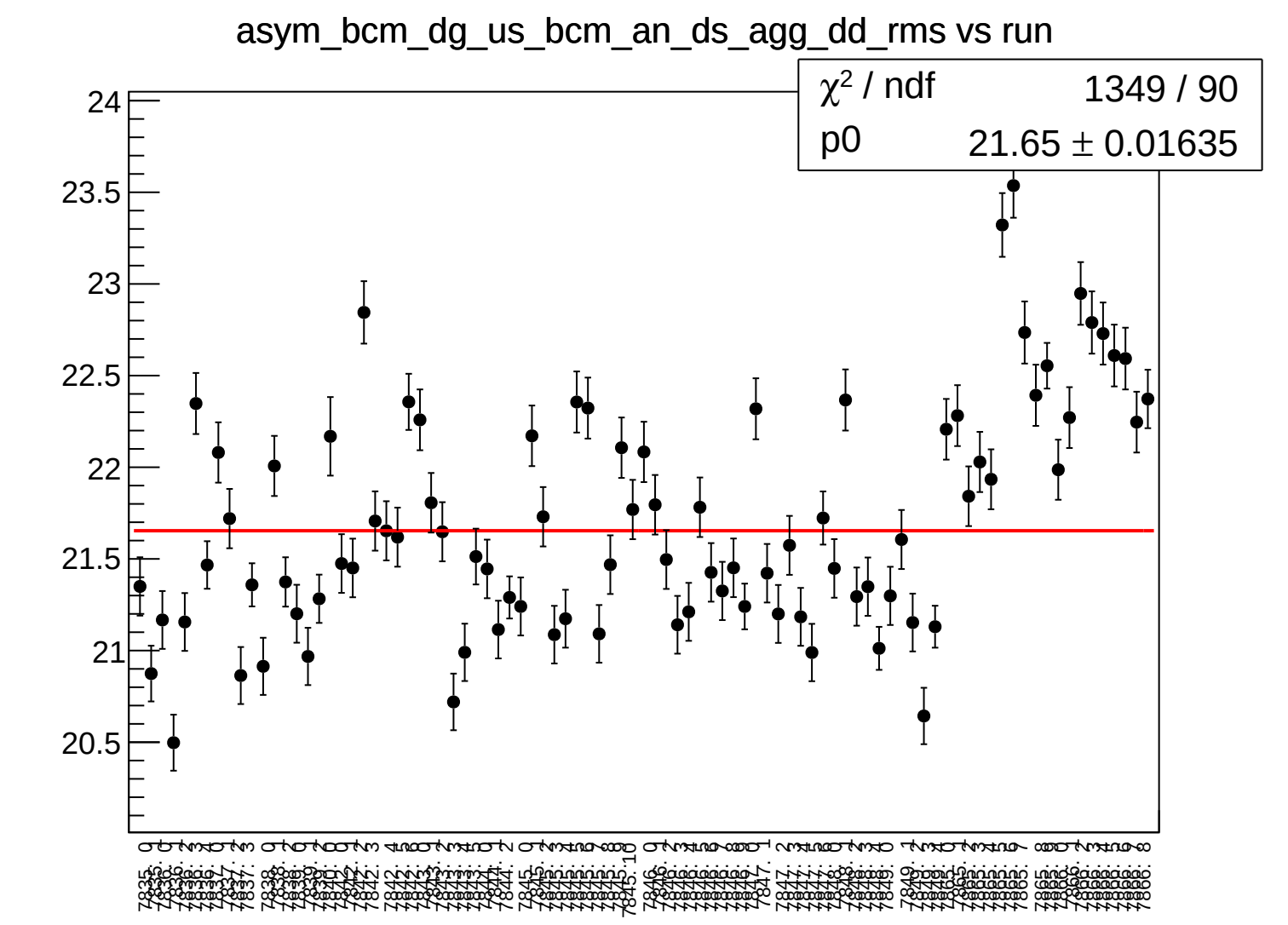

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 28.48 / 90
p0 −178.4 ± 145.8
pull
Entries 91
Mean −2784
Std Dev 0

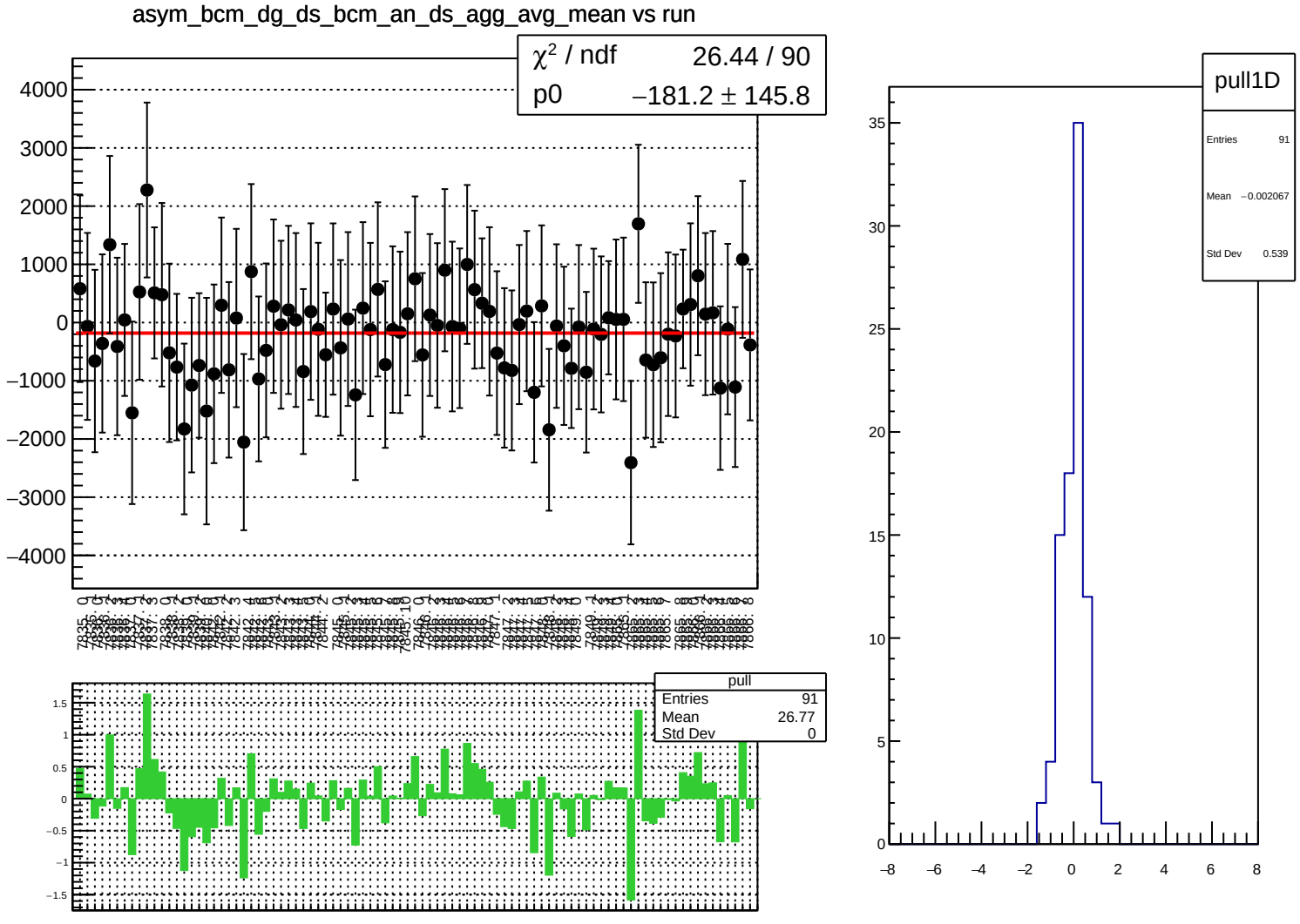

pull1D
Entries 91
Mean 0.0001978
Std Dev 0.5595

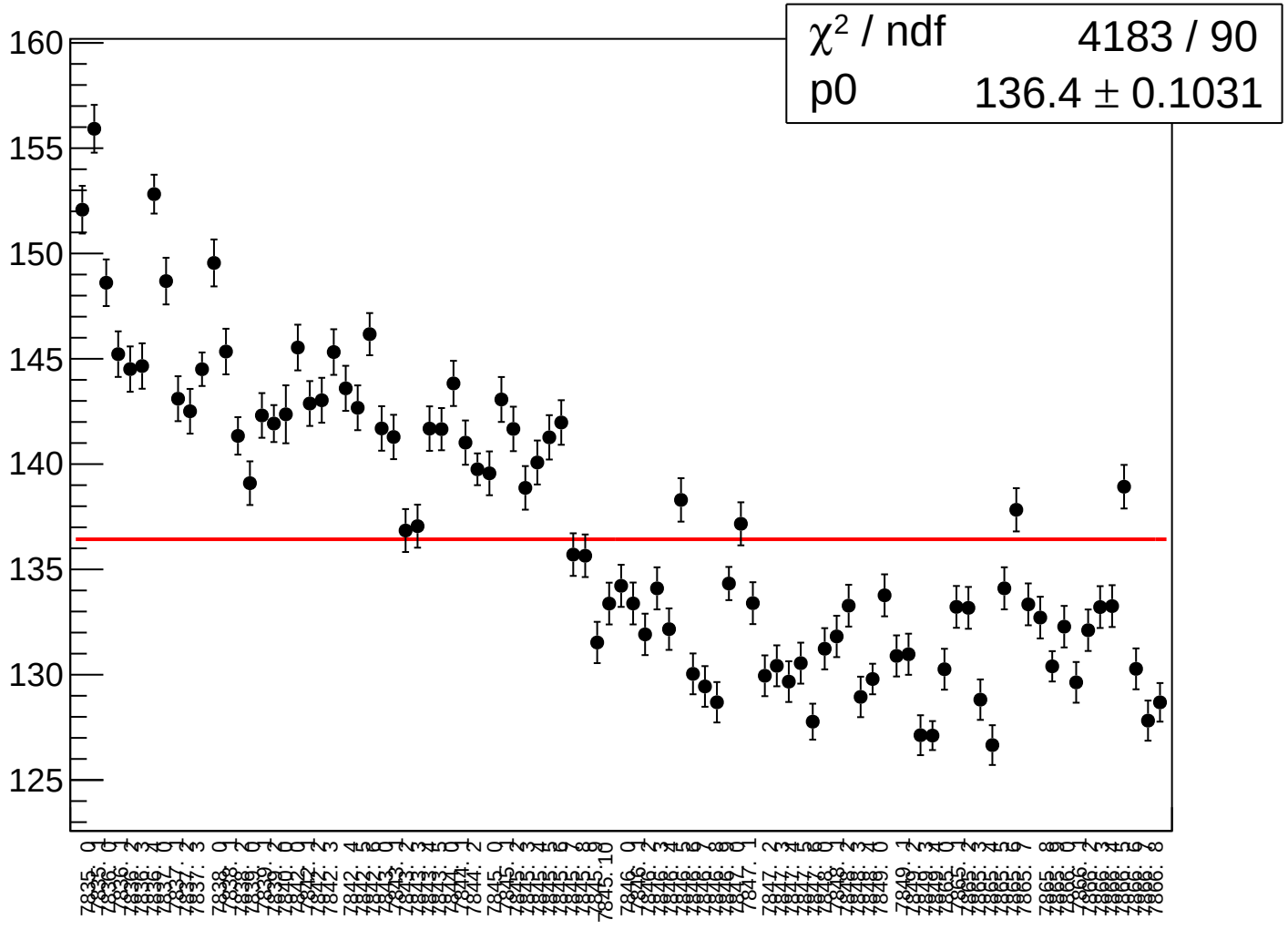

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4200 / 90
p0 136.4 ± 0.1031
160
155
150
145
140
135
130
125

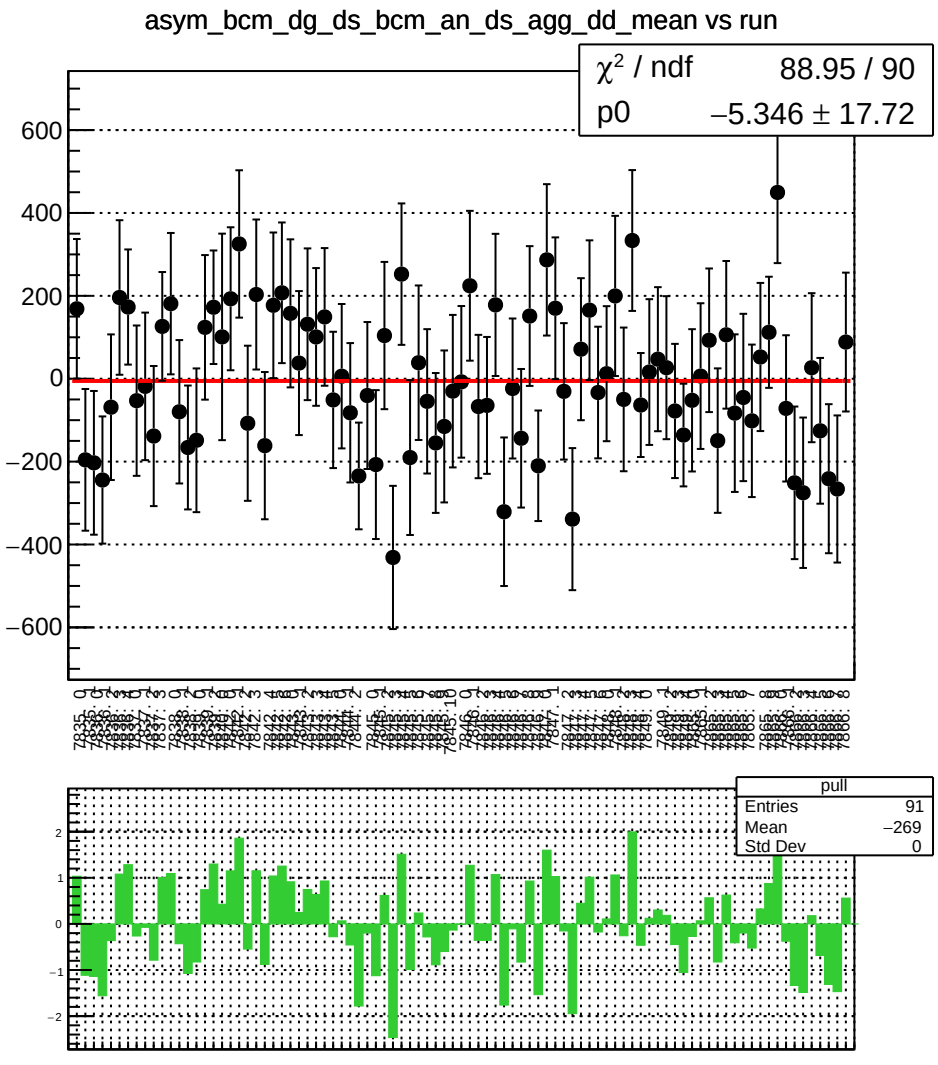

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 107.9 / 90
p0 2.055 ± 23.12
pull
Entries 91
Mean −491.7
Std Dev 0

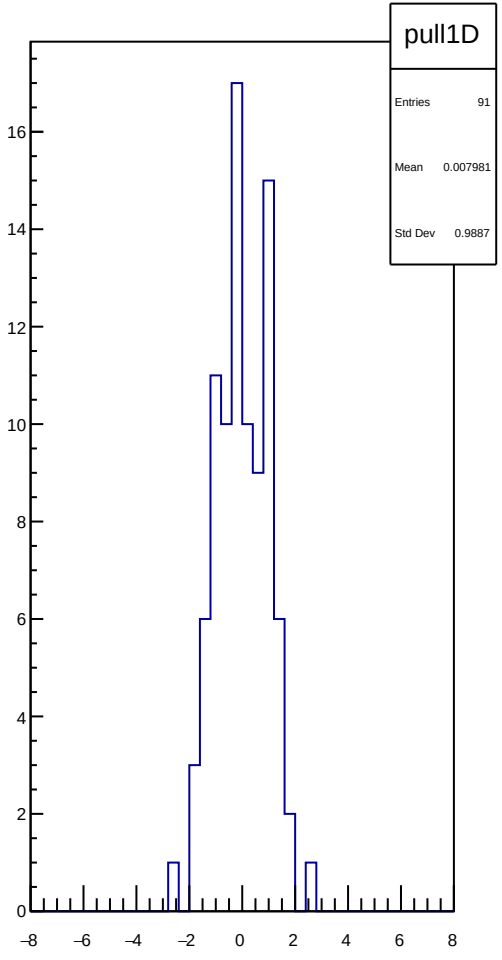

pull1D
Entries 91
Mean 0.01056
Std Dev 1.089

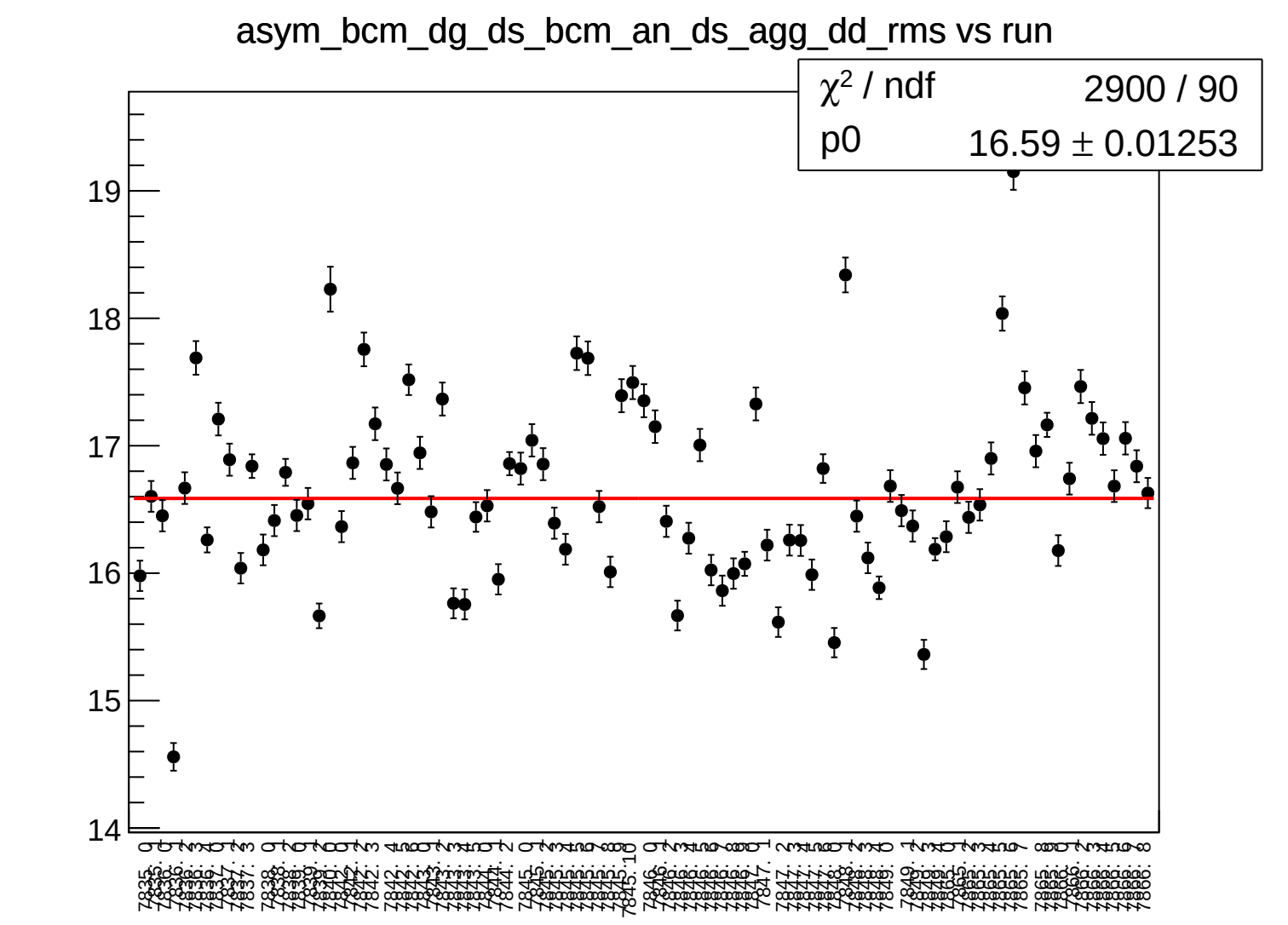

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1349 / 90
p0 21.65 ± 0.01635
24
23.5
23
22.5
22
21.5
21
20.5

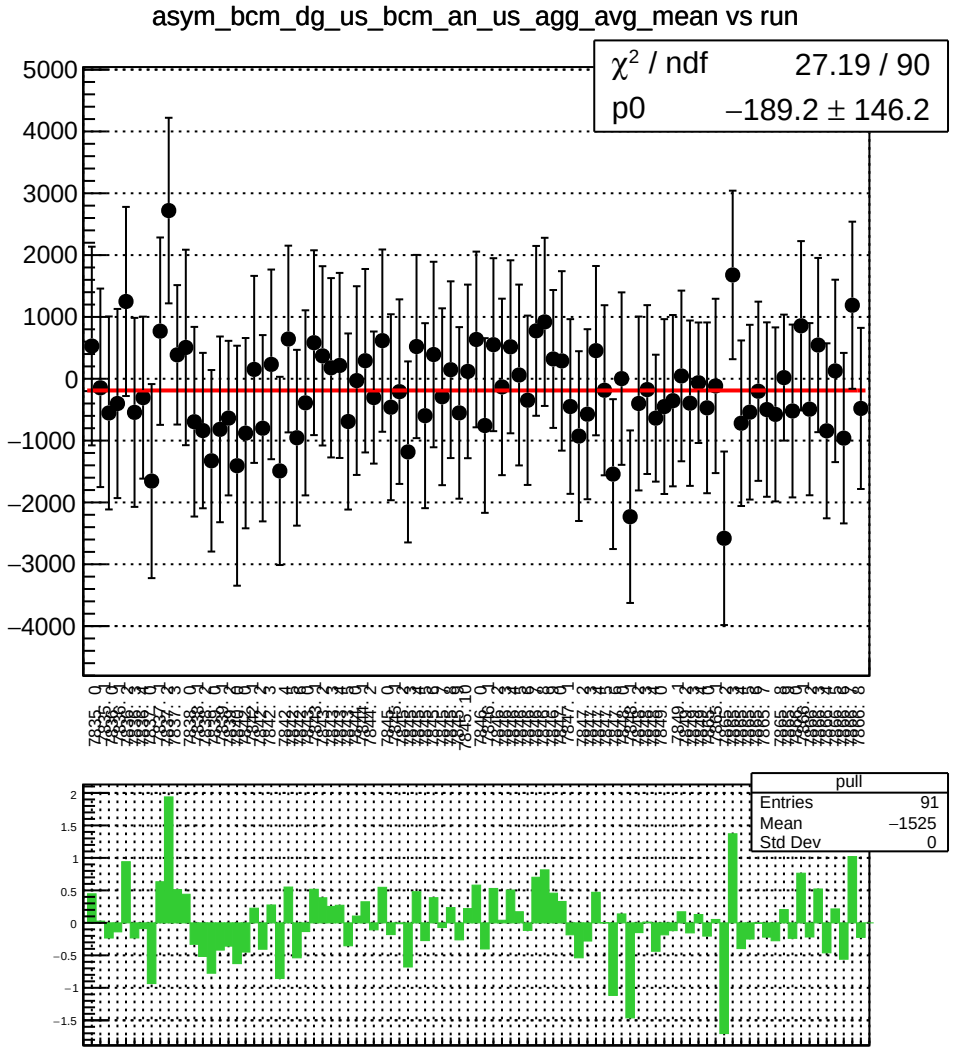

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.44 / 90
p0 −181.2 ± 145.8
pull
Entries 91
Mean 26.77
Std Dev 0
pull1D
Entries 91
Mean −0.002067
Std Dev 0.539

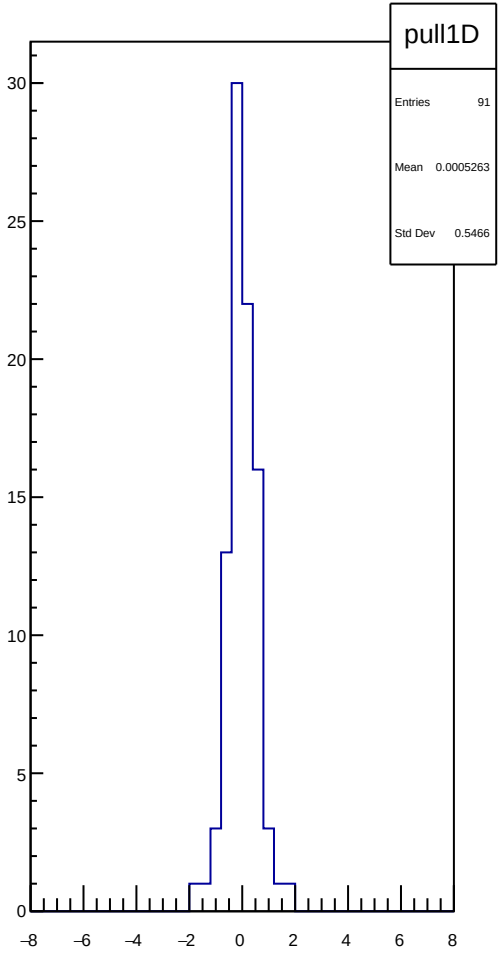

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4183 / 90
p0 136.4 ± 0.1031
160
155
150
145
140
135
130
125

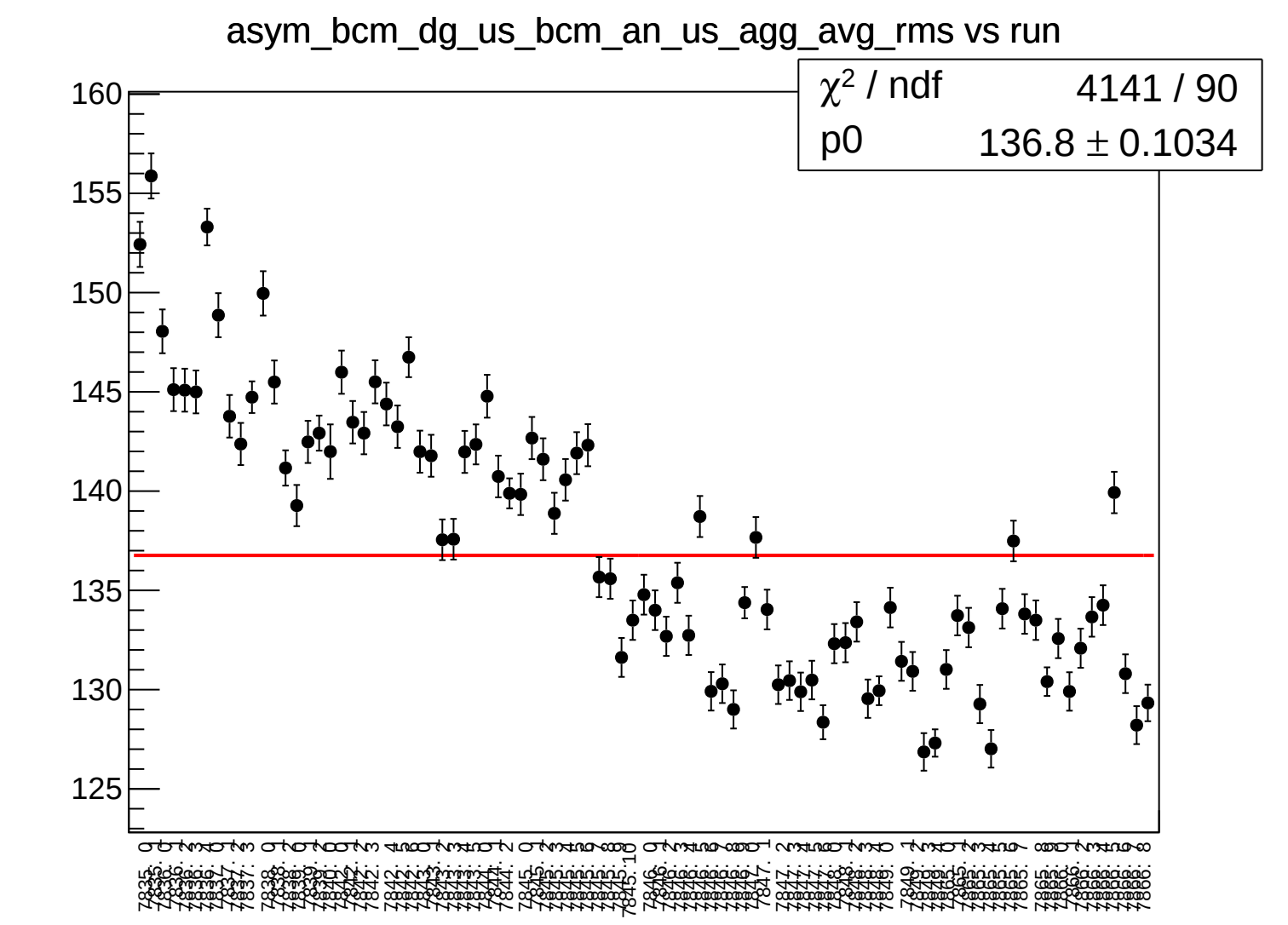

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 88.95 / 90
p0 −5.346 ± 17.72
pull
Entries 91
Mean −269
Std Dev 0

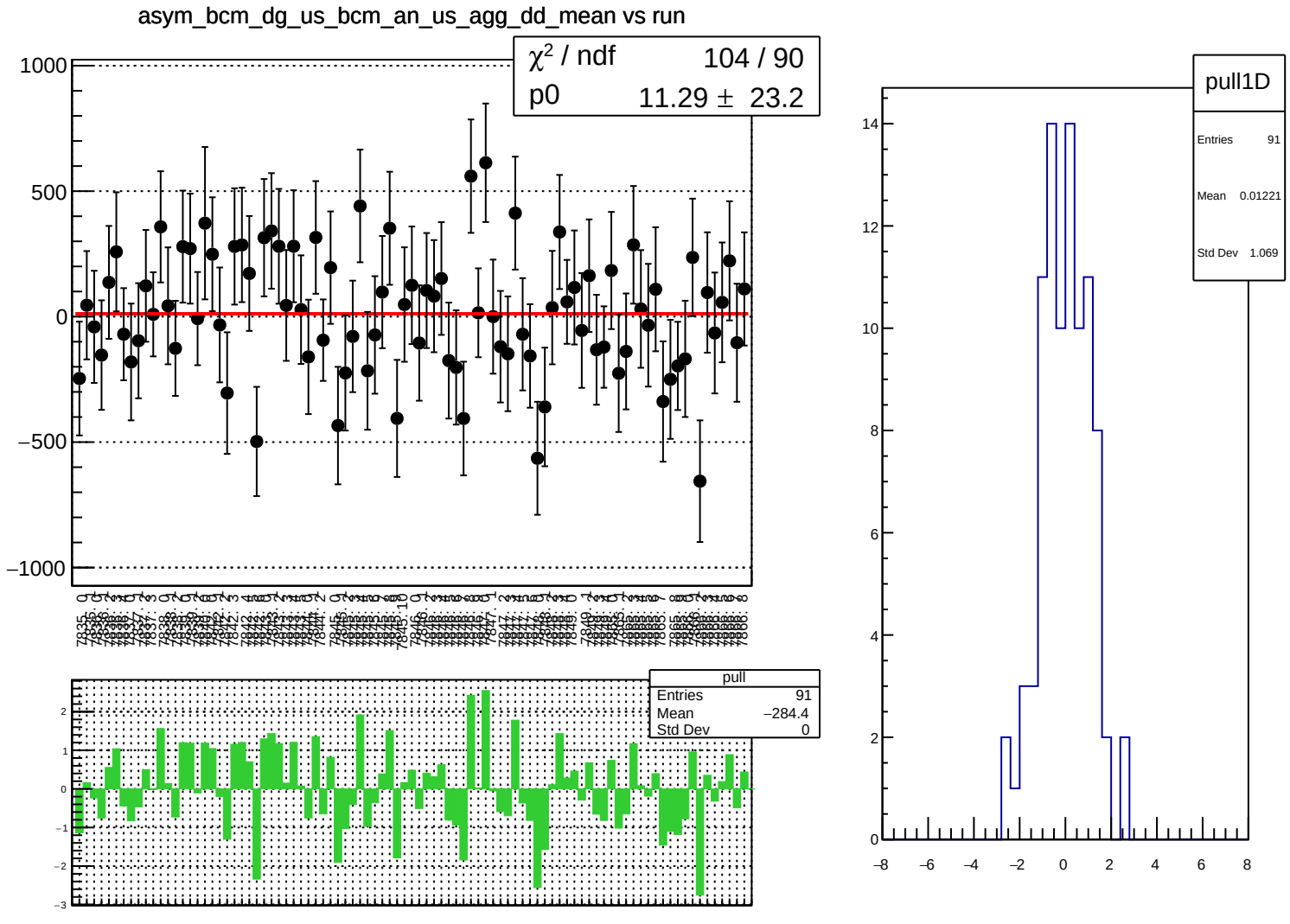

pull1D
Entries 91
Mean 0.007981
Std Dev 0.9887

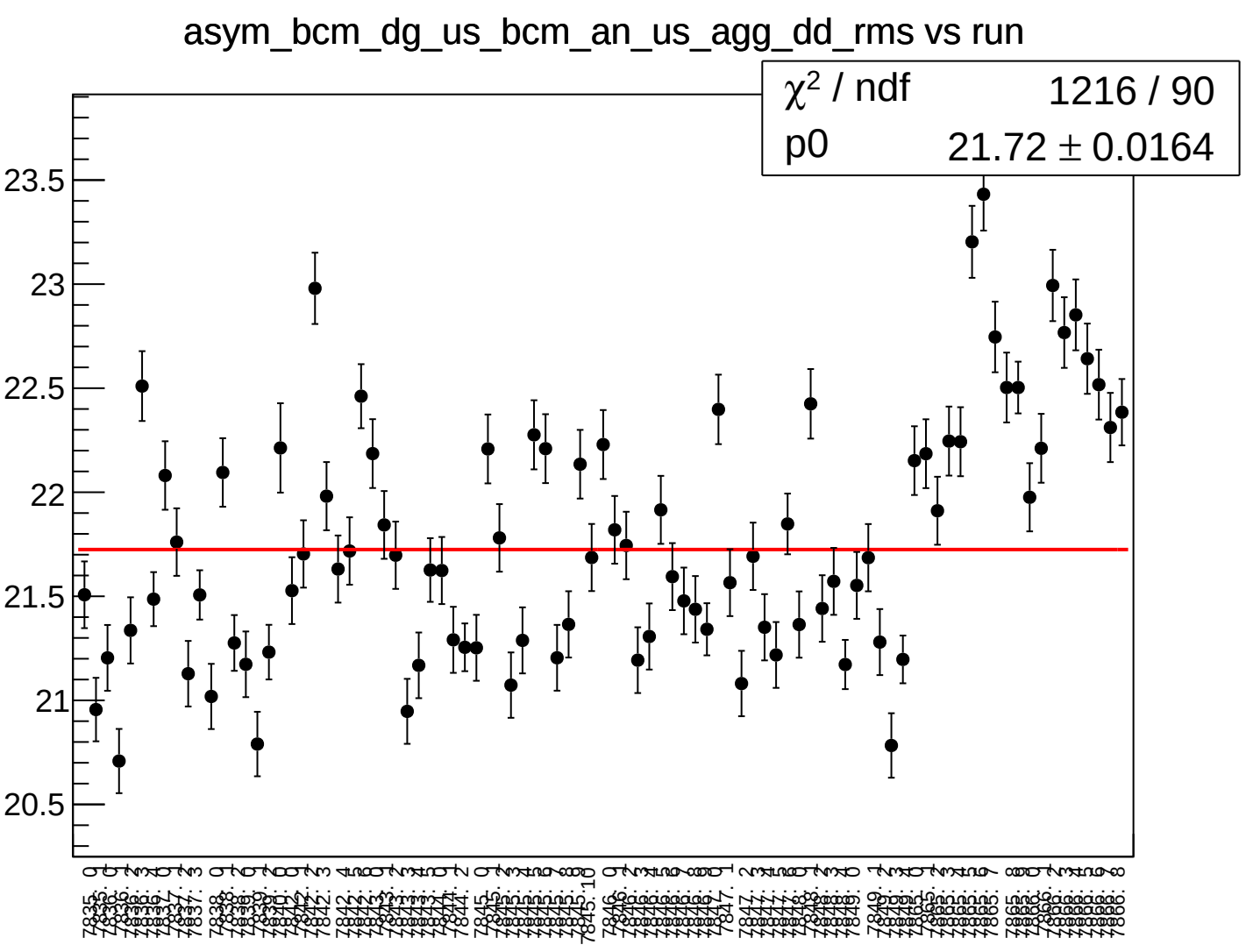

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2900 / 90
p0 16.59 ± 0.01253
19
18
17
16
15
14

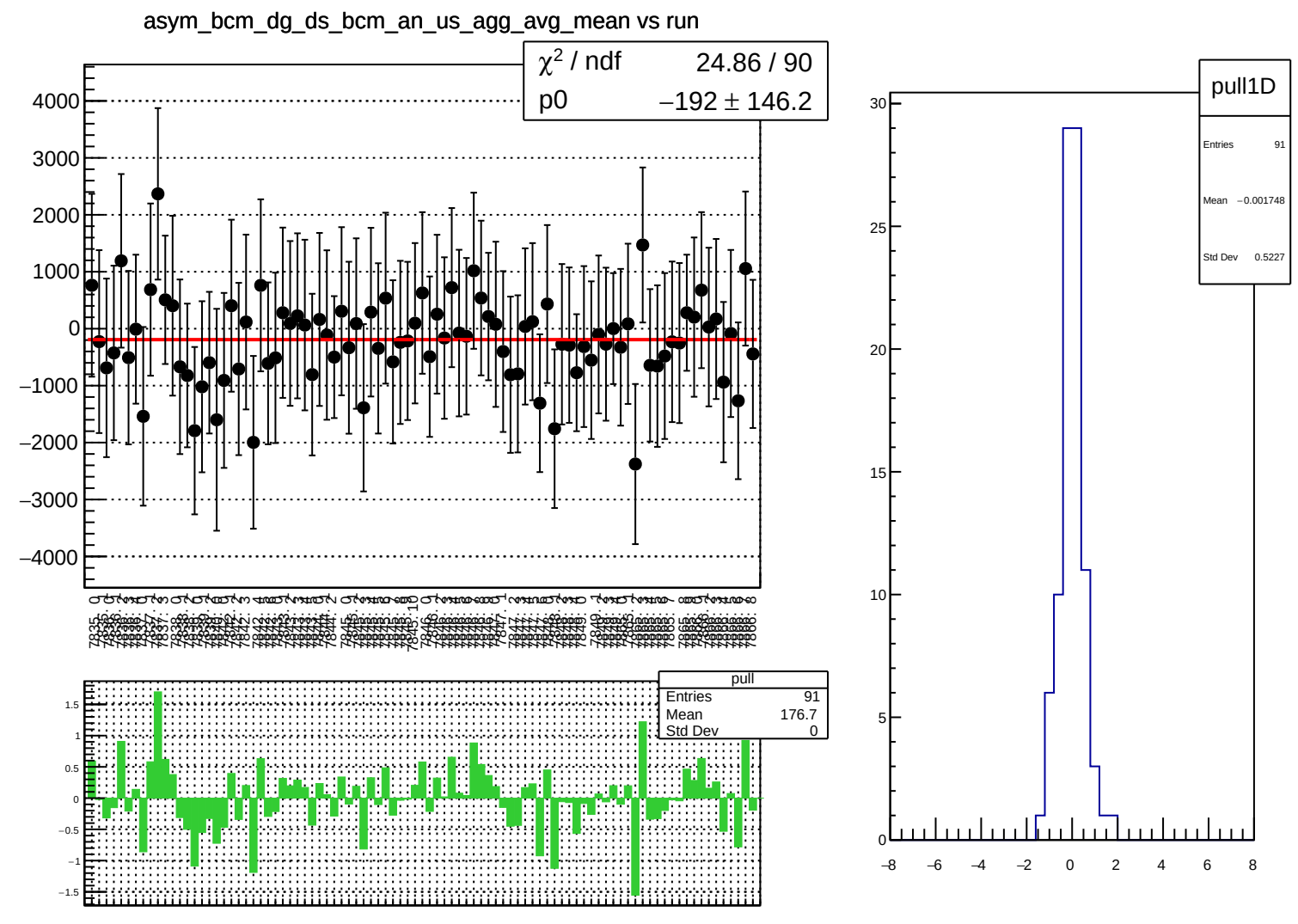

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 27.19 / 90
p0 −189.2 ± 146.2
pull
Entries 91
Mean −1525
Std Dev 0

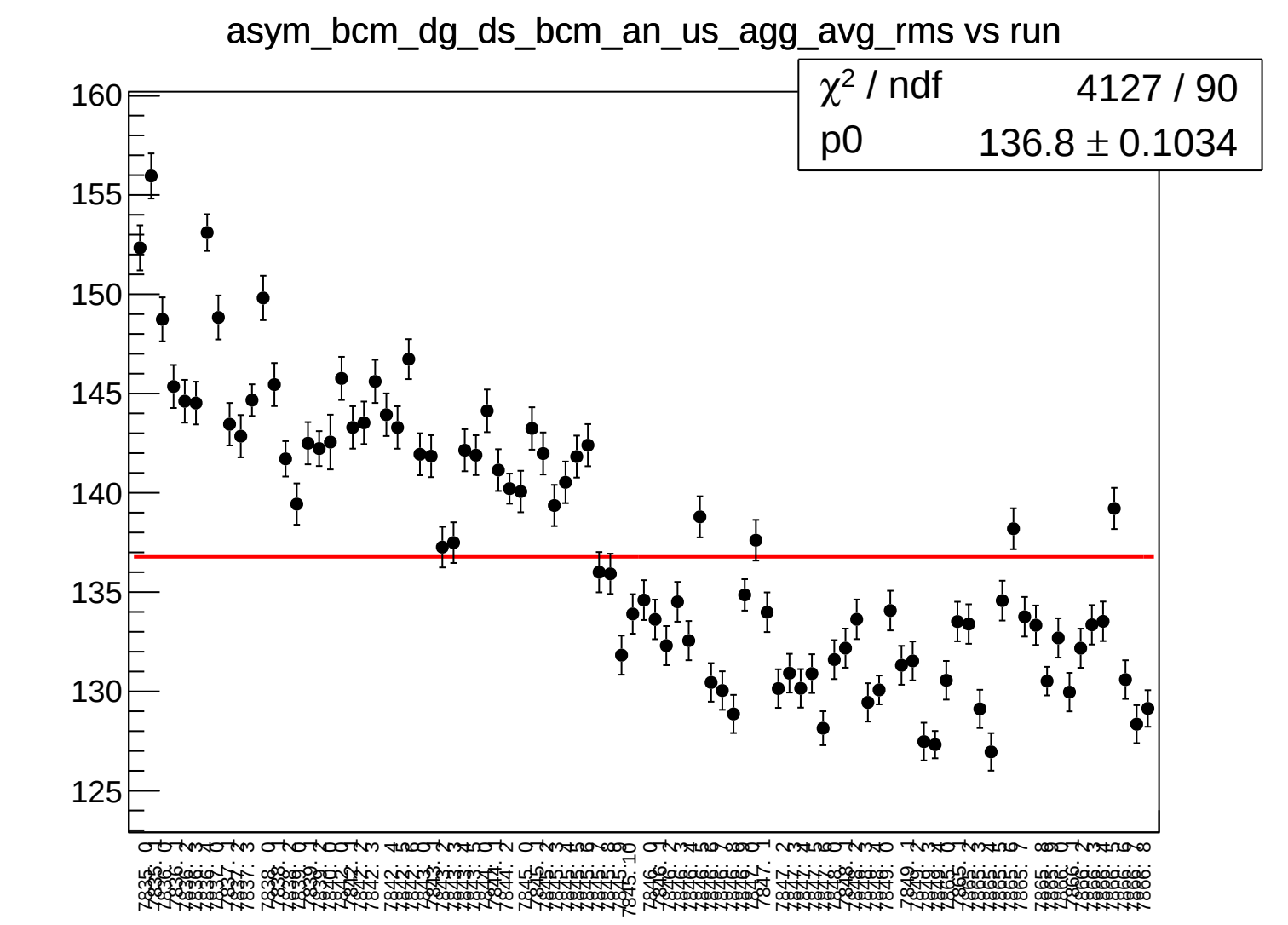

pull1D
Entries 91
Mean 0.0005263
Std Dev 0.5466

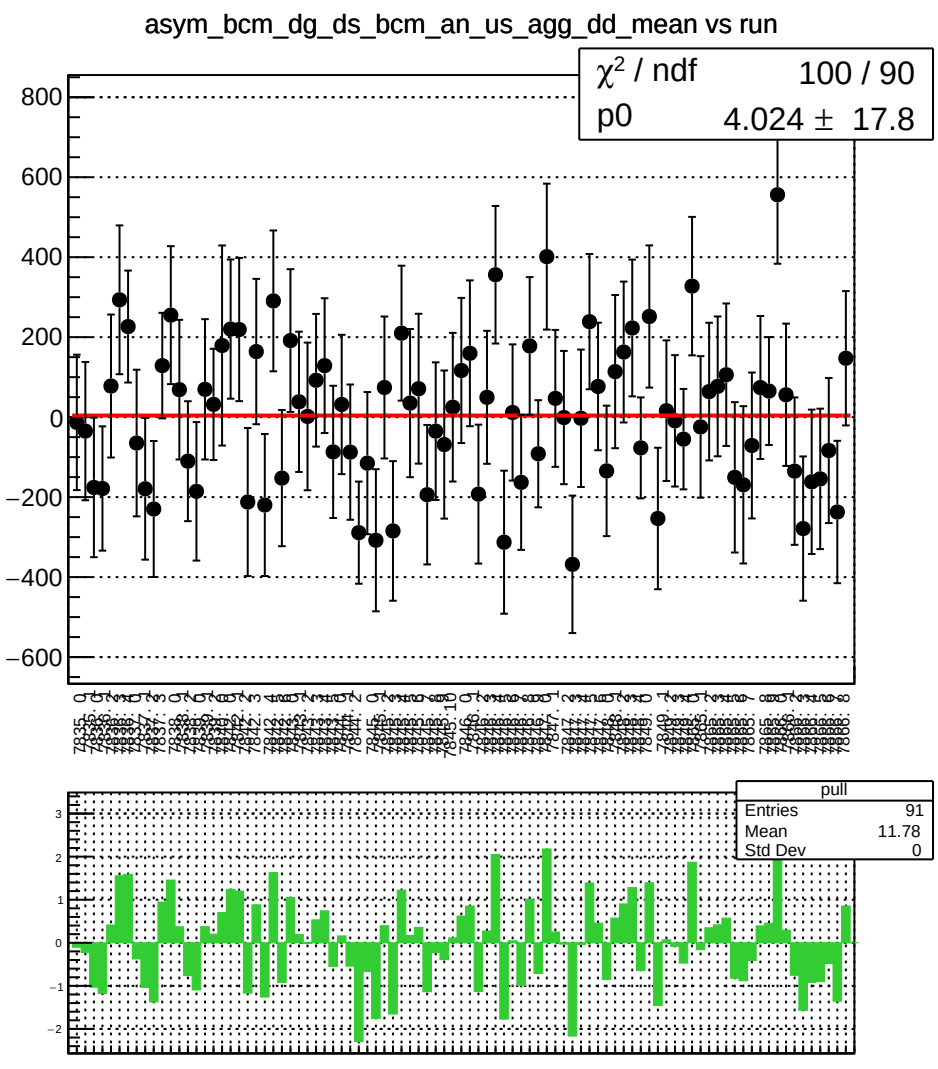

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4141 / 90
p0 136.8 ± 0.1034
160
155
150
145
140
135
130
125

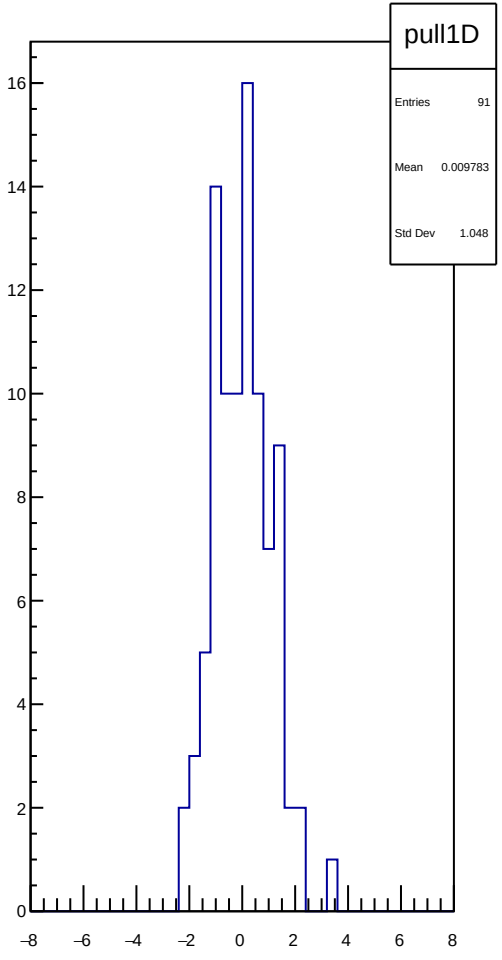

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 104 / 90
p0 11.29 ± 23.2
1000
500
0
−500
−1000
pull
Entries 91
Mean −284.4
Std Dev 0
pull1D
Entries 91
Mean 0.01221
Std Dev 1.069

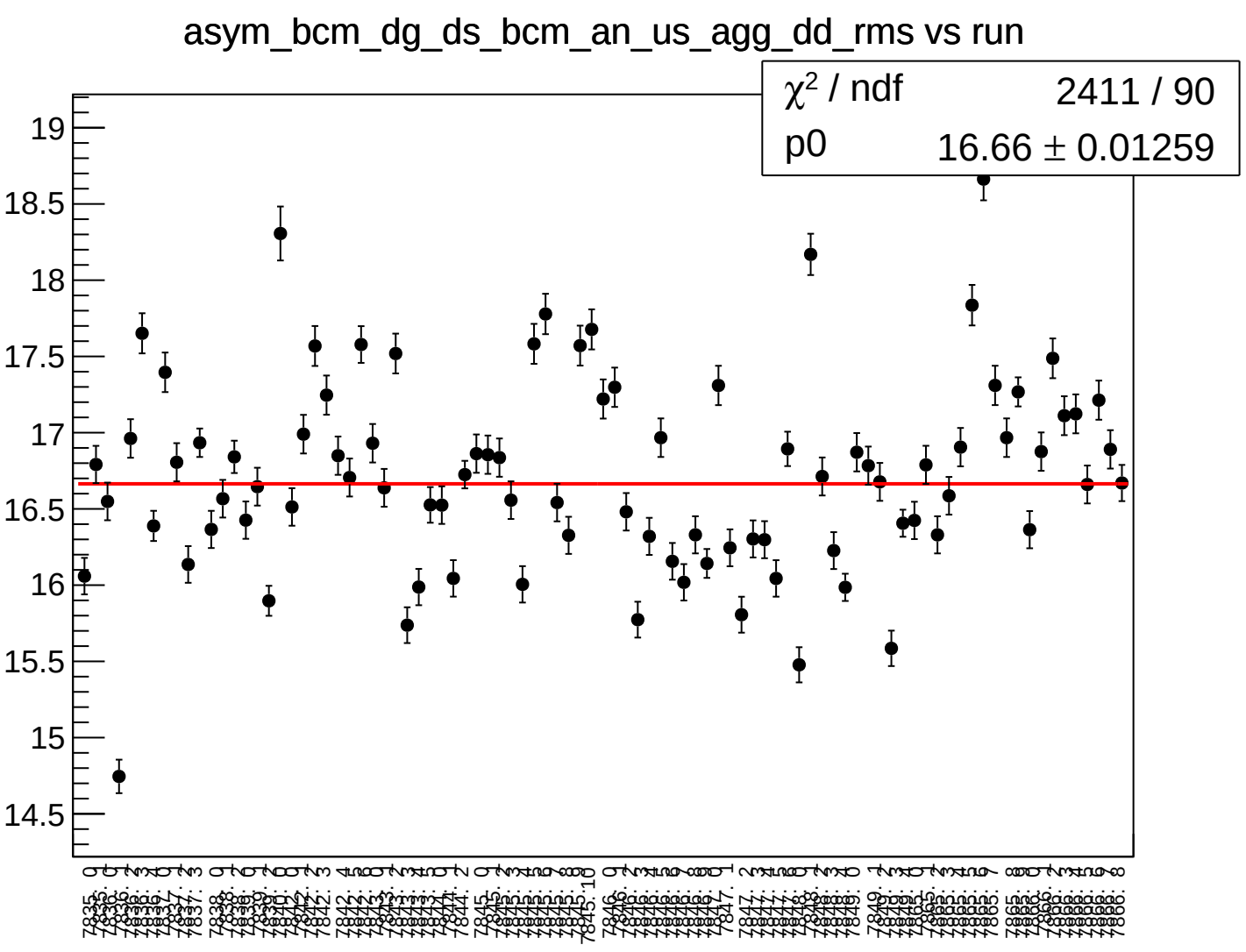

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1216 / 90
p0 21.72 ± 0.0164
23.5
23
22.5
22
21.5
21
20.5

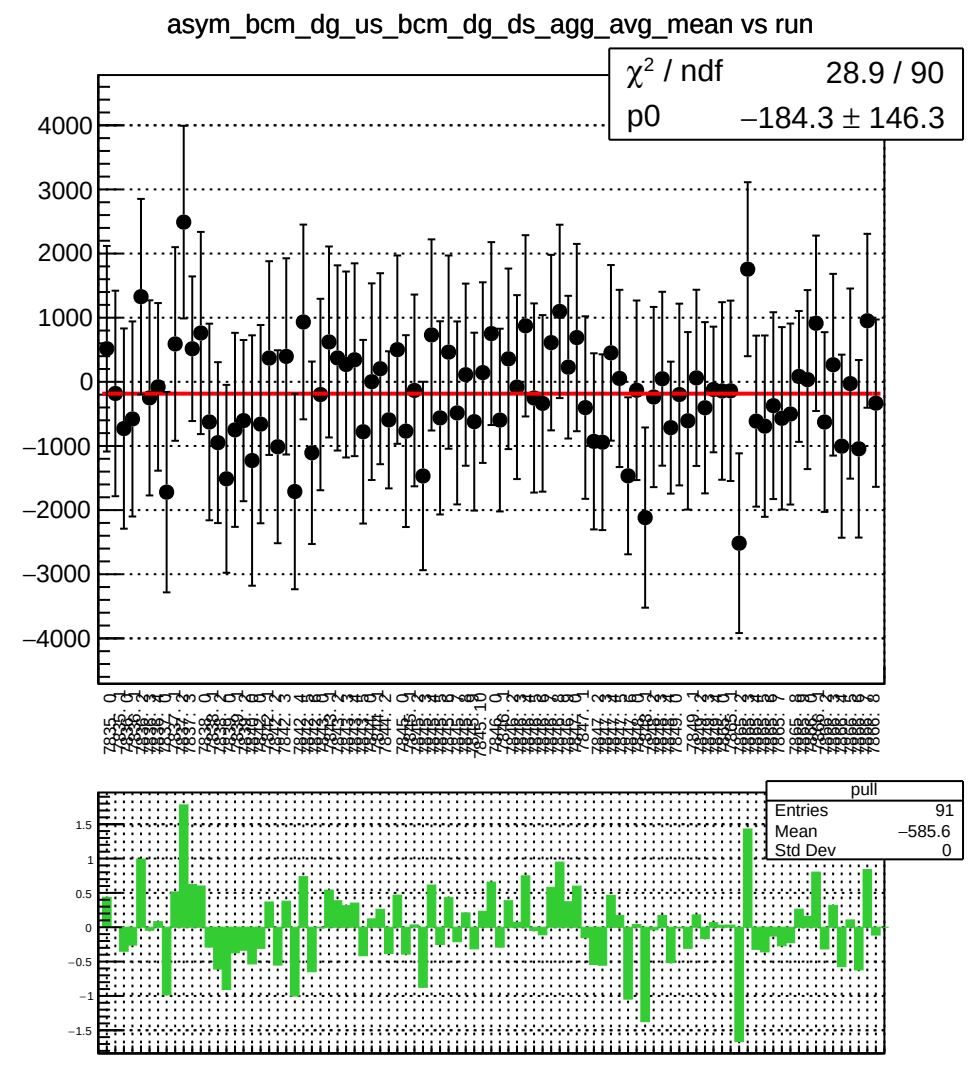

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.86 / 90
p0 −192 ± 146.2
pull
Entries 91
Mean 176.7
Std Dev 0
pull1D
Entries 91
Mean −0.001748
Std Dev 0.5227

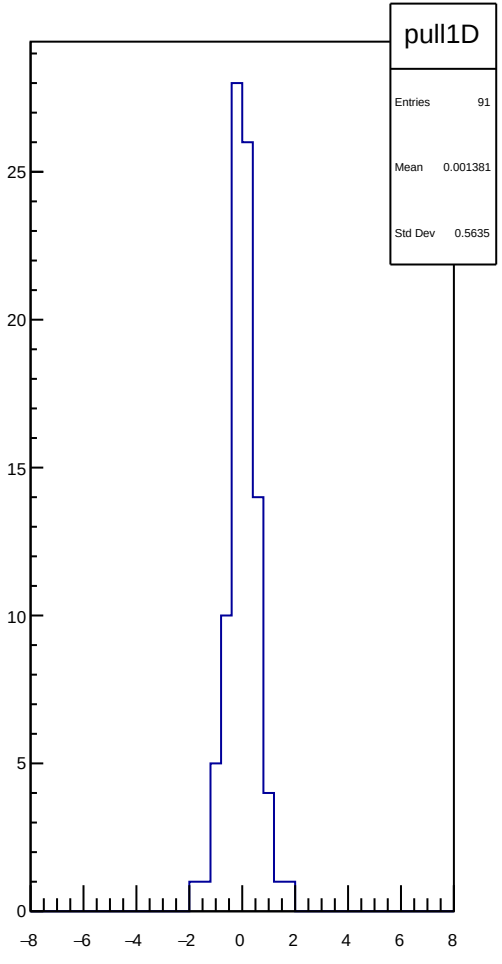

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4127 / 90
p0 136.8 ± 0.1034
160
155
150
145
140
135
130
125

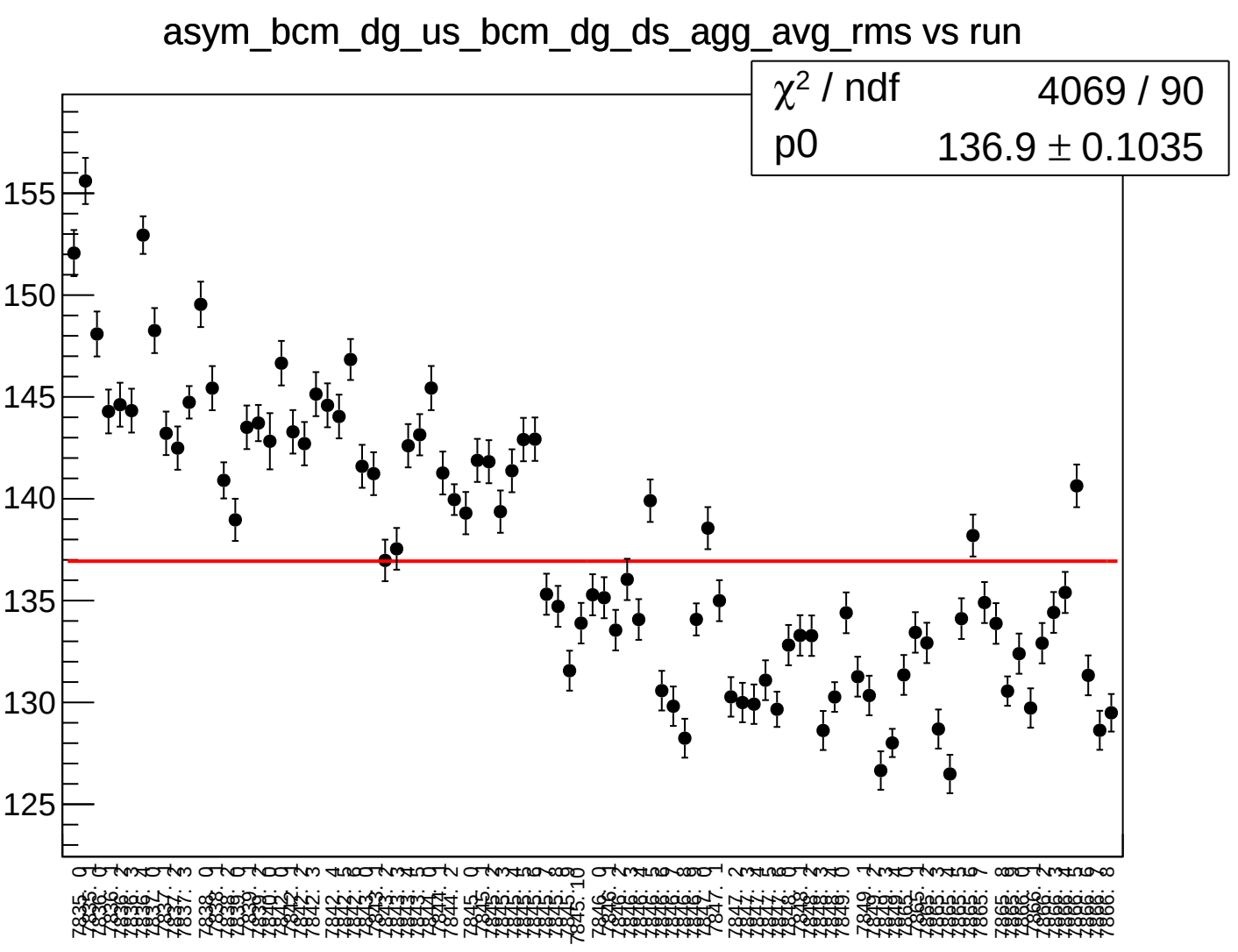

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 100 / 90
p0 4.024 ± 17.8
pull
Entries 91
Mean 11.78
Std Dev 0

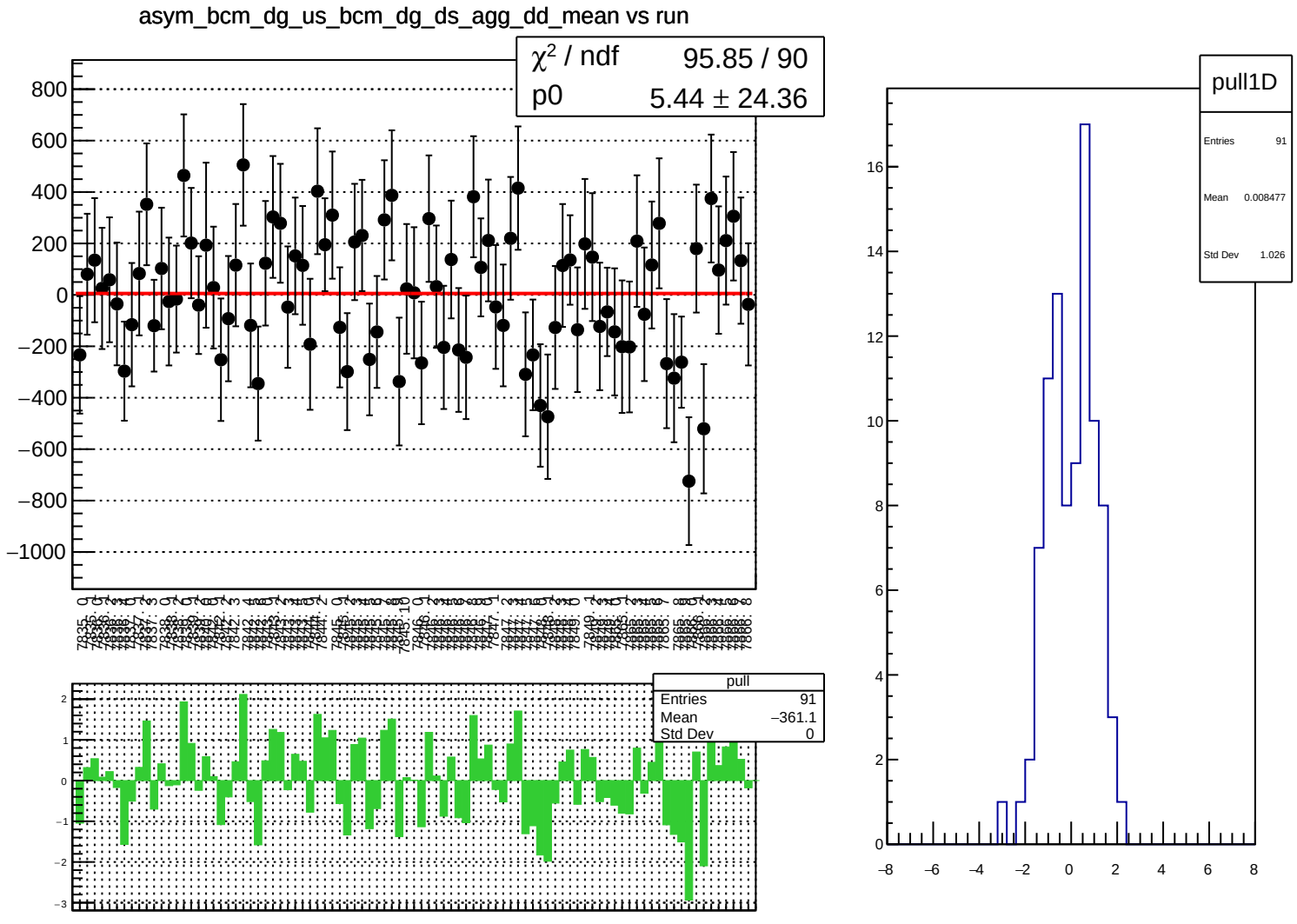

pull1D
Entries 91
Mean 0.009783
Std Dev 1.048

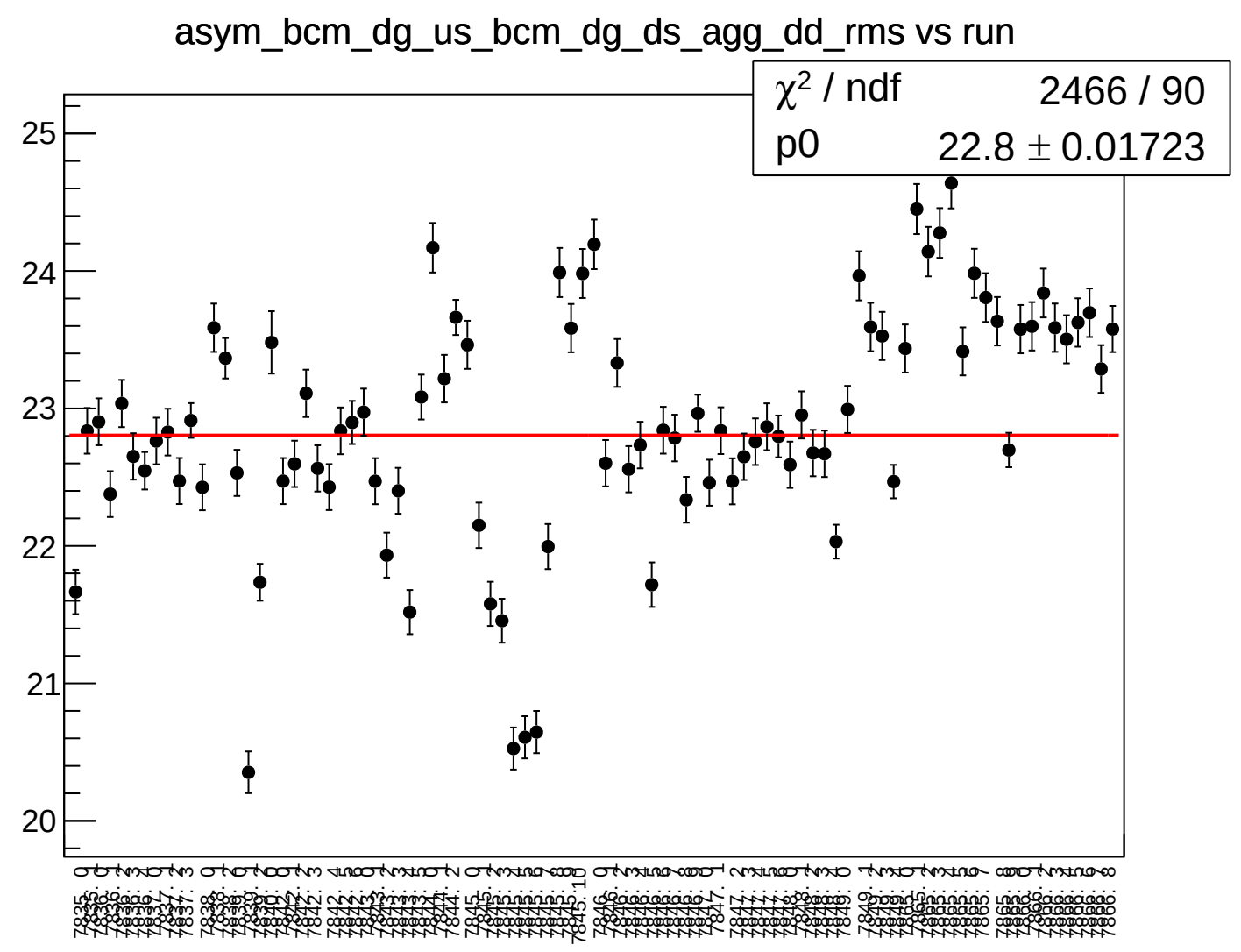

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2411 / 90
p0 16.66 ± 0.01259
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

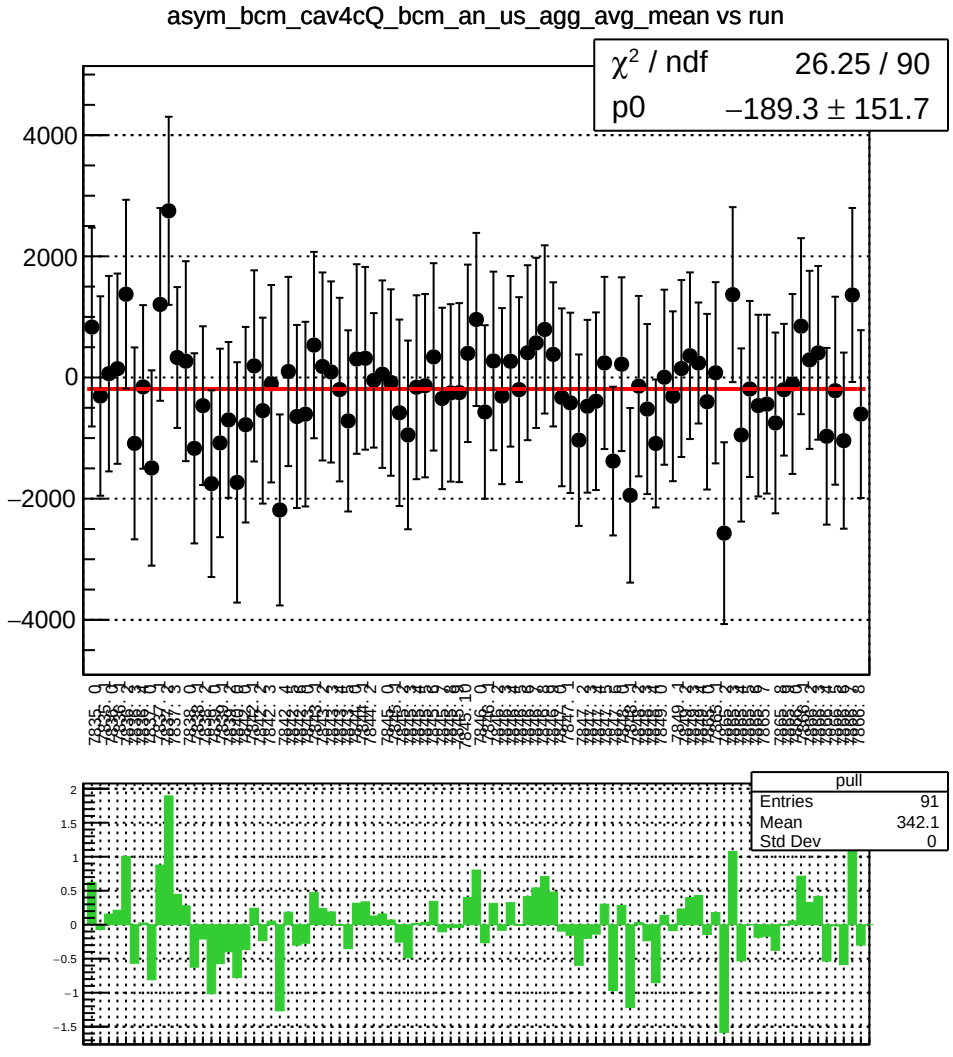

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 28.9 / 90
p0 −184.3 ± 146.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean −585.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

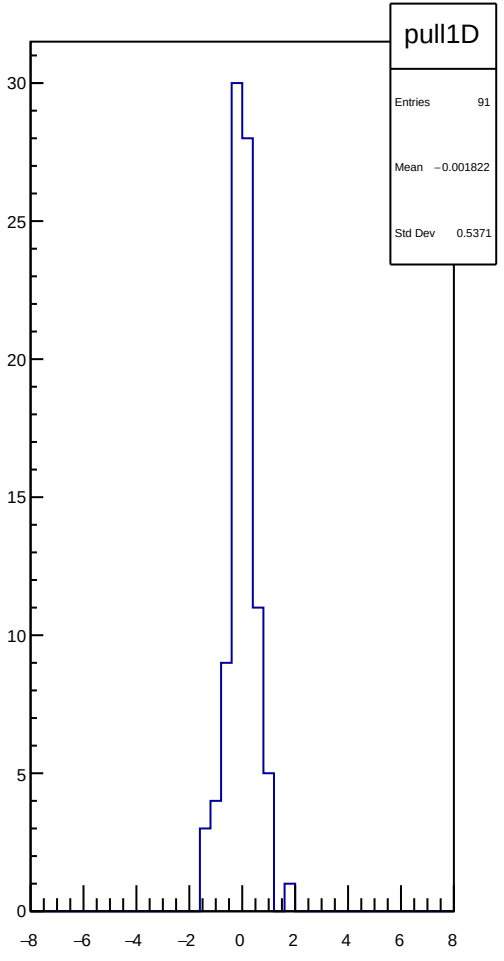

pull1D
Entries 91
Mean 0.001381
Std Dev 0.5635
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

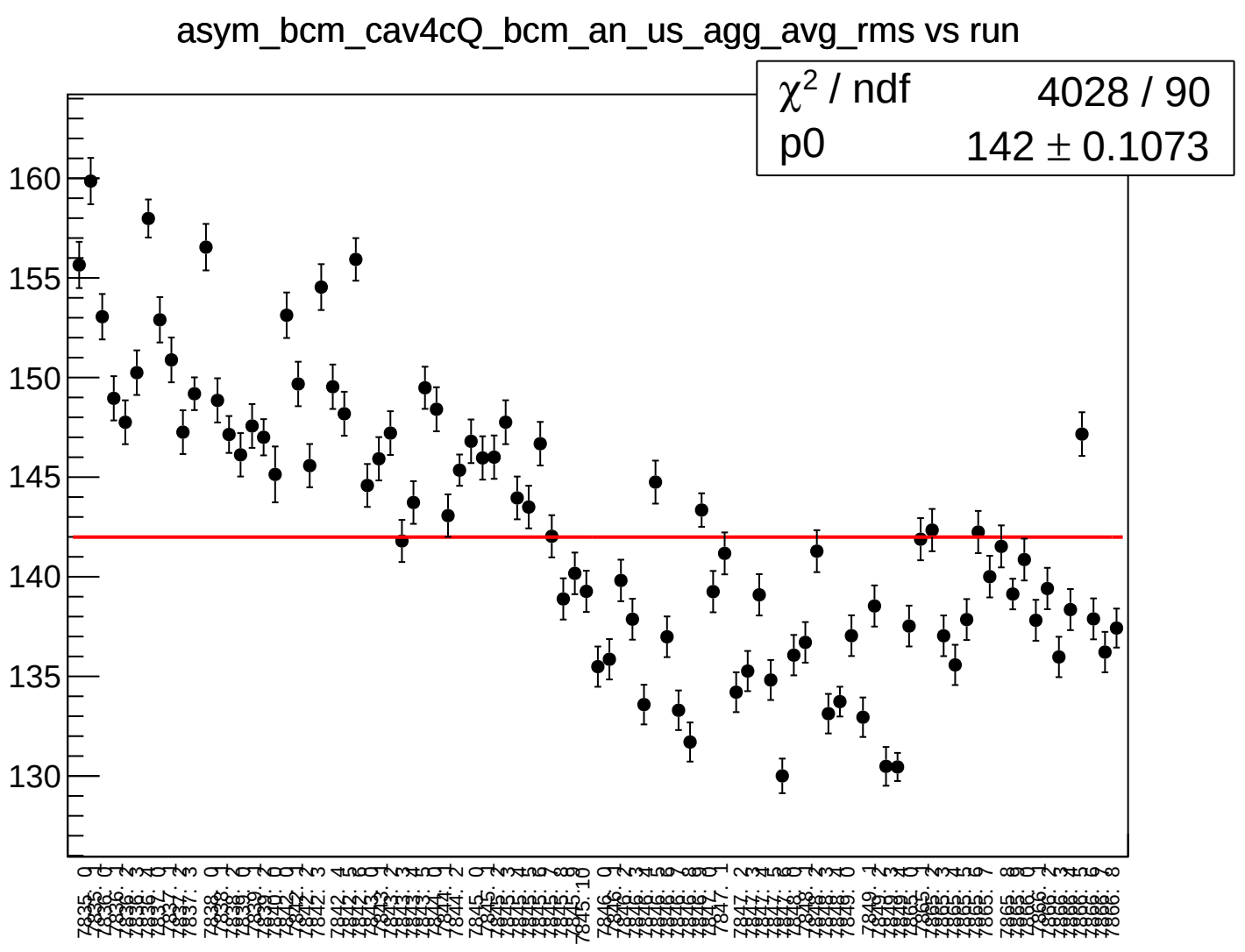

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4069 / 90
p0 136.9 ± 0.1035
155
150
145
140
135
130
125

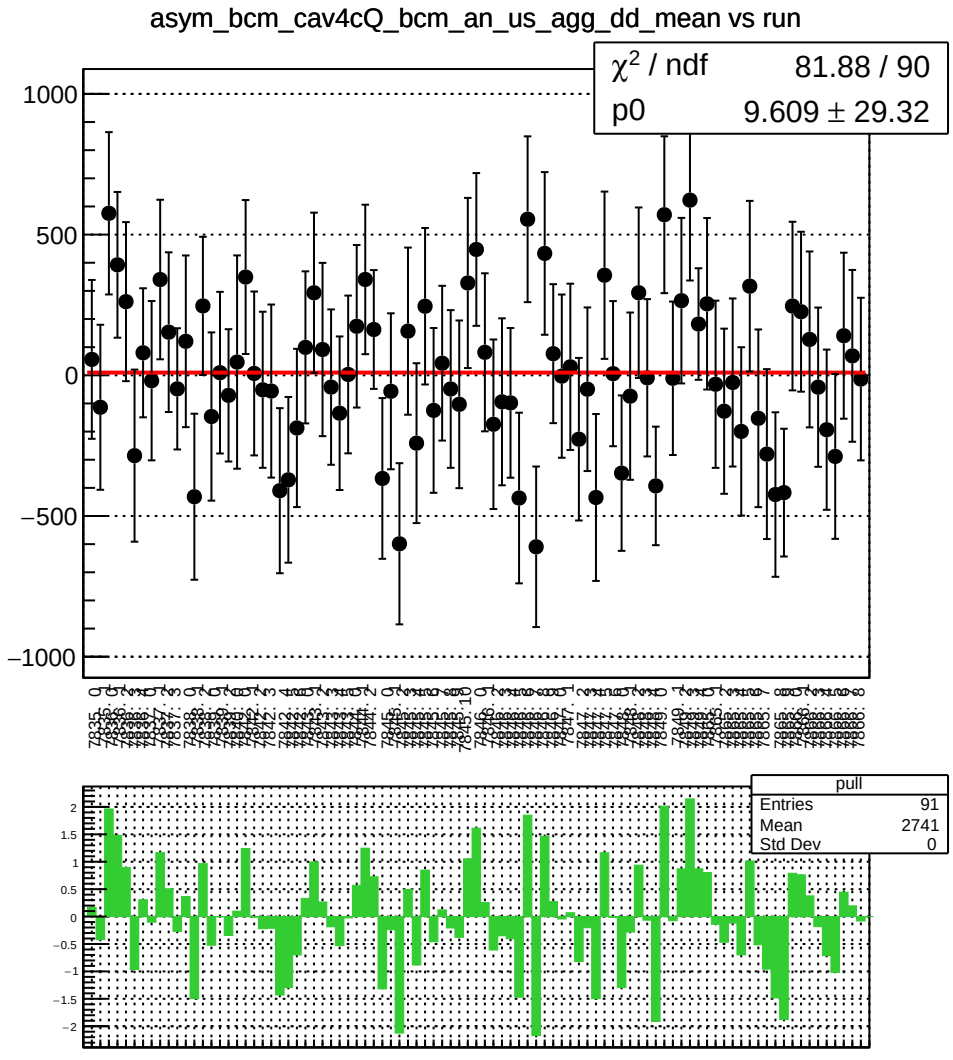

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 95.85 / 90
p0 5.44 ± 24.36
pull
Entries 91
Mean −361.1
Std Dev 0
pull1D
Entries 91
Mean 0.008477
Std Dev 1.026

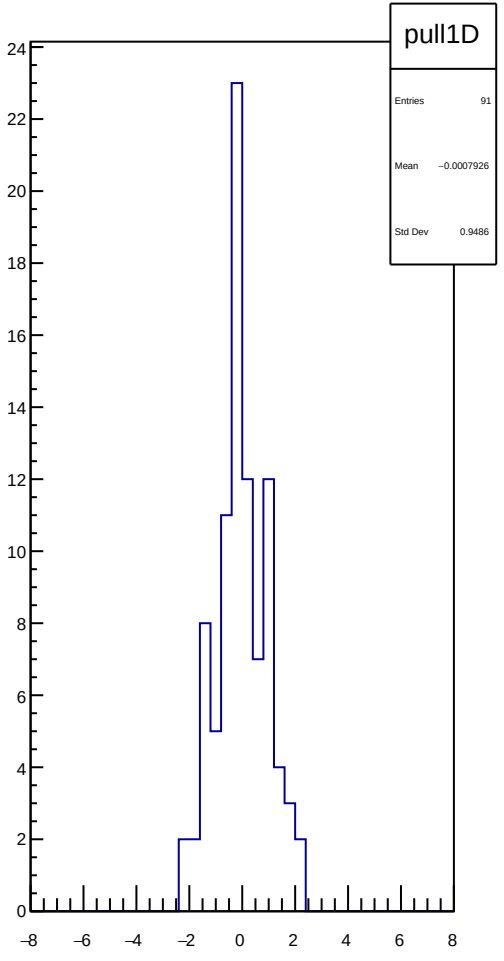

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2466 / 90
p0 22.8 ± 0.01723
25
24
23
22
21
20

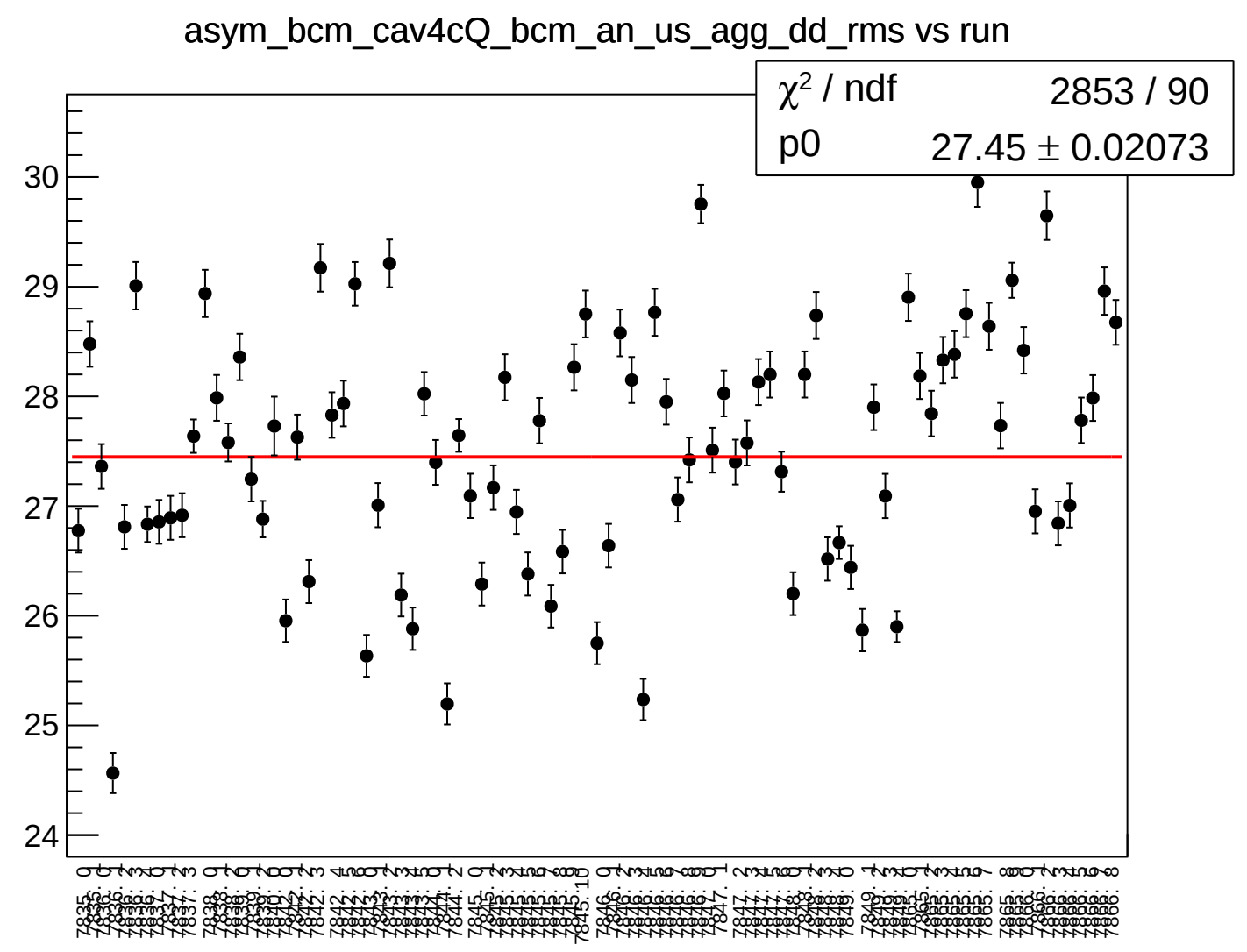

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.25 / 90
p0 −189.3 ± 151.7
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 342.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

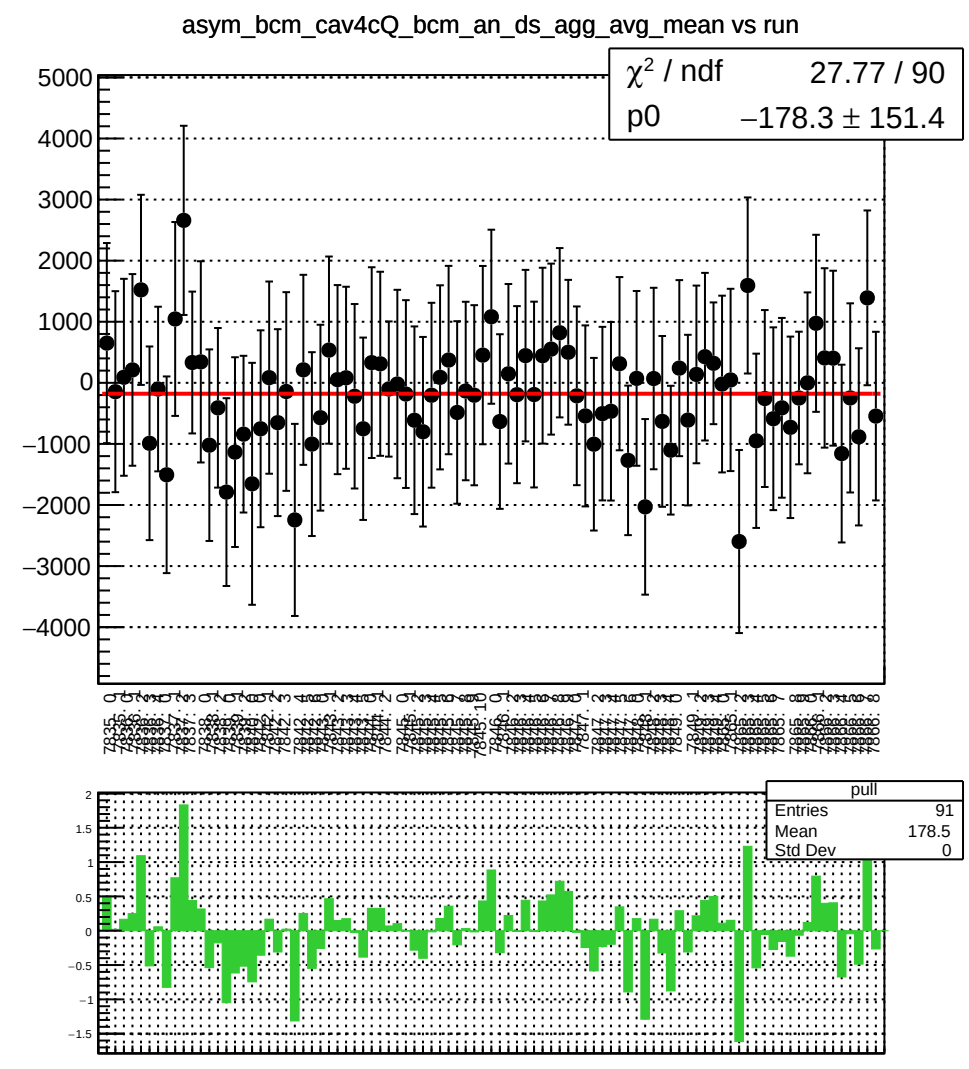

pull1D
Entries 91
Mean −0.001822
Std Dev 0.5371
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

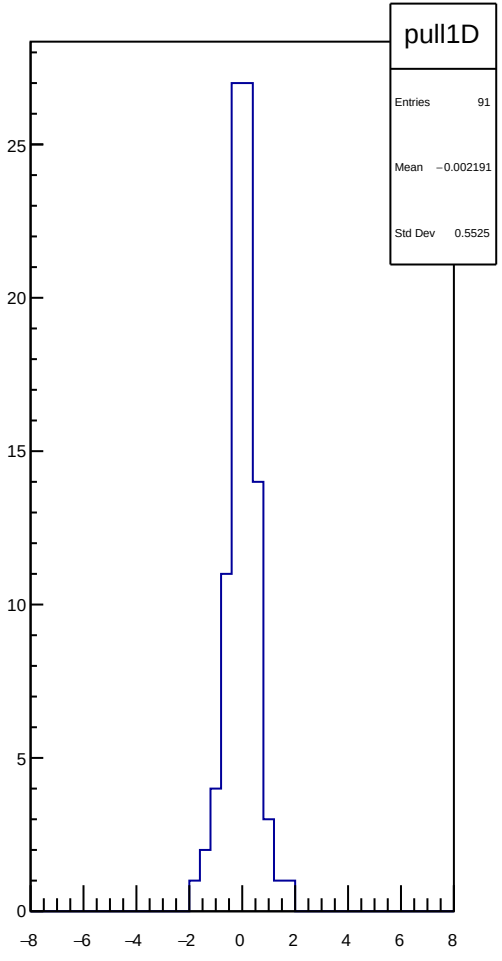

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4028 / 90
p0 142 ± 0.1073
160
155
150
145
140
135
130

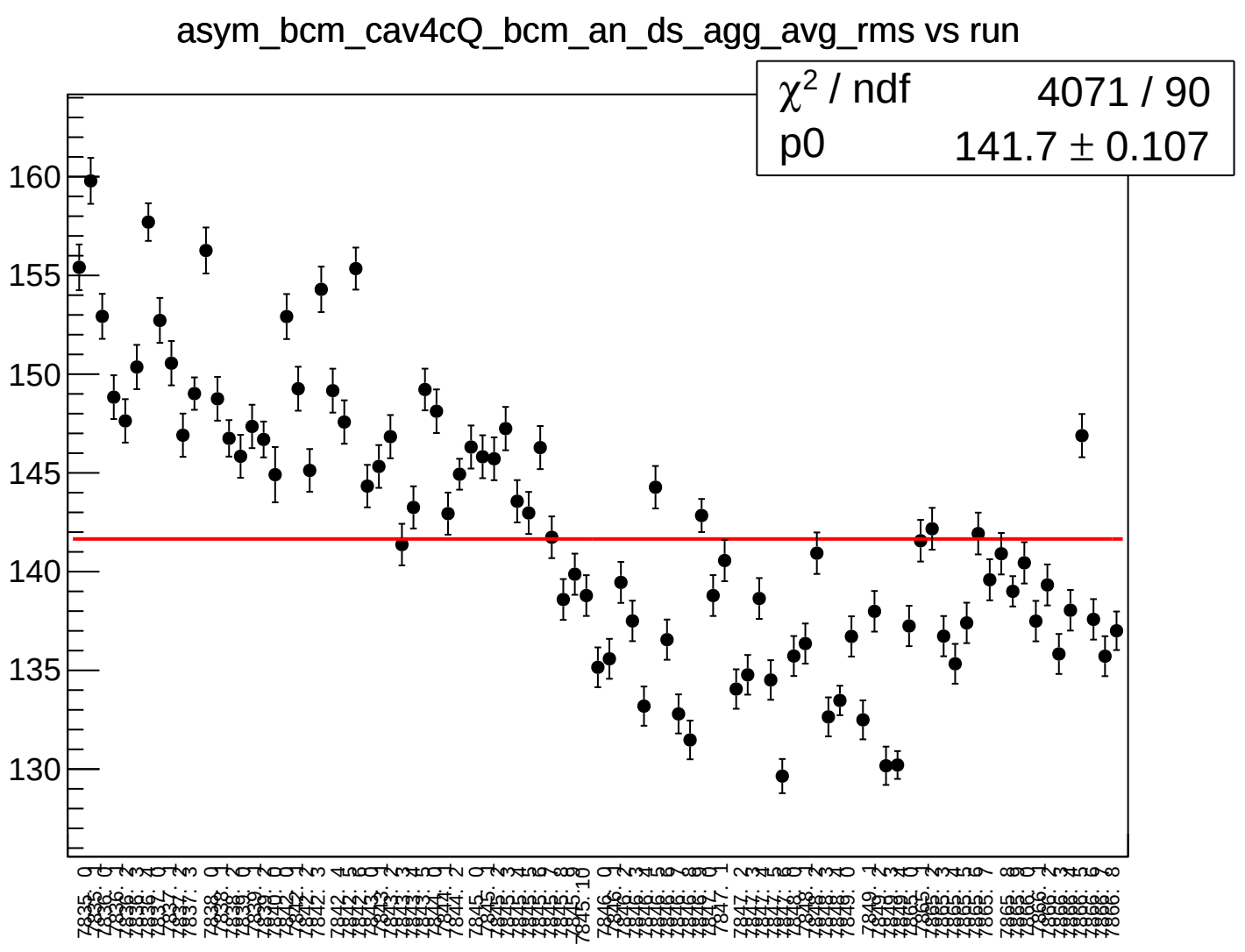

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 81.88 / 90
p0 9.609 ± 29.32
1000
500
0
−500
−1000
pull
Entries 91
Mean 2741
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

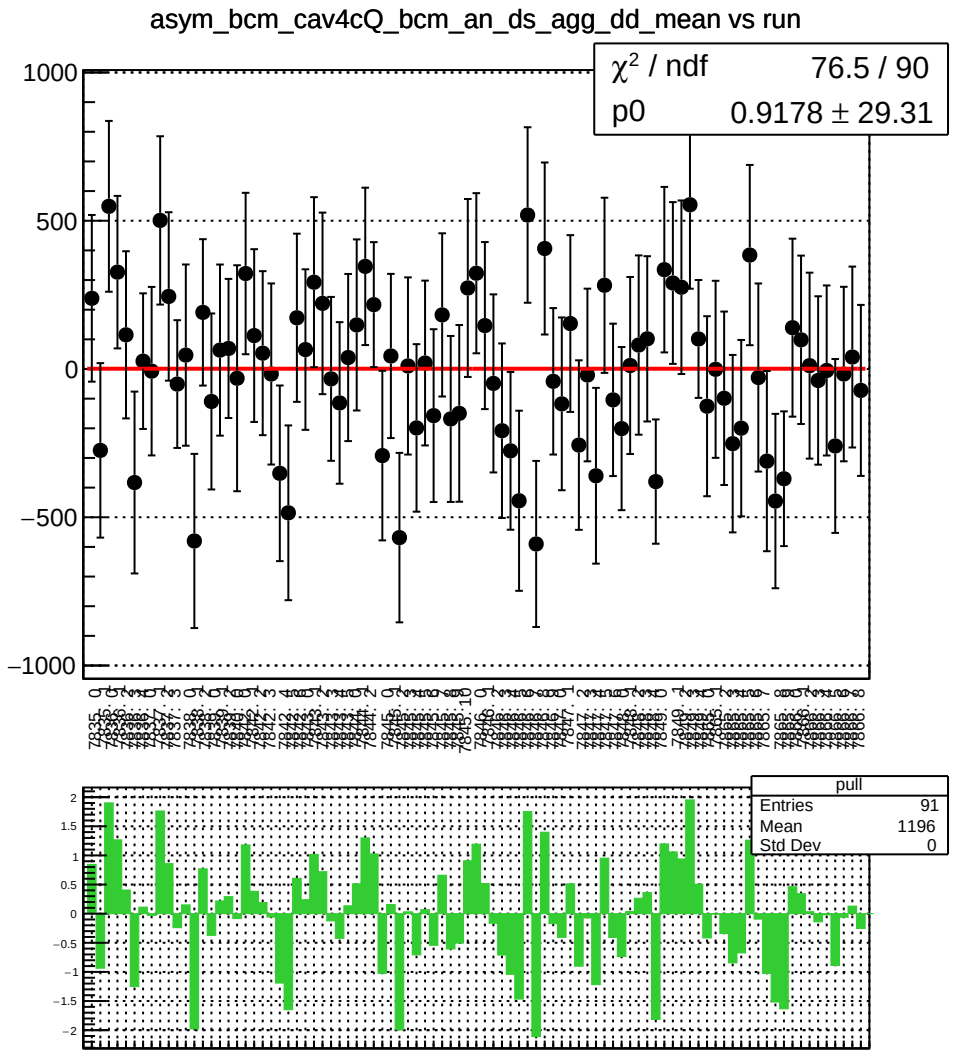

pull1D
Entries 91
Mean −0.0007926
Std Dev 0.9486
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

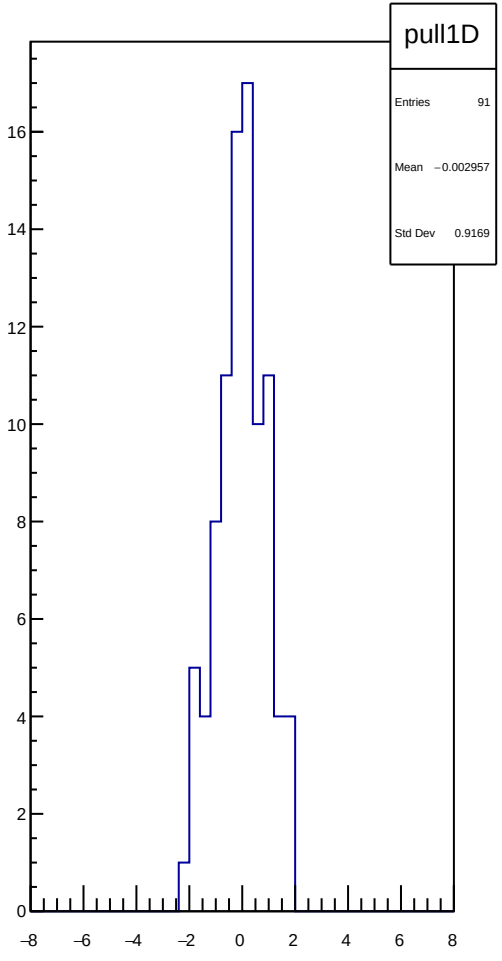

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2853 / 90
p0 27.45 ± 0.02073
30
29
28
27
26
25
24

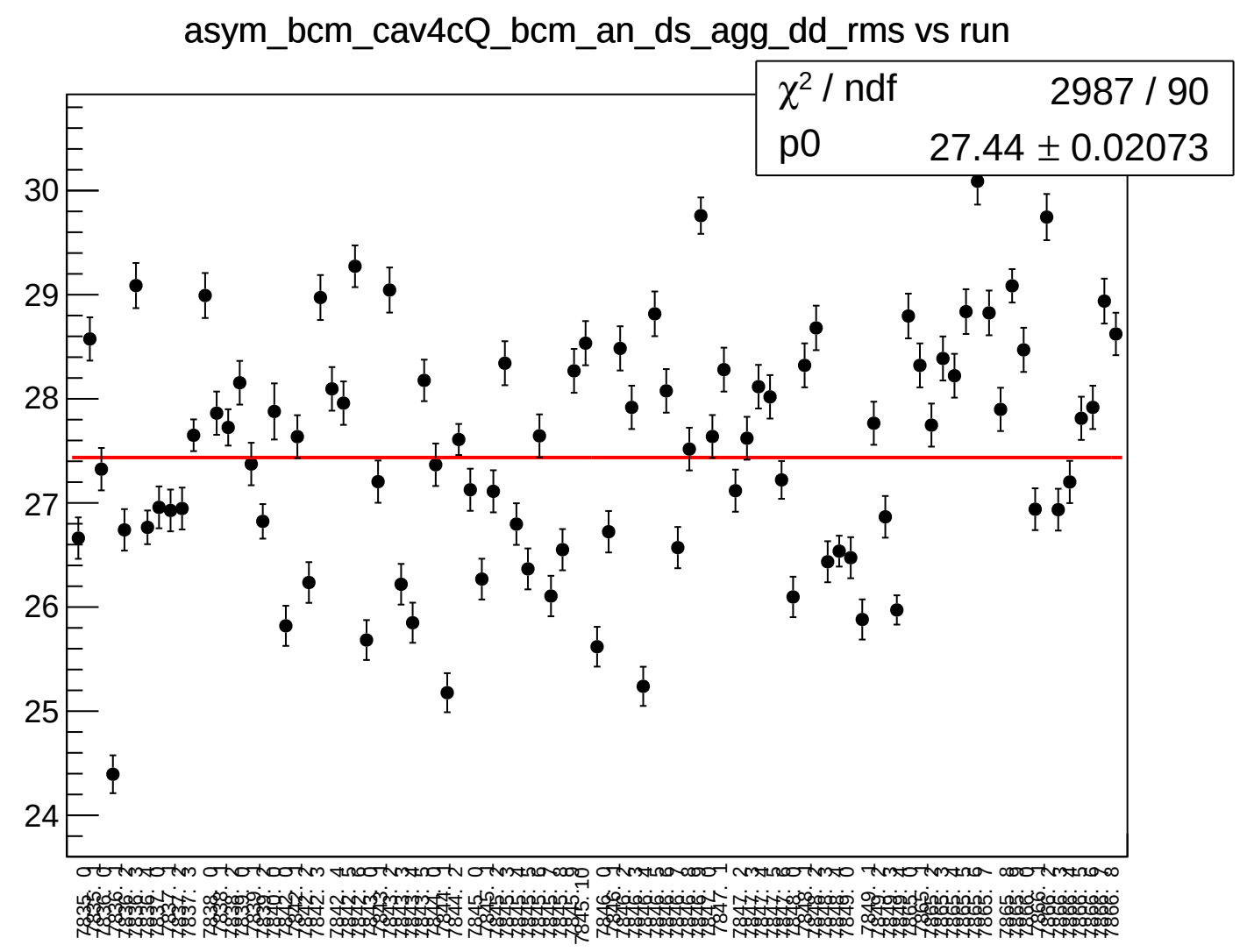

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.77 / 90
p0 −178.3 ± 151.4
pull
Entries 91
Mean 178.5
Std Dev 0

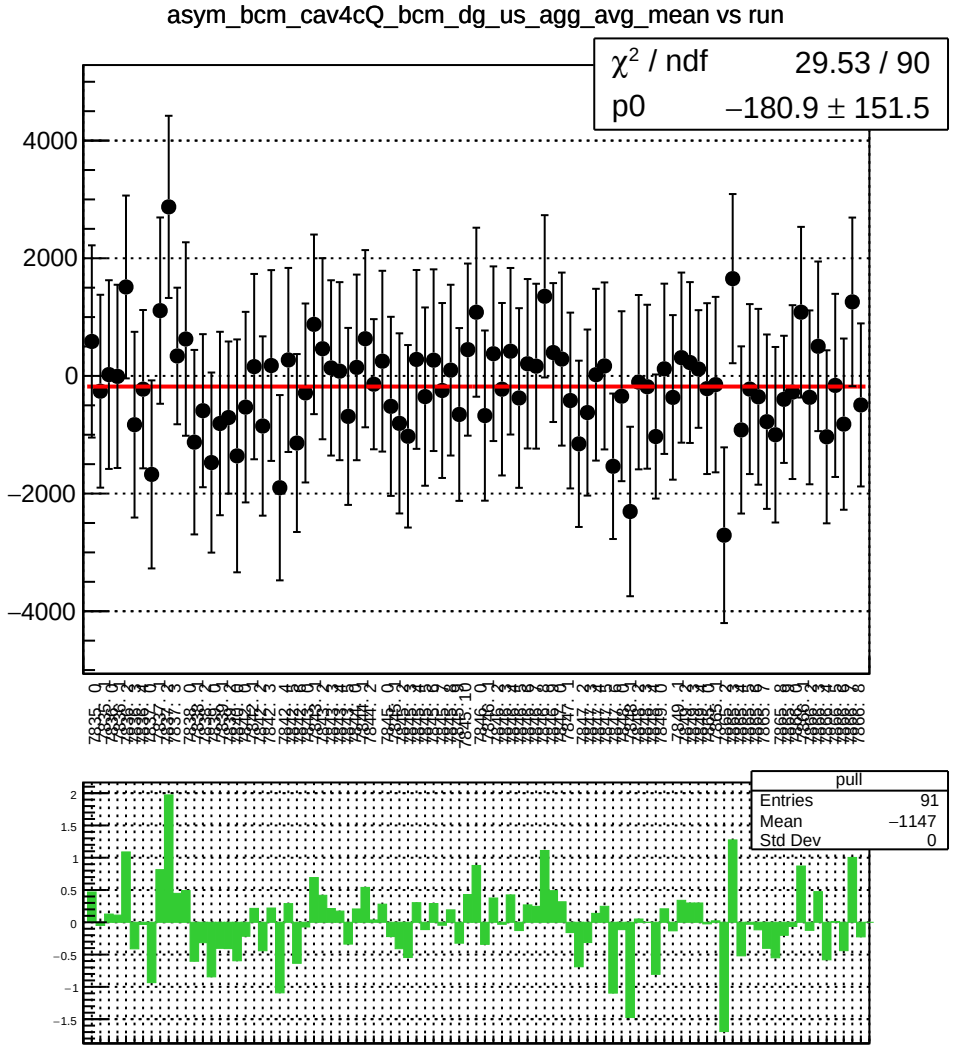

pull1D
Entries 91
Mean −0.002191
Std Dev 0.5525

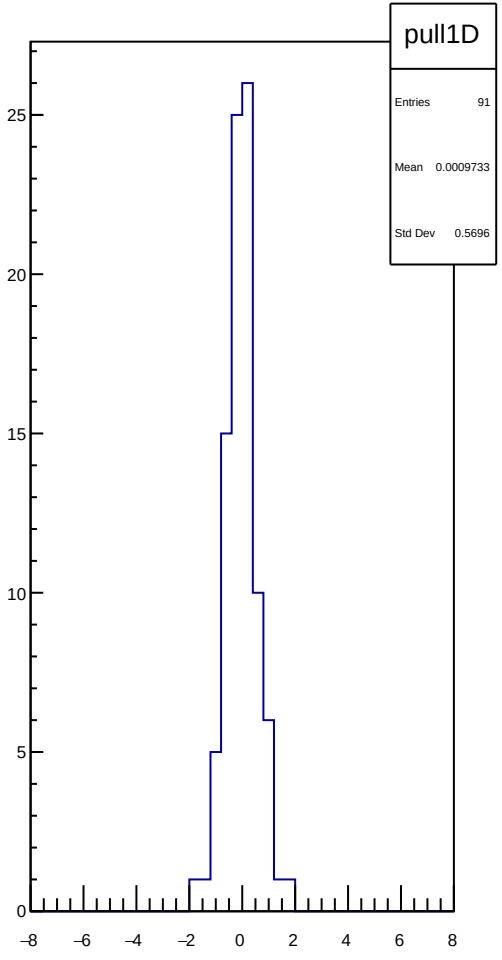

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4071 / 90
p0 141.7 ± 0.107
160
155
150
145
140
135
130

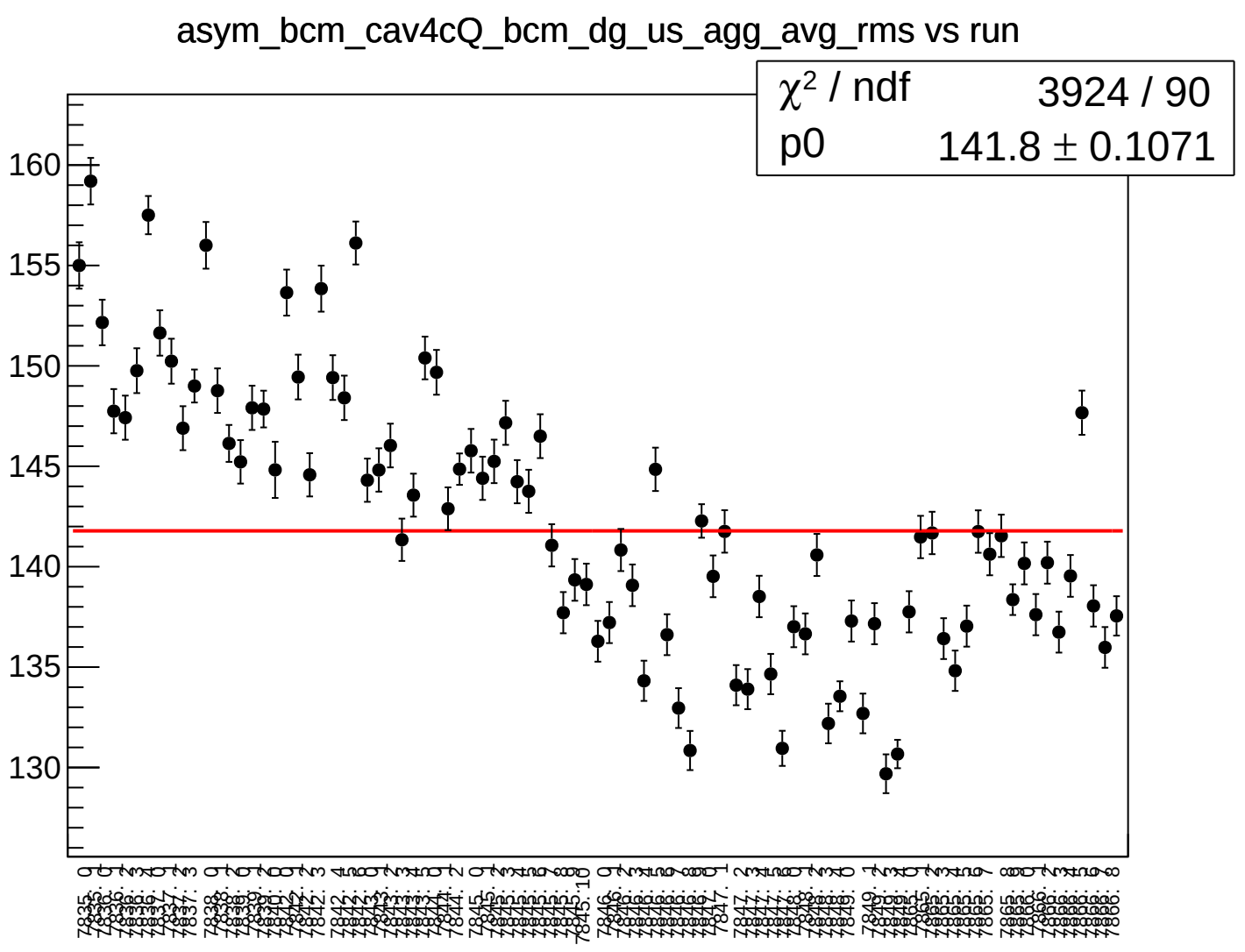

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 76.5 / 90
p0 0.9178 ± 29.31
pull
Entries 91
Mean 1196
Std Dev 0

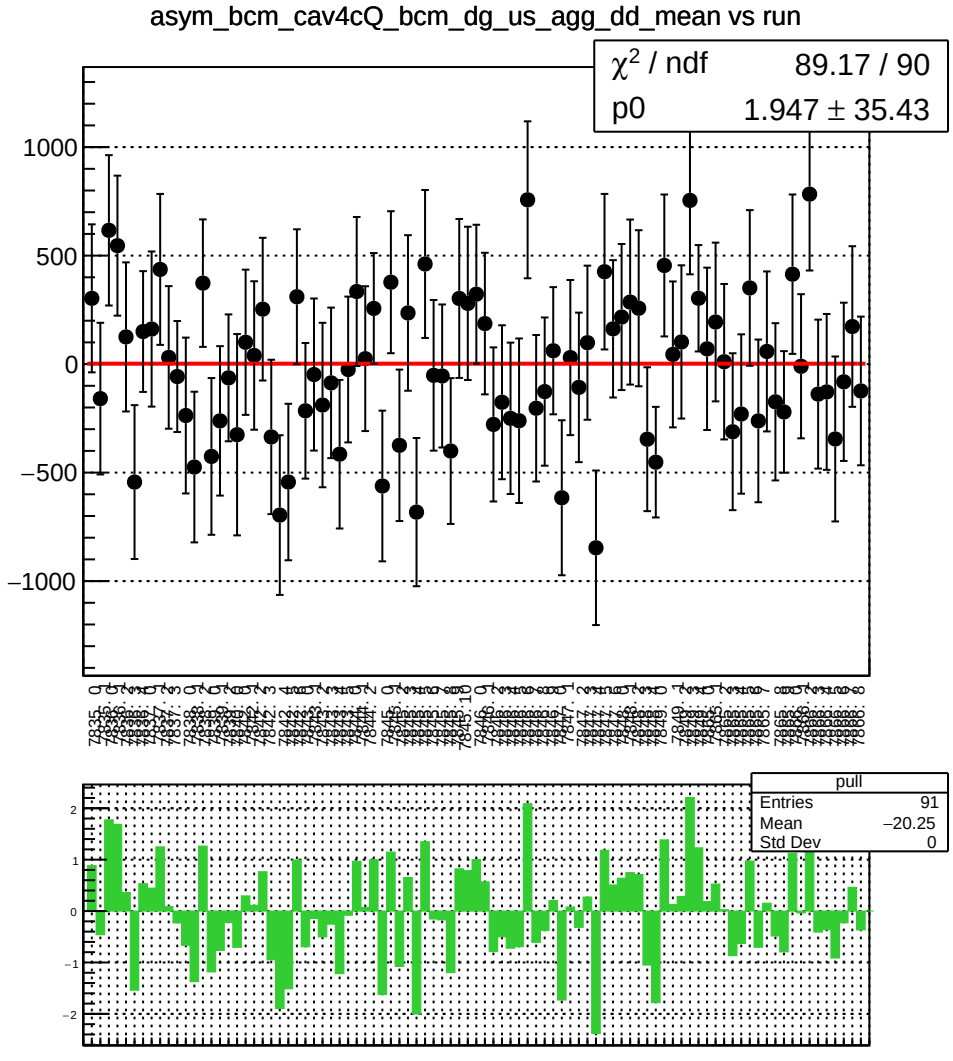

pull1D
Entries 91
Mean −0.002957
Std Dev 0.9169

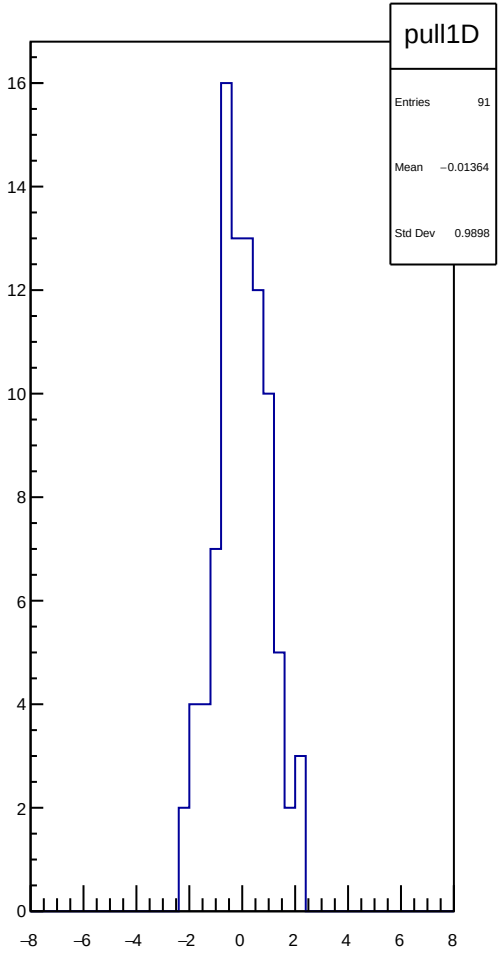

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2987 / 90
p0 27.44 ± 0.02073
30
29
28
27
26
25
24

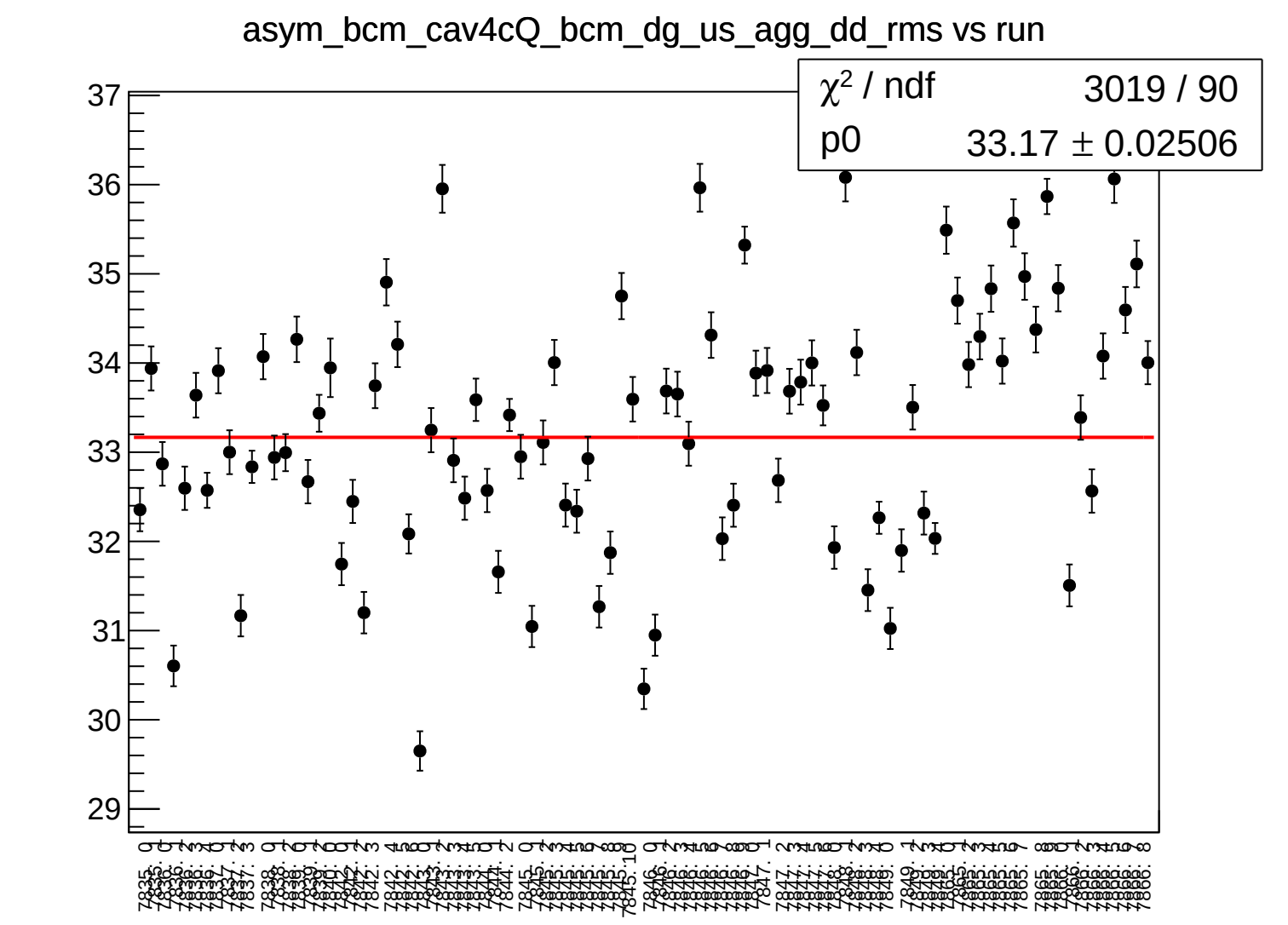

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 29.53 / 90
p0 −180.9 ± 151.5
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −1147
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

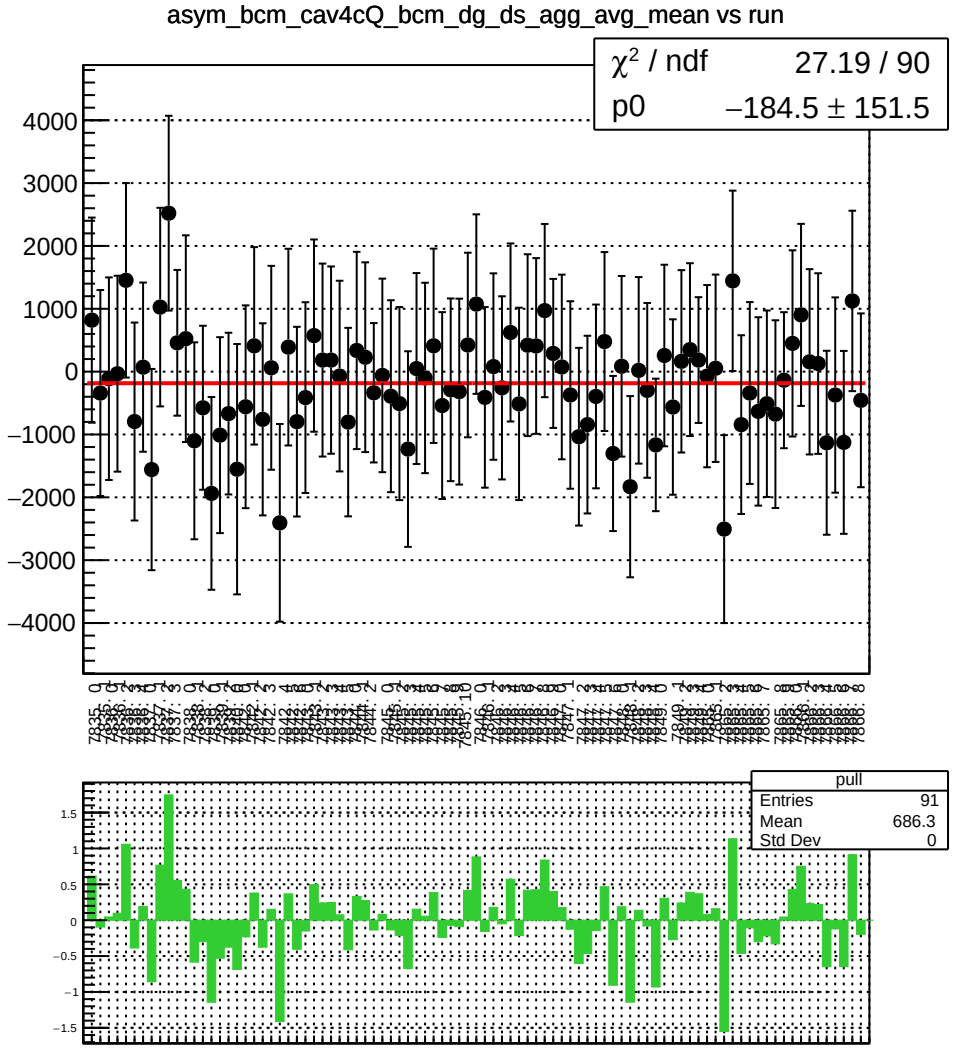

pull1D
Entries 91
Mean 0.0009733
Std Dev 0.5696
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

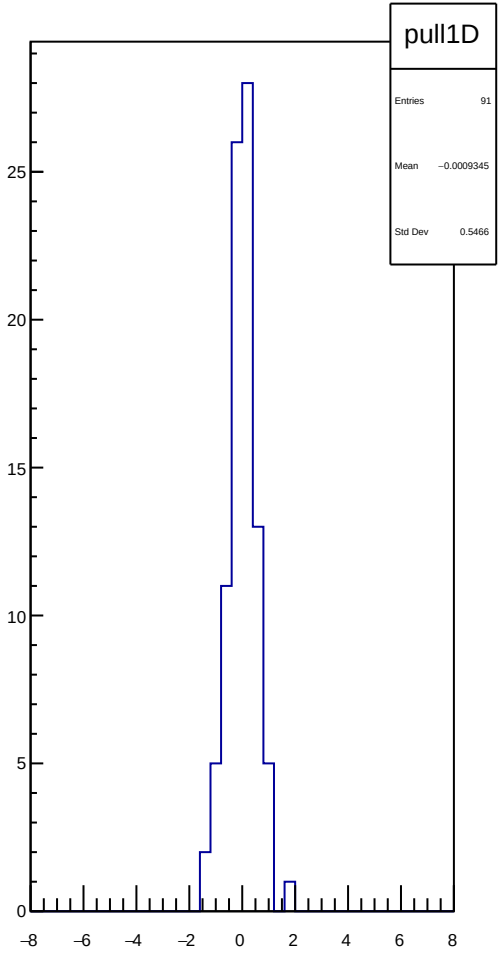

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3924 / 90
p0 141.8 ± 0.1071
160
155
150
145
140
135
130

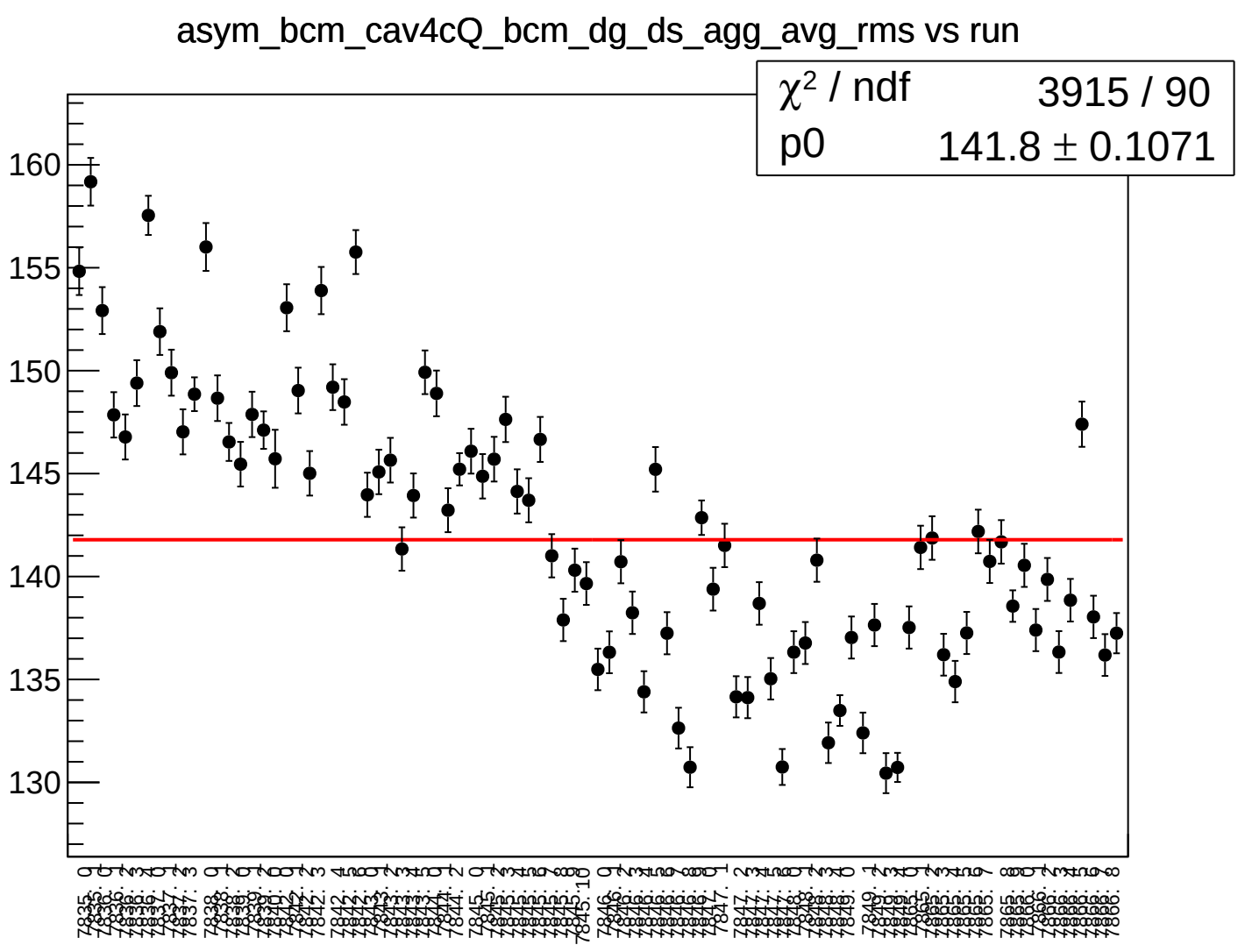

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 89.17 / 90
p0 1.947 ± 35.43
1000
500
0
−500
−1000
pull
Entries 91
Mean −20.25
Std Dev 0
2
1
0
−1
−2

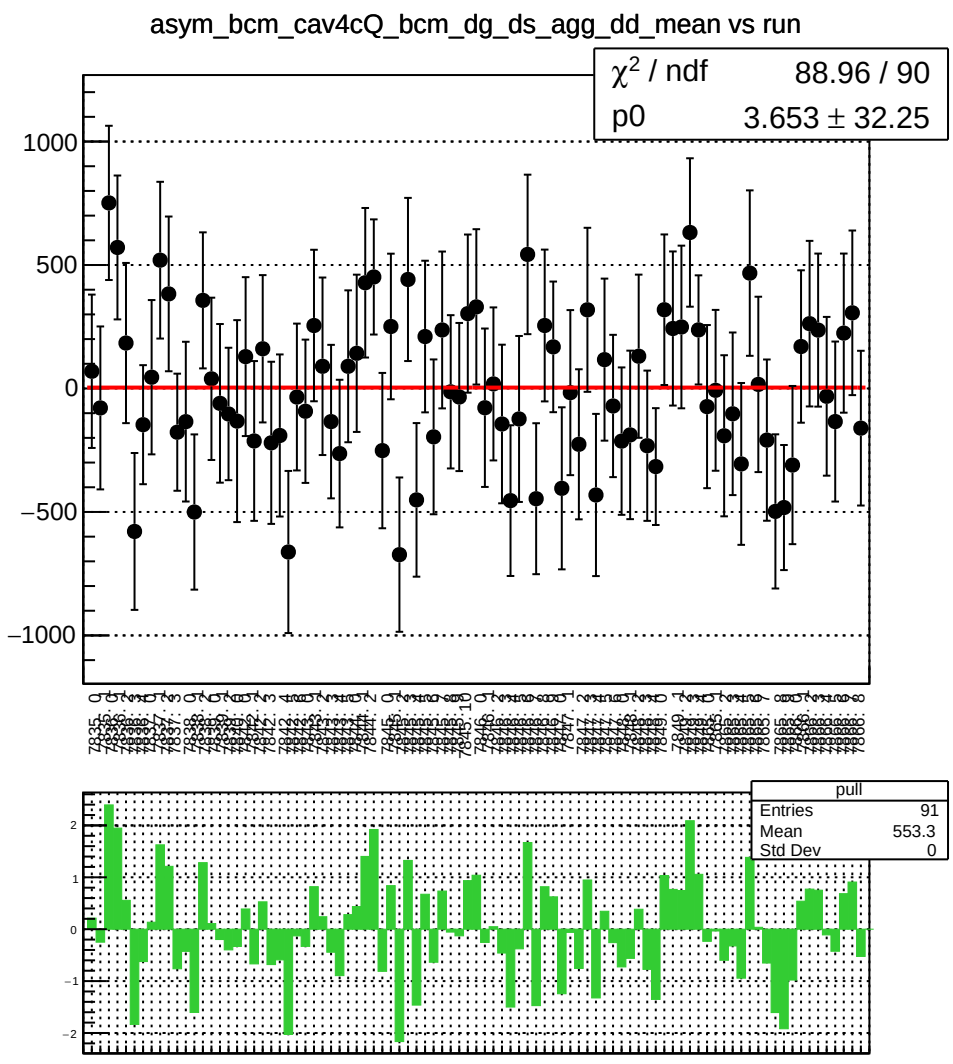

pull1D
Entries 91
Mean −0.01364
Std Dev 0.9898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

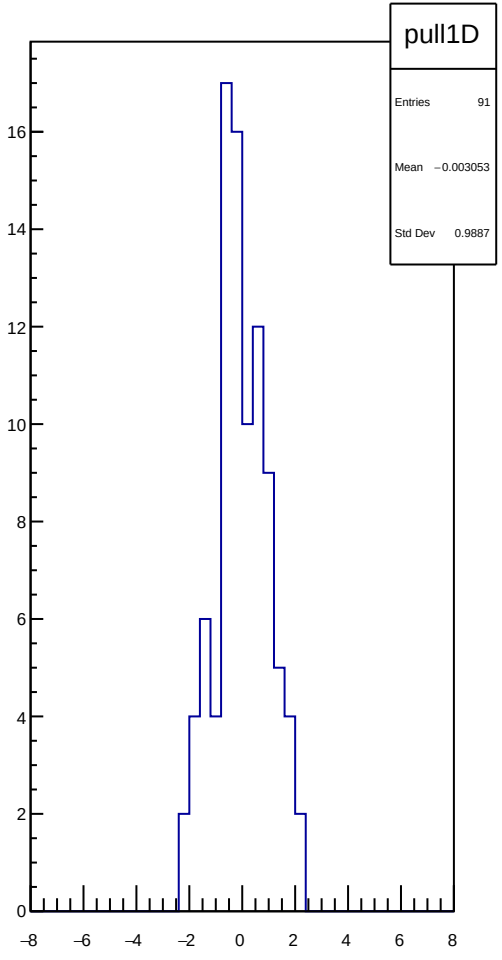

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3019 / 90
p0 33.17 ± 0.02506
37
36
35
34
33
32
31
30
29

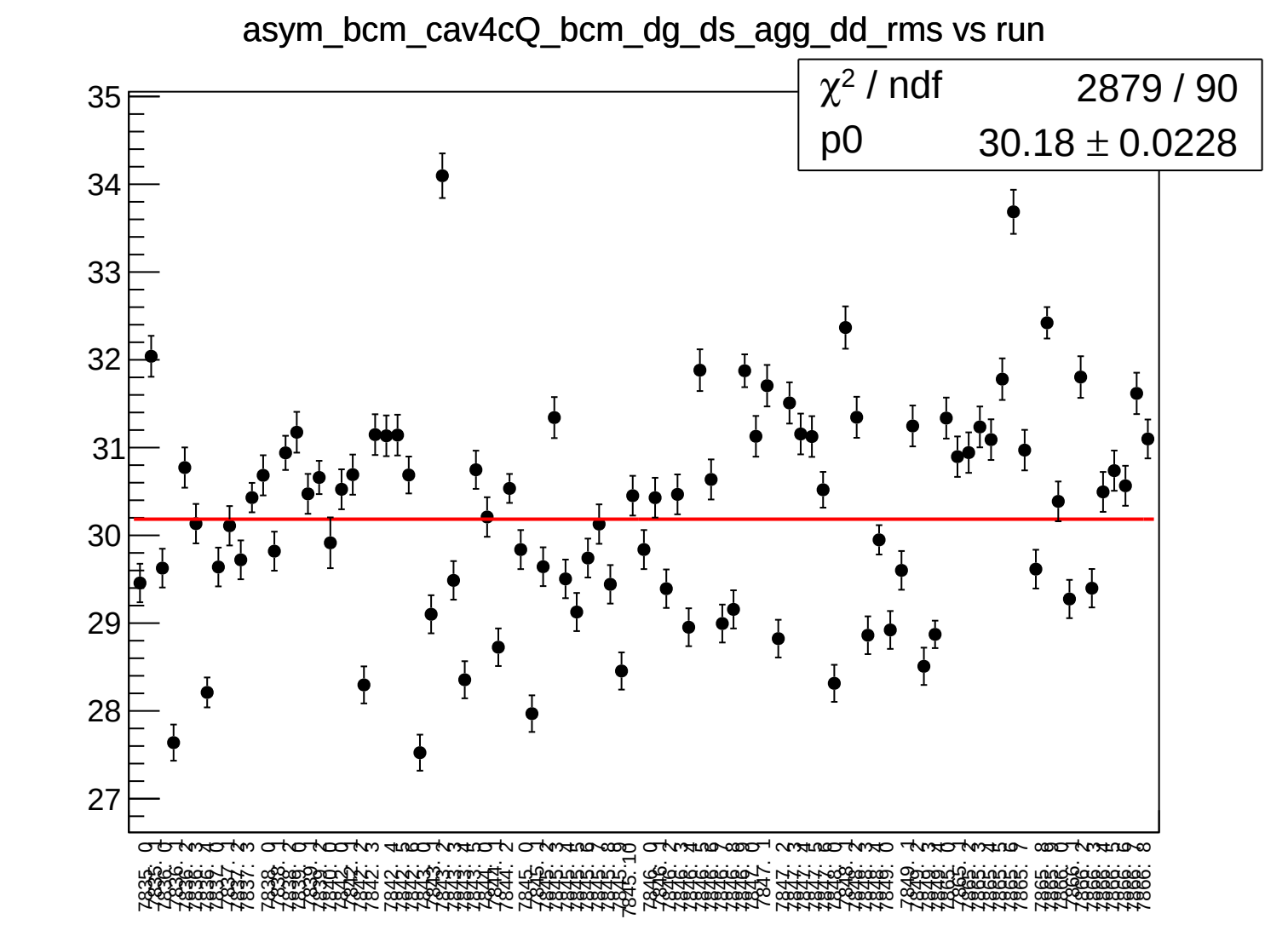

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.19 / 90
p0 −184.5 ± 151.5
pull
Entries 91
Mean 686.3
Std Dev 0

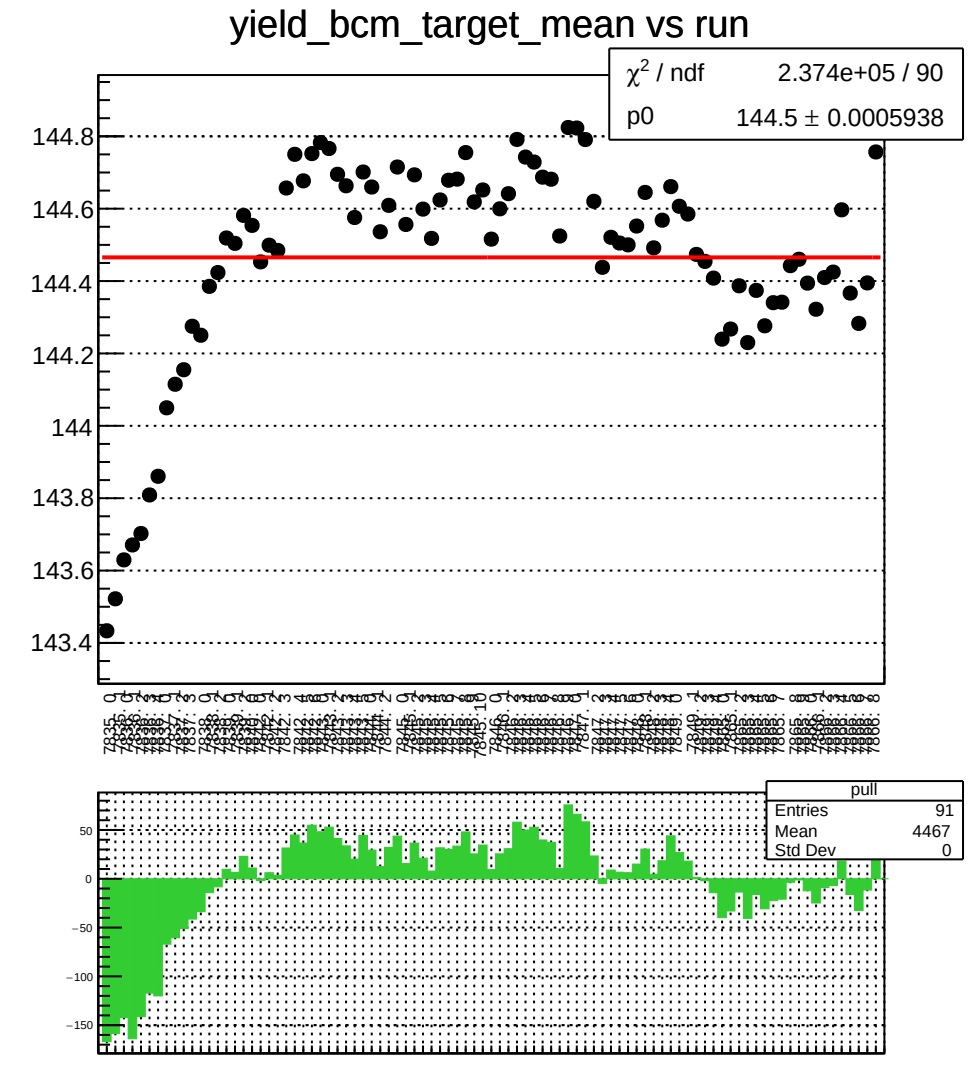

pull1D
Entries 91
Mean −0.0009345
Std Dev 0.5466

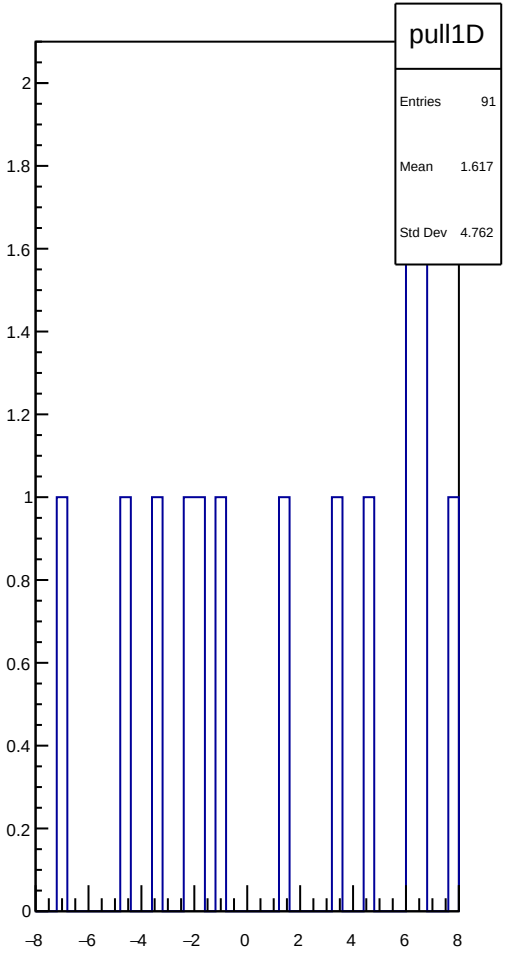

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3915 / 90
p0 141.8 ± 0.1071
160
155
150
145
140
135
130

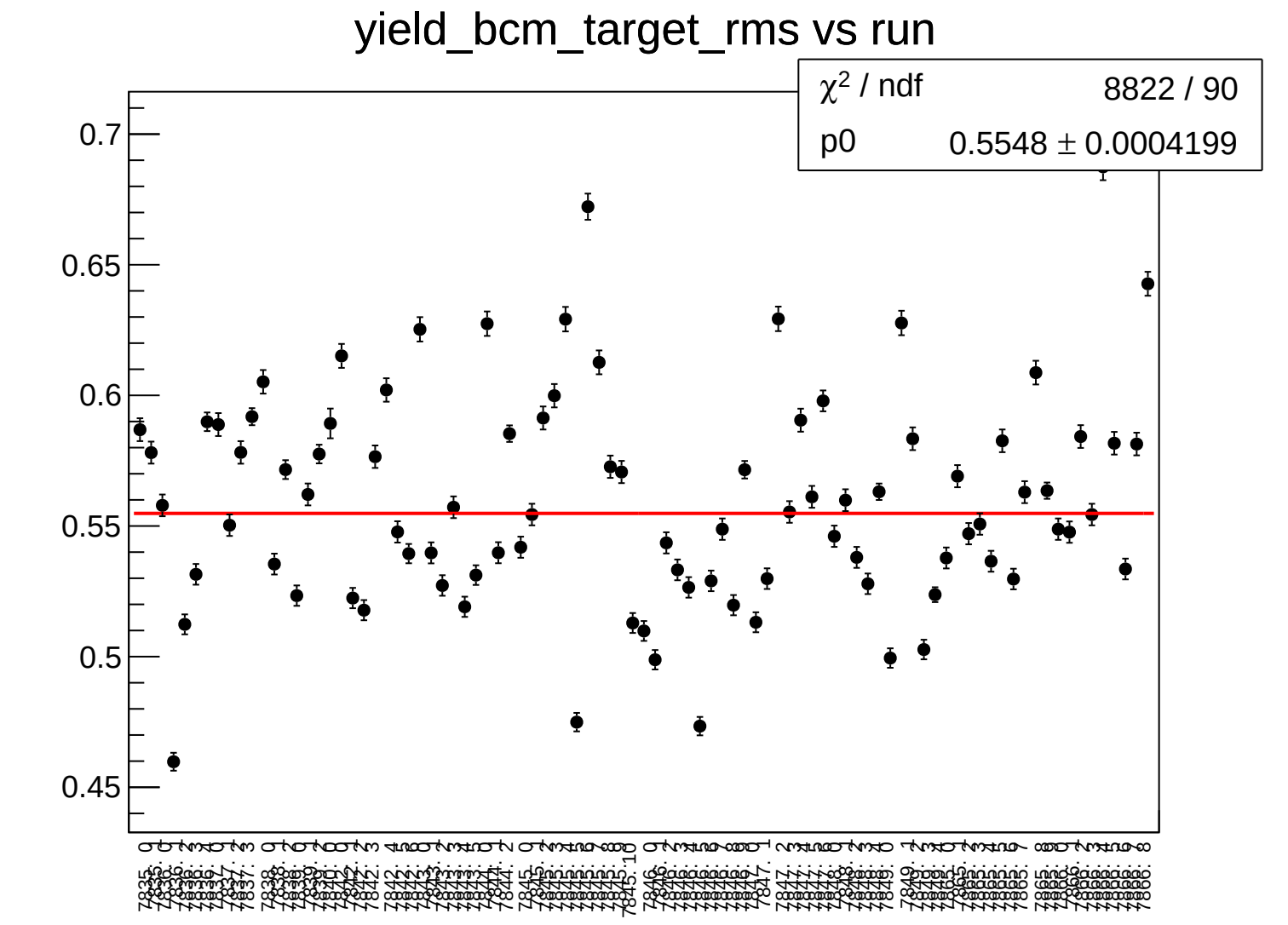

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.96 / 90
p0 3.653 ± 32.25
1000
500
0
−500
−1000
pull
Entries 91
Mean 553.3
Std Dev 0
2
1
0
−1
−2

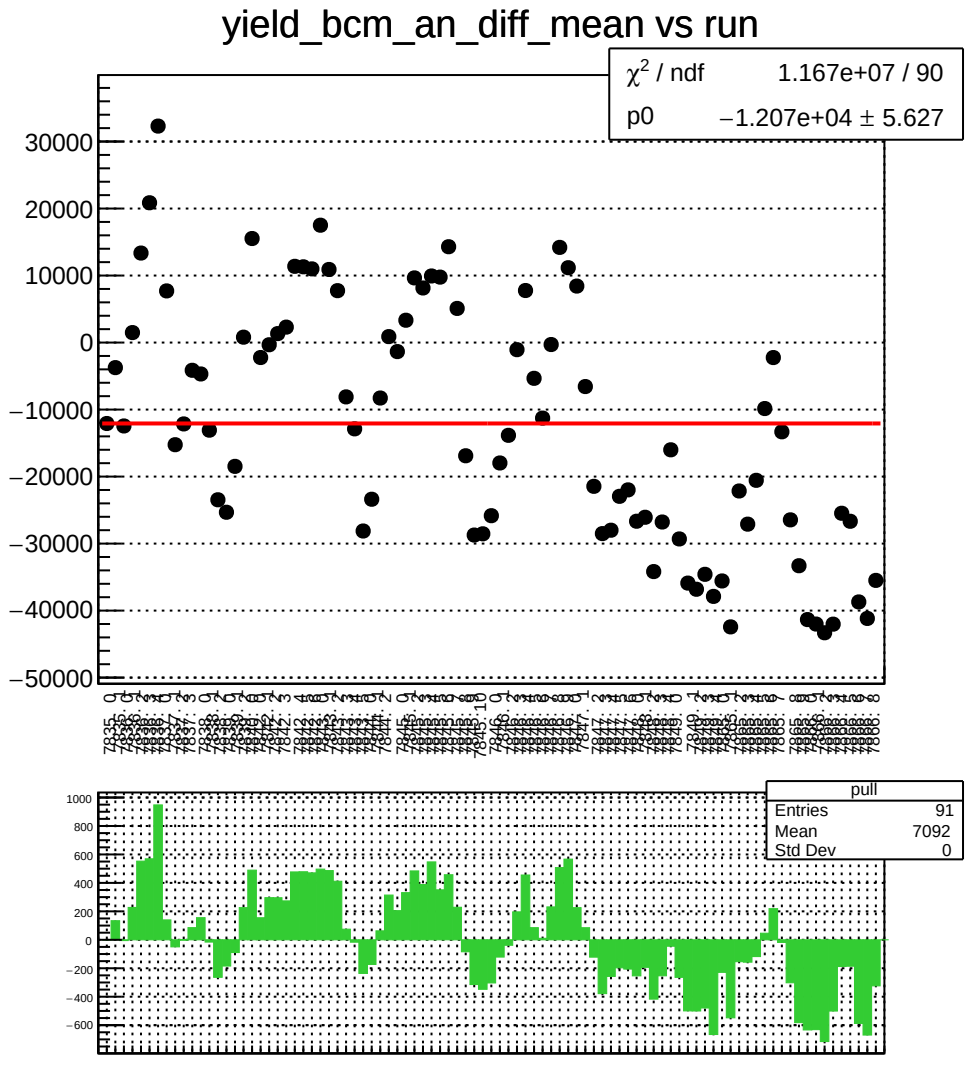

pull1D
Entries 91
Mean −0.003053
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

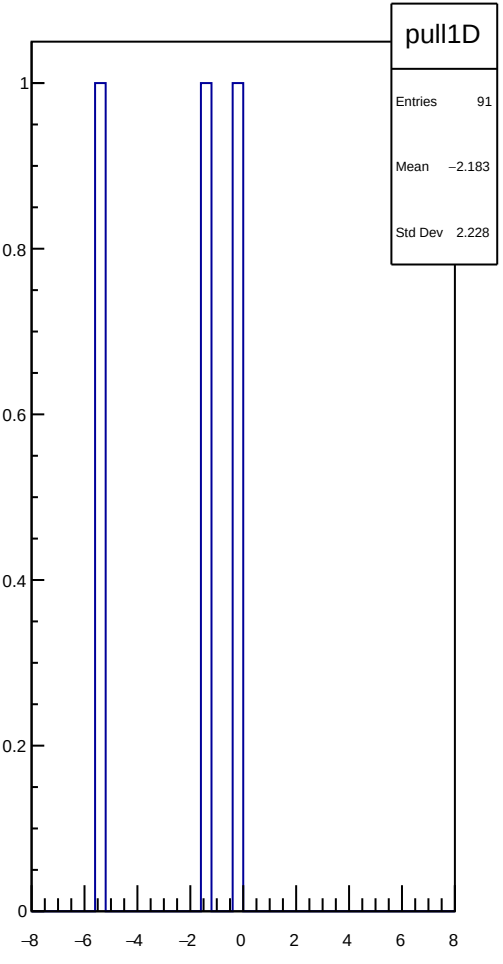

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2879 / 90
p0 30.18 ± 0.0228
35
34
33
32
31
30
29
28
27

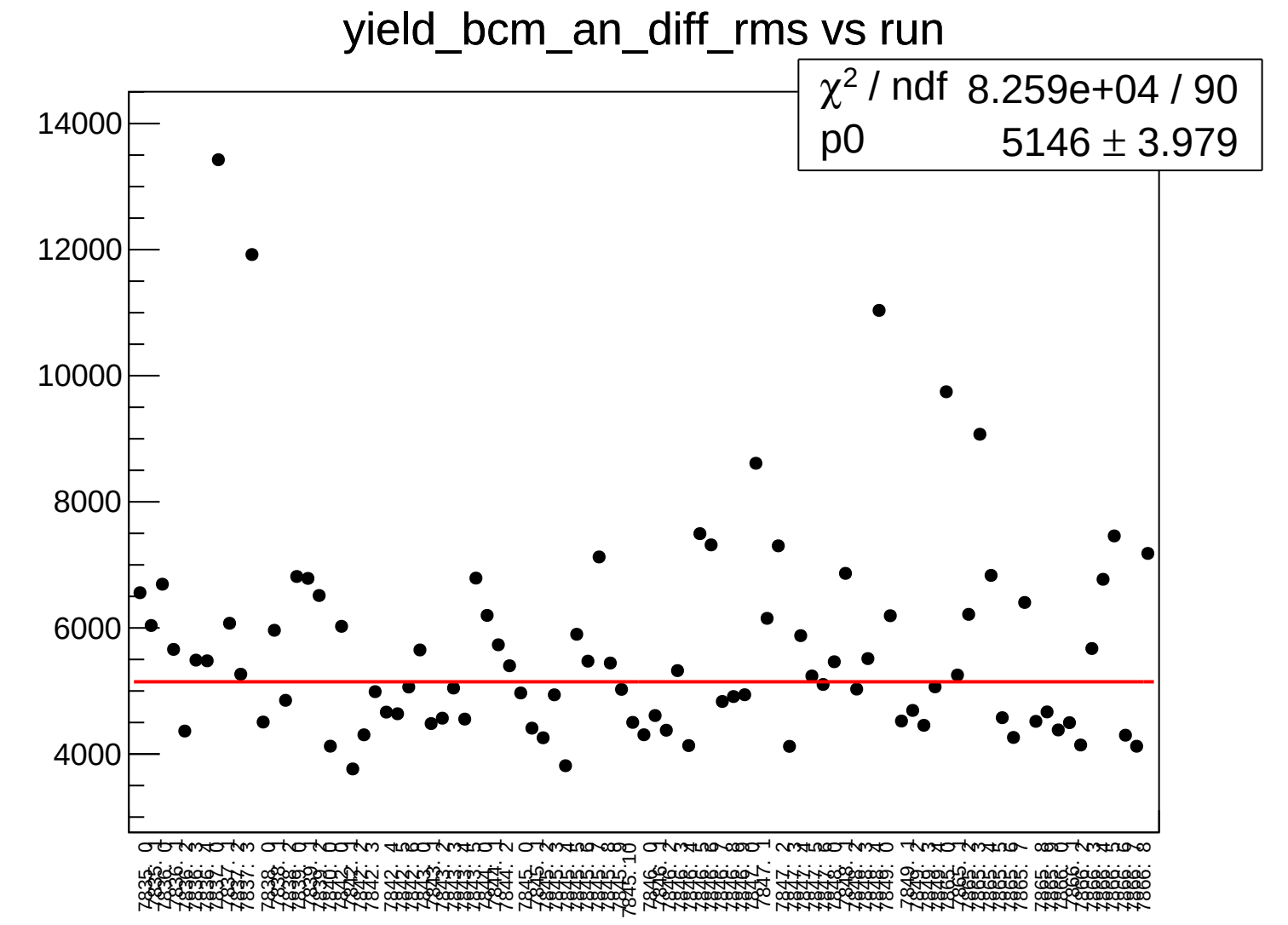

yield_bcm_target_mean vs run
χ² / ndf 2.374e+05 / 90
p0 144.5 ± 0.0005938
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
pull
Entries 91
Mean 4467
Std Dev 0
50
0
−50
−100
−150

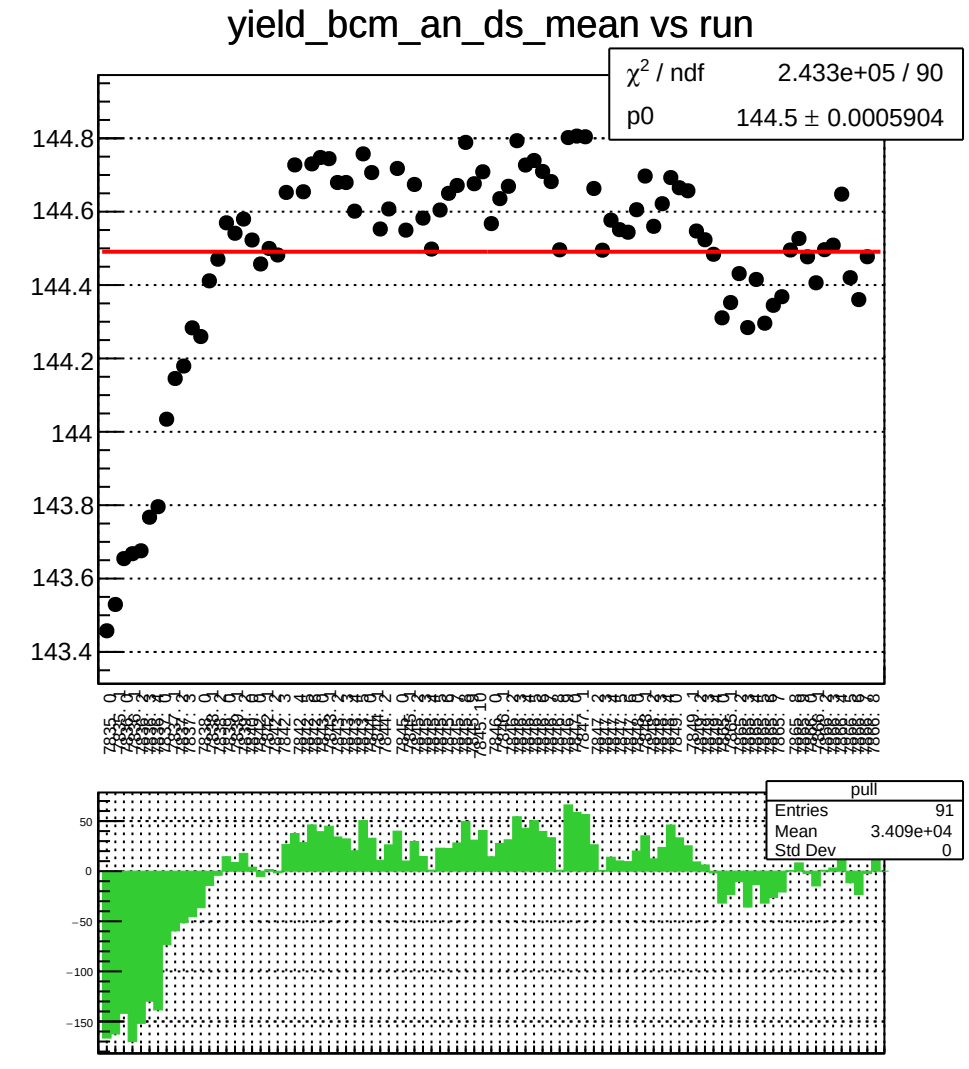

pull1D
Entries 91
Mean 1.617
Std Dev 4.762
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

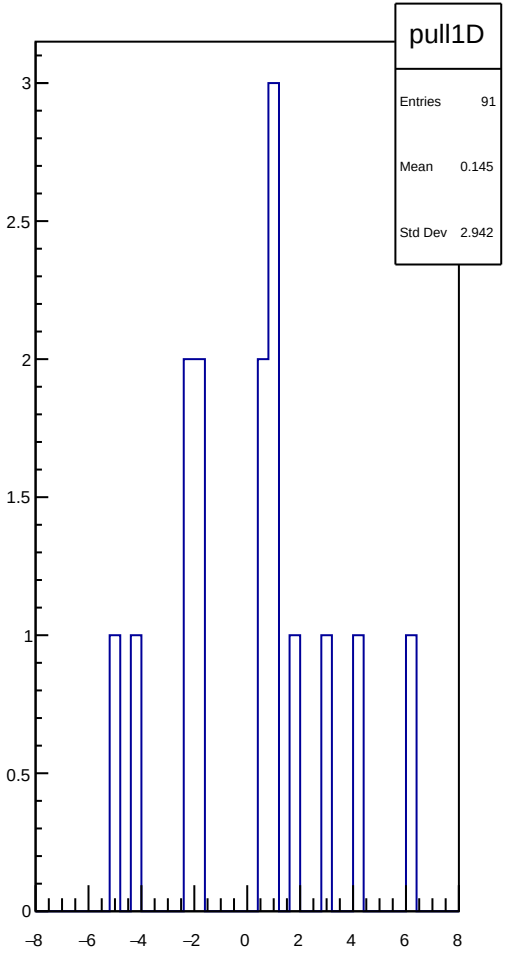

yield_bcm_target_rms vs run
χ² / ndf 8822 / 90
p0 0.5548 ± 0.0004199
0.7
0.65
0.6
0.55
0.5
0.45

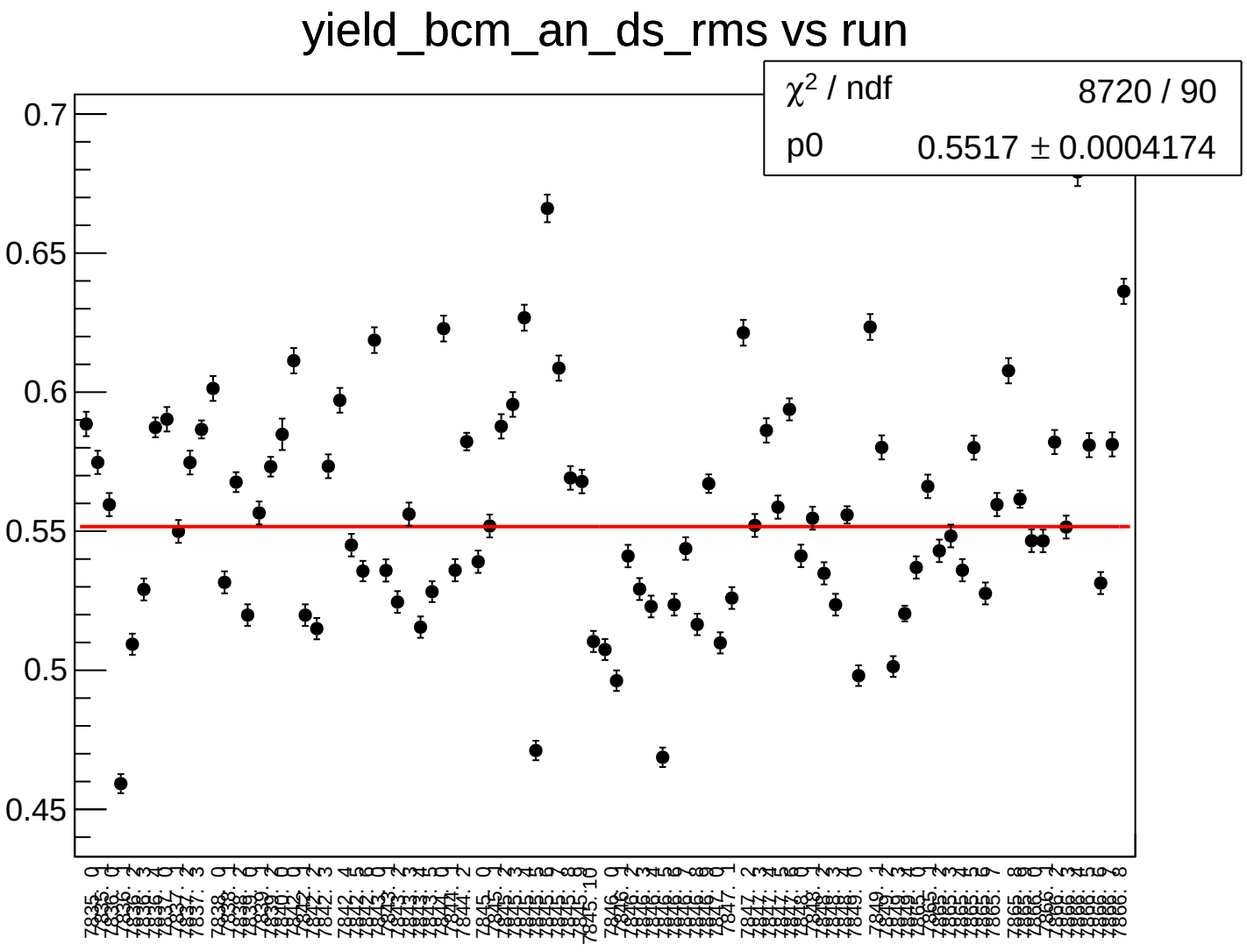

yield_bcm_an_diff_mean vs run
χ² / ndf 1.167e+07 / 90
p0 −1.207e+04 ± 5.627
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean 7092
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

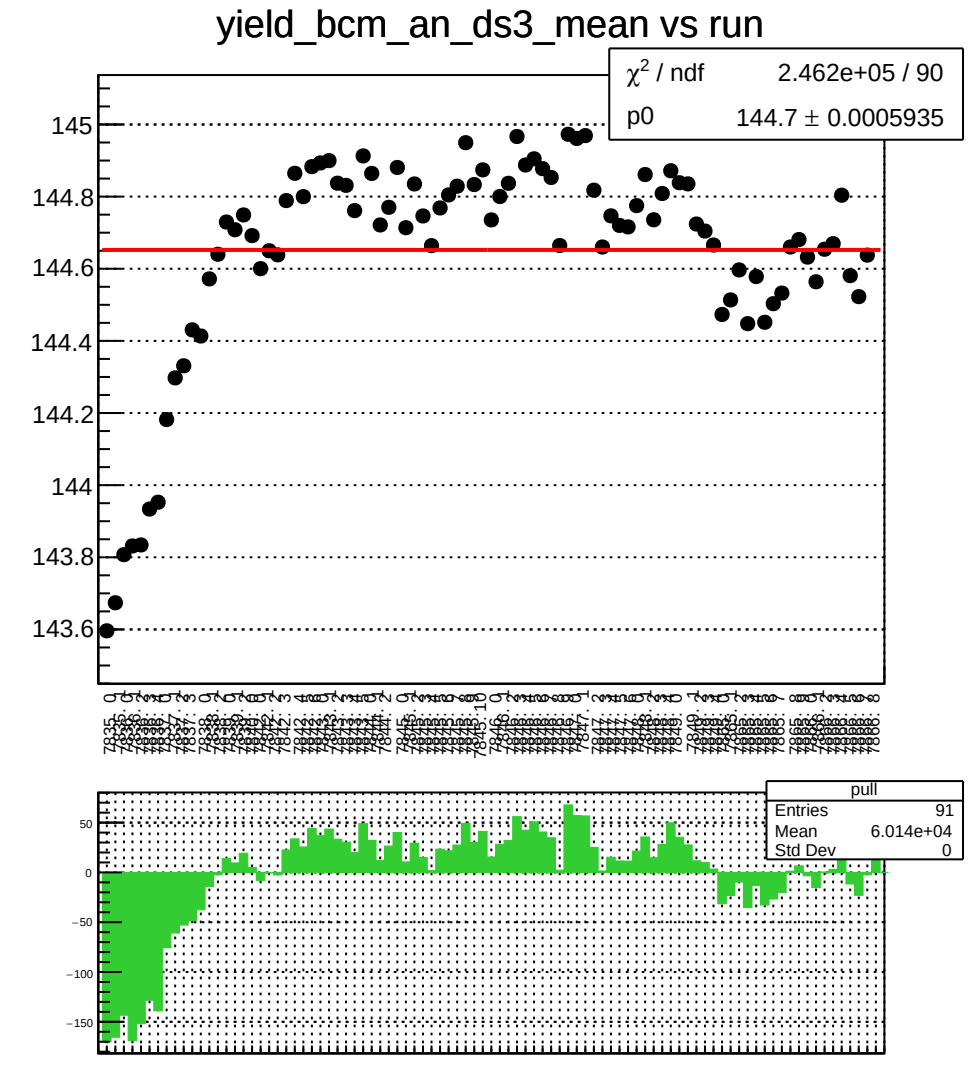

pull1D
Entries 91
Mean −2.183
Std Dev 2.228
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

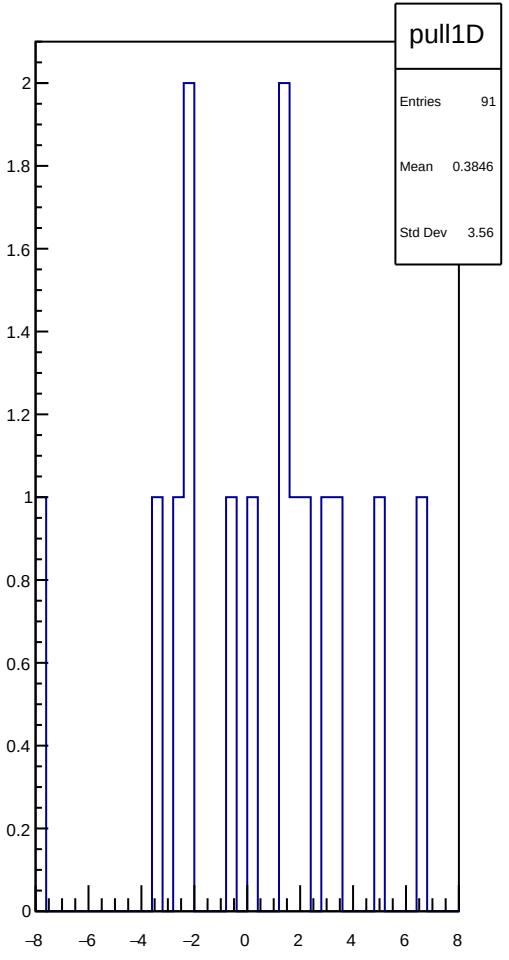

yield_bcm_an_diff_rms vs run
χ² / ndf 8.259e+04 / 90
p0 5146 ± 3.979
14000
12000
10000
8000
6000
4000

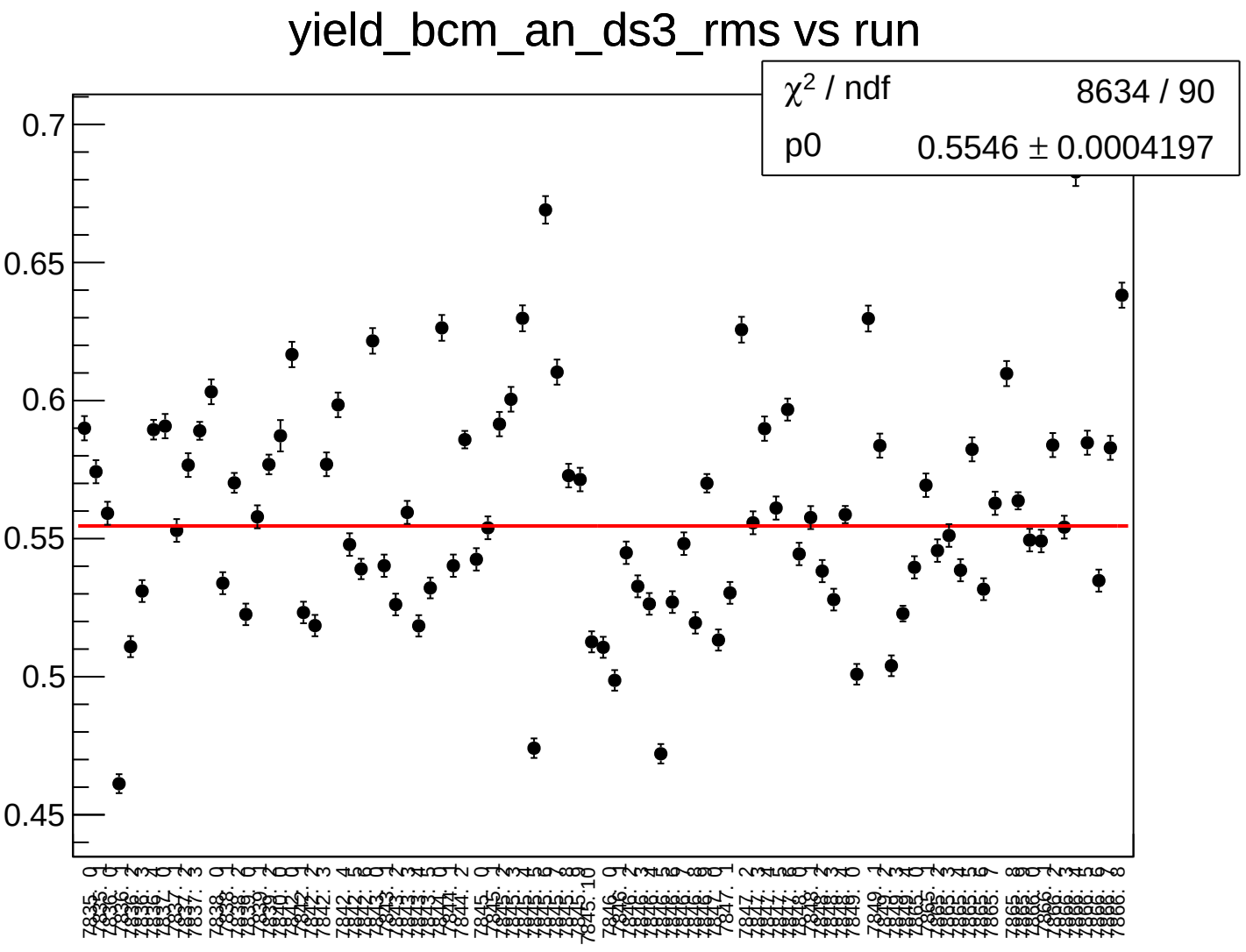

yield_bcm_an_ds_mean vs run
χ² / ndf 2.433e+05 / 90
p0 144.5 ± 0.0005904
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
pull
Entries 91
Mean 3.409e+04
Std Dev 0
50
0
−50
−100
−150

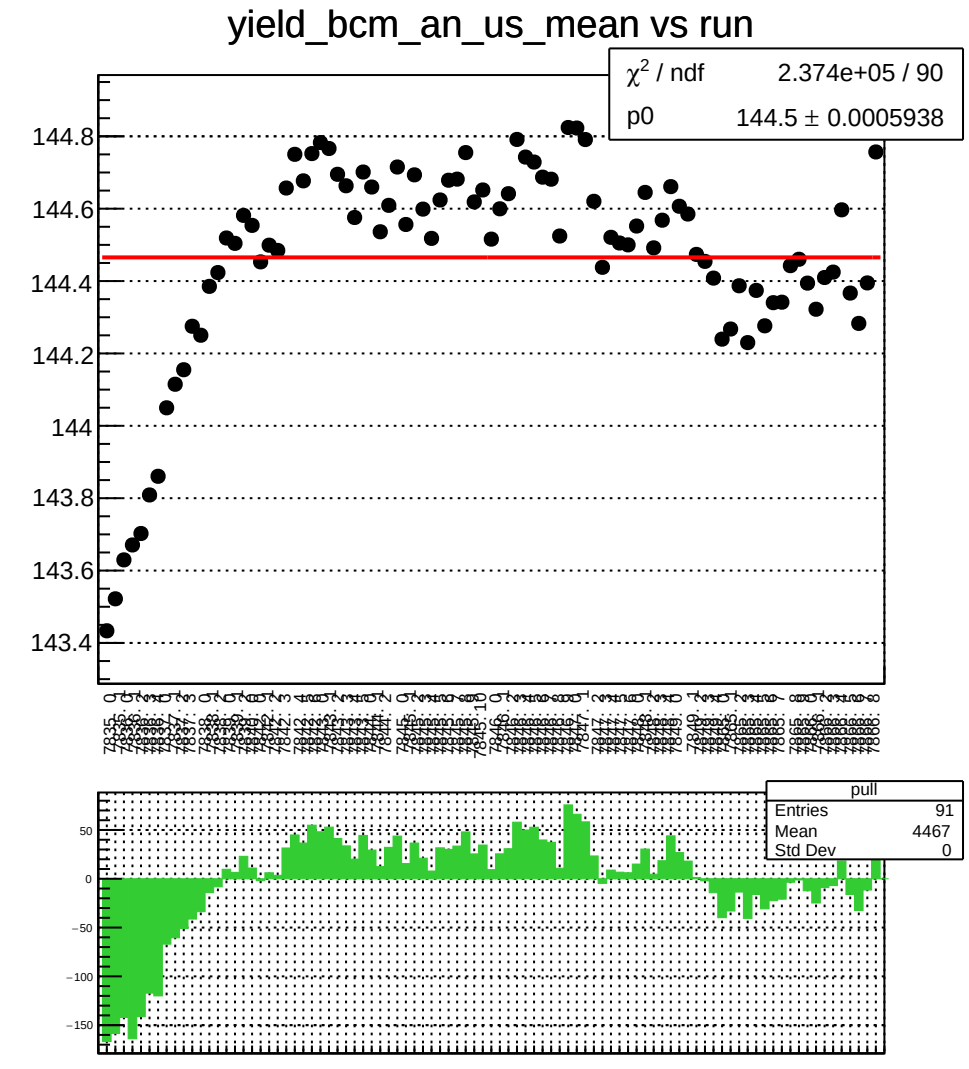

pull1D
Entries 91
Mean 0.145
Std Dev 2.942
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

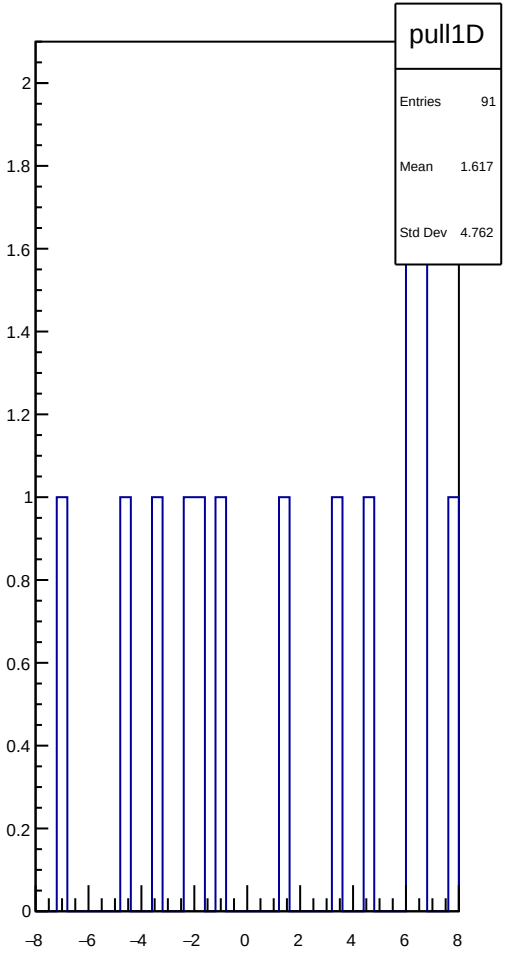

yield_bcm_an_ds_rms vs run
χ² / ndf 8720 / 90
p0 0.5517 ± 0.0004174
0.7
0.65
0.6
0.55
0.5
0.45

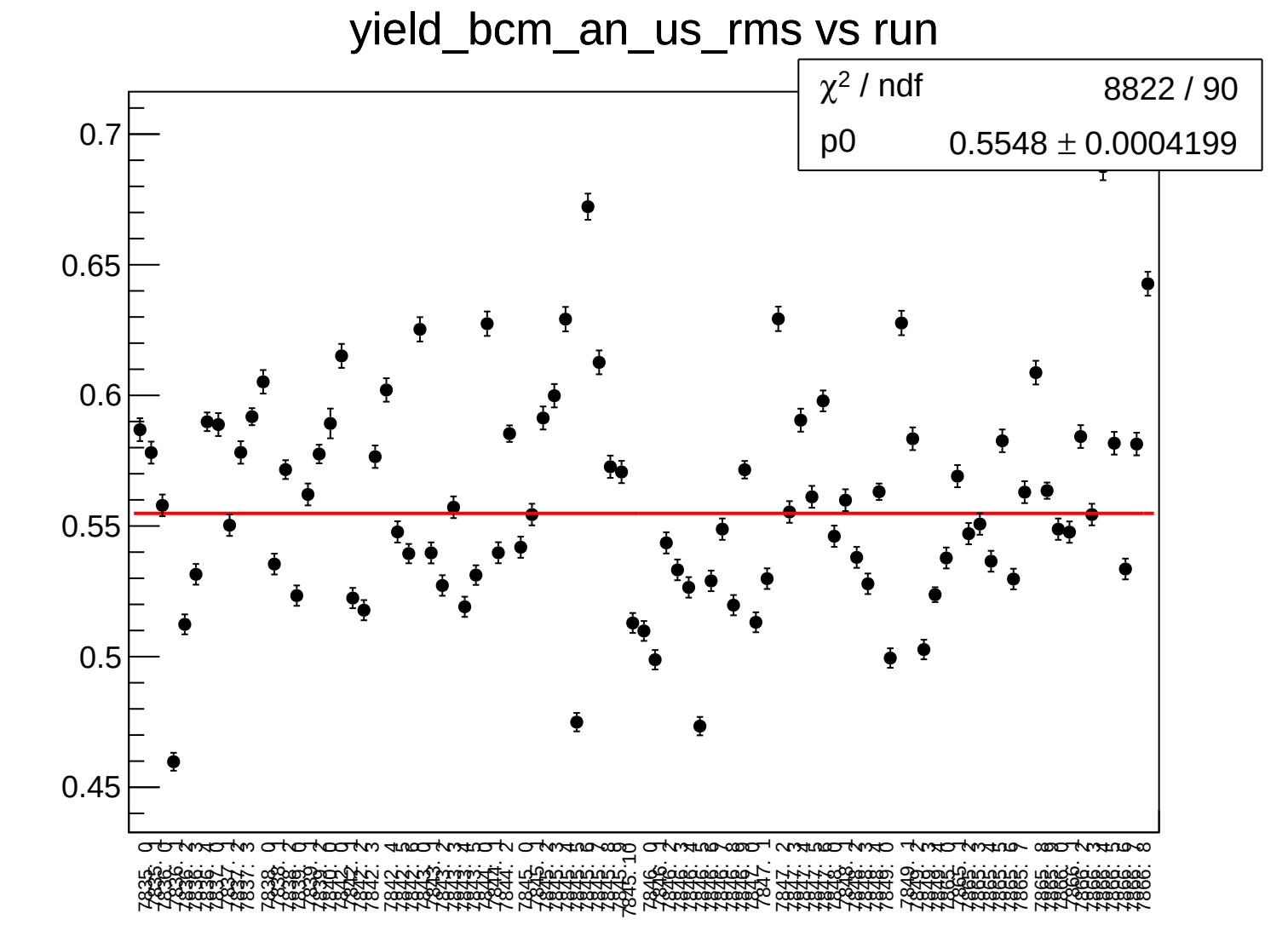

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.462e+05 / 90
p0 144.7 ± 0.0005935
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 91
Mean 6.014e+04
Std Dev 0
50
0
−50
−100
−150

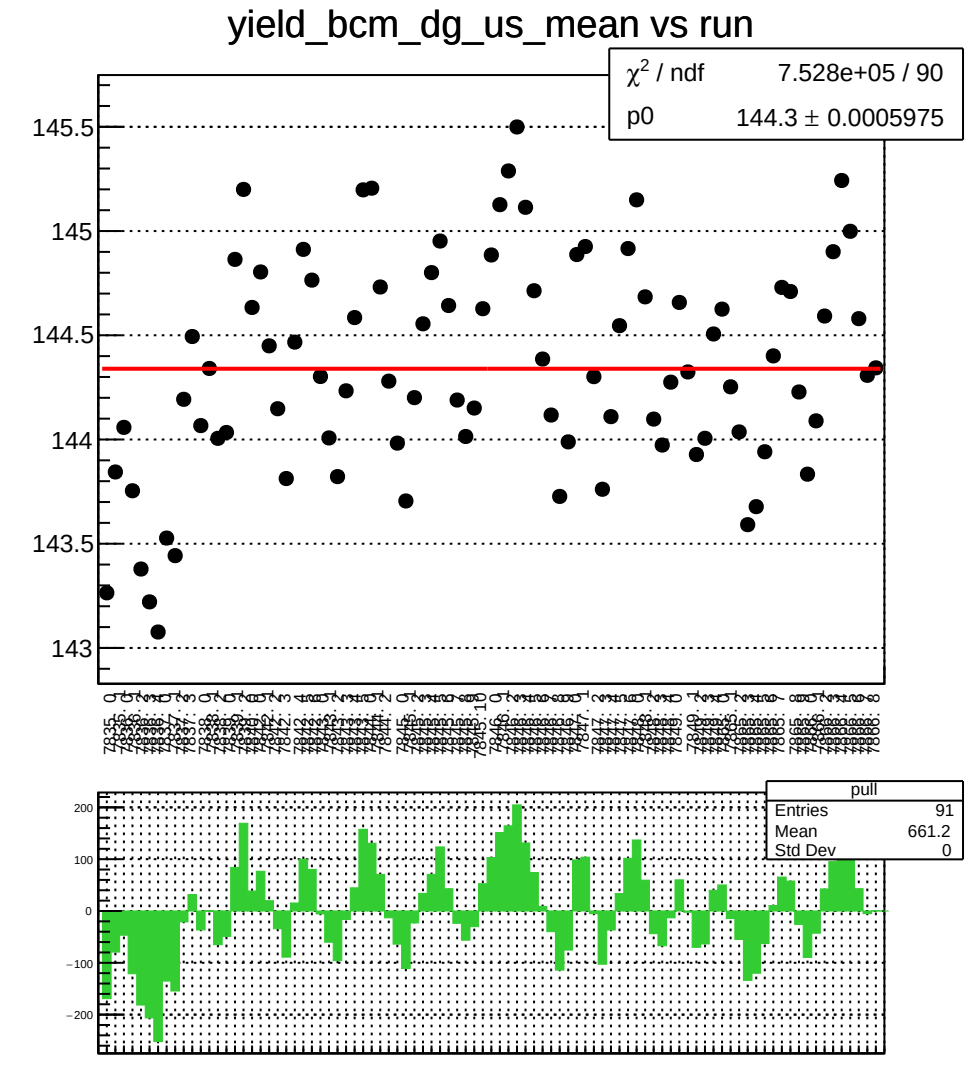

pull1D
Entries 91
Mean 0.3846
Std Dev 3.56
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

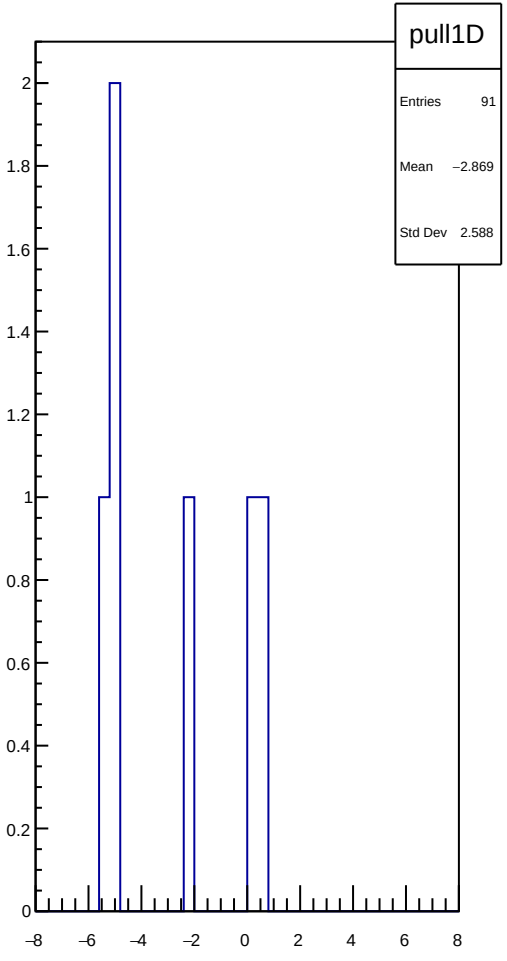

yield_bcm_an_ds3_rms vs run
χ² / ndf 8634 / 90
p0 0.5546 ± 0.0004197
0.7
0.65
0.6
0.55
0.5
0.45

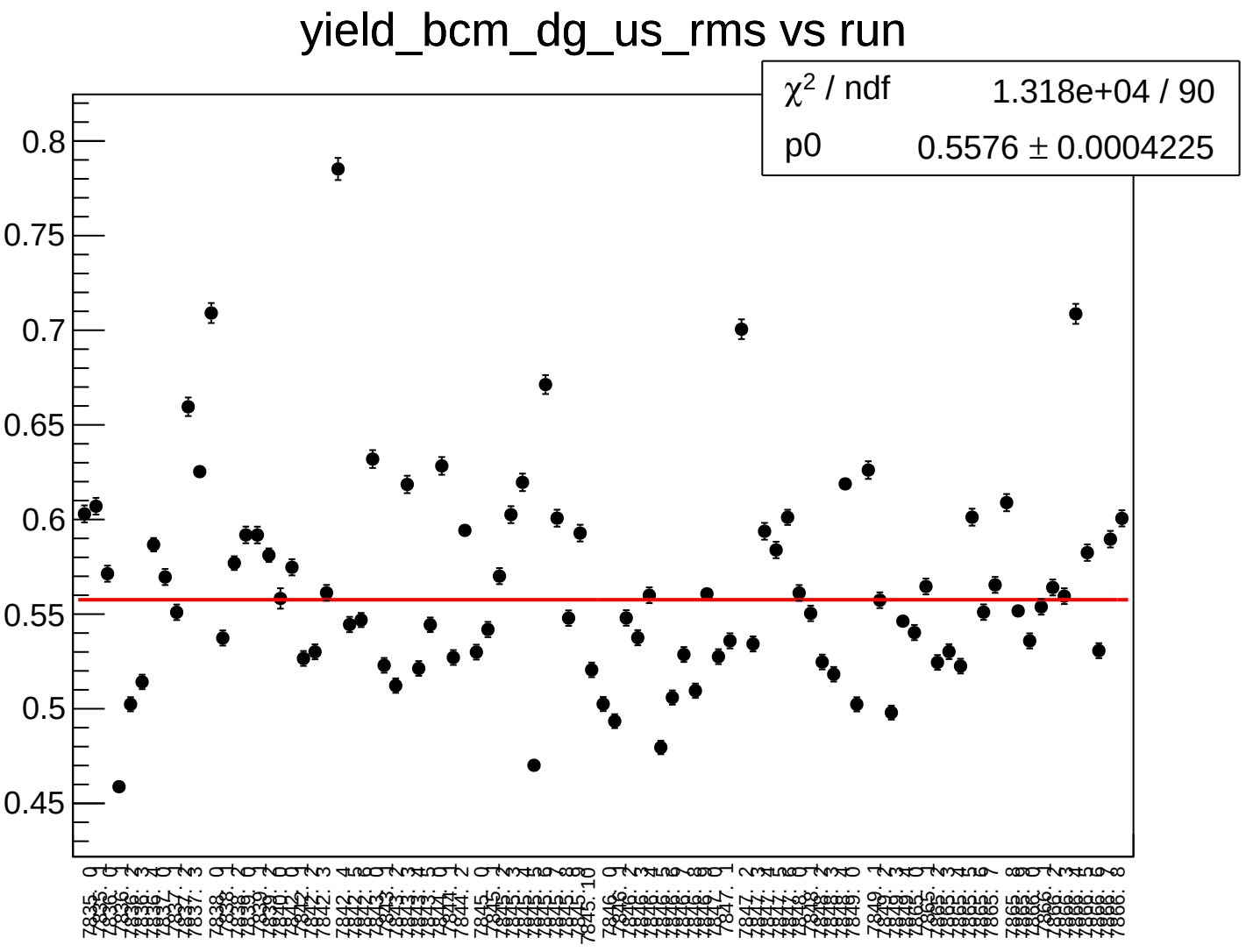

yield_bcm_an_us_mean vs run
χ² / ndf 2.374e+05 / 90
p0 144.5 ± 0.0005938
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
pull
Entries 91
Mean 4467
Std Dev 0
50
0
−50
−100
−150

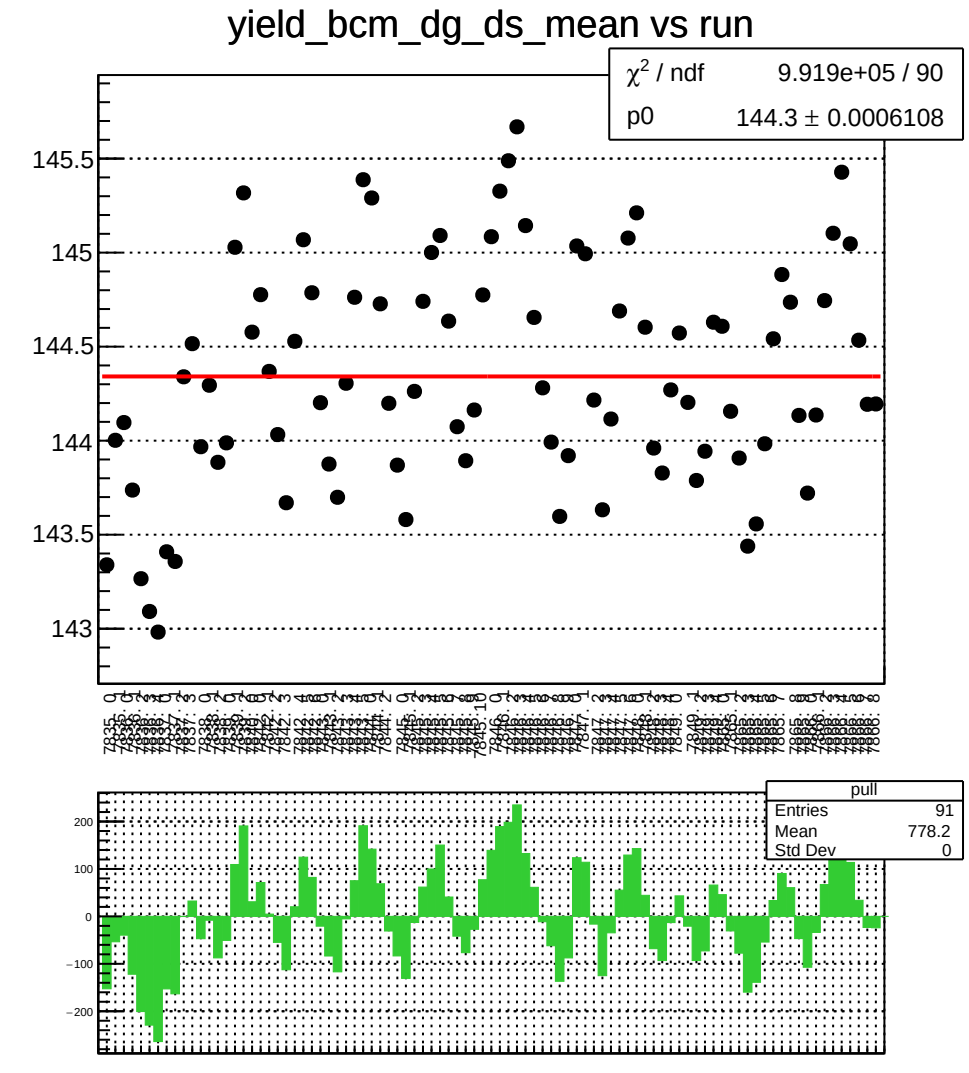

pull1D
Entries 91
Mean 1.617
Std Dev 4.762
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

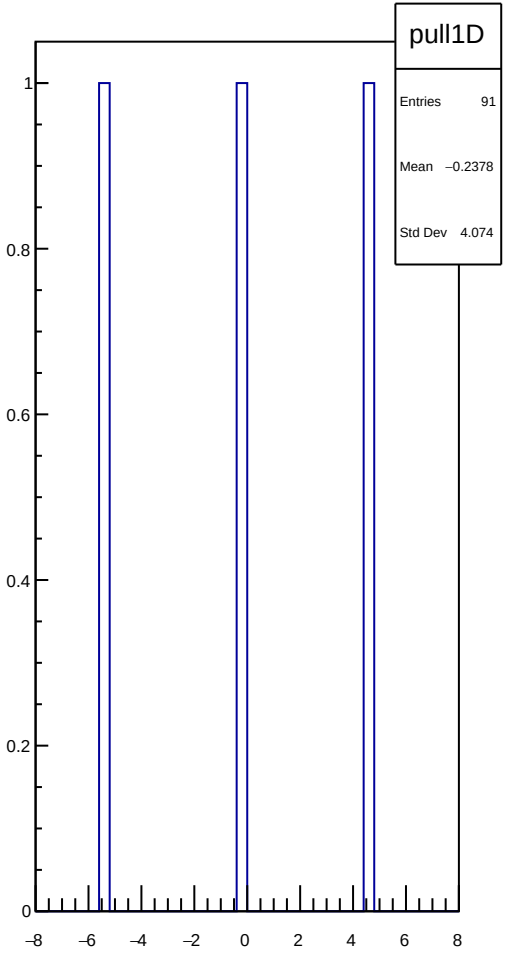

yield_bcm_an_us_rms vs run
χ² / ndf 8822 / 90
p0 0.5548 ± 0.0004199
0.7
0.65
0.6
0.55
0.5
0.45

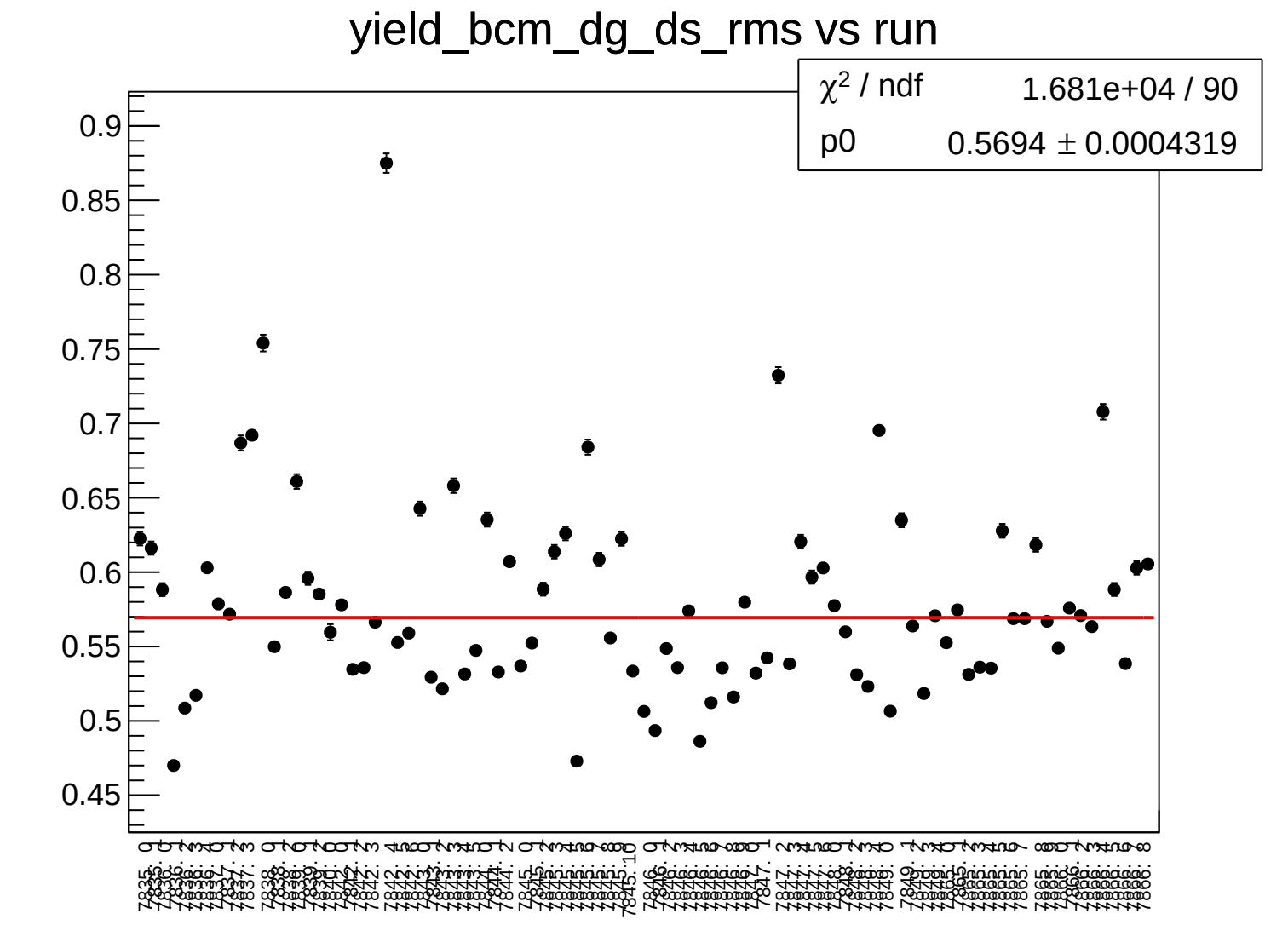

yield_bcm_dg_us_mean vs run
χ² / ndf 7.528e+05 / 90
p0 144.3 ± 0.0005975
145.5
145
144.5
144
143.5
143
pull
Entries 91
Mean 661.2
Std Dev 0
200
100
0
−100
−200

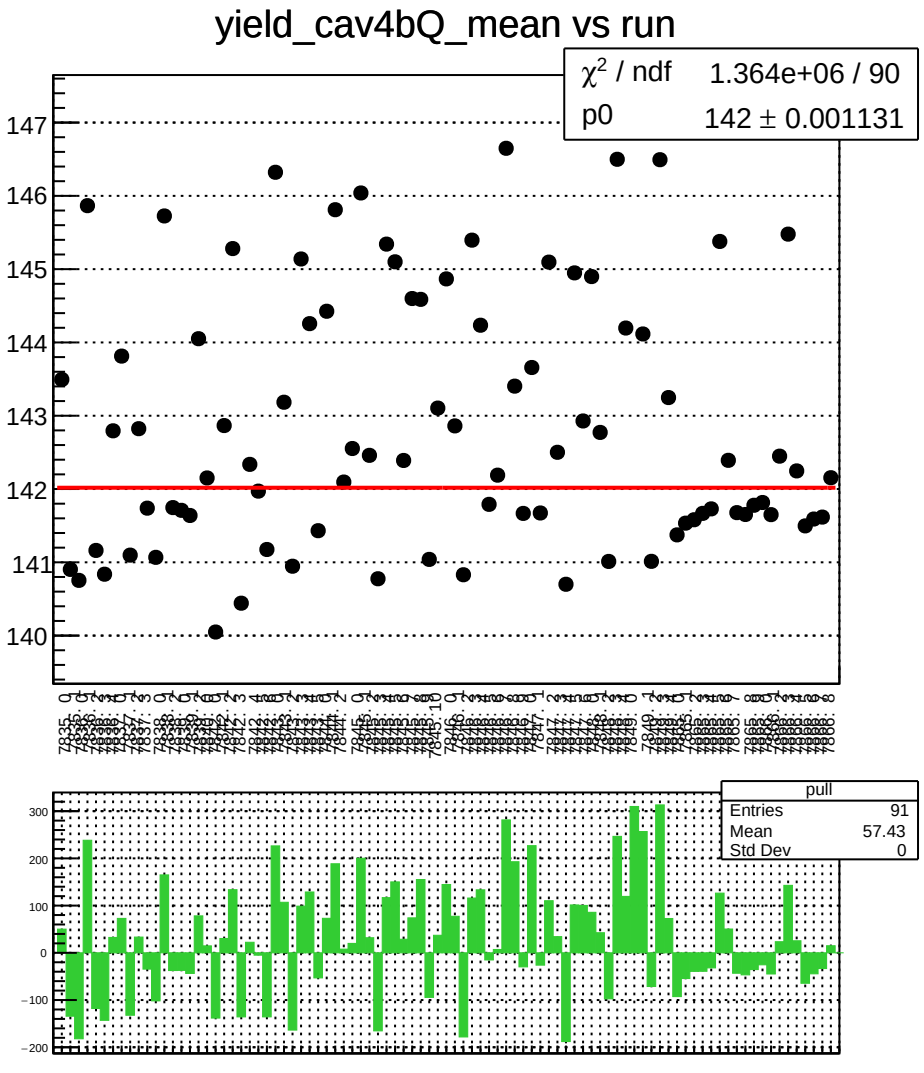

pull1D
Entries 91
Mean −2.869
Std Dev 2.588
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

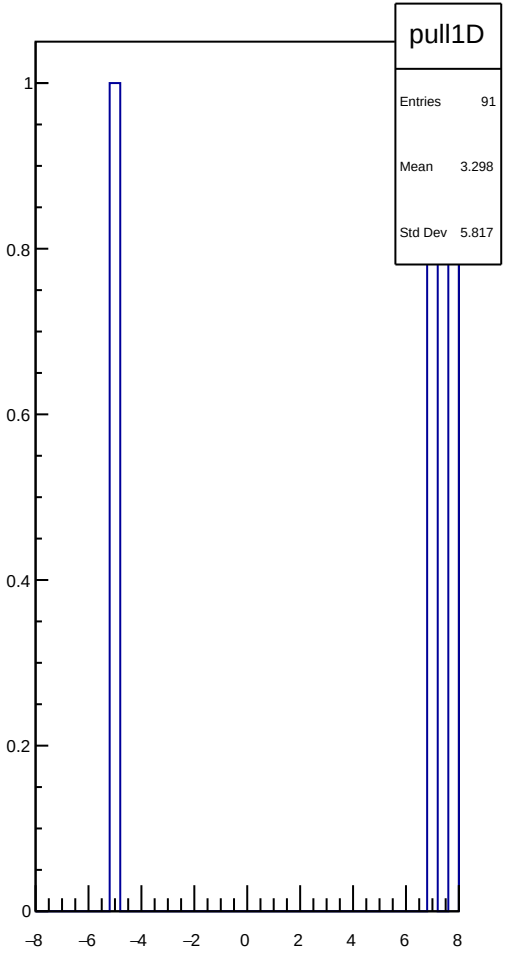

yield_bcm_dg_us_rms vs run
χ² / ndf 1.318e+04 / 90
p0 0.5576 ± 0.0004225
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

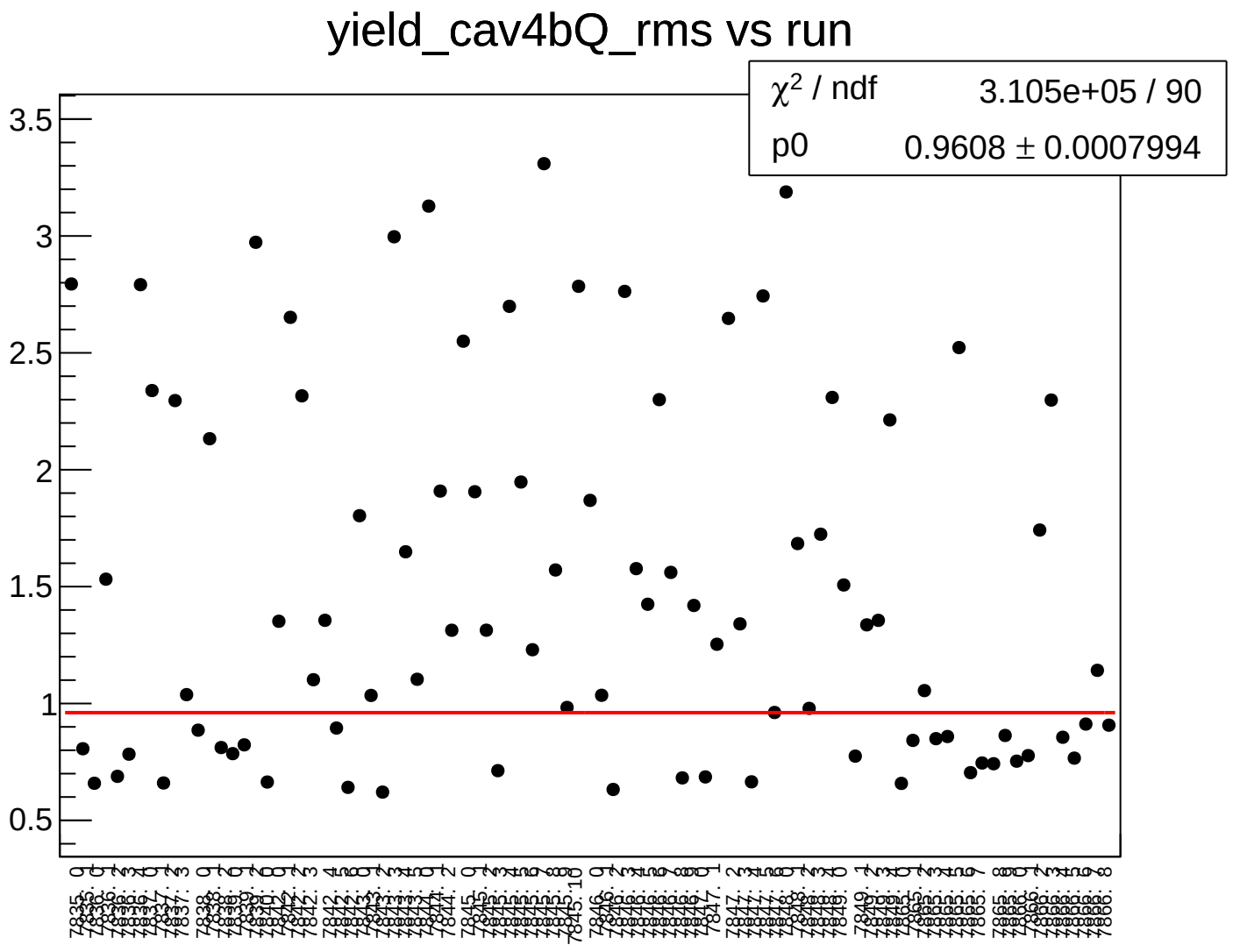

yield_bcm_dg_ds_mean vs run
χ² / ndf 9.919e+05 / 90
p0 144.3 ± 0.0006108
145.5
145
144.5
144
143.5
143
pull
Entries 91
Mean 778.2
Std Dev 0
200
100
0
−100
−200

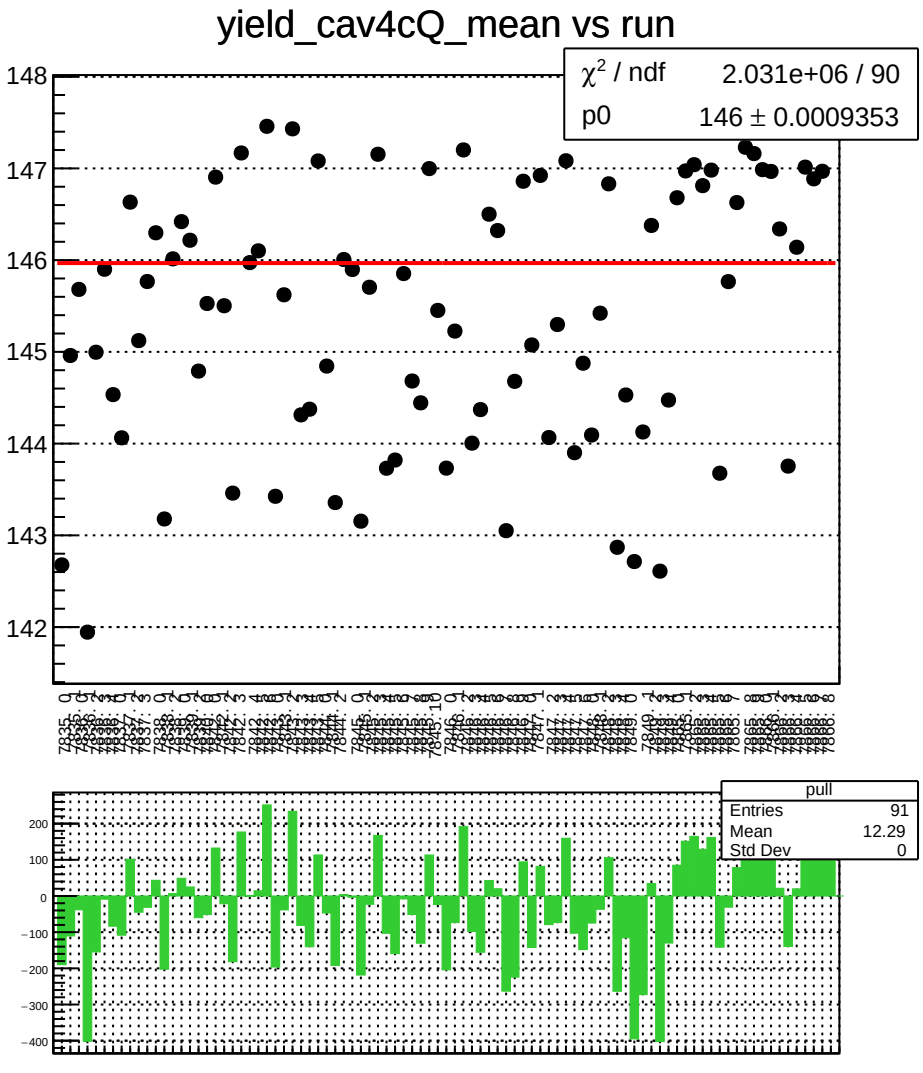

pull1D
Entries 91
Mean −0.2378
Std Dev 4.074
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

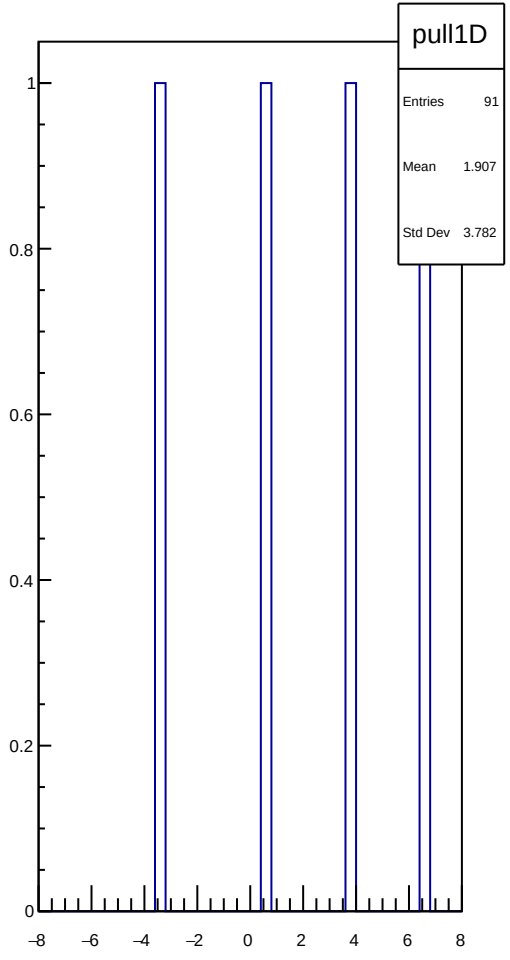

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.681e+04 / 90
p0 0.5694 ± 0.0004319
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

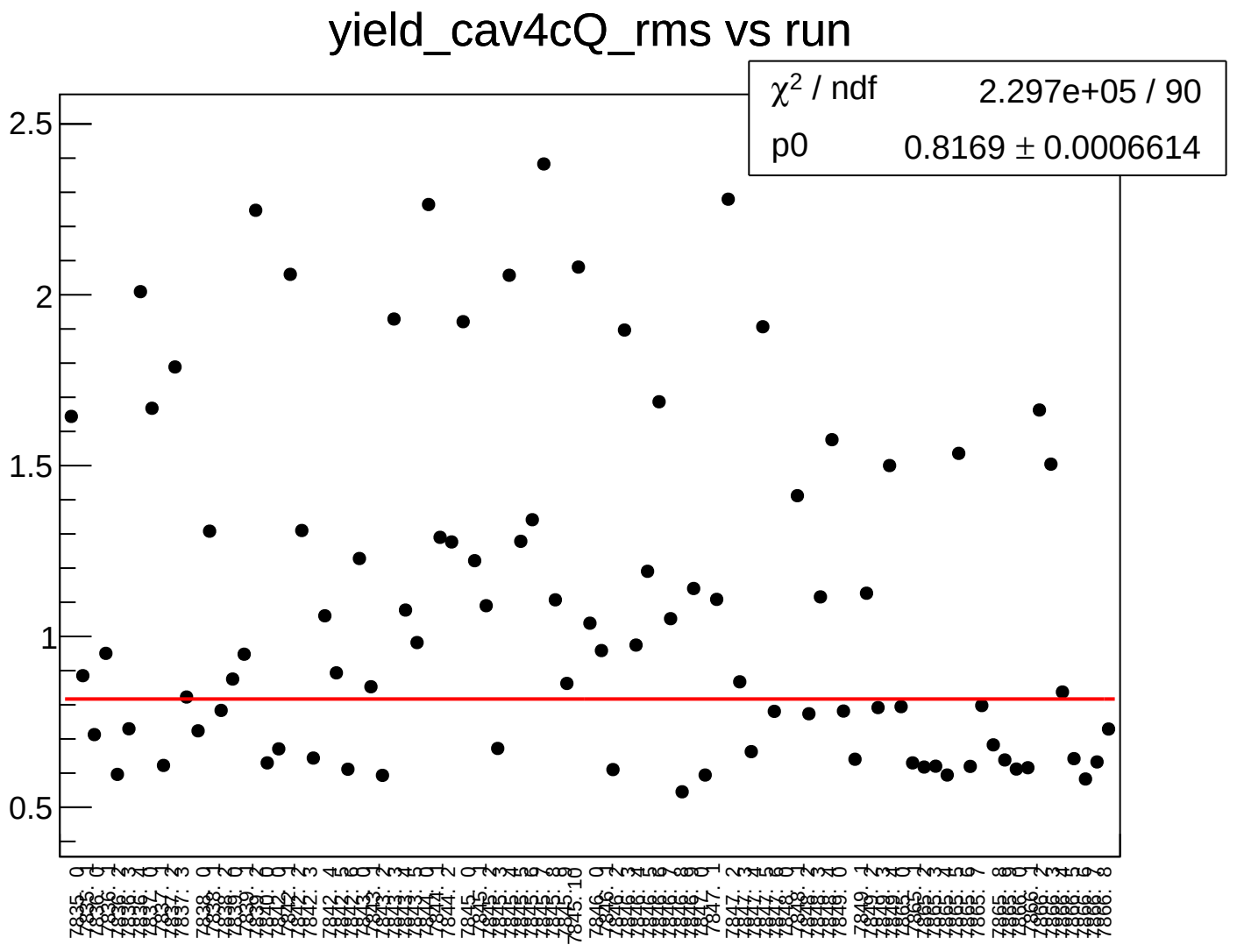

yield_cav4bQ_mean vs run
χ² / ndf 1.364e+06 / 90
p0 142 ± 0.001131
147
146
145
144
143
142
141
140
pull
Entries 91
Mean 57.43
Std Dev 0
300
200
100
0
−100
−200

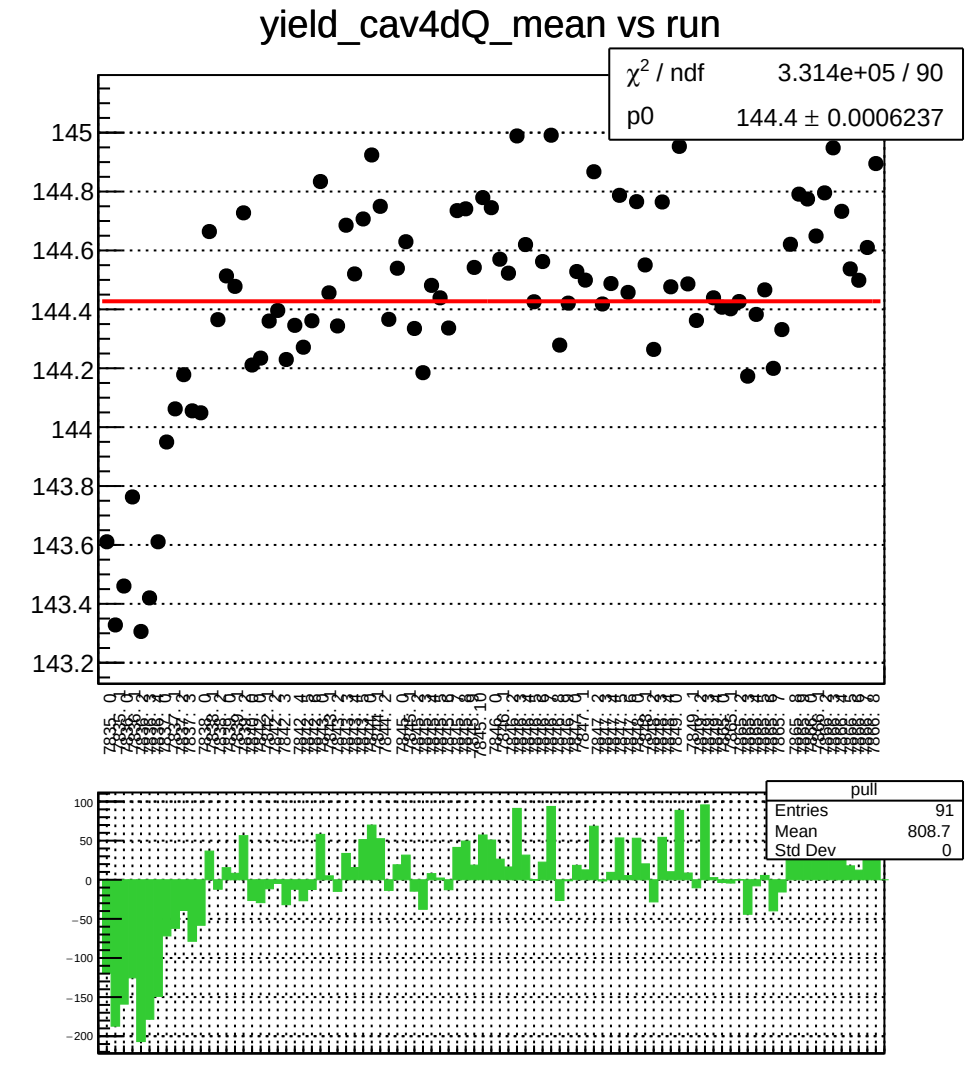

pull1D
Entries 91
Mean 3.298
Std Dev 5.817
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

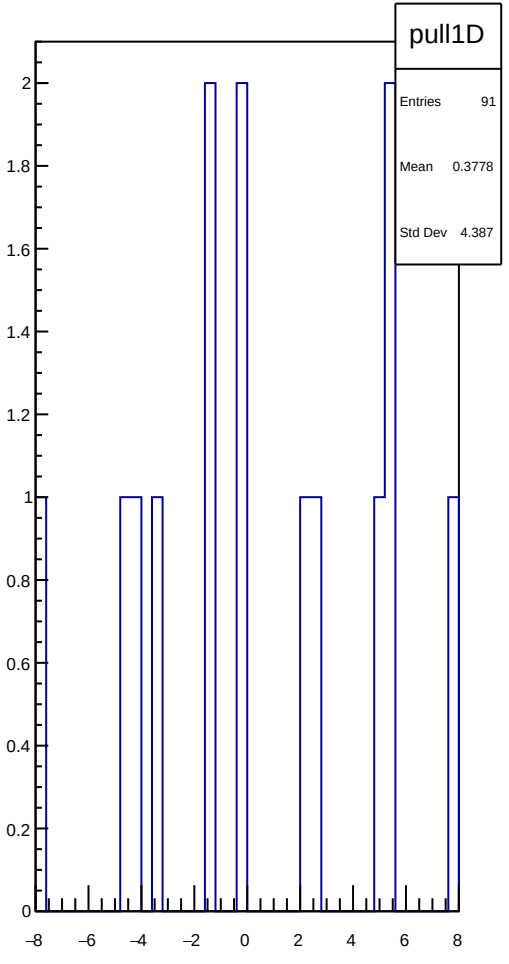

yield_cav4bQ_rms vs run
χ² / ndf 3.105e+05 / 90
p0 0.9608 ± 0.0007994
3.5
3
2.5
2
1.5
1
0.5

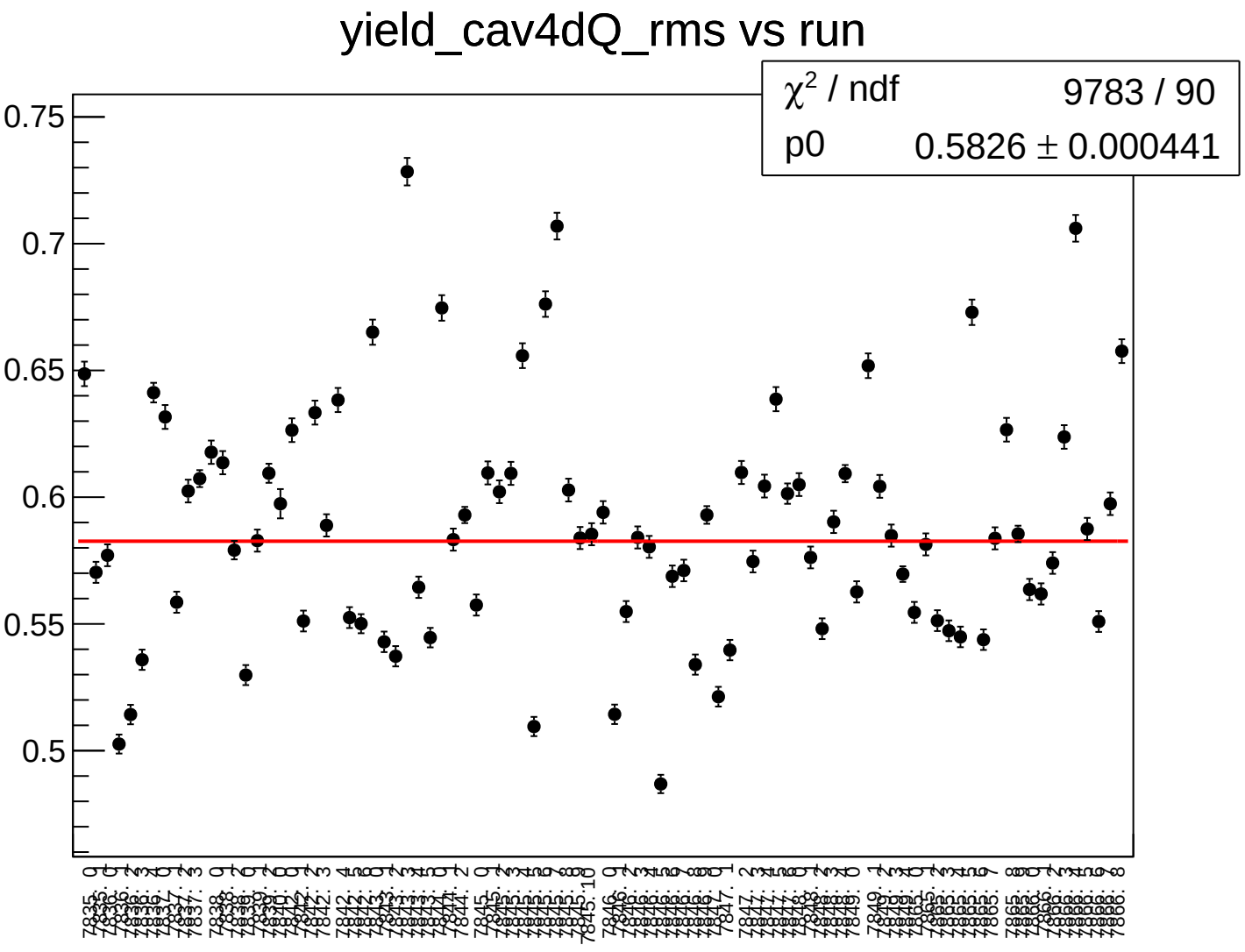

yield_cav4cQ_mean vs run
χ² / ndf 2.031e+06 / 90
p0 146 ± 0.0009353
148
147
146
145
144
143
142
pull
Entries 91
Mean 12.29
Std Dev 0
200
100
0
−100
−200
−300
−400

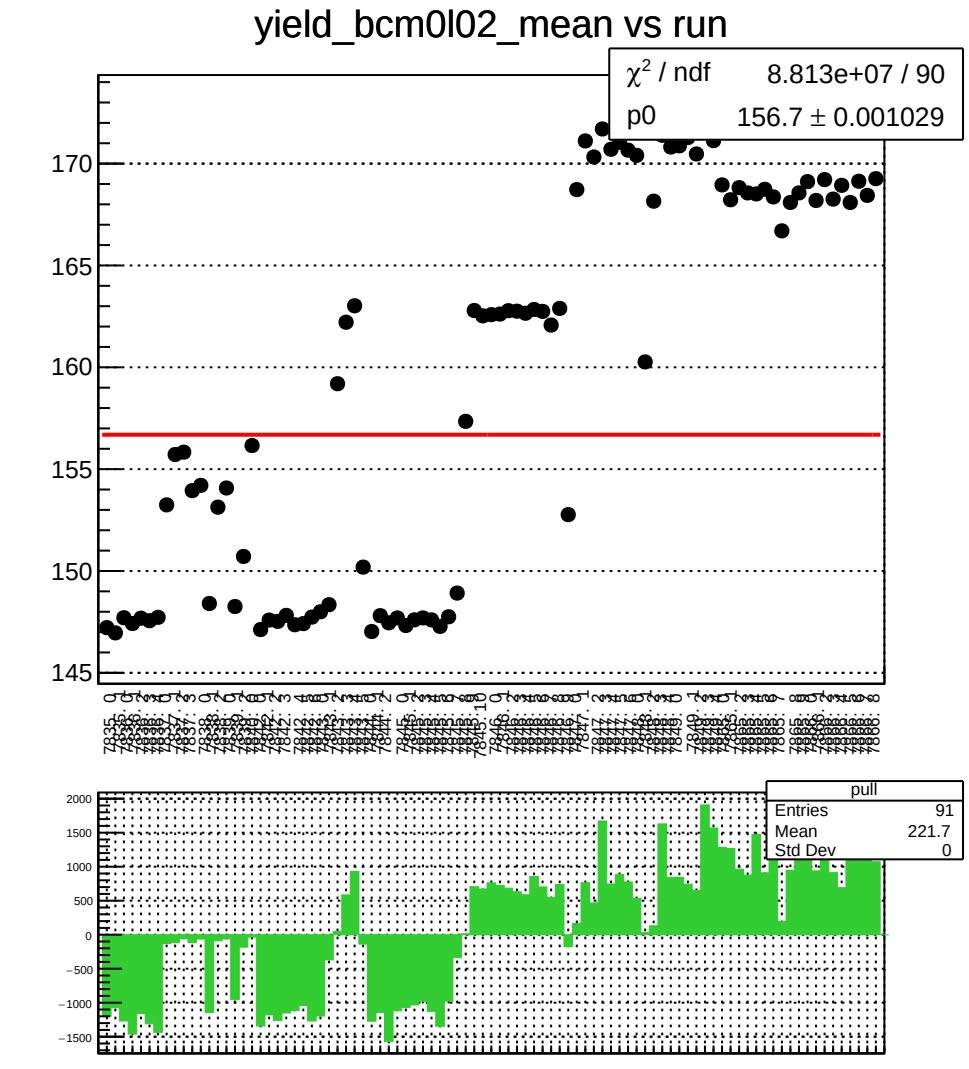

pull1D
Entries 91
Mean 1.907
Std Dev 3.782
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

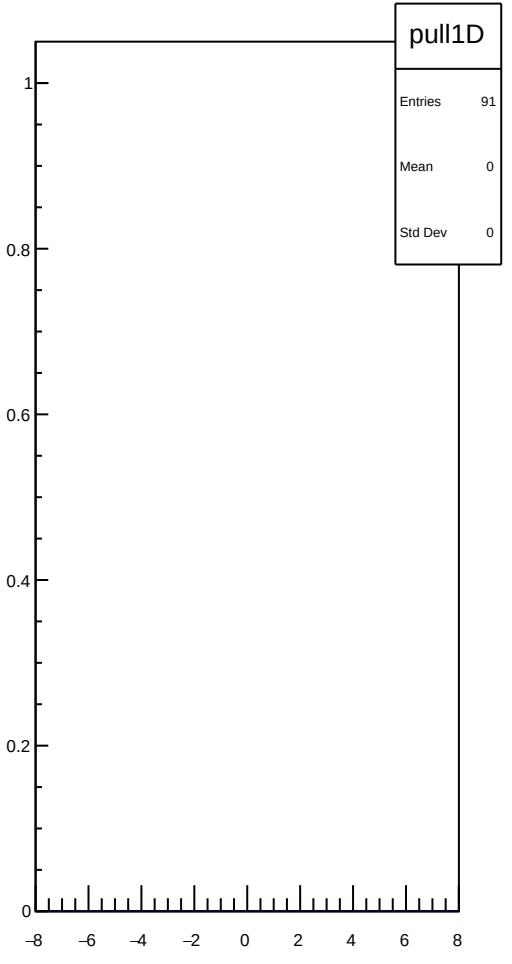

yield_cav4cQ_rms vs run
χ² / ndf 2.297e+05 / 90
p0 0.8169 ± 0.0006614
2.5
2
1.5
1
0.5


yield_cav4dQ_mean vs run
χ² / ndf 3.314e+05 / 90
p0 144.4 ± 0.0006237
145
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
143.2
pull
Entries 91
Mean 808.7
Std Dev 0
100
50
0
−50
−100
−150
−200

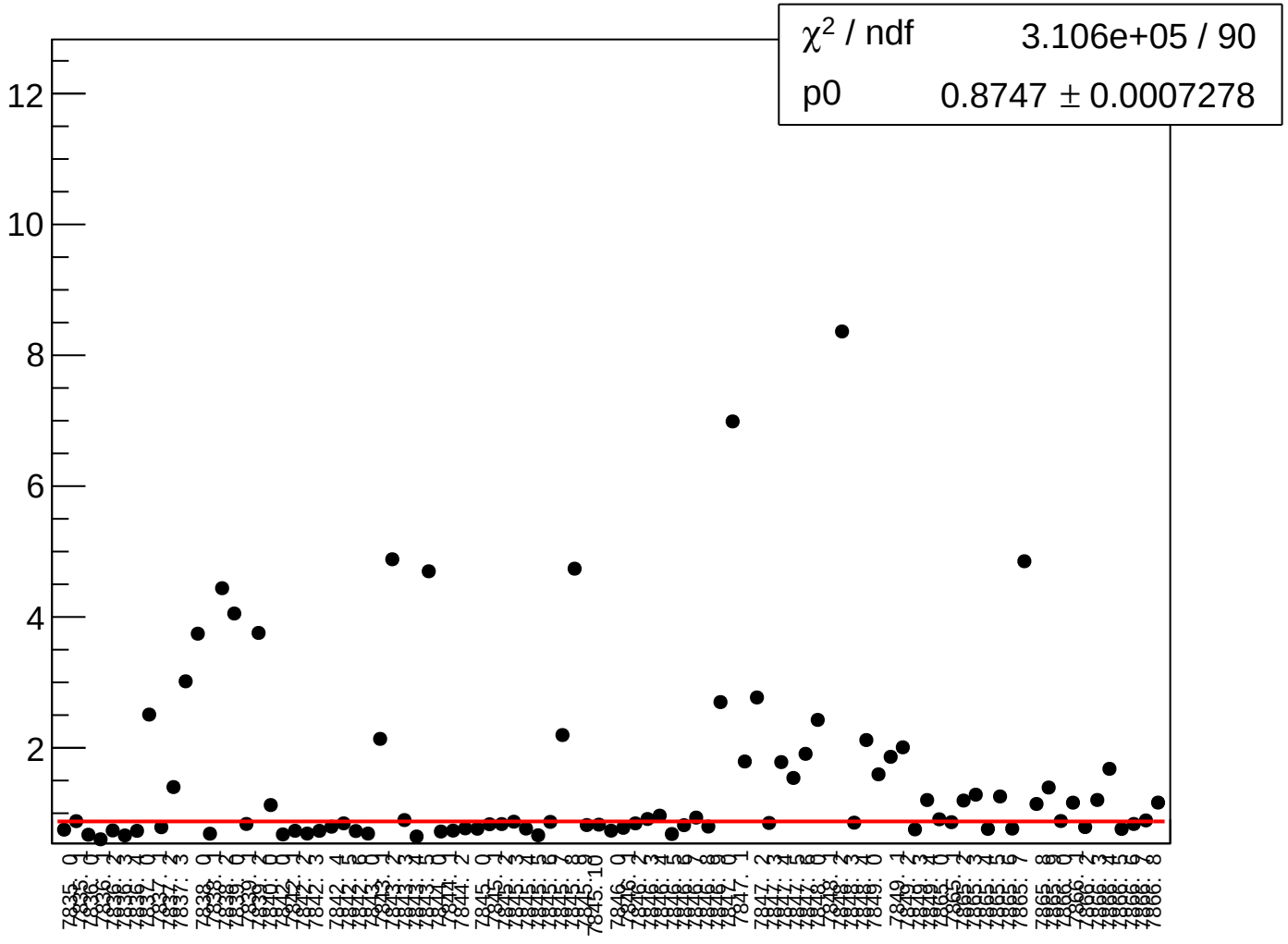

pull1D
Entries 91
Mean 0.3778
Std Dev 4.387
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

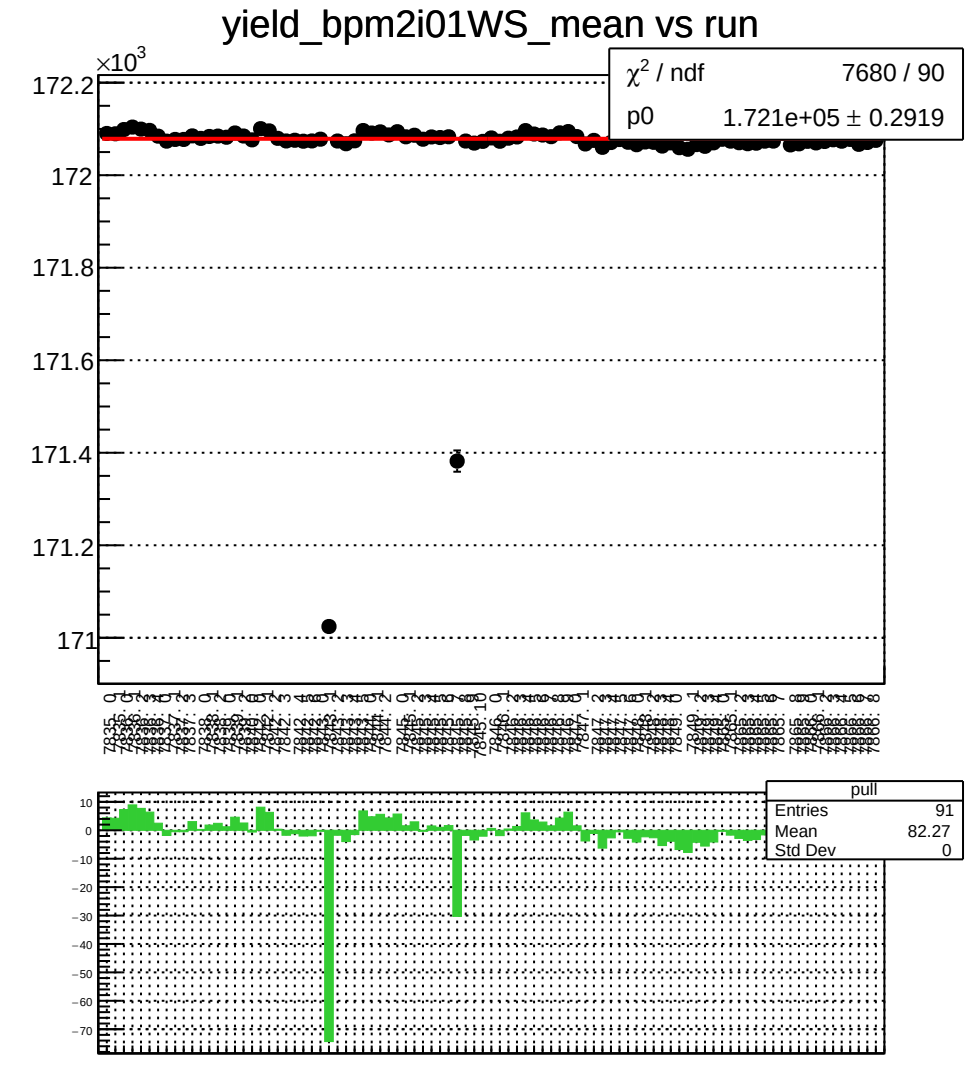

yield_cav4dQ_rms vs run
χ^2 / ndf 9783 / 90
p0 0.5826 ± 0.000441
0.75
0.7
0.65
0.6
0.55
0.5

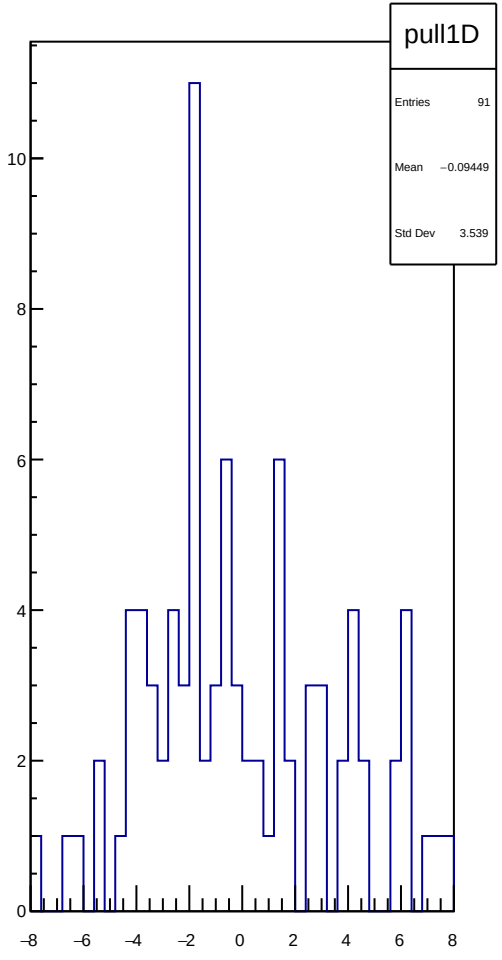

yield_bcm0l02_mean vs run
χ² / ndf 8.813e+07 / 90
p0 156.7 ± 0.001029
170
165
160
155
150
145
pull
Entries 91
Mean 221.7
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

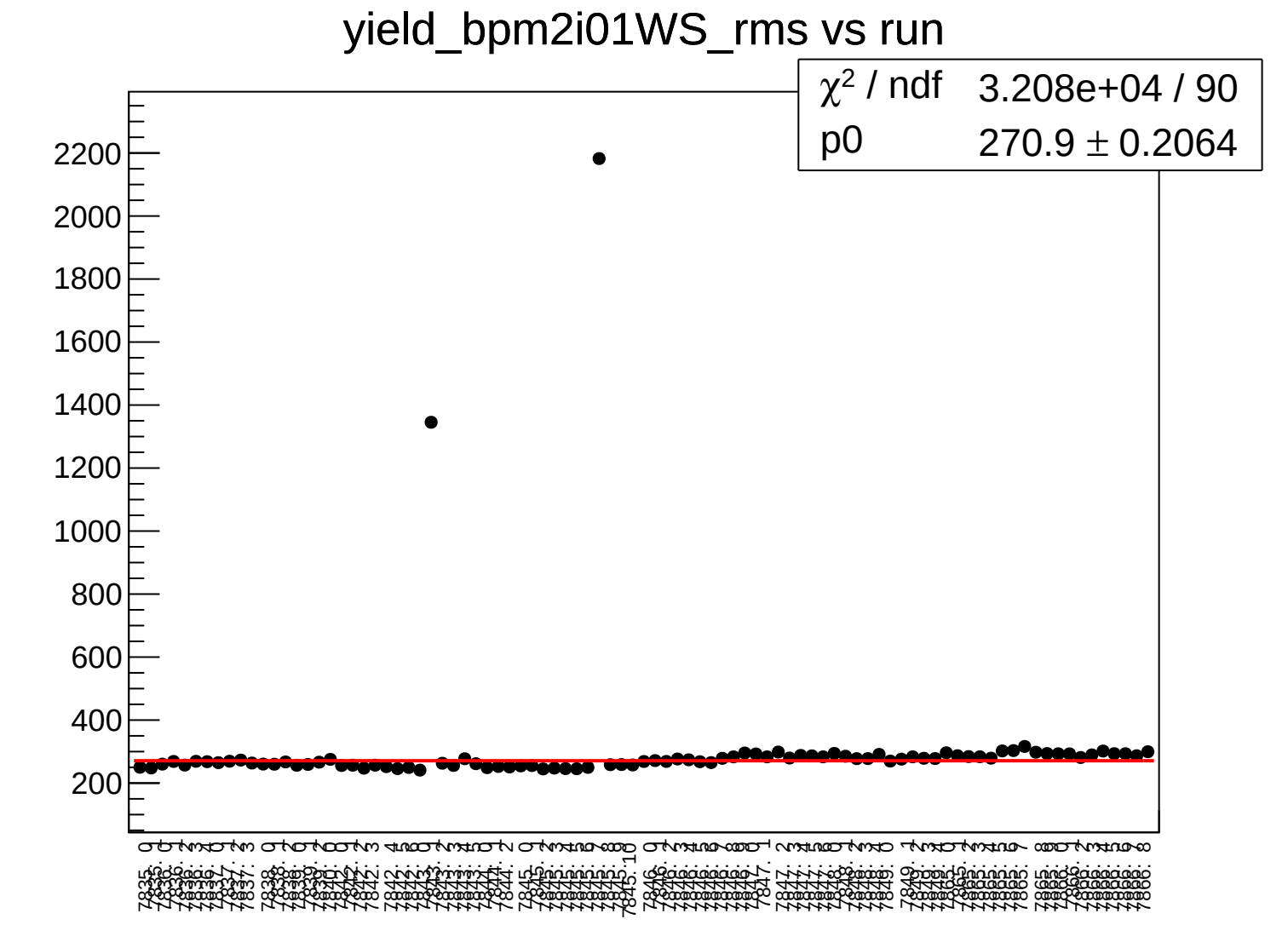

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

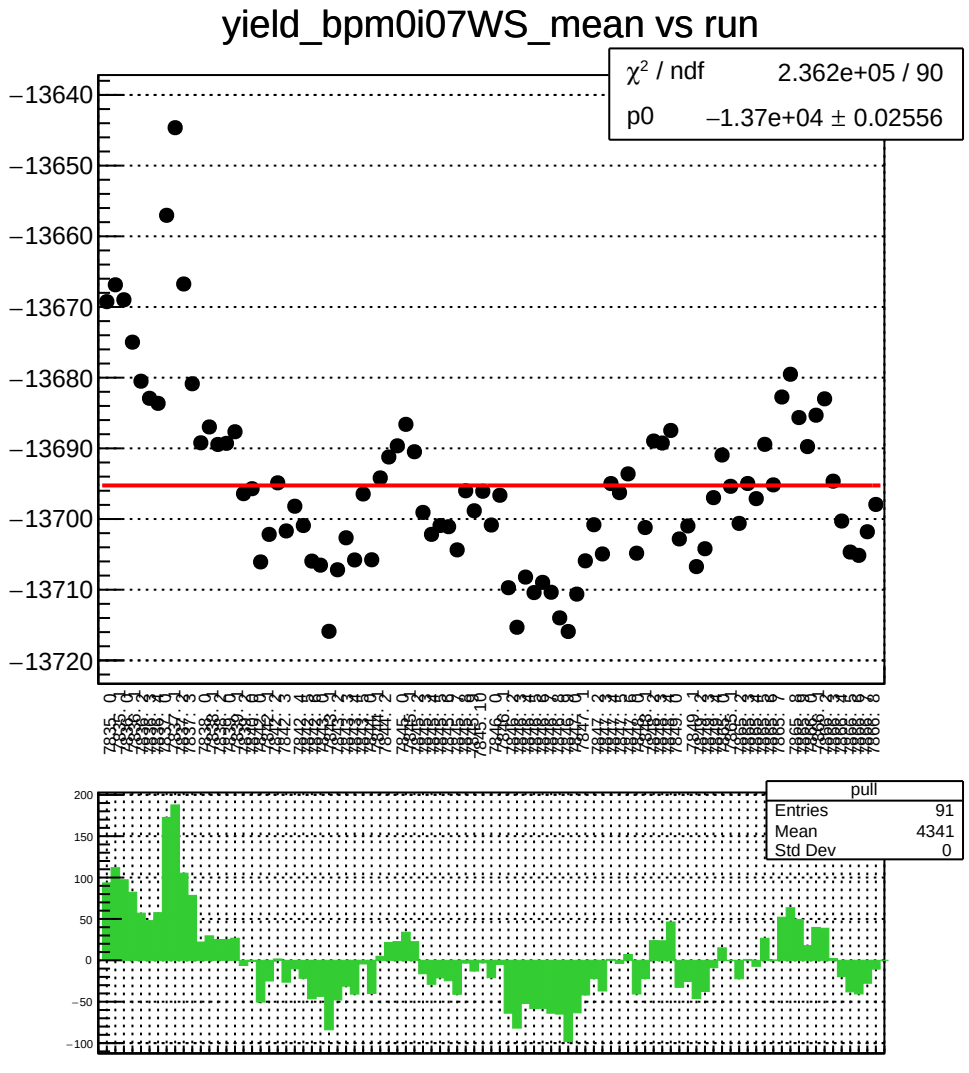
yield_bcm0l02_rms vs run

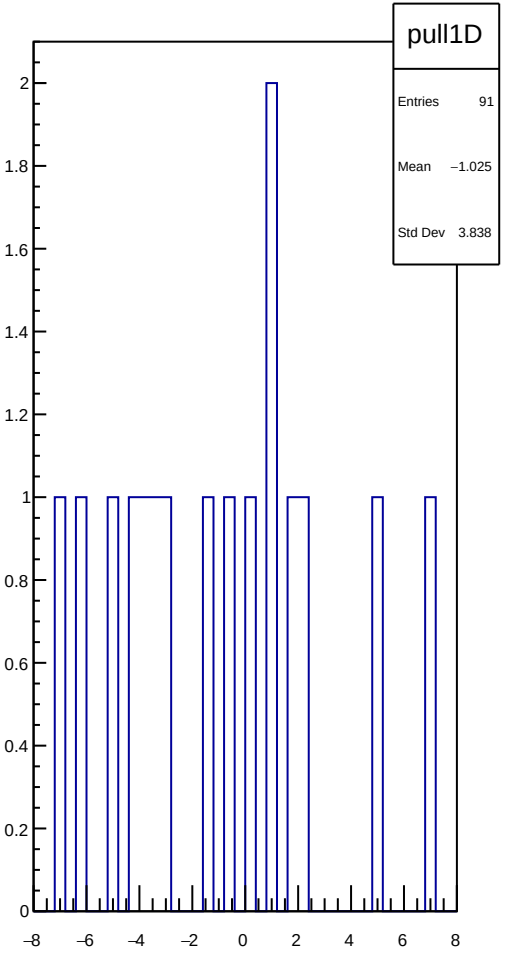


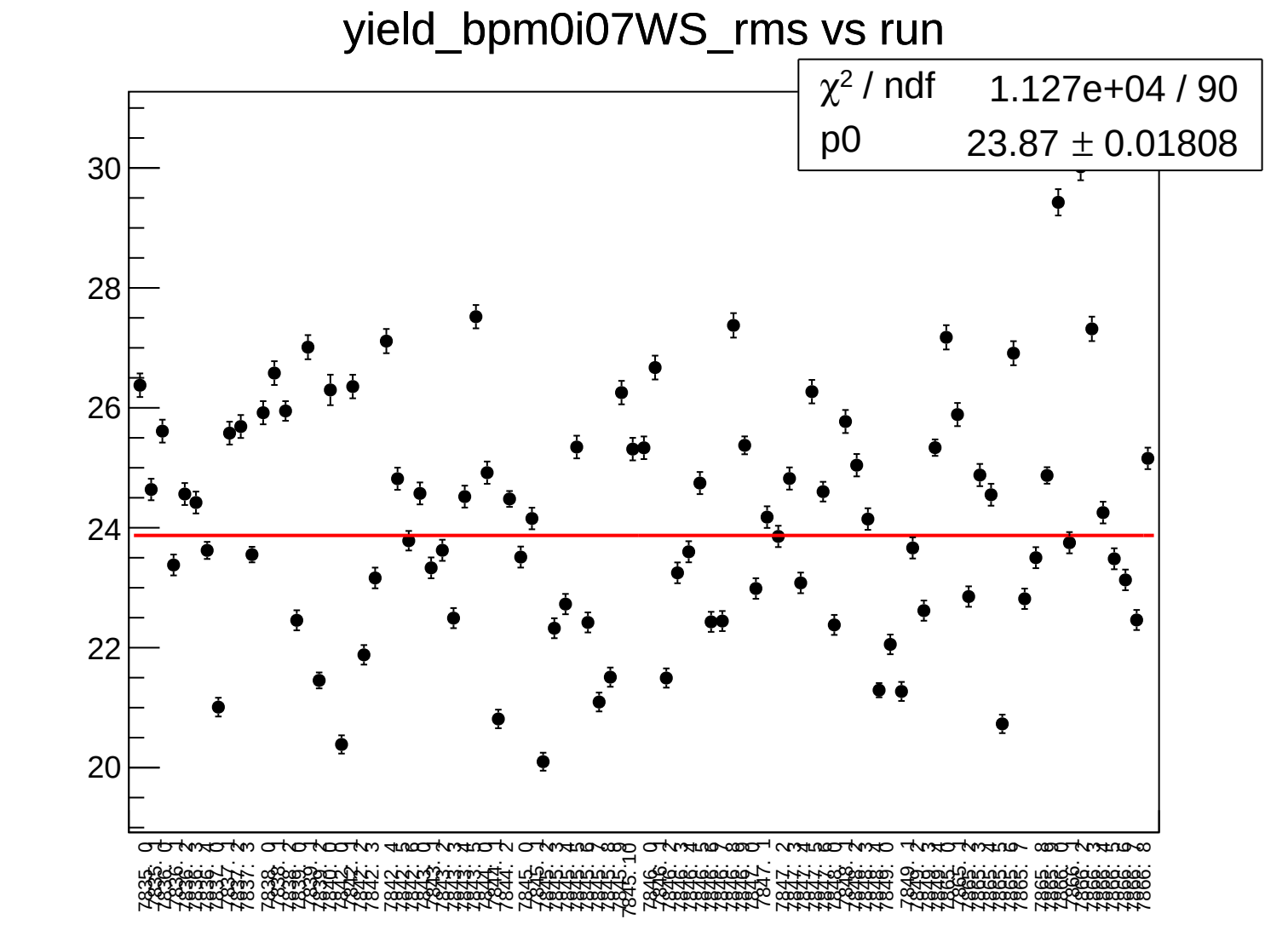

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7680 / 90
p0 1.721e+05 ± 0.2919
172.2
172
171.8
171.6
171.4
171.2
171
pull
Entries 91
Mean 82.27
Std Dev 0
10
0
−10
−20
−30
−40
−50
−60
−70

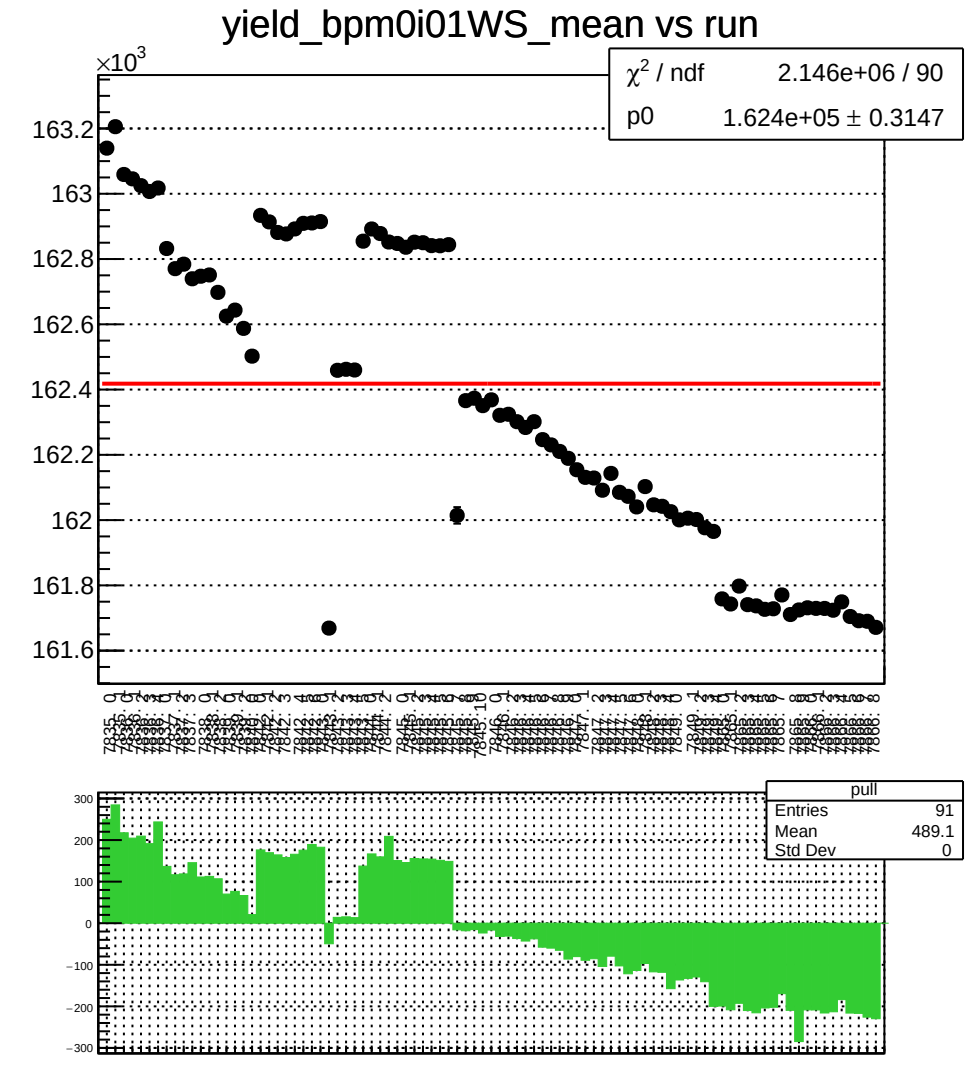

pull1D
Entries 91
Mean −0.09449
Std Dev 3.539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

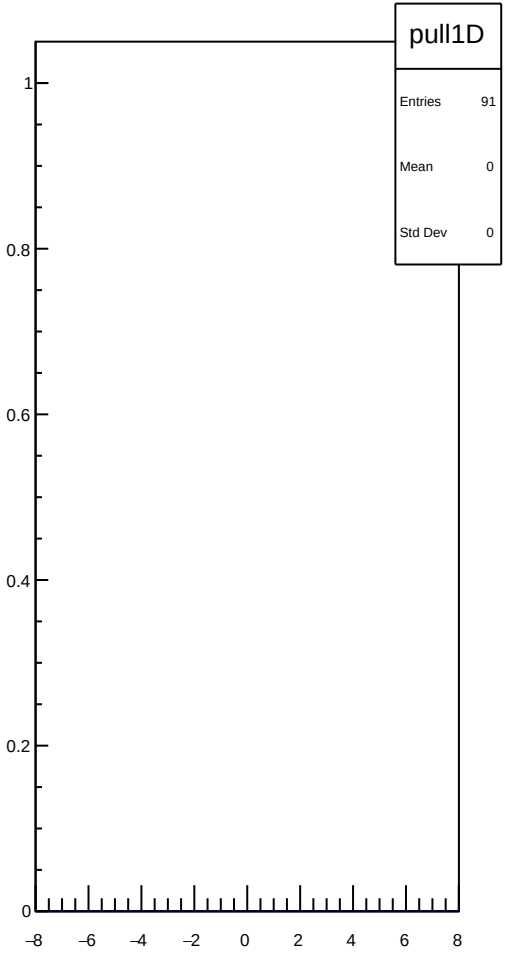

yield_bpm2i01WS_rms vs run
χ² / ndf 3.208e+04 / 90
p0 270.9 ± 0.2064
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

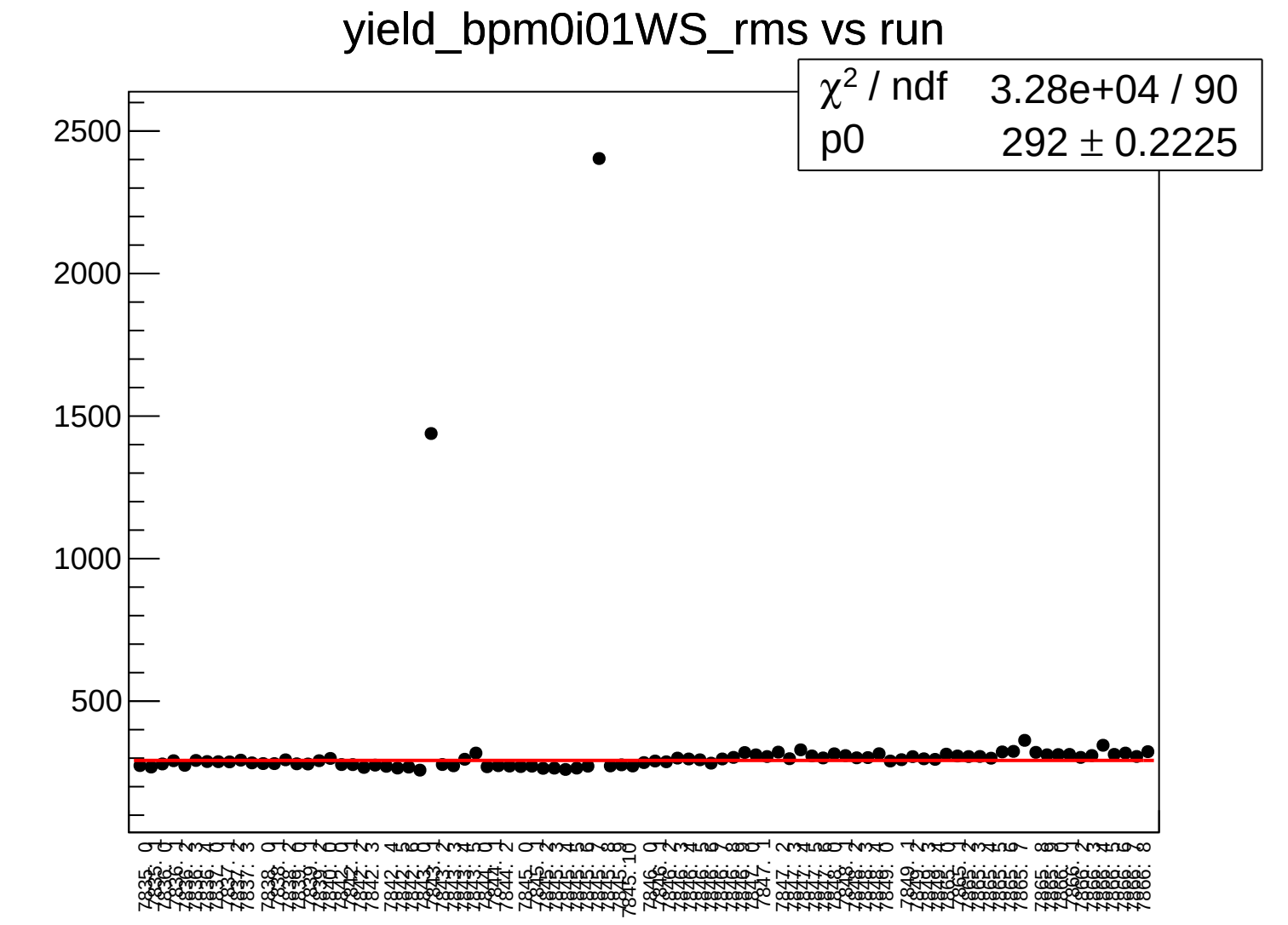

yield_bpm0i07WS_mean vs run
χ² / ndf 2.362e+05 / 90
p0 −1.37e+04 ± 0.02556
−13640
−13650
−13660
−13670
−13680
−13690
−13700
−13710
−13720
pull
Entries 91
Mean 4341
Std Dev 0
200
150
100
50
0
−50
−100

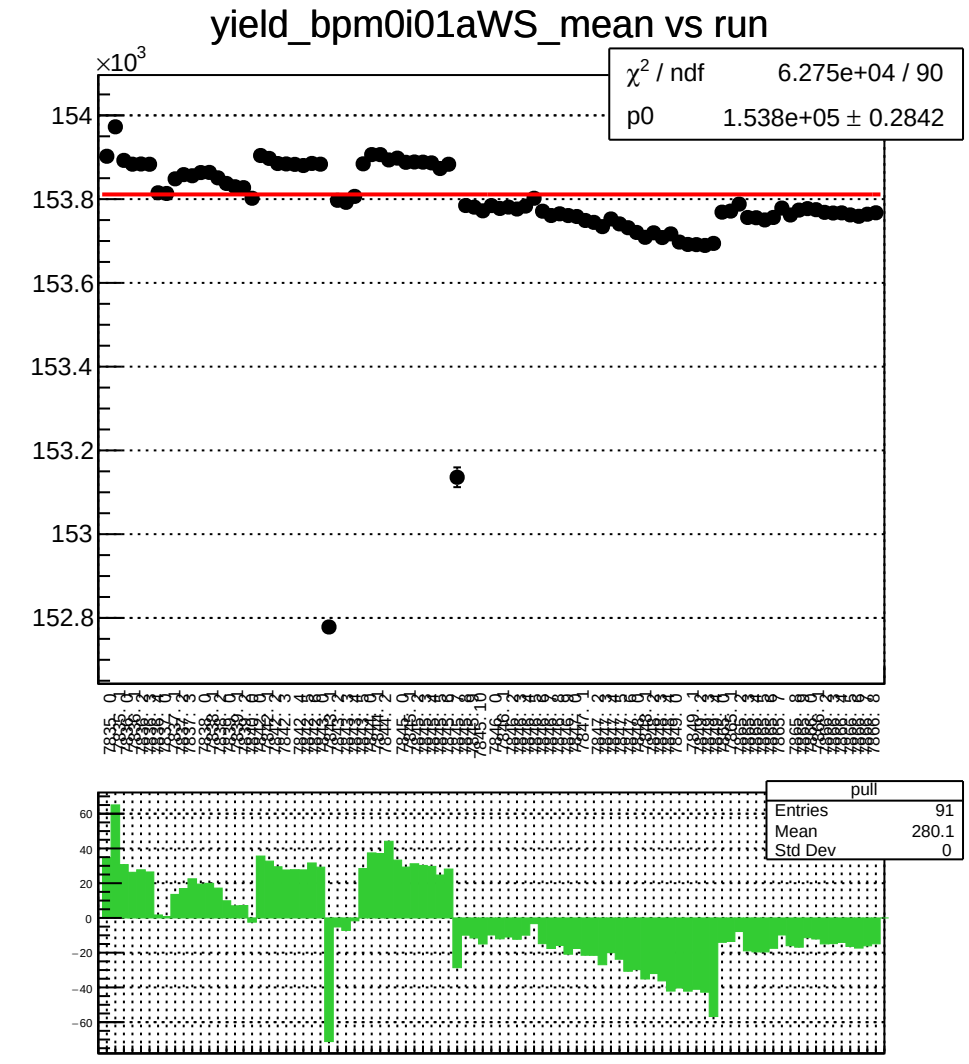

pull1D
Entries 91
Mean −1.025
Std Dev 3.838
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

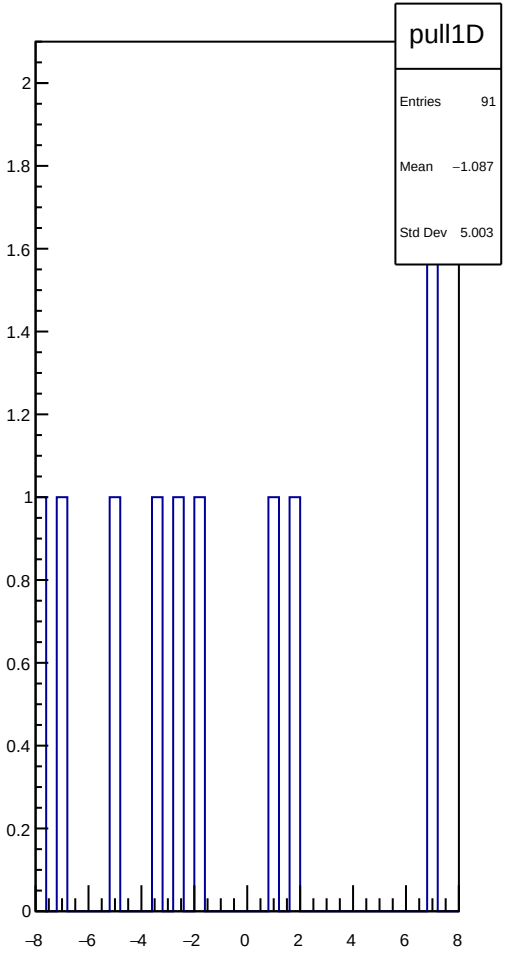

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.127e+04 / 90
p0 23.87 ± 0.01808
30
28
26
24
22
20

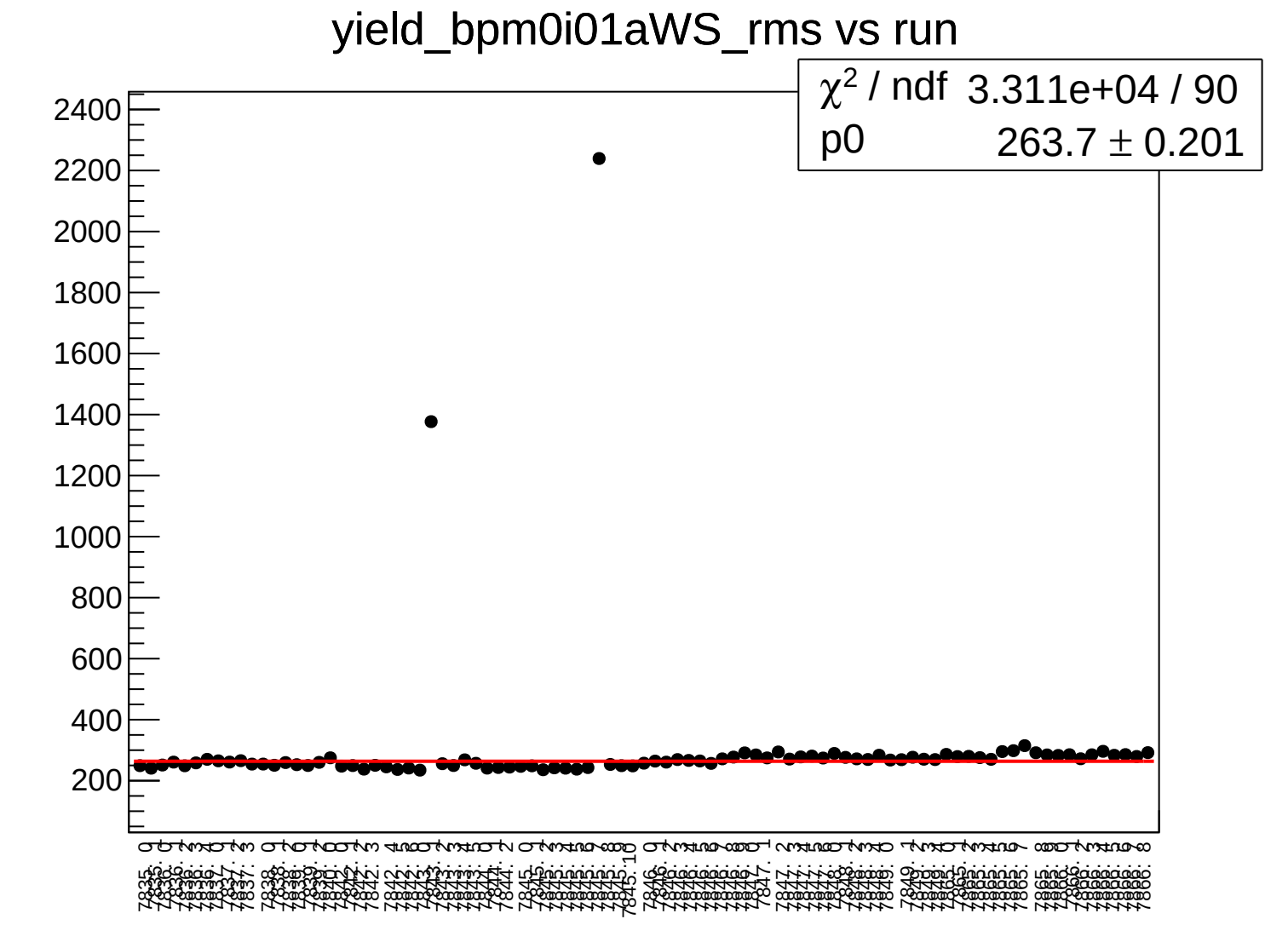

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.146e+06 / 90
p0 1.624e+05 ± 0.3147
163.2
163
162.8
162.6
162.4
162.2
162
161.8
161.6
pull
Entries 91
Mean 489.1
Std Dev 0
300
200
100
0
−100
−200
−300

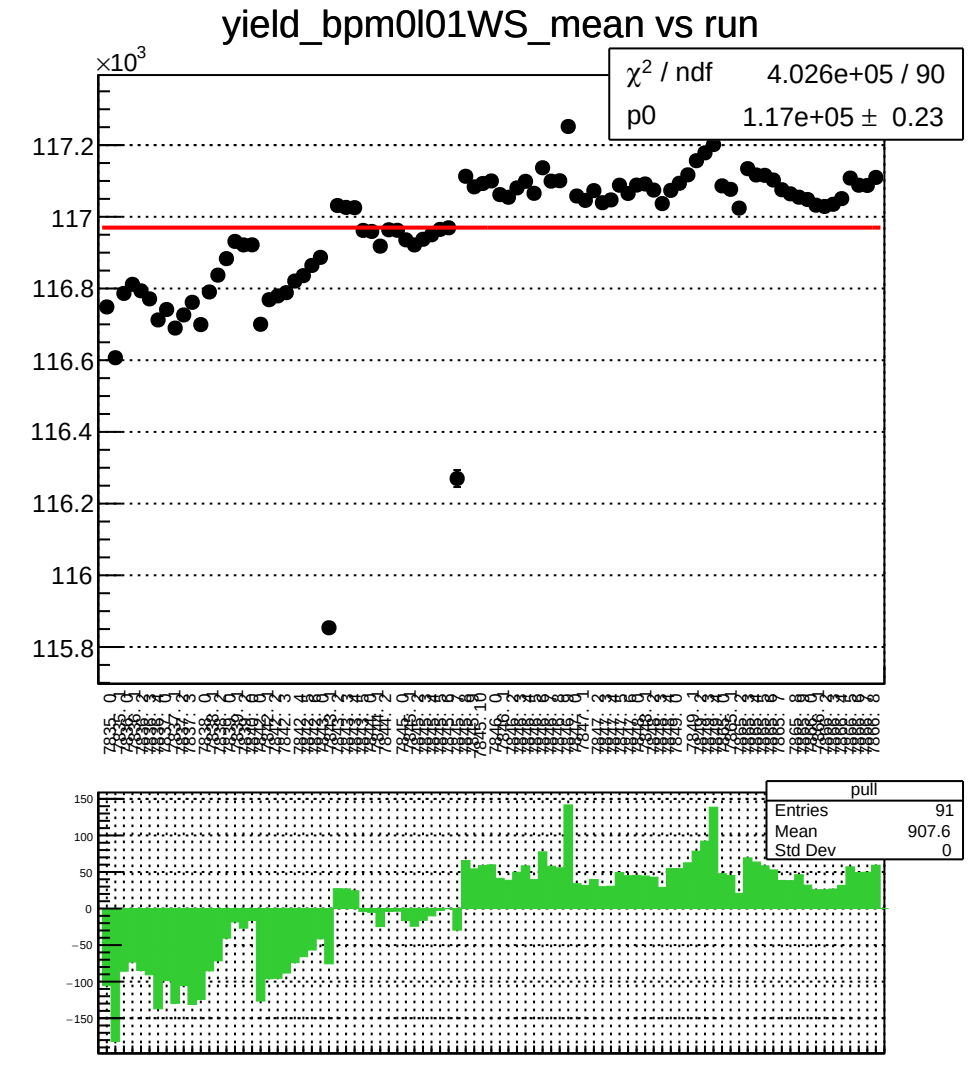

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

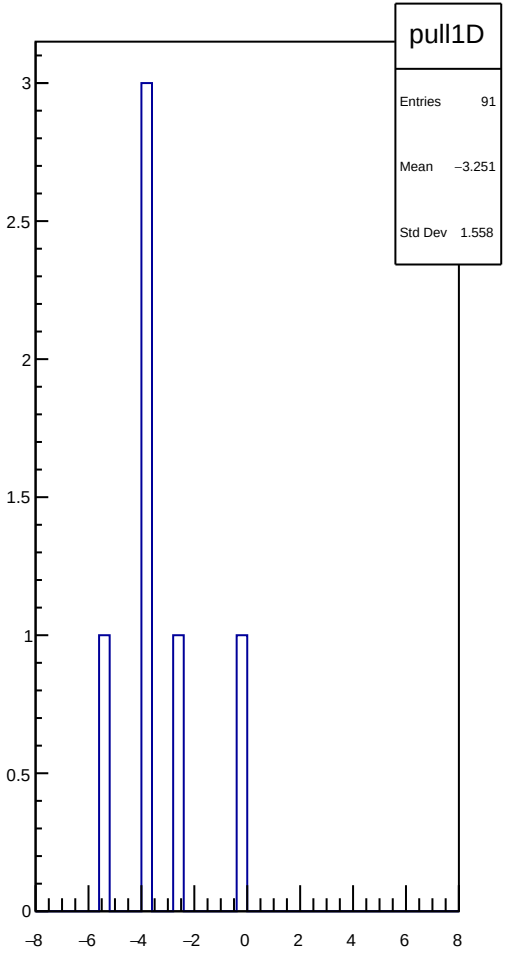

yield_bpm0i01WS_rms vs run
χ² / ndf 3.28e+04 / 90
p0 292 ± 0.2225
2500
2000
1500
1000
500

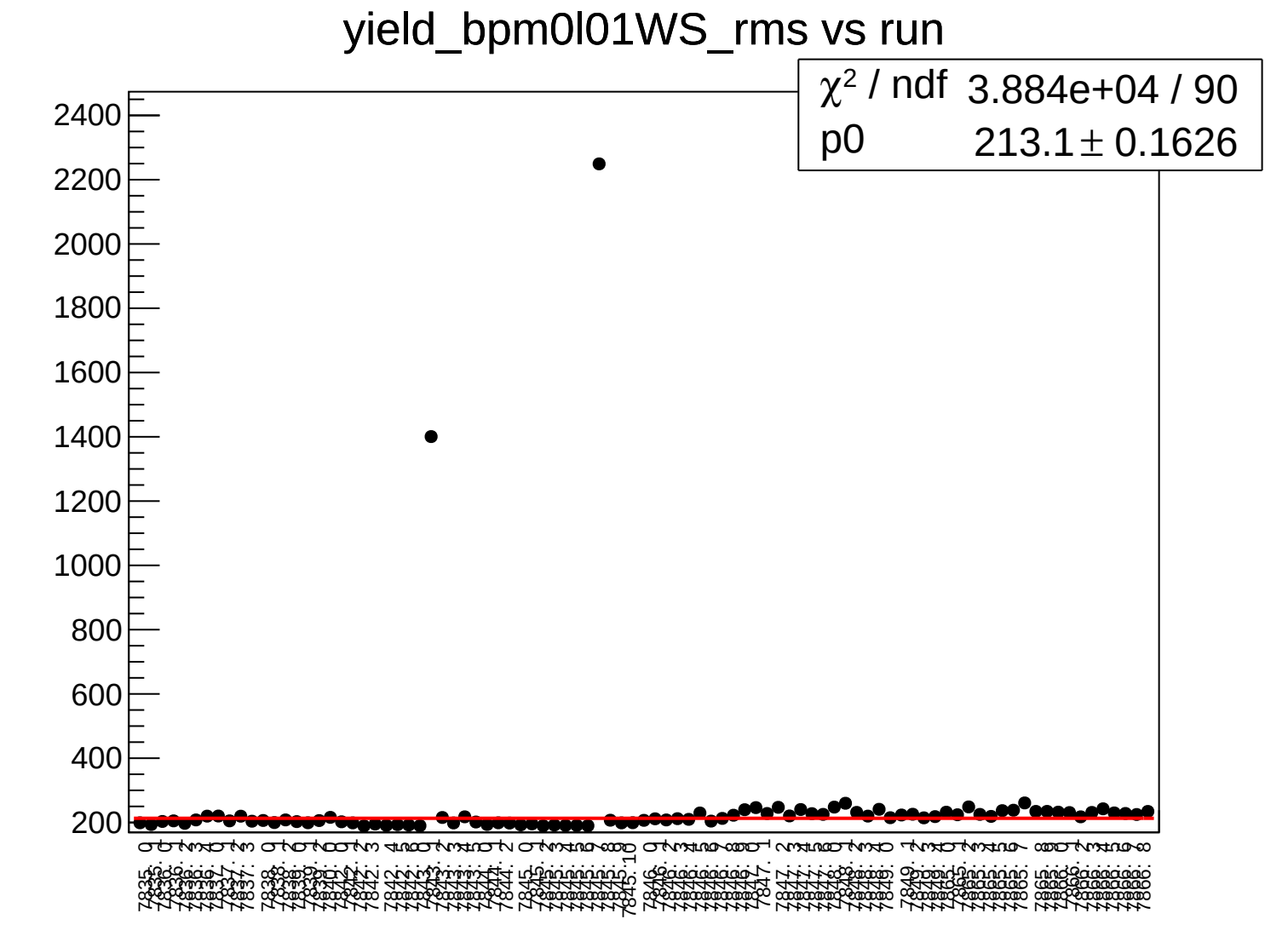

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 6.275e+04 / 90
p0 1.538e+05 ± 0.2842
154
153.8
153.6
153.4
153.2
153
152.8
pull
Entries 91
Mean 280.1
Std Dev 0
60
40
20
0
−20
−40
−60

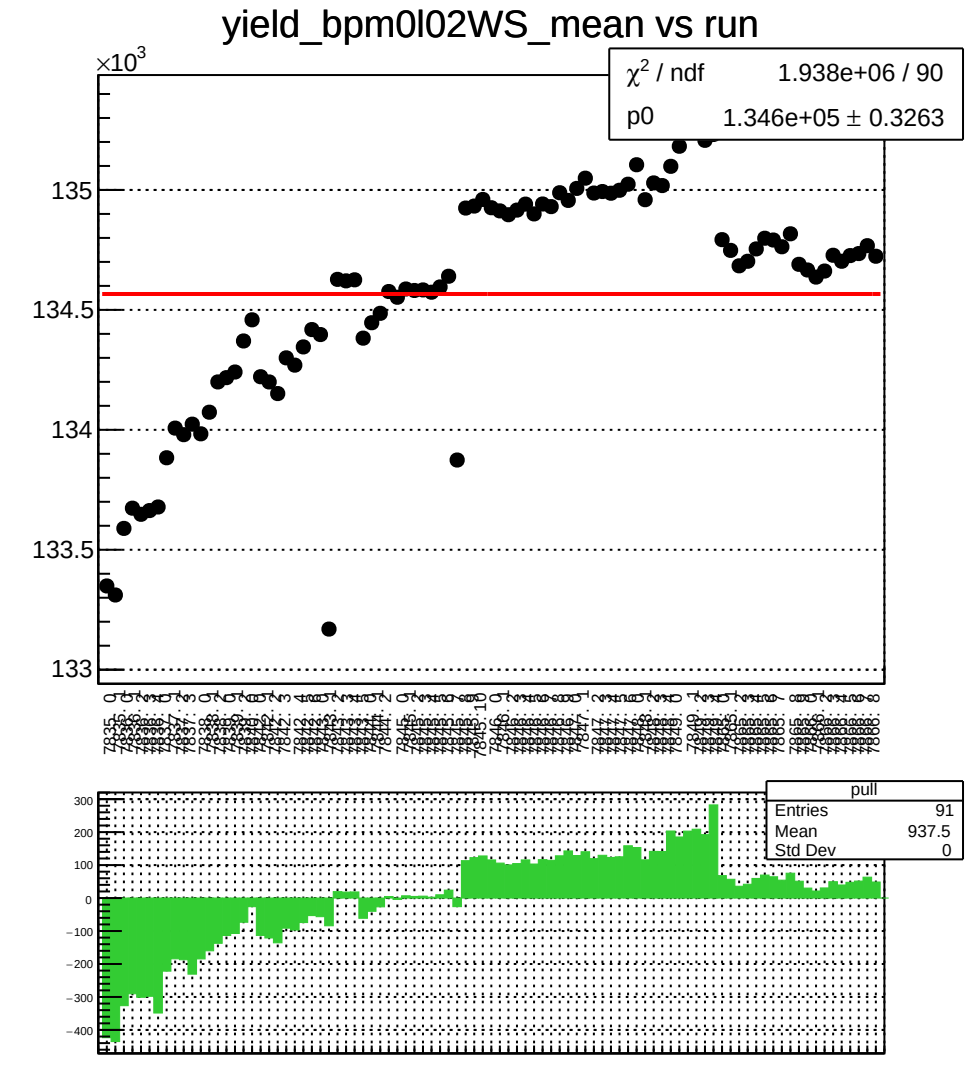

pull1D
Entries 91
Mean −1.087
Std Dev 5.003
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

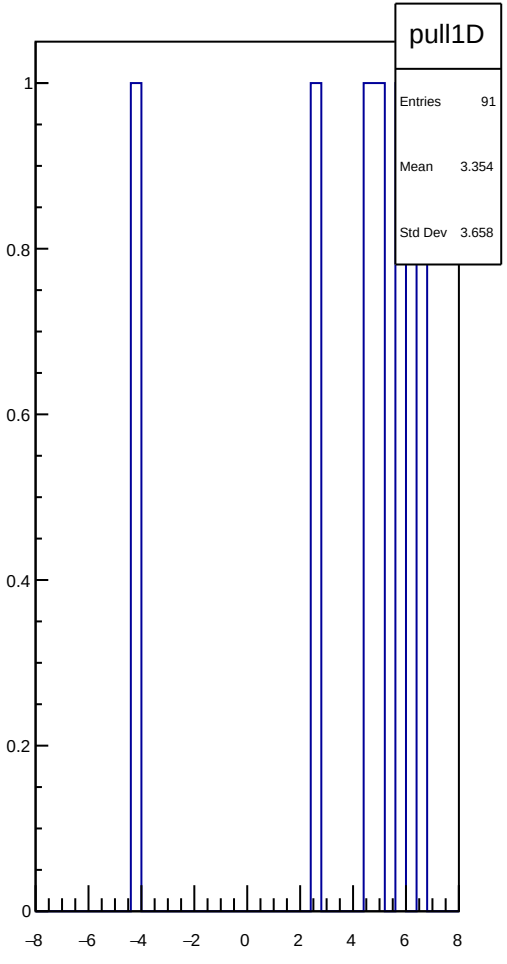

yield_bpm0i01aWS_rms vs run
χ² / ndf 3.311e+04 / 90
p0 263.7 ± 0.201
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

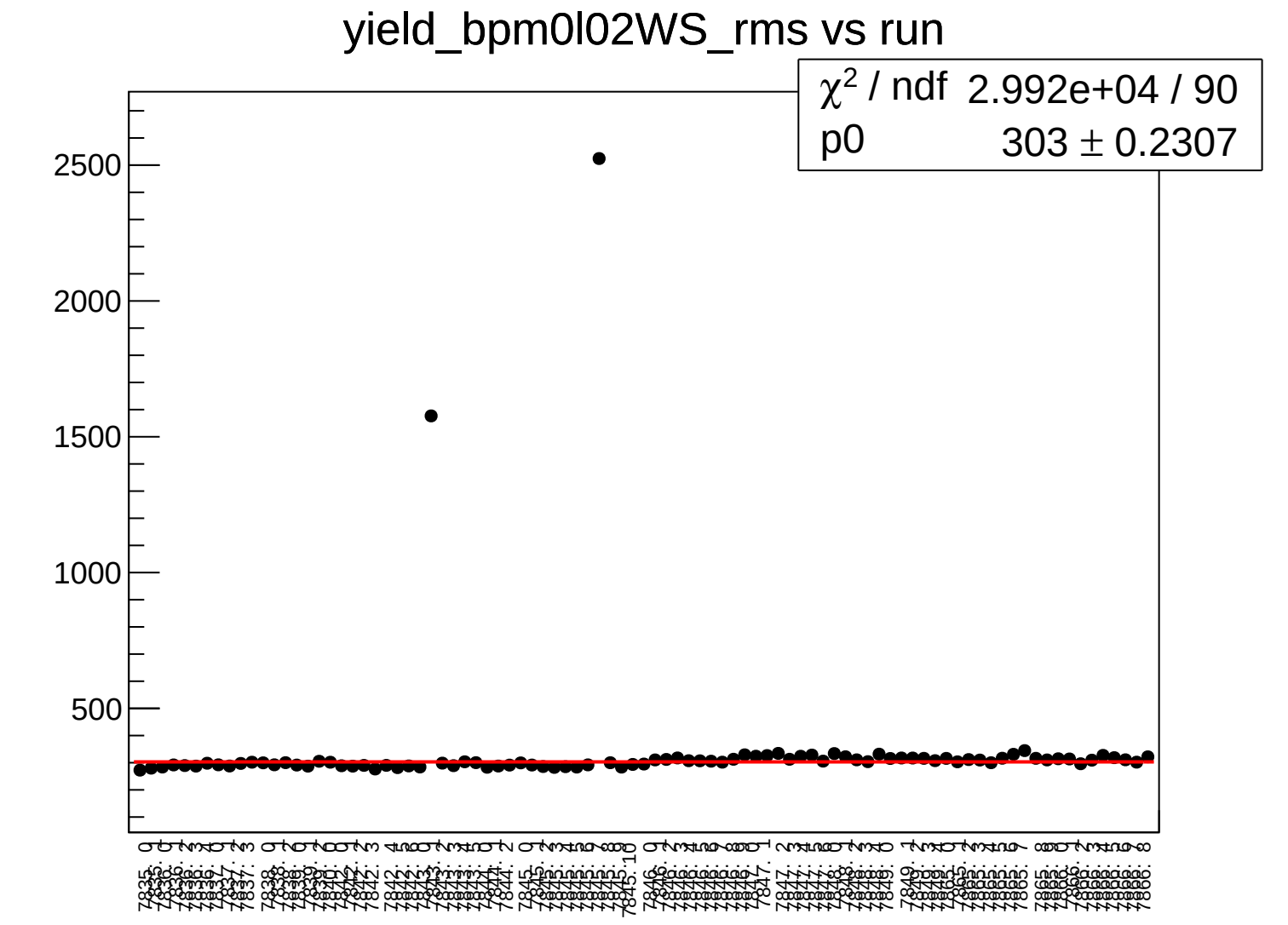

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.026e+05 / 90
p0 1.17e+05 ± 0.23
117.2
117
116.8
116.6
116.4
116.2
116
115.8
pull
Entries 91
Mean 907.6
Std Dev 0
150
100
50
0
−50
−100
−150

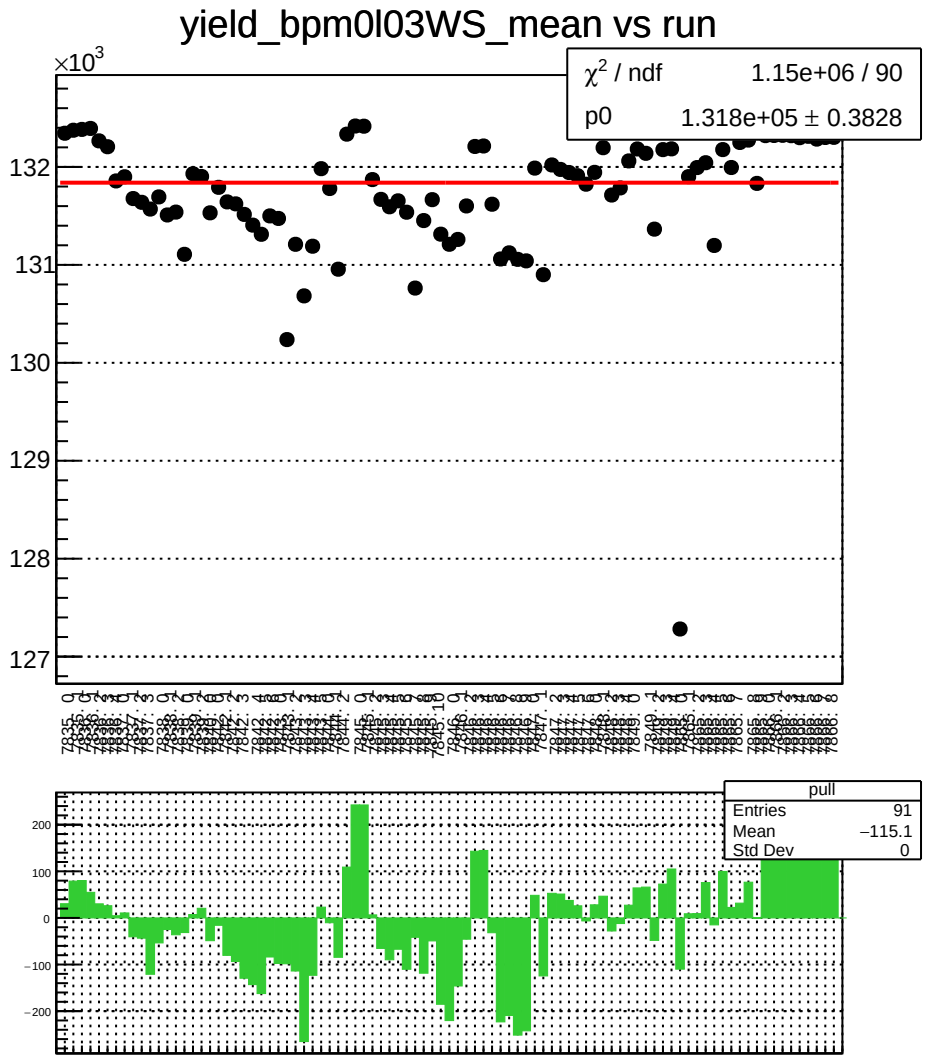

pull1D
Entries 91
Mean −3.251
Std Dev 1.558
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

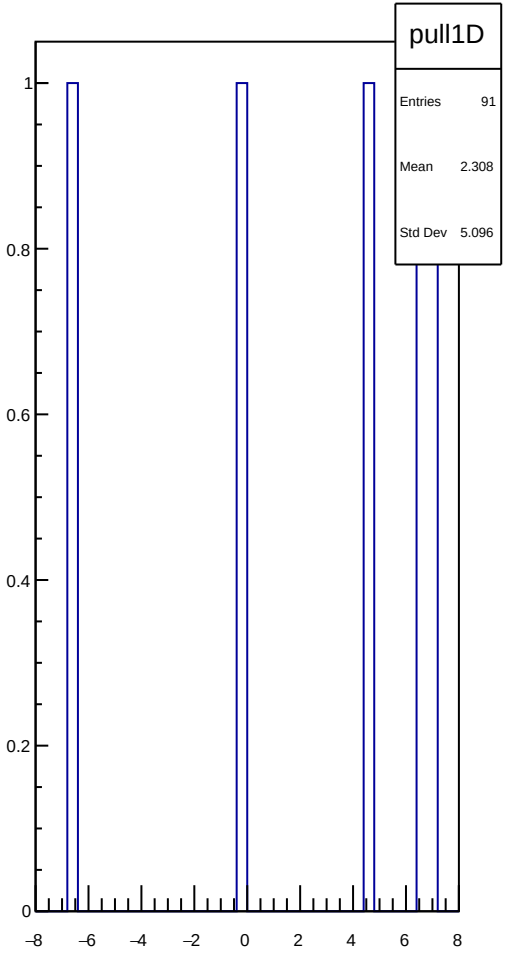

yield_bpm0l01WS_rms vs run
χ² / ndf 3.884e+04 / 90
p0 213.1 ± 0.1626
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

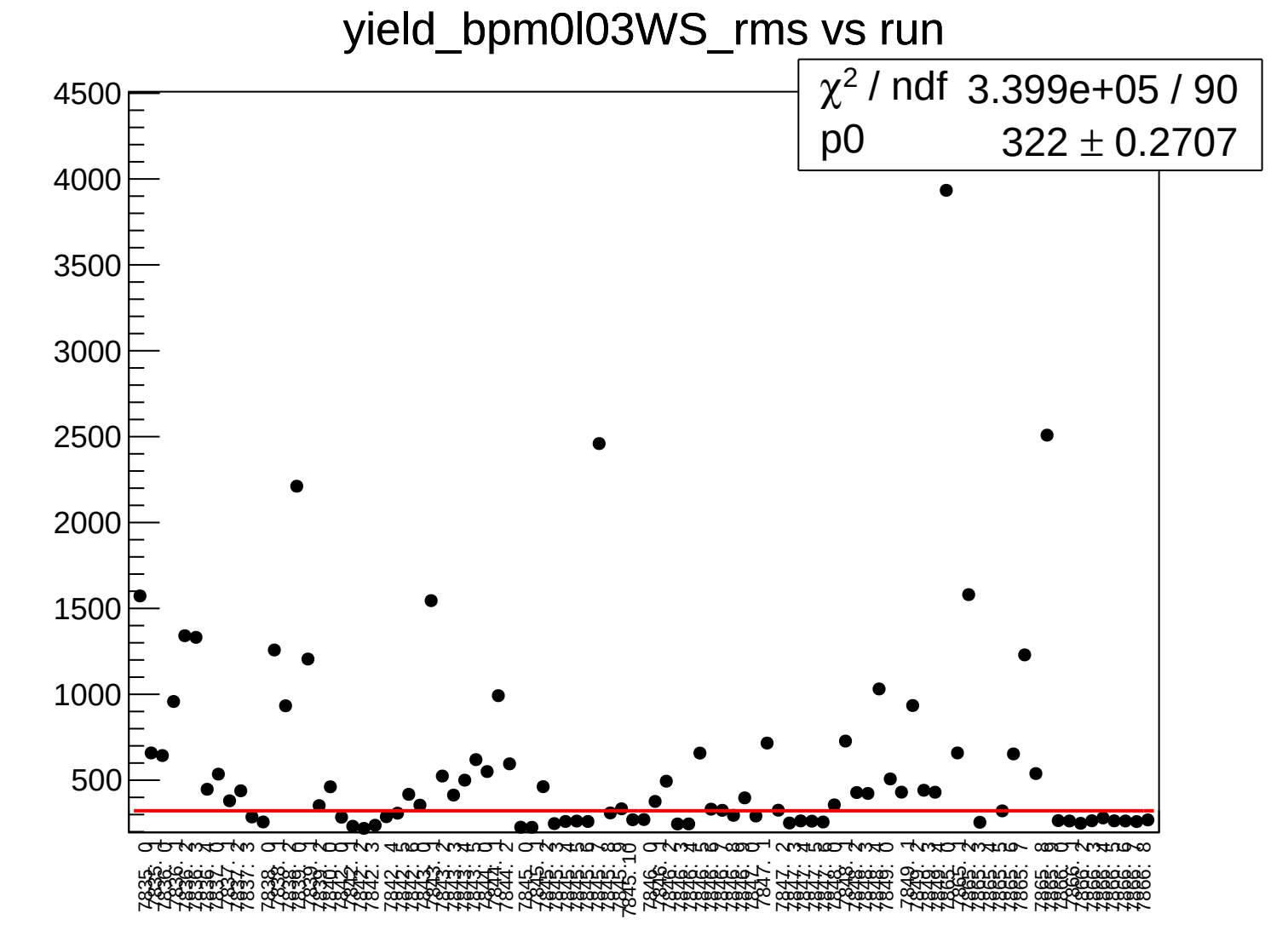

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.938e+06 / 90
p0 1.346e+05 ± 0.3263
135
134.5
134
133.5
133
pull
Entries 91
Mean 937.5
Std Dev 0
300
200
100
0
−100
−200
−300
−400

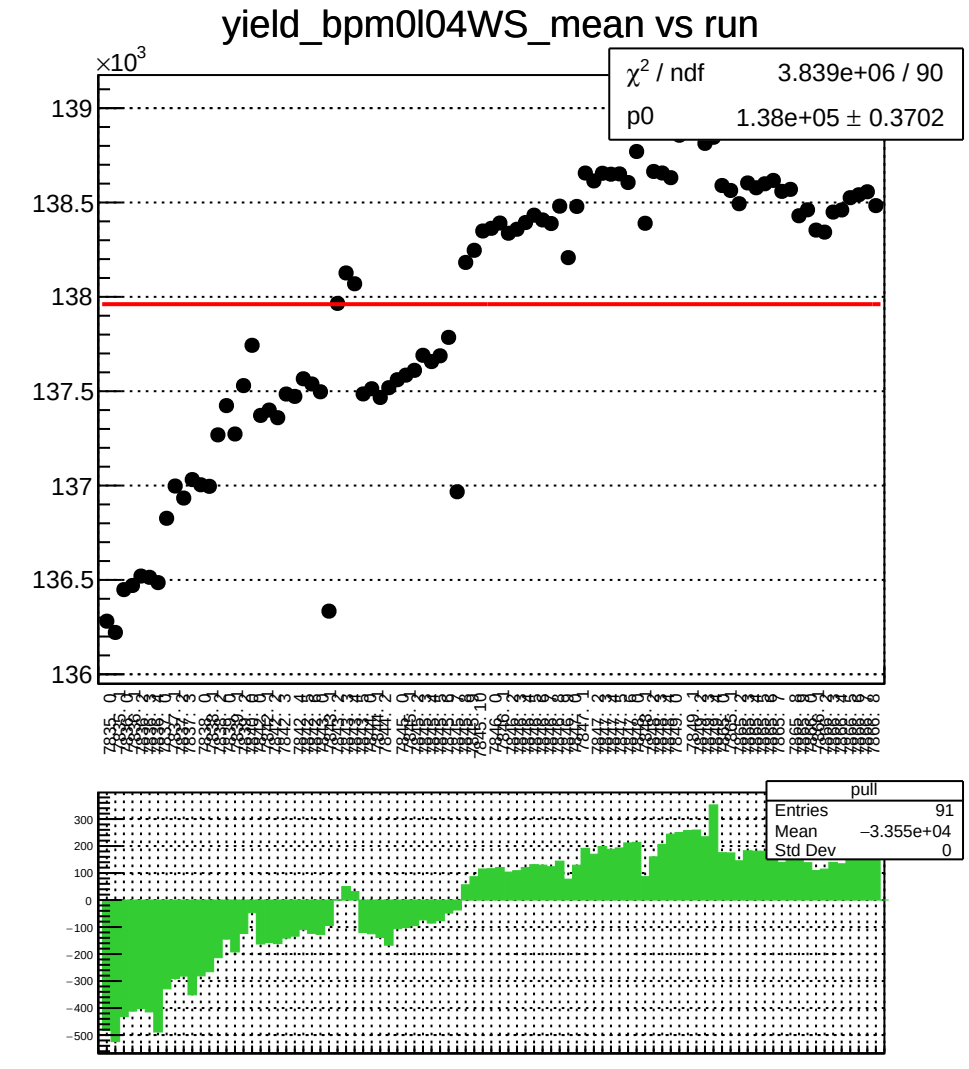

pull1D
Entries 91
Mean 3.354
Std Dev 3.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

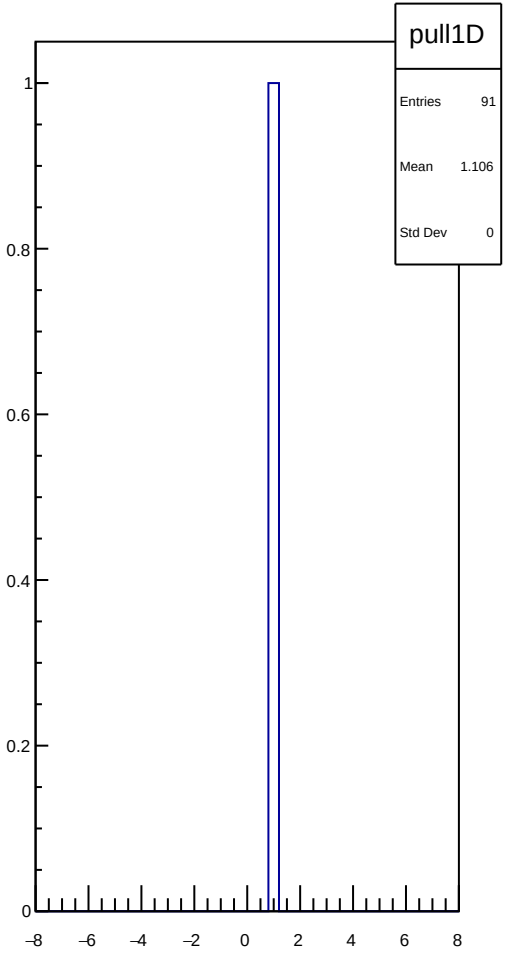

yield_bpm0l02WS_rms vs run
χ² / ndf 2.992e+04 / 90
p0 303 ± 0.2307
2500
2000
1500
1000
500

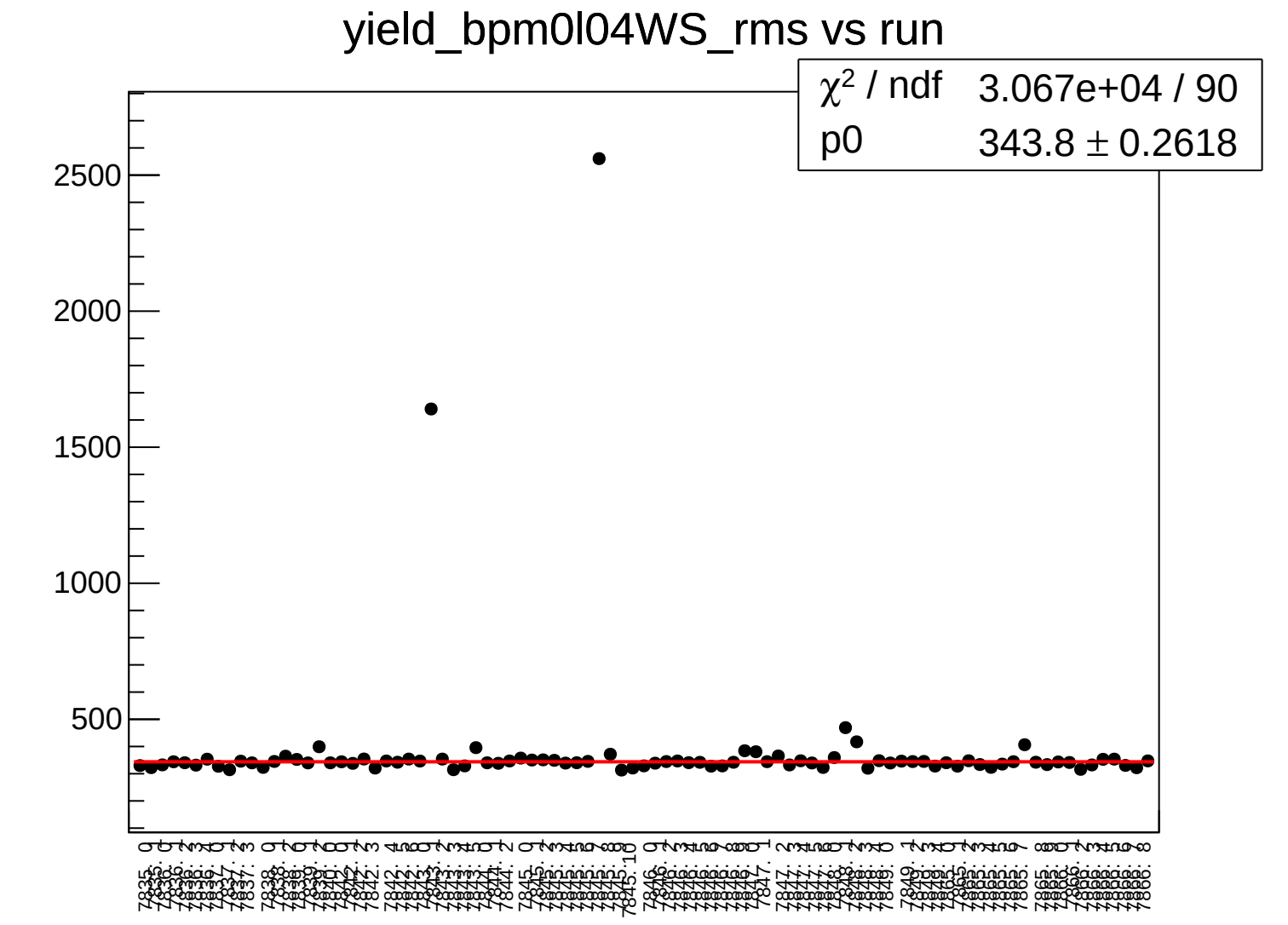

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 1.15e+06 / 90
p0 1.318e+05 ± 0.3828
132
131
130
129
128
127
pull
Entries 91
Mean −115.1
Std Dev 0
200
100
0
−100
−200

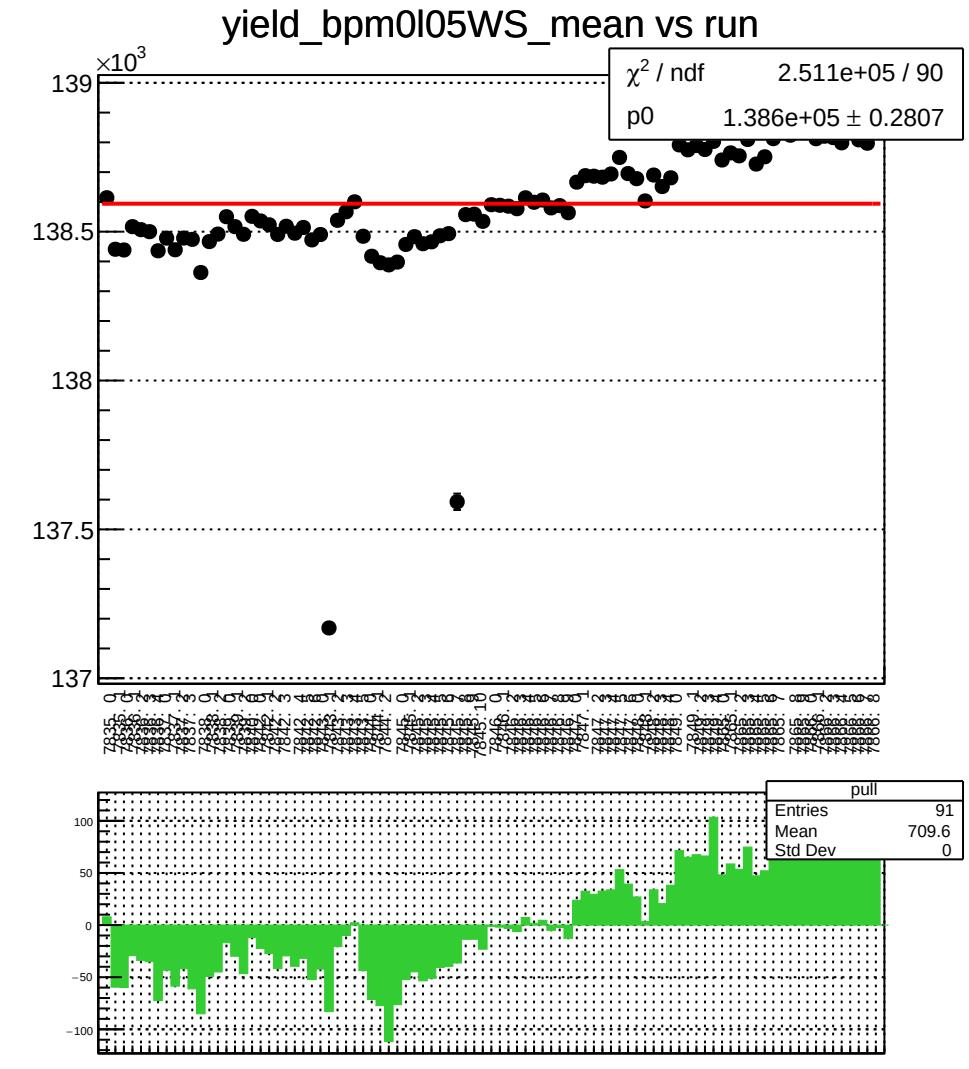

pull1D
Entries 91
Mean 2.308
Std Dev 5.096
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

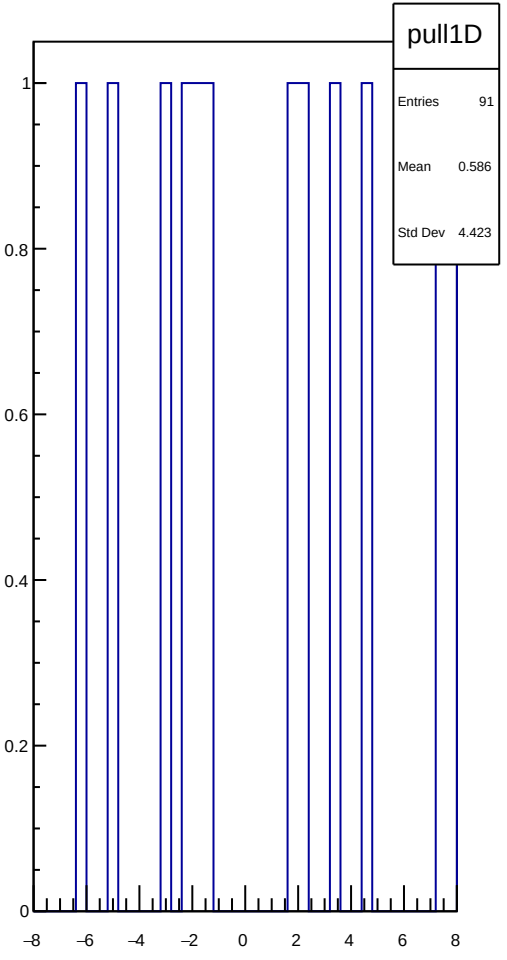

yield_bpm0l03WS_rms vs run
χ^2 / ndf 3.399e+05 / 90
p0 322 ± 0.2707
4500
4000
3500
3000
2500
2000
1500
1000
500

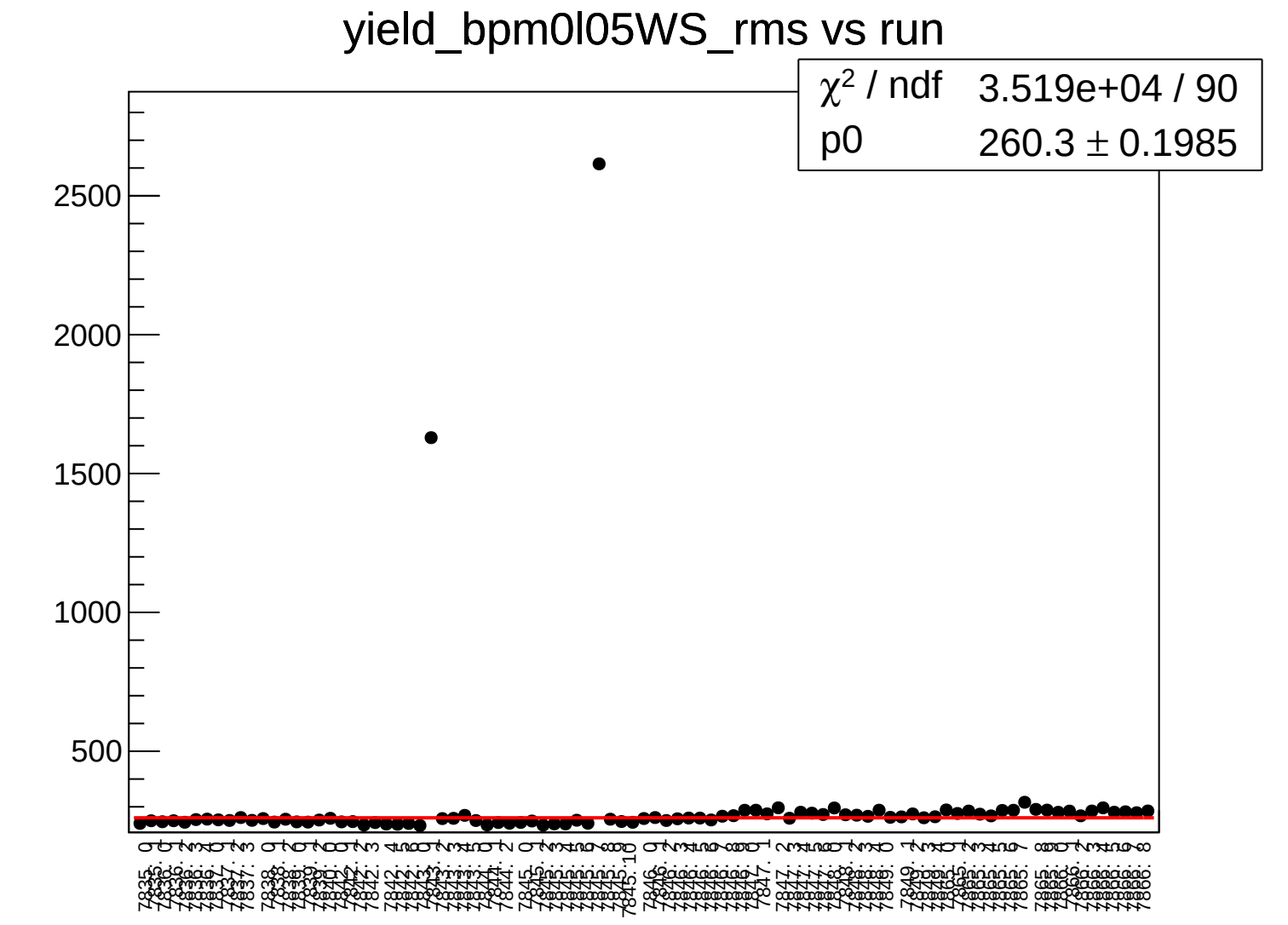

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.839e+06 / 90
p0 1.38e+05 ± 0.3702
139
138.5
138
137.5
137
136.5
136
pull
Entries 91
Mean −3.355e+04
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

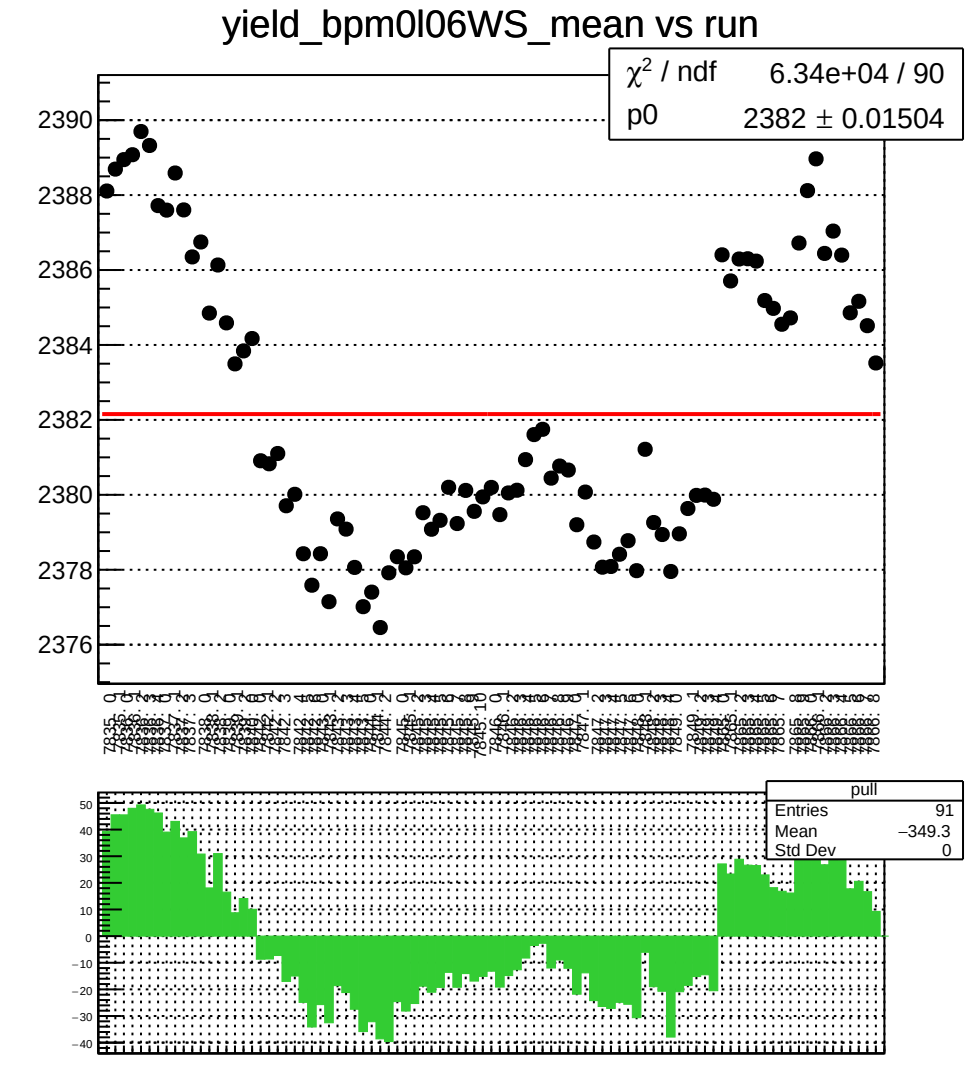

pull1D
Entries 91
Mean 1.106
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

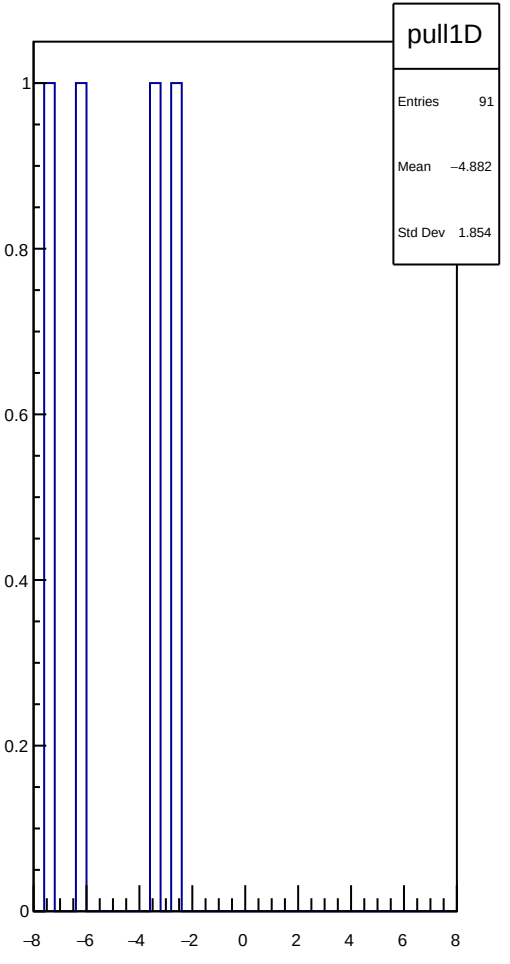

yield_bpm0l04WS_rms vs run
χ² / ndf 3.067e+04 / 90
p0 343.8 ± 0.2618
2500
2000
1500
1000
500

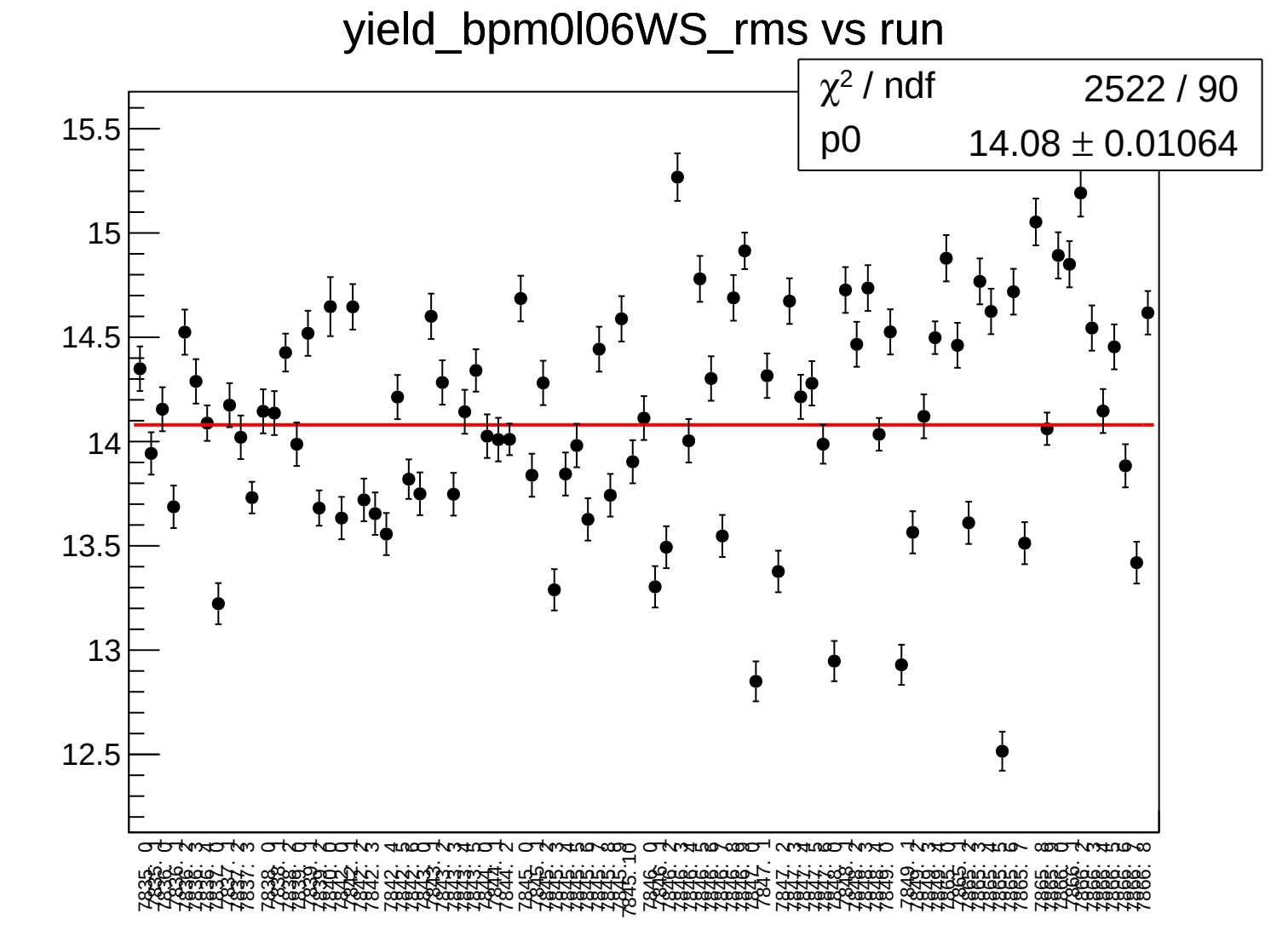

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.511e+05 / 90
p0 1.386e+05 ± 0.2807
139
138.5
138
137.5
137
pull
Entries 91
Mean 709.6
Std Dev 0
100
50
0
−50
−100

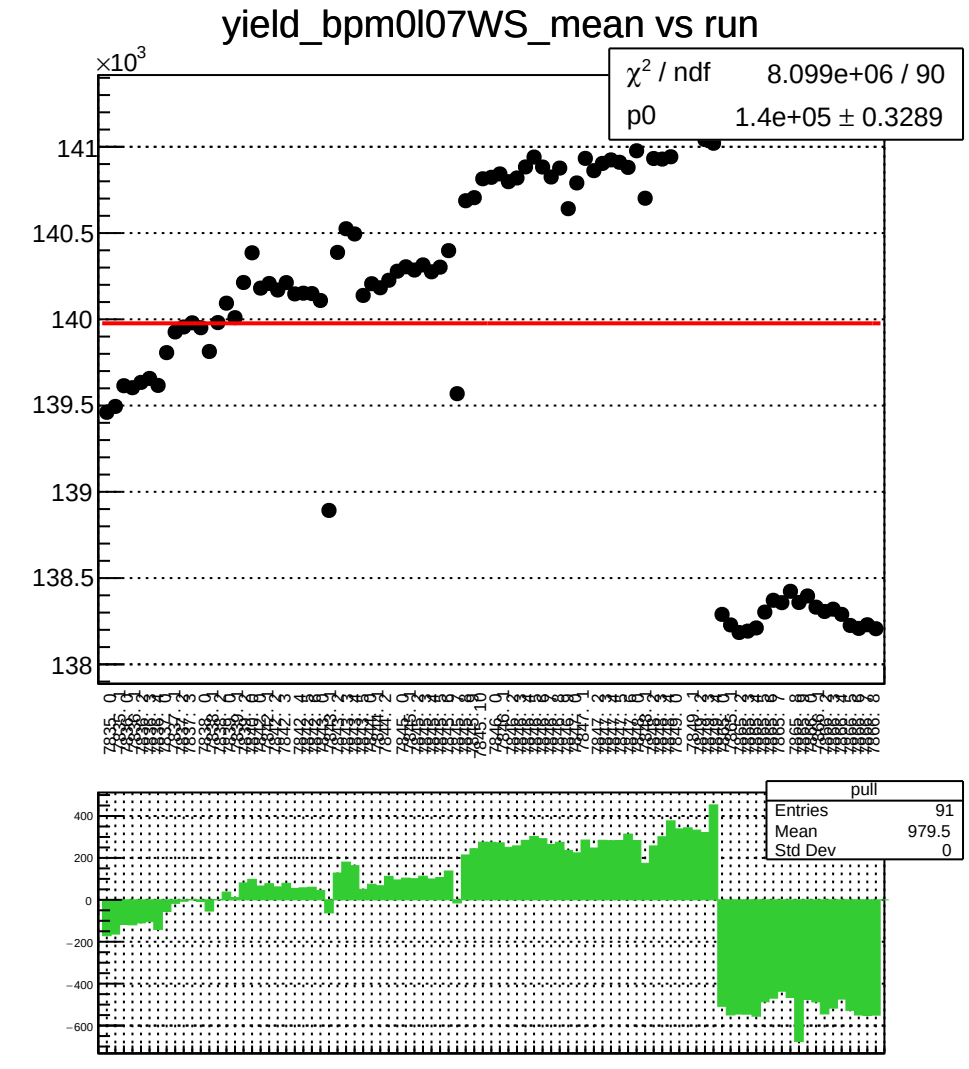

pull1D
Entries 91
Mean 0.586
Std Dev 4.423
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

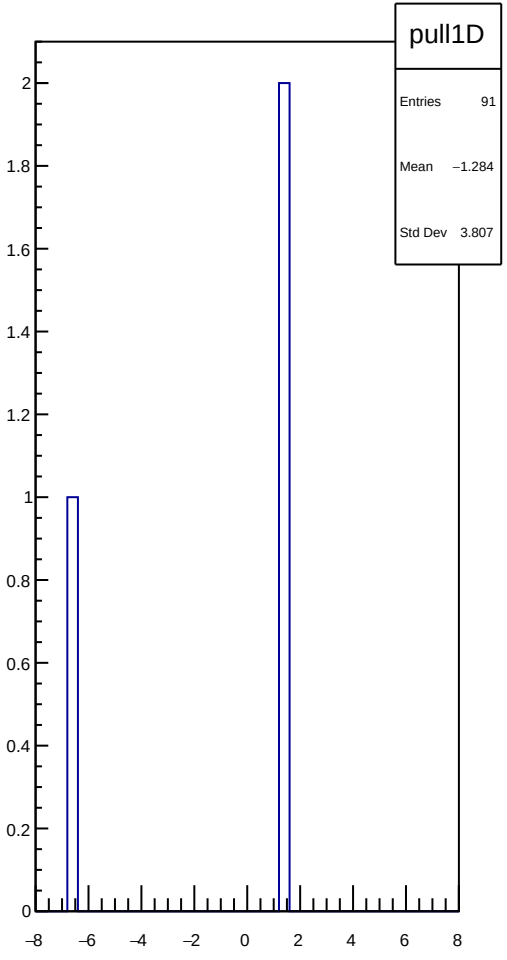

yield_bpm0l05WS_rms vs run
χ² / ndf 3.519e+04 / 90
p0 260.3 ± 0.1985
2500
2000
1500
1000
500

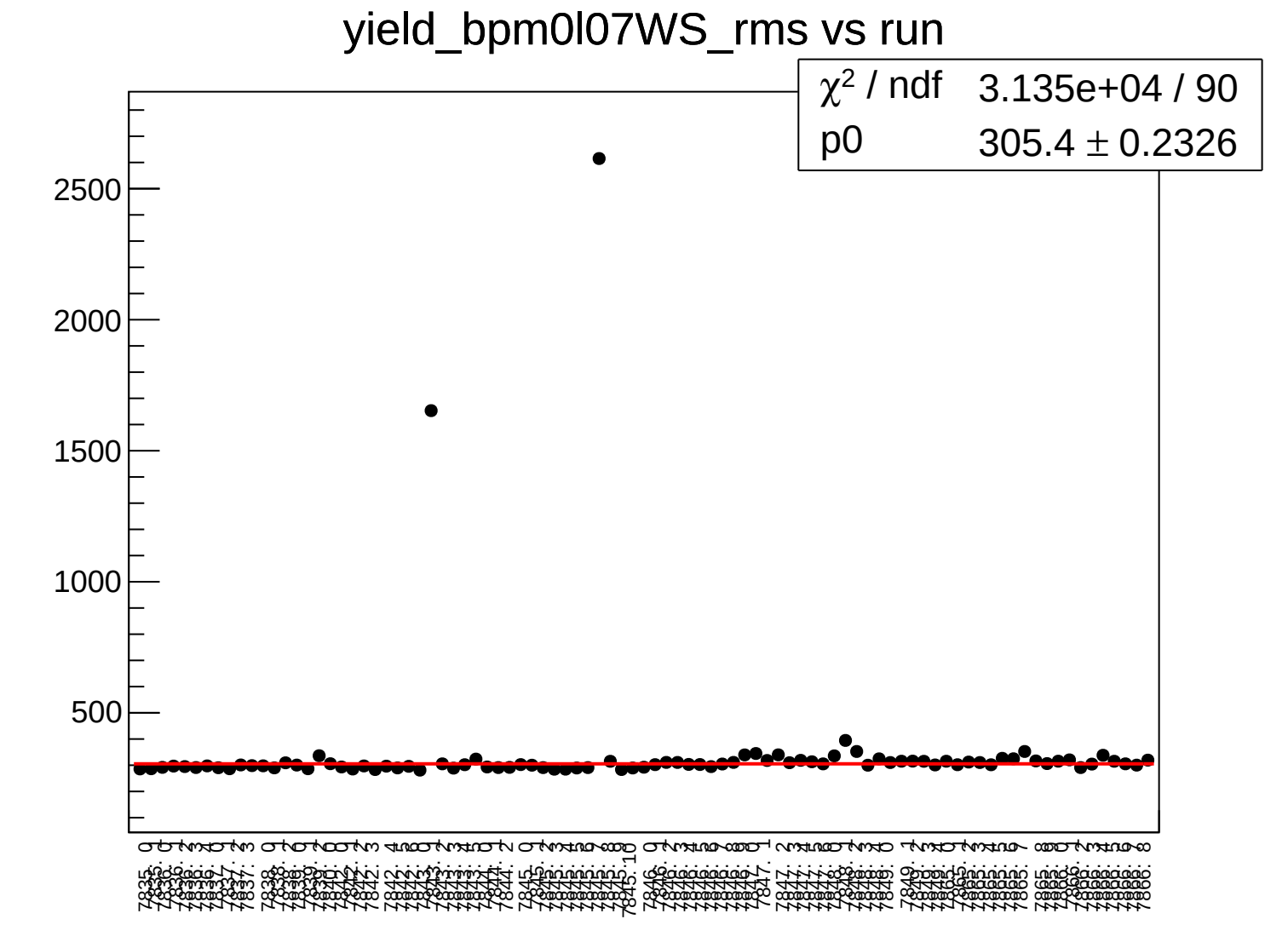

yield_bpm0l06WS_mean vs run
χ² / ndf 6.34e+04 / 90
p0 2382 ± 0.01504
2390
2388
2386
2384
2382
2380
2378
2376
pull
Entries 91
Mean −349.3
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
−40

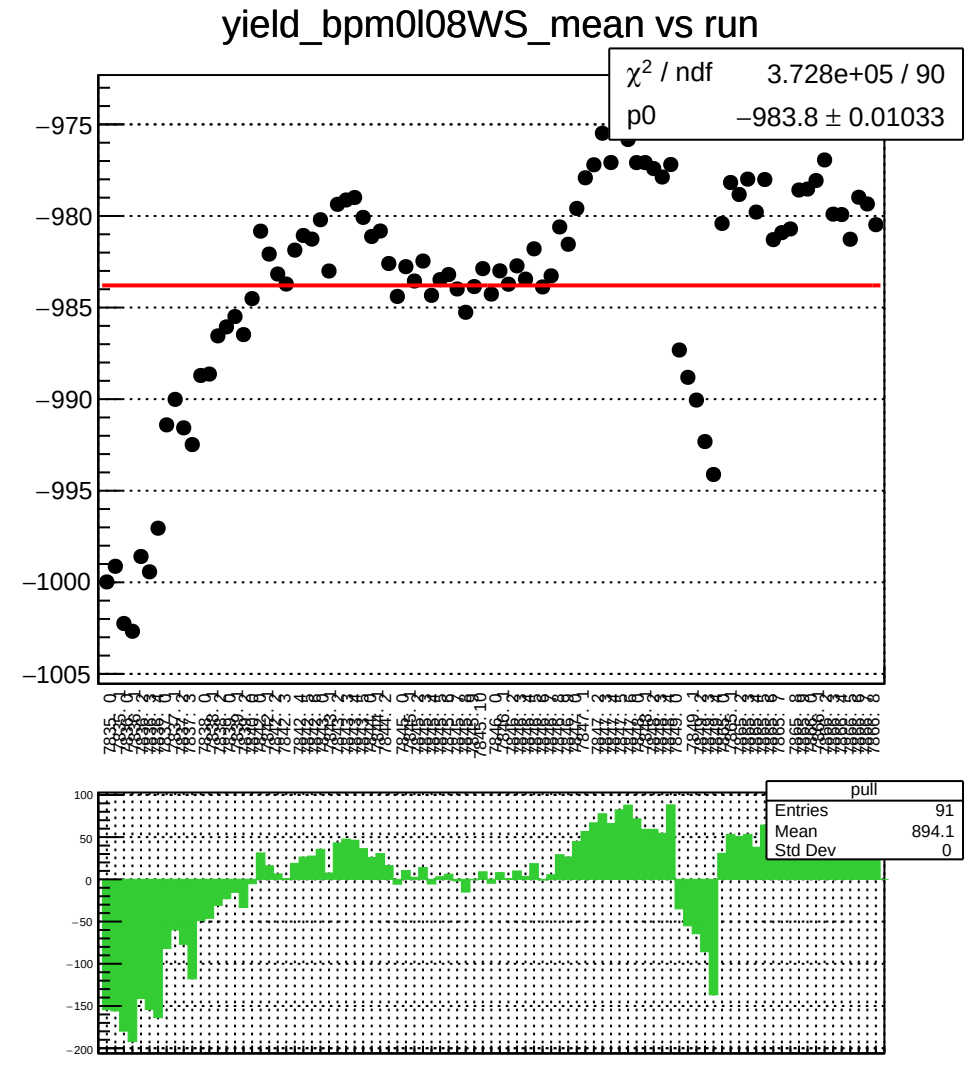

pull1D
Entries 91
Mean −4.882
Std Dev 1.854
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

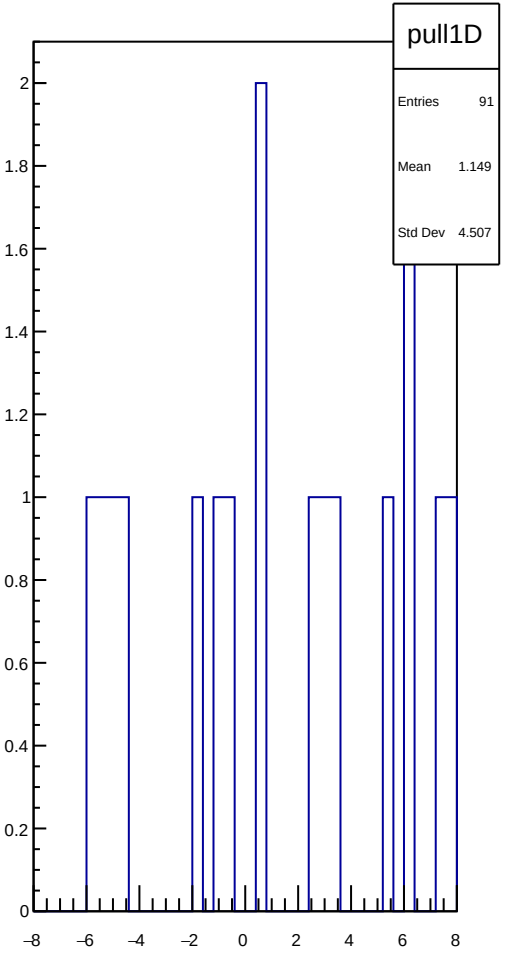

yield_bpm0l06WS_rms vs run
χ² / ndf 2522 / 90
p0 14.08 ± 0.01064
15.5
15
14.5
14
13.5
13
12.5

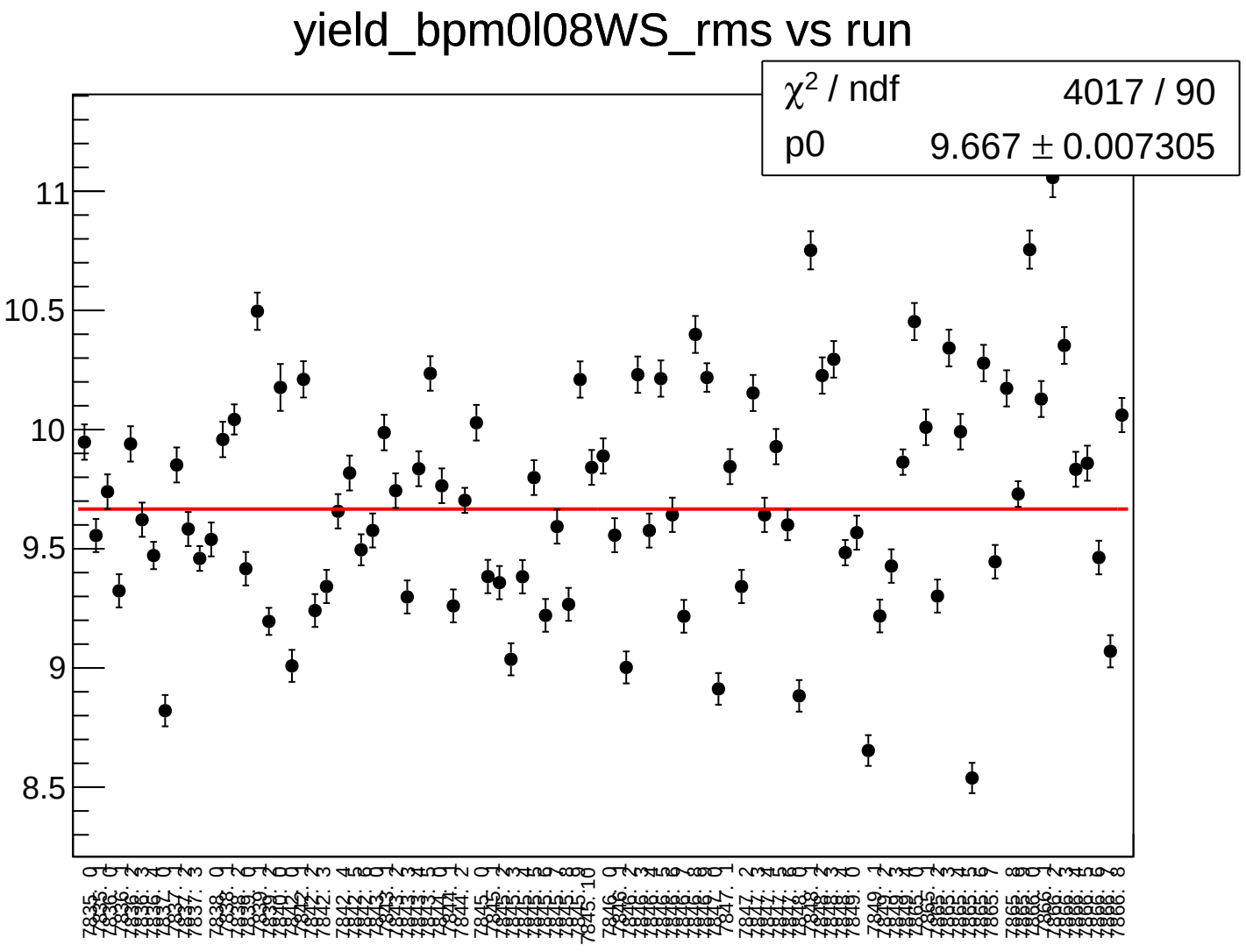

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 8.099e+06 / 90
p0 1.4e+05 ± 0.3289
141
140.5
140
139.5
139
138.5
138
pull
Entries 91
Mean 979.5
Std Dev 0
400
200
0
−200
−400
−600

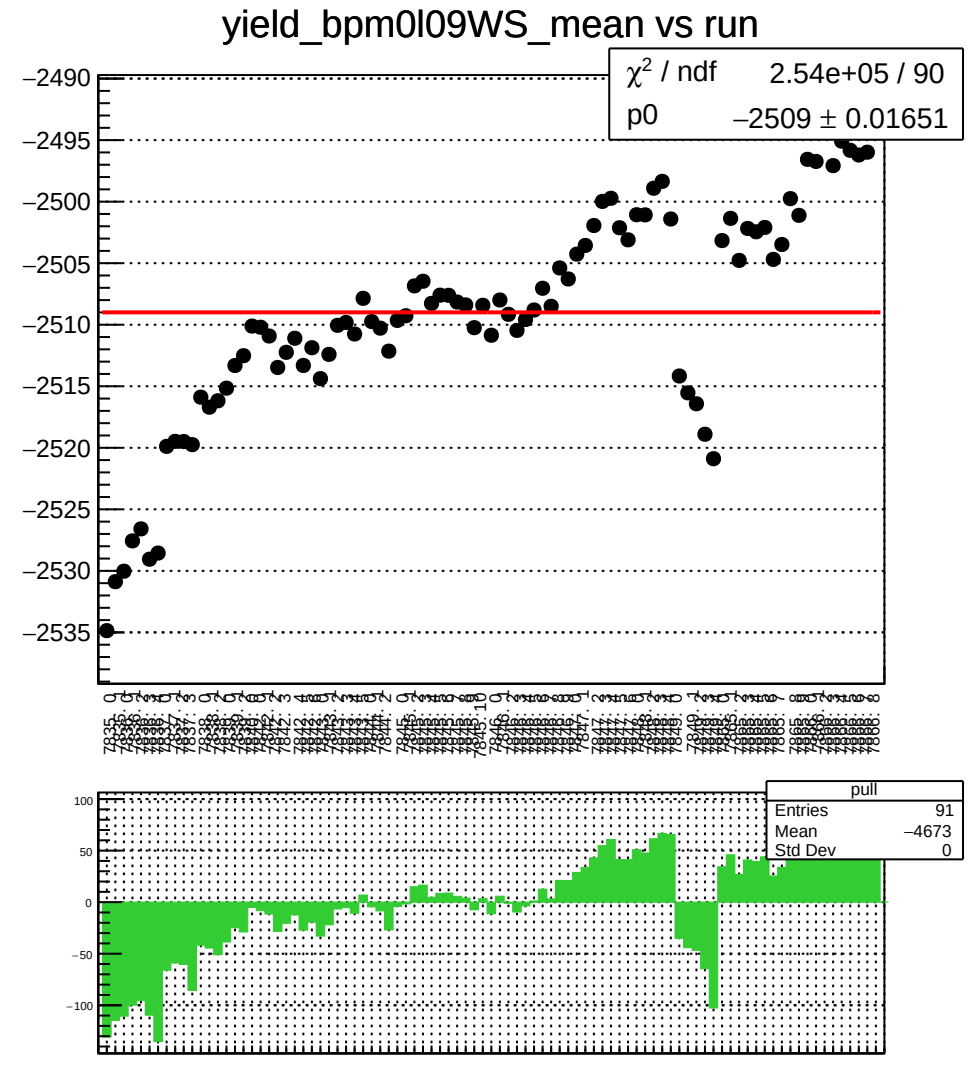

pull1D
Entries 91
Mean −1.284
Std Dev 3.807
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

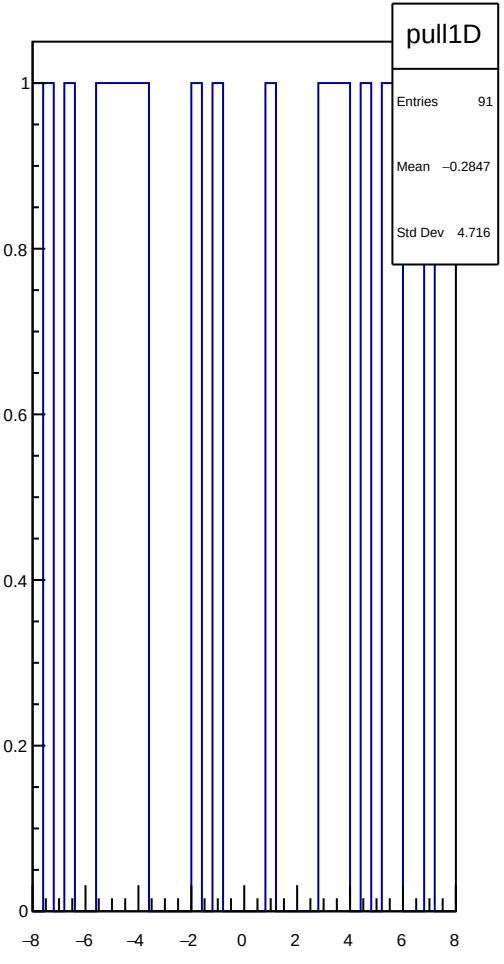

yield_bpm0l07WS_rms vs run
χ² / ndf 3.135e+04 / 90
p0 305.4 ± 0.2326
2500
2000
1500
1000
500

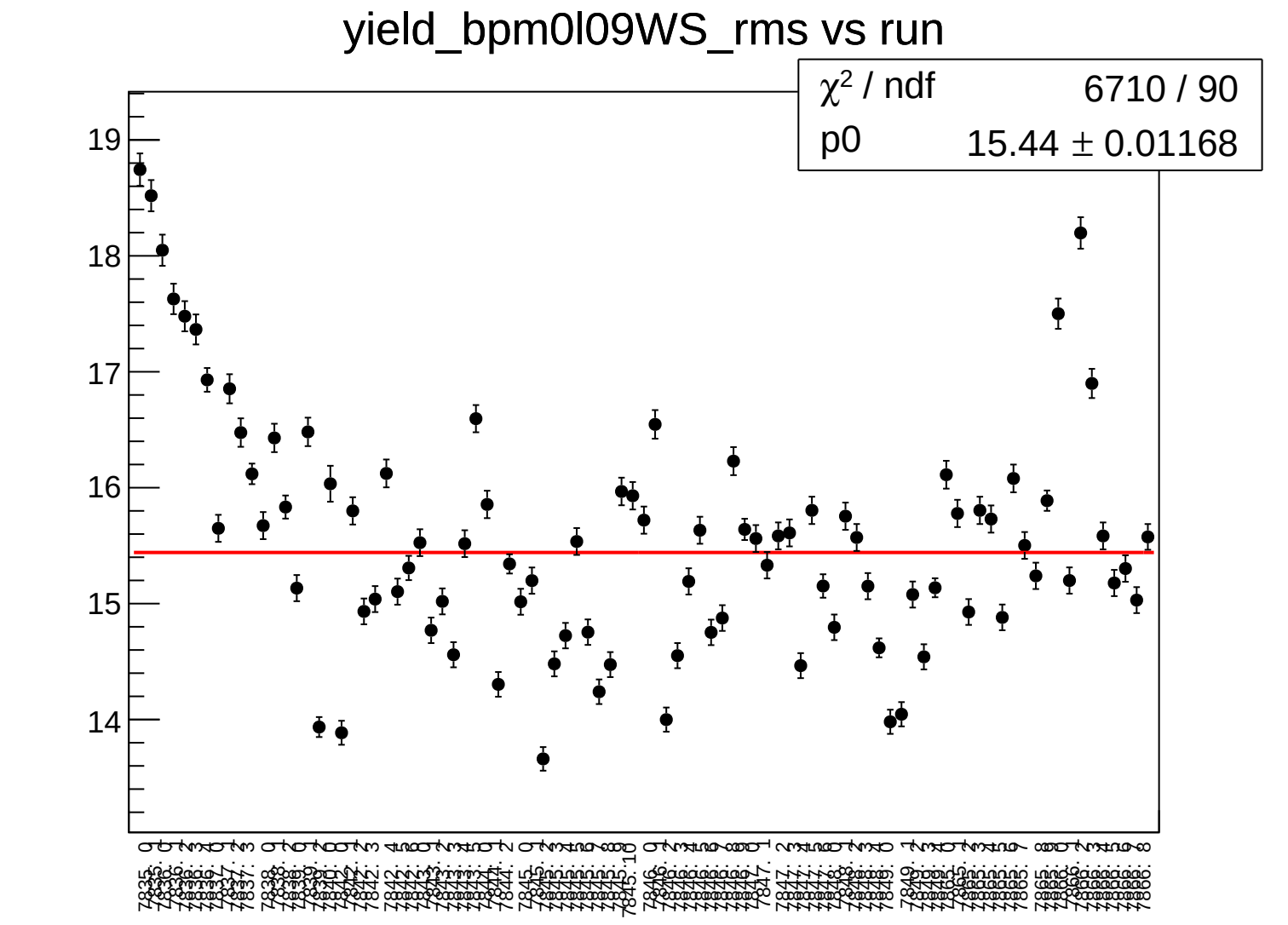

yield_bpm0l08WS_mean vs run
χ² / ndf 3.728e+05 / 90
p0 −983.8 ± 0.01033
−975
−980
−985
−990
−995
−1000
−1005
pull
Entries 91
Mean 894.1
Std Dev 0
100
50
0
−50
−100
−150
−200

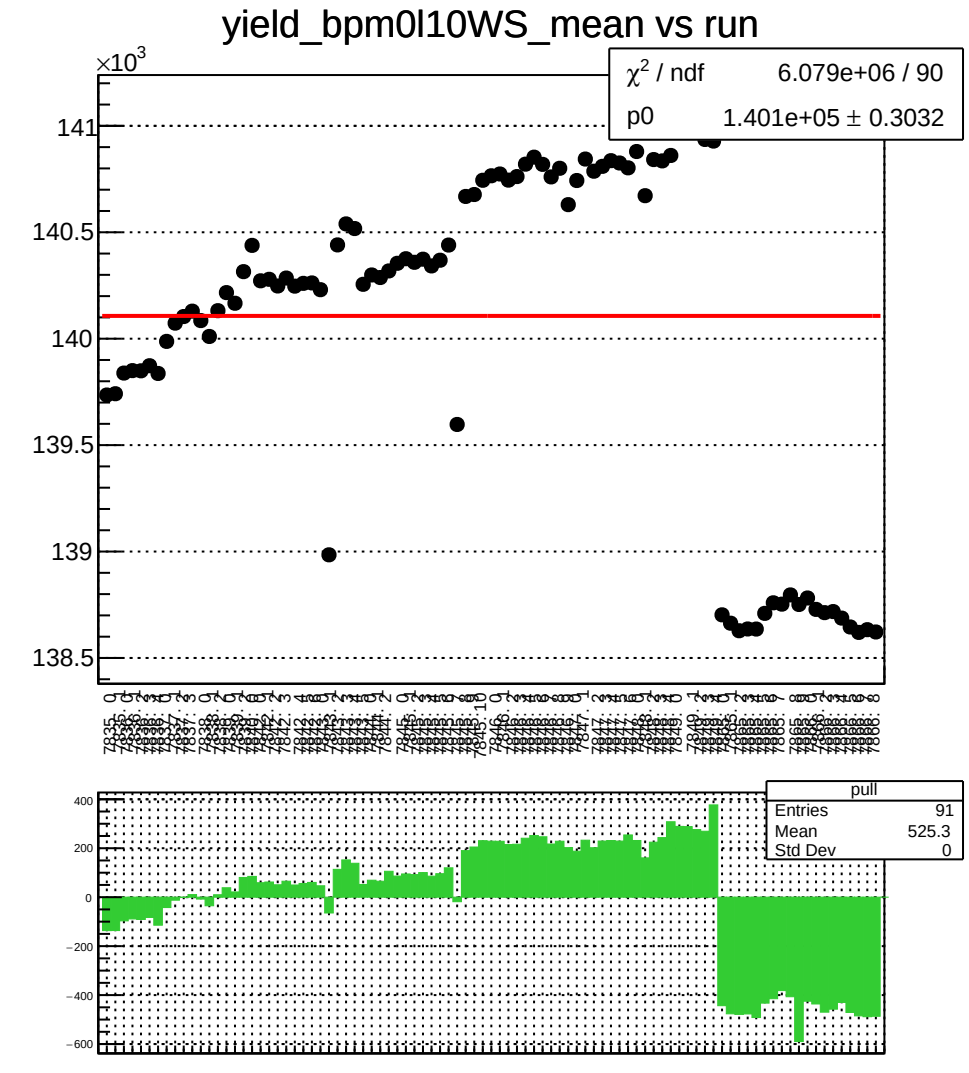

pull1D
Entries 91
Mean 1.149
Std Dev 4.507
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

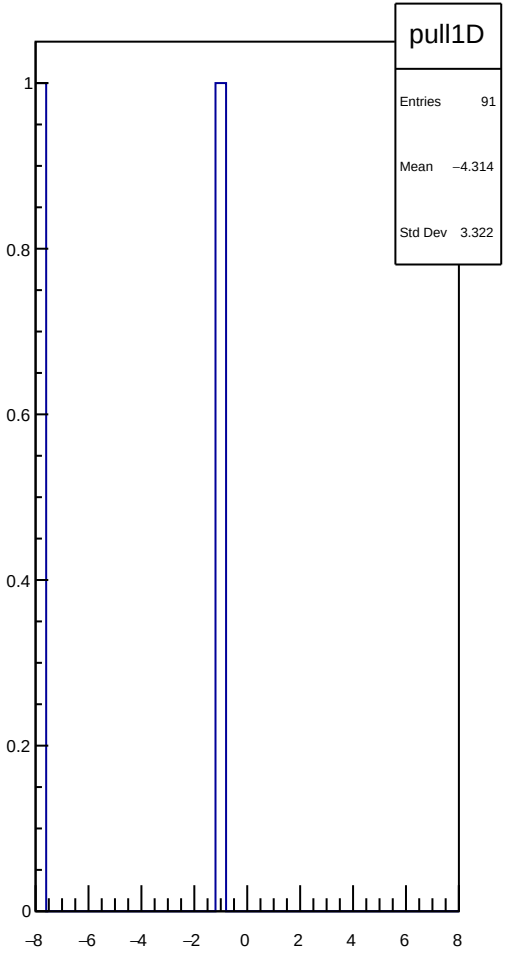

yield_bpm0l08WS_rms vs run
χ^2 / ndf 4017 / 90
p0 9.667 ± 0.007305
11
10.5
10
9.5
9
8.5

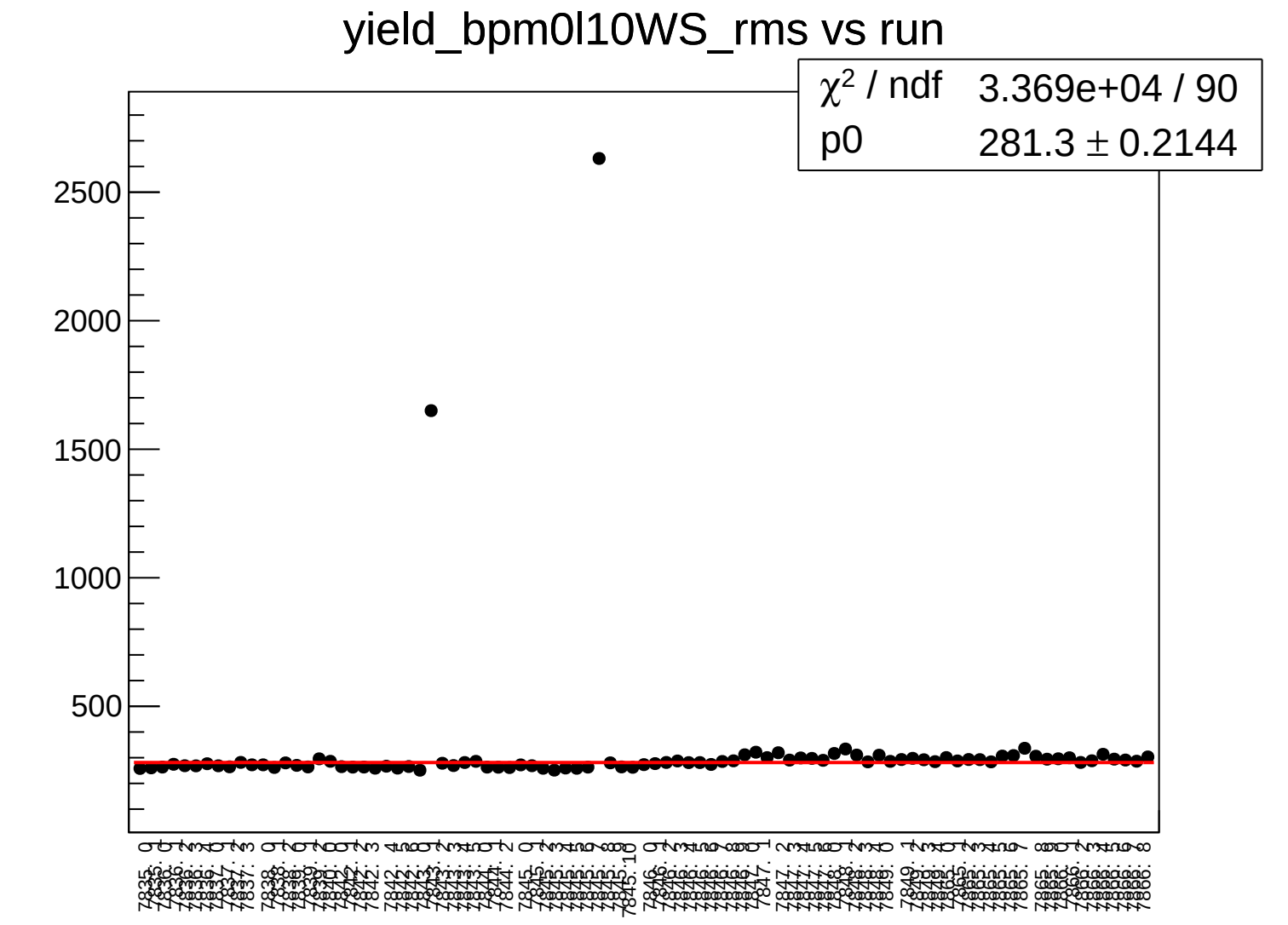

yield_bpm0l09WS_mean vs run
χ² / ndf 2.54e+05 / 90
p0 −2509 ± 0.01651
−2490
−2495
−2500
−2505
−2510
−2515
−2520
−2525
−2530
−2535
pull
Entries 91
Mean −4673
Std Dev 0
100
50
0
−50
−100

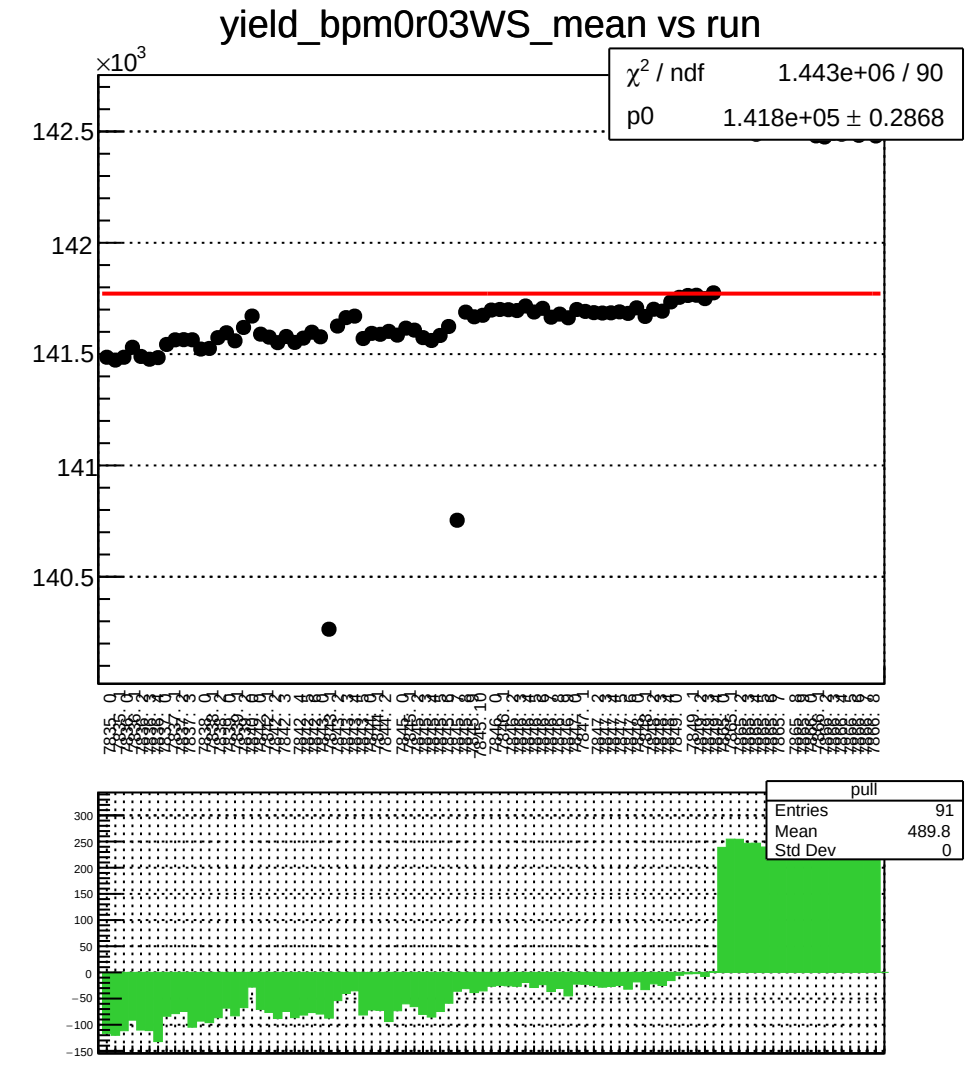

pull1D
Entries 91
Mean −0.2847
Std Dev 4.716
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

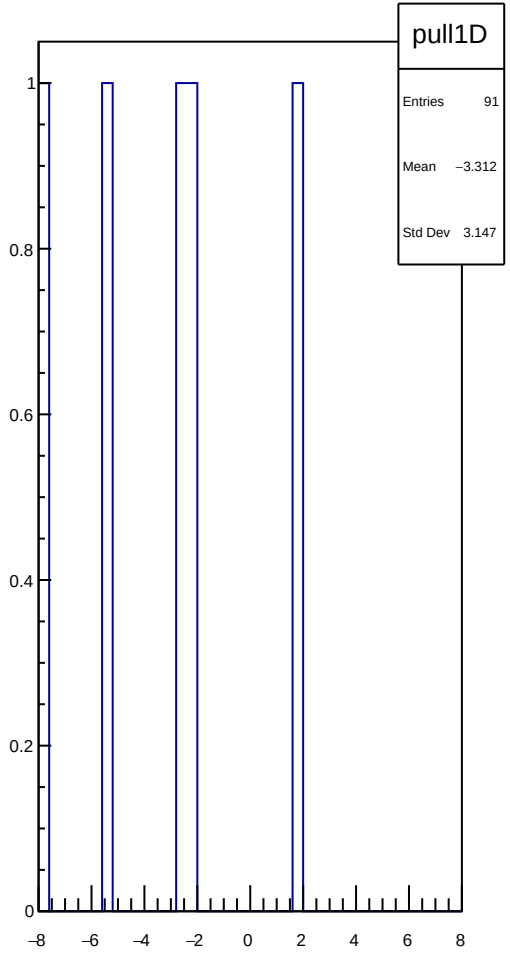

yield_bpm0l09WS_rms vs run
χ² / ndf 6710 / 90
p0 15.44 ± 0.01168
19
18
17
16
15
14

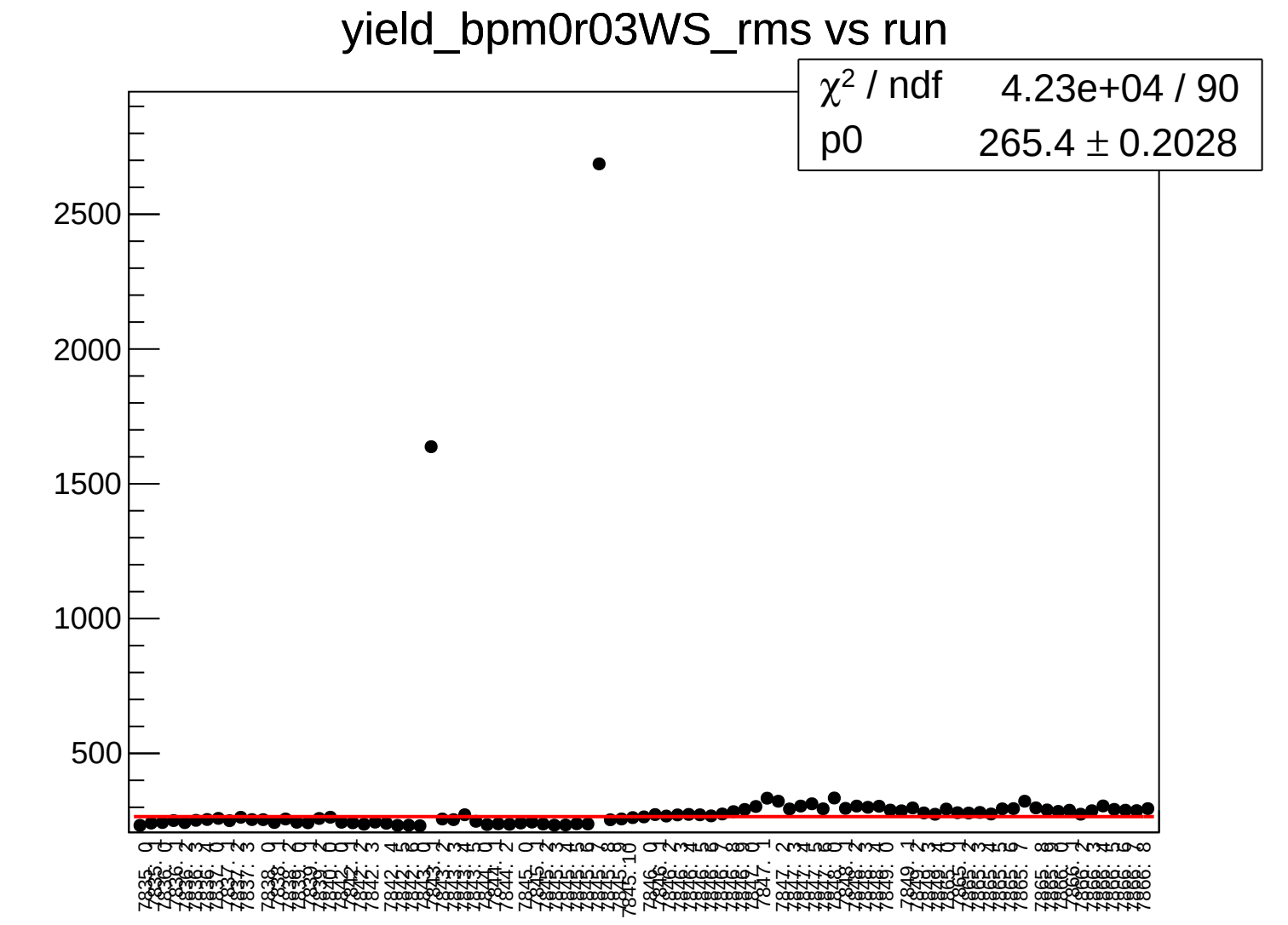

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 6.079e+06 / 90
p0 1.401e+05 ± 0.3032
141
140.5
140
139.5
139
138.5
pull
Entries 91
Mean 525.3
Std Dev 0
400
200
0
−200
−400
−600

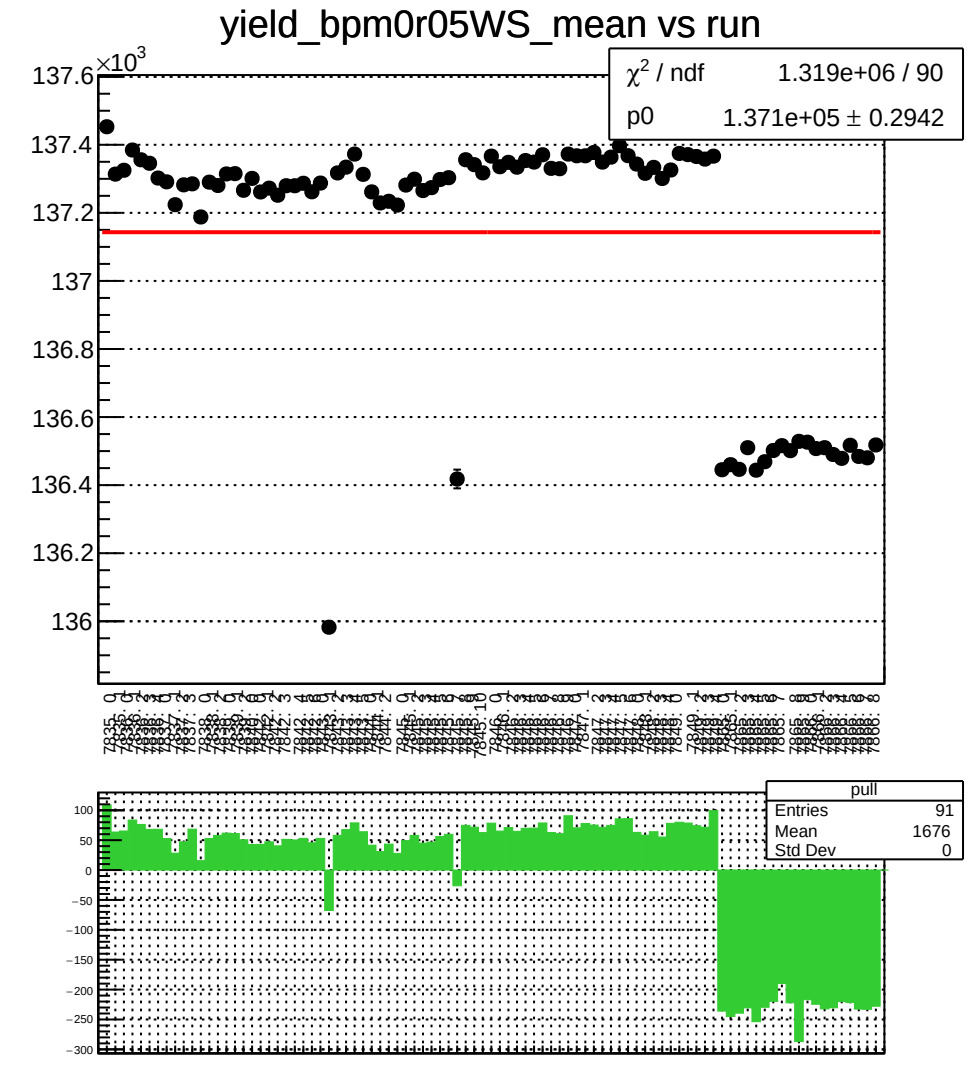

pull1D
Entries 91
Mean −4.314
Std Dev 3.322
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

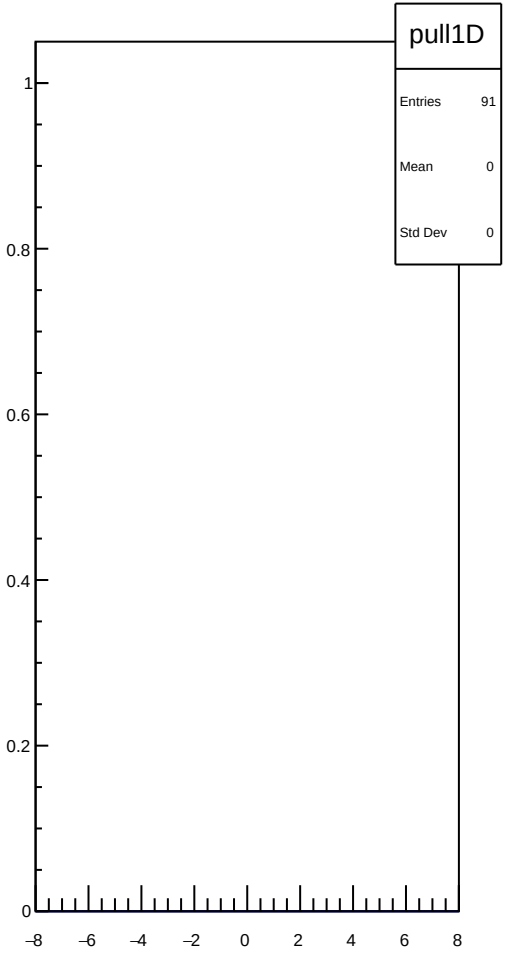

yield_bpm0l10WS_rms vs run
χ² / ndf 3.369e+04 / 90
p0 281.3 ± 0.2144
2500
2000
1500
1000
500

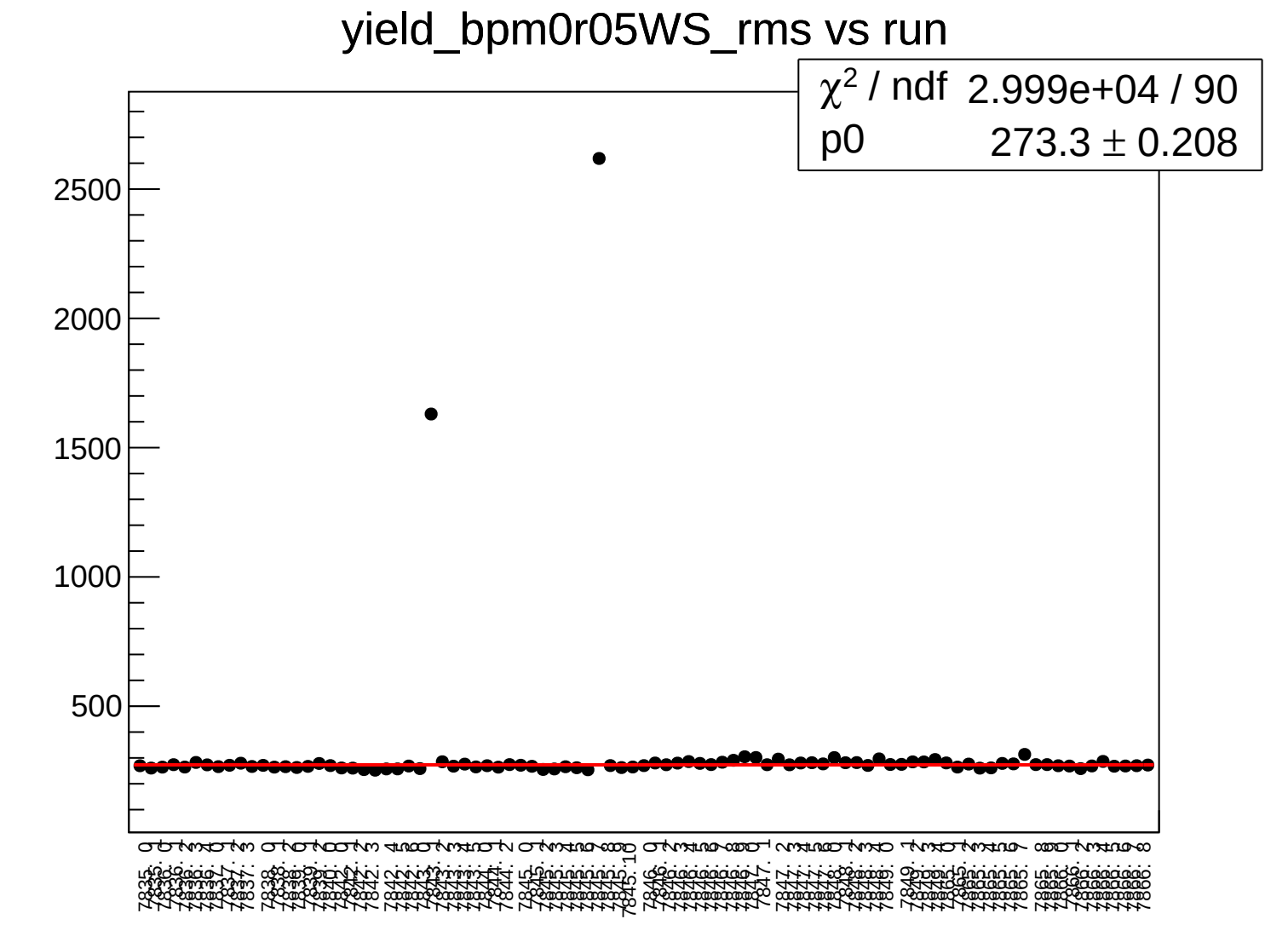

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.443e+06 / 90
p0 1.418e+05 ± 0.2868
142.5
142
141.5
141
140.5
pull
Entries 91
Mean 489.8
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

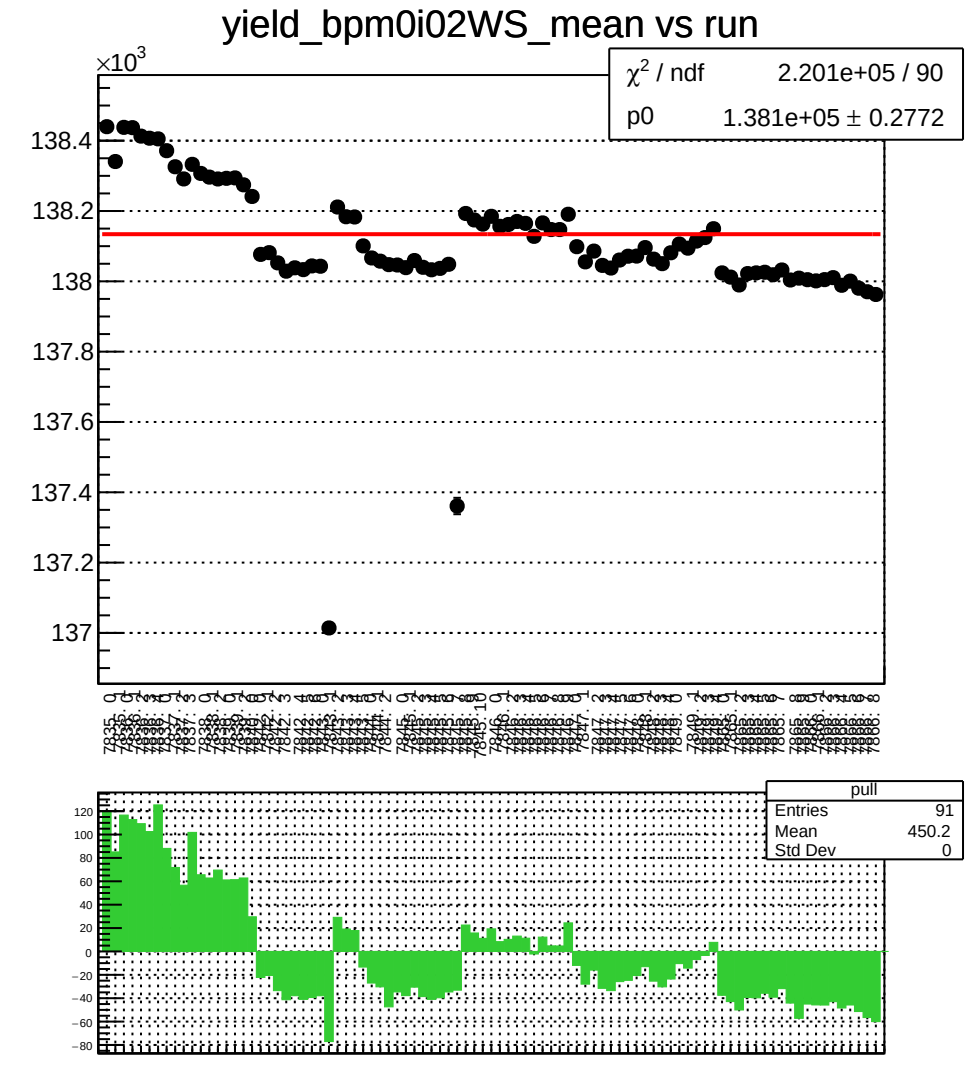

pull1D
Entries 91
Mean −3.312
Std Dev 3.147
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

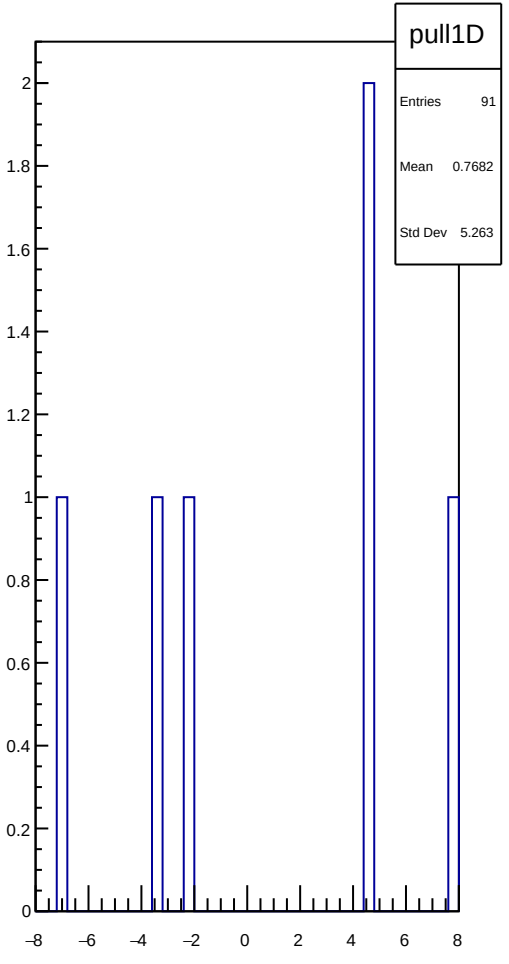

yield_bpm0r03WS_rms vs run
χ² / ndf 4.23e+04 / 90
p0 265.4 ± 0.2028
2500
2000
1500
1000
500

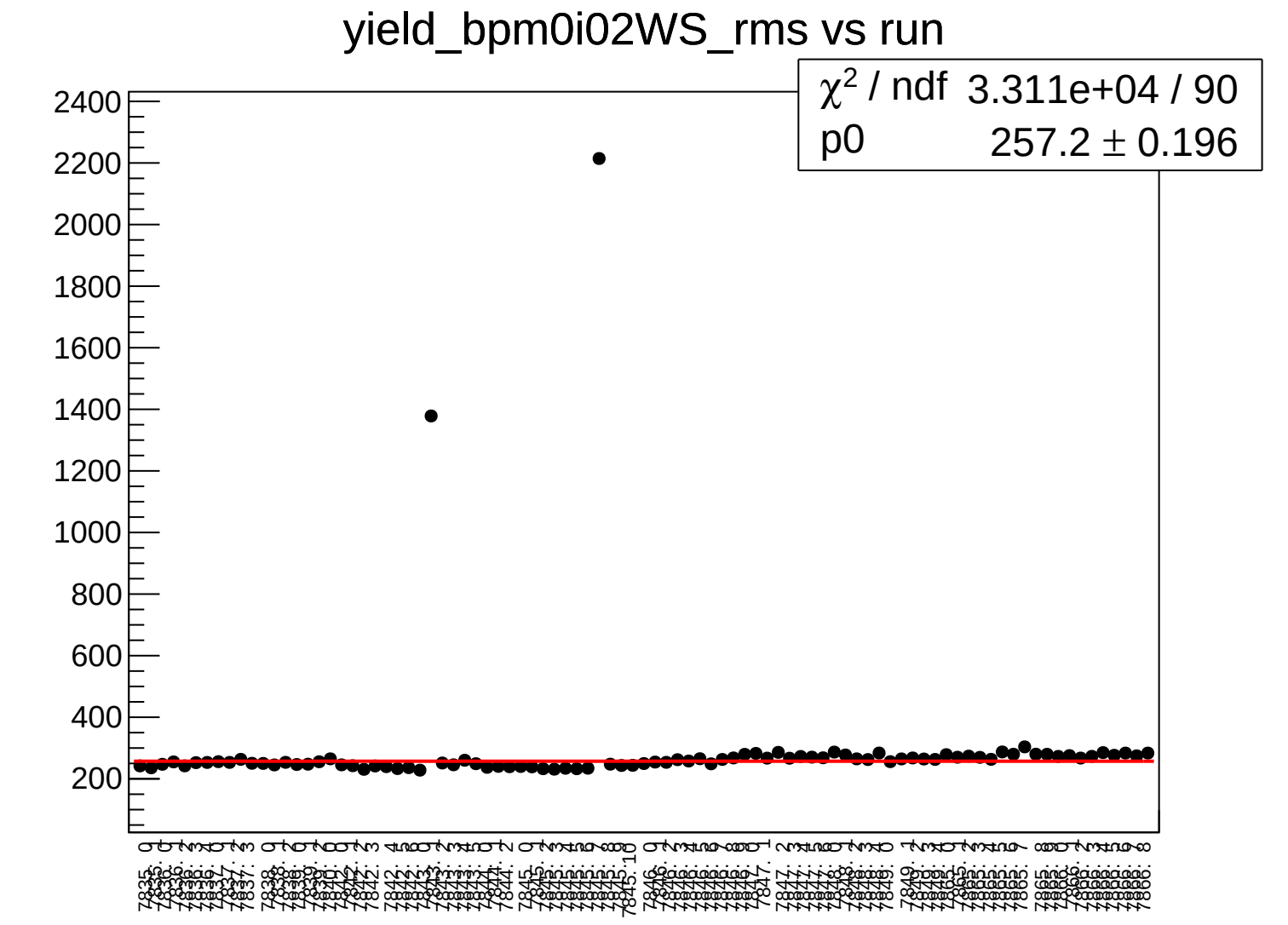

yield_bpm0r05WS_mean vs run
×10^3
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
136
χ² / ndf 1.319e+06 / 90
p0 1.371e+05 ± 0.2942
pull
Entries 91
Mean 1676
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

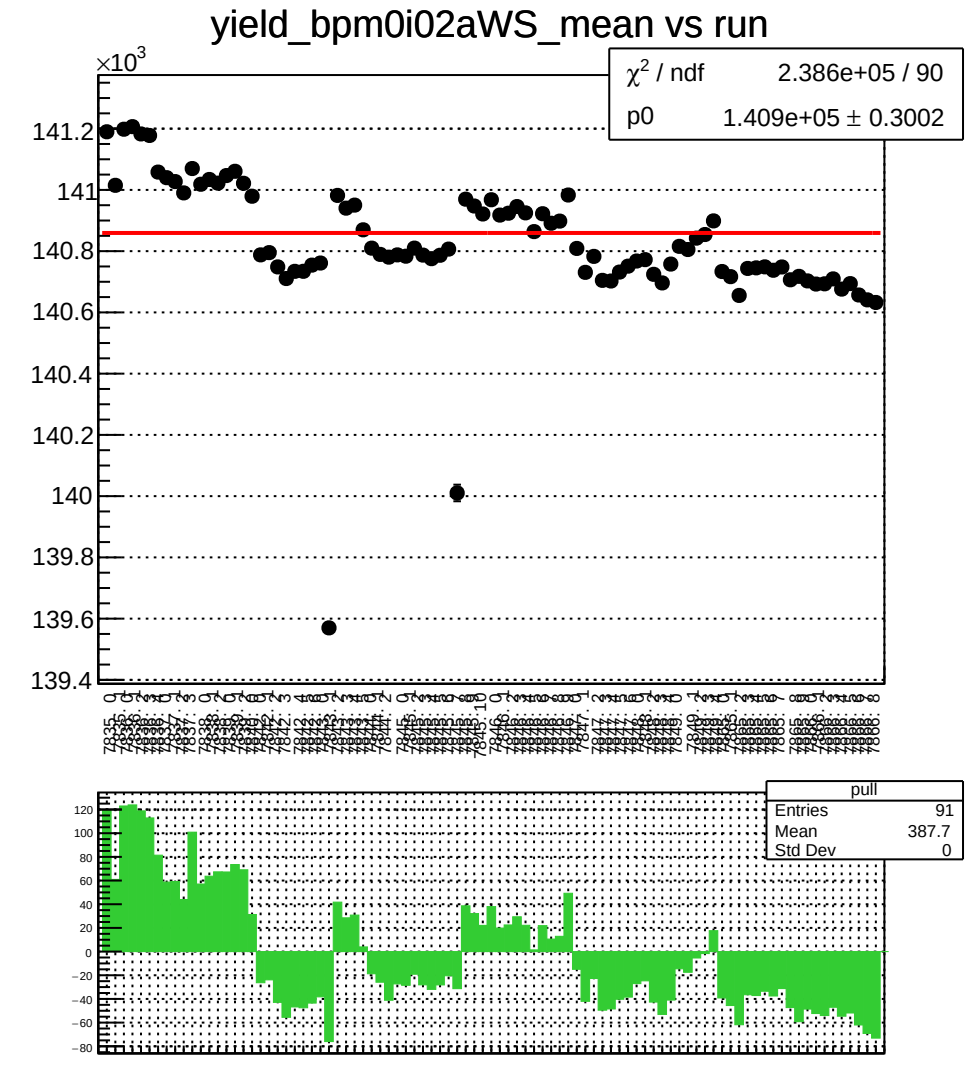

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

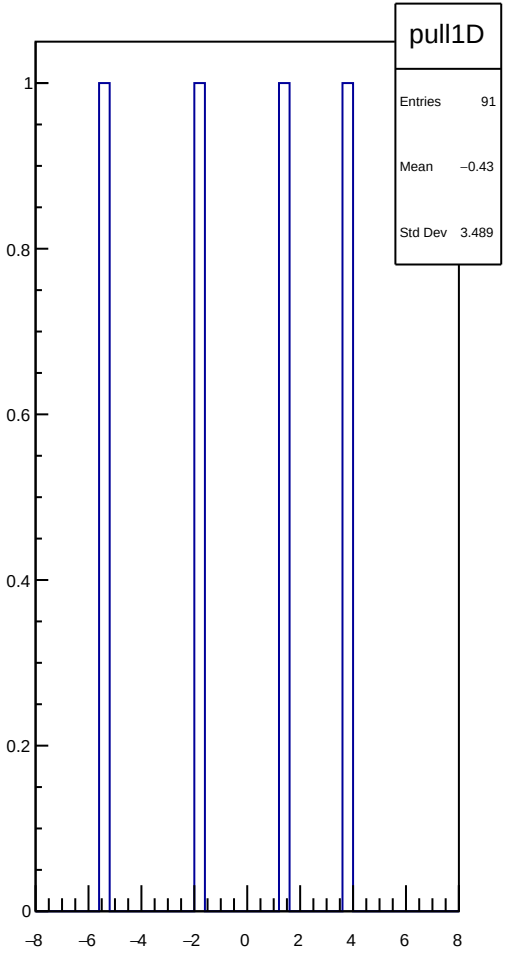

yield_bpm0r05WS_rms vs run
χ² / ndf 2.999e+04 / 90
p0 273.3 ± 0.208
2500
2000
1500
1000
500

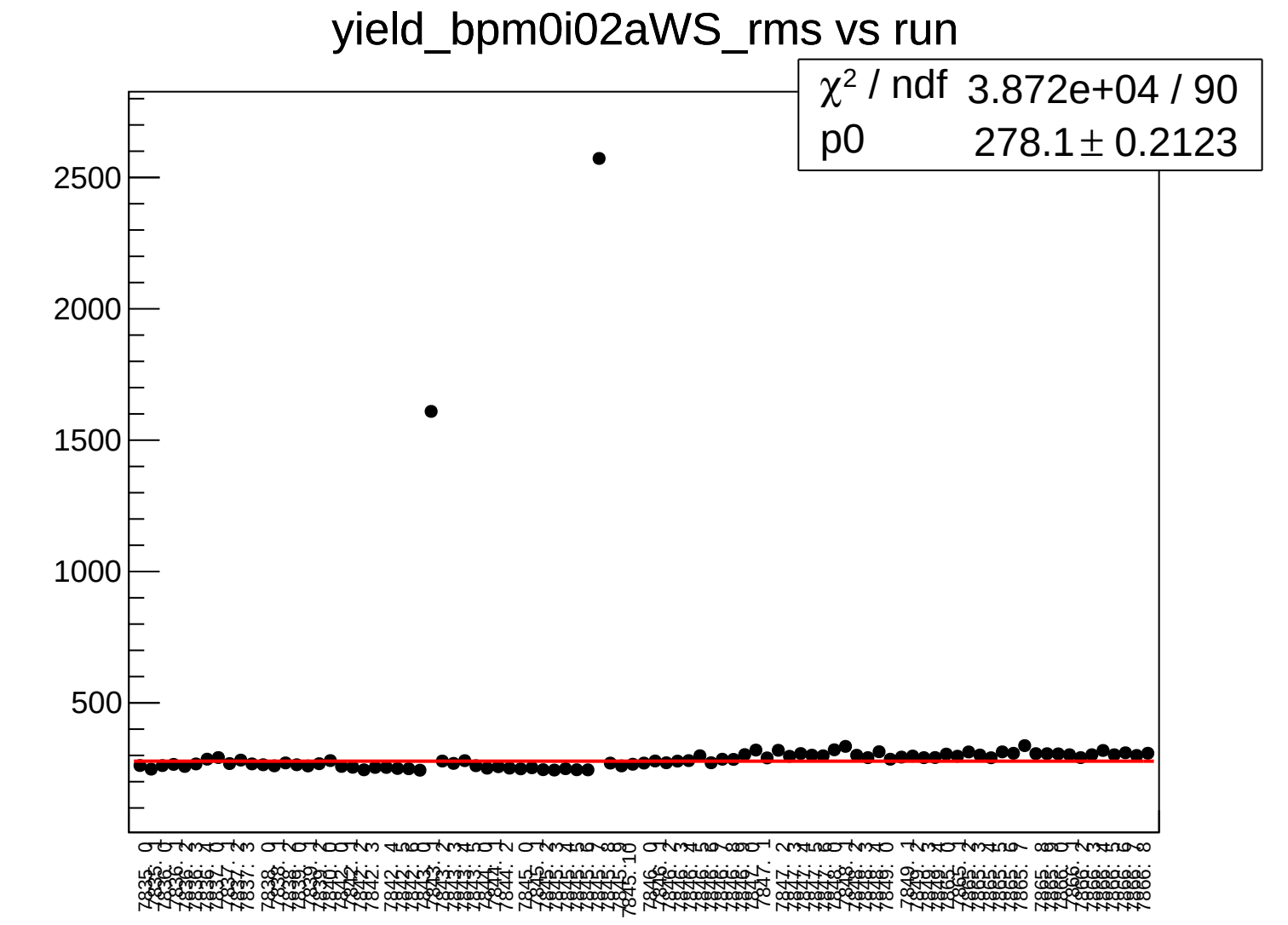

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.201e+05 / 90
p0 1.381e+05 ± 0.2772
138.4
138.2
138
137.8
137.6
137.4
137.2
137
pull
Entries 91
Mean 450.2
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

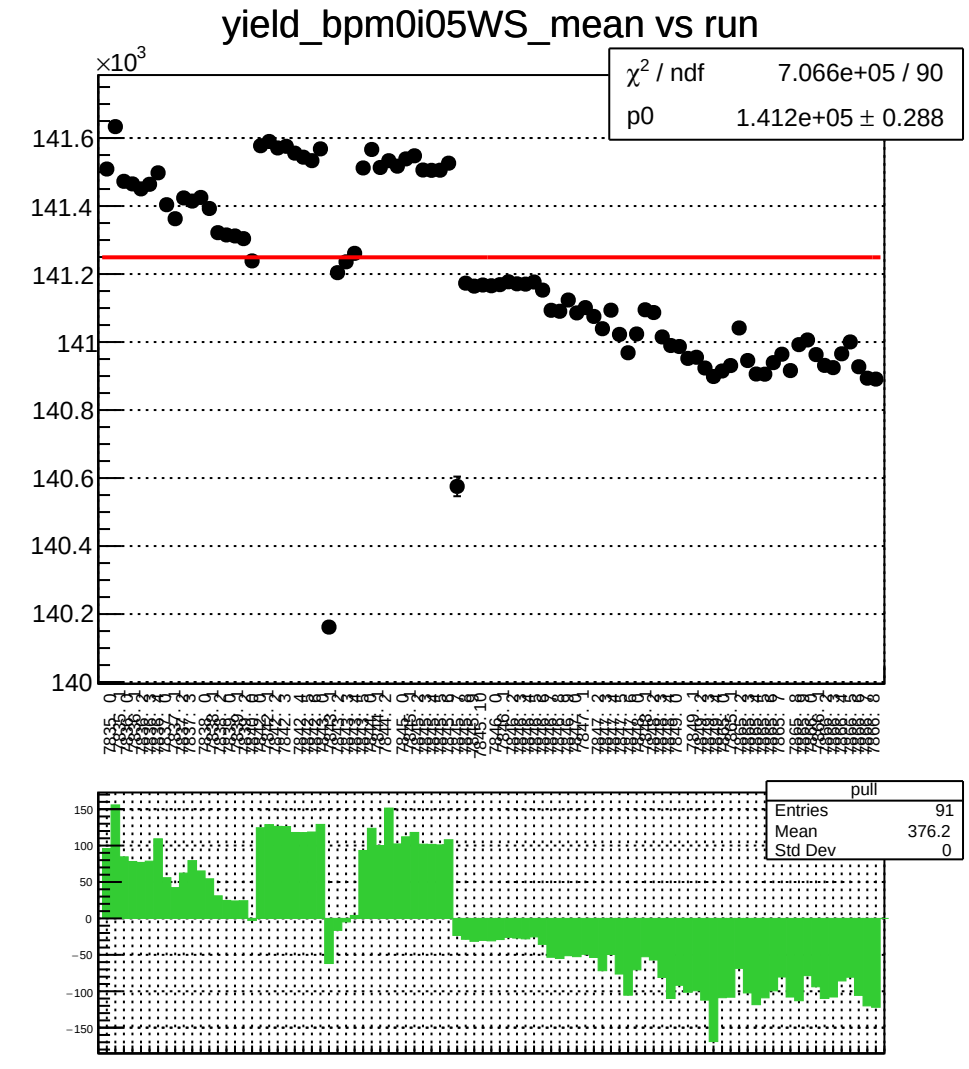

pull1D
Entries 91
Mean 0.7682
Std Dev 5.263
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

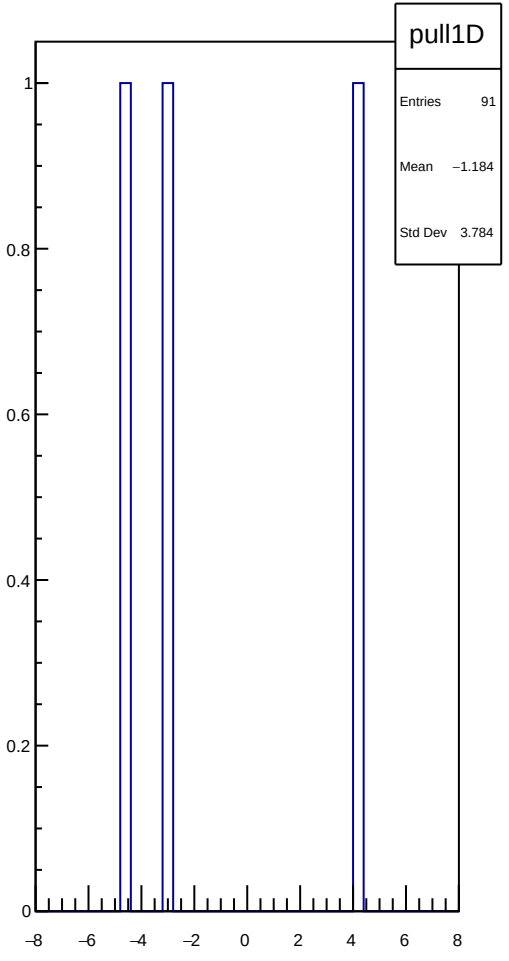

yield_bpm0i02WS_rms vs run
χ² / ndf 3.311e+04 / 90
p0 257.2 ± 0.196
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

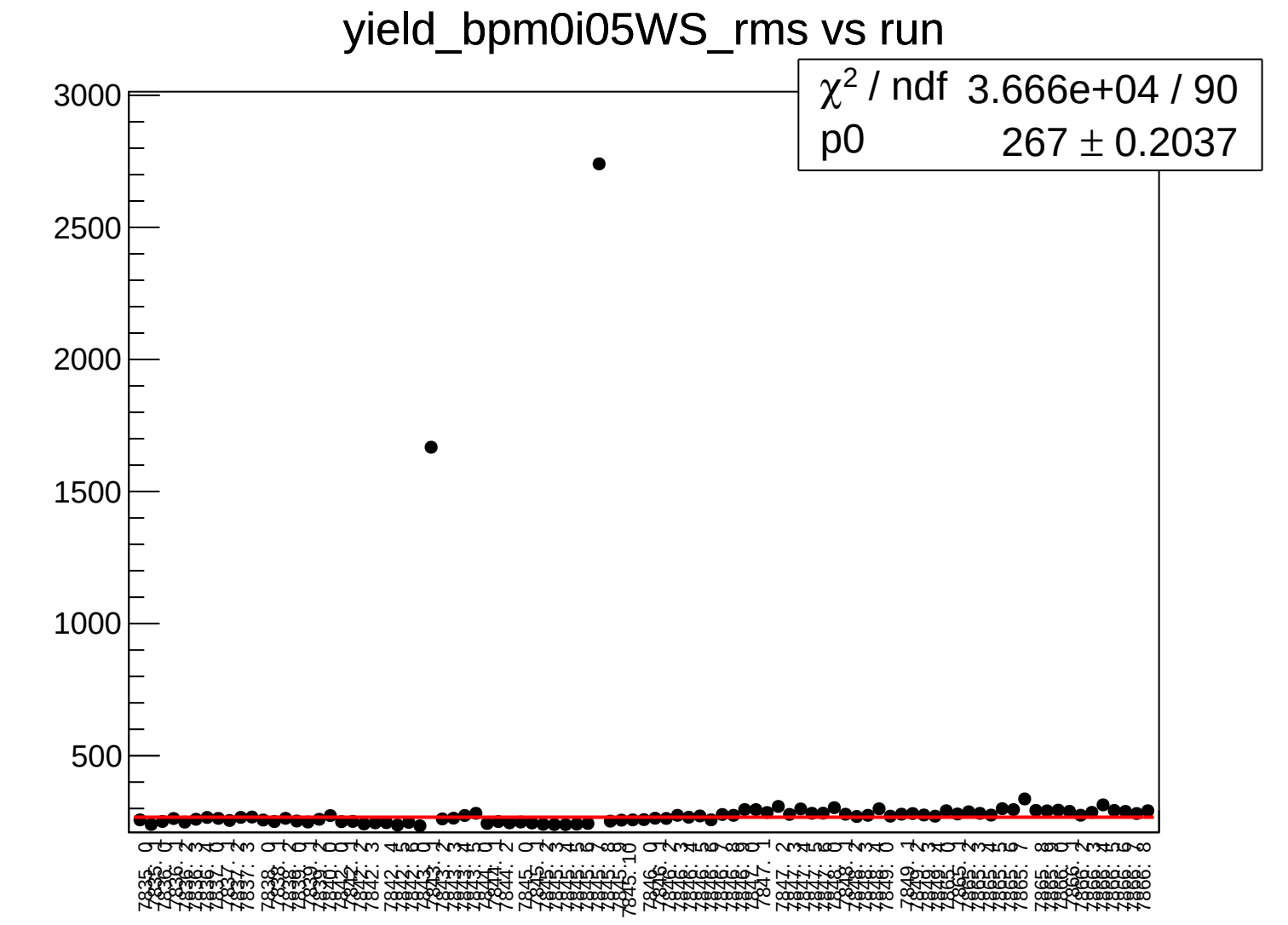

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.386e+05 / 90
p0 1.409e+05 ± 0.3002
141.2
141
140.8
140.6
140.4
140.2
140
139.8
139.6
139.4
pull
Entries 91
Mean 387.7
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

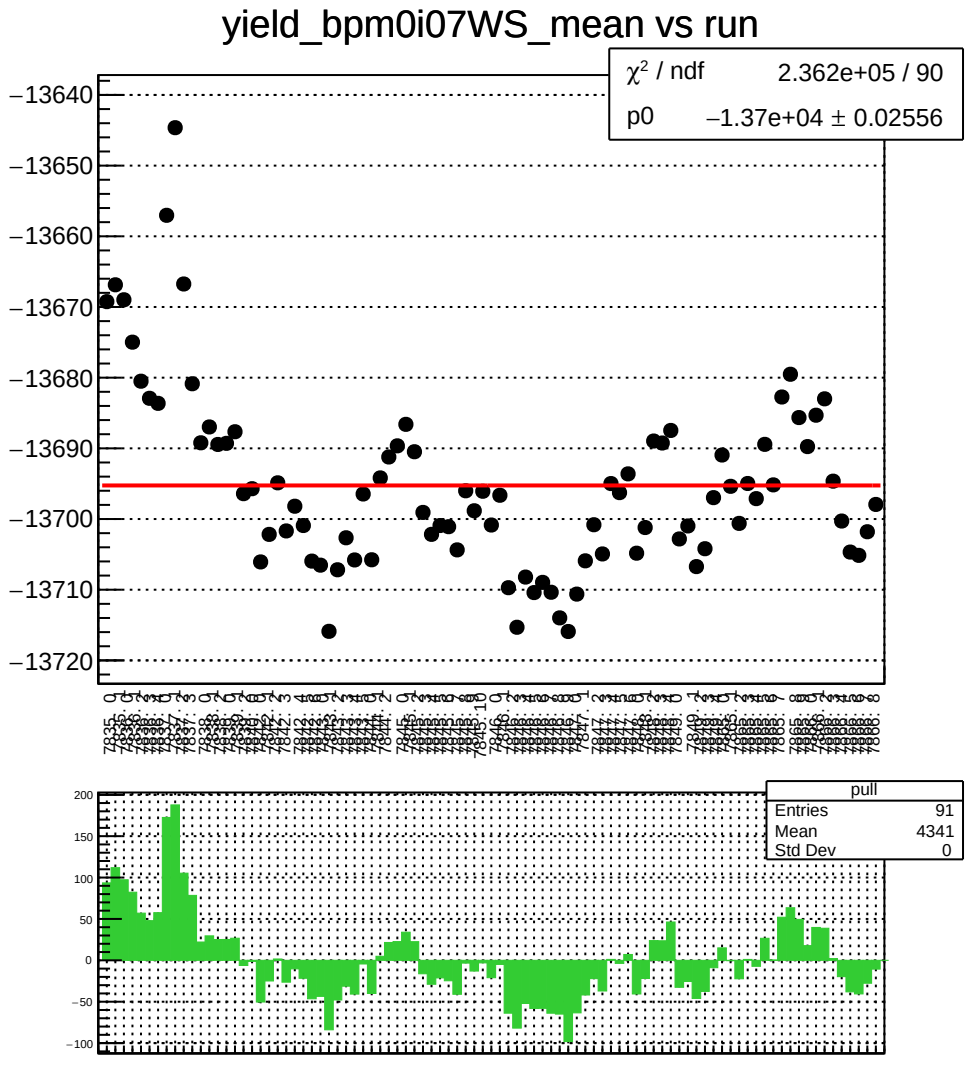

pull1D
Entries 91
Mean −0.43
Std Dev 3.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

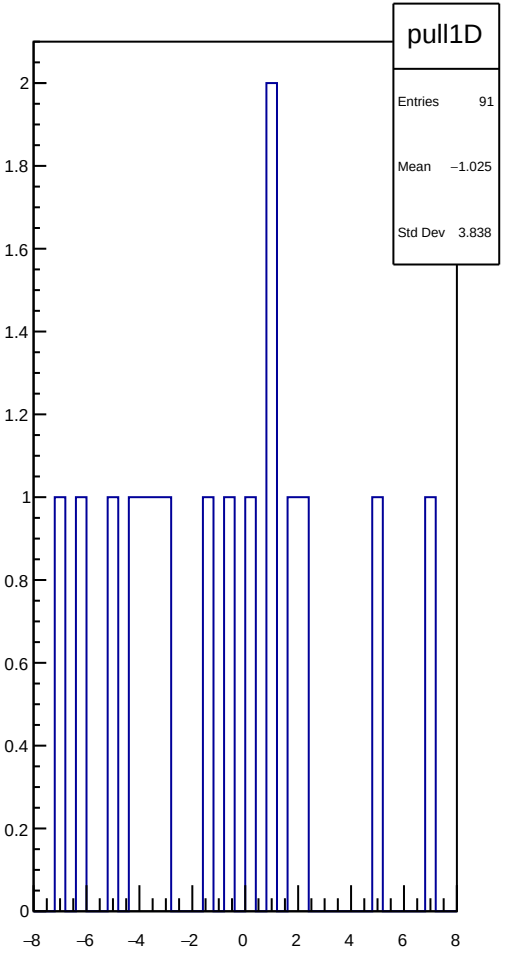

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.872e+04 / 90
p0 278.1 ± 0.2123
2500
2000
1500
1000
500

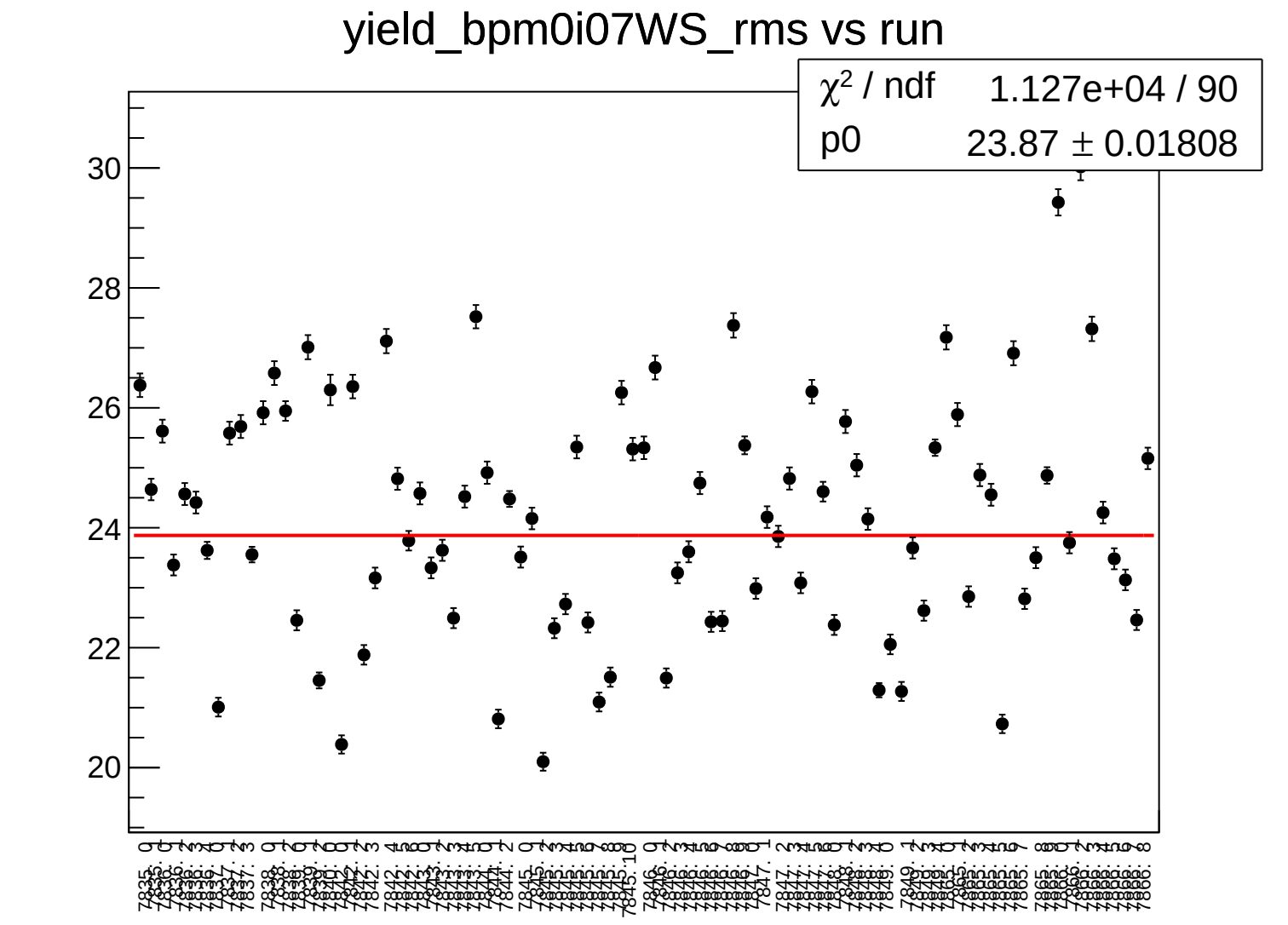

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.066e+05 / 90
p0 1.412e+05 ± 0.288
141.6
141.4
141.2
141
140.8
140.6
140.4
140.2
140
pull
Entries 91
Mean 376.2
Std Dev 0
150
100
50
0
−50
−100
−150

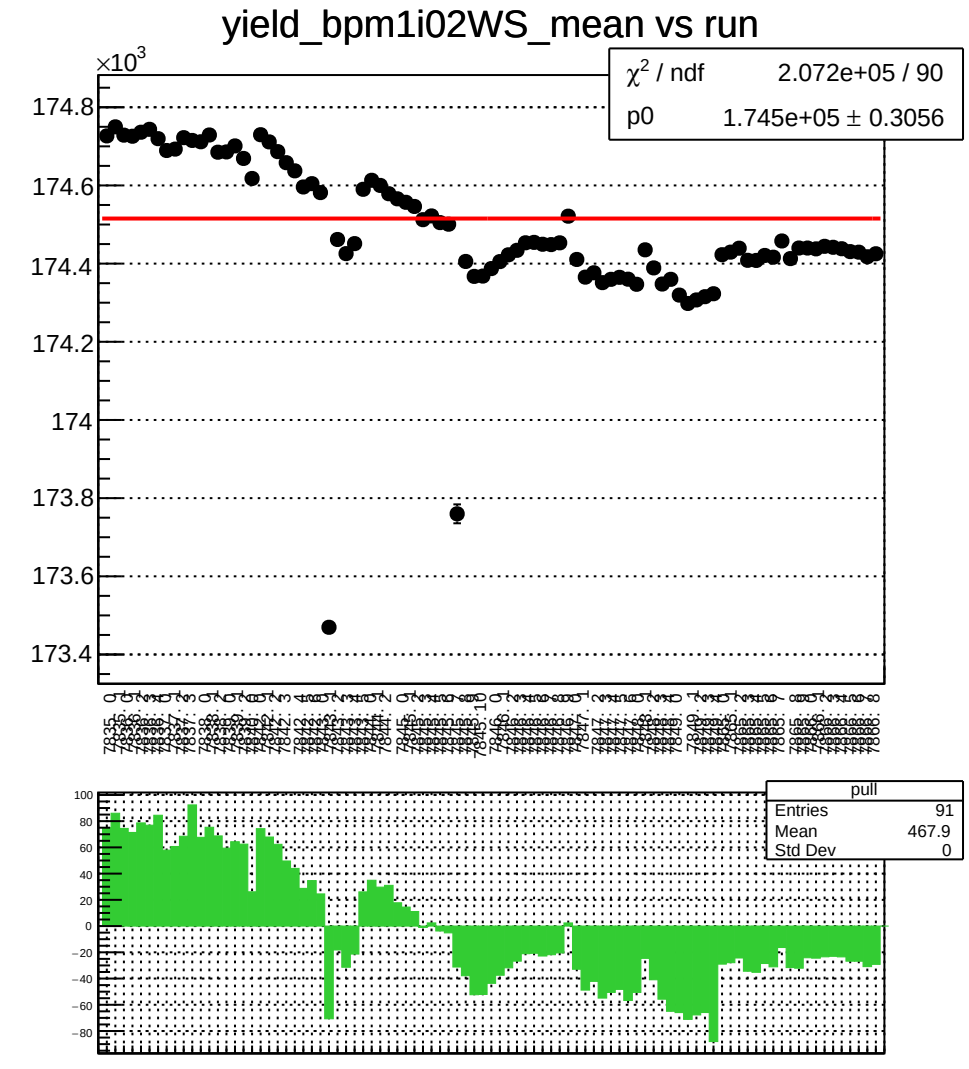

pull1D
Entries 91
Mean −1.184
Std Dev 3.784
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

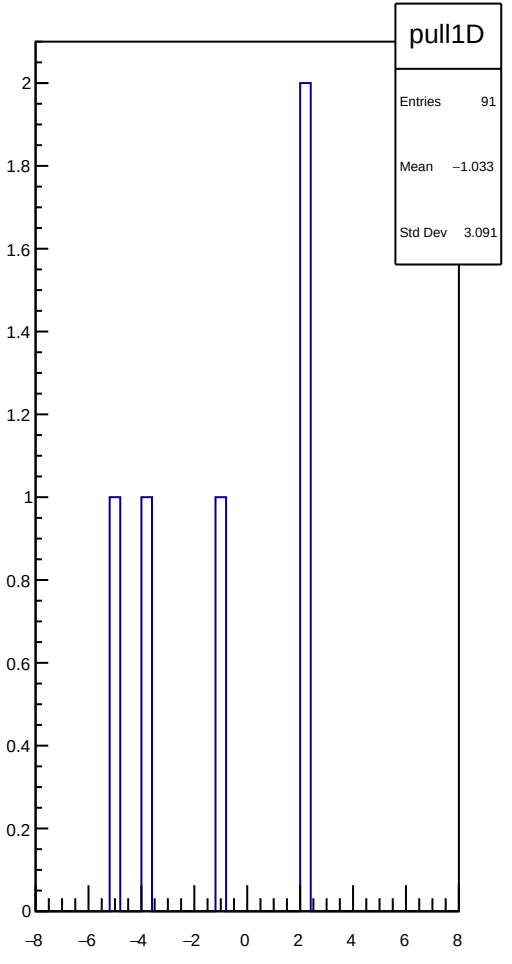

yield_bpm0i05WS_rms vs run
χ^2 / ndf 3.666e+04 / 90
p0 267 ± 0.2037
3000
2500
2000
1500
1000
500

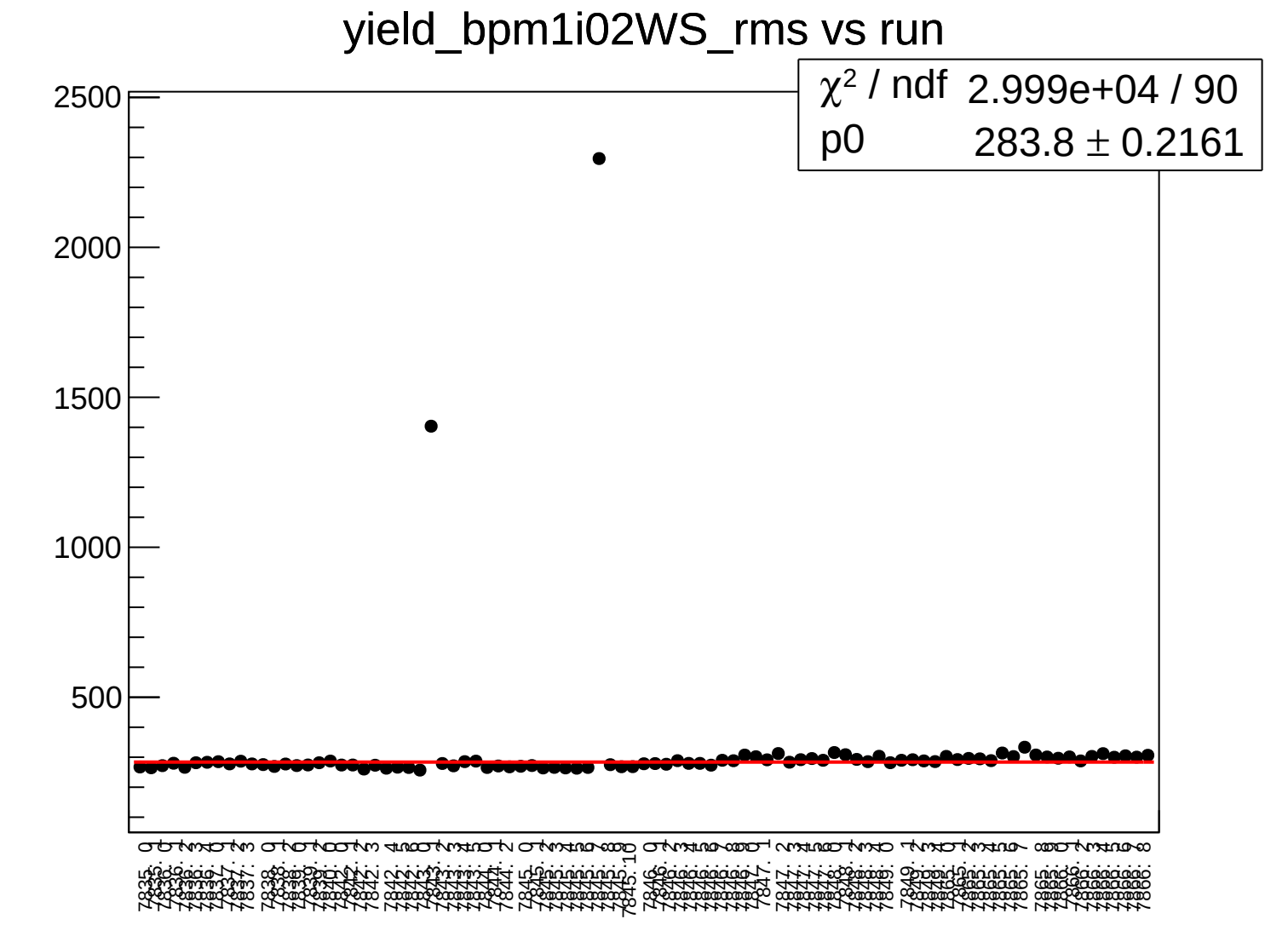

yield_bpm0i07WS_mean vs run
χ² / ndf 2.362e+05 / 90
p0 −1.37e+04 ± 0.02556
−13640
−13650
−13660
−13670
−13680
−13690
−13700
−13710
−13720
pull
Entries 91
Mean 4341
Std Dev 0
200
150
100
50
0
−50
−100

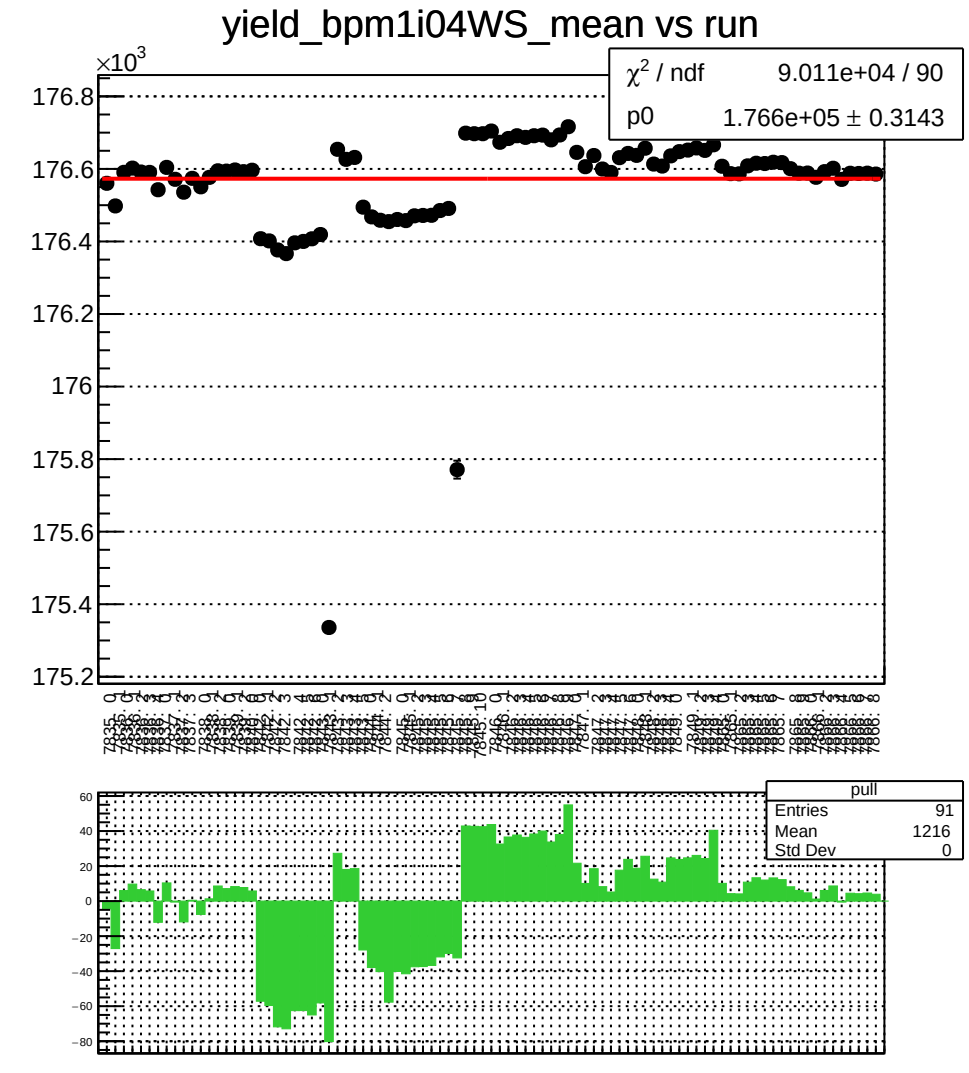

pull1D
Entries 91
Mean −1.025
Std Dev 3.838
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

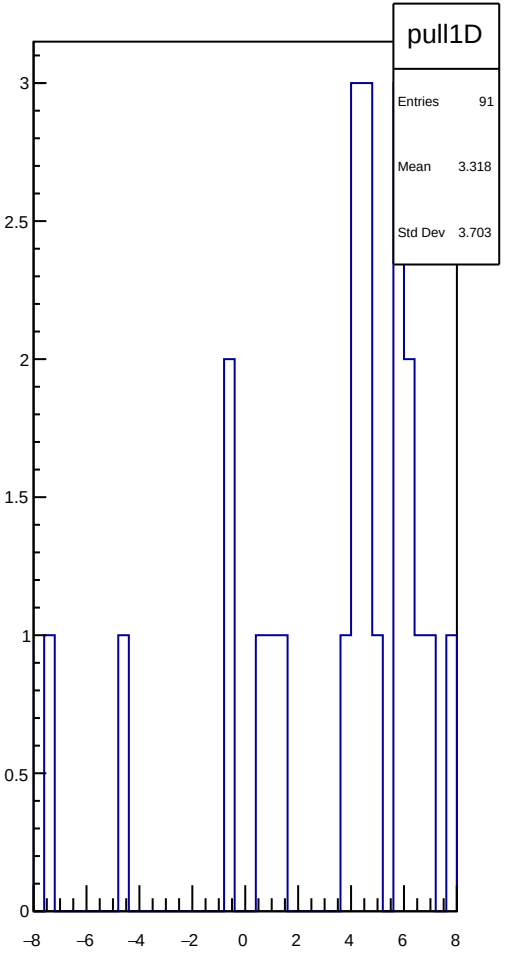

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.127e+04 / 90
p0 23.87 ± 0.01808
30
28
26
24
22
20

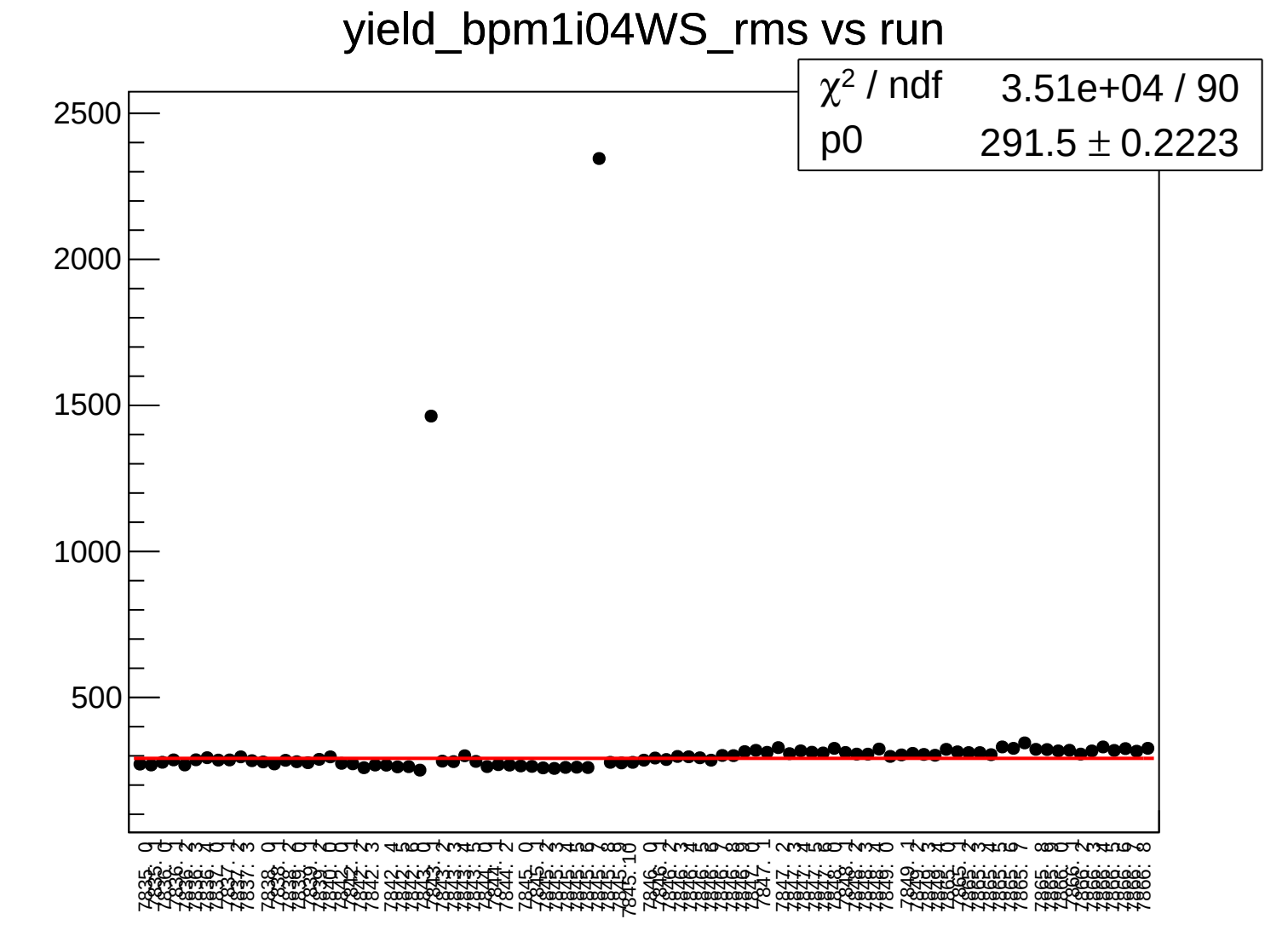

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.072e+05 / 90
p0 1.745e+05 ± 0.3056
174.8
174.6
174.4
174.2
174
173.8
173.6
173.4
pull
Entries 91
Mean 467.9
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

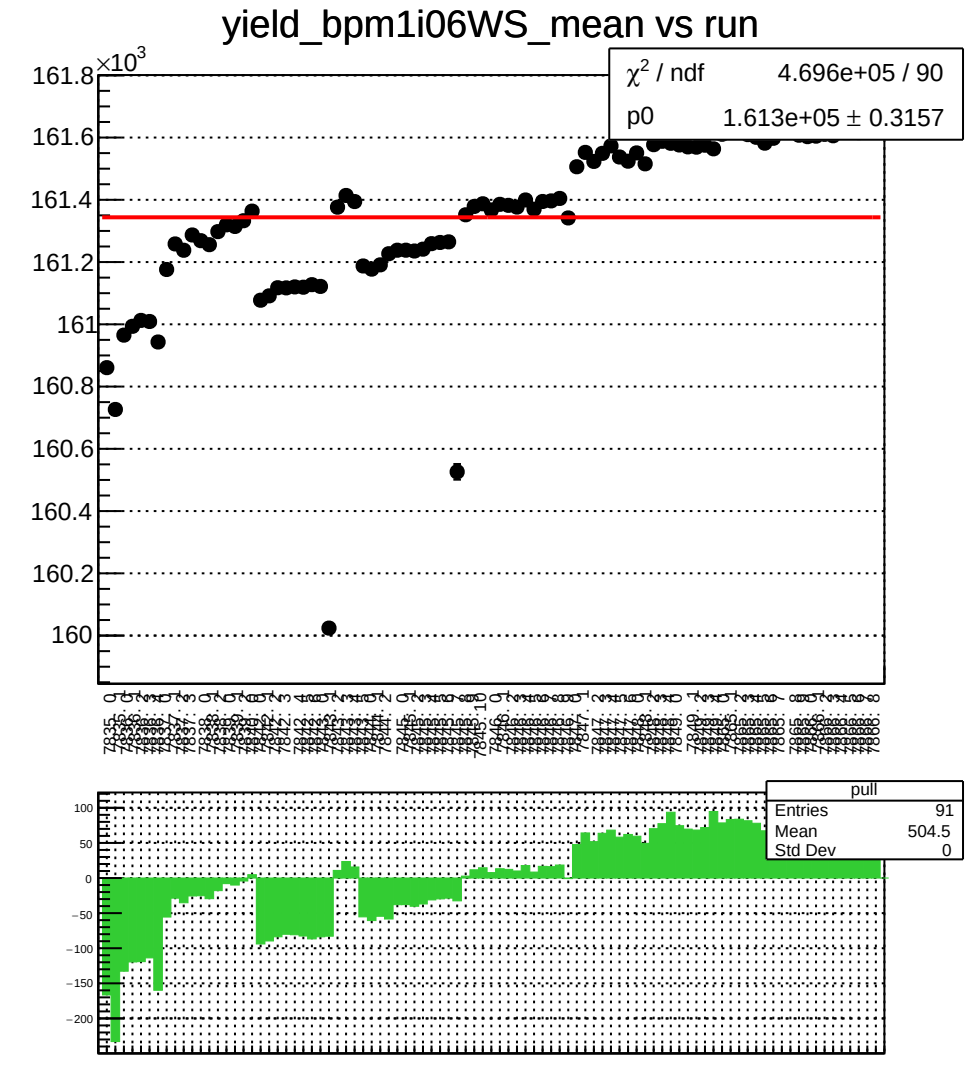

pull1D
Entries 91
Mean −1.033
Std Dev 3.091
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

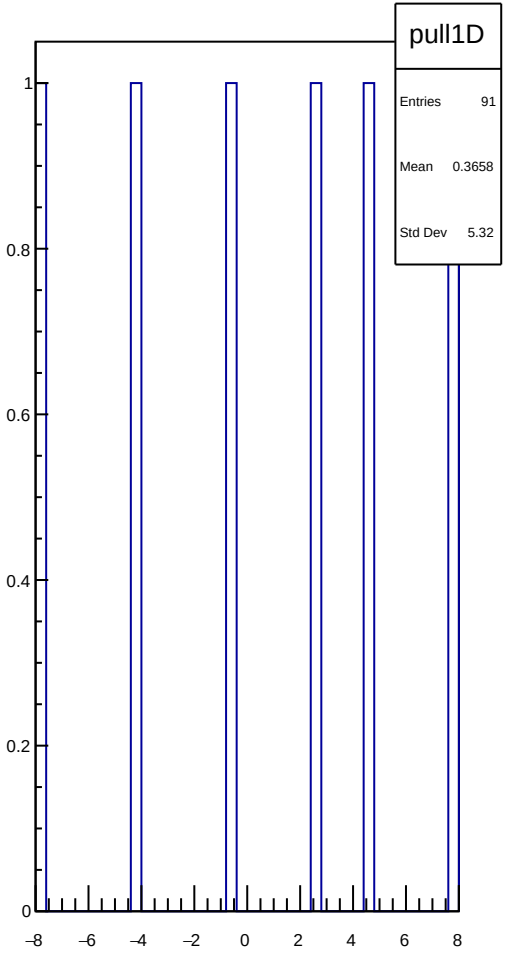

yield_bpm1i02WS_rms vs run
χ² / ndf 2.999e+04 / 90
p0 283.8 ± 0.2161
2500
2000
1500
1000
500

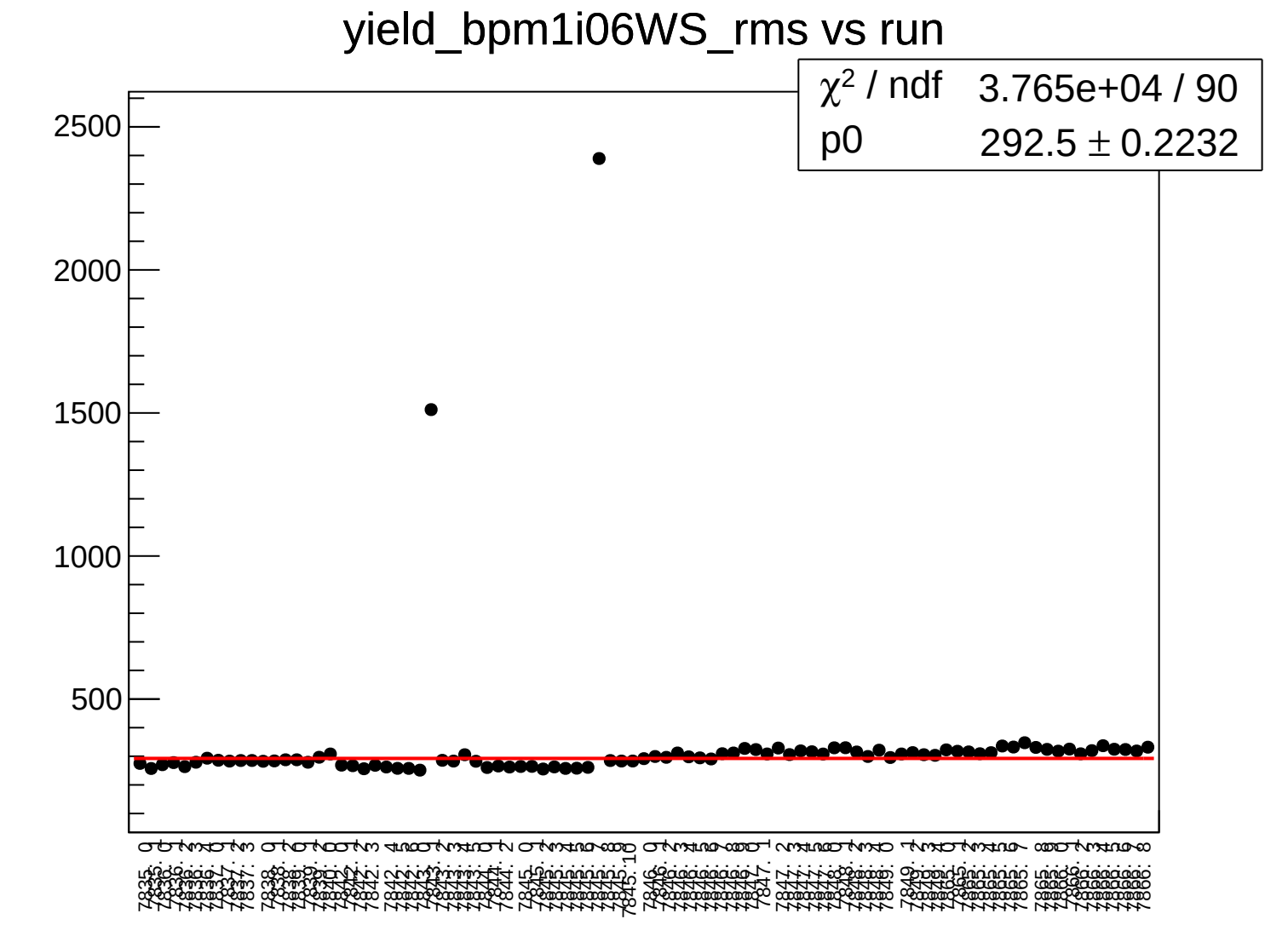

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 9.011e+04 / 90
p0 1.766e+05 ± 0.3143
176.8
176.6
176.4
176.2
176
175.8
175.6
175.4
175.2
pull
Entries 91
Mean 1216
Std Dev 0
60
40
20
0
−20
−40
−60
−80

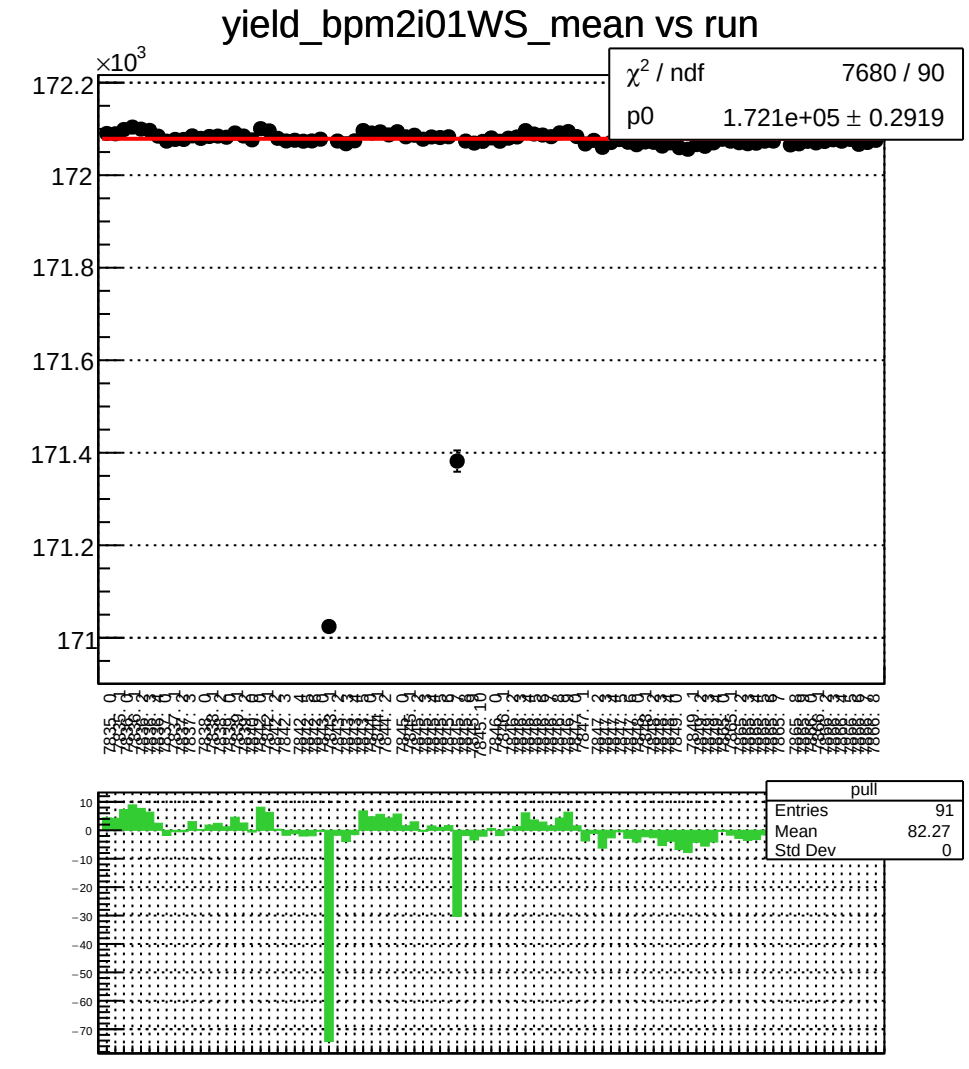

pull1D
Entries 91
Mean 3.318
Std Dev 3.703
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

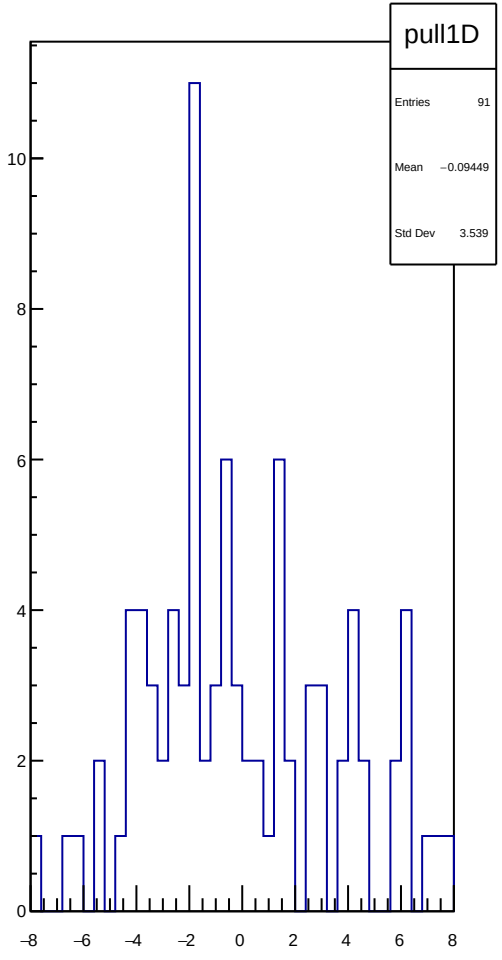

yield_bpm1i04WS_rms vs run
χ² / ndf 3.51e+04 / 90
p0 291.5 ± 0.2223
2500
2000
1500
1000
500

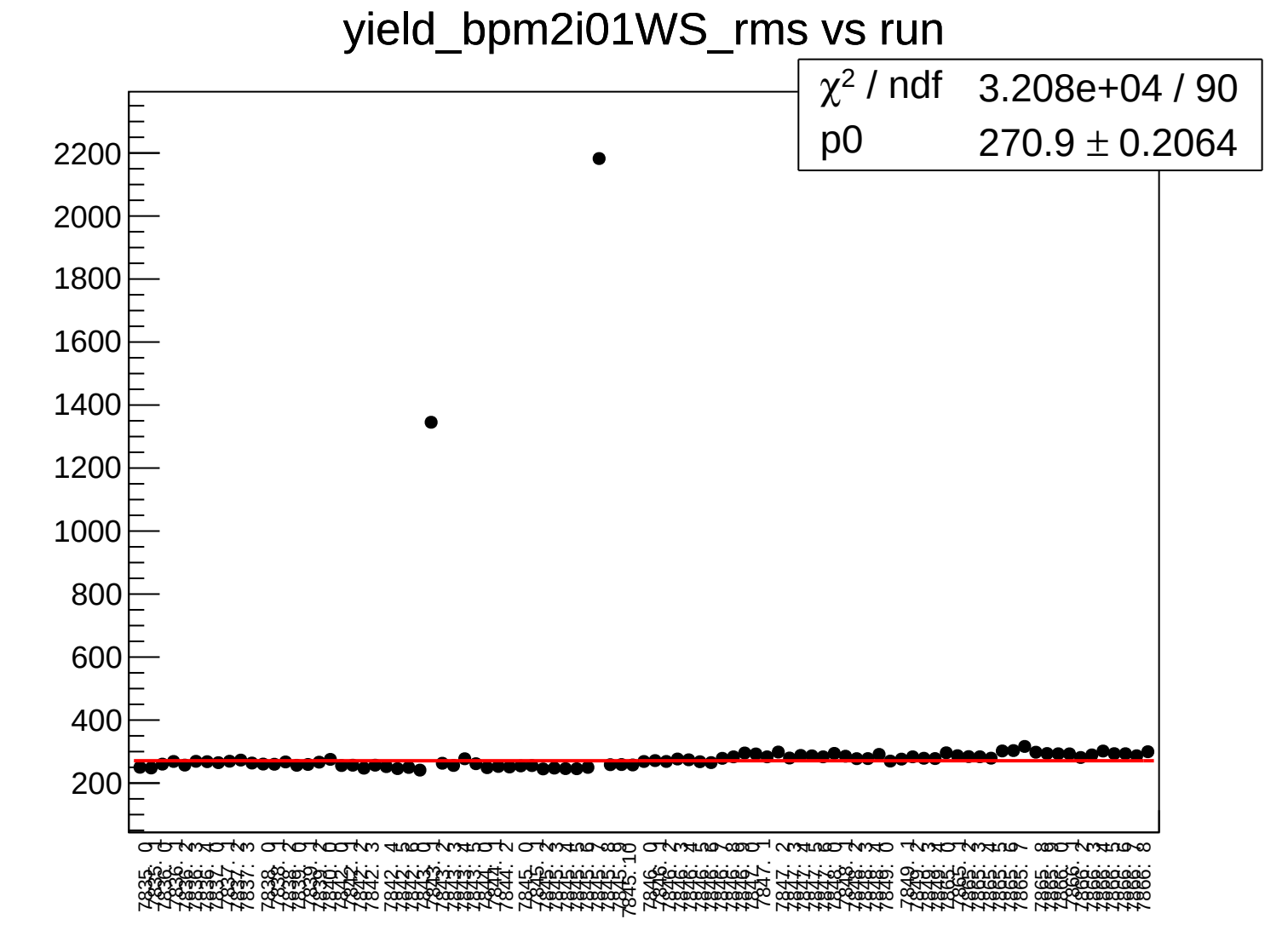

yield_bpm1i06WS_mean vs run
χ² / ndf 4.696e+05 / 90
p0 1.613e+05 ± 0.3157
×10³
161.8
161.6
161.4
161.2
161
160.8
160.6
160.4
160.2
160
pull
Entries 91
Mean 504.5
Std Dev 0
100
50
0
−50
−100
−150
−200

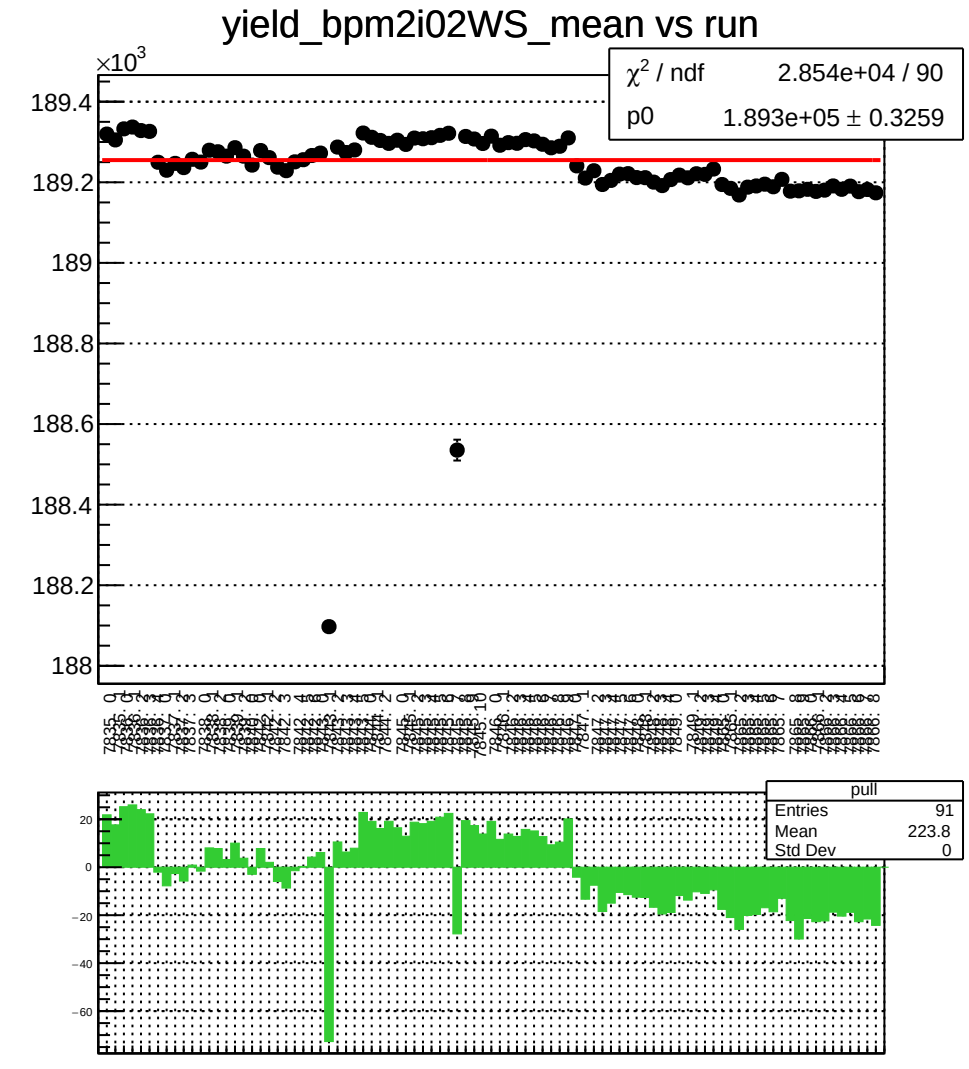

pull1D
Entries 91
Mean 0.3658
Std Dev 5.32
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

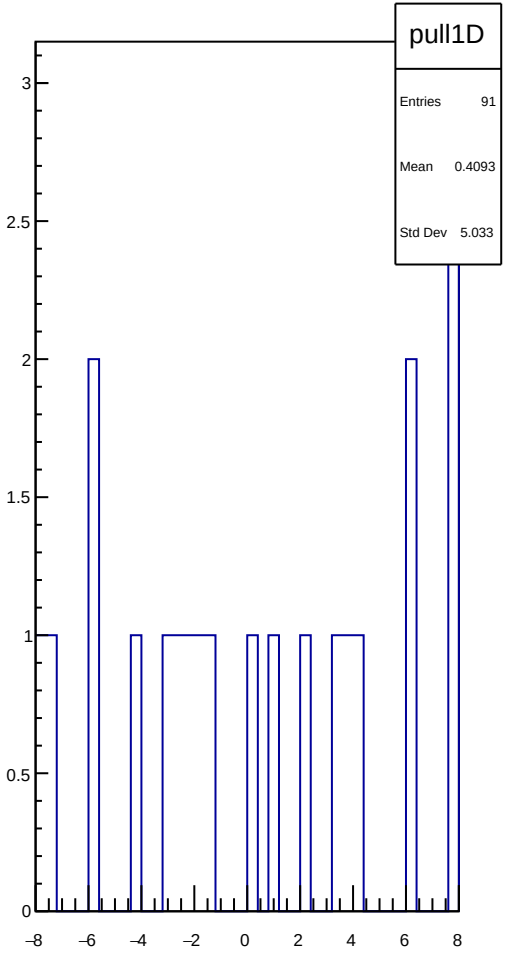

yield_bpm1i06WS_rms vs run
χ² / ndf 3.765e+04 / 90
p0 292.5 ± 0.2232
2500
2000
1500
1000
500

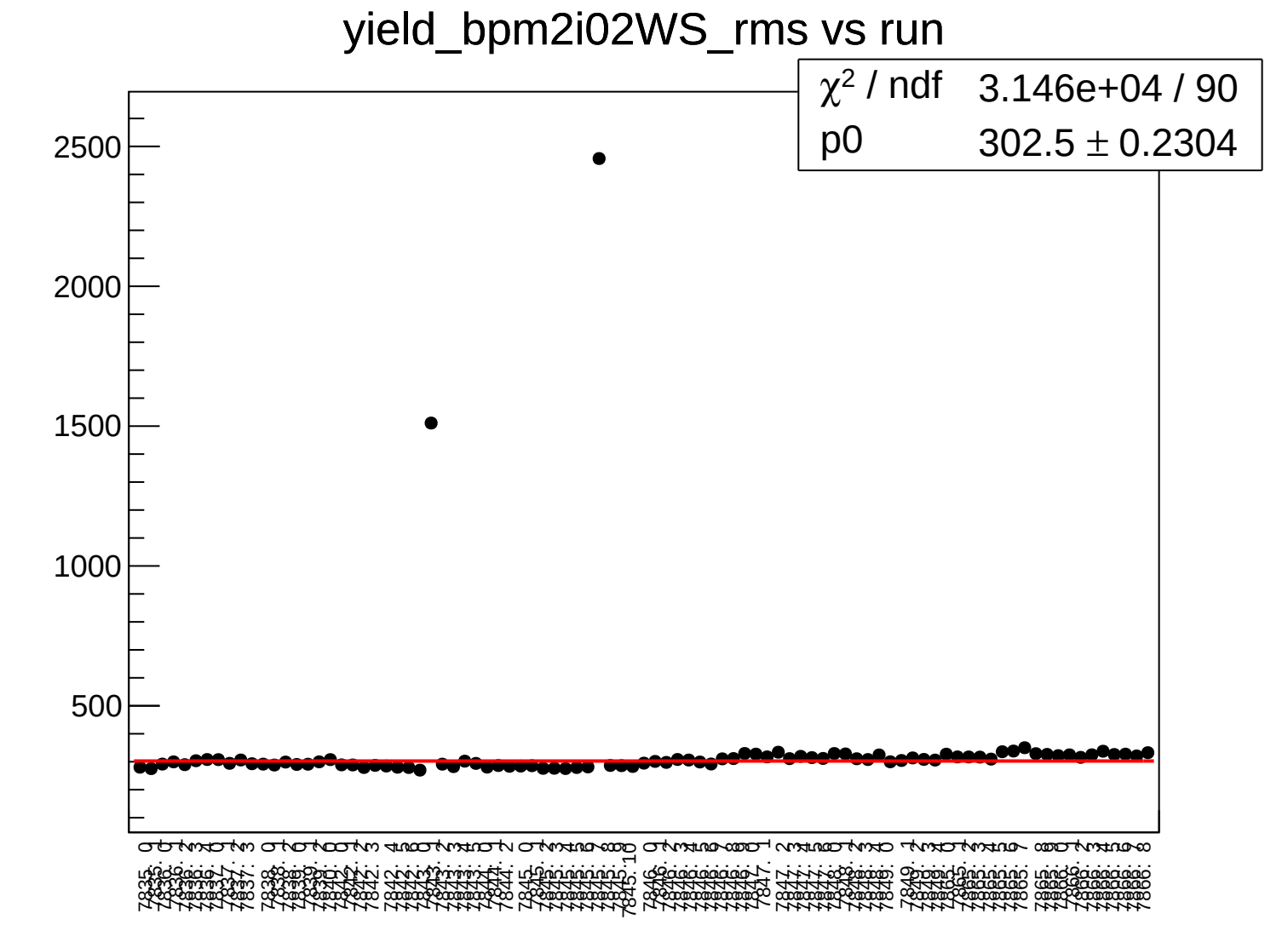

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7680 / 90
p0 1.721e+05 ± 0.2919
172.2
172
171.8
171.6
171.4
171.2
171
pull
Entries 91
Mean 82.27
Std Dev 0
10
0
−10
−20
−30
−40
−50
−60
−70

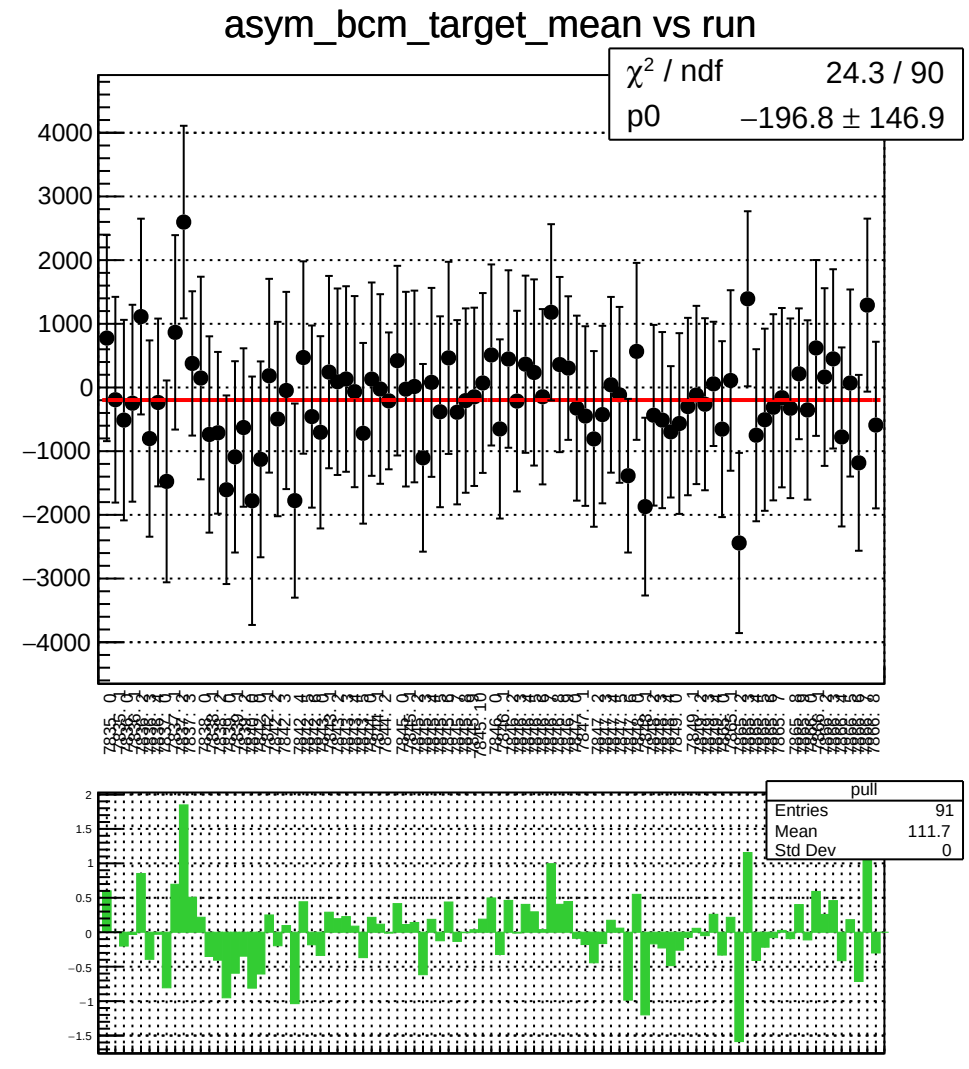

pull1D
Entries 91
Mean −0.09449
Std Dev 3.539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

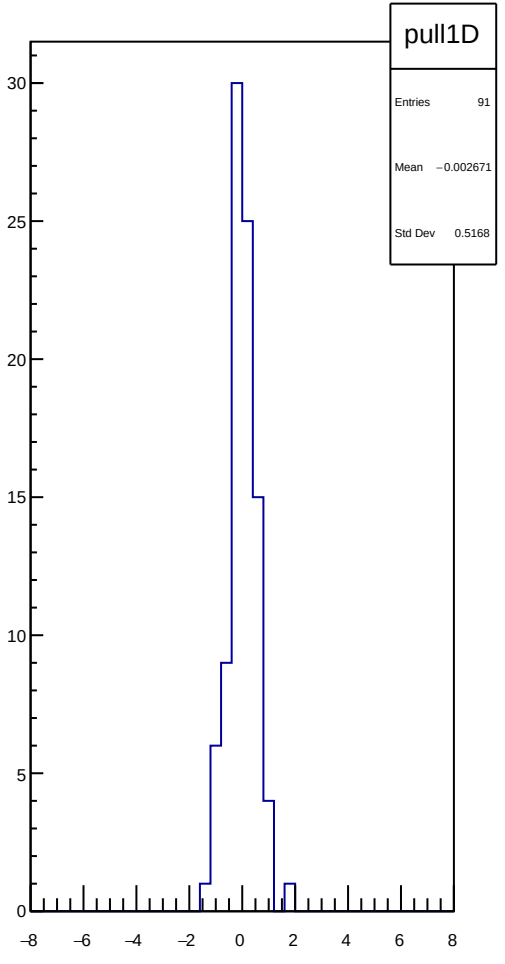

yield_bpm2i01WS_rms vs run
χ² / ndf 3.208e+04 / 90
p0 270.9 ± 0.2064
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

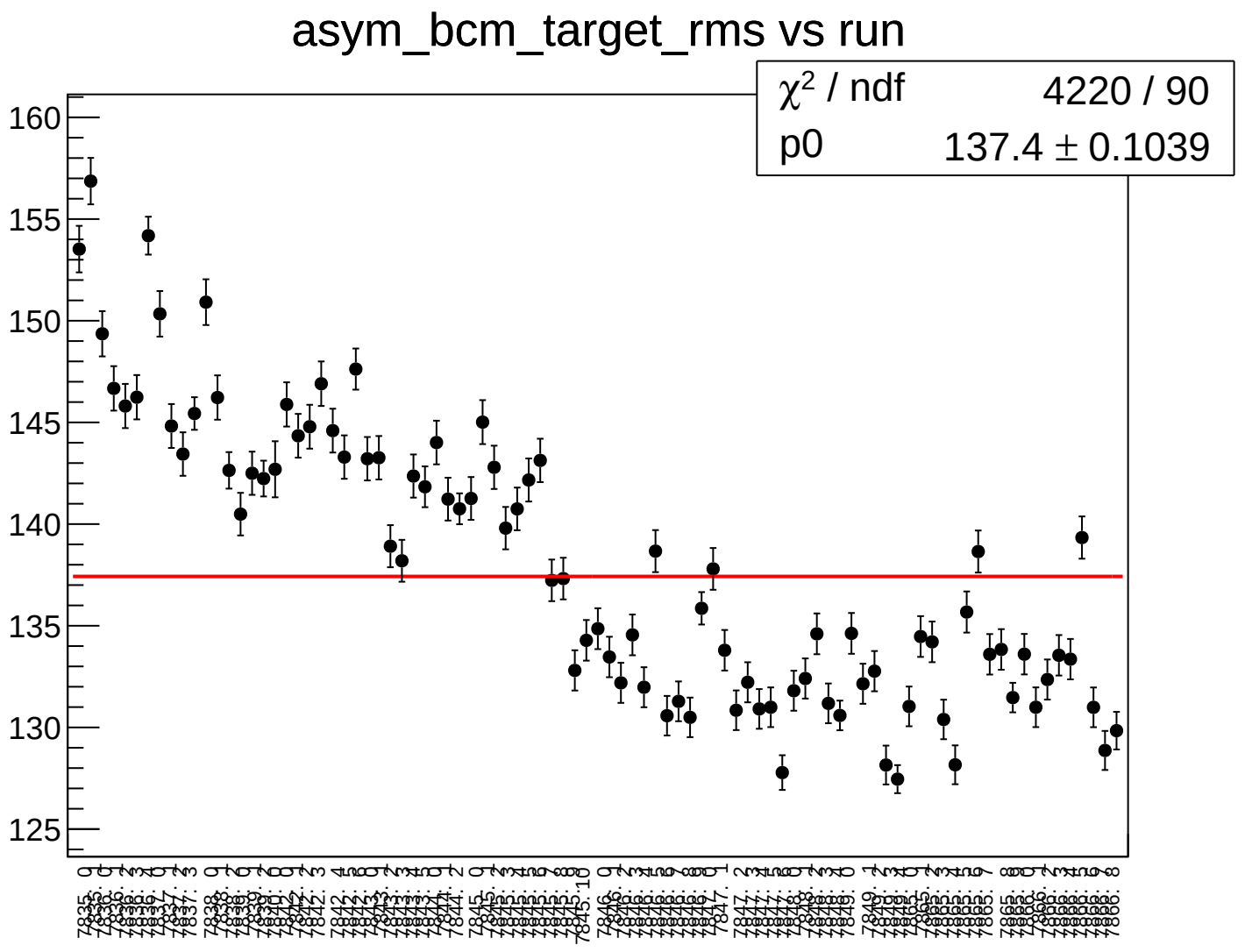

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.854e+04 / 90
p0 1.893e+05 ± 0.3259
189.4
189.2
189
188.8
188.6
188.4
188.2
188
pull
Entries 91
Mean 223.8
Std Dev 0
20
0
−20
−40
−60

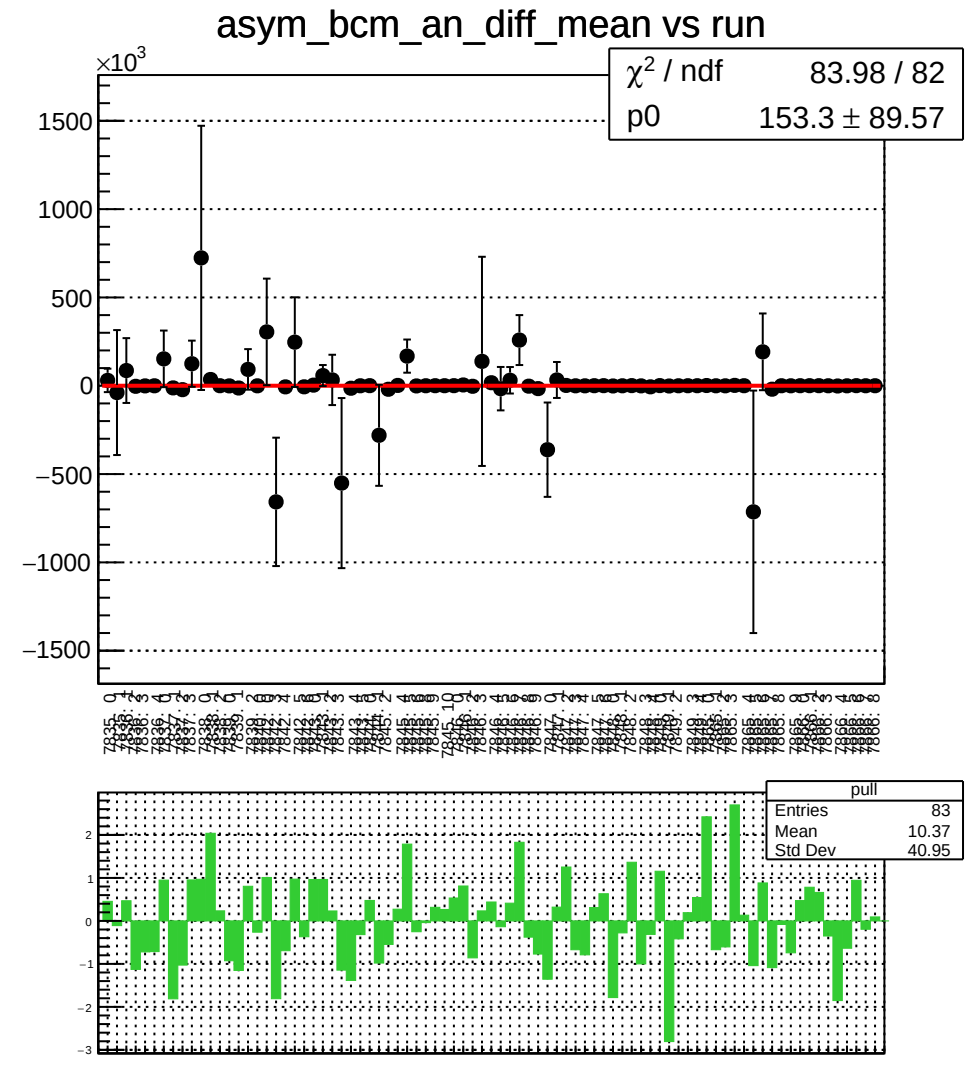

pull1D
Entries 91
Mean 0.4093
Std Dev 5.033
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

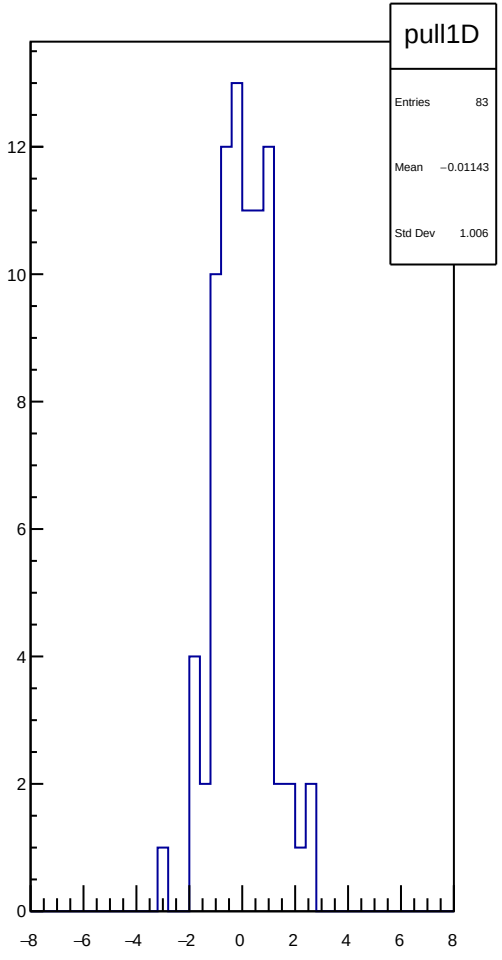

yield_bpm2i02WS_rms vs run
χ² / ndf 3.146e+04 / 90
p0 302.5 ± 0.2304
2500
2000
1500
1000
500

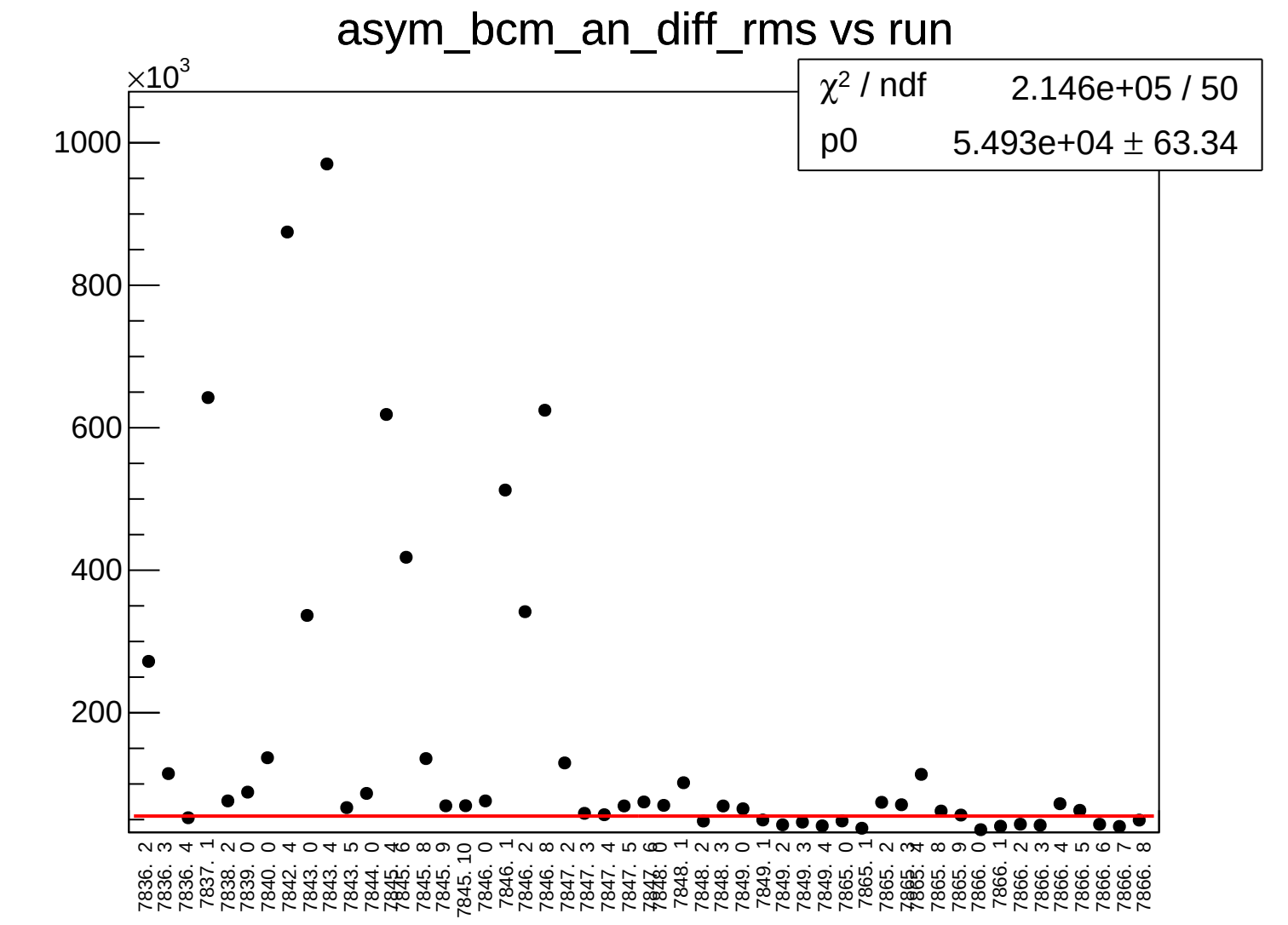

asym_bcm_target_mean vs run
χ² / ndf 24.3 / 90
p0 −196.8 ± 146.9
pull
Entries 91
Mean 111.7
Std Dev 0

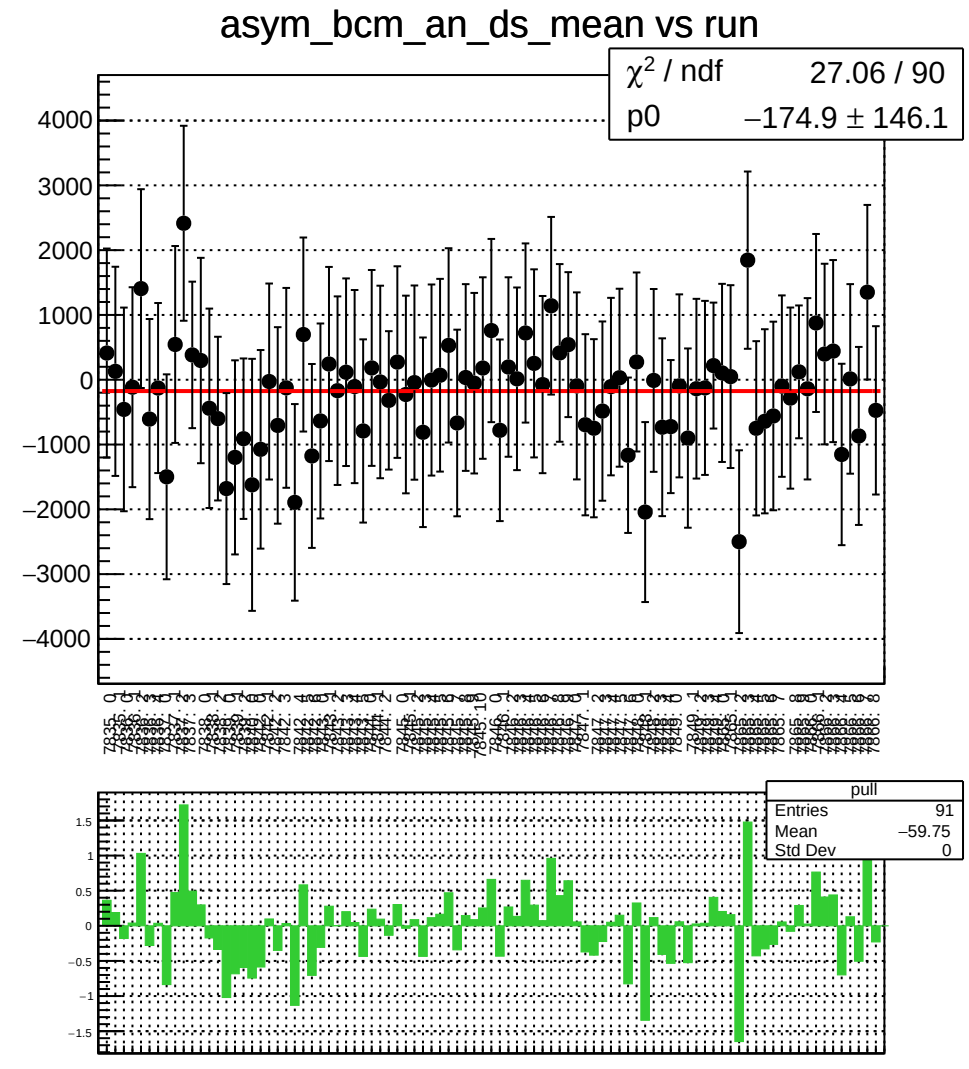

pull1D
Entries 91
Mean −0.002671
Std Dev 0.5168

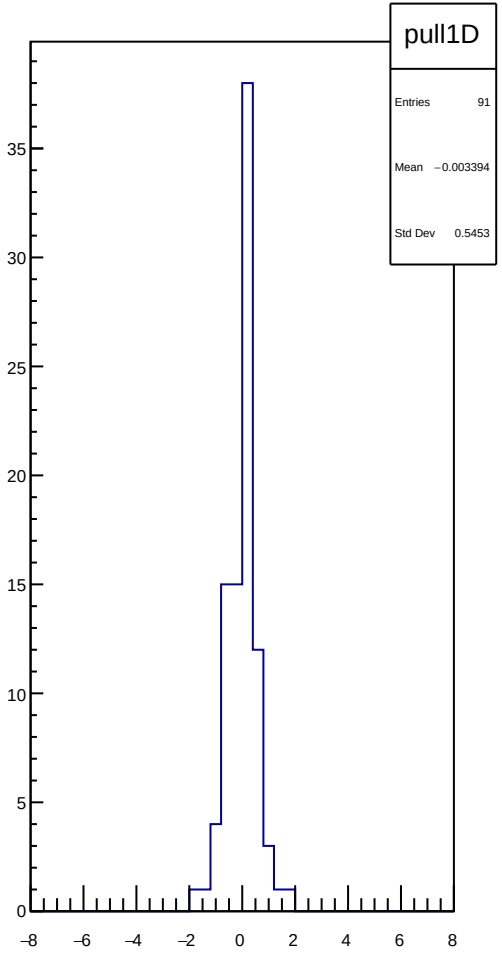

asym_bcm_target_rms vs run
χ² / ndf 4220 / 90
p0 137.4 ± 0.1039
160
155
150
145
140
135
130
125

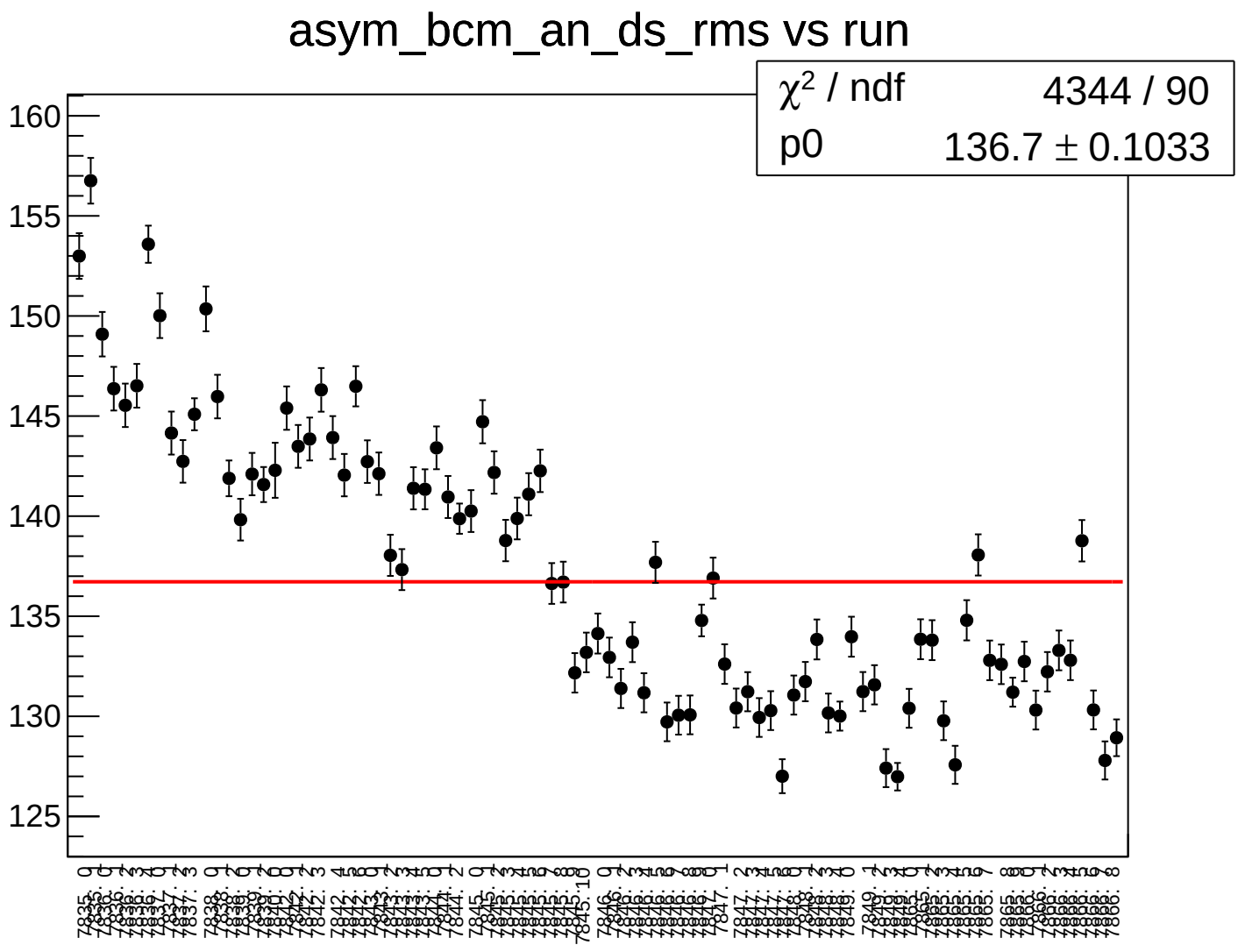

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 83.98 / 82
p0 153.3 ± 89.57
1500
1000
500
0
−500
−1000
−1500
pull
Entries 83
Mean 10.37
Std Dev 40.95
2
1
0
−1
−2
−3

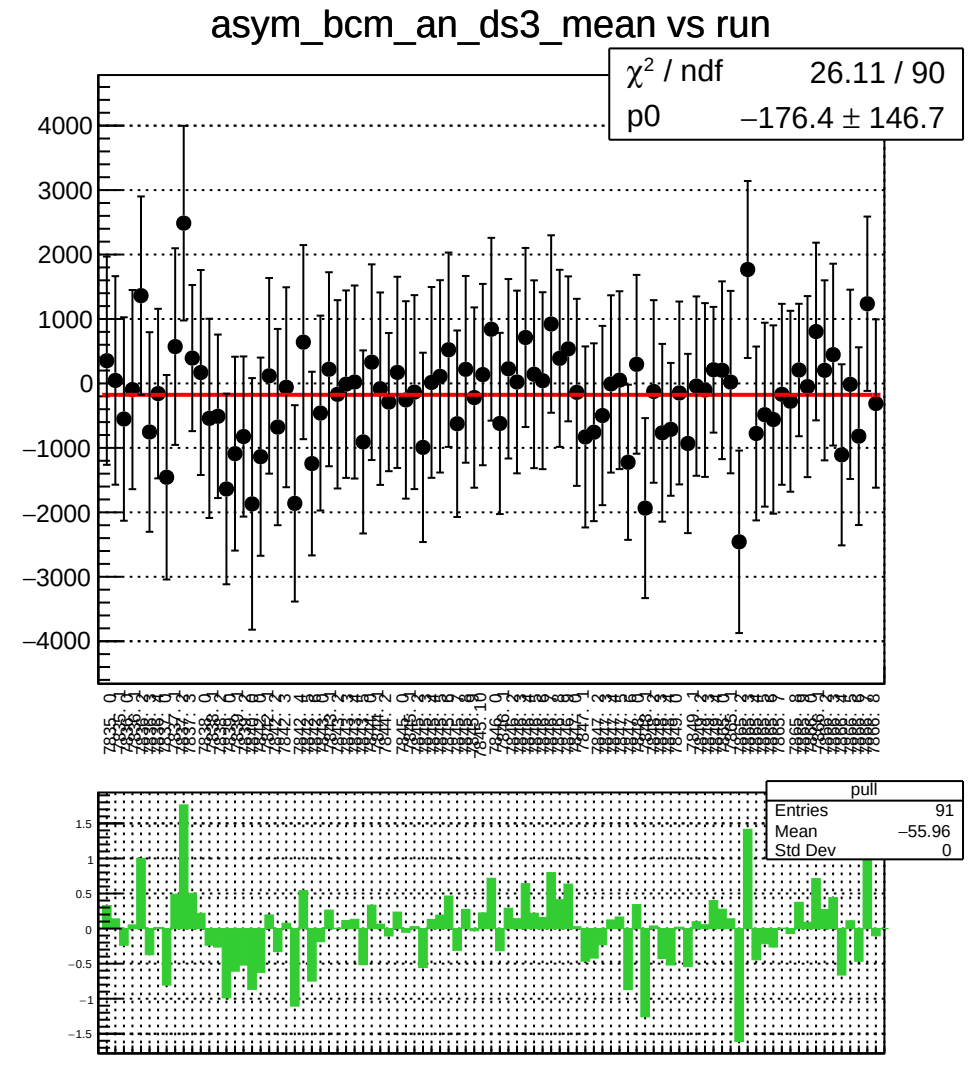

pull1D
Entries 83
Mean −0.01143
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

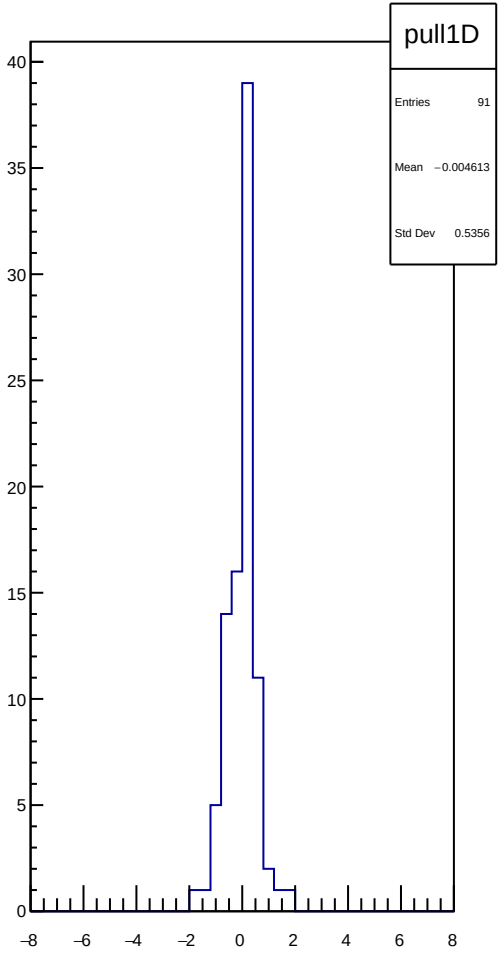

asym_bcm_an_diff_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.146e+05 / 50
p0 5.493e+04 ± 63.34
7836. 2
7836. 3
7836. 4
7837. 1
7838. 2
7839. 0
7840. 0
7842. 4
7843. 0
7843. 4
7843. 5
7844. 0
7845. 4
7845. 6
7845. 8
7845. 9
7845. 10
7846. 0
7846. 1
7846. 2
7846. 8
7847. 2
7847. 3
7847. 4
7847. 5
7848. 1
7848. 2
7848. 3
7849. 0
7849. 1
7849. 2
7849. 3
7849. 4
7865. 0
7865. 1
7865. 2
7865. 8
7865. 9
7866. 0
7866. 1
7866. 2
7866. 3
7866. 4
7866. 5
7866. 6
7866. 7
7866. 8

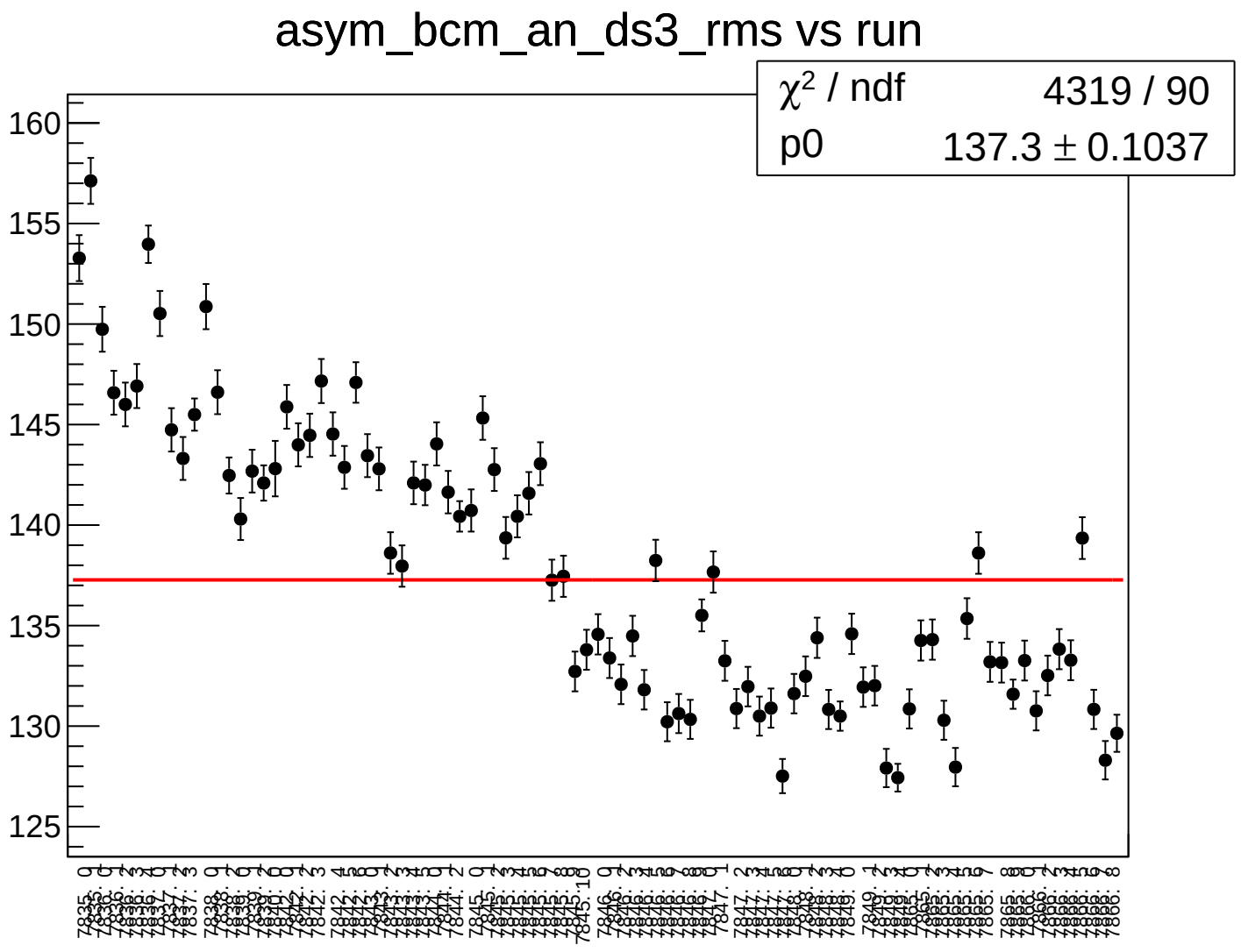

asym_bcm_an_ds_mean vs run
χ² / ndf 27.06 / 90
p0 −174.9 ± 146.1
pull
Entries 91
Mean −59.75
Std Dev 0

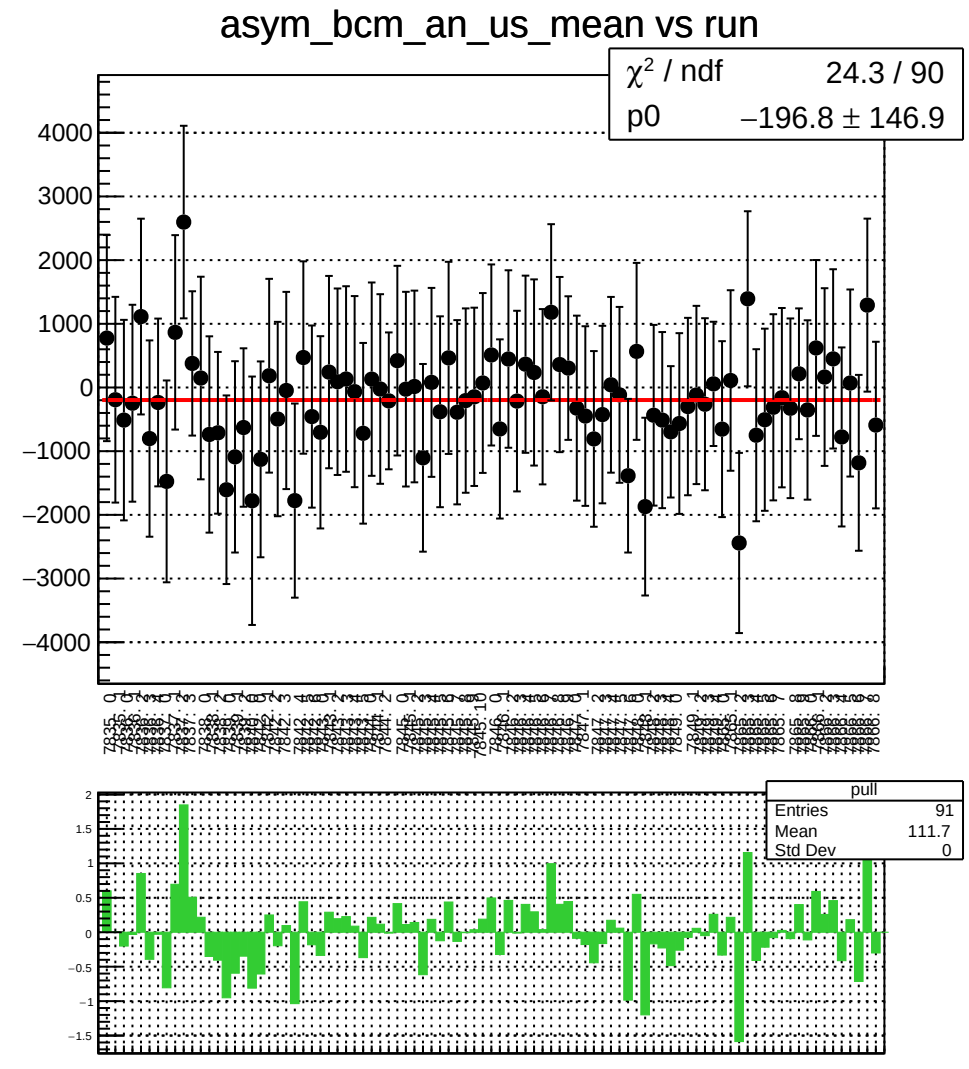

pull1D
Entries 91
Mean −0.003394
Std Dev 0.5453

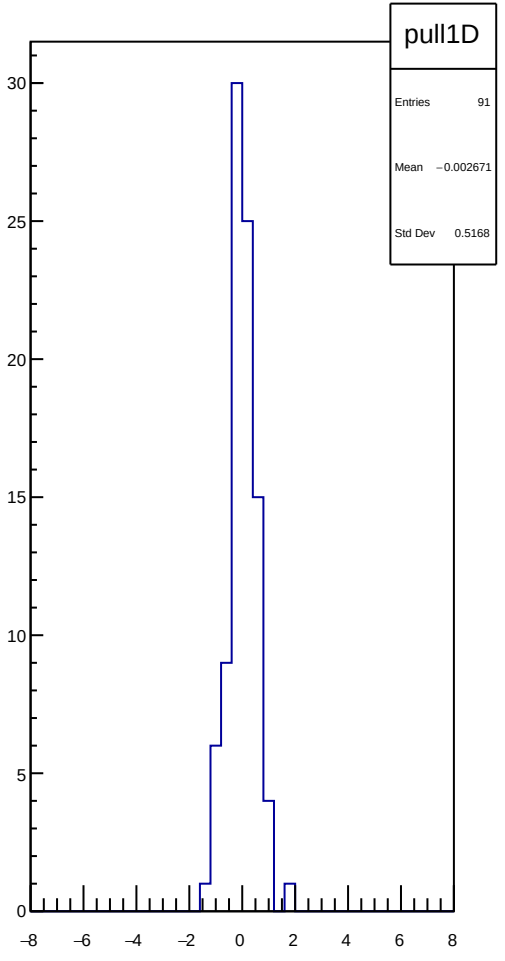

asym_bcm_an_ds_rms vs run
χ² / ndf 4344 / 90
p0 136.7 ± 0.1033
160
155
150
145
140
135
130
125

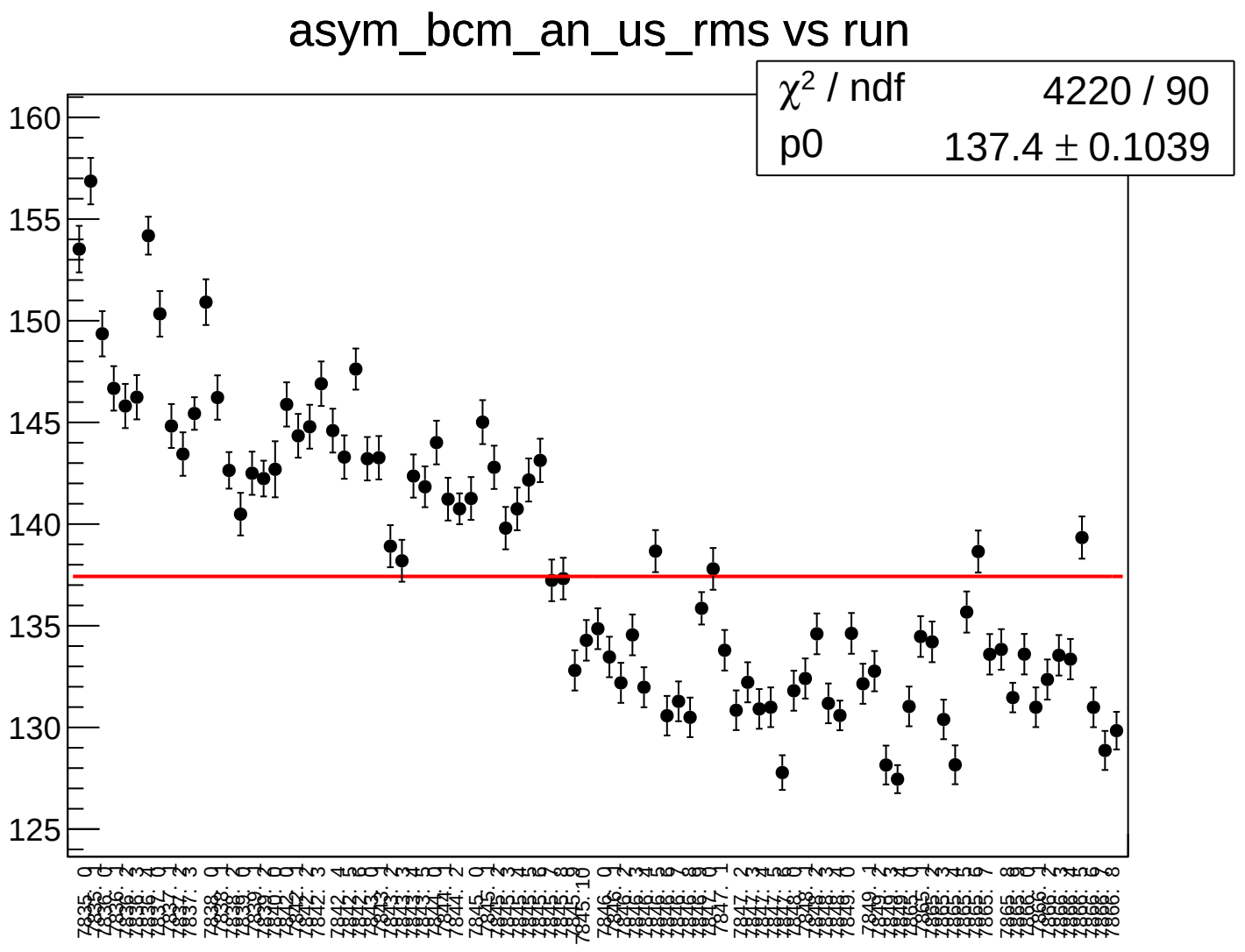

asym_bcm_an_ds3_mean vs run
χ² / ndf 26.11 / 90
p0 −176.4 ± 146.7
pull
Entries 91
Mean −55.96
Std Dev 0

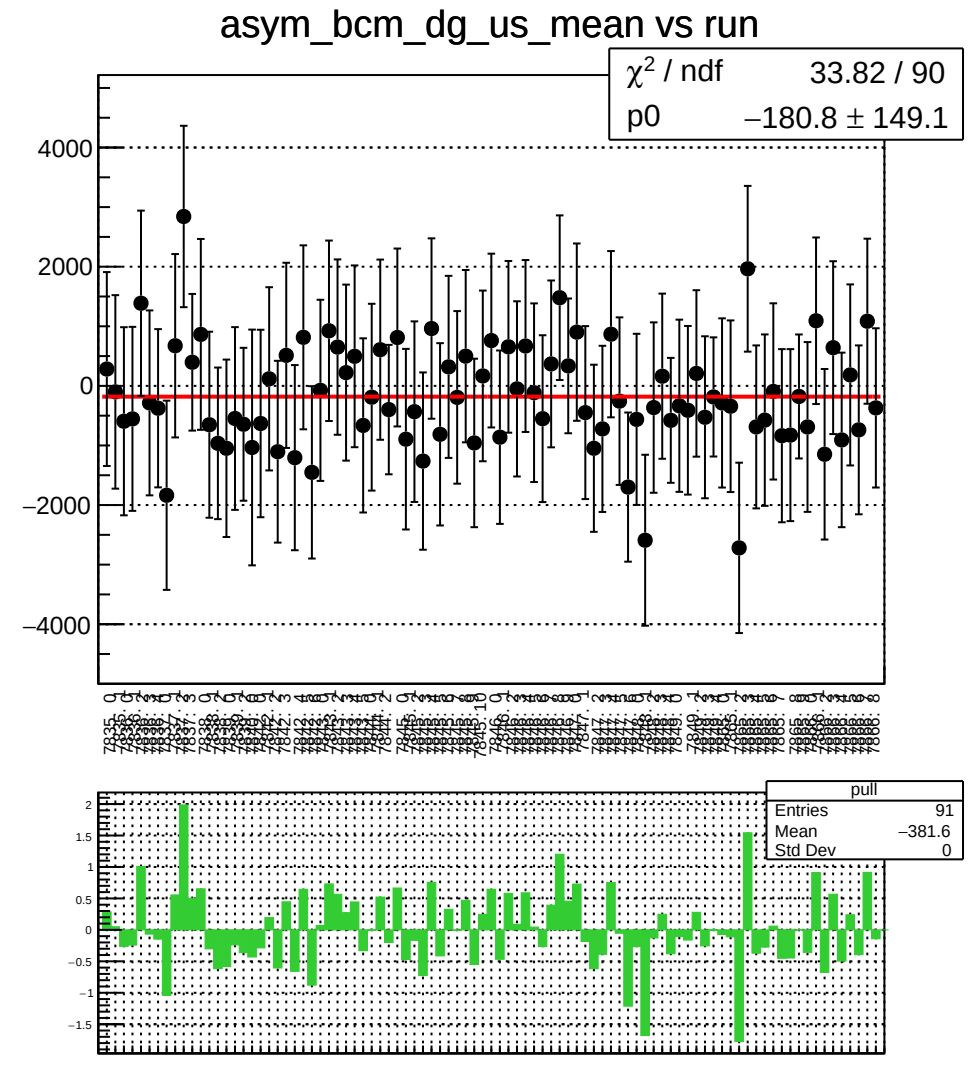

pull1D
Entries 91
Mean −0.004613
Std Dev 0.5356

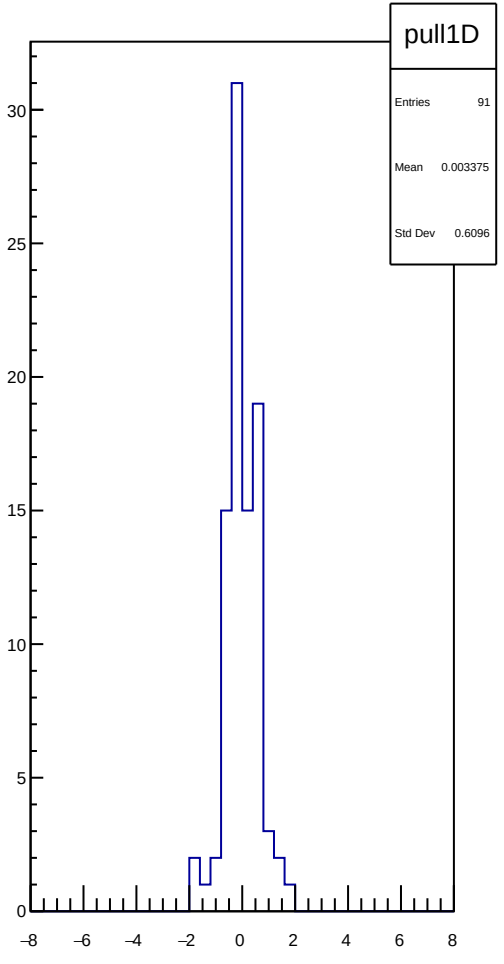

asym_bcm_an_ds3_rms vs run
χ² / ndf 4319 / 90
p0 137.3 ± 0.1037
160
155
150
145
140
135
130
125

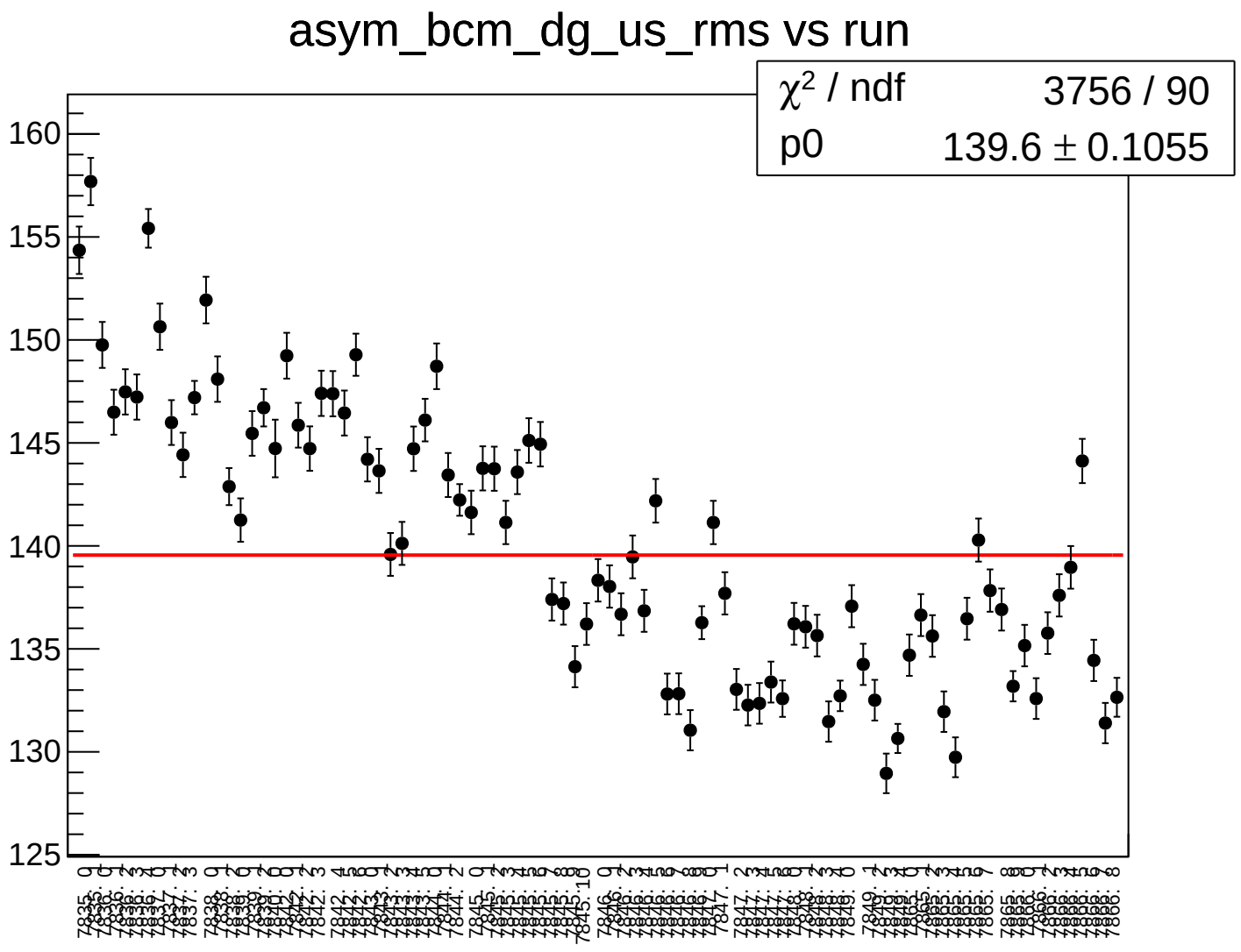

asym_bcm_an_us_mean vs run
χ² / ndf 24.3 / 90
p0 −196.8 ± 146.9
pull
Entries 91
Mean 111.7
Std Dev 0

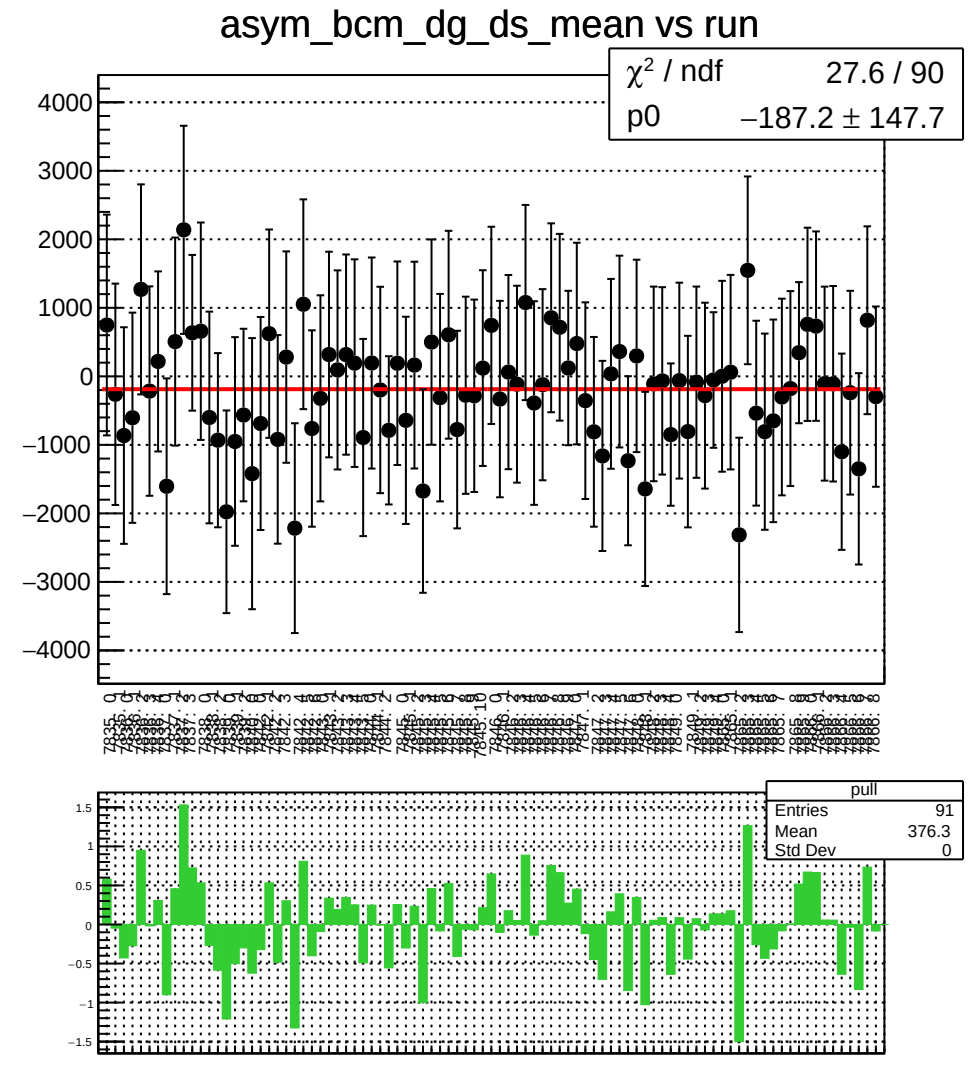

pull1D
Entries 91
Mean −0.002671
Std Dev 0.5168

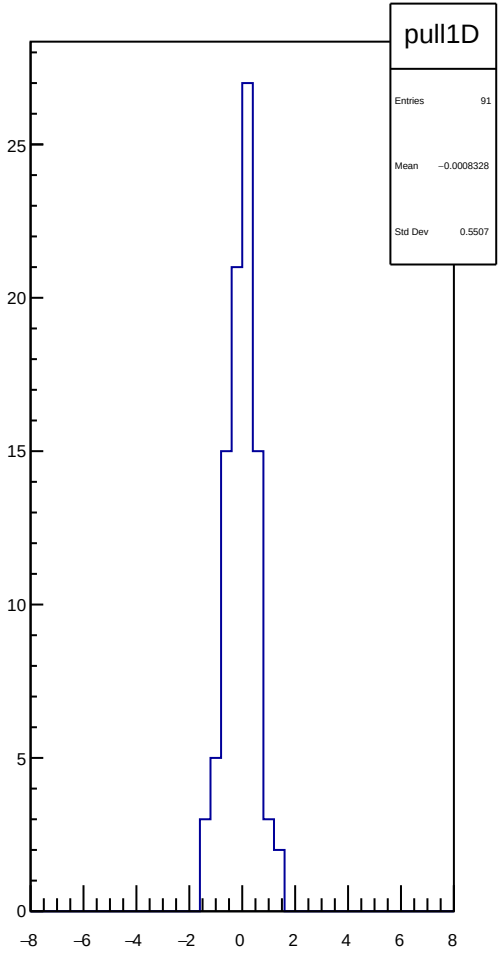

asym_bcm_an_us_rms vs run
χ² / ndf 4220 / 90
p0 137.4 ± 0.1039
160
155
150
145
140
135
130
125

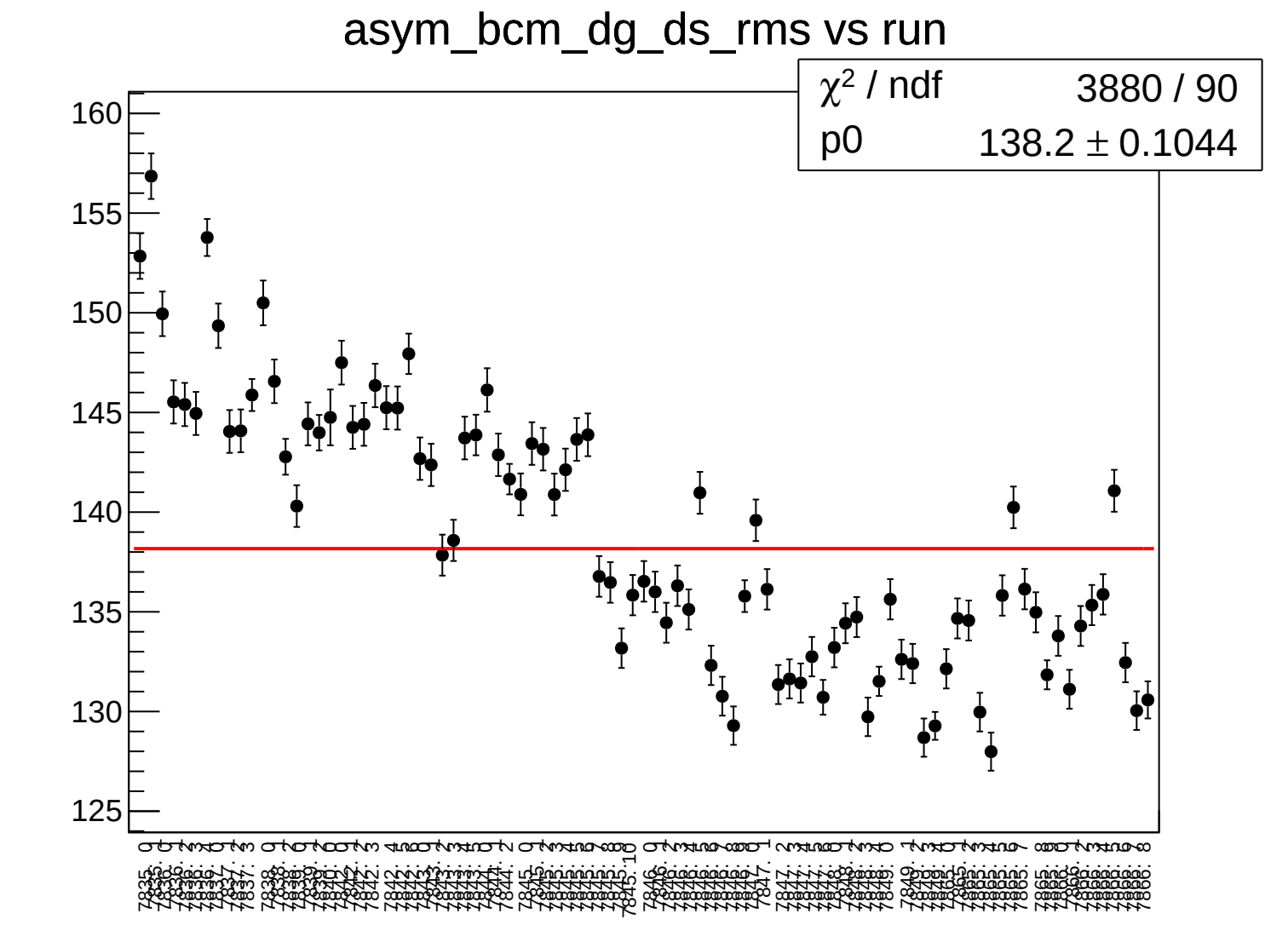

asym_bcm_dg_us_mean vs run
χ² / ndf 33.82 / 90
p0 −180.8 ± 149.1
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −381.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

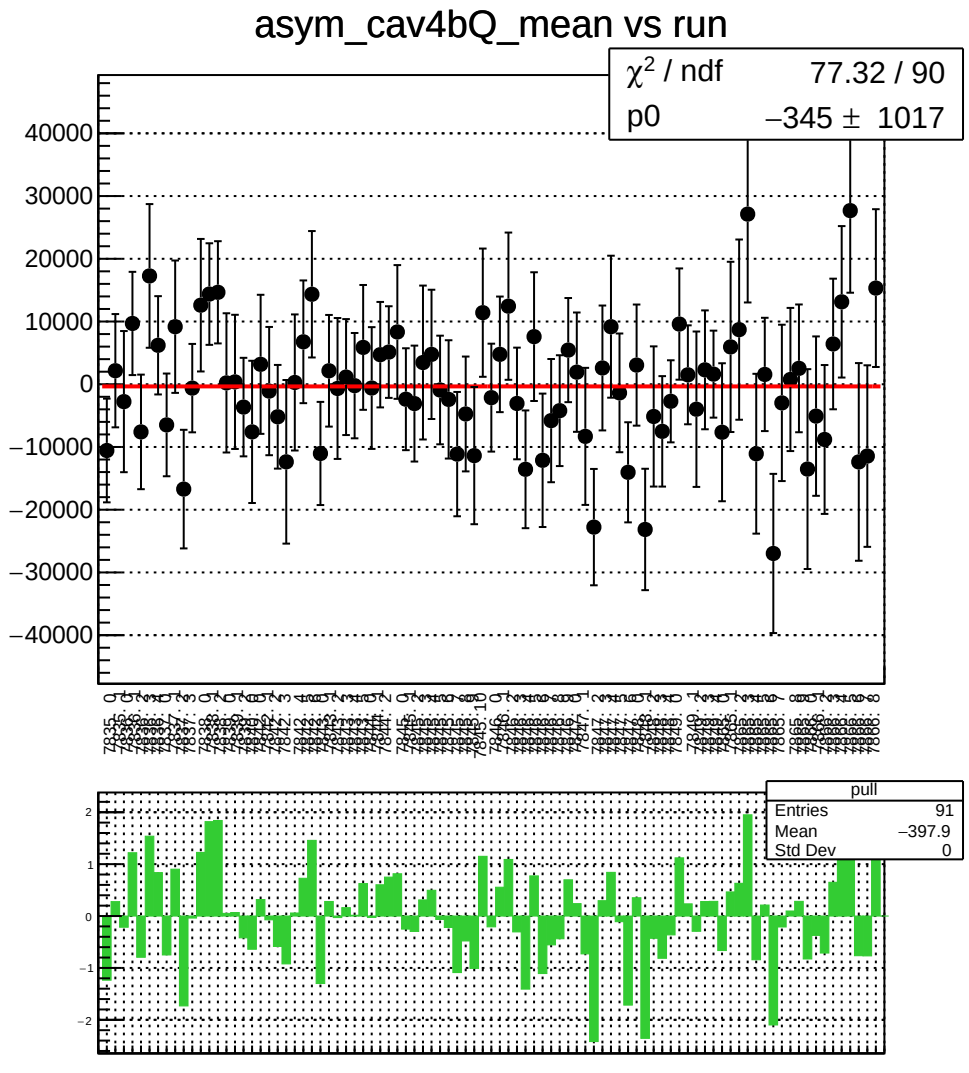

pull1D
Entries 91
Mean 0.003375
Std Dev 0.6096
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

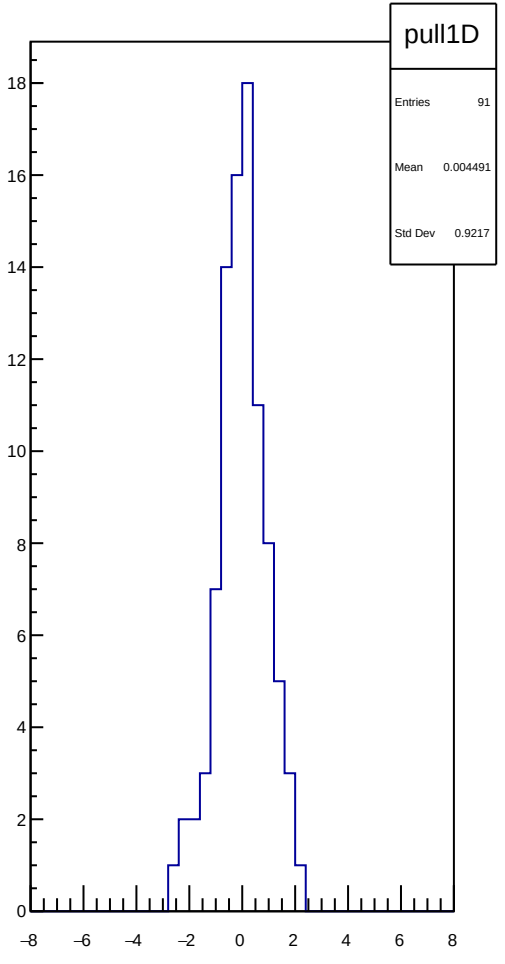

asym_bcm_dg_us_rms vs run
χ² / ndf 3756 / 90
p0 139.6 ± 0.1055
160
155
150
145
140
135
130
125

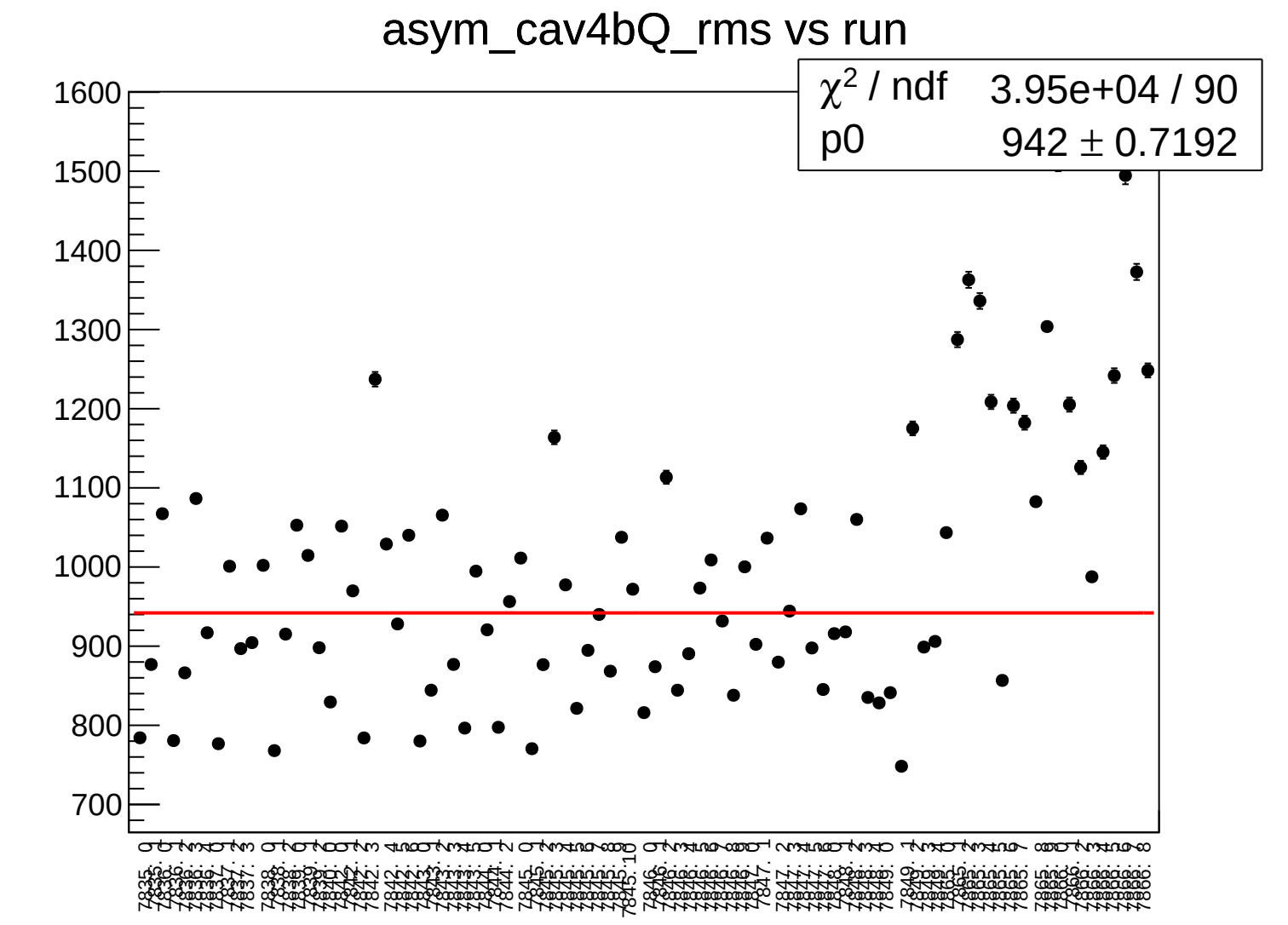

asym_bcm_dg_ds_mean vs run
χ² / ndf 27.6 / 90
p0 −187.2 ± 147.7
pull
Entries 91
Mean 376.3
Std Dev 0

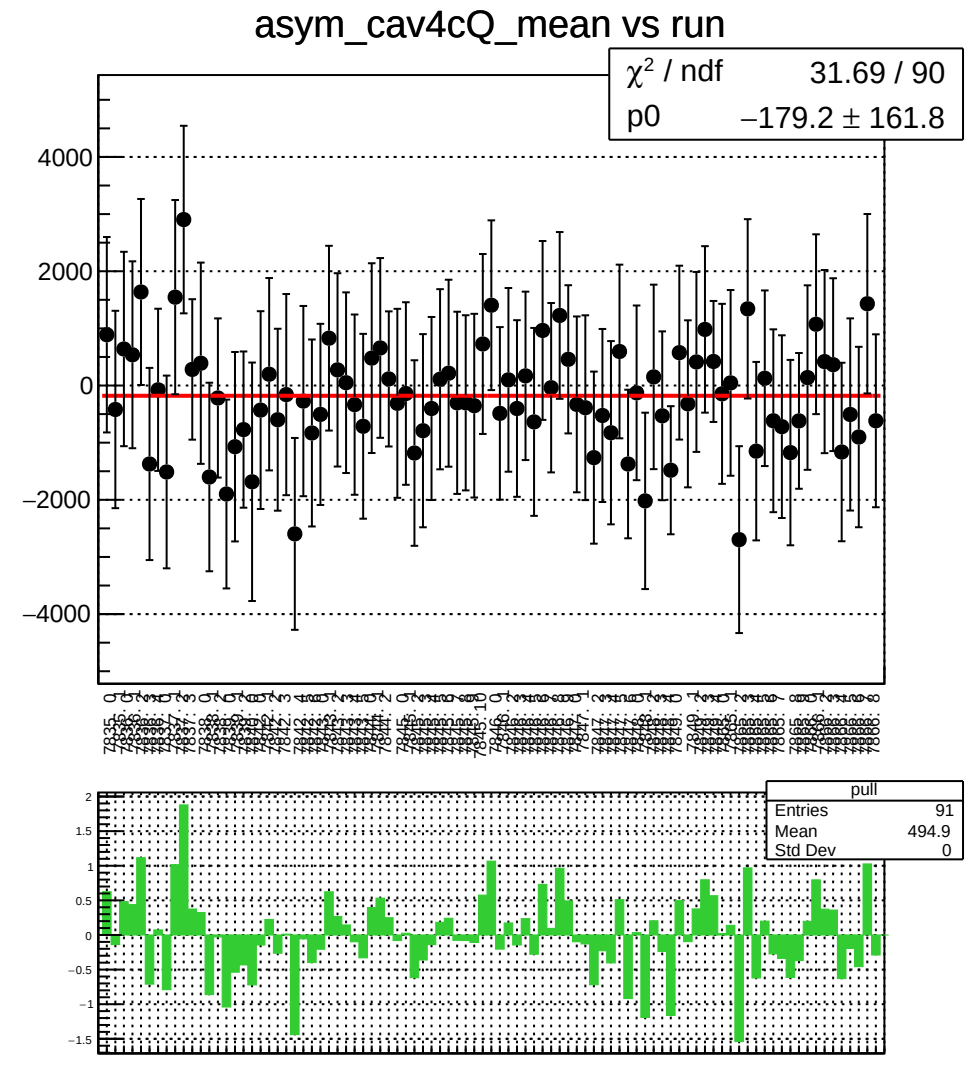

pull1D
Entries 91
Mean −0.0008328
Std Dev 0.5507

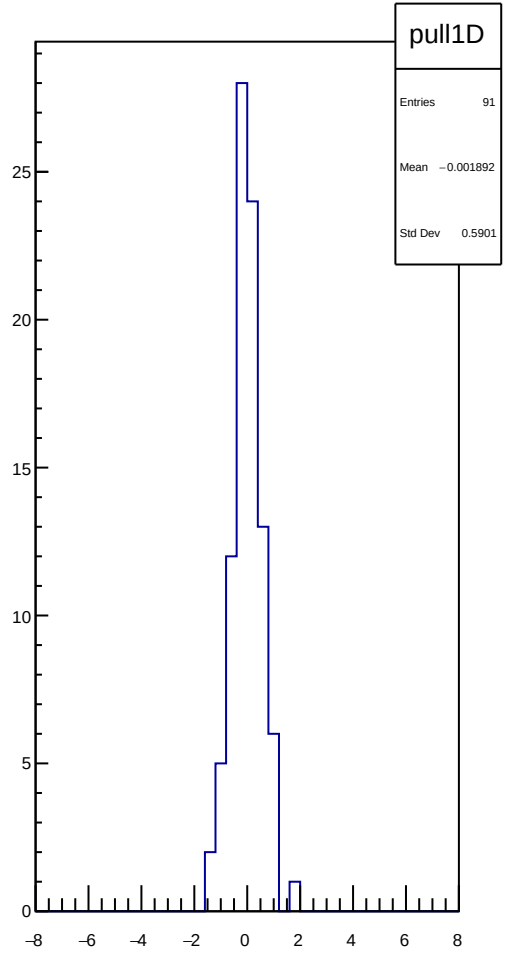

asym_bcm_dg_ds_rms vs run
χ² / ndf 3880 / 90
p0 138.2 ± 0.1044
160
155
150
145
140
135
130
125

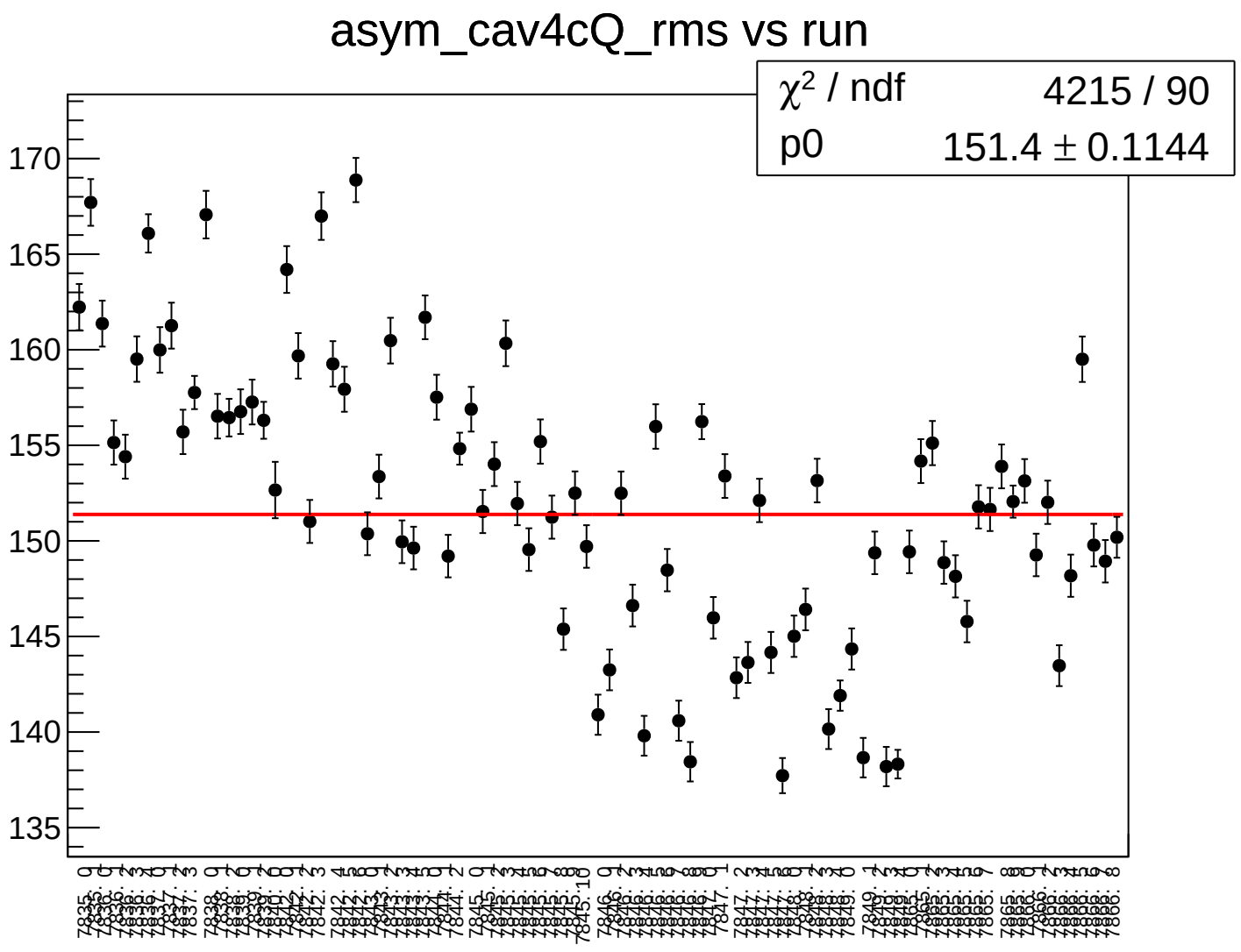

asym_cav4bQ_mean vs run
χ² / ndf 77.32 / 90
p0 −345 ± 1017
pull
Entries 91
Mean −397.9
Std Dev 0

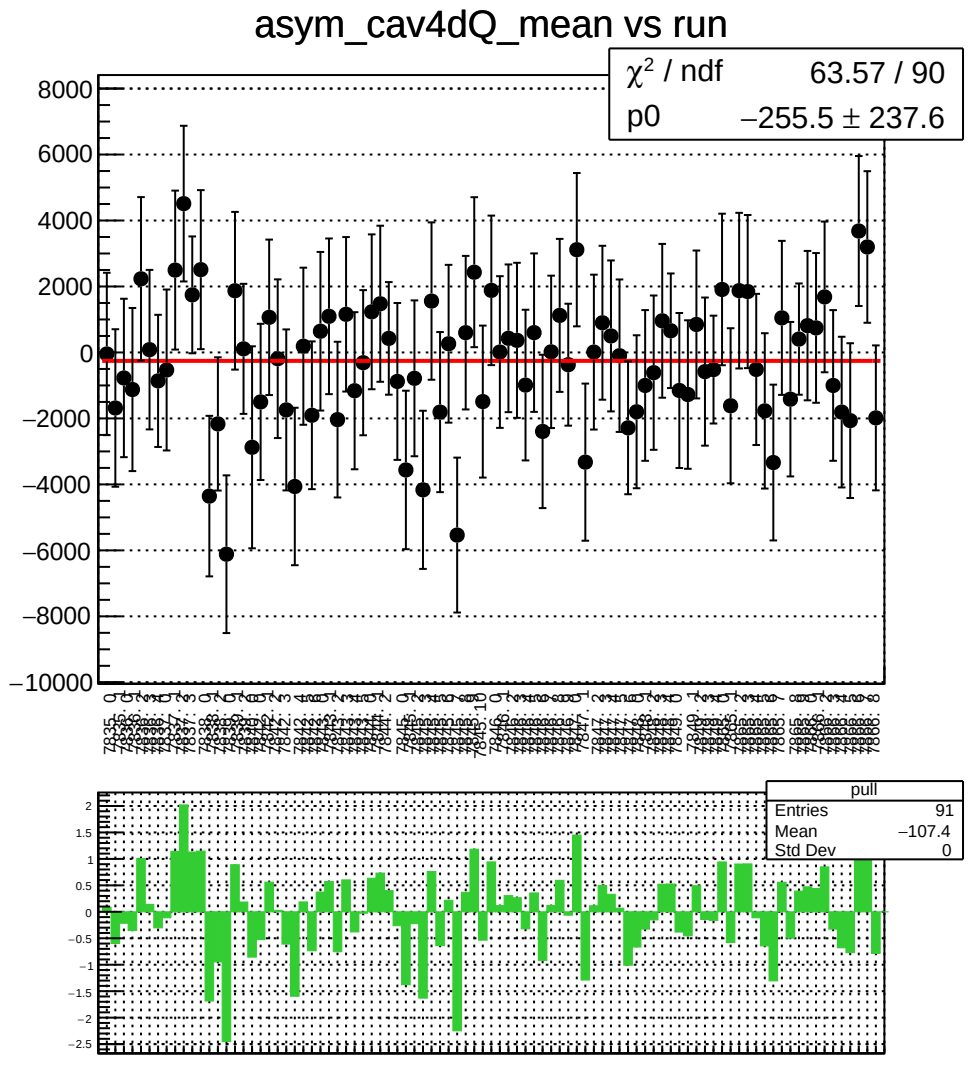

pull1D
Entries 91
Mean 0.004491
Std Dev 0.9217

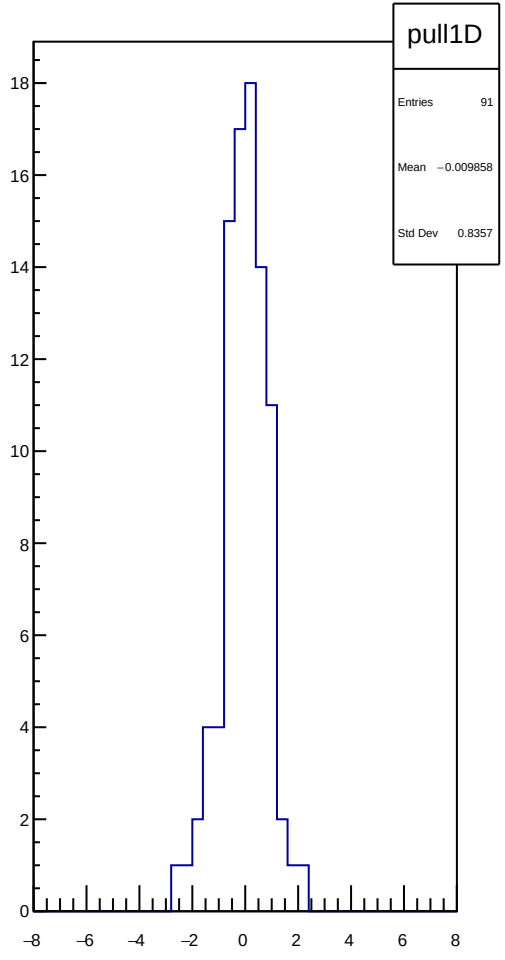

asym_cav4bQ_rms vs run
χ² / ndf 3.95e+04 / 90
p0 942 ± 0.7192
1600
1500
1400
1300
1200
1100
1000
900
800
700

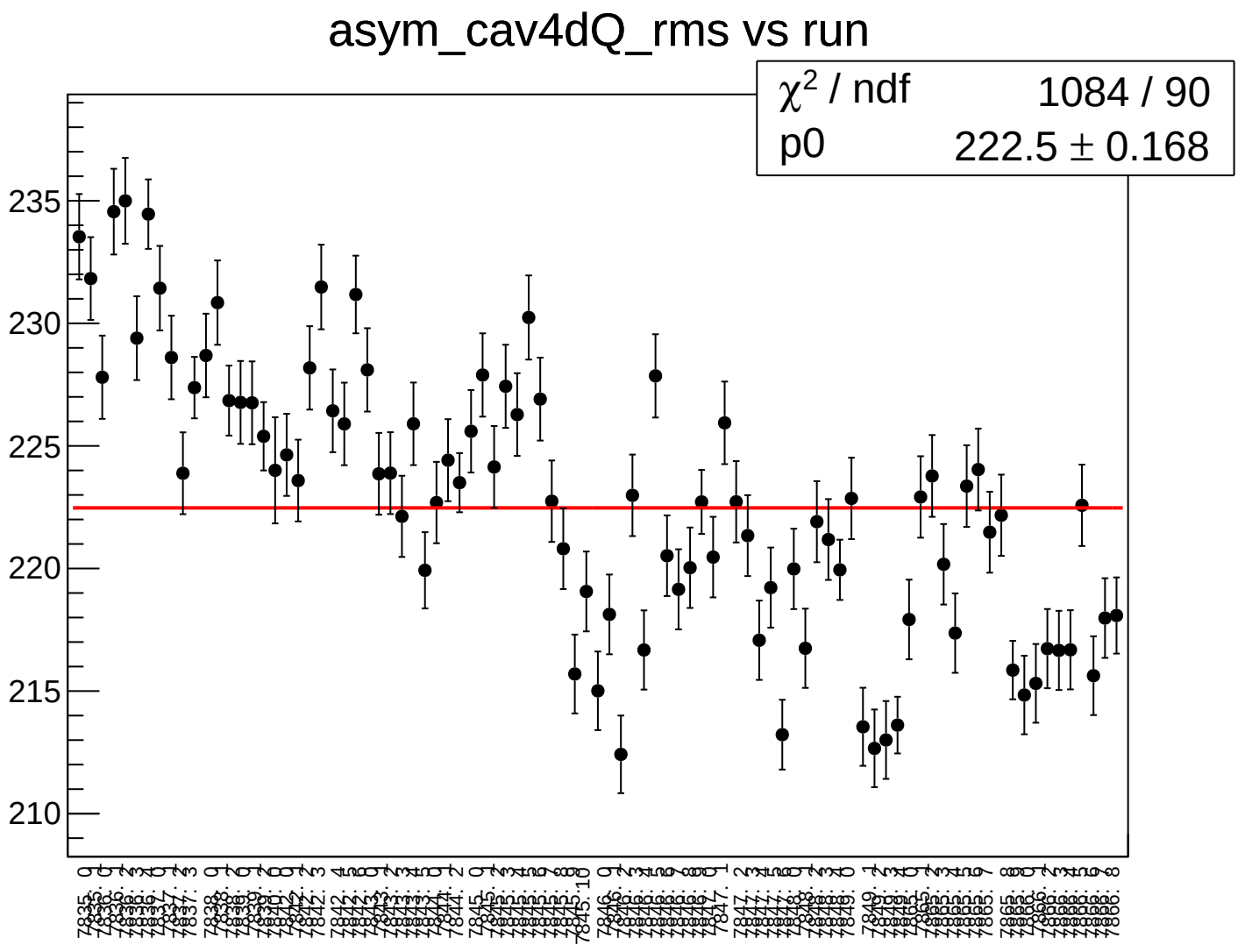

asym_cav4cQ_mean vs run
χ² / ndf 31.69 / 90
p0 −179.2 ± 161.8
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 494.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

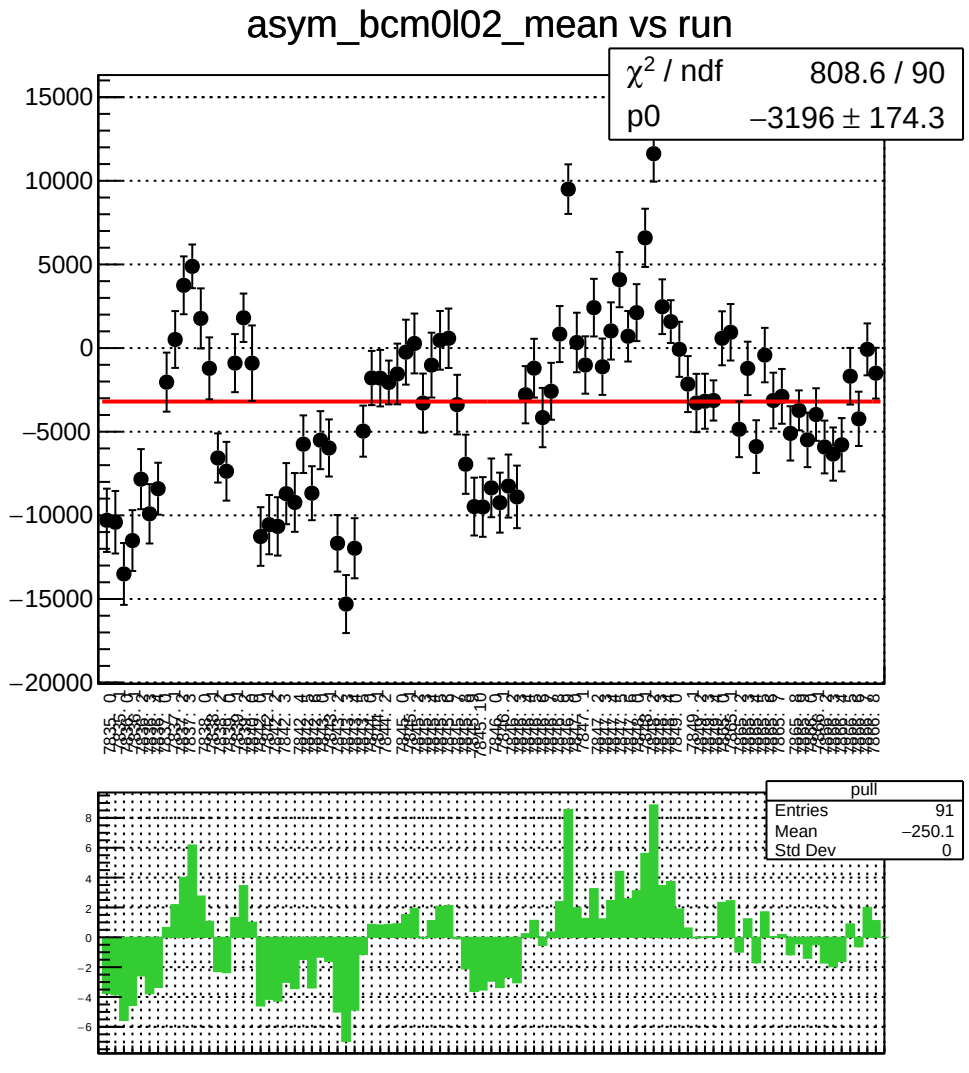

pull1D
Entries 91
Mean −0.001892
Std Dev 0.5901
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

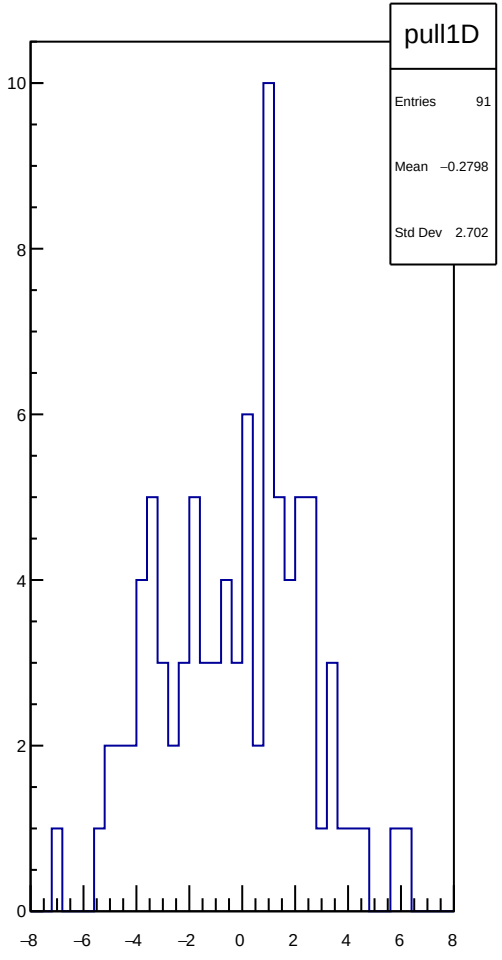

asym_cav4cQ_rms vs run
χ² / ndf 4215 / 90
p0 151.4 ± 0.1144
170
165
160
155
150
145
140
135

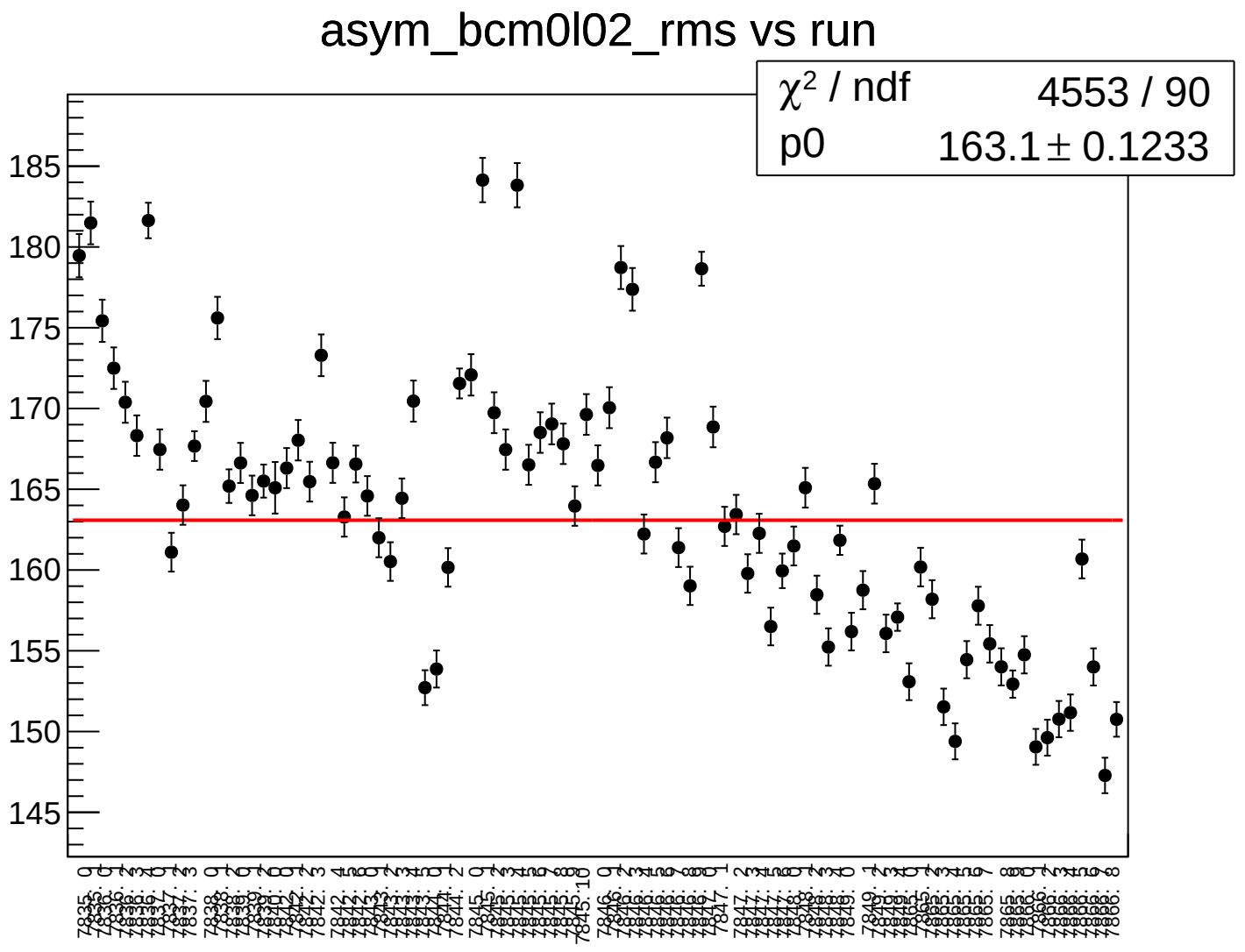

asym_cav4dQ_mean vs run
χ² / ndf 63.57 / 90
p0 −255.5 ± 237.6
pull
Entries 91
Mean −107.4
Std Dev 0

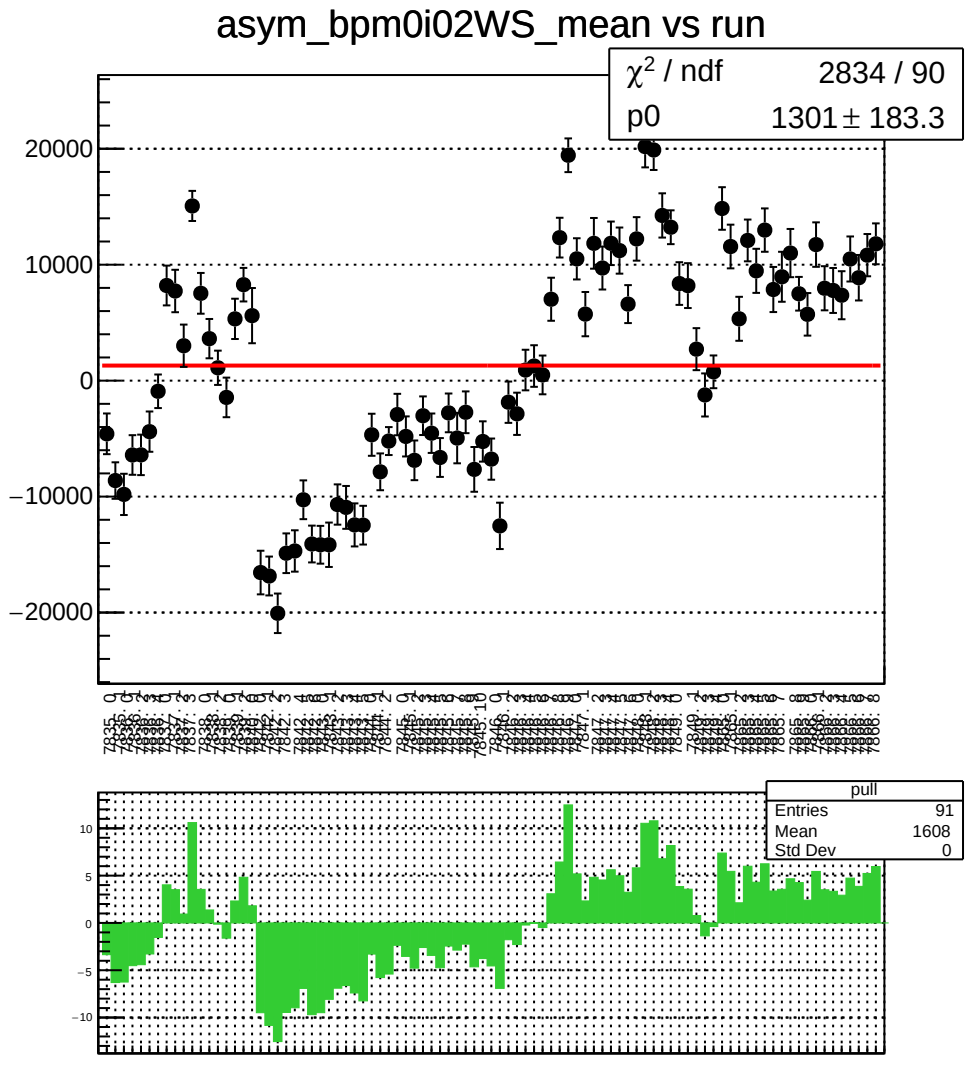

pull1D
Entries 91
Mean −0.009858
Std Dev 0.8357

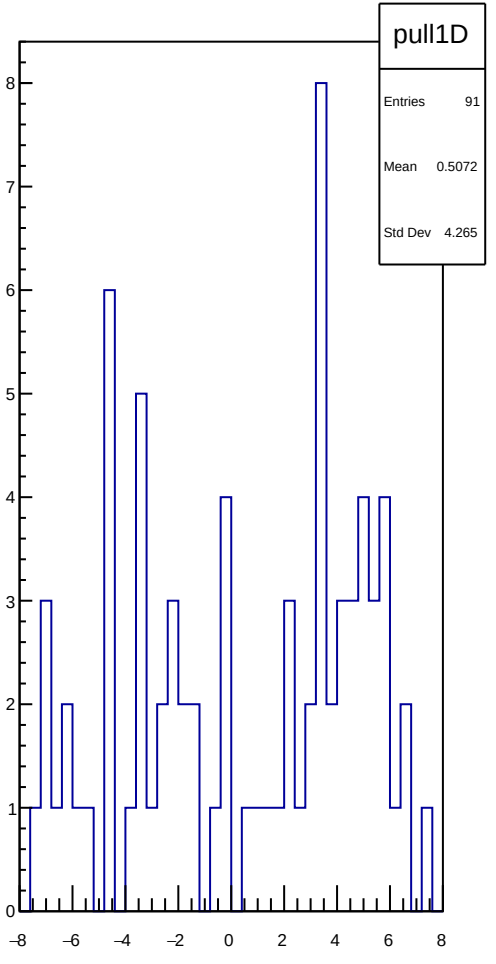

asym_cav4dQ_rms vs run
χ^2 / ndf 1084 / 90
p0 222.5 ± 0.168
235
230
225
220
215
210

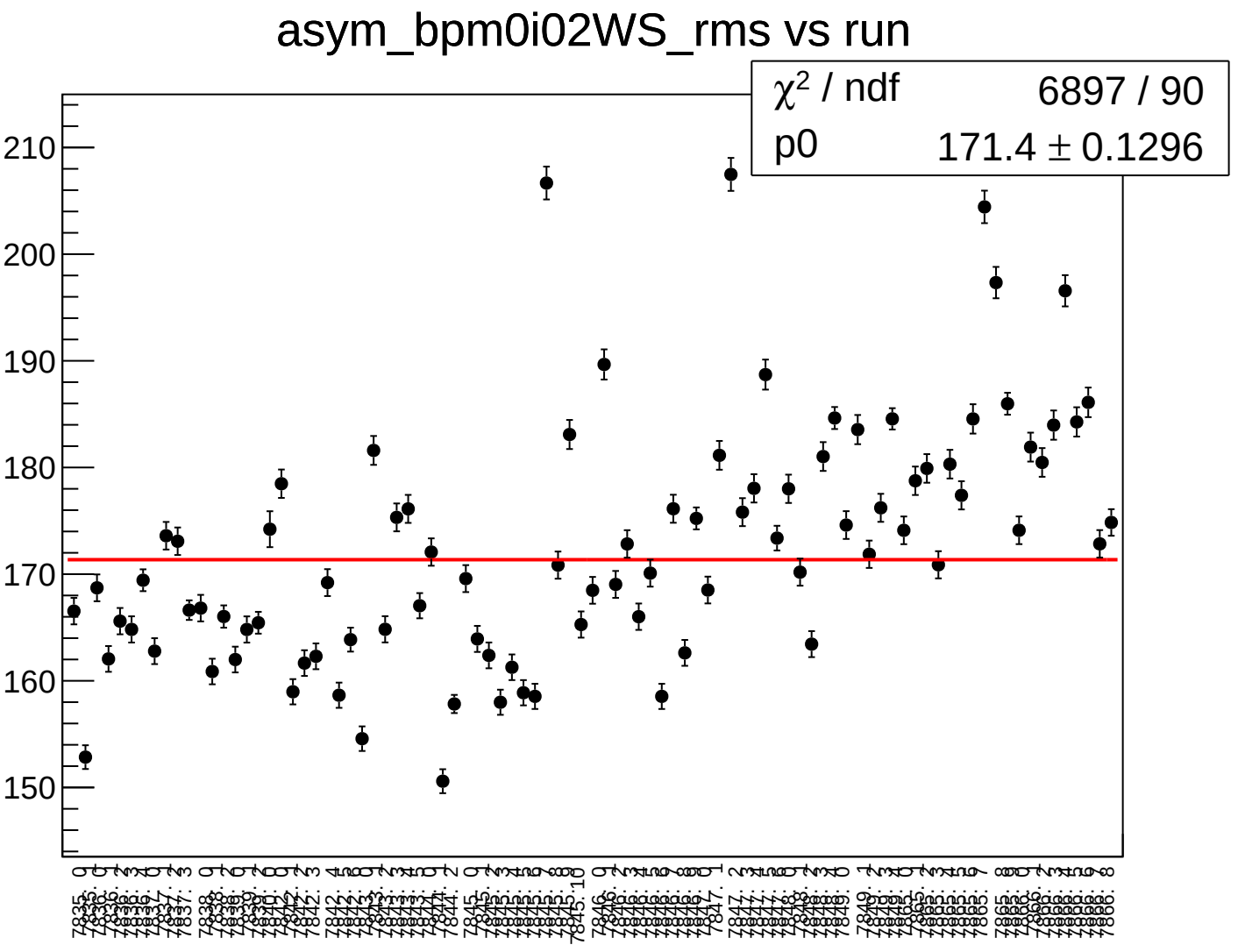

asym_bcm0l02_mean vs run
χ² / ndf 808.6 / 90
p0 −3196 ± 174.3
pull
Entries 91
Mean −250.1
Std Dev 0

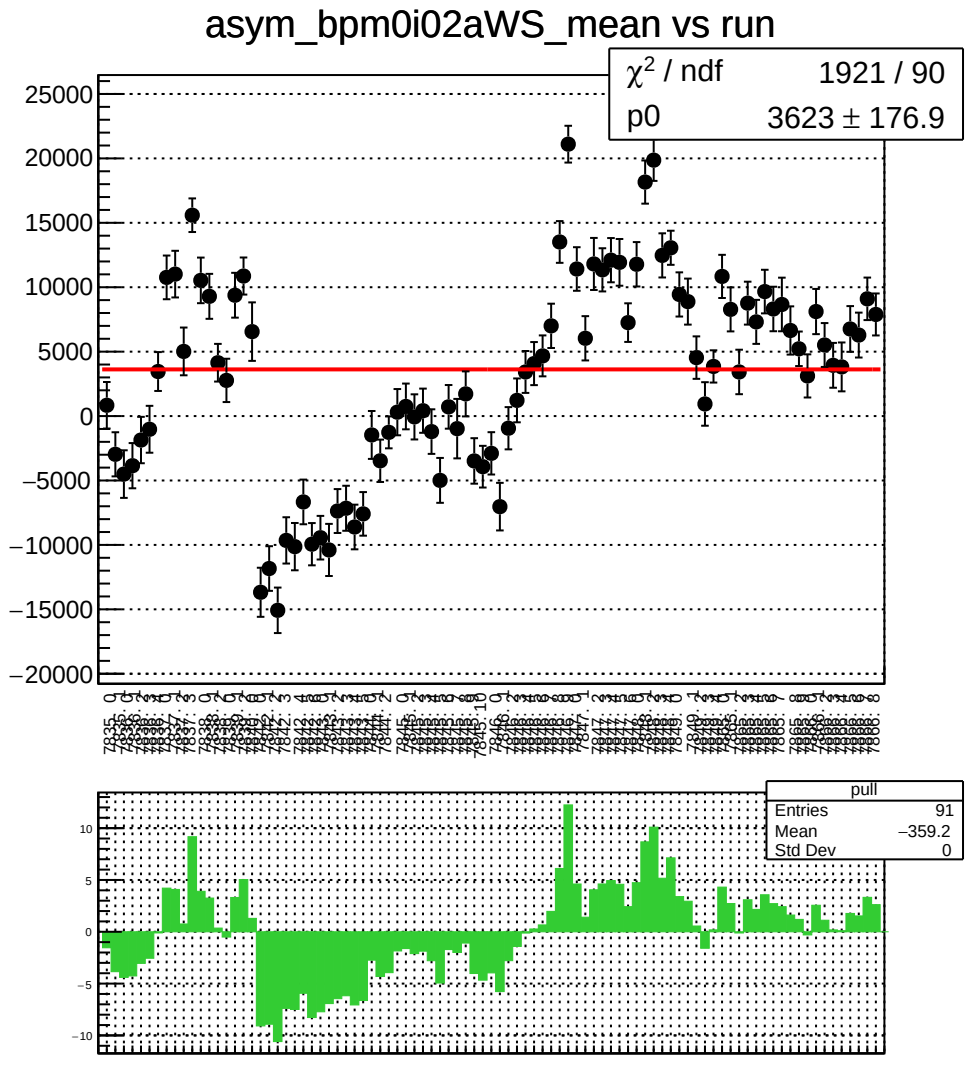

pull1D
Entries 91
Mean −0.2798
Std Dev 2.702

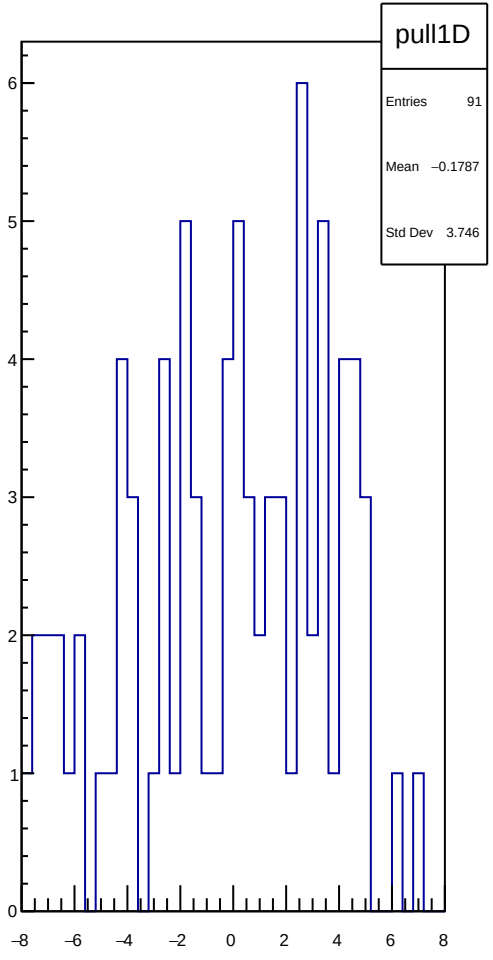

asym_bcm0l02_rms vs run
χ² / ndf 4553 / 90
p0 163.1 ± 0.1233
185
180
175
170
165
160
155
150
145

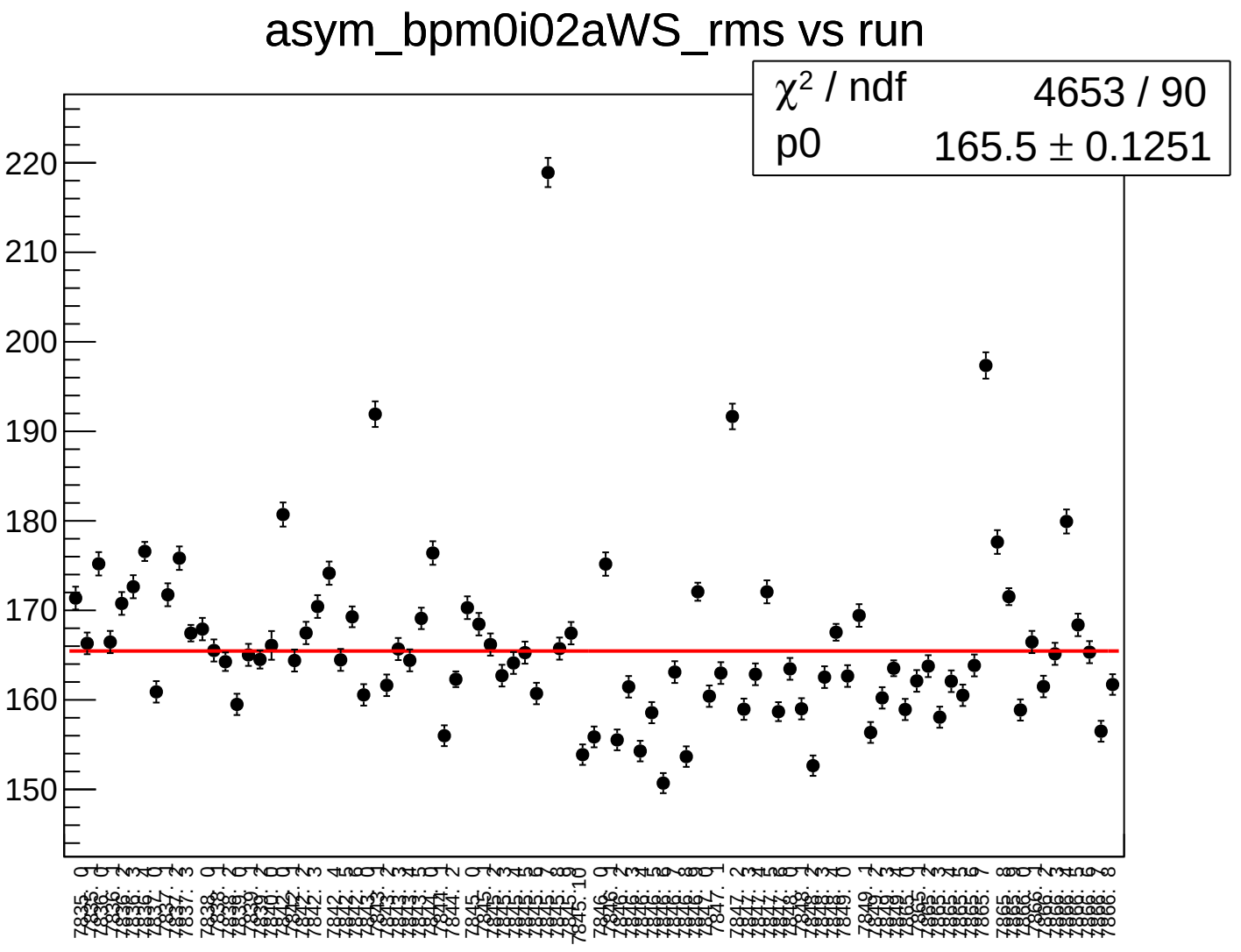

asym_bpm0i02WS_mean vs run
χ² / ndf 2834 / 90
p0 1301 ± 183.3
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 1608
Std Dev 0
10
5
0
−5
−10

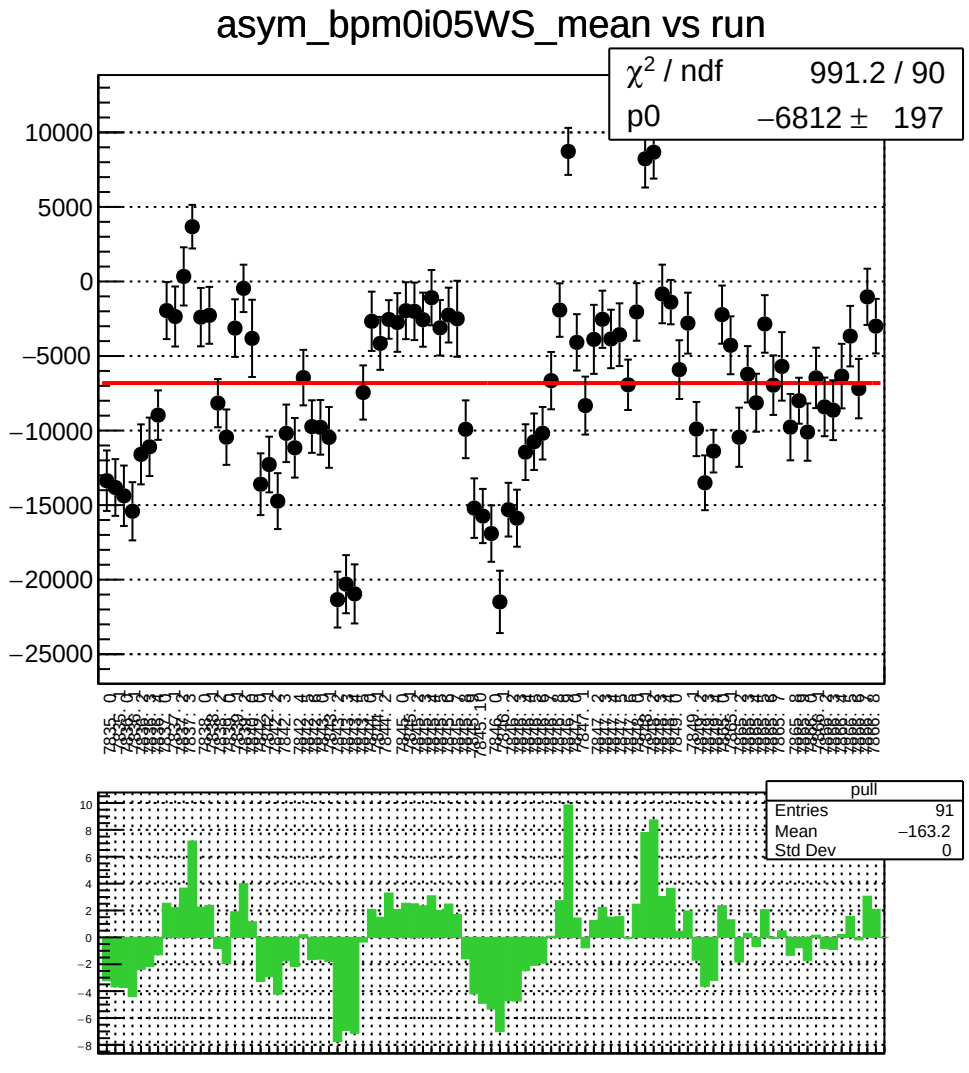

pull1D
Entries 91
Mean 0.5072
Std Dev 4.265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

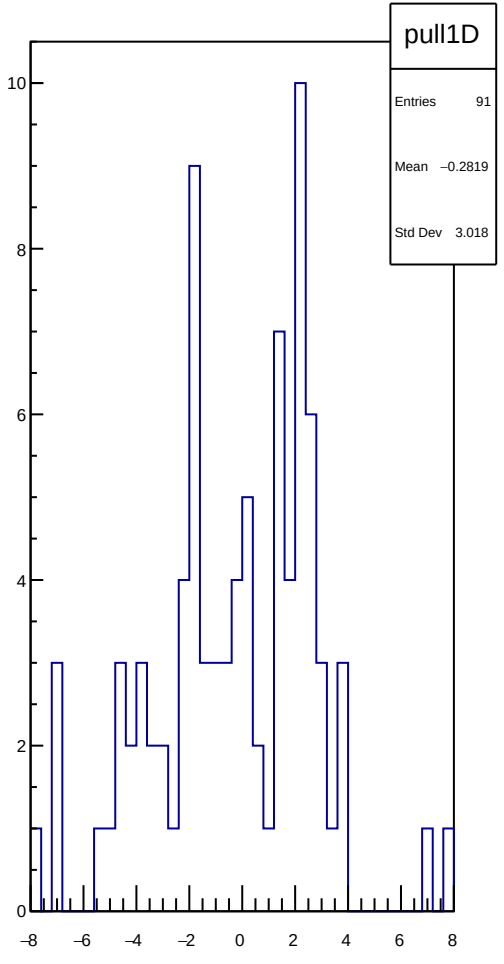

asym_bpm0i02WS_rms vs run
χ² / ndf 6897 / 90
p0 171.4 ± 0.1296
210
200
190
180
170
160
150

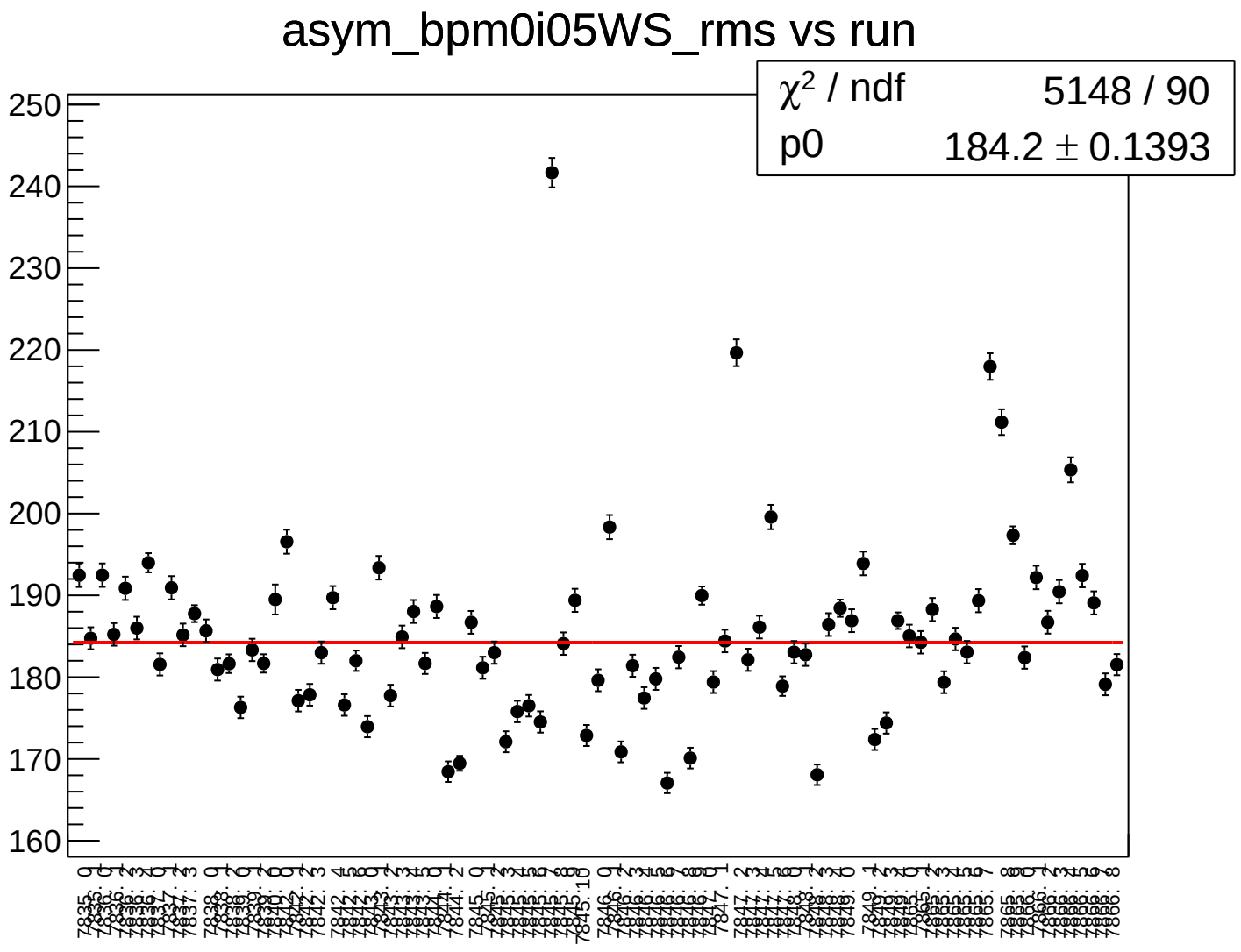

asym_bpm0i02aWS_mean vs run
χ² / ndf 1921 / 90
p0 3623 ± 176.9
pull
Entries 91
Mean −359.2
Std Dev 0

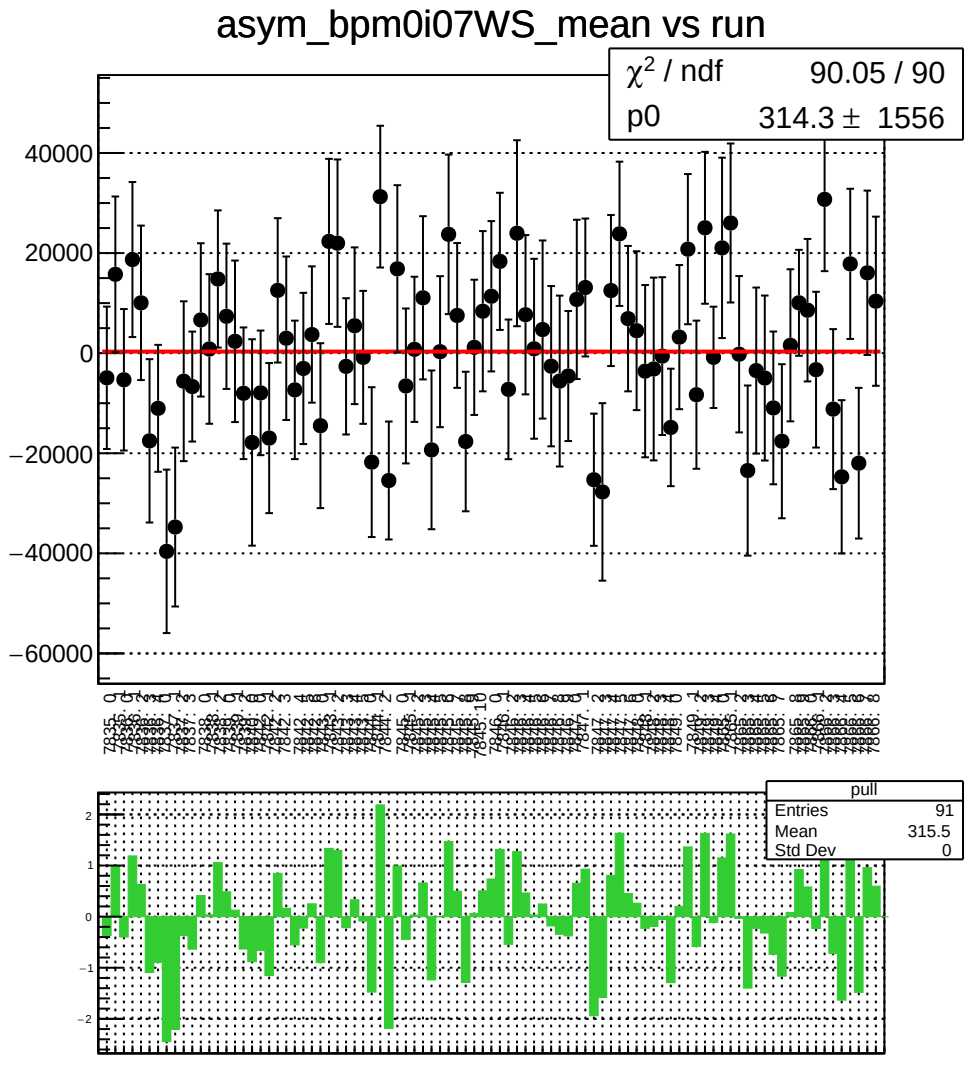

pull1D
Entries 91
Mean −0.1787
Std Dev 3.746

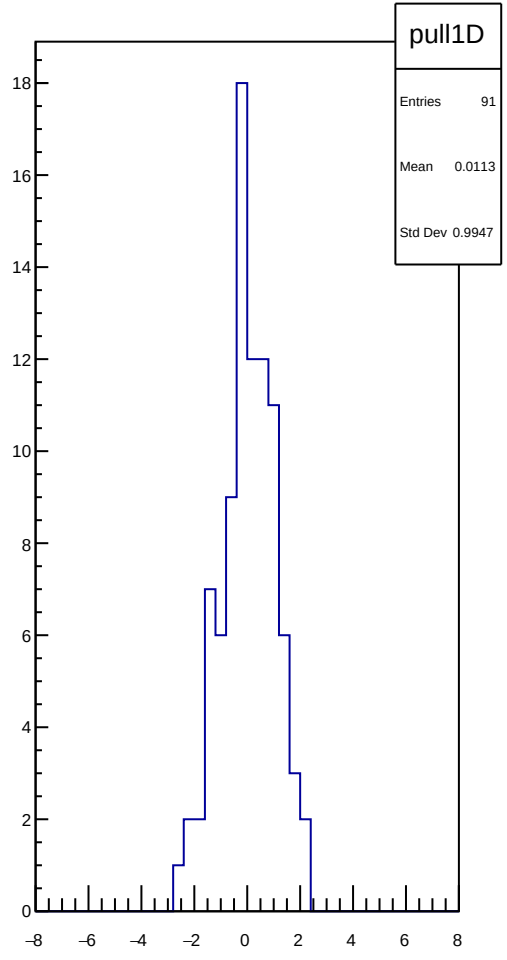

asym_bpm0i02aWS_rms vs run
χ² / ndf 4653 / 90
p0 165.5 ± 0.1251
220
210
200
190
180
170
160
150

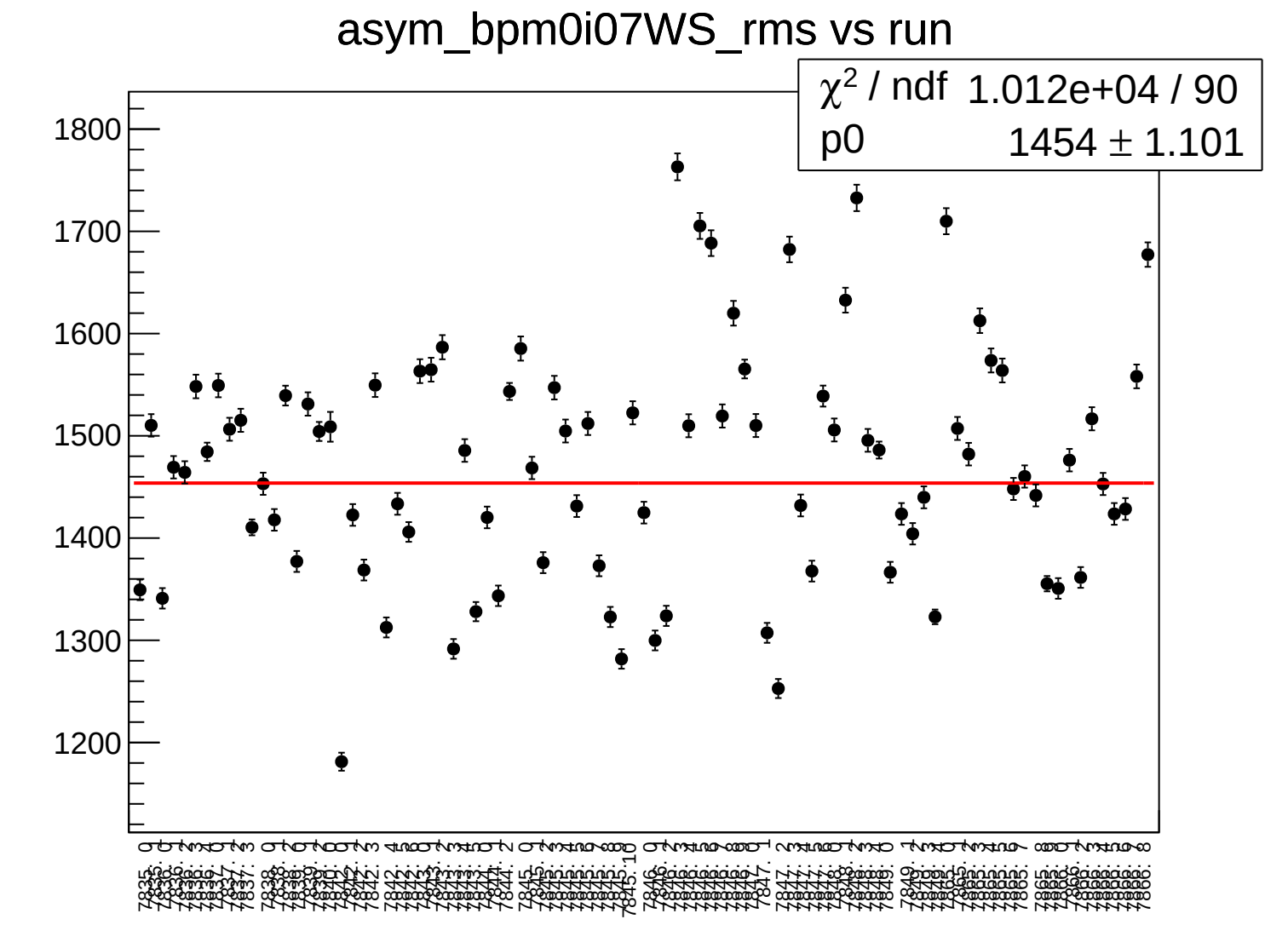

asym_bpm0i05WS_mean vs run
χ² / ndf 991.2 / 90
p0 −6812 ± 197
pull
Entries 91
Mean −163.2
Std Dev 0

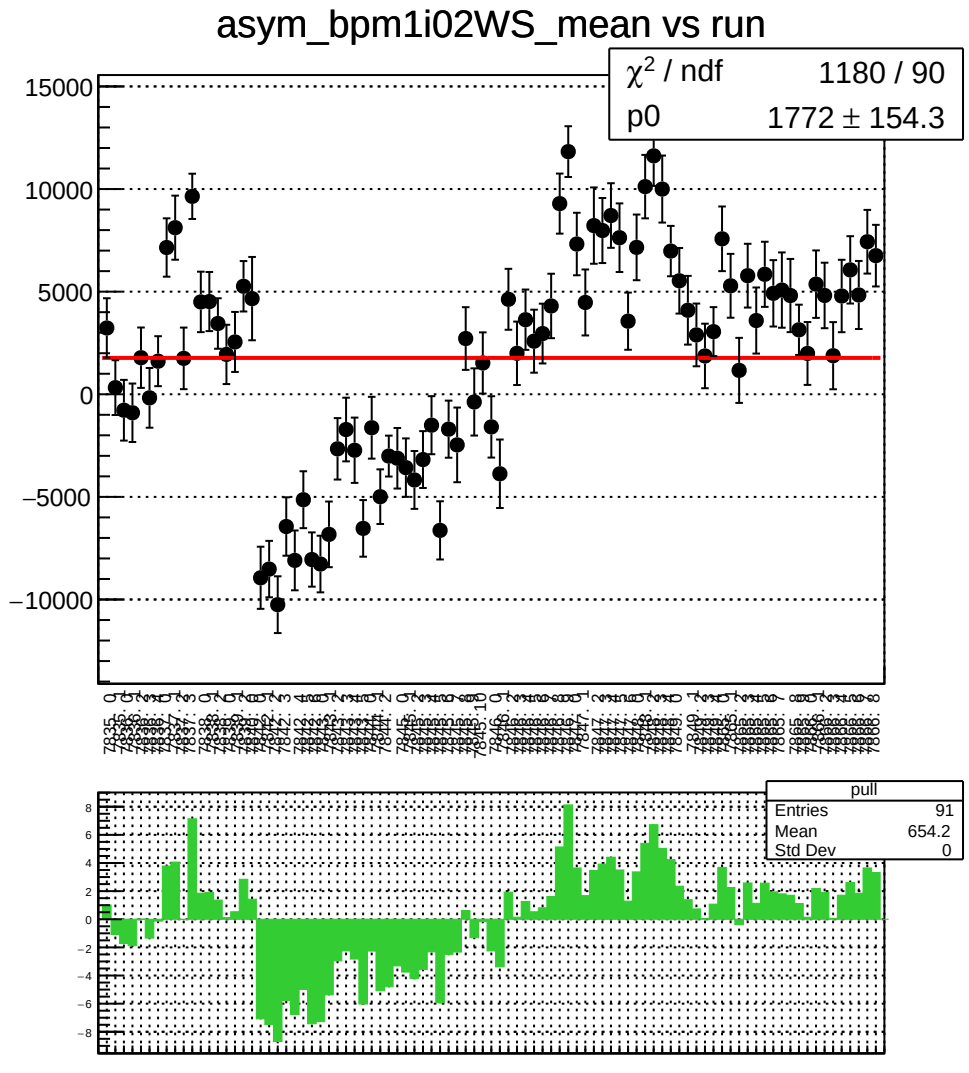

pull1D
Entries 91
Mean −0.2819
Std Dev 3.018

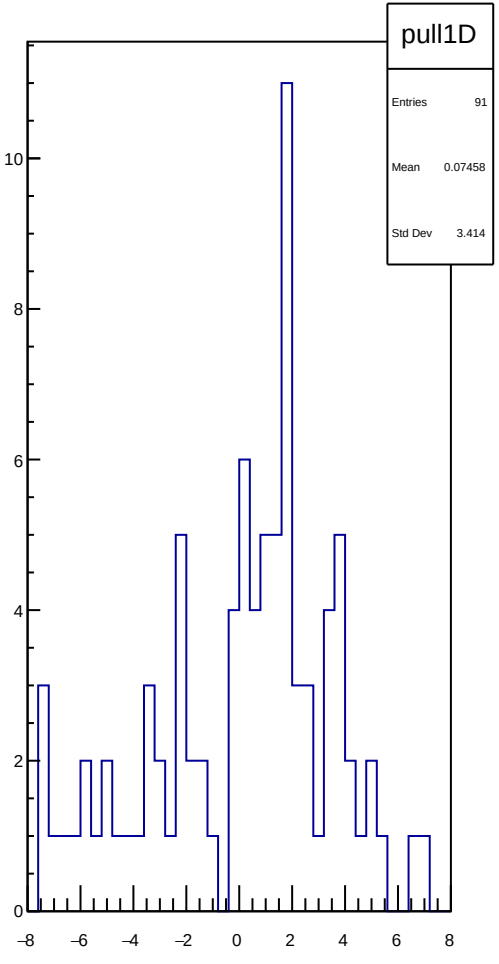

asym_bpm0i05WS_rms vs run
χ² / ndf 5148 / 90
p0 184.2 ± 0.1393
250
240
230
220
210
200
190
180
170
160

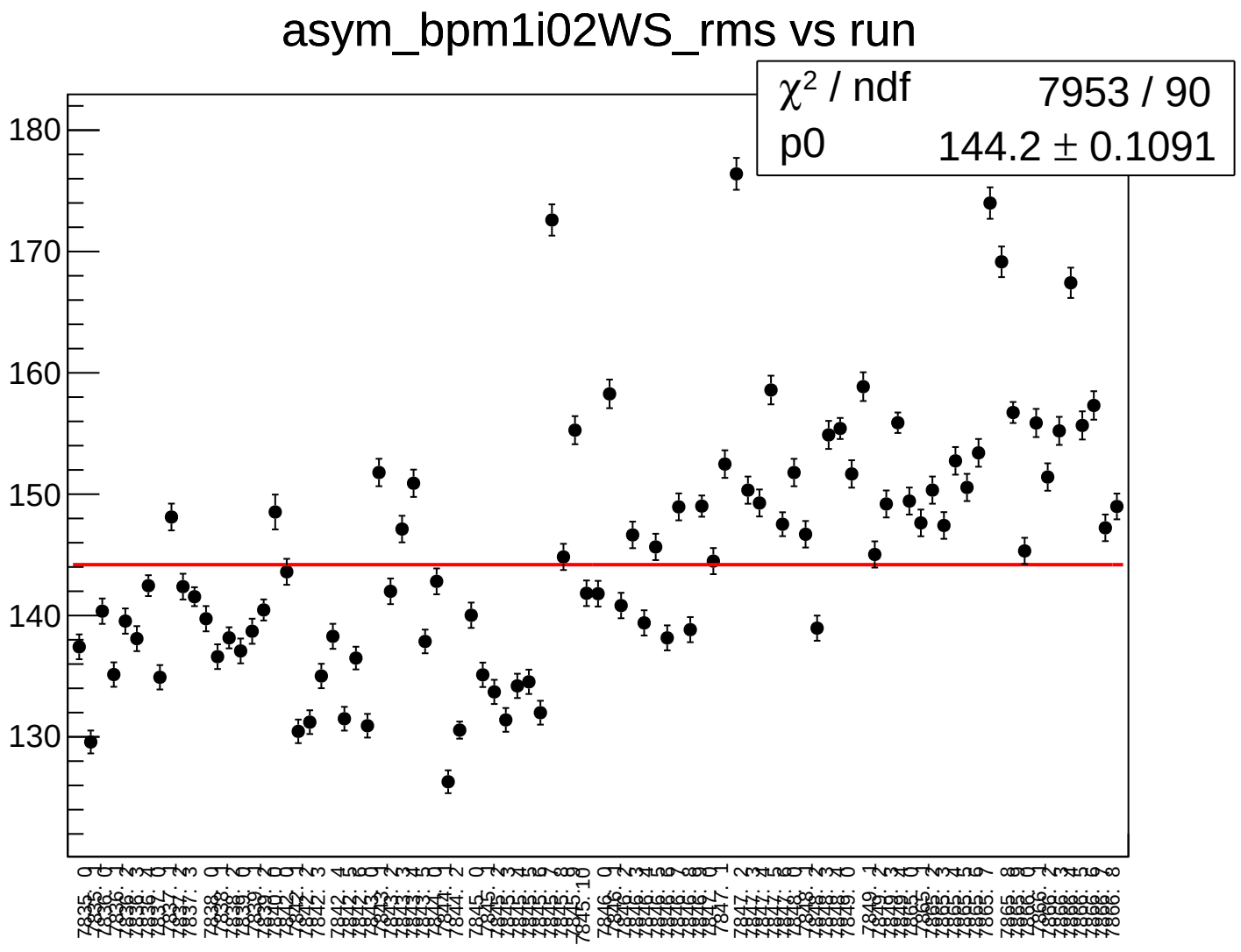

asym_bpm0i07WS_mean vs run
χ² / ndf 90.05 / 90
p0 314.3 ± 1556
pull
Entries 91
Mean 315.5
Std Dev 0

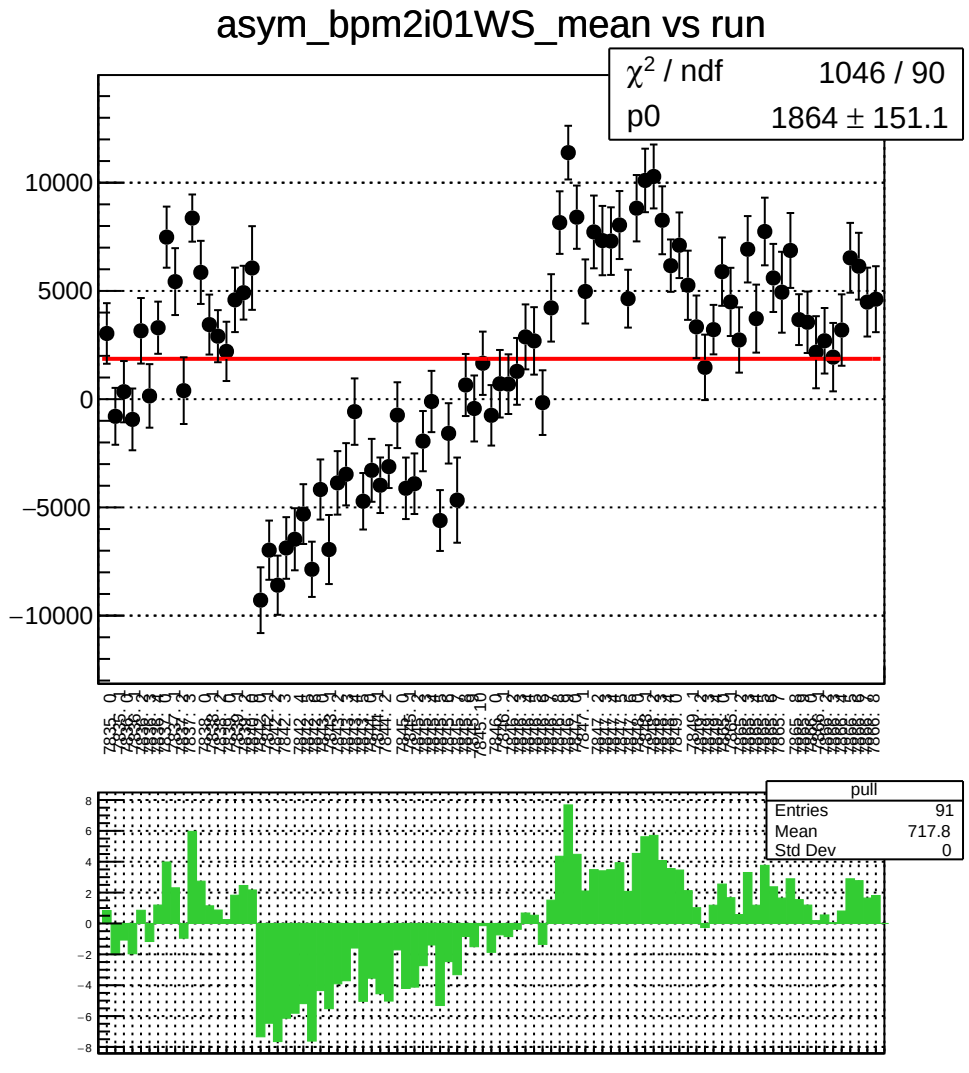

pull1D
Entries 91
Mean 0.0113
Std Dev 0.9947

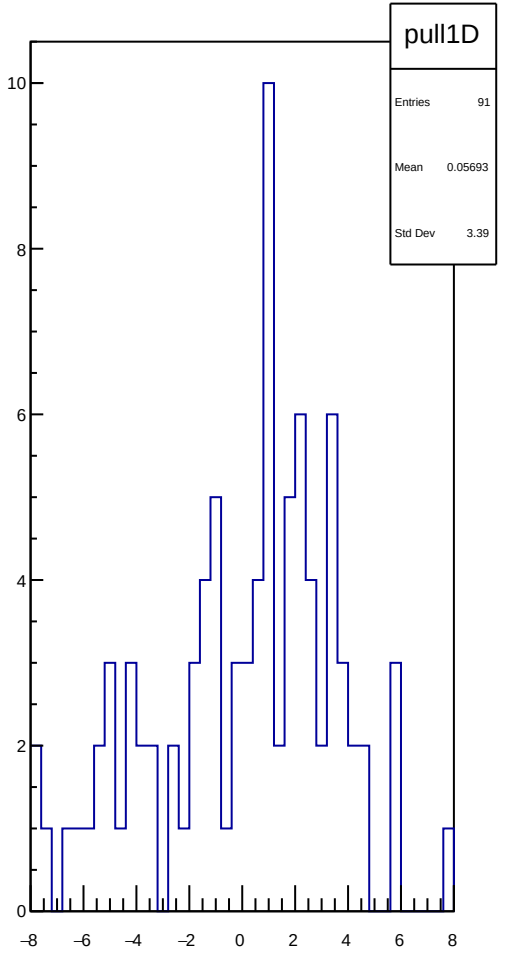

asym_bpm0i07WS_rms vs run
χ² / ndf 1.012e+04 / 90
p0 1454 ± 1.101
1800
1700
1600
1500
1400
1300
1200

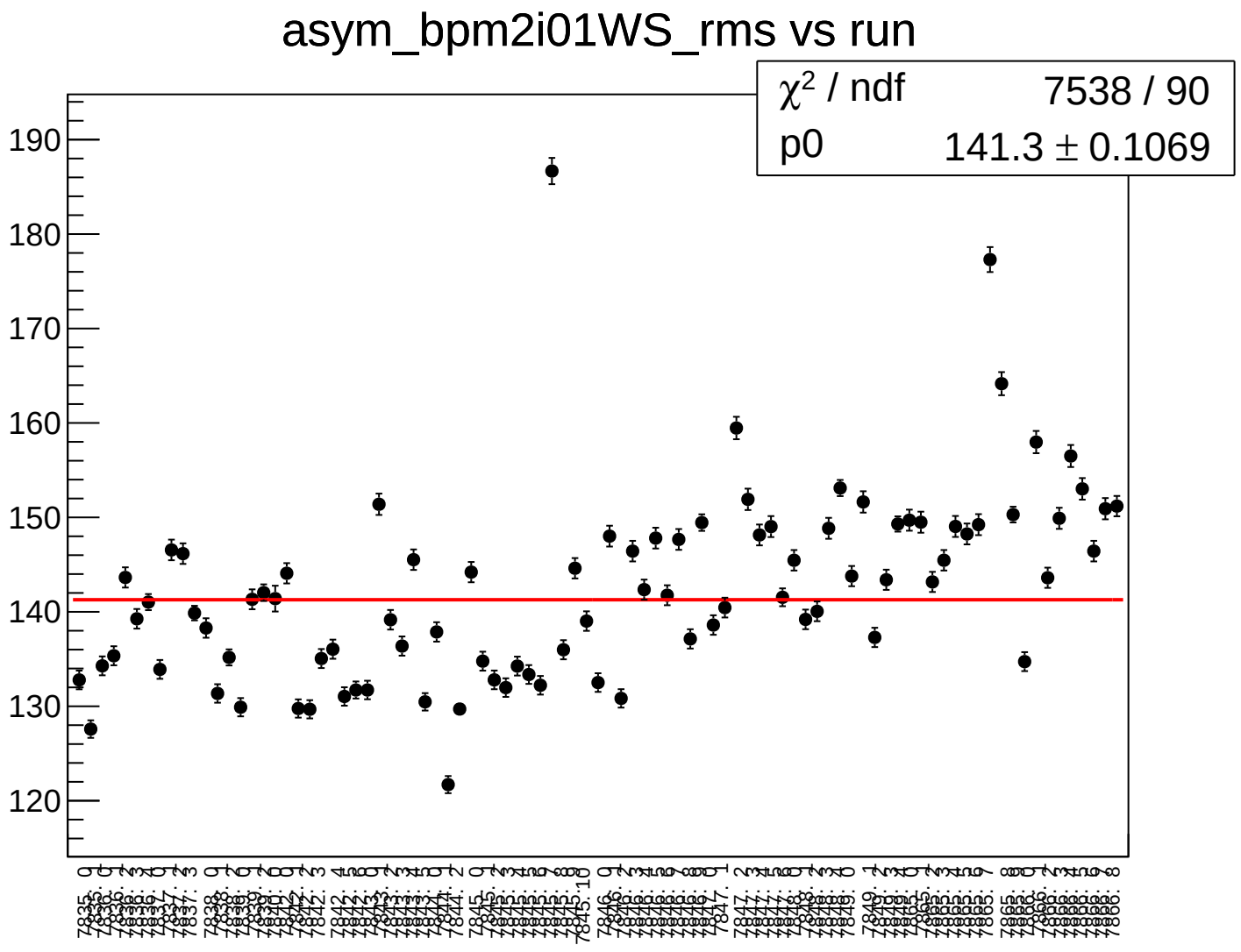

asym_bpm1i02WS_mean vs run
χ² / ndf 1180 / 90
p0 1772 ± 154.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 654.2
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

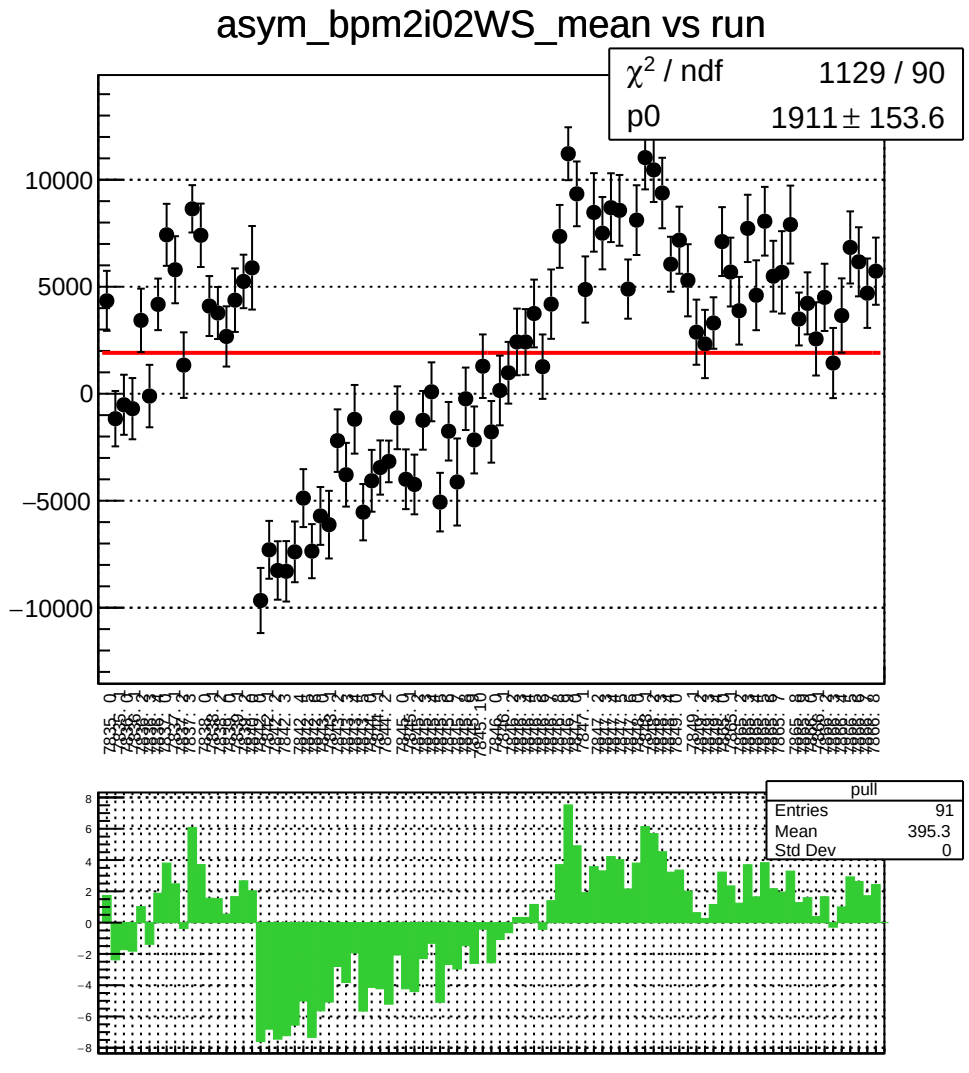

pull1D
Entries 91
Mean 0.07458
Std Dev 3.414
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

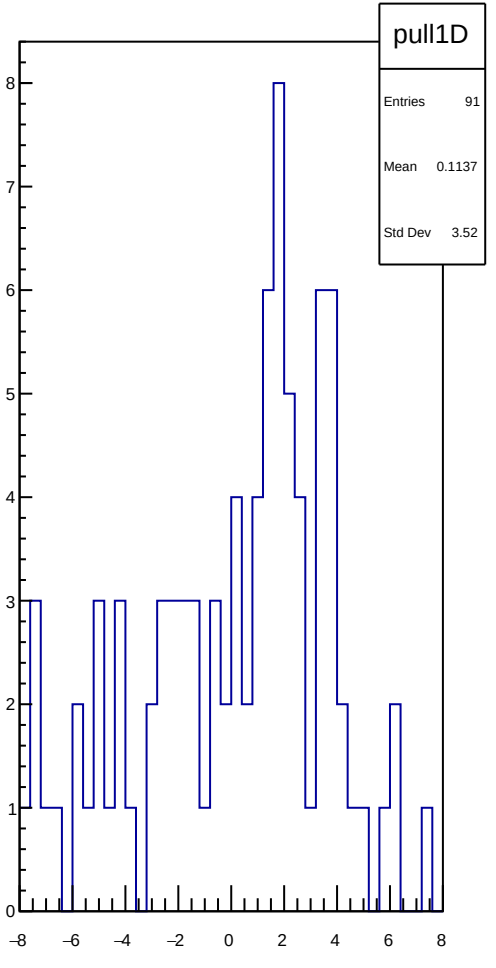

asym_bpm1i02WS_rms vs run
χ² / ndf 7953 / 90
p0 144.2 ± 0.1091
180
170
160
150
140
130

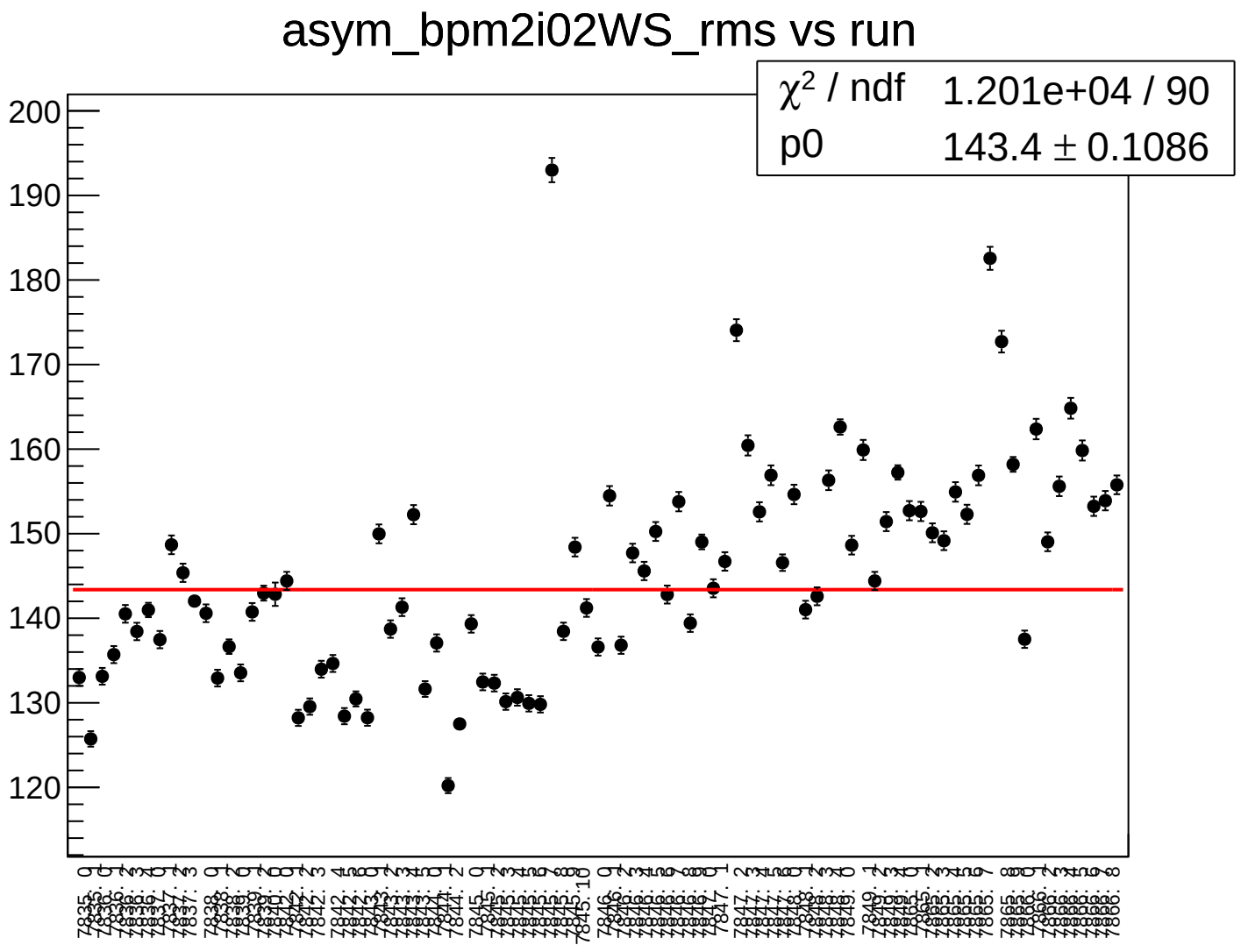

asym_bpm2i01WS_mean vs run
χ² / ndf 1046 / 90
p0 1864 ± 151.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 717.8
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

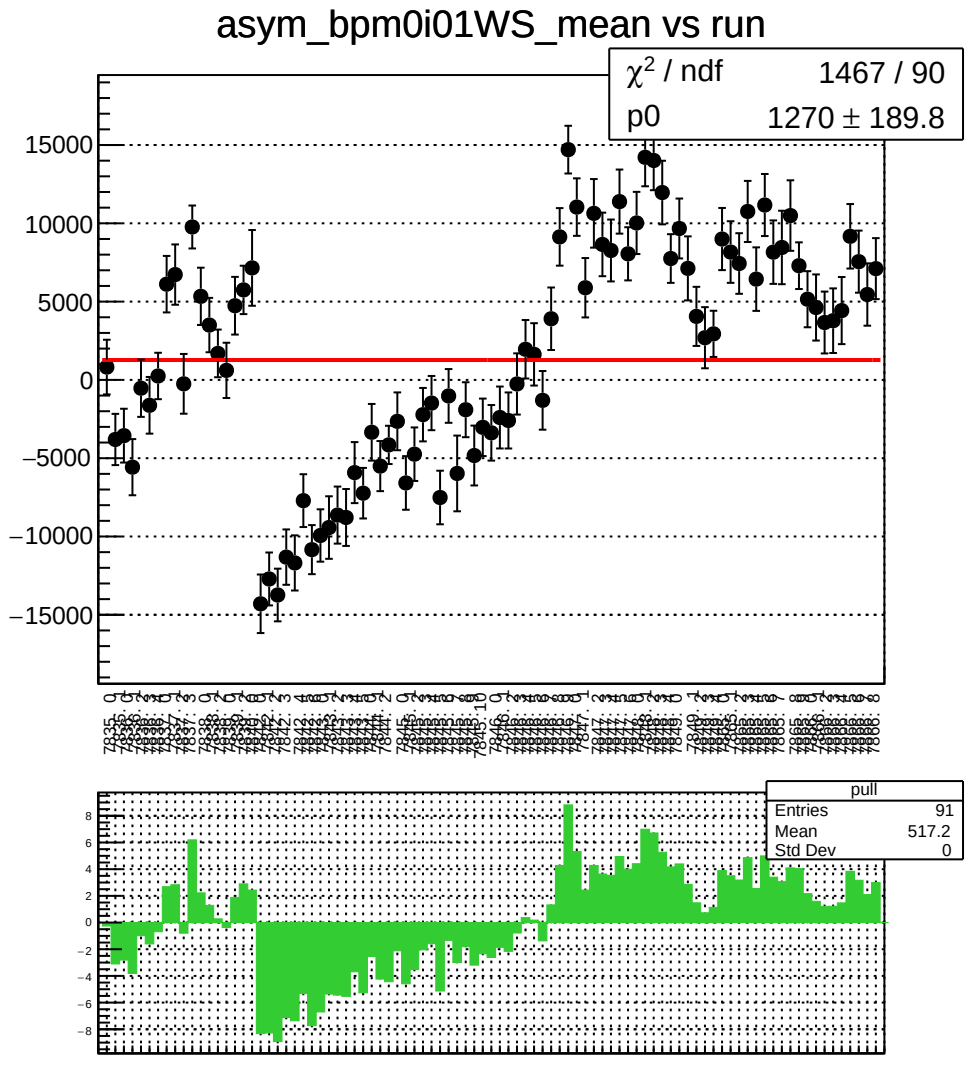

pull1D
Entries 91
Mean 0.05693
Std Dev 3.39
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

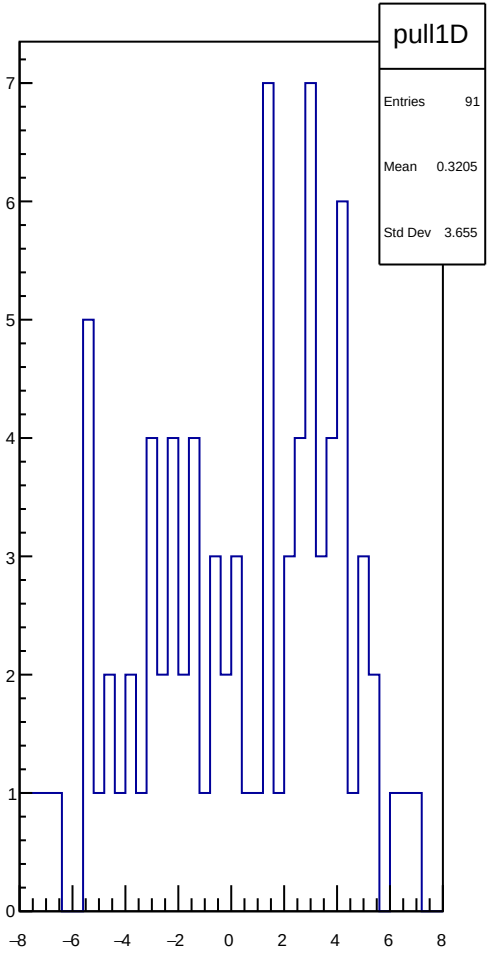

asym_bpm2i01WS_rms vs run
χ² / ndf 7538 / 90
p0 141.3 ± 0.1069
190
180
170
160
150
140
130
120

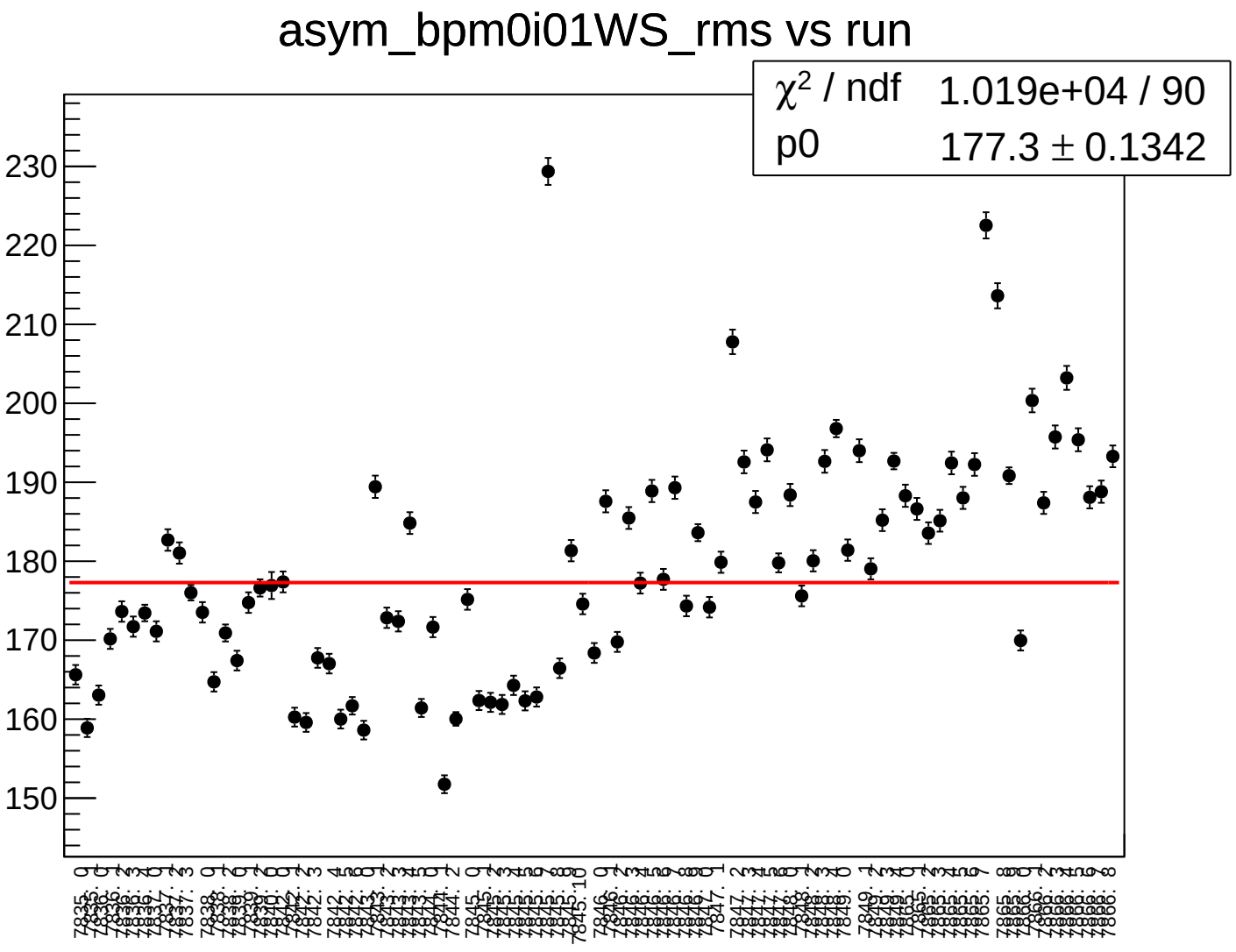

asym_bpm2i02WS_mean vs run
χ² / ndf 1129 / 90
p0 1911 ± 153.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 395.3
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

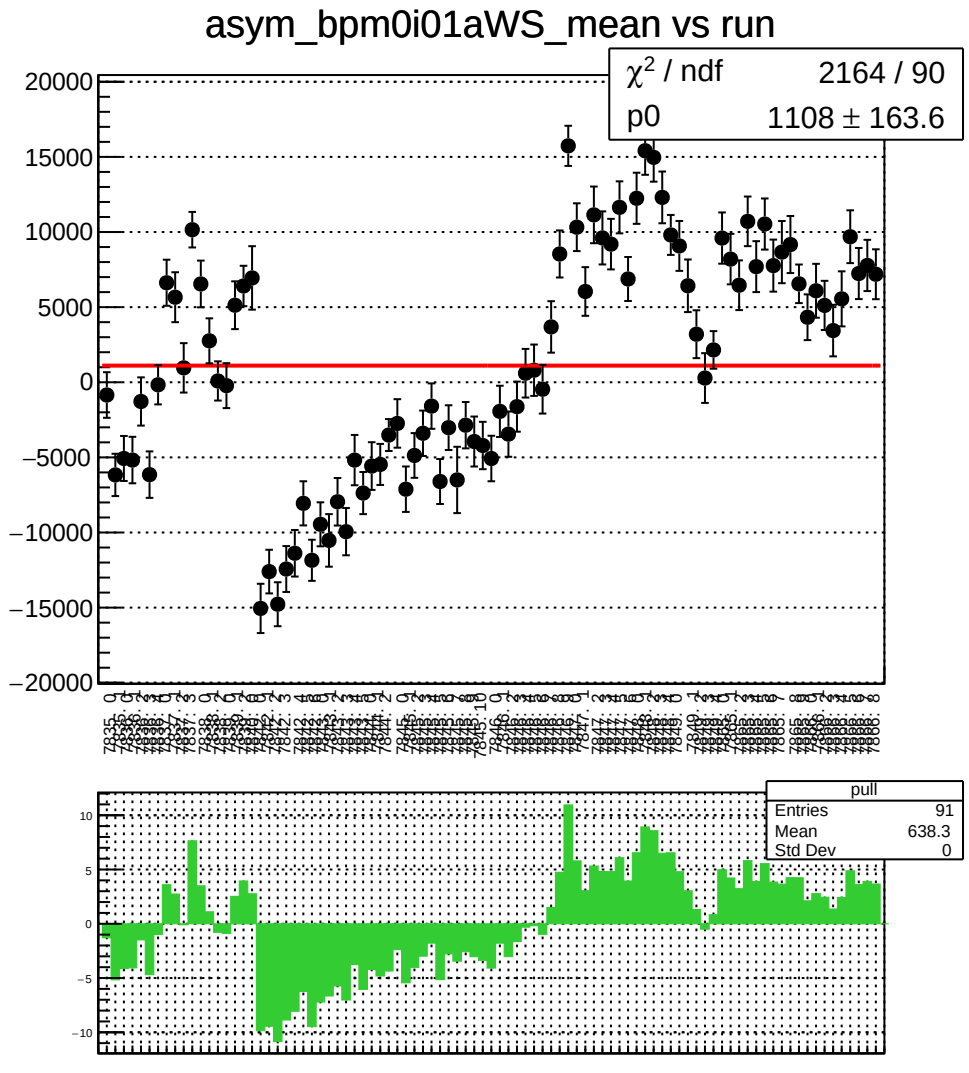

pull1D
Entries 91
Mean 0.1137
Std Dev 3.52
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

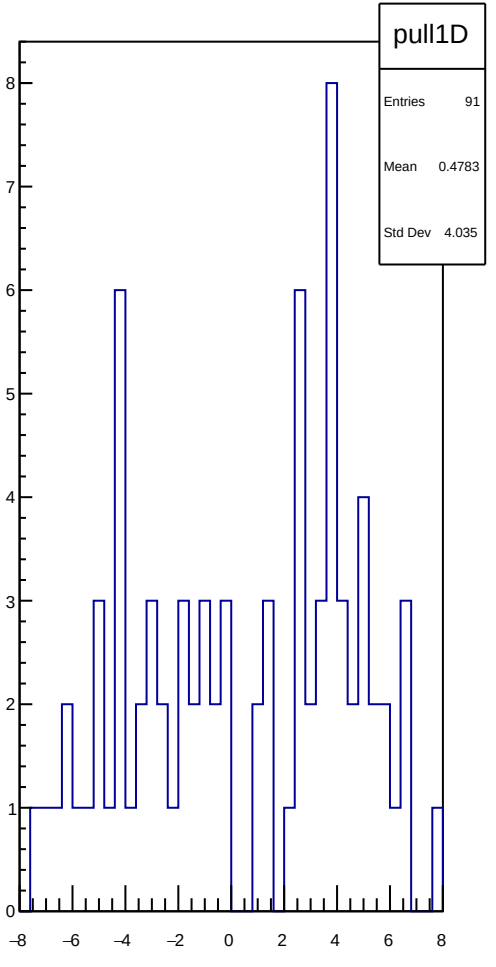

asym_bpm2i02WS_rms vs run
χ² / ndf 1.201e+04 / 90
p0 143.4 ± 0.1086
200
190
180
170
160
150
140
130
120

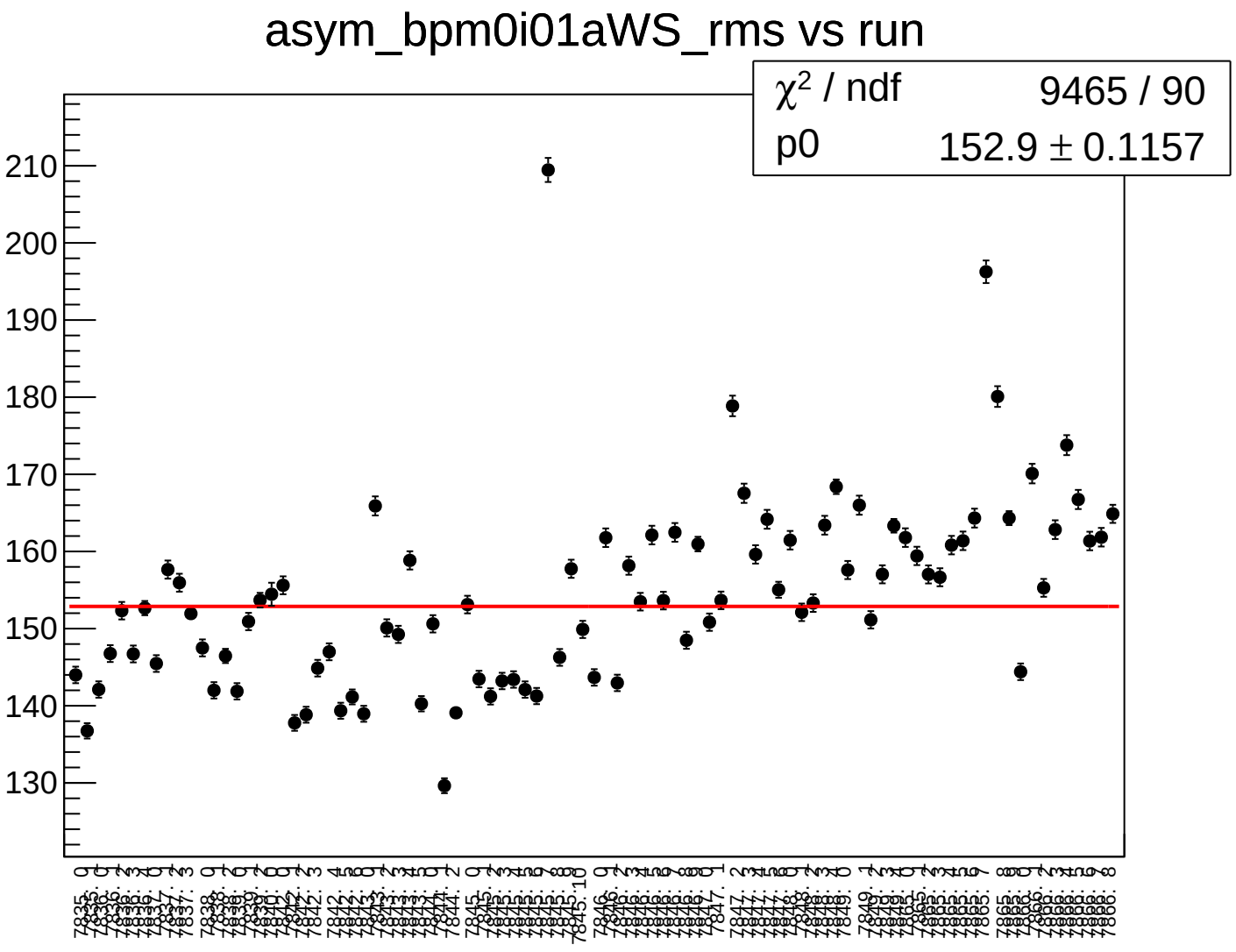

asym_bpm0i01WS_mean vs run
χ² / ndf 1467 / 90
p0 1270 ± 189.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 517.2
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

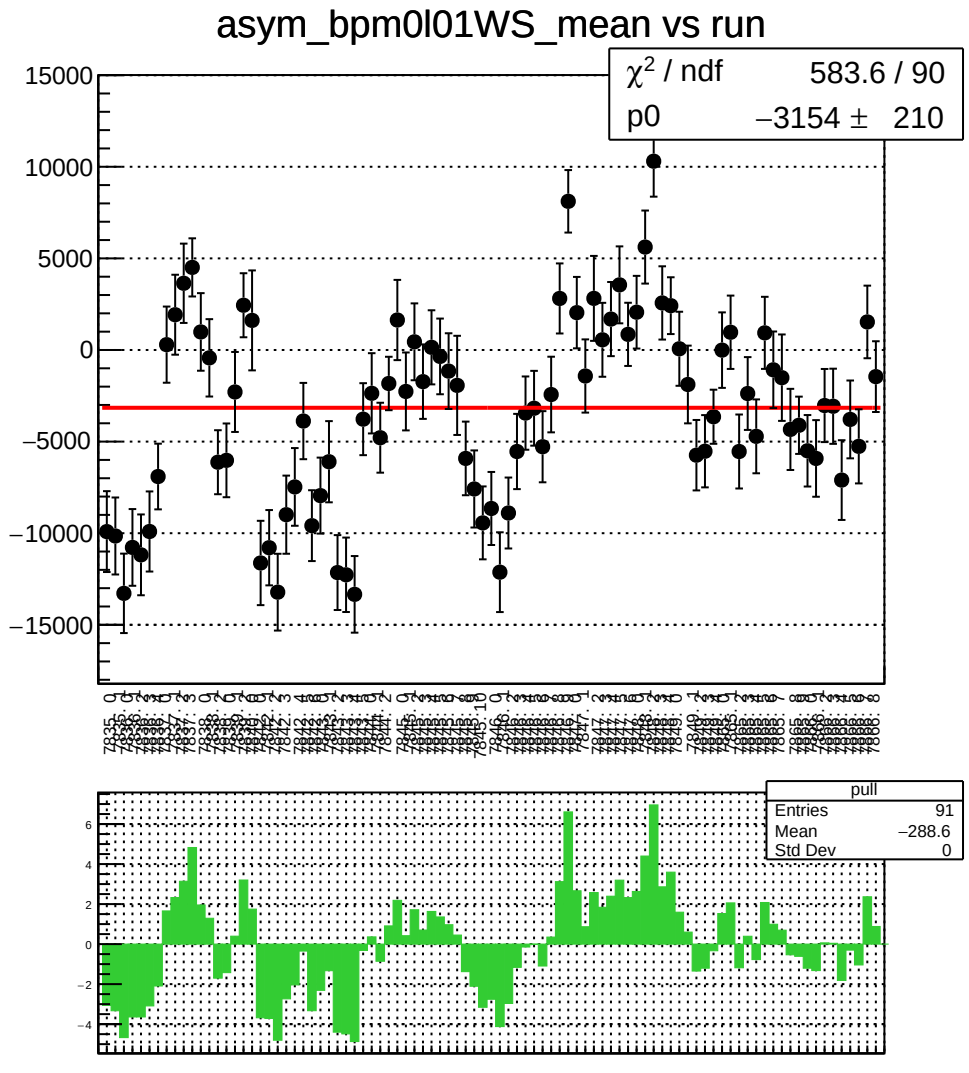

pull1D
Entries 91
Mean 0.3205
Std Dev 3.655
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

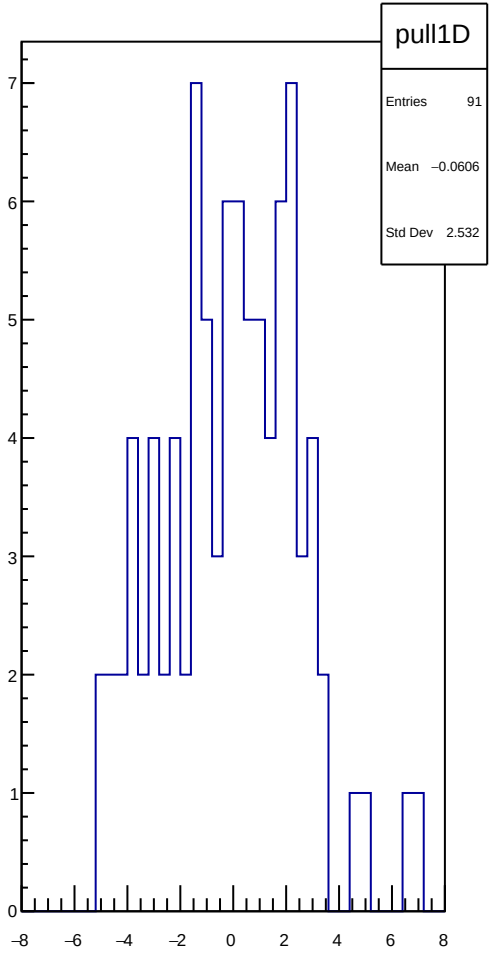

asym_bpm0i01WS_rms vs run
χ² / ndf 1.019e+04 / 90
p0 177.3 ± 0.1342
230
220
210
200
190
180
170
160
150

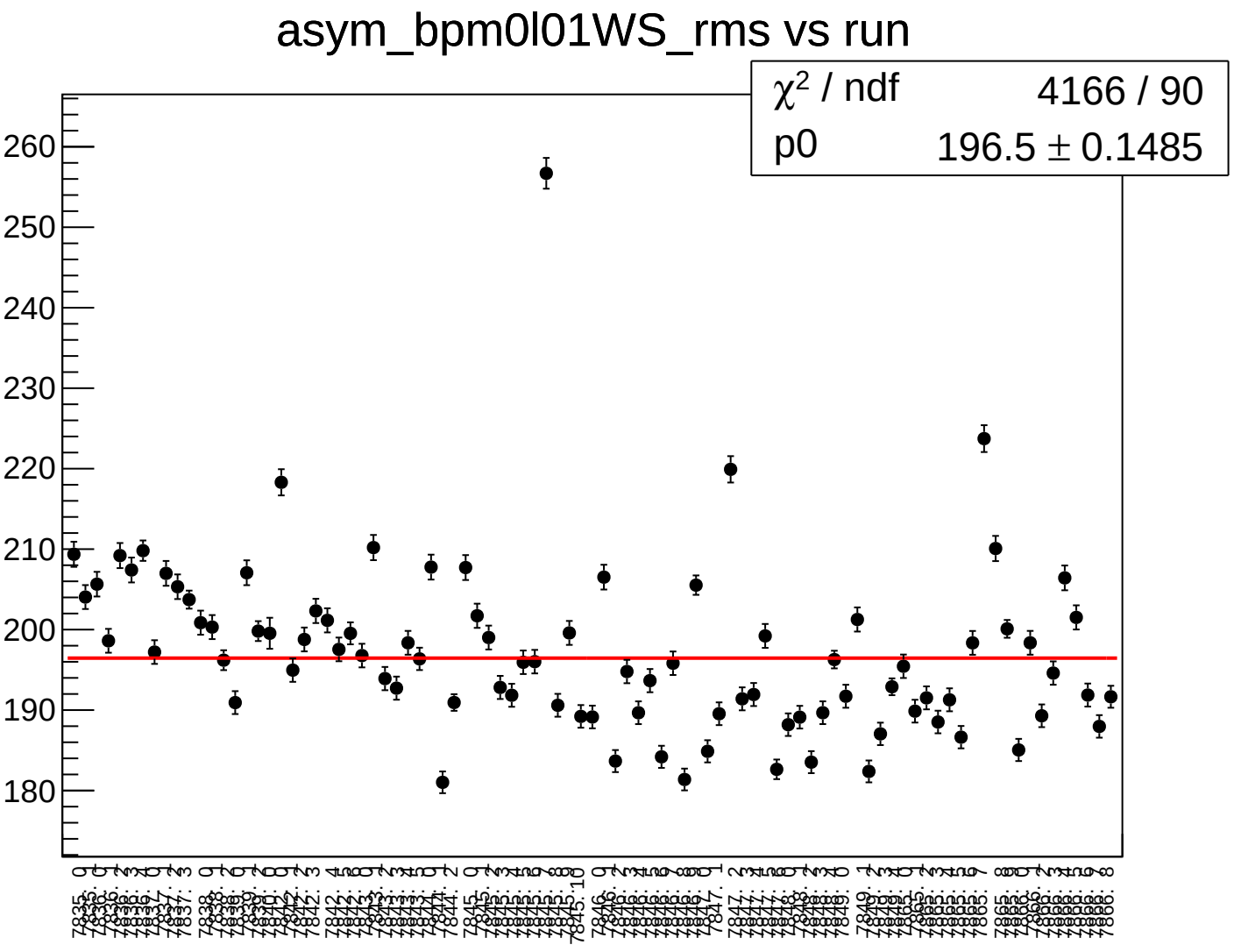

asym_bpm0i01aWS_mean vs run
χ² / ndf 2164 / 90
p0 1108 ± 163.6
pull
Entries 91
Mean 638.3
Std Dev 0

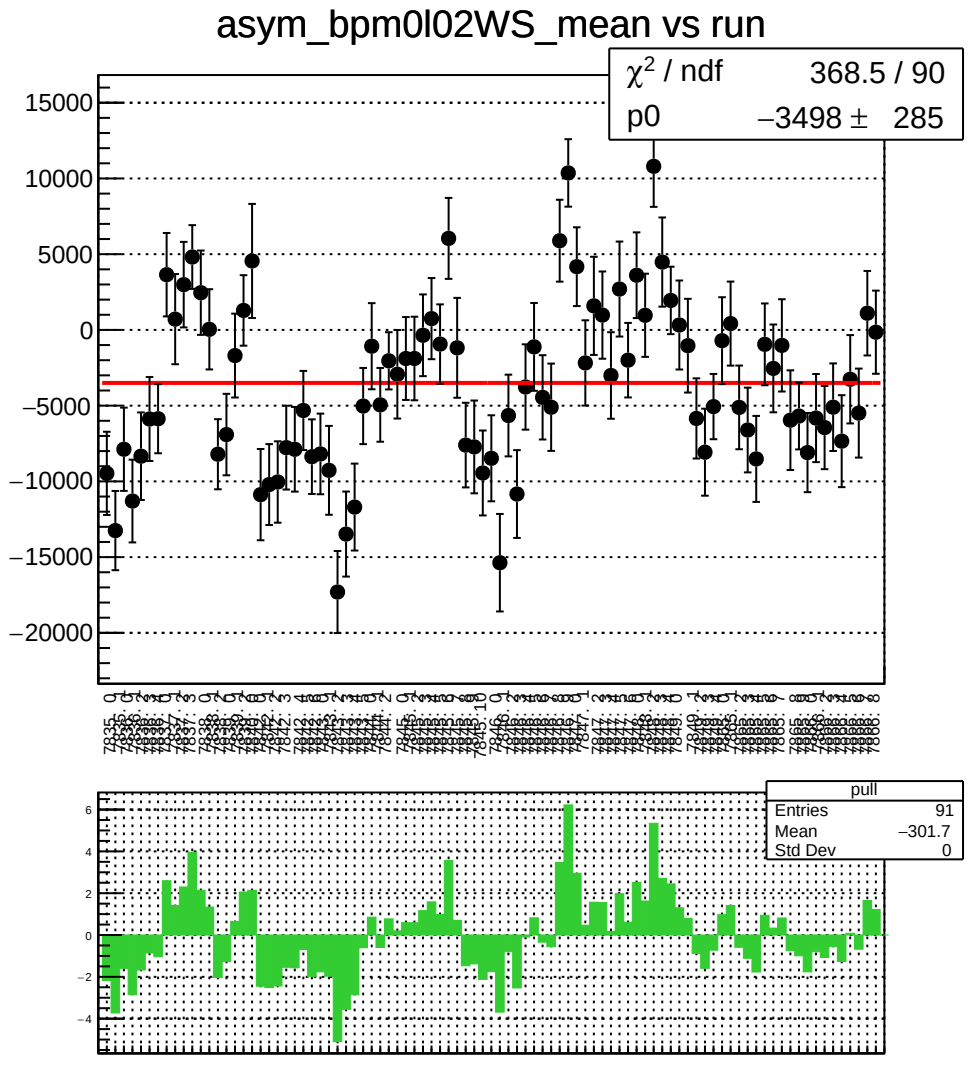

pull1D
Entries 91
Mean 0.4783
Std Dev 4.035

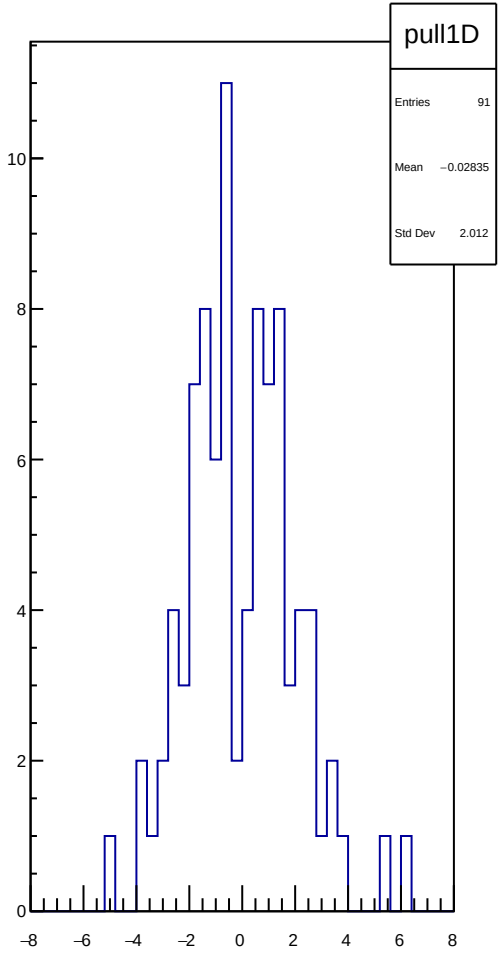

asym_bpm0i01aWS_rms vs run
χ² / ndf 9465 / 90
p0 152.9 ± 0.1157
210
200
190
180
170
160
150
140
130

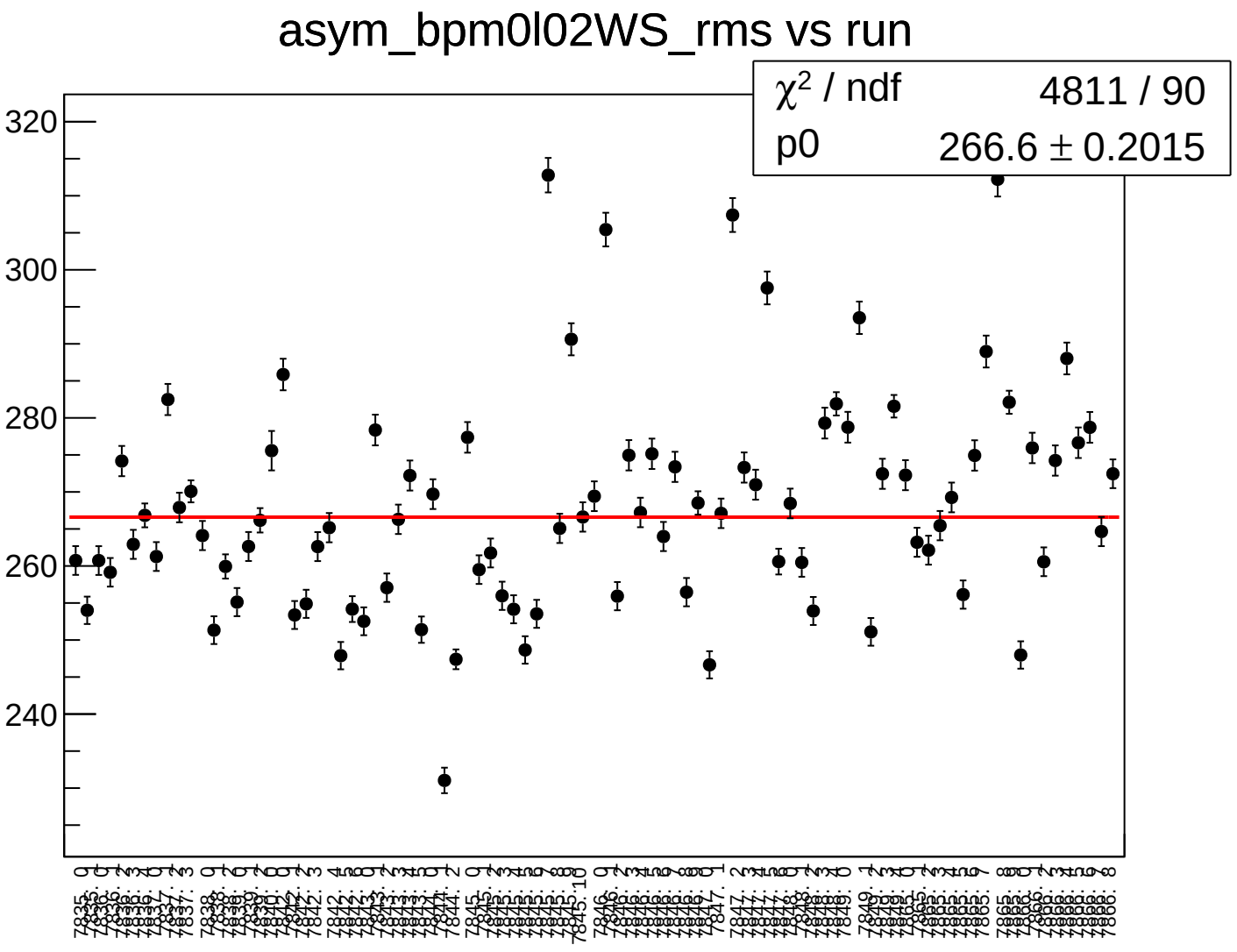

asym_bpm0l01WS_mean vs run
χ² / ndf 583.6 / 90
p0 −3154 ± 210
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −288.6
Std Dev 0
6
4
2
0
−2
−4

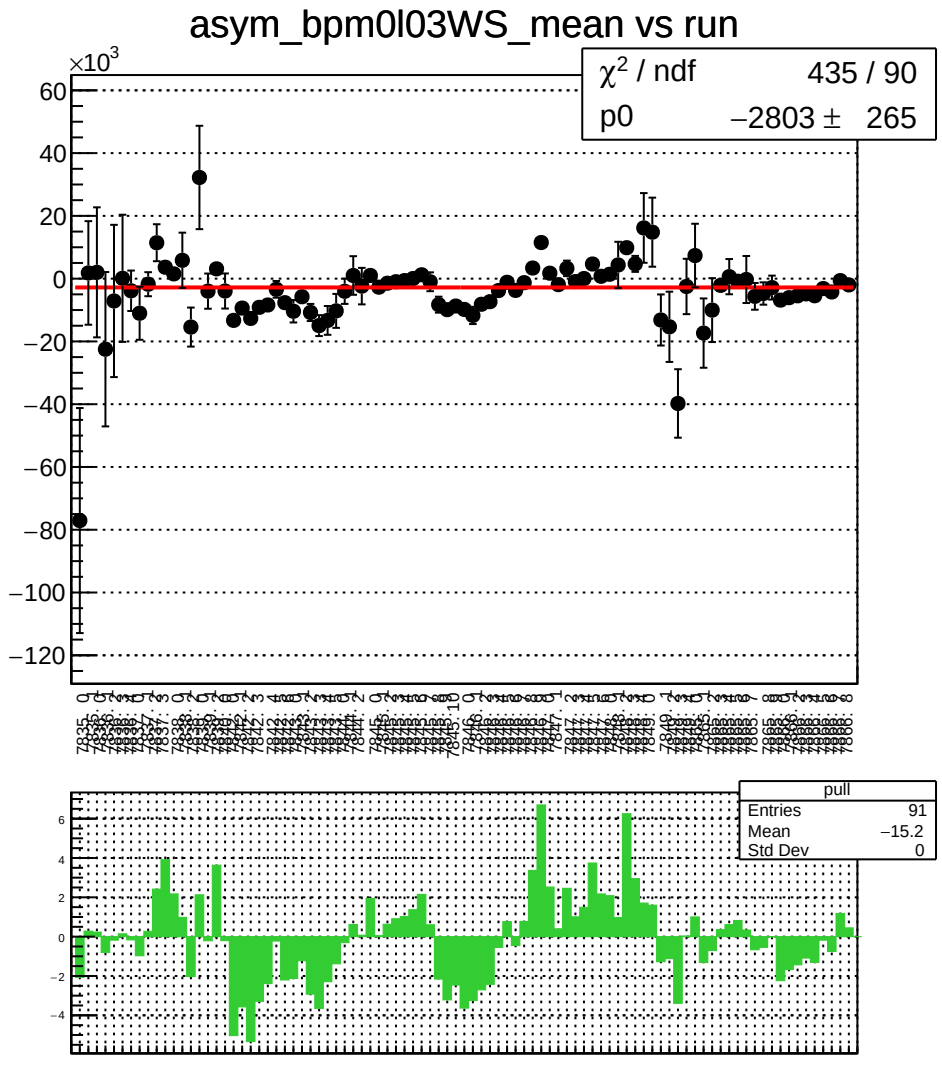

pull1D
Entries 91
Mean −0.0606
Std Dev 2.532
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

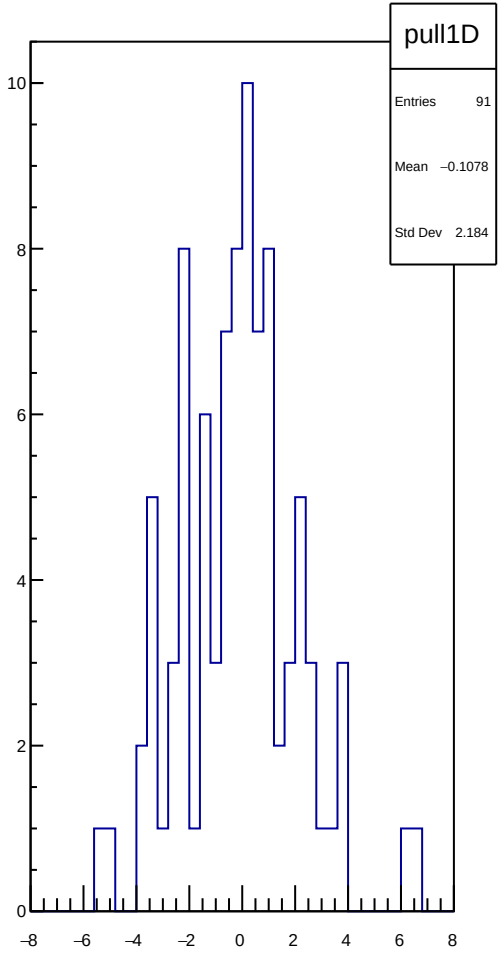

asym_bpm0l01WS_rms vs run
χ² / ndf 4166 / 90
p0 196.5 ± 0.1485
260
250
240
230
220
210
200
190
180

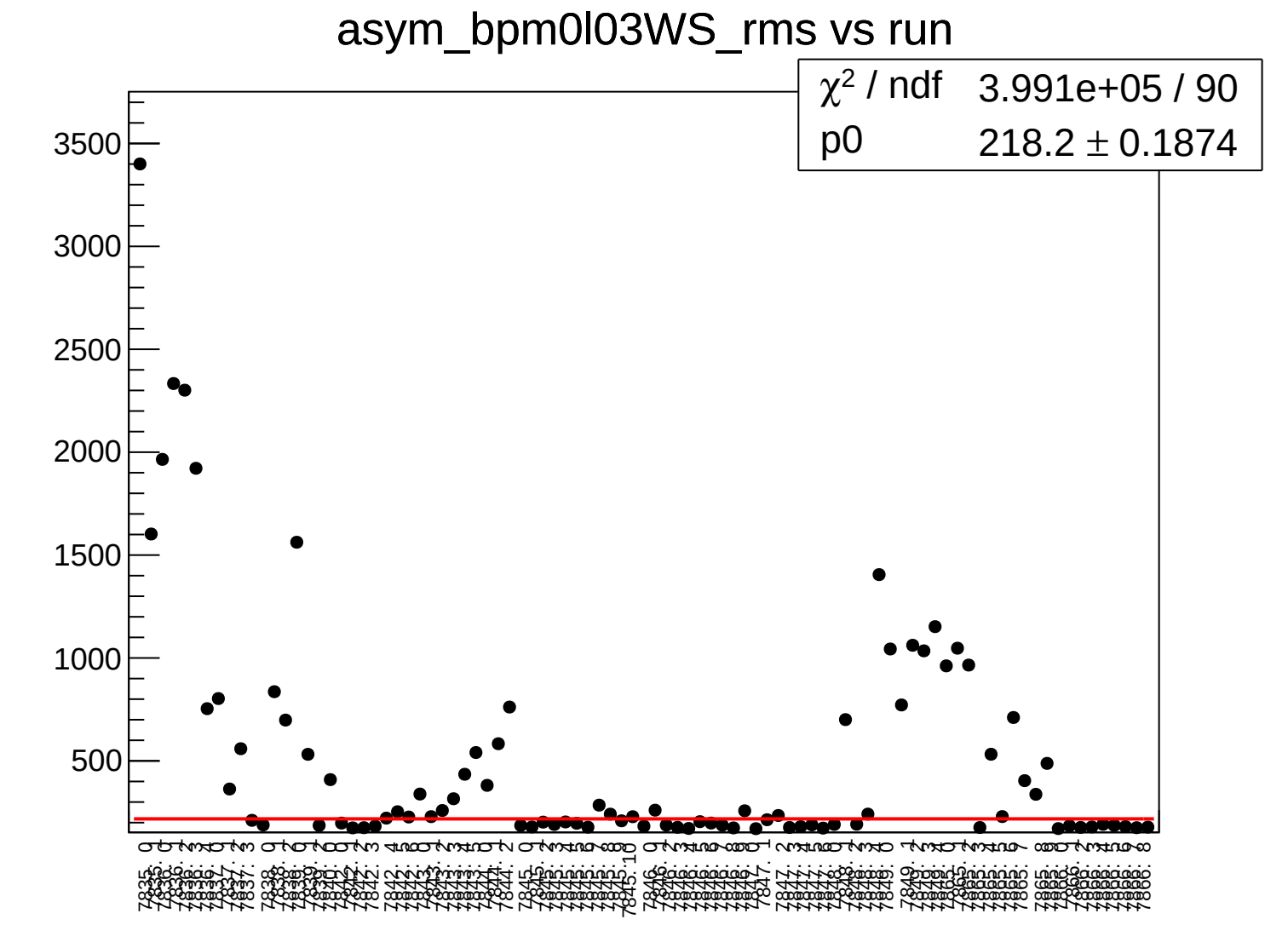

asym_bpm0l02WS_mean vs run
χ² / ndf 368.5 / 90
p0 −3498 ± 285
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean −301.7
Std Dev 0
6
4
2
0
−2
−4

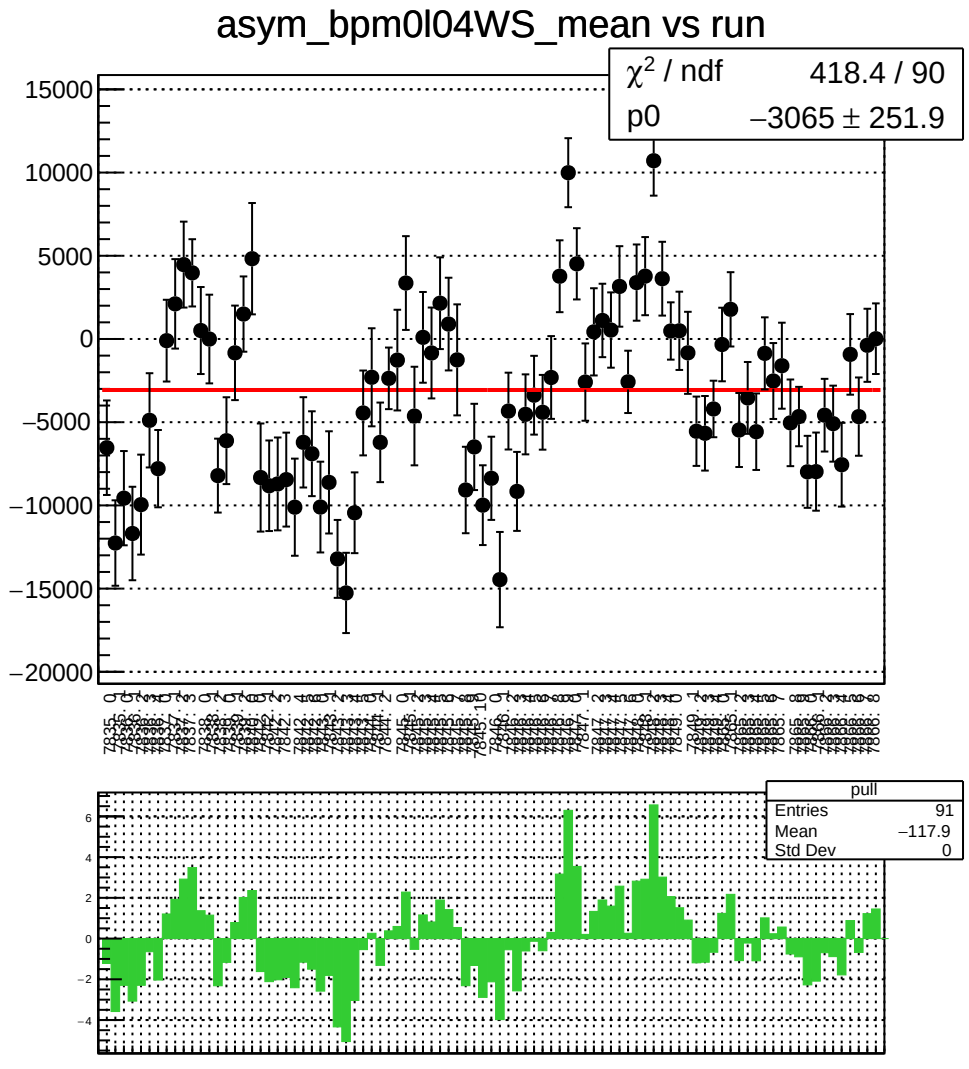

pull1D
Entries 91
Mean −0.02835
Std Dev 2.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

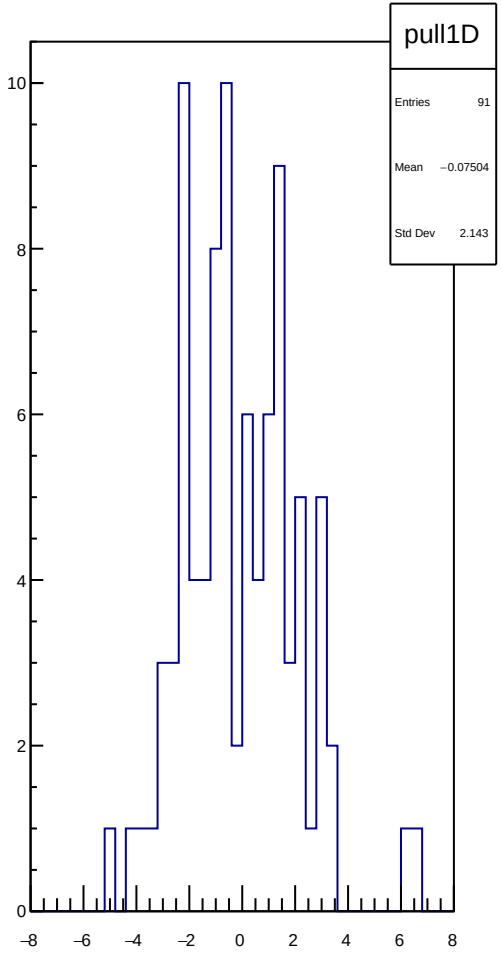

asym_bpm0l02WS_rms vs run
χ² / ndf 4811 / 90
p0 266.6 ± 0.2015
320
300
280
260
240

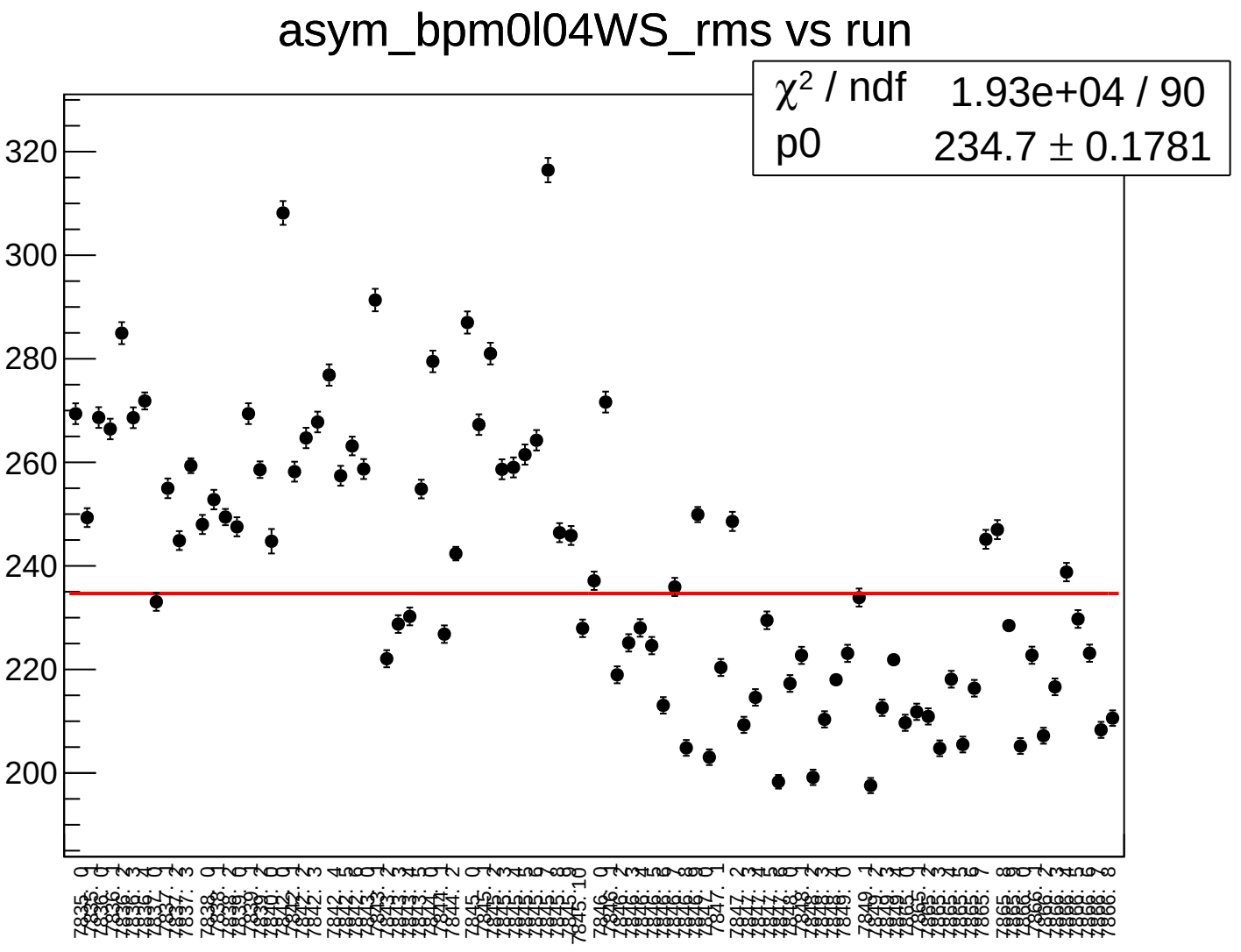

asym_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 435 / 90
p0 −2803 ± 265
pull
Entries 91
Mean −15.2
Std Dev 0

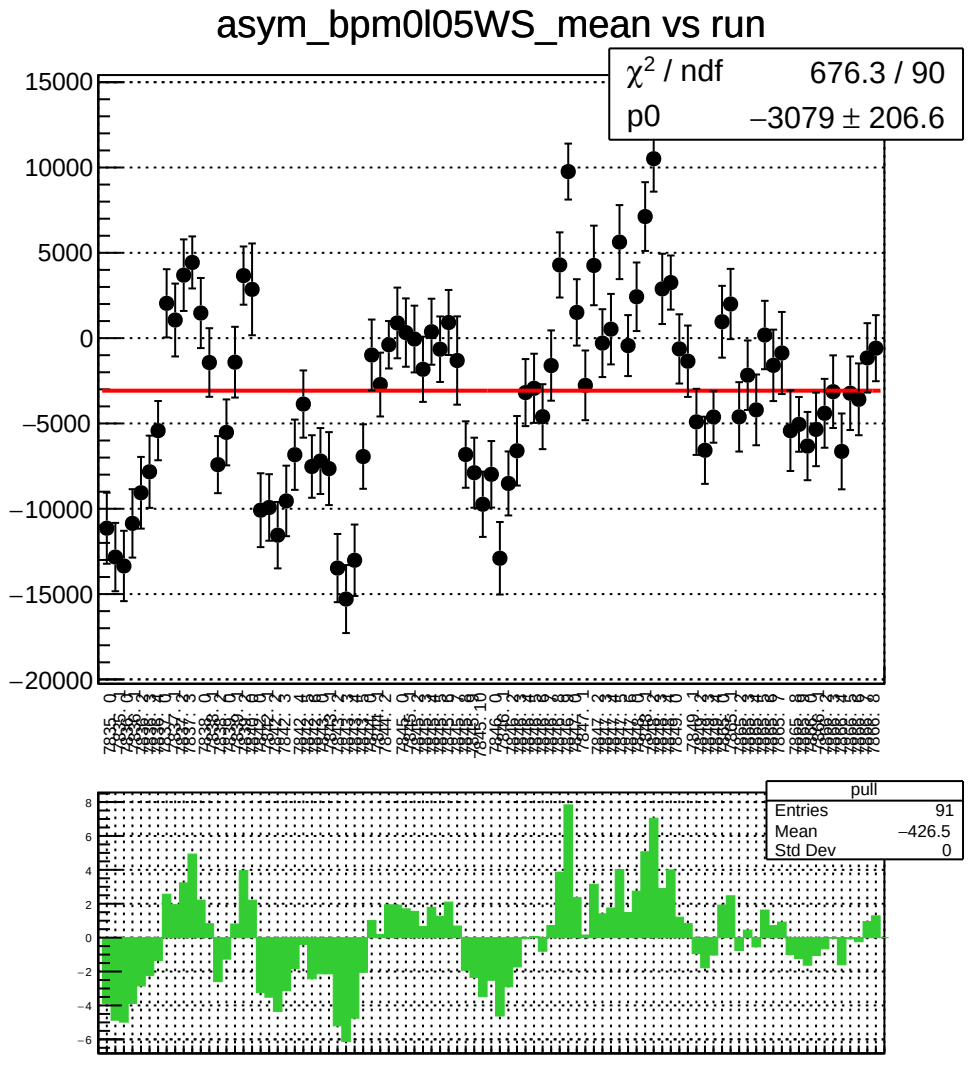

pull1D
Entries 91
Mean −0.1078
Std Dev 2.184

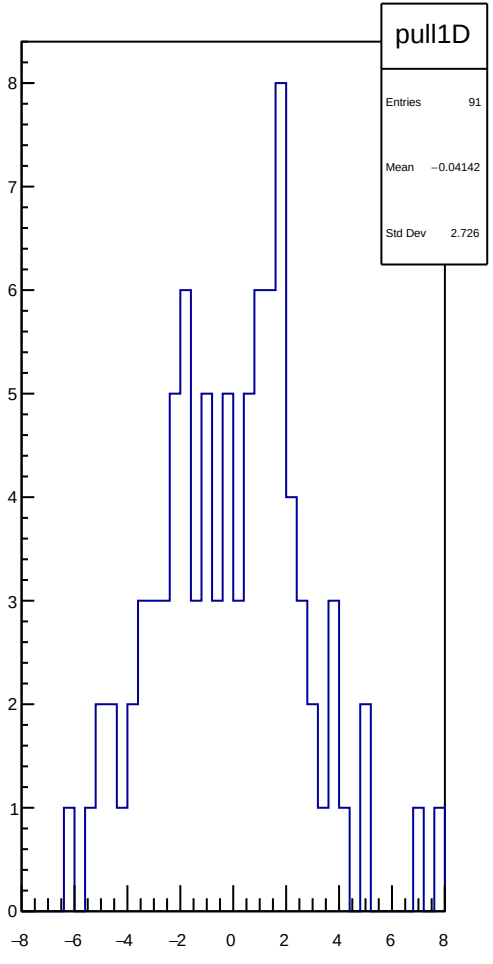

asym_bpm0l03WS_rms vs run
χ² / ndf 3.991e+05 / 90
p0 218.2 ± 0.1874
3500
3000
2500
2000
1500
1000
500

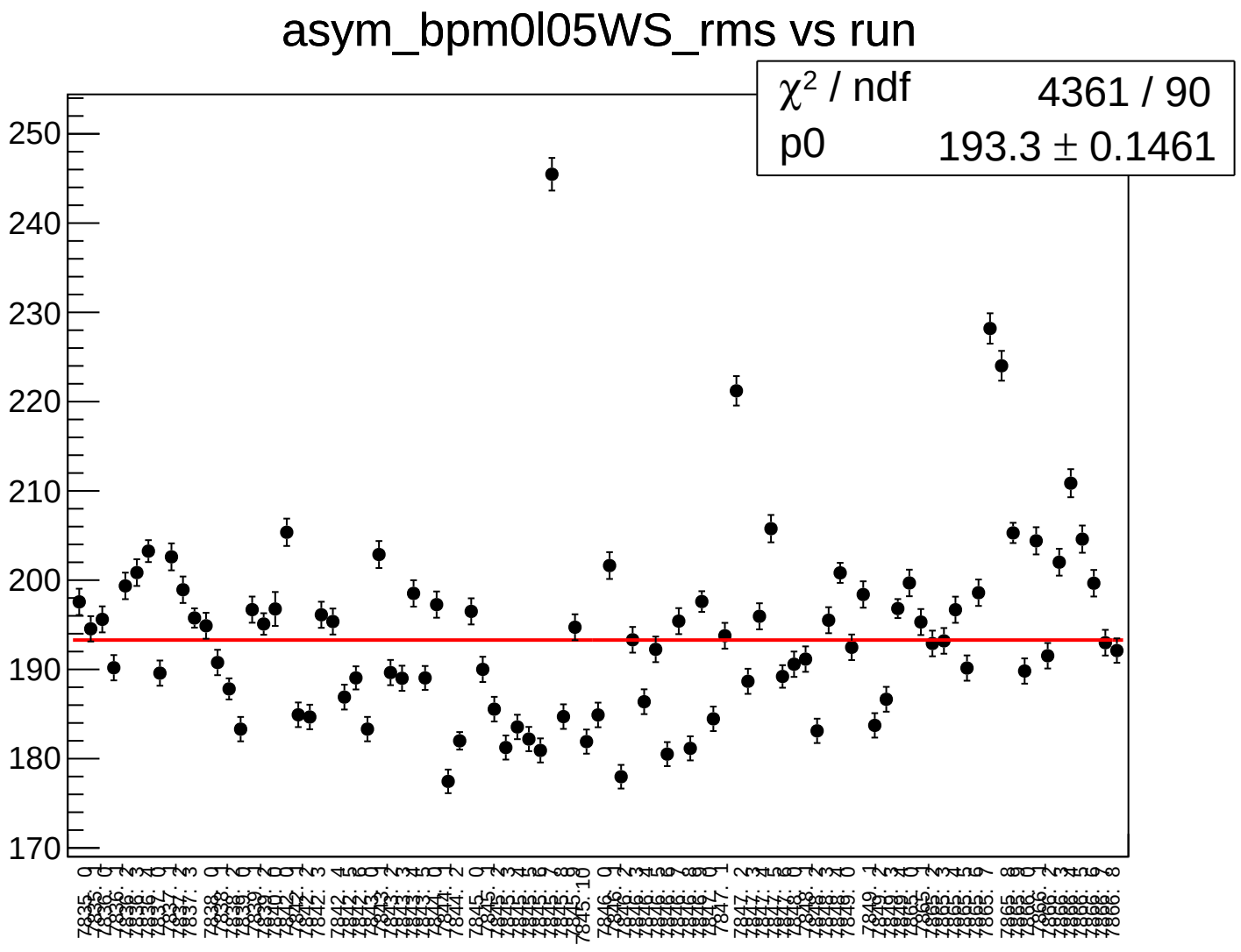

asym_bpm0l04WS_mean vs run
χ² / ndf 418.4 / 90
p0 −3065 ± 251.9
pull
Entries 91
Mean −117.9
Std Dev 0

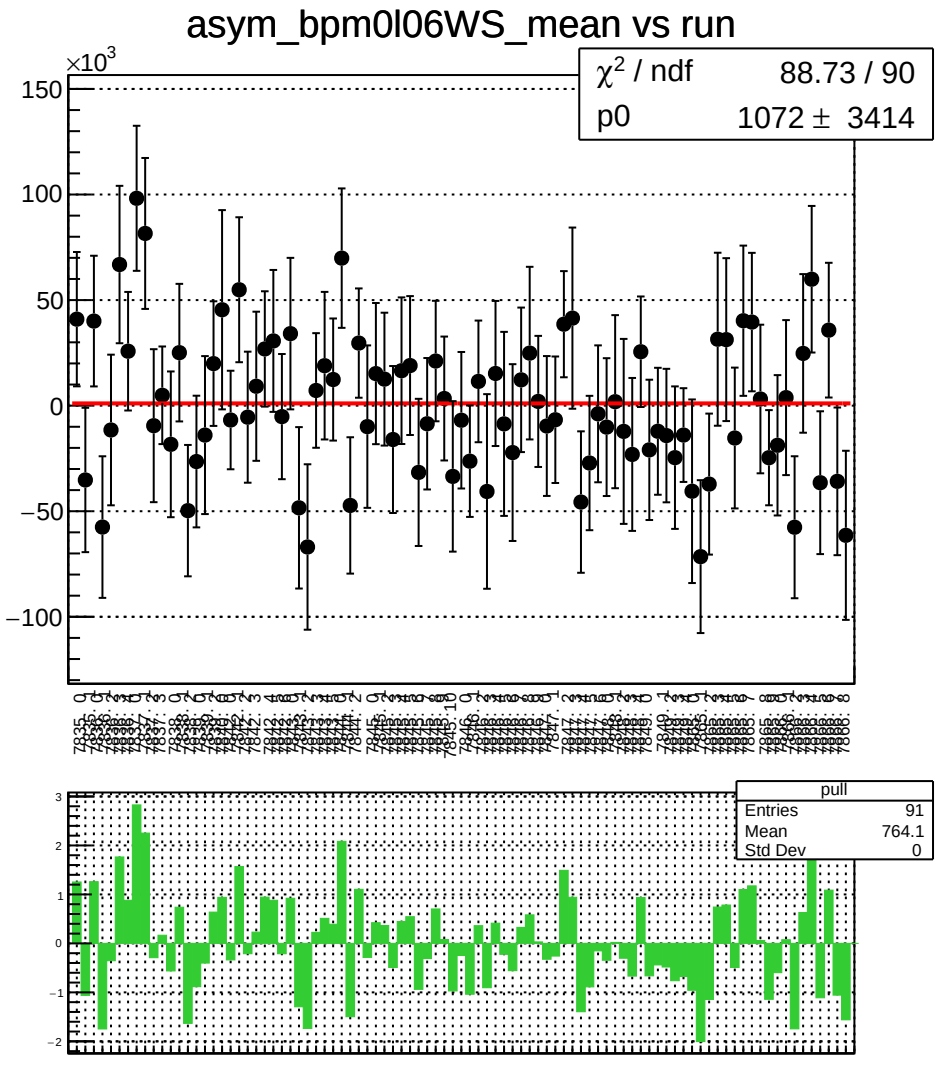

pull1D
Entries 91
Mean −0.07504
Std Dev 2.143

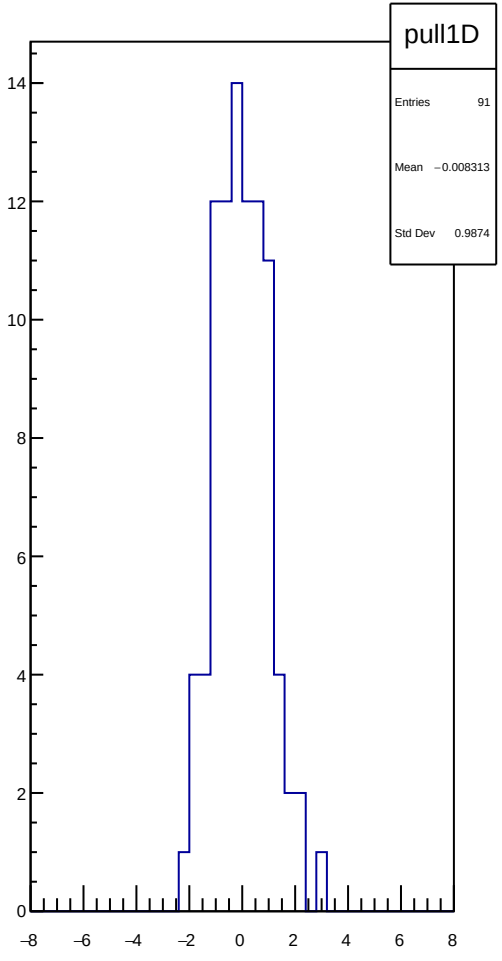

asym_bpm0l04WS_rms vs run
χ² / ndf 1.93e+04 / 90
p0 234.7 ± 0.1781
320
300
280
260
240
220
200

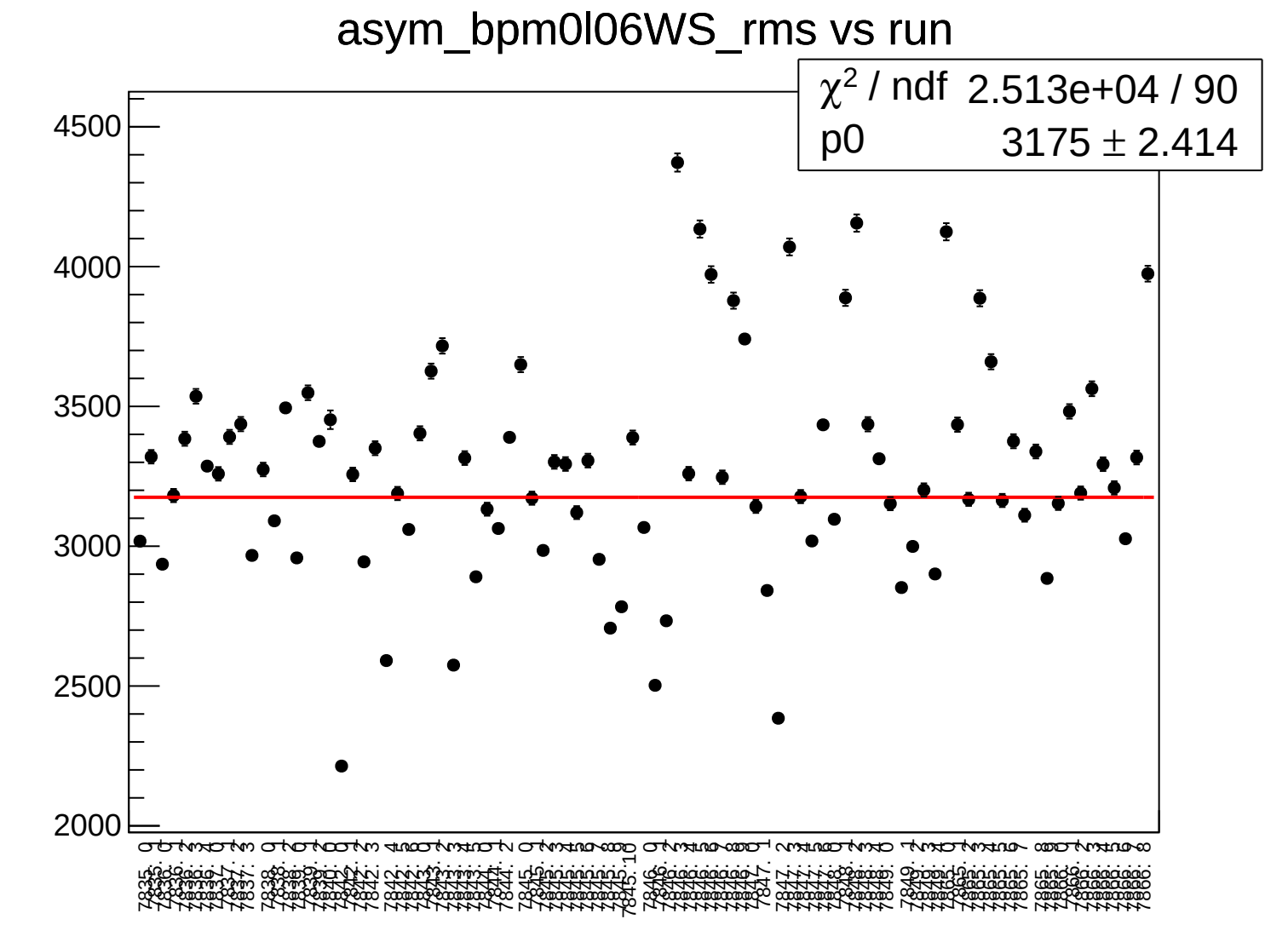

asym_bpm0l05WS_mean vs run
χ² / ndf 676.3 / 90
p0 −3079 ± 206.6
pull
Entries 91
Mean −426.5
Std Dev 0

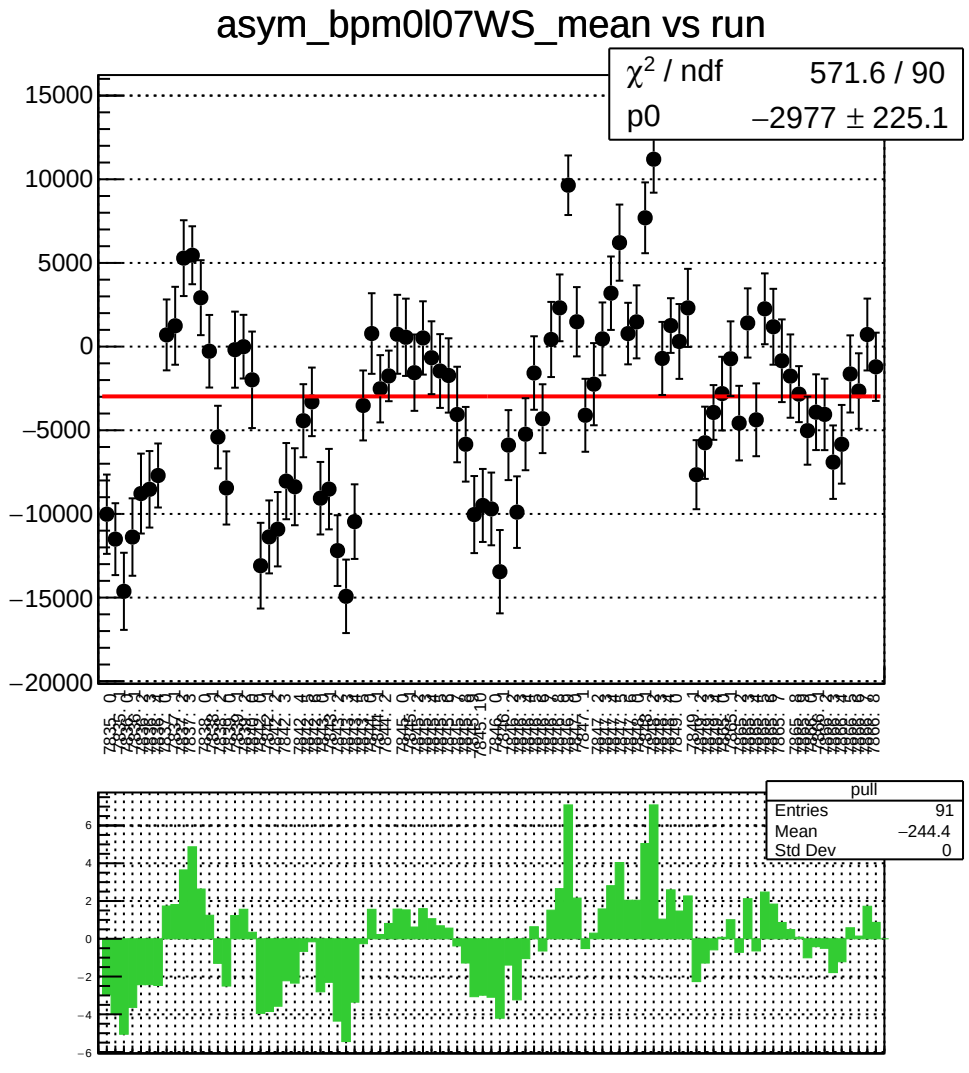

pull1D
Entries 91
Mean −0.04142
Std Dev 2.726

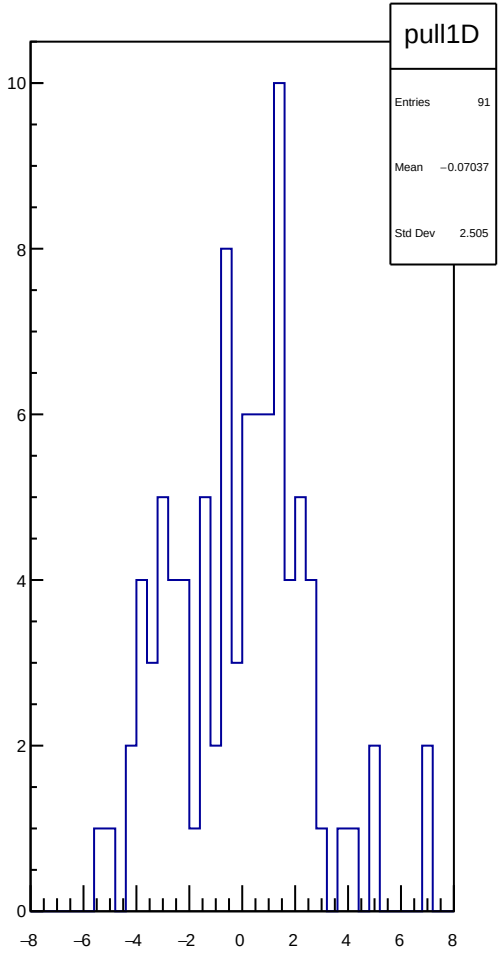

asym_bpm0l05WS_rms vs run
χ² / ndf 4361 / 90
p0 193.3 ± 0.1461
250
240
230
220
210
200
190
180
170

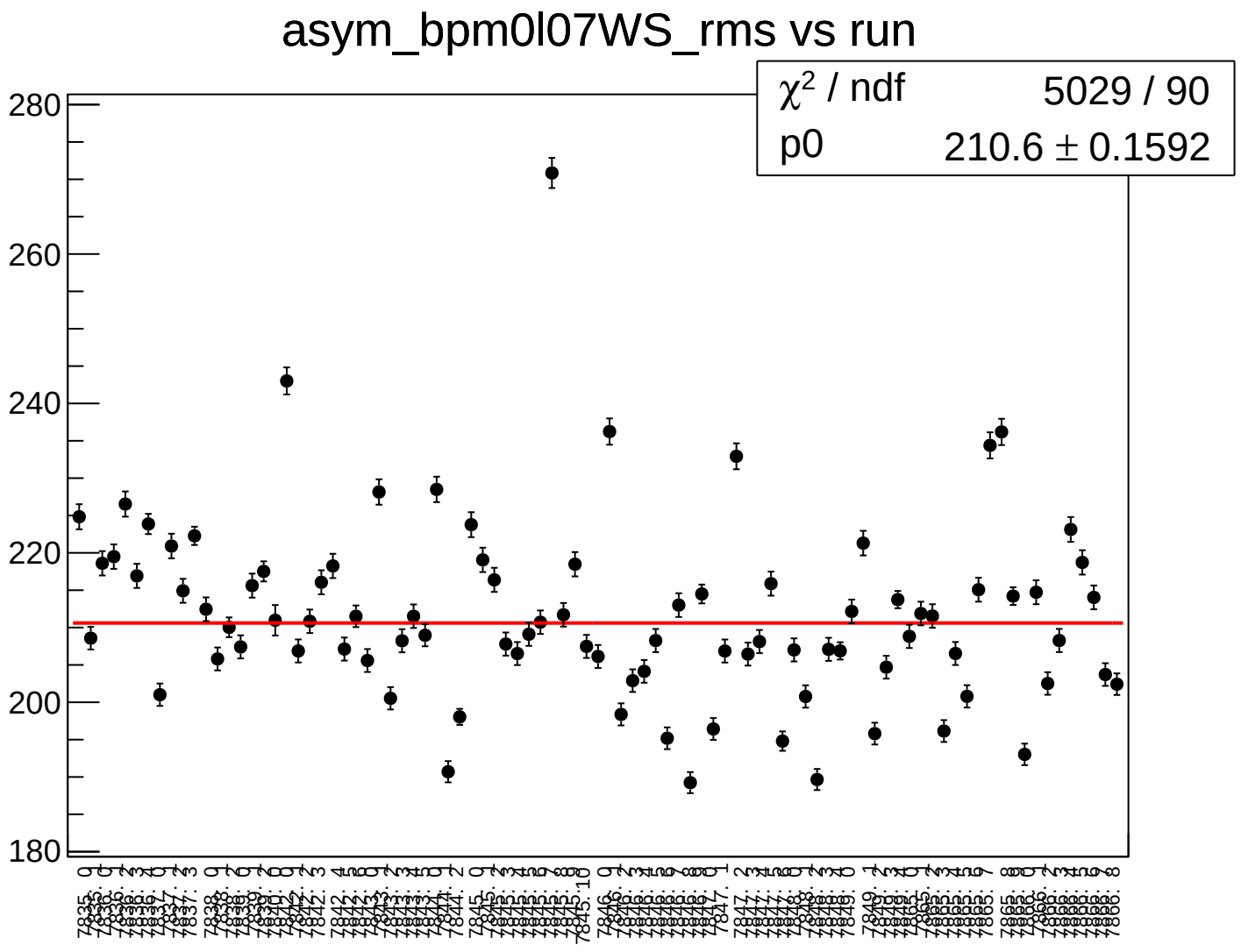

asym_bpm0l06WS_mean vs run
×10^3
χ² / ndf 88.73 / 90
p0 1072 ± 3414
150
100
50
0
−50
−100
pull
Entries 91
Mean 764.1
Std Dev 0
3
2
1
0
−1
−2

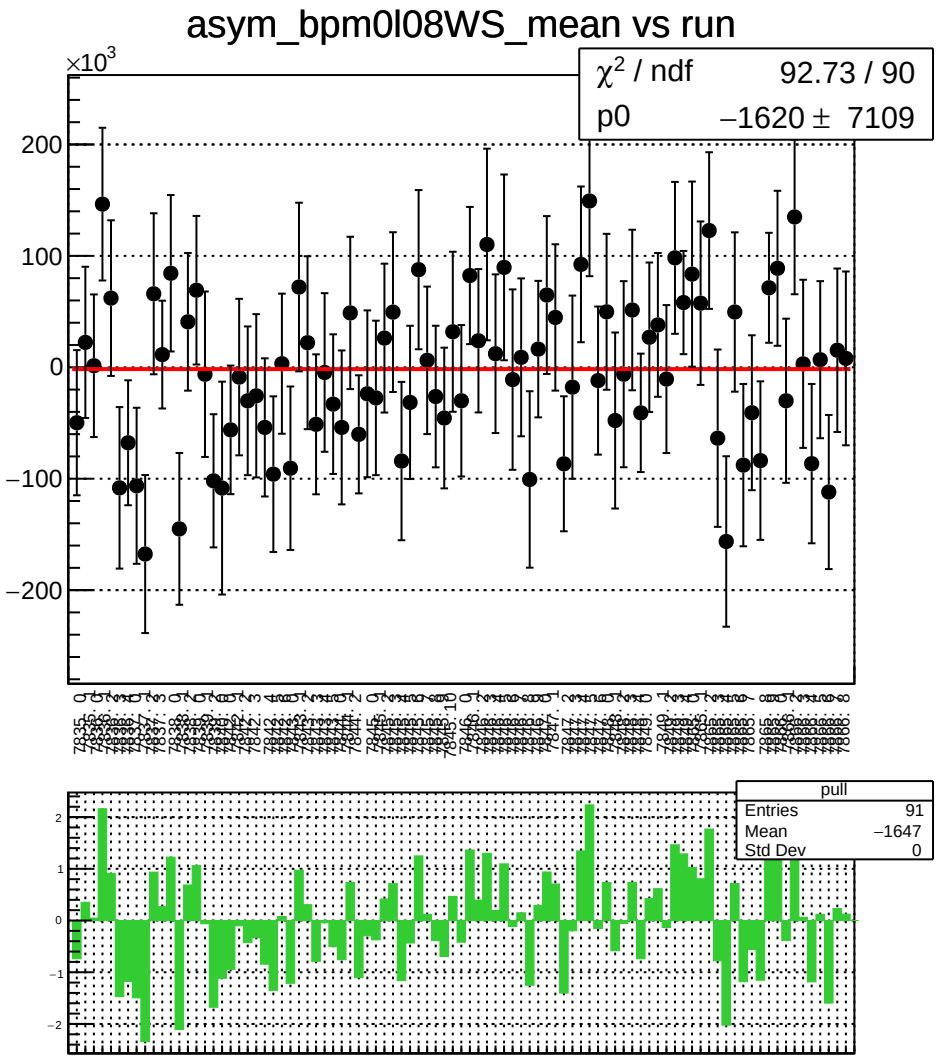

pull1D
Entries 91
Mean −0.008313
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

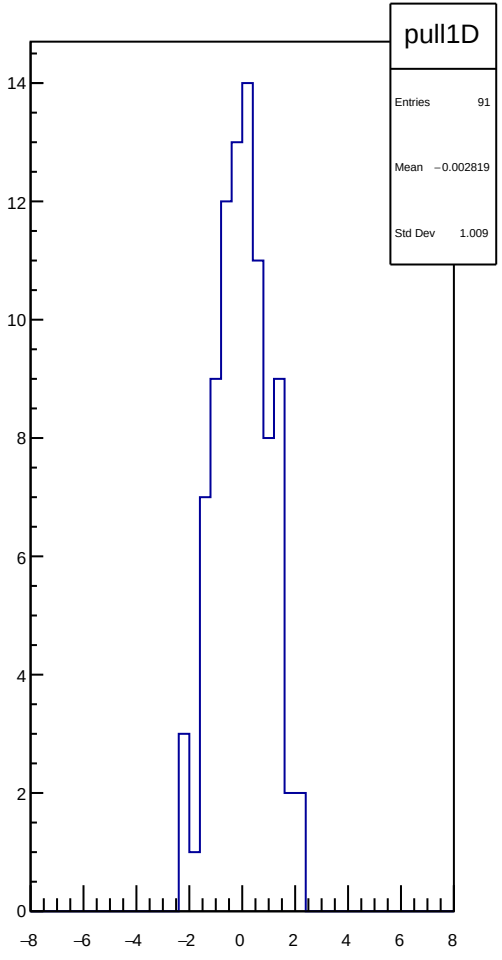

asym_bpm0l06WS_rms vs run
χ^2 / ndf 2.513e+04 / 90
p0 3175 ± 2.414
4500
4000
3500
3000
2500
2000

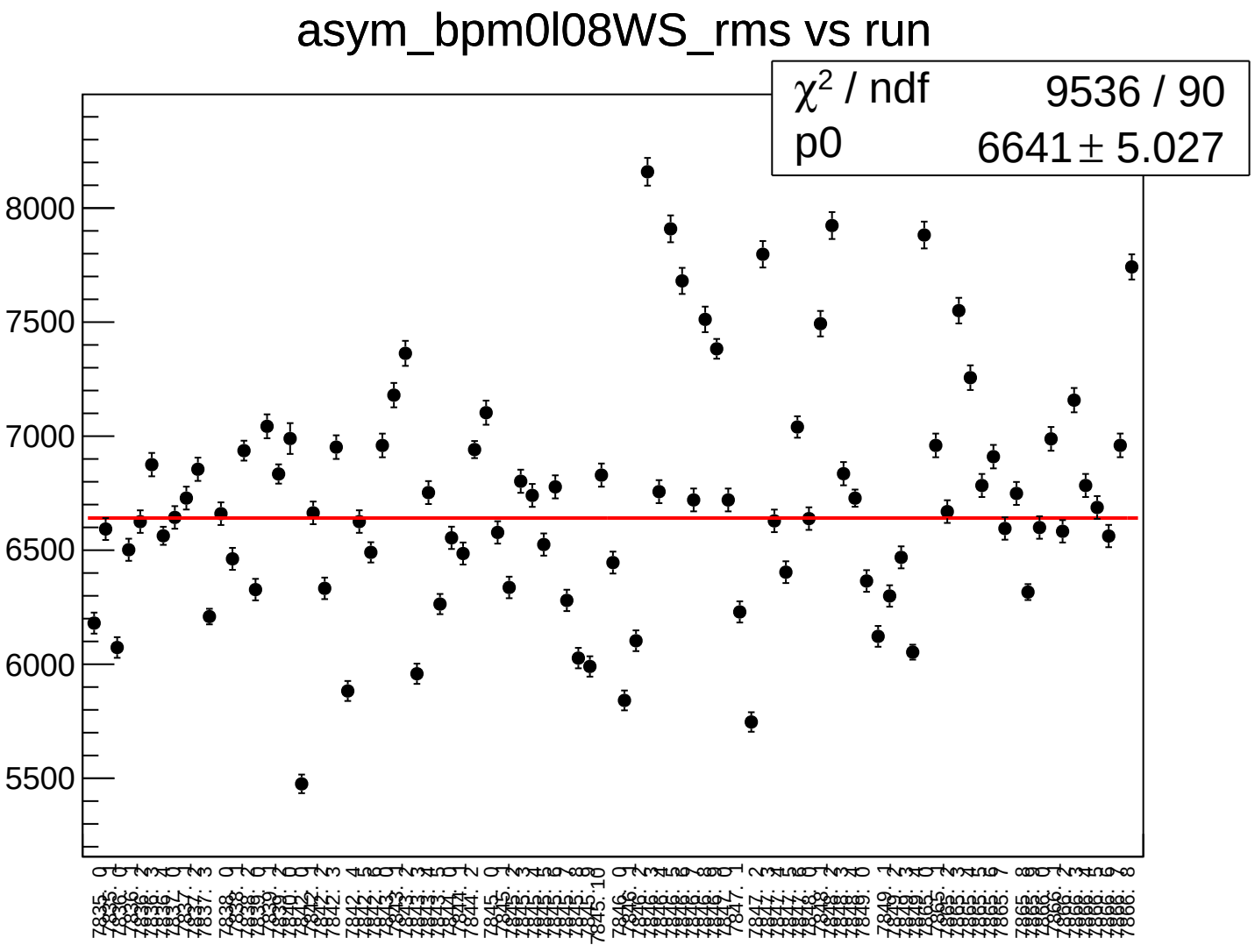

asym_bpm0l07WS_mean vs run
χ² / ndf 571.6 / 90
p0 −2977 ± 225.1
pull
Entries 91
Mean −244.4
Std Dev 0

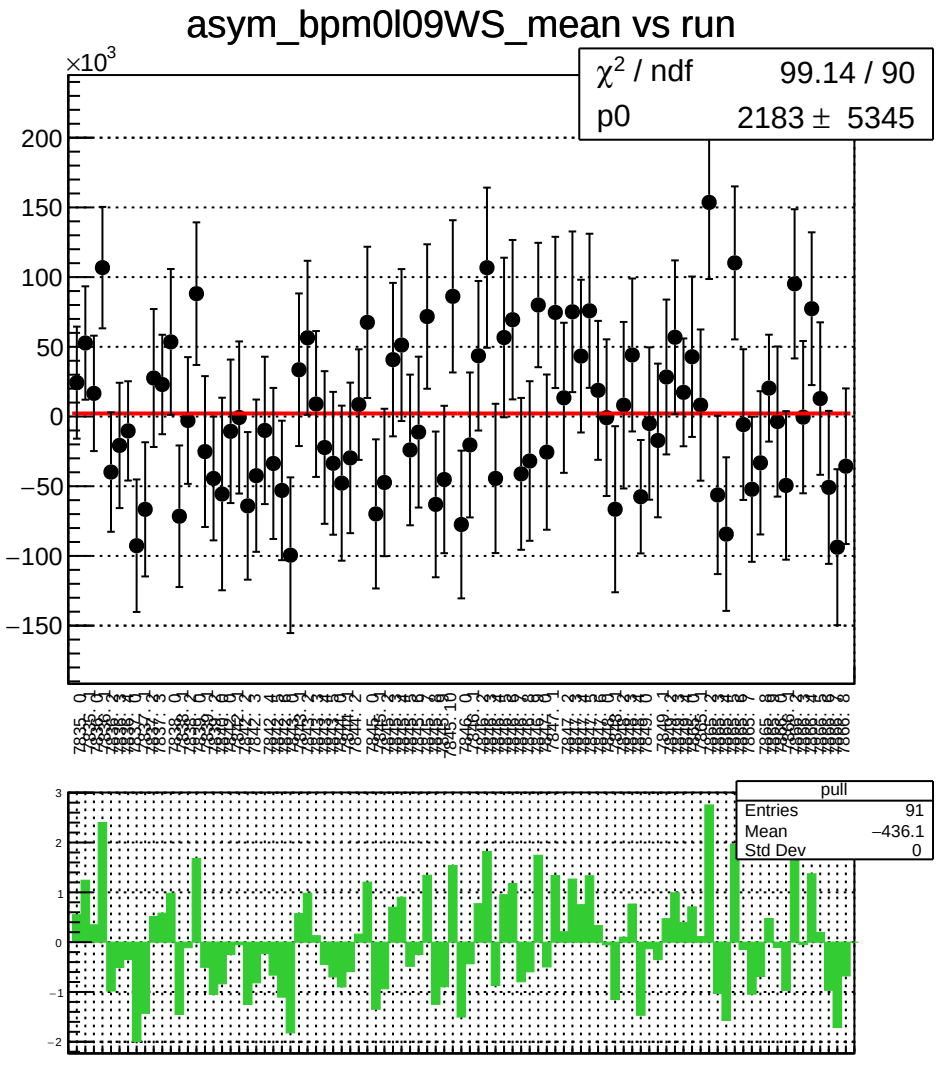

pull1D
Entries 91
Mean −0.07037
Std Dev 2.505

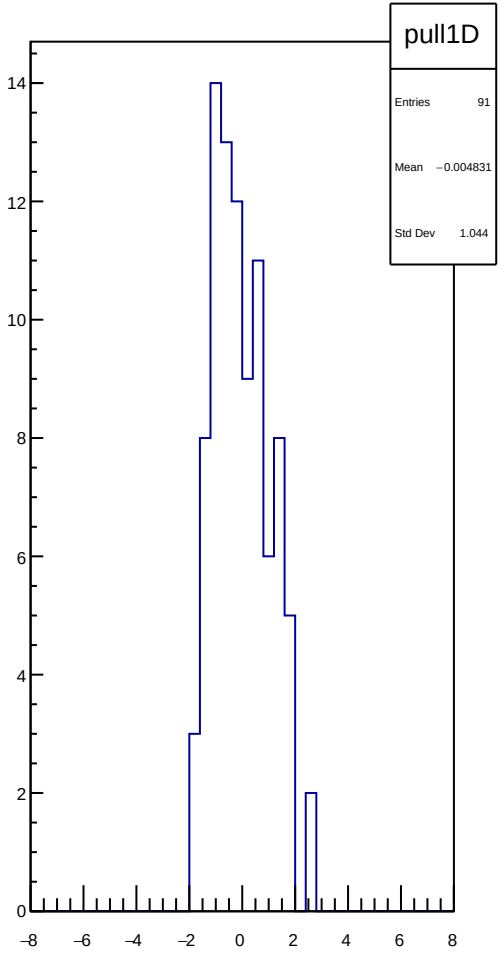

asym_bpm0l07WS_rms vs run
χ² / ndf 5029 / 90
p0 210.6 ± 0.1592
280
260
240
220
200
180


asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 92.73 / 90
p0 −1620 ± 7109
200
100
0
−100
−200
pull
Entries 91
Mean −1647
Std Dev 0
2
1
0
−1
−2

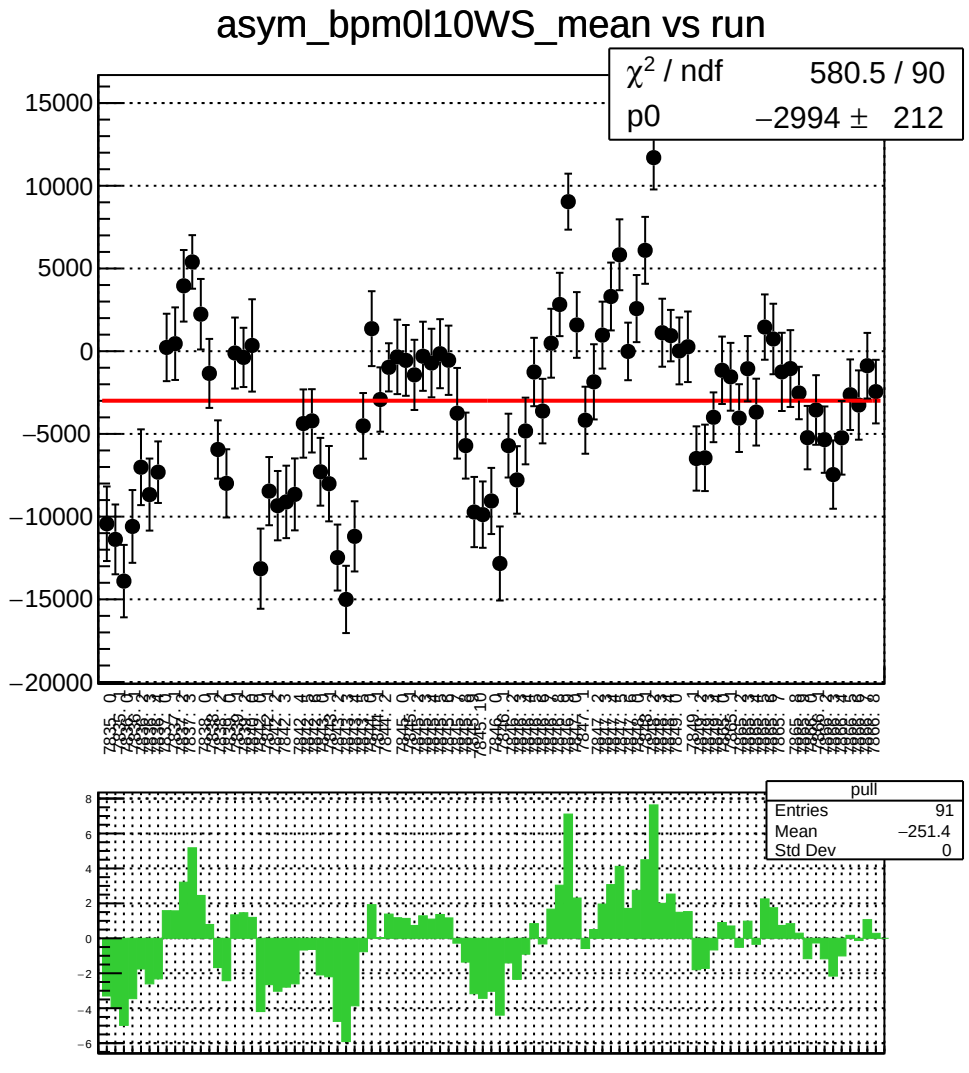

pull1D
Entries 91
Mean −0.002819
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

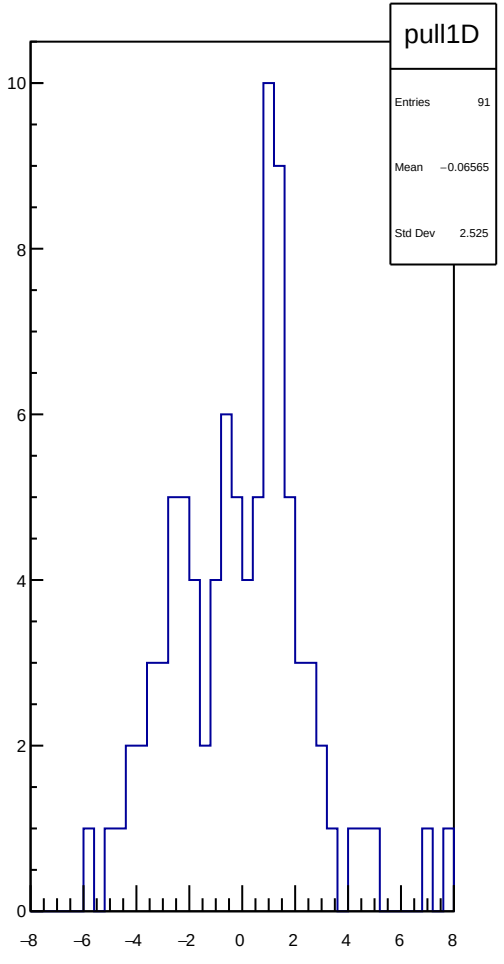

asym_bpm0l08WS_rms vs run
χ² / ndf 9536 / 90
p0 6641 ± 5.027
8000
7500
7000
6500
6000
5500

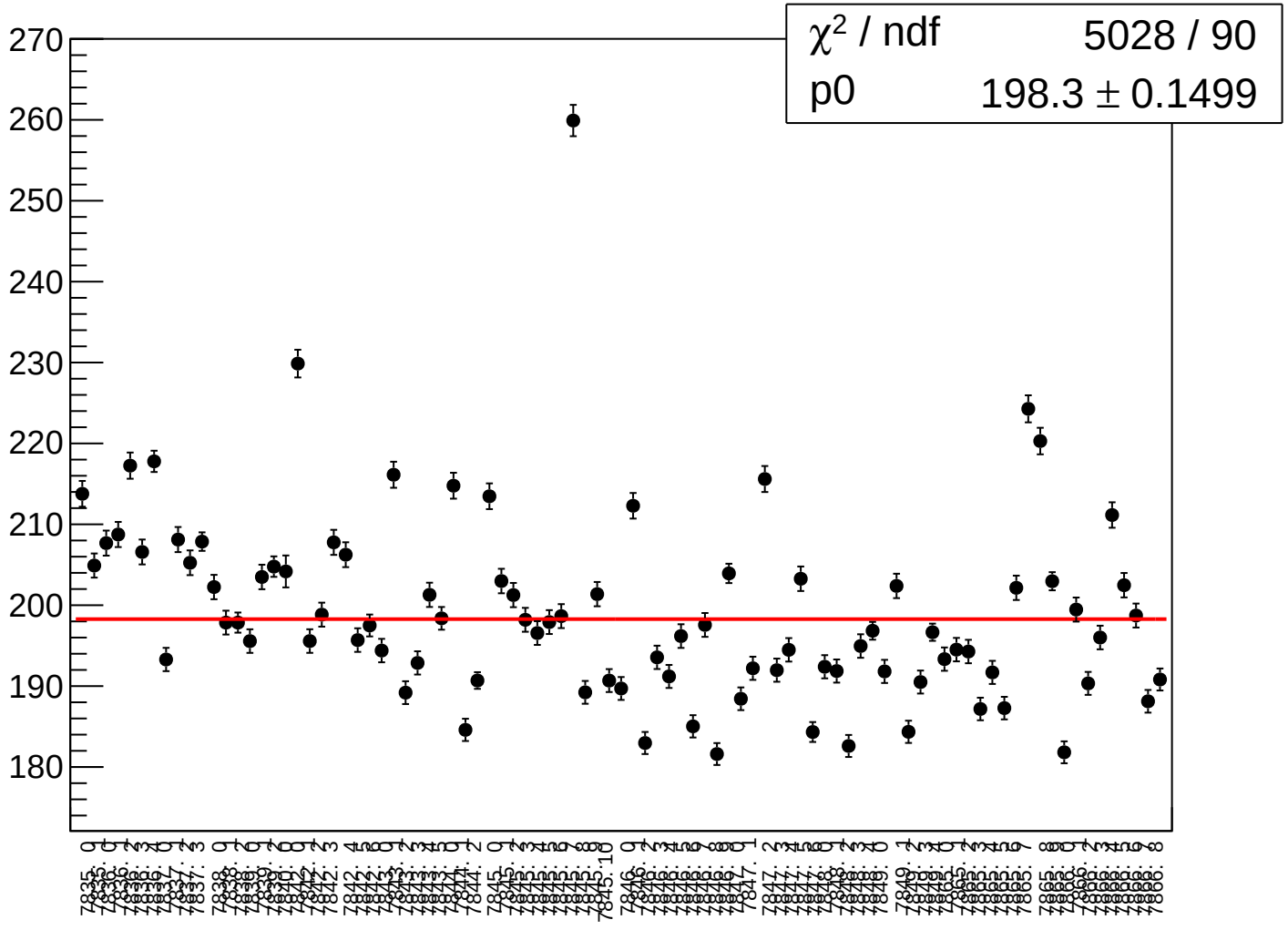

asym_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 99.14 / 90
p0 2183 ± 5345
200
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −436.1
Std Dev 0
3
2
1
0
−1
−2

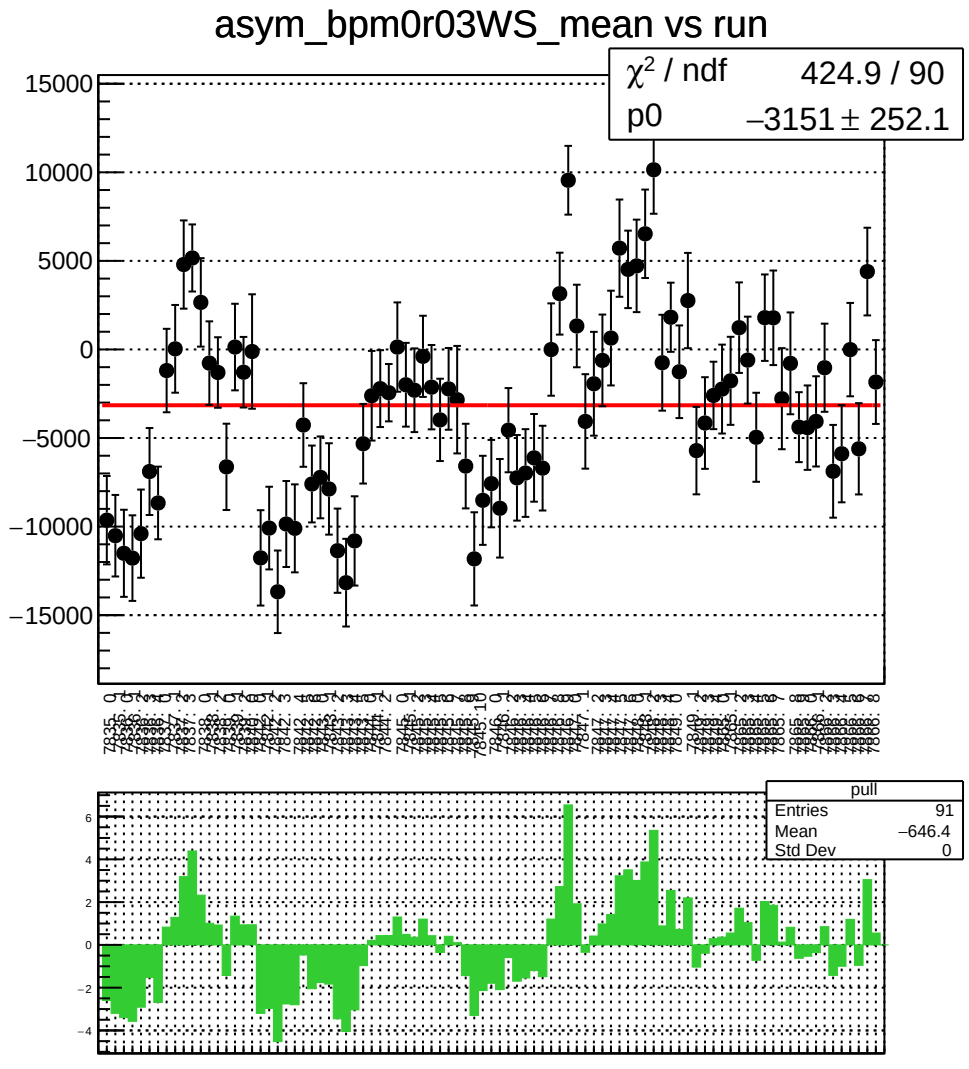

pull1D
Entries 91
Mean −0.004831
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

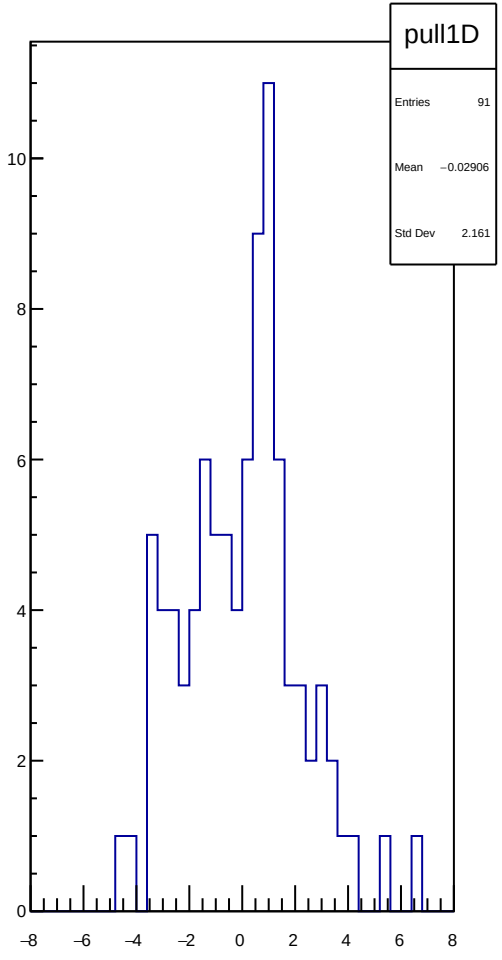
asym_bpm0l09WS_rms vs run

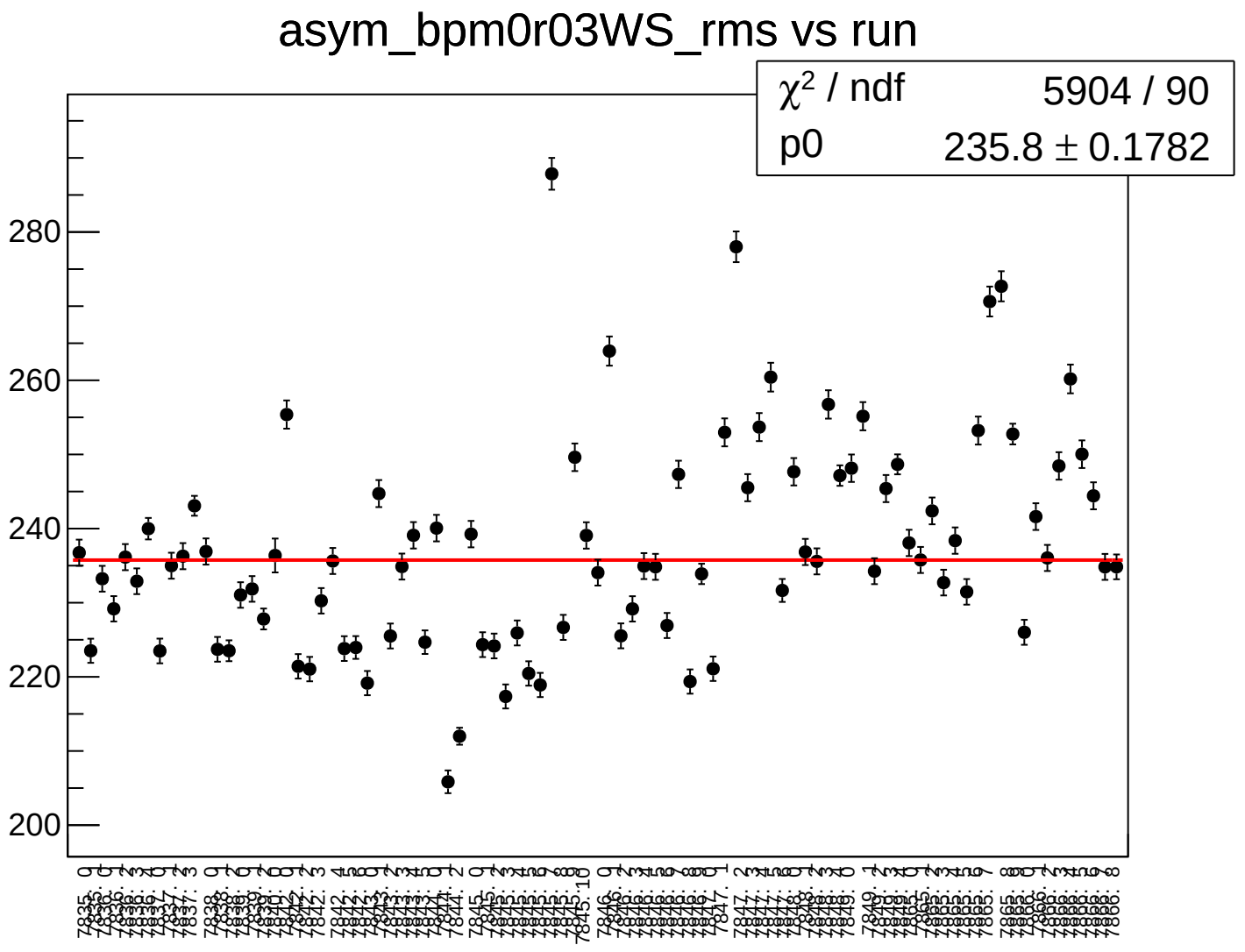

asym_bpm0l10WS_mean vs run
χ² / ndf 580.5 / 90
p0 −2994 ± 212
pull
Entries 91
Mean −251.4
Std Dev 0

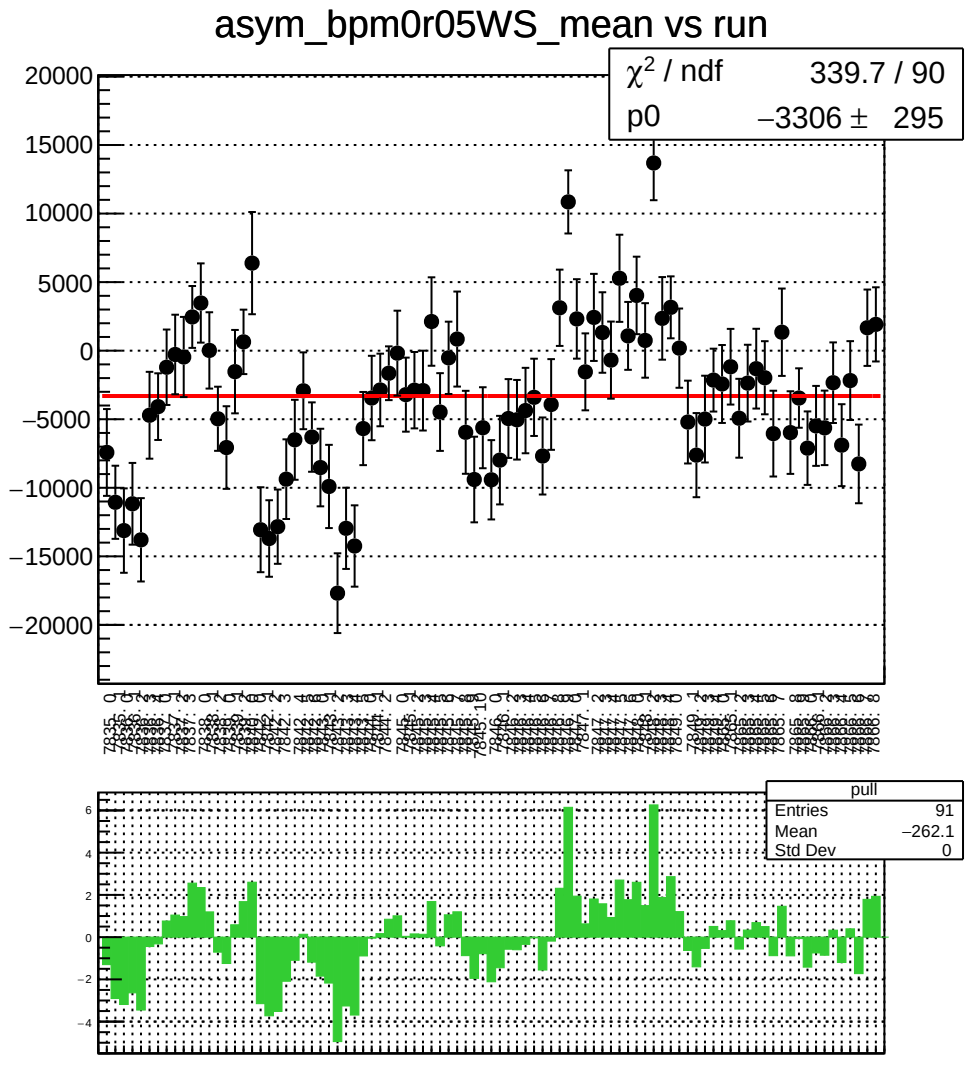

pull1D
Entries 91
Mean −0.06565
Std Dev 2.525

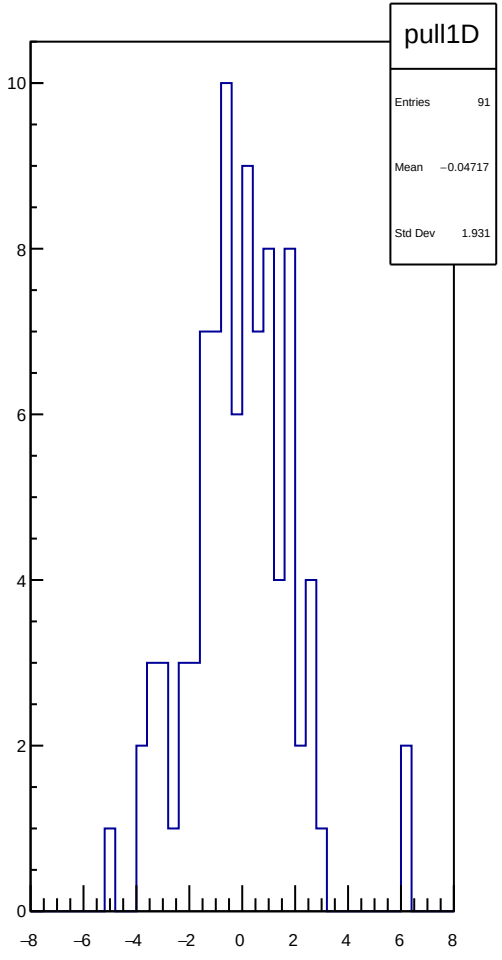

asym_bpm0l10WS_rms vs run
χ^2 / ndf 5028 / 90
p0 198.3 ± 0.1499
270
260
250
240
230
220
210
200
190
180

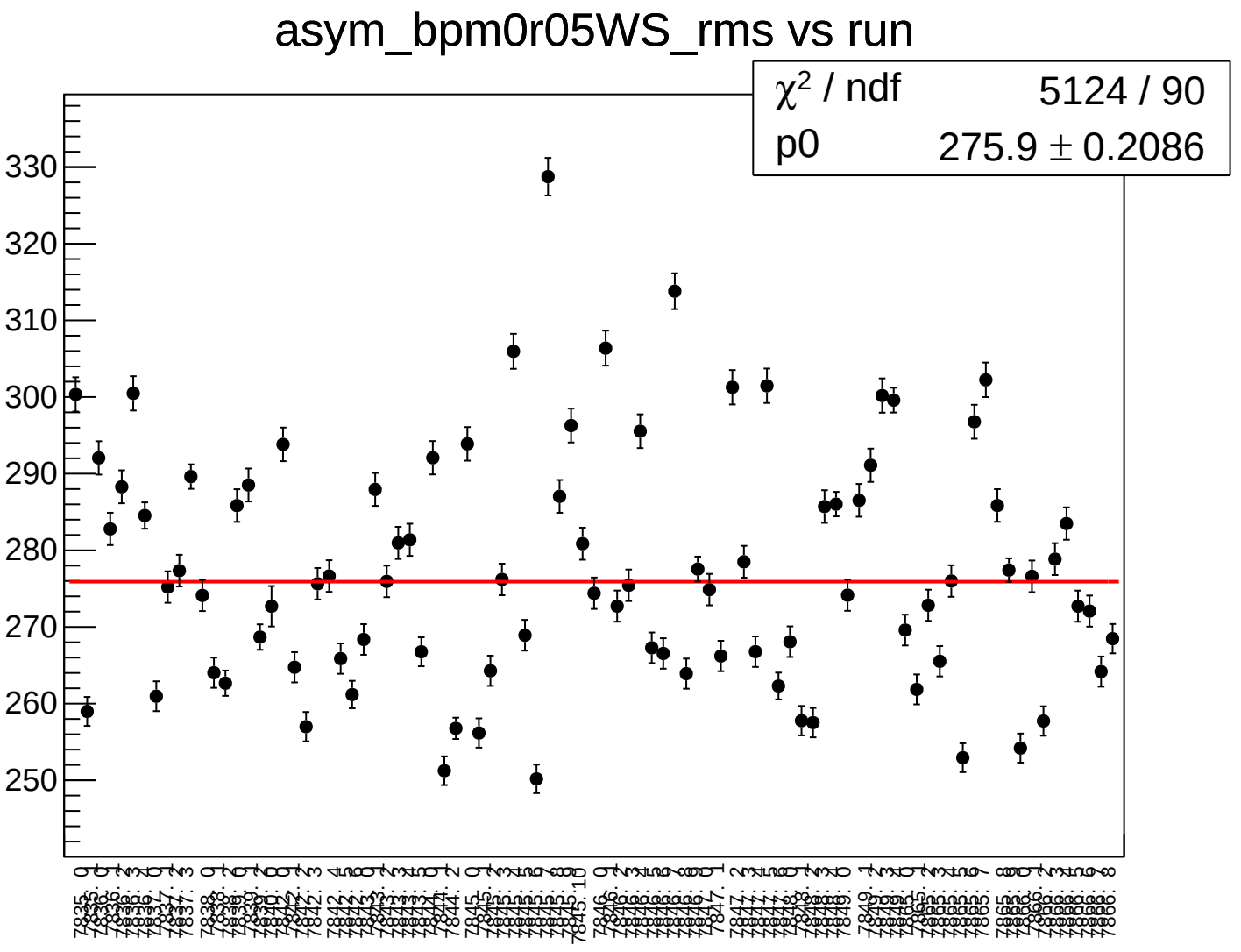

asym_bpm0r03WS_mean vs run
χ² / ndf 424.9 / 90
p0 −3151 ± 252.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −646.4
Std Dev 0
6
4
2
0
−2
−4

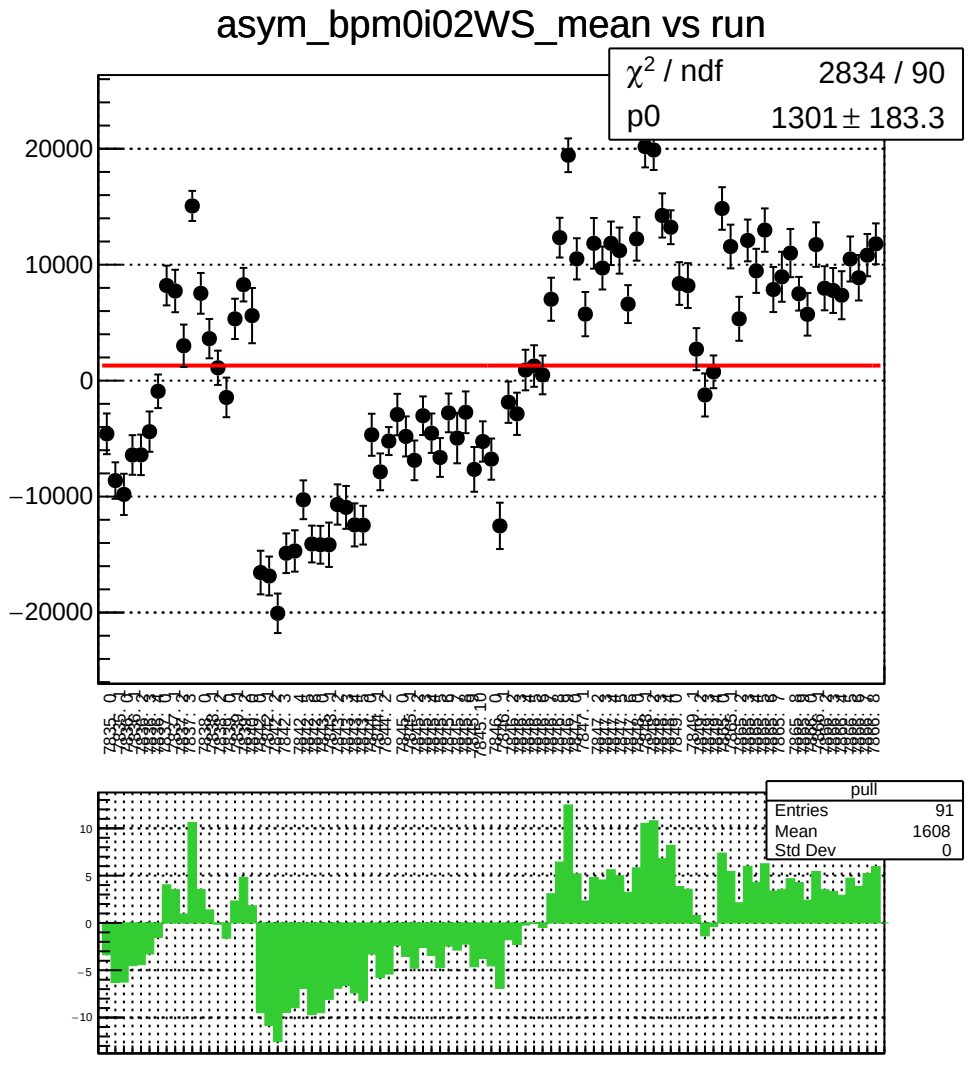

pull1D
Entries 91
Mean −0.02906
Std Dev 2.161
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

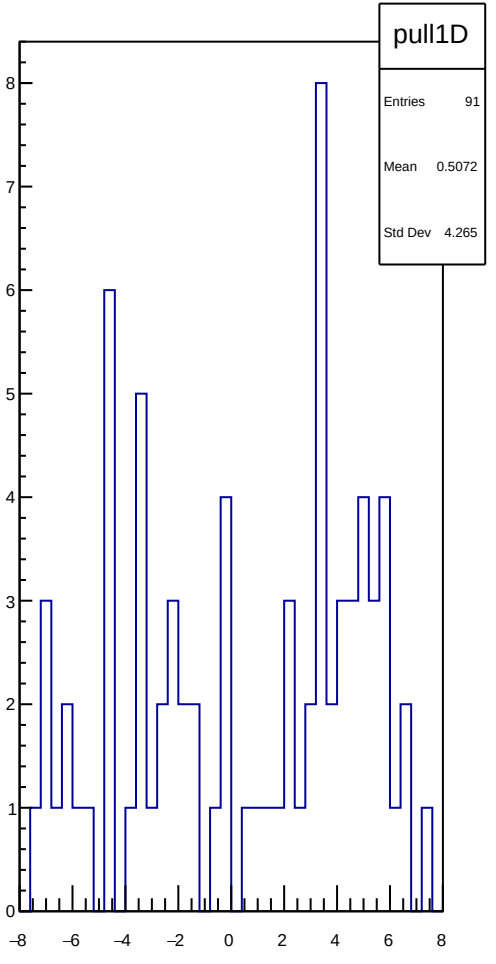

asym_bpm0r03WS_rms vs run
χ^2 / ndf 5904 / 90
p0 235.8 ± 0.1782
280
260
240
220
200

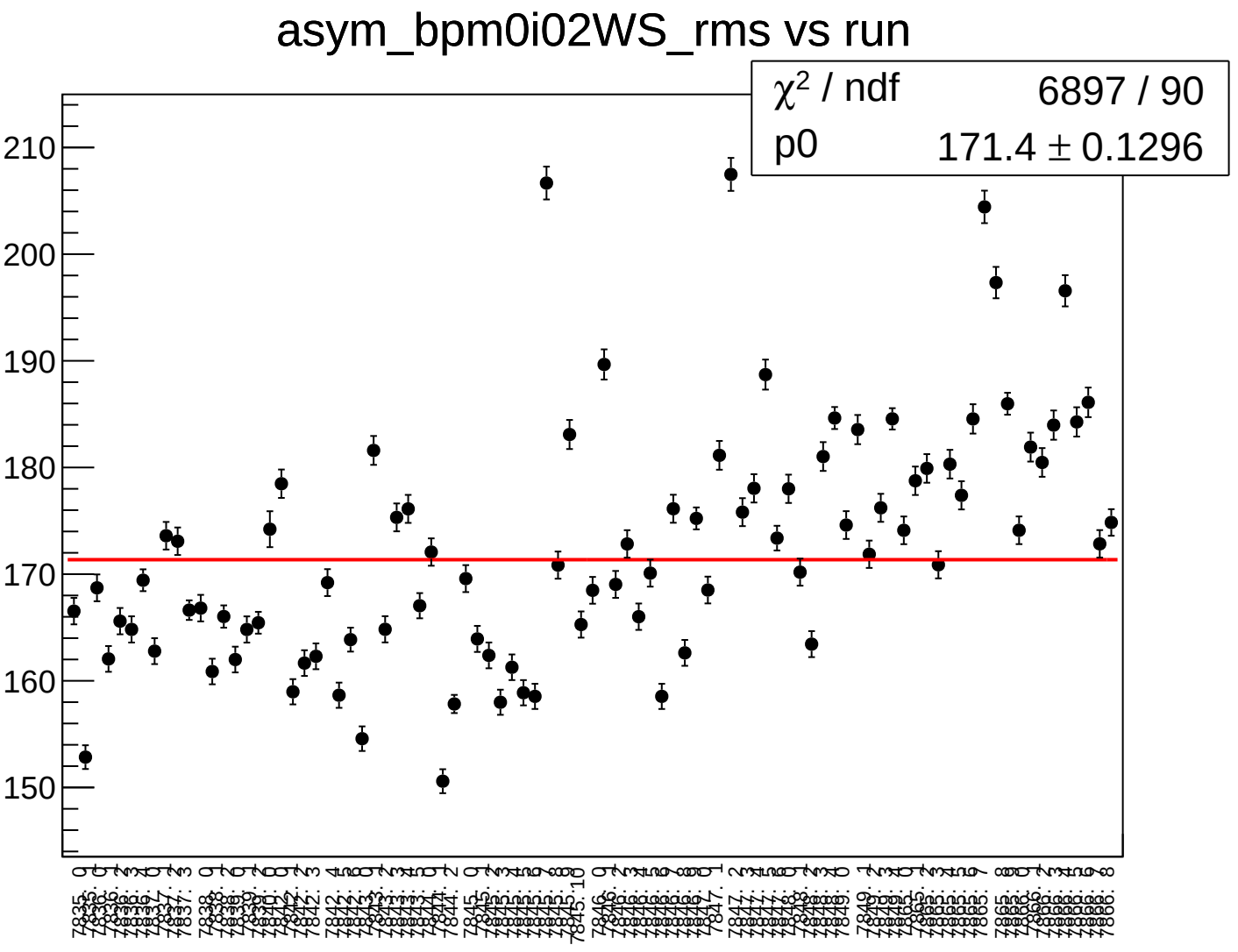

asym_bpm0r05WS_mean vs run
χ² / ndf 339.7 / 90
p0 −3306 ± 295
pull
Entries 91
Mean −262.1
Std Dev 0

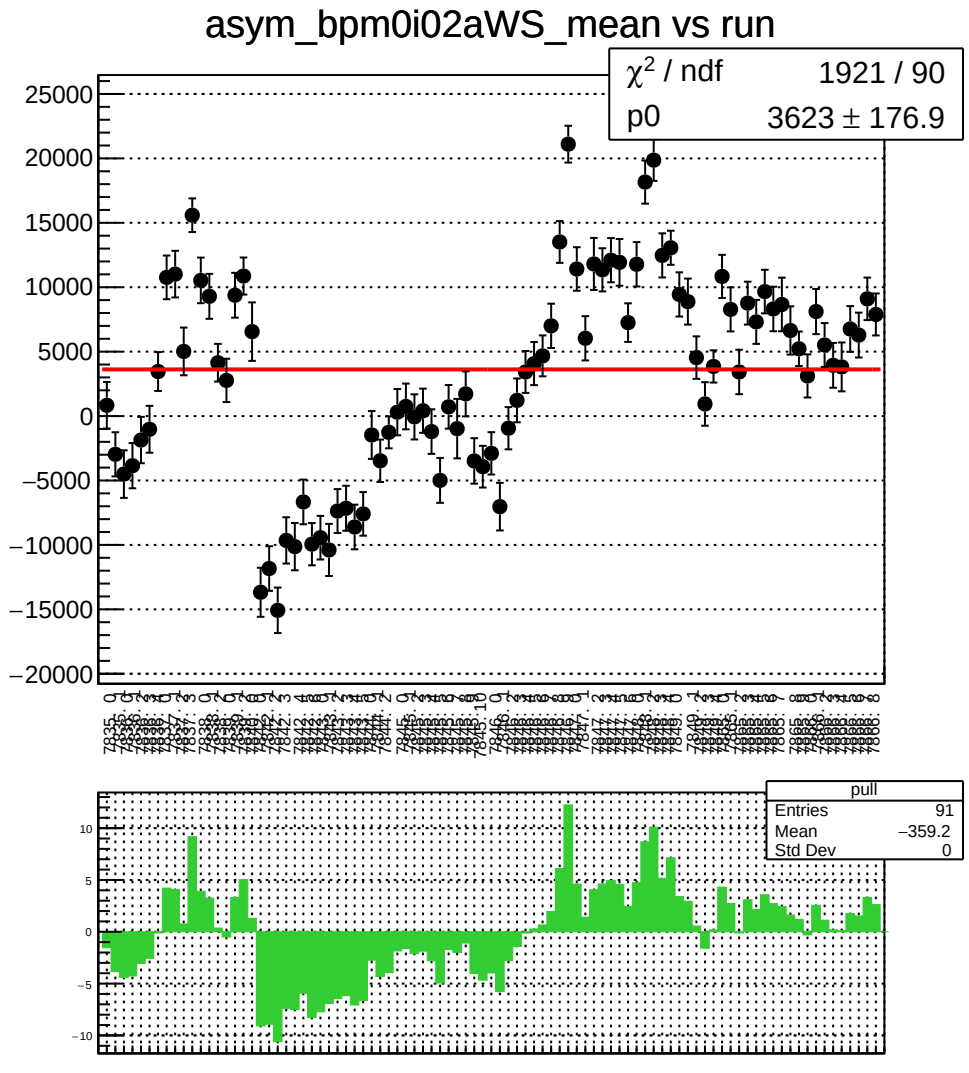

pull1D
Entries 91
Mean −0.04717
Std Dev 1.931

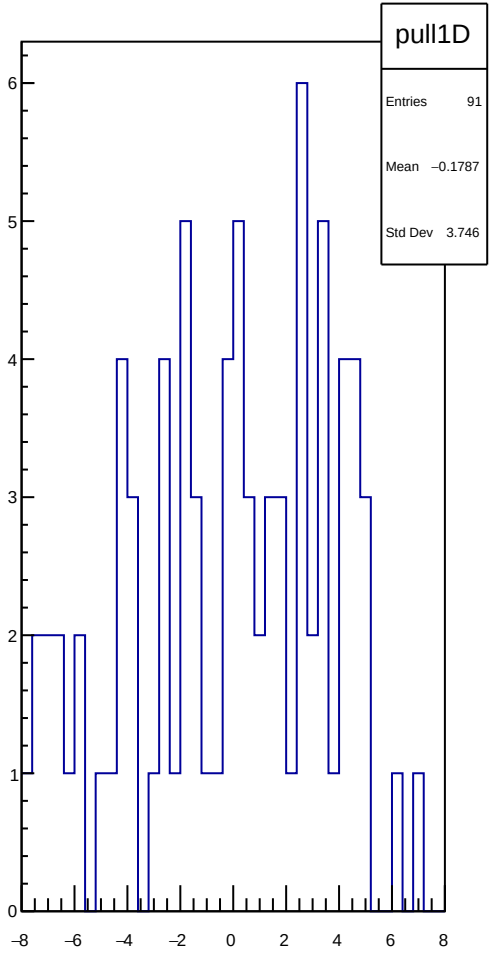

asym_bpm0r05WS_rms vs run
χ² / ndf 5124 / 90
p0 275.9 ± 0.2086
330
320
310
300
290
280
270
260
250

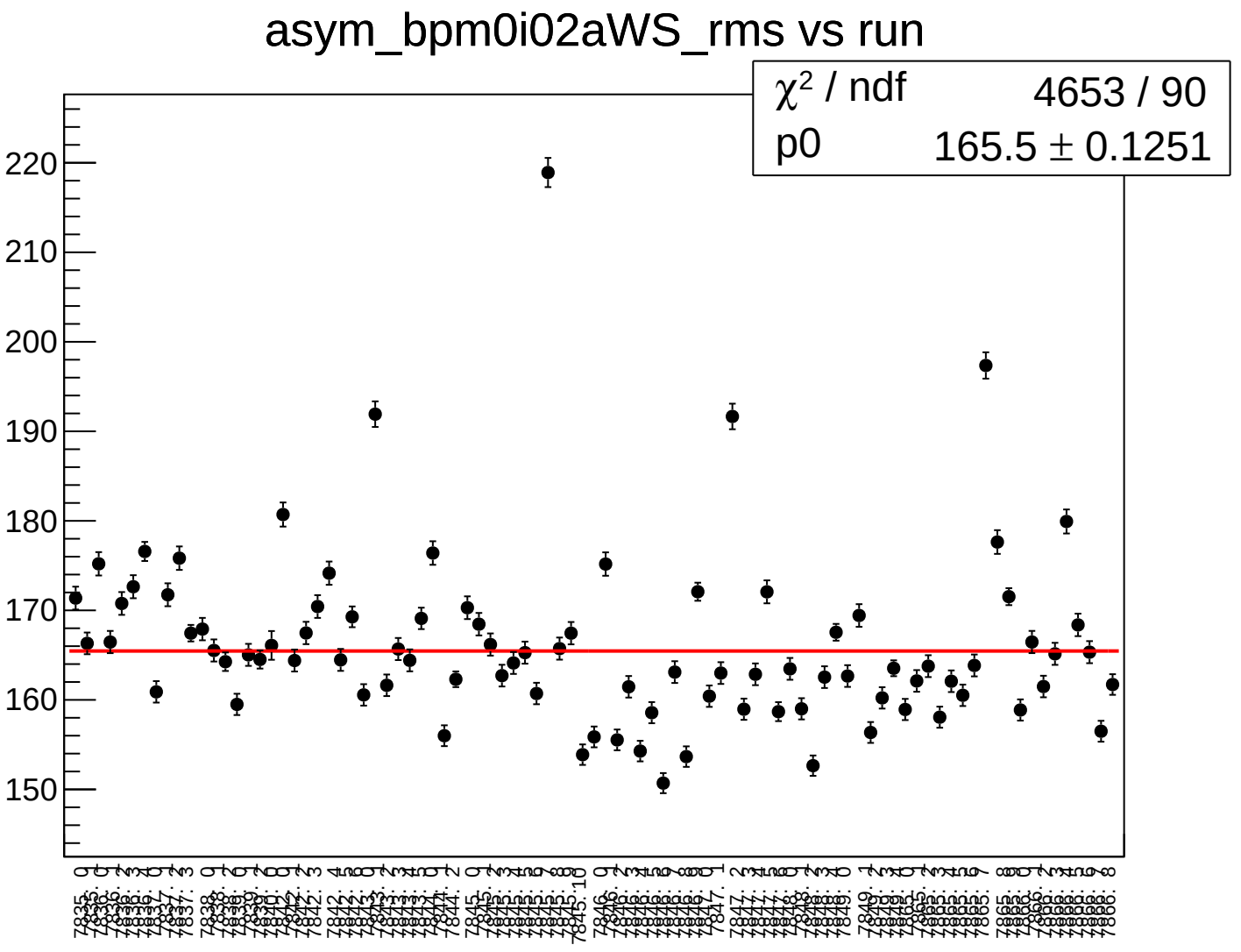

asym_bpm0i02WS_mean vs run
χ² / ndf 2834 / 90
p0 1301 ± 183.3
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 1608
Std Dev 0
10
5
0
−5
−10

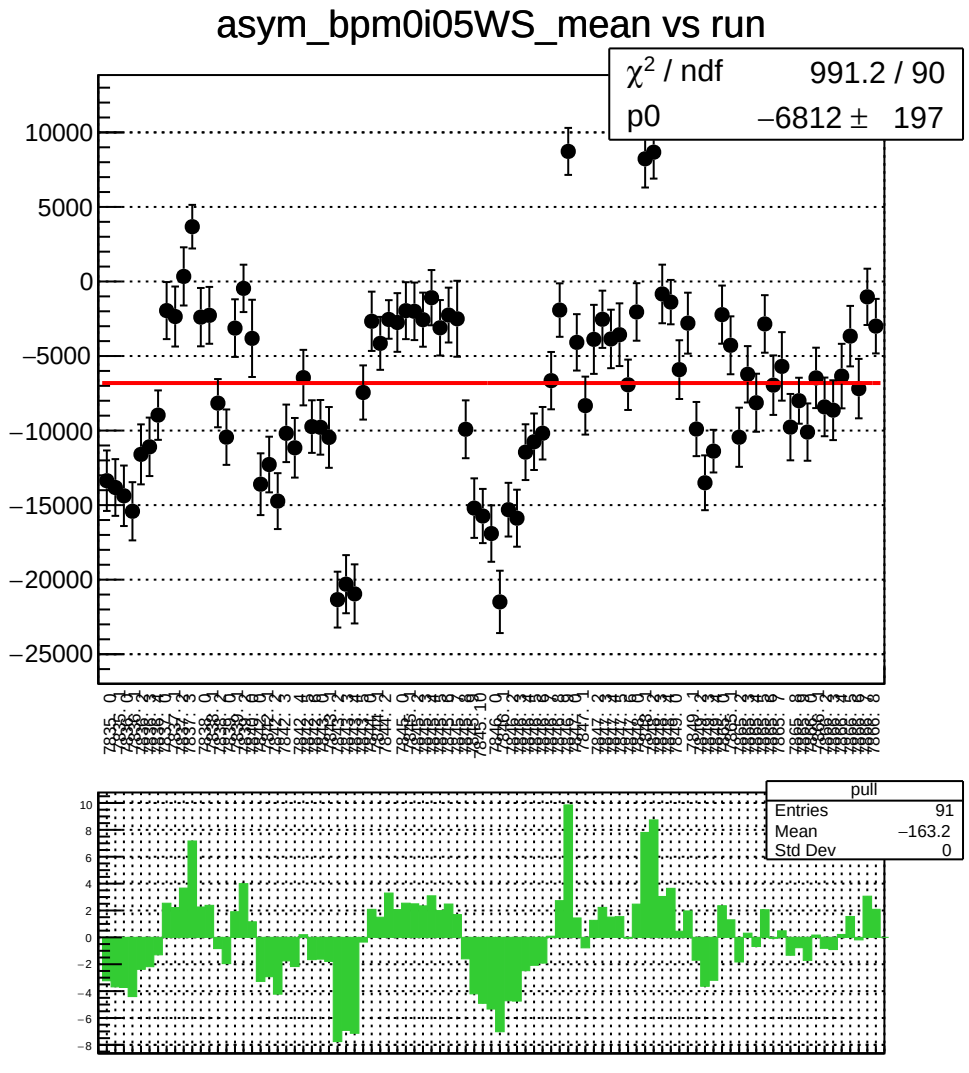

pull1D
Entries 91
Mean 0.5072
Std Dev 4.265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

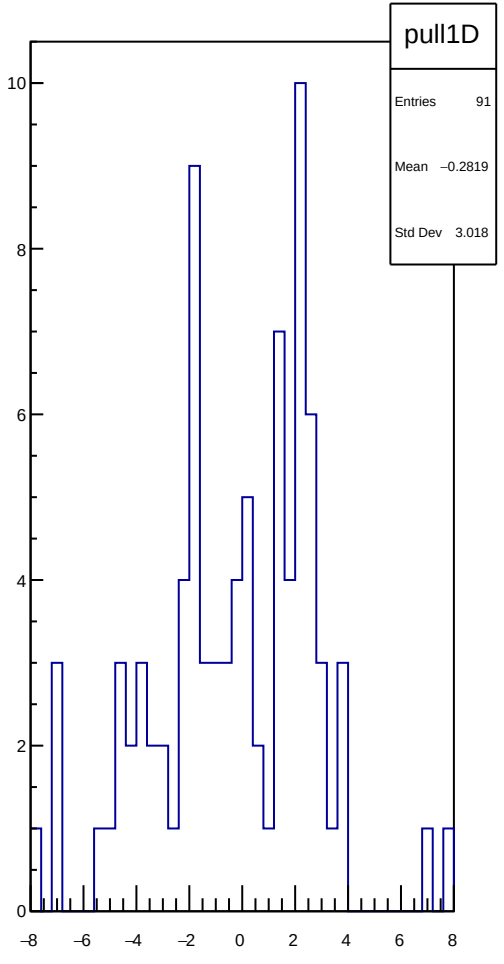

asym_bpm0i02WS_rms vs run
χ² / ndf 6897 / 90
p0 171.4 ± 0.1296
210
200
190
180
170
160
150

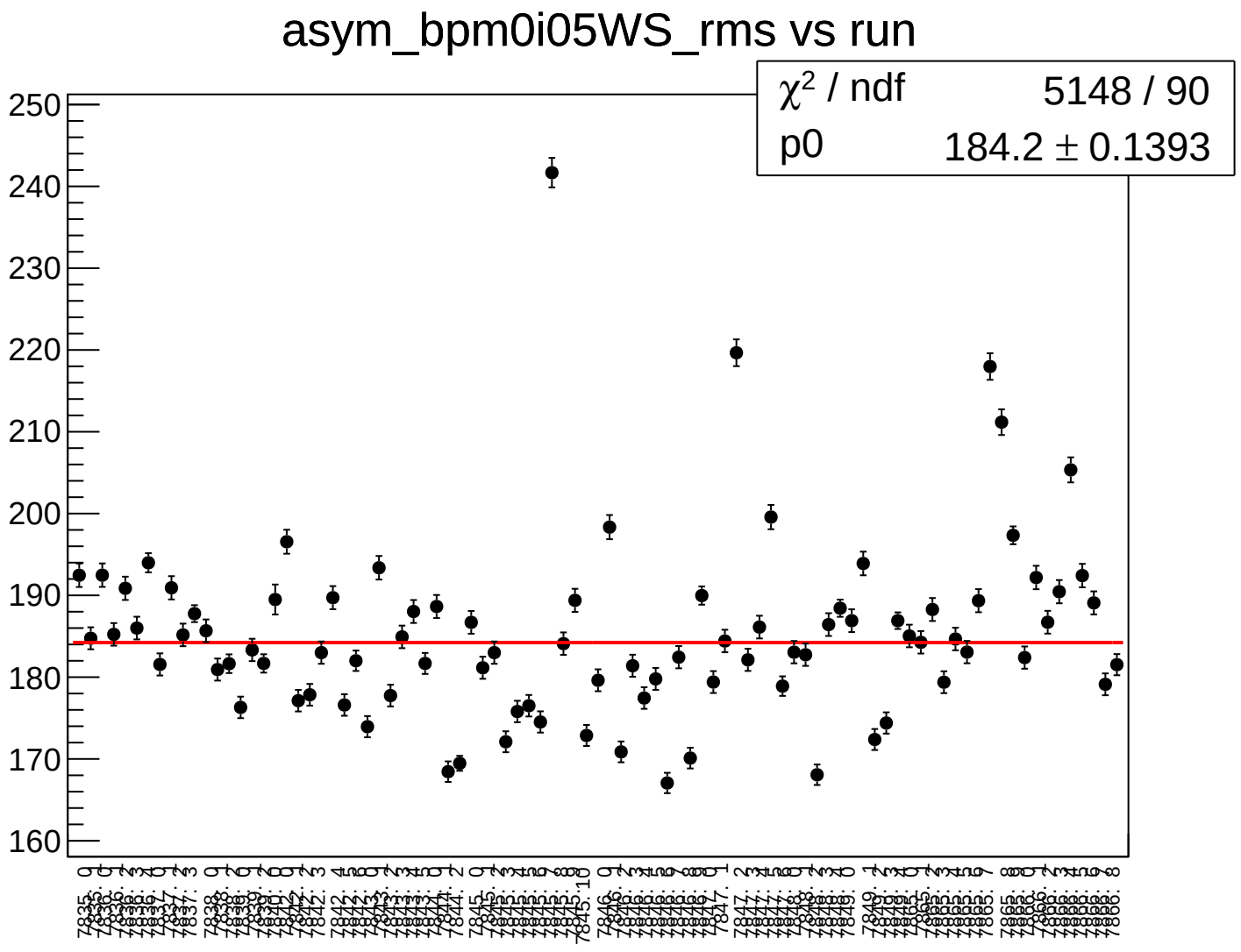

asym_bpm0i02aWS_mean vs run
χ² / ndf 1921 / 90
p0 3623 ± 176.9
pull
Entries 91
Mean −359.2
Std Dev 0

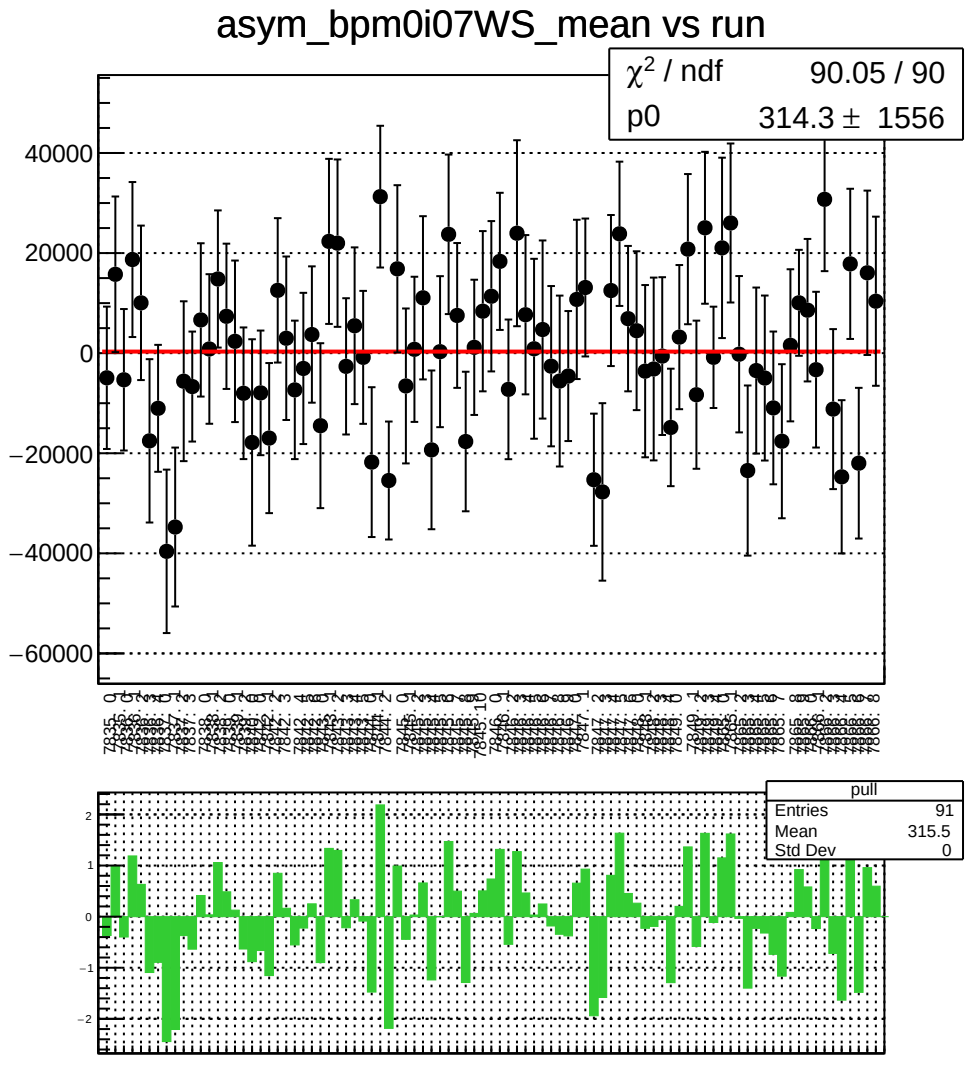

pull1D
Entries 91
Mean −0.1787
Std Dev 3.746

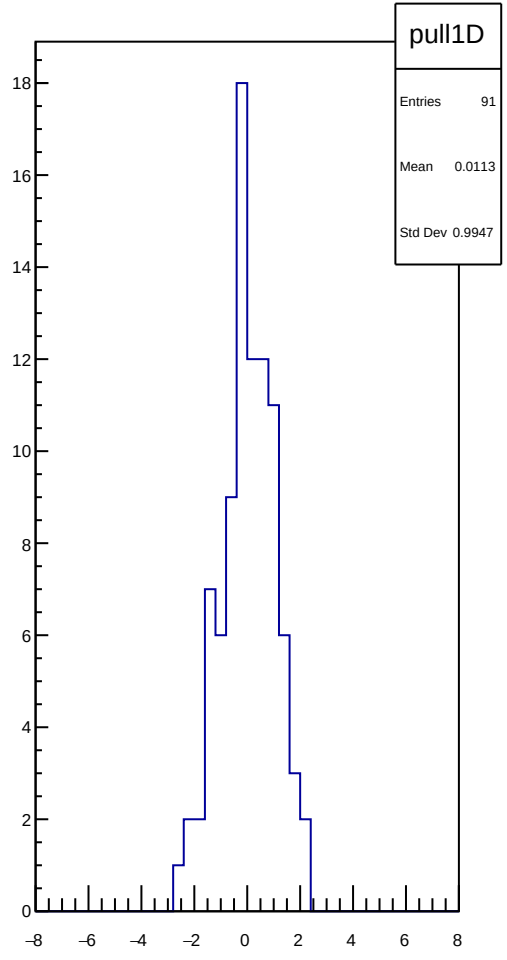

asym_bpm0i02aWS_rms vs run
χ² / ndf 4653 / 90
p0 165.5 ± 0.1251
220
210
200
190
180
170
160
150

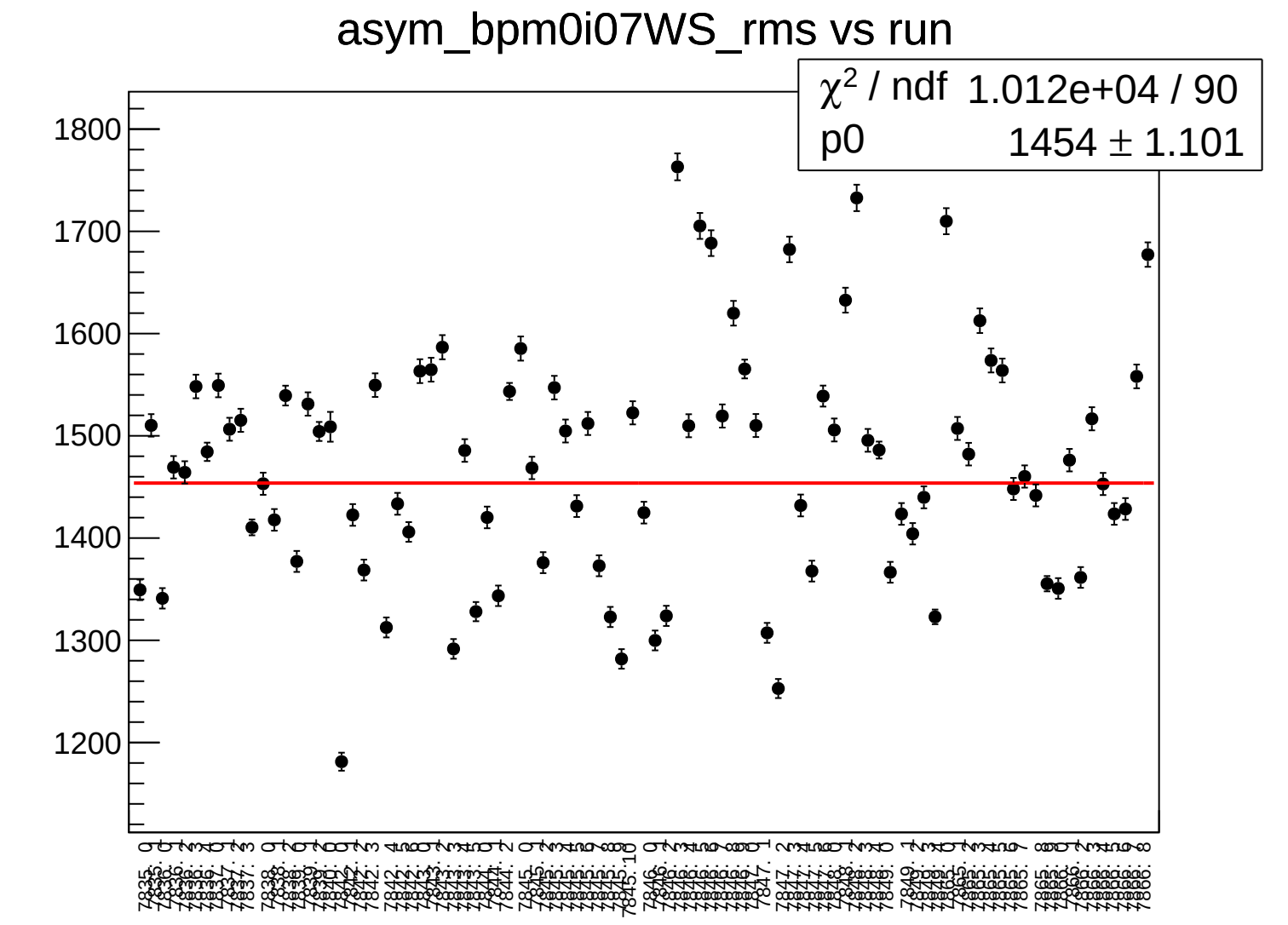

asym_bpm0i05WS_mean vs run
χ² / ndf 991.2 / 90
p0 −6812 ± 197
pull
Entries 91
Mean −163.2
Std Dev 0

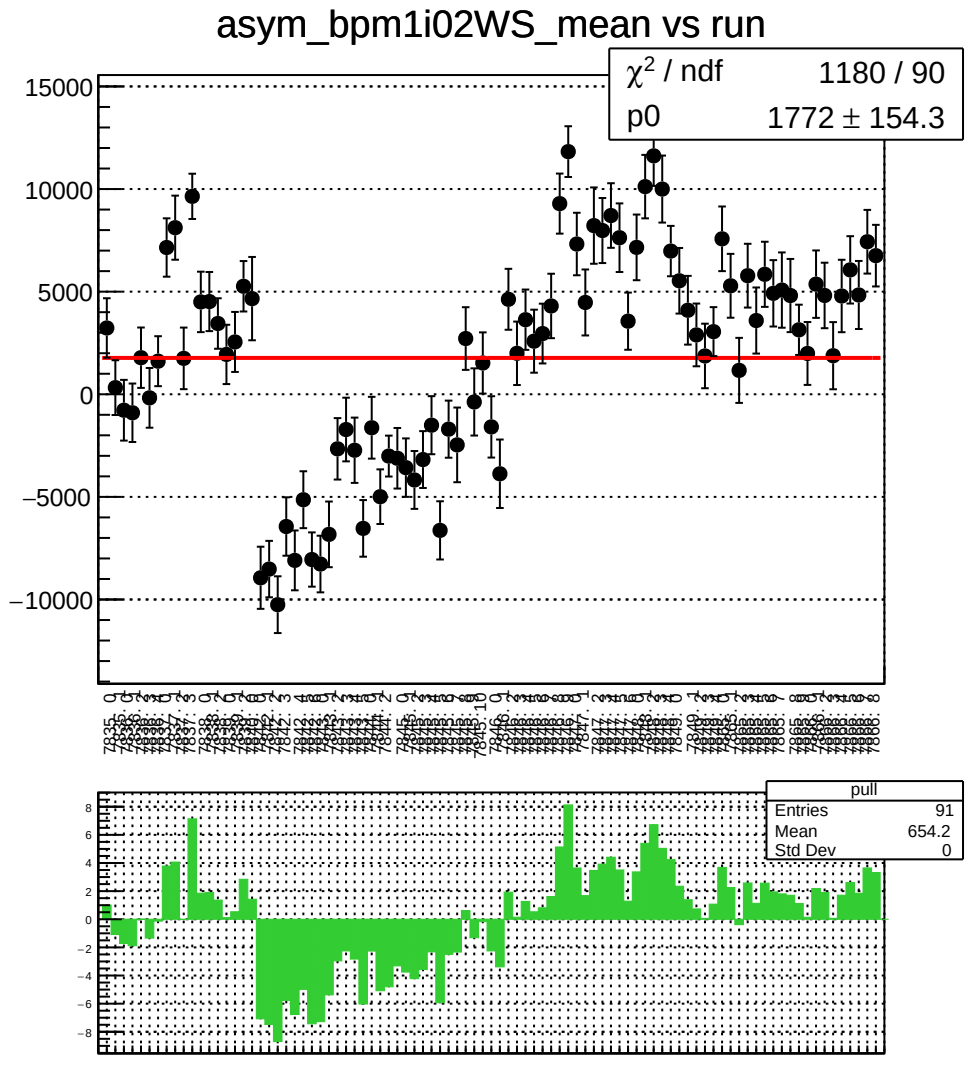

pull1D
Entries 91
Mean −0.2819
Std Dev 3.018

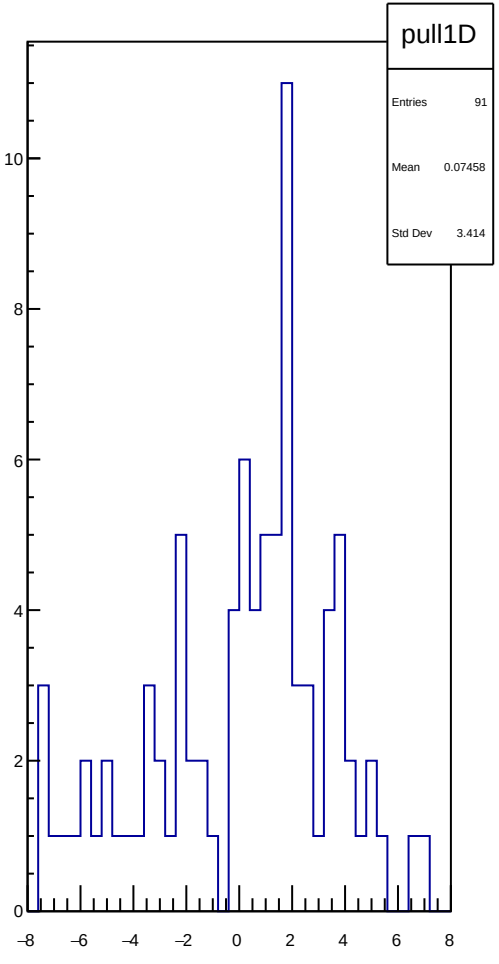

asym_bpm0i05WS_rms vs run
χ² / ndf 5148 / 90
p0 184.2 ± 0.1393
250
240
230
220
210
200
190
180
170
160

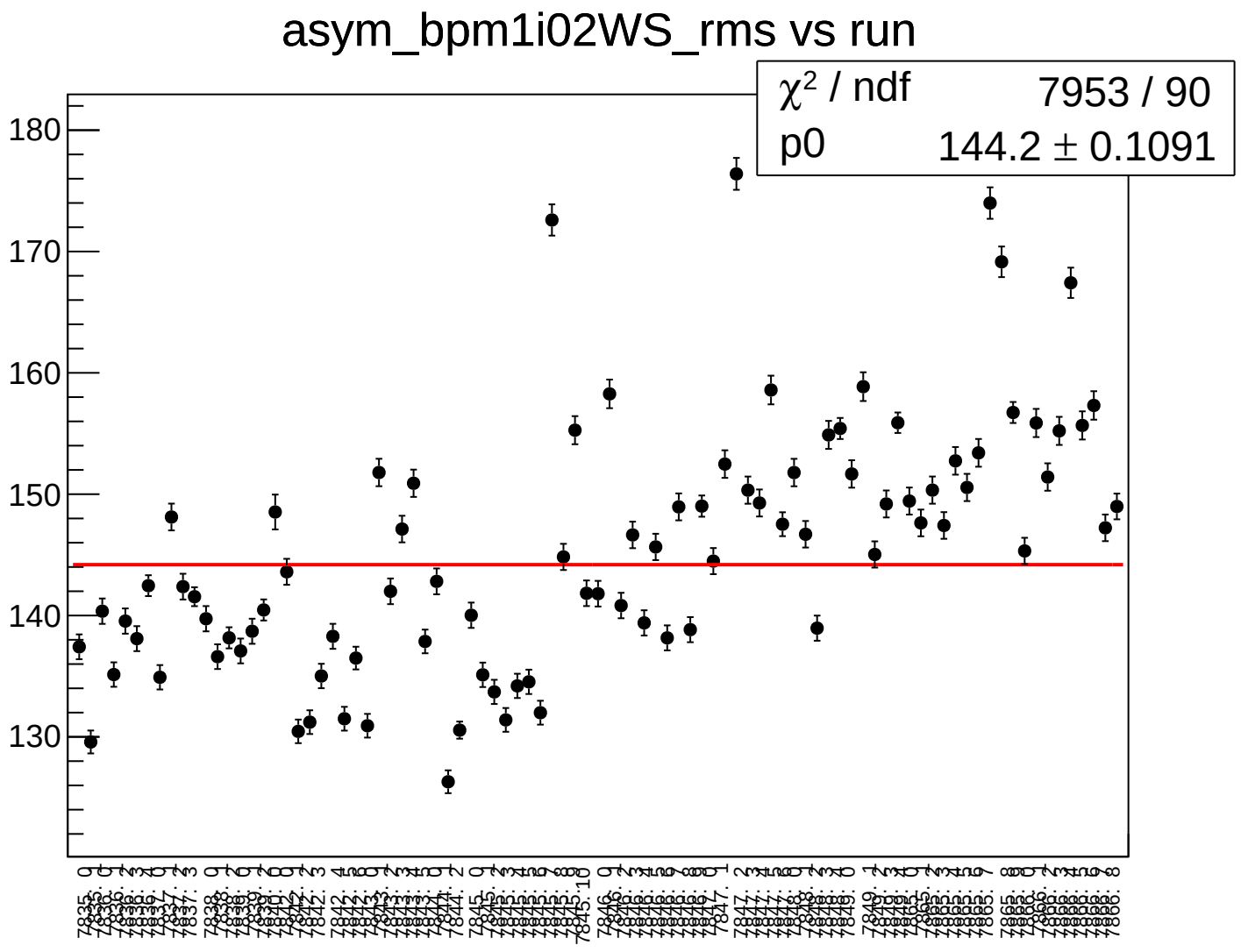

asym_bpm0i07WS_mean vs run
χ² / ndf 90.05 / 90
p0 314.3 ± 1556
pull
Entries 91
Mean 315.5
Std Dev 0

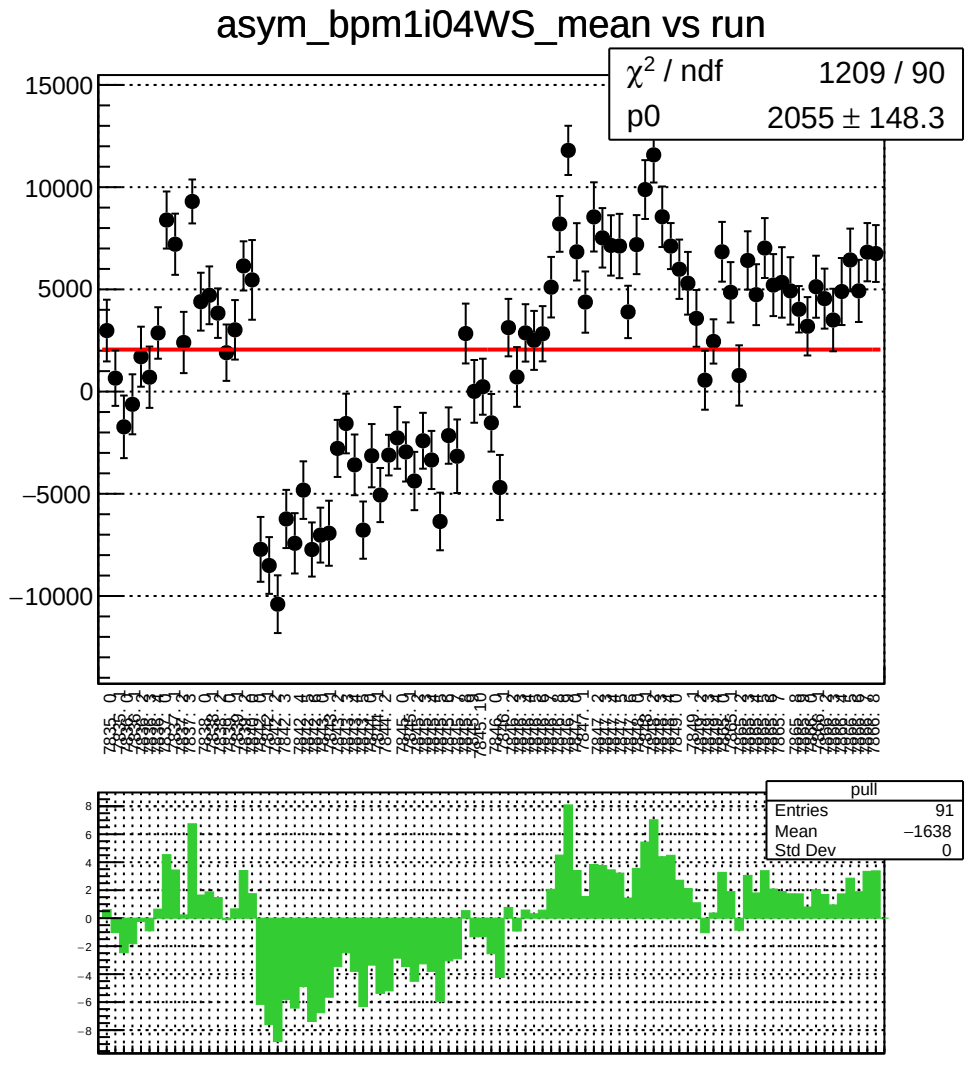

pull1D
Entries 91
Mean 0.0113
Std Dev 0.9947

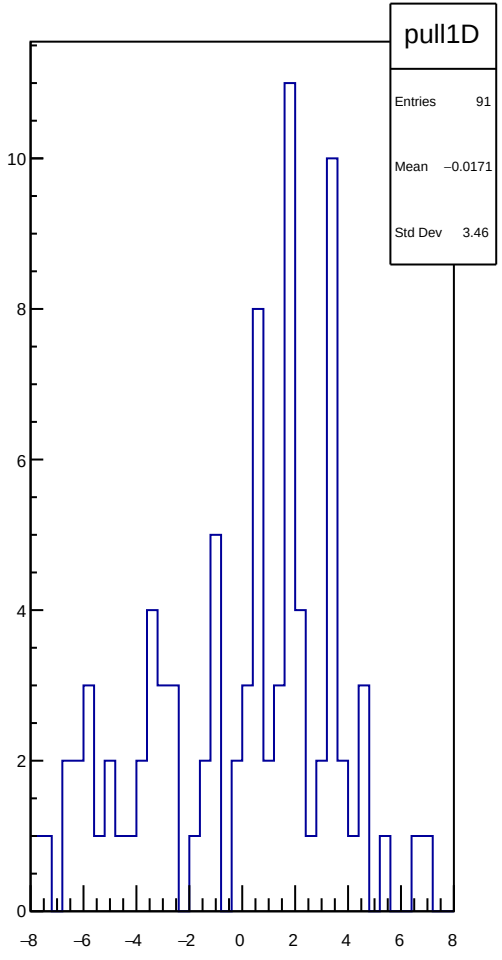

asym_bpm0i07WS_rms vs run
χ² / ndf 1.012e+04 / 90
p0 1454 ± 1.101
1800
1700
1600
1500
1400
1300
1200

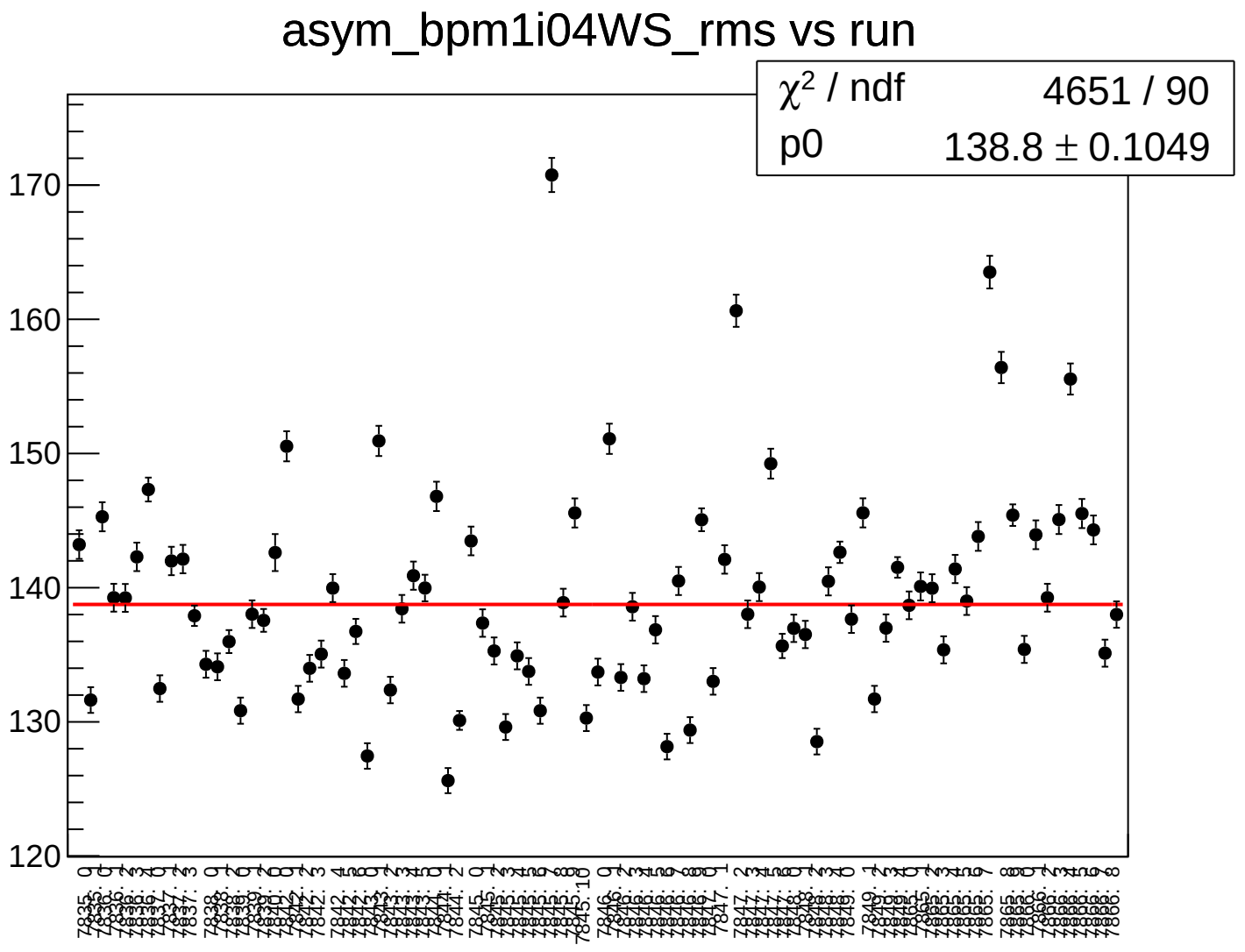

asym_bpm1i02WS_mean vs run
χ² / ndf 1180 / 90
p0 1772 ± 154.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 654.2
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

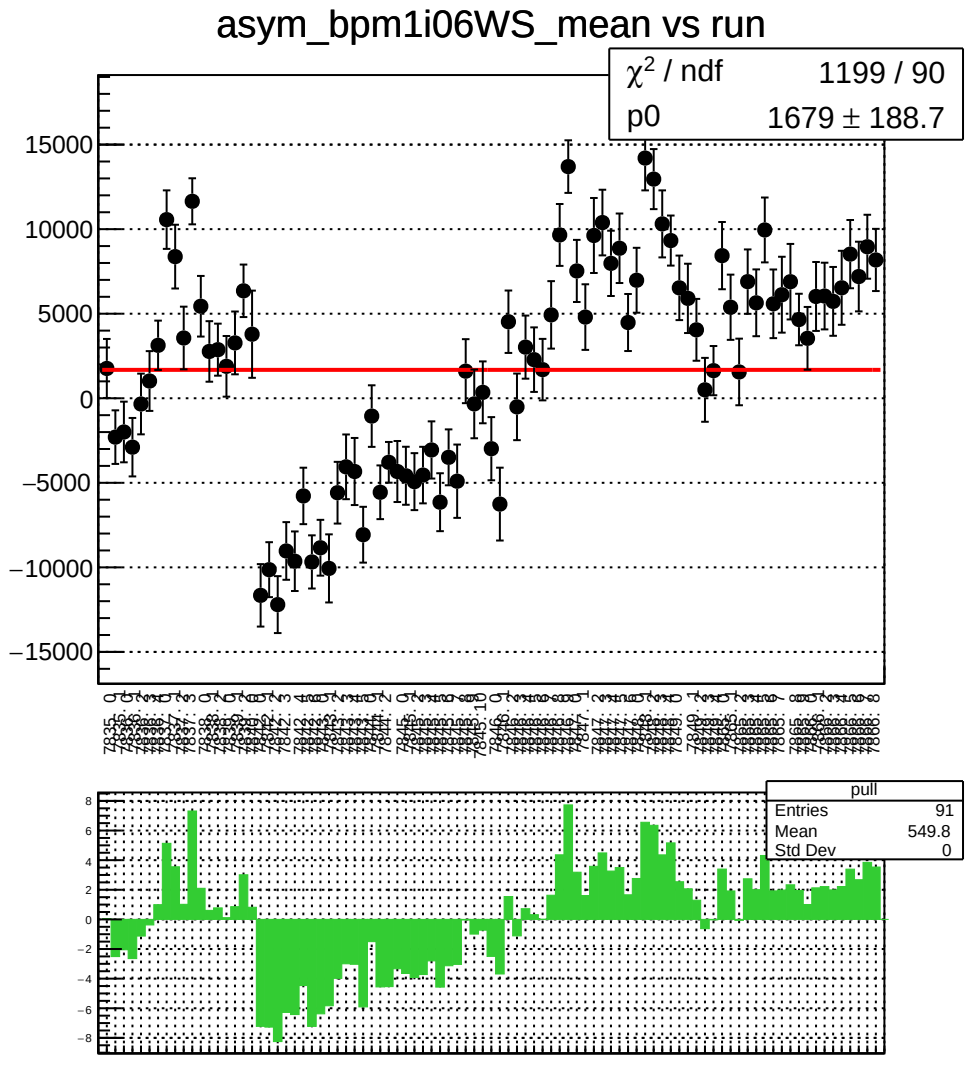

pull1D
Entries 91
Mean 0.07458
Std Dev 3.414
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

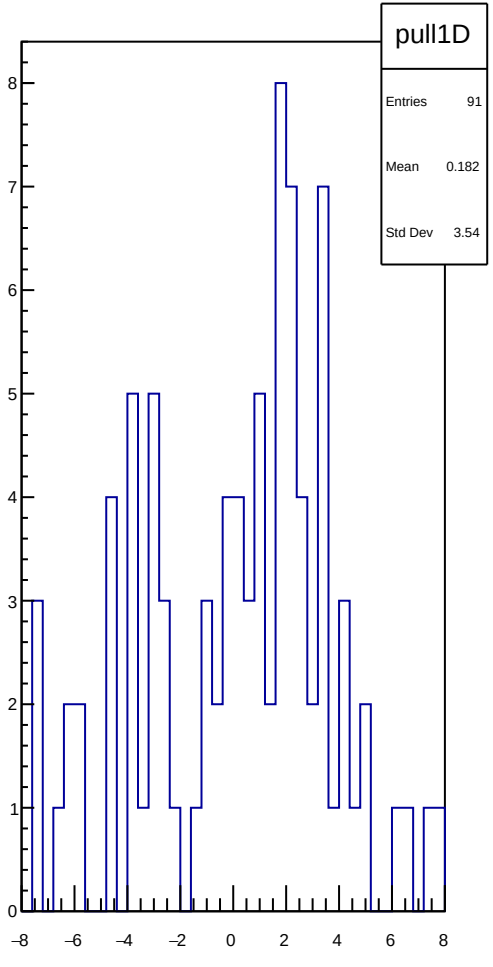

asym_bpm1i02WS_rms vs run
χ² / ndf 7953 / 90
p0 144.2 ± 0.1091
180
170
160
150
140
130

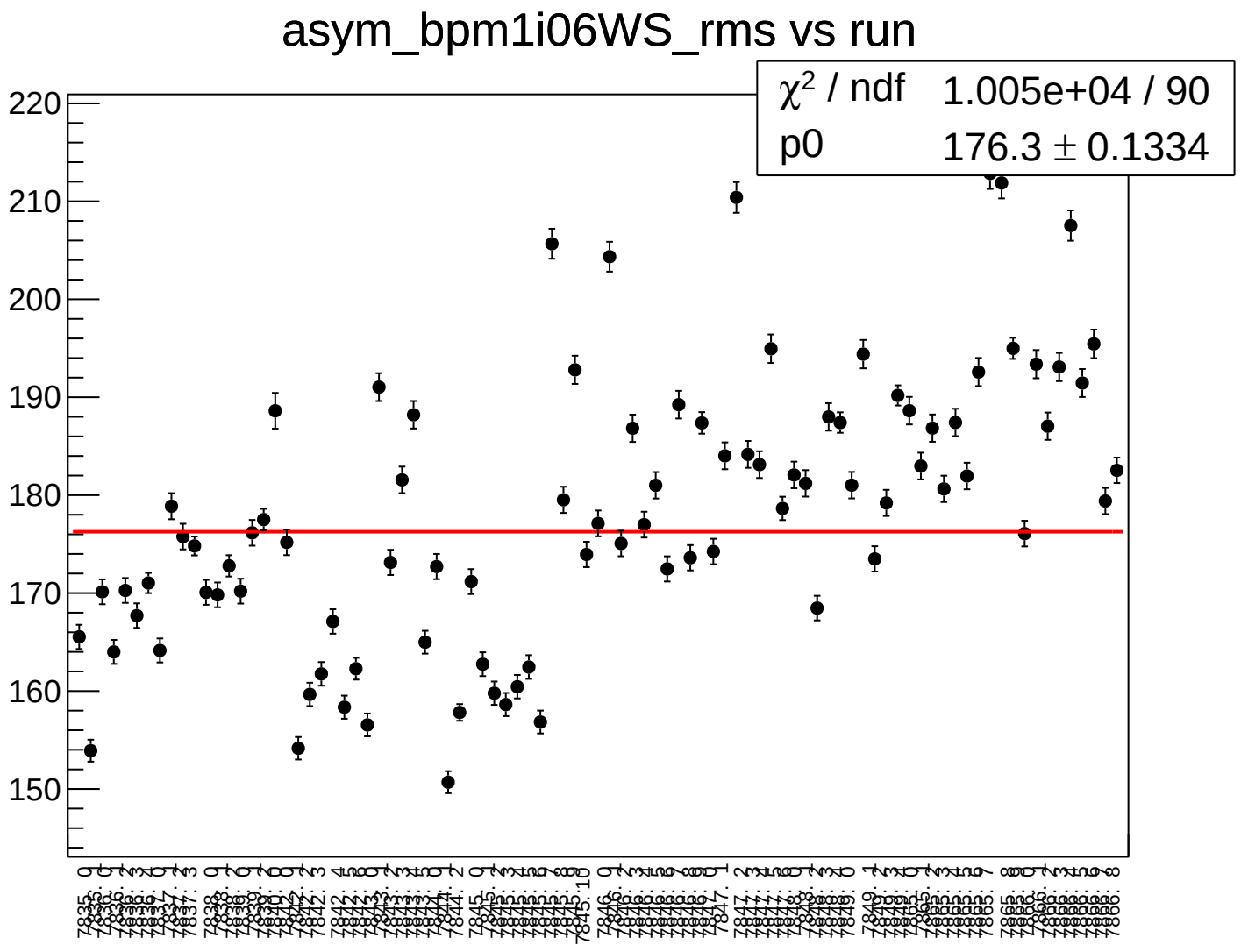

asym_bpm1i04WS_mean vs run
χ² / ndf 1209 / 90
p0 2055 ± 148.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −1638
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

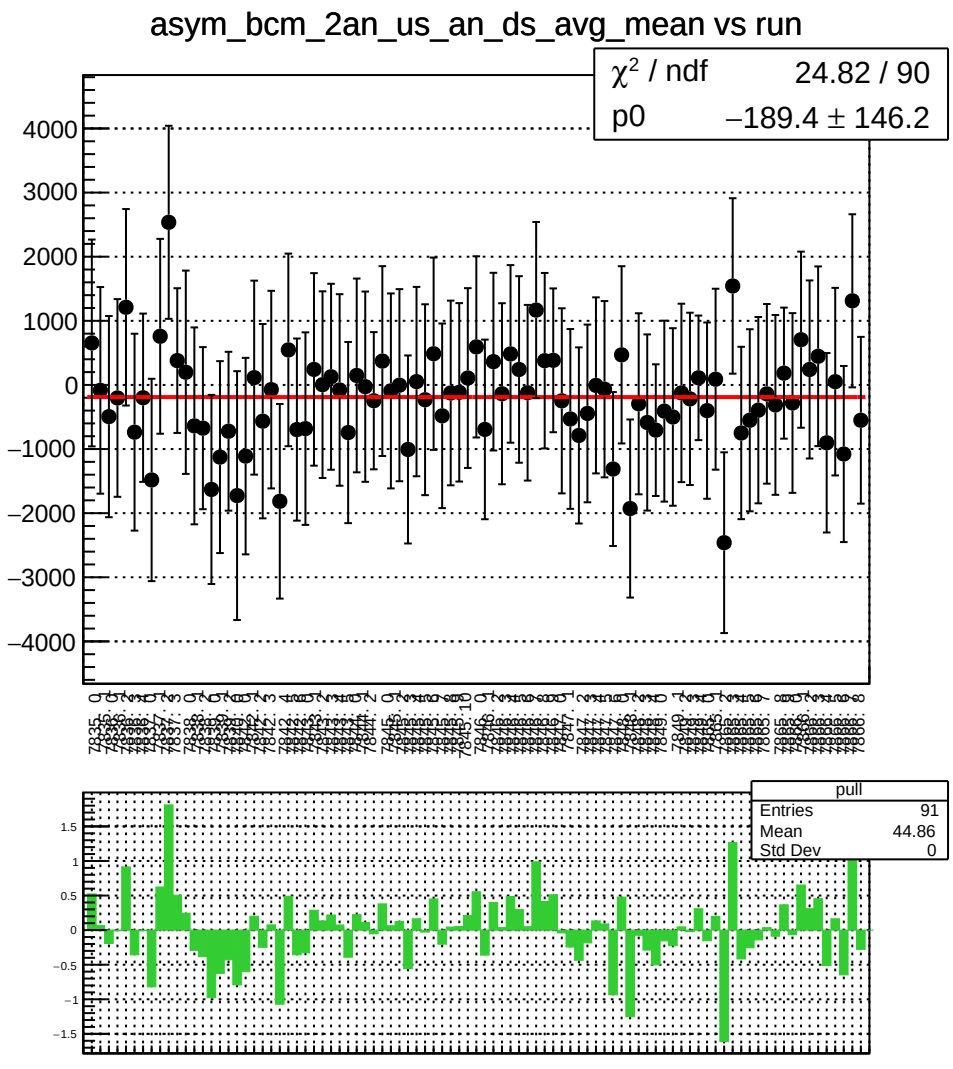

pull1D
Entries 91
Mean −0.0171
Std Dev 3.46
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

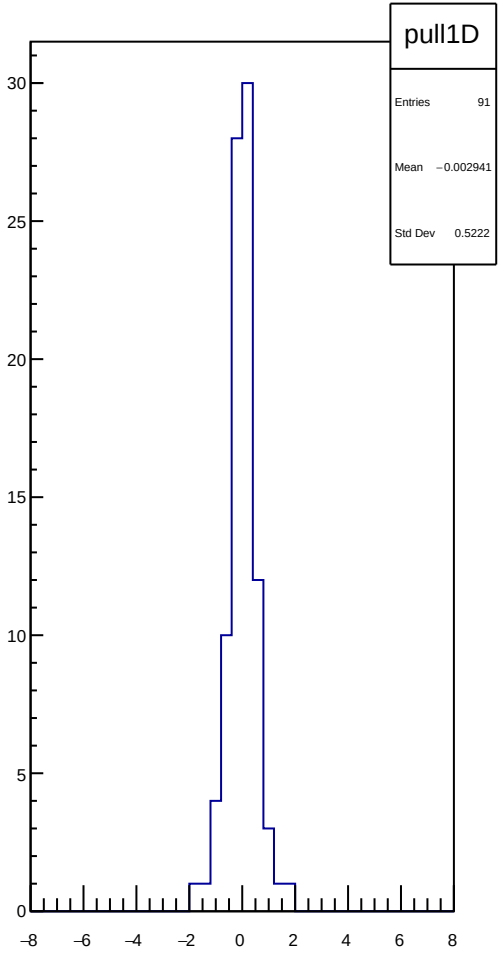

asym_bpm1i04WS_rms vs run
χ² / ndf 4651 / 90
p0 138.8 ± 0.1049
170
160
150
140
130
120

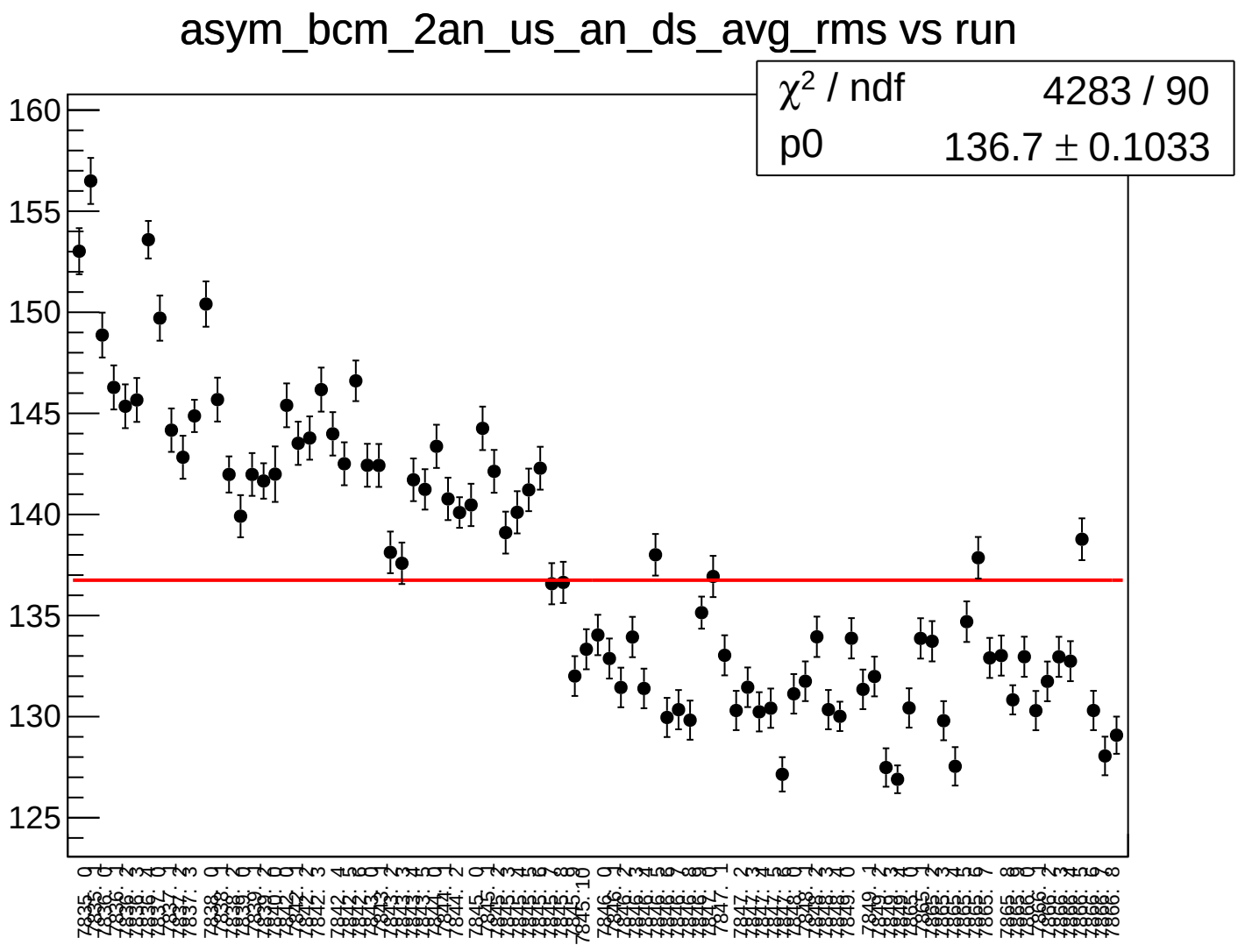

asym_bpm1i06WS_mean vs run
χ² / ndf 1199 / 90
p0 1679 ± 188.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 549.8
Std Dev 0

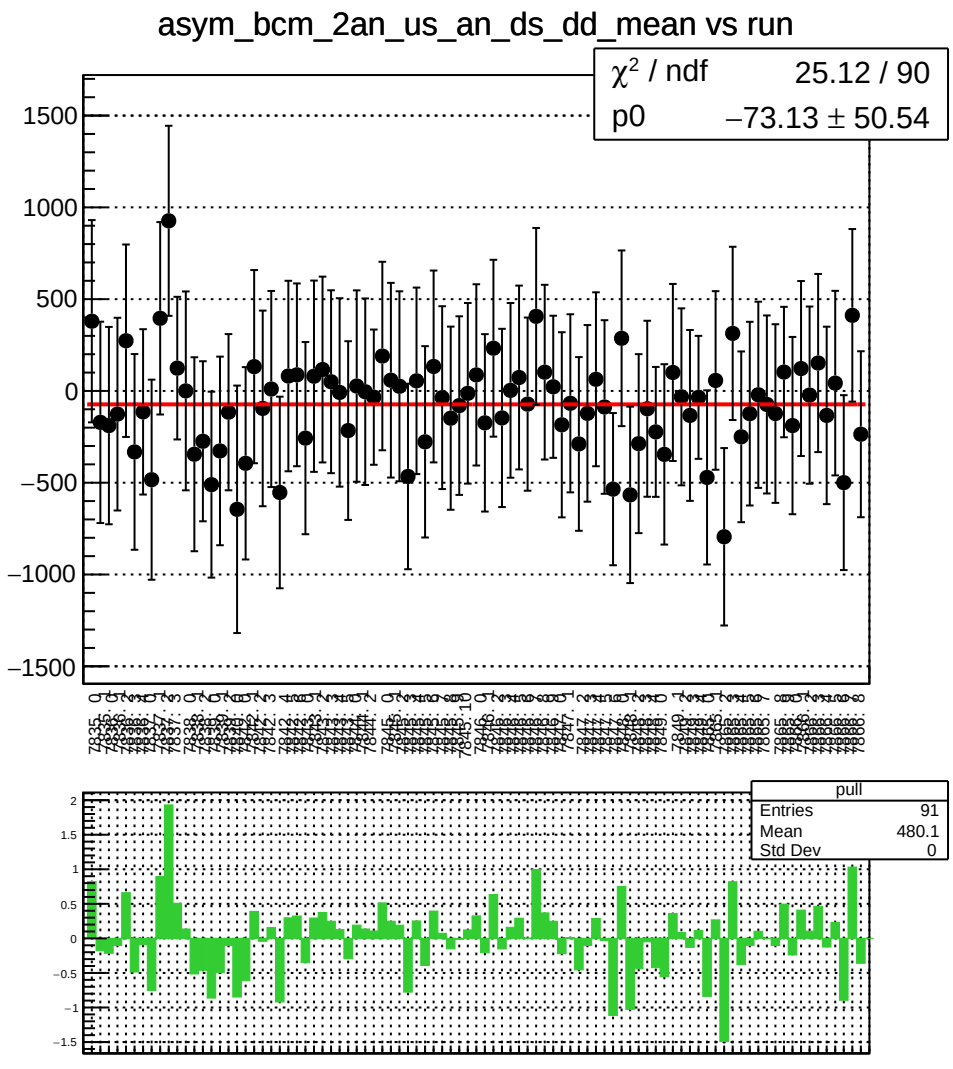

pull1D
Entries 91
Mean 0.182
Std Dev 3.54

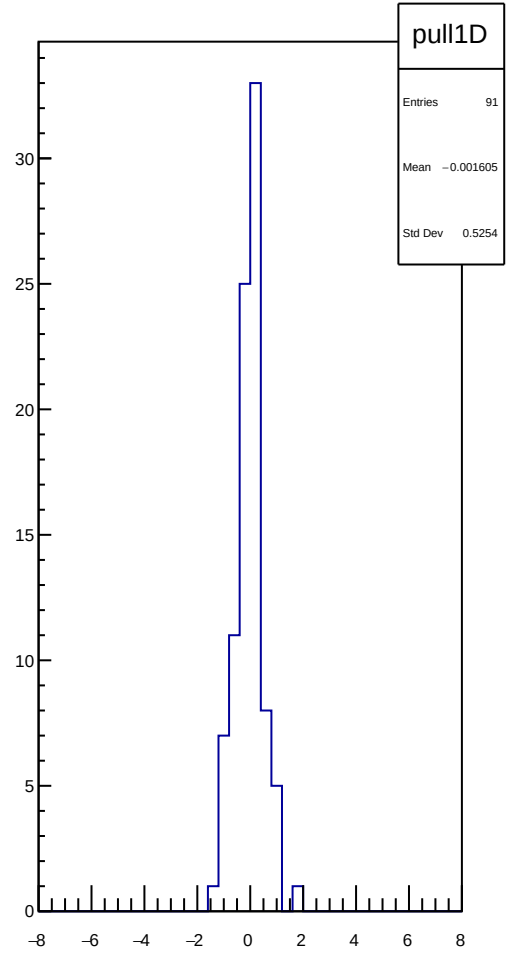

asym_bpm1i06WS_rms vs run
χ^2 / ndf 1.005e+04 / 90
p0 176.3 ± 0.1334
220
210
200
190
180
170
160
150

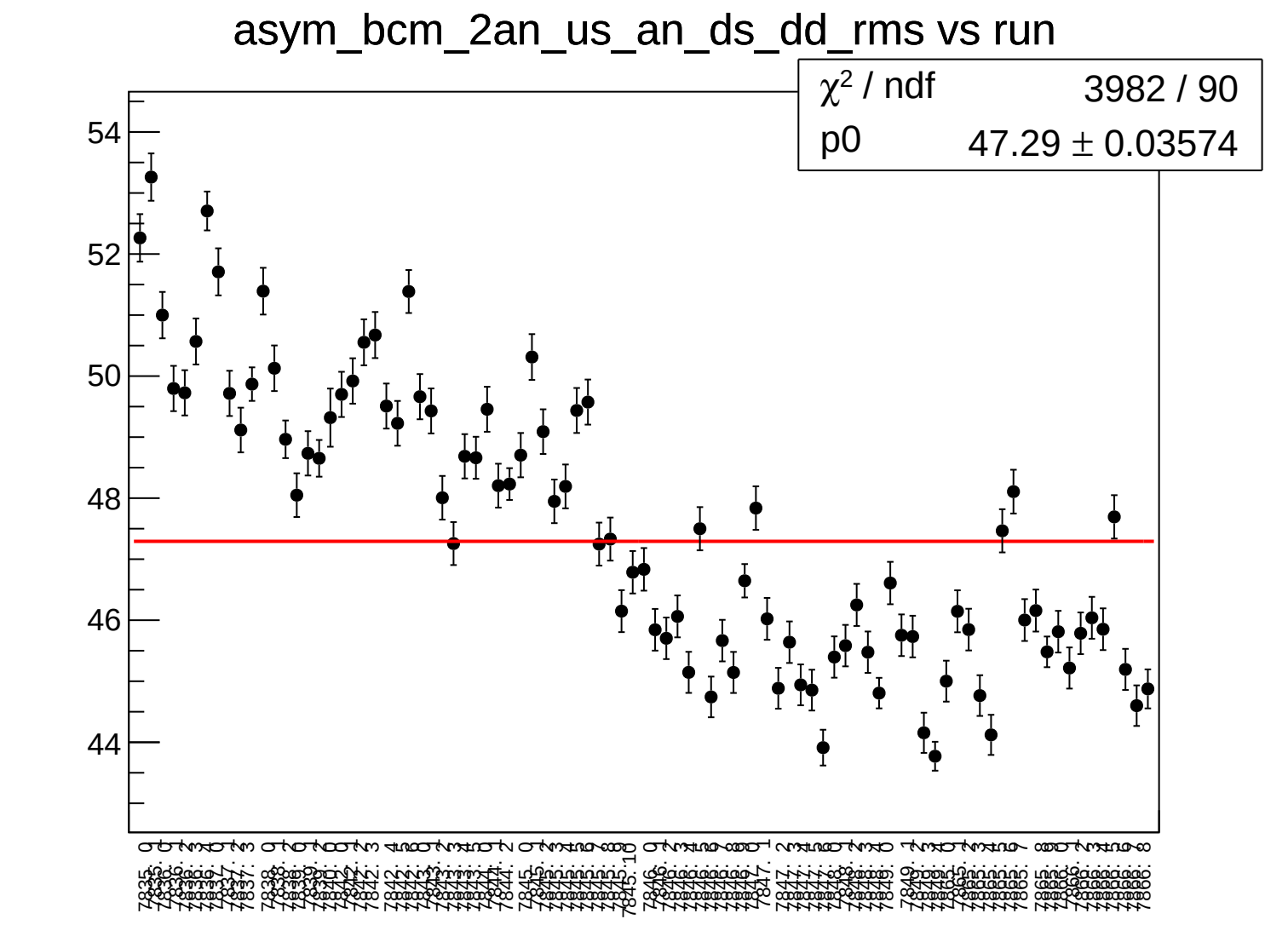

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 24.82 / 90
p0 −189.4 ± 146.2
pull
Entries 91
Mean 44.86
Std Dev 0

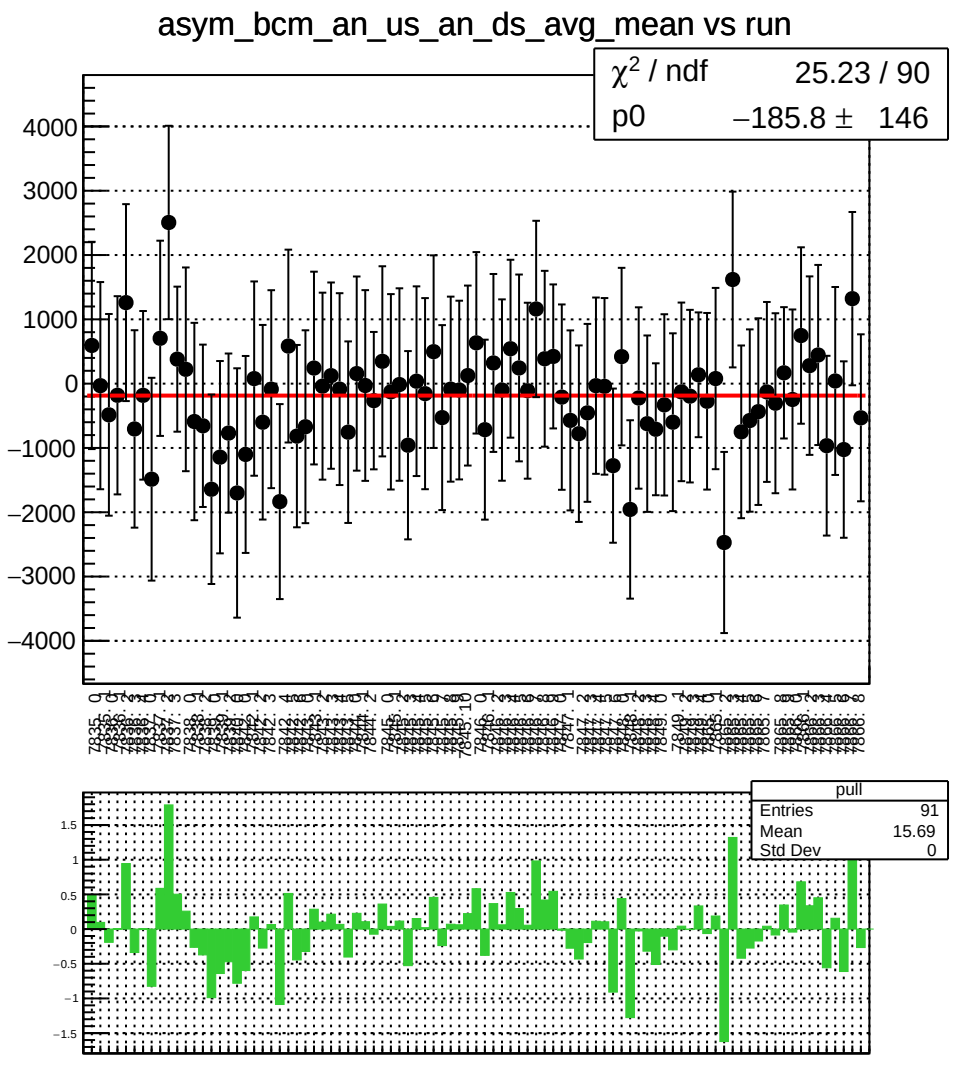

pull1D
Entries 91
Mean −0.002941
Std Dev 0.5222

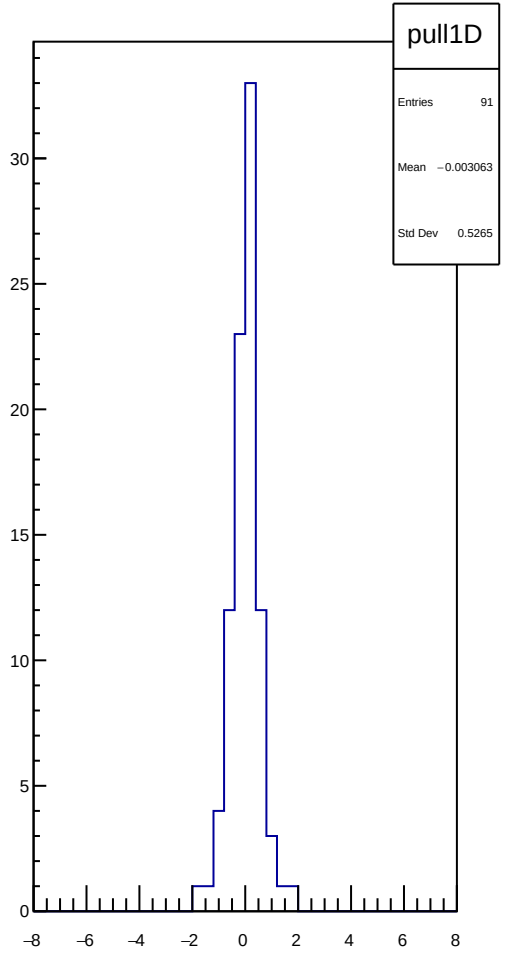

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 4283 / 90
p0 136.7 ± 0.1033
160
155
150
145
140
135
130
125

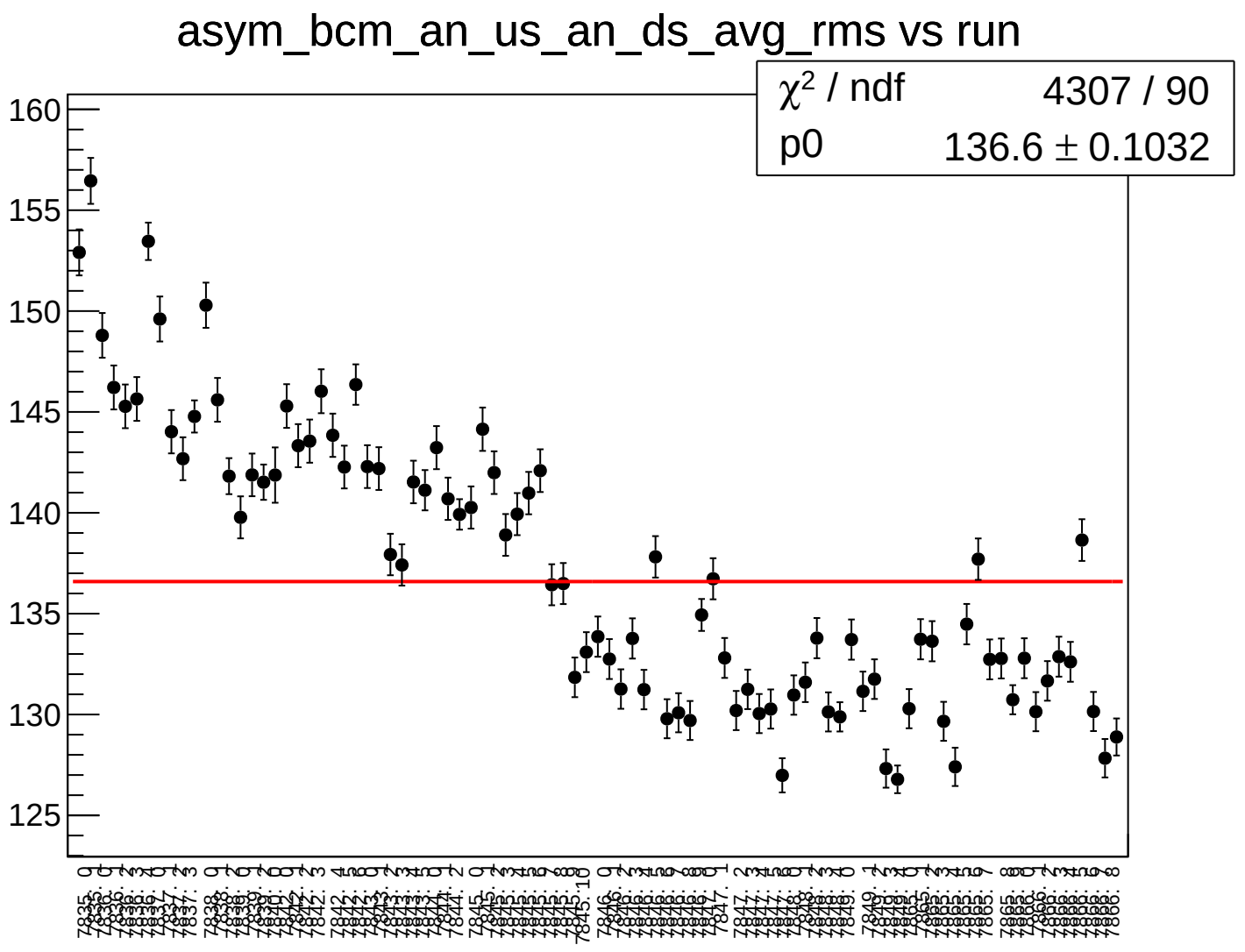

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 25.12 / 90
p0 −73.13 ± 50.54
pull
Entries 91
Mean 480.1
Std Dev 0

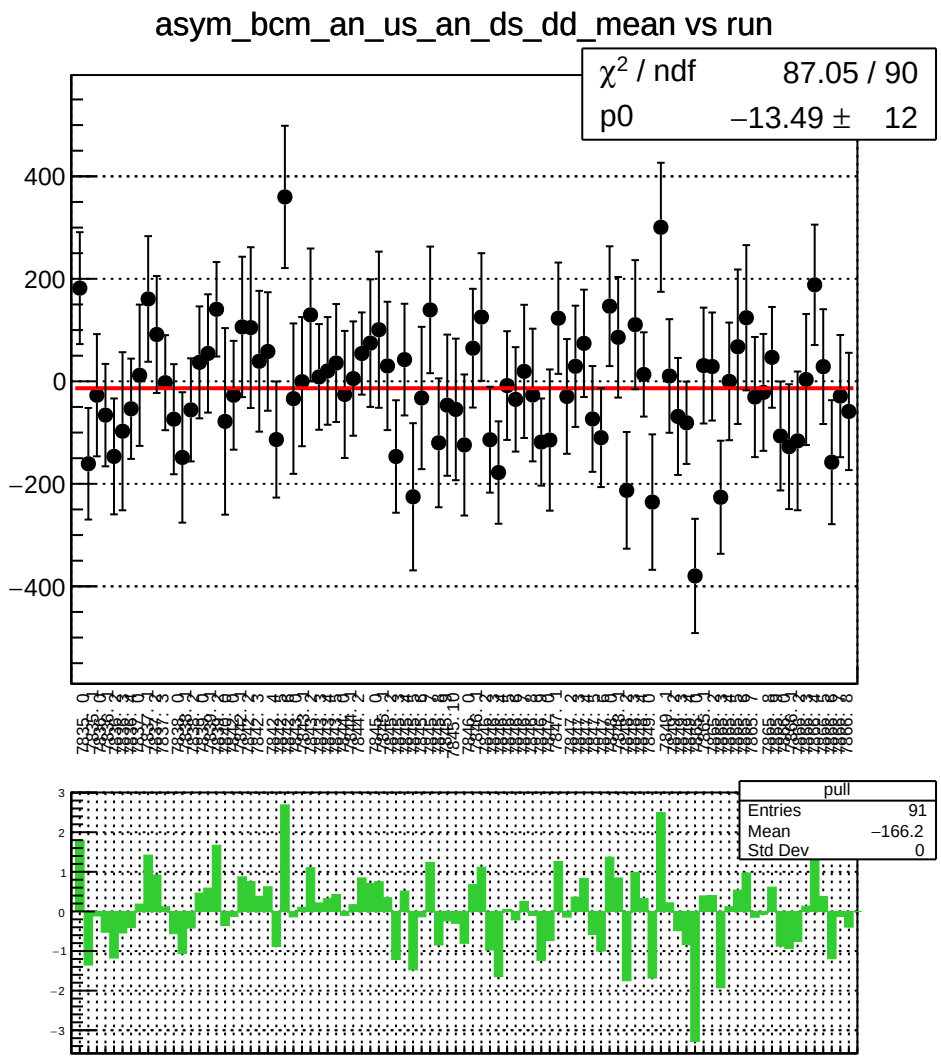

pull1D
Entries 91
Mean −0.001605
Std Dev 0.5254

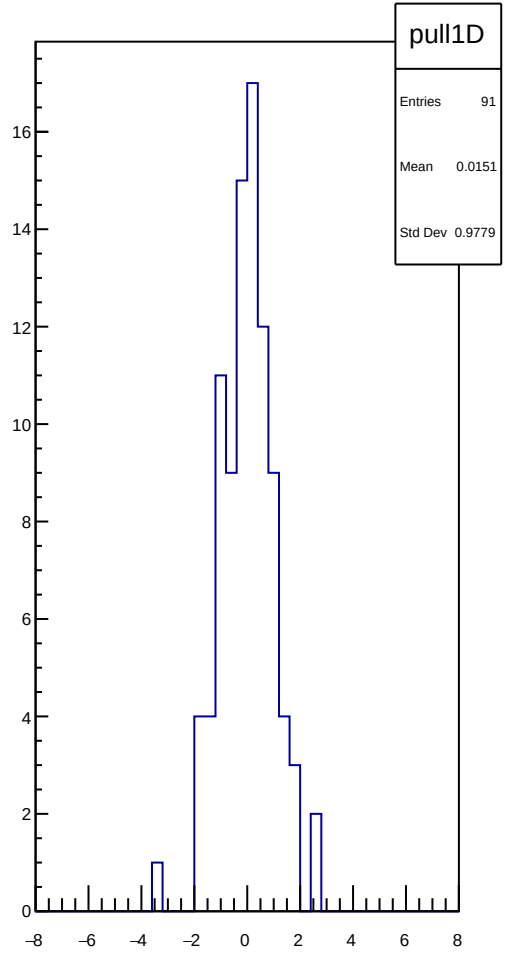

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3982 / 90
p0 47.29 ± 0.03574
54
52
50
48
46
44

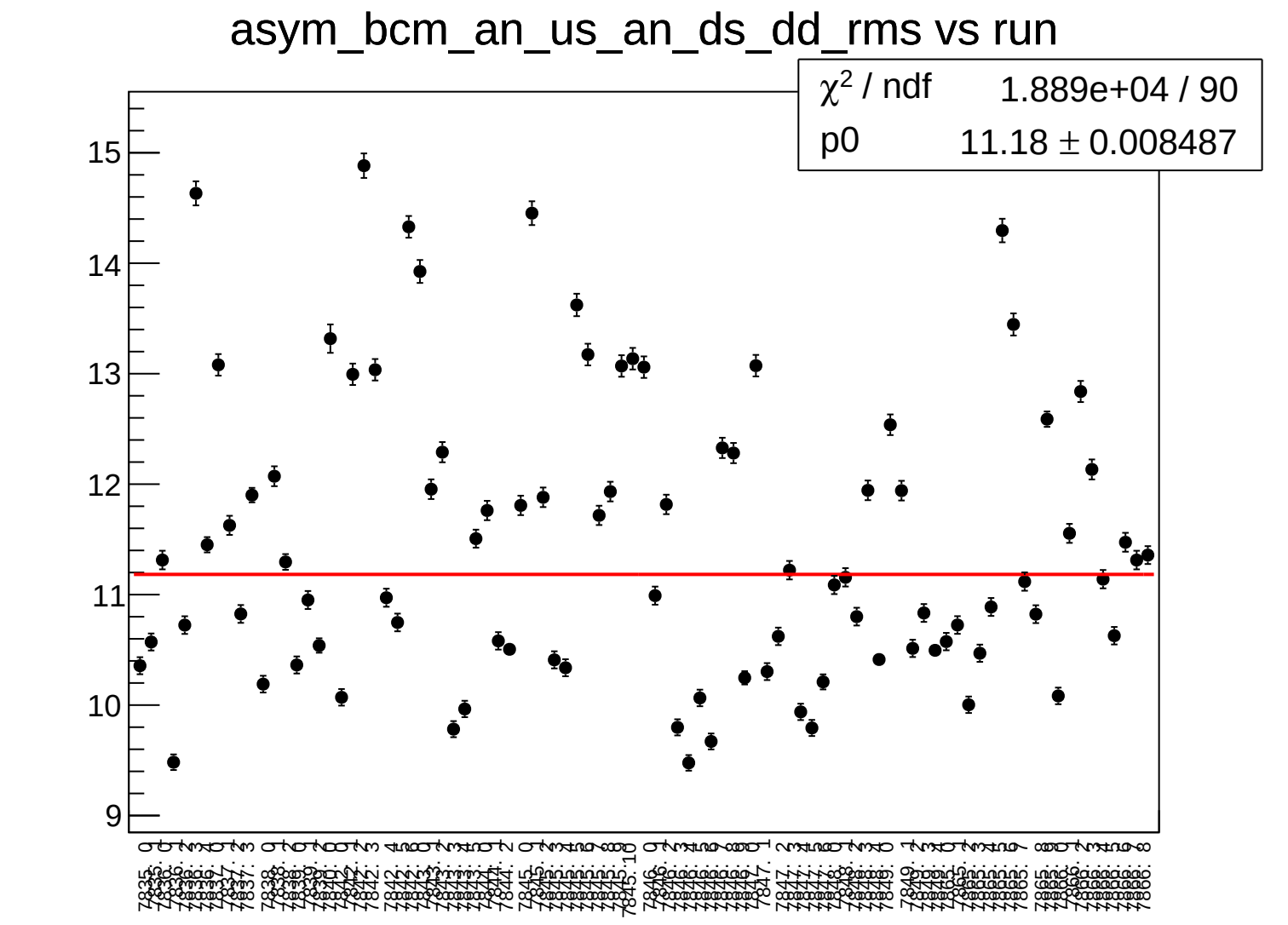

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 25.23 / 90
p0 −185.8 ± 146
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 15.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

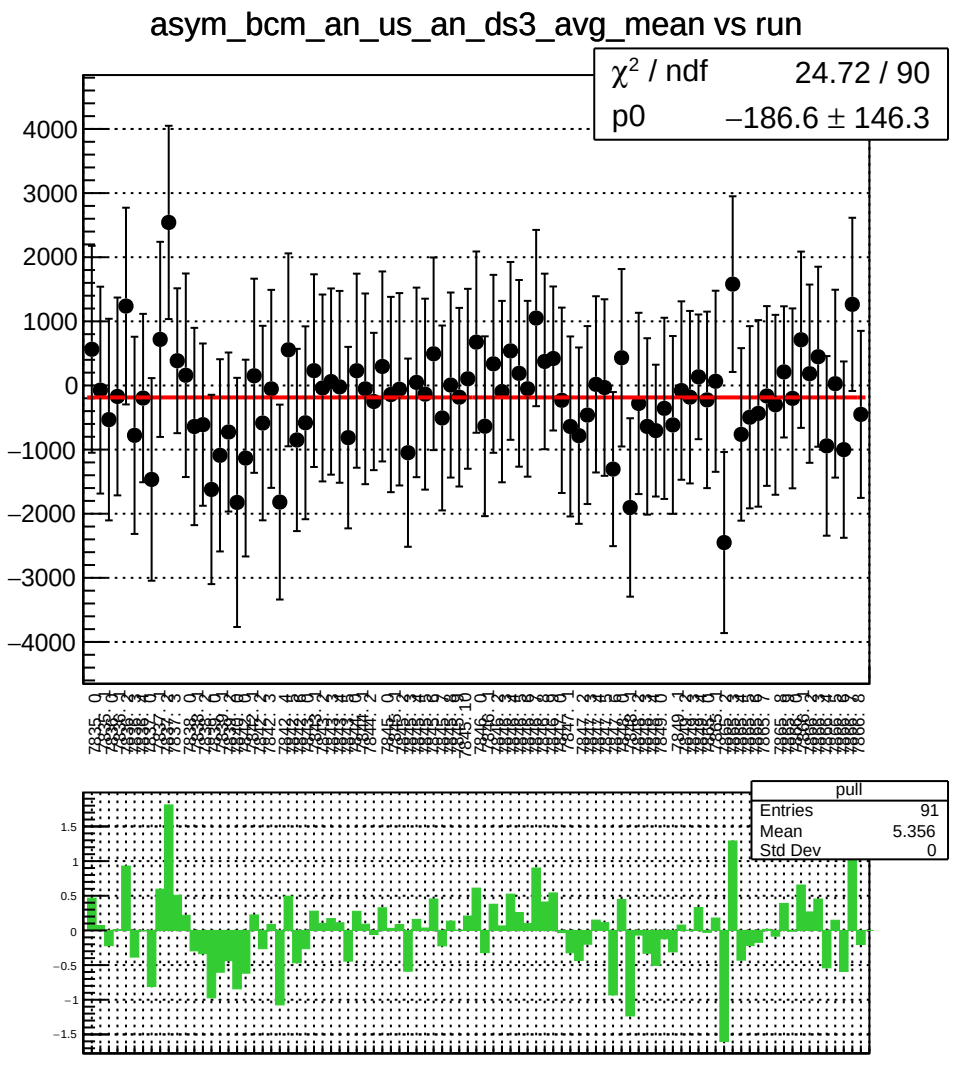

pull1D
Entries 91
Mean −0.003063
Std Dev 0.5265
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

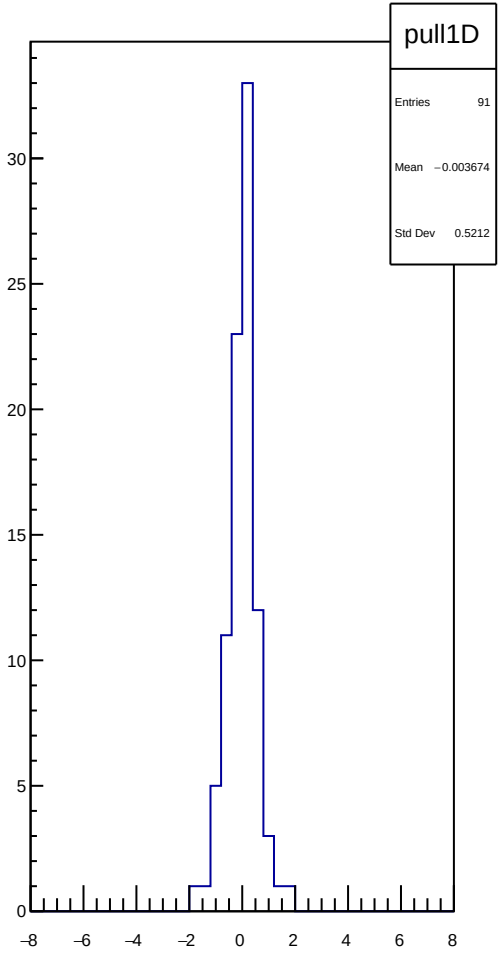

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 4307 / 90
p0 136.6 ± 0.1032
160
155
150
145
140
135
130
125

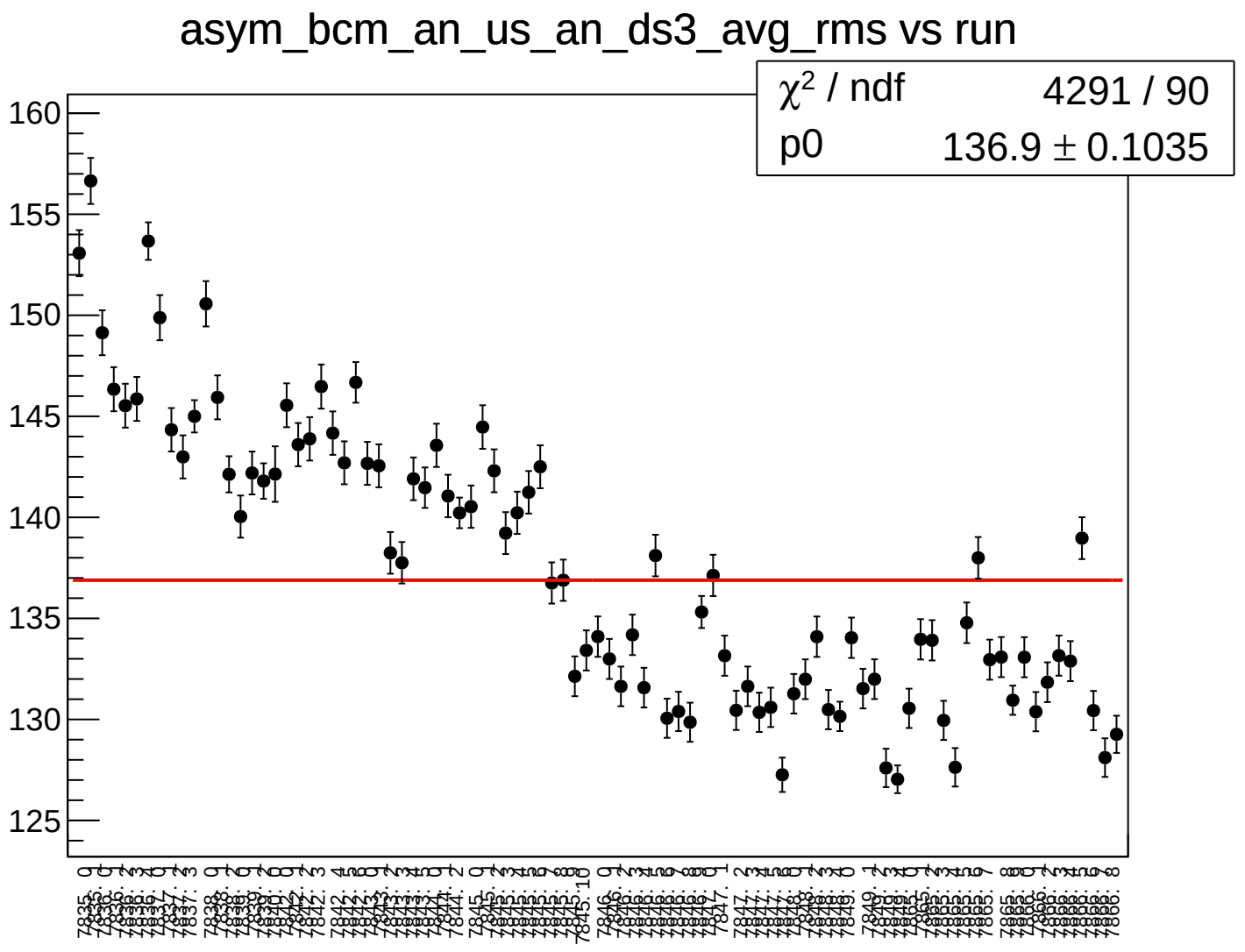

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 87.05 / 90
p0 −13.49 ± 12
400
200
0
−200
−400
pull
Entries 91
Mean −166.2
Std Dev 0
3
2
1
0
−1
−2
−3

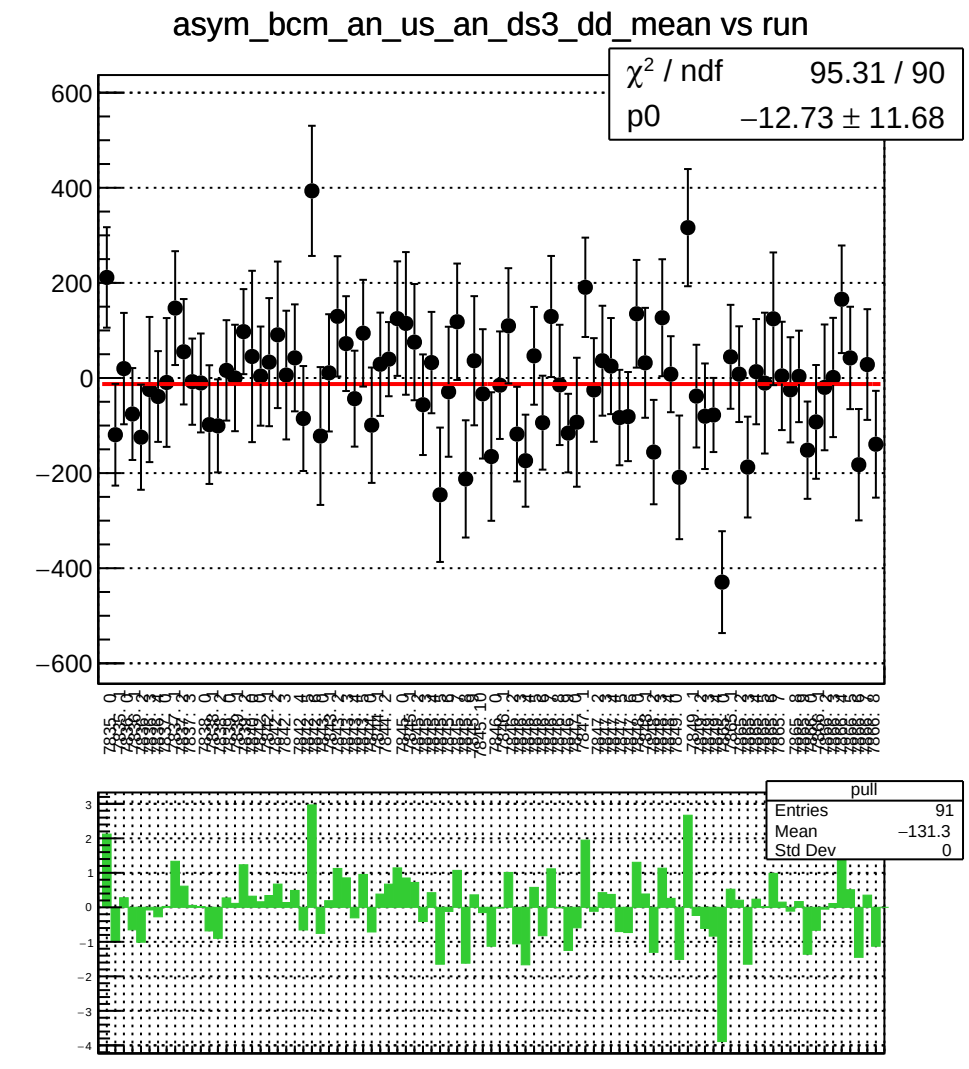

pull1D
Entries 91
Mean 0.0151
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

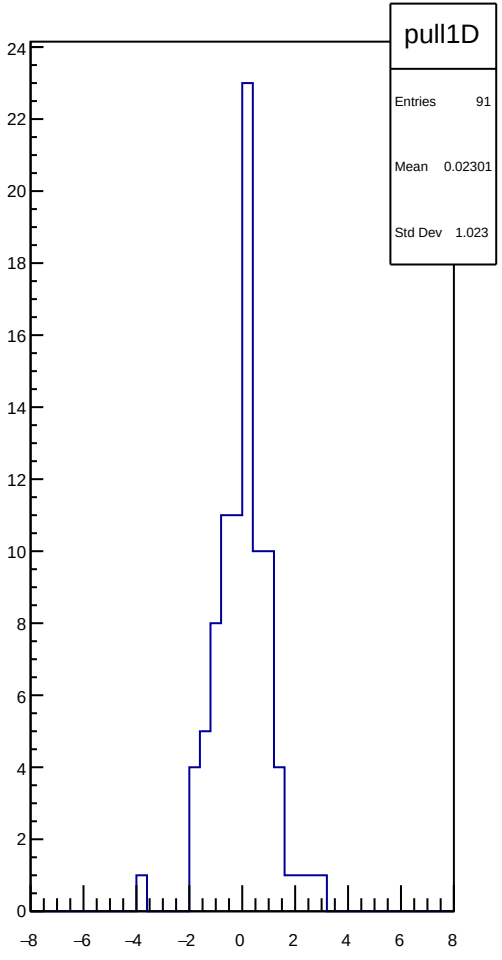

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.889e+04 / 90
p0 11.18 ± 0.008487
15
14
13
12
11
10
9

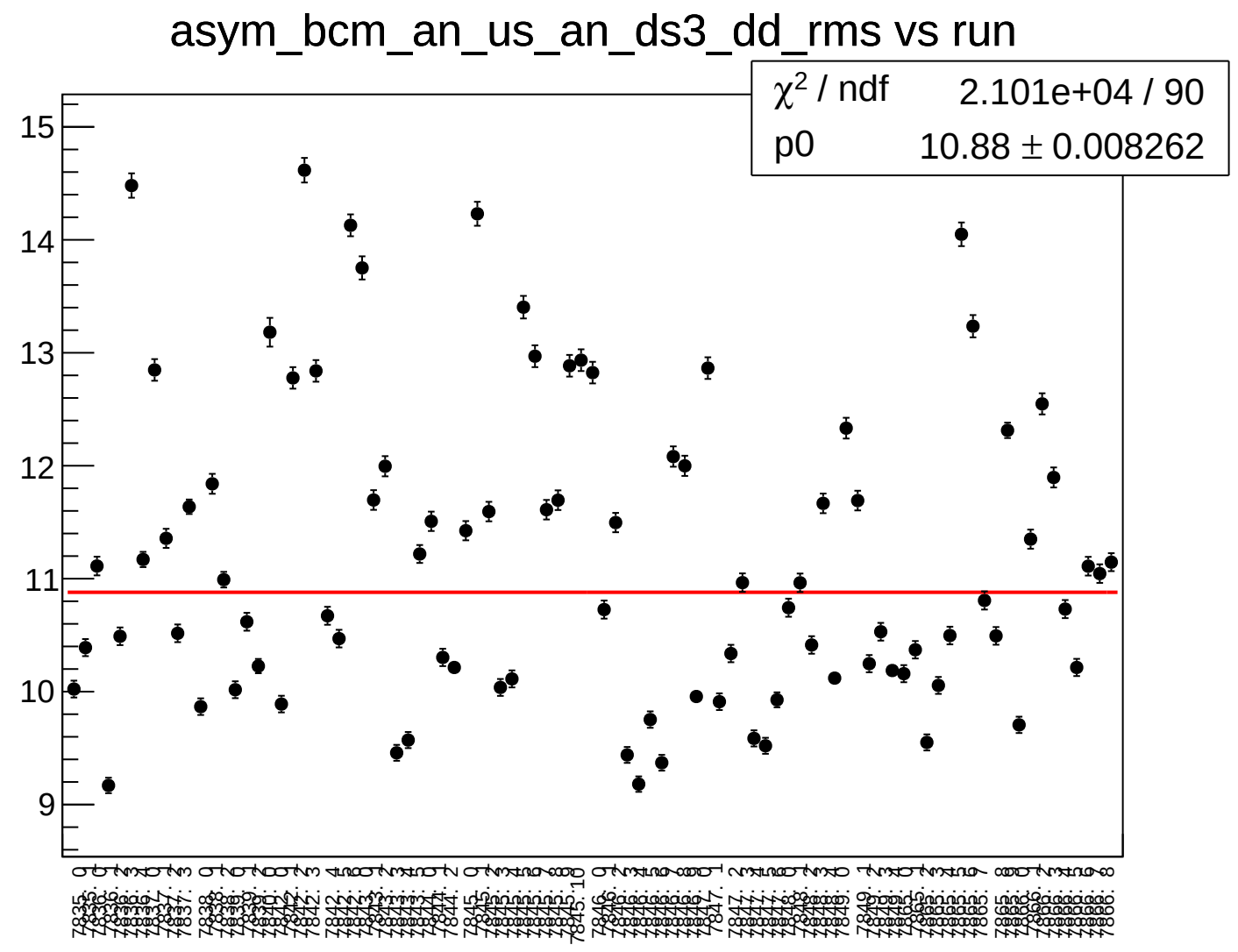

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 24.72 / 90
p0 −186.6 ± 146.3
pull
Entries 91
Mean 5.356
Std Dev 0

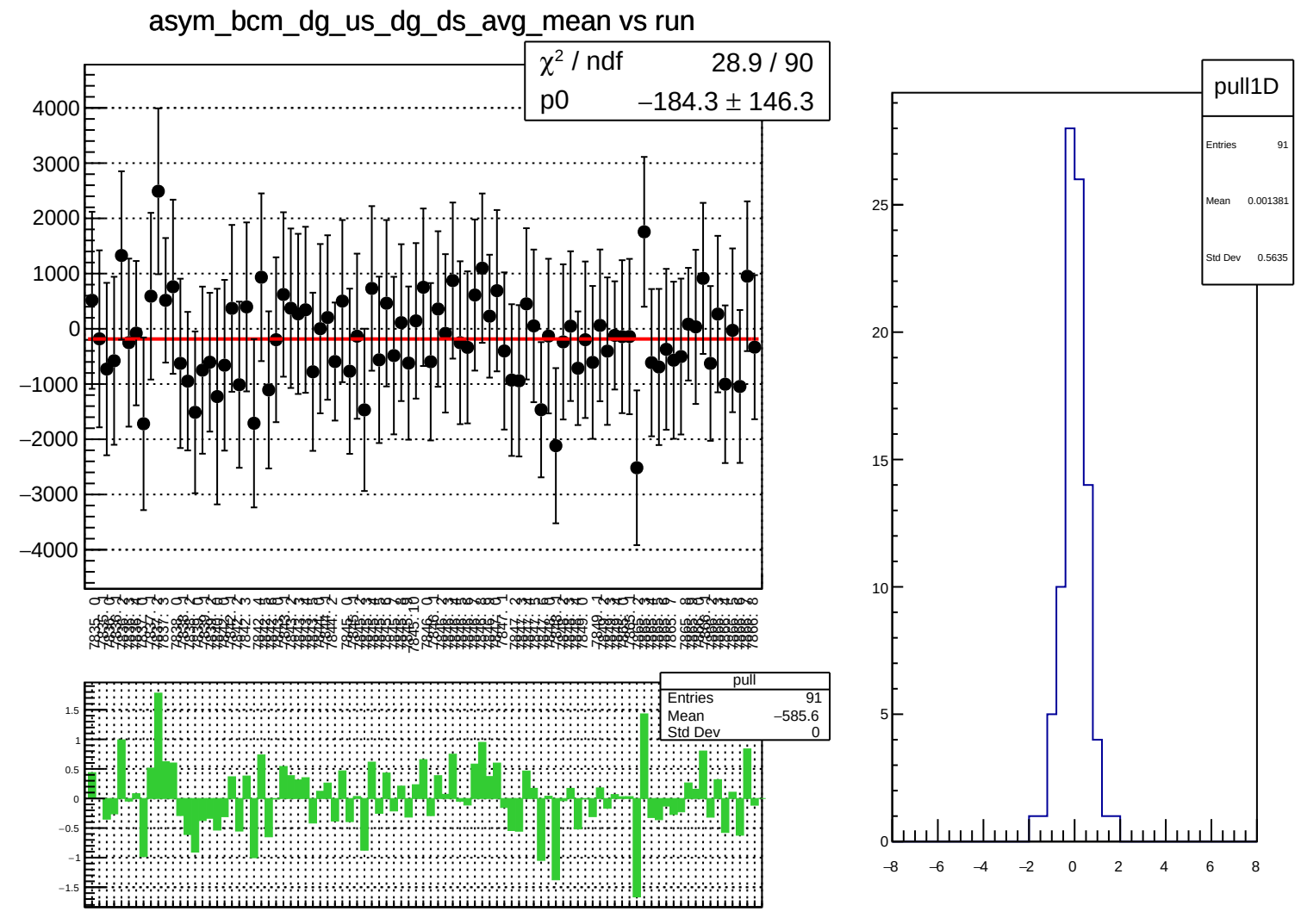

pull1D
Entries 91
Mean −0.003674
Std Dev 0.5212

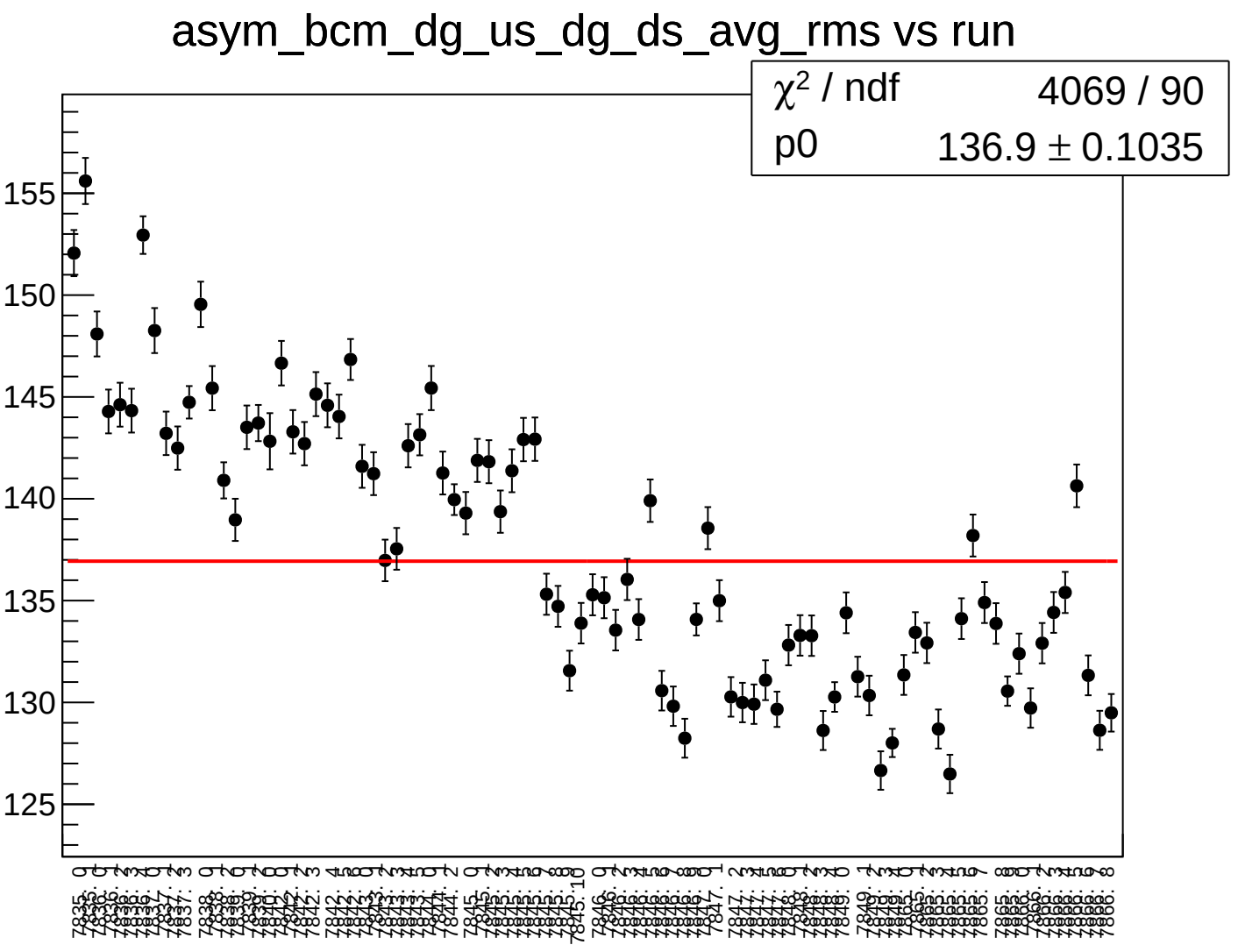

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 4291 / 90
p0 136.9 ± 0.1035
160
155
150
145
140
135
130
125

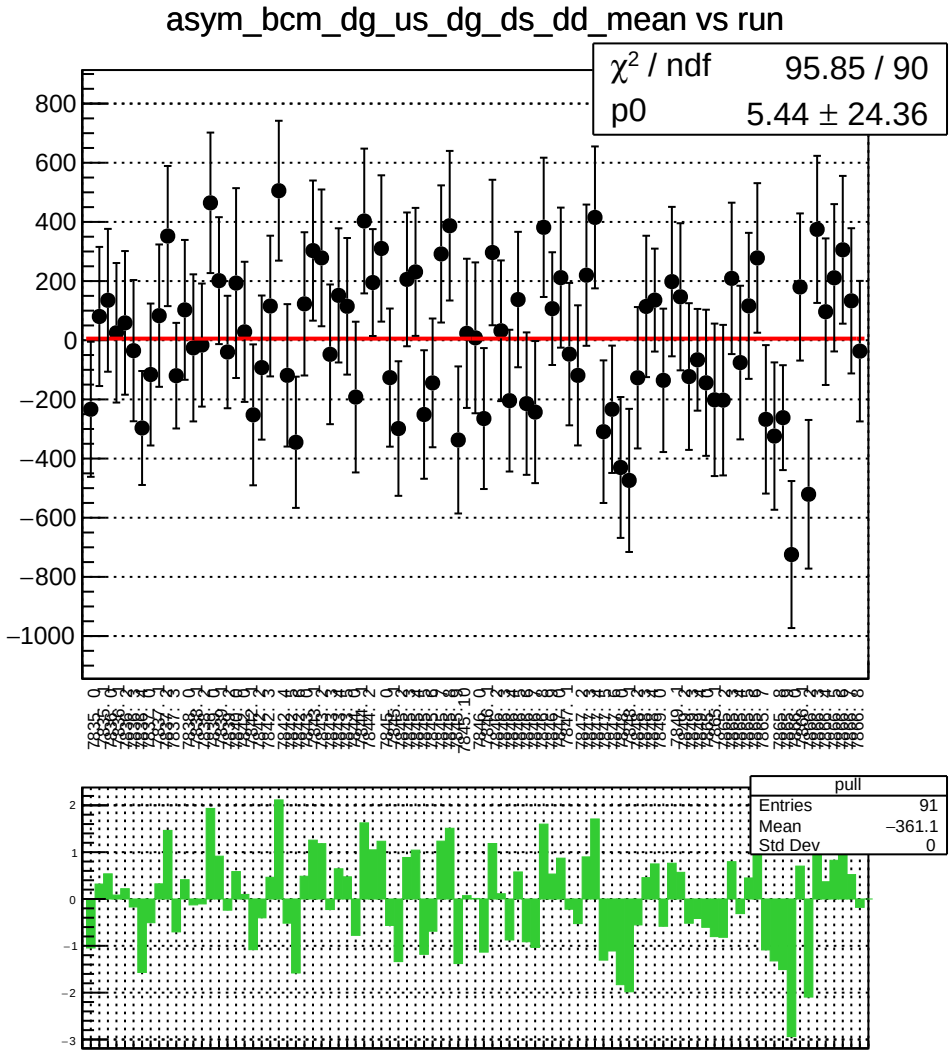

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 95.31 / 90
p0 −12.73 ± 11.68
pull
Entries 91
Mean −131.3
Std Dev 0

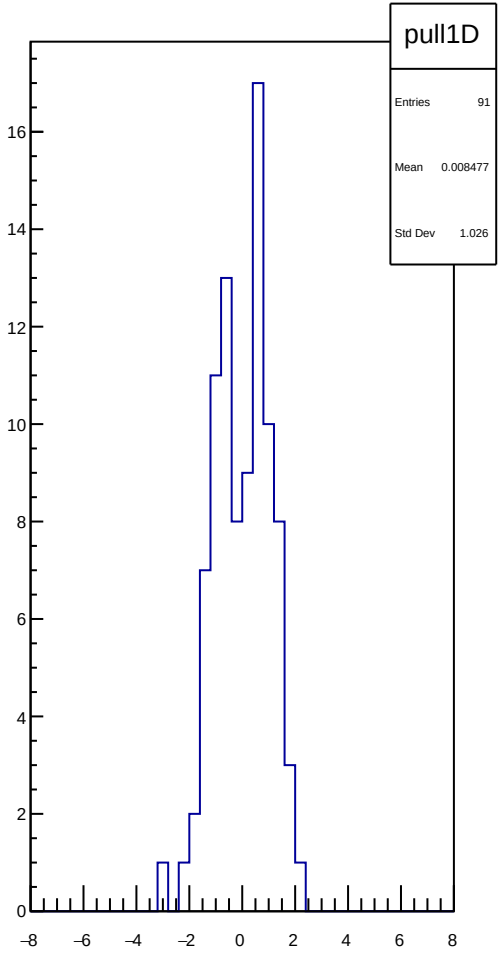

pull1D
Entries 91
Mean 0.02301
Std Dev 1.023

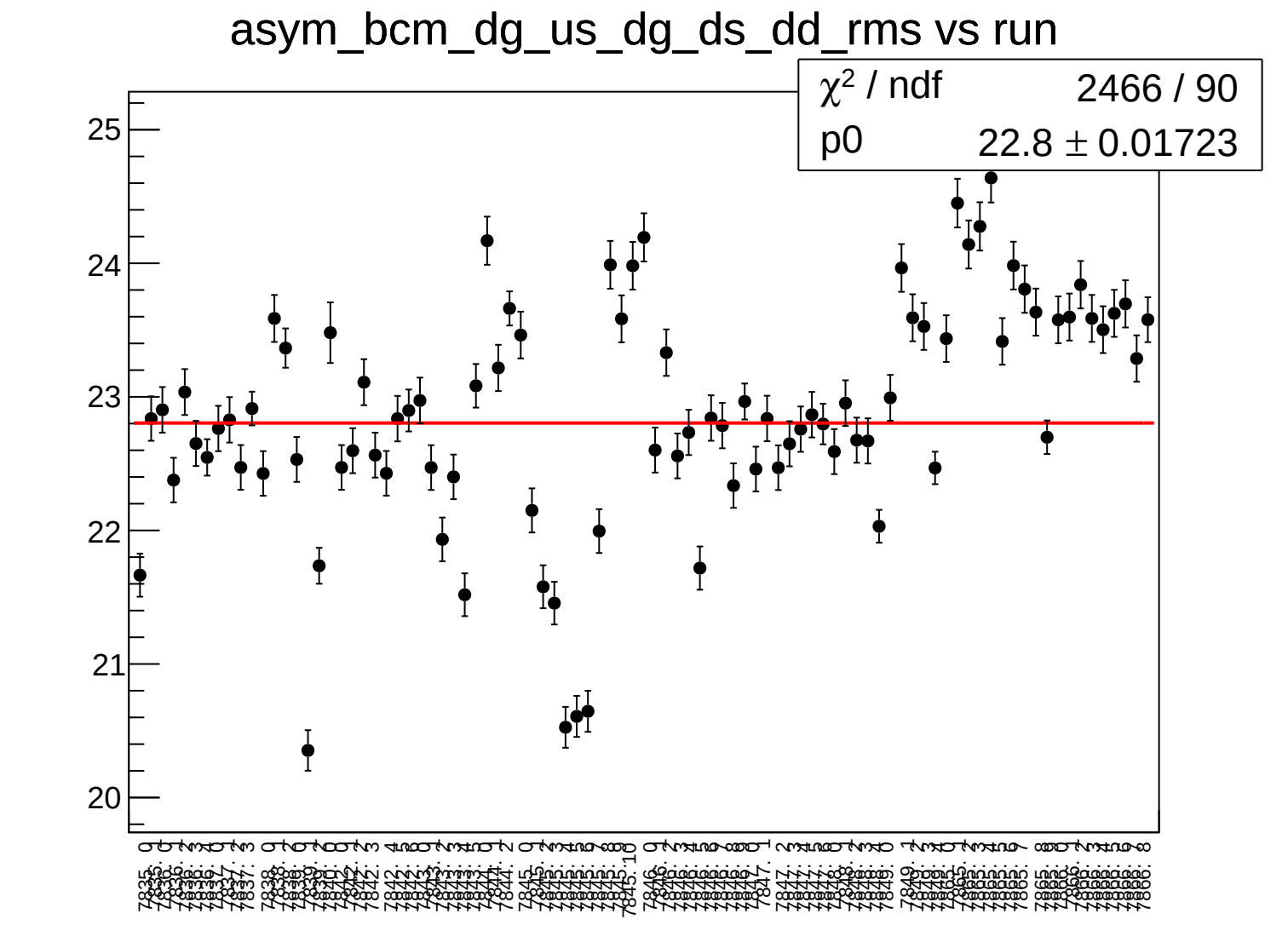

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.101e+04 / 90
p0 10.88 ± 0.008262
15
14
13
12
11
10
9

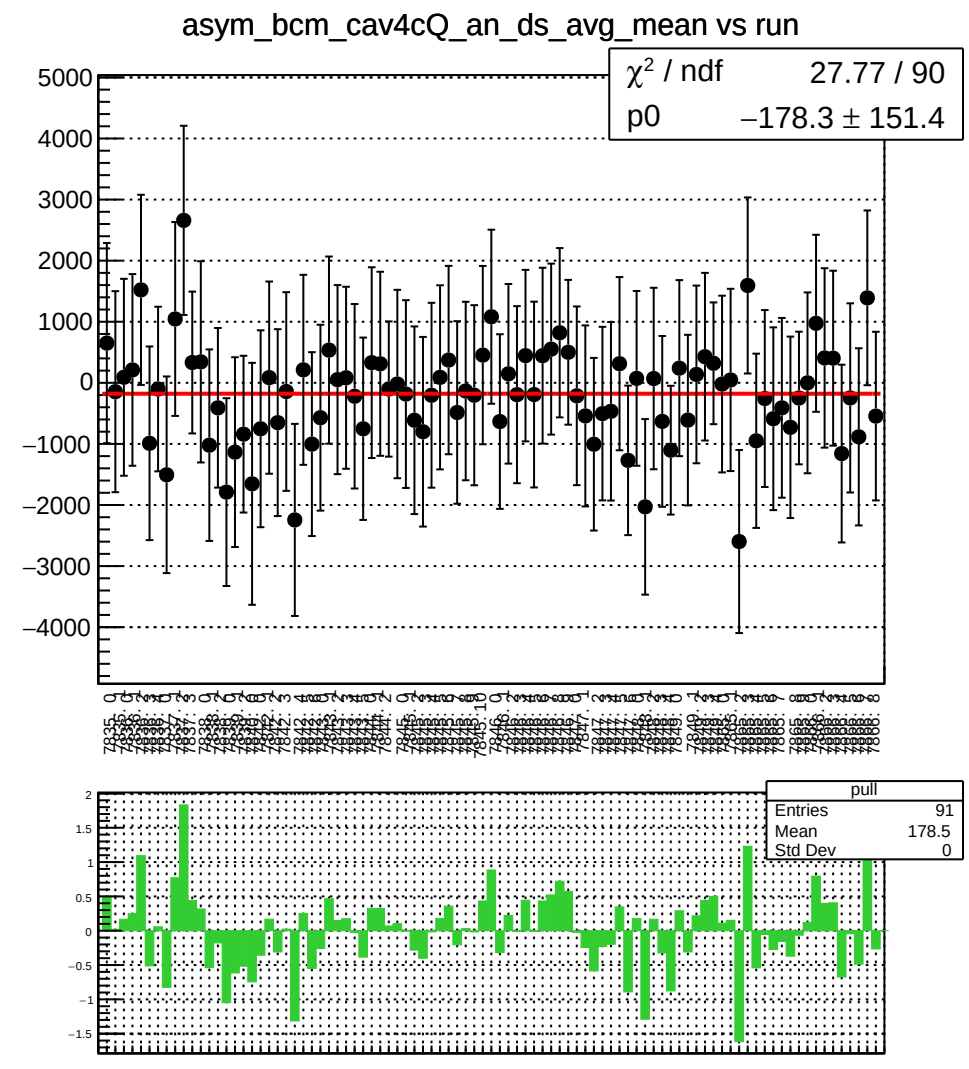

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 28.9 / 90
p0 −184.3 ± 146.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean −585.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.001381
Std Dev 0.5635
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

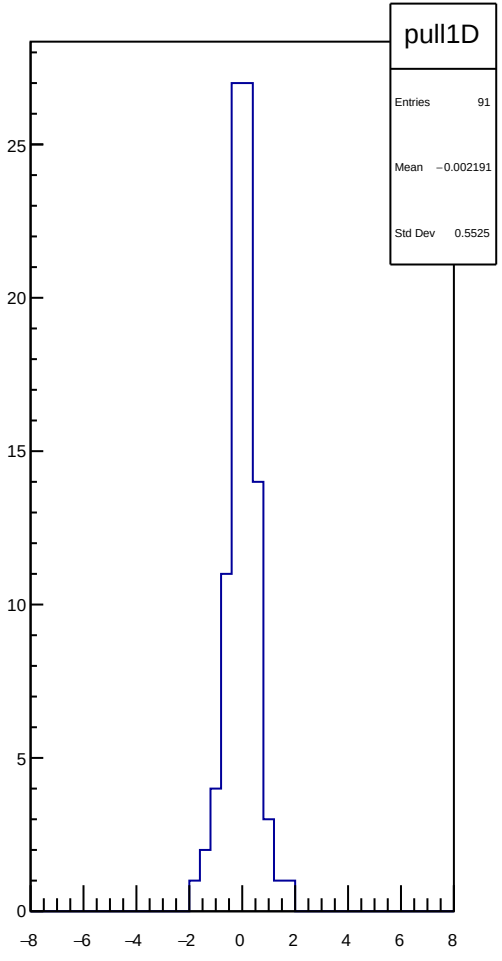

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 4069 / 90
p0 136.9 ± 0.1035
155
150
145
140
135
130
125

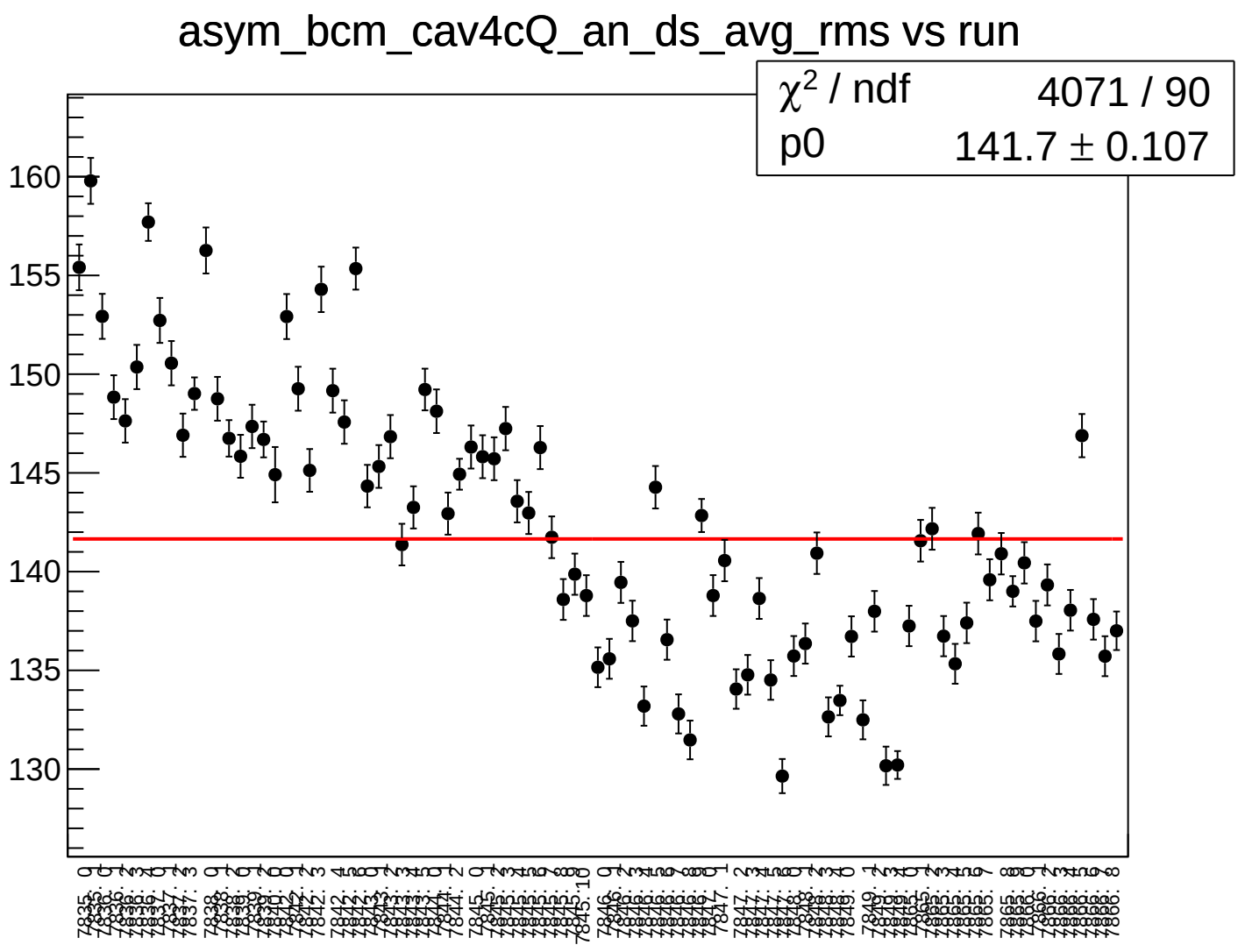

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 95.85 / 90
p0 5.44 ± 24.36
pull
Entries 91
Mean −361.1
Std Dev 0

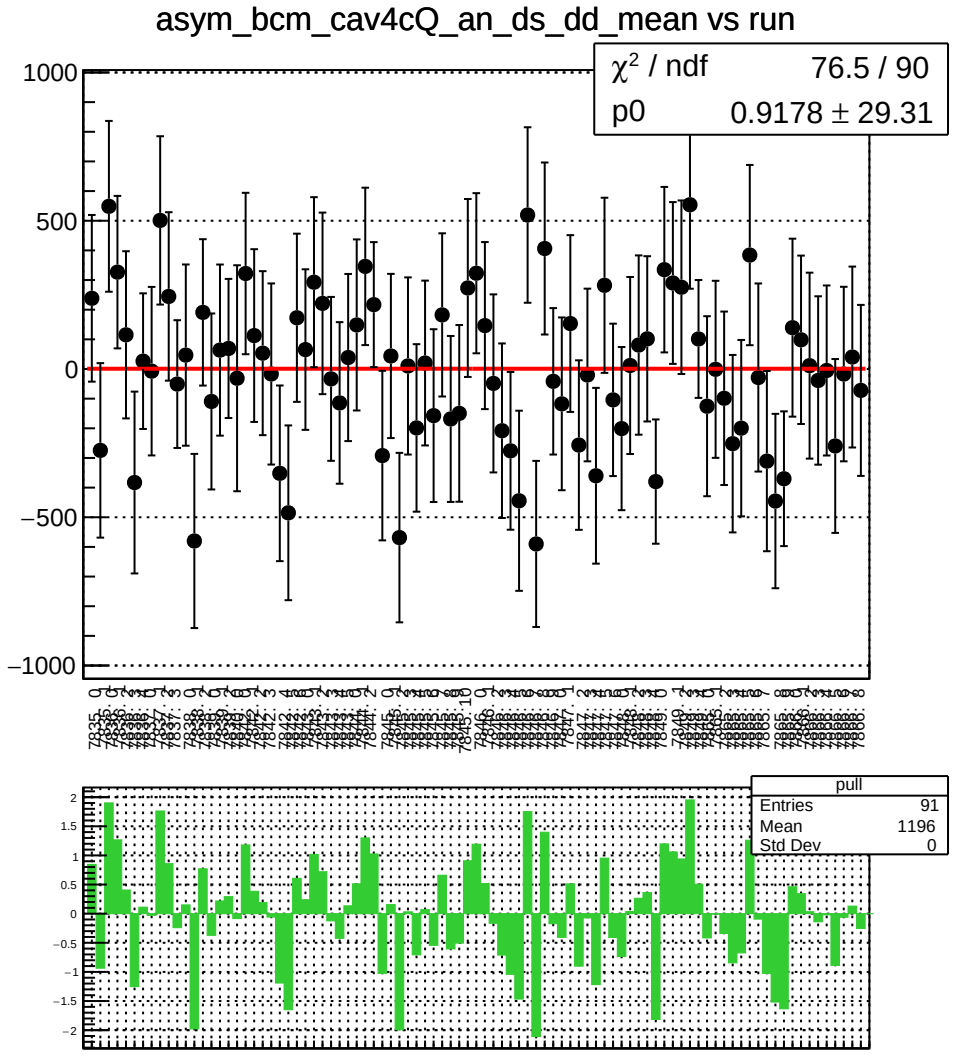

pull1D
Entries 91
Mean 0.008477
Std Dev 1.026

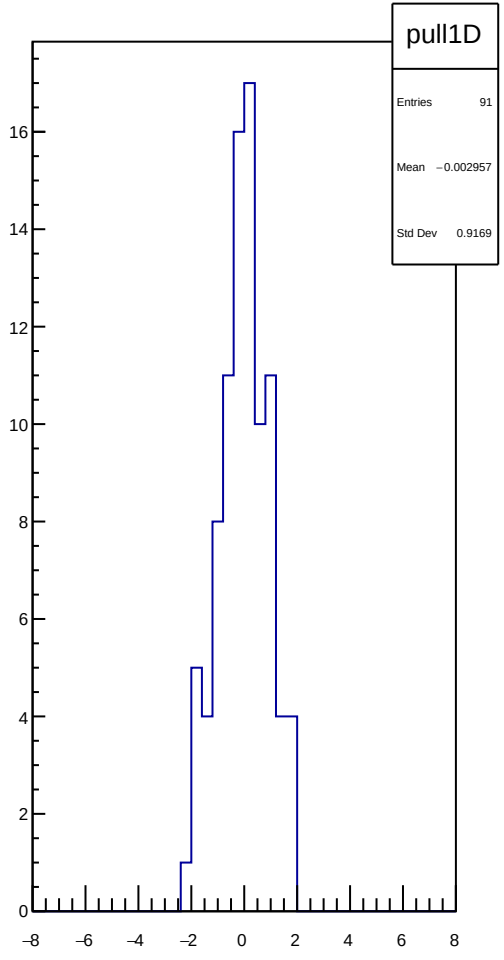

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2466 / 90
p0 22.8 ± 0.01723
25
24
23
22
21
20

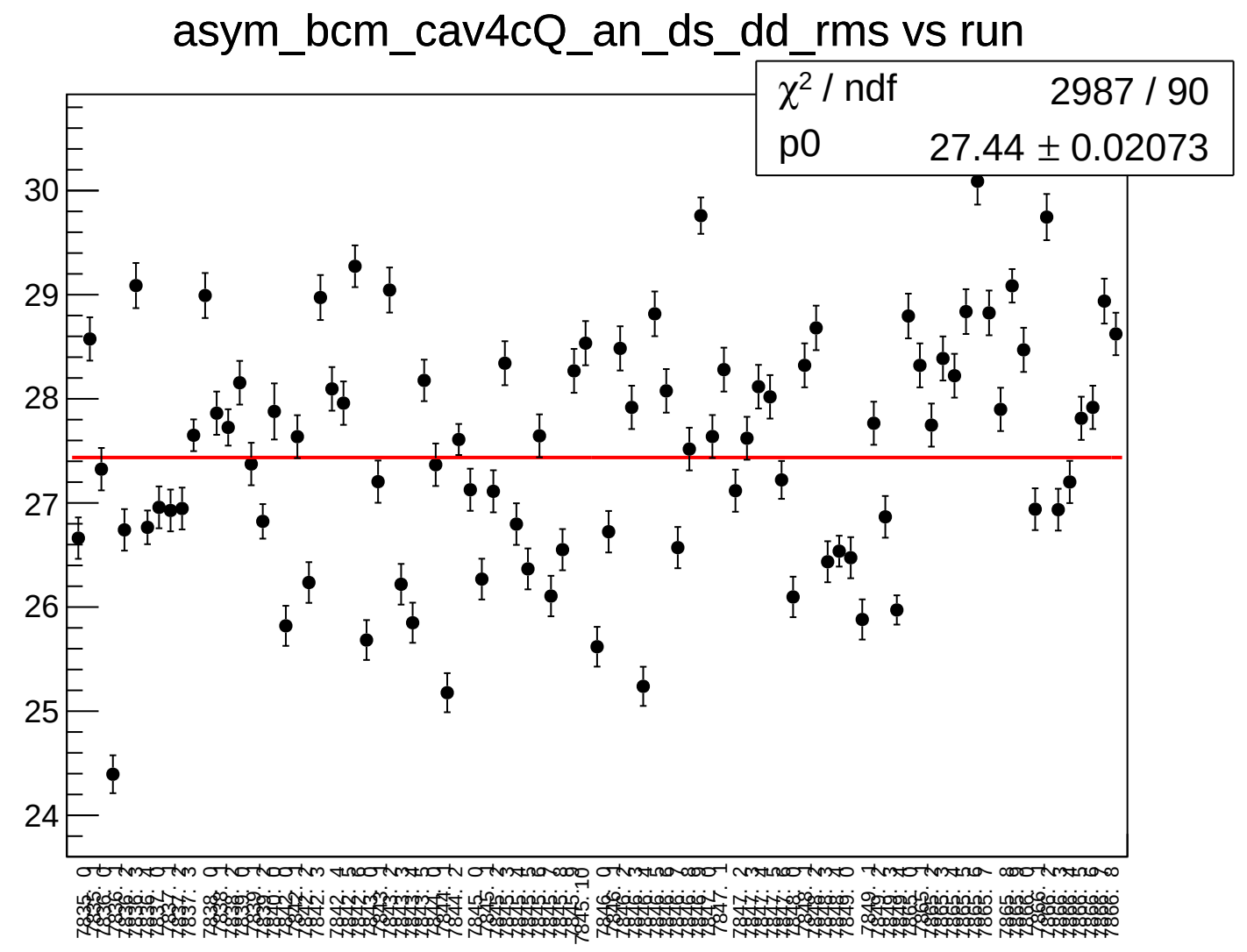

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 27.77 / 90
p0 −178.3 ± 151.4
pull
Entries 91
Mean 178.5
Std Dev 0

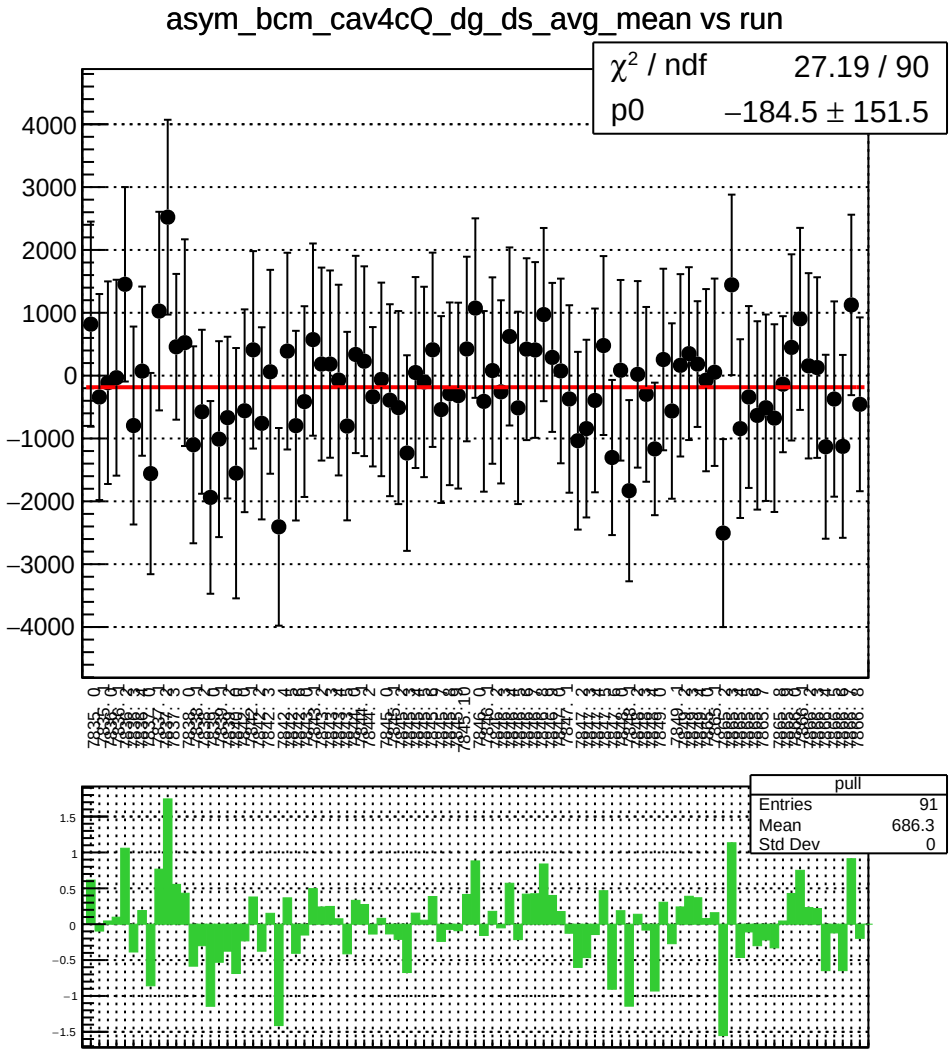

pull1D
Entries 91
Mean −0.002191
Std Dev 0.5525

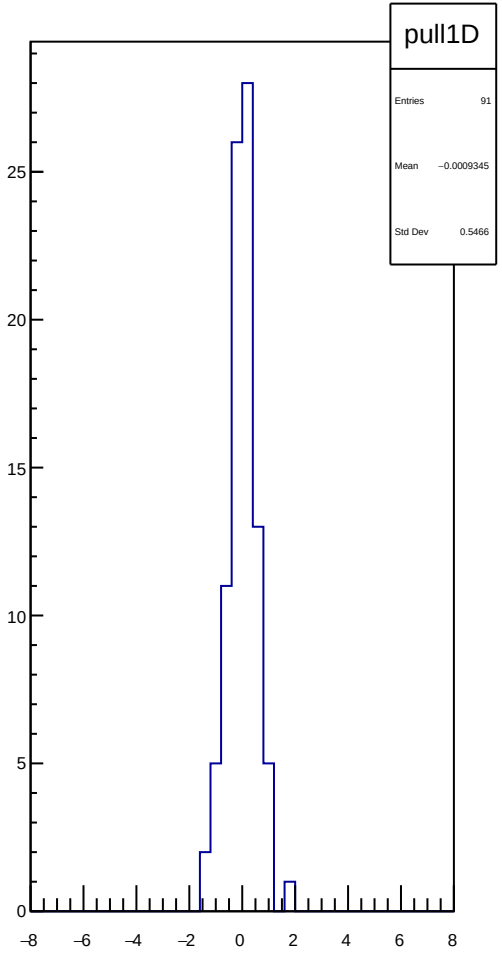

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 4071 / 90
p0 141.7 ± 0.107
160
155
150
145
140
135
130

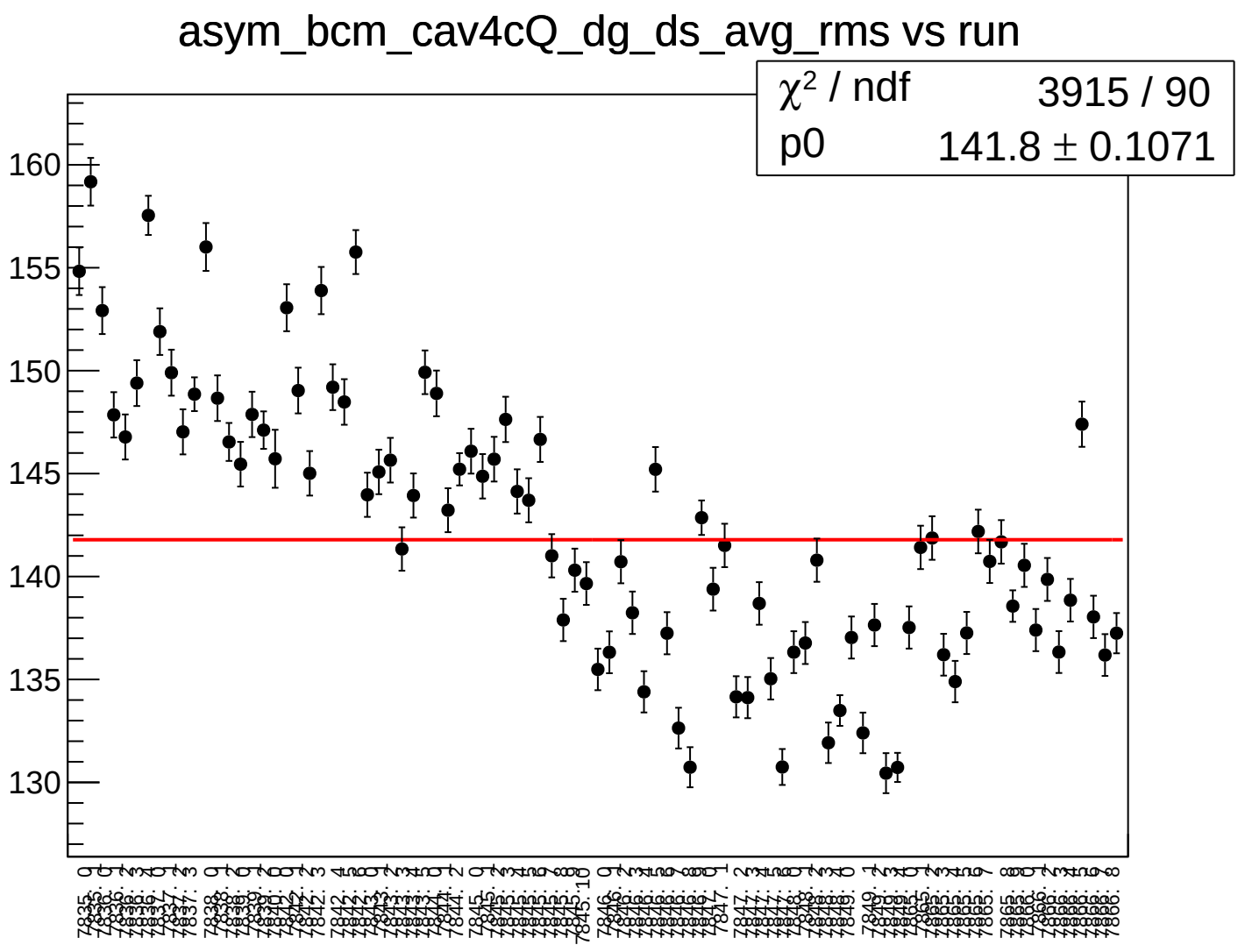

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 76.5 / 90
p0 0.9178 ± 29.31
1000
500
0
−500
−1000
pull
Entries 91
Mean 1196
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

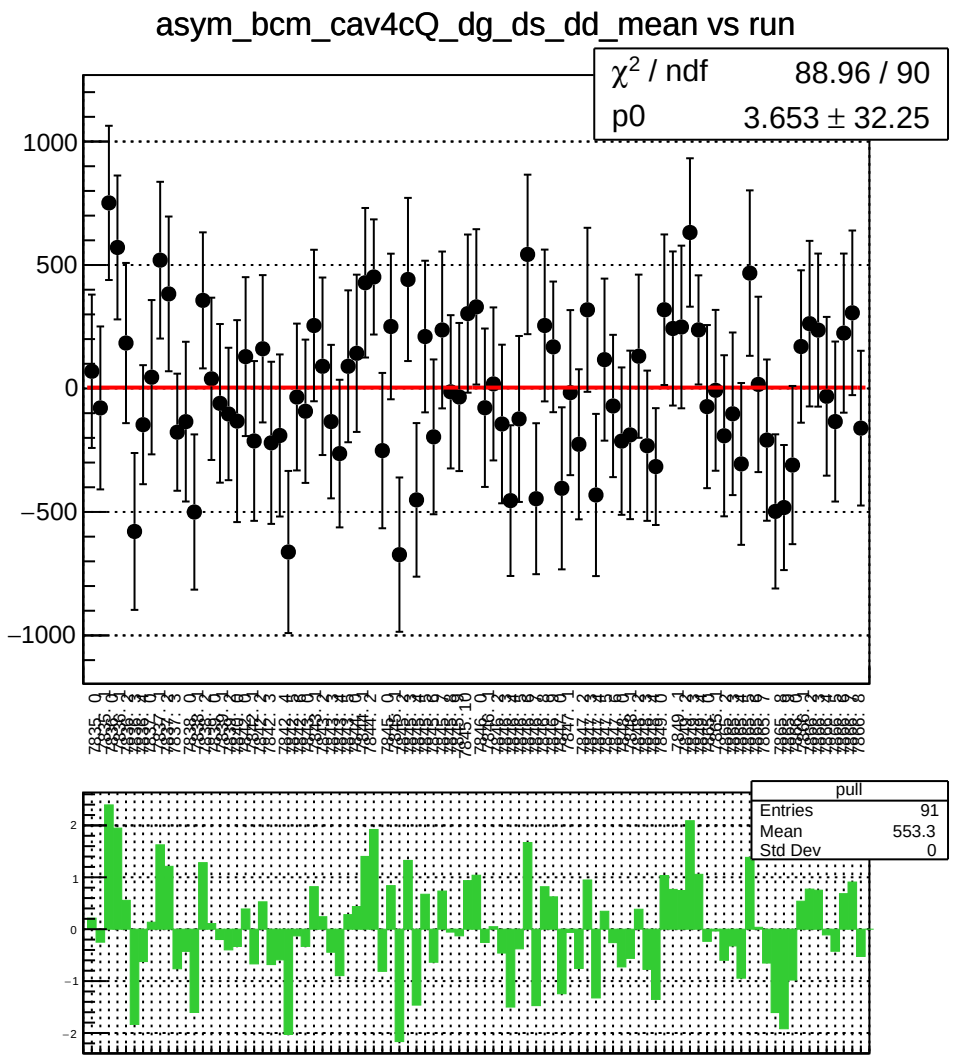

pull1D
Entries 91
Mean −0.002957
Std Dev 0.9169
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

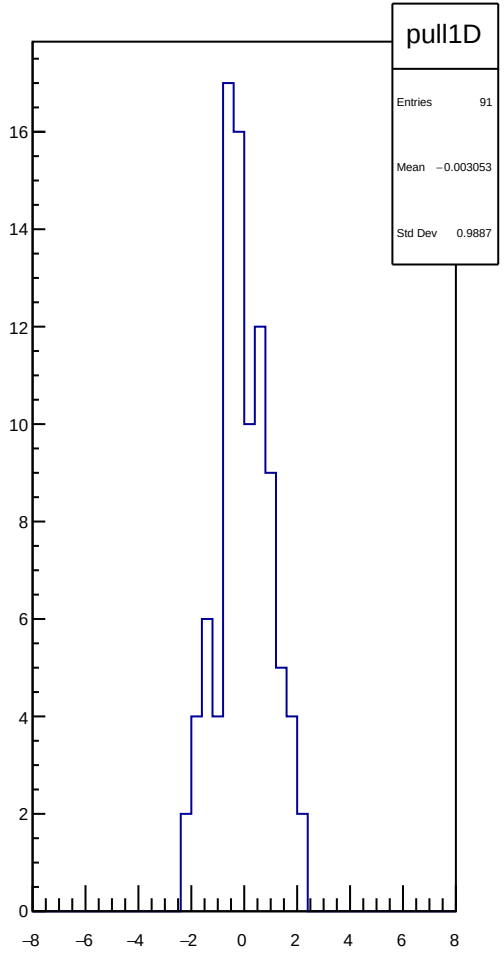

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2987 / 90
p0 27.44 ± 0.02073
30
29
28
27
26
25
24

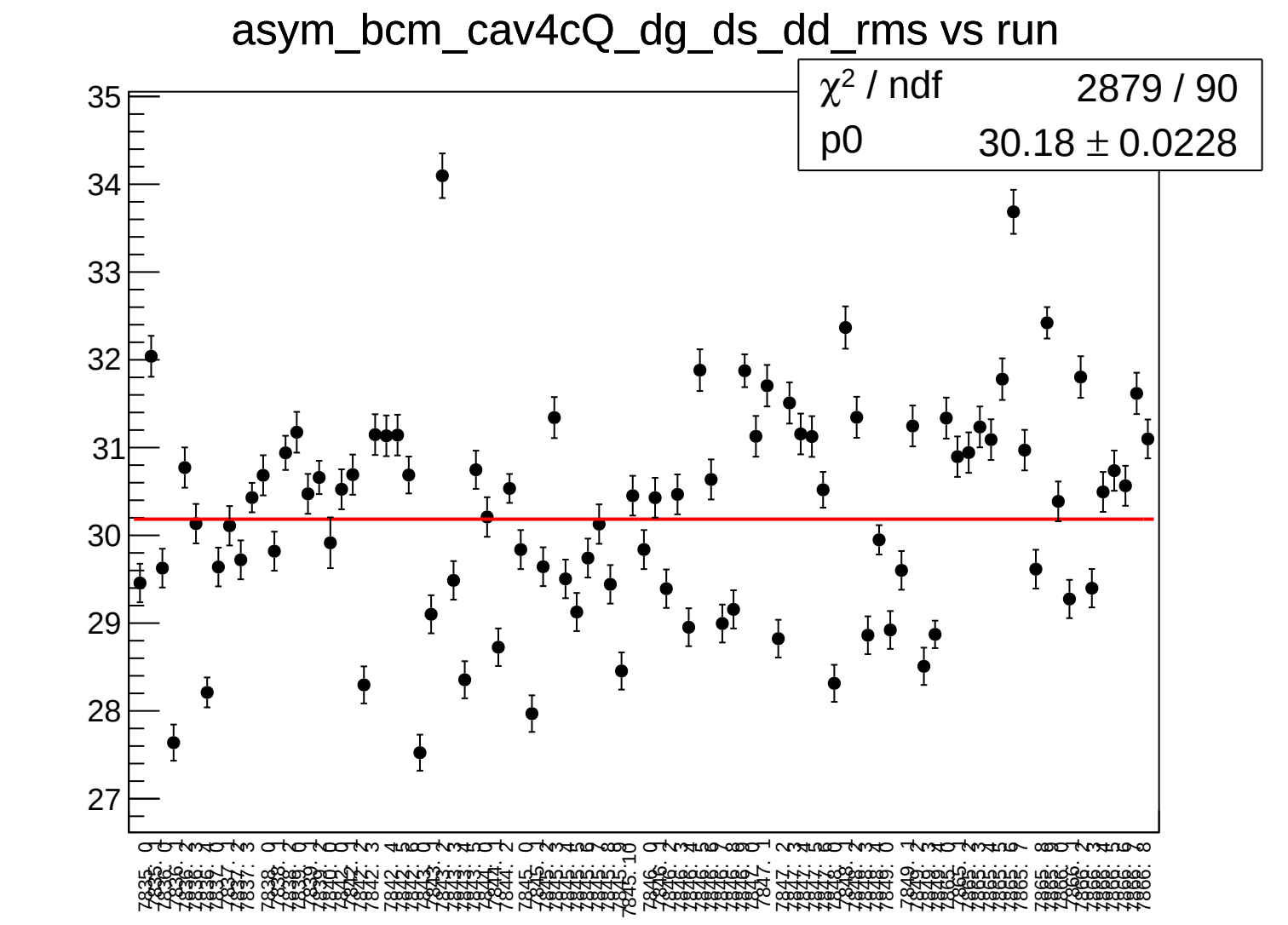

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 27.19 / 90
p0 −184.5 ± 151.5
pull
Entries 91
Mean 686.3
Std Dev 0

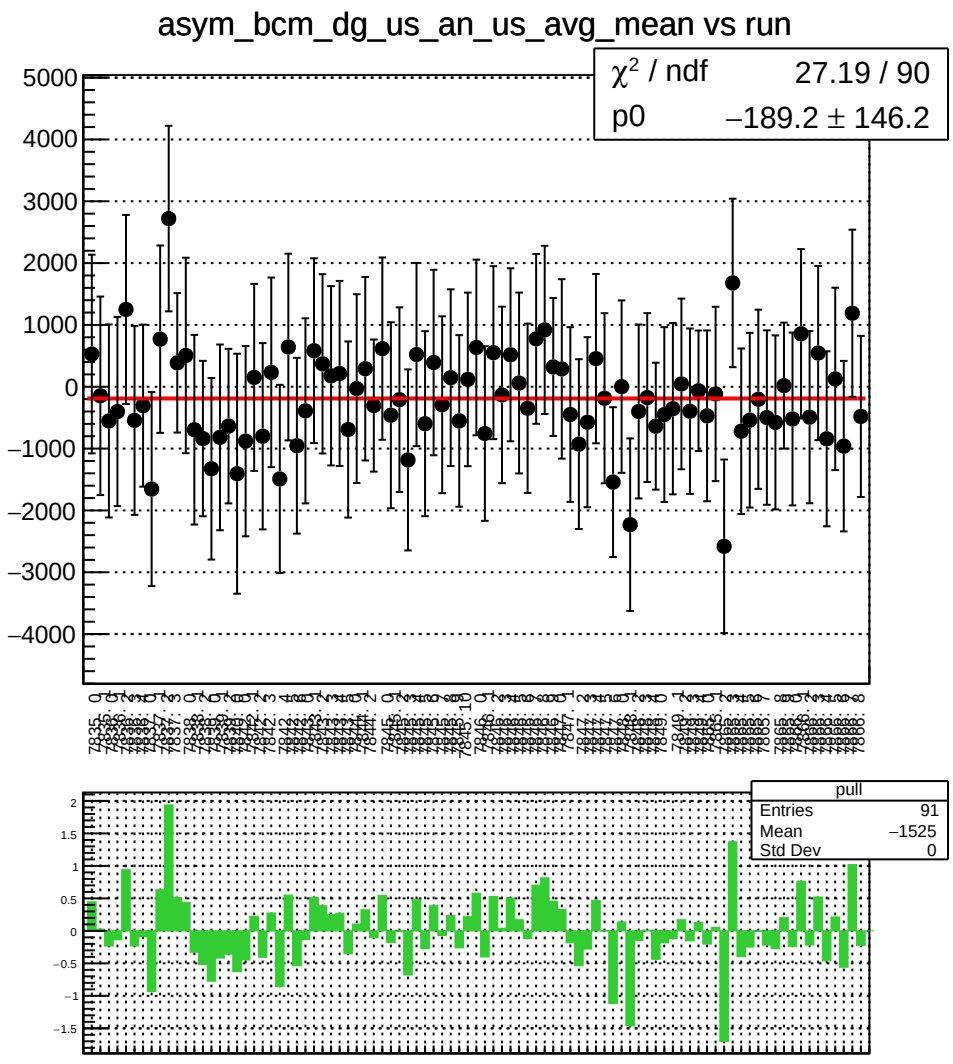

pull1D
Entries 91
Mean −0.0009345
Std Dev 0.5466

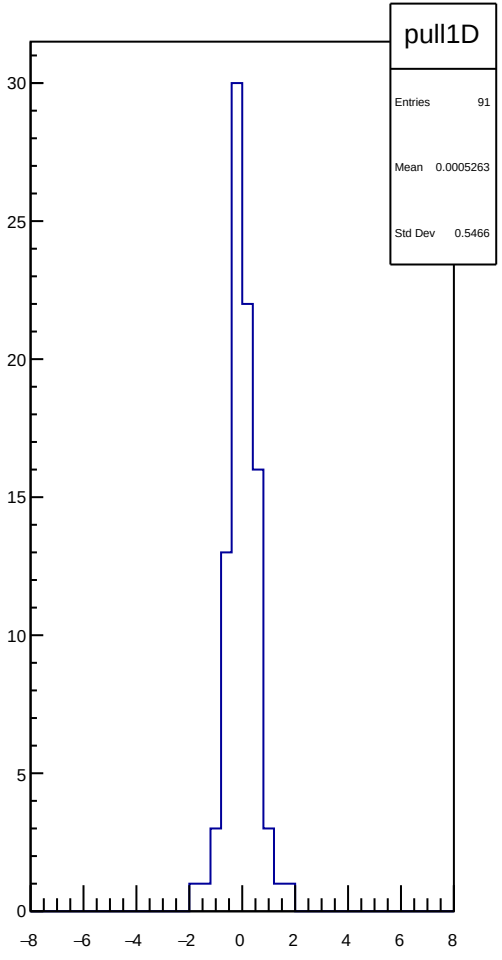

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3915 / 90
p0 141.8 ± 0.1071
160
155
150
145
140
135
130

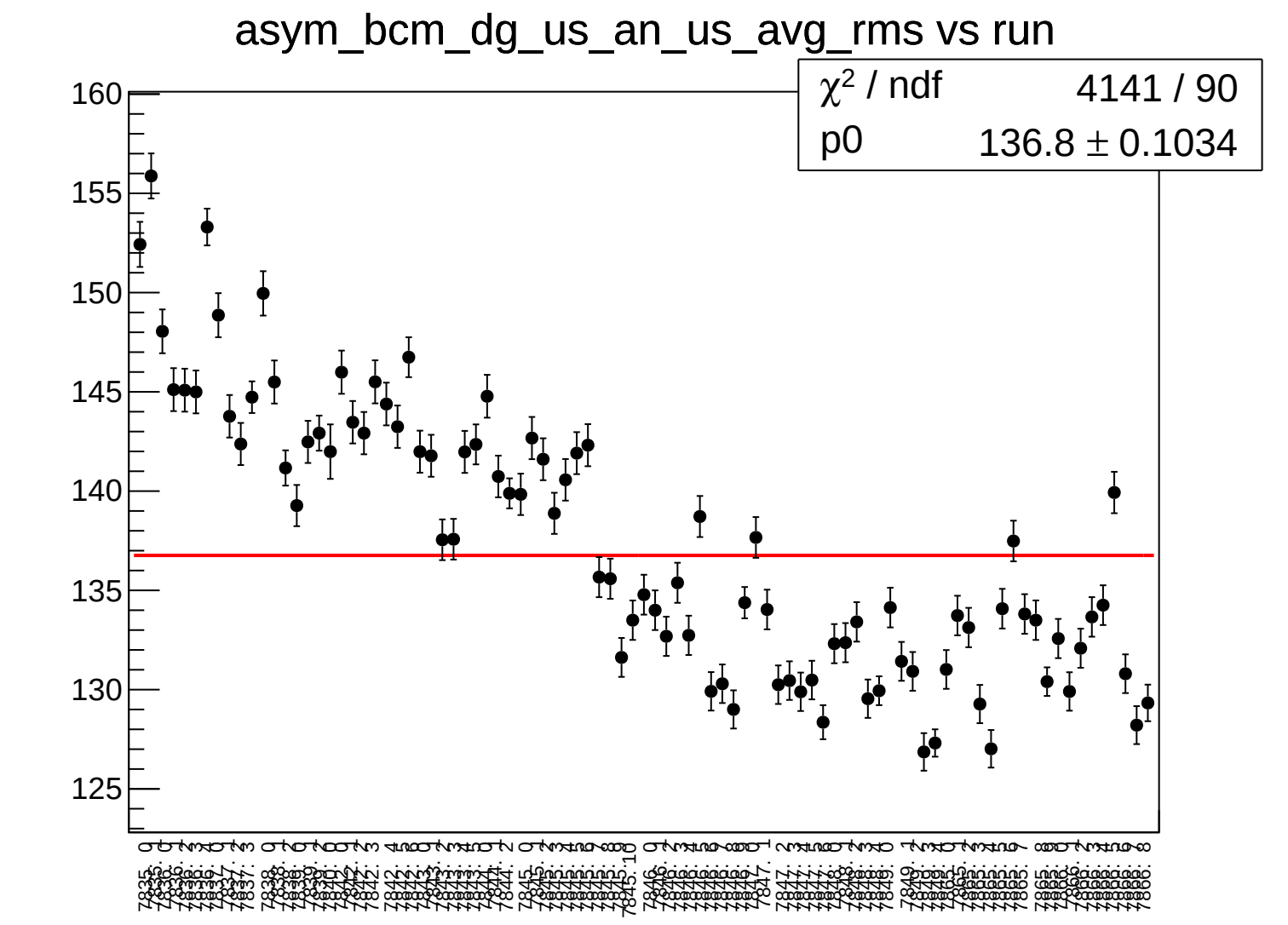

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 88.96 / 90
p0 3.653 ± 32.25
1000
500
0
−500
−1000
pull
Entries 91
Mean 553.3
Std Dev 0
2
1
0
−1
−2

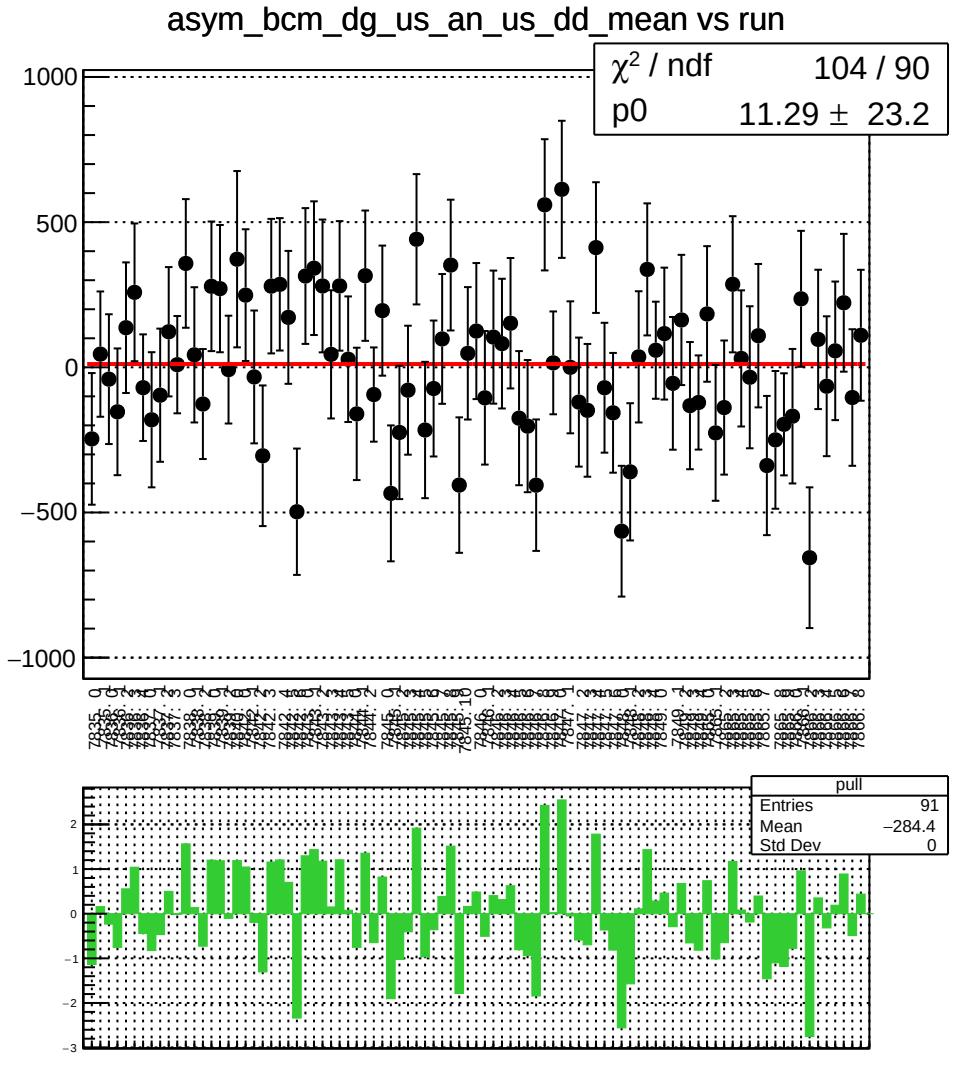

pull1D
Entries 91
Mean −0.003053
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

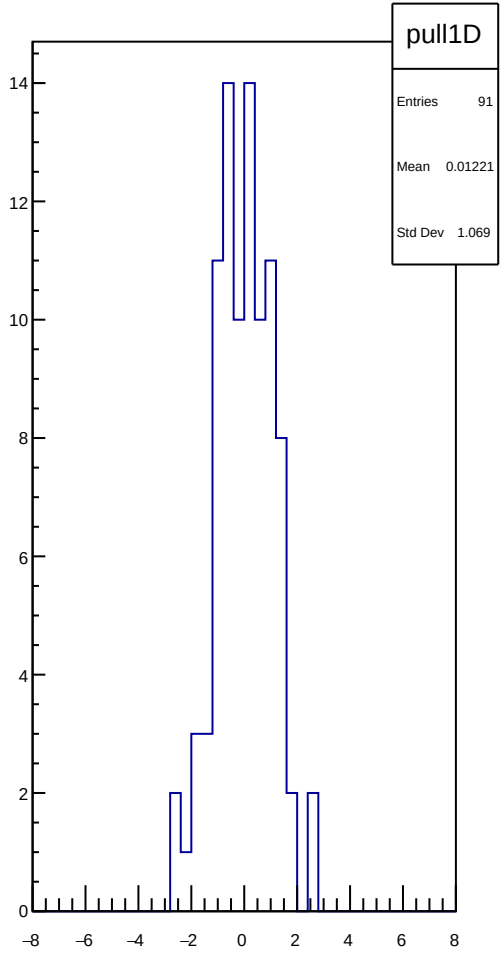

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2879 / 90
p0 30.18 ± 0.0228
35
34
33
32
31
30
29
28
27


asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 27.19 / 90
p0 −189.2 ± 146.2
pull
Entries 91
Mean −1525
Std Dev 0

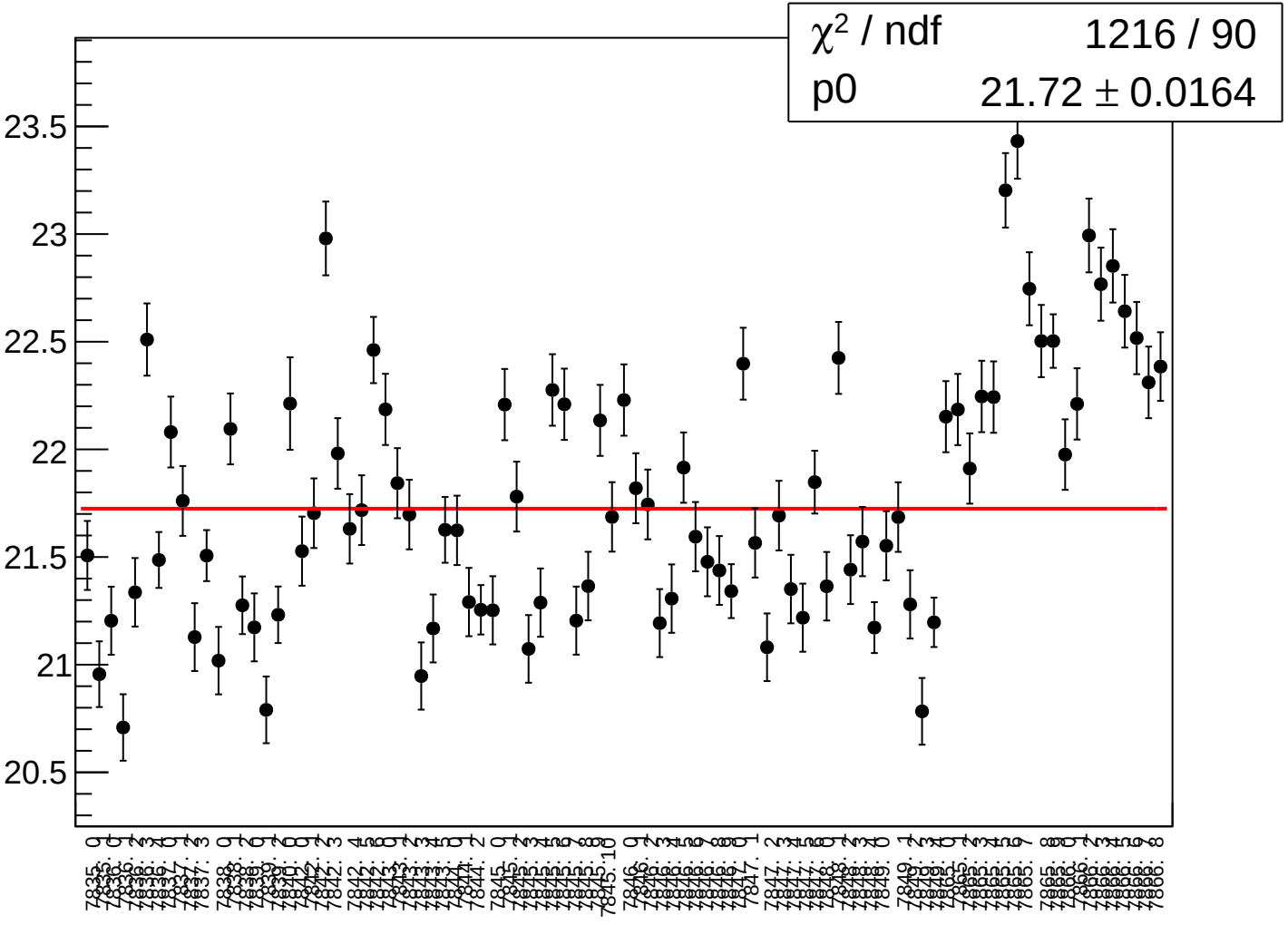

pull1D
Entries 91
Mean 0.0005263
Std Dev 0.5466

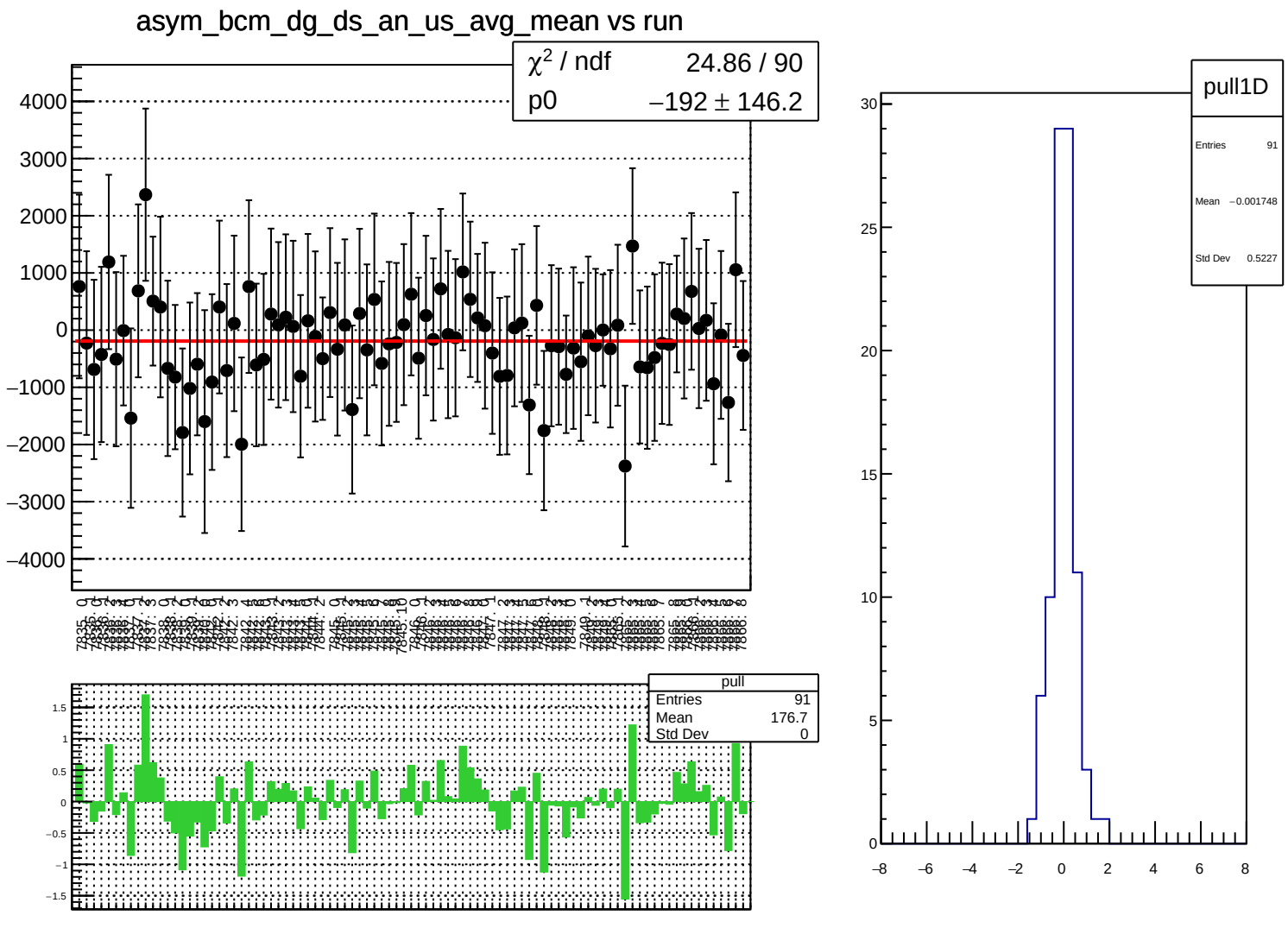

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 4141 / 90
p0 136.8 ± 0.1034
160
155
150
145
140
135
130
125

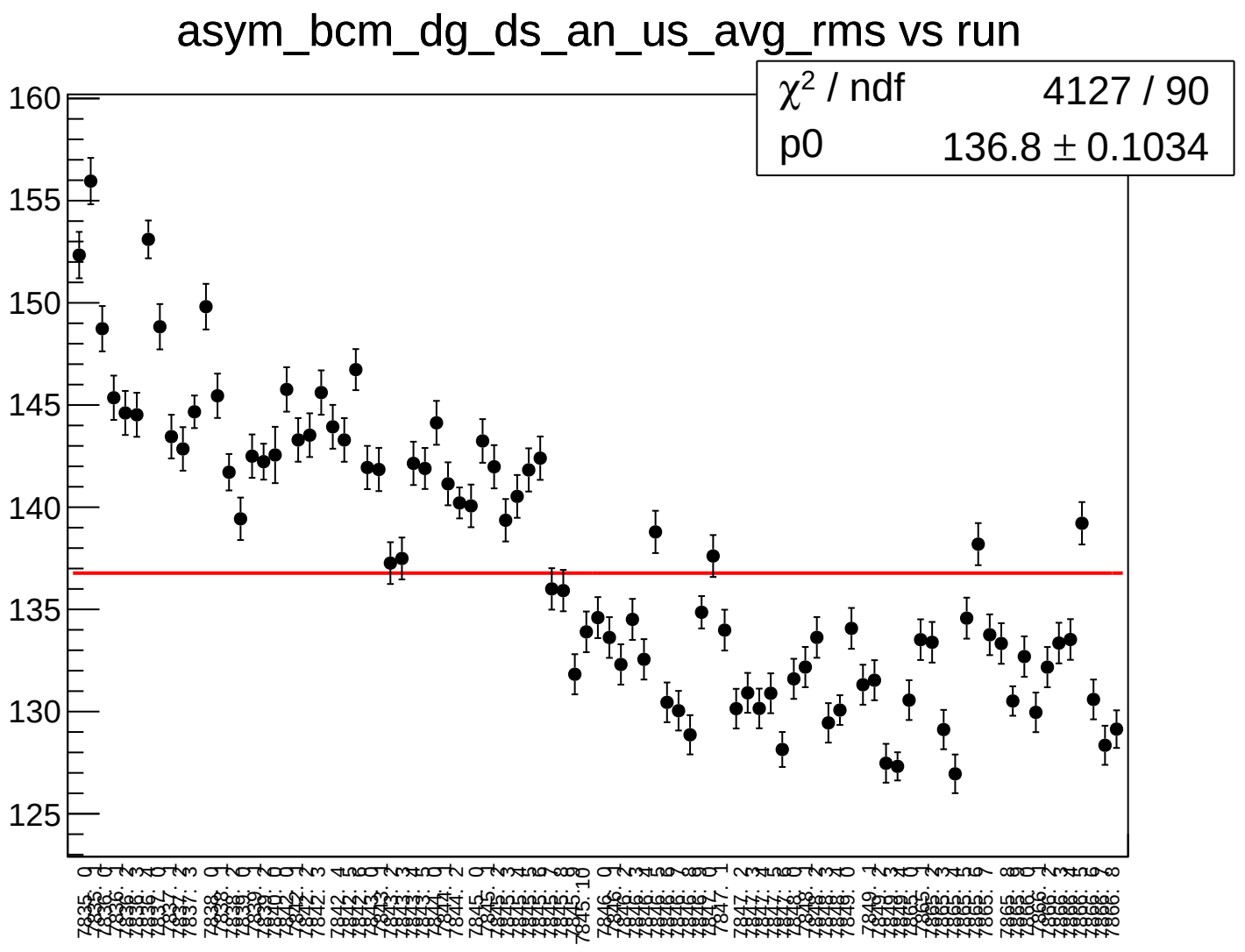

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 104 / 90
p0 11.29 ± 23.2
1000
500
0
−500
−1000
pull
Entries 91
Mean −284.4
Std Dev 0
2
1
0
−1
−2
−3

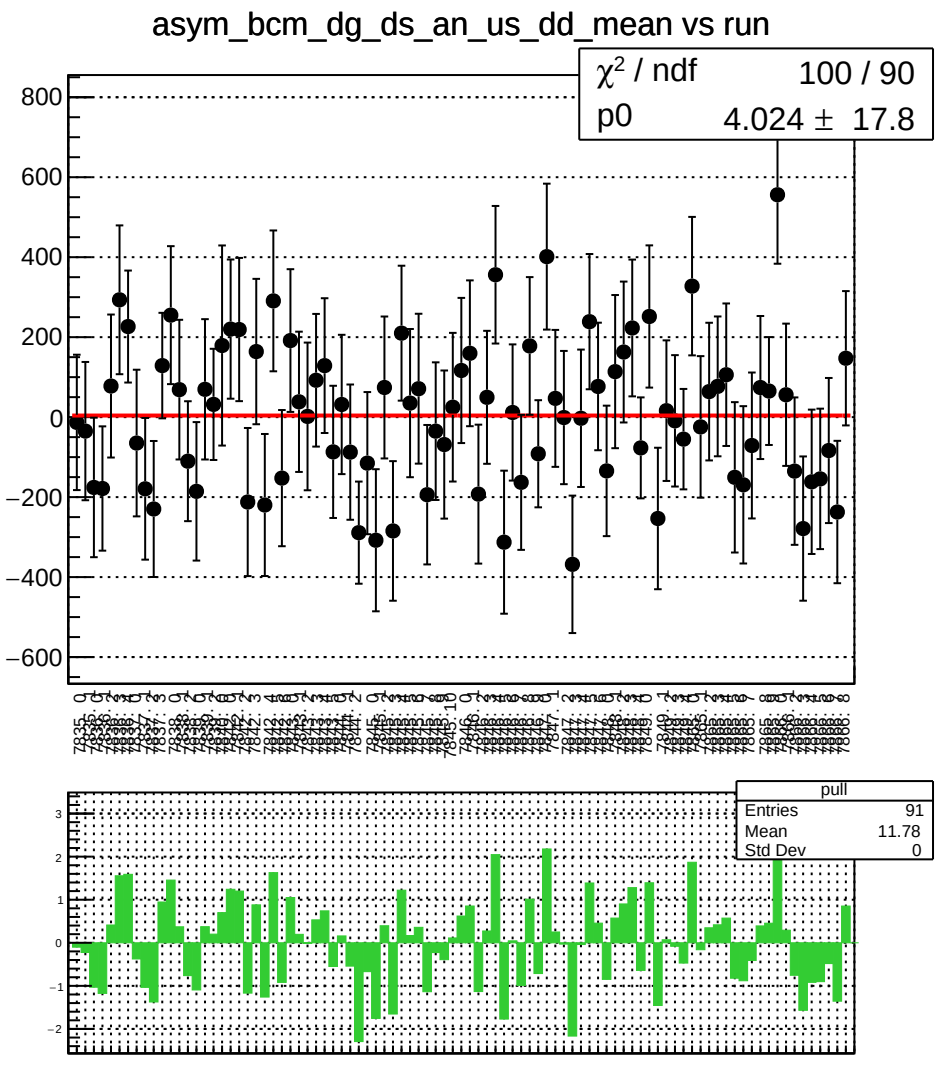

pull1D
Entries 91
Mean 0.01221
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

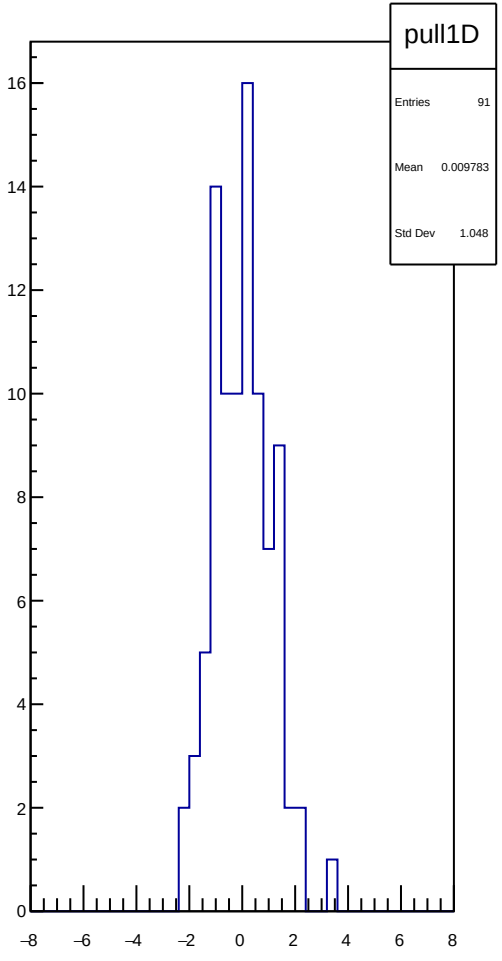
asym_bcm_dg_us_an_us_dd_rms vs run

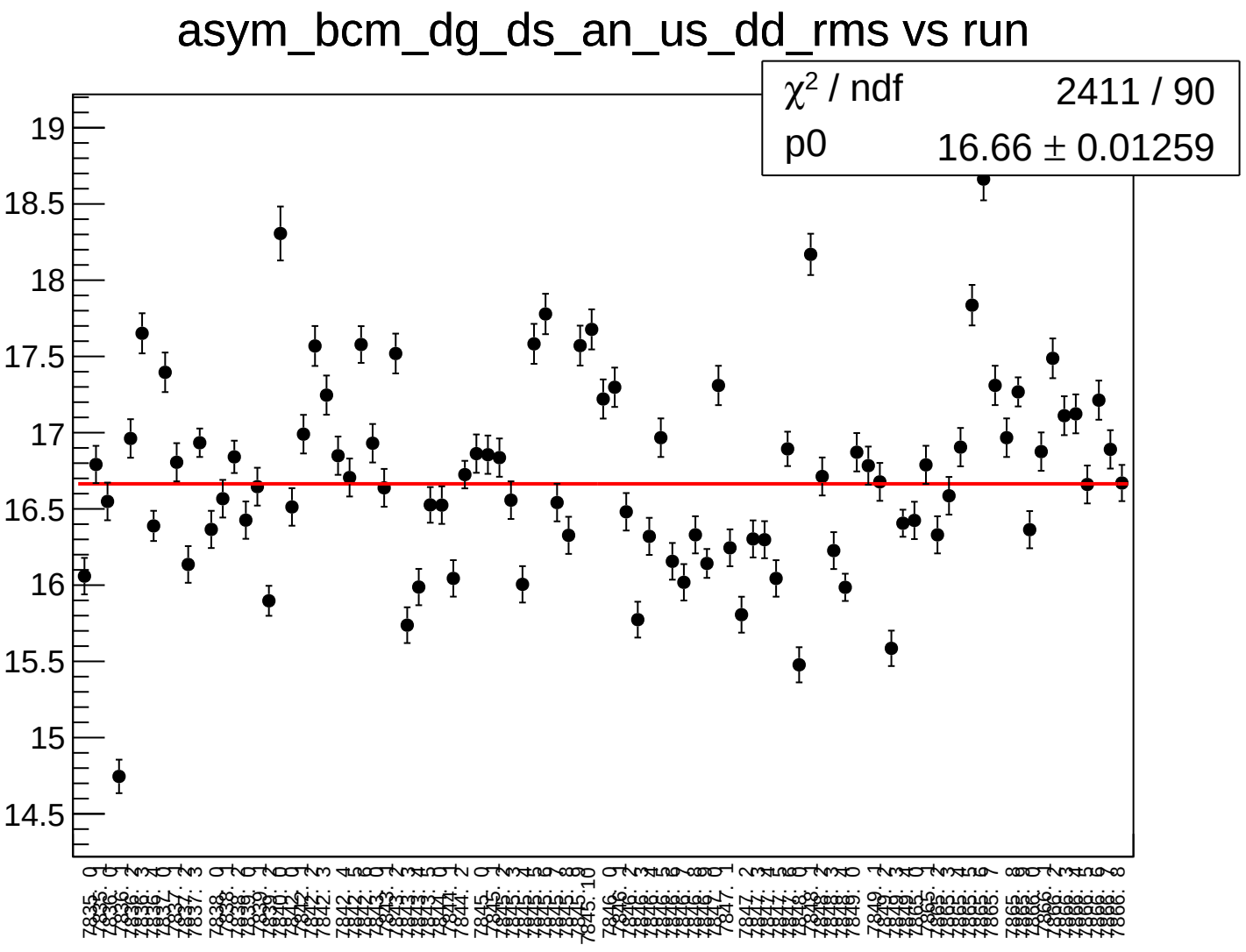


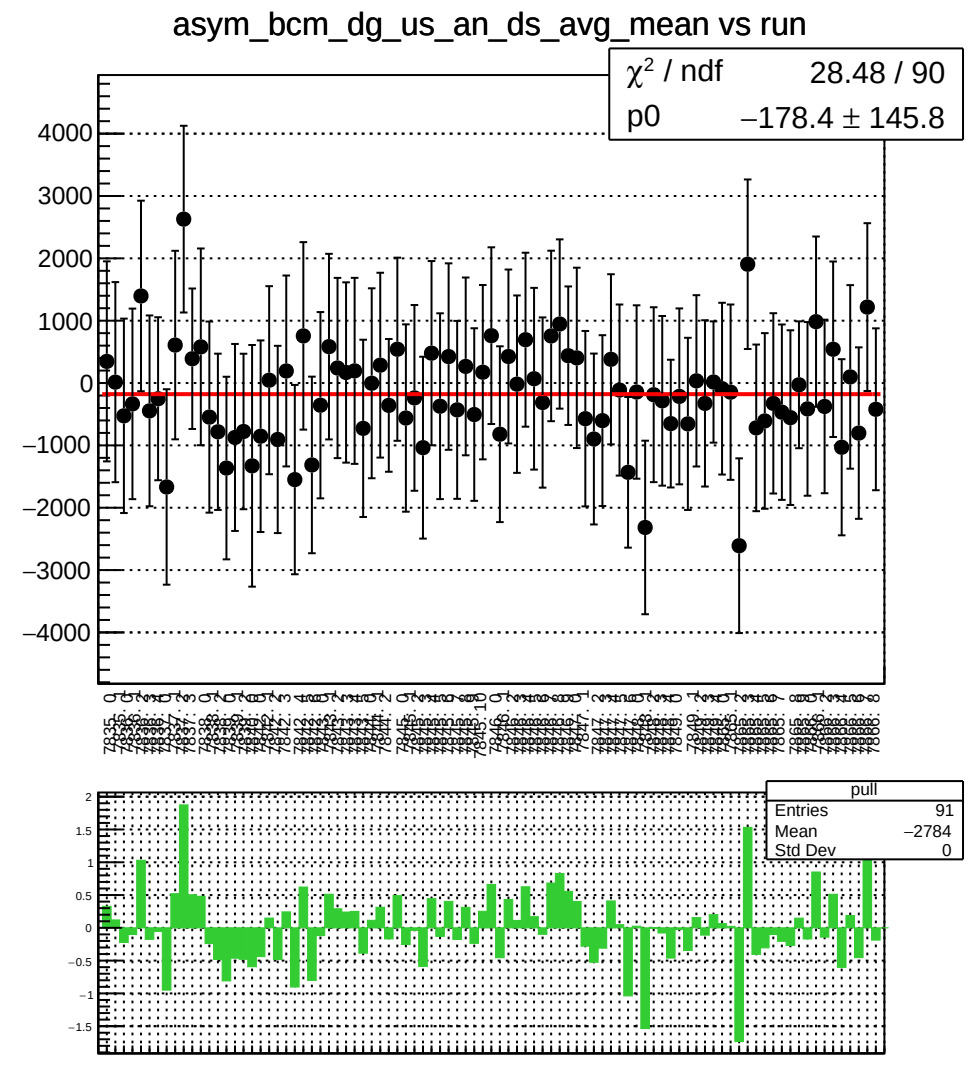

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 24.86 / 90
p0 −192 ± 146.2
pull
Entries 91
Mean 176.7
Std Dev 0
pull1D
Entries 91
Mean −0.001748
Std Dev 0.5227

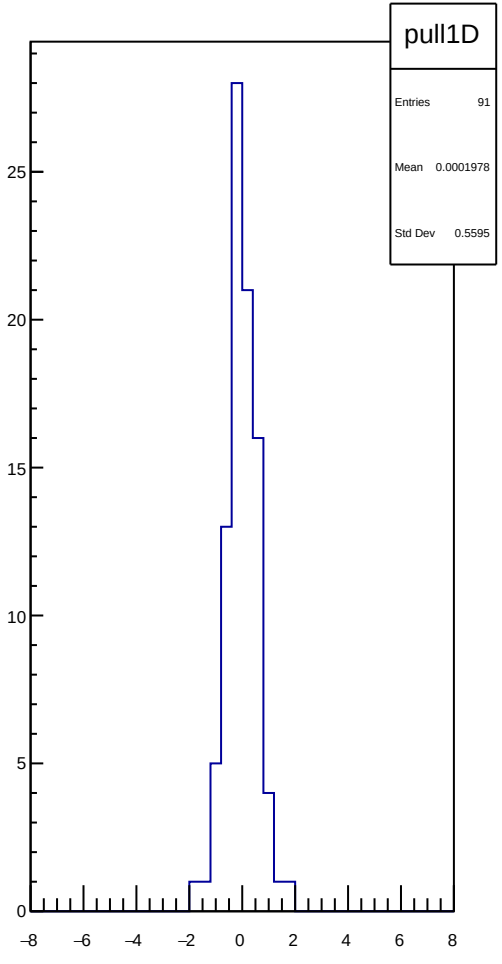

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 4127 / 90
p0 136.8 ± 0.1034
160
155
150
145
140
135
130
125

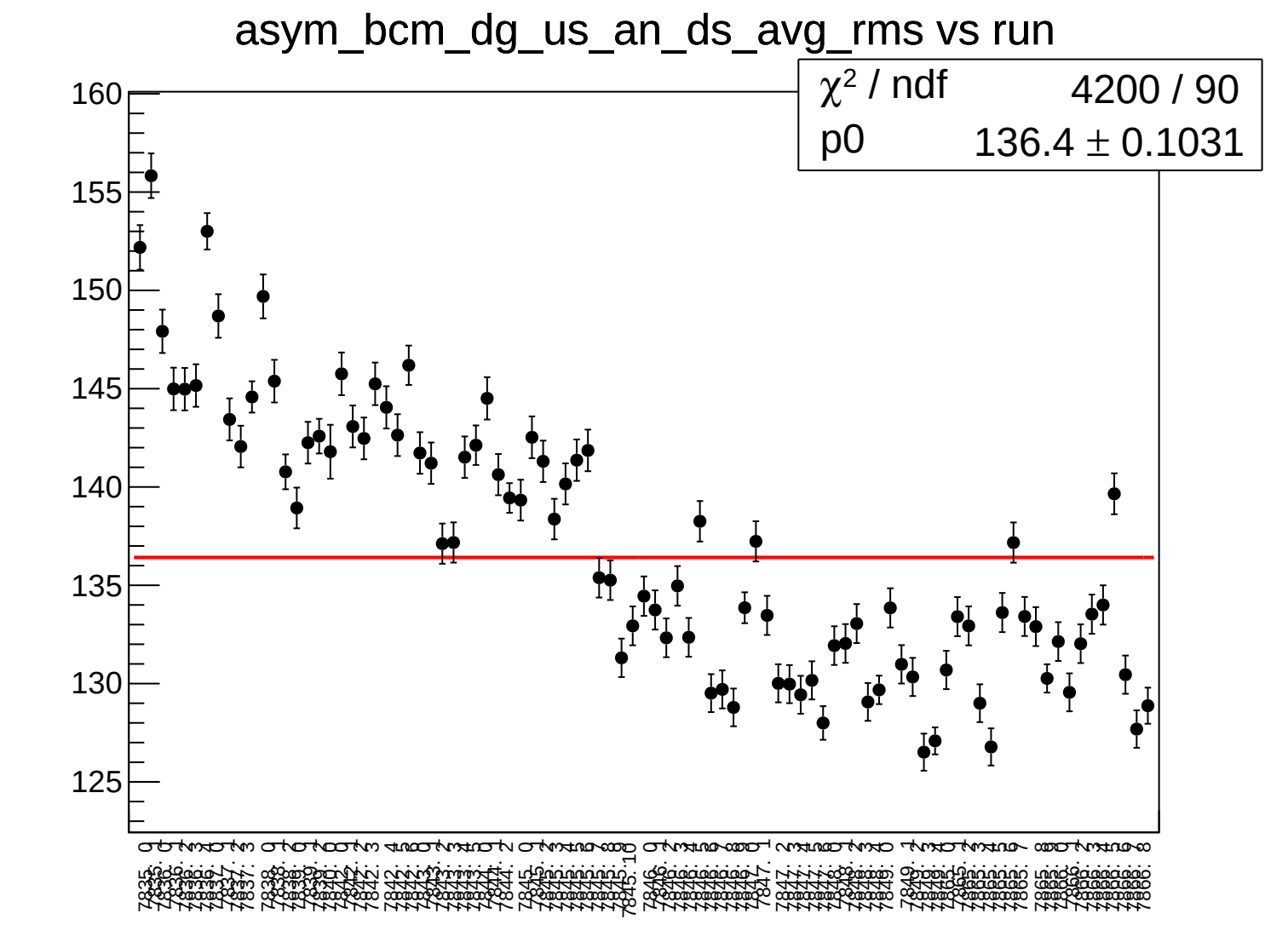

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 100 / 90
p0 4.024 ± 17.8
pull
Entries 91
Mean 11.78
Std Dev 0

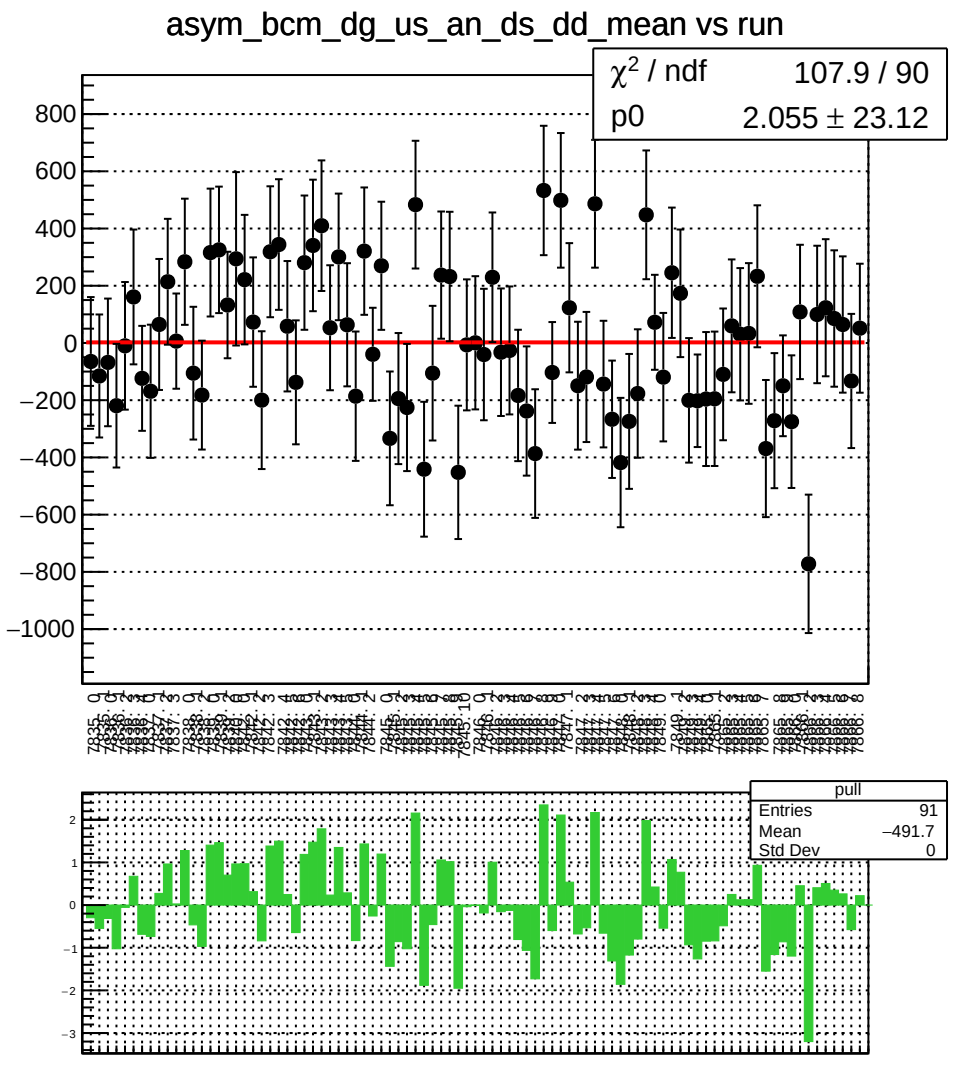

pull1D
Entries 91
Mean 0.009783
Std Dev 1.048

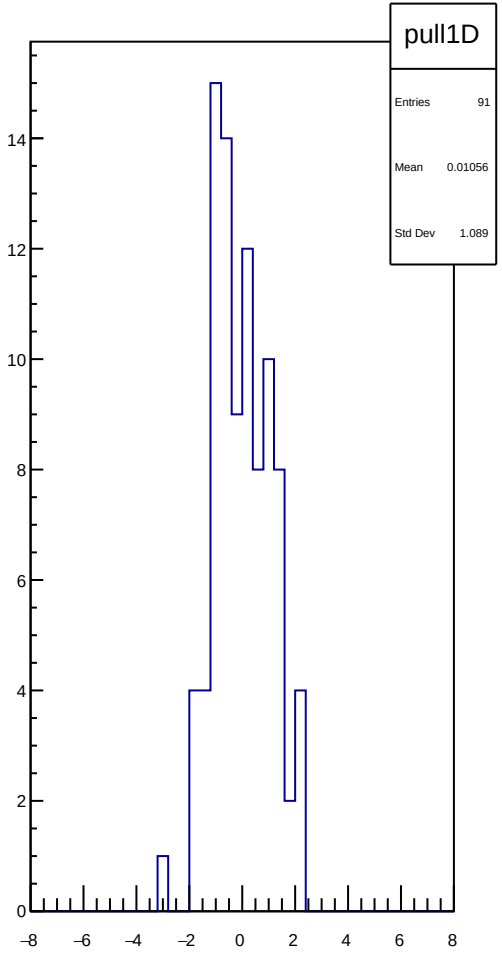

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2411 / 90
p0 16.66 ± 0.01259
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5


asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 28.48 / 90
p0 −178.4 ± 145.8
pull
Entries 91
Mean −2784
Std Dev 0

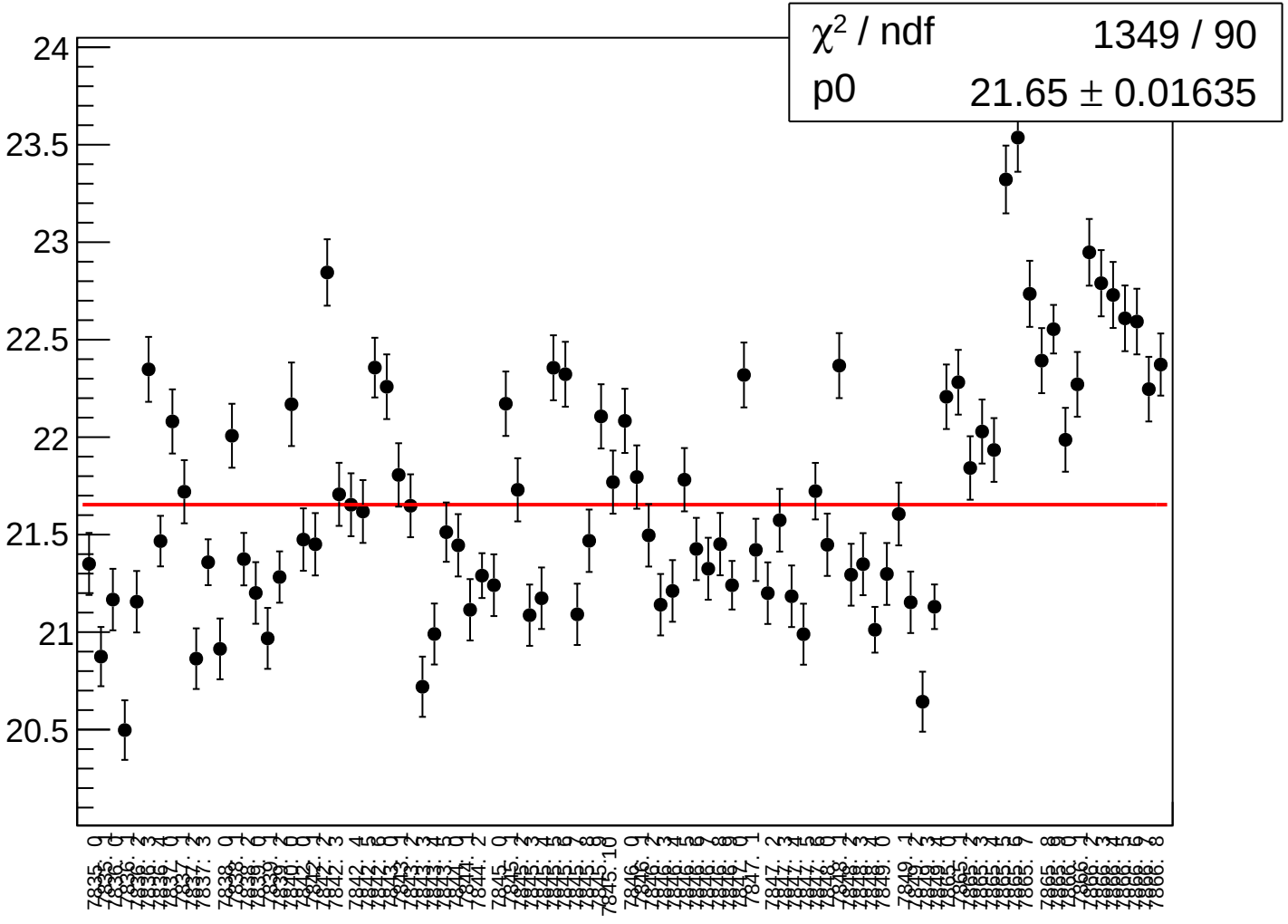

pull1D
Entries 91
Mean 0.0001978
Std Dev 0.5595

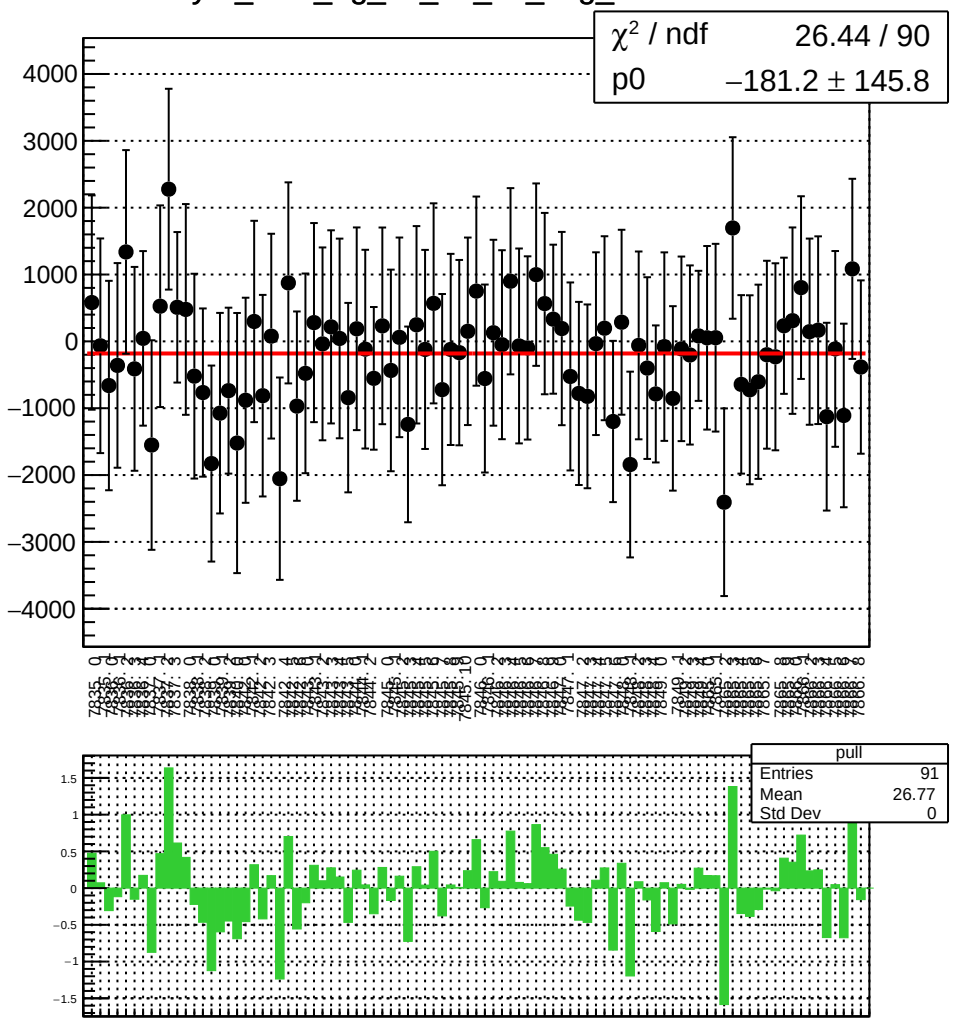

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 4200 / 90
p0 136.4 ± 0.1031
160
155
150
145
140
135
130
125

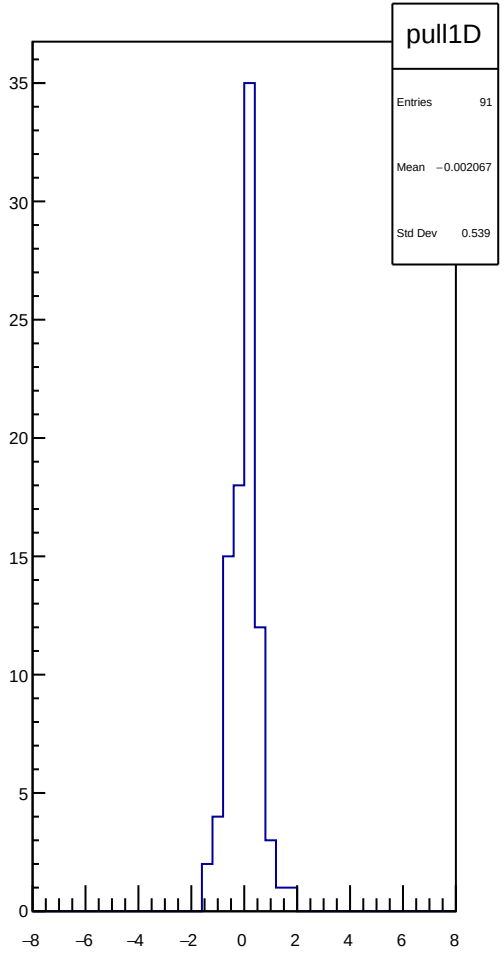

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 107.9 / 90
p0 2.055 ± 23.12
pull
Entries 91
Mean −491.7
Std Dev 0

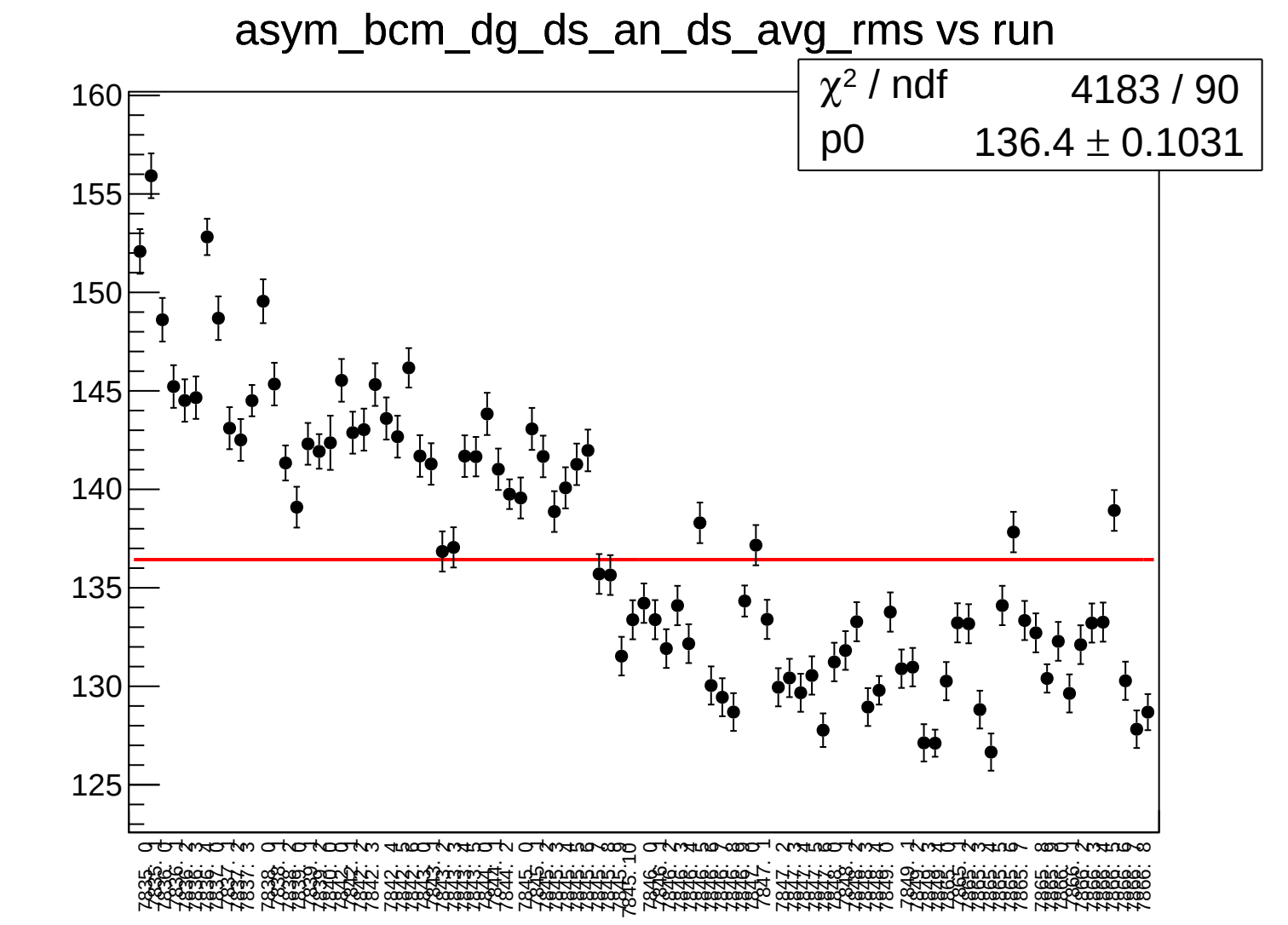

pull1D
Entries 91
Mean 0.01056
Std Dev 1.089

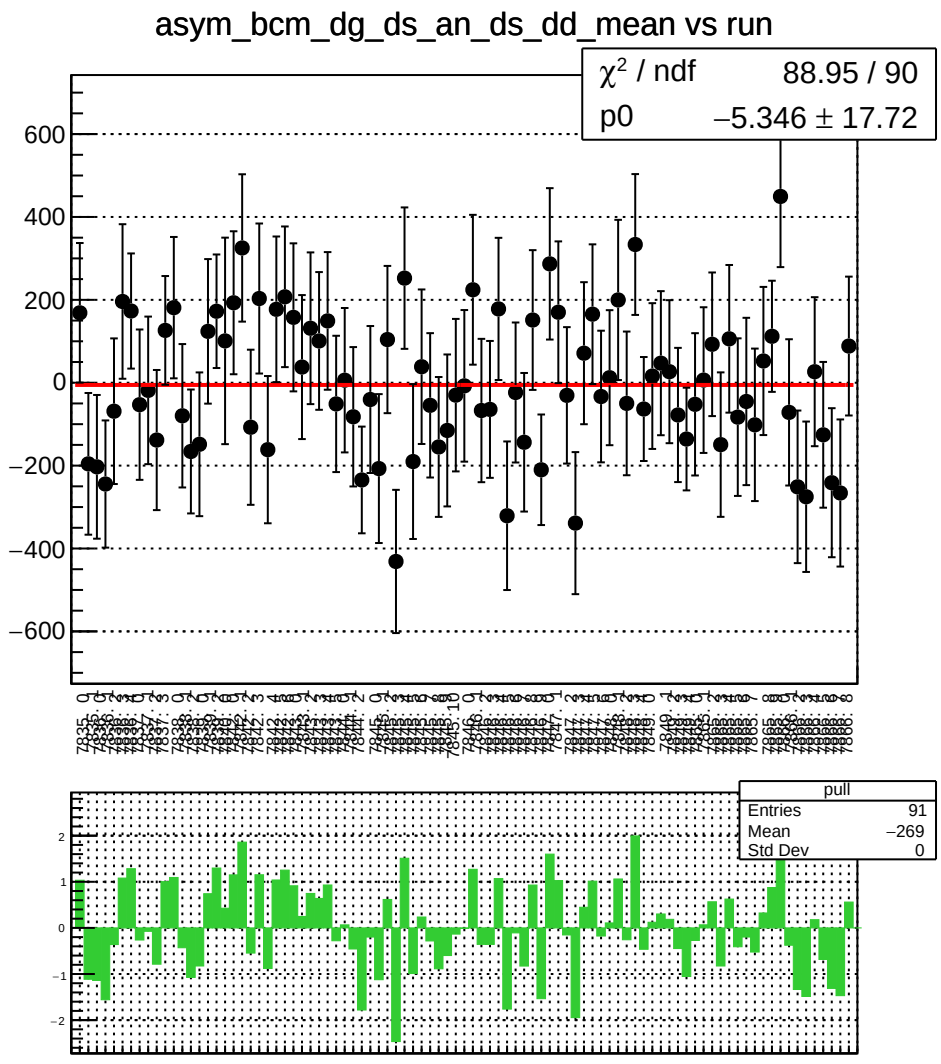
asym_bcm_dg_us_an_ds_dd_rms vs run

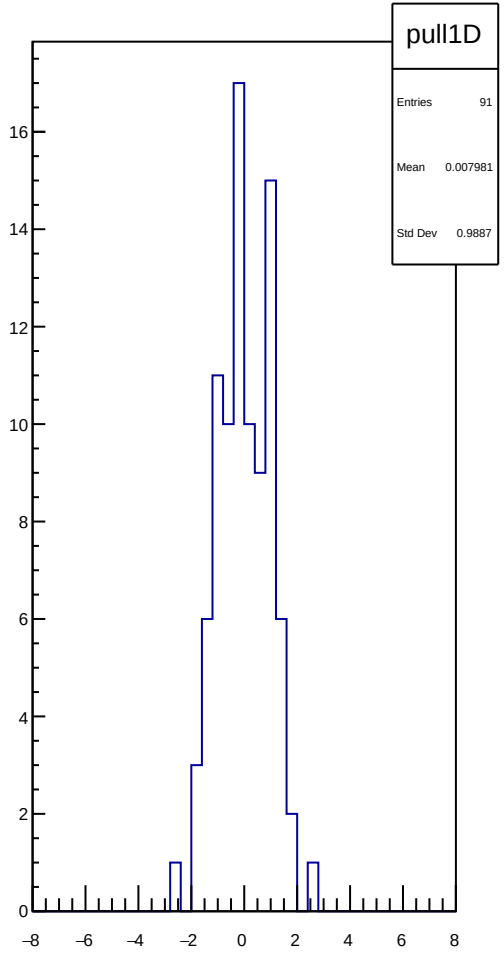


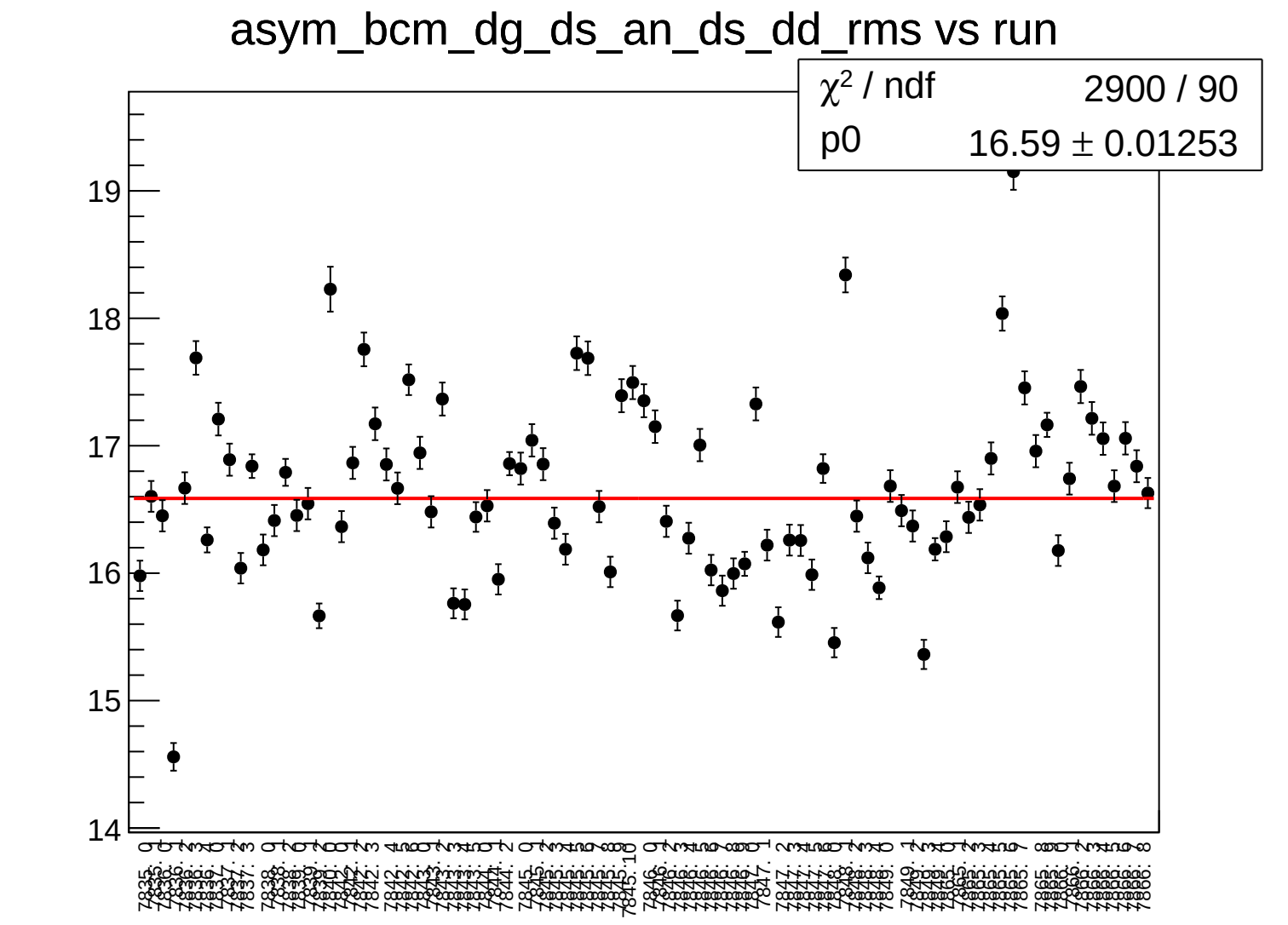

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 26.44 / 90
p0 −181.2 ± 145.8
pull
Entries 91
Mean 26.77
Std Dev 0

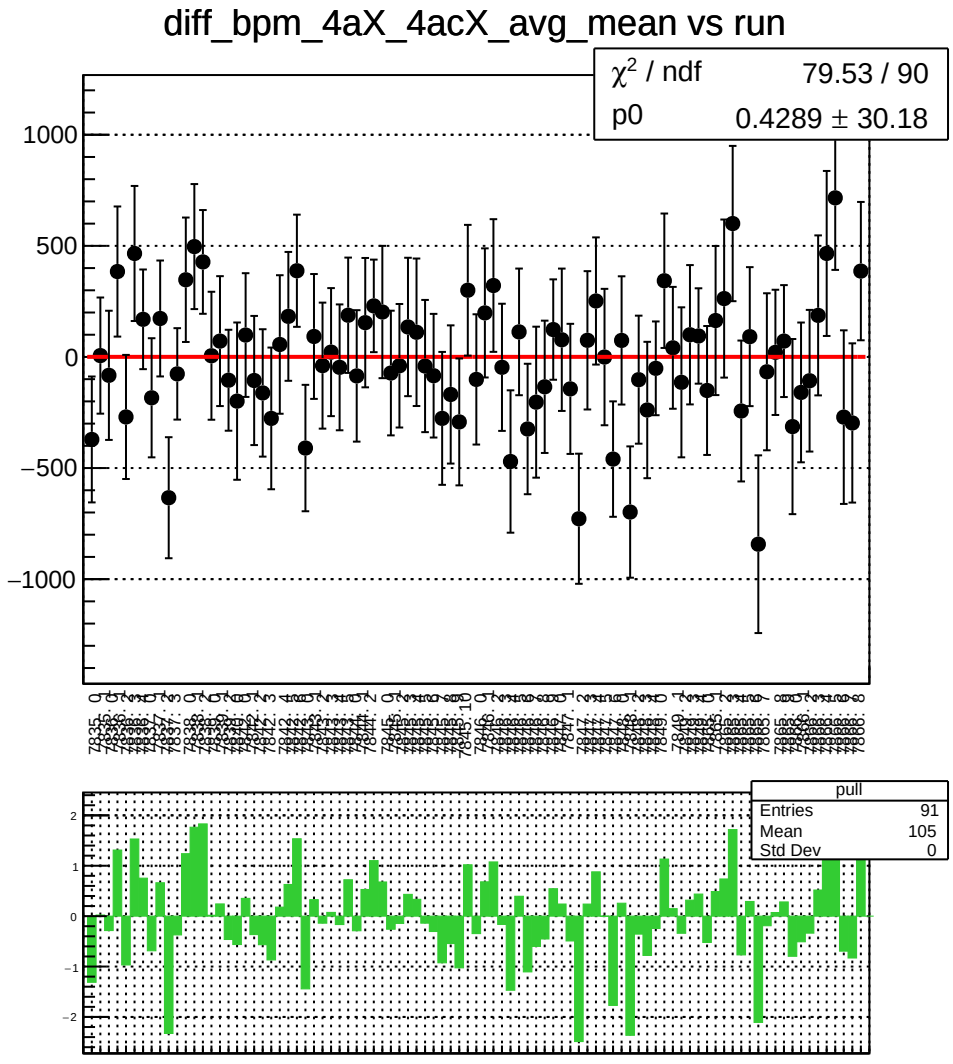

pull1D
Entries 91
Mean −0.002067
Std Dev 0.539

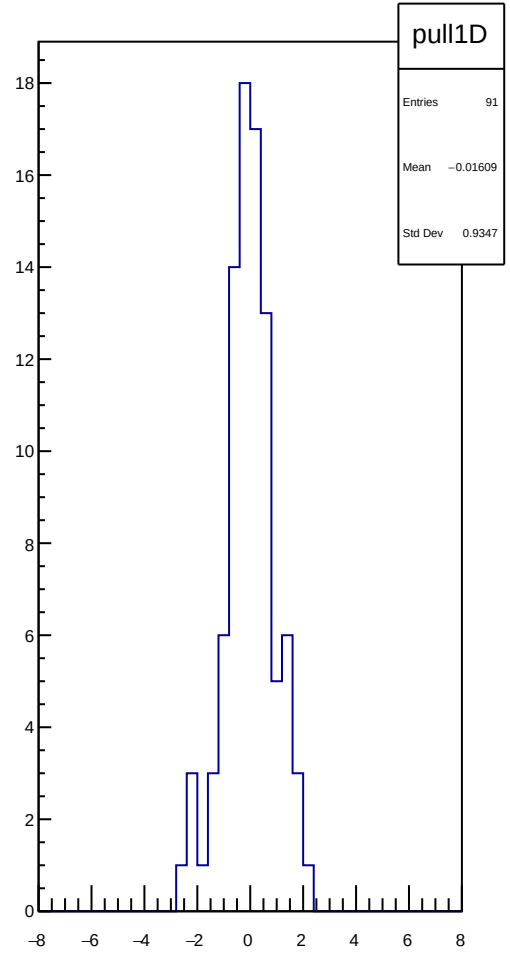

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 4183 / 90
p0 136.4 ± 0.1031
160
155
150
145
140
135
130
125

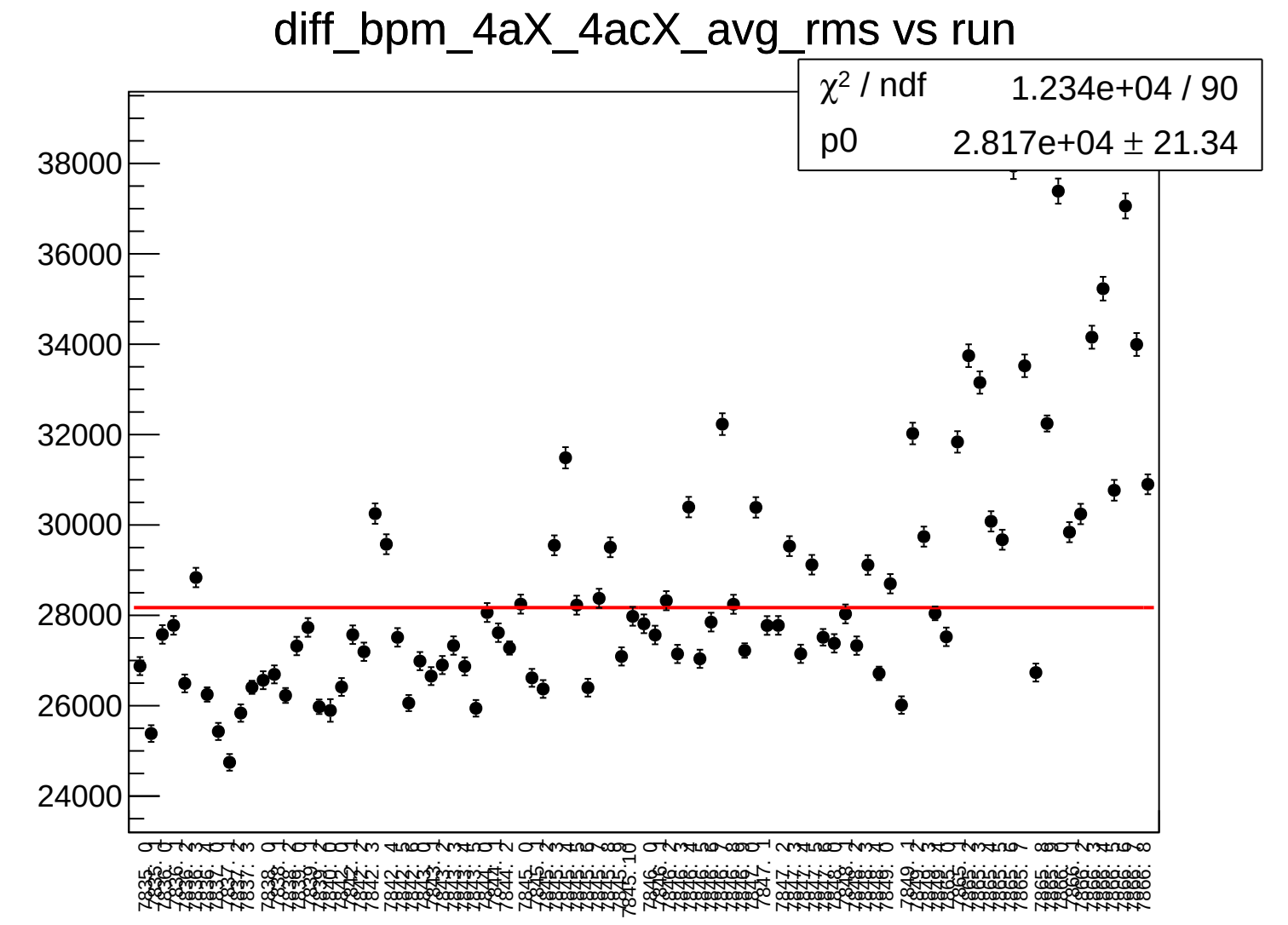

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 88.95 / 90
p0 −5.346 ± 17.72
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −269
Std Dev 0
2
1
0
−1
−2

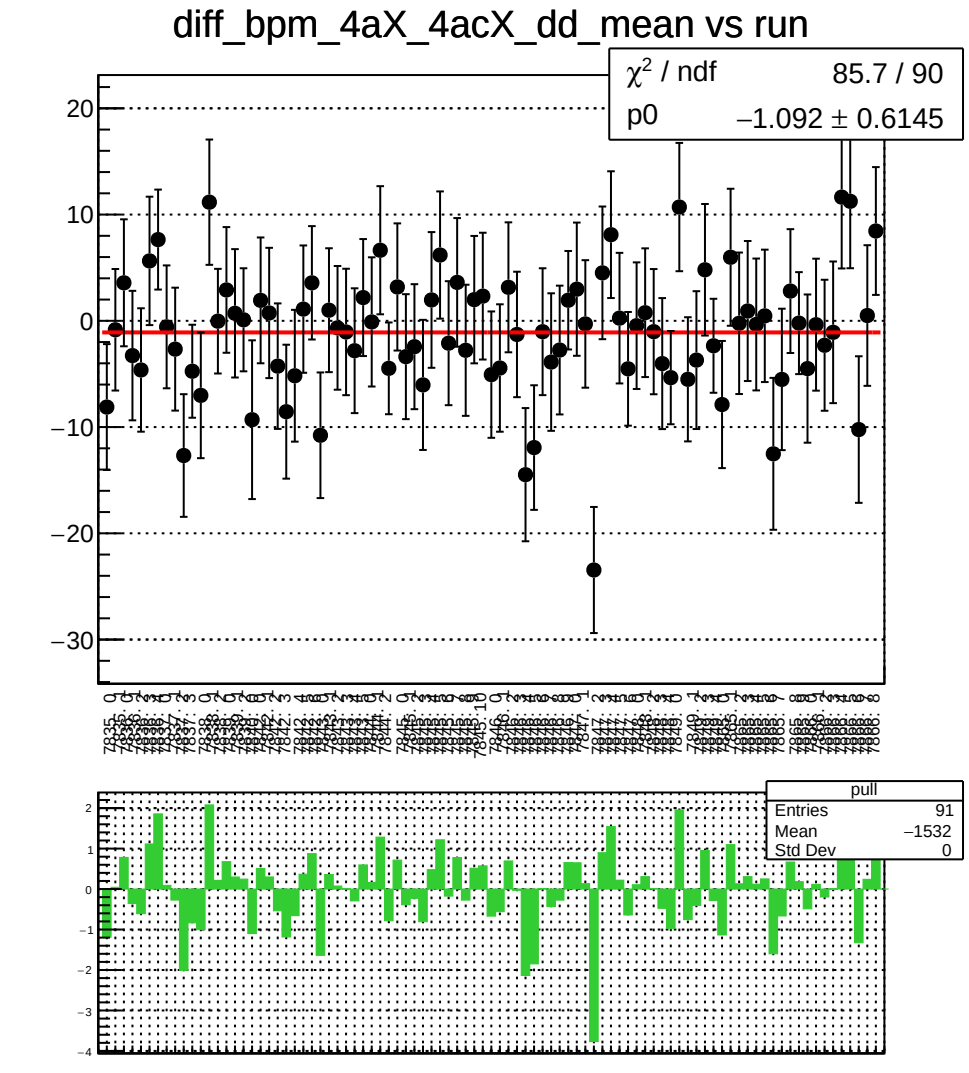

pull1D
Entries 91
Mean 0.007981
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

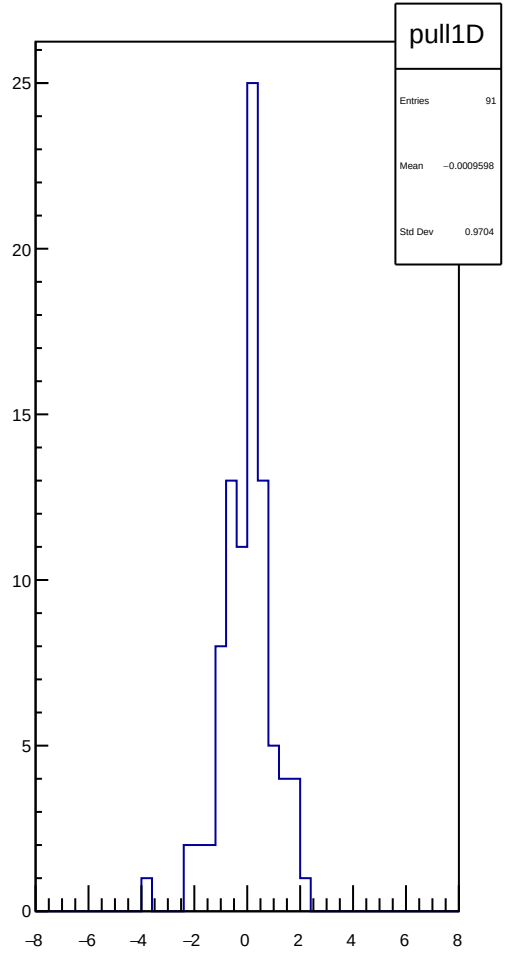

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2900 / 90
p0 16.59 ± 0.01253
19
18
17
16
15
14

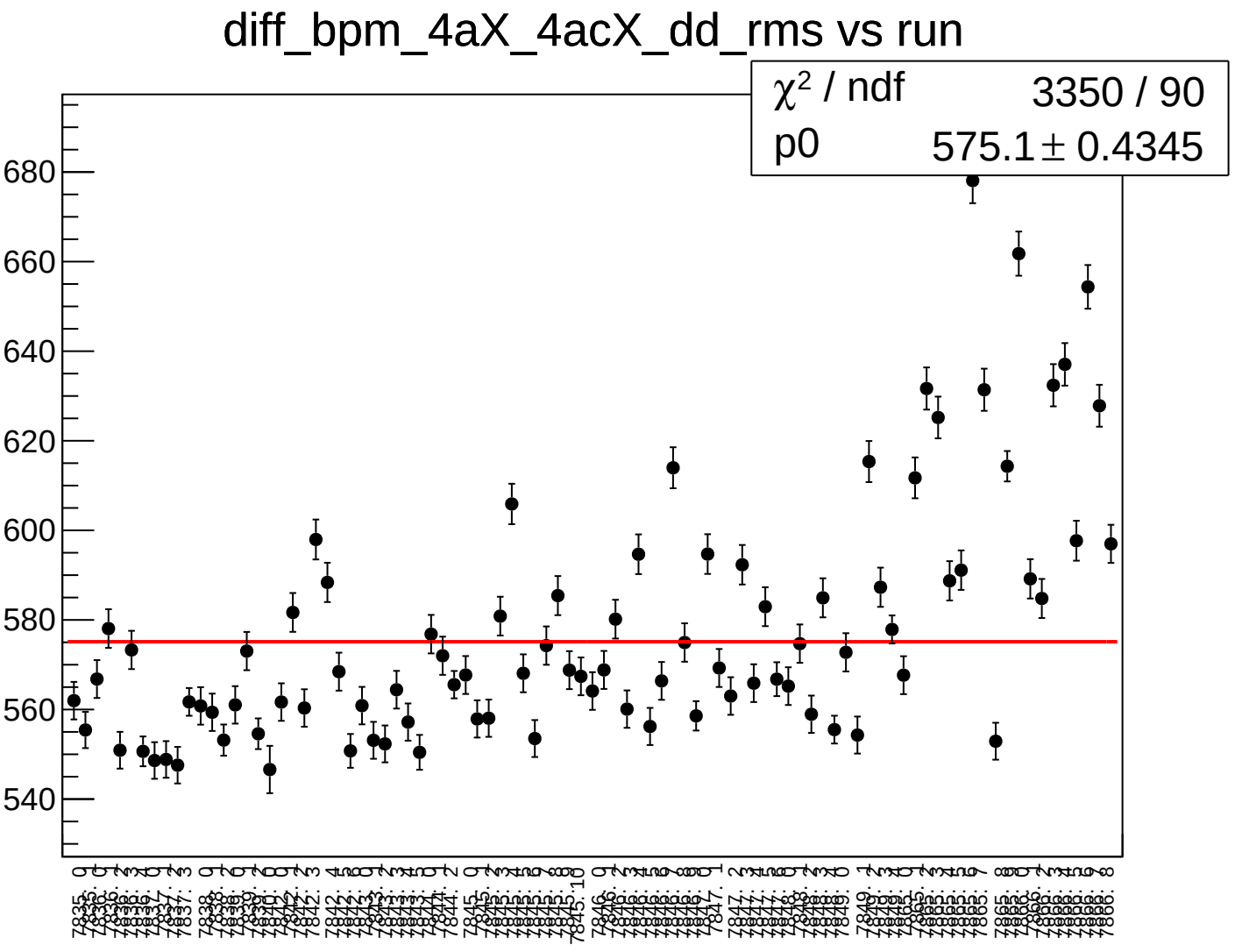

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 79.53 / 90
p0 0.4289 ± 30.18
1000
500
0
−500
−1000
pull
Entries 91
Mean 105
Std Dev 0
2
1
0
−1
−2

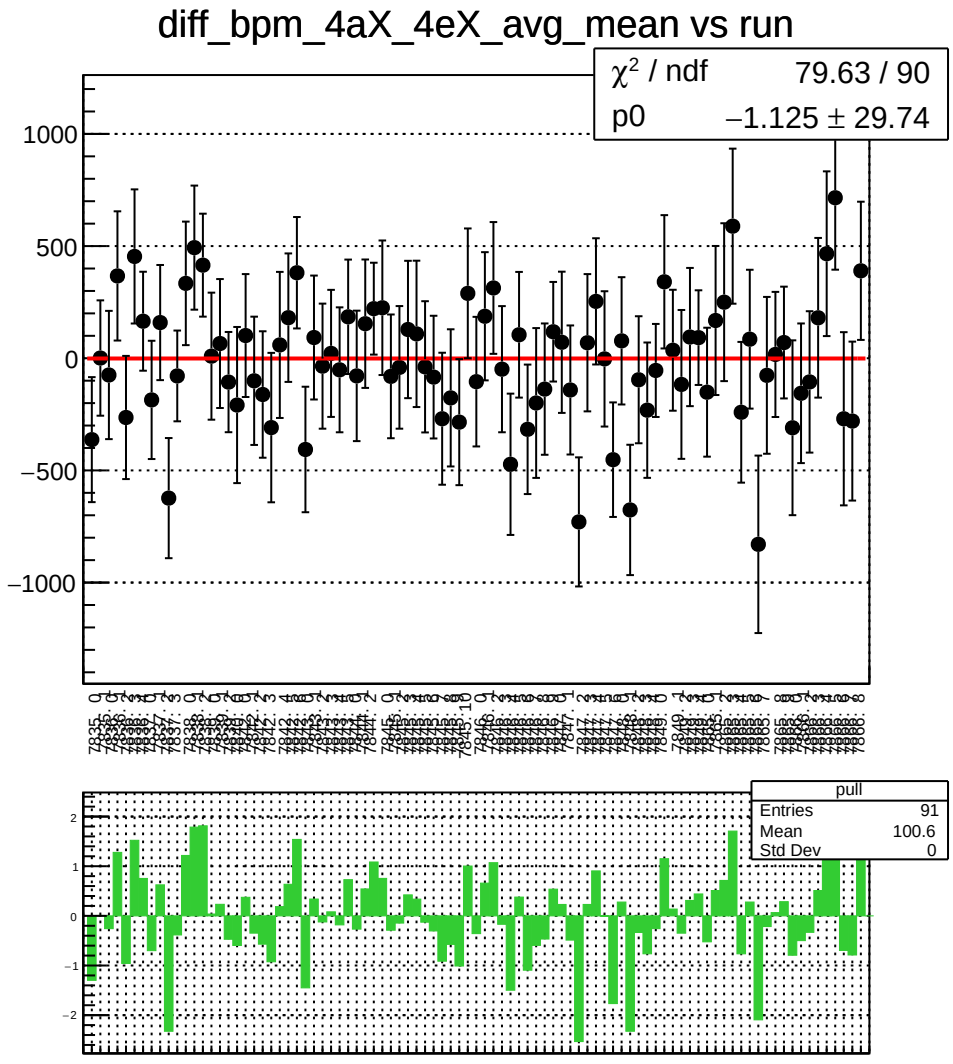

pull1D
Entries 91
Mean −0.01609
Std Dev 0.9347
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

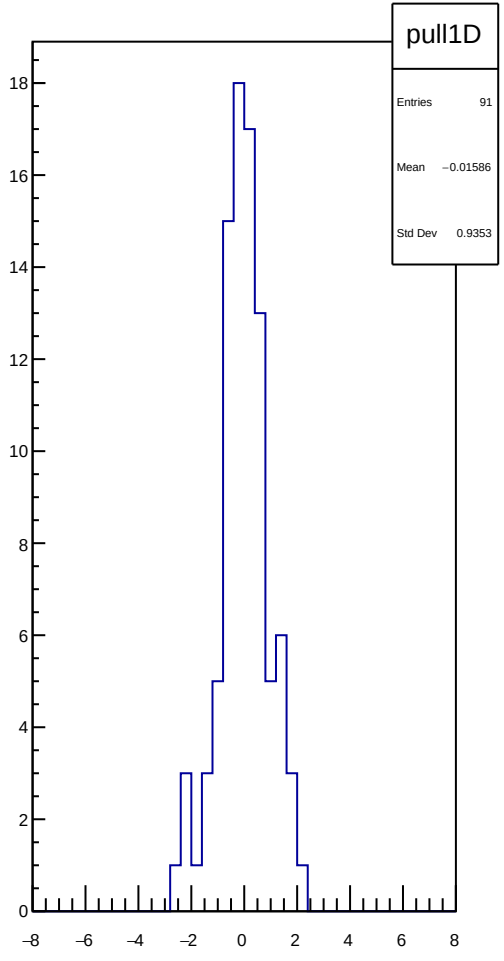

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.234e+04 / 90
p0 2.817e+04 ± 21.34
38000
36000
34000
32000
30000
28000
26000
24000

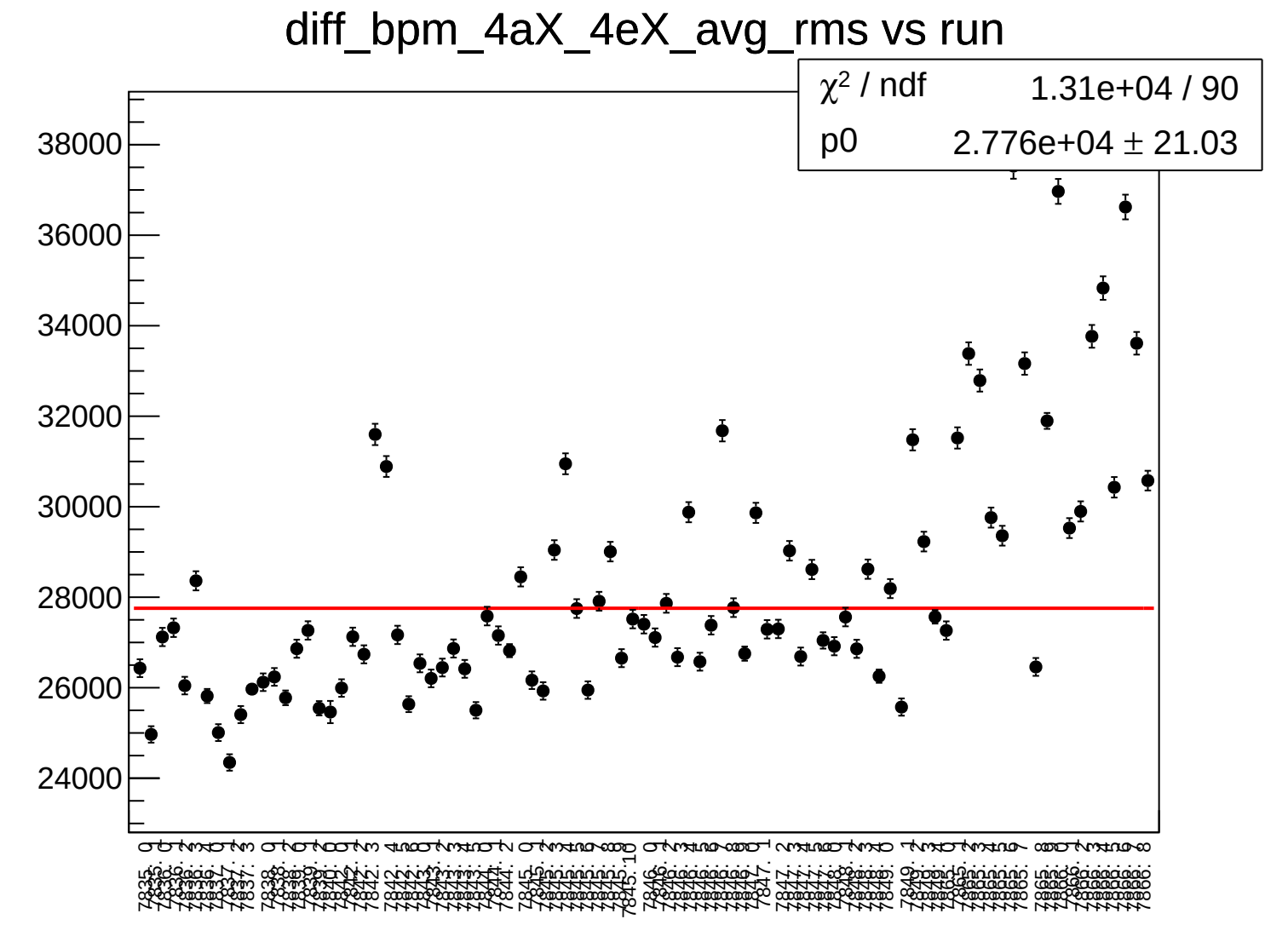

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 85.7 / 90
p0 −1.092 ± 0.6145
pull
Entries 91
Mean −1532
Std Dev 0

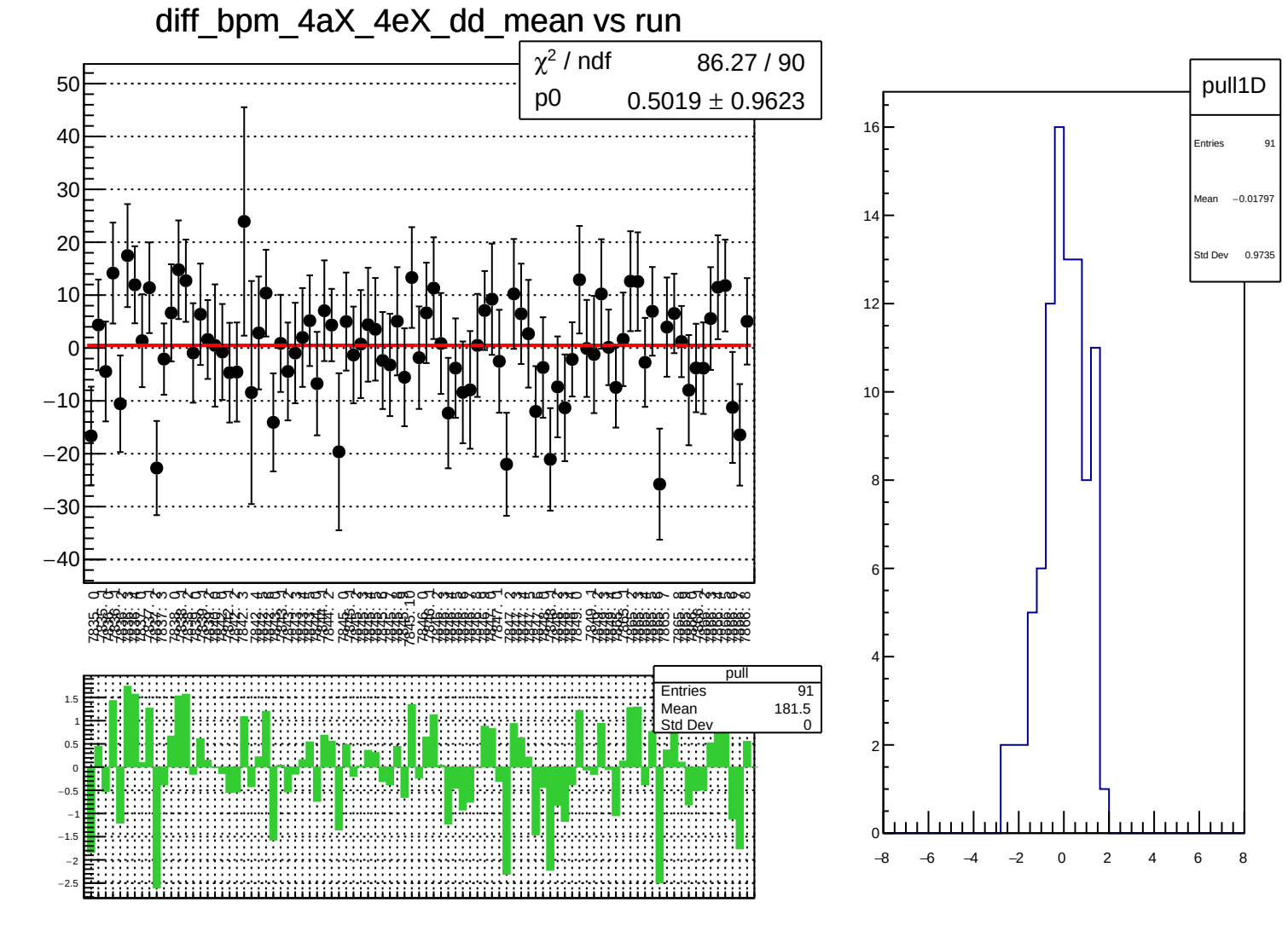

pull1D
Entries 91
Mean −0.0009598
Std Dev 0.9704

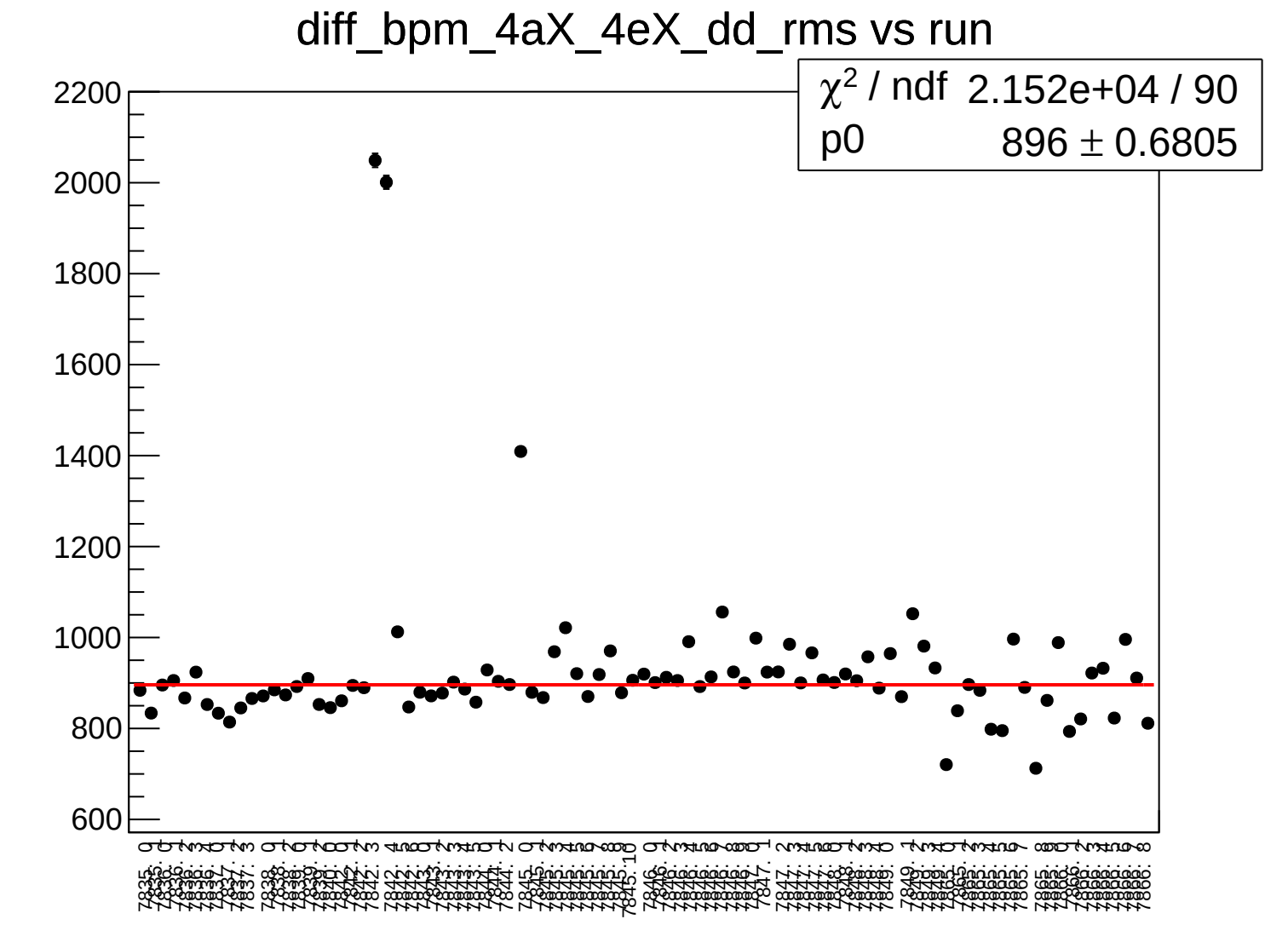

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 3350 / 90
p0 575.1 ± 0.4345
680
660
640
620
600
580
560
540

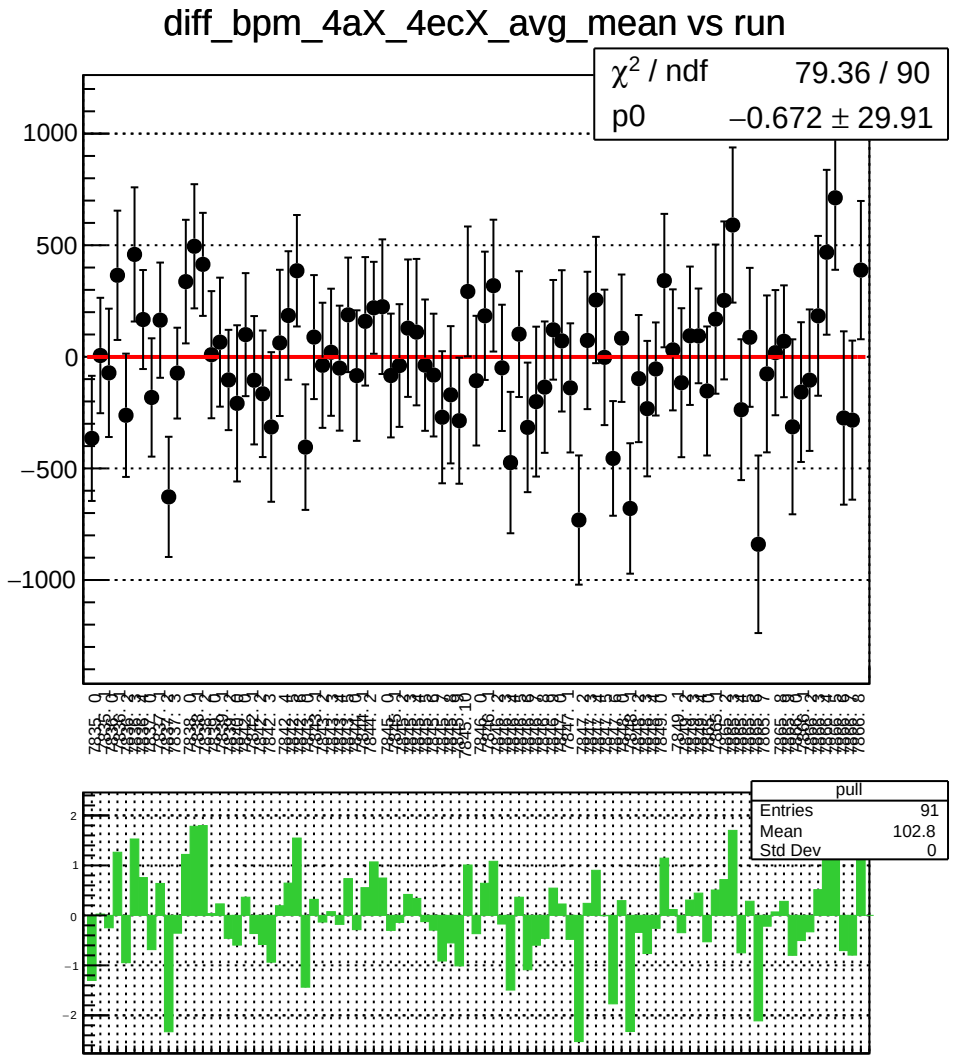

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 79.63 / 90
p0 −1.125 ± 29.74
1000
500
0
−500
−1000
pull
Entries 91
Mean 100.6
Std Dev 0
2
1
0
−1
−2

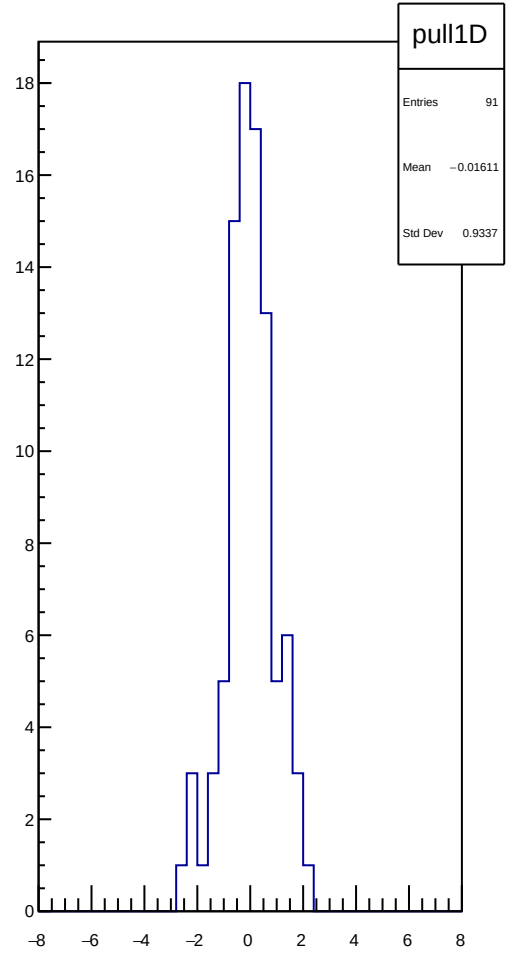

pull1D
Entries 91
Mean −0.01586
Std Dev 0.9353
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

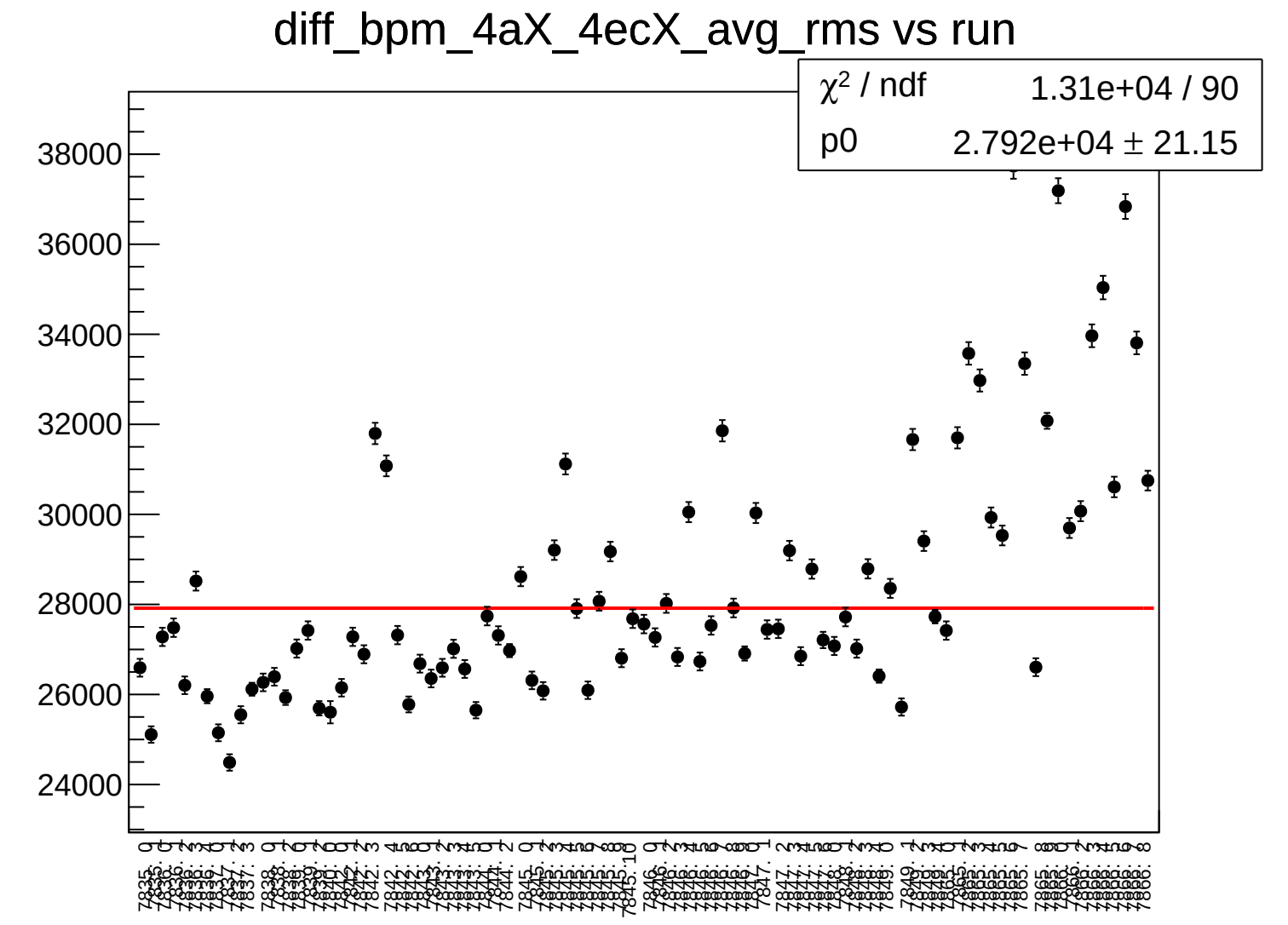

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.31e+04 / 90
p0 2.776e+04 ± 21.03
38000
36000
34000
32000
30000
28000
26000
24000

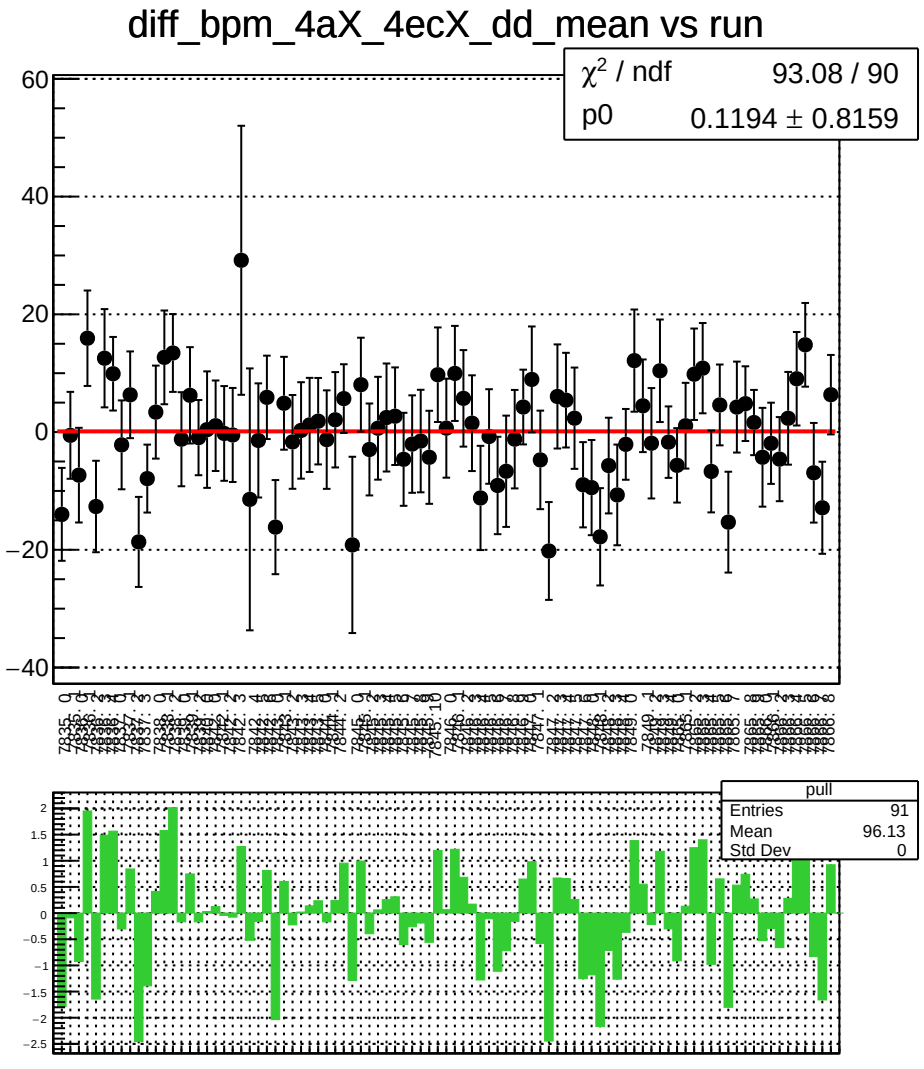

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 86.27 / 90
p0 0.5019 ± 0.9623
pull
Entries 91
Mean 181.5
Std Dev 0
pull1D
Entries 91
Mean −0.01797
Std Dev 0.9735

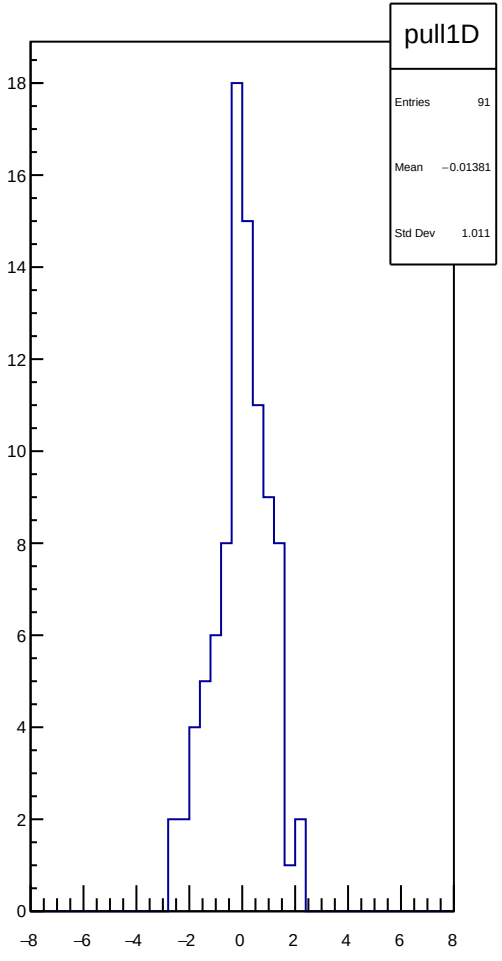

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2.152e+04 / 90
p0 896 ± 0.6805
2200
2000
1800
1600
1400
1200
1000
800
600

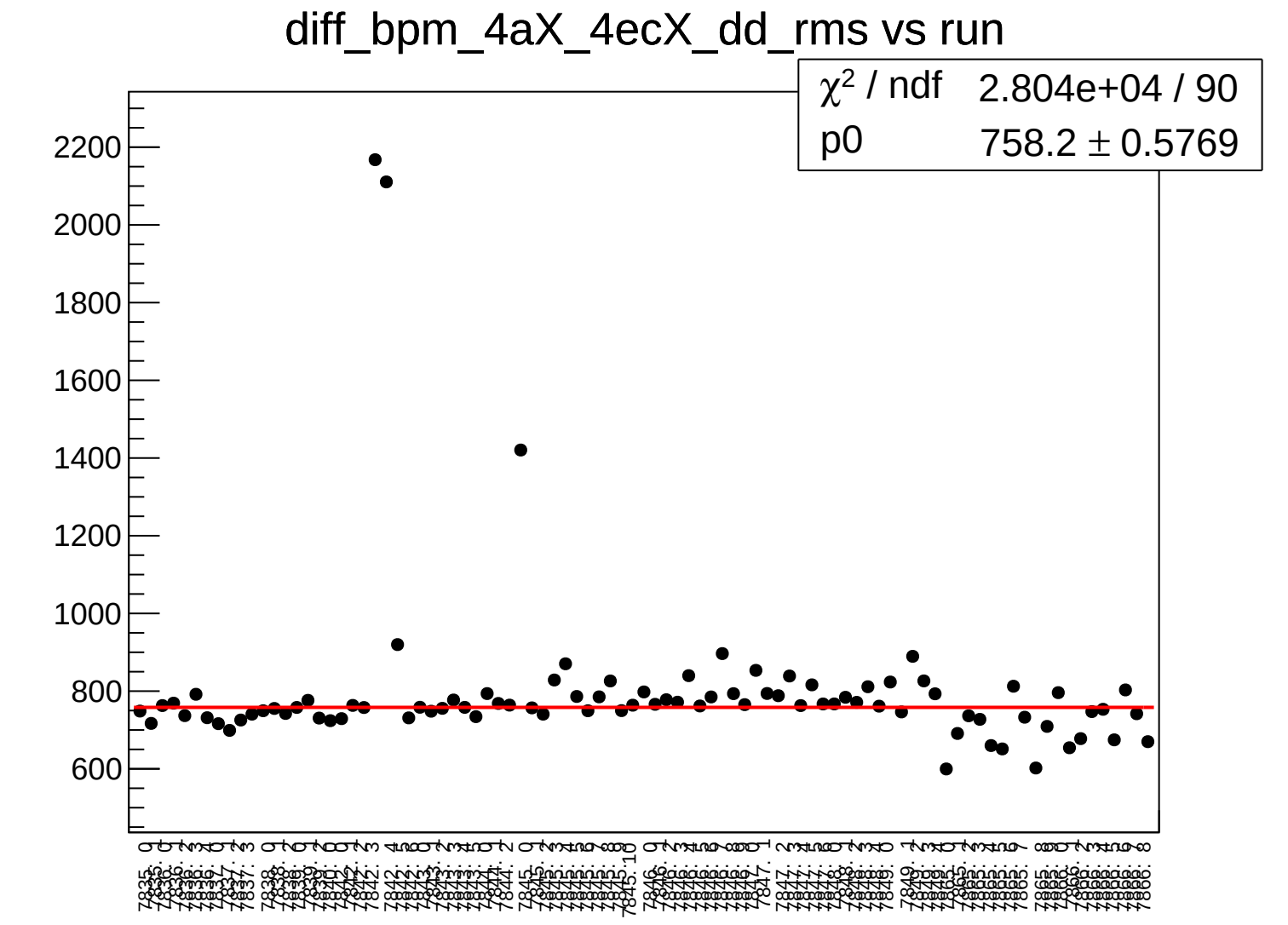

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 79.36 / 90
p0 −0.672 ± 29.91
1000
500
0
−500
−1000
pull
Entries 91
Mean 102.8
Std Dev 0
2
1
0
−1
−2

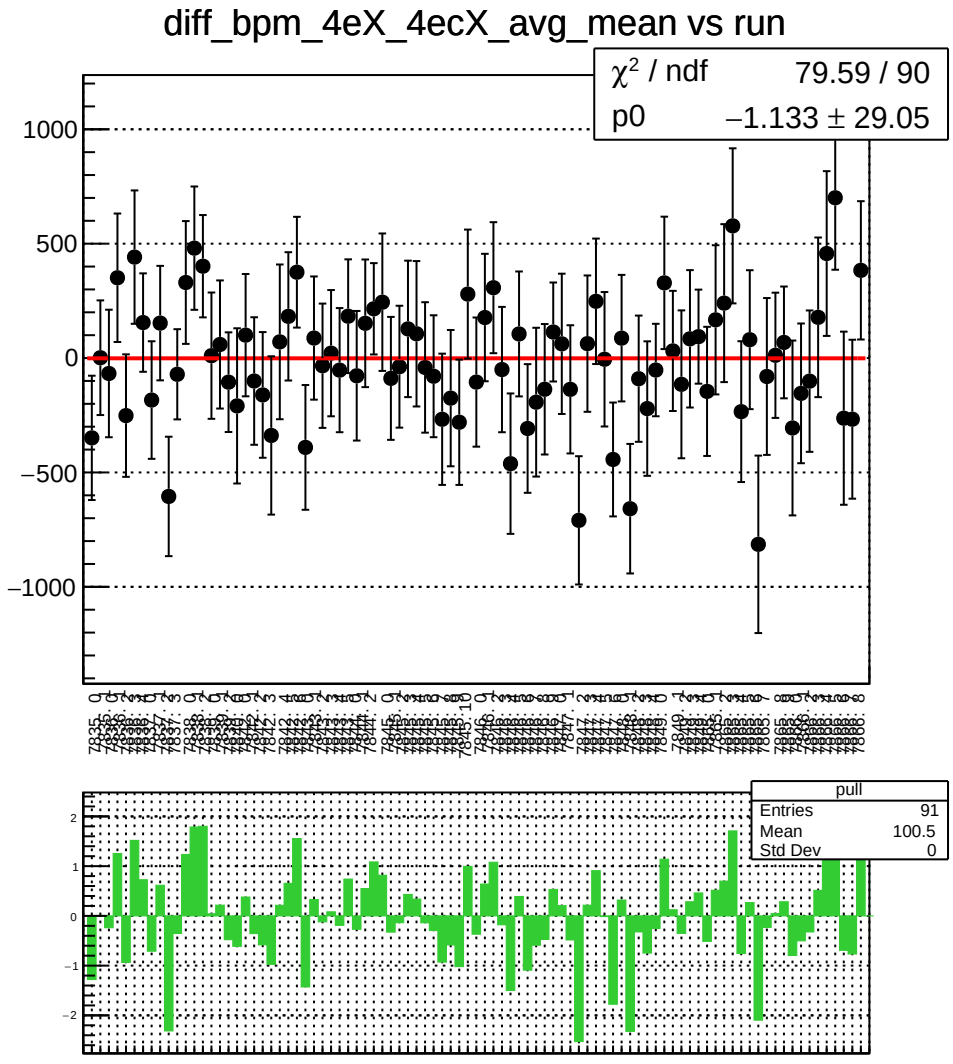

pull1D
Entries 91
Mean −0.01611
Std Dev 0.9337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

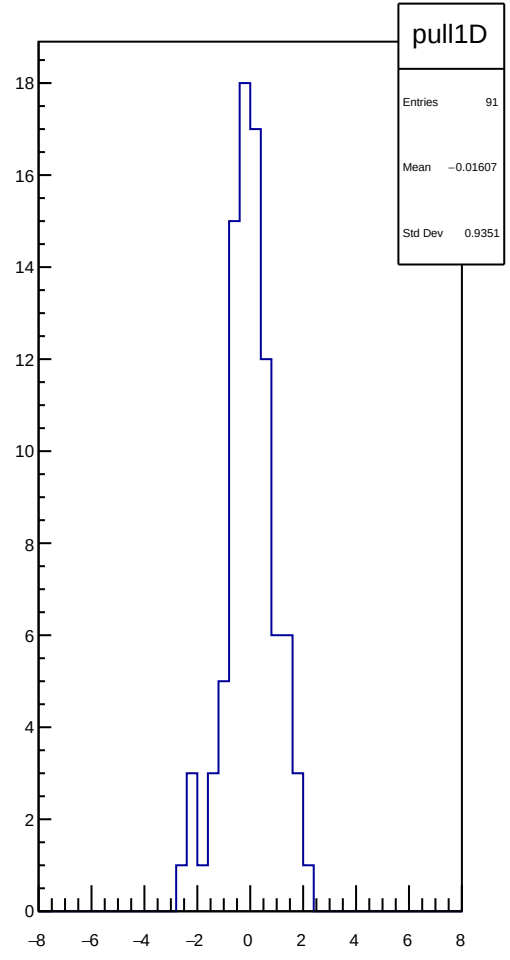

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.31e+04 / 90
p0 2.792e+04 ± 21.15
38000
36000
34000
32000
30000
28000
26000
24000

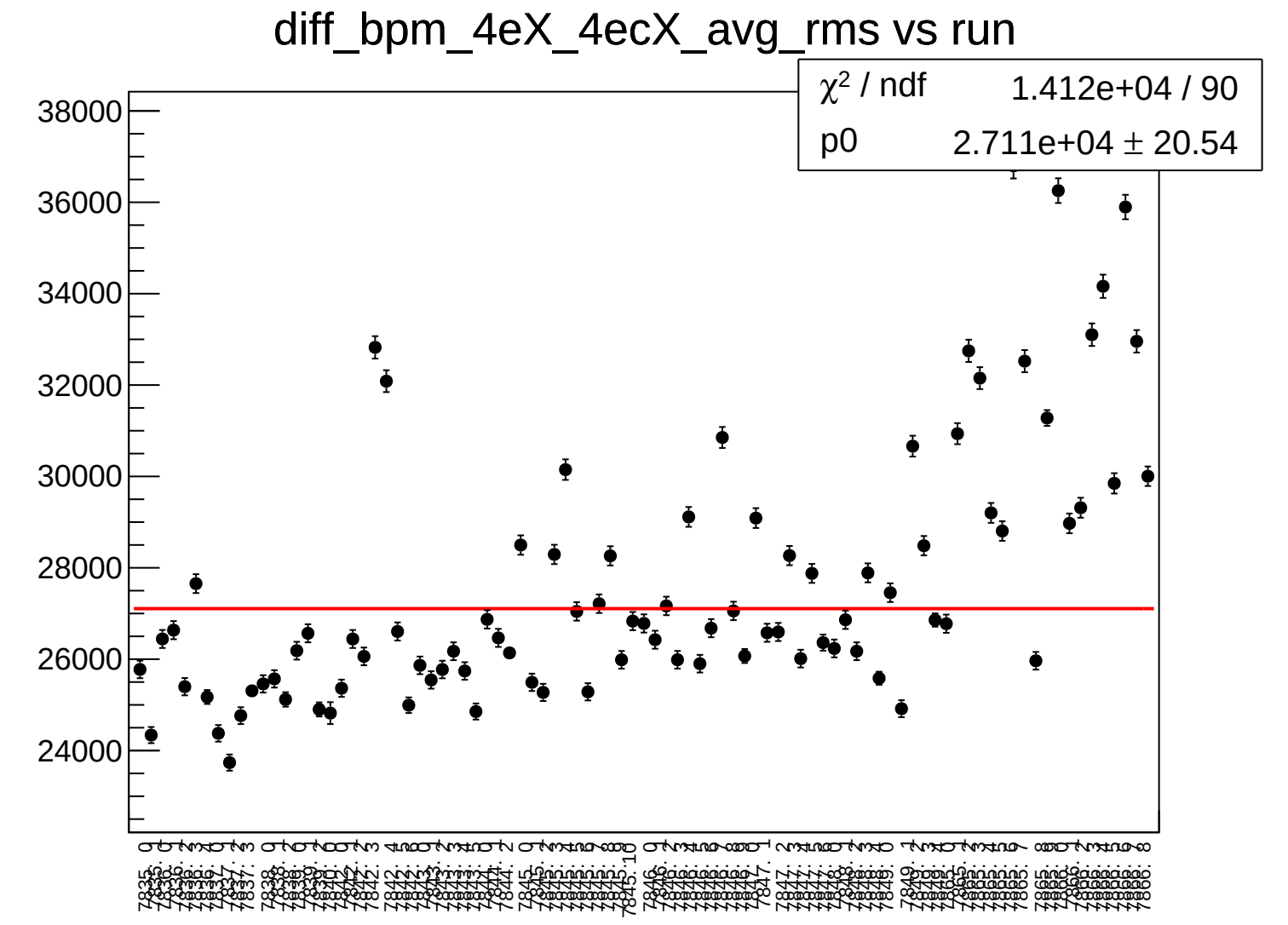

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 93.08 / 90
p0 0.1194 ± 0.8159
pull
Entries 91
Mean 96.13
Std Dev 0

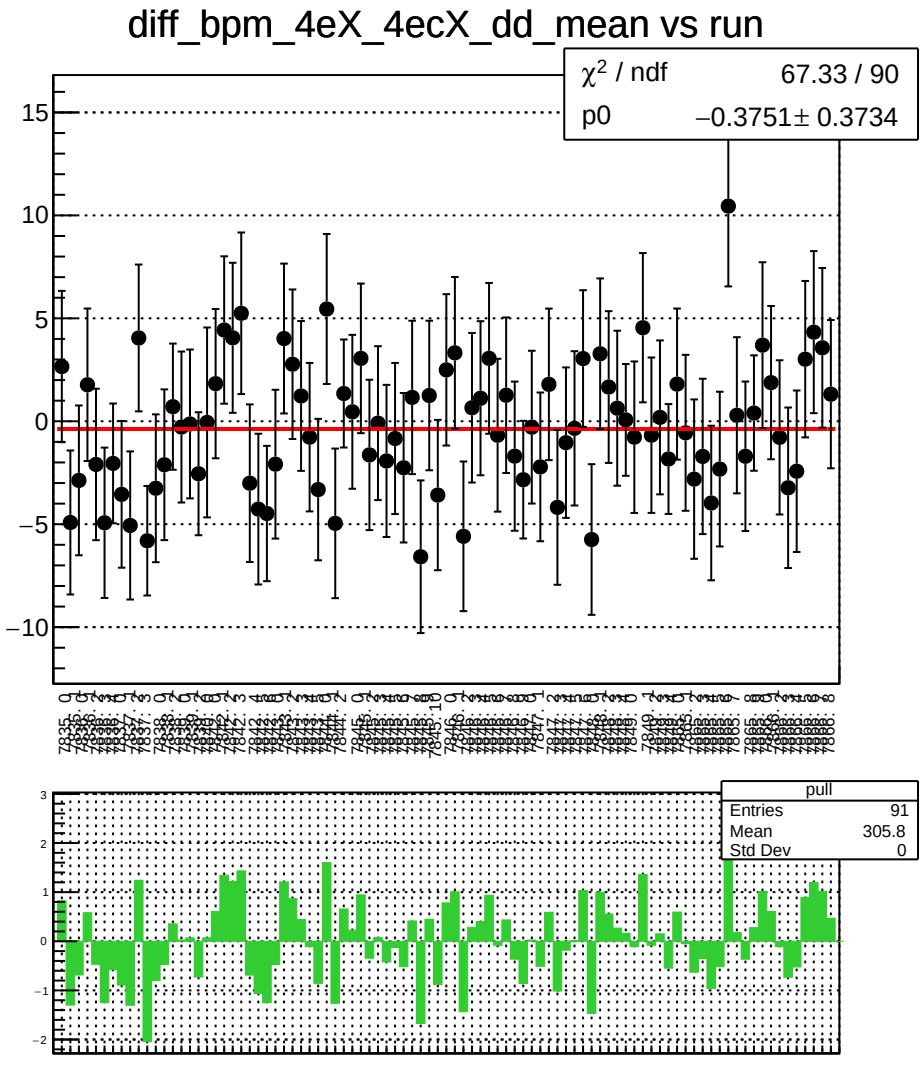

pull1D
Entries 91
Mean −0.01381
Std Dev 1.011

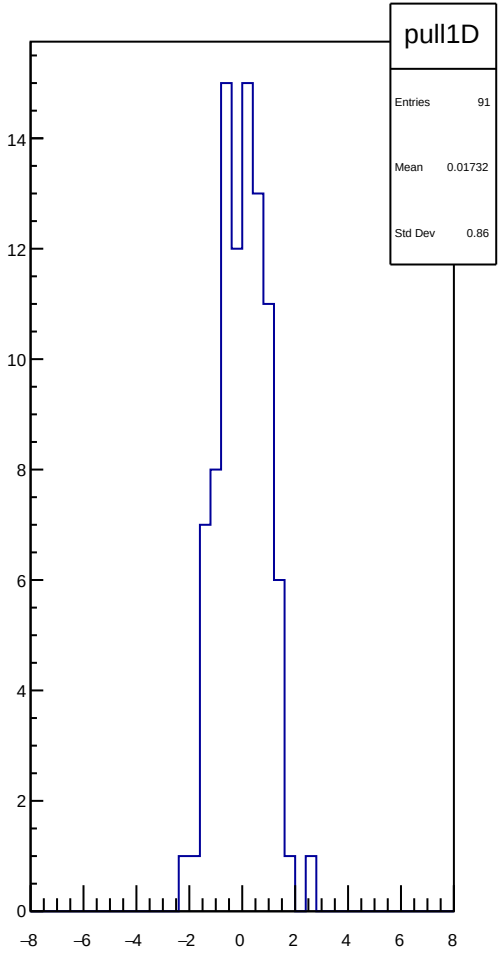

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2.804e+04 / 90
p0 758.2 ± 0.5769
2200
2000
1800
1600
1400
1200
1000
800
600

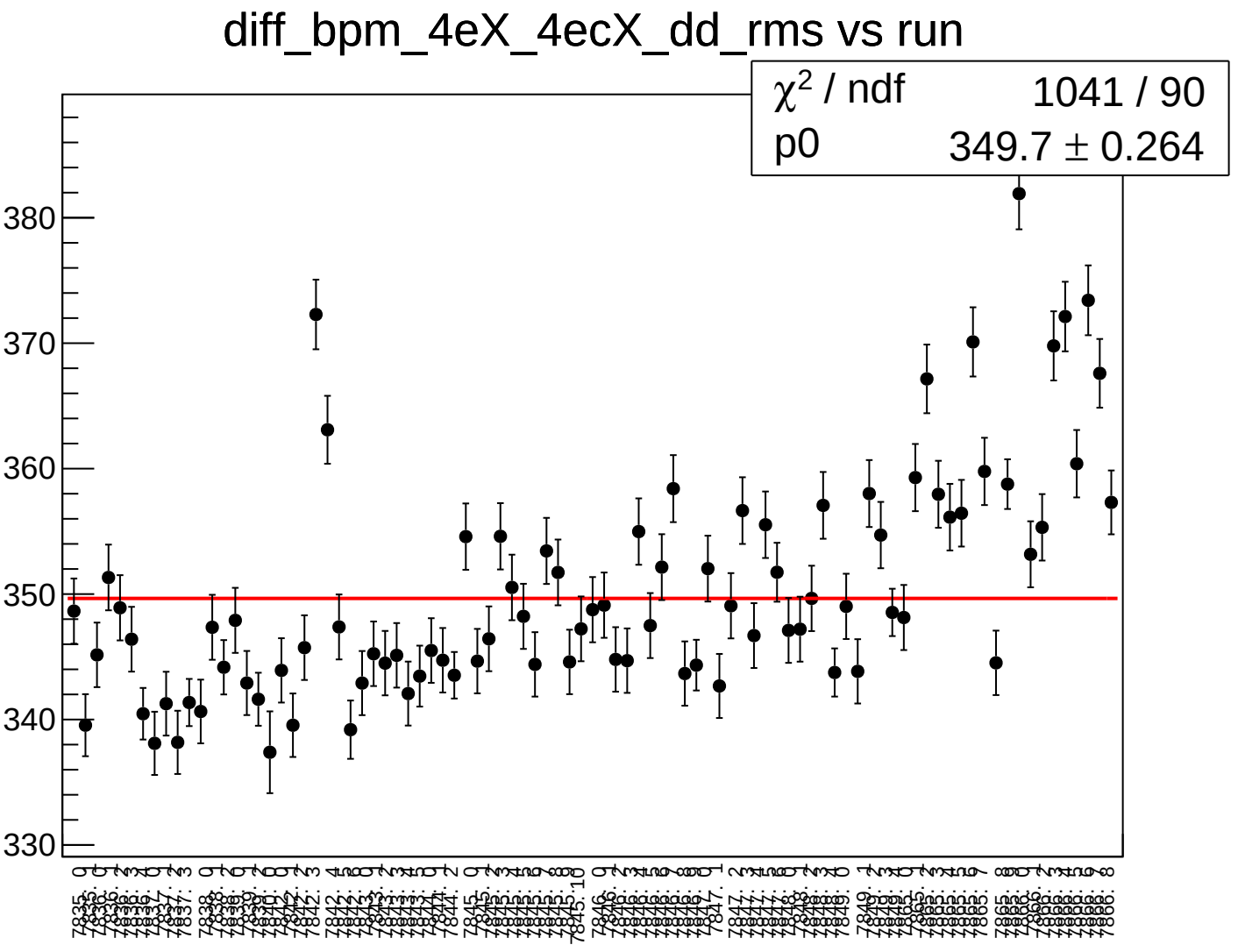

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 79.59 / 90
p0 −1.133 ± 29.05
1000
500
0
−500
−1000
pull
Entries 91
Mean 100.5
Std Dev 0
2
1
0
−1
−2

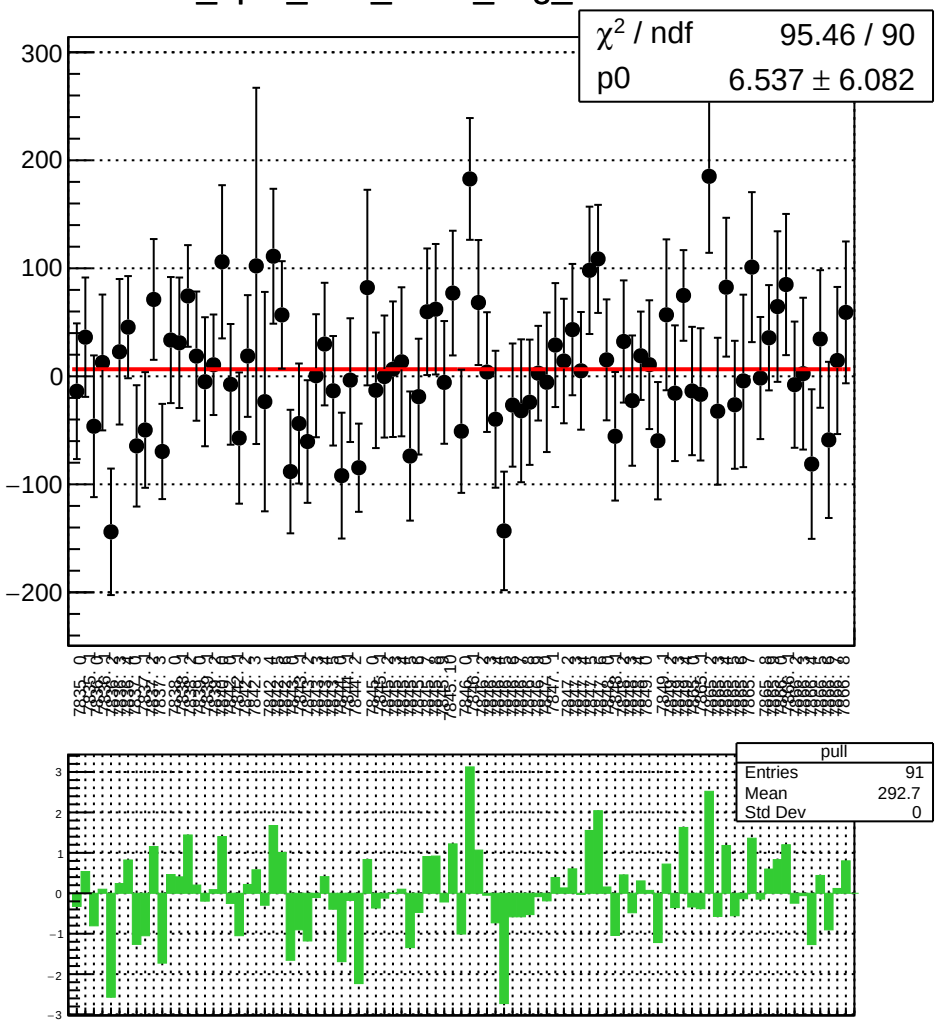

pull1D
Entries 91
Mean −0.01607
Std Dev 0.9351
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

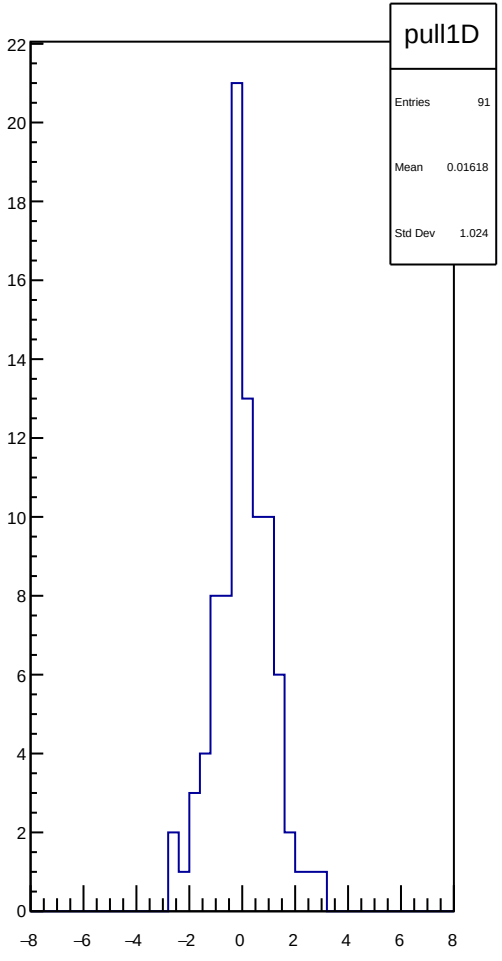

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.412e+04 / 90
p0 2.711e+04 ± 20.54
38000
36000
34000
32000
30000
28000
26000
24000

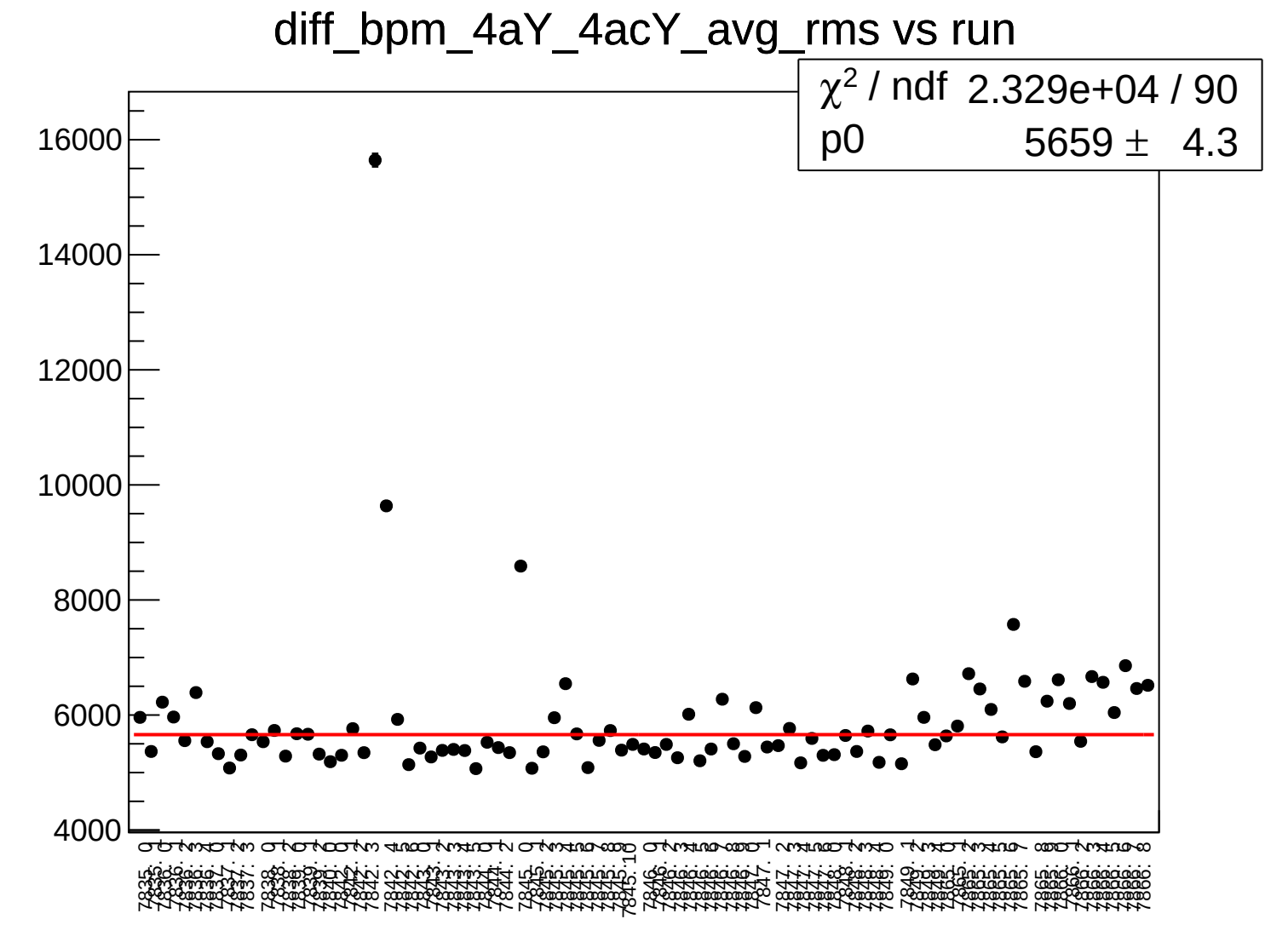

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 67.33 / 90
p0 −0.3751± 0.3734
pull
Entries 91
Mean 305.8
Std Dev 0

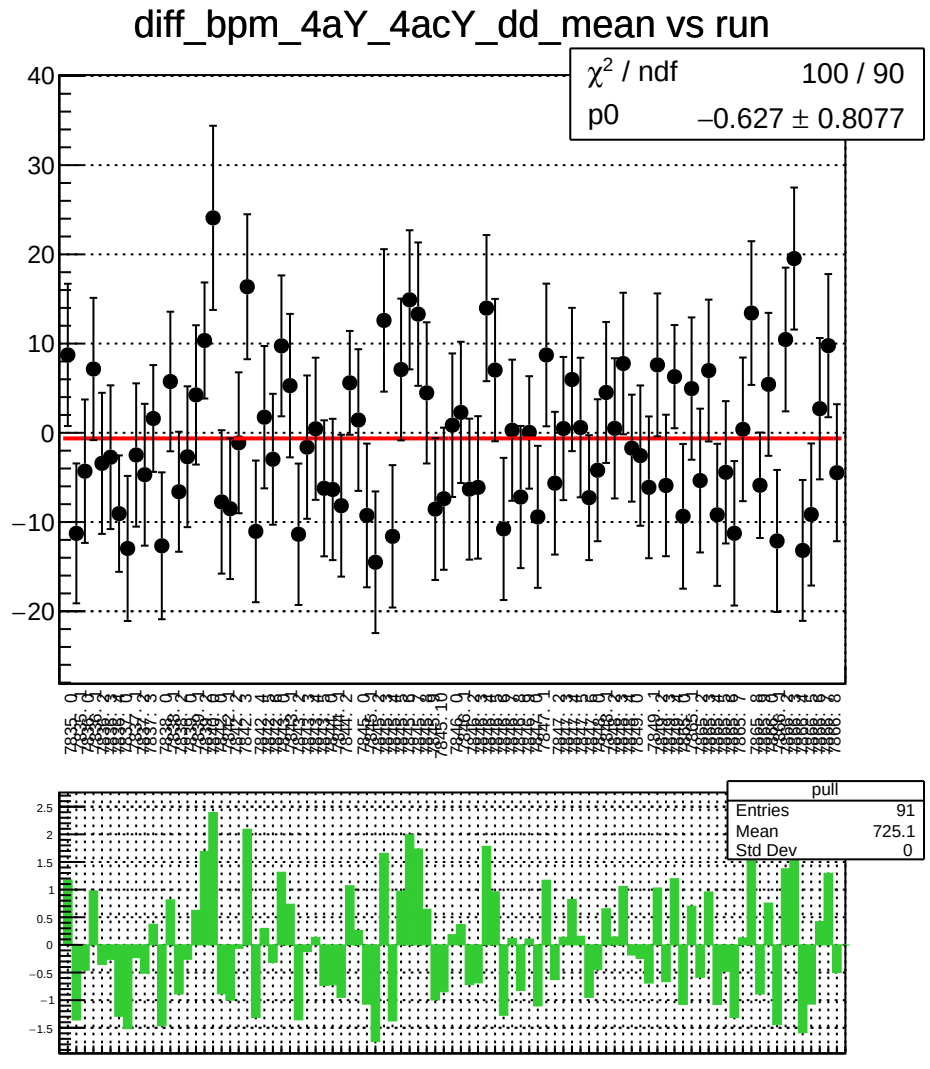

pull1D
Entries 91
Mean 0.01732
Std Dev 0.86

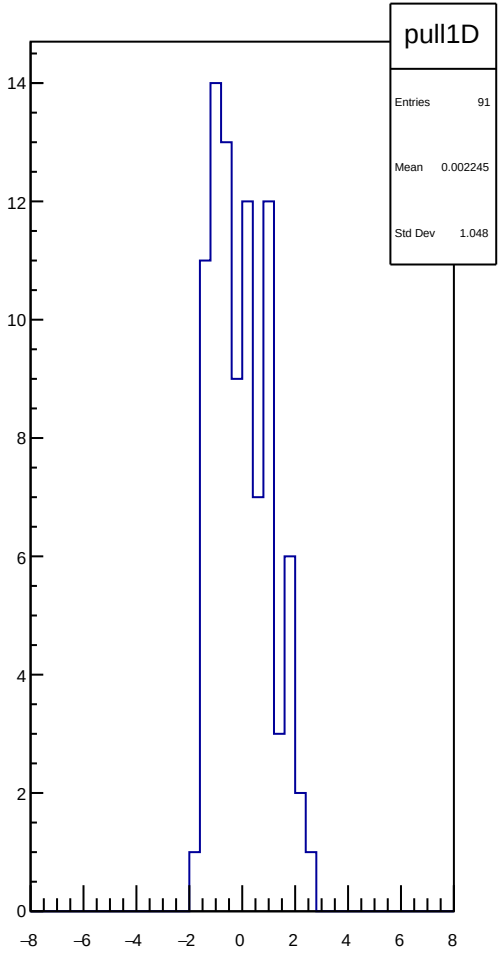

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1041 / 90
p0 349.7 ± 0.264
380
370
360
350
340
330

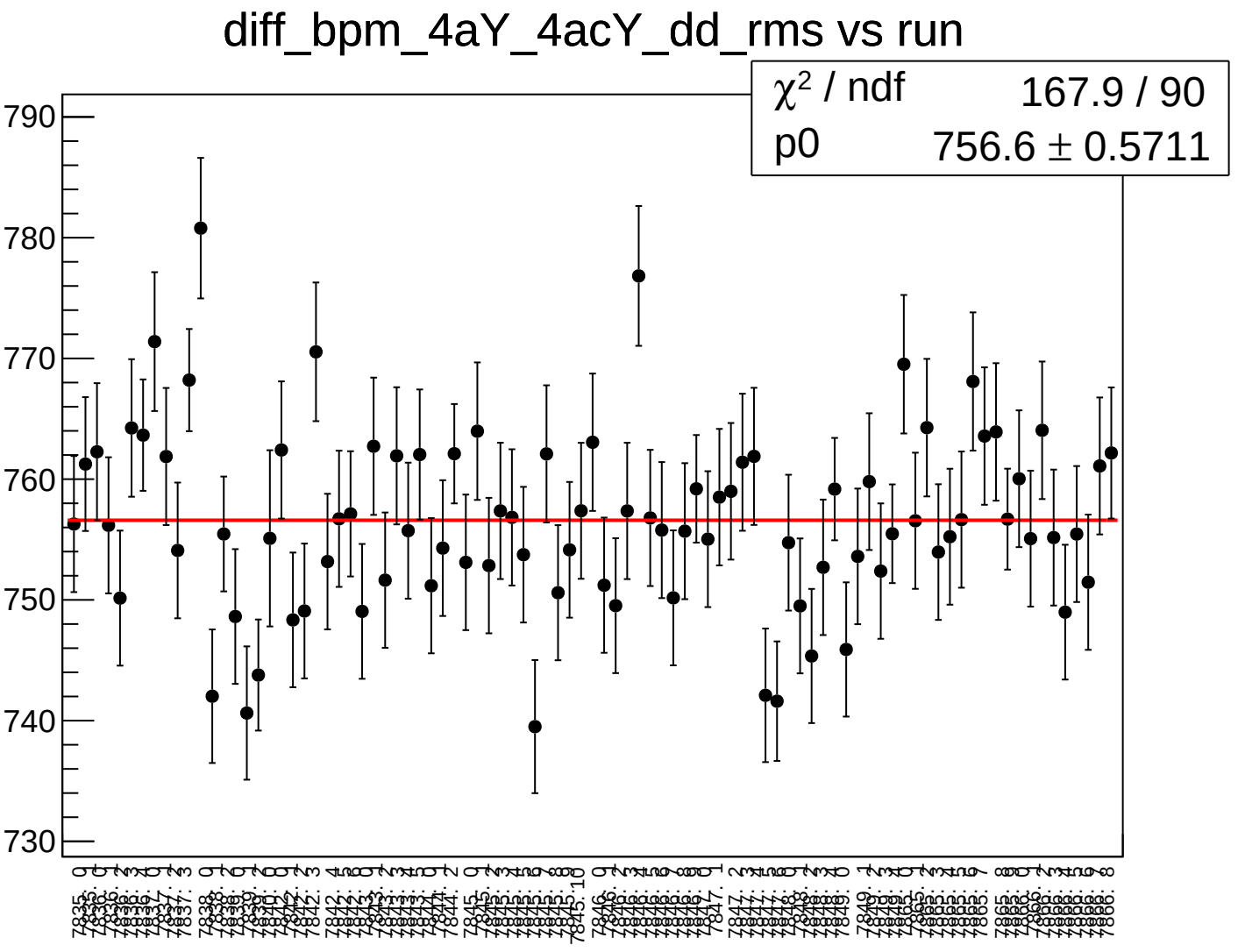

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 95.46 / 90
p0 6.537 ± 6.082
pull
Entries 91
Mean 292.7
Std Dev 0

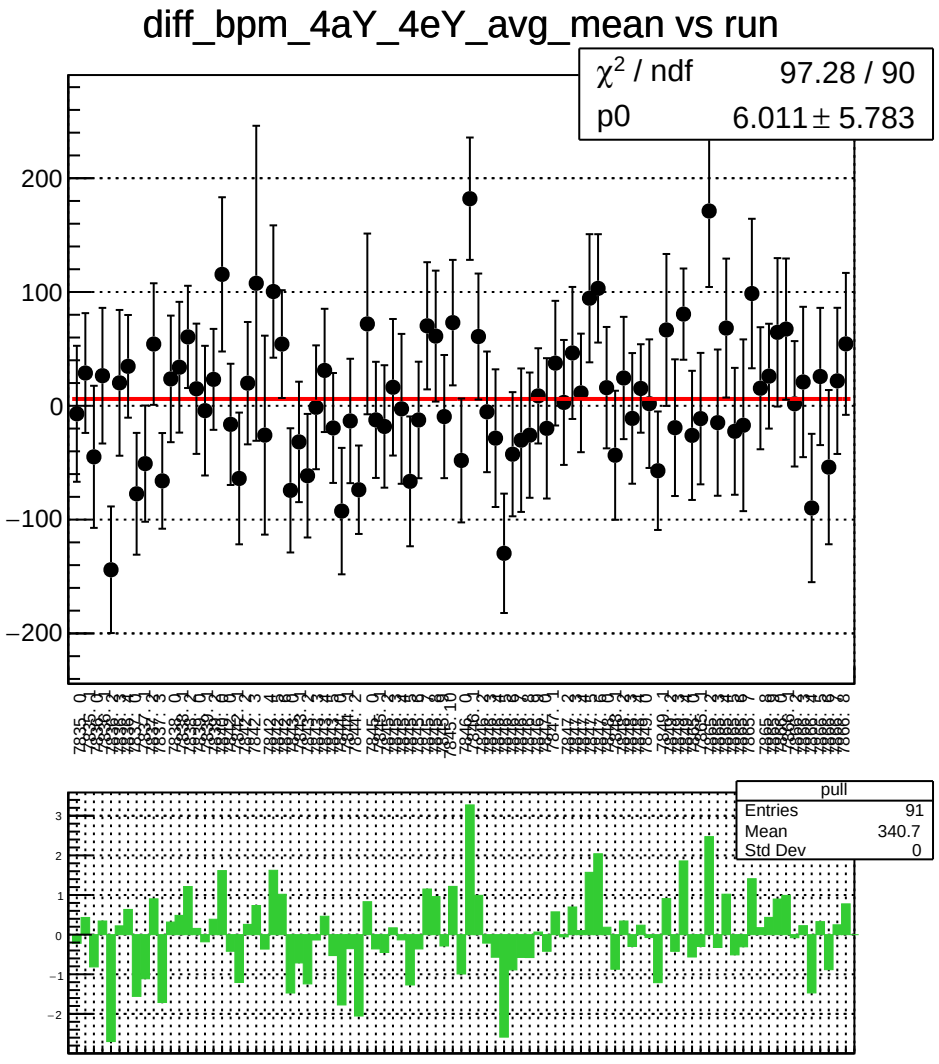

pull1D
Entries 91
Mean 0.01618
Std Dev 1.024

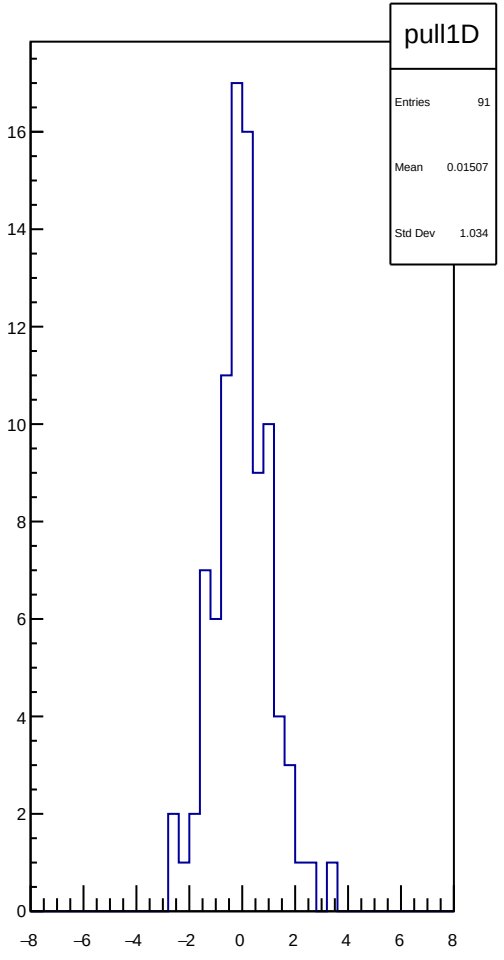

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2.329e+04 / 90
p0 5659 ± 4.3
16000
14000
12000
10000
8000
6000
4000

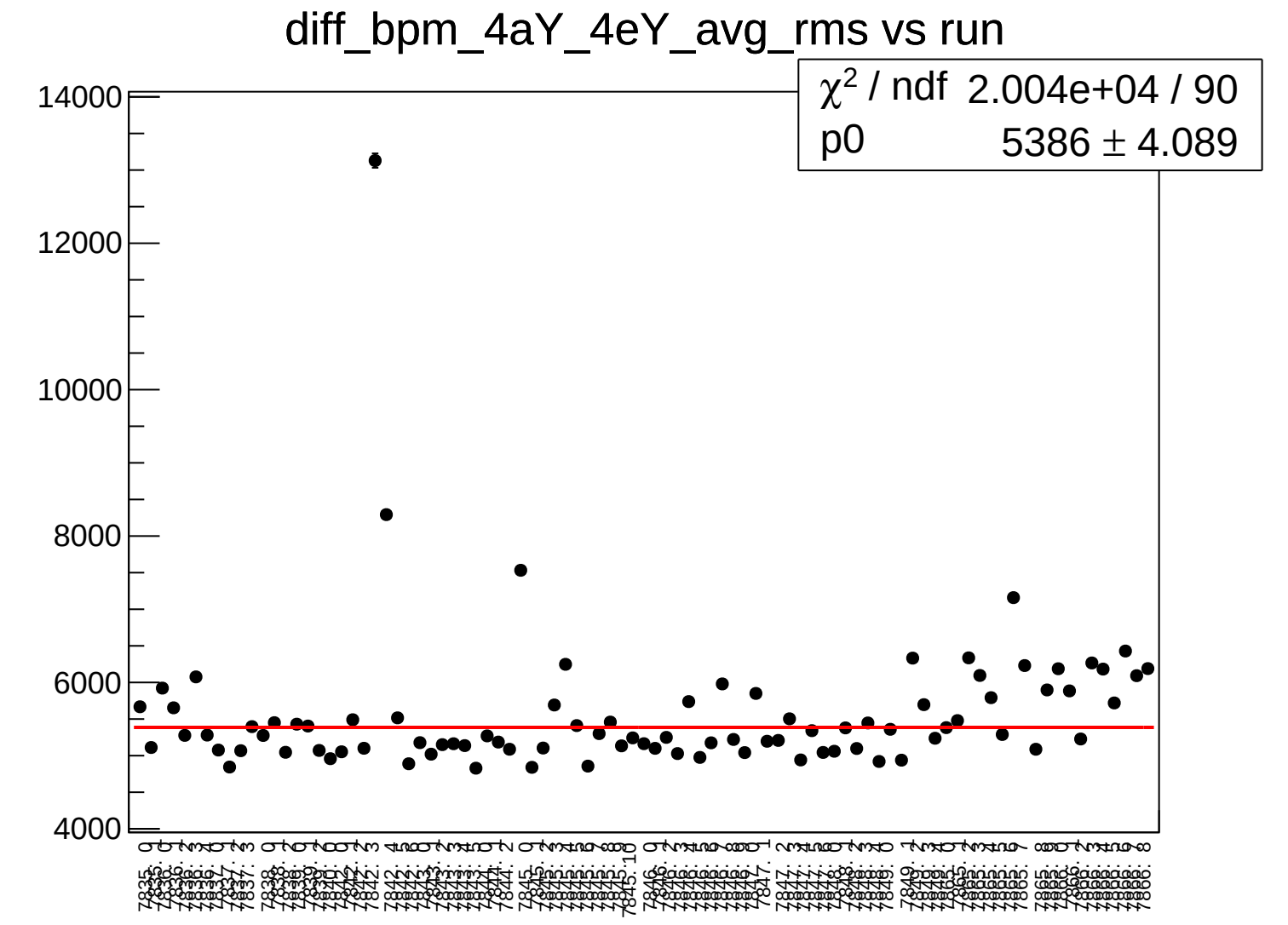

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 100 / 90
p0 −0.627 ± 0.8077
pull
Entries 91
Mean 725.1
Std Dev 0

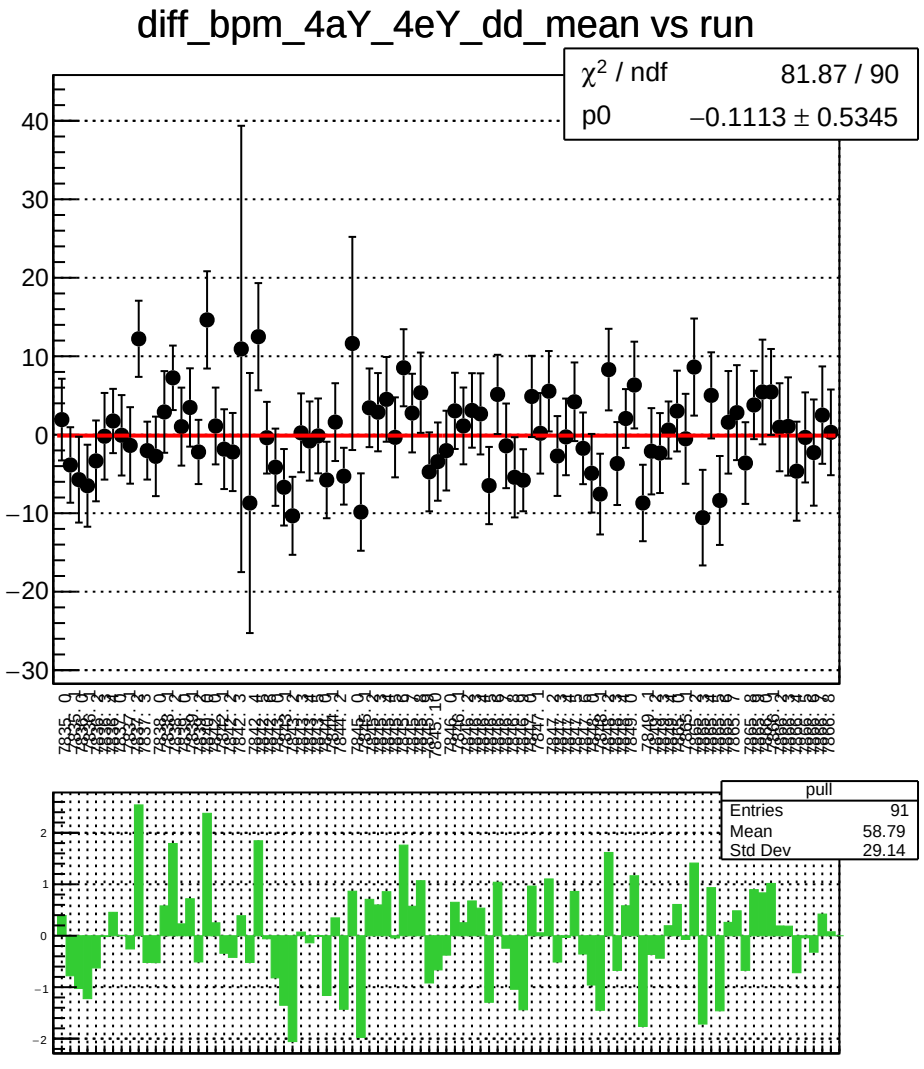

pull1D
Entries 91
Mean 0.002245
Std Dev 1.048

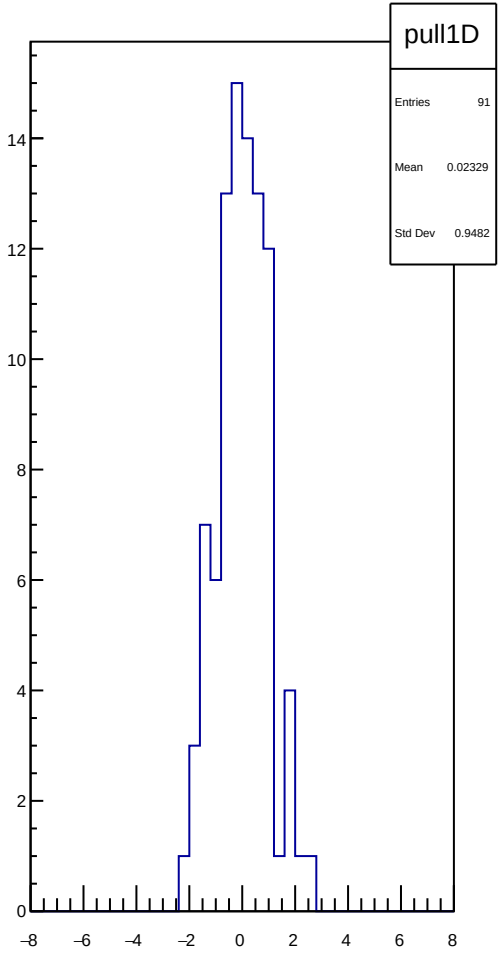

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 167.9 / 90
p0 756.6 ± 0.5711
790
780
770
760
750
740
730

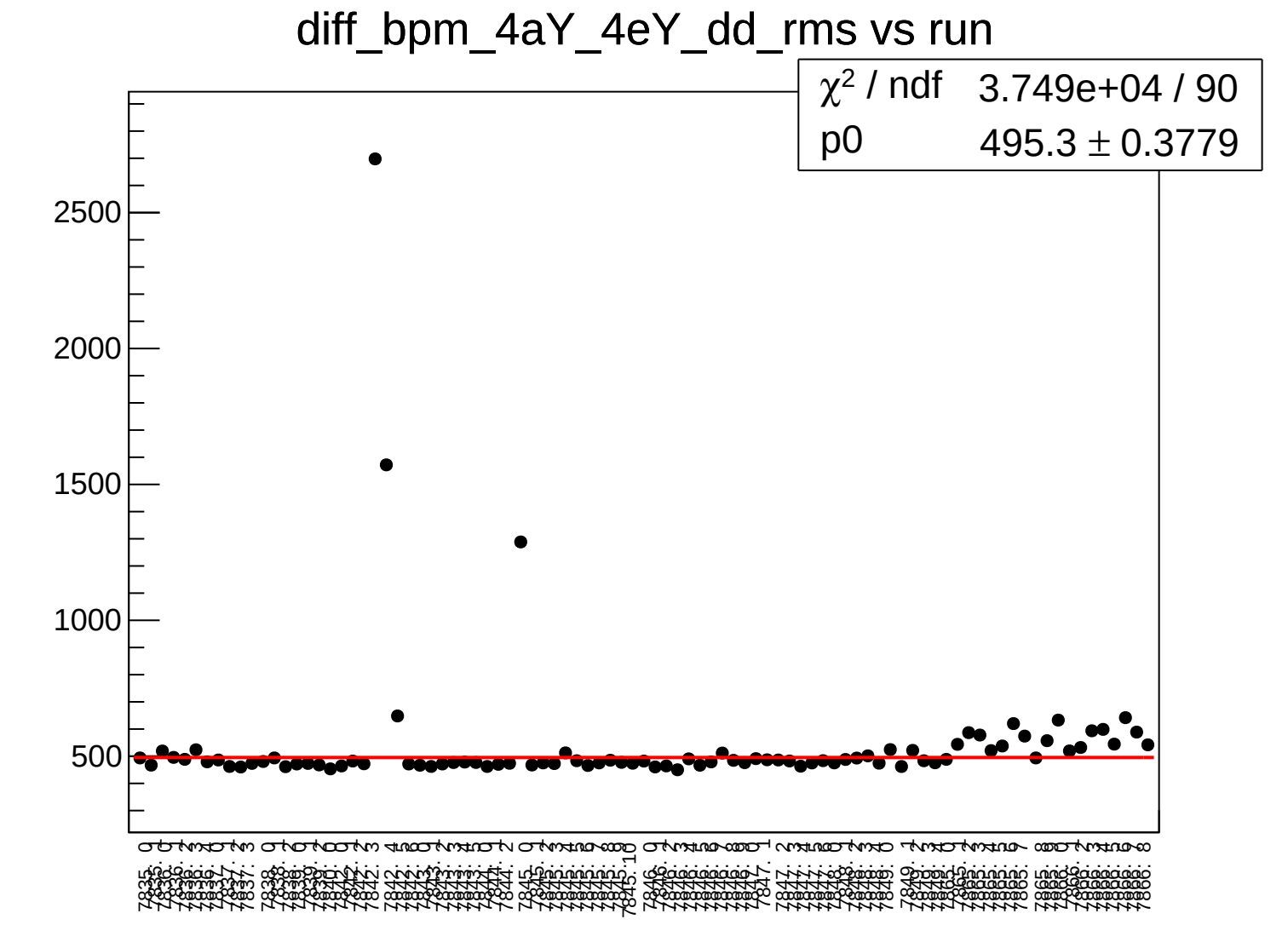

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 97.28 / 90
p0 6.011 ± 5.783
200
100
0
−100
−200
pull
Entries 91
Mean 340.7
Std Dev 0
3
2
1
0
−1
−2

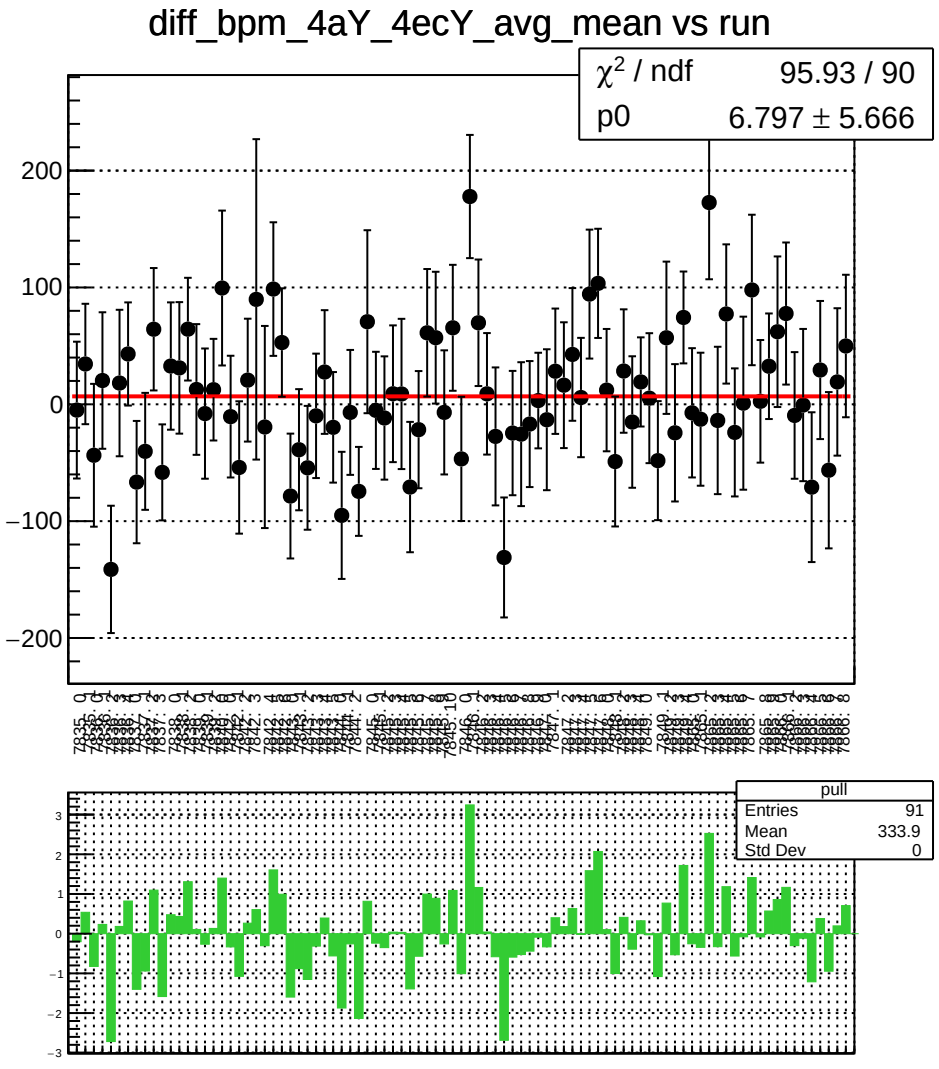

pull1D
Entries 91
Mean 0.01507
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

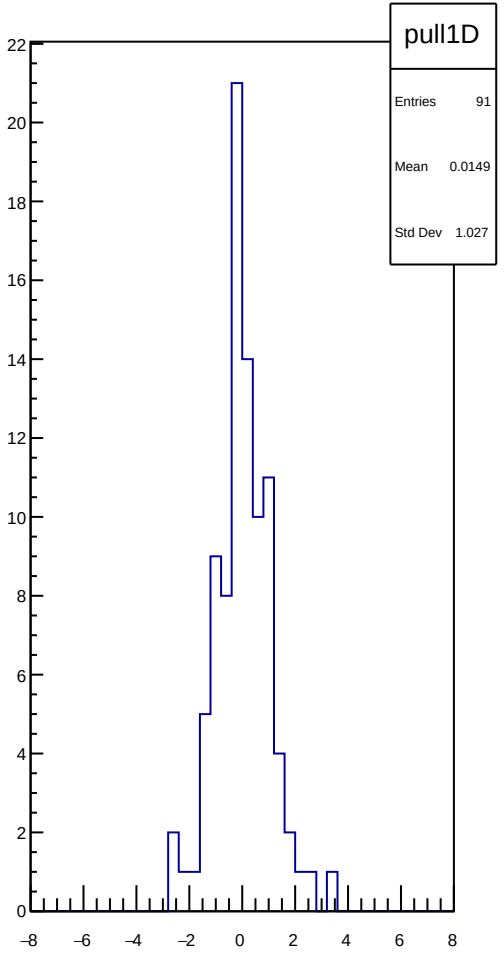

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2.004e+04 / 90
p0 5386 ± 4.089
14000
12000
10000
8000
6000
4000

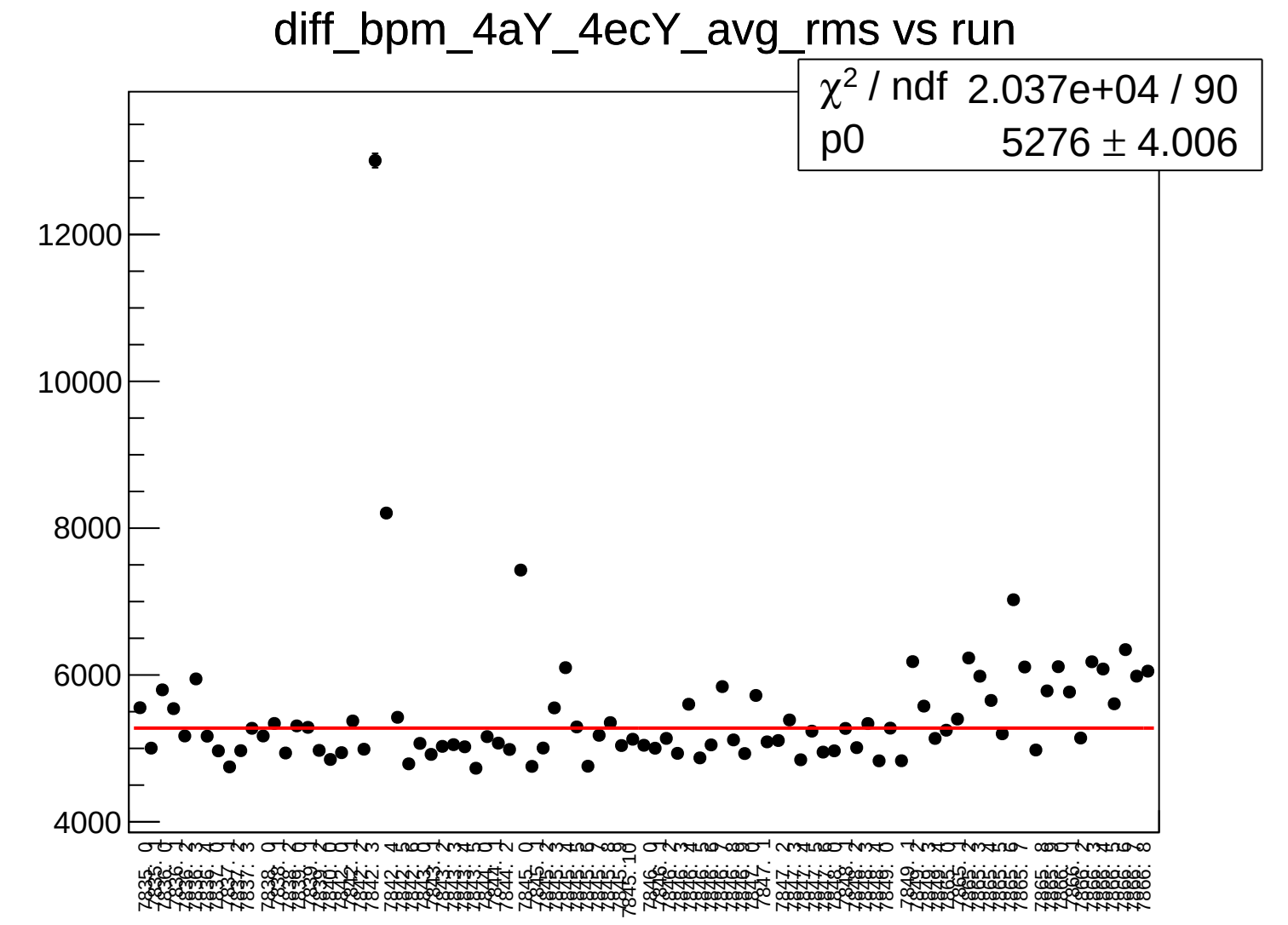

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 81.87 / 90
p0 −0.1113 ± 0.5345
pull
Entries 91
Mean 58.79
Std Dev 29.14

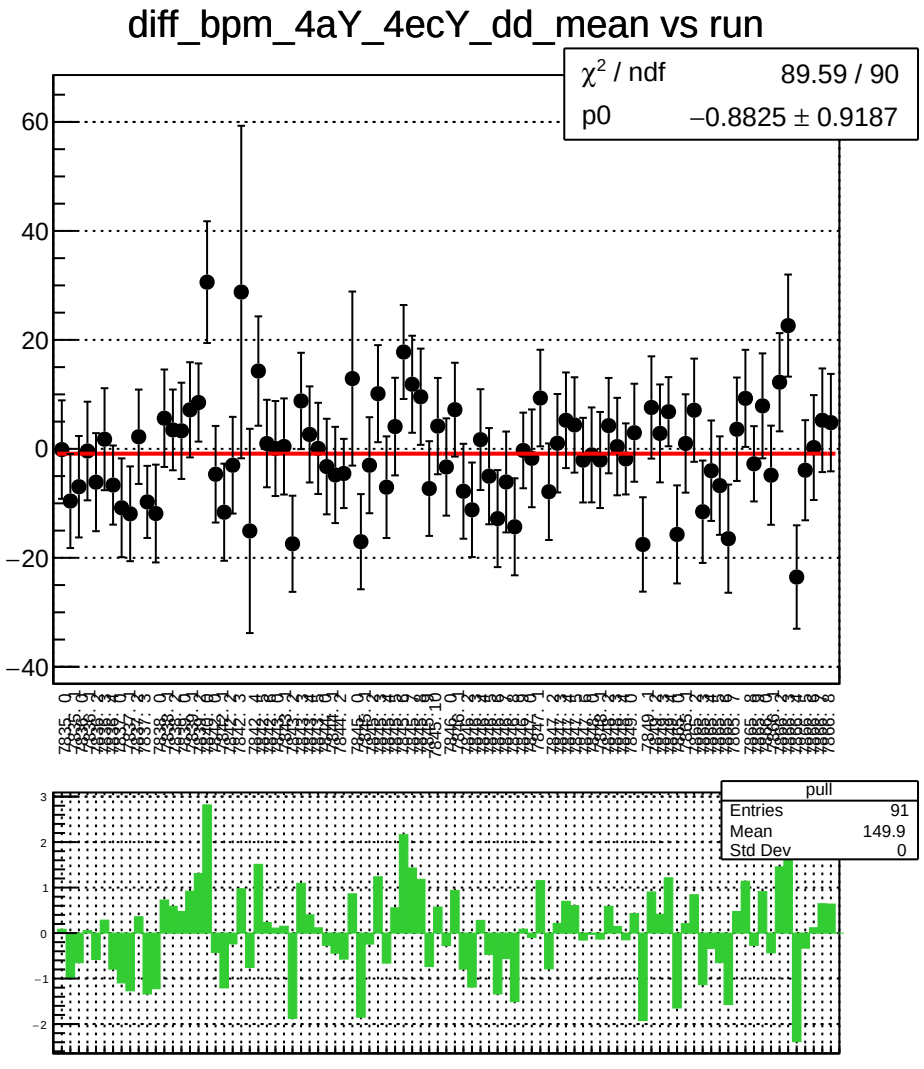

pull1D
Entries 91
Mean 0.02329
Std Dev 0.9482

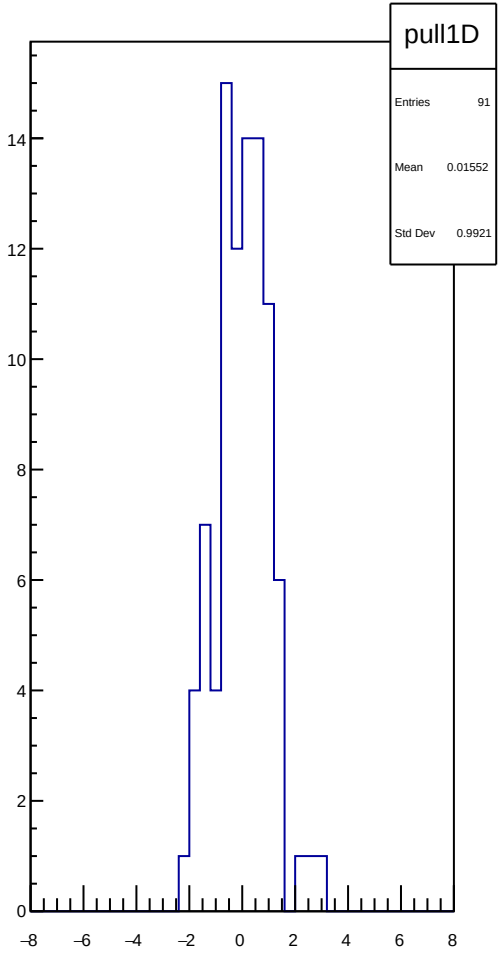

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3.749e+04 / 90
p0 495.3 ± 0.3779
2500
2000
1500
1000
500

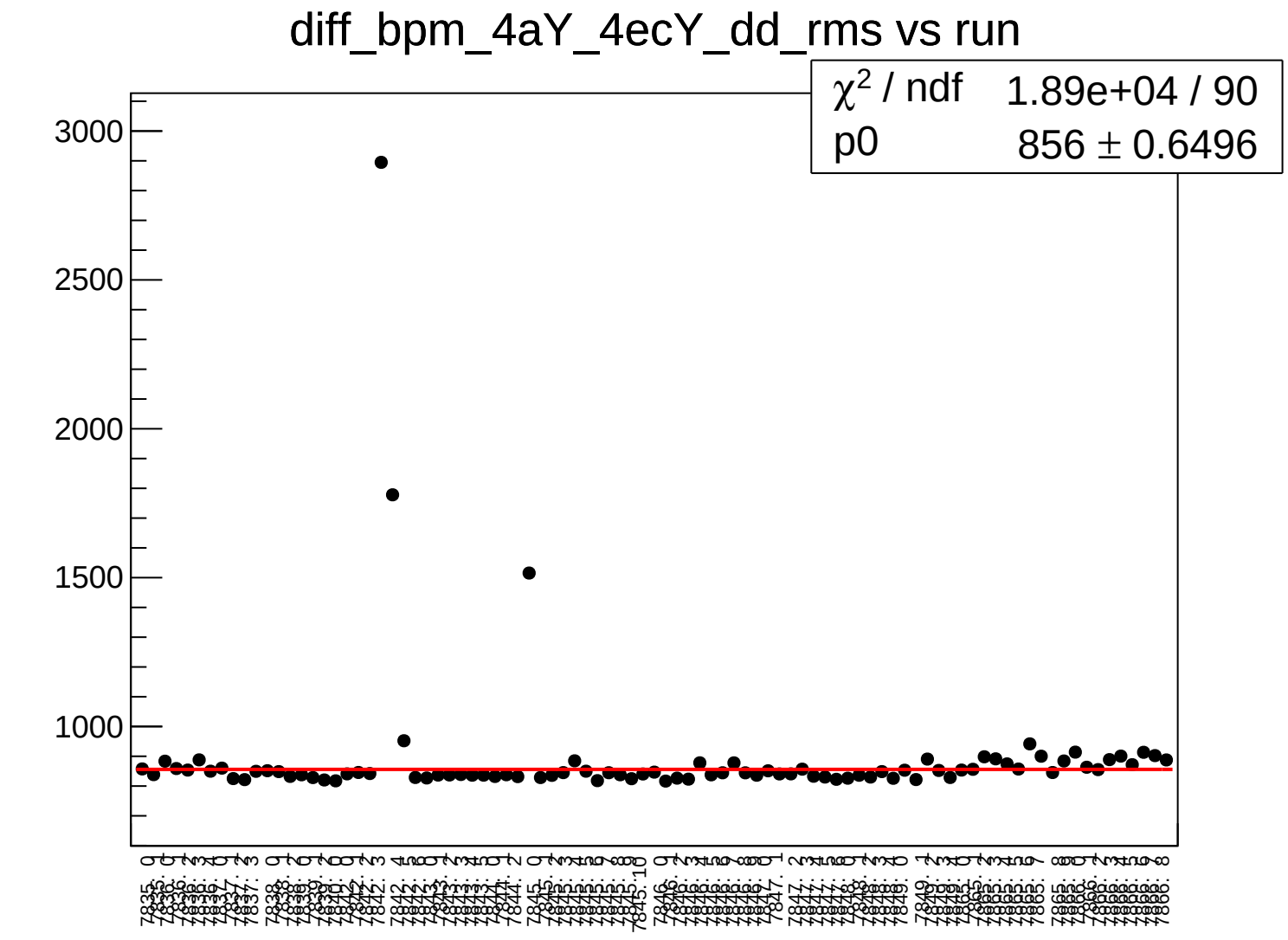

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 95.93 / 90
p0 6.797 ± 5.666
pull
Entries 91
Mean 333.9
Std Dev 0

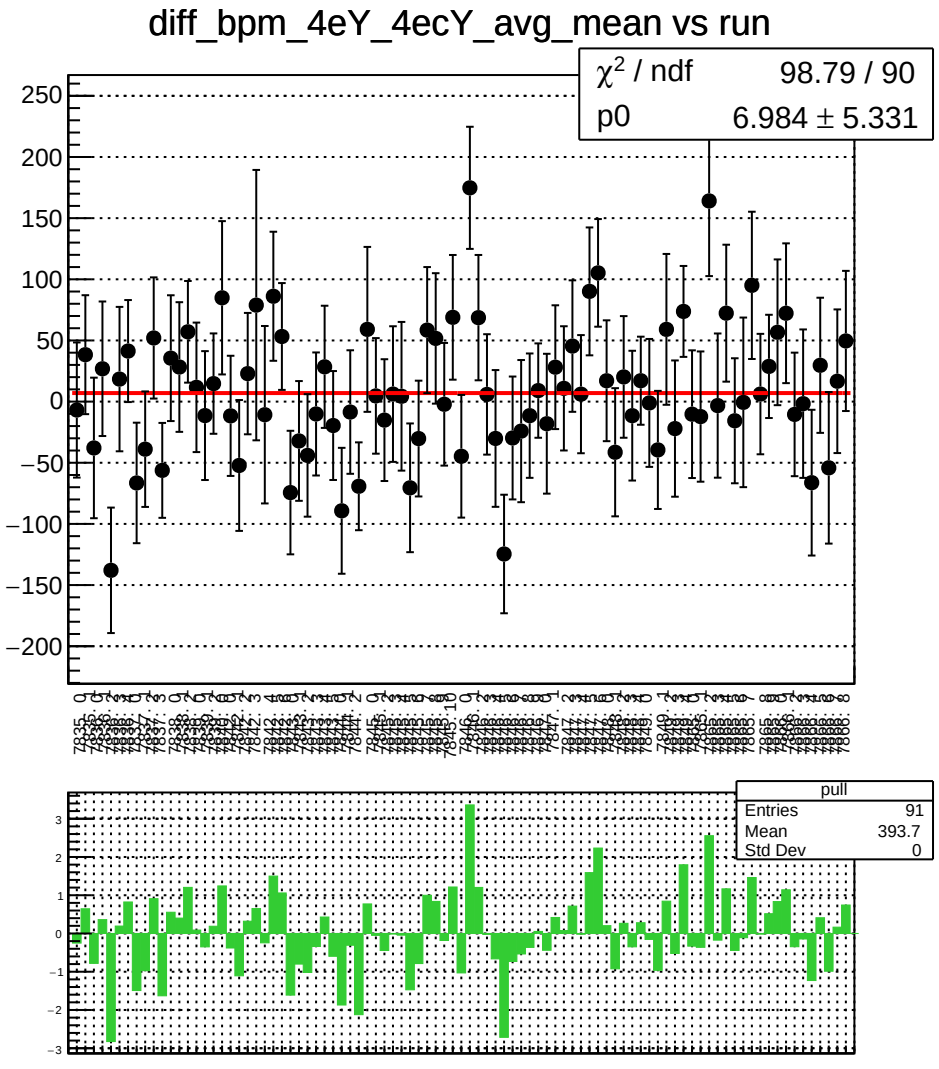

pull1D
Entries 91
Mean 0.0149
Std Dev 1.027

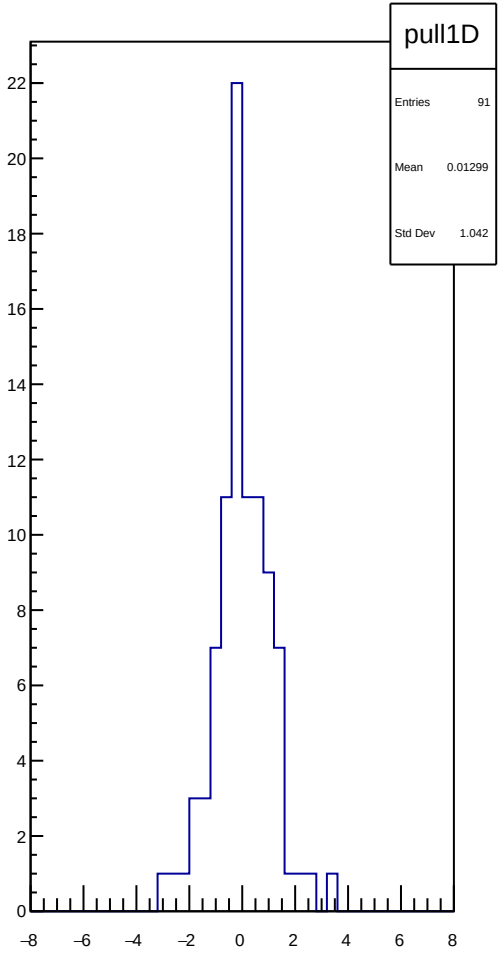

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2.037e+04 / 90
p0 5276 ± 4.006
12000
10000
8000
6000
4000

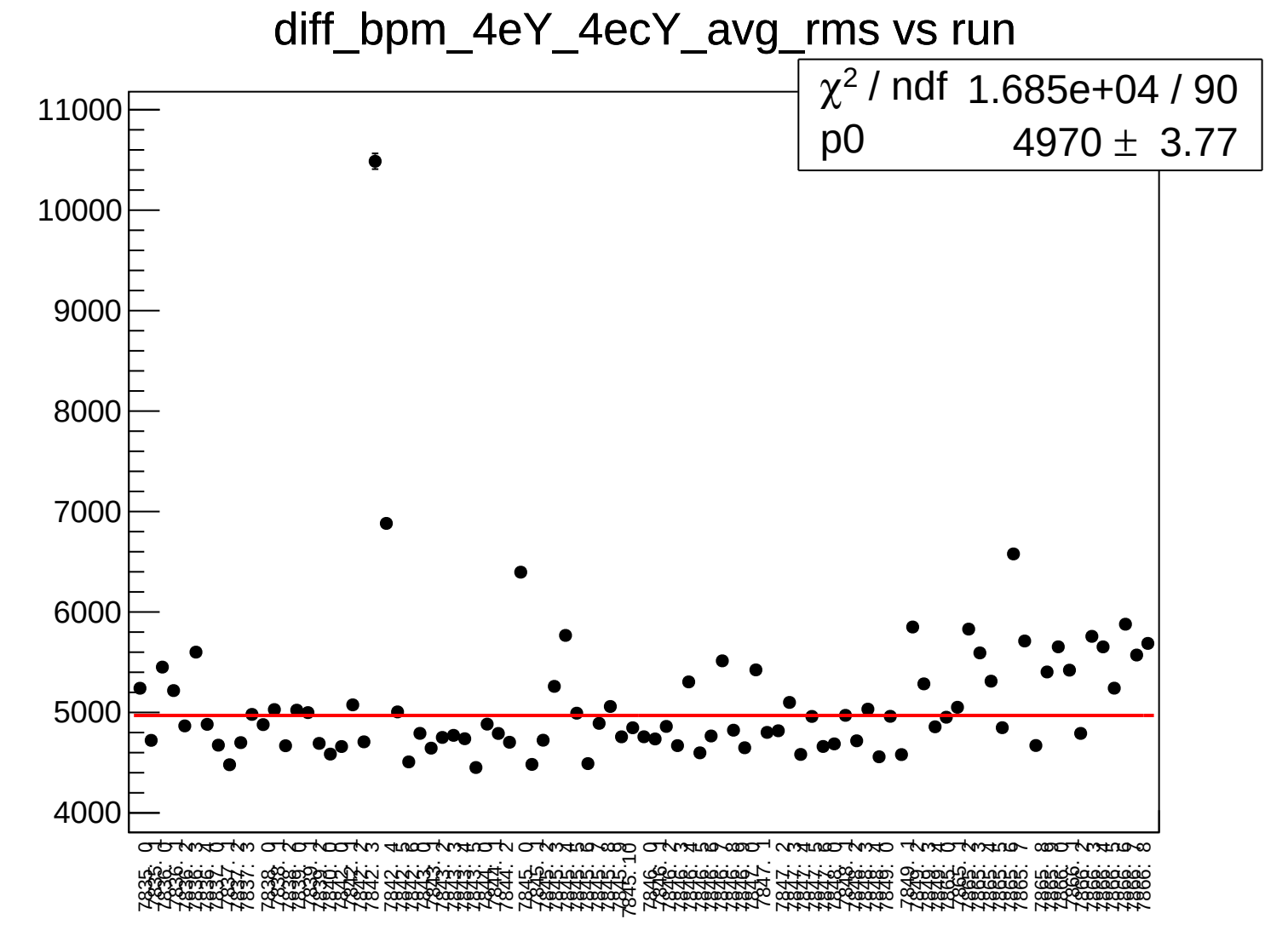

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 89.59 / 90
p0 −0.8825 ± 0.9187
pull
Entries 91
Mean 149.9
Std Dev 0

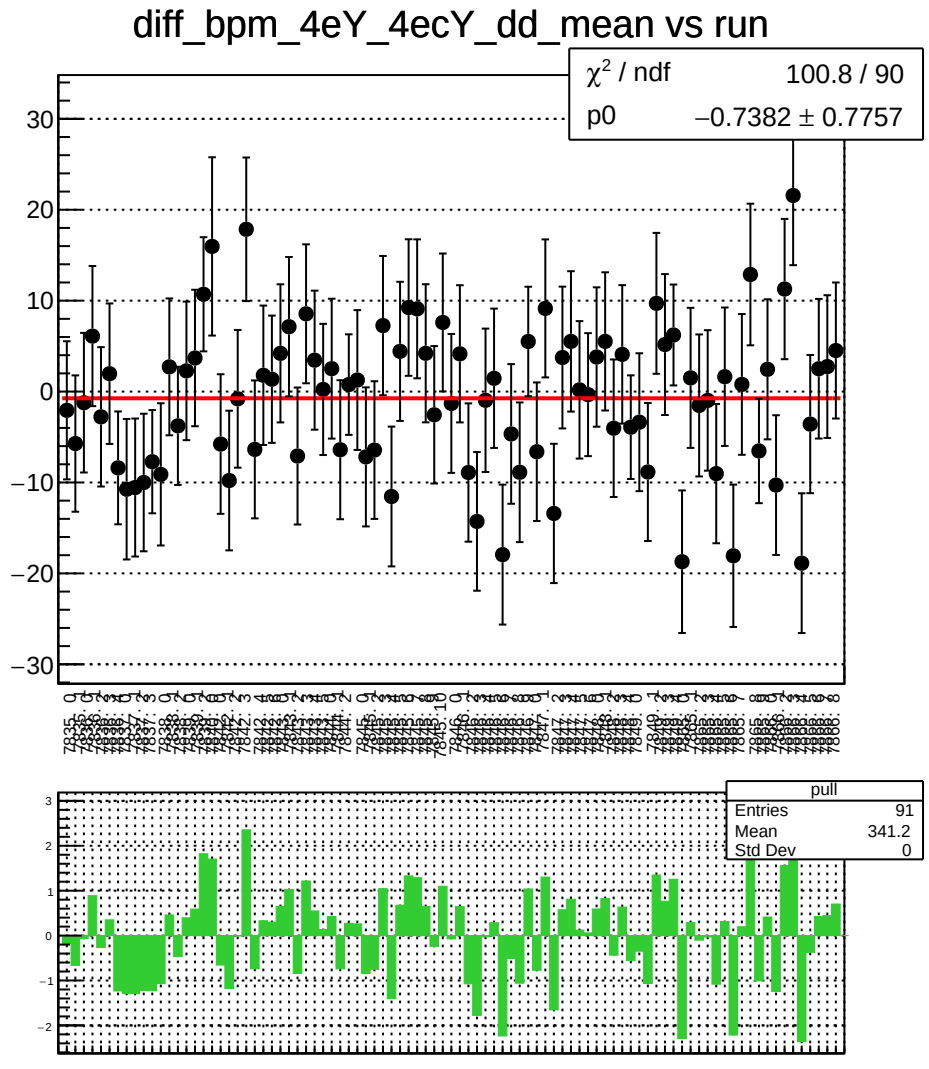

pull1D
Entries 91
Mean 0.01552
Std Dev 0.9921

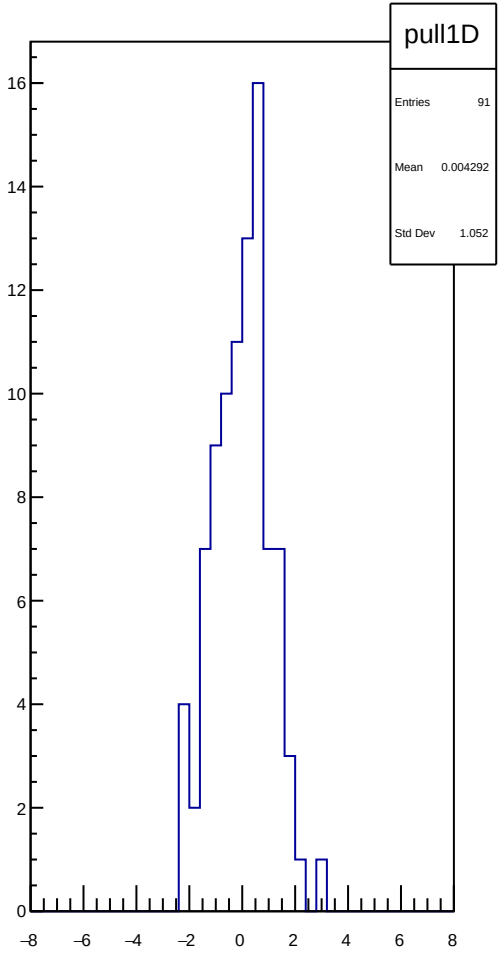

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1.89e+04 / 90
p0 856 ± 0.6496
3000
2500
2000
1500
1000

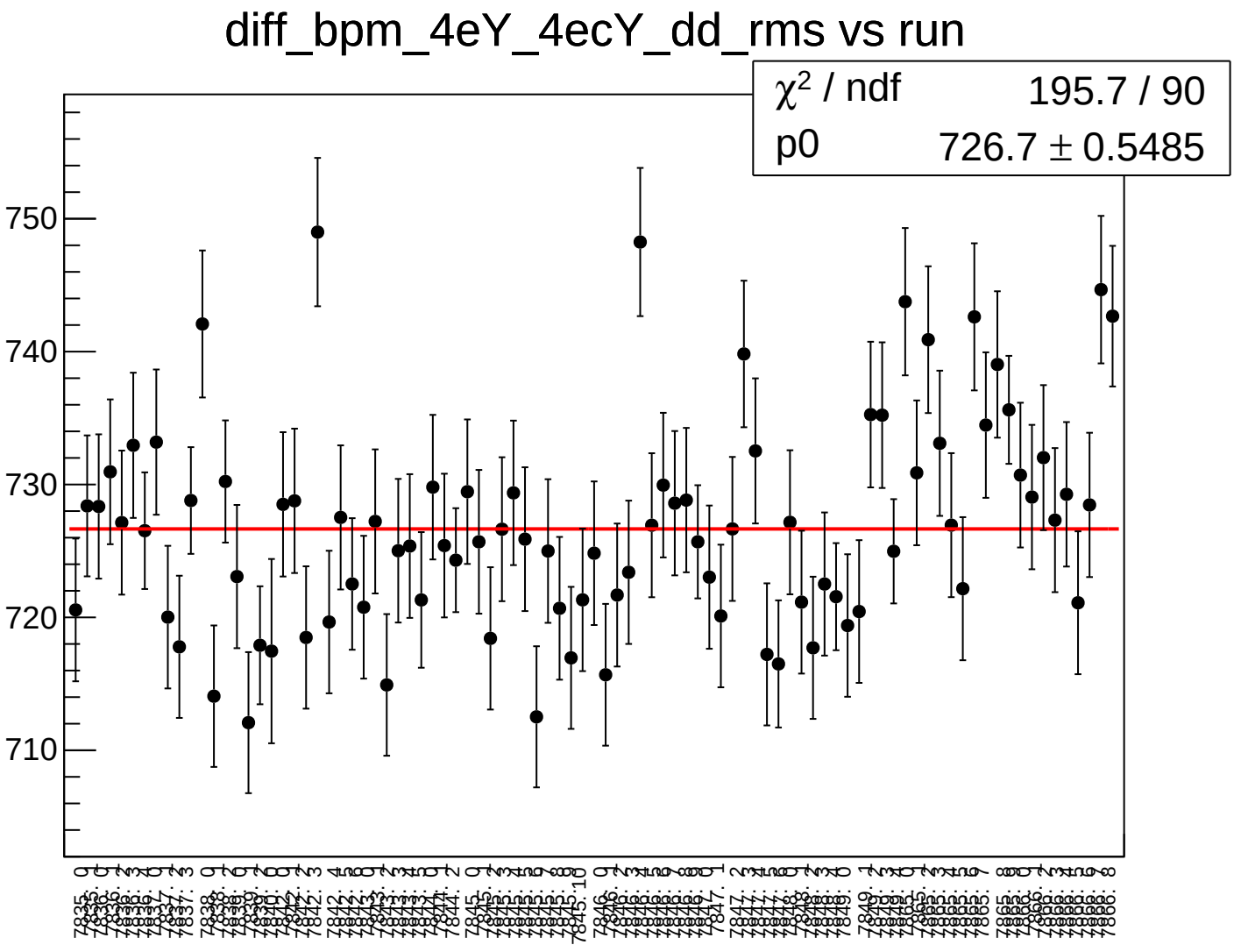

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 98.79 / 90
p0 6.984 ± 5.331
pull
Entries 91
Mean 393.7
Std Dev 0

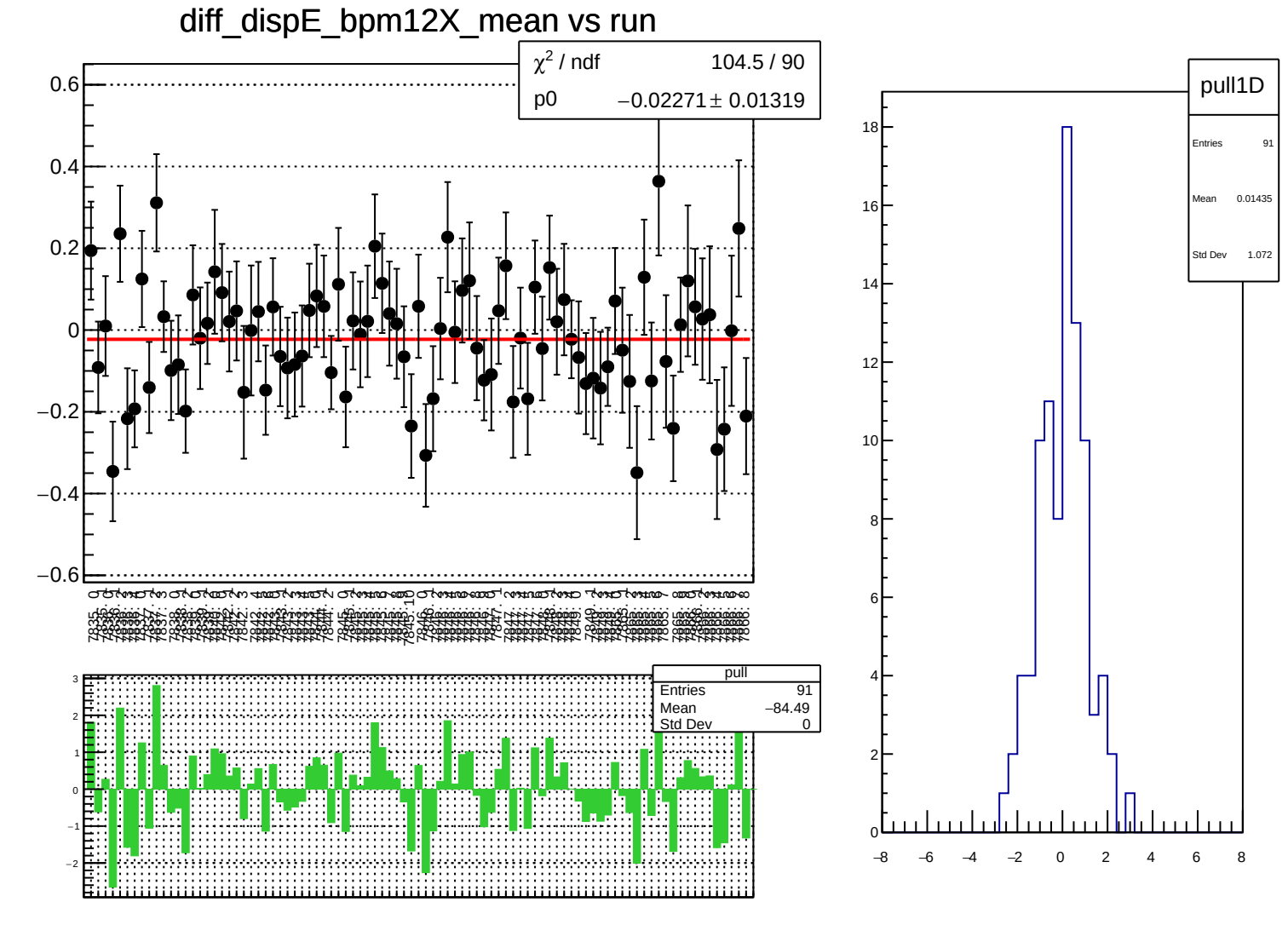

pull1D
Entries 91
Mean 0.01299
Std Dev 1.042

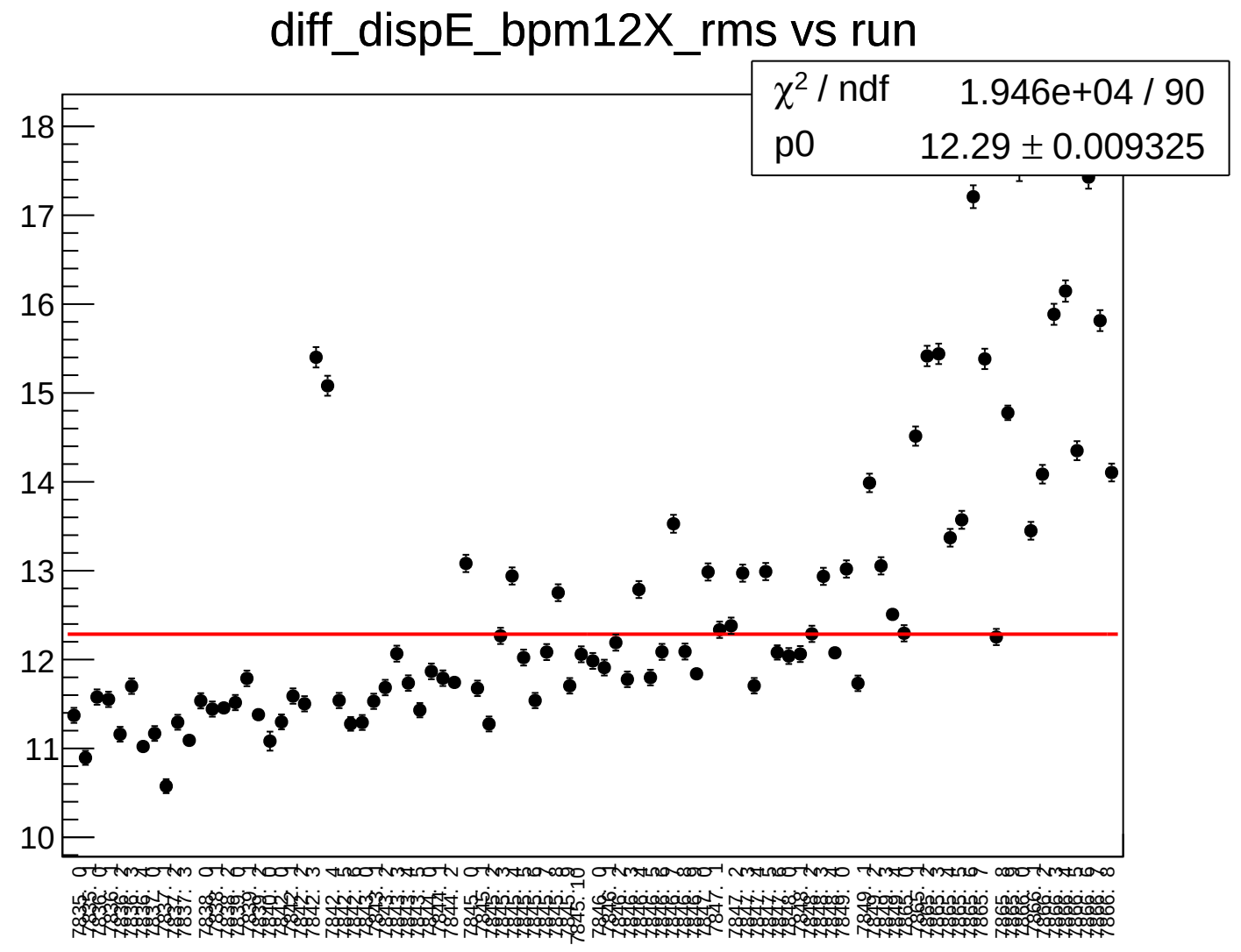

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.685e+04 / 90
p0 4970 ± 3.77
11000
10000
9000
8000
7000
6000
5000
4000

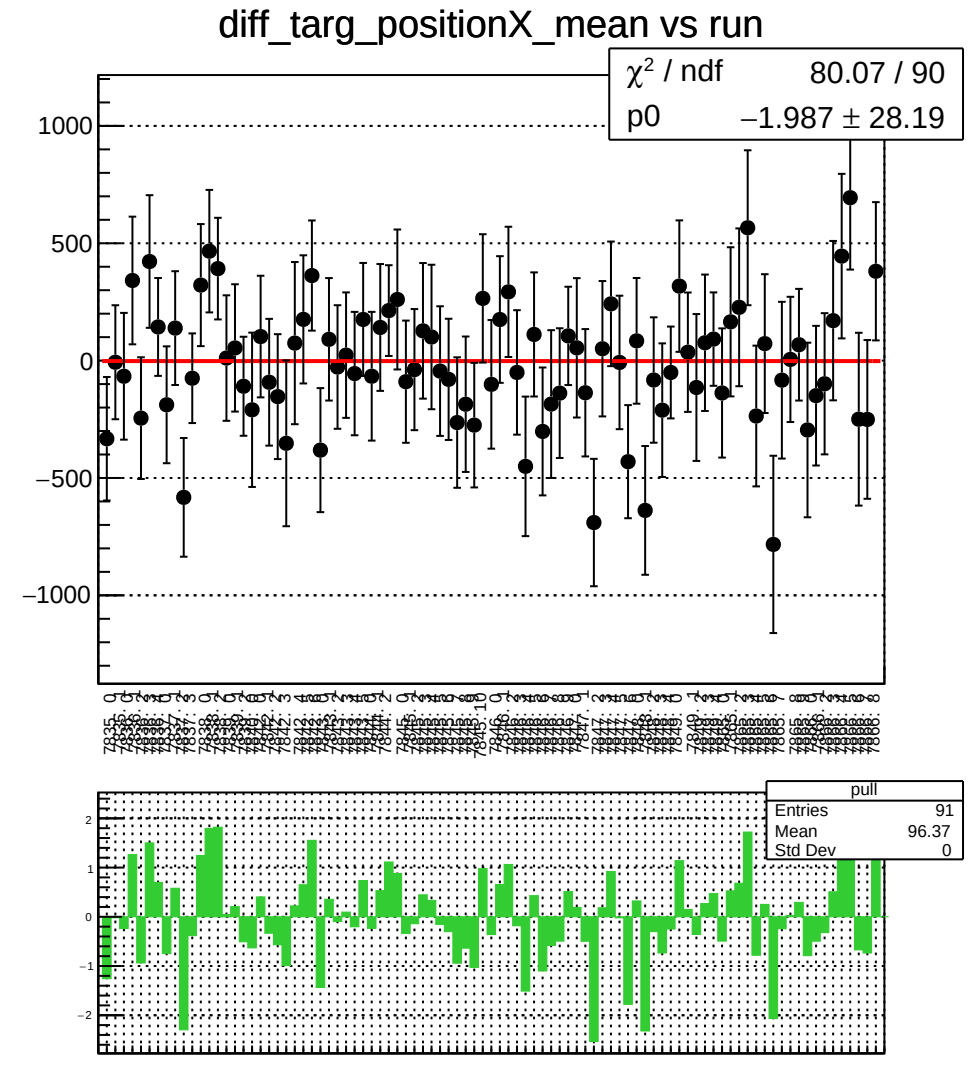

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 100.8 / 90
p0 −0.7382 ± 0.7757
pull
Entries 91
Mean 341.2
Std Dev 0

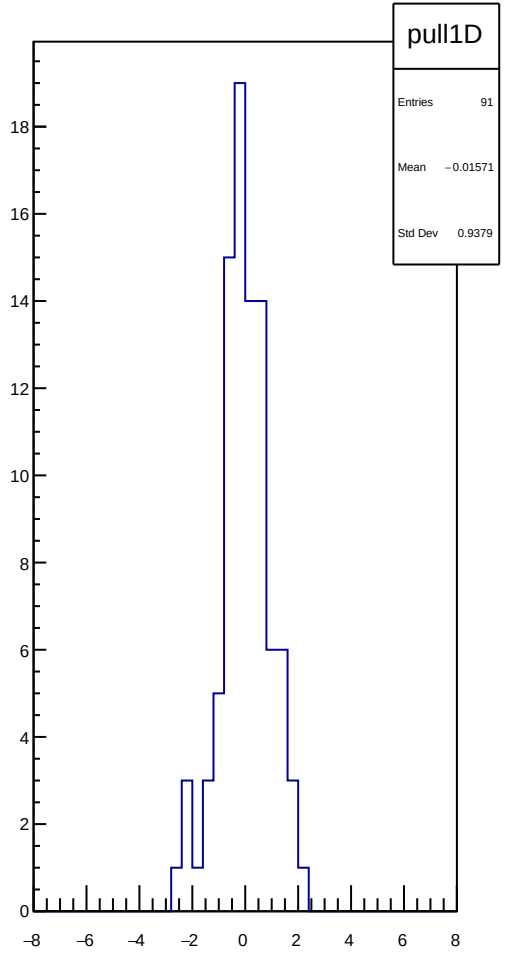

pull1D
Entries 91
Mean 0.004292
Std Dev 1.052

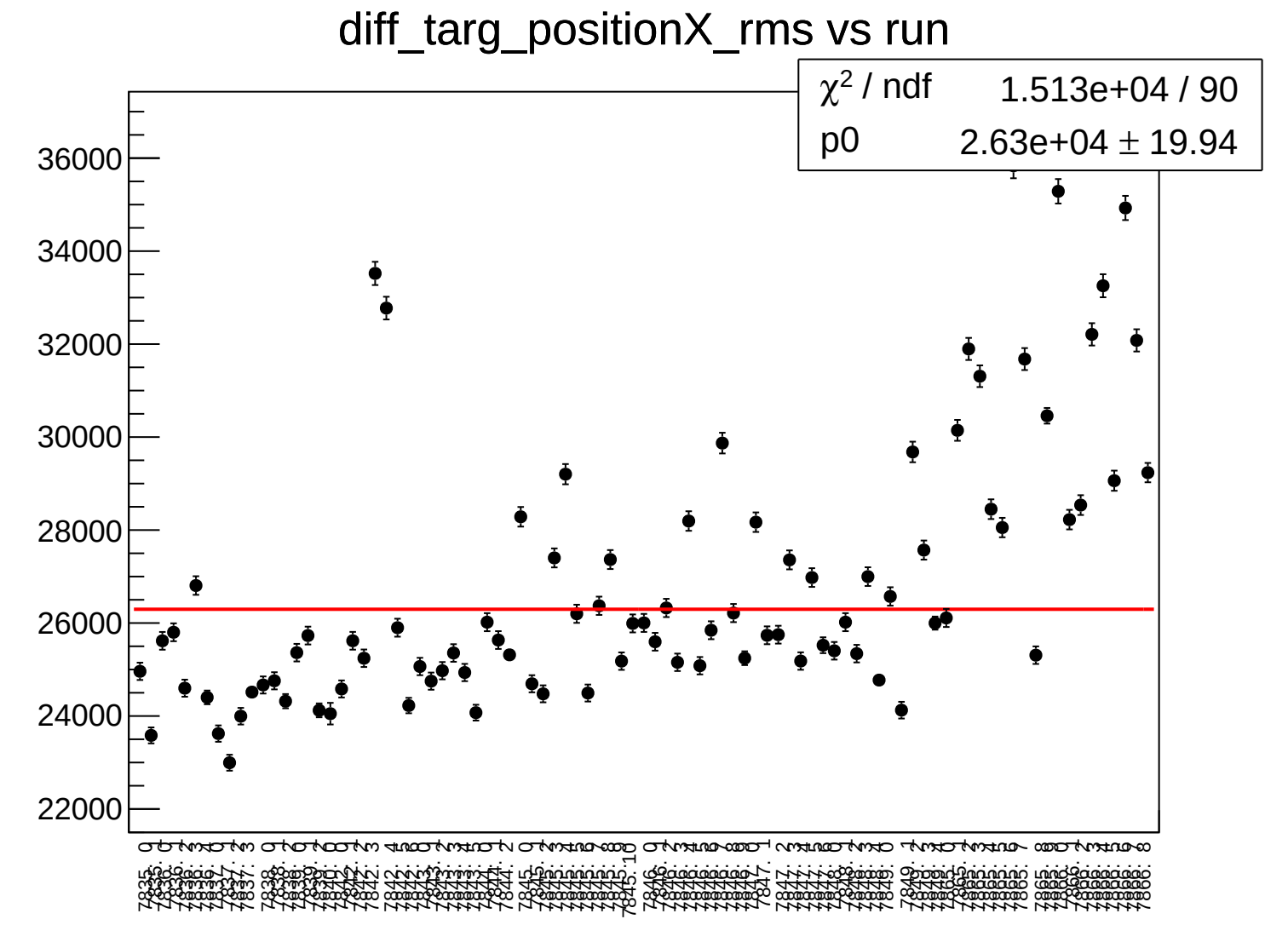

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 195.7 / 90
p0 726.7 ± 0.5485
750
740
730
720
710

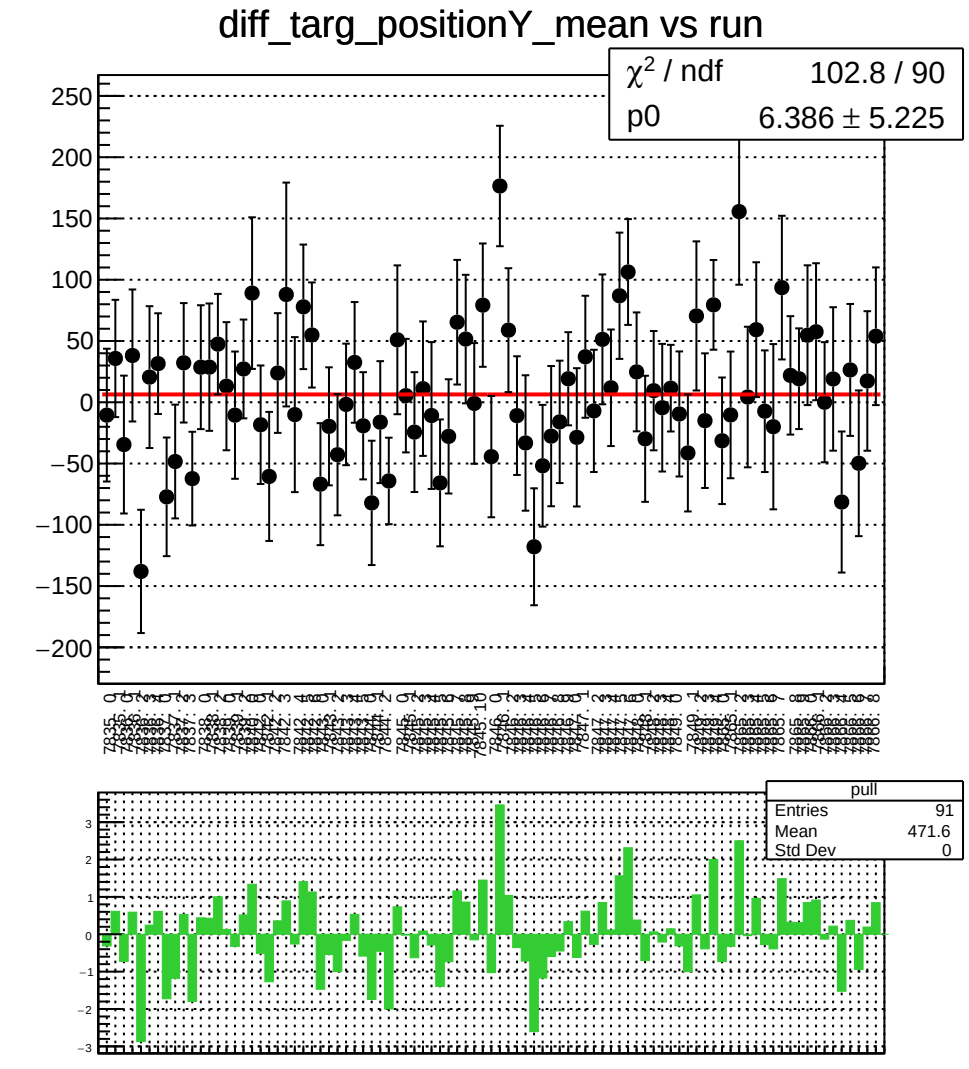

diff_dispE_bpm12X_mean vs run
χ² / ndf 104.5 / 90
p0 −0.02271 ± 0.01319
pull
Entries 91
Mean −84.49
Std Dev 0
pull1D
Entries 91
Mean 0.01435
Std Dev 1.072

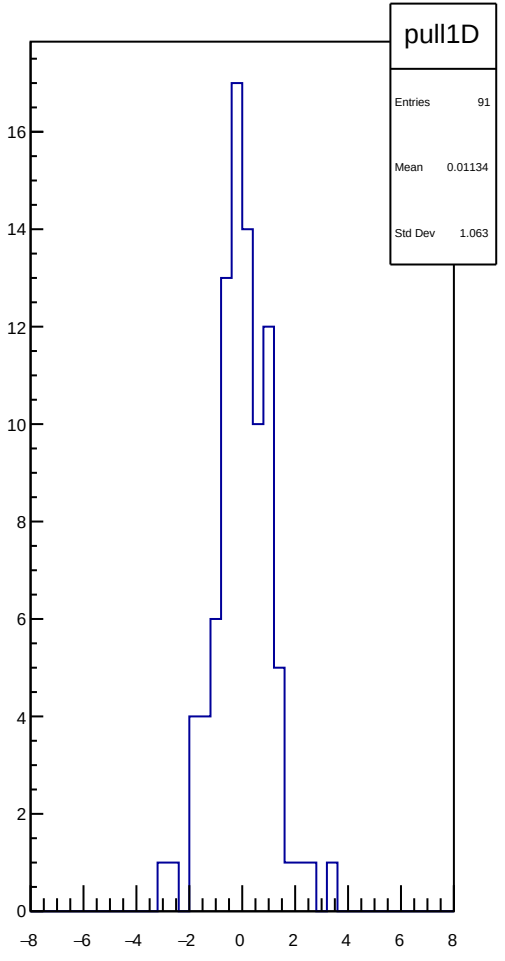

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 1.946e+04 / 90
p0 12.29 ± 0.009325
18
17
16
15
14
13
12
11
10

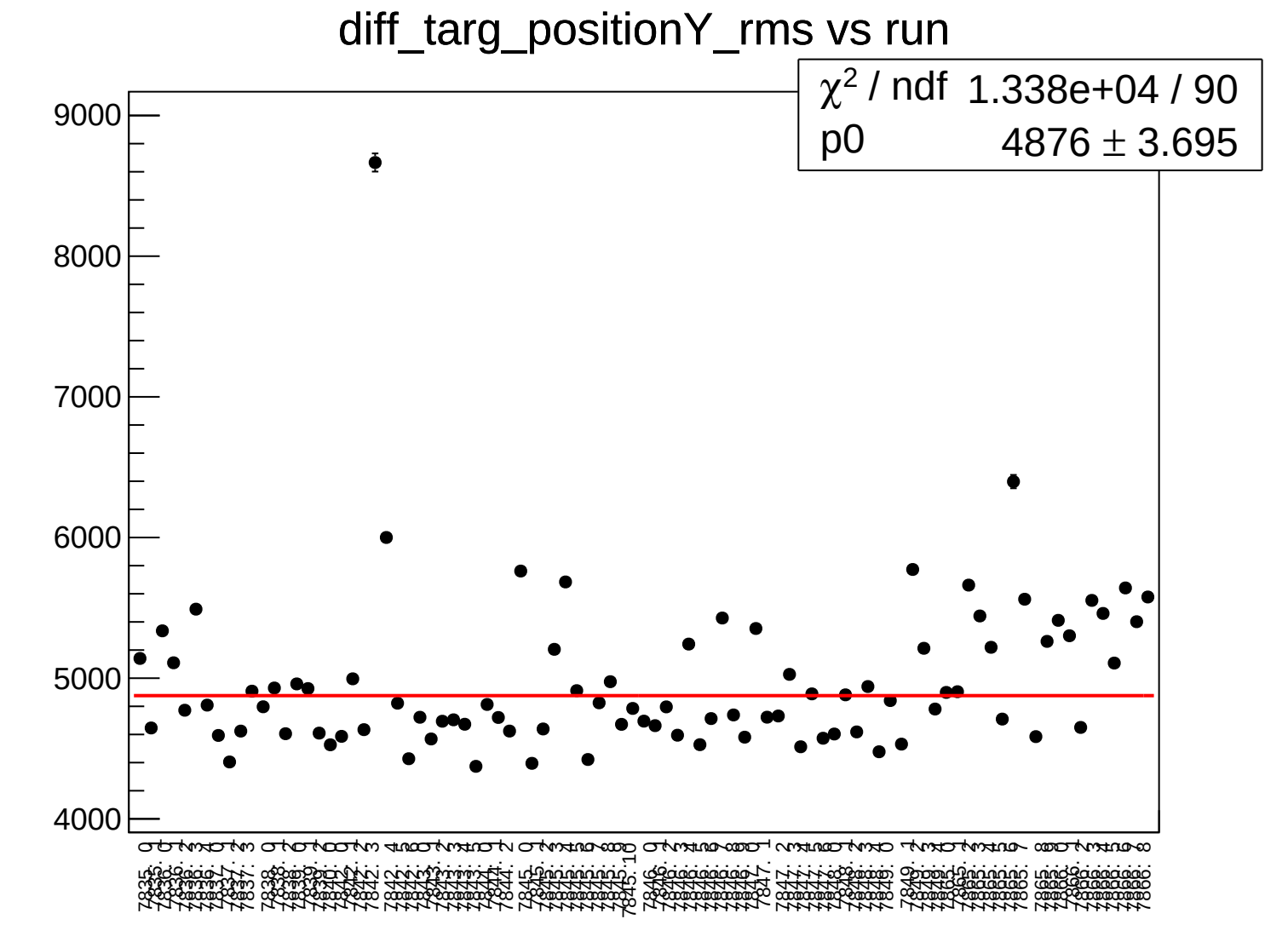

diff_targ_positionX_mean vs run
χ² / ndf 80.07 / 90
p0 −1.987 ± 28.19
1000
500
0
−500
−1000
pull
Entries 91
Mean 96.37
Std Dev 0
2
1
0
−1
−2

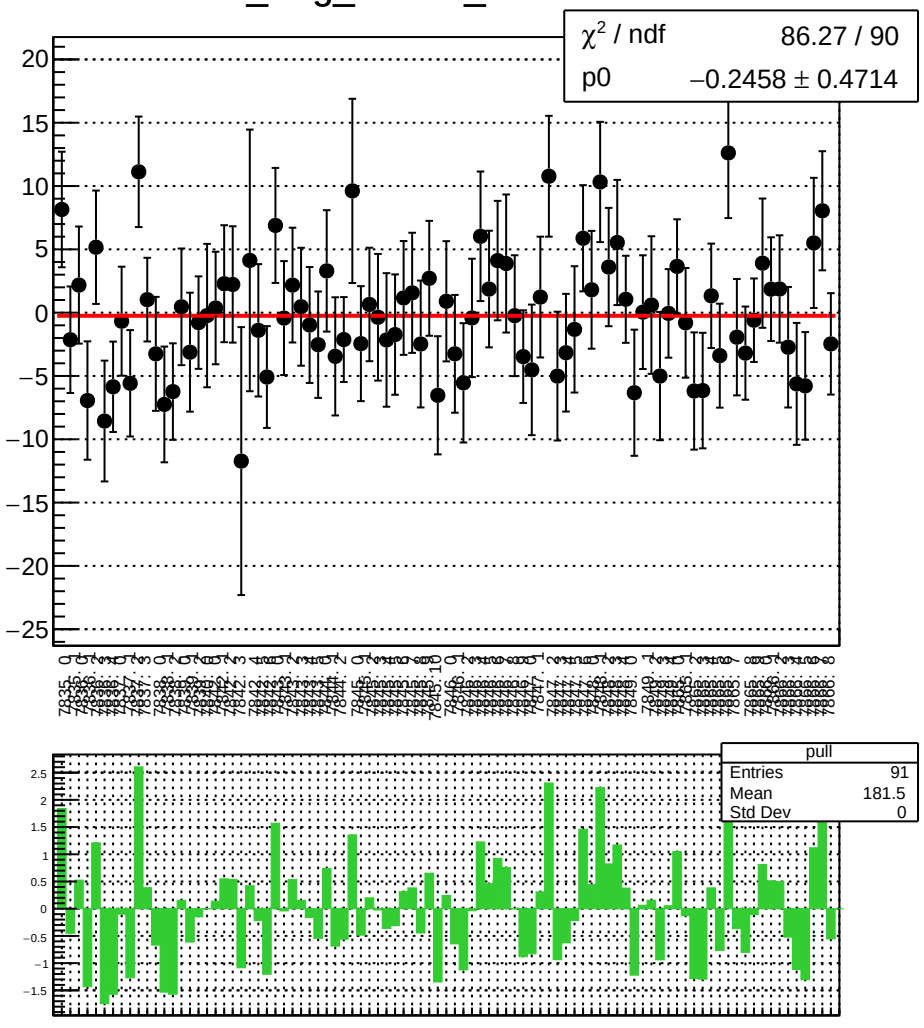

pull1D
Entries 91
Mean −0.01571
Std Dev 0.9379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

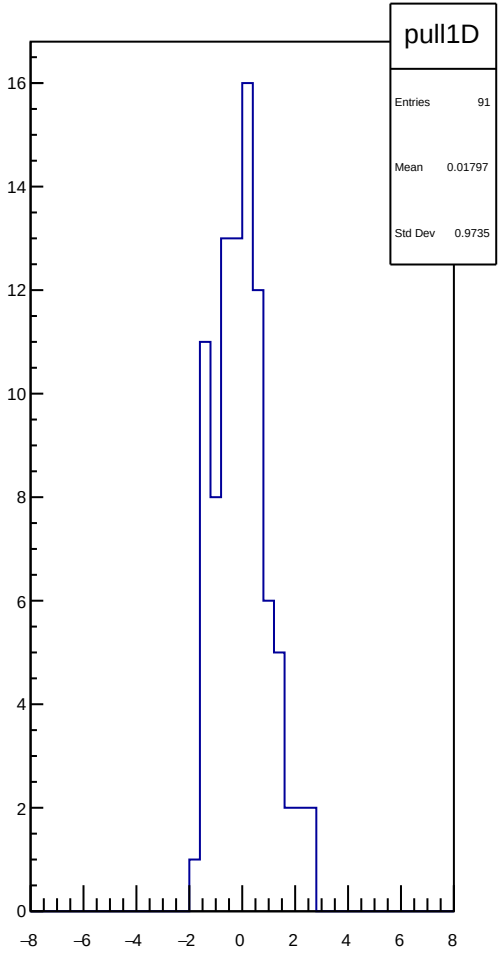

diff_targ_positionX_rms vs run
χ² / ndf 1.513e+04 / 90
p0 2.63e+04 ± 19.94
36000
34000
32000
30000
28000
26000
24000
22000

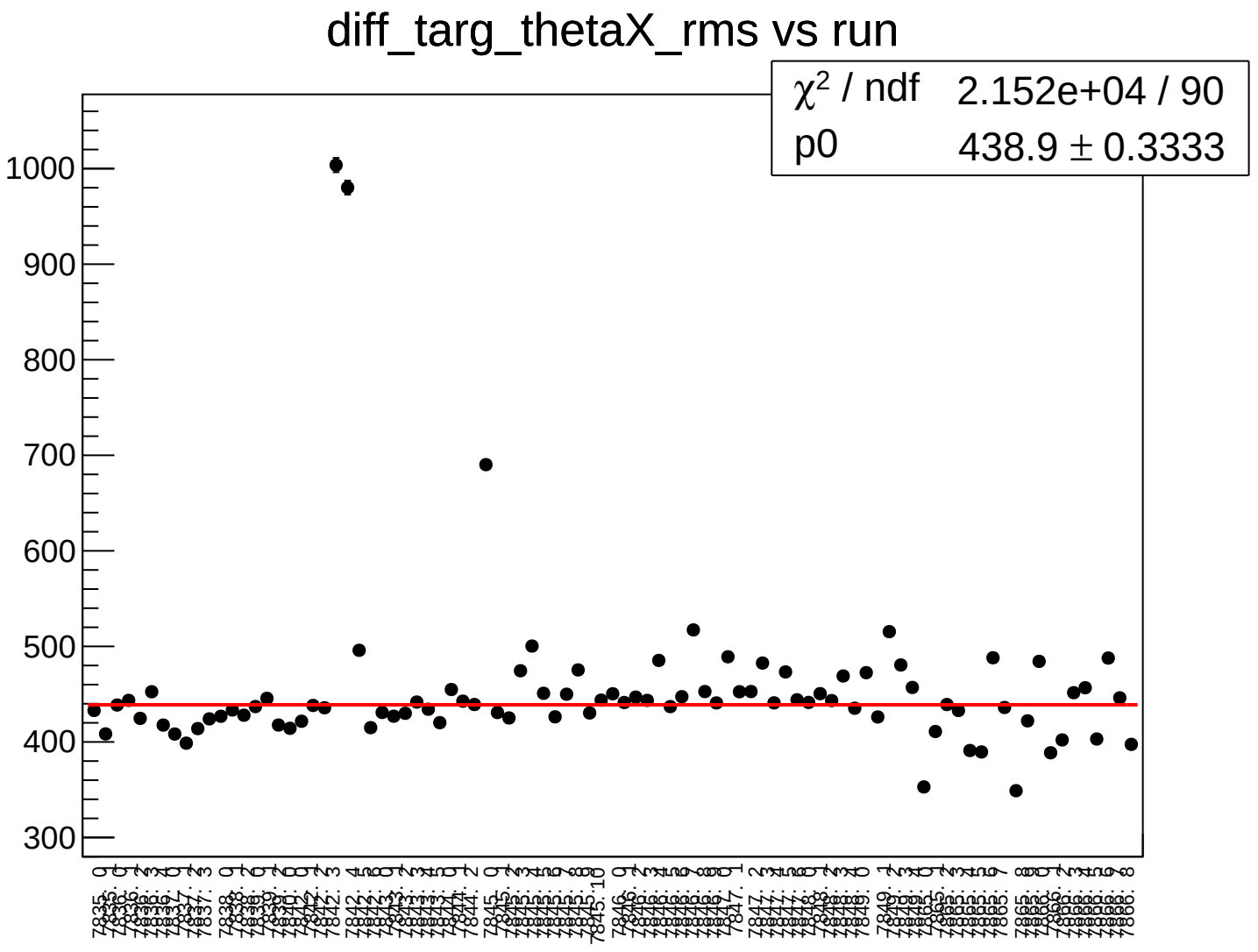

diff_targ_positionY_mean vs run
χ² / ndf 102.8 / 90
p0 6.386 ± 5.225
pull
Entries 91
Mean 471.6
Std Dev 0

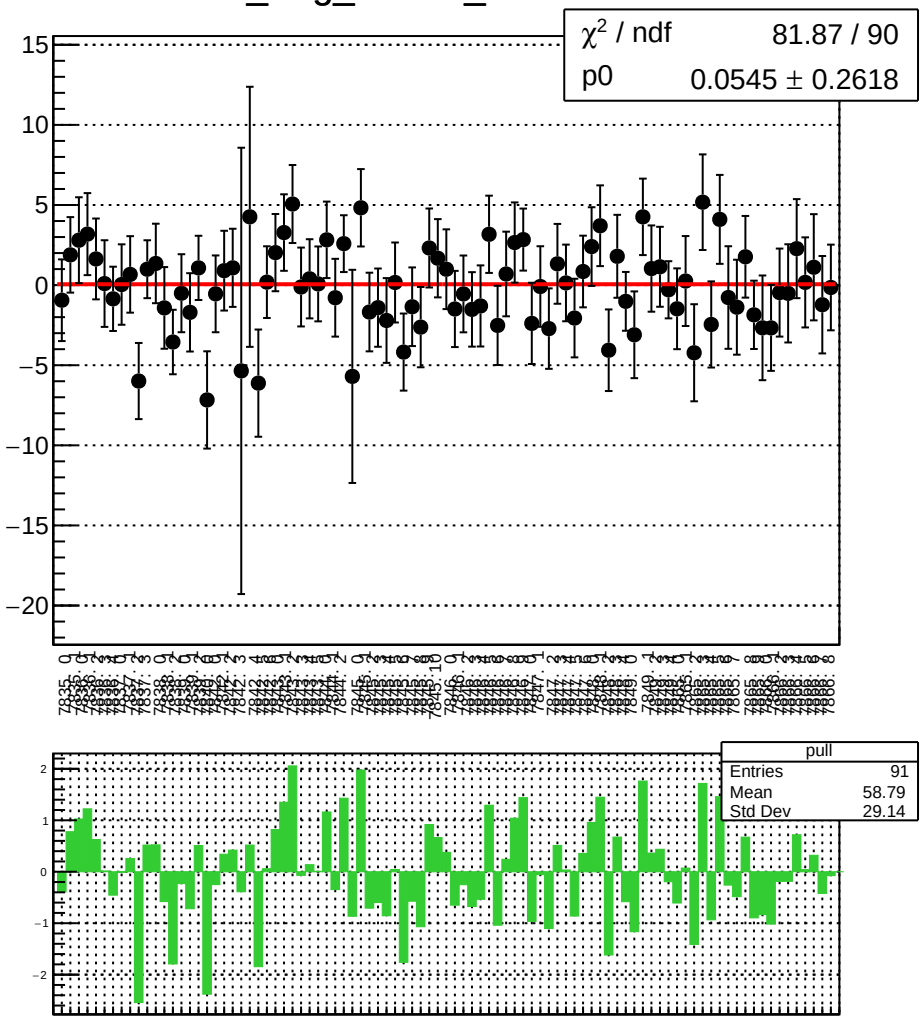

pull1D
Entries 91
Mean 0.01134
Std Dev 1.063

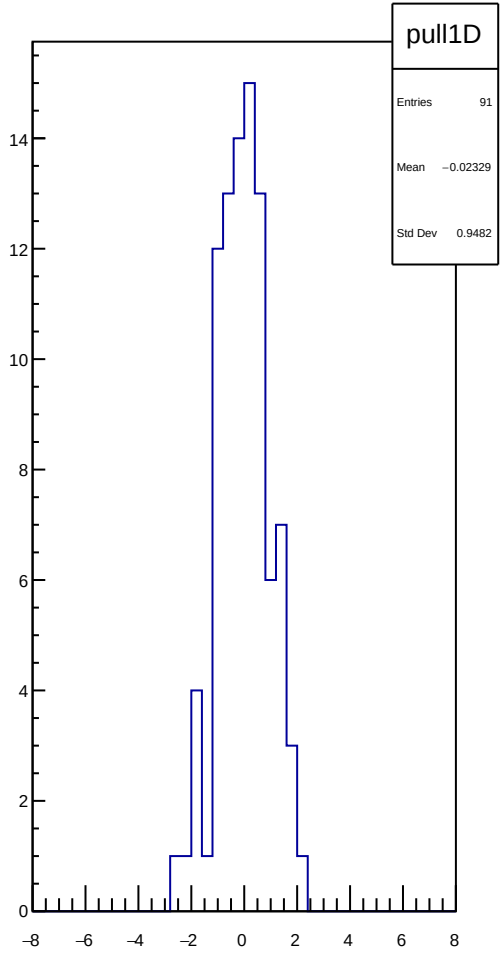

diff_targ_positionY_rms vs run
χ^2 / ndf 1.338e+04 / 90
p0 4876 ± 3.695
9000
8000
7000
6000
5000
4000

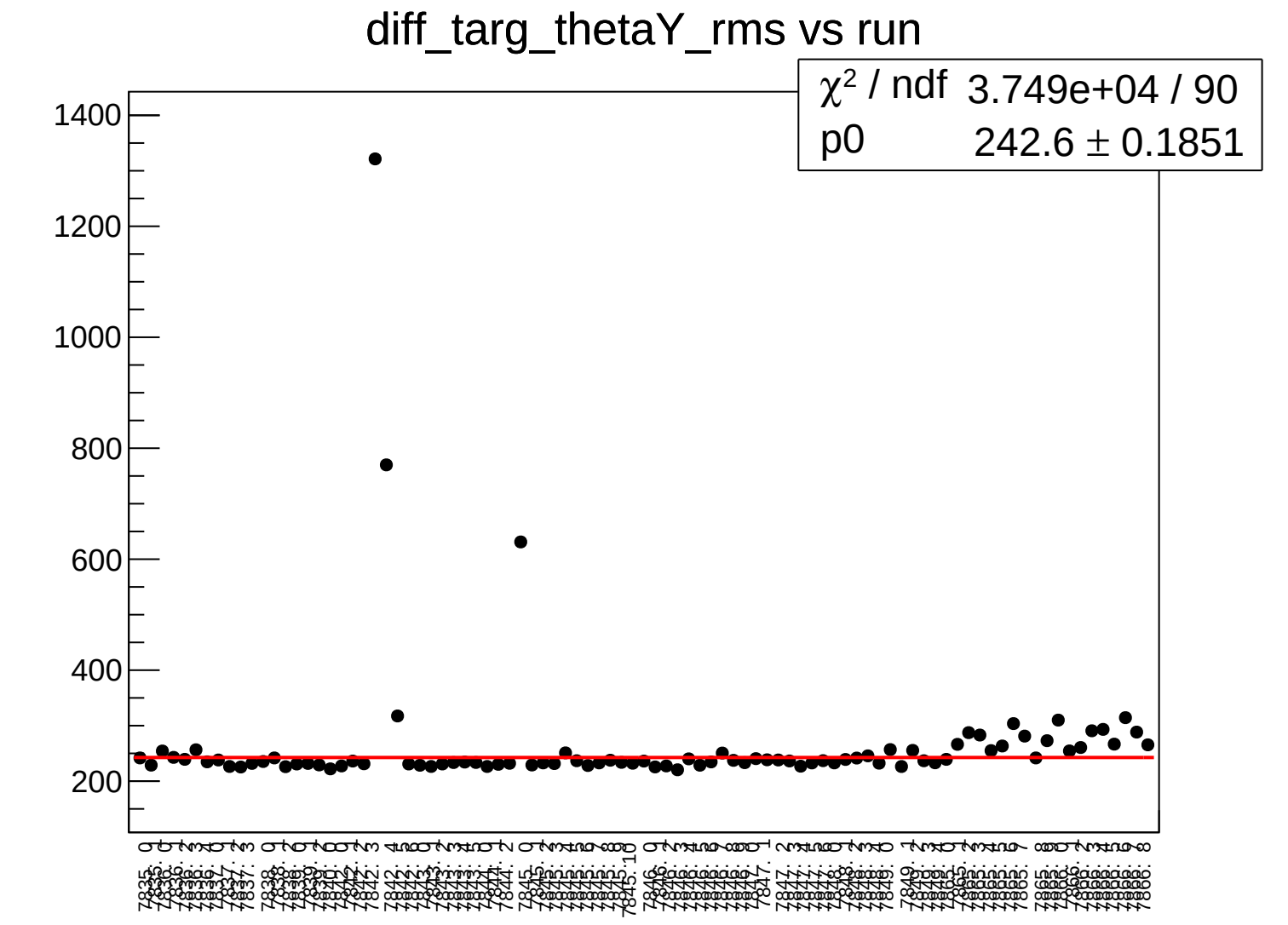

diff_targ_thetaX_mean vs run
χ² / ndf 86.27 / 90
p0 −0.2458 ± 0.4714
pull
Entries 91
Mean 181.5
Std Dev 0

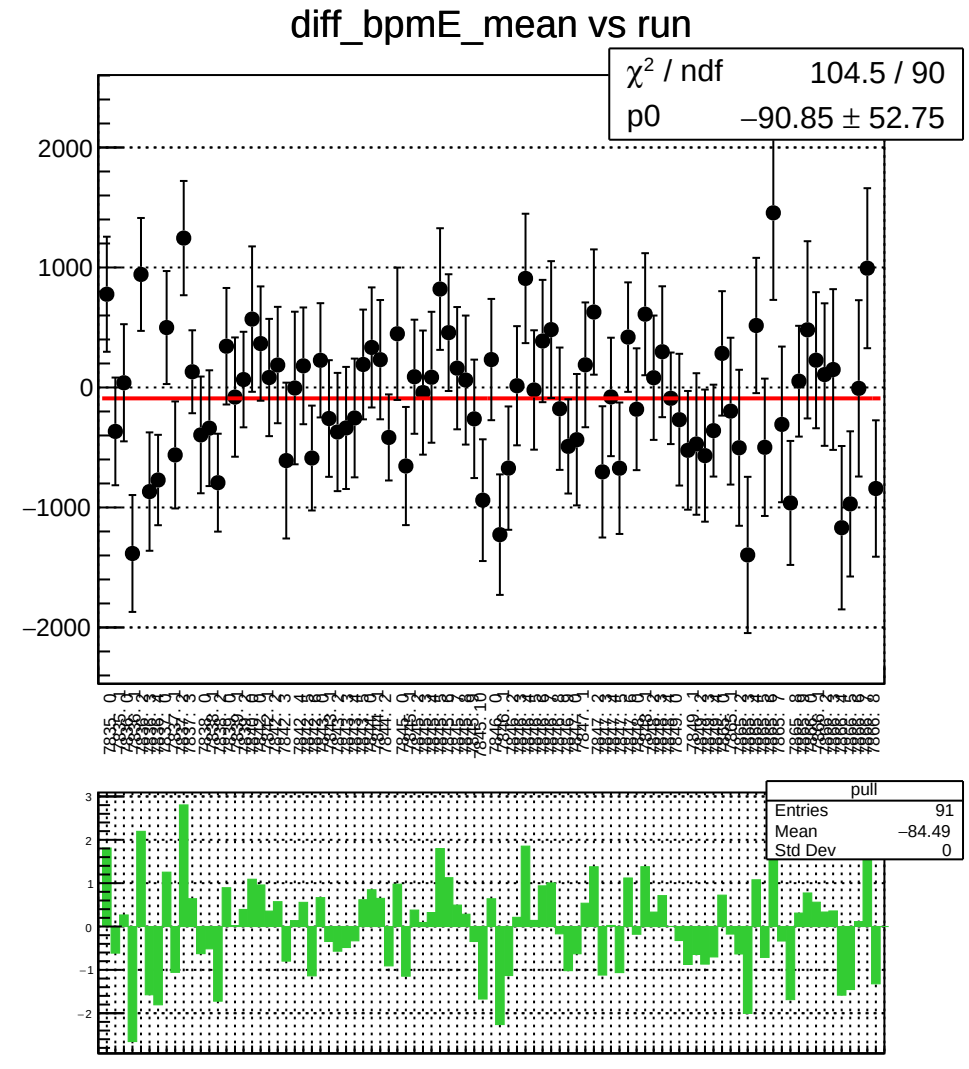

pull1D
Entries 91
Mean 0.01797
Std Dev 0.9735

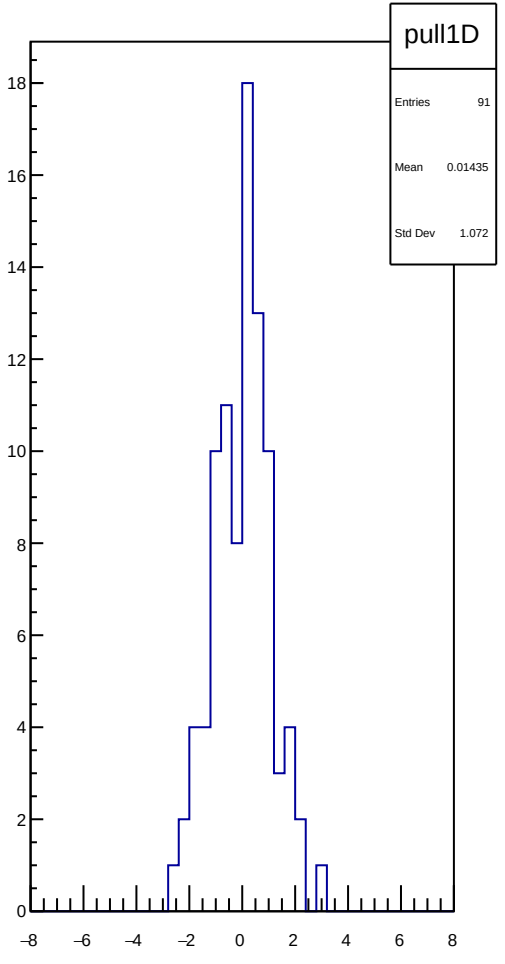

diff_targ_thetaX_rms vs run
χ² / ndf 2.152e+04 / 90
p0 438.9 ± 0.3333
1000
900
800
700
600
500
400
300

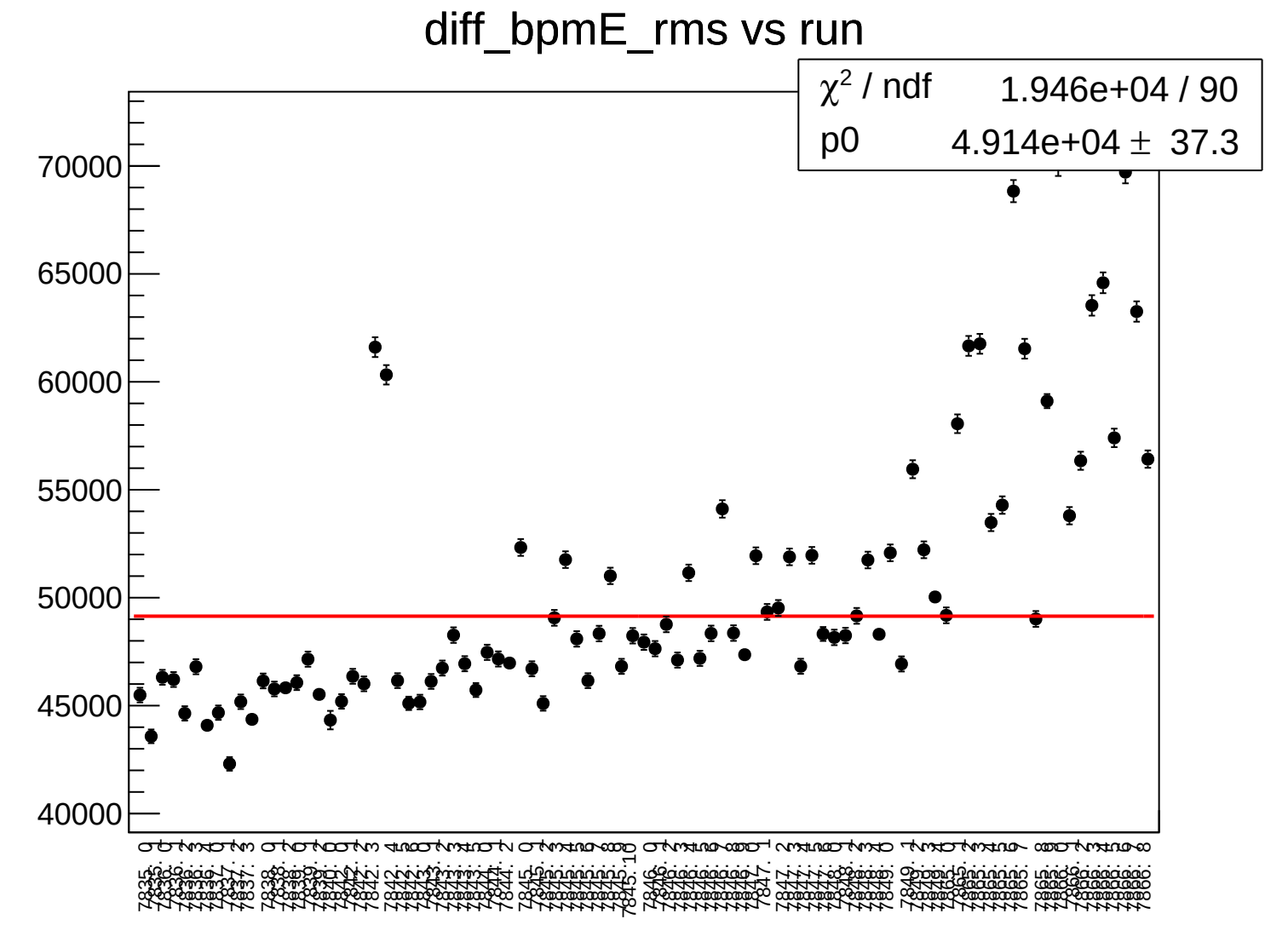

diff_targ_thetaY_mean vs run
χ² / ndf 81.87 / 90
p0 0.0545 ± 0.2618
pull
Entries 91
Mean 58.79
Std Dev 29.14

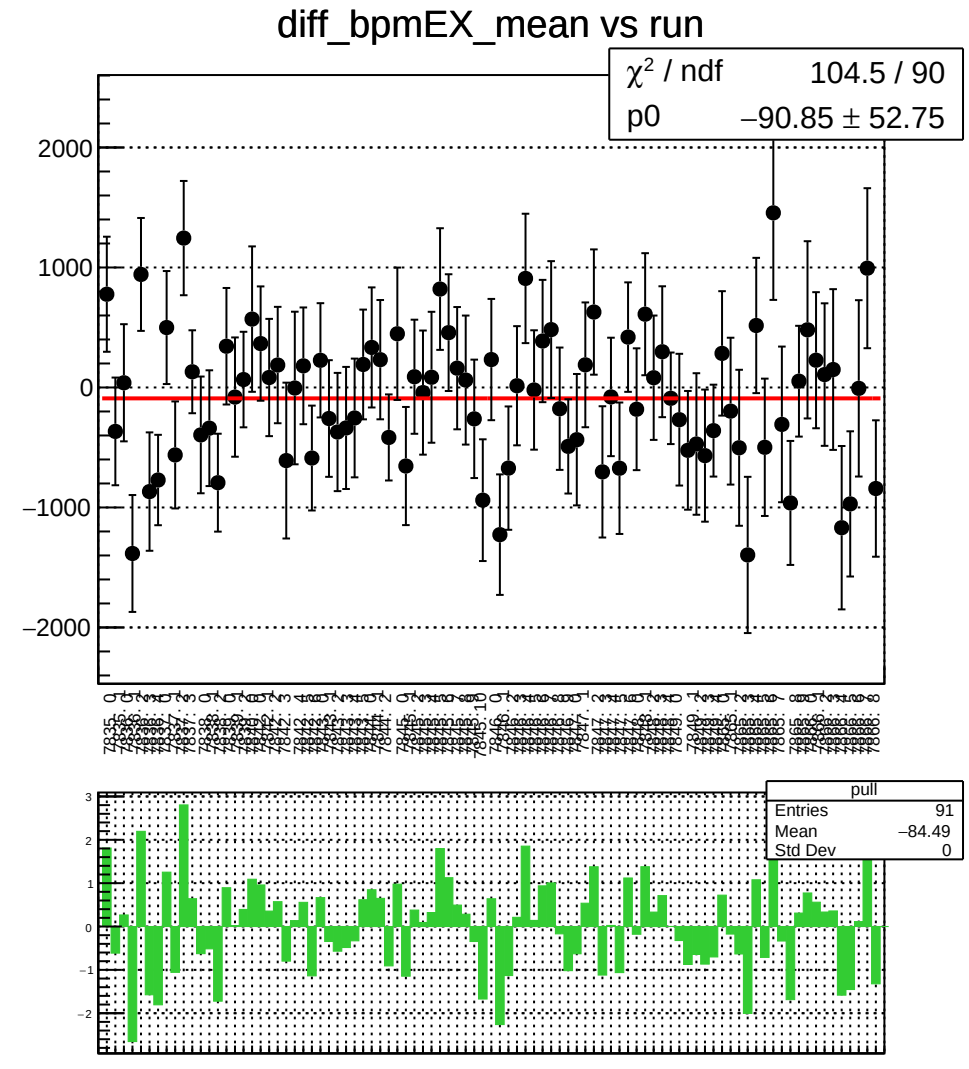

pull1D
Entries 91
Mean −0.02329
Std Dev 0.9482

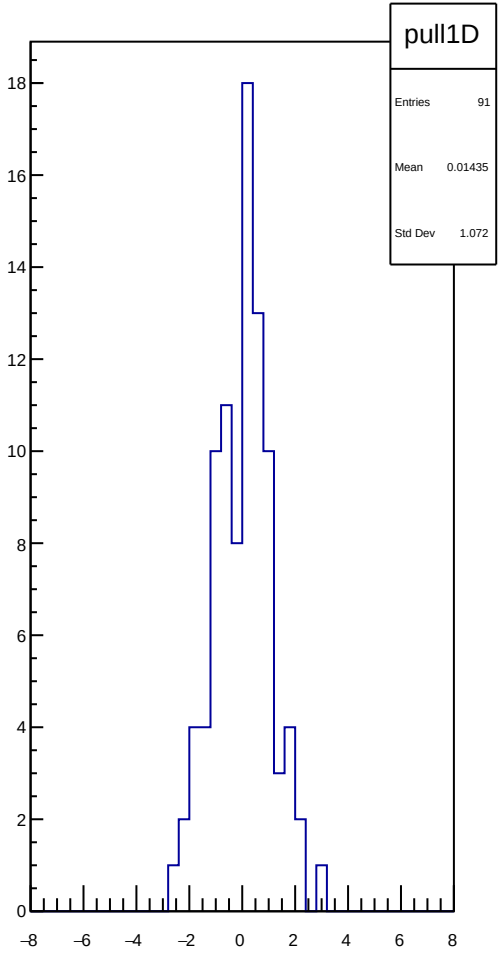

diff_targ_thetaY_rms vs run
χ² / ndf 3.749e+04 / 90
p0 242.6 ± 0.1851
1400
1200
1000
800
600
400
200

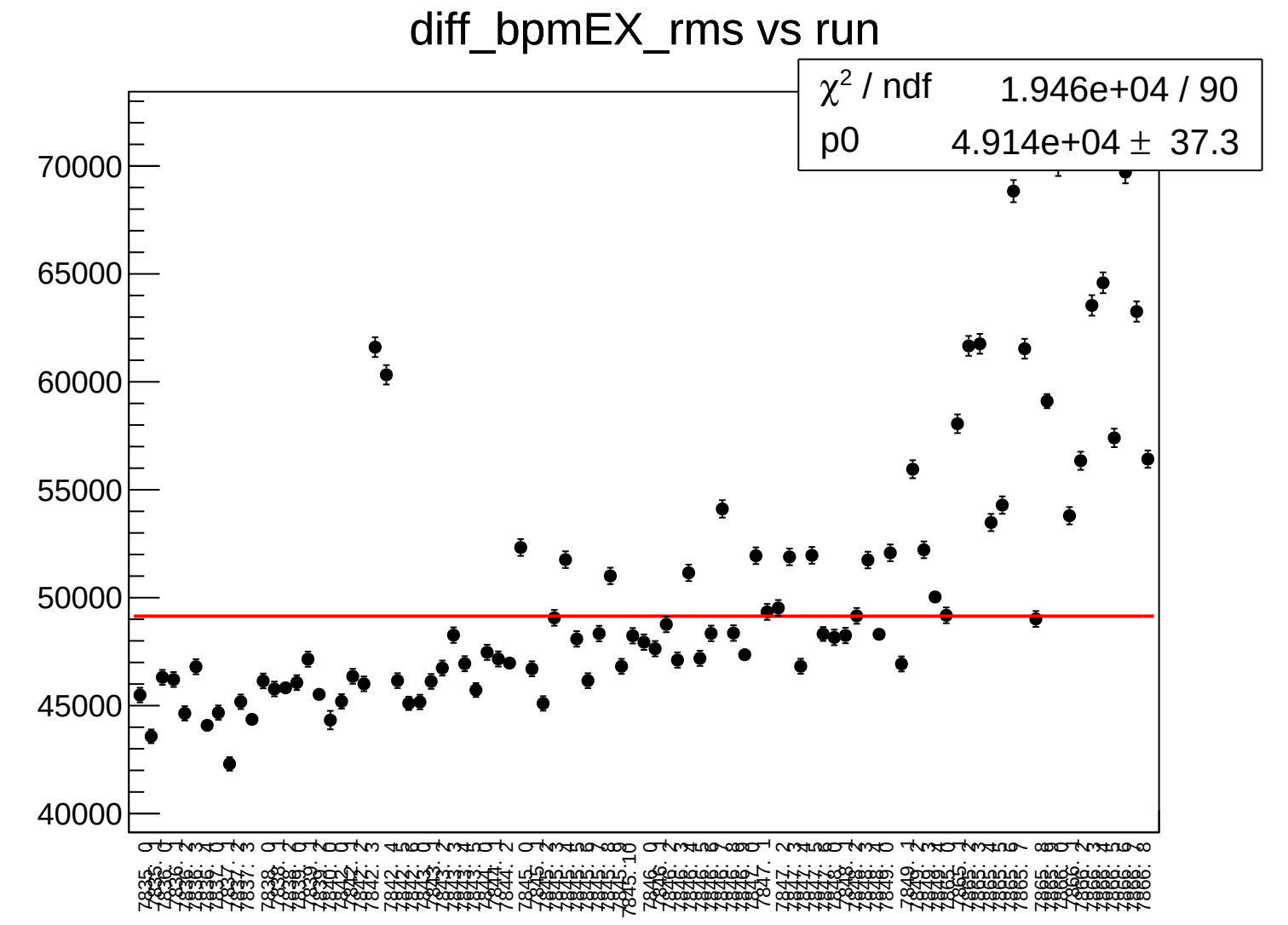

diff_bpmE_mean vs run
χ² / ndf 104.5 / 90
p0 −90.85 ± 52.75
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −84.49
Std Dev 0
3
2
1
0
−1
−2

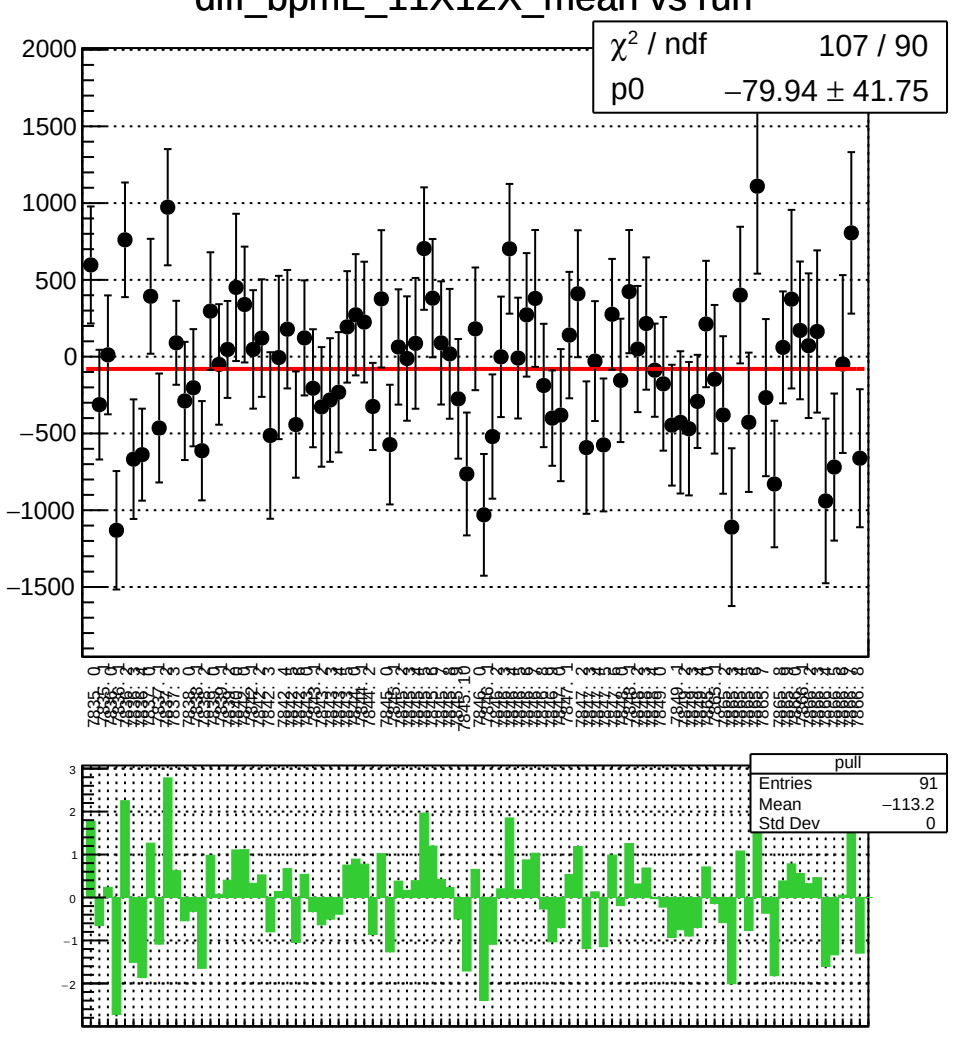

pull1D
Entries 91
Mean 0.01435
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

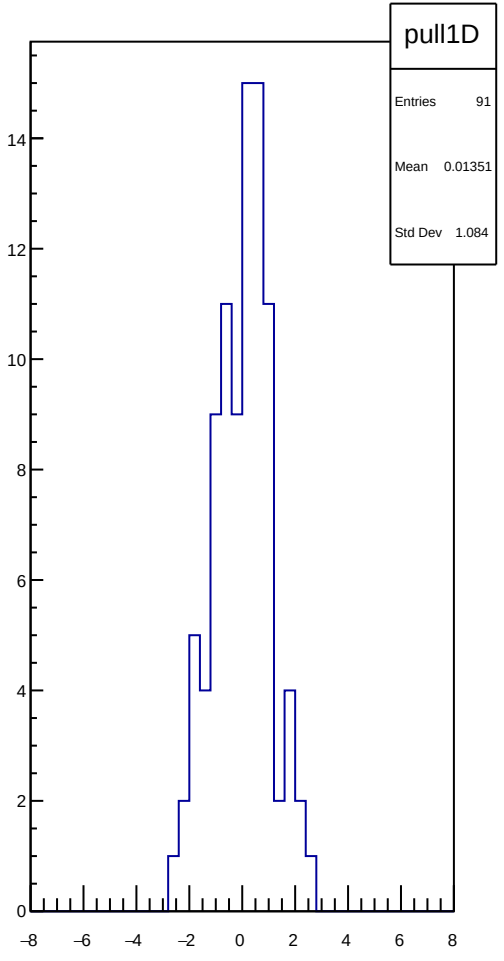

diff_bpmE_rms vs run
χ^2 / ndf 1.946e+04 / 90
p0 4.914e+04 ± 37.3
70000
65000
60000
55000
50000
45000
40000

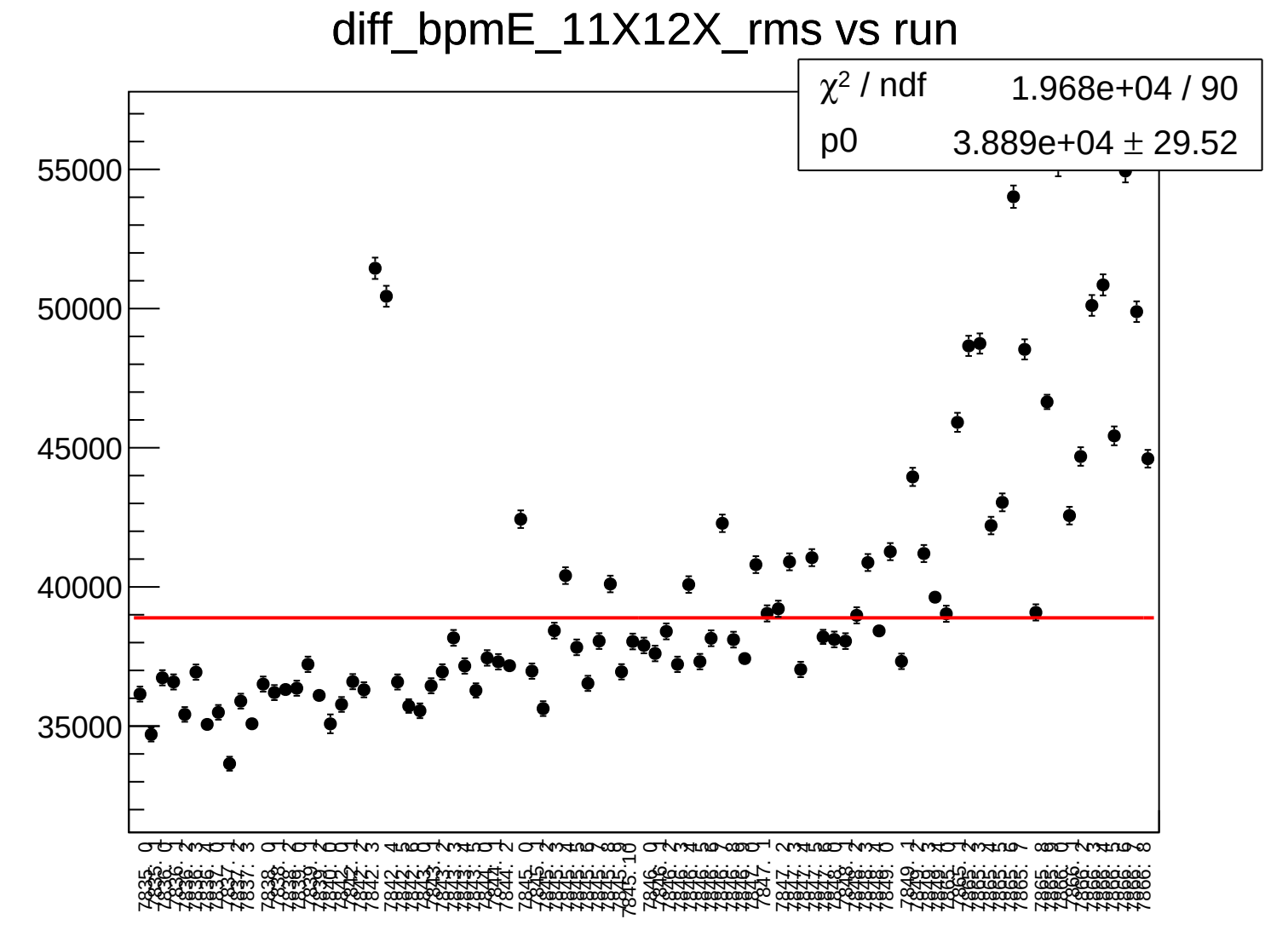

diff_bpmEX_mean vs run
χ² / ndf 104.5 / 90
p0 −90.85 ± 52.75
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −84.49
Std Dev 0
3
2
1
0
−1
−2

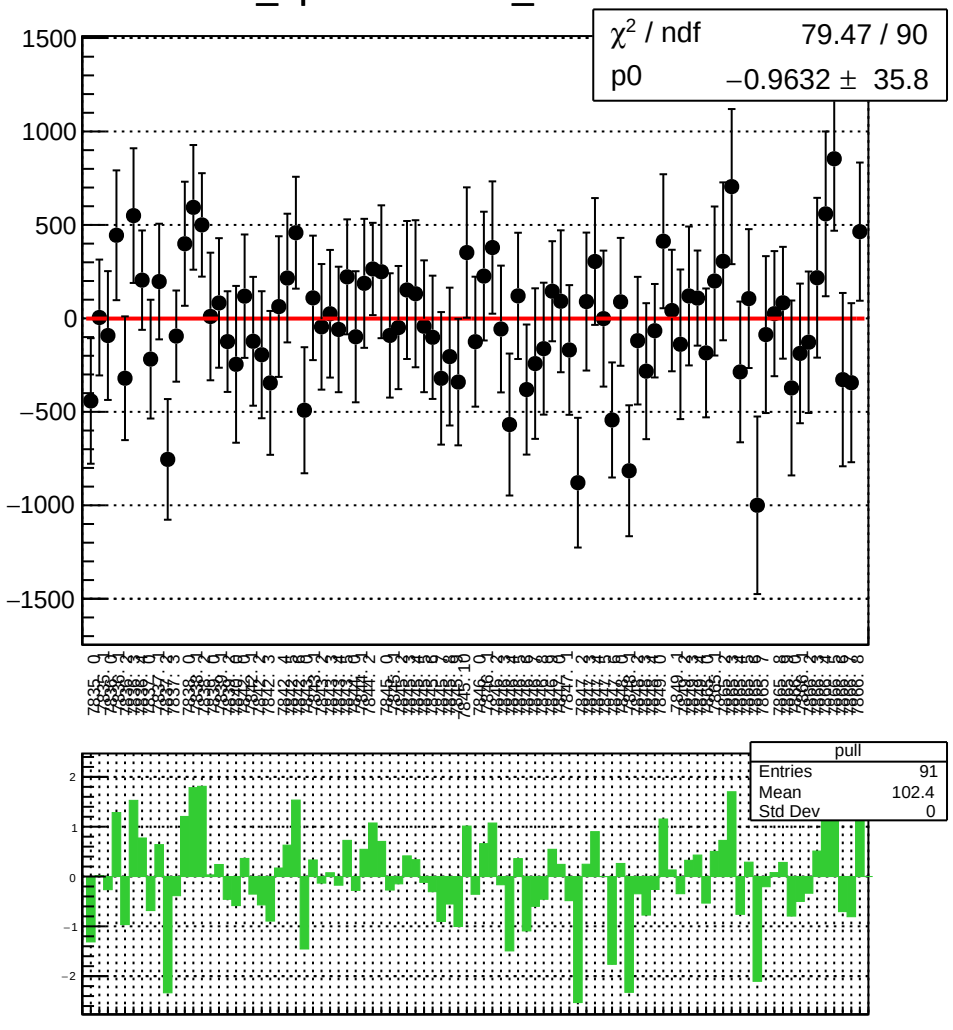

pull1D
Entries 91
Mean 0.01435
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

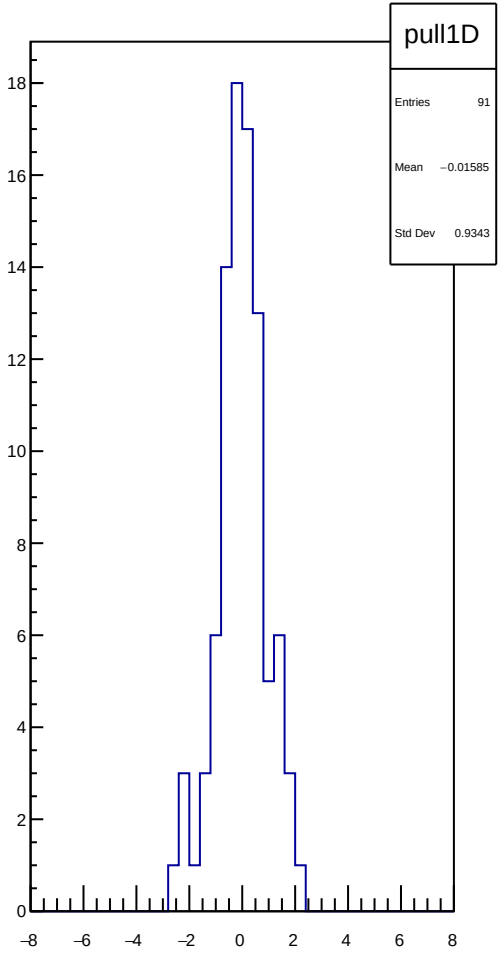

diff_bpmEX_rms vs run
χ^2 / ndf 1.946e+04 / 90
p0 4.914e+04 ± 37.3
70000
65000
60000
55000
50000
45000
40000

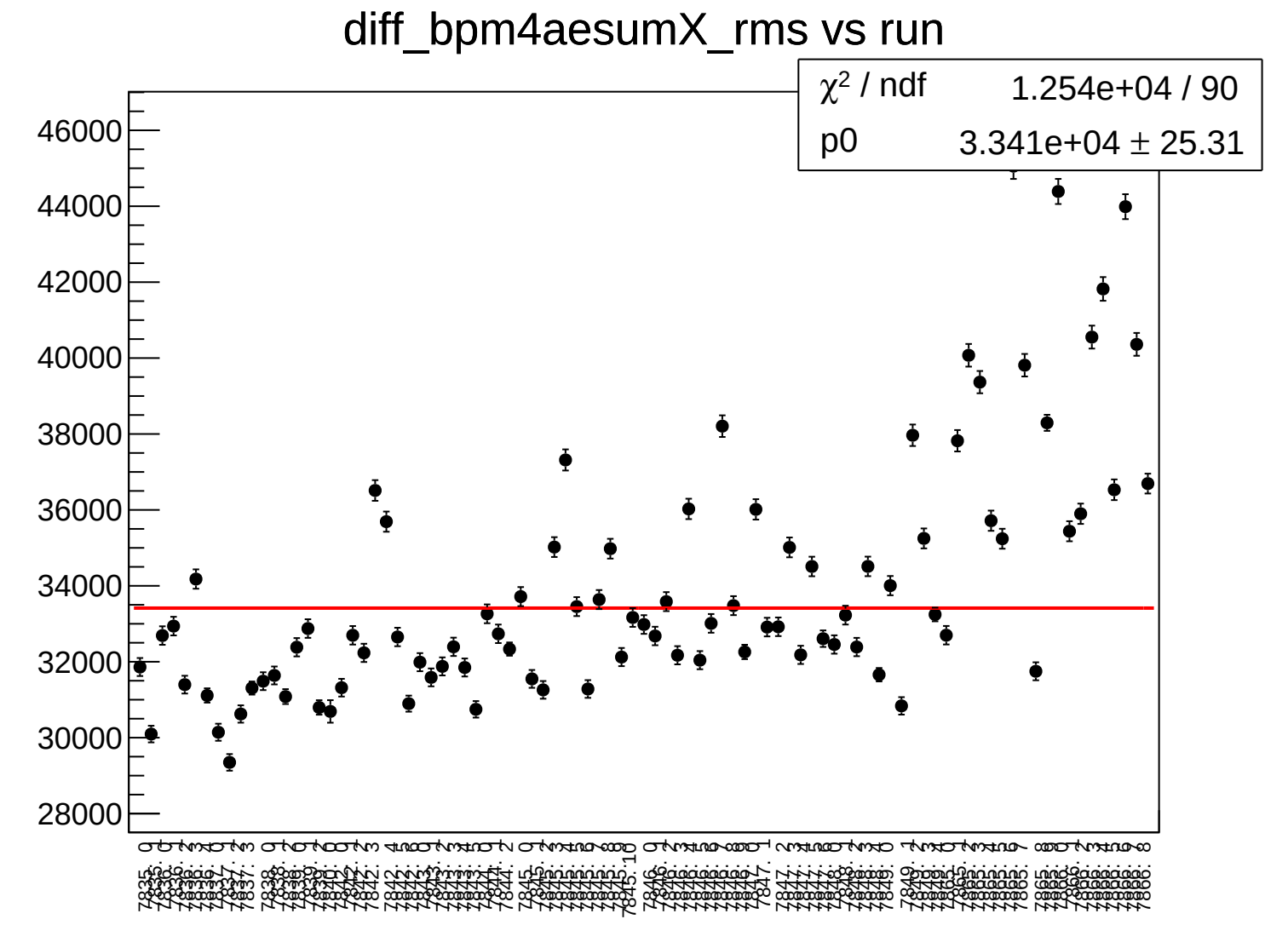

diff_bpmE_11X12X_mean vs run
χ² / ndf 107 / 90
p0 −79.94 ± 41.75
pull
Entries 91
Mean −113.2
Std Dev 0

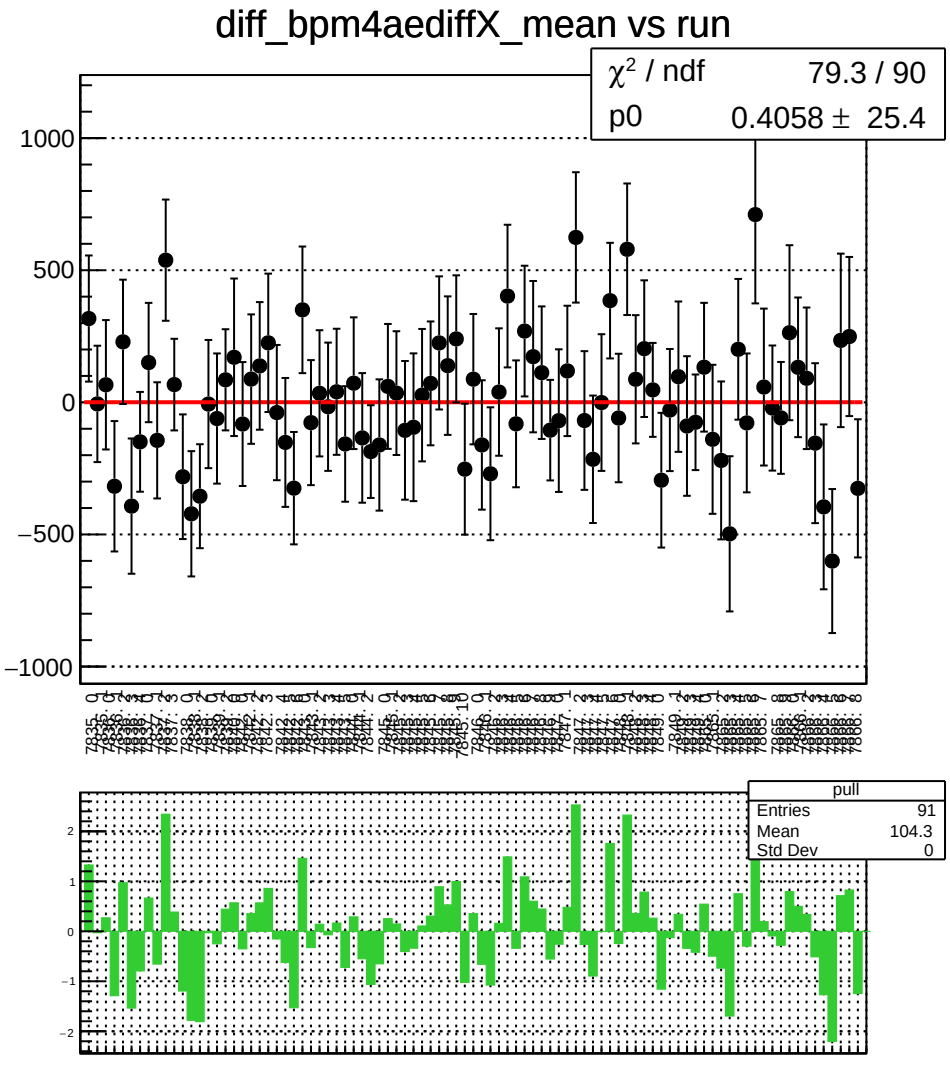

pull1D
Entries 91
Mean 0.01351
Std Dev 1.084

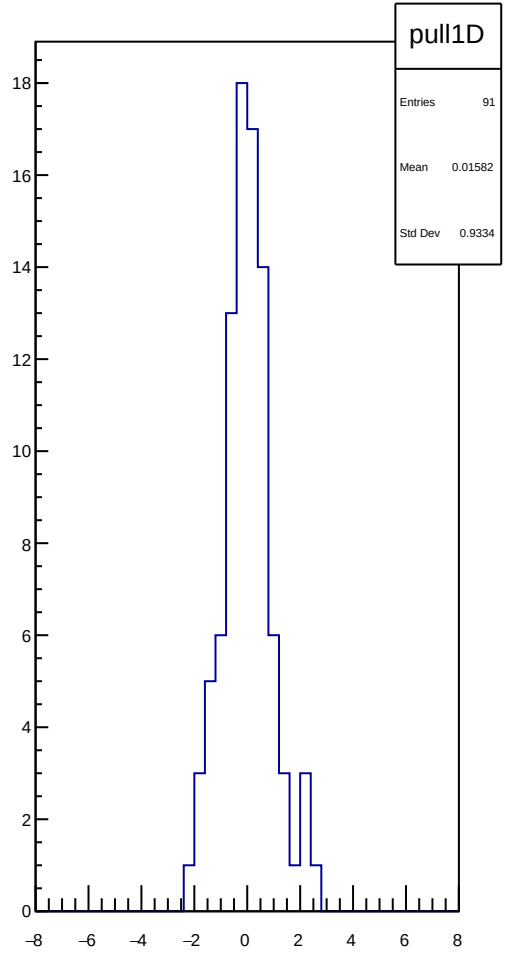

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.968e+04 / 90
p0 3.889e+04 ± 29.52
55000
50000
45000
40000
35000

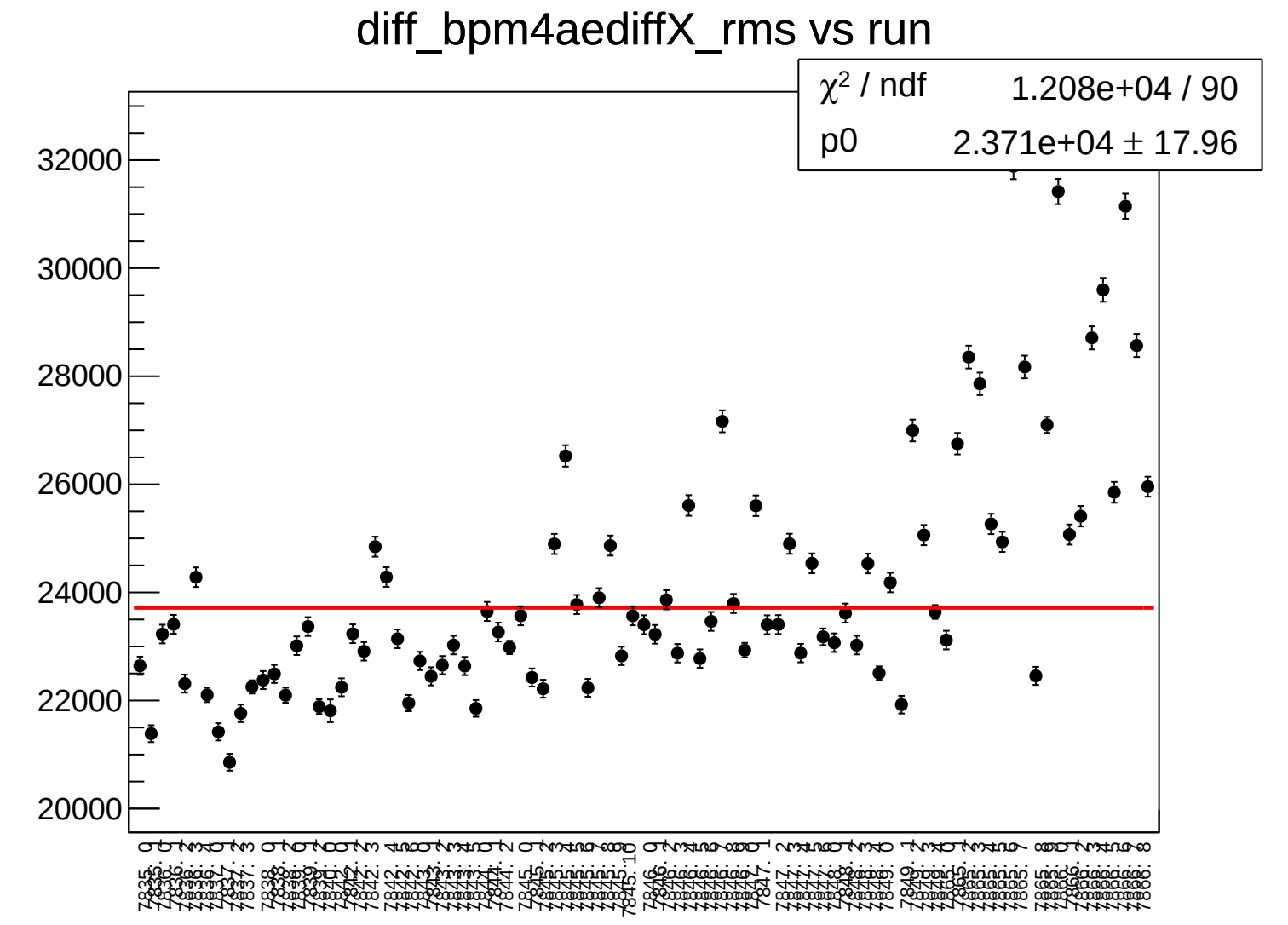

diff_bpm4aesumX_mean vs run
χ² / ndf 79.47 / 90
p0 −0.9632 ± 35.8
pull
Entries 91
Mean 102.4
Std Dev 0

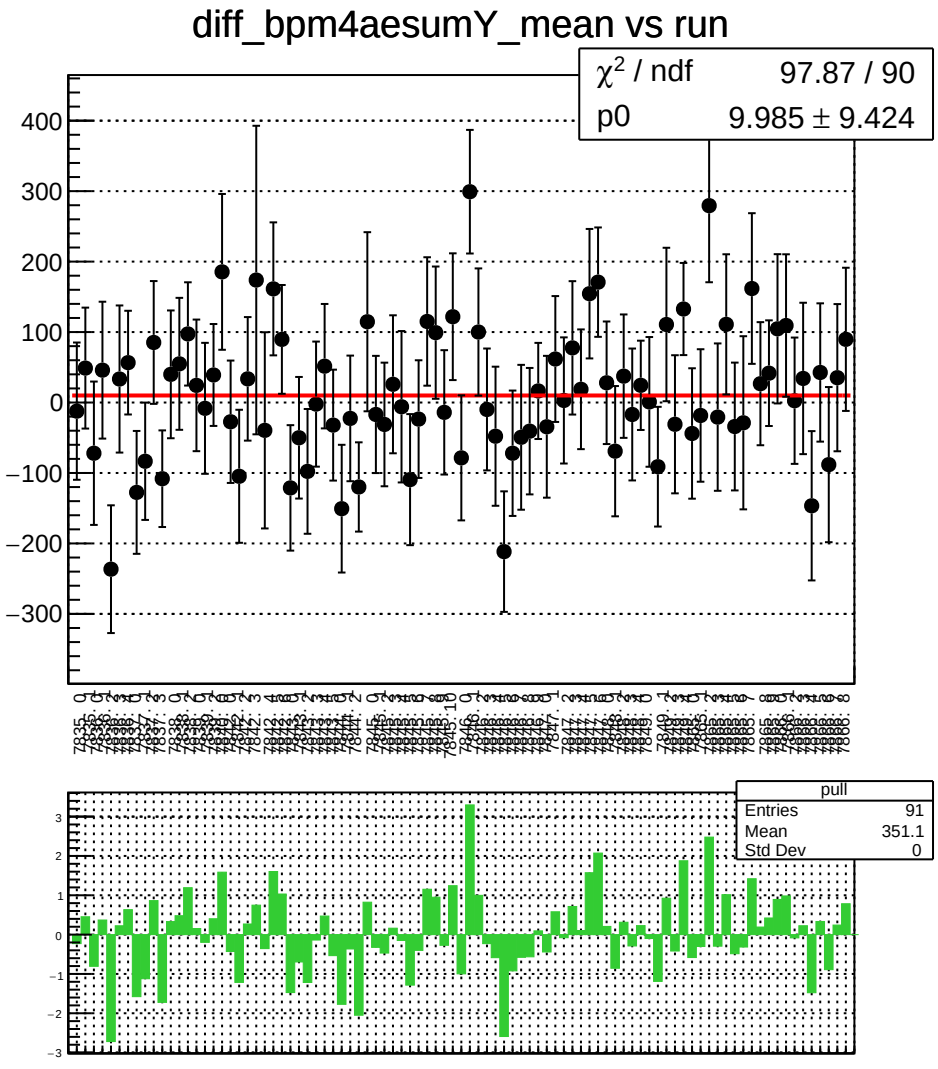

pull1D
Entries 91
Mean −0.01585
Std Dev 0.9343

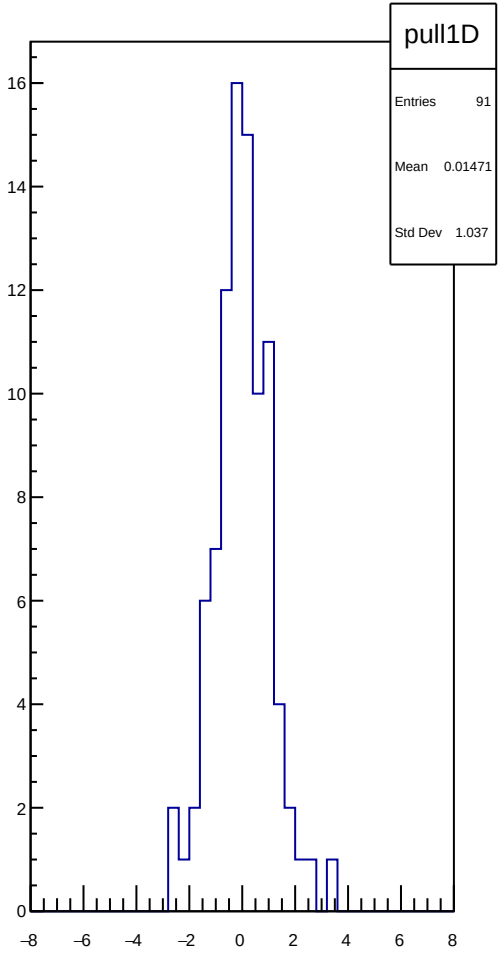

diff_bpm4aesumX_rms vs run
χ² / ndf 1.254e+04 / 90
p0 3.341e+04 ± 25.31
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

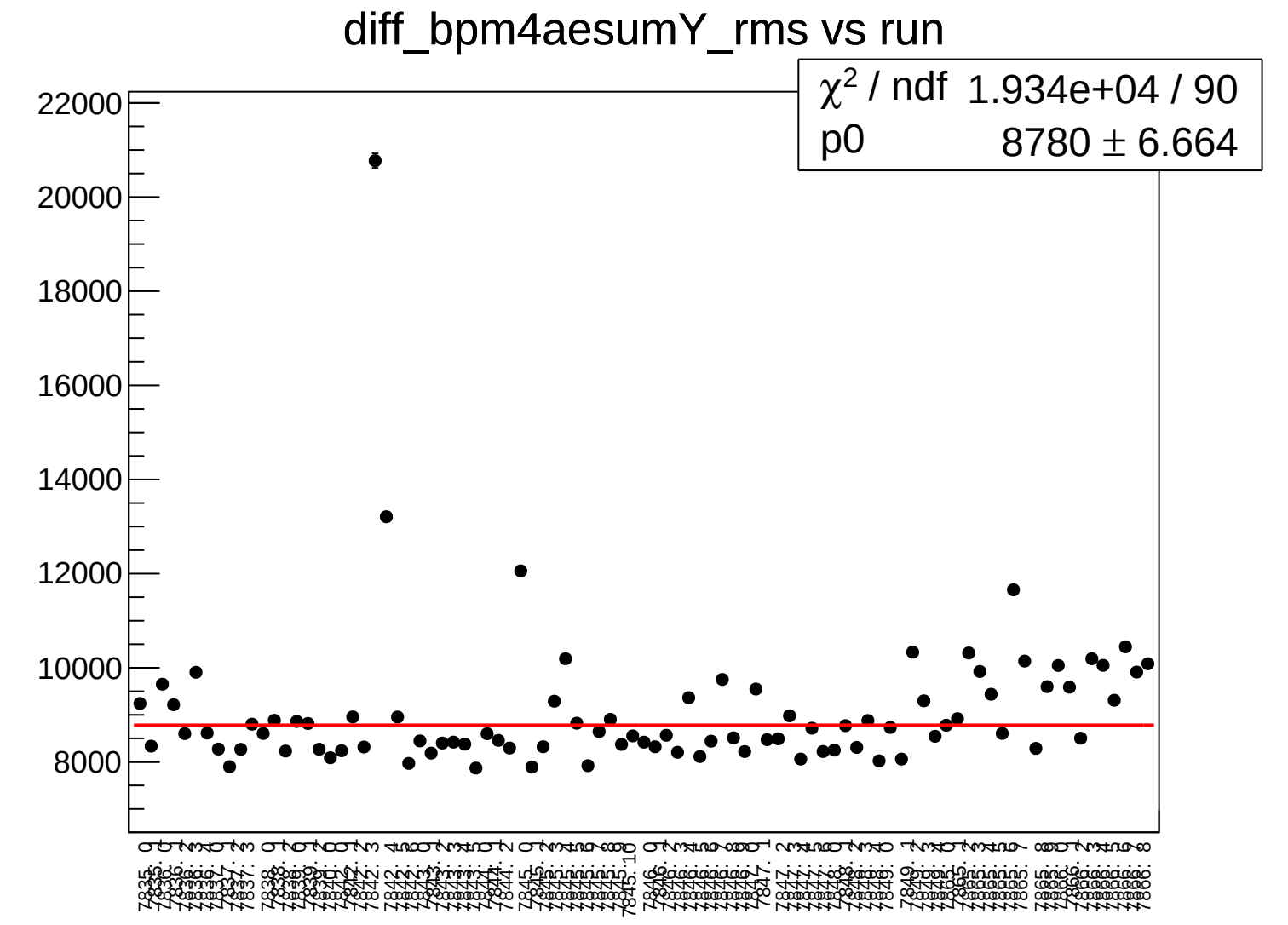

diff_bpm4aediffX_mean vs run
χ² / ndf 79.3 / 90
p0 0.4058 ± 25.4
1000
500
0
−500
−1000
pull
Entries 91
Mean 104.3
Std Dev 0
2
1
0
−1
−2

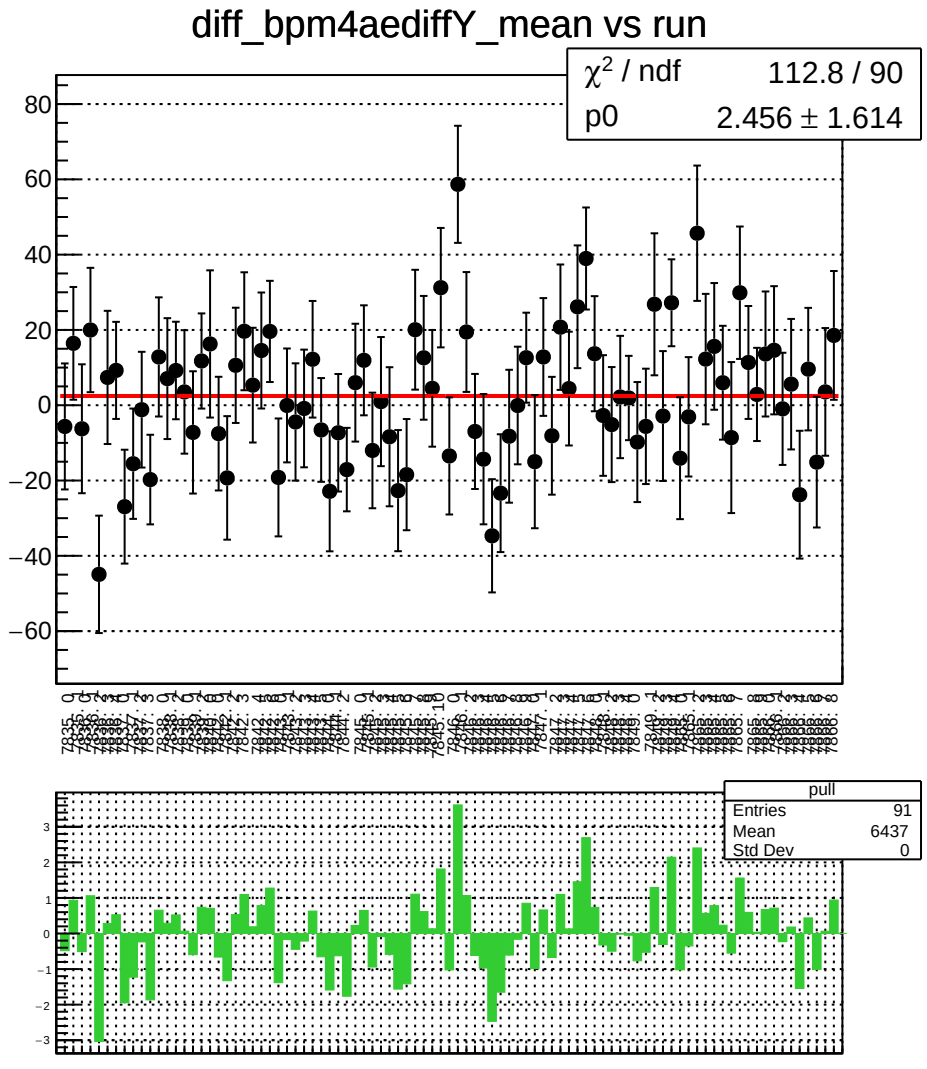

pull1D
Entries 91
Mean 0.01582
Std Dev 0.9334
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

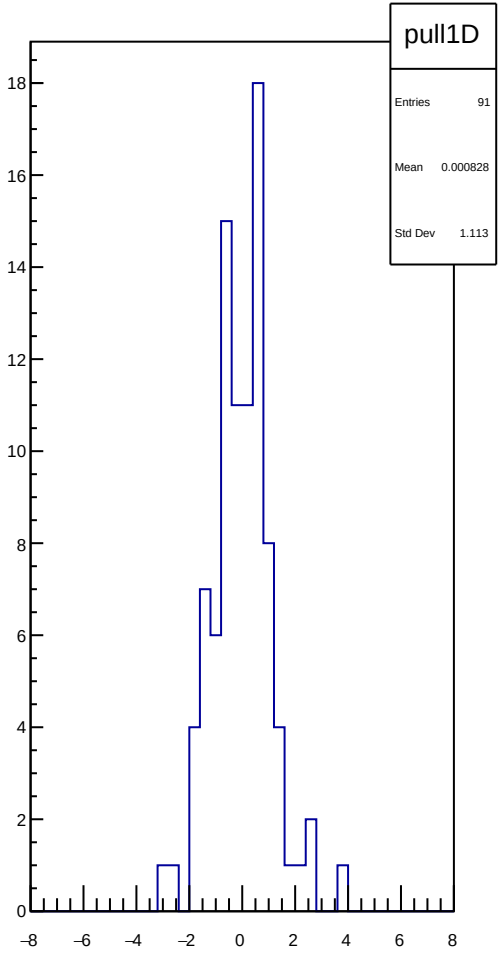

diff_bpm4aediffX_rms vs run
χ² / ndf 1.208e+04 / 90
p0 2.371e+04 ± 17.96
32000
30000
28000
26000
24000
22000
20000

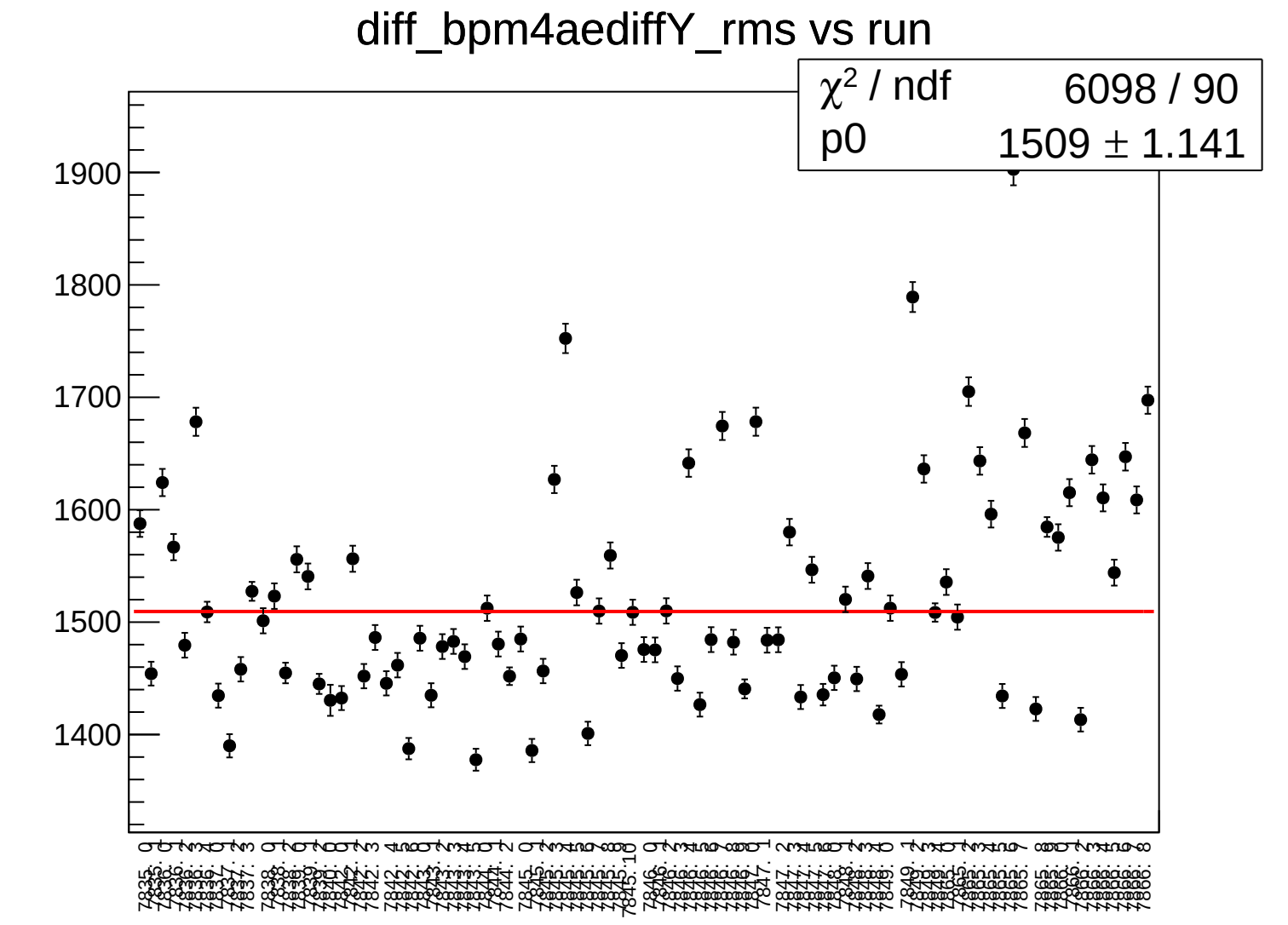

diff_bpm4aesumY_mean vs run
χ² / ndf 97.87 / 90
p0 9.985 ± 9.424
pull
Entries 91
Mean 351.1
Std Dev 0

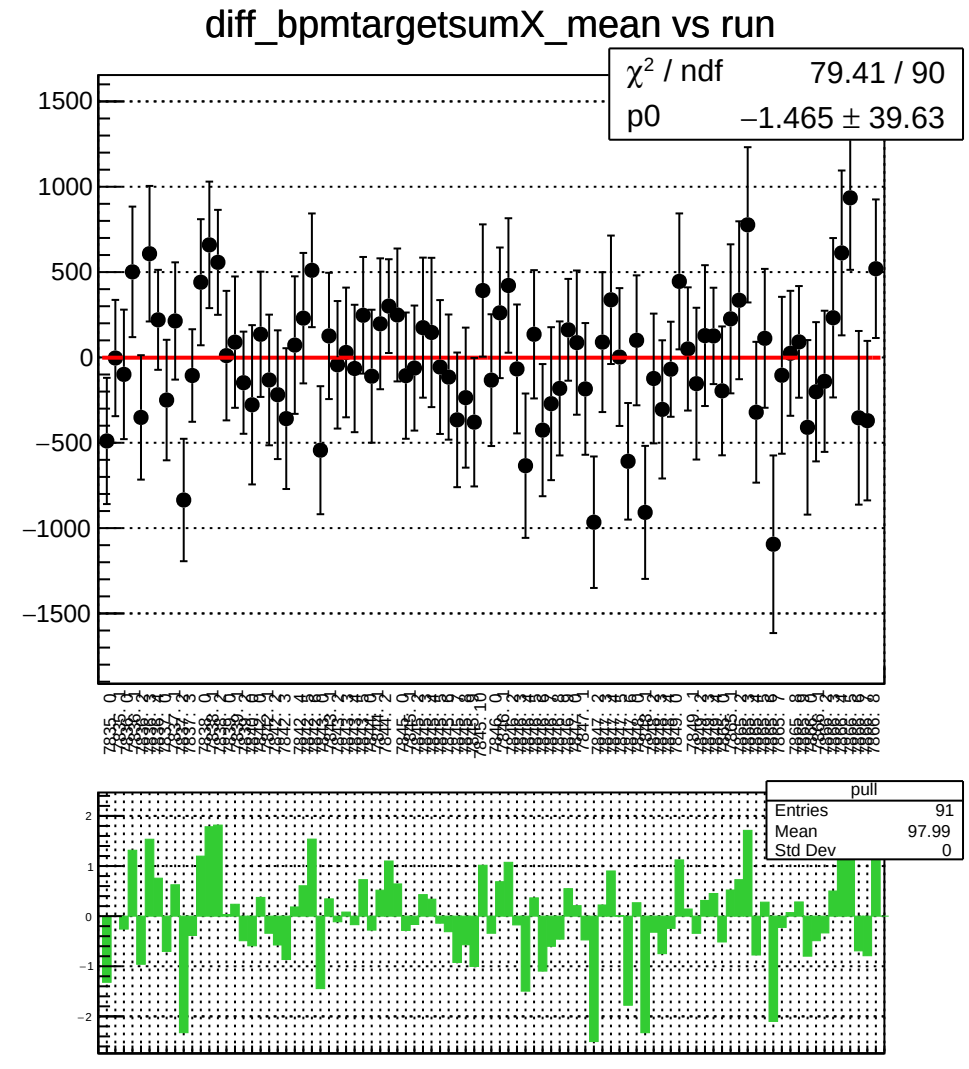

pull1D
Entries 91
Mean 0.01471
Std Dev 1.037

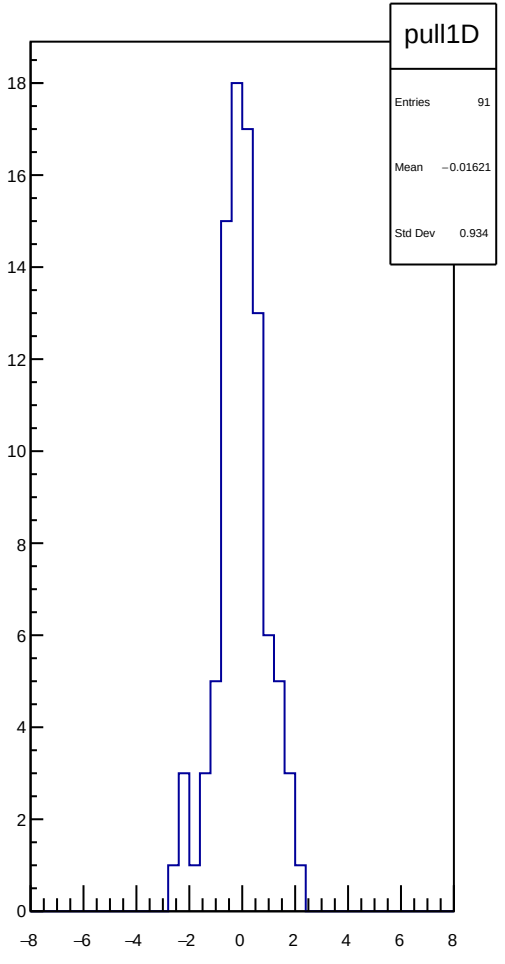

diff_bpm4aesumY_rms vs run
χ² / ndf 1.934e+04 / 90
p0 8780 ± 6.664
22000
20000
18000
16000
14000
12000
10000
8000

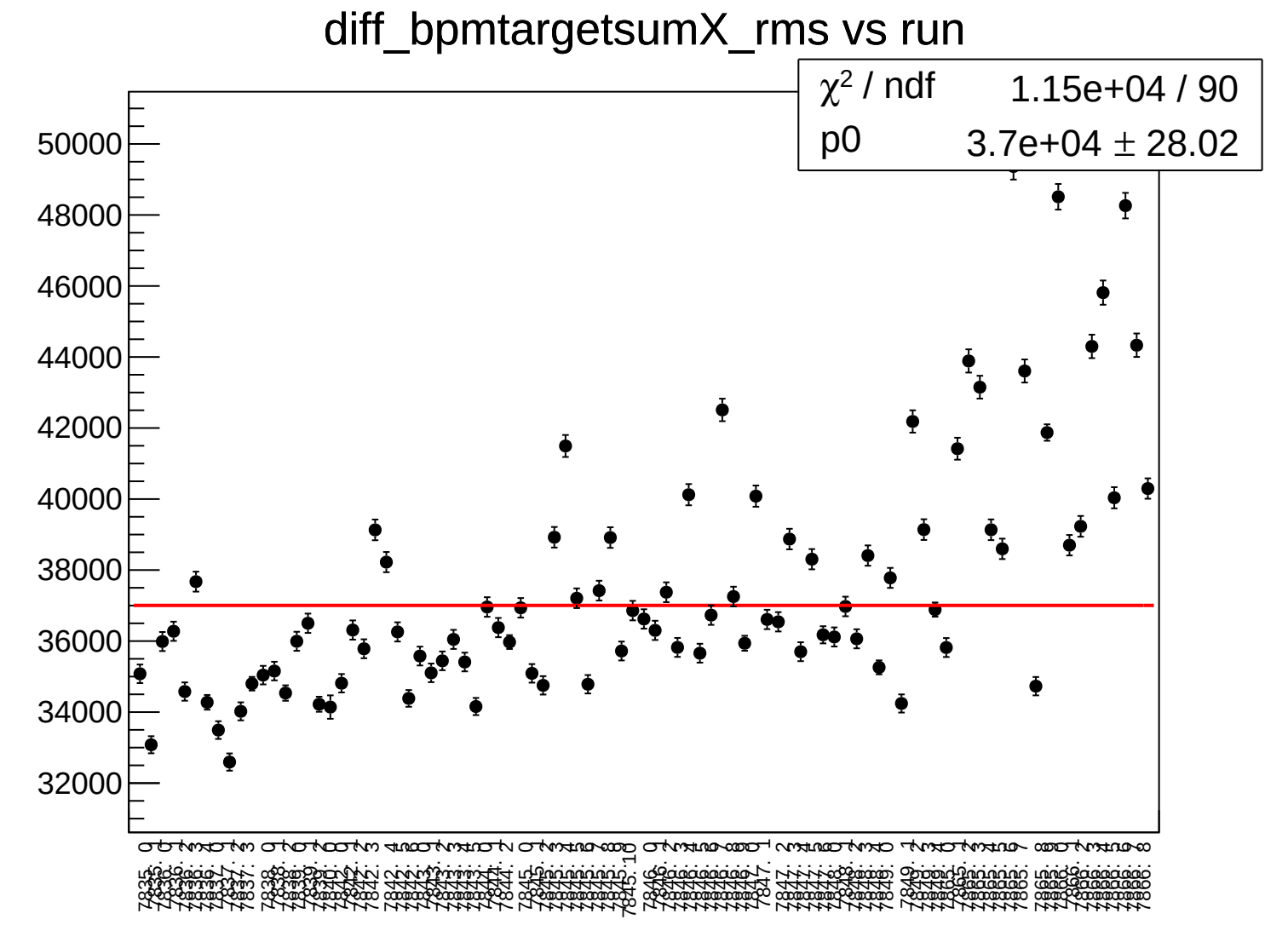

diff_bpm4aediffY_mean vs run
χ^2 / ndf 112.8 / 90
p0 2.456 ± 1.614
pull
Entries 91
Mean 6437
Std Dev 0

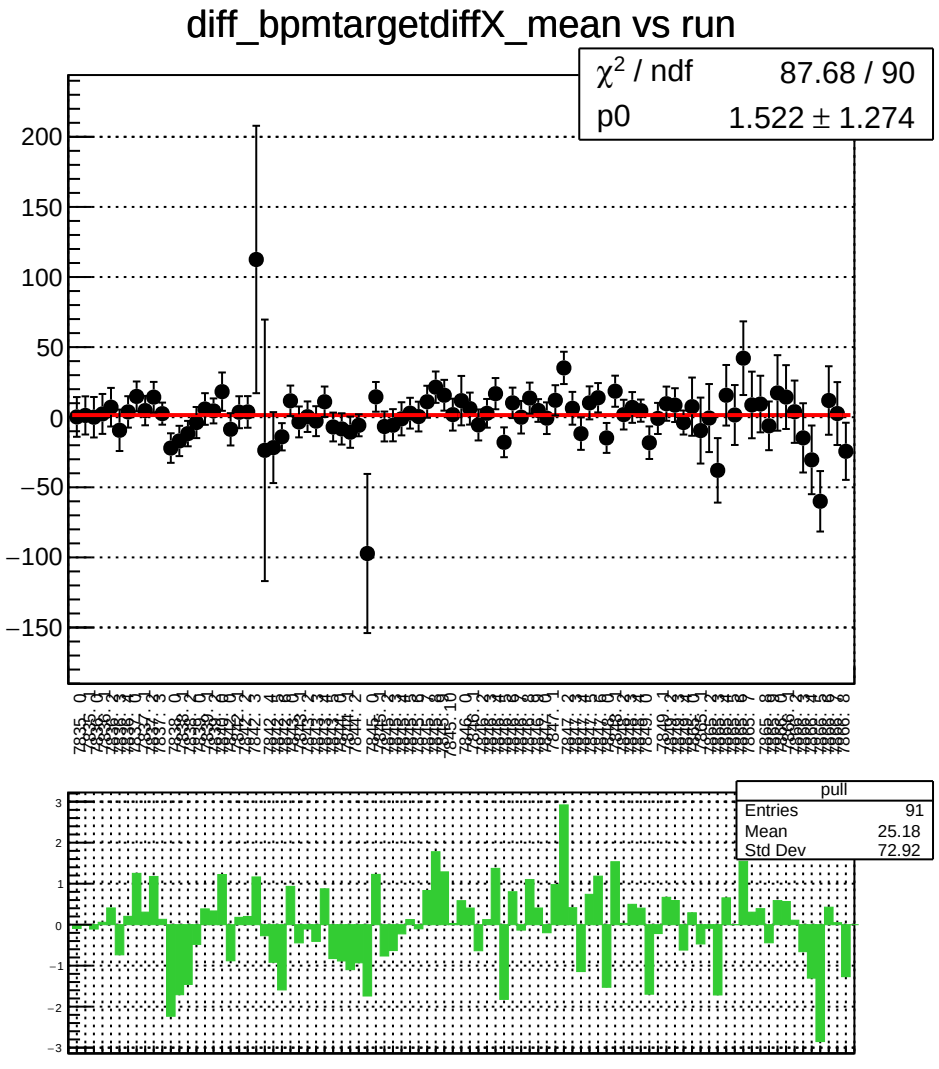

pull1D
Entries 91
Mean 0.000828
Std Dev 1.113

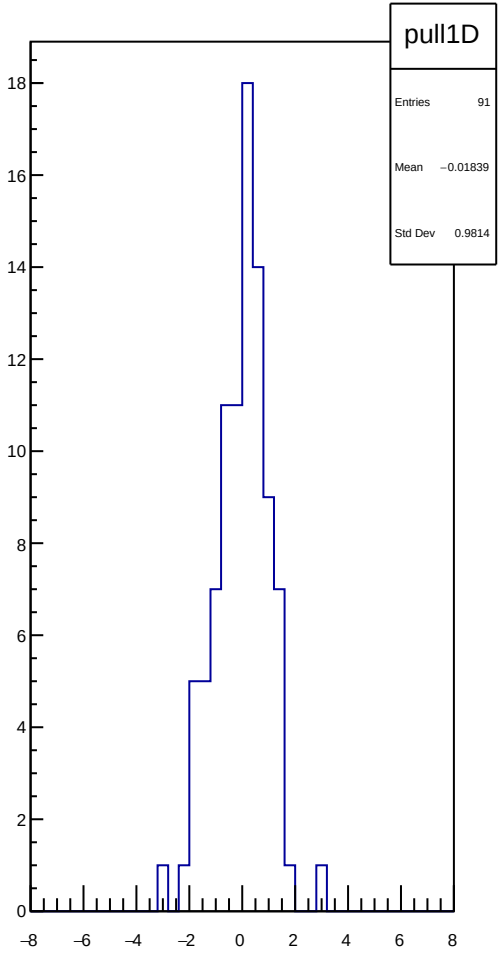

diff_bpm4aediffY_rms vs run
χ² / ndf 6098 / 90
p0 1509 ± 1.141
1900
1800
1700
1600
1500
1400

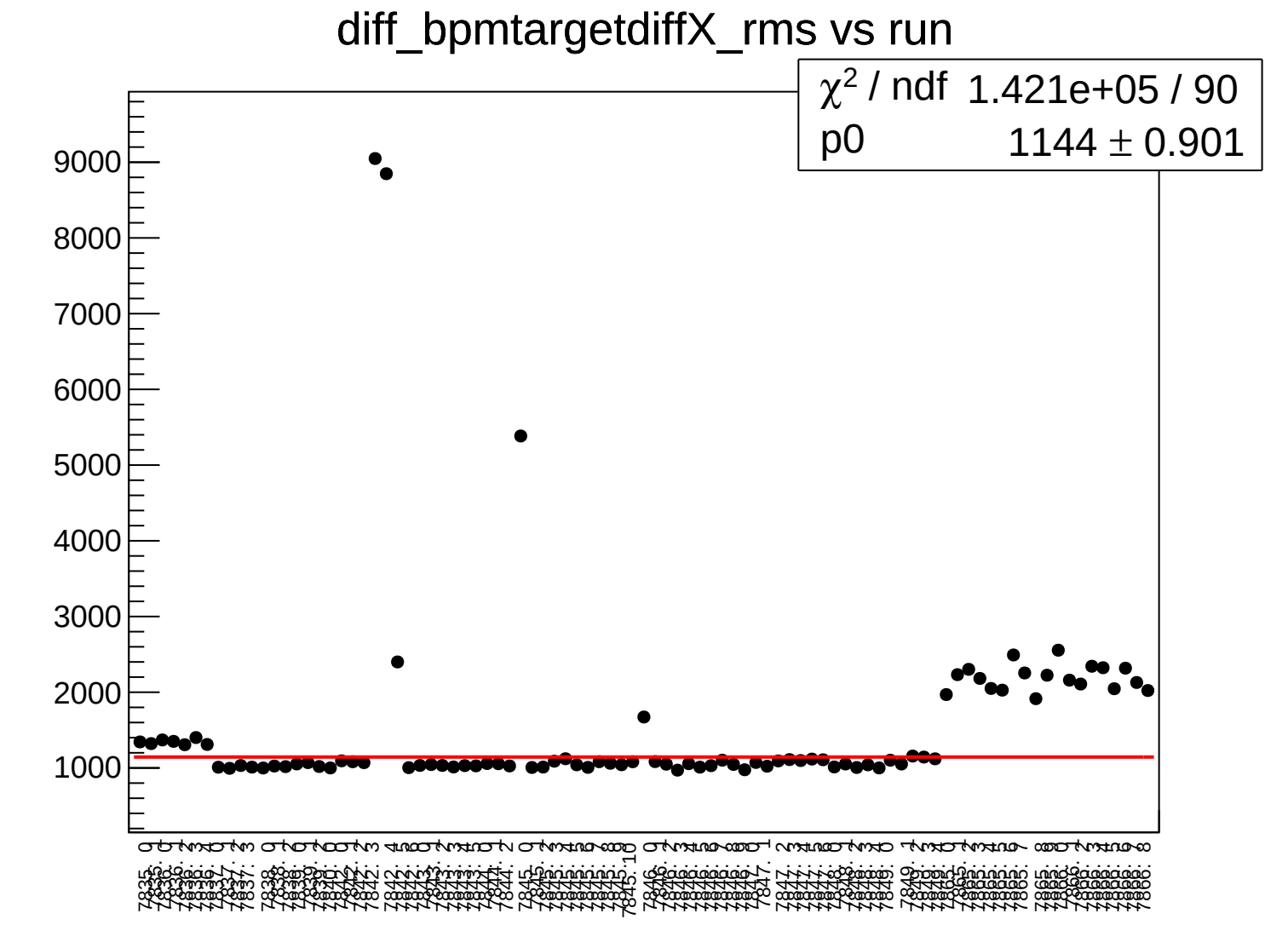

diff_bpmtargetsumX_mean vs run
χ² / ndf 79.41 / 90
p0 −1.465 ± 39.63
pull
Entries 91
Mean 97.99
Std Dev 0

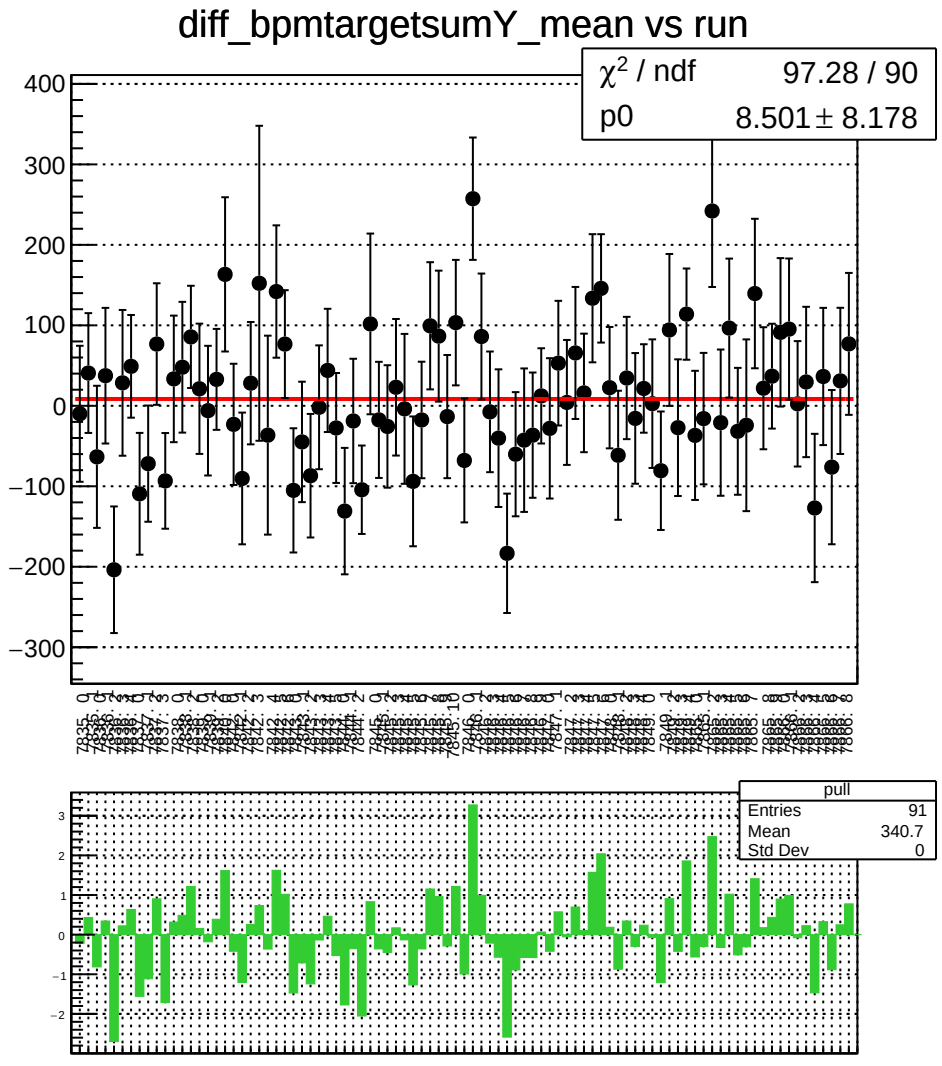

pull1D
Entries 91
Mean −0.01621
Std Dev 0.934

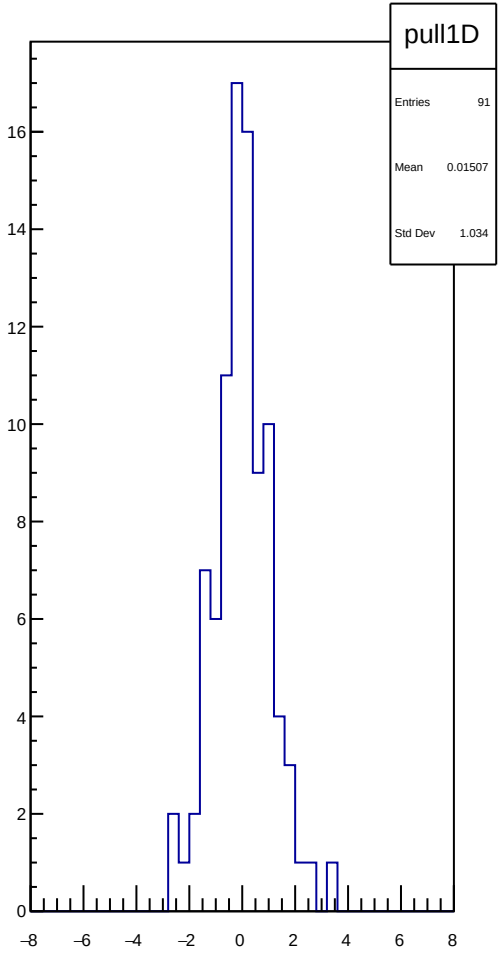

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.15e+04 / 90
p0 3.7e+04 ± 28.02
50000
48000
46000
44000
42000
40000
38000
36000
34000
32000

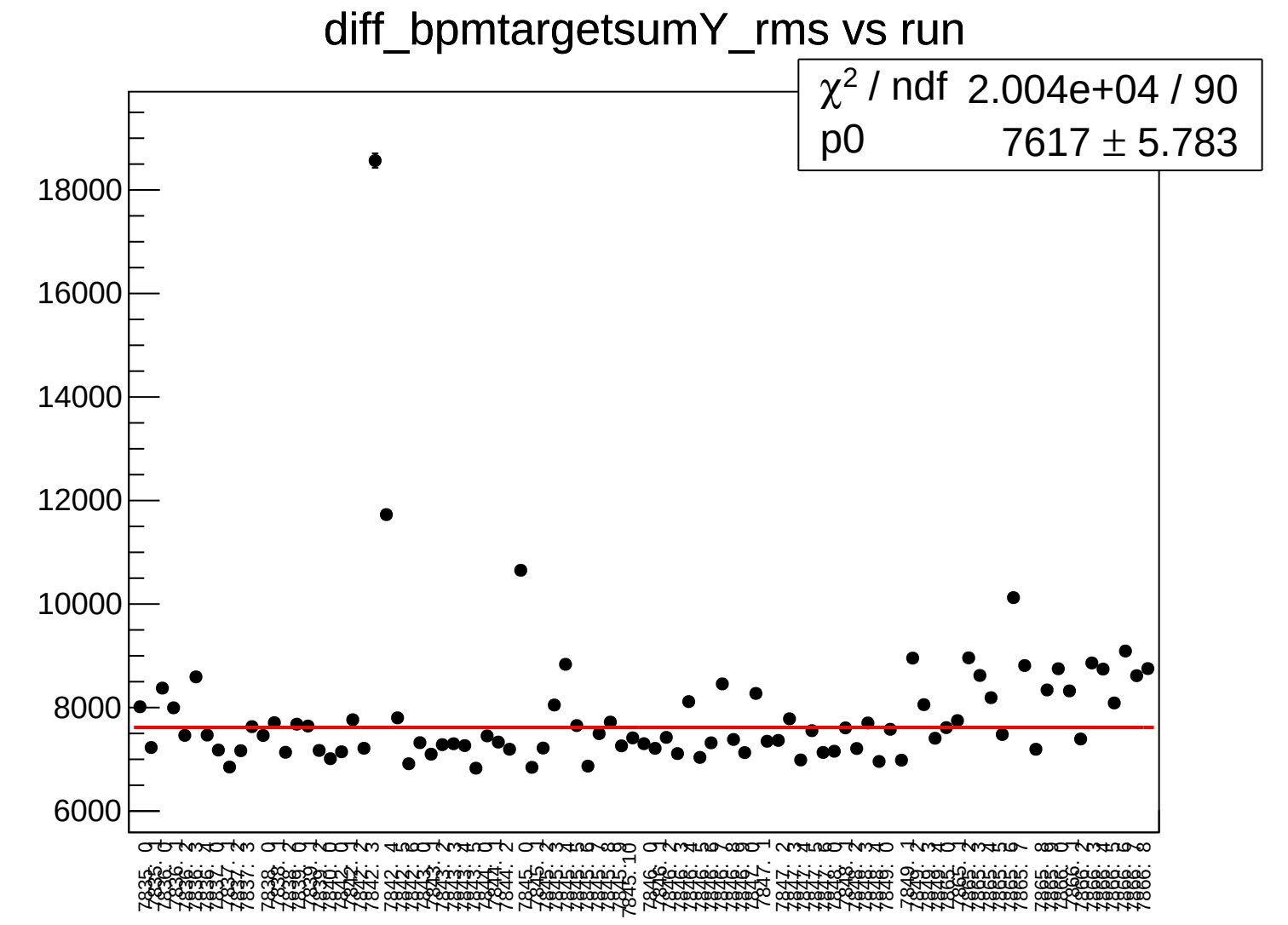

diff_bpmtargetdiffX_mean vs run
χ² / ndf 87.68 / 90
p0 1.522 ± 1.274
pull
Entries 91
Mean 25.18
Std Dev 72.92

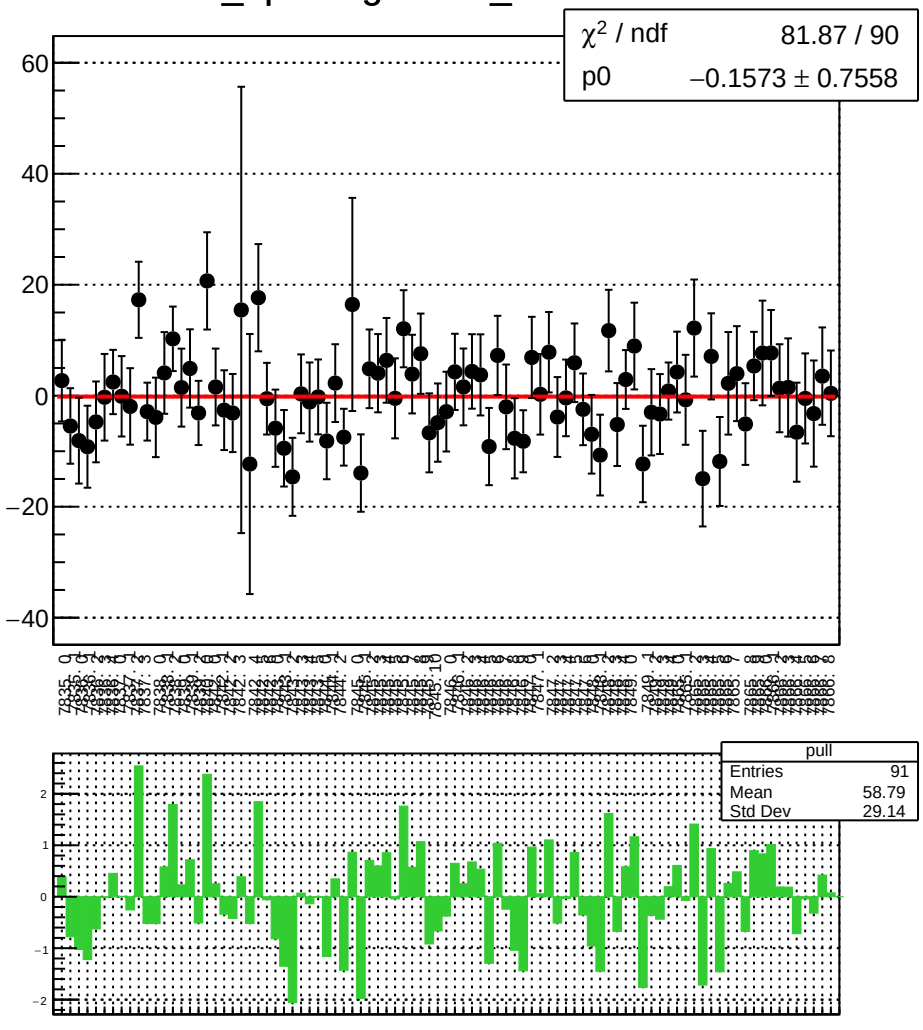

pull1D
Entries 91
Mean −0.01839
Std Dev 0.9814

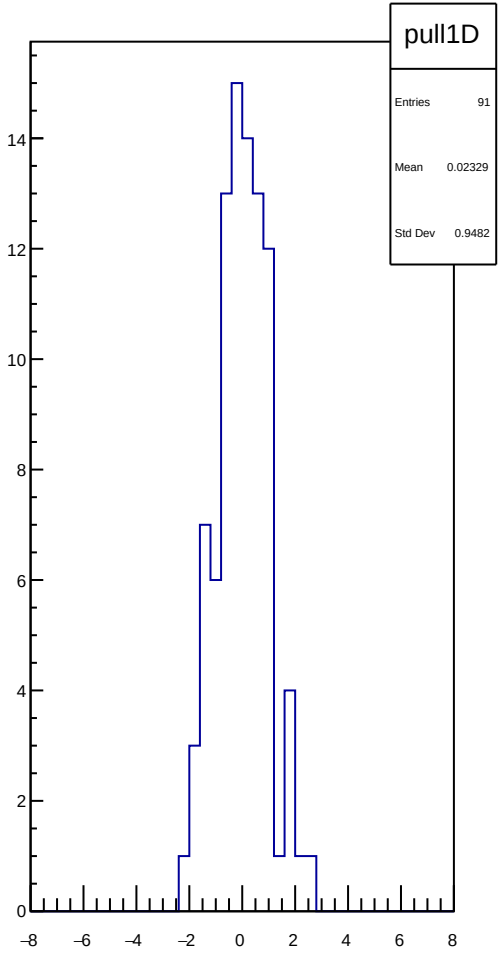

diff_bpmtargetdiffX_rms vs run
χ^2 / ndf 1.421e+05 / 90
p0 1144 ± 0.901
9000
8000
7000
6000
5000
4000
3000
2000
1000

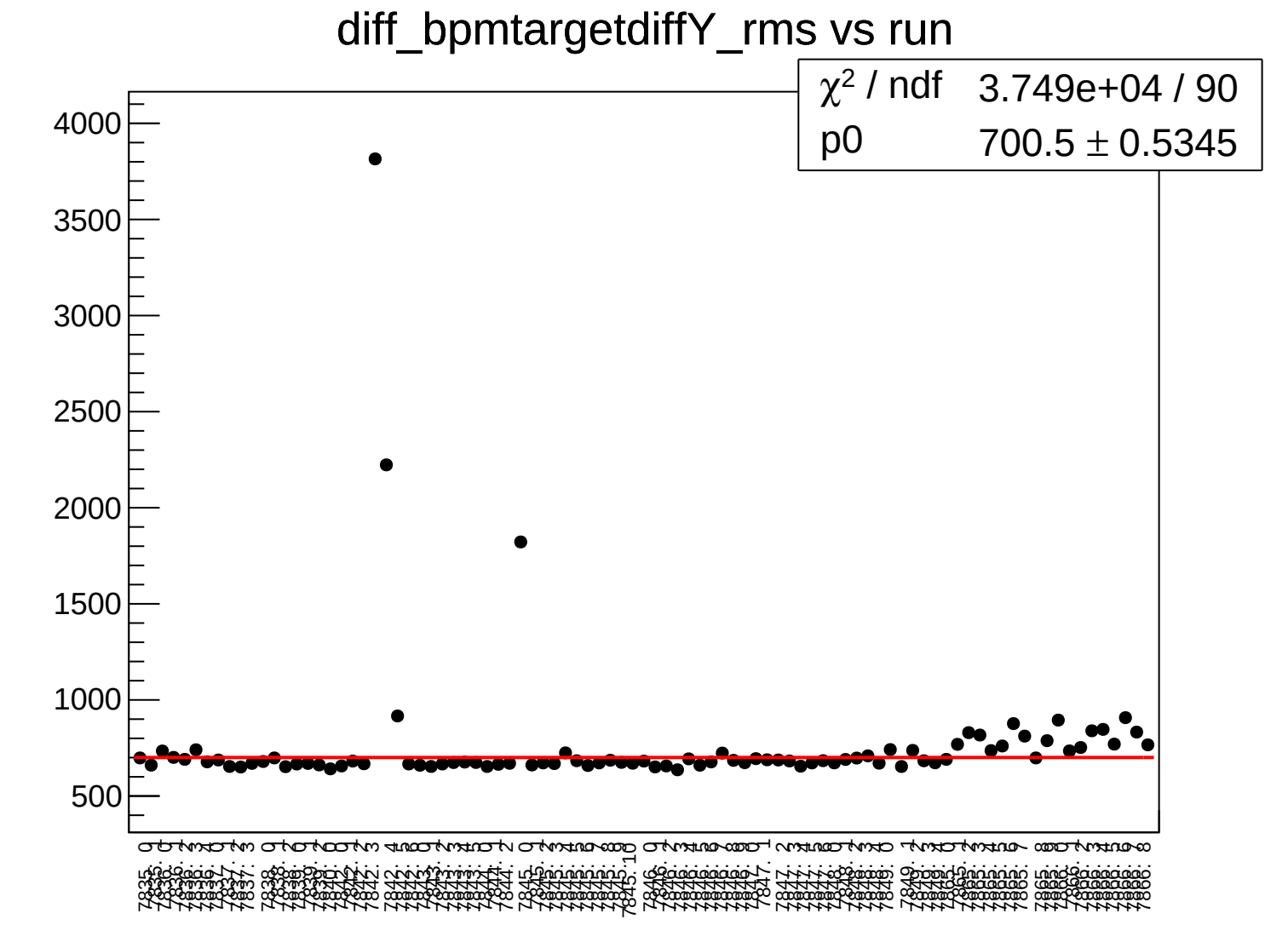

diff_bpmtargetsumY_mean vs run
χ² / ndf 97.28 / 90
p0 8.501 ± 8.178
pull
Entries 91
Mean 340.7
Std Dev 0

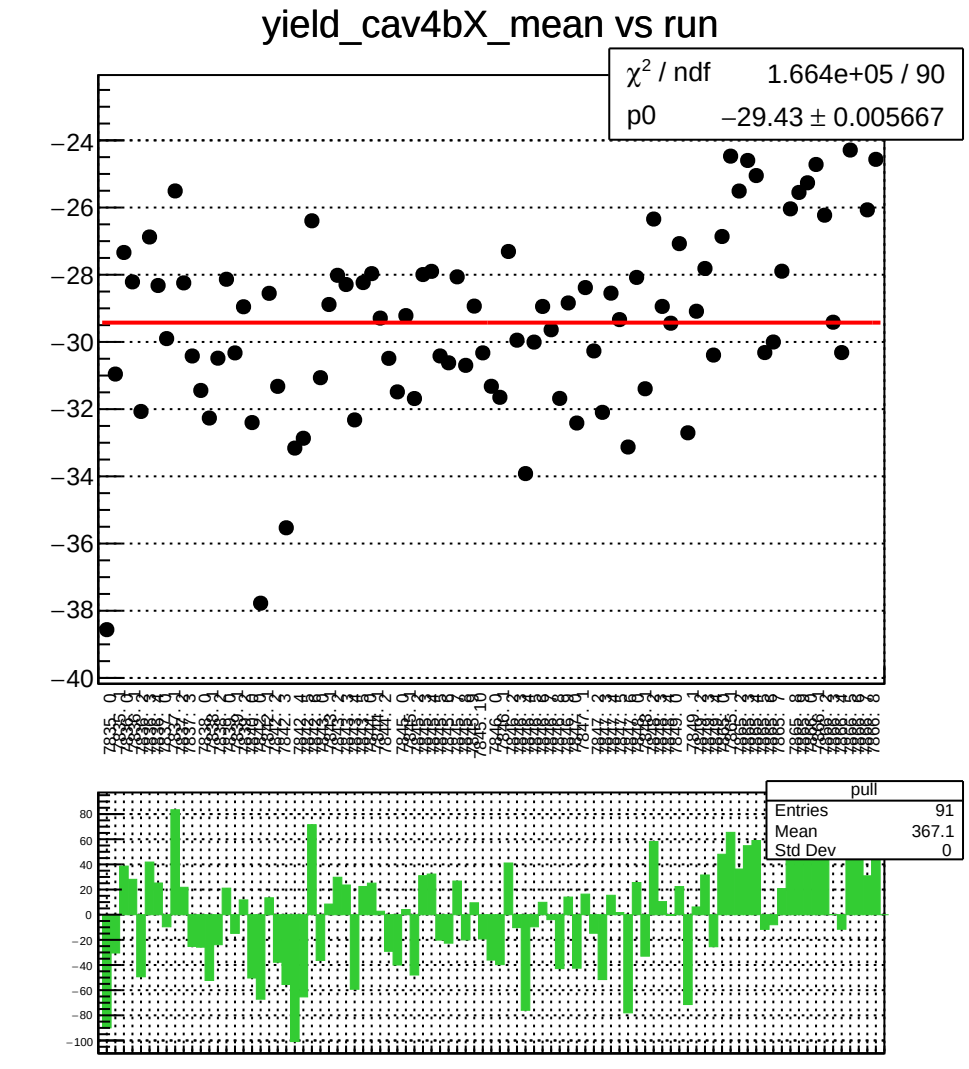

pull1D
Entries 91
Mean 0.01507
Std Dev 1.034

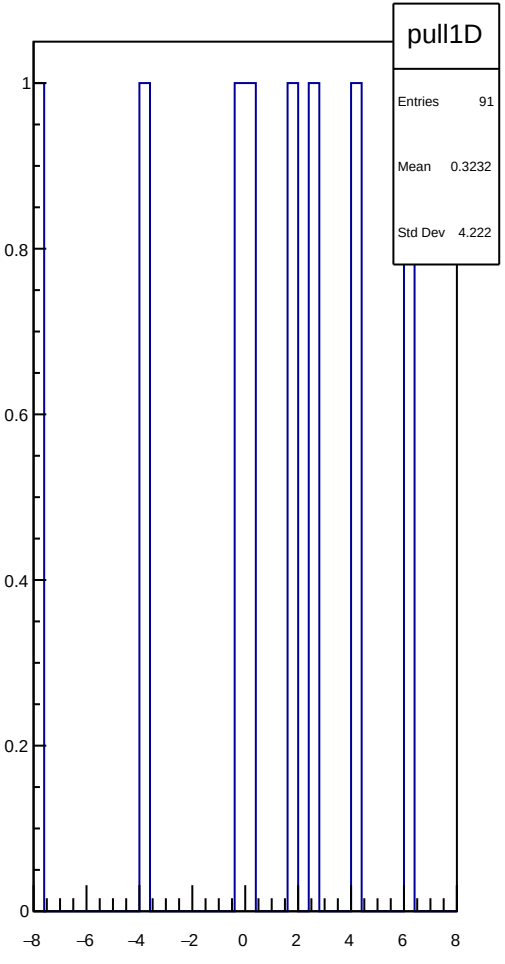

diff_bpmtargetsumY_rms vs run
χ² / ndf 2.004e+04 / 90
p0 7617 ± 5.783
18000
16000
14000
12000
10000
8000
6000

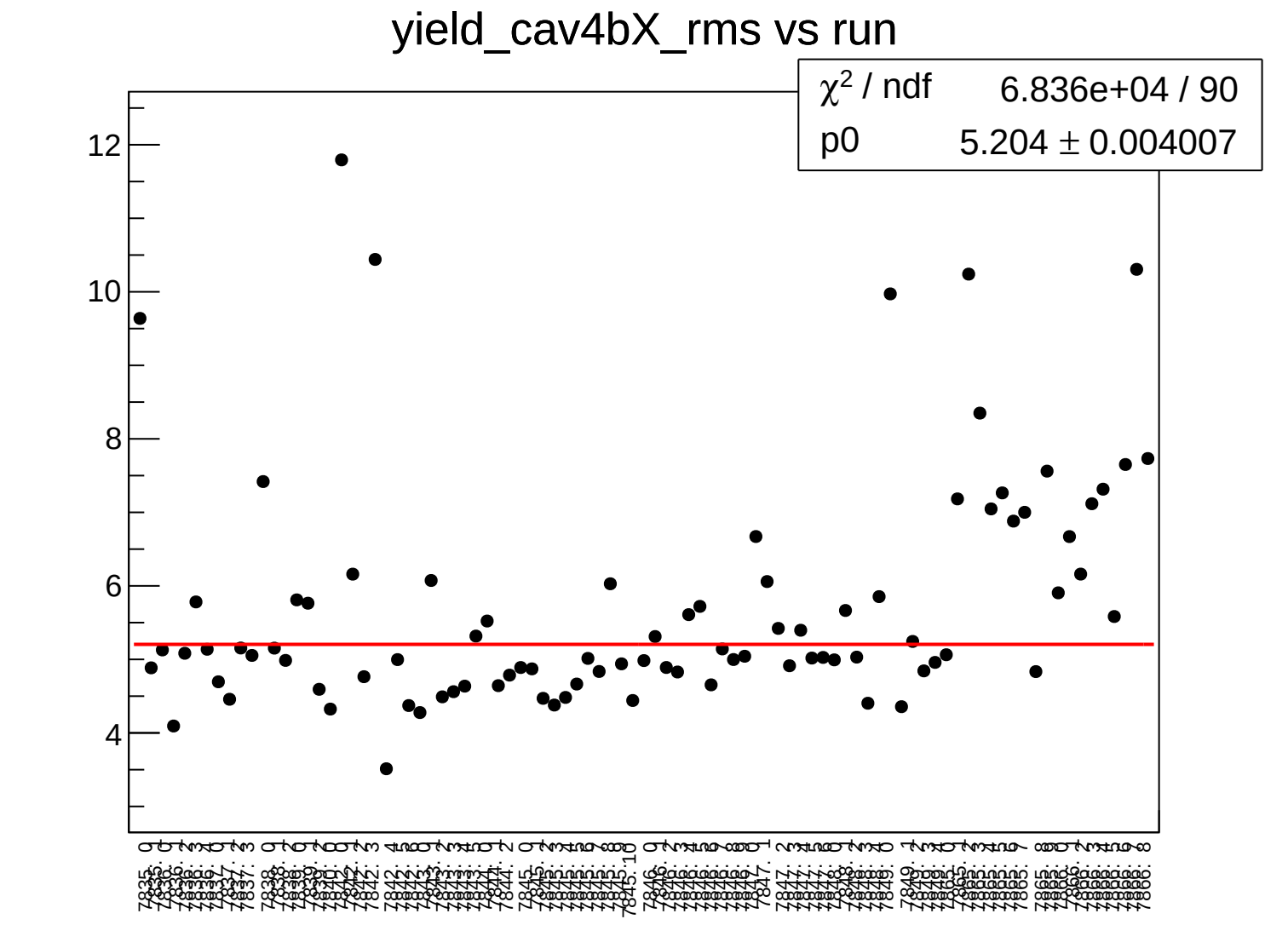

diff_bpmtargetdiffY_mean vs run
χ² / ndf 81.87 / 90
p0 −0.1573 ± 0.7558
pull
Entries 91
Mean 58.79
Std Dev 29.14

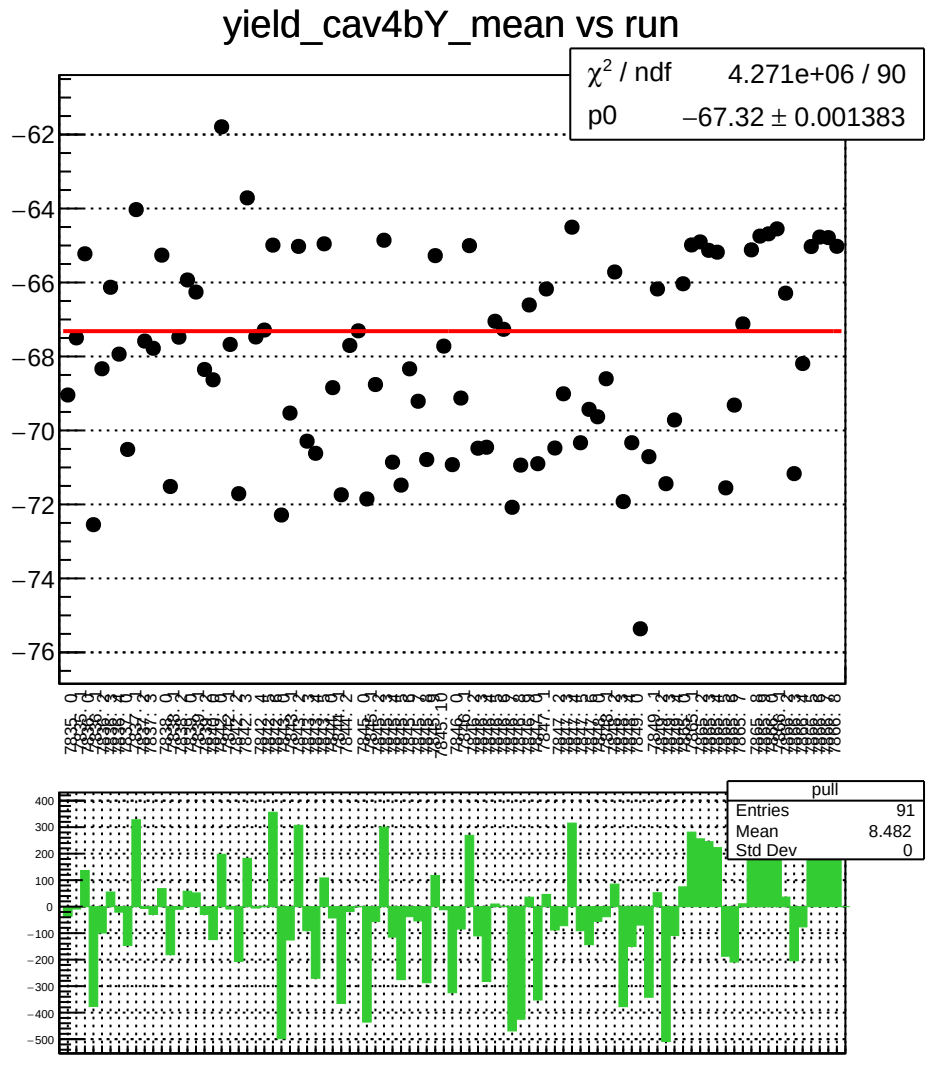

pull1D
Entries 91
Mean 0.02329
Std Dev 0.9482

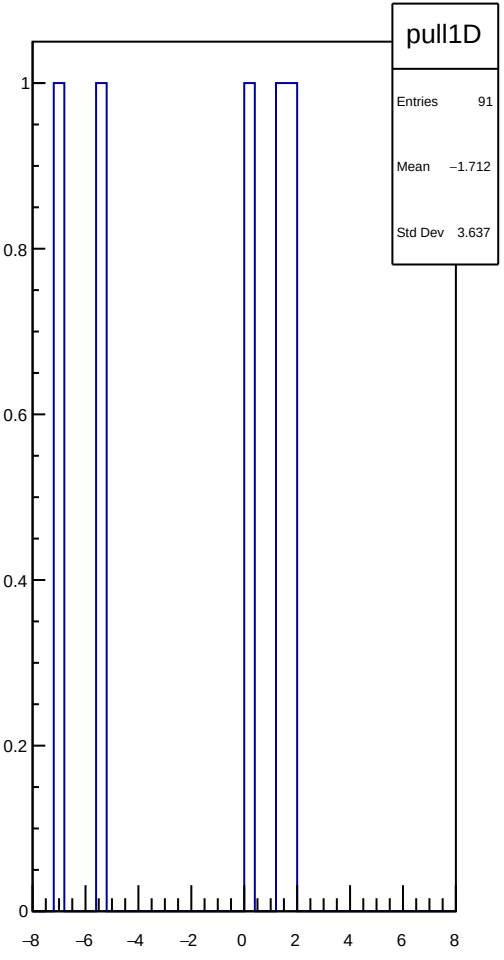

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3.749e+04 / 90
p0 700.5 ± 0.5345
4000
3500
3000
2500
2000
1500
1000
500


yield_cav4bX_mean vs run
χ² / ndf 1.664e+05 / 90
p0 −29.43 ± 0.005667
pull
Entries 91
Mean 367.1
Std Dev 0

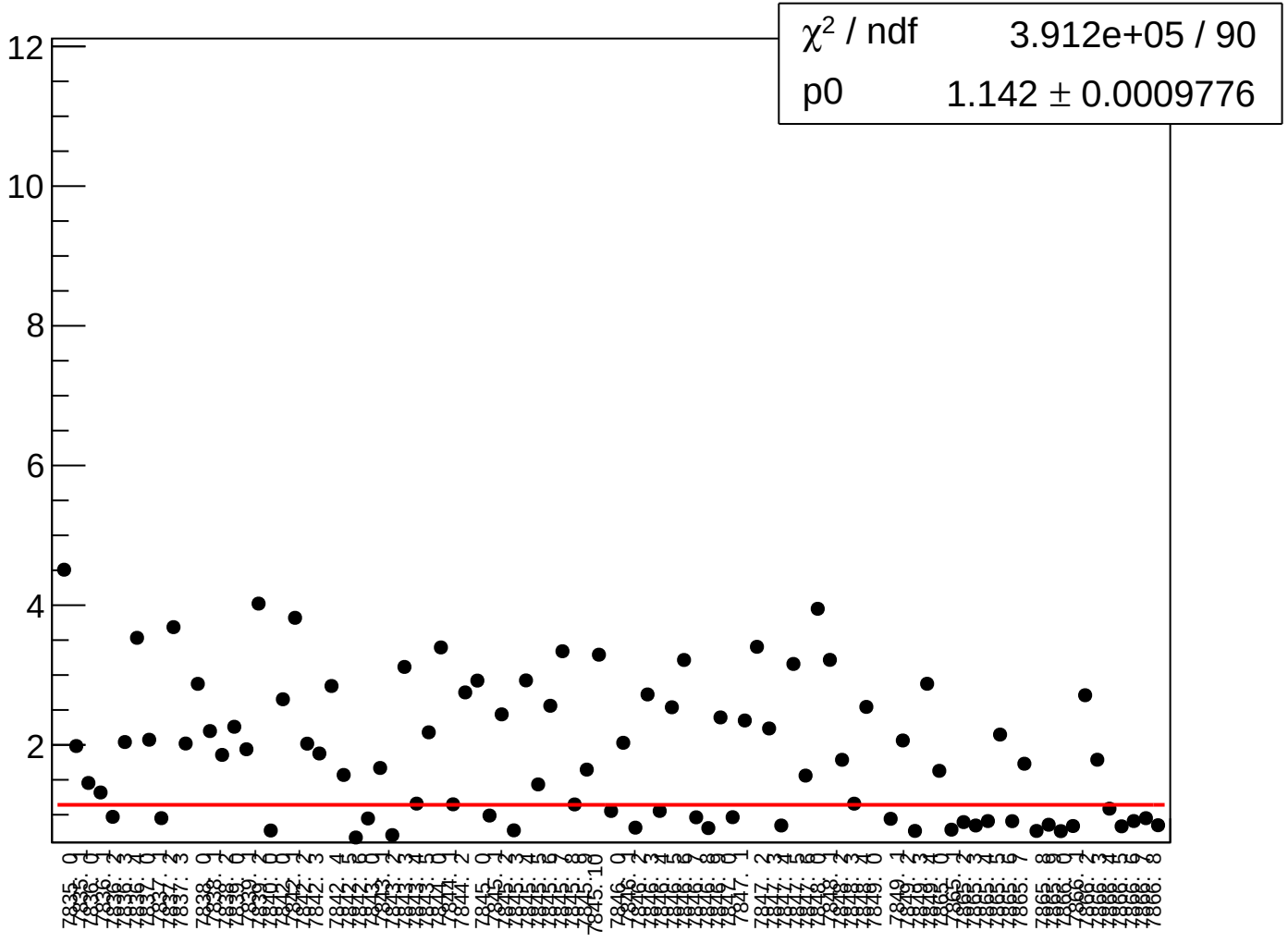

pull1D
Entries 91
Mean 0.3232
Std Dev 4.222

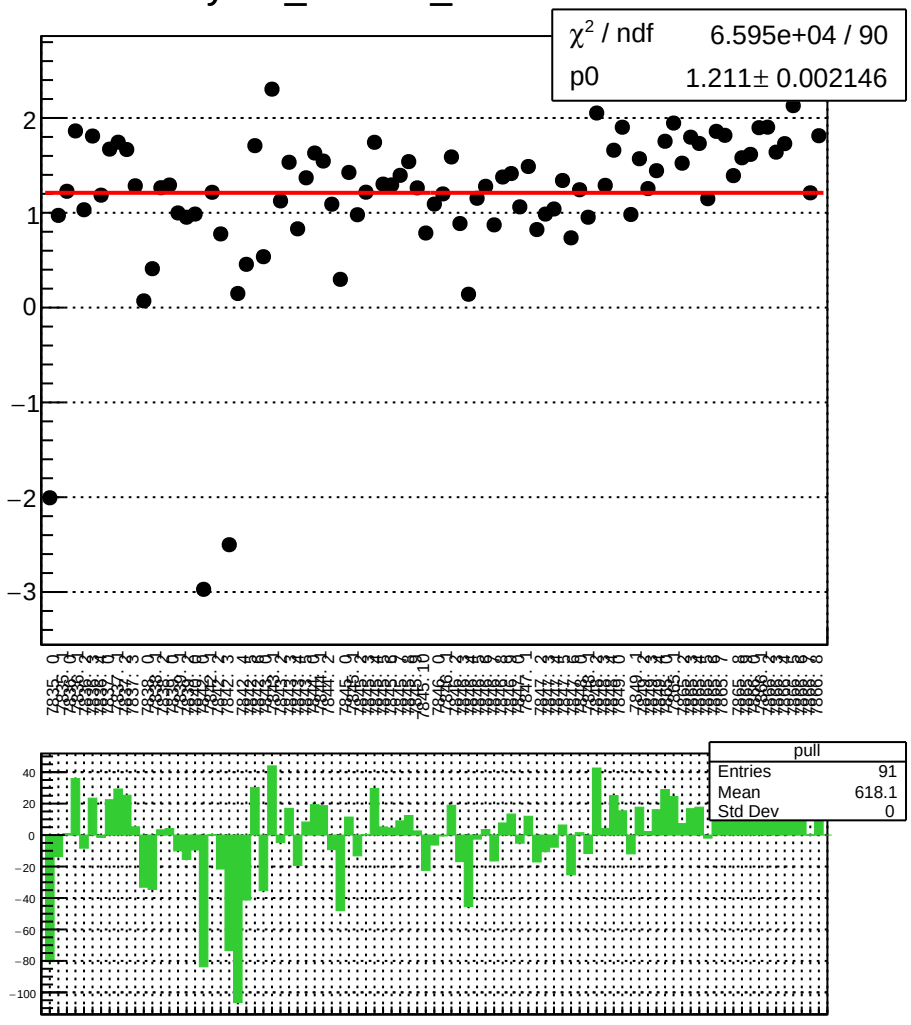

yield_cav4bX_rms vs run
χ² / ndf 6.836e+04 / 90
p0 5.204 ± 0.004007
12
10
8
6
4

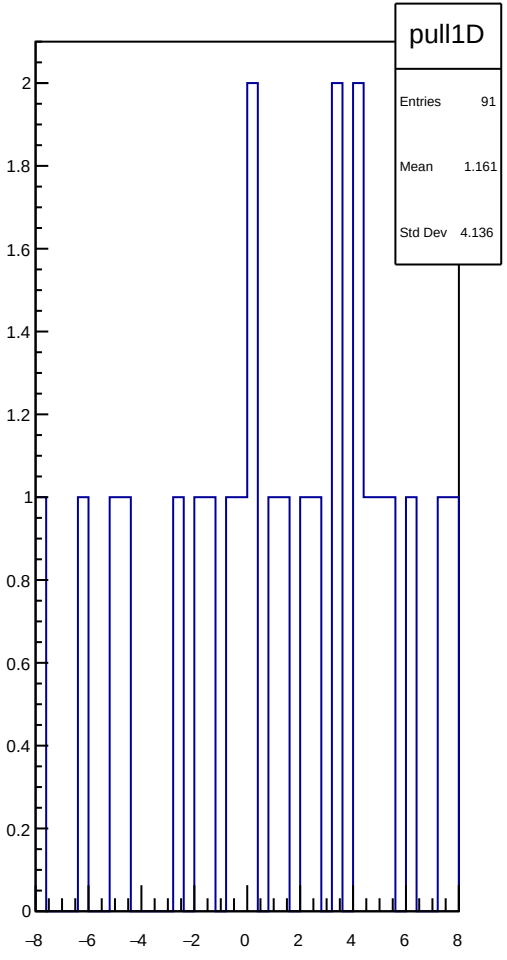

yield_cav4bY_mean vs run
χ² / ndf 4.271e+06 / 90
p0 −67.32 ± 0.001383
−62
−64
−66
−68
−70
−72
−74
−76
pull
Entries 91
Mean 8.482
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

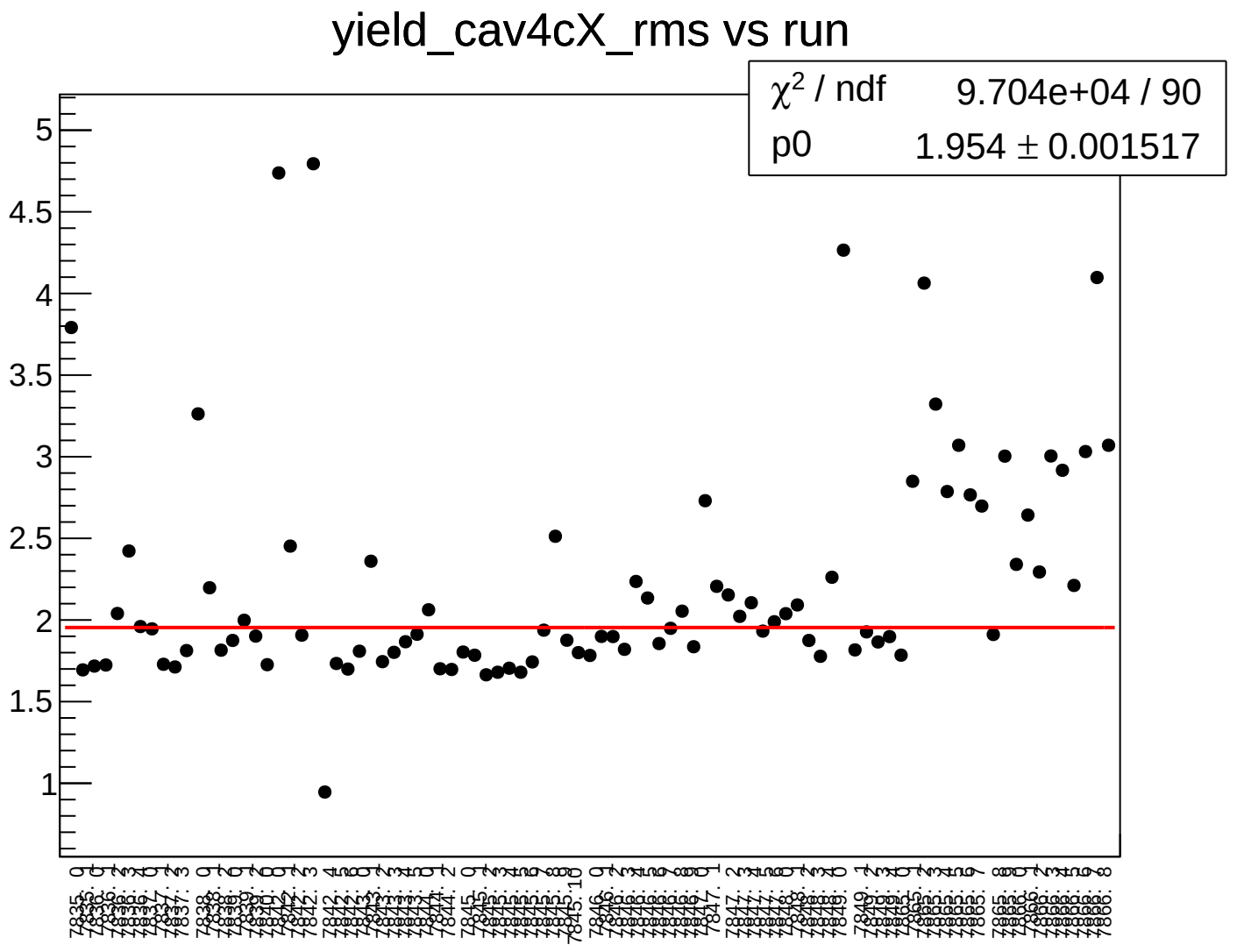

pull1D
Entries 91
Mean −1.712
Std Dev 3.637
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

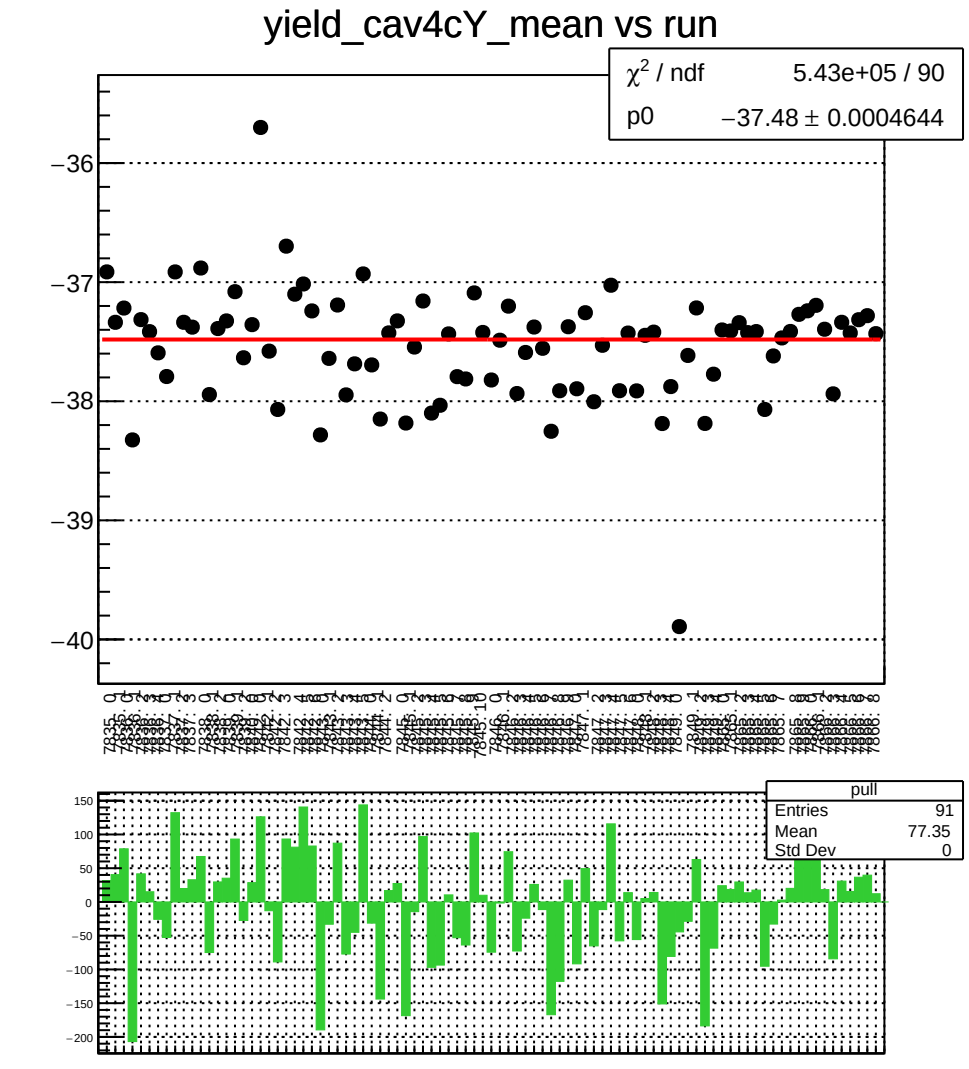
yield_cav4bY_rms vs run

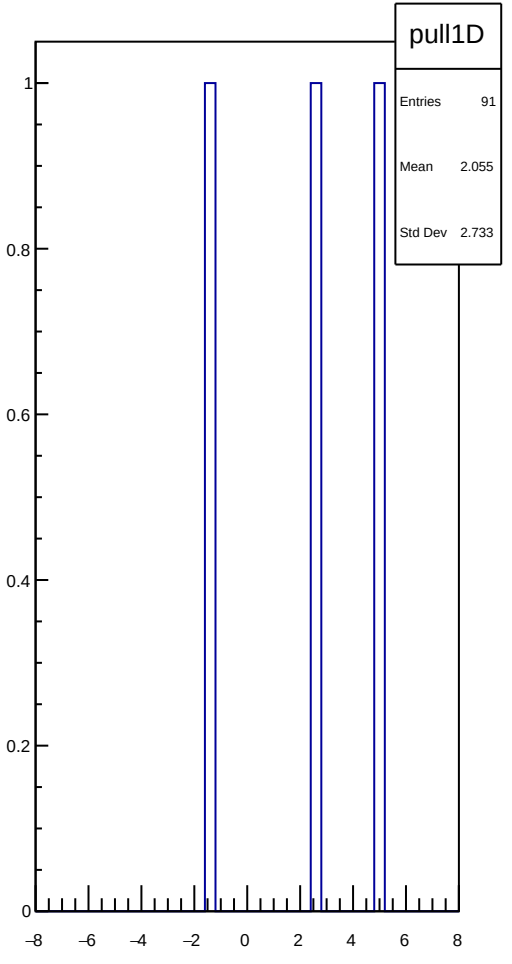


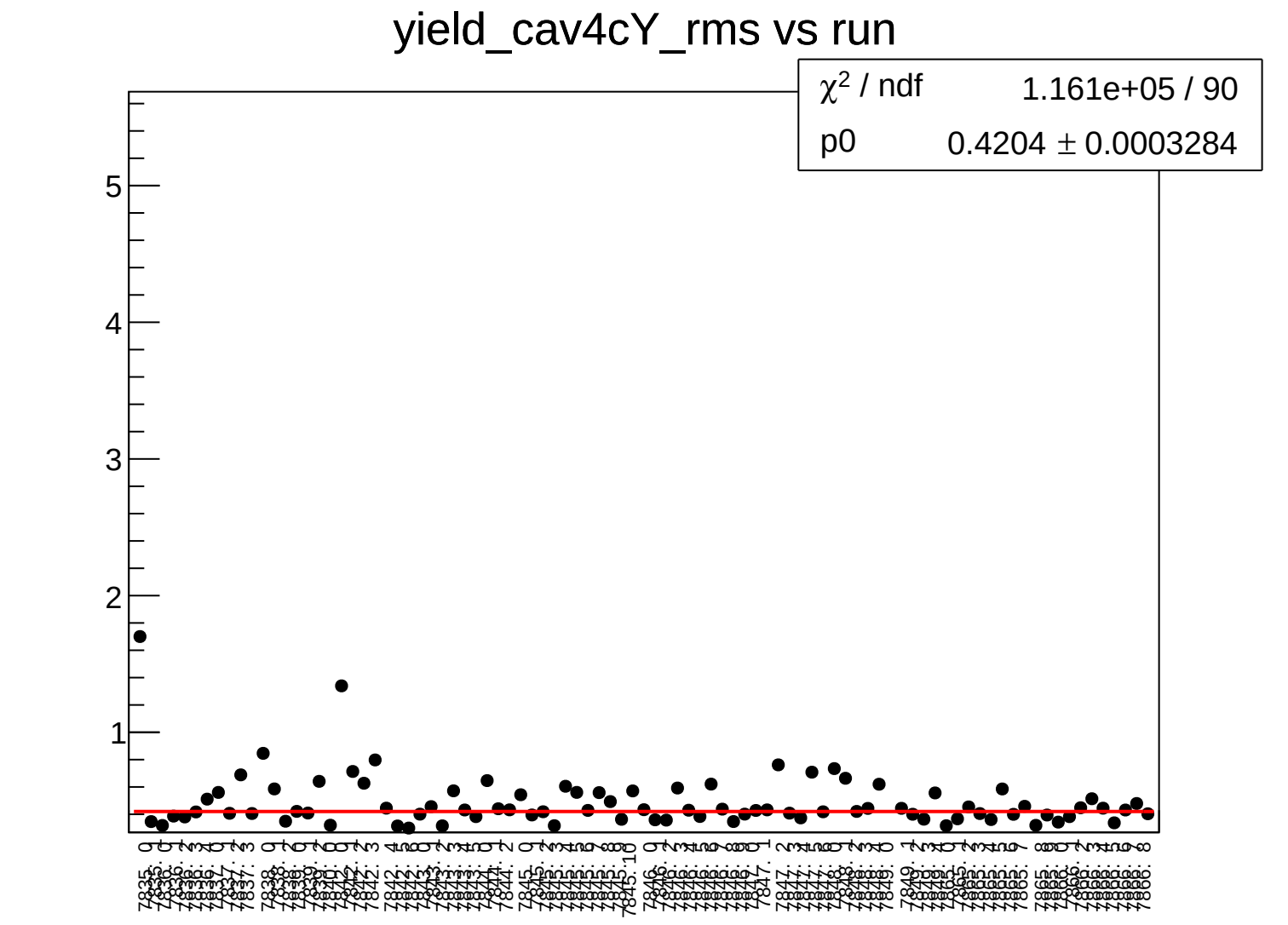

yield_cav4cX_mean vs run
χ² / ndf 6.595e+04 / 90
p0 1.211± 0.002146
pull
Entries 91
Mean 618.1
Std Dev 0

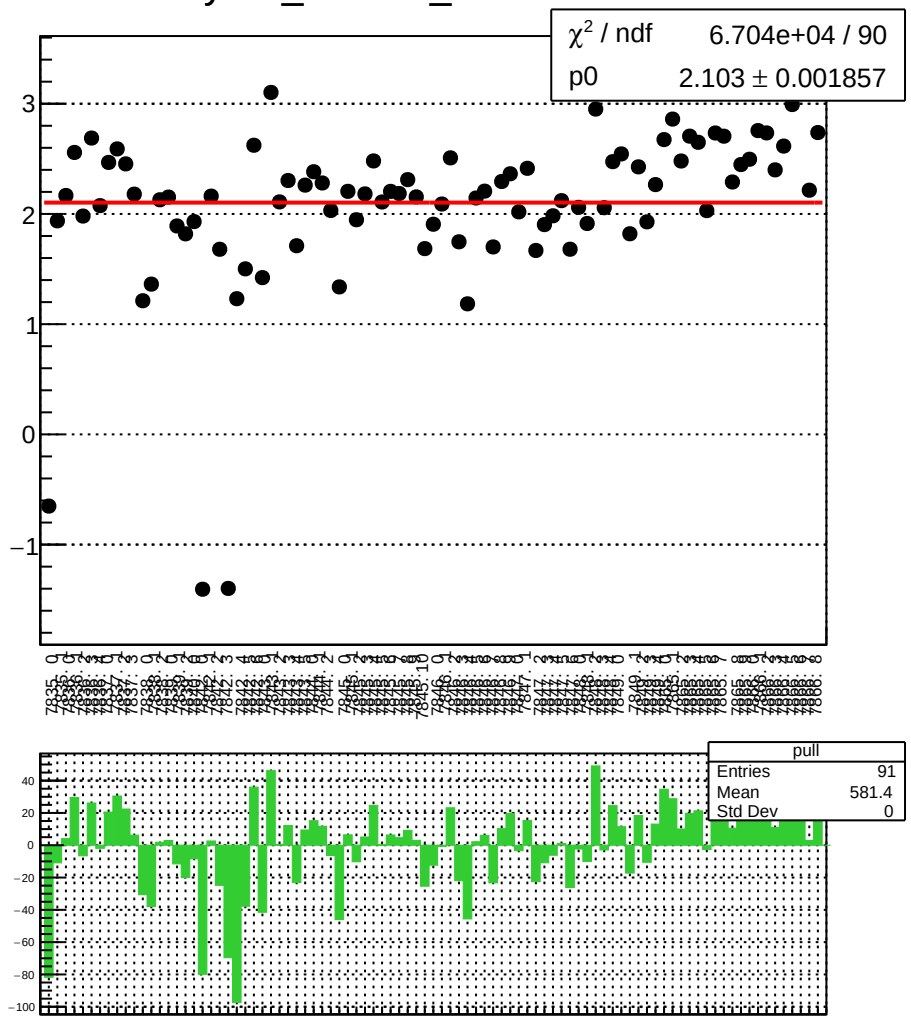

pull1D
Entries 91
Mean 1.161
Std Dev 4.136

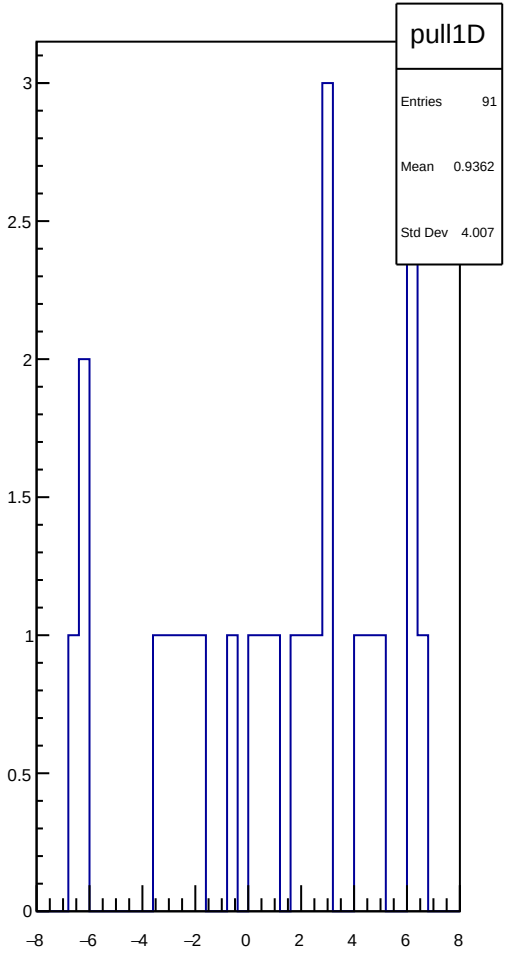

yield_cav4cX_rms vs run
χ^2 / ndf 9.704e+04 / 90
p0 1.954 ± 0.001517
5
4.5
4
3.5
3
2.5
2
1.5
1

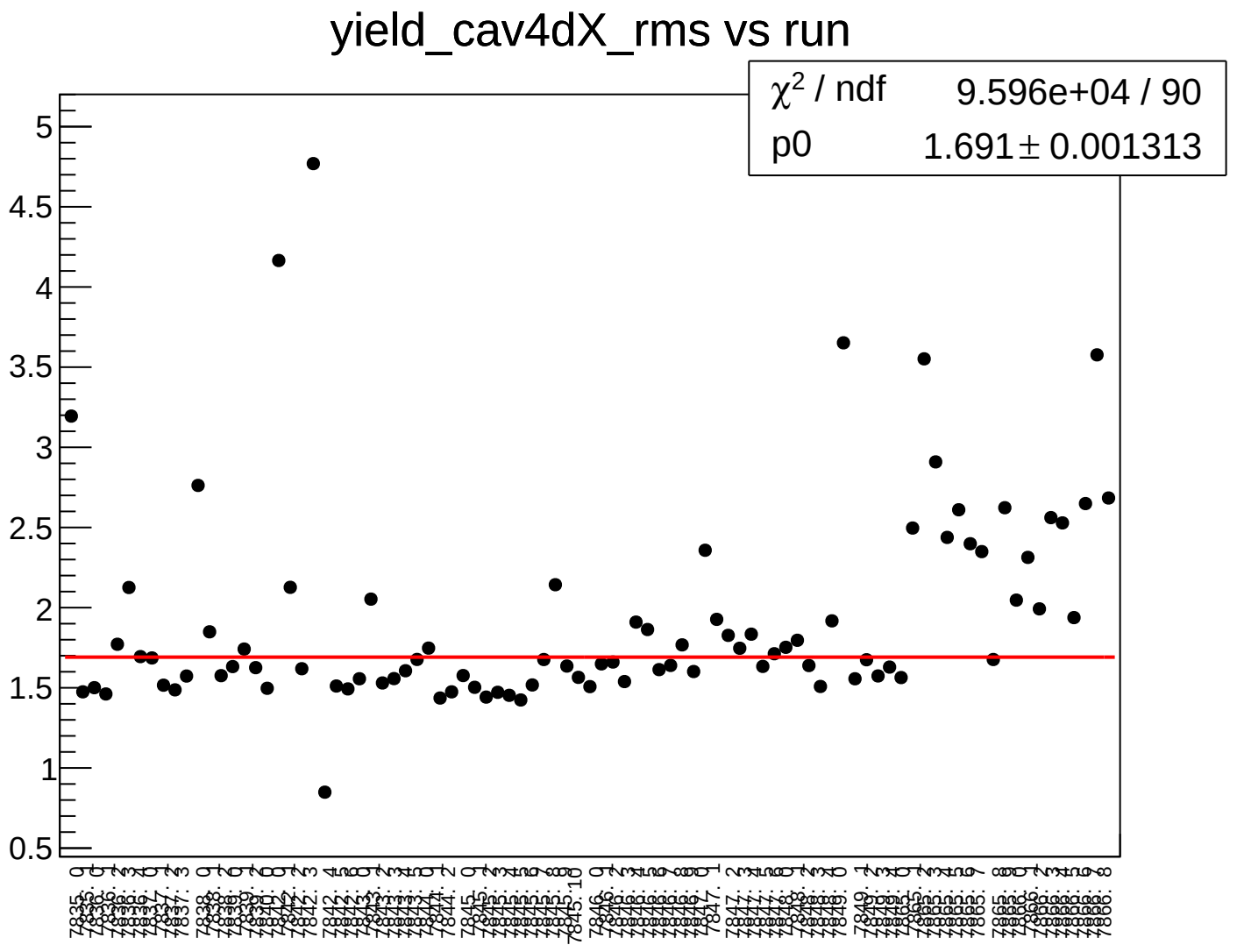

yield_cav4cY_mean vs run
χ² / ndf 5.43e+05 / 90
p0 −37.48 ± 0.0004644
−36
−37
−38
−39
−40
pull
Entries 91
Mean 77.35
Std Dev 0
150
100
50
0
−50
−100
−150
−200

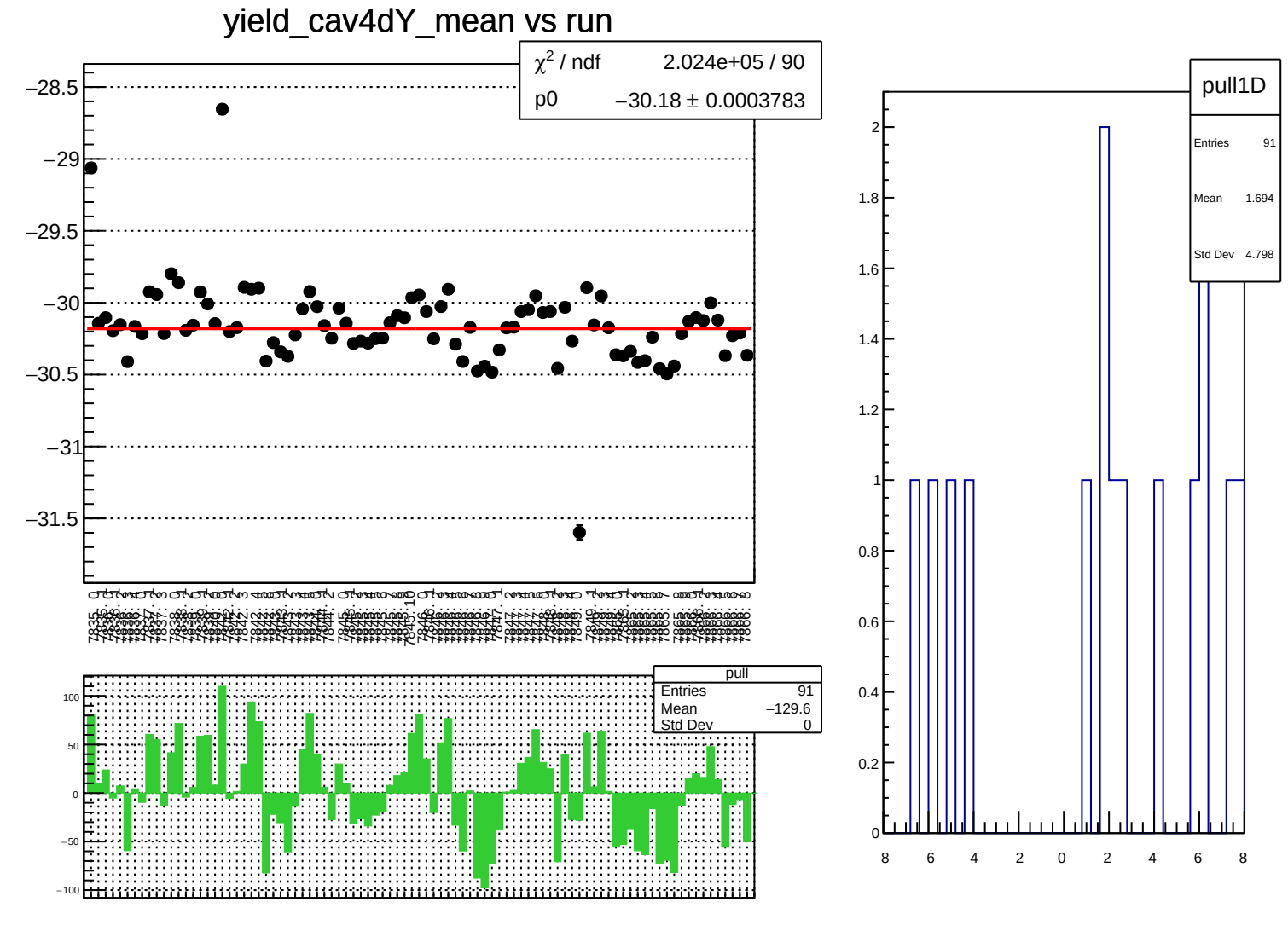

pull1D
Entries 91
Mean 2.055
Std Dev 2.733
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

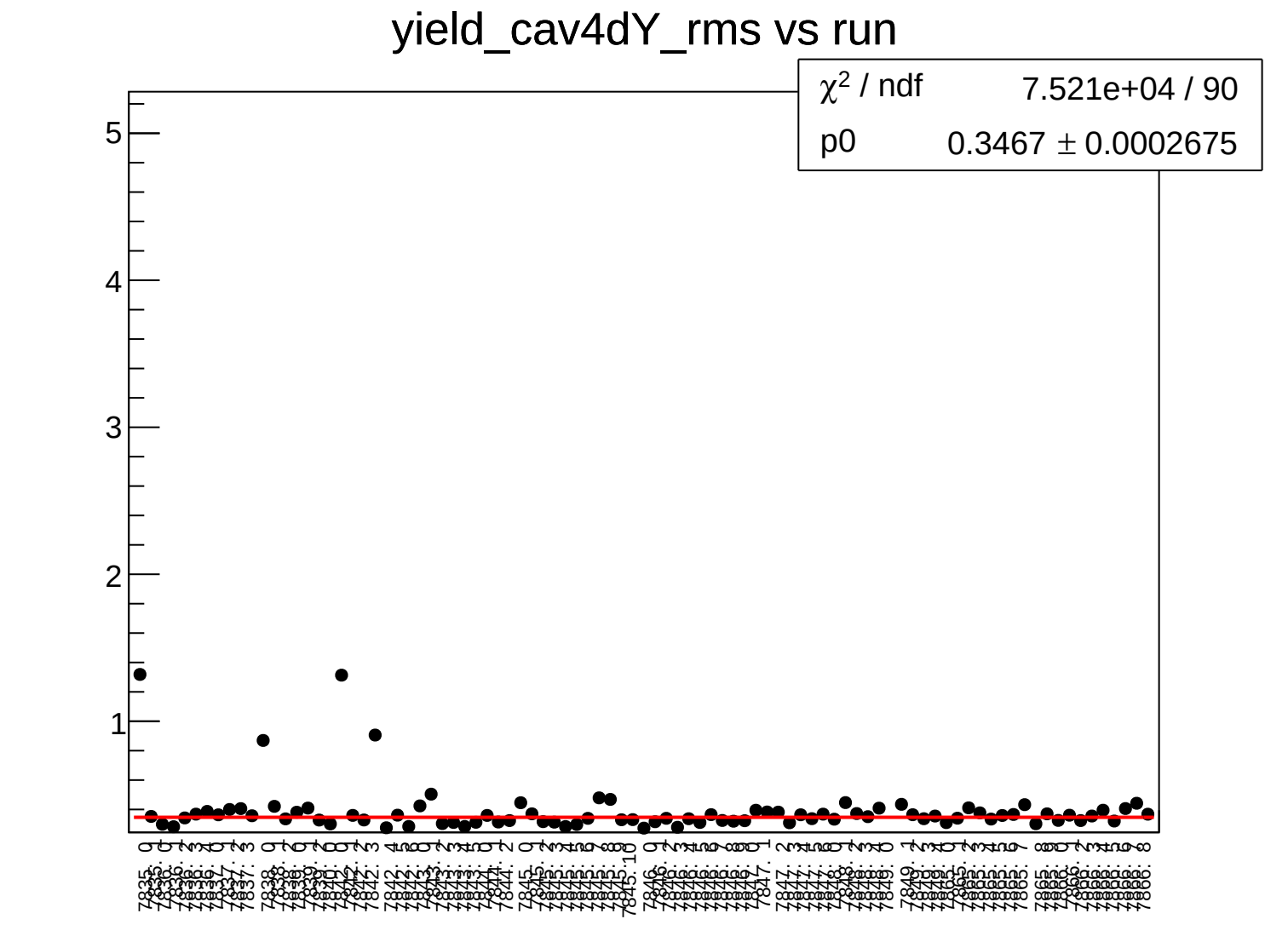

yield_cav4cY_rms vs run
χ^2 / ndf 1.161e+05 / 90
p0 0.4204 ± 0.0003284
5
4
3
2
1

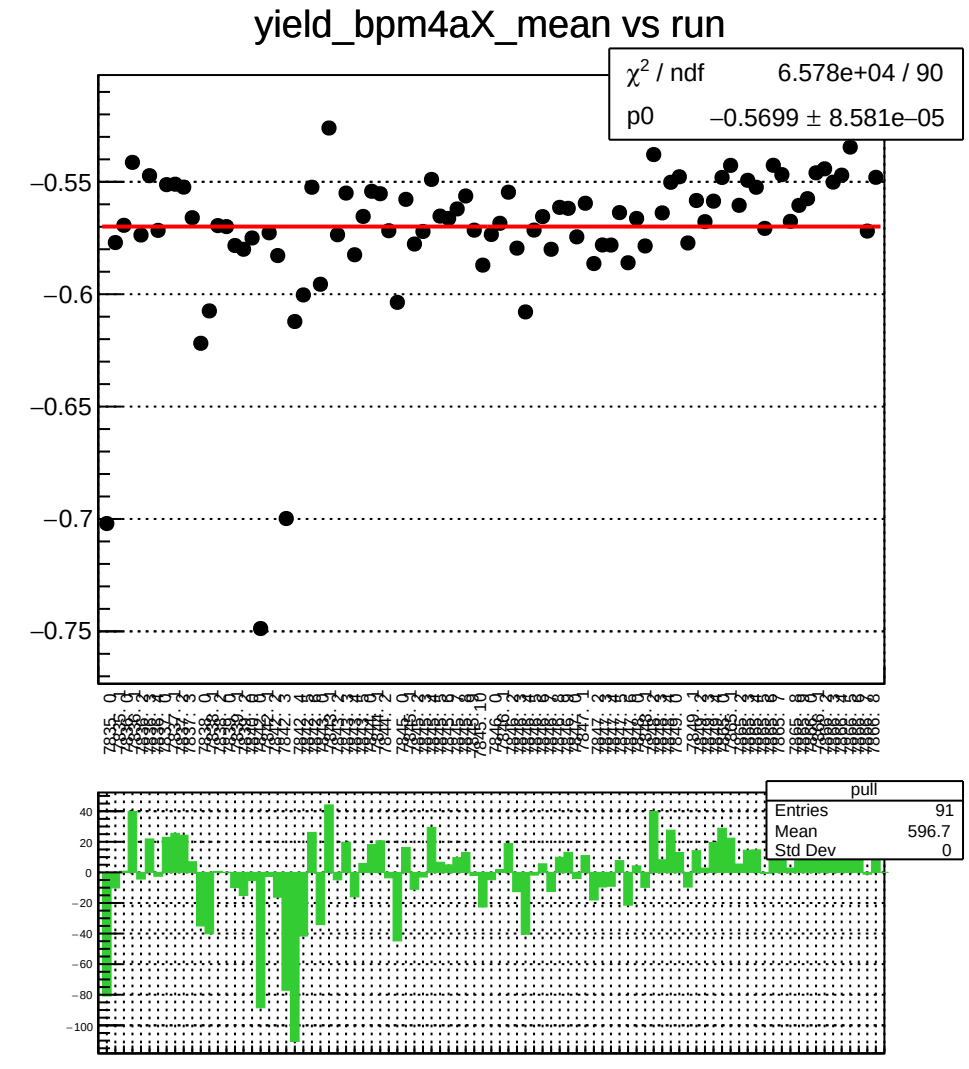

yield_cav4dX_mean vs run
χ² / ndf 6.704e+04 / 90
p0 2.103 ± 0.001857
pull
Entries 91
Mean 581.4
Std Dev 0

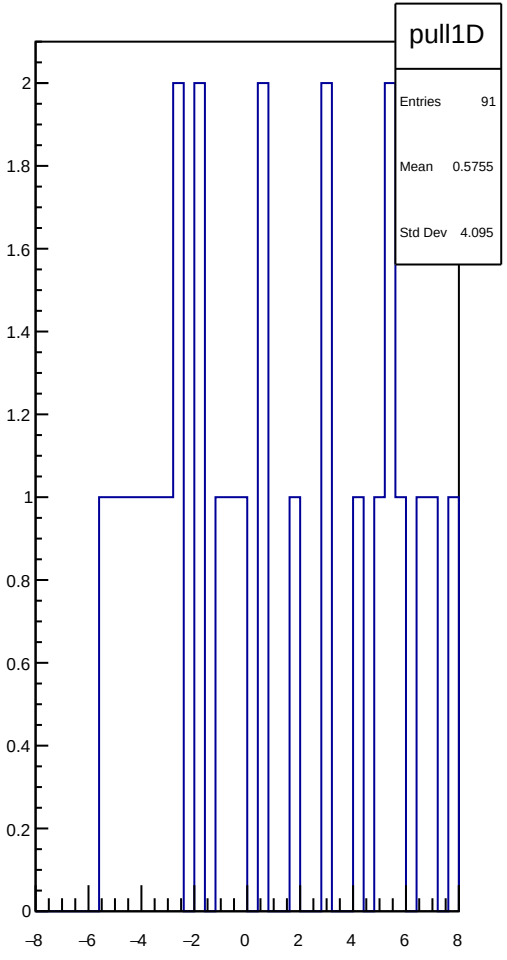

pull1D
Entries 91
Mean 0.9362
Std Dev 4.007

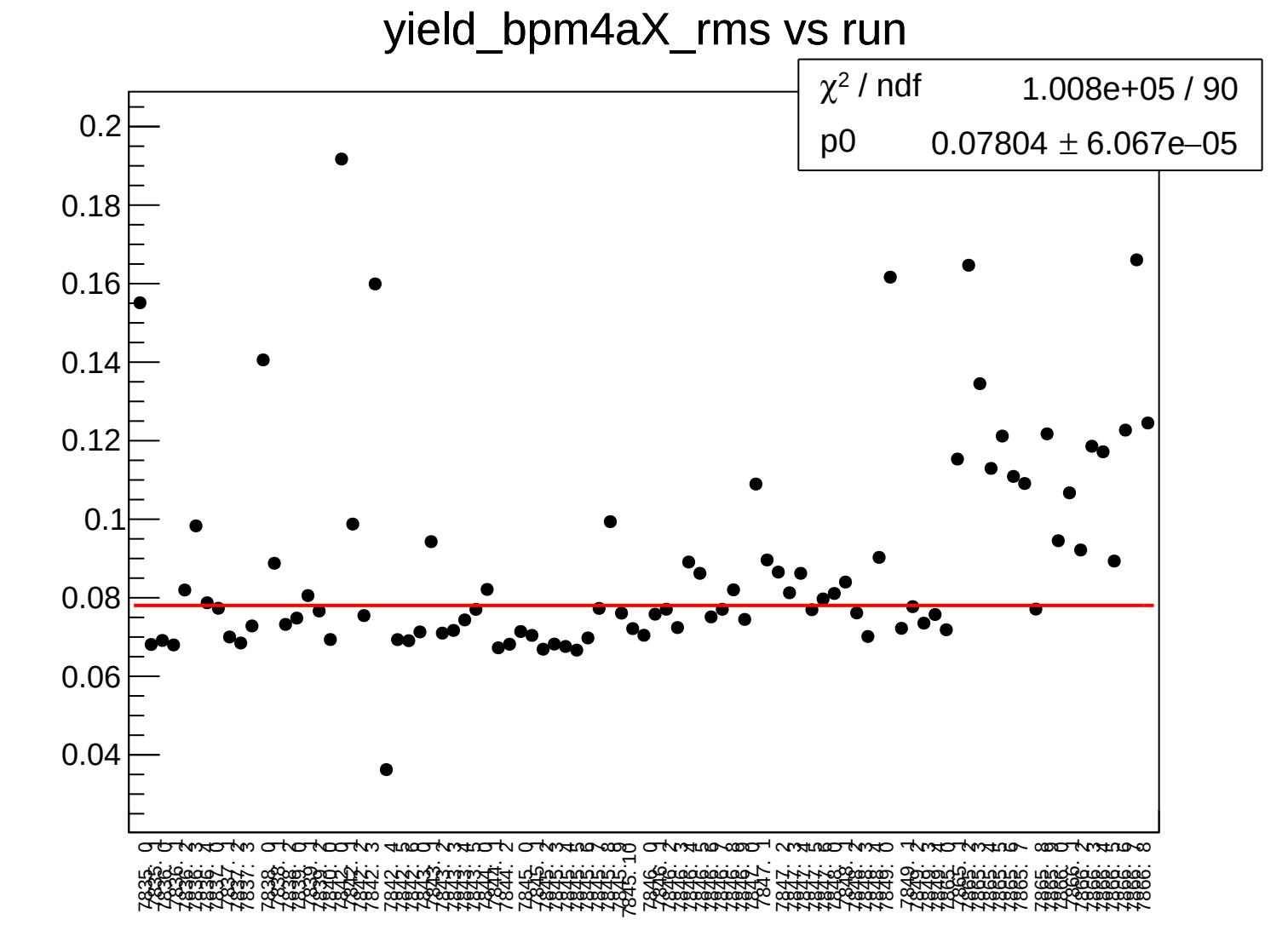

yield_cav4dX_rms vs run
χ^2 / ndf 9.596e+04 / 90
p0 1.691 ± 0.001313
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

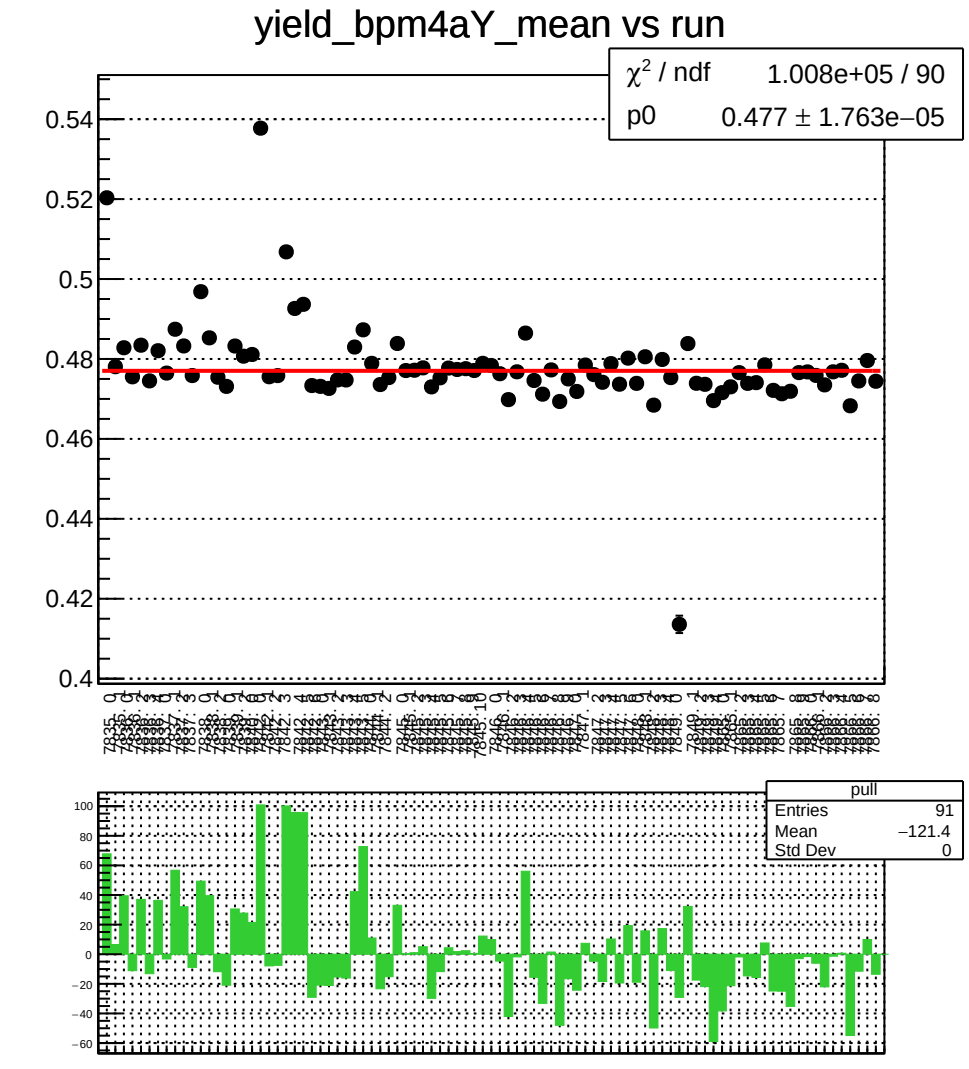

yield_cav4dY_mean vs run
χ² / ndf 2.024e+05 / 90
p0 −30.18 ± 0.0003783
−28.5
−29
−29.5
−30
−30.5
−31
−31.5
pull
Entries 91
Mean −129.6
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 91
Mean 1.694
Std Dev 4.798
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

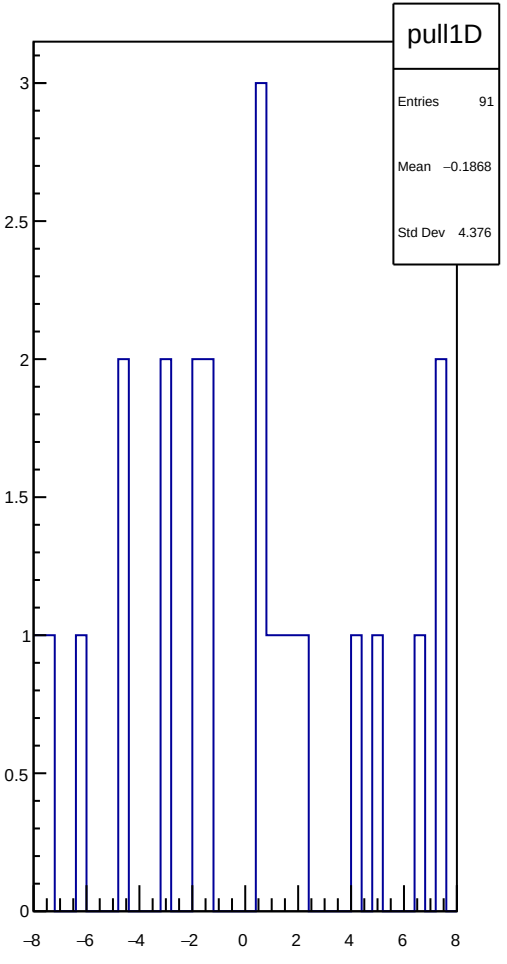

yield_cav4dY_rms vs run
χ^2 / ndf 7.521e+04 / 90
p0 0.3467 ± 0.0002675
5
4
3
2
1

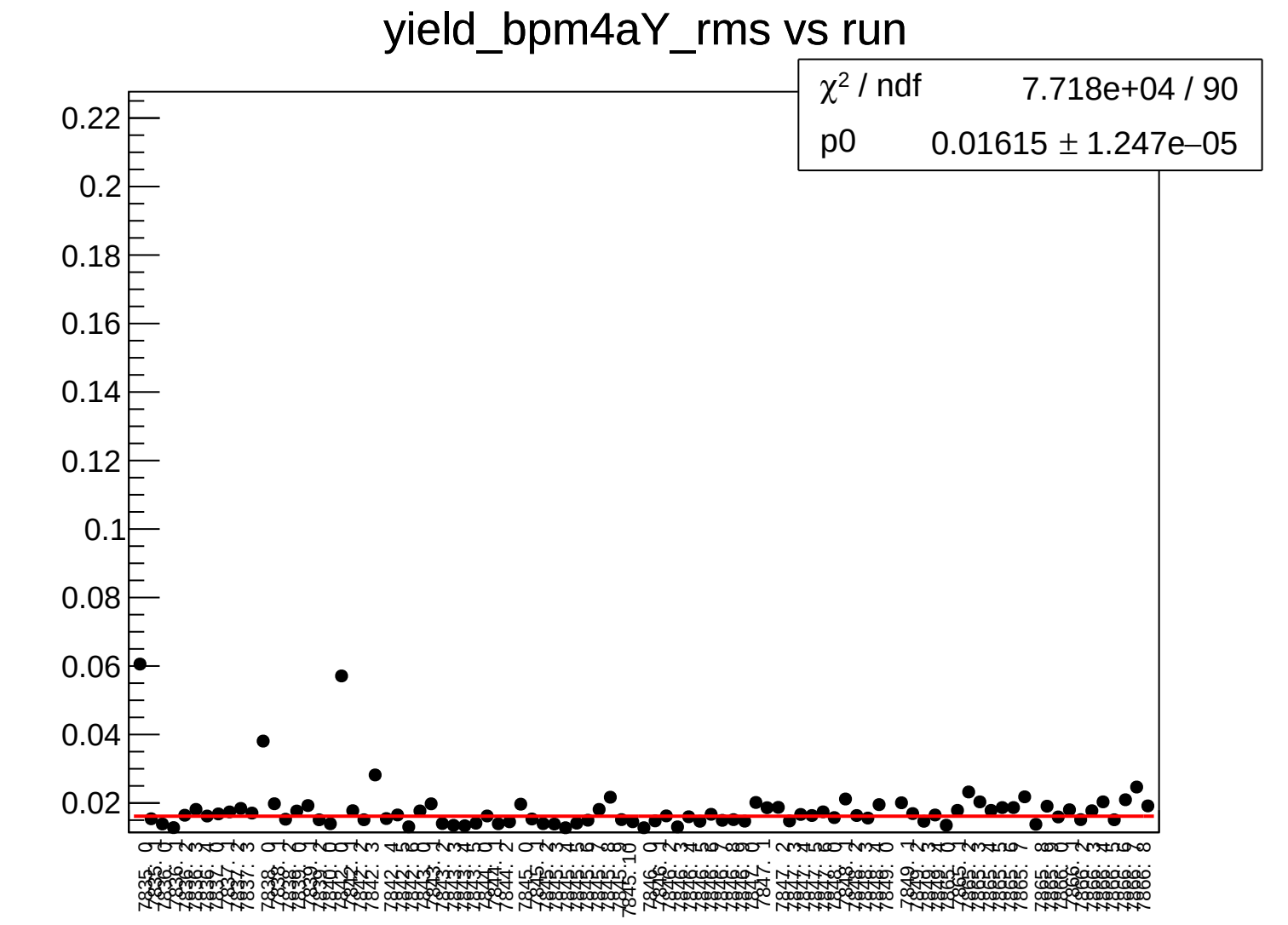

yield_bpm4aX_mean vs run
χ² / ndf 6.578e+04 / 90
p0 −0.5699 ± 8.581e−05
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 91
Mean 596.7
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

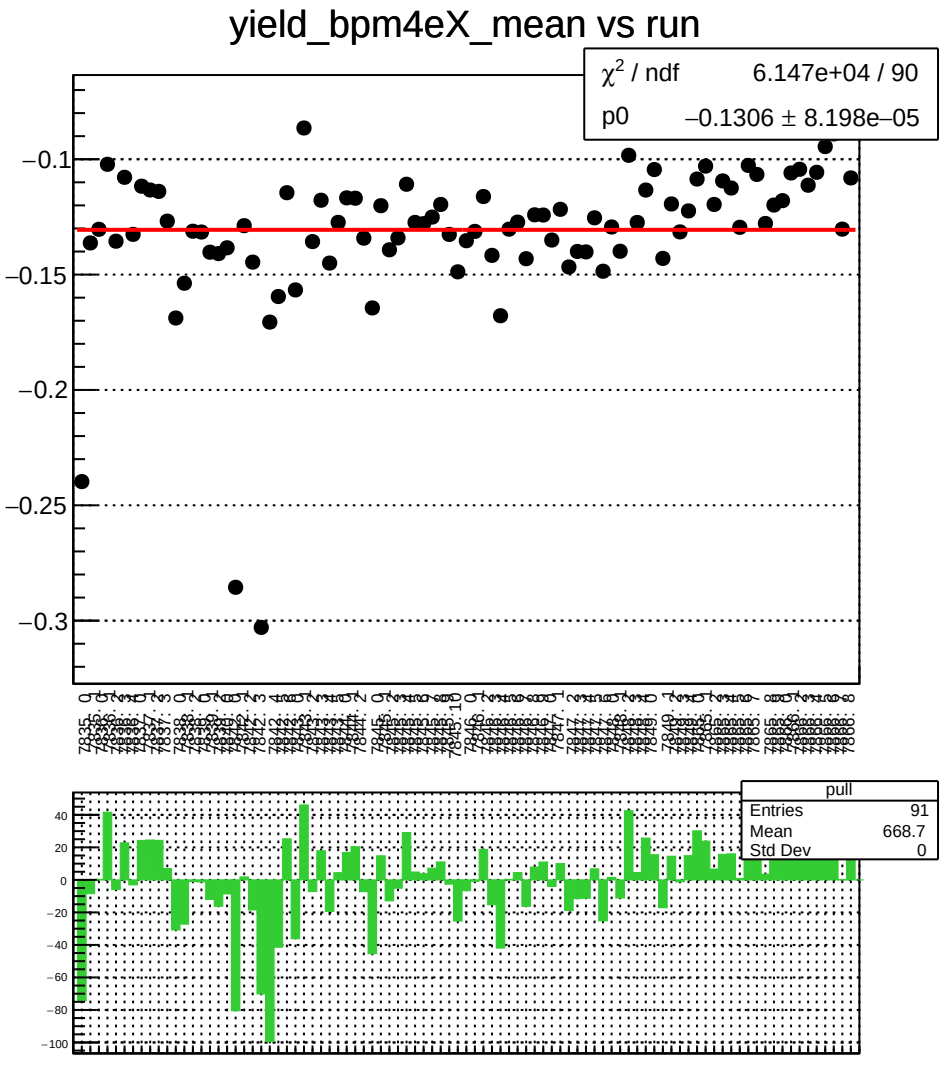

pull1D
Entries 91
Mean 0.5755
Std Dev 4.095
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

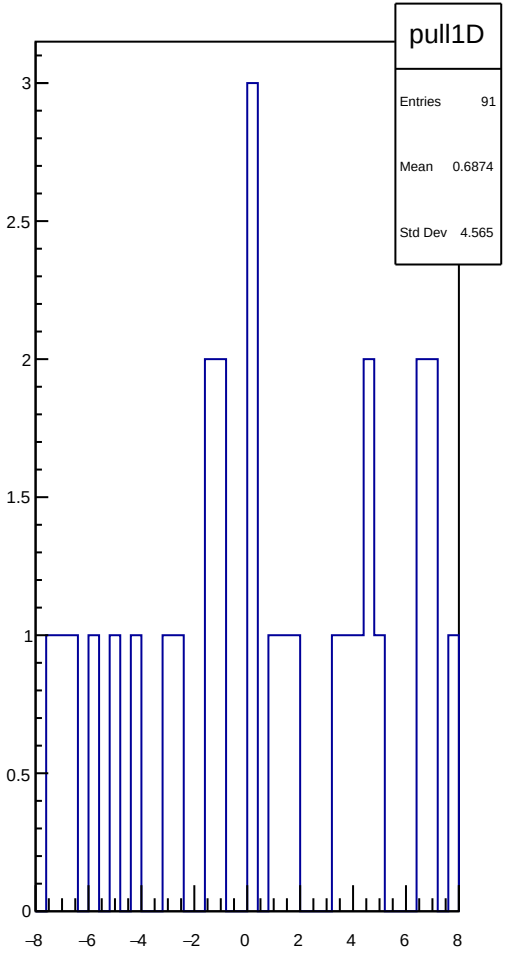

yield_bpm4aX_rms vs run
χ² / ndf 1.008e+05 / 90
p0 0.07804 ± 6.067e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

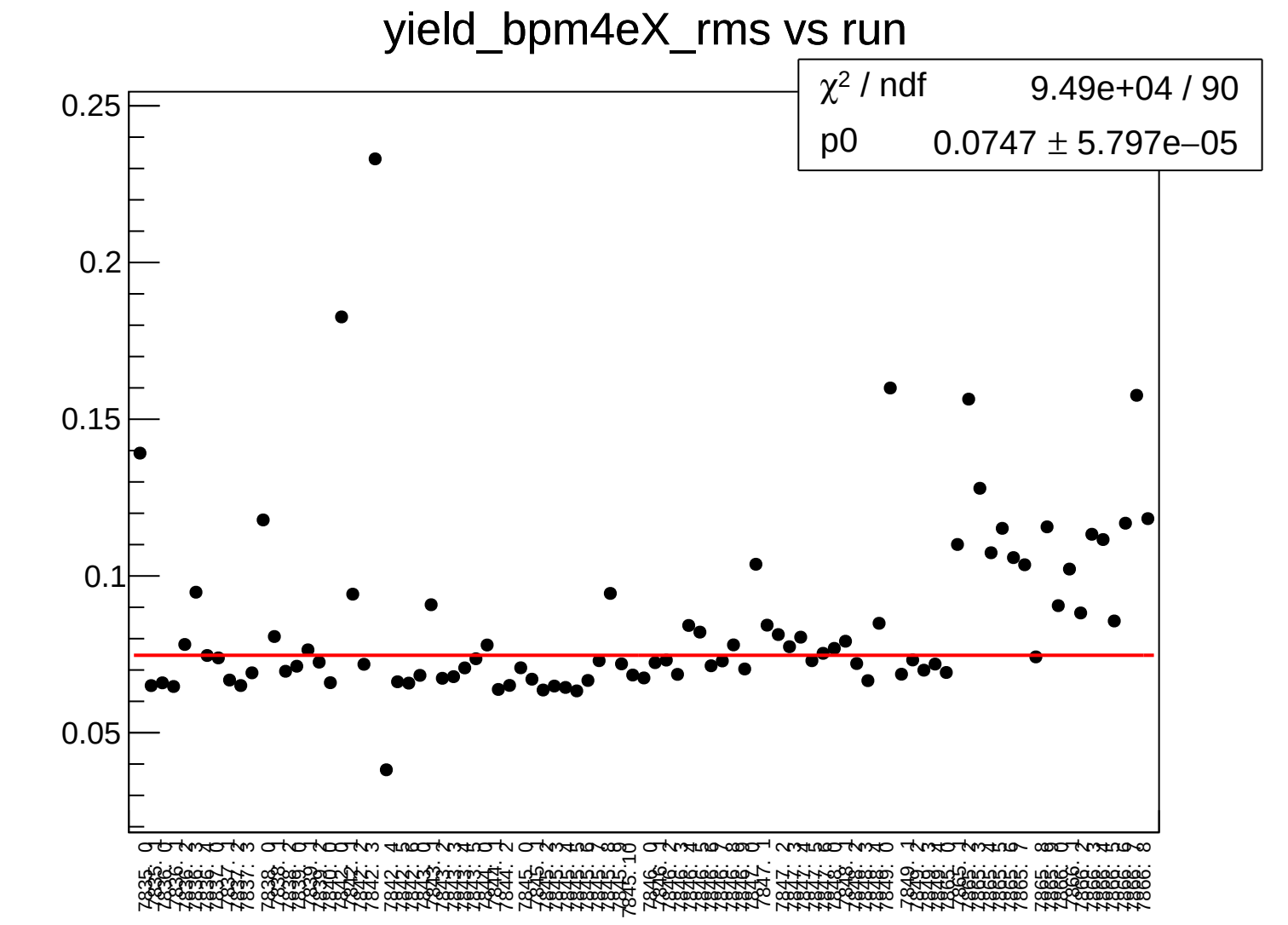

yield_bpm4aY_mean vs run
χ² / ndf 1.008e+05 / 90
p0 0.477 ± 1.763e−05
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
pull
Entries 91
Mean −121.4
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

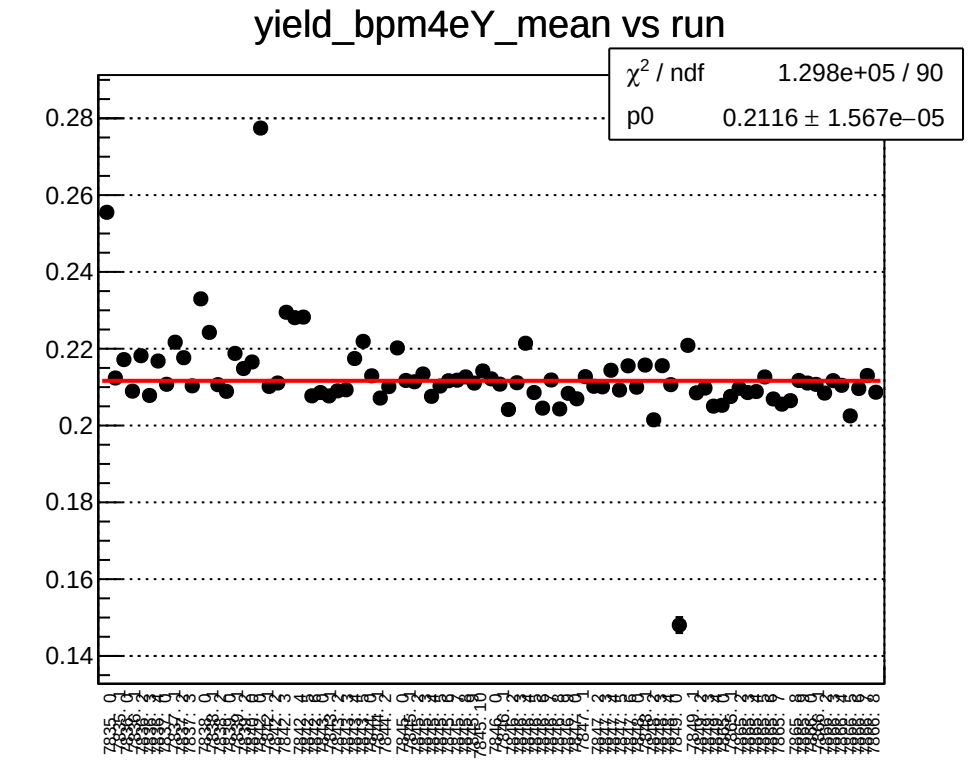

pull1D
Entries 91
Mean −0.1868
Std Dev 4.376
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

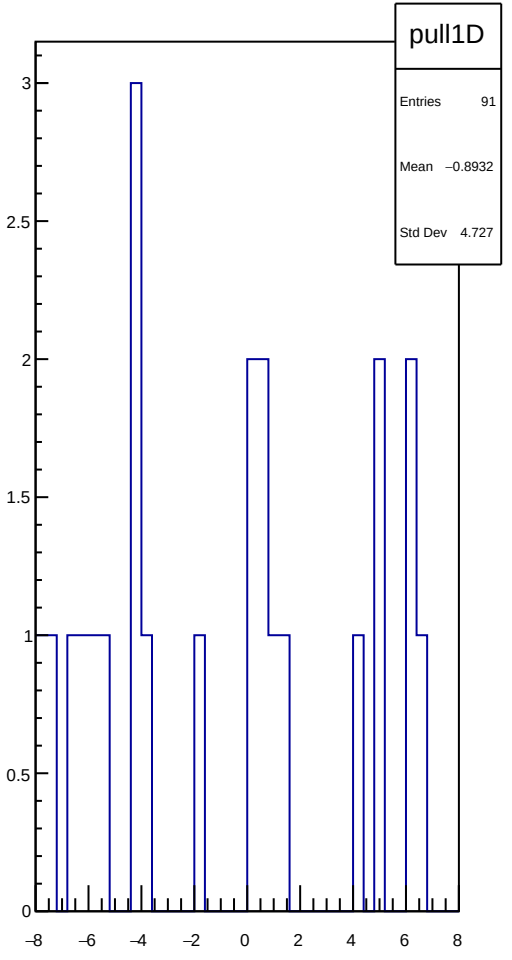

yield_bpm4aY_rms vs run
χ² / ndf 7.718e+04 / 90
p0 0.01615 ± 1.247e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

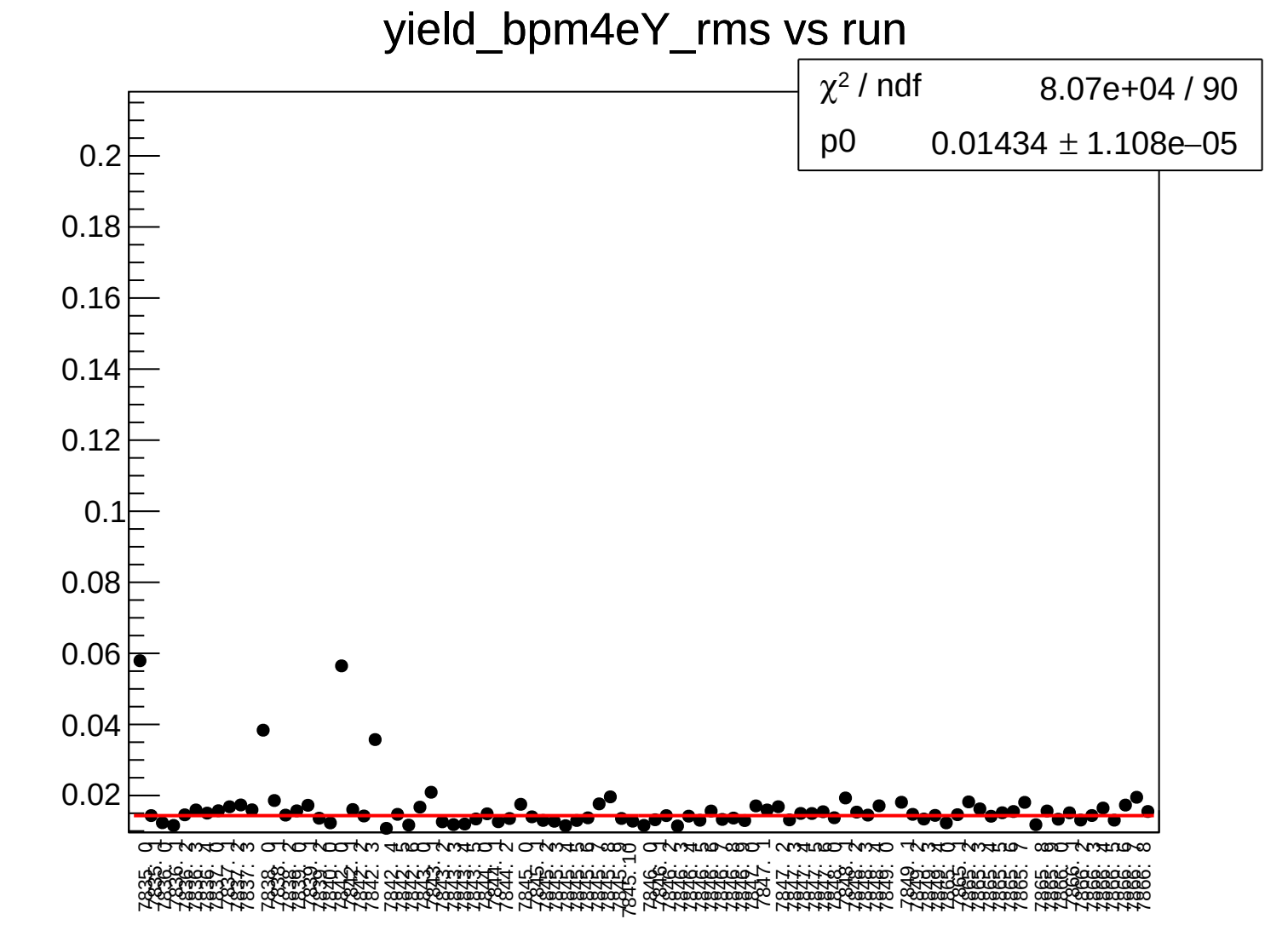

yield_bpm4eX_mean vs run
χ² / ndf 6.147e+04 / 90
p0 −0.1306 ± 8.198e−05
pull
Entries 91
Mean 668.7
Std Dev 0

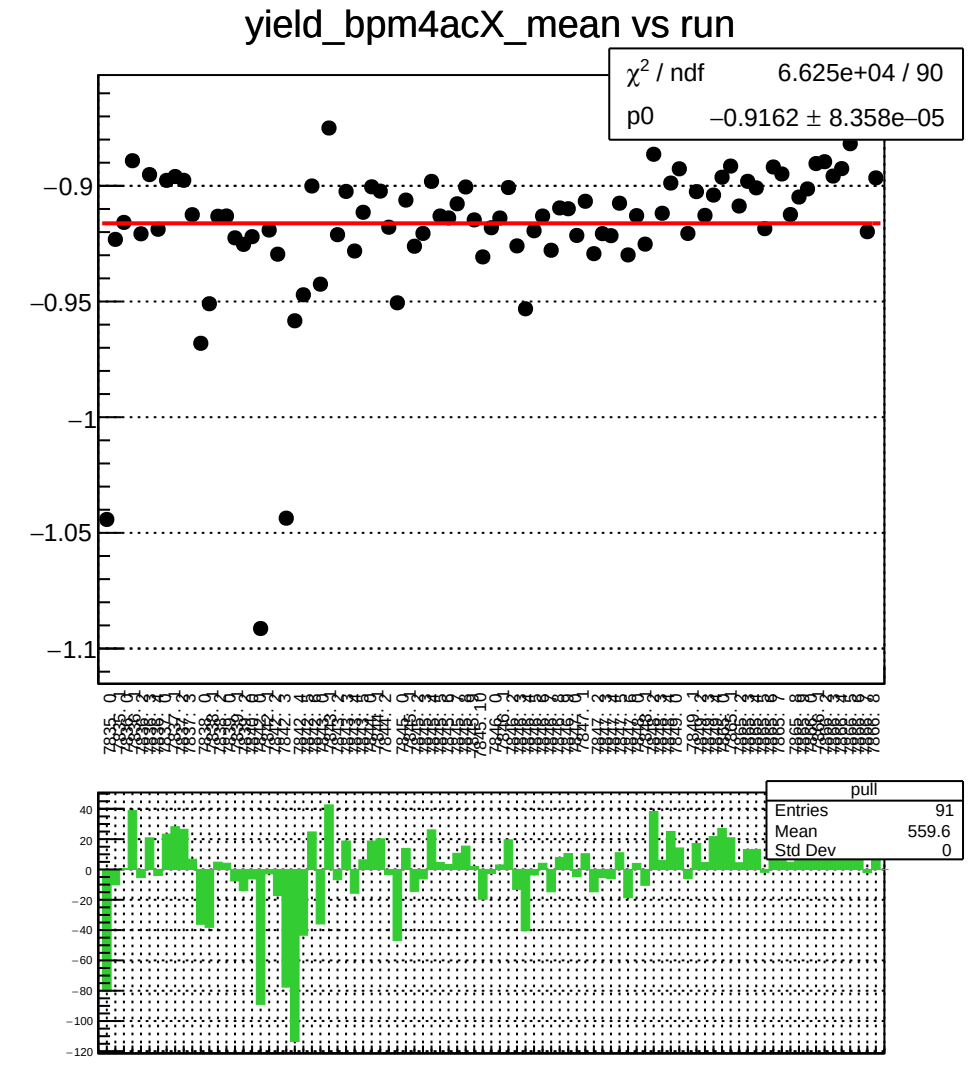

pull1D
Entries 91
Mean 0.6874
Std Dev 4.565

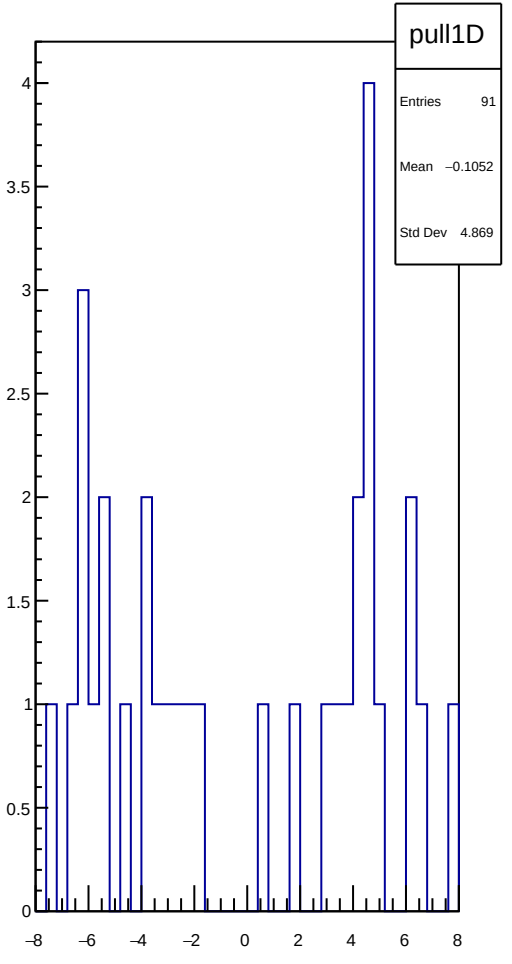

yield_bpm4eX_rms vs run
χ² / ndf 9.49e+04 / 90
p0 0.0747 ± 5.797e−05
0.25
0.2
0.15
0.1
0.05

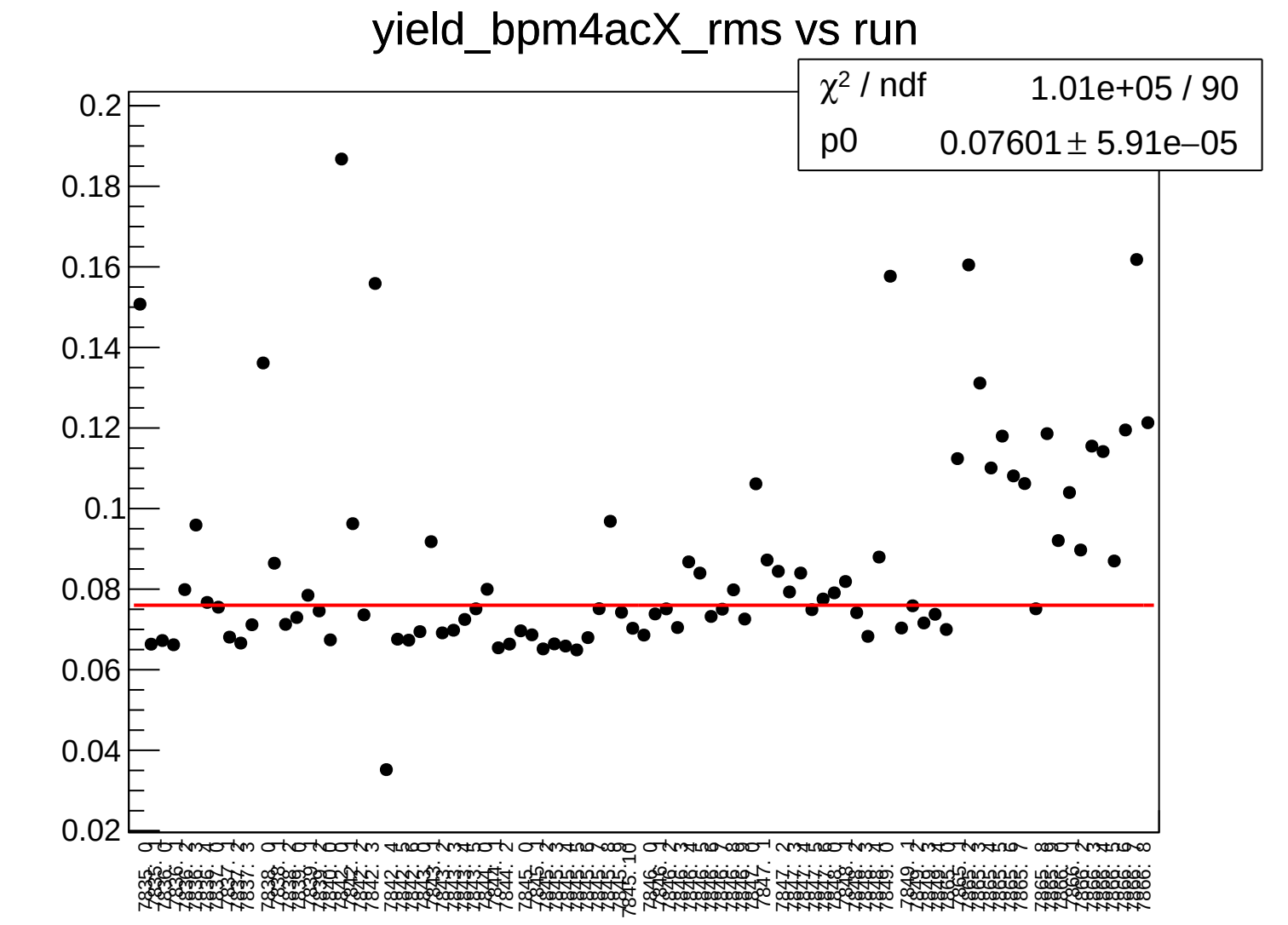

yield_bpm4eY_mean vs run
χ² / ndf 1.298e+05 / 90
p0 0.2116 ± 1.567e−05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
pull
Entries 91
Mean −136.9
Std Dev 0
150
100
50
0
−50

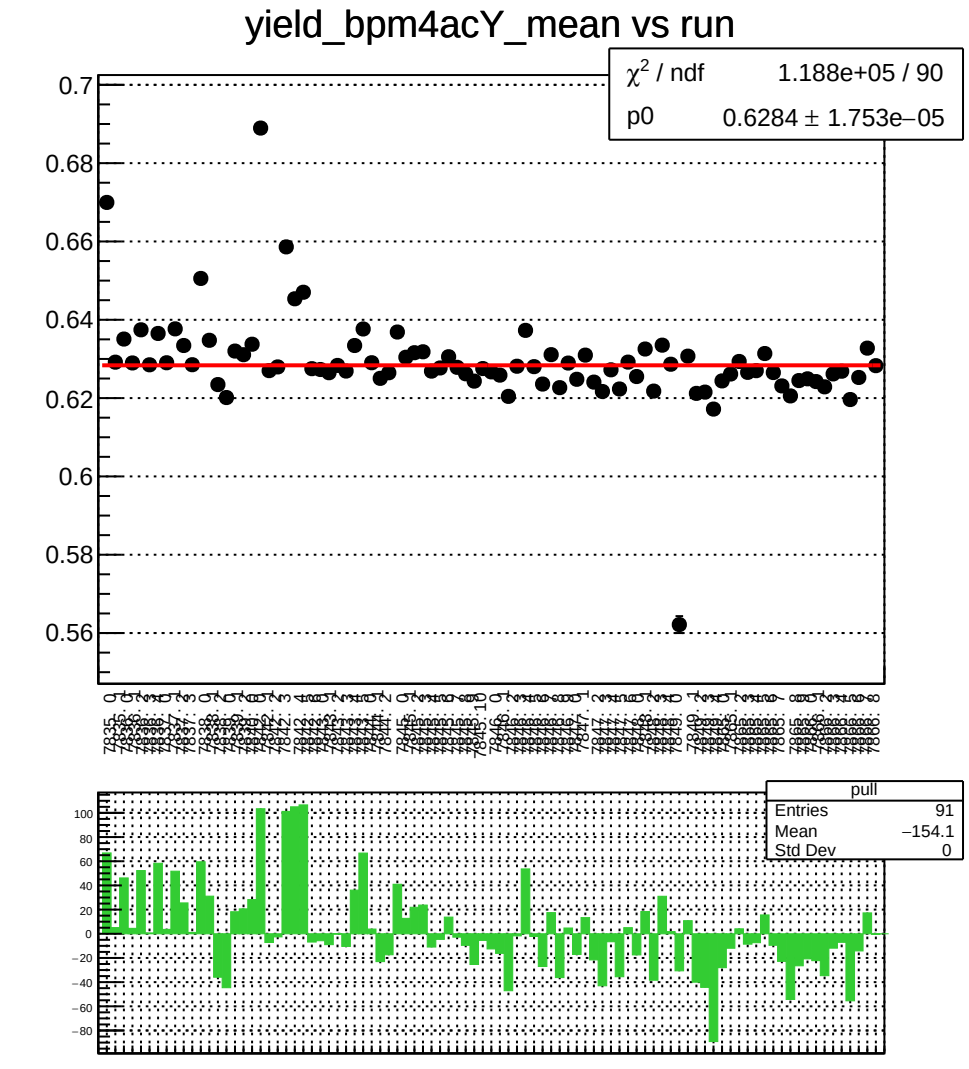

pull1D
Entries 91
Mean −0.8932
Std Dev 4.727
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

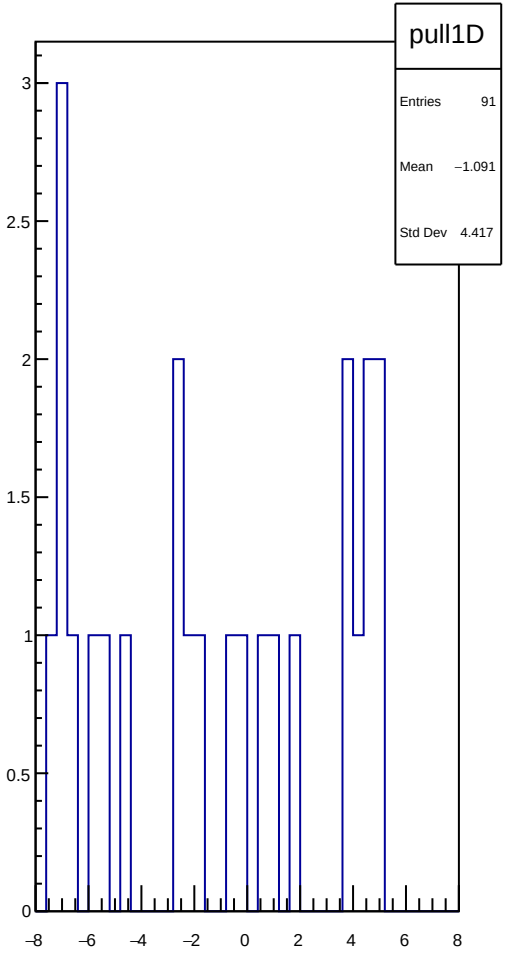

yield_bpm4eY_rms vs run
χ² / ndf 8.07e+04 / 90
p0 0.01434 ± 1.108e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

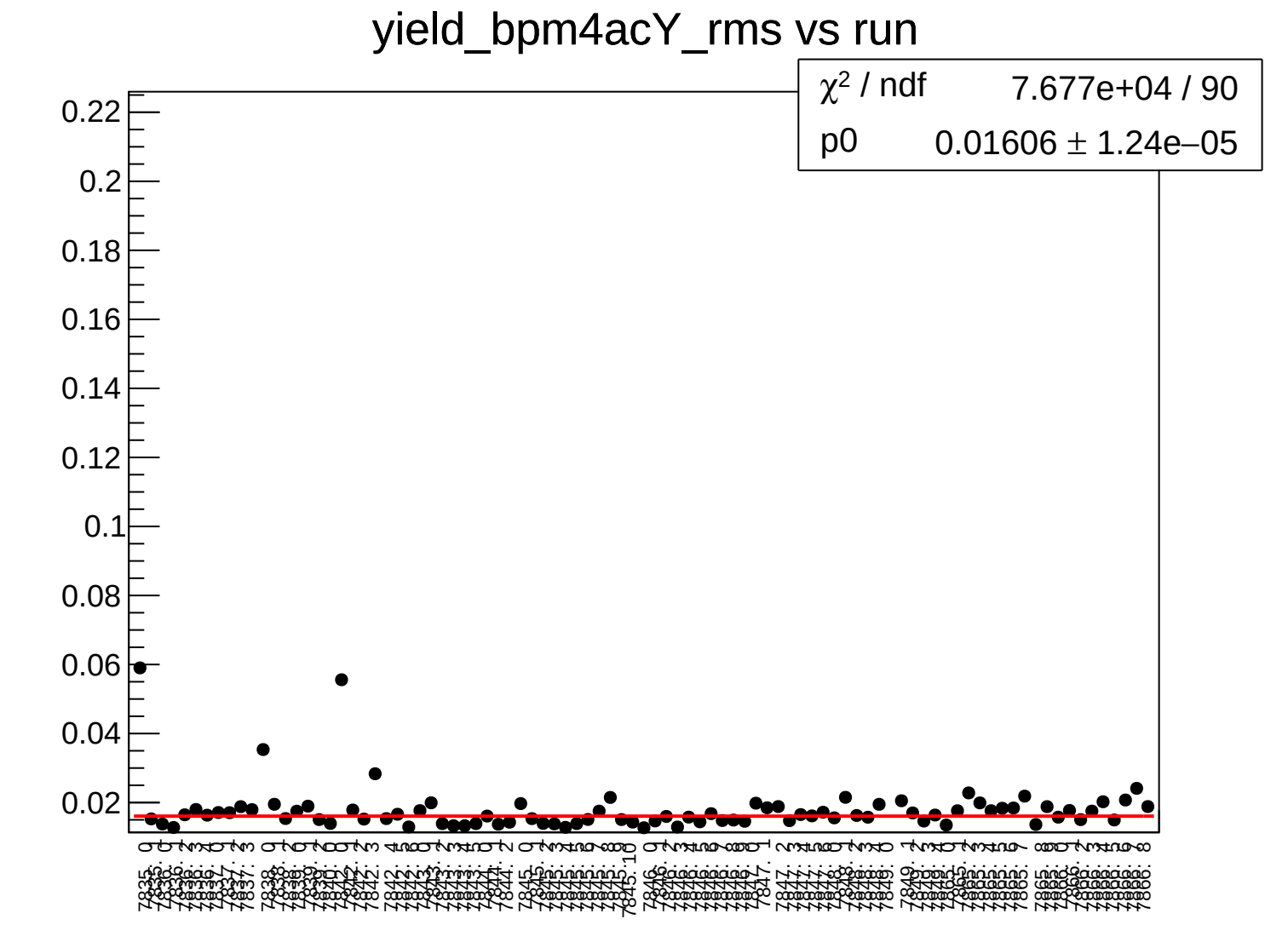

yield_bpm4acX_mean vs run
χ² / ndf 6.625e+04 / 90
p0 −0.9162 ± 8.358e−05
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 91
Mean 559.6
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

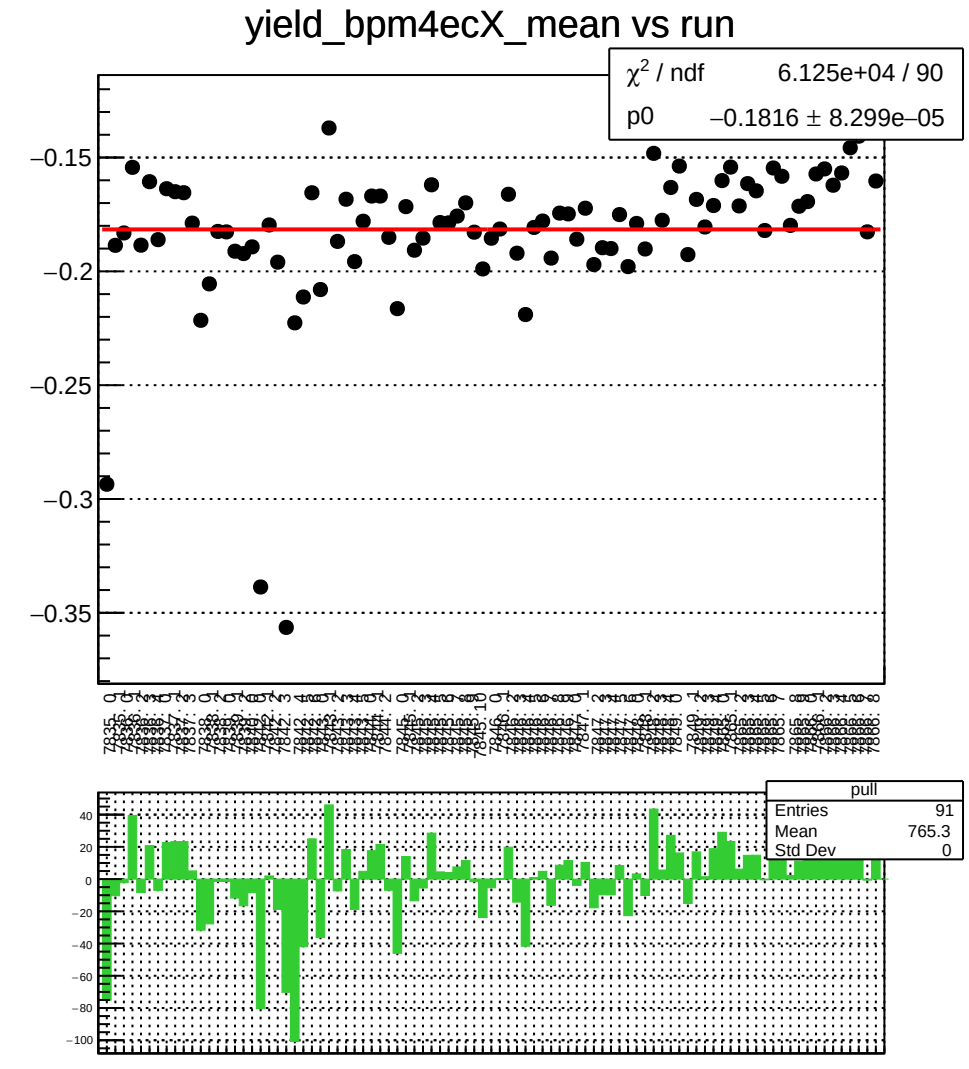

pull1D
Entries 91
Mean −0.1052
Std Dev 4.869
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

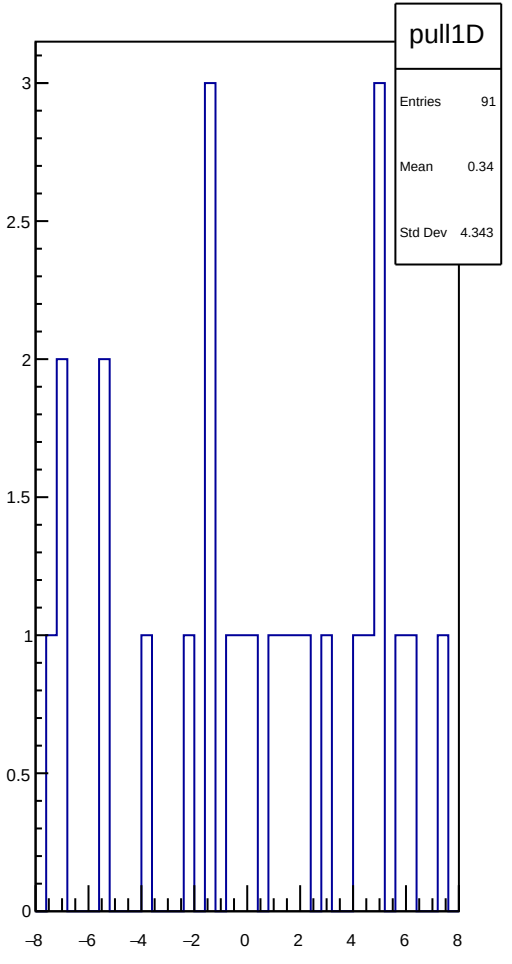

yield_bpm4acX_rms vs run
χ² / ndf 1.01e+05 / 90
p0 0.07601 ± 5.91e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

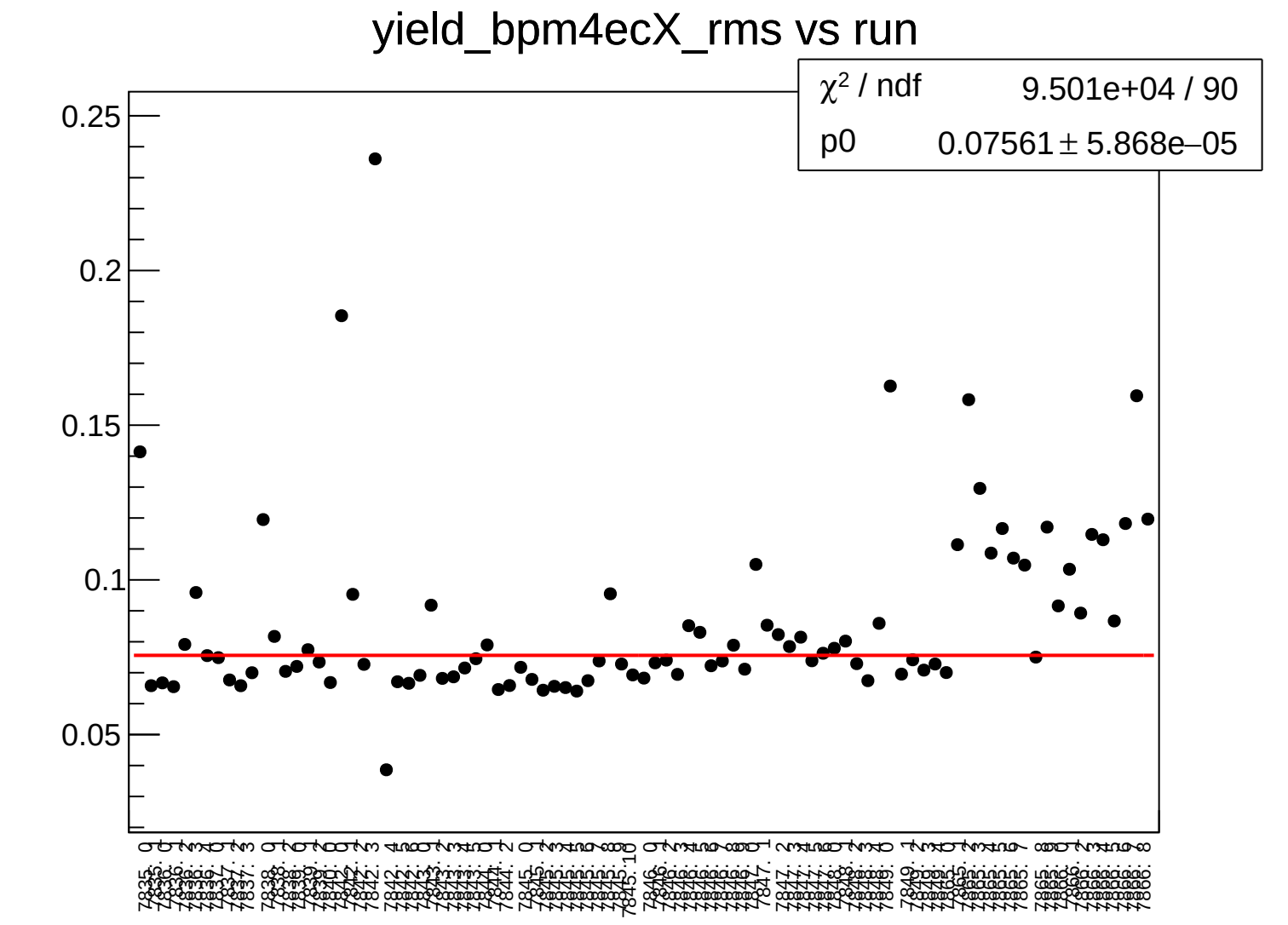

yield_bpm4acY_mean vs run
χ² / ndf 1.188e+05 / 90
p0 0.6284 ± 1.753e−05
pull
Entries 91
Mean −154.1
Std Dev 0

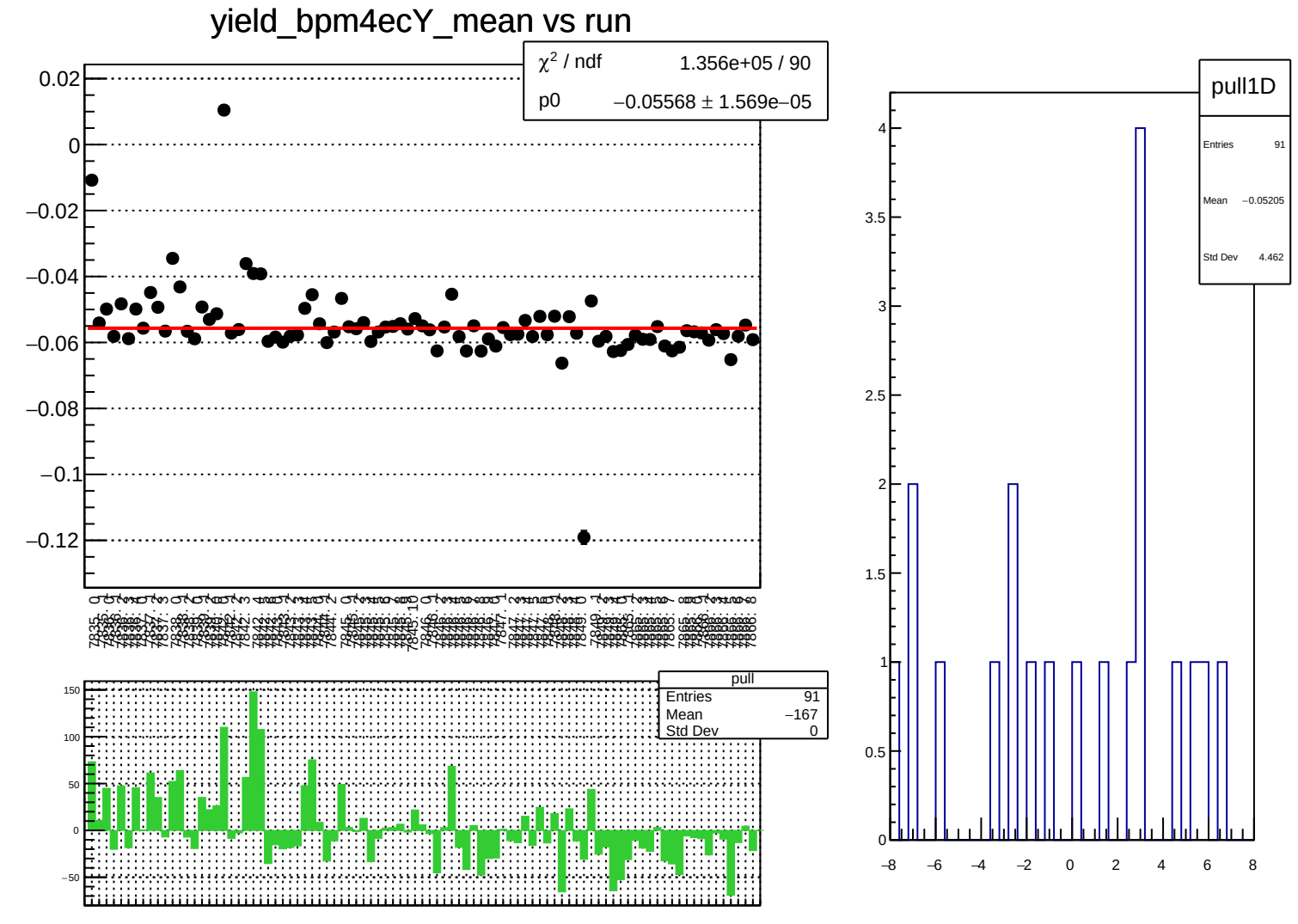

pull1D
Entries 91
Mean −1.091
Std Dev 4.417

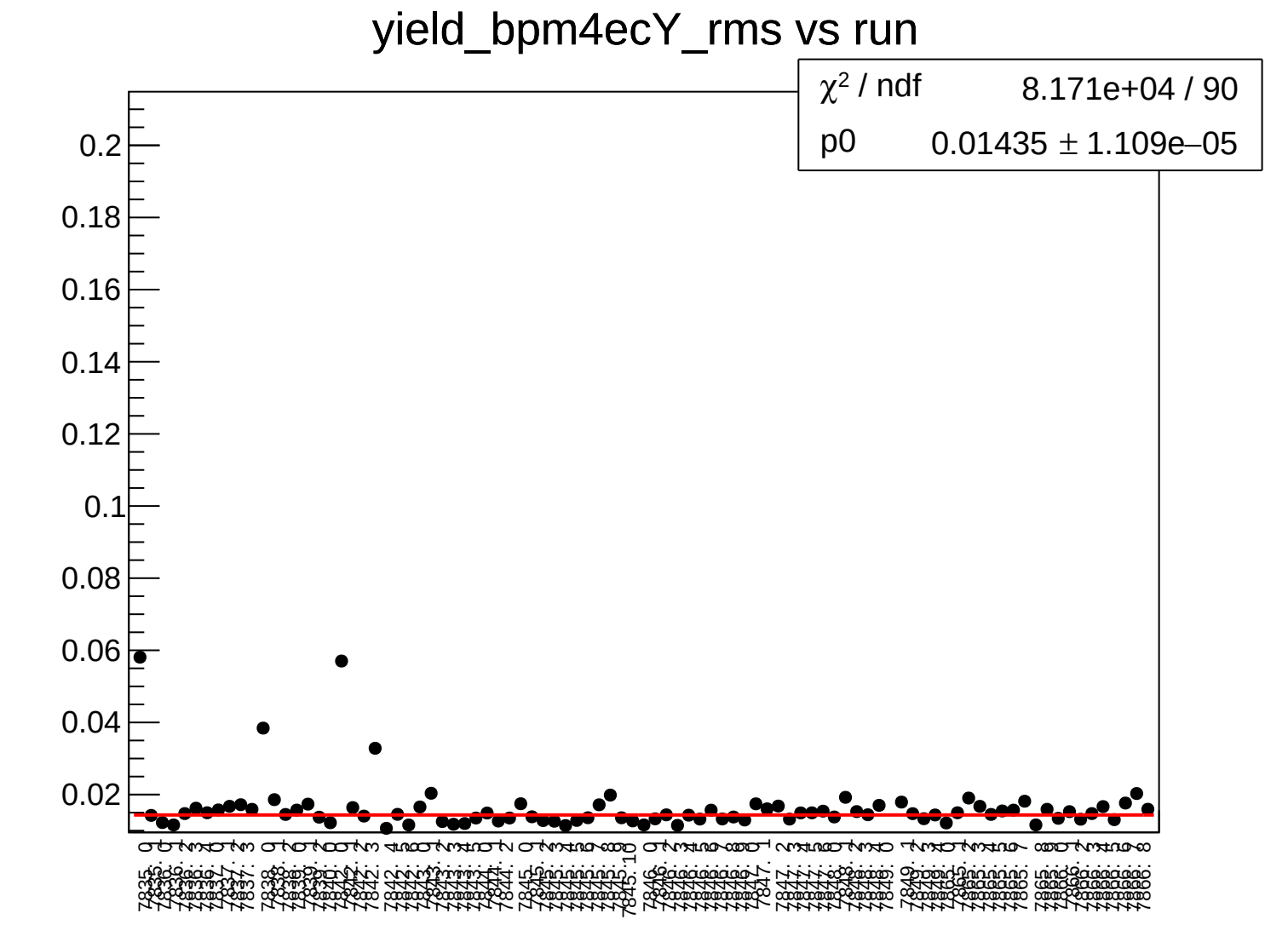

yield_bpm4acY_rms vs run
χ² / ndf 7.677e+04 / 90
p0 0.01606 ± 1.24e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

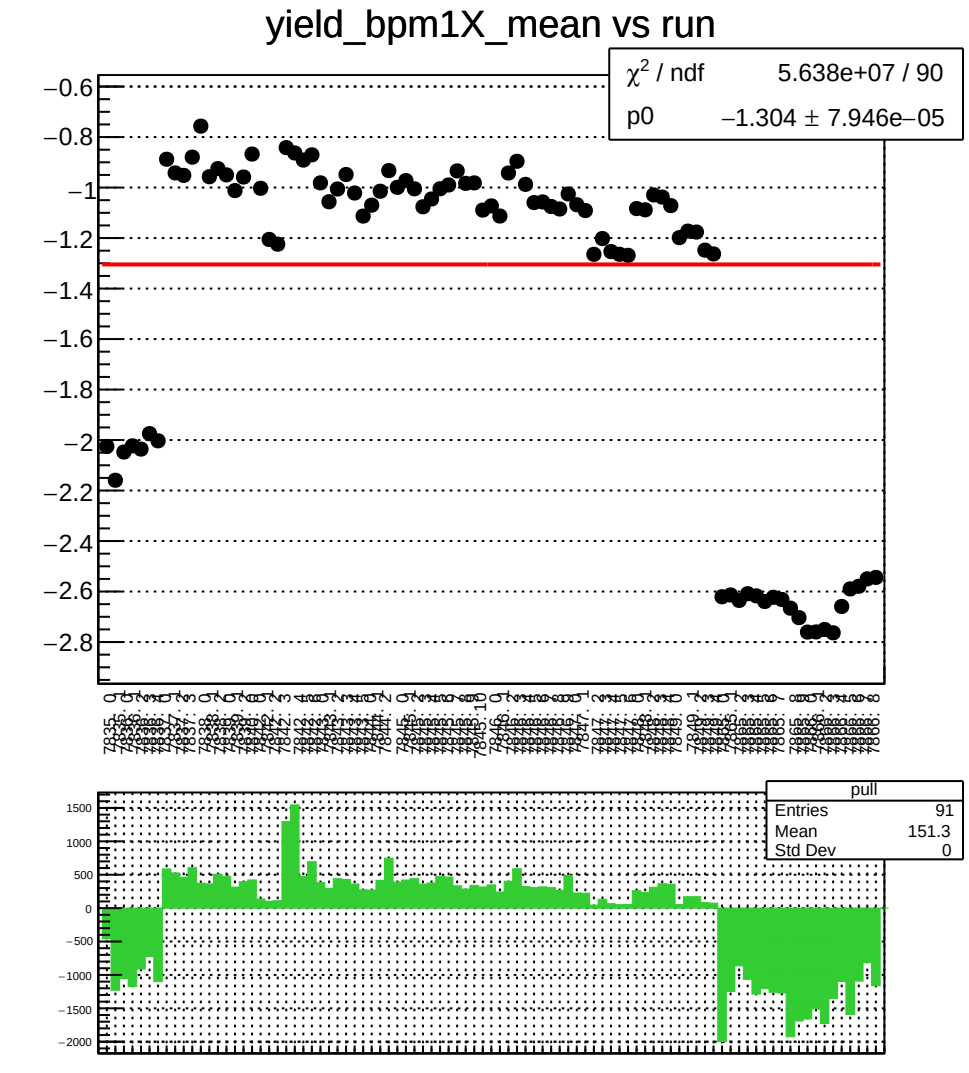

yield_bpm4ecX_mean vs run
χ² / ndf 6.125e+04 / 90
p0 −0.1816 ± 8.299e−05
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 91
Mean 765.3
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

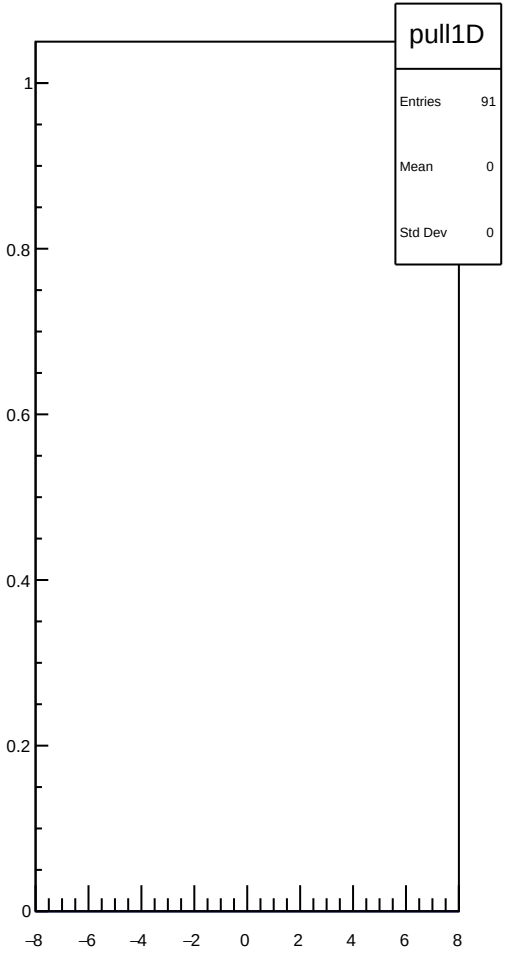

pull1D
Entries 91
Mean 0.34
Std Dev 4.343
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

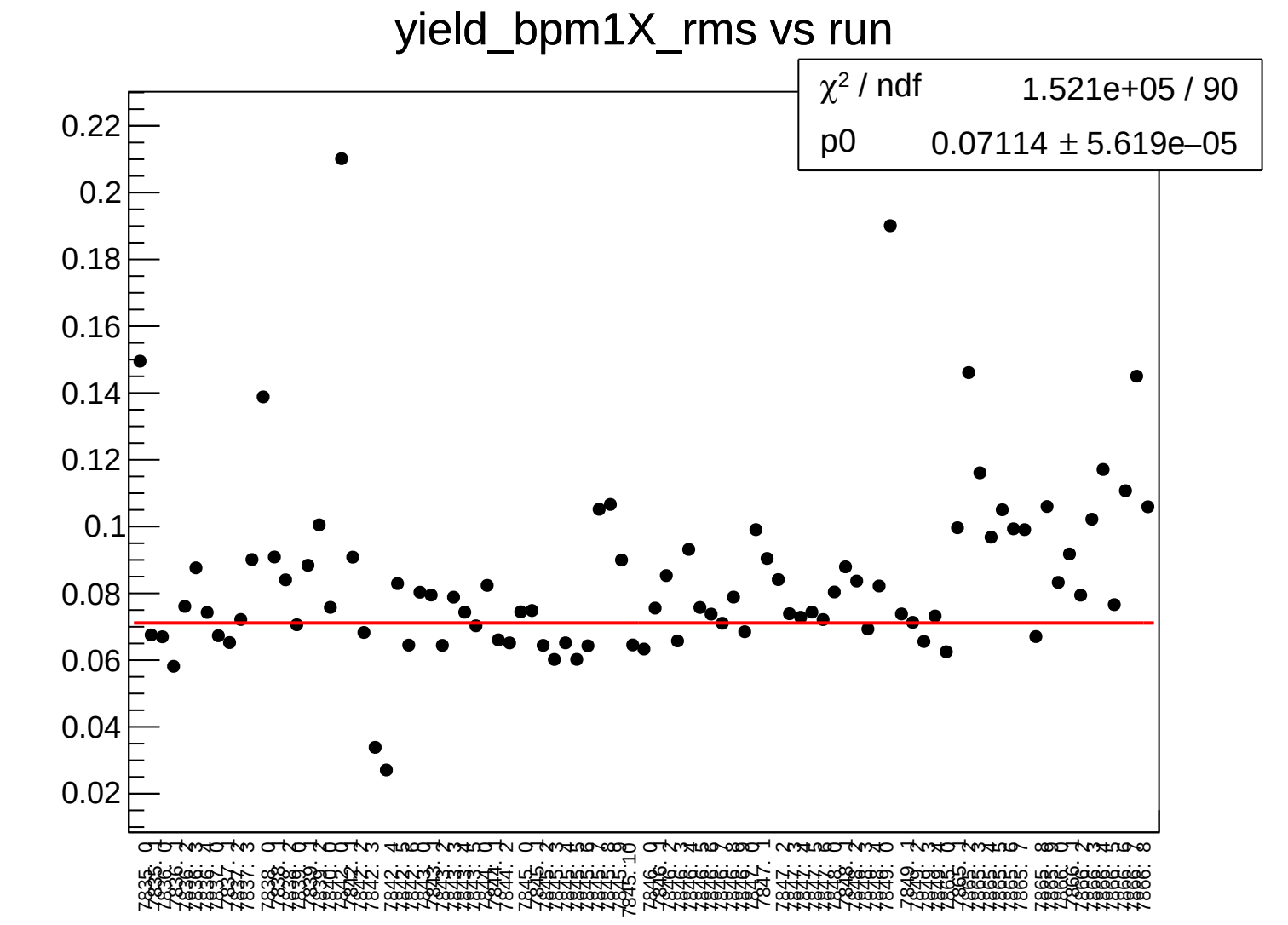

yield_bpm4ecX_rms vs run
χ² / ndf 9.501e+04 / 90
p0 0.07561 ± 5.868e–05
0.25
0.2
0.15
0.1
0.05

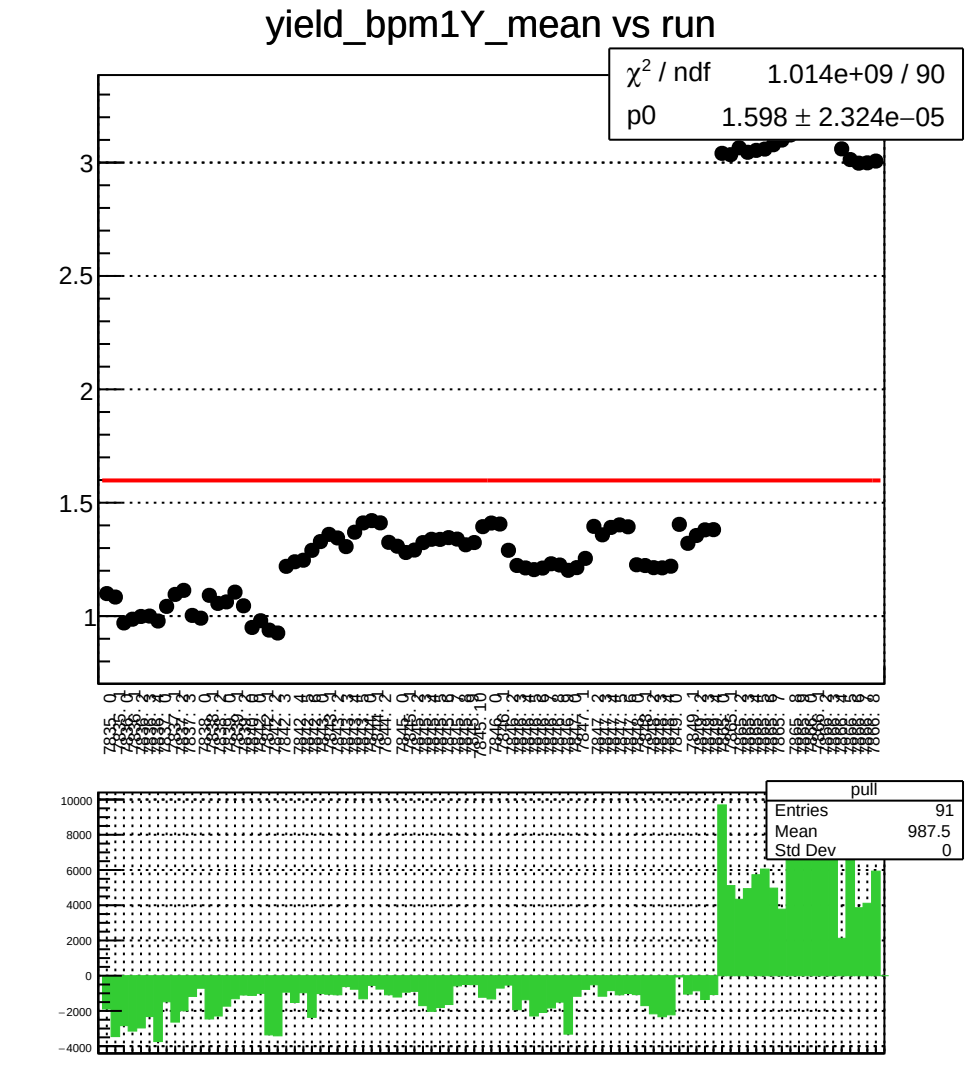

yield_bpm4ecY_mean vs run
χ² / ndf 1.356e+05 / 90
p0 −0.05568 ± 1.569e−05
pull
Entries 91
Mean −167
Std Dev 0
pull1D
Entries 91
Mean −0.05205
Std Dev 4.462

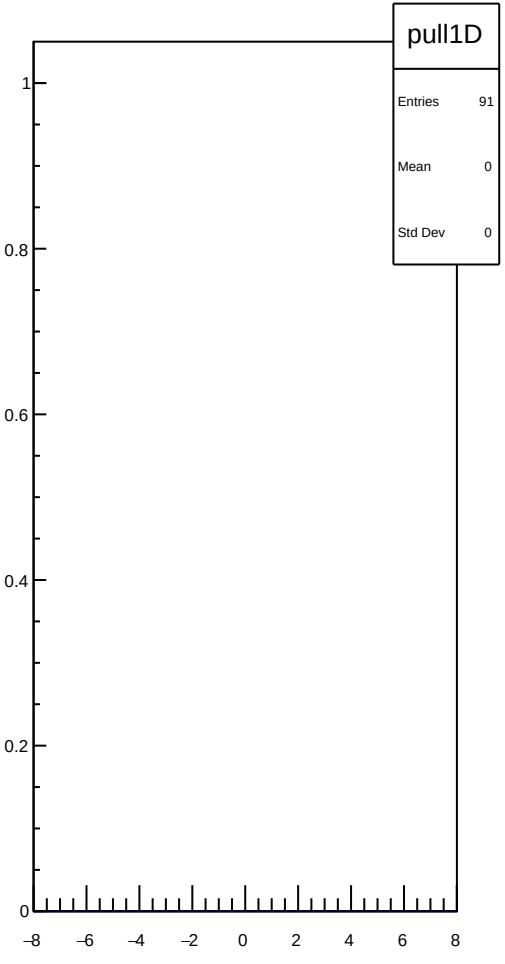

yield_bpm4ecY_rms vs run
χ² / ndf 8.171e+04 / 90
p0 0.01435 ± 1.109e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

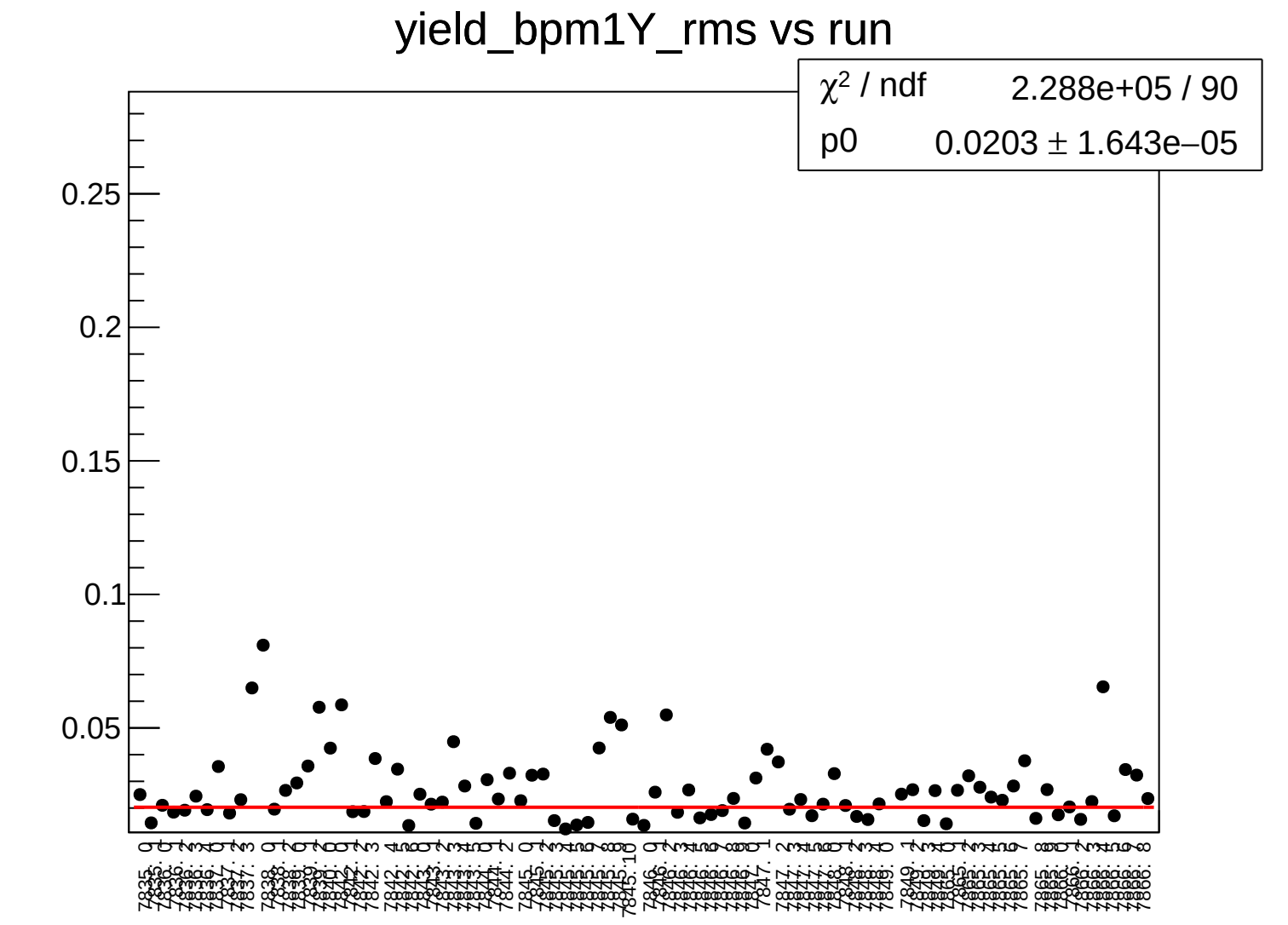

yield_bpm1X_mean vs run
χ² / ndf 5.638e+07 / 90
p0 −1.304 ± 7.946e−05
pull
Entries 91
Mean 151.3
Std Dev 0

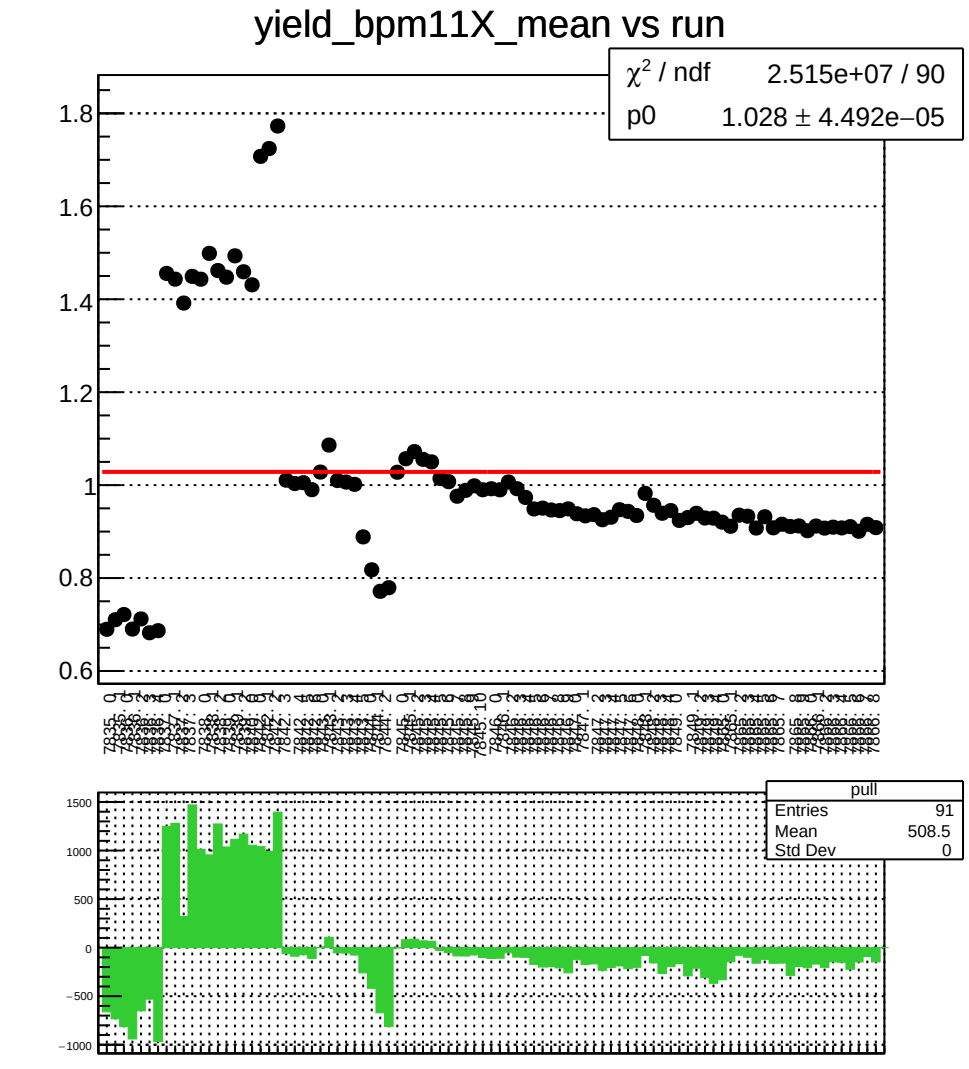

pull1D
Entries 91
Mean 0
Std Dev 0

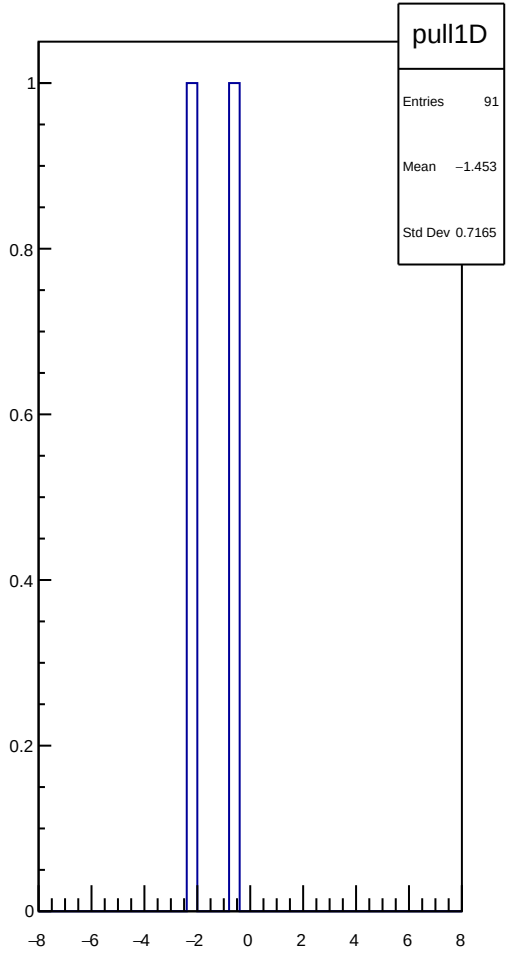

yield_bpm1X_rms vs run
χ² / ndf 1.521e+05 / 90
p0 0.07114 ± 5.619e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

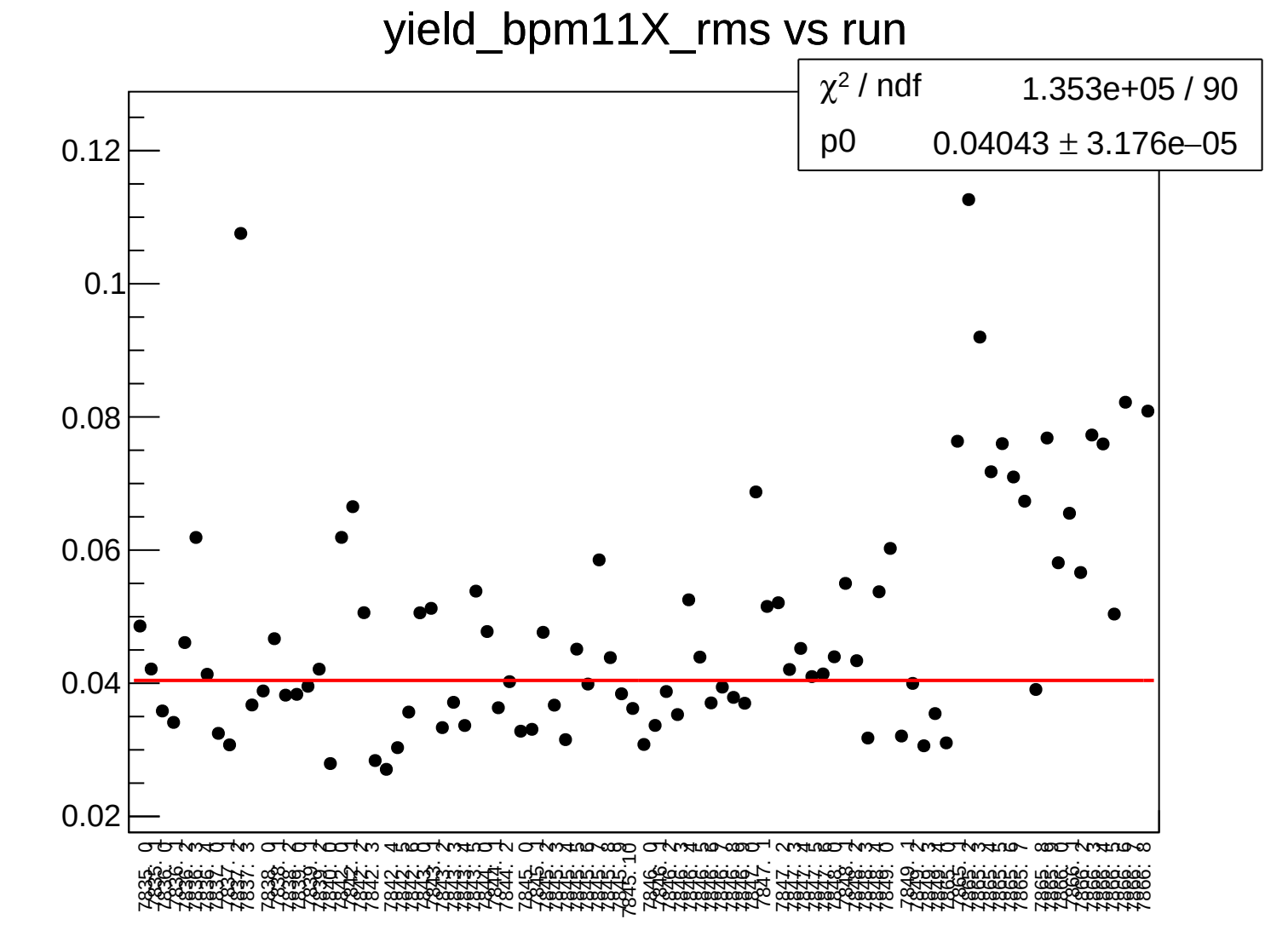

yield_bpm1Y_mean vs run
χ² / ndf 1.014e+09 / 90
p0 1.598 ± 2.324e−05
pull
Entries 91
Mean 987.5
Std Dev 0

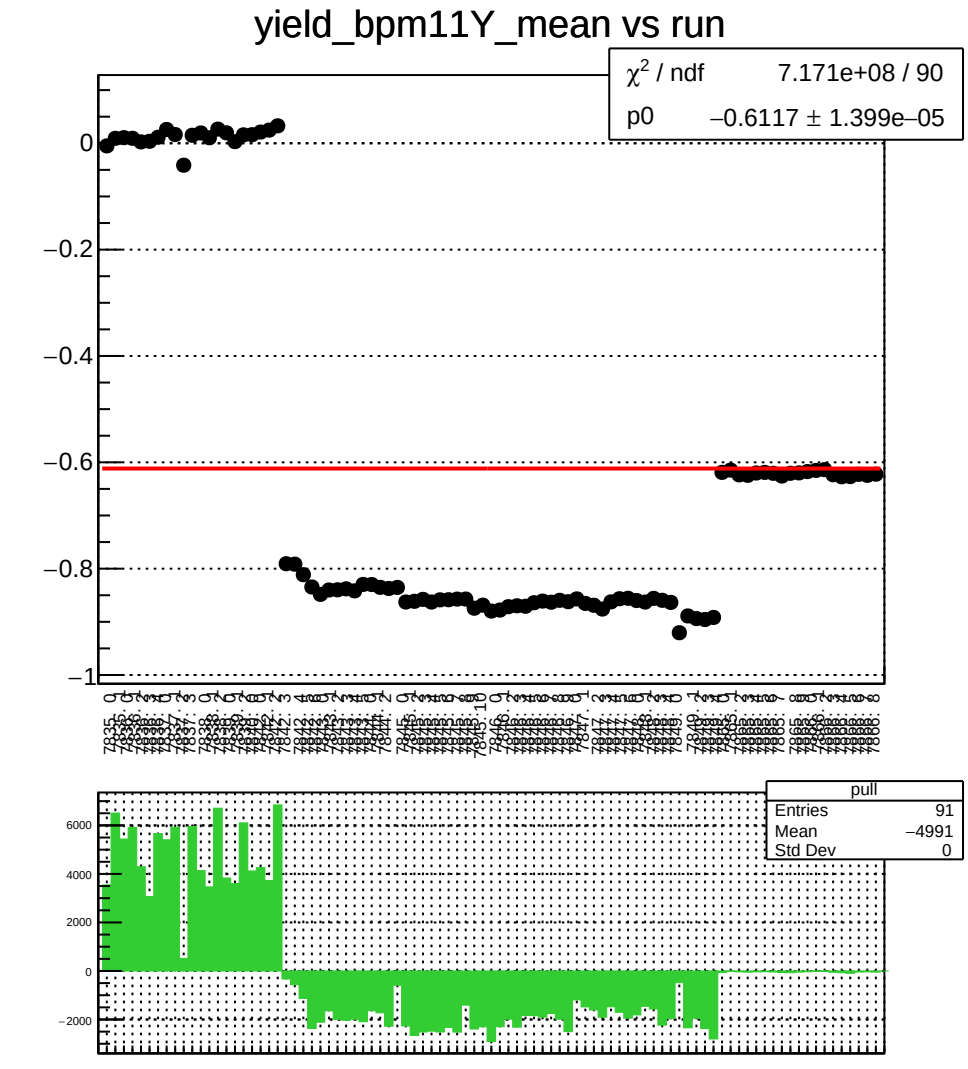

pull1D
Entries 91
Mean 0
Std Dev 0

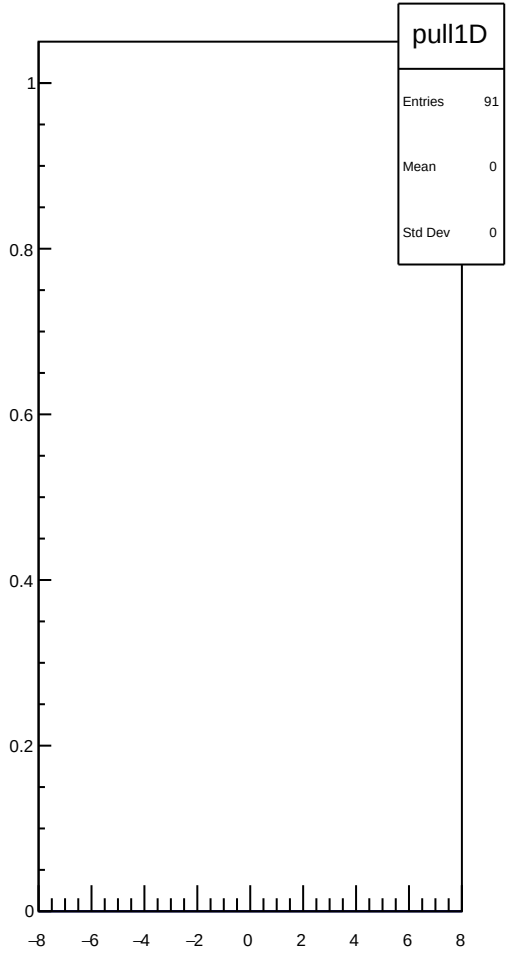

yield_bpm1Y_rms vs run
χ² / ndf 2.288e+05 / 90
p0 0.0203 ± 1.643e−05
0.25
0.2
0.15
0.1
0.05

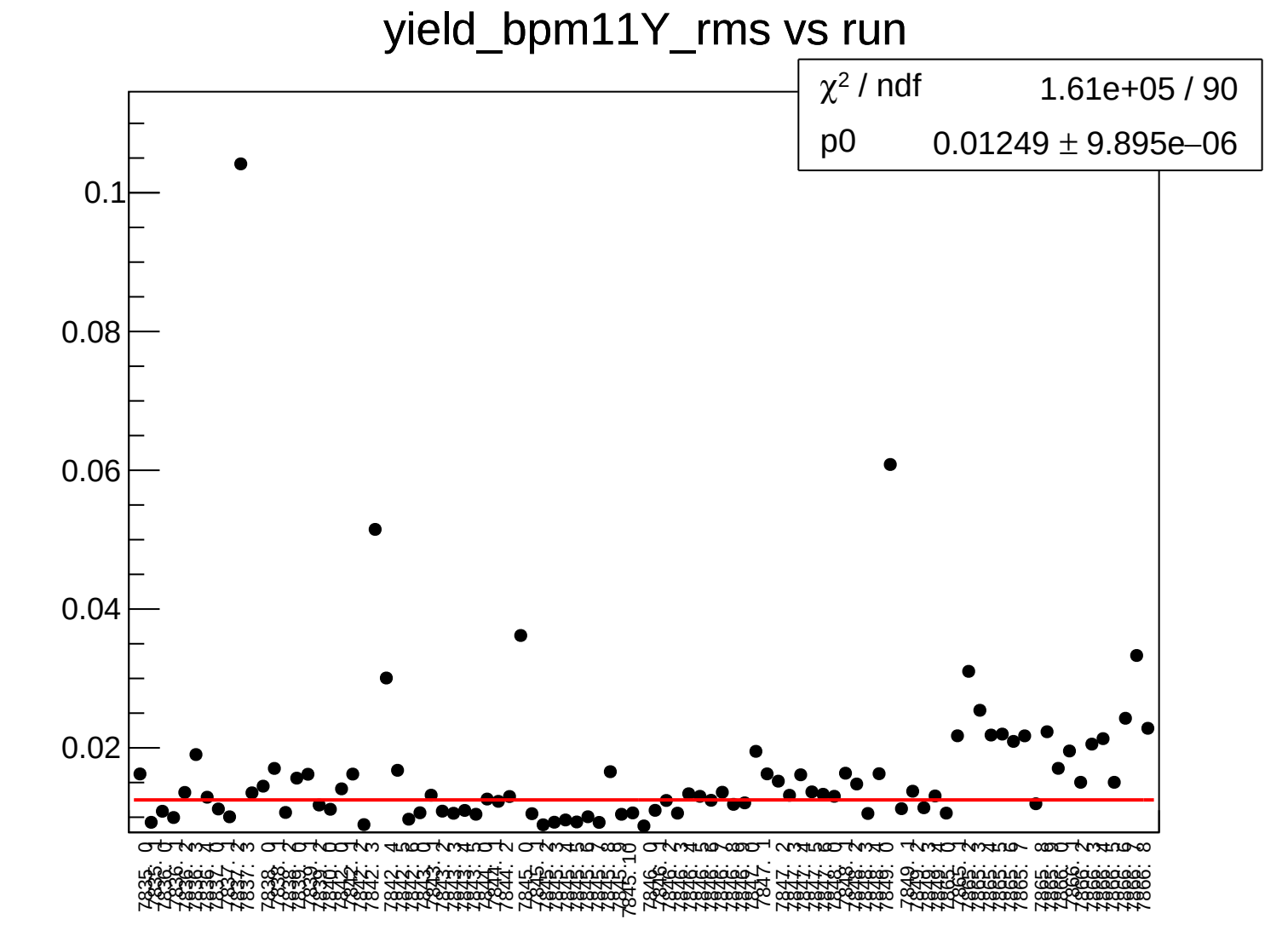

yield_bpm11X_mean vs run
χ² / ndf 2.515e+07 / 90
p0 1.028 ± 4.492e−05
pull
Entries 91
Mean 508.5
Std Dev 0

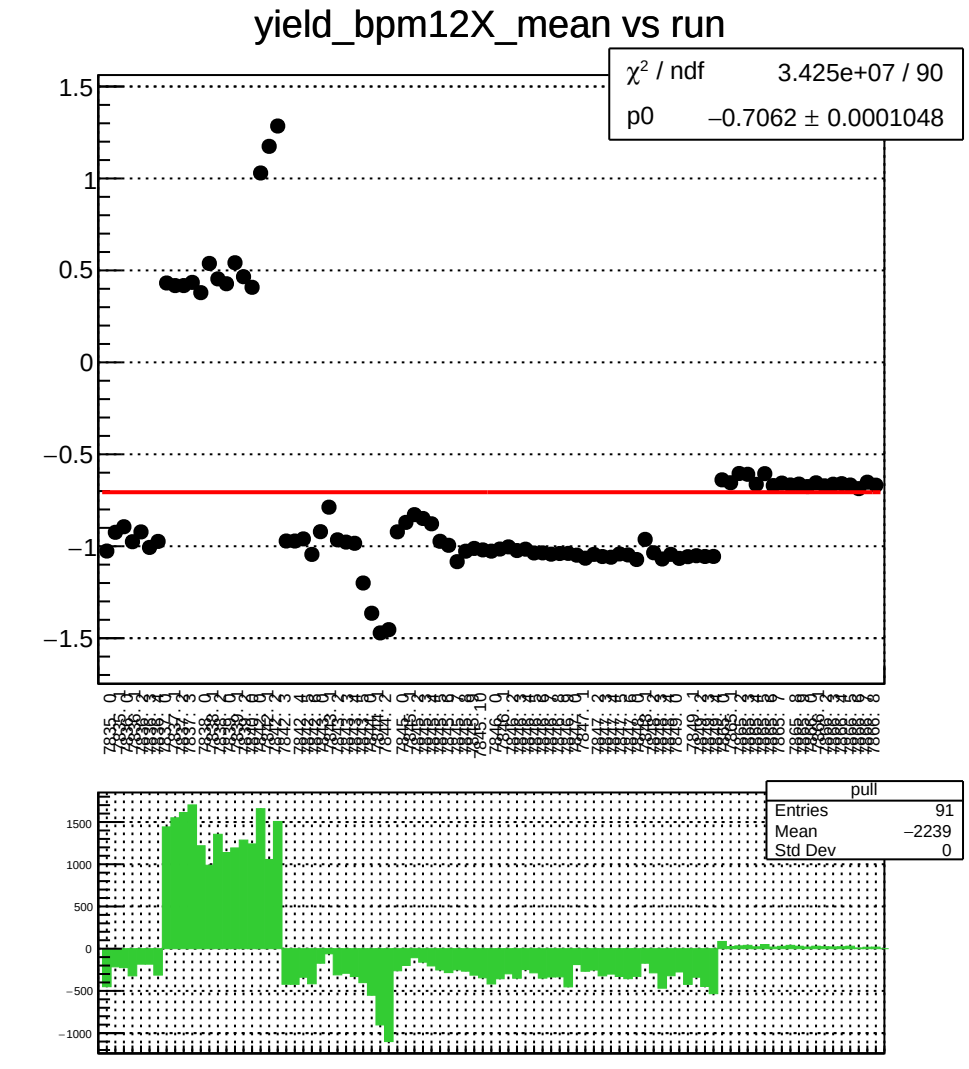

pull1D
Entries 91
Mean −1.453
Std Dev 0.7165

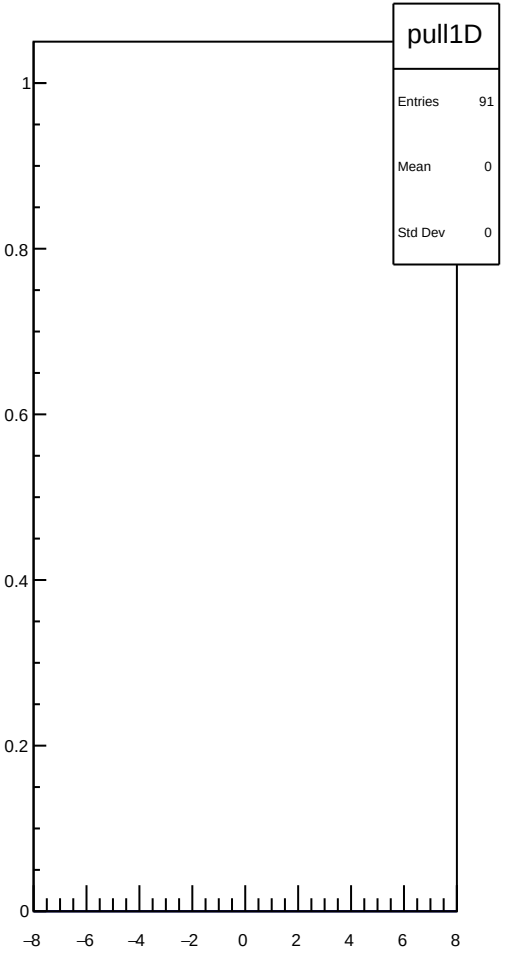

yield_bpm11X_rms vs run
χ² / ndf 1.353e+05 / 90
p0 0.04043 ± 3.176e–05
0.12
0.1
0.08
0.06
0.04
0.02

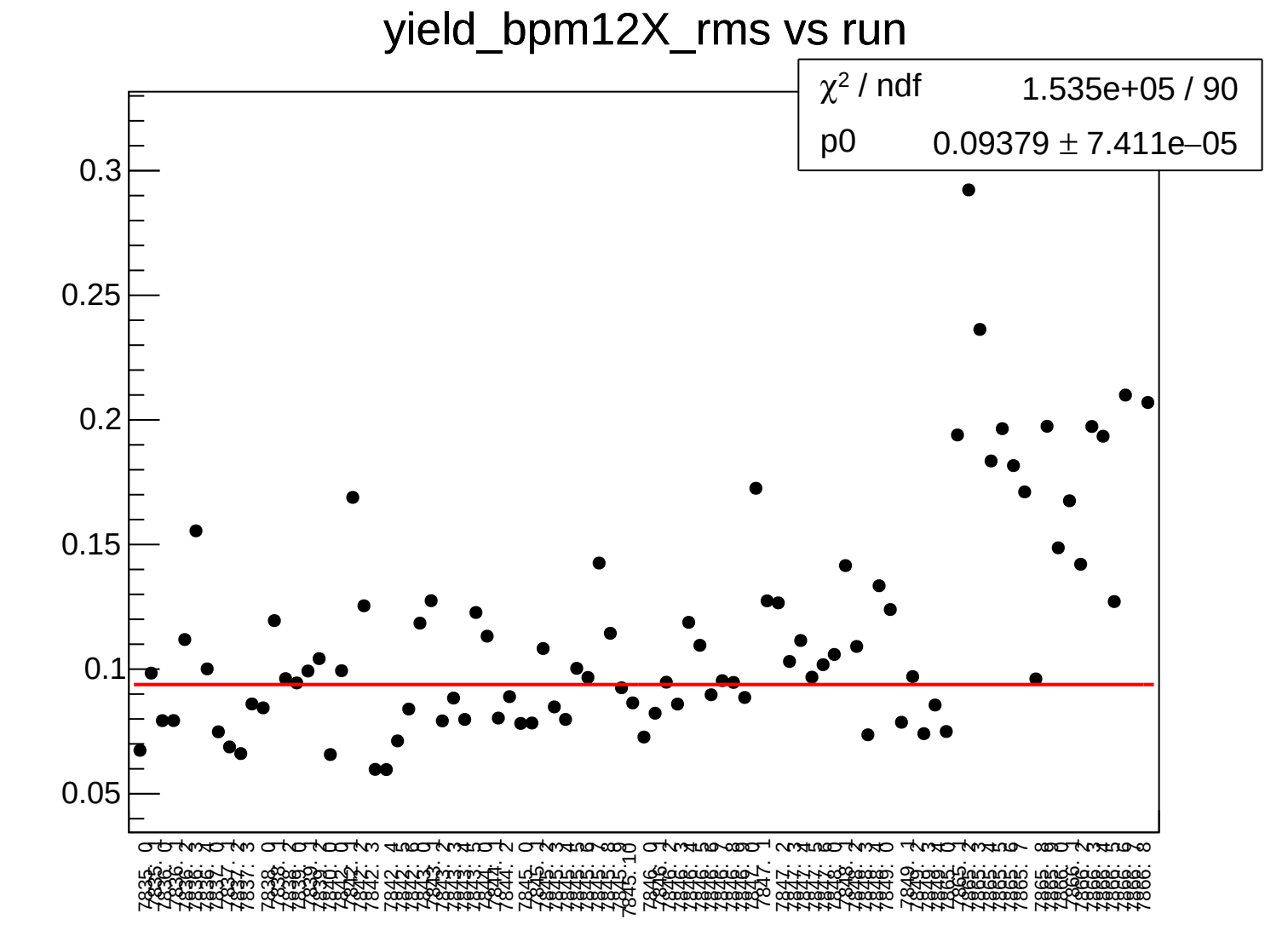

yield_bpm11Y_mean vs run
χ² / ndf 7.171e+08 / 90
p0 −0.6117 ± 1.399e−05
pull
Entries 91
Mean −4991
Std Dev 0

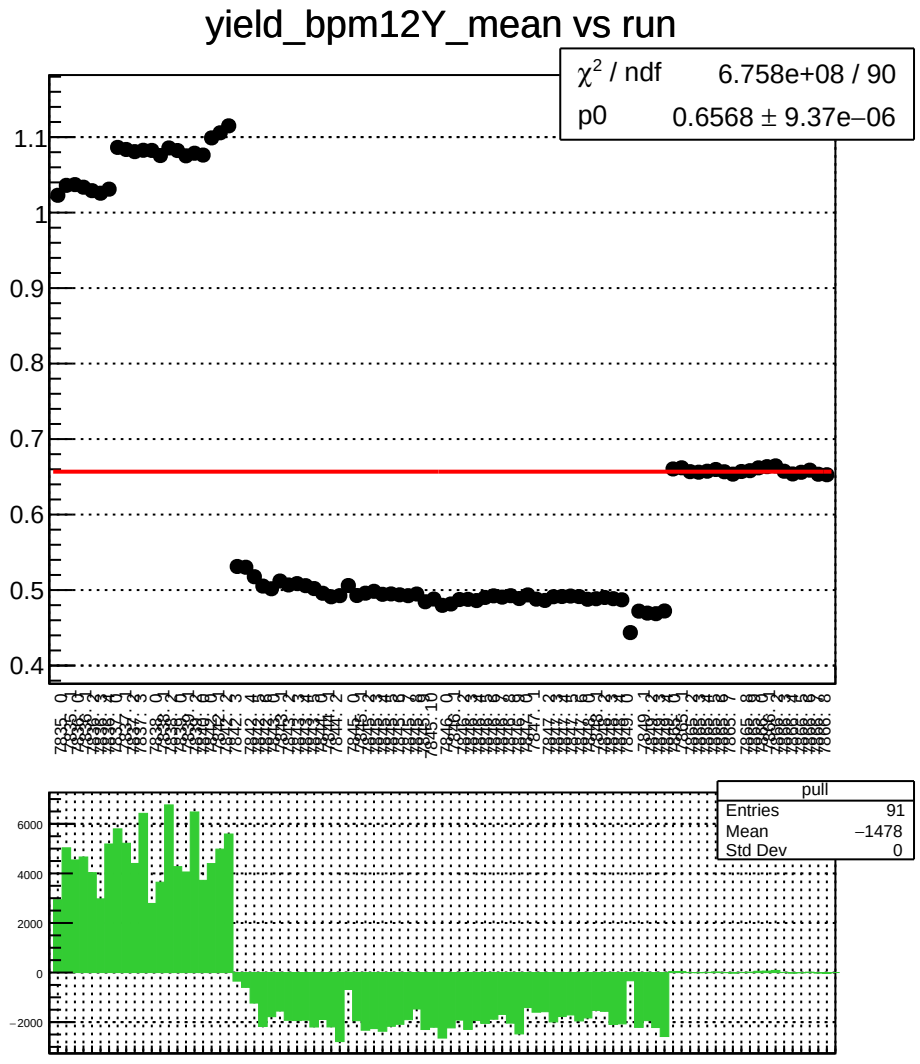

pull1D
Entries 91
Mean 0
Std Dev 0

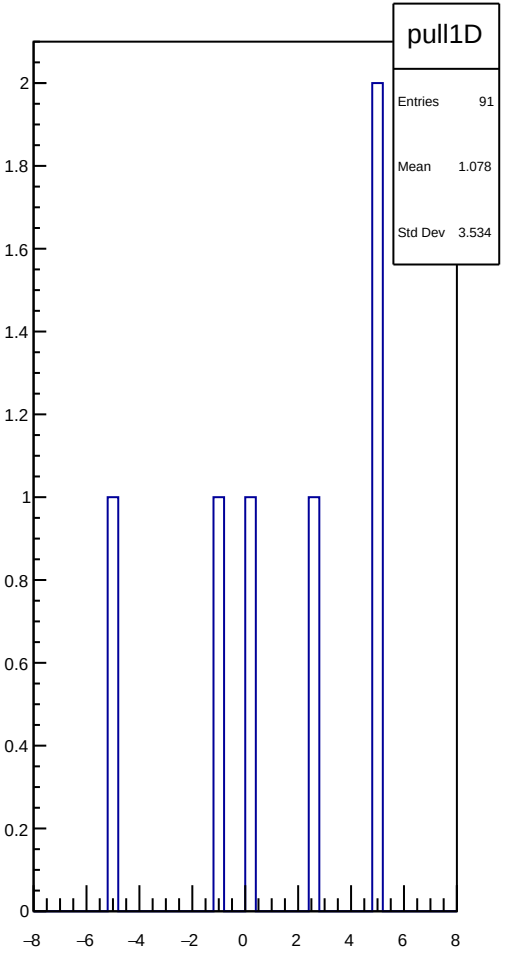

yield_bpm11Y_rms vs run
χ^2 / ndf 1.61e+05 / 90
p0 0.01249 ± 9.895e−06
0.1
0.08
0.06
0.04
0.02

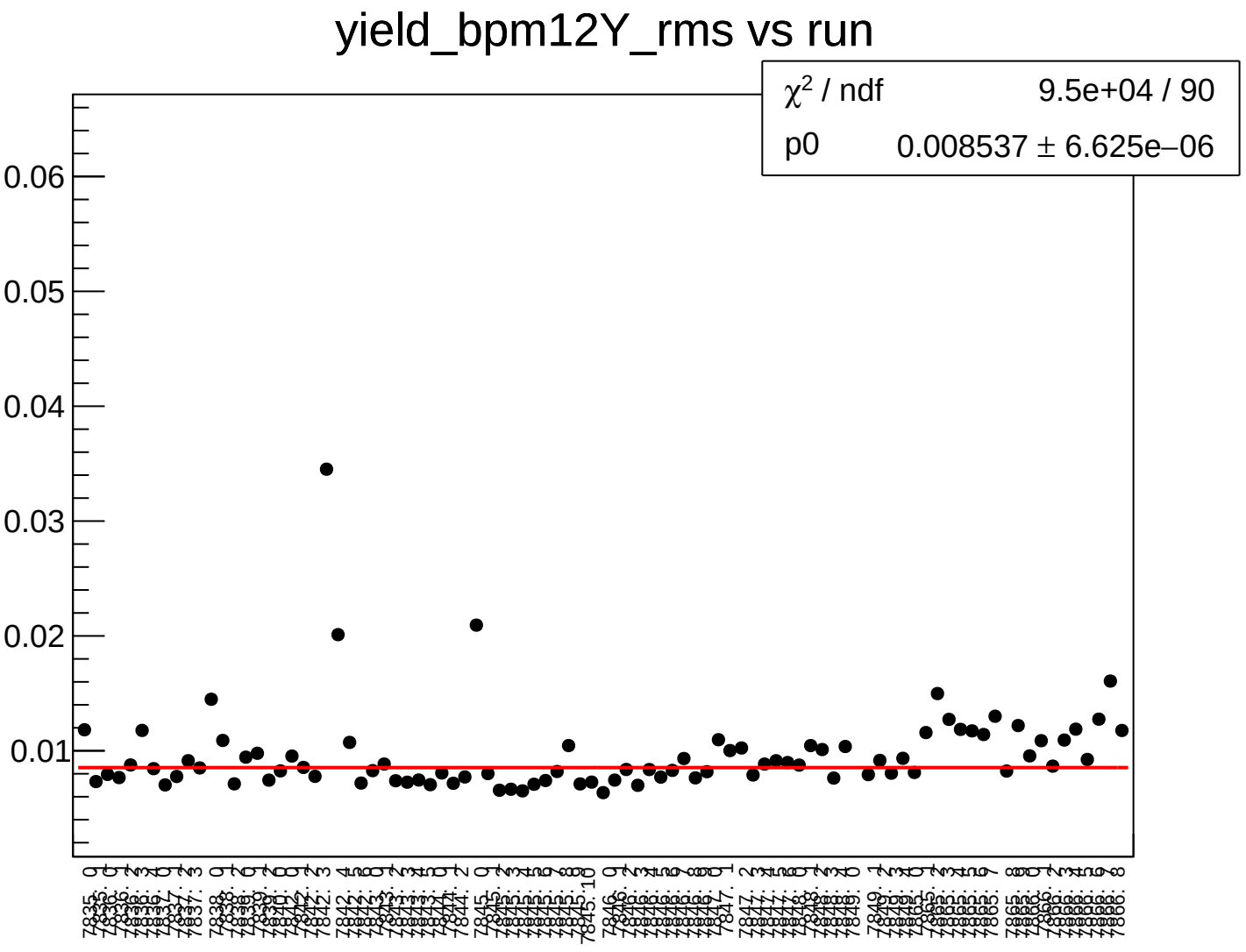

yield_bpm12X_mean vs run
χ² / ndf 3.425e+07 / 90
p0 −0.7062 ± 0.0001048
pull
Entries 91
Mean −2239
Std Dev 0

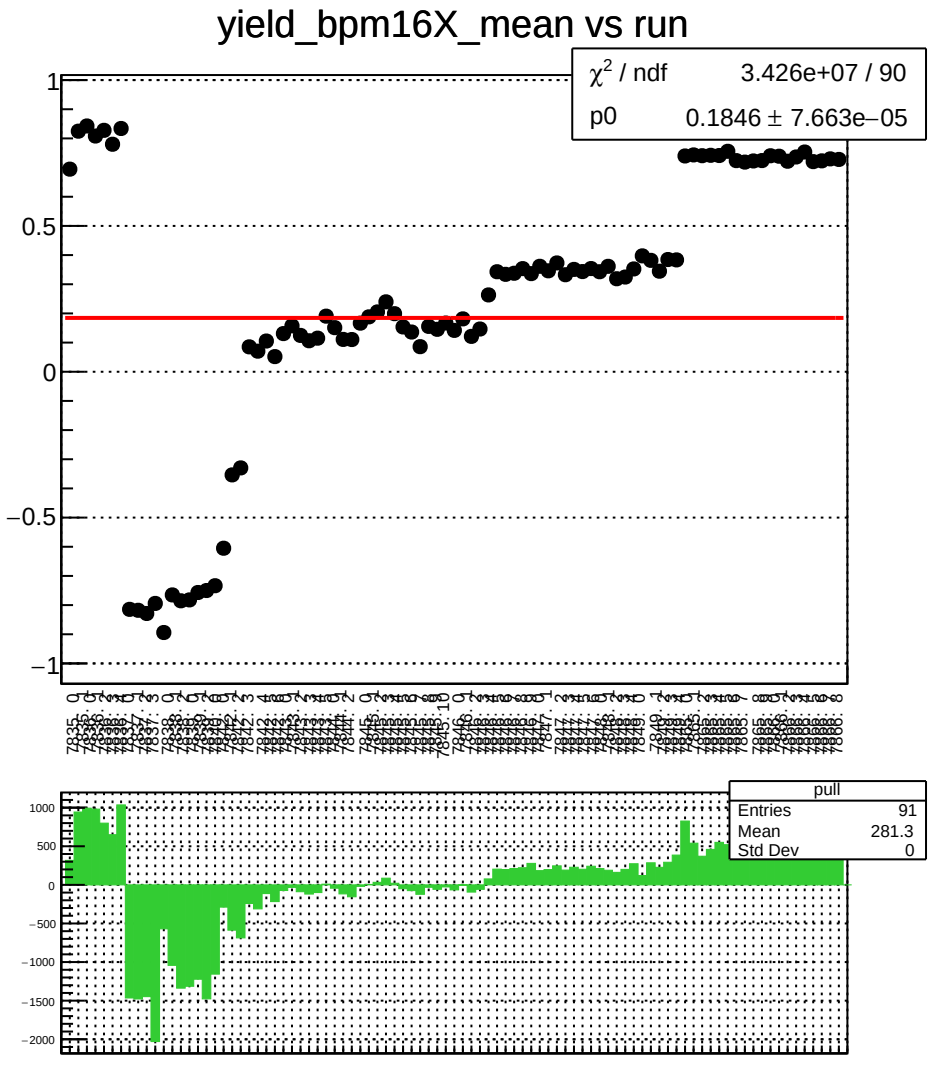

pull1D
Entries 91
Mean 0
Std Dev 0

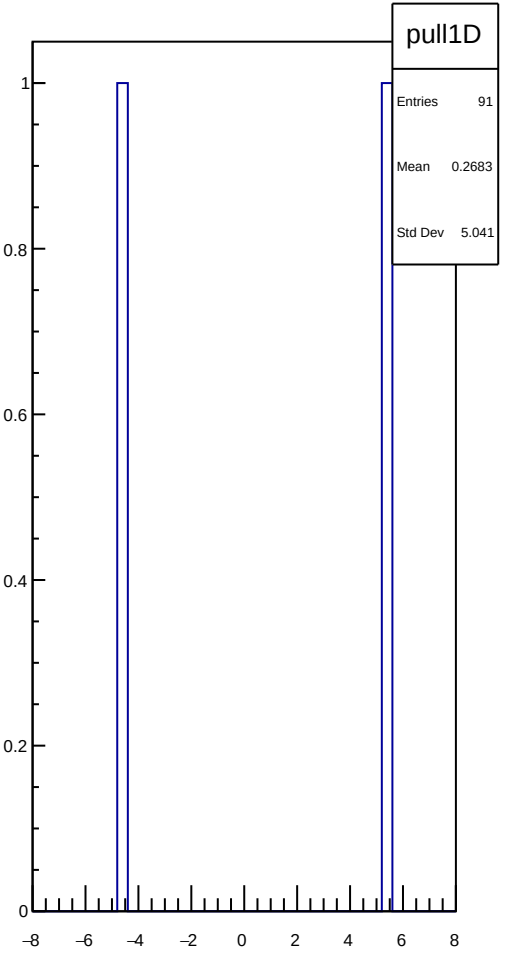

yield_bpm12X_rms vs run
χ² / ndf 1.535e+05 / 90
p0 0.09379 ± 7.411e−05
0.3
0.25
0.2
0.15
0.1
0.05

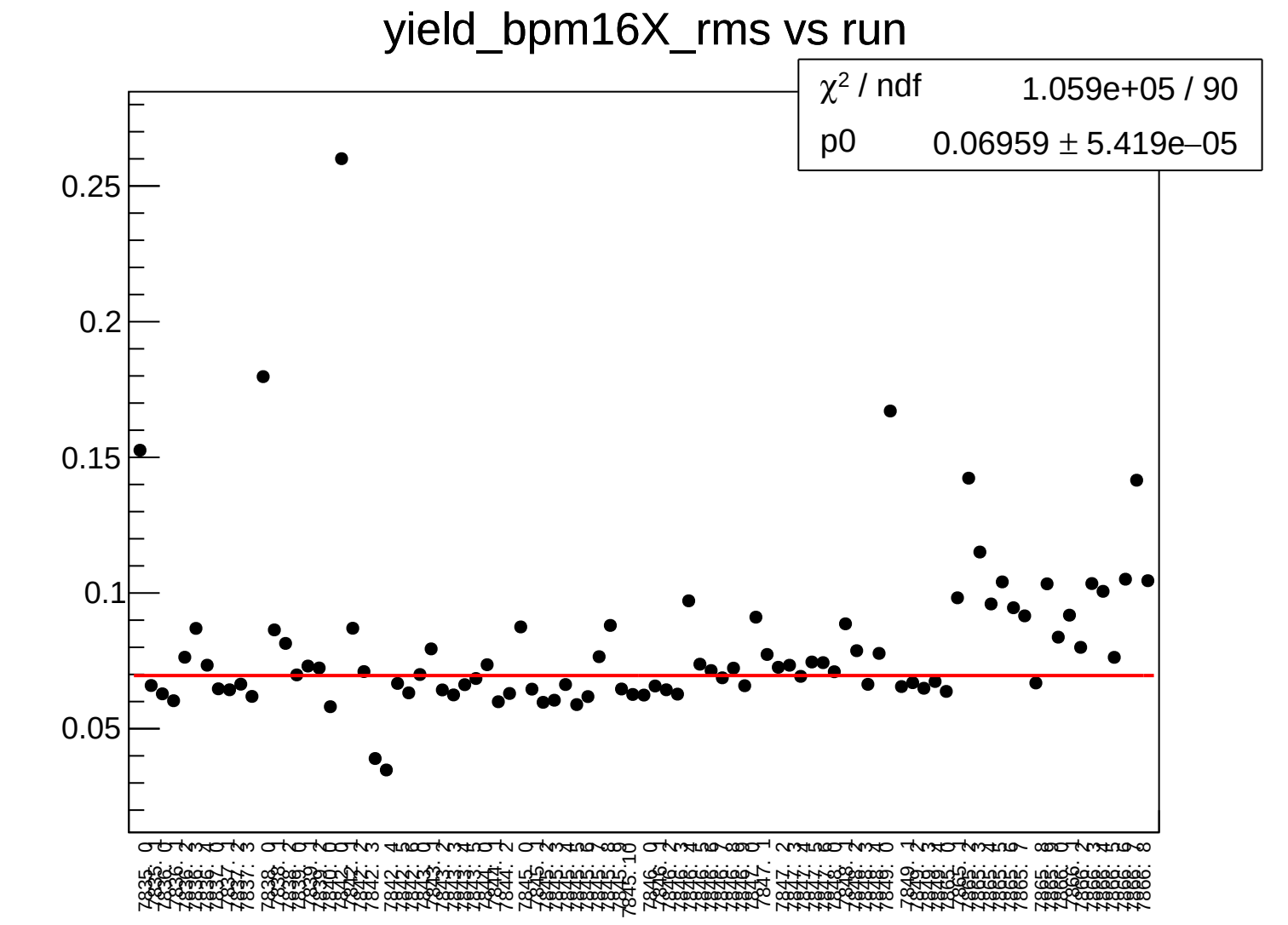

yield_bpm12Y_mean vs run
χ² / ndf 6.758e+08 / 90
p0 0.6568 ± 9.37e−06
pull
Entries 91
Mean −1478
Std Dev 0

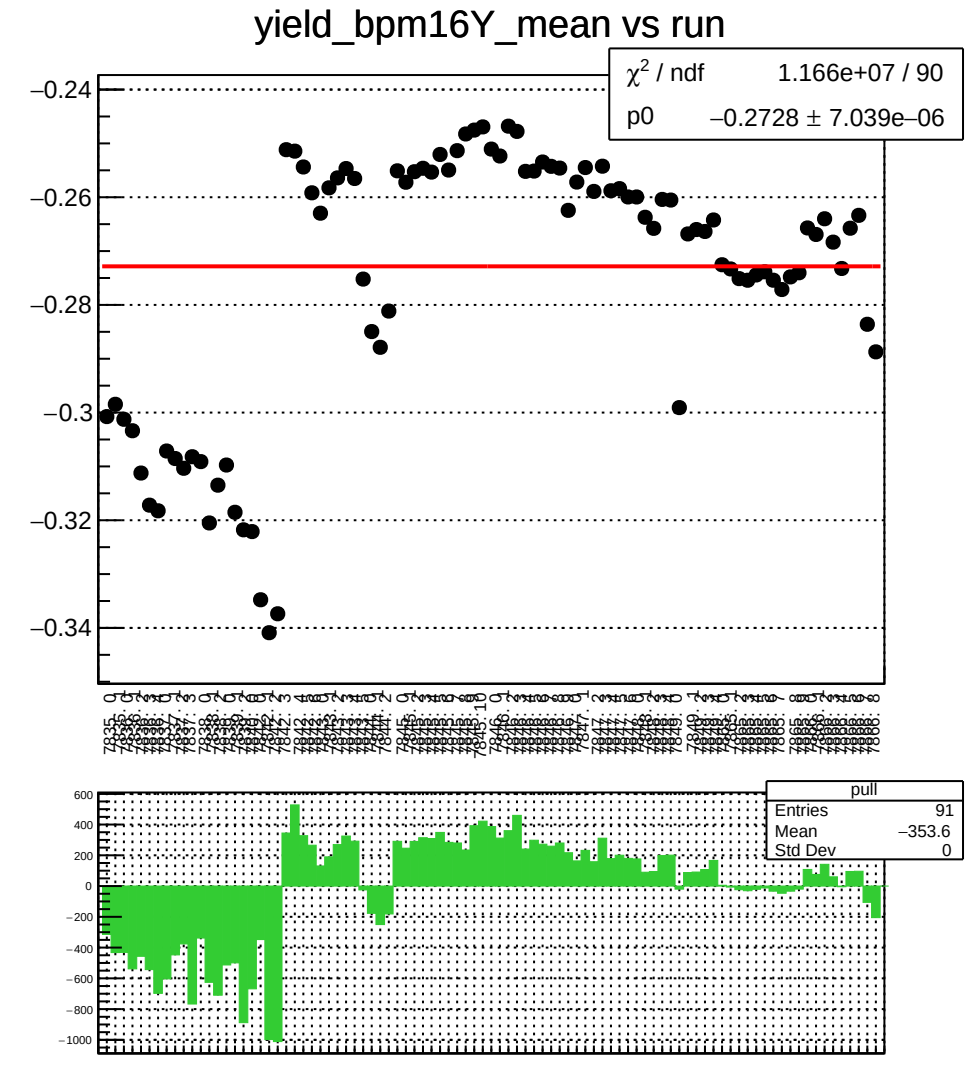

pull1D
Entries 91
Mean 1.078
Std Dev 3.534

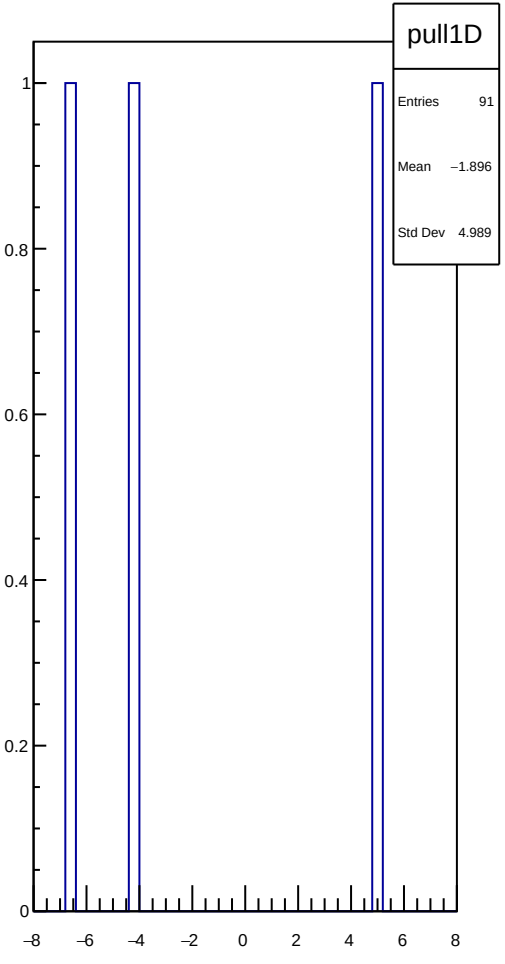

yield_bpm12Y_rms vs run
χ² / ndf 9.5e+04 / 90
p0 0.008537 ± 6.625e−06
0.06
0.05
0.04
0.03
0.02
0.01

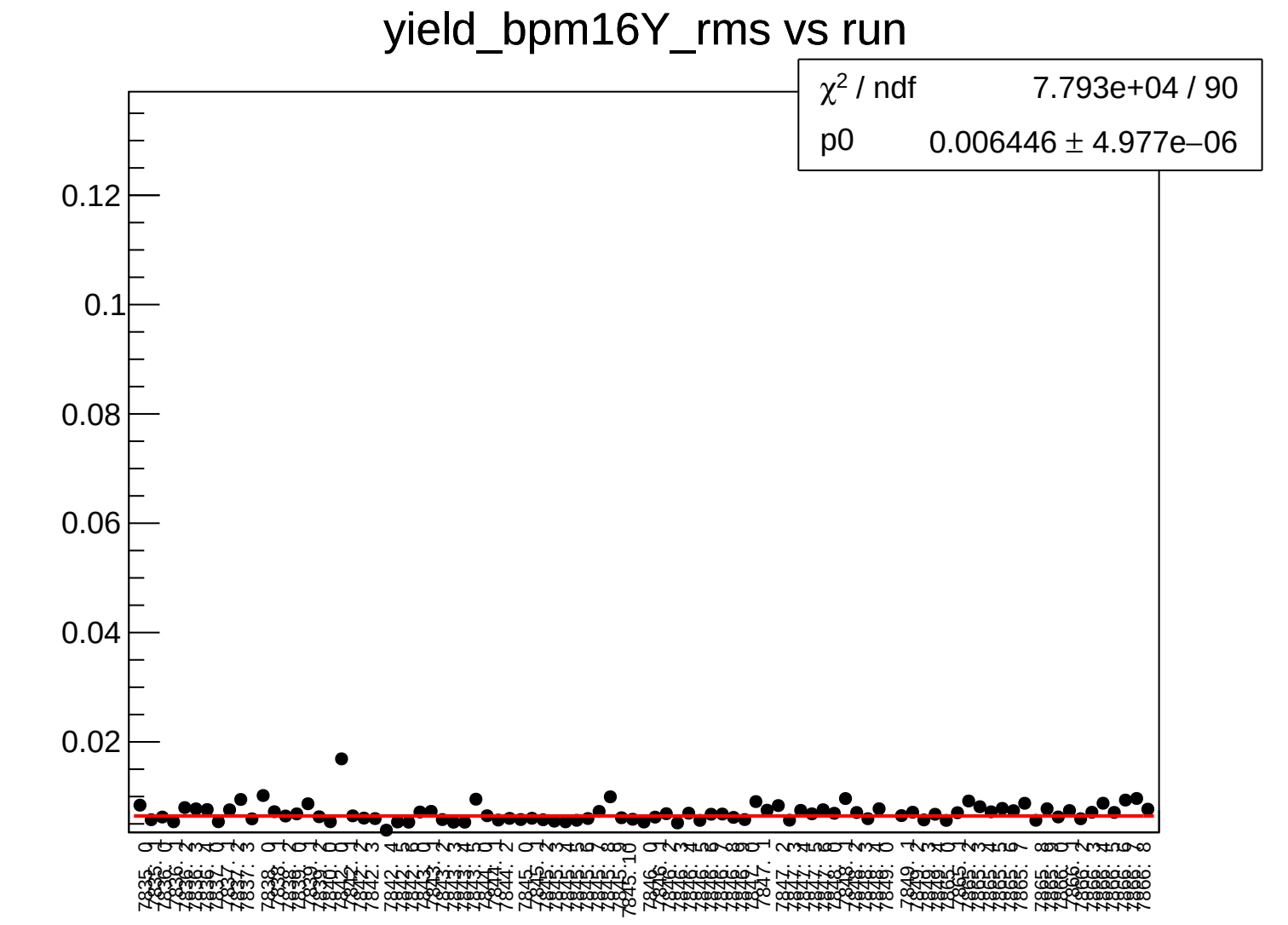

yield_bpm16X_mean vs run
χ² / ndf 3.426e+07 / 90
p0 0.1846 ± 7.663e−05
pull
Entries 91
Mean 281.3
Std Dev 0

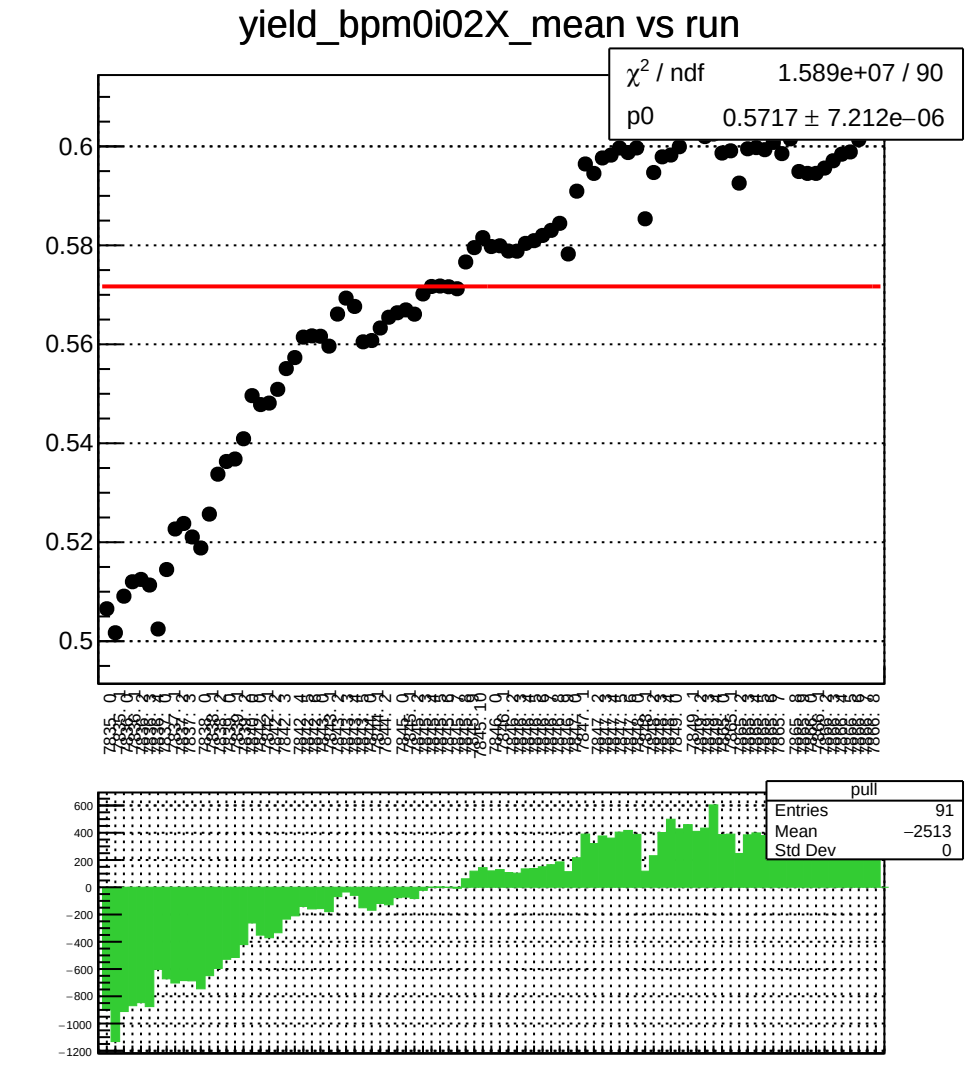

pull1D
Entries 91
Mean 0.2683
Std Dev 5.041

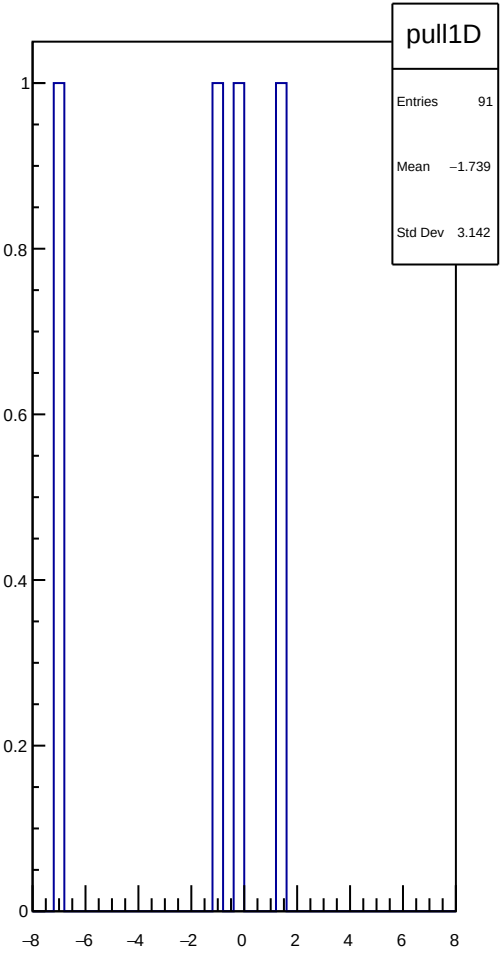

yield_bpm16X_rms vs run
χ² / ndf 1.059e+05 / 90
p0 0.06959 ± 5.419e–05
0.25
0.2
0.15
0.1
0.05

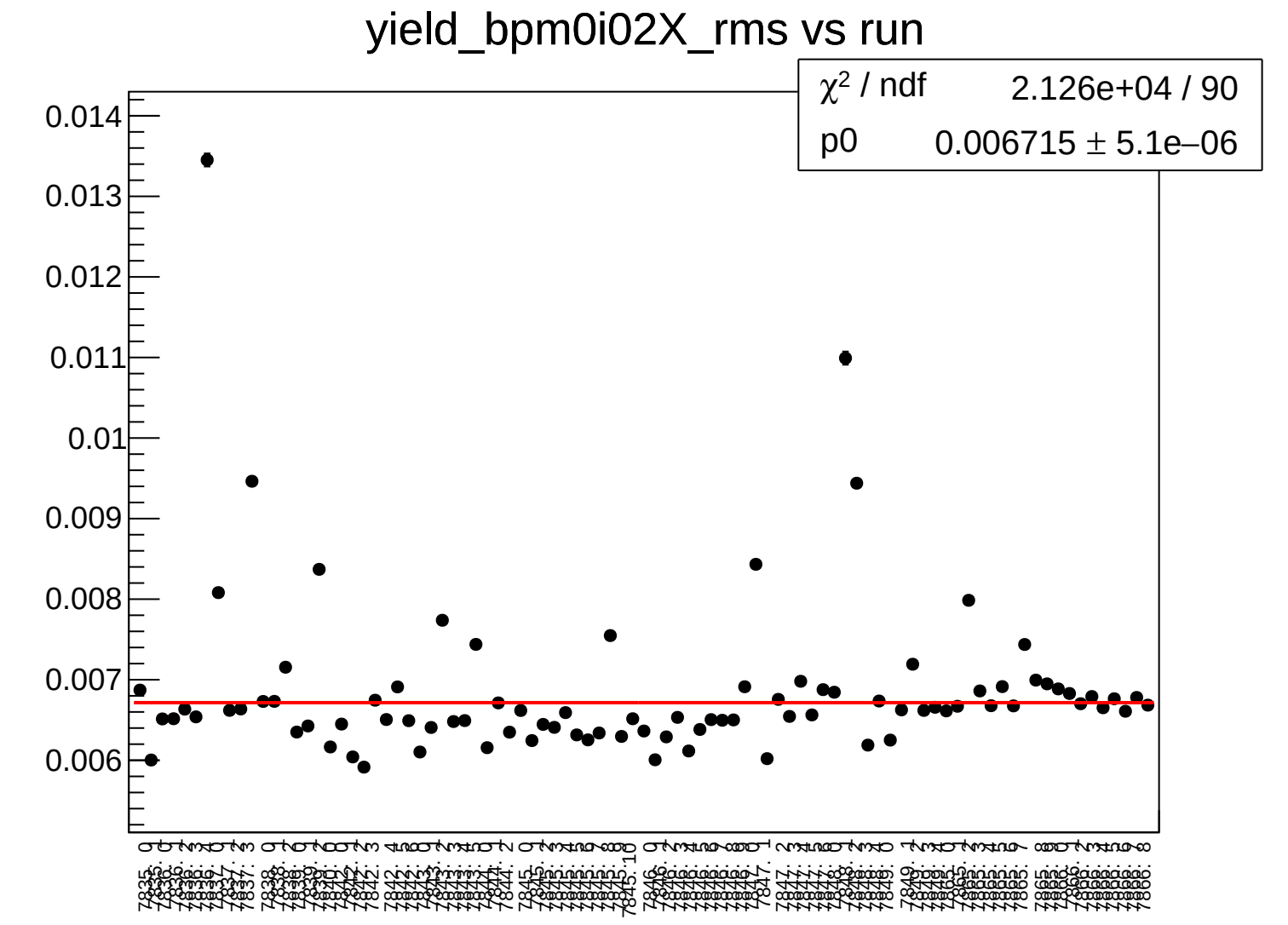

yield_bpm16Y_mean vs run
χ² / ndf 1.166e+07 / 90
p0 −0.2728 ± 7.039e−06
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 91
Mean −353.6
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

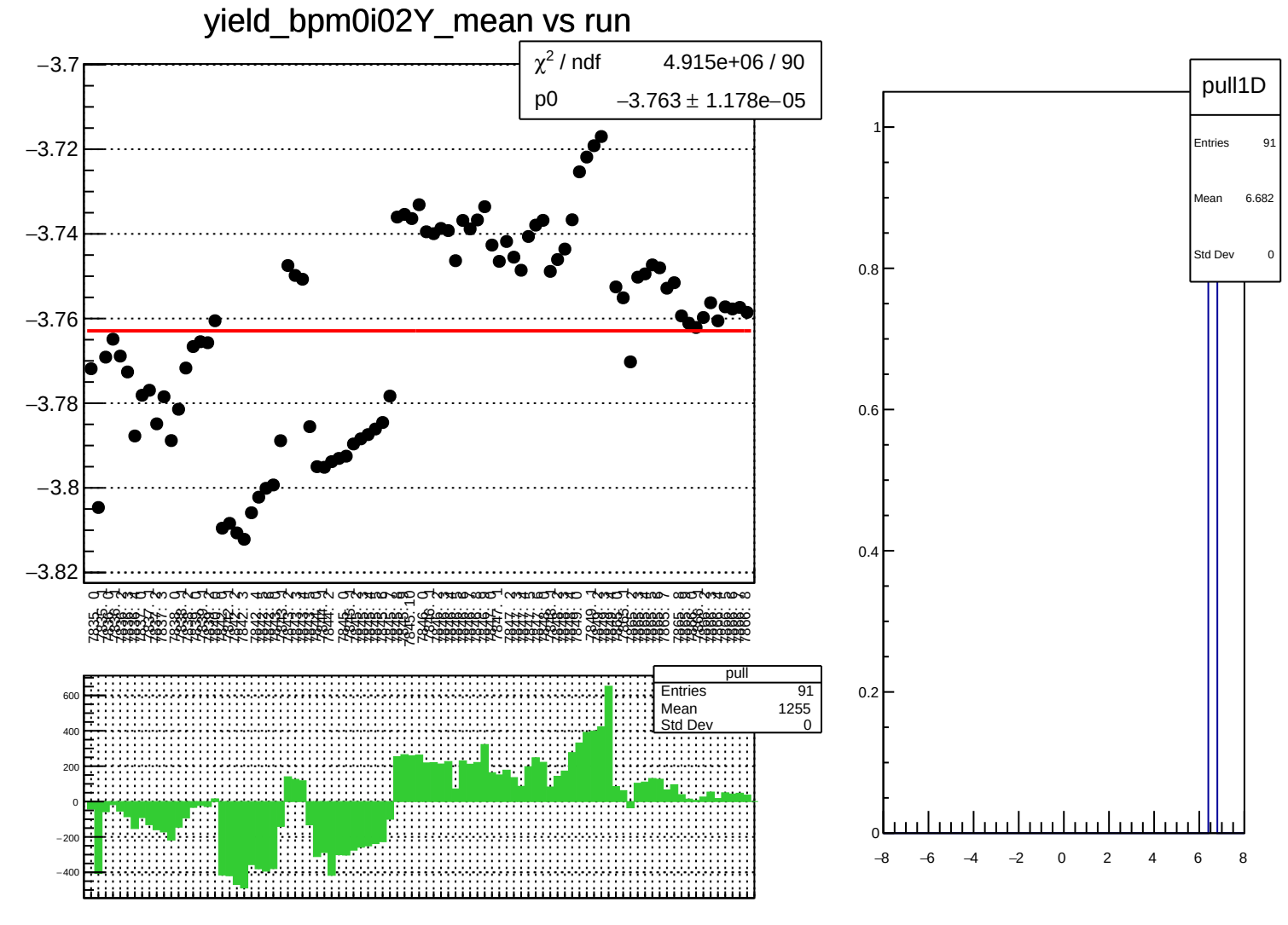

pull1D
Entries 91
Mean −1.896
Std Dev 4.989
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

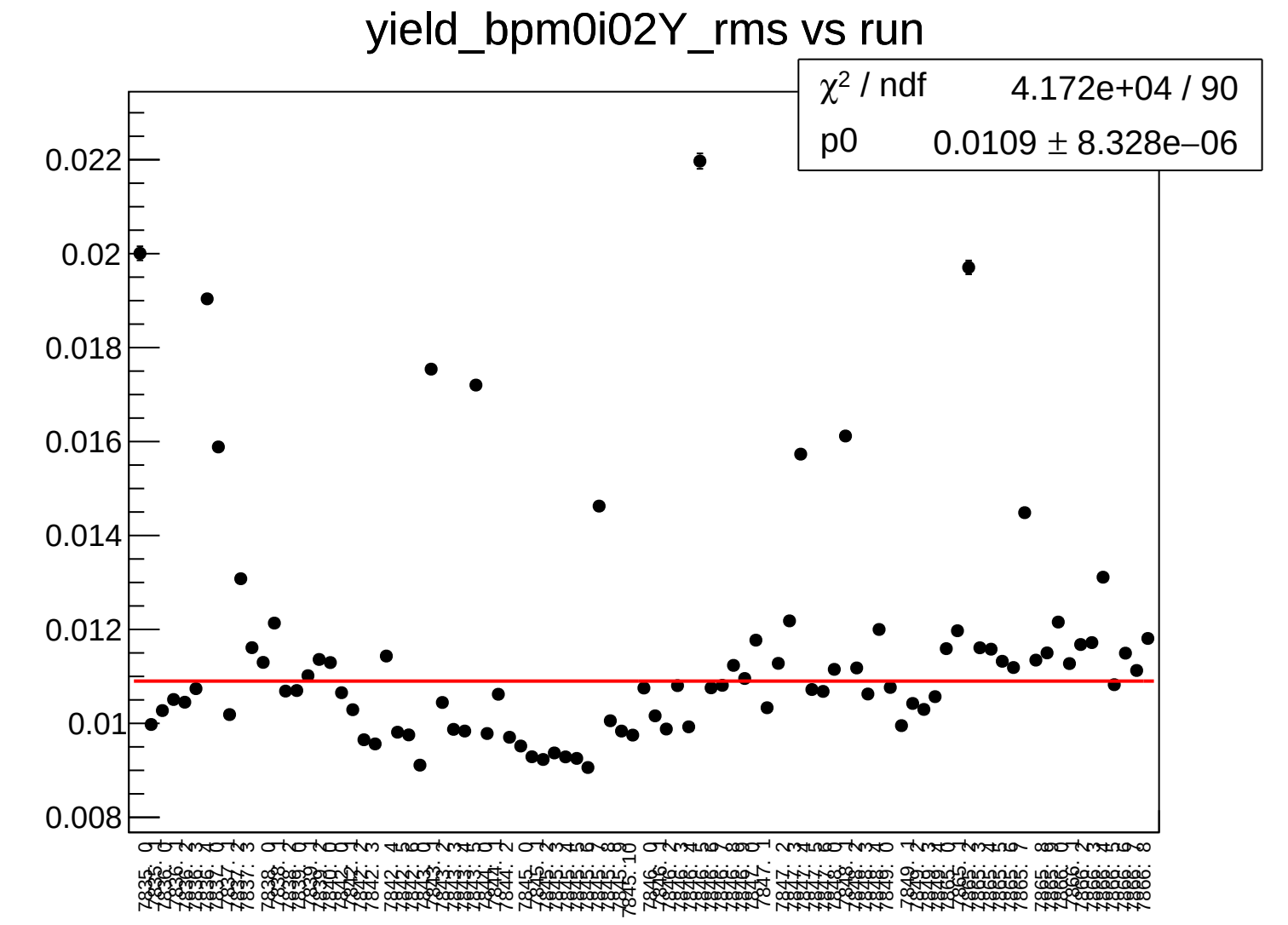

yield_bpm16Y_rms vs run
χ² / ndf 7.793e+04 / 90
p0 0.006446 ± 4.977e−06
0.12
0.1
0.08
0.06
0.04
0.02

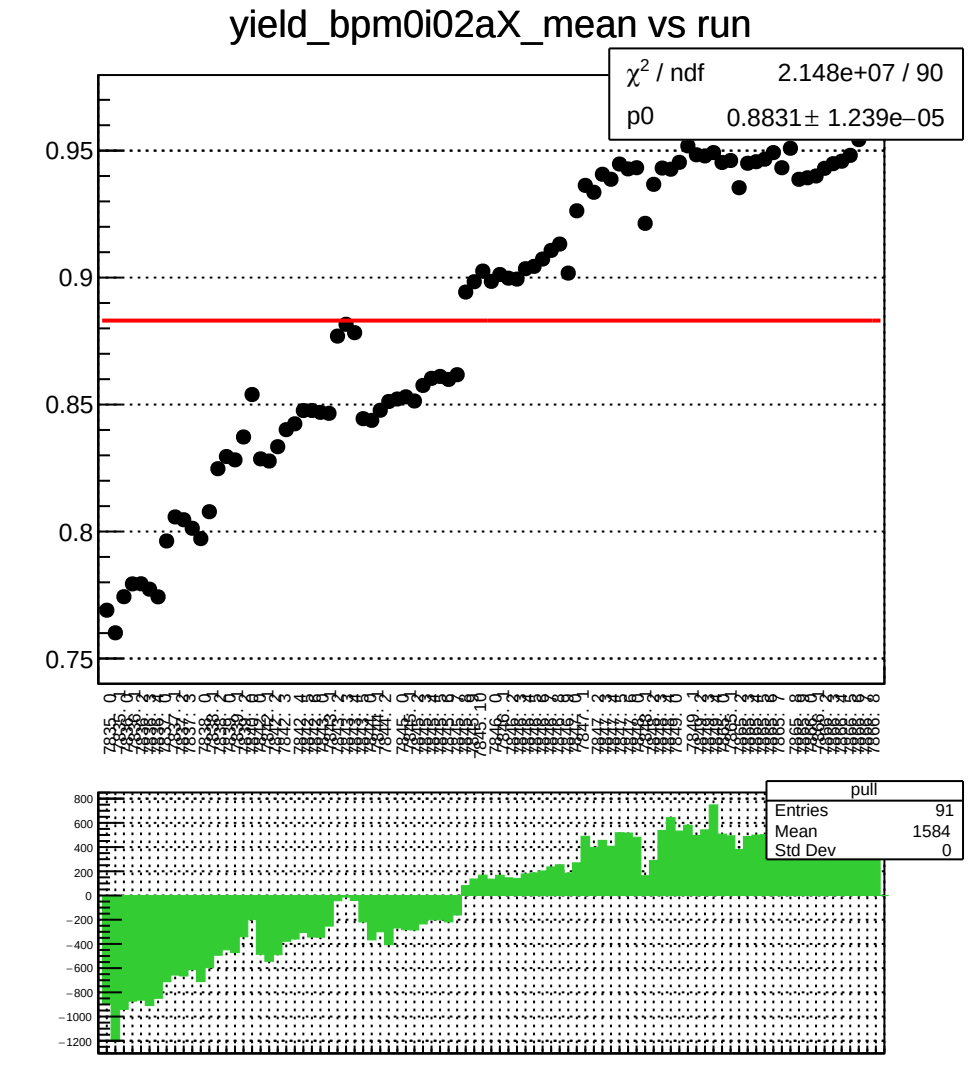

yield_bpm0i02X_mean vs run
χ² / ndf 1.589e+07 / 90
p0 0.5717 ± 7.212e−06
0.6
0.58
0.56
0.54
0.52
0.5
pull
Entries 91
Mean −2513
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

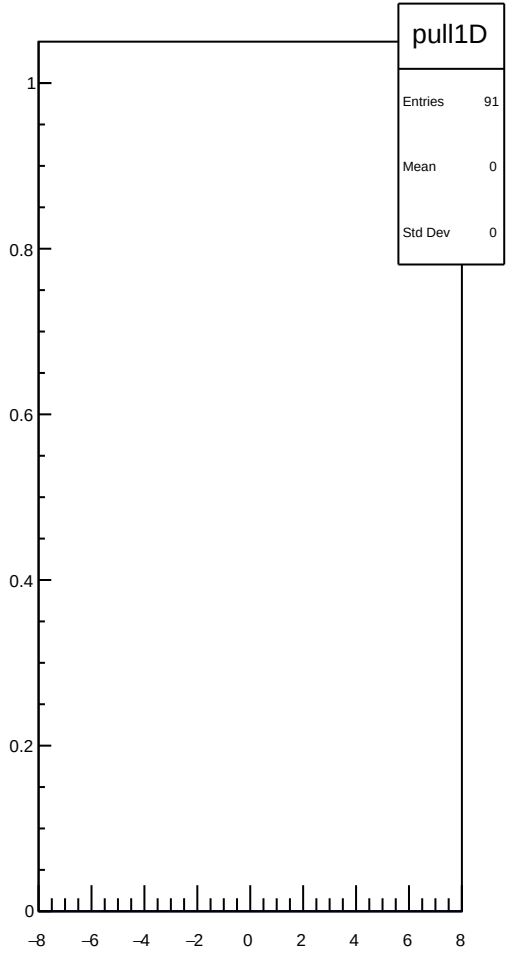

pull1D
Entries 91
Mean −1.739
Std Dev 3.142
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

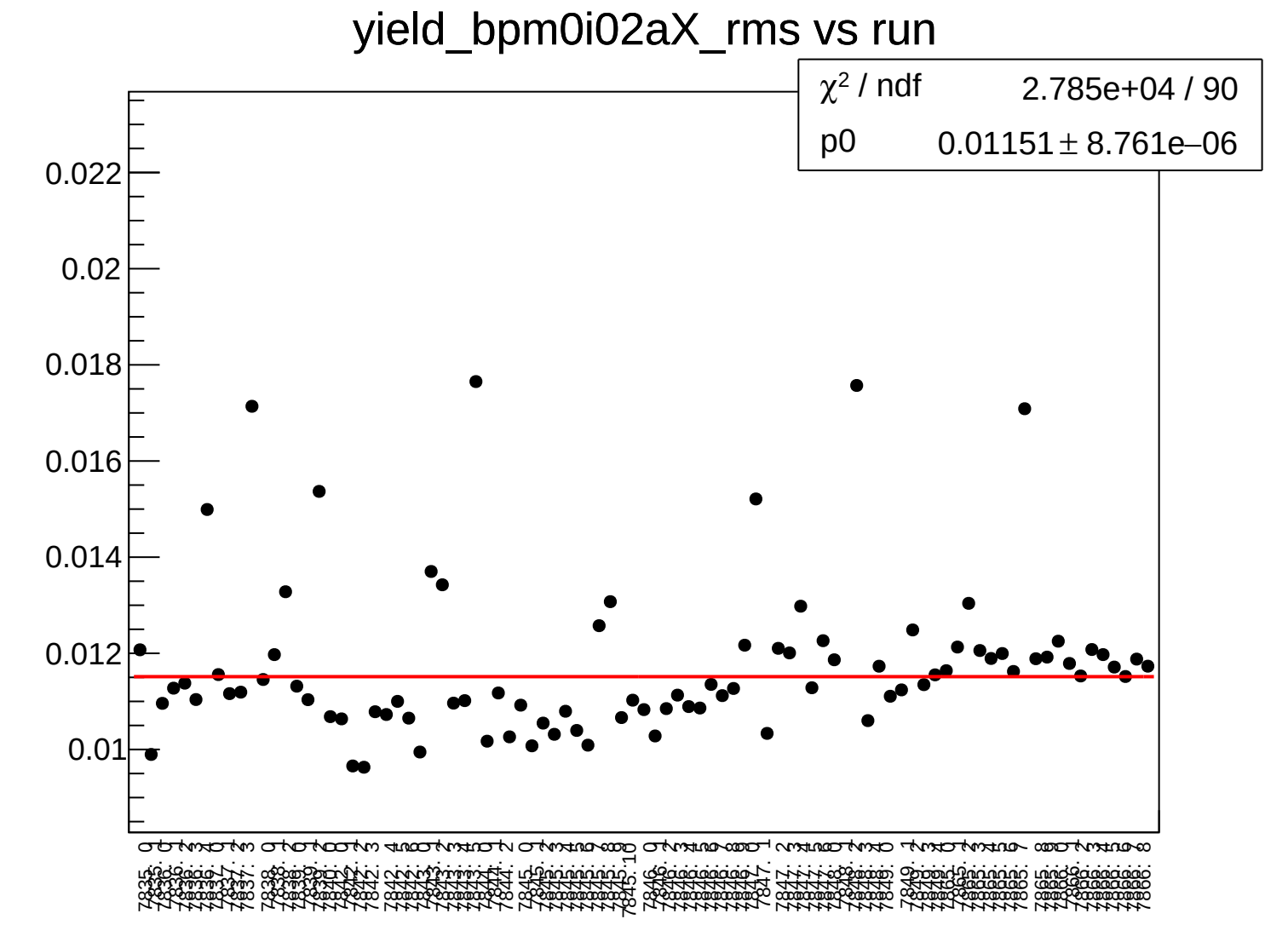

yield_bpm0i02X_rms vs run
χ² / ndf 2.126e+04 / 90
p0 0.006715 ± 5.1e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

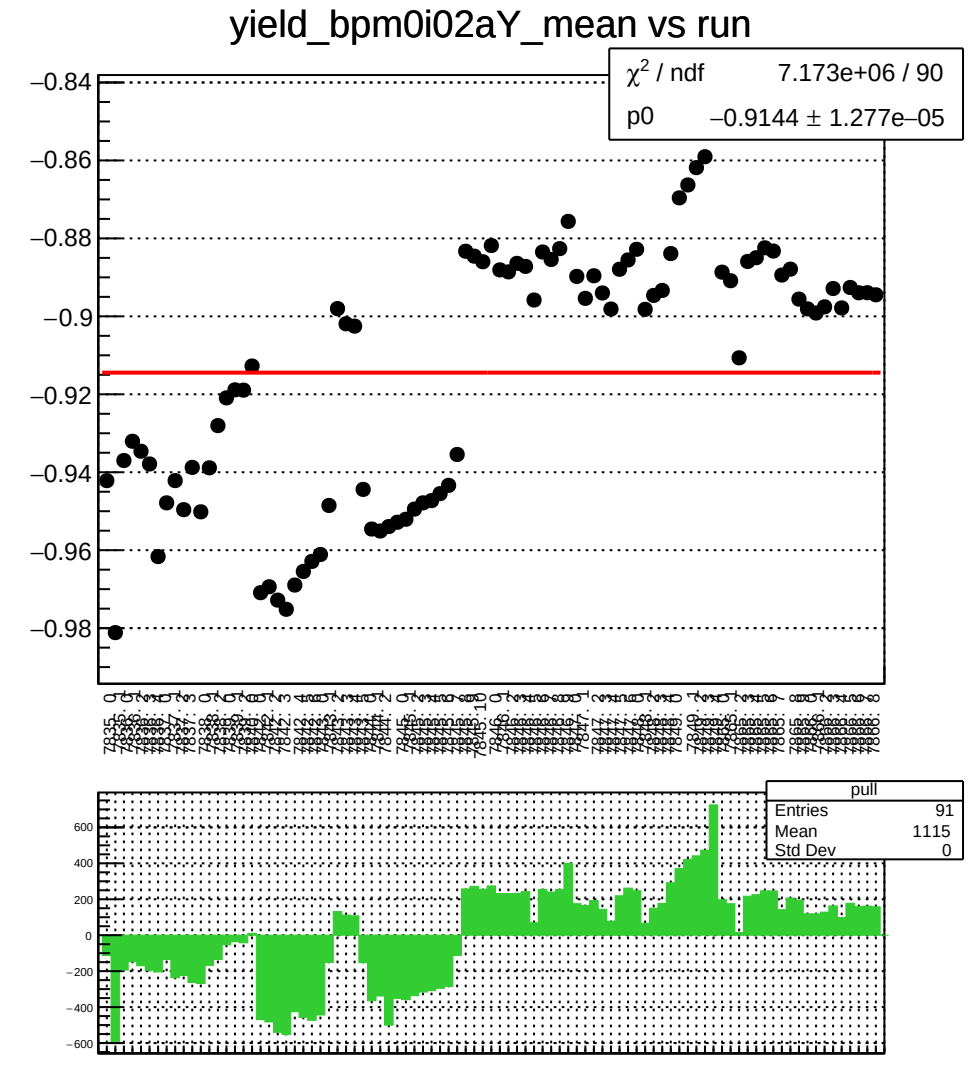

yield_bpm0i02Y_mean vs run
χ² / ndf 4.915e+06 / 90
p0 −3.763 ± 1.178e−05
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
−3.82
pull
Entries 91
Mean 1255
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 91
Mean 6.682
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

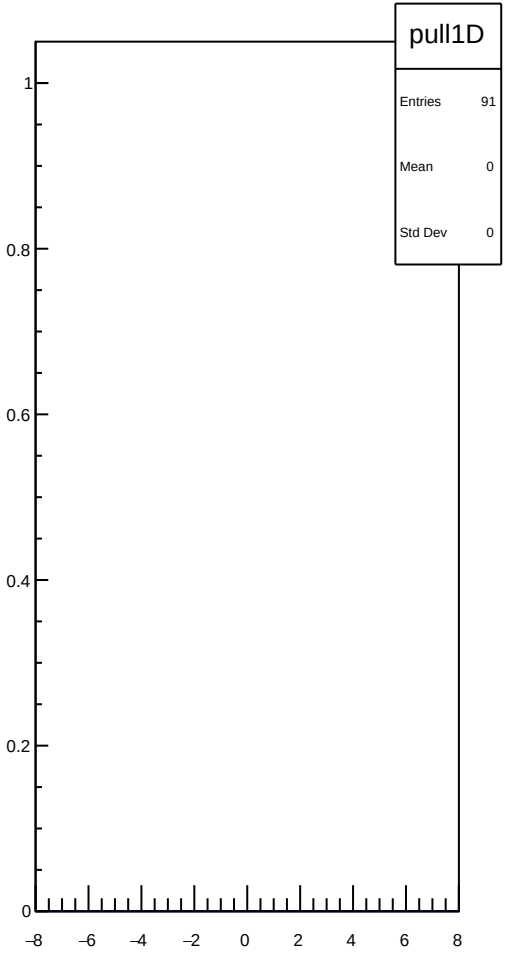

yield_bpm0i02Y_rms vs run
χ² / ndf 4.172e+04 / 90
p0 0.0109 ± 8.328e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

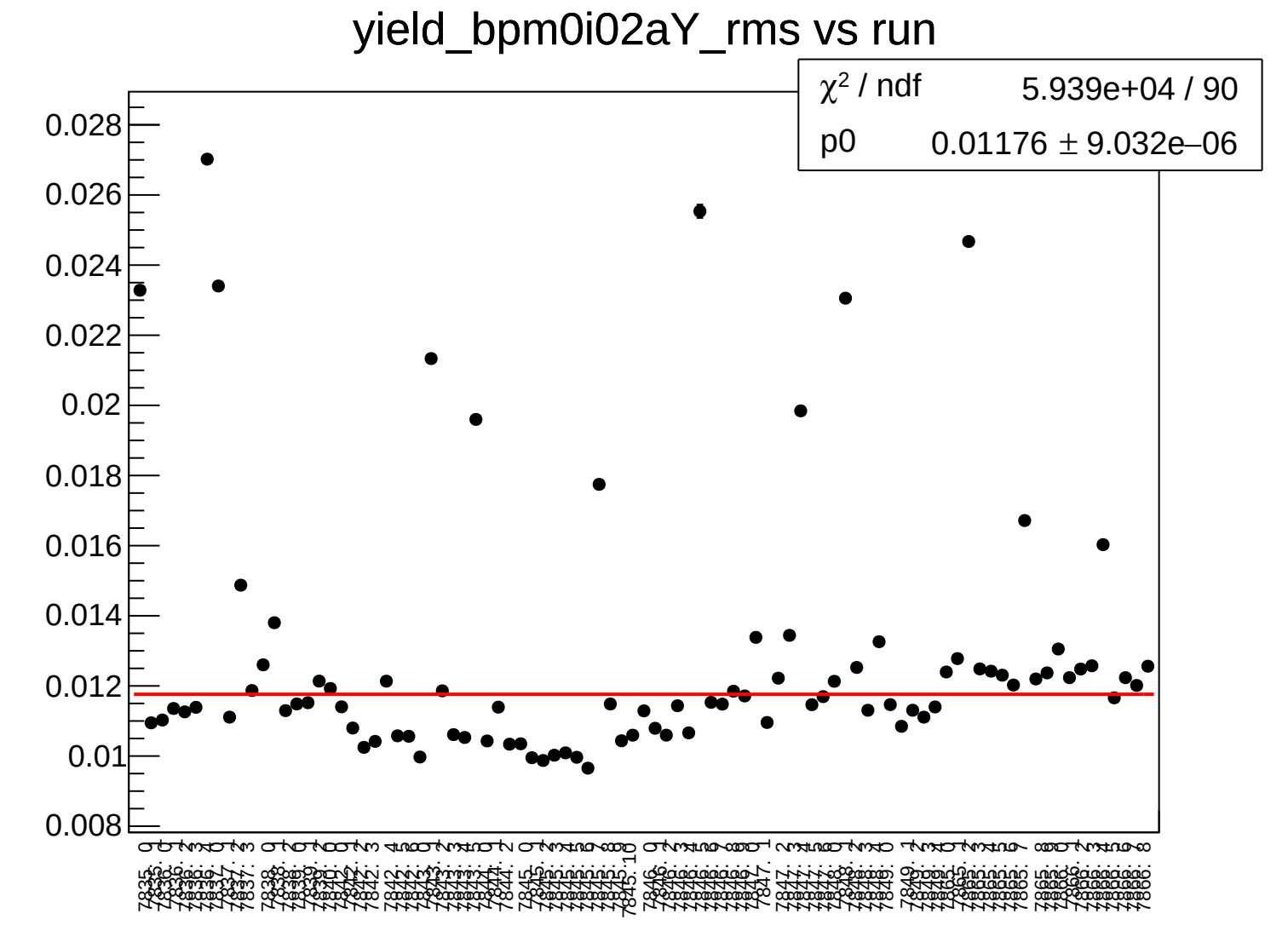

yield_bpm0i02aX_mean vs run
χ² / ndf 2.148e+07 / 90
p0 0.8831 ± 1.239e−05
0.95
0.9
0.85
0.8
0.75
pull
Entries 91
Mean 1584
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

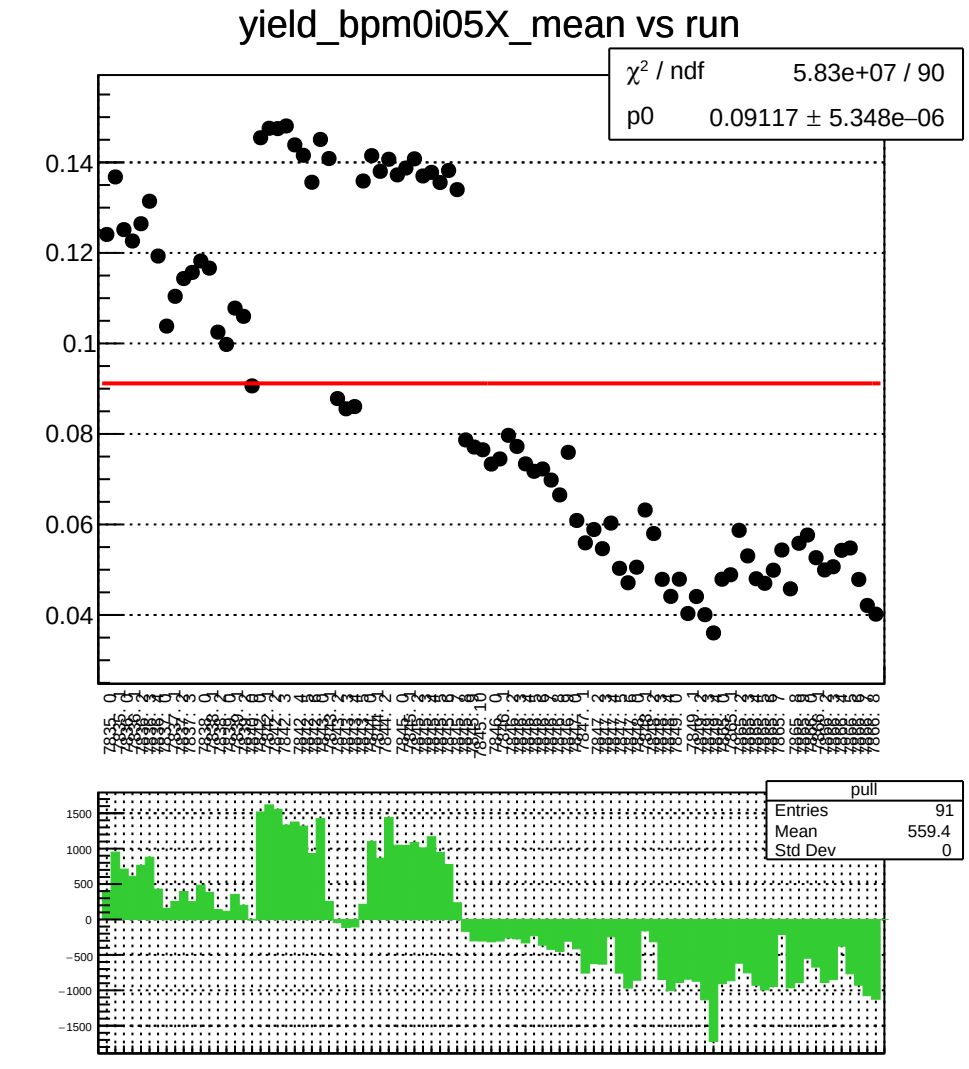

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

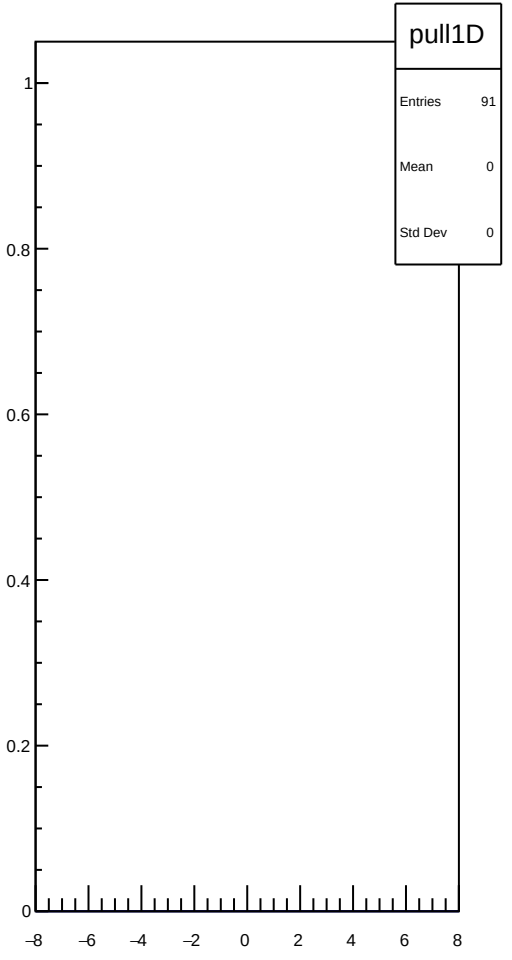

yield_bpm0i02aX_rms vs run
χ² / ndf 2.785e+04 / 90
p0 0.01151 ± 8.761e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

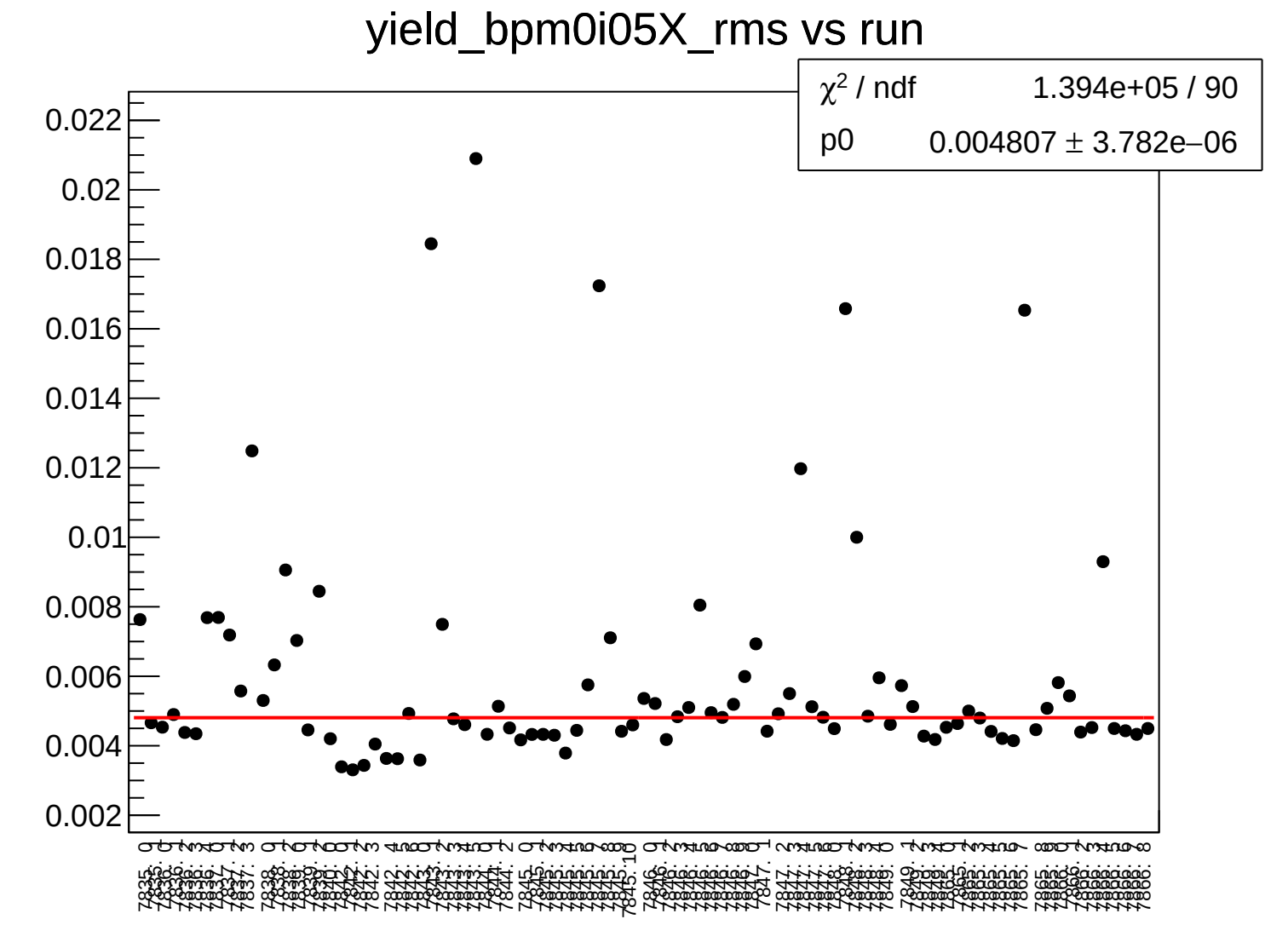

yield_bpm0i02aY_mean vs run
χ² / ndf 7.173e+06 / 90
p0 −0.9144 ± 1.277e−05
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
pull
Entries 91
Mean 1115
Std Dev 0
600
400
200
0
−200
−400
−600

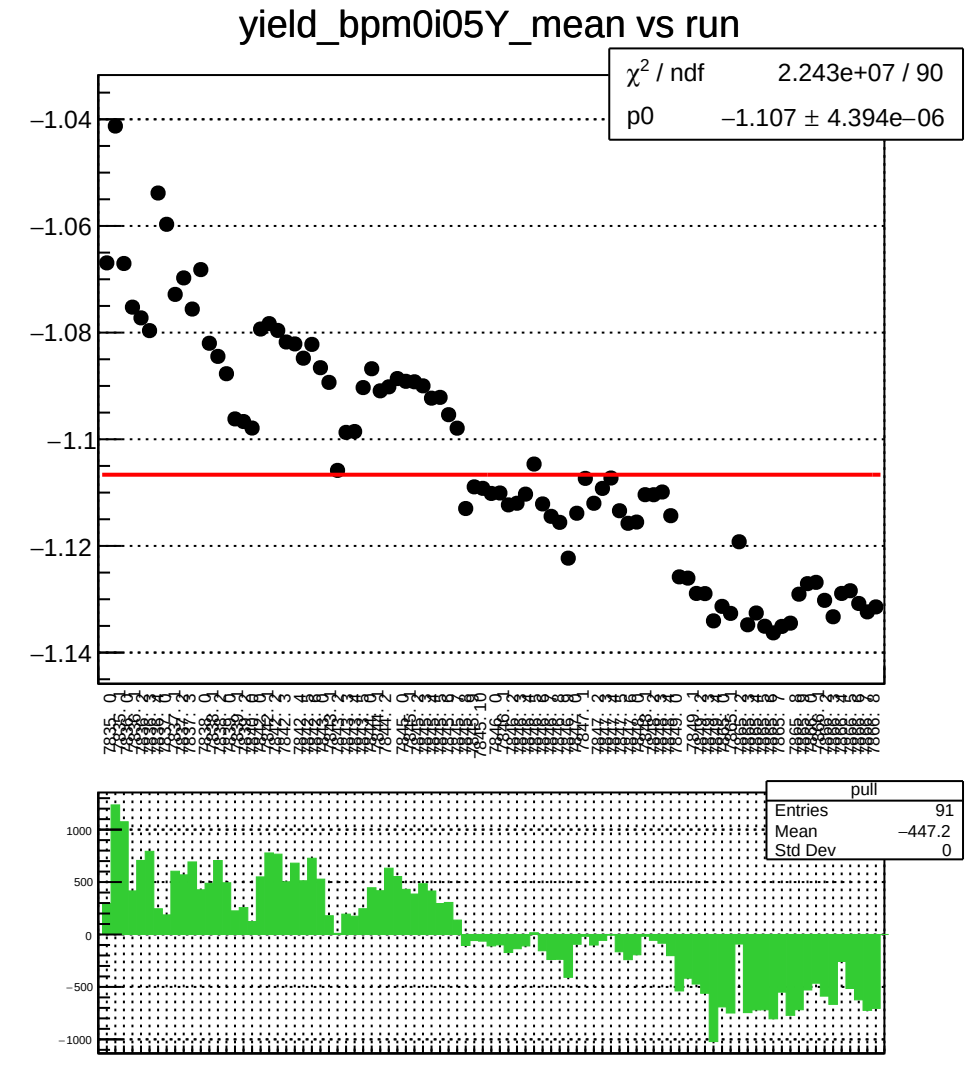

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

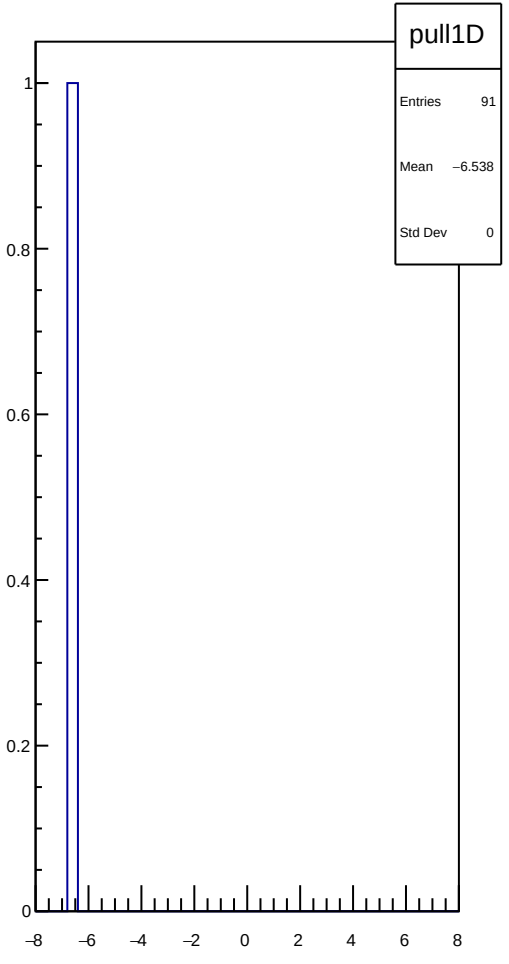

yield_bpm0i02aY_rms vs run
χ² / ndf 5.939e+04 / 90
p0 0.01176 ± 9.032e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008


yield_bpm0i05X_mean vs run
χ² / ndf 5.83e+07 / 90
p0 0.09117 ± 5.348e−06
0.14
0.12
0.1
0.08
0.06
0.04
pull
Entries 91
Mean 559.4
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

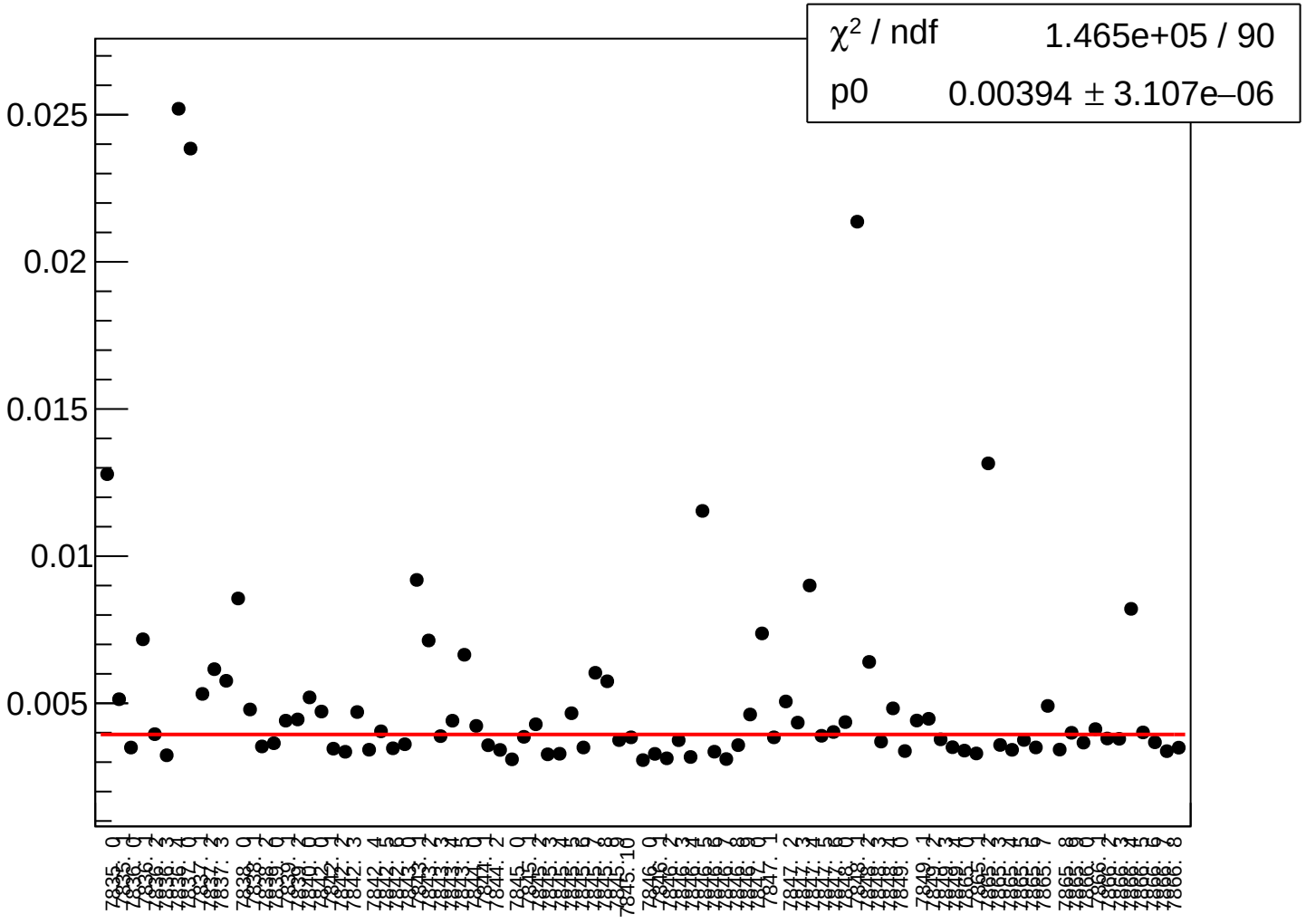

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

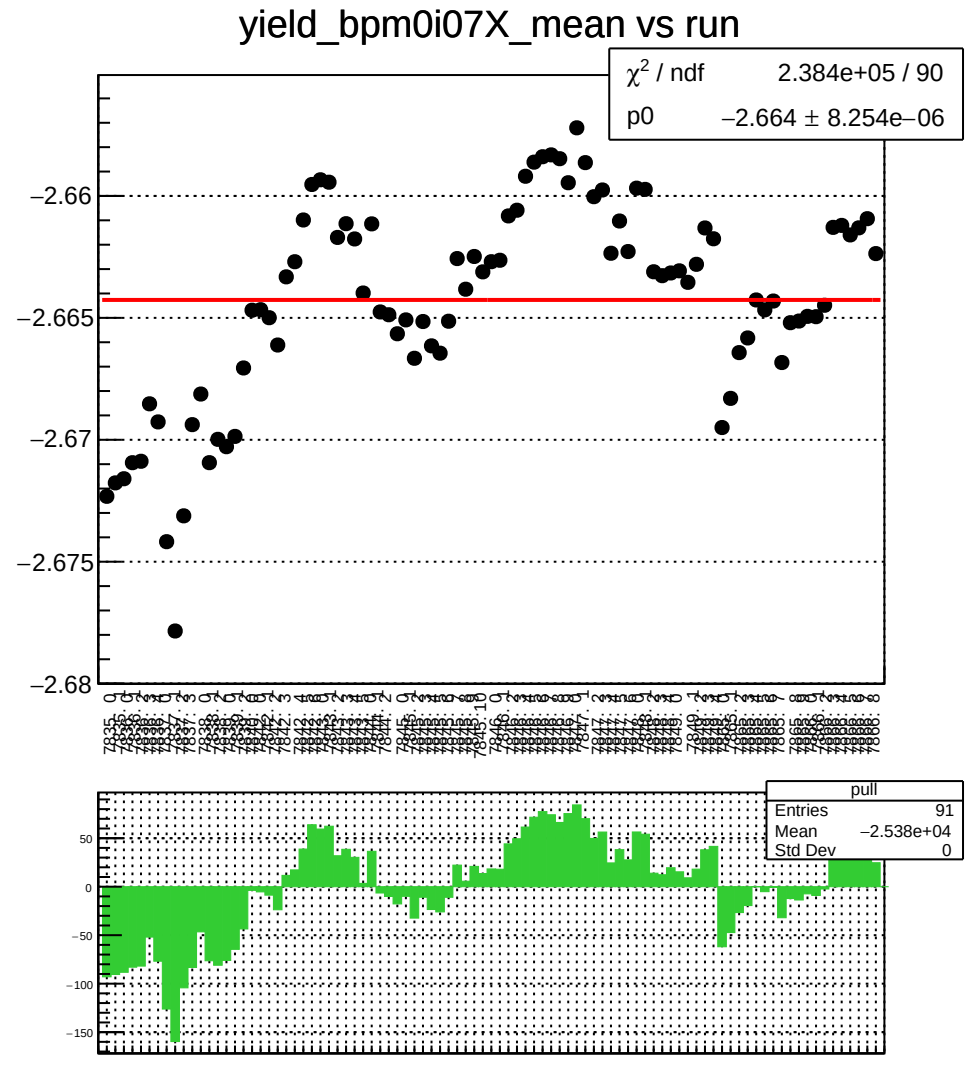

yield_bpm0i05X_rms vs run
χ² / ndf 1.394e+05 / 90
p0 0.004807 ± 3.782e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

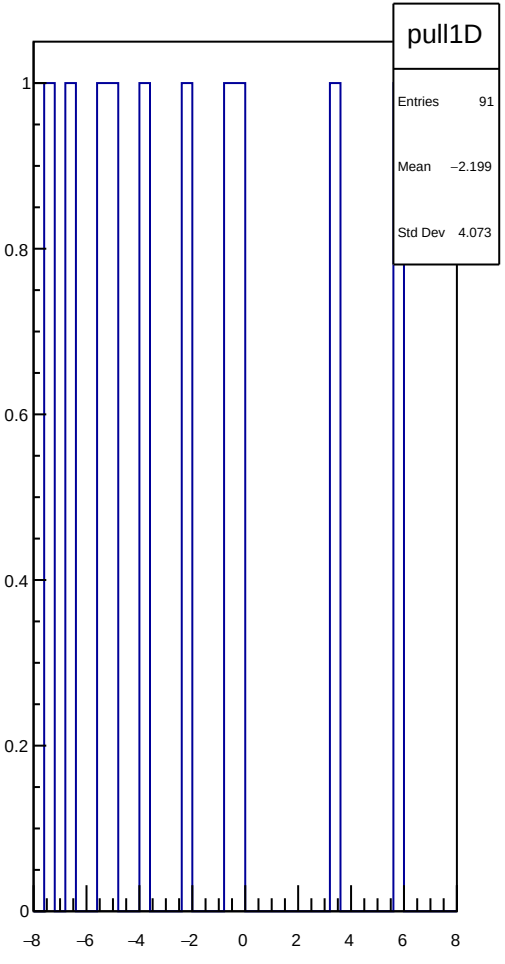

yield_bpm0i05Y_mean vs run
χ² / ndf 2.243e+07 / 90
p0 −1.107 ± 4.394e−06
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 91
Mean −447.2
Std Dev 0
1000
500
0
−500
−1000

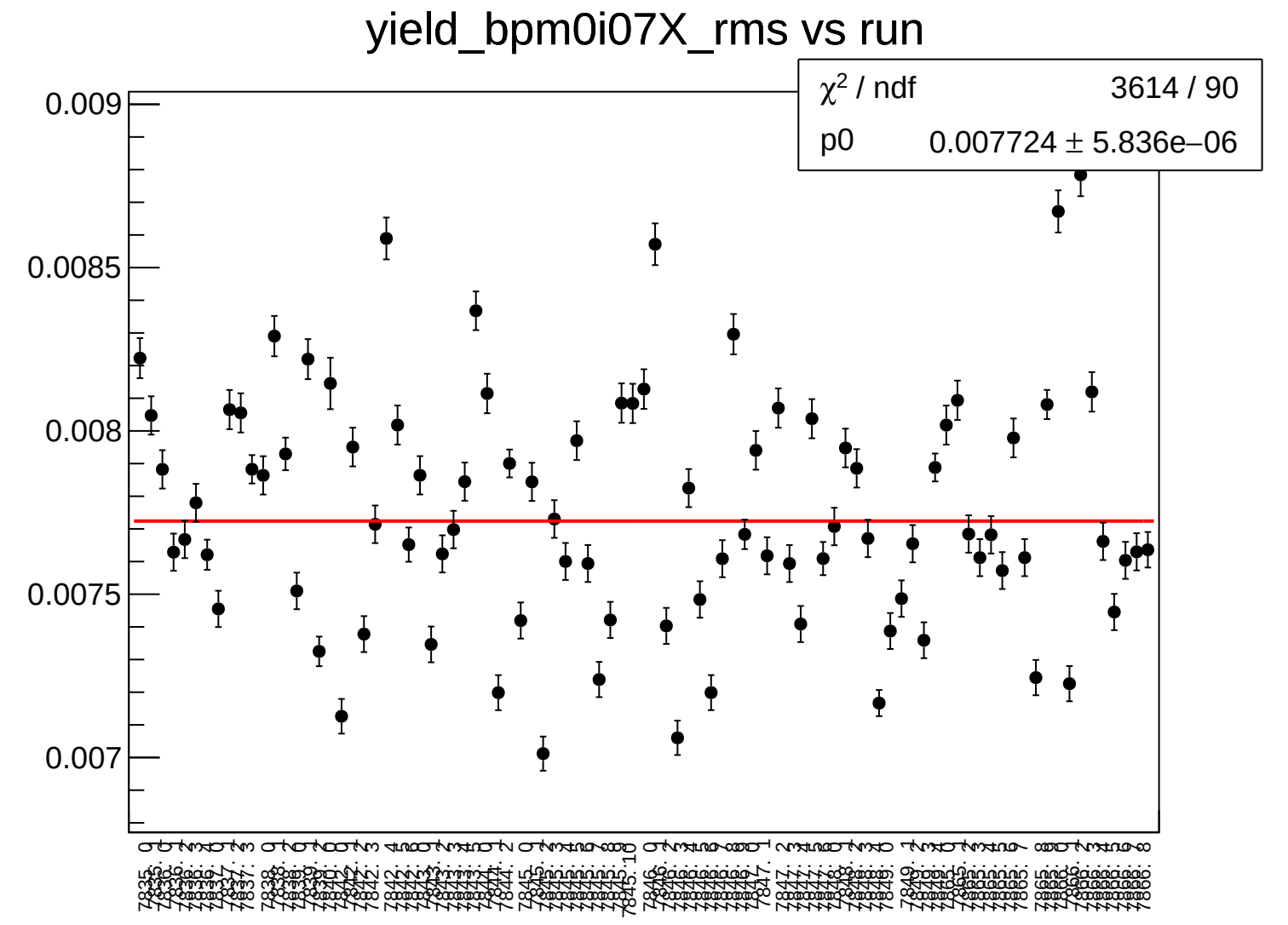

pull1D
Entries 91
Mean −6.538
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

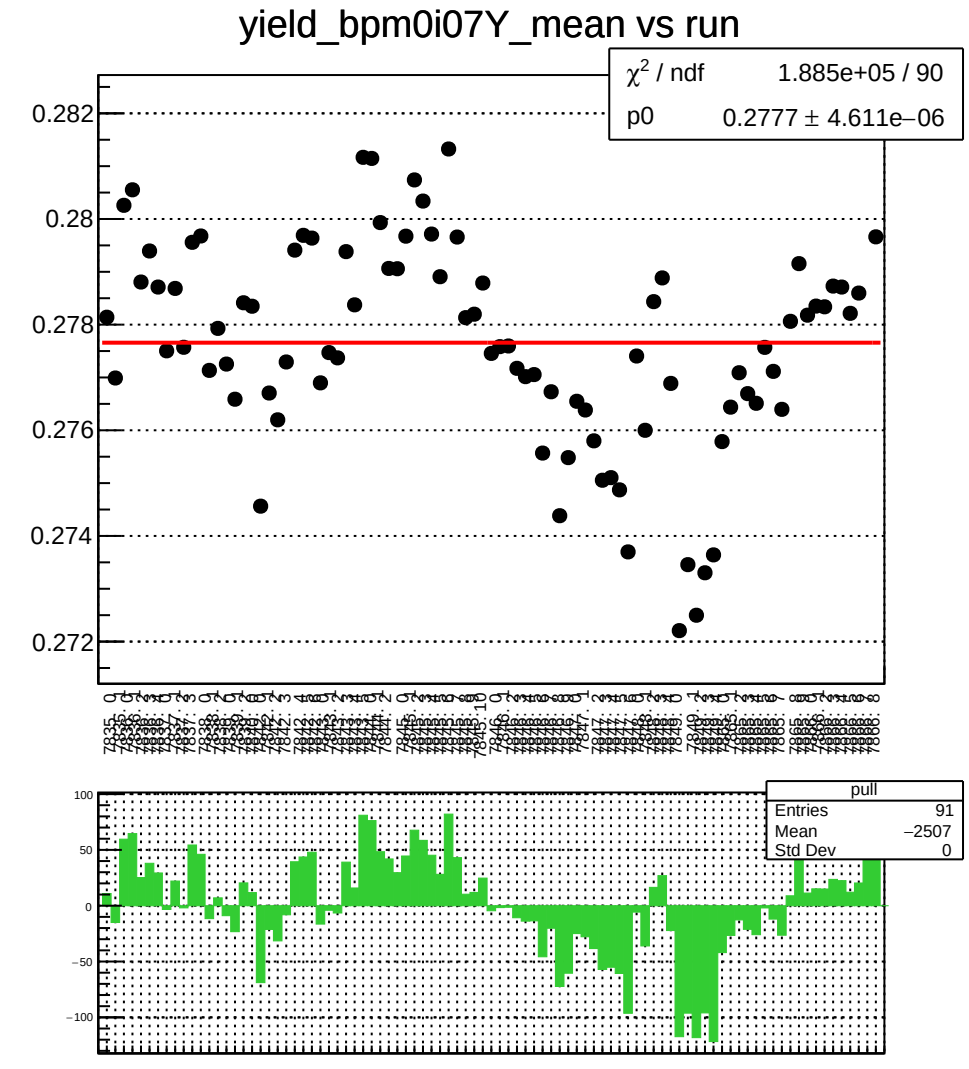
yield_bpm0i05Y_rms vs run

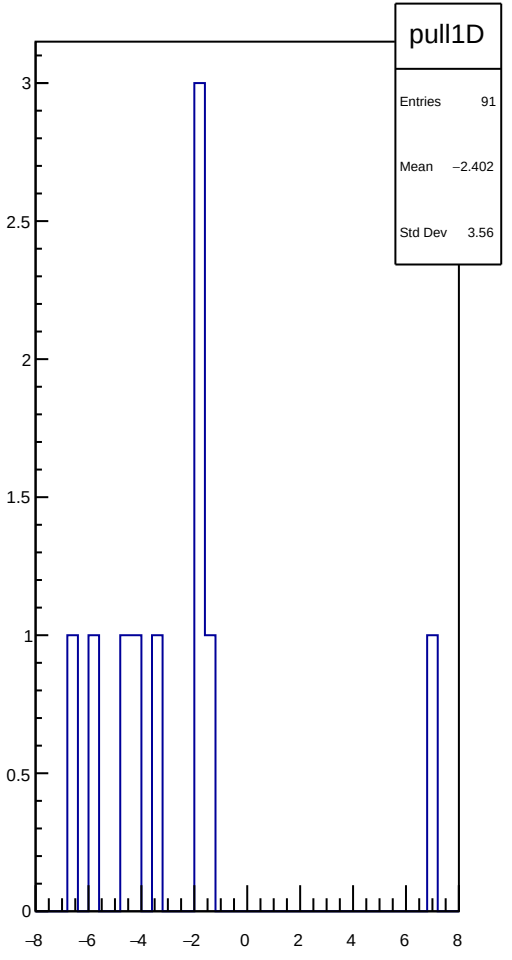


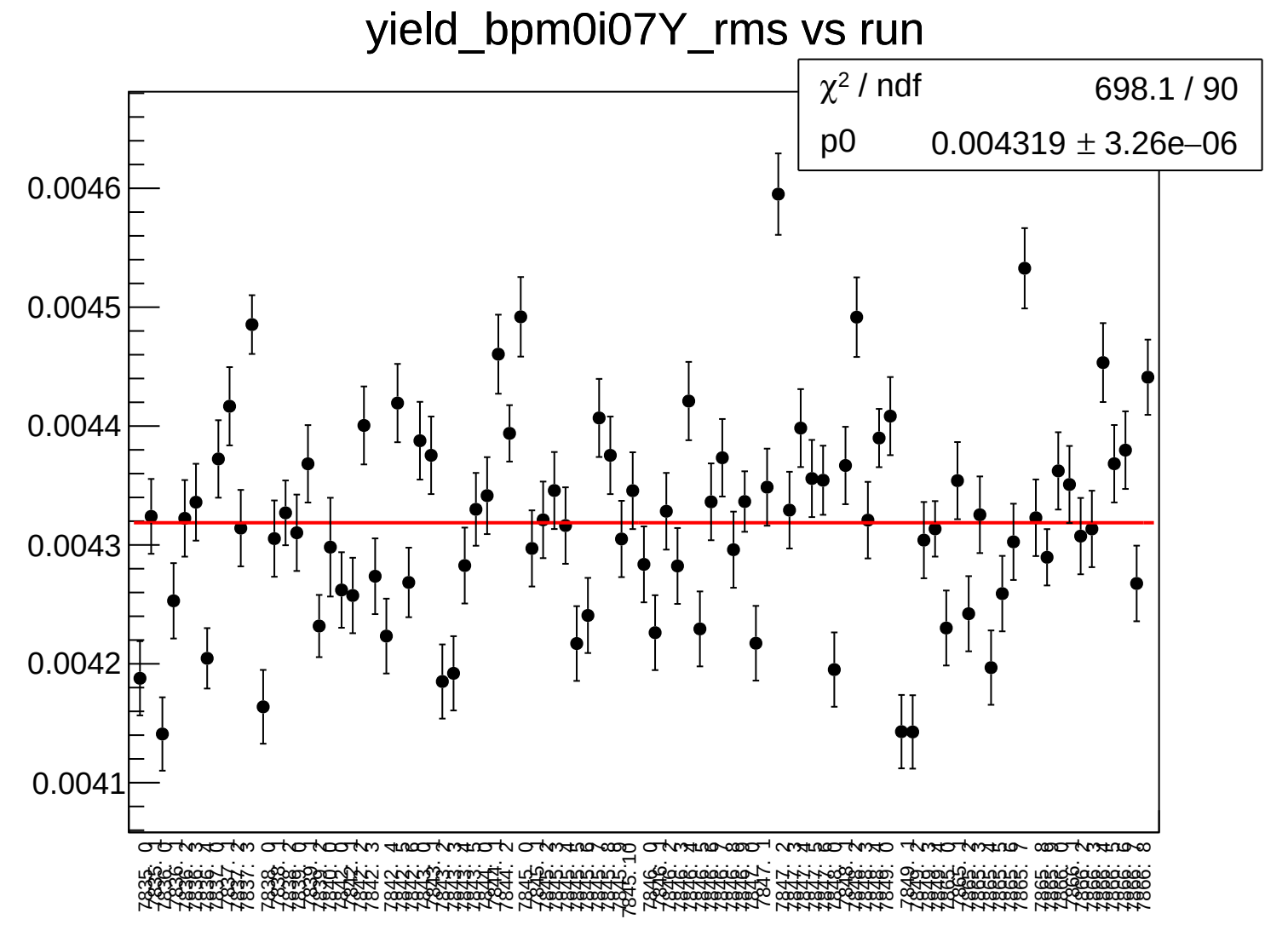

yield_bpm0i07X_mean vs run
χ² / ndf 2.384e+05 / 90
p0 −2.664 ± 8.254e−06
−2.66
−2.665
−2.67
−2.675
−2.68
pull
Entries 91
Mean −2.538e+04
Std Dev 0
50
0
−50
−100
−150

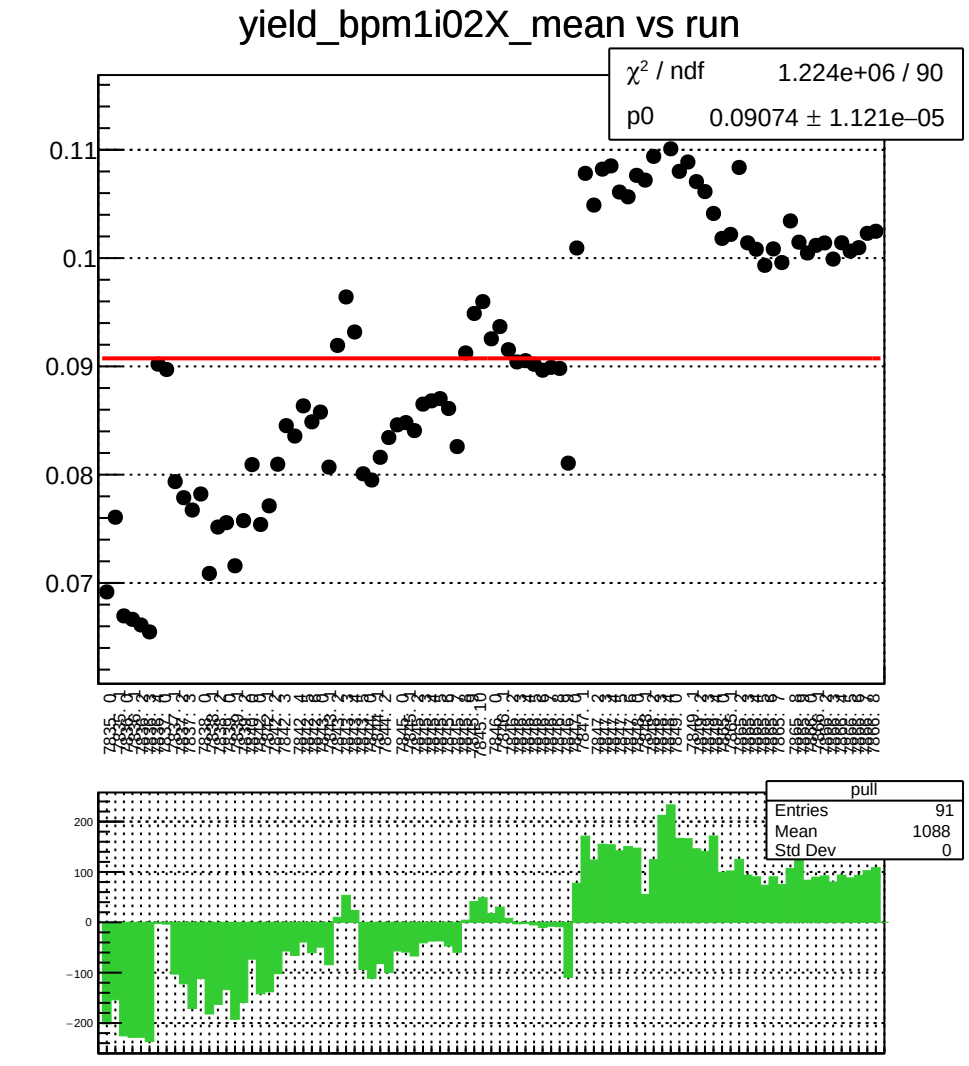

pull1D
Entries 91
Mean −2.199
Std Dev 4.073
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

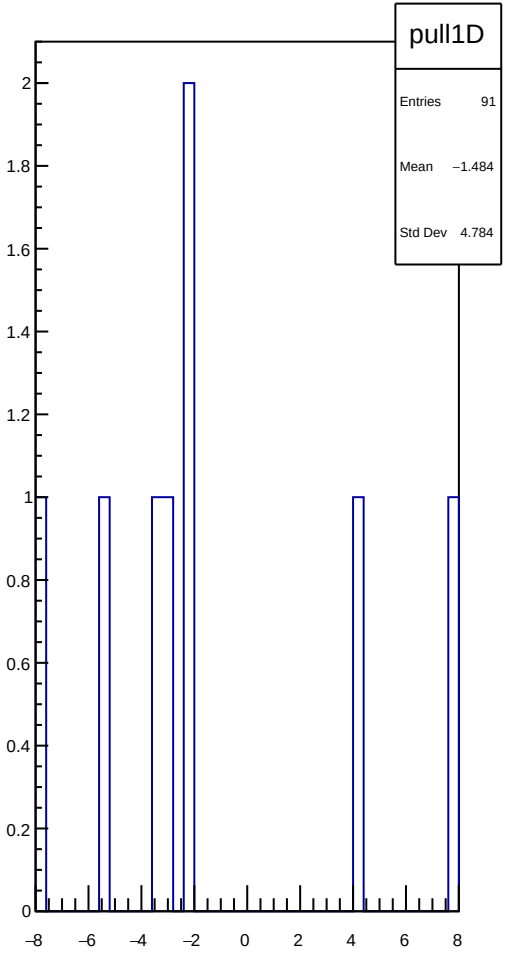

yield_bpm0i07X_rms vs run
χ² / ndf 3614 / 90
p0 0.007724 ± 5.836e−06
0.009
0.0085
0.008
0.0075
0.007

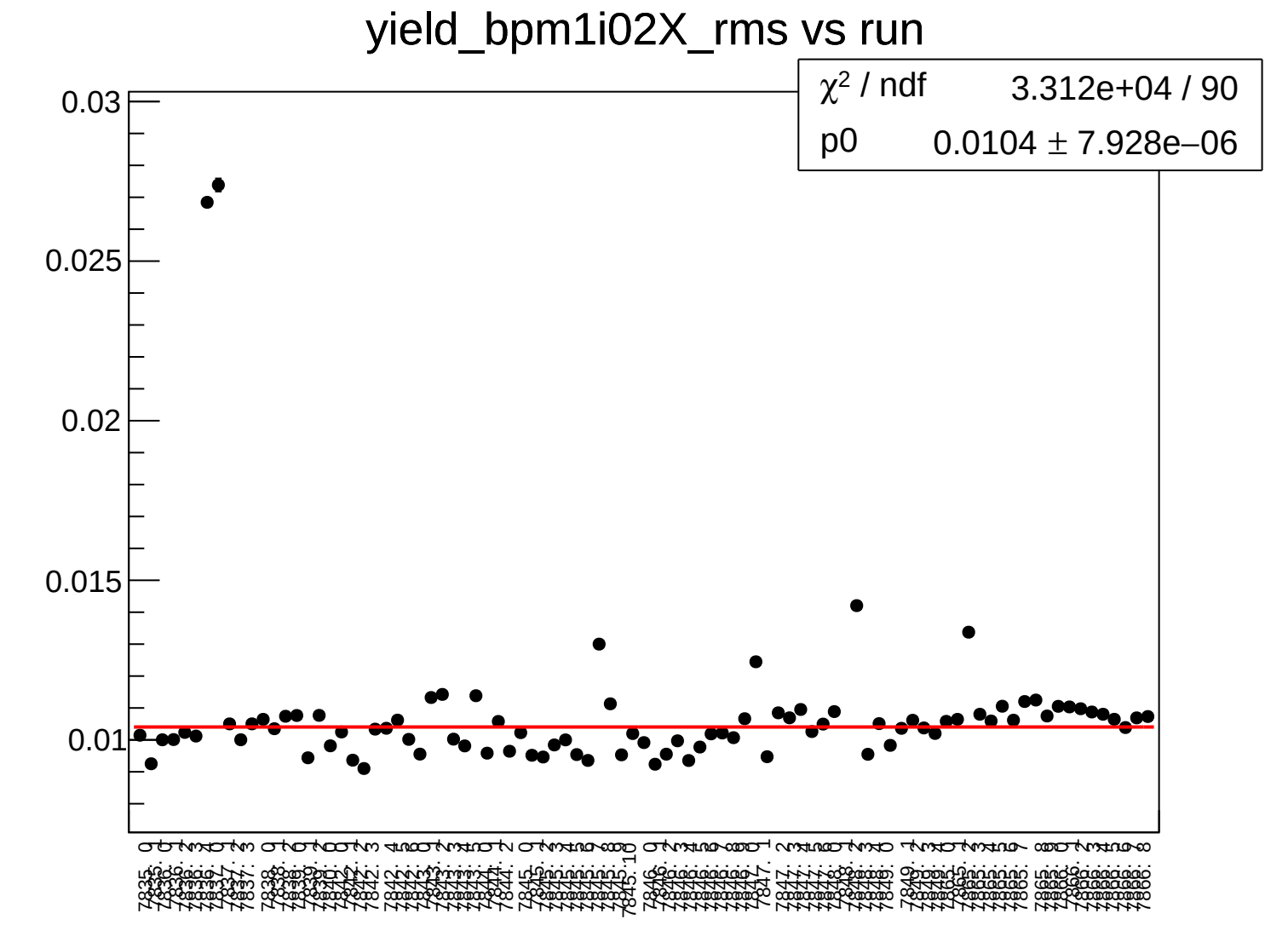

yield_bpm0i07Y_mean vs run
χ² / ndf 1.885e+05 / 90
p0 0.2777 ± 4.611e−06
0.282
0.28
0.278
0.276
0.274
0.272
pull
Entries 91
Mean −2507
Std Dev 0
100
50
0
−50
−100

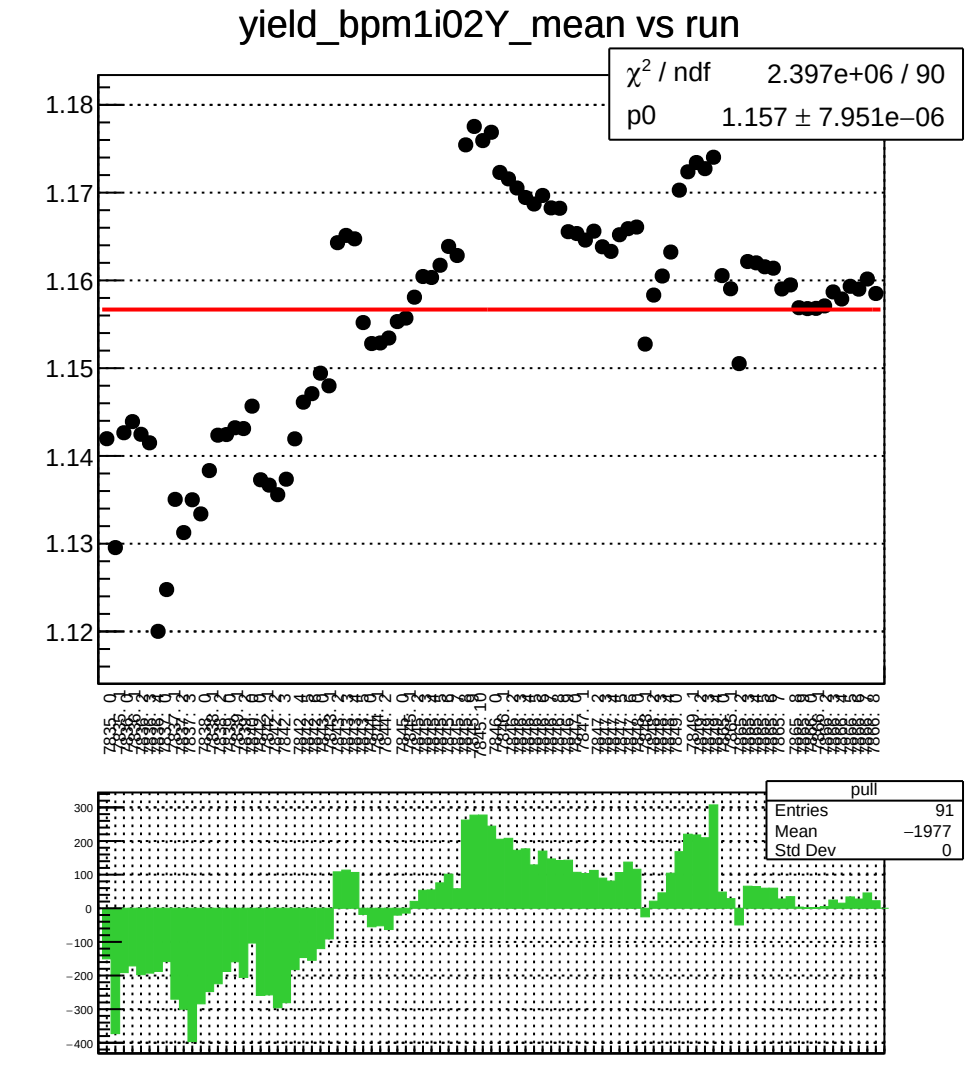

pull1D
Entries 91
Mean −2.402
Std Dev 3.56
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

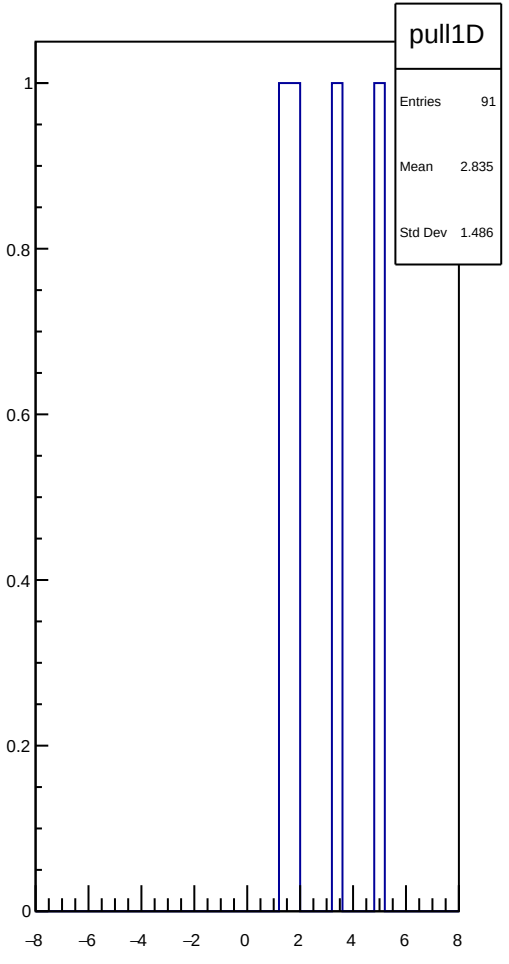

yield_bpm0i07Y_rms vs run
χ² / ndf 698.1 / 90
p0 0.004319 ± 3.26e−06
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041

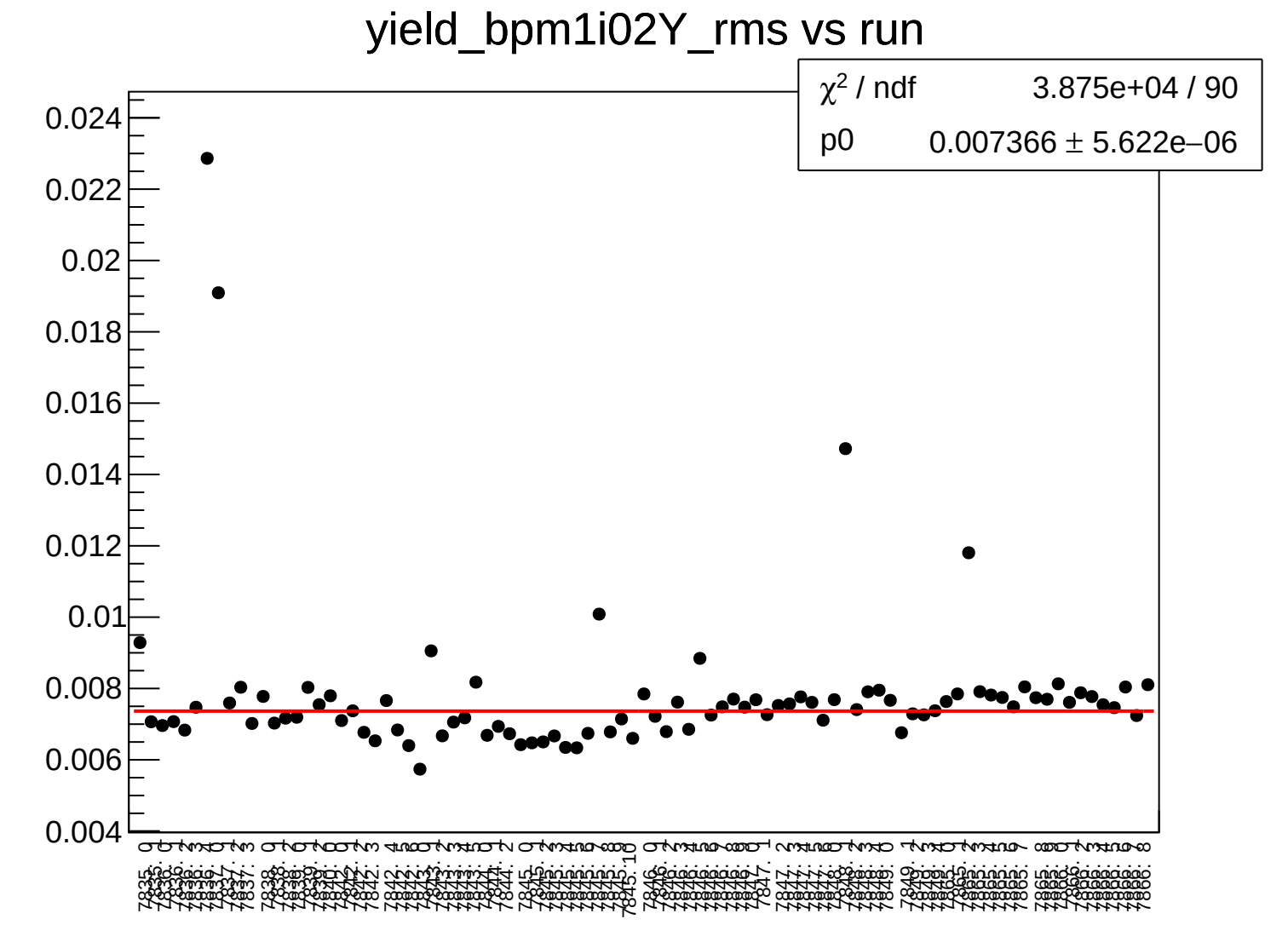

yield_bpm1i02X_mean vs run
χ² / ndf 1.224e+06 / 90
p0 0.09074 ± 1.121e−05
0.11
0.1
0.09
0.08
0.07
pull
Entries 91
Mean 1088
Std Dev 0
200
100
0
−100
−200

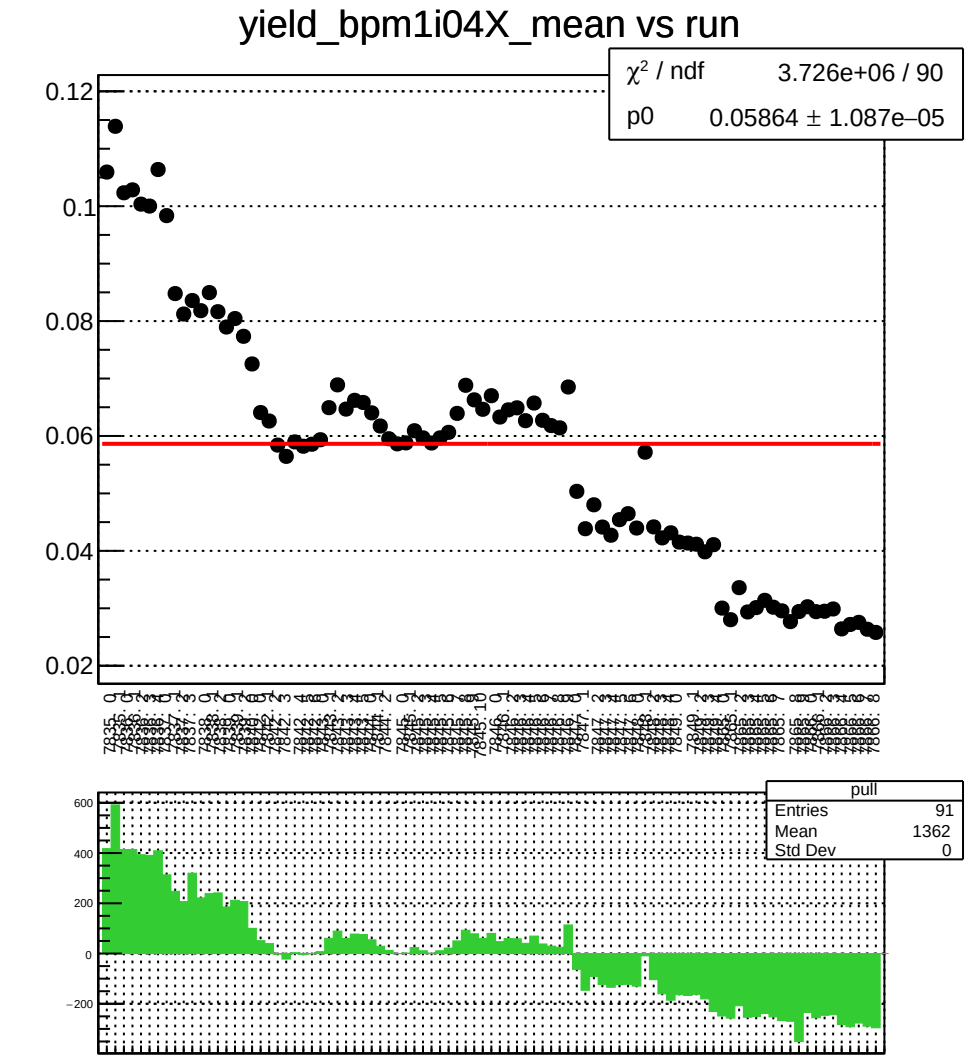

pull1D
Entries 91
Mean −1.484
Std Dev 4.784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

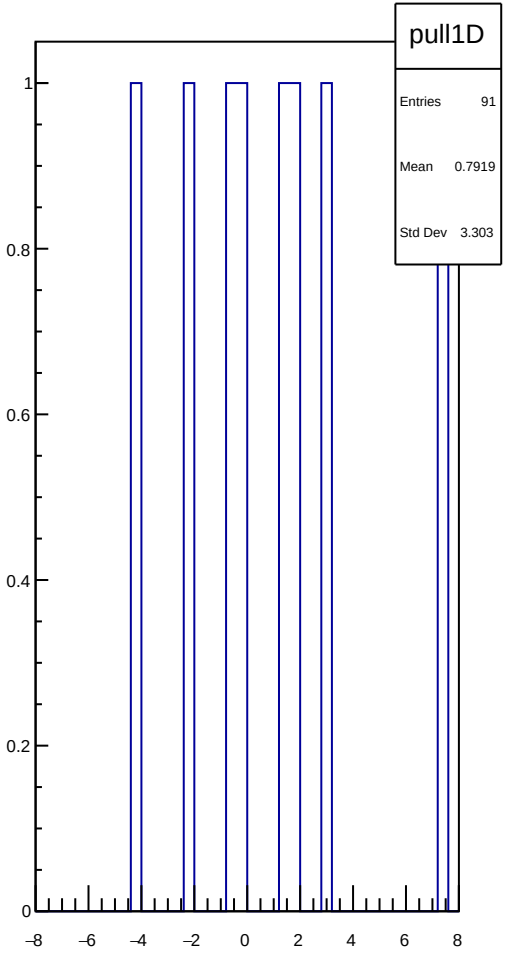

yield_bpm1i02X_rms vs run
χ² / ndf 3.312e+04 / 90
p0 0.0104 ± 7.928e−06
0.03
0.025
0.02
0.015
0.01

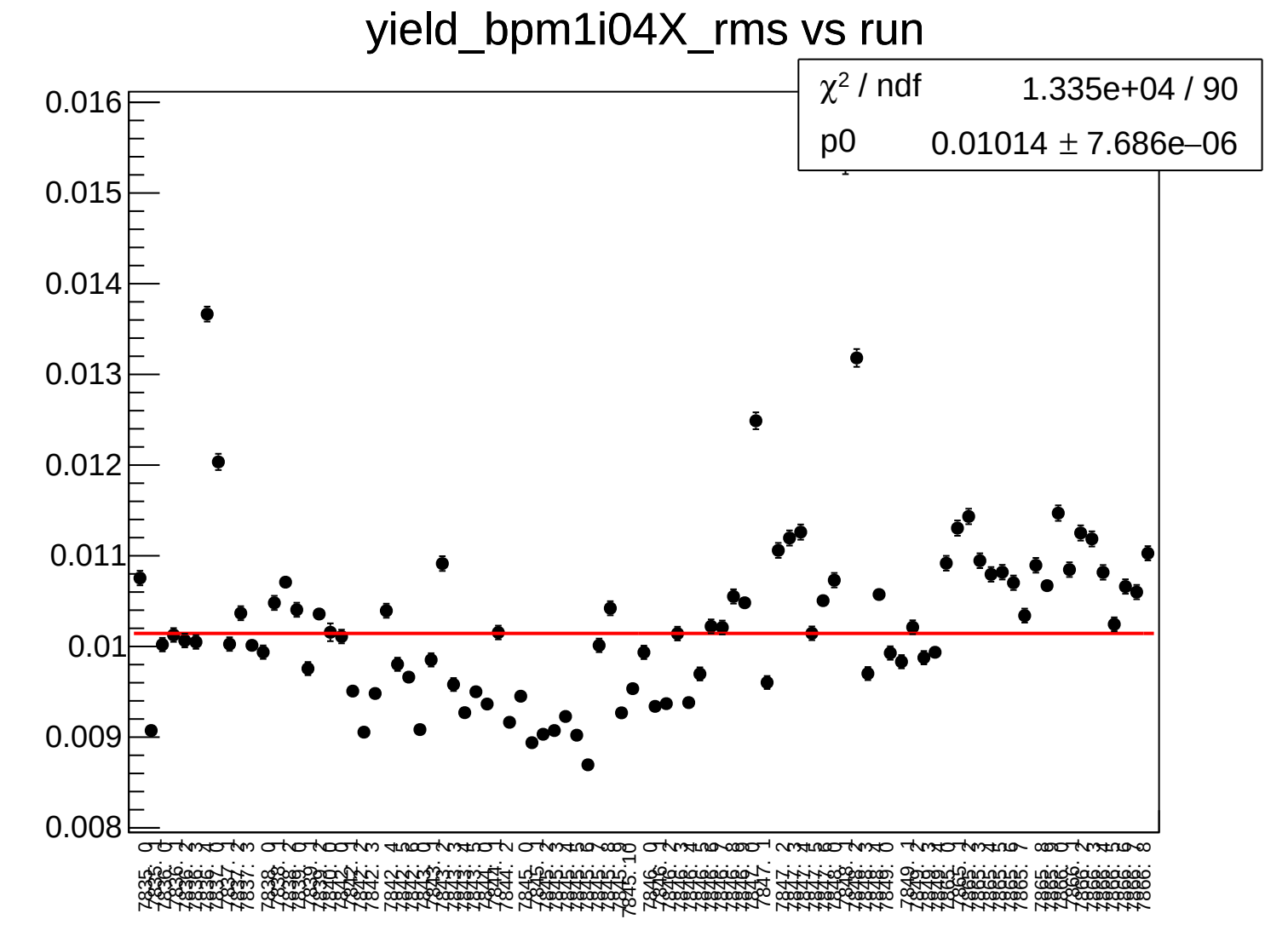

yield_bpm1i02Y_mean vs run
χ² / ndf 2.397e+06 / 90
p0 1.157 ± 7.951e−06
1.18
1.17
1.16
1.15
1.14
1.13
1.12
pull
Entries 91
Mean −1977
Std Dev 0
300
200
100
0
−100
−200
−300
−400

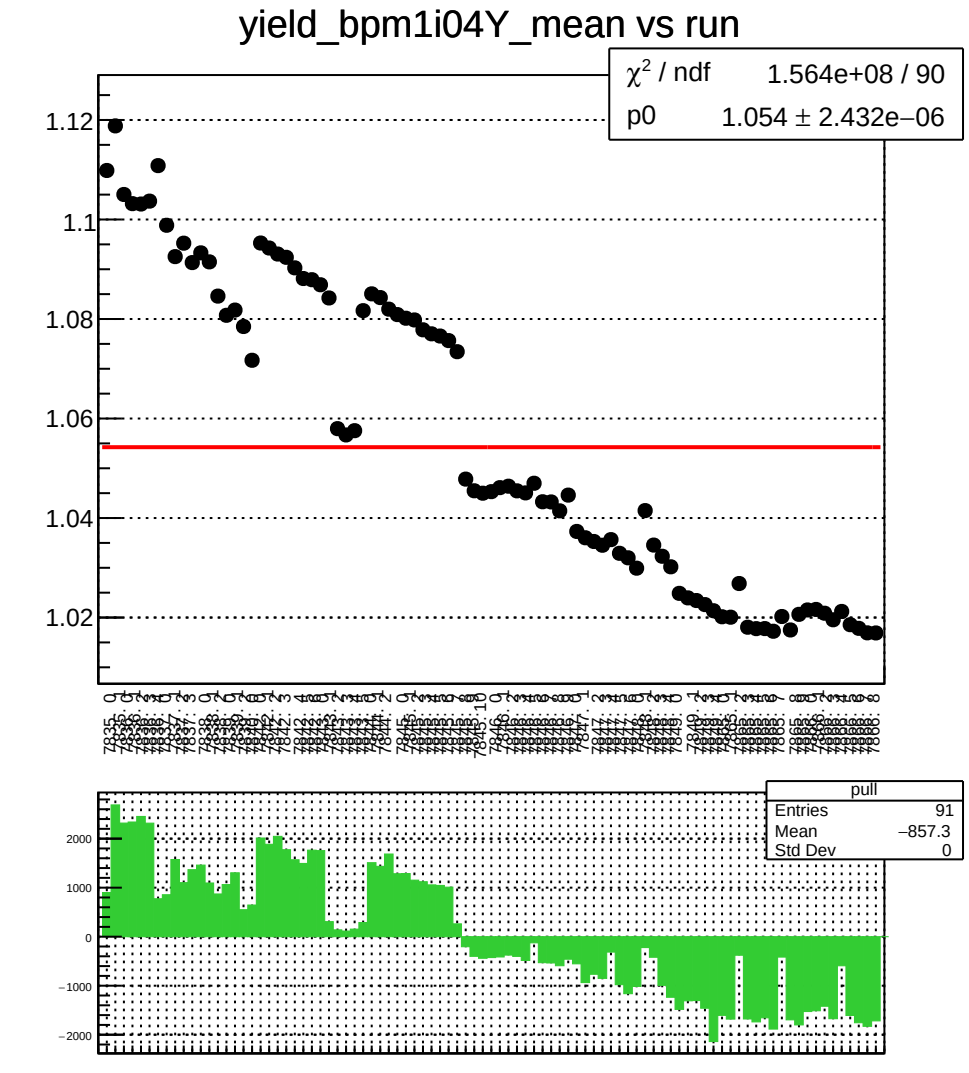

pull1D
Entries 91
Mean 2.835
Std Dev 1.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

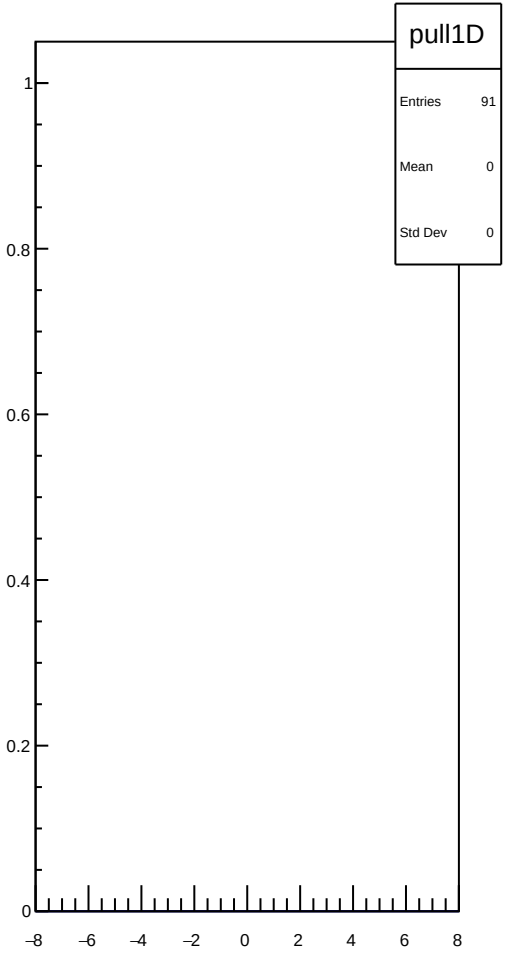

yield_bpm1i02Y_rms vs run
χ² / ndf 3.875e+04 / 90
p0 0.007366 ± 5.622e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

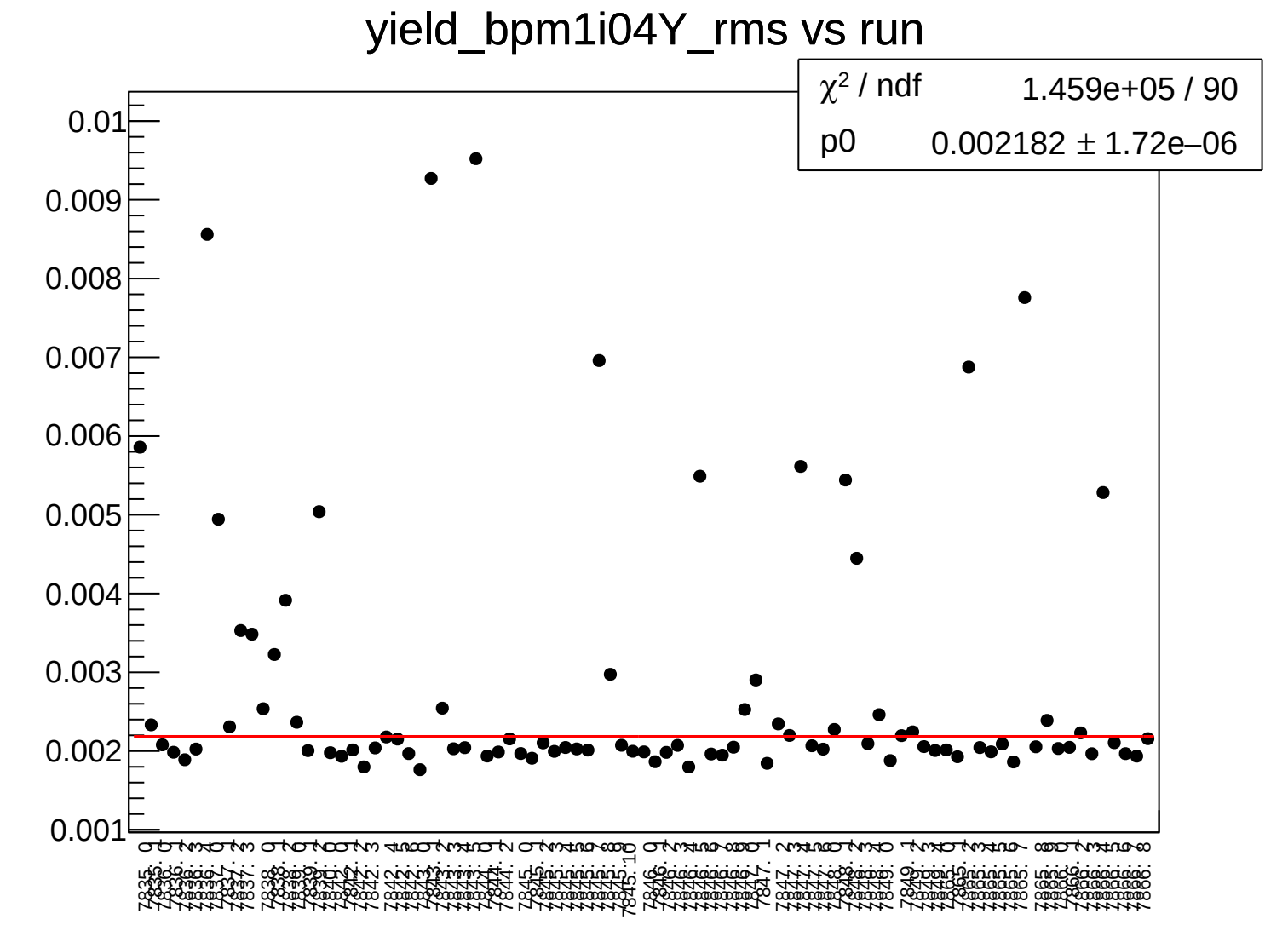

yield_bpm1i04X_mean vs run
χ² / ndf 3.726e+06 / 90
p0 0.05864 ± 1.087e−05
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 91
Mean 1362
Std Dev 0
600
400
200
0
−200

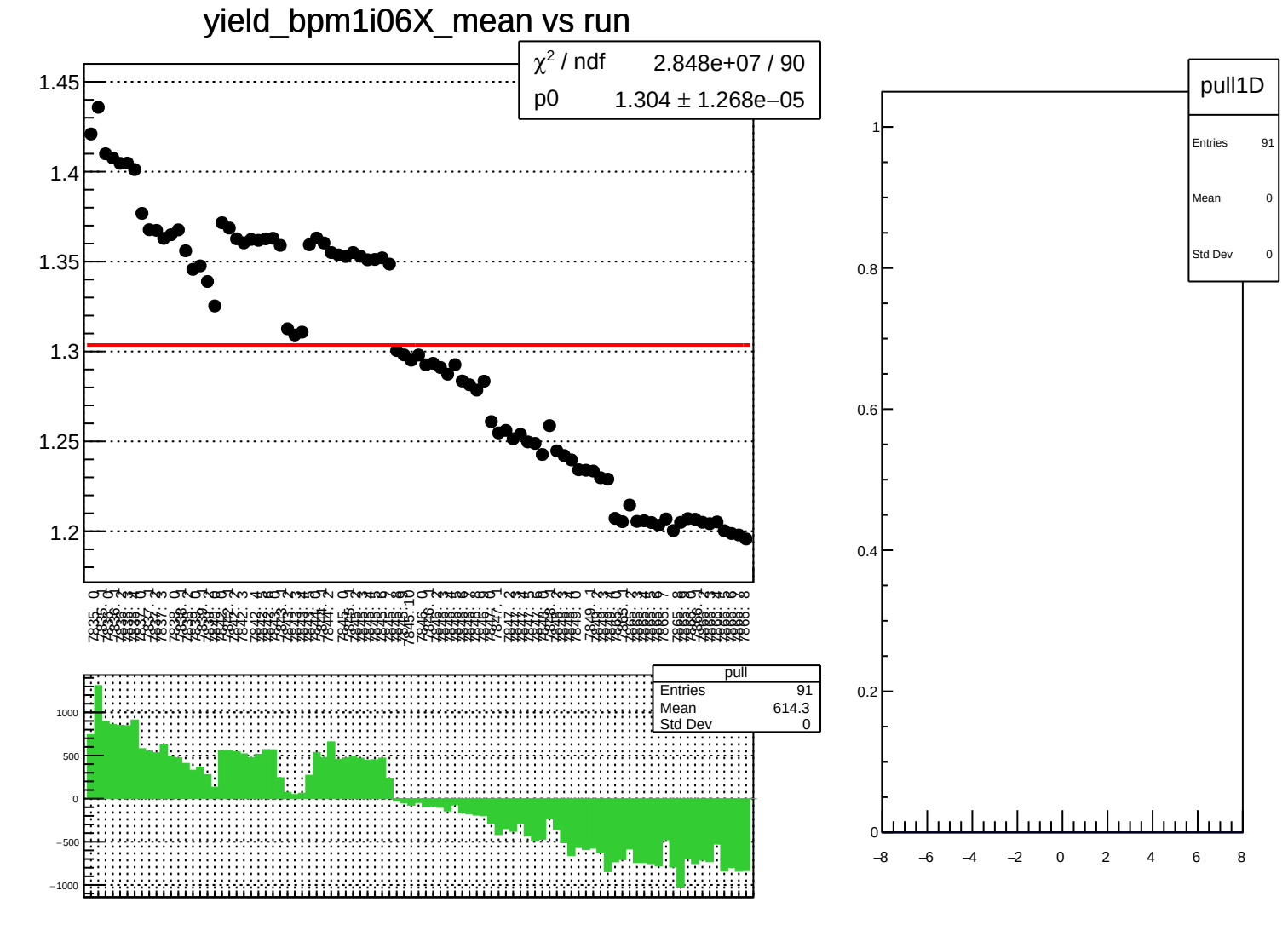

pull1D
Entries 91
Mean 0.7919
Std Dev 3.303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

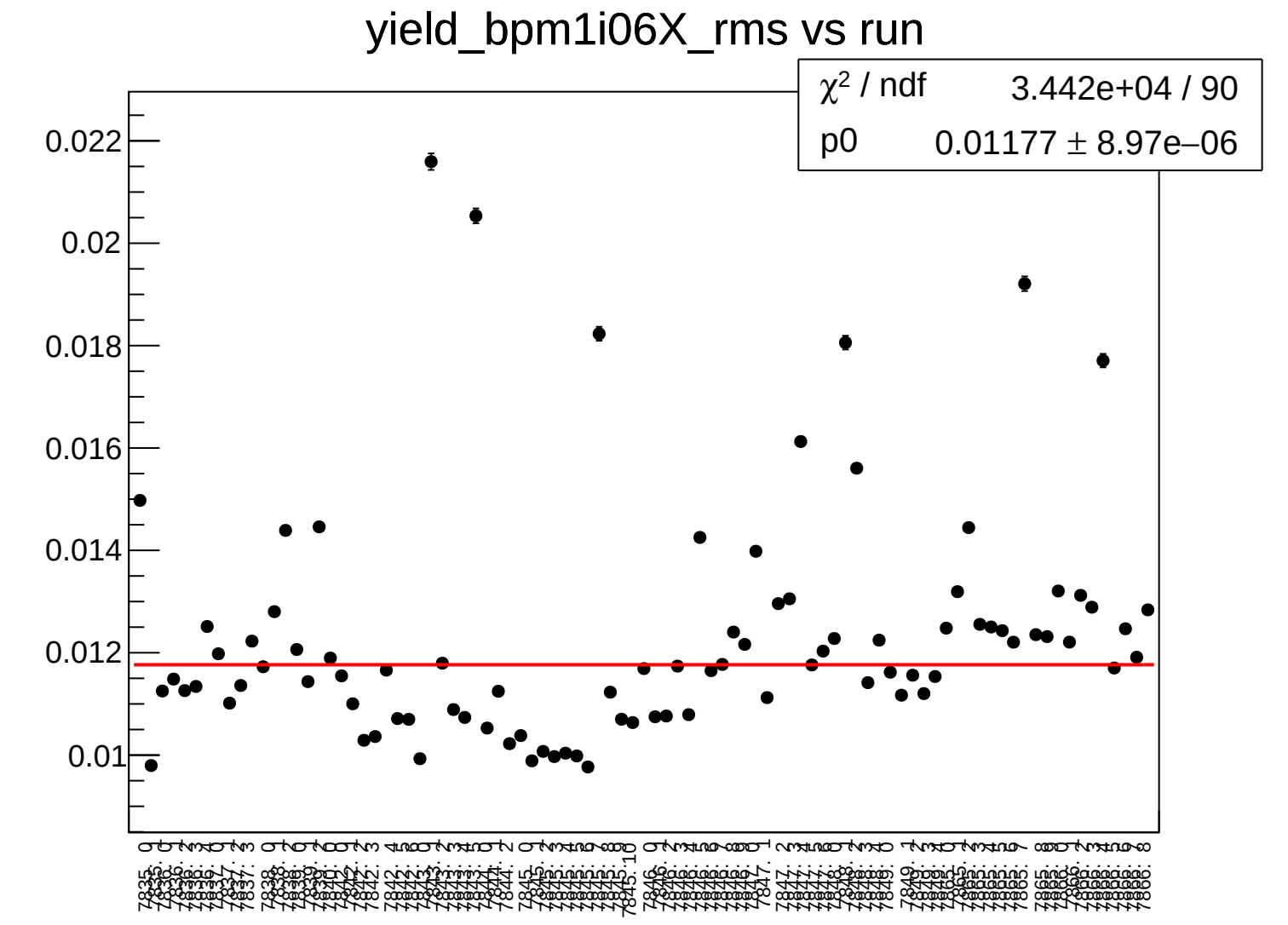

yield_bpm1i04X_rms vs run
χ² / ndf 1.335e+04 / 90
p0 0.01014 ± 7.686e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

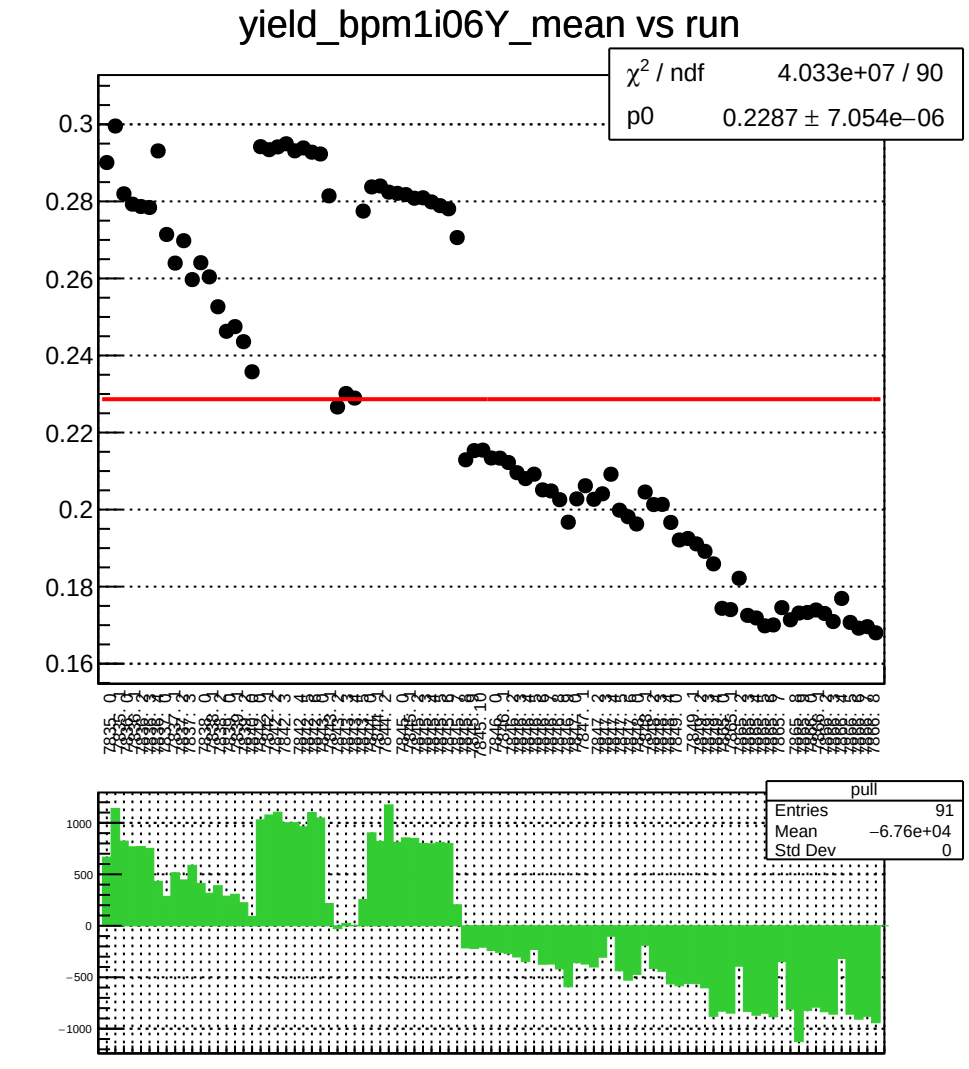

yield_bpm1i04Y_mean vs run
χ² / ndf 1.564e+08 / 90
p0 1.054 ± 2.432e−06
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 91
Mean −857.3
Std Dev 0
2000
1000
0
−1000
−2000

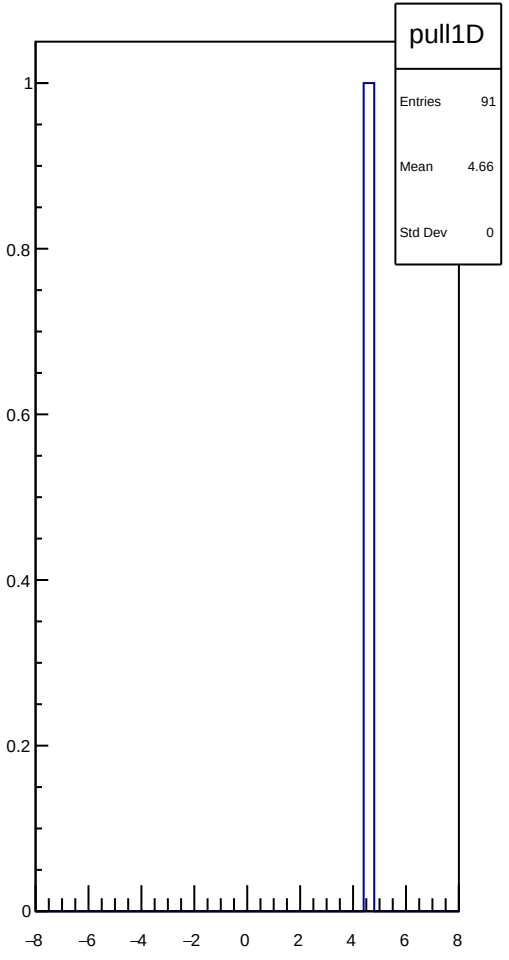

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

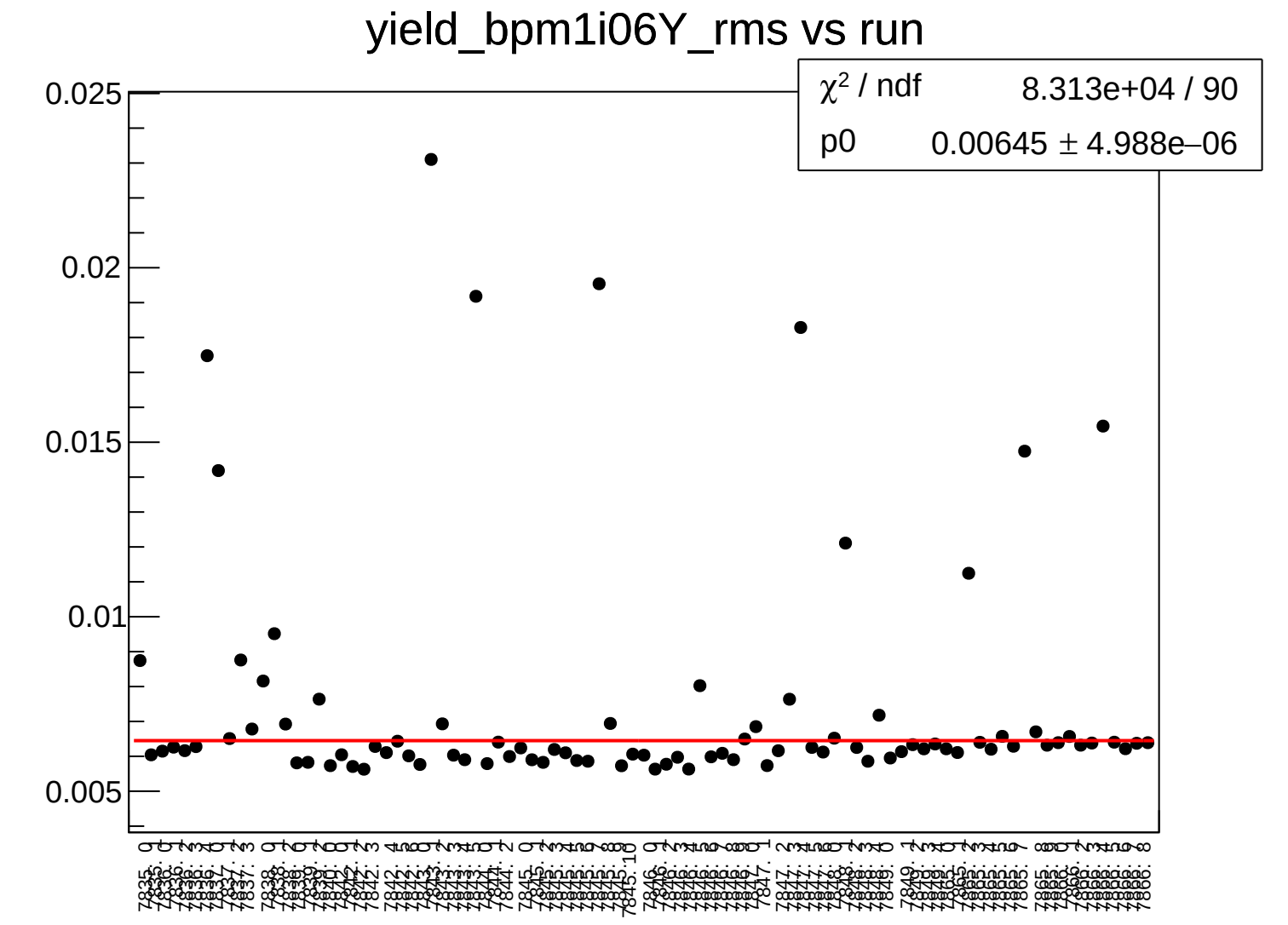

yield_bpm1i04Y_rms vs run
χ² / ndf 1.459e+05 / 90
p0 0.002182 ± 1.72e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

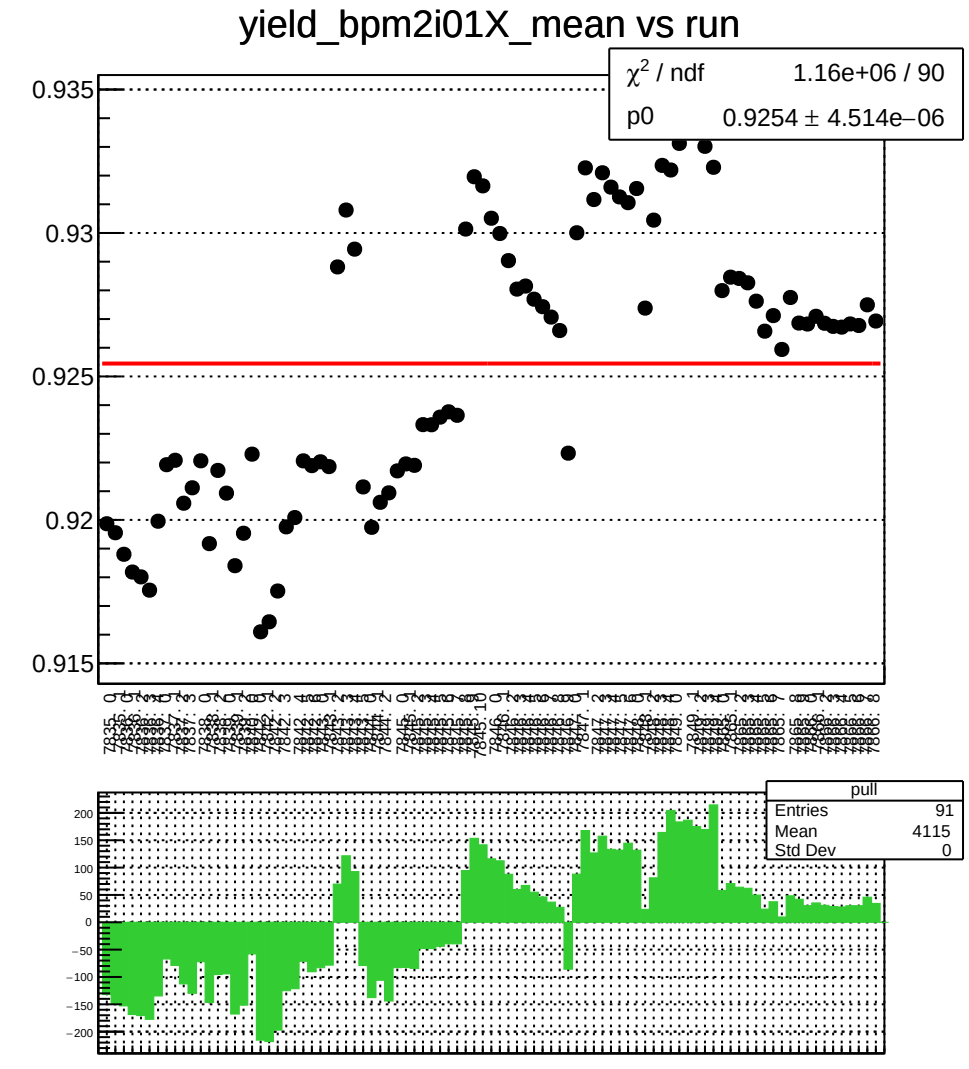

yield_bpm1i06X_mean vs run
χ² / ndf 2.848e+07 / 90
p0 1.304 ± 1.268e−05
1.45
1.4
1.35
1.3
1.25
1.2
pull
Entries 91
Mean 614.3
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

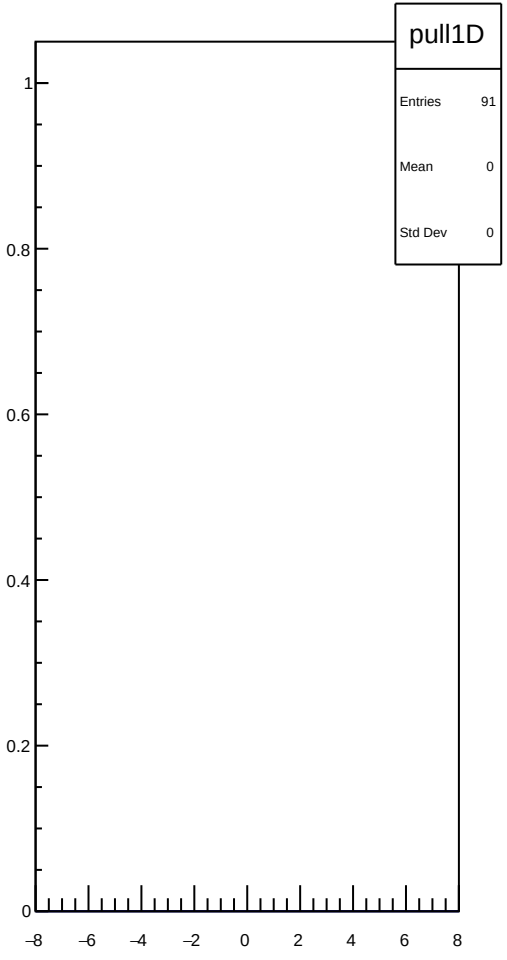

yield_bpm1i06X_rms vs run
χ² / ndf 3.442e+04 / 90
p0 0.01177 ± 8.97e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

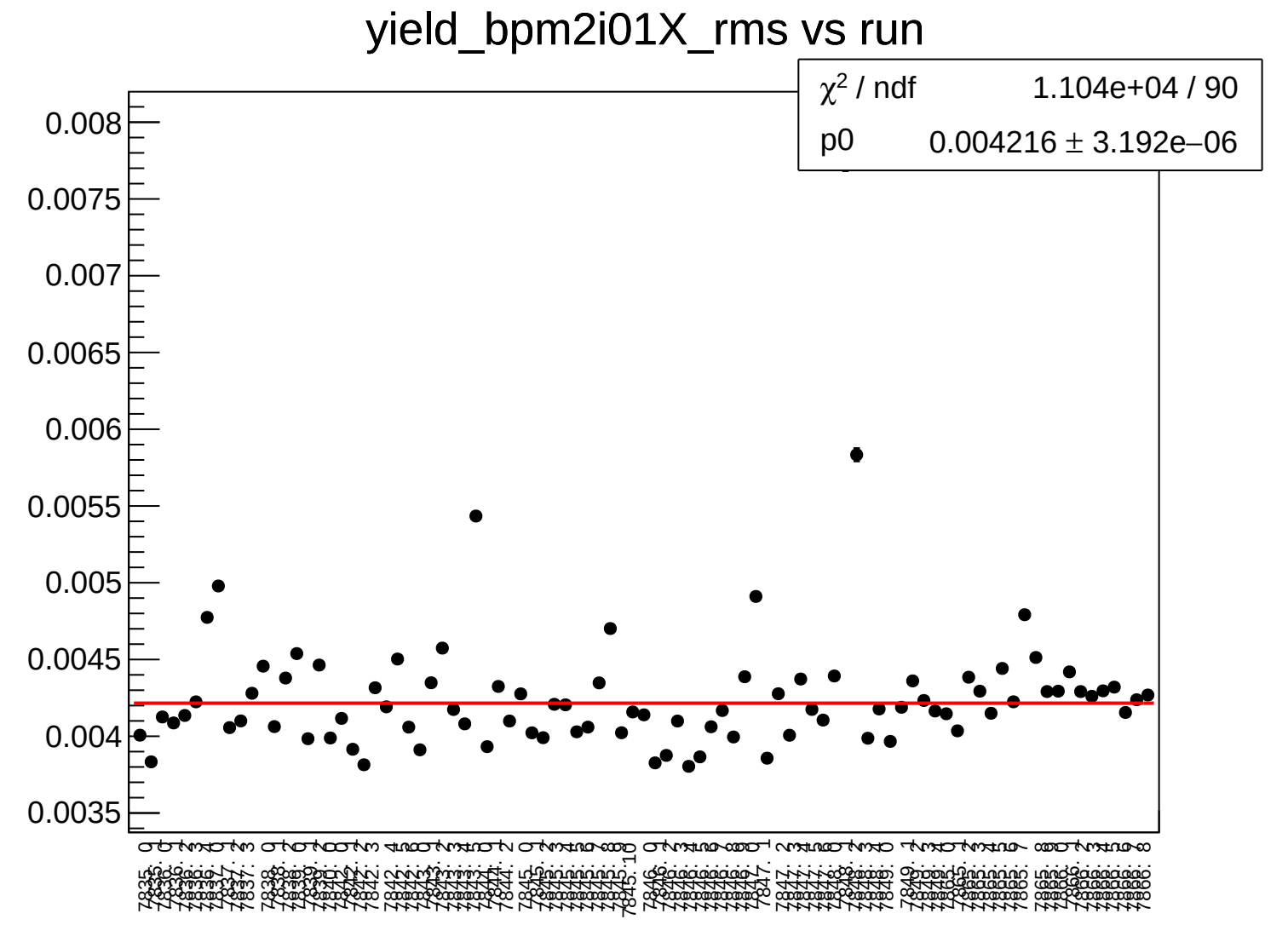

yield_bpm1i06Y_mean vs run
χ² / ndf 4.033e+07 / 90
p0 0.2287 ± 7.054e−06
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
pull
Entries 91
Mean −6.76e+04
Std Dev 0
1000
500
0
−500
−1000

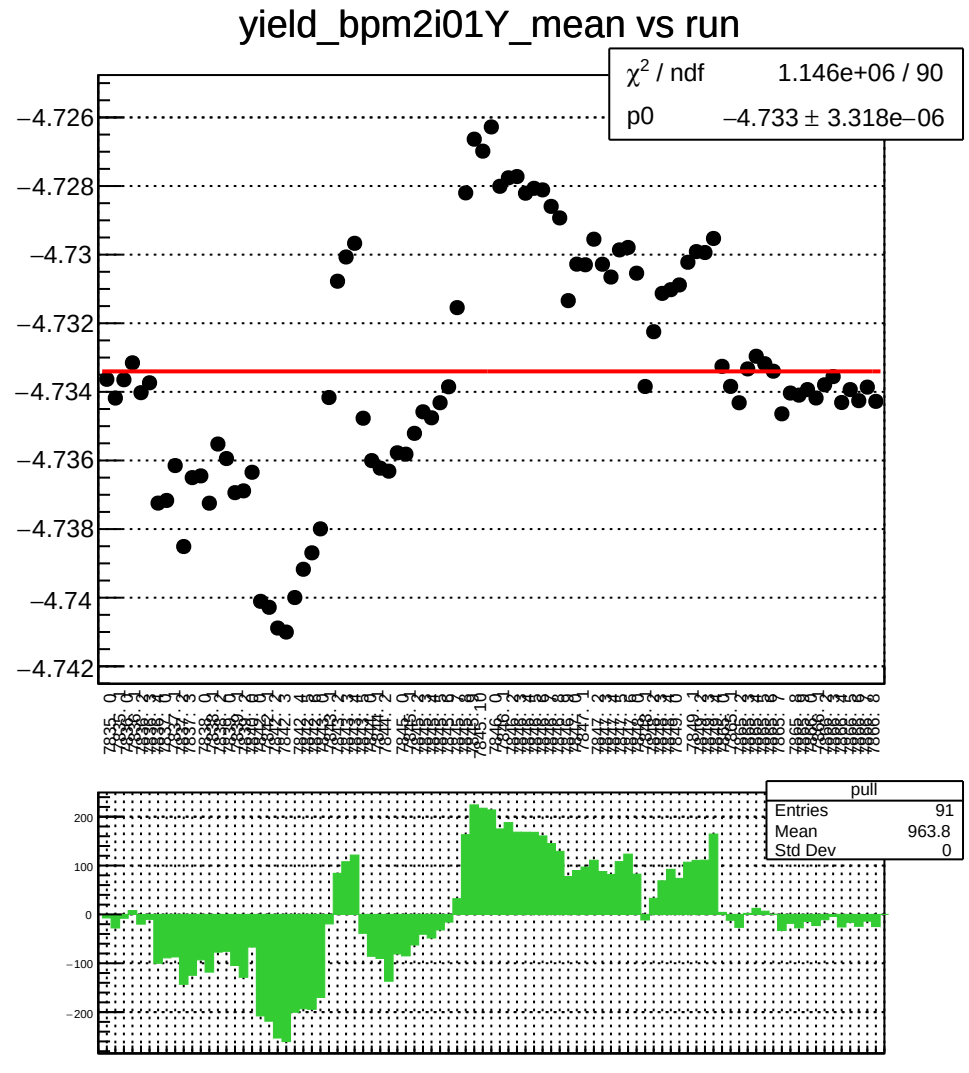

pull1D
Entries 91
Mean 4.66
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

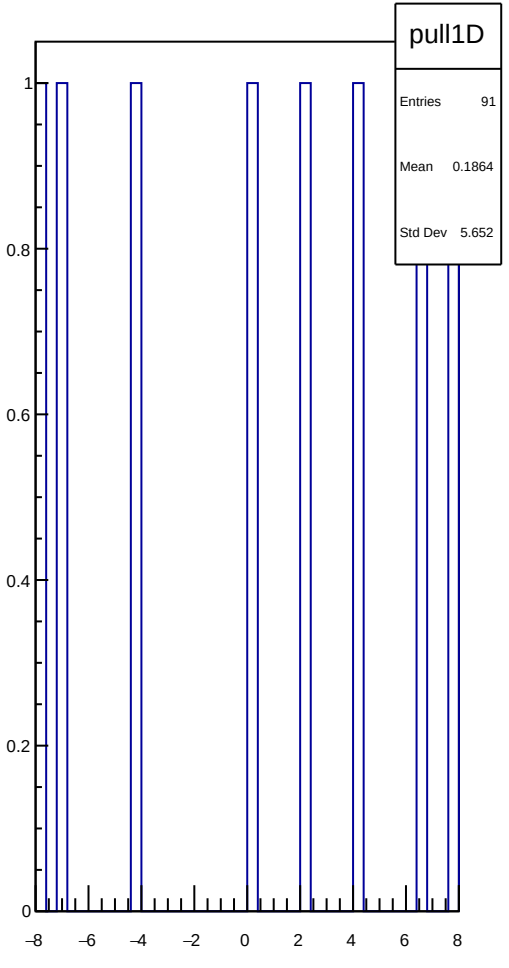

yield_bpm1i06Y_rms vs run
χ² / ndf 8.313e+04 / 90
p0 0.00645 ± 4.988e–06
0.025
0.02
0.015
0.01
0.005

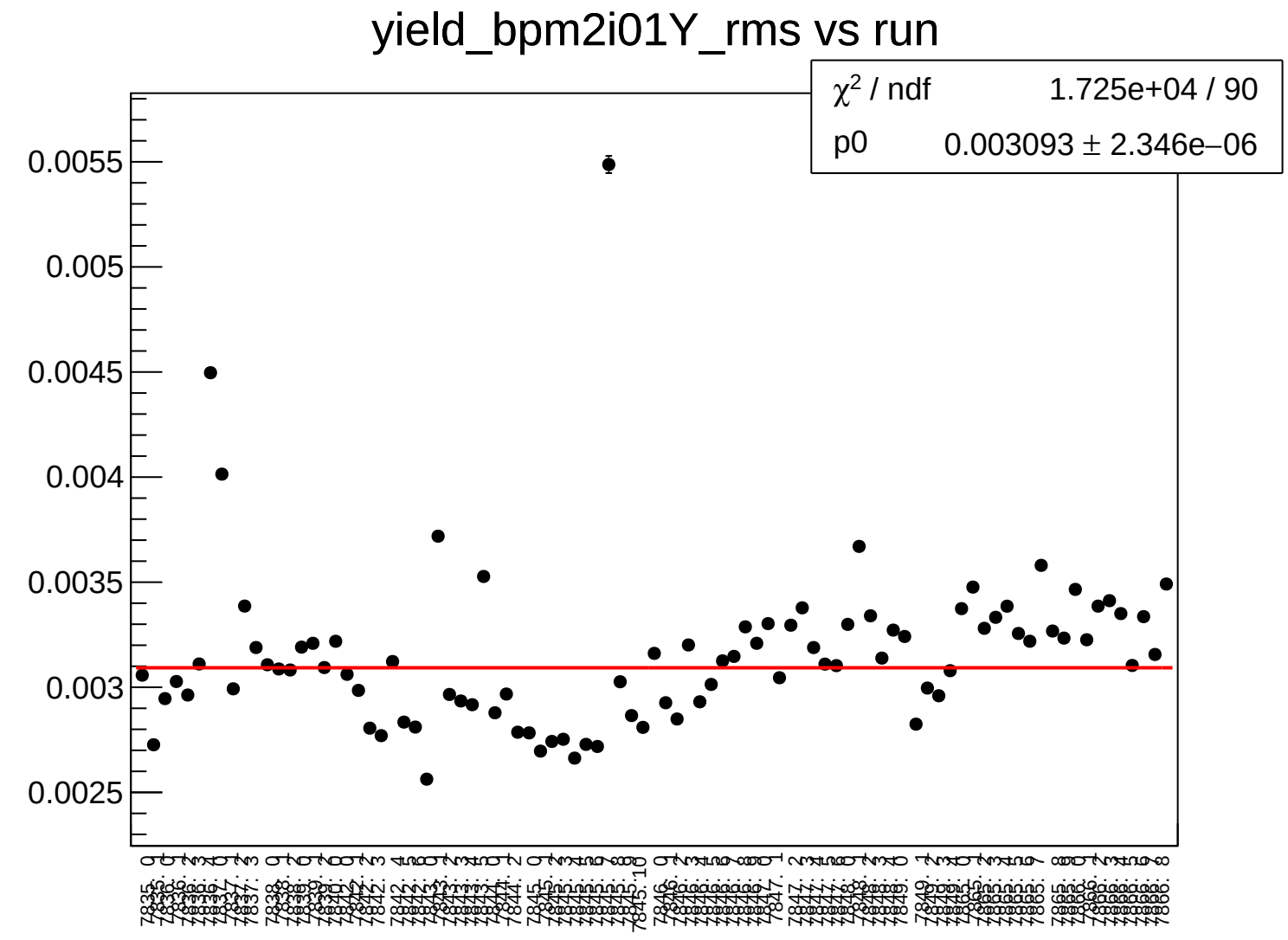

yield_bpm2i01X_mean vs run
χ² / ndf 1.16e+06 / 90
p0 0.9254 ± 4.514e−06
0.935
0.93
0.925
0.92
0.915
pull
Entries 91
Mean 4115
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

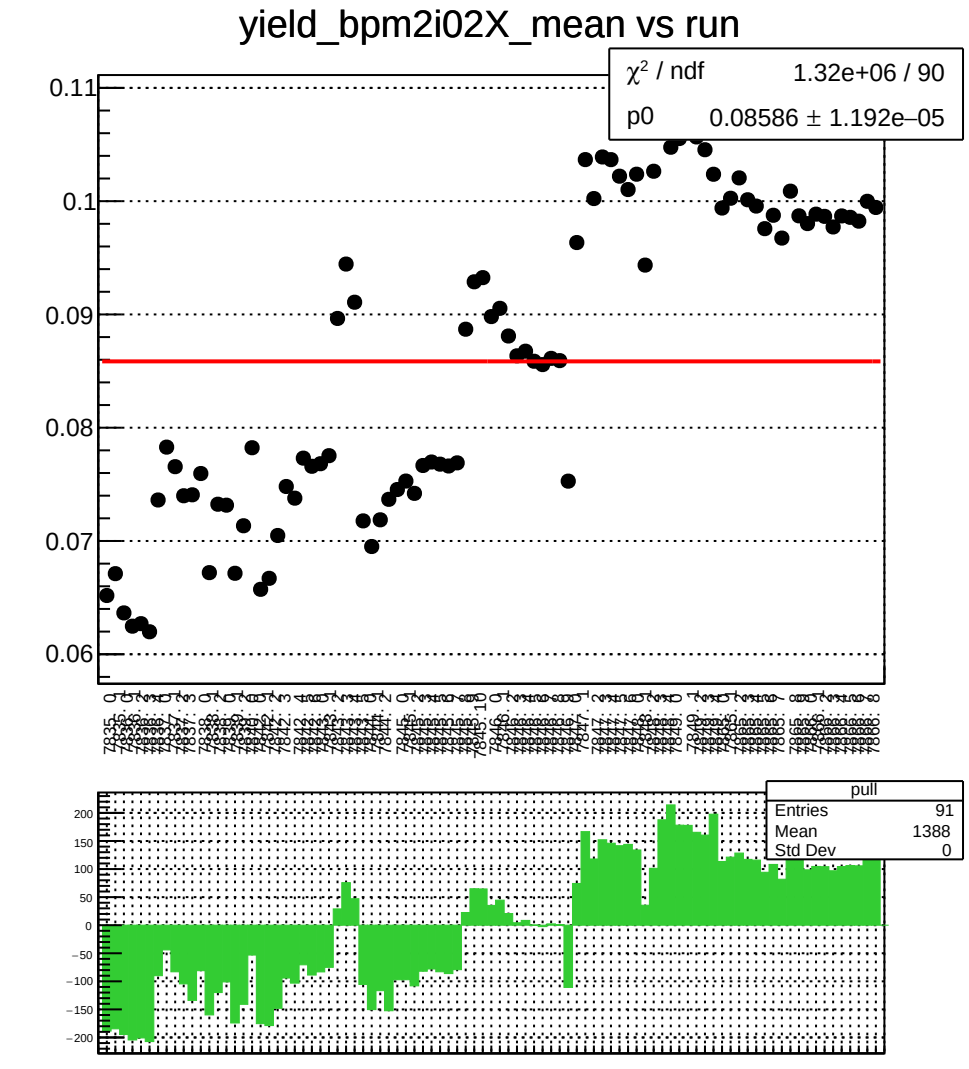

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

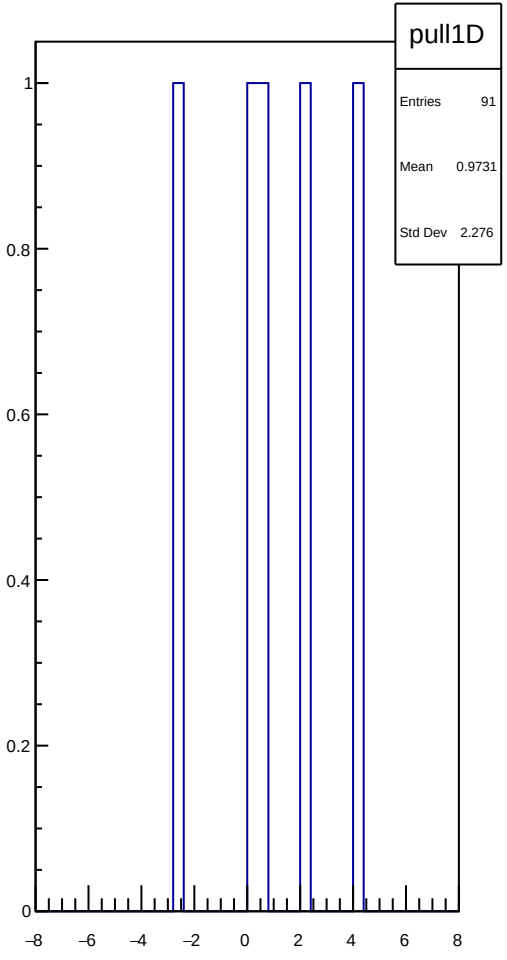

yield_bpm2i01X_rms vs run
χ^2 / ndf 1.104e+04 / 90
p0 0.004216 ± 3.192e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

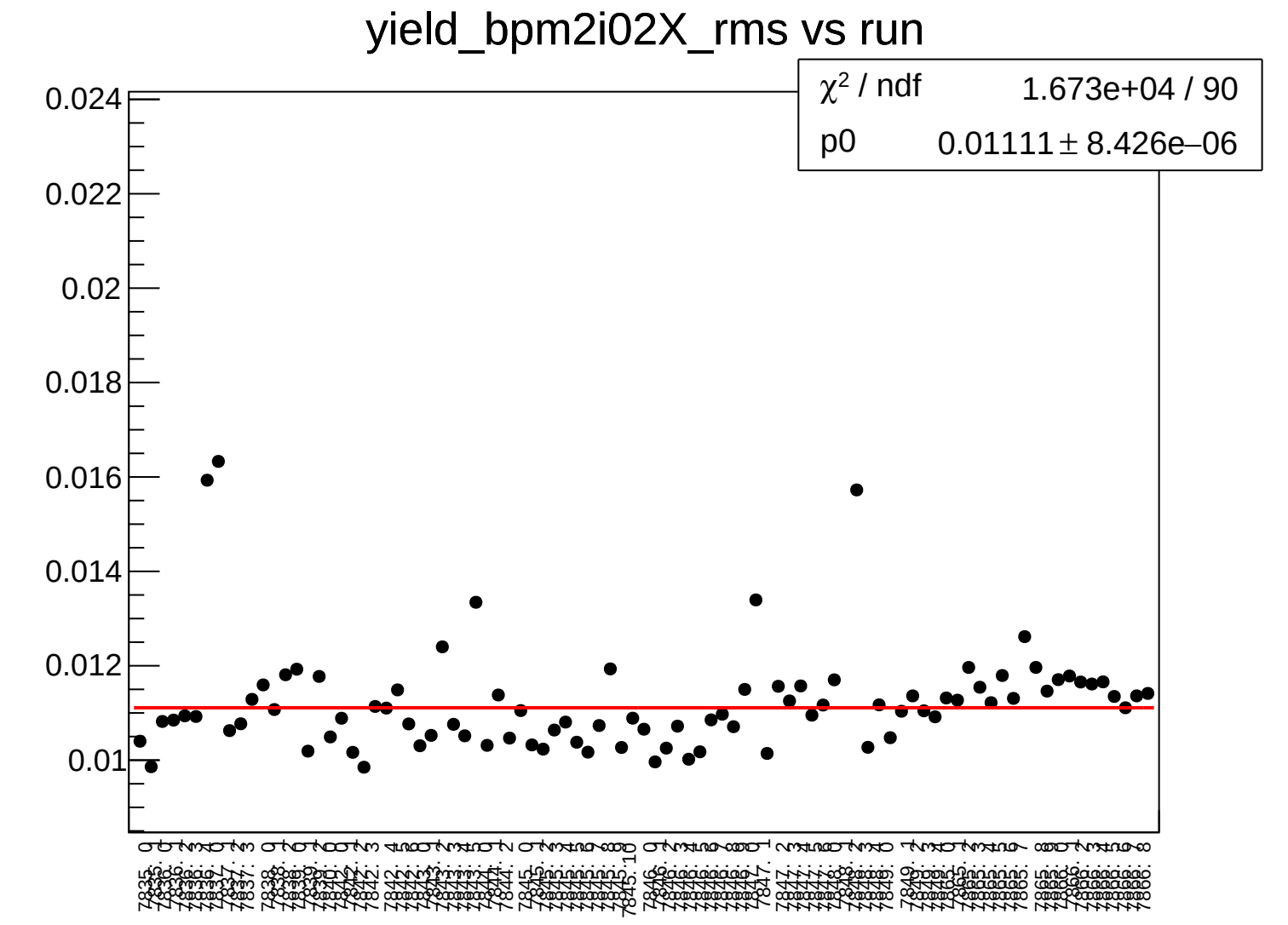

yield_bpm2i01Y_mean vs run
χ² / ndf 1.146e+06 / 90
p0 −4.733 ± 3.318e−06
−4.726
−4.728
−4.73
−4.732
−4.734
−4.736
−4.738
−4.74
−4.742
pull
Entries 91
Mean 963.8
Std Dev 0
200
100
0
−100
−200

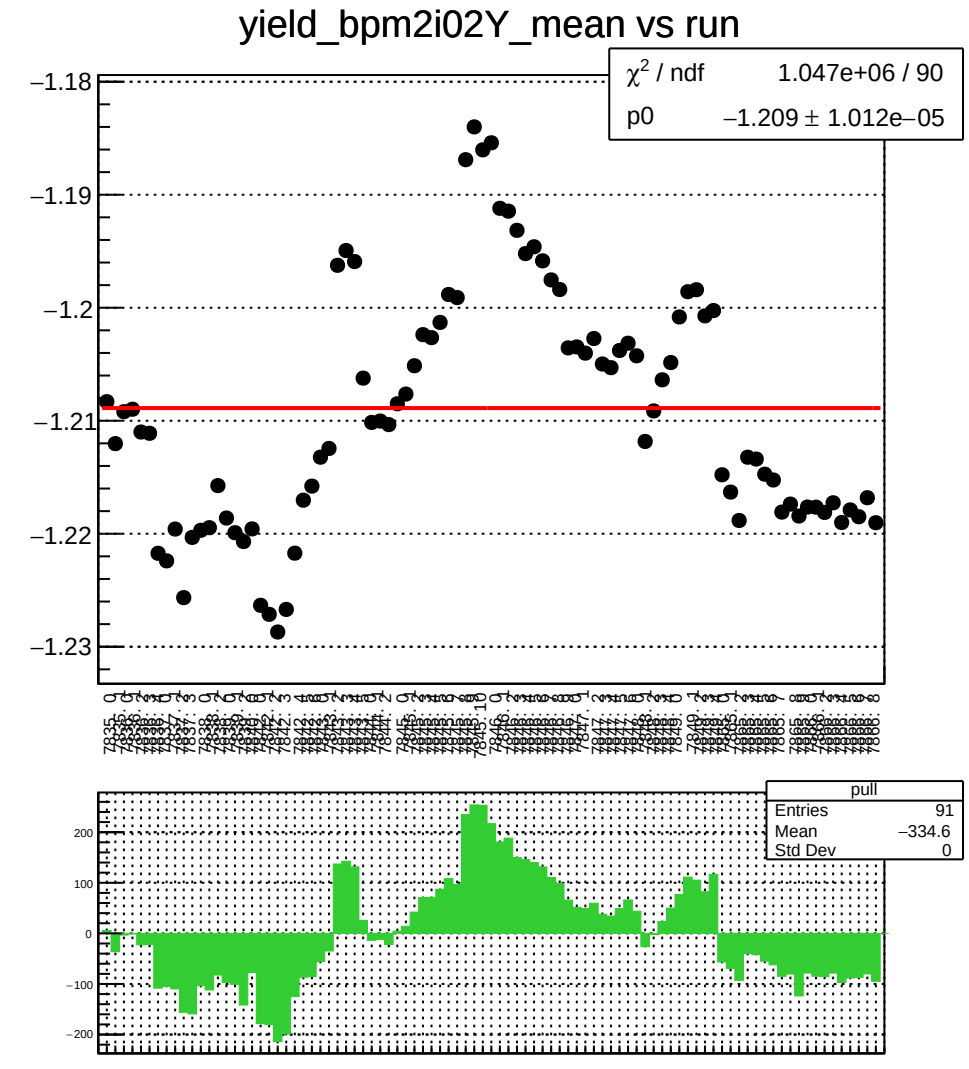

pull1D
Entries 91
Mean 0.1864
Std Dev 5.652
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

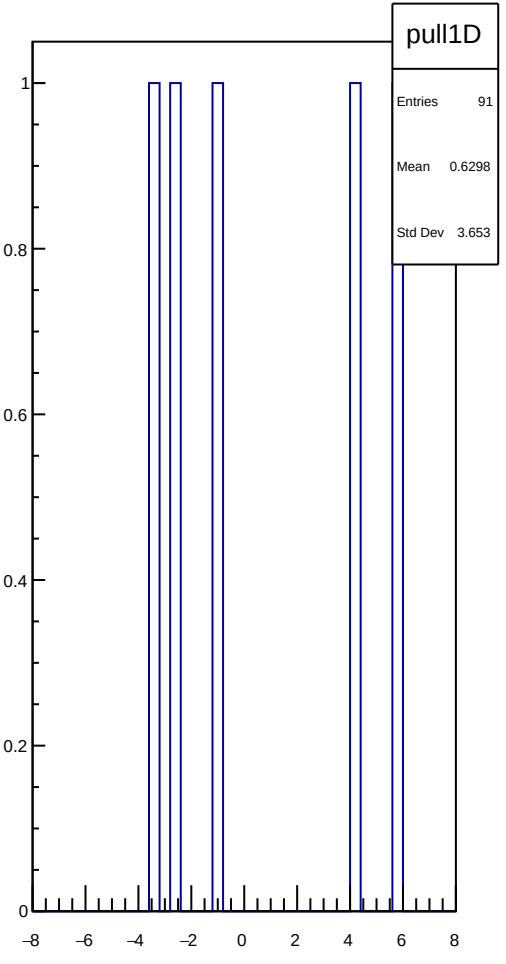

yield_bpm2i01Y_rms vs run
χ² / ndf 1.725e+04 / 90
p0 0.003093 ± 2.346e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

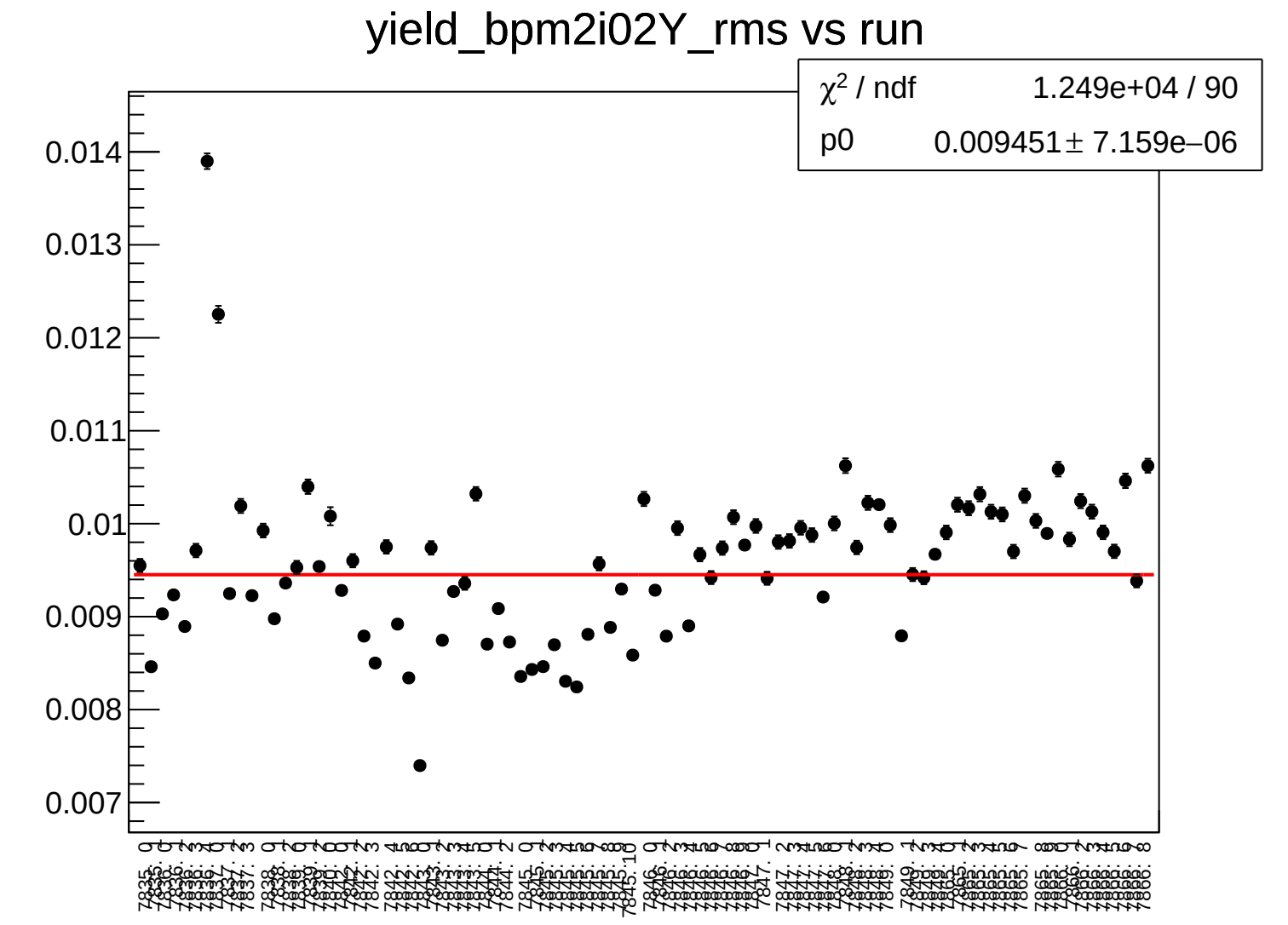

yield_bpm2i02X_mean vs run
χ² / ndf 1.32e+06 / 90
p0 0.08586 ± 1.192e−05
0.11
0.1
0.09
0.08
0.07
0.06
pull
Entries 91
Mean 1388
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

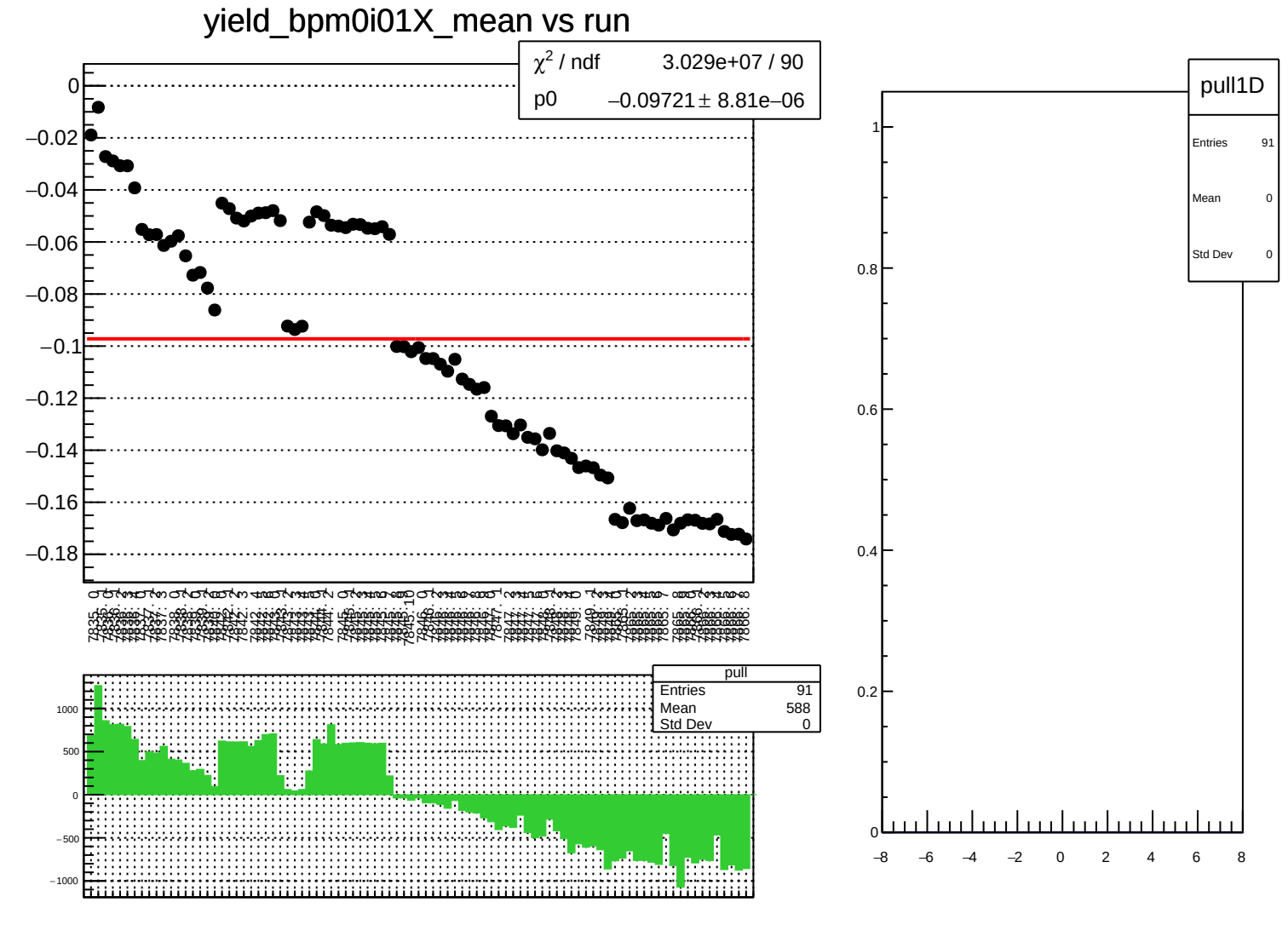

pull1D
Entries 91
Mean 0.9731
Std Dev 2.276
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

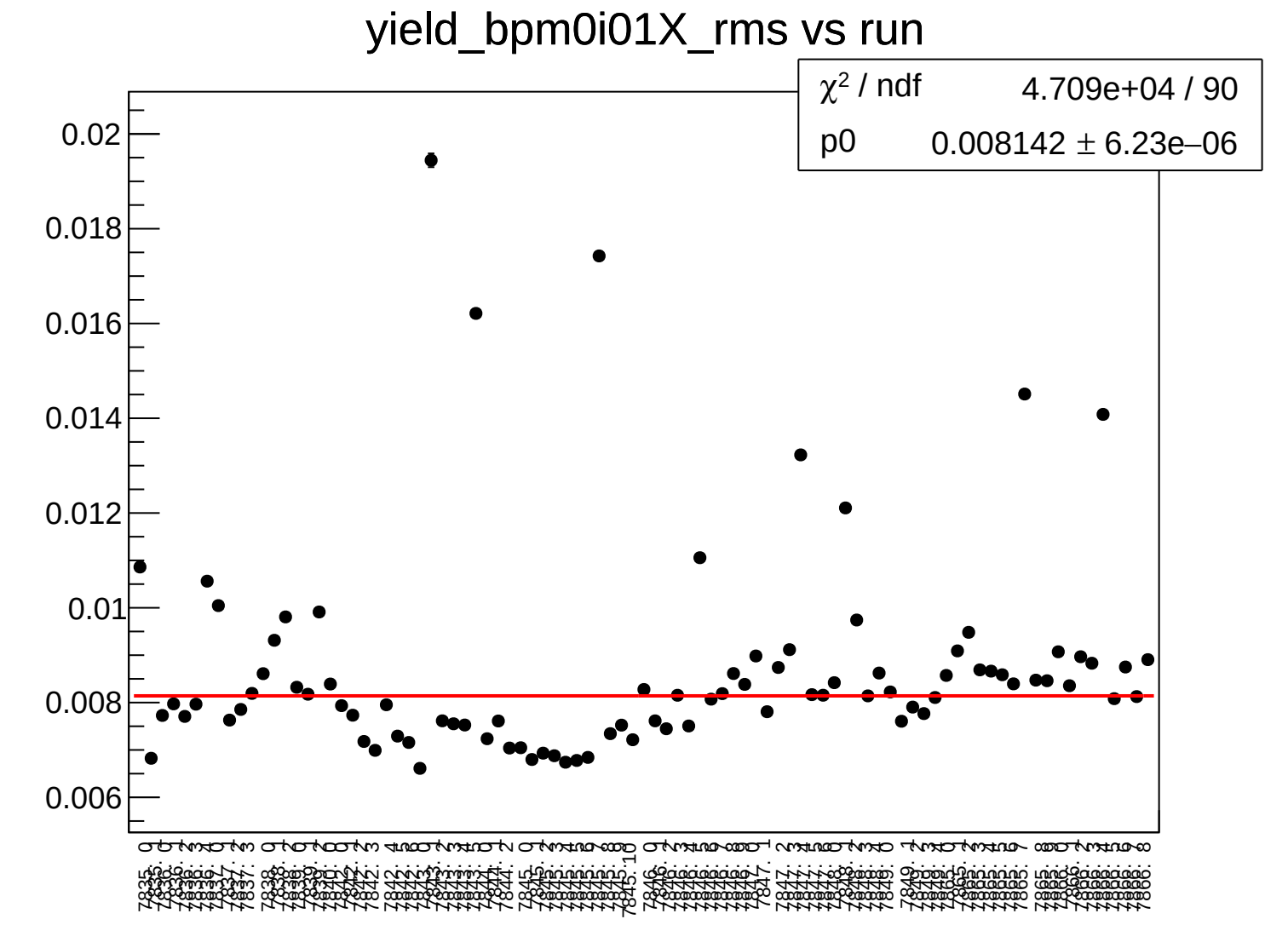

yield_bpm2i02X_rms vs run
χ² / ndf 1.673e+04 / 90
p0 0.01111 ± 8.426e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

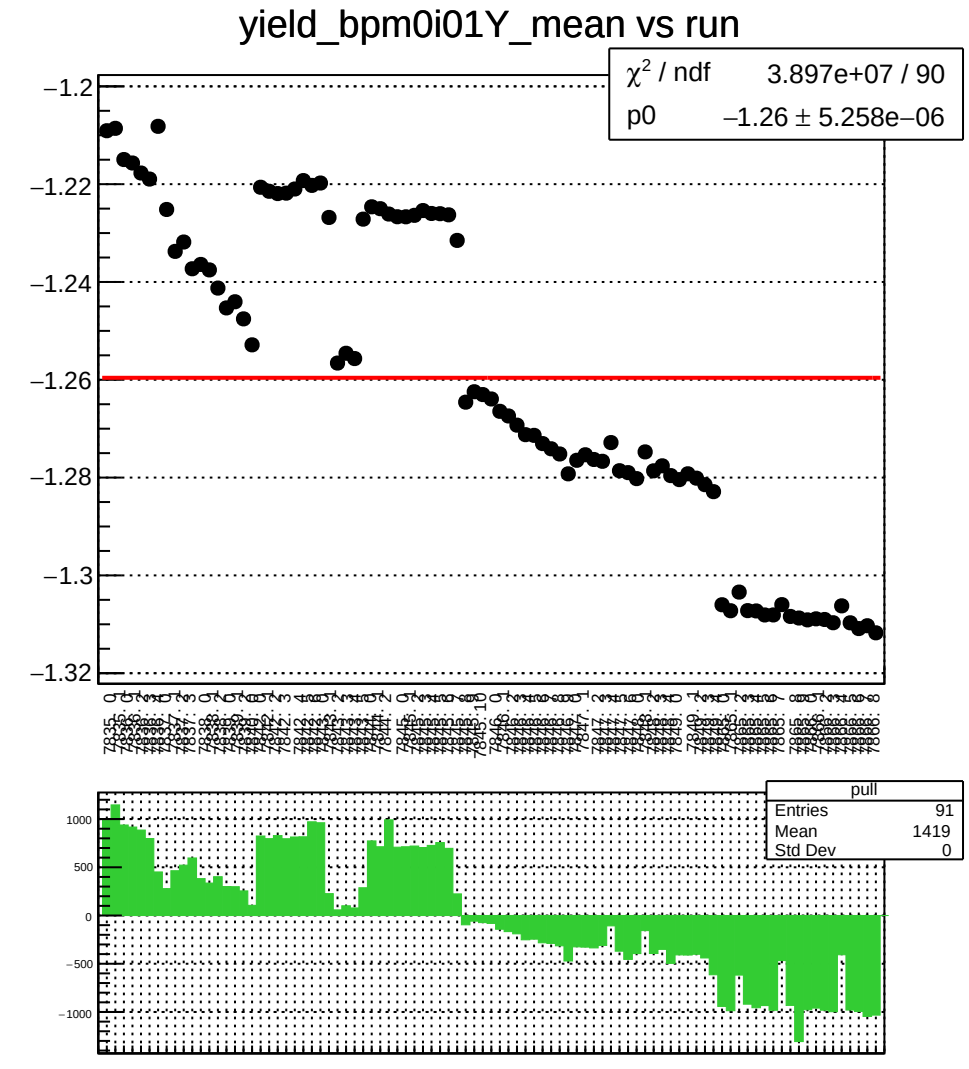

yield_bpm2i02Y_mean vs run
χ² / ndf 1.047e+06 / 90
p0 −1.209 ± 1.012e−05
−1.18
−1.19
−1.2
−1.21
−1.22
−1.23
pull
Entries 91
Mean −334.6
Std Dev 0
200
100
0
−100
−200

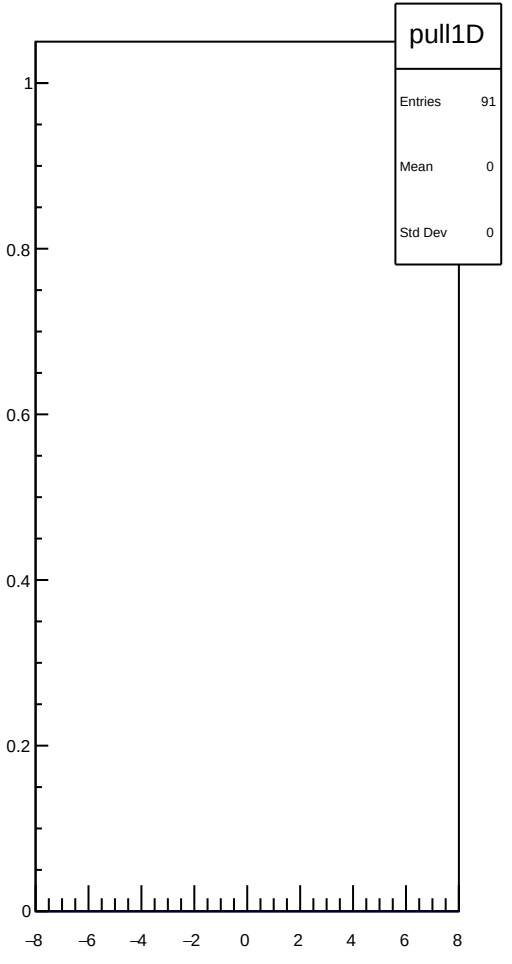

pull1D
Entries 91
Mean 0.6298
Std Dev 3.653
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

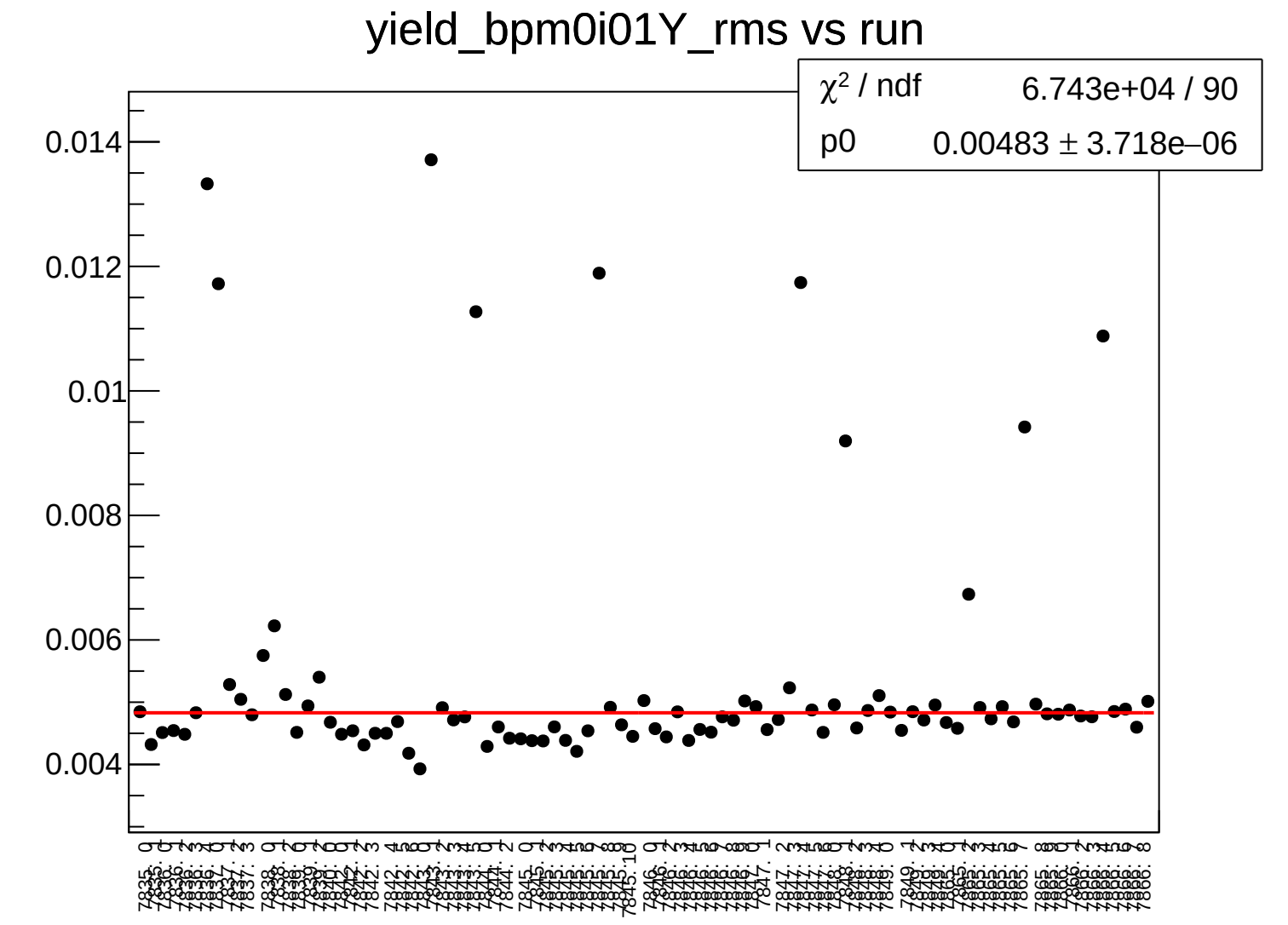

yield_bpm2i02Y_rms vs run
χ² / ndf 1.249e+04 / 90
p0 0.009451 ± 7.159e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

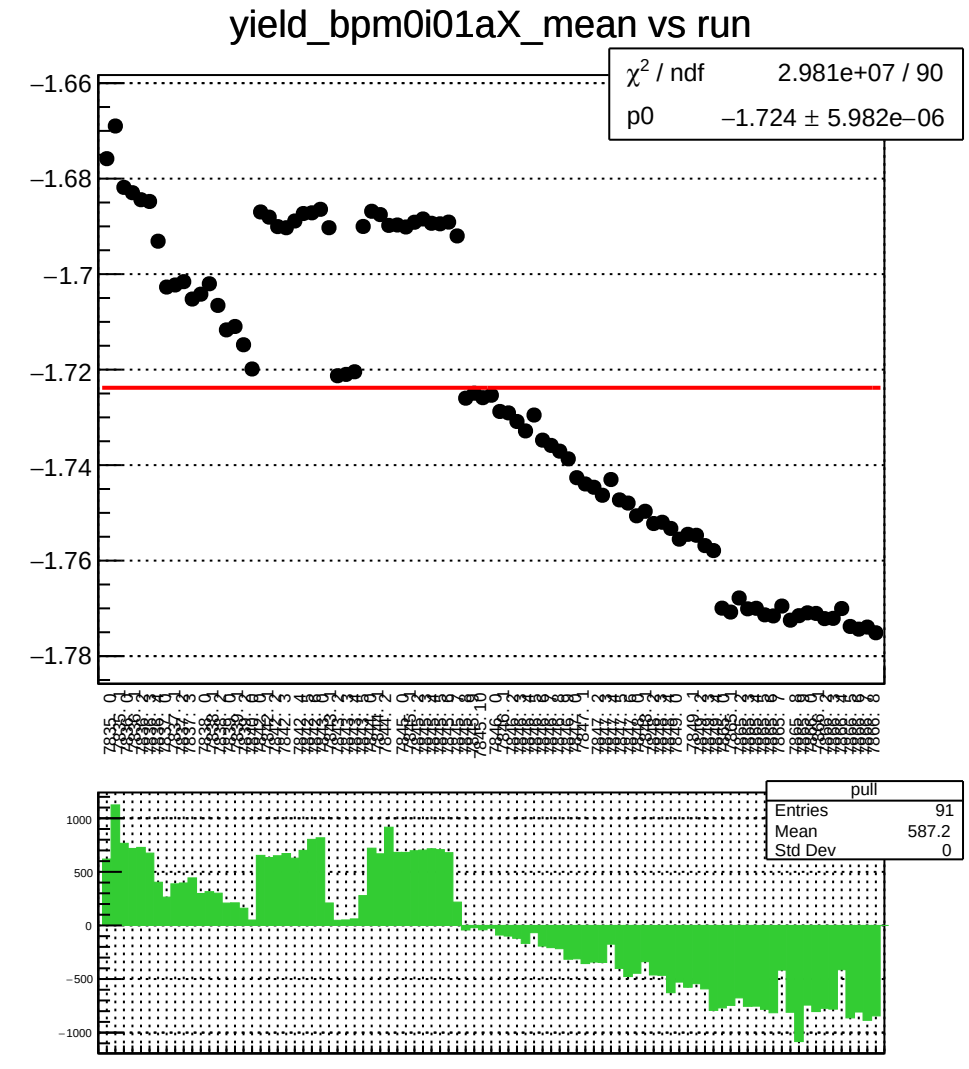

yield_bpm0i01X_mean vs run
χ² / ndf 3.029e+07 / 90
p0 −0.09721 ± 8.81e−06
pull
Entries 91
Mean 588
Std Dev 0
pull1D
Entries 91
Mean 0
Std Dev 0

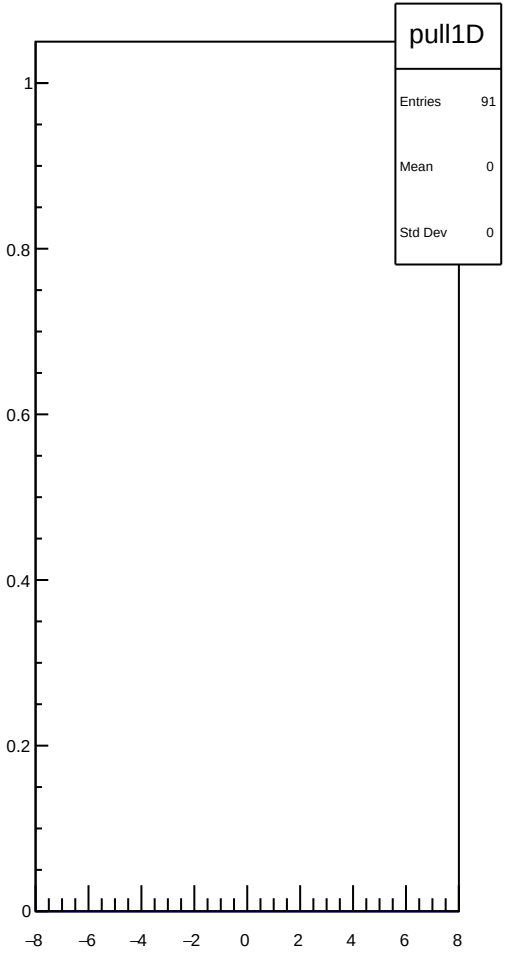

yield_bpm0i01X_rms vs run
χ² / ndf 4.709e+04 / 90
p0 0.008142 ± 6.23e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

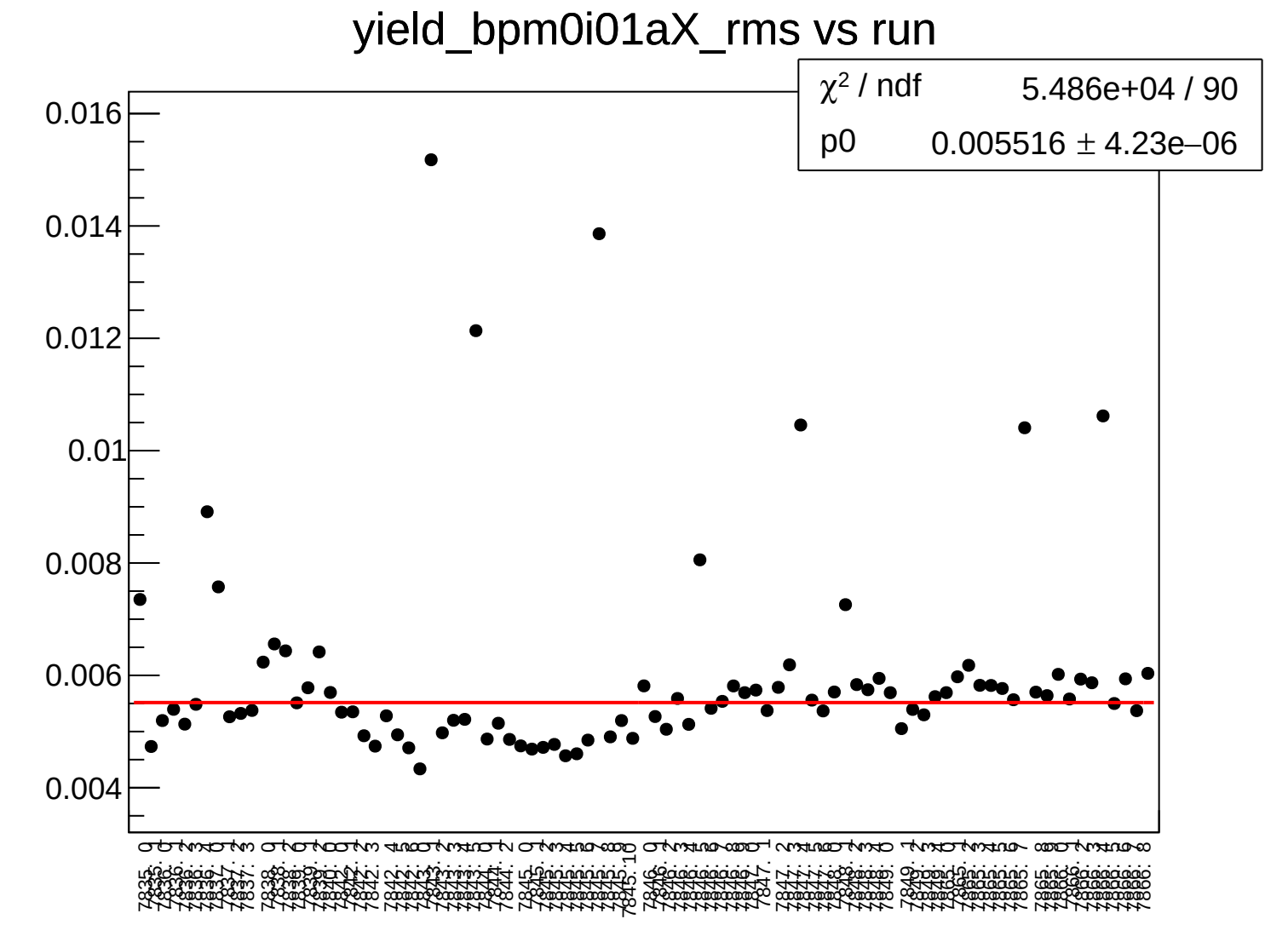

yield_bpm0i01Y_mean vs run
χ² / ndf 3.897e+07 / 90
p0 −1.26 ± 5.258e−06
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
pull
Entries 91
Mean 1419
Std Dev 0
1000
500
0
−500
−1000

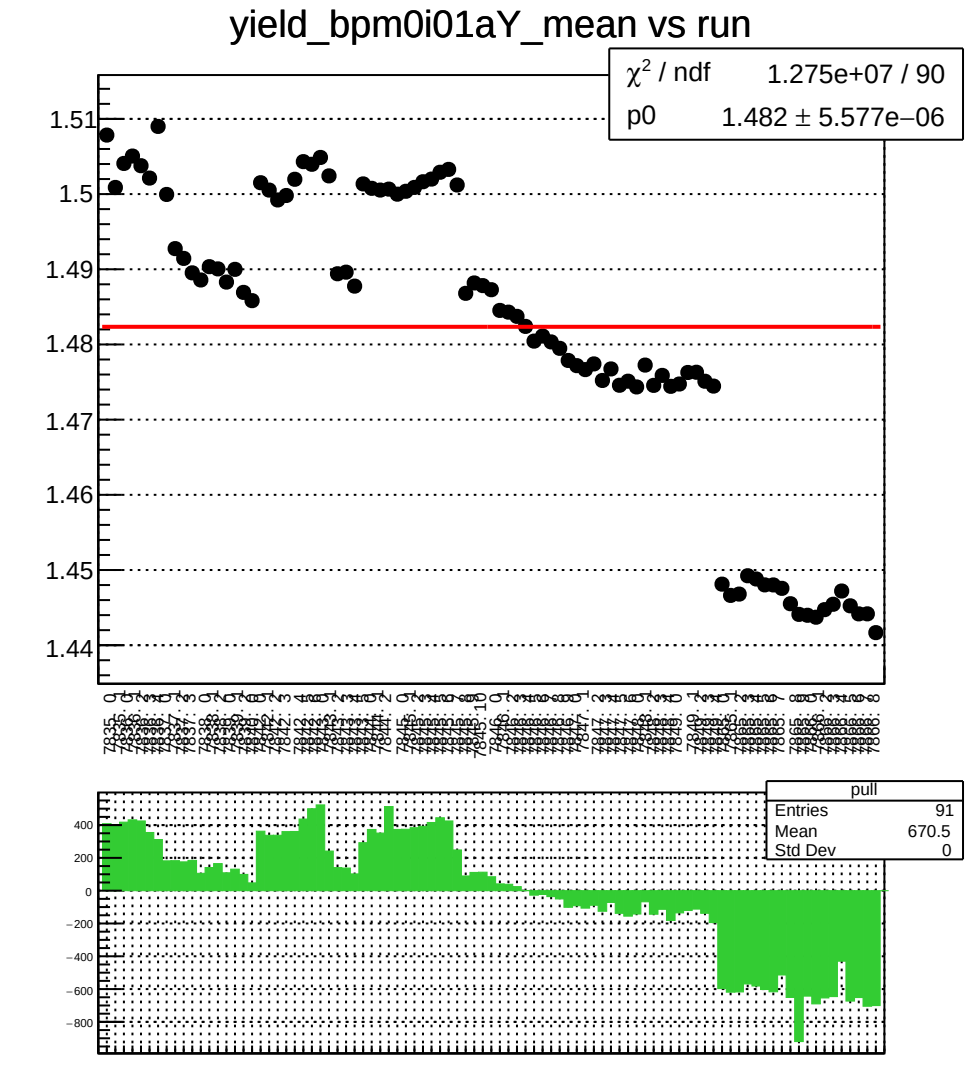

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

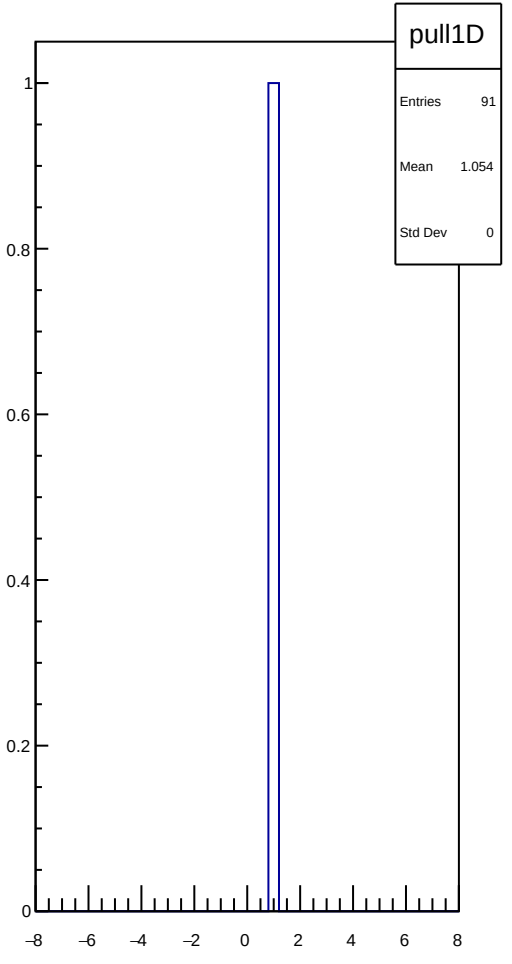

yield_bpm0i01Y_rms vs run
χ² / ndf 6.743e+04 / 90
p0 0.00483 ± 3.718e–06
0.014
0.012
0.01
0.008
0.006
0.004

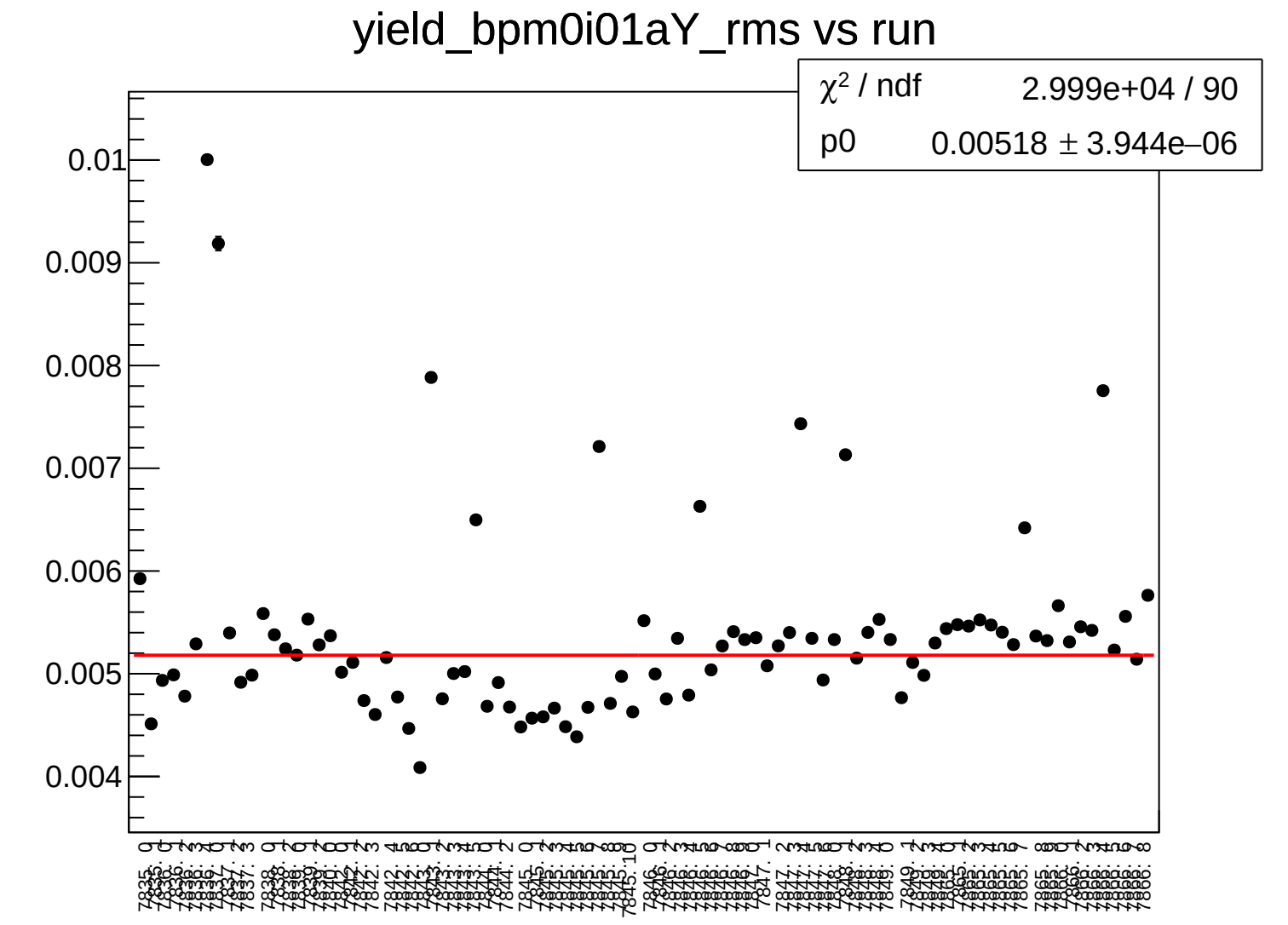

yield_bpm0i01aX_mean vs run
χ² / ndf 2.981e+07 / 90
p0 −1.724 ± 5.982e−06
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
−1.78
pull
Entries 91
Mean 587.2
Std Dev 0
1000
500
0
−500
−1000

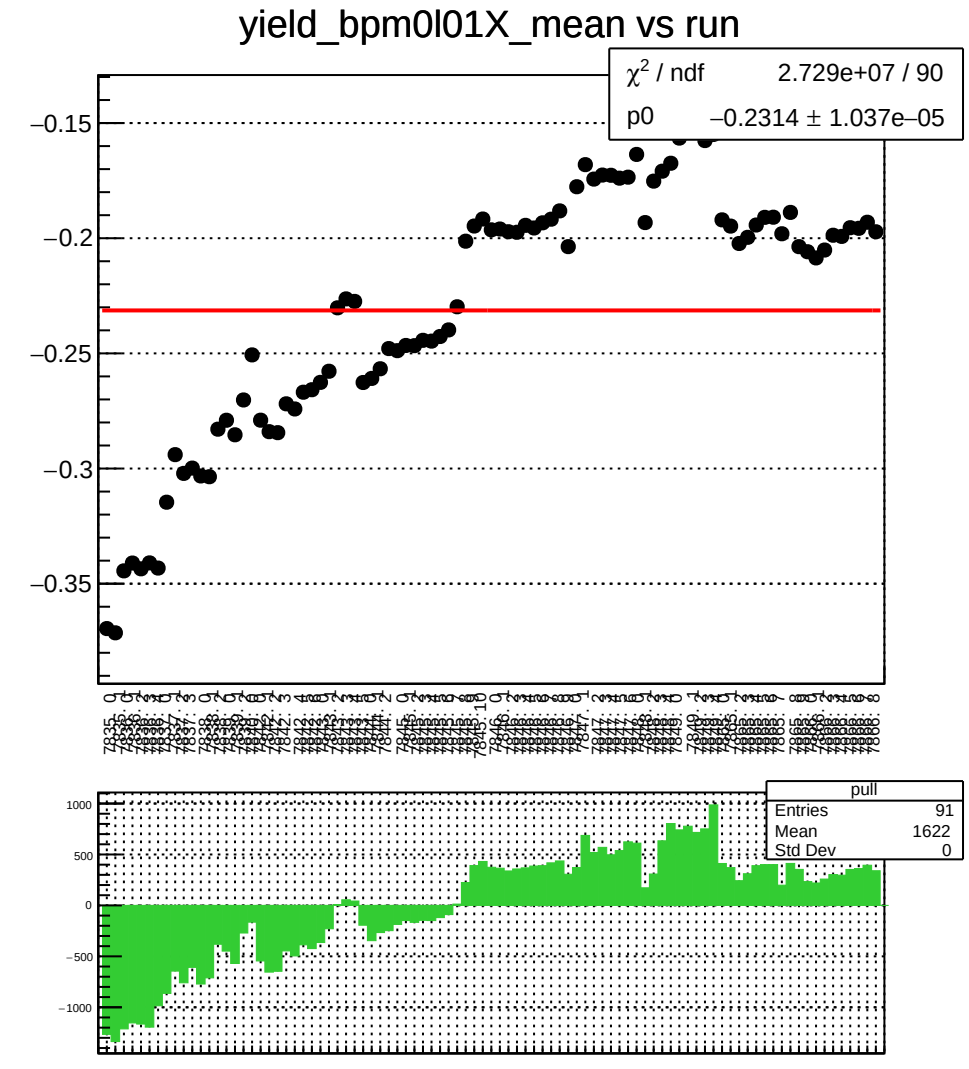

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

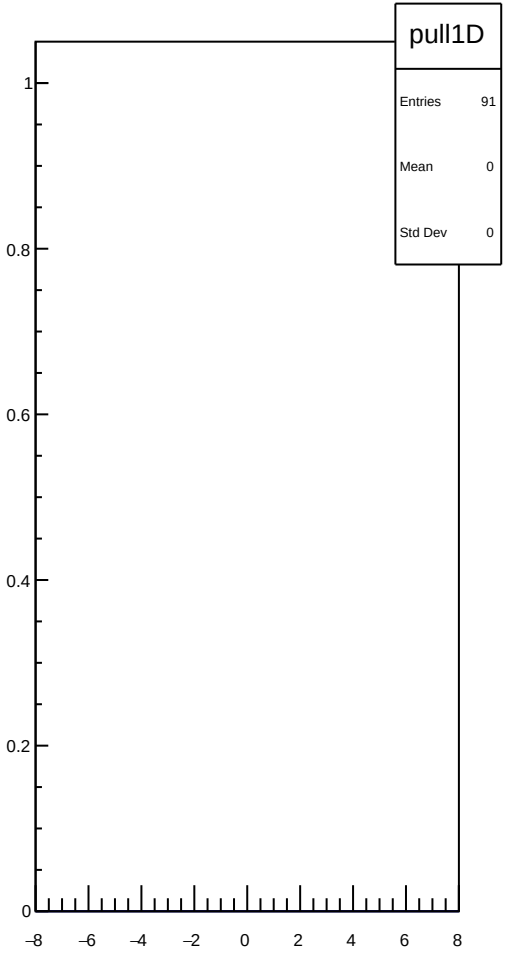

yield_bpm0i01aX_rms vs run
χ² / ndf 5.486e+04 / 90
p0 0.005516 ± 4.23e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

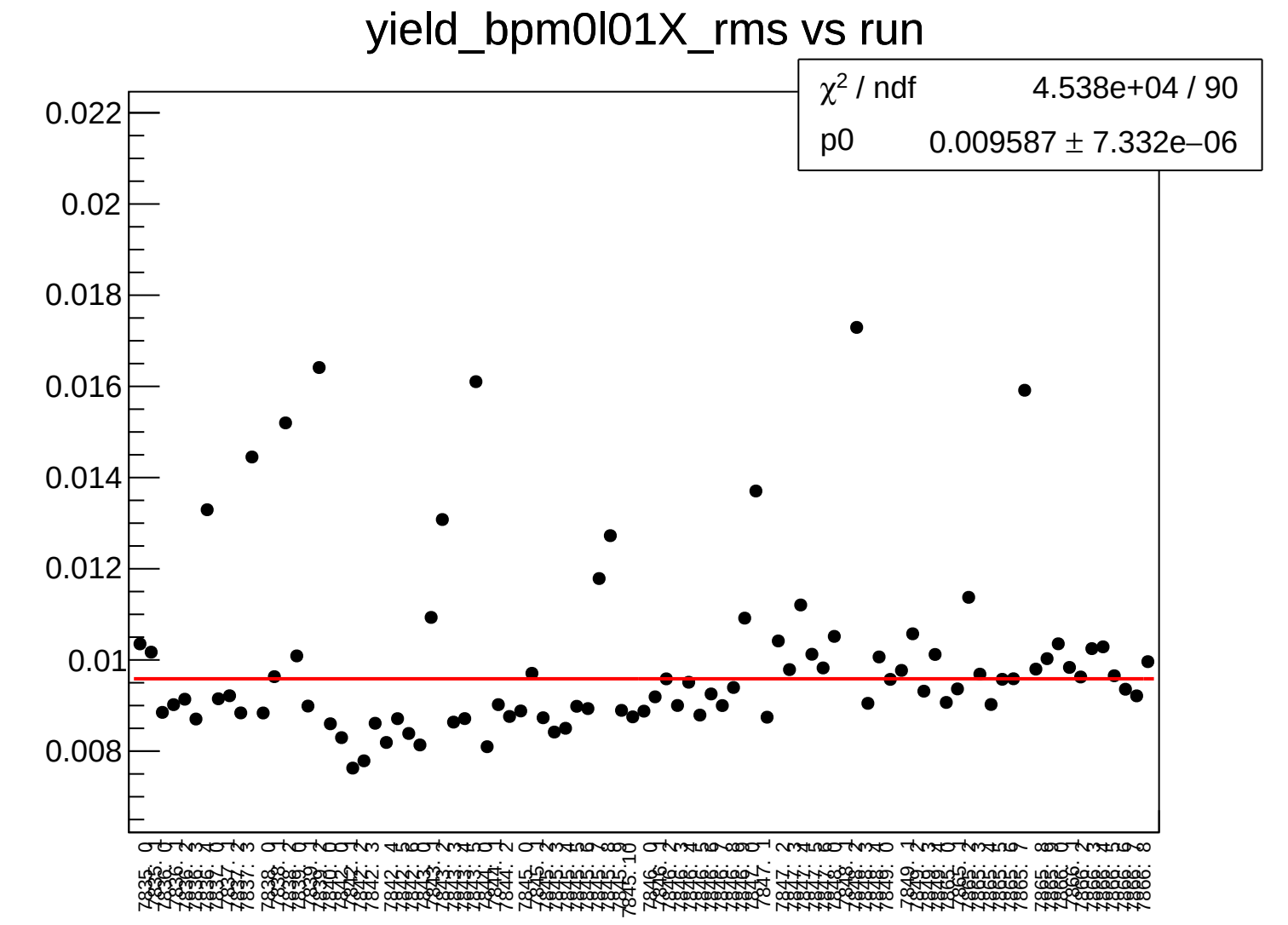

yield_bpm0i01aY_mean vs run
χ² / ndf 1.275e+07 / 90
p0 1.482 ± 5.577e−06
1.51
1.5
1.49
1.48
1.47
1.46
1.45
1.44
pull
Entries 91
Mean 670.5
Std Dev 0
400
200
0
−200
−400
−600
−800

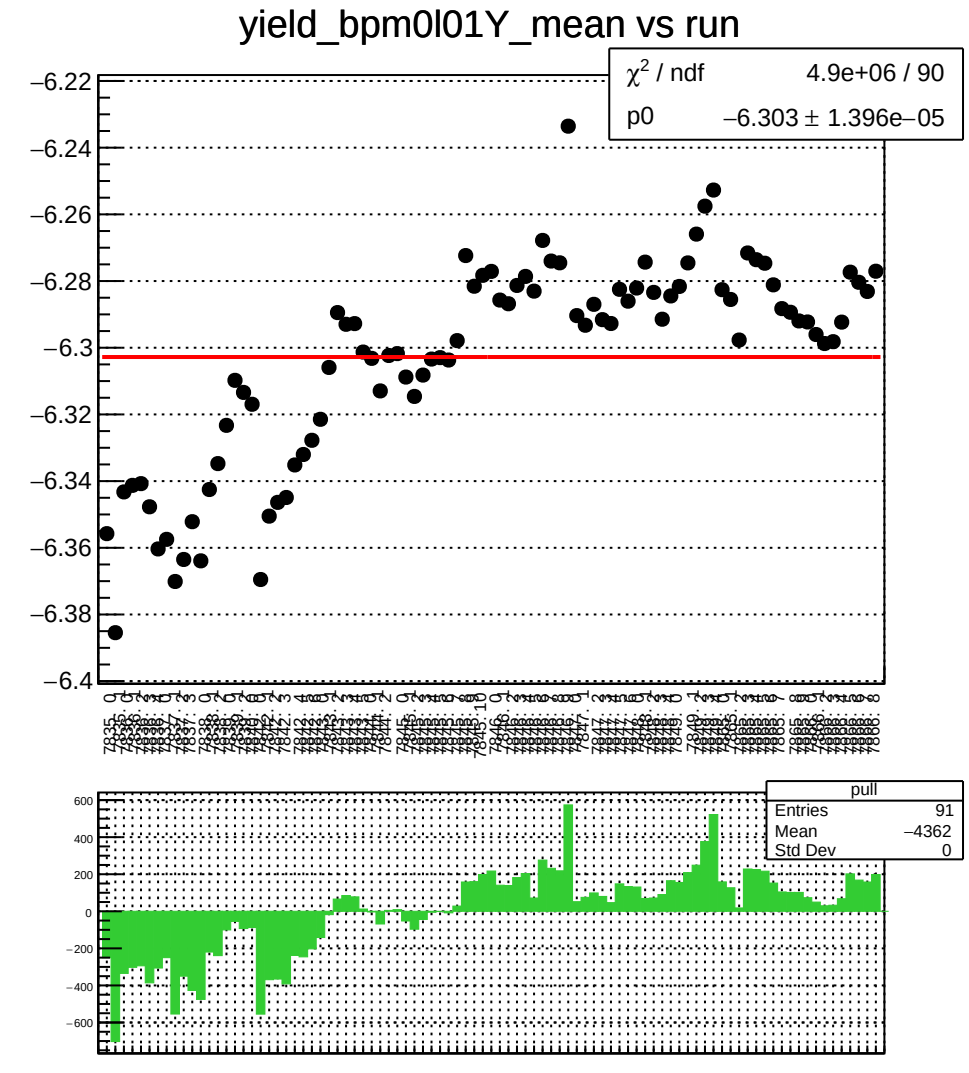

pull1D
Entries 91
Mean 1.054
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

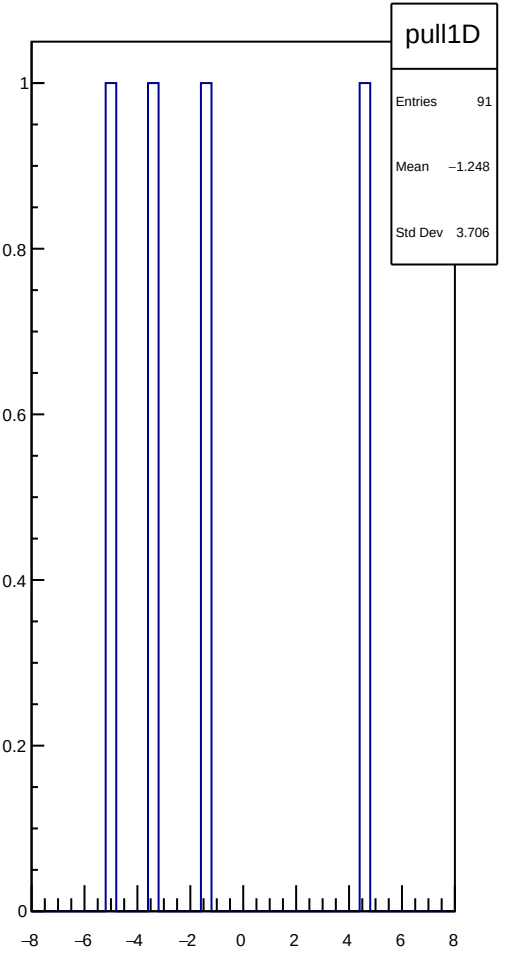

yield_bpm0i01aY_rms vs run
χ² / ndf 2.999e+04 / 90
p0 0.00518 ± 3.944e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

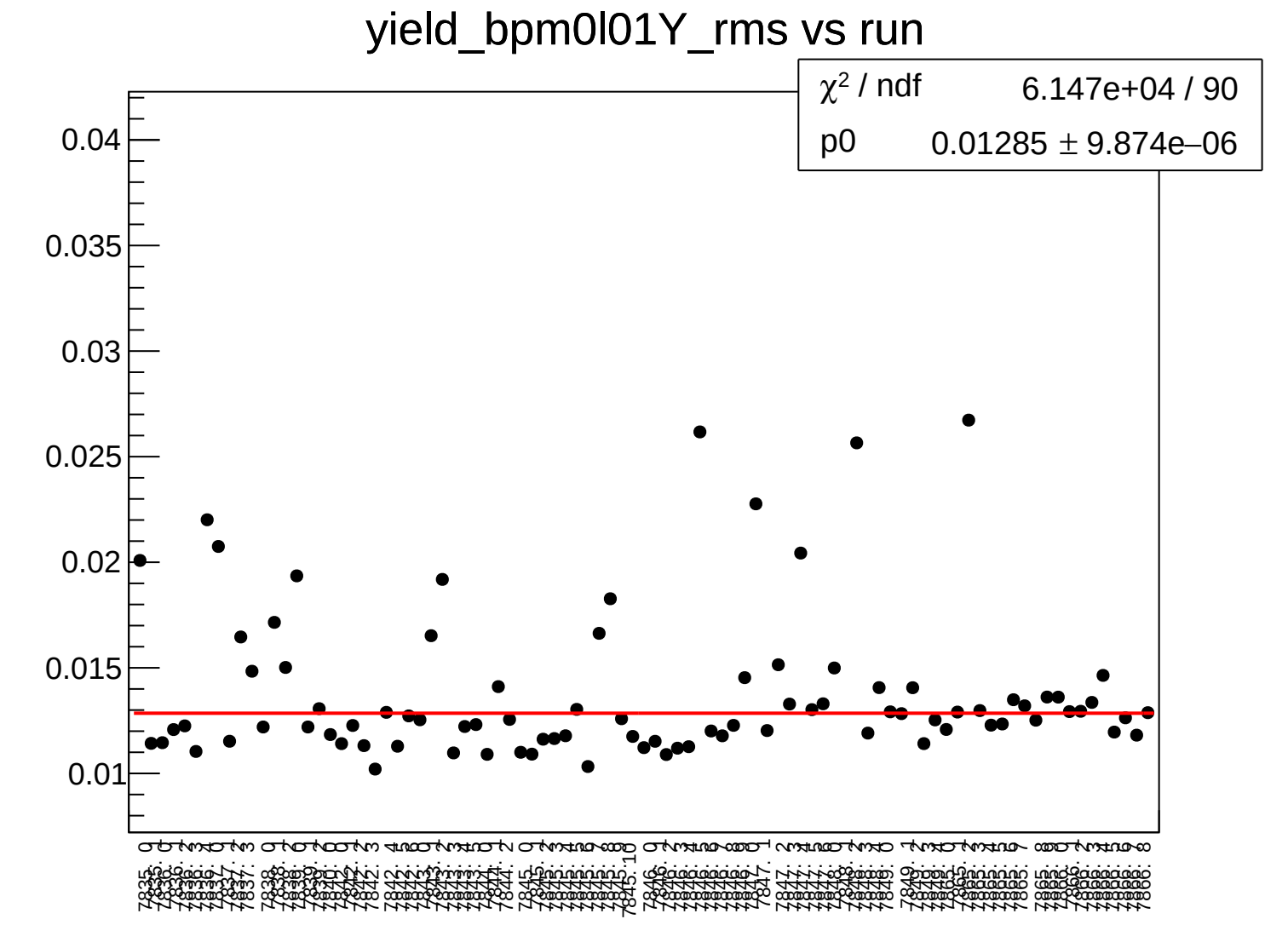

yield_bpm0l01X_mean vs run
χ² / ndf 2.729e+07 / 90
p0 −0.2314 ± 1.037e−05
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 91
Mean 1622
Std Dev 0
1000
500
0
−500
−1000

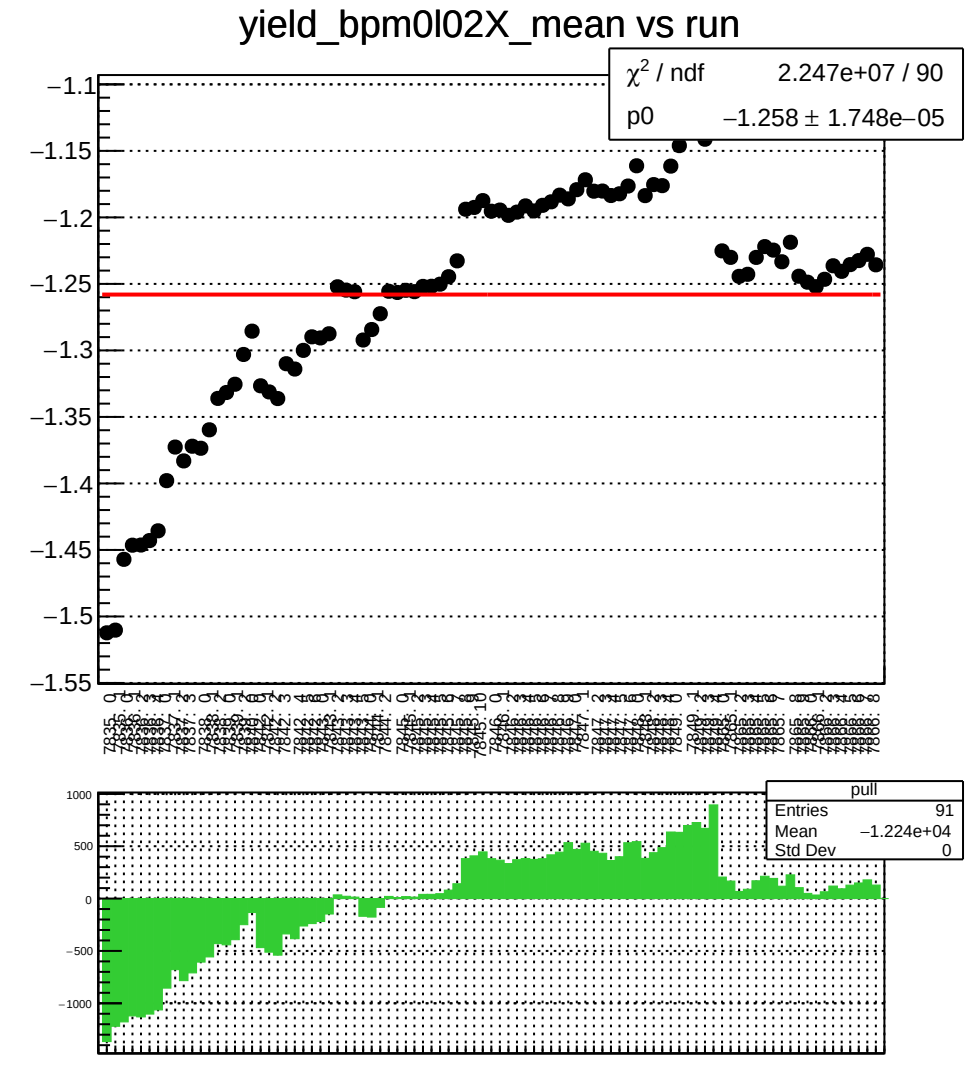

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

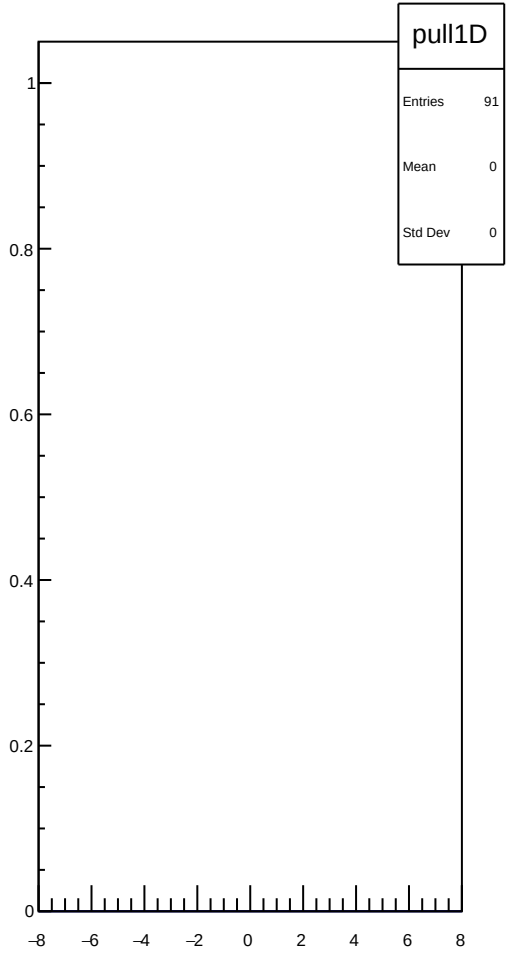

yield_bpm0l01X_rms vs run
χ² / ndf 4.538e+04 / 90
p0 0.009587 ± 7.332e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

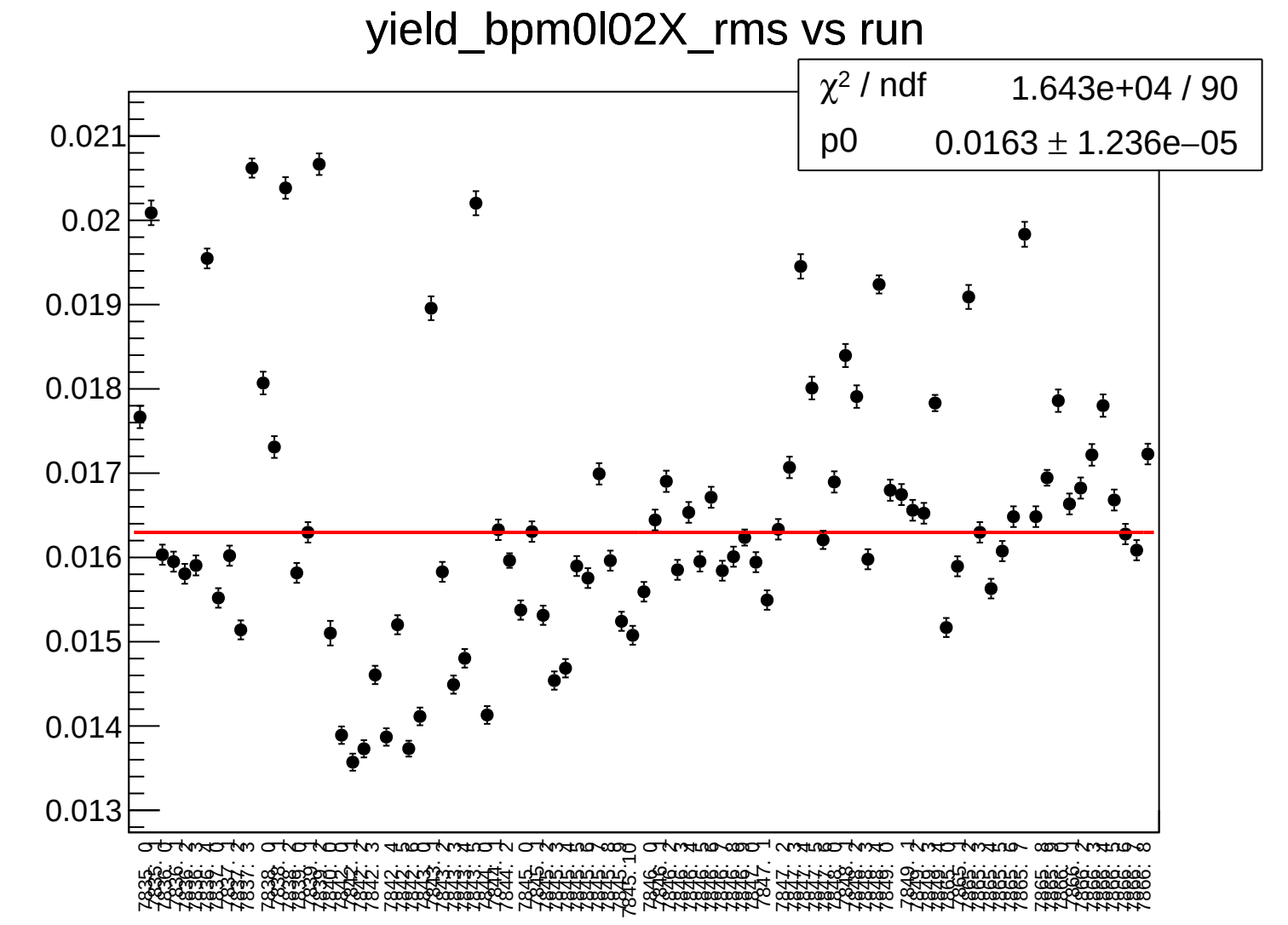

yield_bpm0l01Y_mean vs run
χ² / ndf 4.9e+06 / 90
p0 −6.303 ± 1.396e−05
−6.22
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
pull
Entries 91
Mean −4362
Std Dev 0
600
400
200
0
−200
−400
−600

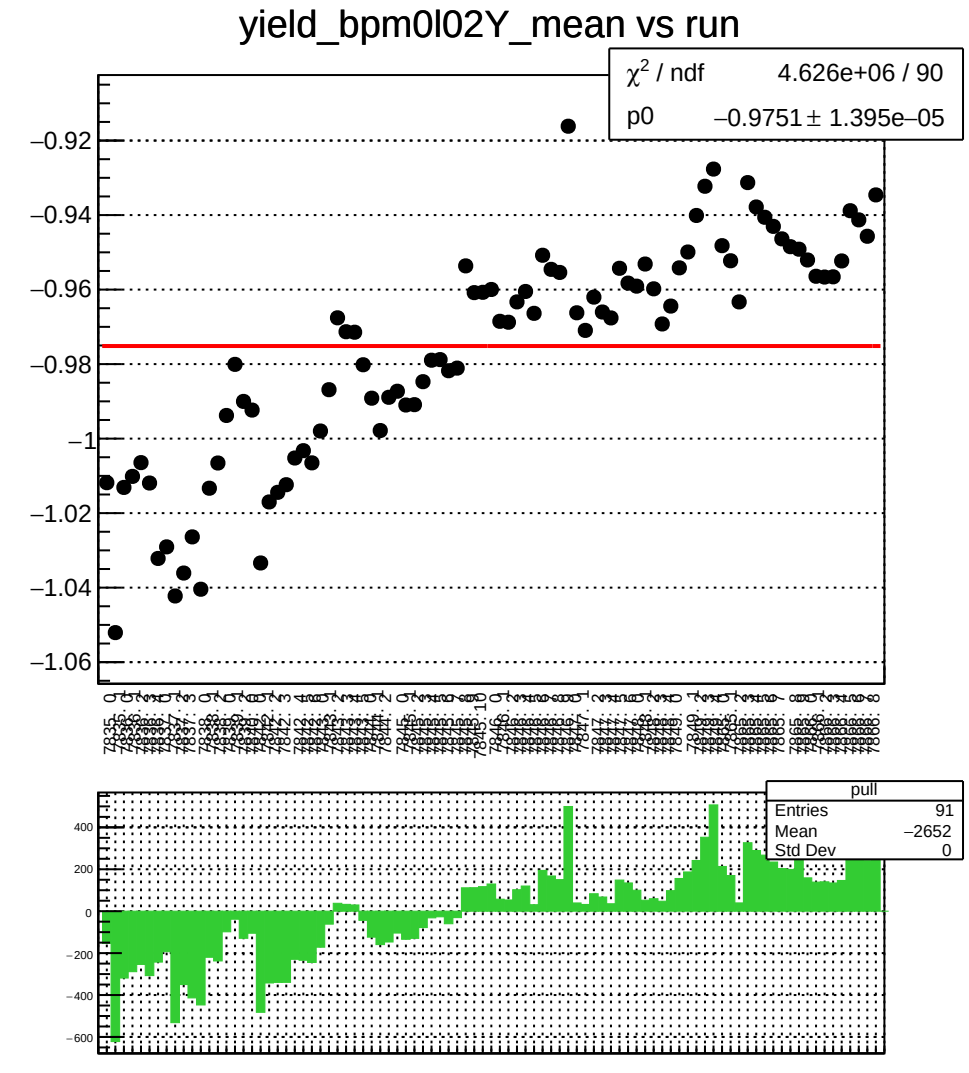

pull1D
Entries 91
Mean −1.248
Std Dev 3.706
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

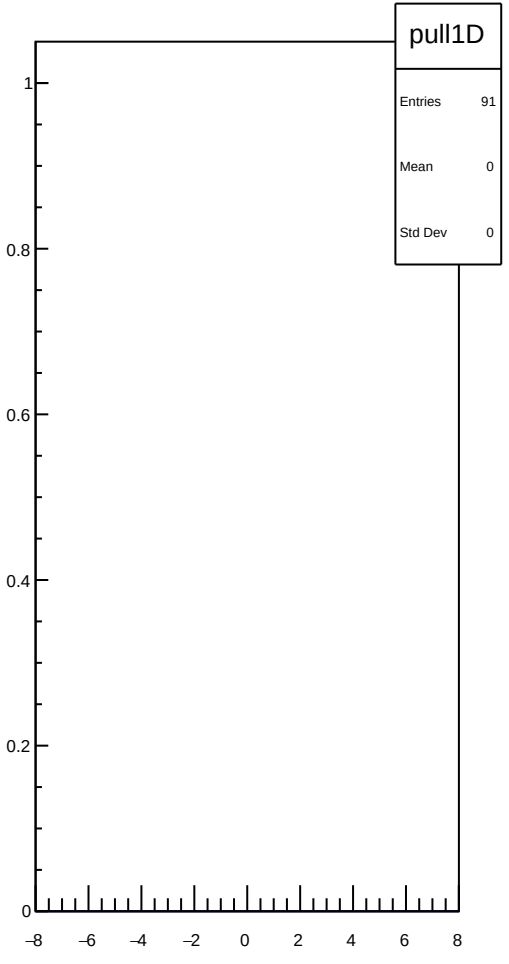

yield_bpm0l01Y_rms vs run
χ² / ndf 6.147e+04 / 90
p0 0.01285 ± 9.874e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01


yield_bpm0l02X_mean vs run
χ² / ndf 2.247e+07 / 90
p0 −1.258 ± 1.748e−05
pull
Entries 91
Mean −1.224e+04
Std Dev 0

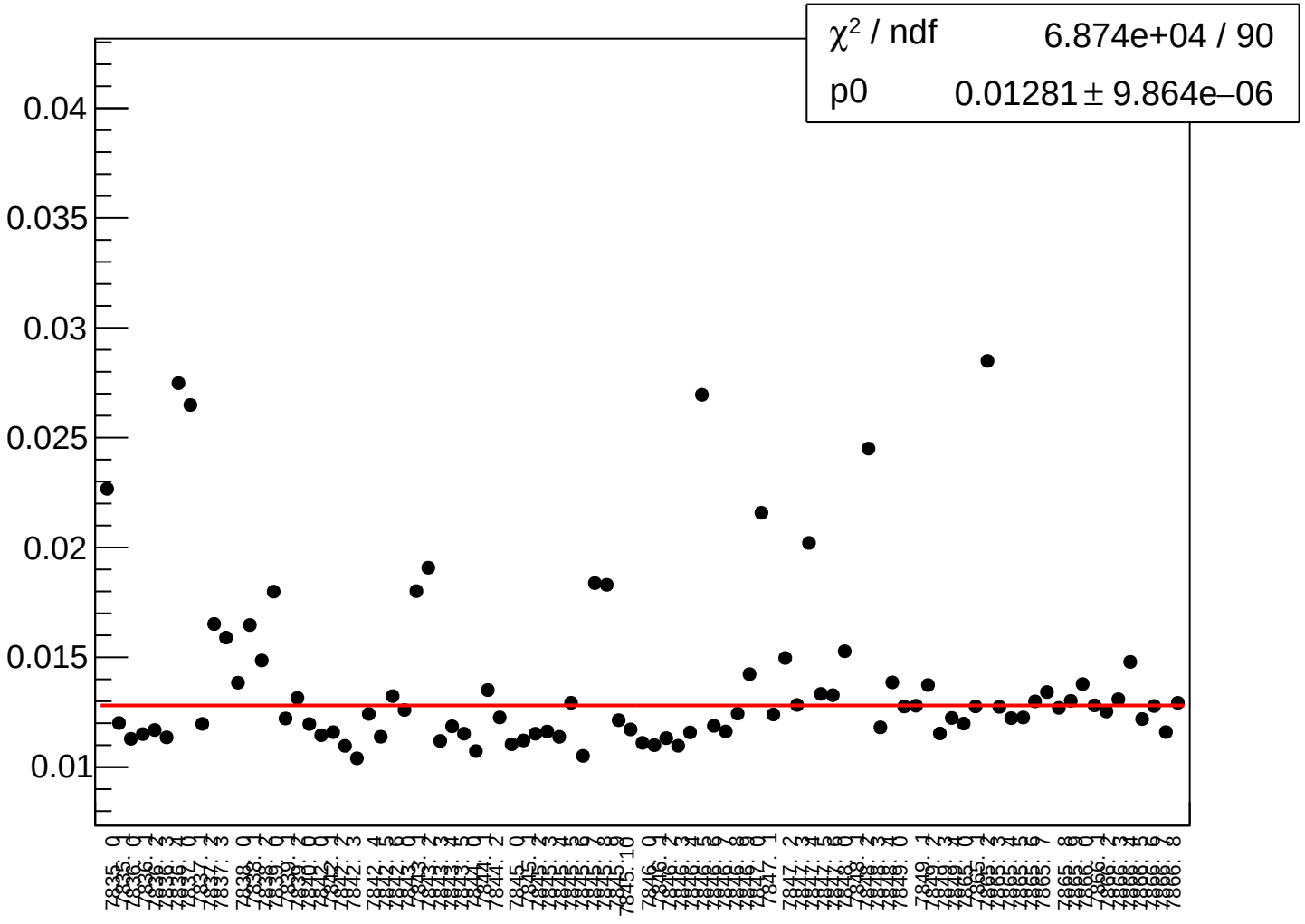

pull1D
Entries 91
Mean 0
Std Dev 0

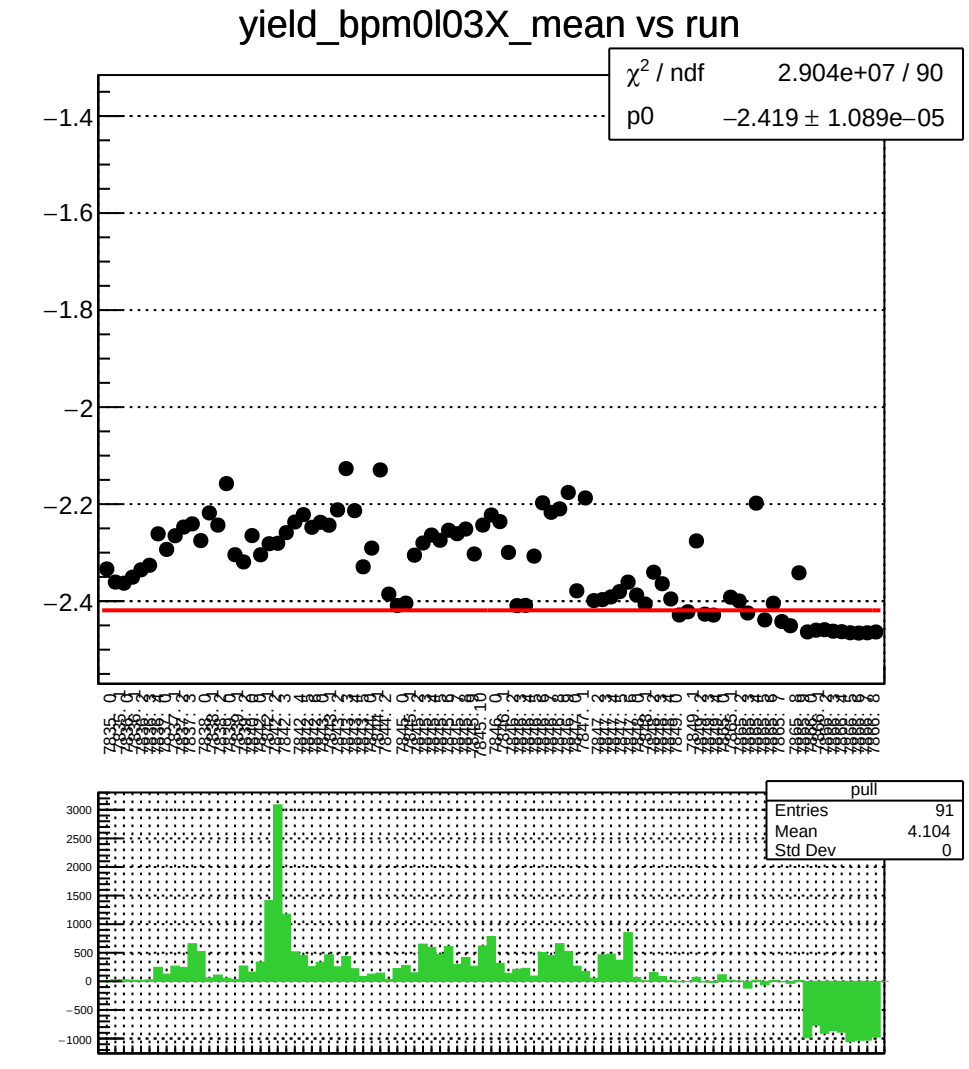

yield_bpm0l02X_rms vs run
χ² / ndf 1.643e+04 / 90
p0 0.0163 ± 1.236e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

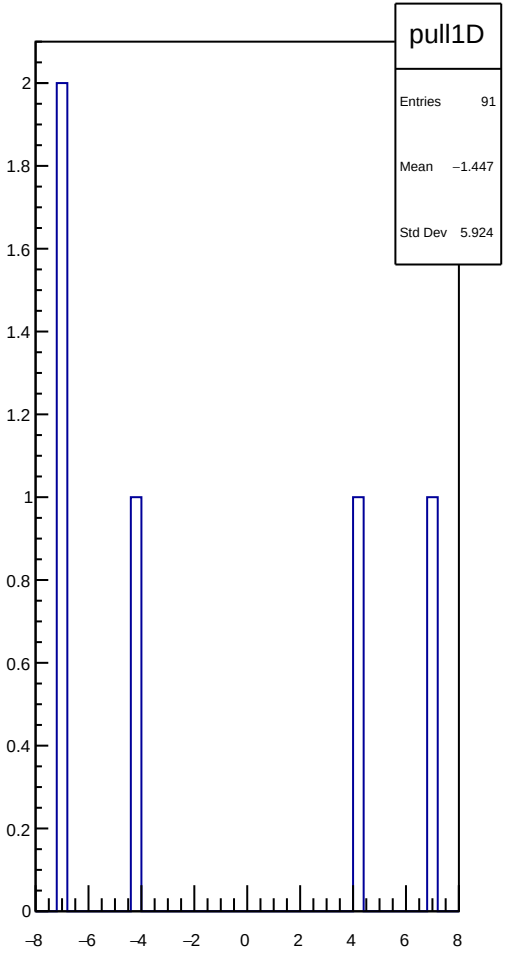

yield_bpm0l02Y_mean vs run
χ² / ndf 4.626e+06 / 90
p0 −0.9751 ± 1.395e−05
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
pull
Entries 91
Mean −2652
Std Dev 0
400
200
0
−200
−400
−600

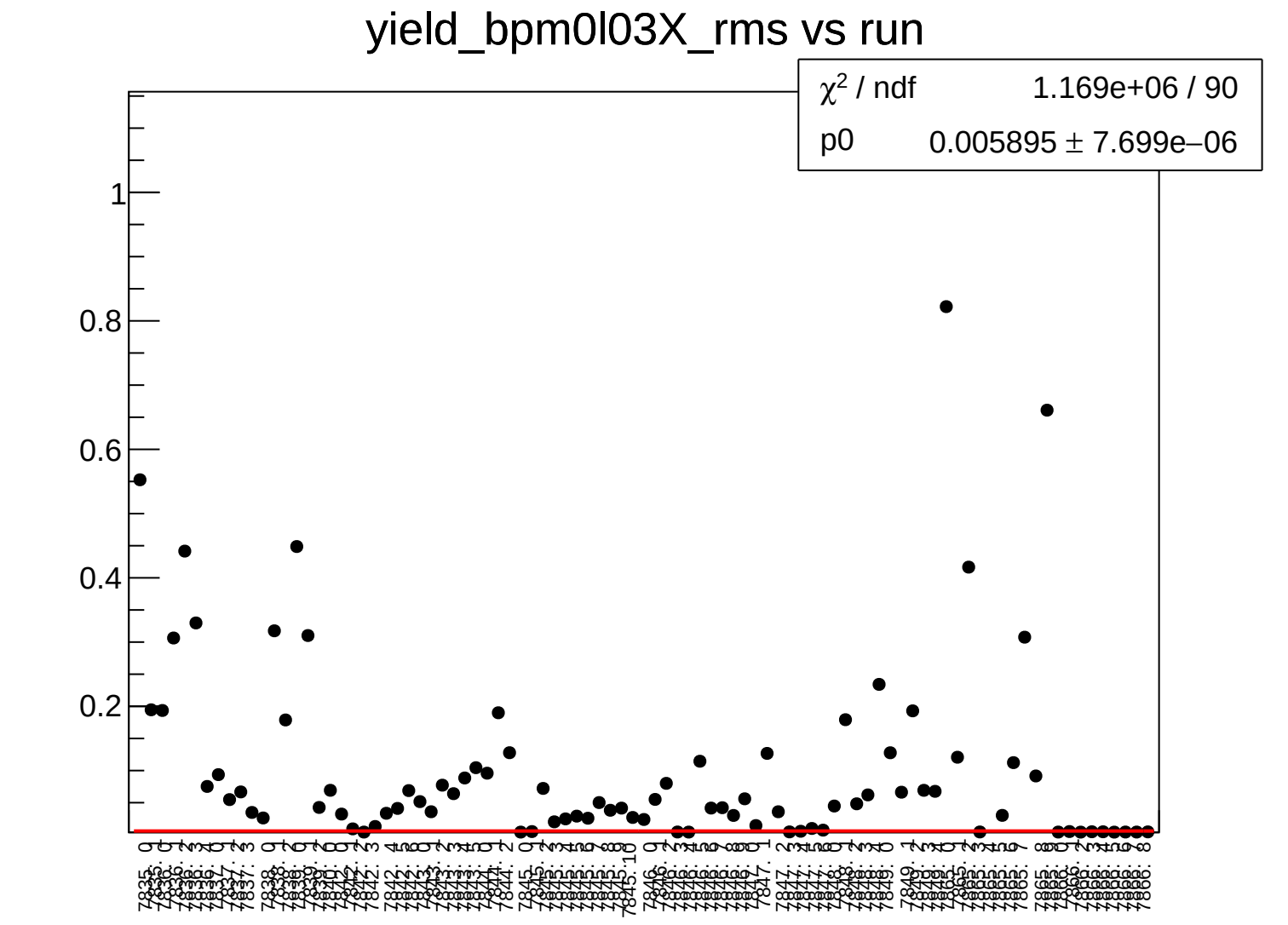

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

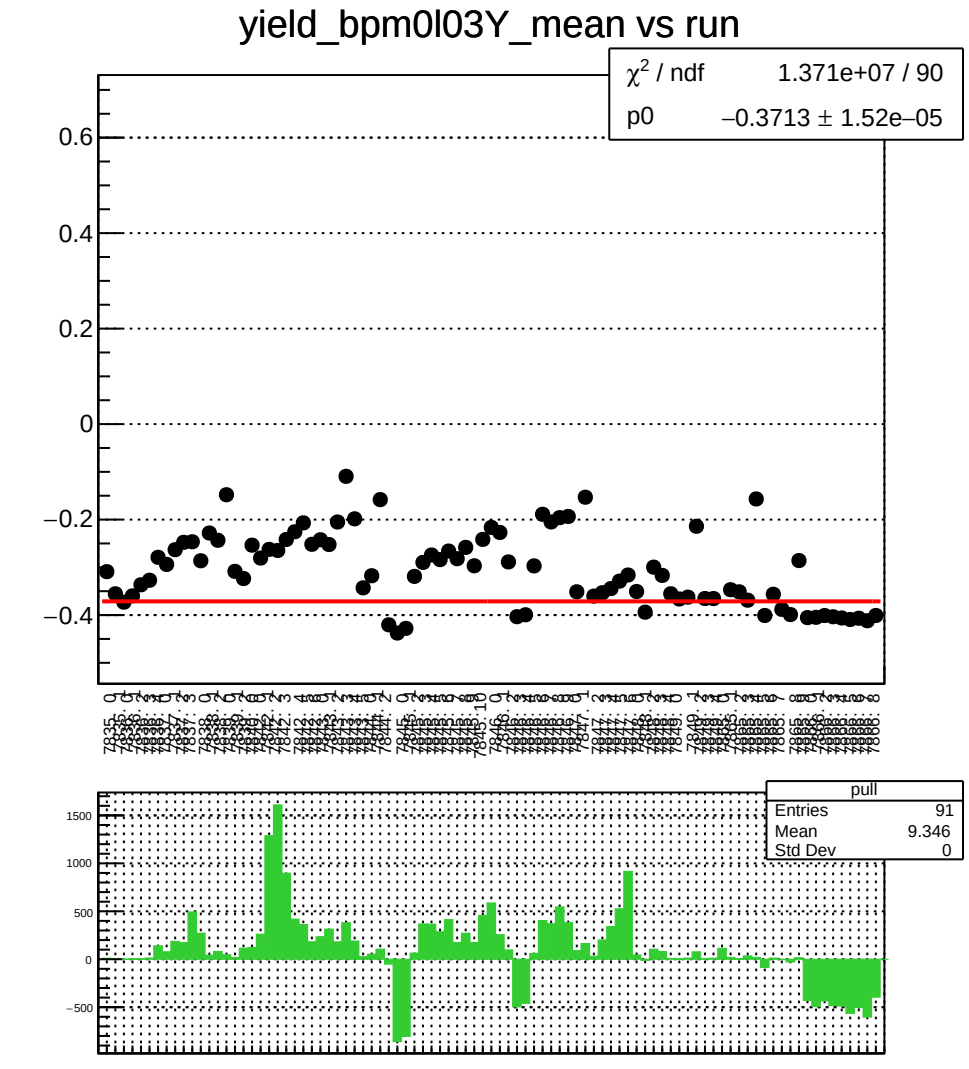
yield_bpm0l02Y_rms vs run

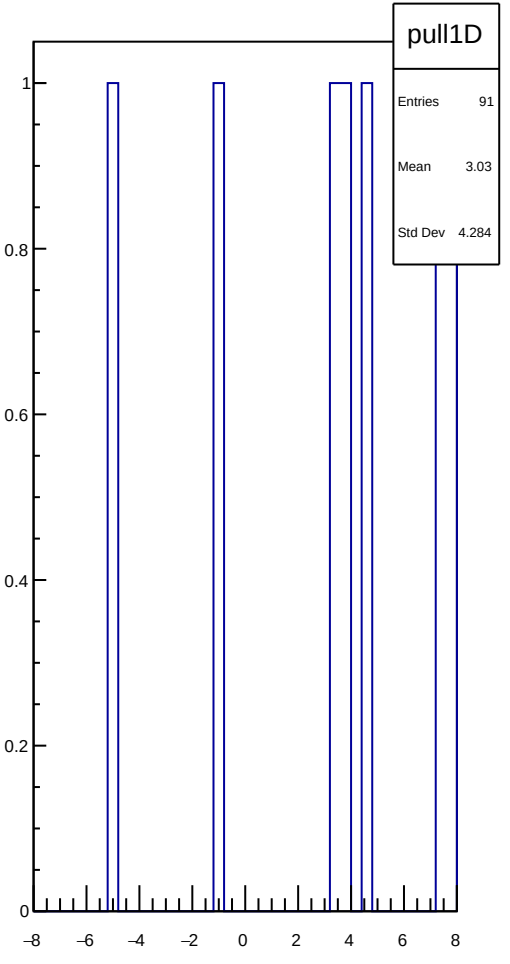


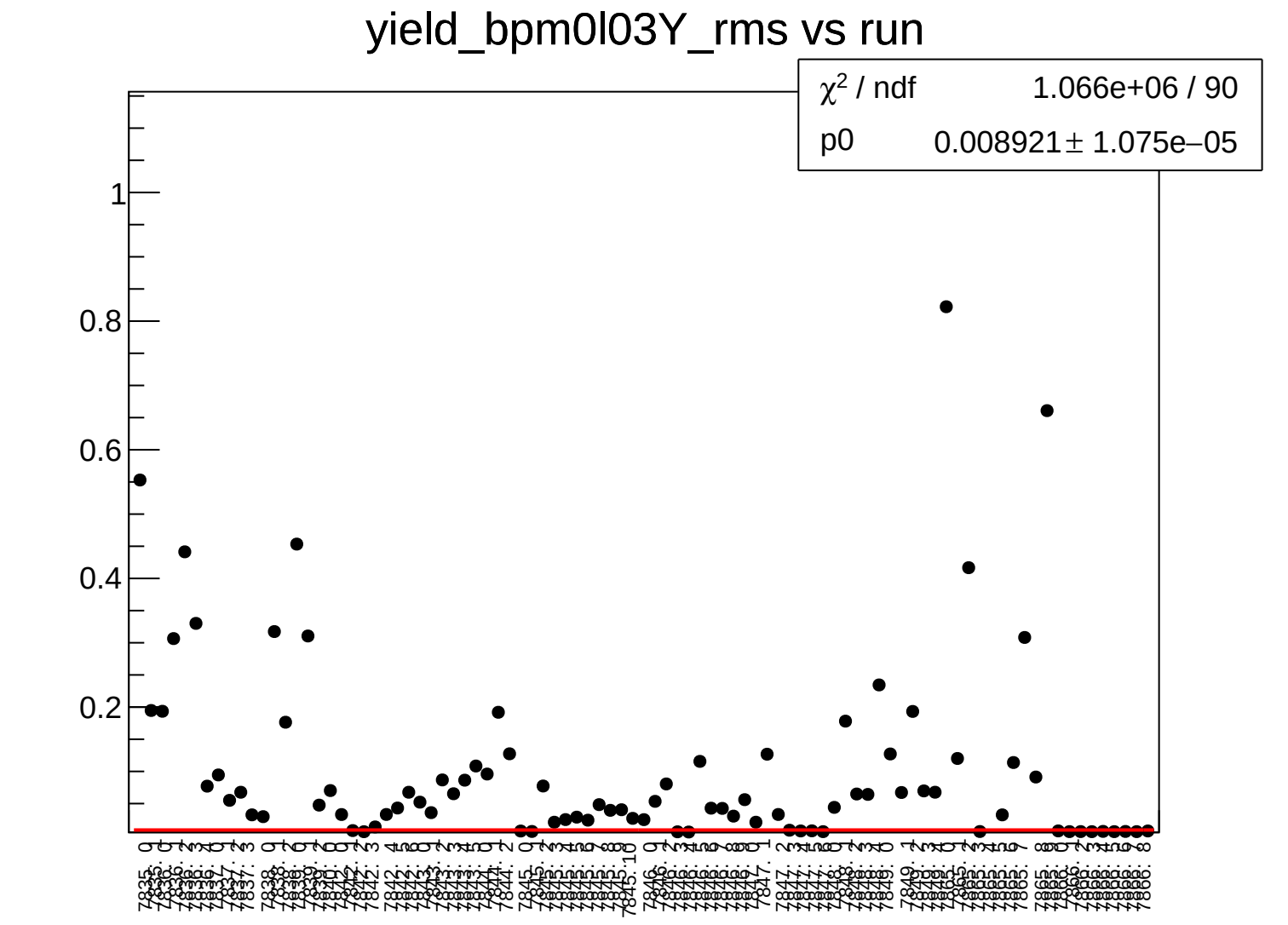

yield_bpm0l03X_mean vs run
χ² / ndf 2.904e+07 / 90
p0 −2.419 ± 1.089e−05
−1.4
−1.6
−1.8
−2
−2.2
−2.4
pull
Entries 91
Mean 4.104
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

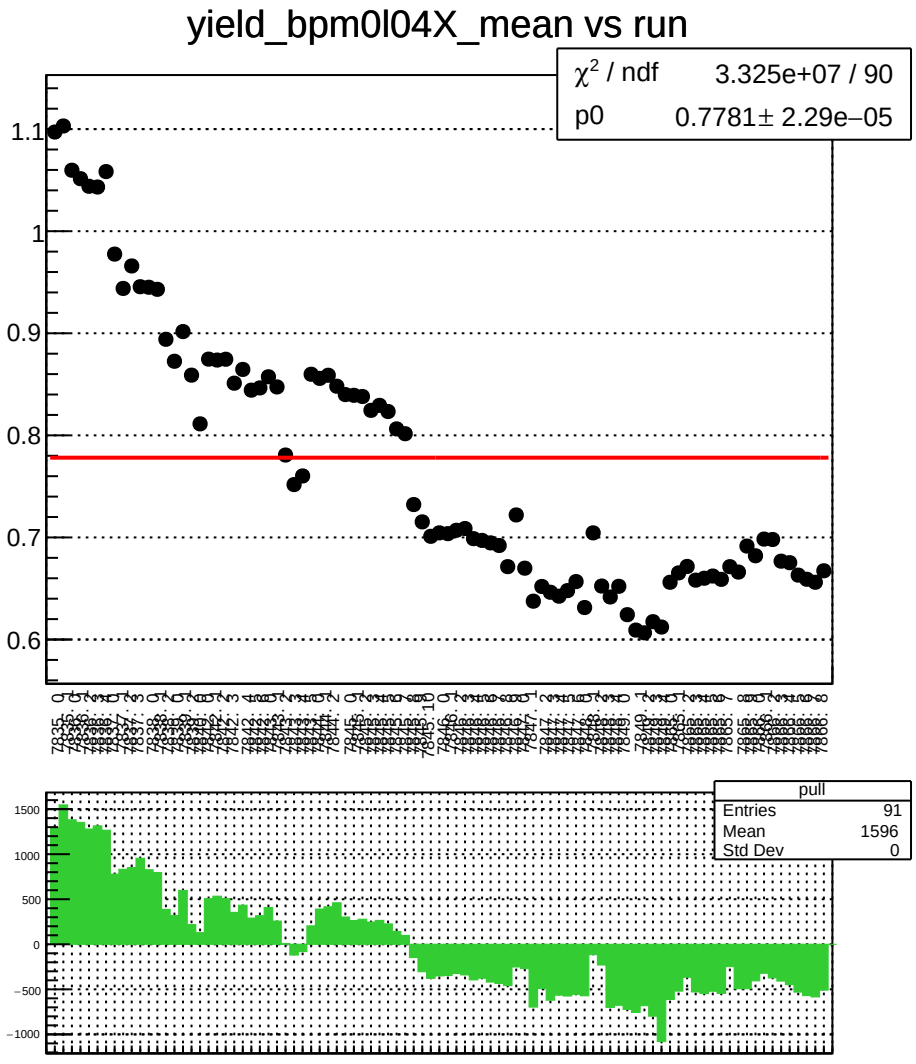

pull1D
Entries 91
Mean −1.447
Std Dev 5.924
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

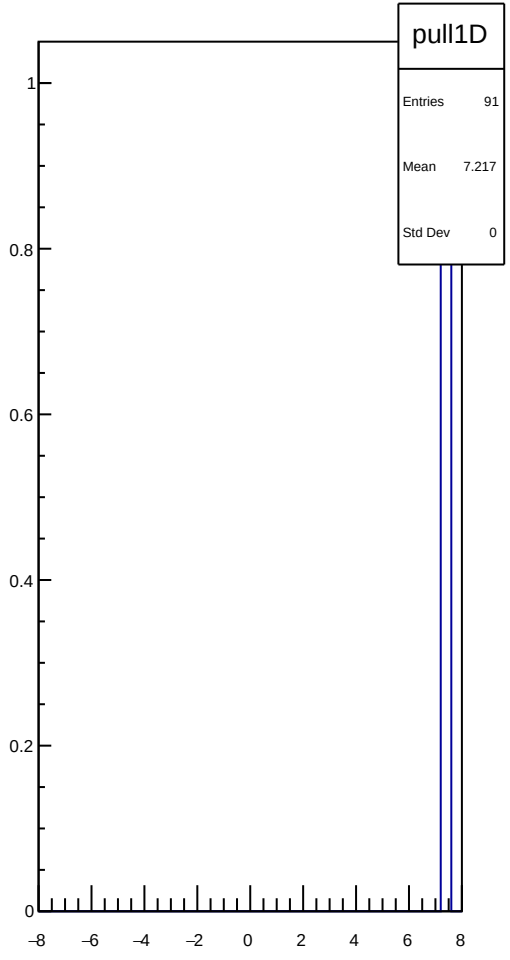

yield_bpm0l03X_rms vs run
χ² / ndf 1.169e+06 / 90
p0 0.005895 ± 7.699e−06
1
0.8
0.6
0.4
0.2

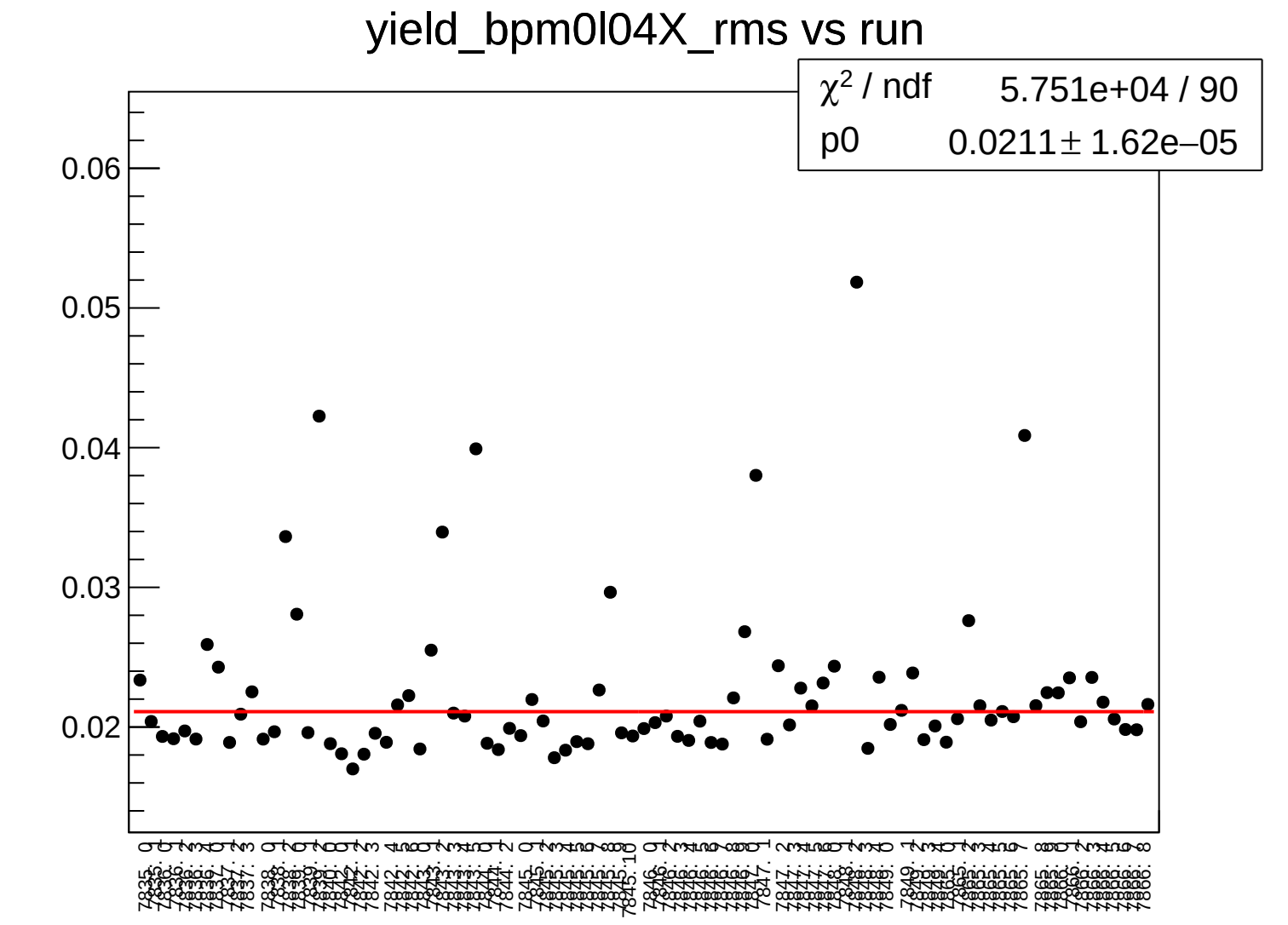

yield_bpm0l03Y_mean vs run
χ² / ndf 1.371e+07 / 90
p0 −0.3713 ± 1.52e−05
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 9.346
Std Dev 0
1500
1000
500
0
−500

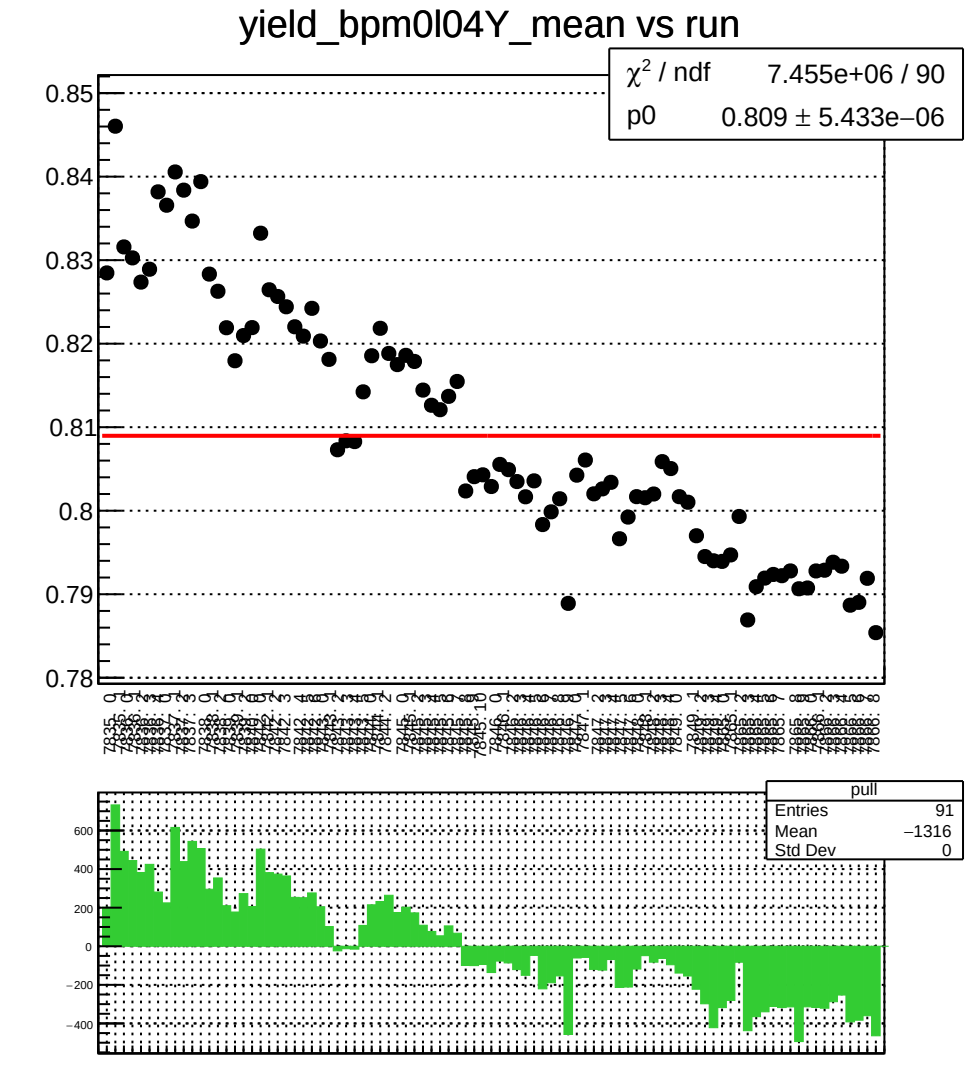

pull1D
Entries 91
Mean 3.03
Std Dev 4.284
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

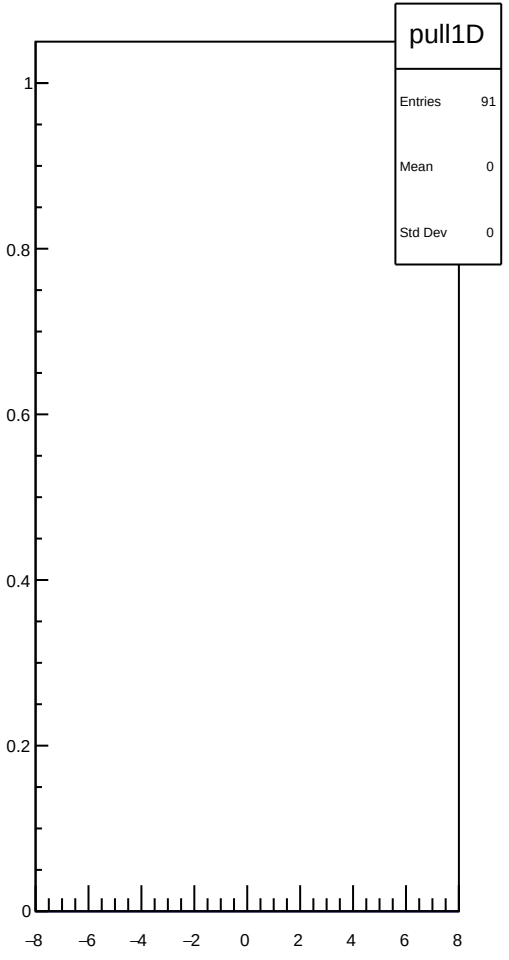

yield_bpm0l03Y_rms vs run
χ² / ndf 1.066e+06 / 90
p0 0.008921 ± 1.075e−05
1
0.8
0.6
0.4
0.2

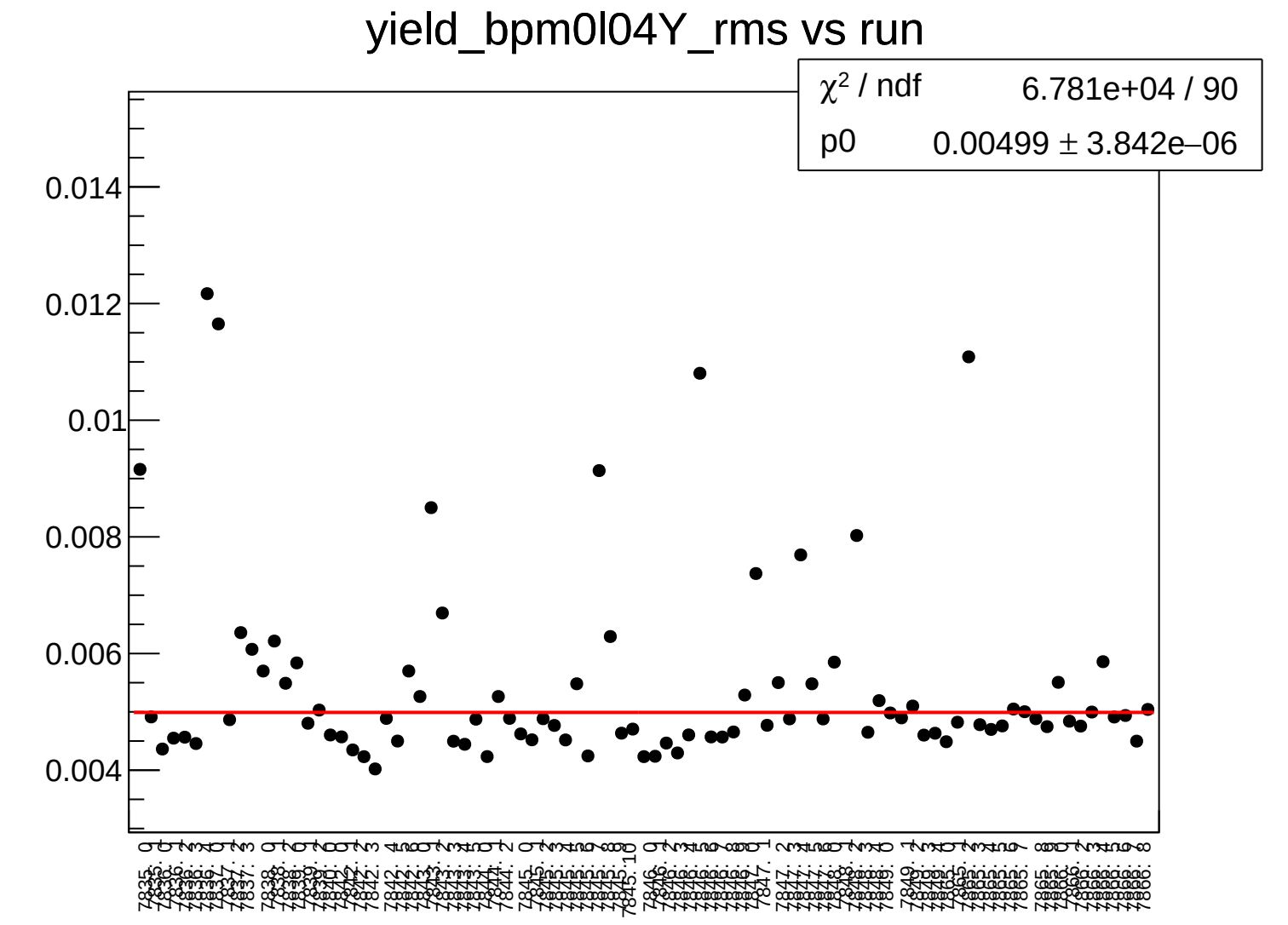

yield_bpm0l04X_mean vs run
χ² / ndf 3.325e+07 / 90
p0 0.7781± 2.29e−05
1.1
1
0.9
0.8
0.7
0.6
pull
Entries 91
Mean 1596
Std Dev 0
1500
1000
500
0
−500
−1000

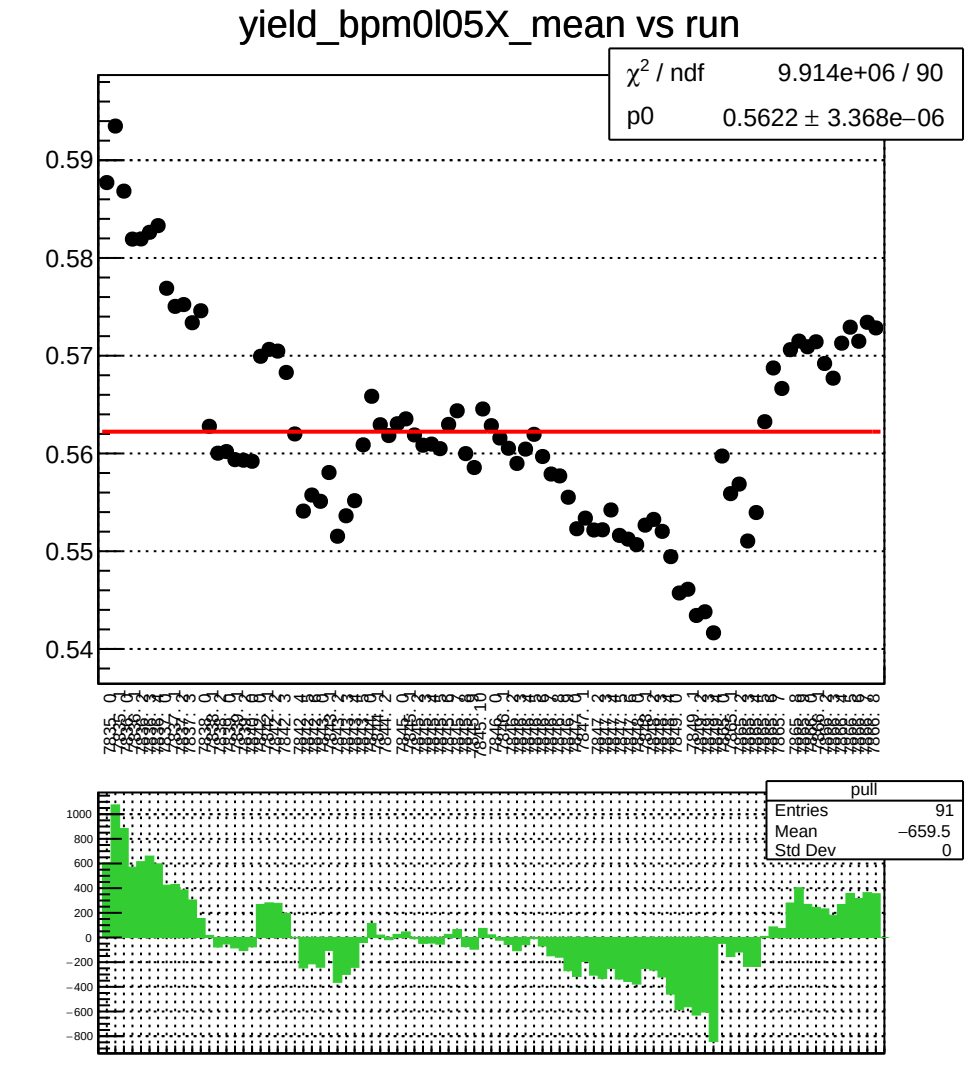

pull1D
Entries 91
Mean 7.217
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

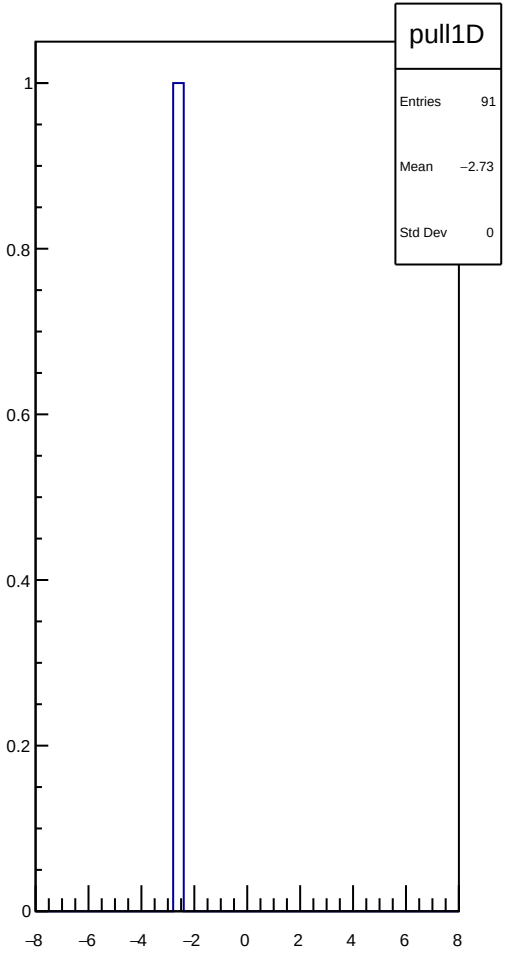

yield_bpm0l04X_rms vs run
χ^2 / ndf 5.751e+04 / 90
p0 0.0211 ± 1.62e−05
0.06
0.05
0.04
0.03
0.02

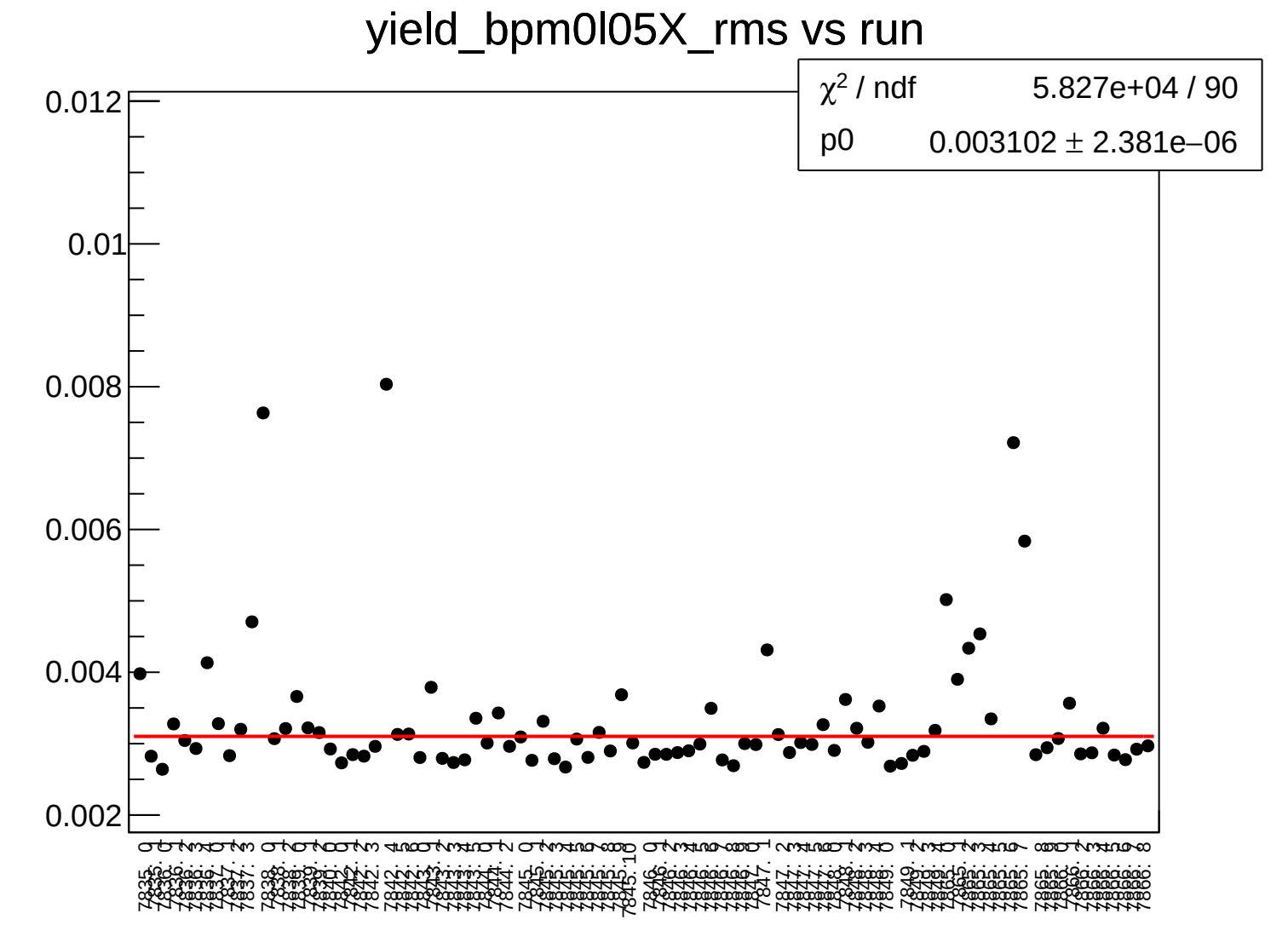

yield_bpm0l04Y_mean vs run
χ² / ndf 7.455e+06 / 90
p0 0.809 ± 5.433e−06
0.85
0.84
0.83
0.82
0.81
0.8
0.79
0.78
pull
Entries 91
Mean −1316
Std Dev 0
600
400
200
0
−200
−400

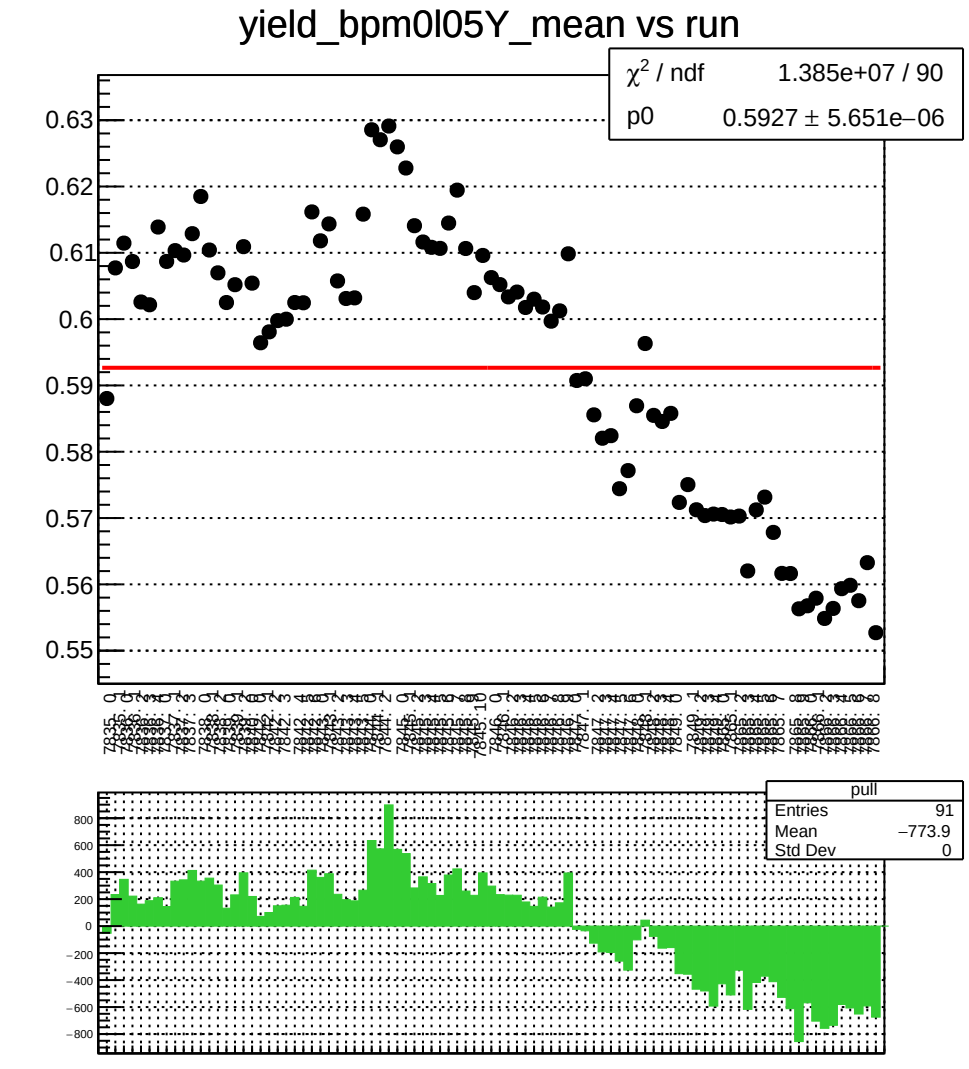

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

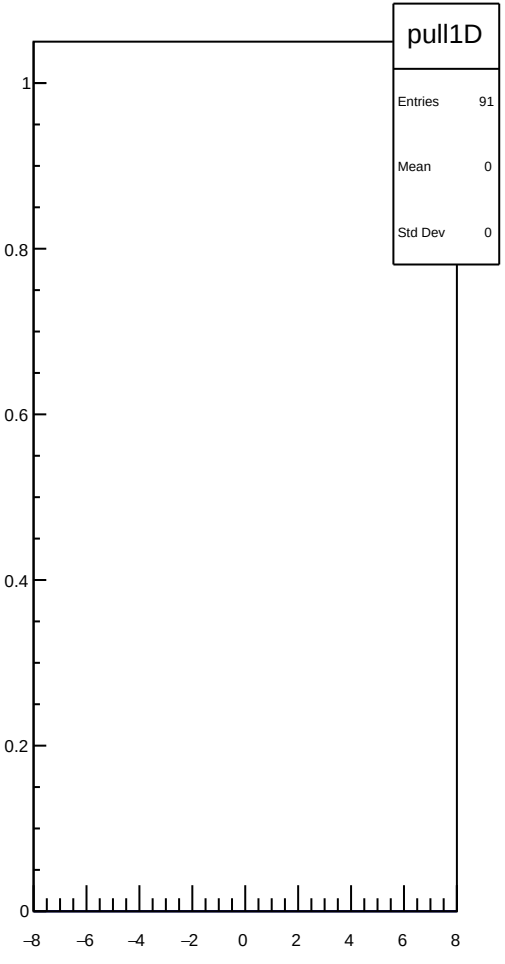

yield_bpm0l04Y_rms vs run
χ² / ndf 6.781e+04 / 90
p0 0.00499 ± 3.842e–06
0.014
0.012
0.01
0.008
0.006
0.004

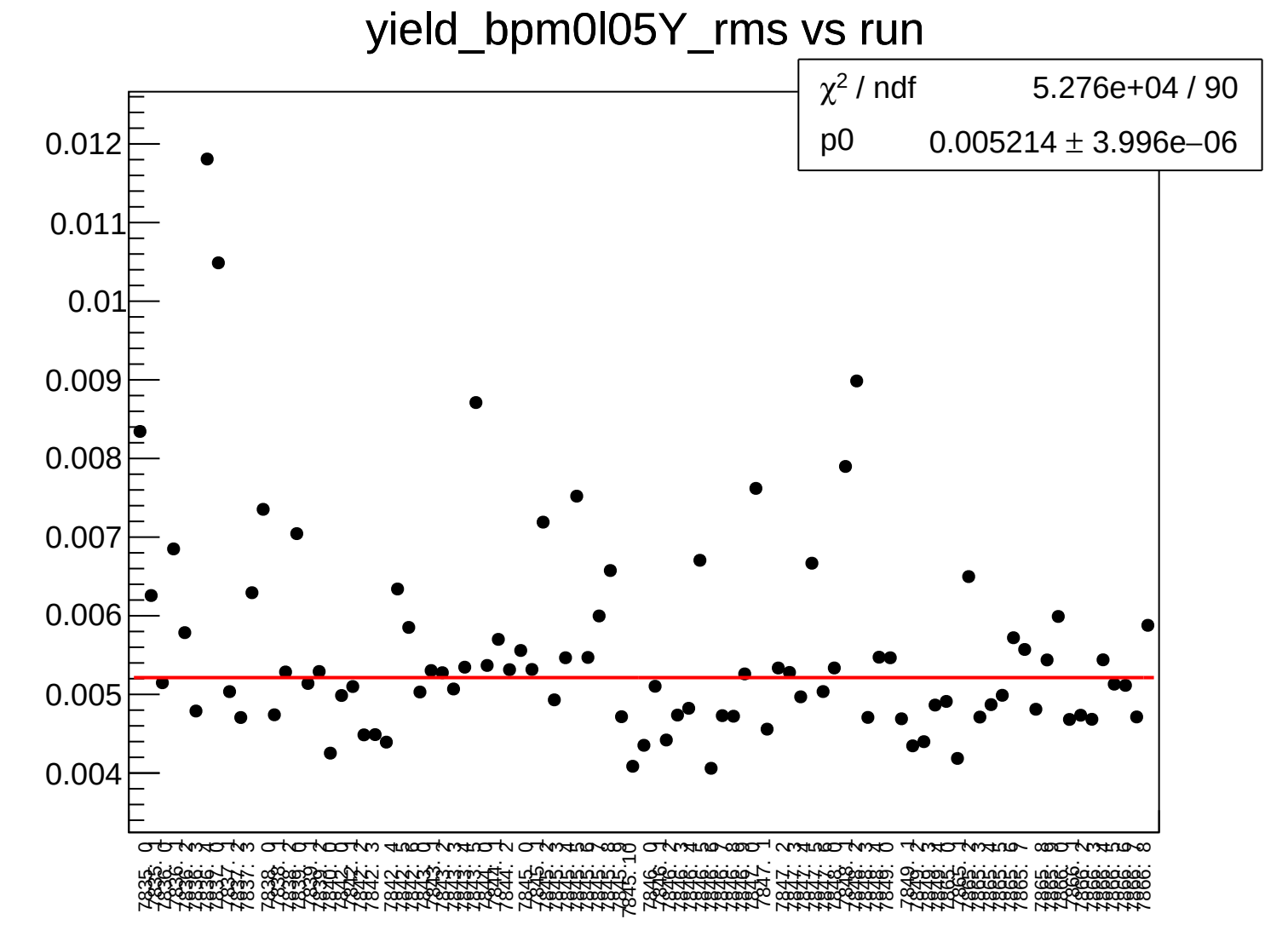

yield_bpm0l05X_mean vs run
χ² / ndf 9.914e+06 / 90
p0 0.5622 ± 3.368e−06
0.59
0.58
0.57
0.56
0.55
0.54
pull
Entries 91
Mean −659.5
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

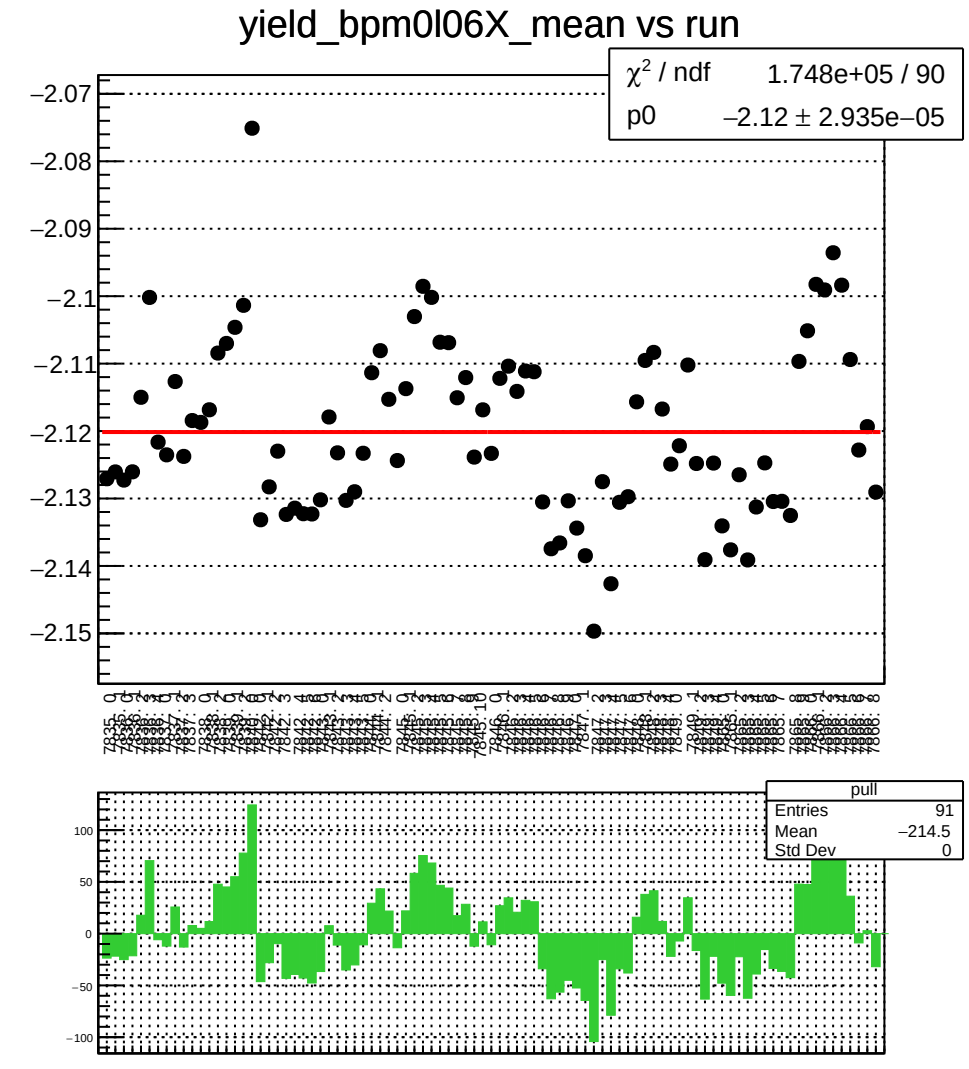

pull1D
Entries 91
Mean −2.73
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

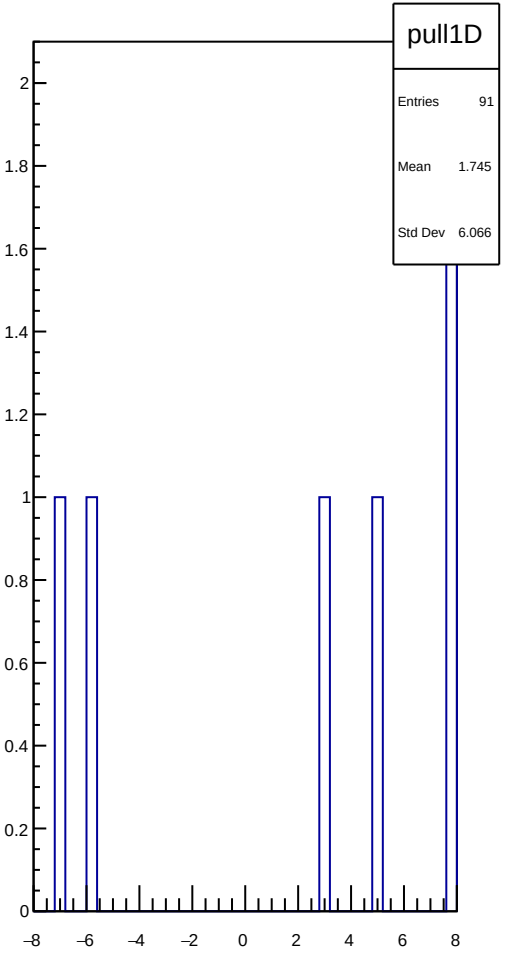

yield_bpm0l05X_rms vs run
χ² / ndf 5.827e+04 / 90
p0 0.003102 ± 2.381e−06
0.012
0.01
0.008
0.006
0.004
0.002

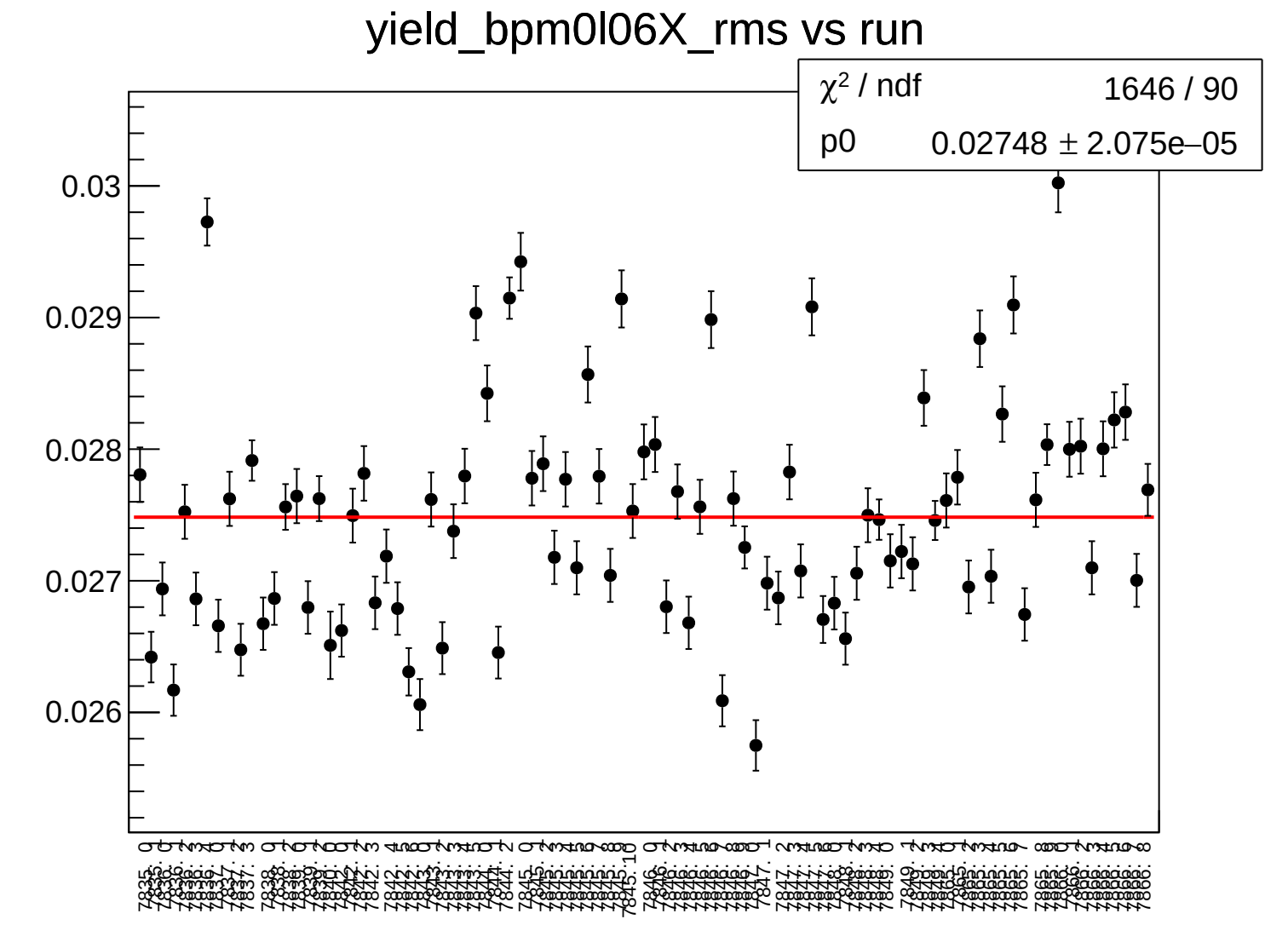

yield_bpm0l05Y_mean vs run
χ² / ndf 1.385e+07 / 90
p0 0.5927 ± 5.651e−06
pull
Entries 91
Mean −773.9
Std Dev 0

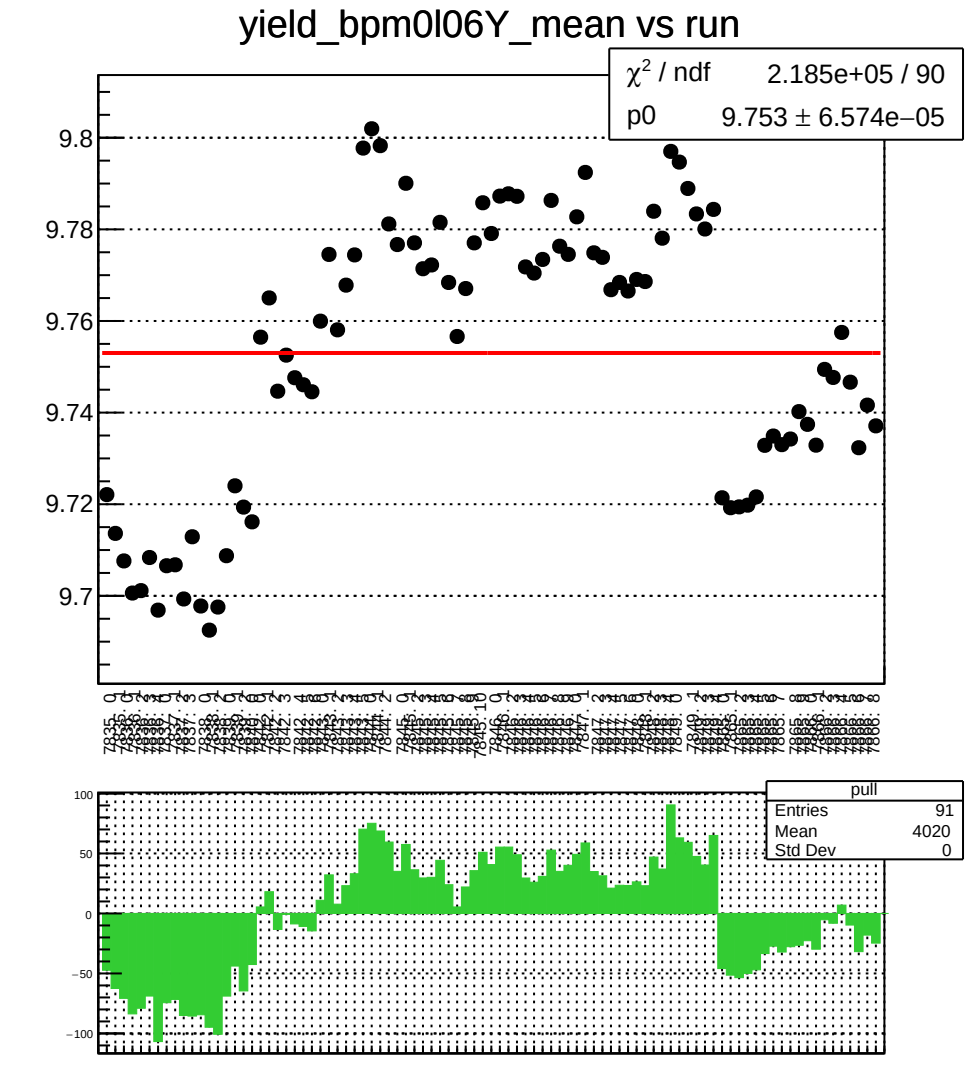

pull1D
Entries 91
Mean 0
Std Dev 0

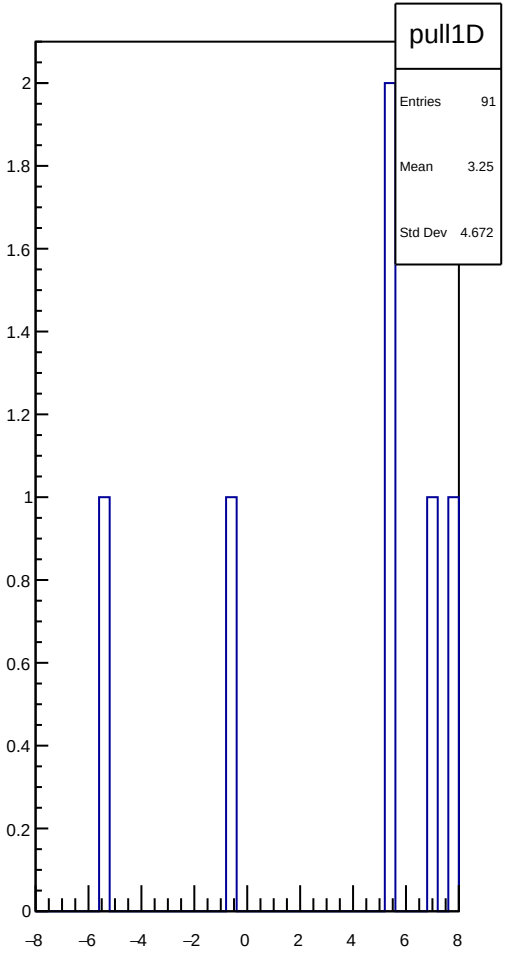

yield_bpm0l05Y_rms vs run
χ² / ndf 5.276e+04 / 90
p0 0.005214 ± 3.996e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

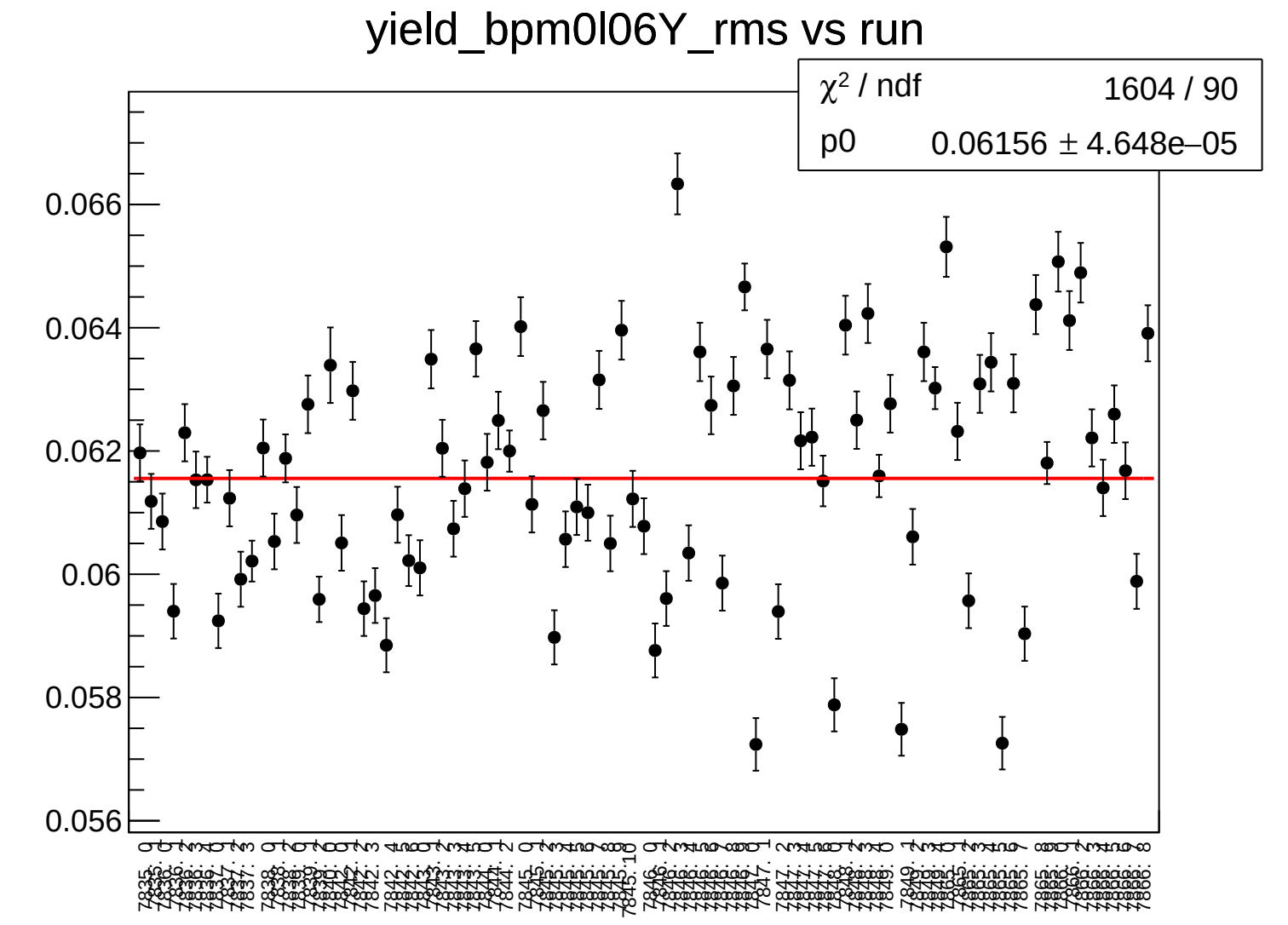

yield_bpm0l06X_mean vs run
χ² / ndf 1.748e+05 / 90
p0 −2.12 ± 2.935e−05
−2.07
−2.08
−2.09
−2.1
−2.11
−2.12
−2.13
−2.14
−2.15
pull
Entries 91
Mean −214.5
Std Dev 0
100
50
0
−50
−100

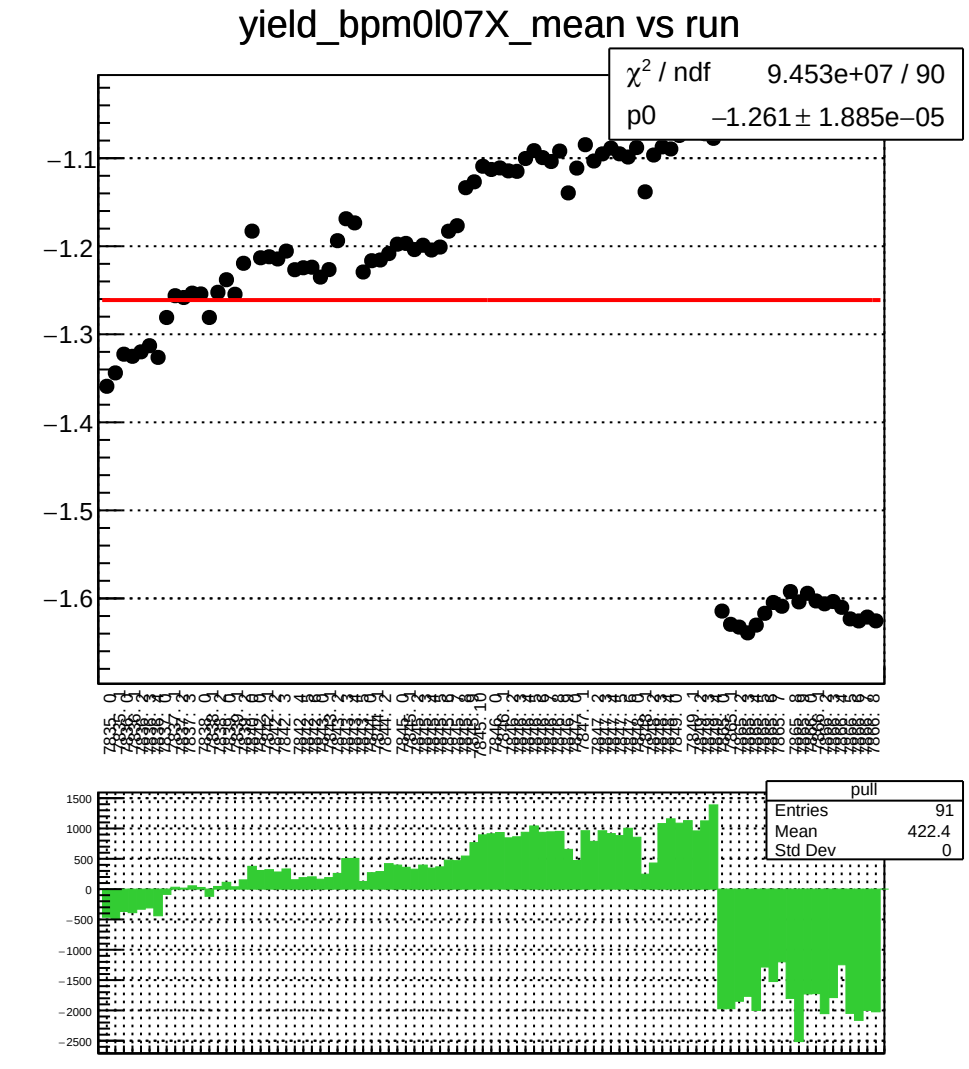

pull1D
Entries 91
Mean 1.745
Std Dev 6.066
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

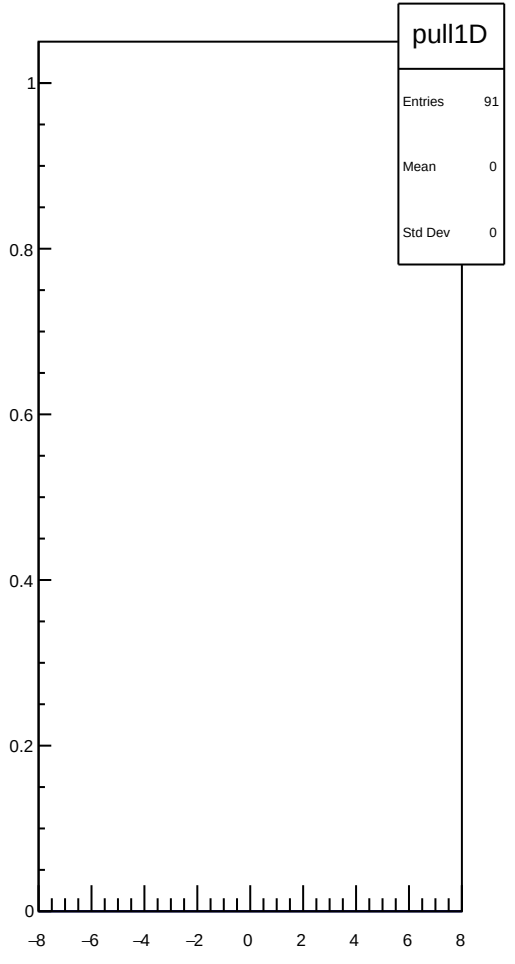

yield_bpm0l06X_rms vs run
χ² / ndf 1646 / 90
p0 0.02748 ± 2.075e−05
0.03
0.029
0.028
0.027
0.026

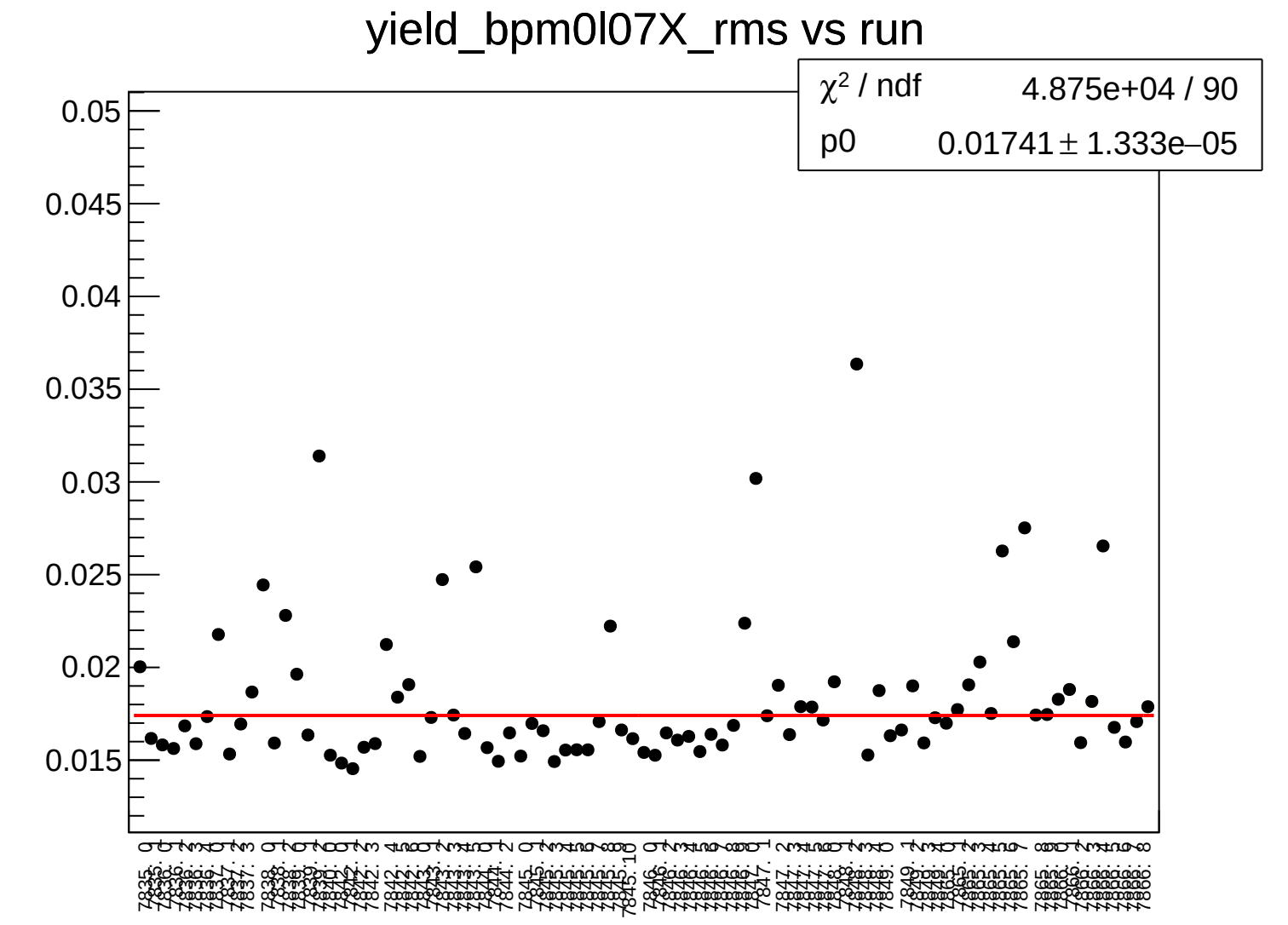

yield_bpm0l06Y_mean vs run
χ² / ndf 2.185e+05 / 90
p0 9.753 ± 6.574e−05
9.8
9.78
9.76
9.74
9.72
9.7
pull
Entries 91
Mean 4020
Std Dev 0
100
50
0
−50
−100

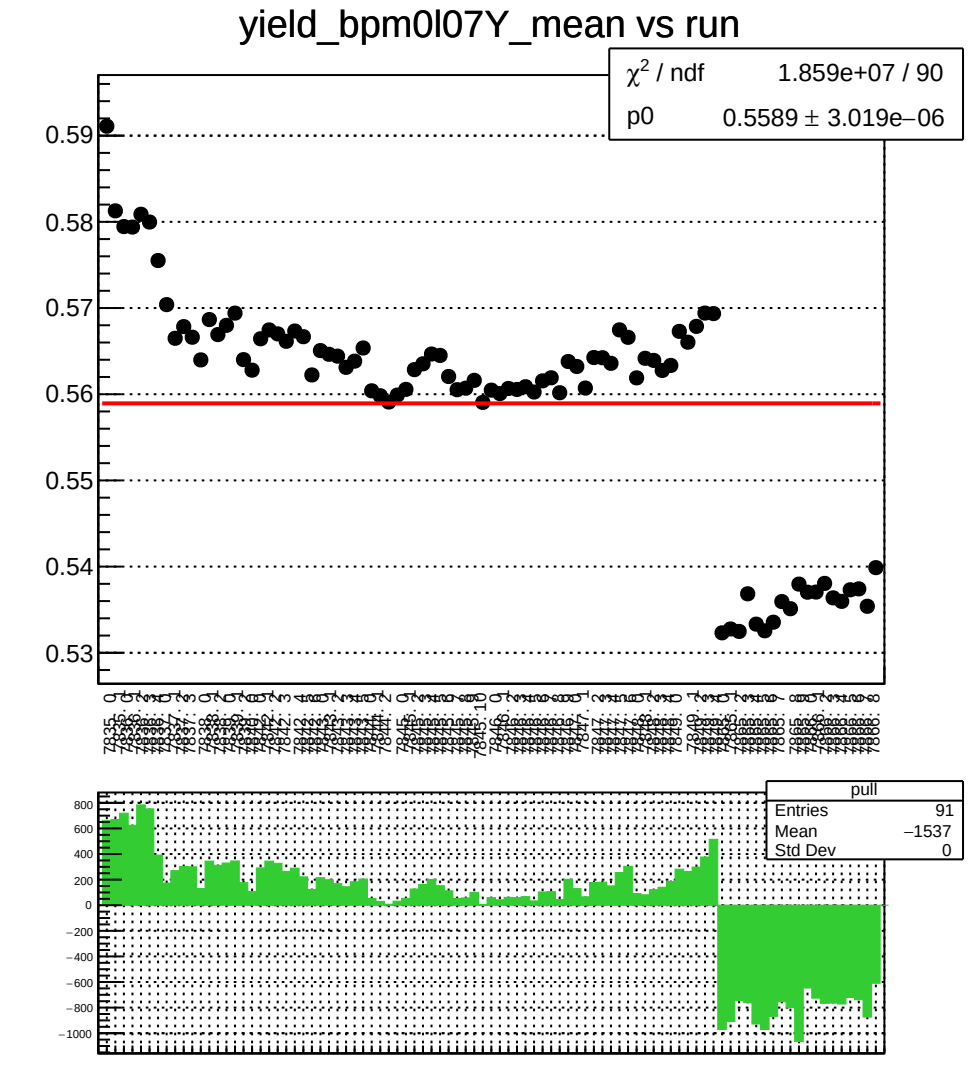

pull1D
Entries 91
Mean 3.25
Std Dev 4.672
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

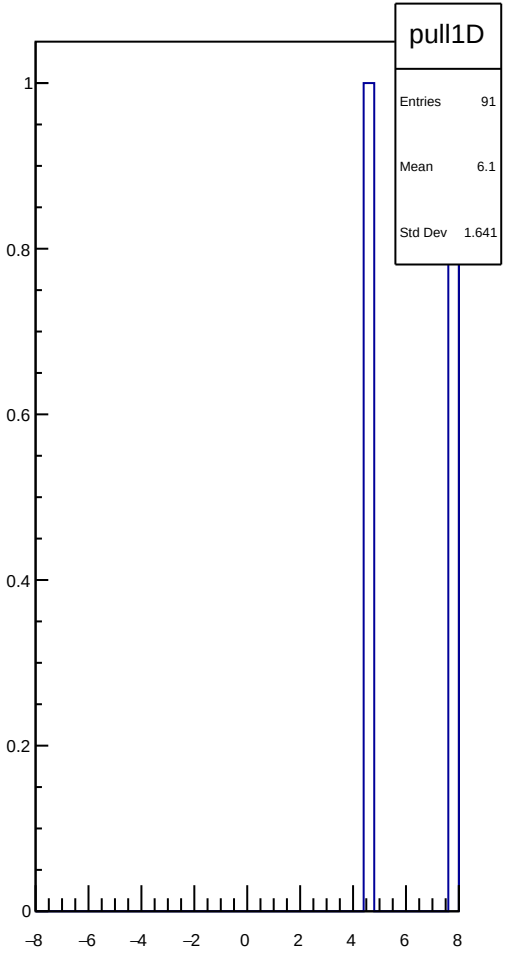

yield_bpm0l06Y_rms vs run
χ² / ndf 1604 / 90
p0 0.06156 ± 4.648e–05
0.066
0.064
0.062
0.06
0.058
0.056

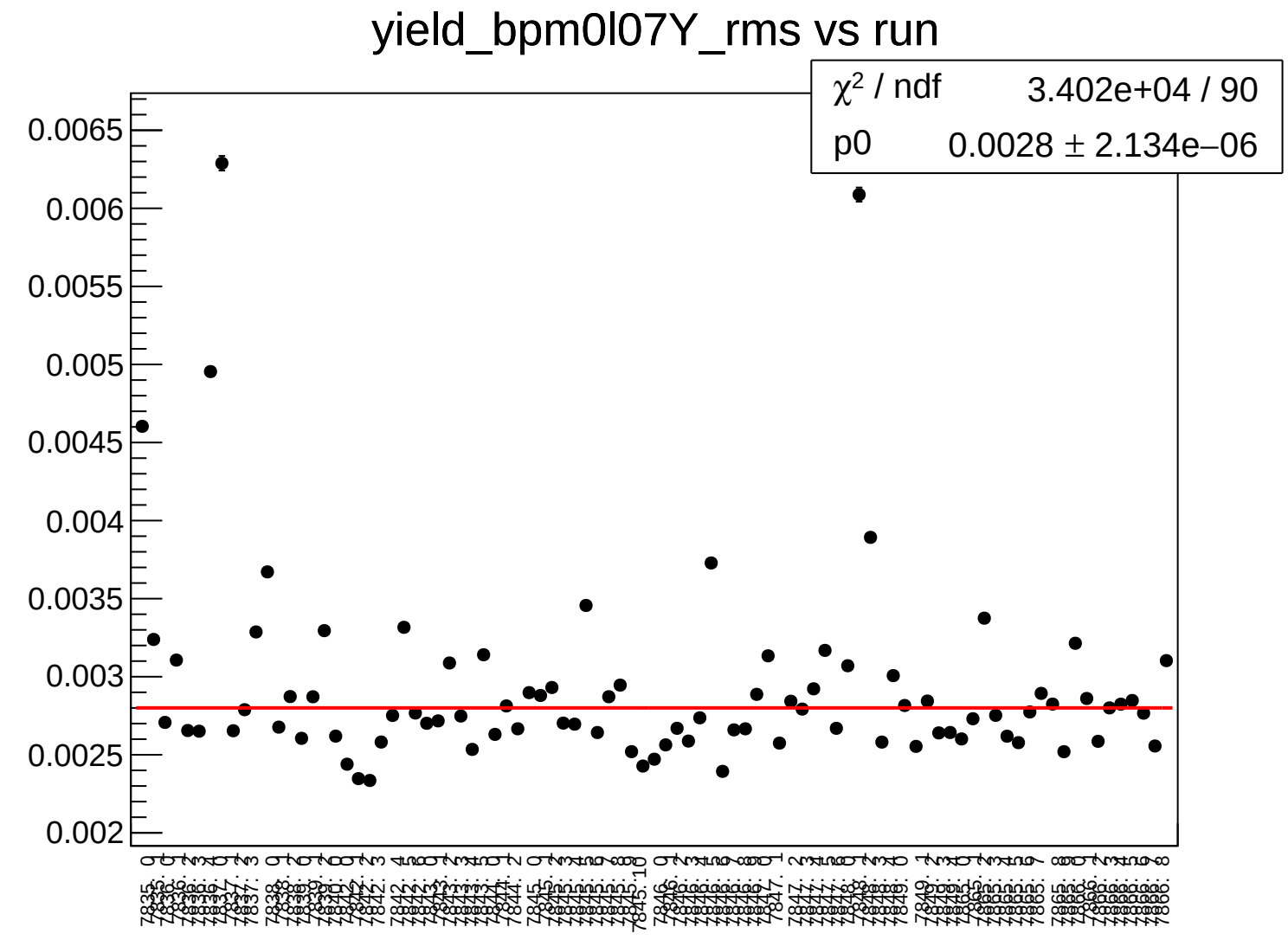

yield_bpm0l07X_mean vs run
χ² / ndf 9.453e+07 / 90
p0 −1.261 ± 1.885e−05
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
pull
Entries 91
Mean 422.4
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

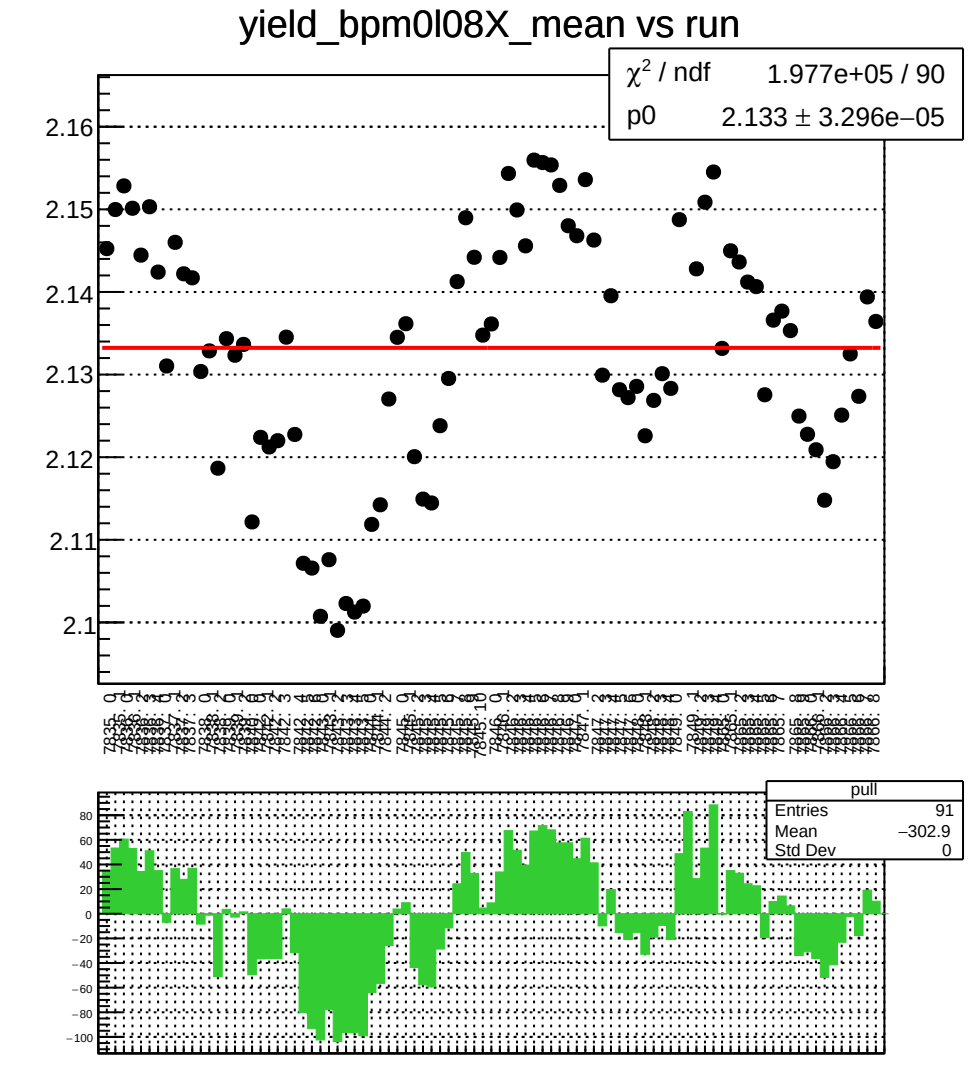

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

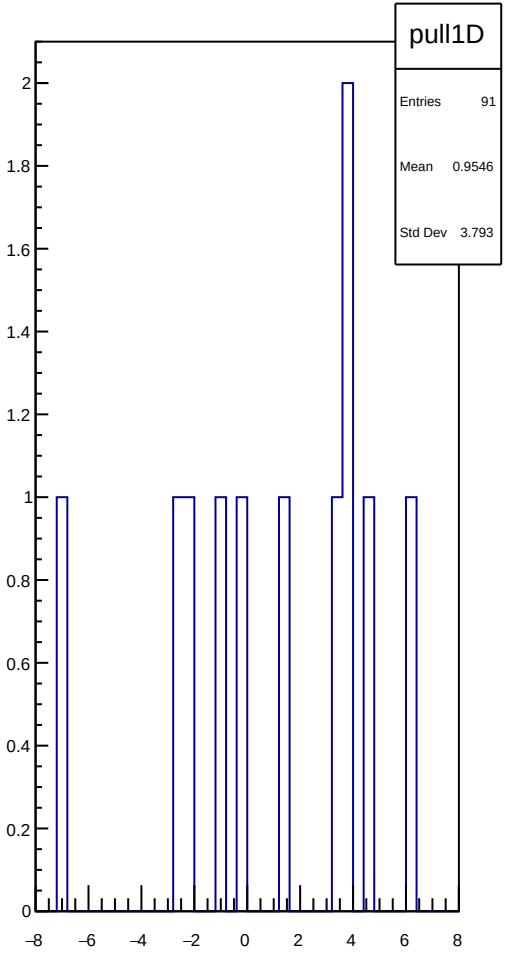

yield_bpm0l07X_rms vs run
χ² / ndf 4.875e+04 / 90
p0 0.01741 ± 1.333e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

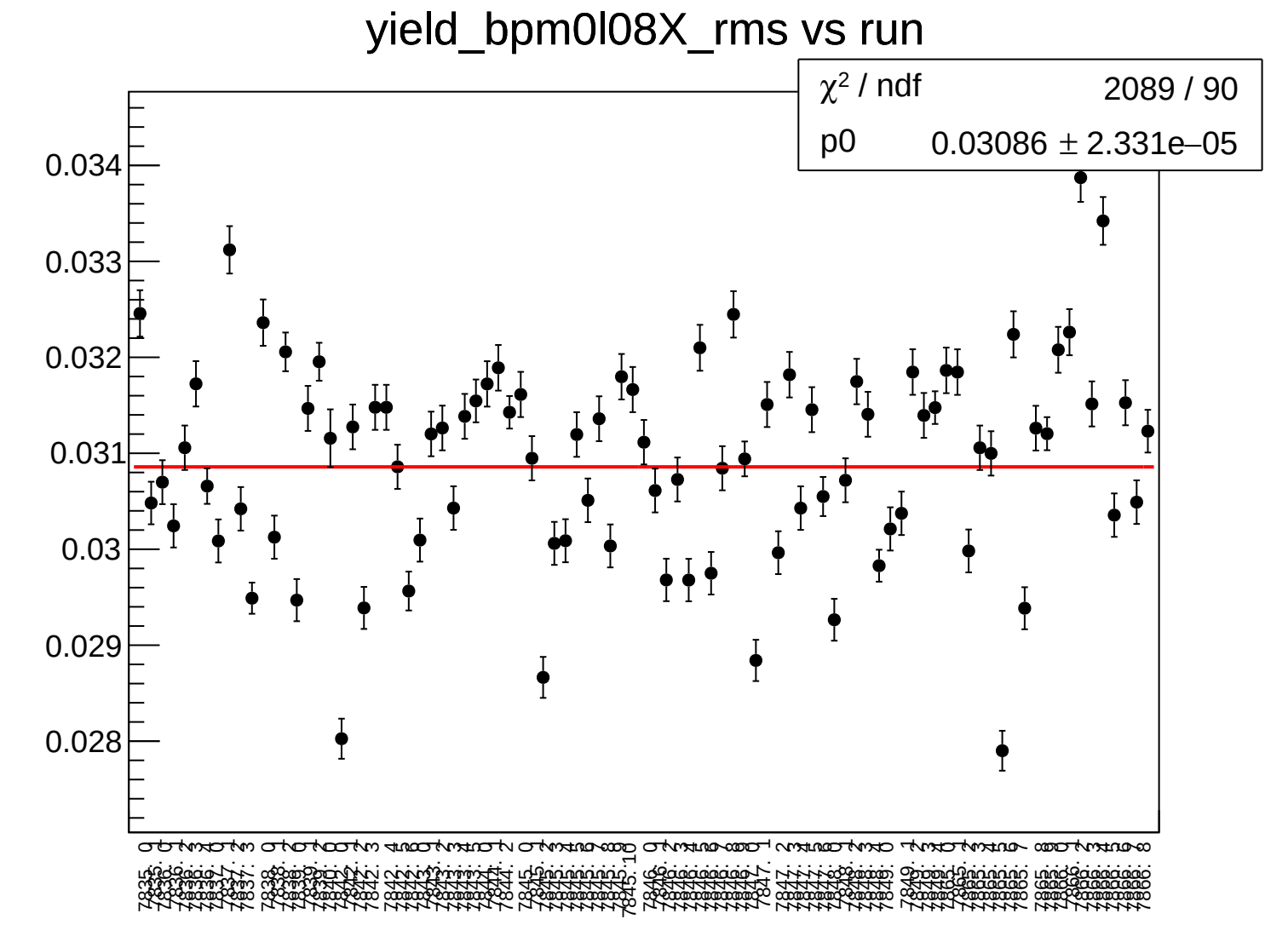

yield_bpm0l07Y_mean vs run
χ² / ndf 1.859e+07 / 90
p0 0.5589 ± 3.019e−06
0.59
0.58
0.57
0.56
0.55
0.54
0.53
pull
Entries 91
Mean −1537
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

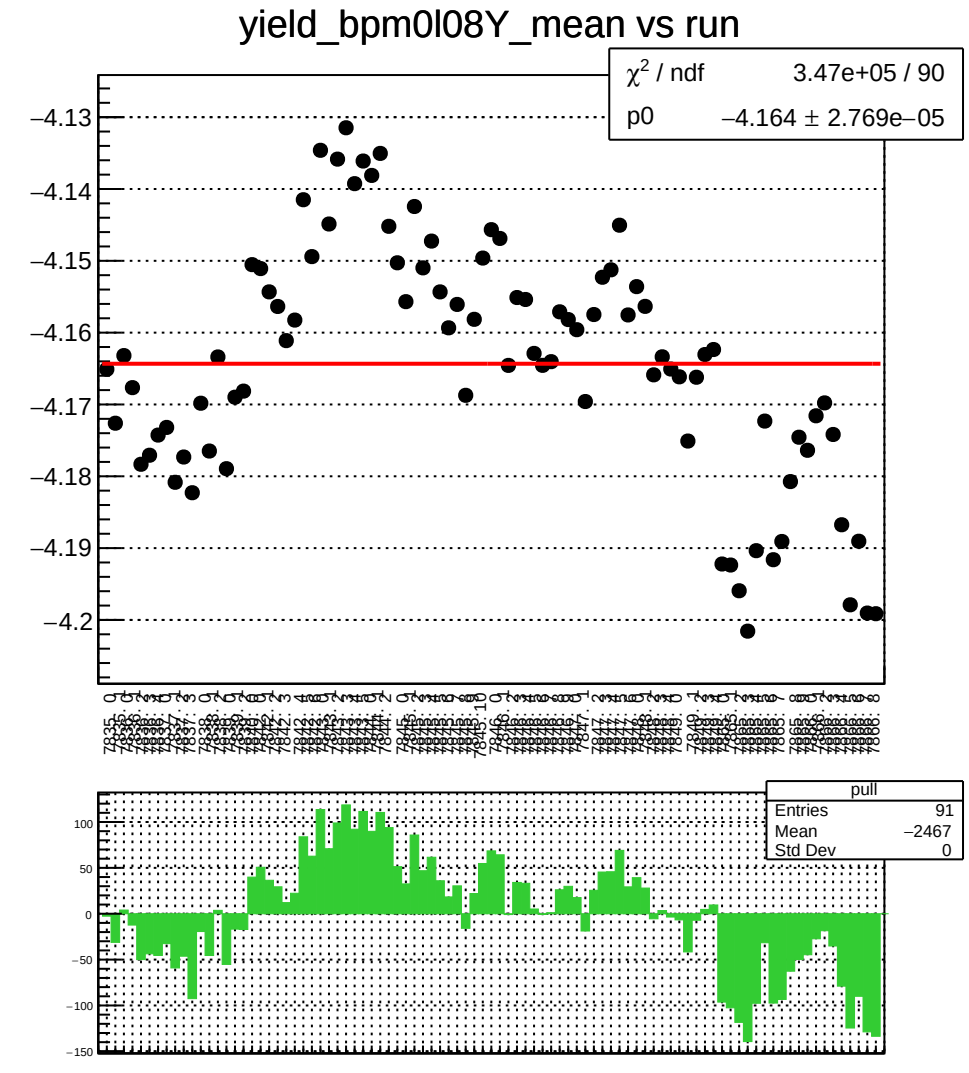

pull1D
Entries 91
Mean 6.1
Std Dev 1.641
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

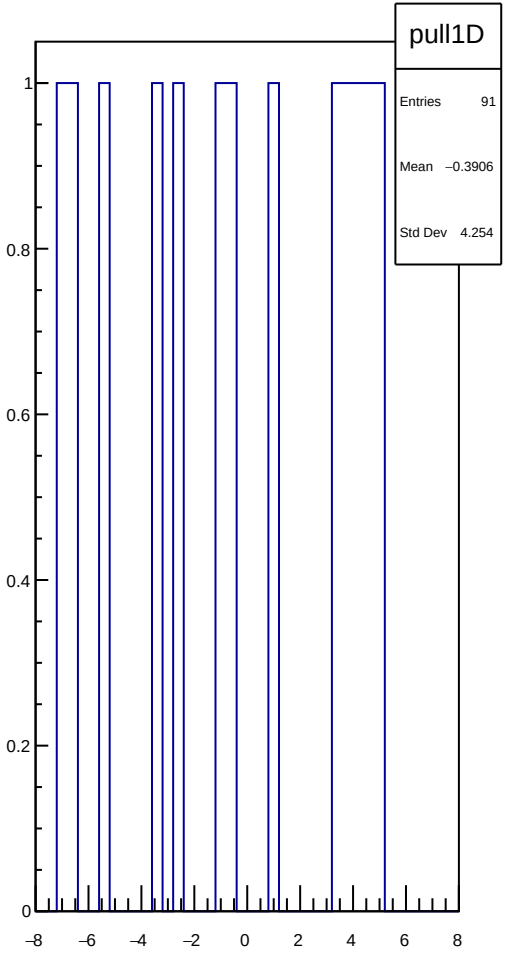

yield_bpm0l07Y_rms vs run
χ² / ndf 3.402e+04 / 90
p0 0.0028 ± 2.134e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

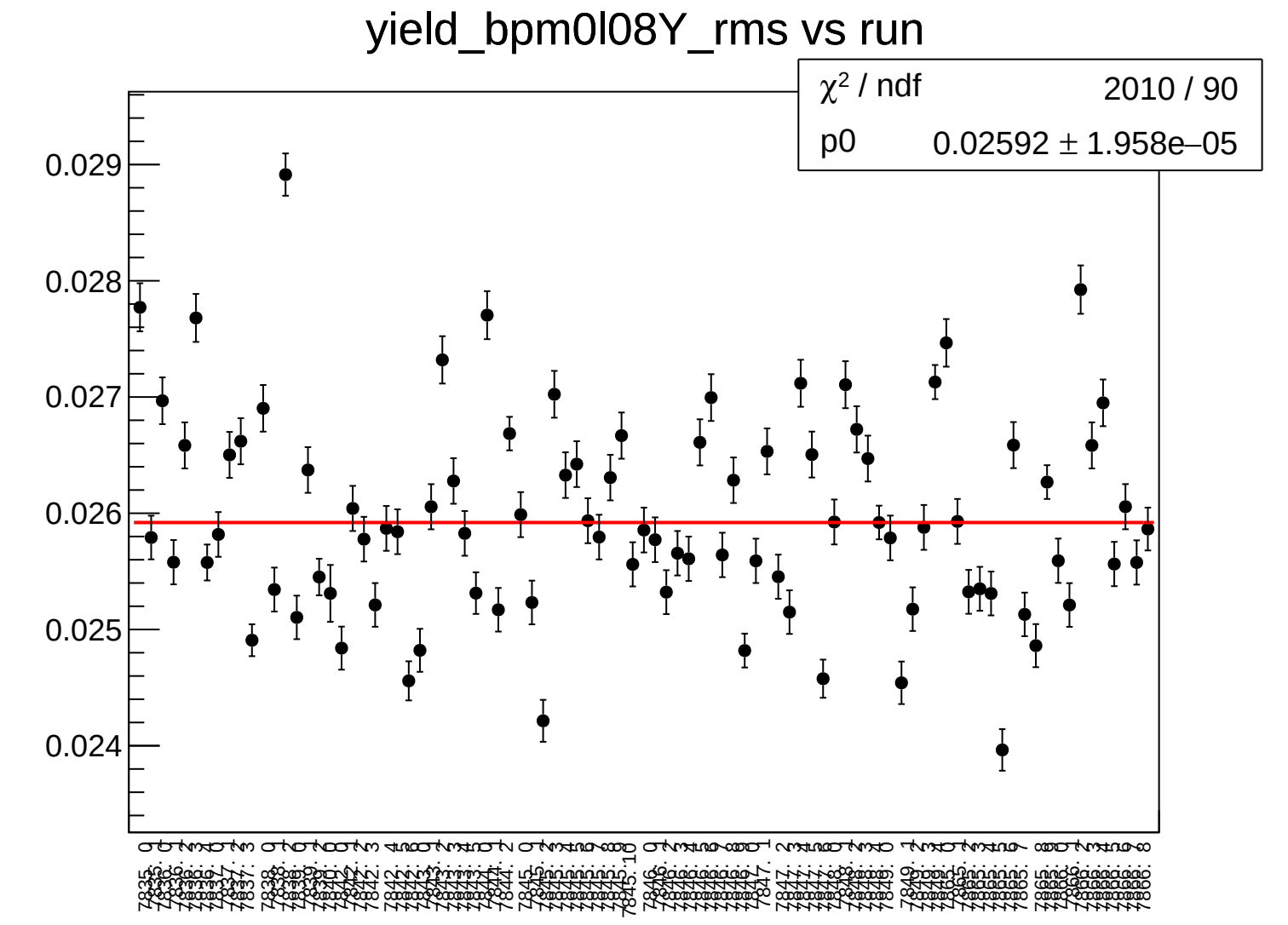

yield_bpm0l08X_mean vs run
χ² / ndf 1.977e+05 / 90
p0 2.133 ± 3.296e−05
2.16
2.15
2.14
2.13
2.12
2.11
2.1
pull
Entries 91
Mean −302.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

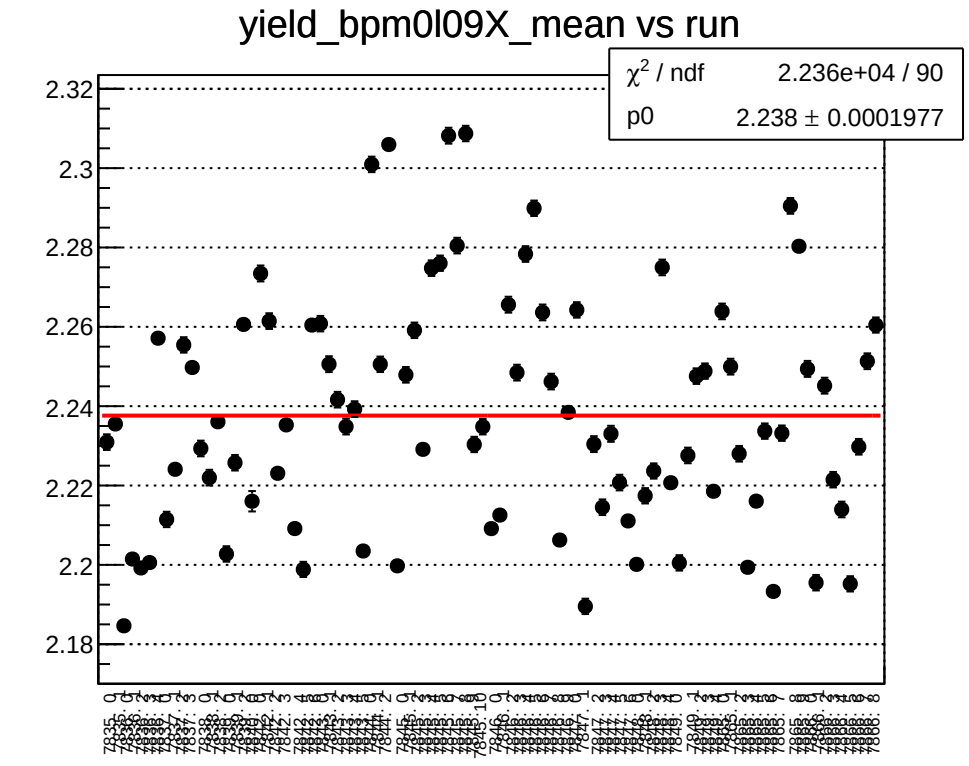

pull1D
Entries 91
Mean 0.9546
Std Dev 3.793
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

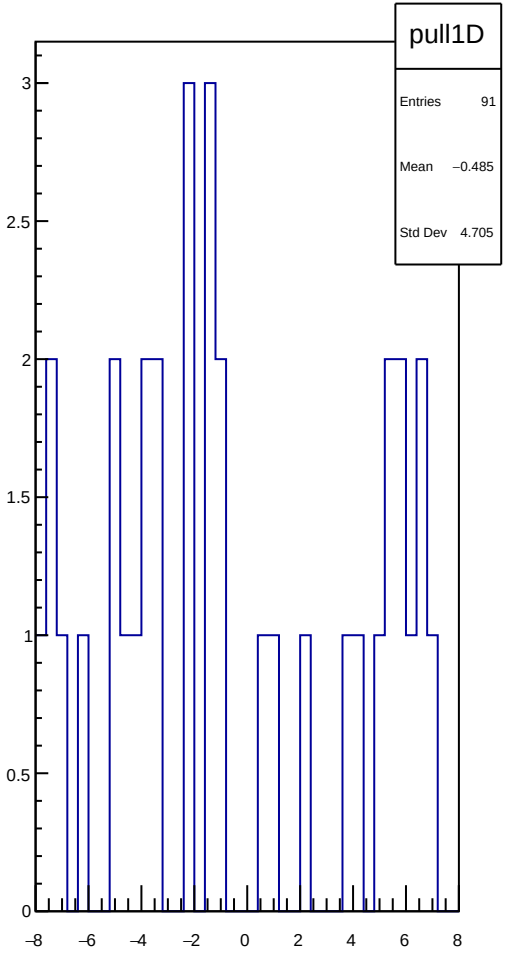

yield_bpm0l08X_rms vs run
χ² / ndf 2089 / 90
p0 0.03086 ± 2.331e–05
0.034
0.033
0.032
0.031
0.03
0.029
0.028

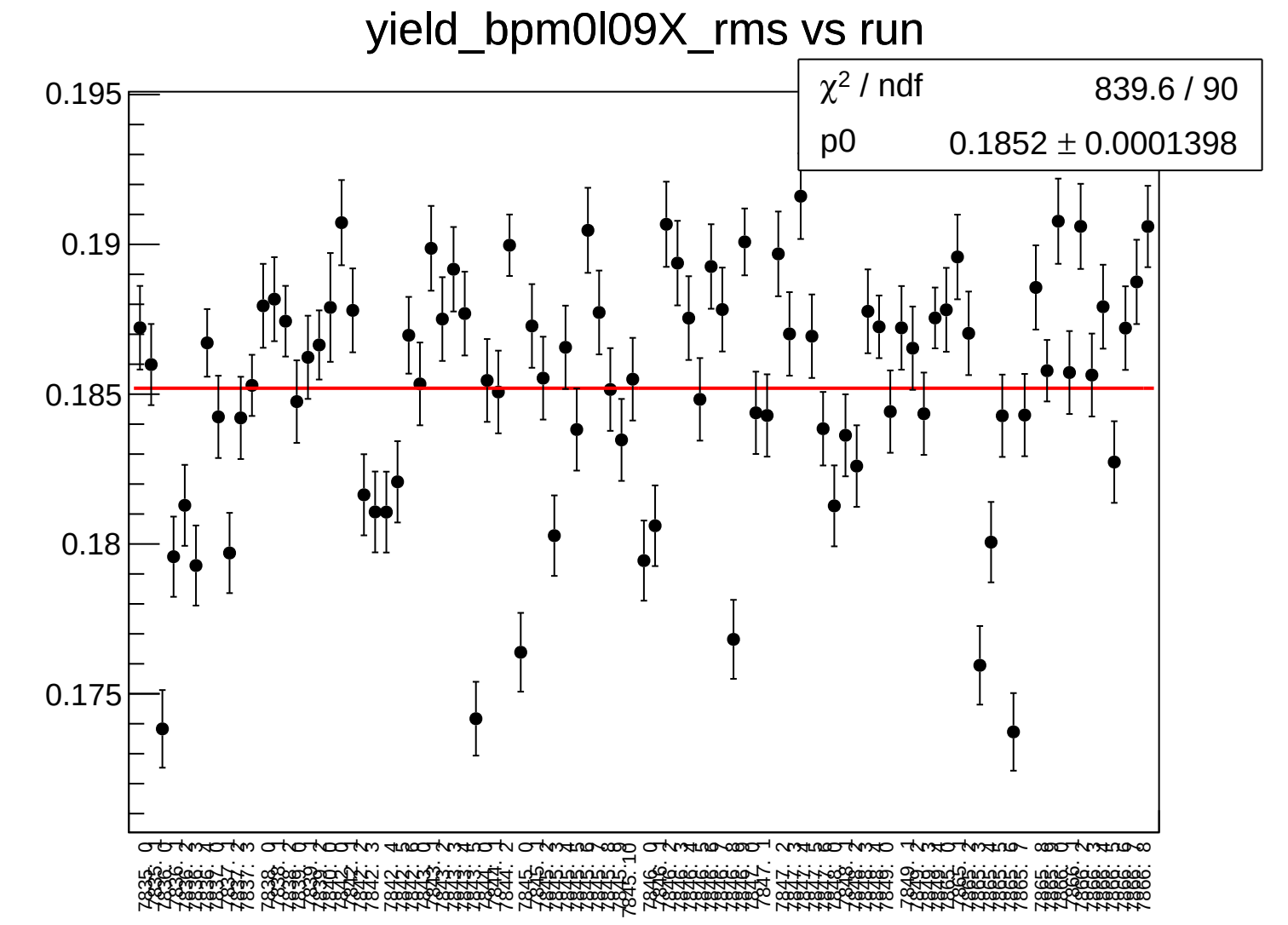

yield_bpm0l08Y_mean vs run
χ² / ndf 3.47e+05 / 90
p0 −4.164 ± 2.769e−05
−4.13
−4.14
−4.15
−4.16
−4.17
−4.18
−4.19
−4.2
pull
Entries 91
Mean −2467
Std Dev 0
100
50
0
−50
−100
−150

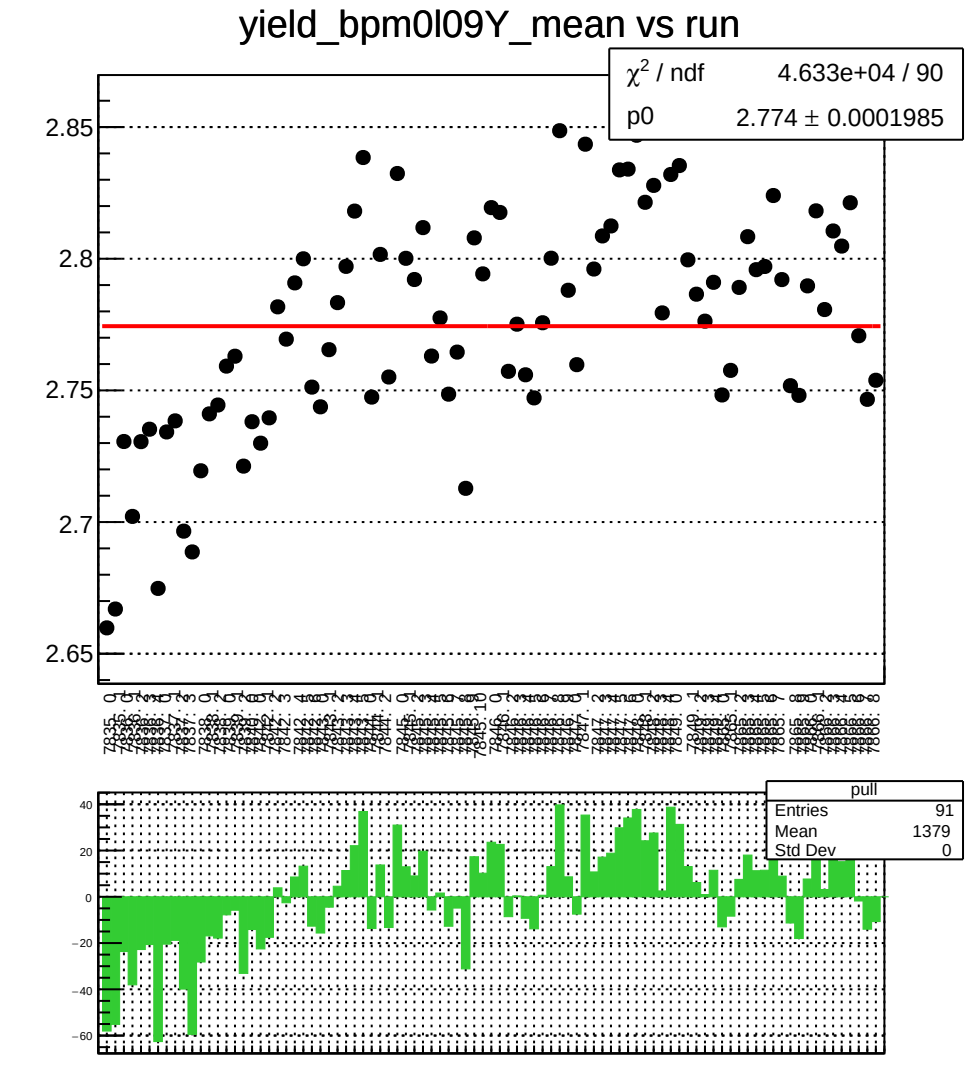

pull1D
Entries 91
Mean −0.3906
Std Dev 4.254
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

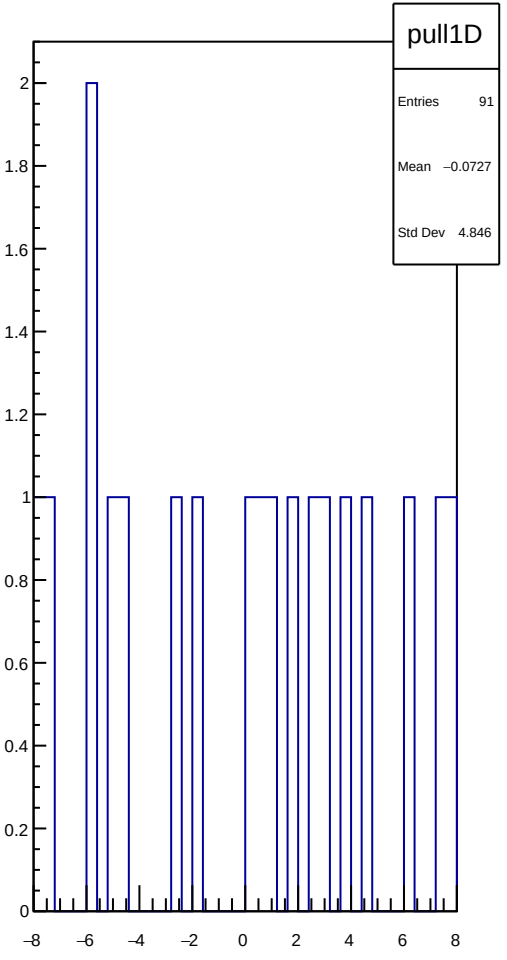

yield_bpm0l08Y_rms vs run
χ² / ndf 2010 / 90
p0 0.02592 ± 1.958e–05
0.029
0.028
0.027
0.026
0.025
0.024

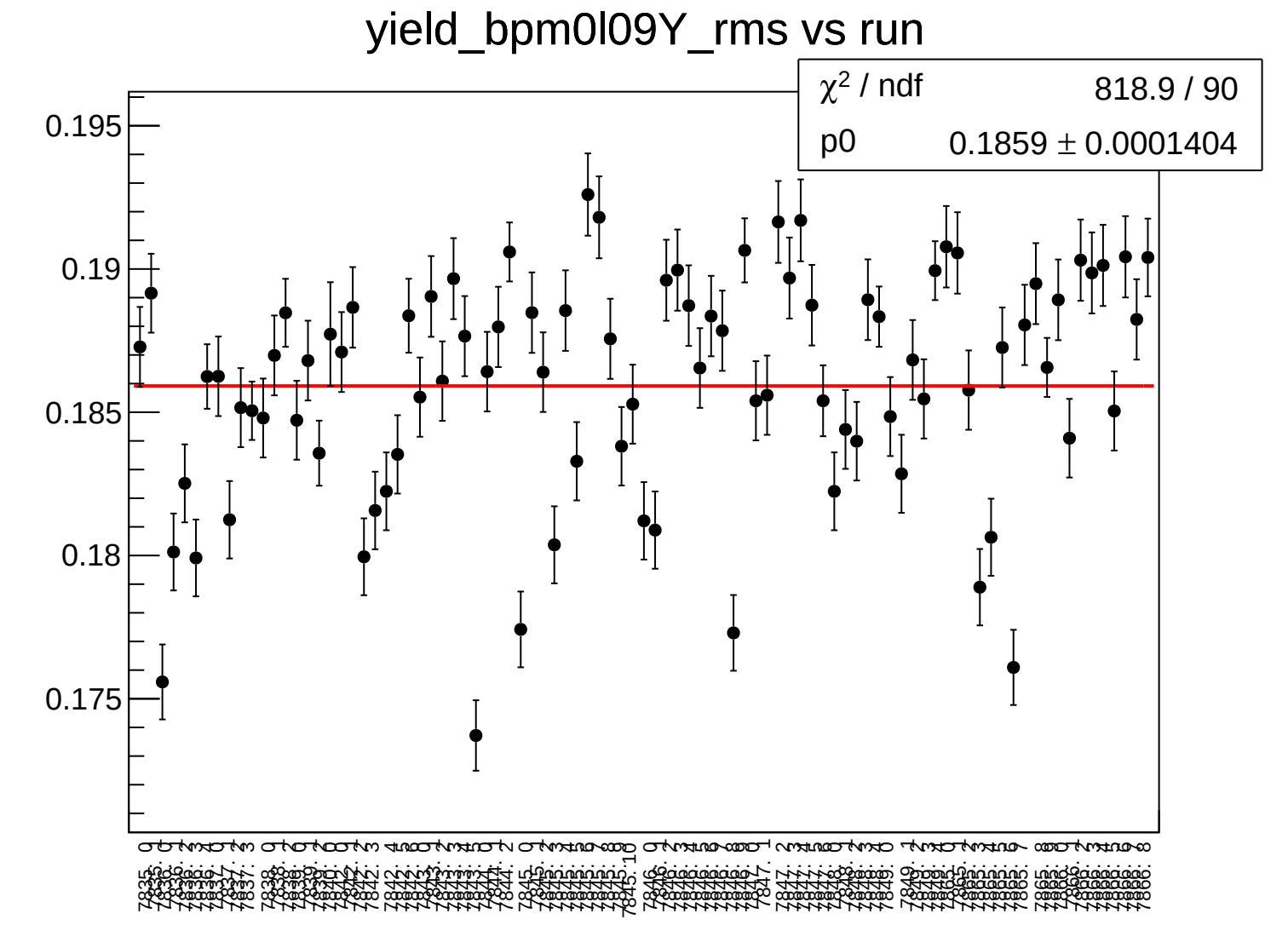

yield_bpm0l09X_mean vs run
χ² / ndf 2.236e+04 / 90
p0 2.238 ± 0.0001977
2.32
2.3
2.28
2.26
2.24
2.22
2.2
2.18
pull
Entries 91
Mean 39.68
Std Dev 152
50
40
30
20
10
0
−10
−20
−30

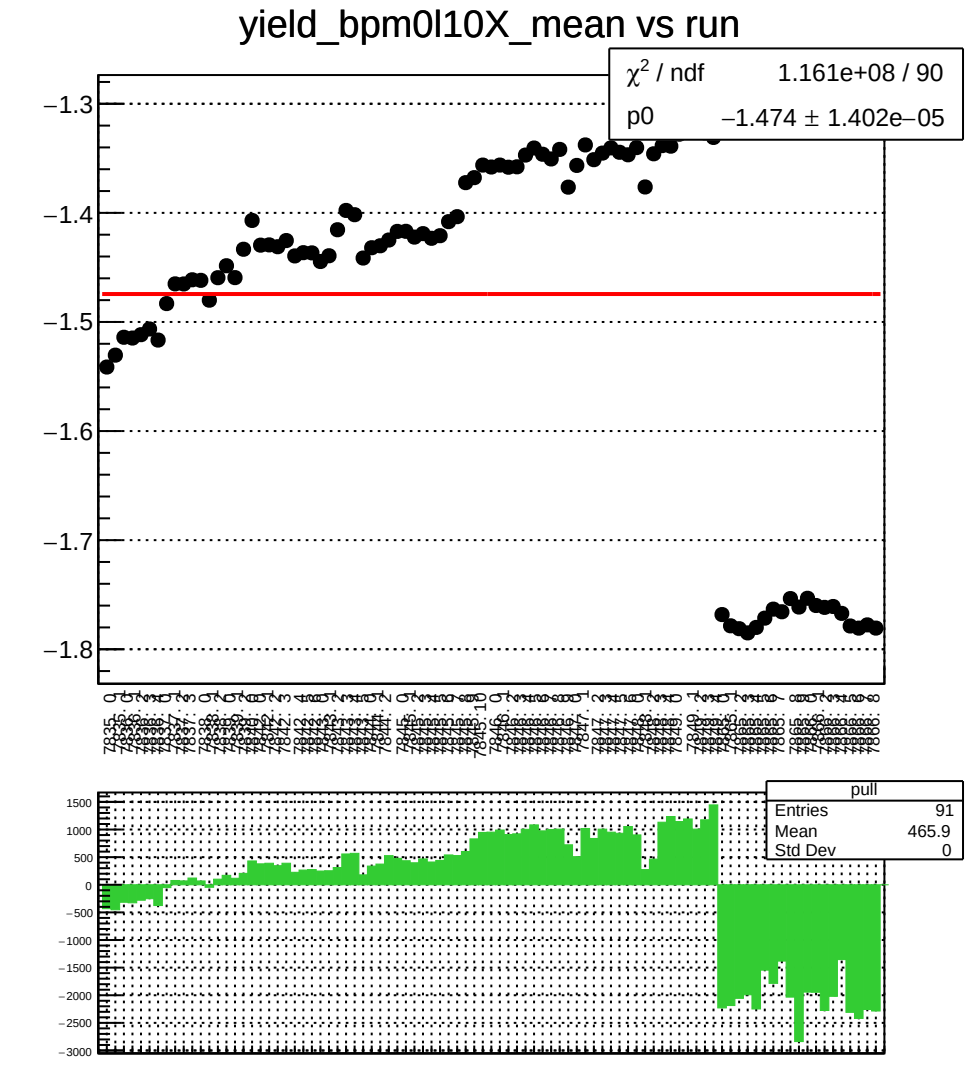

pull1D
Entries 91
Mean −0.485
Std Dev 4.705
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

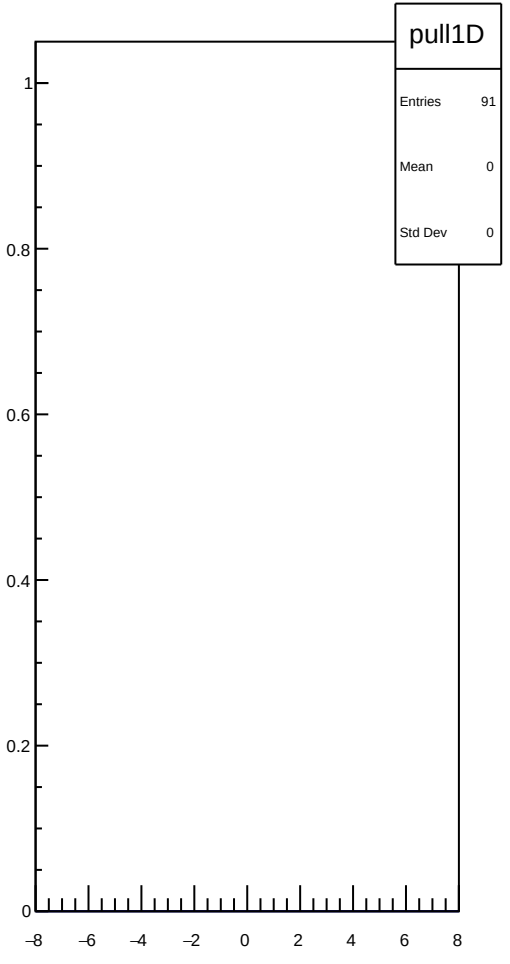

yield_bpm0l09X_rms vs run
χ² / ndf 839.6 / 90
p0 0.1852 ± 0.0001398
0.195
0.19
0.185
0.18
0.175

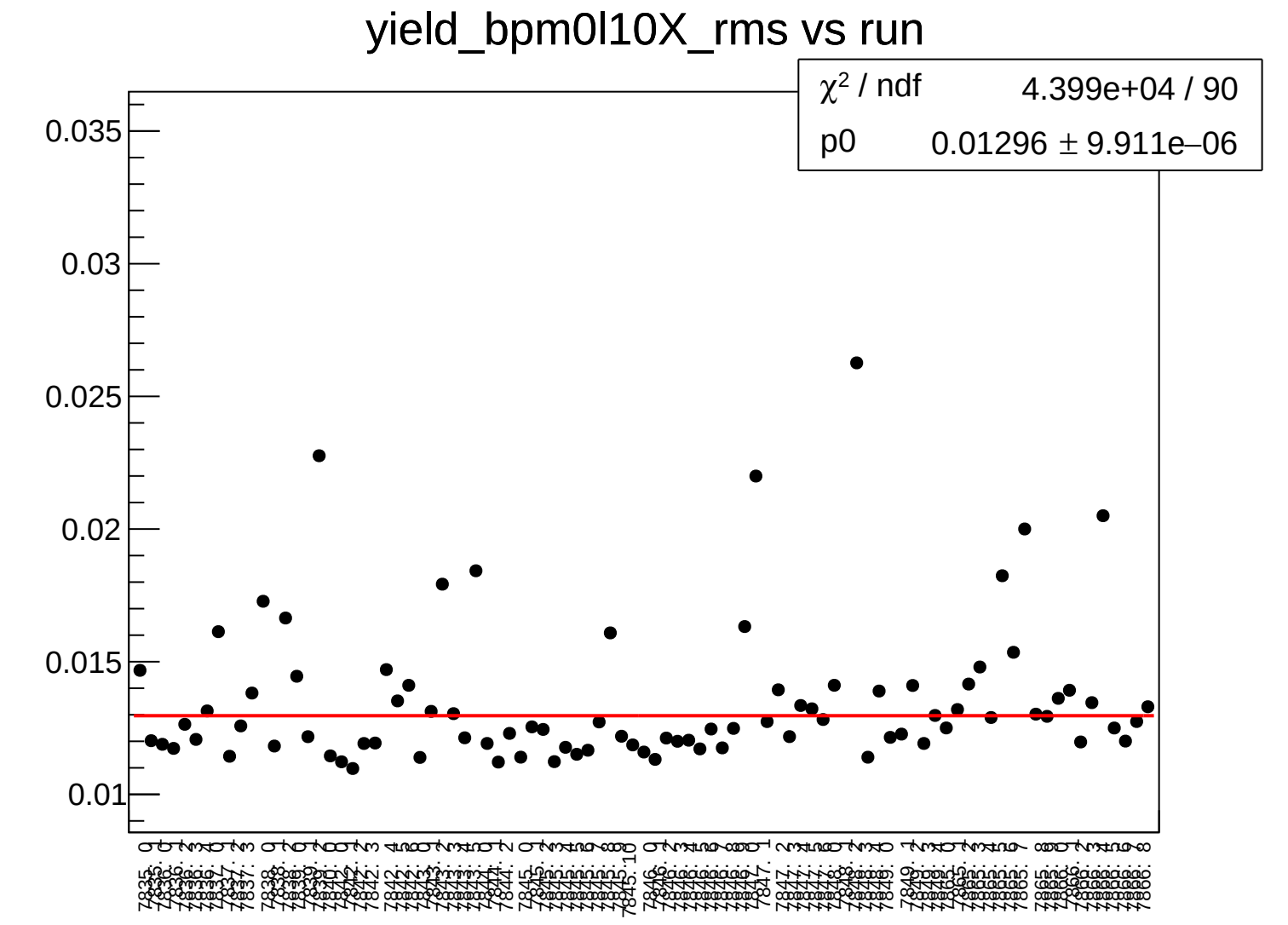

yield_bpm0l09Y_mean vs run
χ² / ndf 4.633e+04 / 90
p0 2.774 ± 0.0001985
2.85
2.8
2.75
2.7
2.65
pull
Entries 91
Mean 1379
Std Dev 0
40
20
0
−20
−40
−60

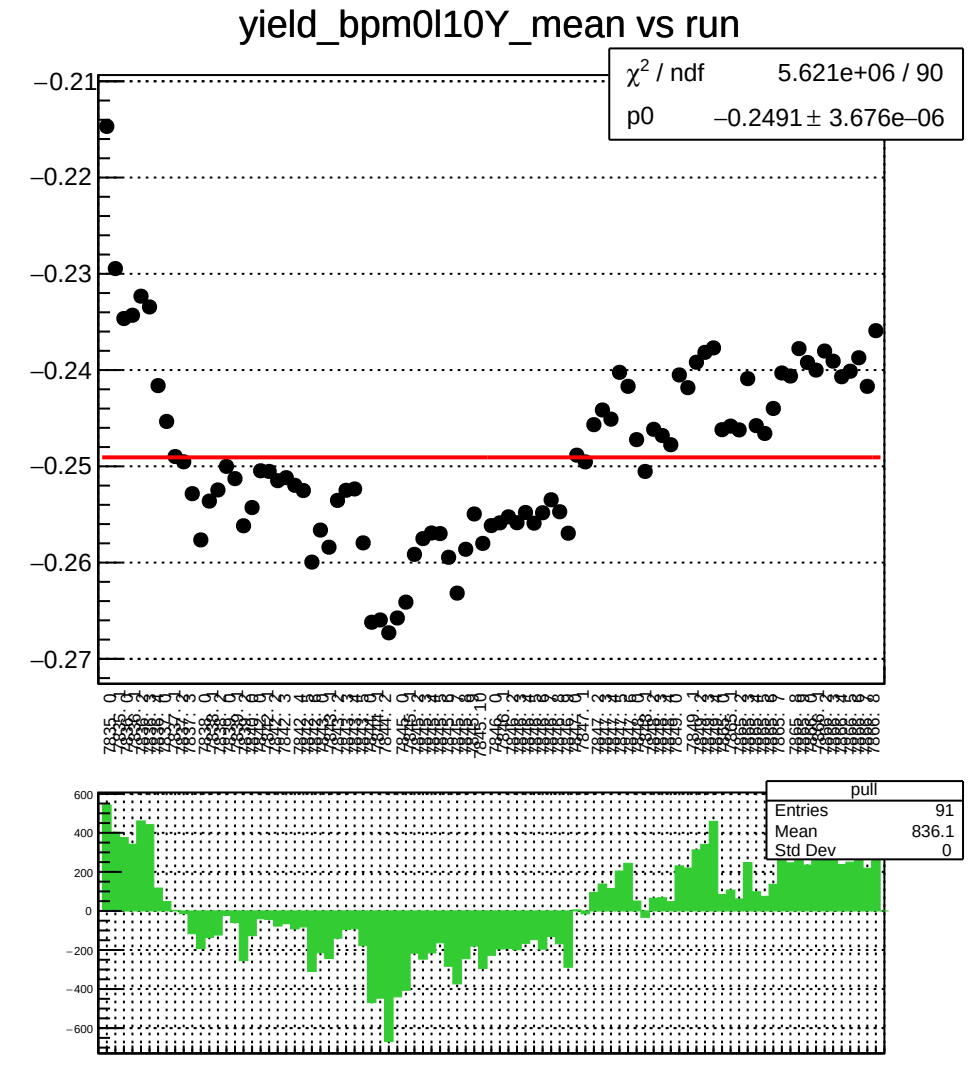

pull1D
Entries 91
Mean −0.0727
Std Dev 4.846
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

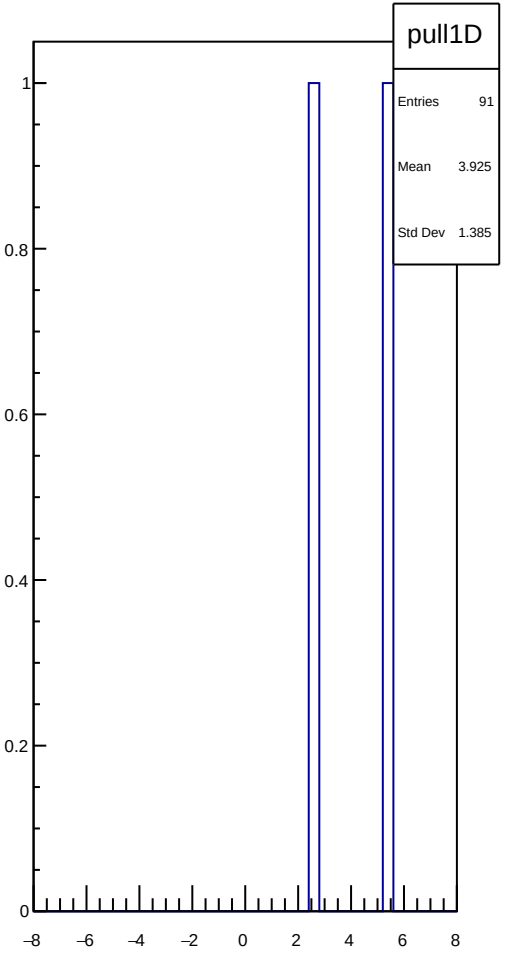

yield_bpm0l09Y_rms vs run
χ² / ndf 818.9 / 90
p0 0.1859 ± 0.0001404
0.195
0.19
0.185
0.18
0.175

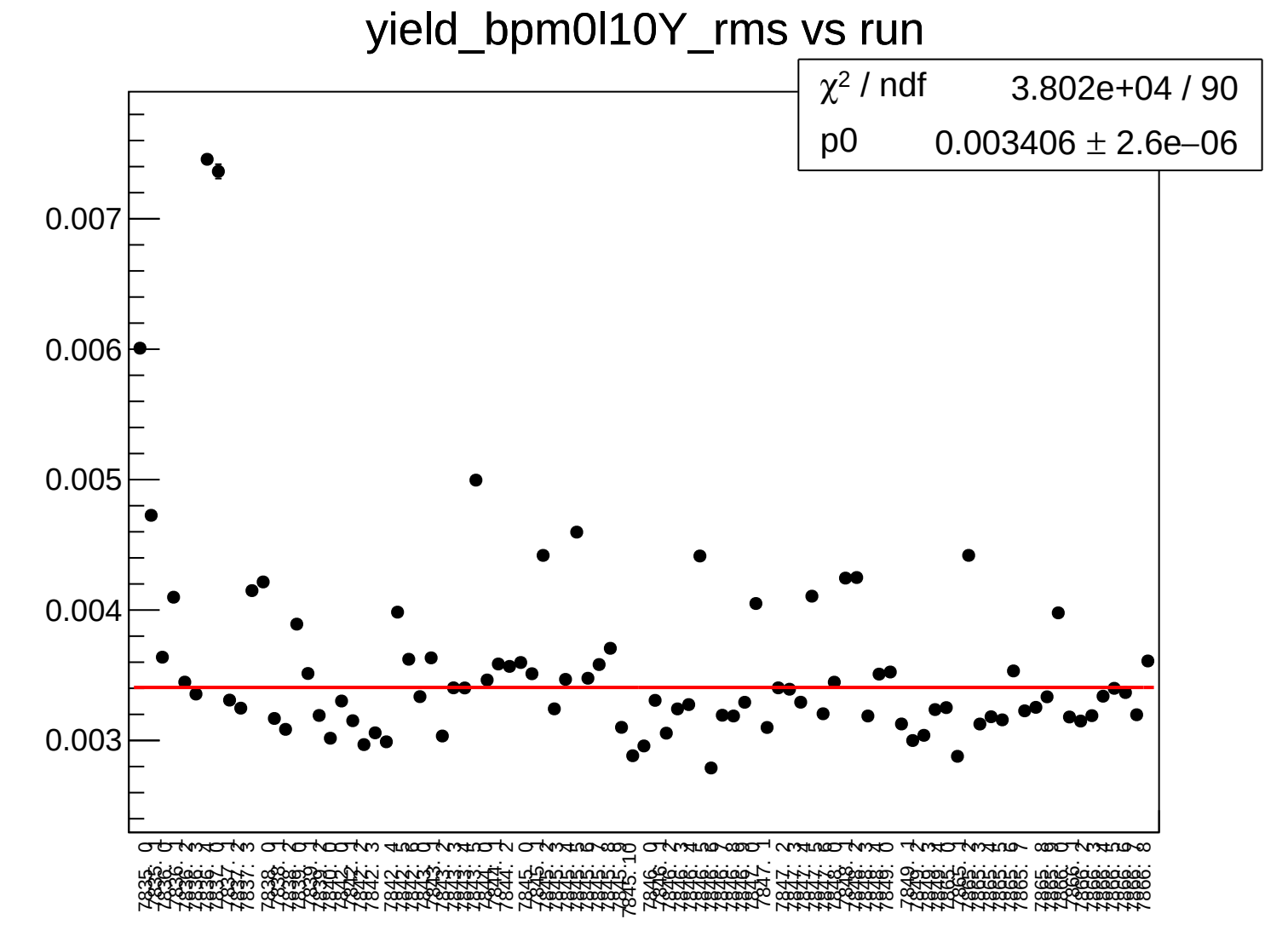

yield_bpm0l10X_mean vs run
χ² / ndf 1.161e+08 / 90
p0 −1.474 ± 1.402e−05
−1.3
−1.4
−1.5
−1.6
−1.7
−1.8
pull
Entries 91
Mean 465.9
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

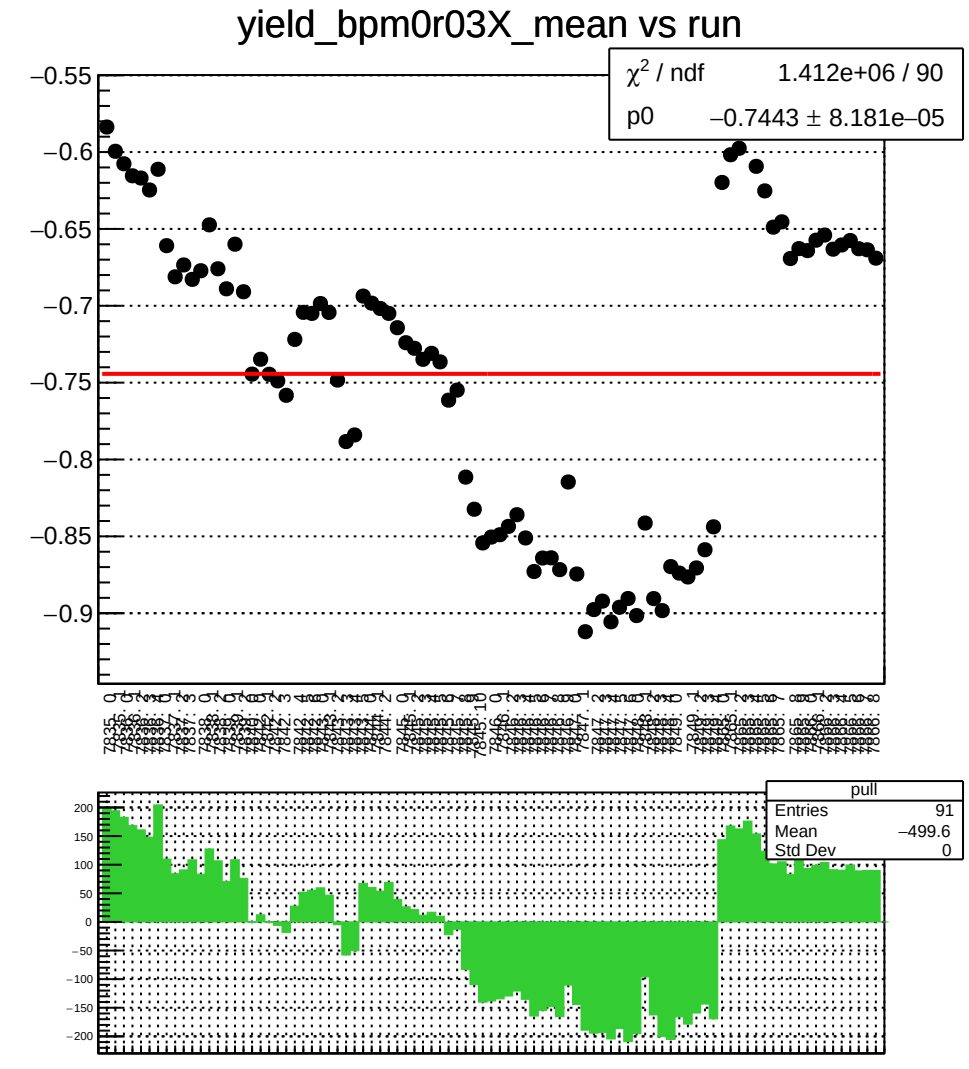

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

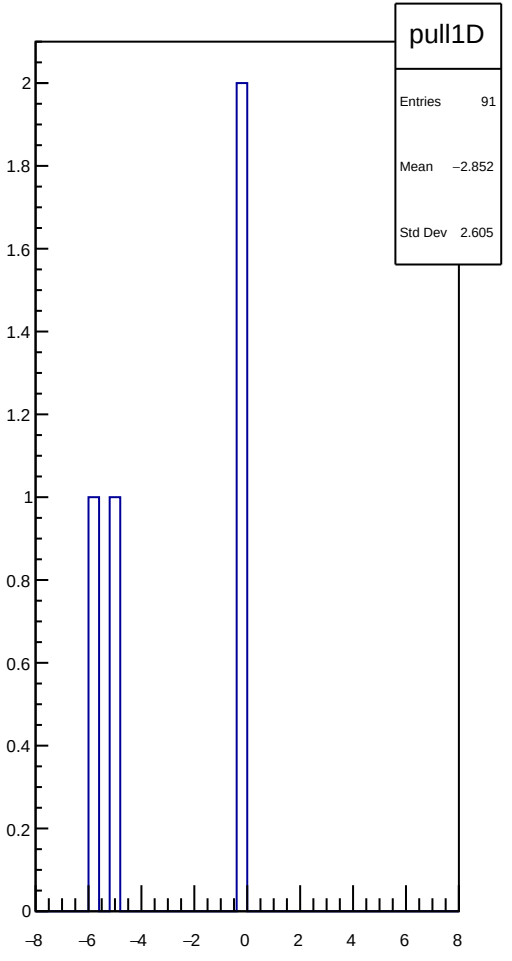

yield_bpm0l10X_rms vs run
χ² / ndf 4.399e+04 / 90
p0 0.01296 ± 9.911e–06
0.035
0.03
0.025
0.02
0.015
0.01

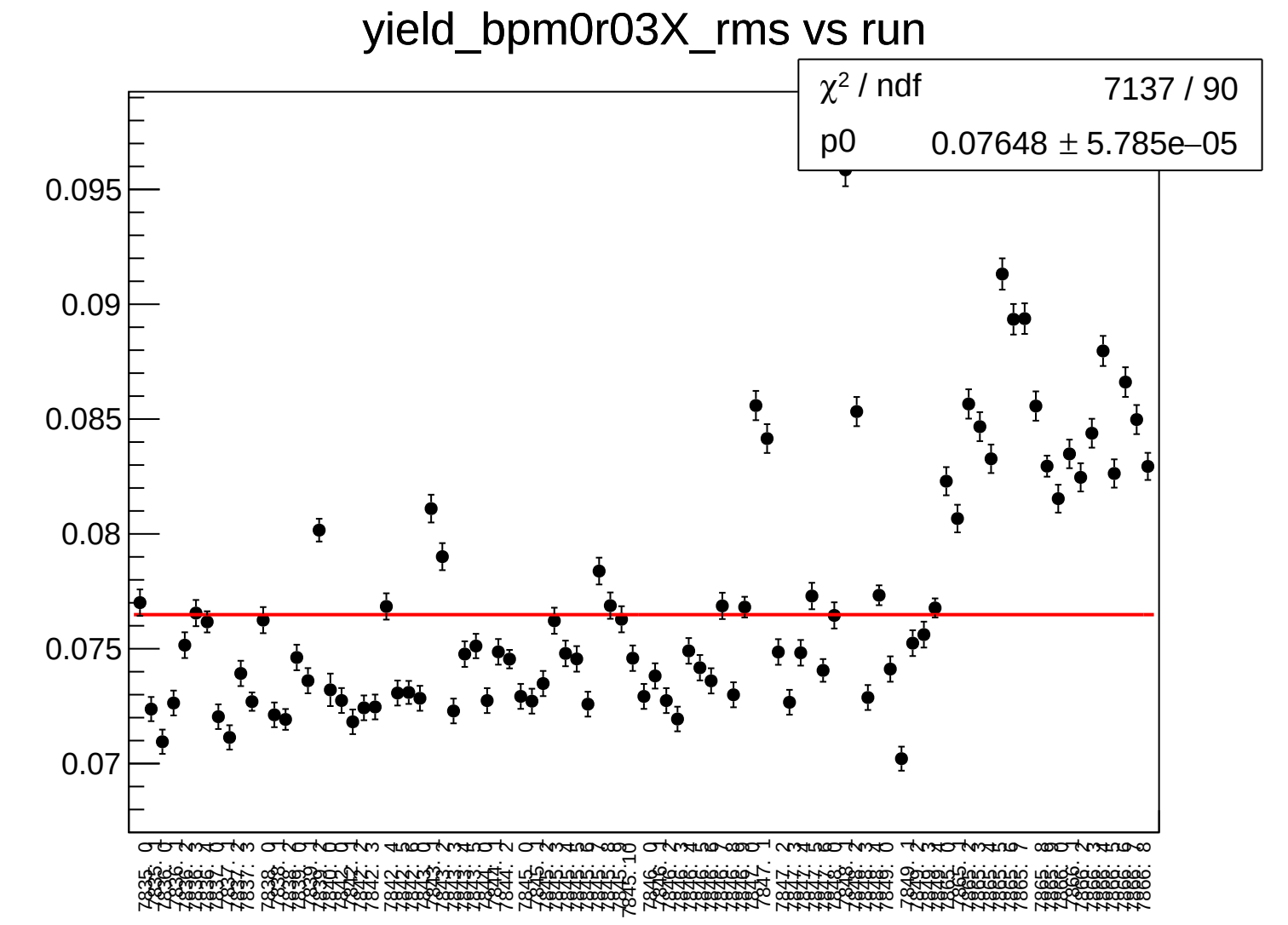

yield_bpm0l10Y_mean vs run
χ² / ndf 5.621e+06 / 90
p0 −0.2491 ± 3.676e−06
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
pull
Entries 91
Mean 836.1
Std Dev 0
600
400
200
0
−200
−400
−600

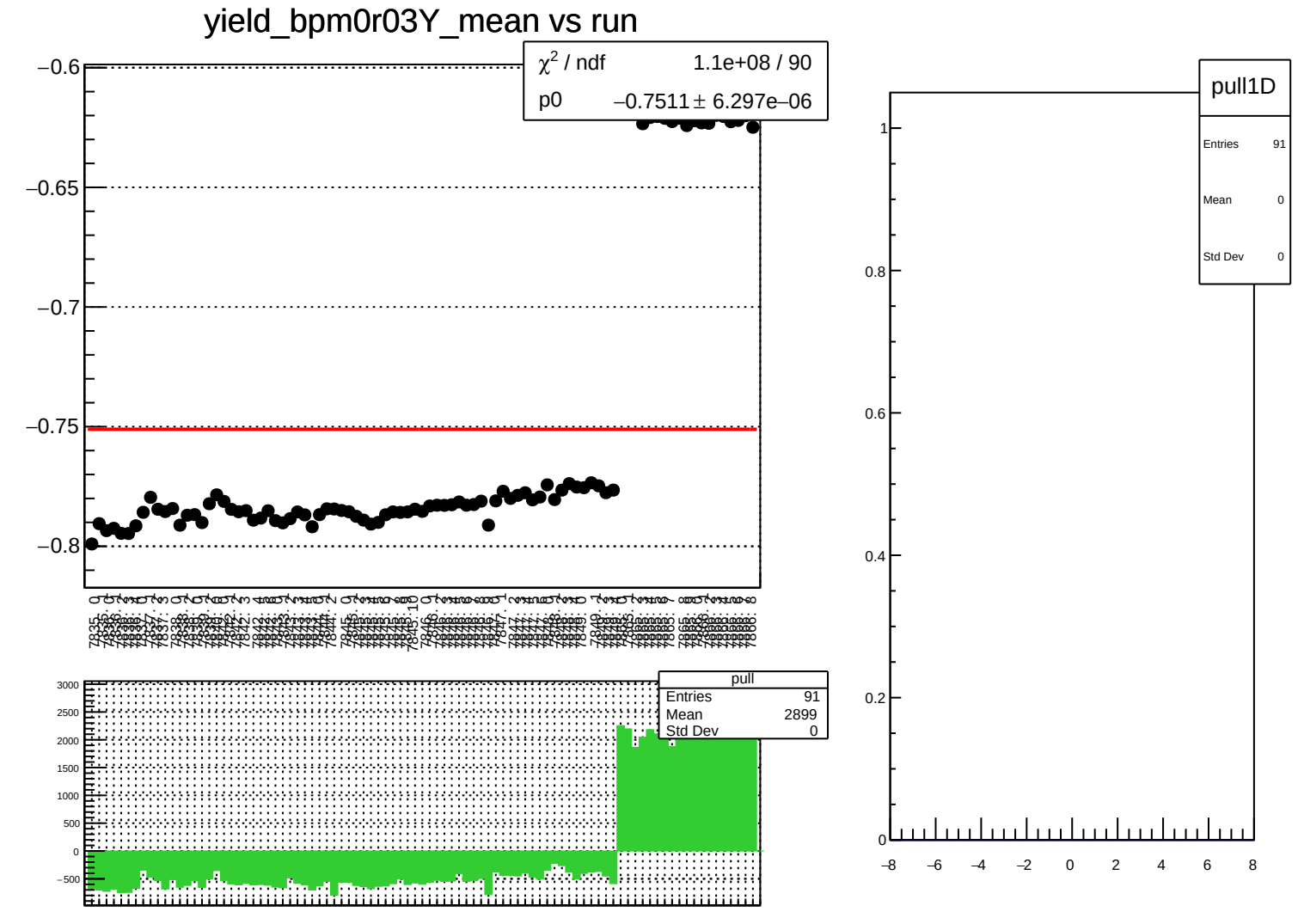

pull1D
Entries 91
Mean 3.925
Std Dev 1.385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

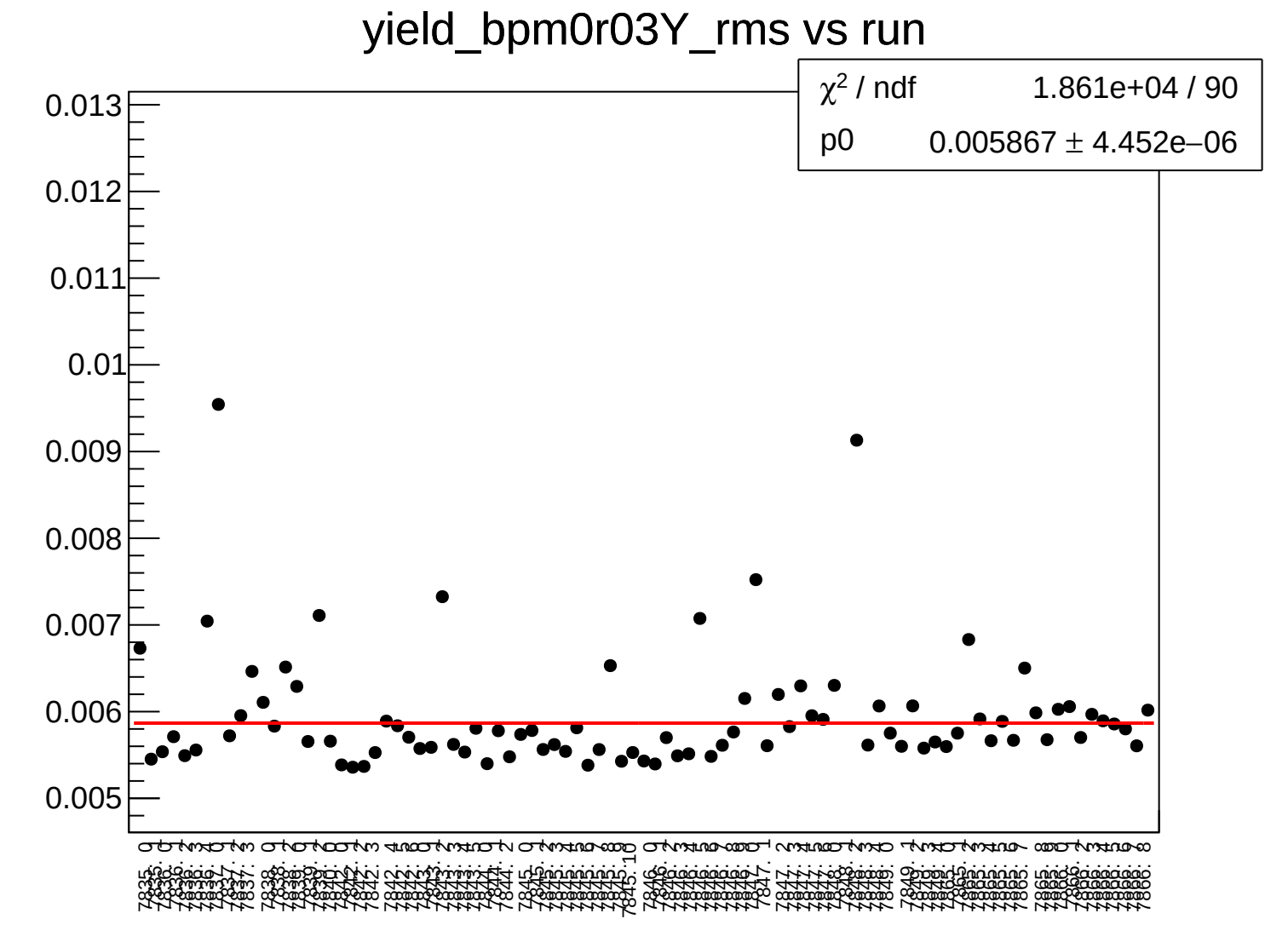

yield_bpm0l10Y_rms vs run
χ² / ndf 3.802e+04 / 90
p0 0.003406 ± 2.6e−06
0.007
0.006
0.005
0.004
0.003

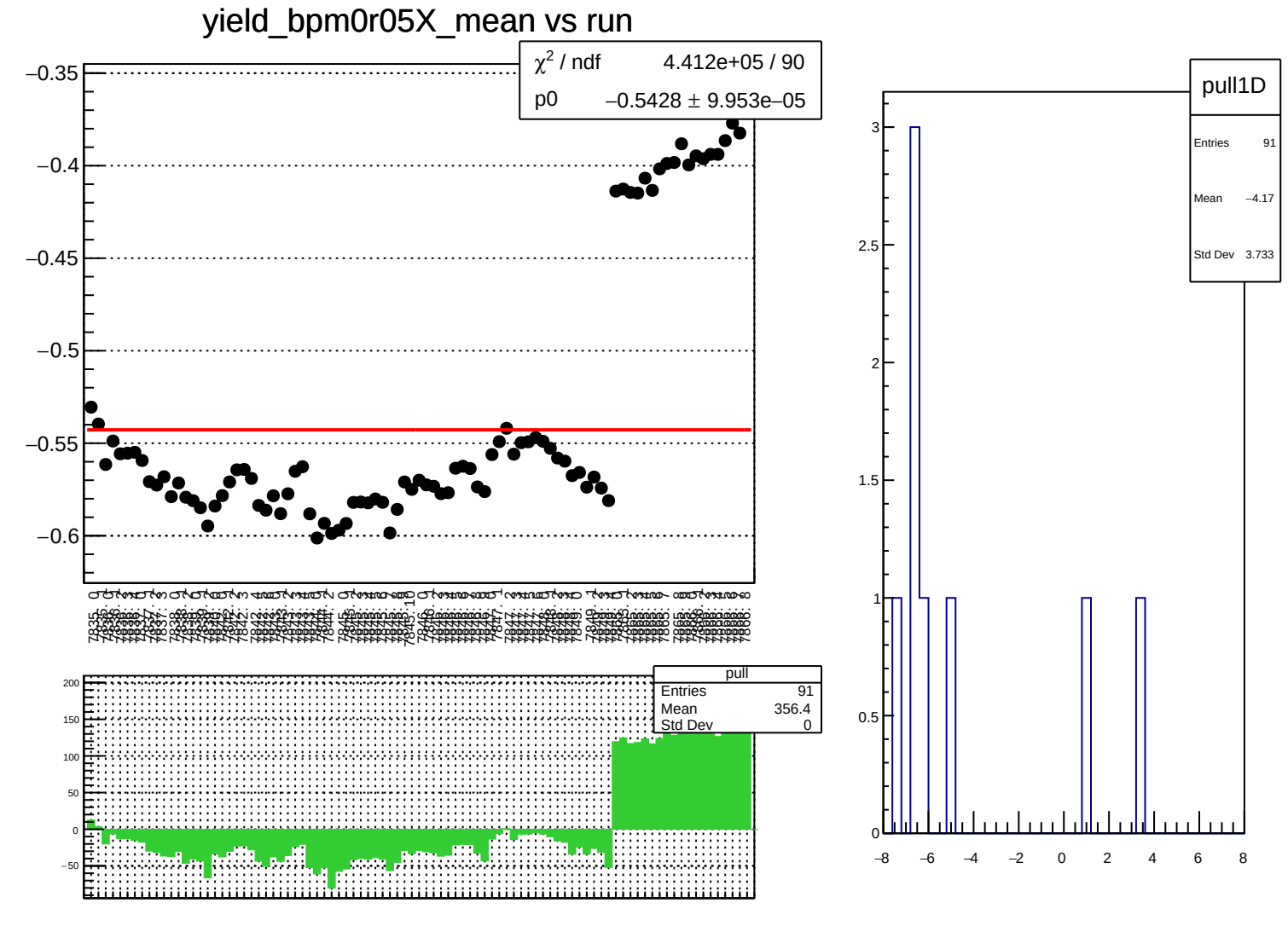

yield_bpm0r03X_mean vs run
χ² / ndf 1.412e+06 / 90
p0 −0.7443 ± 8.181e−05
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 91
Mean −499.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

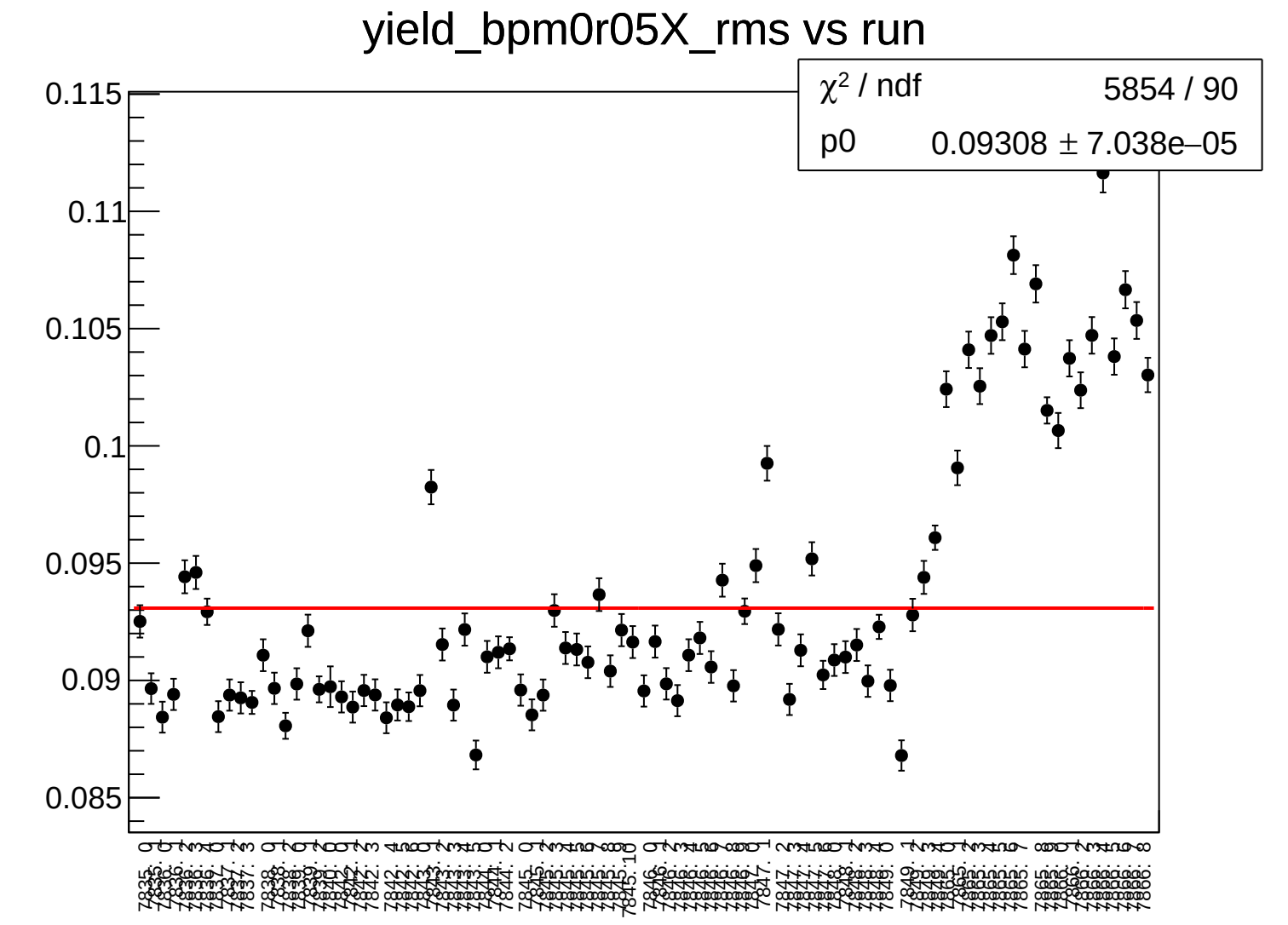

pull1D
Entries 91
Mean −2.852
Std Dev 2.605
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

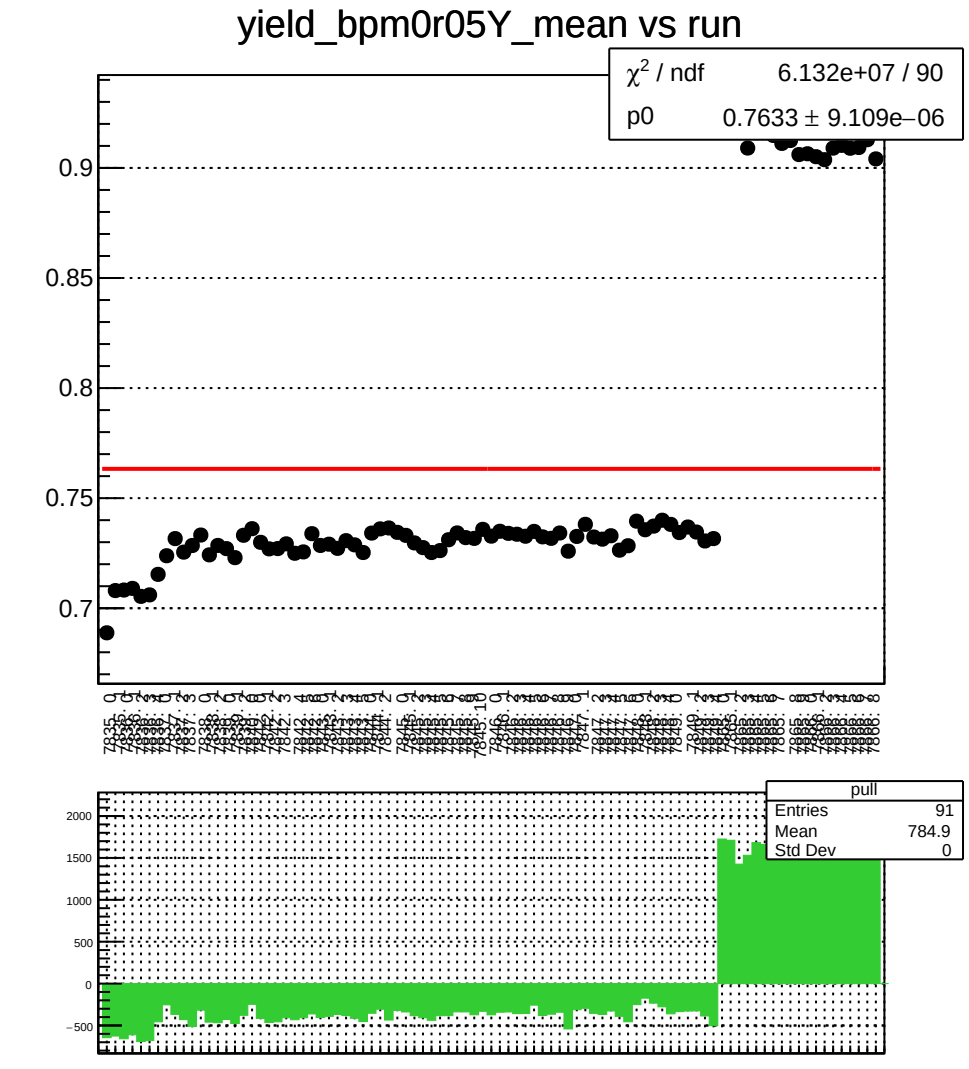

yield_bpm0r03X_rms vs run
χ² / ndf 7137 / 90
p0 0.07648 ± 5.785e–05
0.095
0.09
0.085
0.08
0.075
0.07

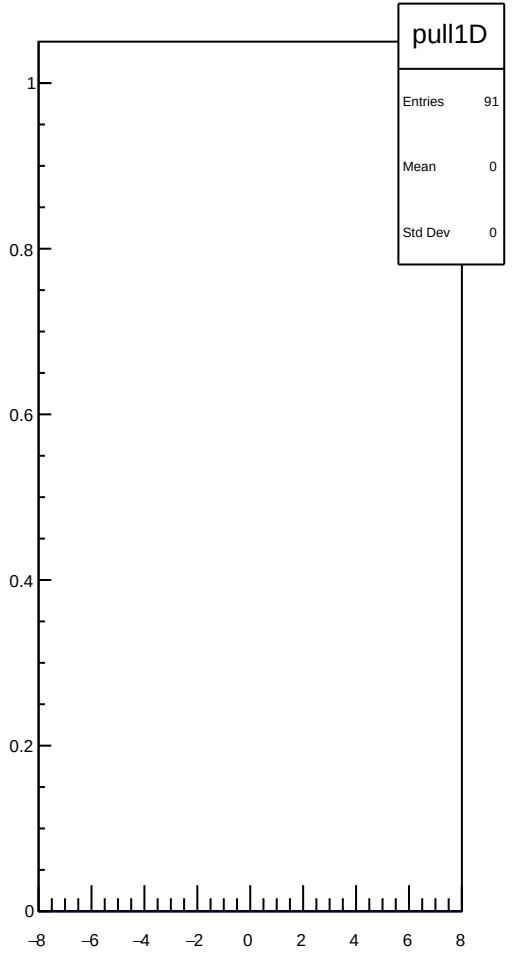

yield_bpm0r03Y_mean vs run
χ² / ndf 1.1e+08 / 90
p0 −0.7511 ± 6.297e−06
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 91
Mean 2899
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

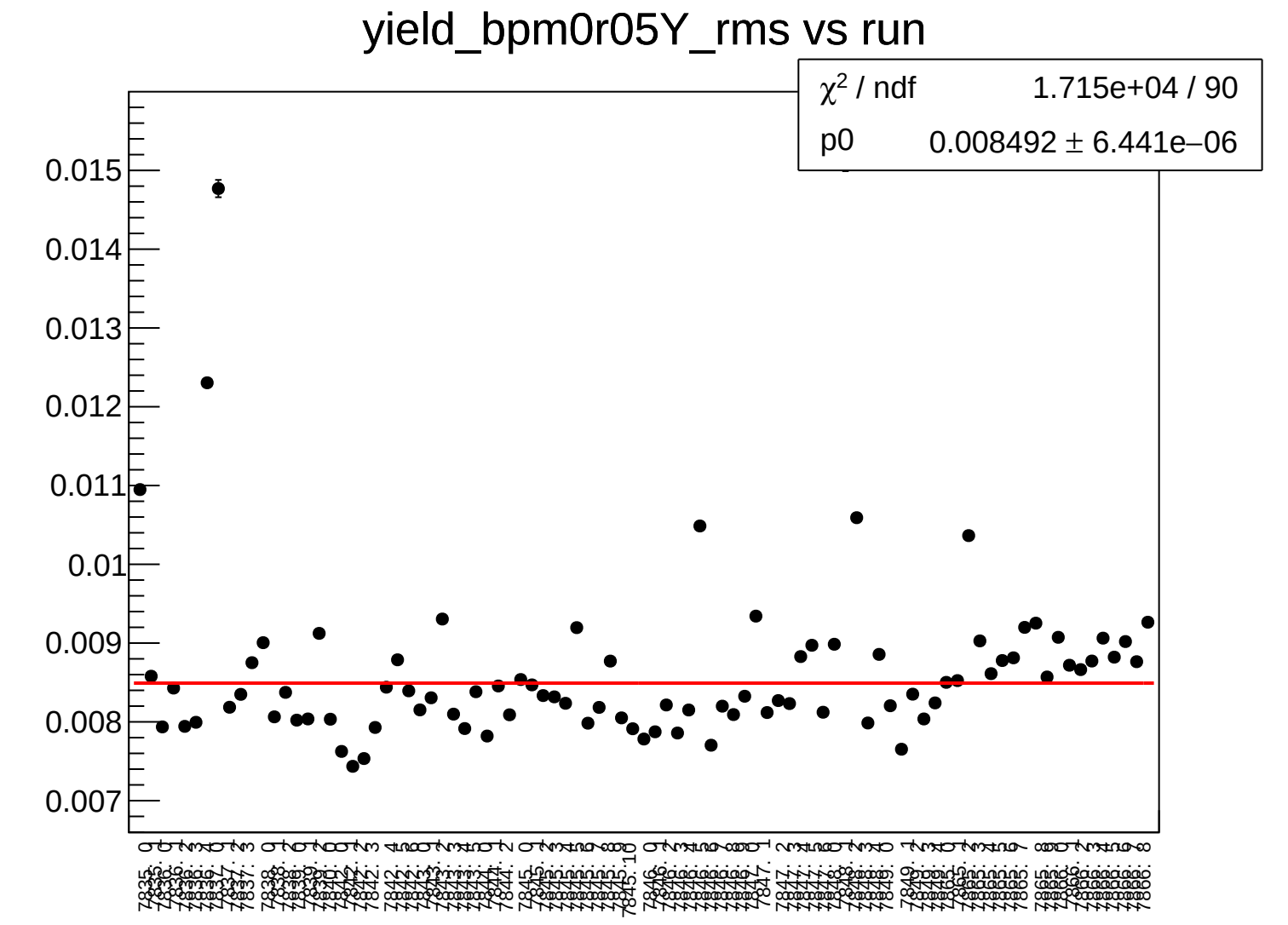

yield_bpm0r03Y_rms vs run
χ^2 / ndf 1.861e+04 / 90
p0 0.005867 ± 4.452e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

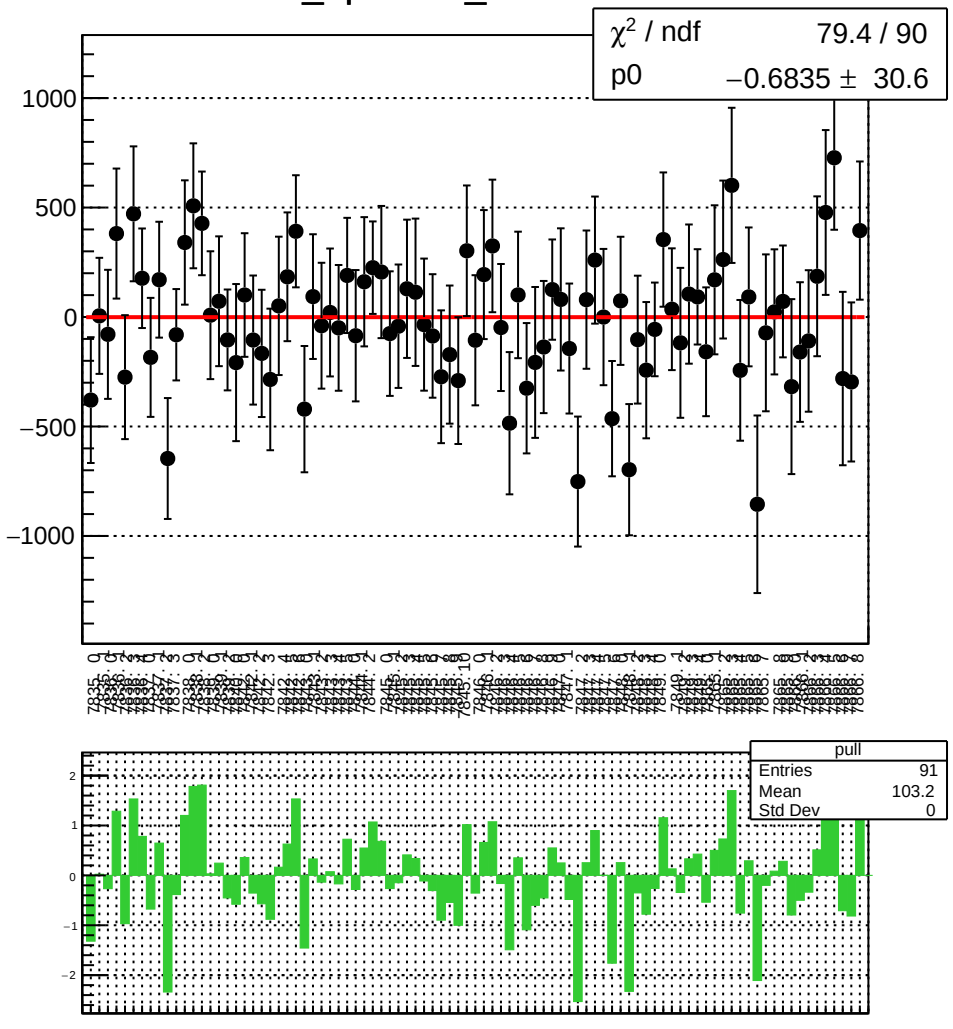

yield_bpm0r05X_mean vs run
χ² / ndf 4.412e+05 / 90
p0 −0.5428 ± 9.953e−05
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 91
Mean 356.4
Std Dev 0
200
150
100
50
0
−50
pull1D
Entries 91
Mean −4.17
Std Dev 3.733
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

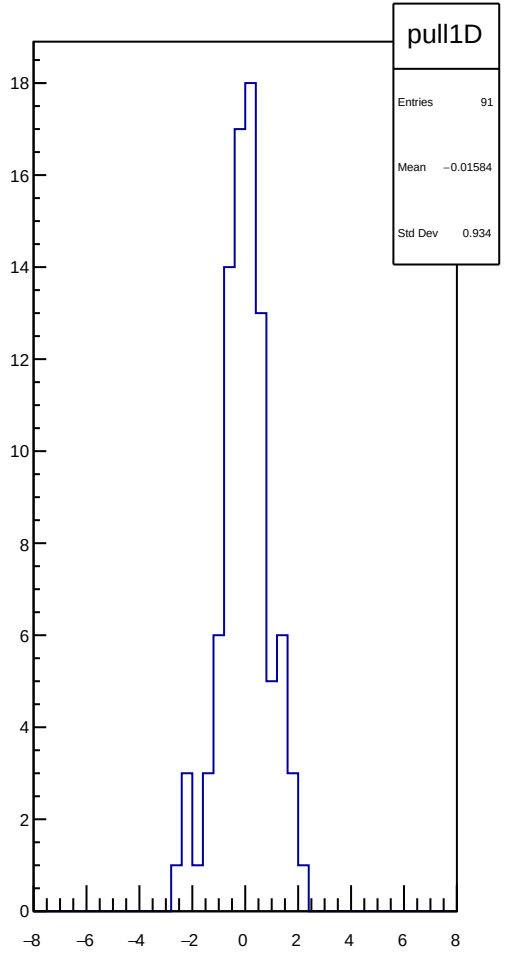

yield_bpm0r05X_rms vs run
χ² / ndf 5854 / 90
p0 0.09308 ± 7.038e−05
0.115
0.11
0.105
0.1
0.095
0.09
0.085

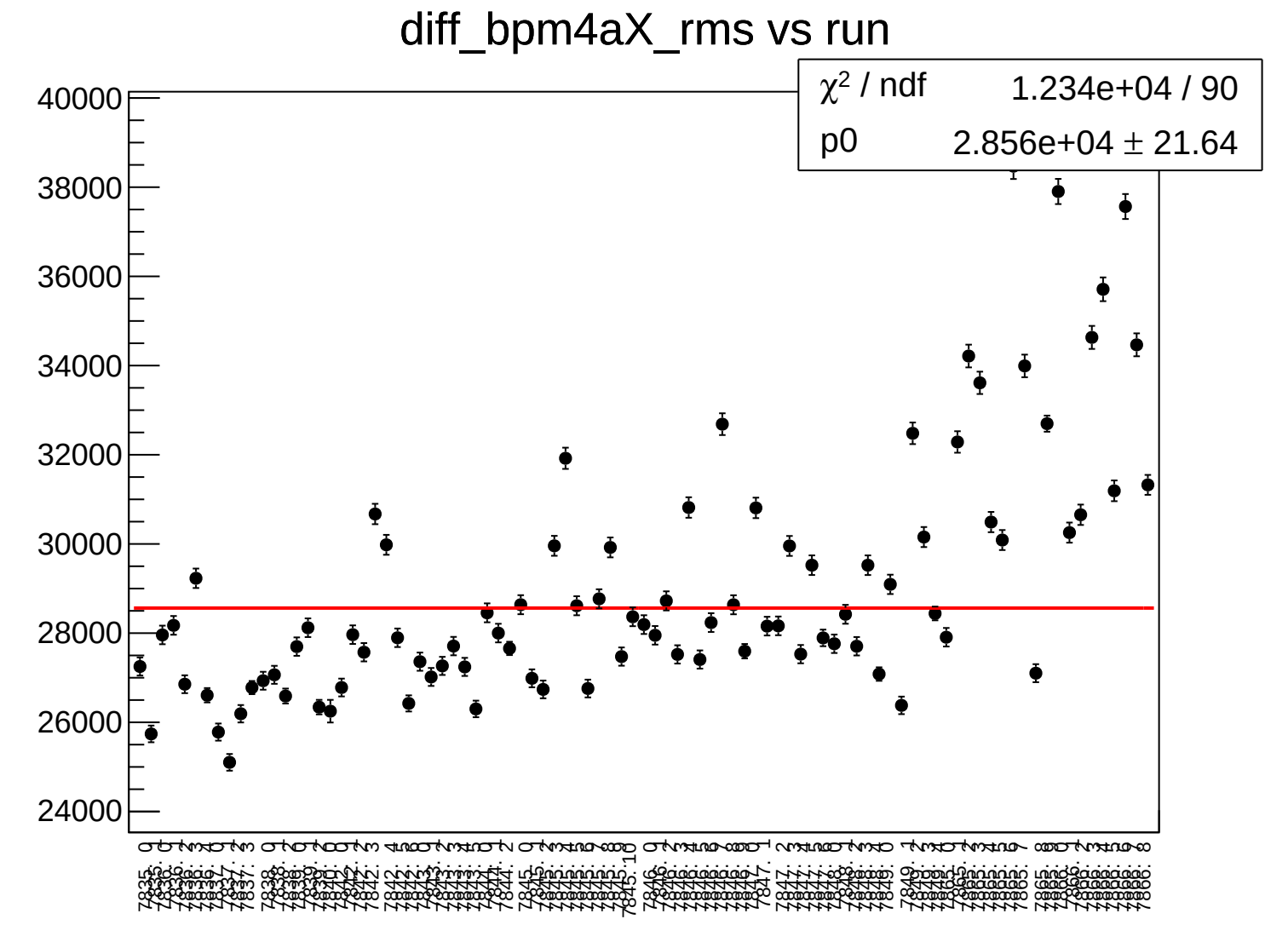

yield_bpm0r05Y_mean vs run
χ² / ndf 6.132e+07 / 90
p0 0.7633 ± 9.109e−06
0.9
0.85
0.8
0.75
0.7
pull
Entries 91
Mean 784.9
Std Dev 0
2000
1500
1000
500
0
−500

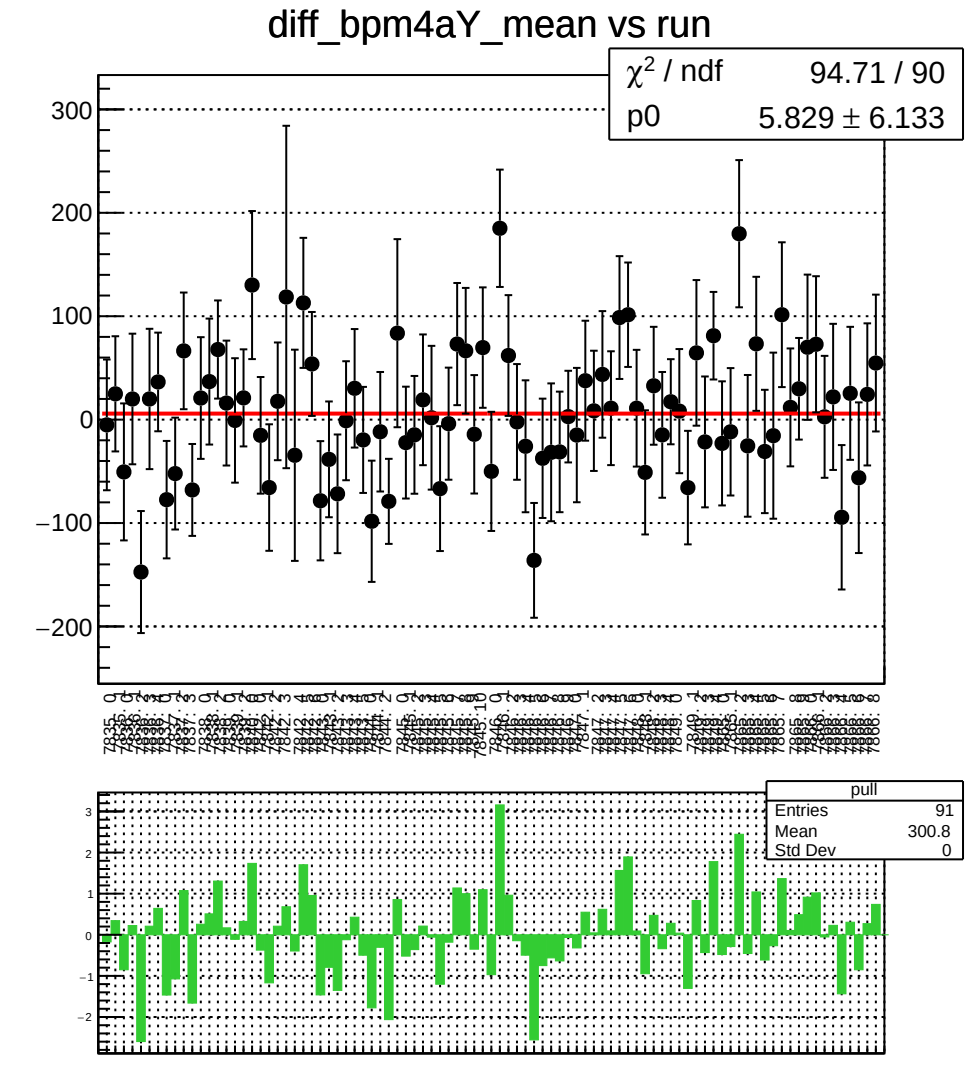

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

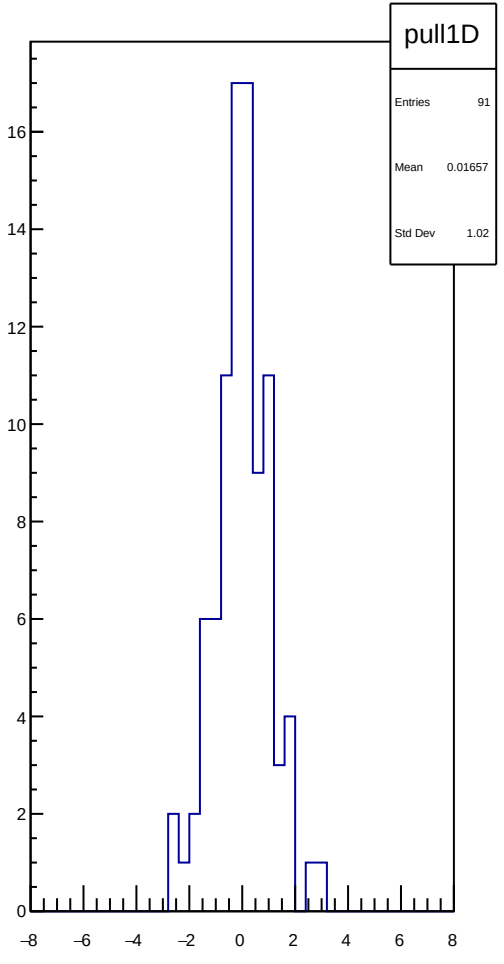

yield_bpm0r05Y_rms vs run
χ² / ndf 1.715e+04 / 90
p0 0.008492 ± 6.441e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

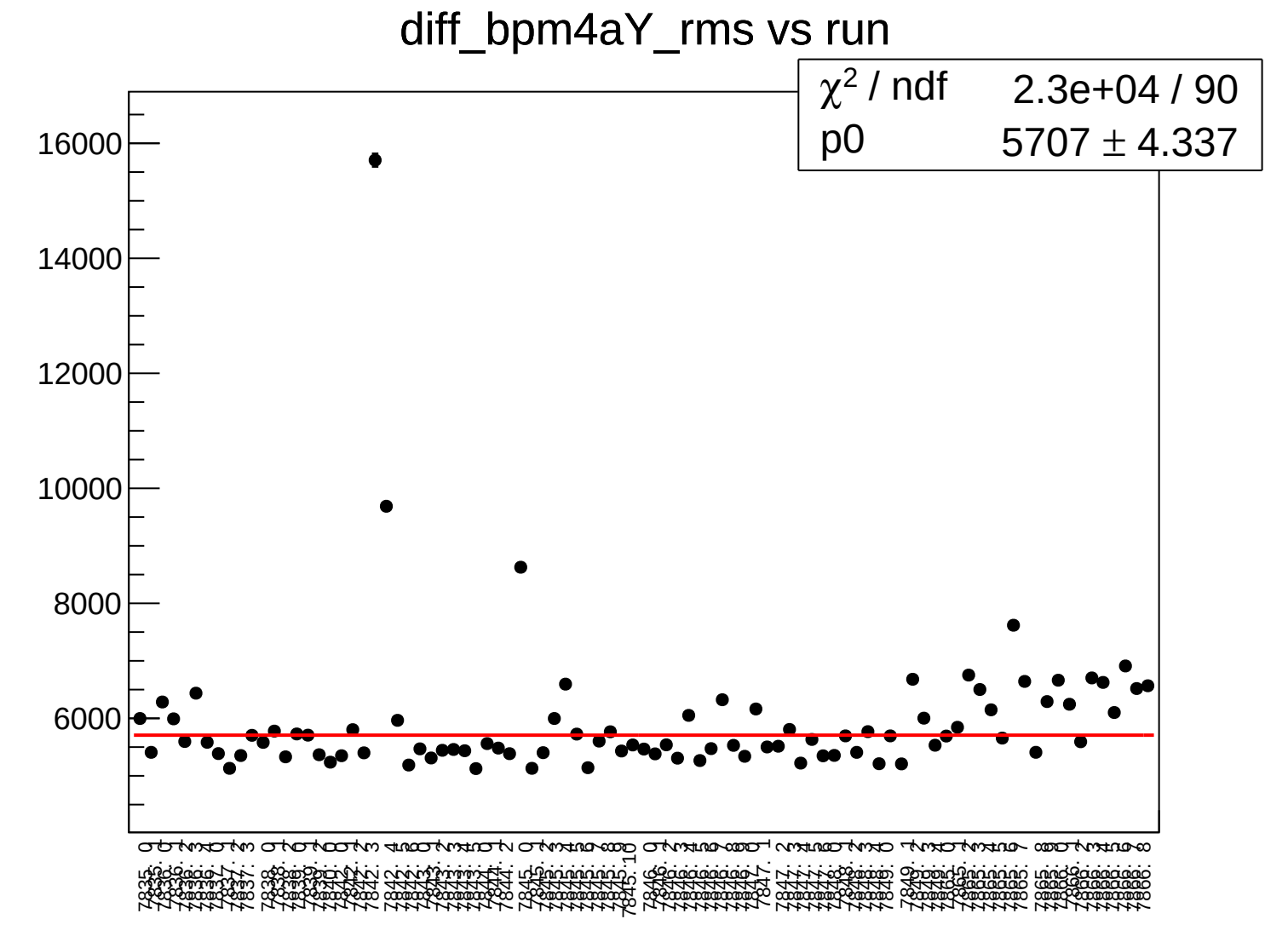

diff_bpm4aX_mean vs run
χ² / ndf 79.4 / 90
p0 −0.6835 ± 30.6
1000
500
0
−500
−1000
pull
Entries 91
Mean 103.2
Std Dev 0
2
1
0
−1
−2

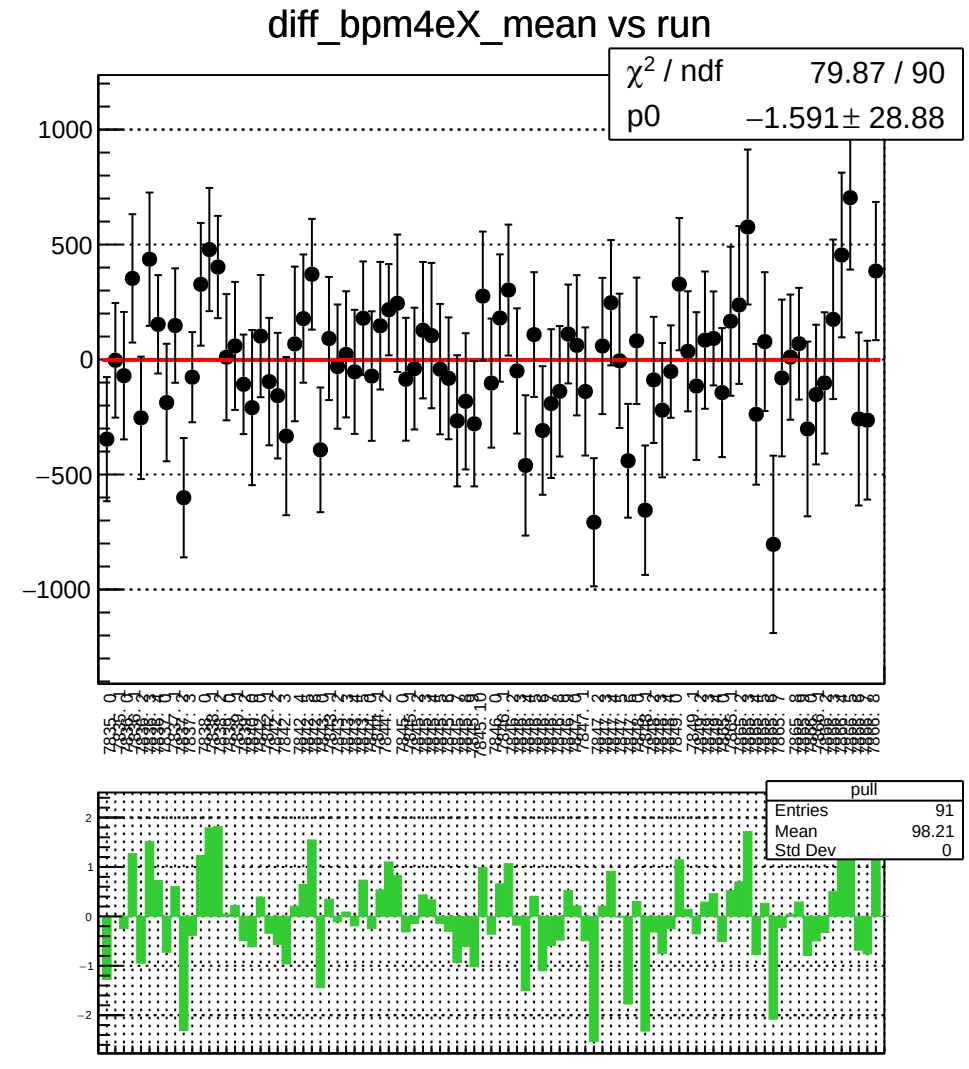

pull1D
Entries 91
Mean −0.01584
Std Dev 0.934
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

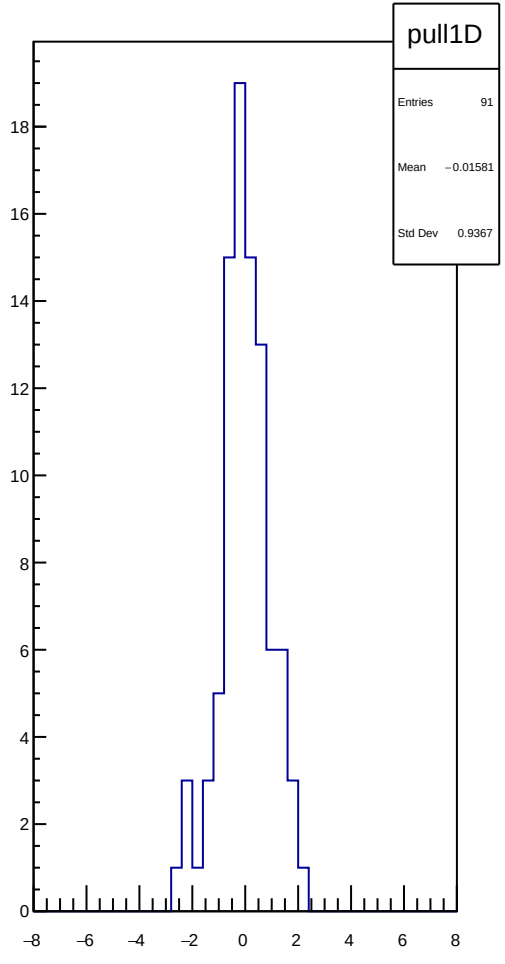

diff_bpm4aX_rms vs run
χ^2 / ndf 1.234e+04 / 90
p0 2.856e+04 ± 21.64
40000
38000
36000
34000
32000
30000
28000
26000
24000

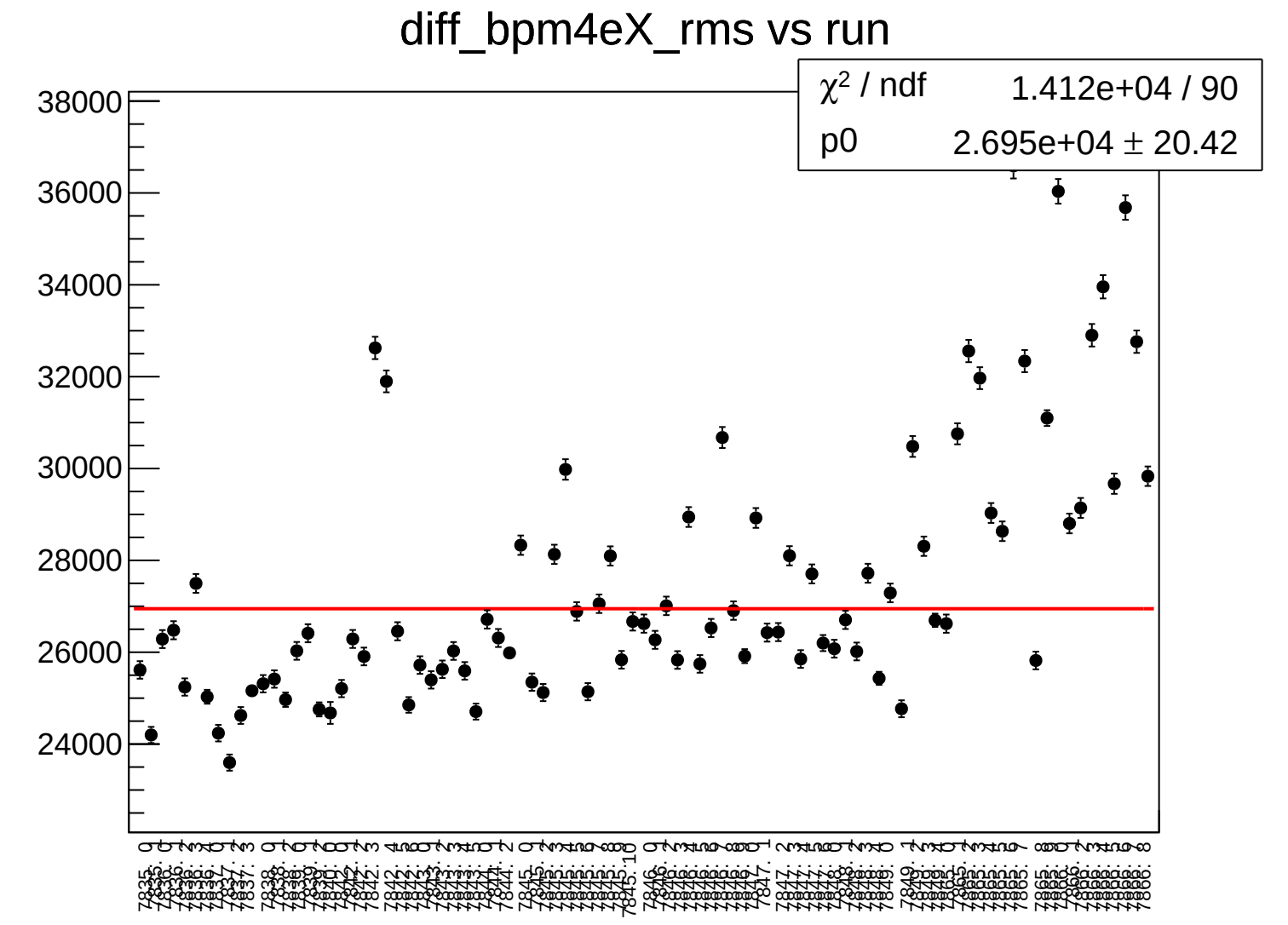

diff_bpm4aY_mean vs run
χ² / ndf 94.71 / 90
p0 5.829 ± 6.133
300
200
100
0
−100
−200
pull
Entries 91
Mean 300.8
Std Dev 0
3
2
1
0
−1
−2

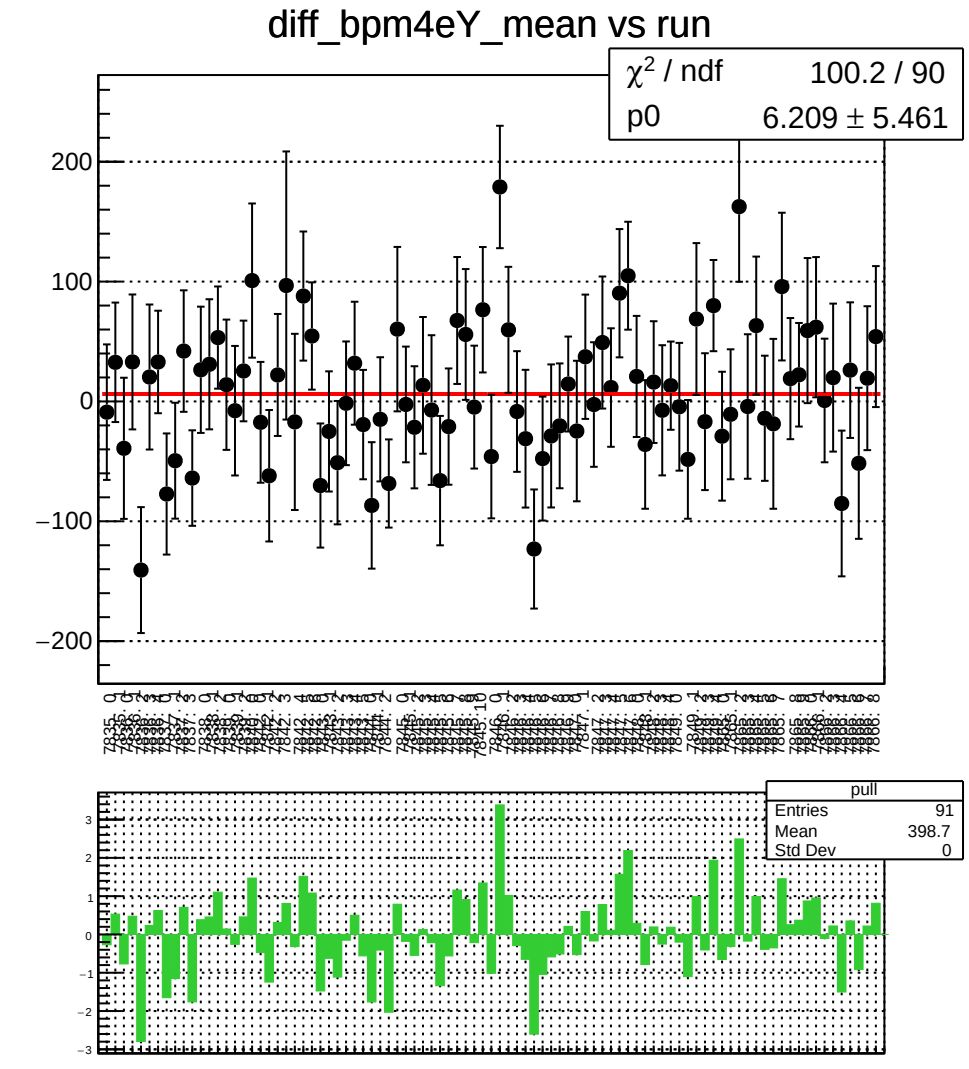

pull1D
Entries 91
Mean 0.01657
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

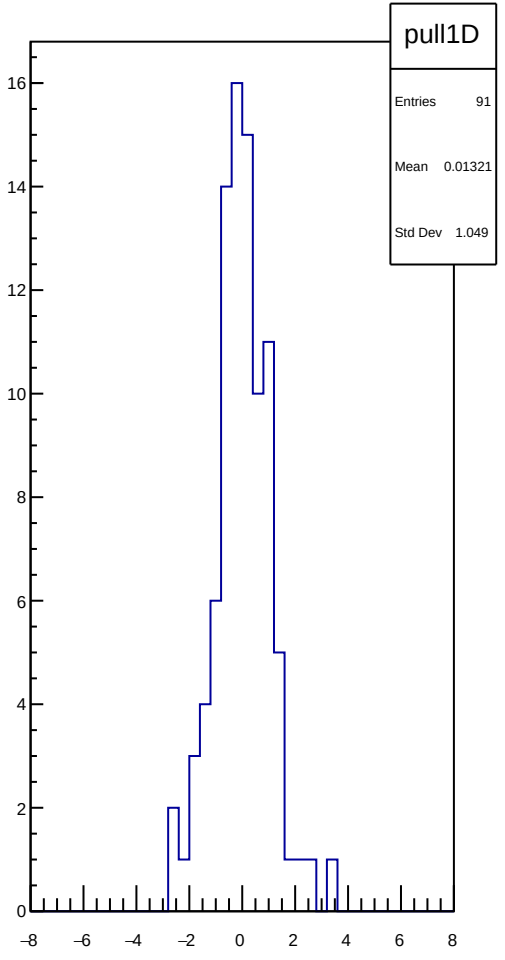

diff_bpm4aY_rms vs run
χ² / ndf 2.3e+04 / 90
p0 5707 ± 4.337
16000
14000
12000
10000
8000
6000

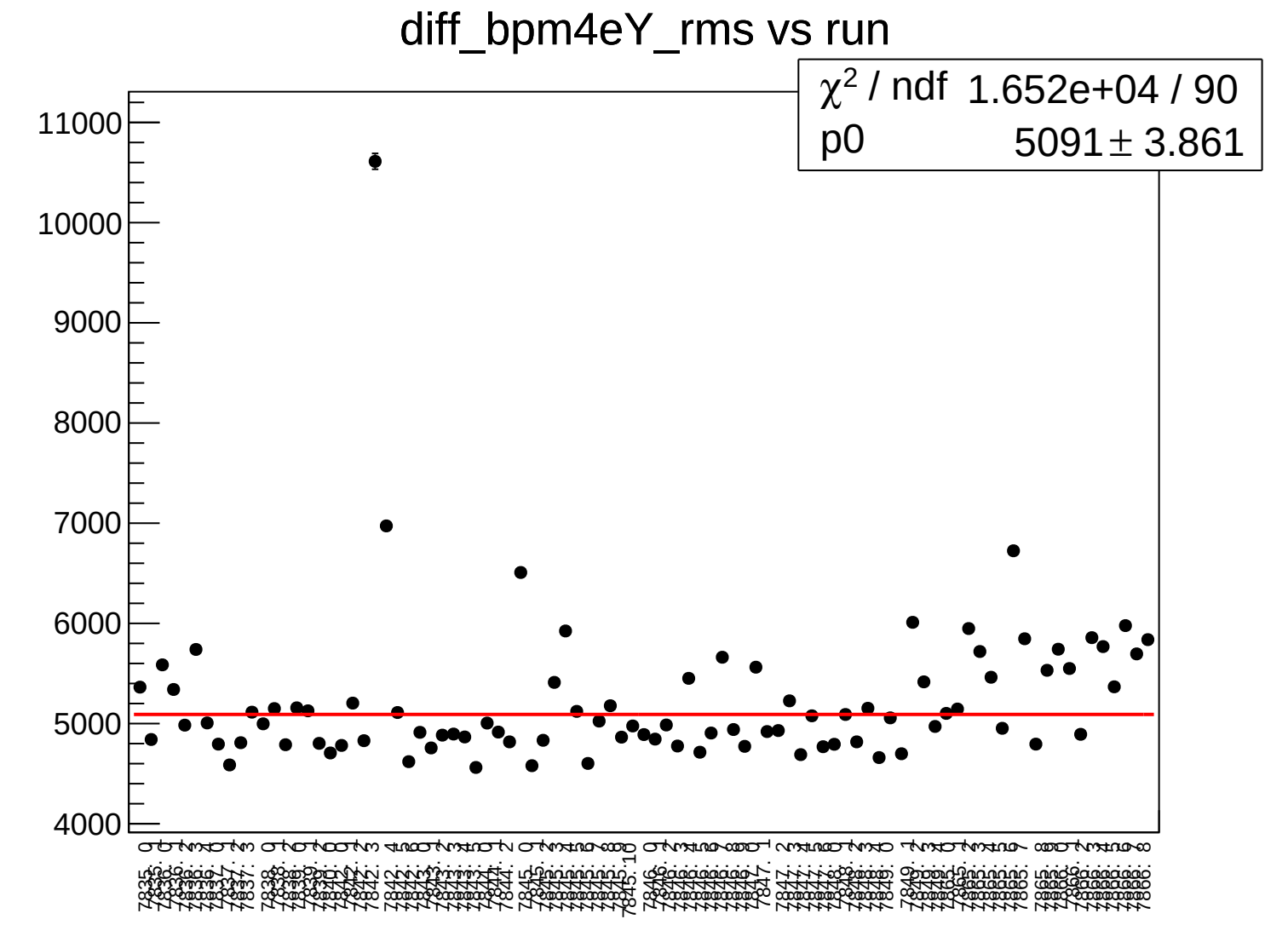

diff_bpm4eX_mean vs run
χ² / ndf 79.87 / 90
p0 −1.591 ± 28.88
1000
500
0
−500
−1000
pull
Entries 91
Mean 98.21
Std Dev 0
2
1
0
−1
−2

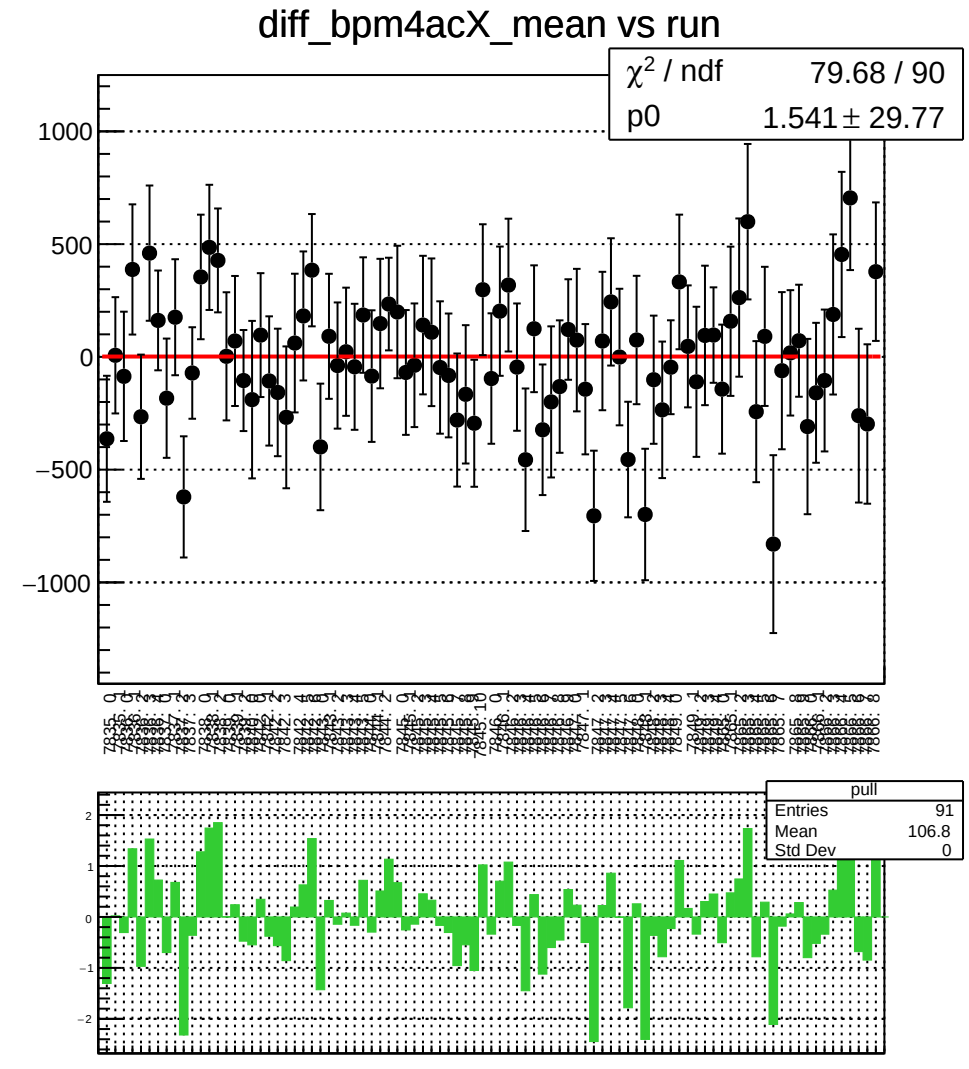

pull1D
Entries 91
Mean −0.01581
Std Dev 0.9367
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

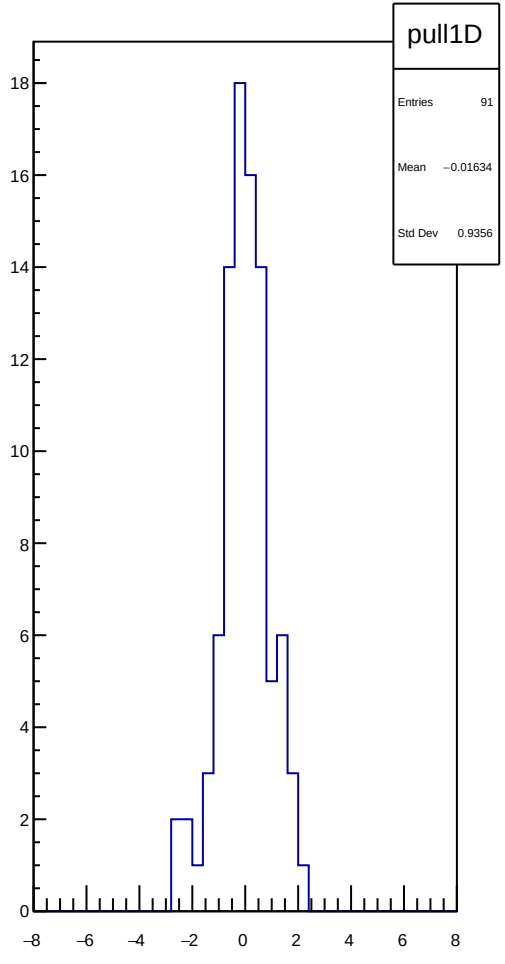

diff_bpm4eX_rms vs run
χ² / ndf 1.412e+04 / 90
p0 2.695e+04 ± 20.42
38000
36000
34000
32000
30000
28000
26000
24000


diff_bpm4eY_mean vs run
χ² / ndf 100.2 / 90
p0 6.209 ± 5.461
200
100
0
−100
−200
pull
Entries 91
Mean 398.7
Std Dev 0
3
2
1
0
−1
−2
−3

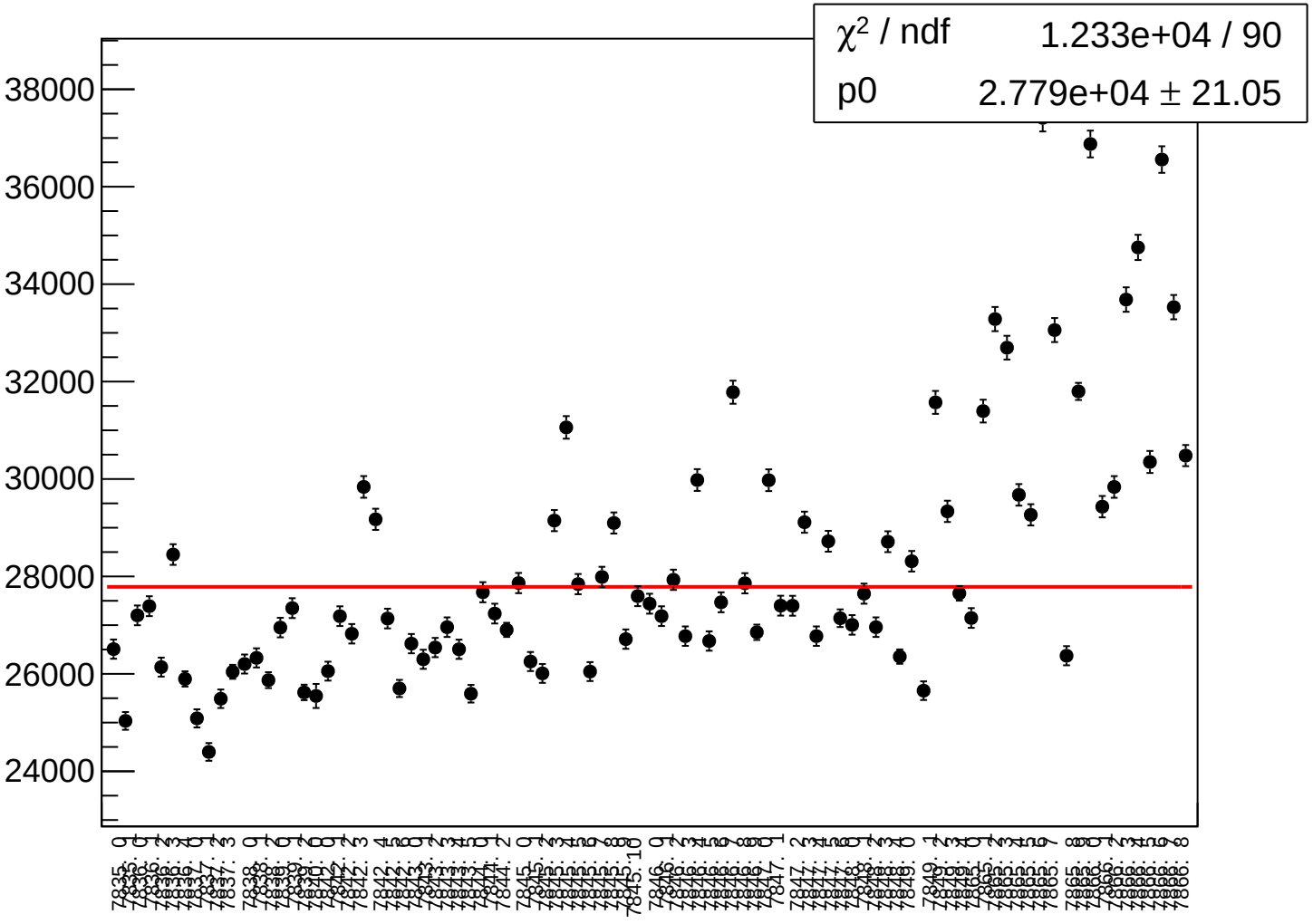

pull1D
Entries 91
Mean 0.01321
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

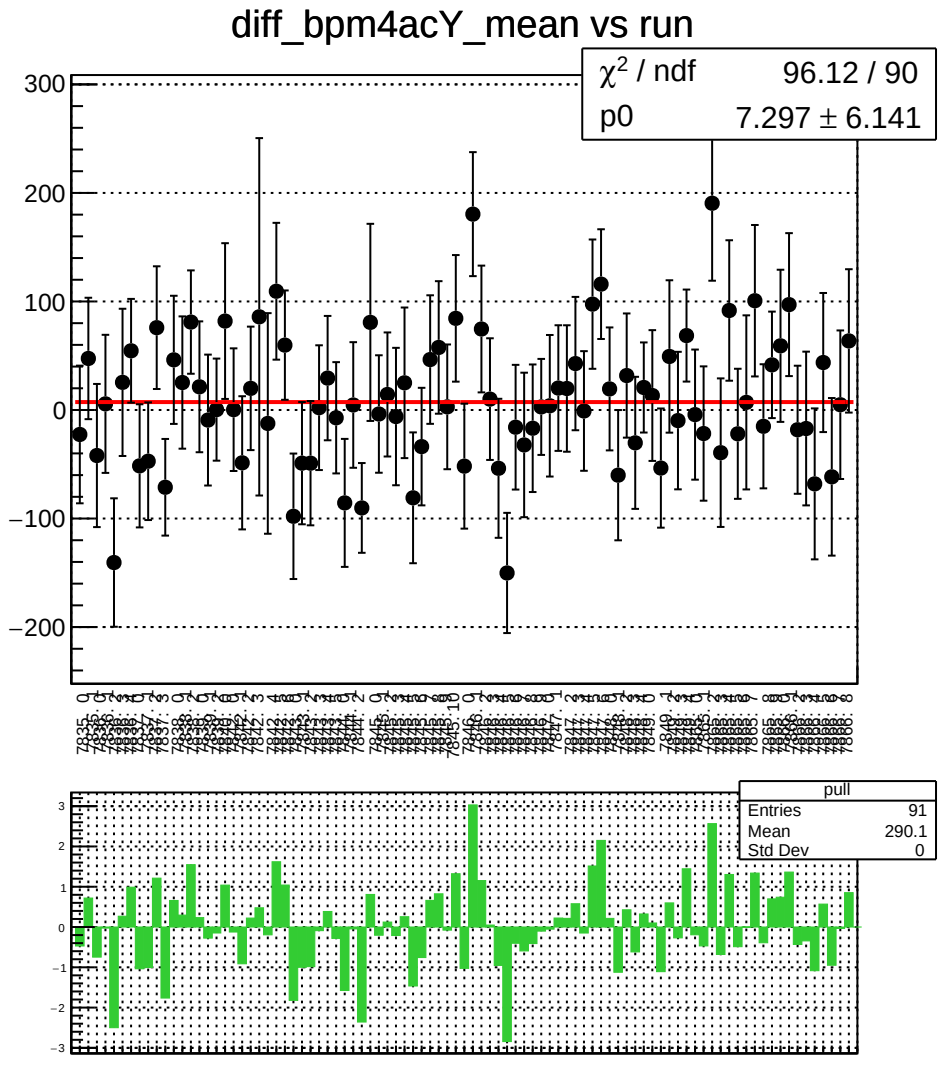

diff_bpm4eY_rms vs run
χ^2 / ndf 1.652e+04 / 90
p0 5091 ± 3.861
11000
10000
9000
8000
7000
6000
5000
4000

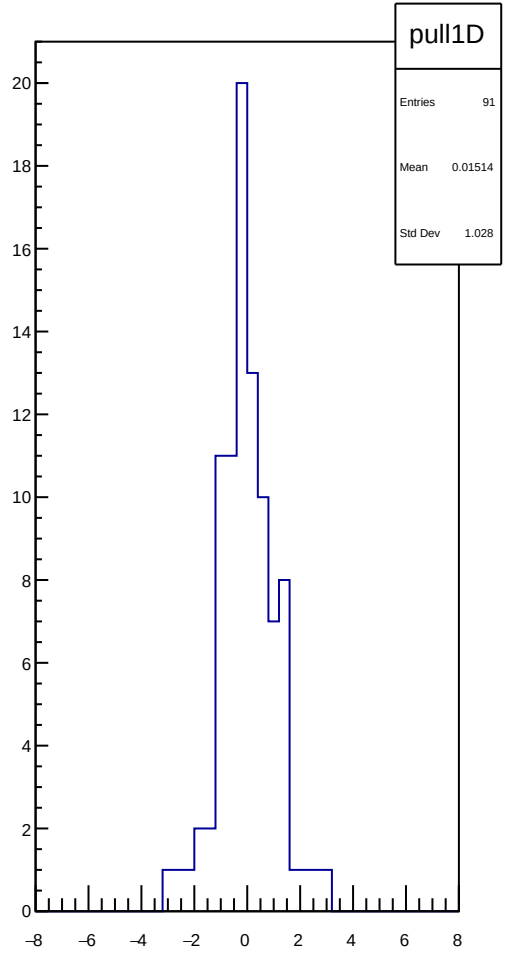

diff_bpm4acX_mean vs run
χ² / ndf 79.68 / 90
p0 1.541 ± 29.77
1000
500
0
−500
−1000
pull
Entries 91
Mean 106.8
Std Dev 0
2
1
0
−1
−2

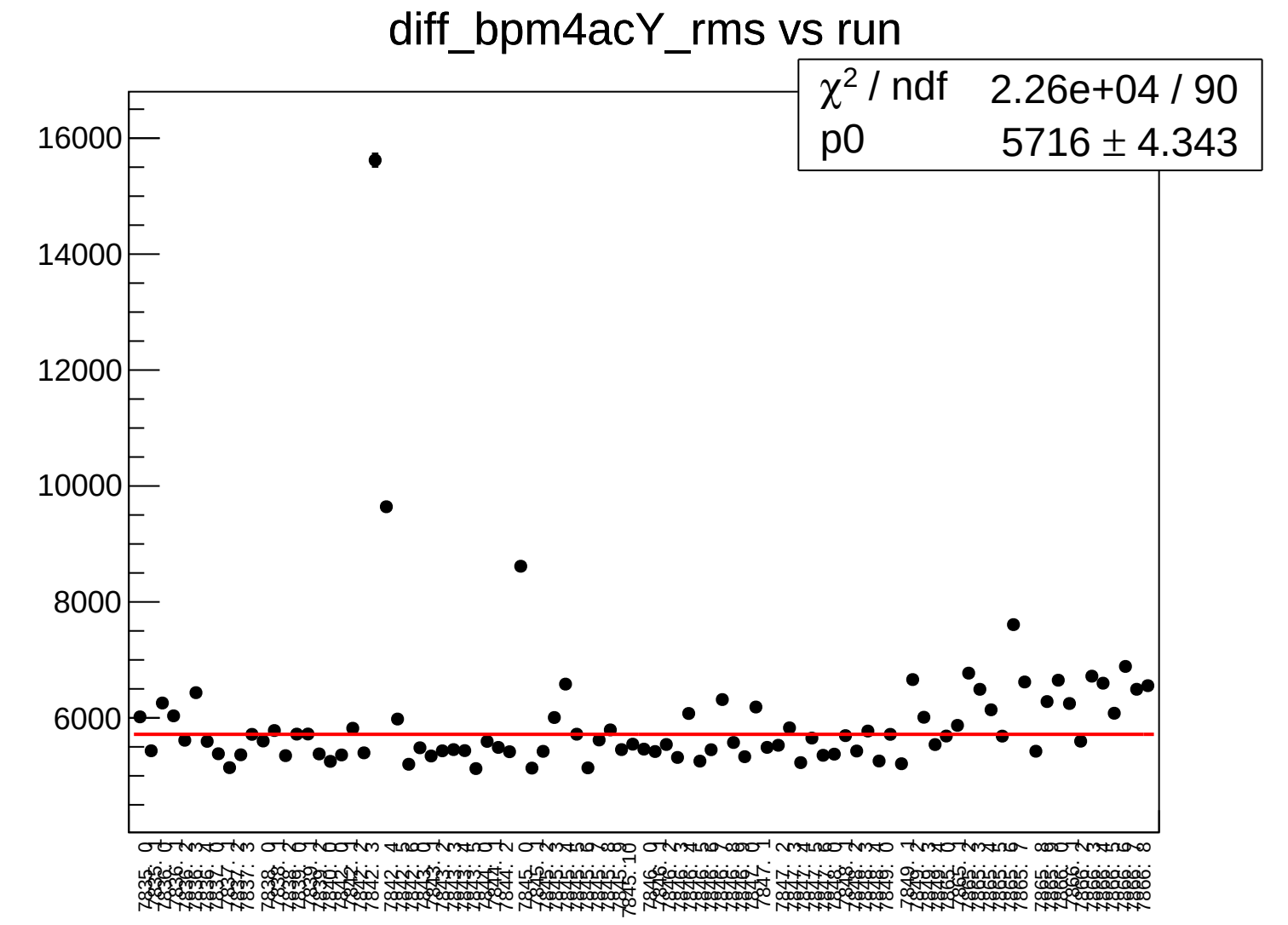

pull1D
Entries 91
Mean −0.01634
Std Dev 0.9356
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

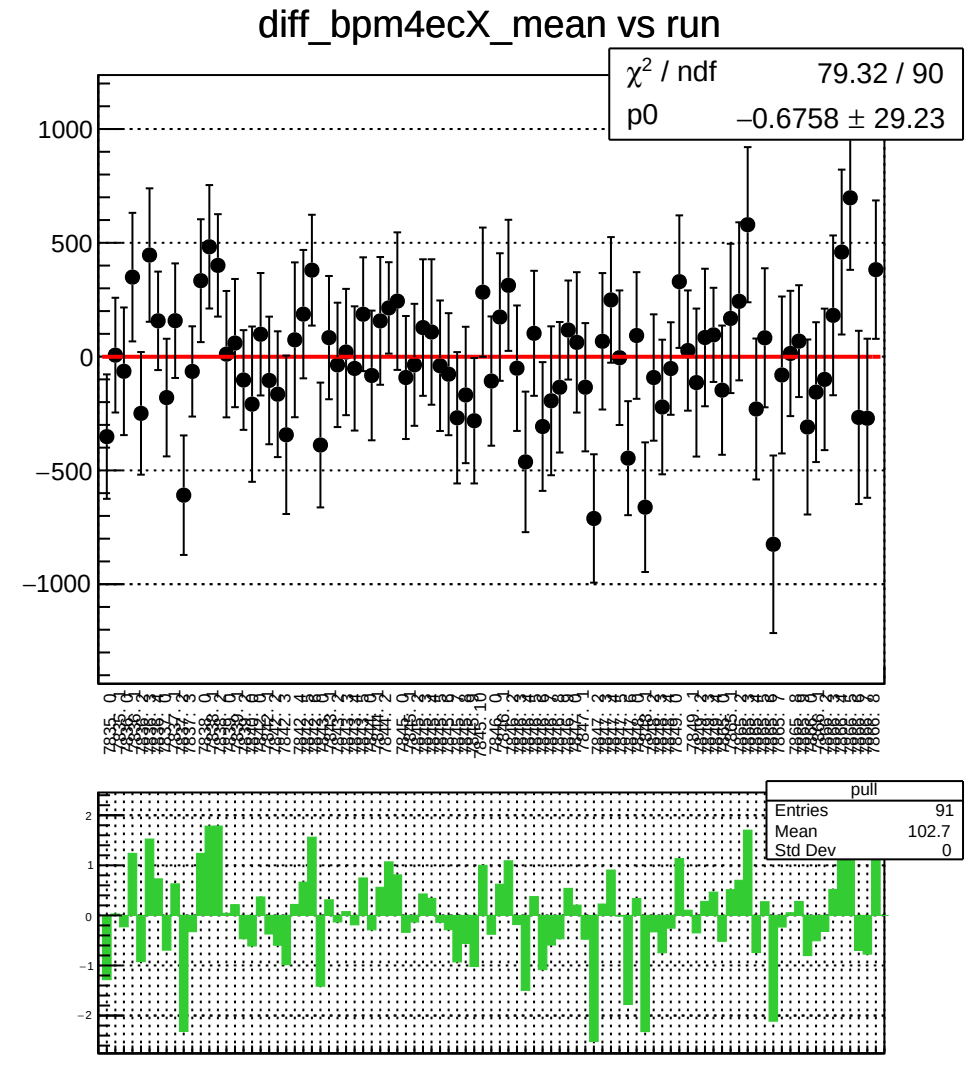
diff_bpm4acX_rms vs run

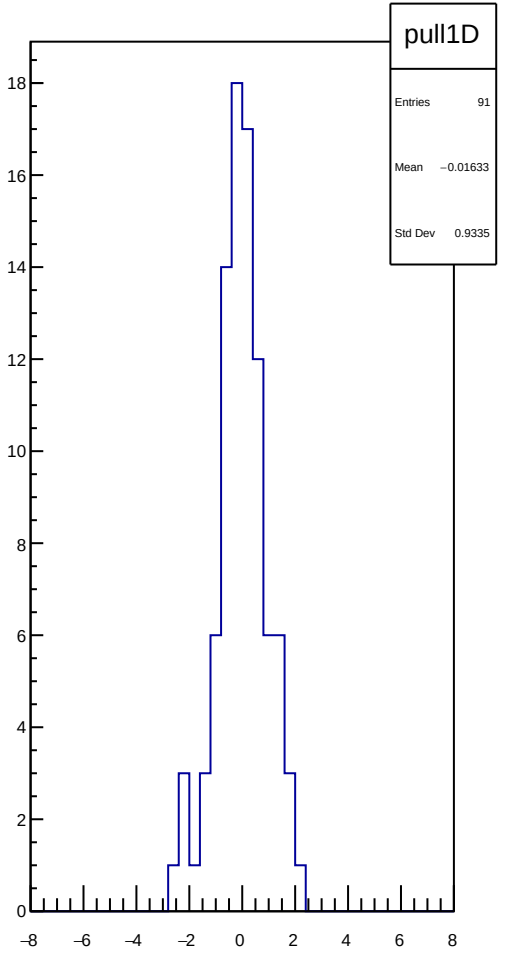


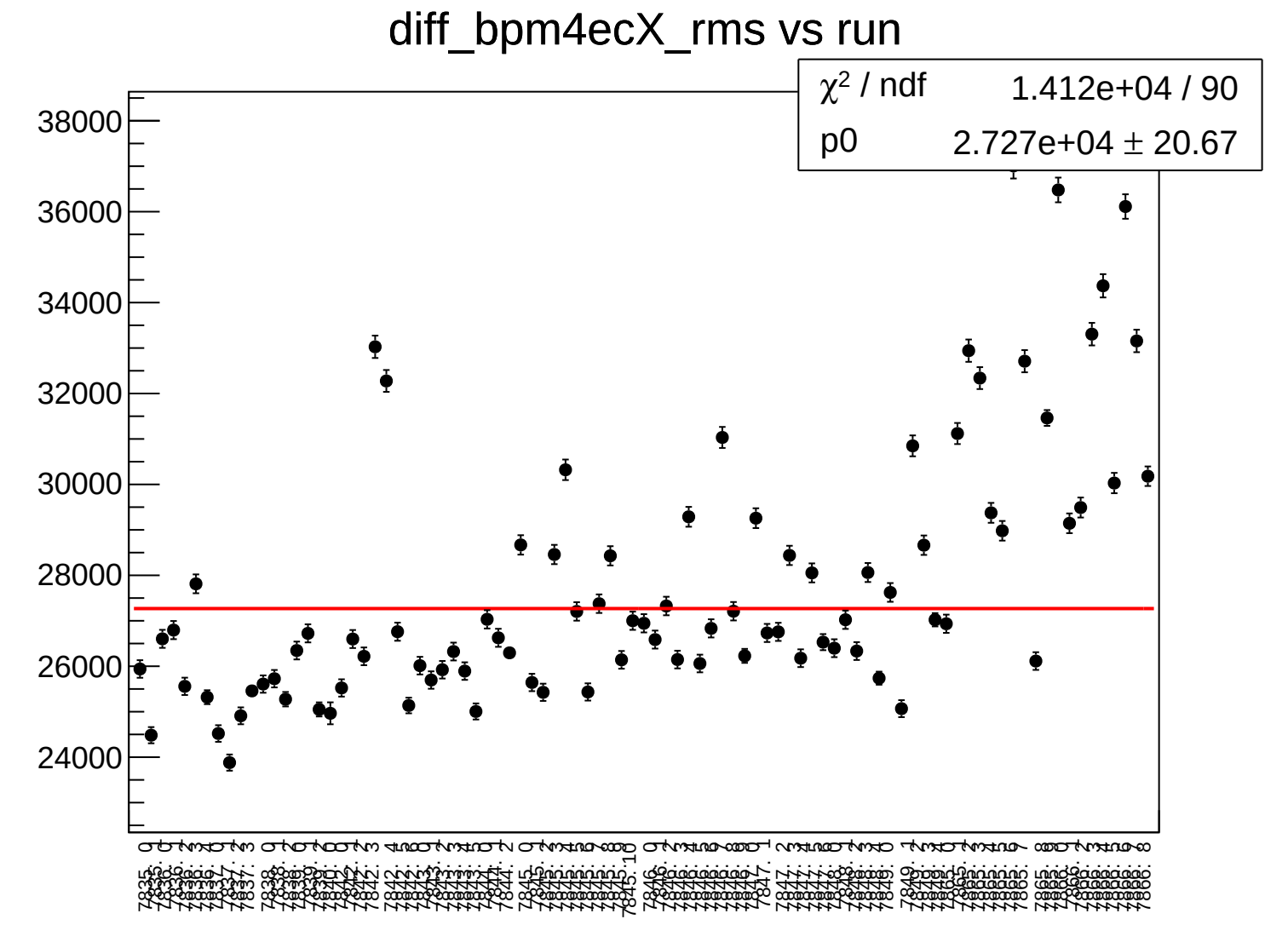

diff_bpm4acY_mean vs run
χ² / ndf 96.12 / 90
p0 7.297 ± 6.141
pull
Entries 91
Mean 290.1
Std Dev 0

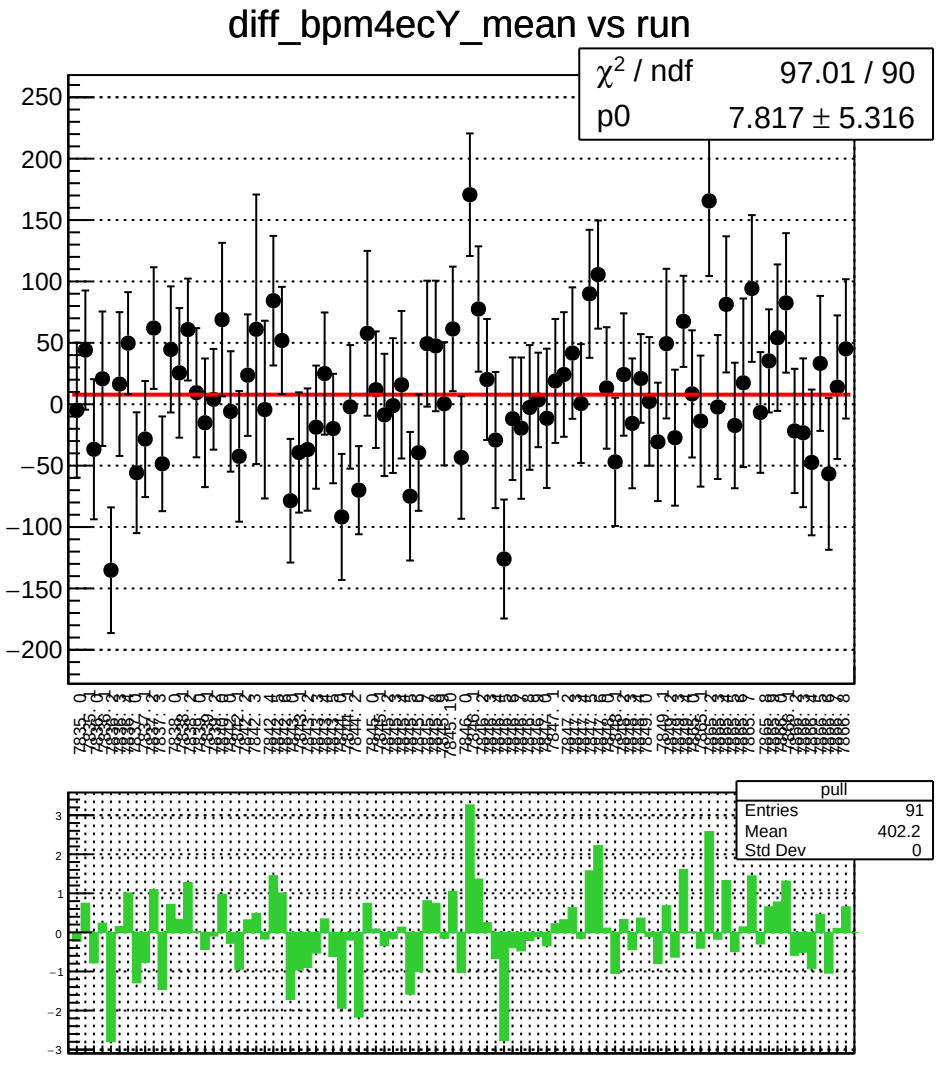

pull1D
Entries 91
Mean 0.01514
Std Dev 1.028

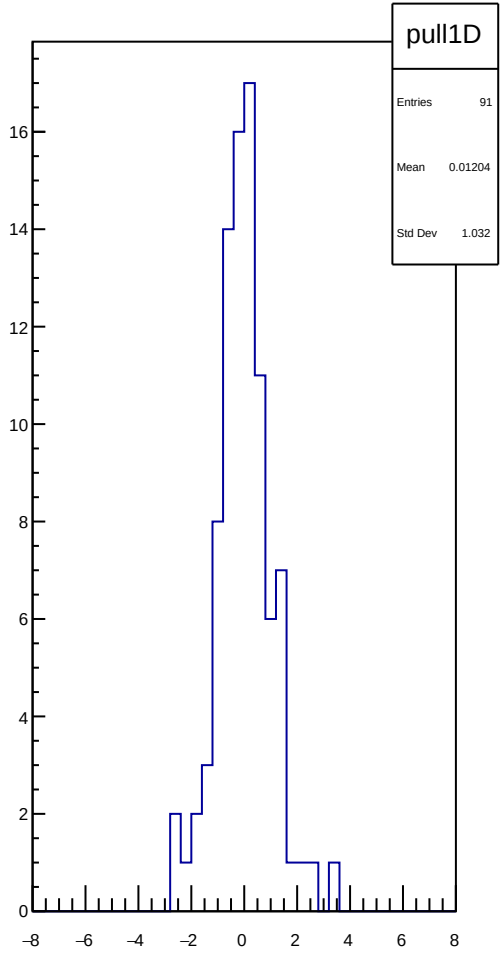

diff_bpm4acY_rms vs run
χ² / ndf 2.26e+04 / 90
p0 5716 ± 4.343
16000
14000
12000
10000
8000
6000

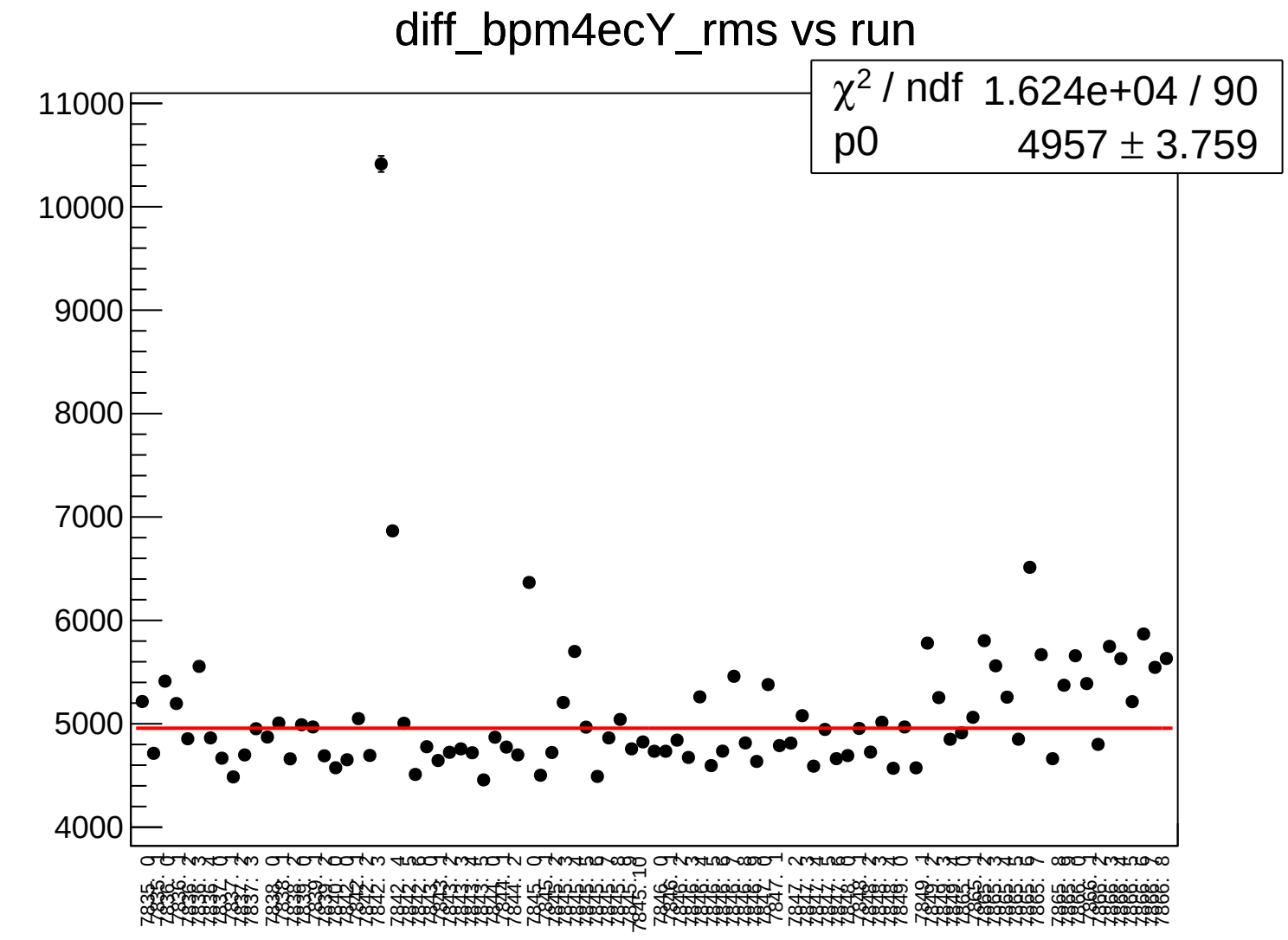

diff_bpm4ecX_mean vs run
χ² / ndf 79.32 / 90
p0 −0.6758 ± 29.23
1000
500
0
−500
−1000
pull
Entries 91
Mean 102.7
Std Dev 0
2
1
0
−1
−2

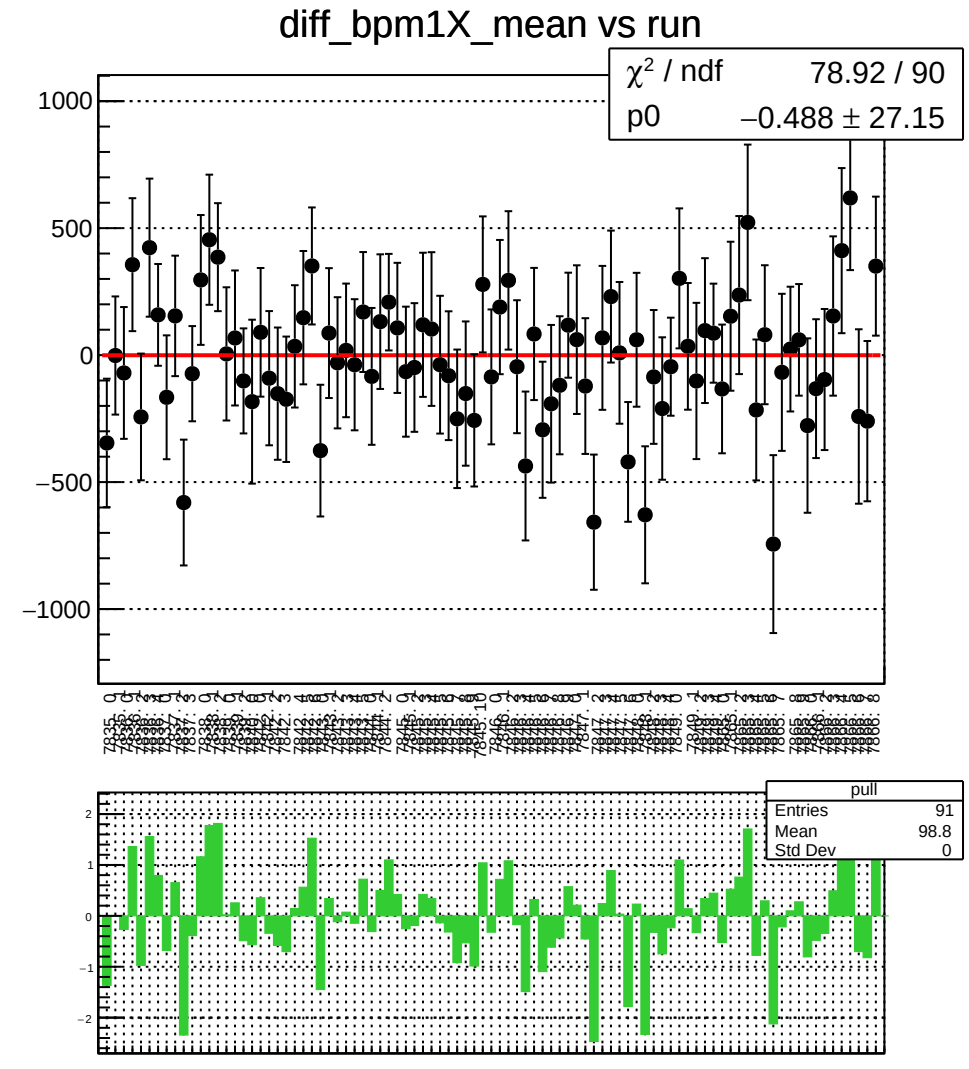

pull1D
Entries 91
Mean −0.01633
Std Dev 0.9335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

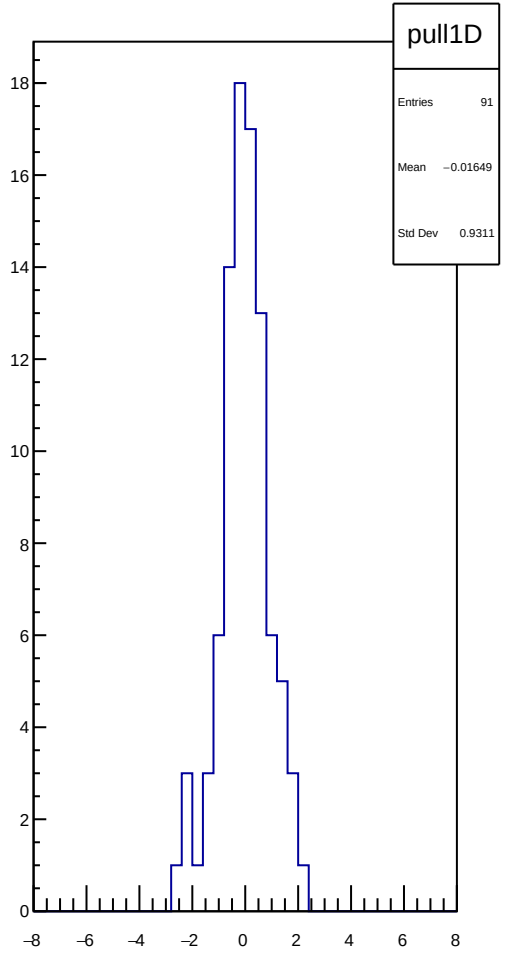

diff_bpm4ecX_rms vs run
χ² / ndf 1.412e+04 / 90
p0 2.727e+04 ± 20.67
38000
36000
34000
32000
30000
28000
26000
24000

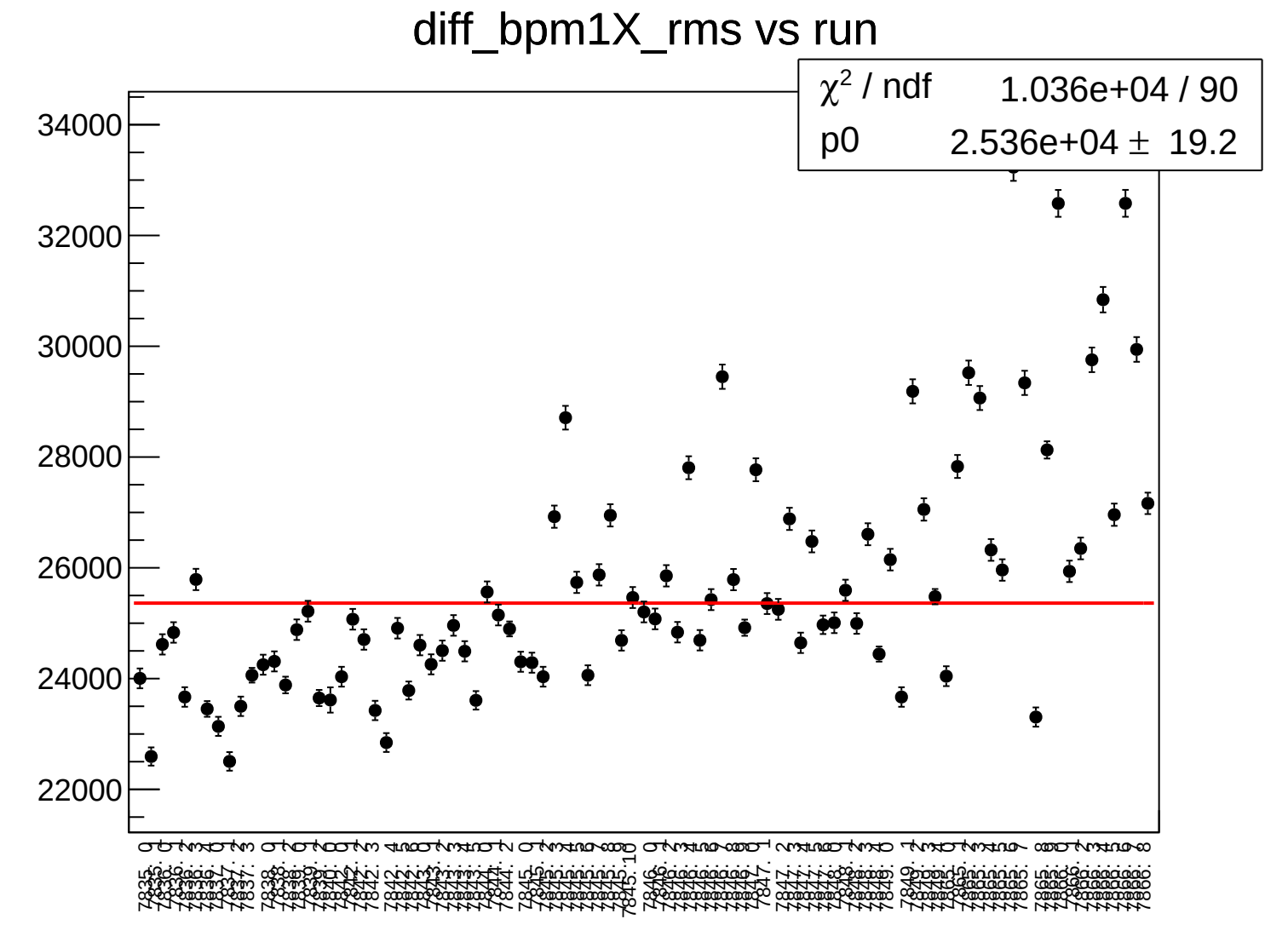

diff_bpm4ecY_mean vs run
χ^2 / ndf 97.01 / 90
p0 7.817 ± 5.316
pull
Entries 91
Mean 402.2
Std Dev 0

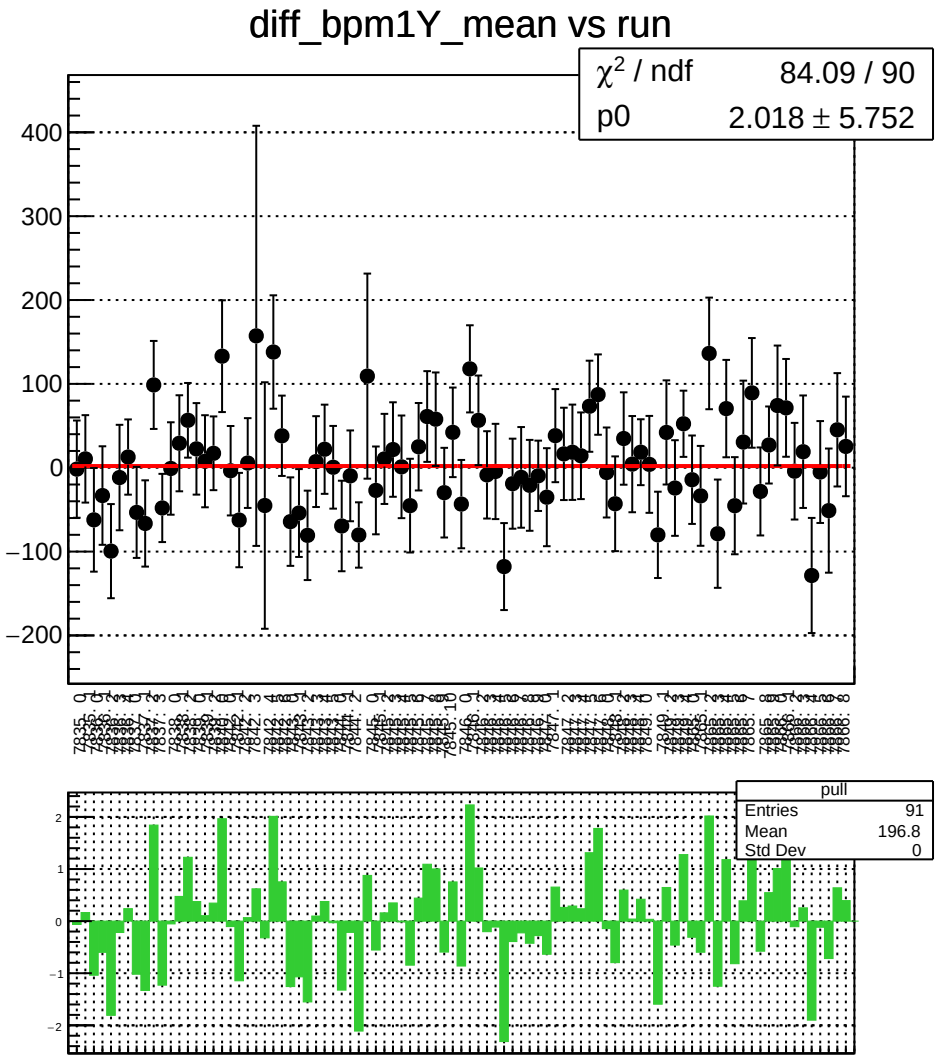

pull1D
Entries 91
Mean 0.01204
Std Dev 1.032

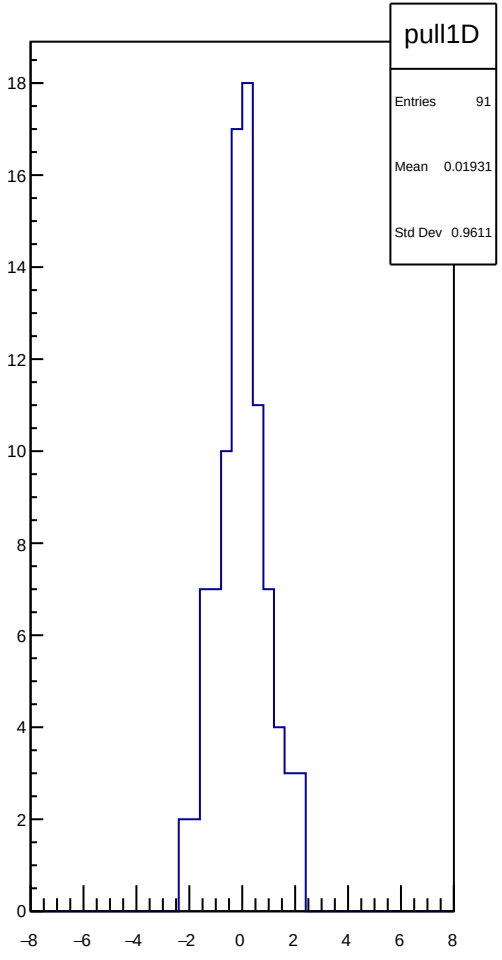

diff_bpm4ecY_rms vs run
χ² / ndf 1.624e+04 / 90
p0 4957 ± 3.759
11000
10000
9000
8000
7000
6000
5000
4000

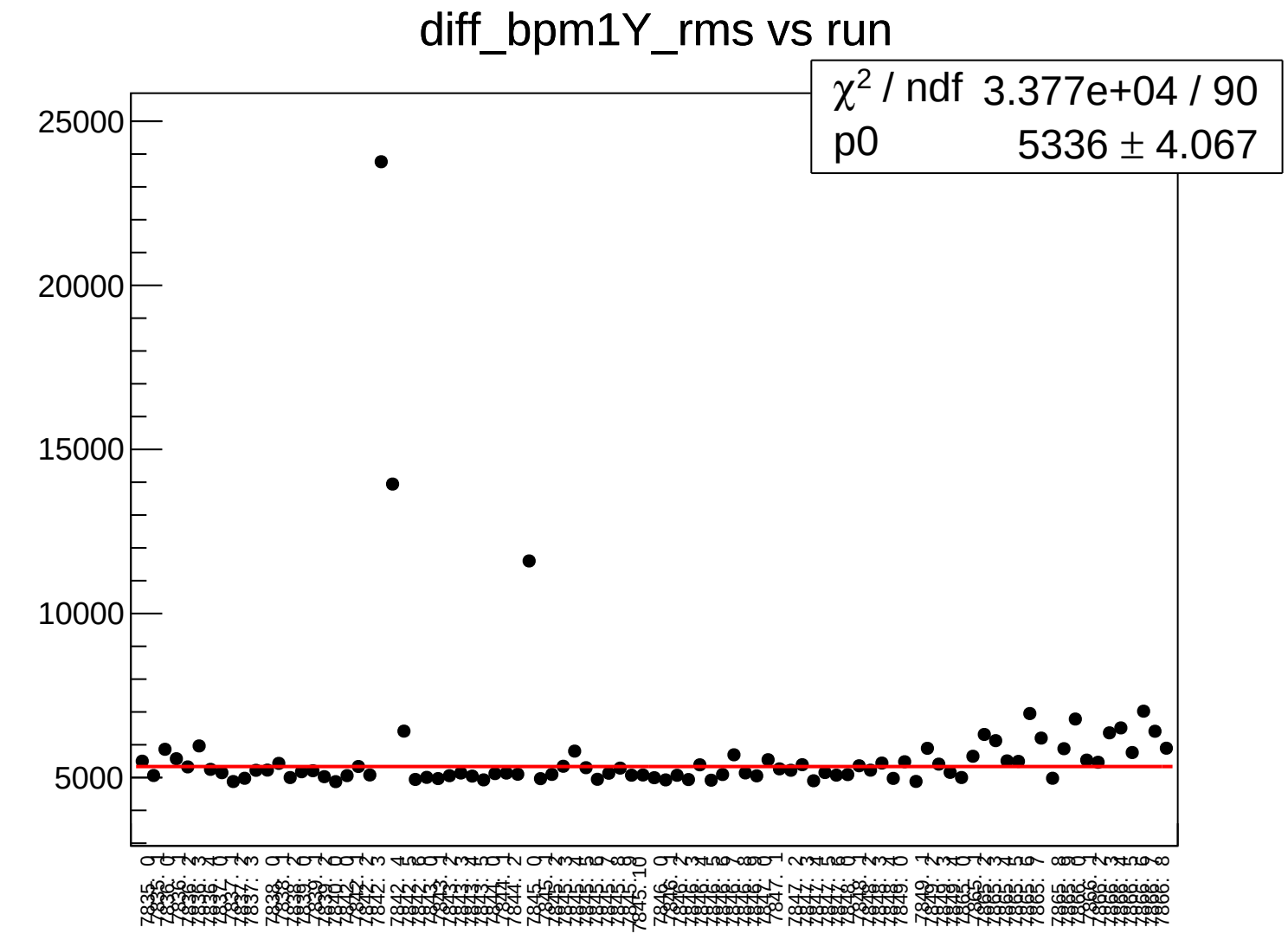

diff_bpm1X_mean vs run
χ² / ndf 78.92 / 90
p0 −0.488 ± 27.15
1000
500
0
−500
−1000
pull
Entries 91
Mean 98.8
Std Dev 0
2
1
0
−1
−2

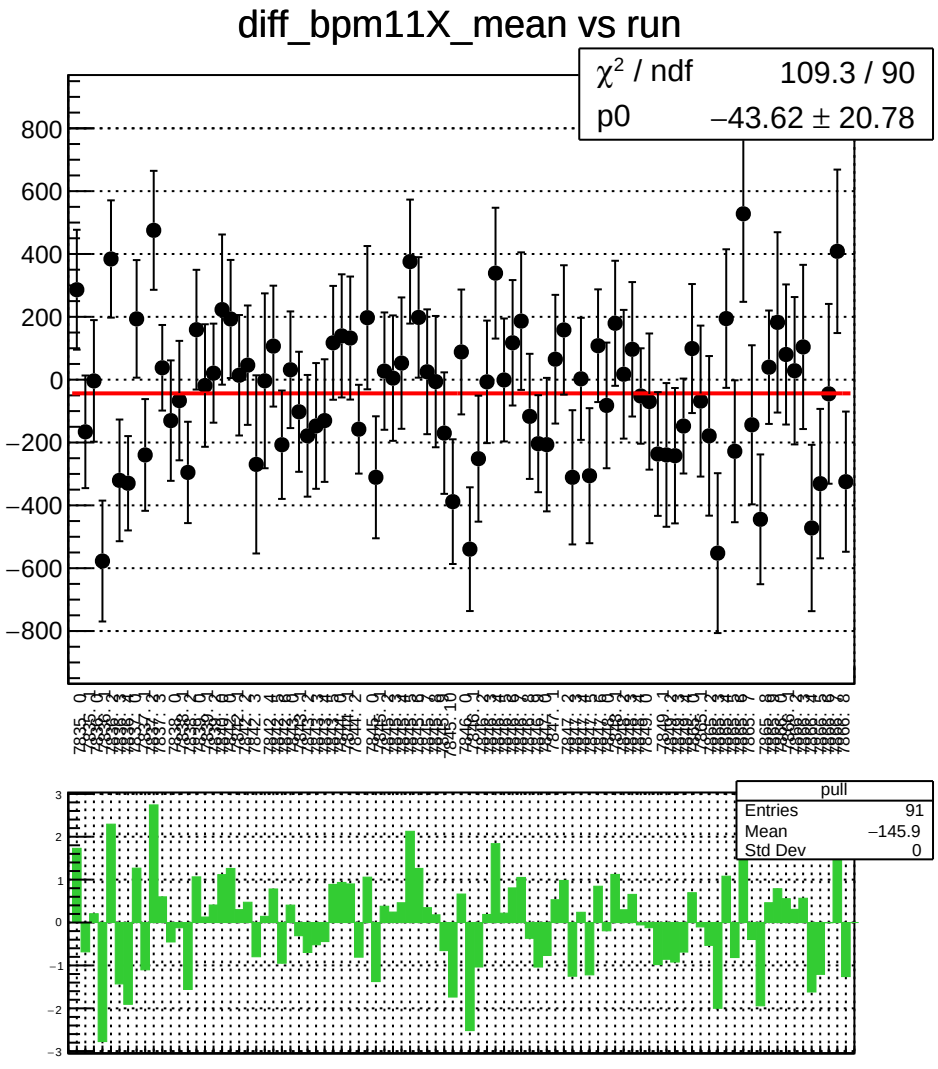

pull1D
Entries 91
Mean −0.01649
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

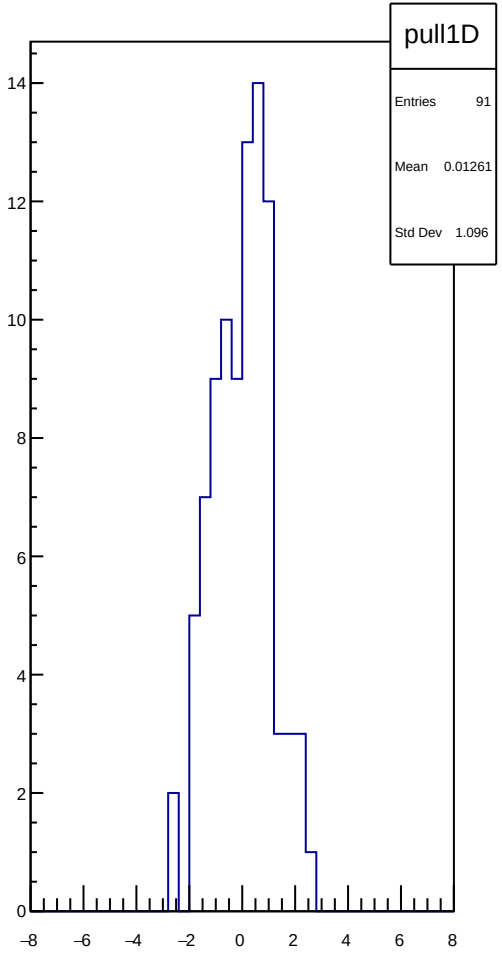

diff_bpm1X_rms vs run
χ² / ndf 1.036e+04 / 90
p0 2.536e+04 ± 19.2
34000
32000
30000
28000
26000
24000
22000

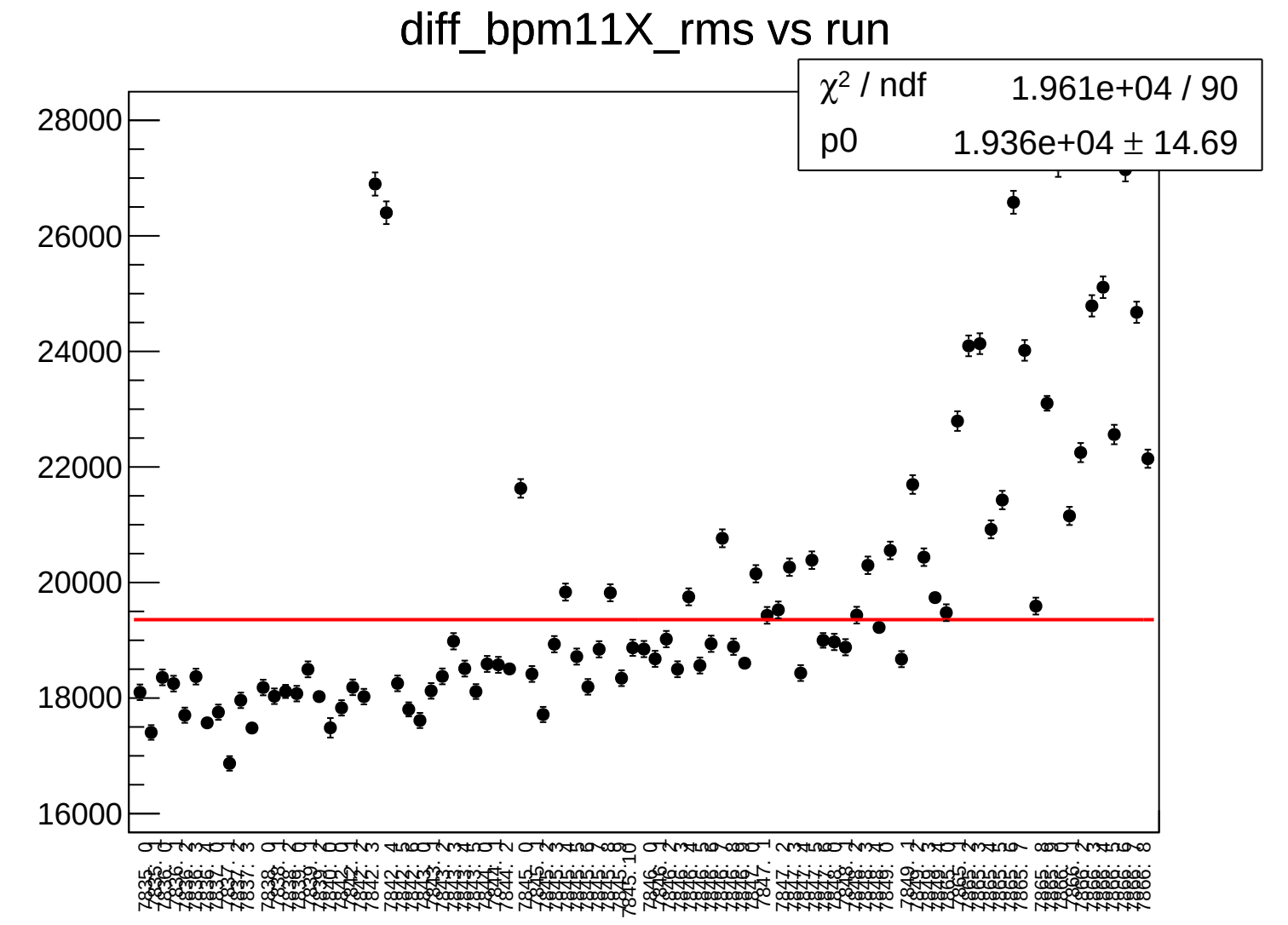

diff_bpm1Y_mean vs run
χ² / ndf 84.09 / 90
p0 2.018 ± 5.752
pull
Entries 91
Mean 196.8
Std Dev 0

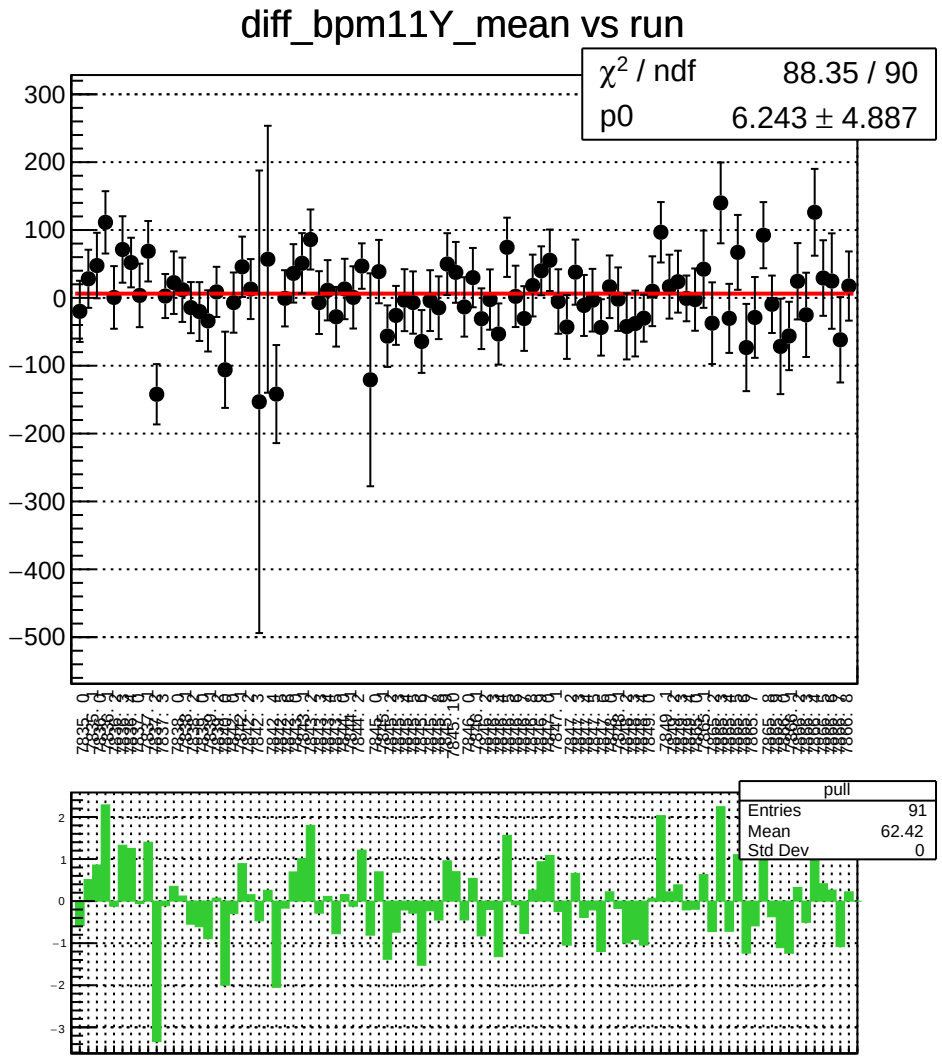

pull1D
Entries 91
Mean 0.01931
Std Dev 0.9611

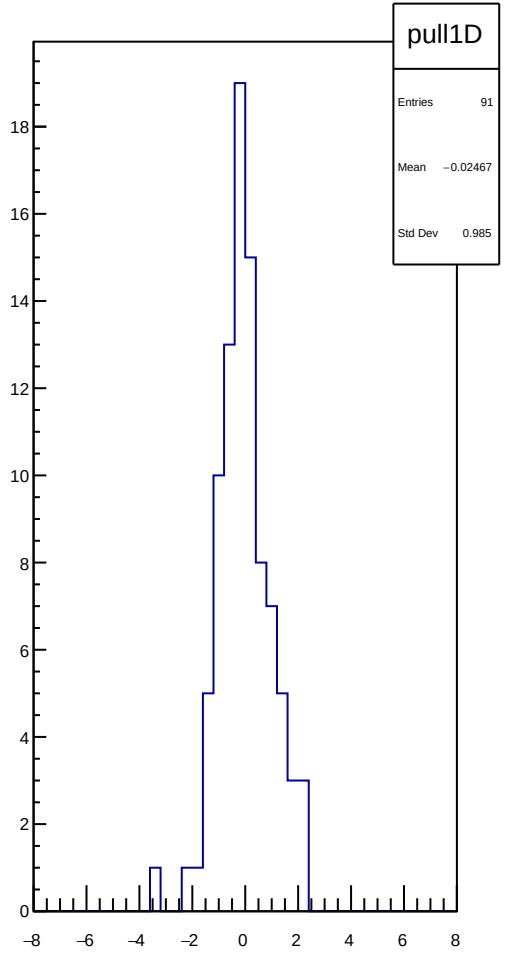

diff_bpm1Y_rms vs run
χ² / ndf 3.377e+04 / 90
p0 5336 ± 4.067
25000
20000
15000
10000
5000

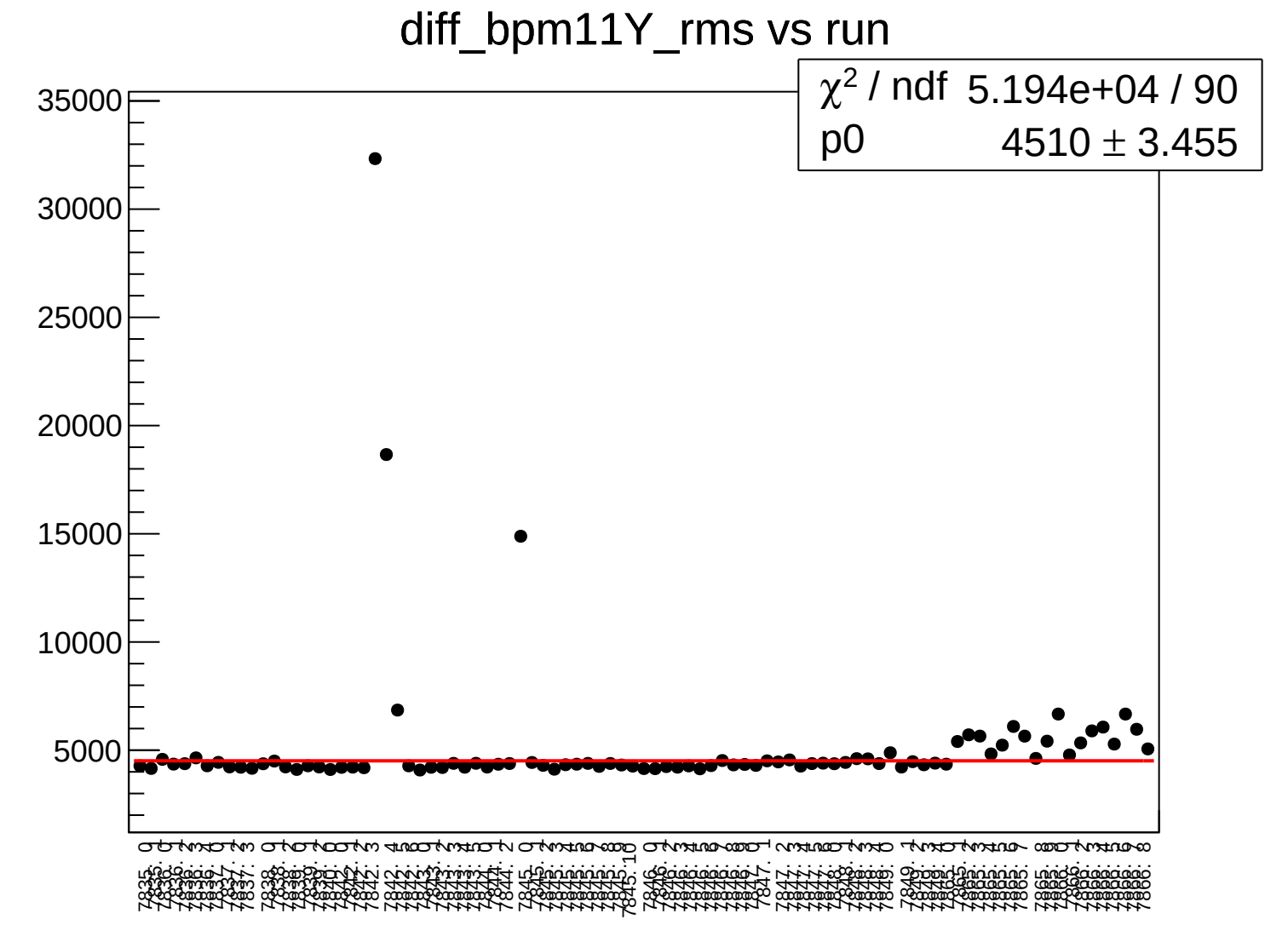

diff_bpm11X_mean vs run
χ² / ndf 109.3 / 90
p0 −43.62 ± 20.78
pull
Entries 91
Mean −145.9
Std Dev 0

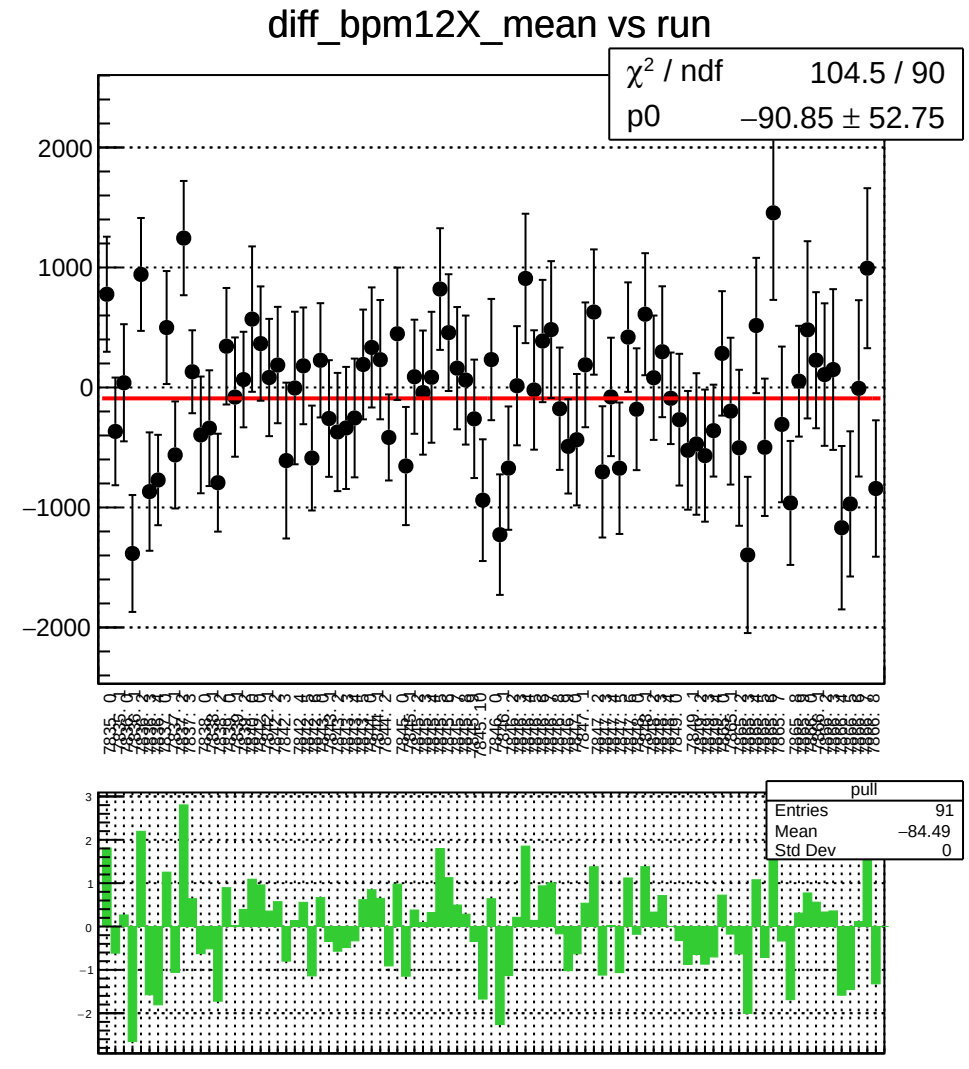

pull1D
Entries 91
Mean 0.01261
Std Dev 1.096

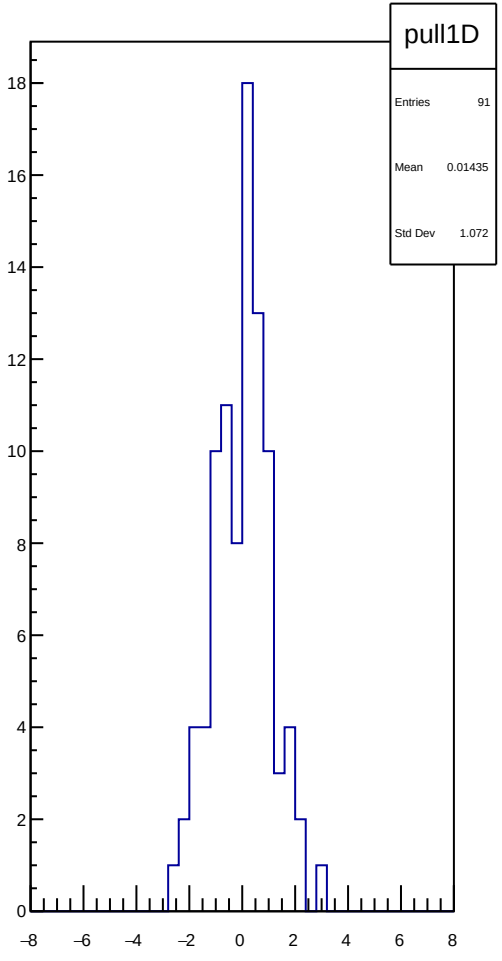

diff_bpm11X_rms vs run
χ² / ndf 1.961e+04 / 90
p0 1.936e+04 ± 14.69
28000
26000
24000
22000
20000
18000
16000

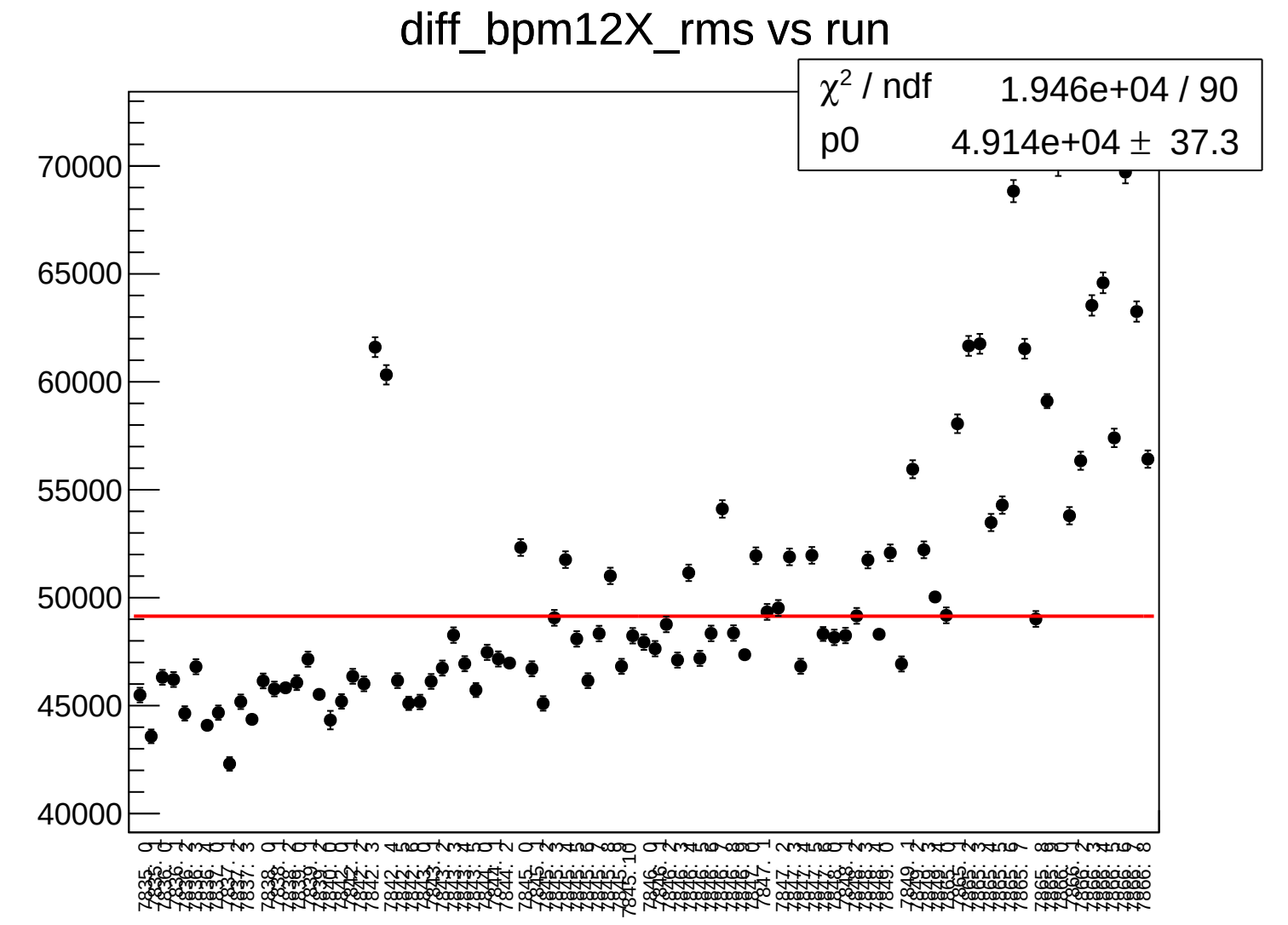

diff_bpm11Y_mean vs run
χ² / ndf 88.35 / 90
p0 6.243 ± 4.887
pull
Entries 91
Mean 62.42
Std Dev 0

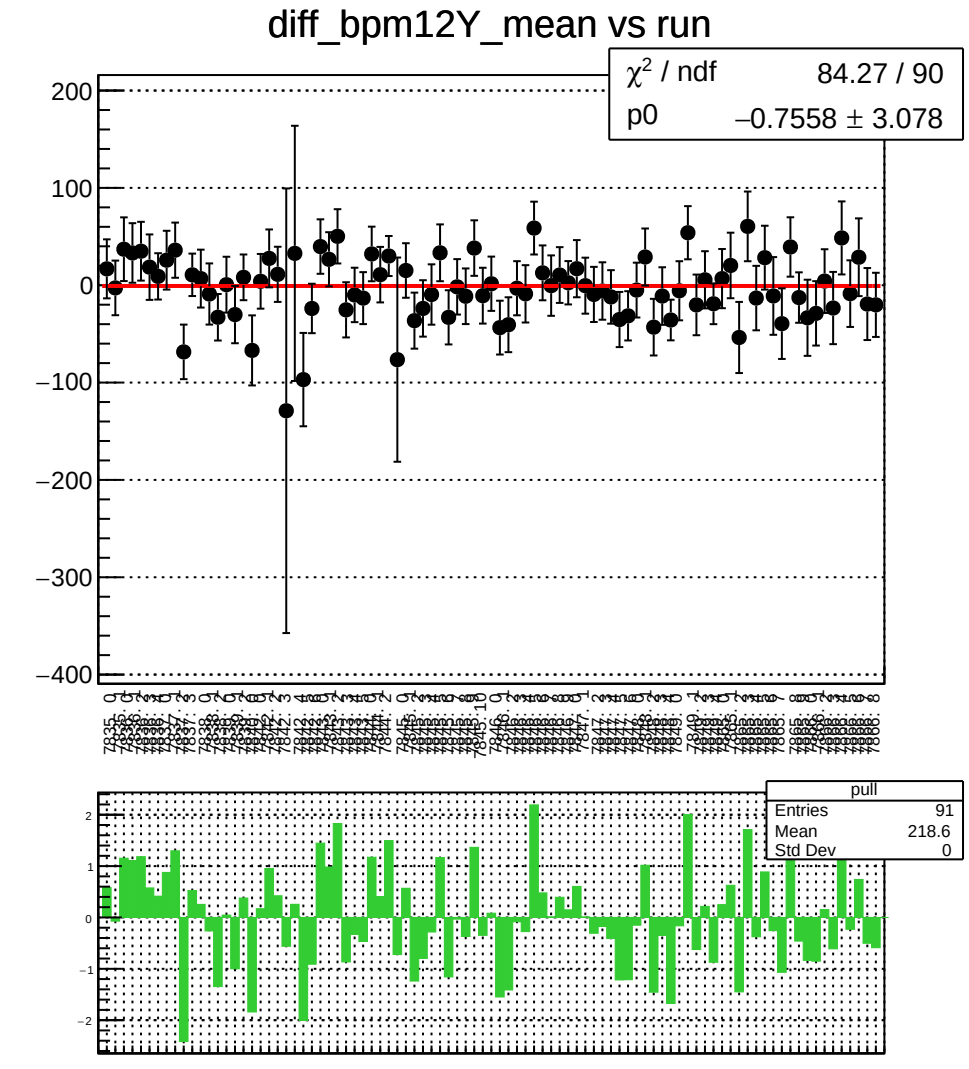

pull1D
Entries 91
Mean −0.02467
Std Dev 0.985

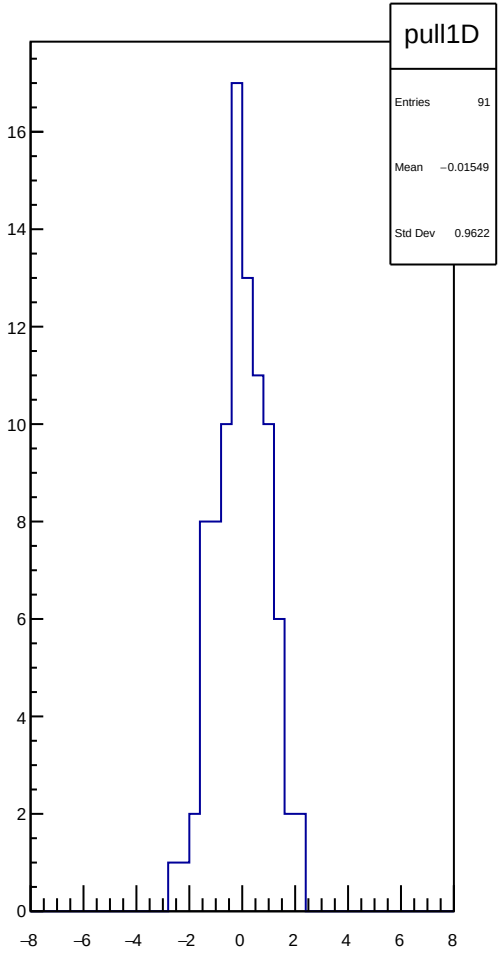

diff_bpm11Y_rms vs run
χ² / ndf 5.194e+04 / 90
p0 4510 ± 3.455
35000
30000
25000
20000
15000
10000
5000

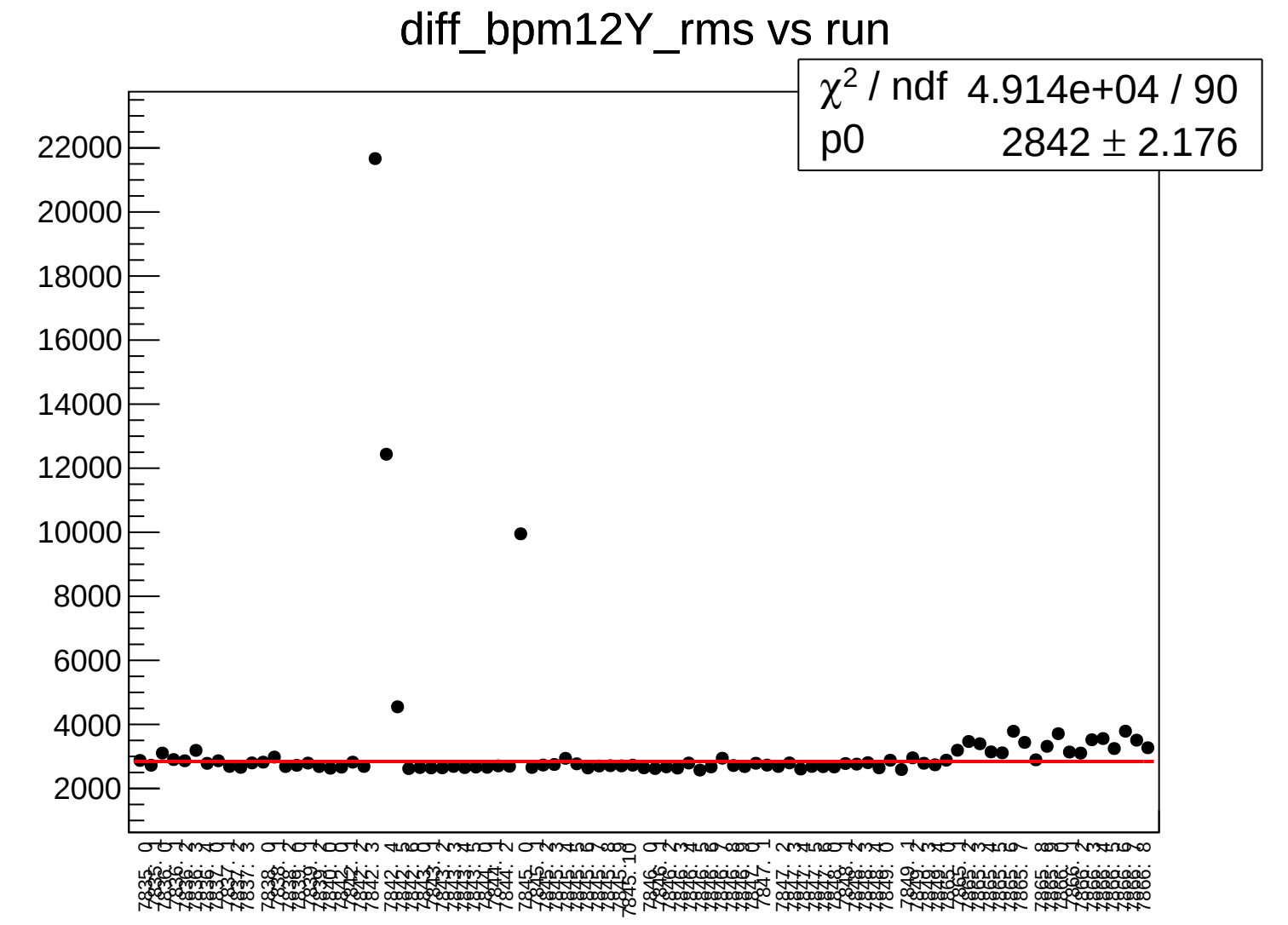

diff_bpm12X_mean vs run
χ² / ndf 104.5 / 90
p0 −90.85 ± 52.75
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −84.49
Std Dev 0
3
2
1
0
−1
−2

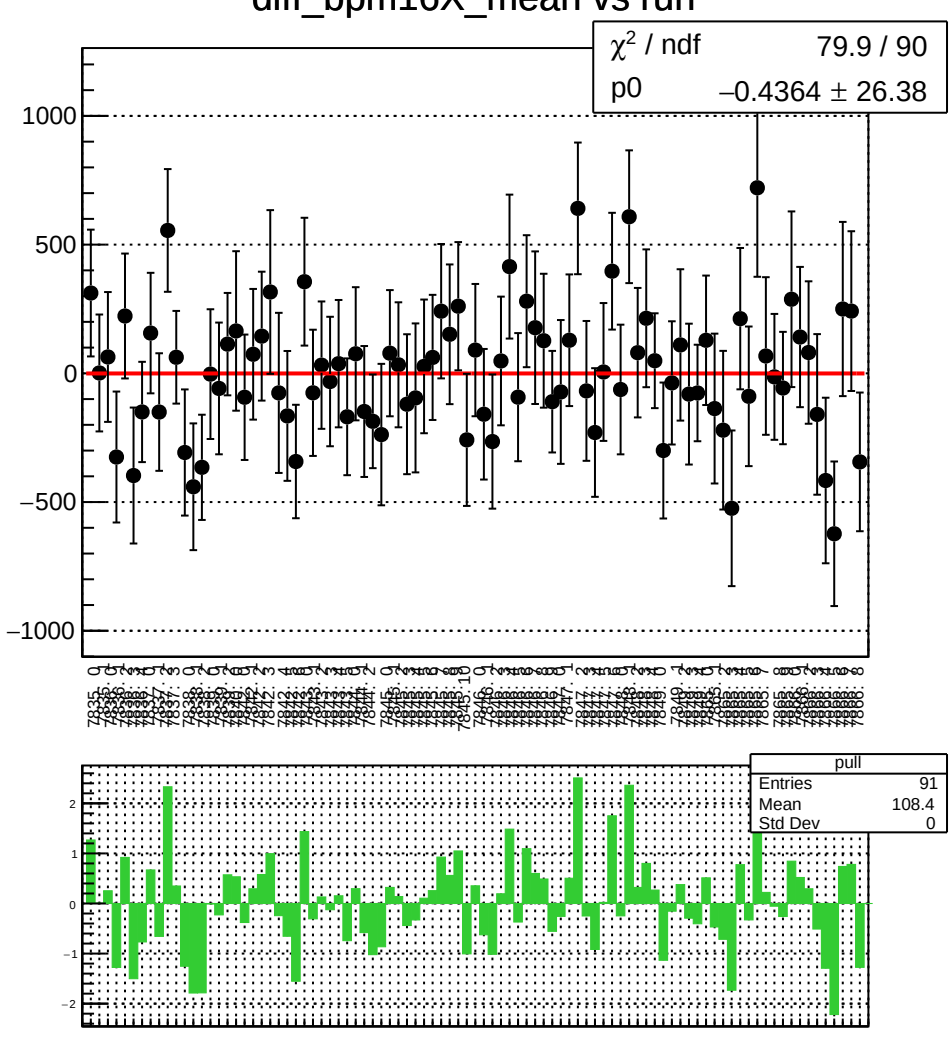

pull1D
Entries 91
Mean 0.01435
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

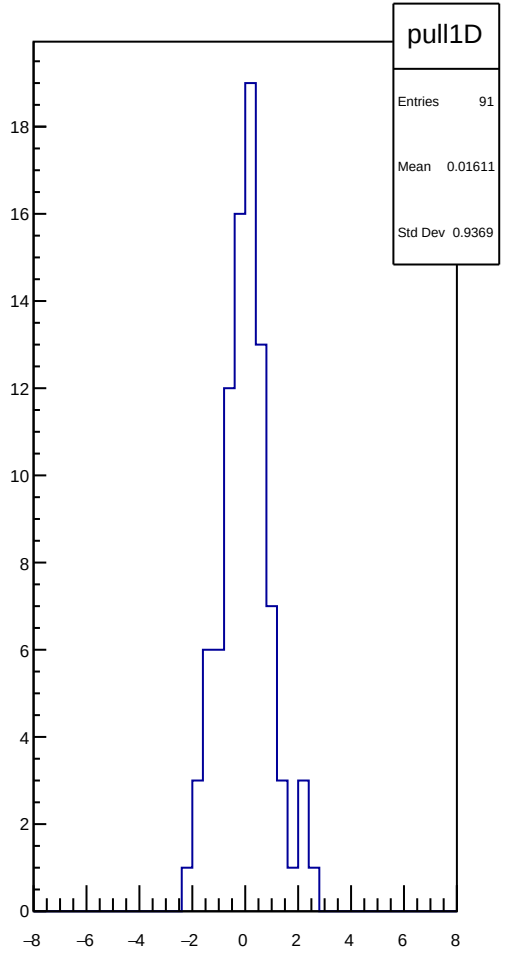

diff_bpm12X_rms vs run
χ^2 / ndf 1.946e+04 / 90
p0 4.914e+04 ± 37.3
70000
65000
60000
55000
50000
45000
40000

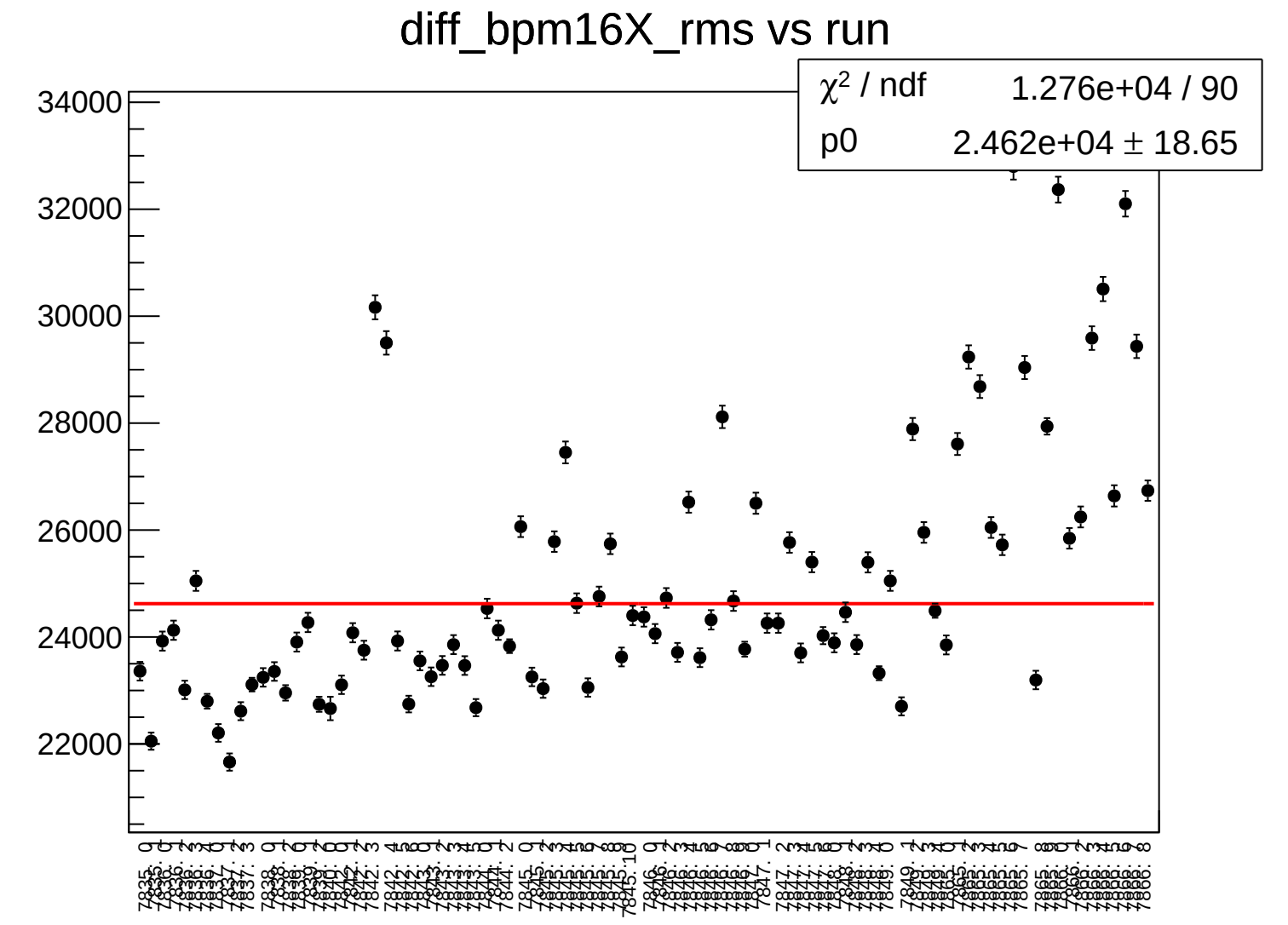

diff_bpm12Y_mean vs run
χ² / ndf 84.27 / 90
p0 −0.7558 ± 3.078
pull
Entries 91
Mean 218.6
Std Dev 0

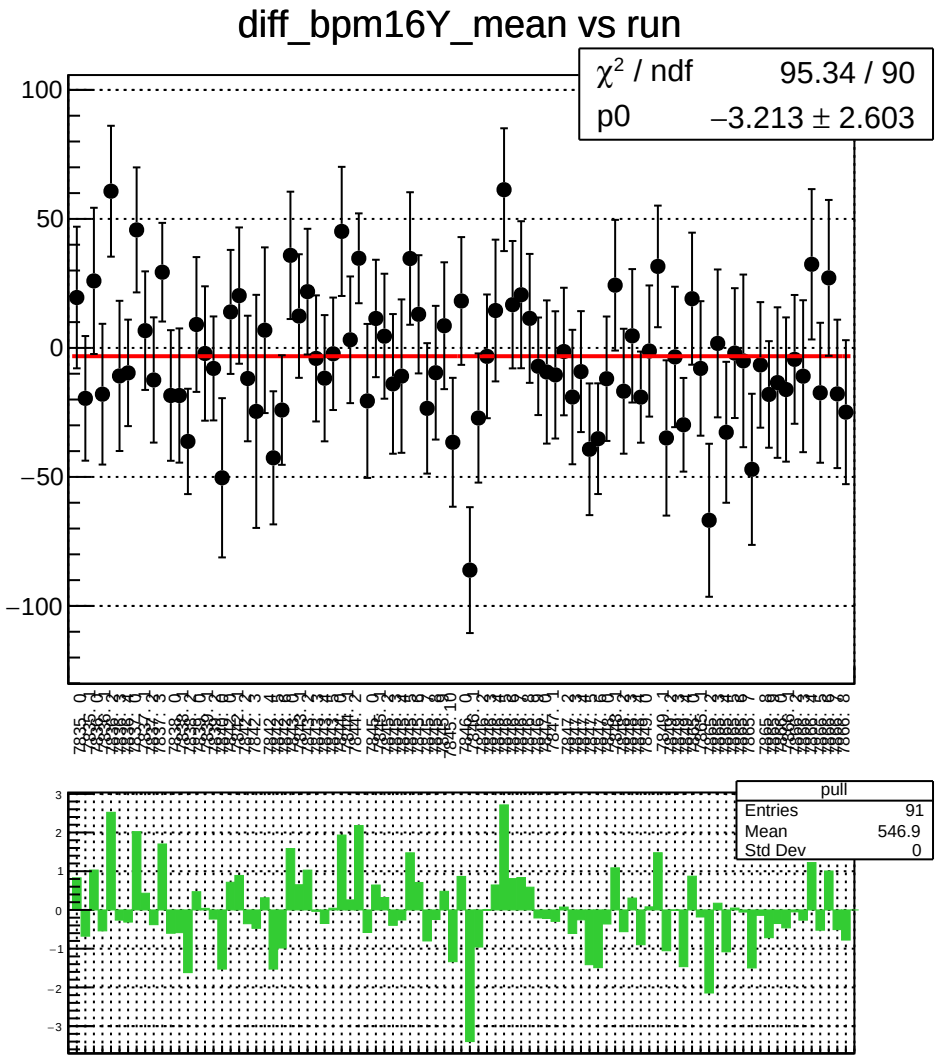

pull1D
Entries 91
Mean −0.01549
Std Dev 0.9622

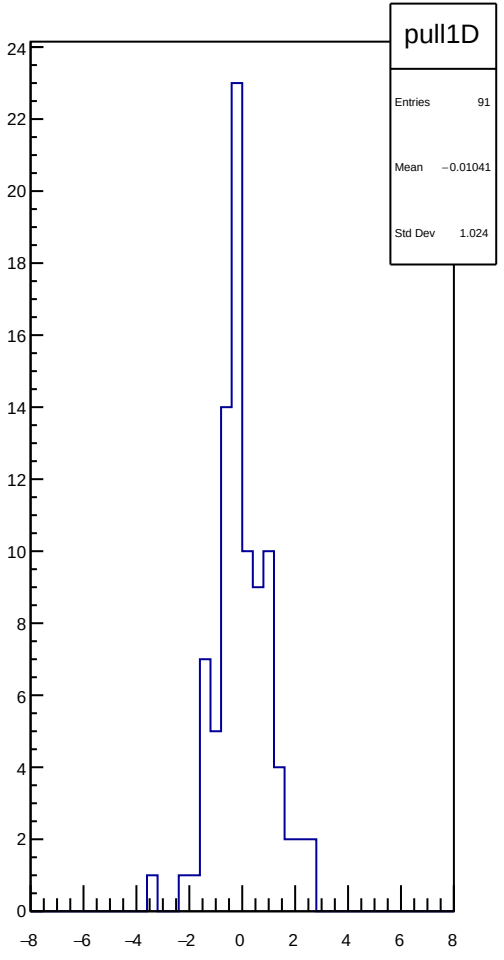

diff_bpm12Y_rms vs run
χ² / ndf 4.914e+04 / 90
p0 2842 ± 2.176
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

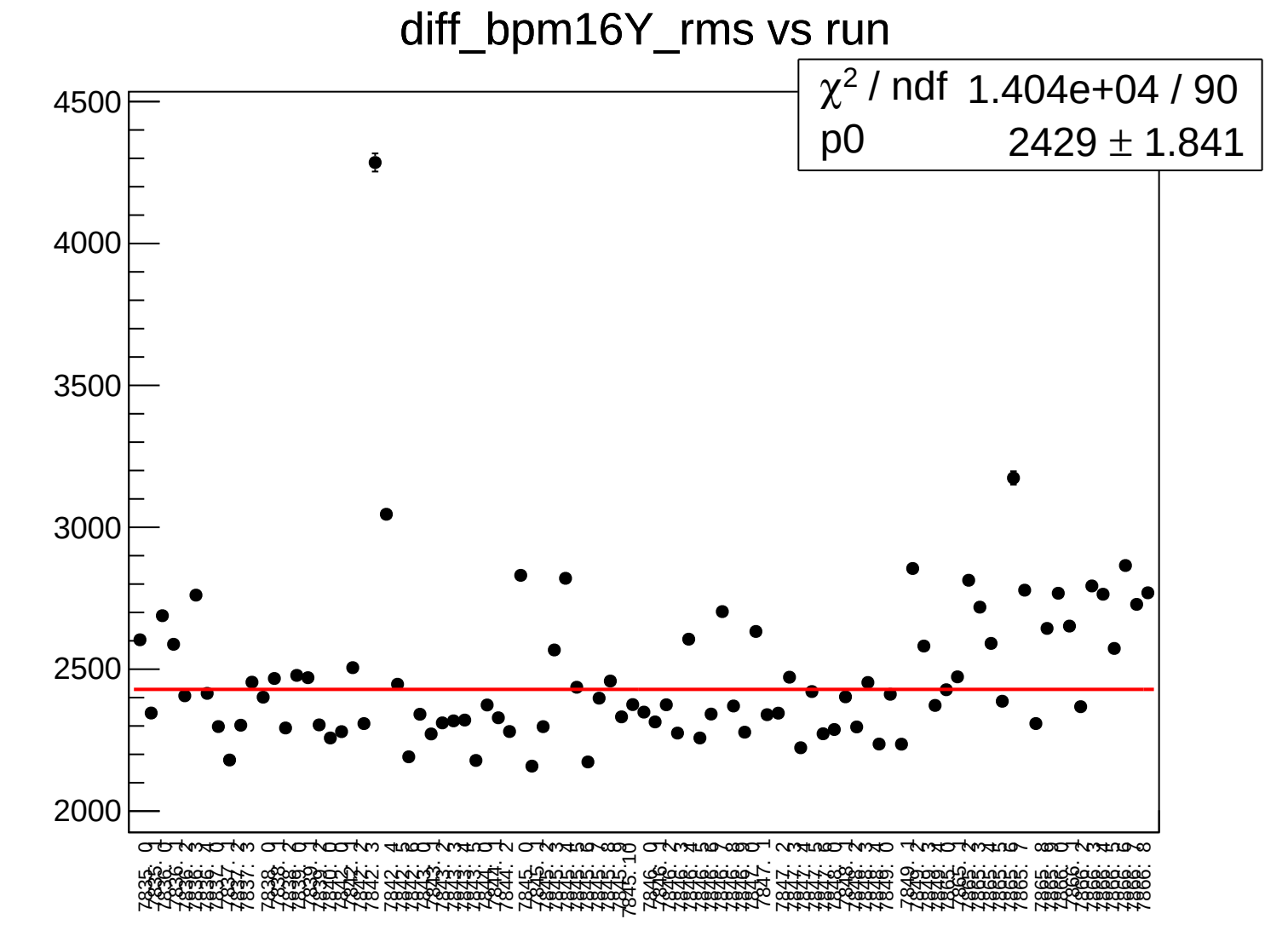

diff_bpm16X_mean vs run
χ² / ndf 79.9 / 90
p0 −0.4364 ± 26.38
1000
500
0
−500
−1000
pull
Entries 91
Mean 108.4
Std Dev 0
2
1
0
−1
−2

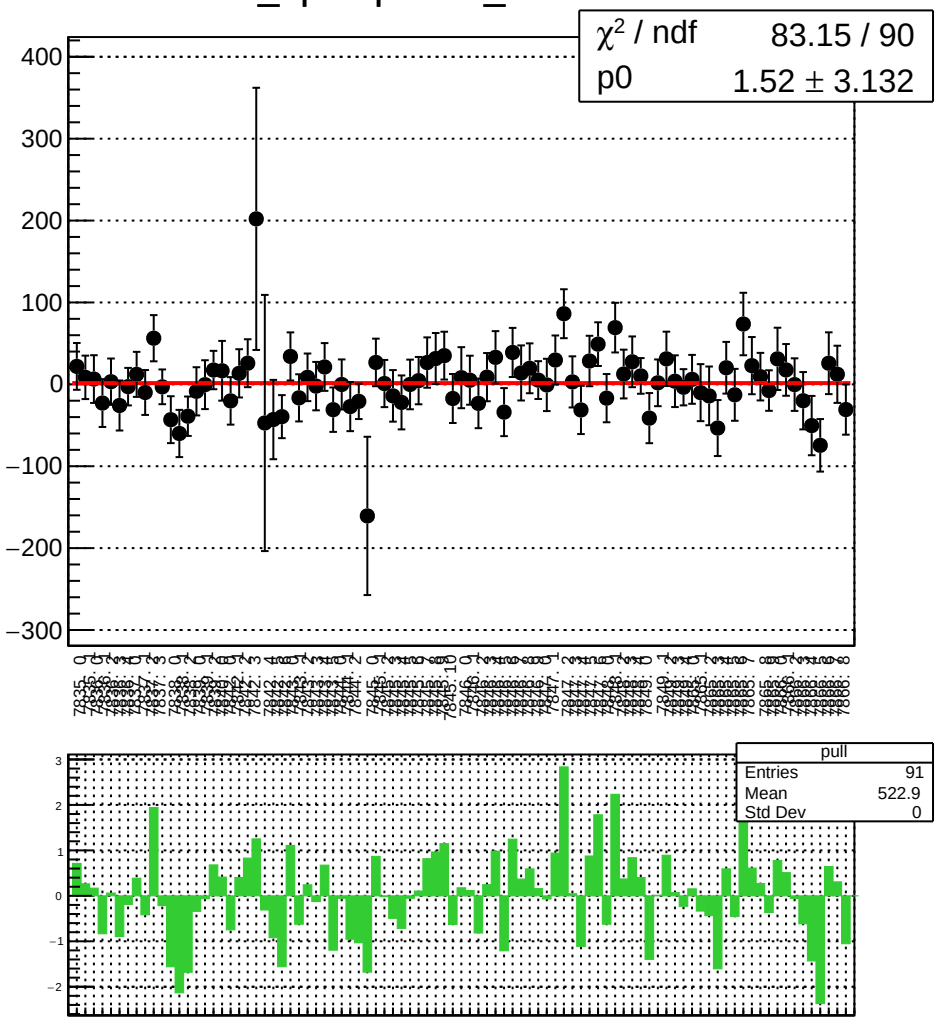

pull1D
Entries 91
Mean 0.01611
Std Dev 0.9369
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

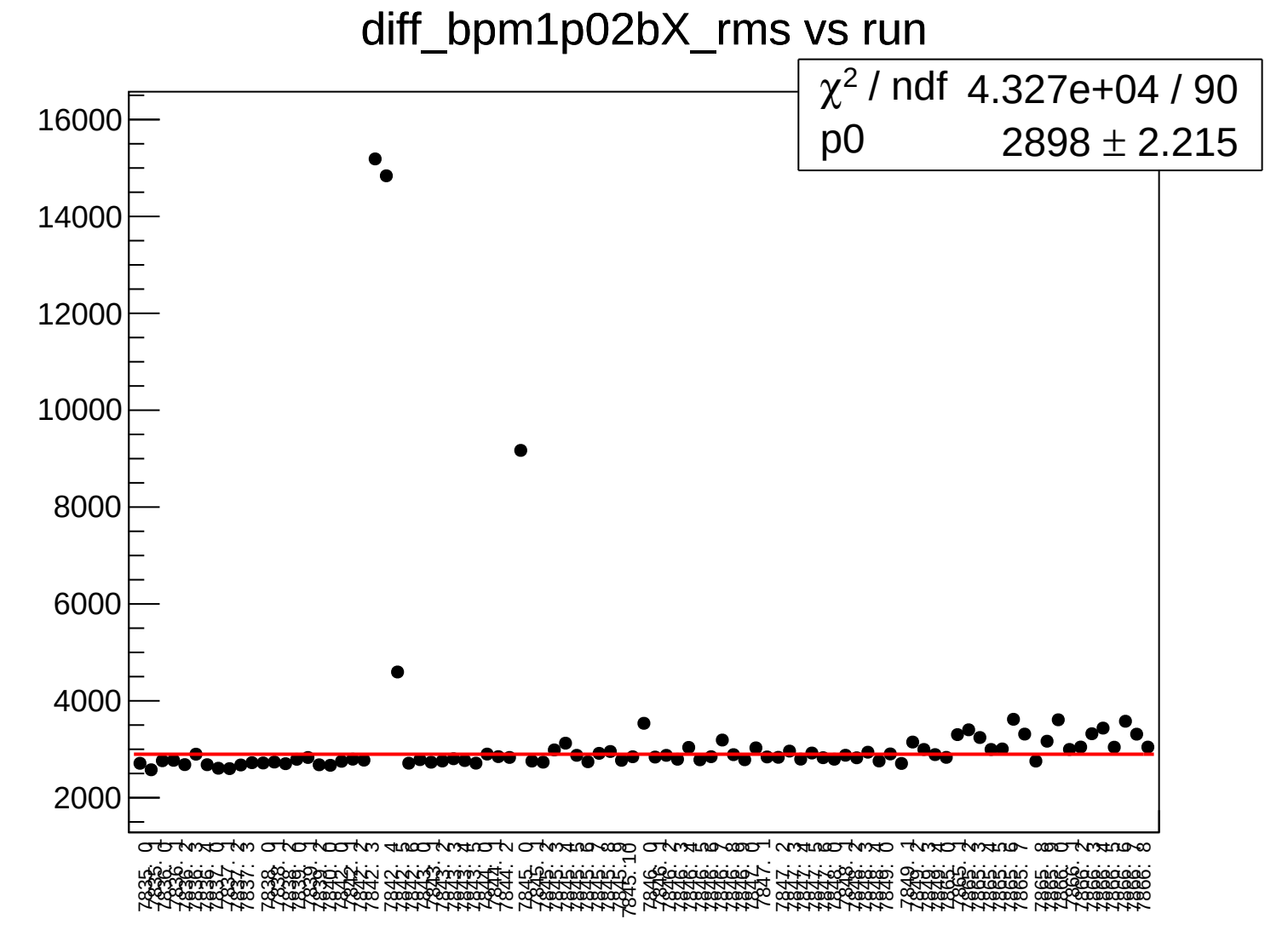

diff_bpm16X_rms vs run
χ² / ndf 1.276e+04 / 90
p0 2.462e+04 ± 18.65
34000
32000
30000
28000
26000
24000
22000

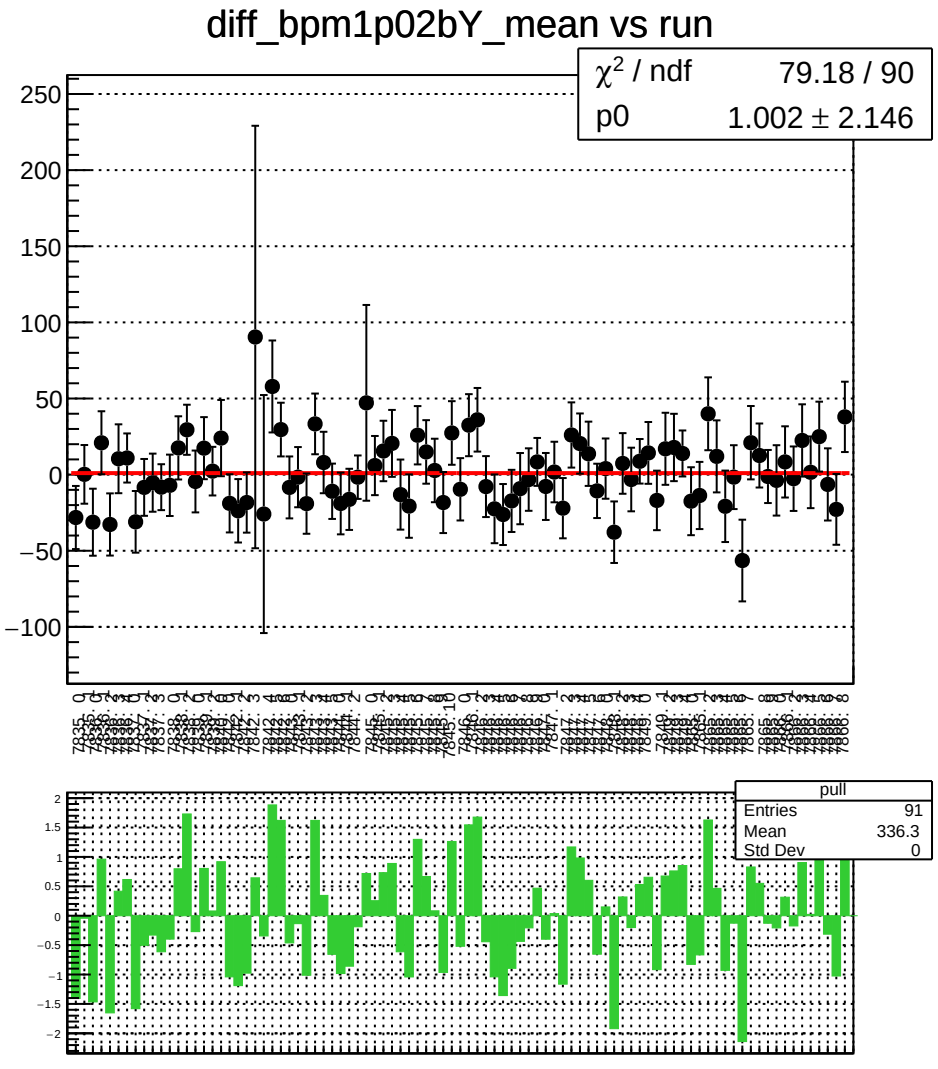

diff_bpm16Y_mean vs run
χ² / ndf 95.34 / 90
p0 −3.213 ± 2.603
pull
Entries 91
Mean 546.9
Std Dev 0

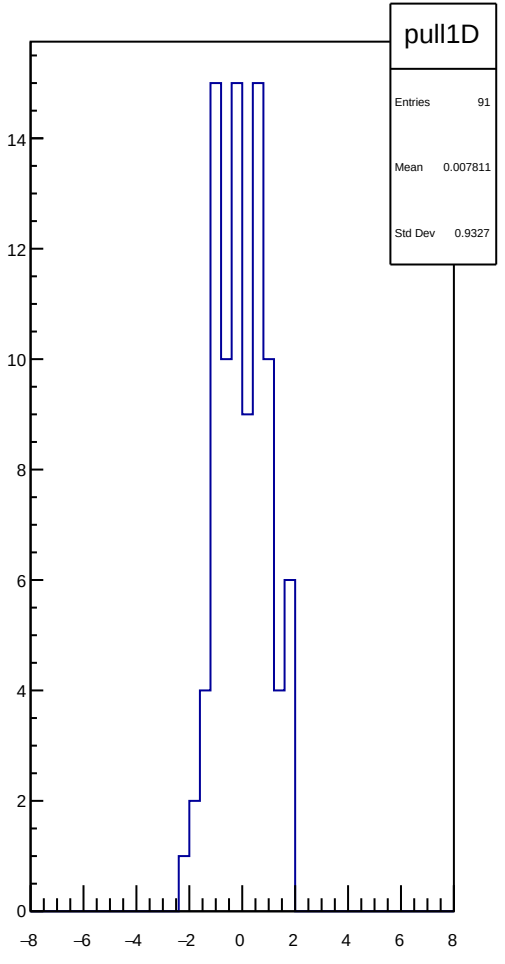

pull1D
Entries 91
Mean −0.01041
Std Dev 1.024

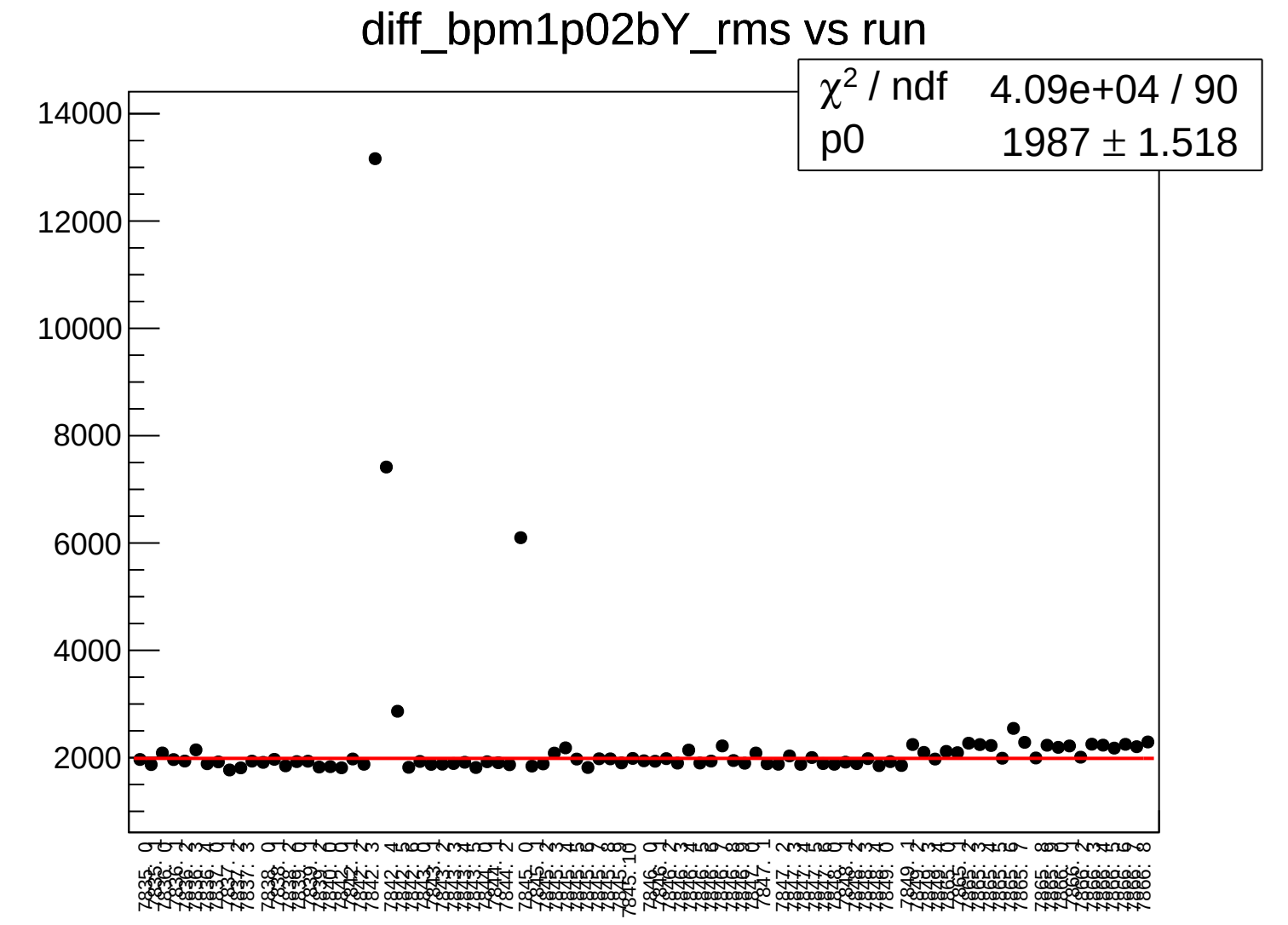

diff_bpm16Y_rms vs run
χ² / ndf 1.404e+04 / 90
p0 2429 ± 1.841
4500
4000
3500
3000
2500
2000

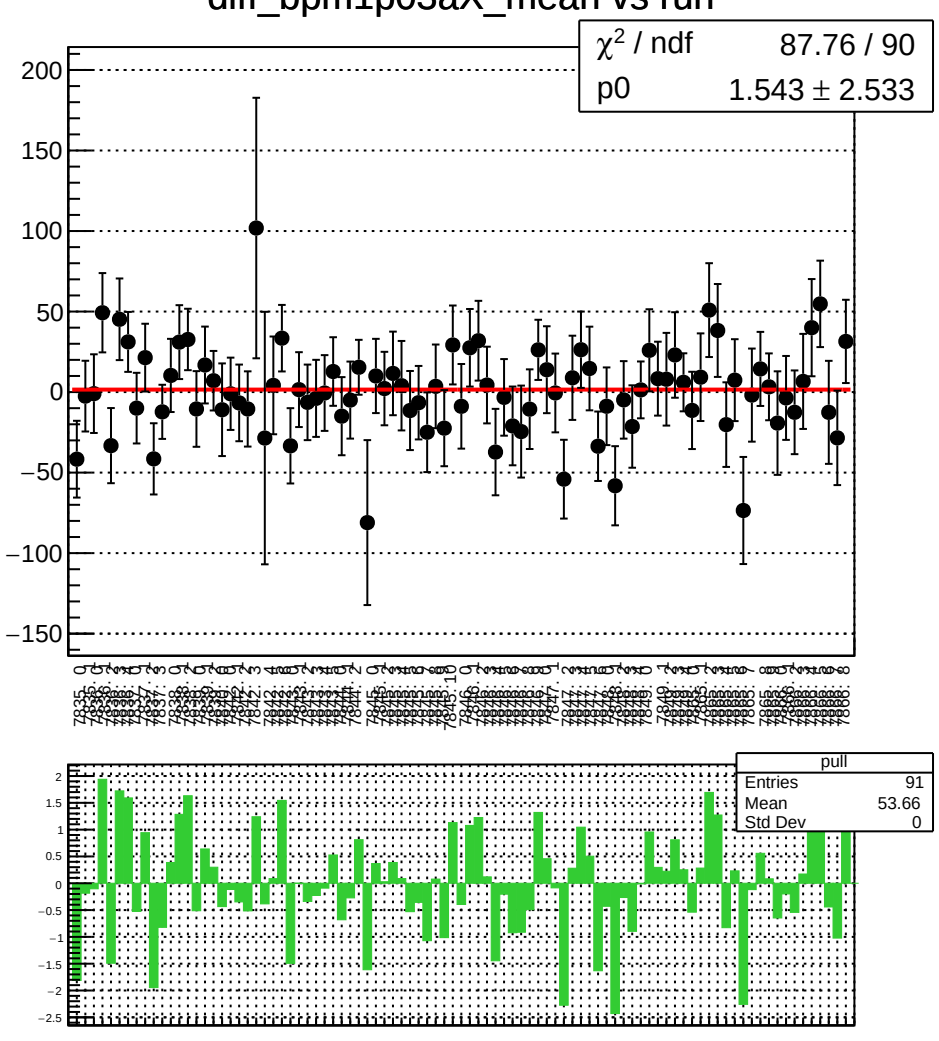

diff_bpm1p02bX_mean vs run
χ² / ndf 83.15 / 90
p0 1.52 ± 3.132
pull
Entries 91
Mean 522.9
Std Dev 0
pull1D
Entries 91
Mean 0.0041
Std Dev 0.9559

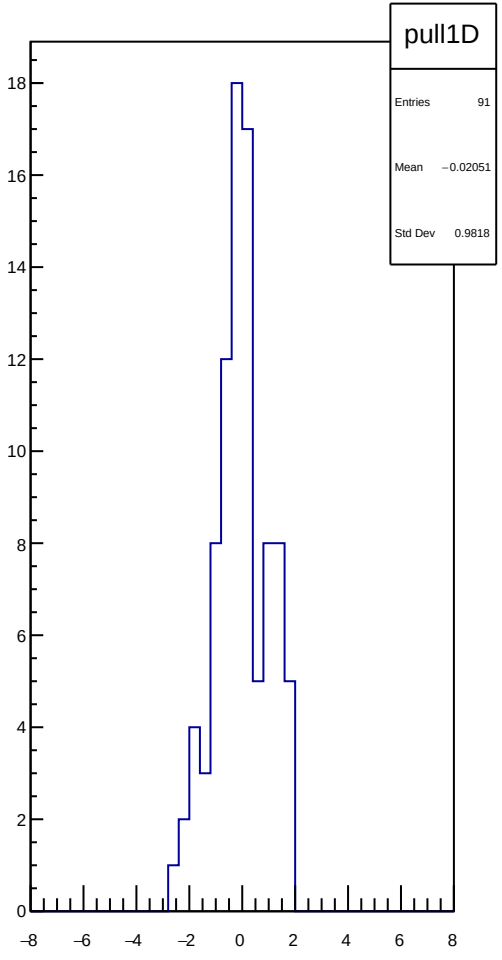

diff_bpm1p02bX_rms vs run
χ² / ndf 4.327e+04 / 90
p0 2898 ± 2.215
16000
14000
12000
10000
8000
6000
4000
2000

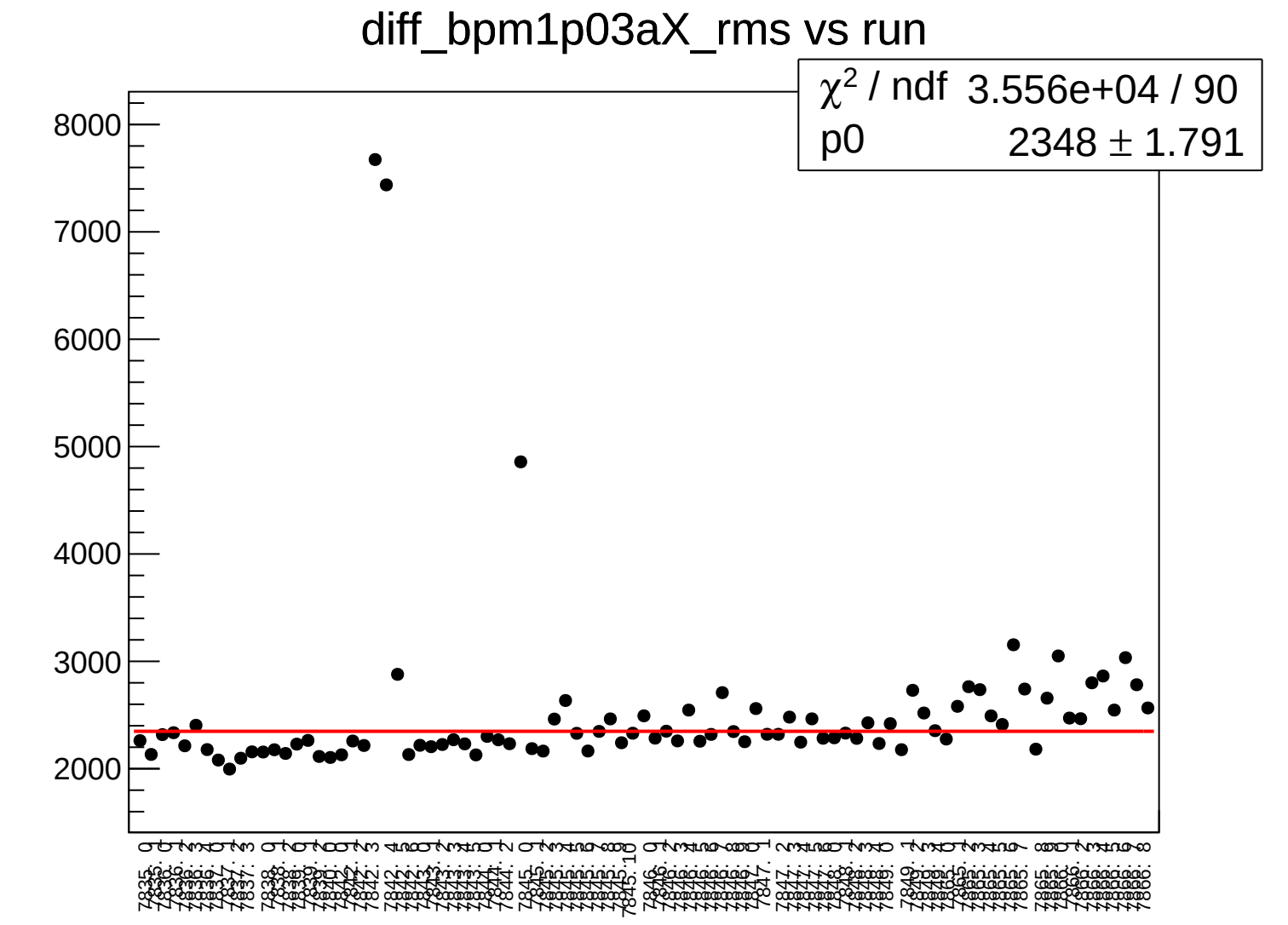

diff_bpm1p02bY_mean vs run
χ² / ndf 79.18 / 90
p0 1.002 ± 2.146
pull
Entries 91
Mean 336.3
Std Dev 0

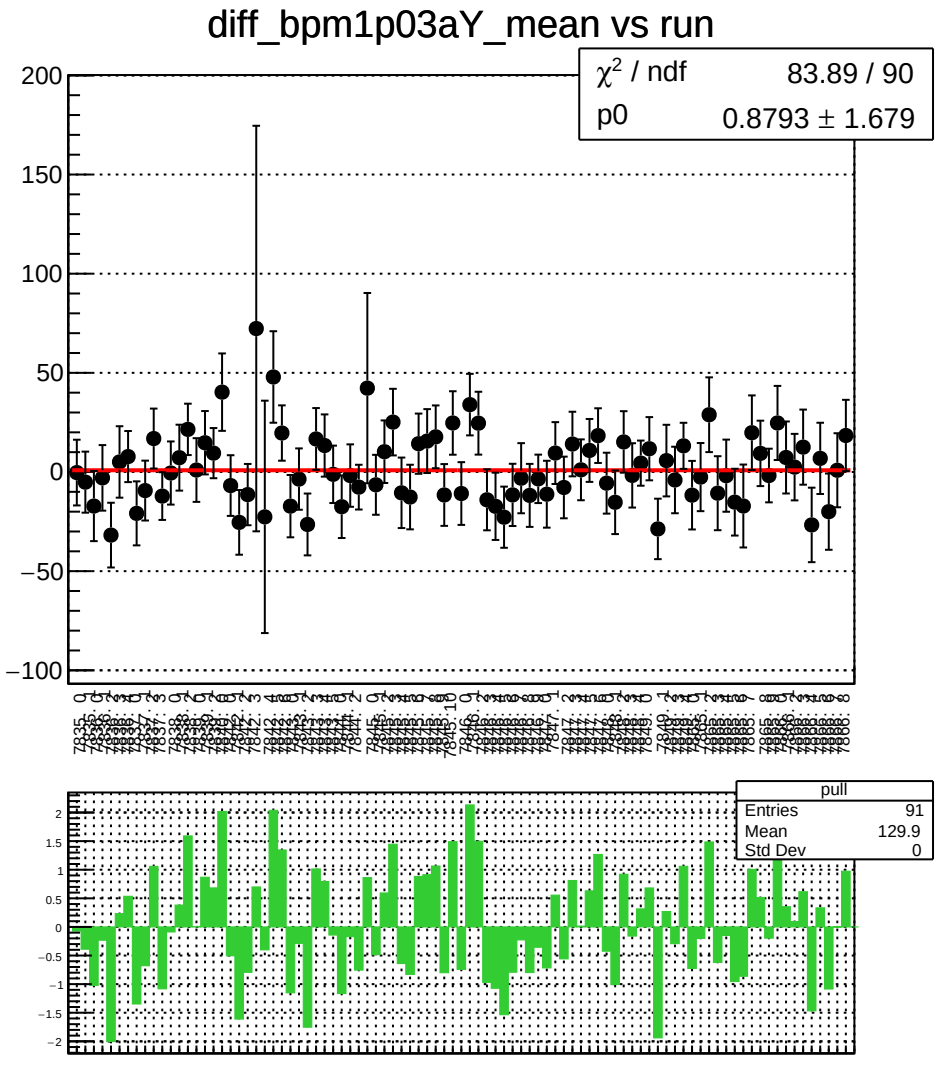

pull1D
Entries 91
Mean 0.007811
Std Dev 0.9327

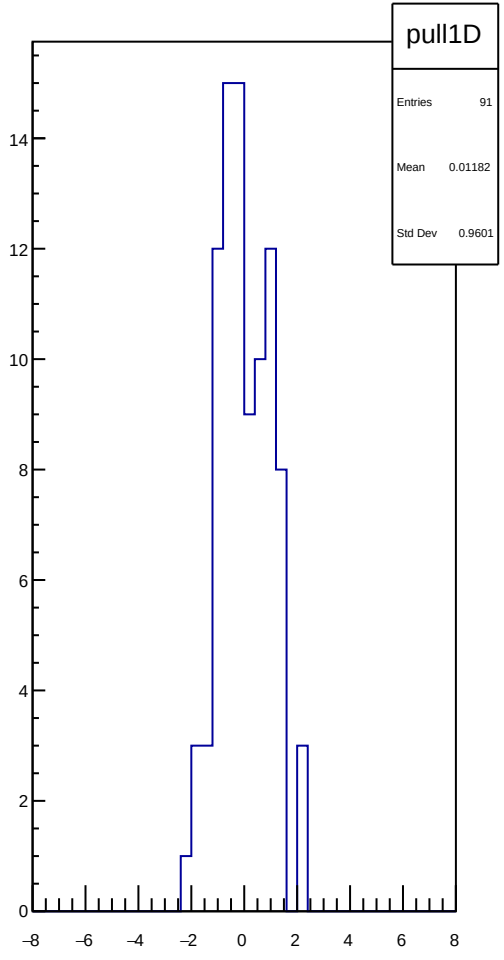

diff_bpm1p02bY_rms vs run
χ² / ndf 4.09e+04 / 90
p0 1987 ± 1.518
14000
12000
10000
8000
6000
4000
2000

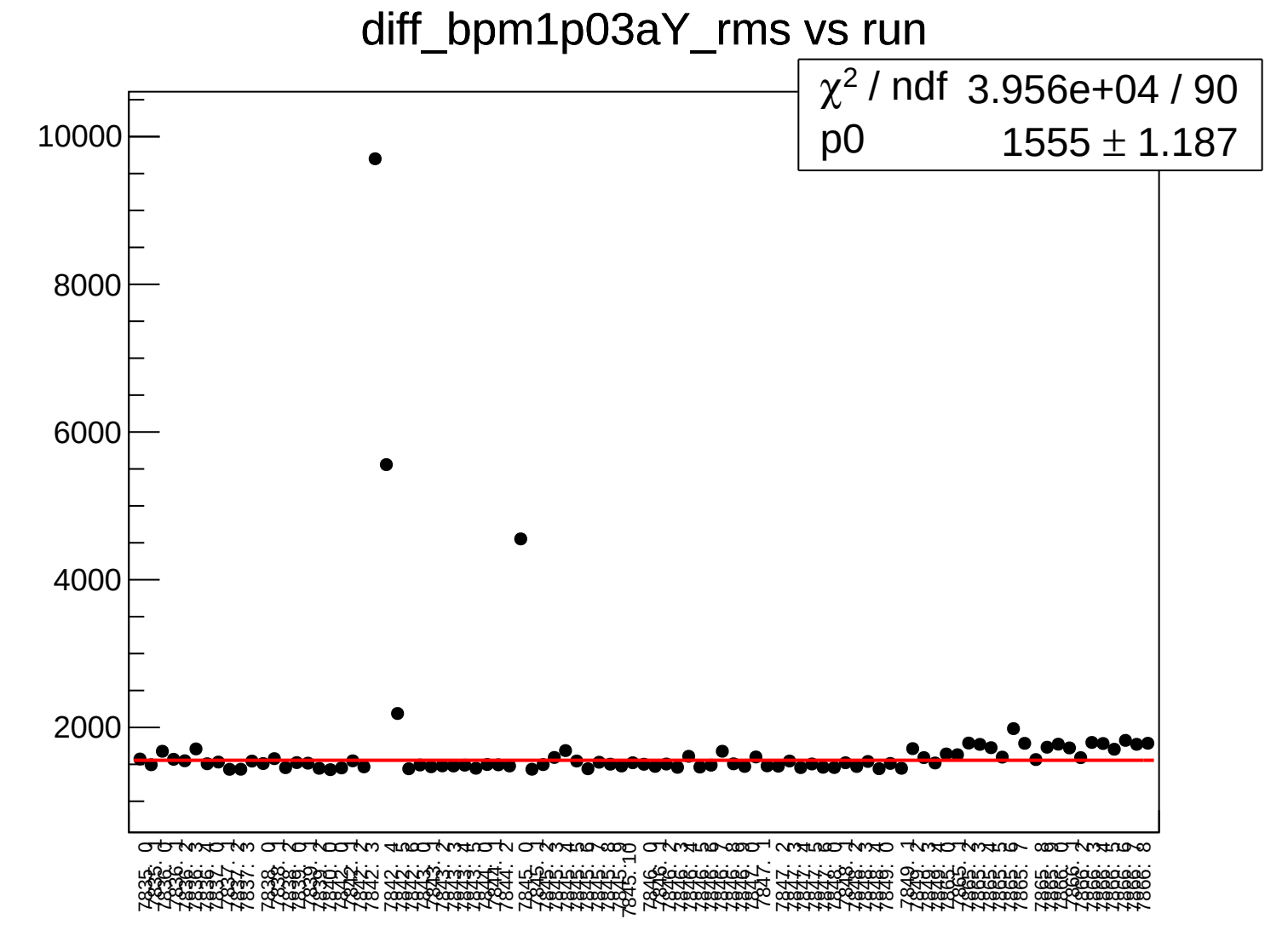

diff_bpm1p03aX_mean vs run
χ² / ndf 87.76 / 90
p0 1.543 ± 2.533
pull
Entries 91
Mean 53.66
Std Dev 0

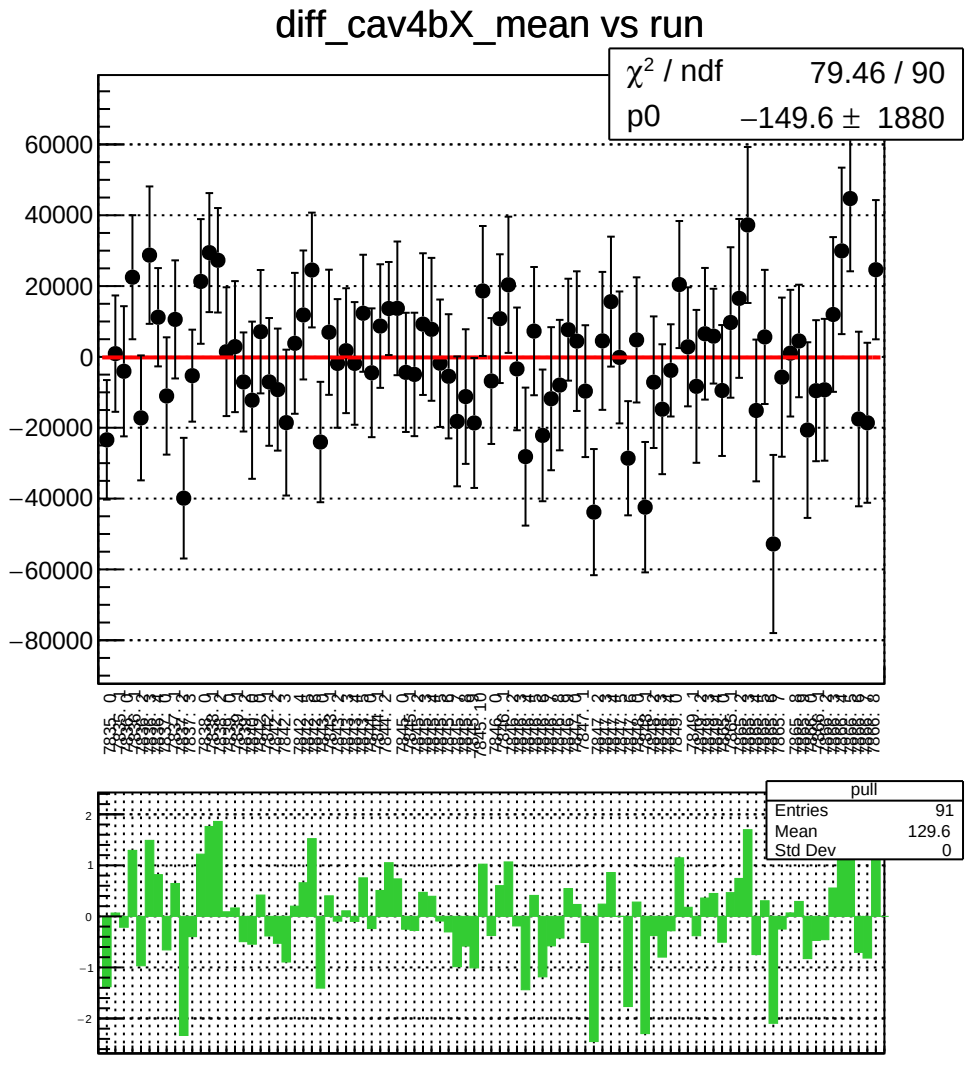

pull1D
Entries 91
Mean −0.02051
Std Dev 0.9818

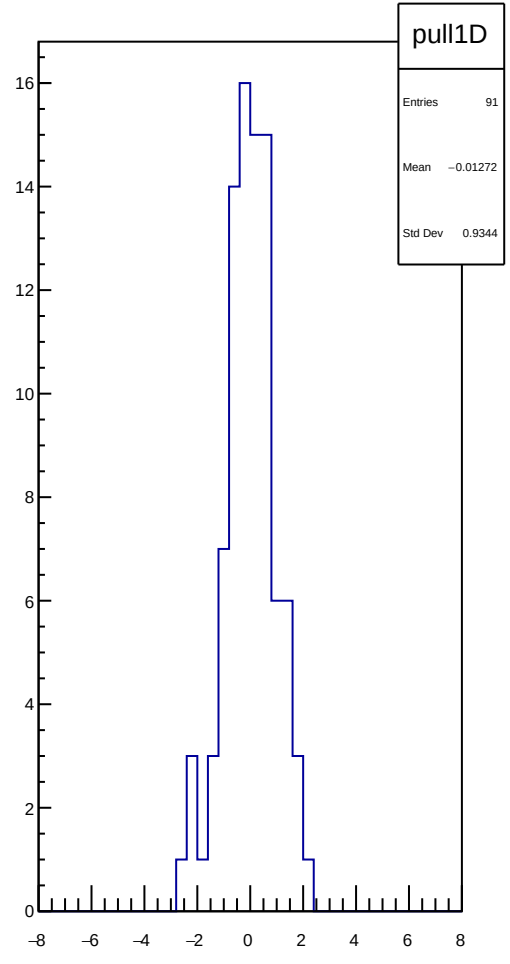

diff_bpm1p03aX_rms vs run
χ² / ndf 3.556e+04 / 90
p0 2348 ± 1.791
8000
7000
6000
5000
4000
3000
2000

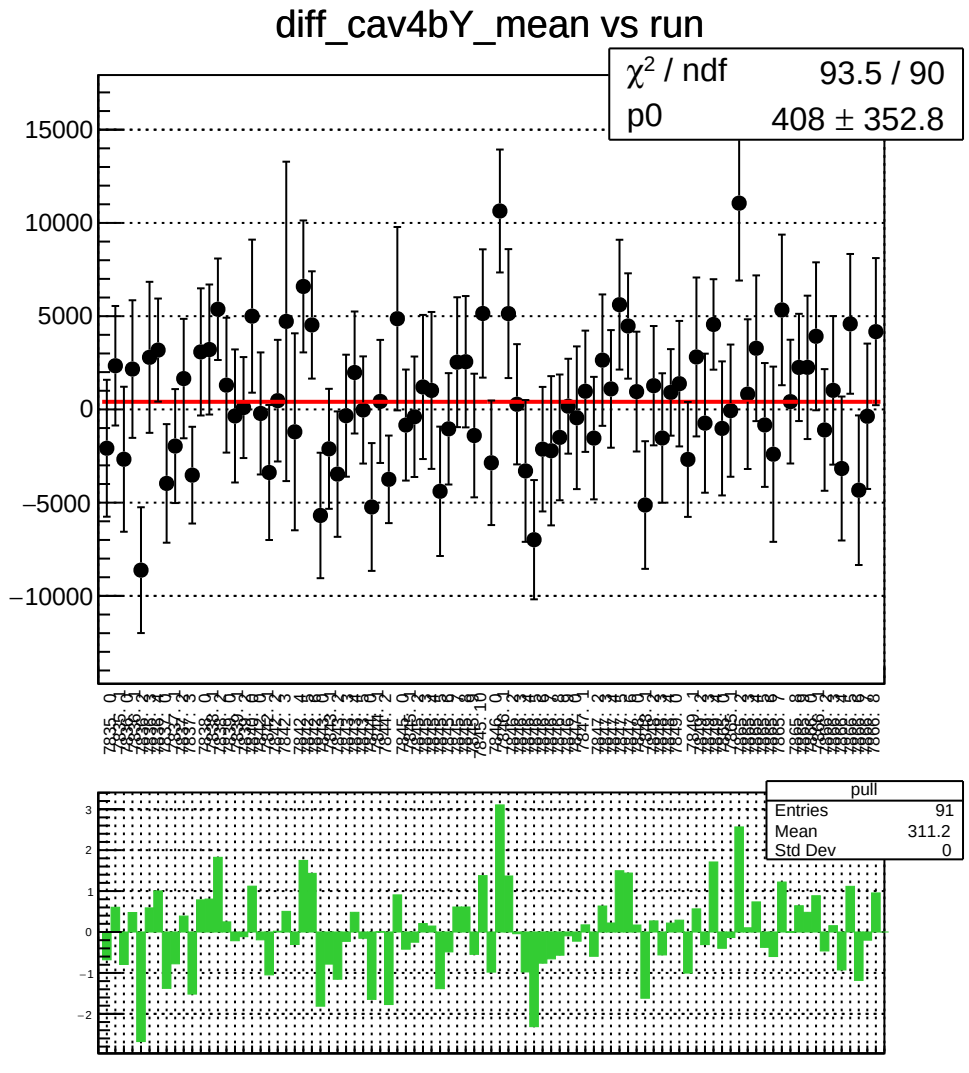

diff_bpm1p03aY_mean vs run
χ² / ndf 83.89 / 90
p0 0.8793 ± 1.679
pull
Entries 91
Mean 129.9
Std Dev 0

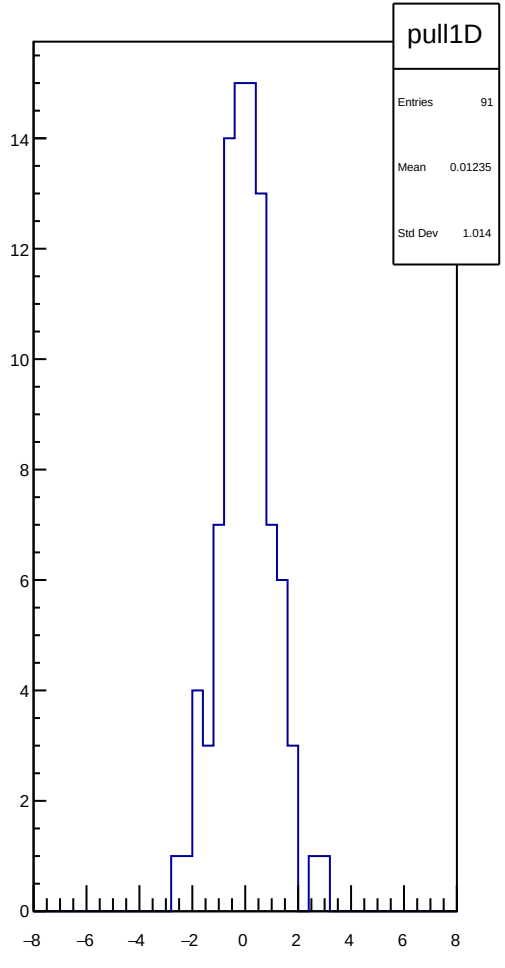

pull1D
Entries 91
Mean 0.01182
Std Dev 0.9601

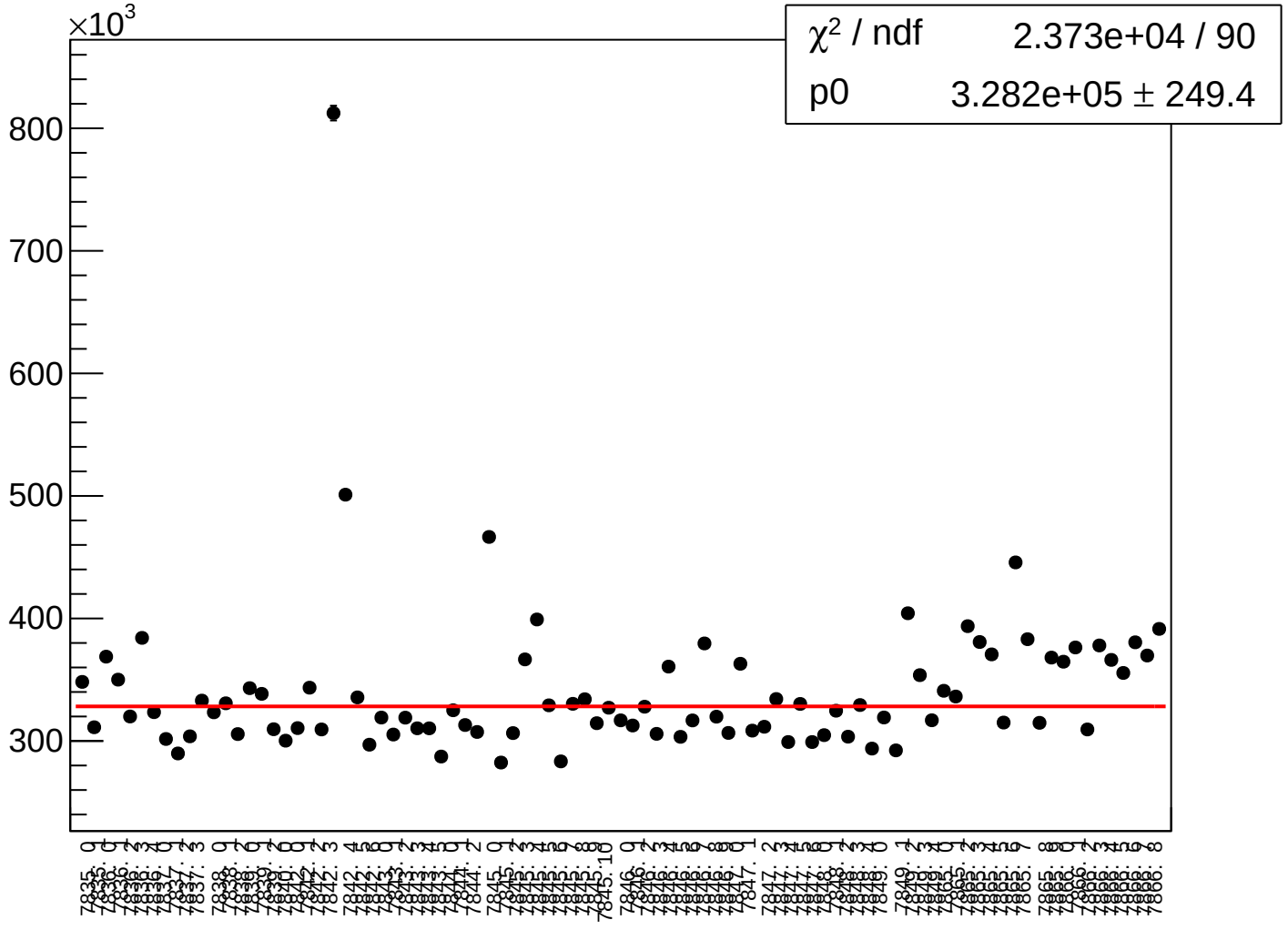

diff_bpm1p03aY_rms vs run
χ^2 / ndf 3.956e+04 / 90
p0 1555 ± 1.187
10000
8000
6000
4000
2000

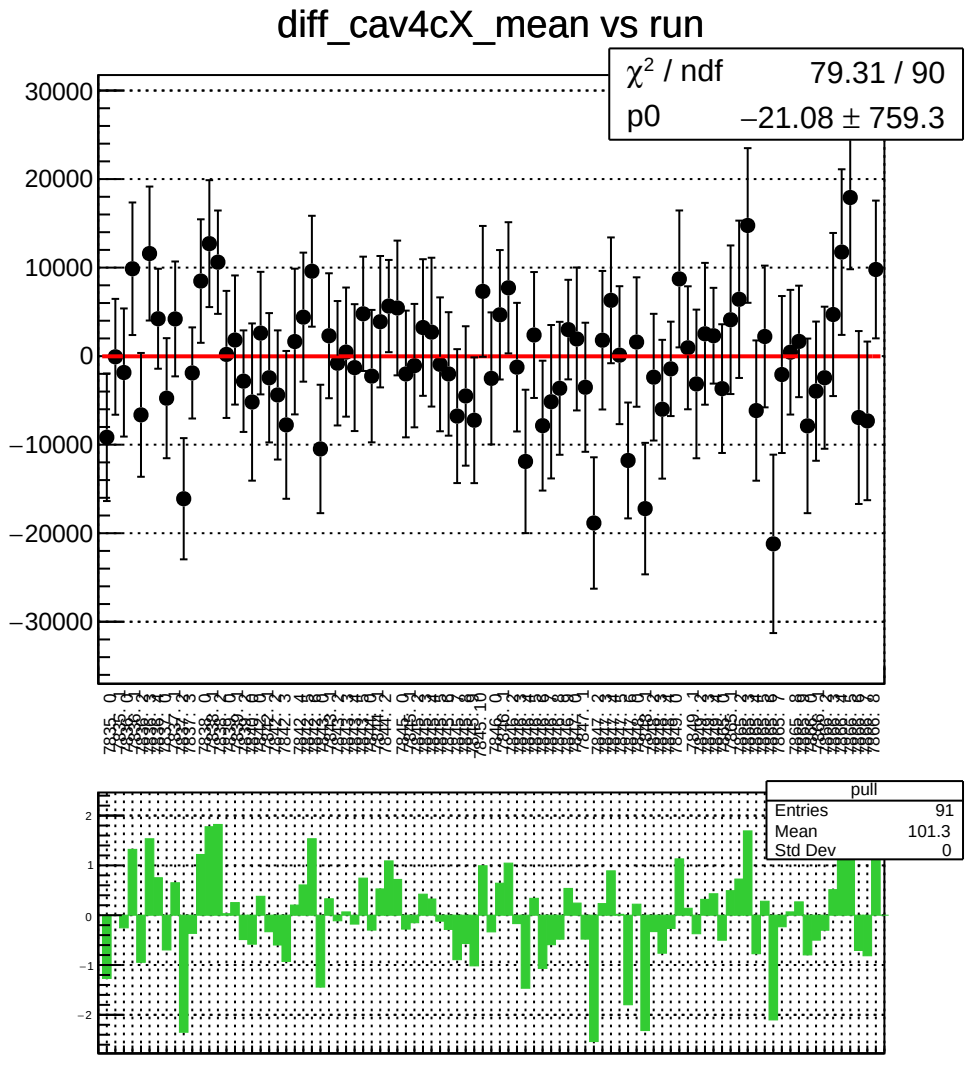

diff_cav4bX_mean vs run
χ² / ndf 79.46 / 90
p0 −149.6 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 129.6
Std Dev 0
2
1
0
−1
−2

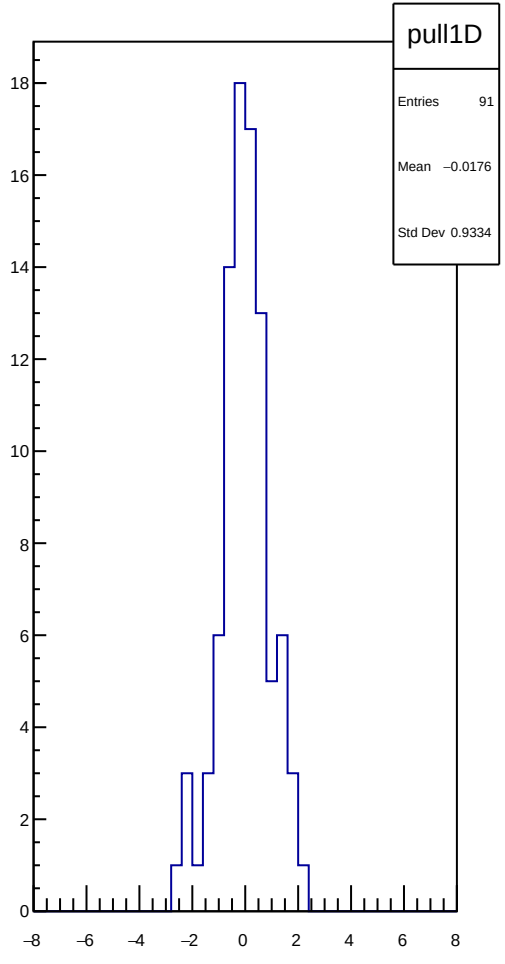

pull1D
Entries 91
Mean −0.01272
Std Dev 0.9344
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

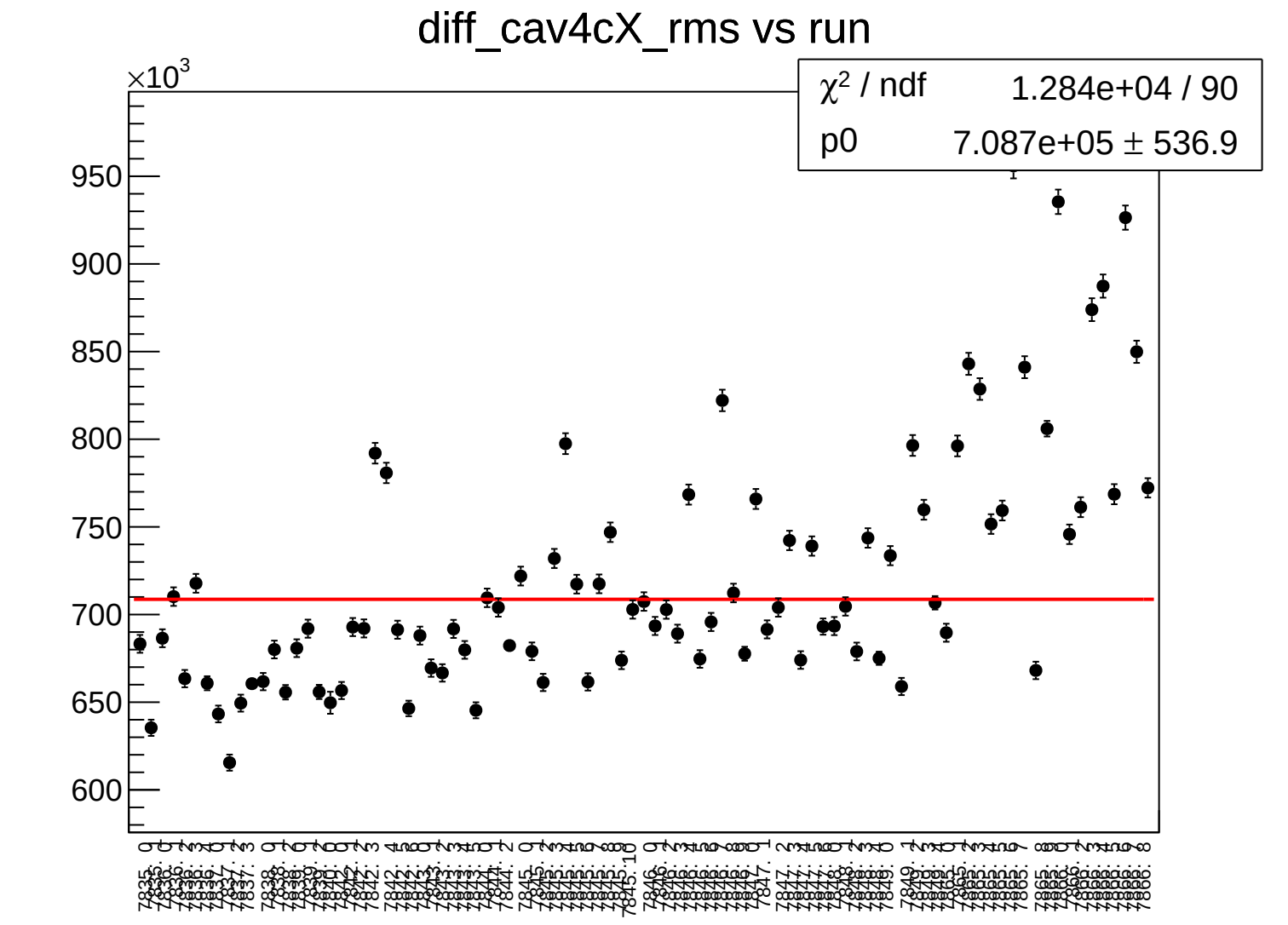

diff_cav4bY_mean vs run
χ² / ndf 93.5 / 90
p0 408 ± 352.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 311.2
Std Dev 0
3
2
1
0
−1
−2

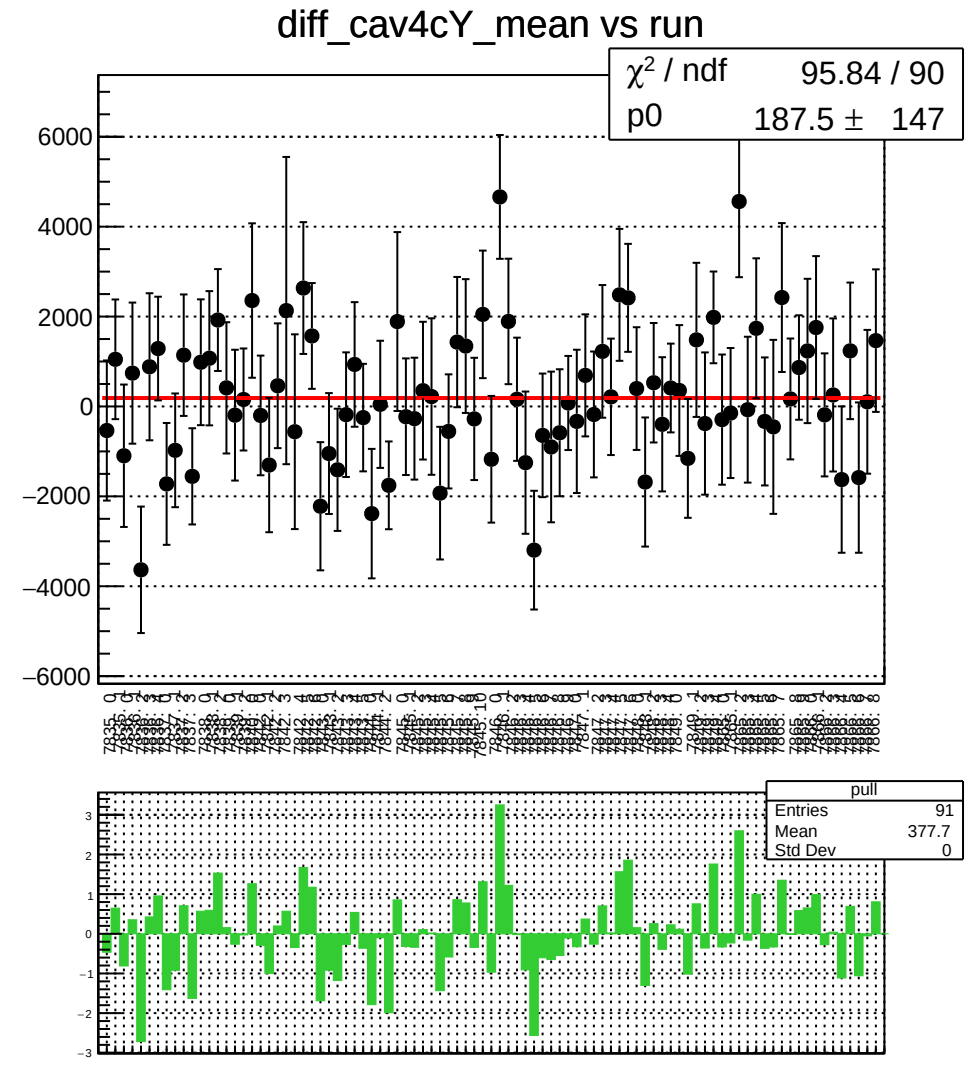

pull1D
Entries 91
Mean 0.01235
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

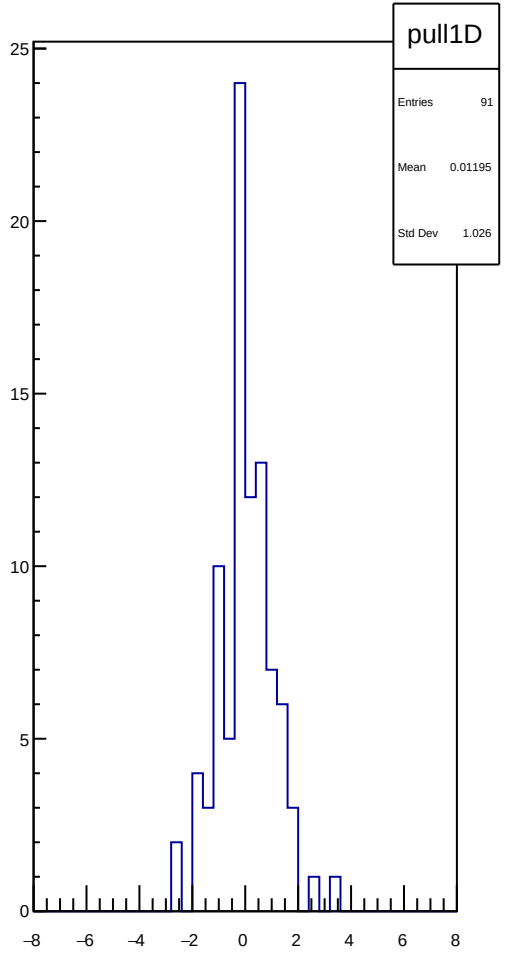

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 2.373e+04 / 90
p0 3.282e+05 ± 249.4
800
700
600
500
400
300

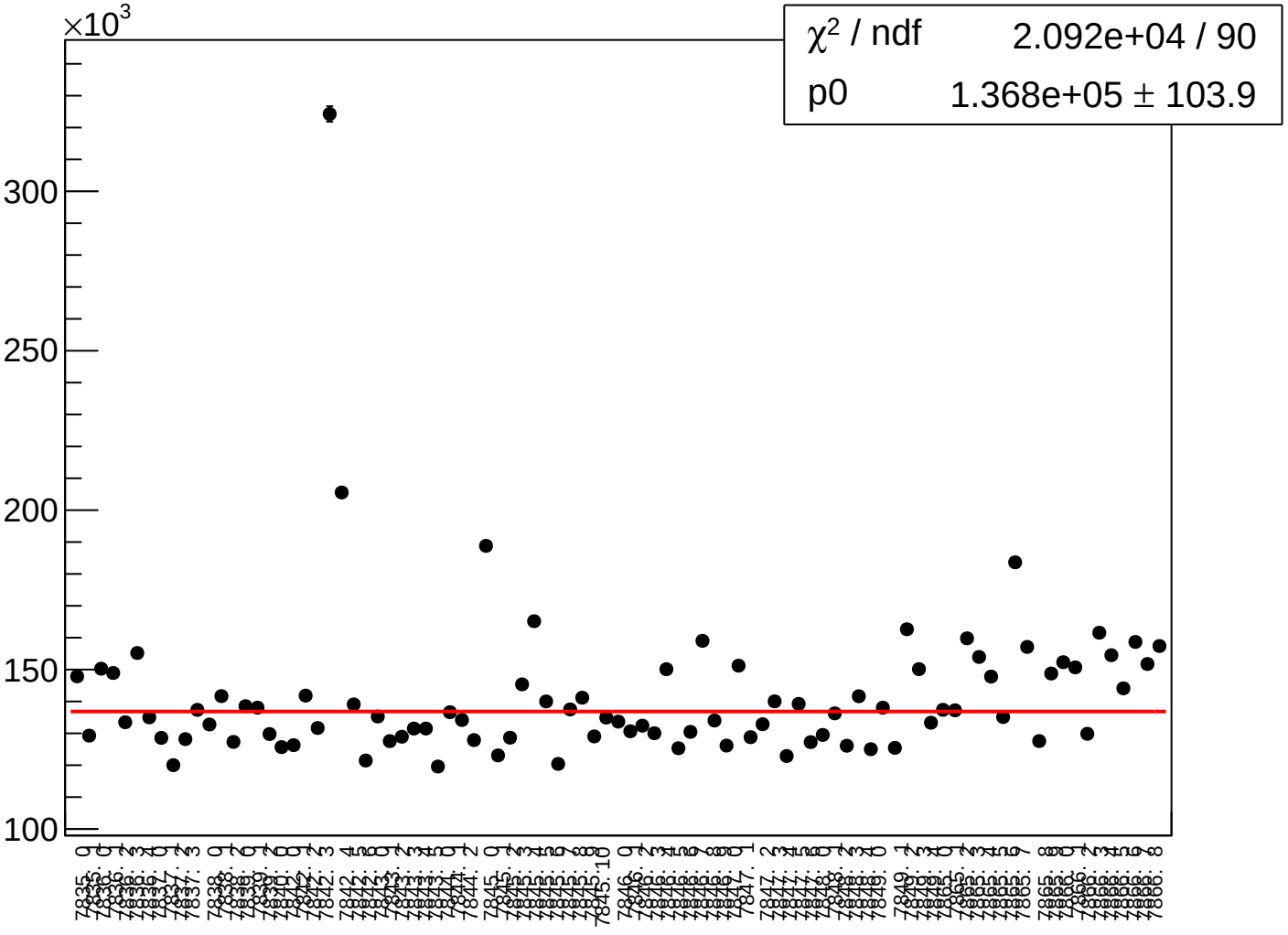

diff_cav4cX_mean vs run
χ² / ndf 79.31 / 90
p0 −21.08 ± 759.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 101.3
Std Dev 0
2
1
0
−1
−2

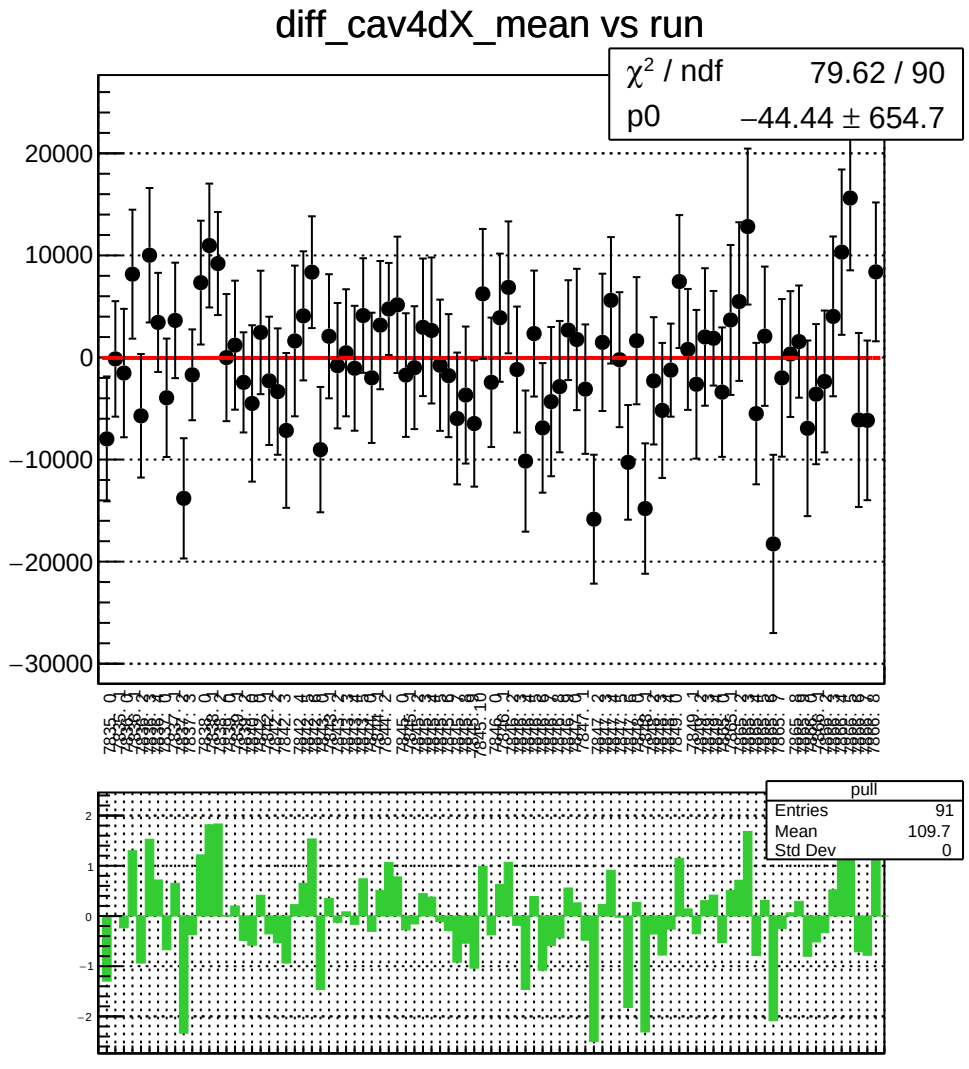

pull1D
Entries 91
Mean −0.0176
Std Dev 0.9334
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

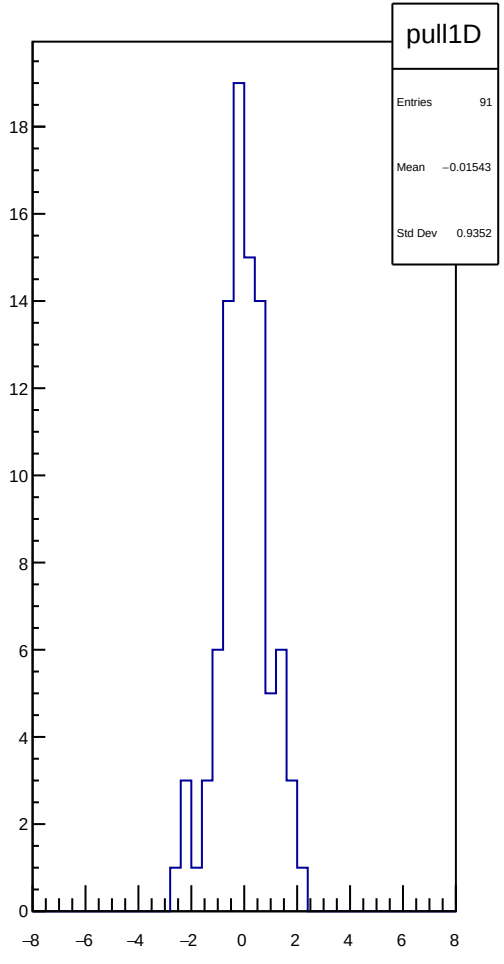

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.284e+04 / 90
p0 7.087e+05 ± 536.9
950
900
850
800
750
700
650
600

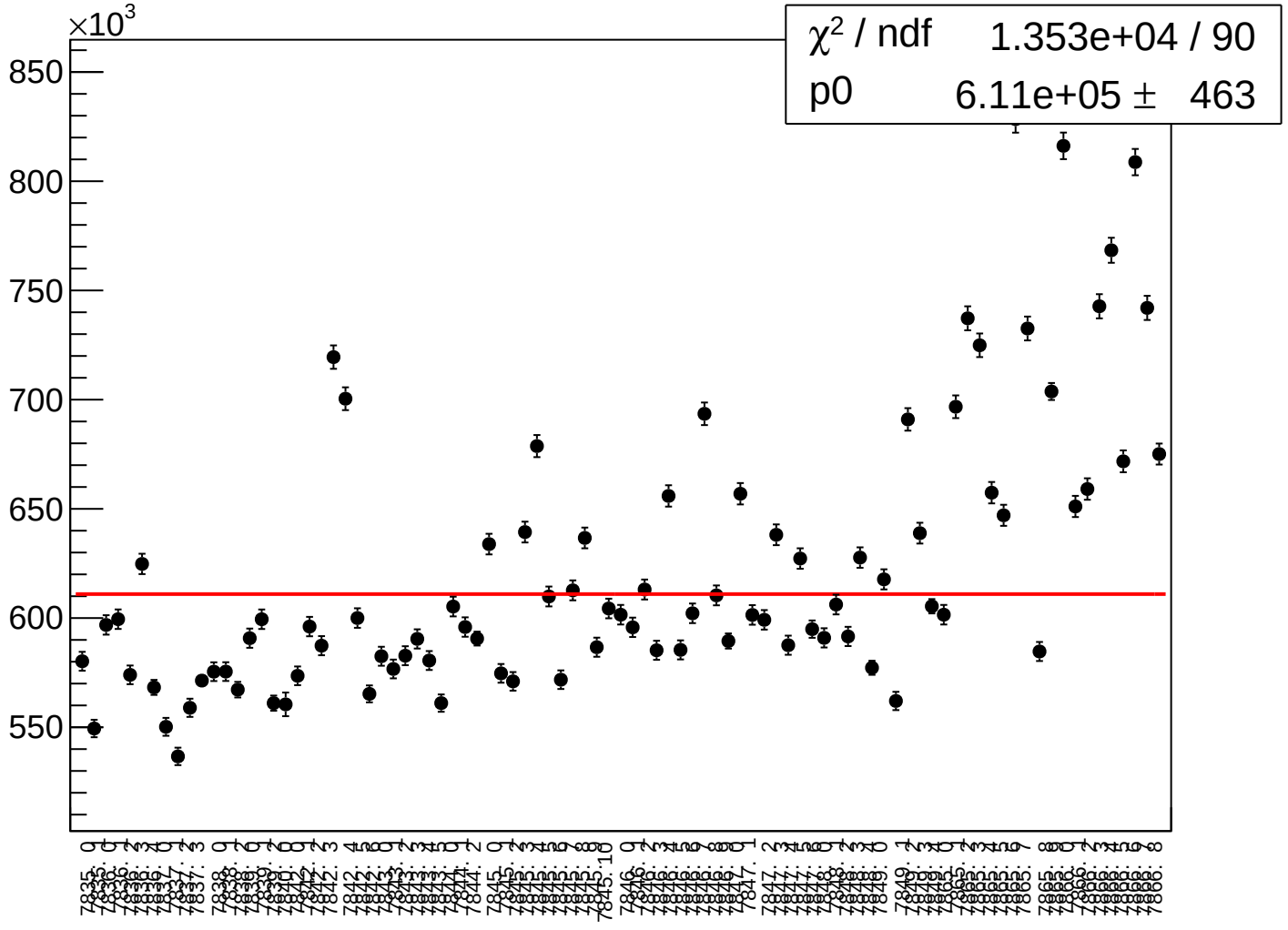

diff_cav4cY_mean vs run
χ² / ndf 95.84 / 90
p0 187.5 ± 147
pull
Entries 91
Mean 377.7
Std Dev 0

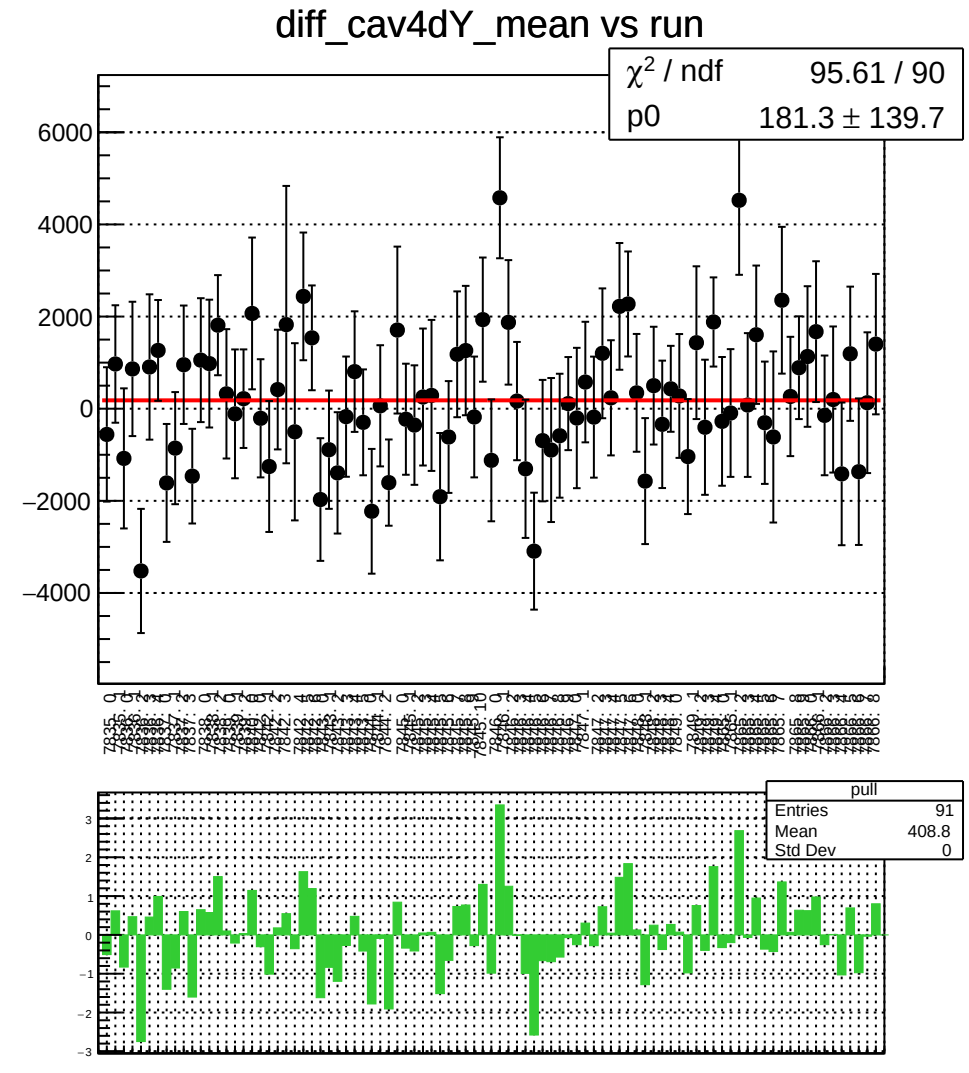

pull1D
Entries 91
Mean 0.01195
Std Dev 1.026

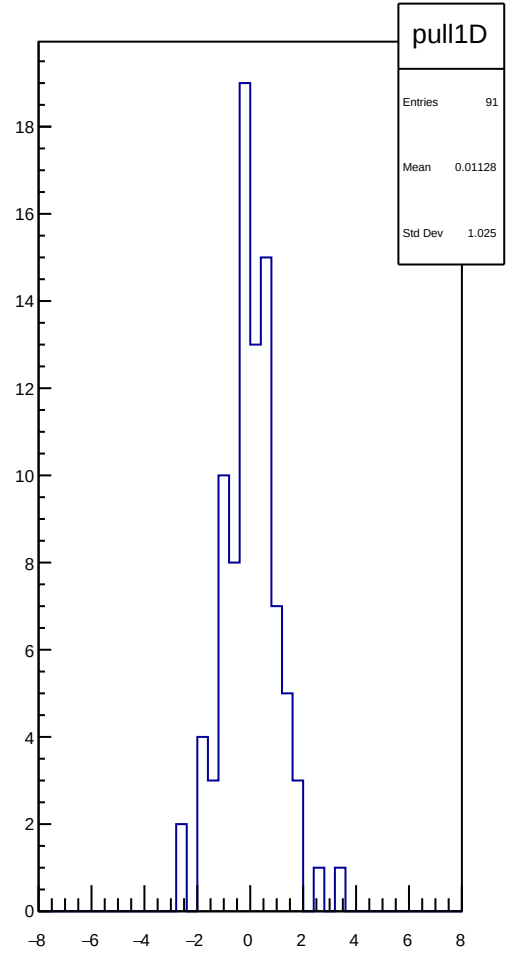

diff_cav4cY_rms vs run
×10^3
χ² / ndf 2.092e+04 / 90
p0 1.368e+05 ± 103.9
300
250
200
150
100

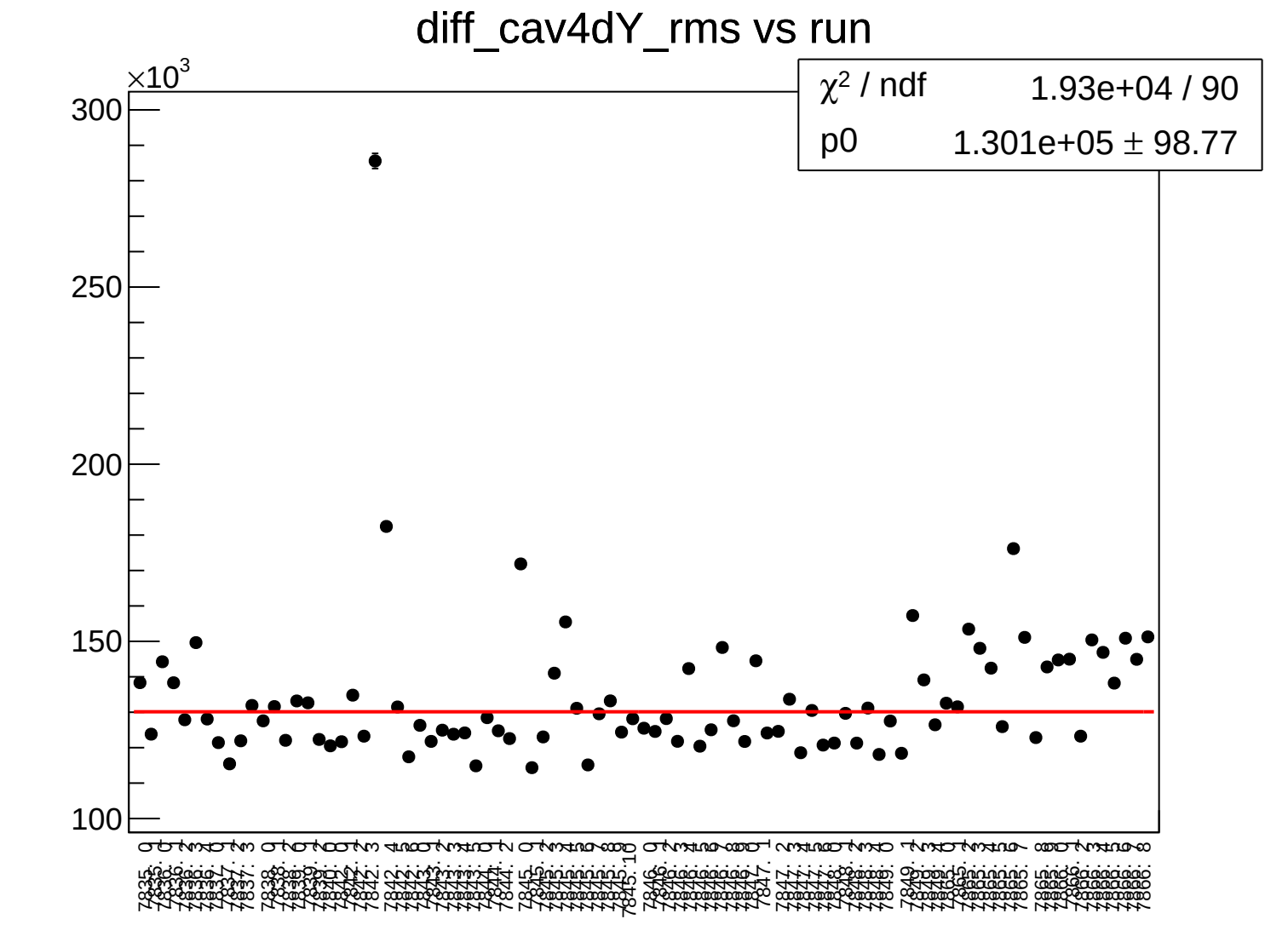

diff_cav4dX_mean vs run
χ² / ndf 79.62 / 90
p0 −44.44 ± 654.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 109.7
Std Dev 0
2
1
0
−1
−2

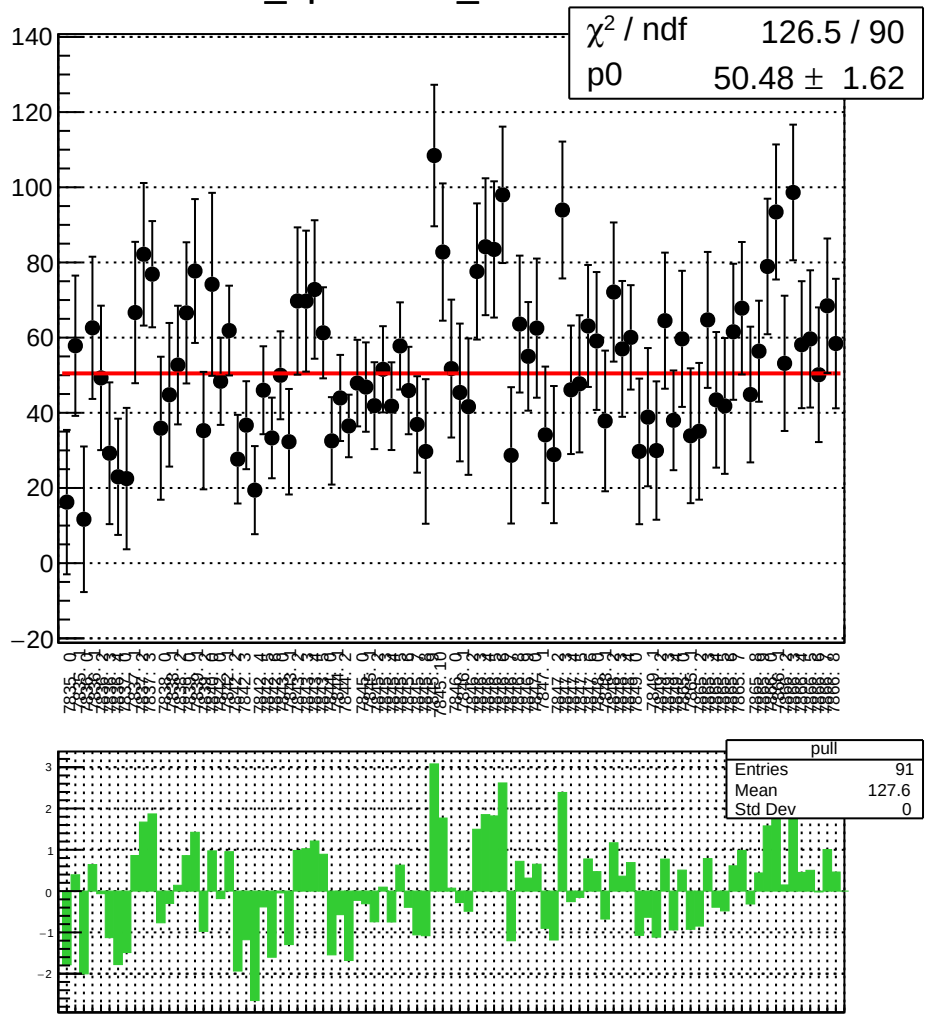

pull1D
Entries 91
Mean −0.01543
Std Dev 0.9352
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

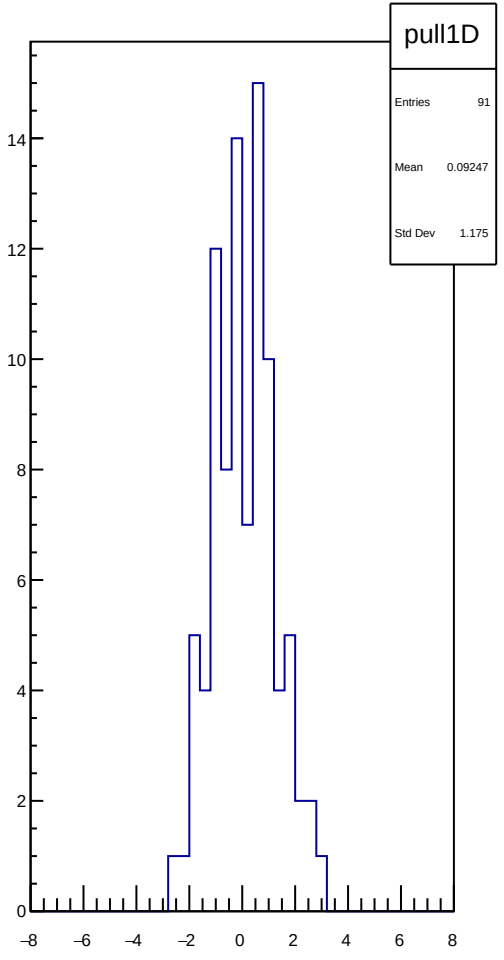

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.353e+04 / 90
p0 6.11e+05 ± 463
850
800
750
700
650
600
550

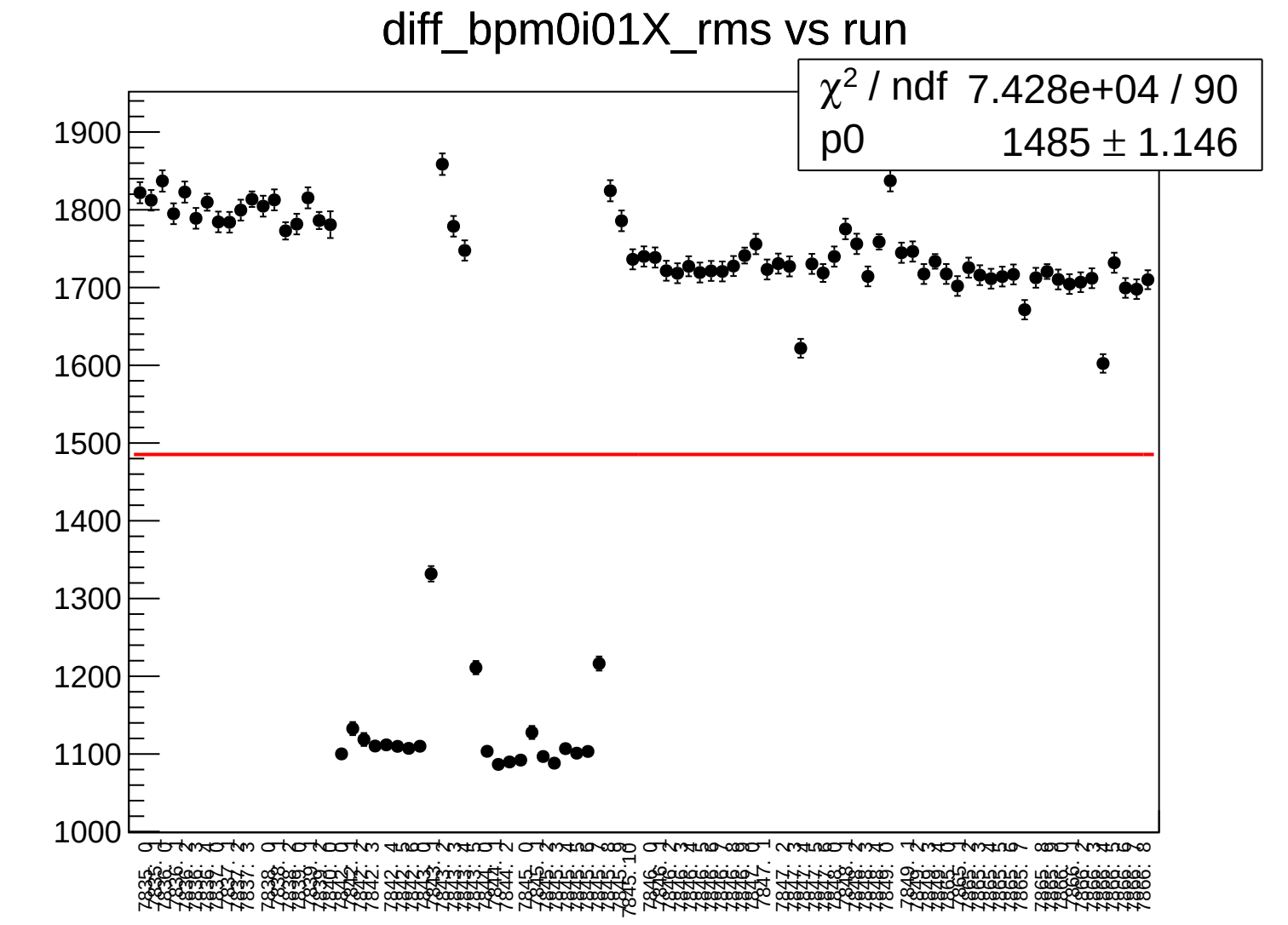

diff_cav4dY_mean vs run
χ² / ndf 95.61 / 90
p0 181.3 ± 139.7
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 408.8
Std Dev 0
3
2
1
0
−1
−2
−3

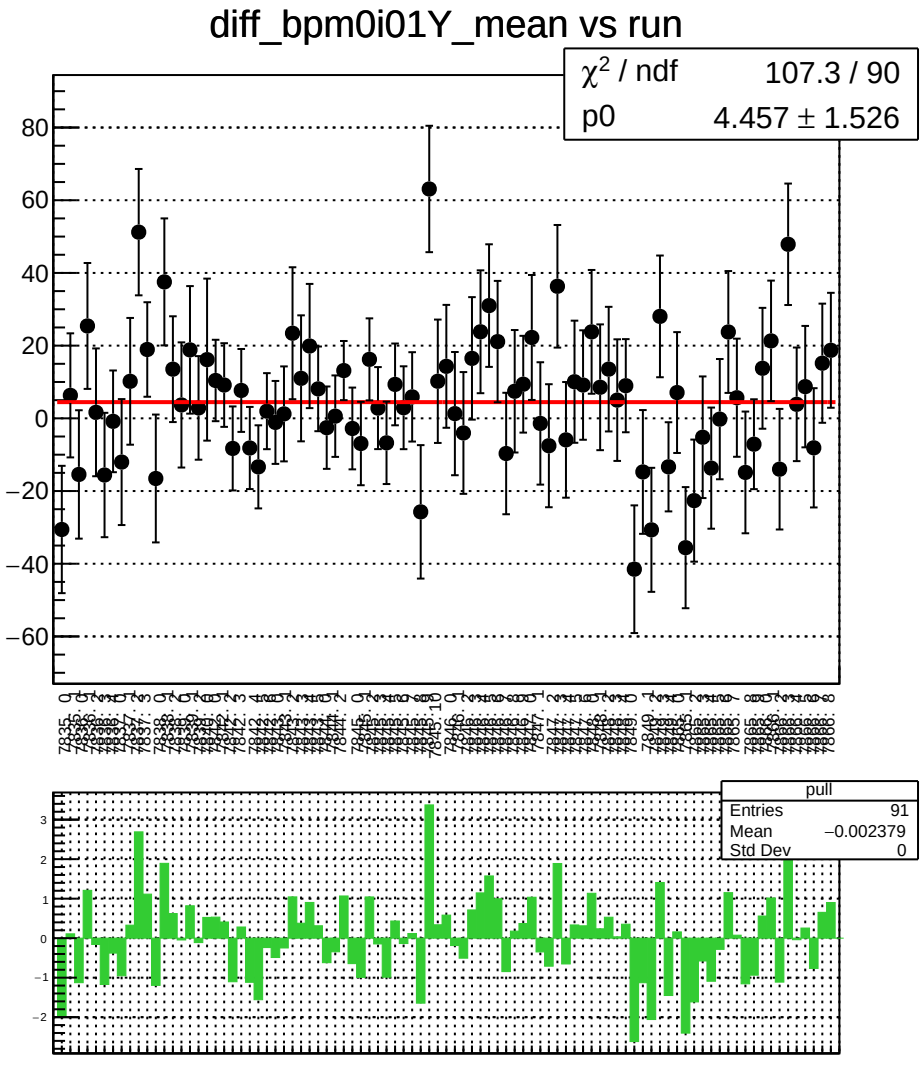

pull1D
Entries 91
Mean 0.01128
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

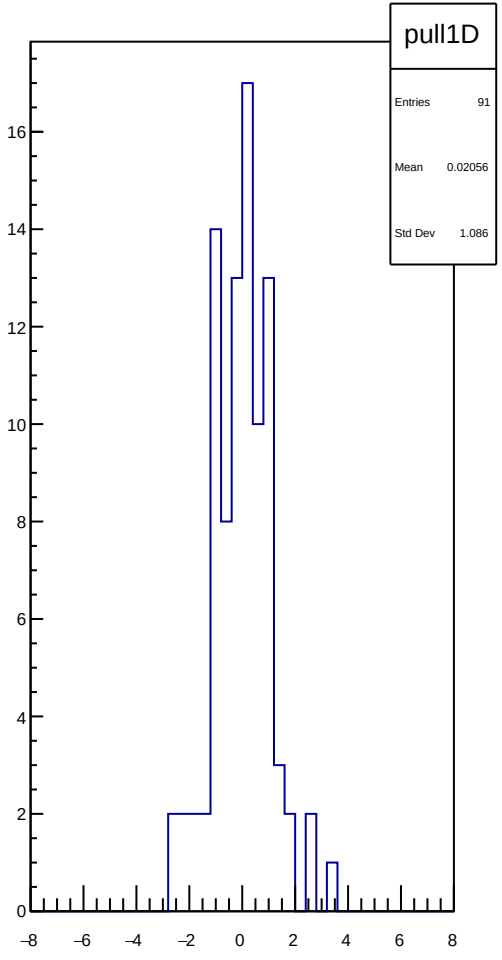

diff_cav4dY_rms vs run
×10^3
300
250
200
150
100
χ² / ndf 1.93e+04 / 90
p0 1.301e+05 ± 98.77

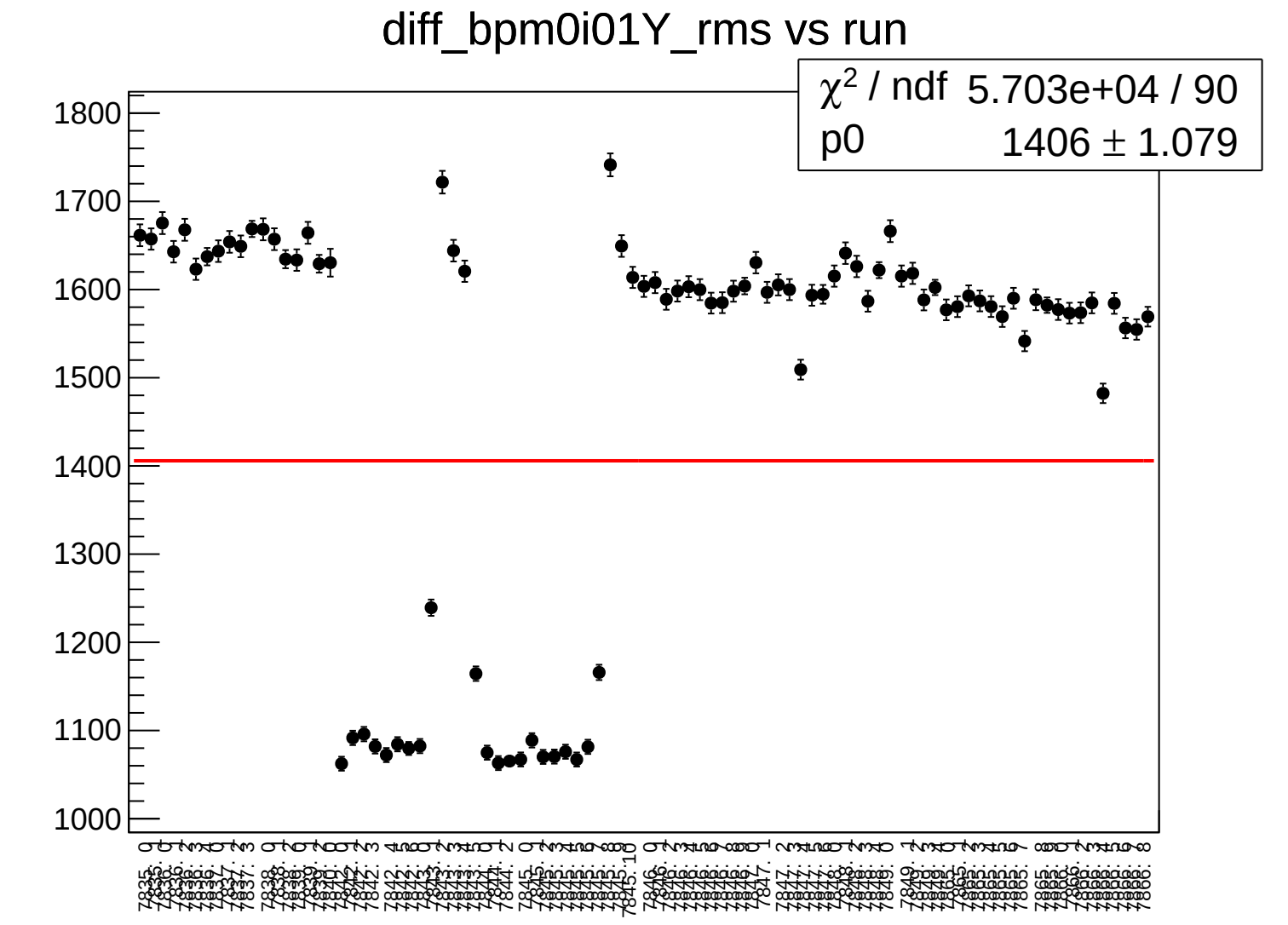

diff_bpm0i01X_mean vs run
χ² / ndf 126.5 / 90
p0 50.48 ± 1.62
pull
Entries 91
Mean 127.6
Std Dev 0

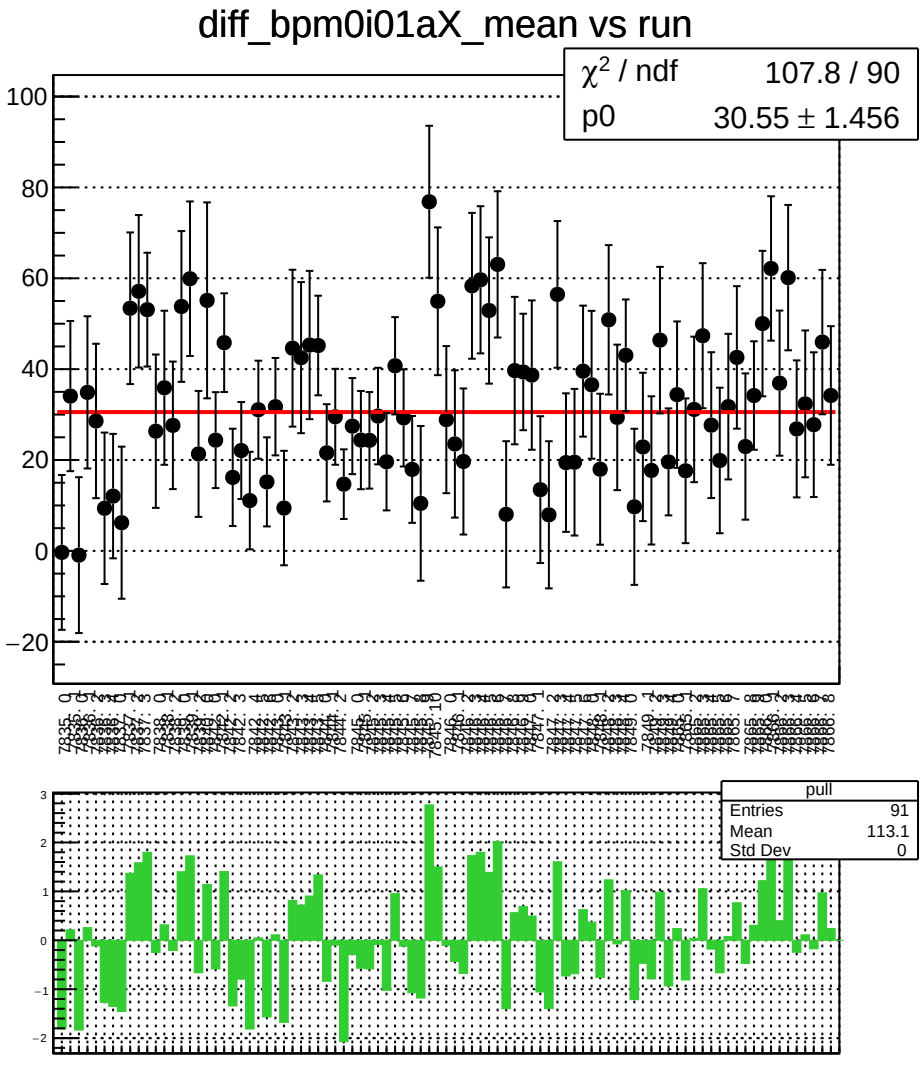

pull1D
Entries 91
Mean 0.09247
Std Dev 1.175

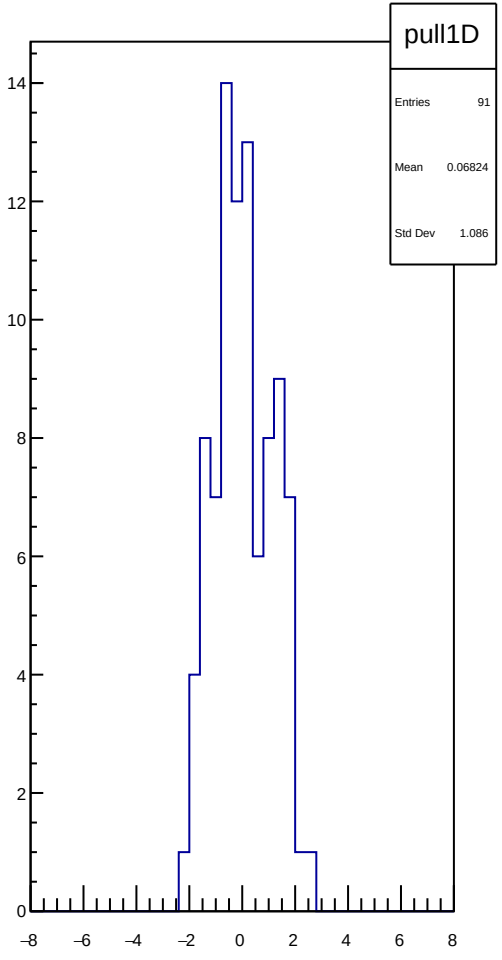

diff_bpm0i01X_rms vs run
χ² / ndf 7.428e+04 / 90
p0 1485 ± 1.146
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

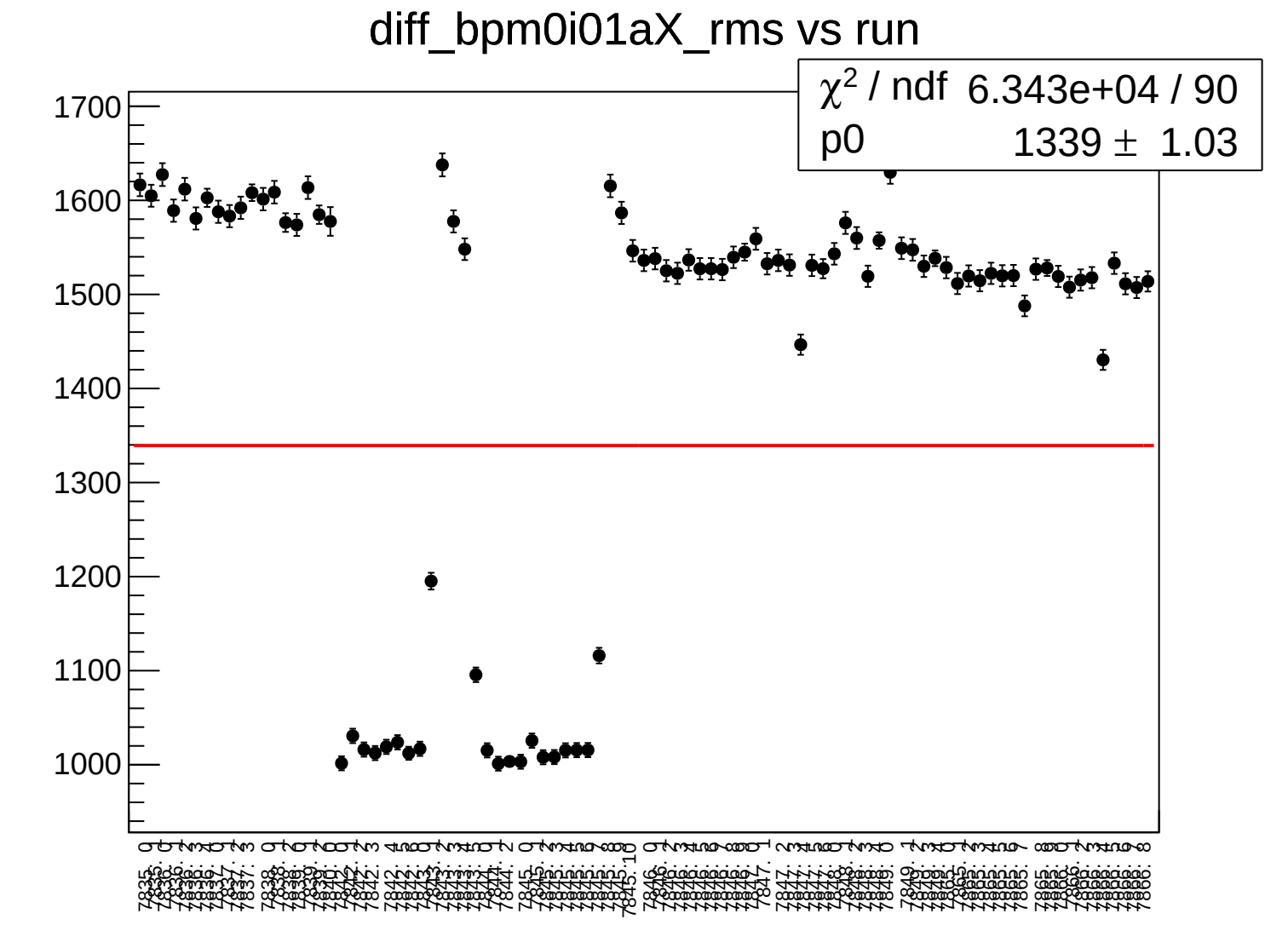

diff_bpm0i01Y_mean vs run
χ^2 / ndf 107.3 / 90
p0 4.457 ± 1.526
pull
Entries 91
Mean −0.002379
Std Dev 0

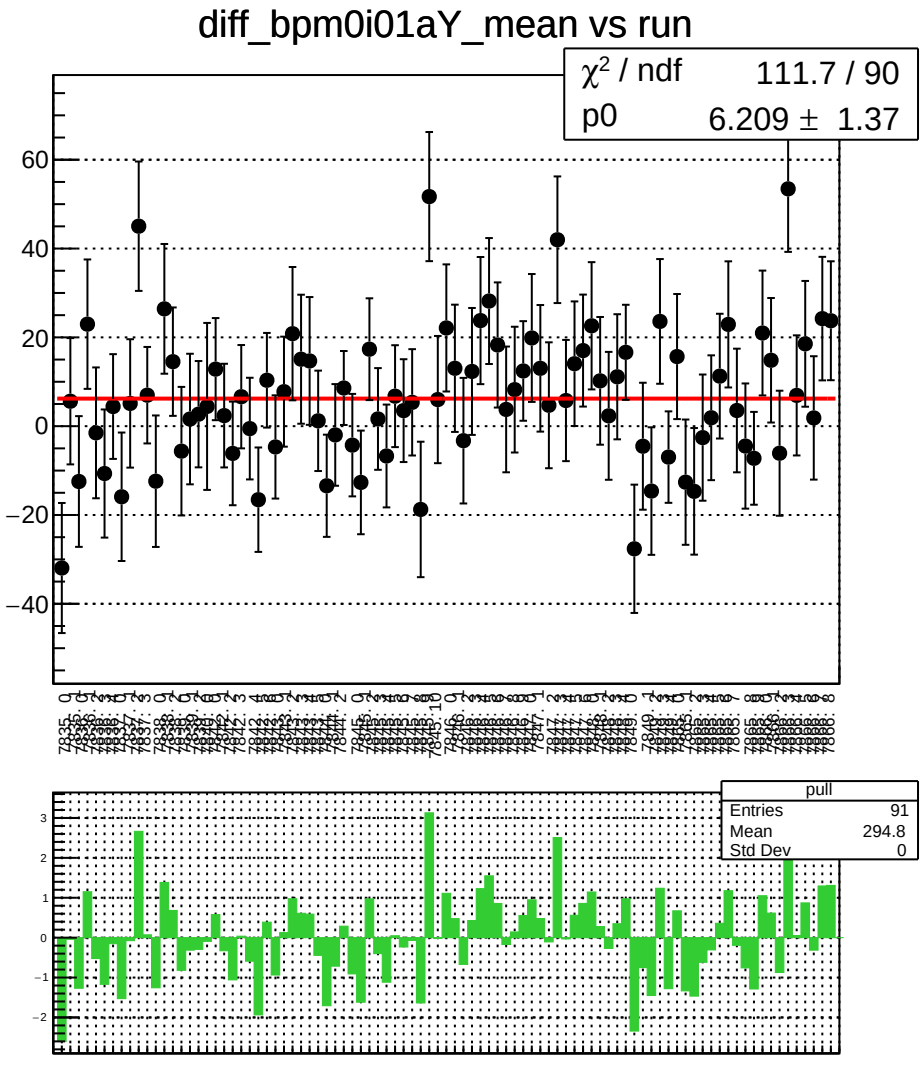

pull1D
Entries 91
Mean 0.02056
Std Dev 1.086

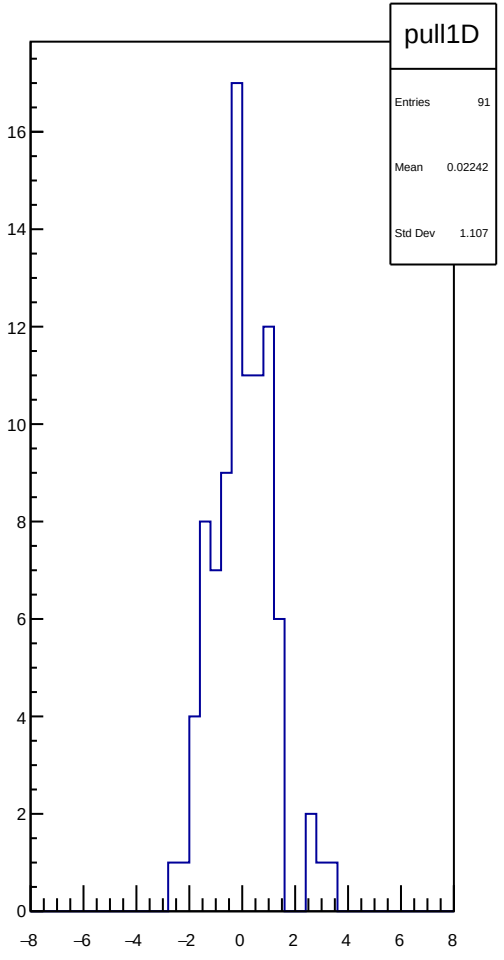

diff_bpm0i01Y_rms vs run
χ^2 / ndf 5.703e+04 / 90
p0 1406 ± 1.079
1800
1700
1600
1500
1400
1300
1200
1100
1000

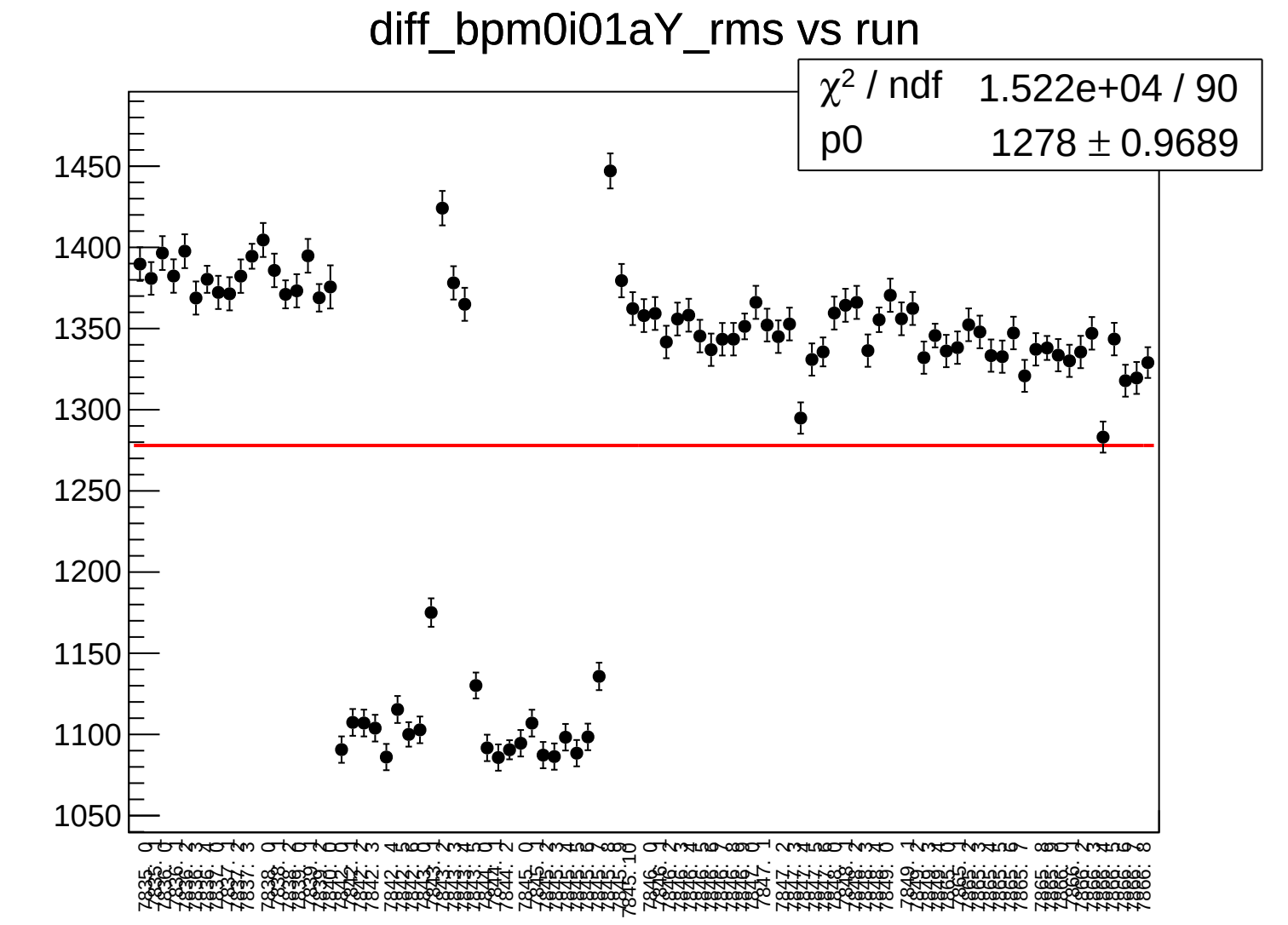

diff_bpm0i01aX_mean vs run
χ² / ndf 107.8 / 90
p0 30.55 ± 1.456
pull
Entries 91
Mean 113.1
Std Dev 0

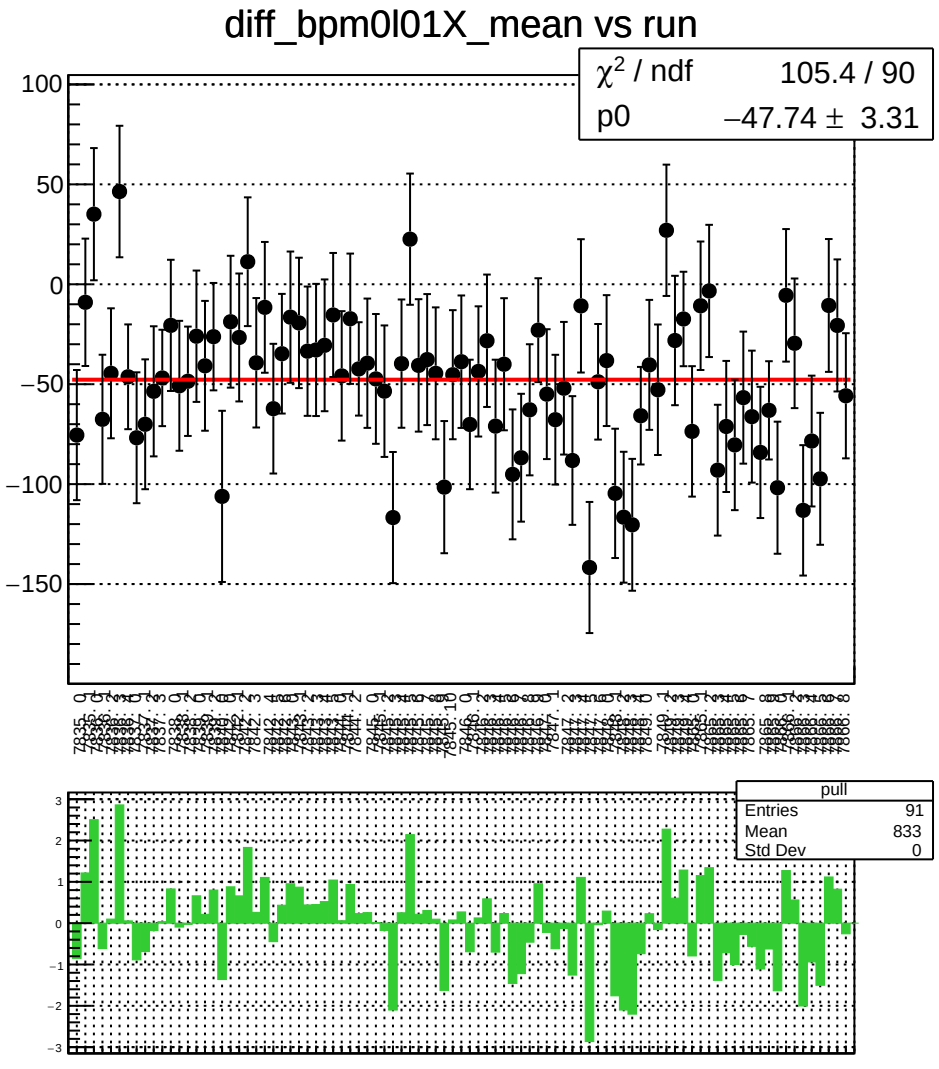

pull1D
Entries 91
Mean 0.06824
Std Dev 1.086

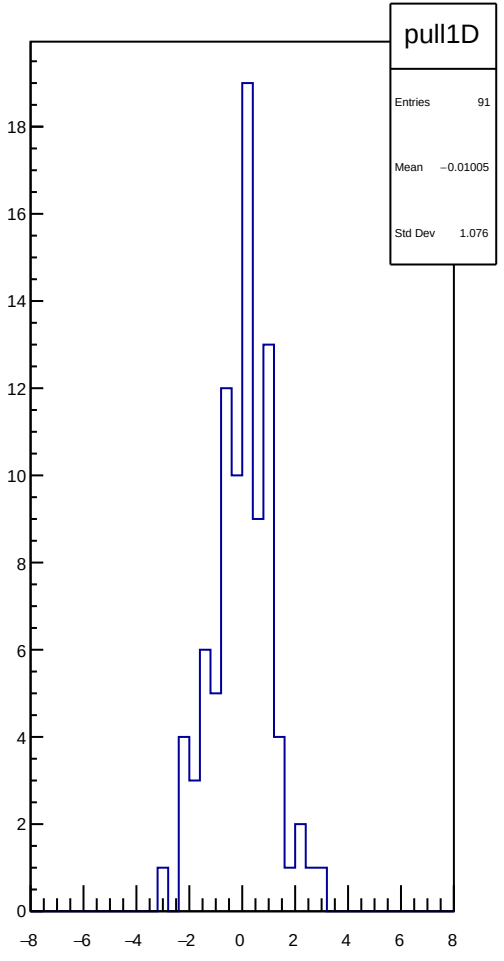

diff_bpm0i01aX_rms vs run
χ² / ndf 6.343e+04 / 90
p0 1339 ± 1.03
1700
1600
1500
1400
1300
1200
1100
1000

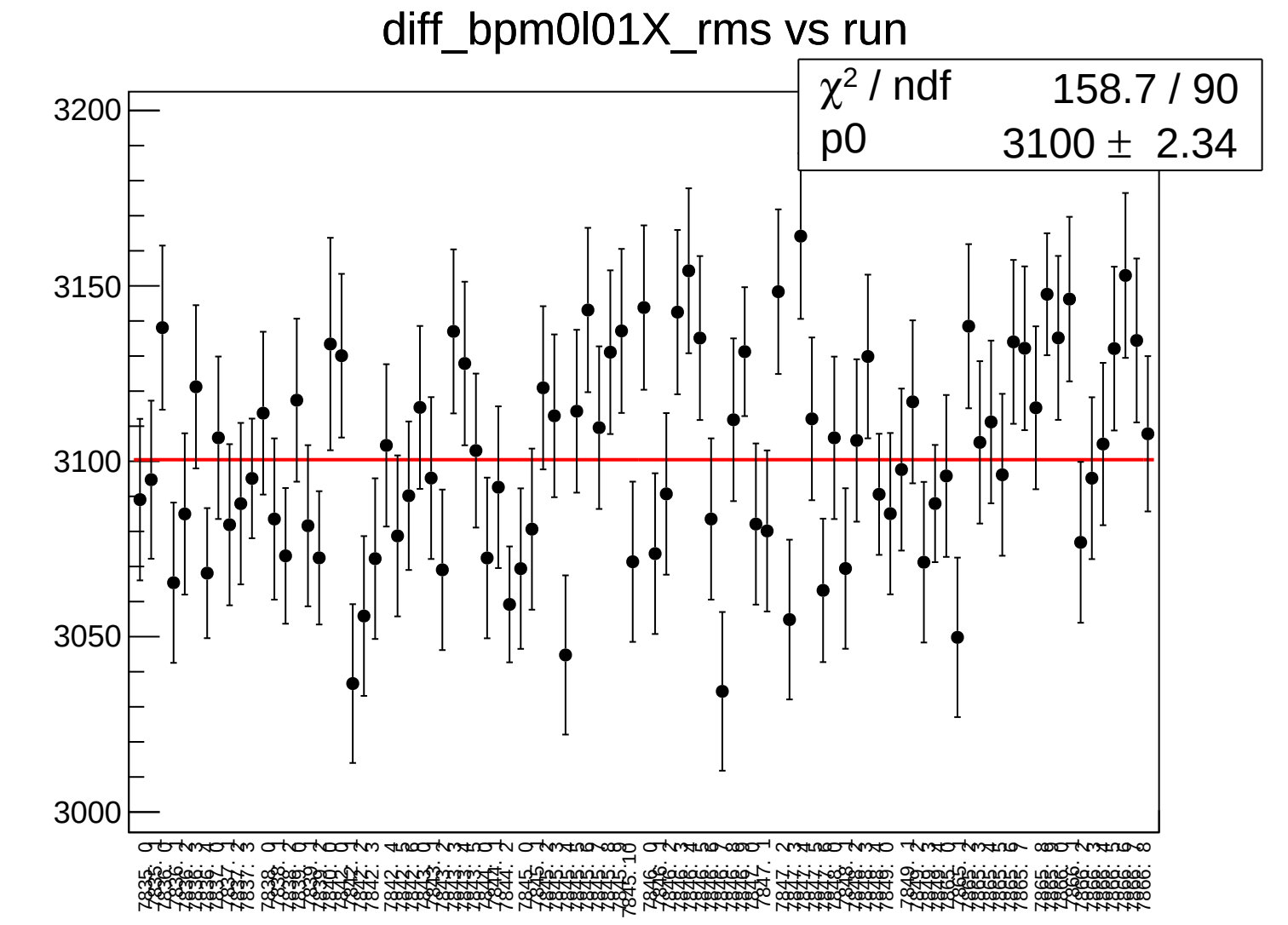

diff_bpm0i01aY_mean vs run
χ² / ndf 111.7 / 90
p0 6.209 ± 1.37
pull
Entries 91
Mean 294.8
Std Dev 0

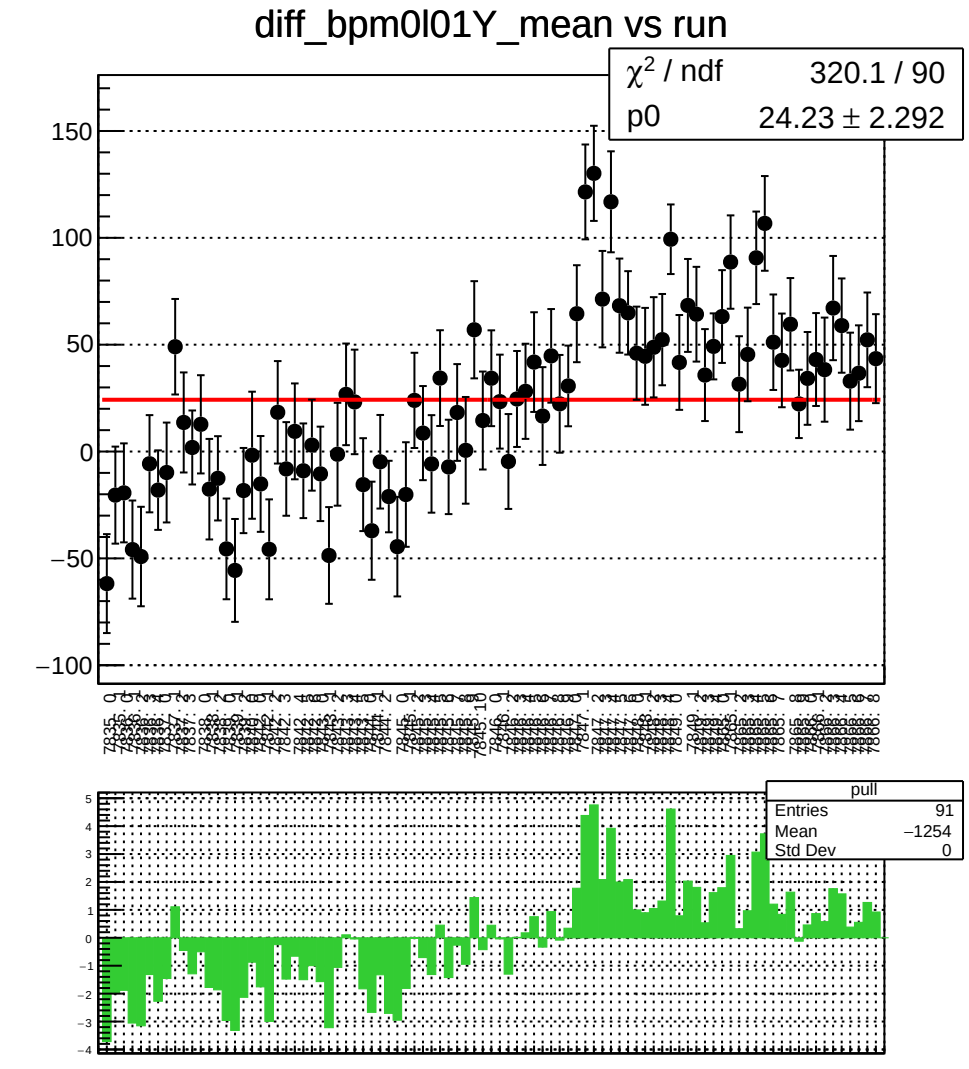

pull1D
Entries 91
Mean 0.02242
Std Dev 1.107

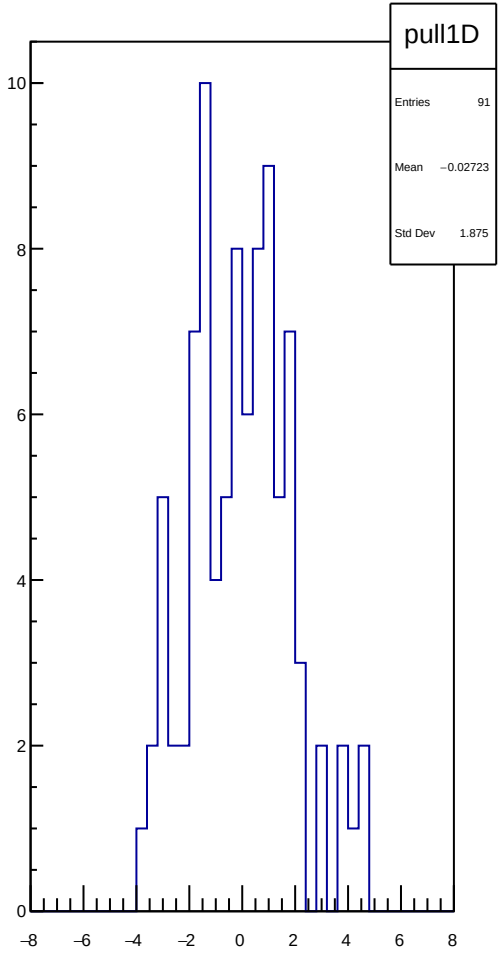

diff_bpm0i01aY_rms vs run
χ² / ndf 1.522e+04 / 90
p0 1278 ± 0.9689
1450
1400
1350
1300
1250
1200
1150
1100
1050

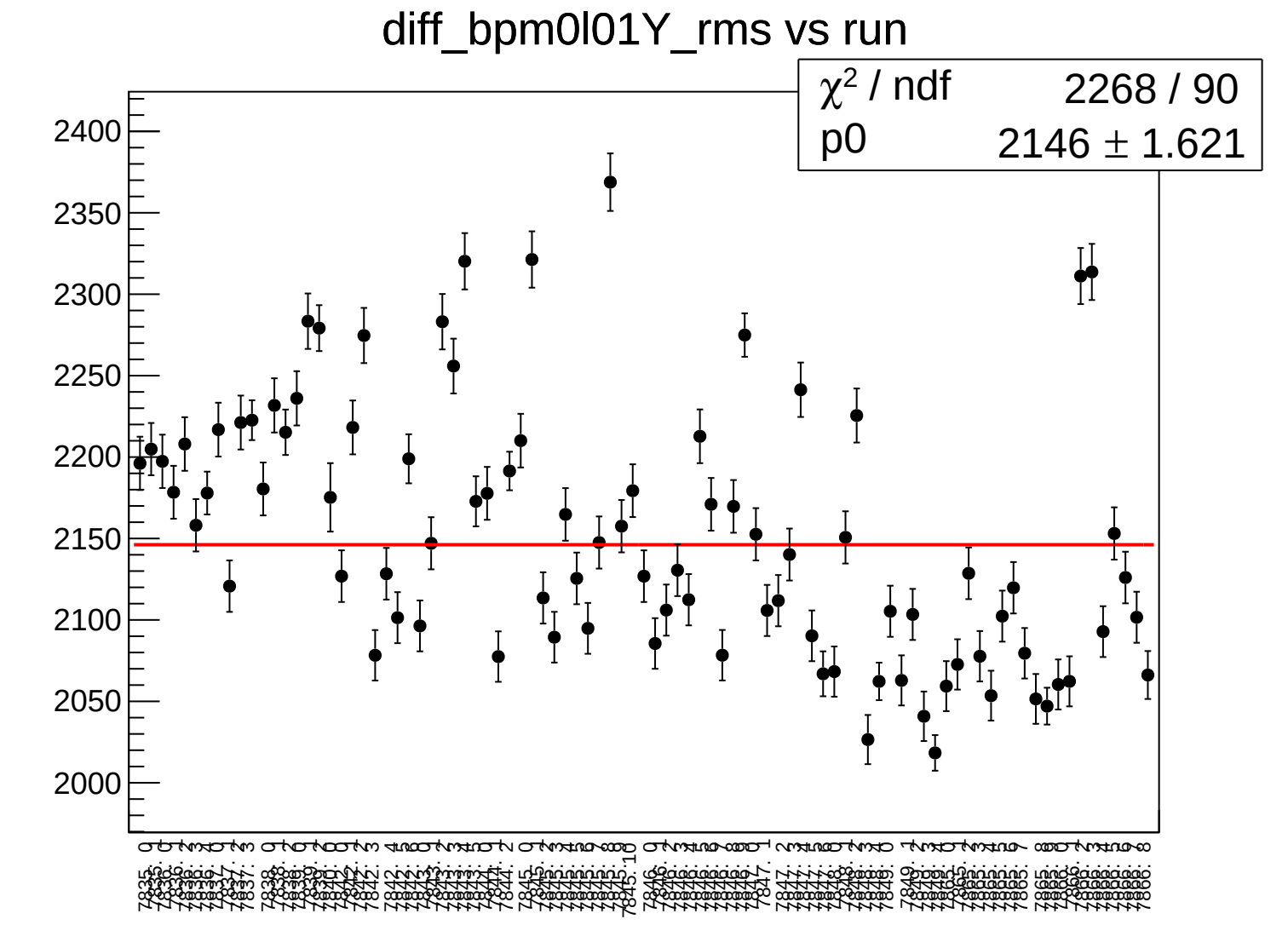

diff_bpm0l01X_mean vs run
χ² / ndf 105.4 / 90
p0 −47.74 ± 3.31
pull
Entries 91
Mean 833
Std Dev 0

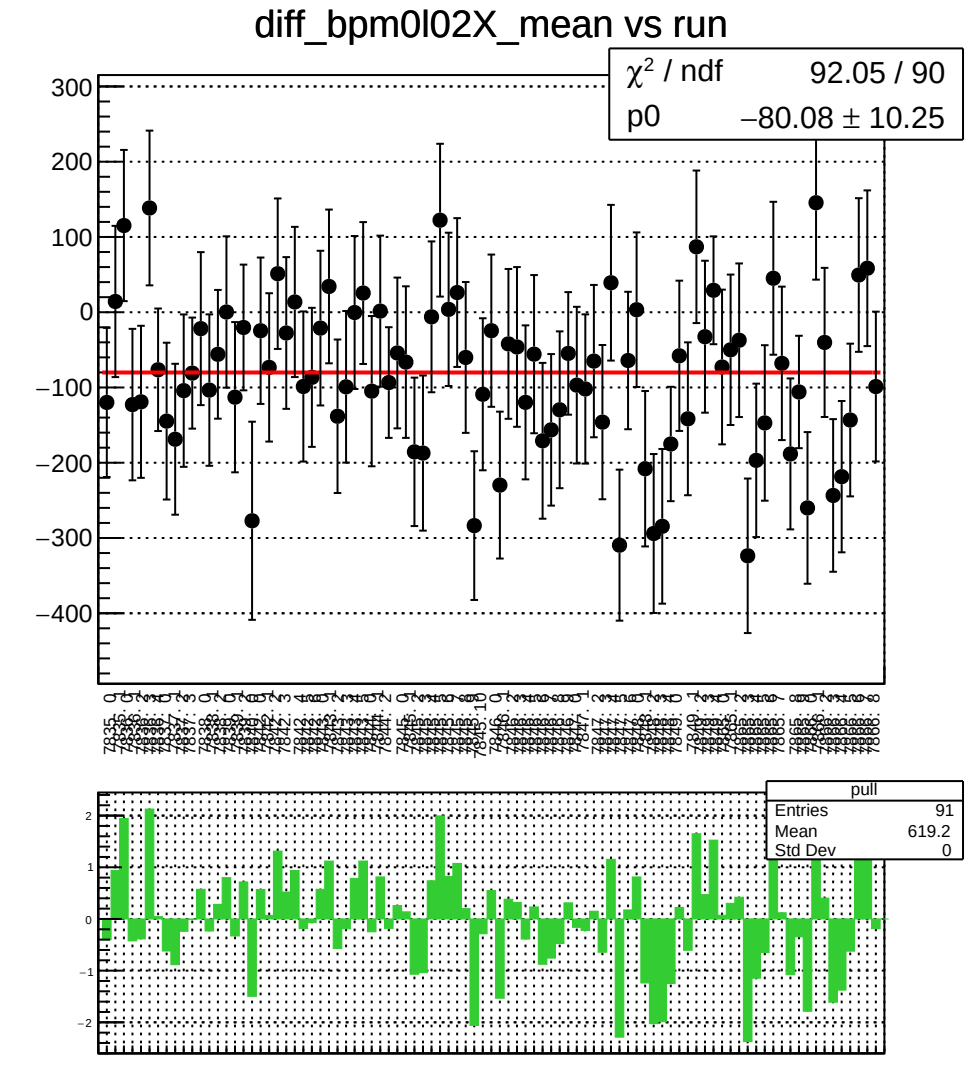

pull1D
Entries 91
Mean −0.01005
Std Dev 1.076

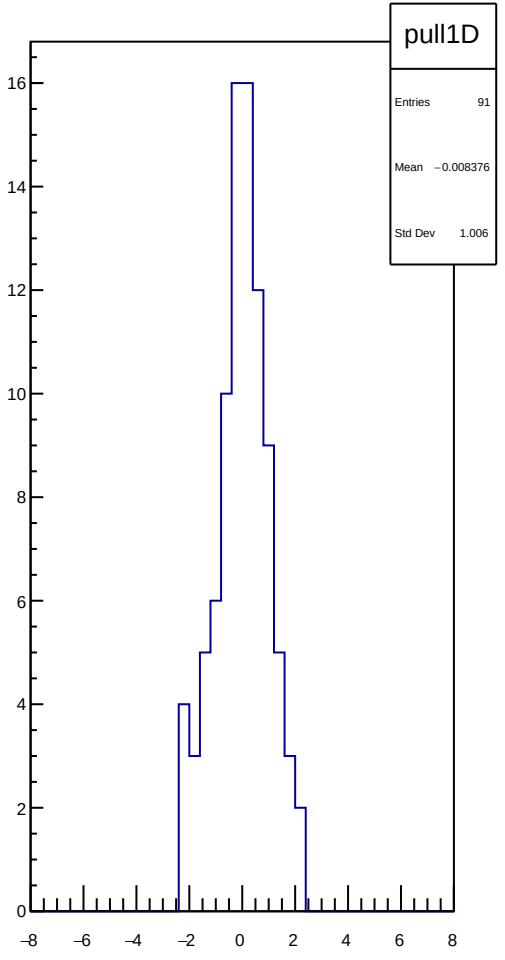

diff_bpm0l01X_rms vs run
χ² / ndf 158.7 / 90
p0 3100 ± 2.34
3200
3150
3100
3050
3000

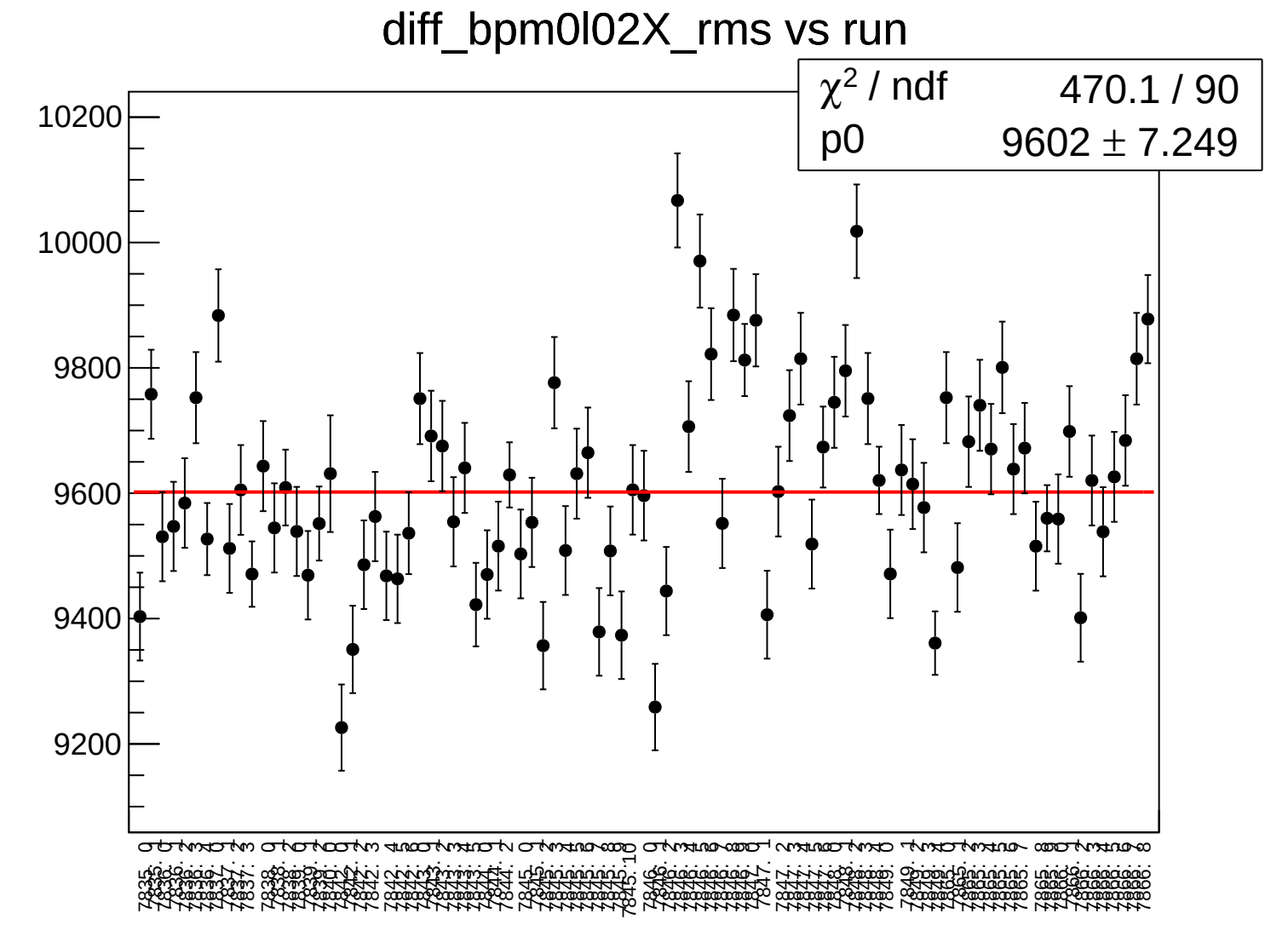

diff_bpm0l01Y_mean vs run
χ² / ndf 320.1 / 90
p0 24.23 ± 2.292
150
100
50
0
−50
−100
pull
Entries 91
Mean −1254
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

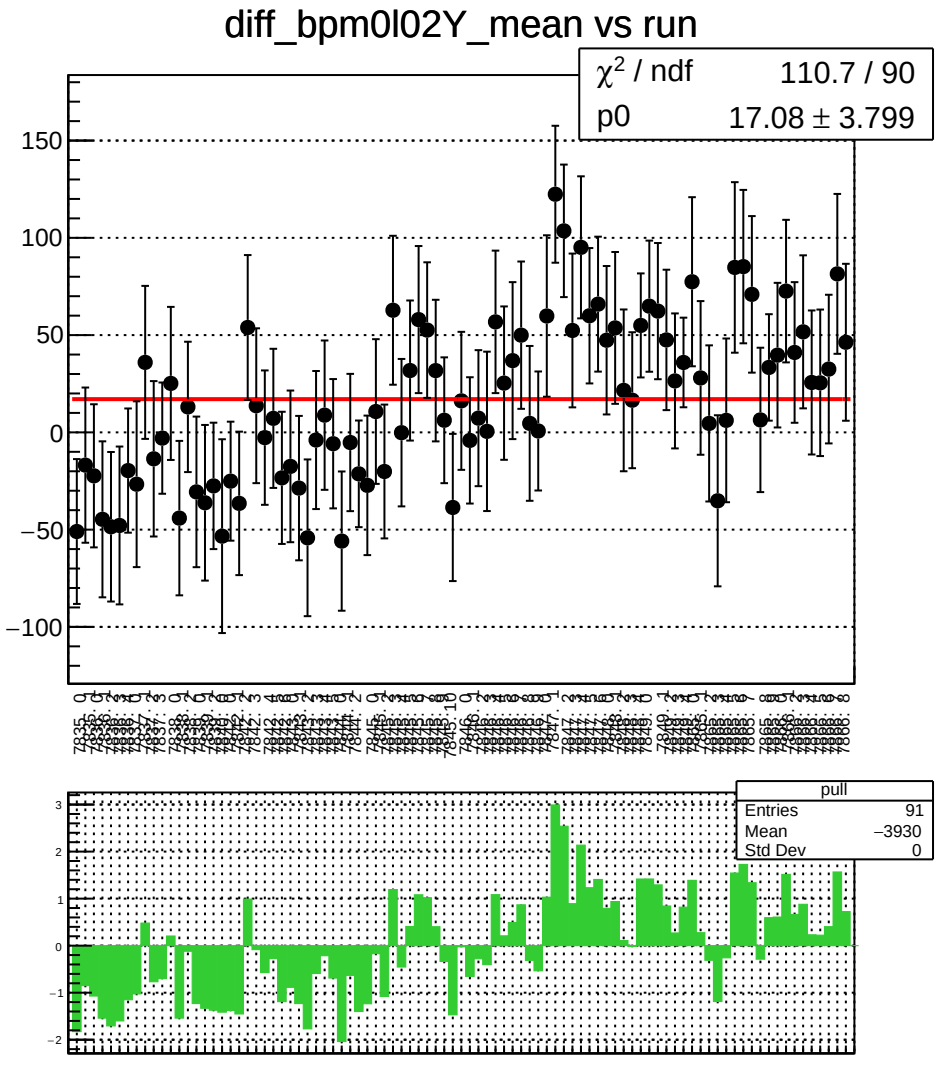

pull1D
Entries 91
Mean −0.02723
Std Dev 1.875
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

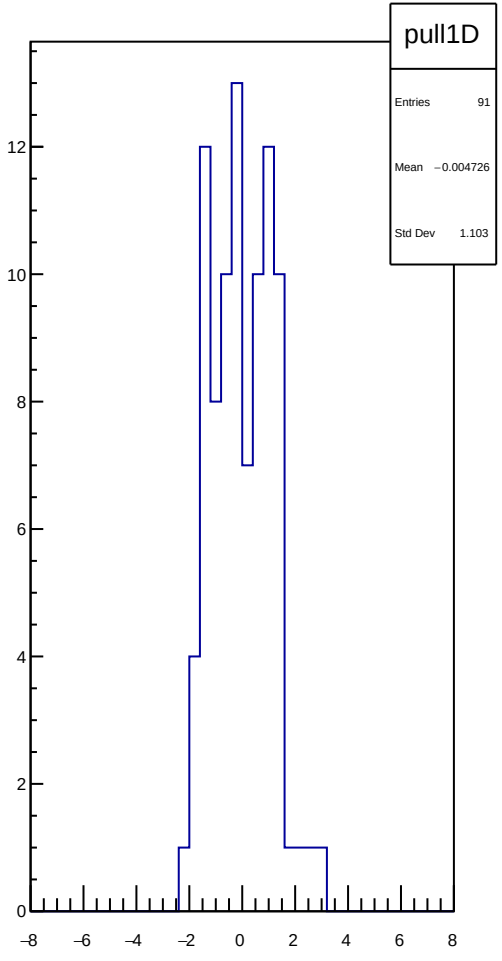

diff_bpm0l01Y_rms vs run
χ² / ndf 2268 / 90
p0 2146 ± 1.621
2400
2350
2300
2250
2200
2150
2100
2050
2000

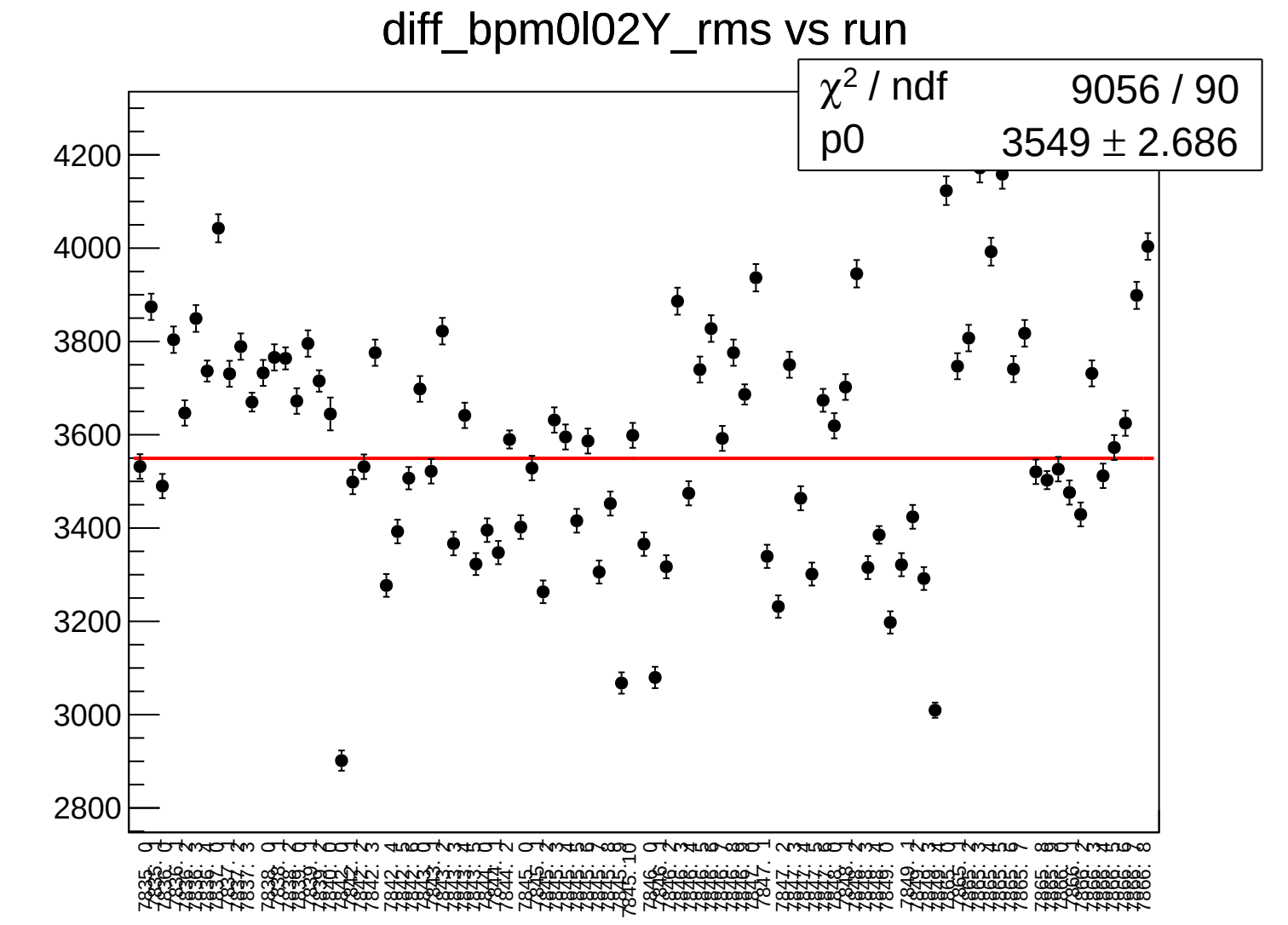

diff_bpm0l02X_mean vs run
χ² / ndf 92.05 / 90
p0 −80.08 ± 10.25
pull
Entries 91
Mean 619.2
Std Dev 0

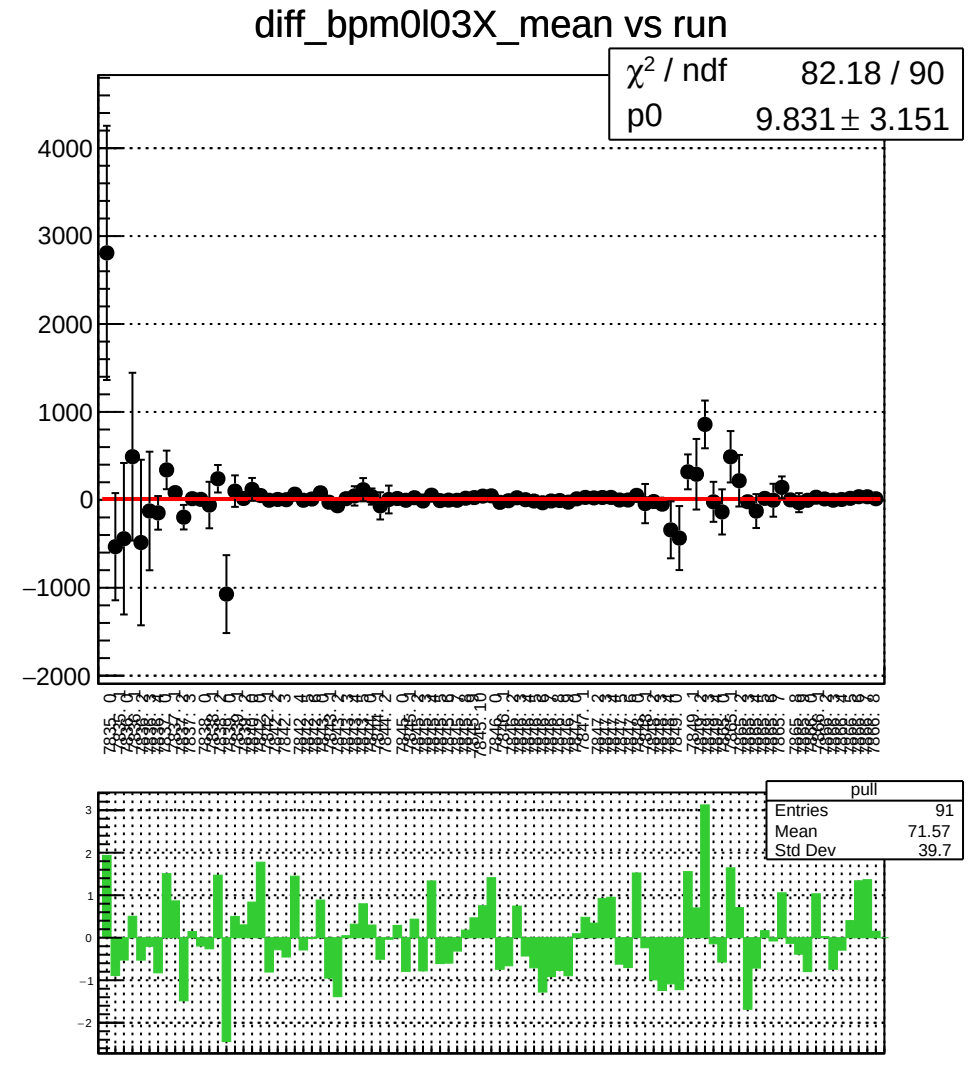

pull1D
Entries 91
Mean −0.008376
Std Dev 1.006

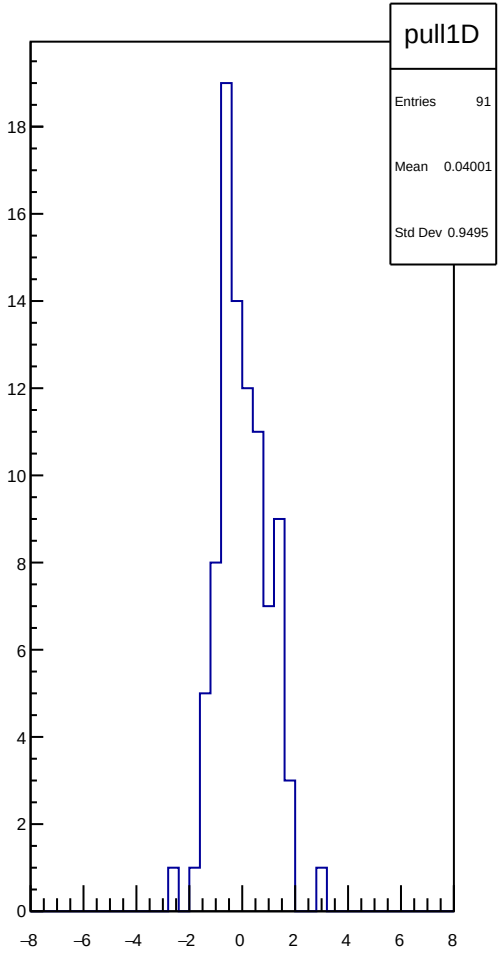

diff_bpm0l02X_rms vs run
χ^2 / ndf 470.1 / 90
p0 9602 ± 7.249
10200
10000
9800
9600
9400
9200

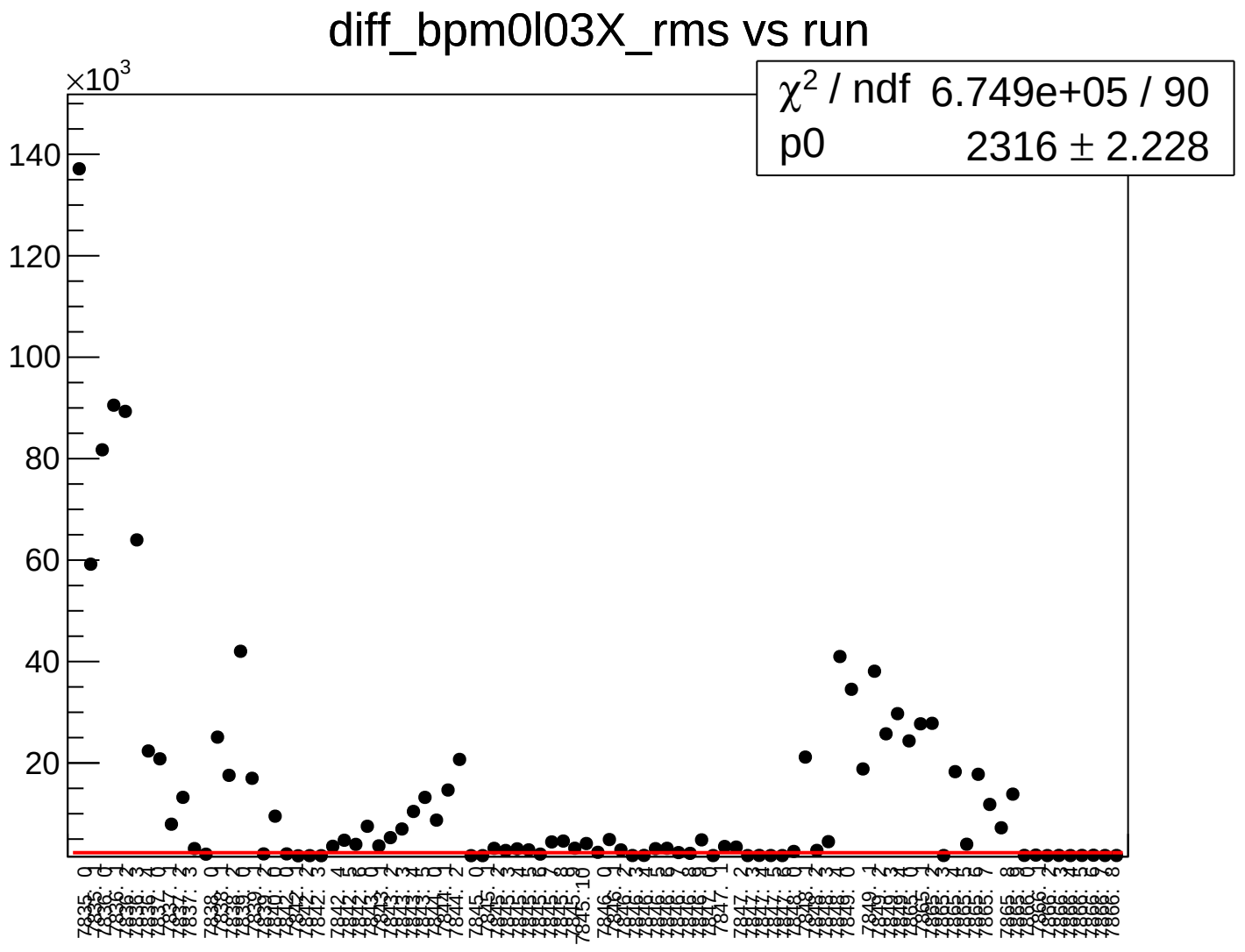

diff_bpm0l02Y_mean vs run
χ^2 / ndf 110.7 / 90
p0 17.08 ± 3.799
150
100
50
0
−50
−100
pull
Entries 91
Mean −3930
Std Dev 0
3
2
1
0
−1
−2

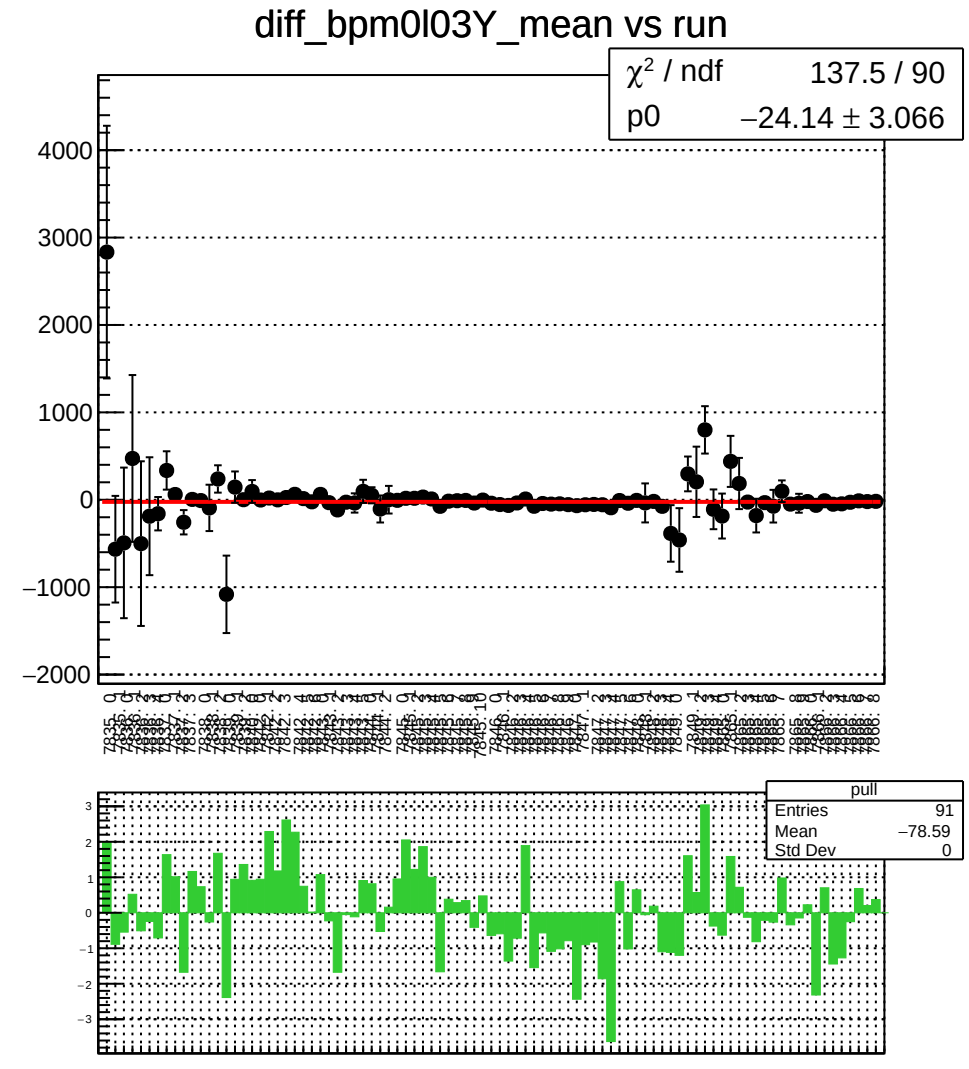

pull1D
Entries 91
Mean −0.004726
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

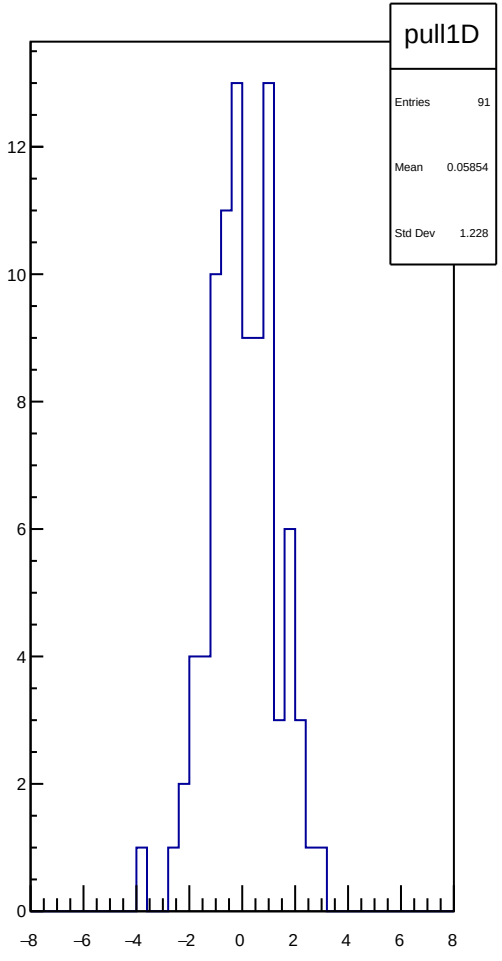

diff_bpm0l02Y_rms vs run
χ² / ndf 9056 / 90
p0 3549 ± 2.686
4200
4000
3800
3600
3400
3200
3000
2800

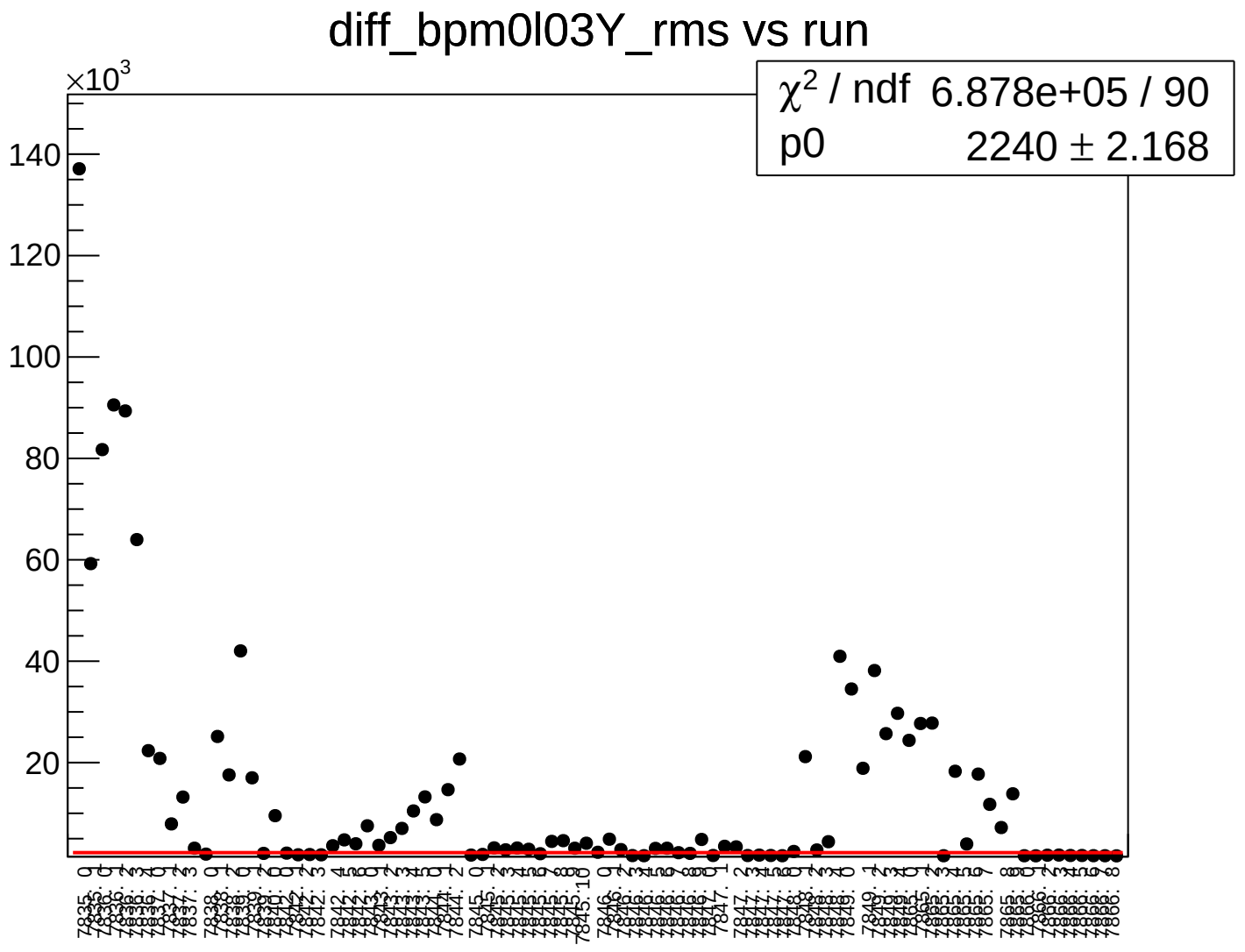

diff_bpm0l03X_mean vs run
χ² / ndf 82.18 / 90
p0 9.831 ± 3.151
pull
Entries 91
Mean 71.57
Std Dev 39.7

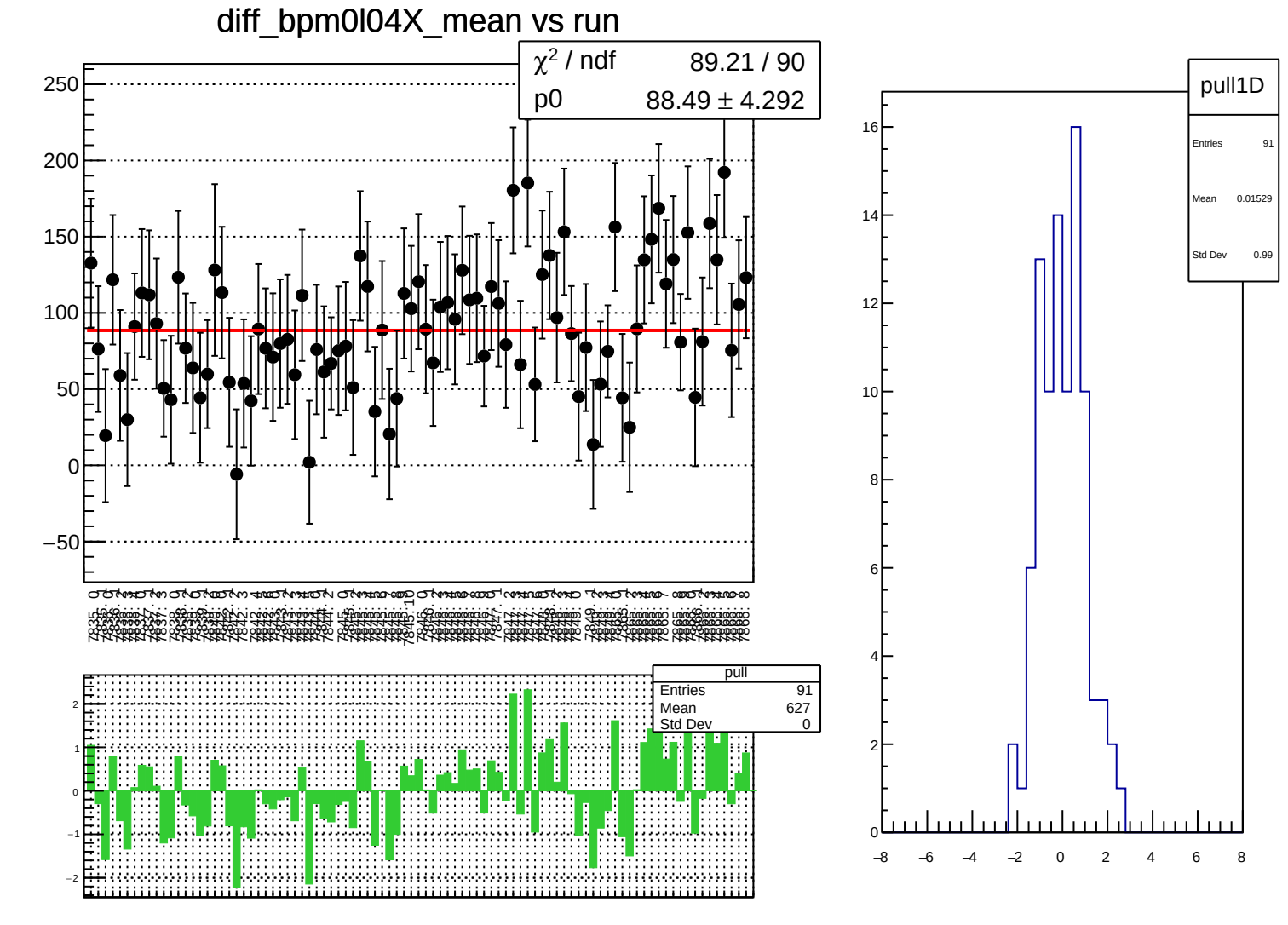

pull1D
Entries 91
Mean 0.04001
Std Dev 0.9495

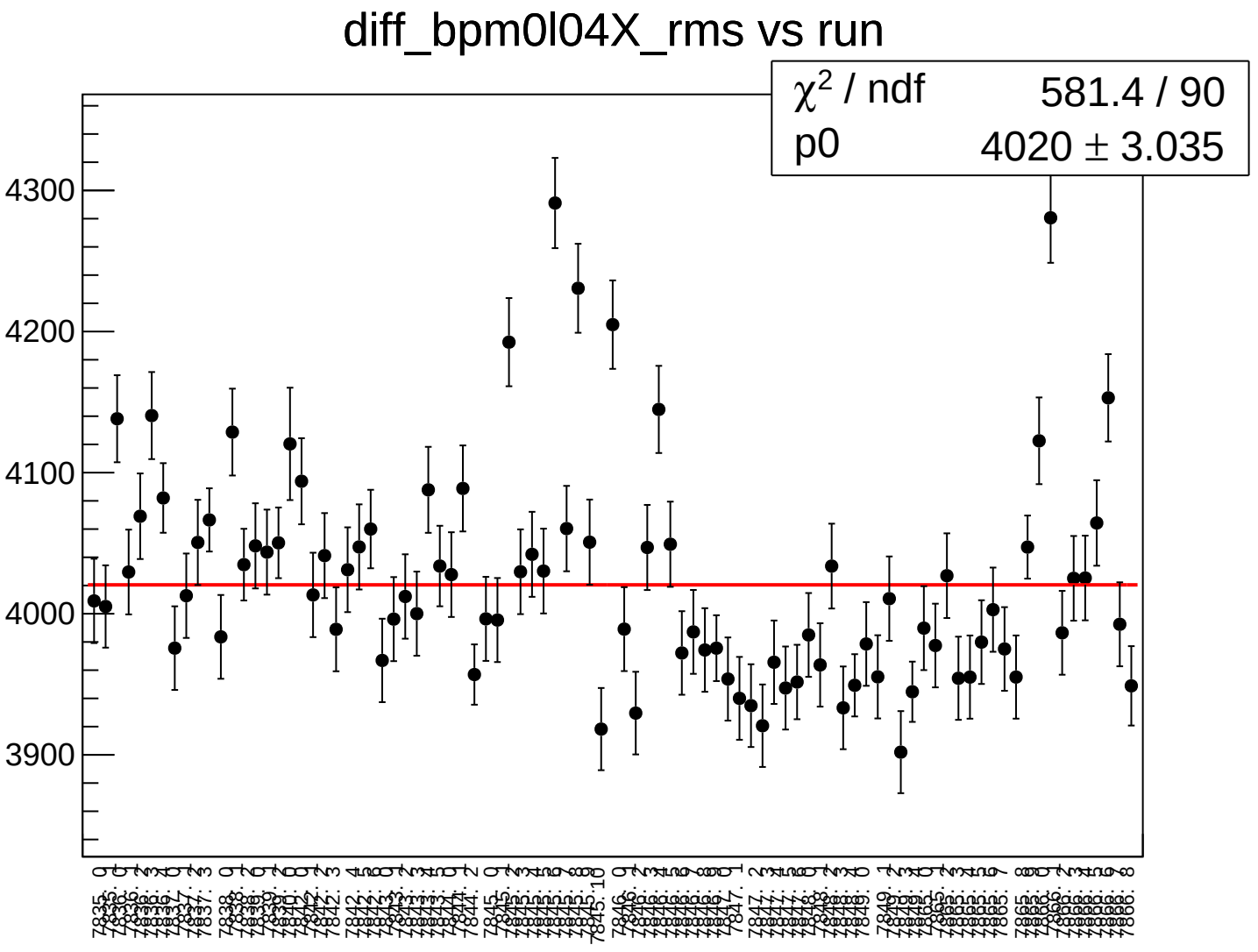

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 6.749e+05 / 90
p0 2316 ± 2.228
140
120
100
80
60
40
20

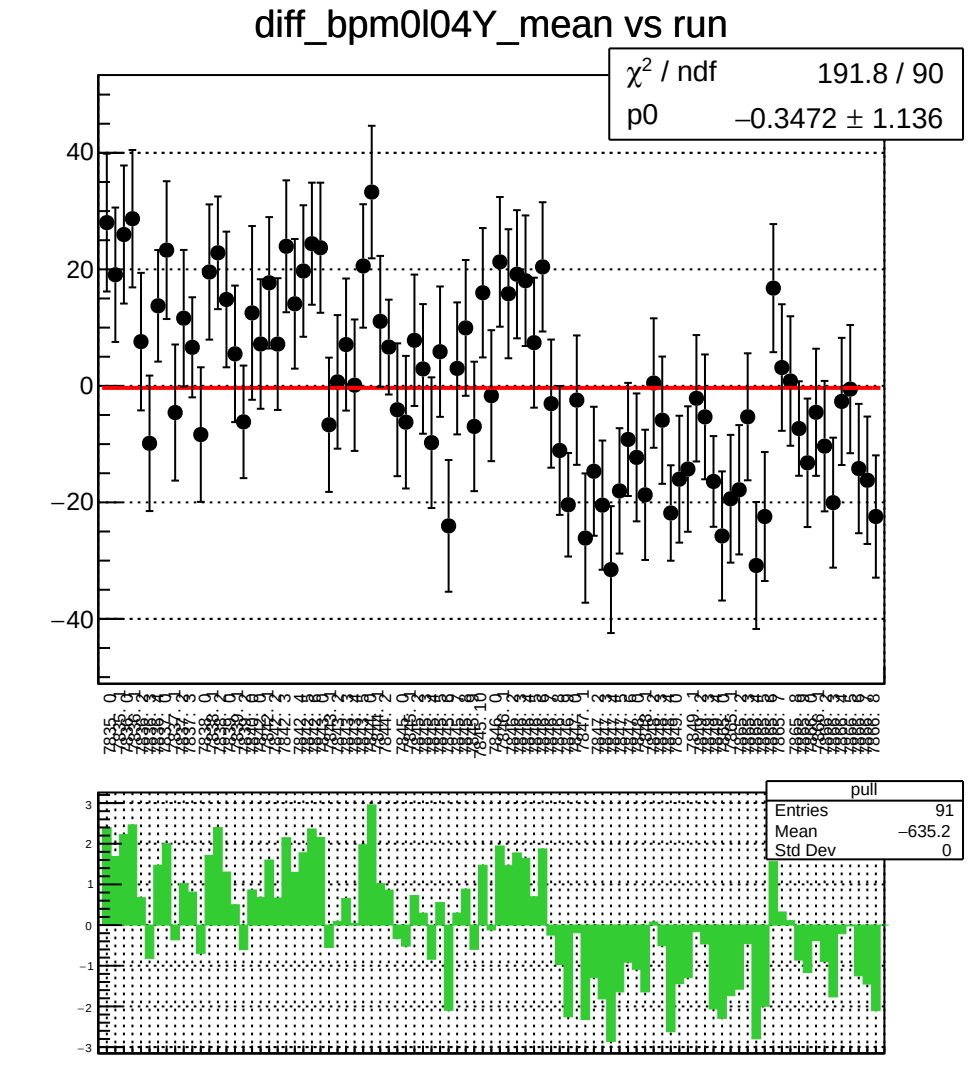

diff_bpm0l03Y_mean vs run
χ² / ndf 137.5 / 90
p0 −24.14 ± 3.066
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −78.59
Std Dev 0
3
2
1
0
−1
−2
−3

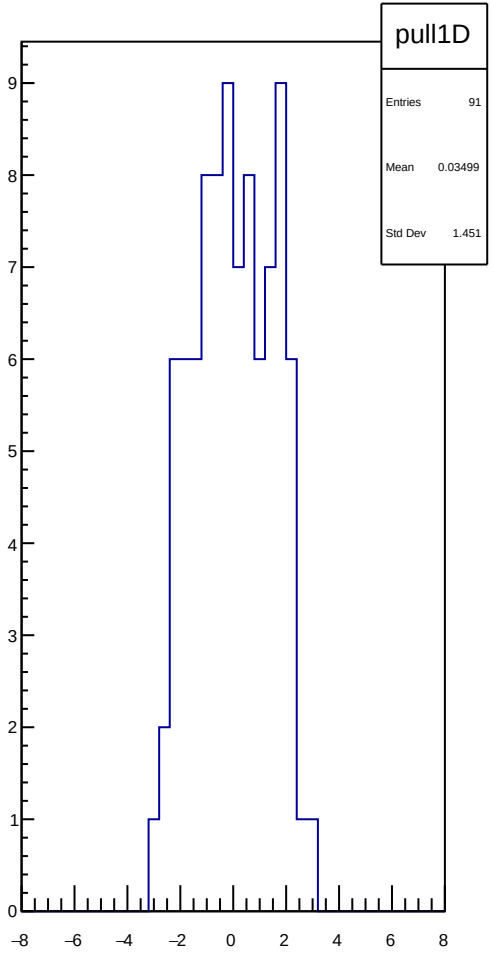

pull1D
Entries 91
Mean 0.05854
Std Dev 1.228
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

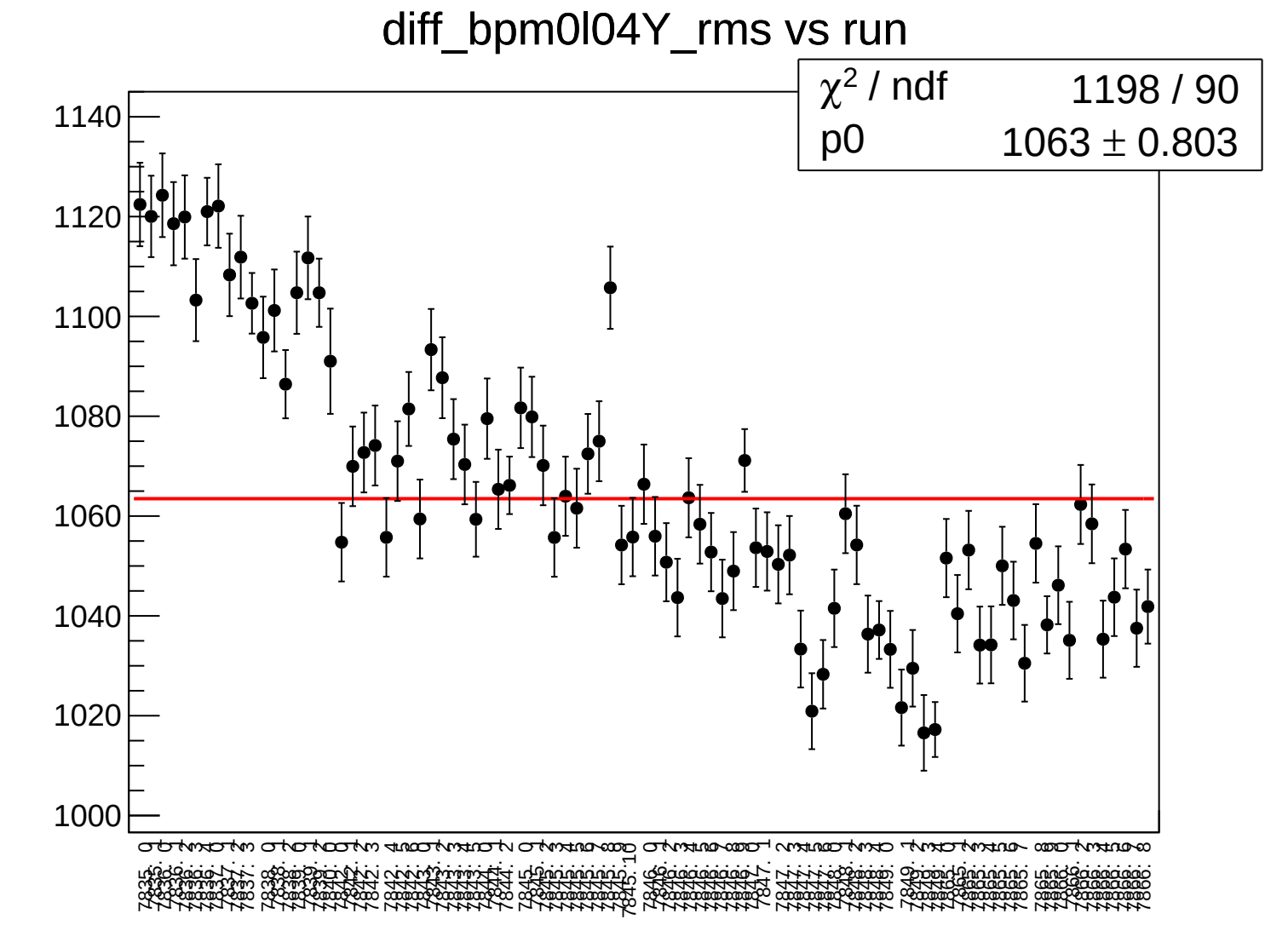

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 6.878e+05 / 90
p0 2240 ± 2.168
140
120
100
80
60
40
20

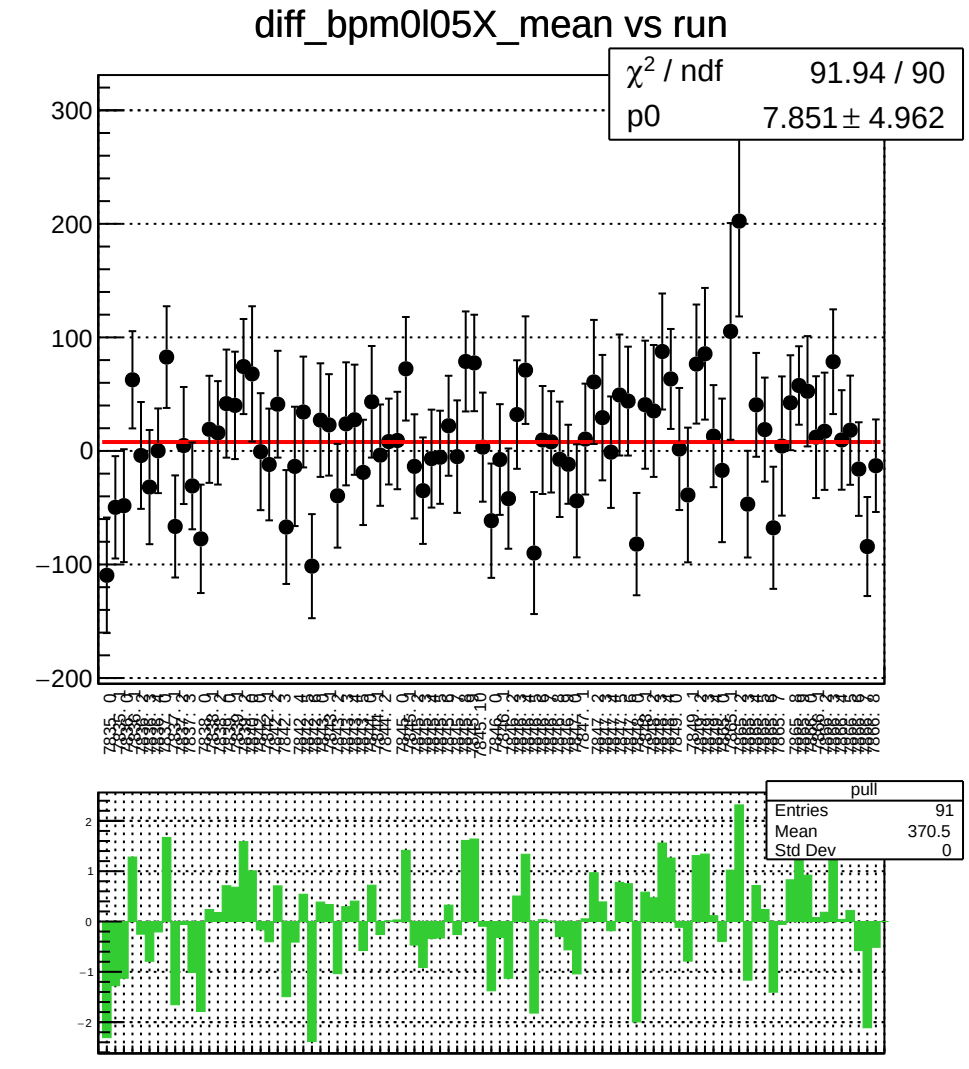

diff_bpm0l04X_mean vs run
χ^2 / ndf 89.21 / 90
p0 88.49 ± 4.292
pull
Entries 91
Mean 627
Std Dev 0
pull1D
Entries 91
Mean 0.01529
Std Dev 0.99

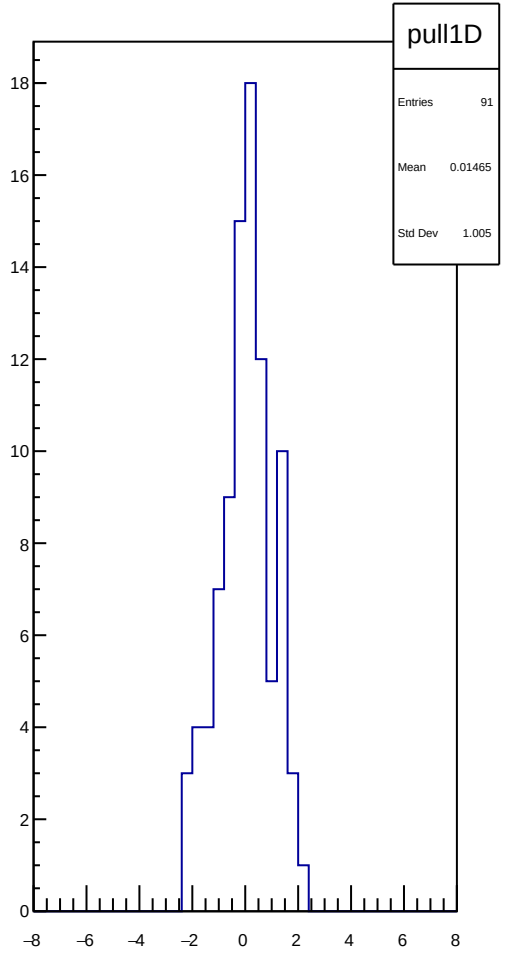

diff_bpm0l04X_rms vs run
χ² / ndf 581.4 / 90
p0 4020 ± 3.035
4300
4200
4100
4000
3900

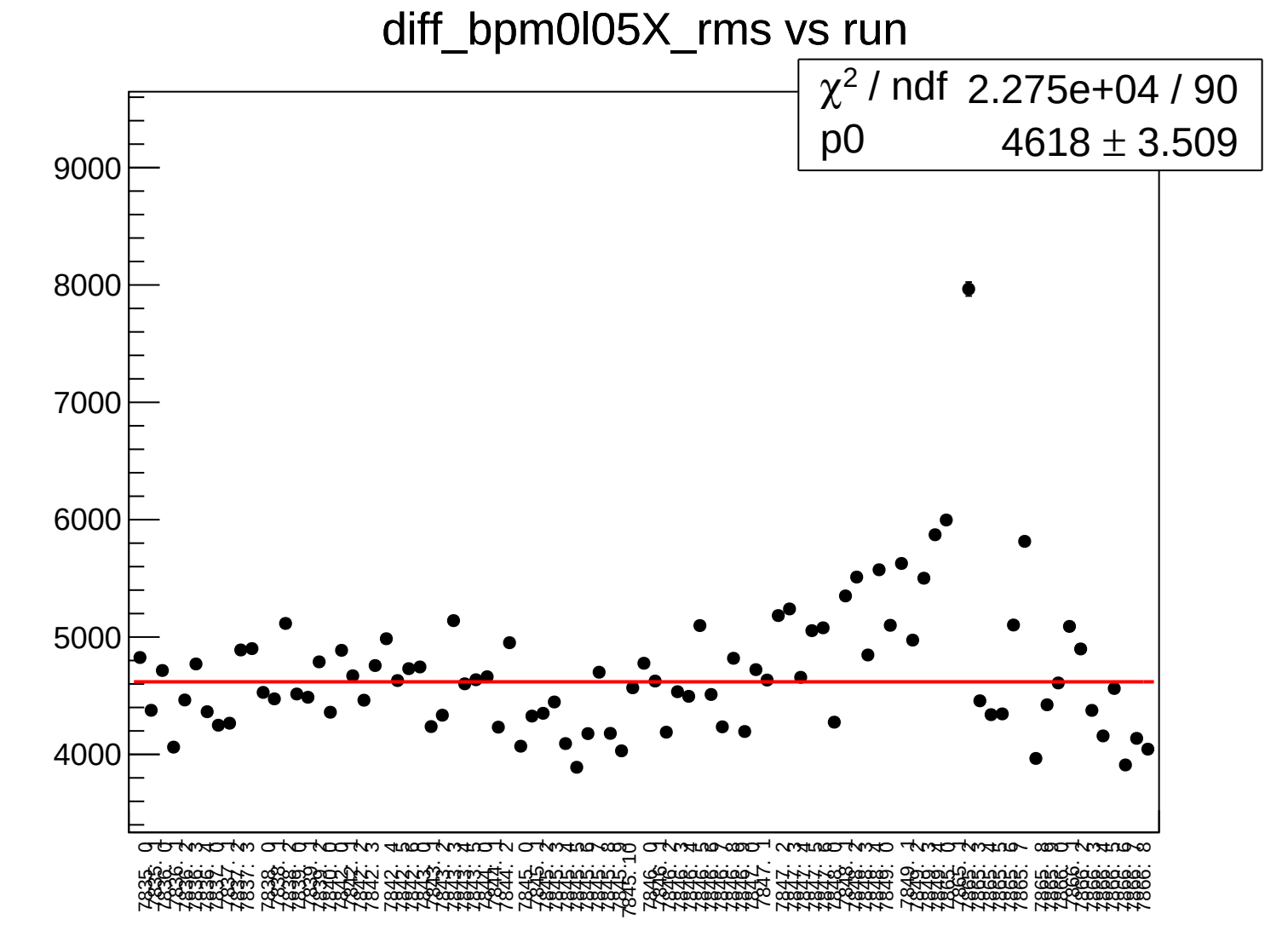

diff_bpm0l04Y_mean vs run
χ² / ndf 191.8 / 90
p0 −0.3472 ± 1.136
pull
Entries 91
Mean −635.2
Std Dev 0

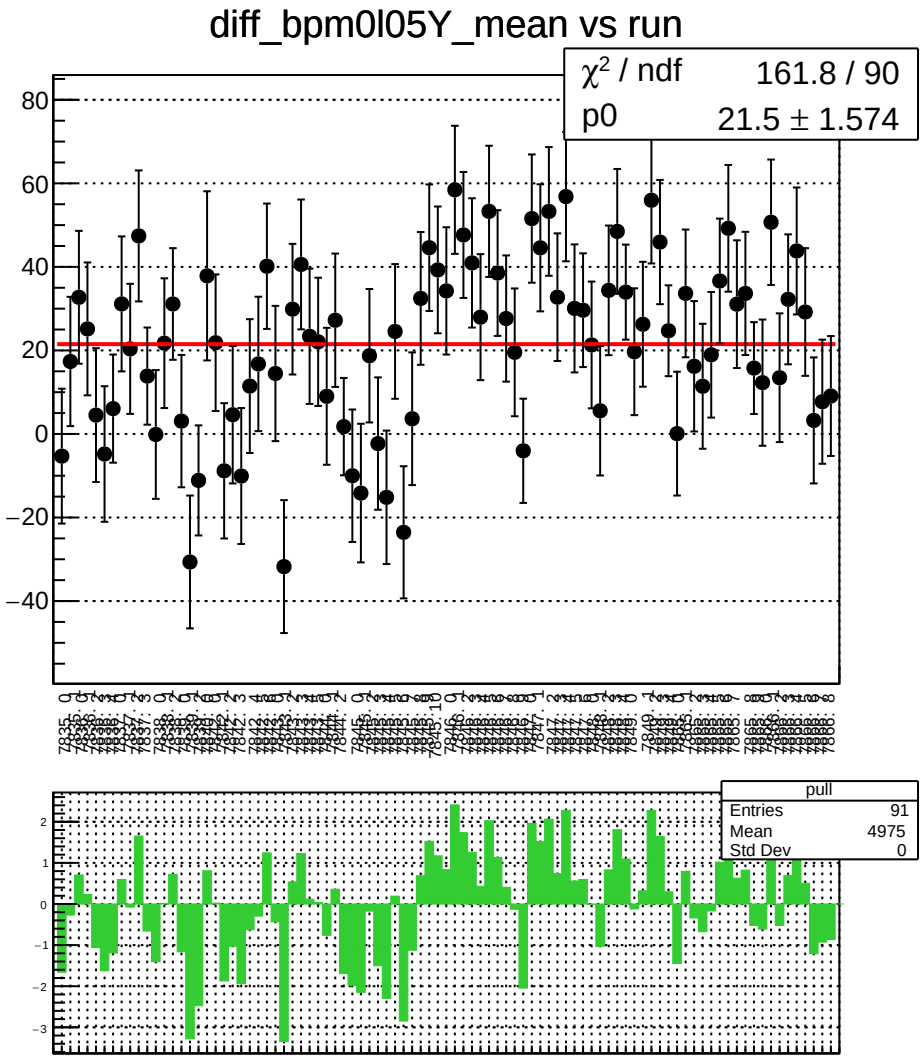

pull1D
Entries 91
Mean 0.03499
Std Dev 1.451

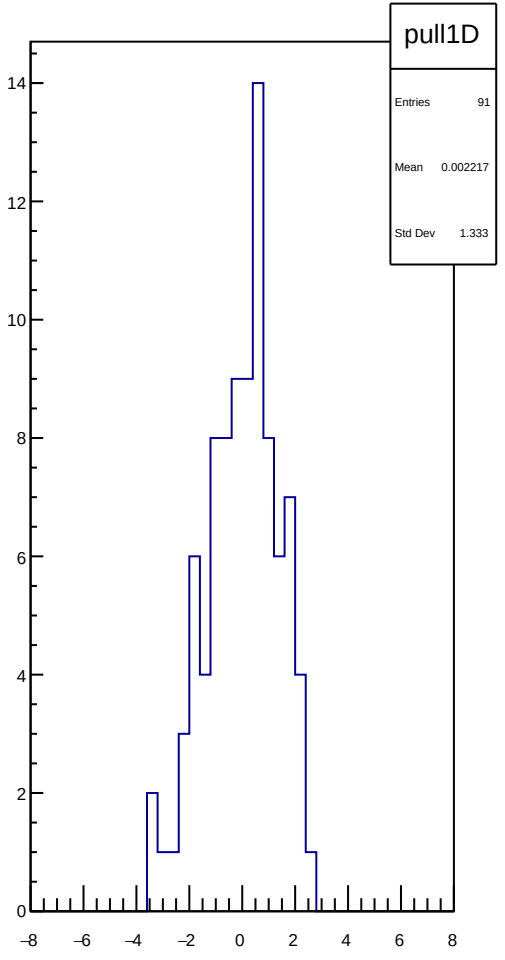

diff_bpm0l04Y_rms vs run
χ² / ndf 1198 / 90
p0 1063 ± 0.803
1140
1120
1100
1080
1060
1040
1020
1000

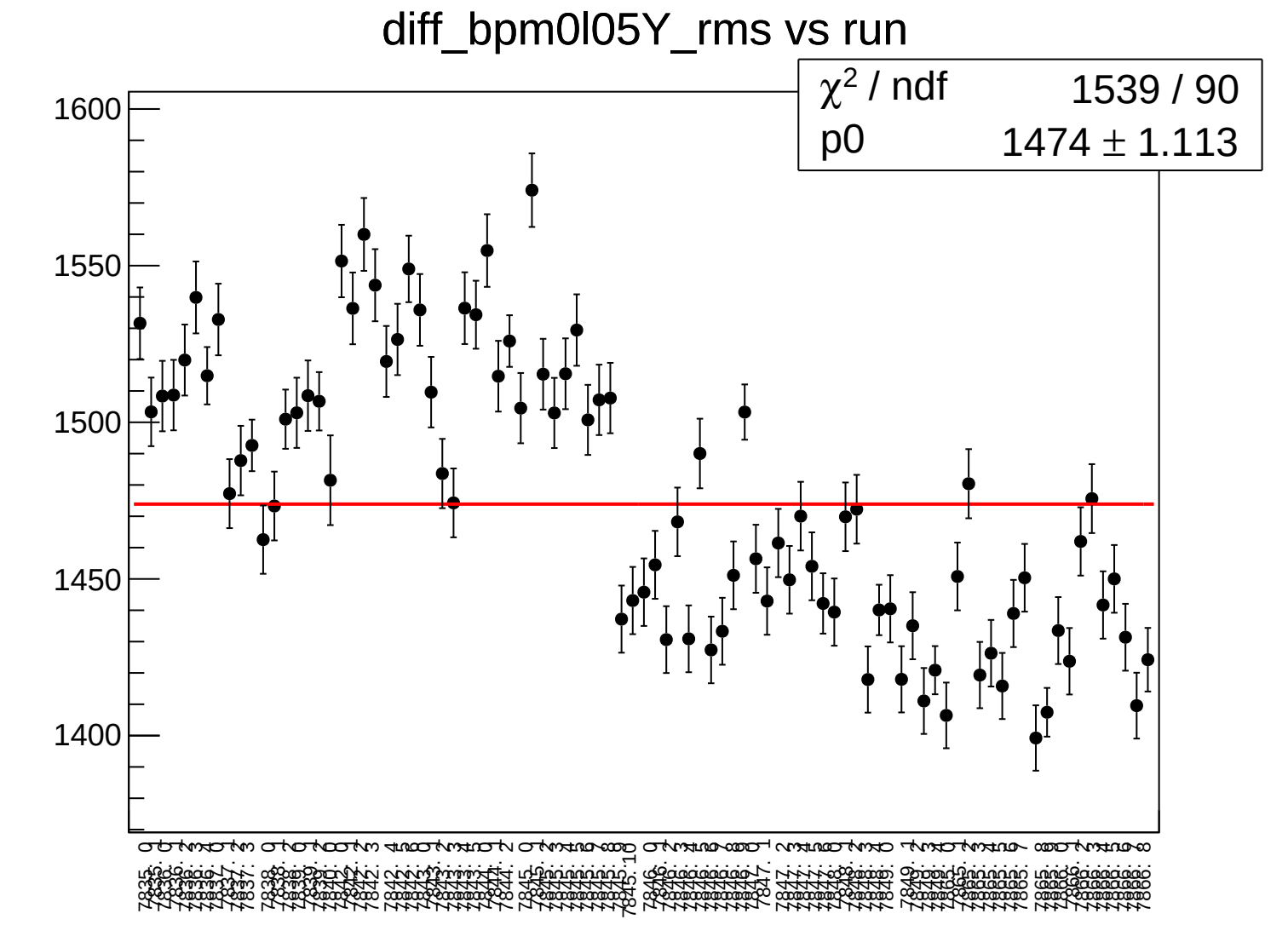

diff_bpm0l05X_mean vs run
χ² / ndf 91.94 / 90
p0 7.851 ± 4.962
pull
Entries 91
Mean 370.5
Std Dev 0

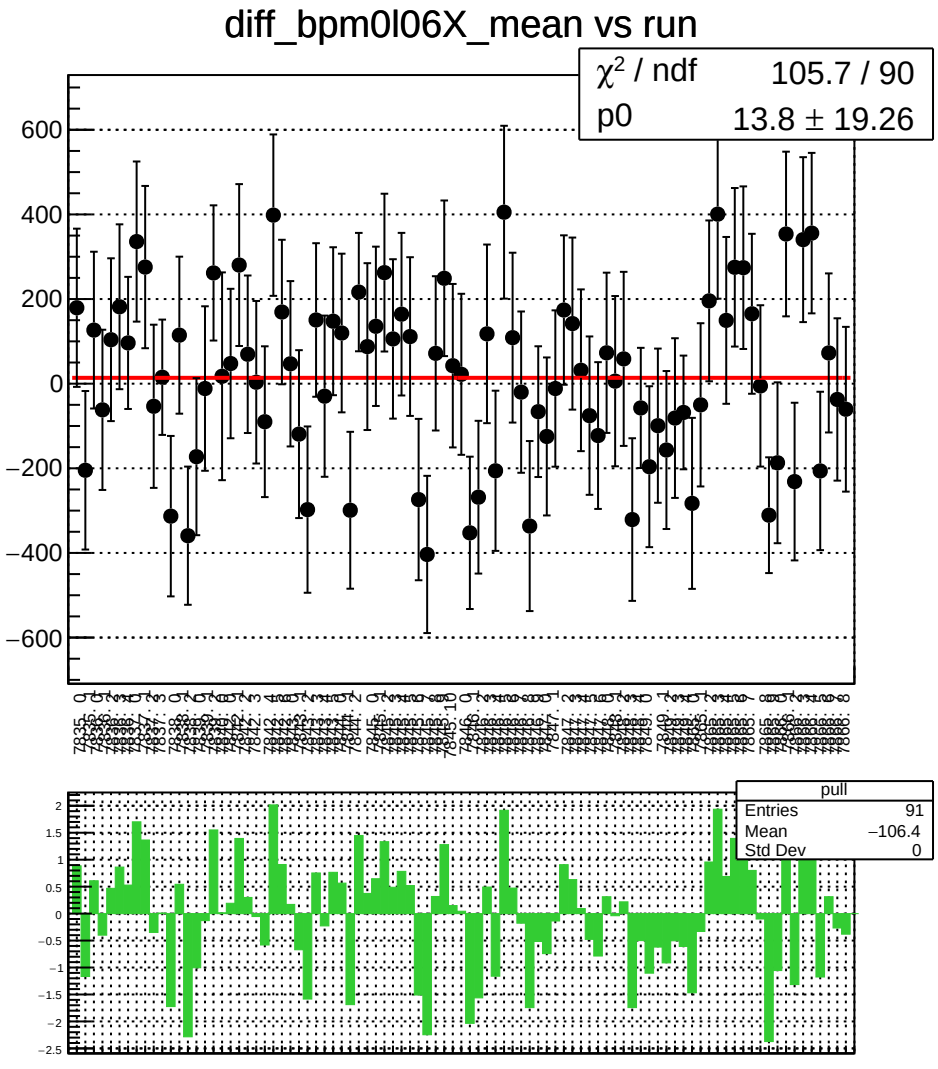

pull1D
Entries 91
Mean 0.01465
Std Dev 1.005

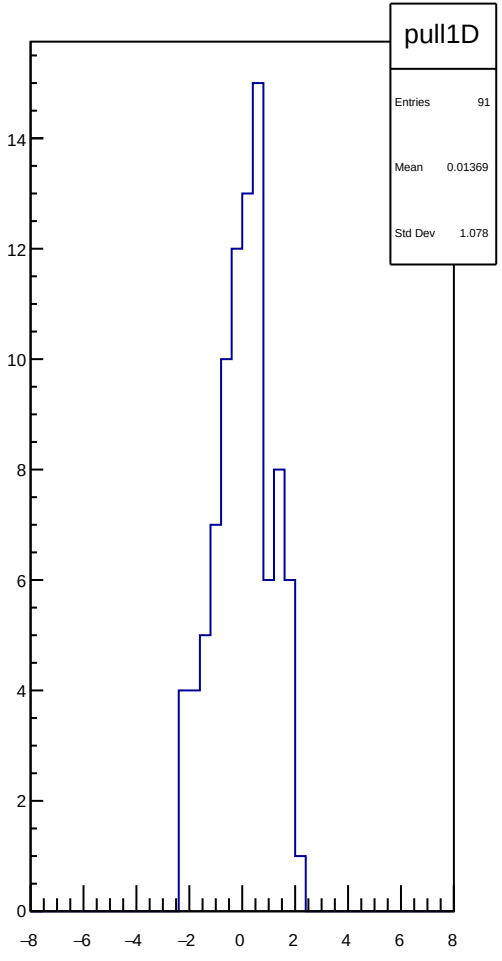

diff_bpm0l05X_rms vs run
χ^2 / ndf 2.275e+04 / 90
p0 4618 ± 3.509
9000
8000
7000
6000
5000
4000

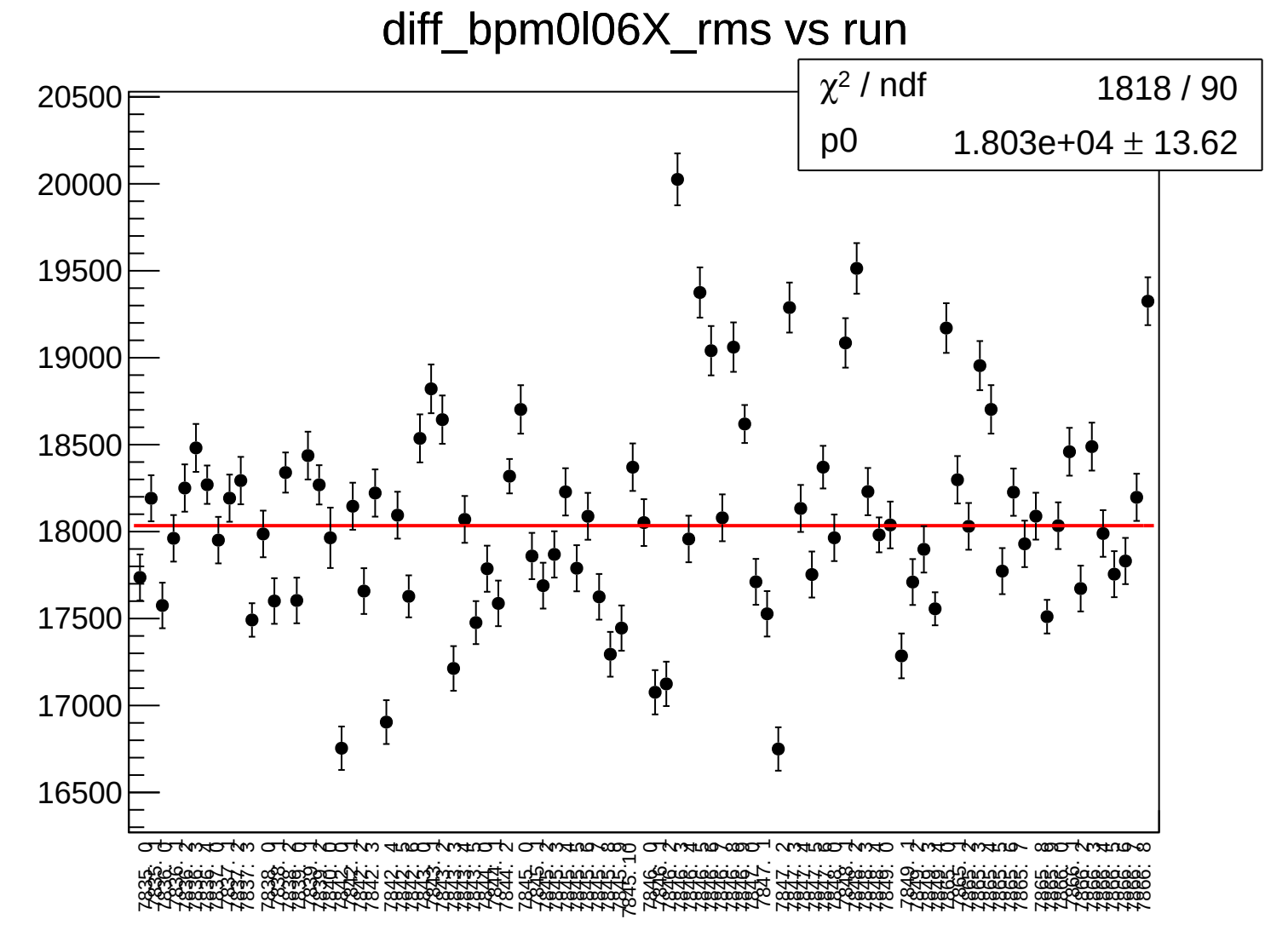

diff_bpm0l05Y_mean vs run
χ² / ndf 161.8 / 90
p0 21.5 ± 1.574
pull
Entries 91
Mean 4975
Std Dev 0

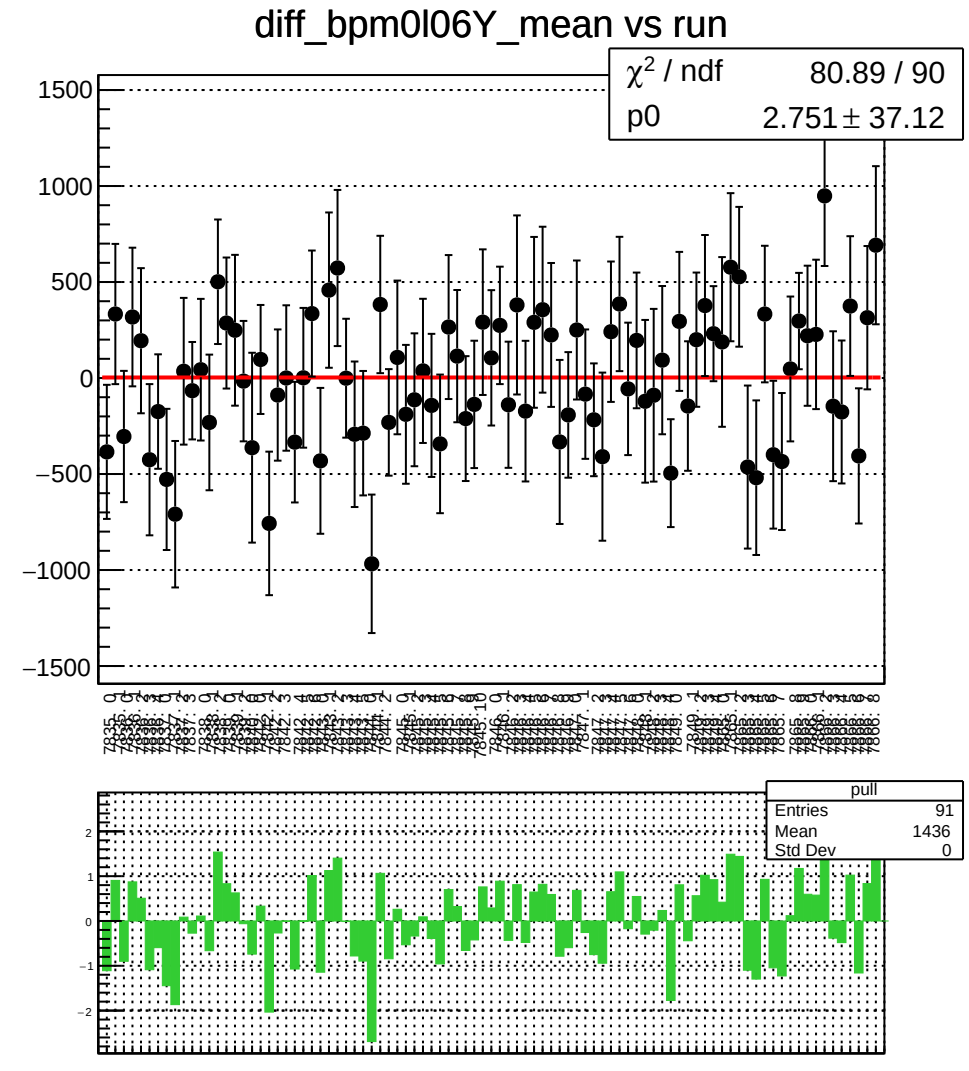

pull1D
Entries 91
Mean 0.002217
Std Dev 1.333

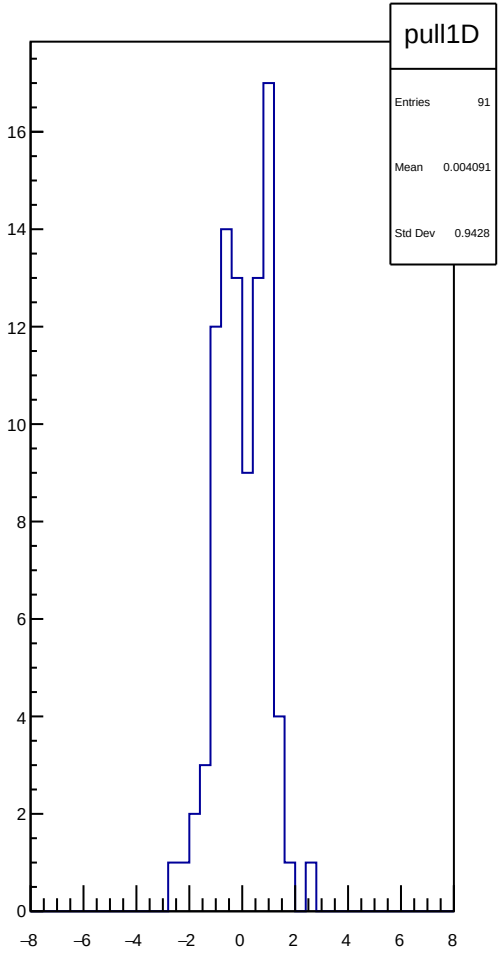

diff_bpm0l05Y_rms vs run
χ² / ndf 1539 / 90
p0 1474 ± 1.113
1600
1550
1500
1450
1400

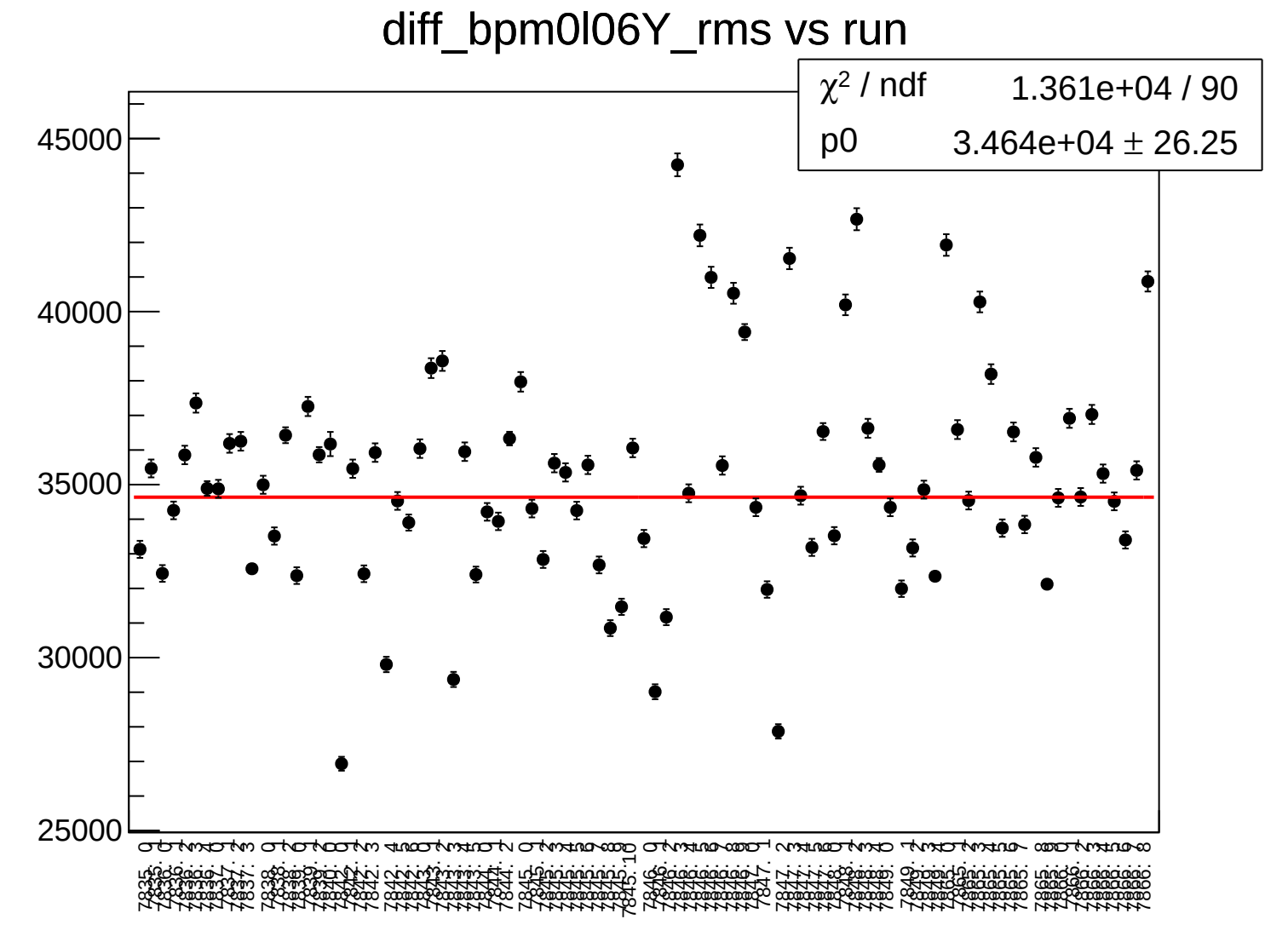

diff_bpm0l06X_mean vs run
χ² / ndf 105.7 / 90
p0 13.8 ± 19.26
pull
Entries 91
Mean −106.4
Std Dev 0

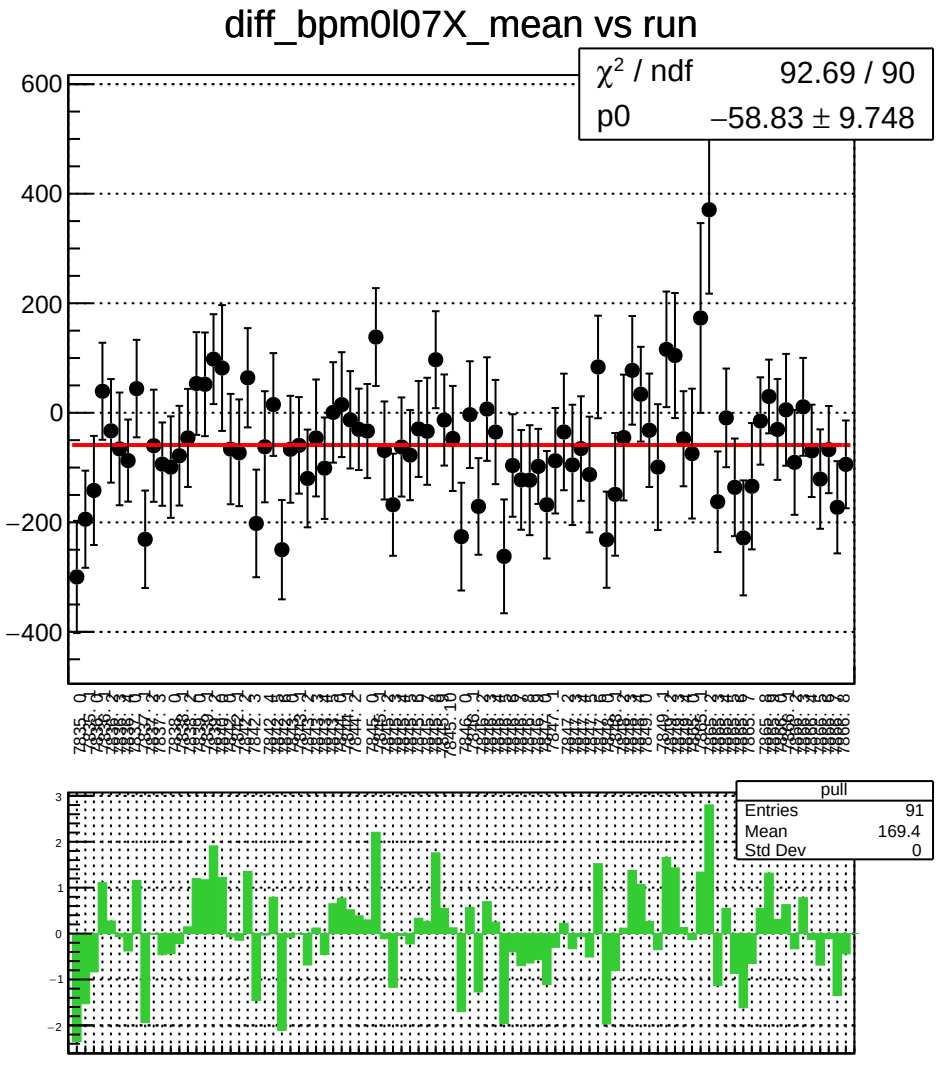

pull1D
Entries 91
Mean 0.01369
Std Dev 1.078

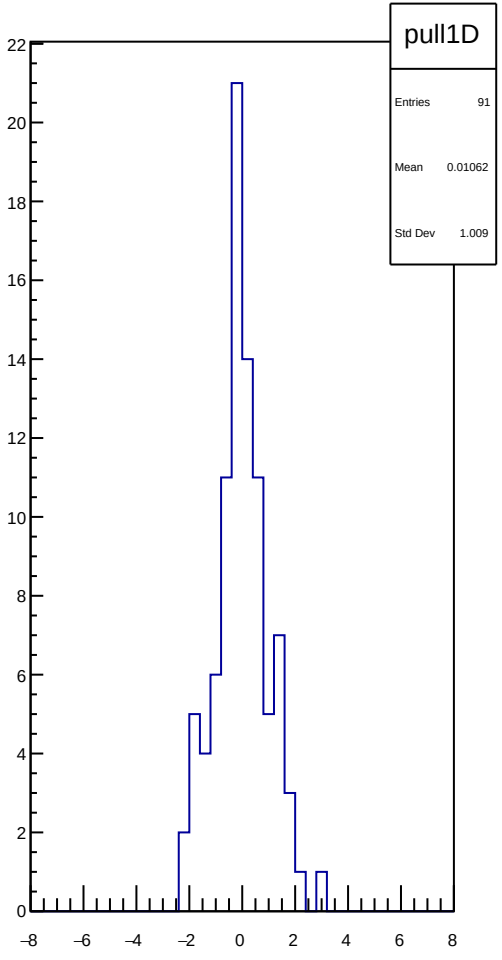

diff_bpm0l06X_rms vs run
χ² / ndf 1818 / 90
p0 1.803e+04 ± 13.62
20500
20000
19500
19000
18500
18000
17500
17000
16500

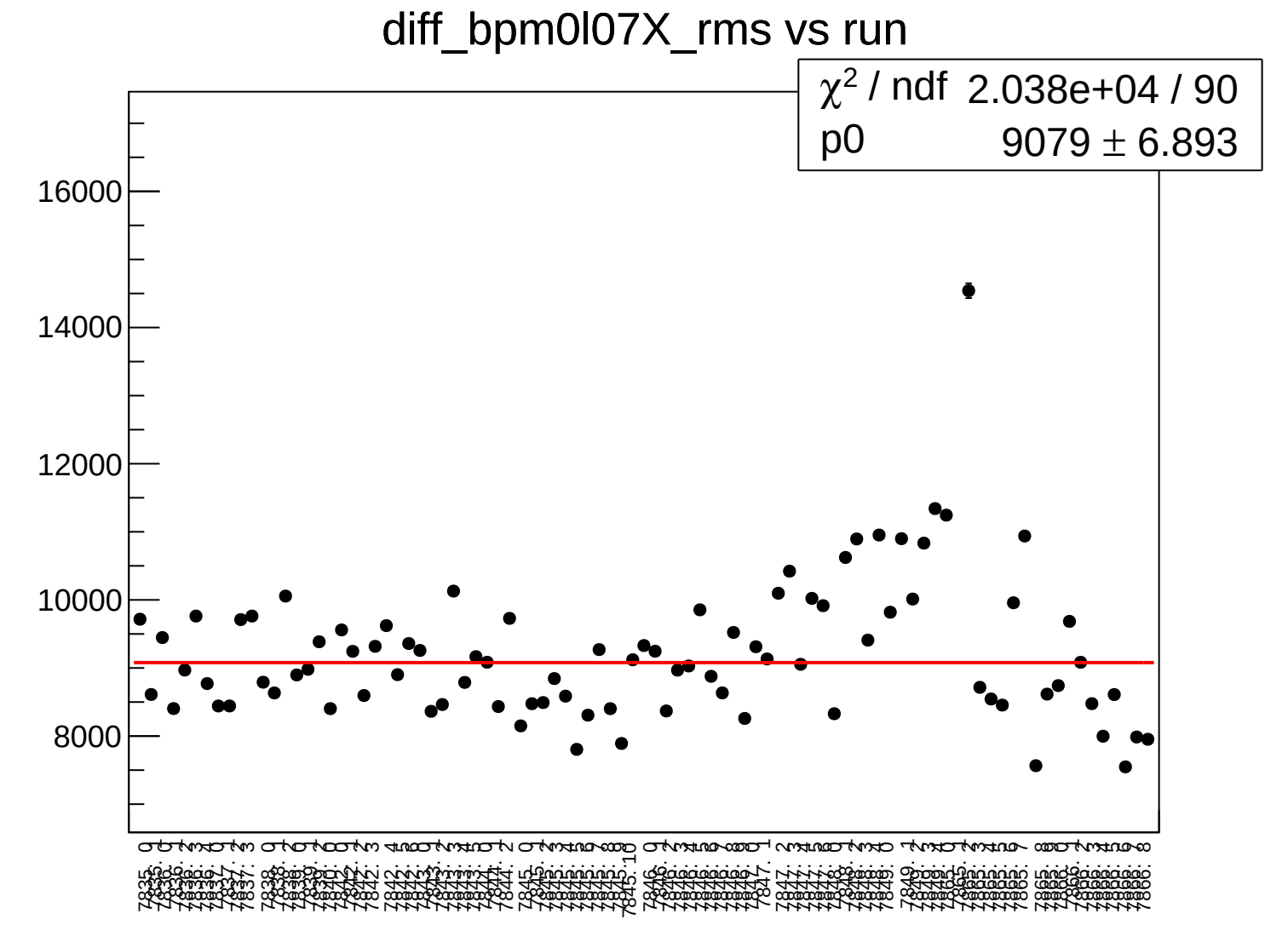

diff_bpm0l06Y_mean vs run
χ² / ndf 80.89 / 90
p0 2.751 ± 37.12
pull
Entries 91
Mean 1436
Std Dev 0

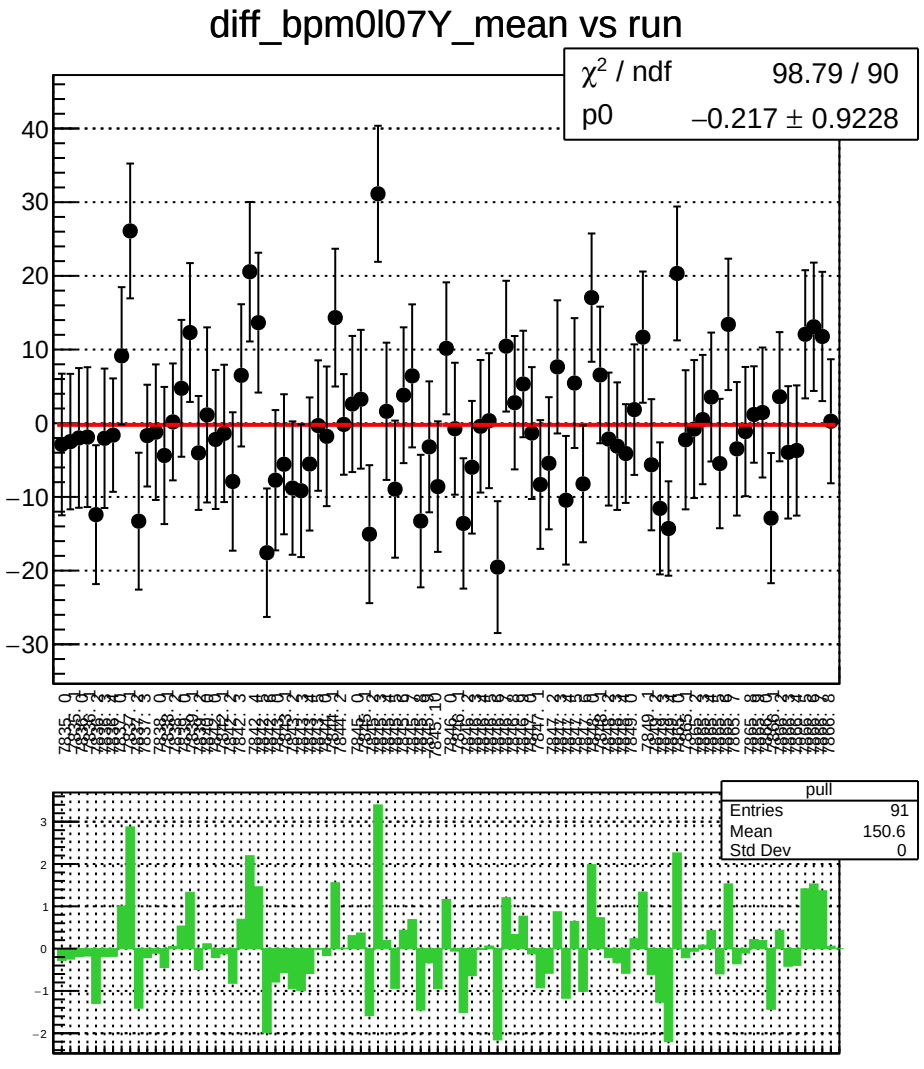

pull1D
Entries 91
Mean 0.004091
Std Dev 0.9428

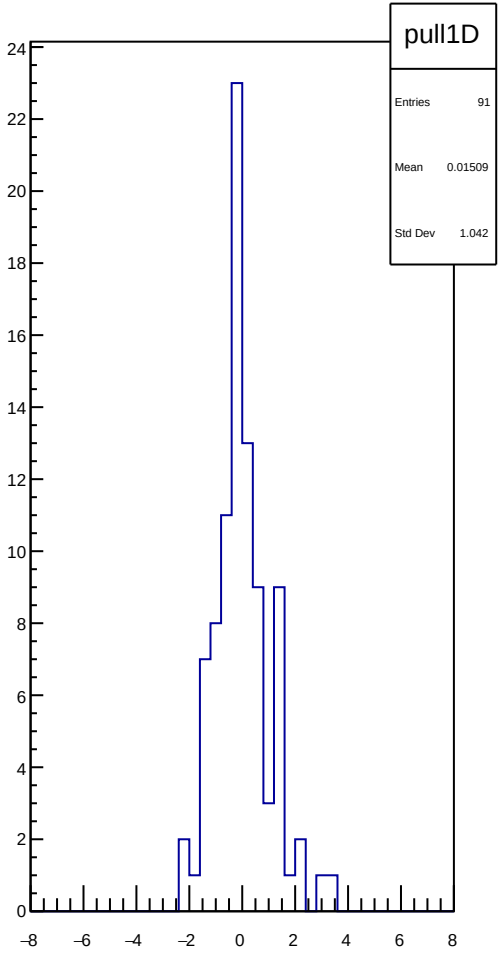

diff_bpm0l06Y_rms vs run
χ² / ndf 1.361e+04 / 90
p0 3.464e+04 ± 26.25
45000
40000
35000
30000
25000

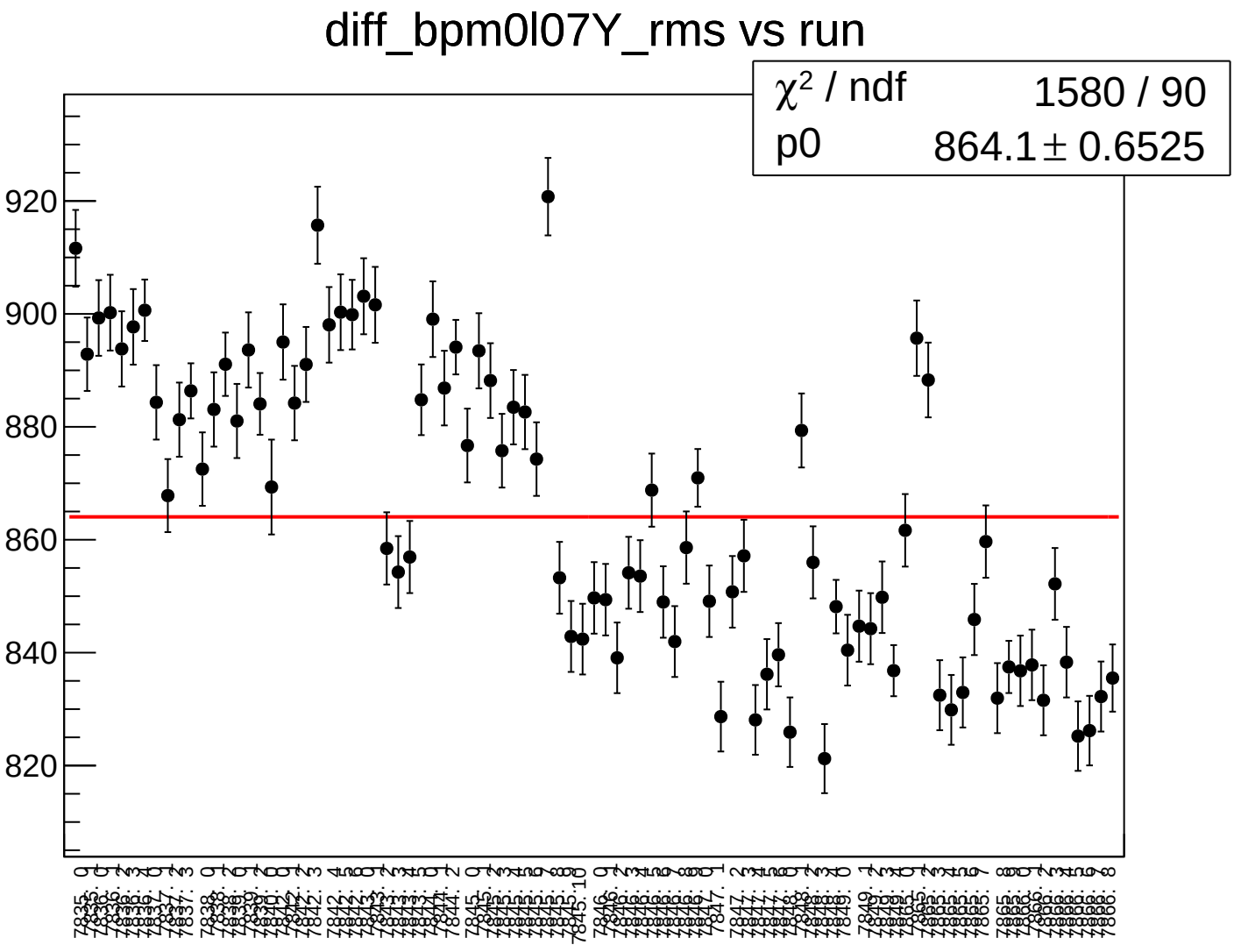

diff_bpm0l07X_mean vs run
χ² / ndf 92.69 / 90
p0 −58.83 ± 9.748
pull
Entries 91
Mean 169.4
Std Dev 0

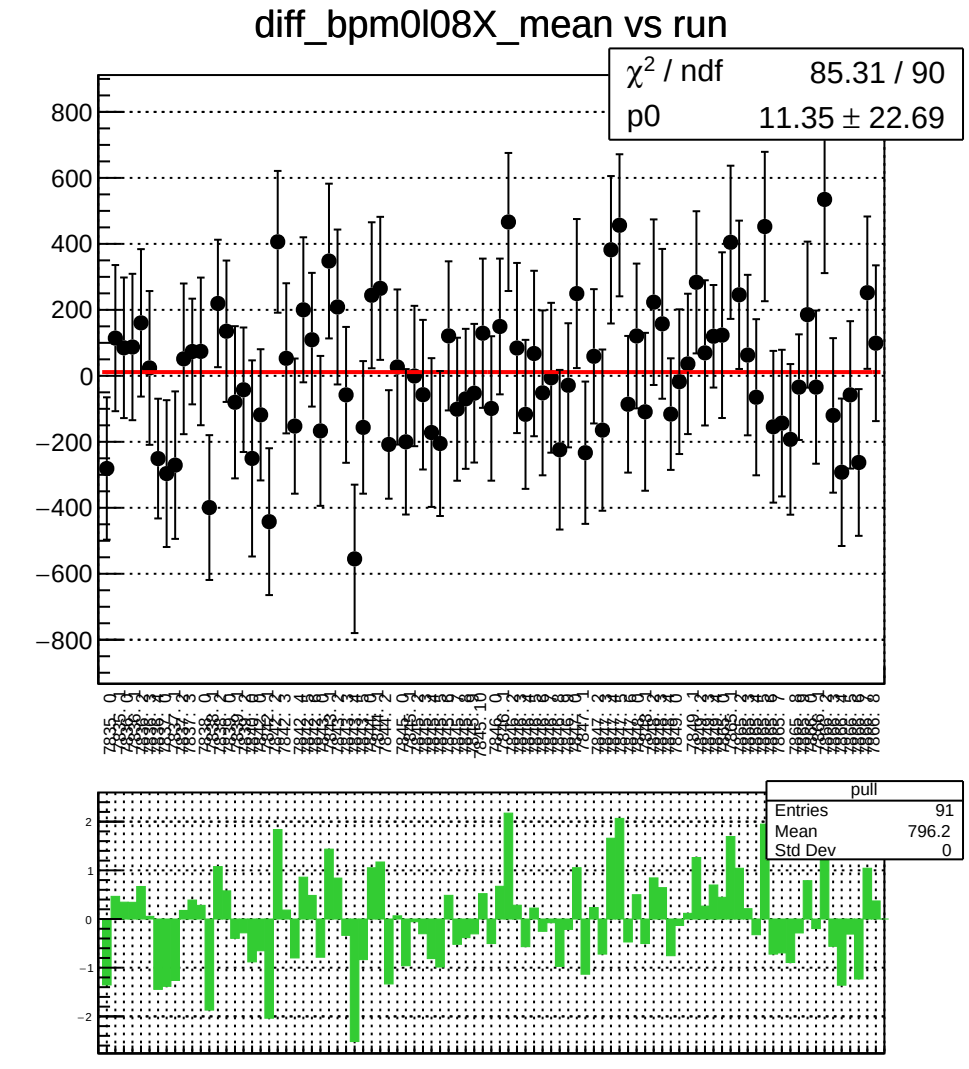

pull1D
Entries 91
Mean 0.01062
Std Dev 1.009

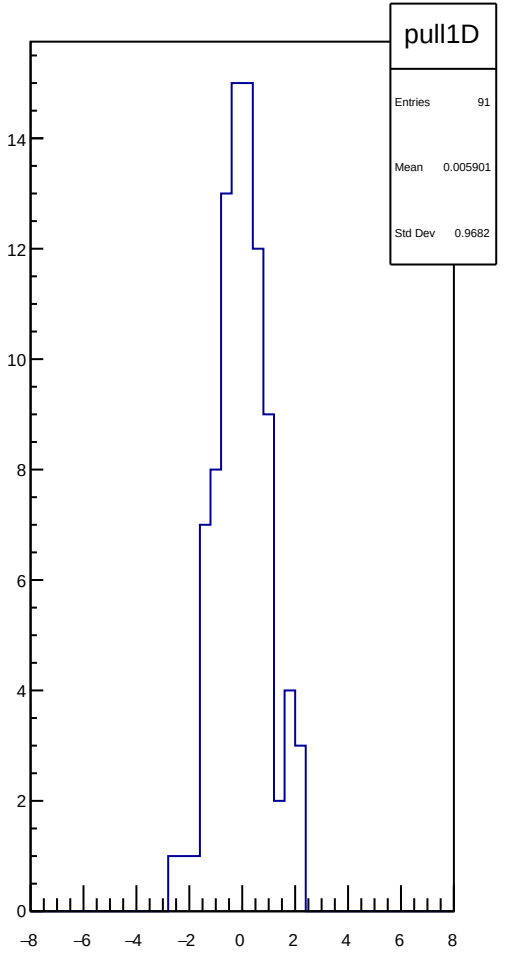

diff_bpm0l07X_rms vs run
χ² / ndf 2.038e+04 / 90
p0 9079 ± 6.893
16000
14000
12000
10000
8000


diff_bpm0l07Y_mean vs run
χ² / ndf 98.79 / 90
p0 −0.217 ± 0.9228
pull
Entries 91
Mean 150.6
Std Dev 0

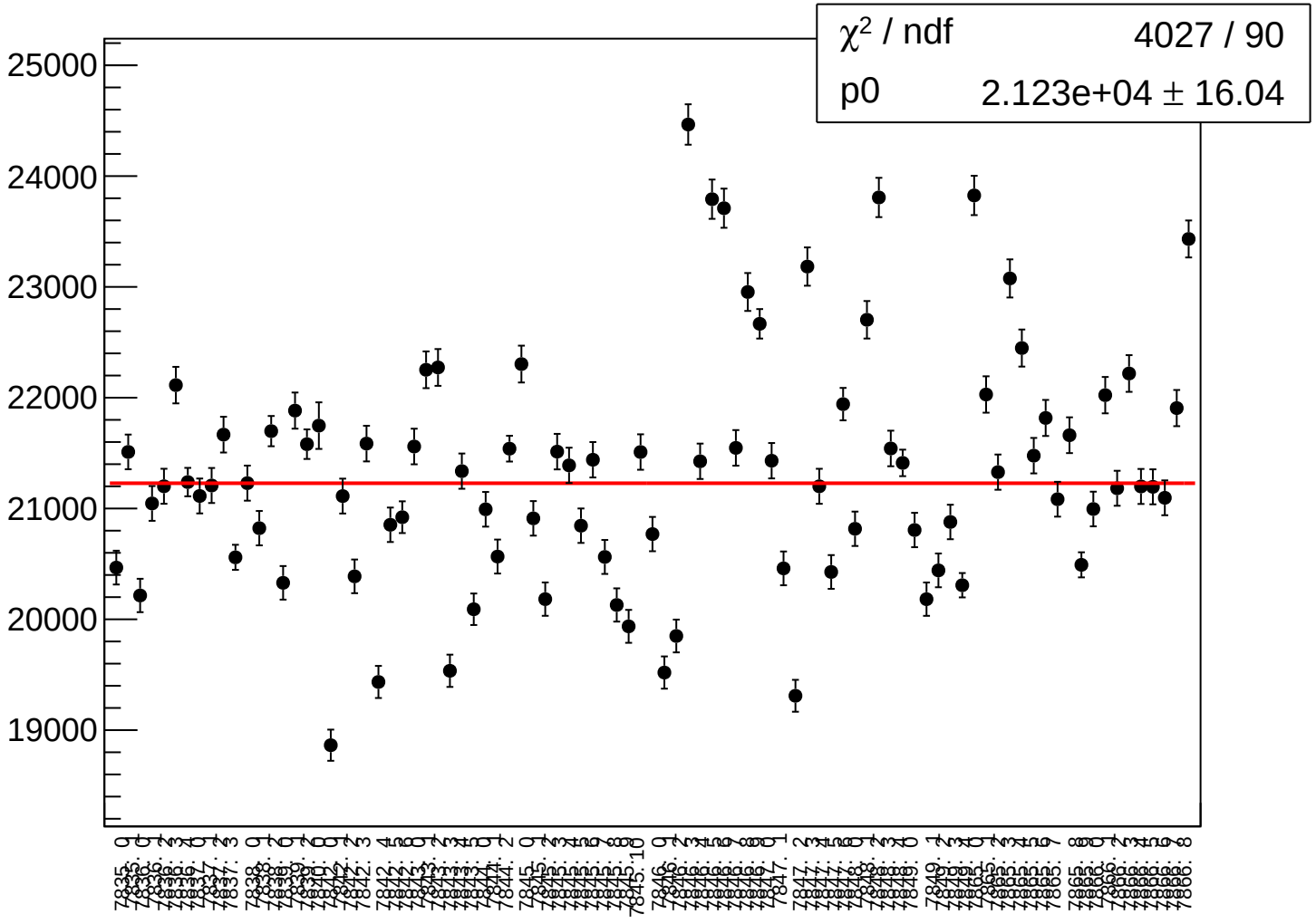

pull1D
Entries 91
Mean 0.01509
Std Dev 1.042

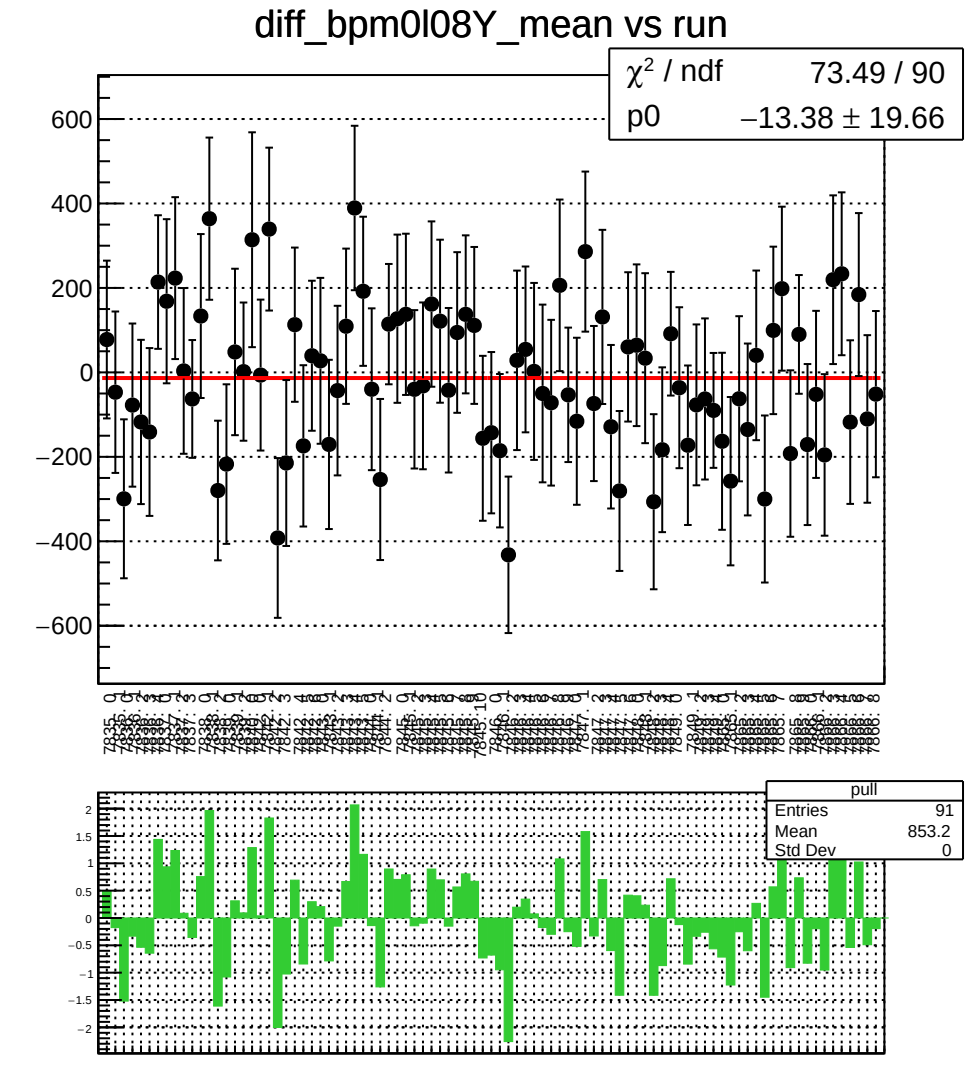

diff_bpm0l07Y_rms vs run
χ² / ndf 1580 / 90
p0 864.1 ± 0.6525
920
900
880
860
840
820

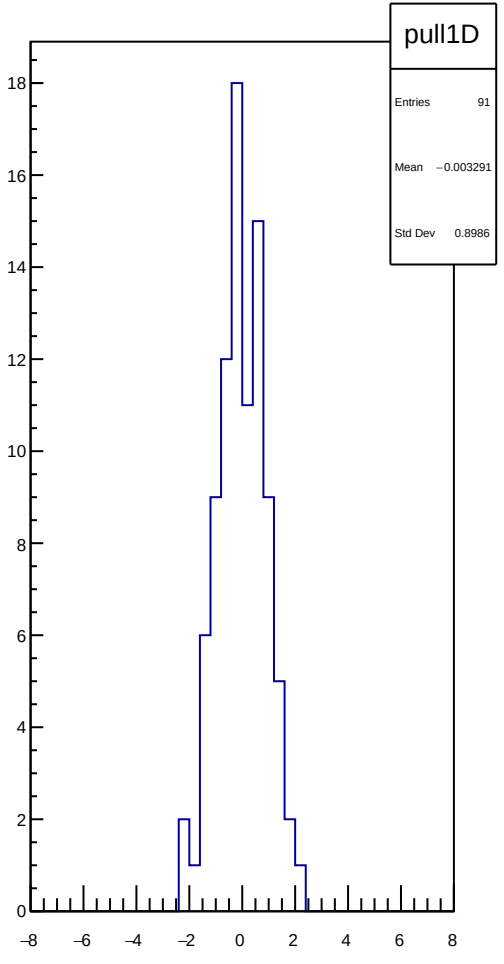

diff_bpm0l08X_mean vs run
χ² / ndf 85.31 / 90
p0 11.35 ± 22.69
pull
Entries 91
Mean 796.2
Std Dev 0

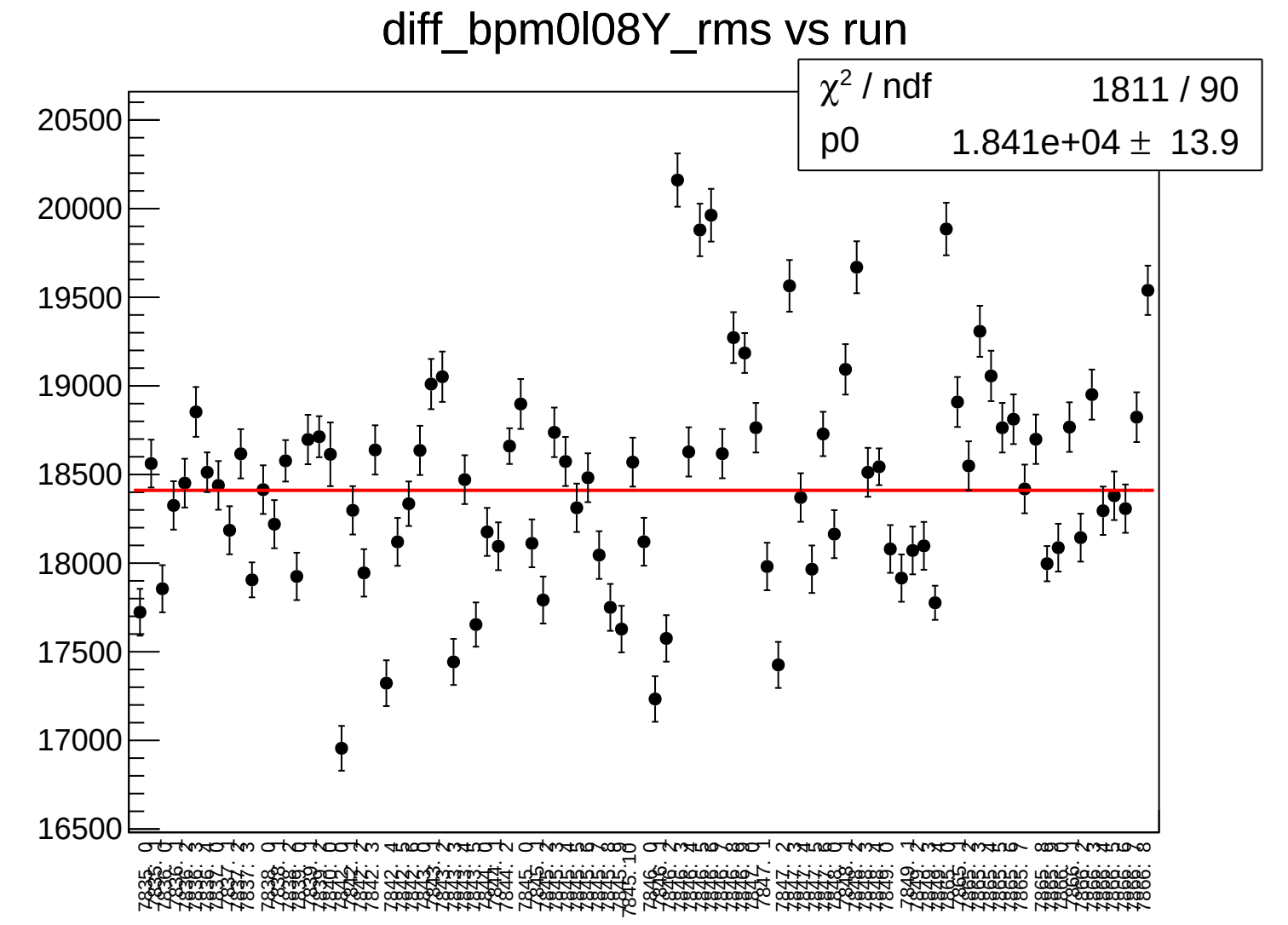

pull1D
Entries 91
Mean 0.005901
Std Dev 0.9682

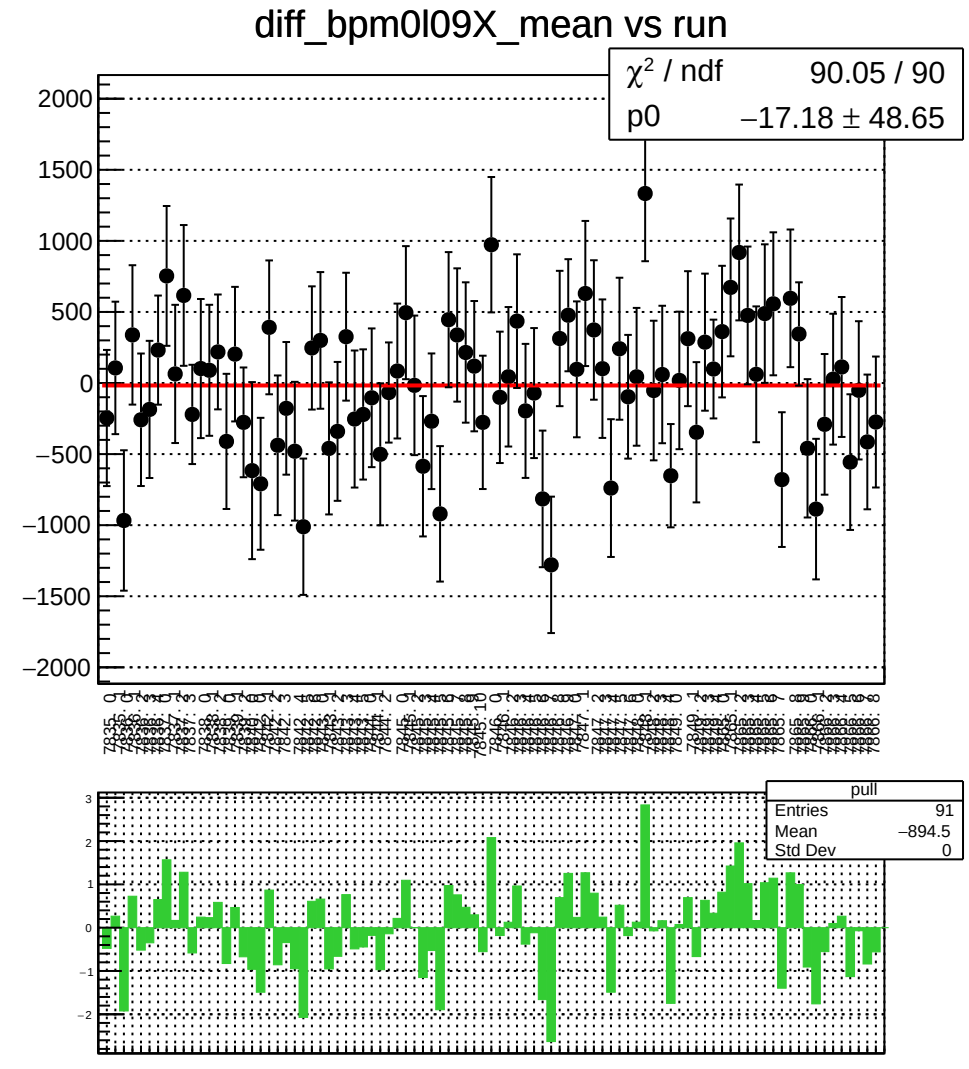
diff_bpm0l08X_rms vs run

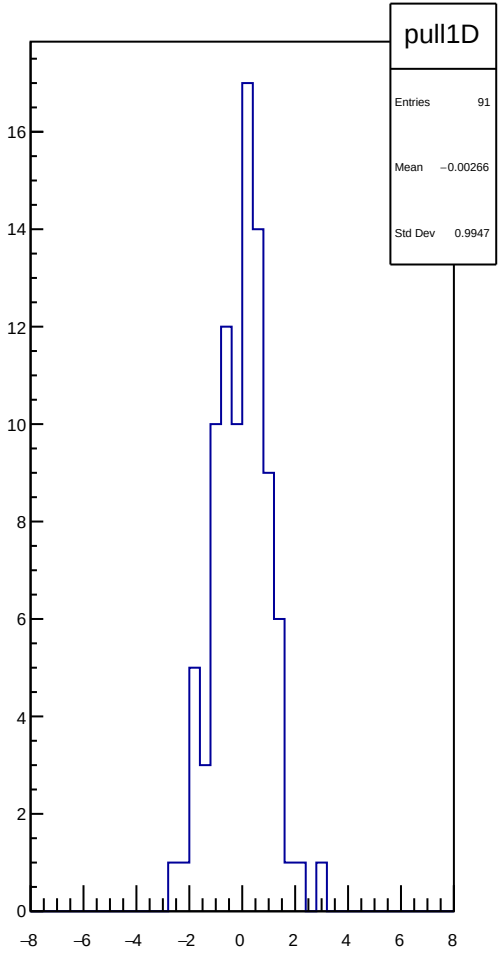


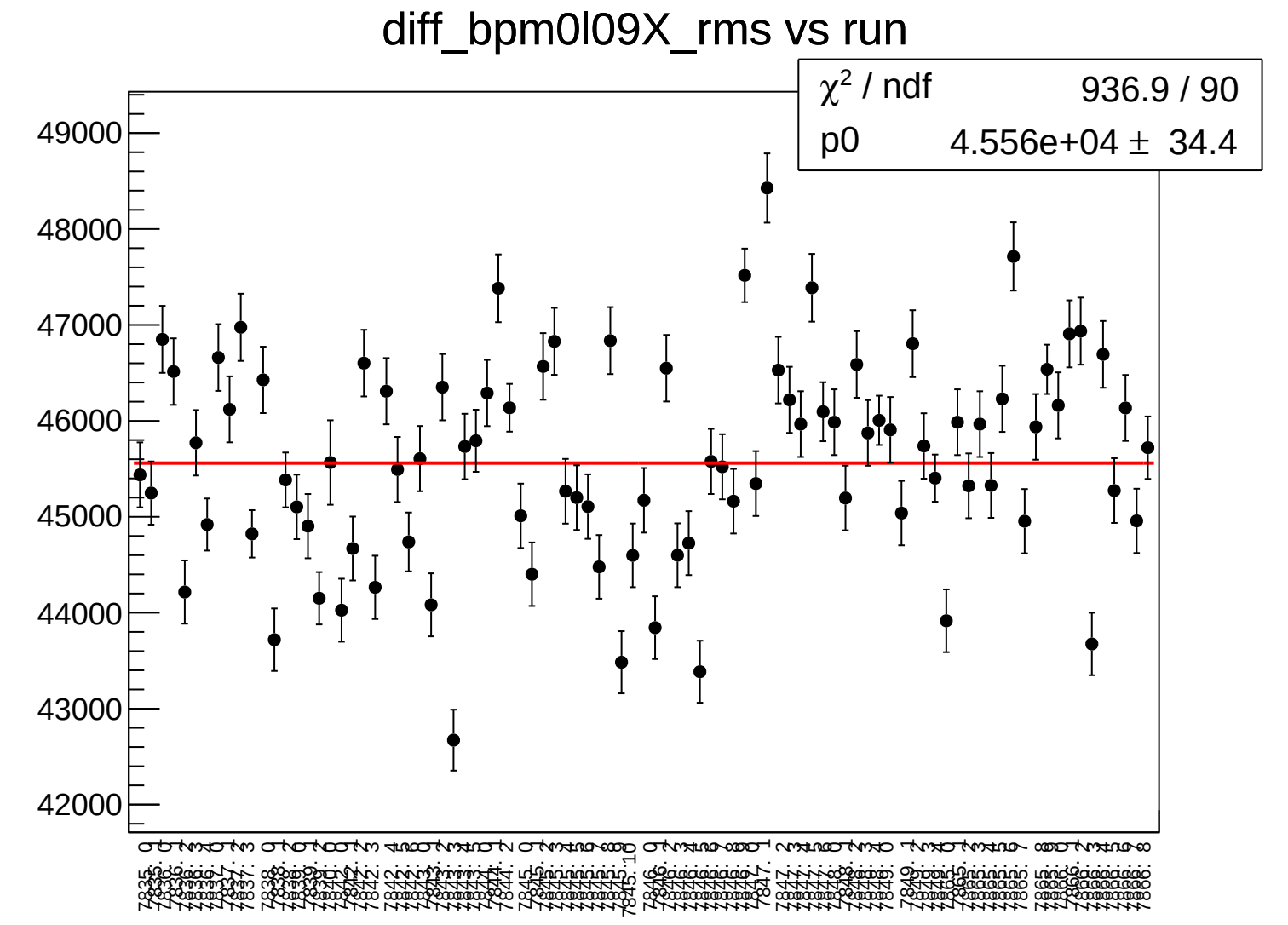

diff_bpm0l08Y_mean vs run
χ² / ndf 73.49 / 90
p0 −13.38 ± 19.66
pull
Entries 91
Mean 853.2
Std Dev 0

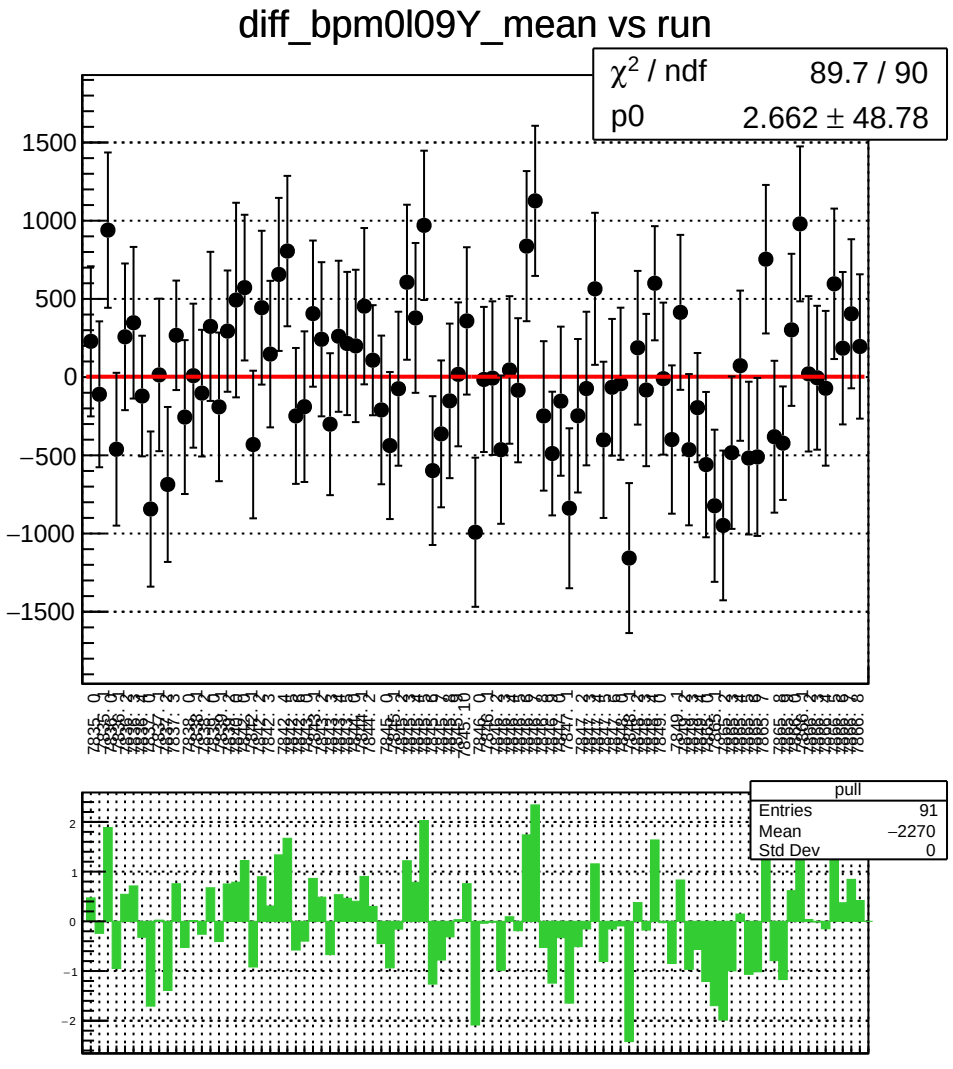

pull1D
Entries 91
Mean −0.003291
Std Dev 0.8986

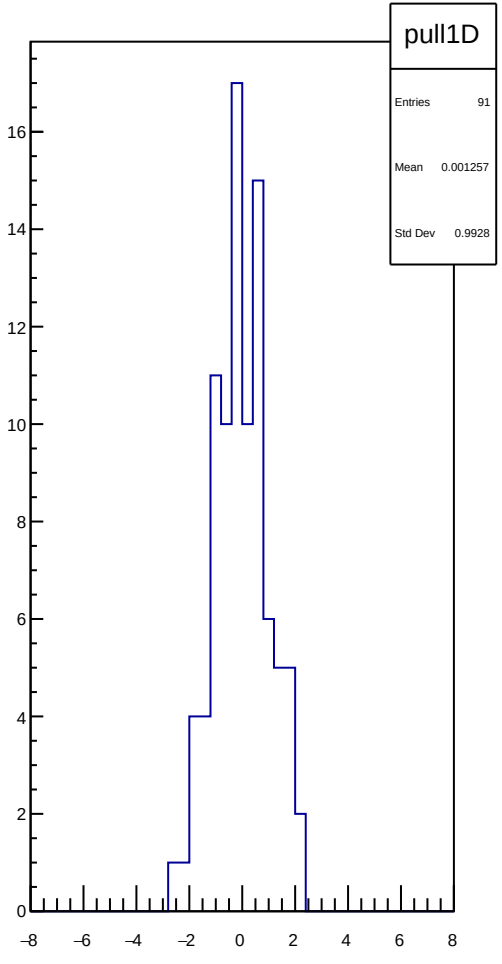

diff_bpm0l08Y_rms vs run
χ² / ndf 1811 / 90
p0 1.841e+04 ± 13.9
20500
20000
19500
19000
18500
18000
17500
17000
16500

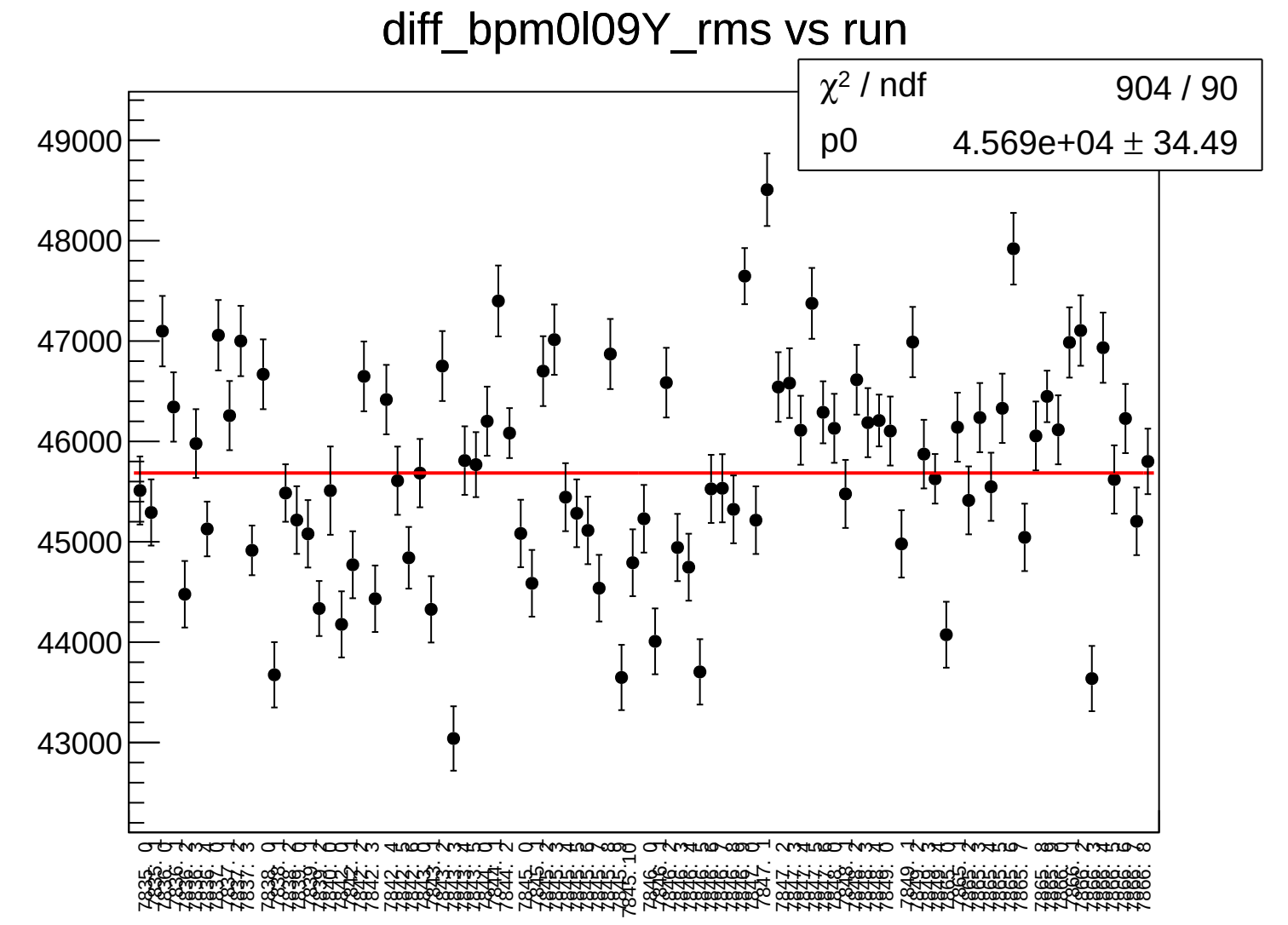

diff_bpm0l09X_mean vs run
χ² / ndf 90.05 / 90
p0 −17.18 ± 48.65
pull
Entries 91
Mean −894.5
Std Dev 0

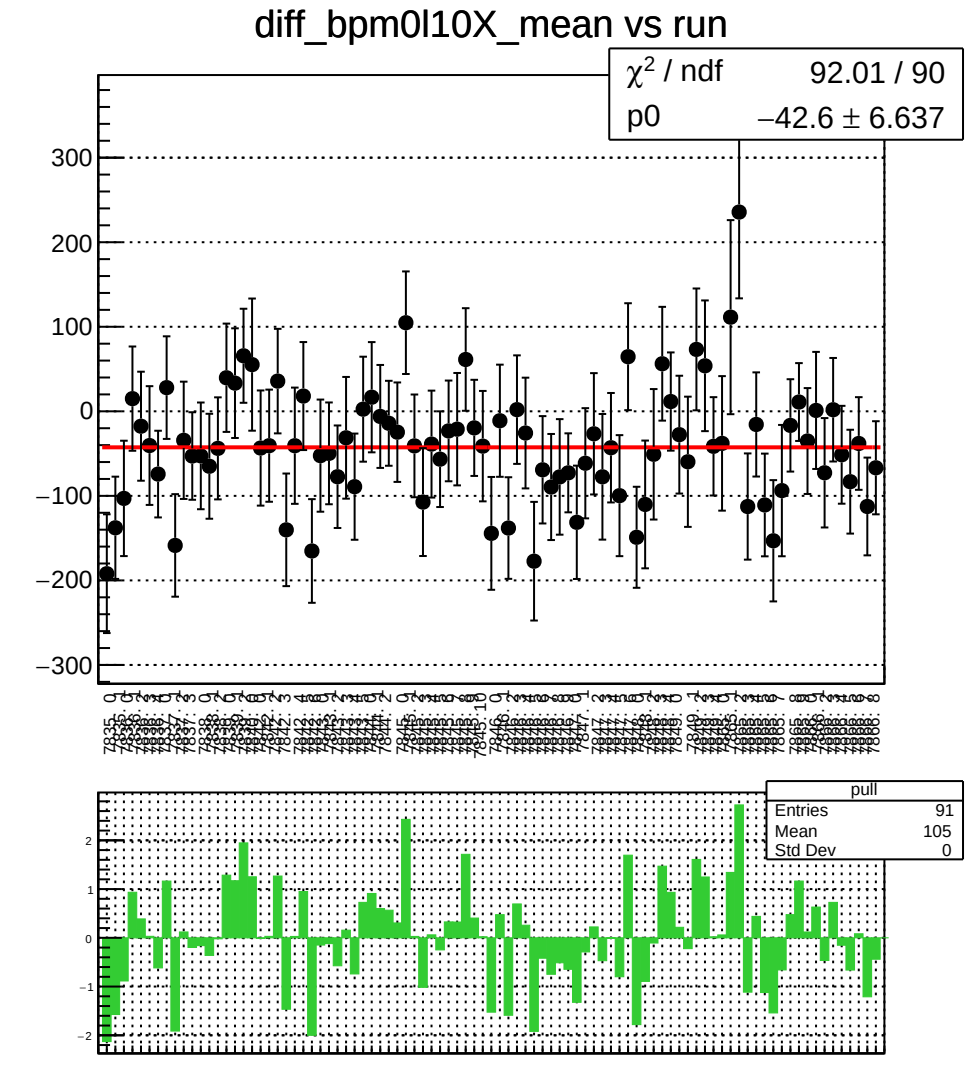

pull1D
Entries 91
Mean −0.00266
Std Dev 0.9947

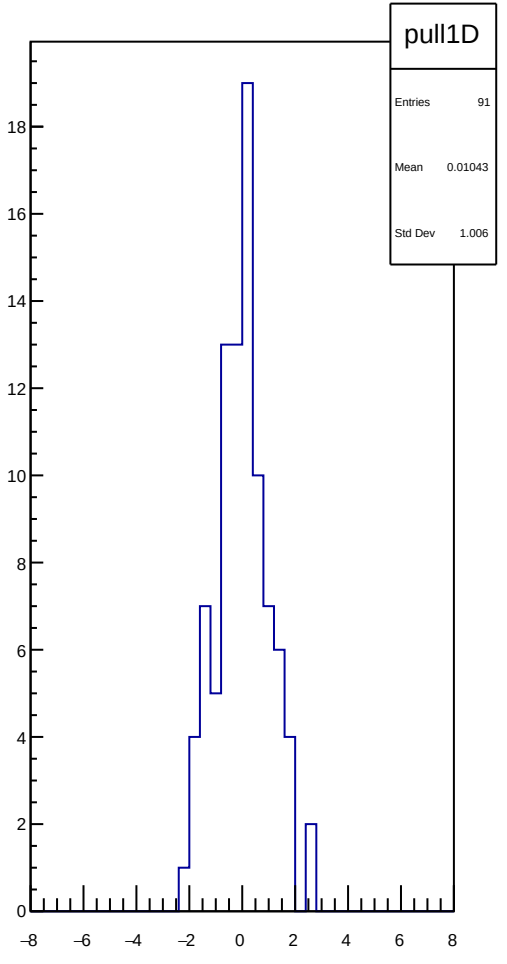

diff_bpm0l09X_rms vs run
χ^2 / ndf 936.9 / 90
p0 4.556e+04 ± 34.4
49000
48000
47000
46000
45000
44000
43000
42000

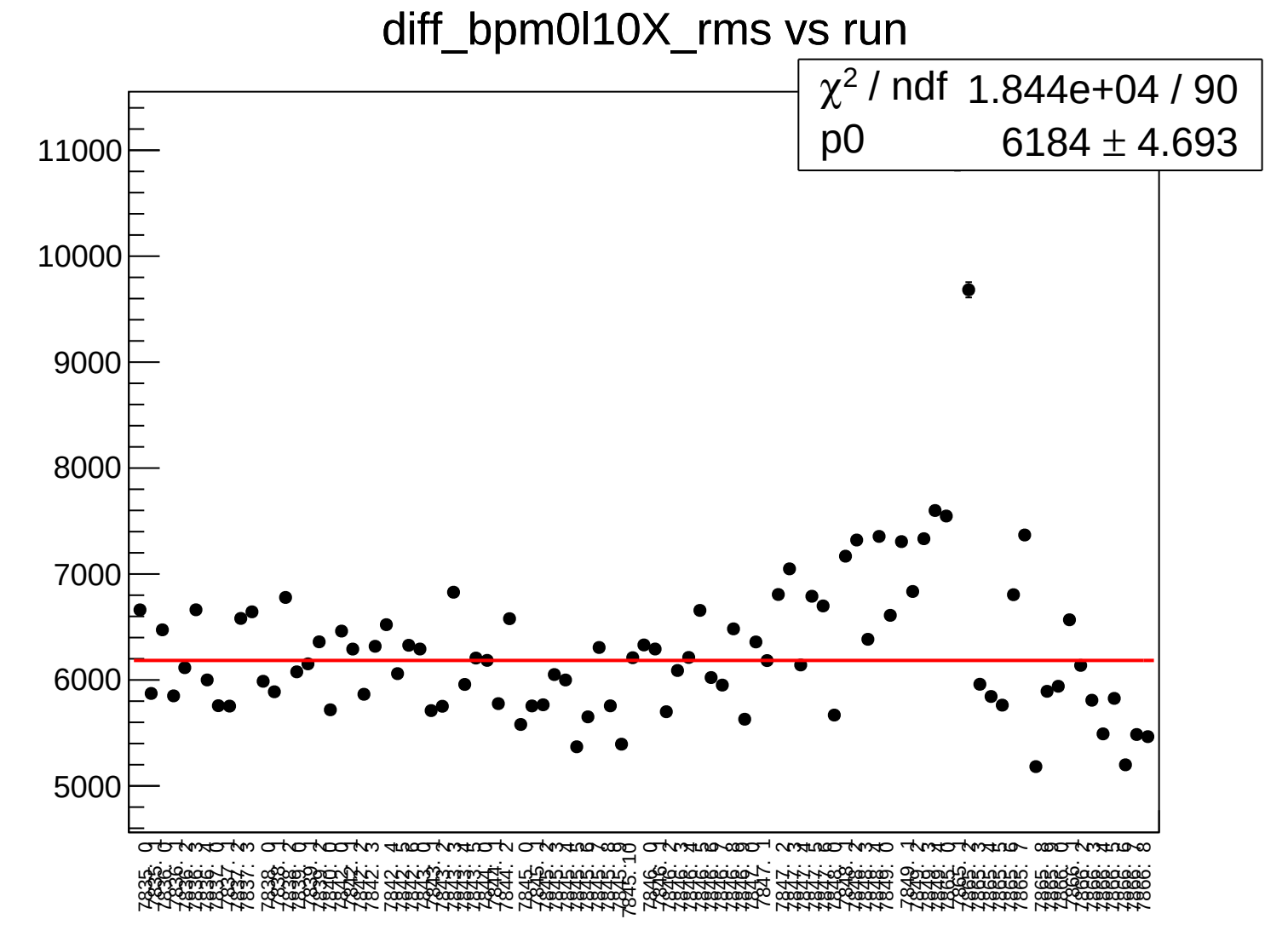

diff_bpm0l09Y_mean vs run
χ^2 / ndf 89.7 / 90
p0 2.662 ± 48.78
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −2270
Std Dev 0
2
1
0
−1
−2

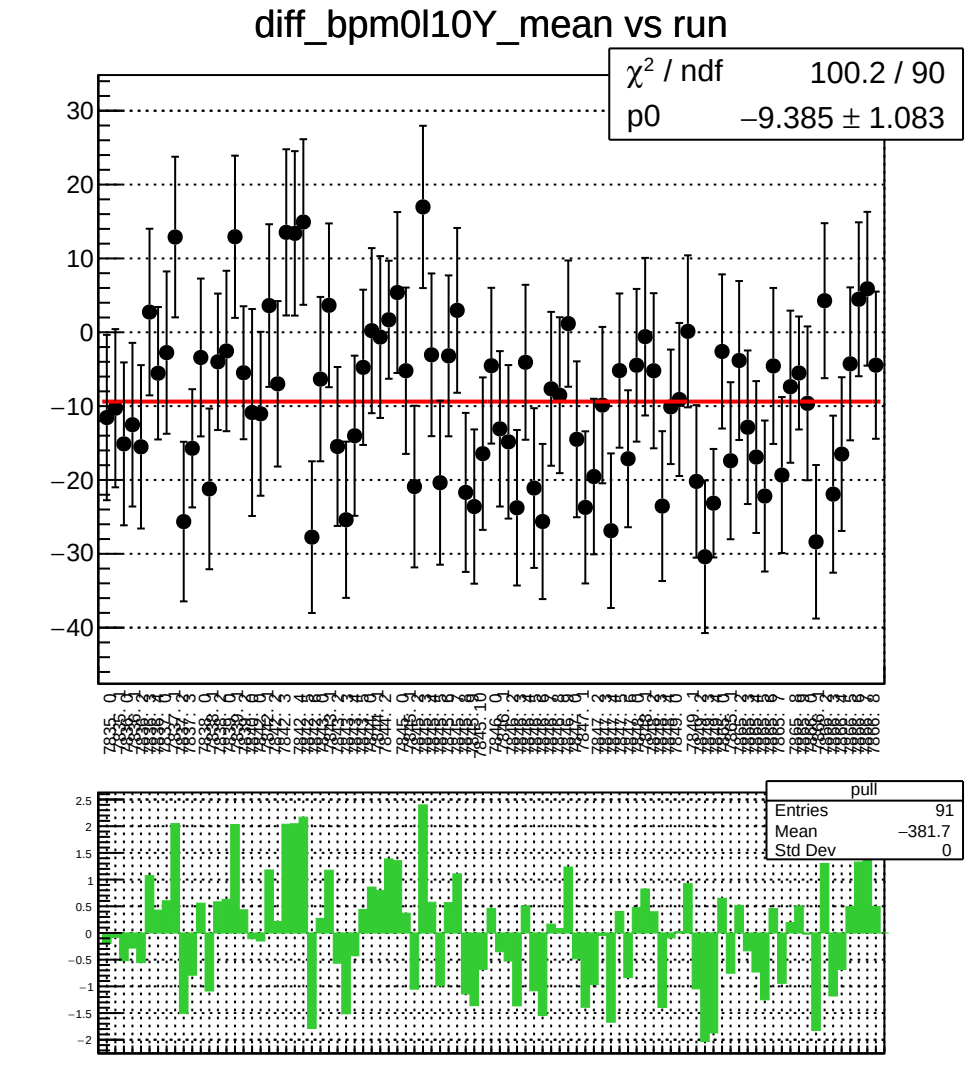

pull1D
Entries 91
Mean 0.001257
Std Dev 0.9928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

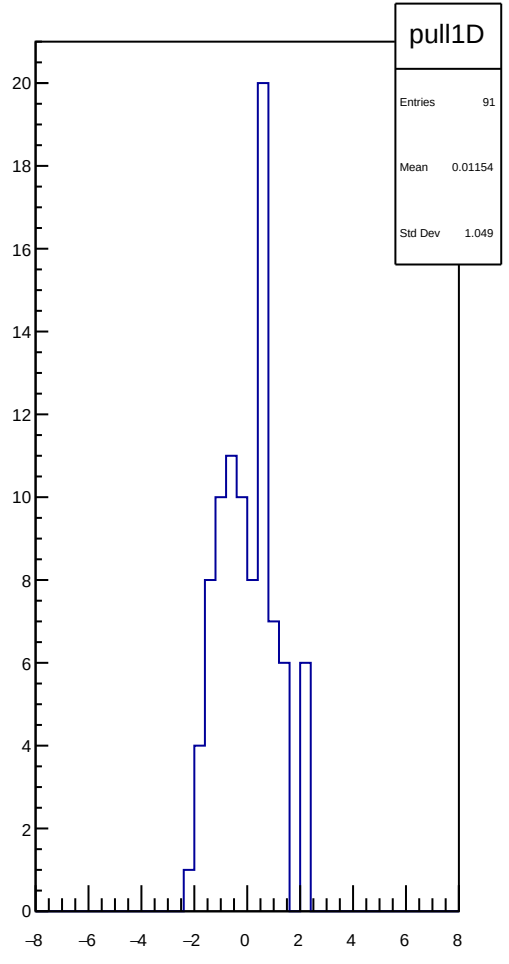

diff_bpm0l09Y_rms vs run
χ² / ndf 904 / 90
p0 4.569e+04 ± 34.49
49000
48000
47000
46000
45000
44000
43000

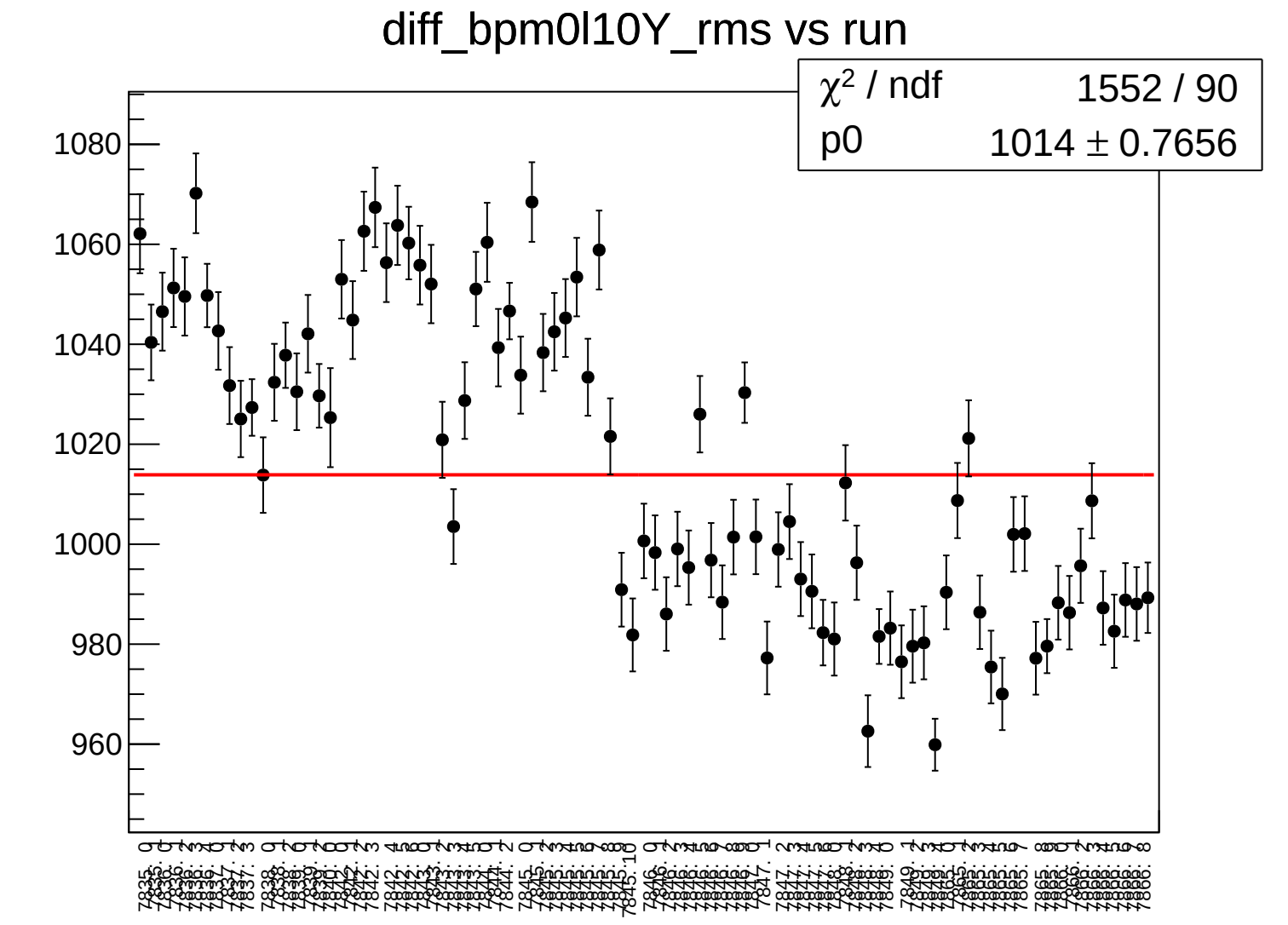

diff_bpm0l10X_mean vs run
χ² / ndf 92.01 / 90
p0 −42.6 ± 6.637
pull
Entries 91
Mean 105
Std Dev 0

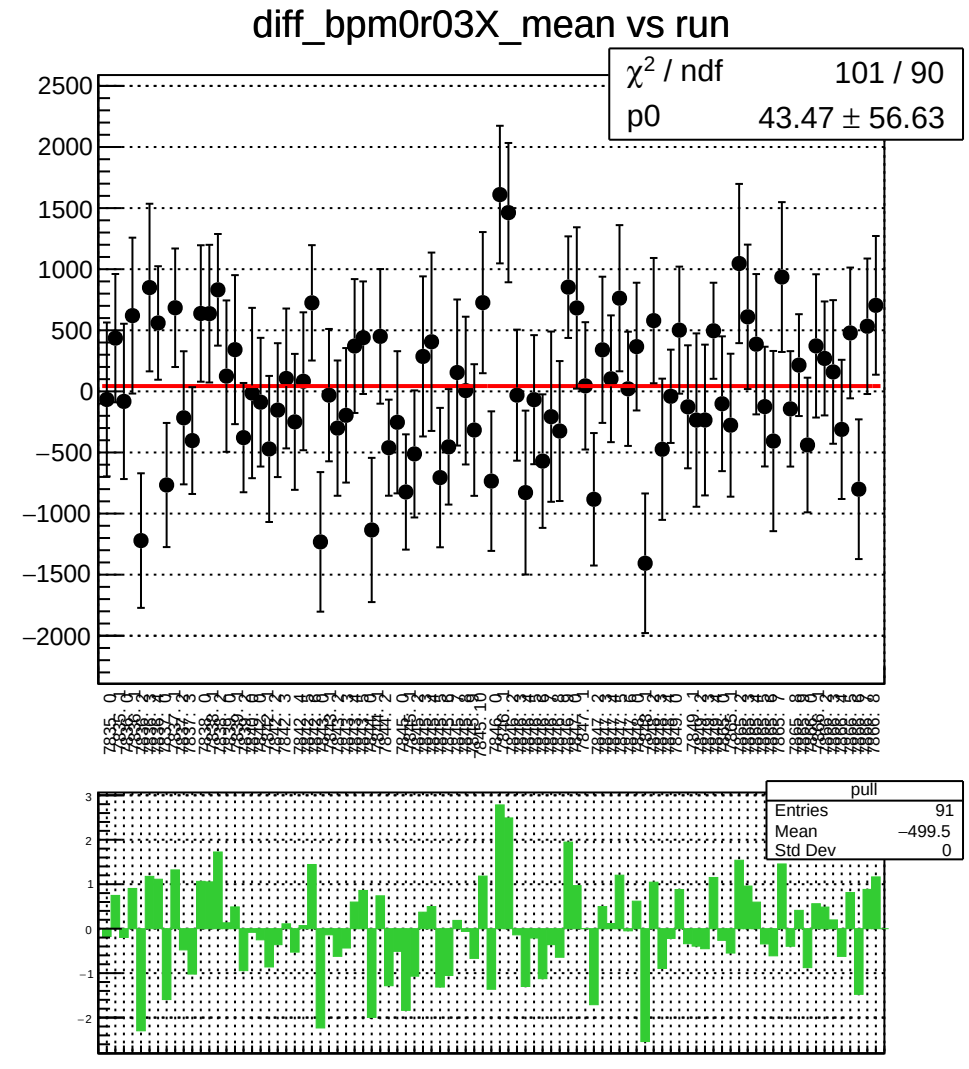

pull1D
Entries 91
Mean 0.01043
Std Dev 1.006

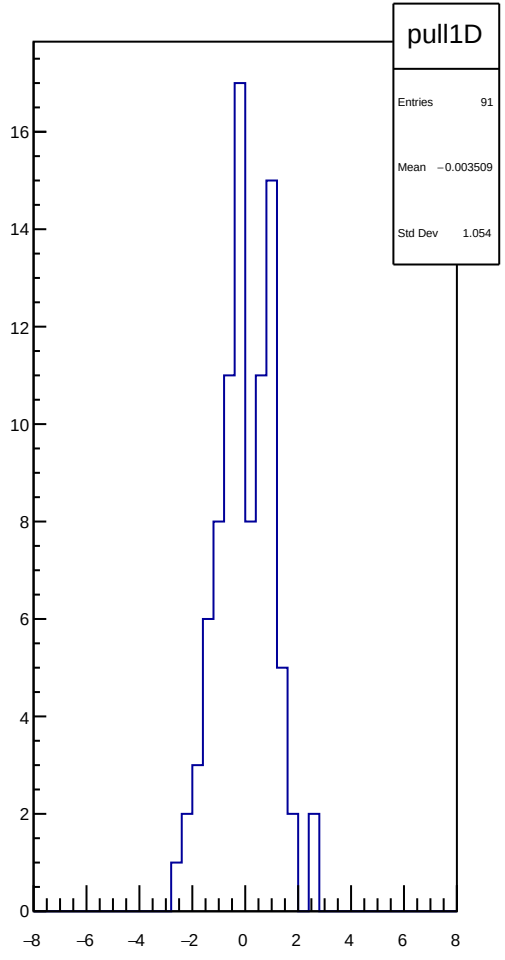

diff_bpm0l10X_rms vs run
χ² / ndf 1.844e+04 / 90
p0 6184 ± 4.693
11000
10000
9000
8000
7000
6000
5000

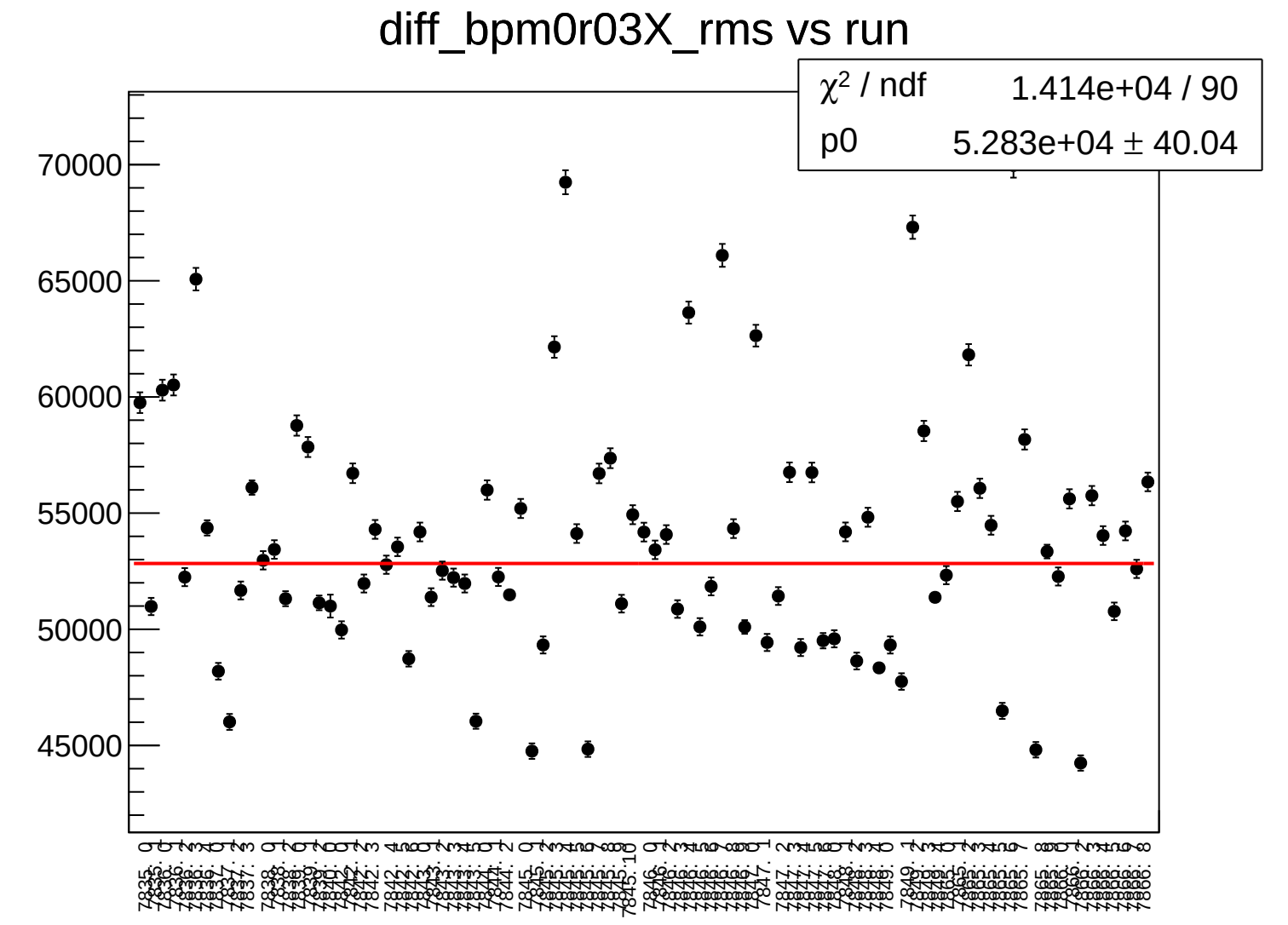

diff_bpm0l10Y_mean vs run
χ² / ndf 100.2 / 90
p0 −9.385 ± 1.083
pull
Entries 91
Mean −381.7
Std Dev 0

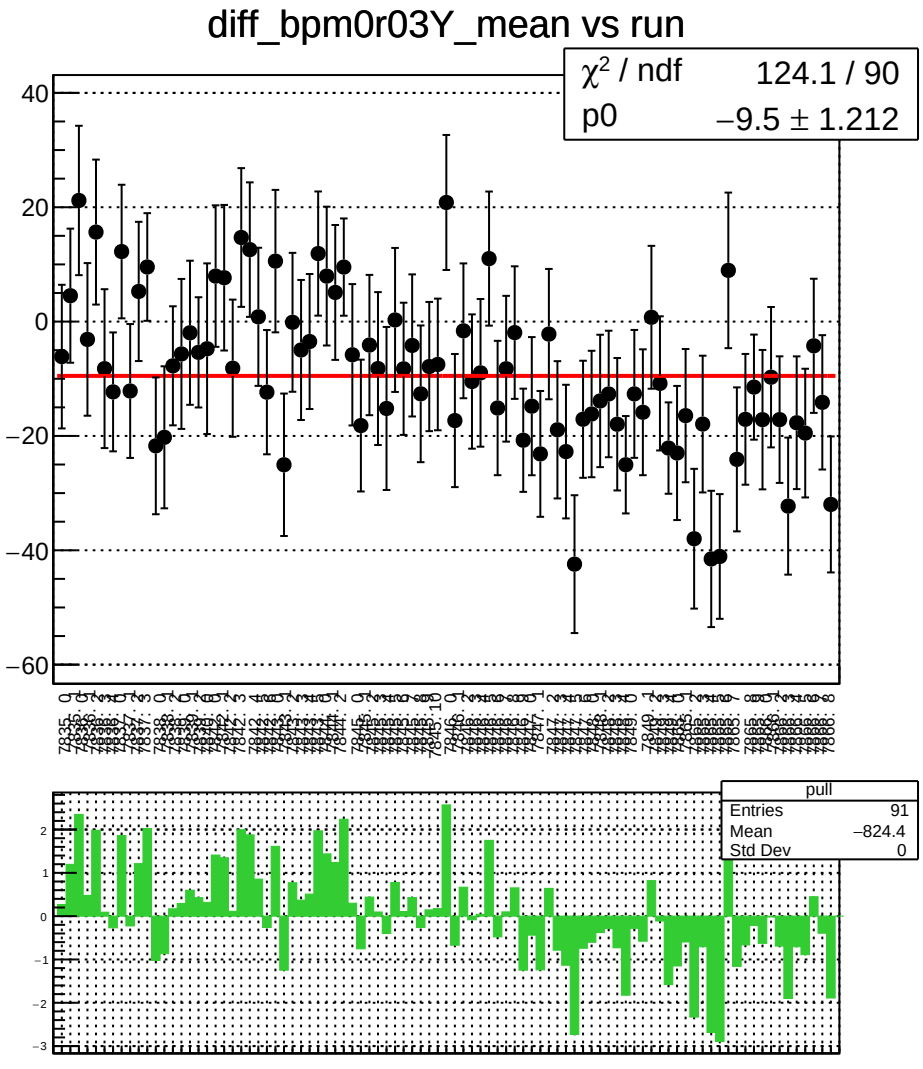

pull1D
Entries 91
Mean 0.01154
Std Dev 1.049

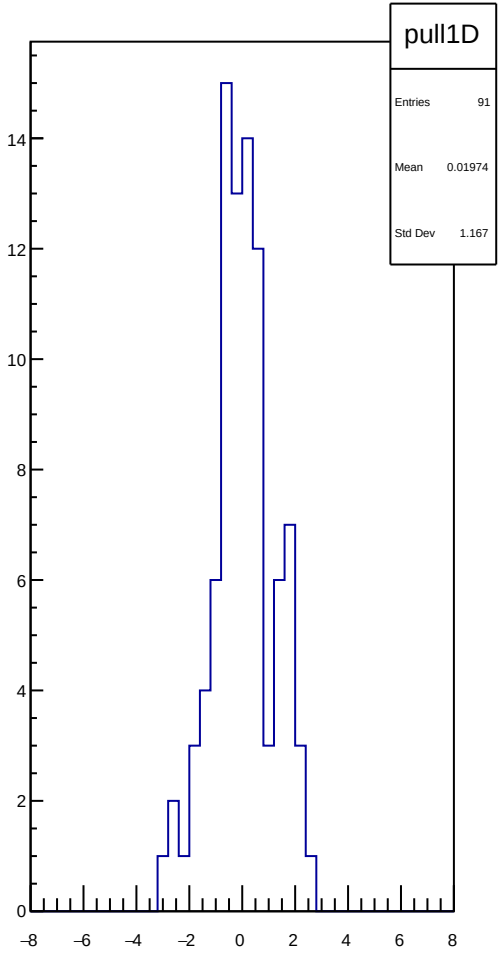

diff_bpm0l10Y_rms vs run
χ² / ndf 1552 / 90
p0 1014 ± 0.7656
1080
1060
1040
1020
1000
980
960

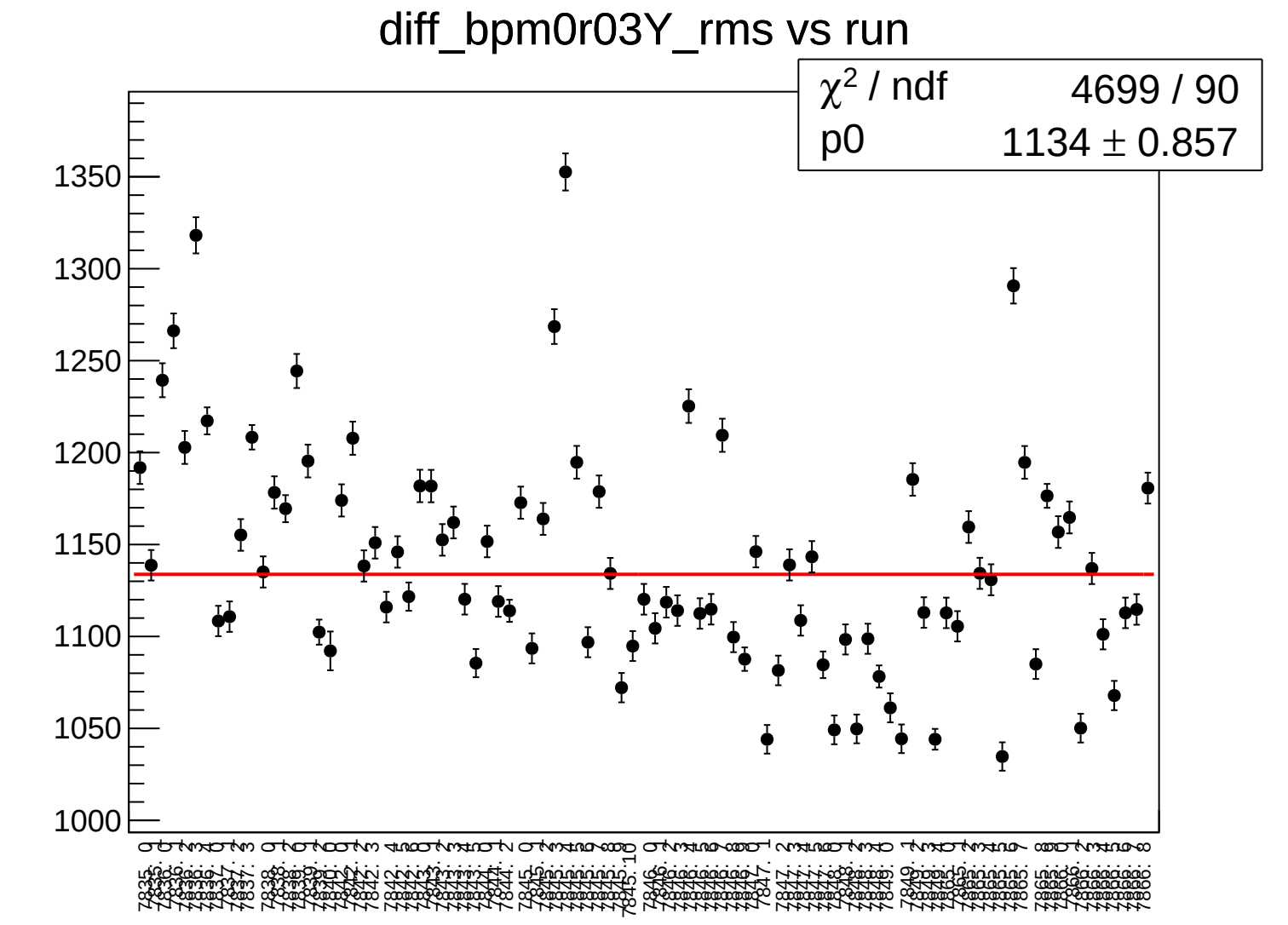

diff_bpm0r03X_mean vs run
χ² / ndf 101 / 90
p0 43.47 ± 56.63
pull
Entries 91
Mean −499.5
Std Dev 0

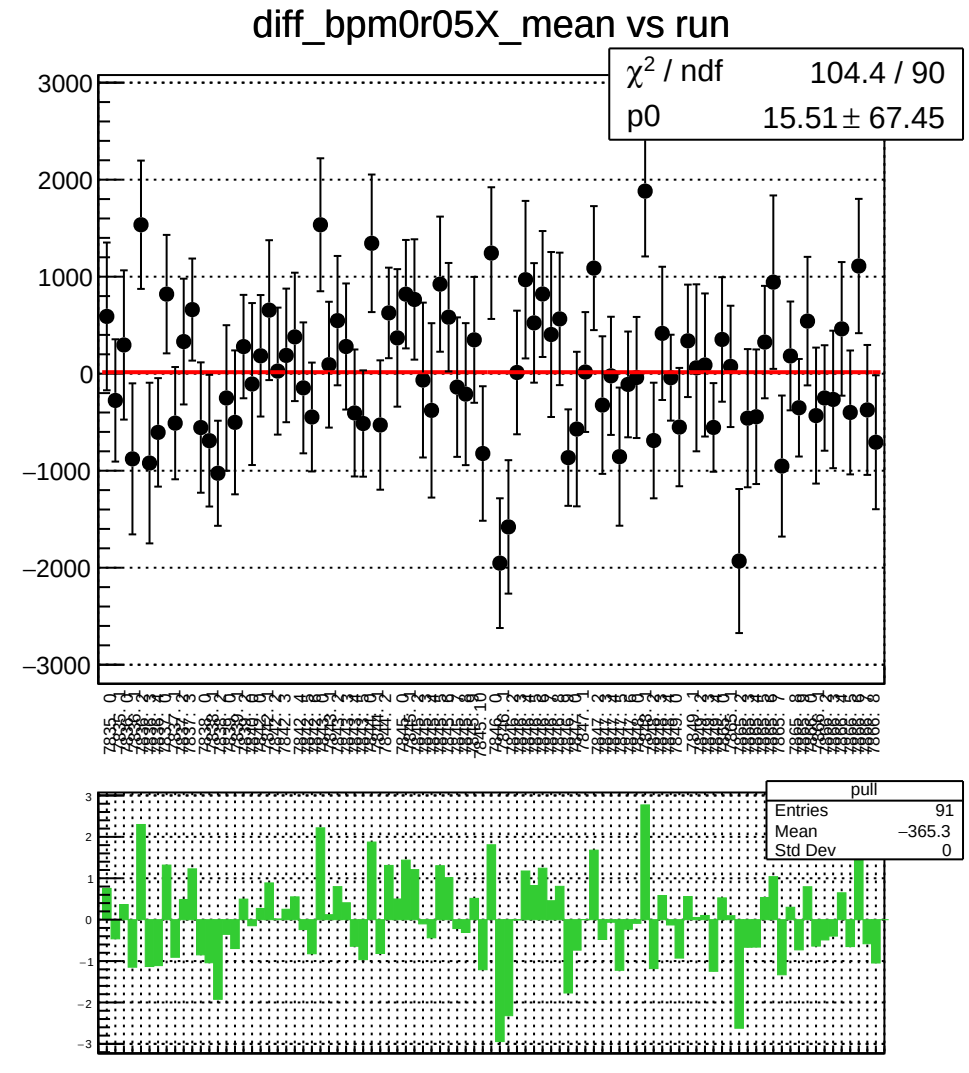

pull1D
Entries 91
Mean −0.003509
Std Dev 1.054

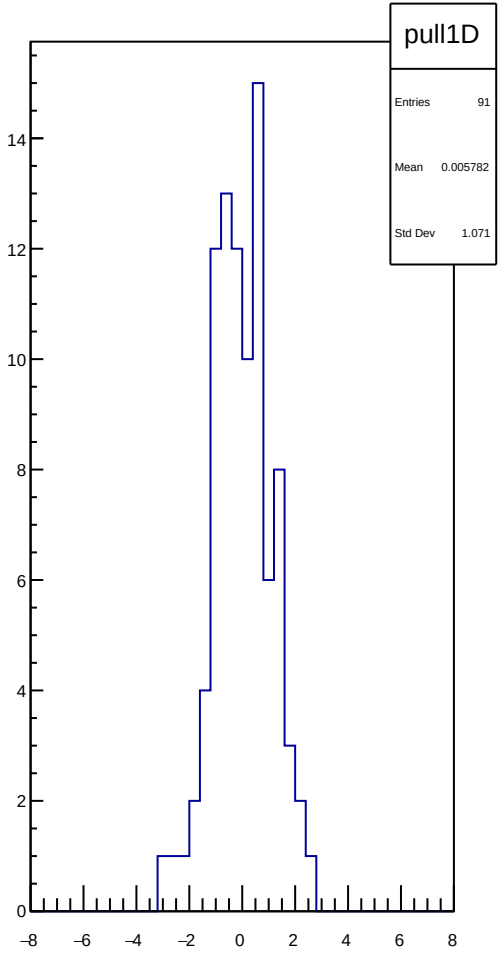

diff_bpm0r03X_rms vs run
χ² / ndf 1.414e+04 / 90
p0 5.283e+04 ± 40.04
70000
65000
60000
55000
50000
45000

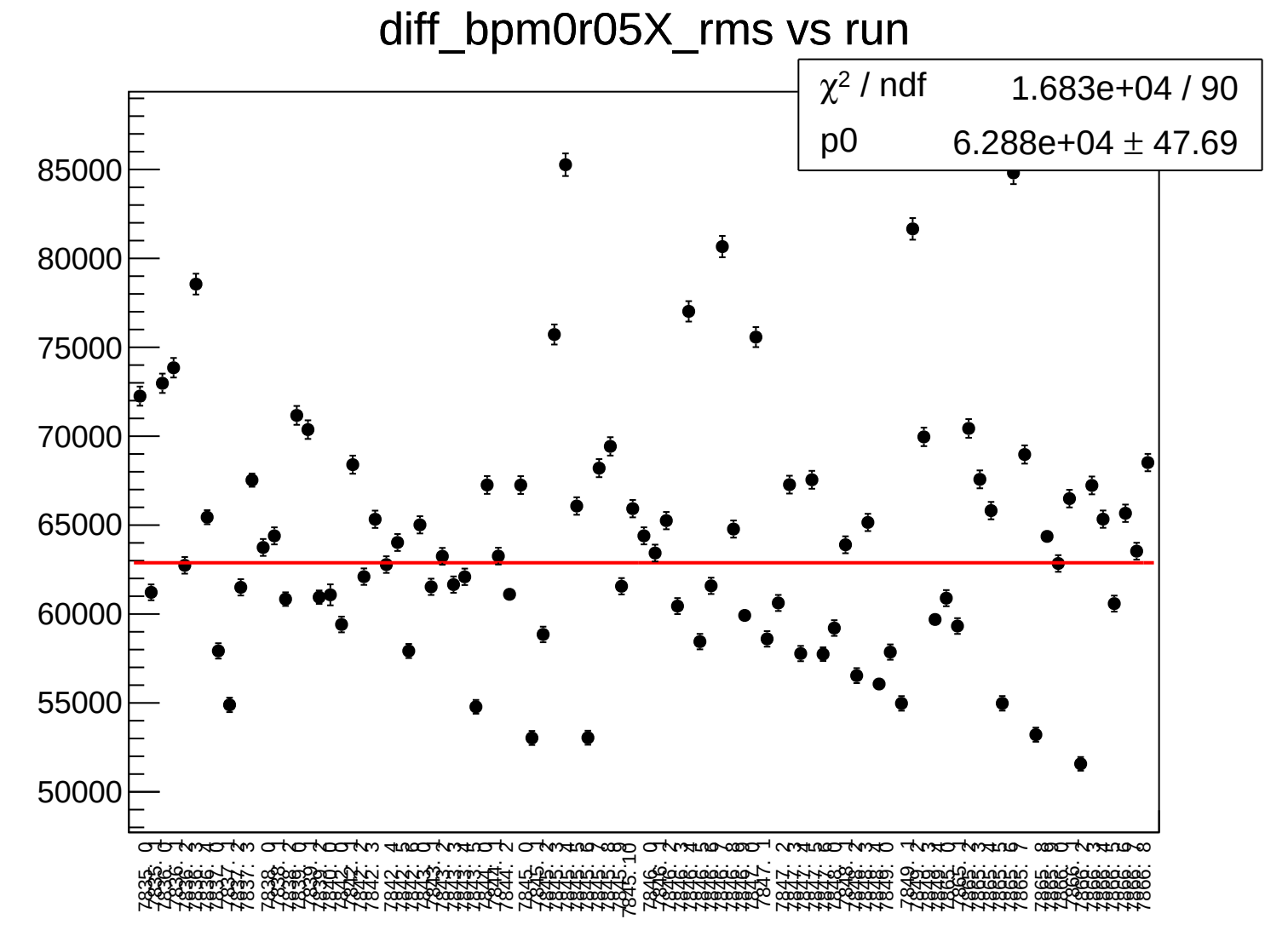

diff_bpm0r03Y_mean vs run
χ² / ndf 124.1 / 90
p0 −9.5 ± 1.212
pull
Entries 91
Mean −824.4
Std Dev 0

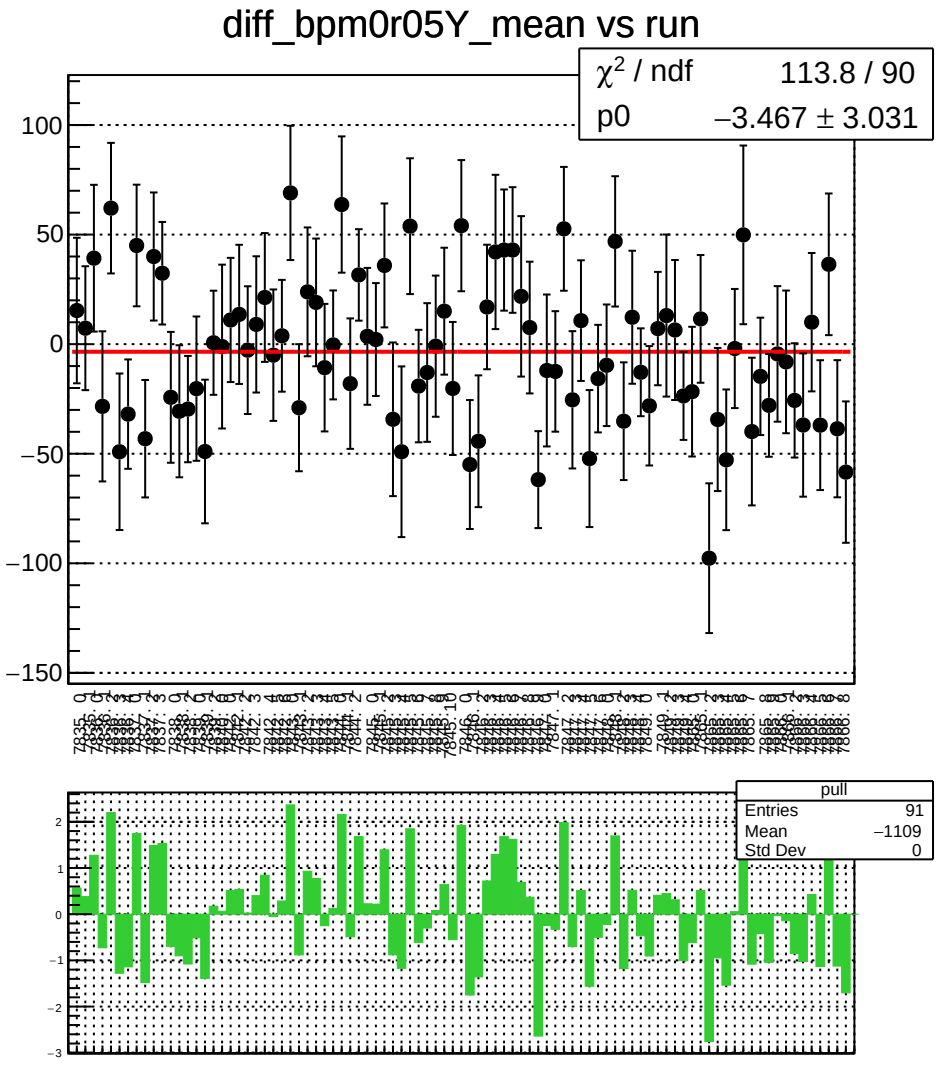

pull1D
Entries 91
Mean 0.01974
Std Dev 1.167

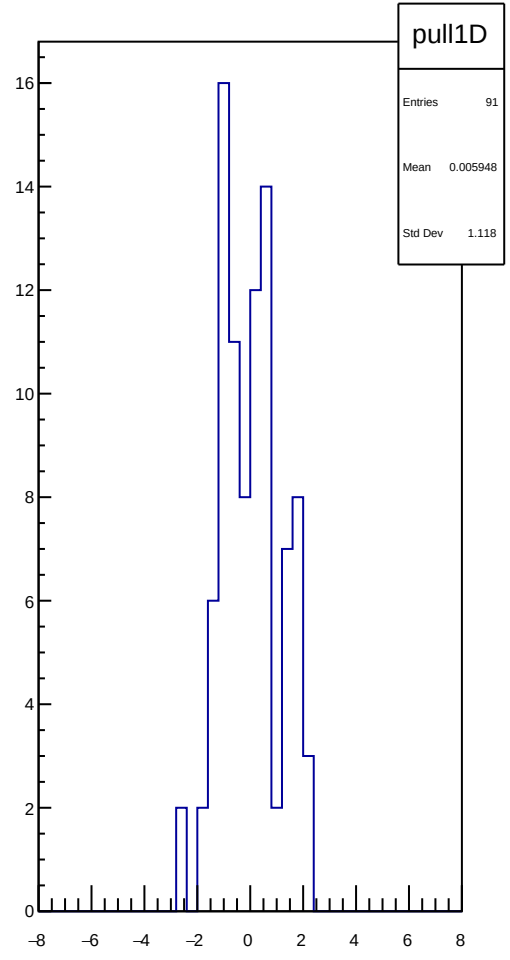

diff_bpm0r03Y_rms vs run
χ² / ndf 4699 / 90
p0 1134 ± 0.857
1350
1300
1250
1200
1150
1100
1050
1000

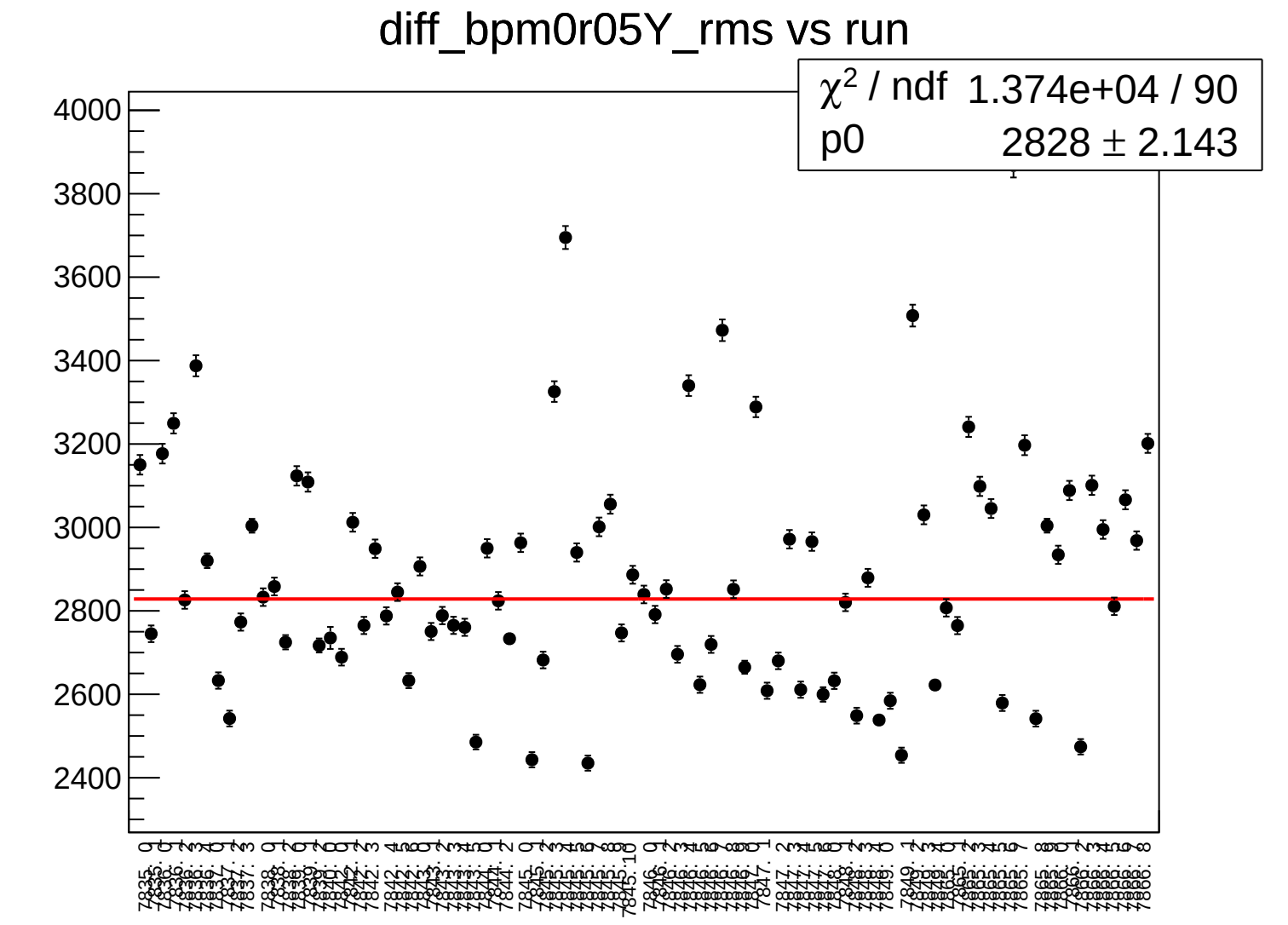

diff_bpm0r05X_mean vs run
χ^2 / ndf 104.4 / 90
p0 15.51 ± 67.45
pull
Entries 91
Mean −365.3
Std Dev 0

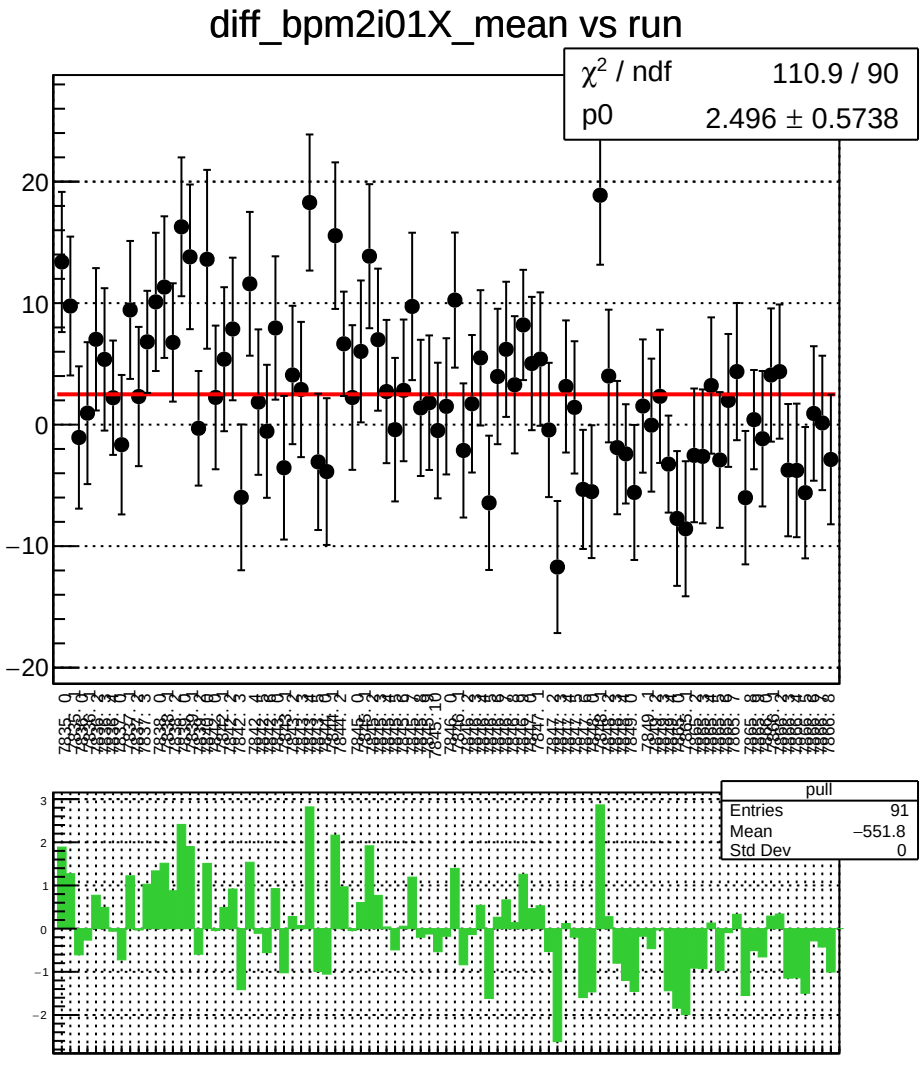

pull1D
Entries 91
Mean 0.005782
Std Dev 1.071

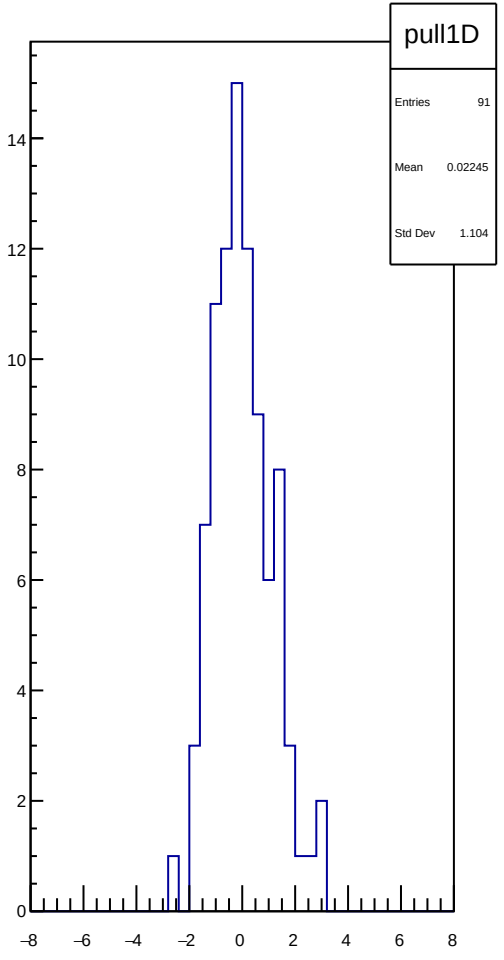

diff_bpm0r05X_rms vs run
χ² / ndf 1.683e+04 / 90
p0 6.288e+04 ± 47.69
85000
80000
75000
70000
65000
60000
55000
50000

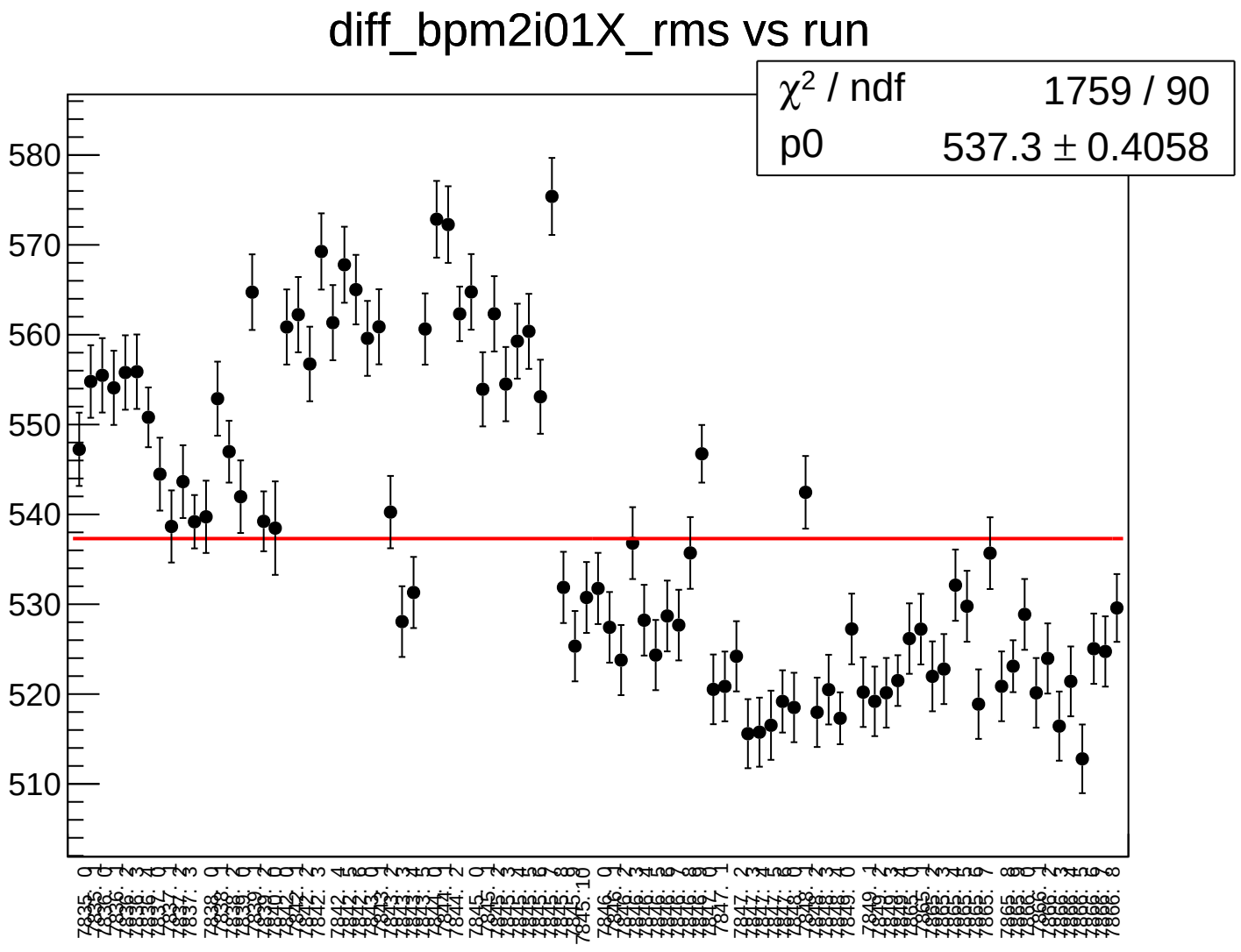

diff_bpm0r05Y_mean vs run
χ^2 / ndf 113.8 / 90
p0 −3.467 ± 3.031
pull
Entries 91
Mean −1109
Std Dev 0

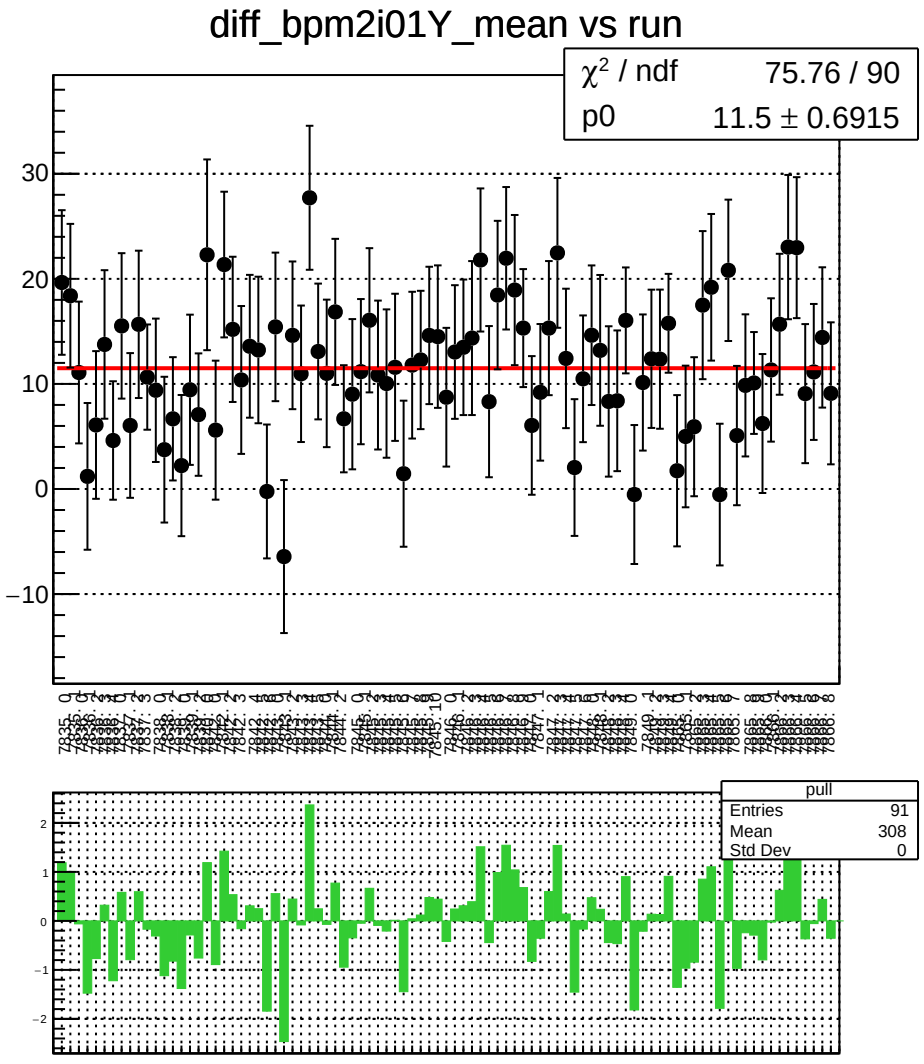

pull1D
Entries 91
Mean 0.005948
Std Dev 1.118

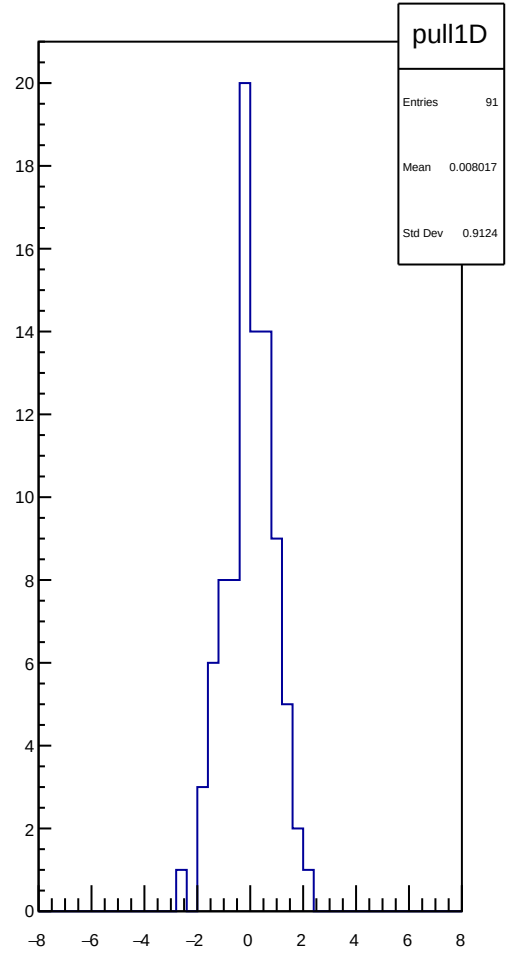

diff_bpm0r05Y_rms vs run
χ² / ndf 1.374e+04 / 90
p0 2828 ± 2.143
4000
3800
3600
3400
3200
3000
2800
2600
2400

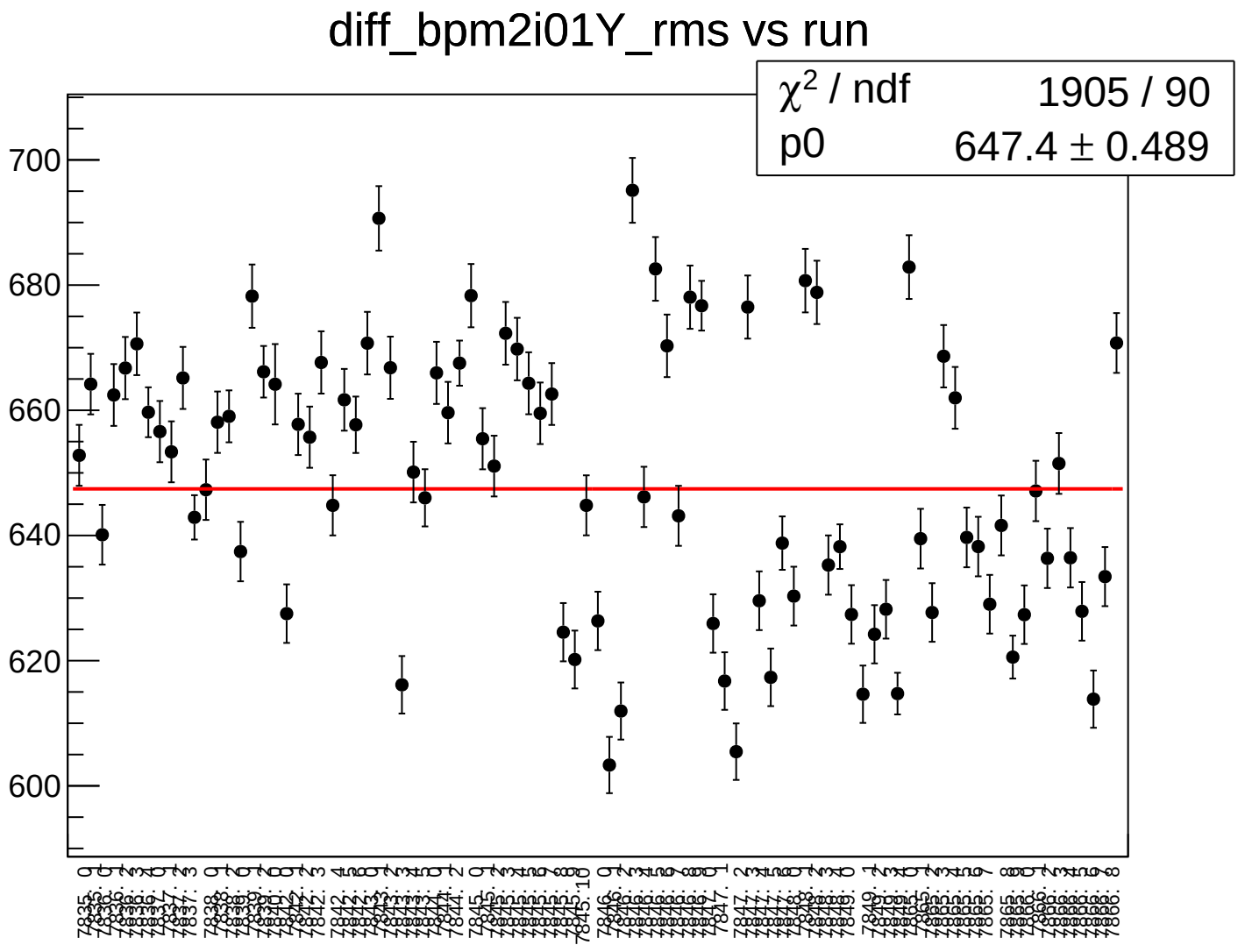

diff_bpm2i01X_mean vs run
χ² / ndf 110.9 / 90
p0 2.496 ± 0.5738
pull
Entries 91
Mean −551.8
Std Dev 0

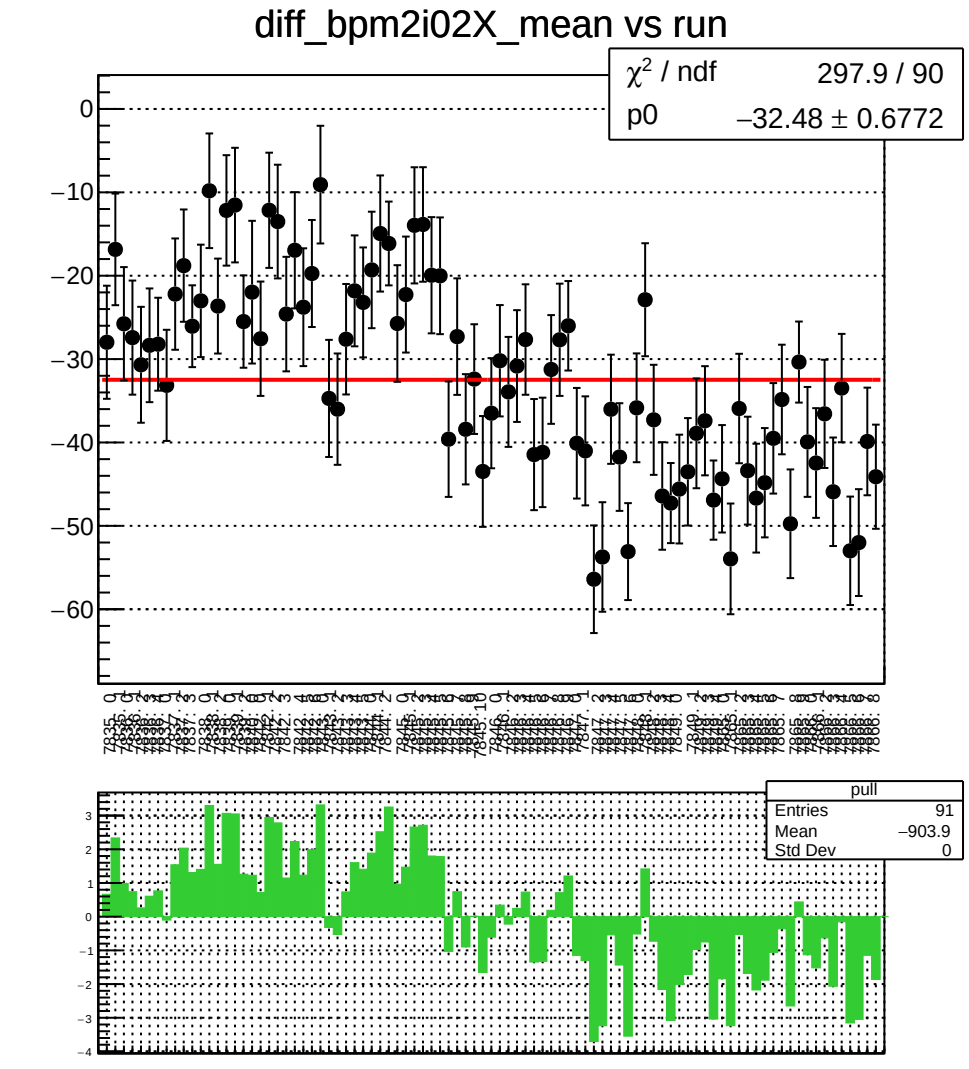

pull1D
Entries 91
Mean 0.02245
Std Dev 1.104

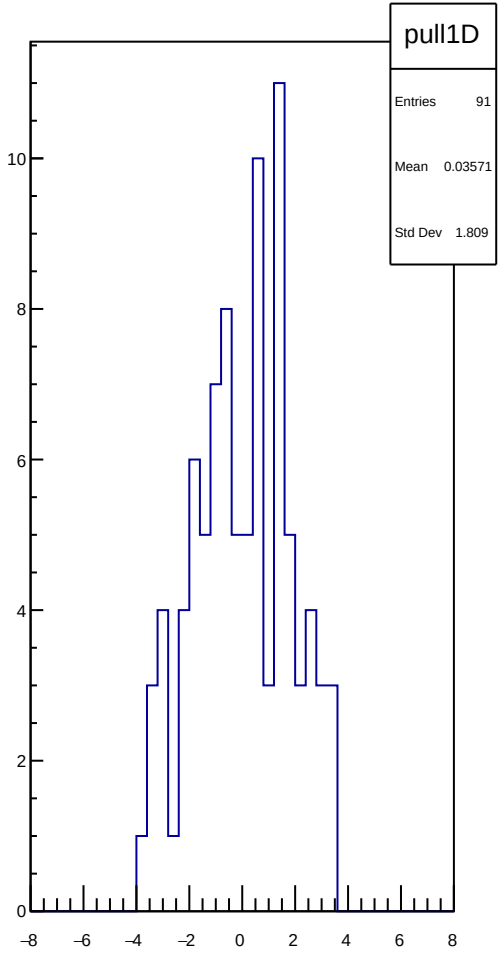

diff_bpm2i01X_rms vs run
χ² / ndf 1759 / 90
p0 537.3 ± 0.4058
580
570
560
550
540
530
520
510

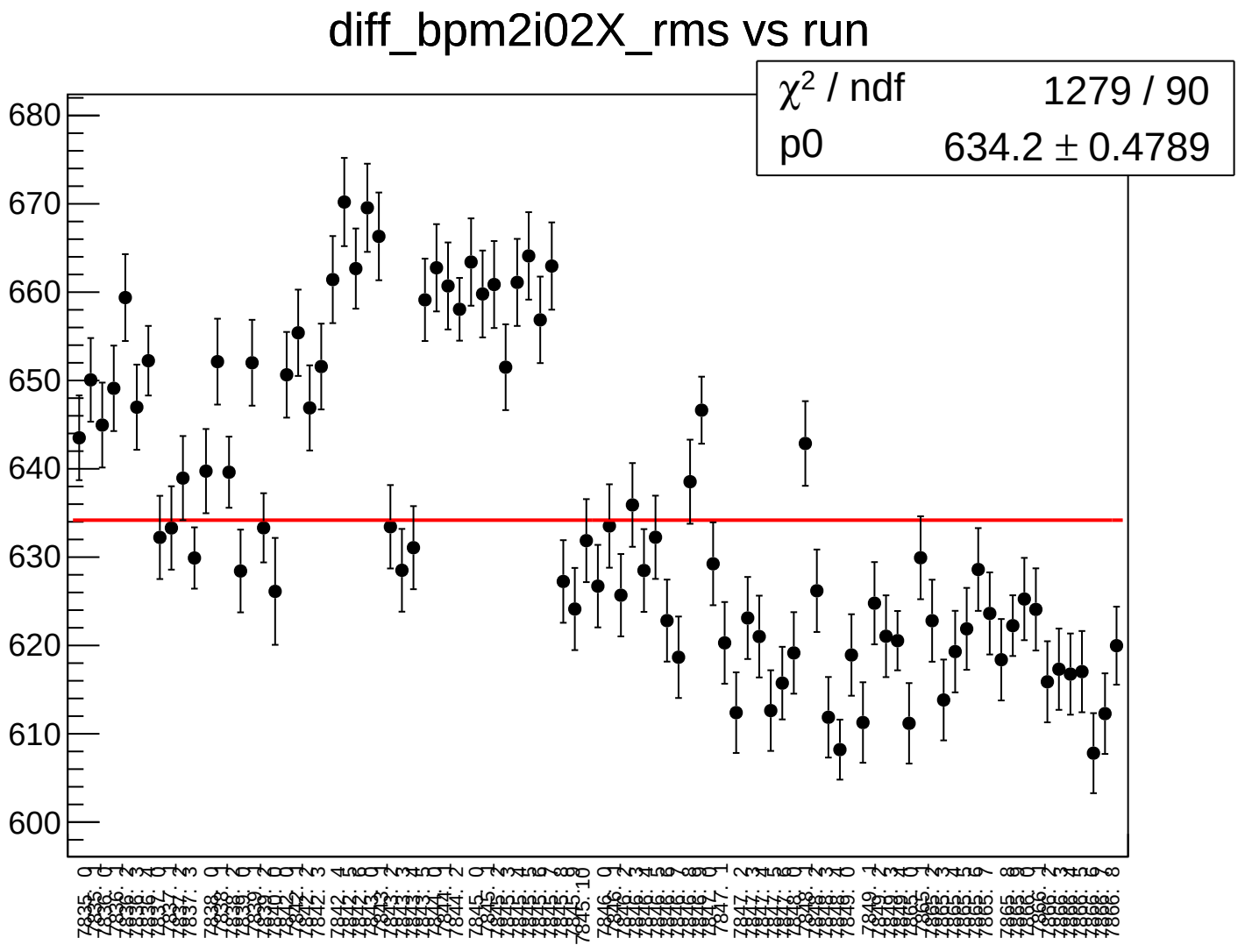

diff_bpm2i01Y_mean vs run
χ^2 / ndf 75.76 / 90
p0 11.5 ± 0.6915
pull
Entries 91
Mean 308
Std Dev 0

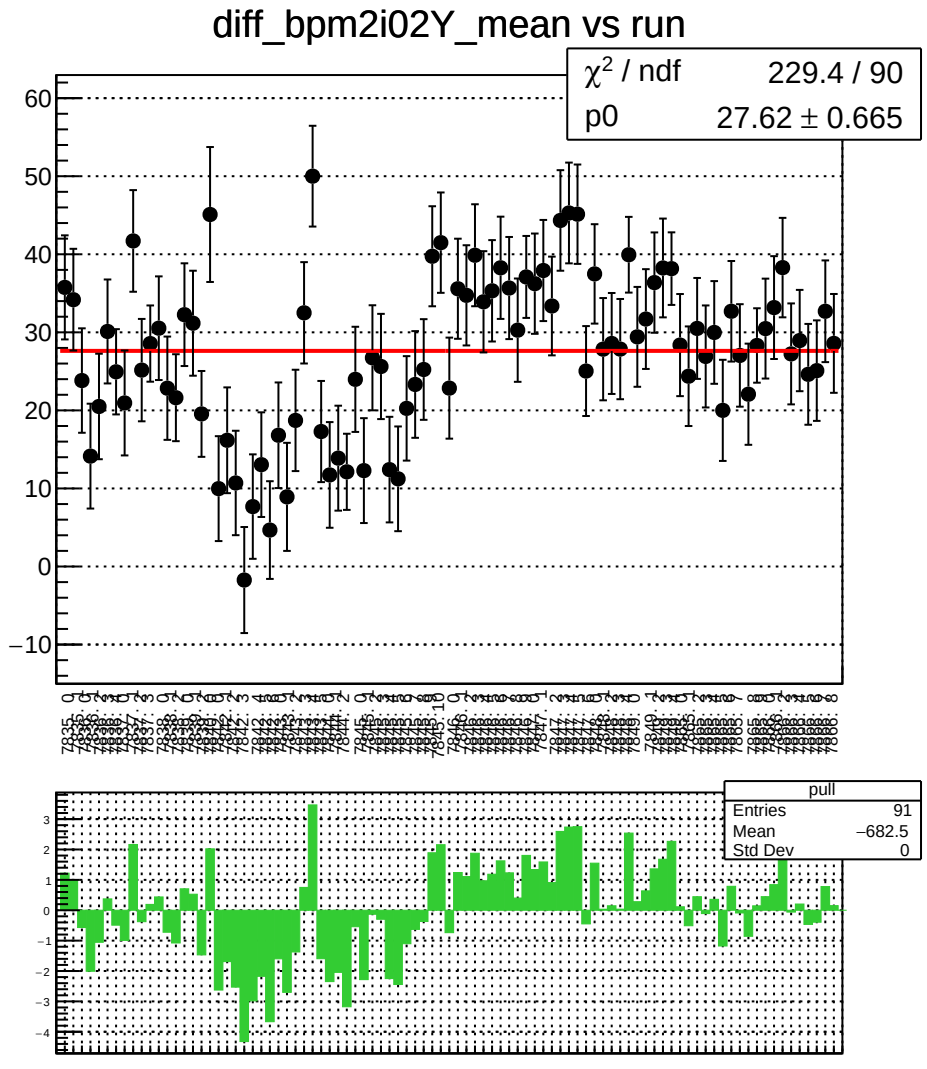

pull1D
Entries 91
Mean 0.008017
Std Dev 0.9124

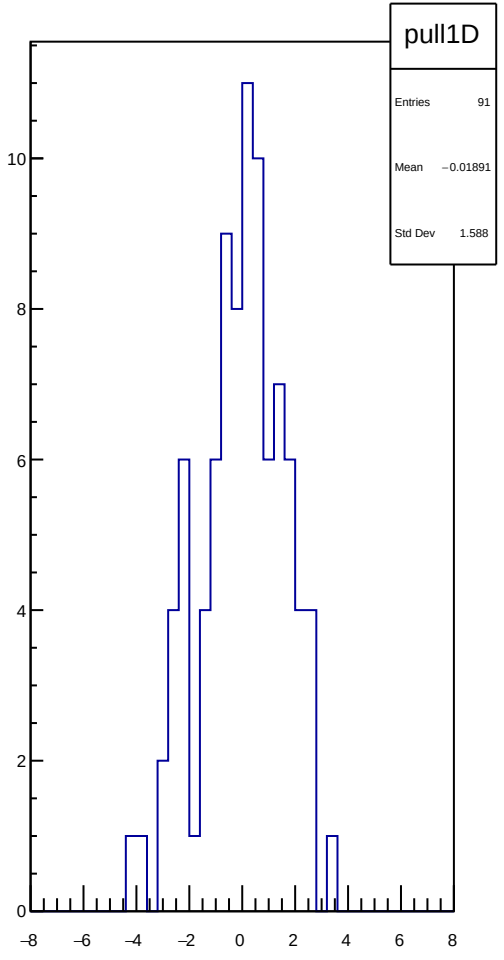

diff_bpm2i01Y_rms vs run
χ² / ndf 1905 / 90
p0 647.4 ± 0.489
700
680
660
640
620
600

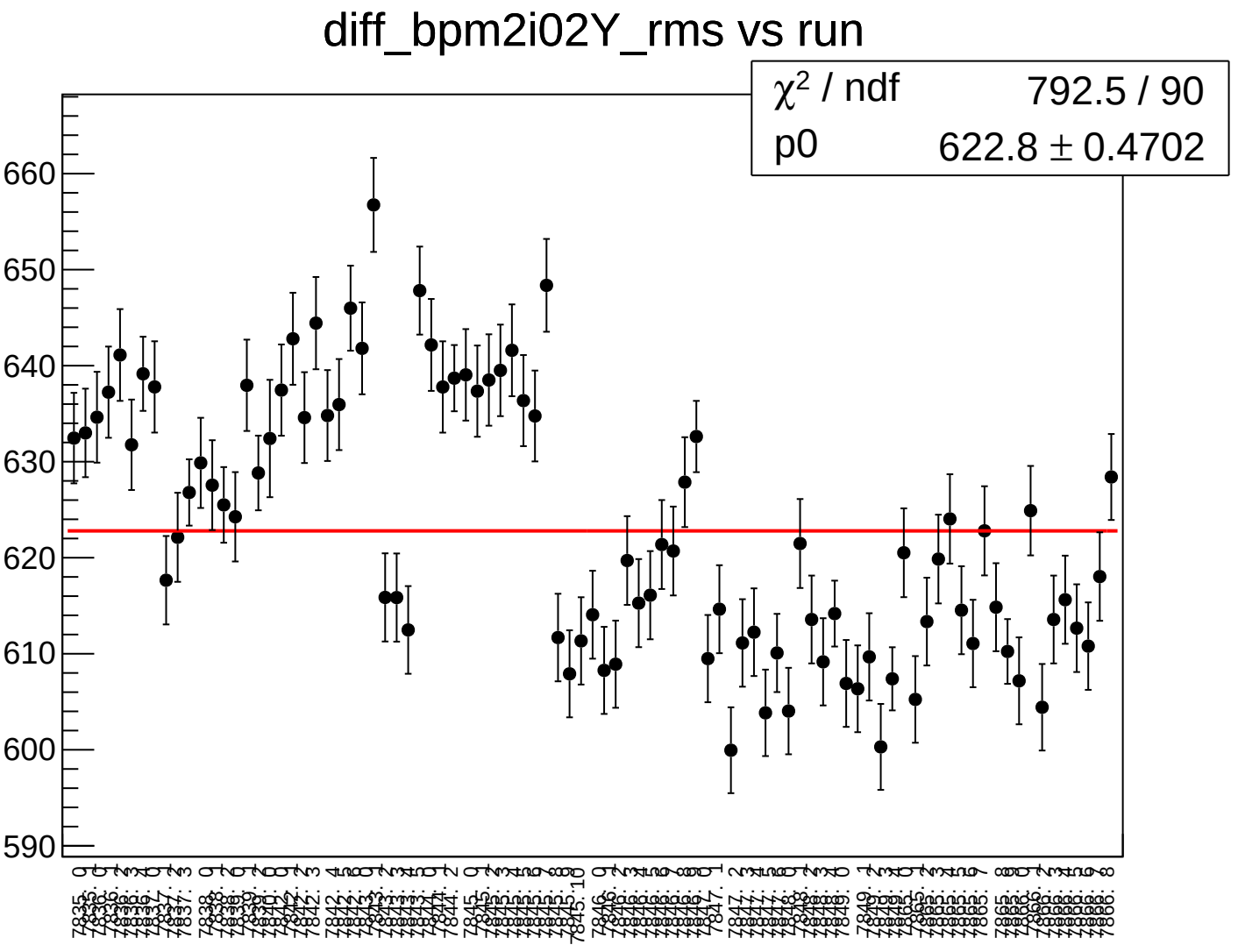

diff_bpm2i02X_mean vs run
χ² / ndf 297.9 / 90
p0 −32.48 ± 0.6772
pull
Entries 91
Mean −903.9
Std Dev 0

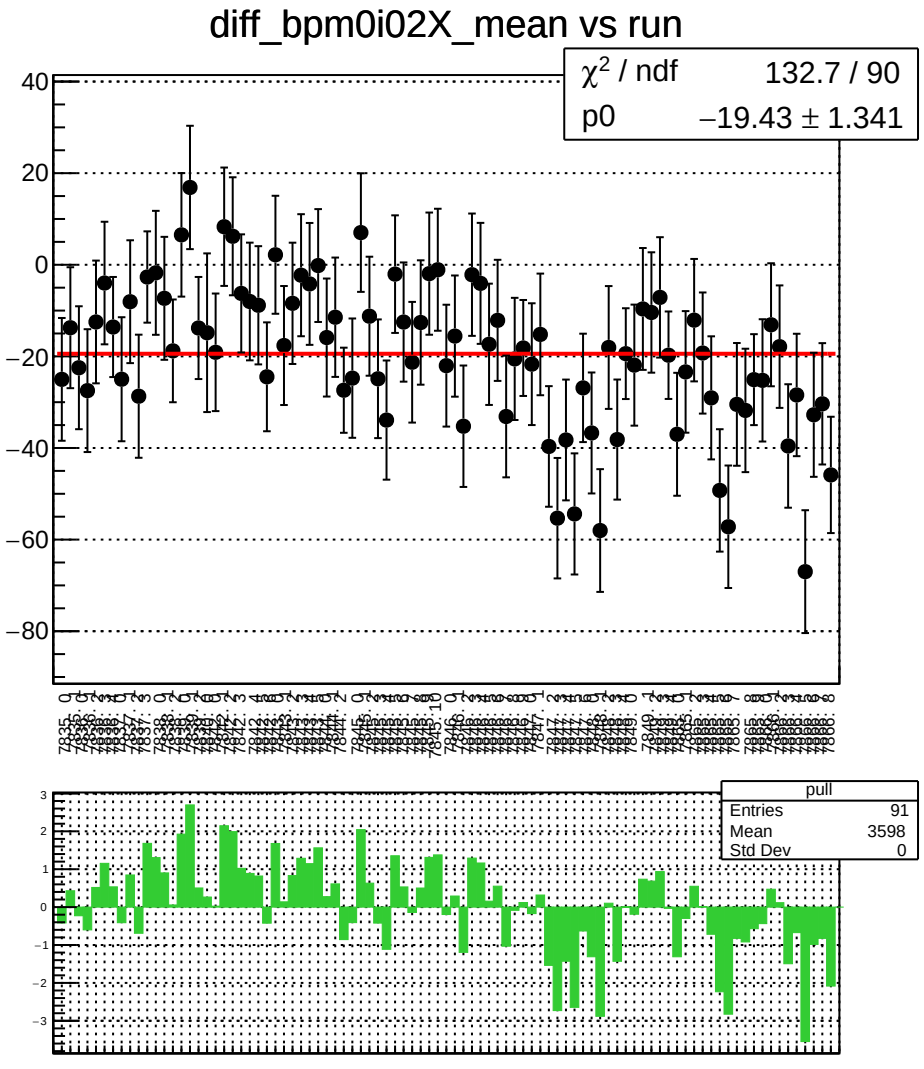

pull1D
Entries 91
Mean 0.03571
Std Dev 1.809

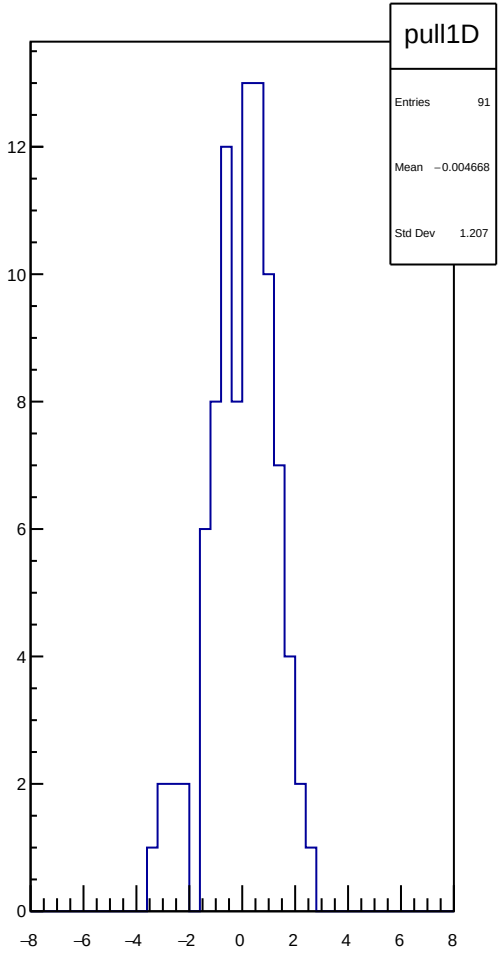

diff_bpm2i02X_rms vs run
χ² / ndf 1279 / 90
p0 634.2 ± 0.4789
680
670
660
650
640
630
620
610
600

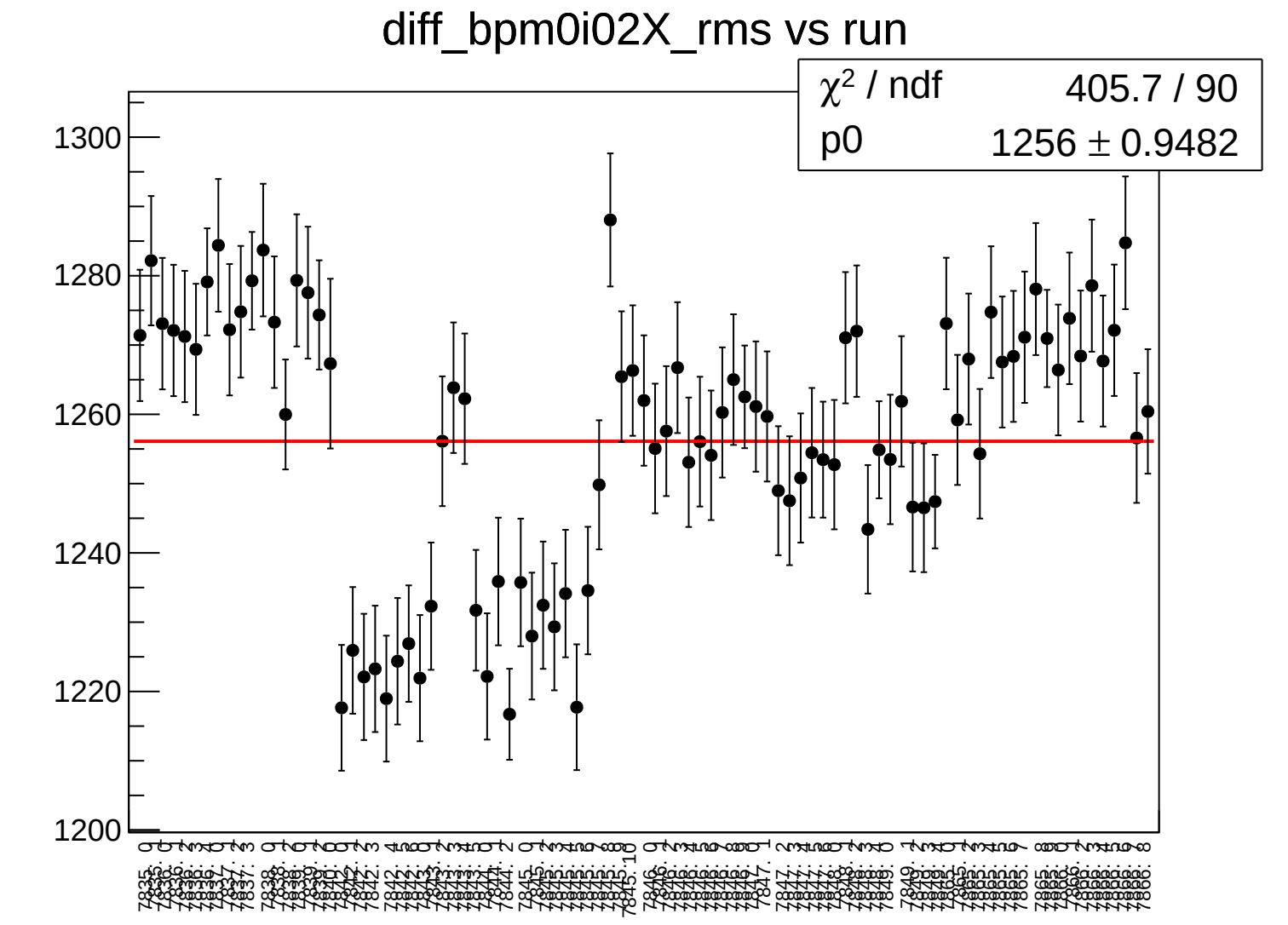

diff_bpm2i02Y_mean vs run
χ² / ndf 229.4 / 90
p0 27.62 ± 0.665
pull
Entries 91
Mean −682.5
Std Dev 0

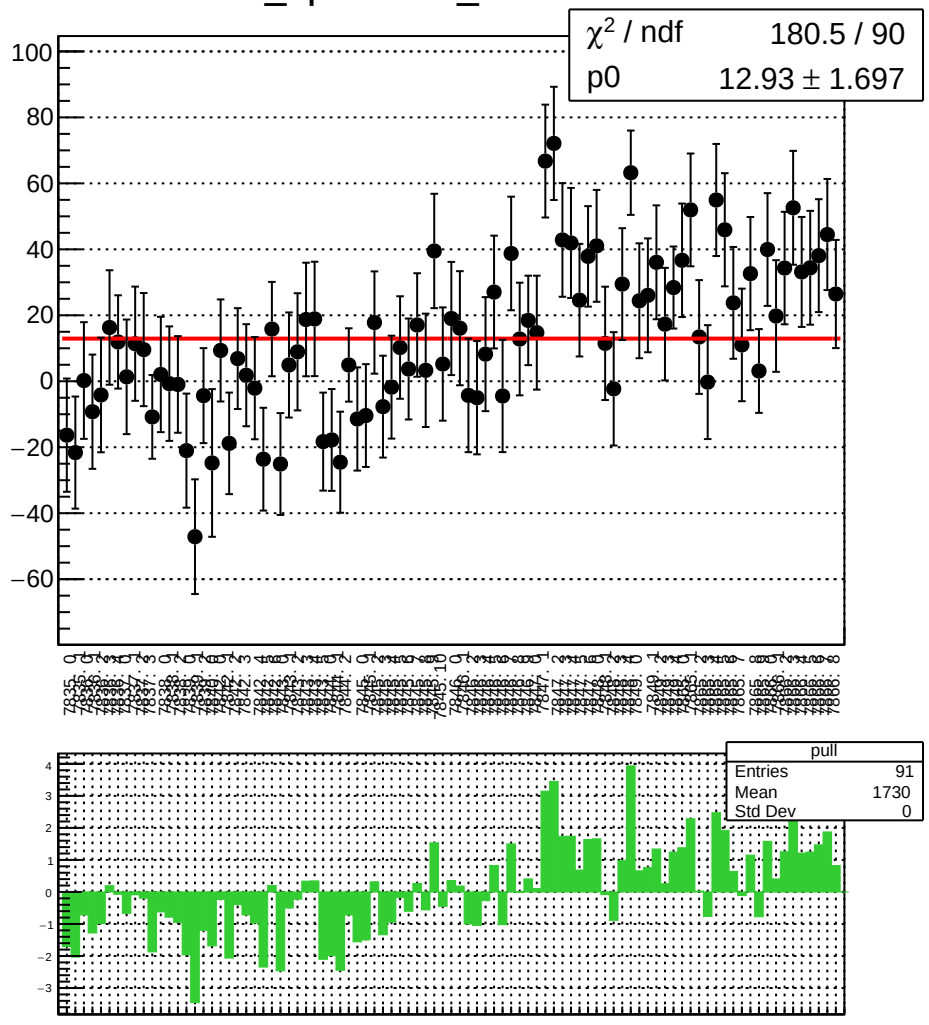

pull1D
Entries 91
Mean −0.01891
Std Dev 1.588

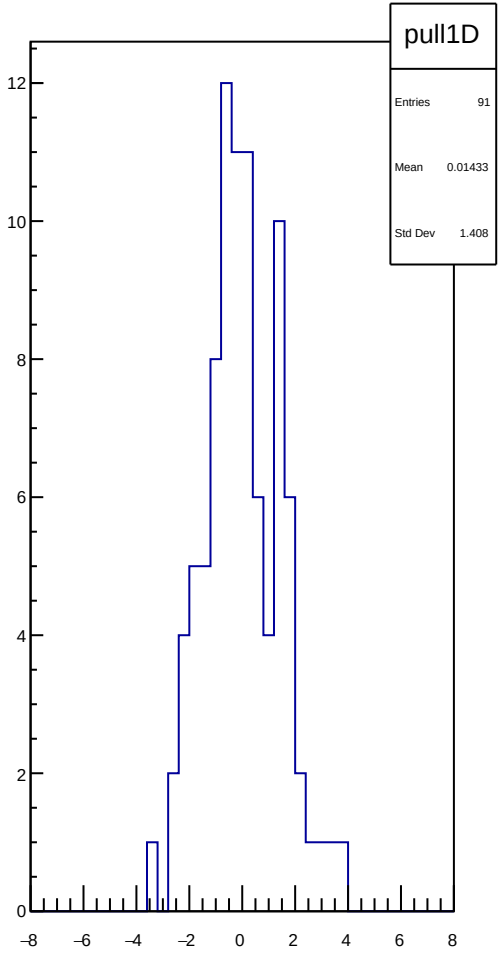

diff_bpm2i02Y_rms vs run
χ² / ndf 792.5 / 90
p0 622.8 ± 0.4702
660
650
640
630
620
610
600
590

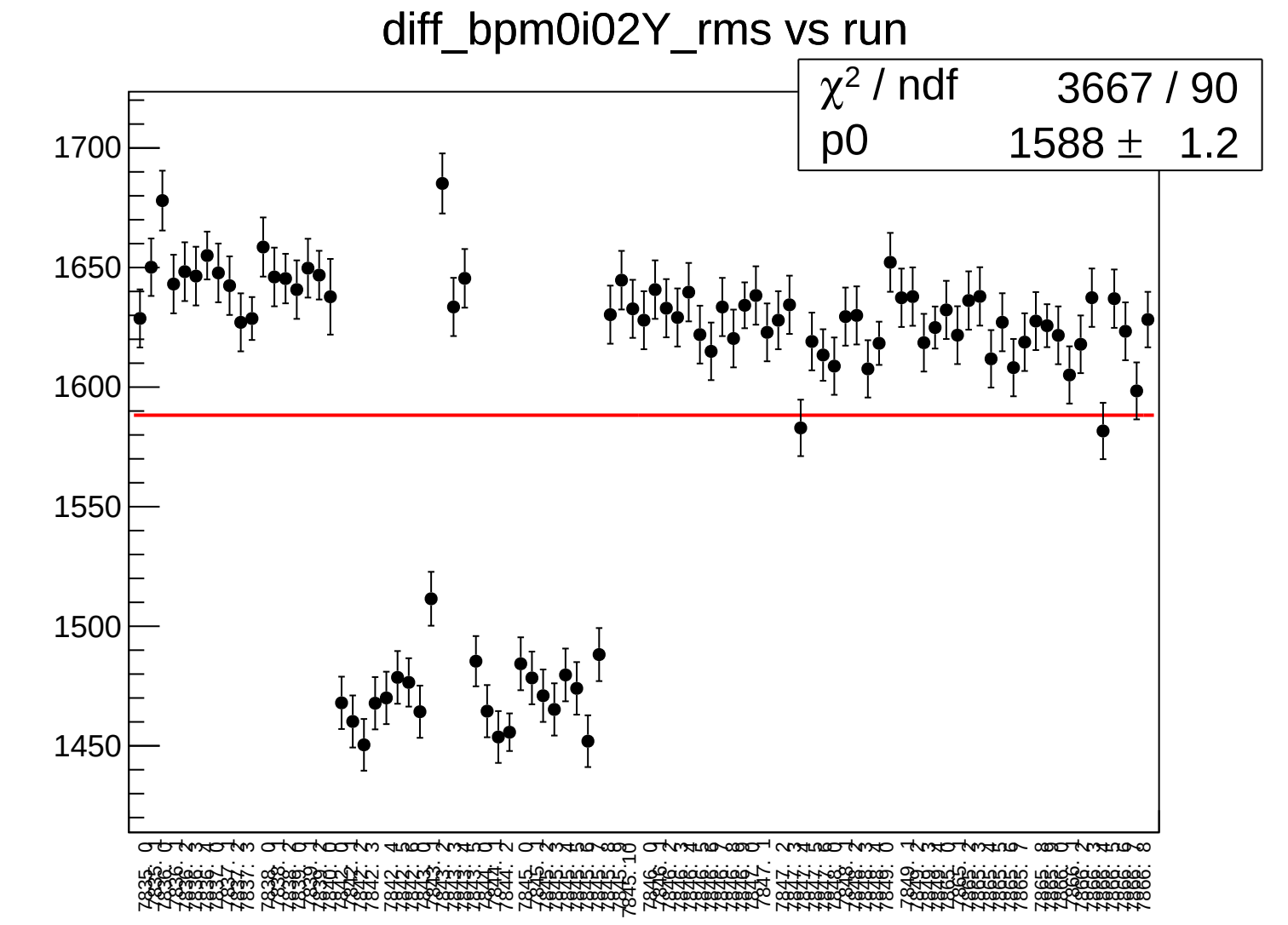

diff_bpm0i02X_mean vs run
χ² / ndf 132.7 / 90
p0 −19.43 ± 1.341
pull
Entries 91
Mean 3598
Std Dev 0

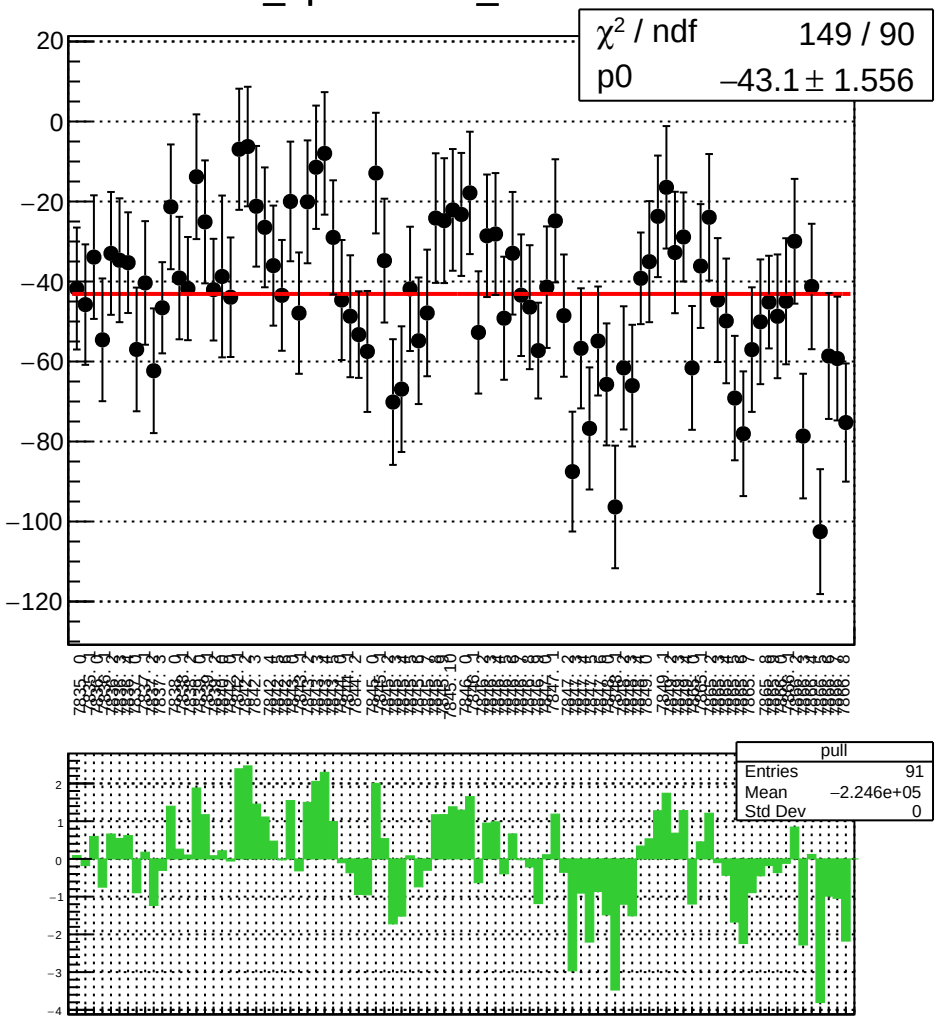

pull1D
Entries 91
Mean −0.004668
Std Dev 1.207

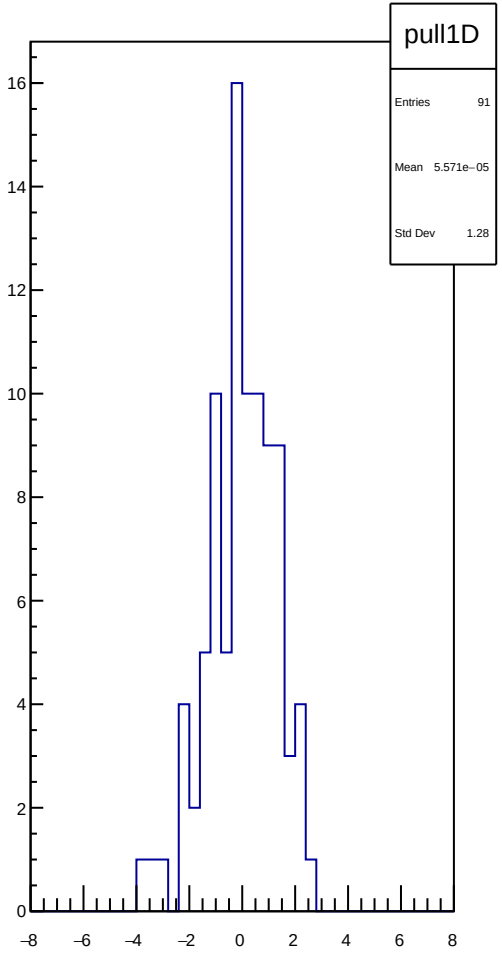

diff_bpm0i02X_rms vs run
χ² / ndf 405.7 / 90
p0 1256 ± 0.9482
1300
1280
1260
1240
1220
1200

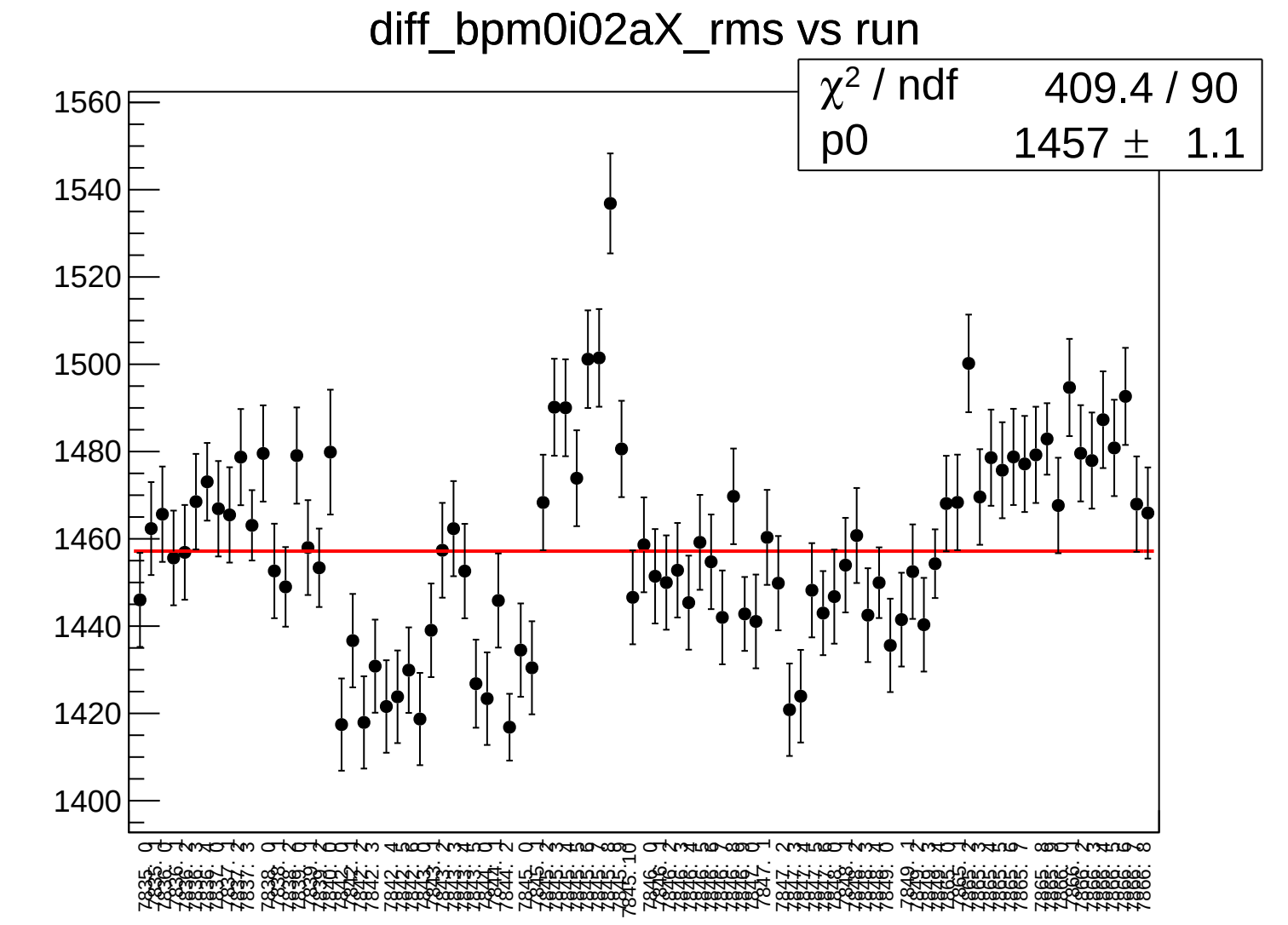

diff_bpm0i02Y_mean vs run
χ² / ndf 180.5 / 90
p0 12.93 ± 1.697
pull
Entries 91
Mean 1730
Std Dev 0

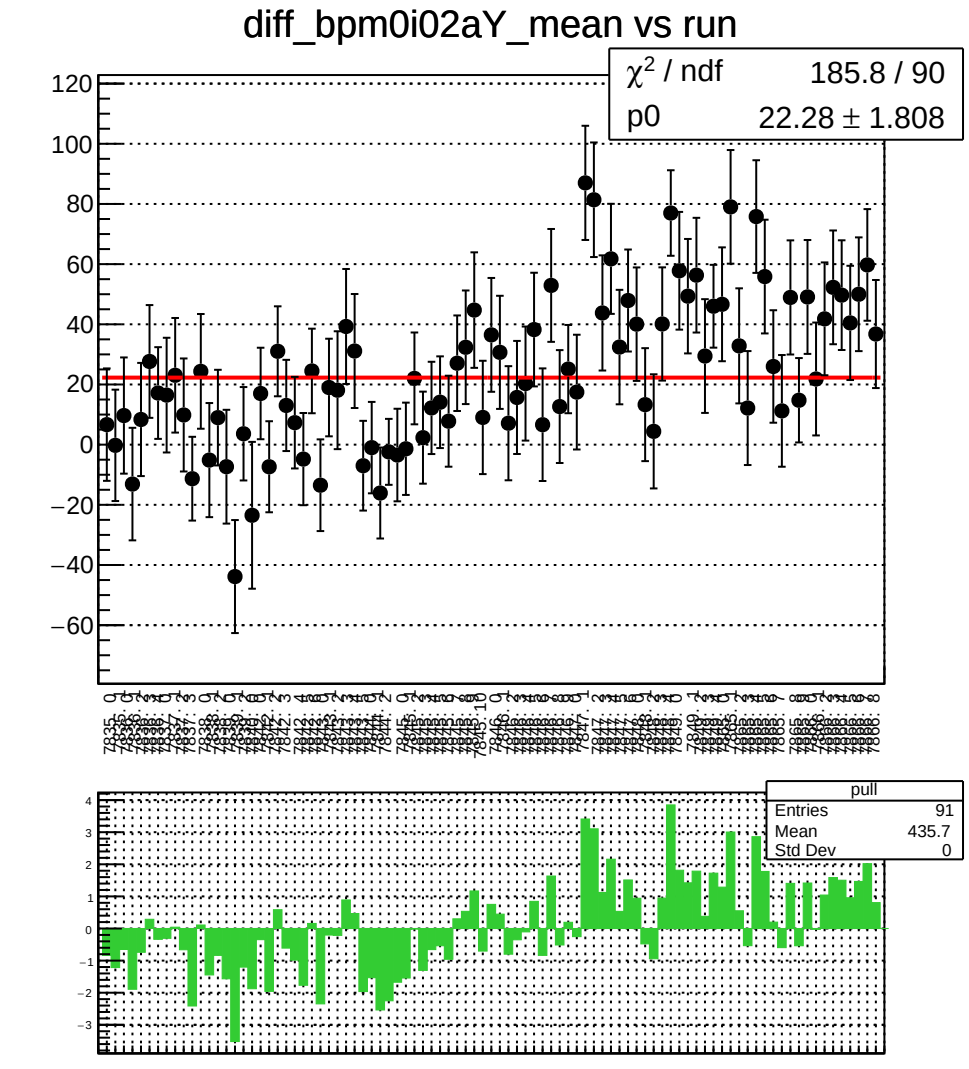

pull1D
Entries 91
Mean 0.01433
Std Dev 1.408

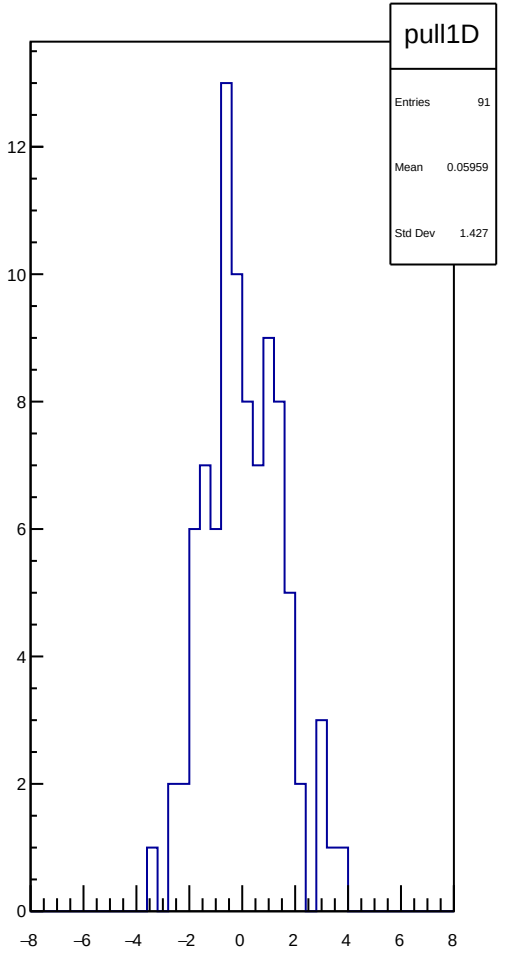

diff_bpm0i02Y_rms vs run
χ² / ndf 3667 / 90
p0 1588 ± 1.2
1700
1650
1600
1550
1500
1450

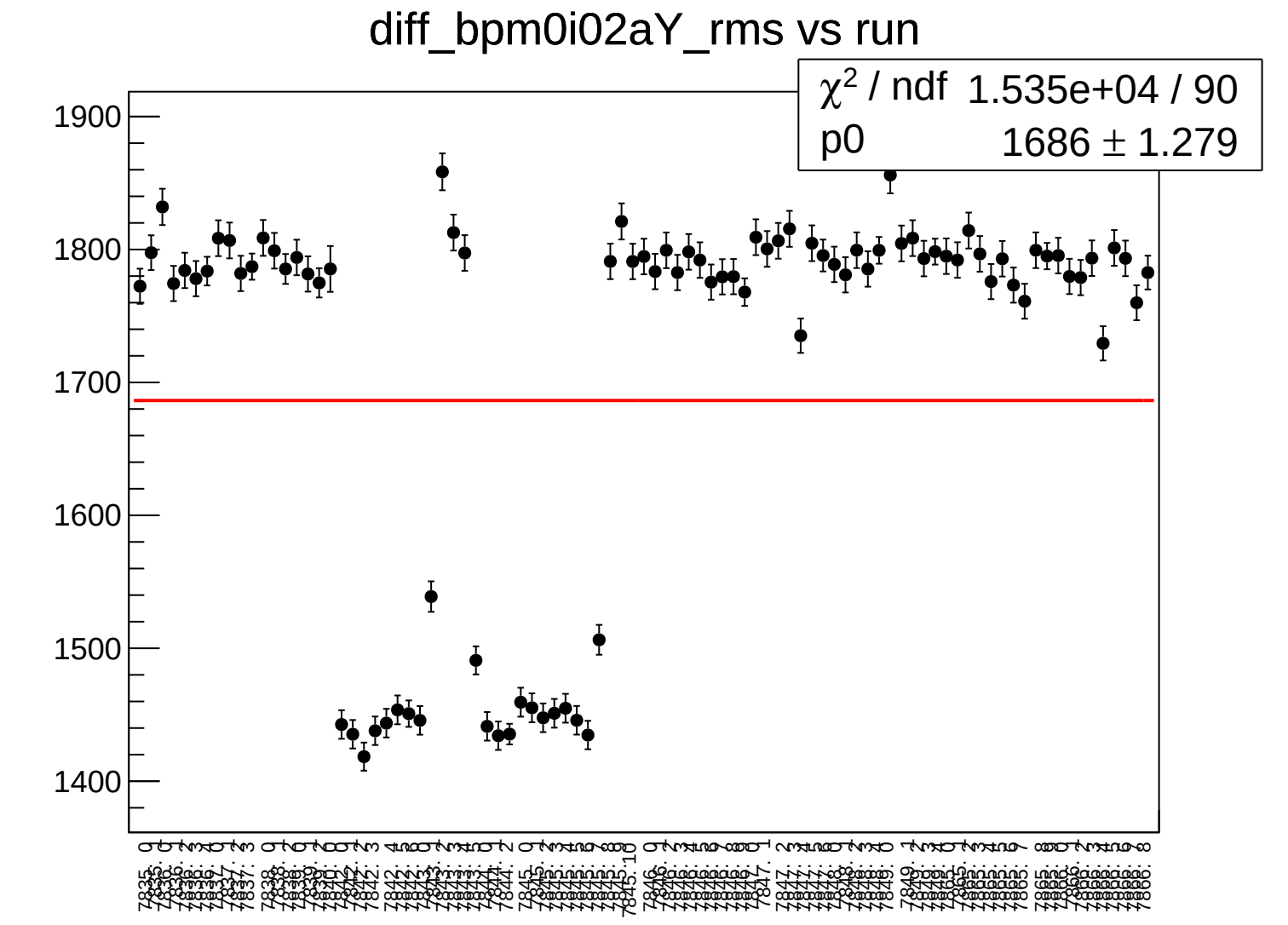

diff_bpm0i02aX_mean vs run
χ² / ndf 149 / 90
p0 −43.1 ± 1.556
pull
Entries 91
Mean −2.246e+05
Std Dev 0

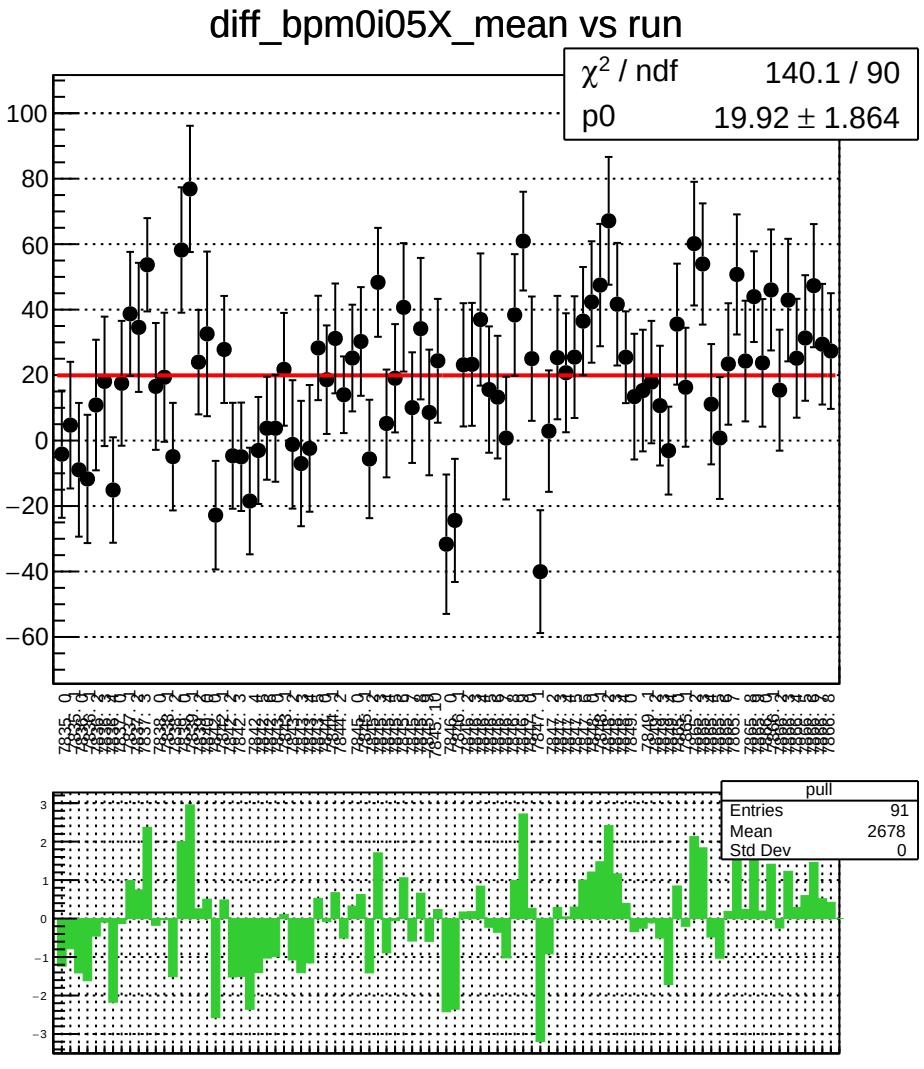

pull1D
Entries 91
Mean 5.571e−05
Std Dev 1.28

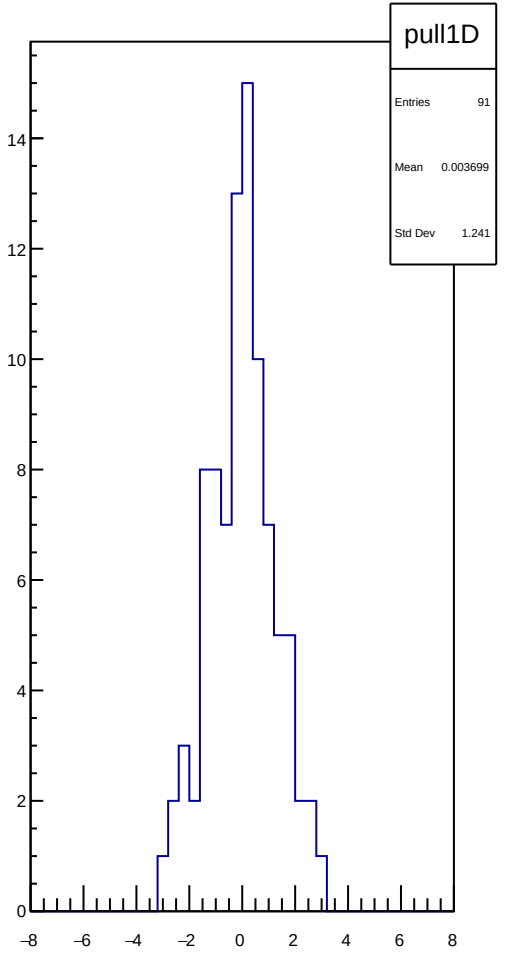

diff_bpm0i02aX_rms vs run
χ² / ndf 409.4 / 90
p0 1457 ± 1.1
1560
1540
1520
1500
1480
1460
1440
1420
1400

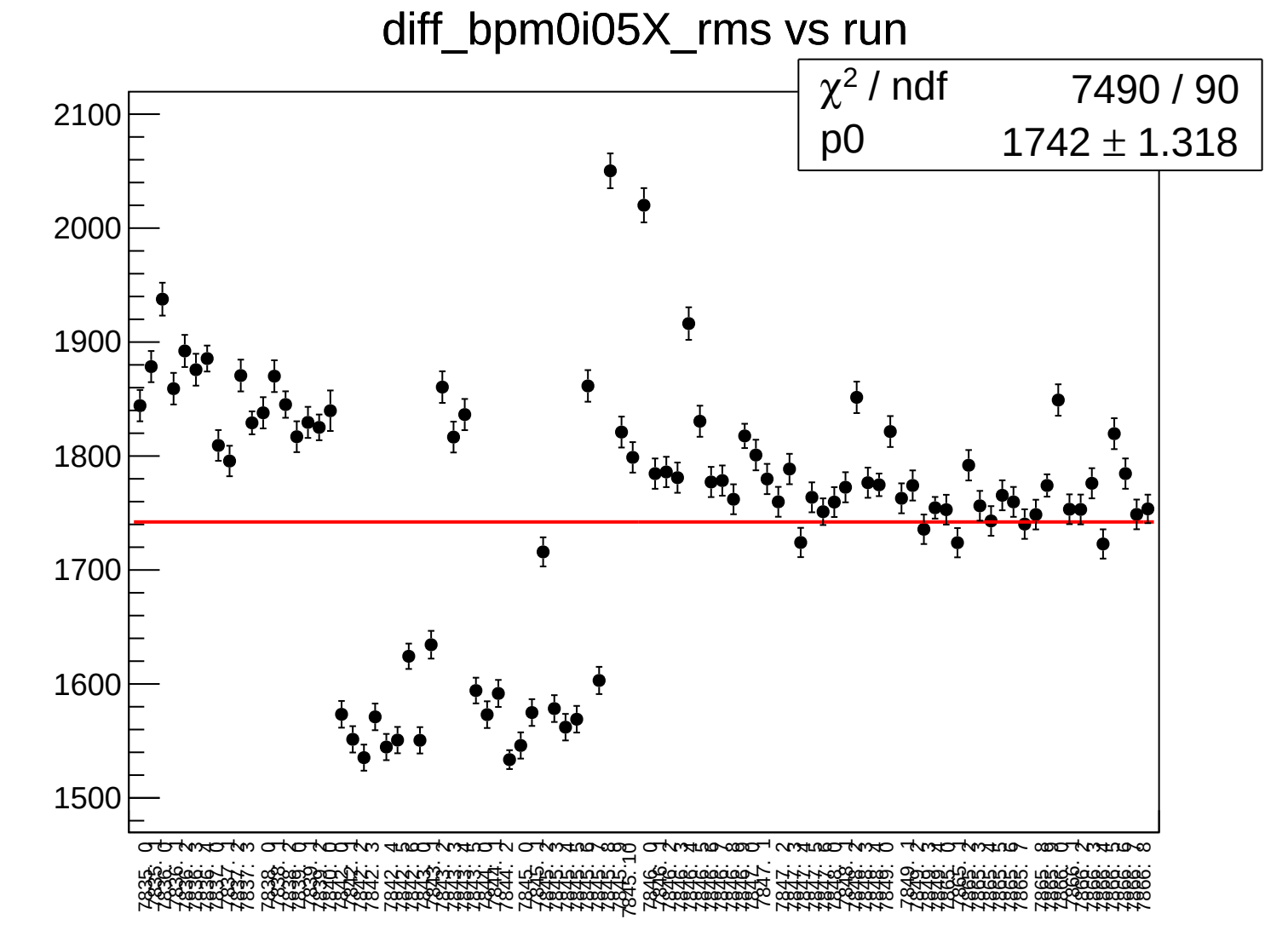

diff_bpm0i02aY_mean vs run
χ² / ndf 185.8 / 90
p0 22.28 ± 1.808
pull
Entries 91
Mean 435.7
Std Dev 0

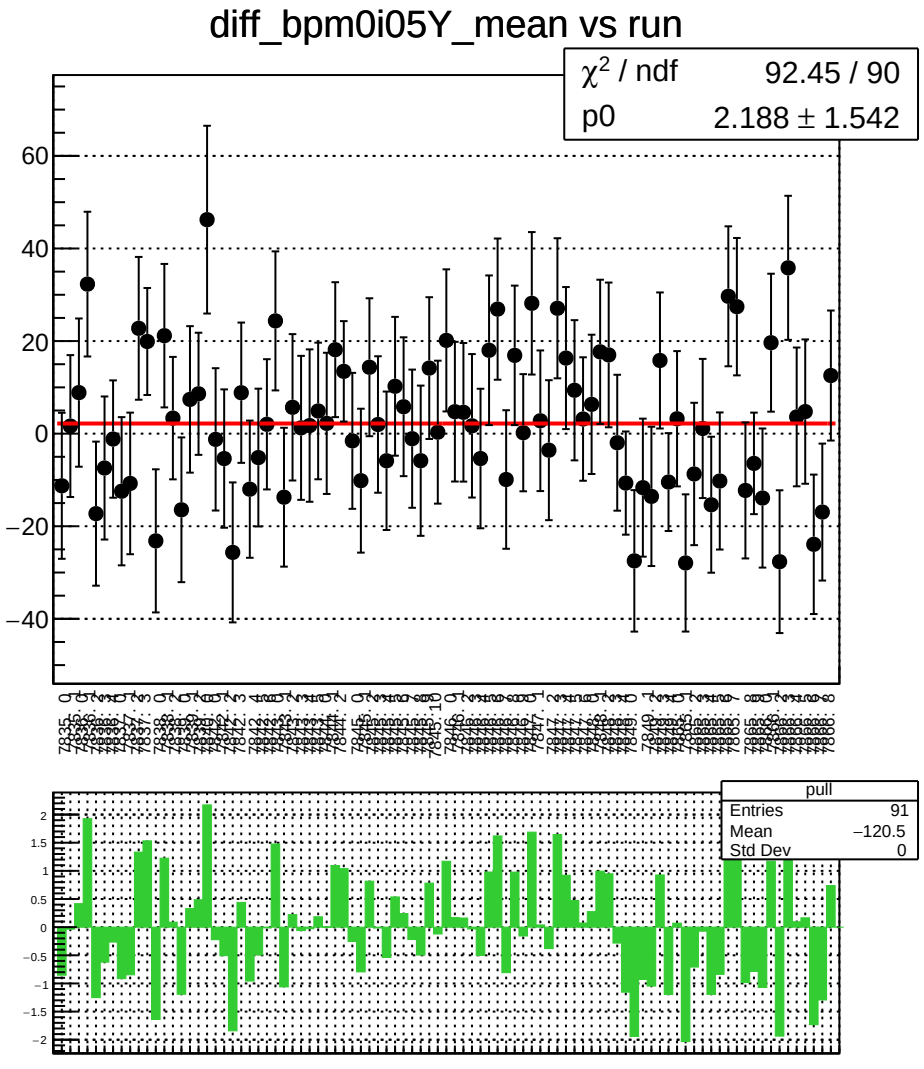

pull1D
Entries 91
Mean 0.05959
Std Dev 1.427

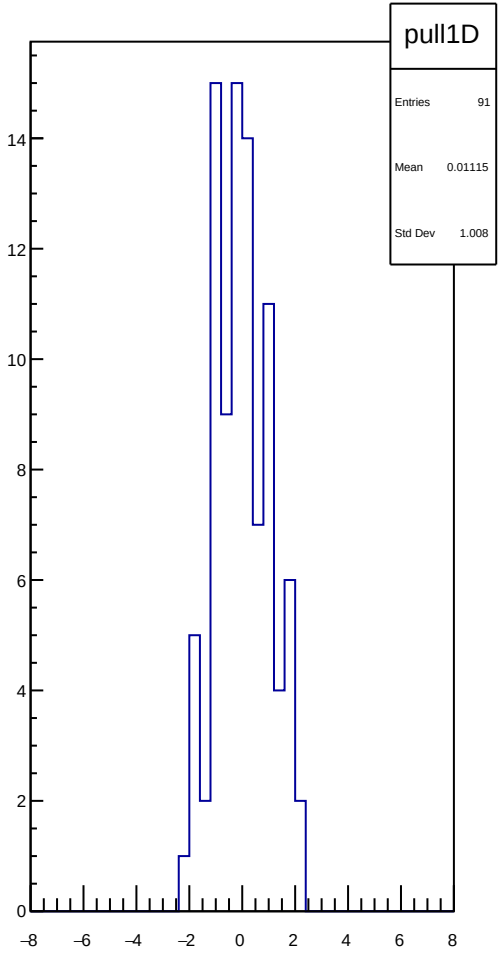

diff_bpm0i02aY_rms vs run
χ² / ndf 1.535e+04 / 90
p0 1686 ± 1.279
1900
1800
1700
1600
1500
1400

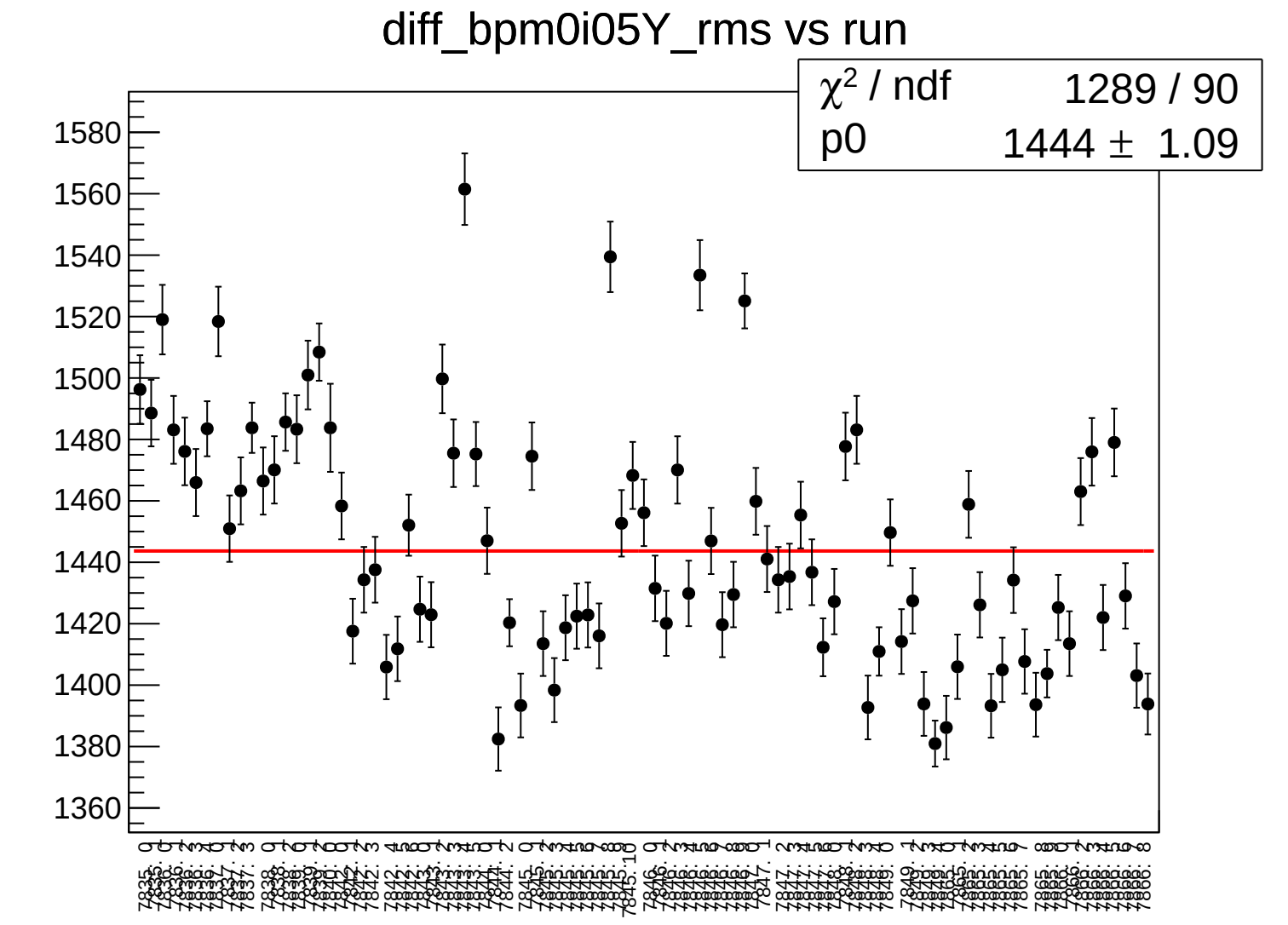

diff_bpm0i05X_mean vs run
χ² / ndf 140.1 / 90
p0 19.92 ± 1.864
pull
Entries 91
Mean 2678
Std Dev 0

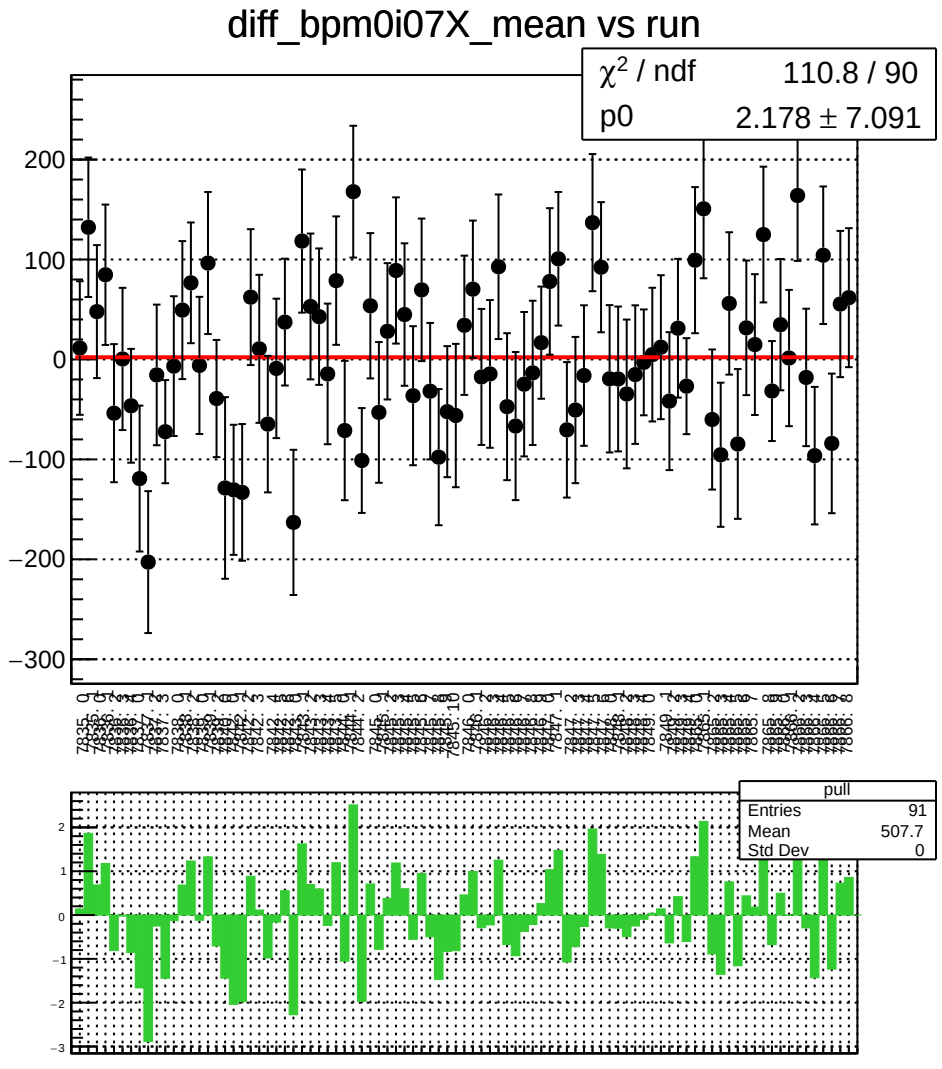

pull1D
Entries 91
Mean 0.003699
Std Dev 1.241

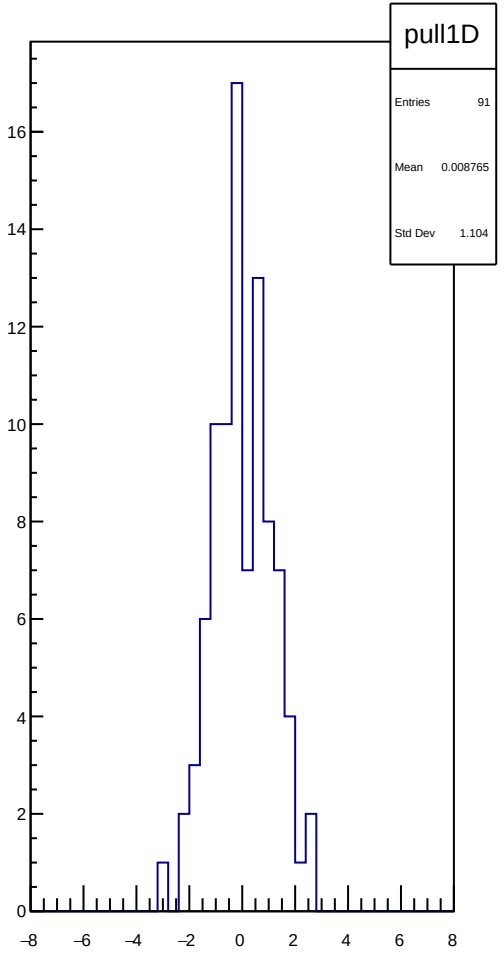

diff_bpm0i05X_rms vs run
χ² / ndf 7490 / 90
p0 1742 ± 1.318
2100
2000
1900
1800
1700
1600
1500

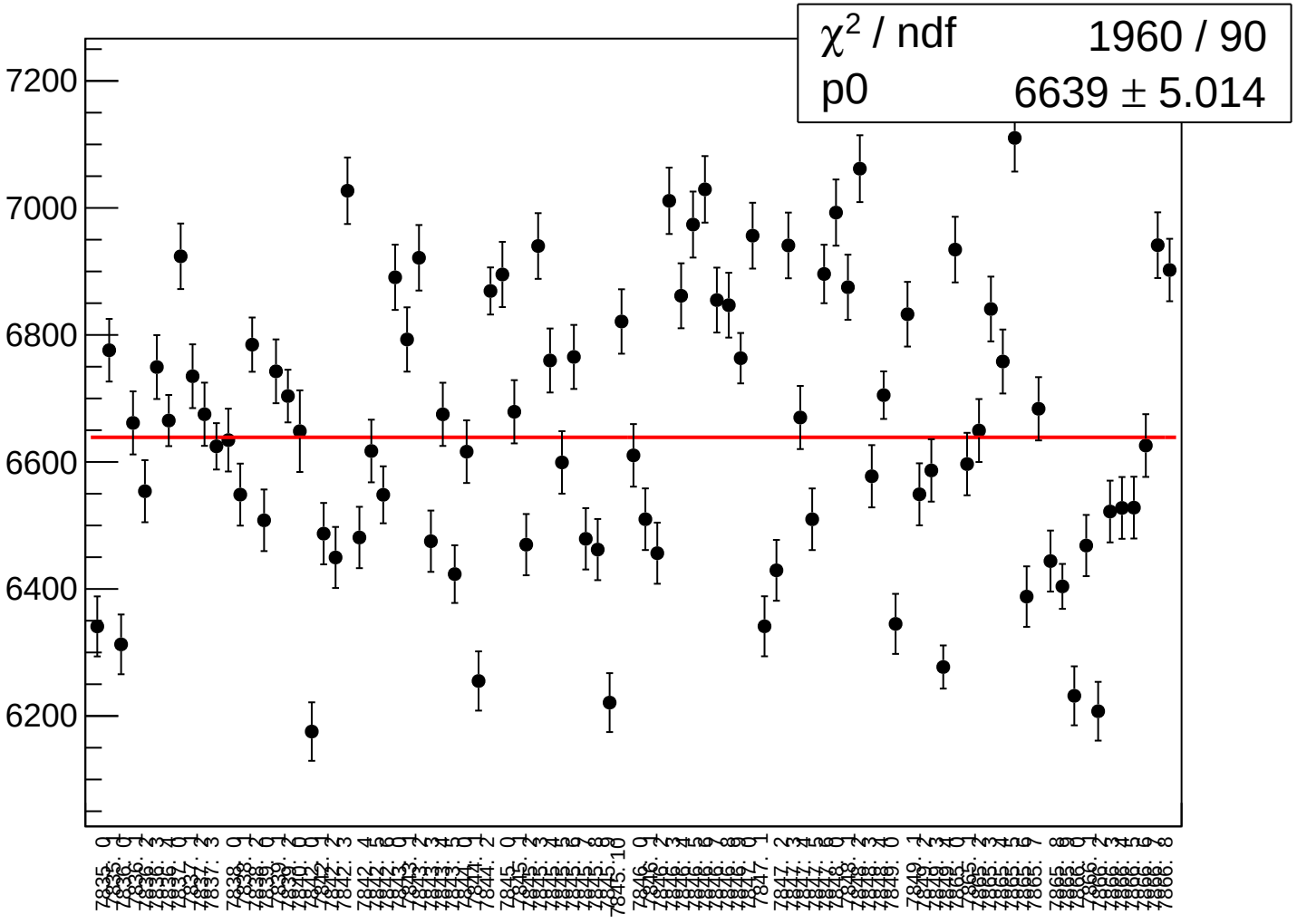

diff_bpm0i05Y_mean vs run
χ² / ndf 92.45 / 90
p0 2.188 ± 1.542
pull
Entries 91
Mean −120.5
Std Dev 0

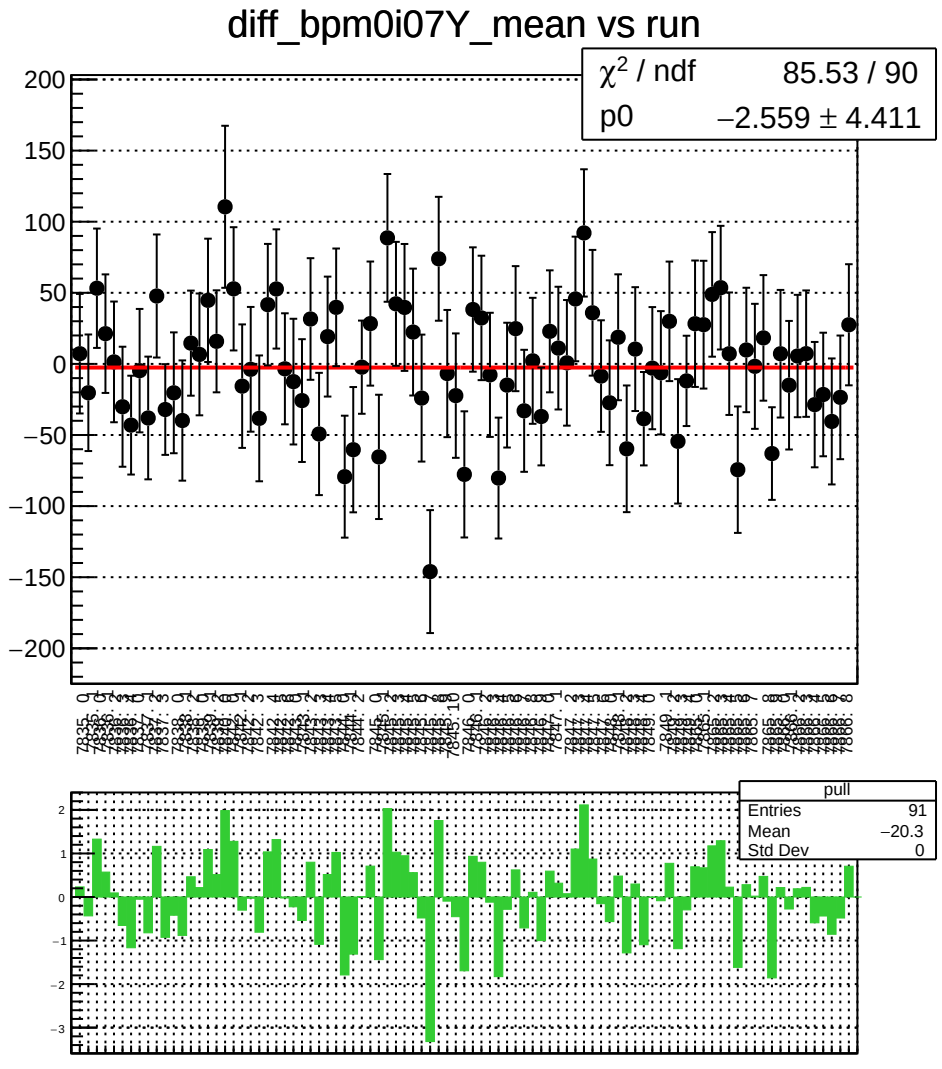

pull1D
Entries 91
Mean 0.01115
Std Dev 1.008

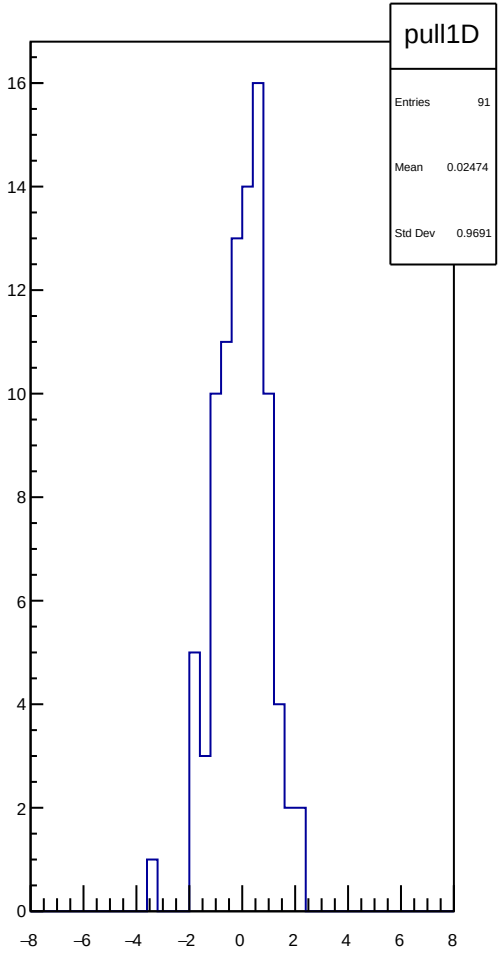

diff_bpm0i05Y_rms vs run
χ² / ndf 1289 / 90
p0 1444 ± 1.09
1580
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360

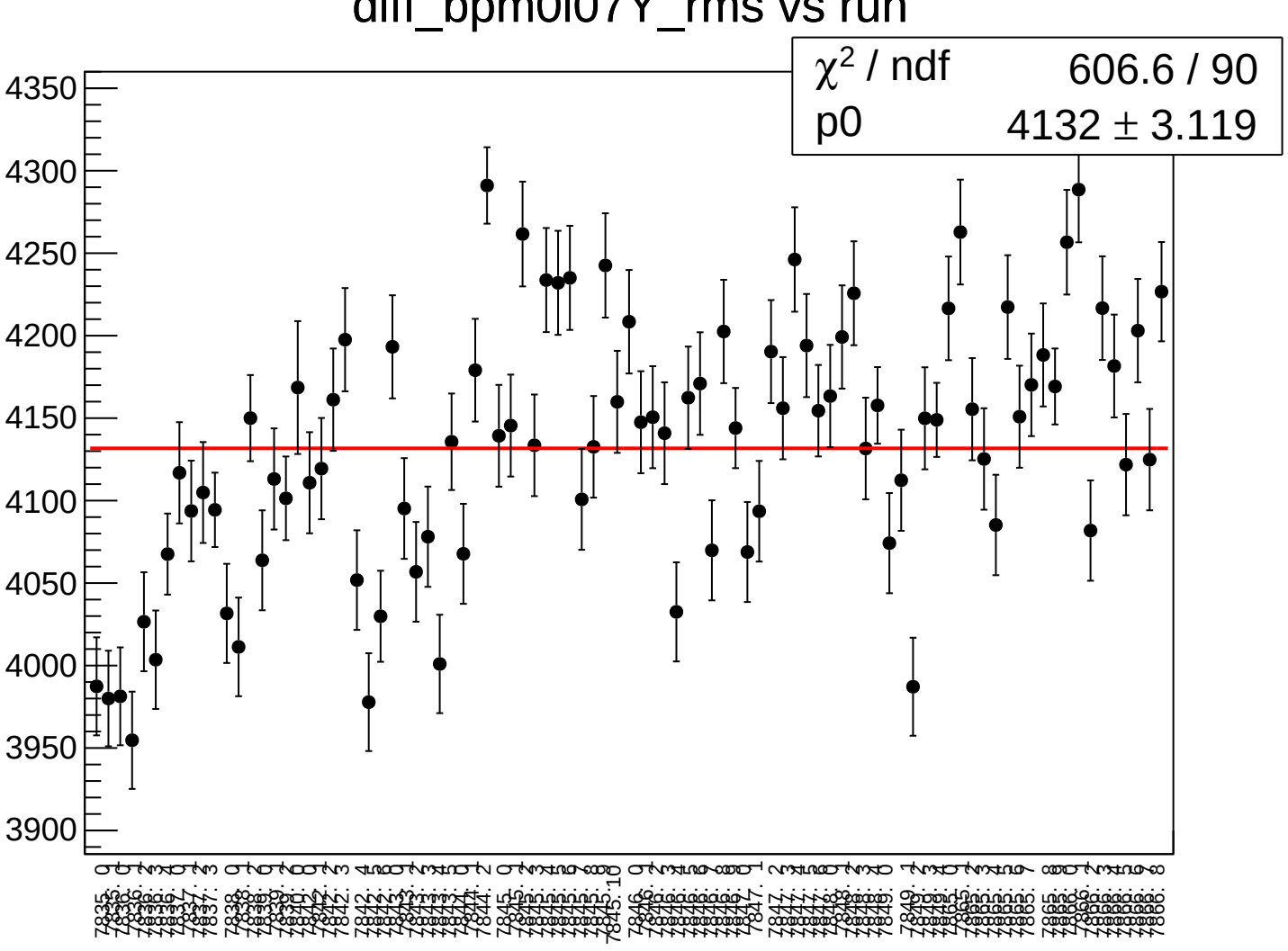

diff_bpm0i07X_mean vs run
χ² / ndf 110.8 / 90
p0 2.178 ± 7.091
pull
Entries 91
Mean 507.7
Std Dev 0

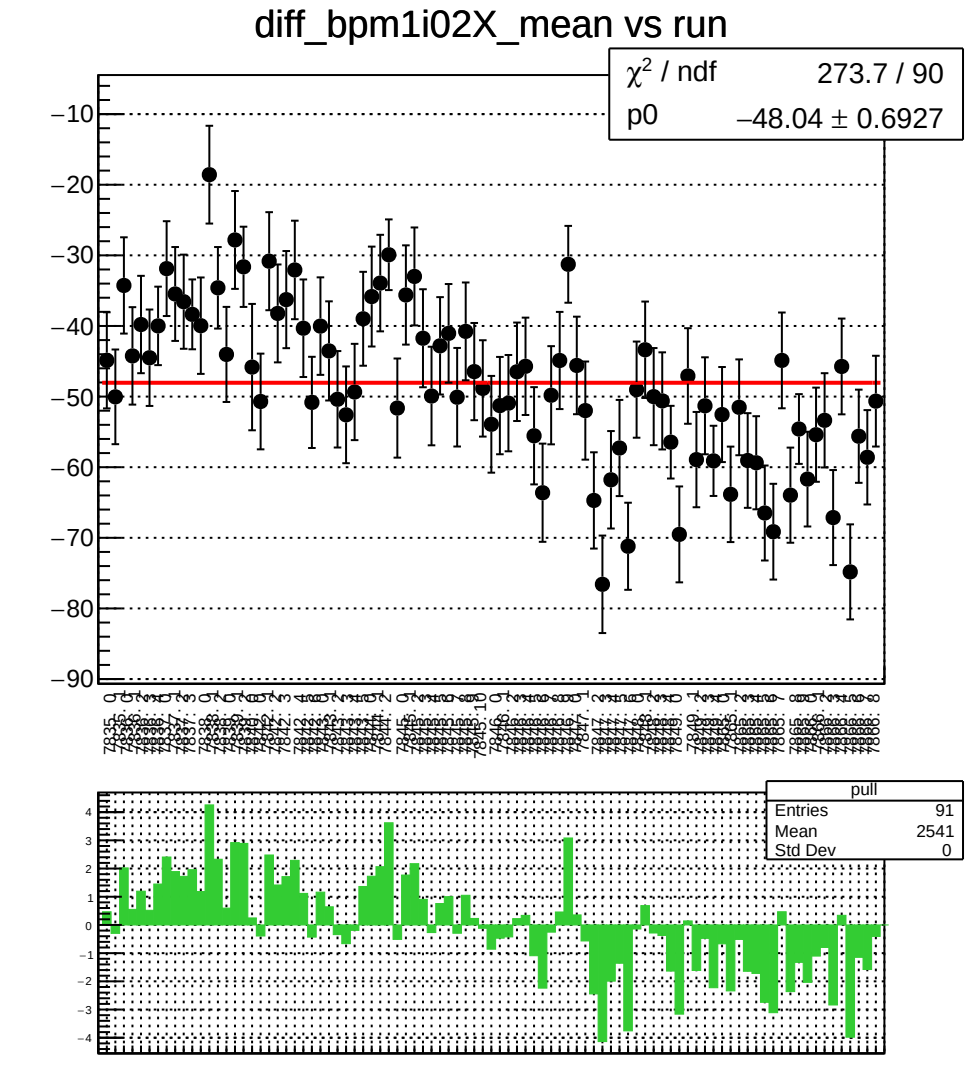

pull1D
Entries 91
Mean 0.008765
Std Dev 1.104

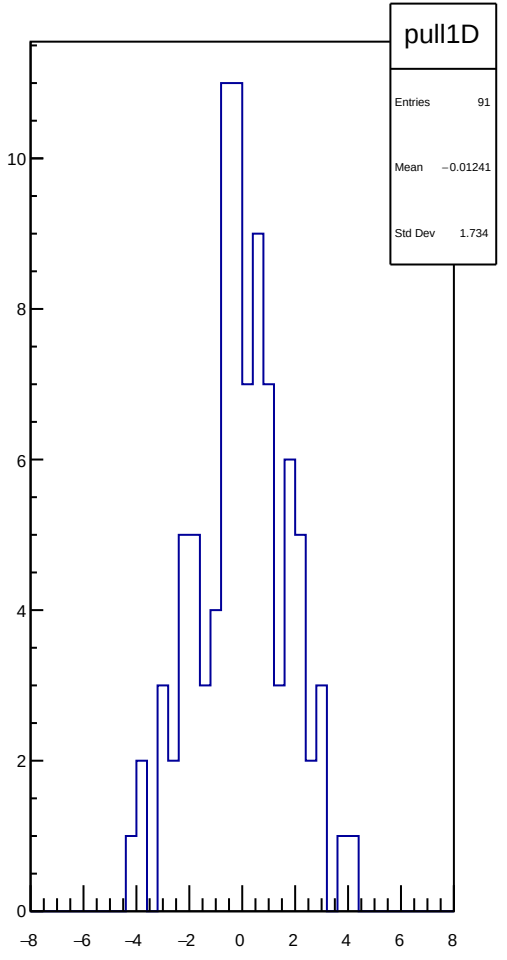

diff_bpm0i07X_rms vs run
χ^2 / ndf 1960 / 90
p0 6639 ± 5.014
7200
7000
6800
6600
6400
6200

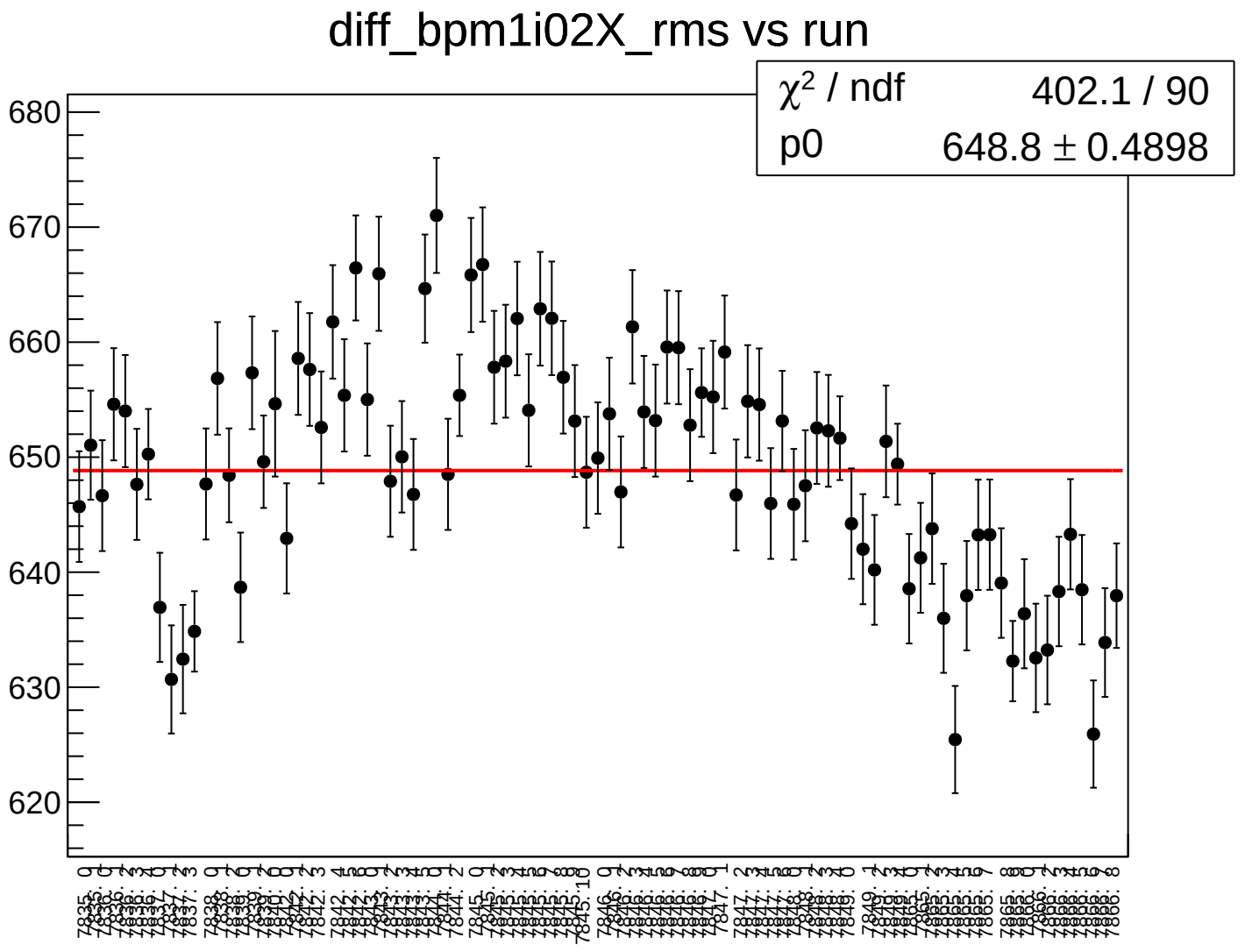

diff_bpm0i07Y_mean vs run
χ² / ndf 85.53 / 90
p0 −2.559 ± 4.411
pull
Entries 91
Mean −20.3
Std Dev 0

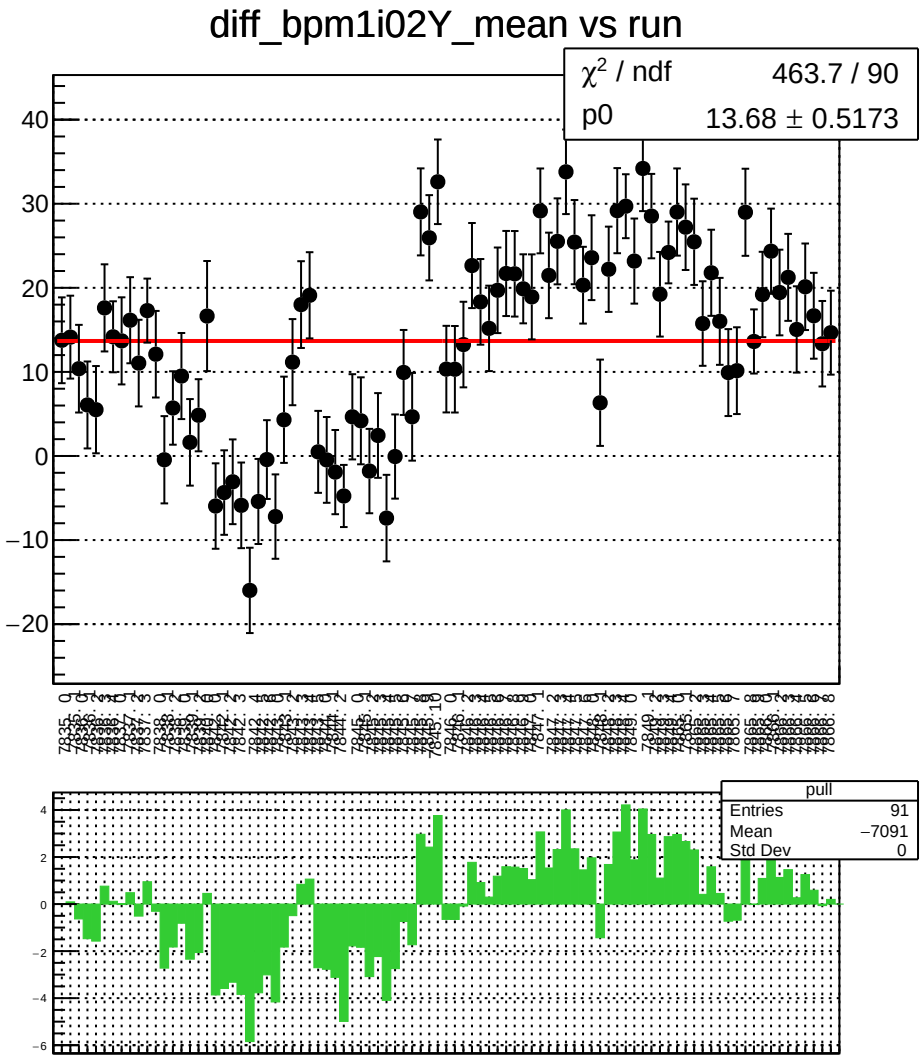

pull1D
Entries 91
Mean 0.02474
Std Dev 0.9691

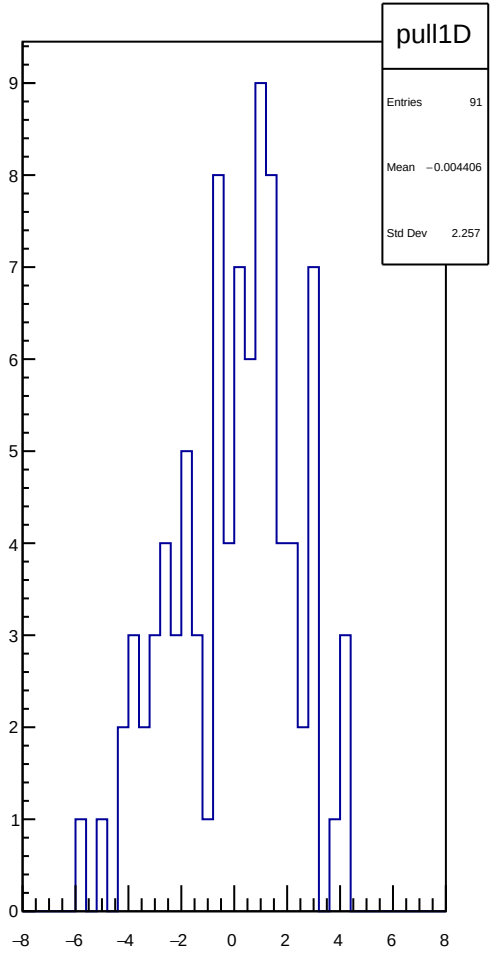

diff_bpm0i07Y_rms vs run
χ² / ndf 606.6 / 90
p0 4132 ± 3.119
4350
4300
4250
4200
4150
4100
4050
4000
3950
3900

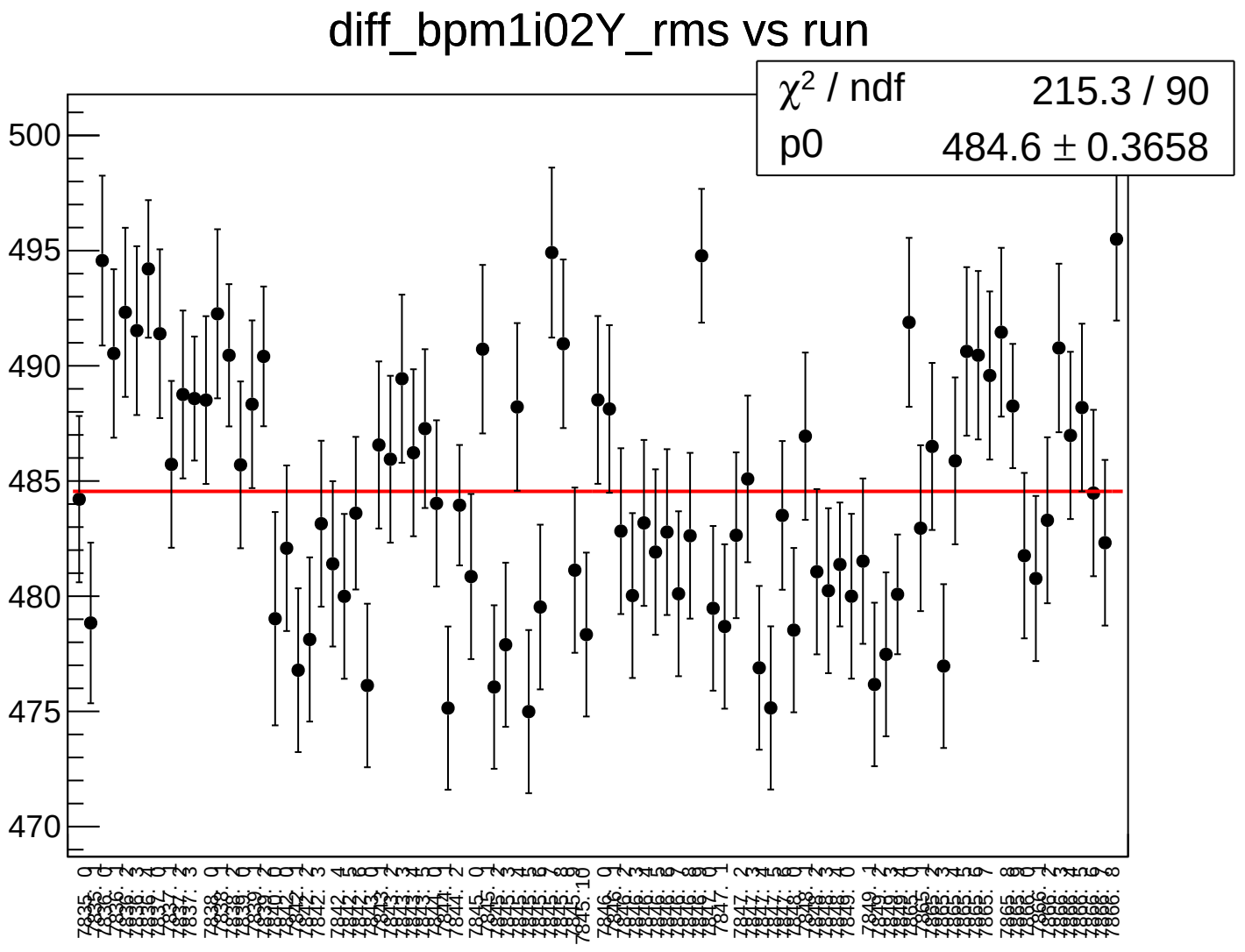

diff_bpm1i02X_mean vs run
χ² / ndf 273.7 / 90
p0 −48.04 ± 0.6927
pull
Entries 91
Mean 2541
Std Dev 0

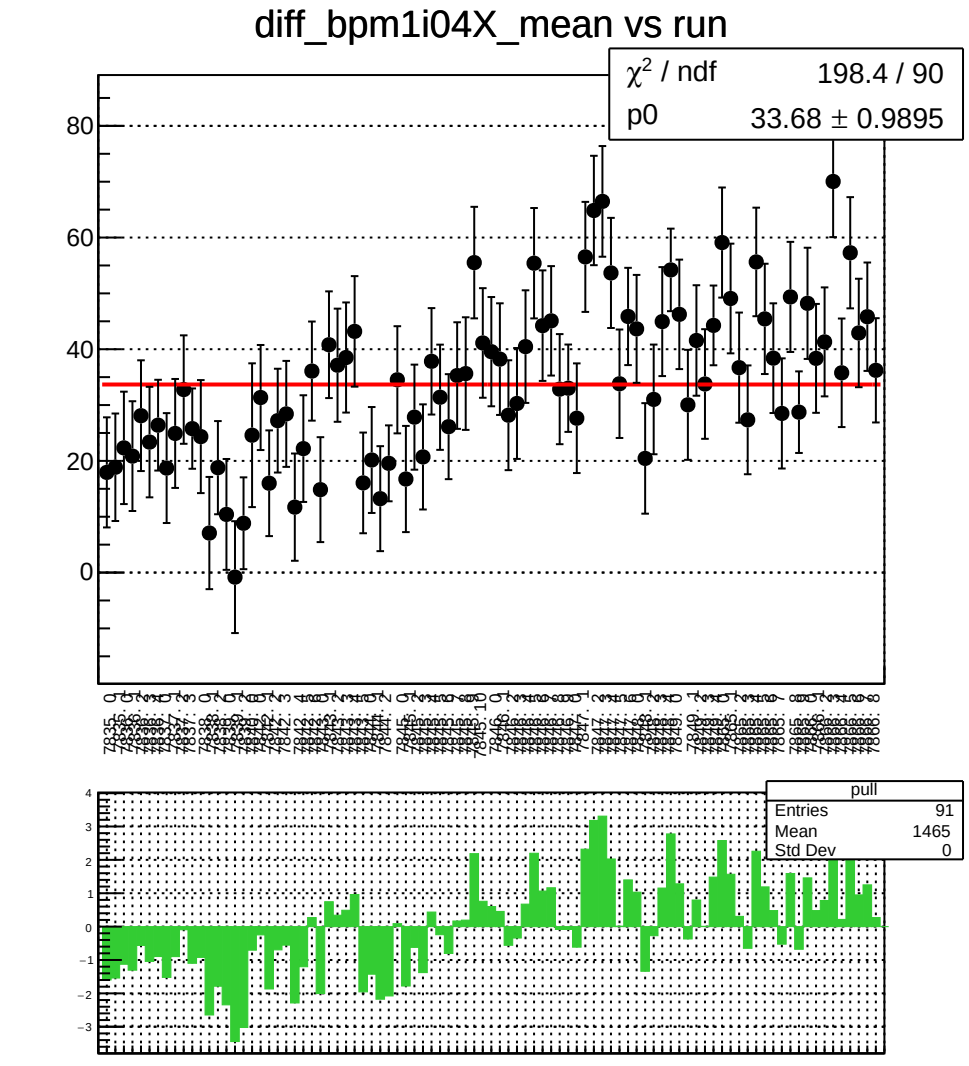

pull1D
Entries 91
Mean −0.01241
Std Dev 1.734

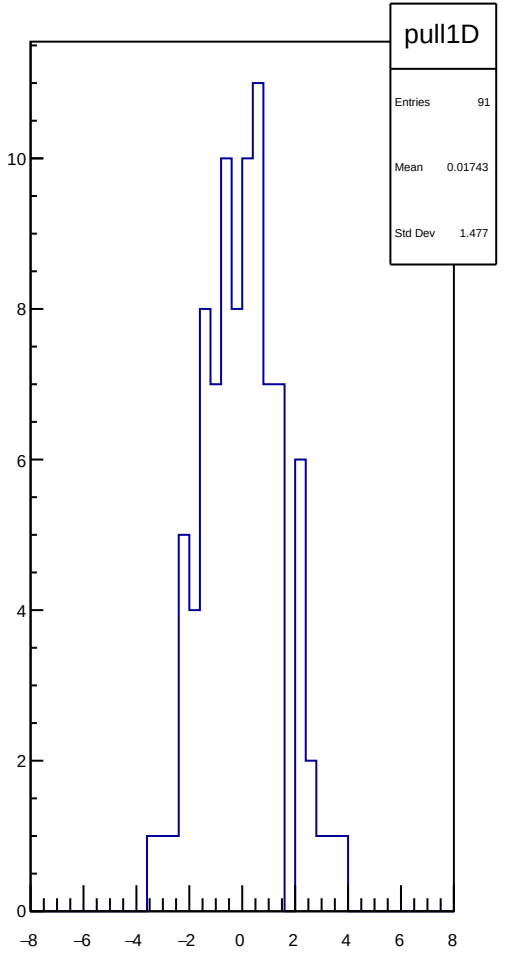

diff_bpm1i02X_rms vs run
χ² / ndf 402.1 / 90
p0 648.8 ± 0.4898
680
670
660
650
640
630
620

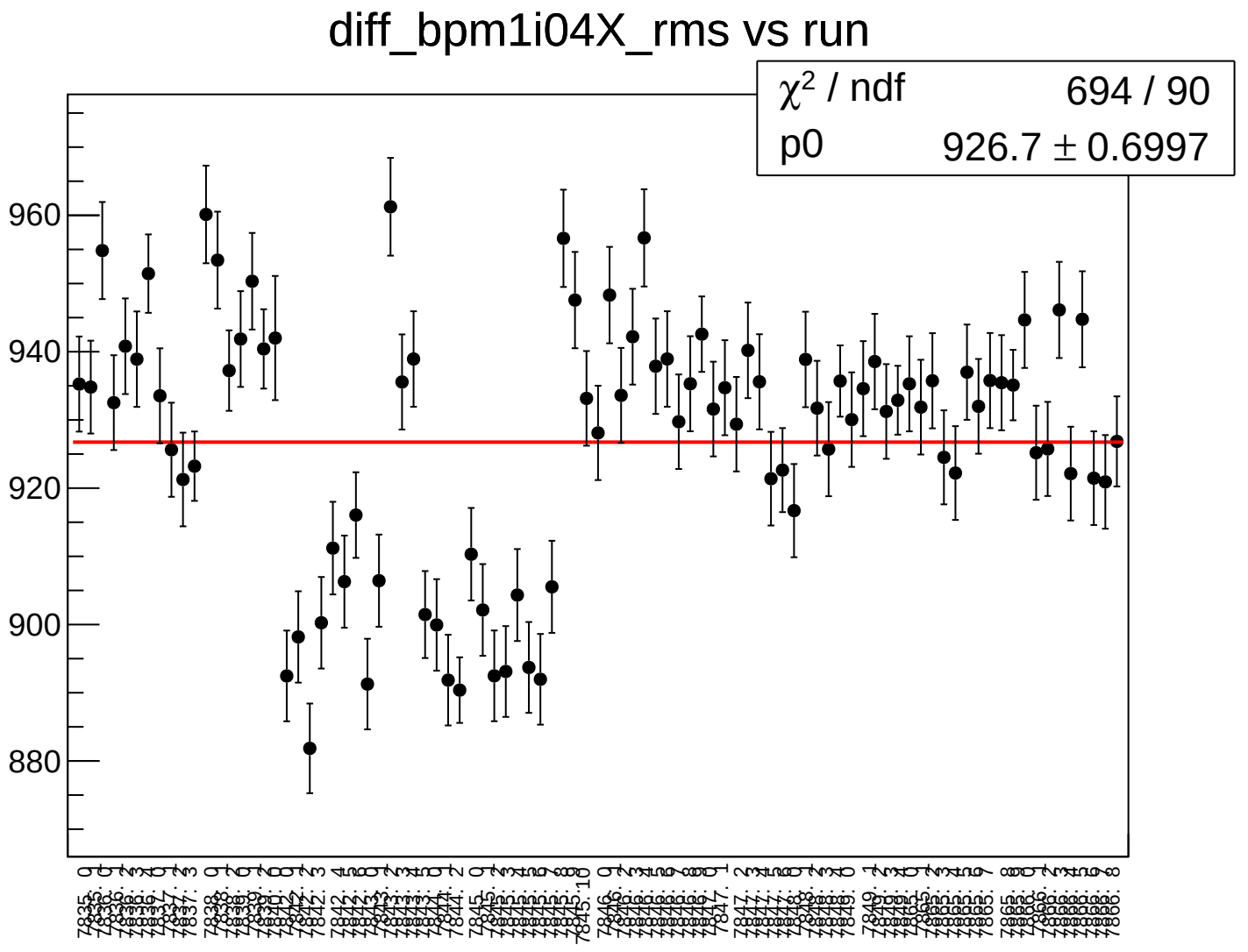

diff_bpm1i02Y_mean vs run
χ^2 / ndf 463.7 / 90
p0 13.68 ± 0.5173
pull
Entries 91
Mean −7091
Std Dev 0

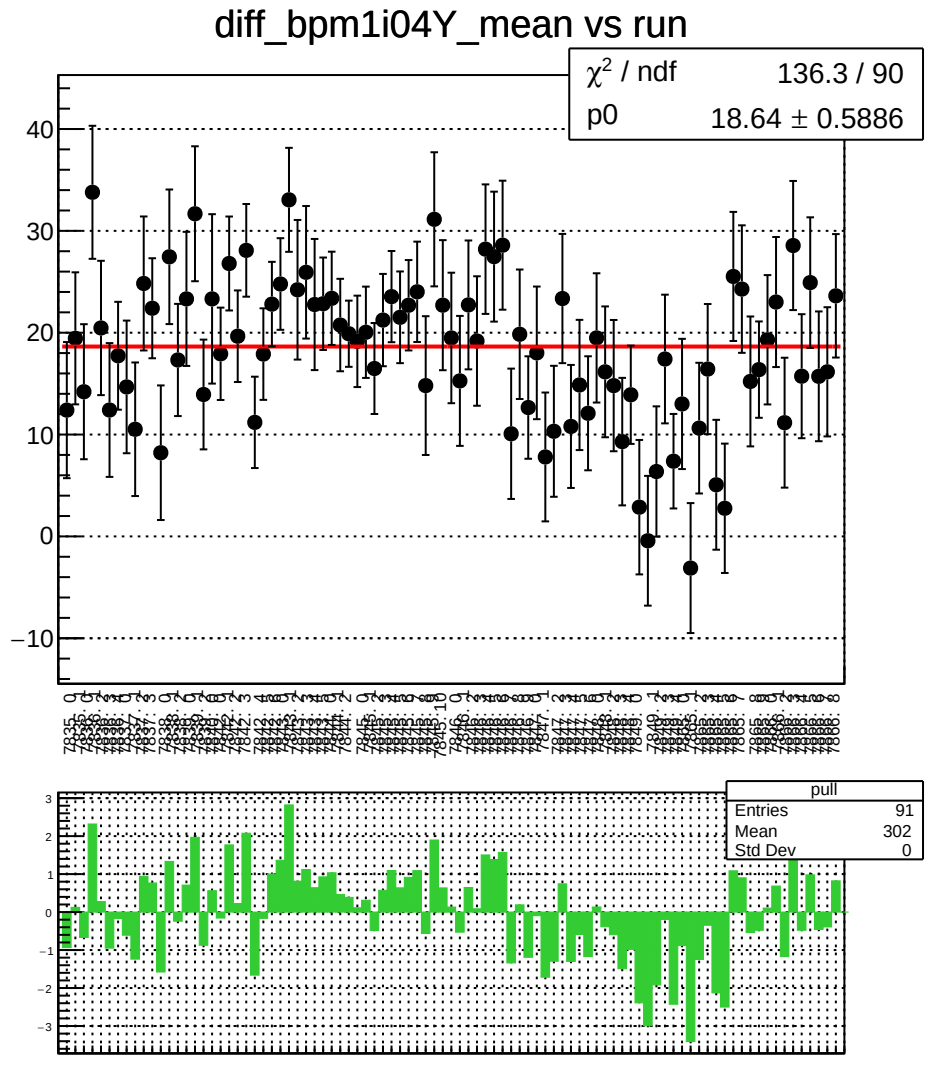

pull1D
Entries 91
Mean −0.004406
Std Dev 2.257

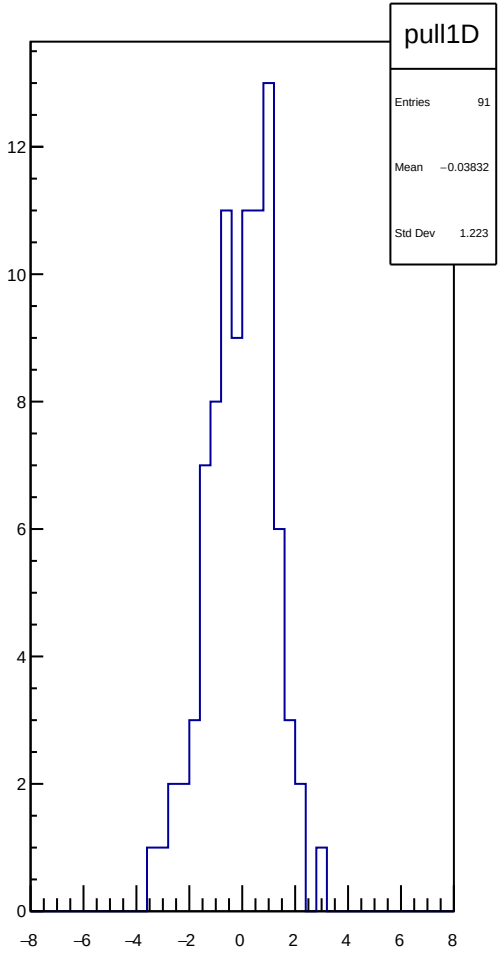

diff_bpm1i02Y_rms vs run
χ² / ndf 215.3 / 90
p0 484.6 ± 0.3658
500
495
490
485
480
475
470

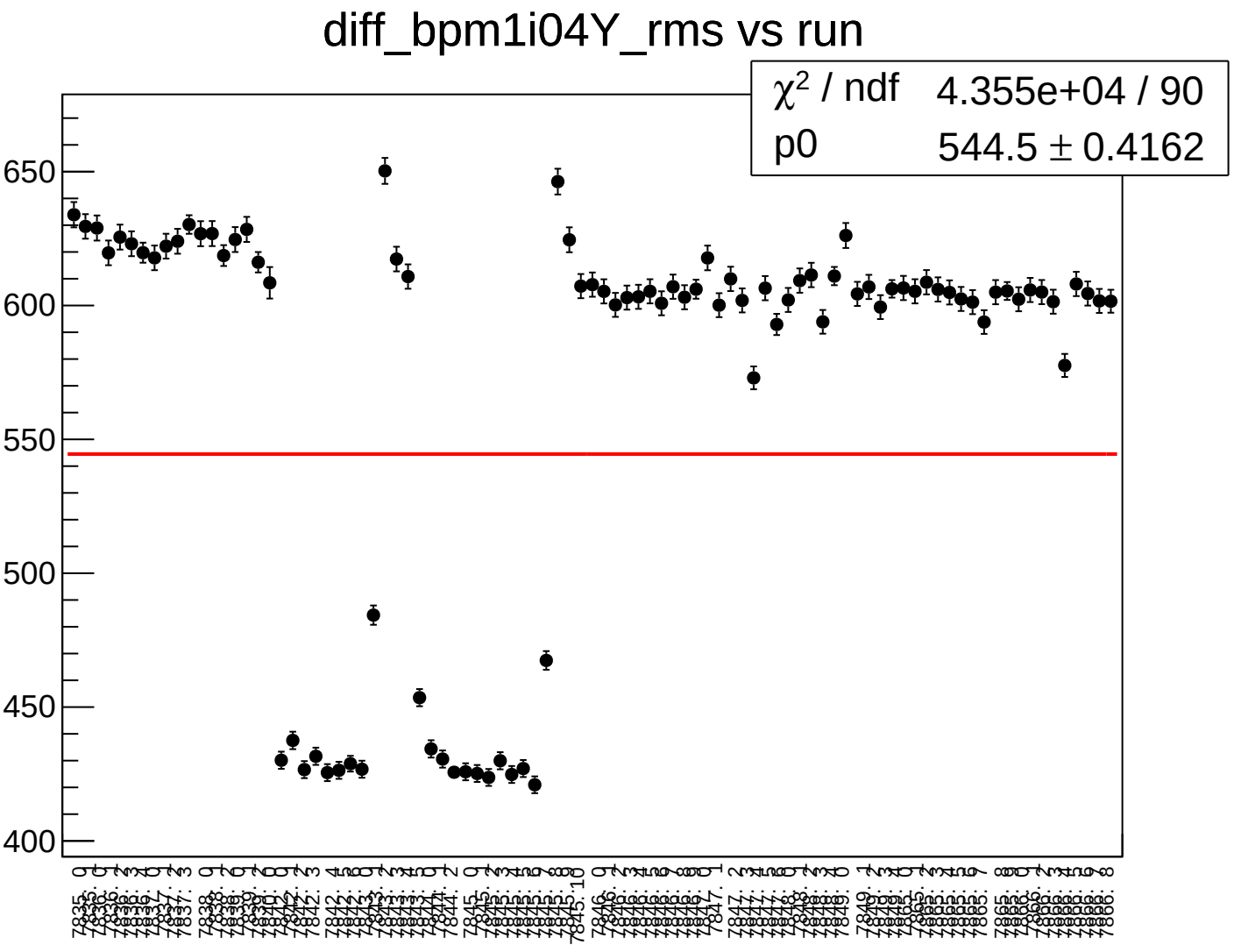

diff_bpm1i04X_mean vs run
χ² / ndf 198.4 / 90
p0 33.68 ± 0.9895
pull
Entries 91
Mean 1465
Std Dev 0

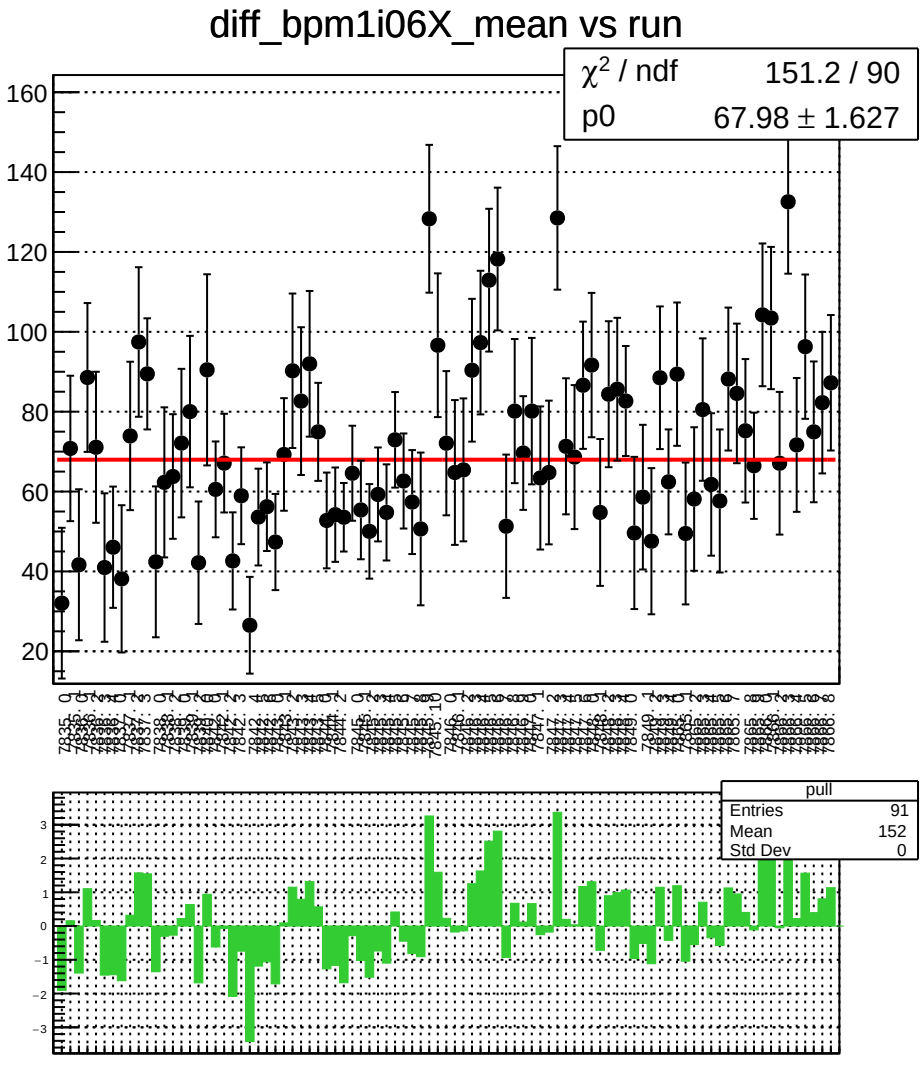

pull1D
Entries 91
Mean 0.01743
Std Dev 1.477

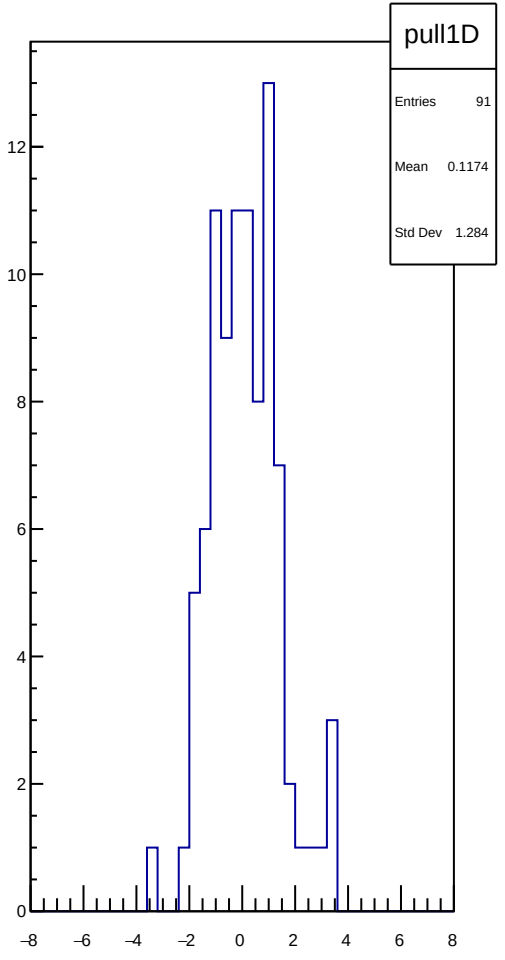

diff_bpm1i04X_rms vs run
χ^2 / ndf 694 / 90
p0 926.7 ± 0.6997
960
940
920
900
880

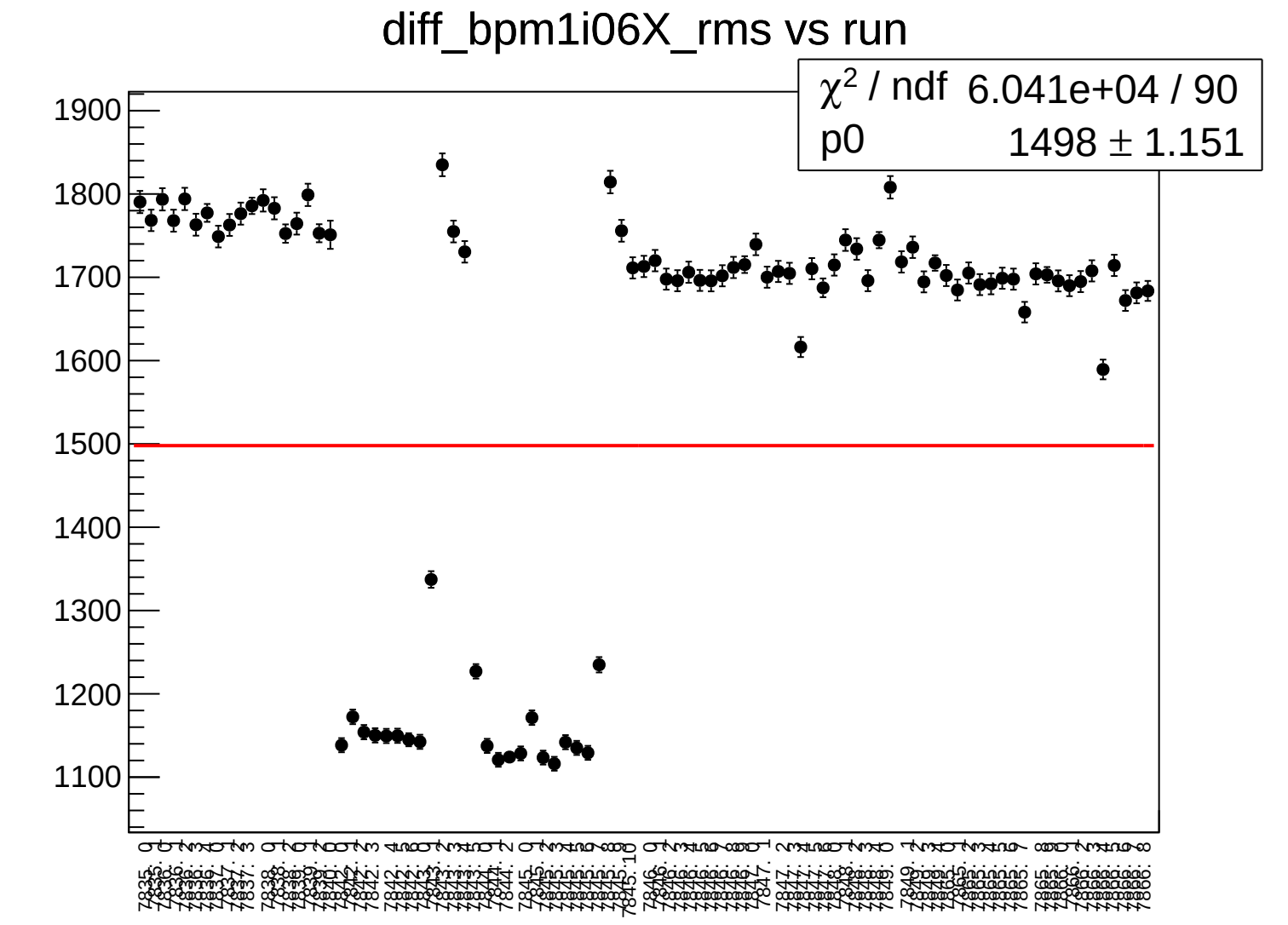

diff_bpm1i04Y_mean vs run
χ^2 / ndf 136.3 / 90
p0 18.64 ± 0.5886
pull
Entries 91
Mean 302
Std Dev 0

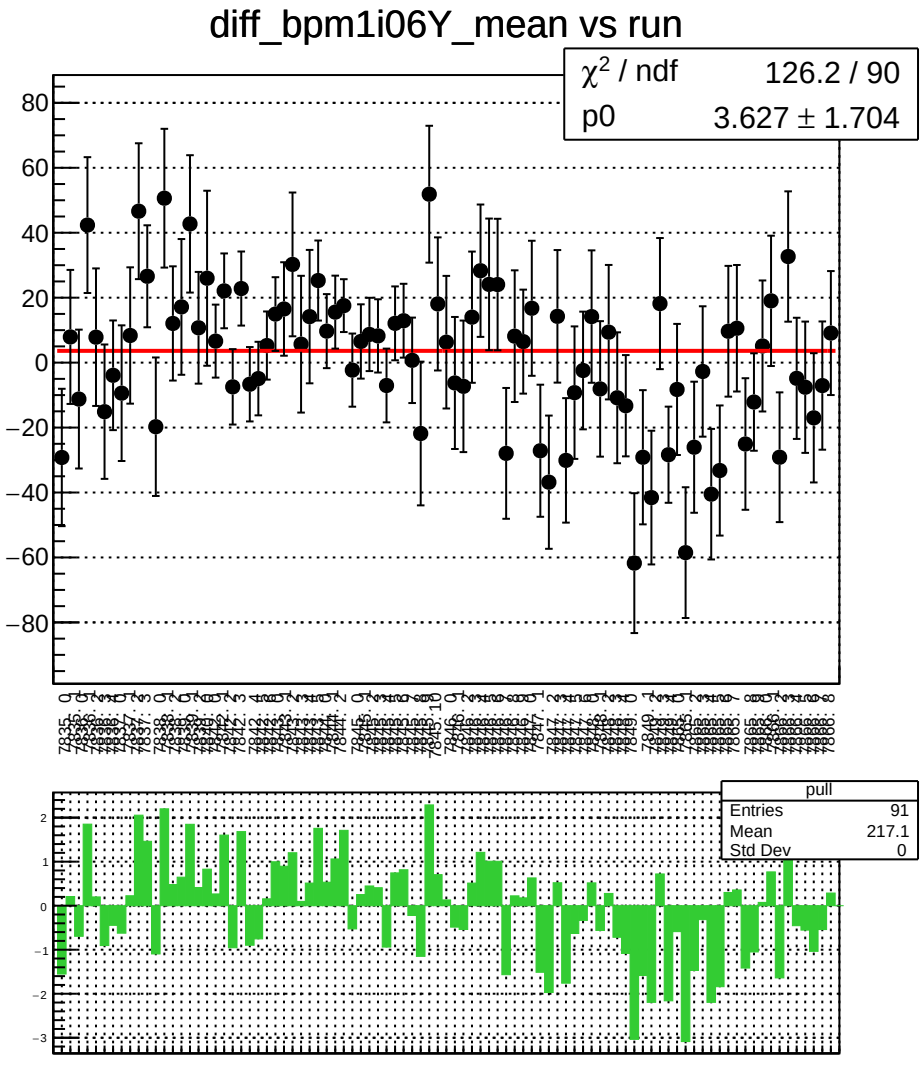

pull1D
Entries 91
Mean −0.03832
Std Dev 1.223

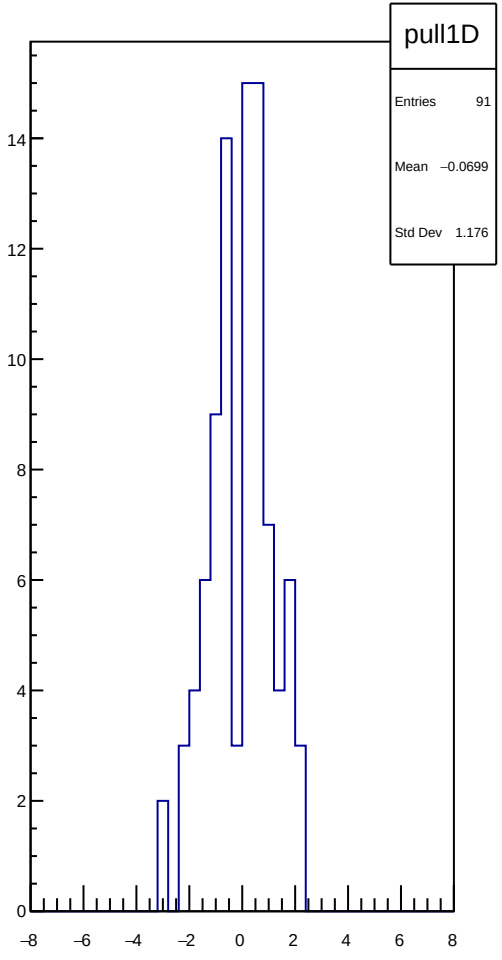

diff_bpm1i04Y_rms vs run
χ² / ndf 4.355e+04 / 90
p0 544.5 ± 0.4162
650
600
550
500
450
400

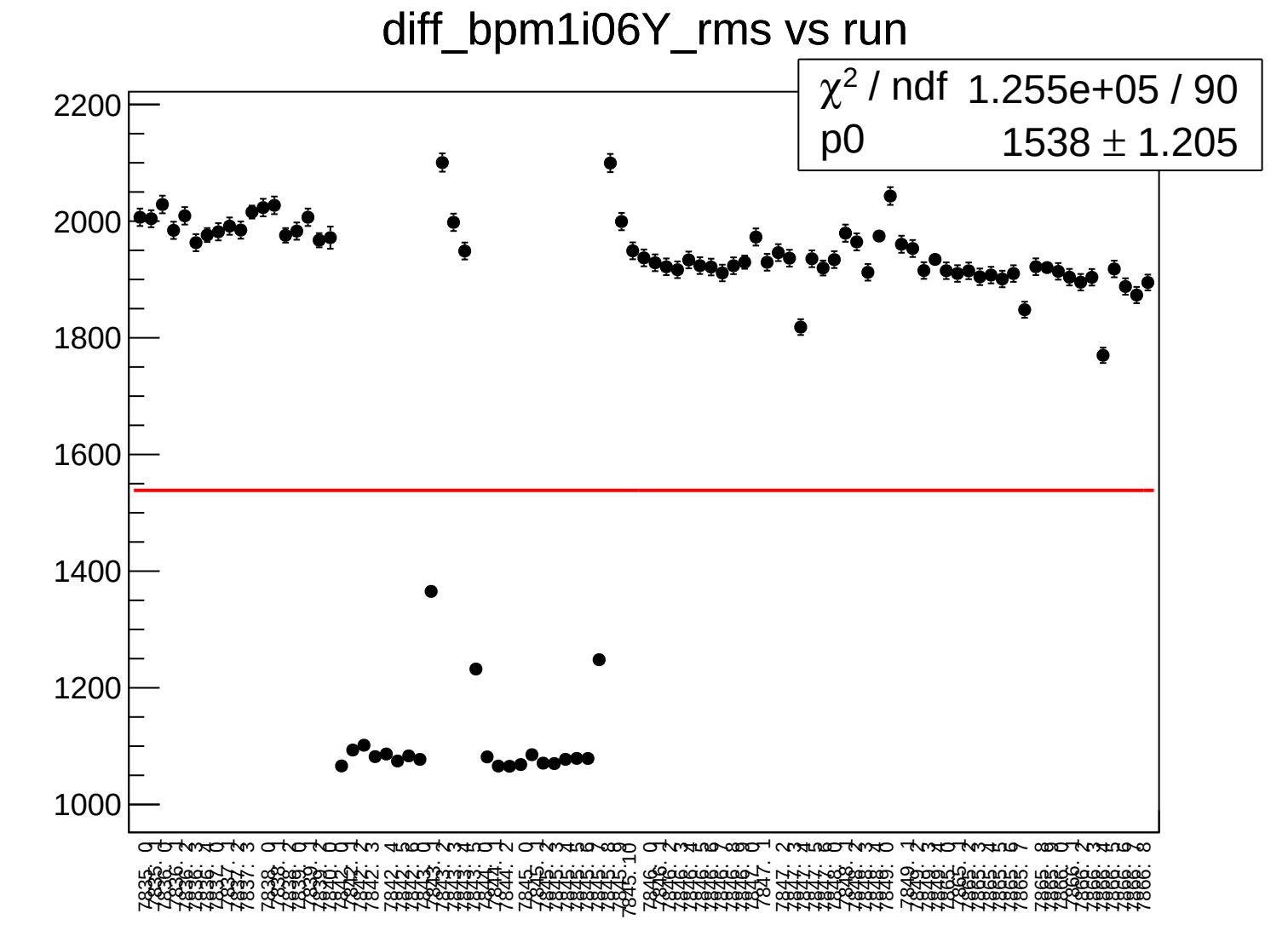

diff_bpm1i06X_mean vs run
χ^2 / ndf 151.2 / 90
p0 67.98 ± 1.627
pull
Entries 91
Mean 152
Std Dev 0

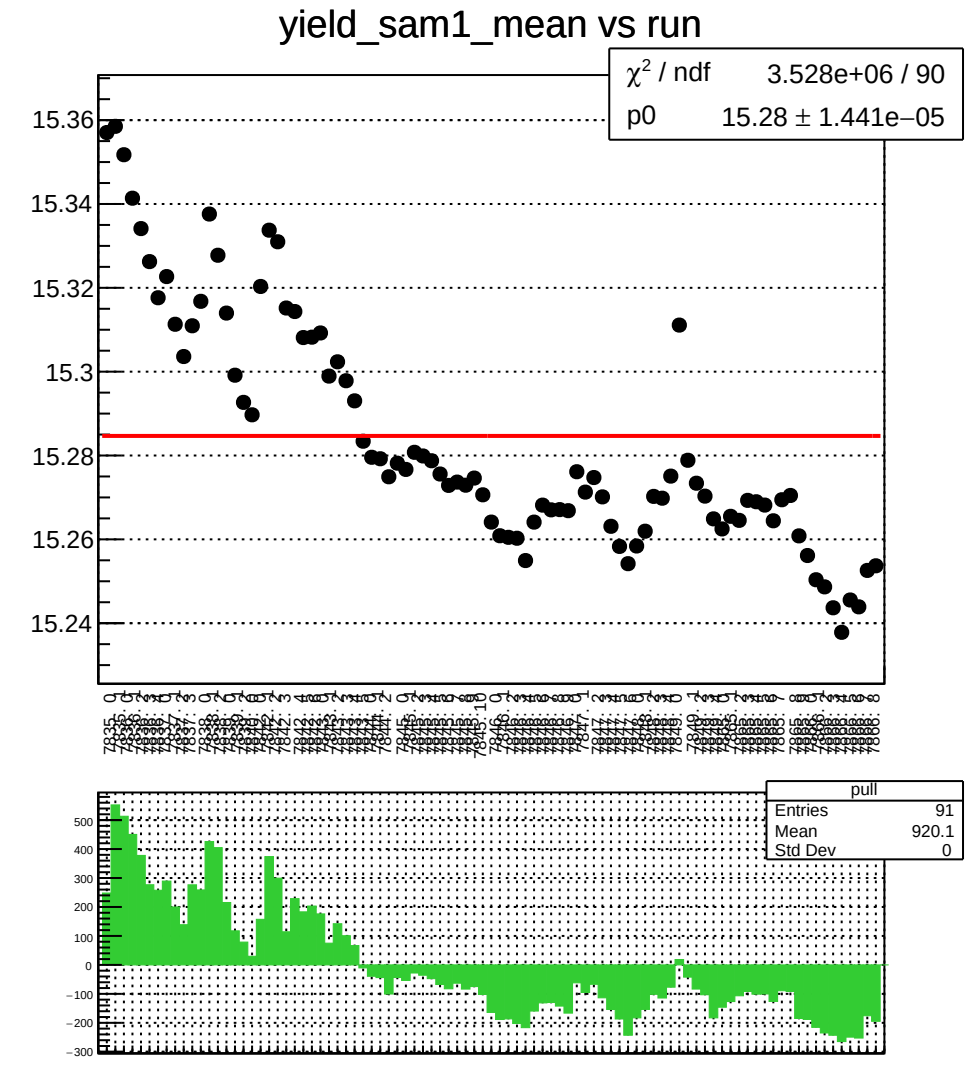

pull1D
Entries 91
Mean 0.1174
Std Dev 1.284

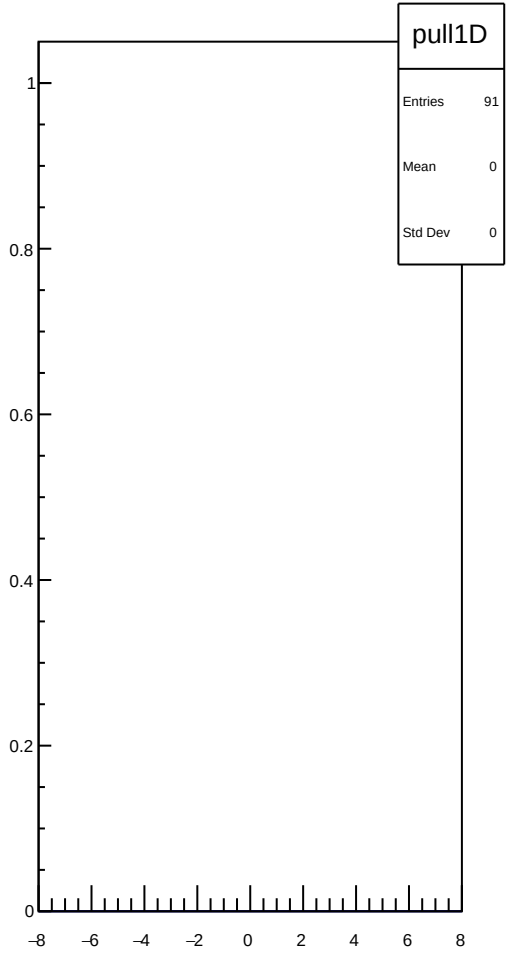

diff_bpm1i06X_rms vs run
χ² / ndf 6.041e+04 / 90
p0 1498 ± 1.151
1900
1800
1700
1600
1500
1400
1300
1200
1100

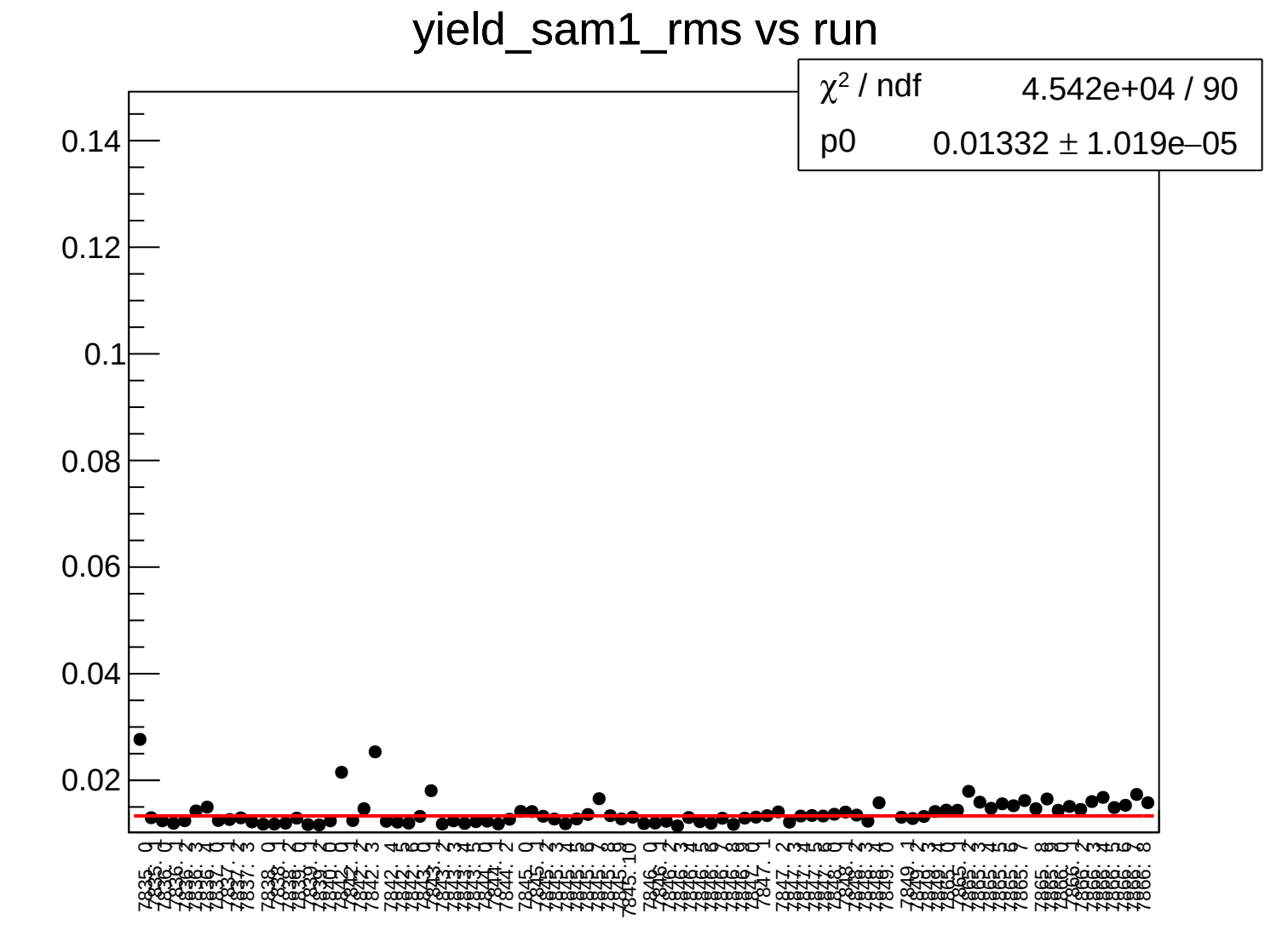

diff_bpm1i06Y_mean vs run
χ² / ndf 126.2 / 90
p0 3.627 ± 1.704
pull
Entries 91
Mean 217.1
Std Dev 0

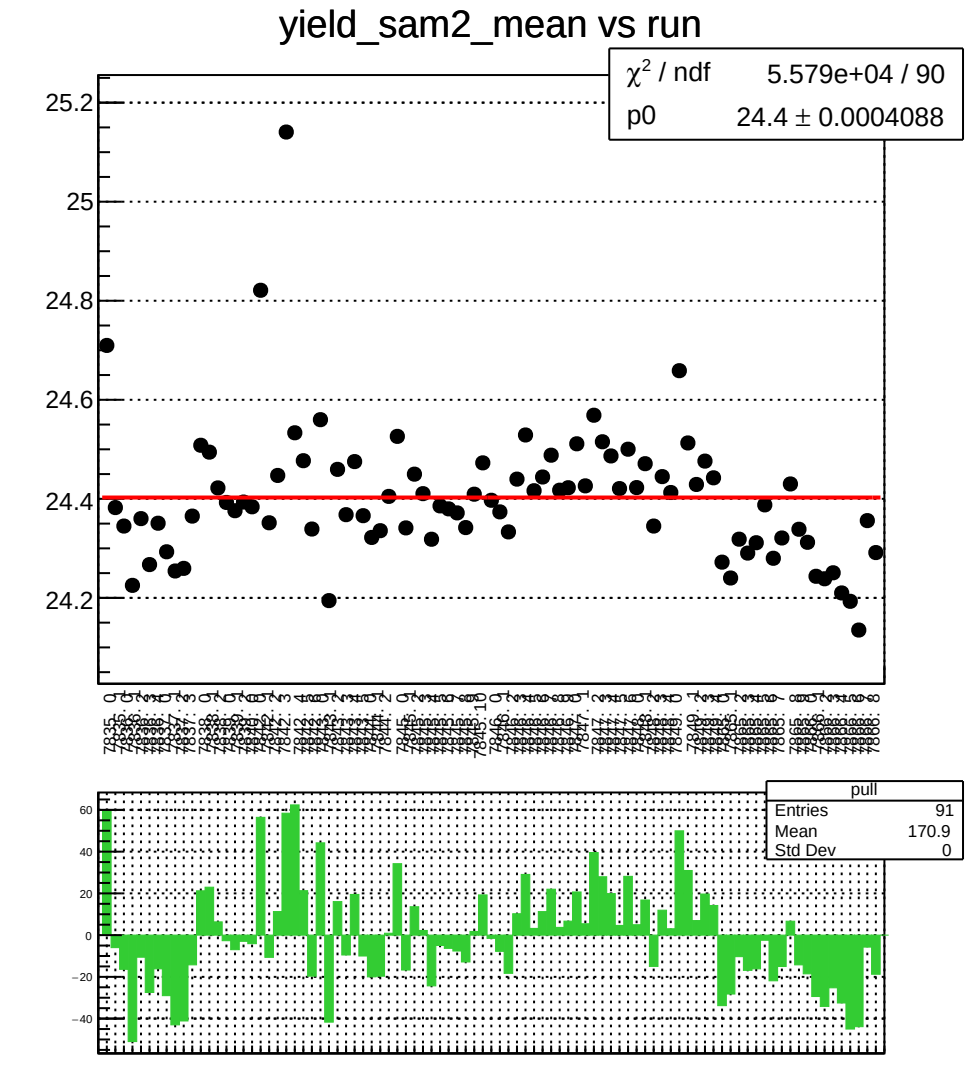

pull1D
Entries 91
Mean −0.0699
Std Dev 1.176

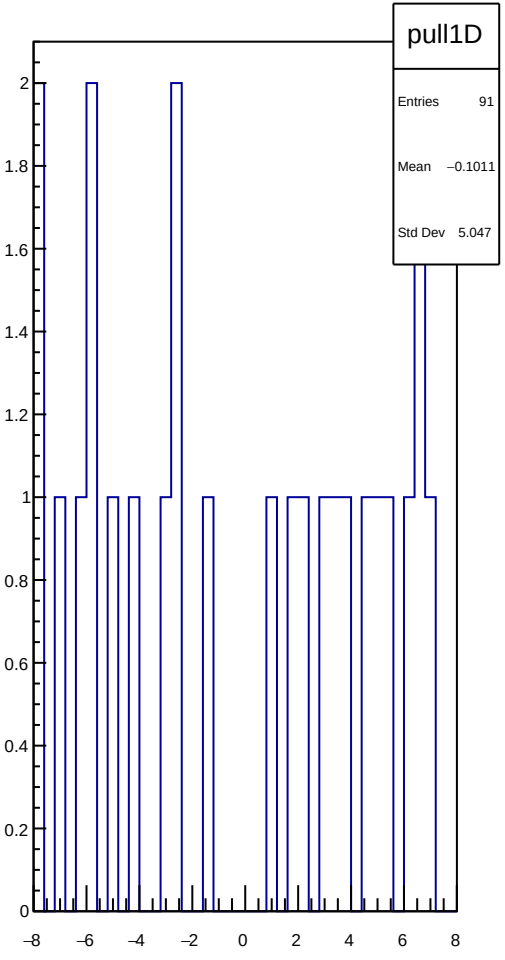

diff_bpm1i06Y_rms vs run
χ^2 / ndf 1.255e+05 / 90
p0 1538 ± 1.205
2200
2000
1800
1600
1400
1200
1000

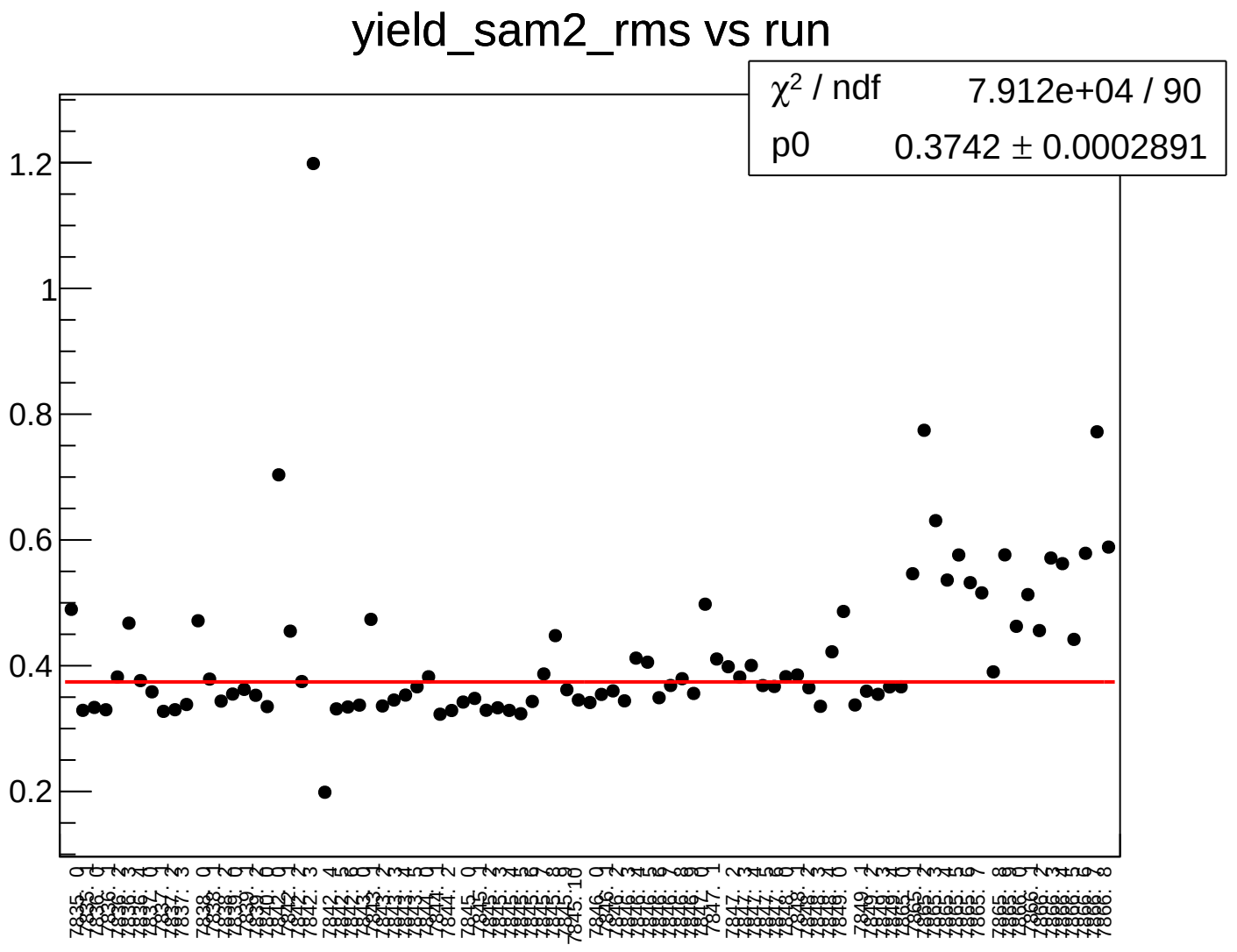

yield_sam1_mean vs run
χ² / ndf 3.528e+06 / 90
p0 15.28 ± 1.441e−05
15.36
15.34
15.32
15.3
15.28
15.26
15.24
pull
Entries 91
Mean 920.1
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

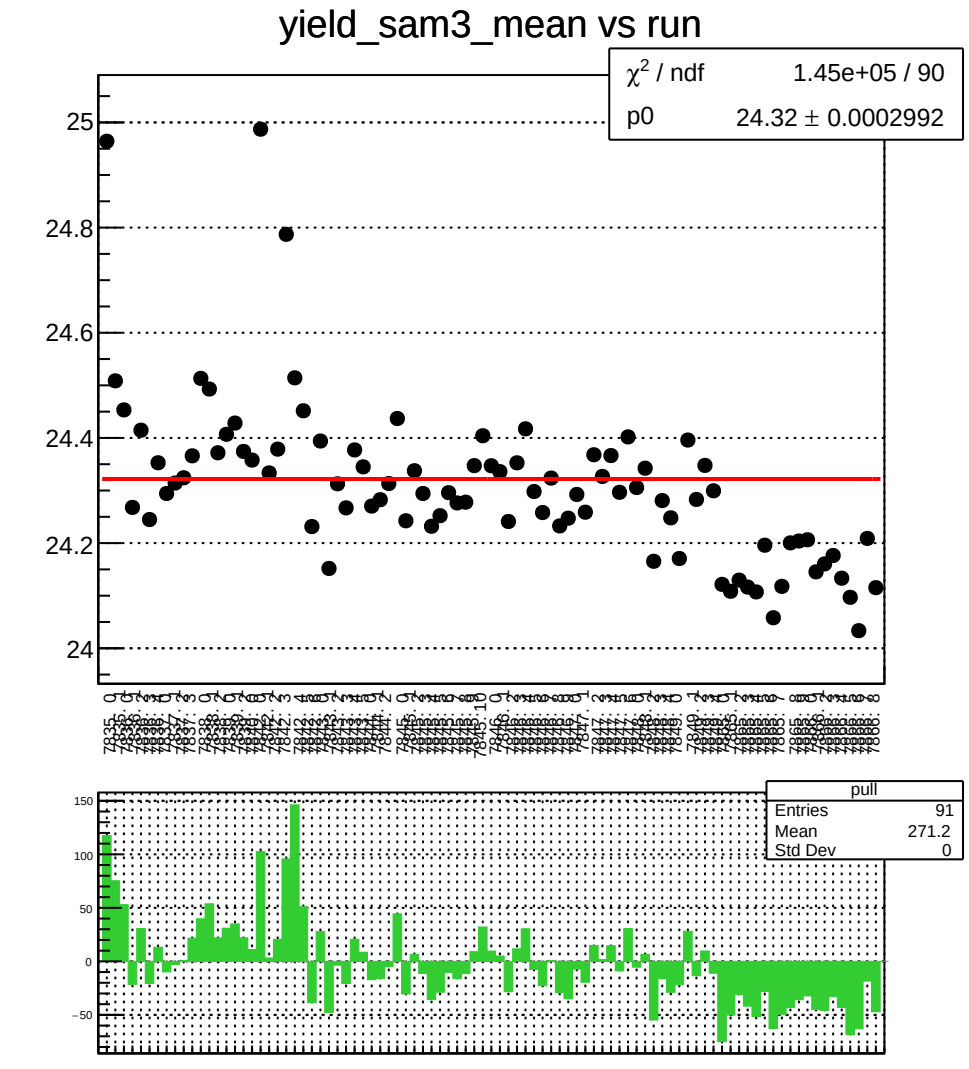

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

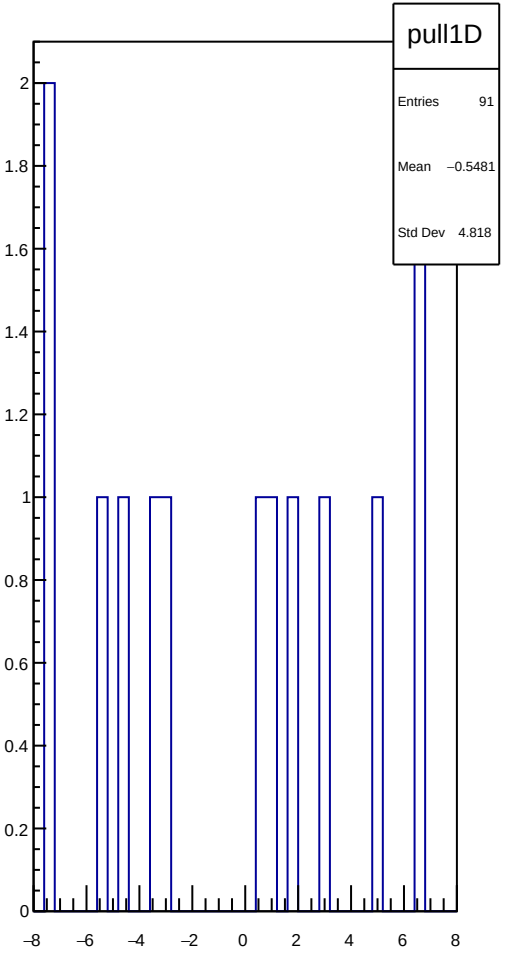

yield_sam1_rms vs run
χ² / ndf 4.542e+04 / 90
p0 0.01332 ± 1.019e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

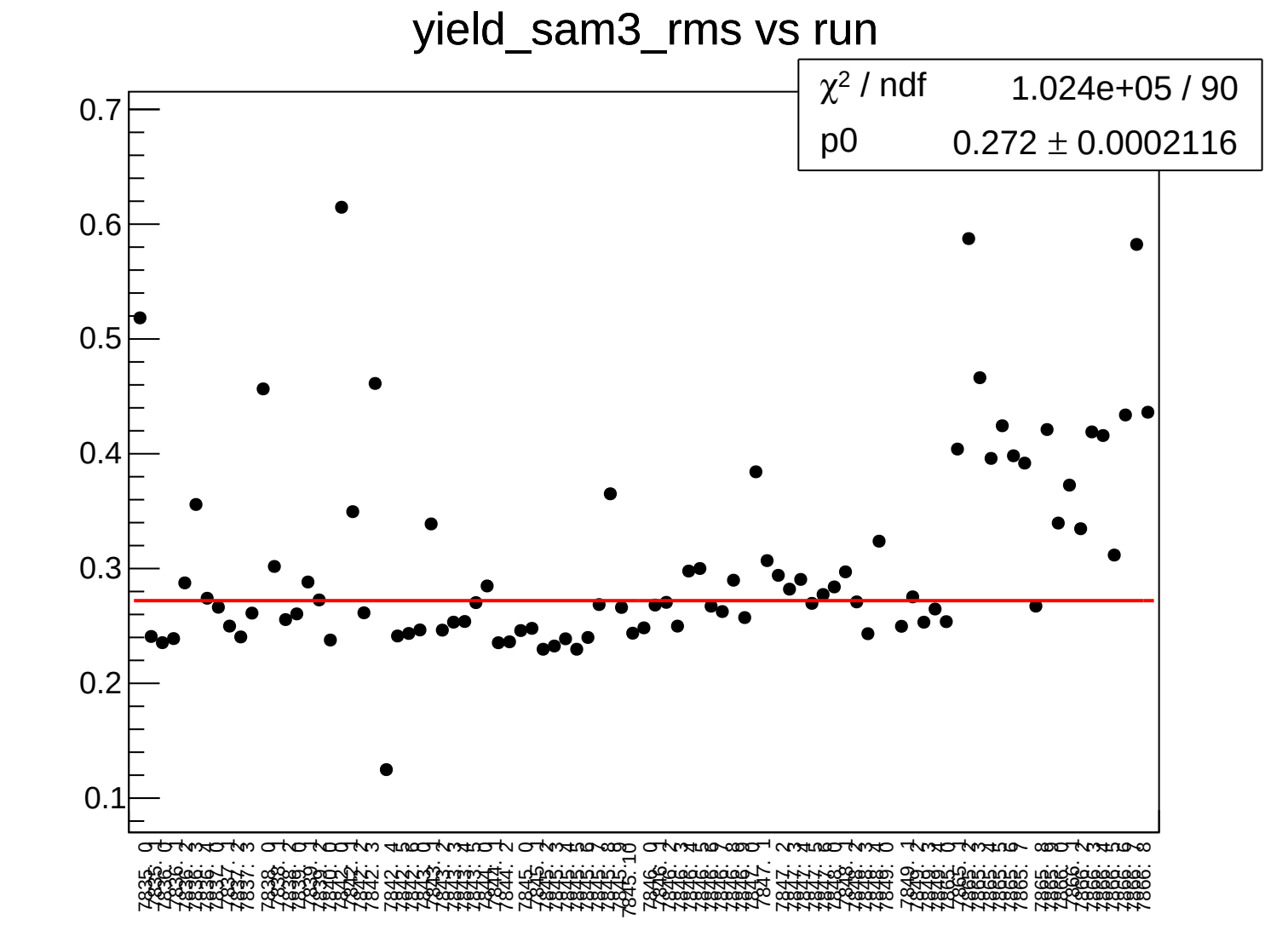

yield_sam2_mean vs run
χ² / ndf 5.579e+04 / 90
p0 24.4 ± 0.0004088
25.2
25
24.8
24.6
24.4
24.2
pull
Entries 91
Mean 170.9
Std Dev 0
60
40
20
0
−20
−40

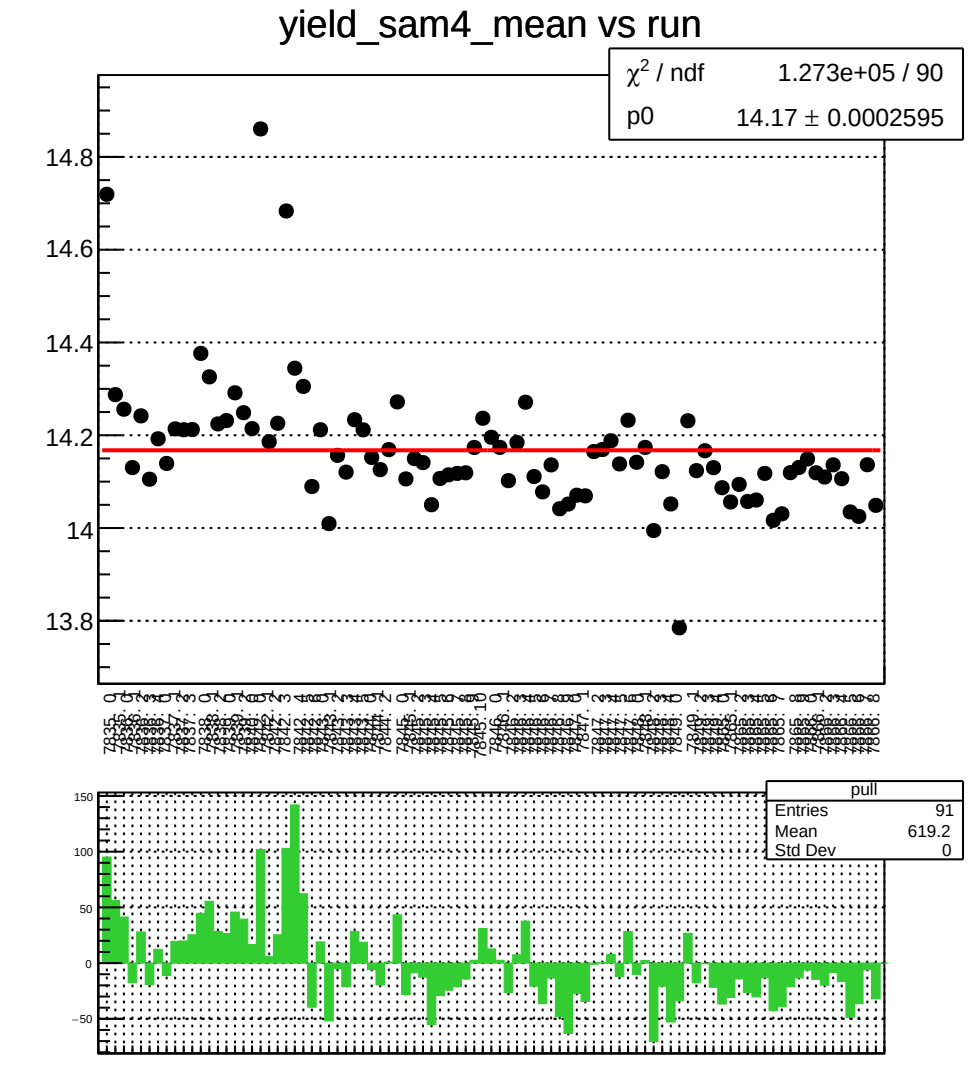

pull1D
Entries 91
Mean −0.1011
Std Dev 5.047
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

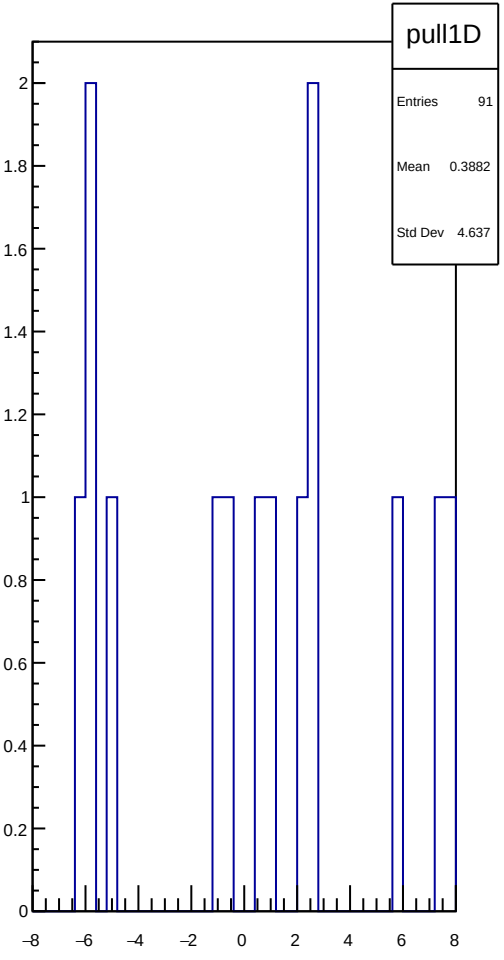

yield_sam2_rms vs run
χ² / ndf 7.912e+04 / 90
p0 0.3742 ± 0.0002891
1.2
1
0.8
0.6
0.4
0.2

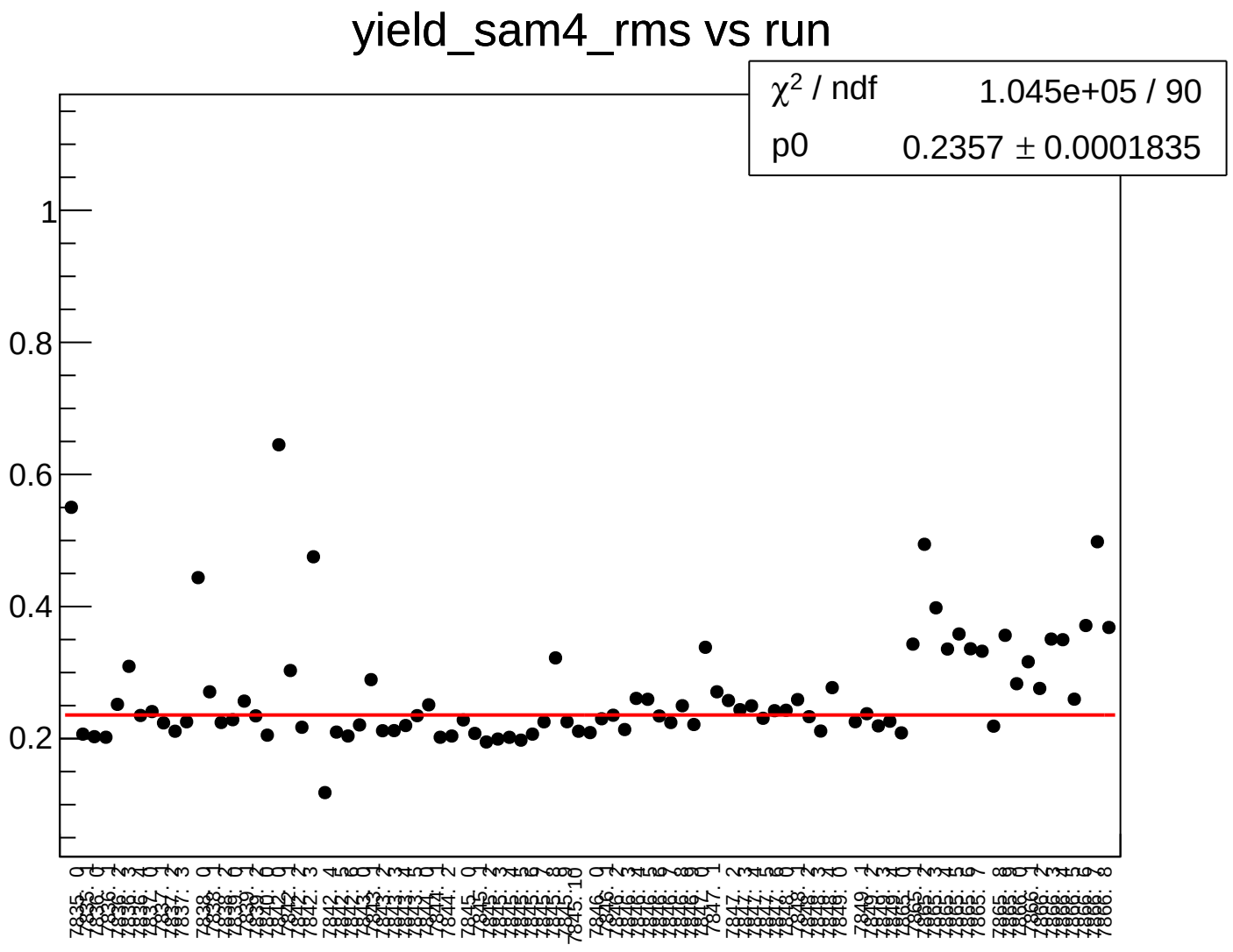

yield_sam3_mean vs run
χ² / ndf 1.45e+05 / 90
p0 24.32 ± 0.0002992
25
24.8
24.6
24.4
24.2
24
pull
Entries 91
Mean 271.2
Std Dev 0
150
100
50
0
−50

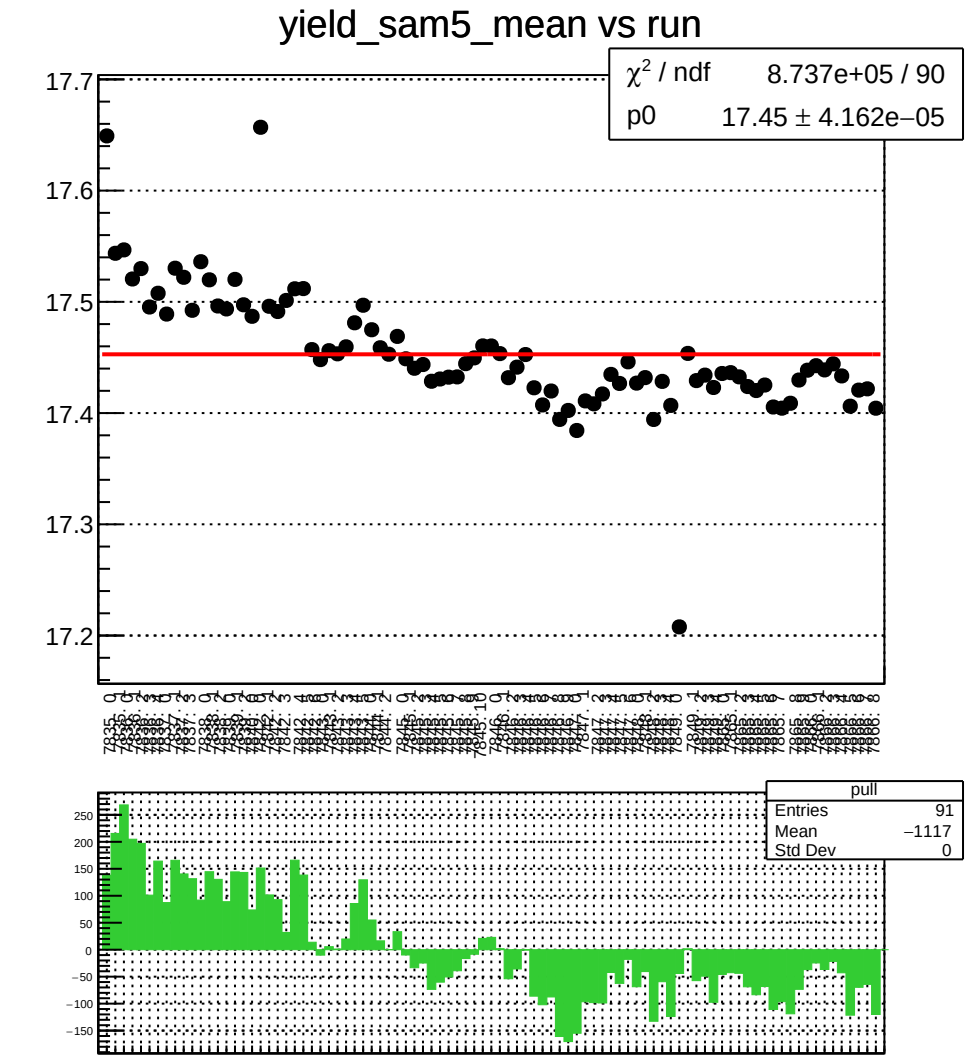

pull1D
Entries 91
Mean −0.5481
Std Dev 4.818
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

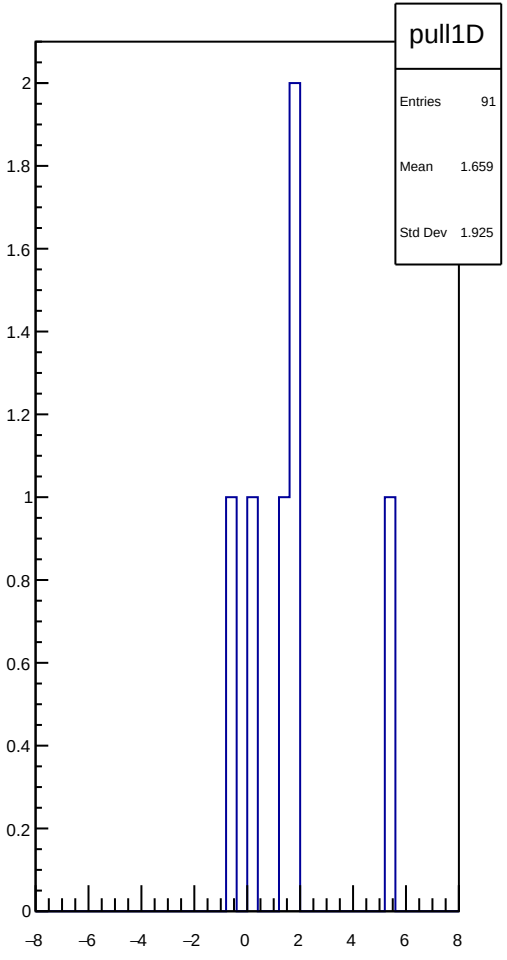

yield_sam3_rms vs run
χ² / ndf 1.024e+05 / 90
p0 0.272 ± 0.0002116
0.7
0.6
0.5
0.4
0.3
0.2
0.1

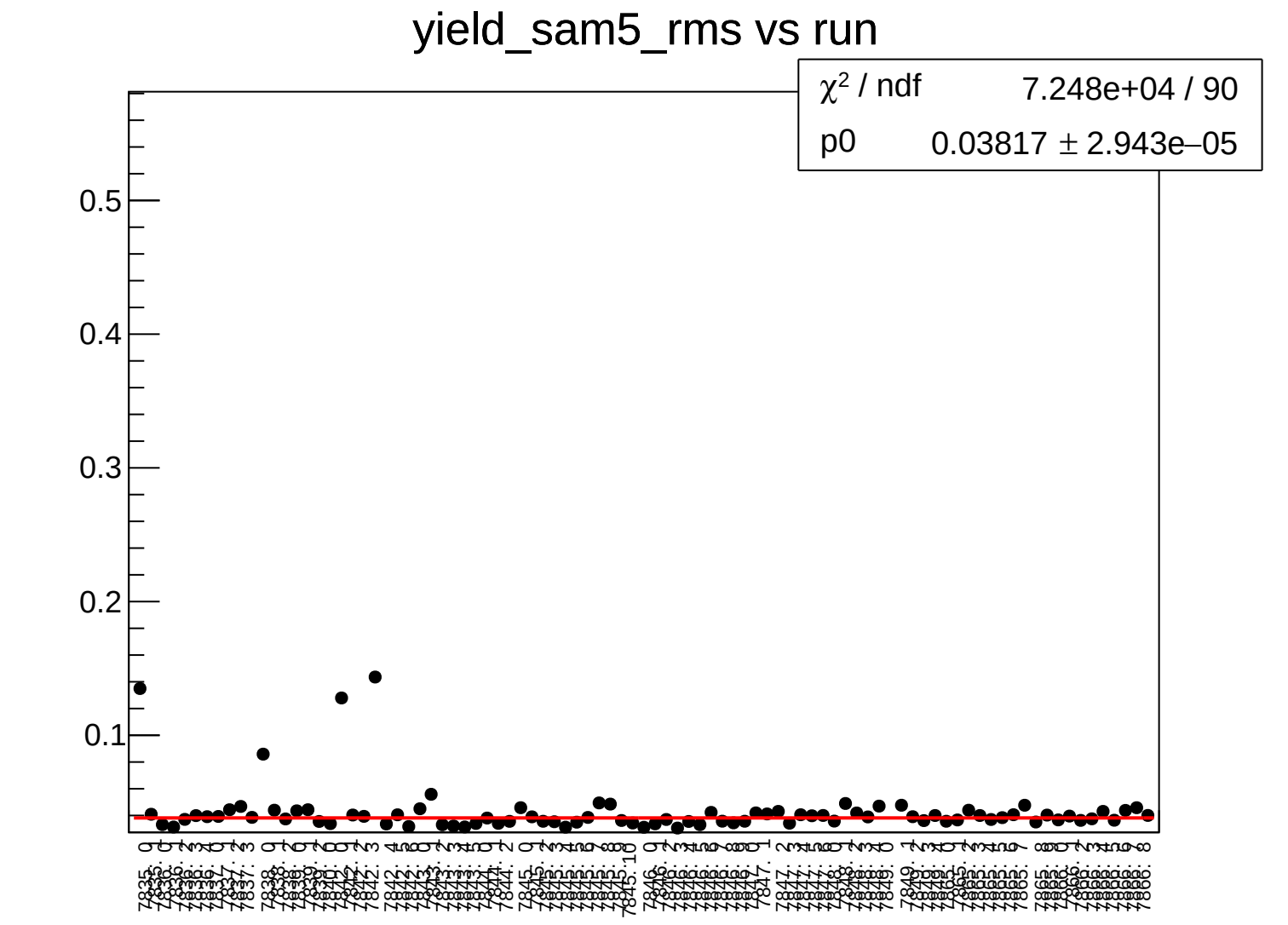

yield_sam4_mean vs run
χ² / ndf 1.273e+05 / 90
p0 14.17 ± 0.0002595
14.8
14.6
14.4
14.2
14
13.8
pull
Entries 91
Mean 619.2
Std Dev 0
150
100
50
0
−50

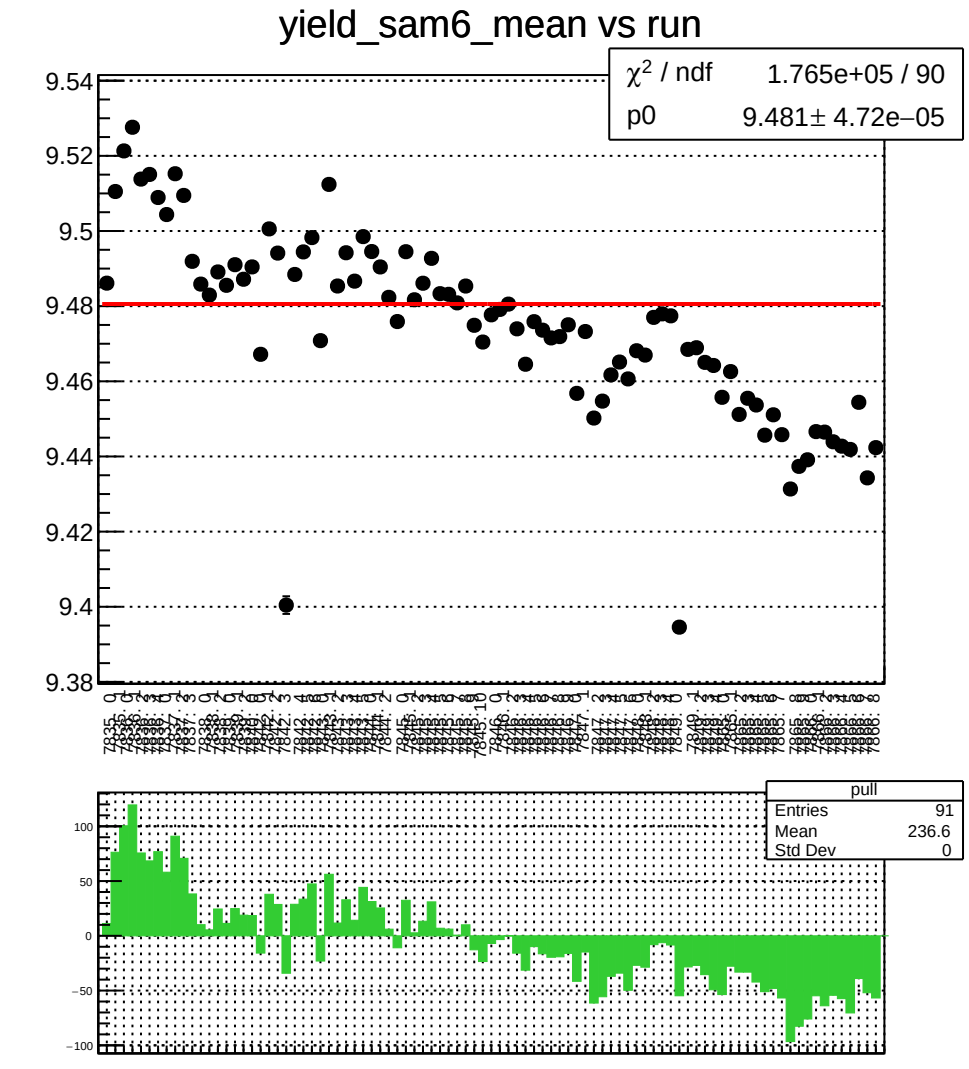

pull1D
Entries 91
Mean 0.3882
Std Dev 4.637
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

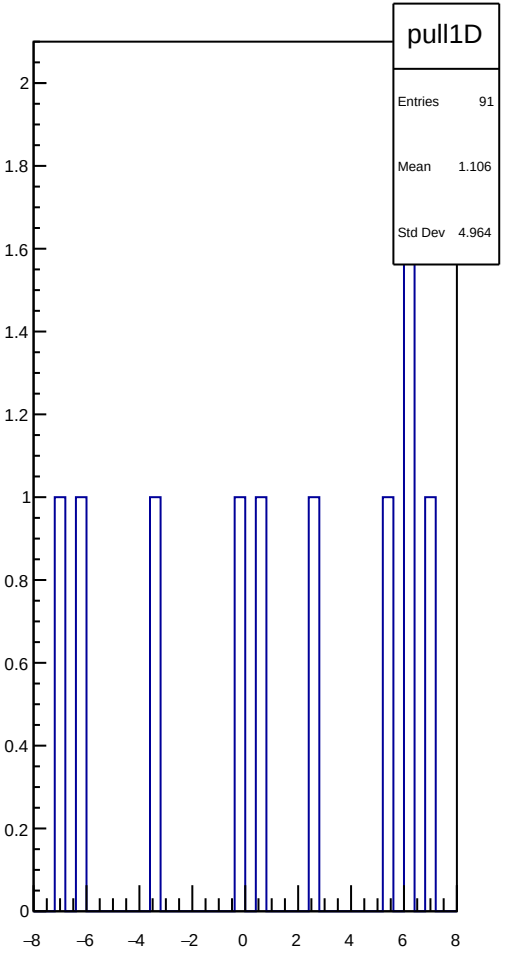

yield_sam4_rms vs run
χ² / ndf 1.045e+05 / 90
p0 0.2357 ± 0.0001835
1
0.8
0.6
0.4
0.2

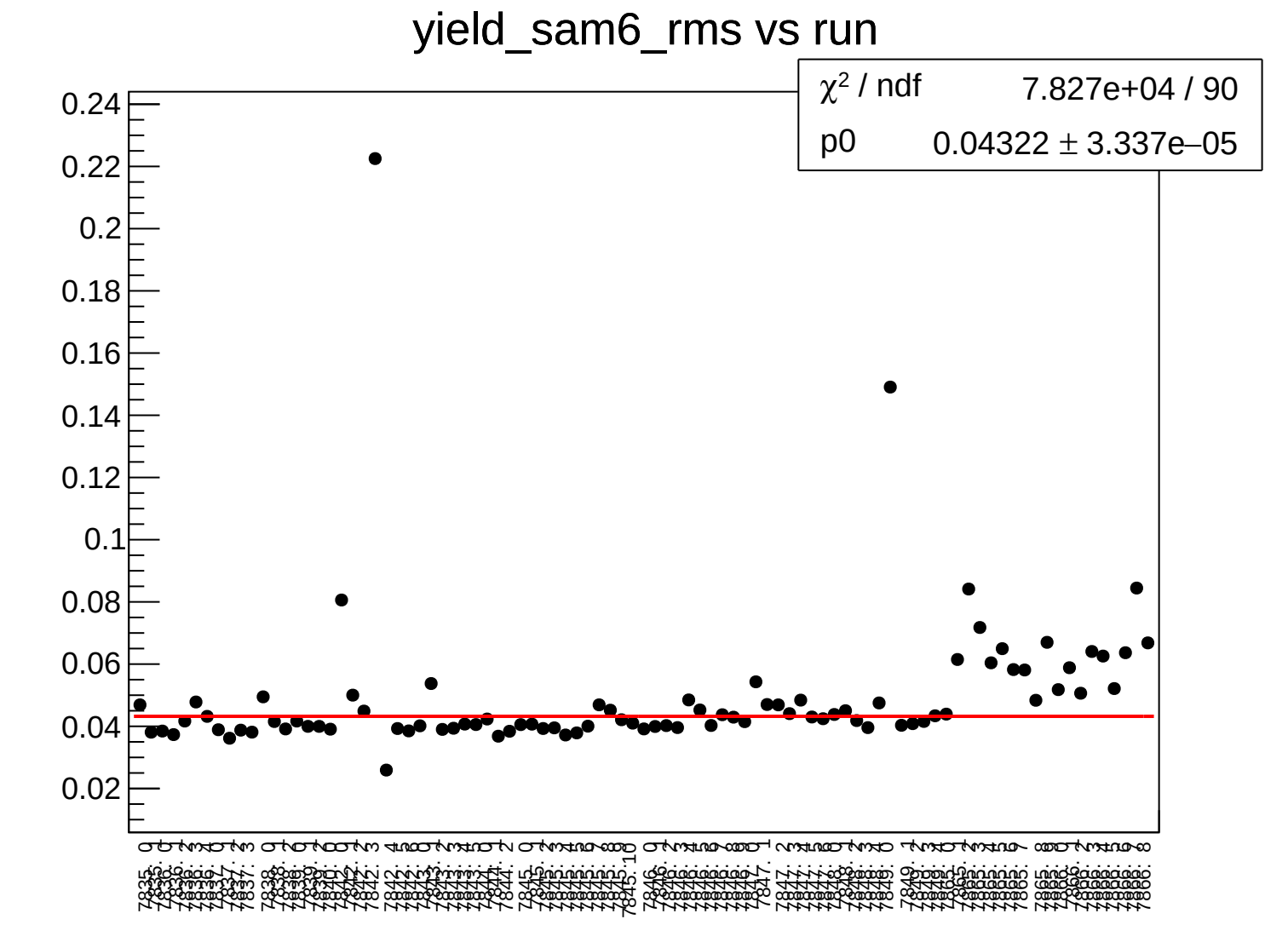

yield_sam5_mean vs run
χ² / ndf 8.737e+05 / 90
p0 17.45 ± 4.162e−05
17.7
17.6
17.5
17.4
17.3
17.2
pull
Entries 91
Mean −1117
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

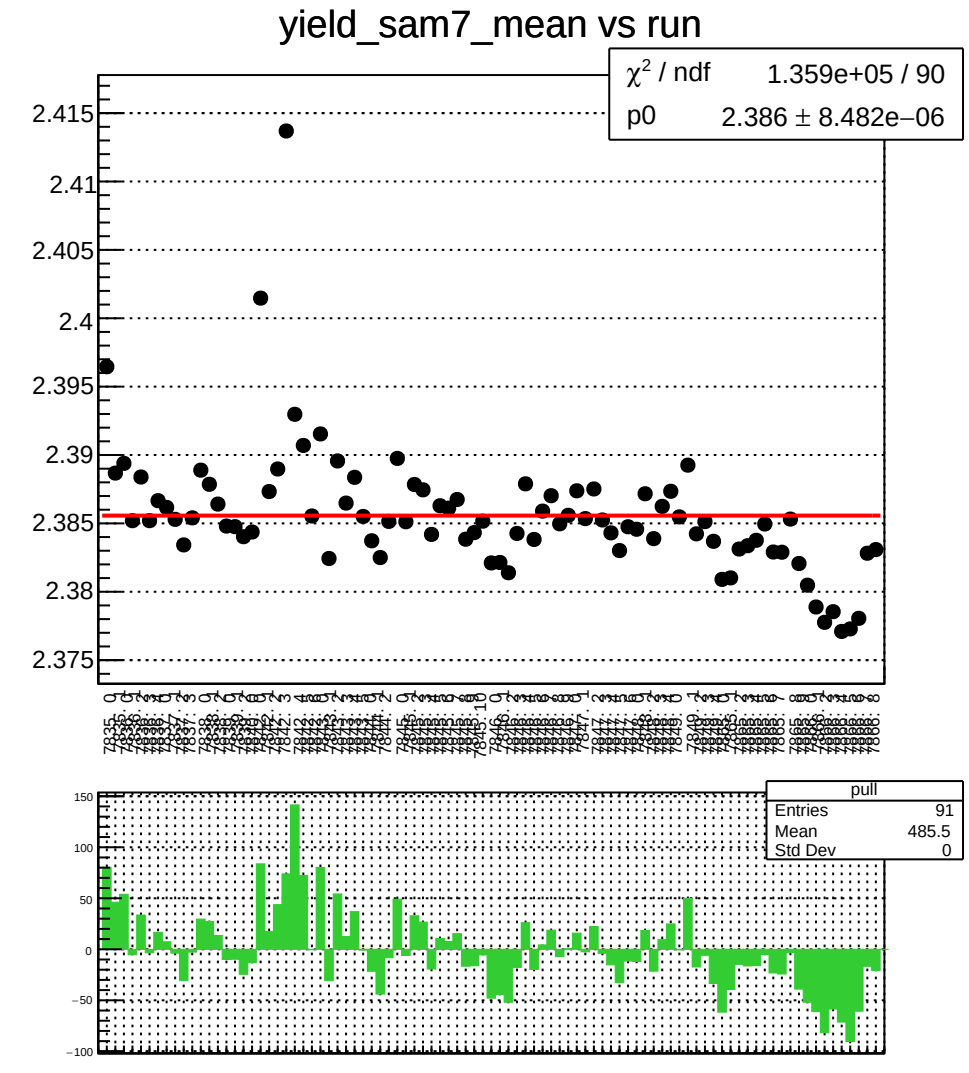

pull1D
Entries 91
Mean 1.659
Std Dev 1.925
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

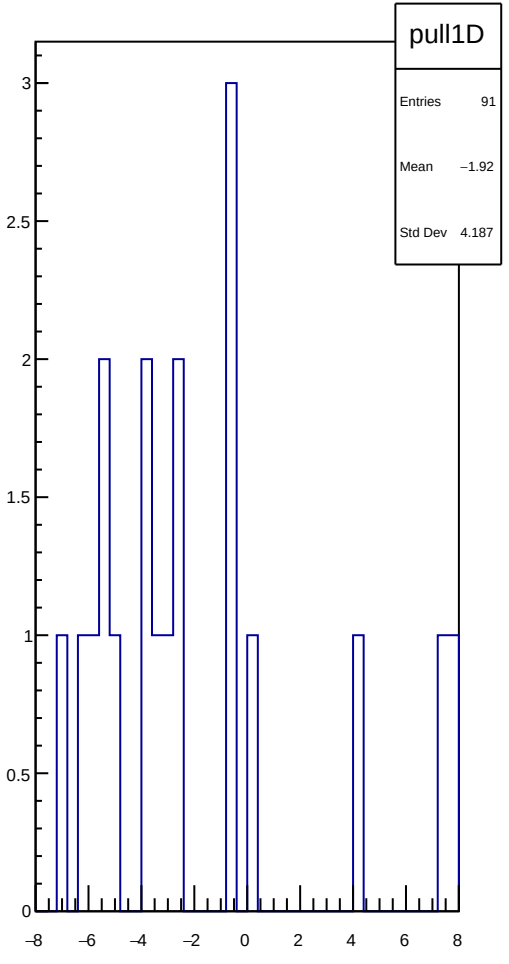

yield_sam5_rms vs run
χ² / ndf 7.248e+04 / 90
p0 0.03817 ± 2.943e−05
0.5
0.4
0.3
0.2
0.1

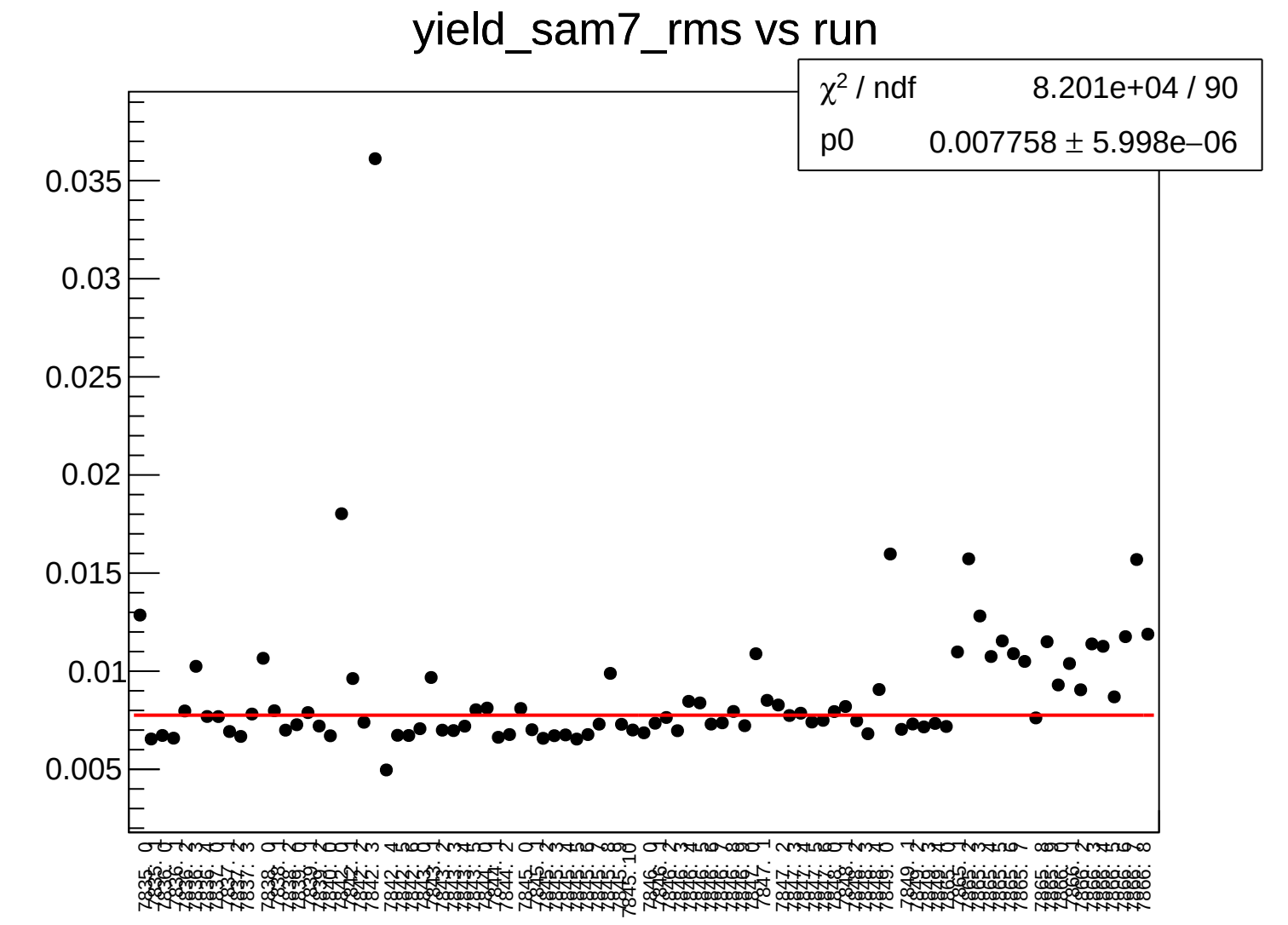

yield_sam6_mean vs run
χ² / ndf 1.765e+05 / 90
p0 9.481± 4.72e−05
pull
Entries 91
Mean 236.6
Std Dev 0

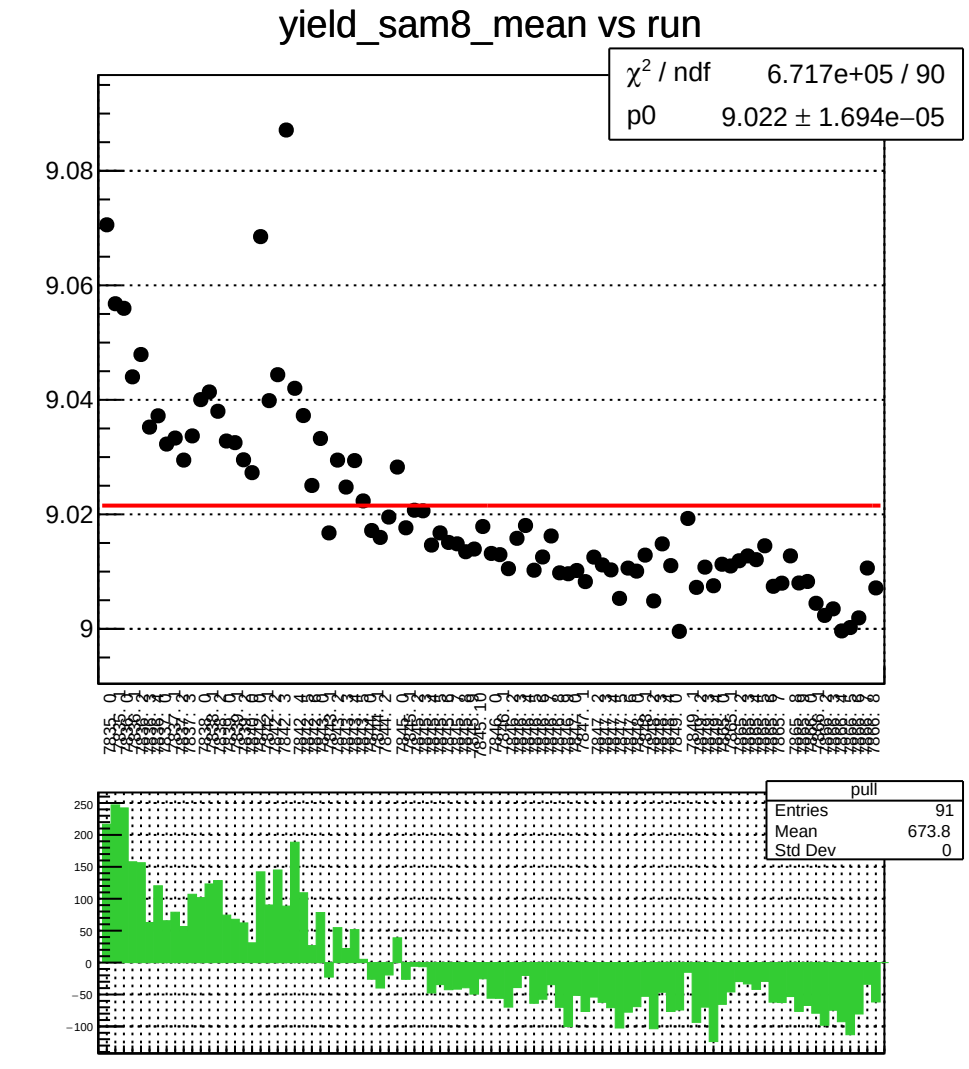

pull1D
Entries 91
Mean 1.106
Std Dev 4.964

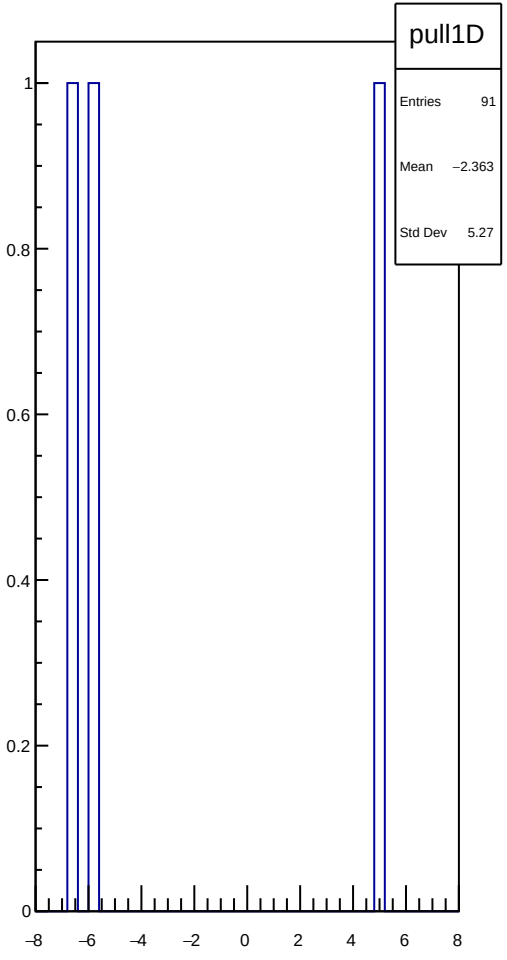

yield_sam6_rms vs run
χ² / ndf 7.827e+04 / 90
p0 0.04322 ± 3.337e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

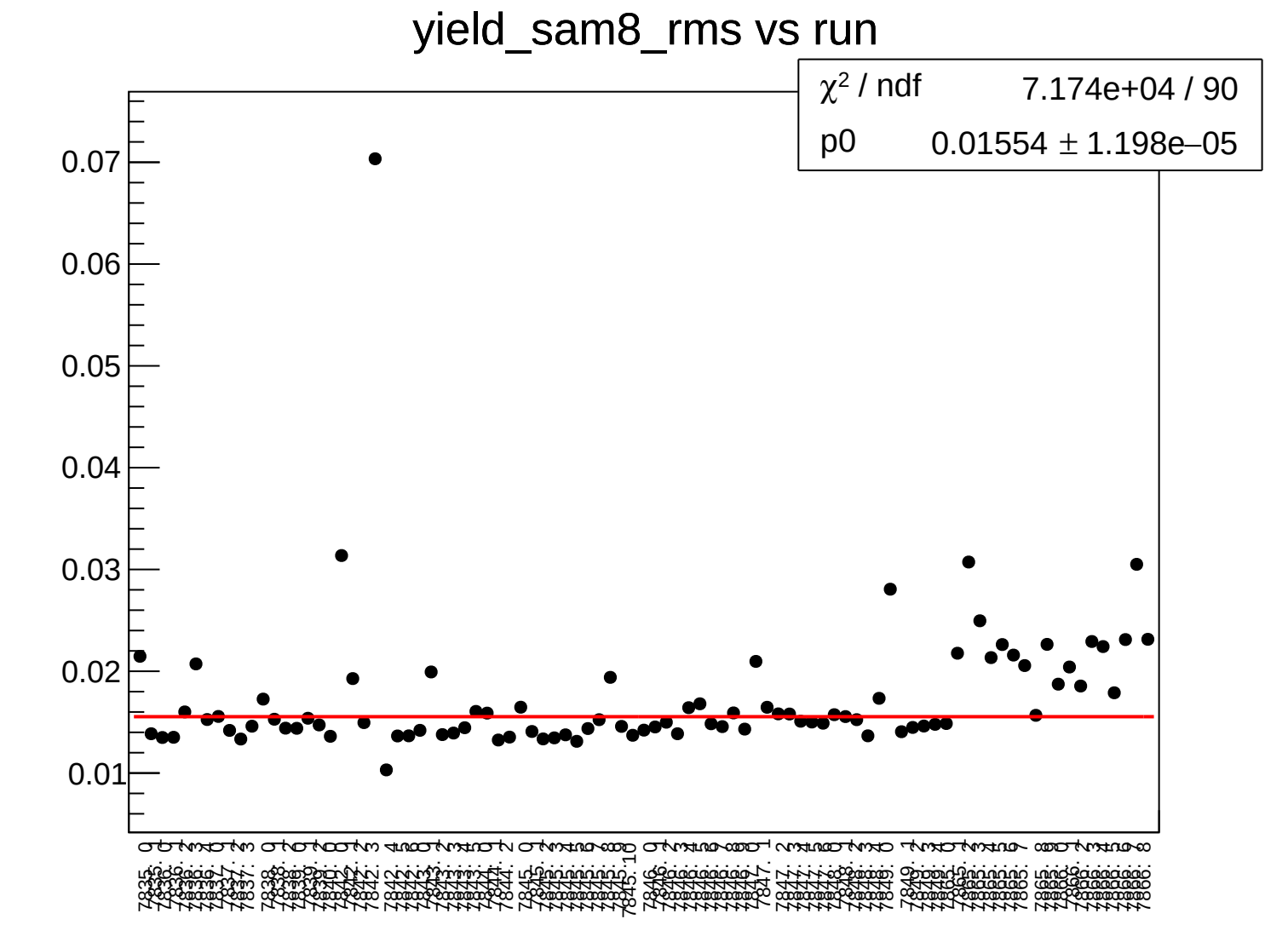

yield_sam7_mean vs run
χ² / ndf 1.359e+05 / 90
p0 2.386 ± 8.482e−06
2.415
2.41
2.405
2.4
2.395
2.39
2.385
2.38
2.375
pull
Entries 91
Mean 485.5
Std Dev 0
150
100
50
0
−50
−100

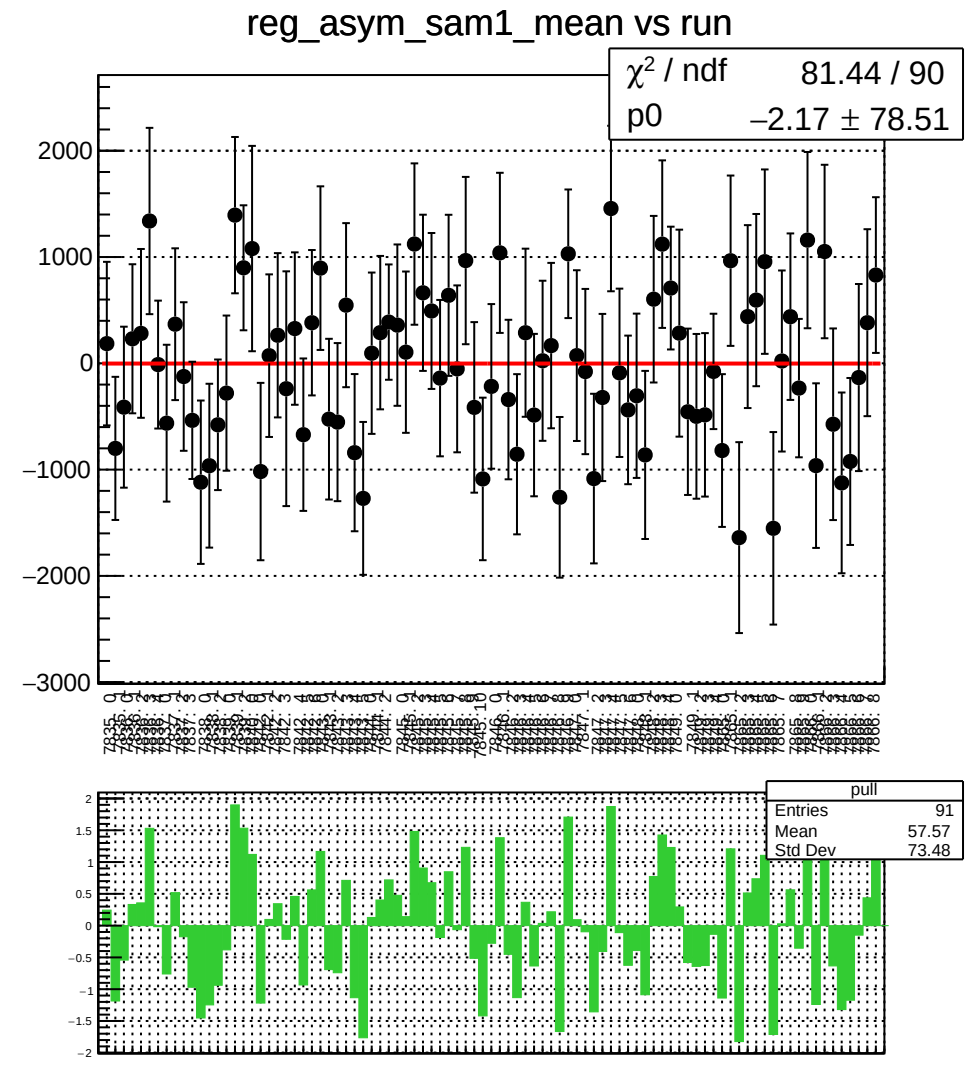

pull1D
Entries 91
Mean −1.92
Std Dev 4.187
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

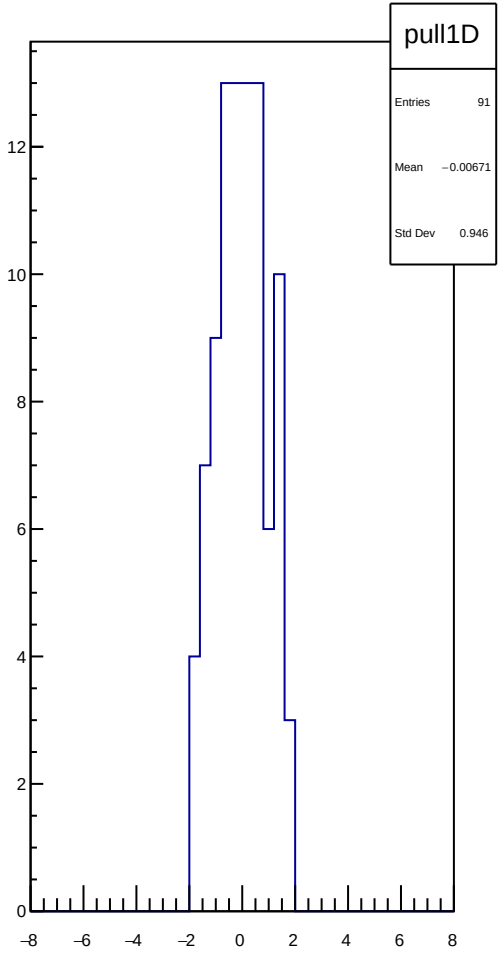

yield_sam7_rms vs run
χ² / ndf 8.201e+04 / 90
p0 0.007758 ± 5.998e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

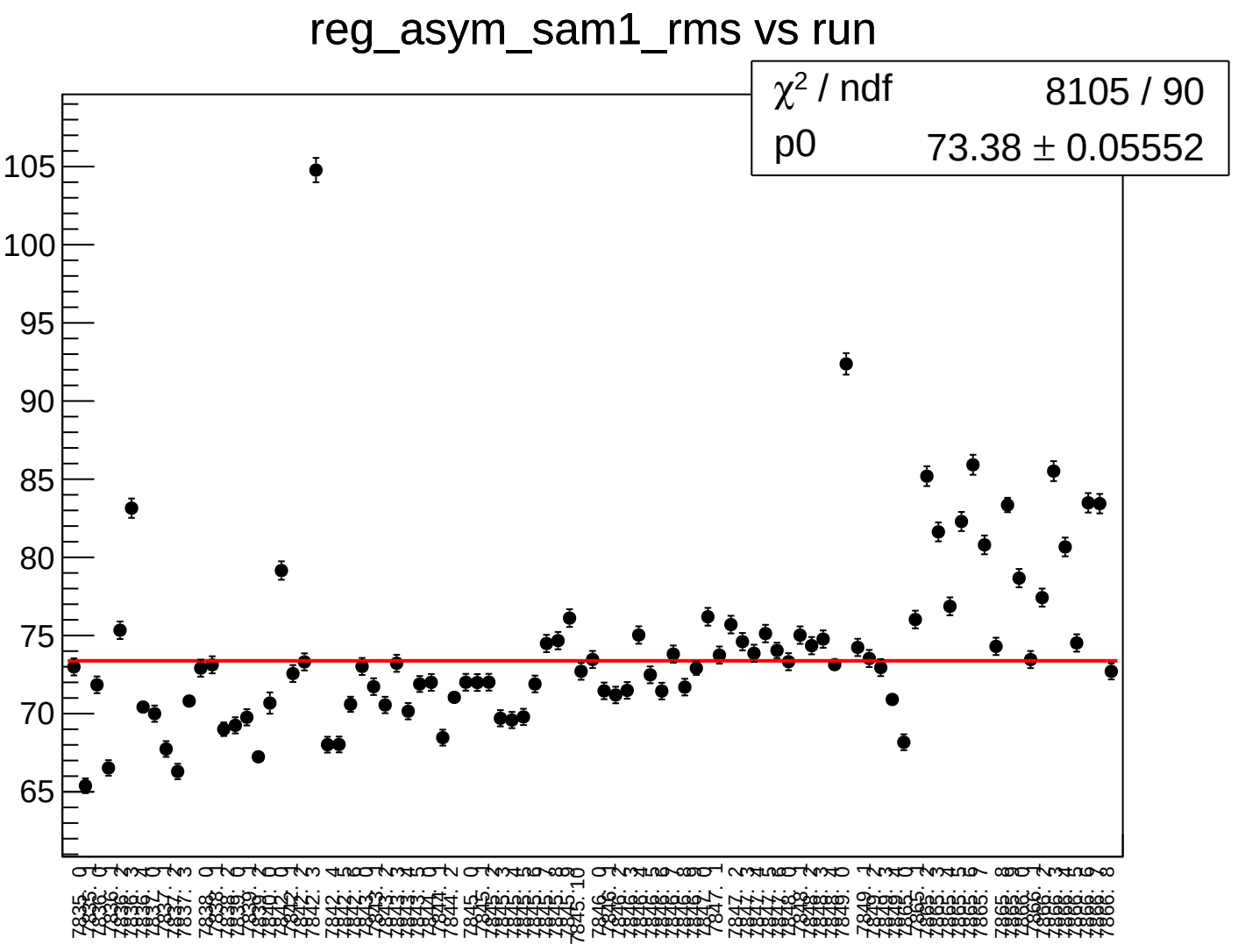

yield_sam8_mean vs run
χ² / ndf 6.717e+05 / 90
p0 9.022 ± 1.694e−05
9.08
9.06
9.04
9.02
9
pull
Entries 91
Mean 673.8
Std Dev 0
250
200
150
100
50
0
−50
−100

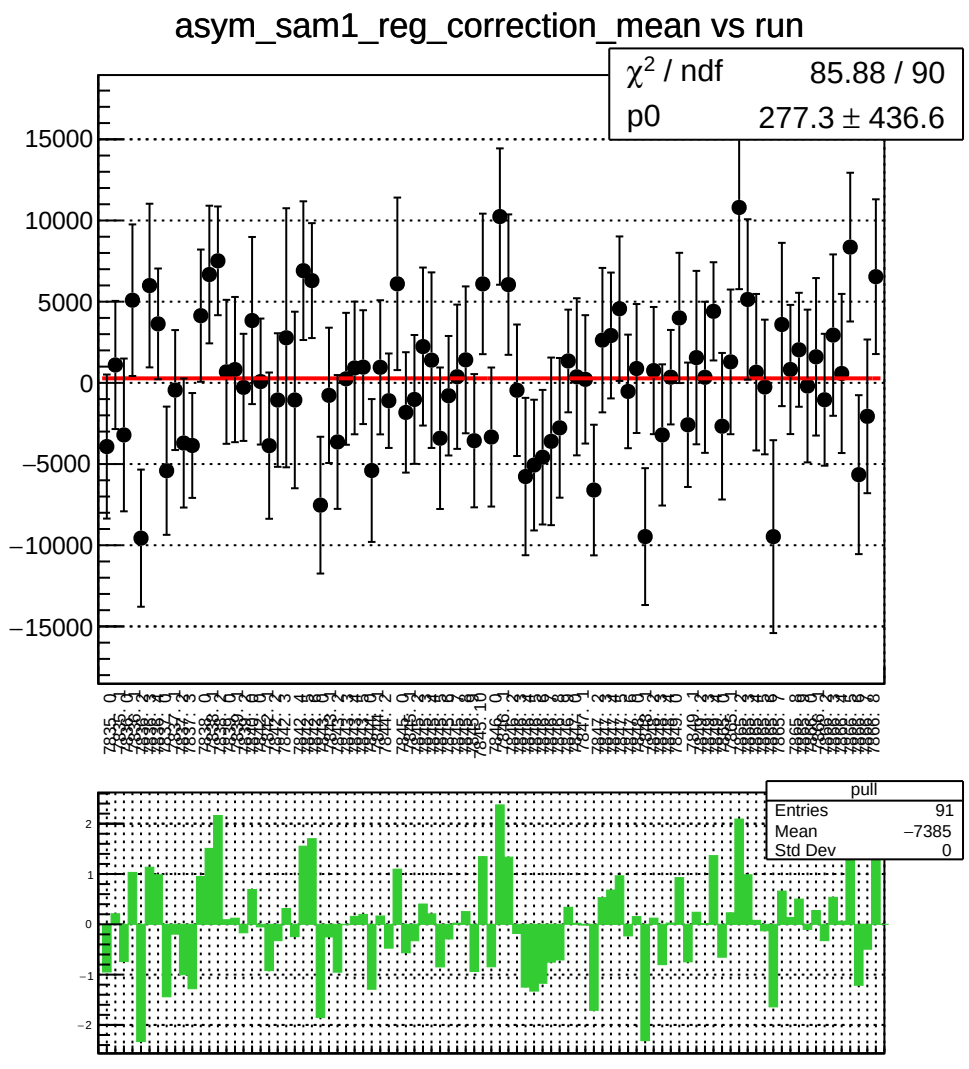

pull1D
Entries 91
Mean −2.363
Std Dev 5.27
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

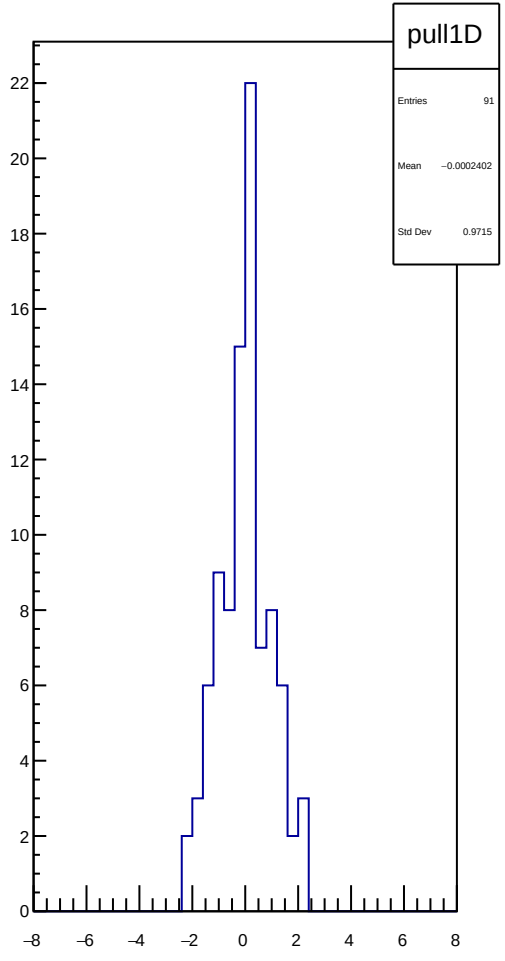

yield_sam8_rms vs run
χ² / ndf 7.174e+04 / 90
p0 0.01554 ± 1.198e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

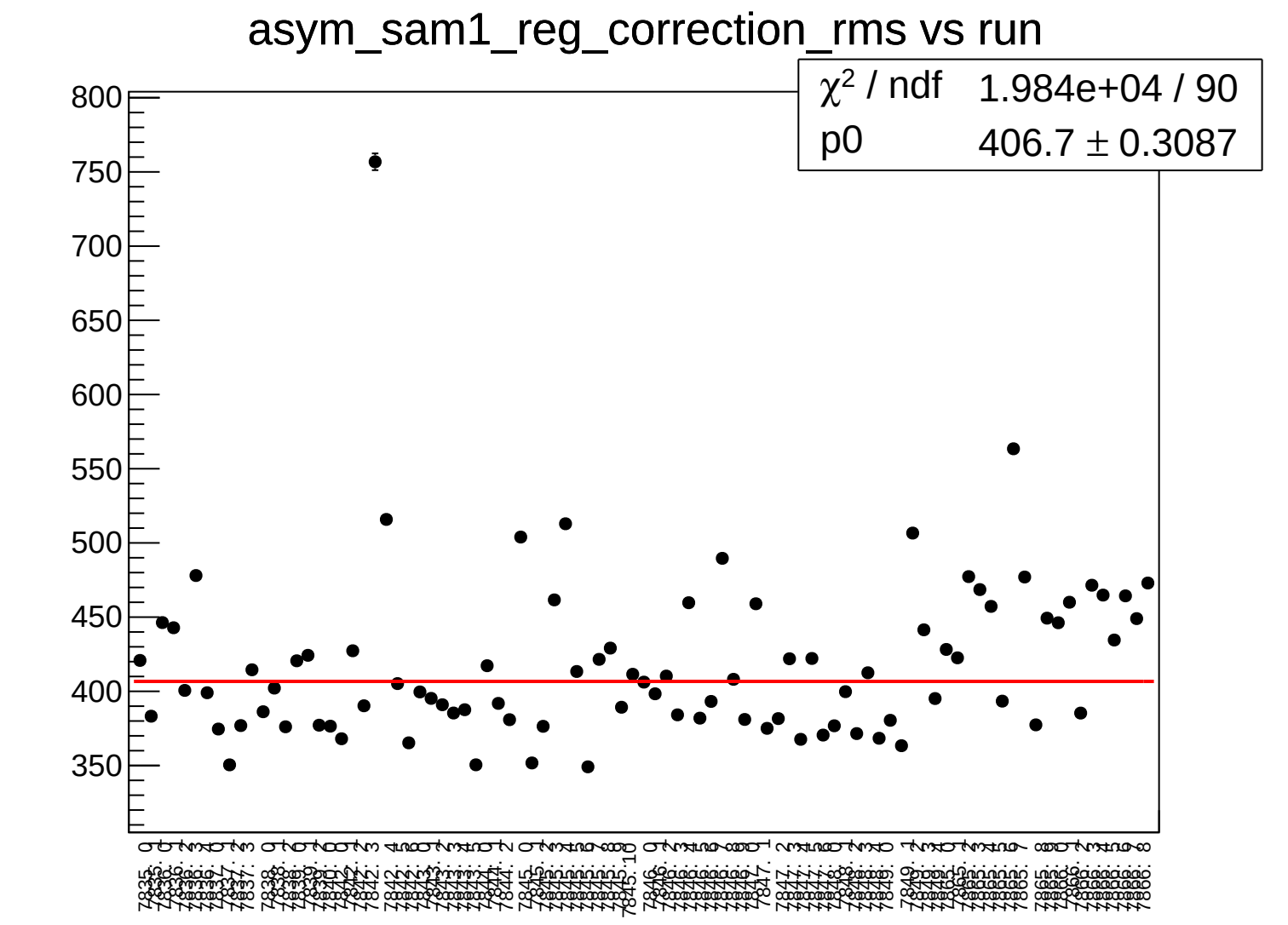

reg_asym_sam1_mean vs run
χ² / ndf 81.44 / 90
p0 −2.17 ± 78.51
pull
Entries 91
Mean 57.57
Std Dev 73.48

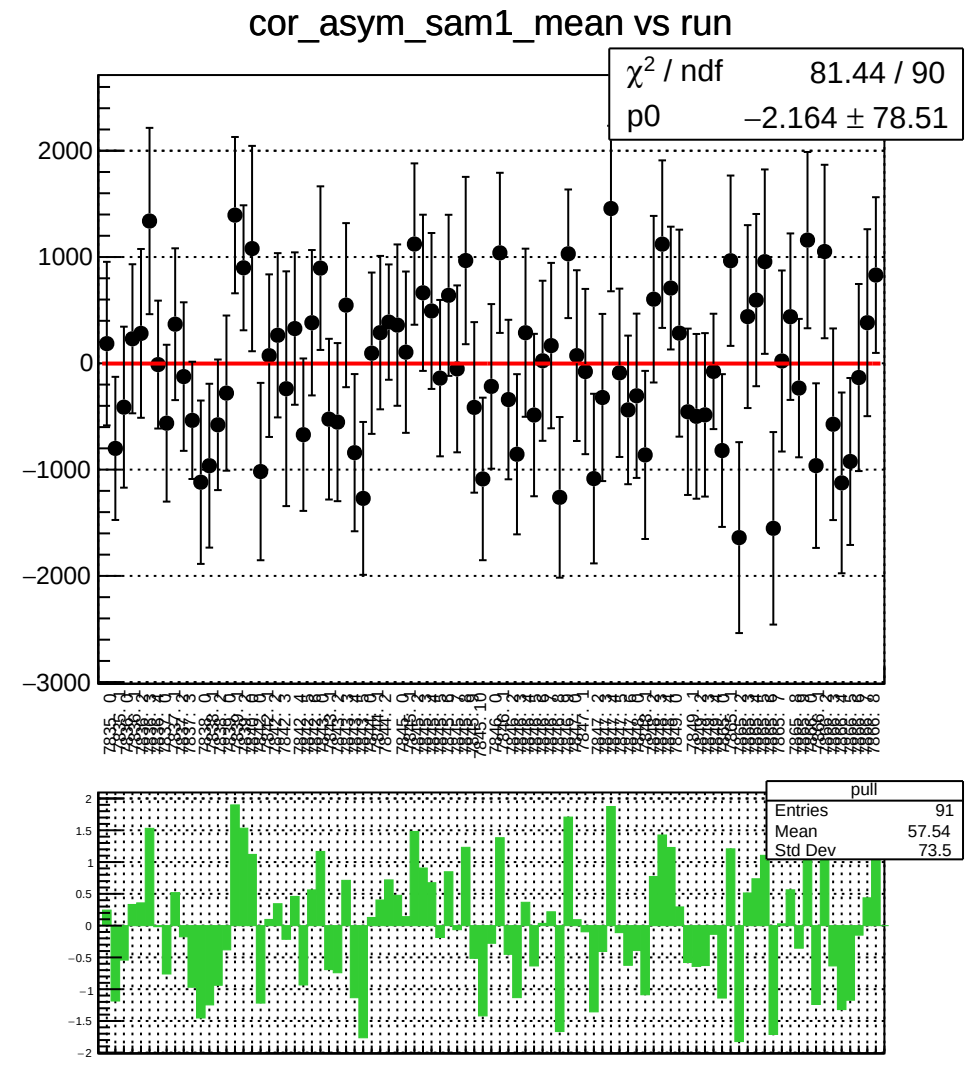

pull1D
Entries 91
Mean −0.00671
Std Dev 0.946

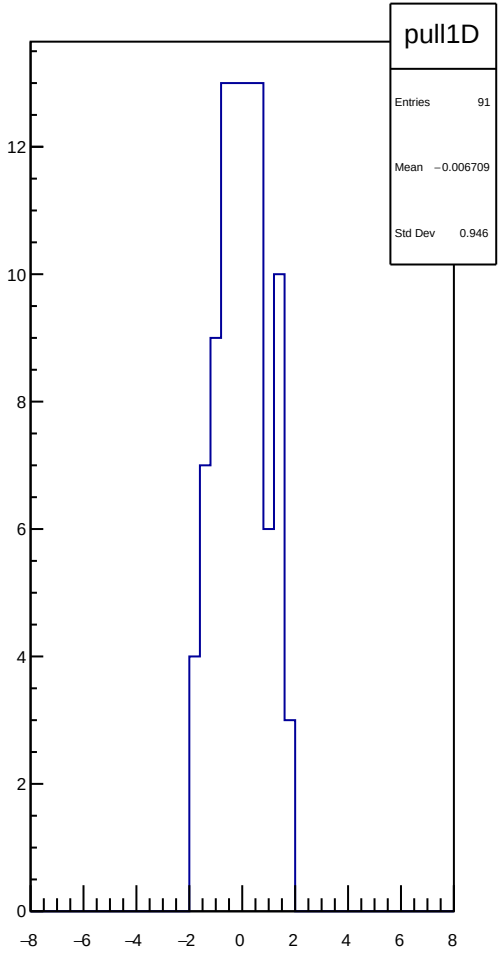

reg_asym_sam1_rms vs run
χ² / ndf 8105 / 90
p0 73.38 ± 0.05552
105
100
95
90
85
80
75
70
65

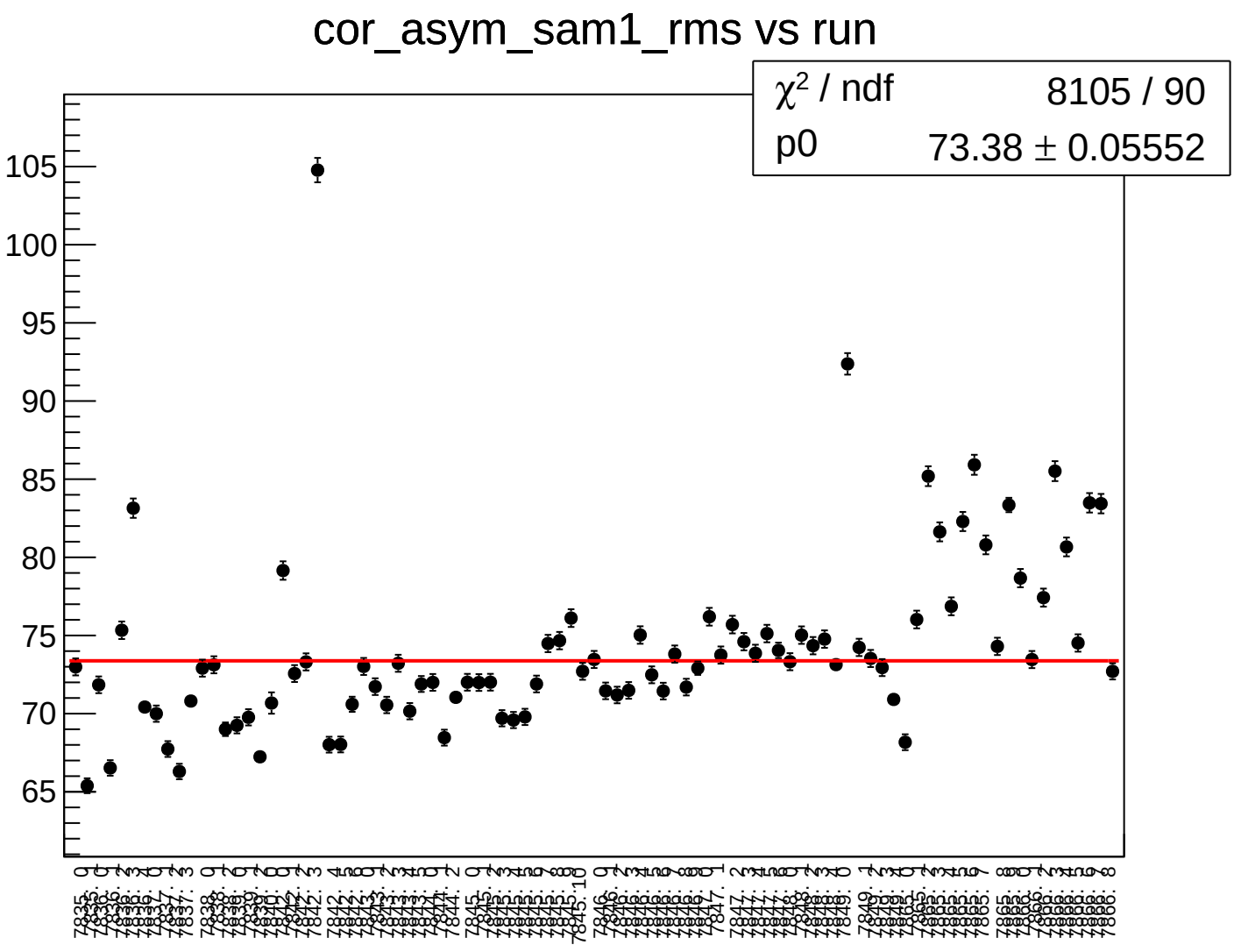

asym_sam1_reg_correction_mean vs run
χ² / ndf 85.88 / 90
p0 277.3 ± 436.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −7385
Std Dev 0
2
1
0
−1
−2

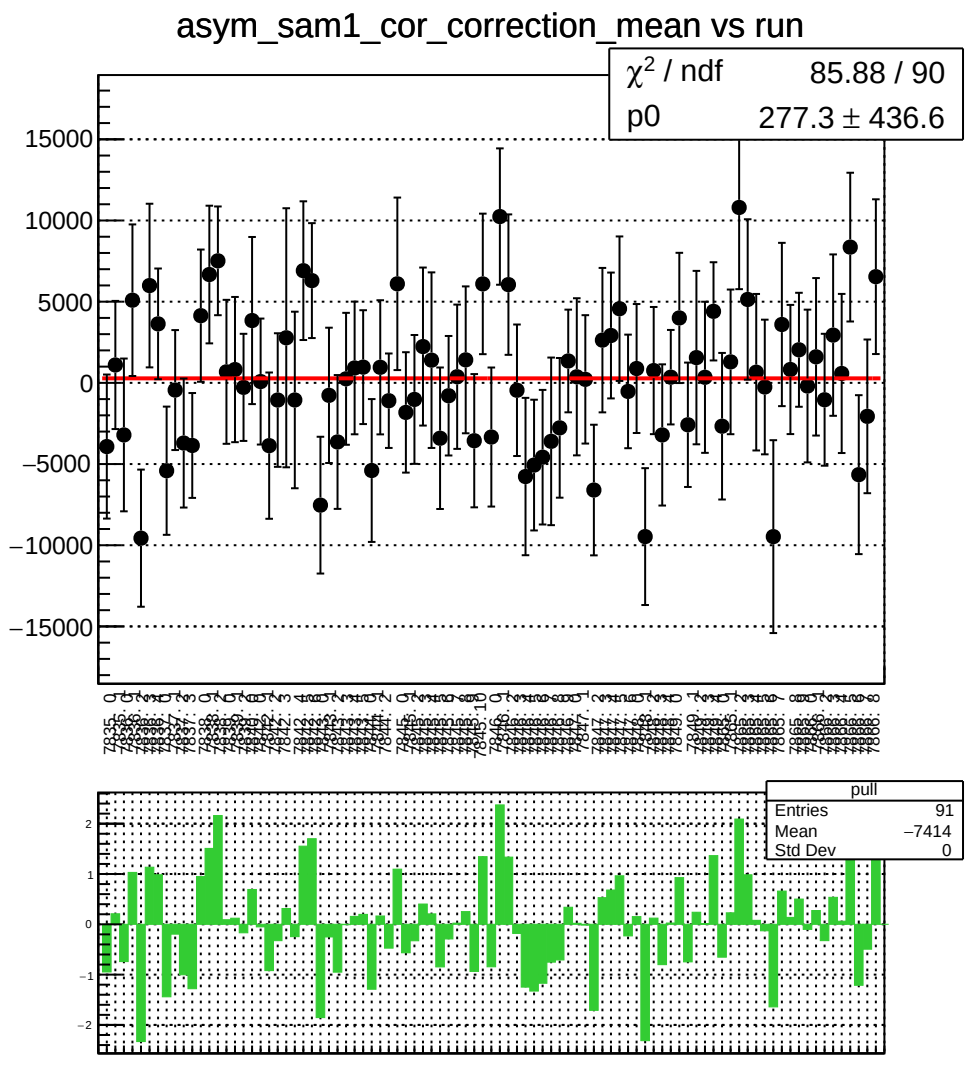

pull1D
Entries 91
Mean −0.0002402
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

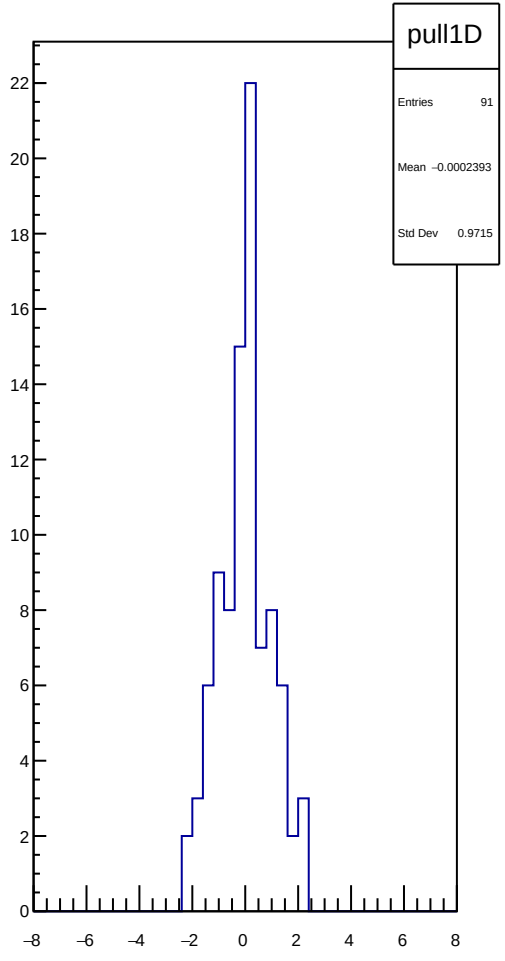

asym_sam1_reg_correction_rms vs run
χ^2 / ndf 1.984e+04 / 90
p0 406.7 ± 0.3087
800
750
700
650
600
550
500
450
400
350

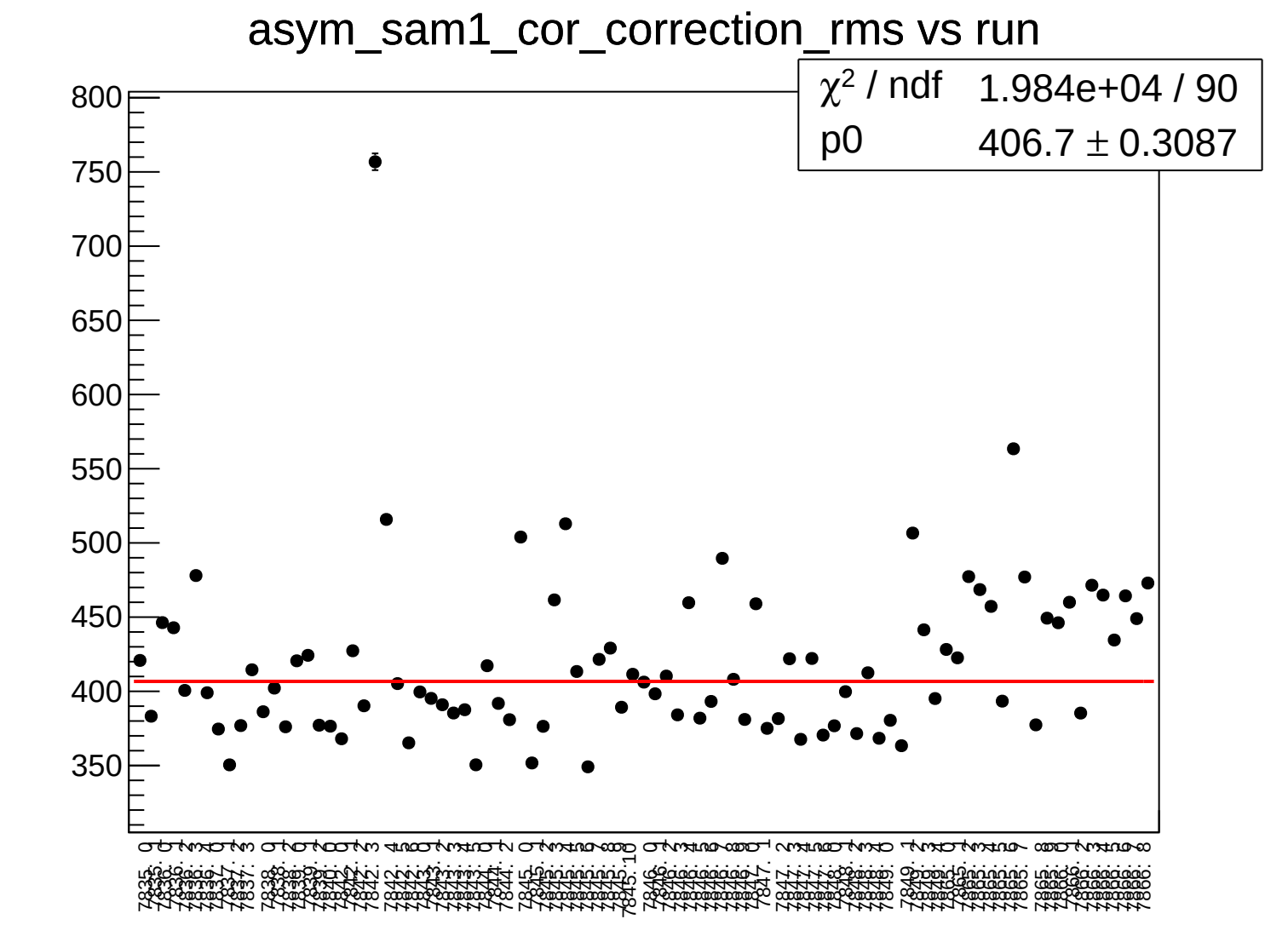

cor_asym_sam1_mean vs run
χ² / ndf 81.44 / 90
p0 −2.164 ± 78.51
pull
Entries 91
Mean 57.54
Std Dev 73.5

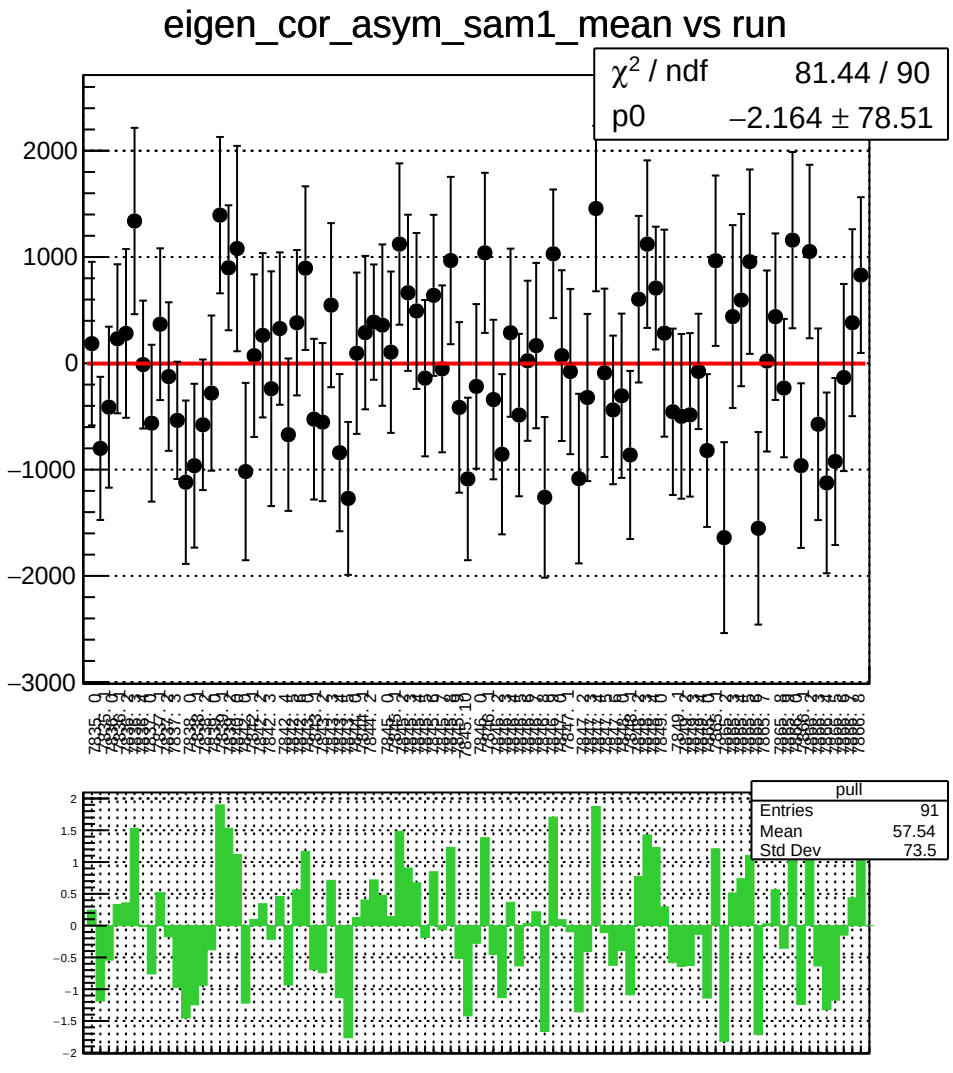

pull1D
Entries 91
Mean −0.006709
Std Dev 0.946

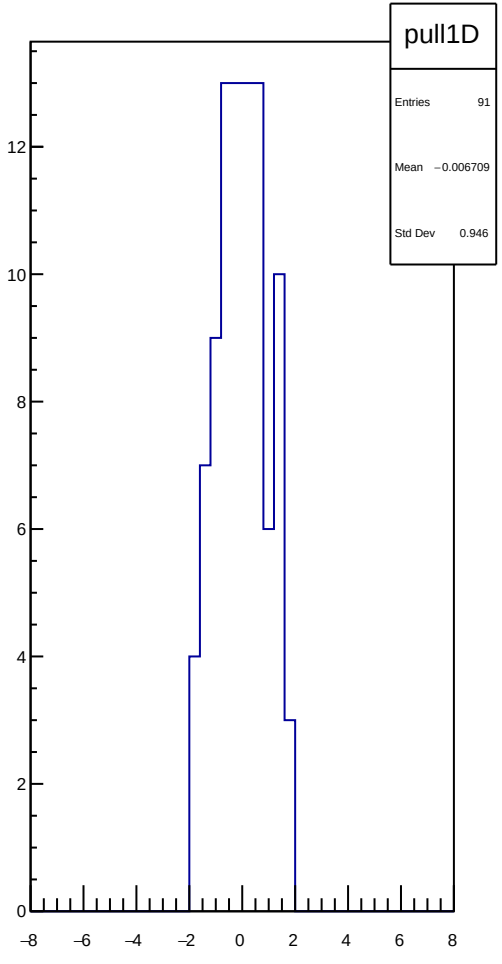

cor_asym_sam1_rms vs run
χ² / ndf 8105 / 90
p0 73.38 ± 0.05552
105
100
95
90
85
80
75
70
65

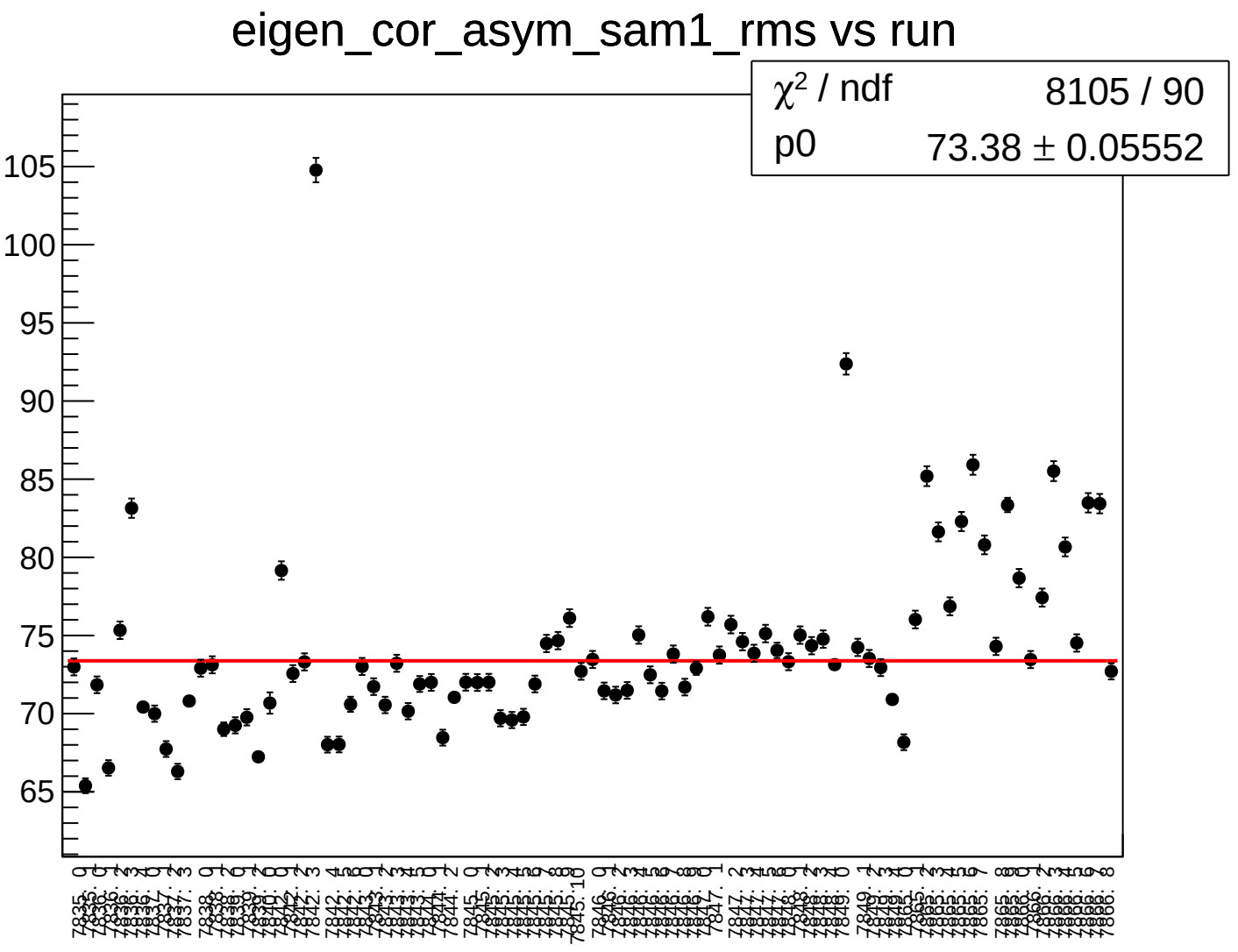

asym_sam1_cor_correction_mean vs run
χ² / ndf 85.88 / 90
p0 277.3 ± 436.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −7414
Std Dev 0
2
1
0
−1
−2

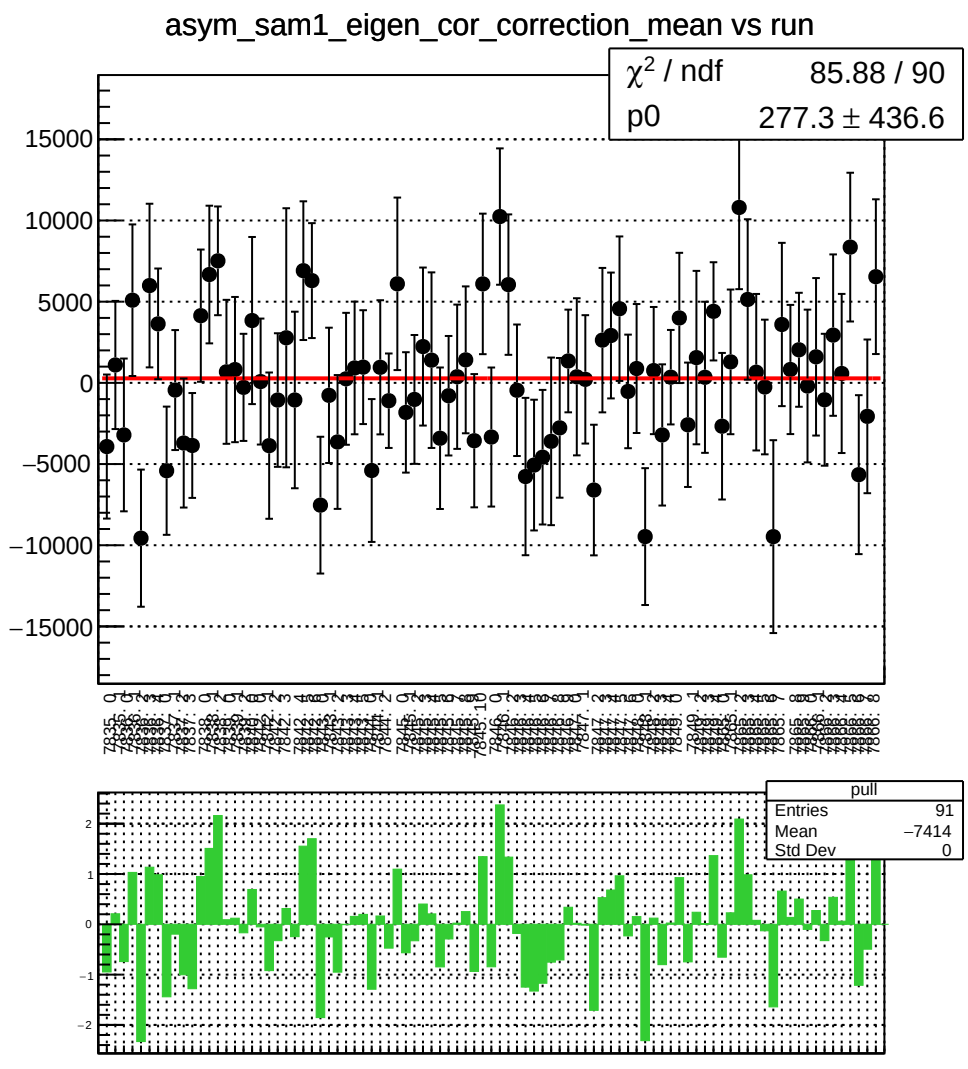

pull1D
Entries 91
Mean −0.0002393
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

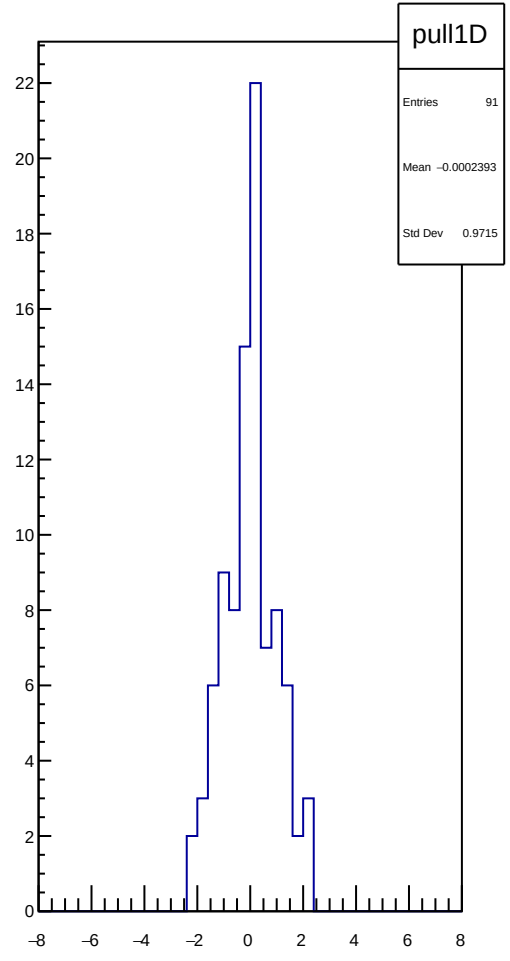

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.984e+04 / 90
p0 406.7 ± 0.3087
800
750
700
650
600
550
500
450
400
350

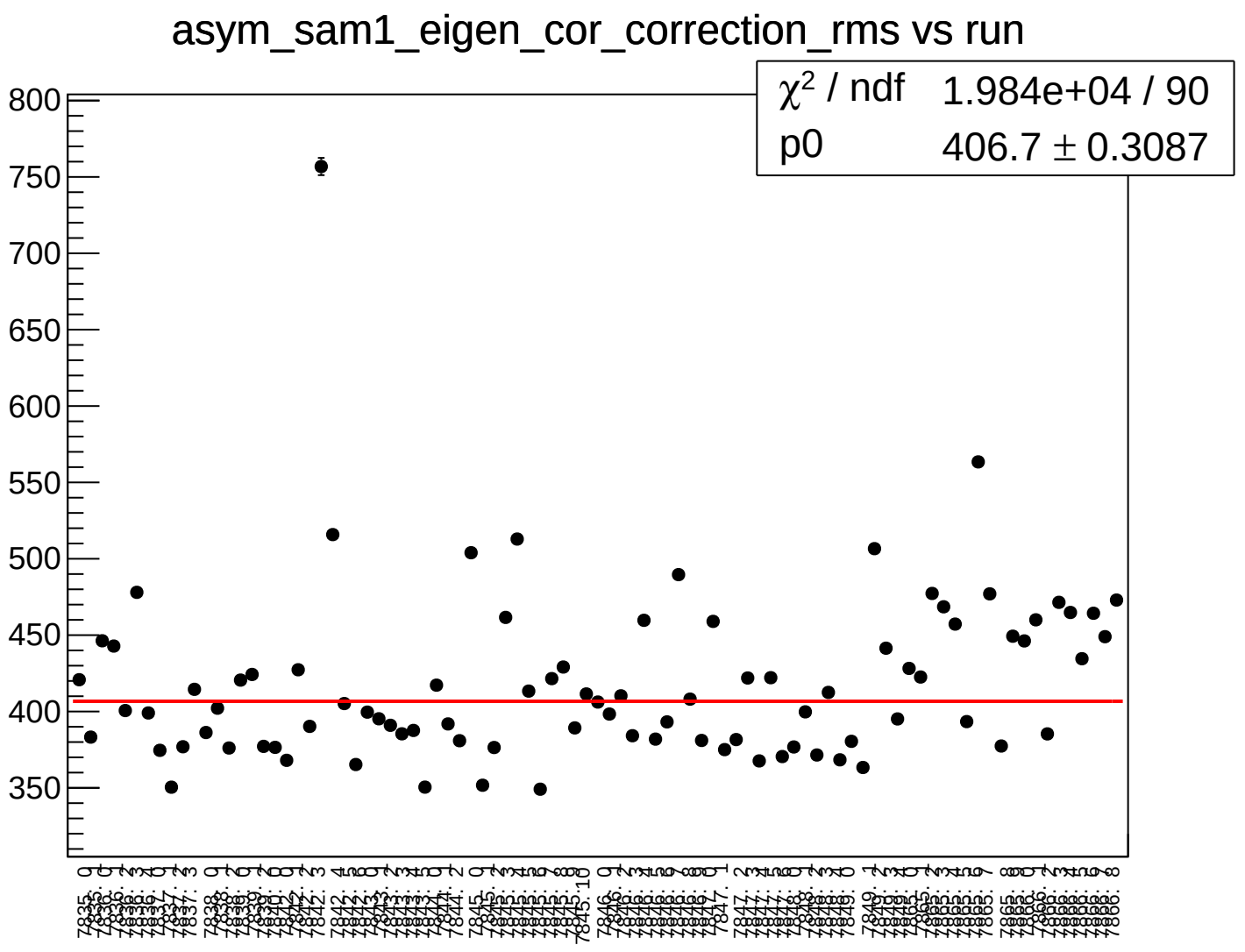

eigen_cor_asym_sam1_mean vs run
χ² / ndf 81.44 / 90
p0 −2.164 ± 78.51
pull
Entries 91
Mean 57.54
Std Dev 73.5

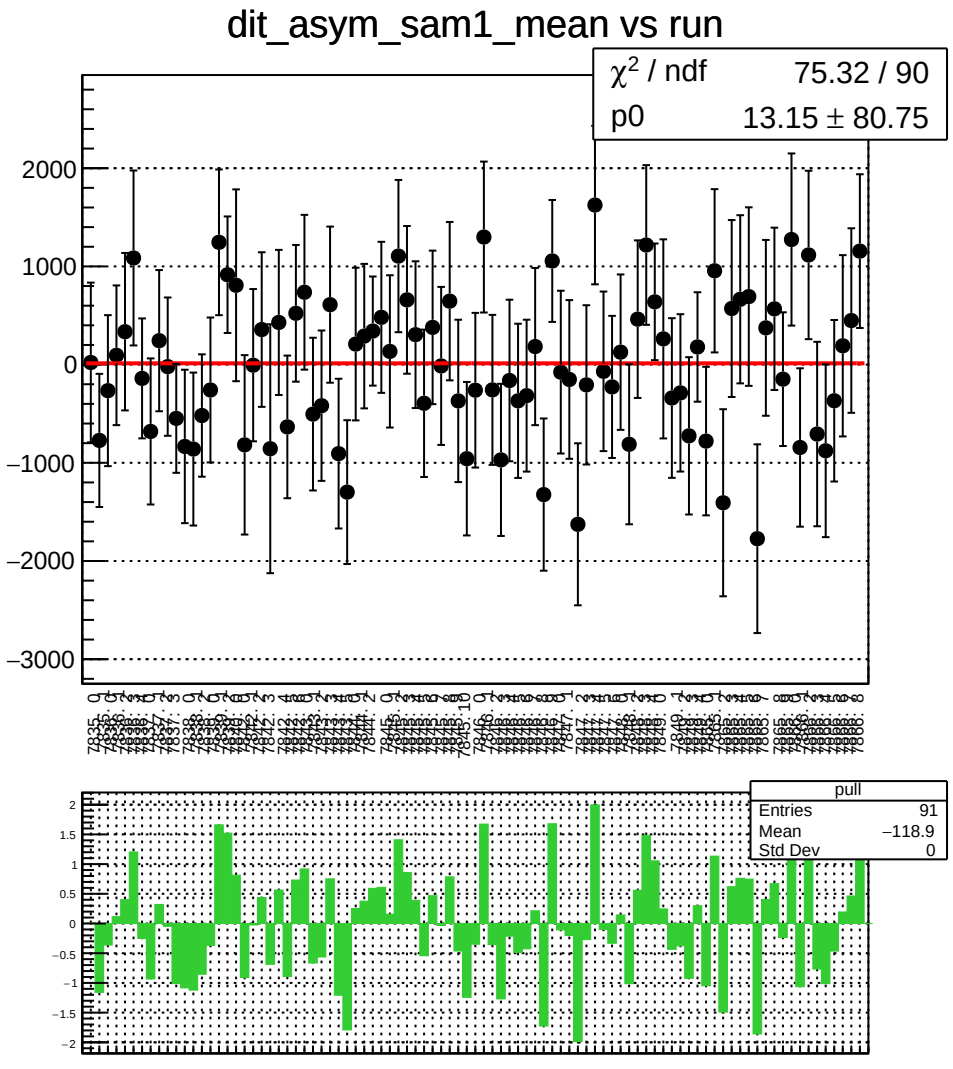

pull1D
Entries 91
Mean −0.006709
Std Dev 0.946

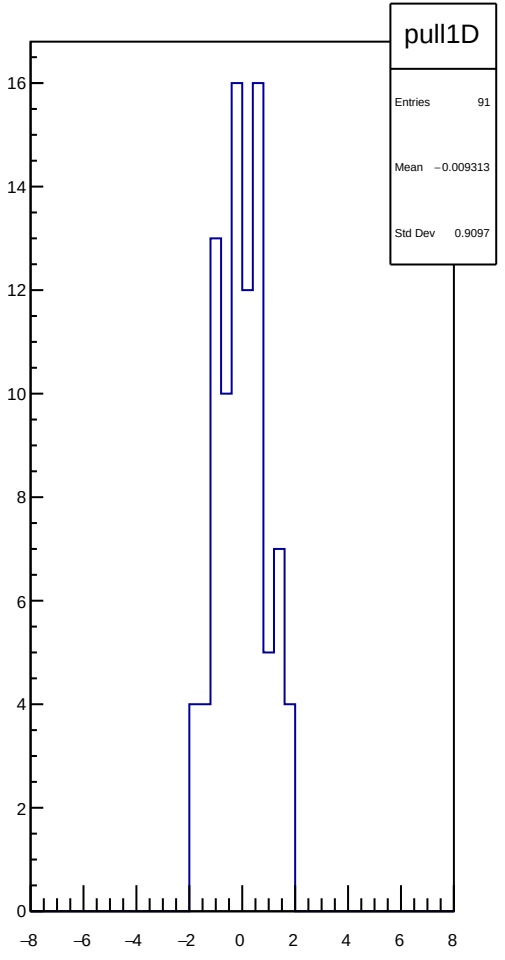

eigen_cor_asym_sam1_rms vs run
χ² / ndf 8105 / 90
p0 73.38 ± 0.05552
105
100
95
90
85
80
75
70
65

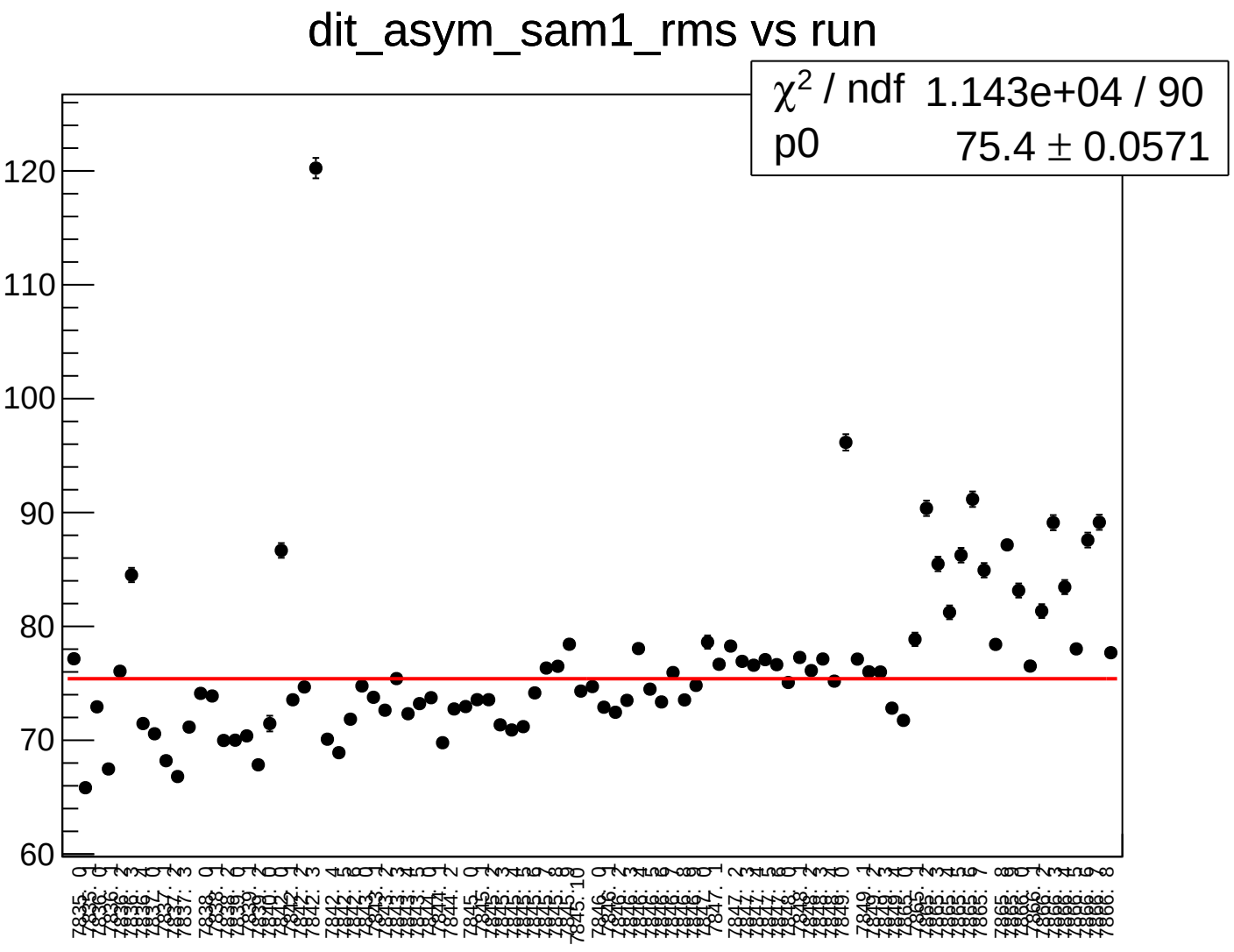

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 85.88 / 90
p0 277.3 ± 436.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −7414
Std Dev 0
2
1
0
−1
−2

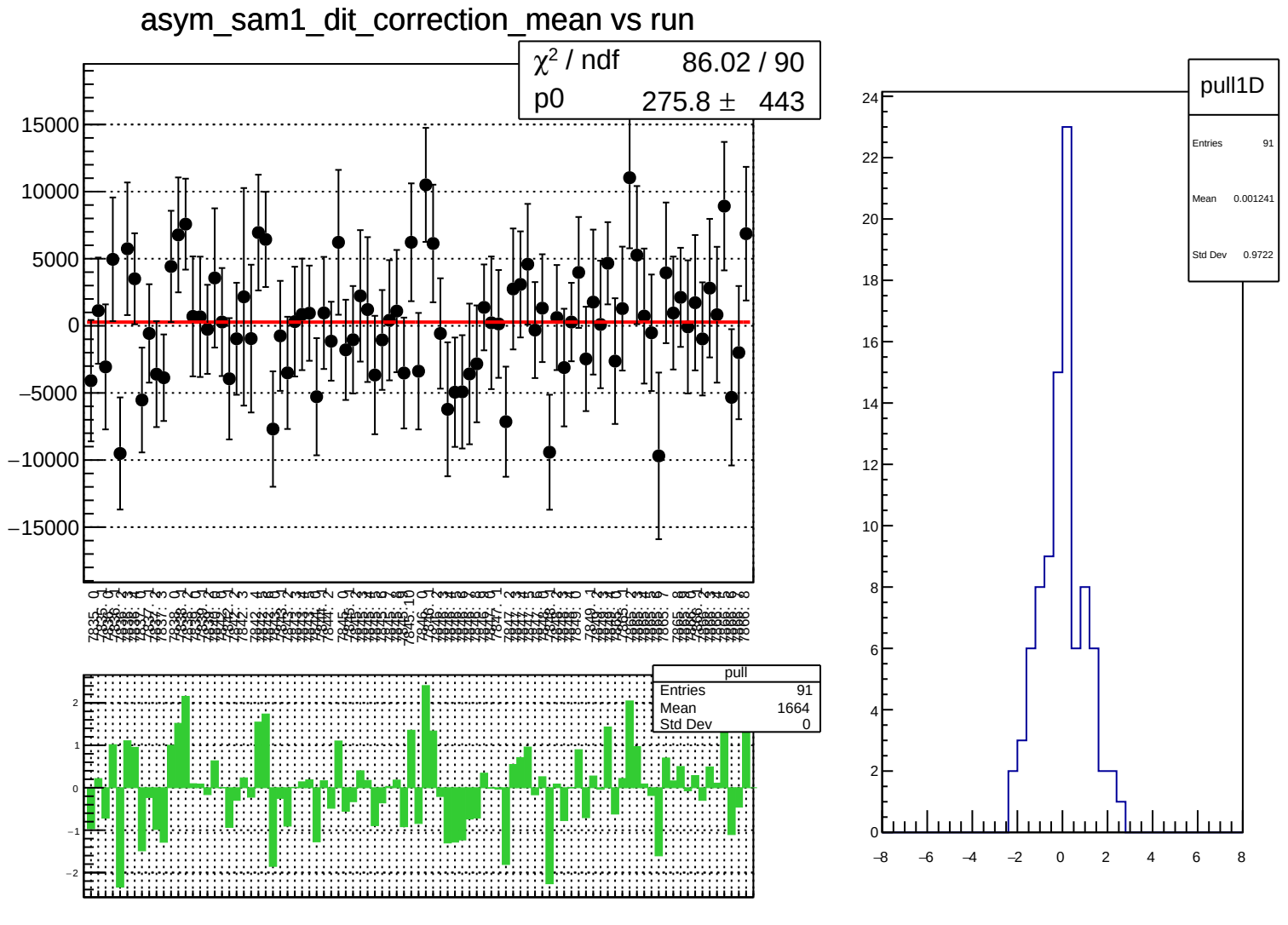

pull1D
Entries 91
Mean −0.0002393
Std Dev 0.9715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

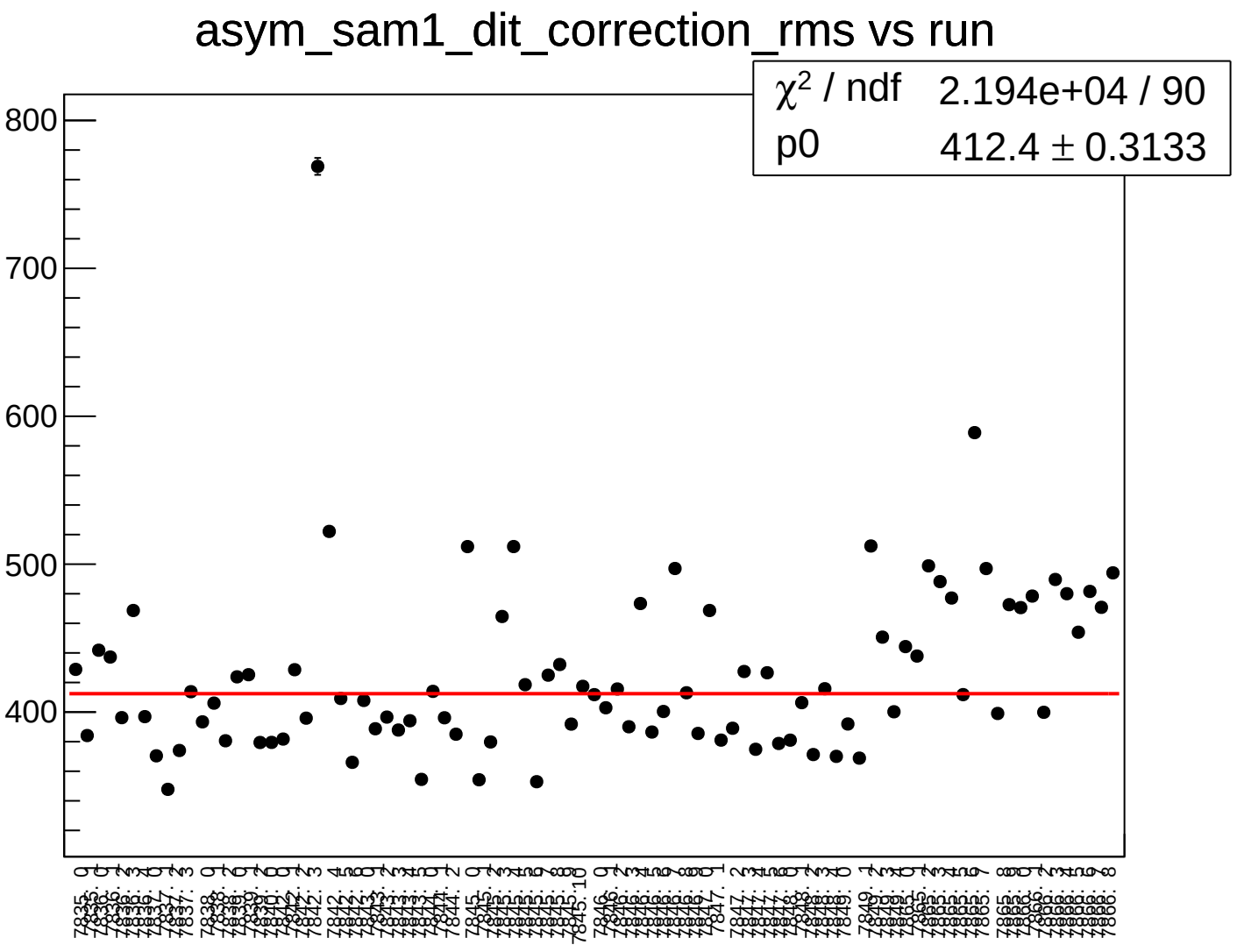

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.984e+04 / 90
p0 406.7 ± 0.3087
800
750
700
650
600
550
500
450
400
350

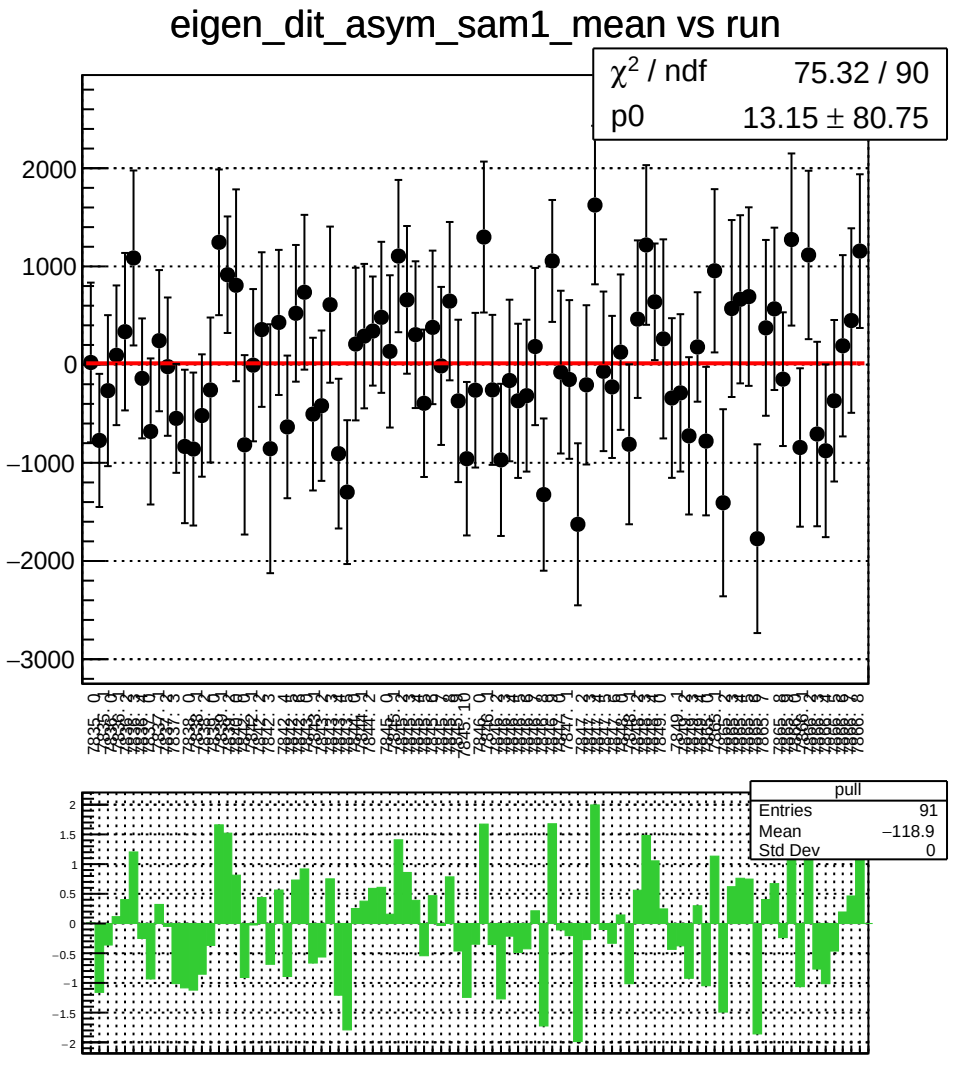

dit_asym_sam1_mean vs run
χ^2 / ndf 75.32 / 90
p0 13.15 ± 80.75
pull
Entries 91
Mean −118.9
Std Dev 0

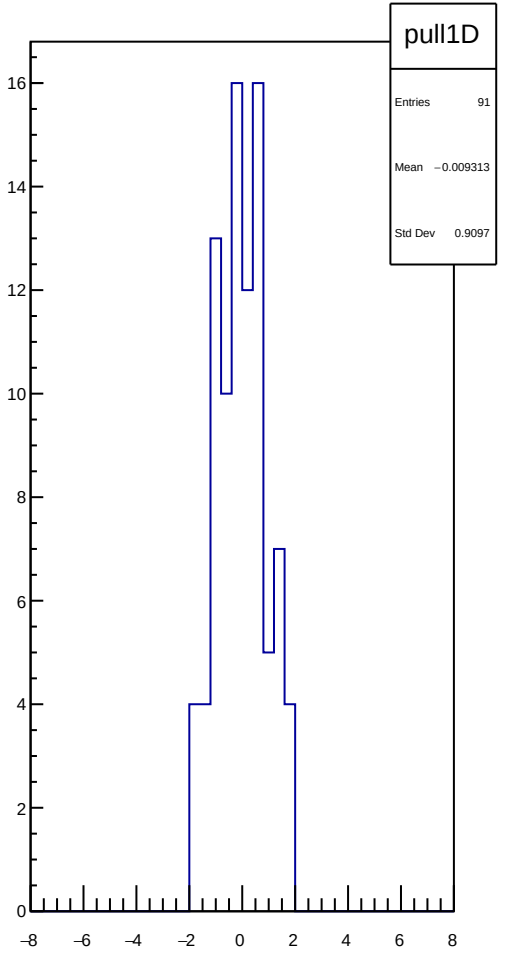

pull1D
Entries 91
Mean −0.009313
Std Dev 0.9097

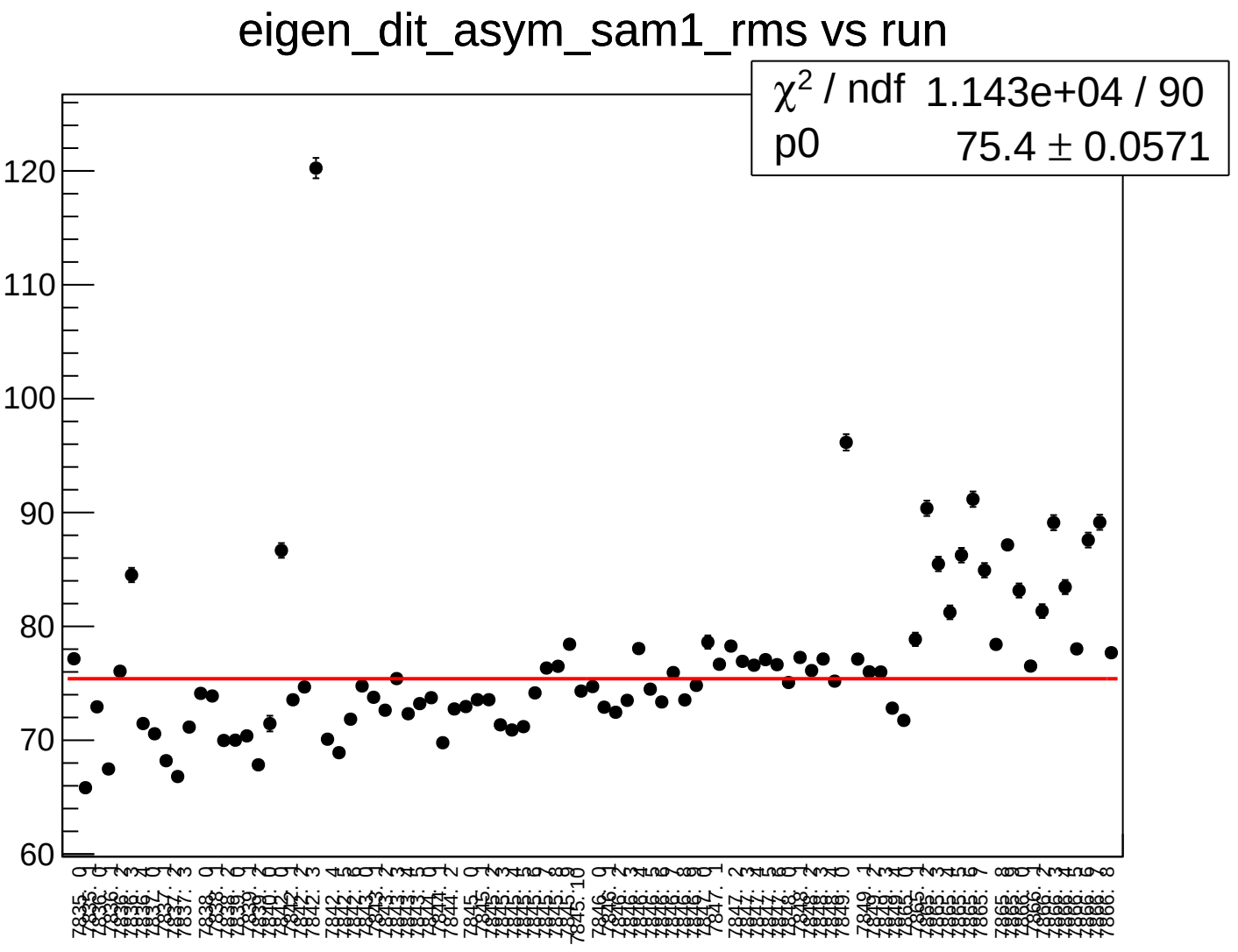

dit_asym_sam1_rms vs run
χ^2 / ndf 1.143e+04 / 90
p0 75.4 ± 0.0571
120
110
100
90
80
70
60

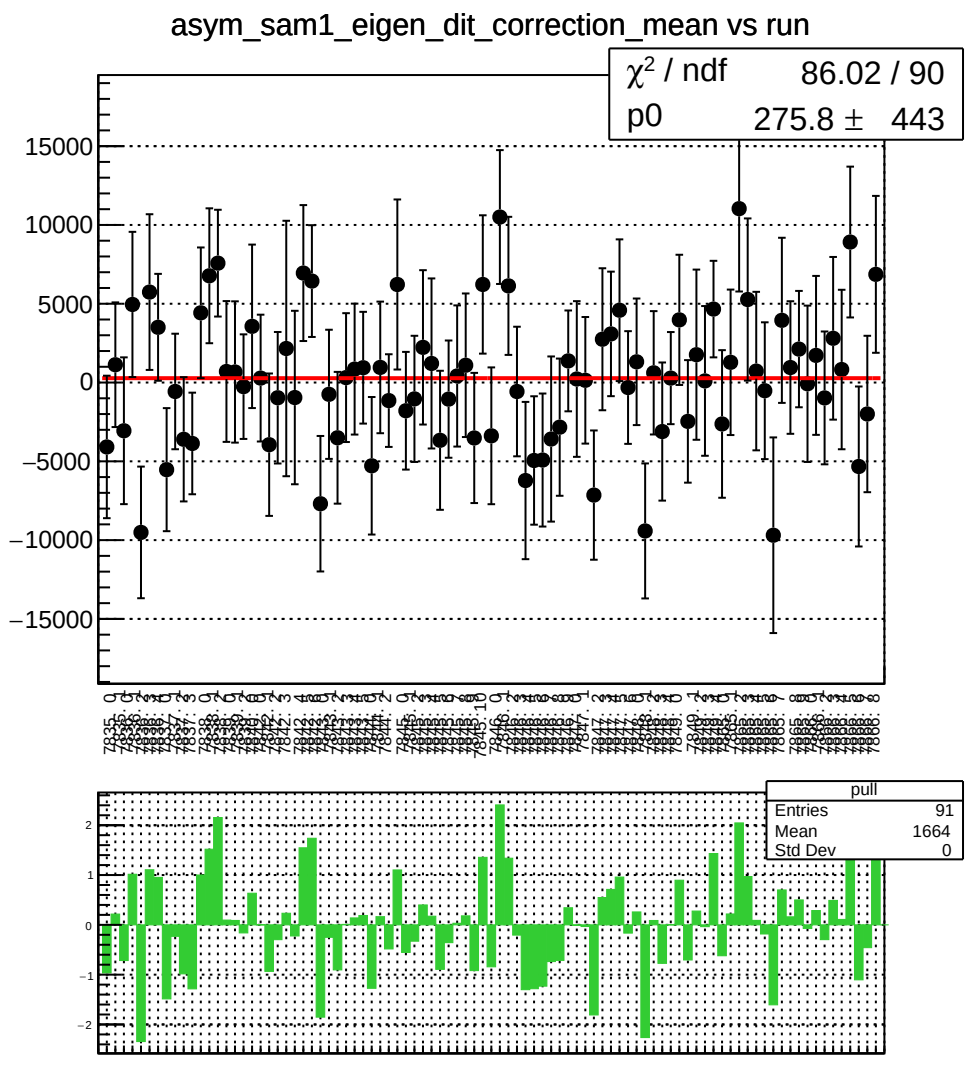

asym_sam1_dit_correction_mean vs run
χ² / ndf 86.02 / 90
p0 275.8 ± 443
pull
Entries 91
Mean 1664
Std Dev 0
pull1D
Entries 91
Mean 0.001241
Std Dev 0.9722

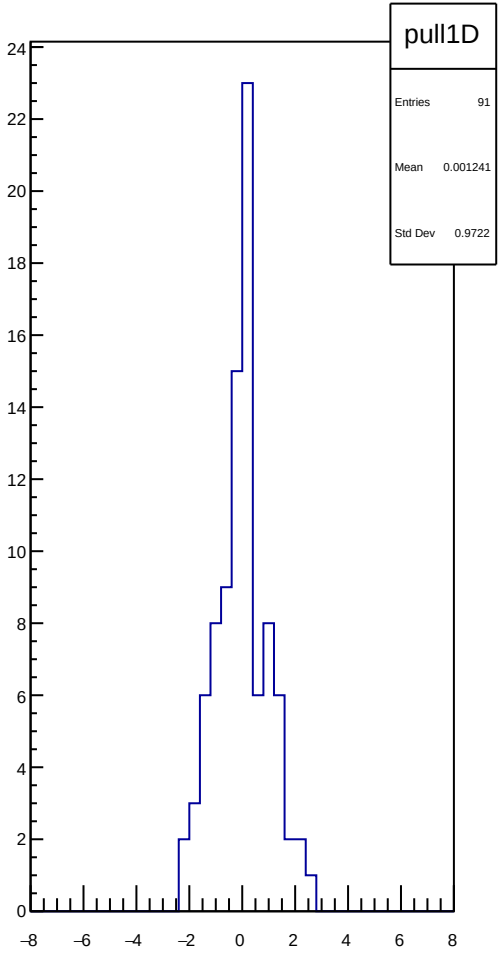

asym_sam1_dit_correction_rms vs run
χ² / ndf 2.194e+04 / 90
p0 412.4 ± 0.3133
800
700
600
500
400

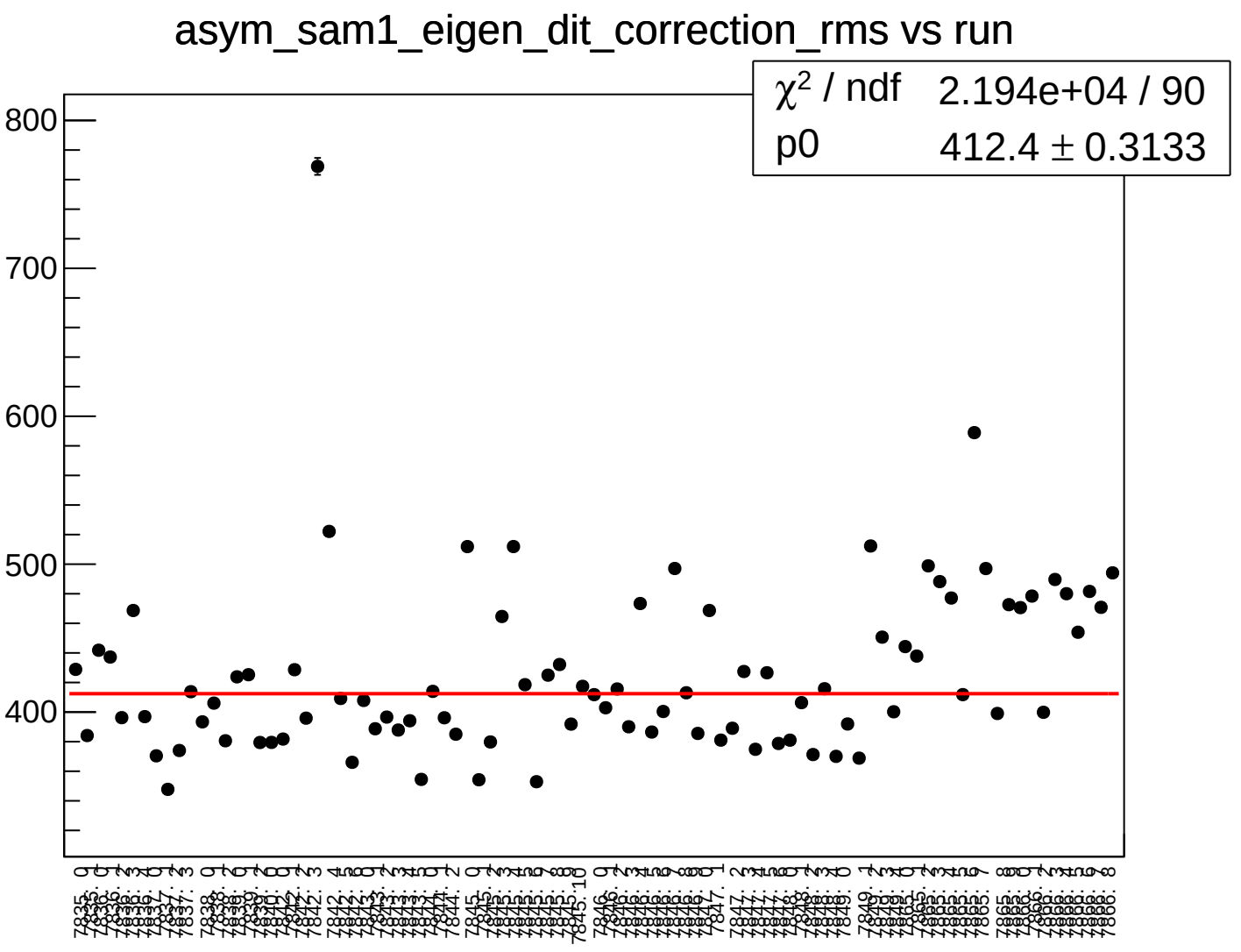

eigen_dit_asym_sam1_mean vs run
χ² / ndf 75.32 / 90
p0 13.15 ± 80.75
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −118.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

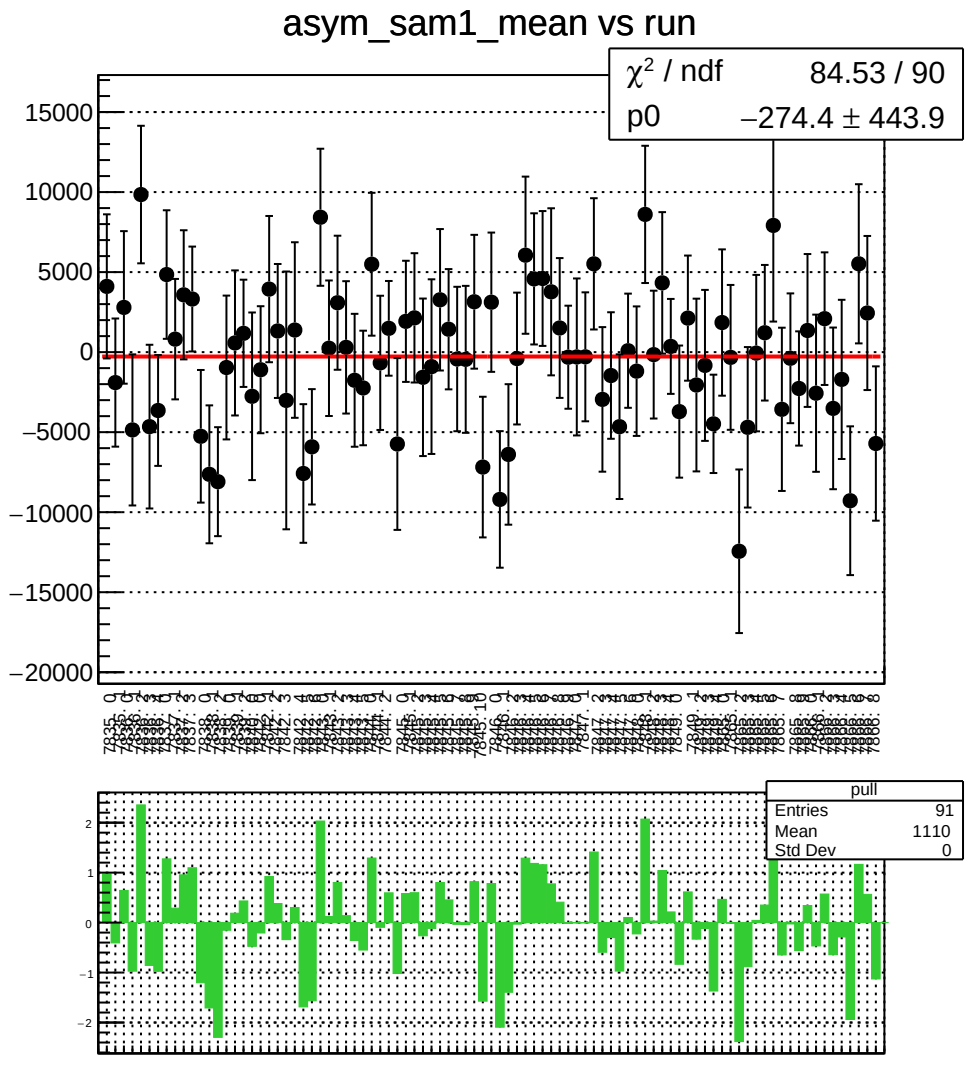

pull1D
Entries 91
Mean −0.009313
Std Dev 0.9097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

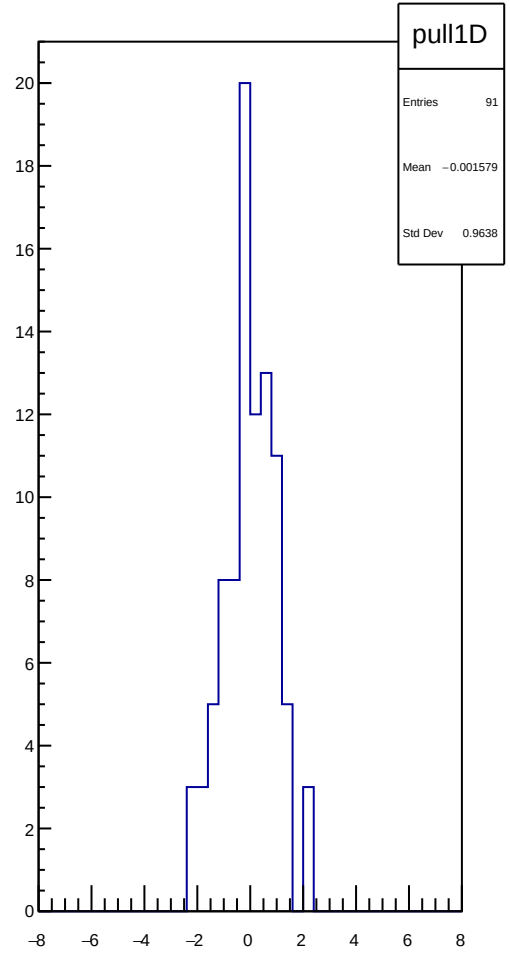

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1.143e+04 / 90
p0 75.4 ± 0.0571
120
110
100
90
80
70
60

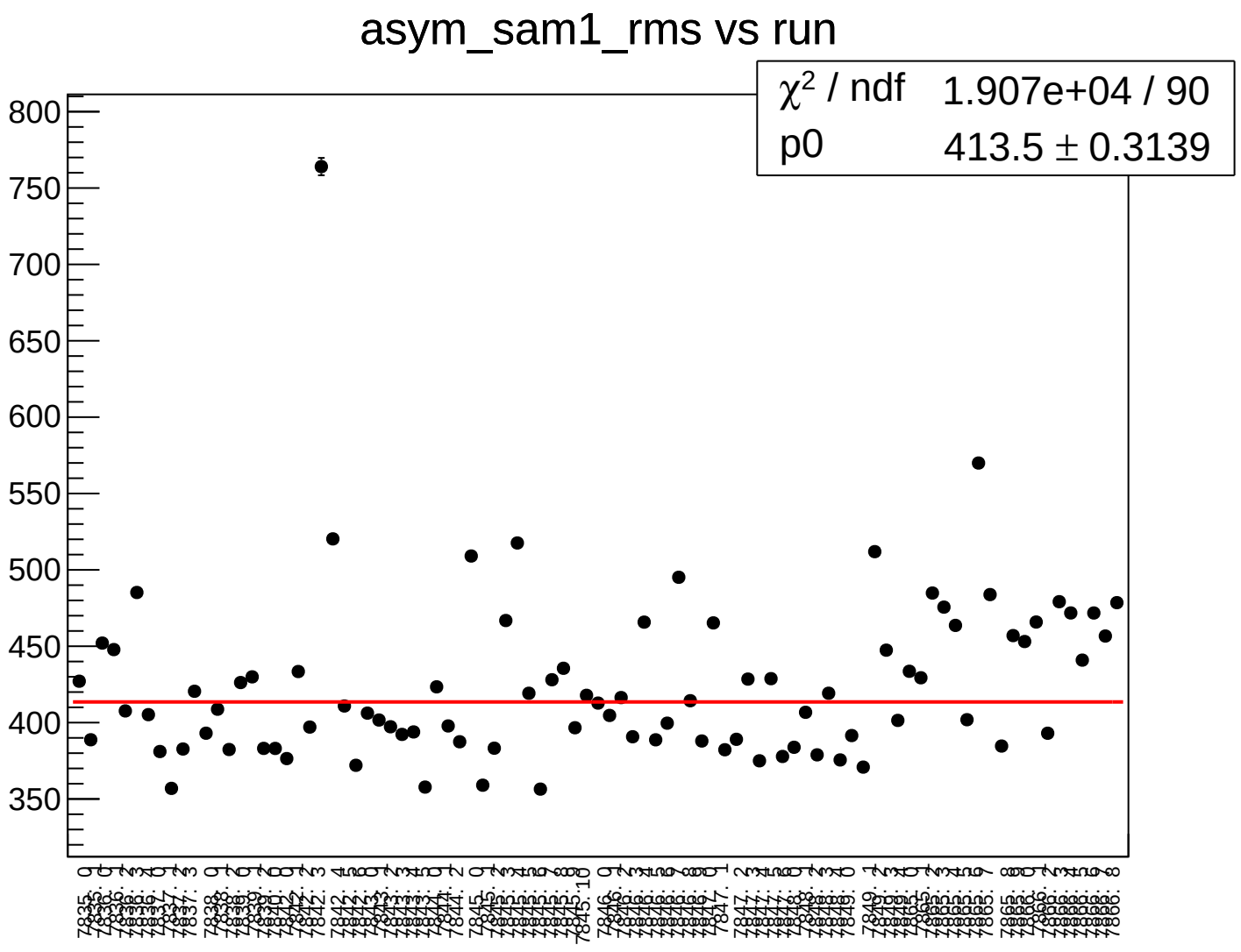

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 86.02 / 90
p0 275.8 ± 443
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 1664
Std Dev 0
2
1
0
−1
−2

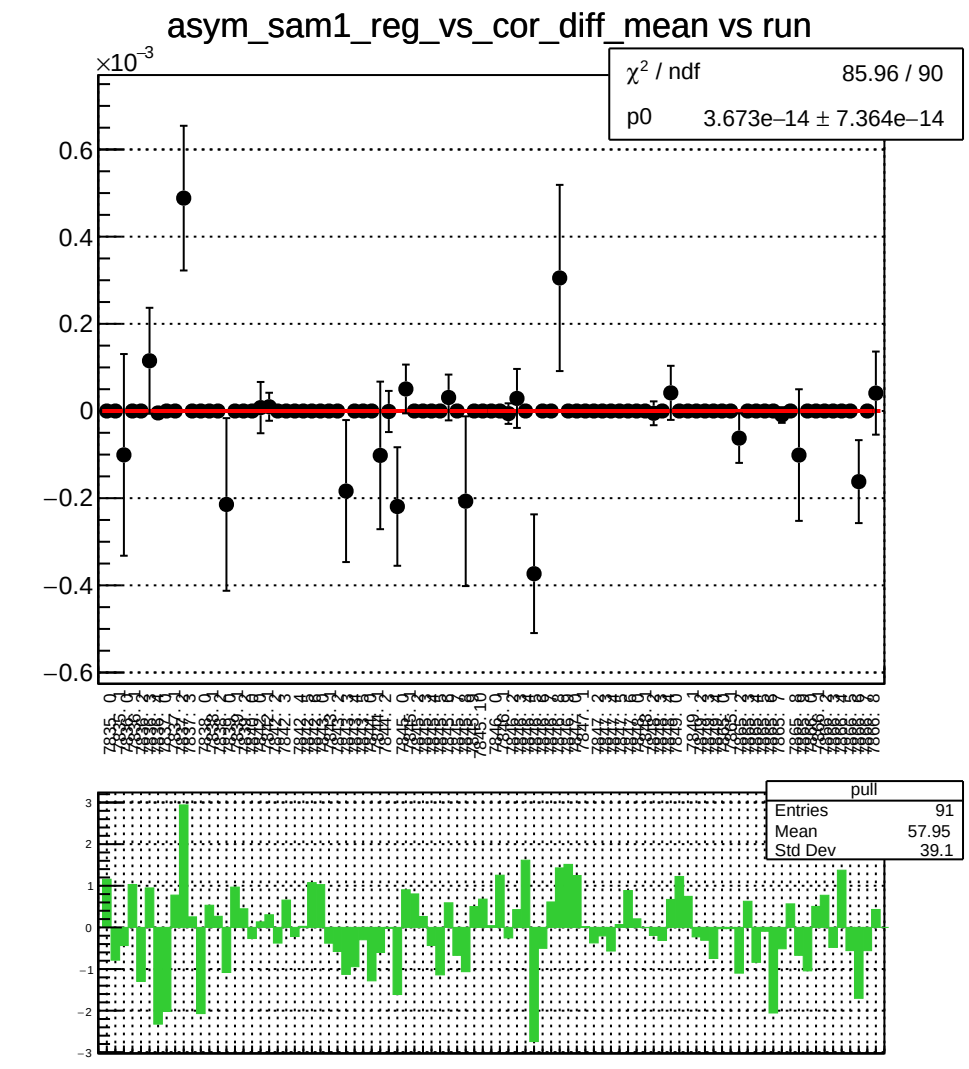

pull1D
Entries 91
Mean 0.001241
Std Dev 0.9722
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

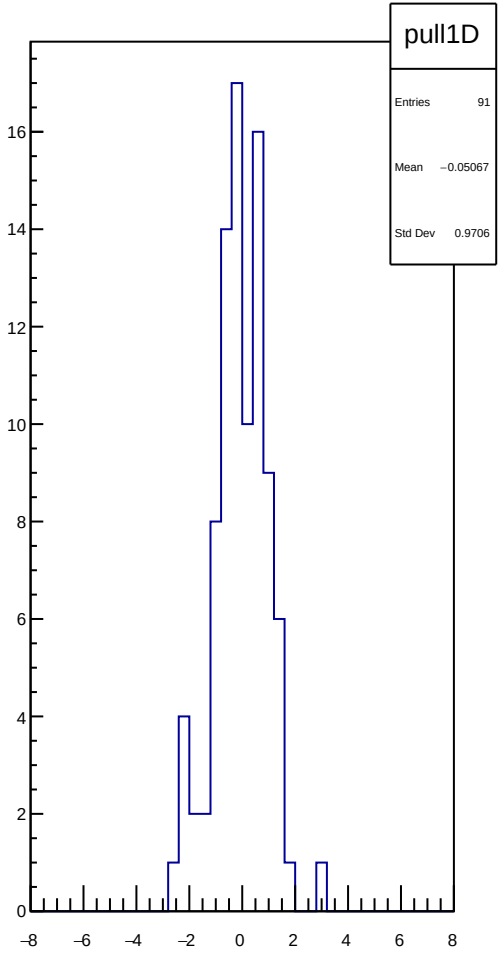

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2.194e+04 / 90
p0 412.4 ± 0.3133
800
700
600
500
400

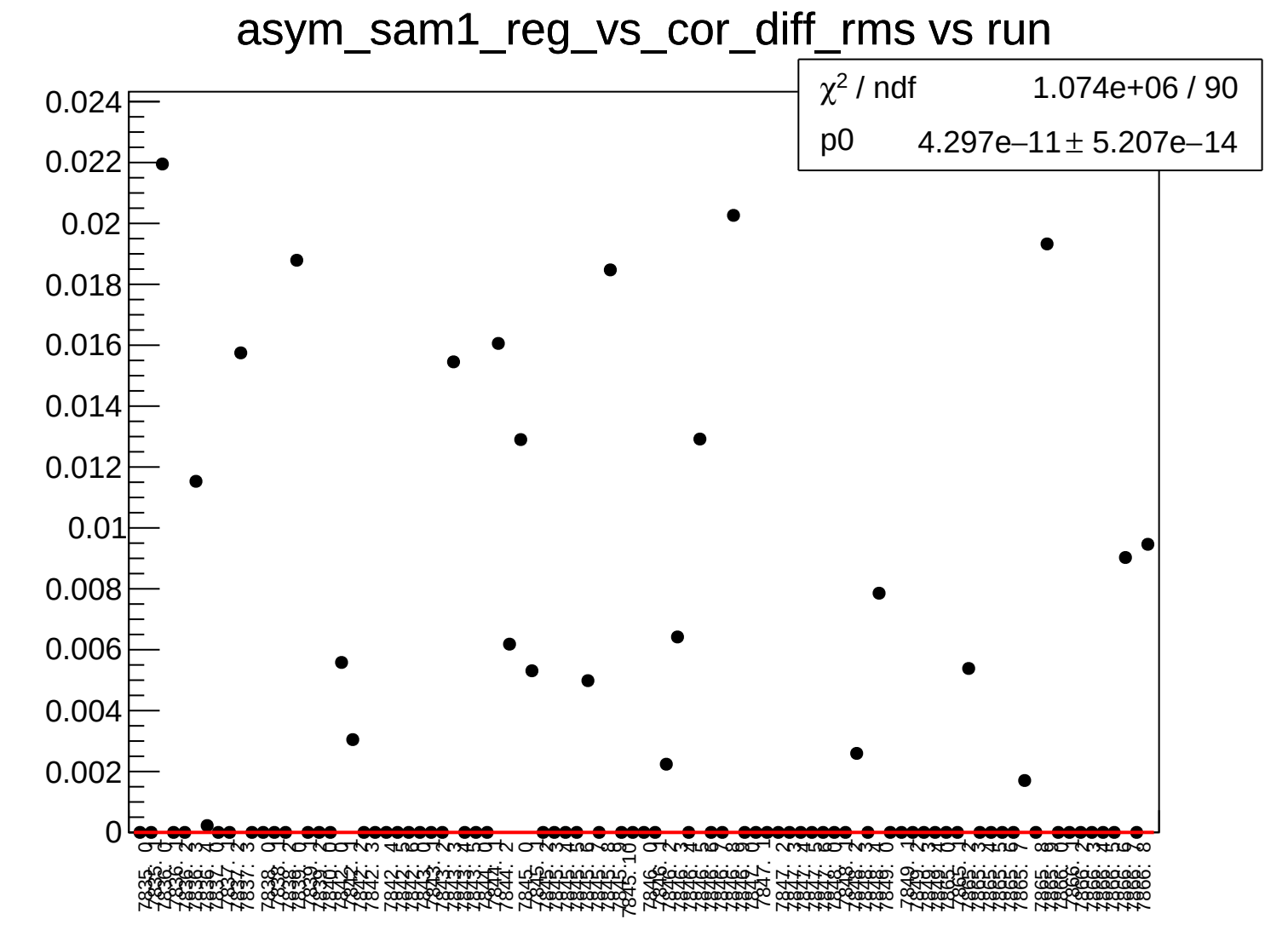

asym_sam1_mean vs run
χ² / ndf 84.53 / 90
p0 −274.4 ± 443.9
pull
Entries 91
Mean 1110
Std Dev 0

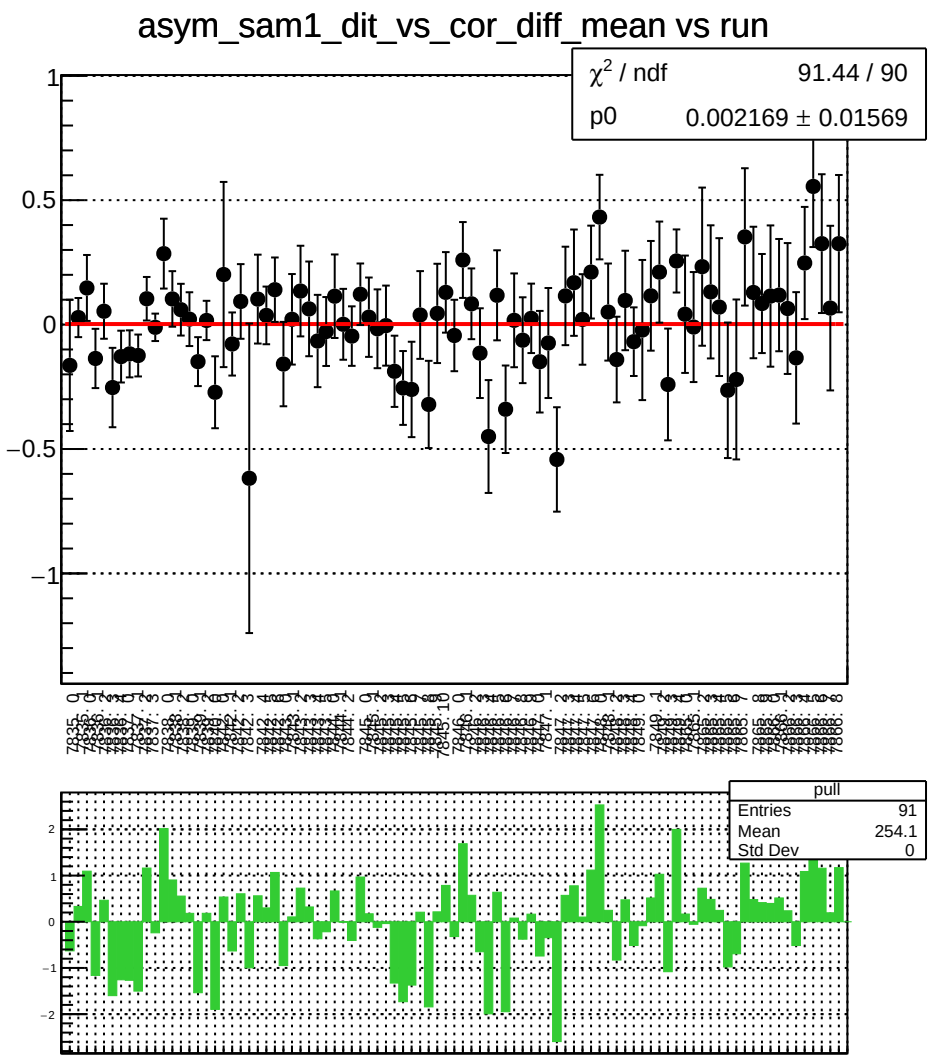

pull1D
Entries 91
Mean −0.001579
Std Dev 0.9638

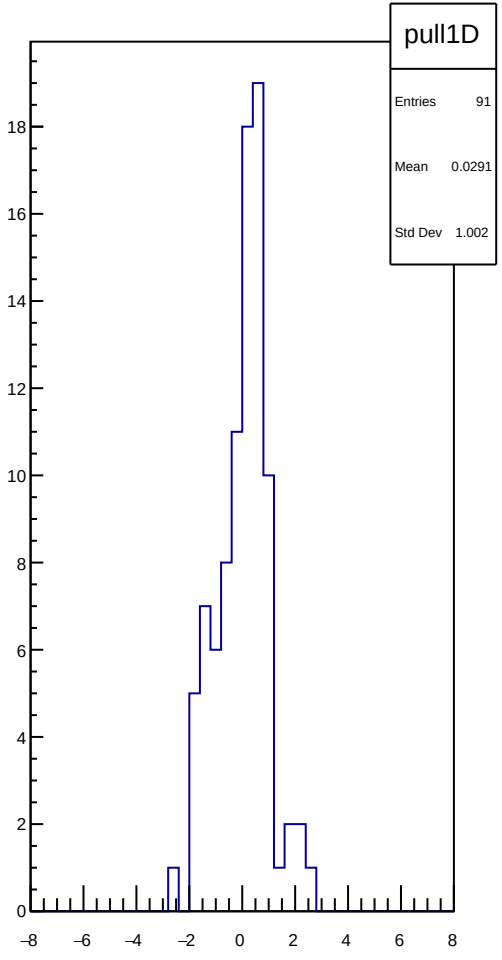

asym_sam1_rms vs run
χ² / ndf 1.907e+04 / 90
p0 413.5 ± 0.3139
800
750
700
650
600
550
500
450
400
350

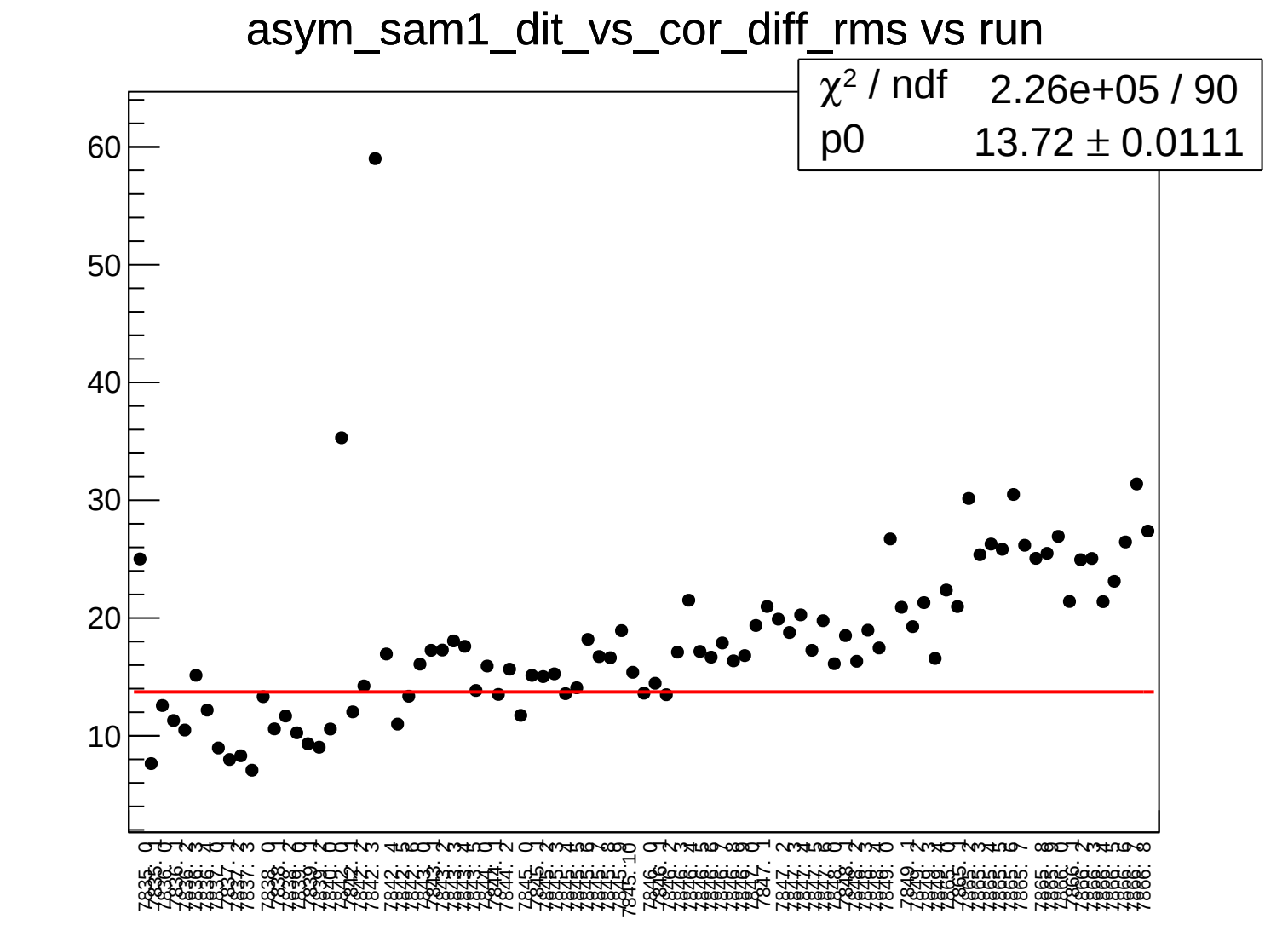

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.96 / 90
p0 3.673e−14 ± 7.364e−14
pull
Entries 91
Mean 57.95
Std Dev 39.1

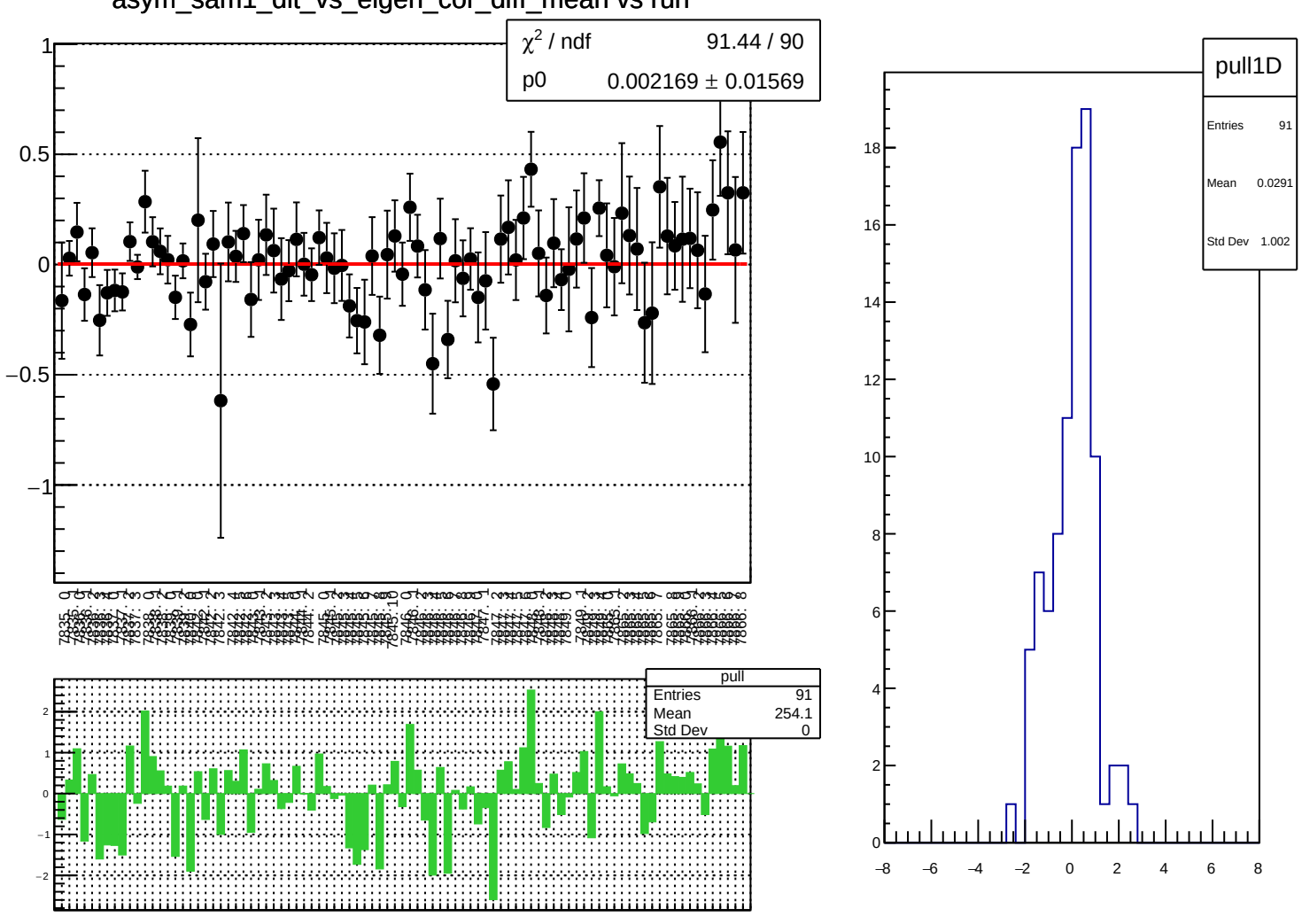

pull1D
Entries 91
Mean −0.05067
Std Dev 0.9706

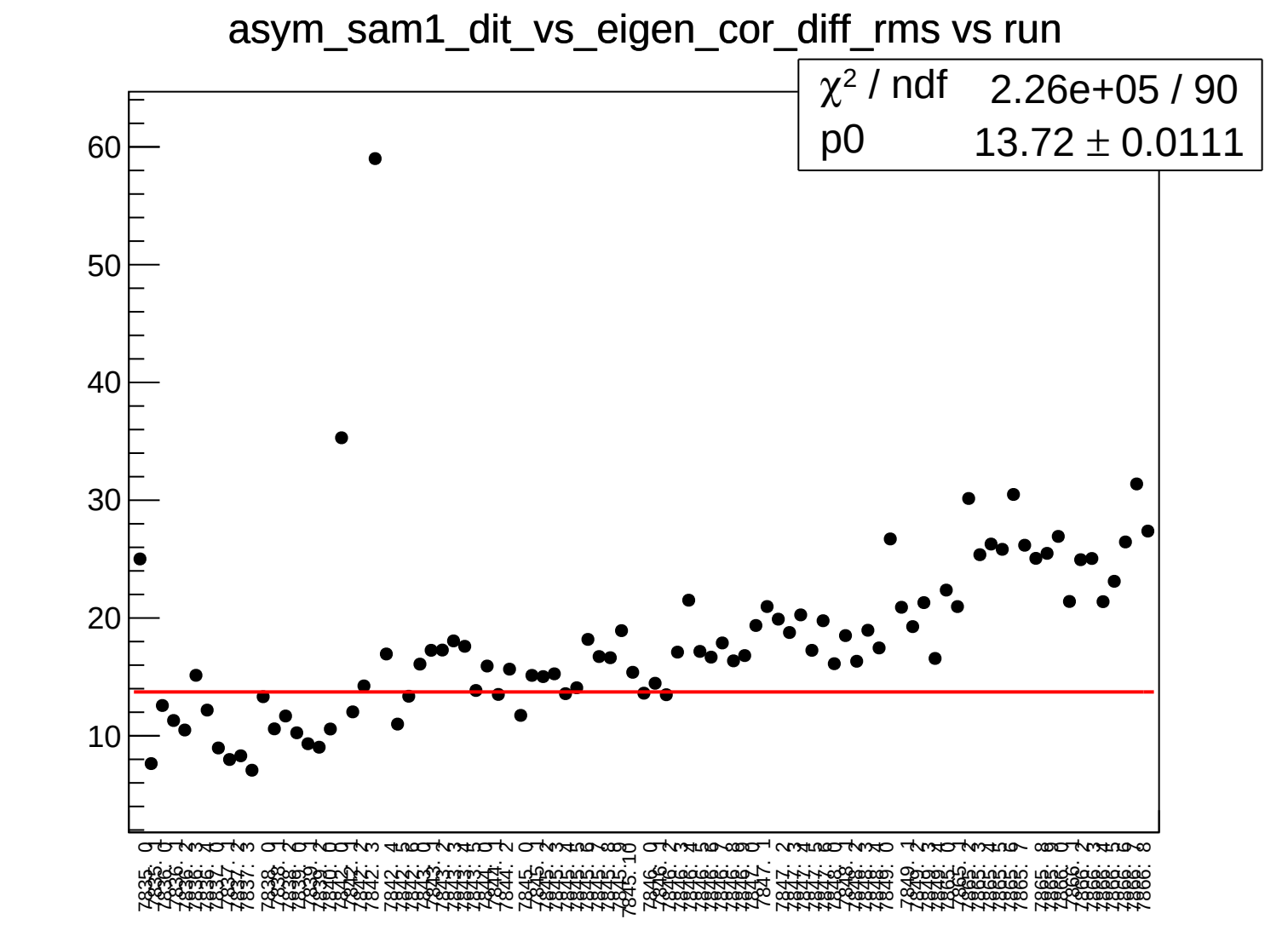

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 90
p0 4.297e−11 ± 5.207e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

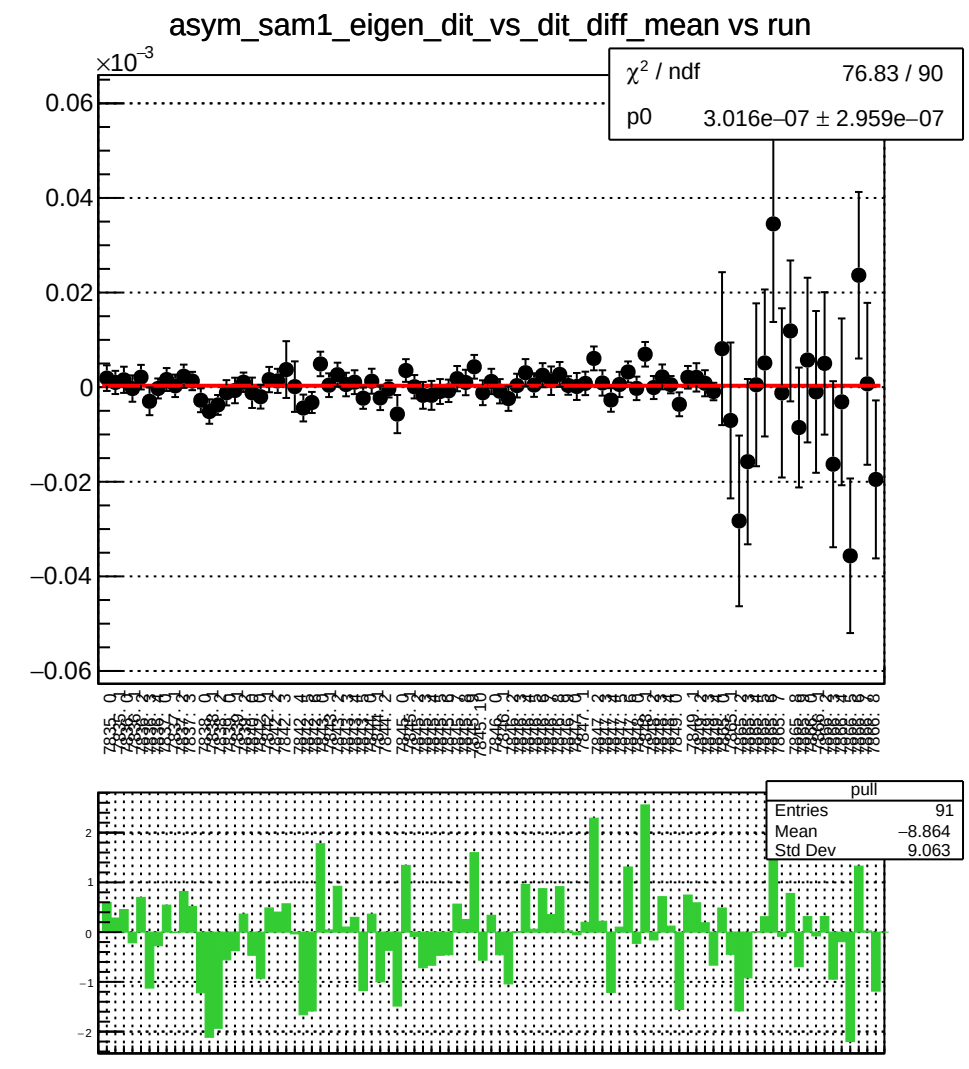

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 91.44 / 90
p0 0.002169 ± 0.01569
pull
Entries 91
Mean 254.1
Std Dev 0

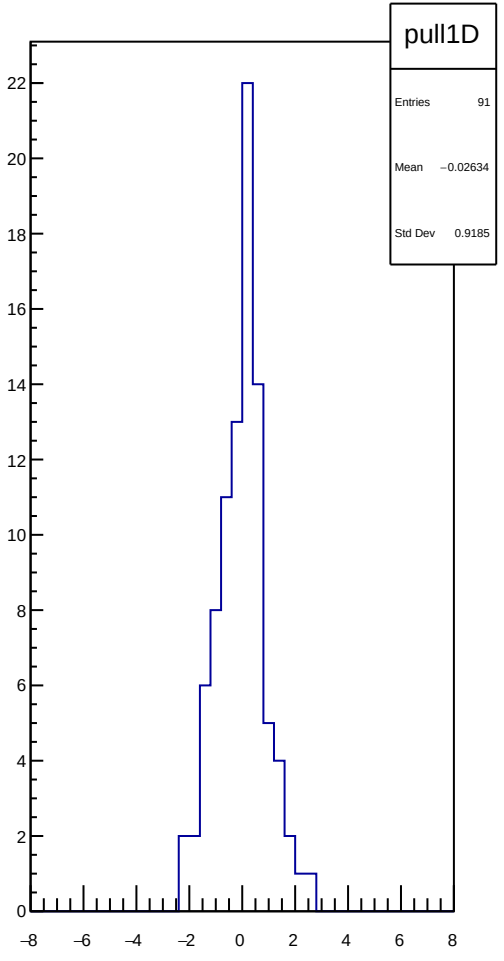

pull1D
Entries 91
Mean 0.0291
Std Dev 1.002

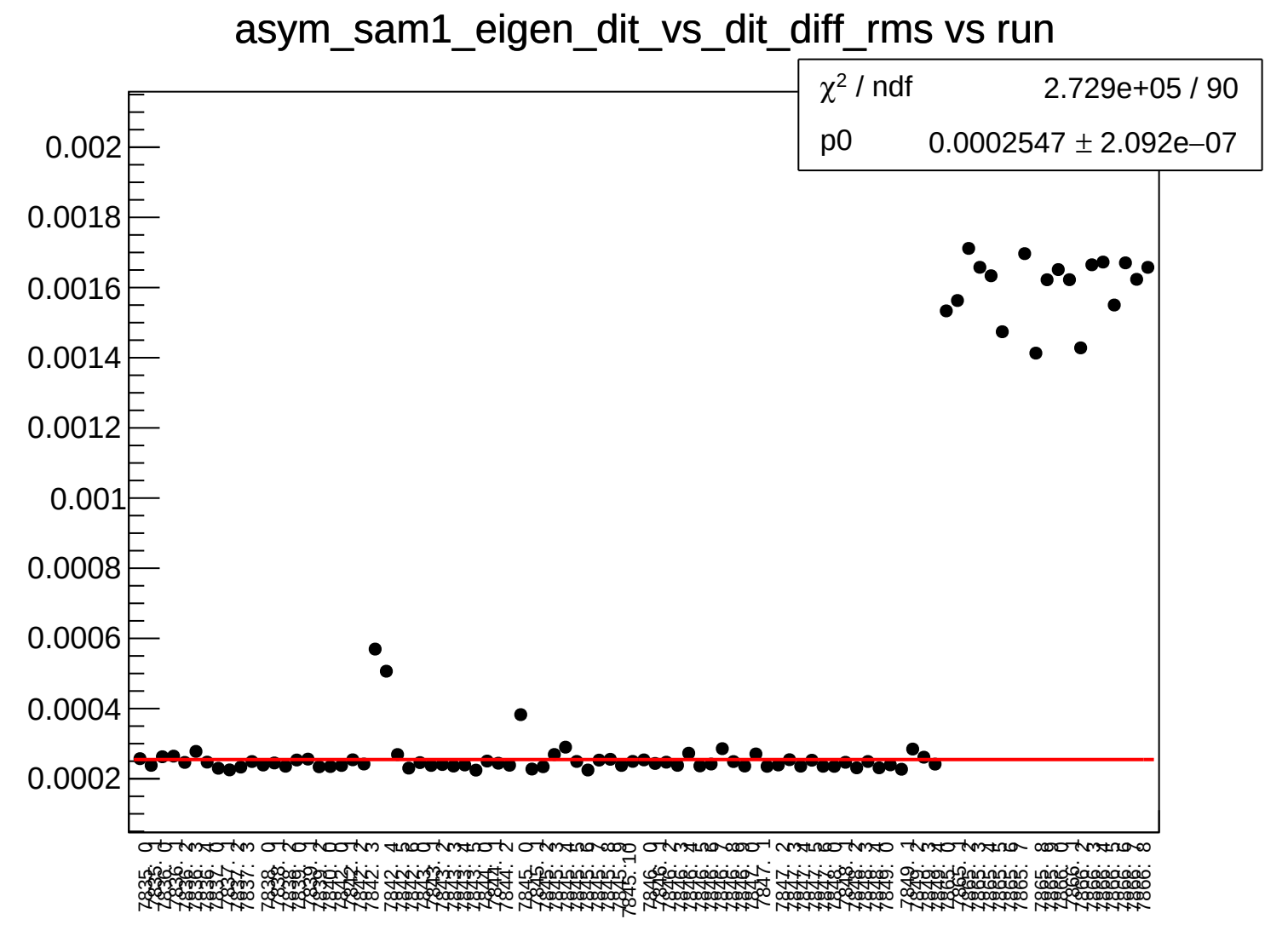

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 90
p0 13.72 ± 0.0111
60
50
40
30
20
10

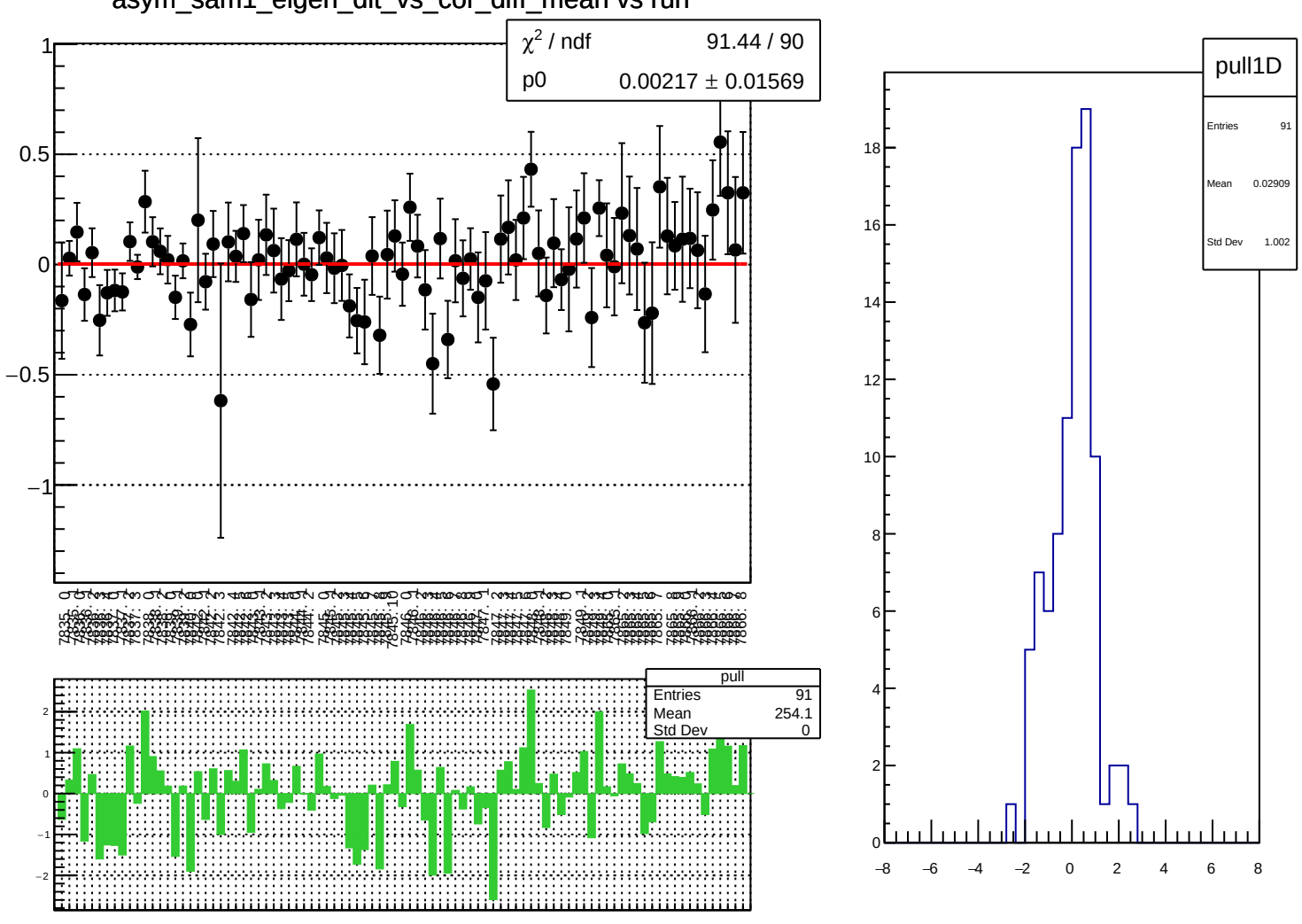

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.44 / 90
p0 0.002169 ± 0.01569
pull
Entries 91
Mean 254.1
Std Dev 0
pull1D
Entries 91
Mean 0.0291
Std Dev 1.002

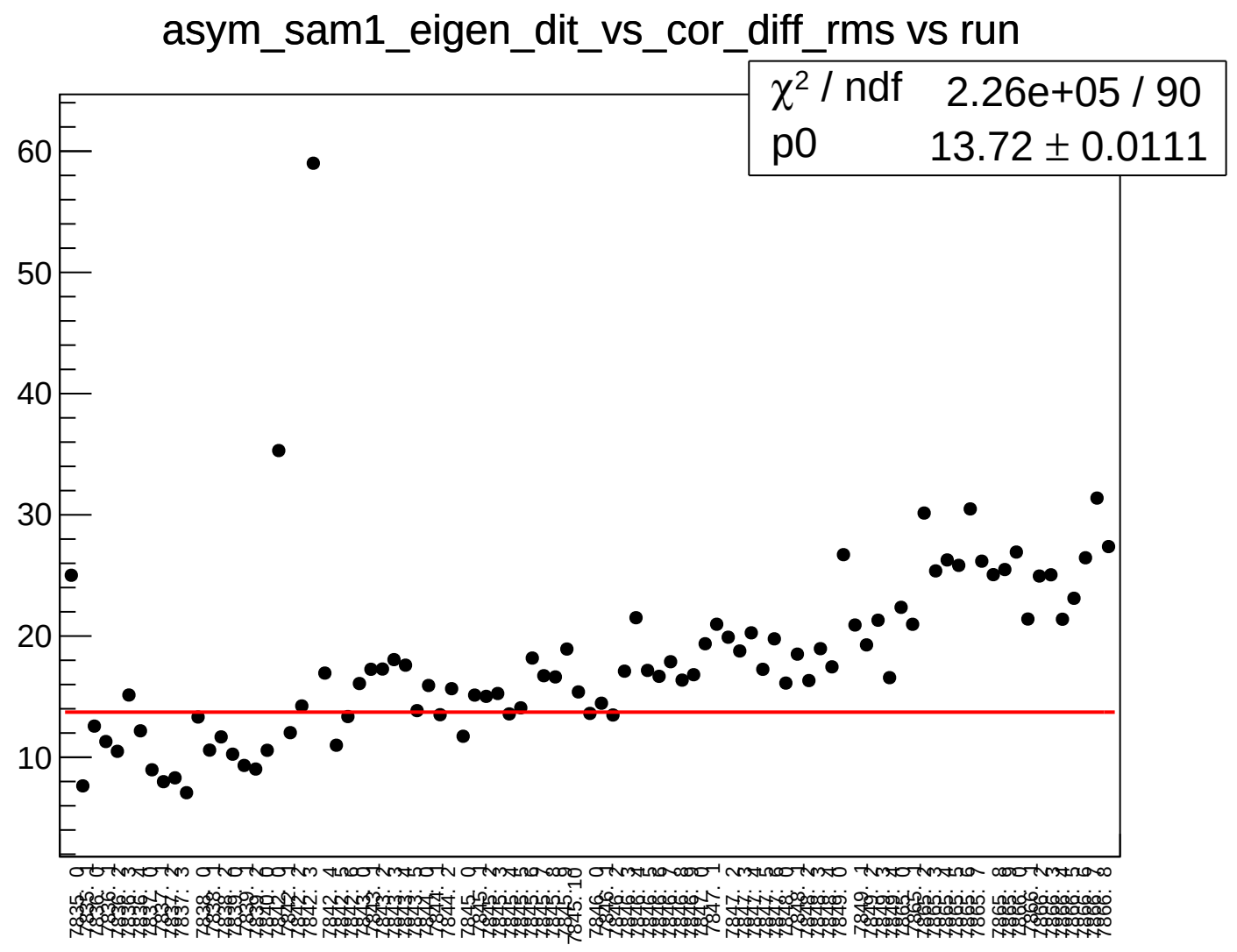

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 90
p0 13.72 ± 0.0111
60
50
40
30
20
10

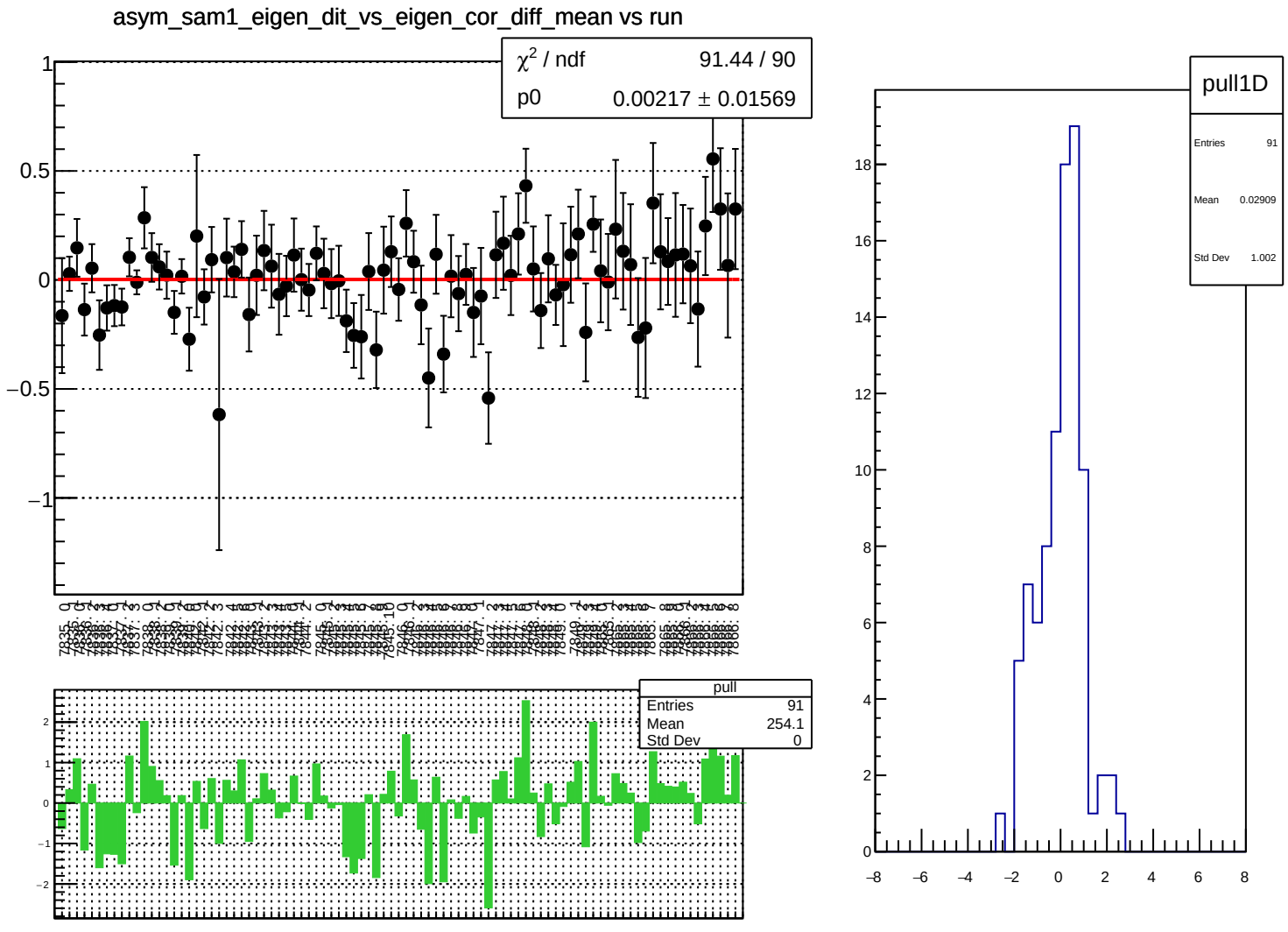

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.83 / 90
p0 3.016e−07 ± 2.959e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean −8.864
Std Dev 9.063
2
1
0
−1
−2

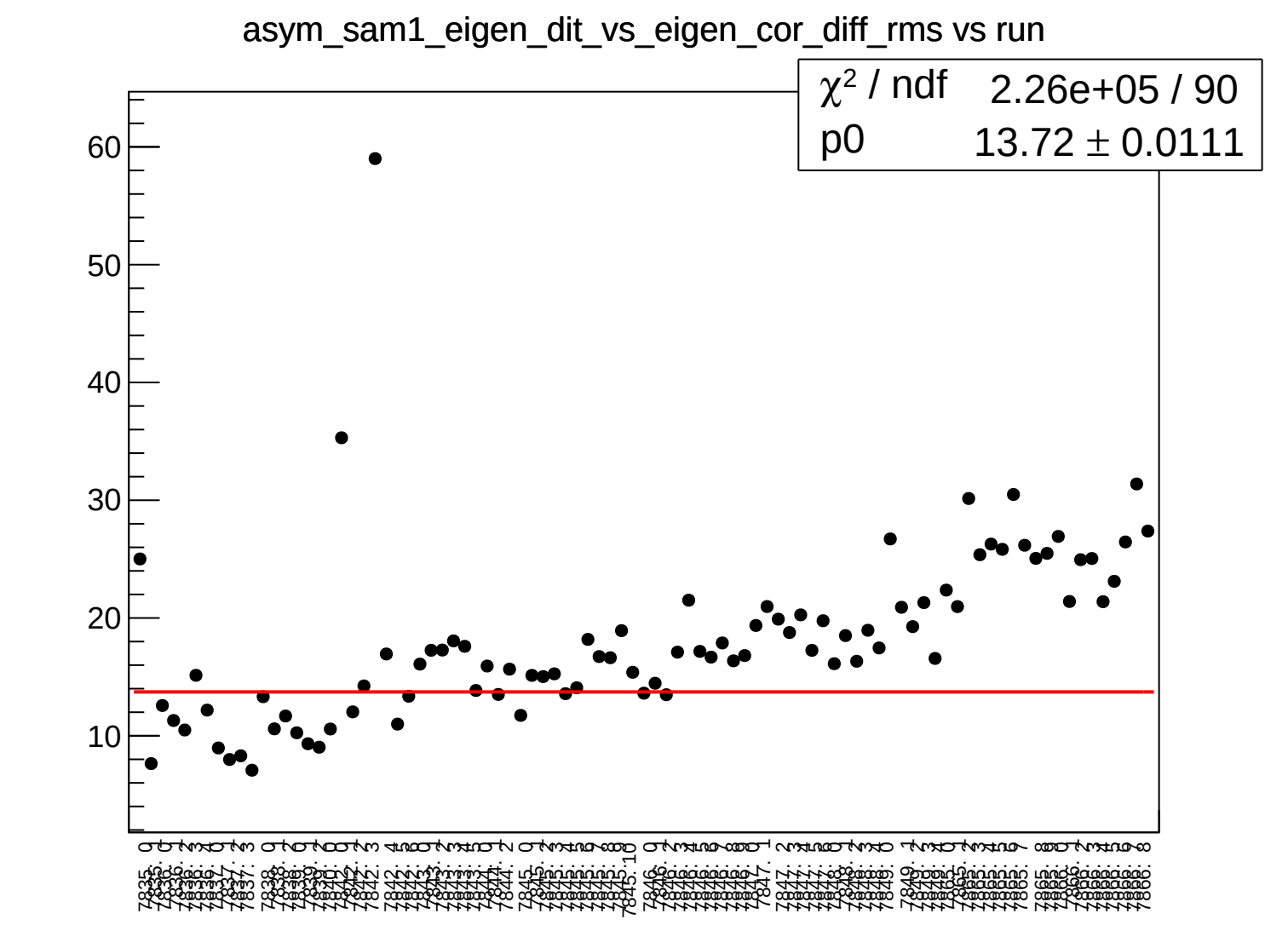

pull1D
Entries 91
Mean −0.02634
Std Dev 0.9185
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

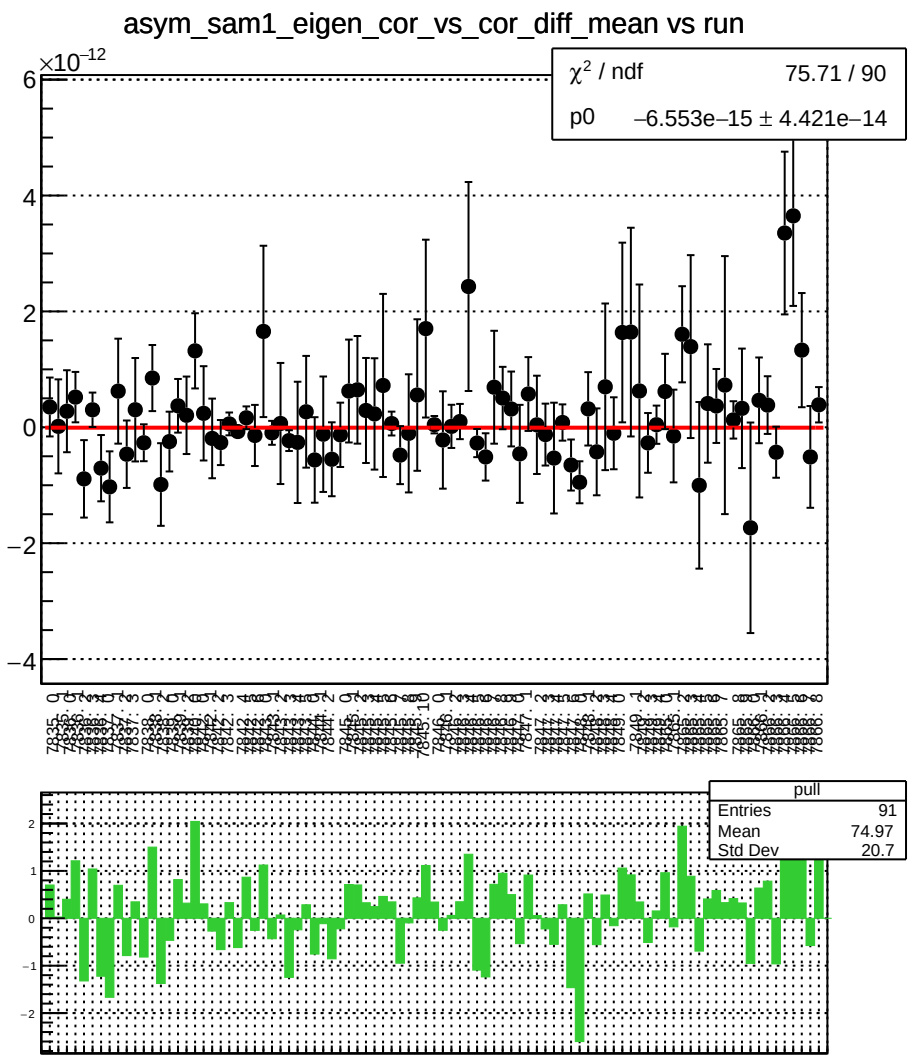

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.729e+05 / 90
p0 0.0002547 ± 2.092e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

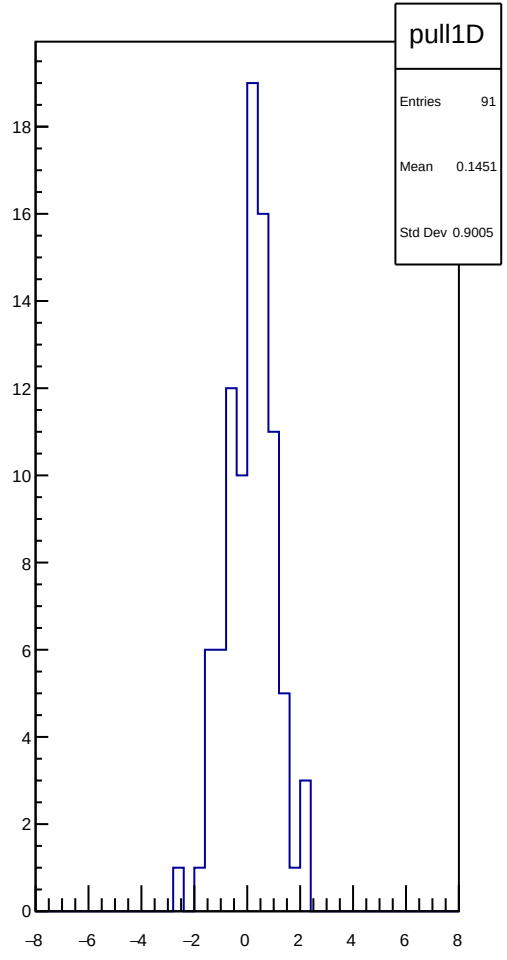

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.44 / 90
p0 0.00217 ± 0.01569
pull
Entries 91
Mean 254.1
Std Dev 0
pull1D
Entries 91
Mean 0.02909
Std Dev 1.002

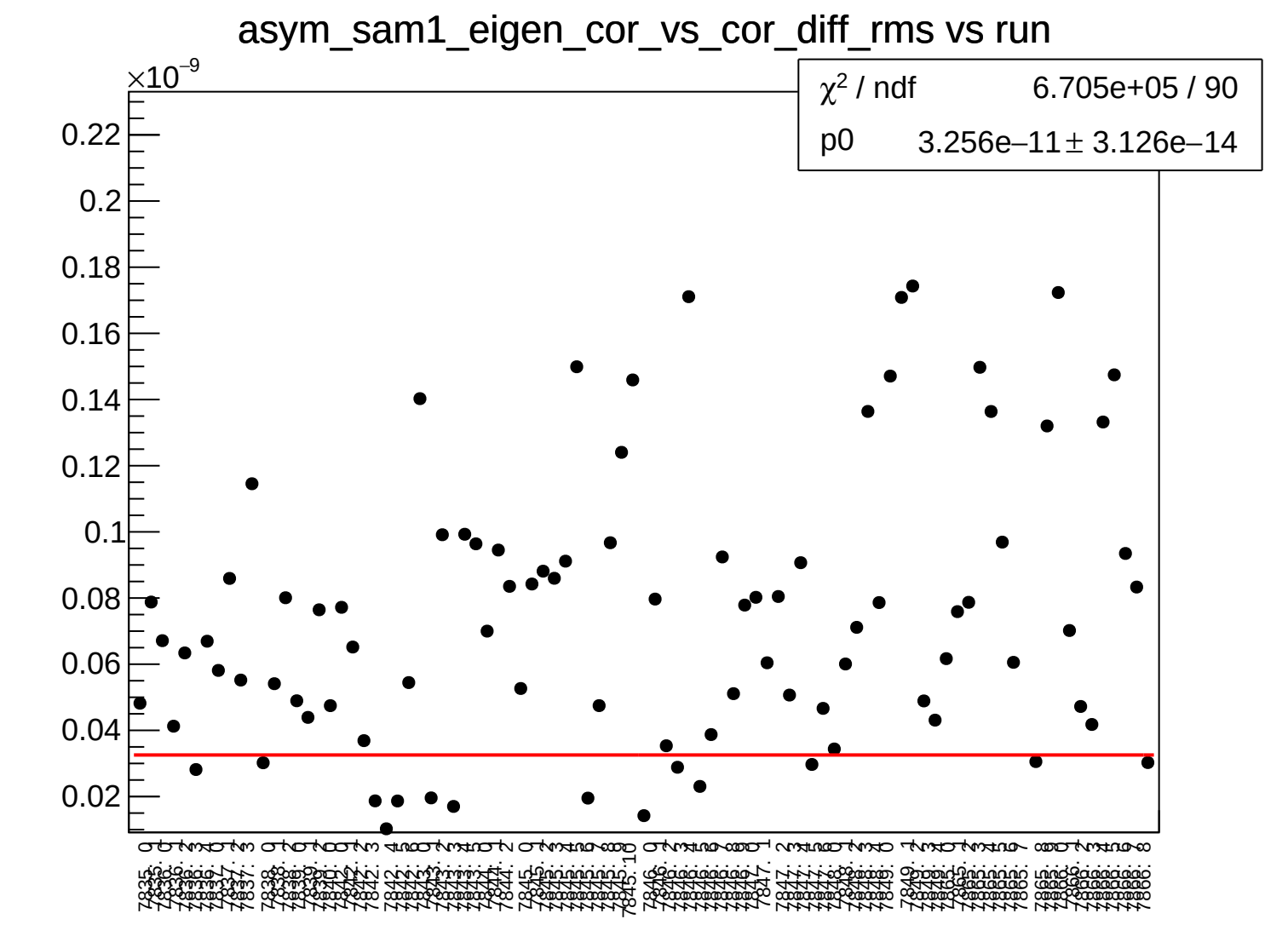

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 90
p0 13.72 ± 0.0111
60
50
40
30
20
10

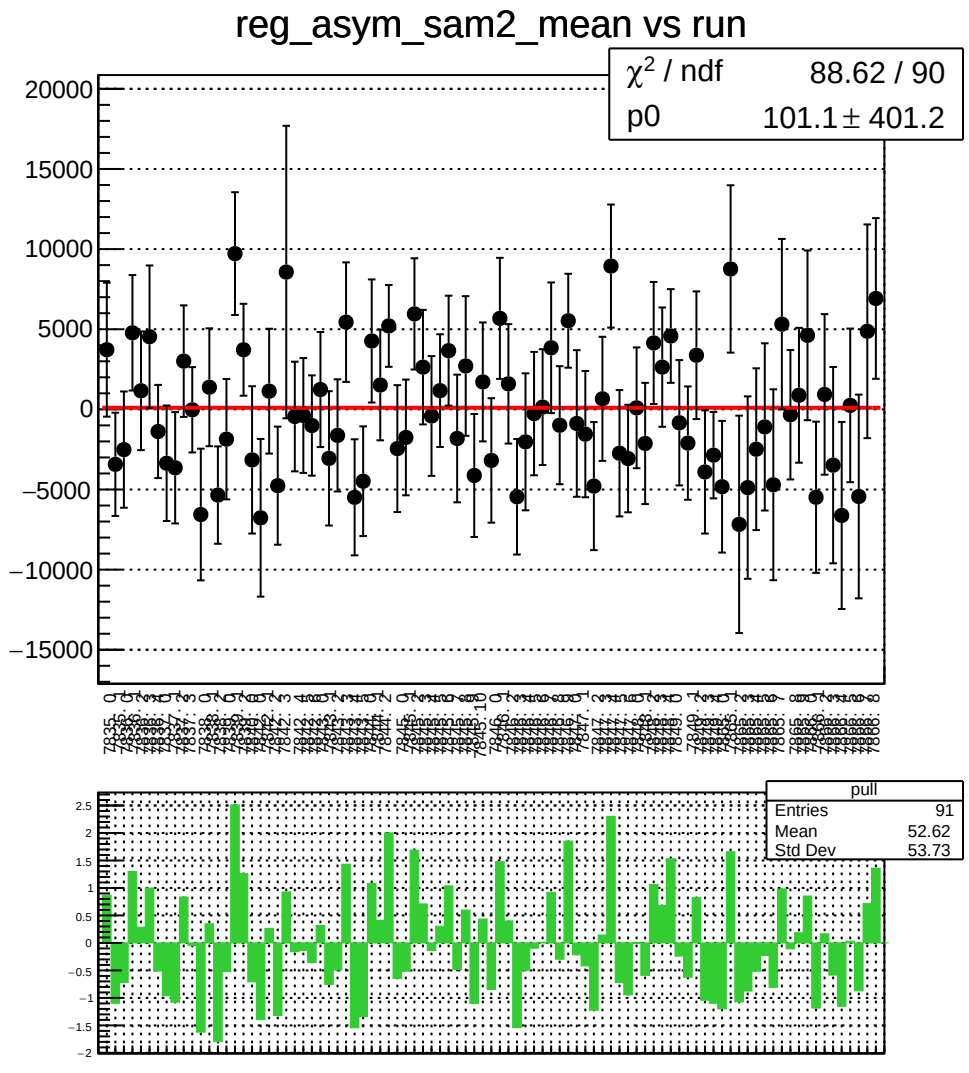

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.44 / 90
p0 0.00217 ± 0.01569
pull
Entries 91
Mean 254.1
Std Dev 0
pull1D
Entries 91
Mean 0.02909
Std Dev 1.002

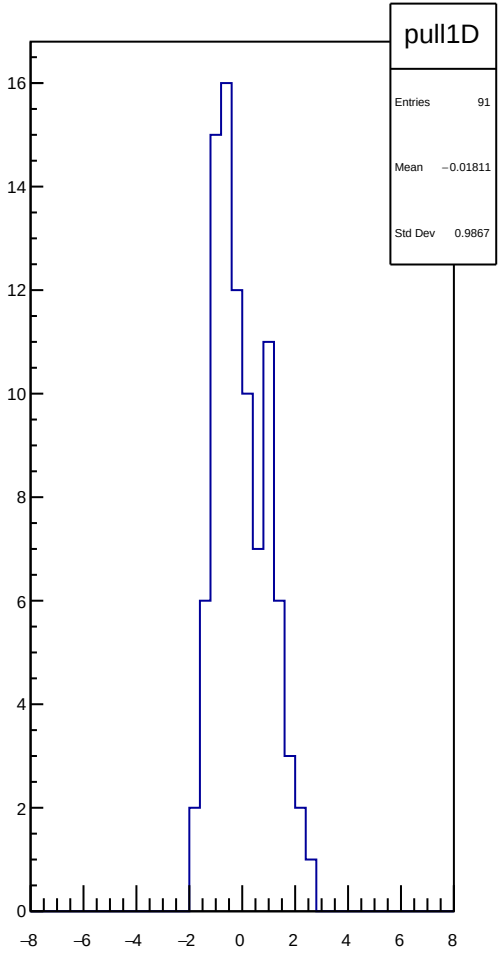

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 90
p0 13.72 ± 0.0111
60
50
40
30
20
10

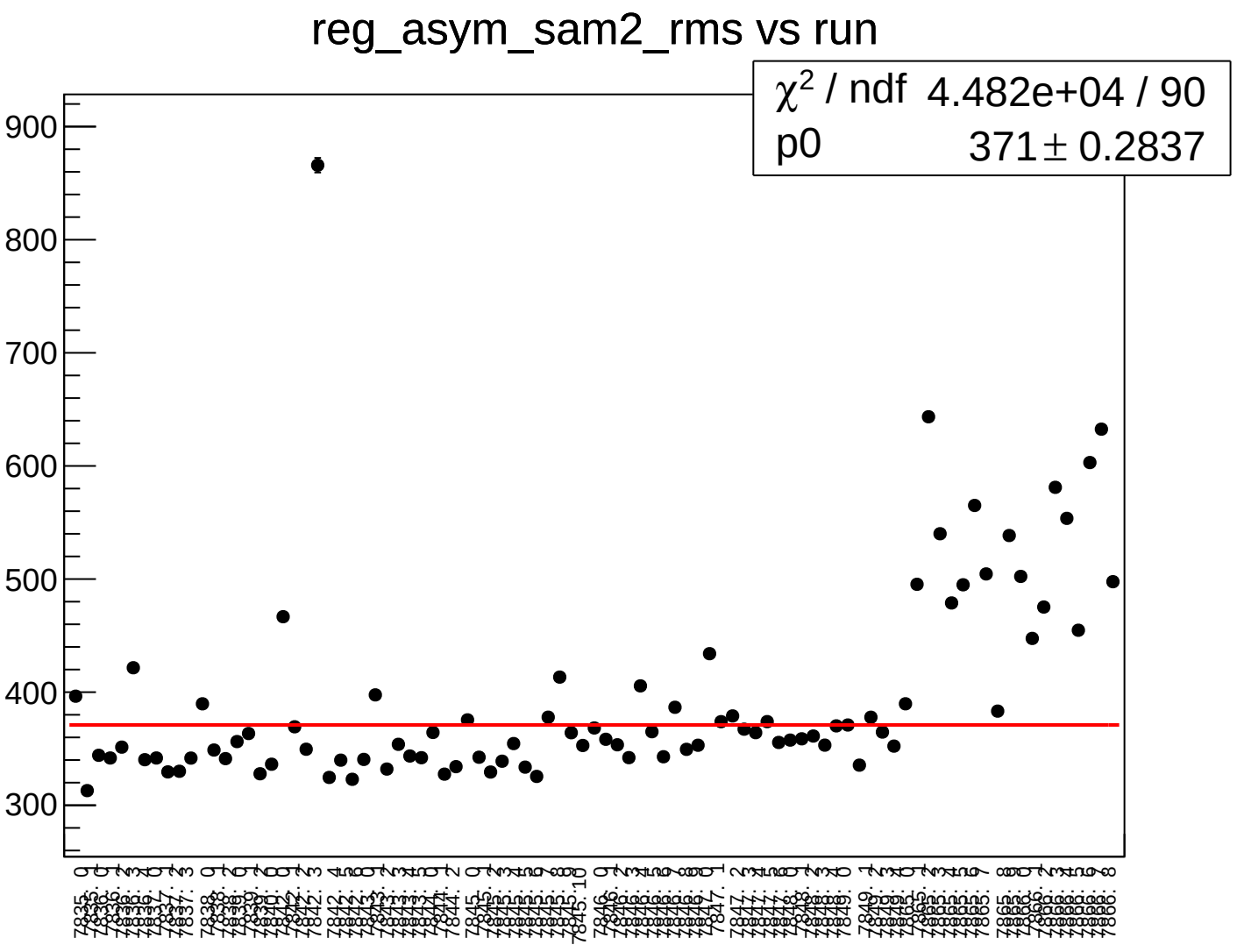

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.71 / 90
p0 −6.553e−15 ± 4.421e−14
pull
Entries 91
Mean 74.97
Std Dev 20.7

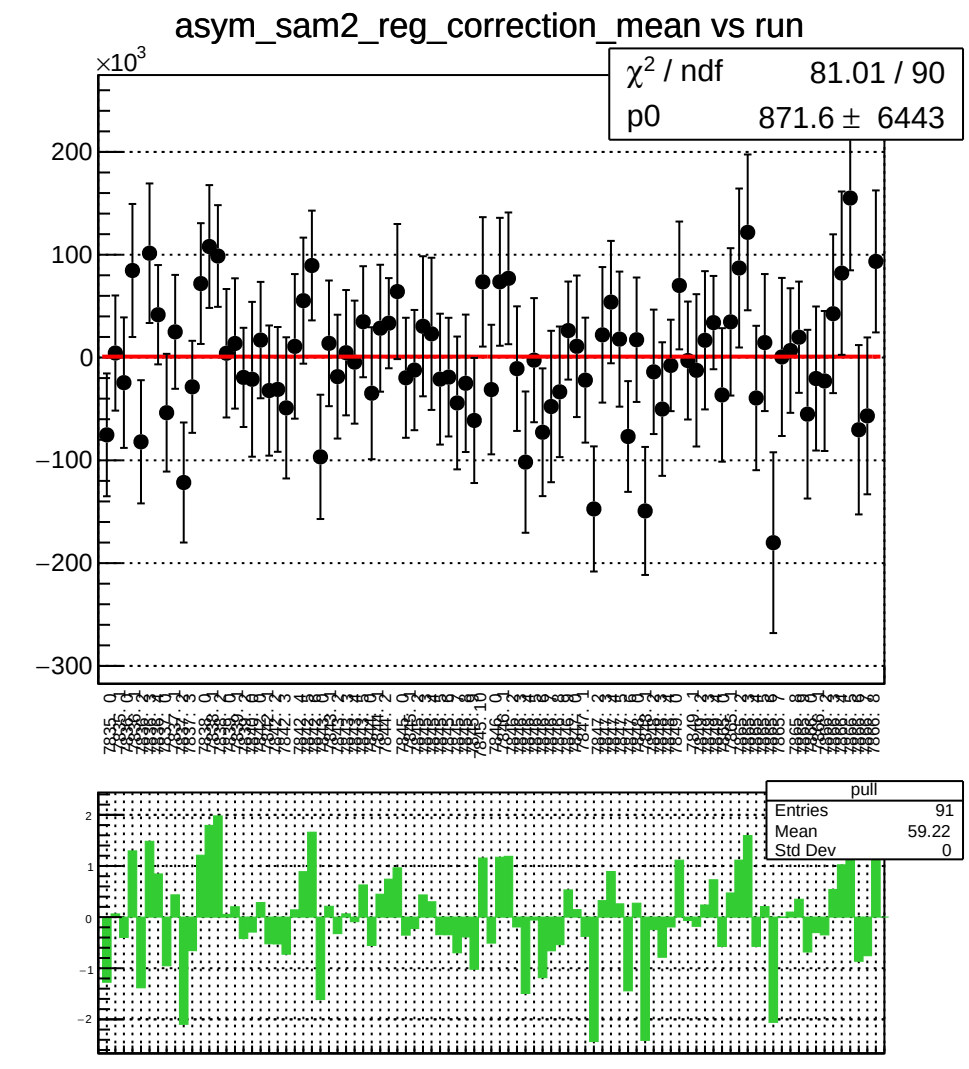

pull1D
Entries 91
Mean 0.1451
Std Dev 0.9005

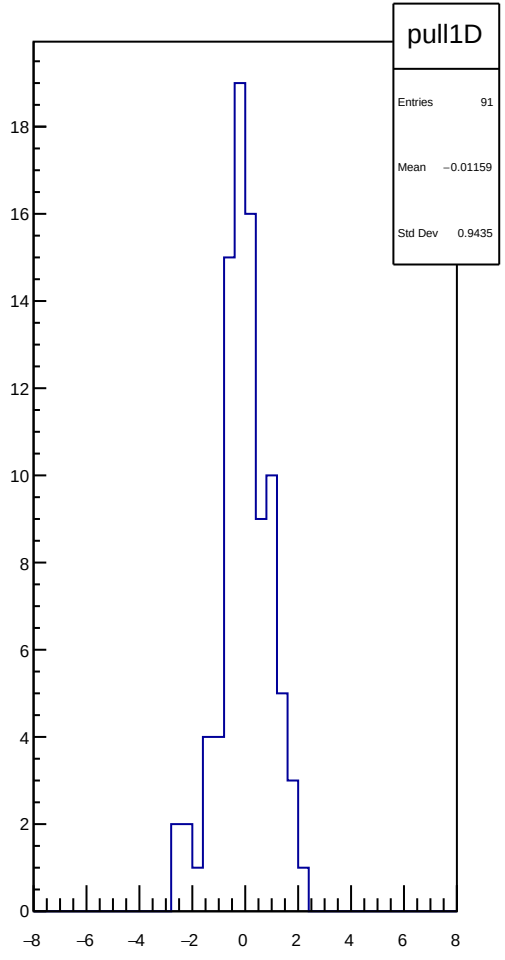

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.705e+05 / 90
p0 3.256e−11 ± 3.126e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

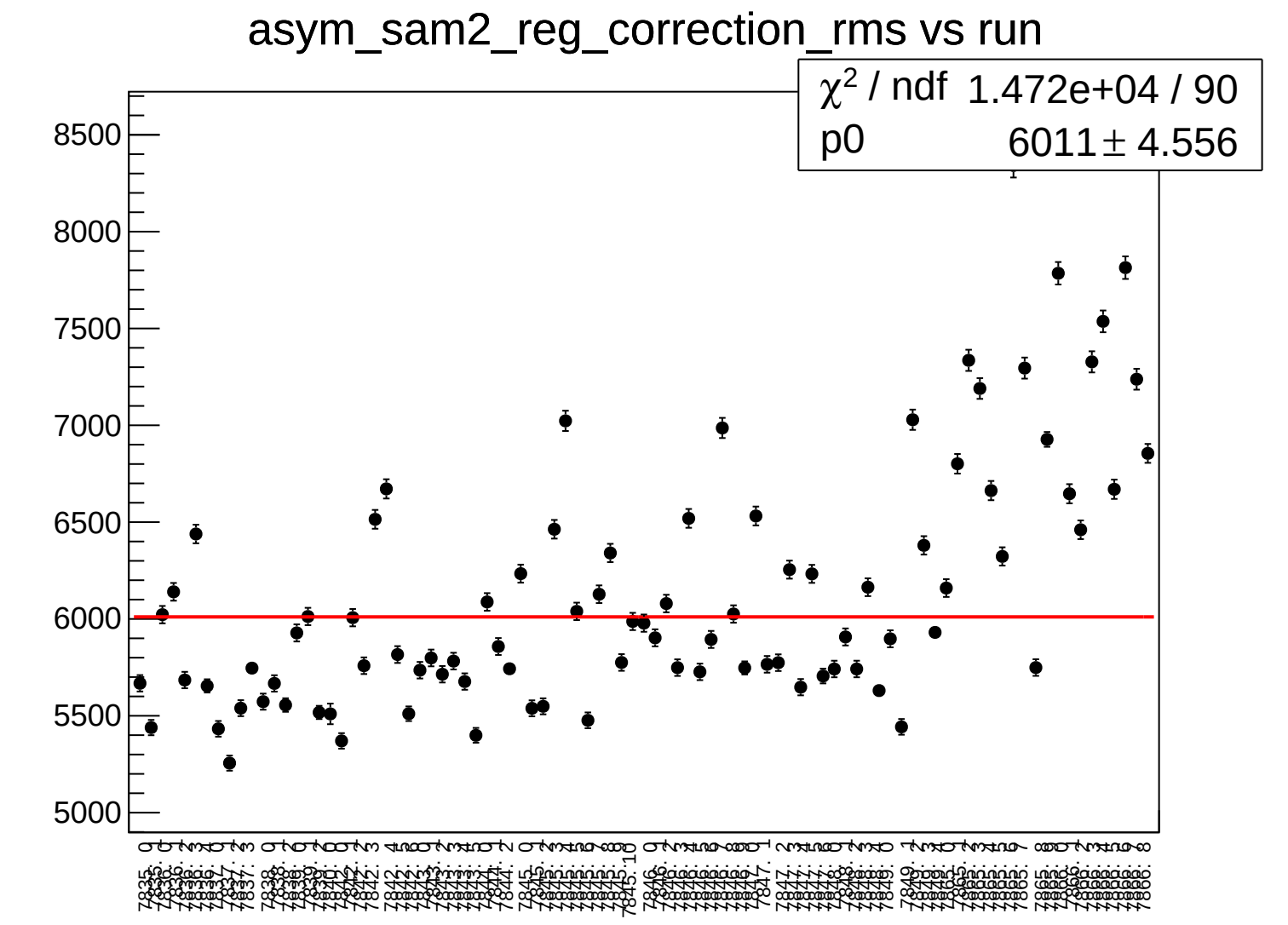

reg_asym_sam2_mean vs run
χ² / ndf 88.62 / 90
p0 101.1 ± 401.2
pull
Entries 91
Mean 52.62
Std Dev 53.73

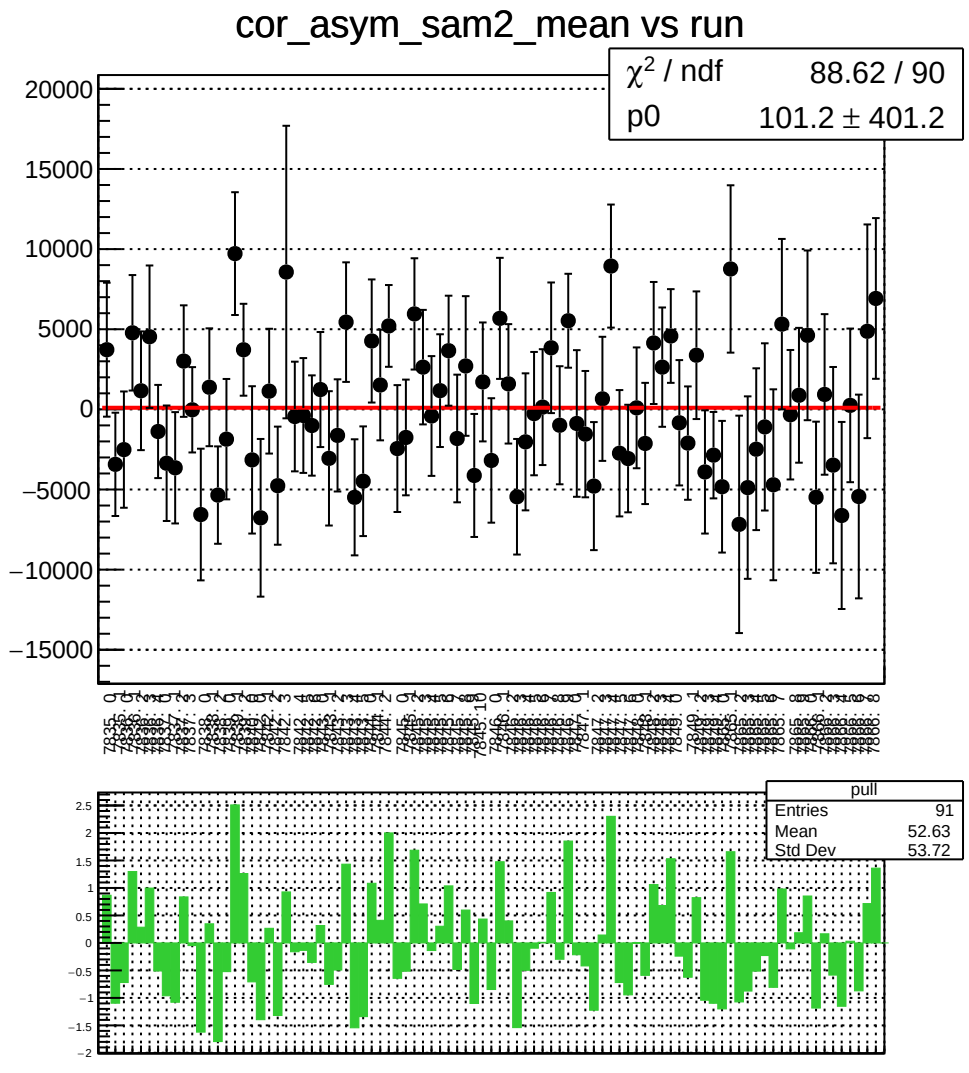

pull1D
Entries 91
Mean −0.01811
Std Dev 0.9867

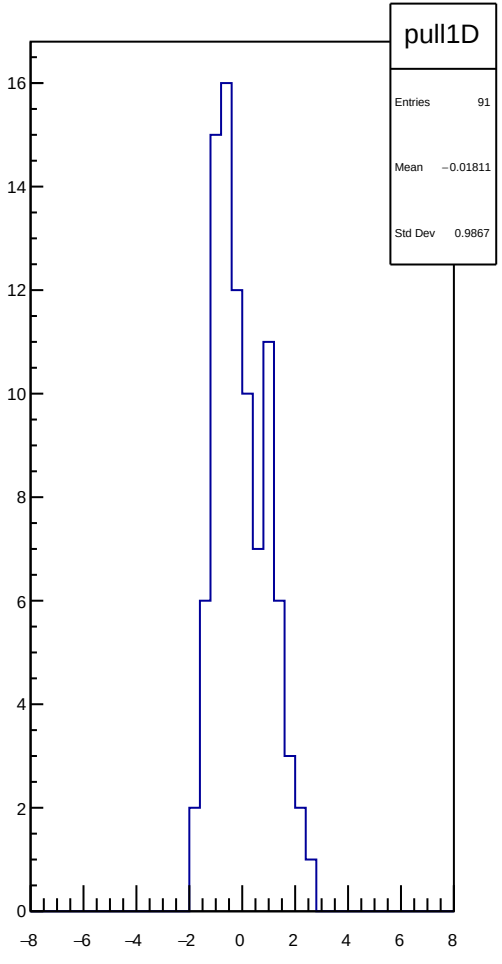

reg_asym_sam2_rms vs run
χ^2 / ndf 4.482e+04 / 90
p0 371 ± 0.2837
900
800
700
600
500
400
300

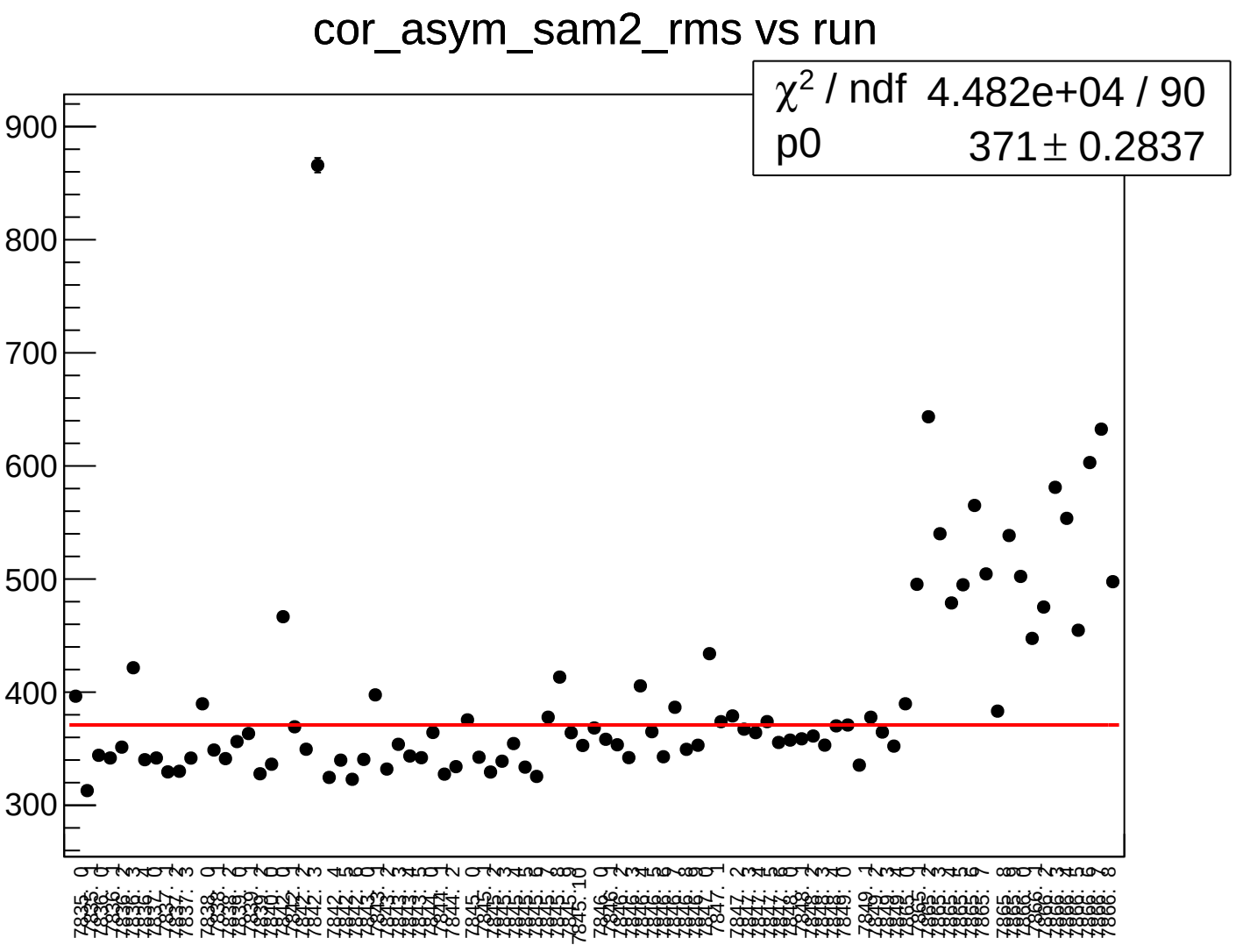

asym_sam2_reg_correction_mean vs run
χ² / ndf 81.01 / 90
p0 871.6 ± 6443
×10³
pull
Entries 91
Mean 59.22
Std Dev 0

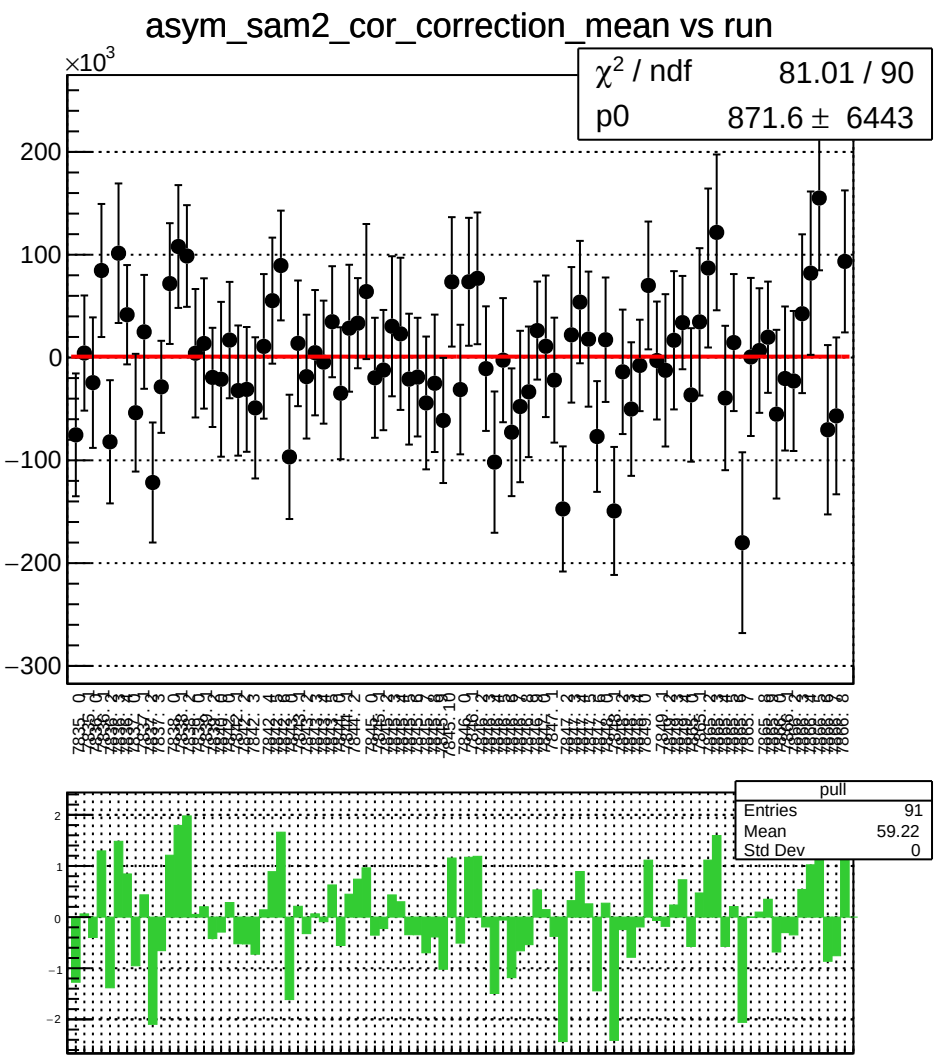

pull1D
Entries 91
Mean −0.01159
Std Dev 0.9435

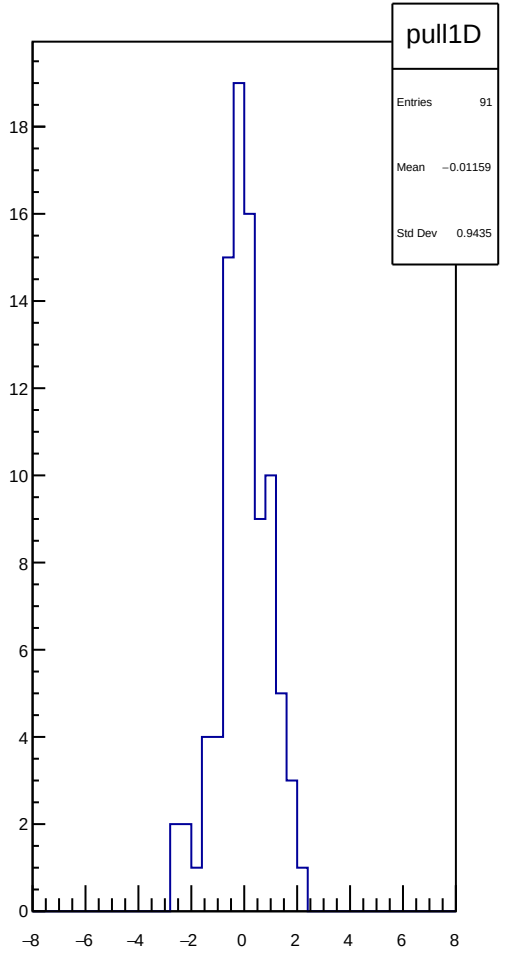

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.472e+04 / 90
p0 6011 ± 4.556
8500
8000
7500
7000
6500
6000
5500
5000

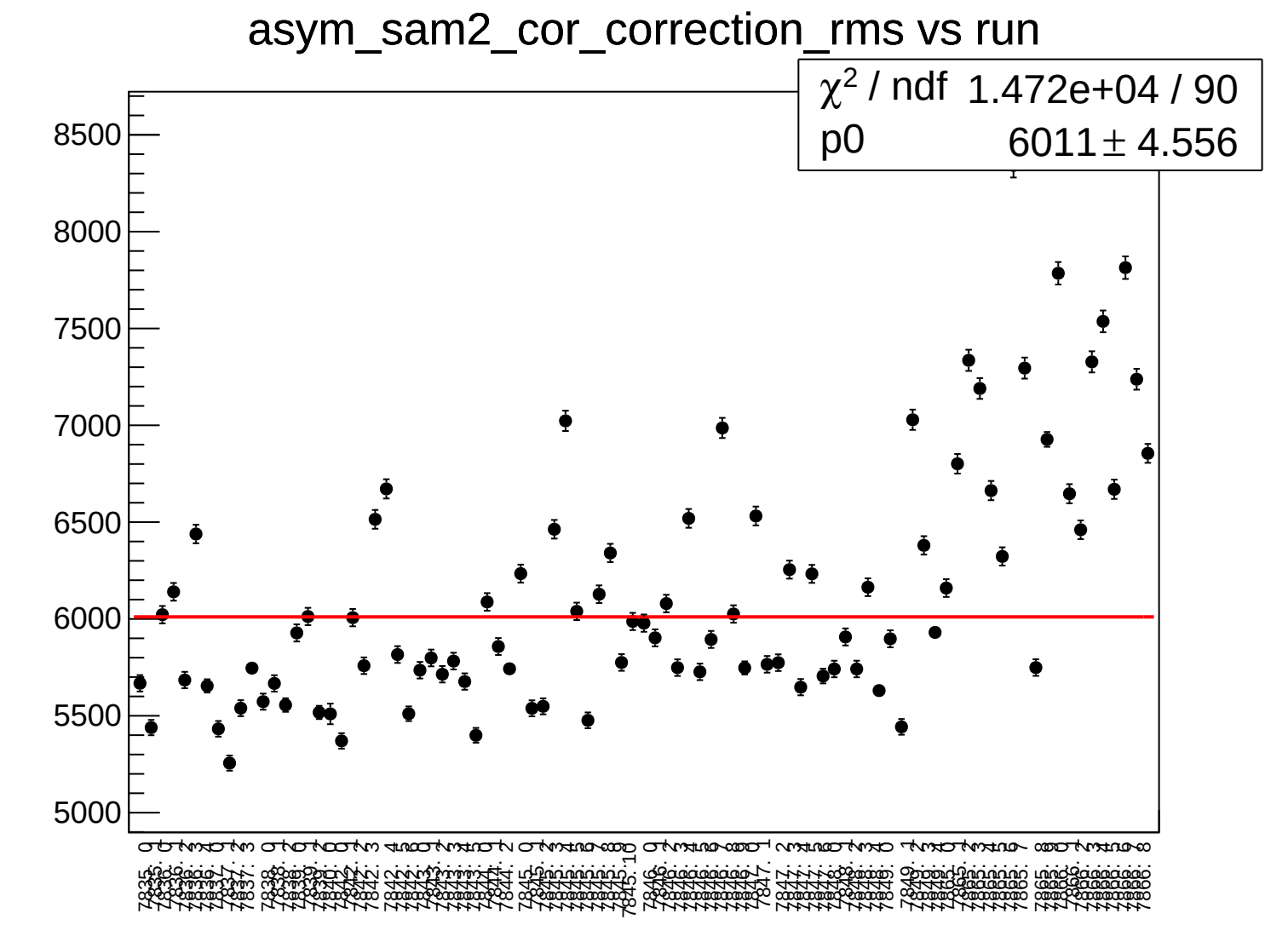

cor_asym_sam2_mean vs run
χ² / ndf 88.62 / 90
p0 101.2 ± 401.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 52.63
Std Dev 53.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

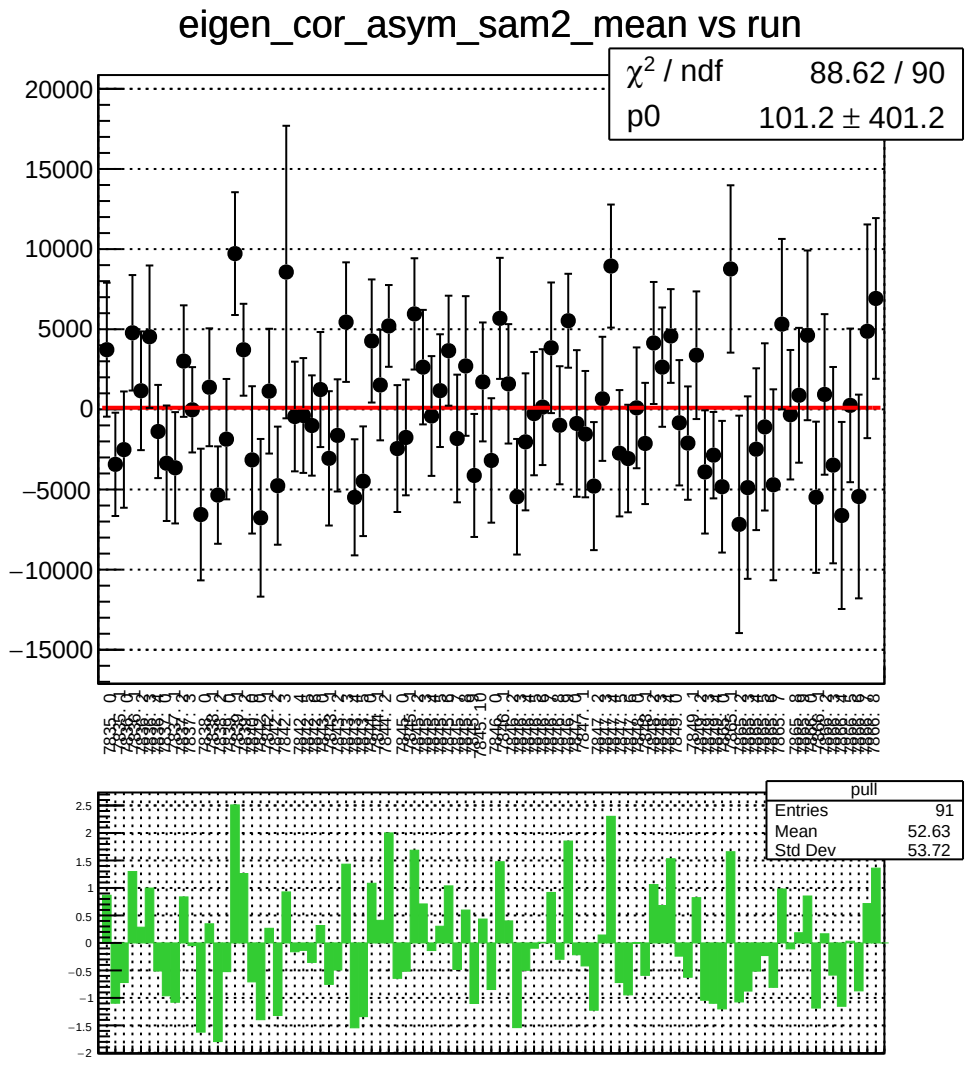

pull1D
Entries 91
Mean −0.01811
Std Dev 0.9867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

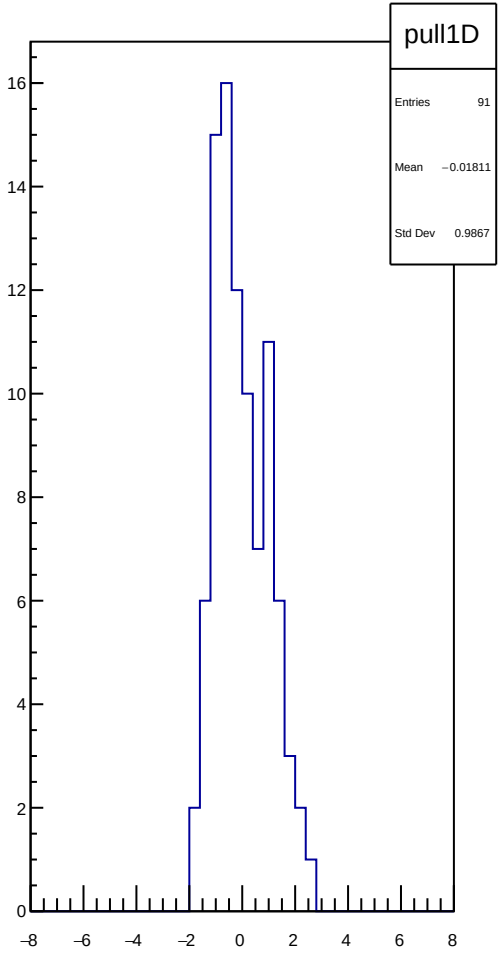

cor_asym_sam2_rms vs run
χ^2 / ndf 4.482e+04 / 90
p0 371 ± 0.2837
900
800
700
600
500
400
300

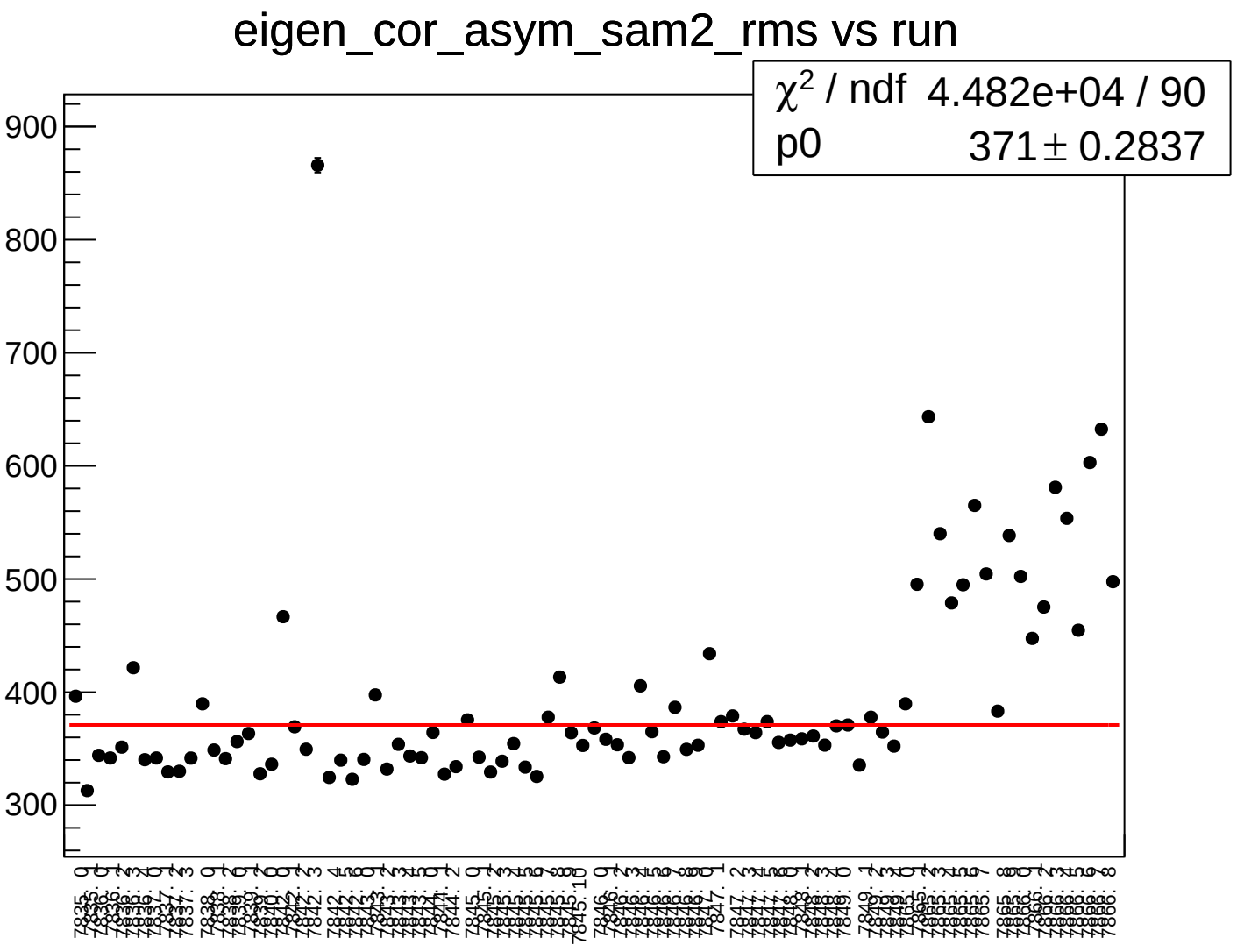

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 81.01 / 90
p0 871.6 ± 6443
200
100
0
−100
−200
−300
pull
Entries 91
Mean 59.22
Std Dev 0
2
1
0
−1
−2

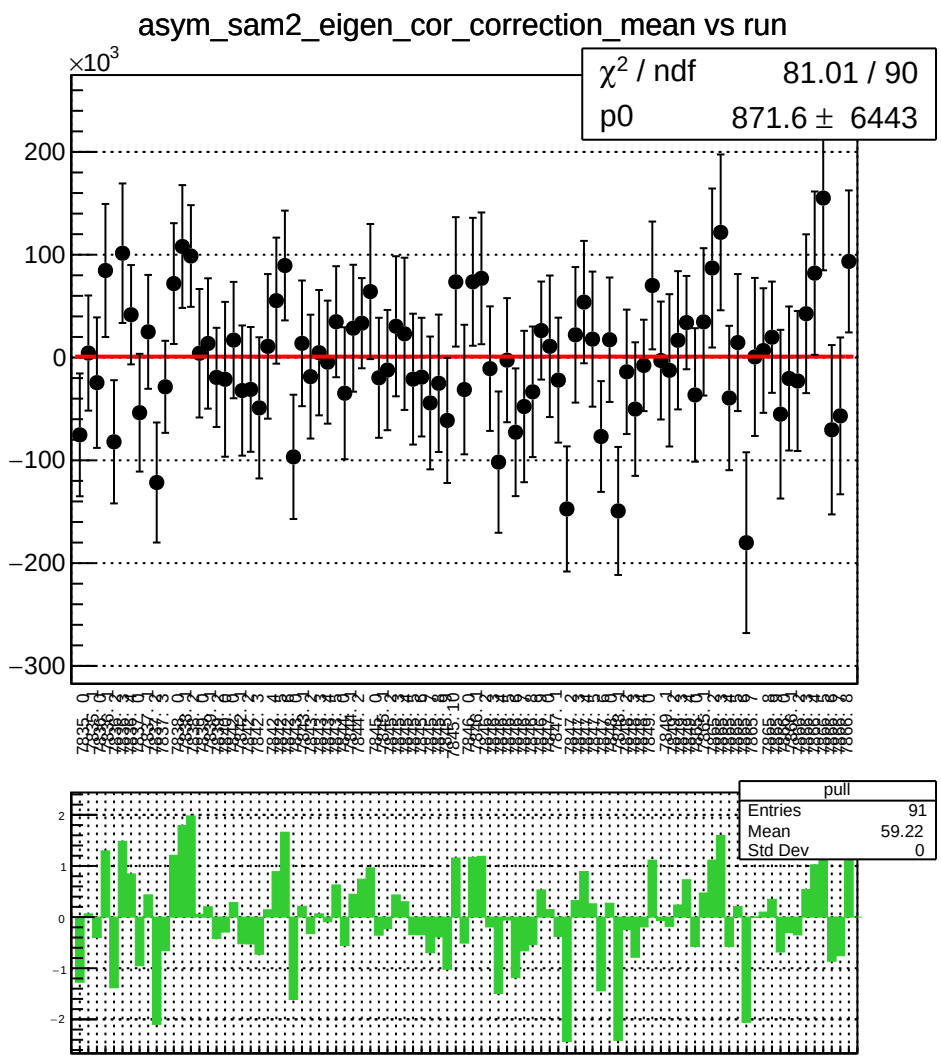

pull1D
Entries 91
Mean −0.01159
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

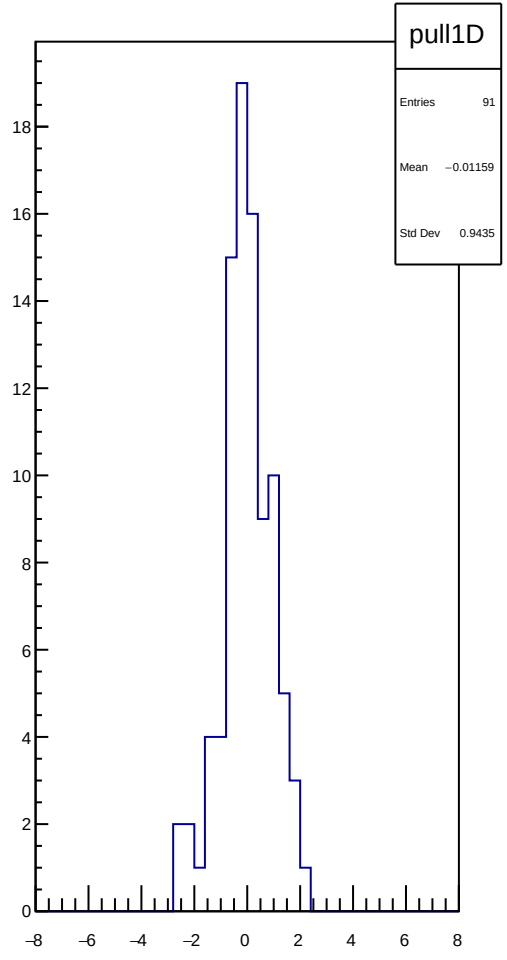

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.472e+04 / 90
p0 6011 ± 4.556
8500
8000
7500
7000
6500
6000
5500
5000

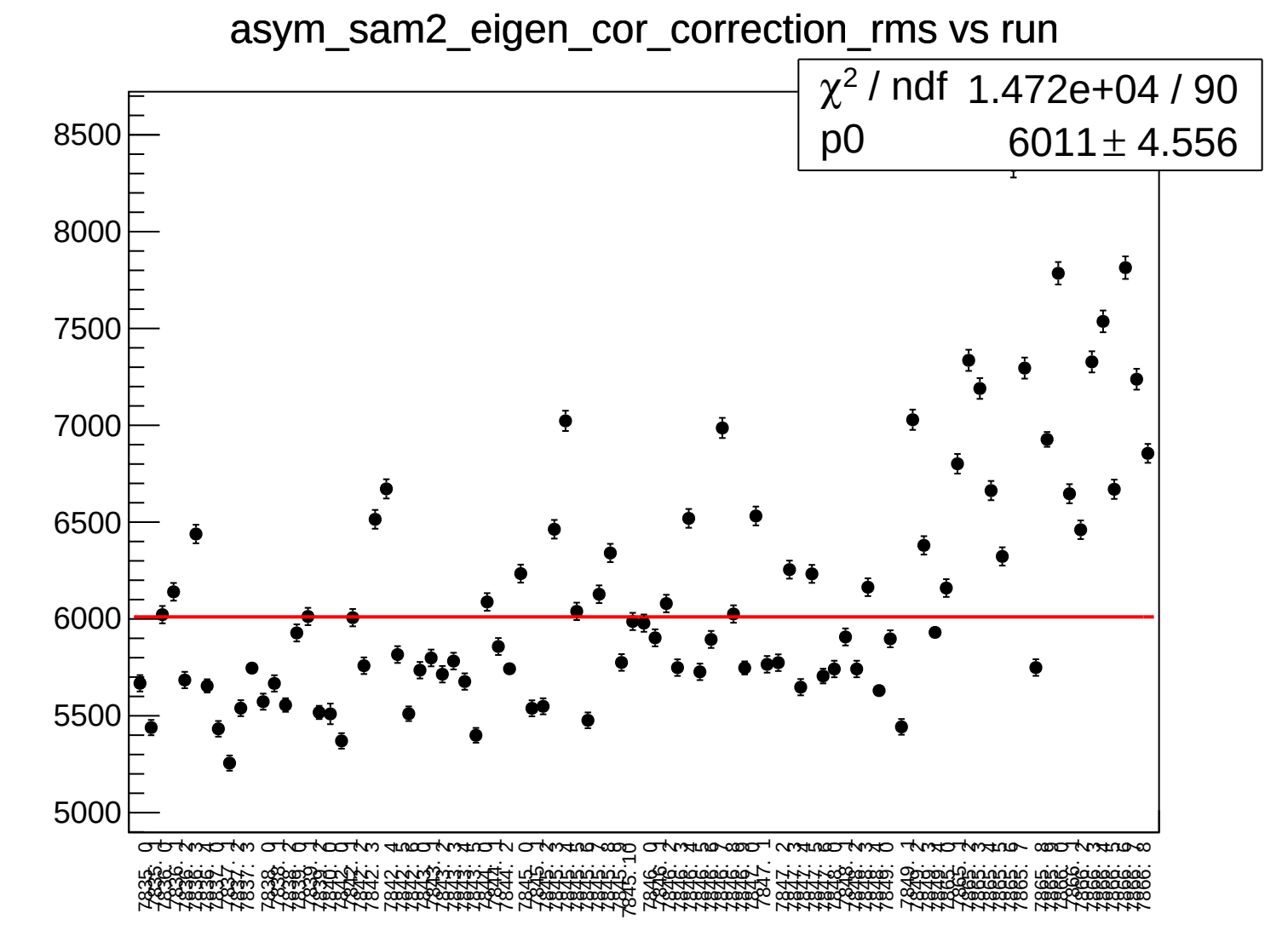

eigen_cor_asym_sam2_mean vs run
χ² / ndf 88.62 / 90
p0 101.2 ± 401.2
pull
Entries 91
Mean 52.63
Std Dev 53.72

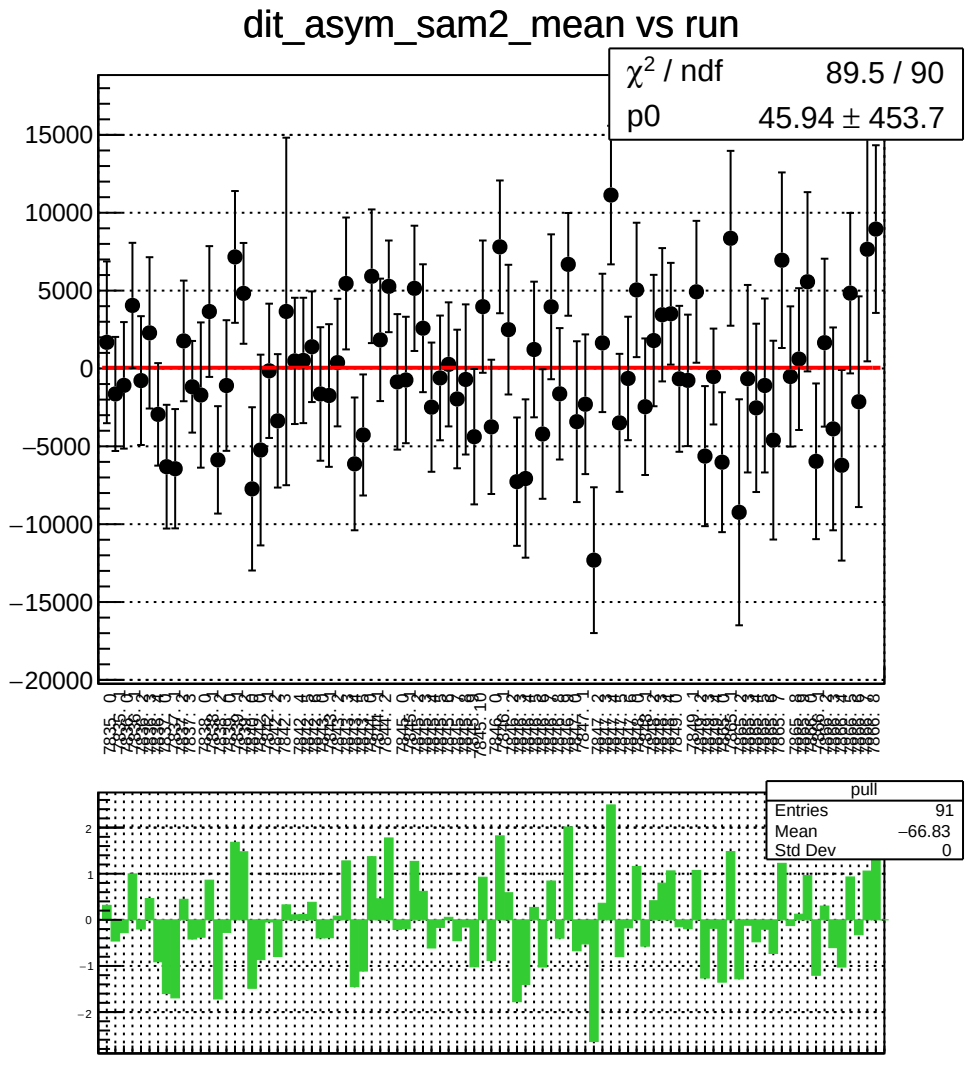

pull1D
Entries 91
Mean −0.01811
Std Dev 0.9867

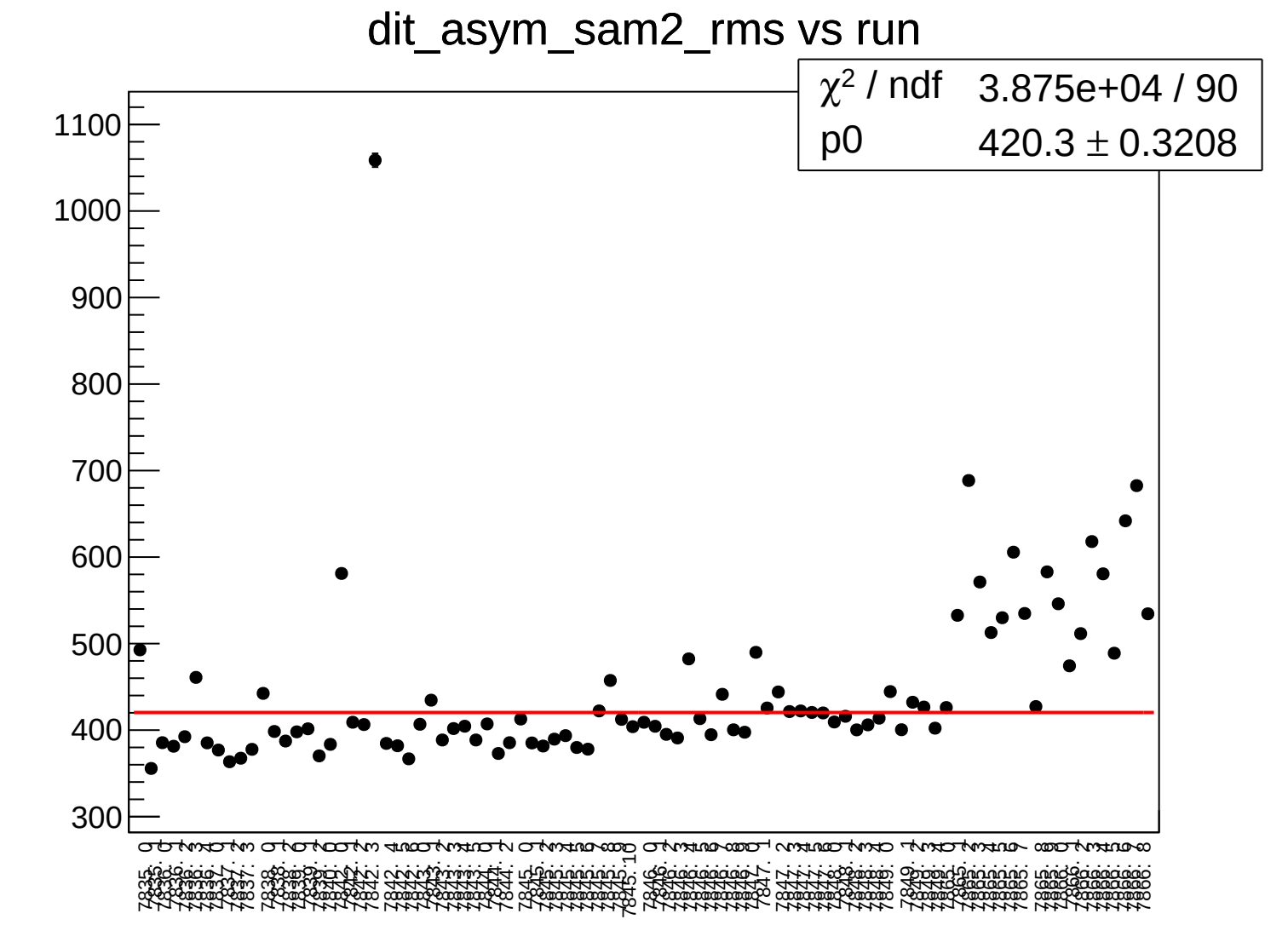

eigen_cor_asym_sam2_rms vs run
χ^2 / ndf 4.482e+04 / 90
p0 371 ± 0.2837
900
800
700
600
500
400
300

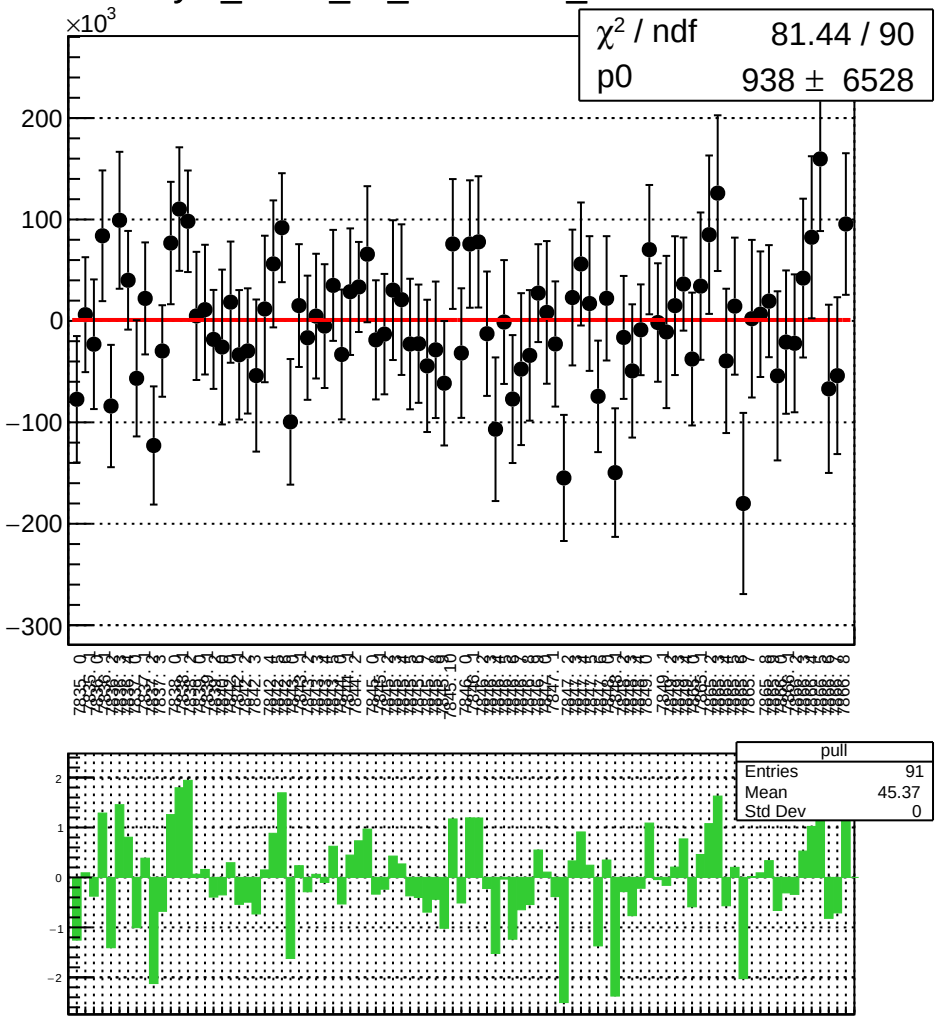

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.01 / 90
p0 871.6 ± 6443
200
100
0
−100
−200
−300
pull
Entries 91
Mean 59.22
Std Dev 0
2
1
0
−1
−2

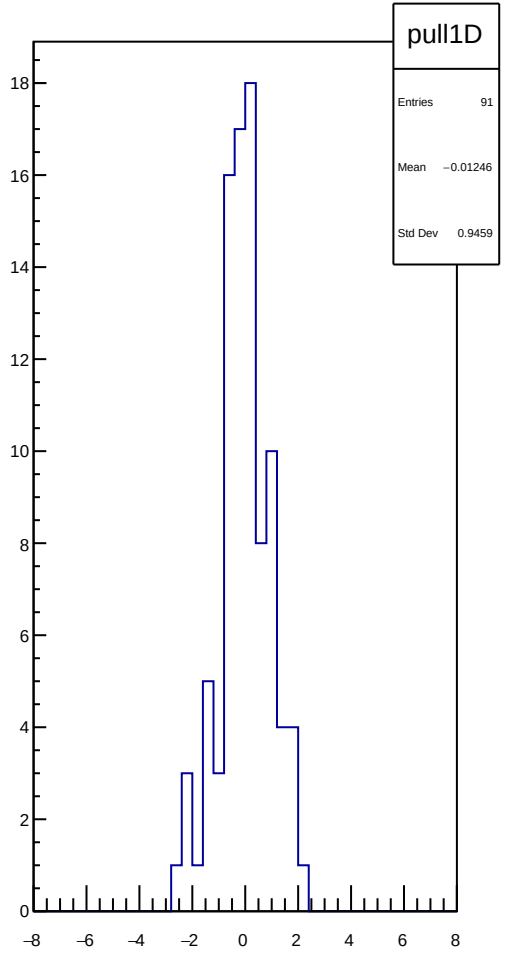

pull1D
Entries 91
Mean −0.01159
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

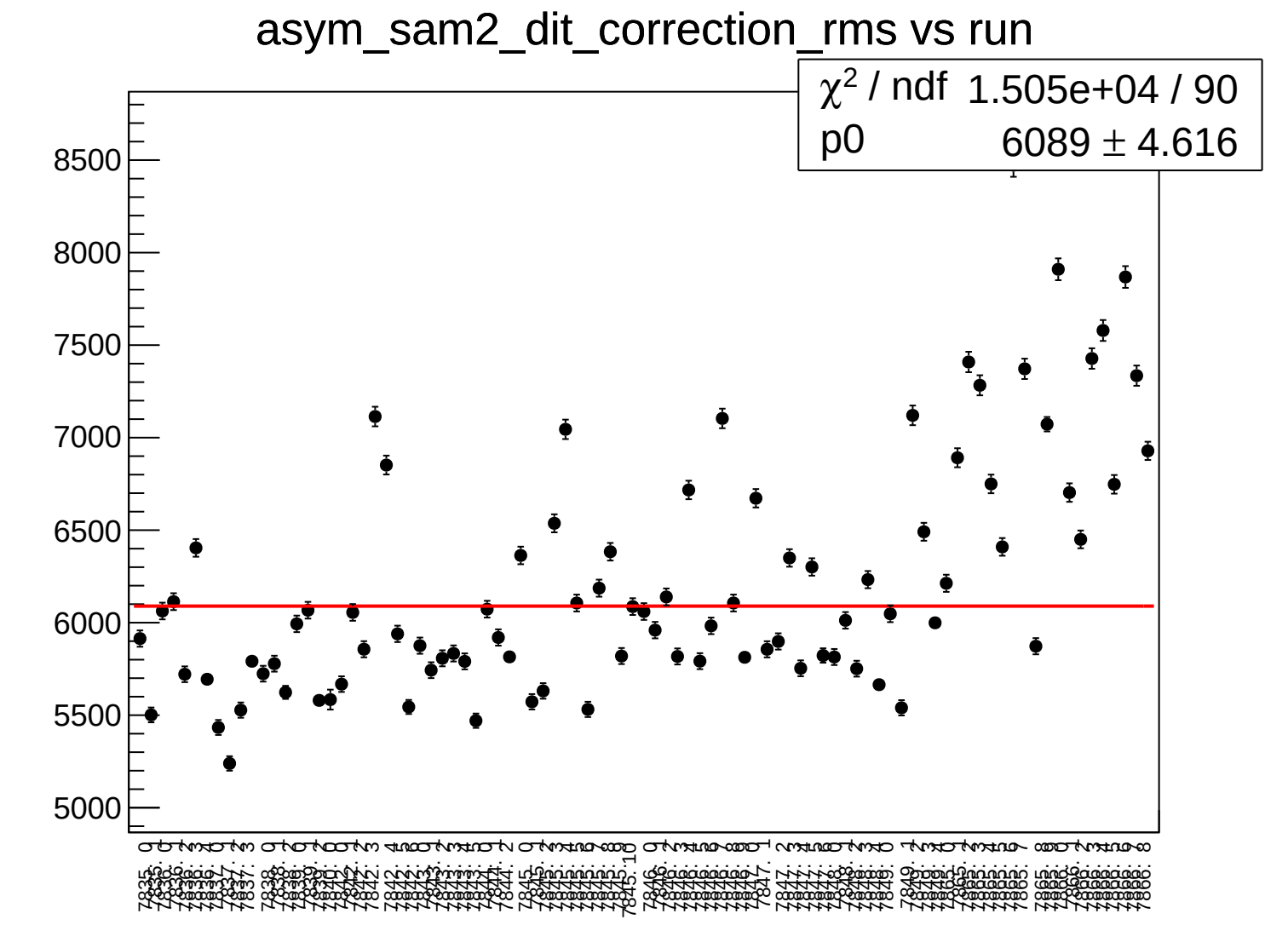

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.472e+04 / 90
p0 6011 ± 4.556
8500
8000
7500
7000
6500
6000
5500
5000

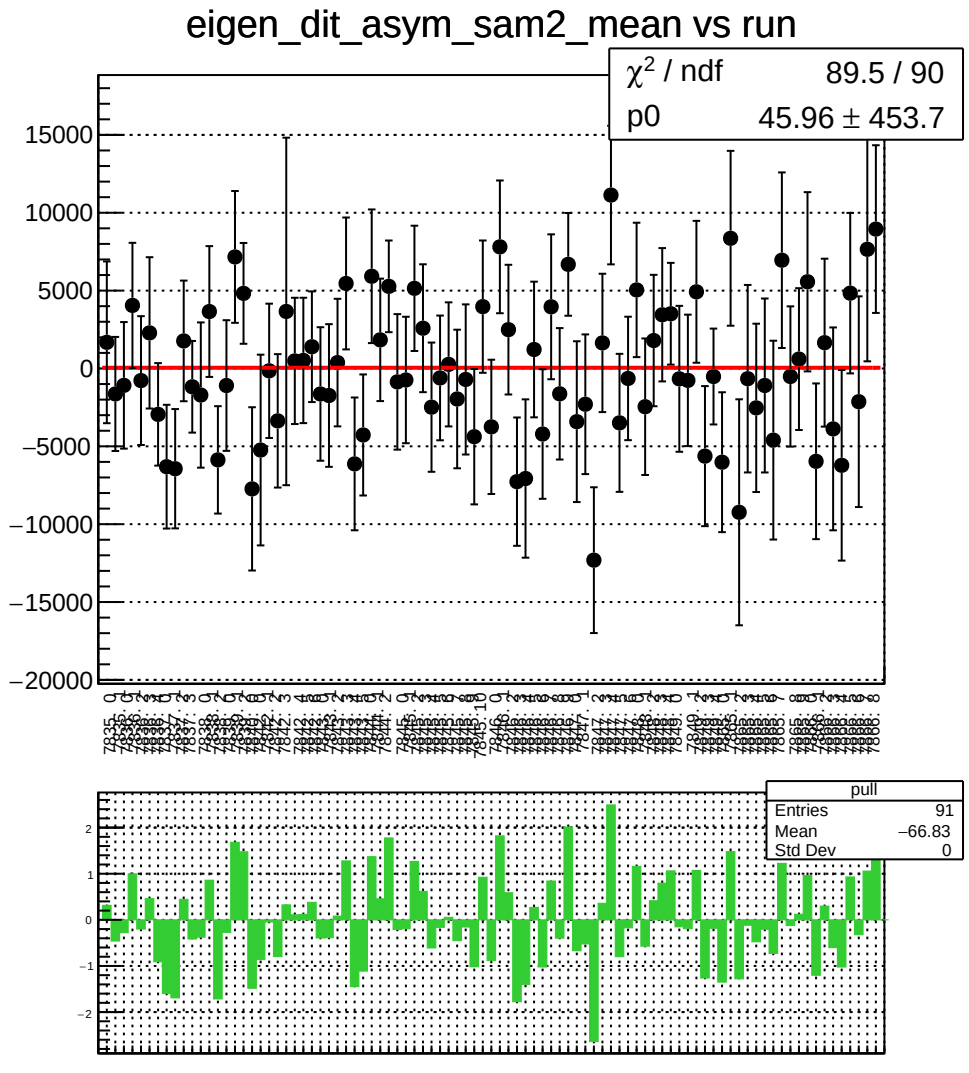

dit_asym_sam2_mean vs run
χ² / ndf 89.5 / 90
p0 45.94 ± 453.7
pull
Entries 91
Mean −66.83
Std Dev 0
pull1D
Entries 91
Mean −0.01886
Std Dev 0.9915

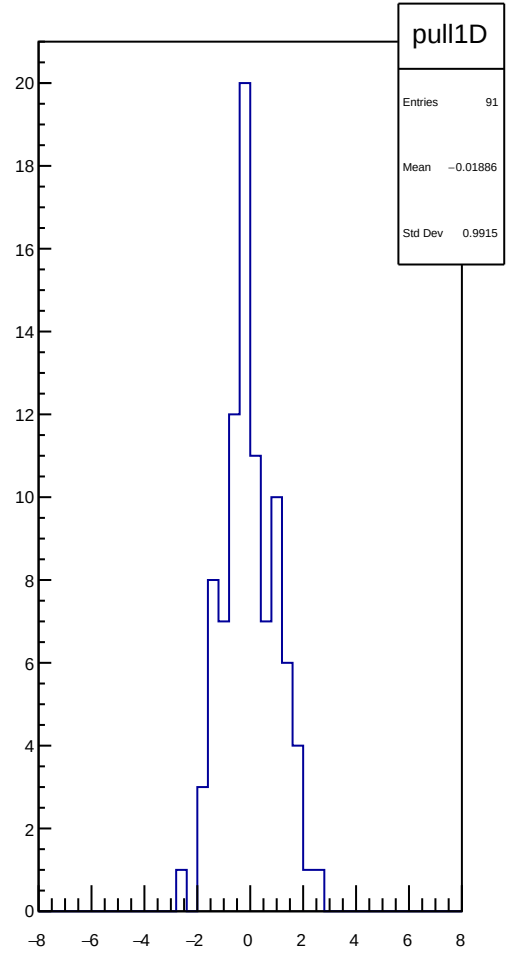

dit_asym_sam2_rms vs run
χ² / ndf 3.875e+04 / 90
p0 420.3 ± 0.3208
1100
1000
900
800
700
600
500
400
300

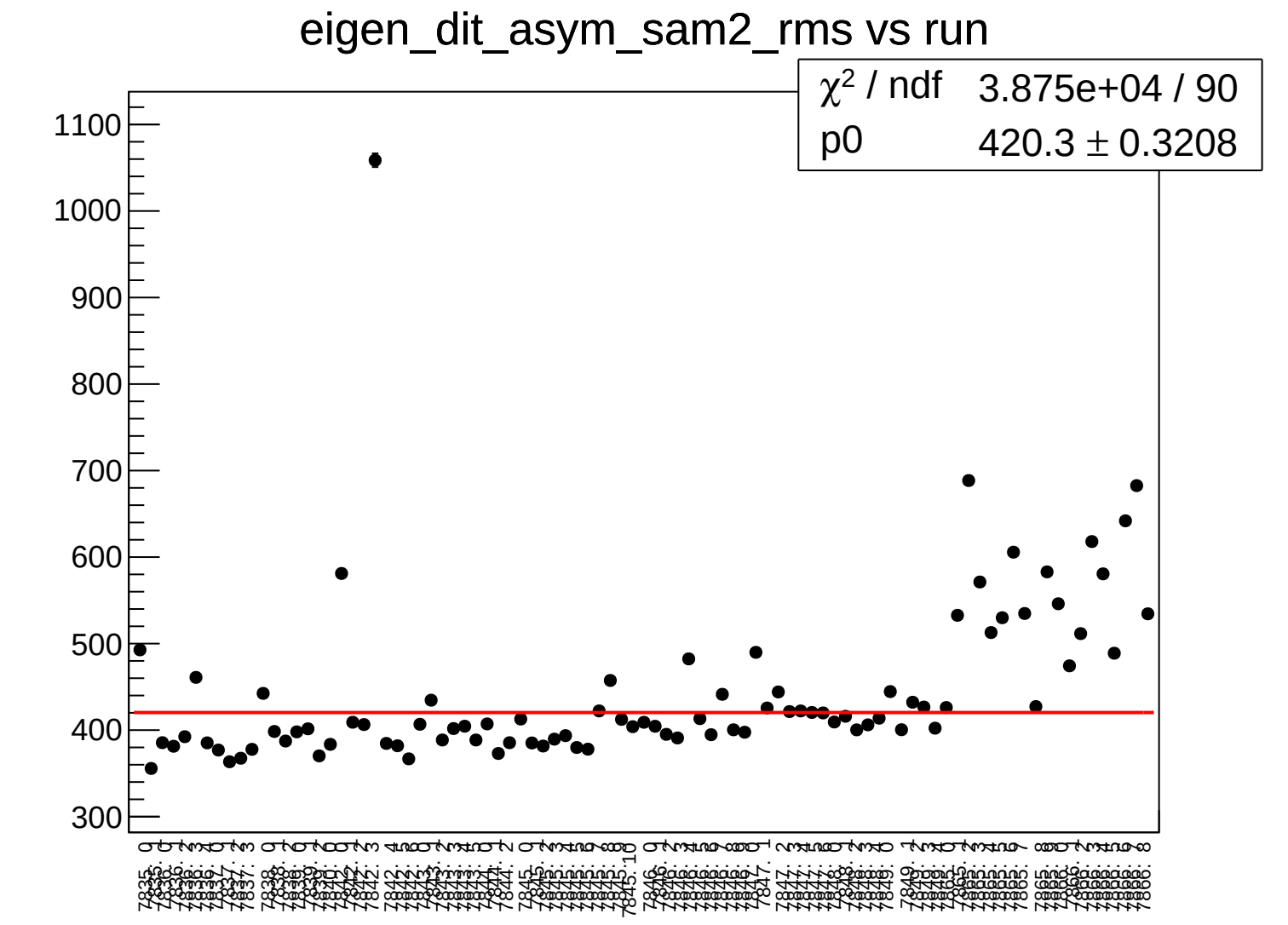

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 81.44 / 90
p0 938 ± 6528
200
100
0
−100
−200
−300
pull
Entries 91
Mean 45.37
Std Dev 0
2
1
0
−1
−2

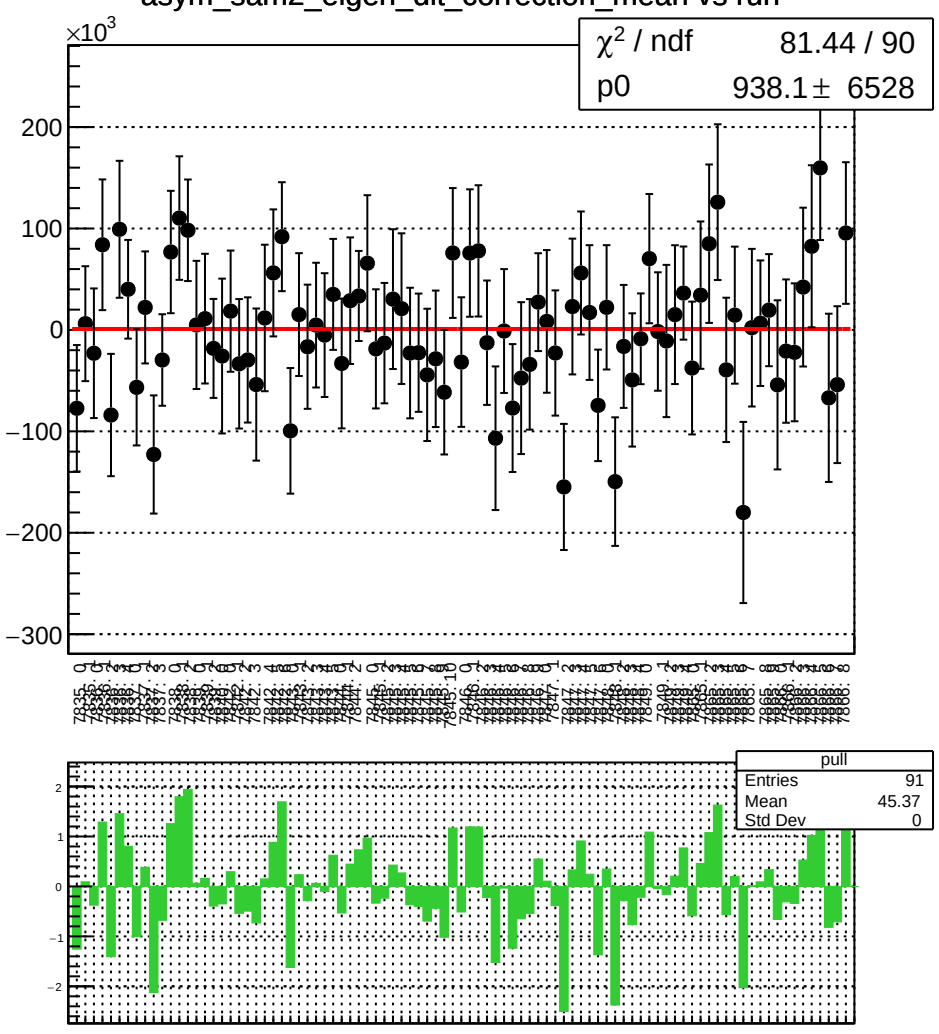

pull1D
Entries 91
Mean −0.01246
Std Dev 0.9459
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

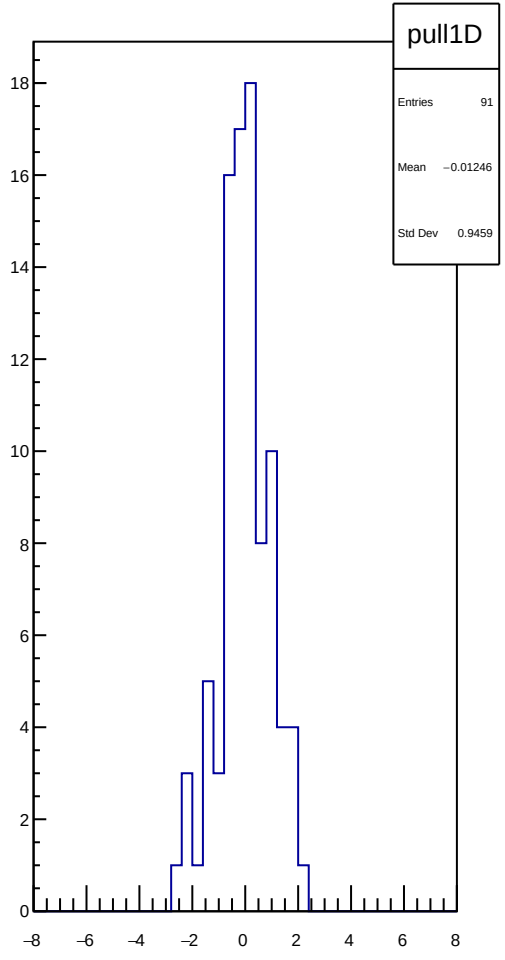

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.505e+04 / 90
p0 6089 ± 4.616
8500
8000
7500
7000
6500
6000
5500
5000

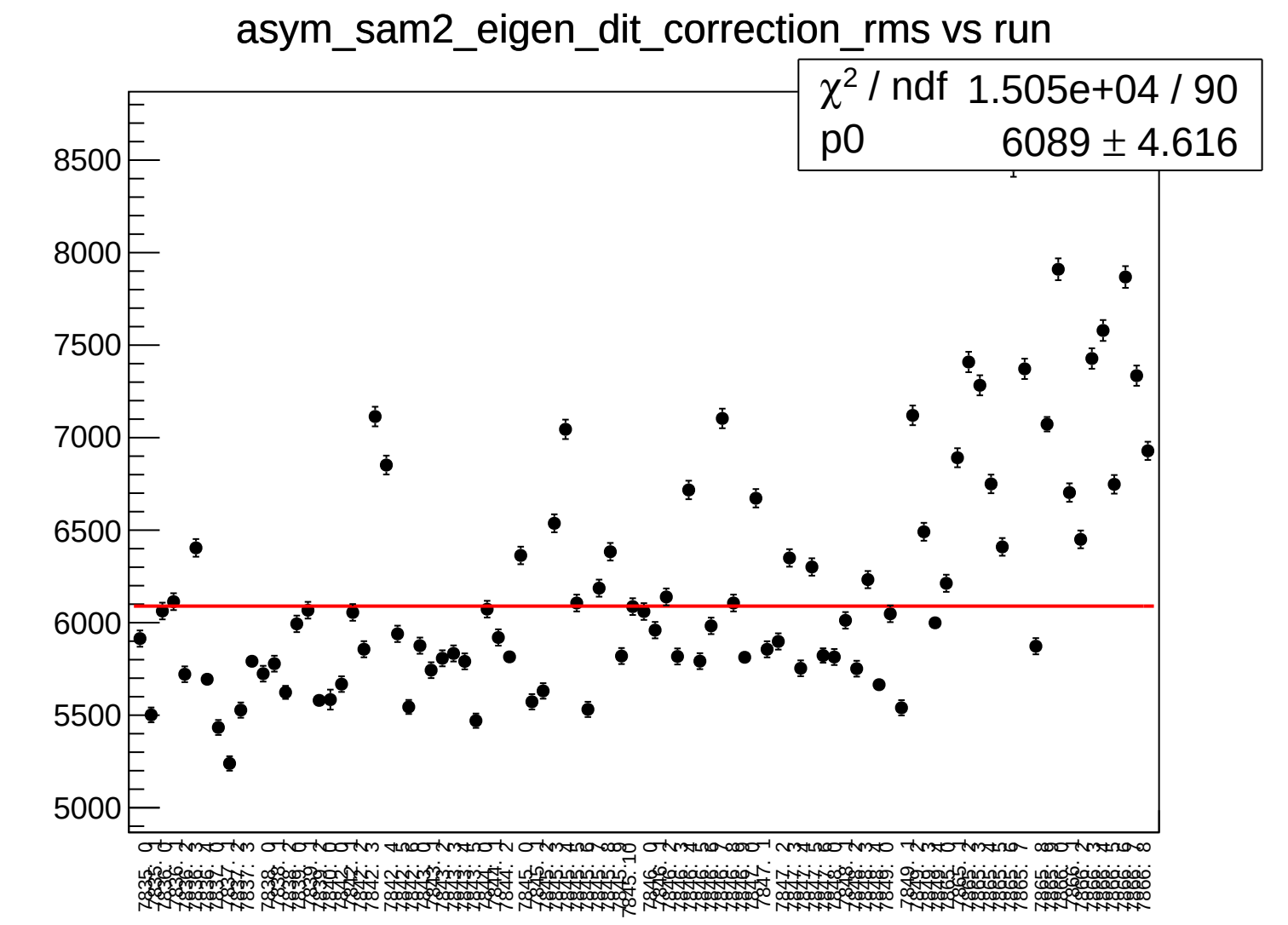

eigen_dit_asym_sam2_mean vs run
χ² / ndf 89.5 / 90
p0 45.96 ± 453.7
pull
Entries 91
Mean −66.83
Std Dev 0

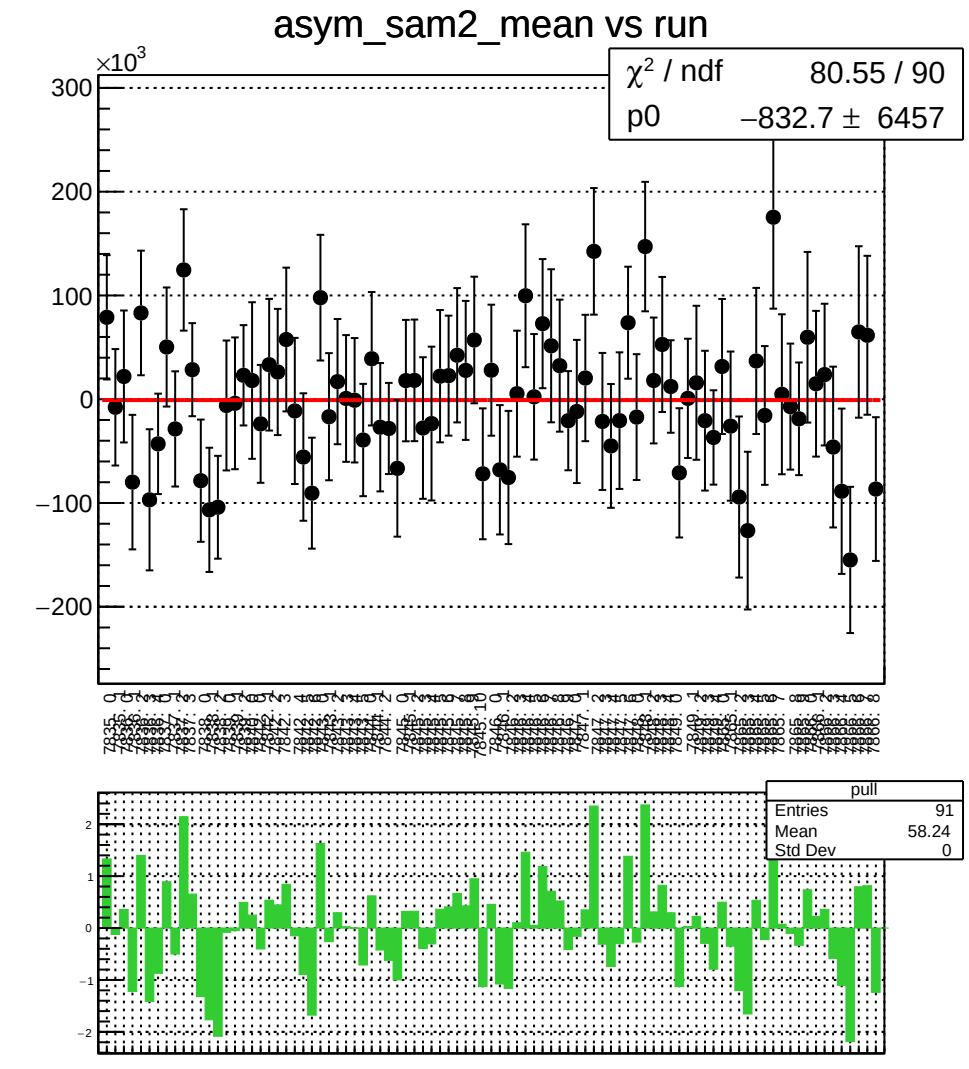

pull1D
Entries 91
Mean −0.01886
Std Dev 0.9915

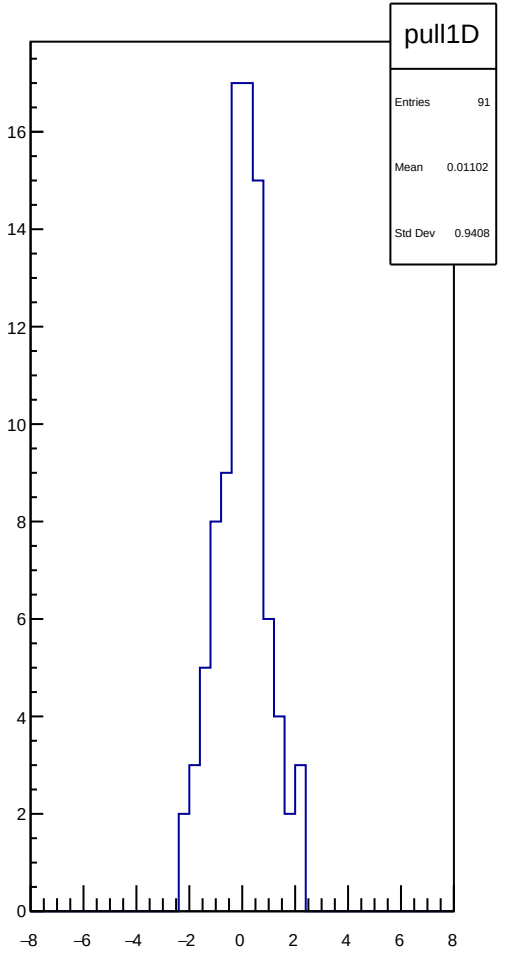

eigen_dit_asym_sam2_rms vs run
χ² / ndf 3.875e+04 / 90
p0 420.3 ± 0.3208
1100
1000
900
800
700
600
500
400
300

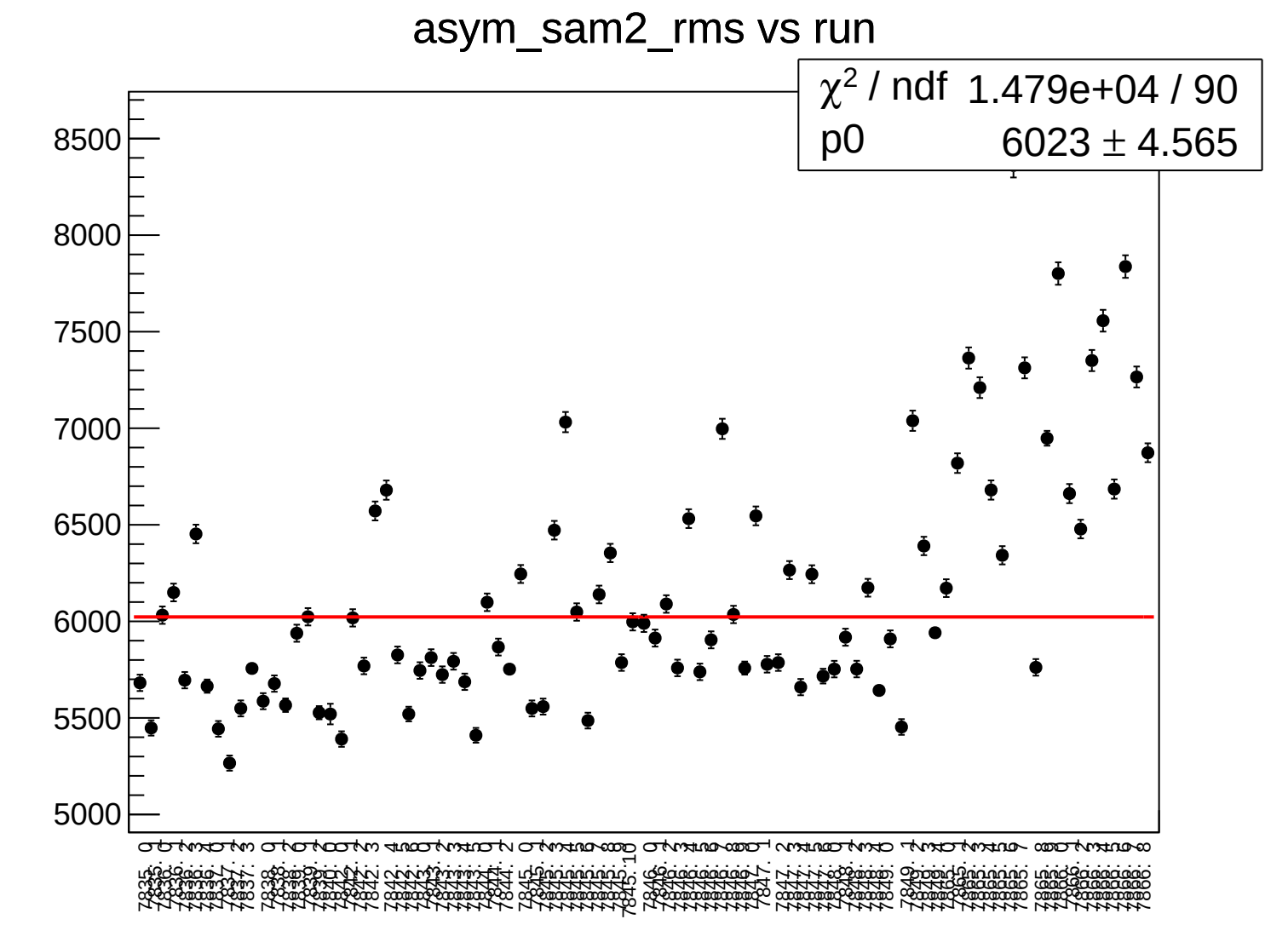

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.44 / 90
p0 938.1 ± 6528
200
100
0
−100
−200
−300
pull
Entries 91
Mean 45.37
Std Dev 0
2
1
0
−1
−2

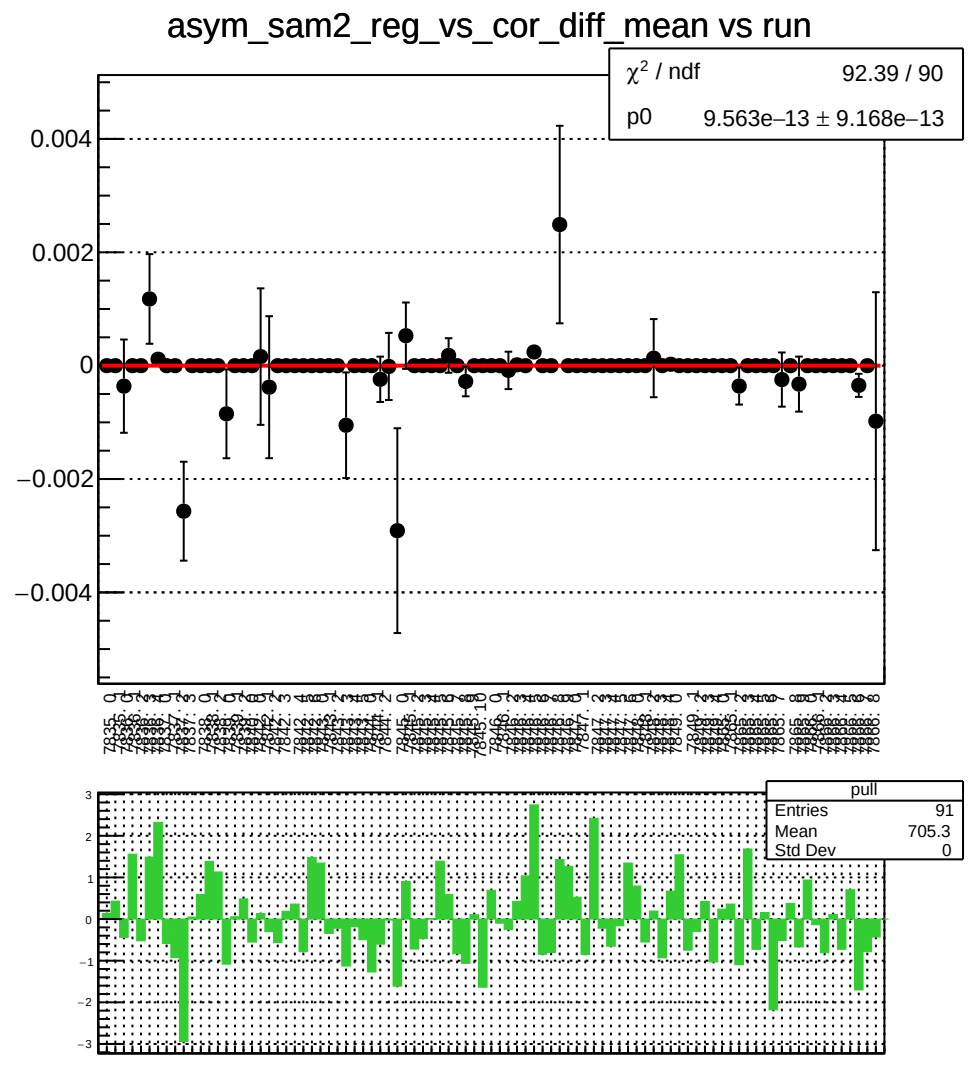

pull1D
Entries 91
Mean −0.01246
Std Dev 0.9459
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

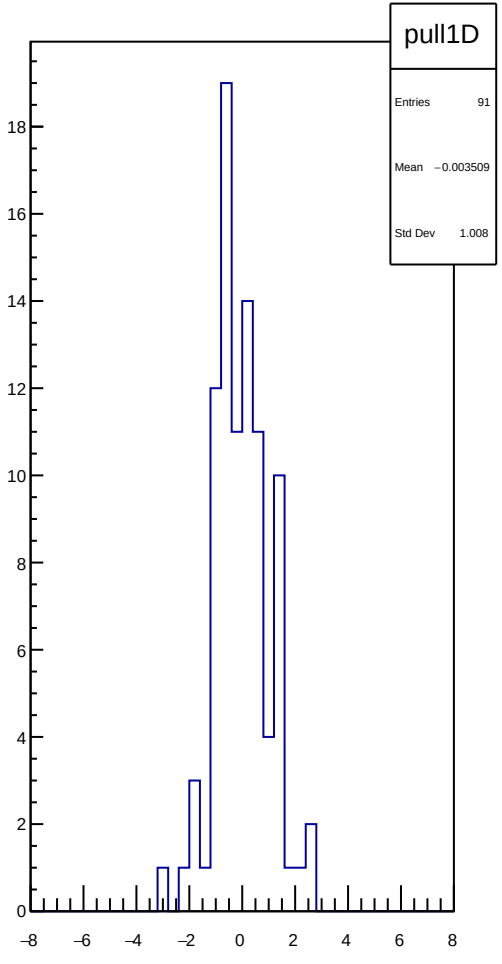

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.505e+04 / 90
p0 6089 ± 4.616
8500
8000
7500
7000
6500
6000
5500
5000

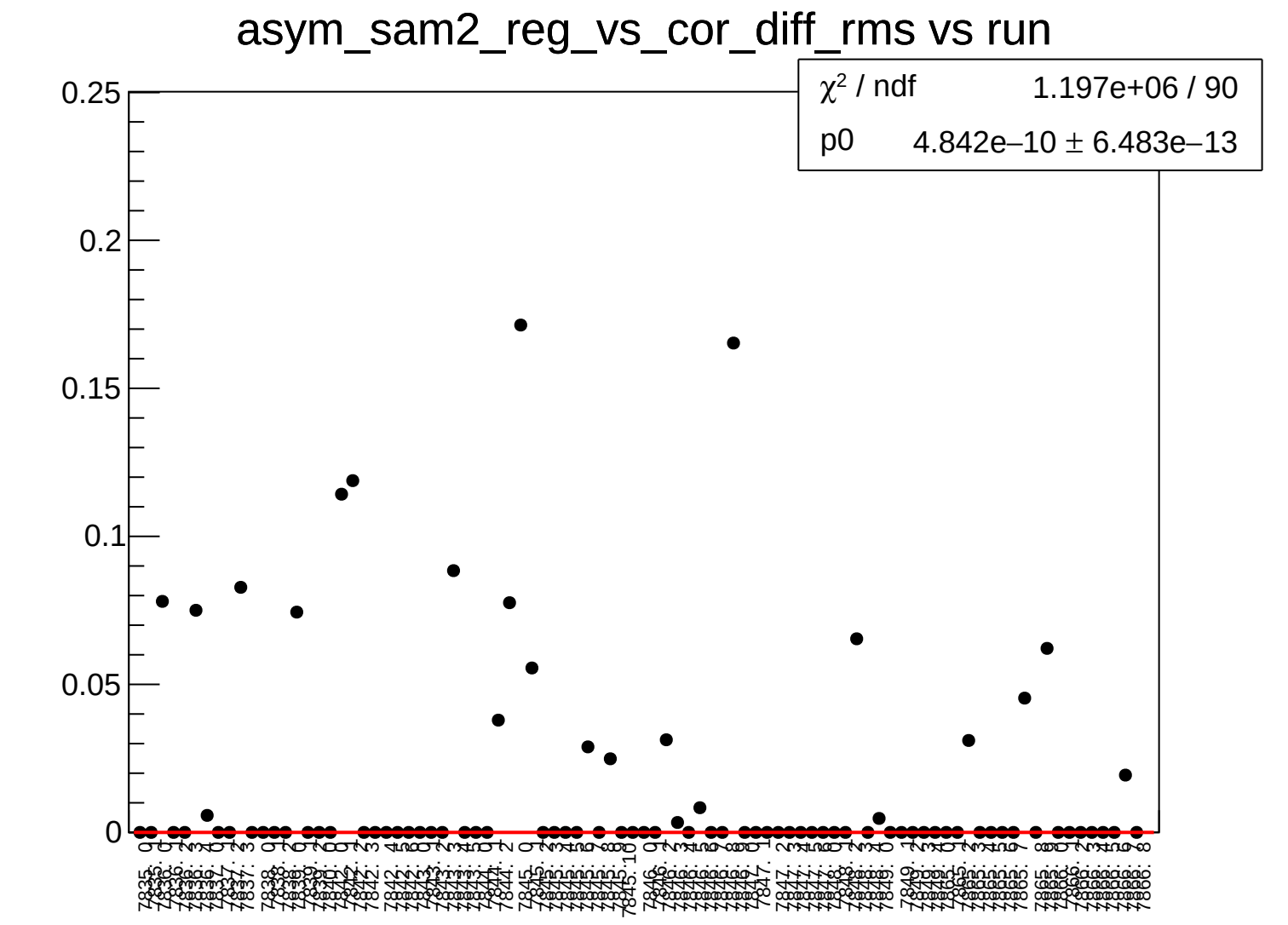

asym_sam2_mean vs run
×10^3
χ² / ndf 80.55 / 90
p0 −832.7 ± 6457
pull
Entries 91
Mean 58.24
Std Dev 0

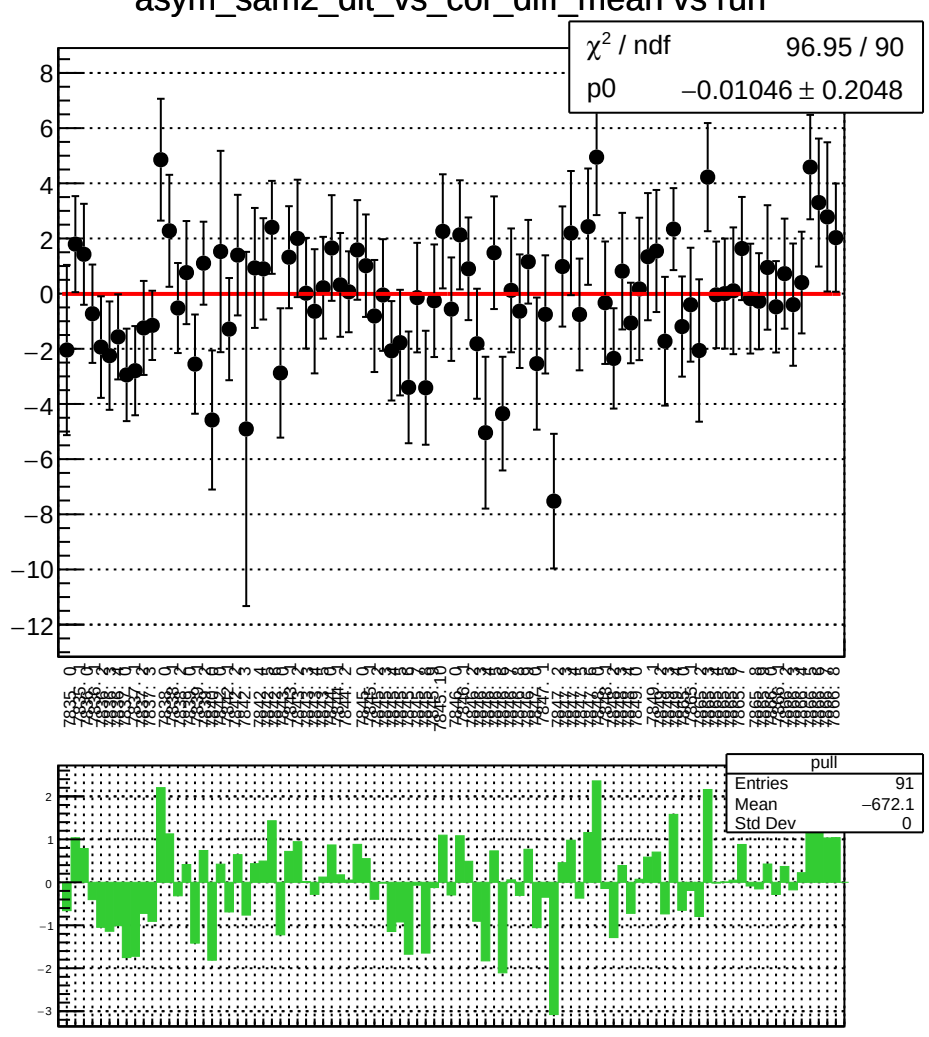

pull1D
Entries 91
Mean 0.01102
Std Dev 0.9408

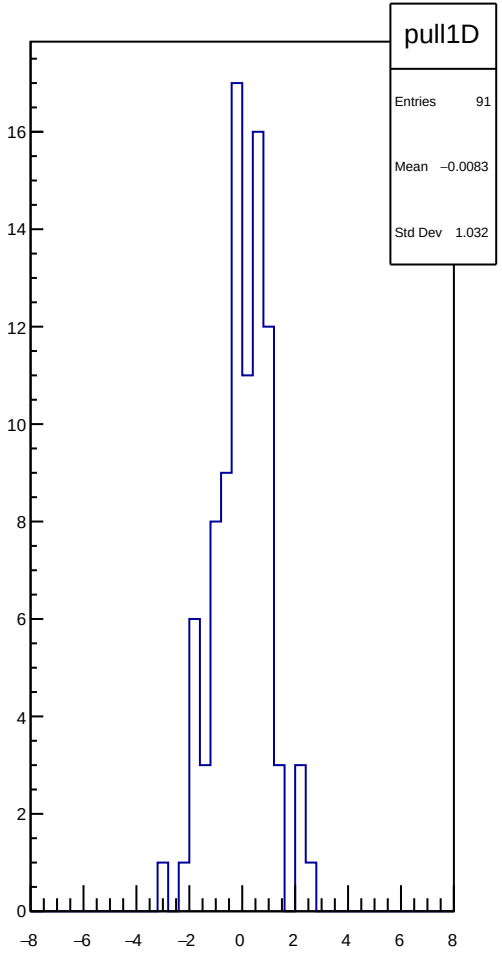

asym_sam2_rms vs run
χ² / ndf 1.479e+04 / 90
p0 6023 ± 4.565
8500
8000
7500
7000
6500
6000
5500
5000

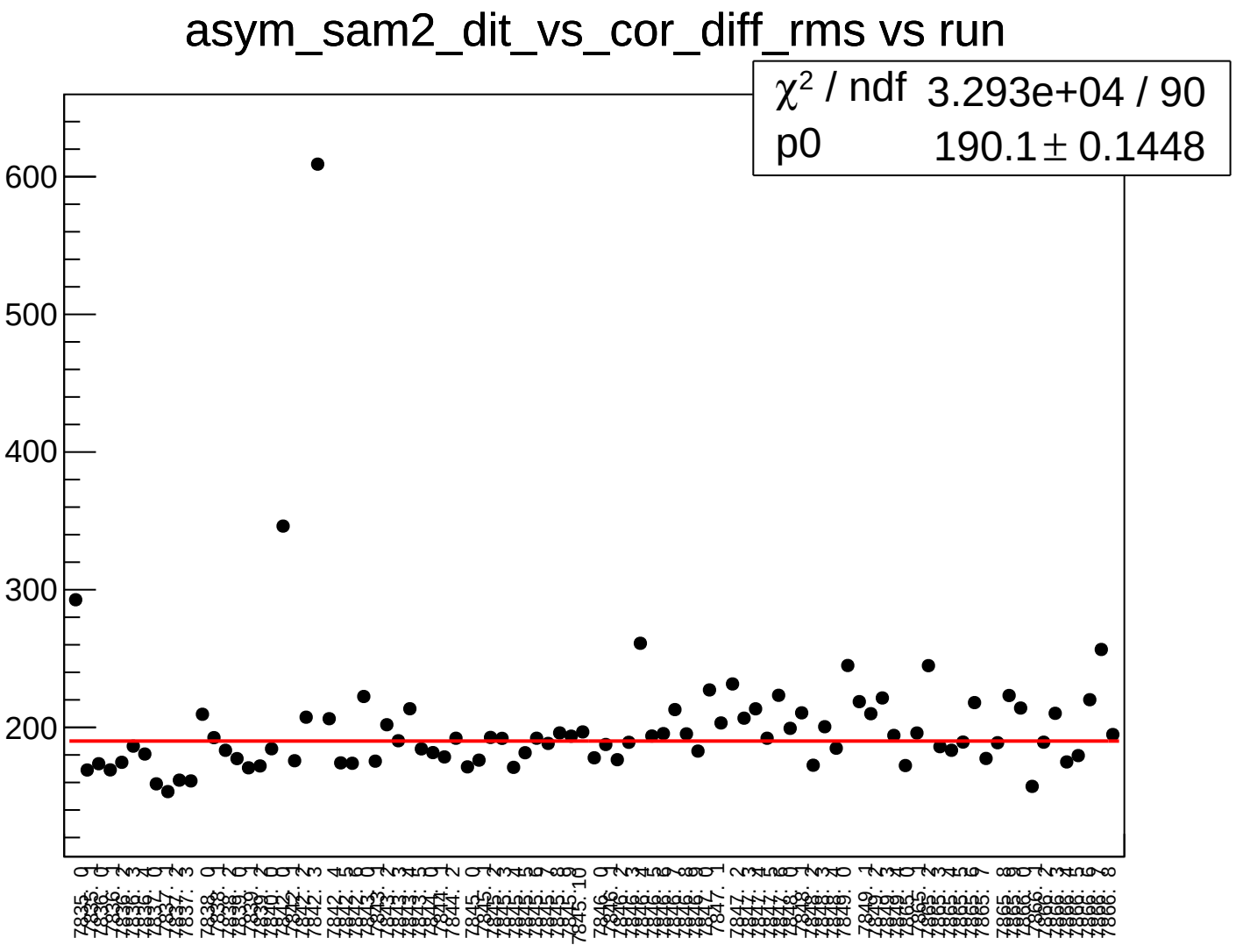

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 90
p0 9.563e−13 ± 9.168e−13
0.004
0.002
0
−0.002
−0.004
pull
Entries 91
Mean 705.3
Std Dev 0
3
2
1
0
−1
−2
−3

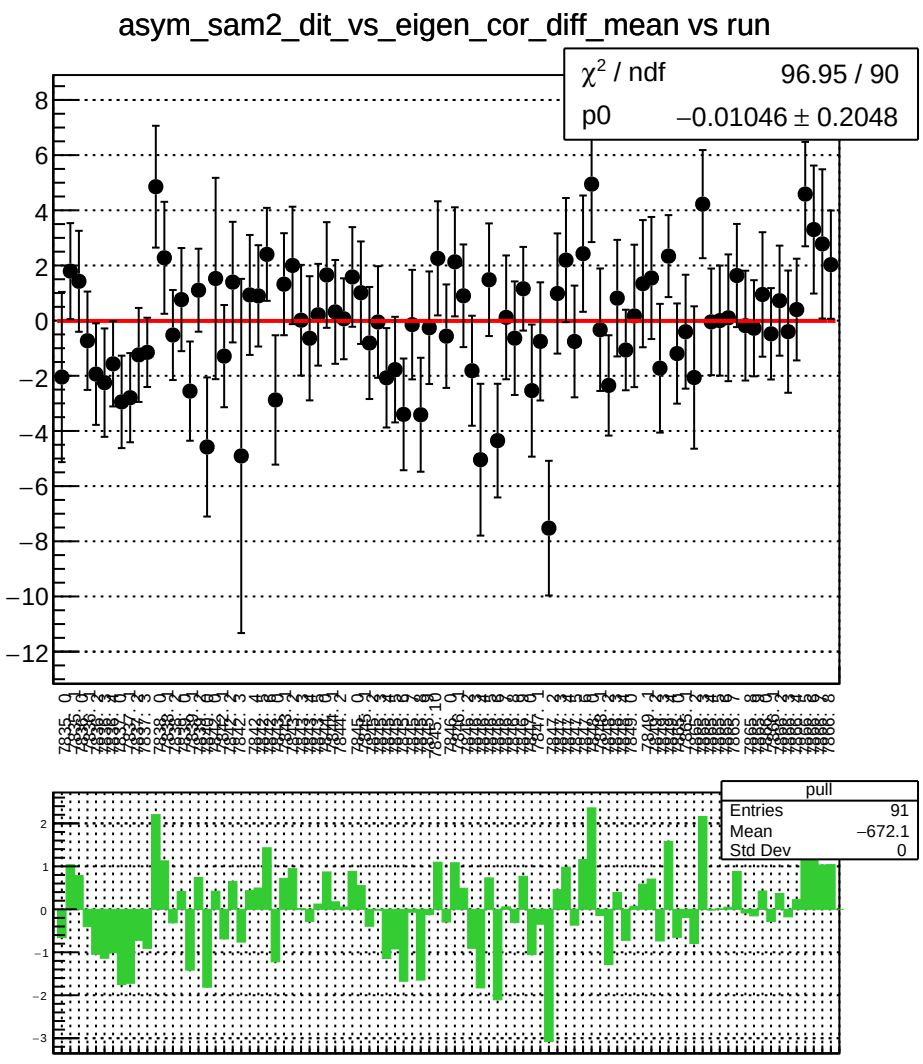

pull1D
Entries 91
Mean −0.003509
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

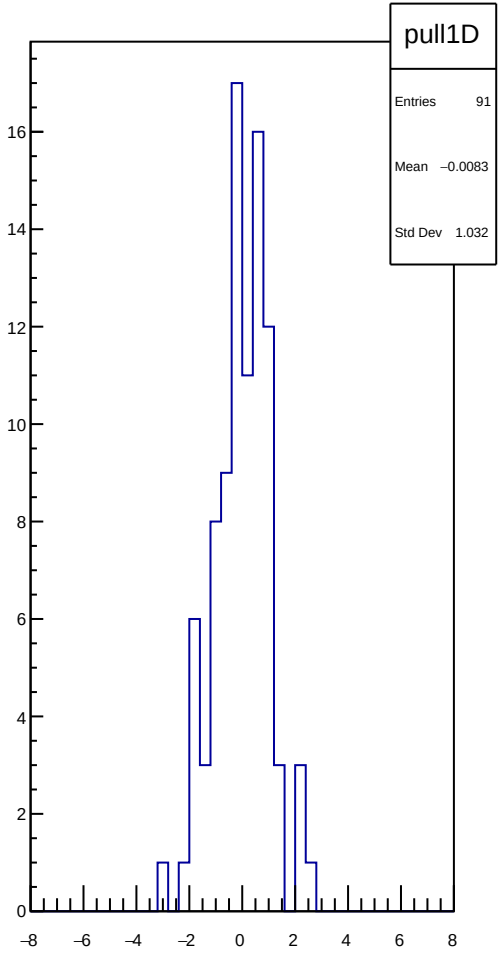

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.197e+06 / 90
p0 4.842e−10 ± 6.483e−13
0.25
0.2
0.15
0.1
0.05
0

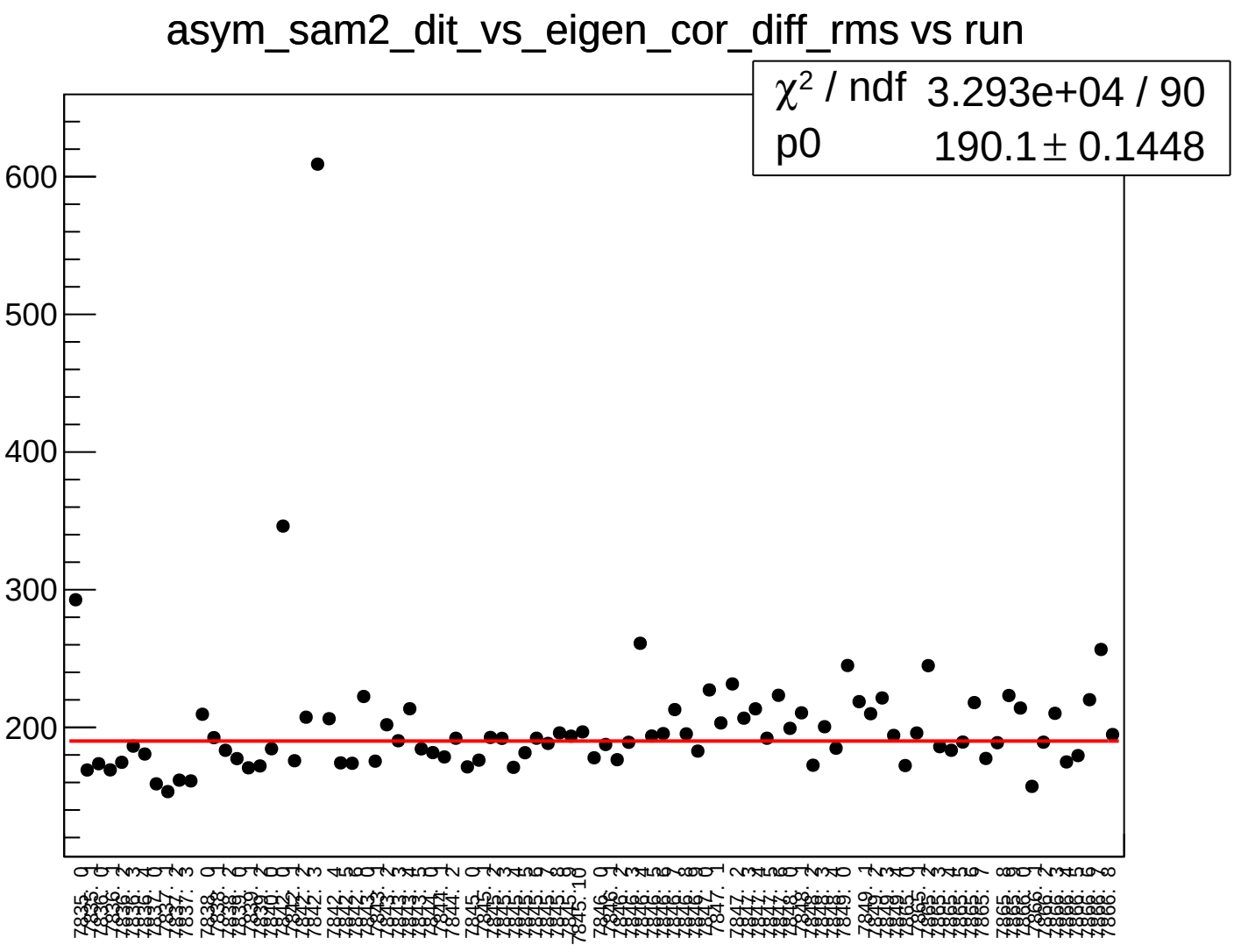

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 96.95 / 90
p0 −0.01046 ± 0.2048
pull
Entries 91
Mean −672.1
Std Dev 0

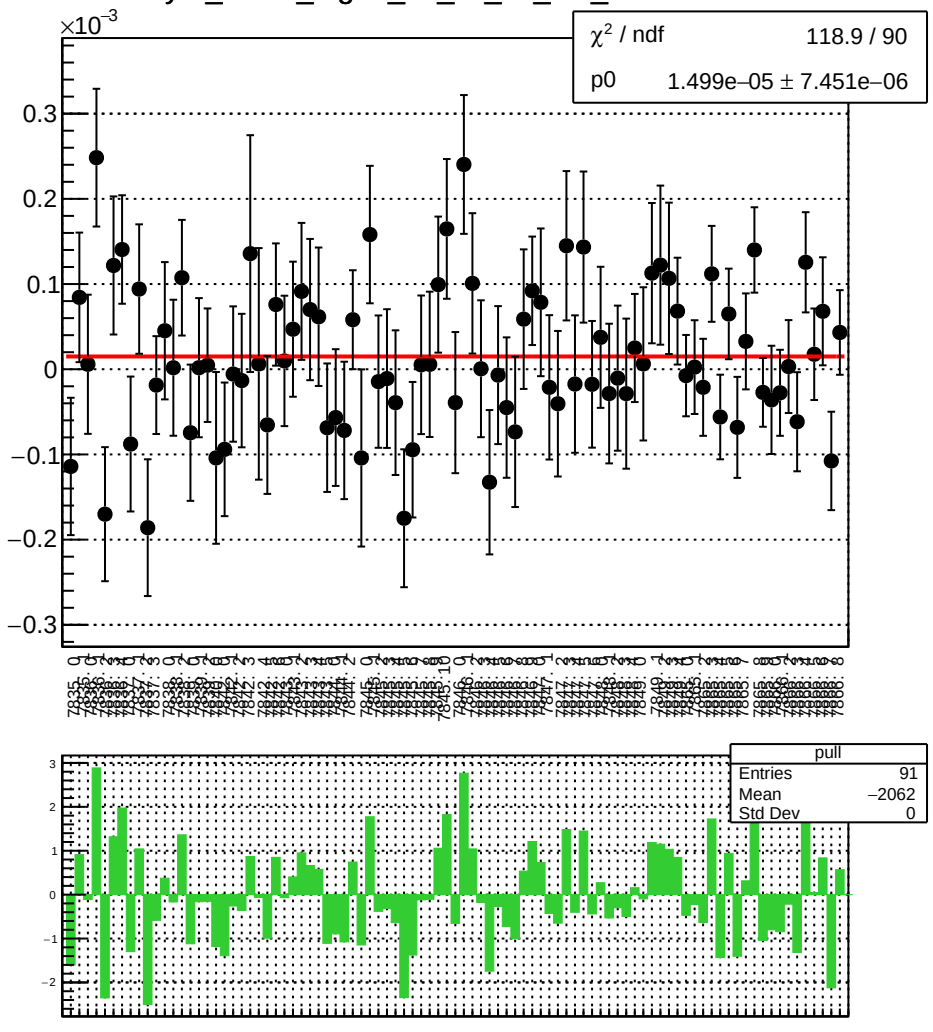

pull1D
Entries 91
Mean −0.0083
Std Dev 1.032

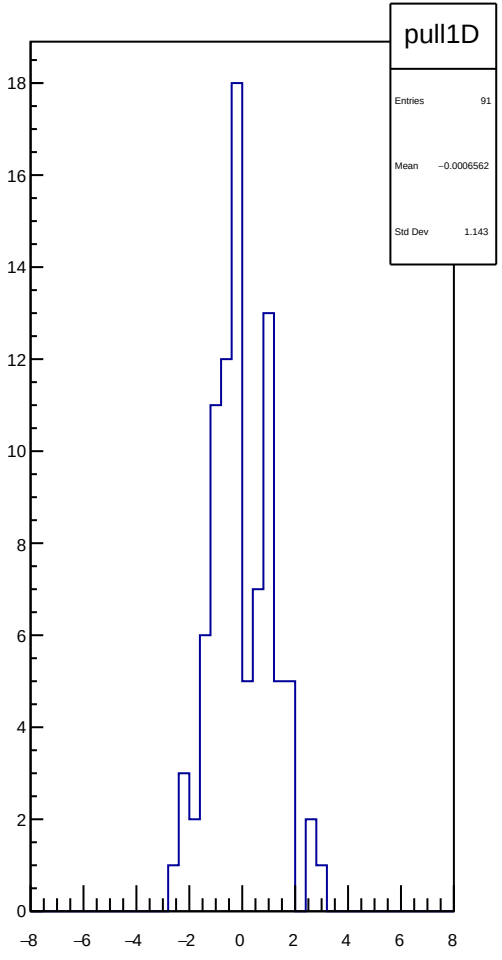

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.293e+04 / 90
p0 190.1 ± 0.1448
600
500
400
300
200

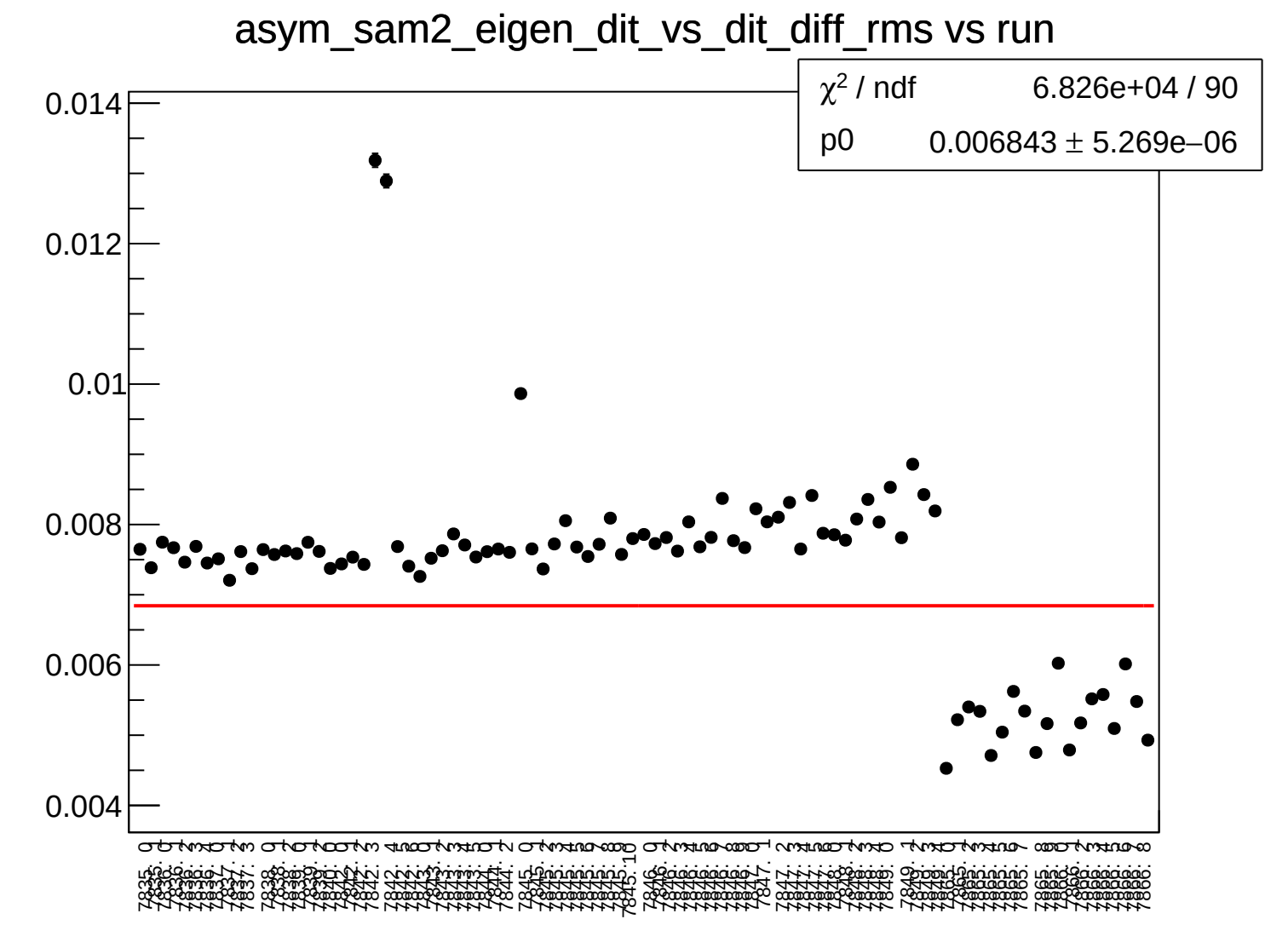

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.95 / 90
p0 −0.01046 ± 0.2048
pull
Entries 91
Mean −672.1
Std Dev 0

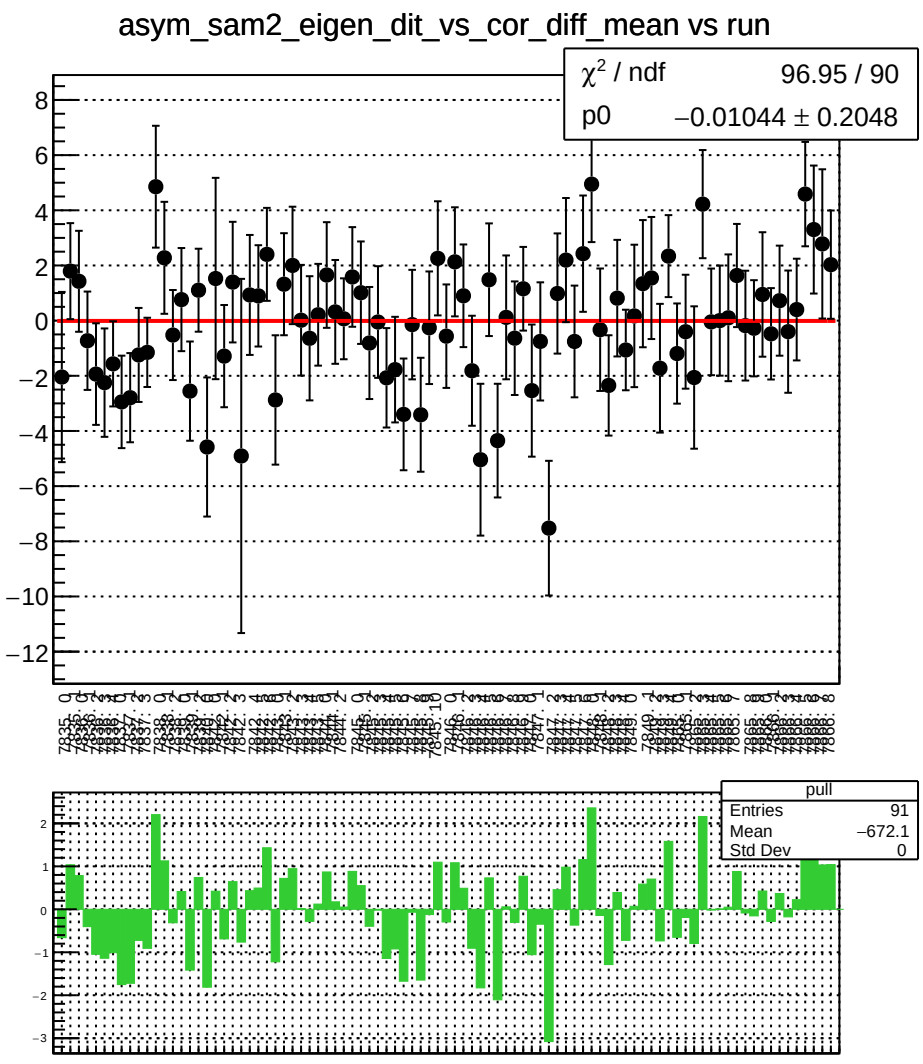

pull1D
Entries 91
Mean −0.0083
Std Dev 1.032

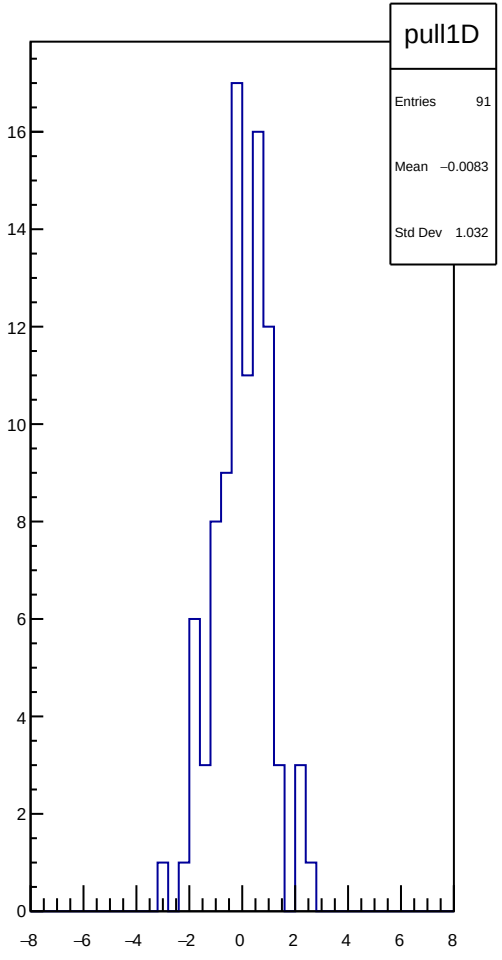

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.293e+04 / 90
p0 190.1 ± 0.1448
600
500
400
300
200

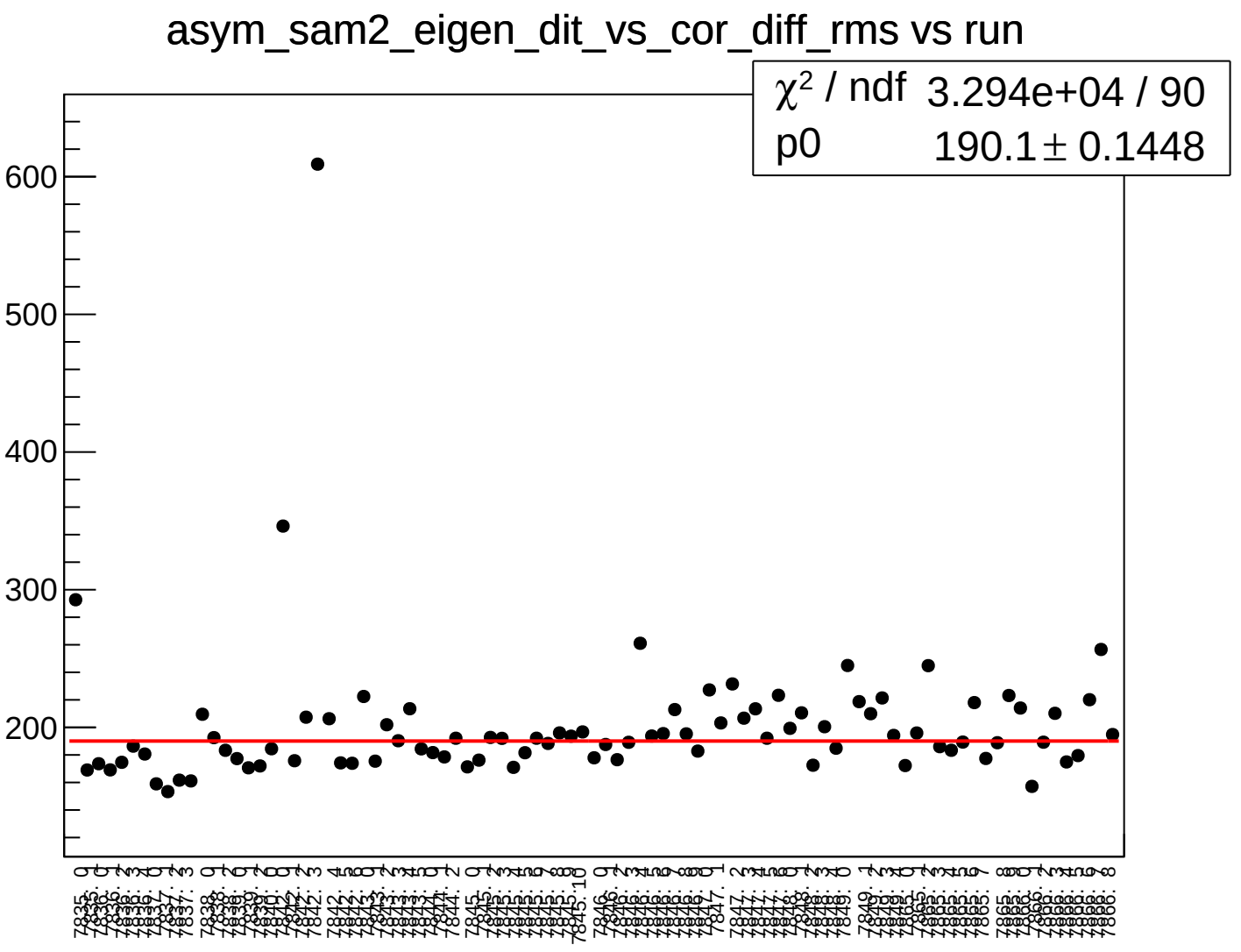

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.9 / 90
p0 1.499e−05 ± 7.451e−06
pull
Entries 91
Mean −2062
Std Dev 0

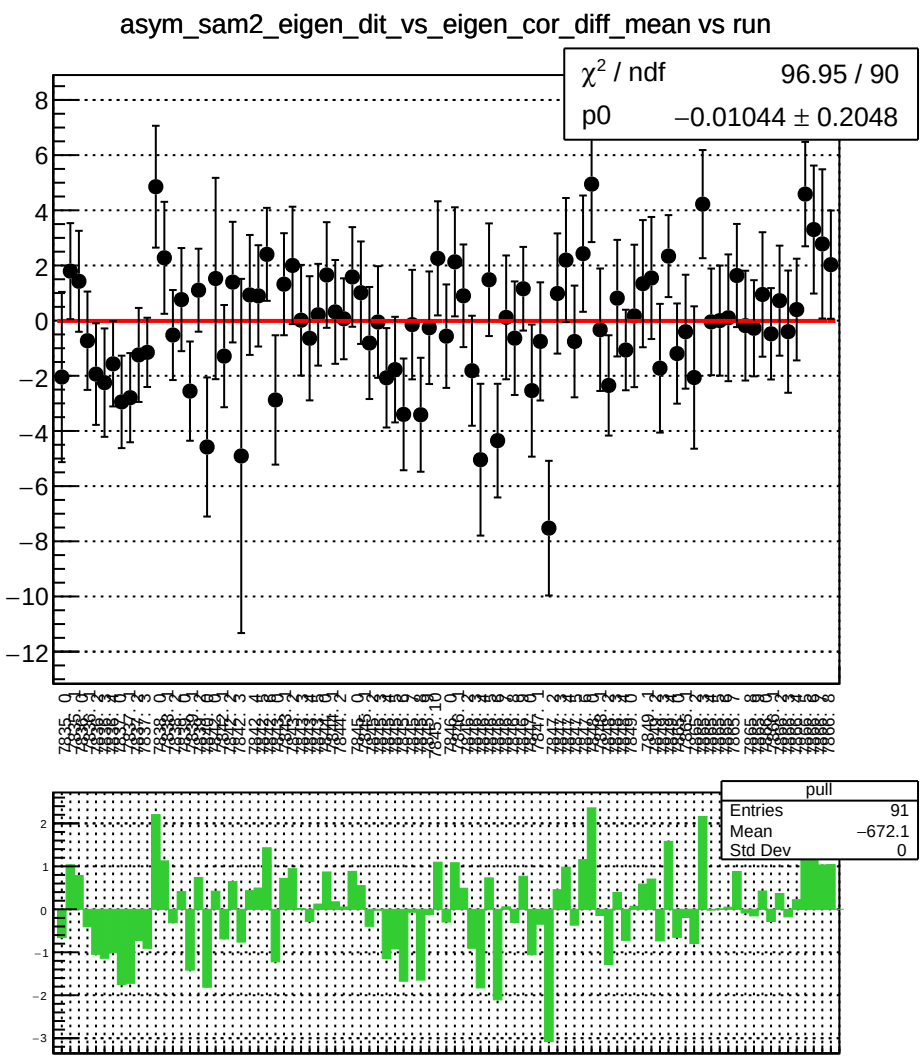

pull1D
Entries 91
Mean −0.0006562
Std Dev 1.143

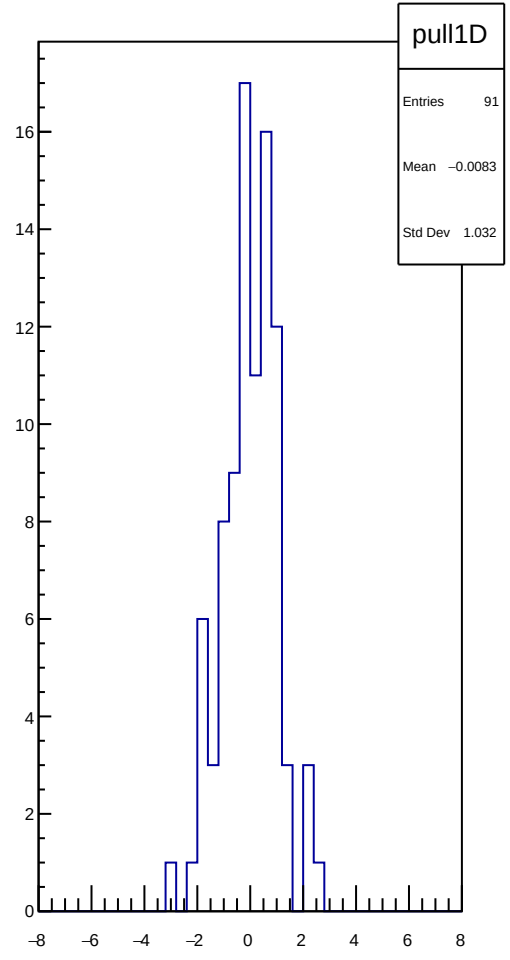

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.826e+04 / 90
p0 0.006843 ± 5.269e−06
0.014
0.012
0.01
0.008
0.006
0.004

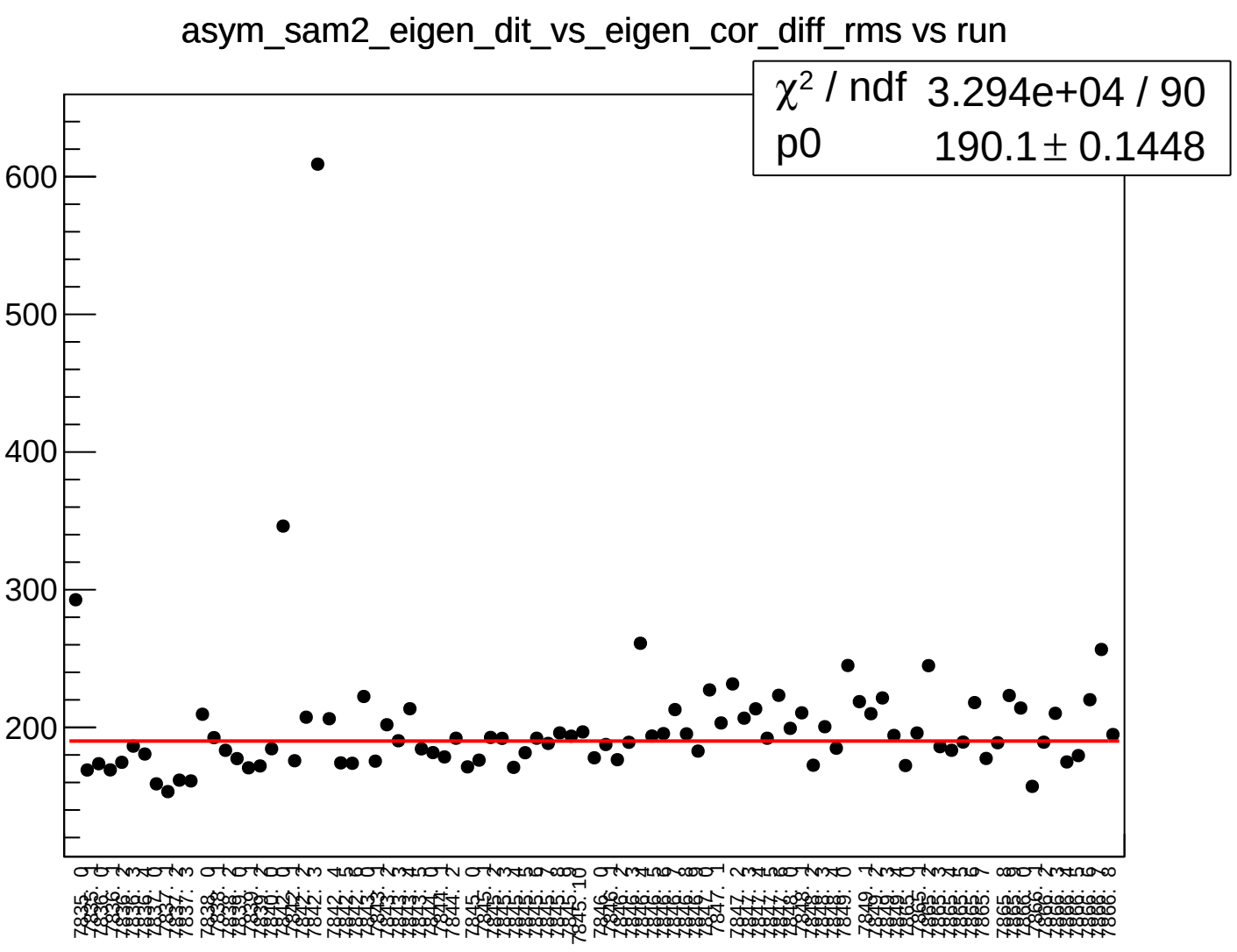

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.95 / 90
p0 −0.01044 ± 0.2048
pull
Entries 91
Mean −672.1
Std Dev 0

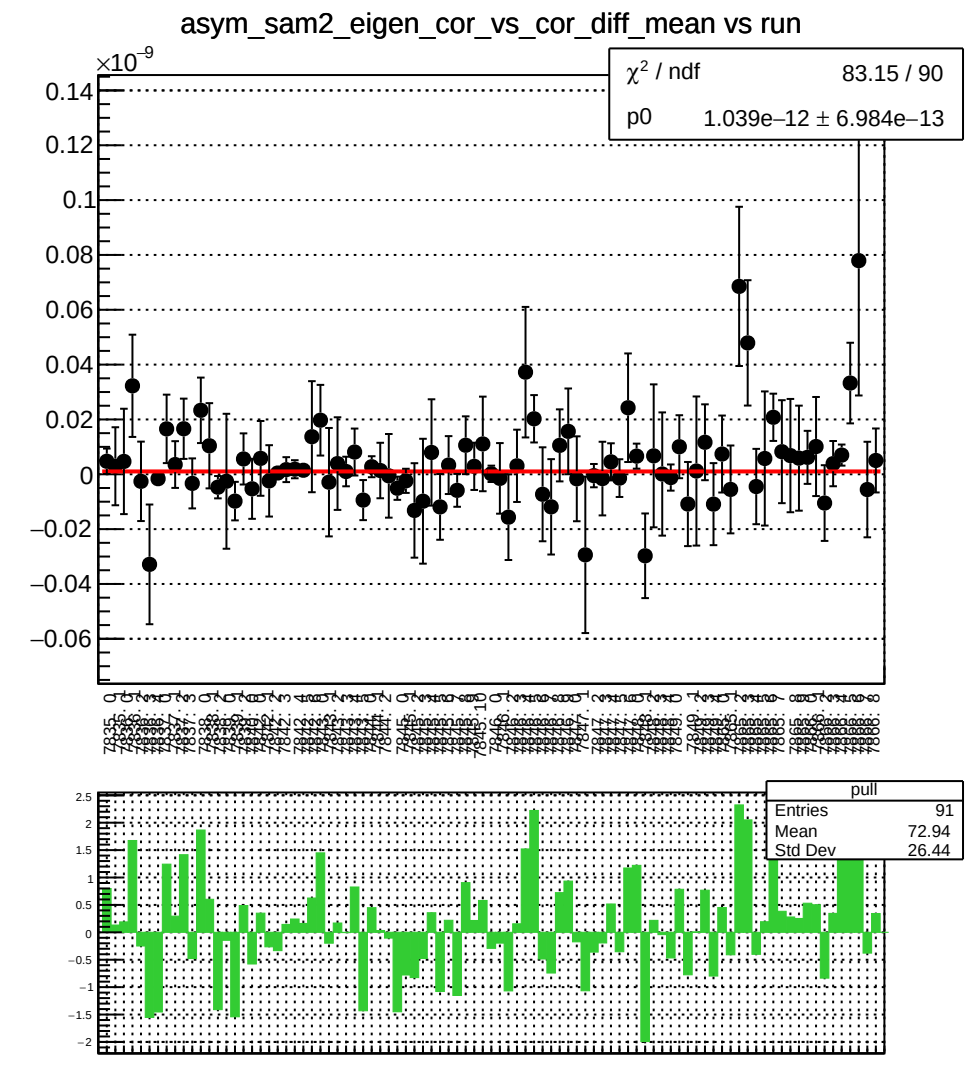

pull1D
Entries 91
Mean −0.0083
Std Dev 1.032

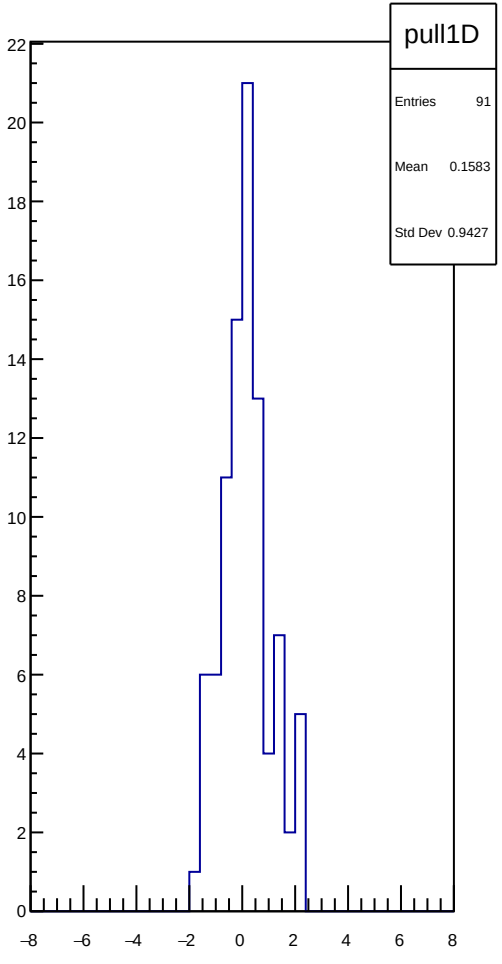

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.294e+04 / 90
p0 190.1 ± 0.1448
600
500
400
300
200

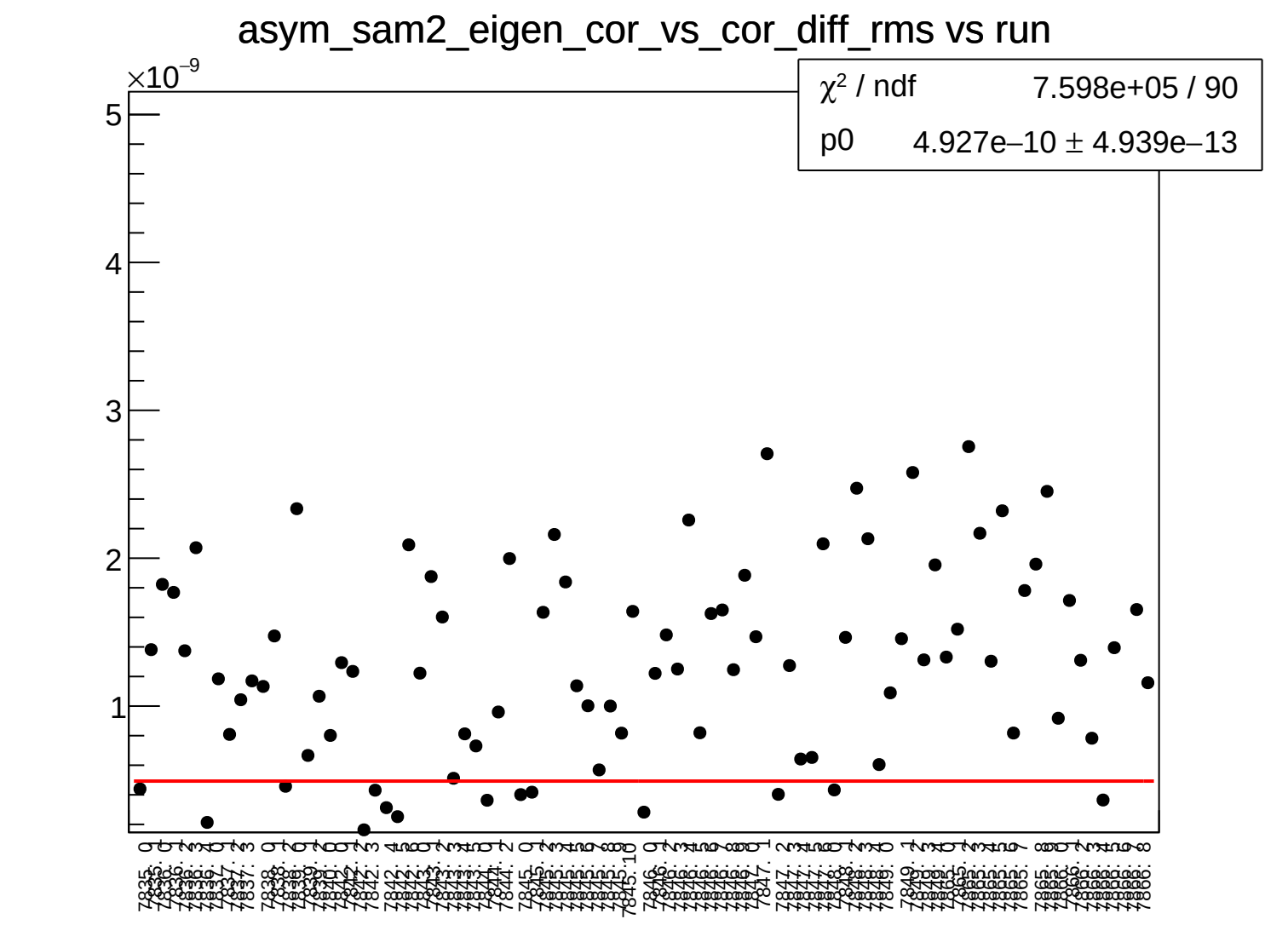

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.95 / 90
p0 −0.01044 ± 0.2048
pull
Entries 91
Mean −672.1
Std Dev 0

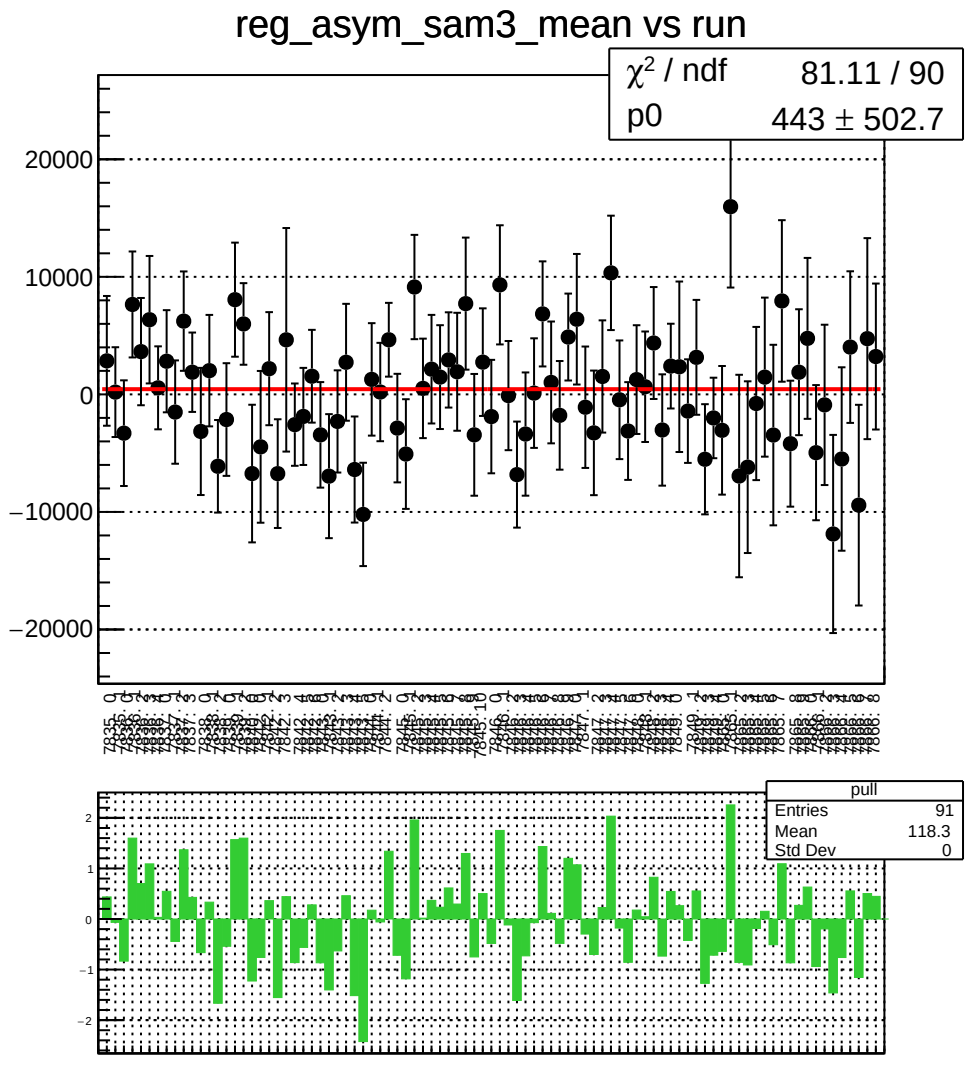

pull1D
Entries 91
Mean −0.0083
Std Dev 1.032

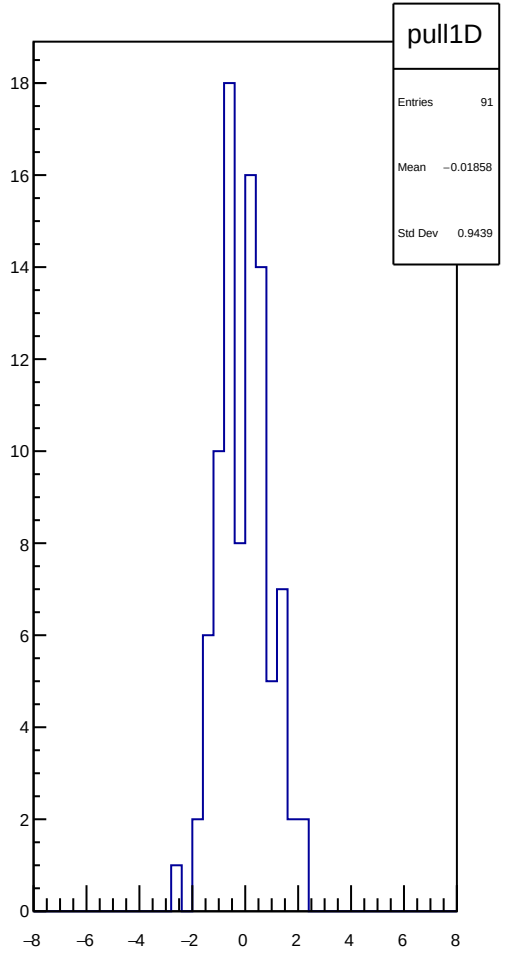

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.294e+04 / 90
p0 190.1 ± 0.1448
600
500
400
300
200

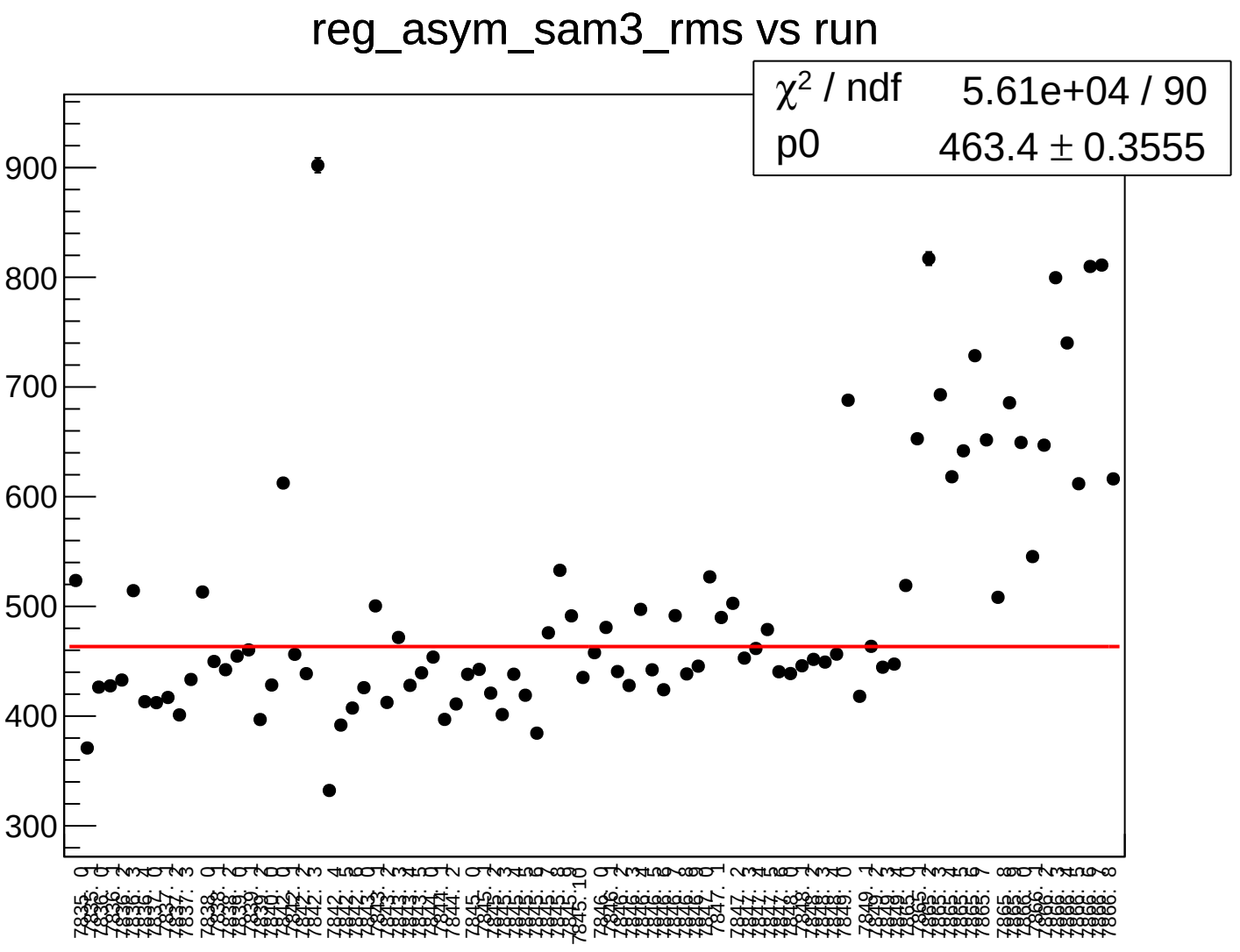

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 83.15 / 90
p0 1.039e−12 ± 6.984e−13
pull
Entries 91
Mean 72.94
Std Dev 26.44

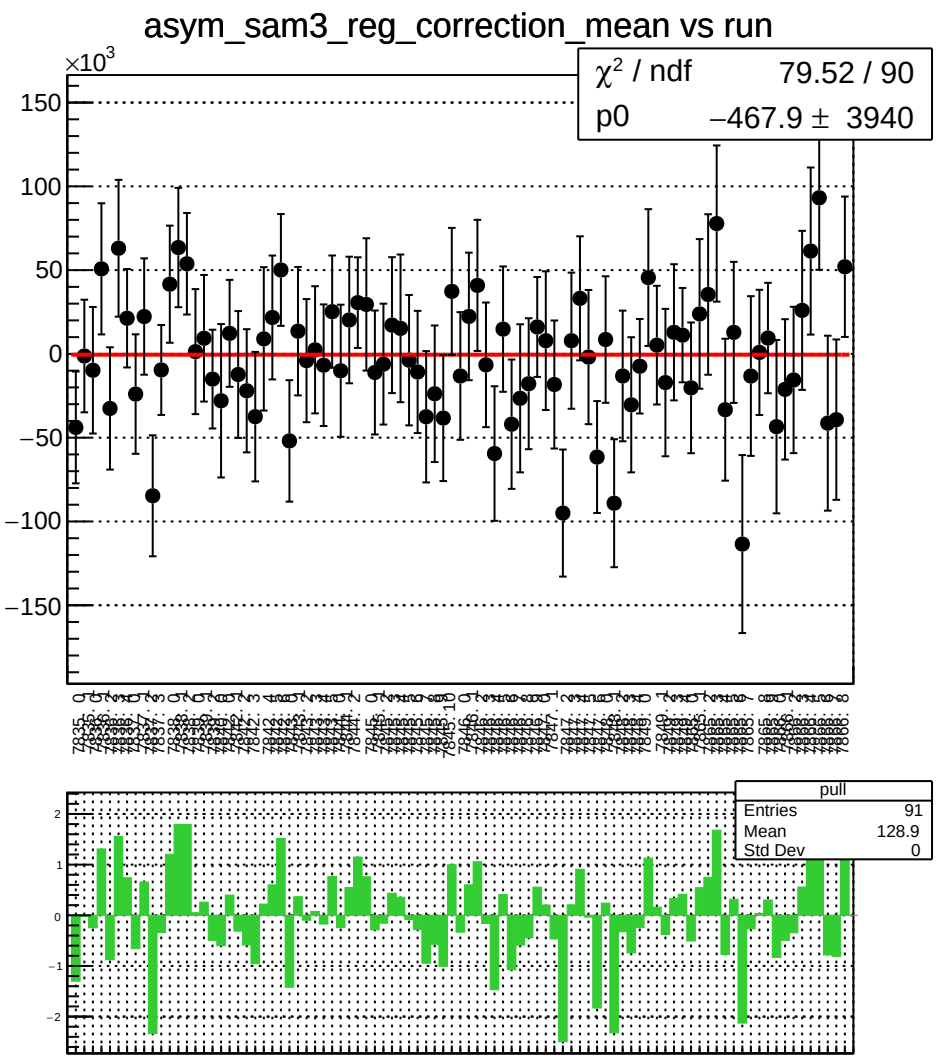

pull1D
Entries 91
Mean 0.1583
Std Dev 0.9427

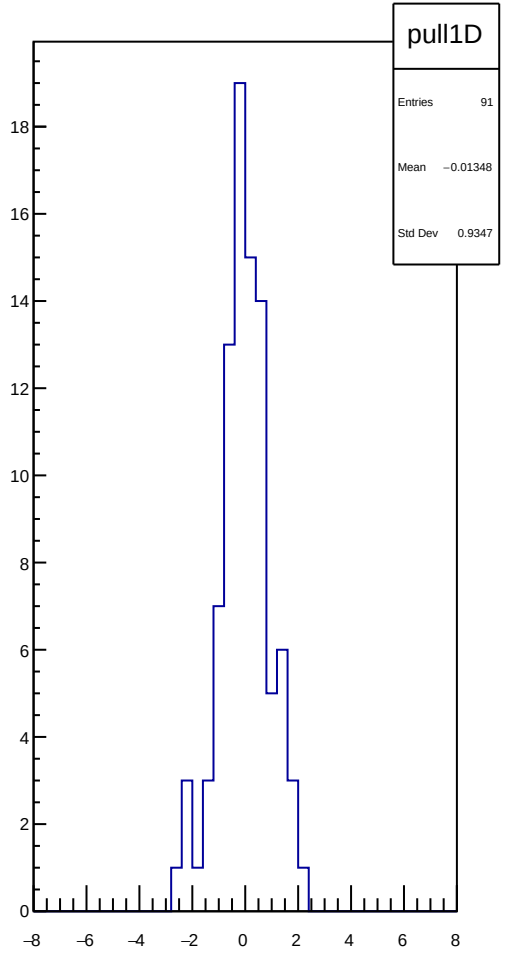

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
5
4
3
2
1
χ² / ndf 7.598e+05 / 90
p0 4.927e−10 ± 4.939e−13

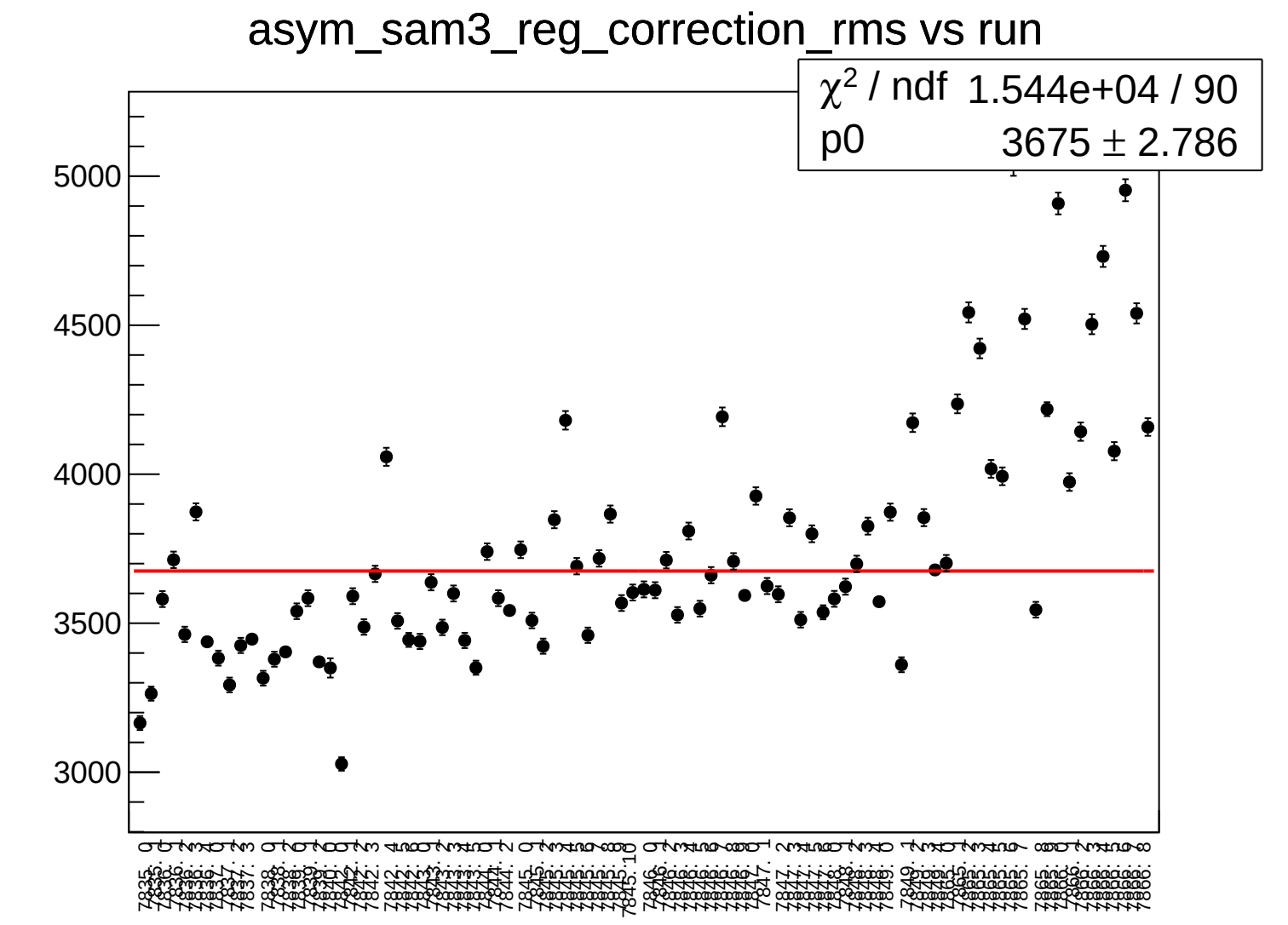

reg_asym_sam3_mean vs run
χ² / ndf 81.11 / 90
p0 443 ± 502.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 118.3
Std Dev 0
2
1
0
−1
−2

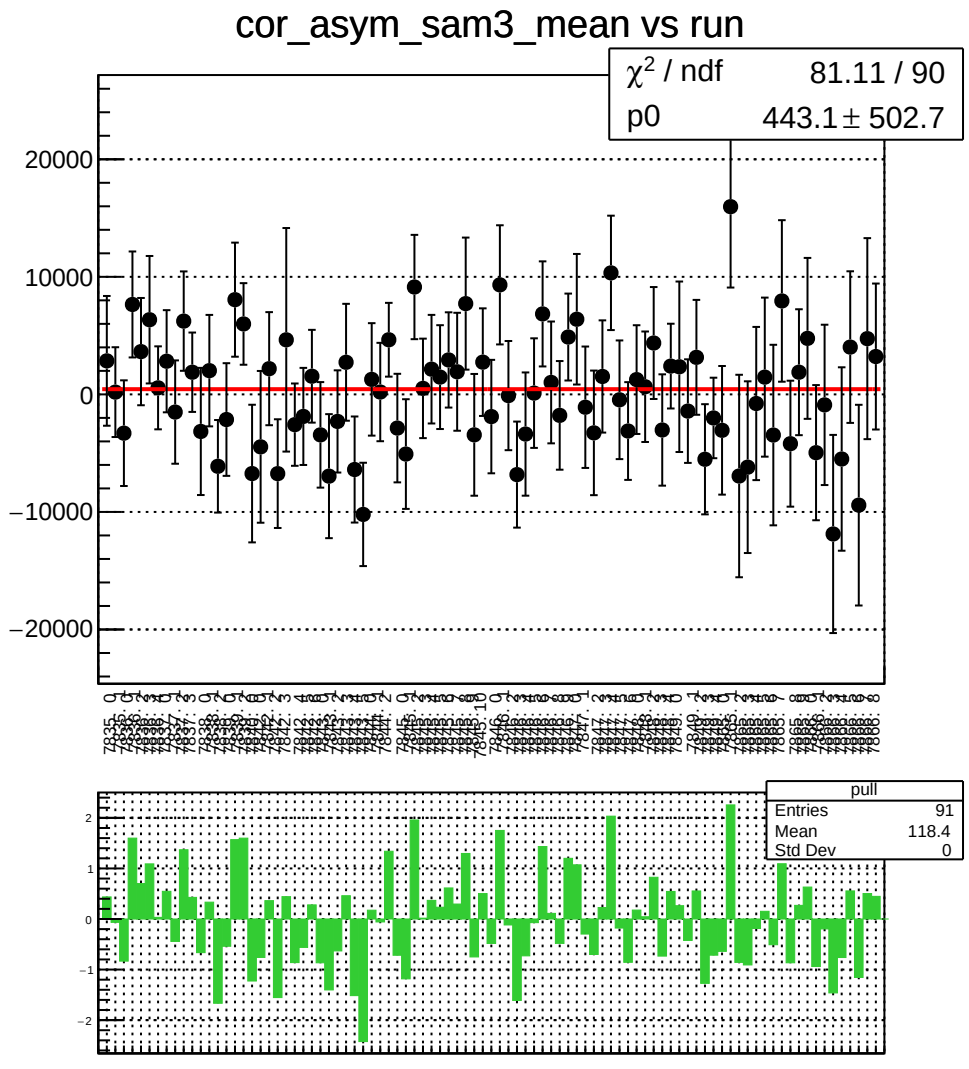

pull1D
Entries 91
Mean −0.01858
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

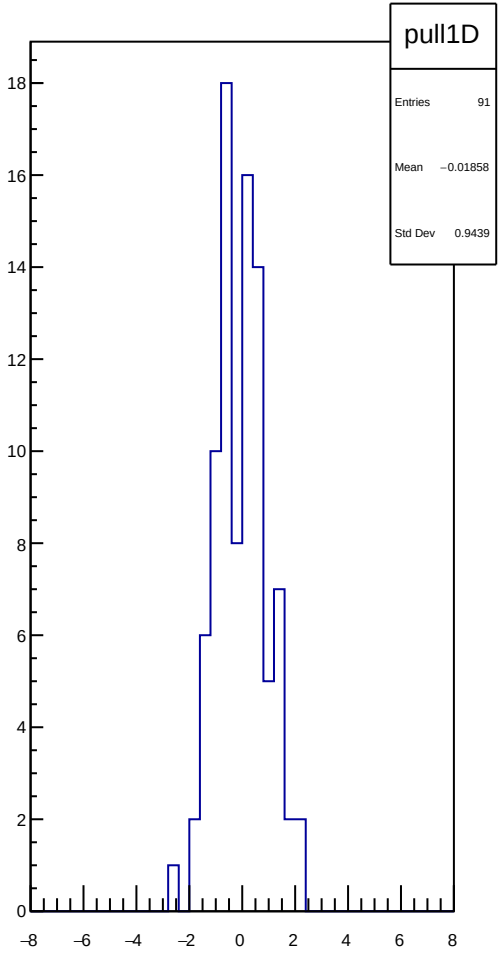

reg_asym_sam3_rms vs run
χ² / ndf 5.61e+04 / 90
p0 463.4 ± 0.3555
900
800
700
600
500
400
300

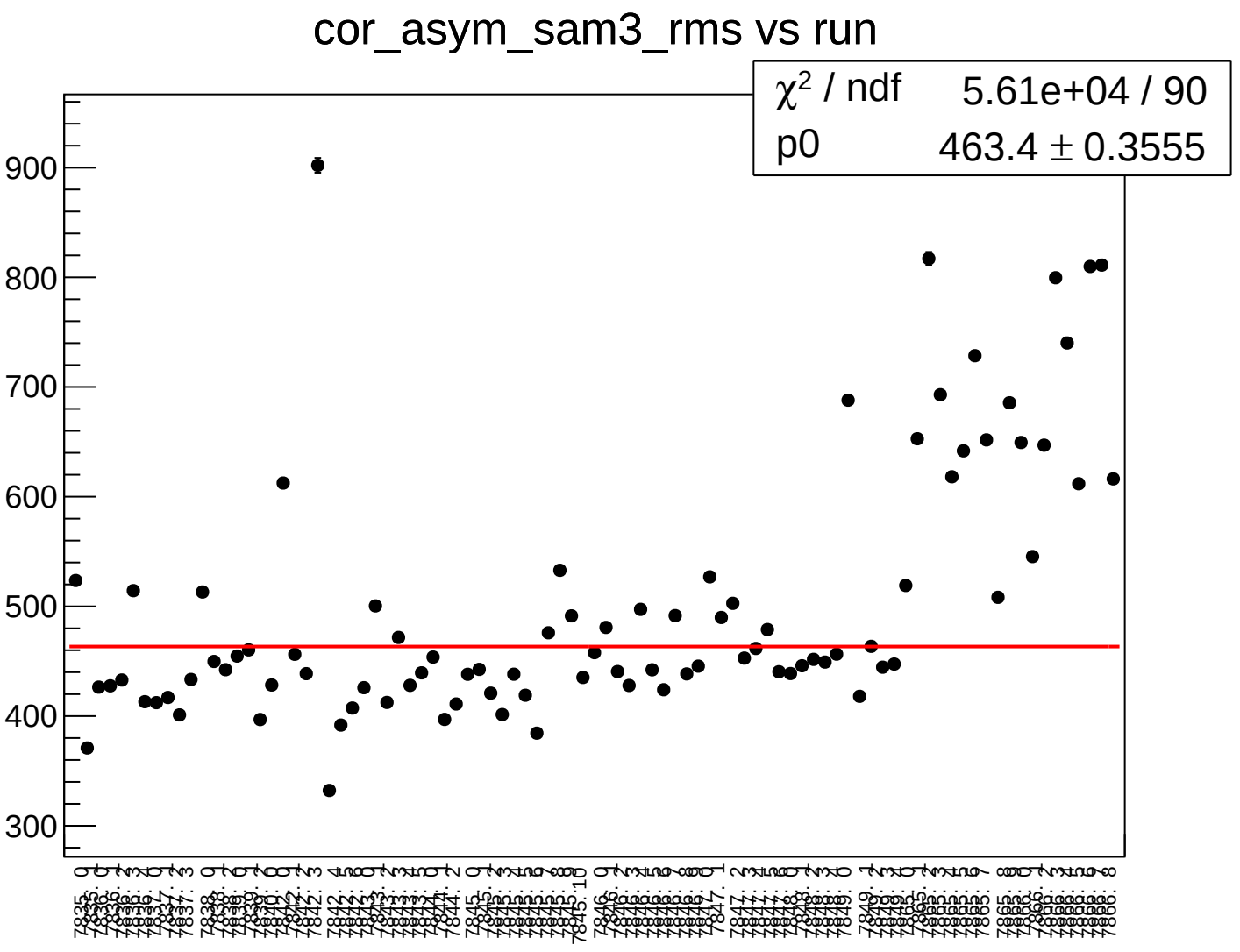

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 79.52 / 90
p0 −467.9 ± 3940
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 128.9
Std Dev 0
2
1
0
−1
−2

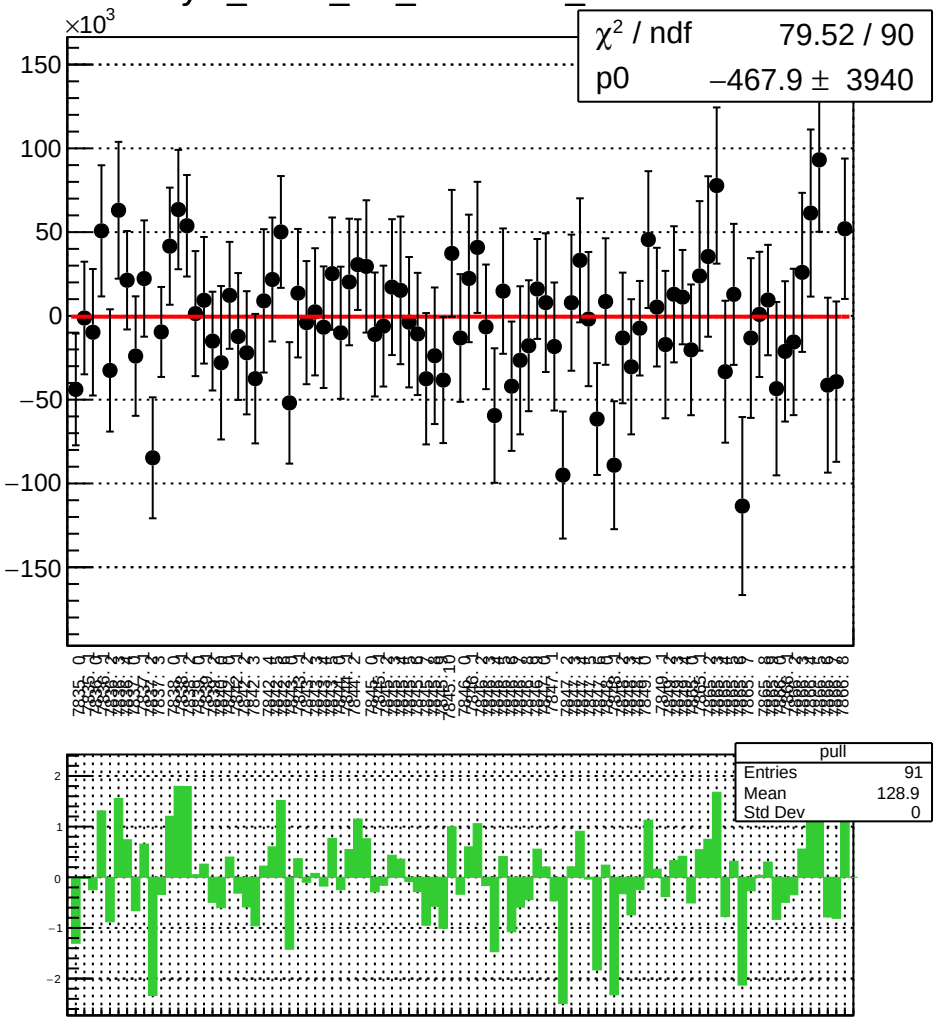

pull1D
Entries 91
Mean −0.01348
Std Dev 0.9347
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

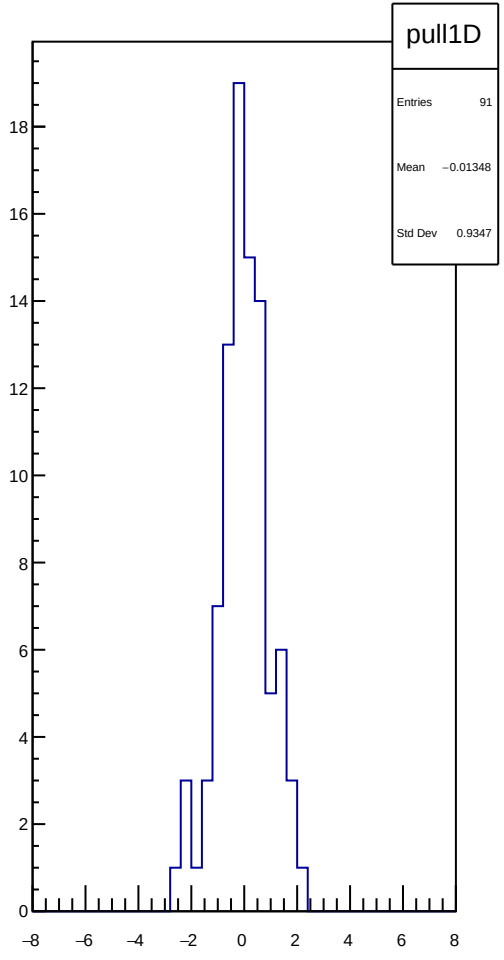

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.544e+04 / 90
p0 3675 ± 2.786
5000
4500
4000
3500
3000

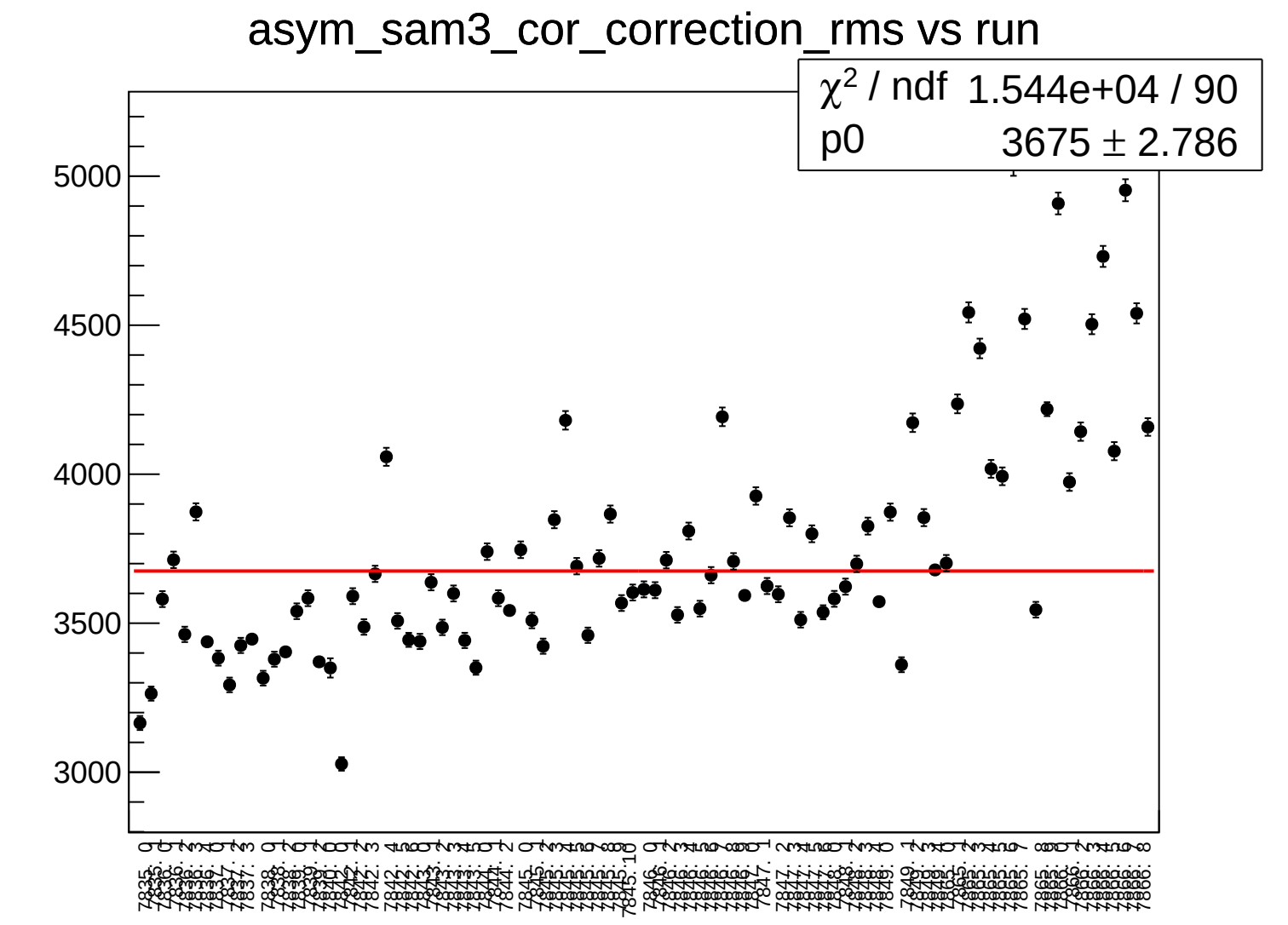

cor_asym_sam3_mean vs run
χ² / ndf 81.11 / 90
p0 443.1 ± 502.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 118.4
Std Dev 0
2
1
0
−1
−2

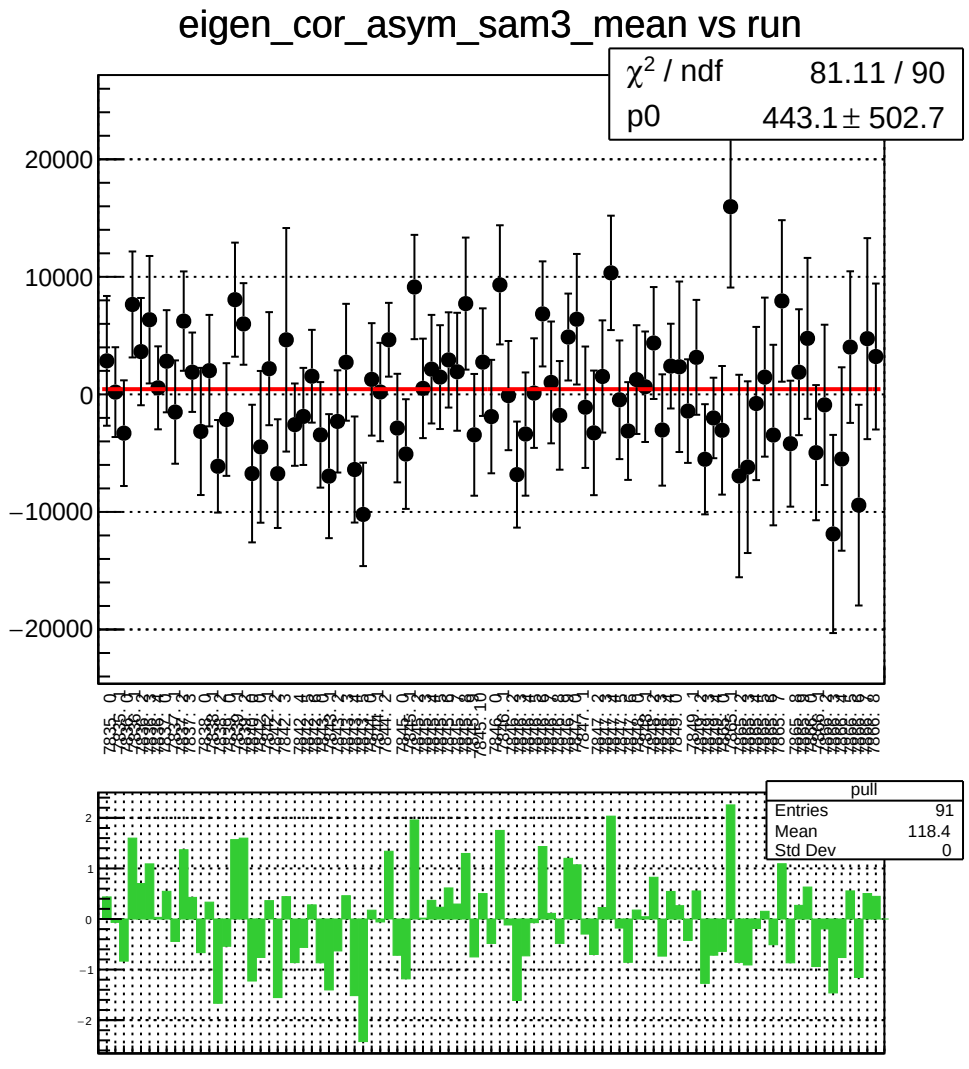

pull1D
Entries 91
Mean −0.01858
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

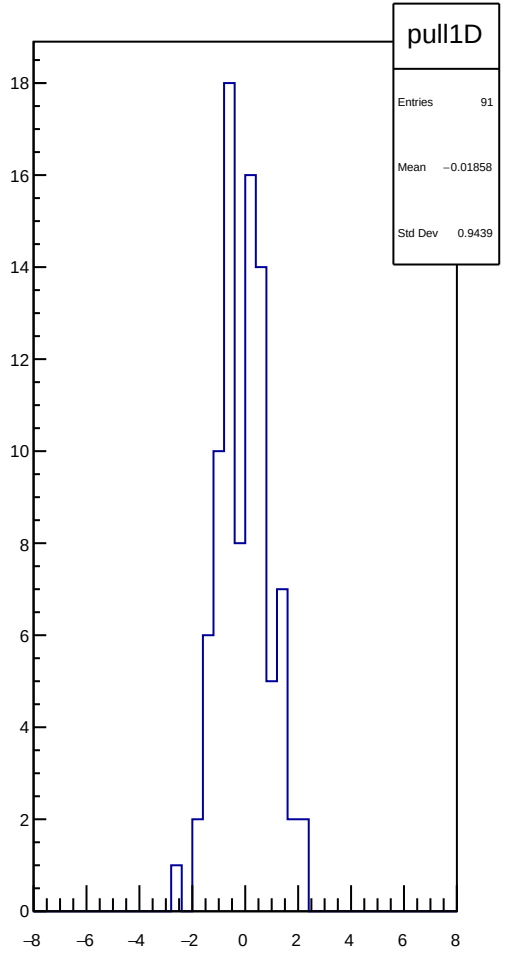

cor_asym_sam3_rms vs run
χ² / ndf 5.61e+04 / 90
p0 463.4 ± 0.3555
900
800
700
600
500
400
300

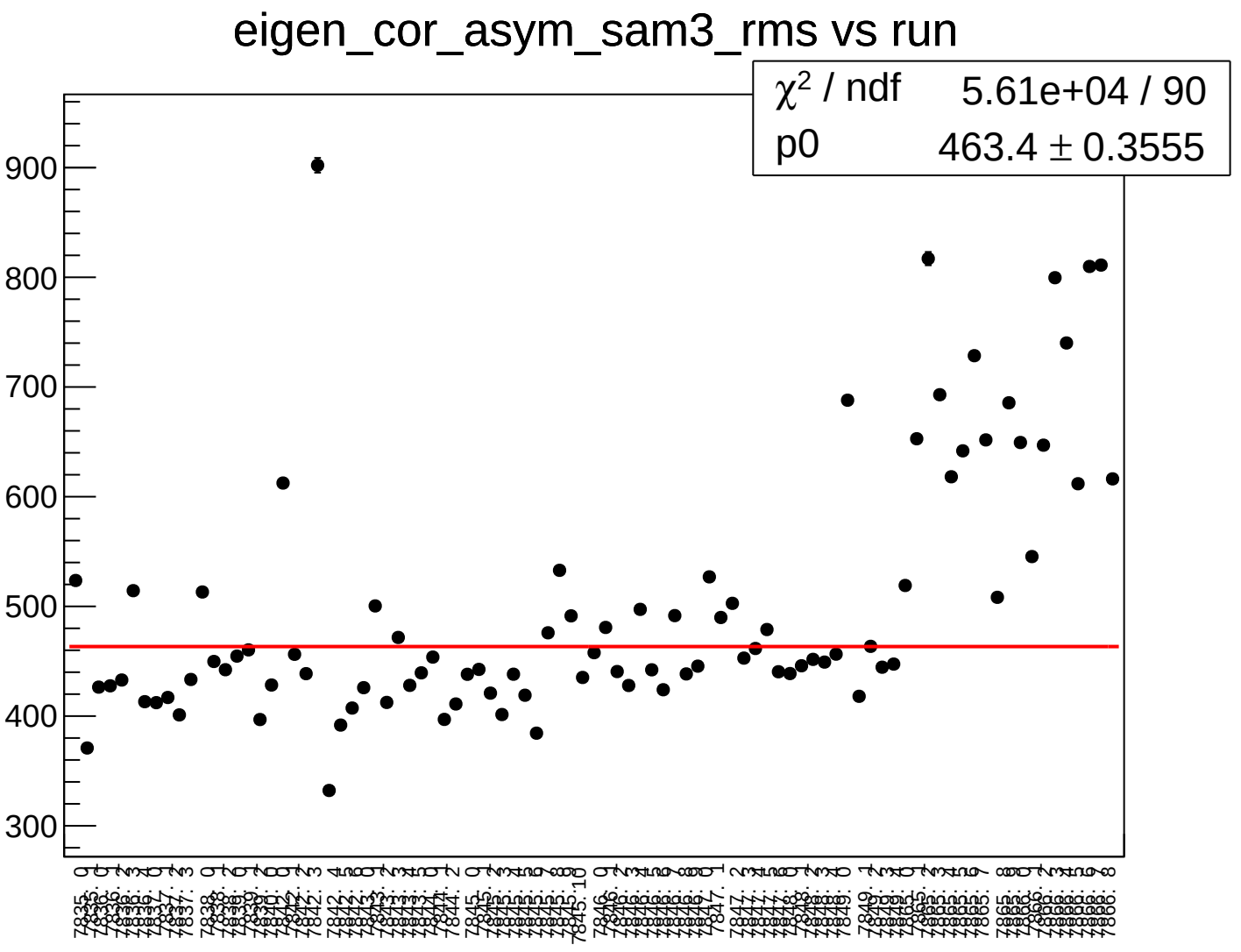

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 79.52 / 90
p0 −467.9 ± 3940
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 128.9
Std Dev 0
2
1
0
−1
−2

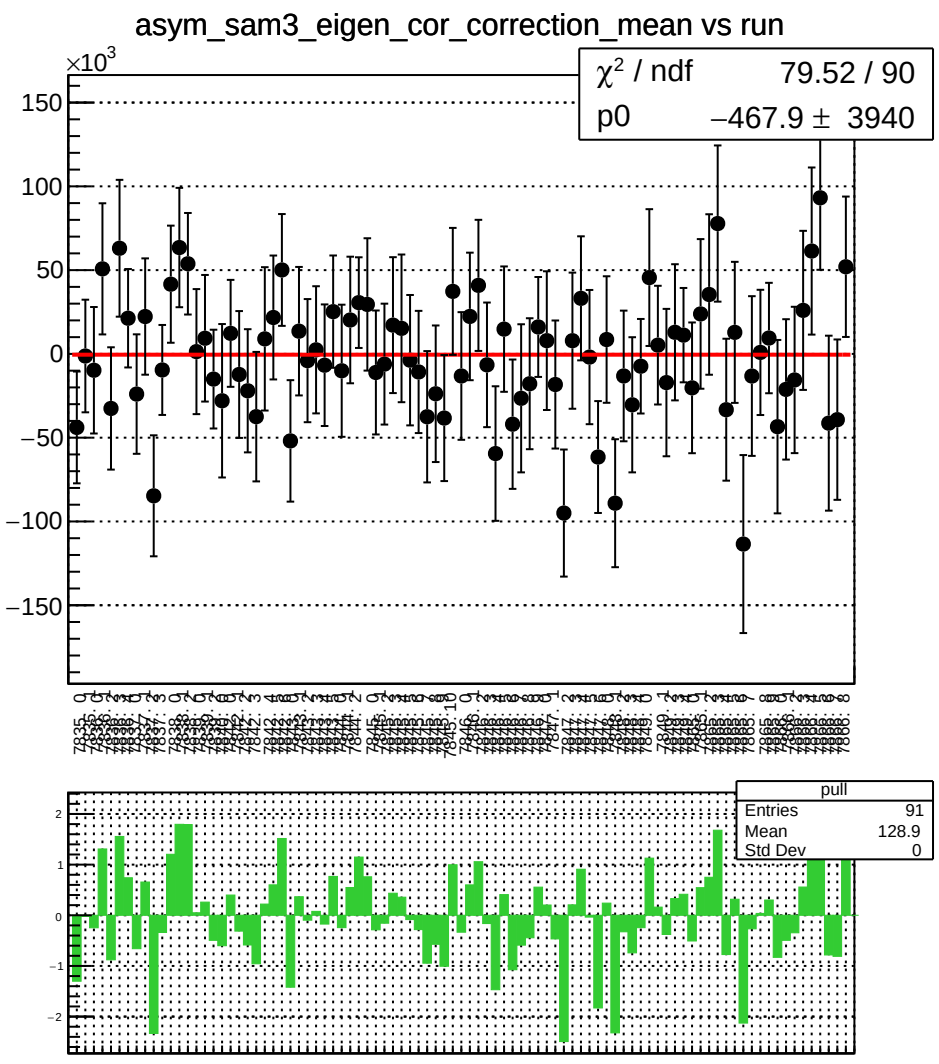

pull1D
Entries 91
Mean −0.01348
Std Dev 0.9347
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

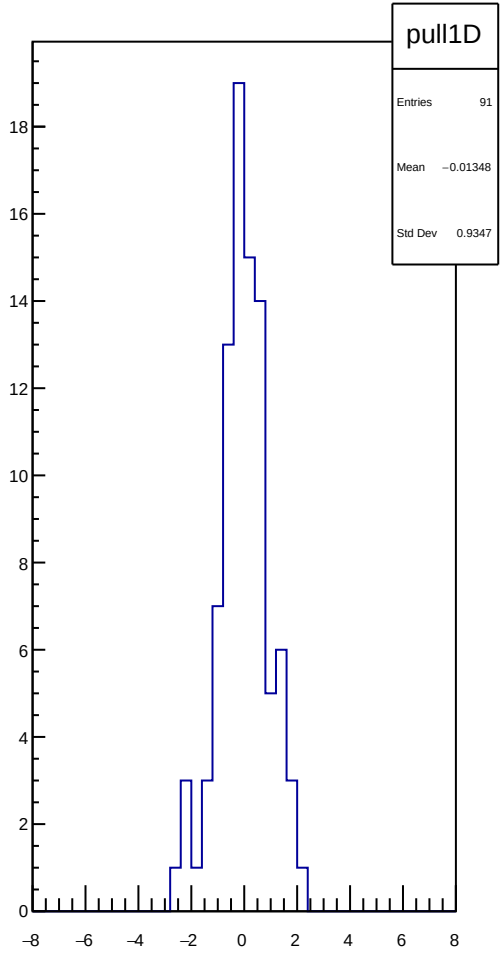

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.544e+04 / 90
p0 3675 ± 2.786
5000
4500
4000
3500
3000

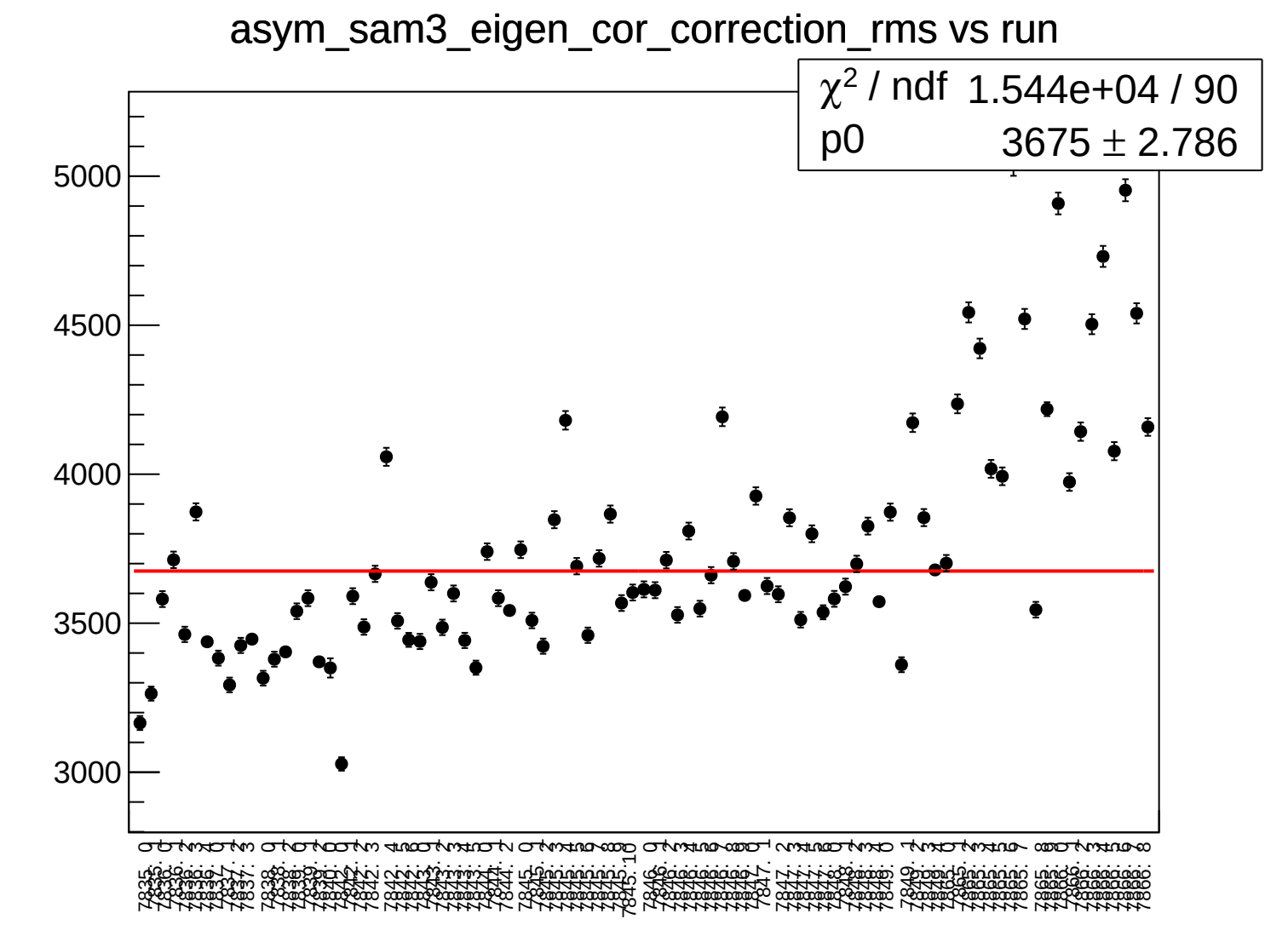

eigen_cor_asym_sam3_mean vs run
χ² / ndf 81.11 / 90
p0 443.1 ± 502.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 118.4
Std Dev 0
2
1
0
−1
−2

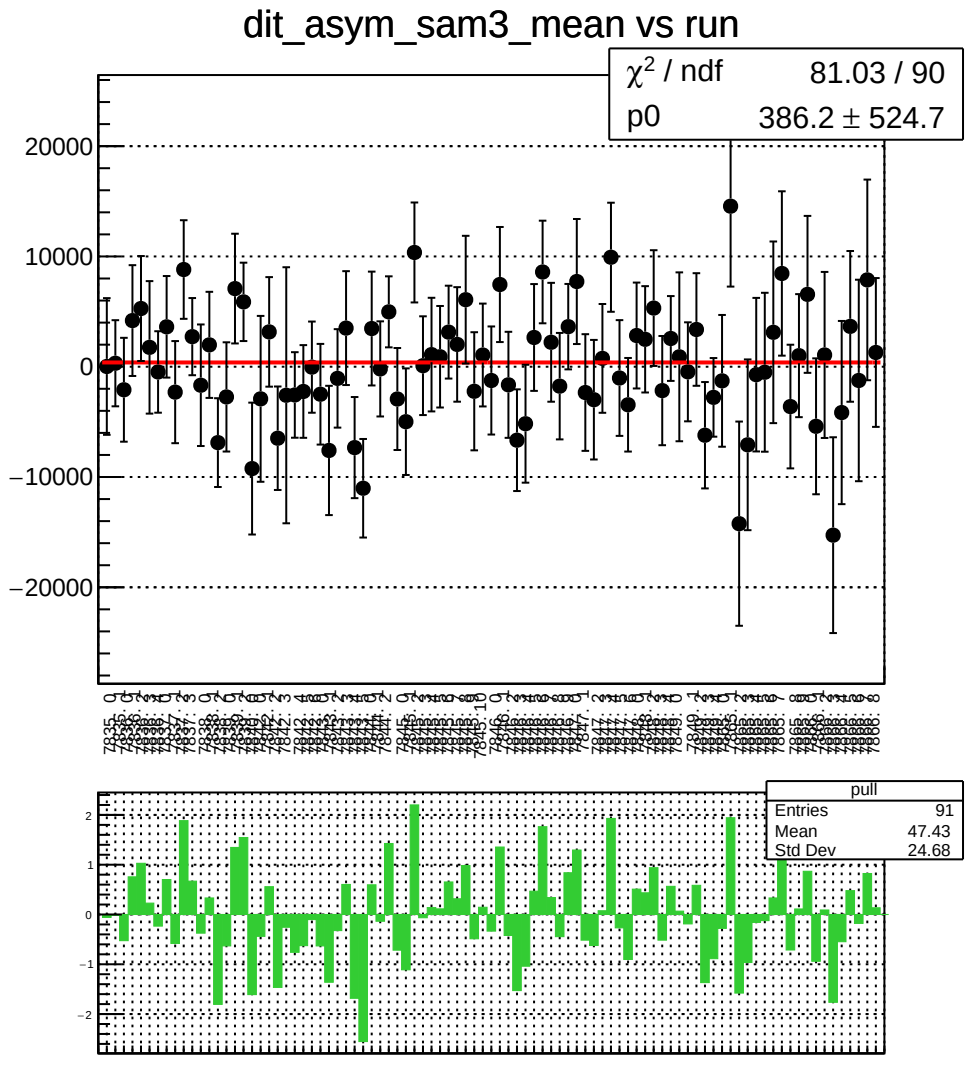

pull1D
Entries 91
Mean −0.01858
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

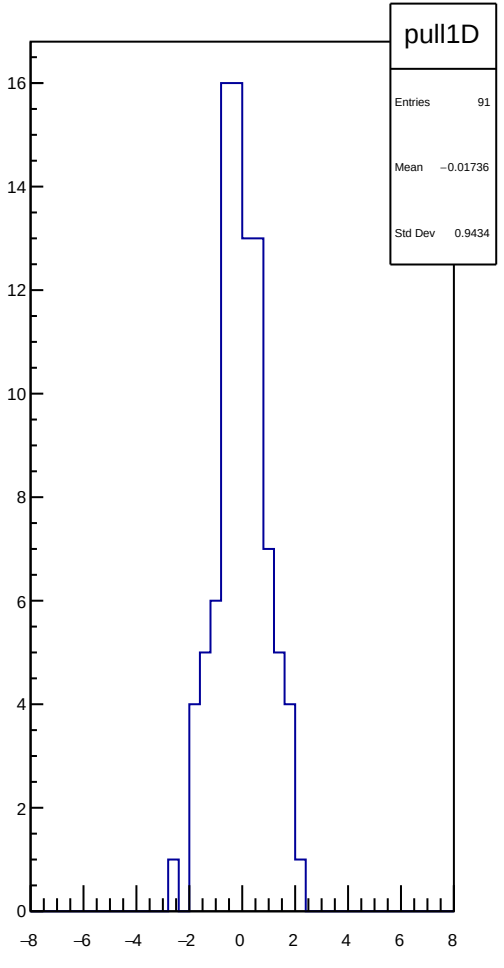

eigen_cor_asym_sam3_rms vs run
χ² / ndf 5.61e+04 / 90
p0 463.4 ± 0.3555
900
800
700
600
500
400
300

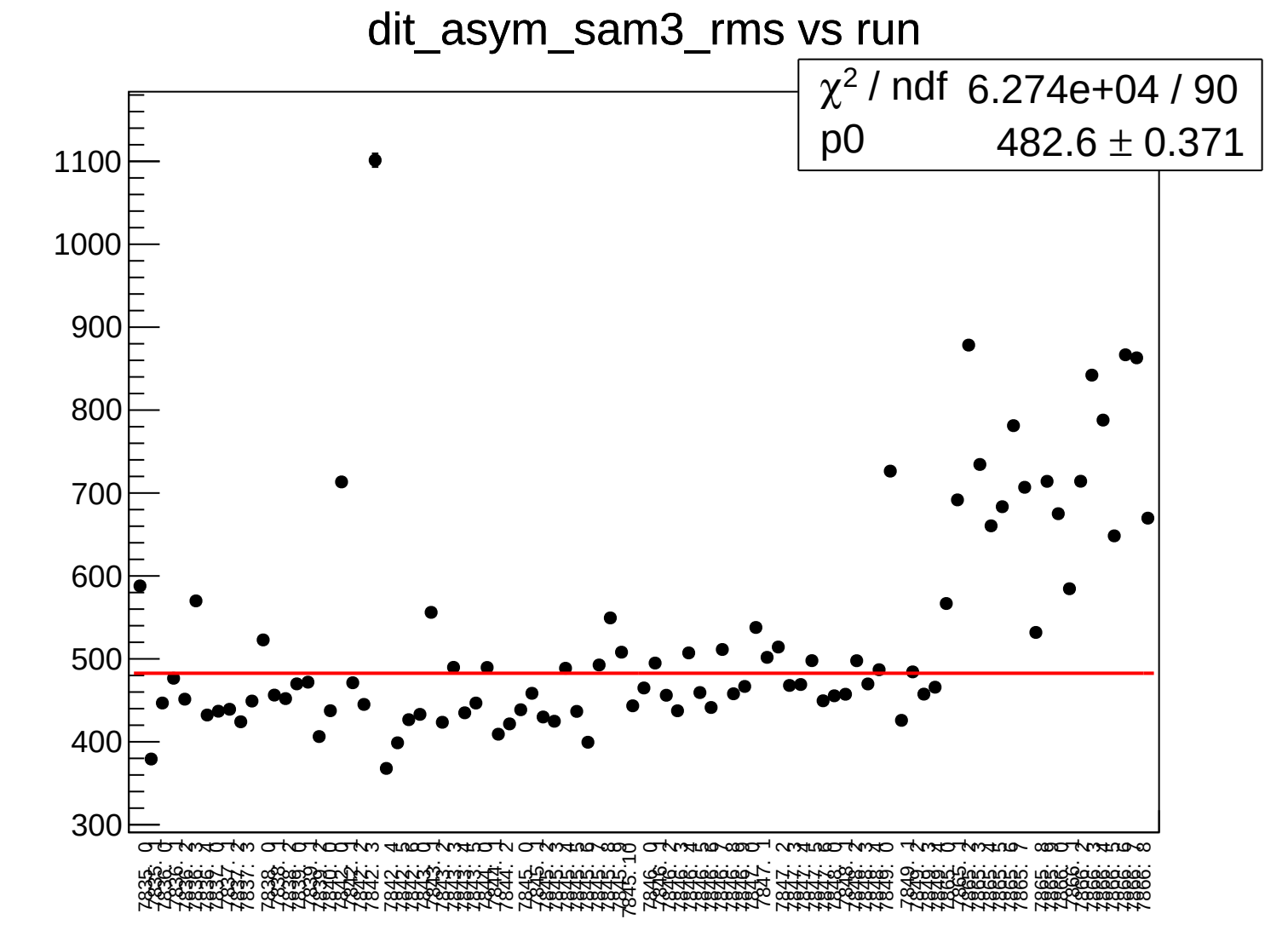

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.52 / 90
p0 −467.9 ± 3940
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 128.9
Std Dev 0
2
1
0
−1
−2

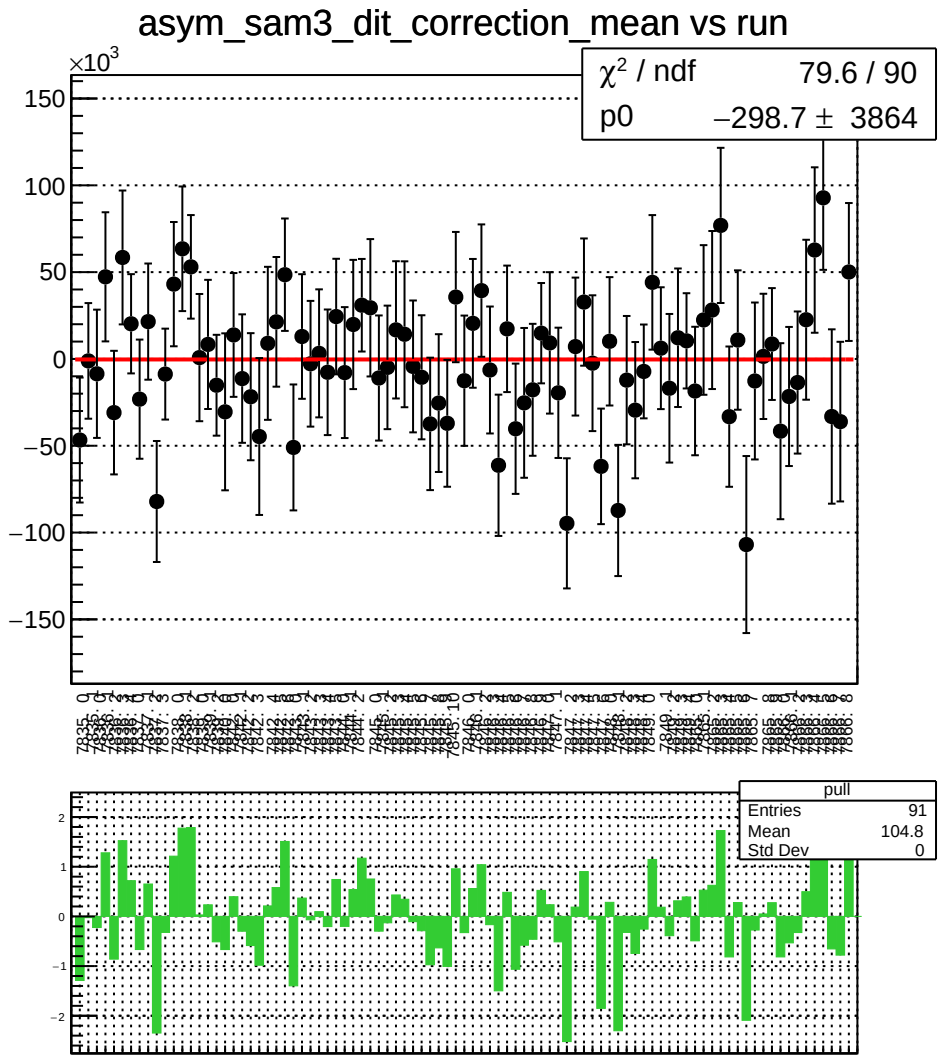

pull1D
Entries 91
Mean −0.01348
Std Dev 0.9347
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

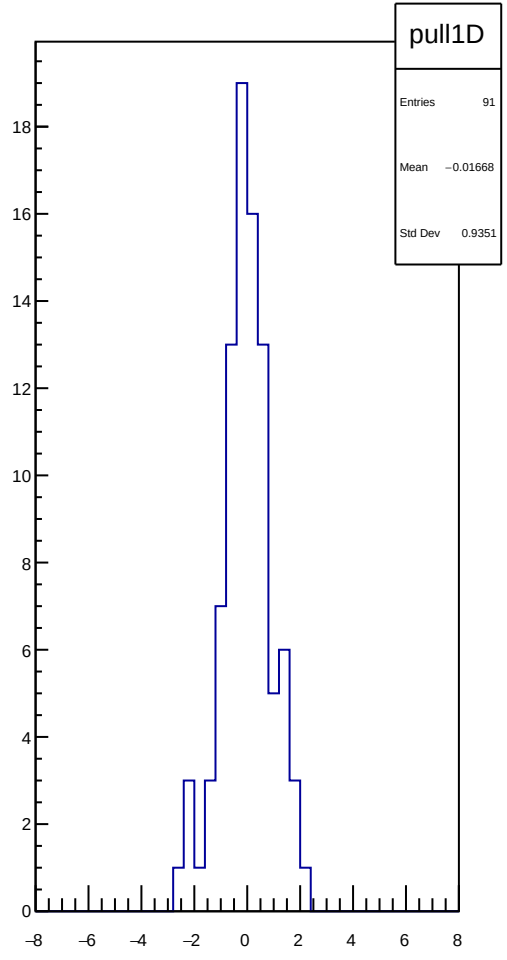

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.544e+04 / 90
p0 3675 ± 2.786
5000
4500
4000
3500
3000


dit_asym_sam3_mean vs run
χ² / ndf 81.03 / 90
p0 386.2 ± 524.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 47.43
Std Dev 24.68
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01736
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam3_rms vs run
χ^2 / ndf 6.274e+04 / 90
p0 482.6 ± 0.371
1100
1000
900
800
700
600
500
400
300


asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 79.6 / 90
p0 −298.7 ± 3864
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 104.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01668
Std Dev 0.9351
18
16
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10
8
6
4
2
0
−8
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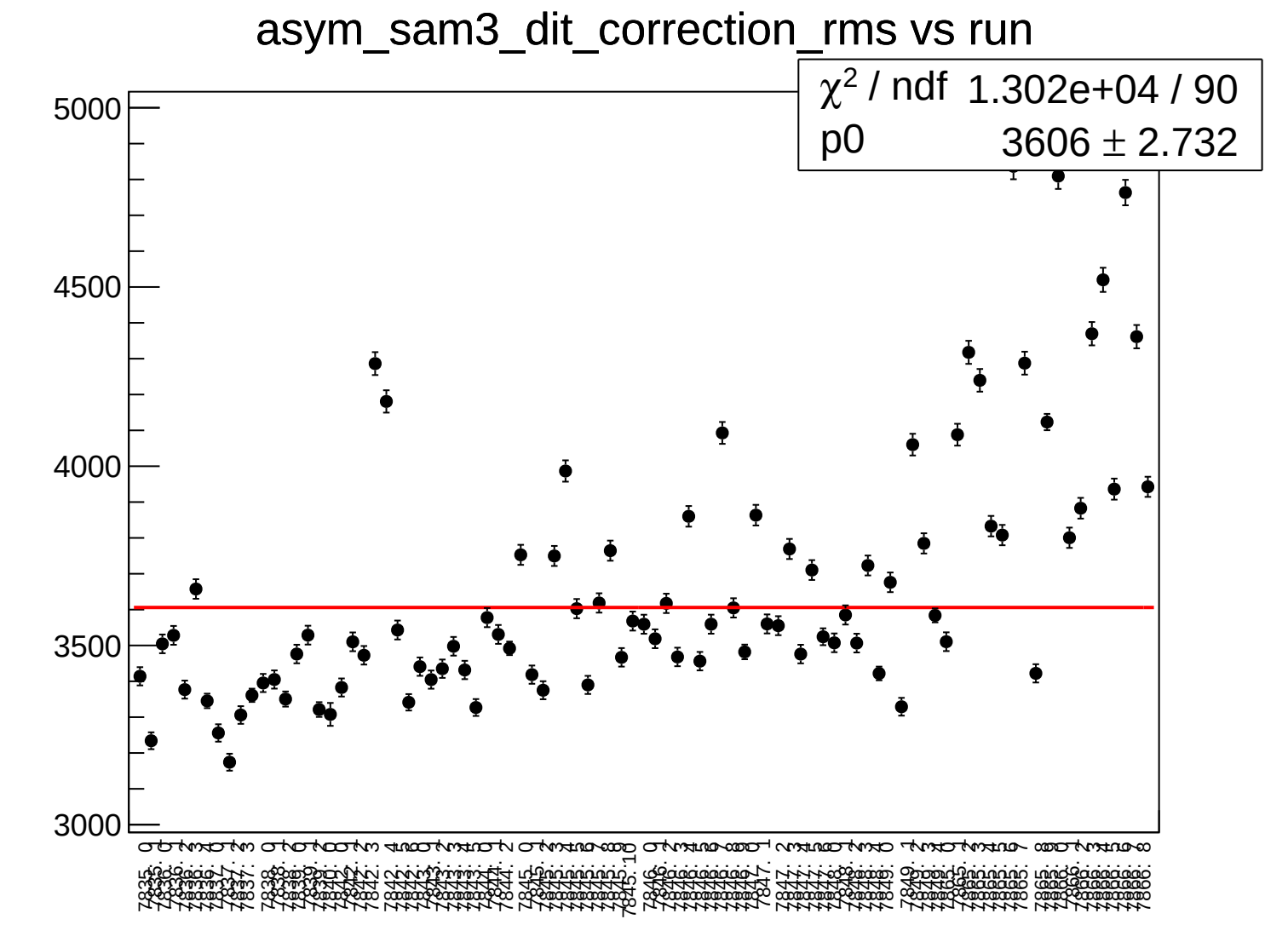
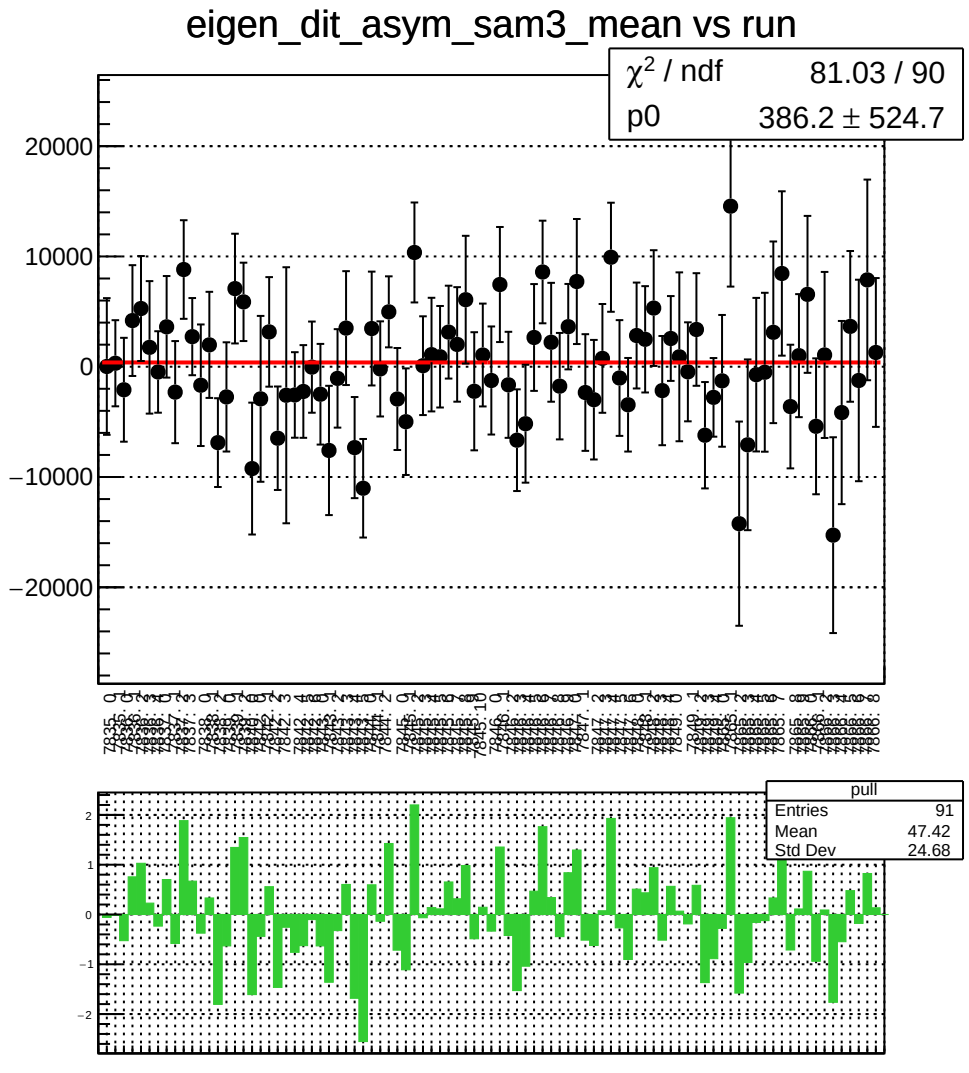
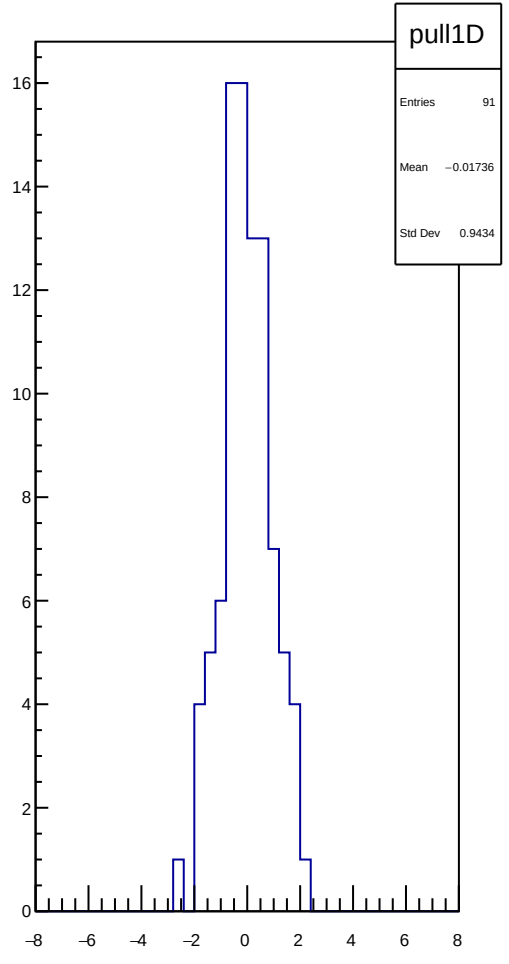
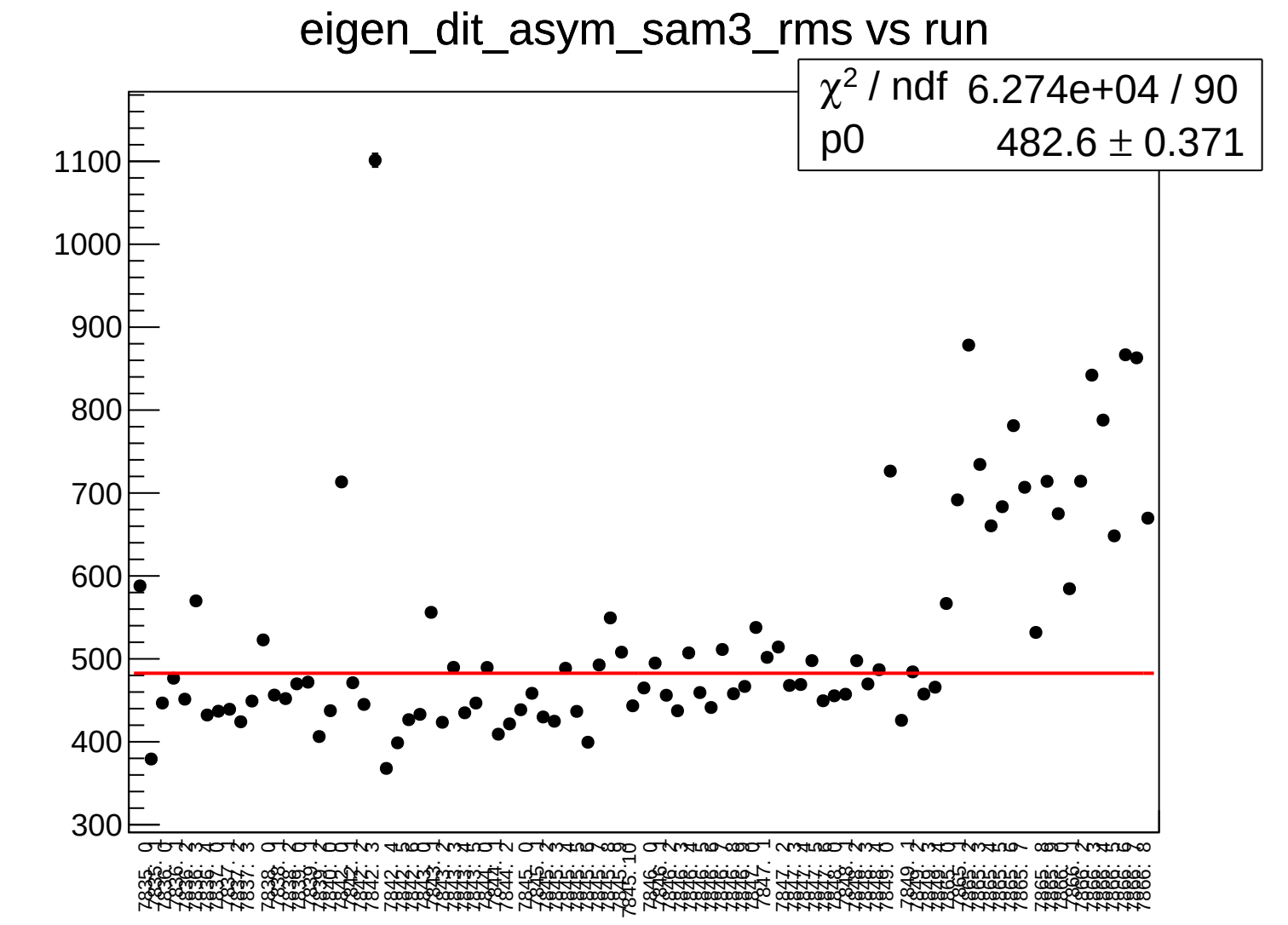
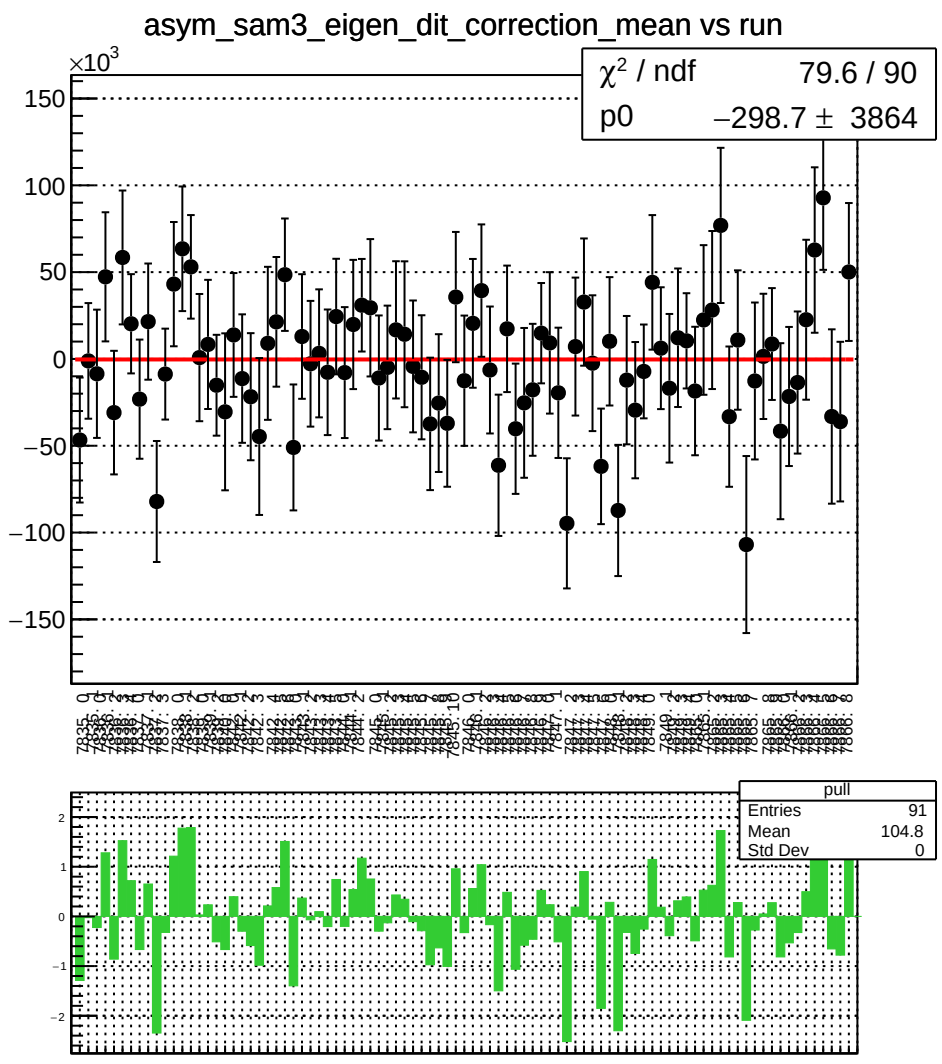
2
4
6
8

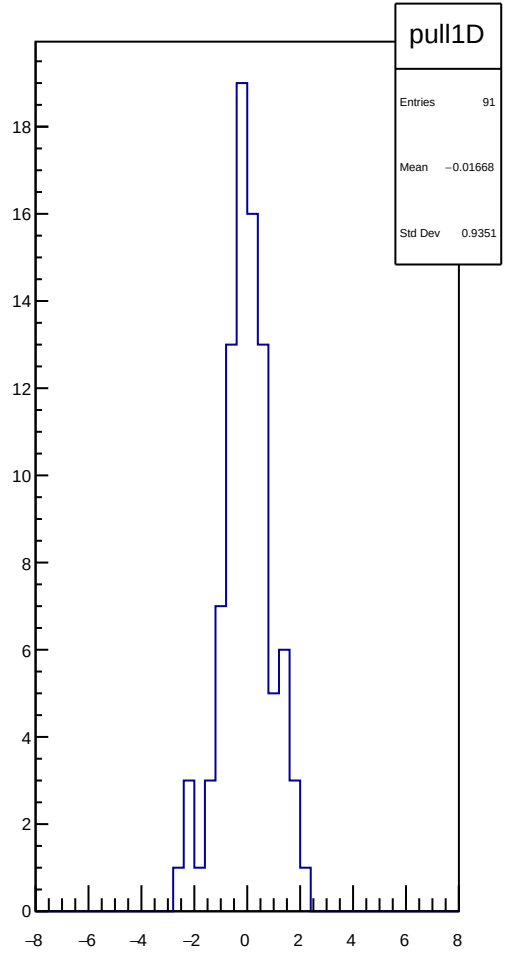

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.302e+04 / 90
p0 3606 ± 2.732
5000
4500
4000
3500
3000

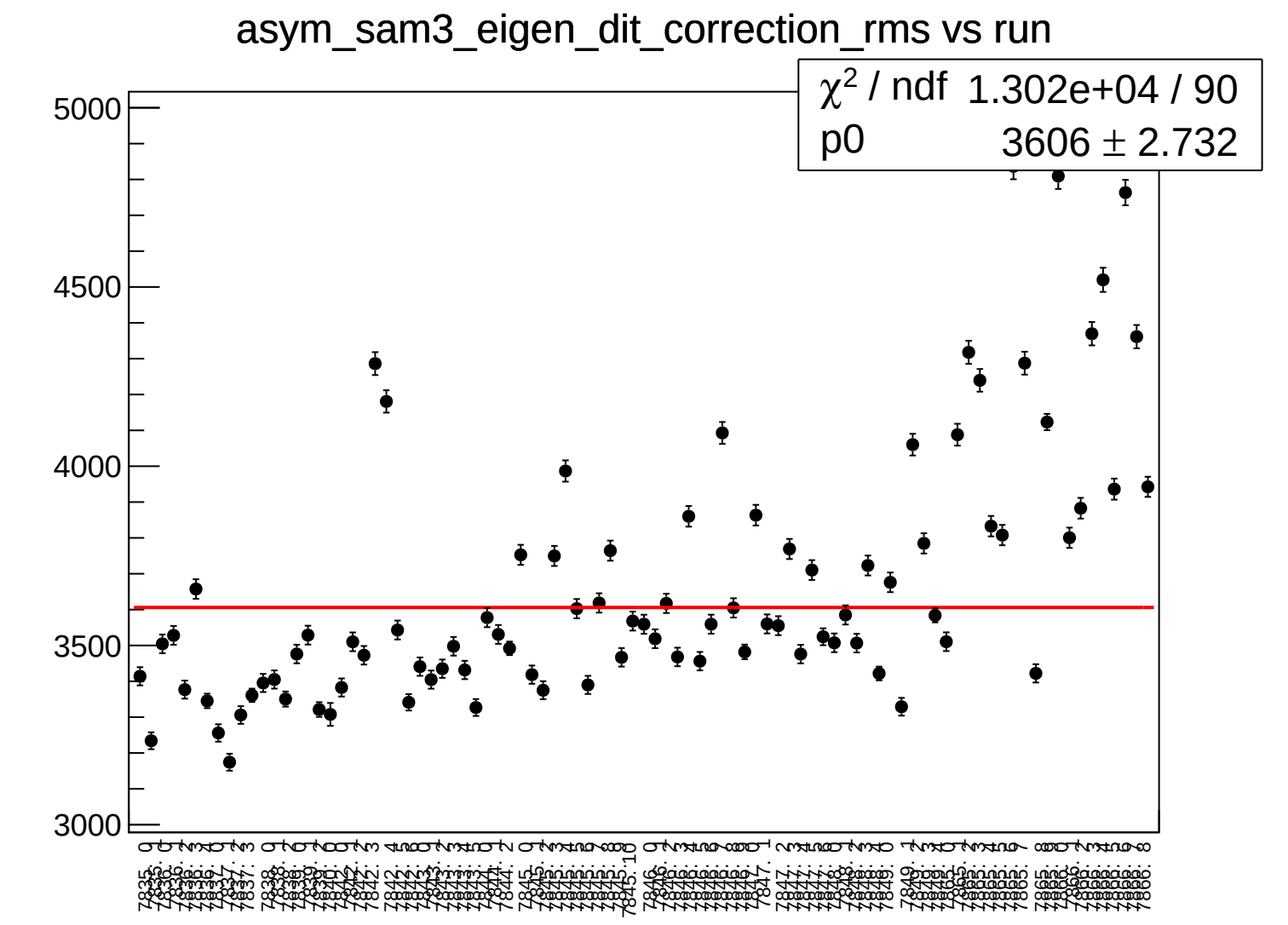

eigen_dit_asym_sam3_mean vs run
χ² / ndf 81.03 / 90
p0 386.2 ± 524.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 47.42
Std Dev 24.68
2
1
0
−1
−2

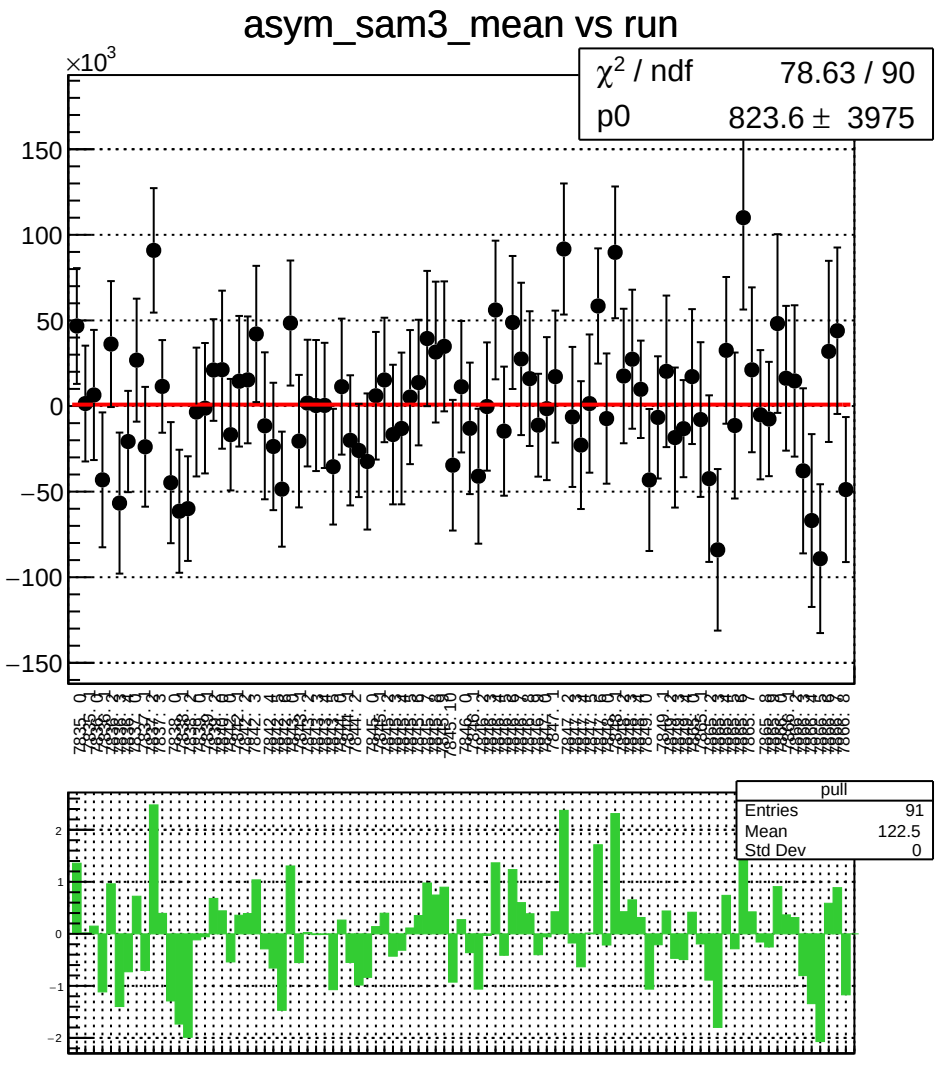

pull1D
Entries 91
Mean −0.01736
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

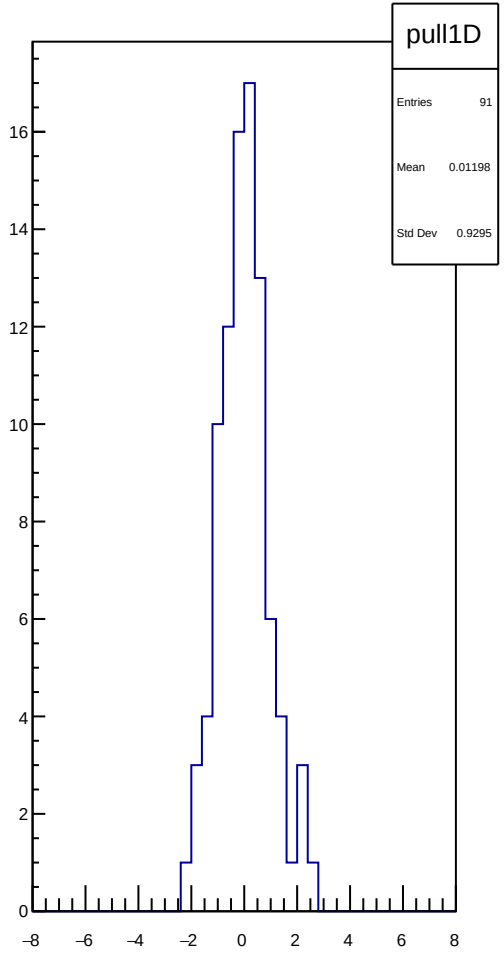

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 6.274e+04 / 90
p0 482.6 ± 0.371
1100
1000
900
800
700
600
500
400
300

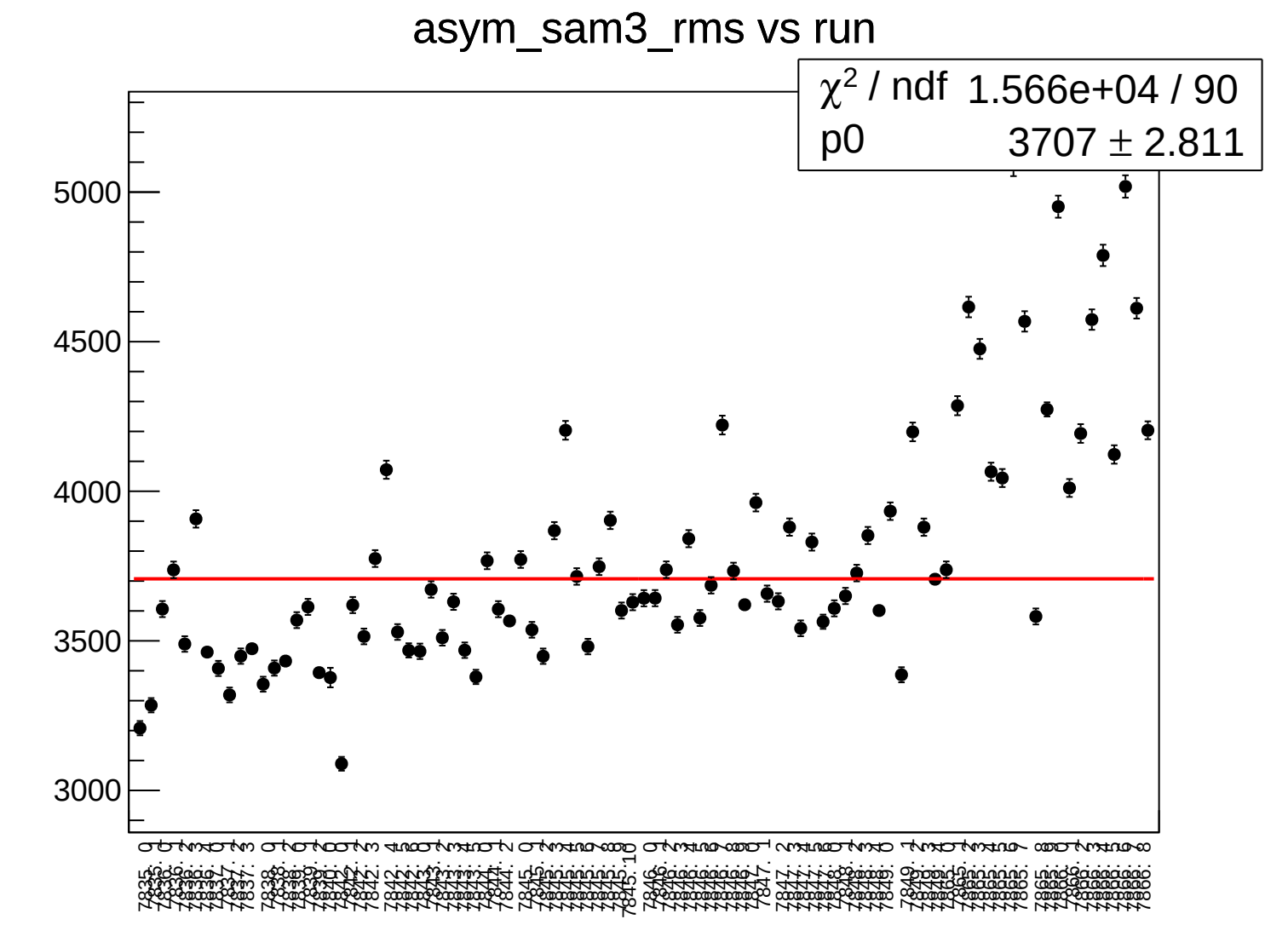

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.6 / 90
p0 −298.7 ± 3864
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 104.8
Std Dev 0
2
1
0
−1
−2

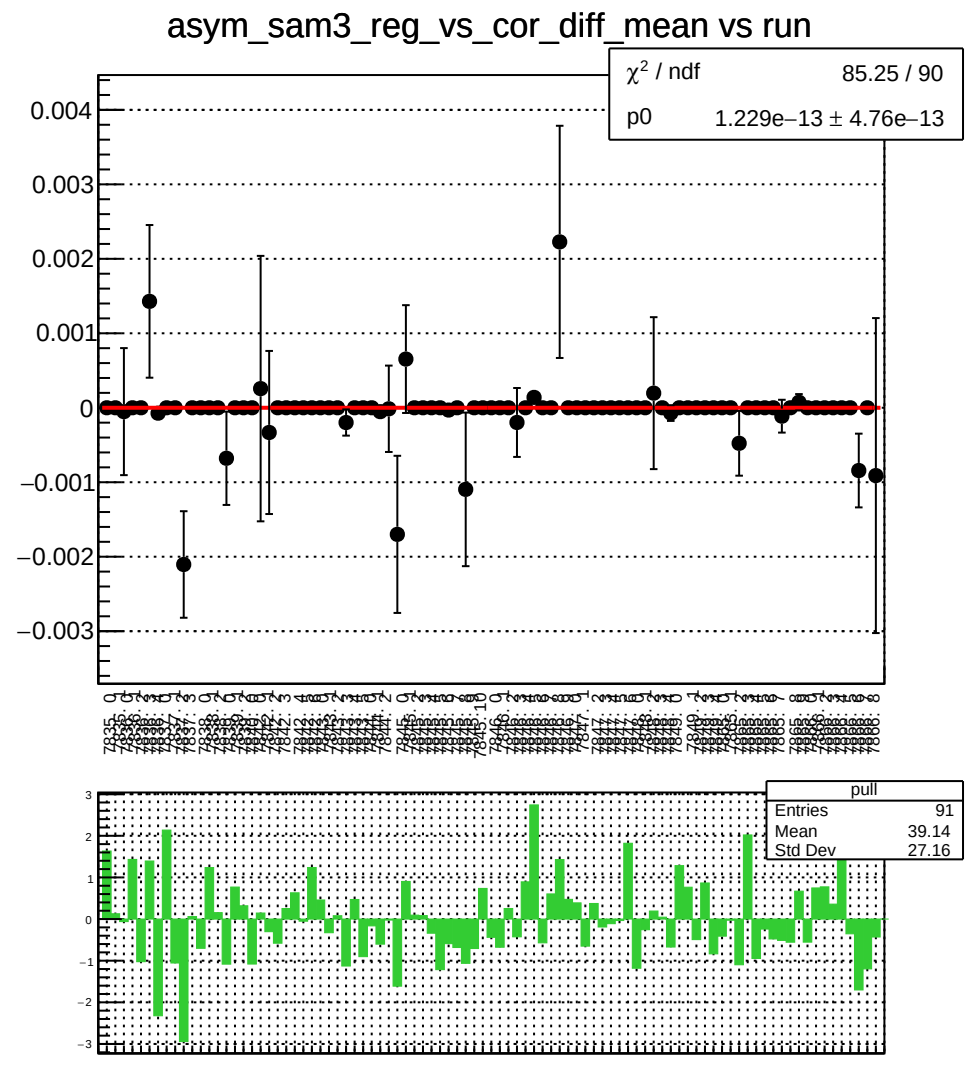

pull1D
Entries 91
Mean −0.01668
Std Dev 0.9351
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

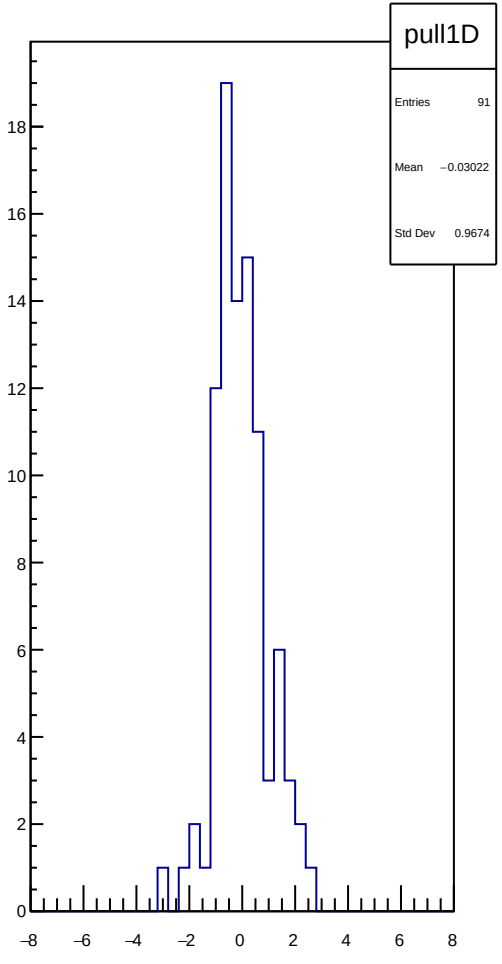

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.302e+04 / 90
p0 3606 ± 2.732
5000
4500
4000
3500
3000

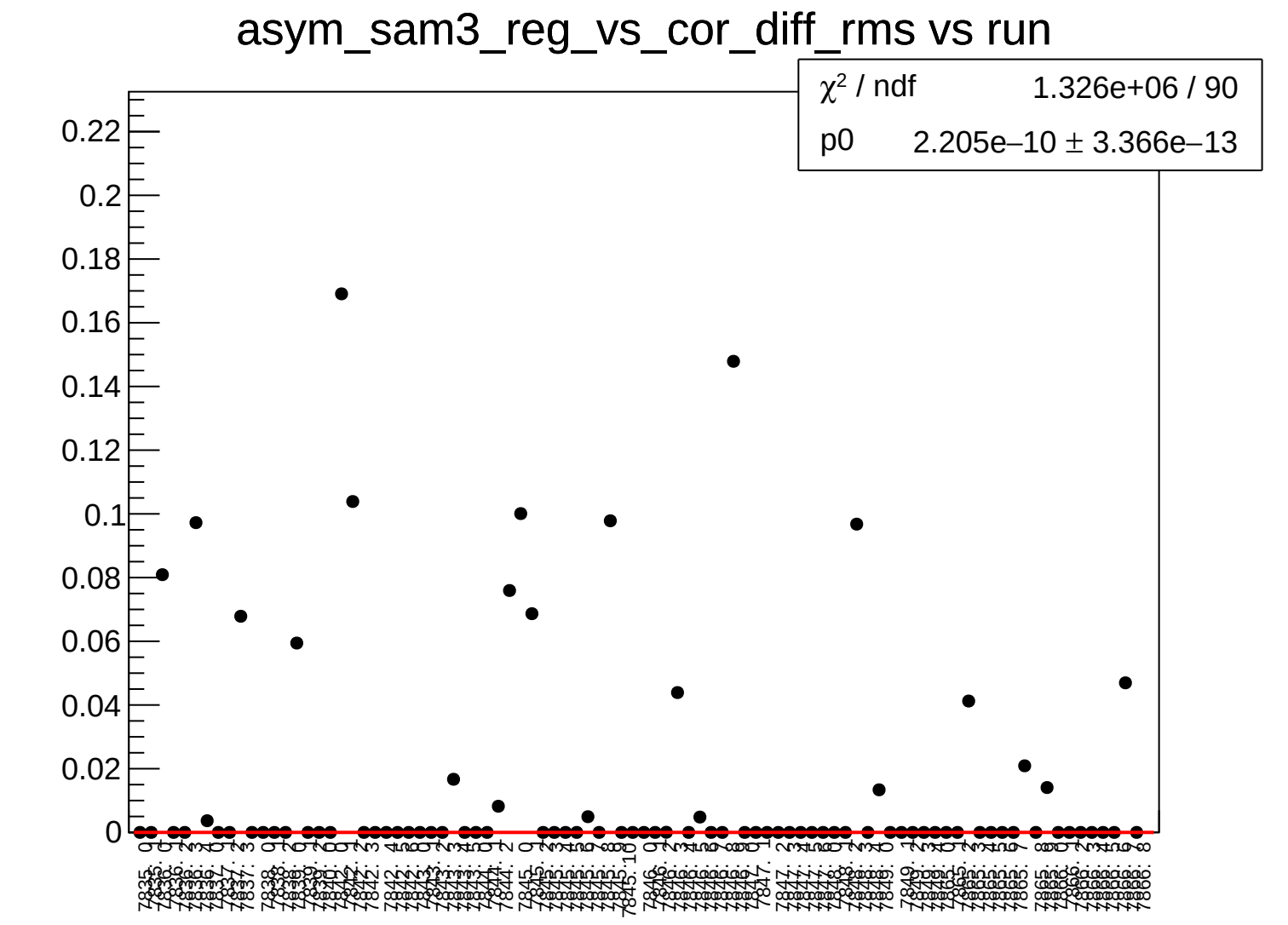

asym_sam3_mean vs run
×10^3
χ^2 / ndf 78.63 / 90
p0 823.6 ± 3975
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 122.5
Std Dev 0
2
1
0
−1
−2

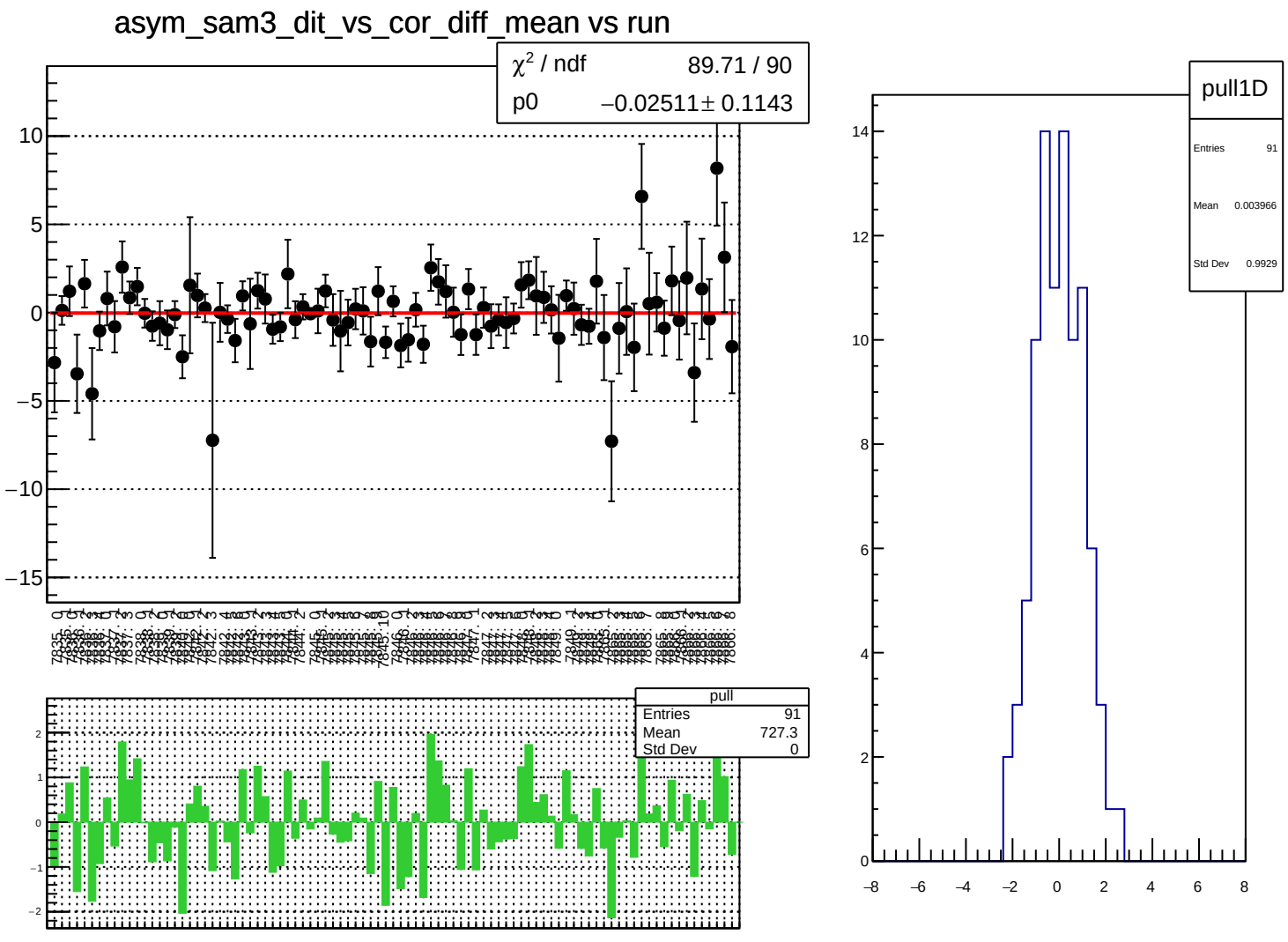

pull1D
Entries 91
Mean 0.01198
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

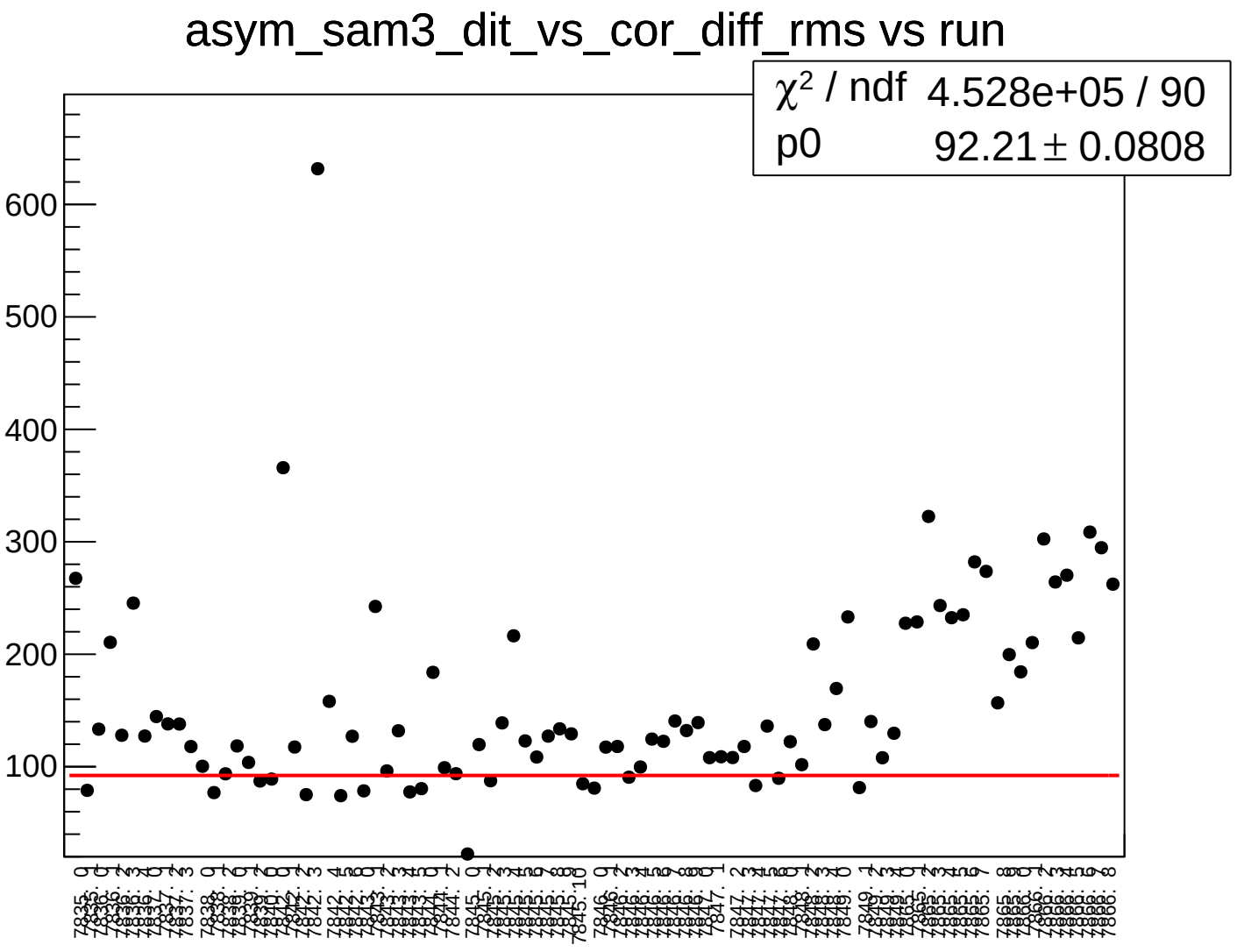

asym_sam3_rms vs run
χ² / ndf 1.566e+04 / 90
p0 3707 ± 2.811
5000
4500
4000
3500
3000

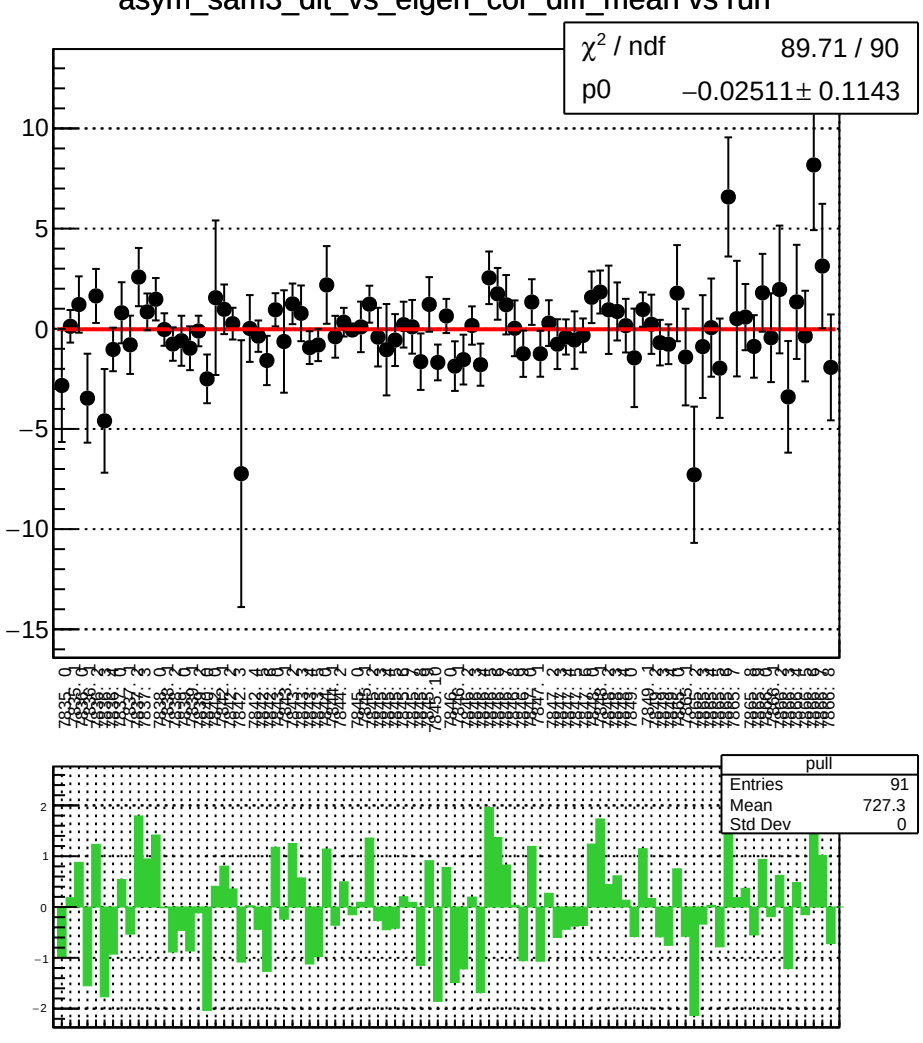

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 85.25 / 90
p0 1.229e−13 ± 4.76e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 91
Mean 39.14
Std Dev 27.16
3
2
1
0
−1
−2
−3

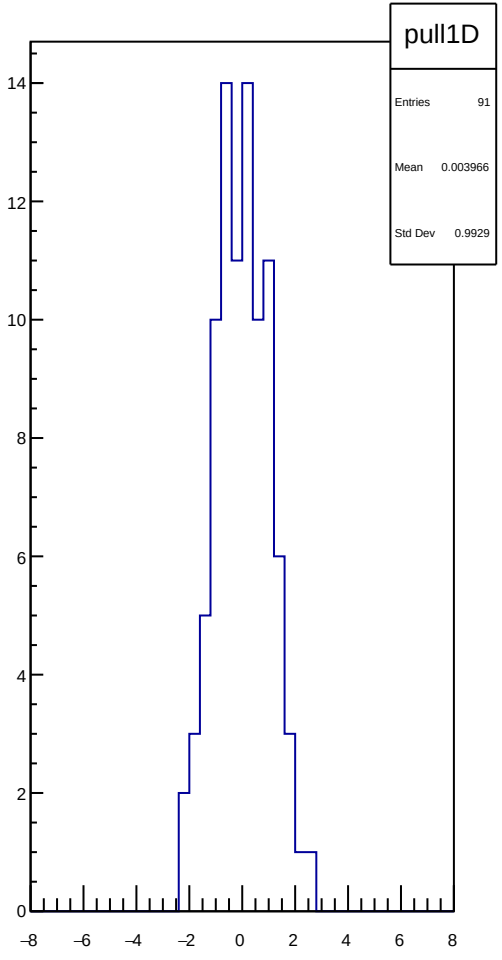

pull1D
Entries 91
Mean −0.03022
Std Dev 0.9674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

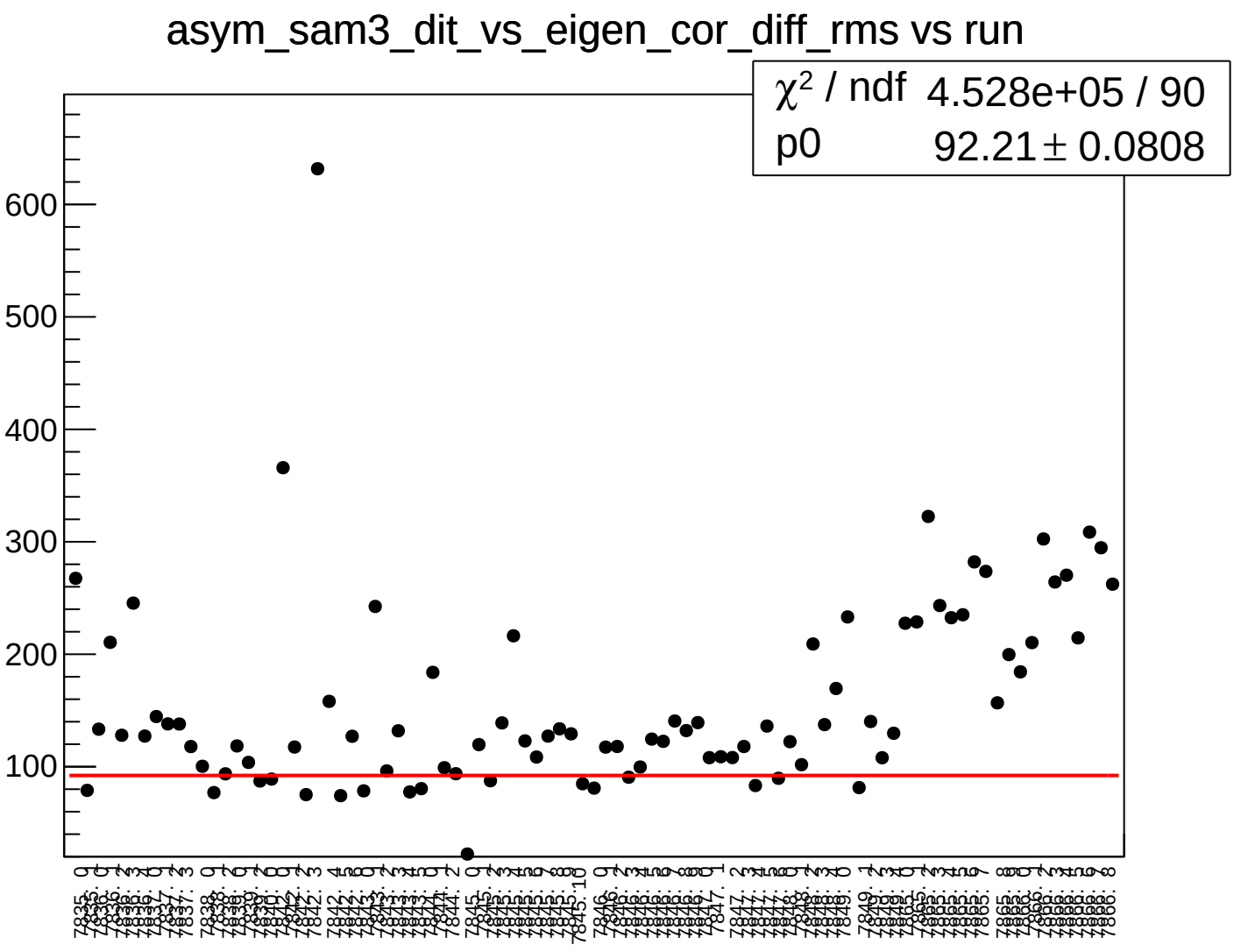

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.326e+06 / 90
p0 2.205e−10 ± 3.366e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

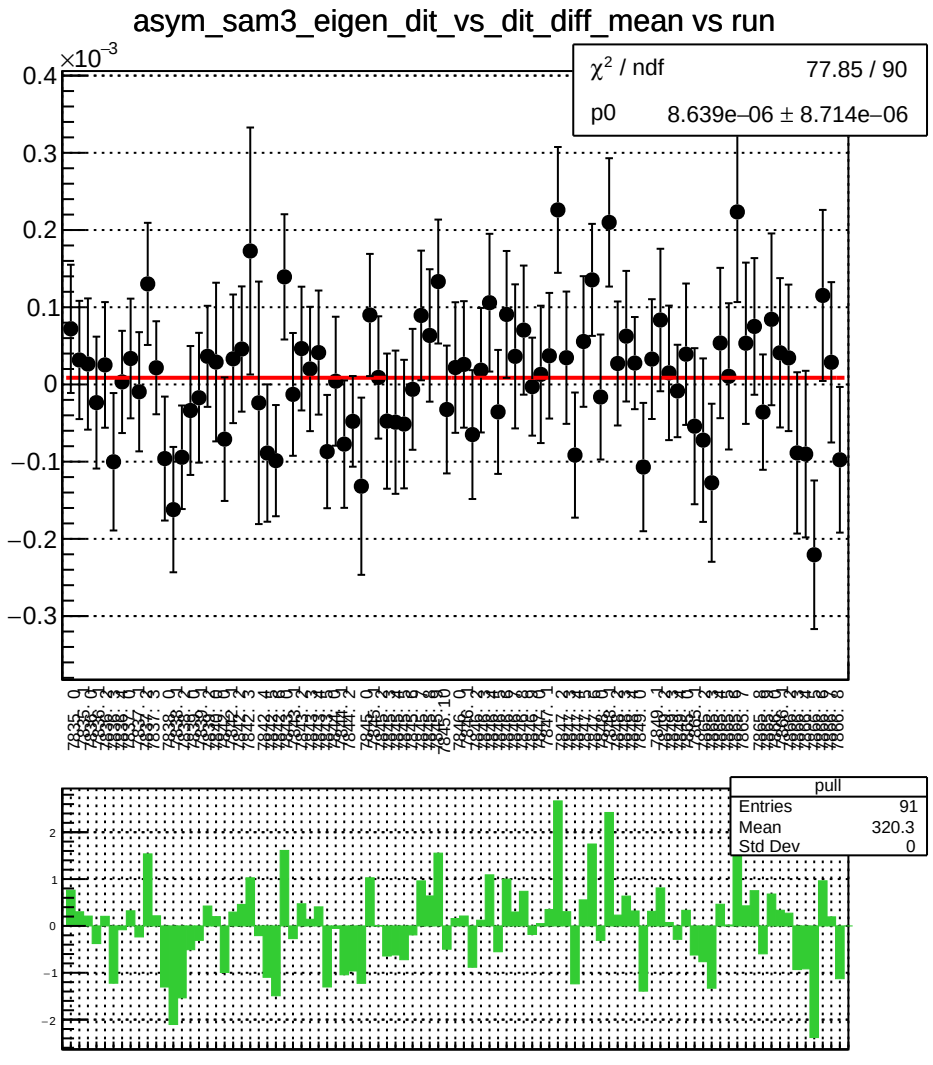

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 89.71 / 90
p0 −0.02511 ± 0.1143
pull
Entries 91
Mean 727.3
Std Dev 0
pull1D
Entries 91
Mean 0.003966
Std Dev 0.9929

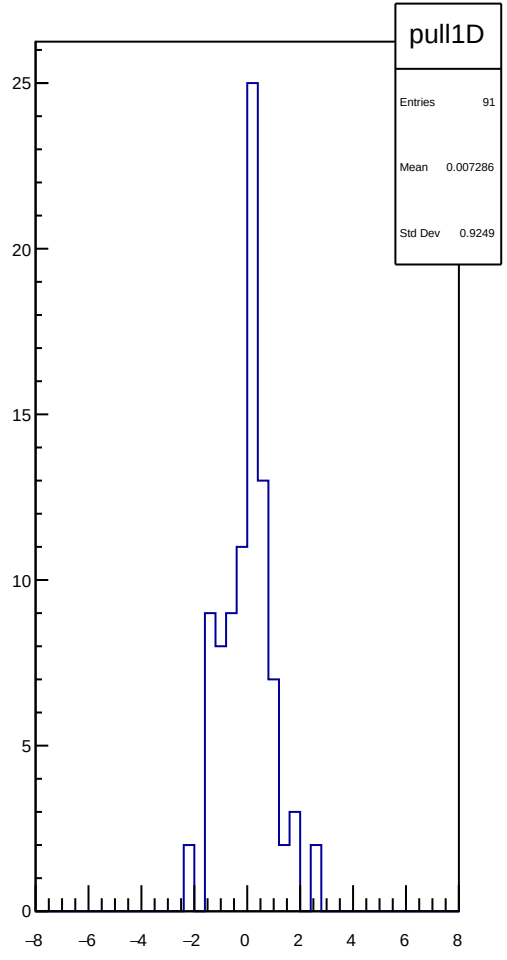

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 4.528e+05 / 90
p0 92.21 ± 0.0808
600
500
400
300
200
100

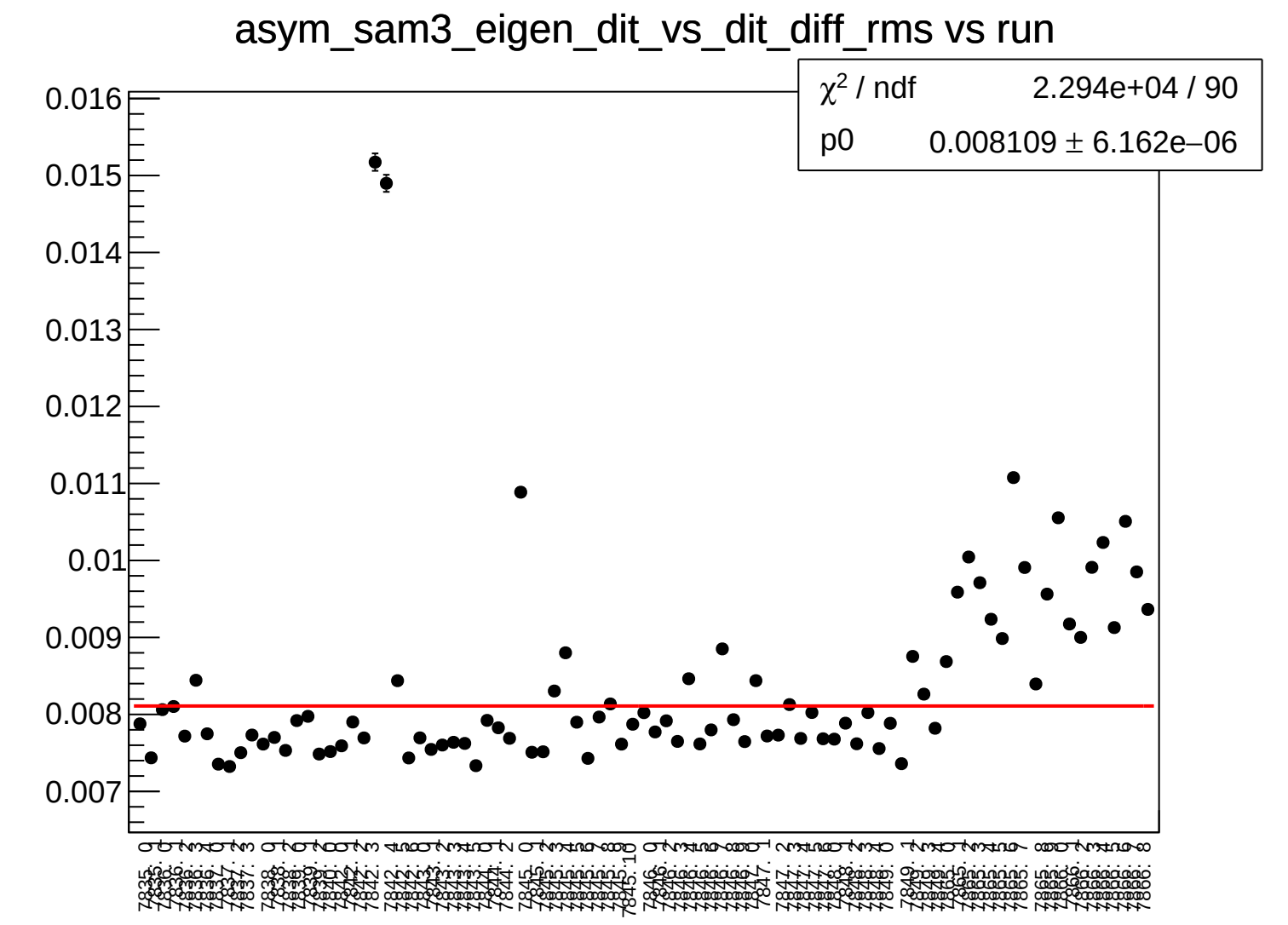

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.71 / 90
p0 −0.02511 ± 0.1143
pull
Entries 91
Mean 727.3
Std Dev 0

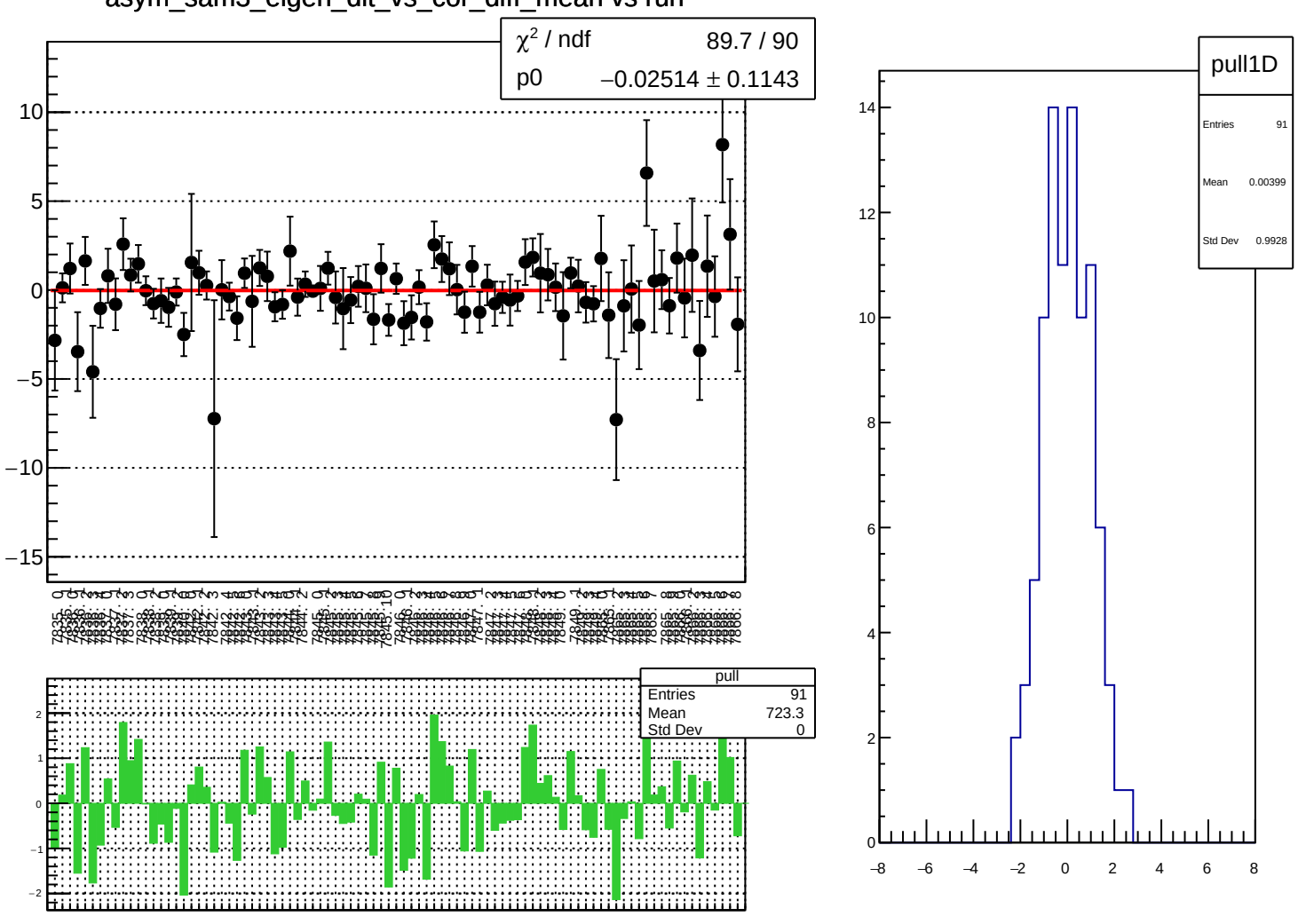

pull1D
Entries 91
Mean 0.003966
Std Dev 0.9929

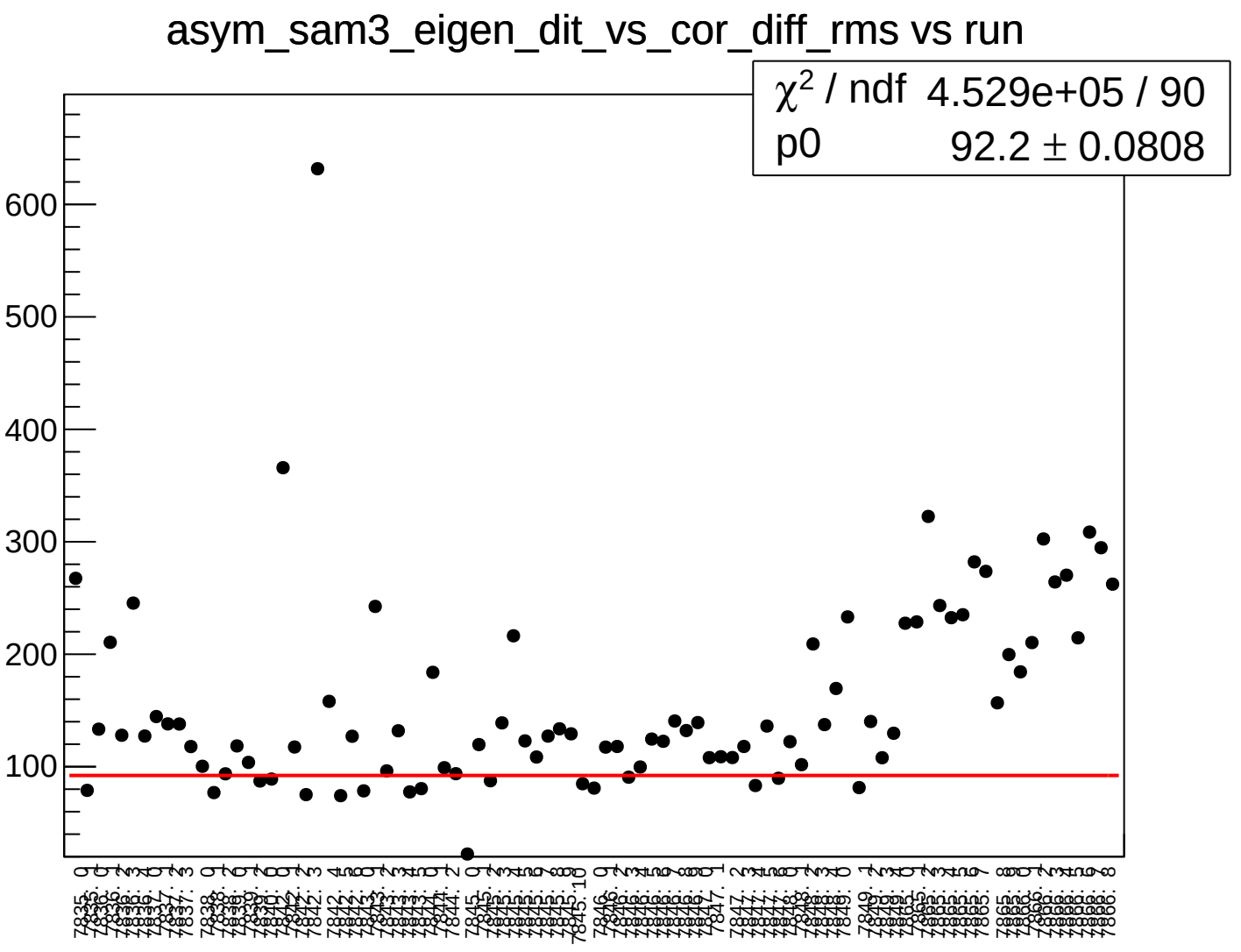

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.528e+05 / 90
p0 92.21 ± 0.0808
600
500
400
300
200
100

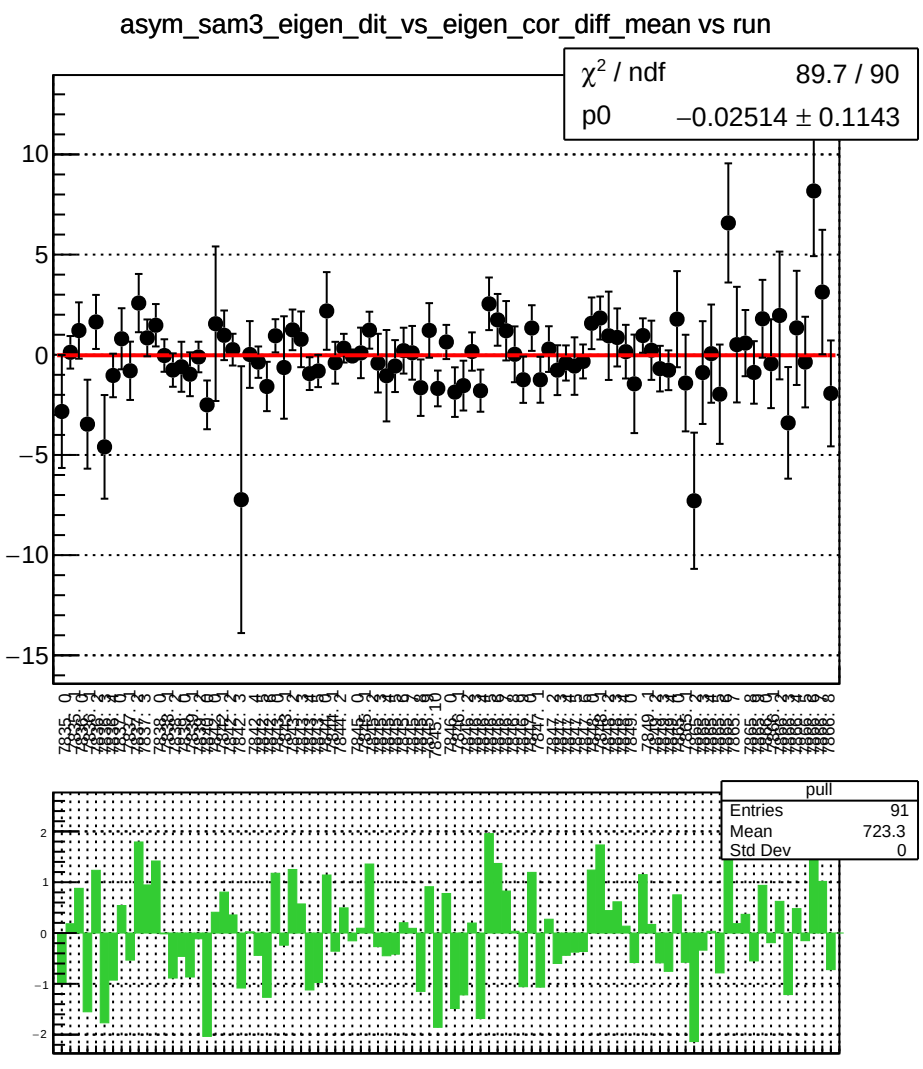

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.85 / 90
p0 8.639e−06 ± 8.714e−06
pull
Entries 91
Mean 320.3
Std Dev 0

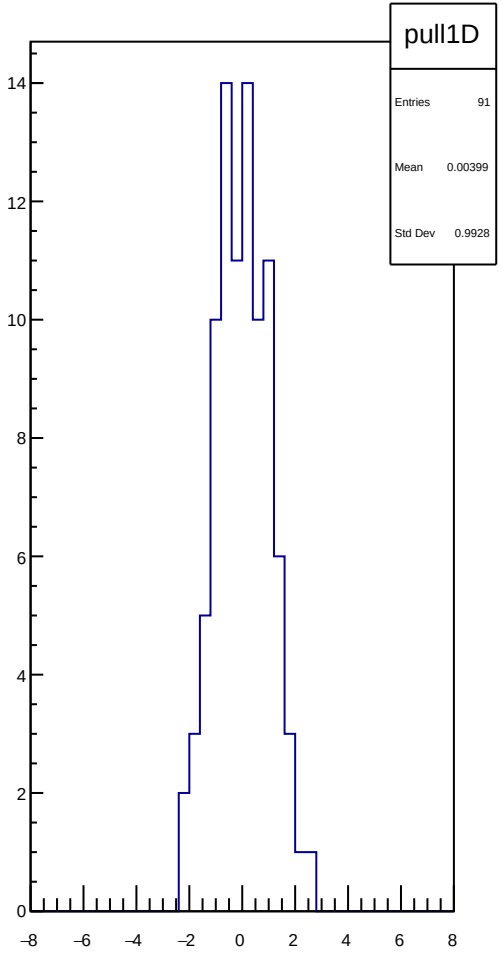

pull1D
Entries 91
Mean 0.007286
Std Dev 0.9249

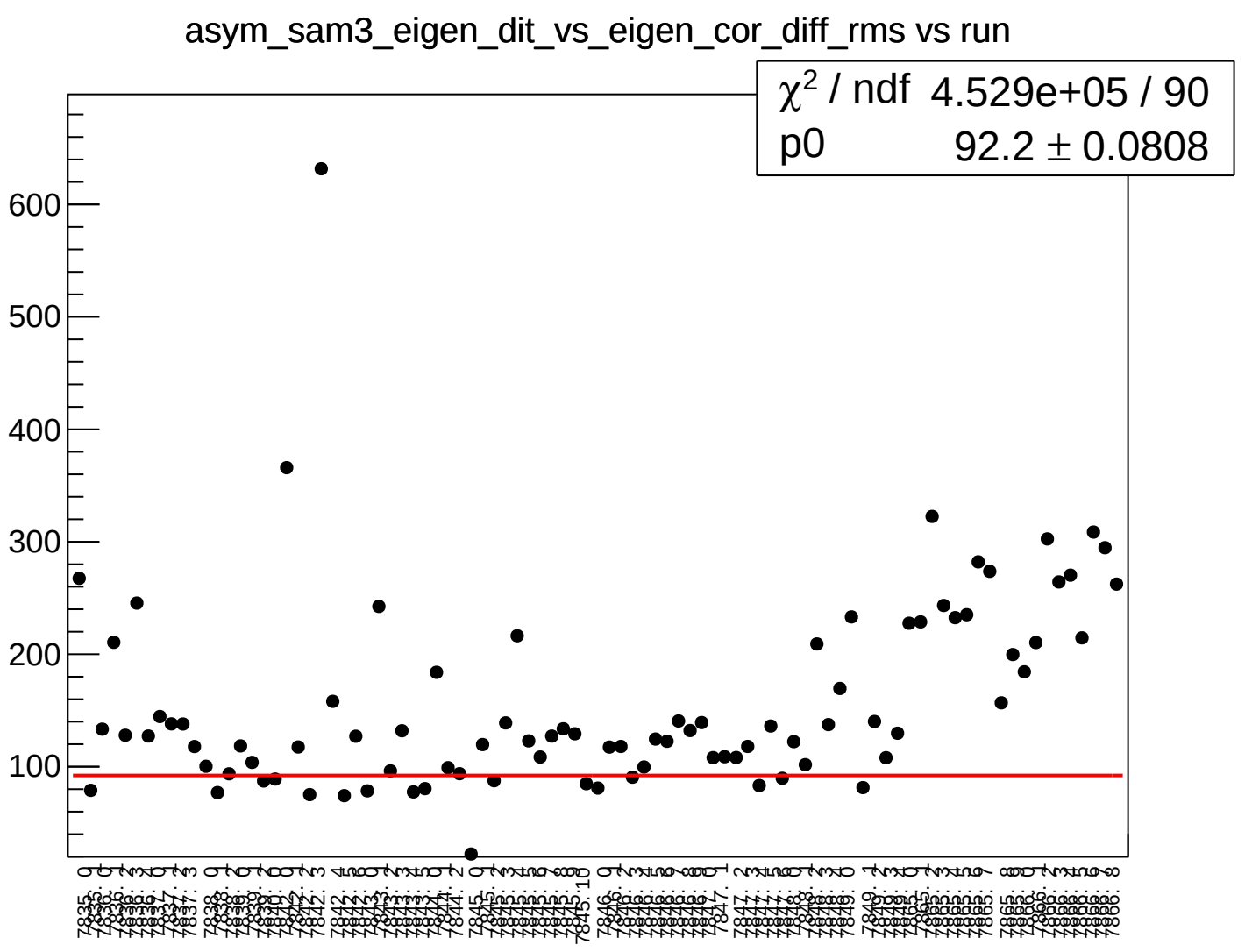

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.294e+04 / 90
p0 0.008109 ± 6.162e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

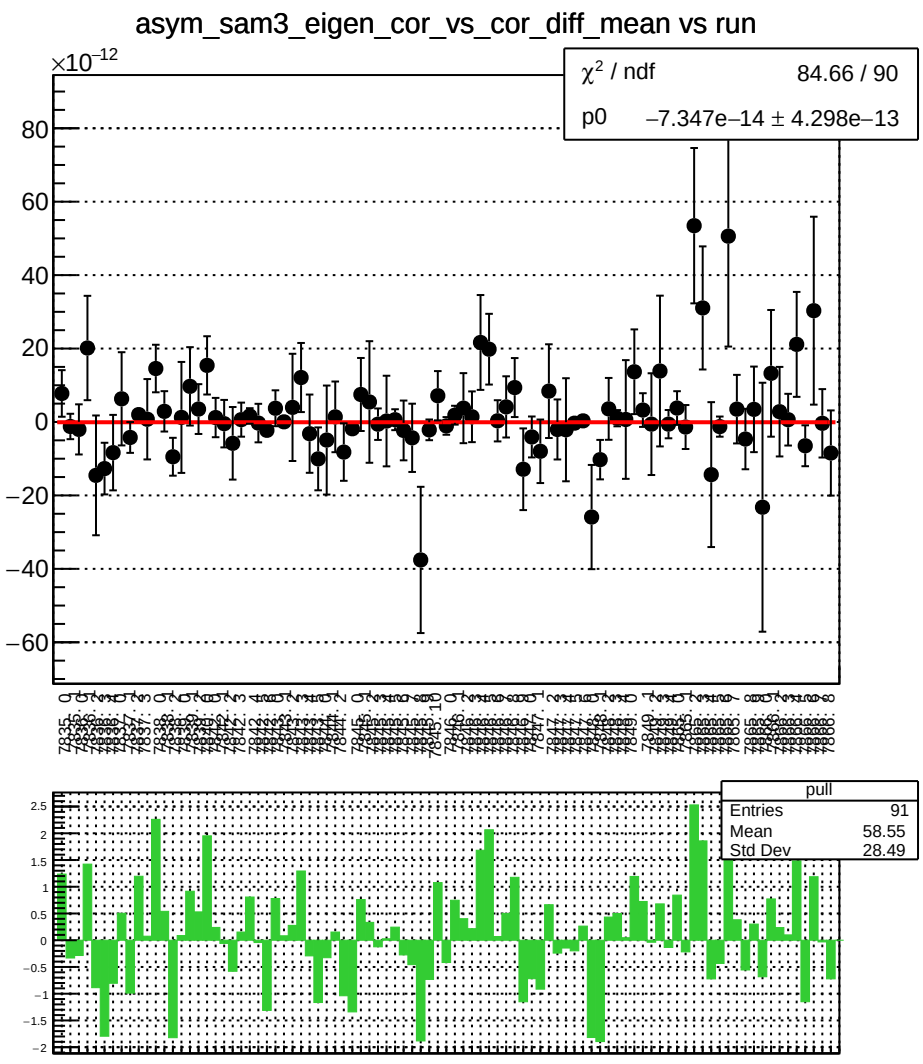

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.7 / 90
p0 −0.02514 ± 0.1143
pull
Entries 91
Mean 723.3
Std Dev 0
pull1D
Entries 91
Mean 0.00399
Std Dev 0.9928

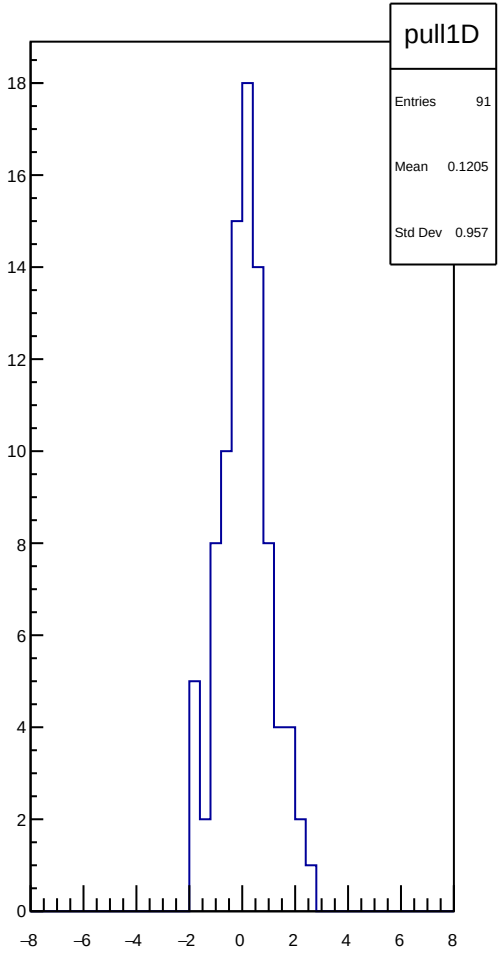

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.529e+05 / 90
p0 92.2 ± 0.0808
600
500
400
300
200
100

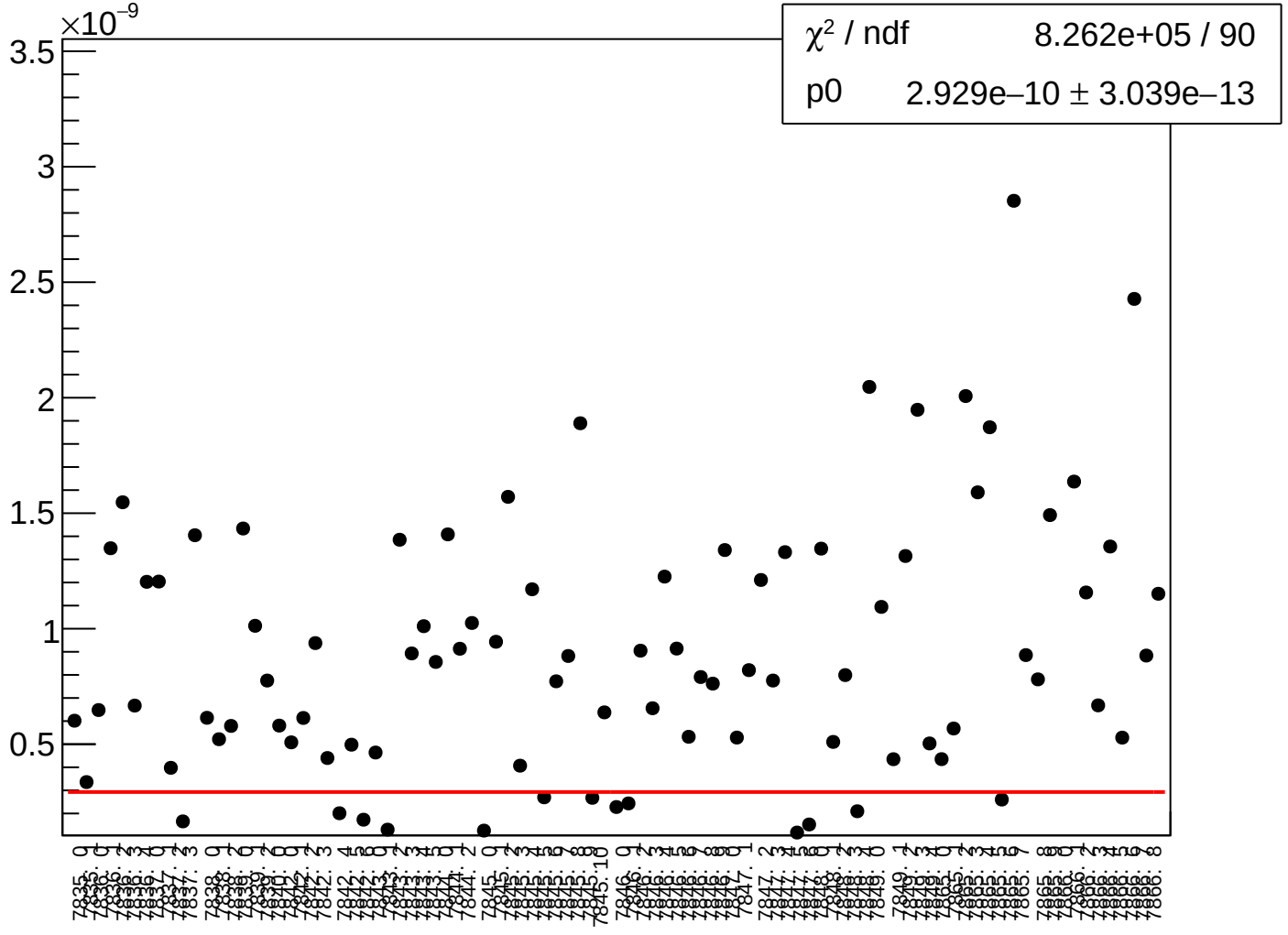

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.7 / 90
p0 −0.02514 ± 0.1143
pull
Entries 91
Mean 723.3
Std Dev 0

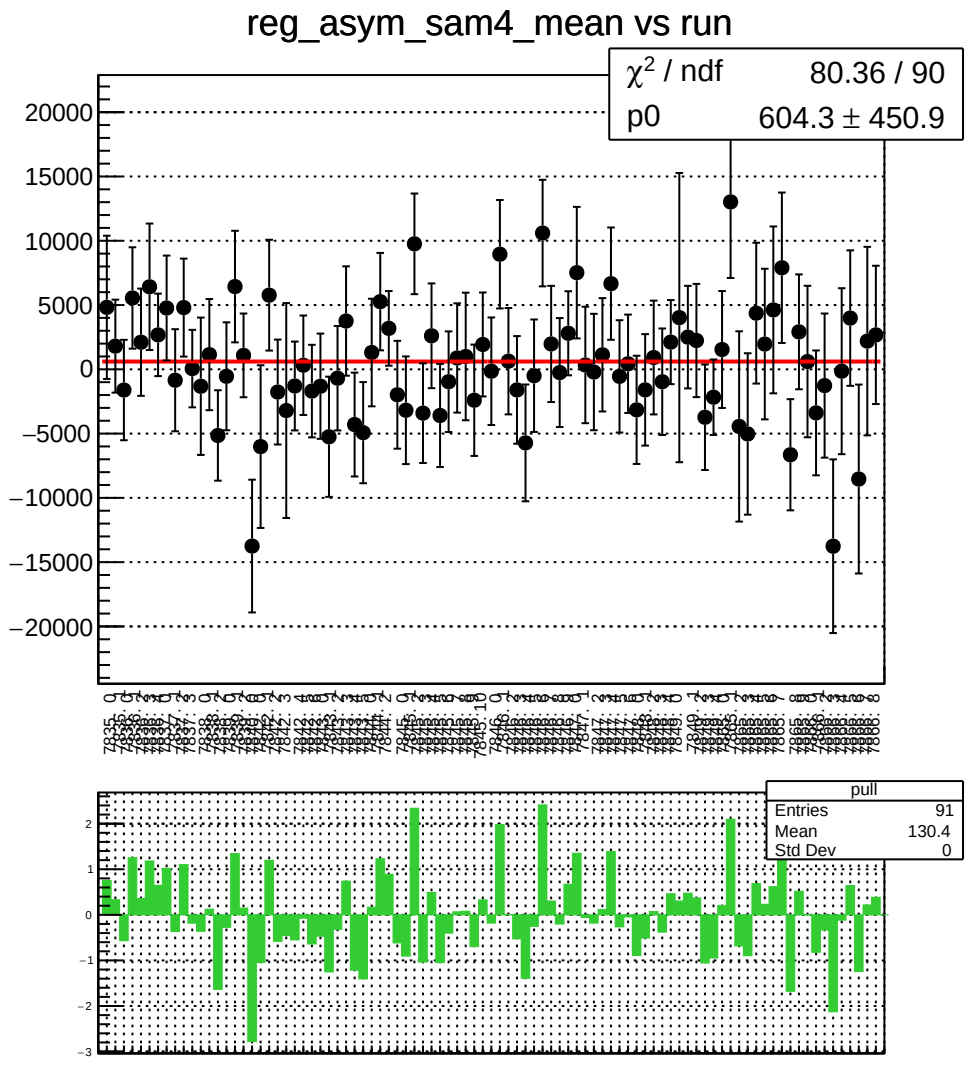

pull1D
Entries 91
Mean 0.00399
Std Dev 0.9928

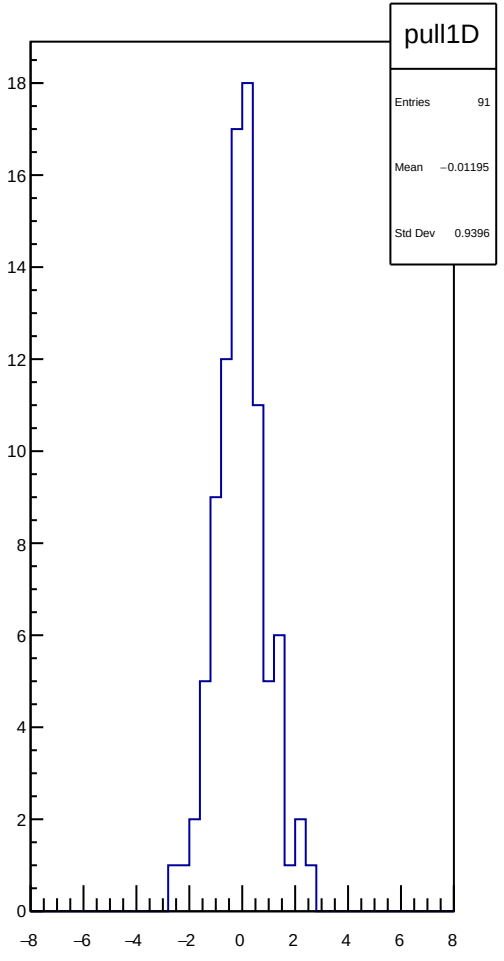

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.529e+05 / 90
p0 92.2 ± 0.0808
600
500
400
300
200
100

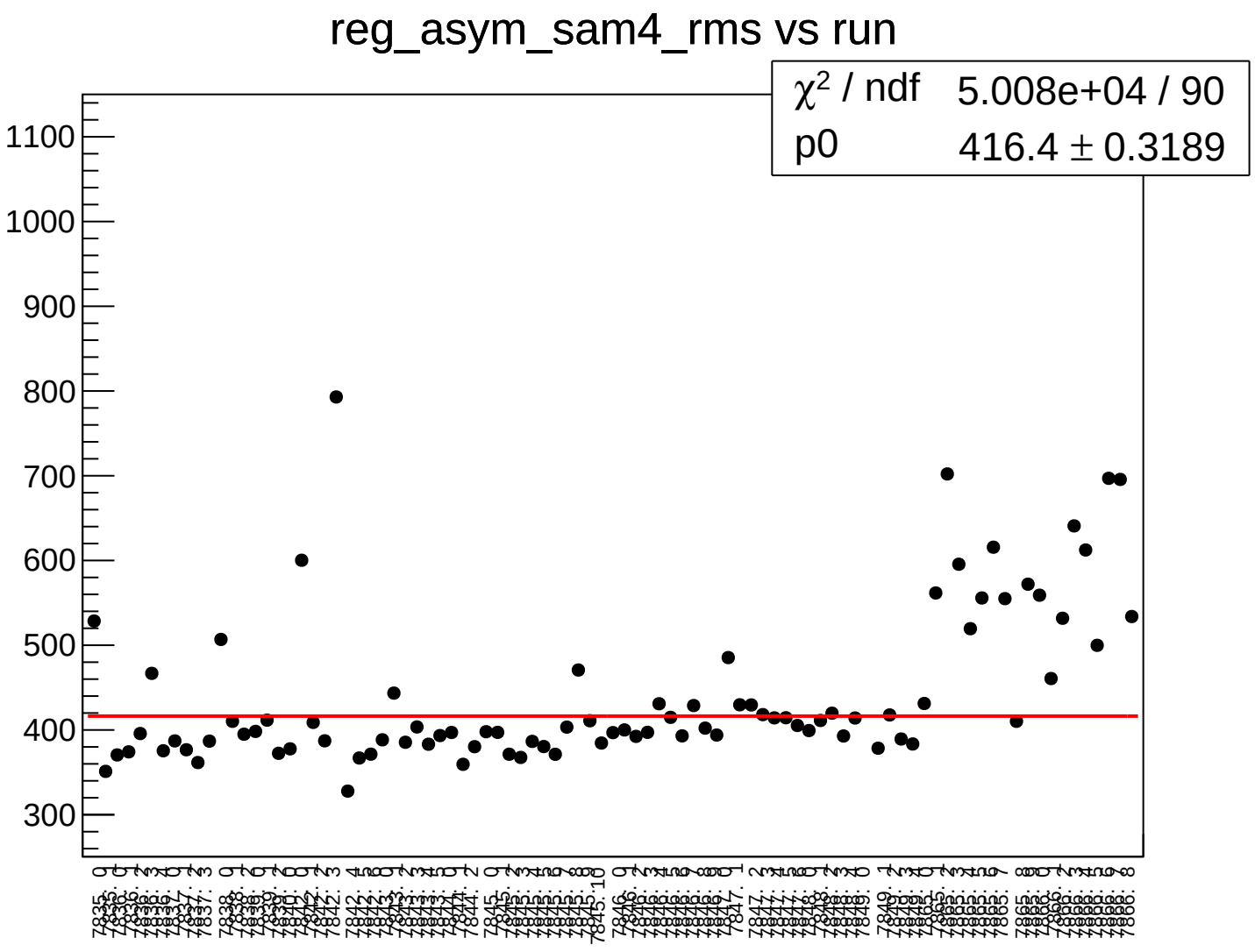

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.66 / 90
p0 −7.347e−14 ± 4.298e−13
pull
Entries 91
Mean 58.55
Std Dev 28.49

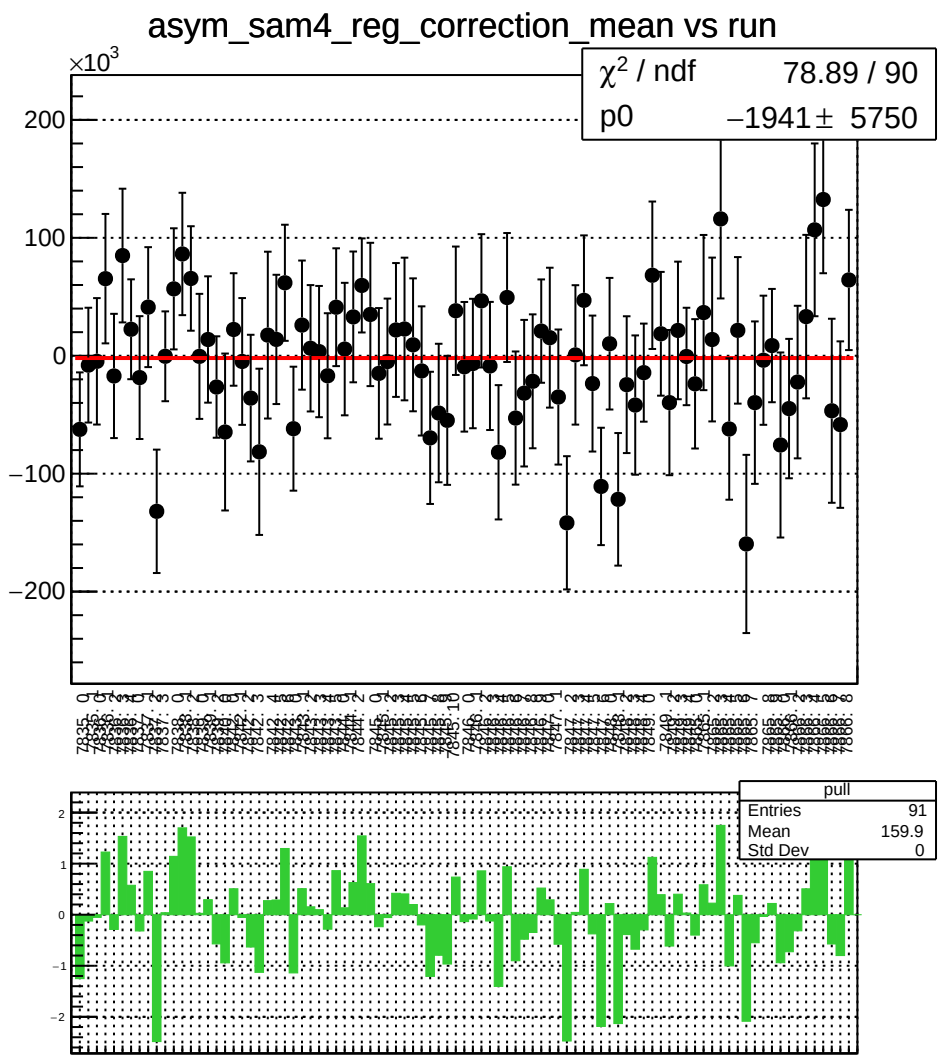

pull1D
Entries 91
Mean 0.1205
Std Dev 0.957

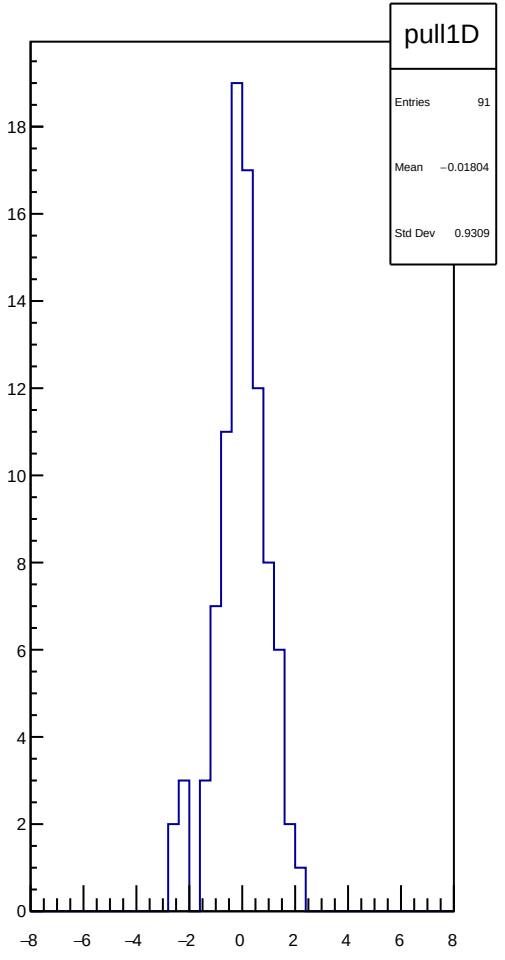

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.262e+05 / 90
p0 2.929e−10 ± 3.039e−13
3.5
3
2.5
2
1.5
1
0.5

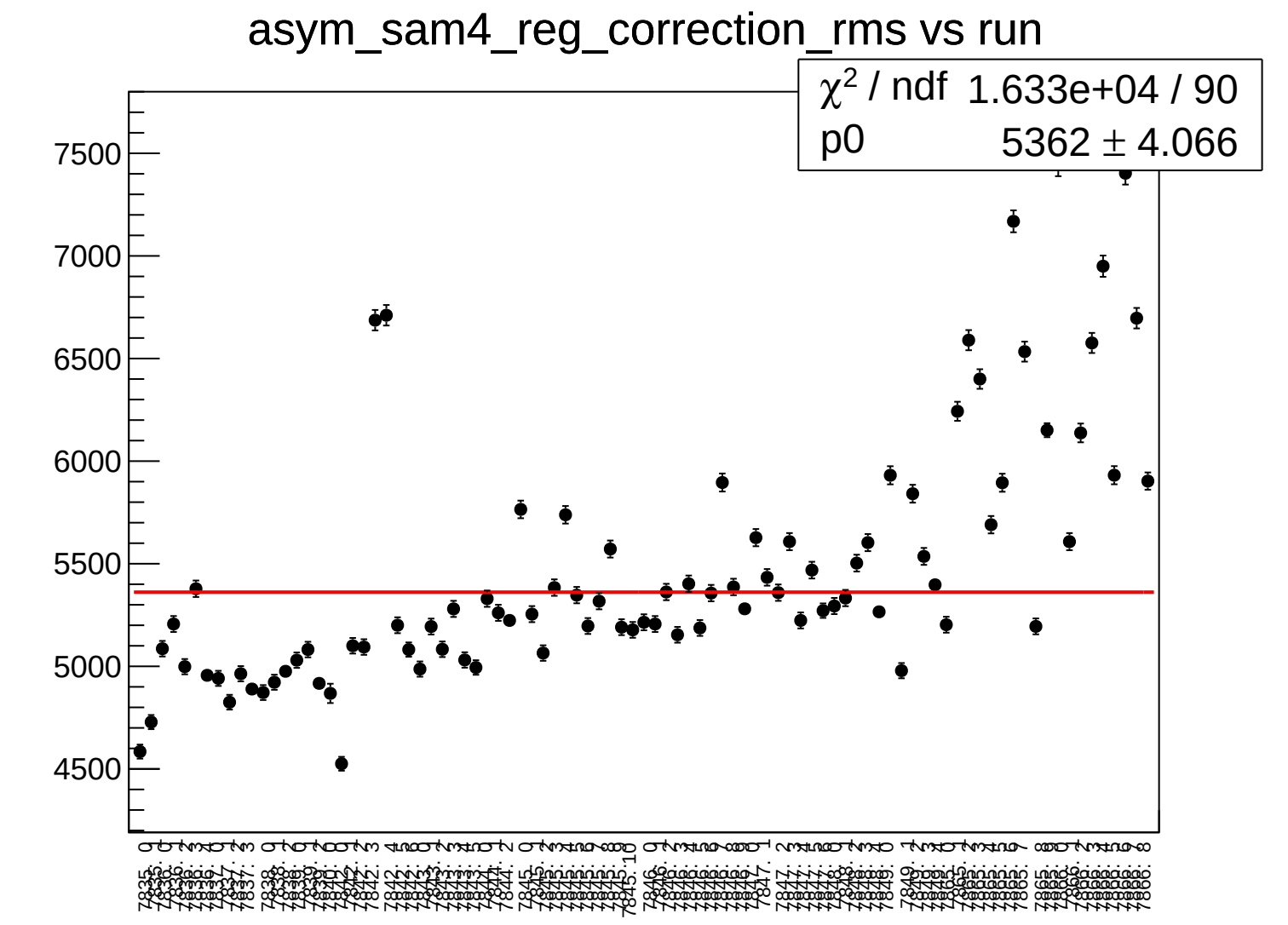

reg_asym_sam4_mean vs run
χ² / ndf 80.36 / 90
p0 604.3 ± 450.9
pull
Entries 91
Mean 130.4
Std Dev 0

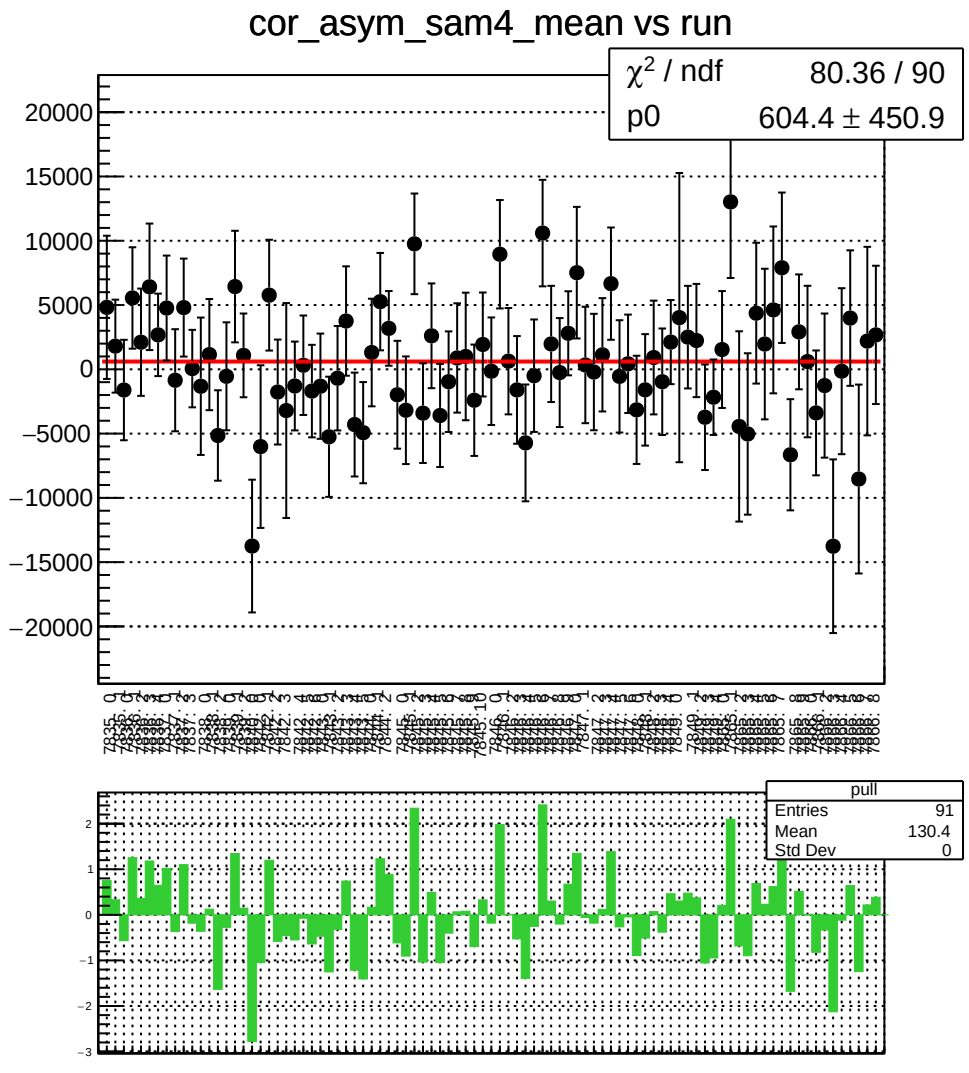

pull1D
Entries 91
Mean −0.01195
Std Dev 0.9396

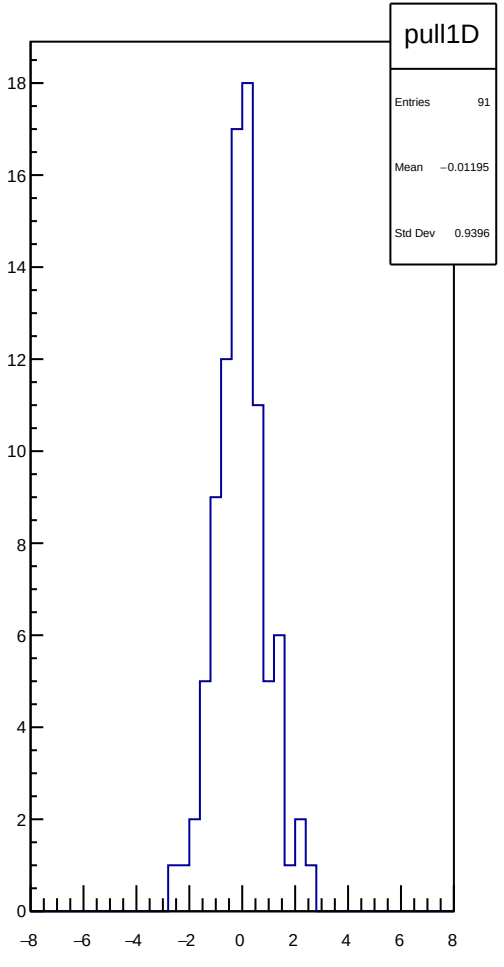

reg_asym_sam4_rms vs run
χ² / ndf 5.008e+04 / 90
p0 416.4 ± 0.3189
1100
1000
900
800
700
600
500
400
300

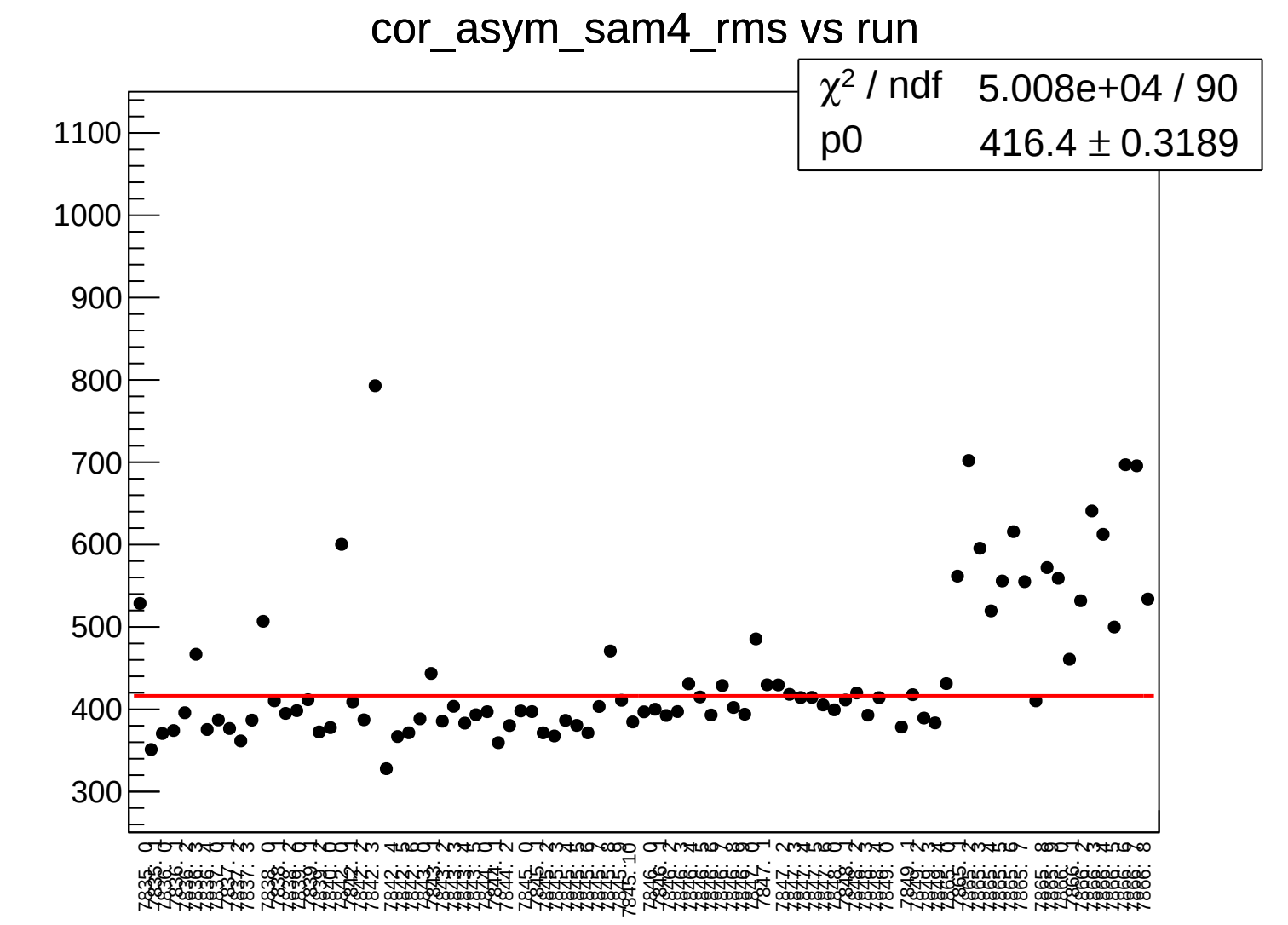

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 78.89 / 90
p0 −1941 ± 5750
200
100
0
−100
−200
pull
Entries 91
Mean 159.9
Std Dev 0
2
1
0
−1
−2

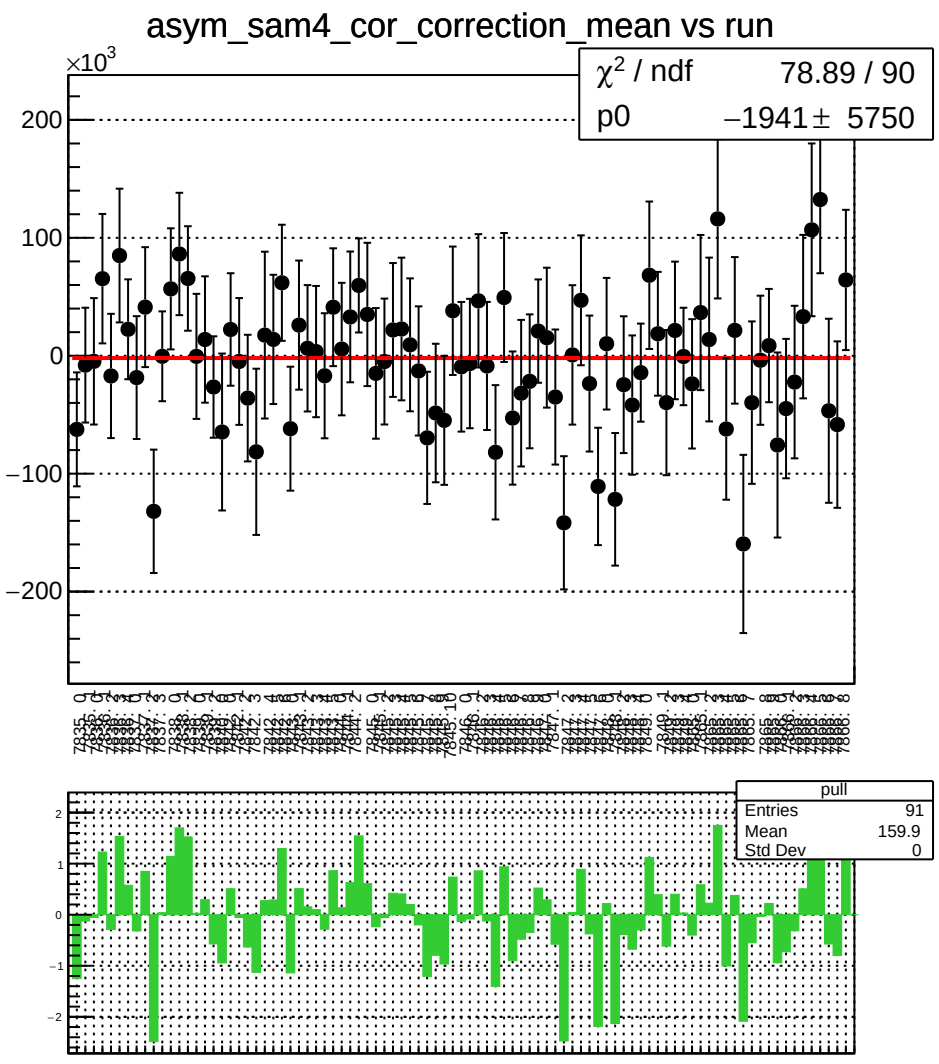

pull1D
Entries 91
Mean −0.01804
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

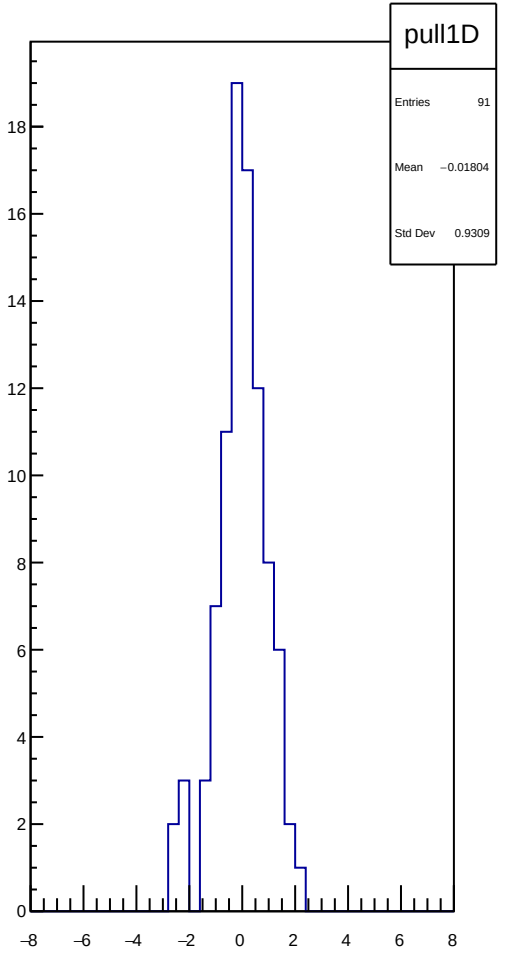

asym_sam4_reg_correction_rms vs run
χ² / ndf 1.633e+04 / 90
p0 5362 ± 4.066
7500
7000
6500
6000
5500
5000
4500

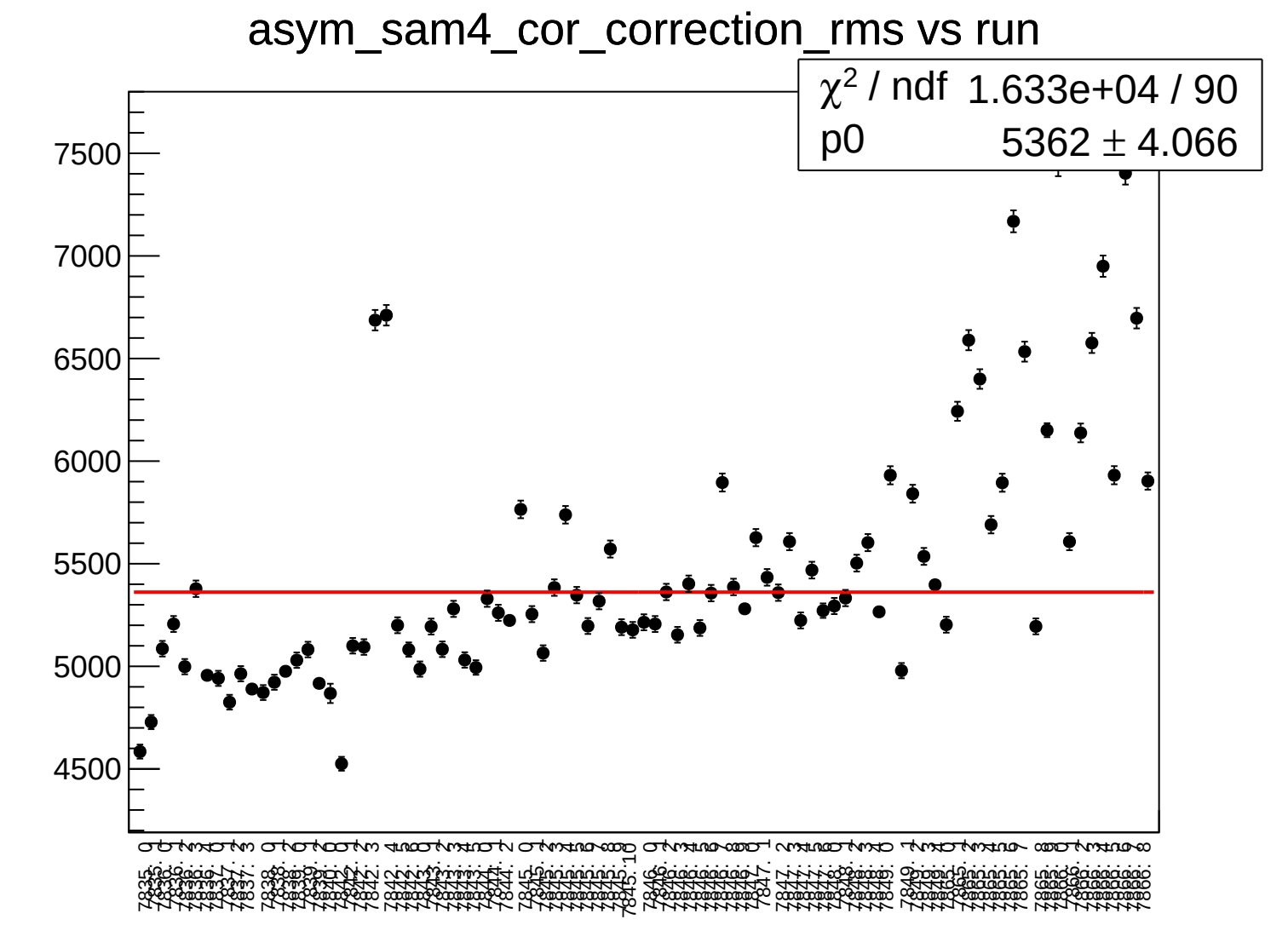

cor_asym_sam4_mean vs run
χ² / ndf 80.36 / 90
p0 604.4 ± 450.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 130.4
Std Dev 0
2
1
0
−1
−2
−3

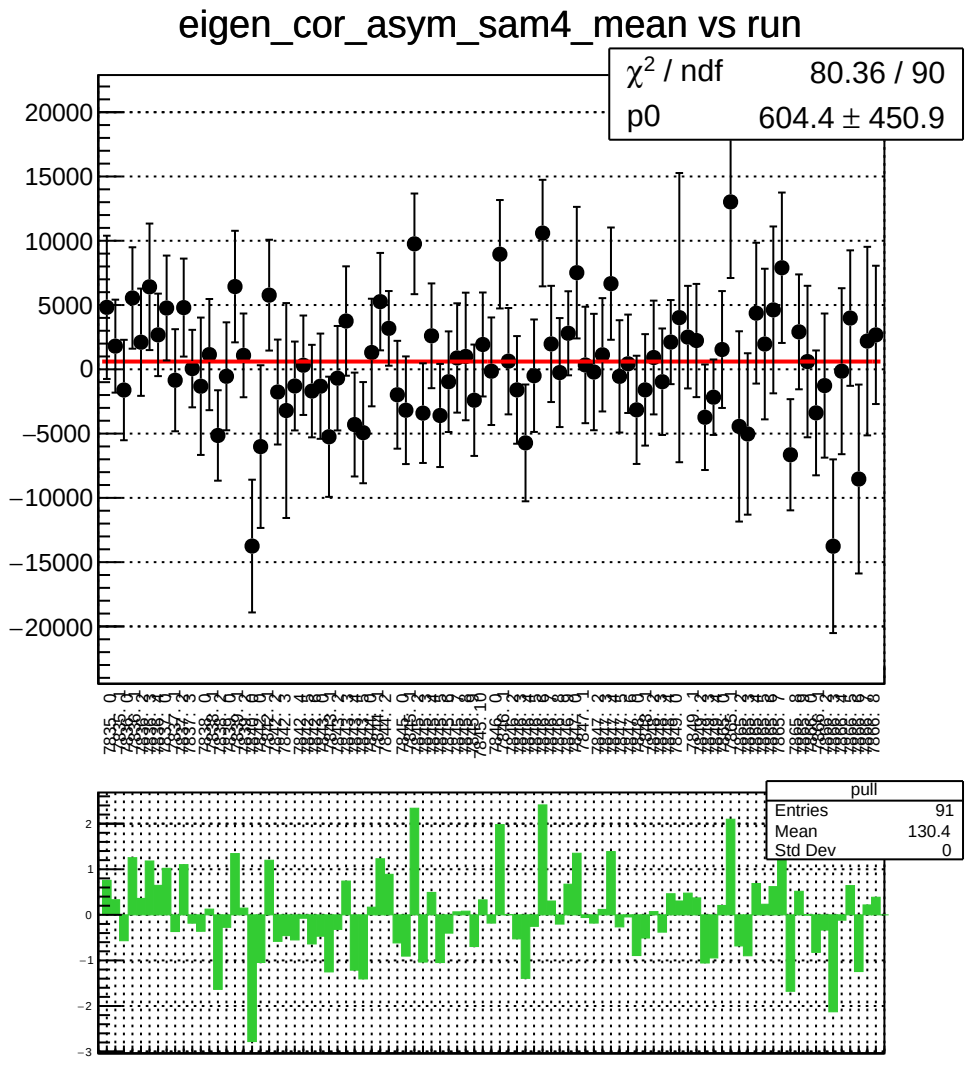

pull1D
Entries 91
Mean −0.01195
Std Dev 0.9396
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

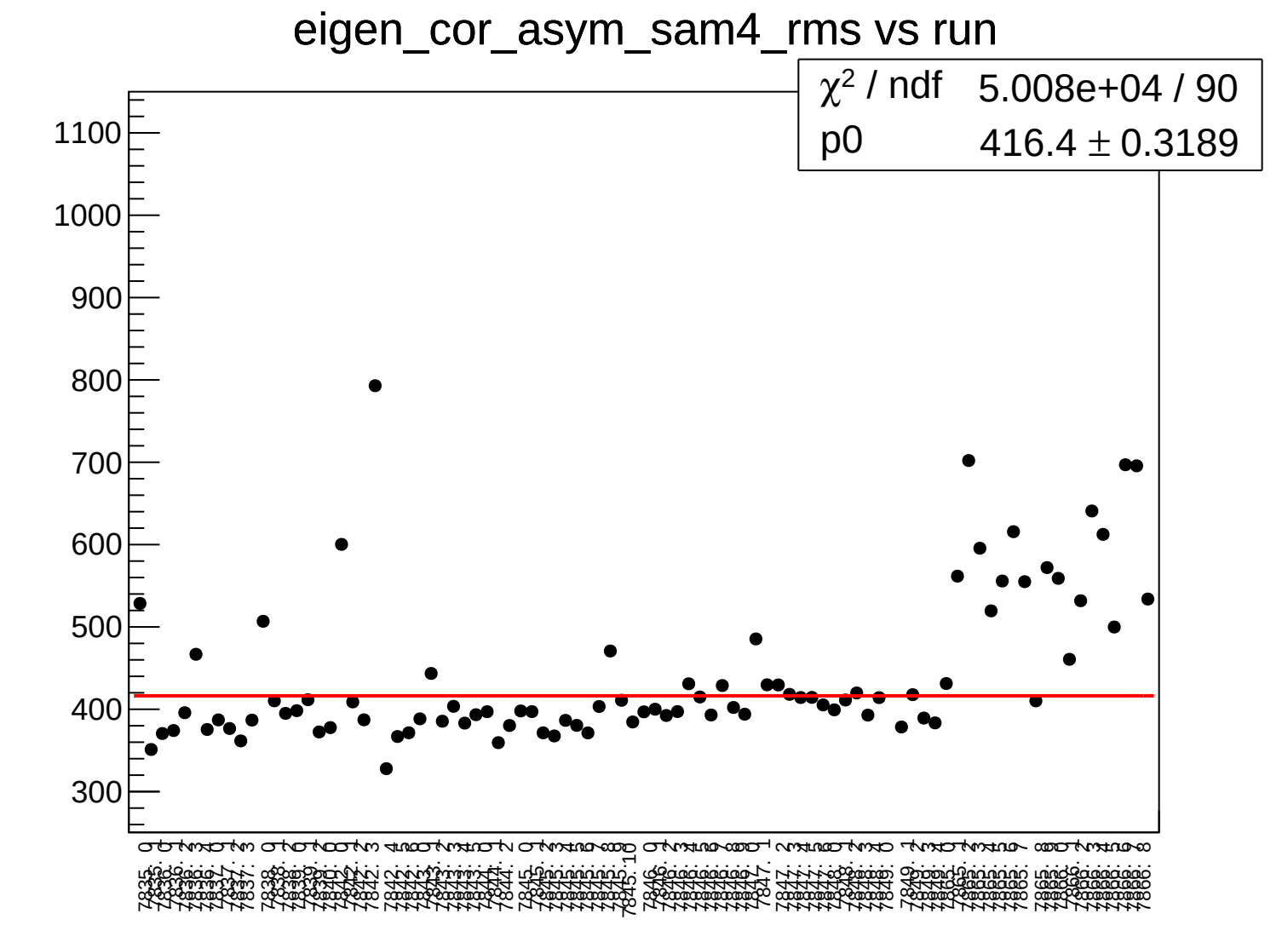

cor_asym_sam4_rms vs run
χ² / ndf 5.008e+04 / 90
p0 416.4 ± 0.3189
1100
1000
900
800
700
600
500
400
300

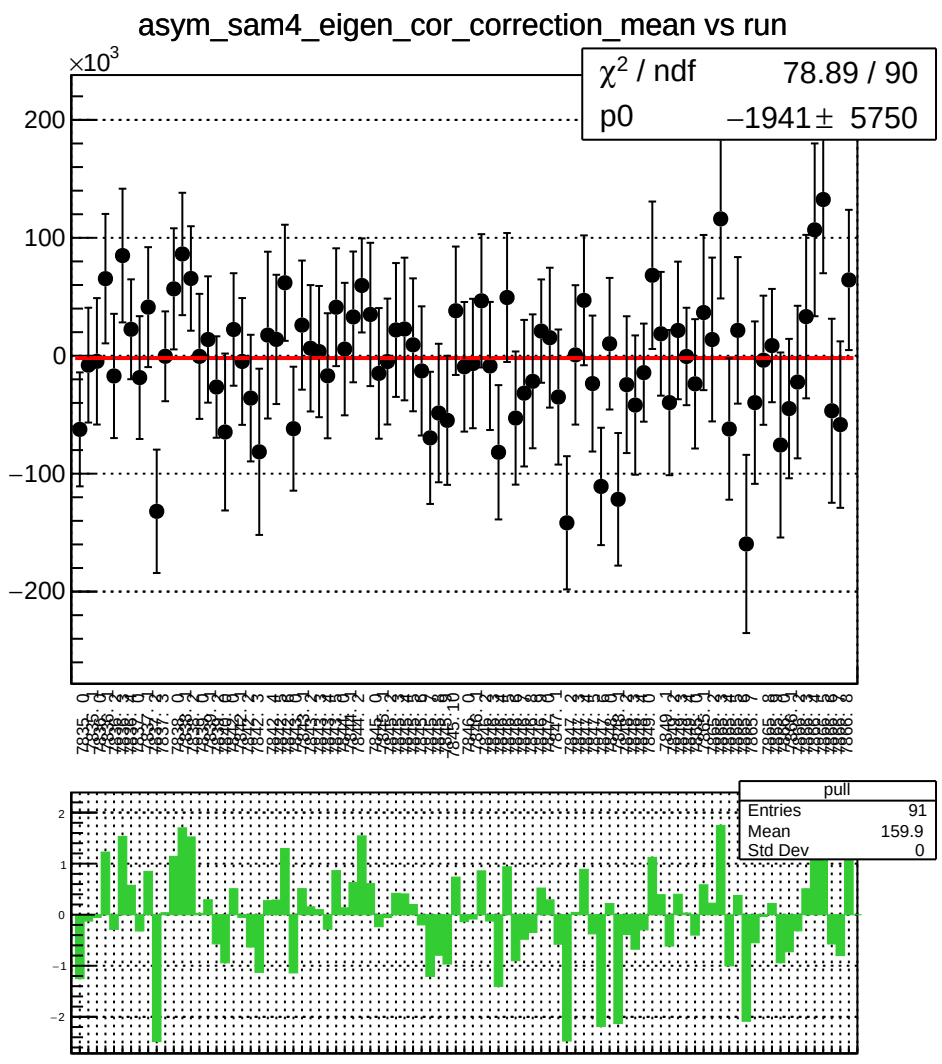

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 78.89 / 90
p0 −1941 ± 5750
200
100
0
−100
−200
pull
Entries 91
Mean 159.9
Std Dev 0
2
1
0
−1
−2

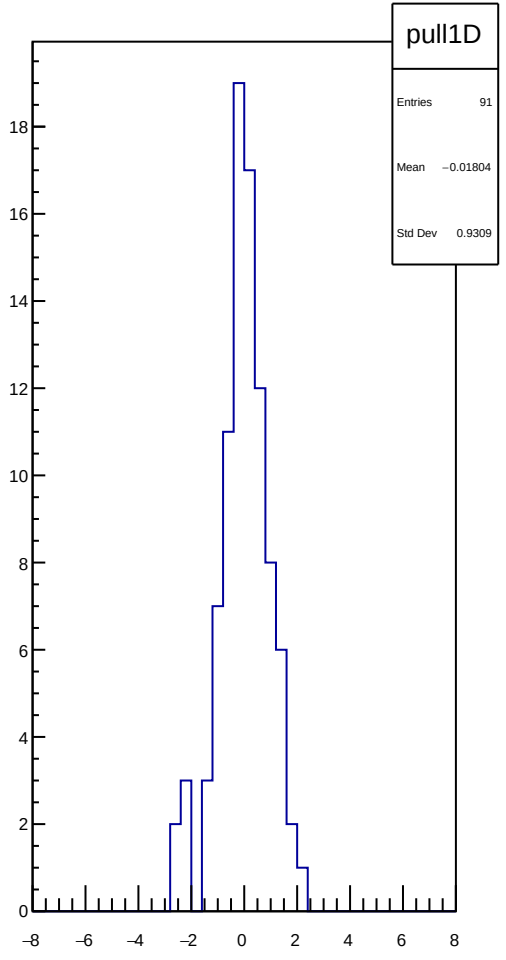

pull1D
Entries 91
Mean −0.01804
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

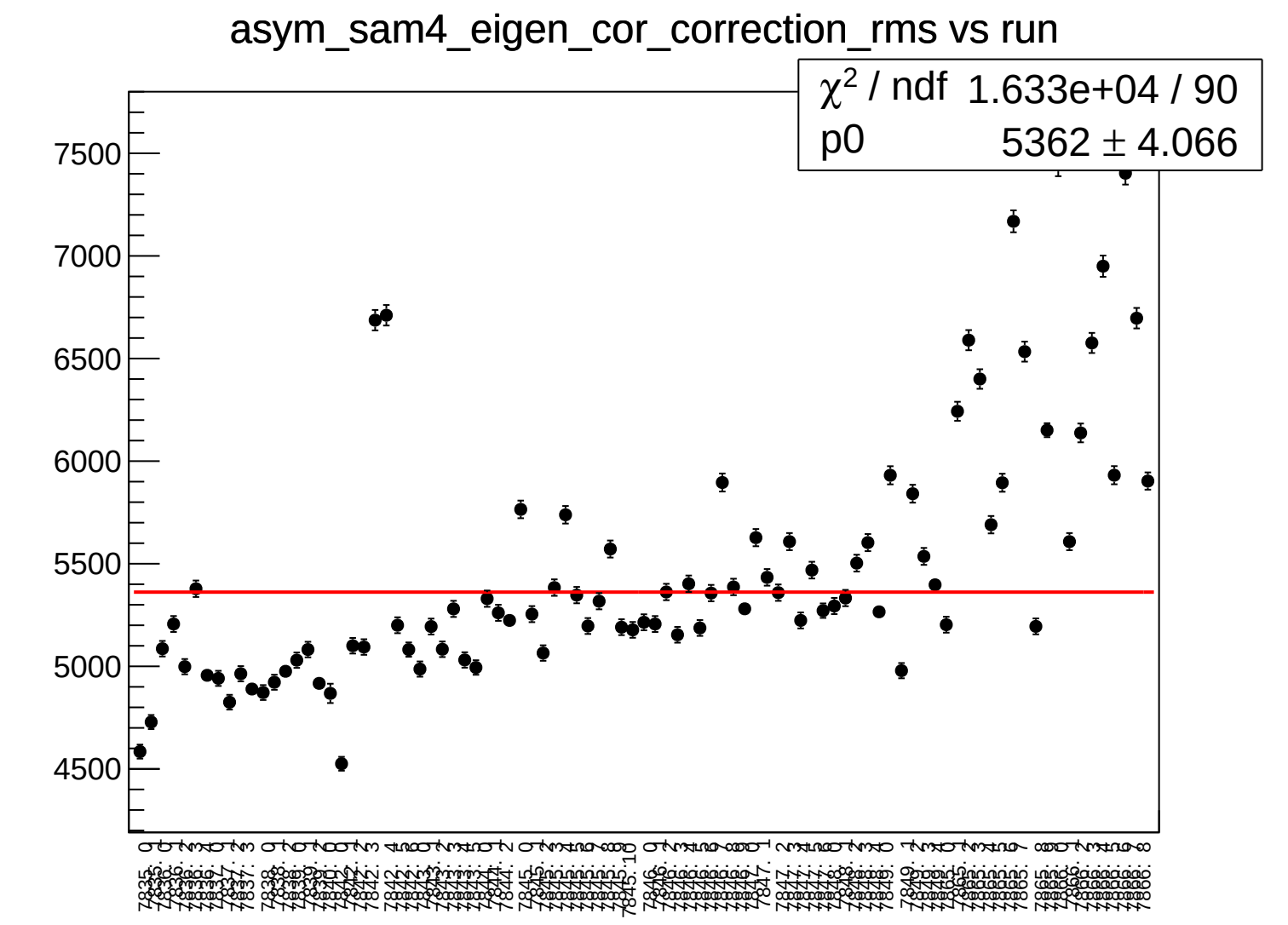

asym_sam4_cor_correction_rms vs run
χ² / ndf 1.633e+04 / 90
p0 5362 ± 4.066
7500
7000
6500
6000
5500
5000
4500

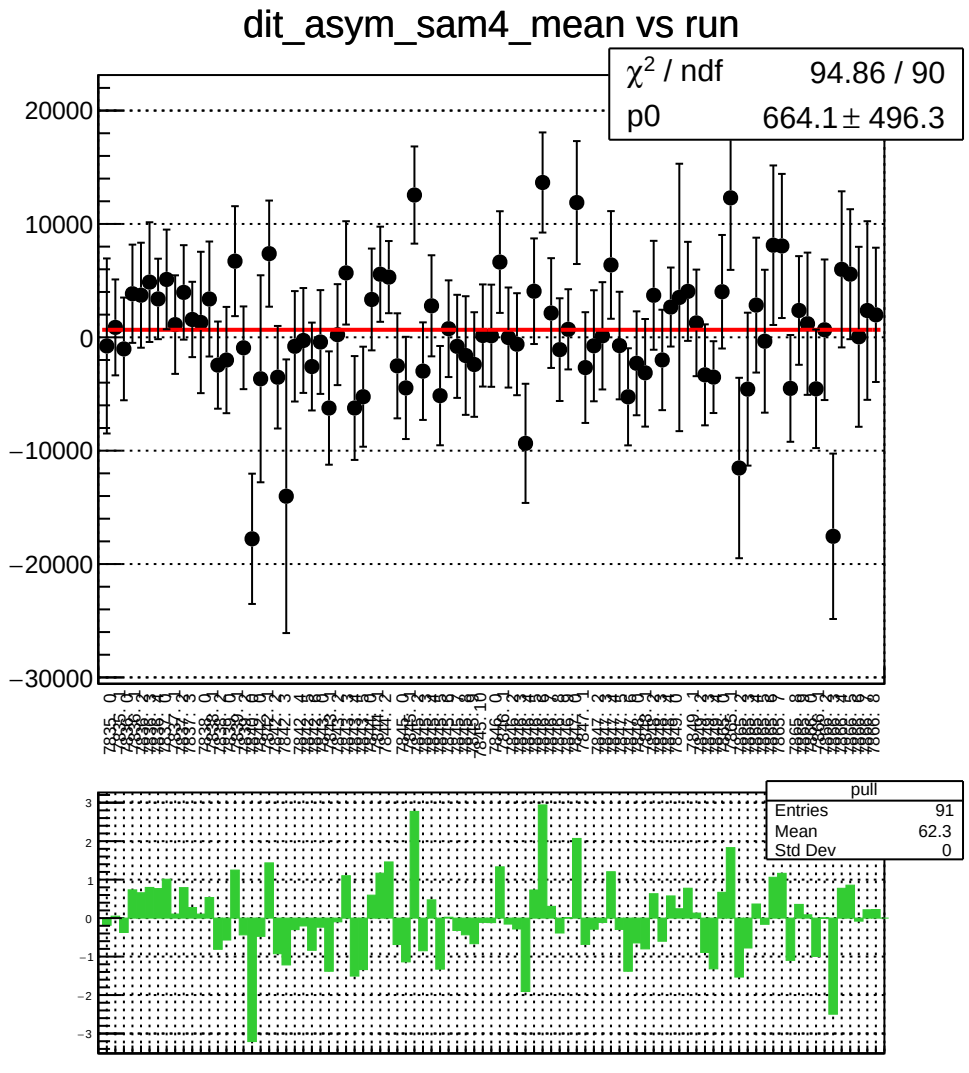

eigen_cor_asym_sam4_mean vs run
χ² / ndf 80.36 / 90
p0 604.4 ± 450.9
pull
Entries 91
Mean 130.4
Std Dev 0
pull1D
Entries 91
Mean −0.01195
Std Dev 0.9396

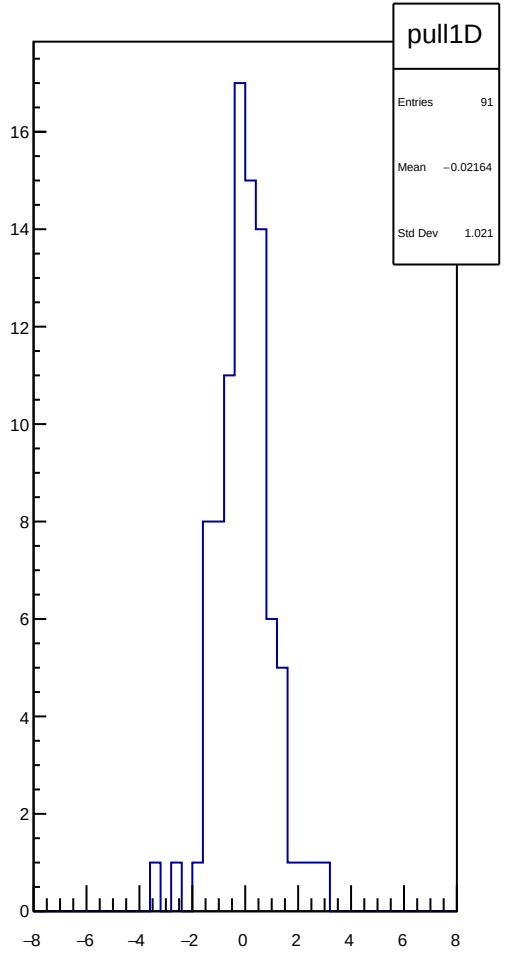

eigen_cor_asym_sam4_rms vs run
χ² / ndf 5.008e+04 / 90
p0 416.4 ± 0.3189
1100
1000
900
800
700
600
500
400
300

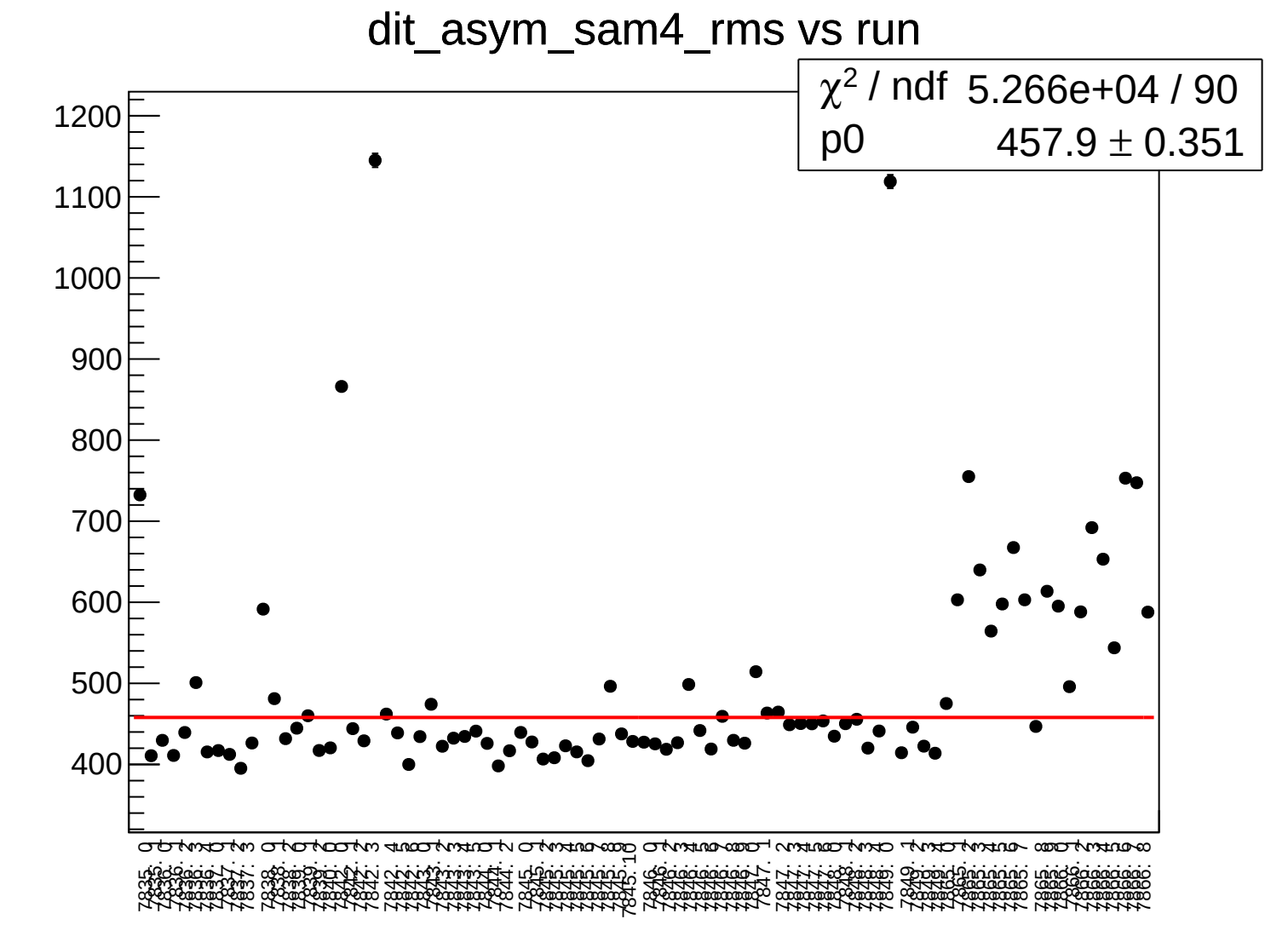

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.89 / 90
p0 −1941 ± 5750
200
100
0
−100
−200
pull
Entries 91
Mean 159.9
Std Dev 0
2
1
0
−1
−2

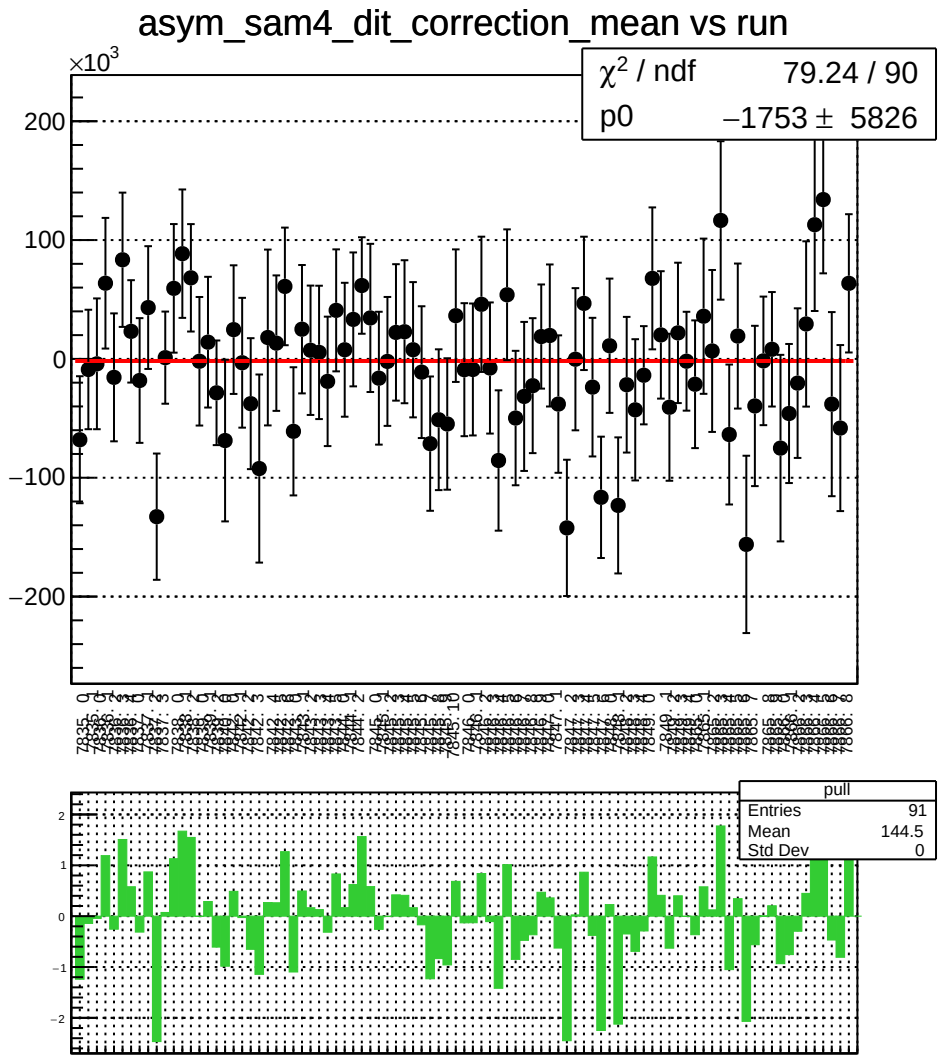

pull1D
Entries 91
Mean −0.01804
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

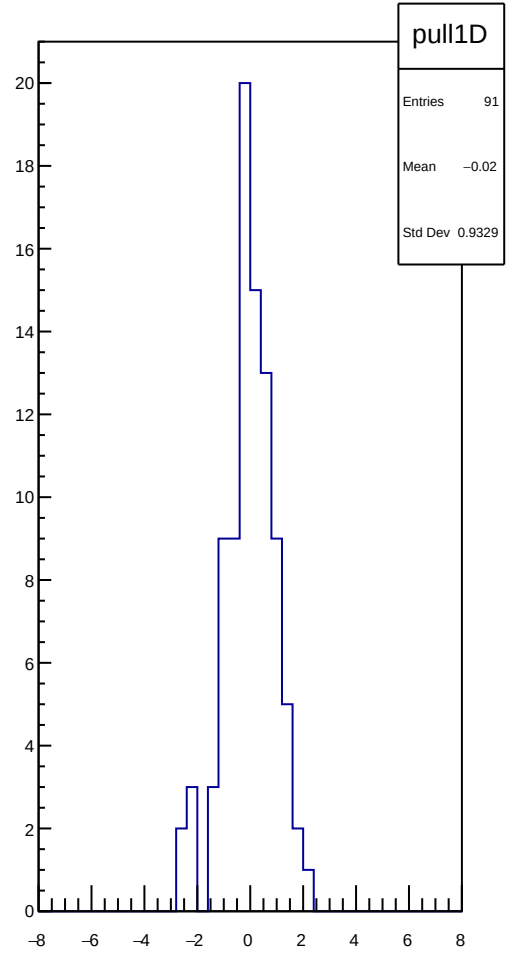

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 1.633e+04 / 90
p0 5362 ± 4.066
7500
7000
6500
6000
5500
5000
4500

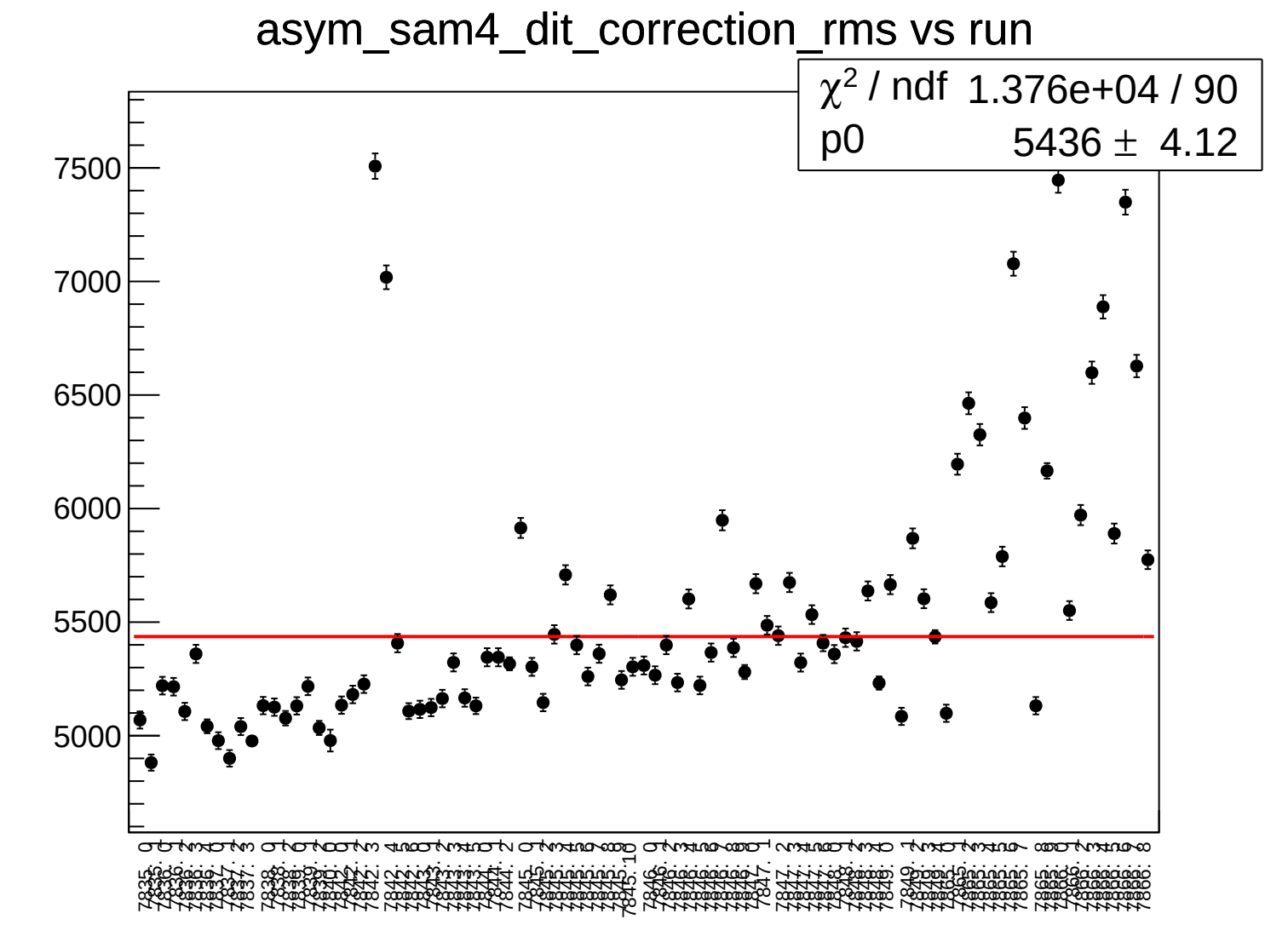

dit_asym_sam4_mean vs run
χ² / ndf 94.86 / 90
p0 664.1 ± 496.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 62.3
Std Dev 0
3
2
1
0
−1
−2
−3

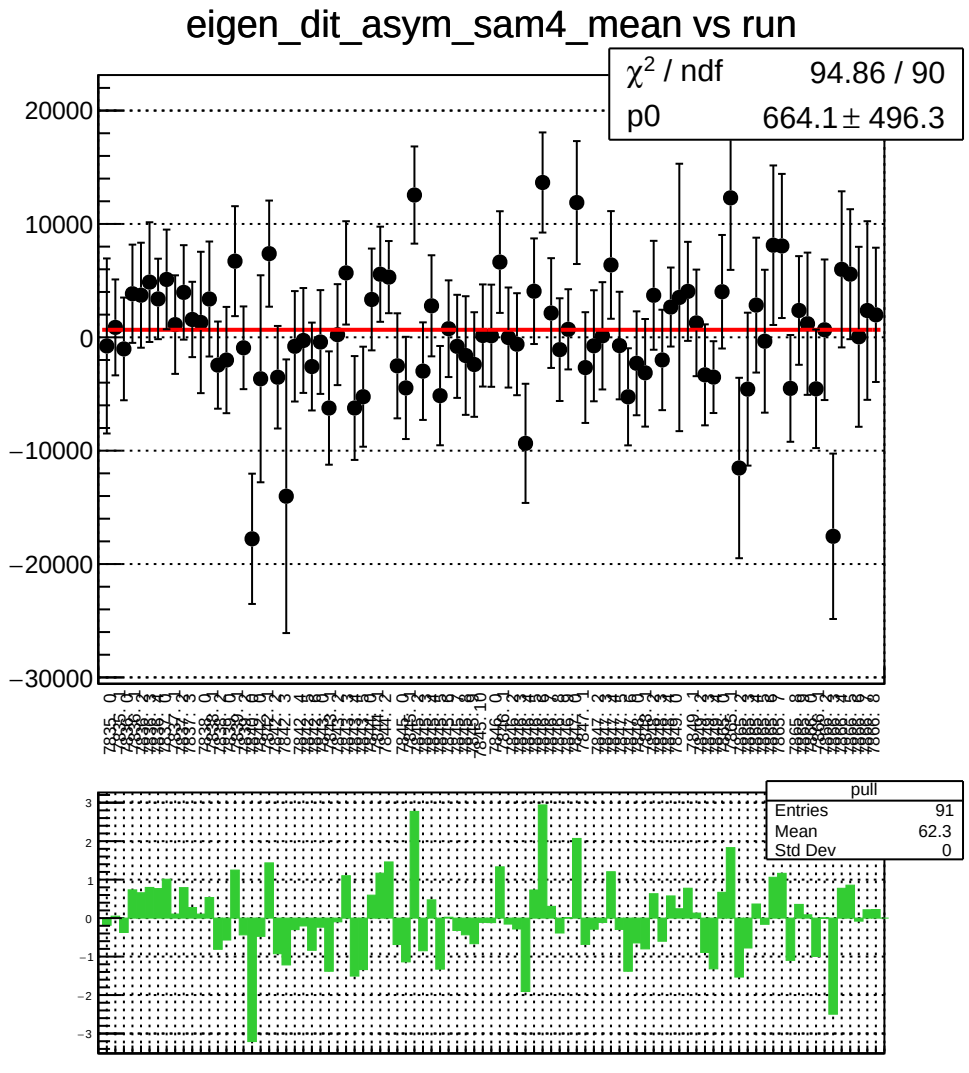

pull1D
Entries 91
Mean −0.02164
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

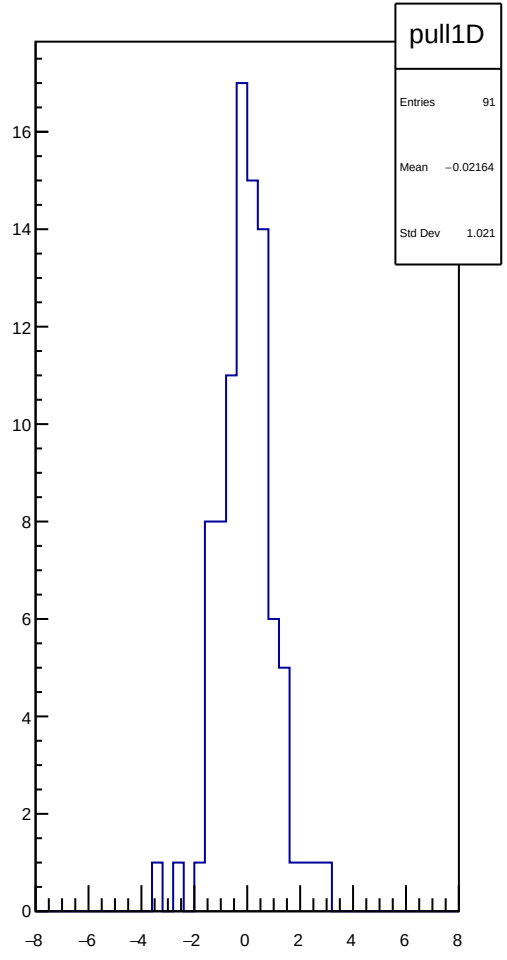

dit_asym_sam4_rms vs run
χ^2 / ndf 5.266e+04 / 90
p0 457.9 ± 0.351
1200
1100
1000
900
800
700
600
500
400

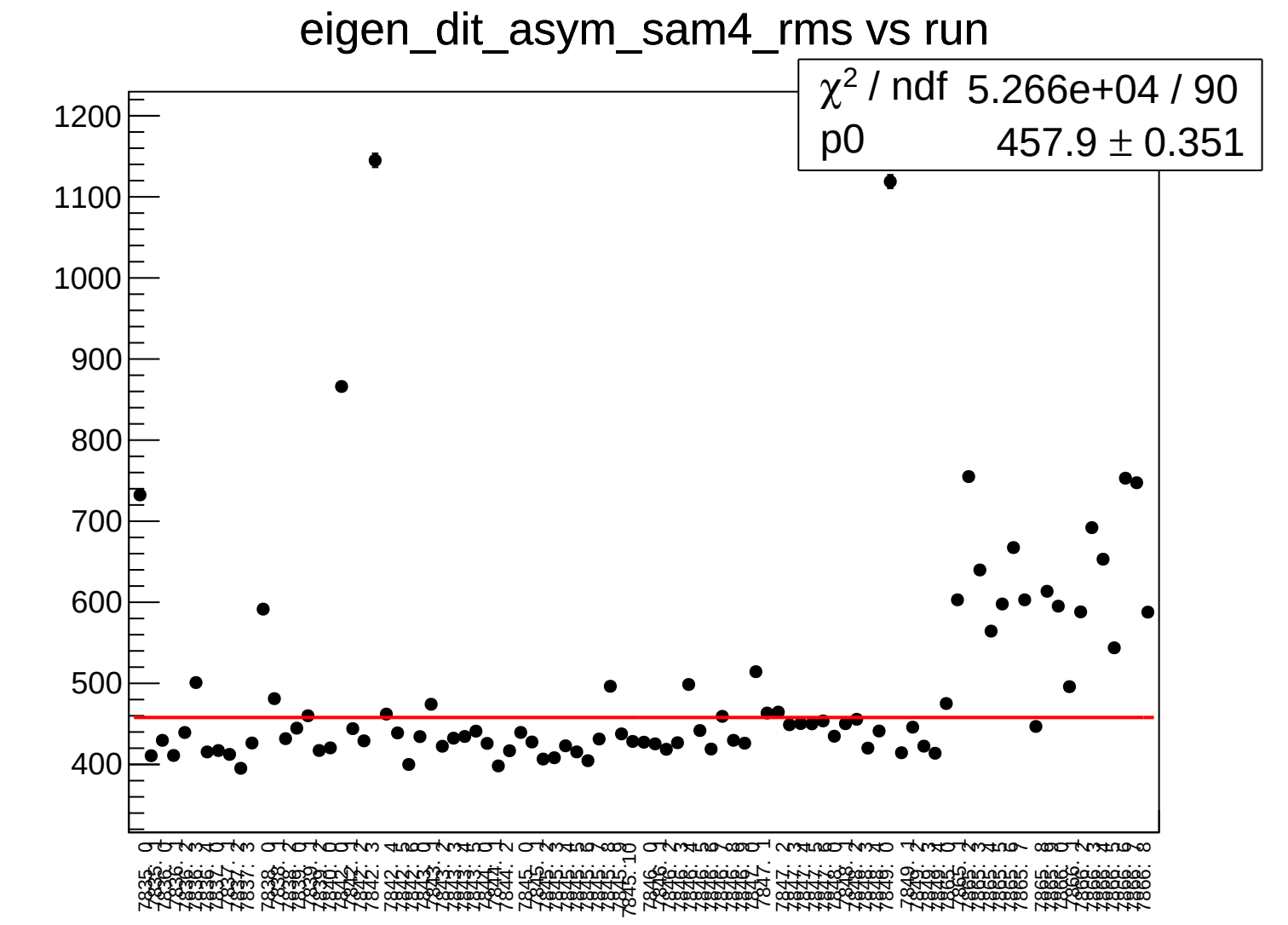

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 79.24 / 90
p0 −1753 ± 5826
200
100
0
−100
−200
pull
Entries 91
Mean 144.5
Std Dev 0
2
1
0
−1
−2

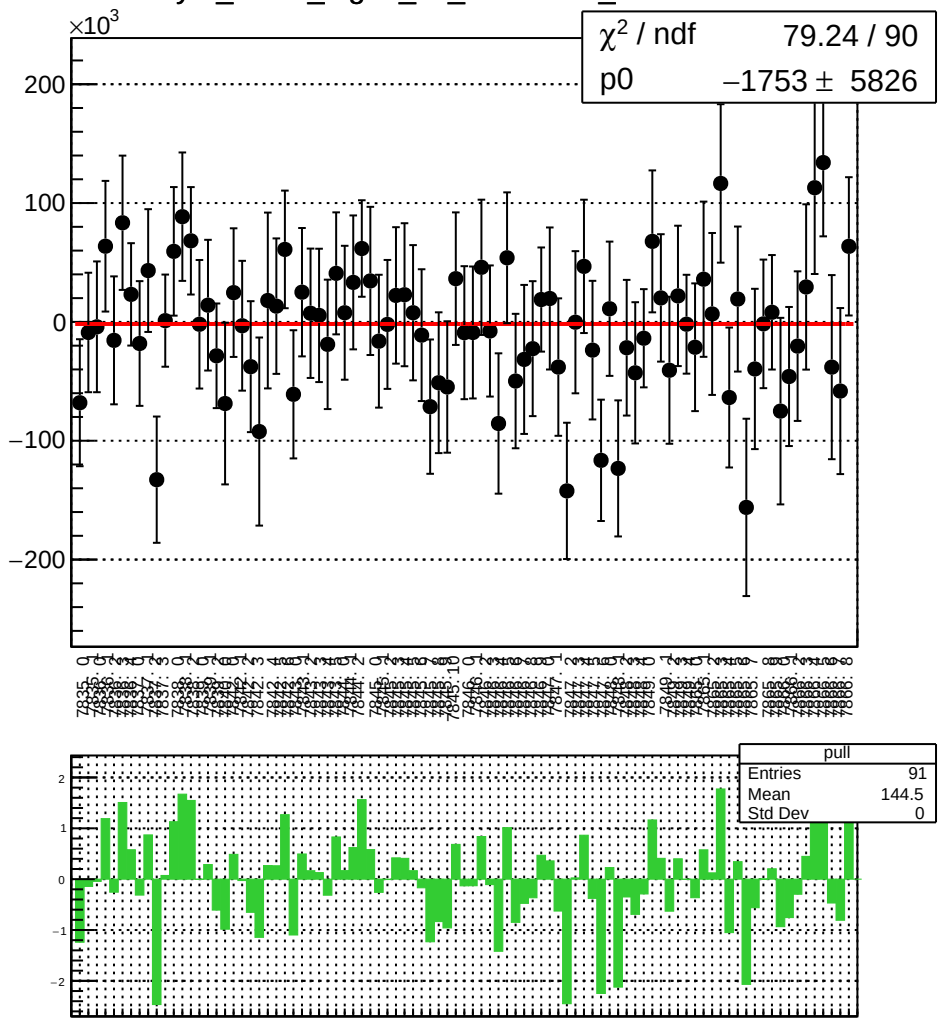

pull1D
Entries 91
Mean −0.02
Std Dev 0.9329
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

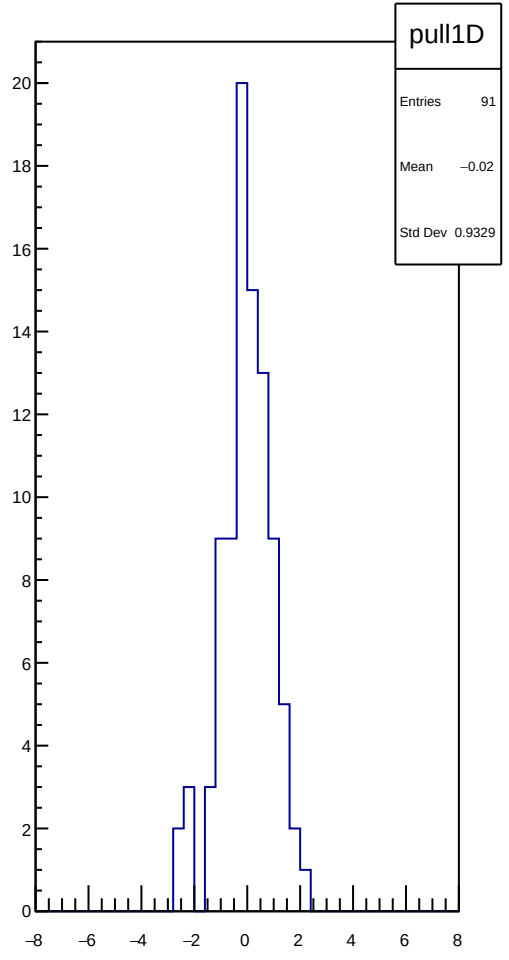

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.376e+04 / 90
p0 5436 ± 4.12
7500
7000
6500
6000
5500
5000

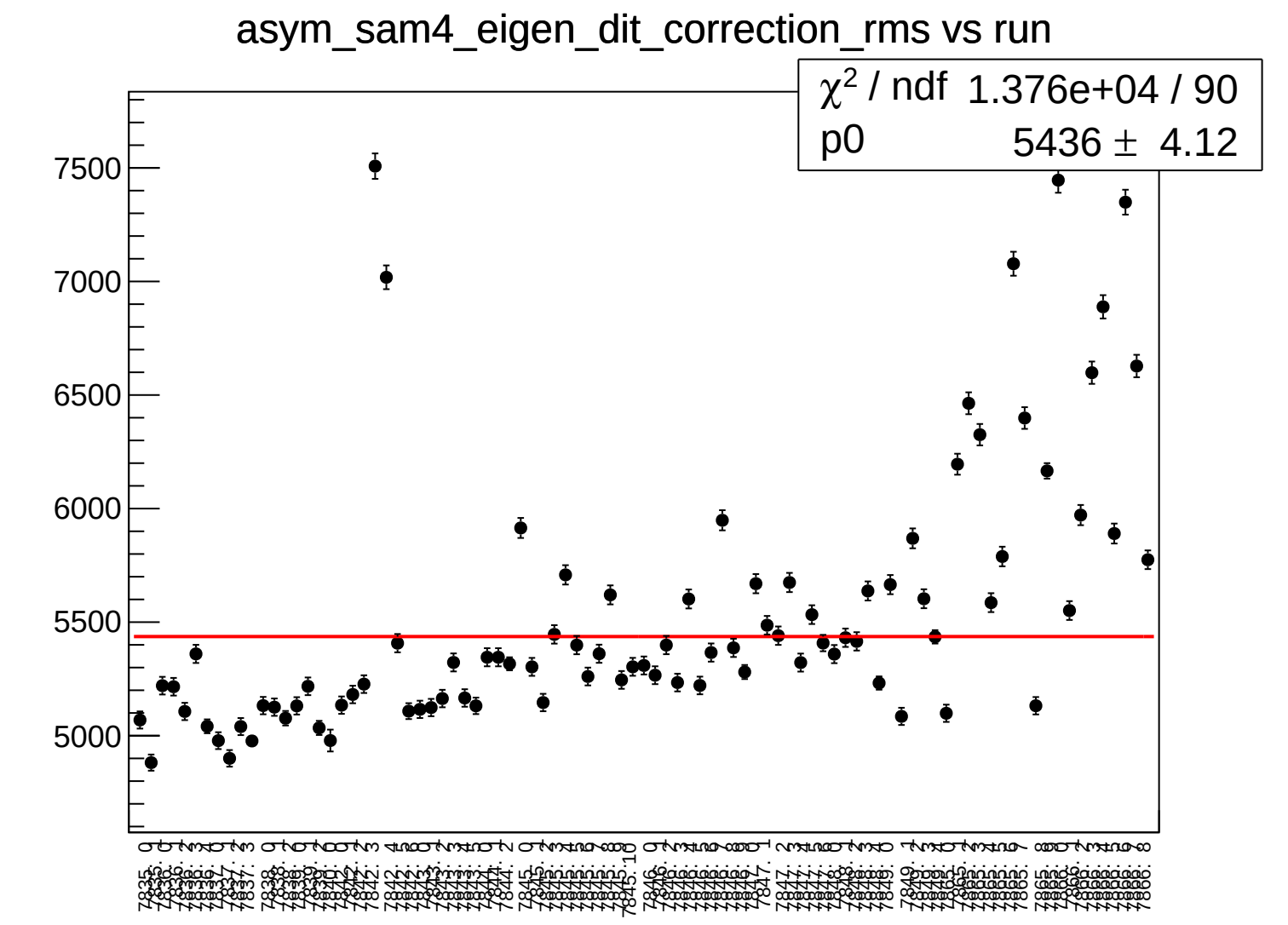

eigen_dit_asym_sam4_mean vs run
χ² / ndf 94.86 / 90
p0 664.1 ± 496.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 62.3
Std Dev 0
3
2
1
0
−1
−2
−3

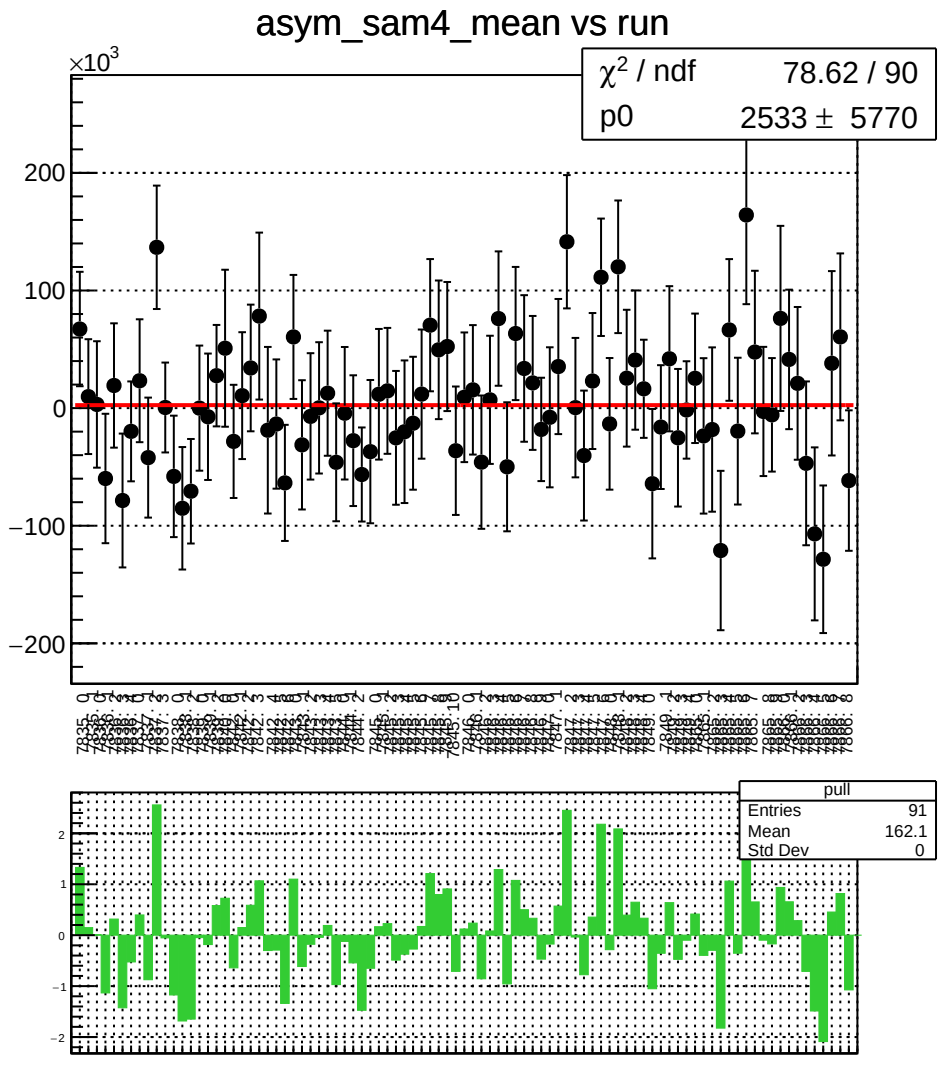

pull1D
Entries 91
Mean −0.02164
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

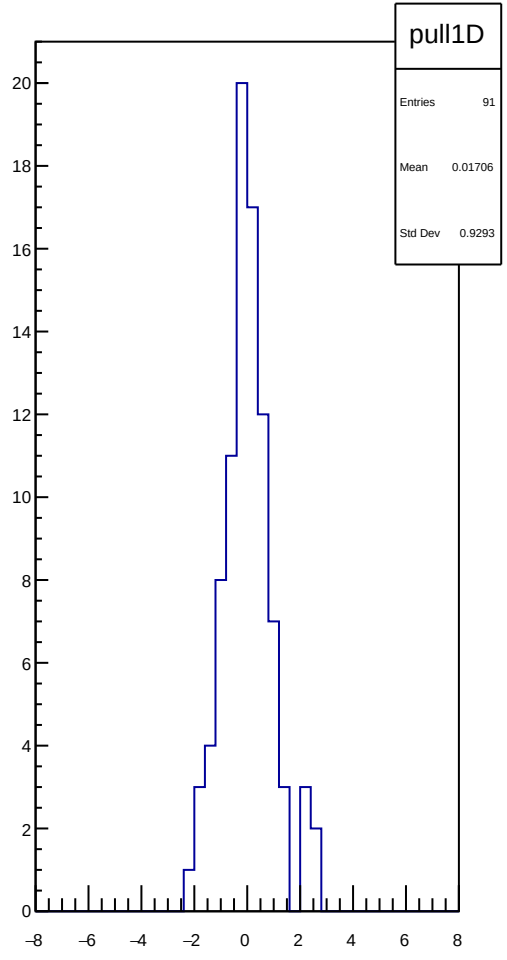

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 5.266e+04 / 90
p0 457.9 ± 0.351
1200
1100
1000
900
800
700
600
500
400

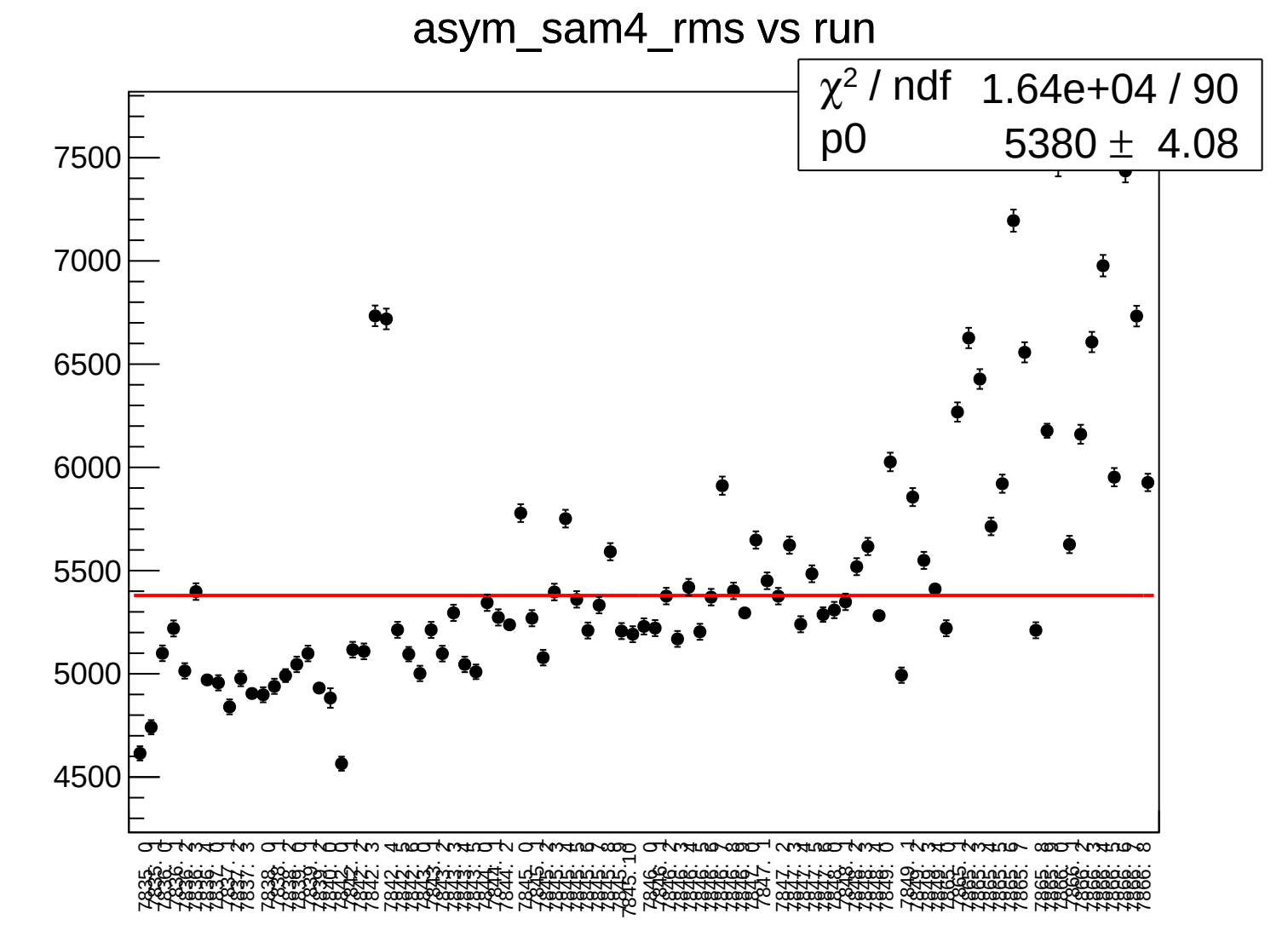

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.24 / 90
p0 −1753 ± 5826
200
100
0
−100
−200
pull
Entries 91
Mean 144.5
Std Dev 0
2
1
0
−1
−2

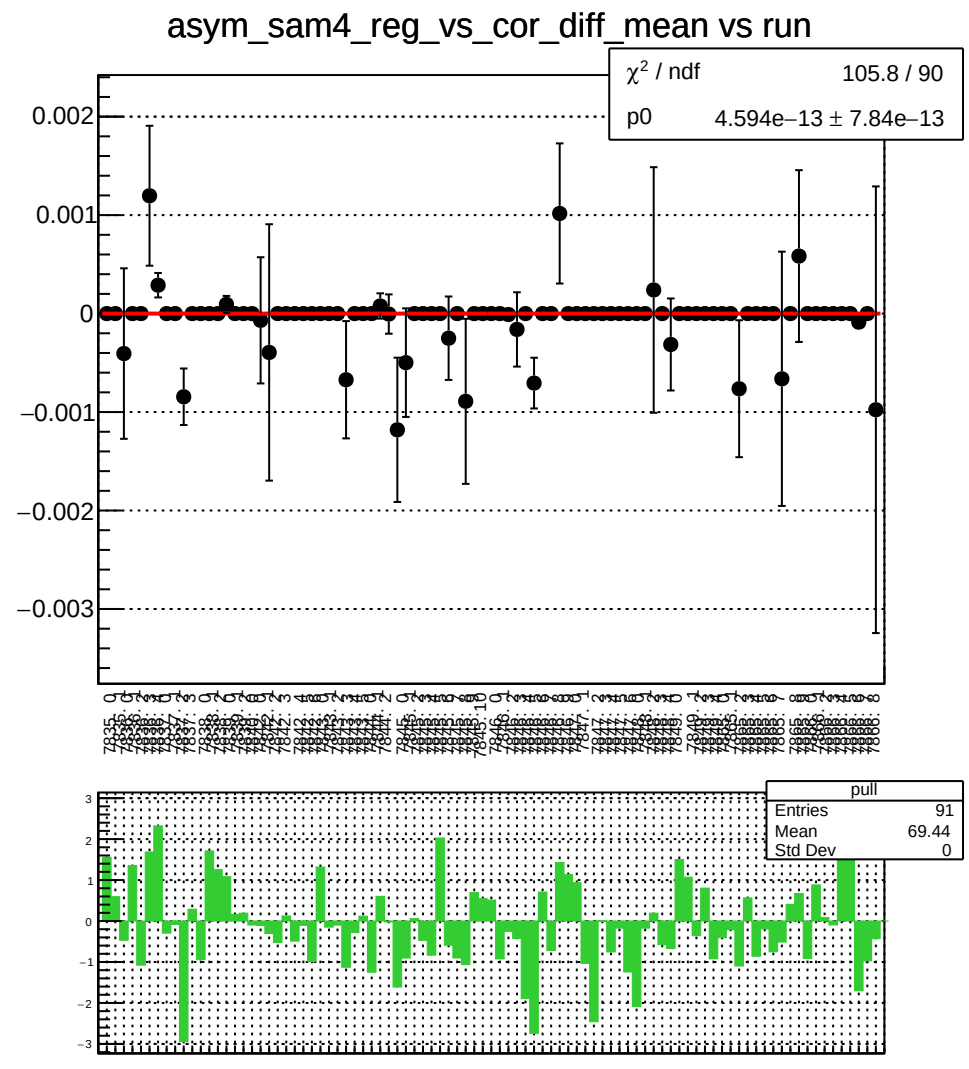

pull1D
Entries 91
Mean −0.02
Std Dev 0.9329
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

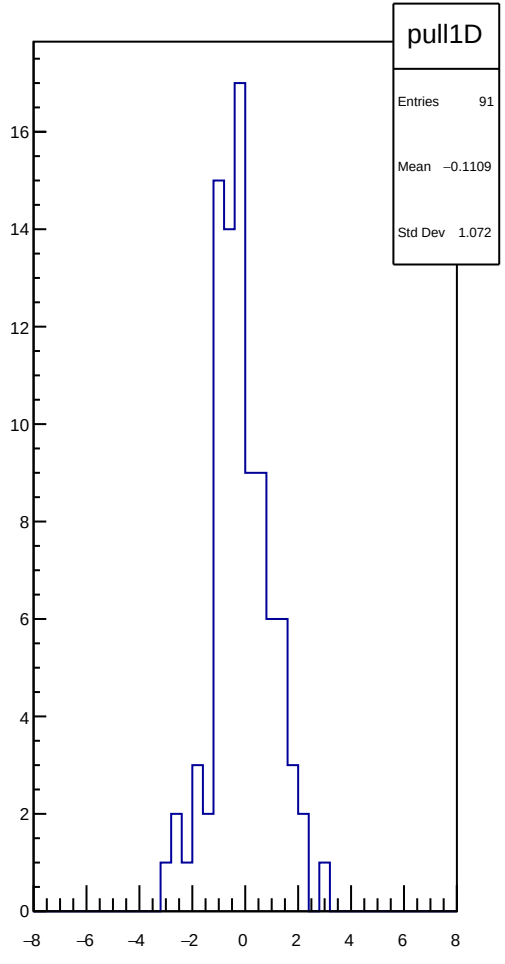

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.376e+04 / 90
p0 5436 ± 4.12
7500
7000
6500
6000
5500
5000

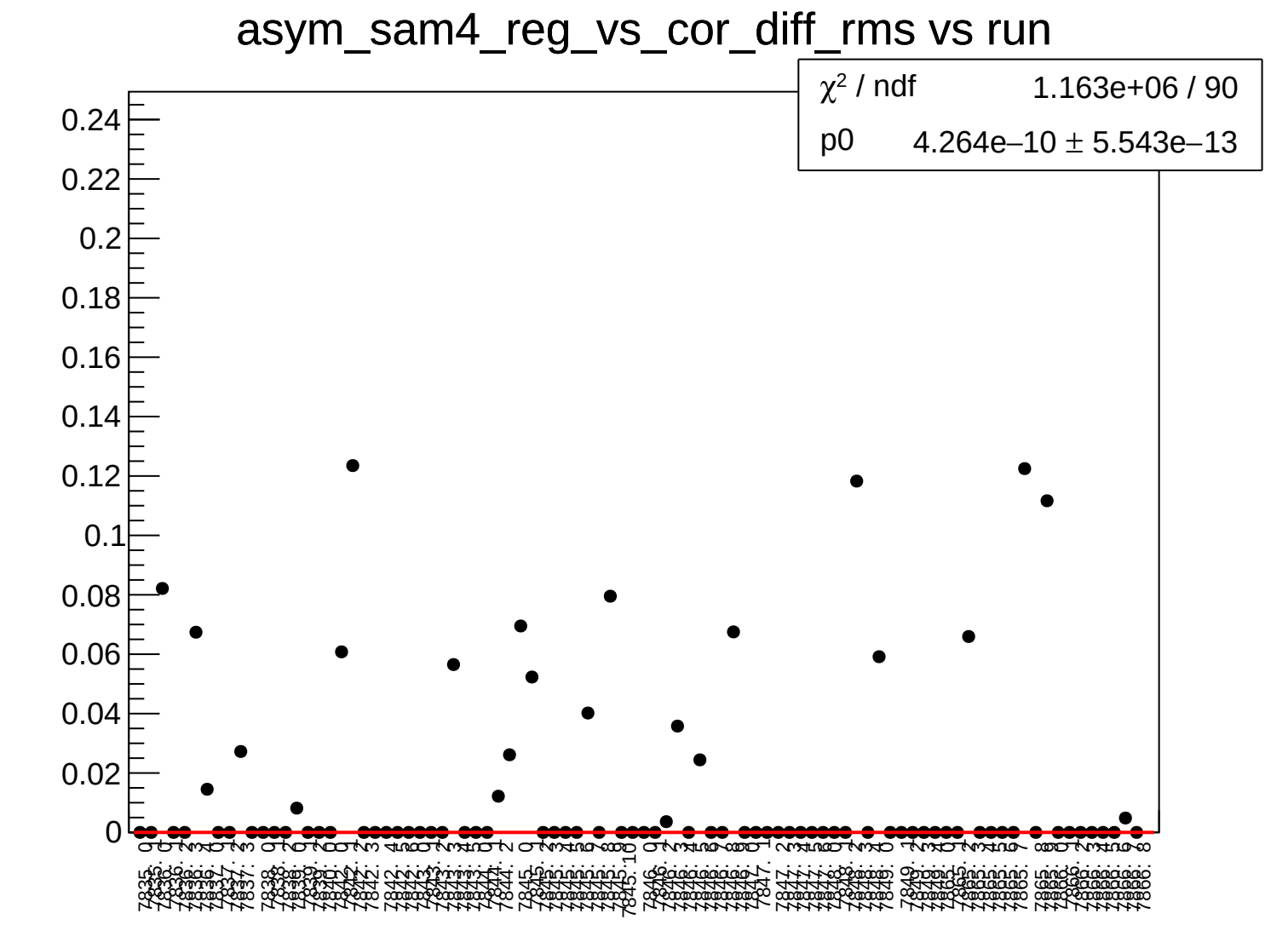

asym_sam4_mean vs run
×10^3
χ² / ndf 78.62 / 90
p0 2533 ± 5770
200
100
0
−100
−200
pull
Entries 91
Mean 162.1
Std Dev 0
2
1
0
−1
−2

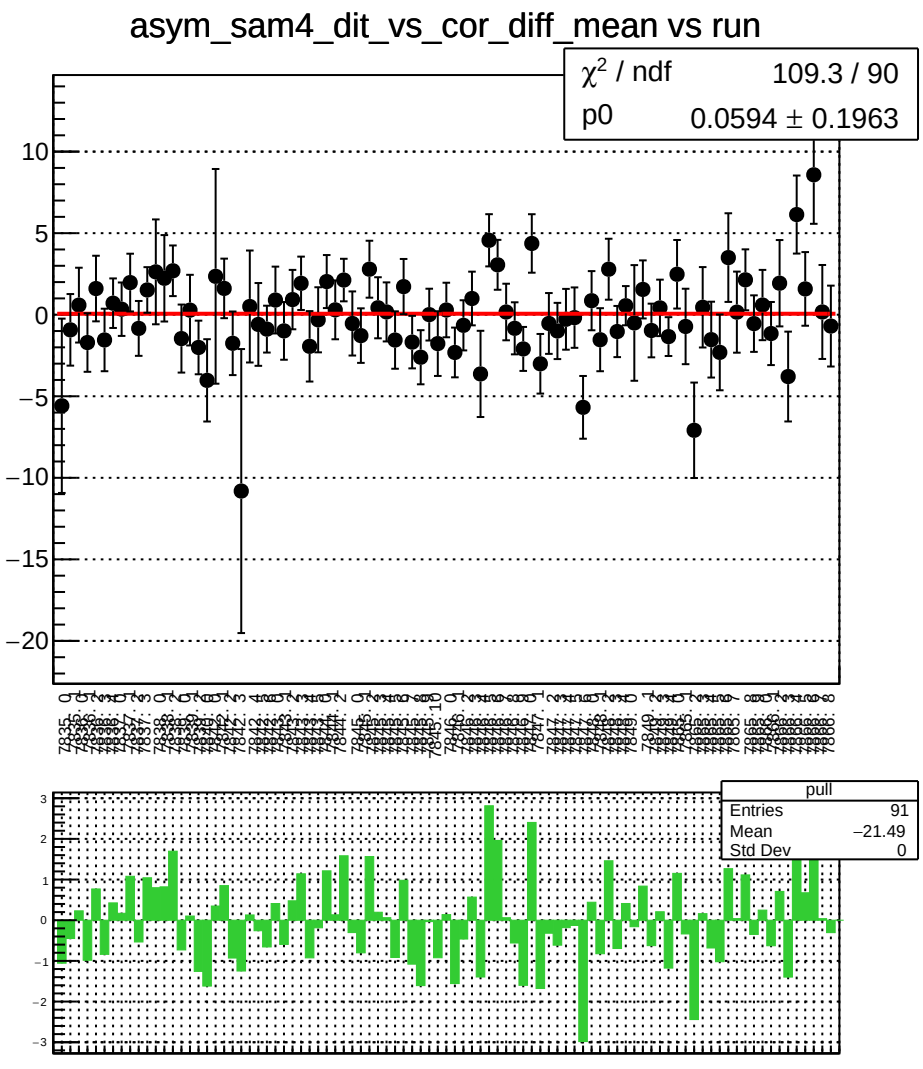

pull1D
Entries 91
Mean 0.01706
Std Dev 0.9293
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

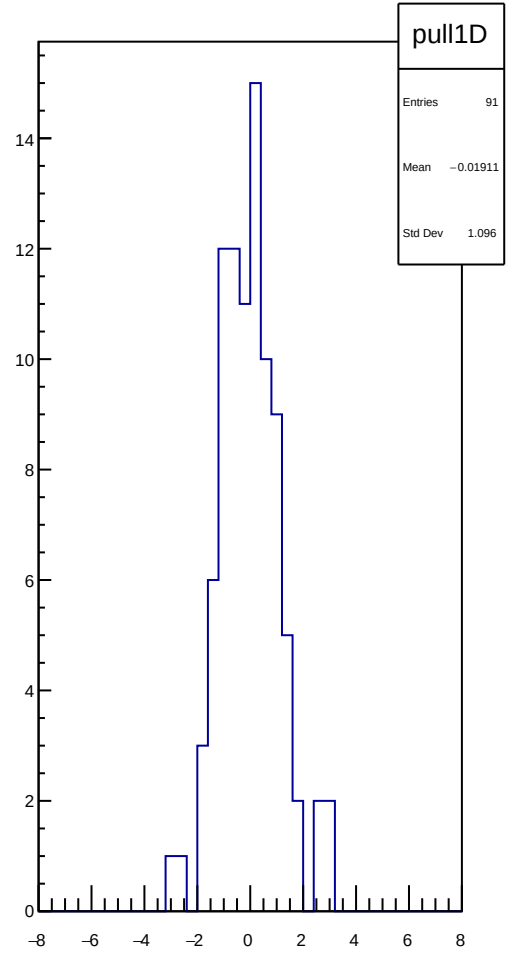

asym_sam4_rms vs run
χ² / ndf 1.64e+04 / 90
p0 5380 ± 4.08
7500
7000
6500
6000
5500
5000
4500

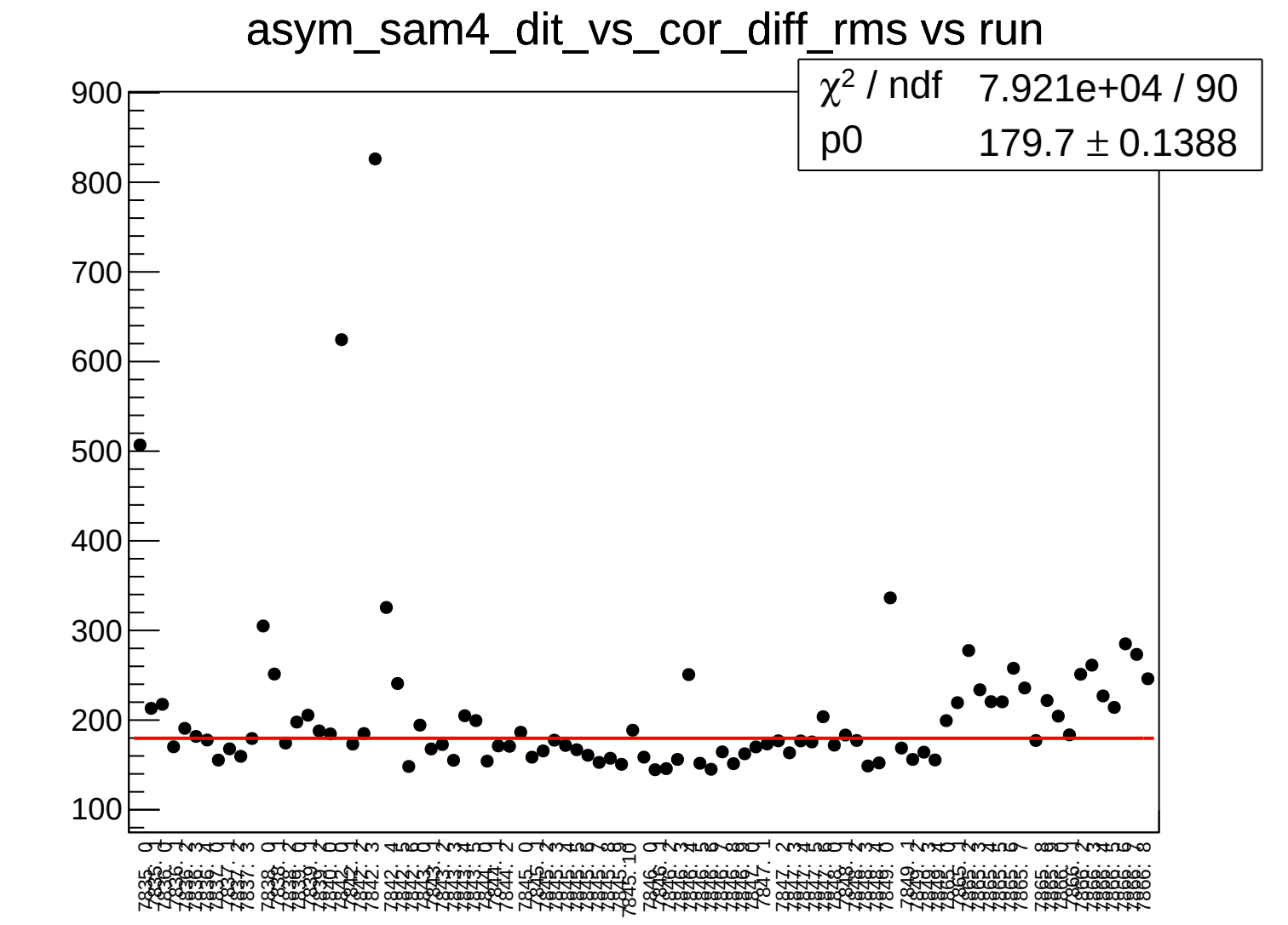

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 90
p0 4.594e−13 ± 7.84e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 91
Mean 69.44
Std Dev 0
3
2
1
0
−1
−2
−3

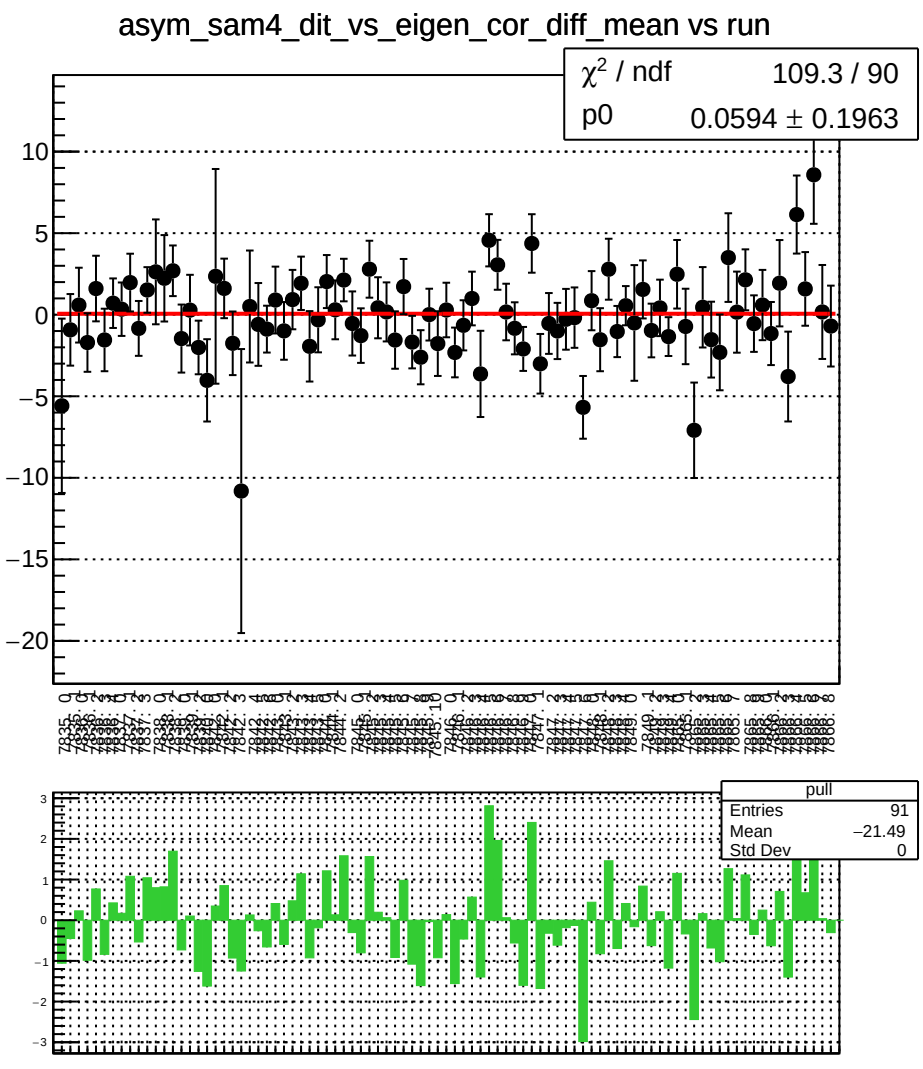

pull1D
Entries 91
Mean −0.1109
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

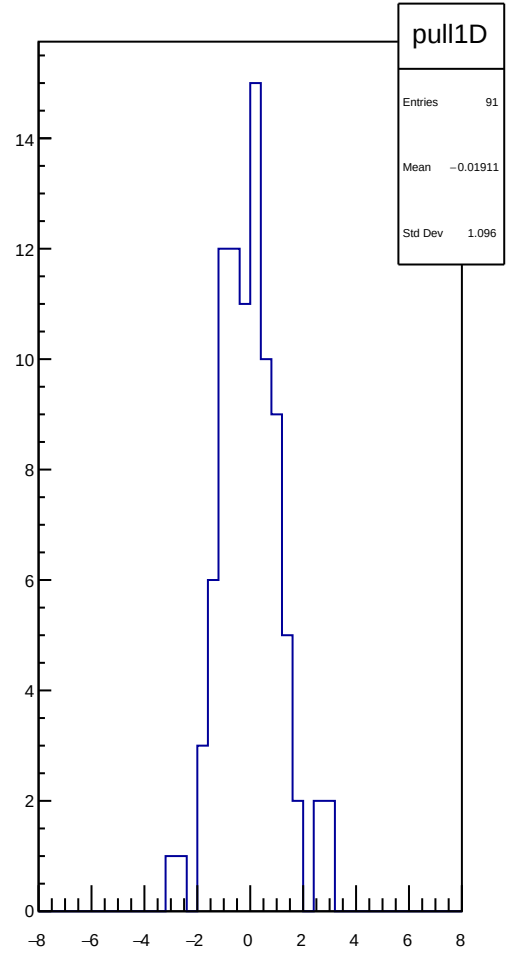

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 90
p0 4.264e−10 ± 5.543e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

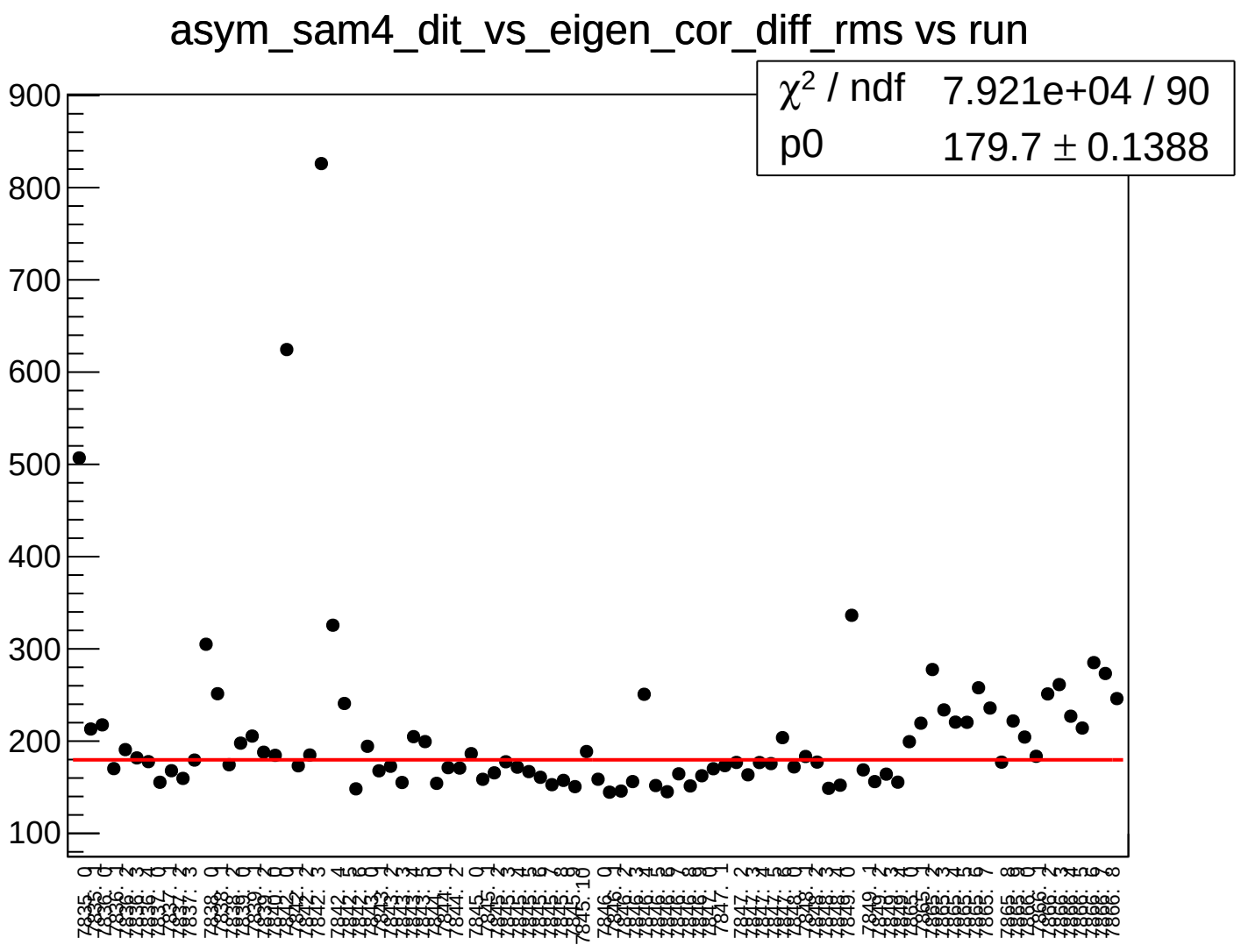

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 90
p0 0.0594 ± 0.1963
pull
Entries 91
Mean −21.49
Std Dev 0

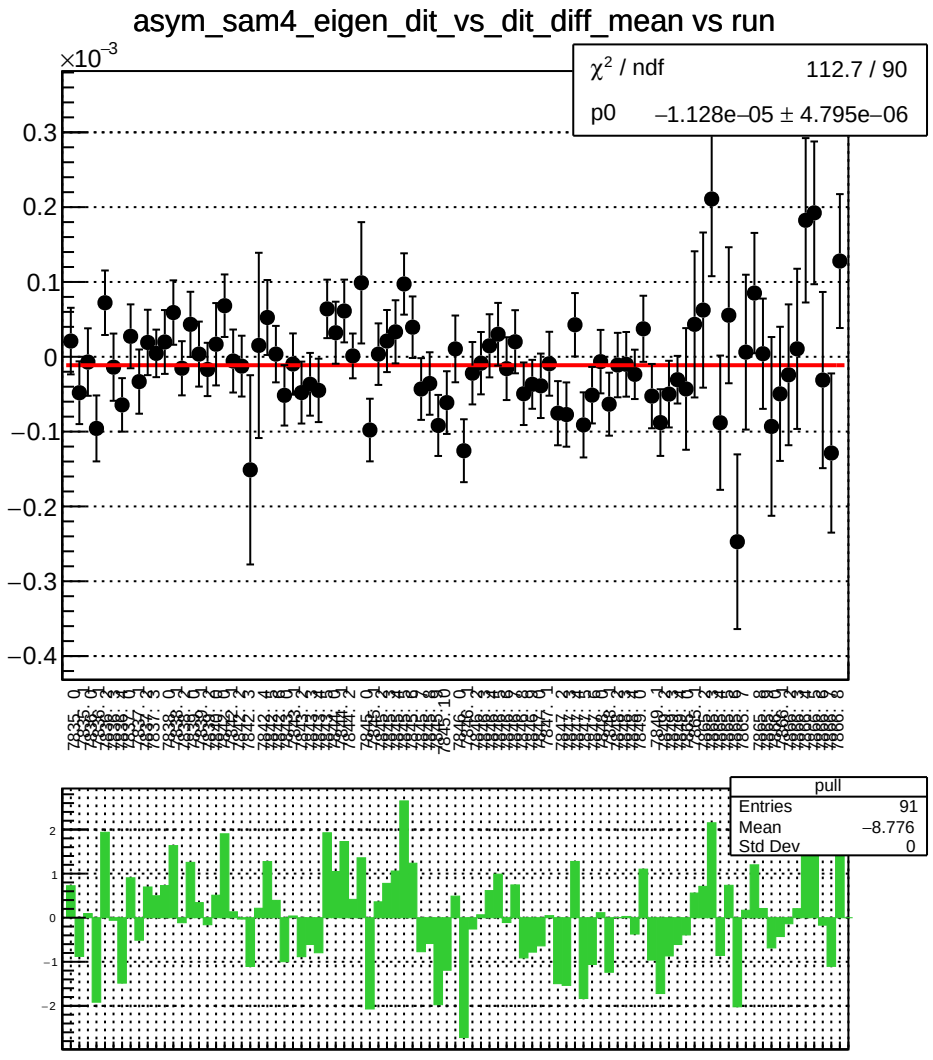

pull1D
Entries 91
Mean −0.01911
Std Dev 1.096

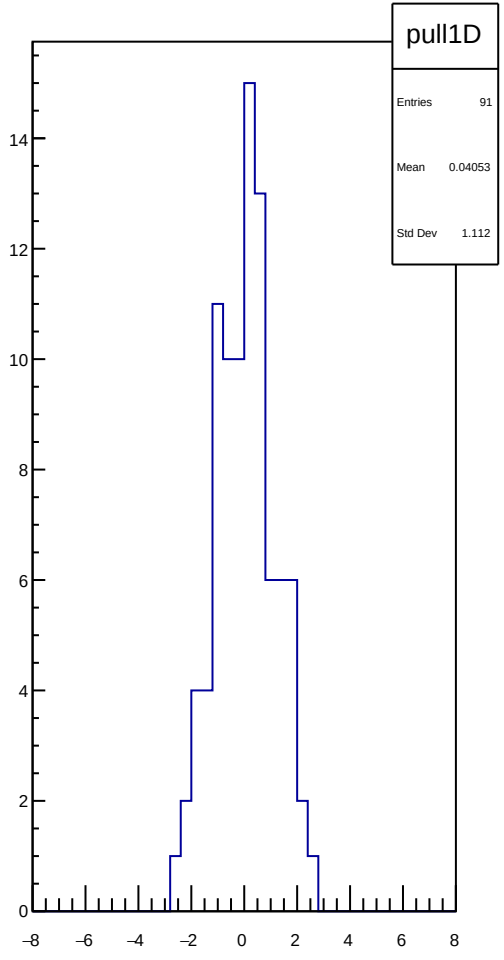

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.921e+04 / 90
p0 179.7 ± 0.1388
900
800
700
600
500
400
300
200
100

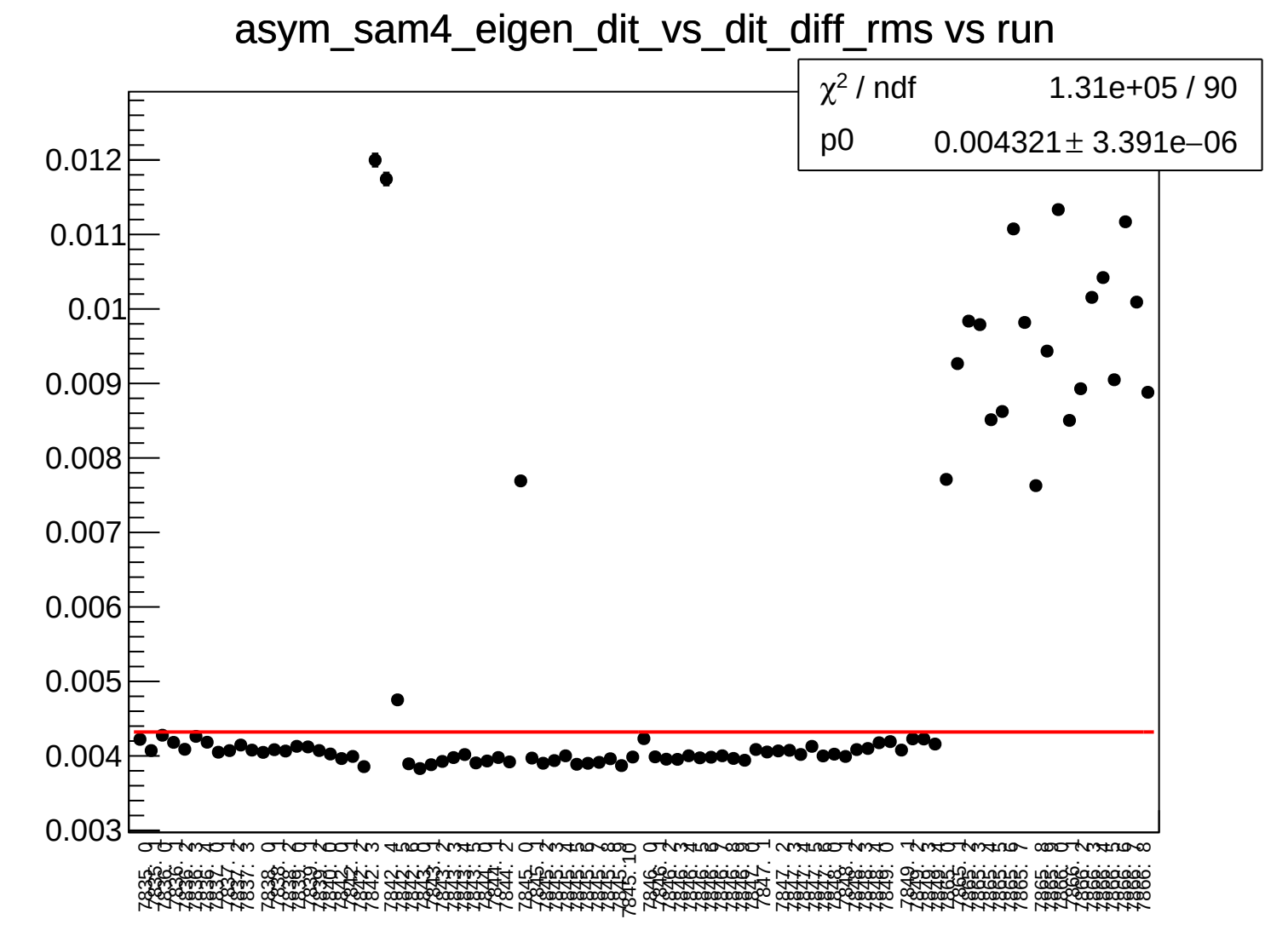

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 90
p0 0.0594 ± 0.1963
pull
Entries 91
Mean −21.49
Std Dev 0

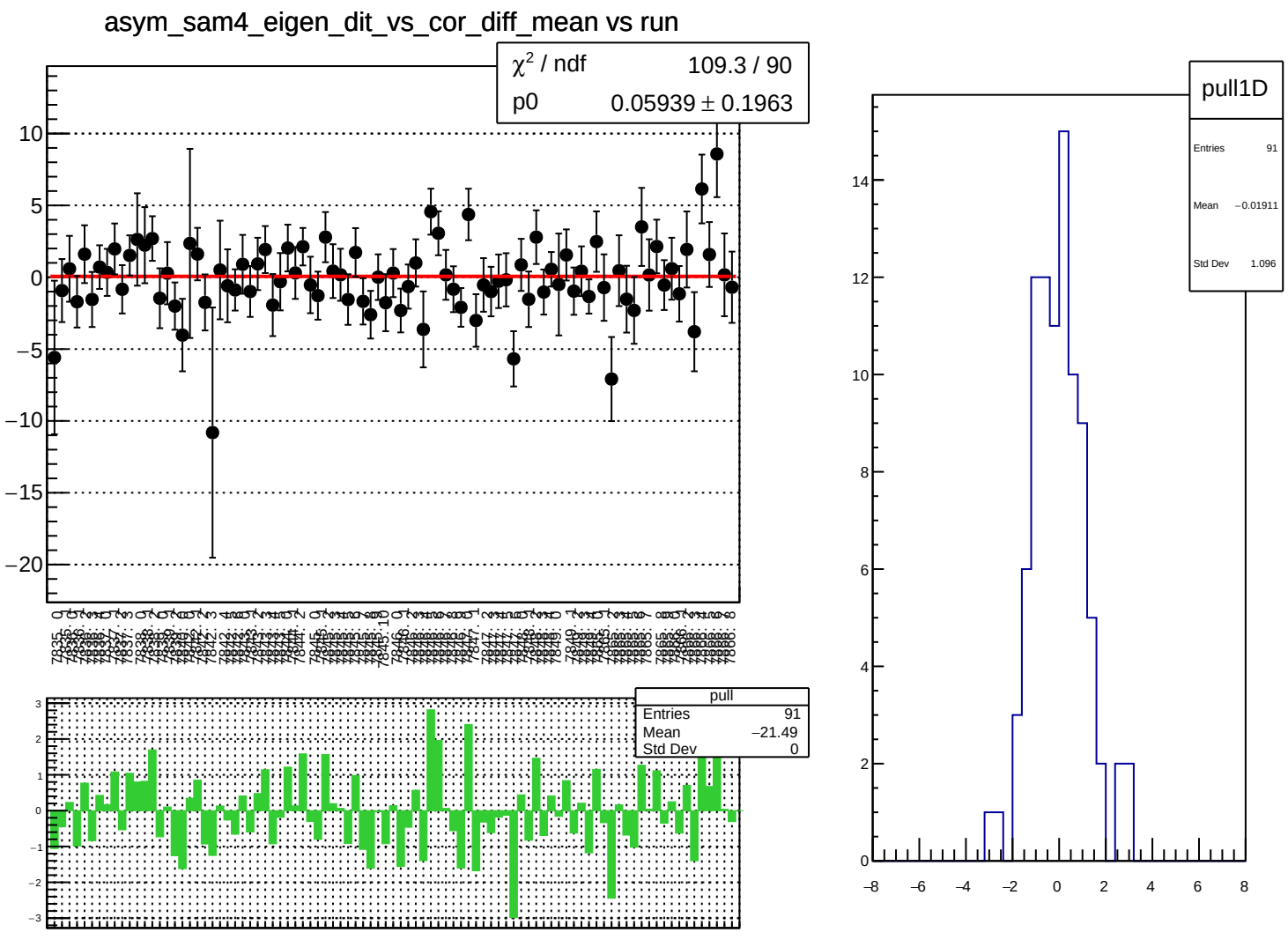

pull1D
Entries 91
Mean −0.01911
Std Dev 1.096

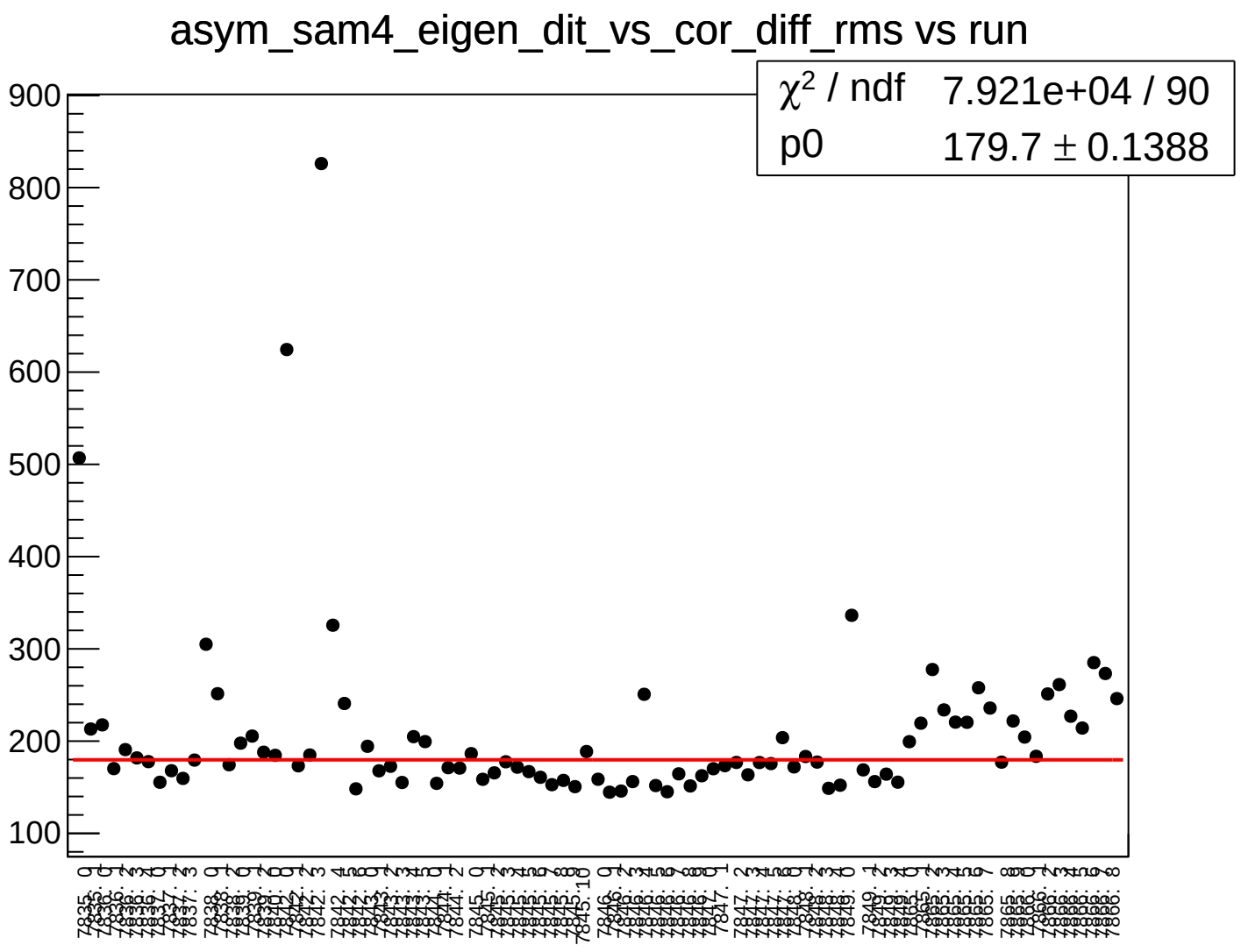

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.921e+04 / 90
p0 179.7 ± 0.1388
900
800
700
600
500
400
300
200
100

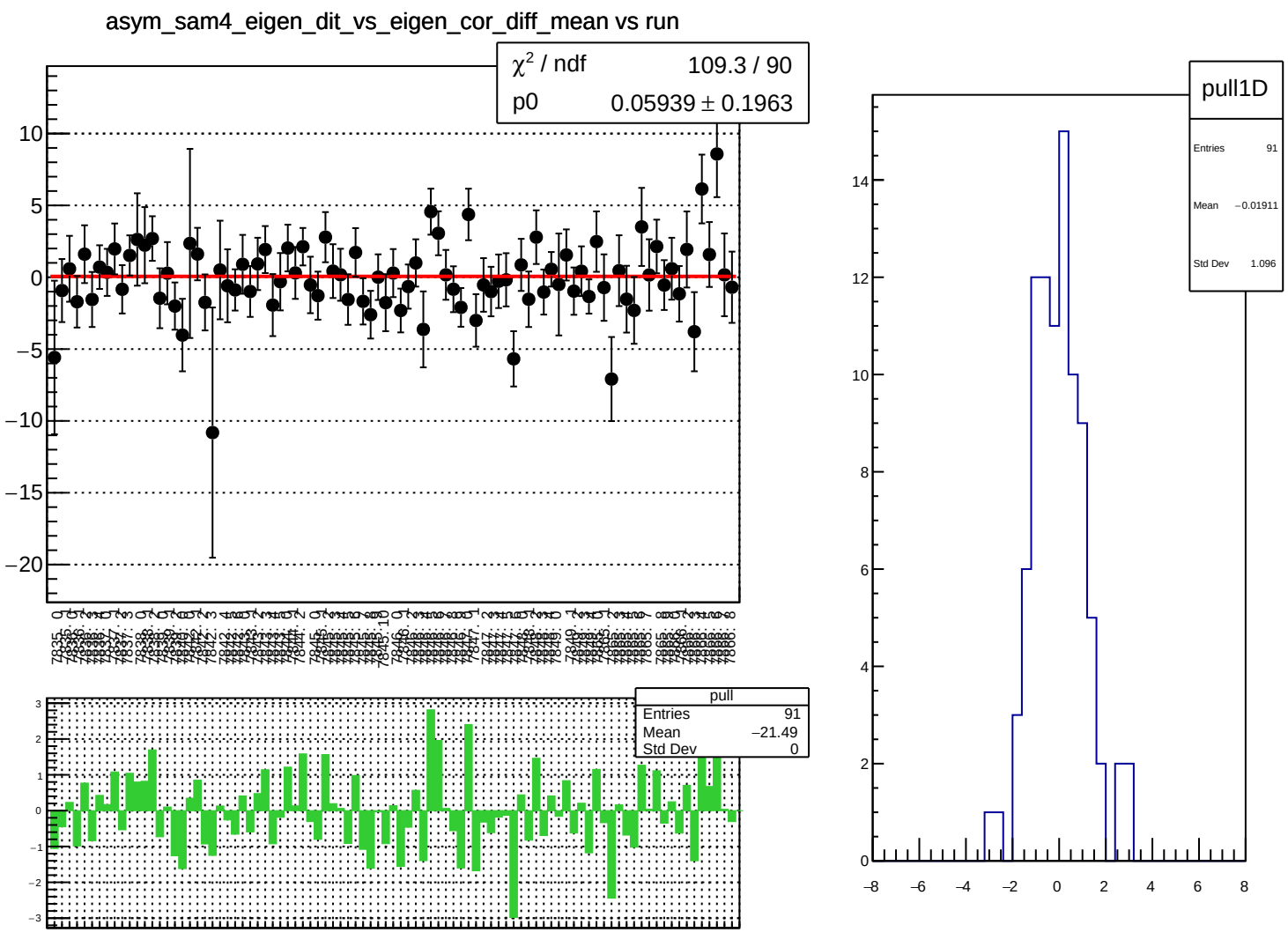

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 112.7 / 90
p0 −1.128e−05 ± 4.795e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 91
Mean −8.776
Std Dev 0
2
1
0
−1
−2

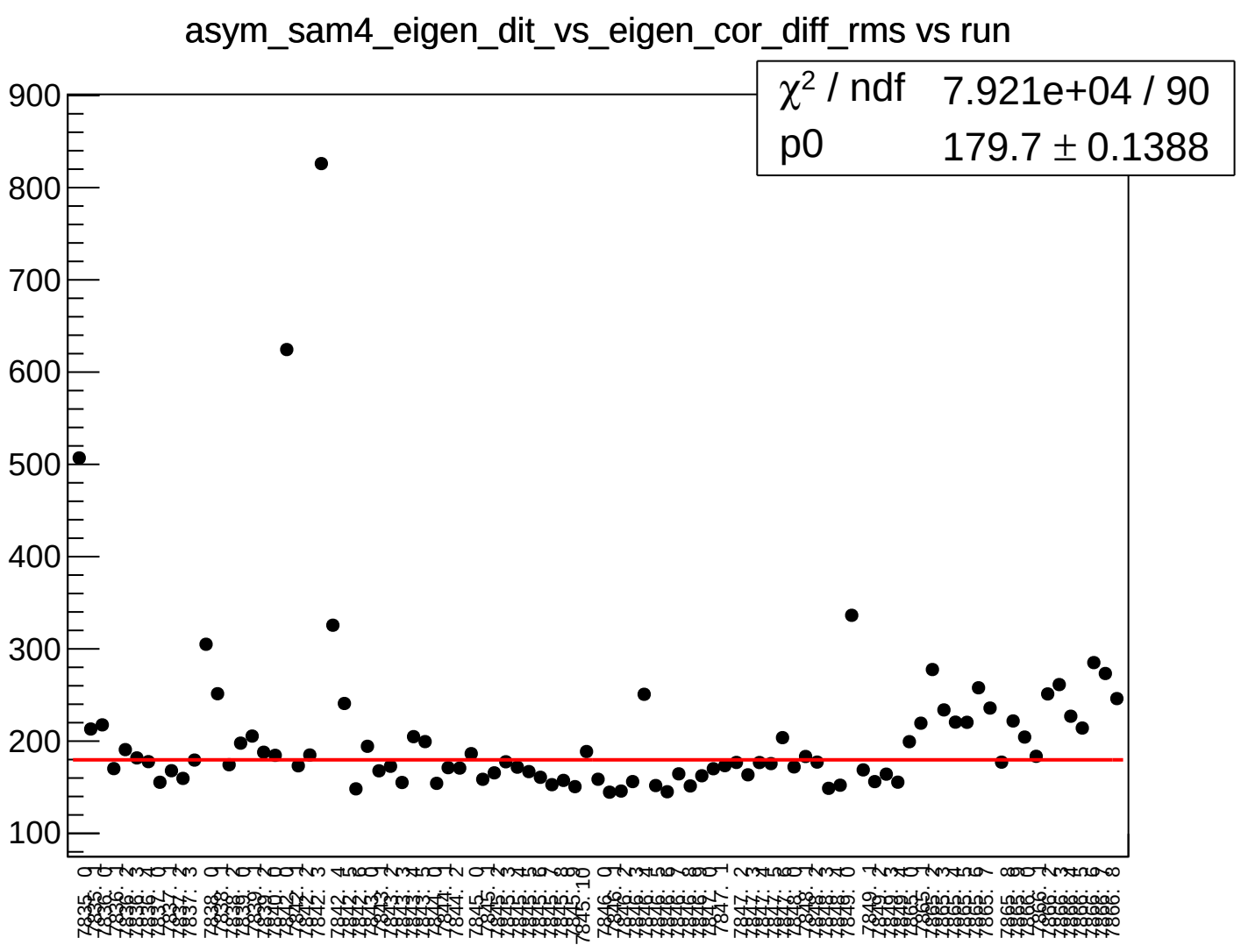

pull1D
Entries 91
Mean 0.04053
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

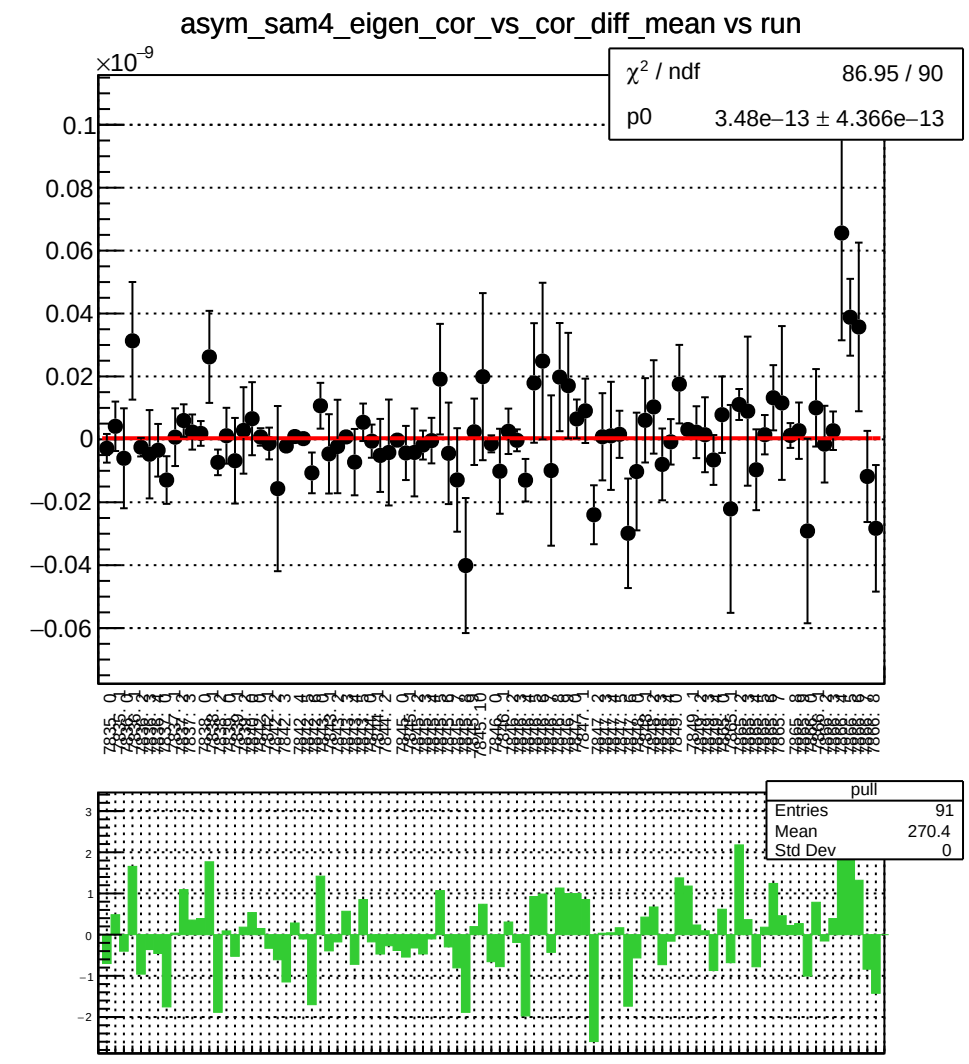

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.31e+05 / 90
p0 0.004321 ± 3.391e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

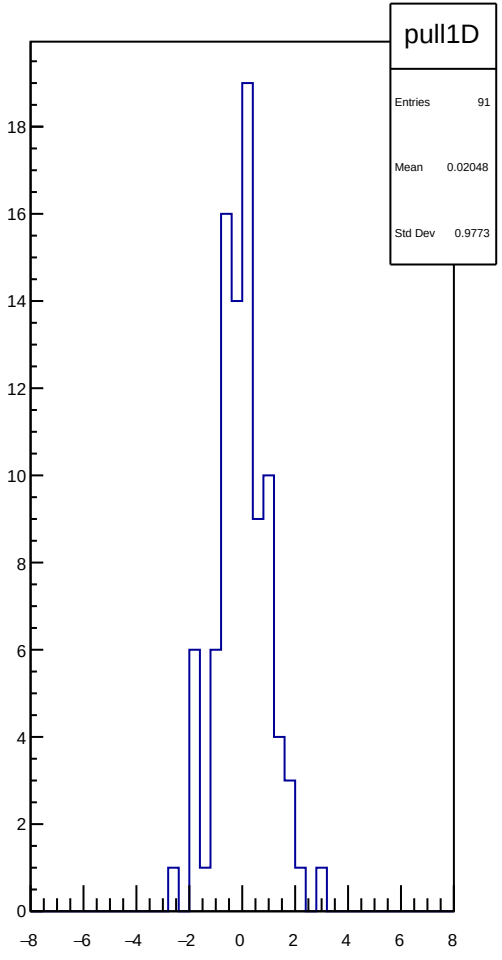

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 90
p0 0.05939 ± 0.1963
pull
Entries 91
Mean −21.49
Std Dev 0
pull1D
Entries 91
Mean −0.01911
Std Dev 1.096

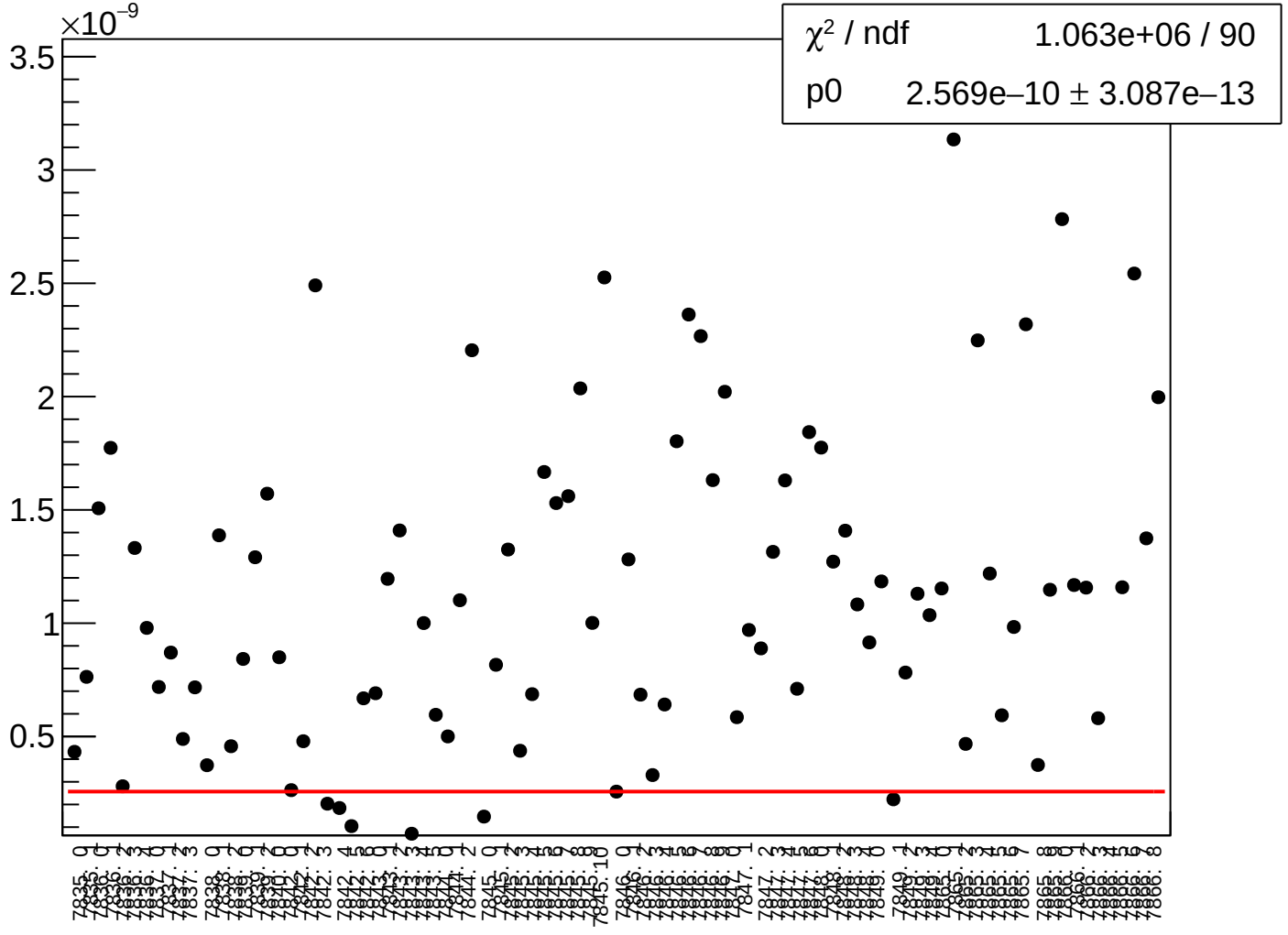

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.921e+04 / 90
p0 179.7 ± 0.1388
900
800
700
600
500
400
300
200
100

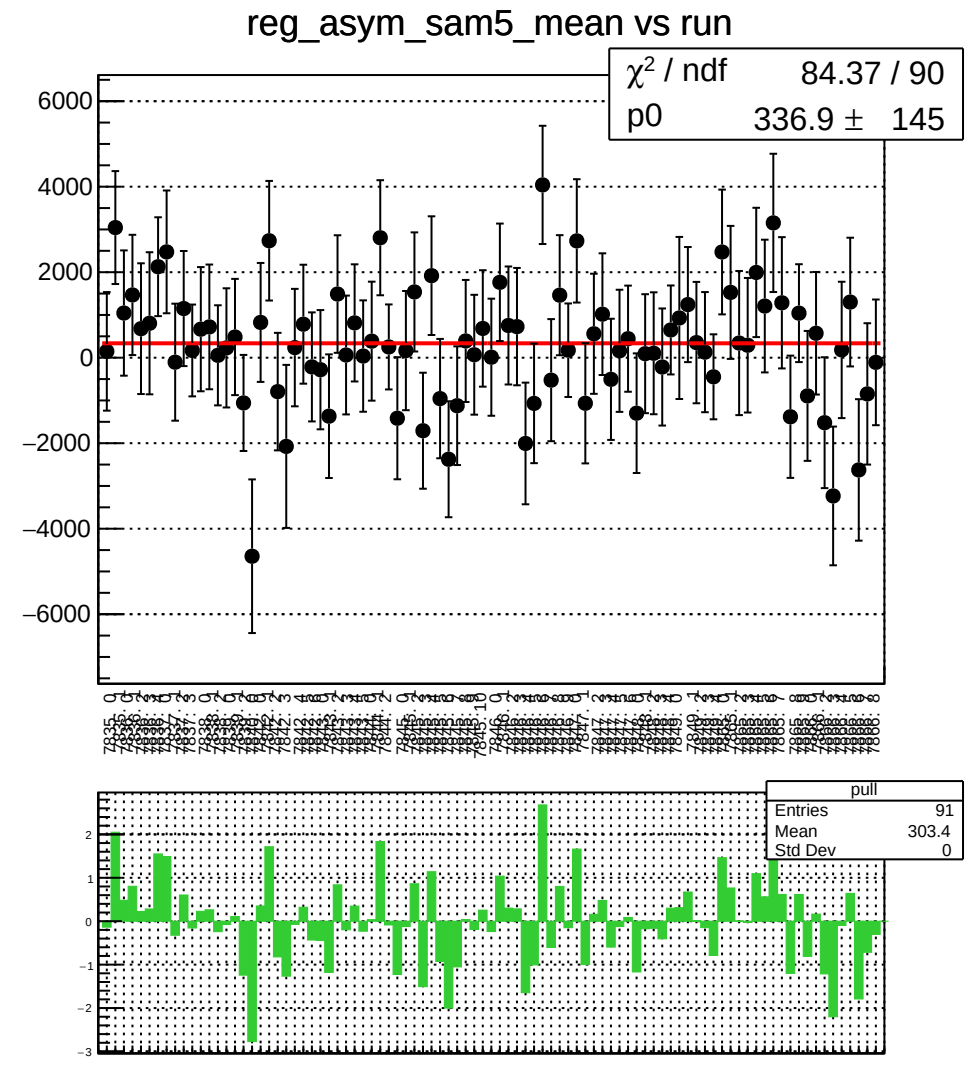

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 90
p0 0.05939 ± 0.1963
pull
Entries 91
Mean −21.49
Std Dev 0
pull1D
Entries 91
Mean −0.01911
Std Dev 1.096

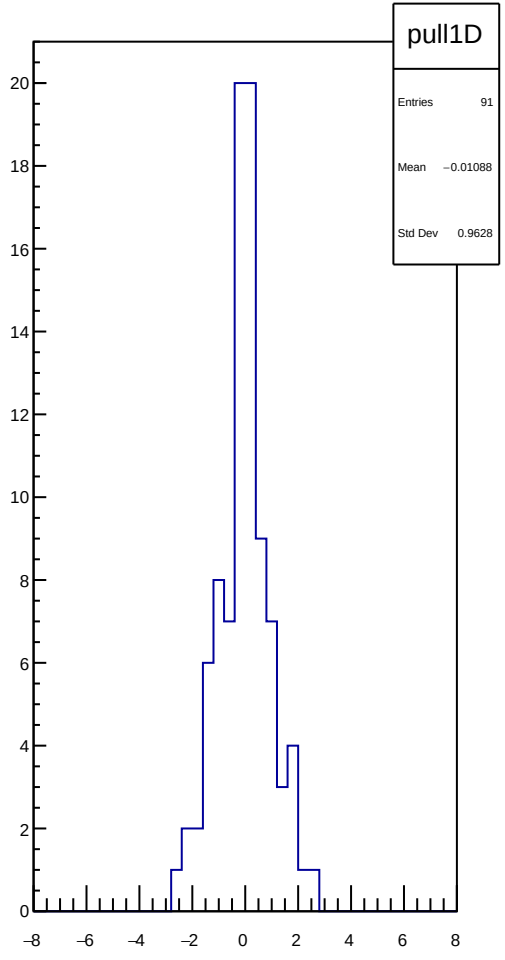

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.921e+04 / 90
p0 179.7 ± 0.1388
900
800
700
600
500
400
300
200
100

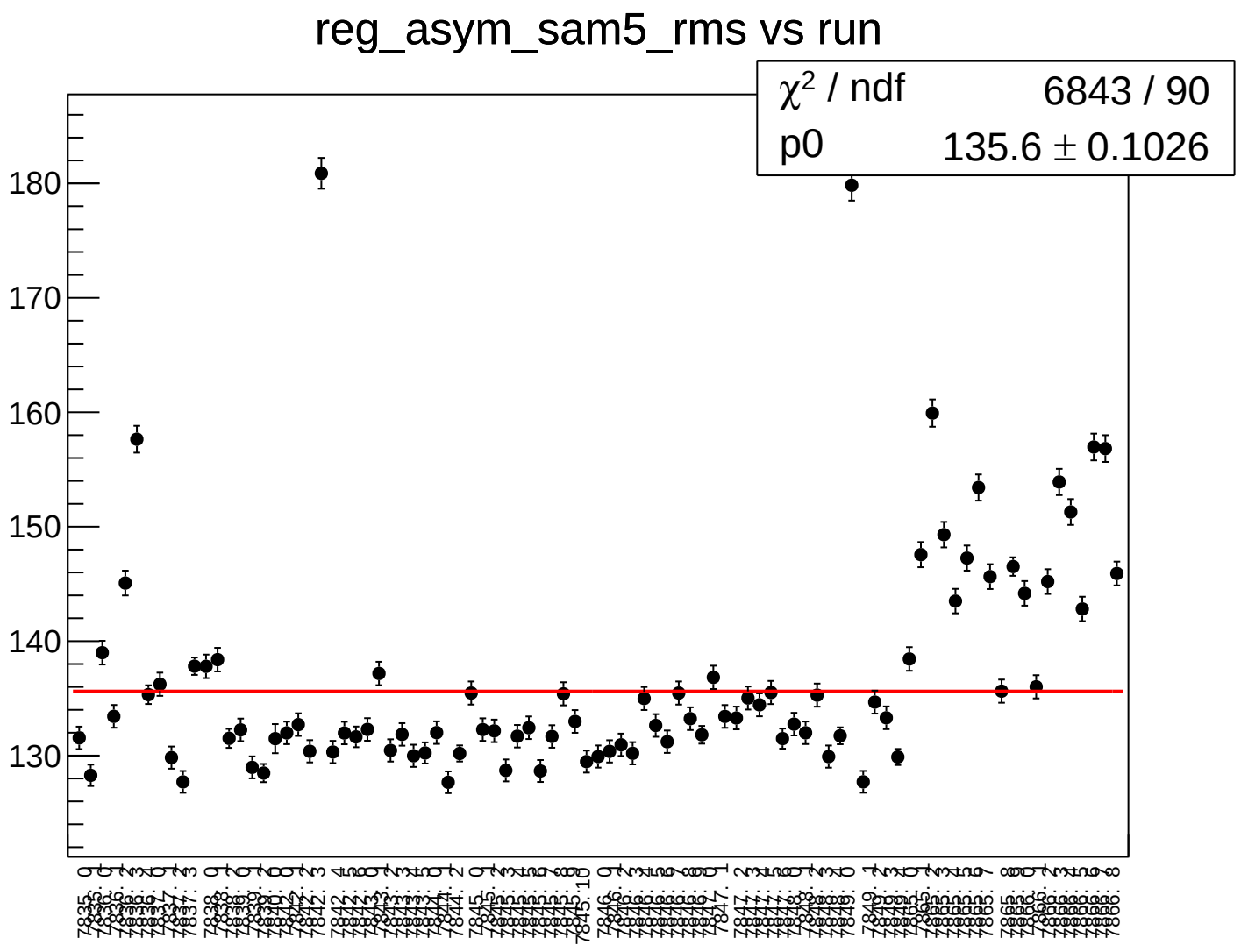

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.95 / 90
p0 3.48e−13 ± 4.366e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 270.4
Std Dev 0
3
2
1
0
−1
−2

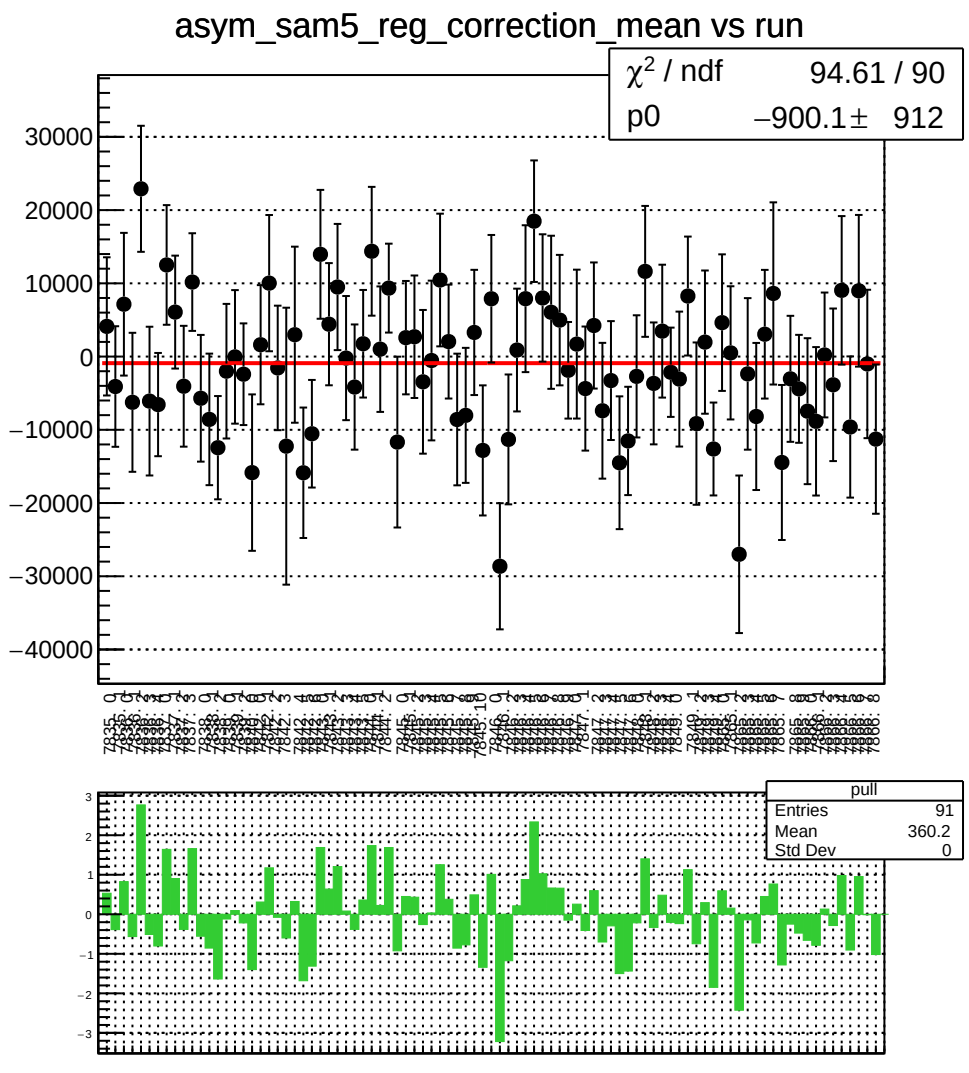

pull1D
Entries 91
Mean 0.02048
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

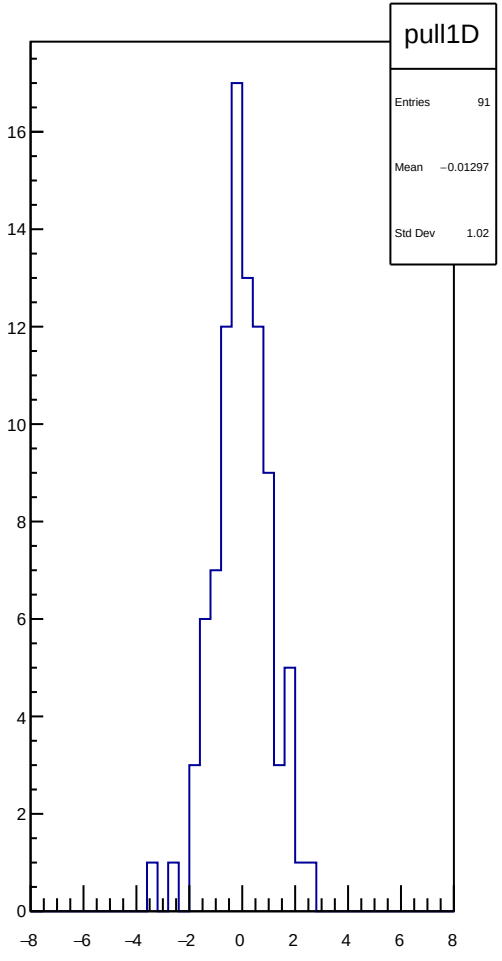

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.063e+06 / 90
p0 2.569e−10 ± 3.087e−13
3.5
3
2.5
2
1.5
1
0.5

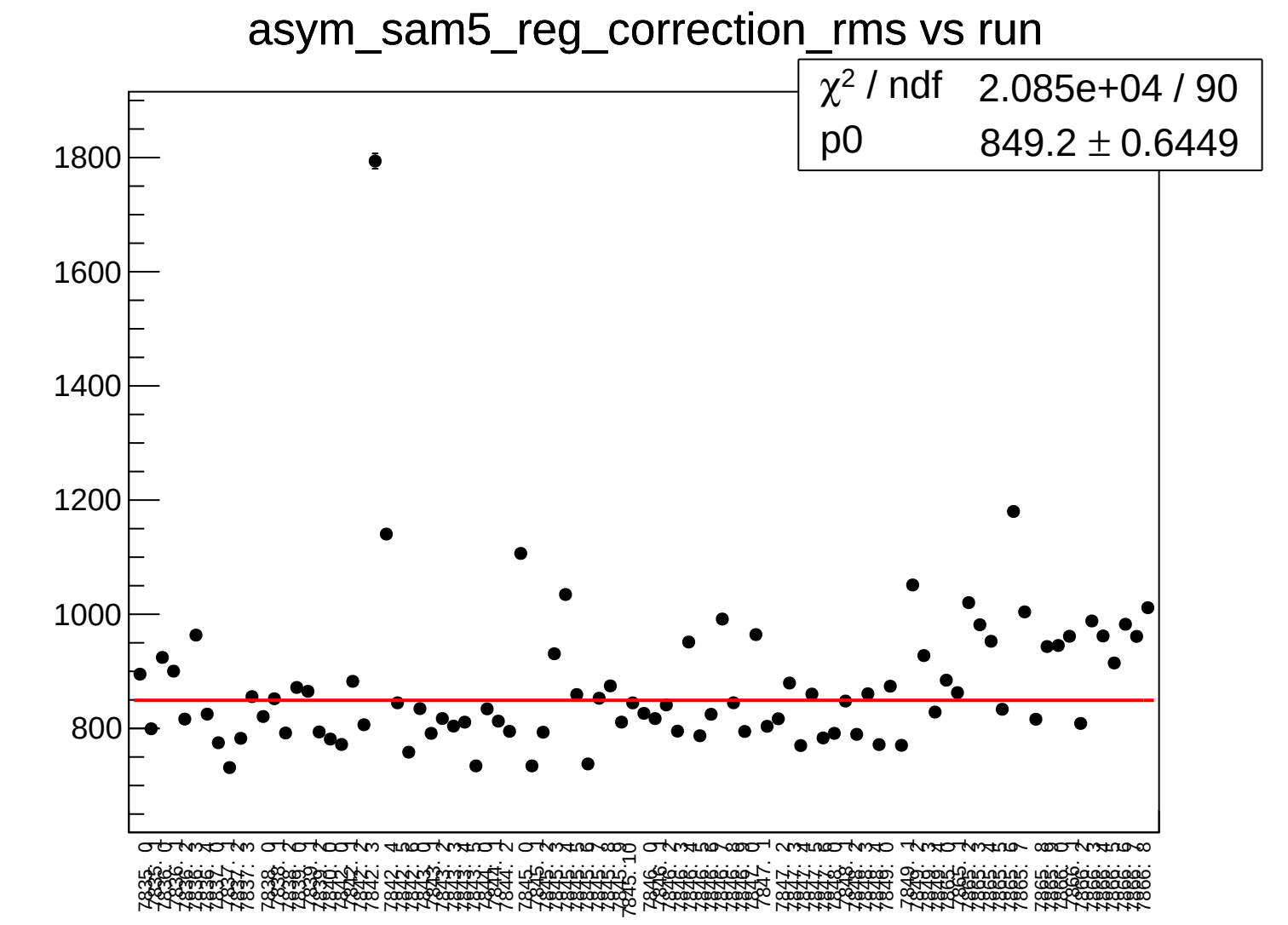

reg_asym_sam5_mean vs run
χ² / ndf 84.37 / 90
p0 336.9 ± 145
pull
Entries 91
Mean 303.4
Std Dev 0

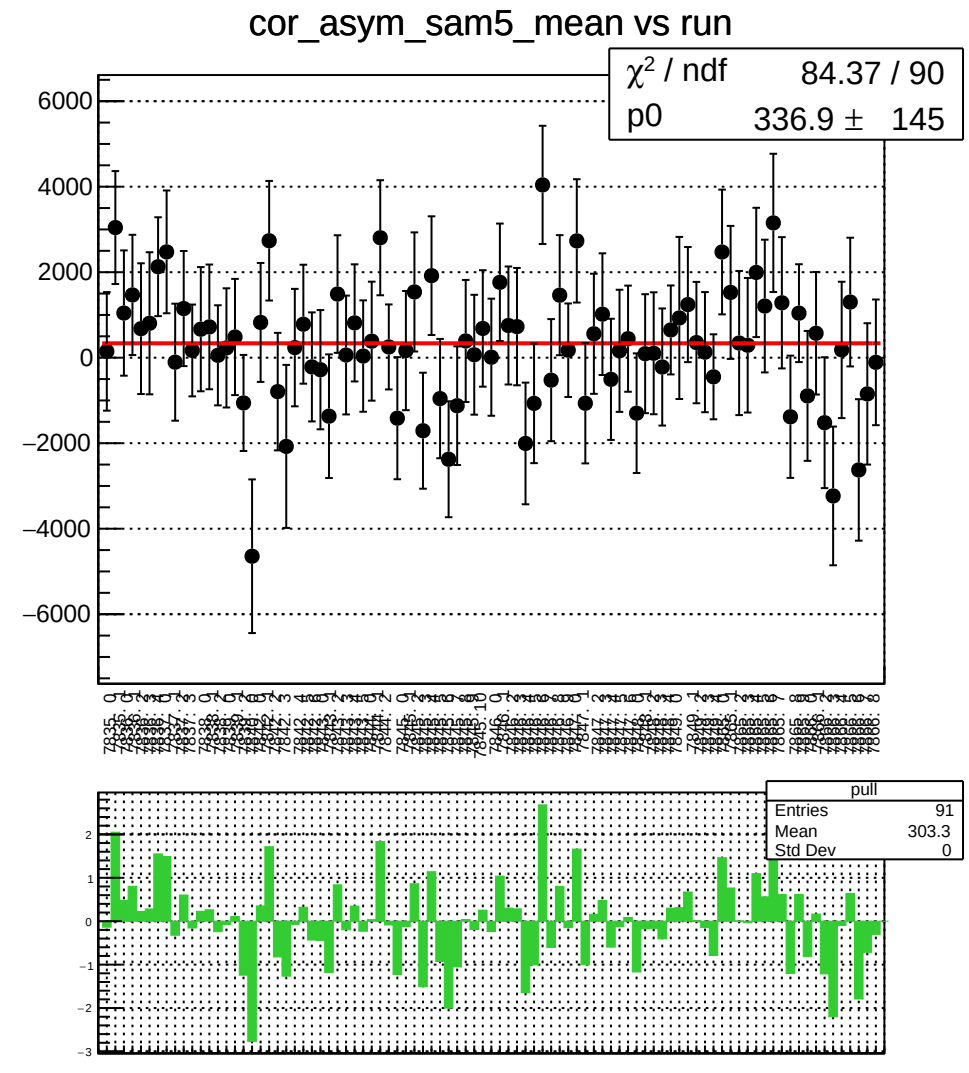

pull1D
Entries 91
Mean −0.01088
Std Dev 0.9628

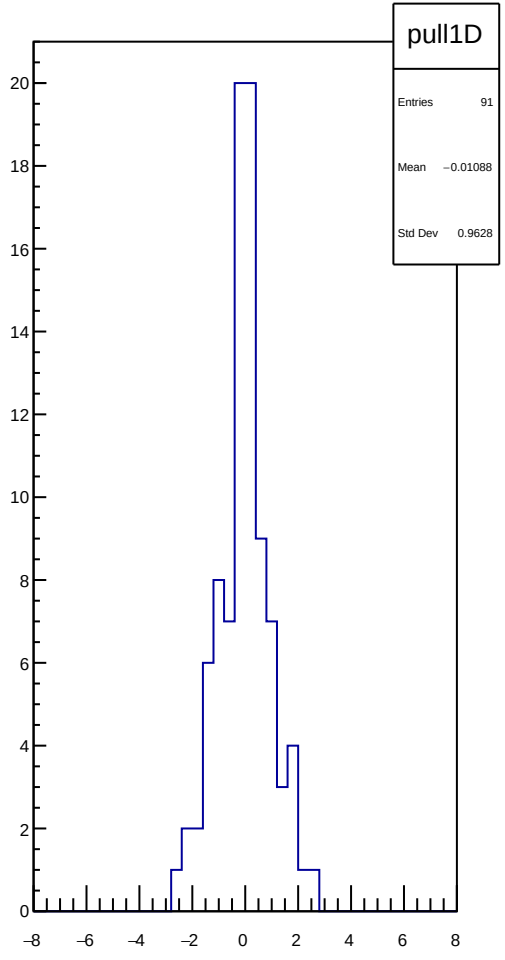

reg_asym_sam5_rms vs run
χ² / ndf 6843 / 90
p0 135.6 ± 0.1026
180
170
160
150
140
130

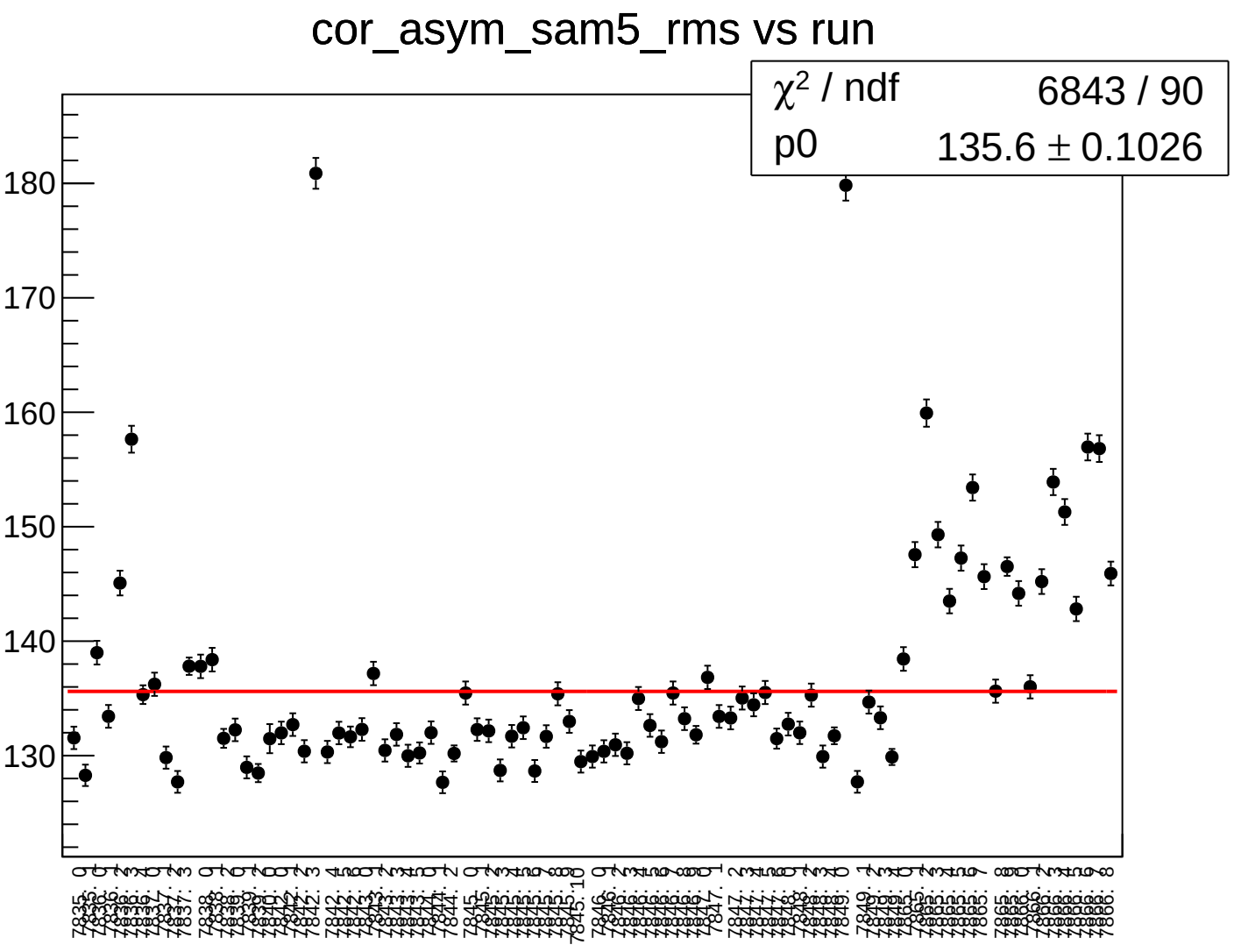

asym_sam5_reg_correction_mean vs run
χ² / ndf 94.61 / 90
p0 −900.1± 912
pull
Entries 91
Mean 360.2
Std Dev 0

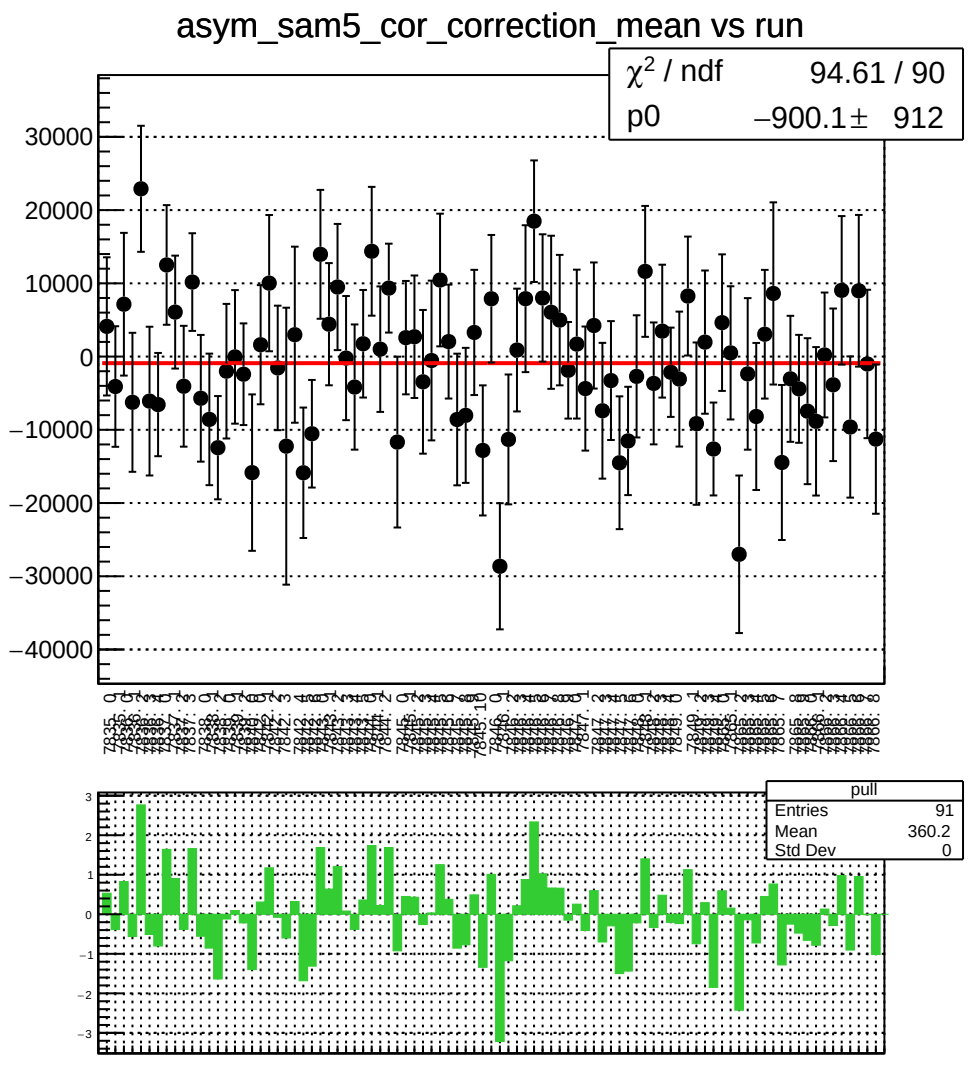

pull1D
Entries 91
Mean −0.01297
Std Dev 1.02

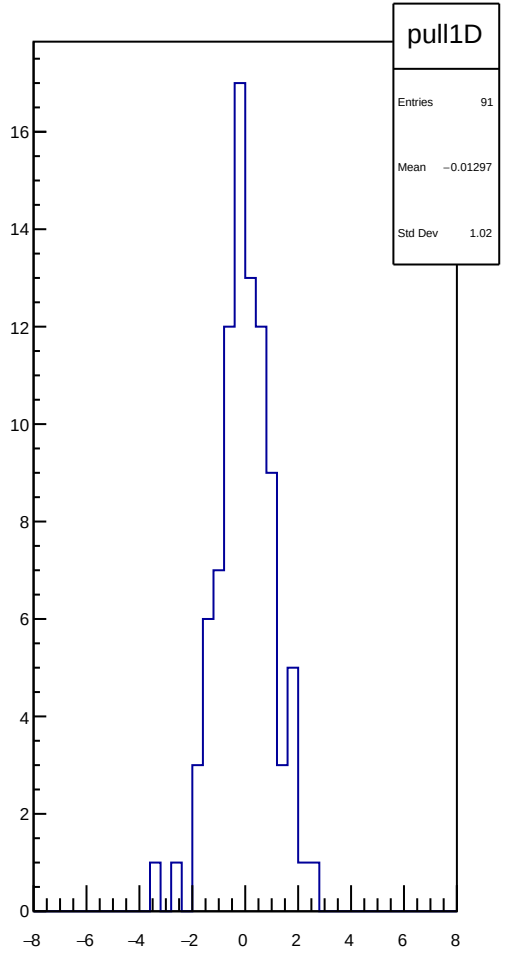

asym_sam5_reg_correction_rms vs run
χ² / ndf 2.085e+04 / 90
p0 849.2 ± 0.6449
1800
1600
1400
1200
1000
800

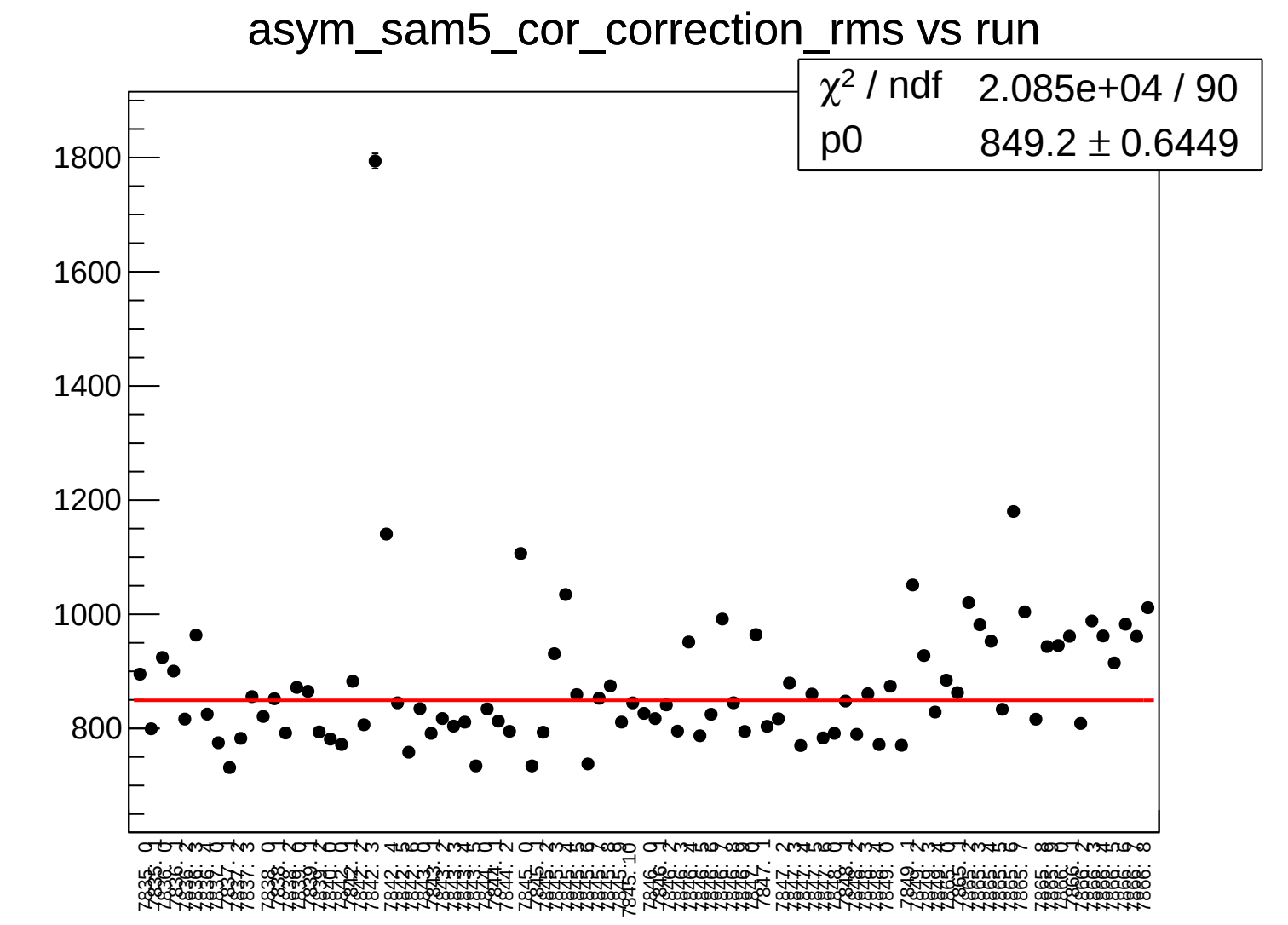

cor_asym_sam5_mean vs run
χ² / ndf 84.37 / 90
p0 336.9 ± 145
pull
Entries 91
Mean 303.3
Std Dev 0

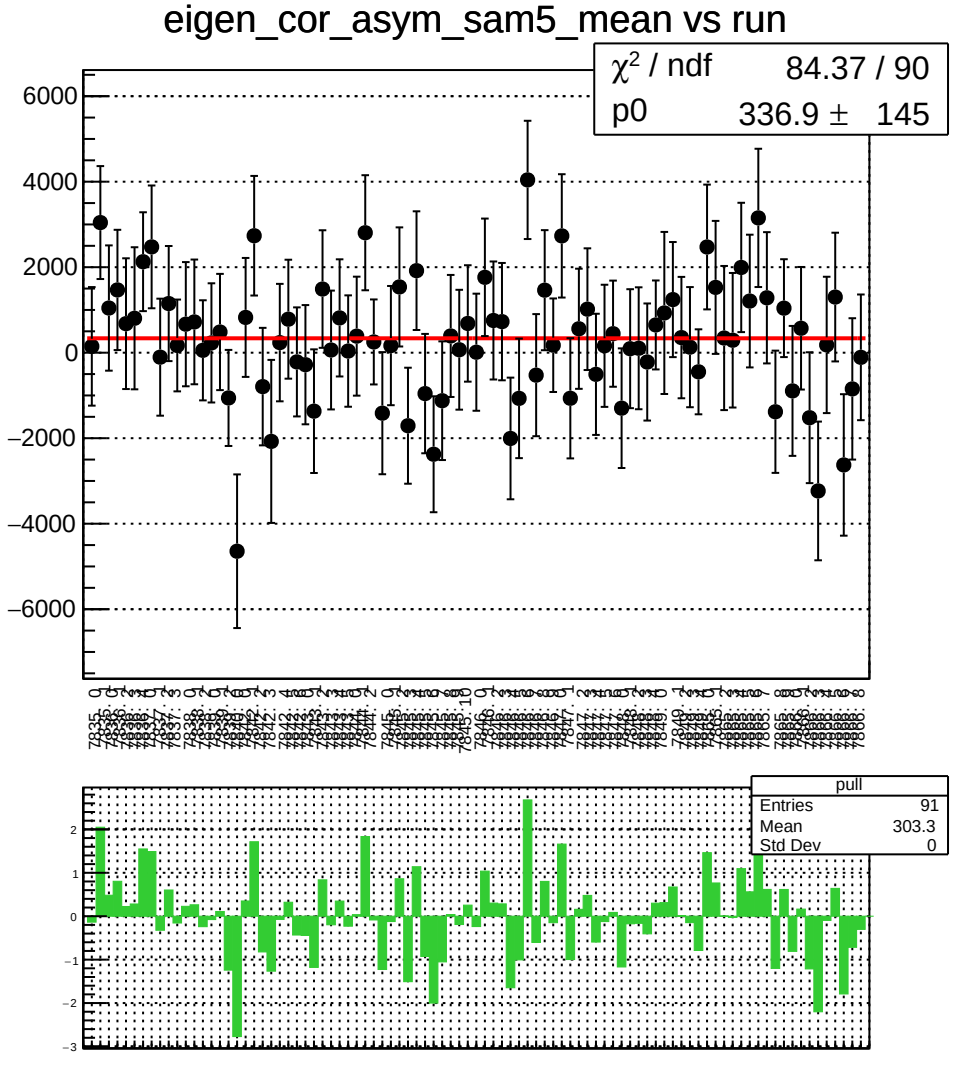

pull1D
Entries 91
Mean −0.01088
Std Dev 0.9628

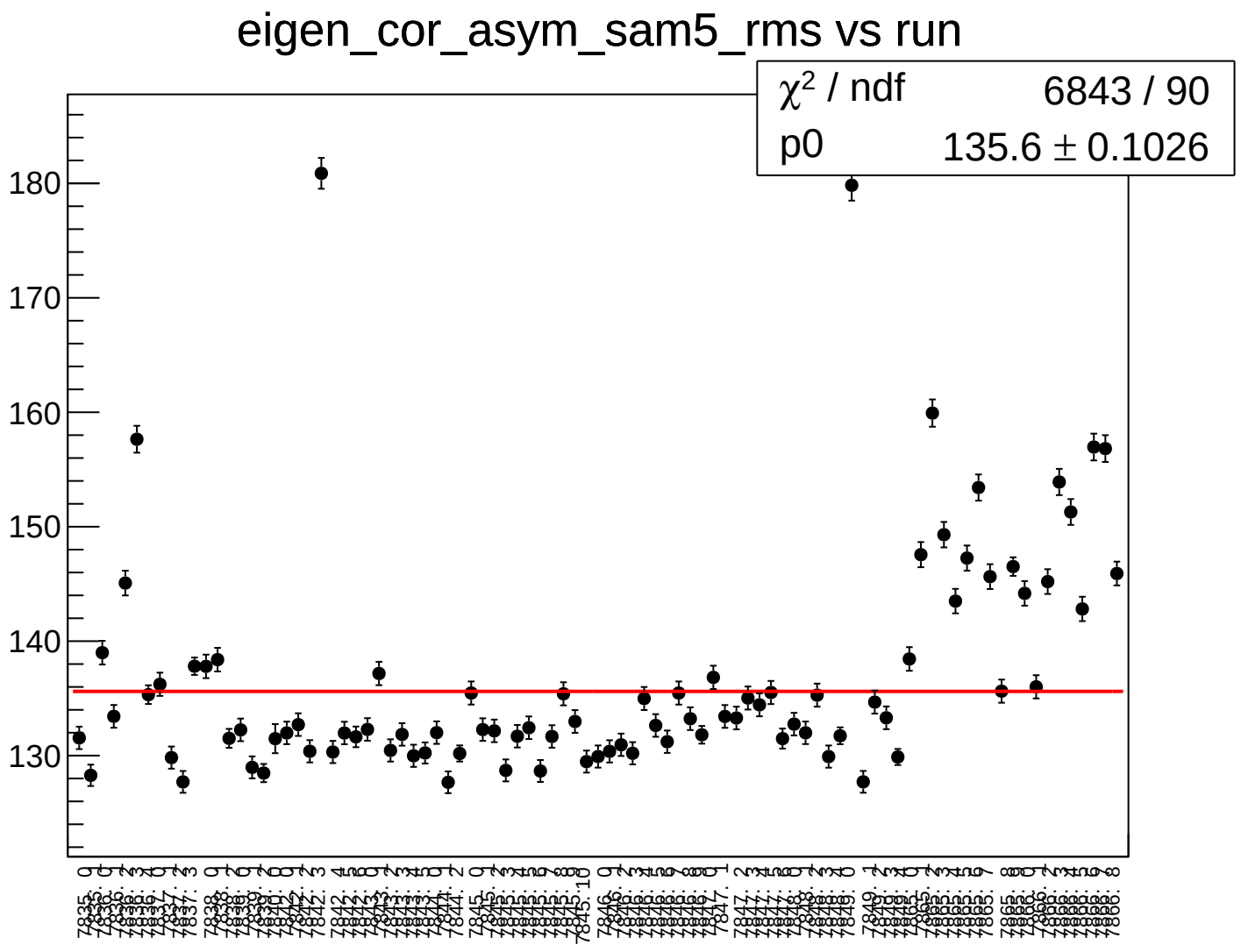

cor_asym_sam5_rms vs run
χ^2 / ndf 6843 / 90
p0 135.6 ± 0.1026
180
170
160
150
140
130

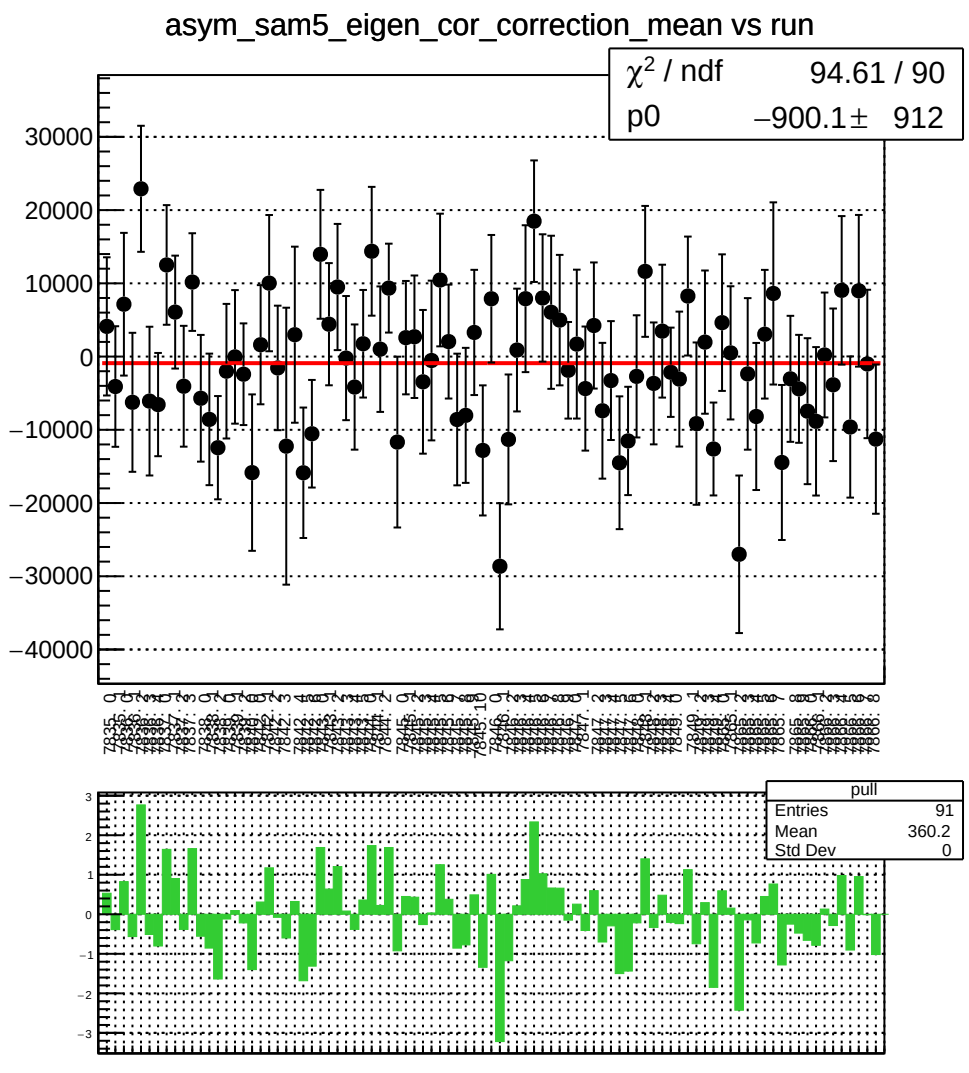

asym_sam5_cor_correction_mean vs run
χ² / ndf 94.61 / 90
p0 −900.1± 912
pull
Entries 91
Mean 360.2
Std Dev 0

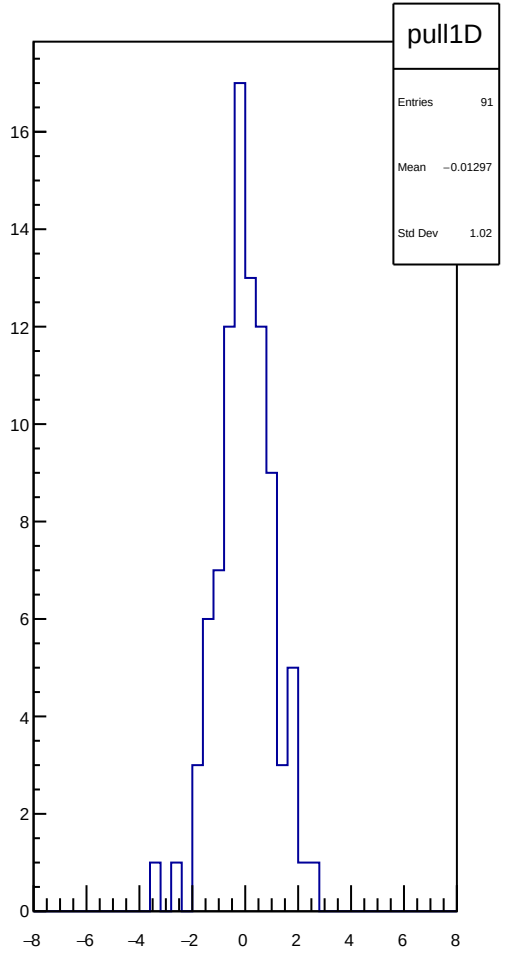

pull1D
Entries 91
Mean −0.01297
Std Dev 1.02

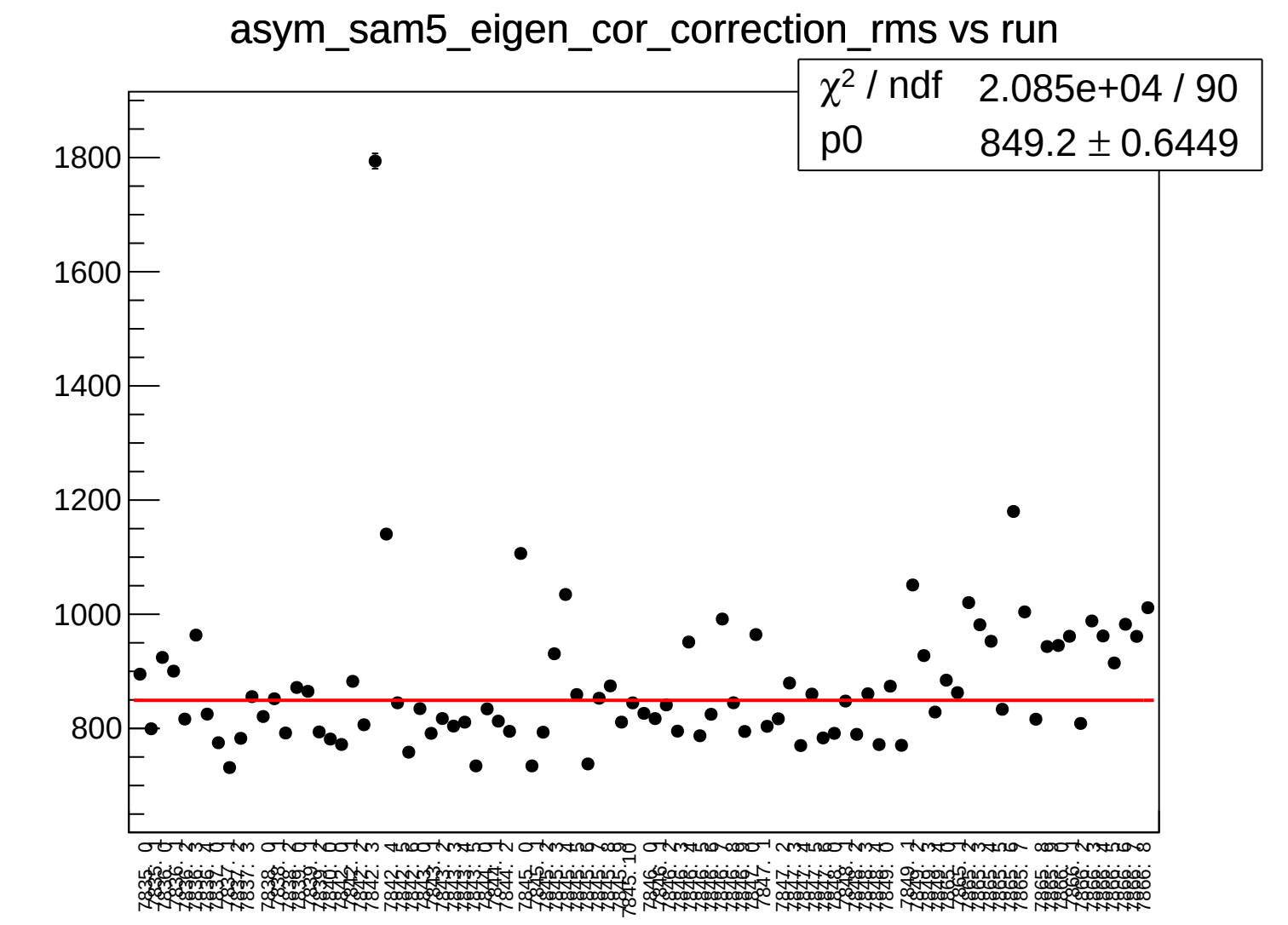

asym_sam5_cor_correction_rms vs run
χ² / ndf 2.085e+04 / 90
p0 849.2 ± 0.6449
1800
1600
1400
1200
1000
800

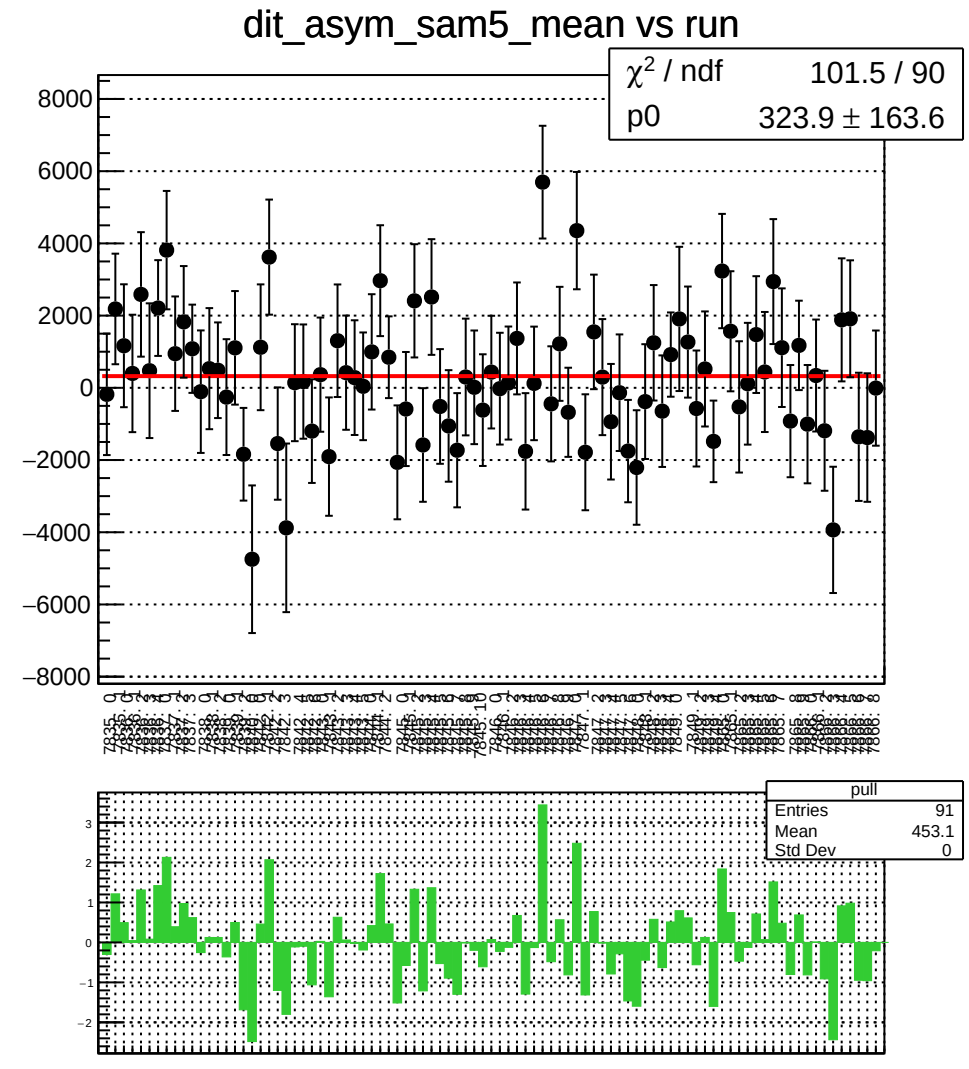

eigen_cor_asym_sam5_mean vs run
χ² / ndf 84.37 / 90
p0 336.9 ± 145
pull
Entries 91
Mean 303.3
Std Dev 0
pull1D
Entries 91
Mean −0.01088
Std Dev 0.9628

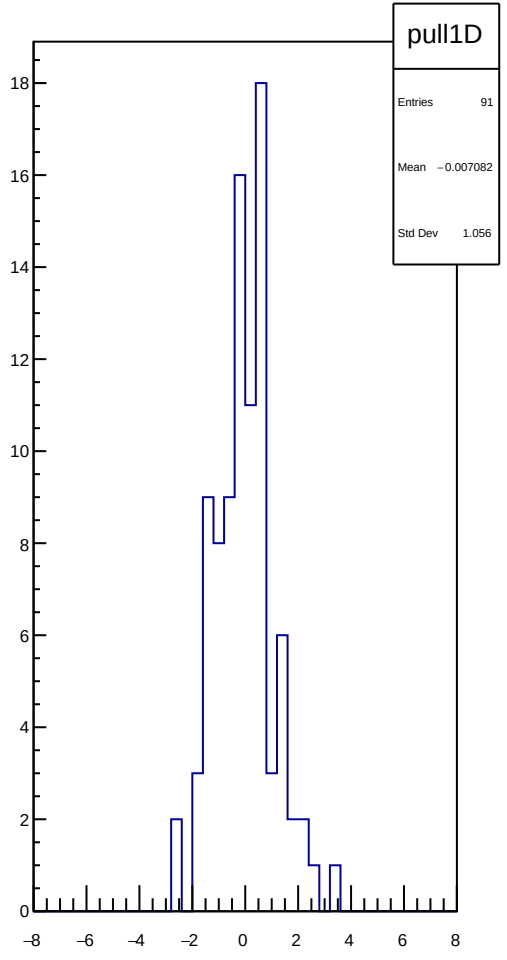

eigen_cor_asym_sam5_rms vs run
χ² / ndf 6843 / 90
p0 135.6 ± 0.1026
180
170
160
150
140
130

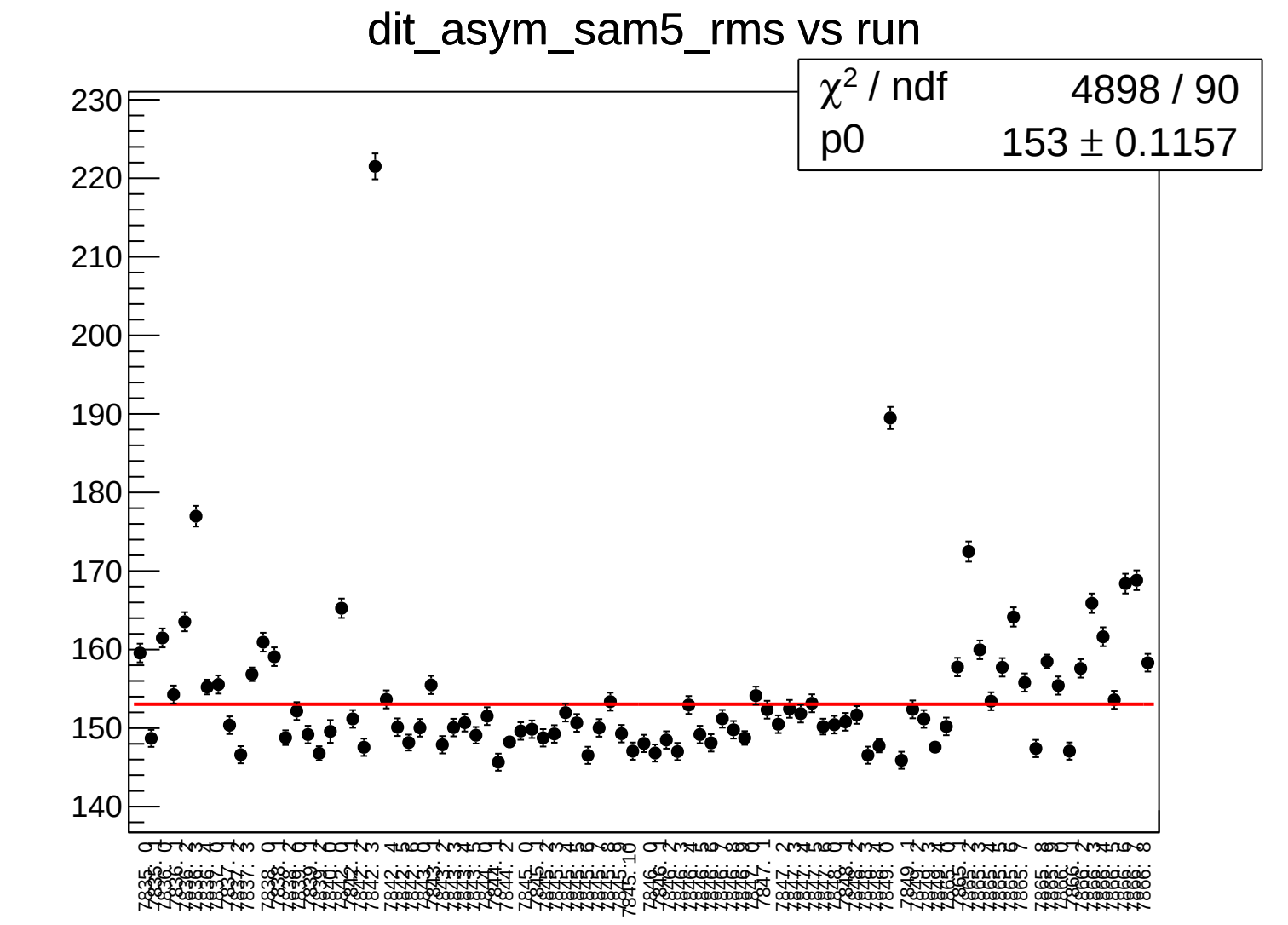

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 94.61 / 90
p0 −900.1± 912
pull
Entries 91
Mean 360.2
Std Dev 0

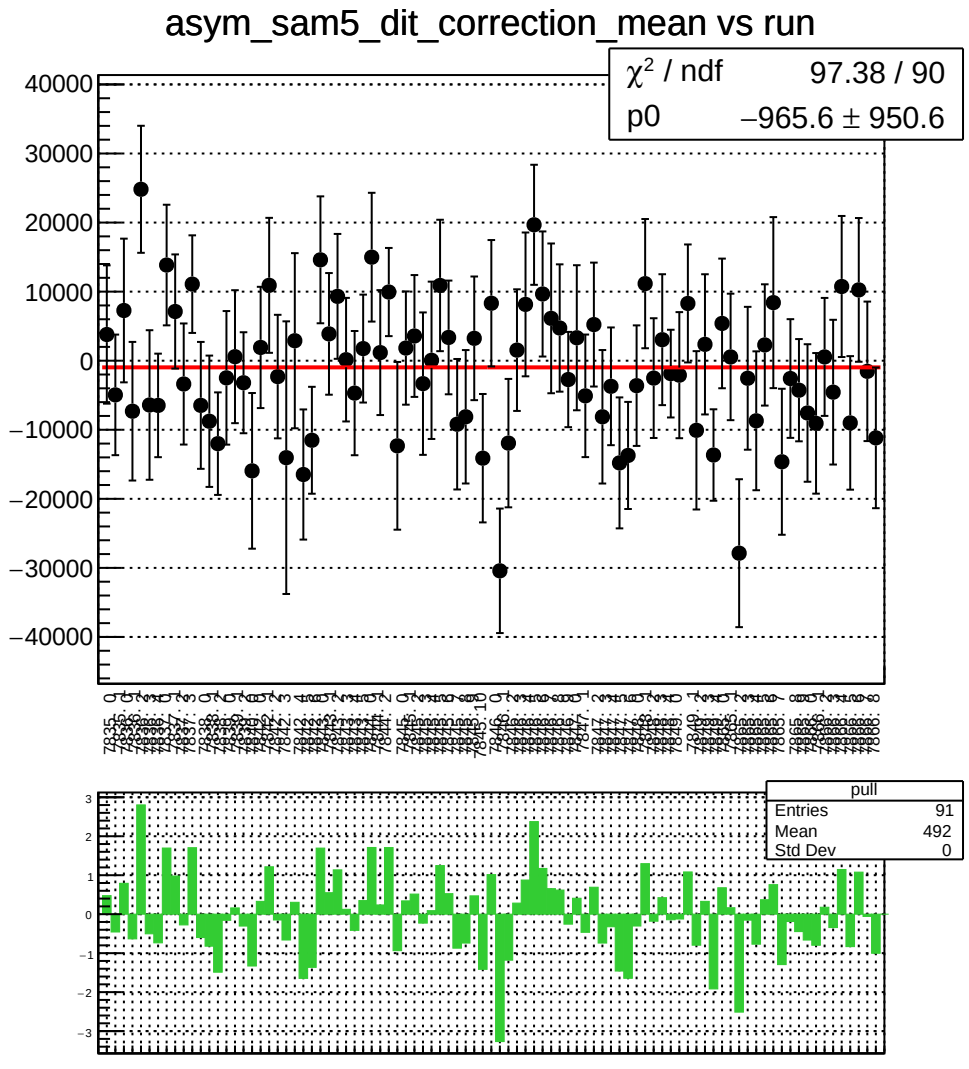

pull1D
Entries 91
Mean −0.01297
Std Dev 1.02

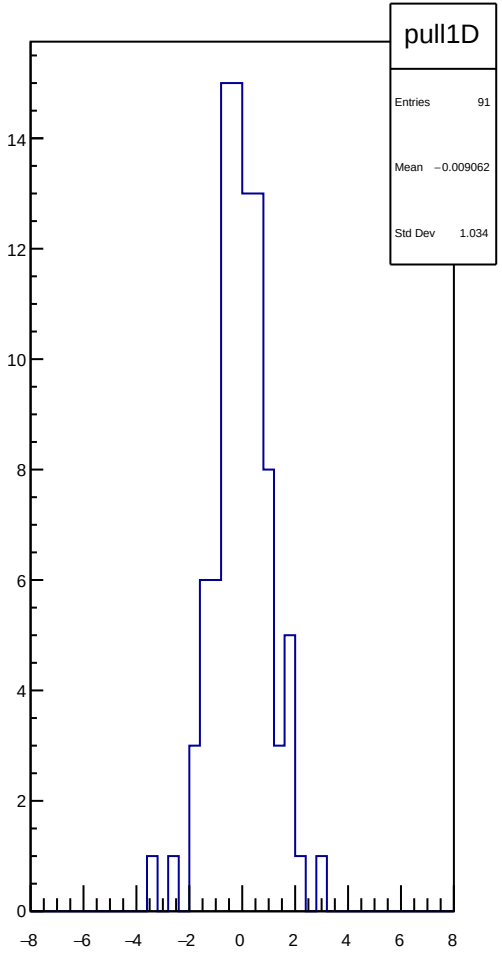

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2.085e+04 / 90
p0 849.2 ± 0.6449
1800
1600
1400
1200
1000
800

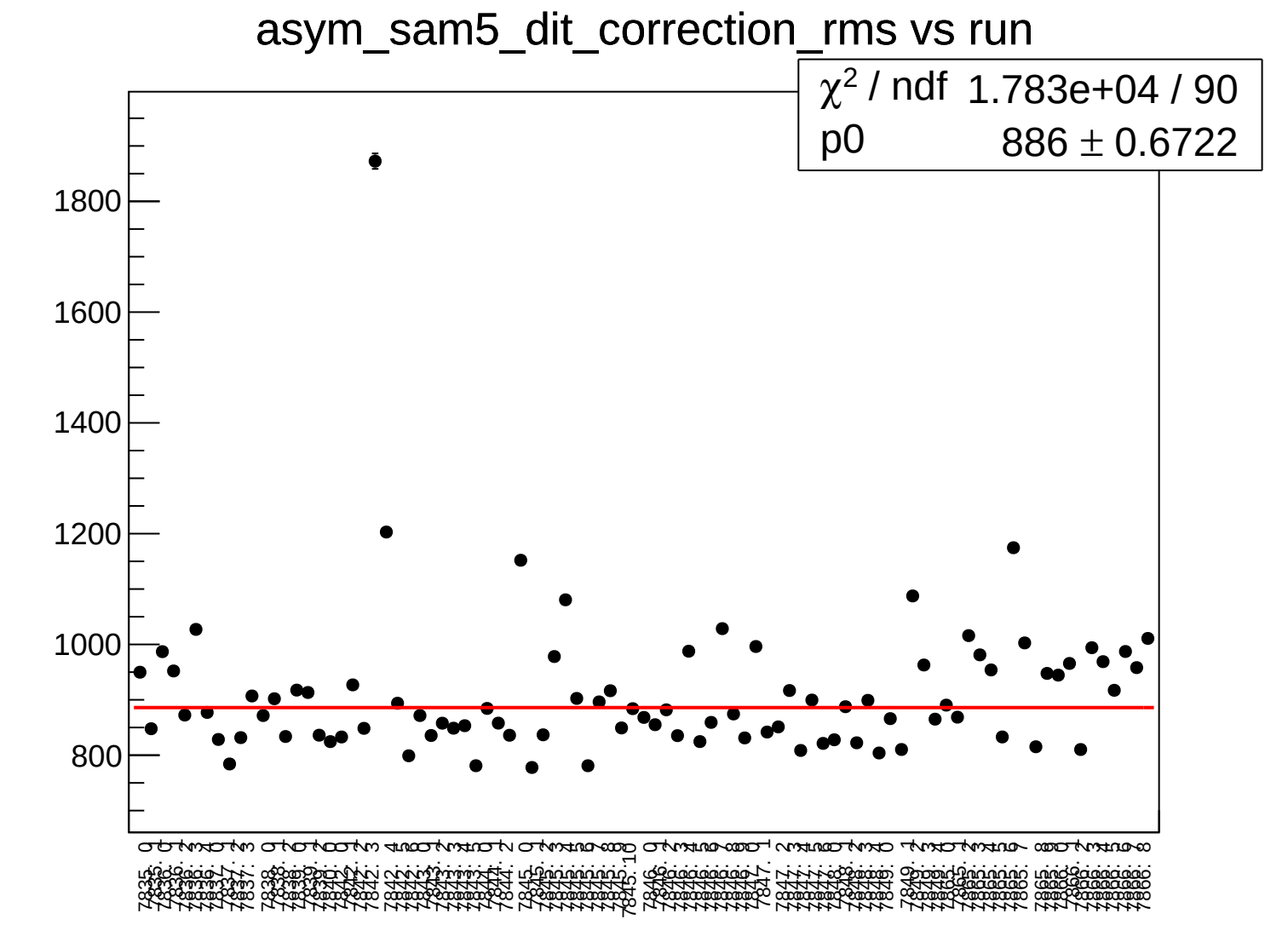

dit_asym_sam5_mean vs run
χ² / ndf 101.5 / 90
p0 323.9 ± 163.6
pull
Entries 91
Mean 453.1
Std Dev 0

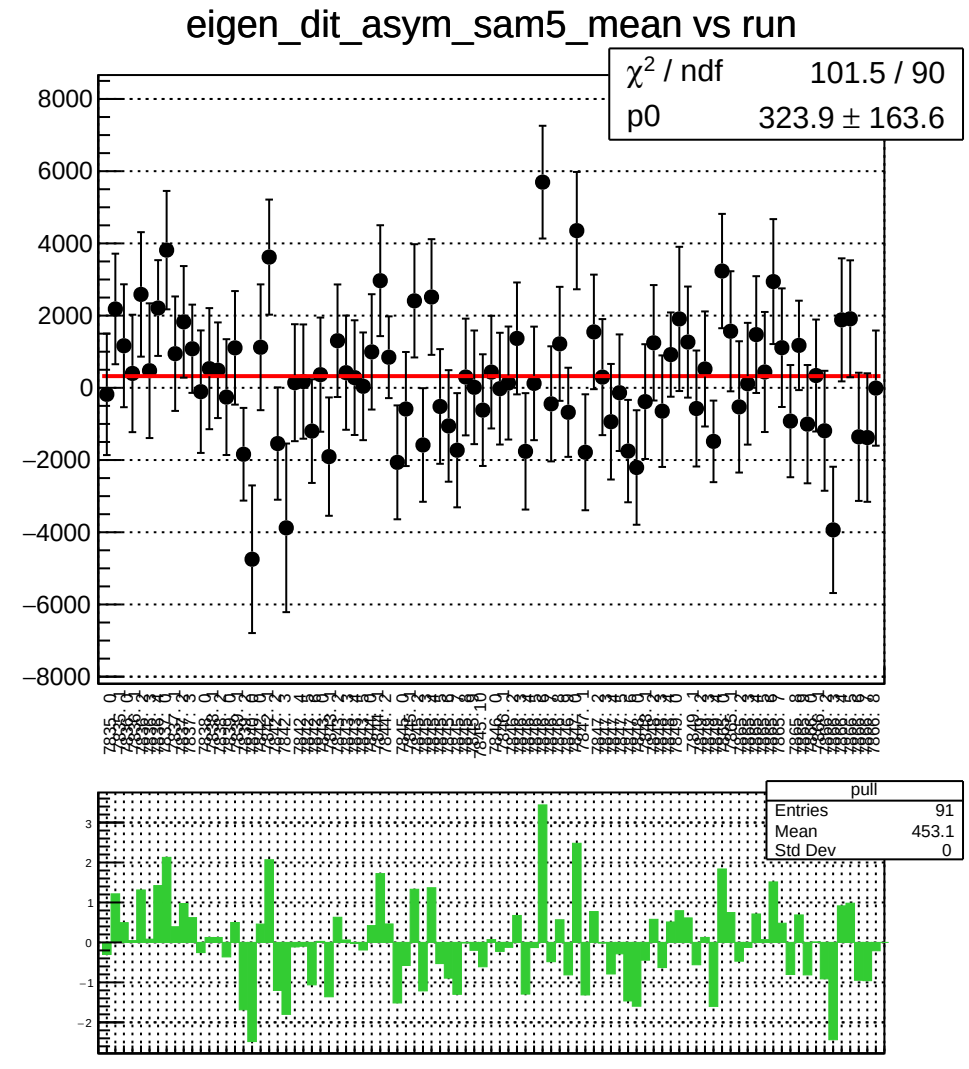

pull1D
Entries 91
Mean −0.007082
Std Dev 1.056

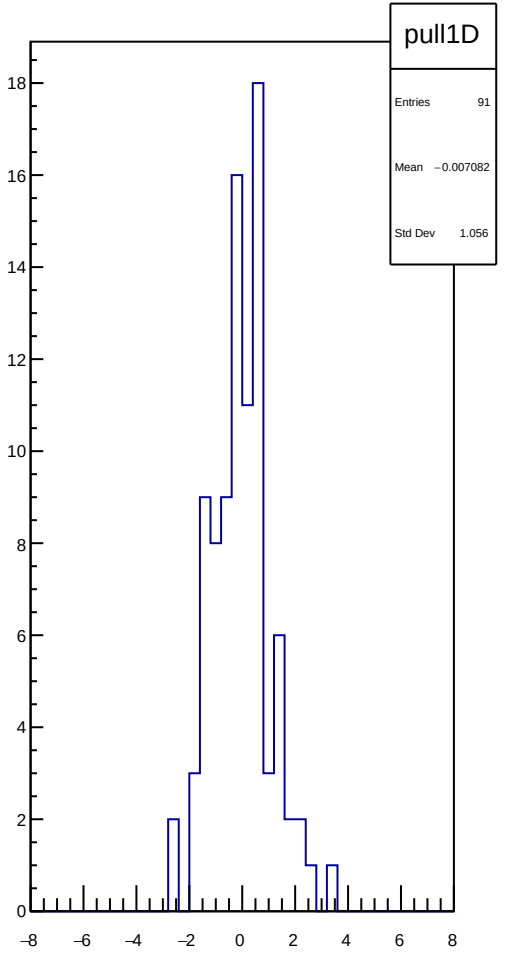

dit_asym_sam5_rms vs run
χ^2 / ndf 4898 / 90
p0 153 ± 0.1157
230
220
210
200
190
180
170
160
150
140

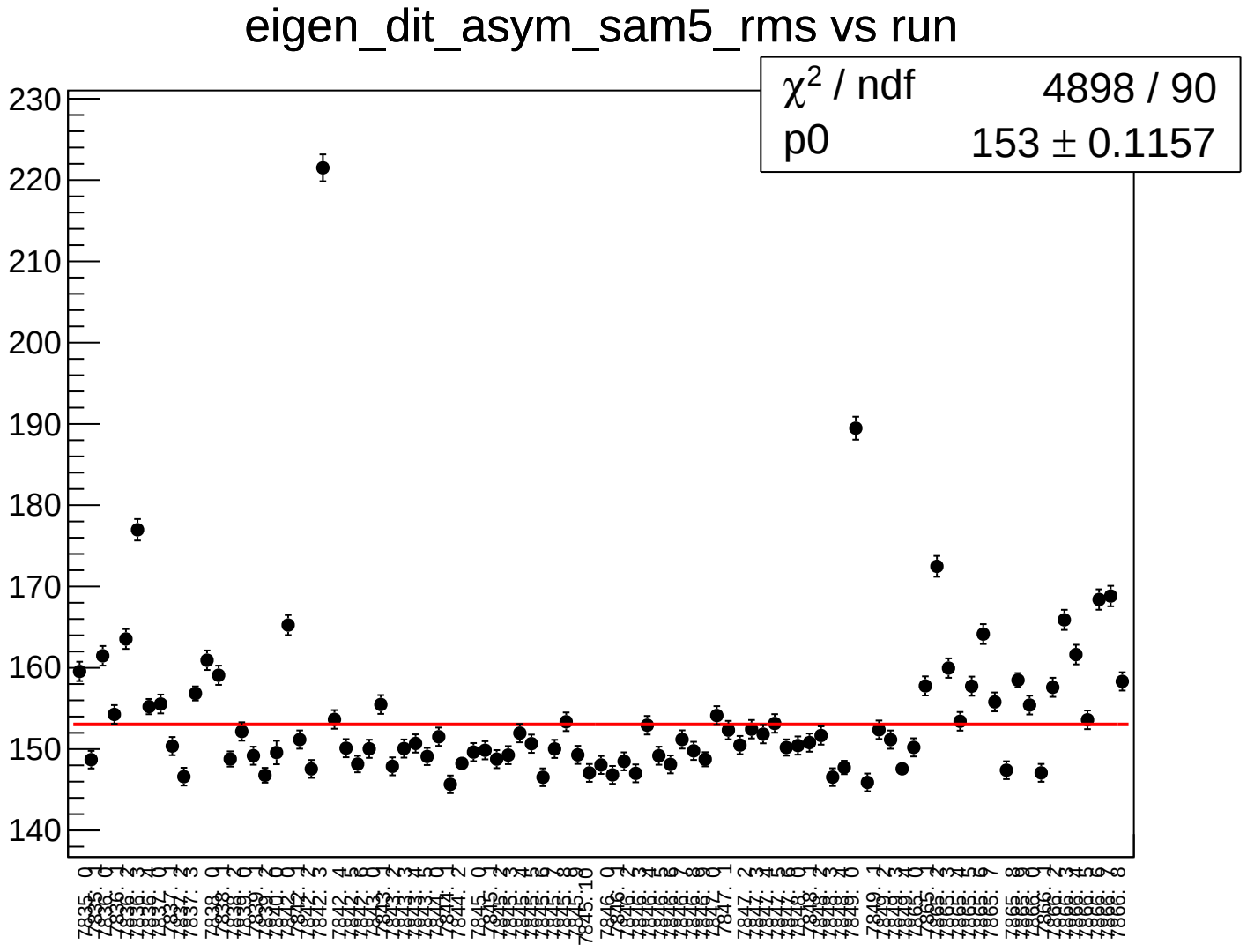

asym_sam5_dit_correction_mean vs run
χ² / ndf 97.38 / 90
p0 −965.6 ± 950.6
pull
Entries 91
Mean 492
Std Dev 0

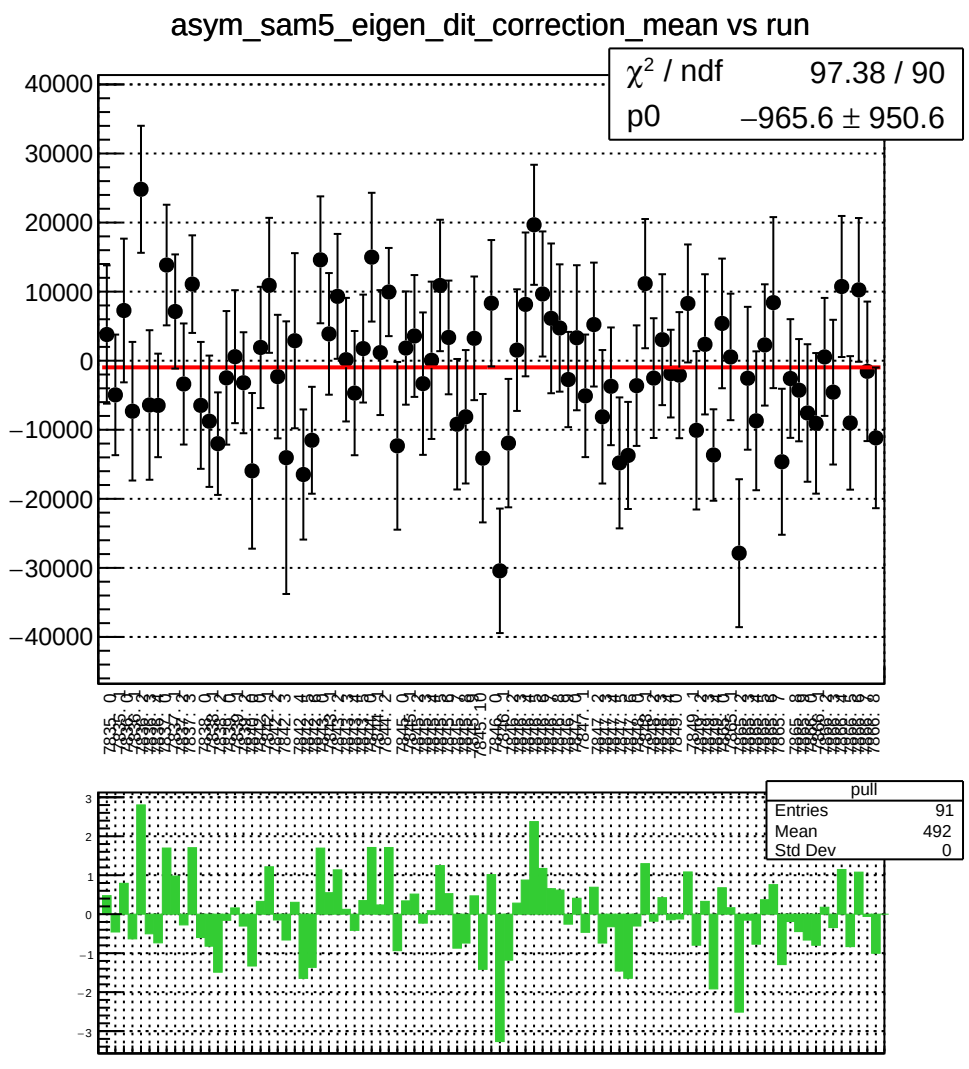

pull1D
Entries 91
Mean −0.009062
Std Dev 1.034

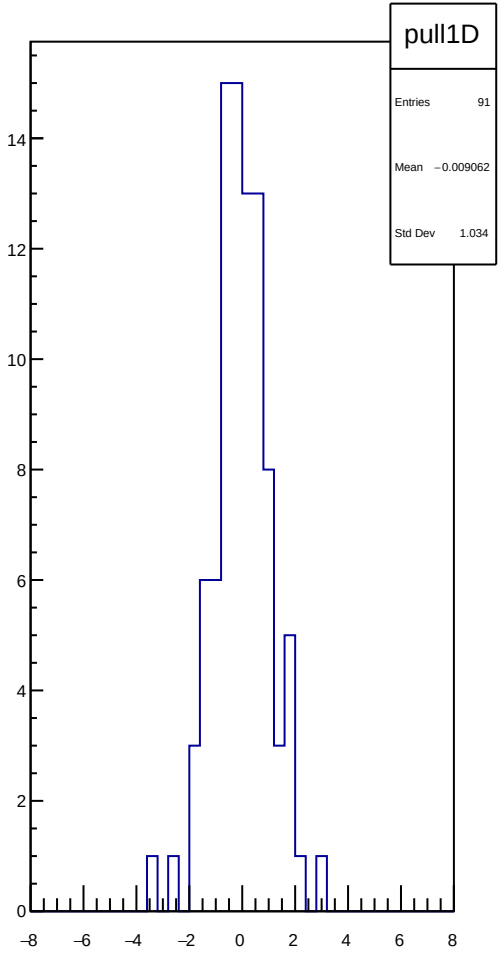

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.783e+04 / 90
p0 886 ± 0.6722
1800
1600
1400
1200
1000
800

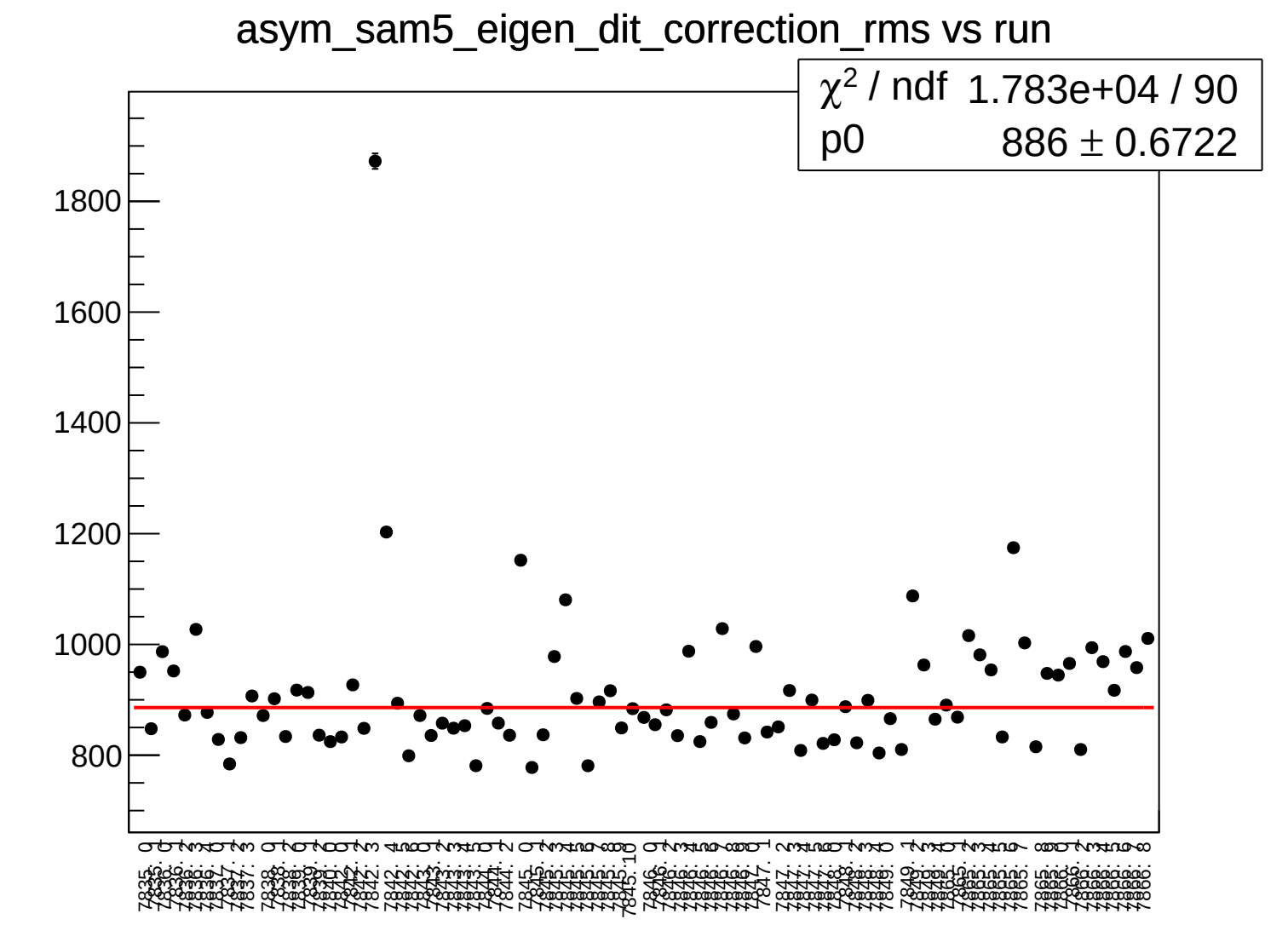

eigen_dit_asym_sam5_mean vs run
χ² / ndf 101.5 / 90
p0 323.9 ± 163.6
pull
Entries 91
Mean 453.1
Std Dev 0

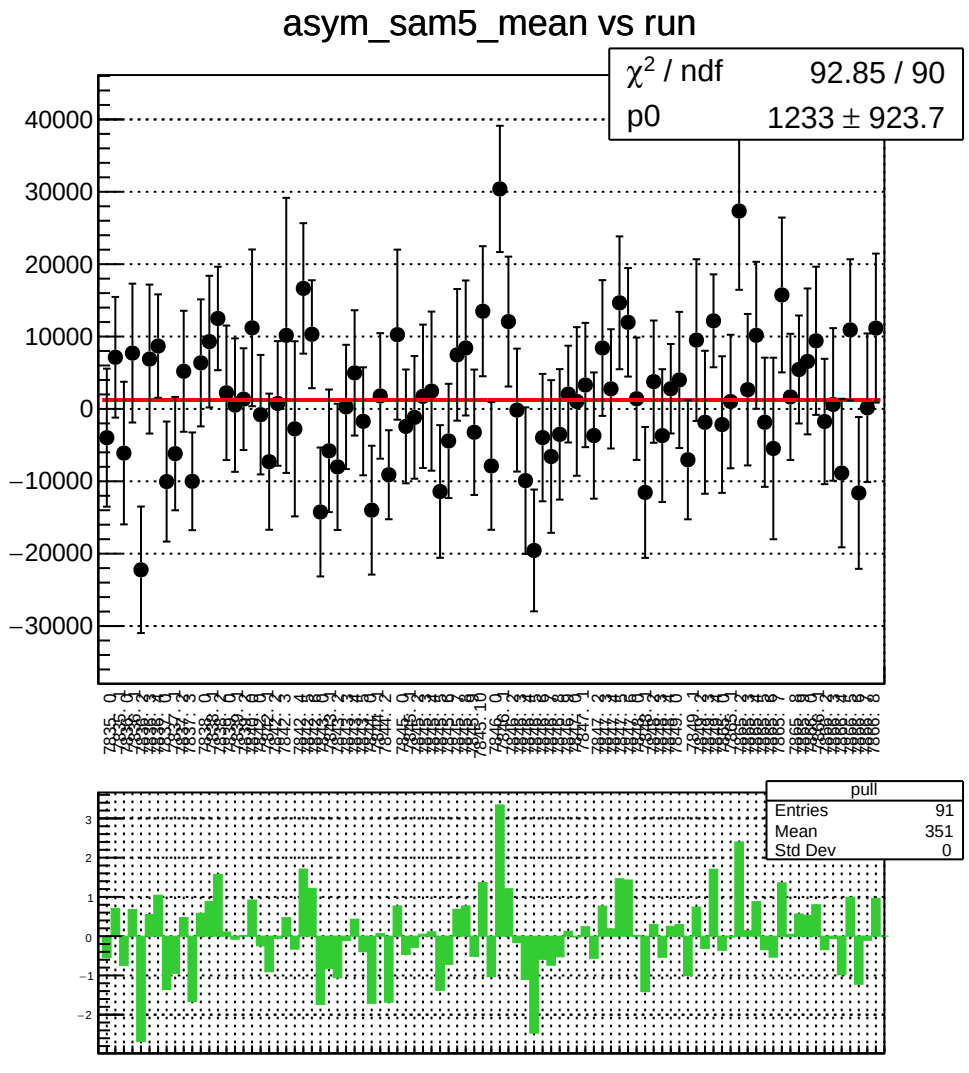

pull1D
Entries 91
Mean −0.007082
Std Dev 1.056

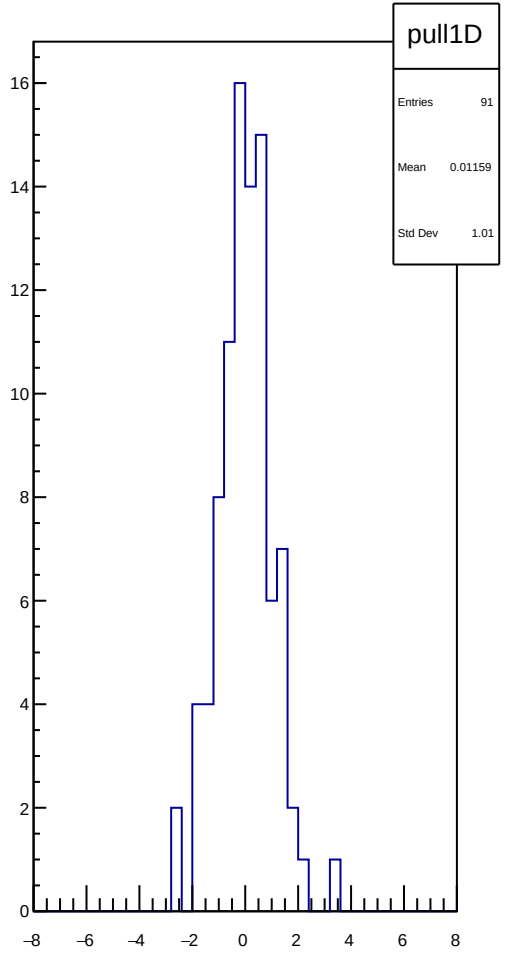

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 4898 / 90
p0 153 ± 0.1157
230
220
210
200
190
180
170
160
150
140

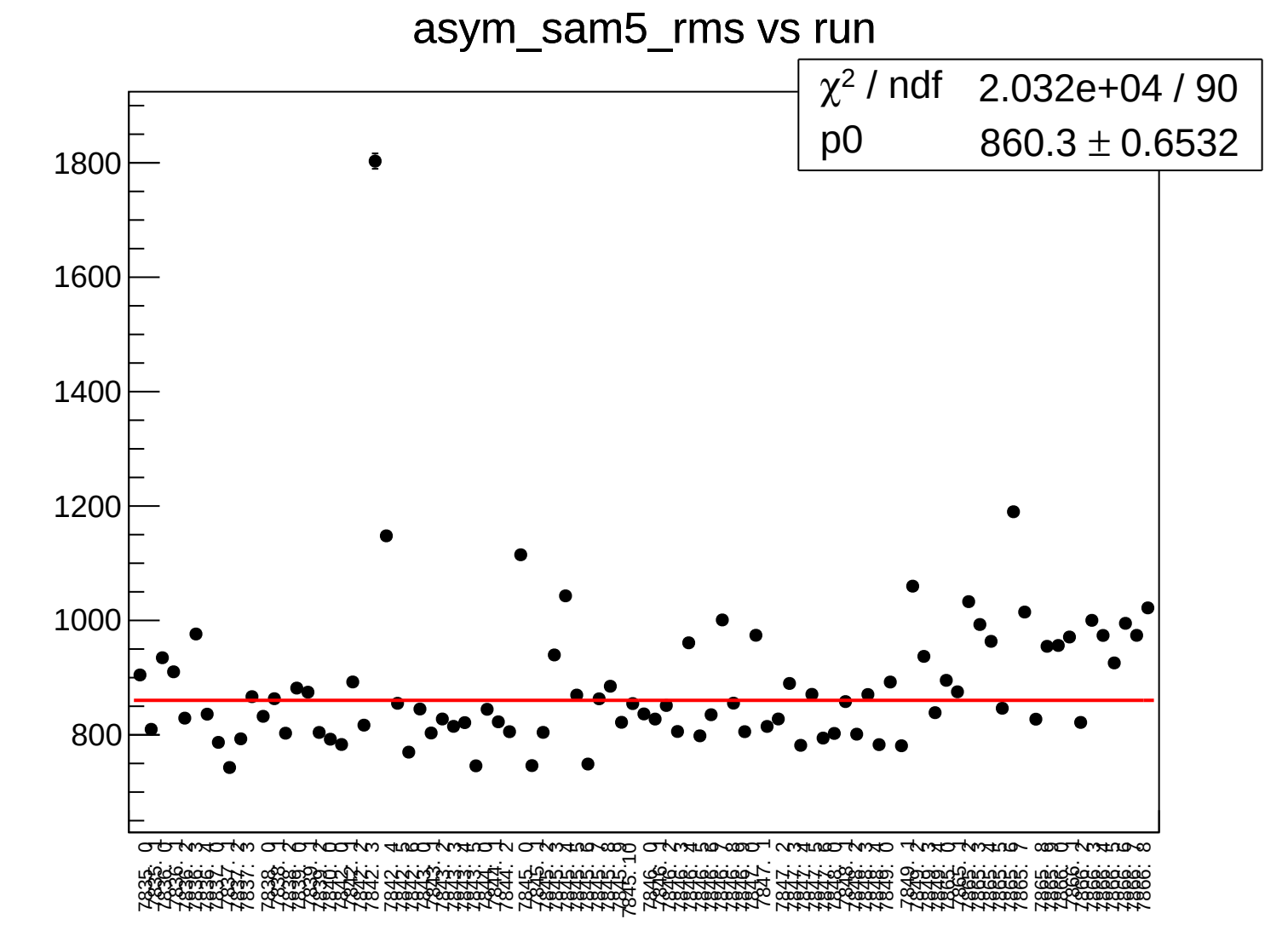

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 97.38 / 90
p0 −965.6 ± 950.6
pull
Entries 91
Mean 492
Std Dev 0

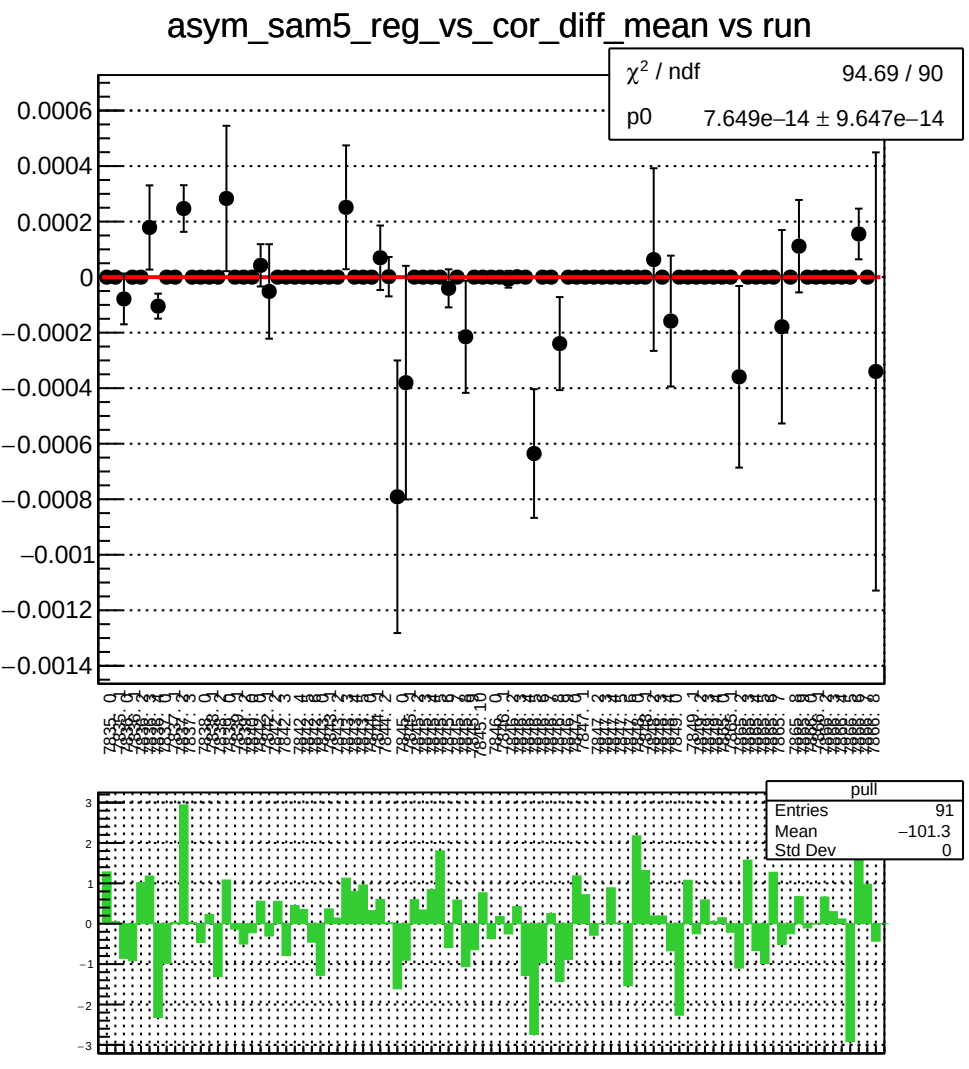

pull1D
Entries 91
Mean −0.009062
Std Dev 1.034

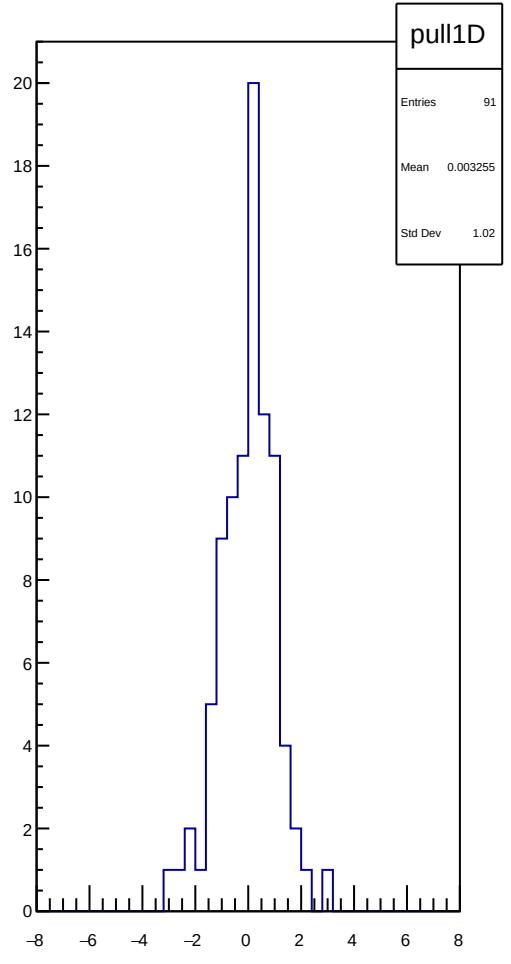

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.783e+04 / 90
p0 886 ± 0.6722
1800
1600
1400
1200
1000
800

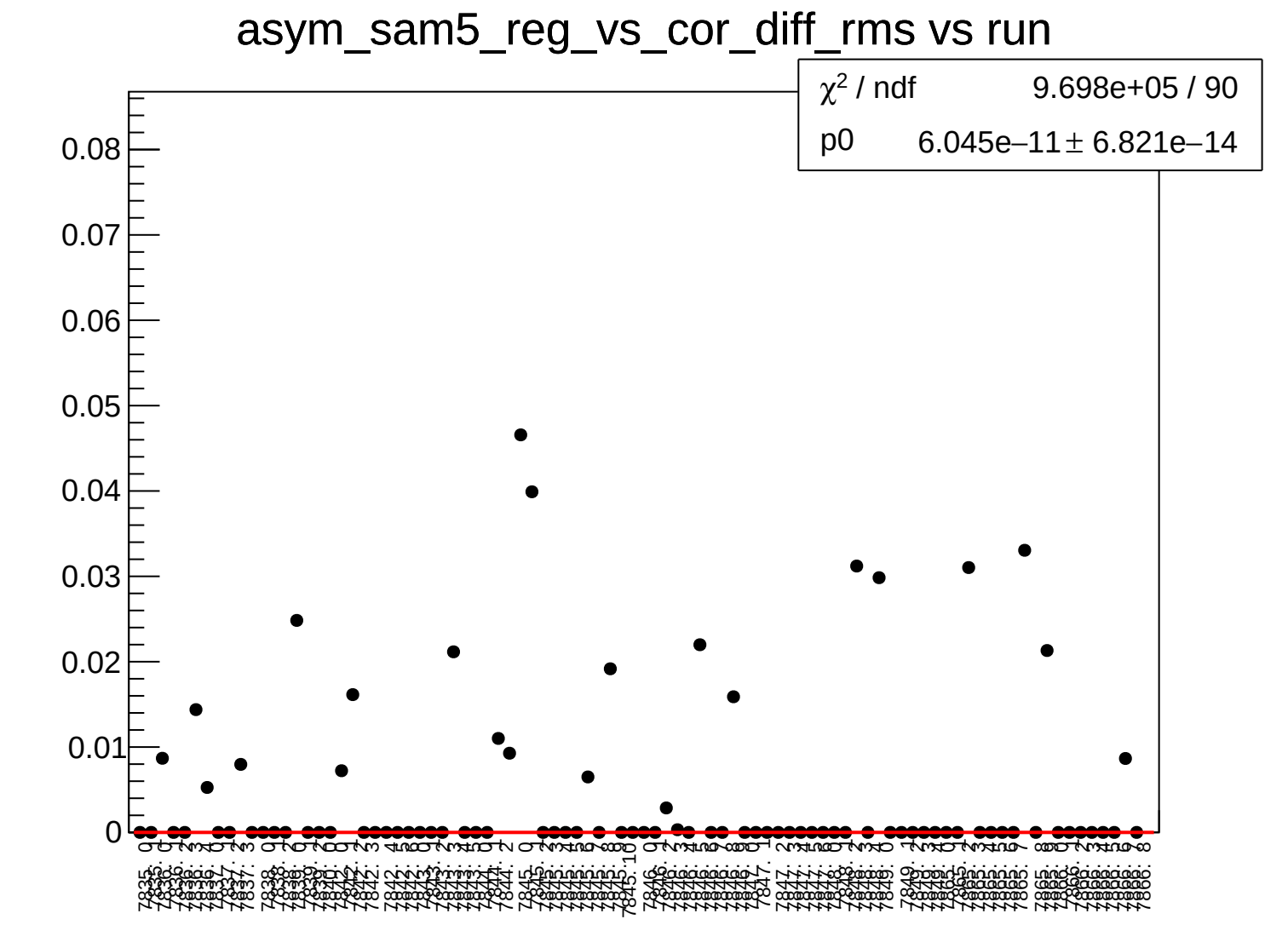

asym_sam5_mean vs run
χ² / ndf 92.85 / 90
p0 1233 ± 923.7
pull
Entries 91
Mean 351
Std Dev 0

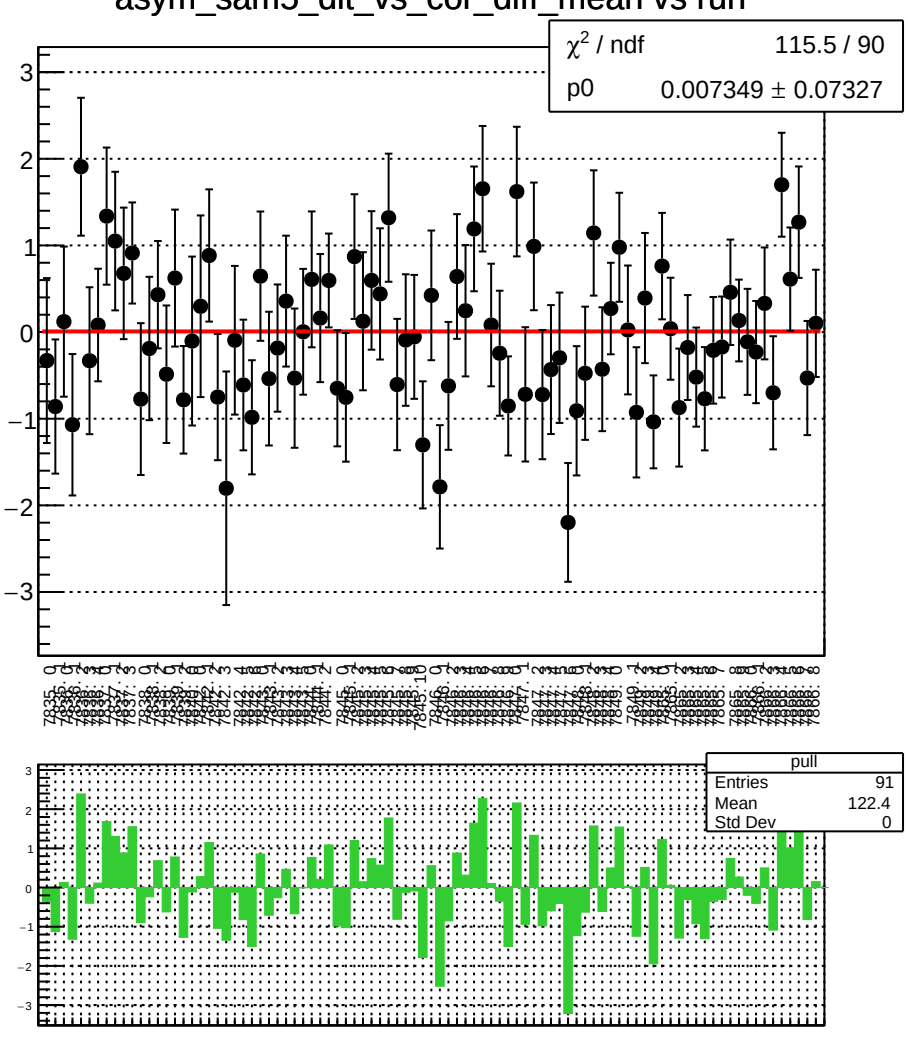

pull1D
Entries 91
Mean 0.01159
Std Dev 1.01

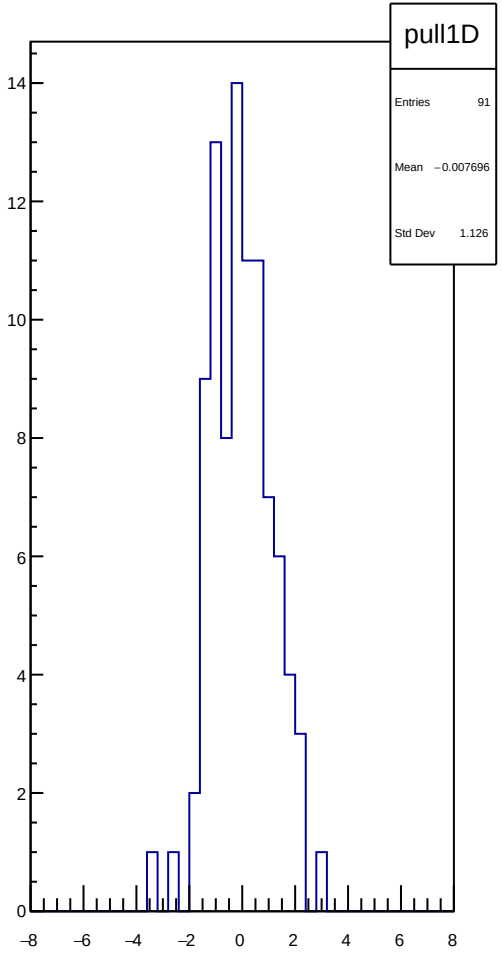

asym_sam5_rms vs run
χ² / ndf 2.032e+04 / 90
p0 860.3 ± 0.6532
1800
1600
1400
1200
1000
800

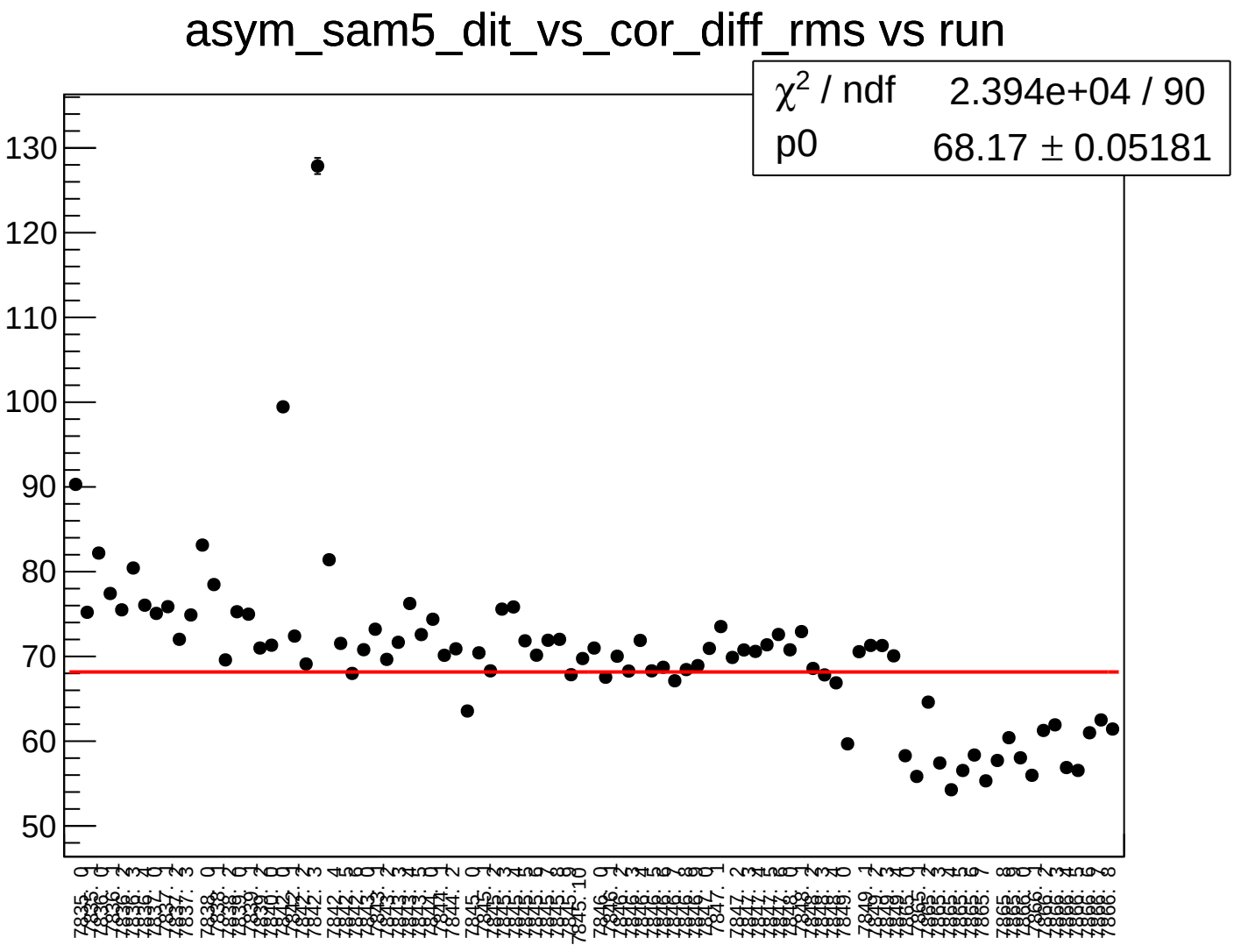

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 94.69 / 90
p0 7.649e−14 ± 9.647e−14
pull
Entries 91
Mean −101.3
Std Dev 0

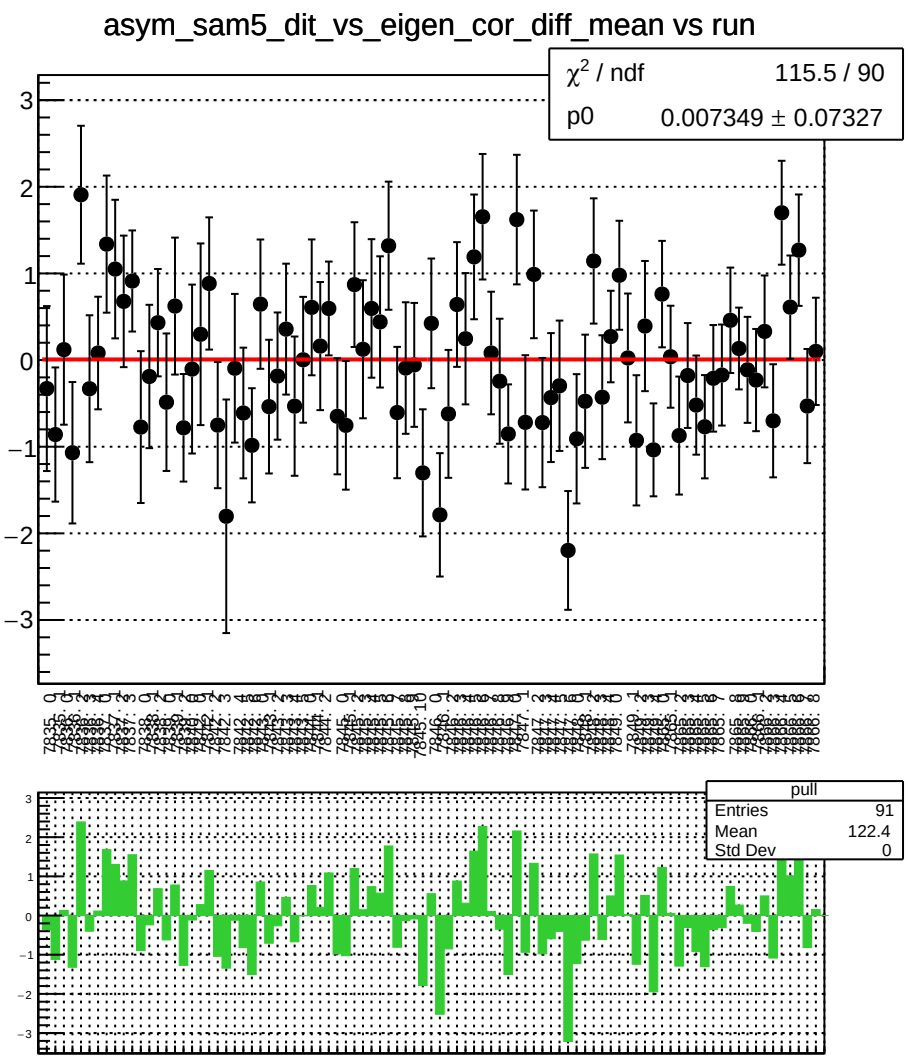

pull1D
Entries 91
Mean 0.003255
Std Dev 1.02

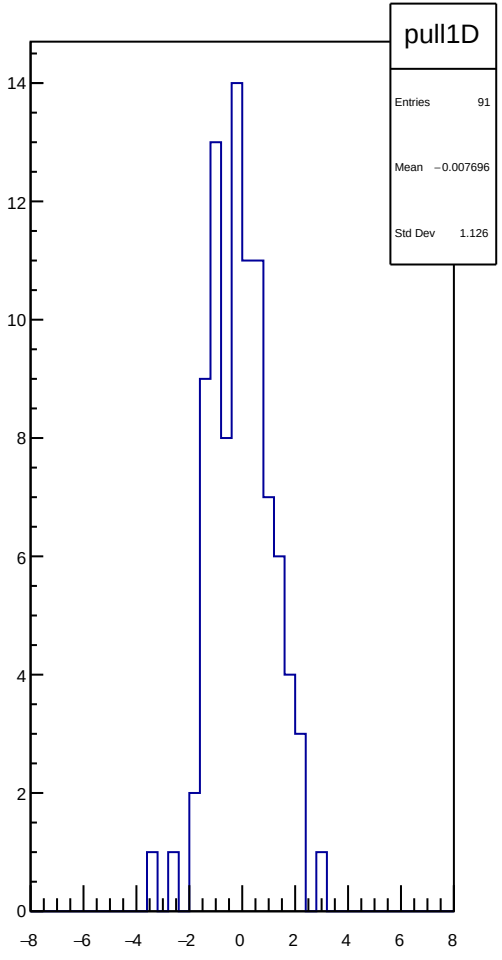

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 9.698e+05 / 90
p0 6.045e−11 ± 6.821e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

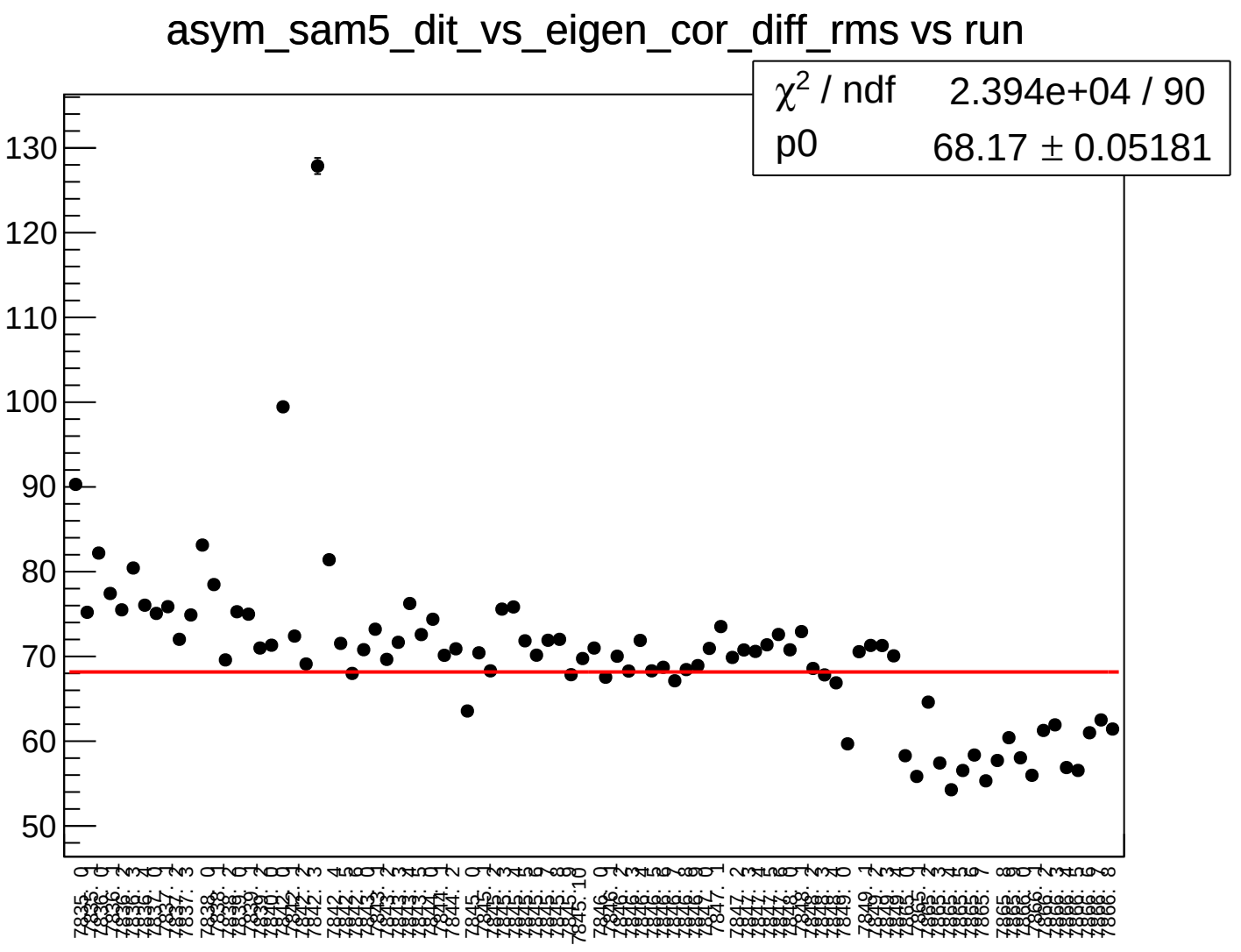

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 0.007349 ± 0.07327
pull
Entries 91
Mean 122.4
Std Dev 0

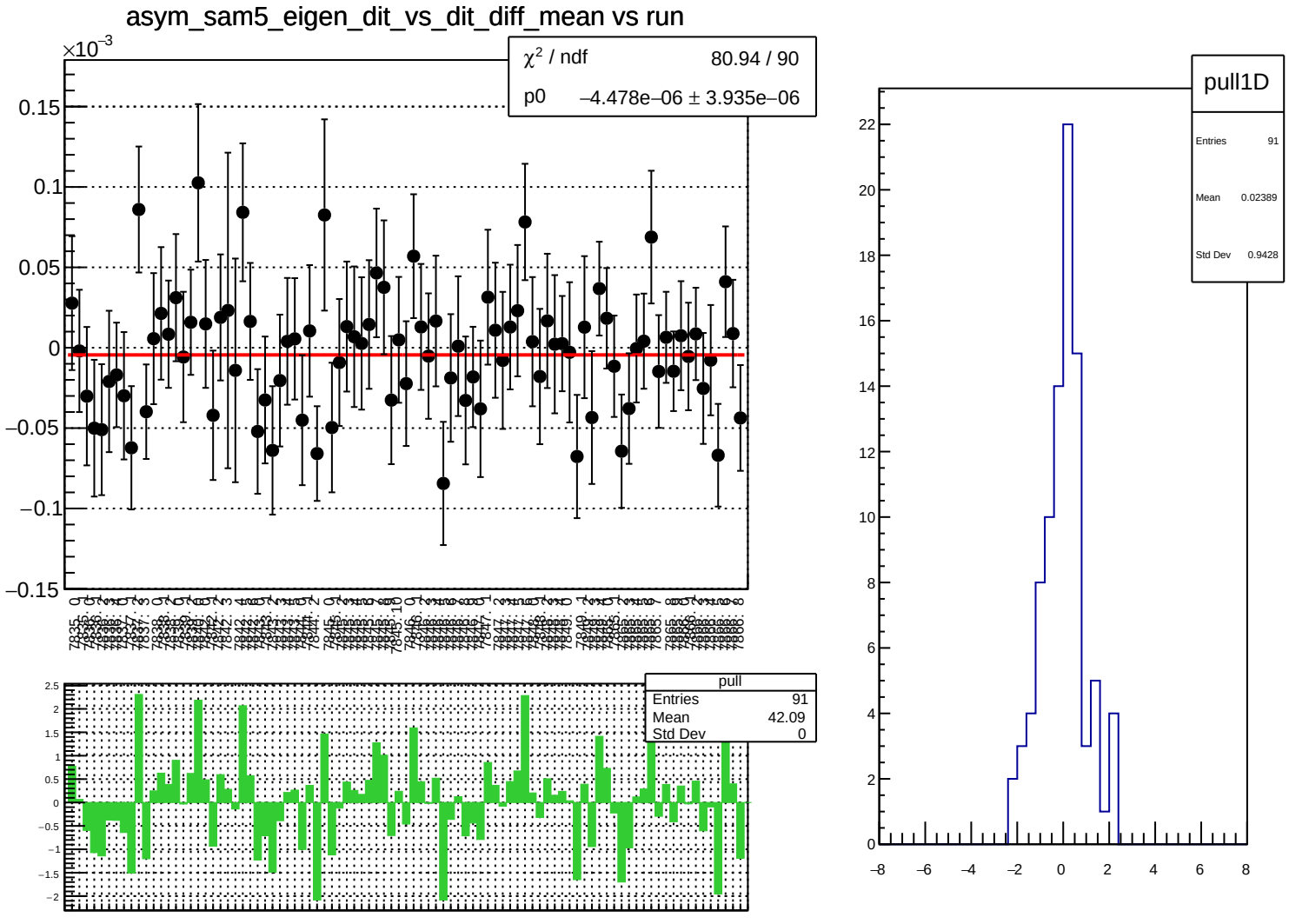

pull1D
Entries 91
Mean −0.007696
Std Dev 1.126

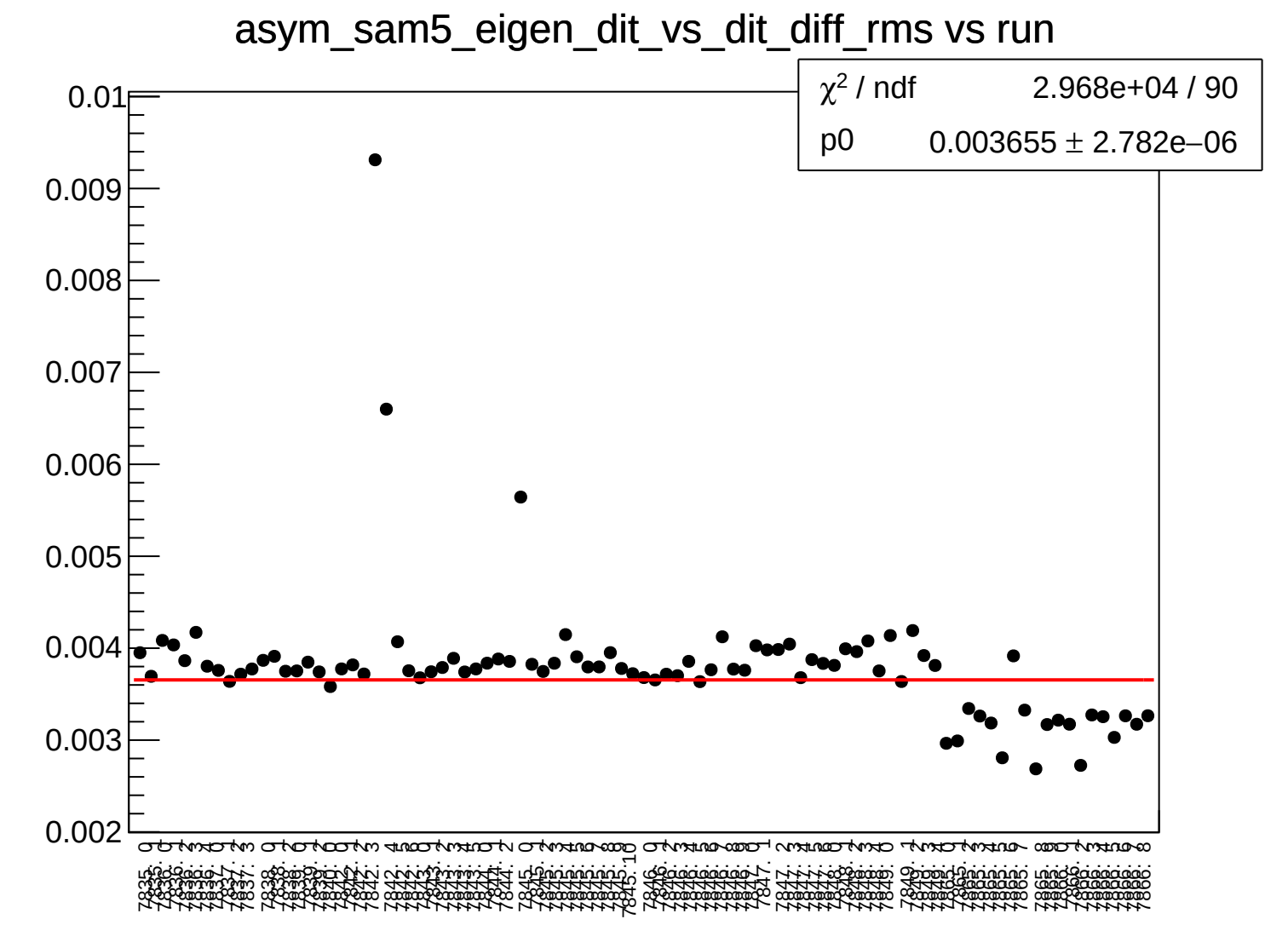

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.394e+04 / 90
p0 68.17 ± 0.05181
130
120
110
100
90
80
70
60
50

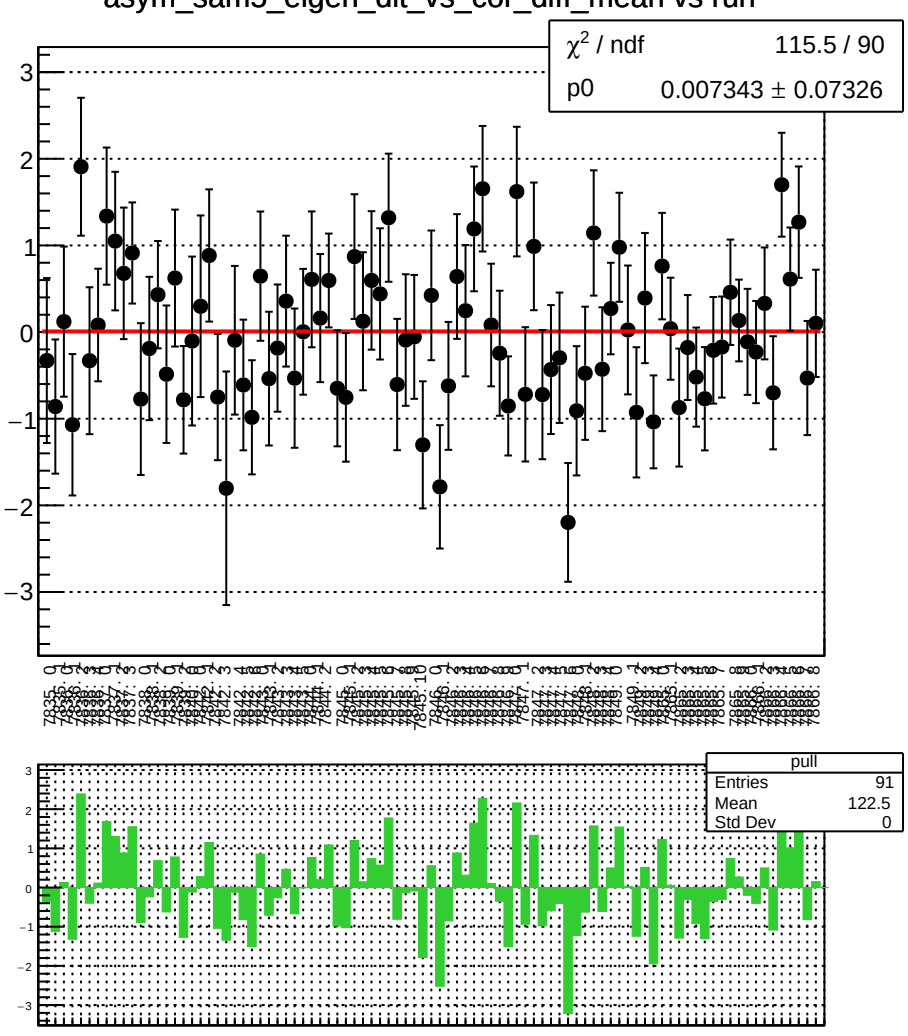

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 0.007349 ± 0.07327
pull
Entries 91
Mean 122.4
Std Dev 0

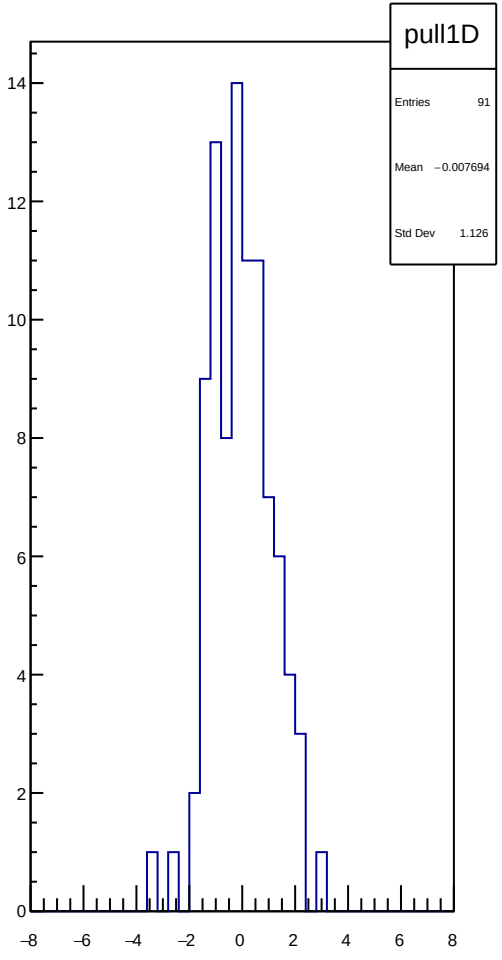

pull1D
Entries 91
Mean −0.007696
Std Dev 1.126

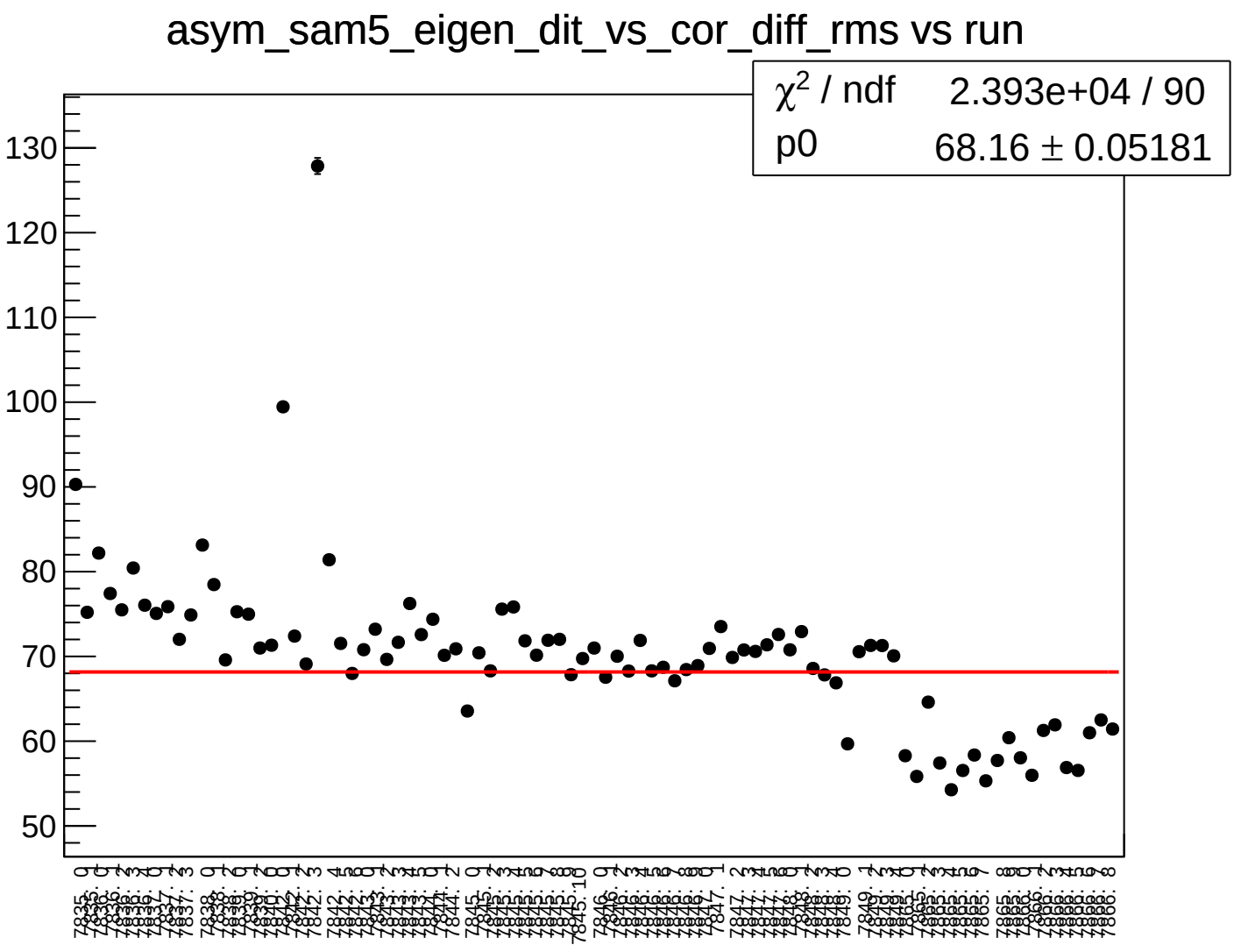

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.394e+04 / 90
p0 68.17 ± 0.05181
130
120
110
100
90
80
70
60
50

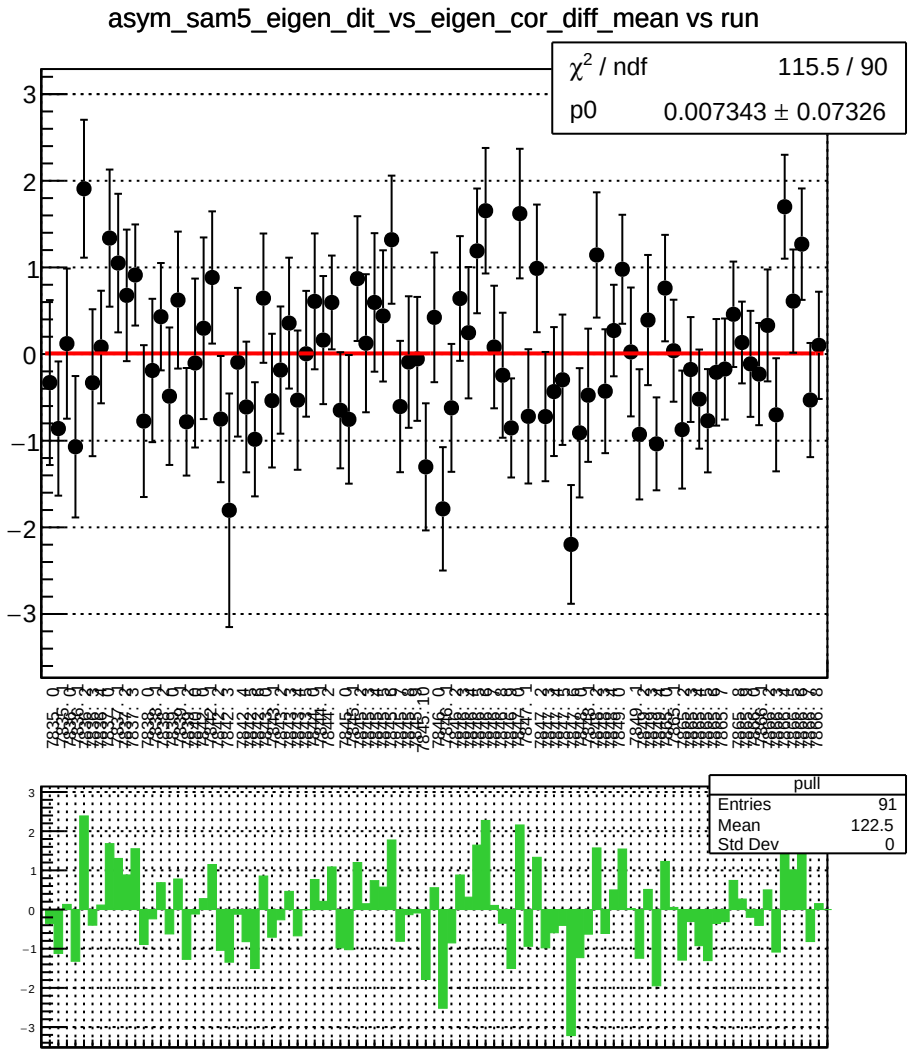

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.94 / 90
p0 −4.478e−06 ± 3.935e−06
pull
Entries 91
Mean 42.09
Std Dev 0
pull1D
Entries 91
Mean 0.02389
Std Dev 0.9428

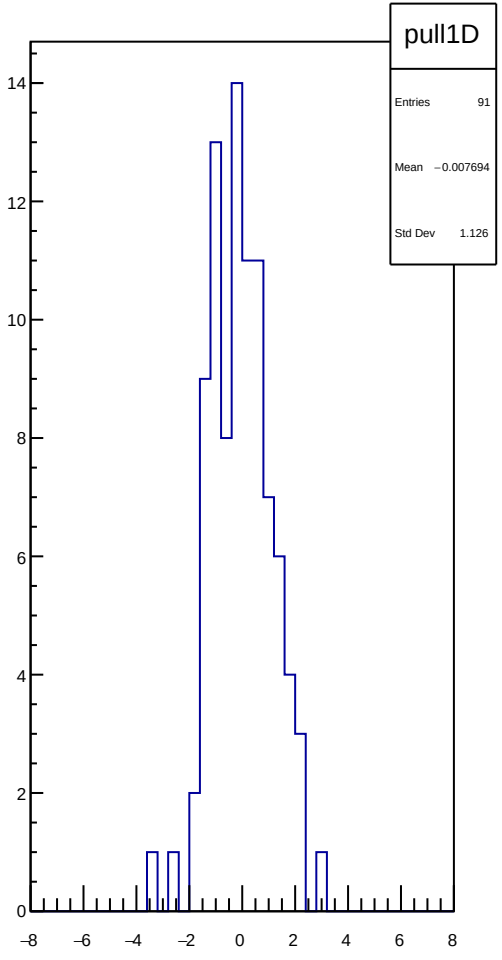

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.968e+04 / 90
p0 0.003655 ± 2.782e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

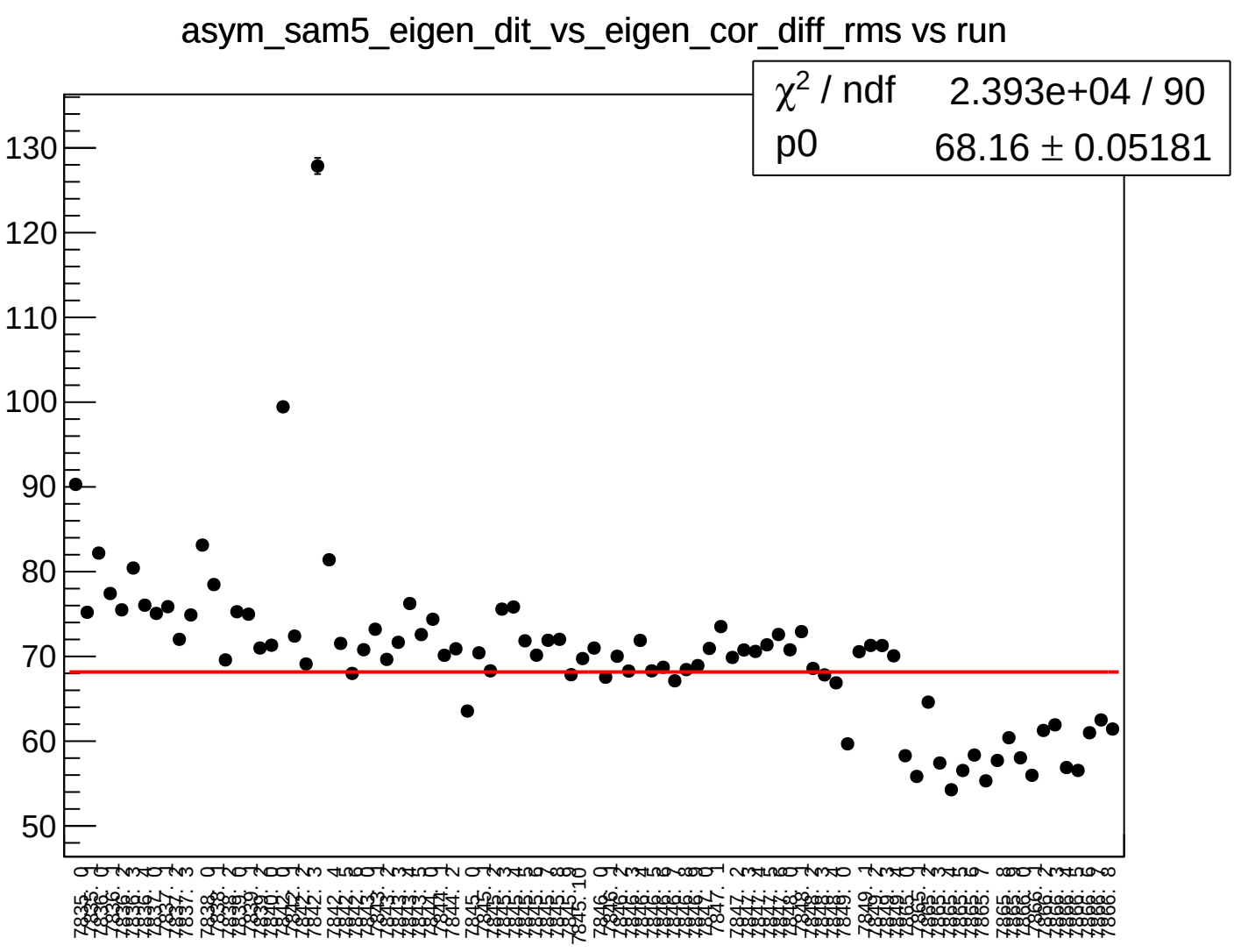

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 0.007343 ± 0.07326
pull
Entries 91
Mean 122.5
Std Dev 0

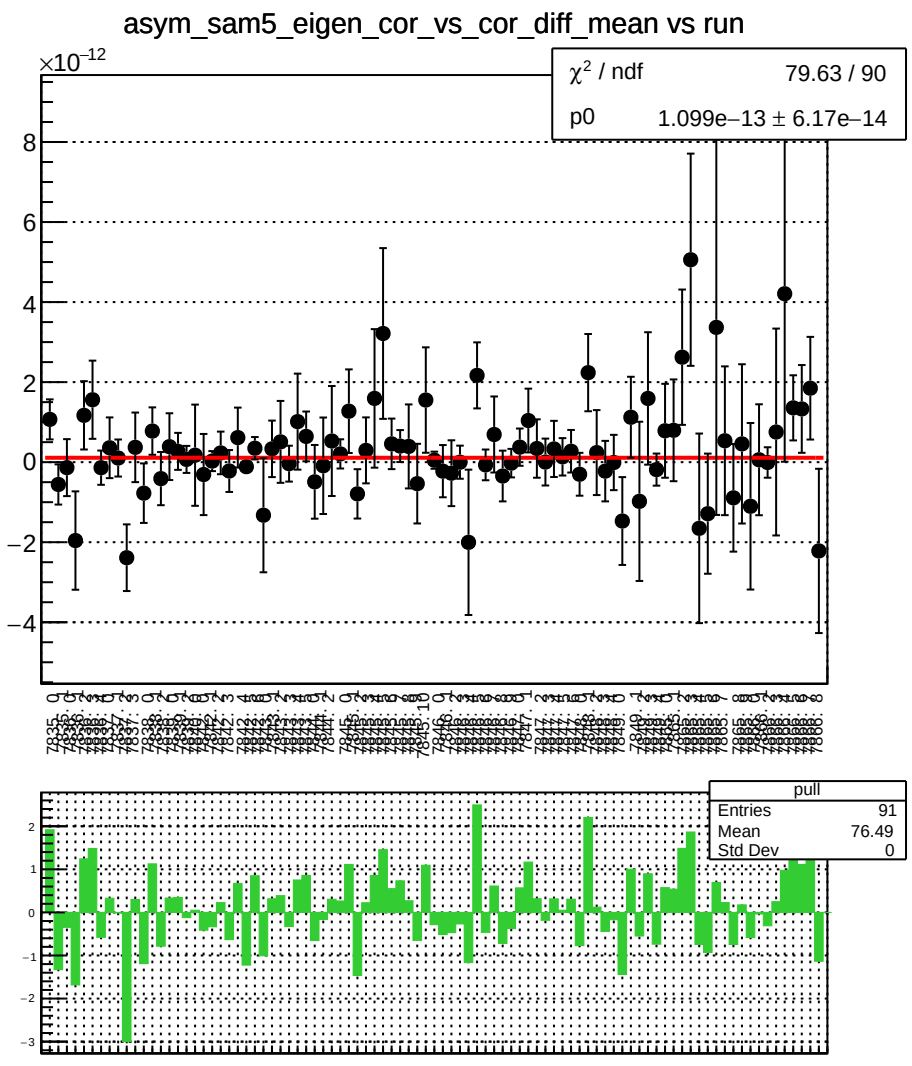

pull1D
Entries 91
Mean −0.007694
Std Dev 1.126

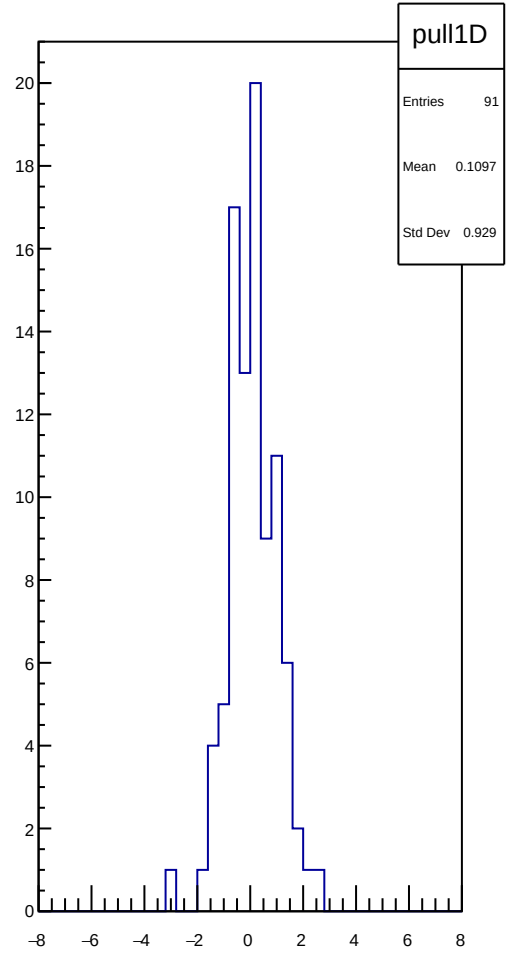

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.393e+04 / 90
p0 68.16 ± 0.05181
130
120
110
100
90
80
70
60
50

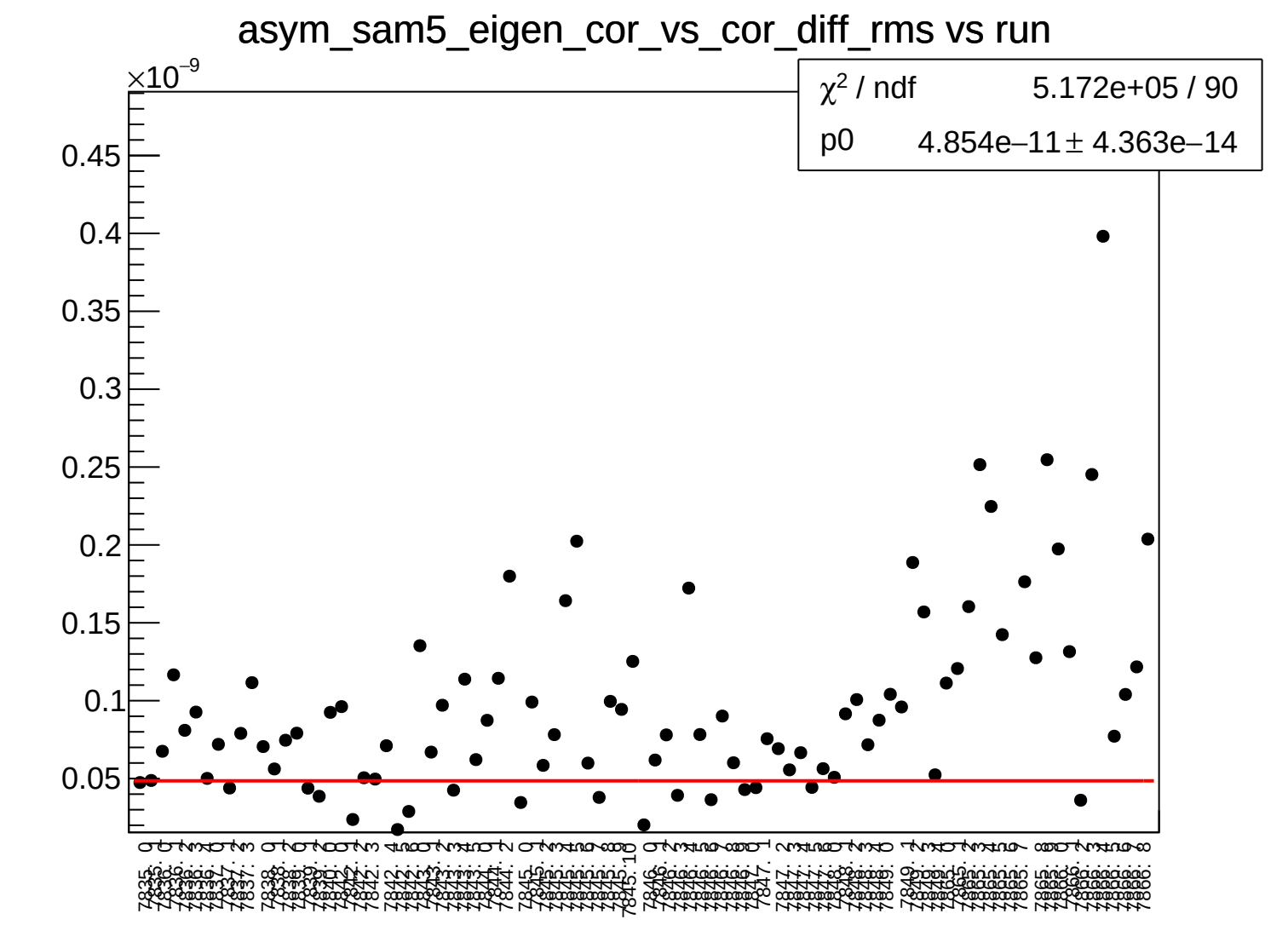

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 0.007343 ± 0.07326
pull
Entries 91
Mean 122.5
Std Dev 0

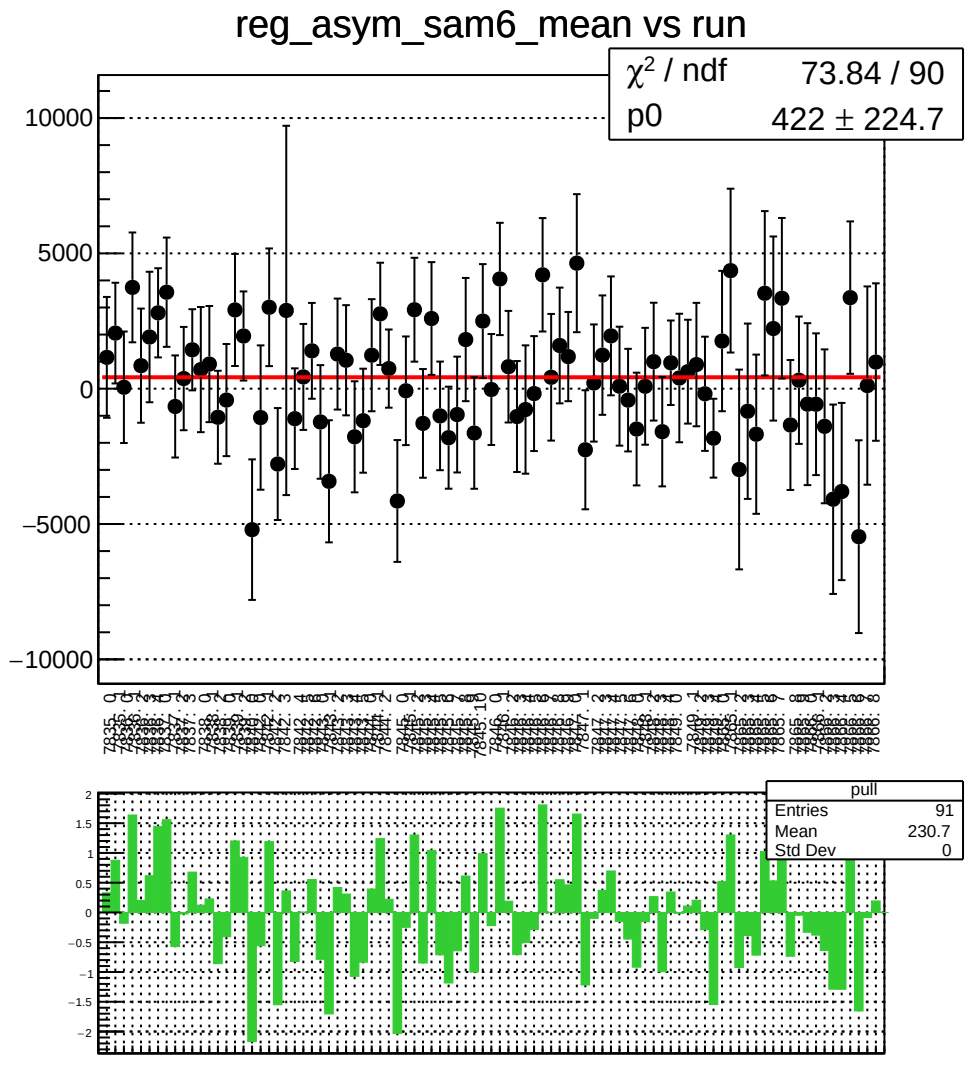

pull1D
Entries 91
Mean −0.007694
Std Dev 1.126

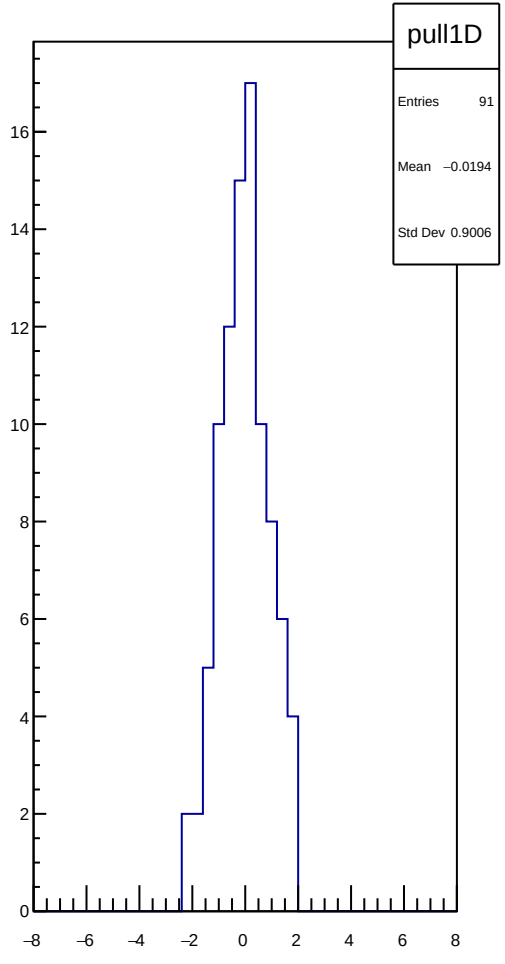

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.393e+04 / 90
p0 68.16 ± 0.05181
130
120
110
100
90
80
70
60
50

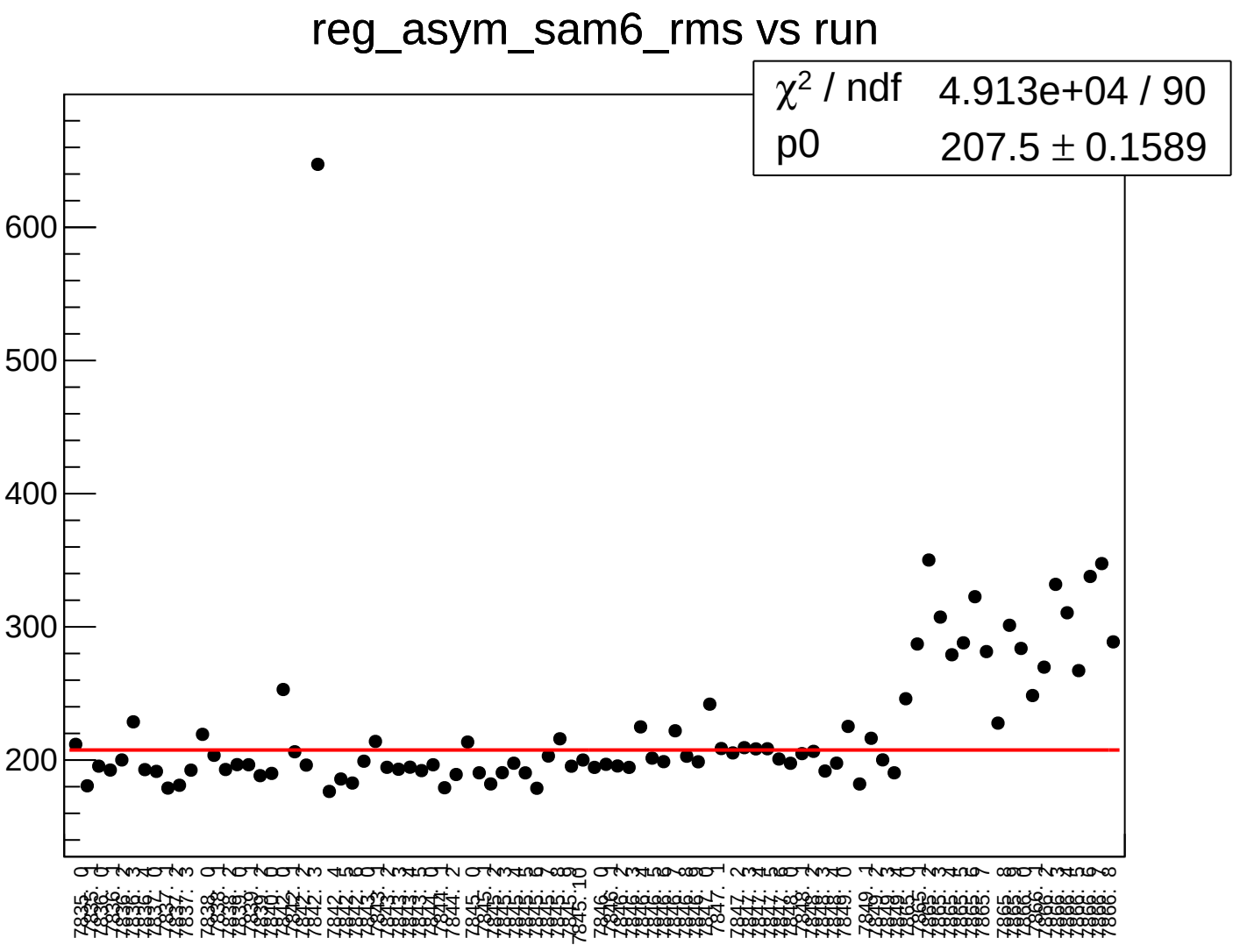

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.63 / 90
p0 1.099e−13 ± 6.17e−14
pull
Entries 91
Mean 76.49
Std Dev 0

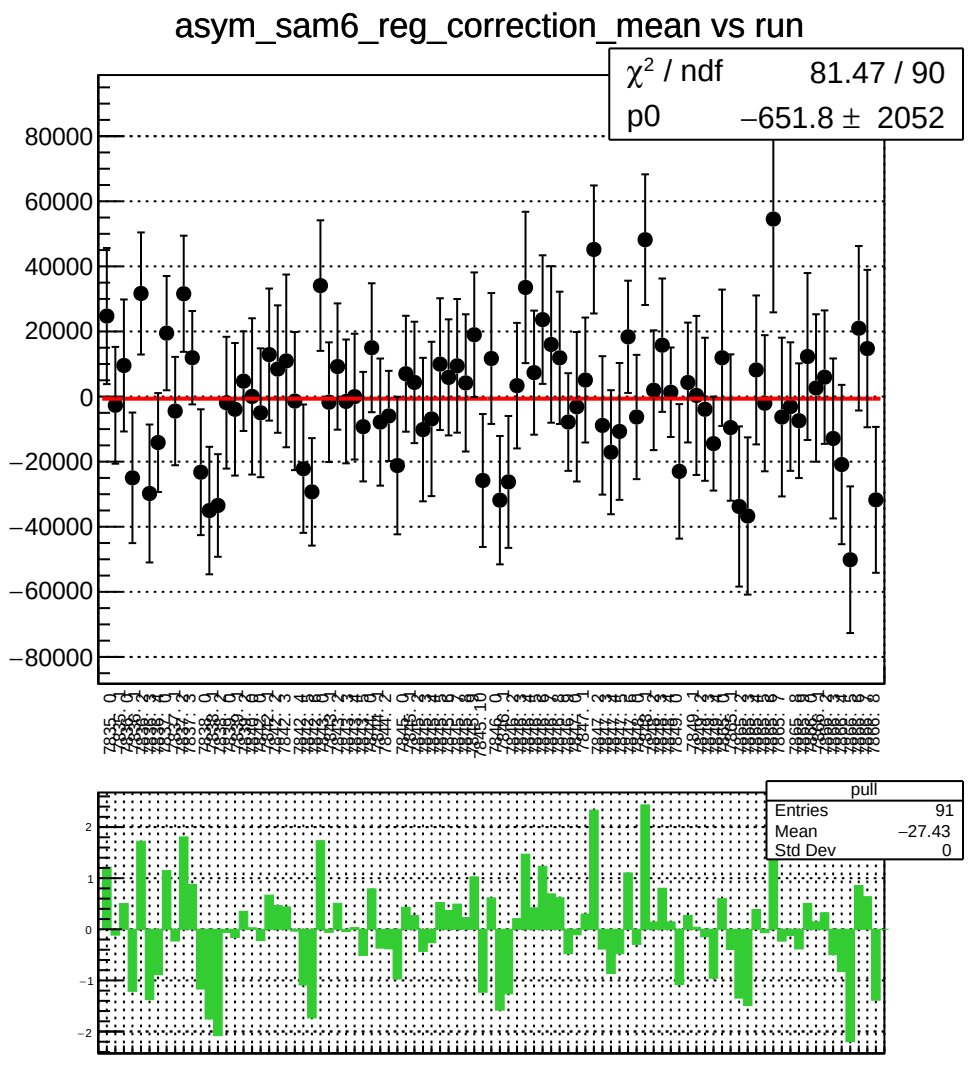

pull1D
Entries 91
Mean 0.1097
Std Dev 0.929

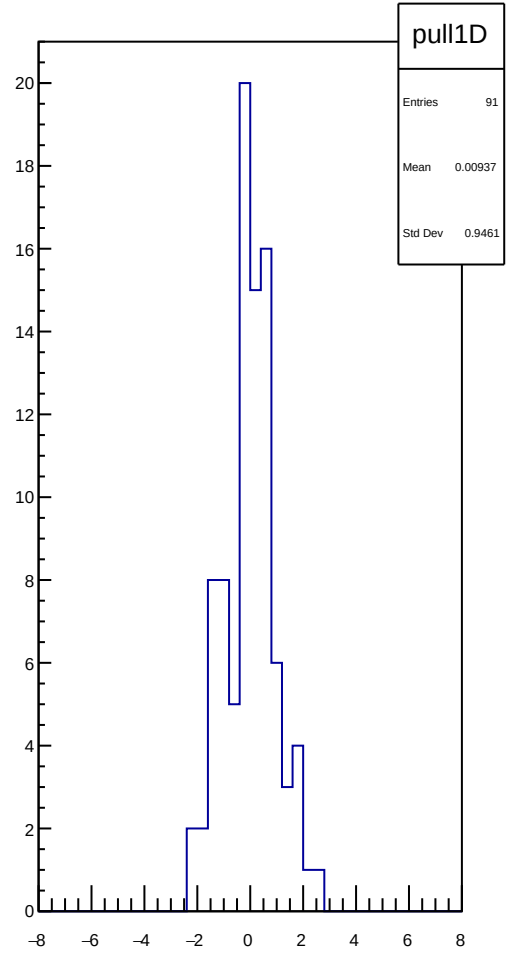

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.172e+05 / 90
p0 4.854e−11 ± 4.363e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

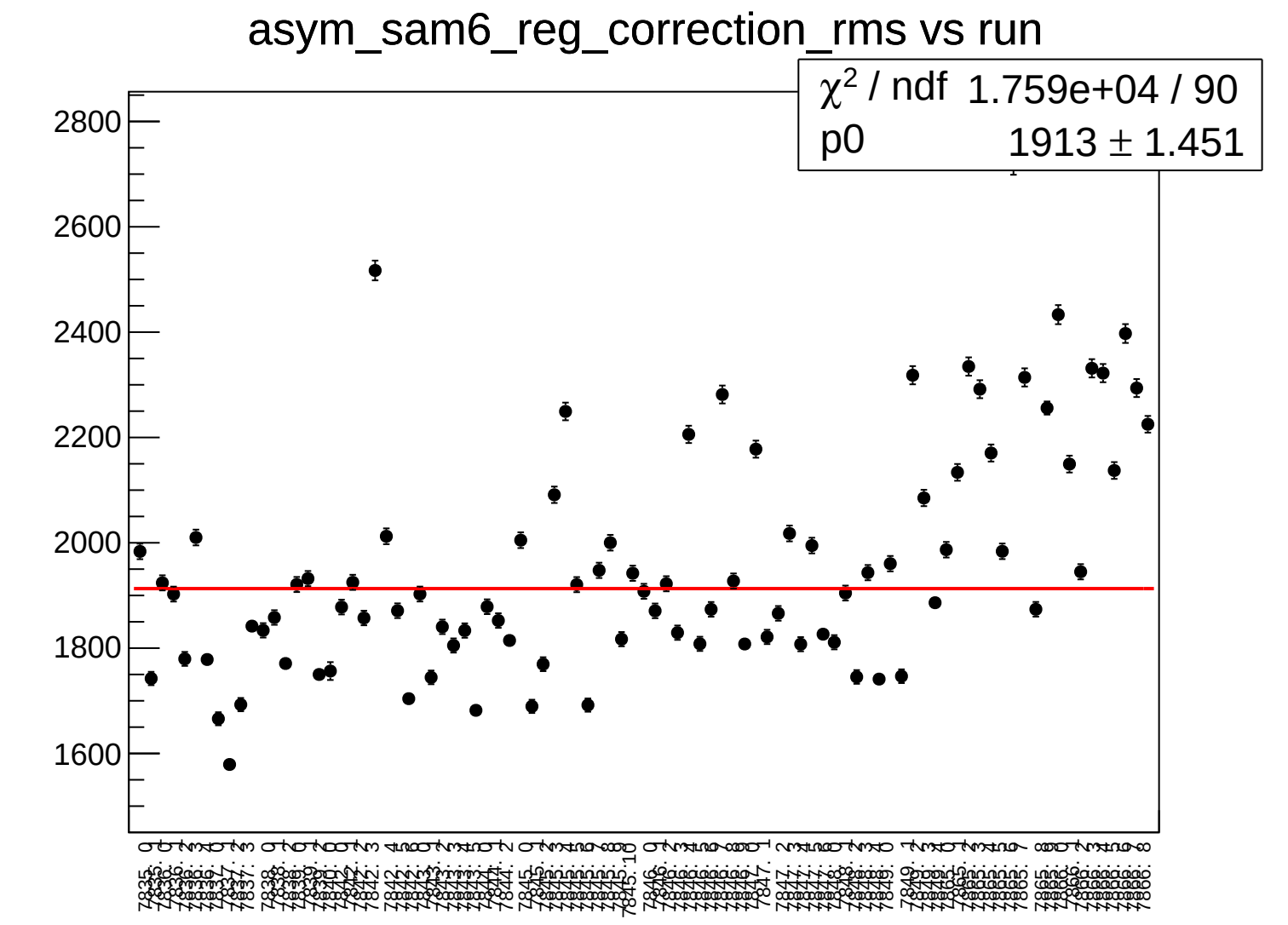

reg_asym_sam6_mean vs run
χ² / ndf 73.84 / 90
p0 422 ± 224.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 230.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

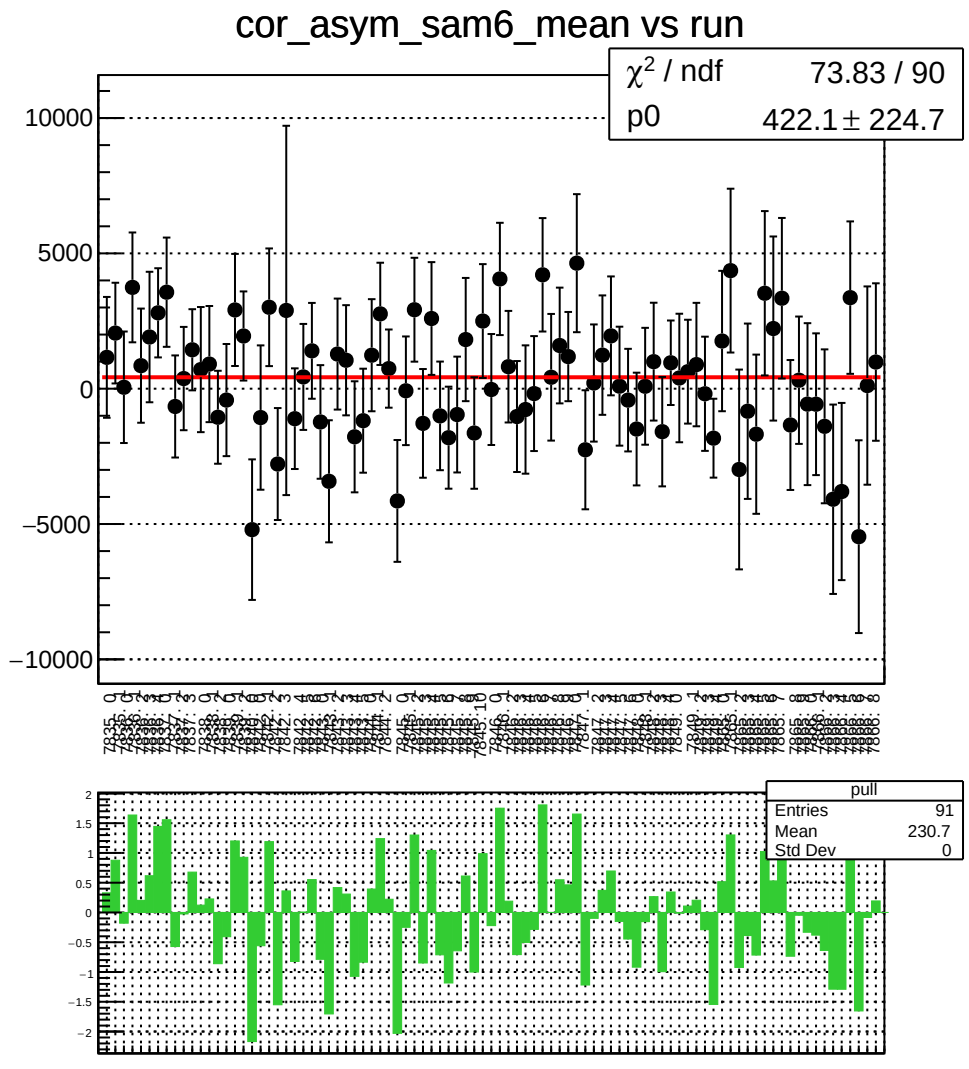

pull1D
Entries 91
Mean −0.0194
Std Dev 0.9006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

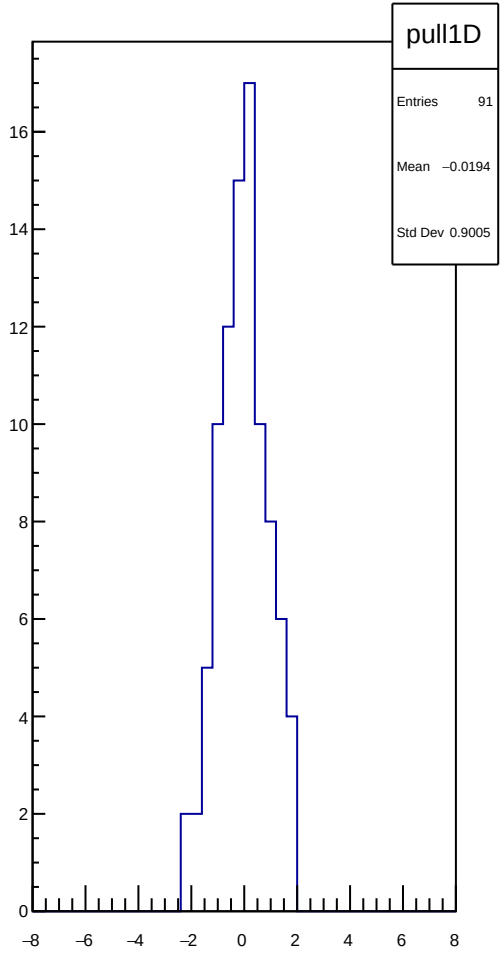

reg_asym_sam6_rms vs run
χ² / ndf 4.913e+04 / 90
p0 207.5 ± 0.1589
600
500
400
300
200

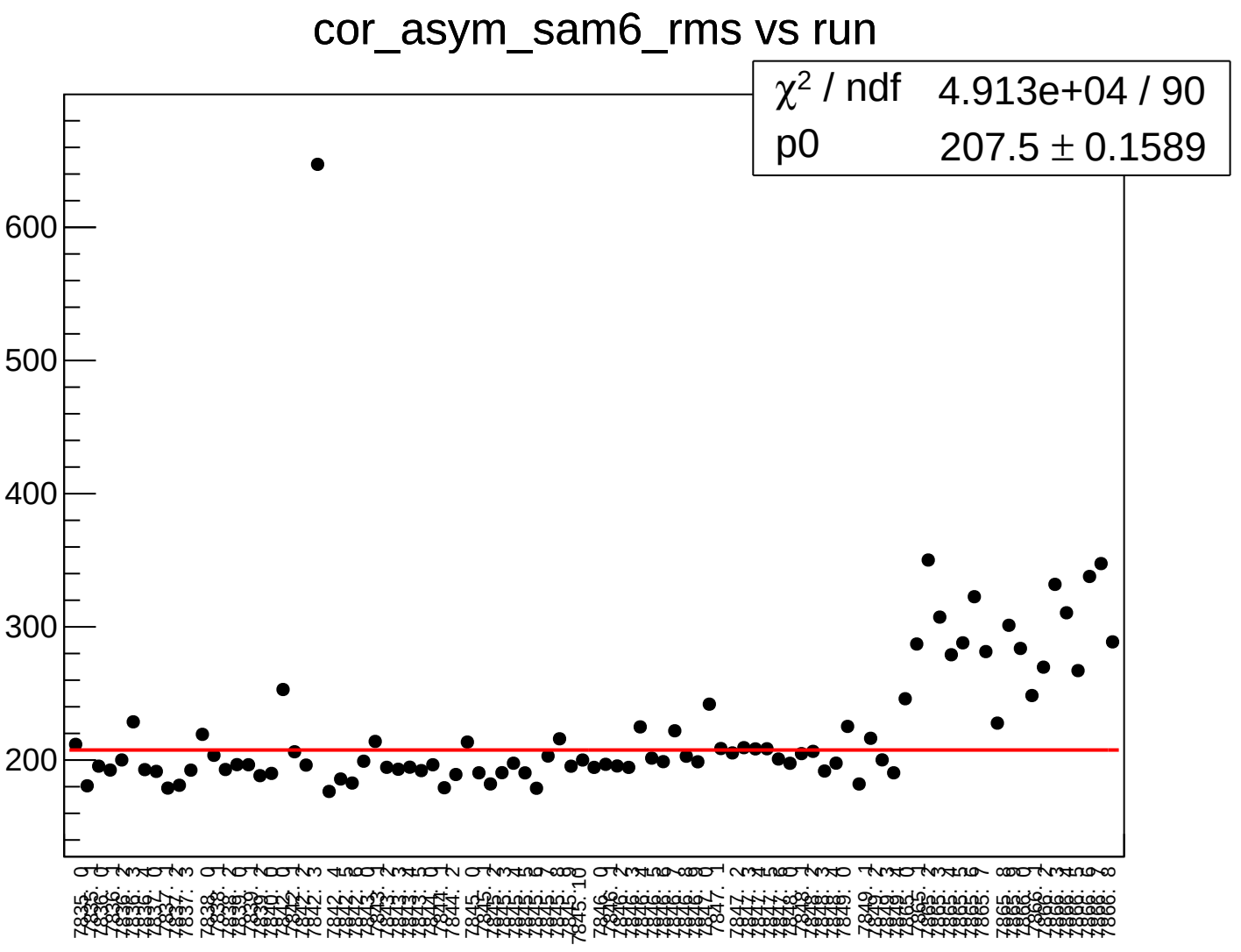

asym_sam6_reg_correction_mean vs run
χ² / ndf 81.47 / 90
p0 −651.8 ± 2052
pull
Entries 91
Mean −27.43
Std Dev 0

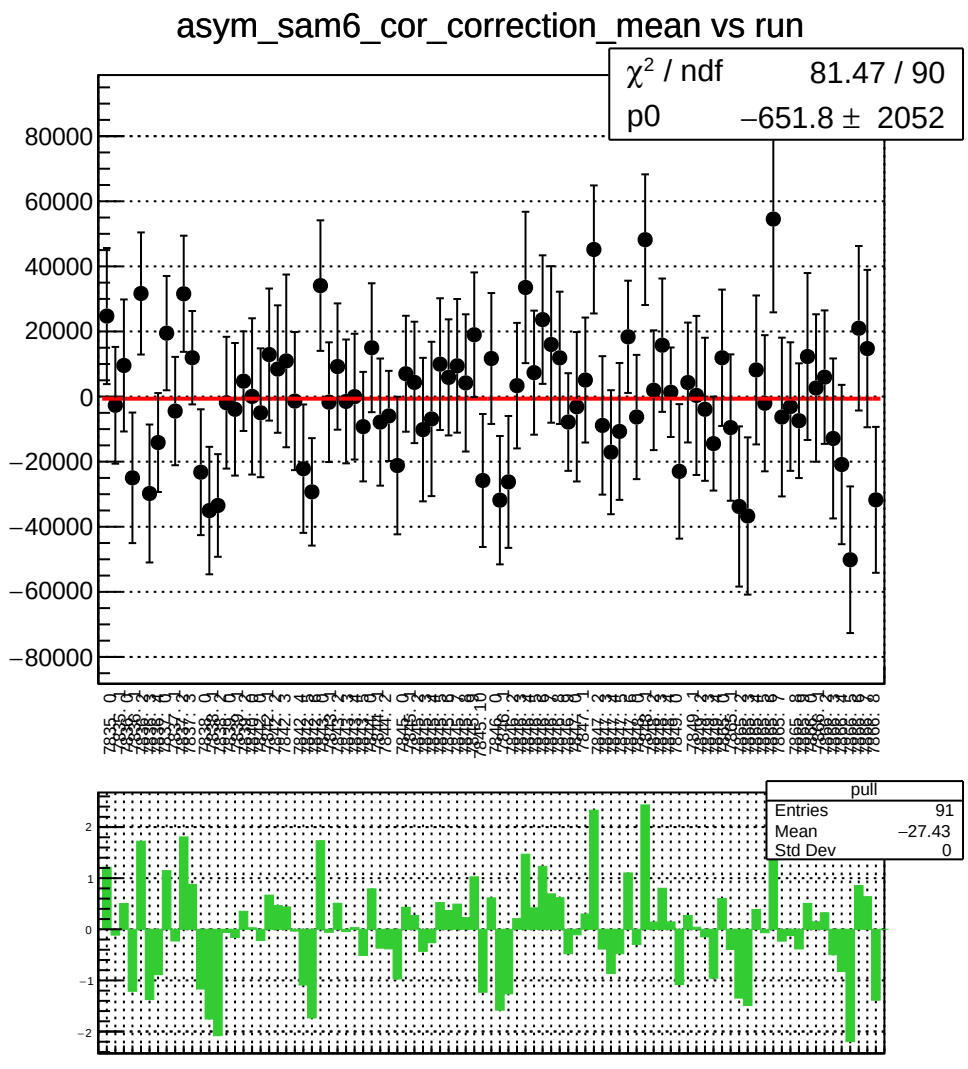

pull1D
Entries 91
Mean 0.00937
Std Dev 0.9461

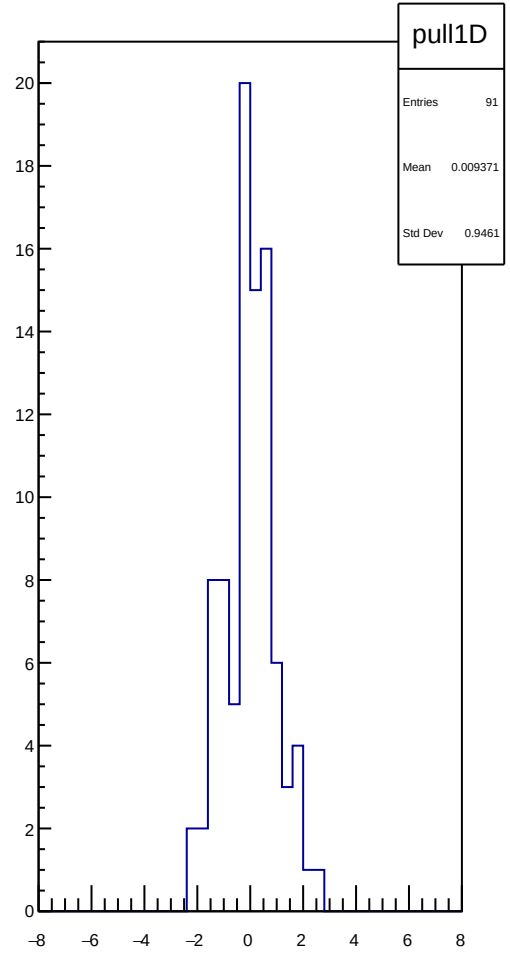

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.759e+04 / 90
p0 1913 ± 1.451
2800
2600
2400
2200
2000
1800
1600


cor_asym_sam6_mean vs run
χ² / ndf 73.83 / 90
p0 422.1 ± 224.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 230.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

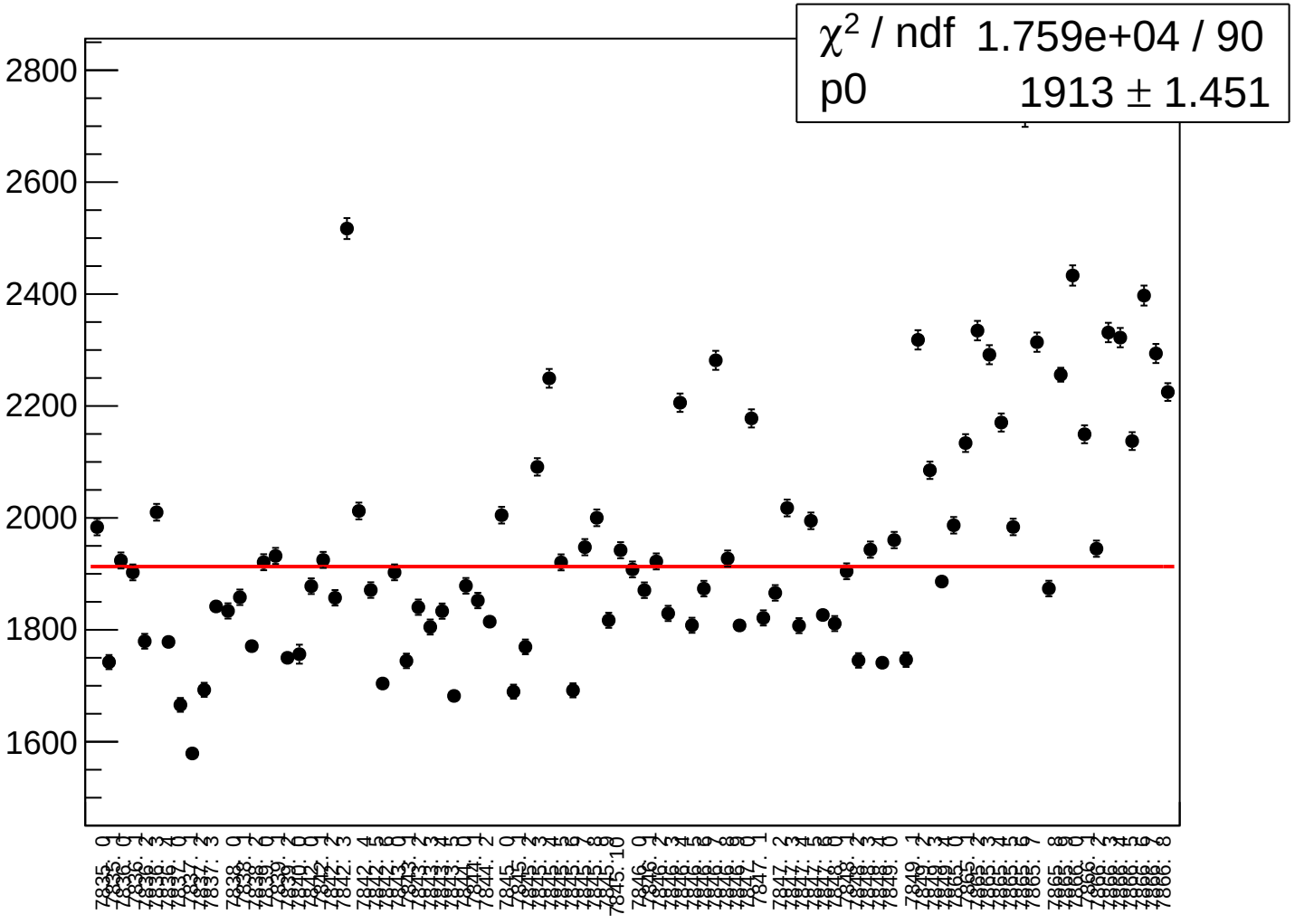

pull1D
Entries 91
Mean −0.0194
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

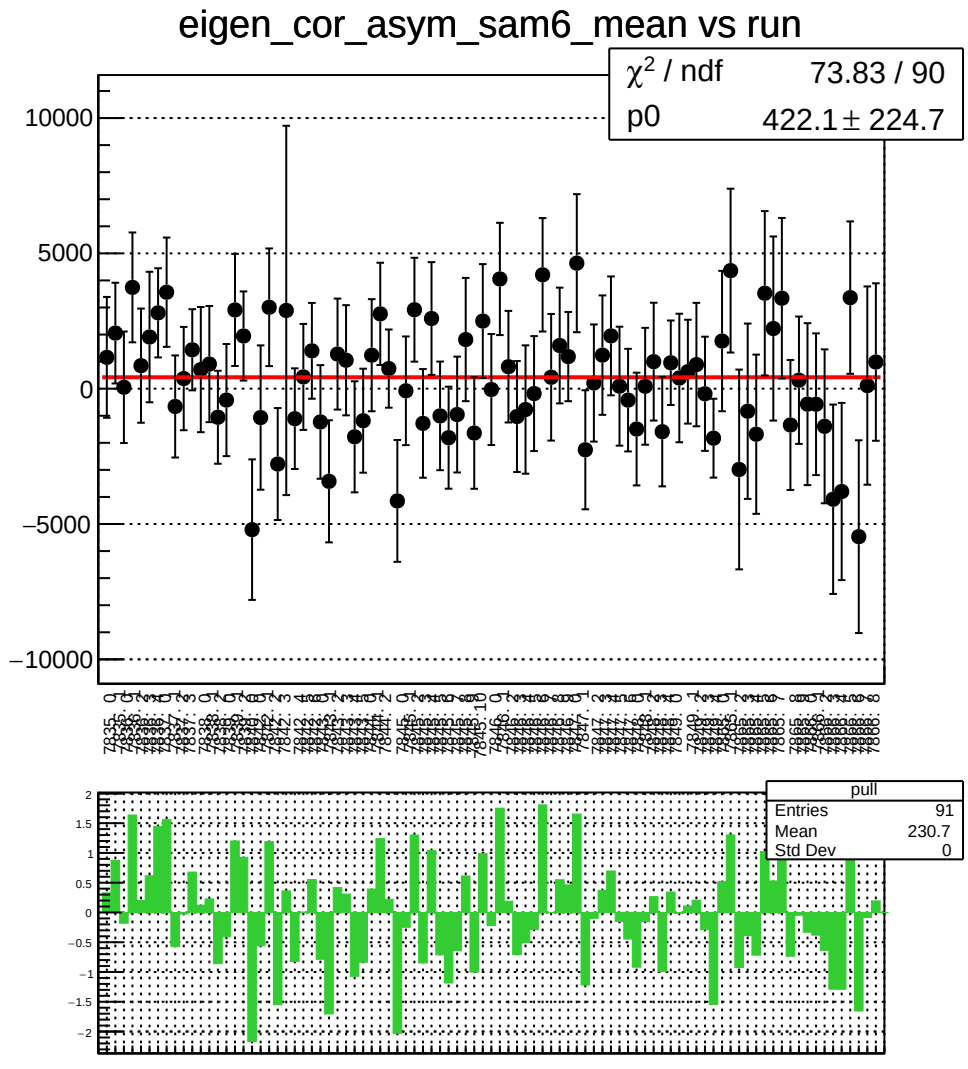

cor_asym_sam6_rms vs run
χ² / ndf 4.913e+04 / 90
p0 207.5 ± 0.1589
600
500
400
300
200

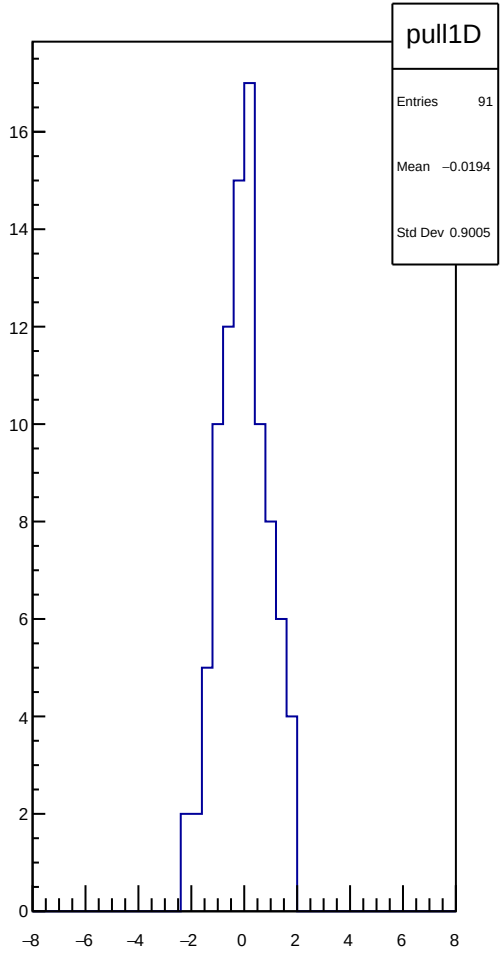

asym_sam6_cor_correction_mean vs run
χ² / ndf 81.47 / 90
p0 −651.8 ± 2052
pull
Entries 91
Mean −27.43
Std Dev 0

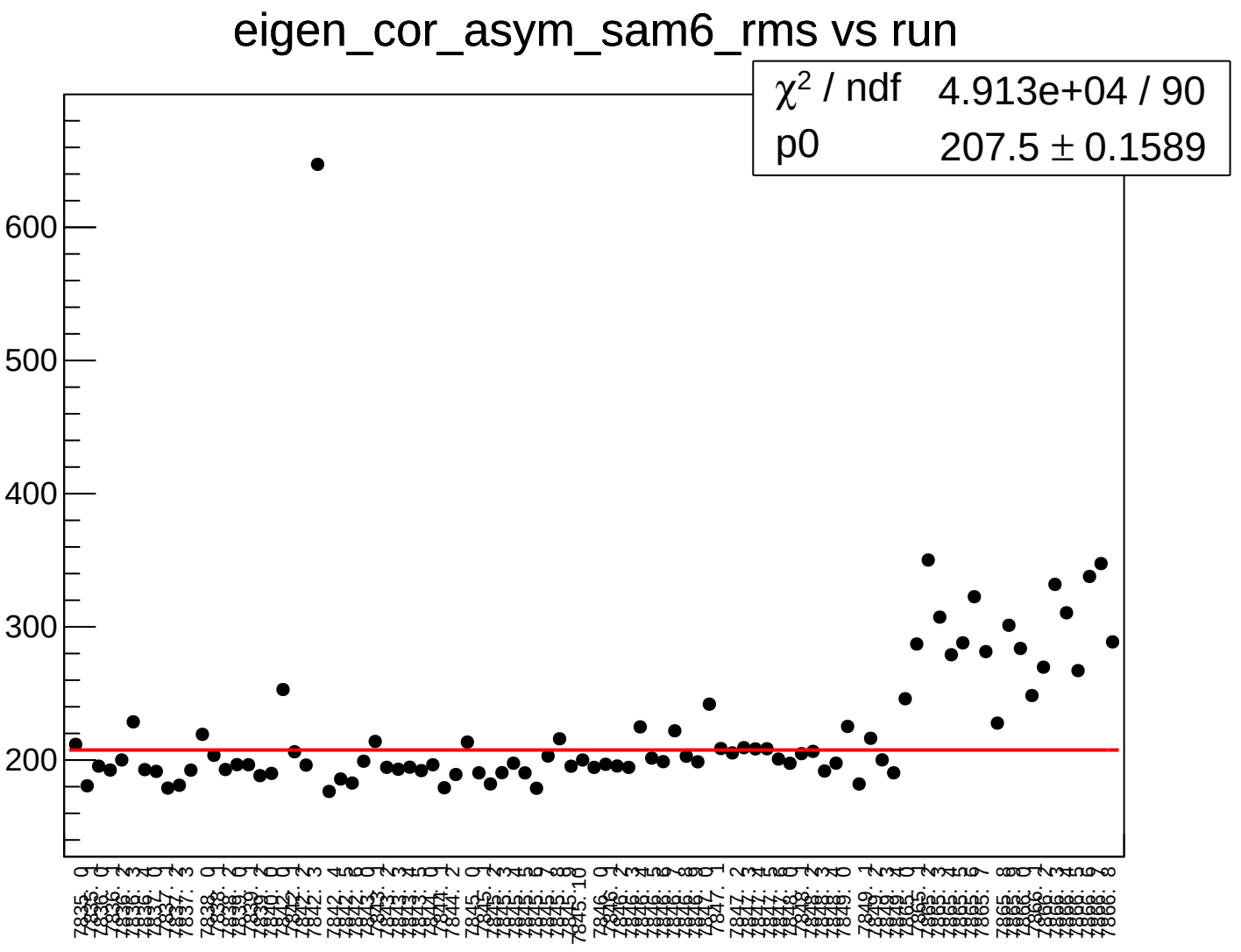

pull1D
Entries 91
Mean 0.009371
Std Dev 0.9461

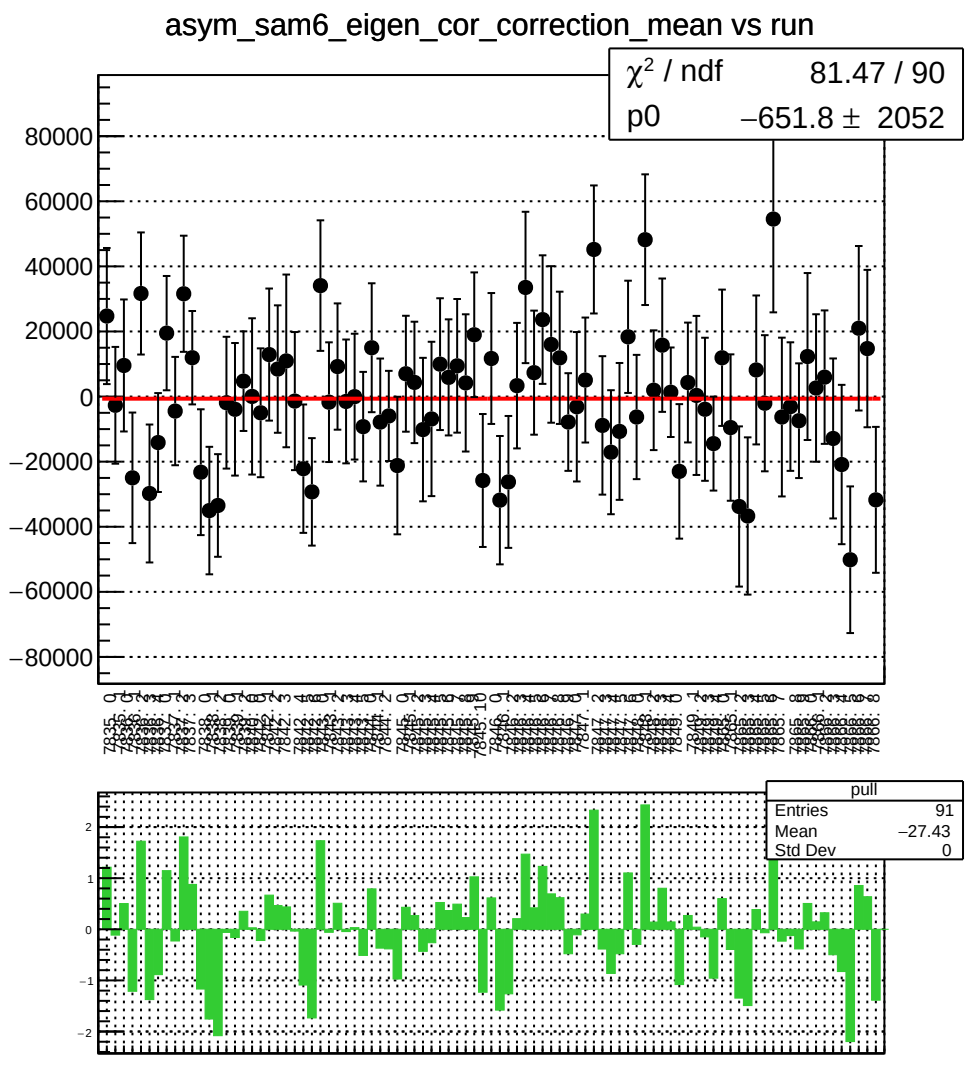
asym_sam6_cor_correction_rms vs run

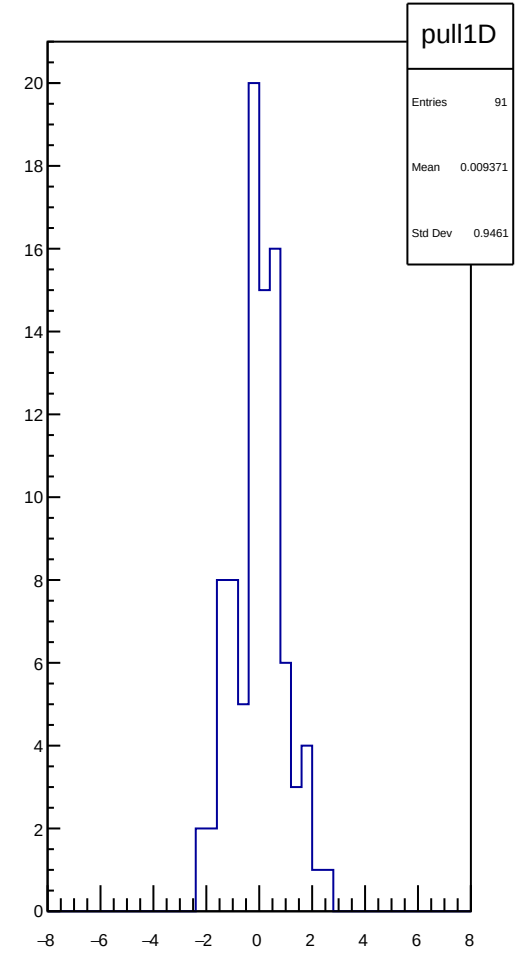


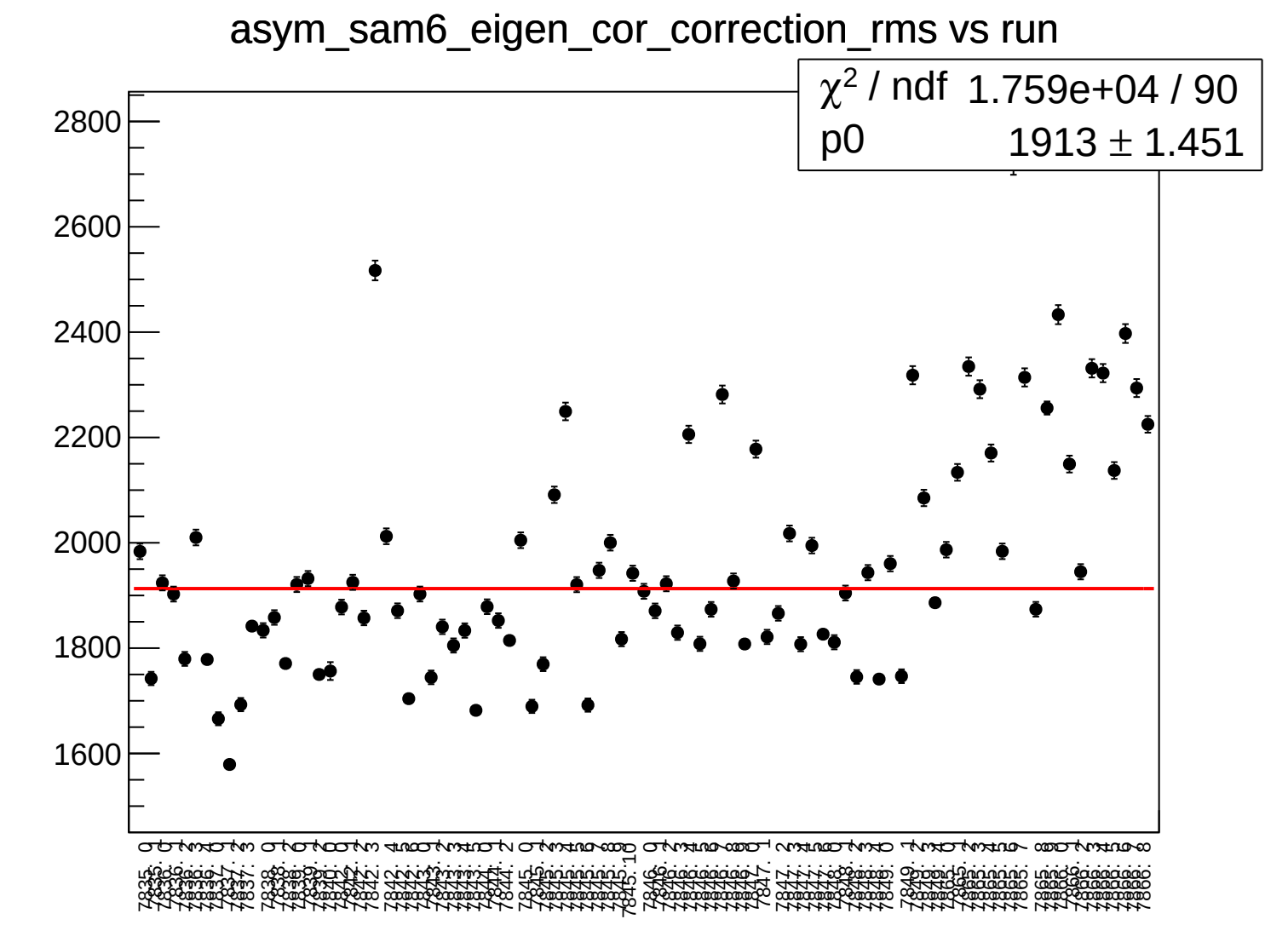

eigen_cor_asym_sam6_mean vs run
χ² / ndf 73.83 / 90
p0 422.1 ± 224.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 230.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

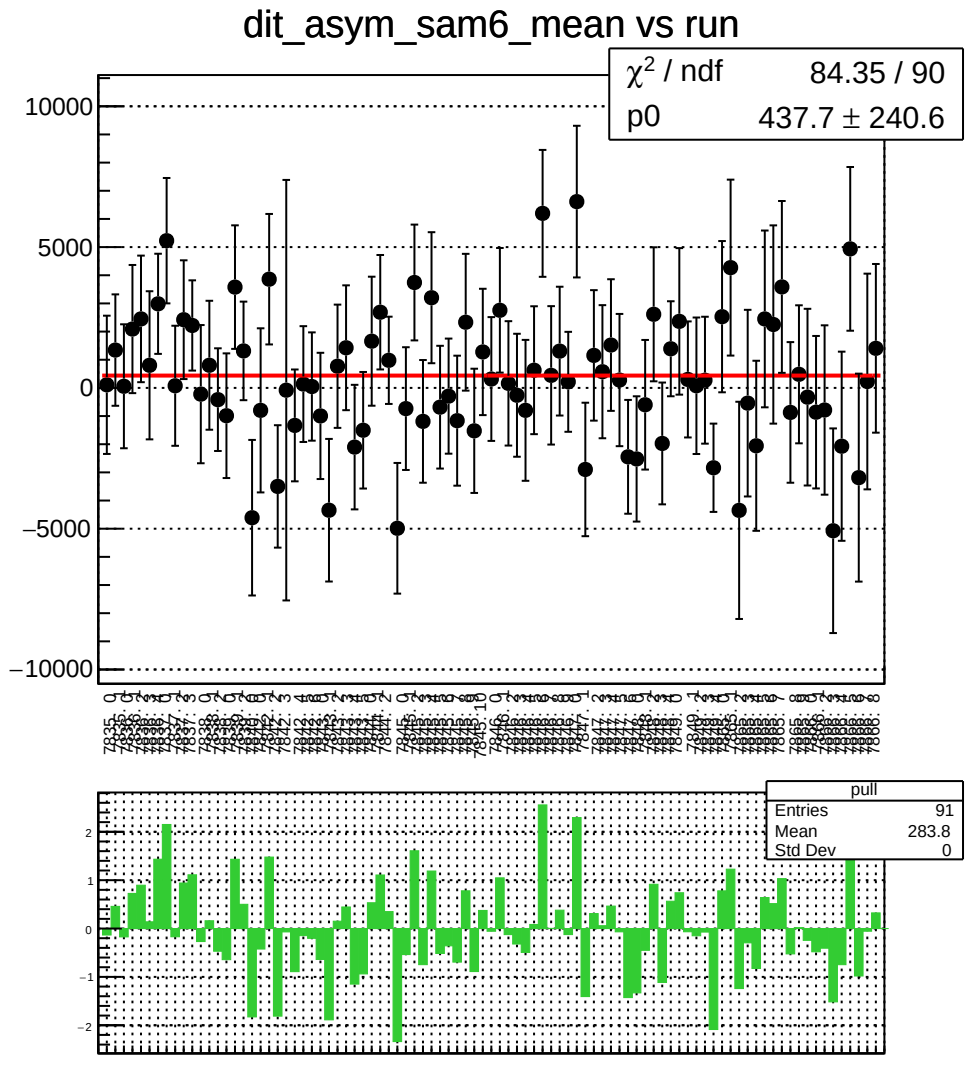

pull1D
Entries 91
Mean −0.0194
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

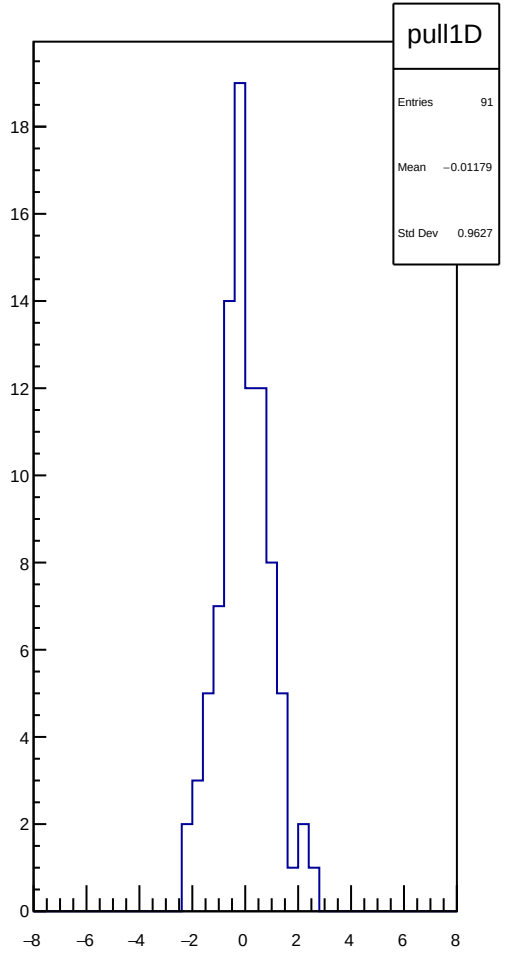

eigen_cor_asym_sam6_rms vs run
χ^2 / ndf 4.913e+04 / 90
p0 207.5 ± 0.1589
600
500
400
300
200

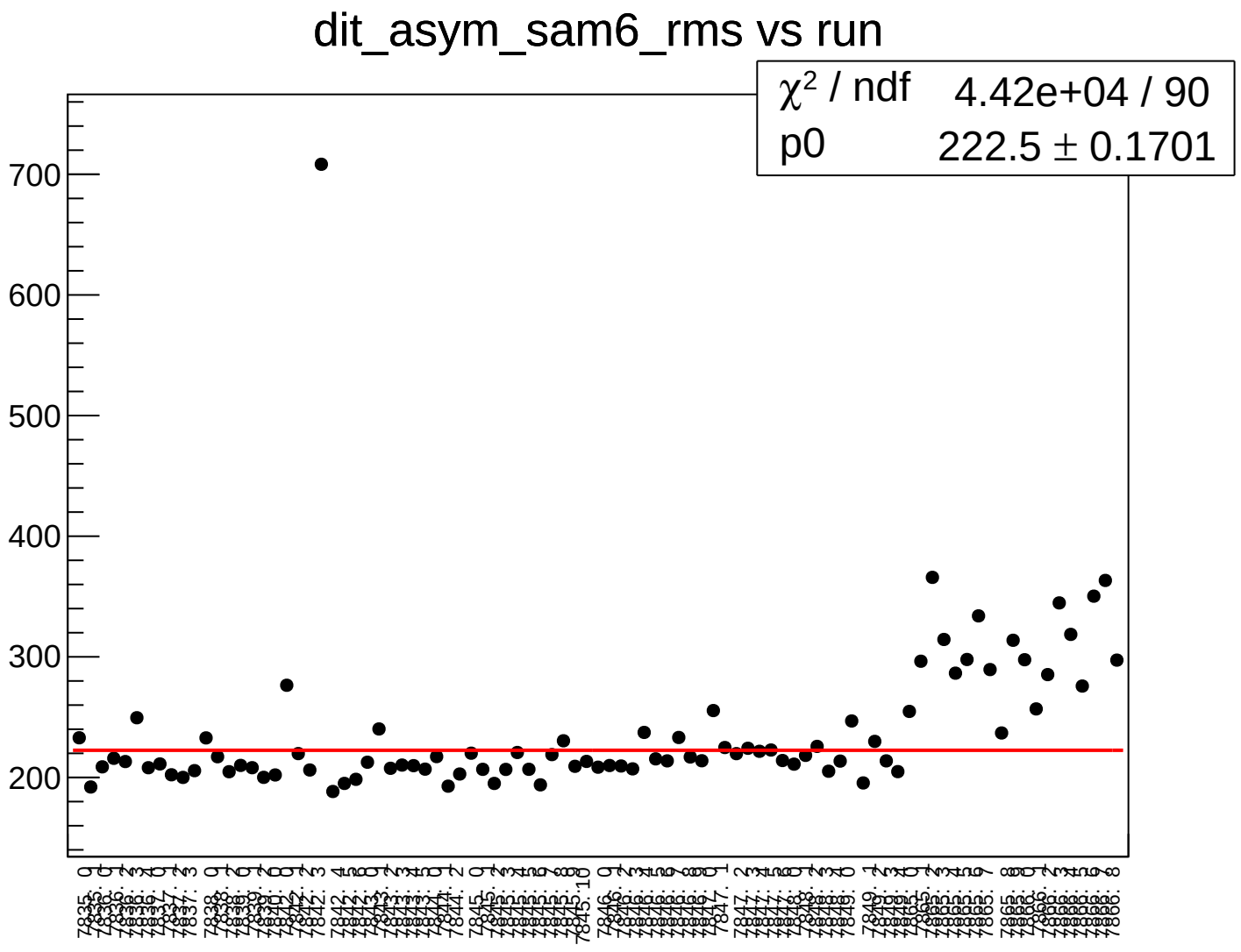

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 81.47 / 90
p0 −651.8 ± 2052
pull
Entries 91
Mean −27.43
Std Dev 0

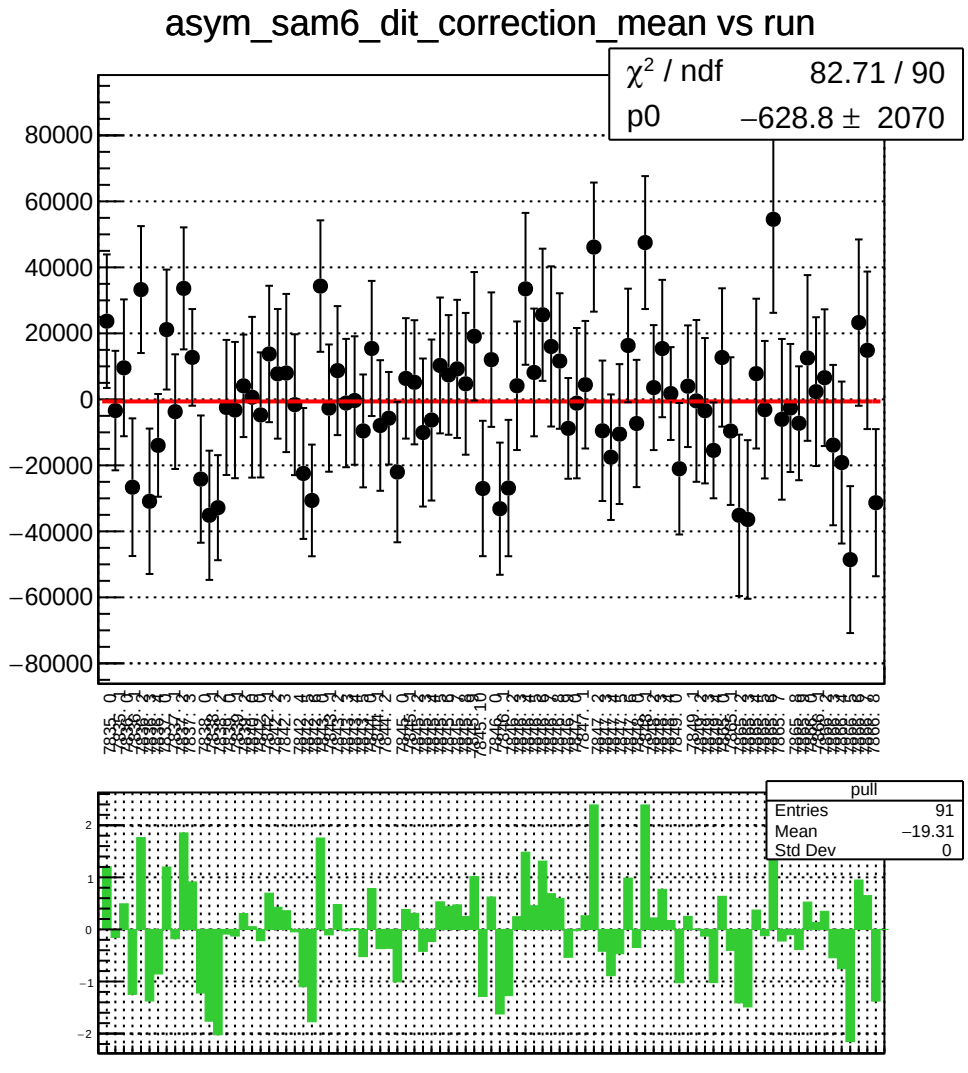

pull1D
Entries 91
Mean 0.009371
Std Dev 0.9461

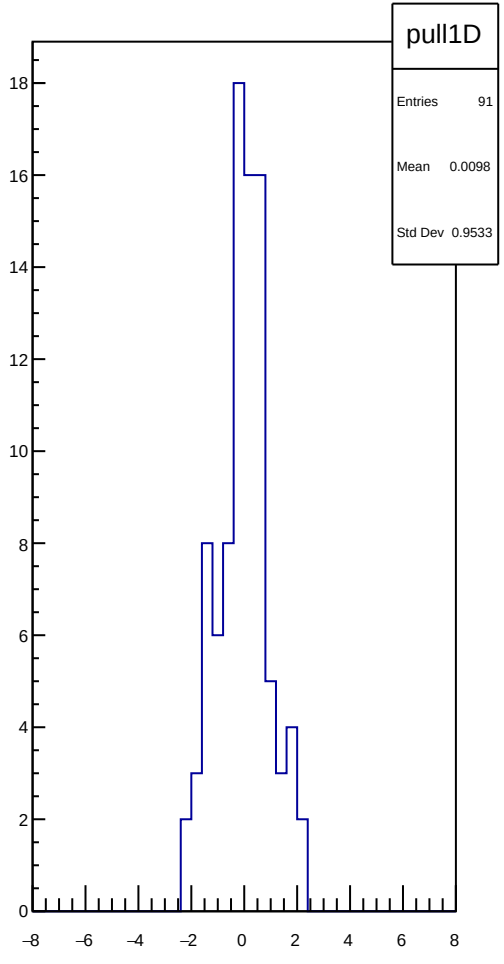

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.759e+04 / 90
p0 1913 ± 1.451
2800
2600
2400
2200
2000
1800
1600

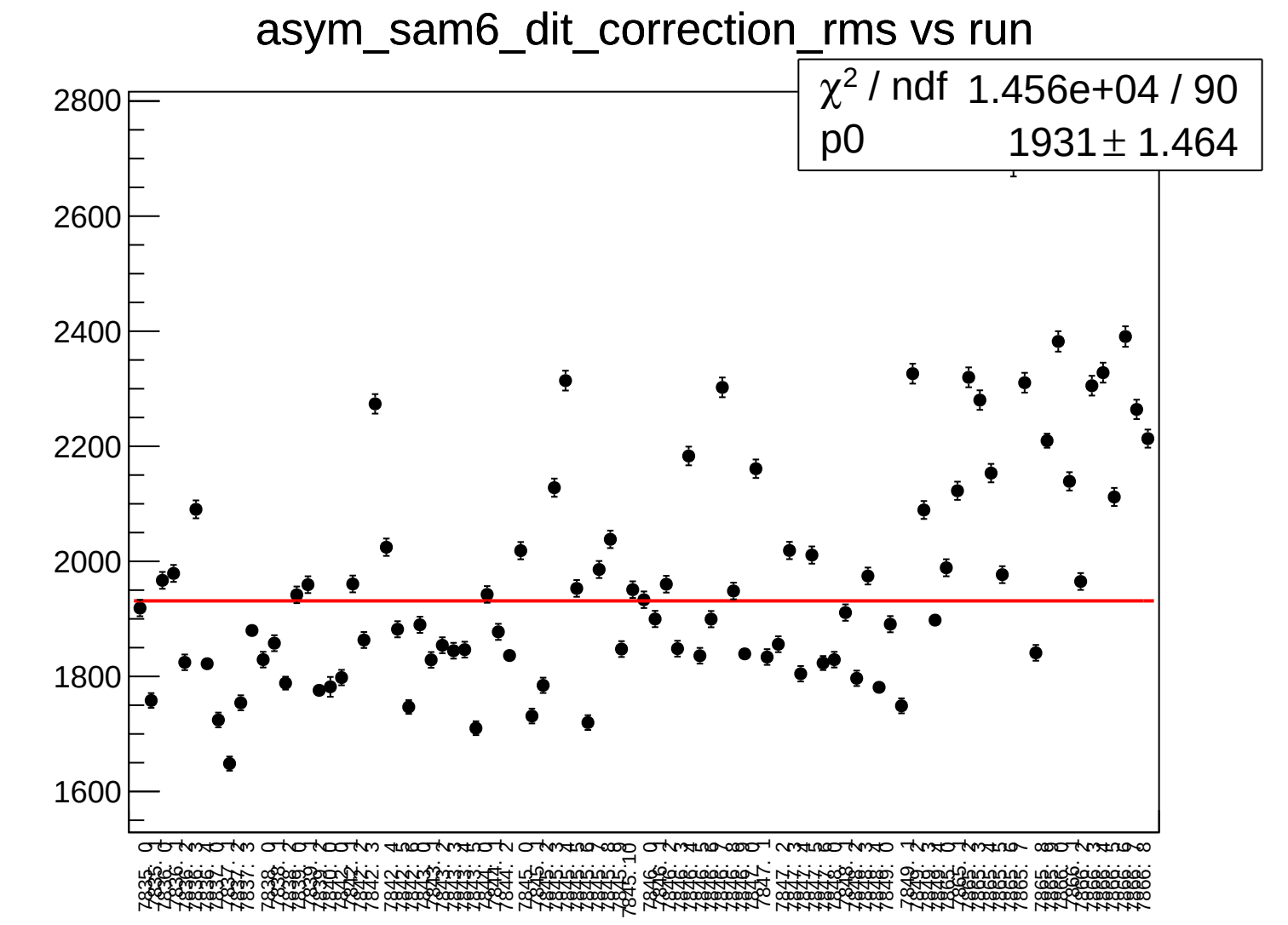

dit_asym_sam6_mean vs run
χ² / ndf 84.35 / 90
p0 437.7 ± 240.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 283.8
Std Dev 0
2
1
0
−1
−2

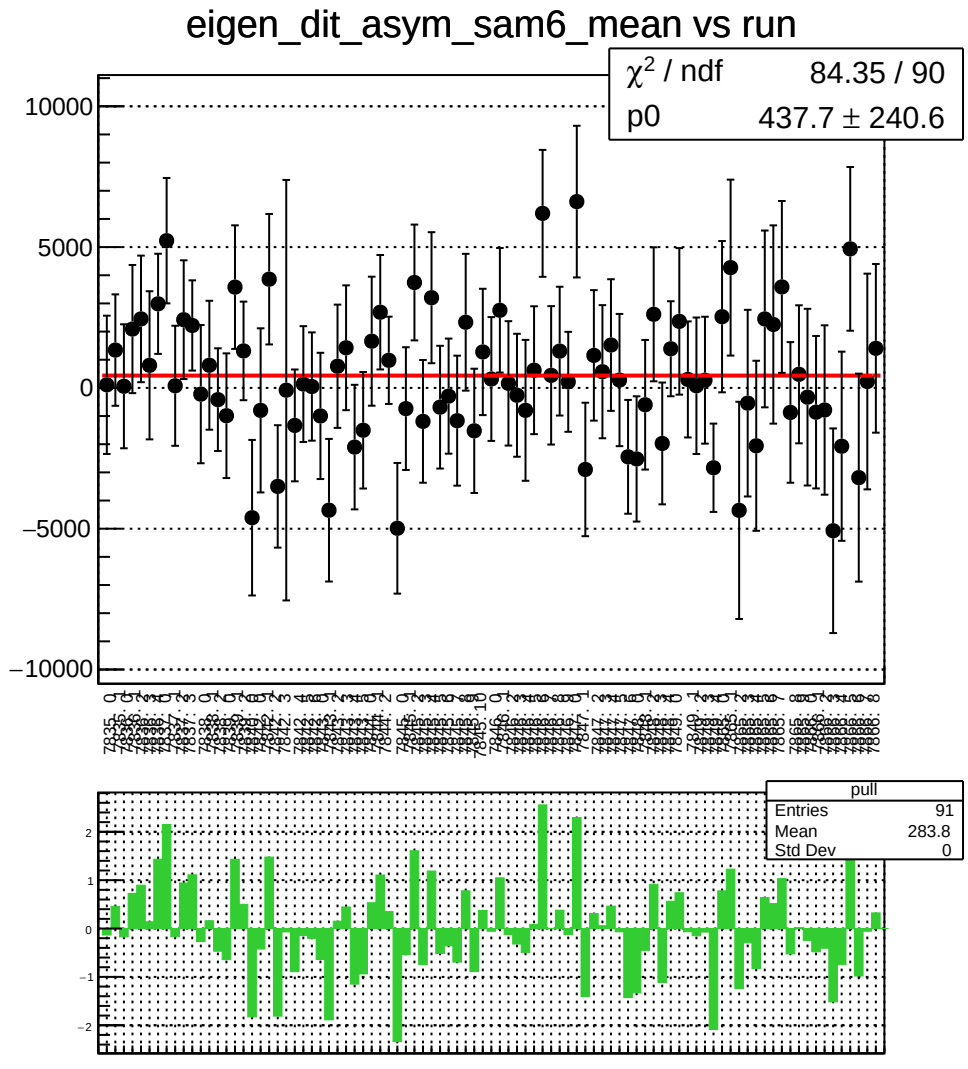

pull1D
Entries 91
Mean −0.01179
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

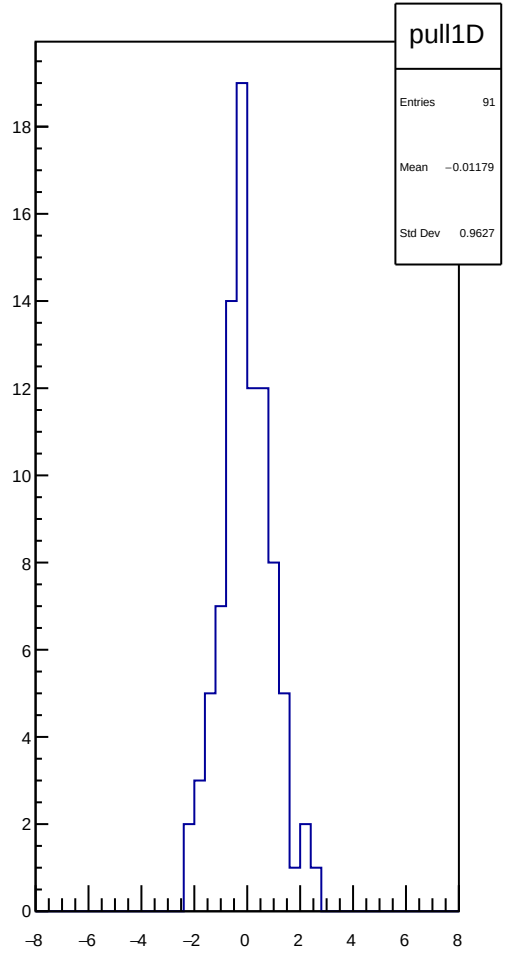

dit_asym_sam6_rms vs run
χ² / ndf 4.42e+04 / 90
p0 222.5 ± 0.1701
700
600
500
400
300
200

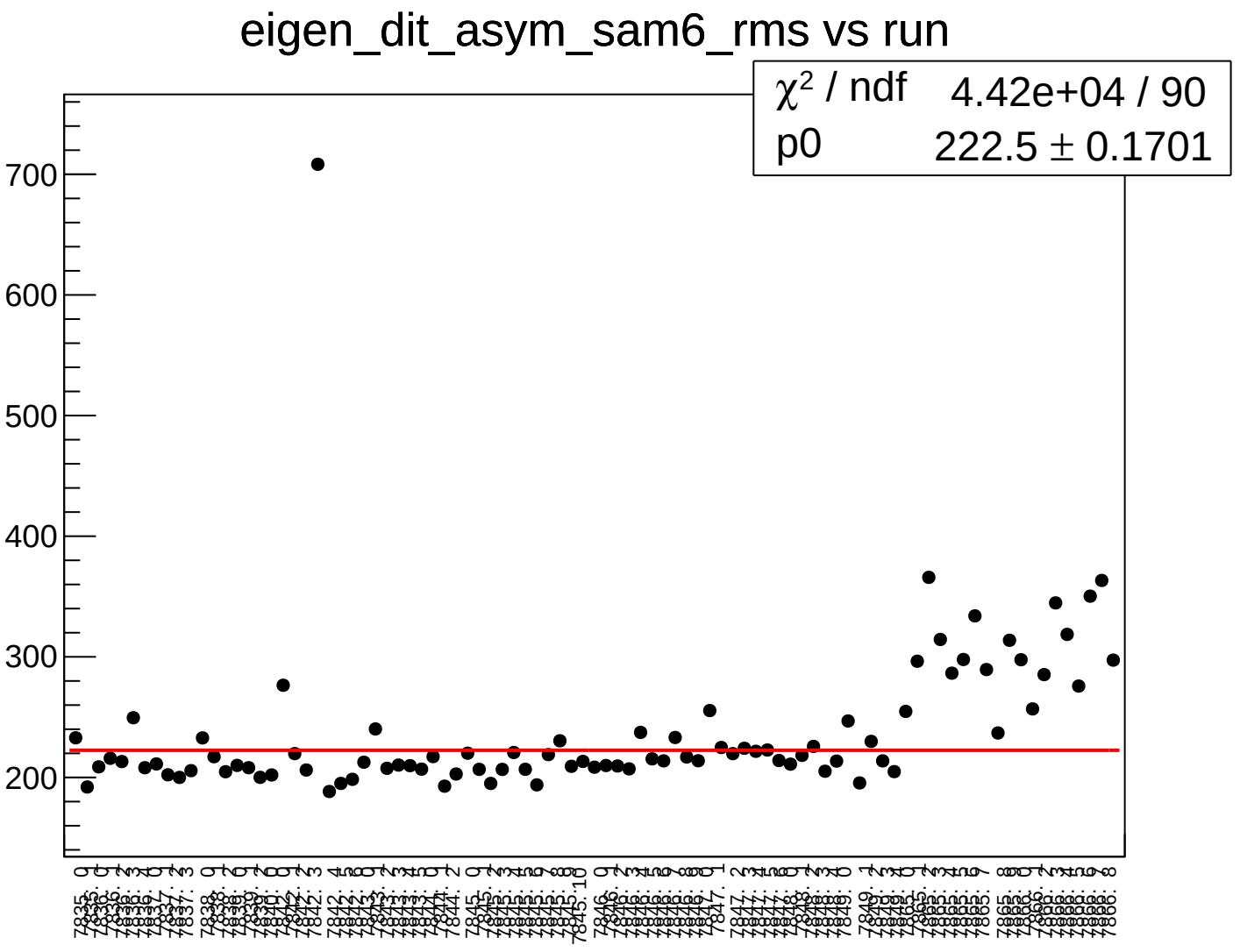

asym_sam6_dit_correction_mean vs run
χ² / ndf 82.71 / 90
p0 −628.8 ± 2070
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −19.31
Std Dev 0
2
1
0
−1
−2

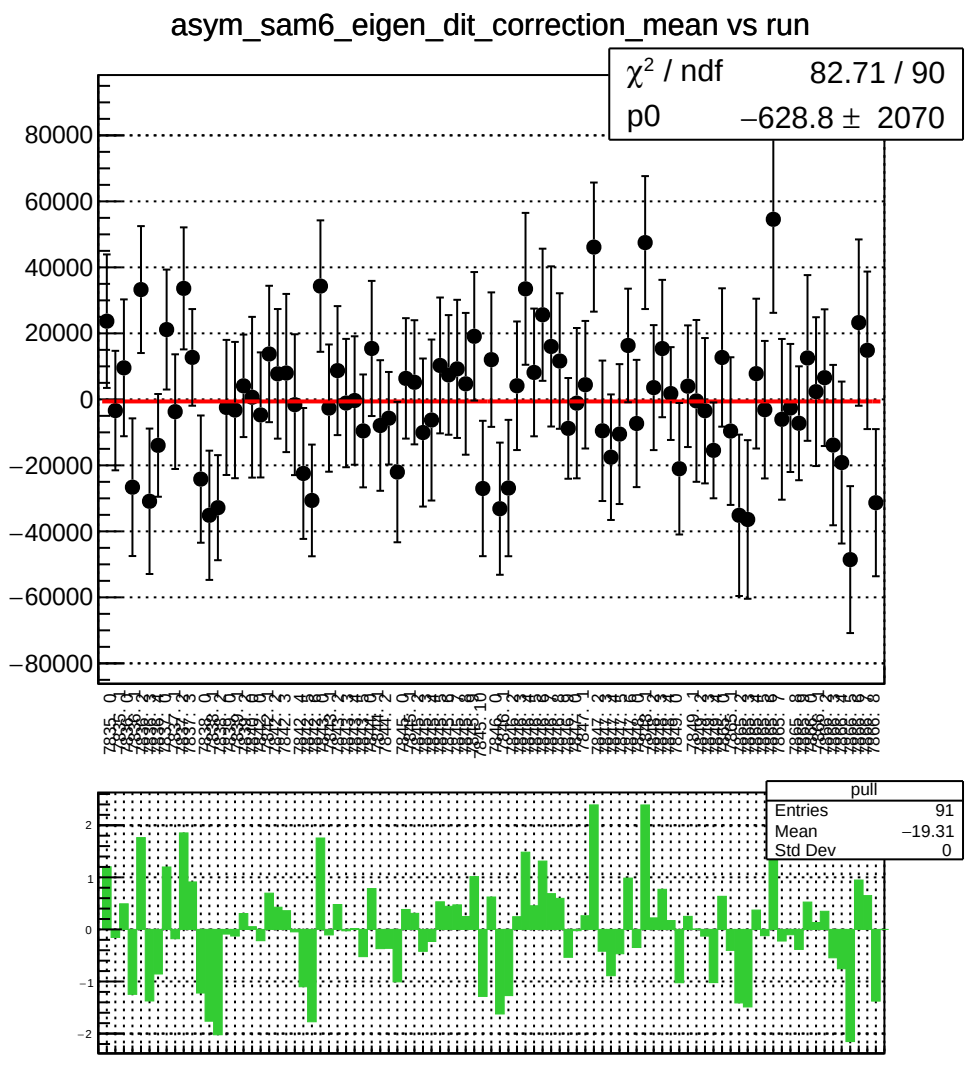

pull1D
Entries 91
Mean 0.0098
Std Dev 0.9533
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

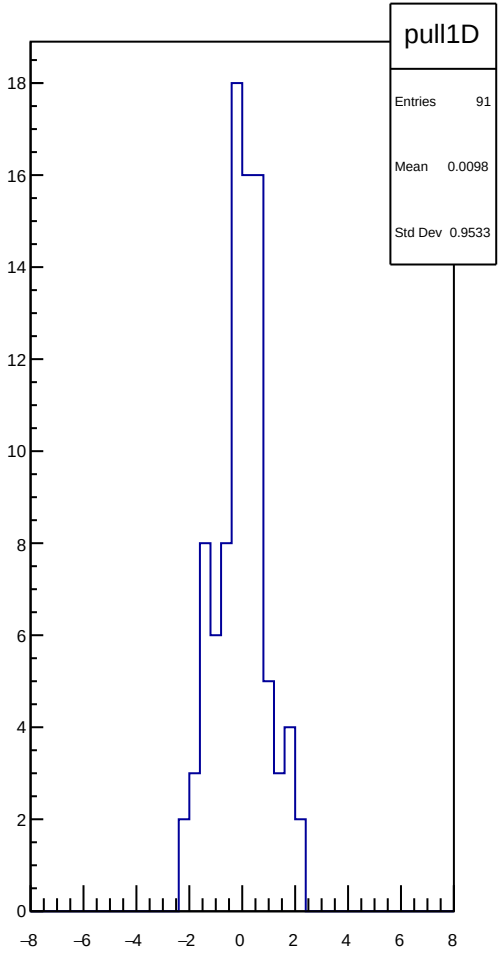

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 90
p0 1931 ± 1.464
2800
2600
2400
2200
2000
1800
1600

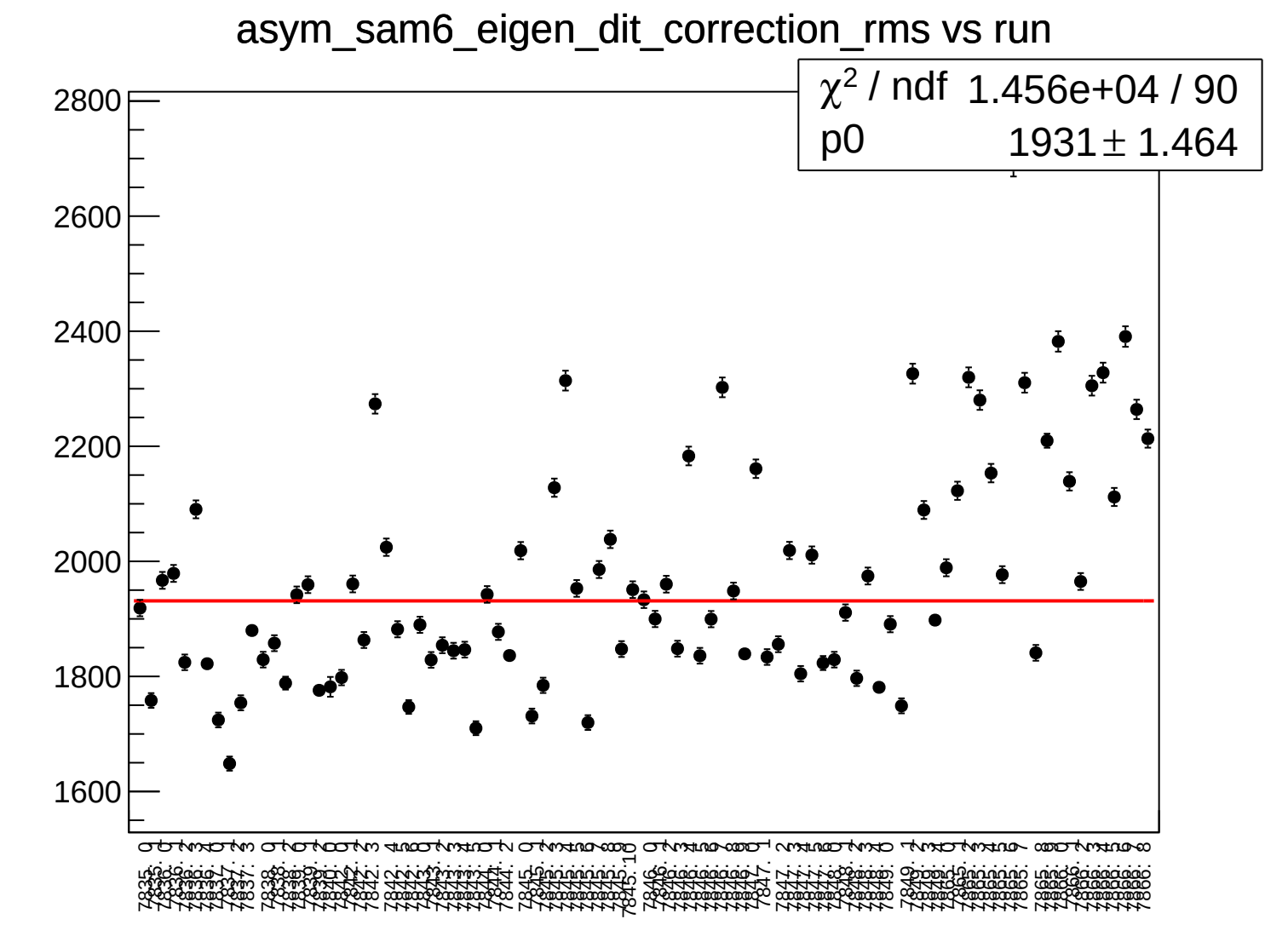

eigen_dit_asym_sam6_mean vs run
χ² / ndf 84.35 / 90
p0 437.7 ± 240.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 283.8
Std Dev 0
2
1
0
−1
−2

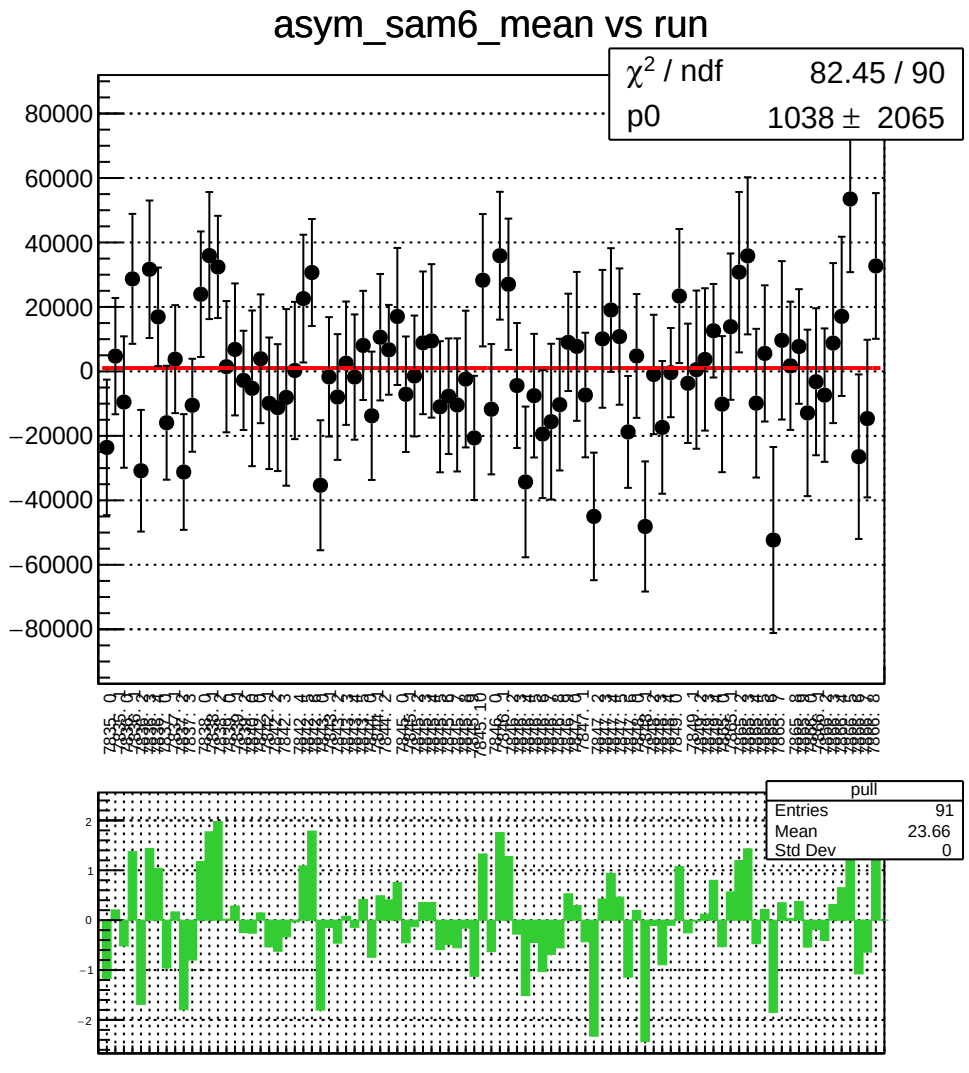

pull1D
Entries 91
Mean −0.01179
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

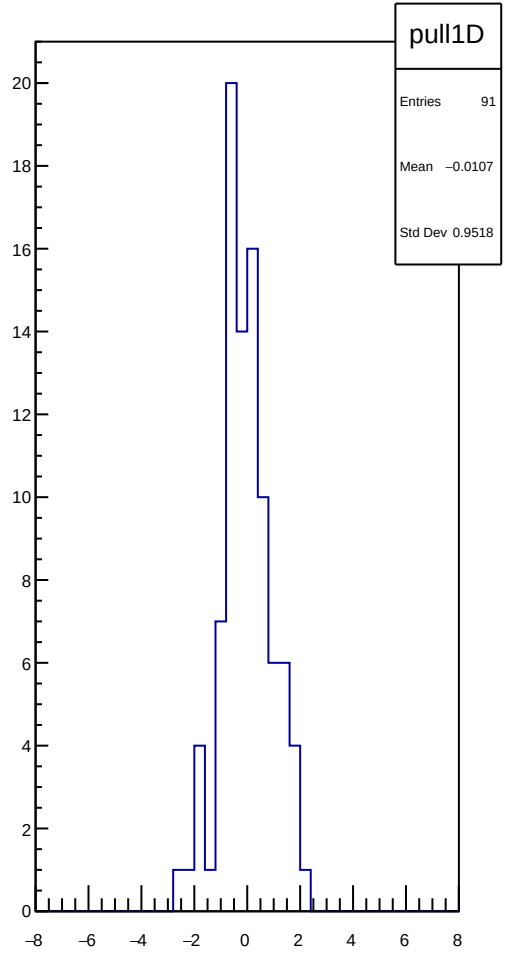

eigen_dit_asym_sam6_rms vs run
χ² / ndf 4.42e+04 / 90
p0 222.5 ± 0.1701
700
600
500
400
300
200

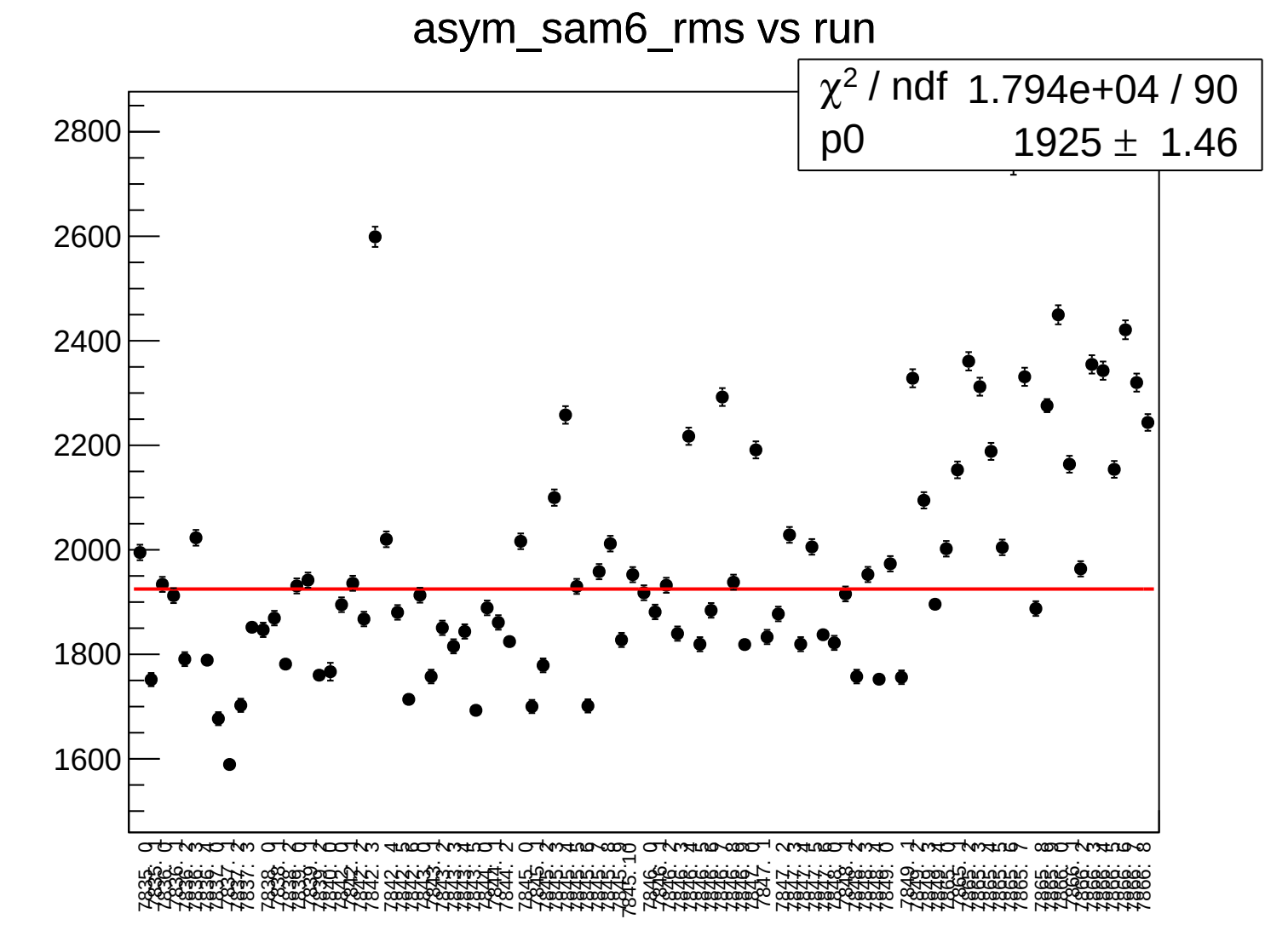

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 82.71 / 90
p0 −628.8 ± 2070
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −19.31
Std Dev 0
2
1
0
−1
−2

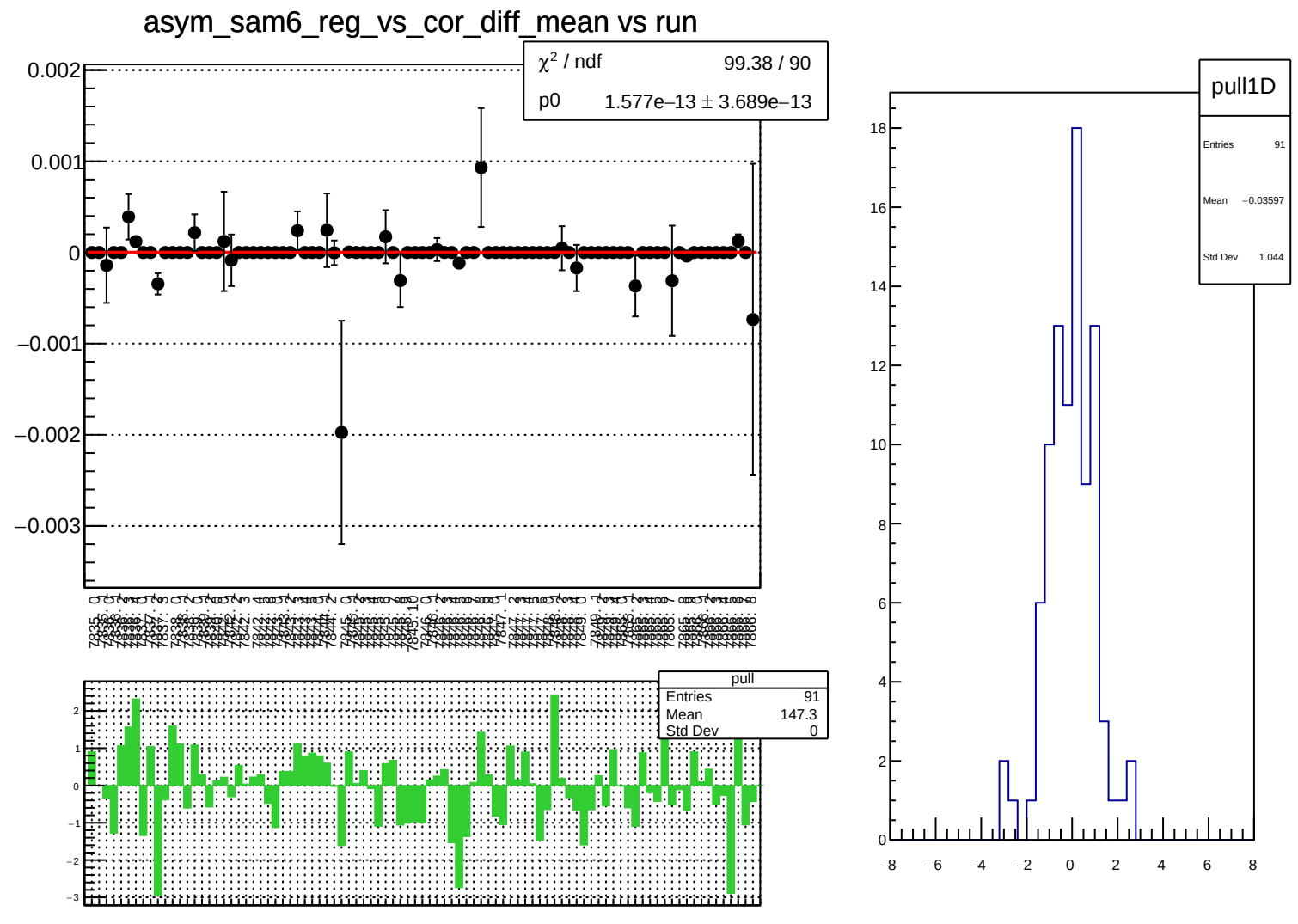

pull1D
Entries 91
Mean 0.0098
Std Dev 0.9533
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

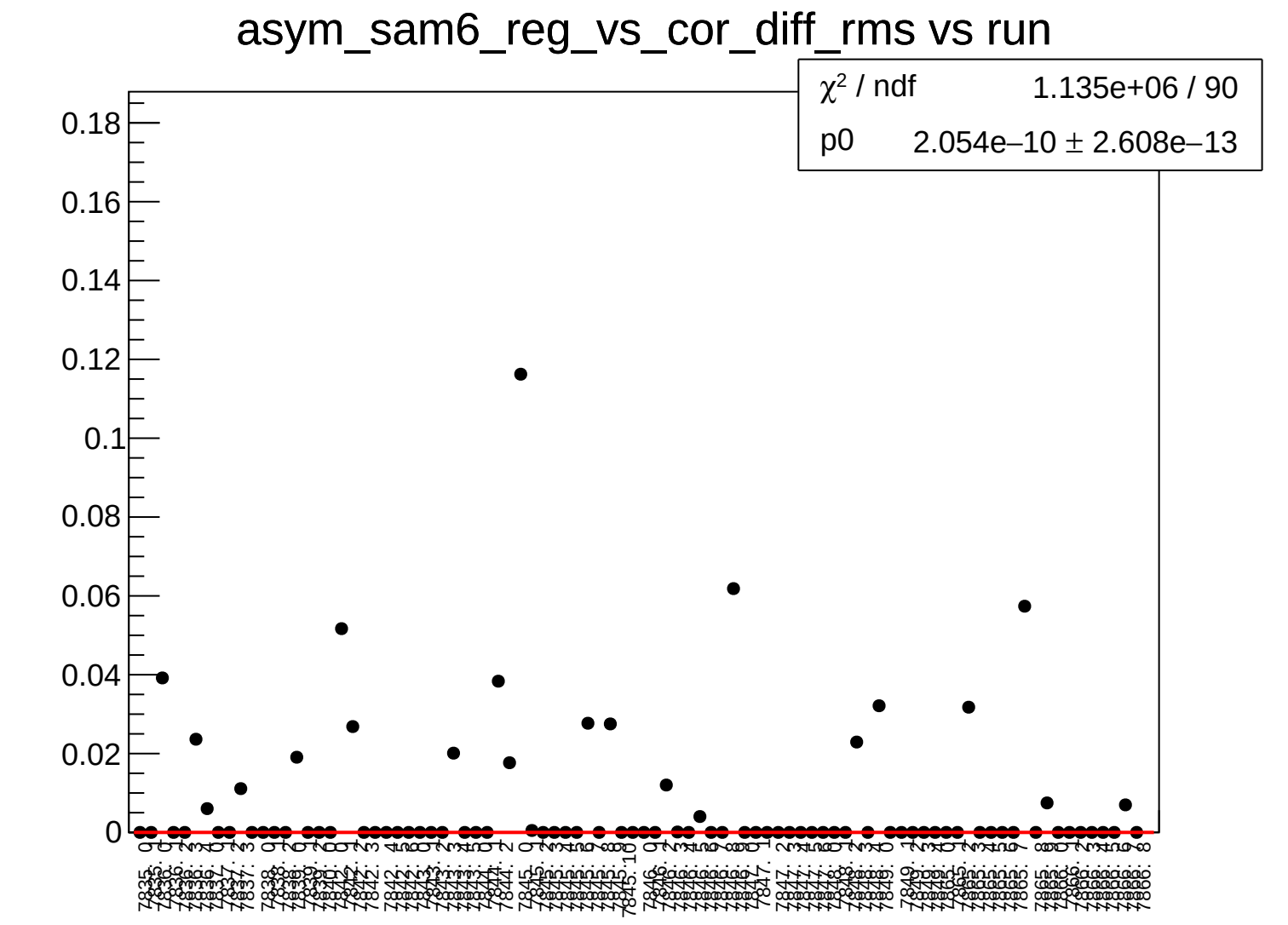

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 90
p0 1931 ± 1.464
2800
2600
2400
2200
2000
1800
1600

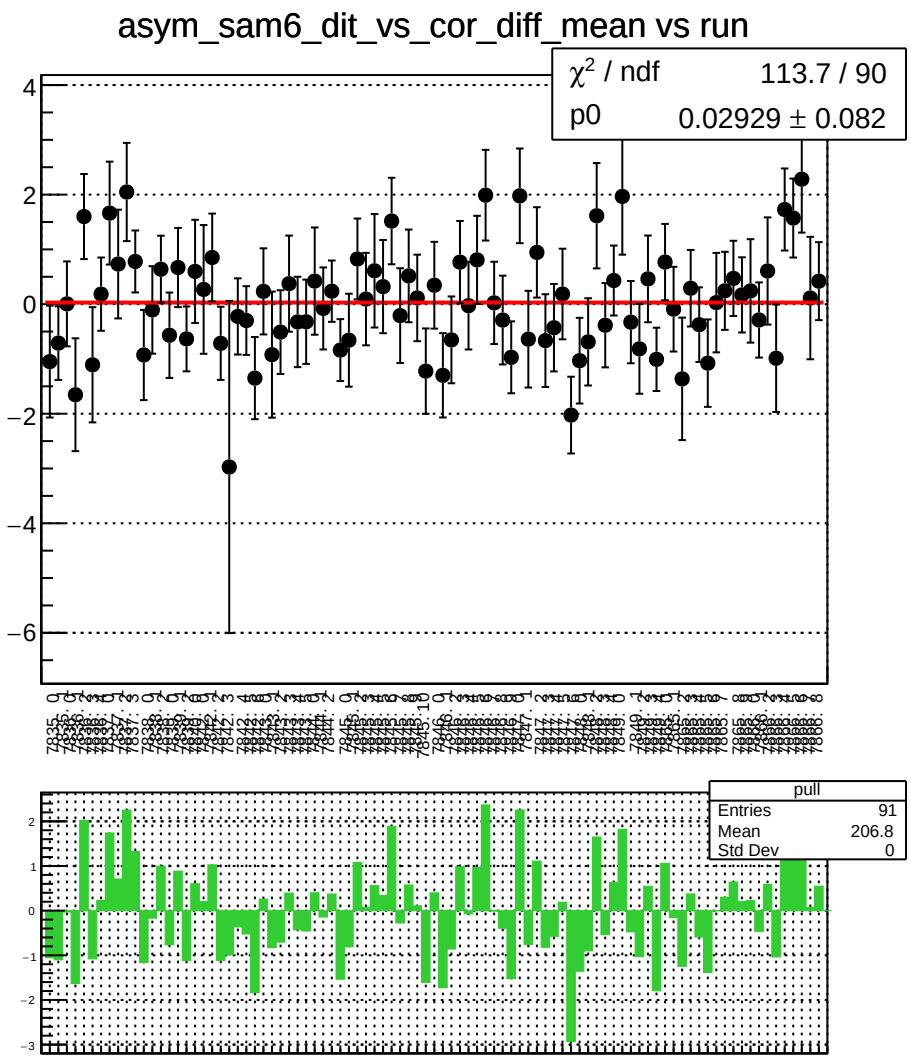

asym_sam6_mean vs run
χ² / ndf 82.45 / 90
p0 1038 ± 2065
pull
Entries 91
Mean 23.66
Std Dev 0

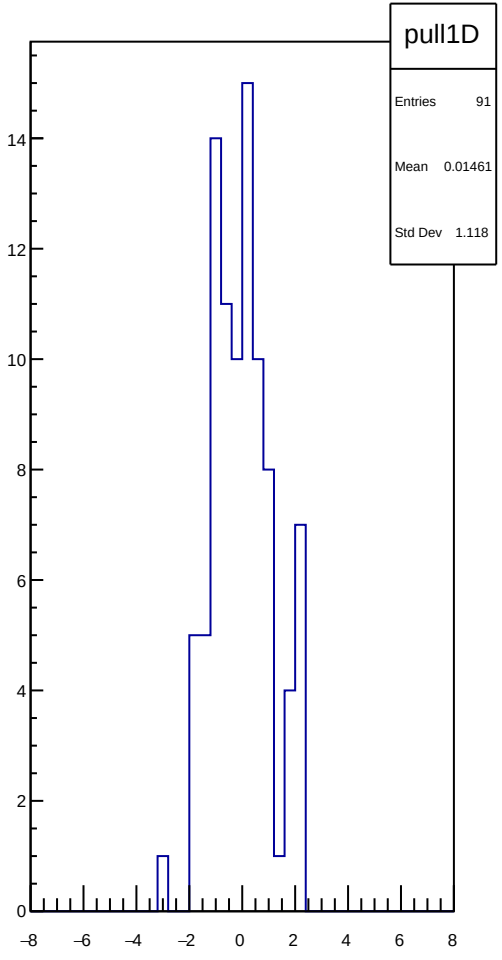

pull1D
Entries 91
Mean −0.0107
Std Dev 0.9518

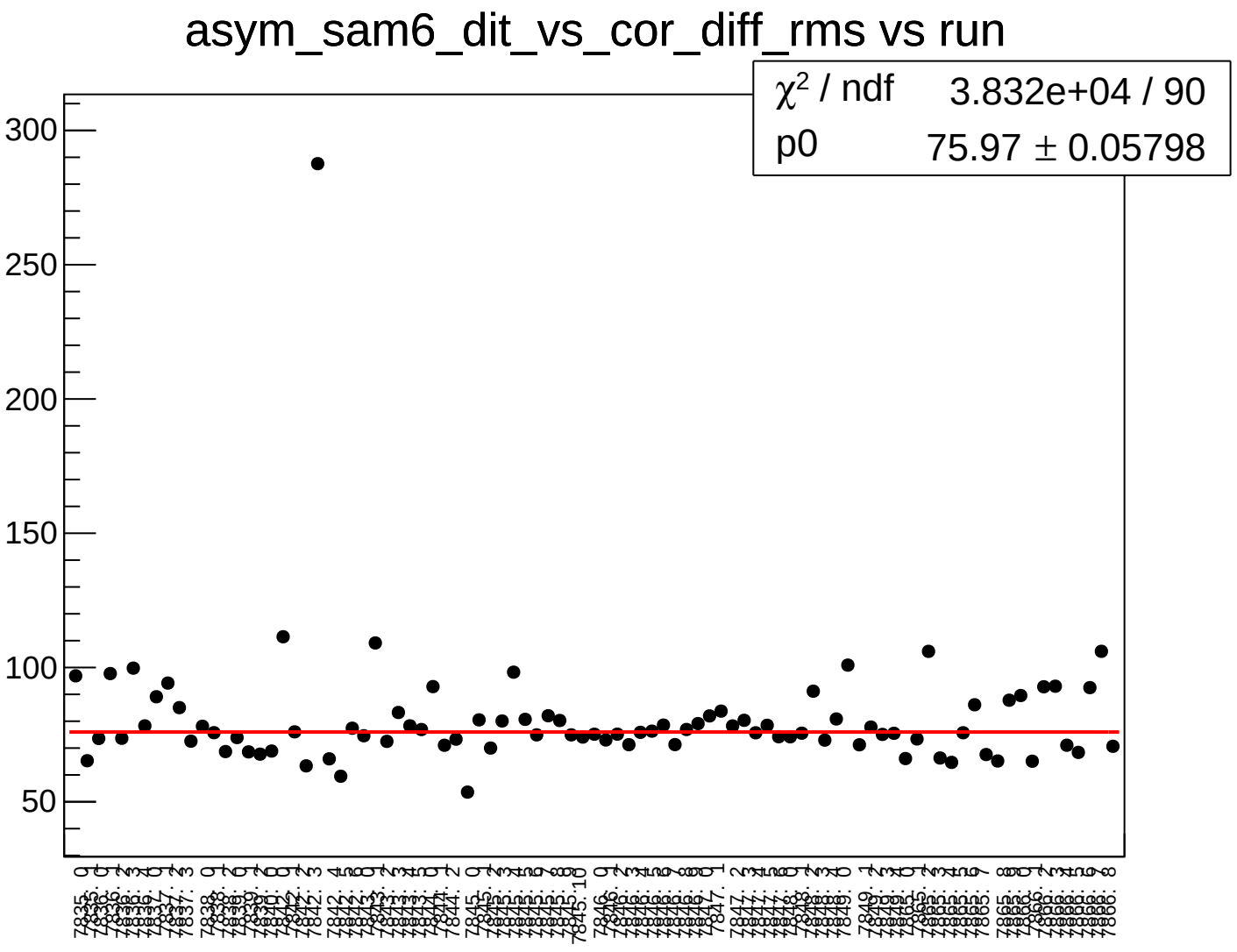

asym_sam6_rms vs run
χ² / ndf 1.794e+04 / 90
p0 1925 ± 1.46
2800
2600
2400
2200
2000
1800
1600

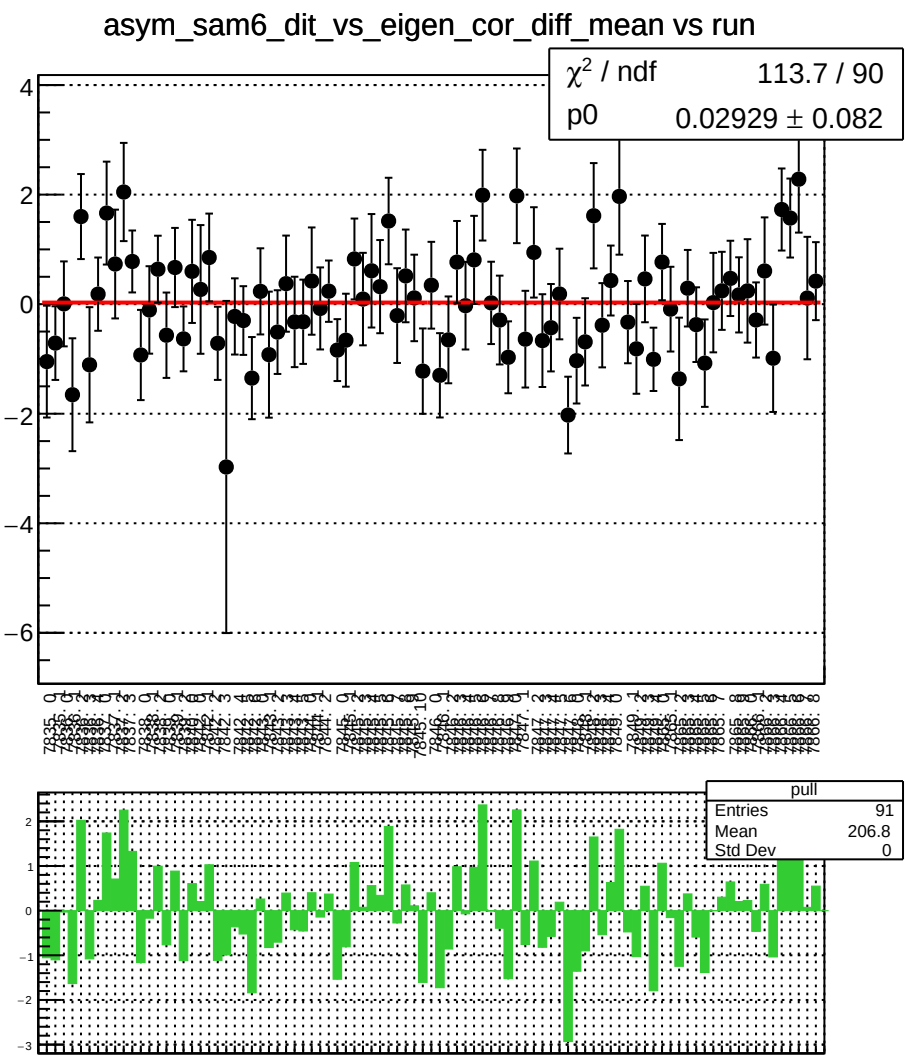

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 99.38 / 90
p0 1.577e−13 ± 3.689e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 91
Mean 147.3
Std Dev 0
pull1D
Entries 91
Mean −0.03597
Std Dev 1.044

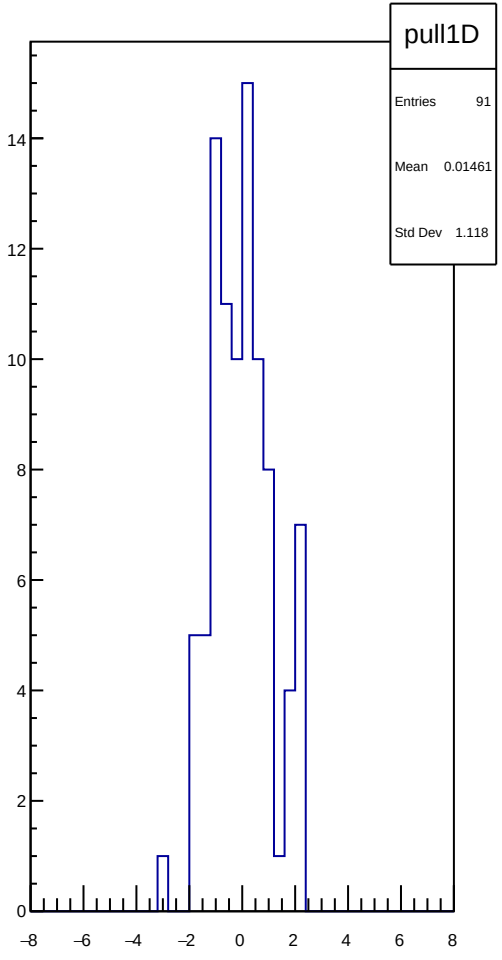

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 90
p0 2.054e−10 ± 2.608e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

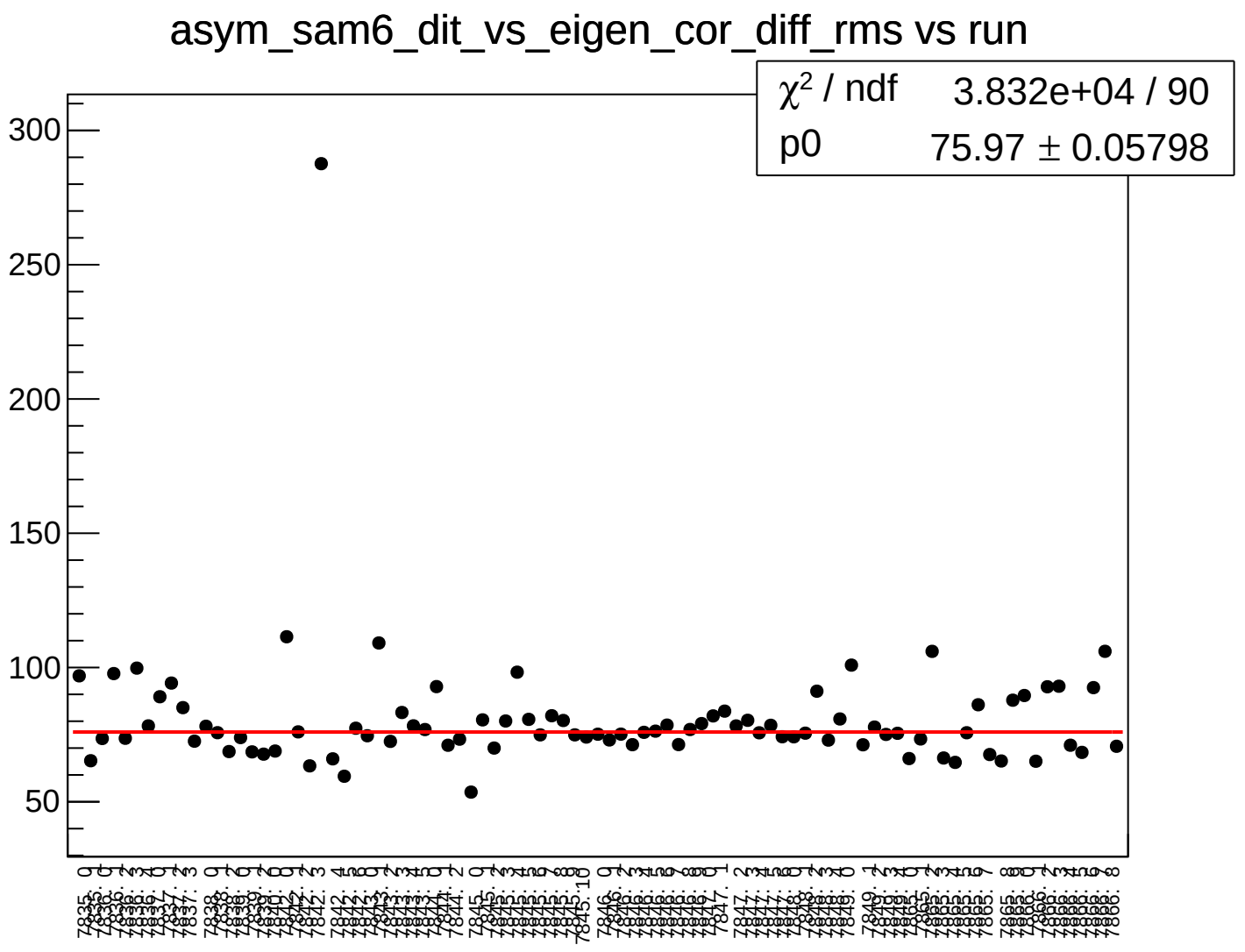

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 90
p0 0.02929 ± 0.082
pull
Entries 91
Mean 206.8
Std Dev 0

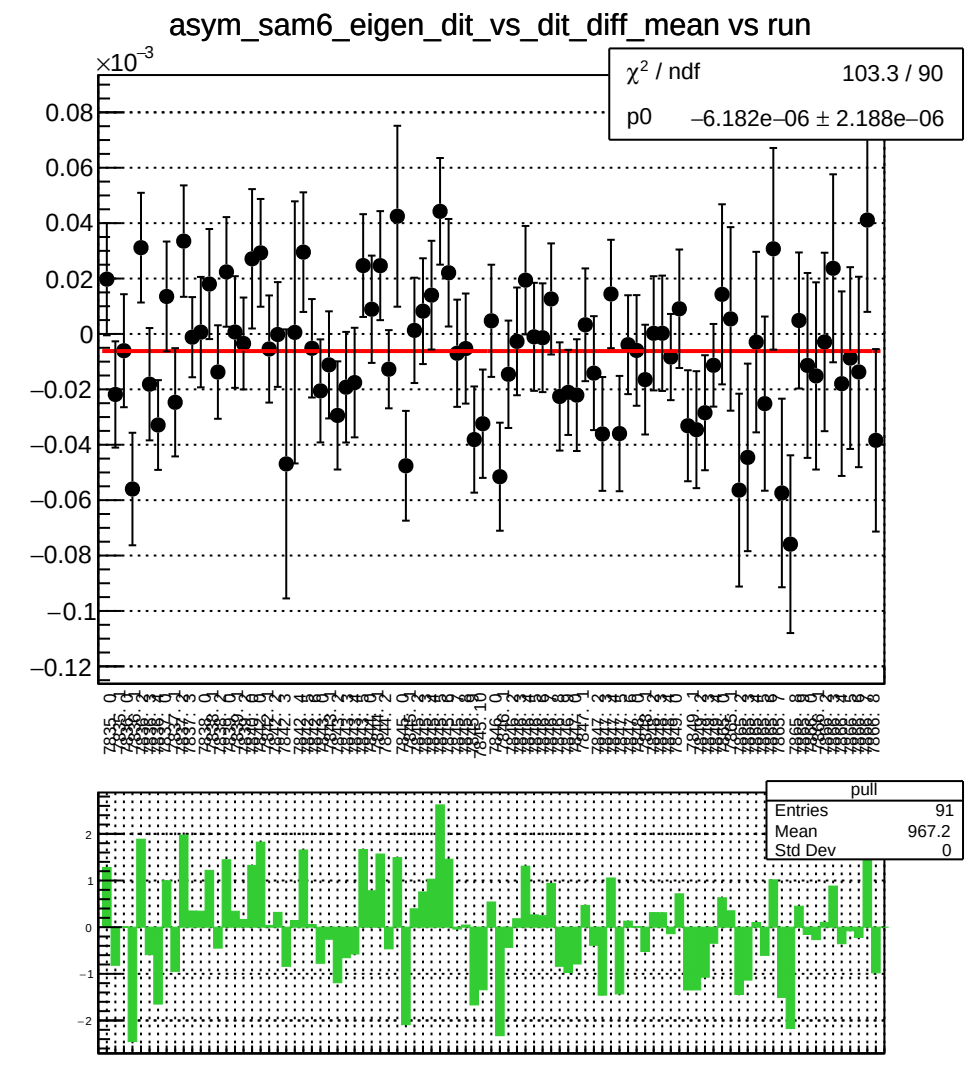

pull1D
Entries 91
Mean 0.01461
Std Dev 1.118

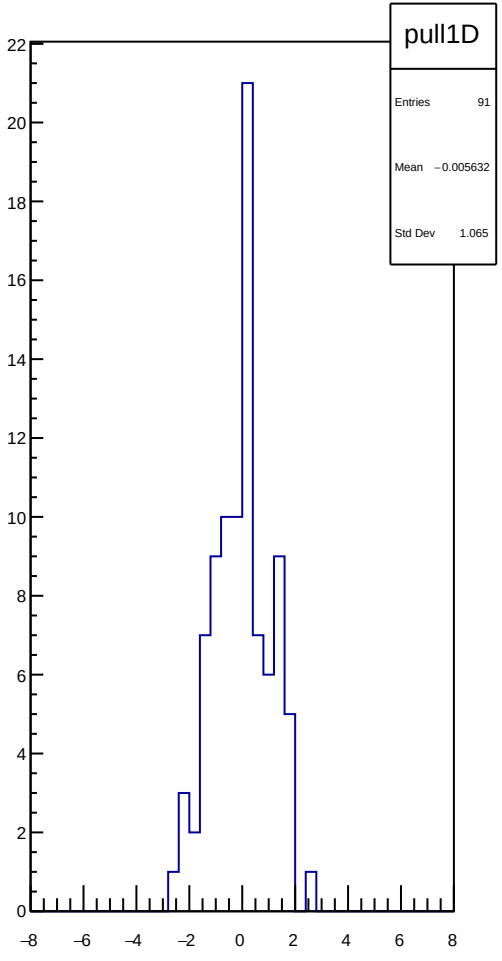

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.832e+04 / 90
p0 75.97 ± 0.05798
300
250
200
150
100
50

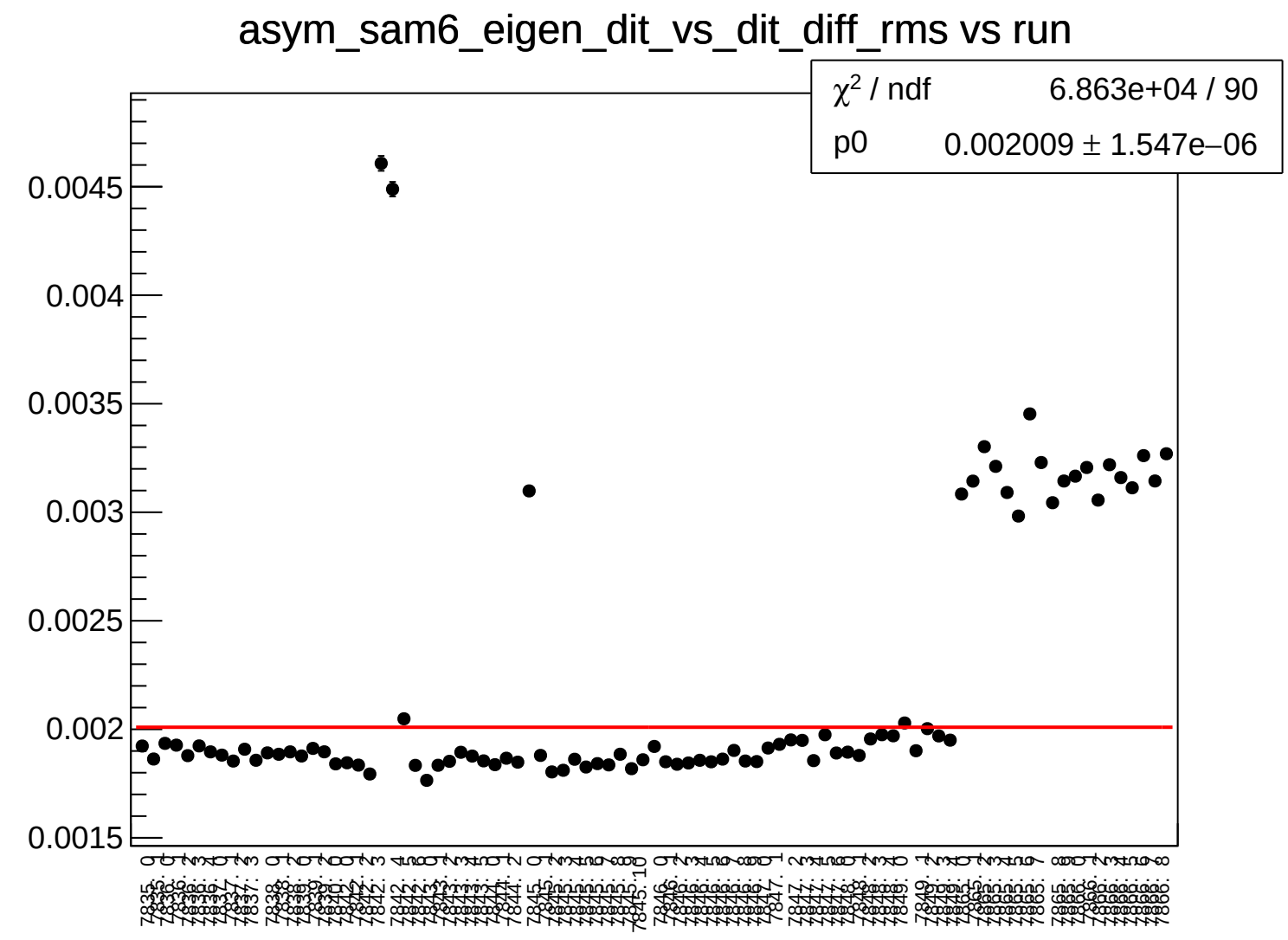

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 90
p0 0.02929 ± 0.082
pull
Entries 91
Mean 206.8
Std Dev 0

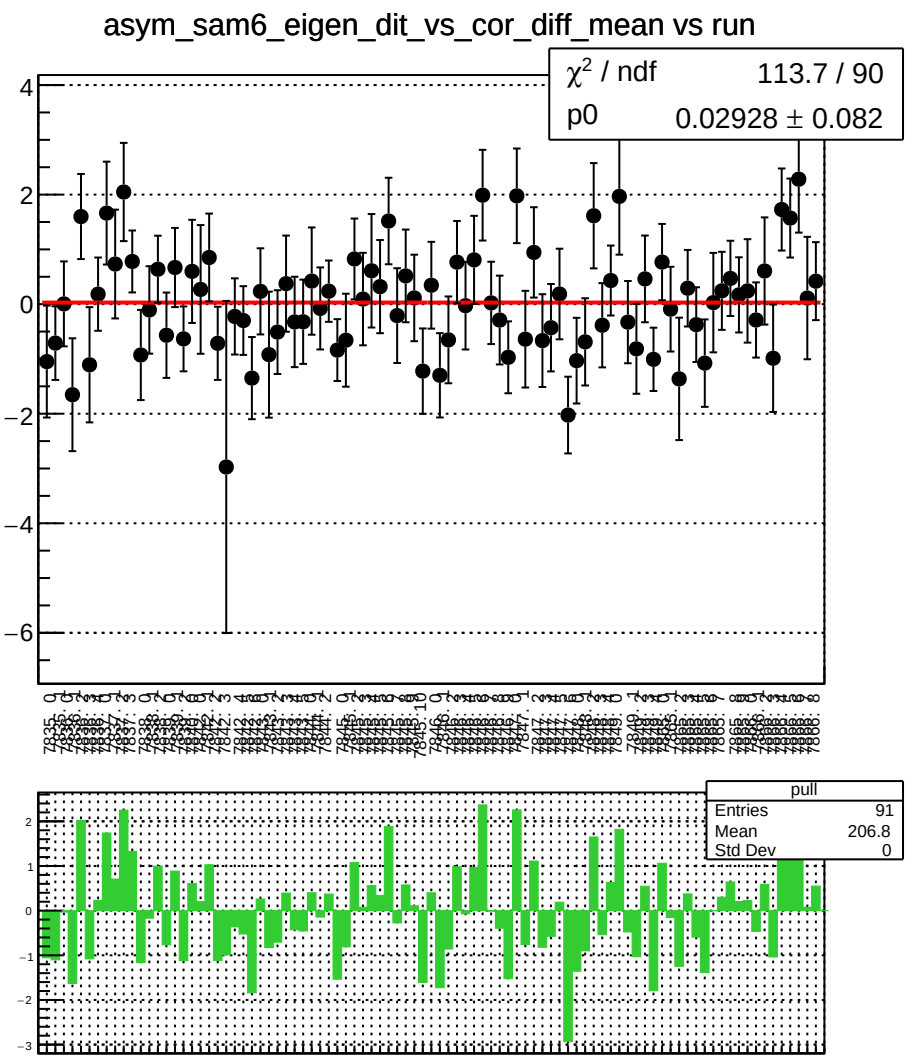

pull1D
Entries 91
Mean 0.01461
Std Dev 1.118

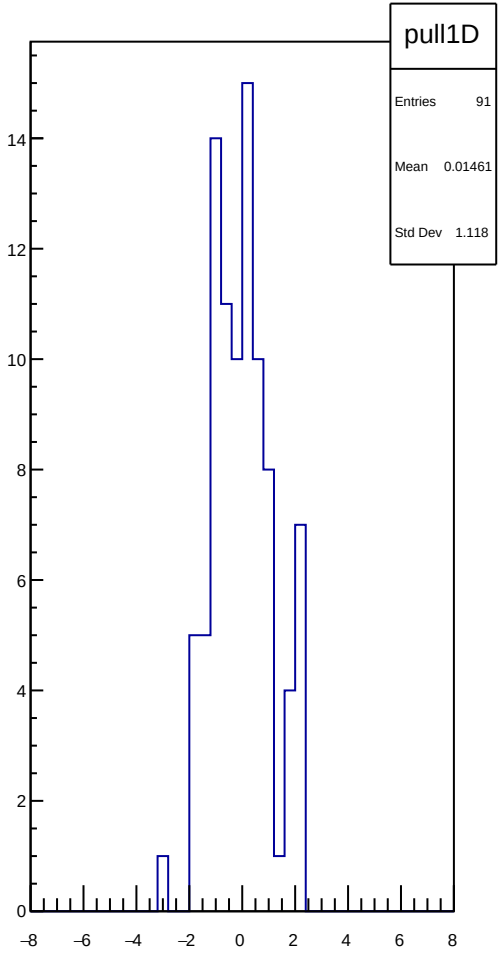

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.832e+04 / 90
p0 75.97 ± 0.05798
300
250
200
150
100
50

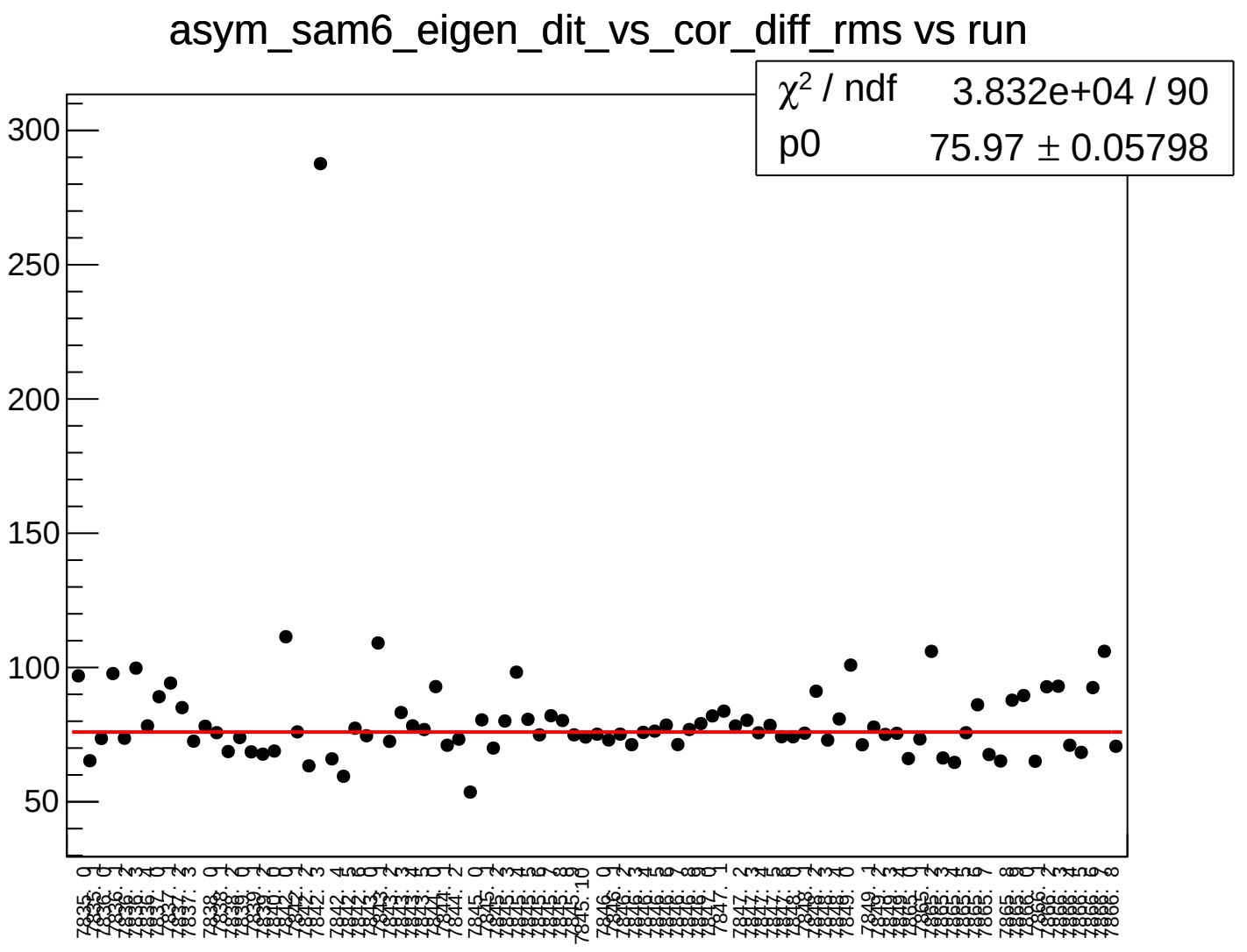

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 90
p0 −6.182e−06 ± 2.188e−06
pull
Entries 91
Mean 967.2
Std Dev 0

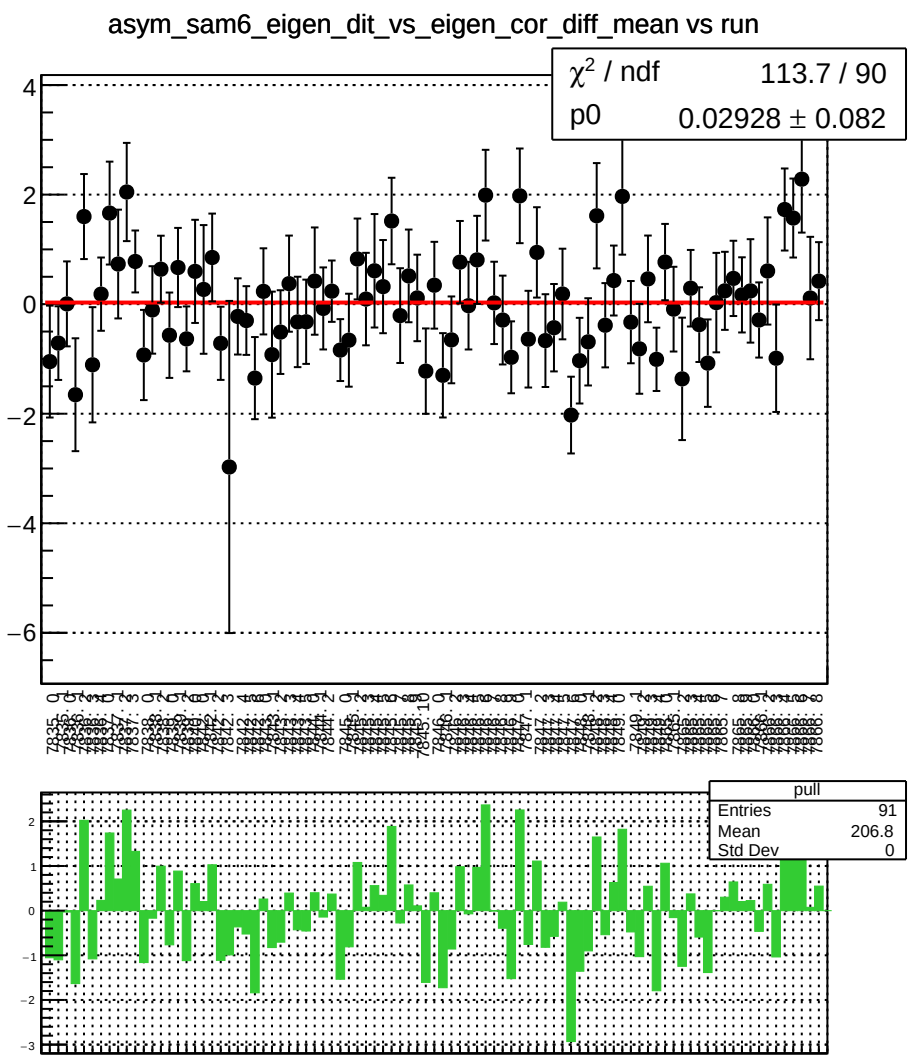

pull1D
Entries 91
Mean −0.005632
Std Dev 1.065

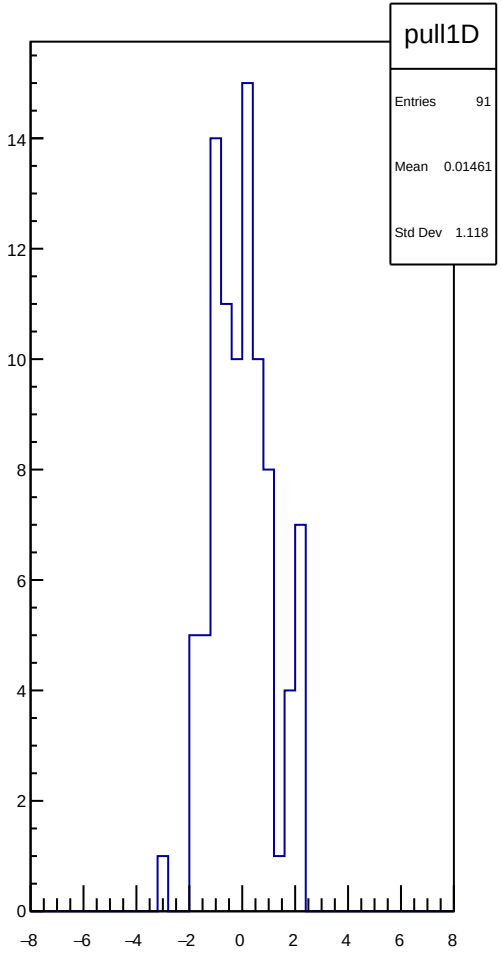

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.863e+04 / 90
p0 0.002009 ± 1.547e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

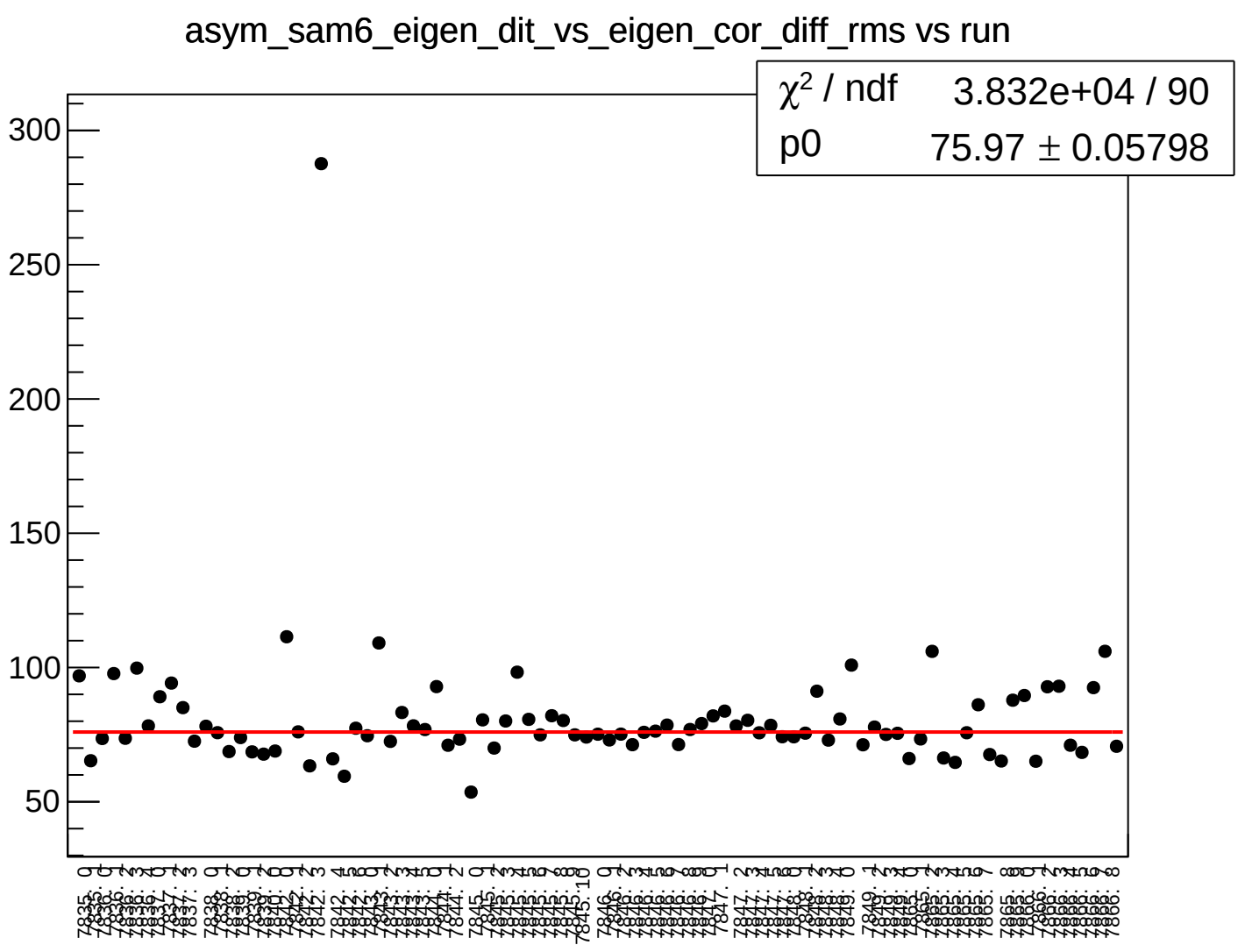

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 90
p0 0.02928 ± 0.082
pull
Entries 91
Mean 206.8
Std Dev 0

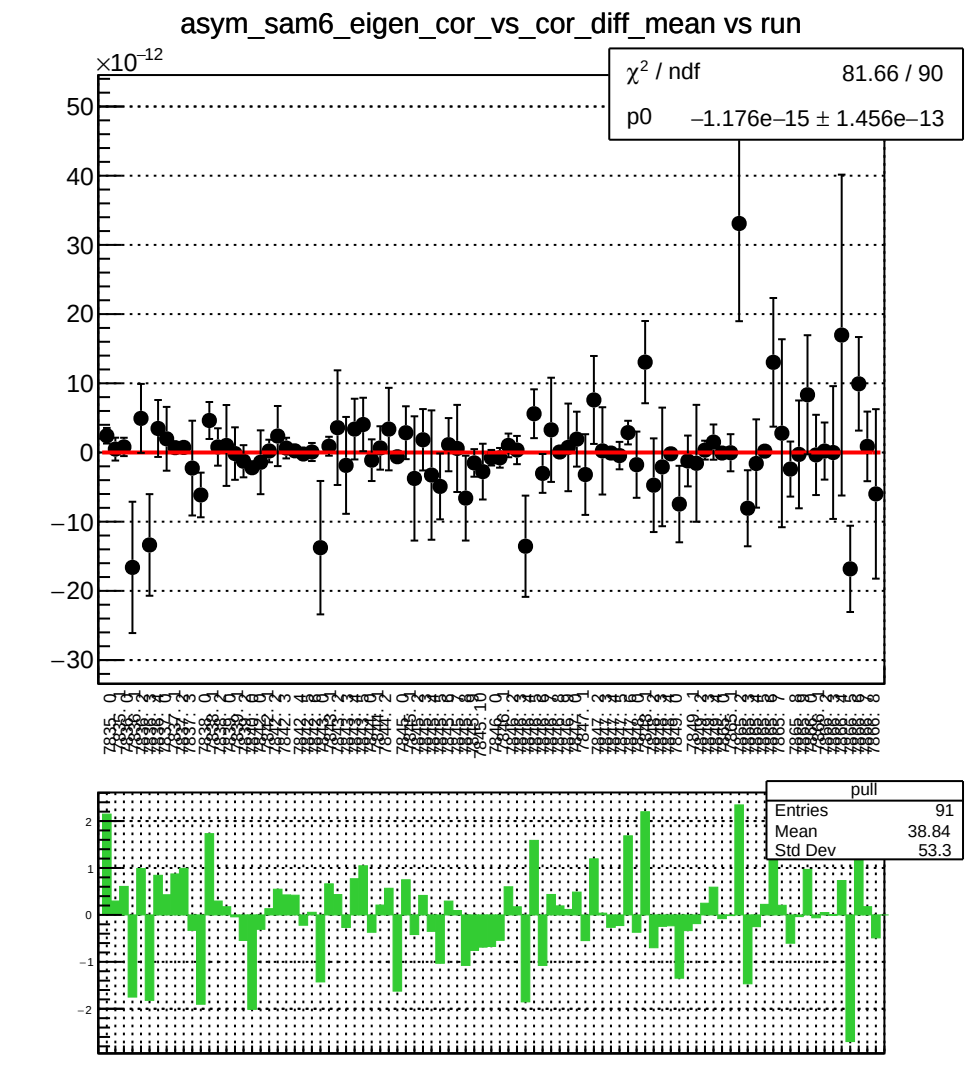

pull1D
Entries 91
Mean 0.01461
Std Dev 1.118

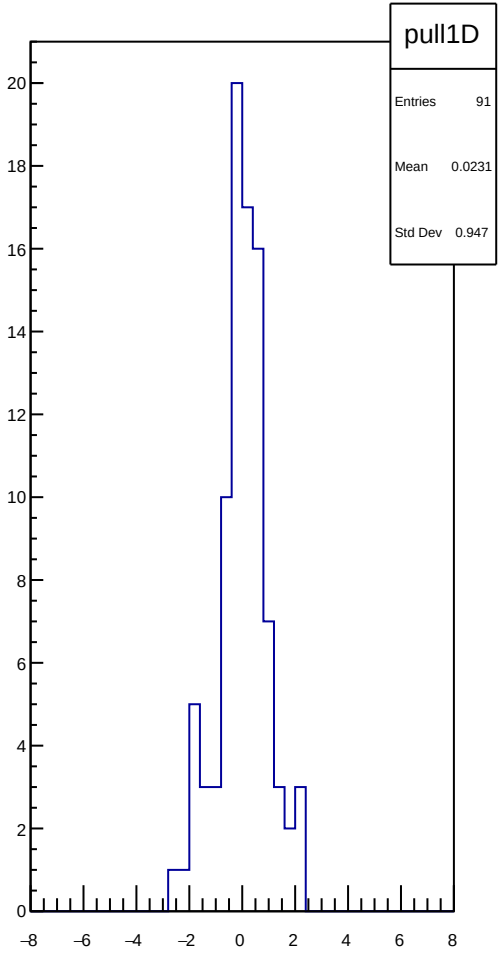

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.832e+04 / 90
p0 75.97 ± 0.05798
300
250
200
150
100
50

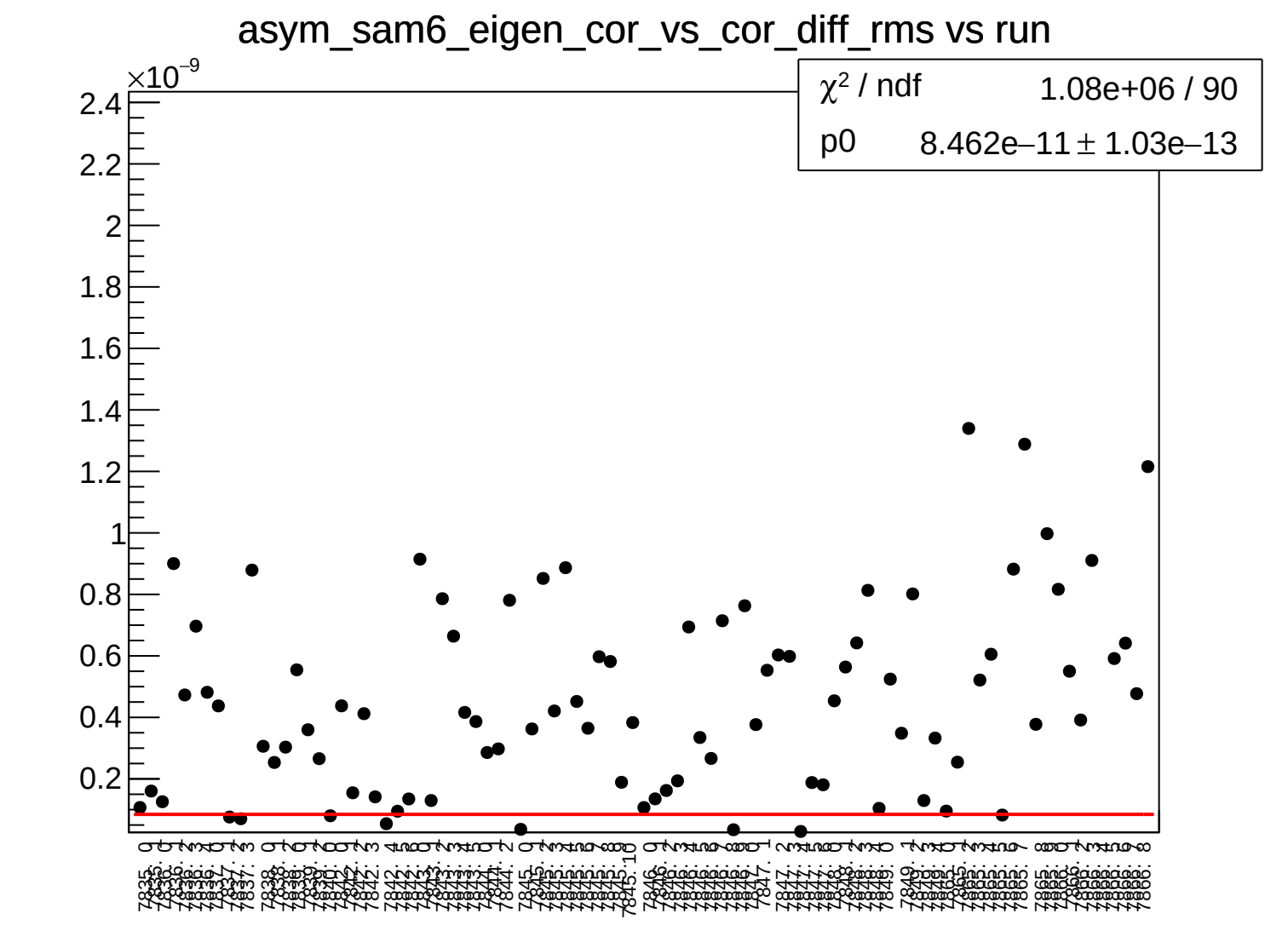

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 90
p0 0.02928 ± 0.082
pull
Entries 91
Mean 206.8
Std Dev 0

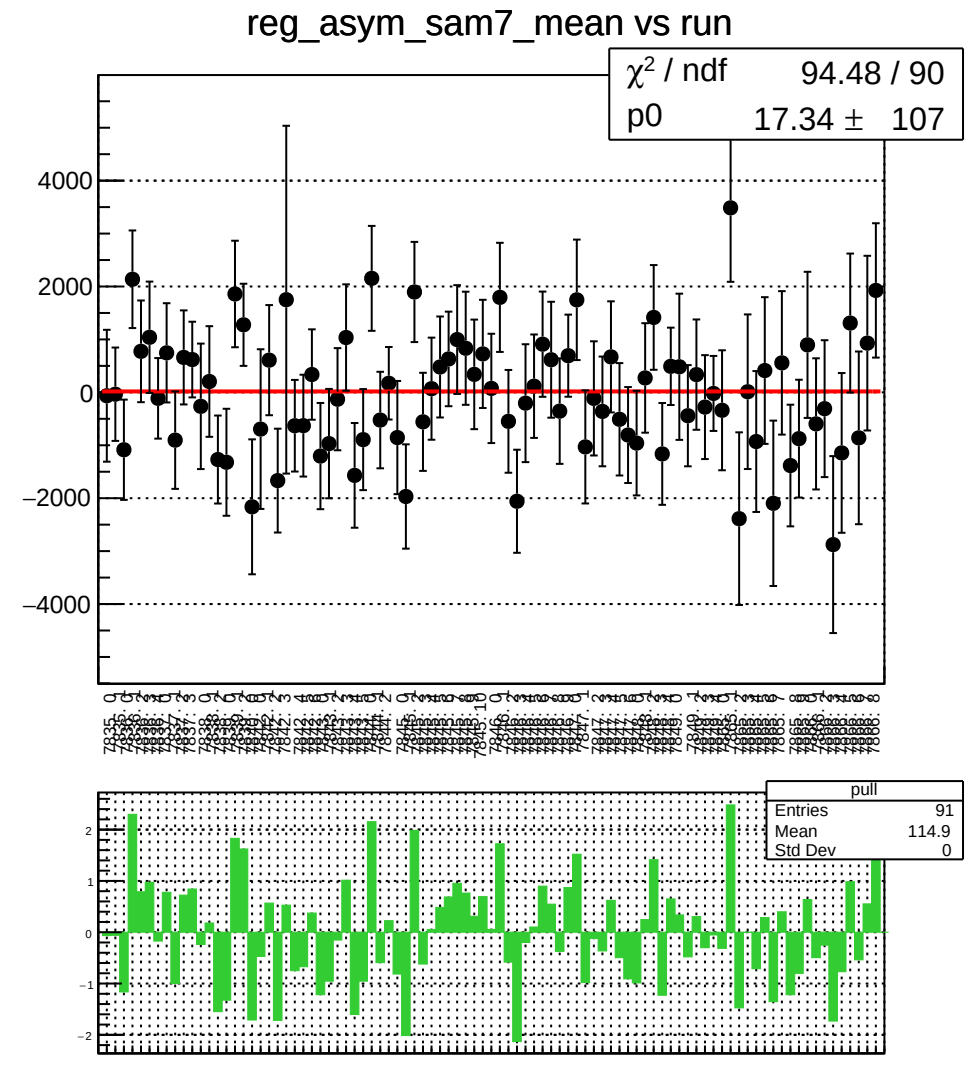

pull1D
Entries 91
Mean 0.01461
Std Dev 1.118

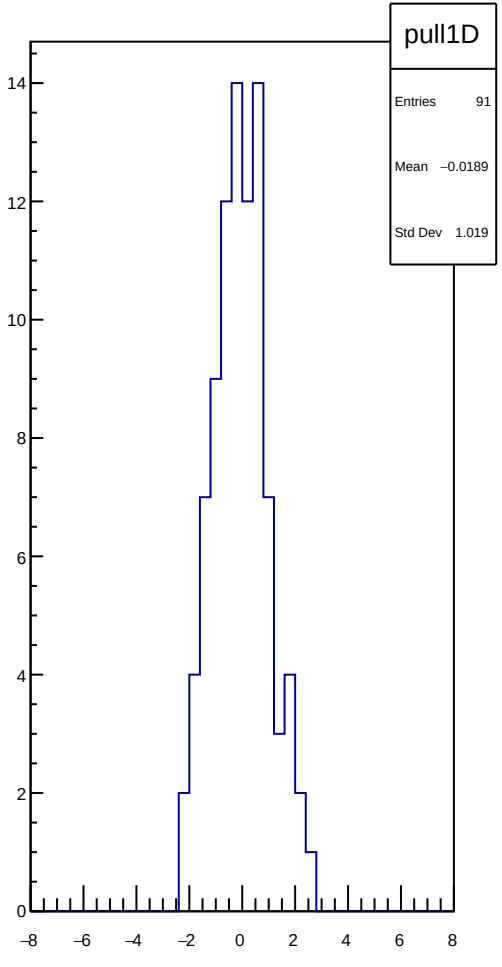

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.832e+04 / 90
p0 75.97 ± 0.05798
300
250
200
150
100
50

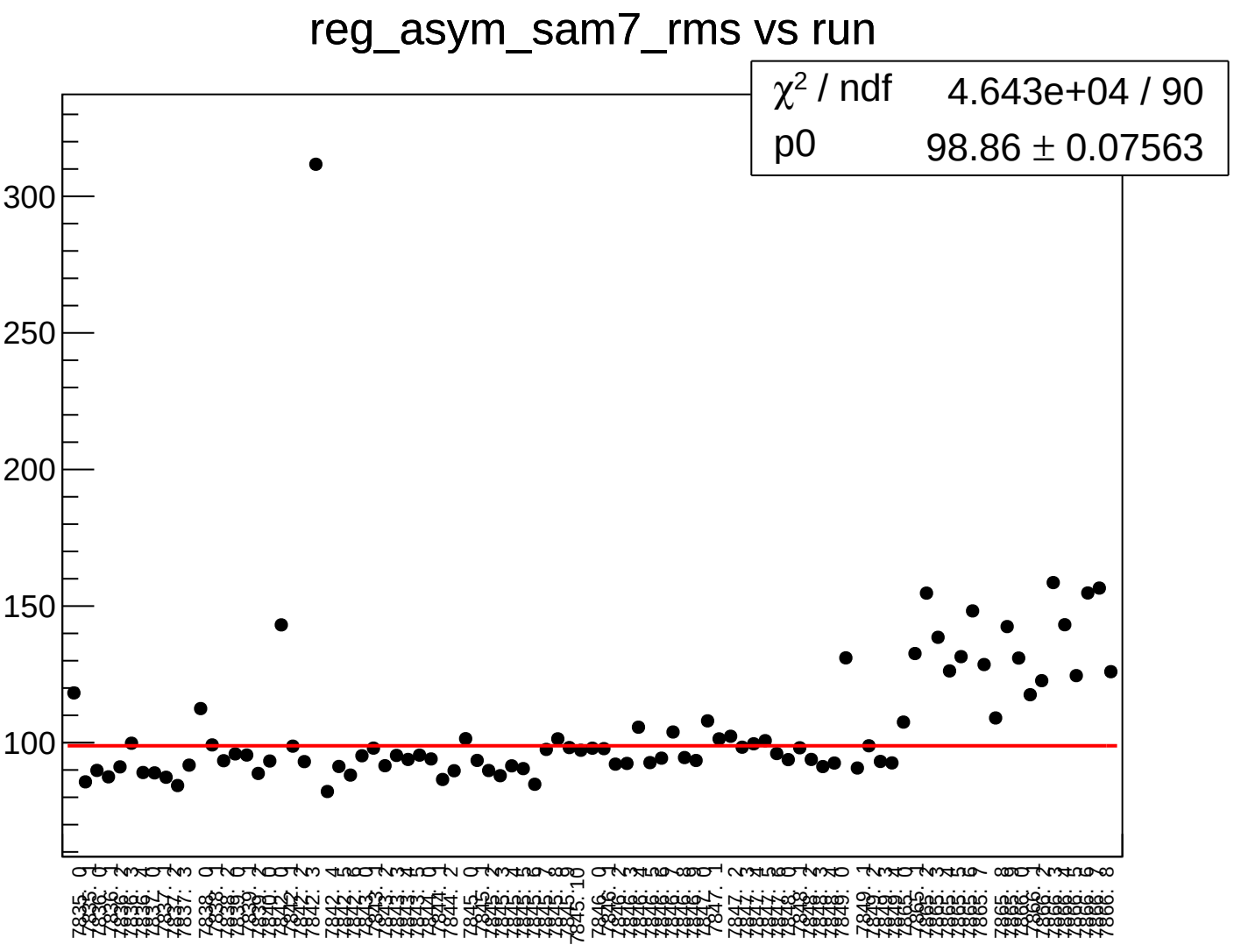

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.66 / 90
p0 −1.176e−15 ± 1.456e−13
pull
Entries 91
Mean 38.84
Std Dev 53.3

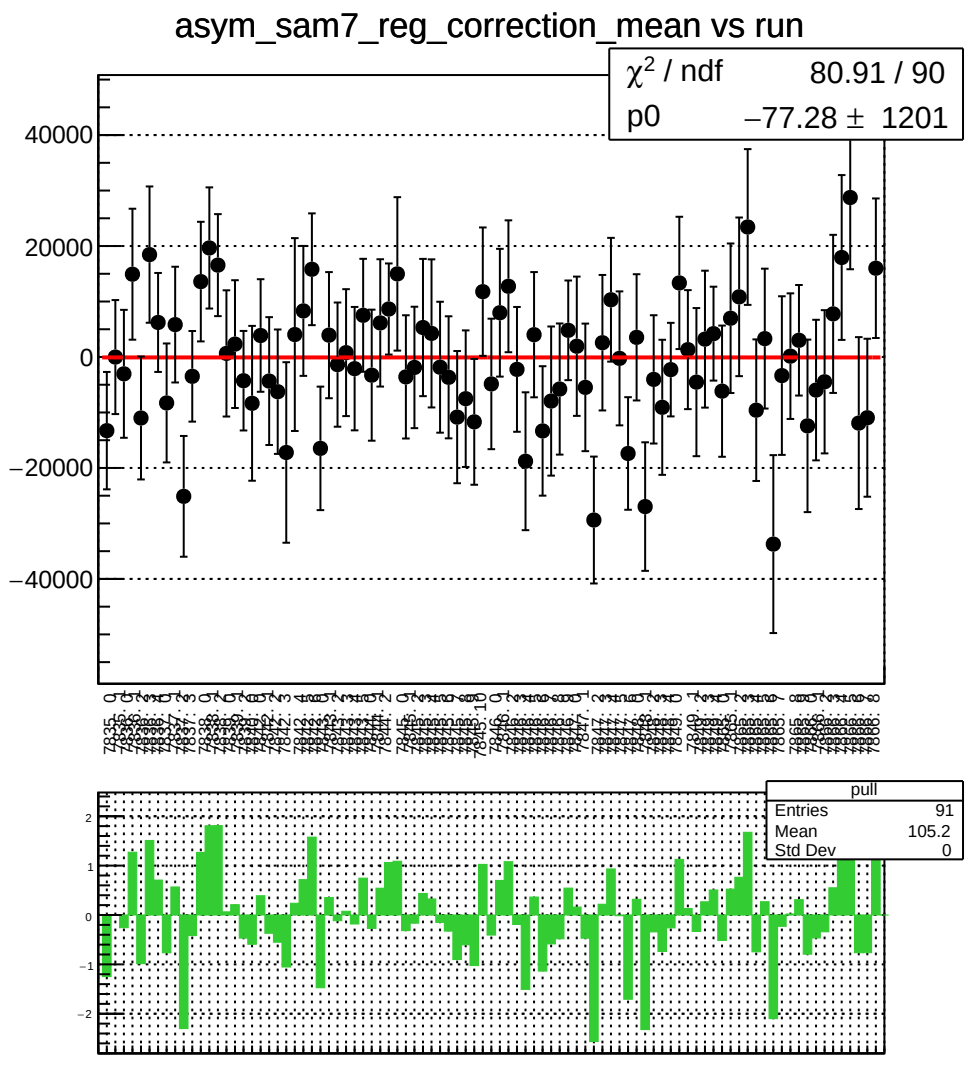

pull1D
Entries 91
Mean 0.0231
Std Dev 0.947

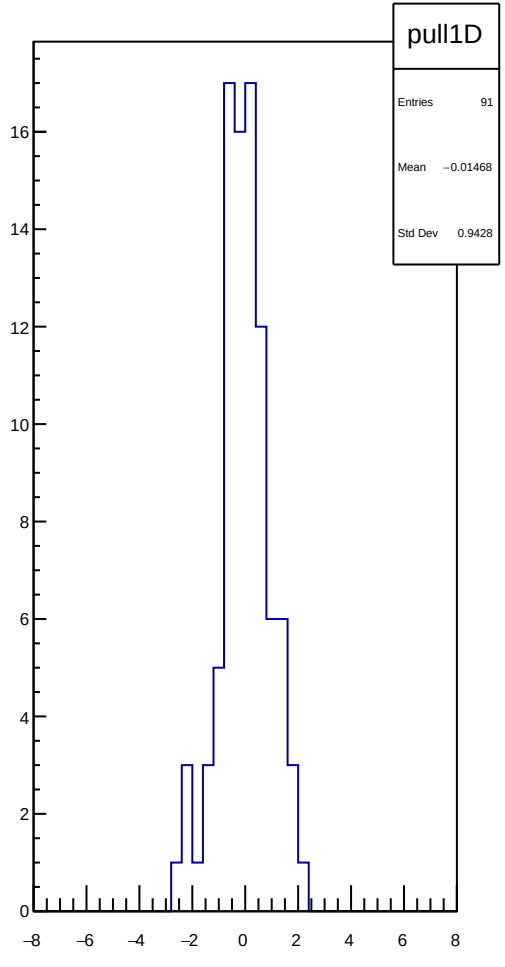

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.08e+06 / 90
p0 8.462e−11 ± 1.03e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

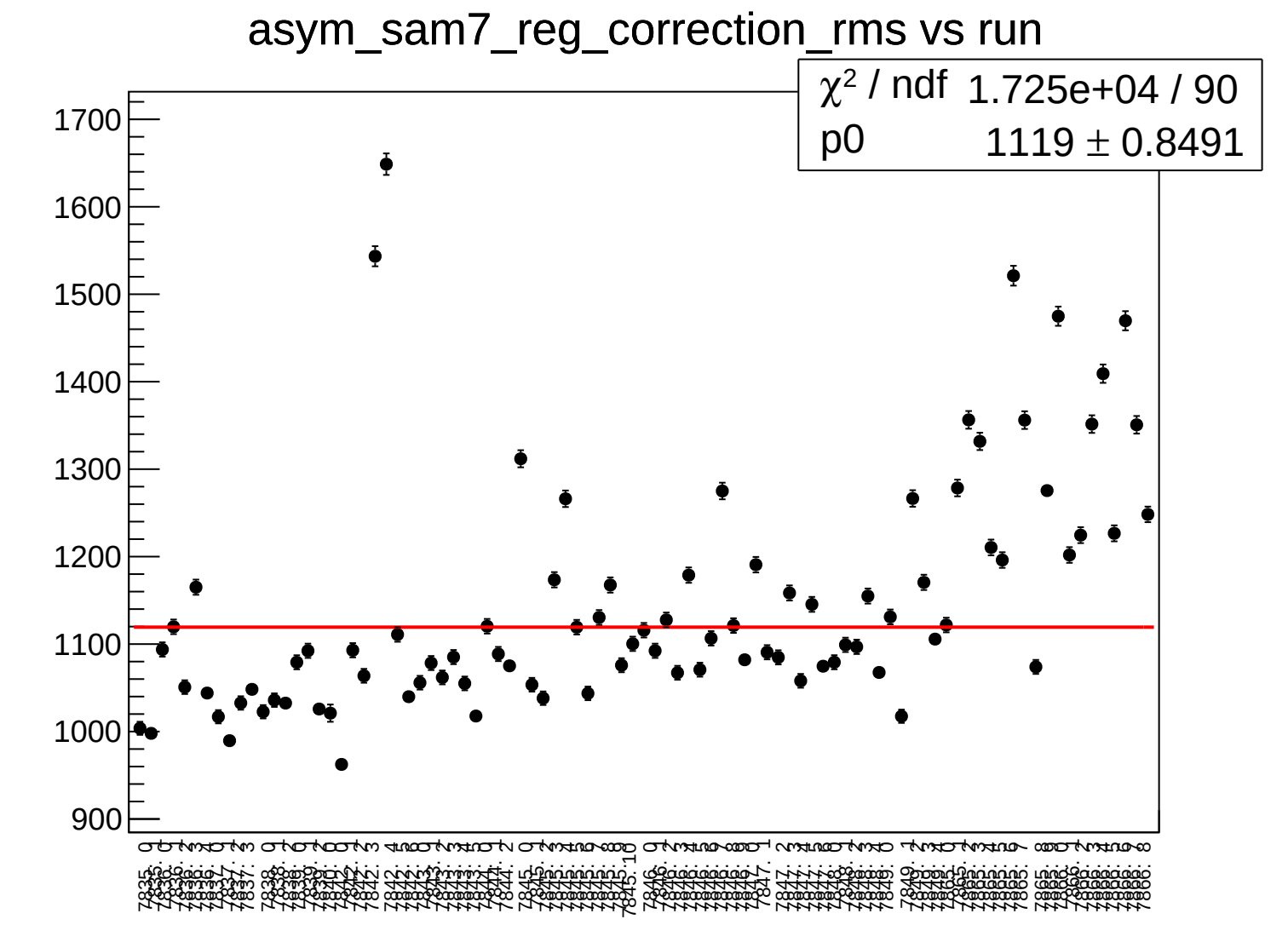

reg_asym_sam7_mean vs run
χ² / ndf 94.48 / 90
p0 17.34 ± 107
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 114.9
Std Dev 0
2
1
0
−1
−2

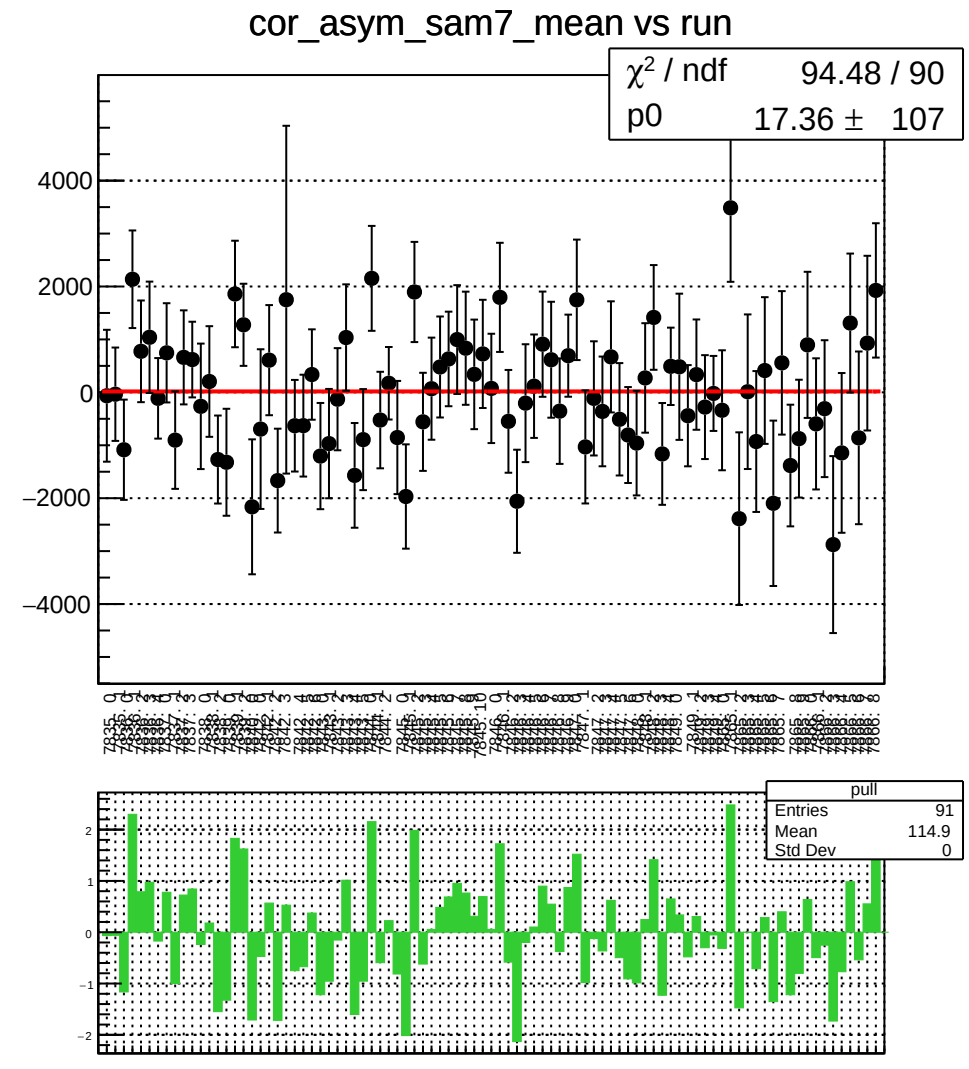

pull1D
Entries 91
Mean −0.0189
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

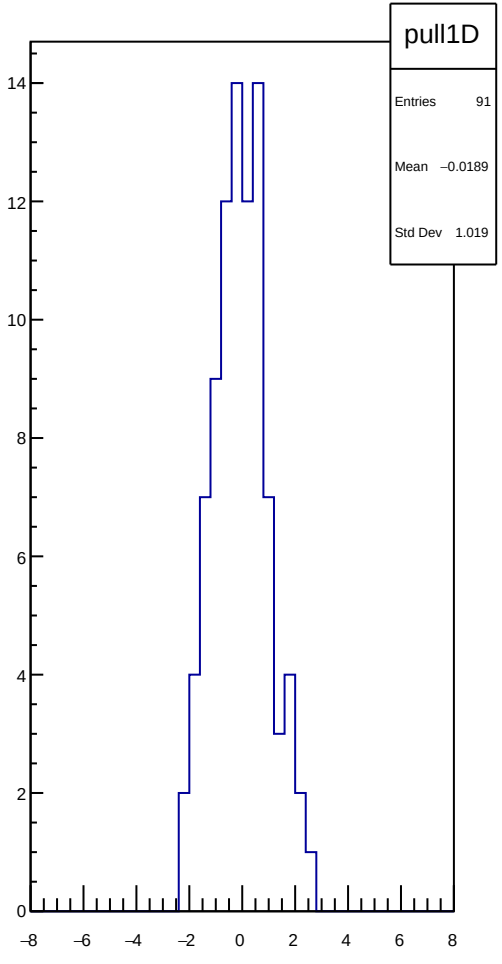

reg_asym_sam7_rms vs run
χ² / ndf 4.643e+04 / 90
p0 98.86 ± 0.07563
300
250
200
150
100

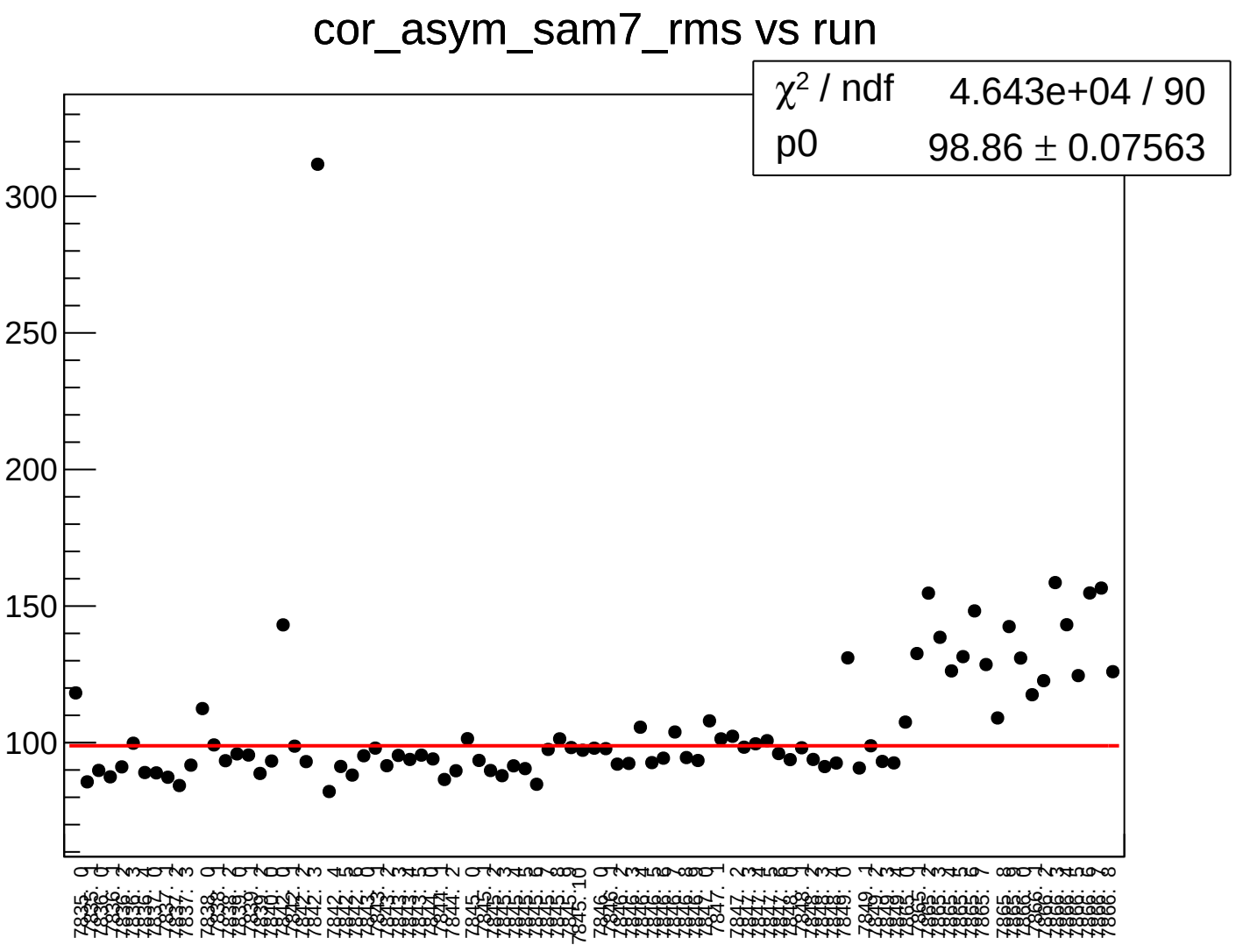

asym_sam7_reg_correction_mean vs run
χ² / ndf 80.91 / 90
p0 −77.28 ± 1201
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 105.2
Std Dev 0
2
1
0
−1
−2

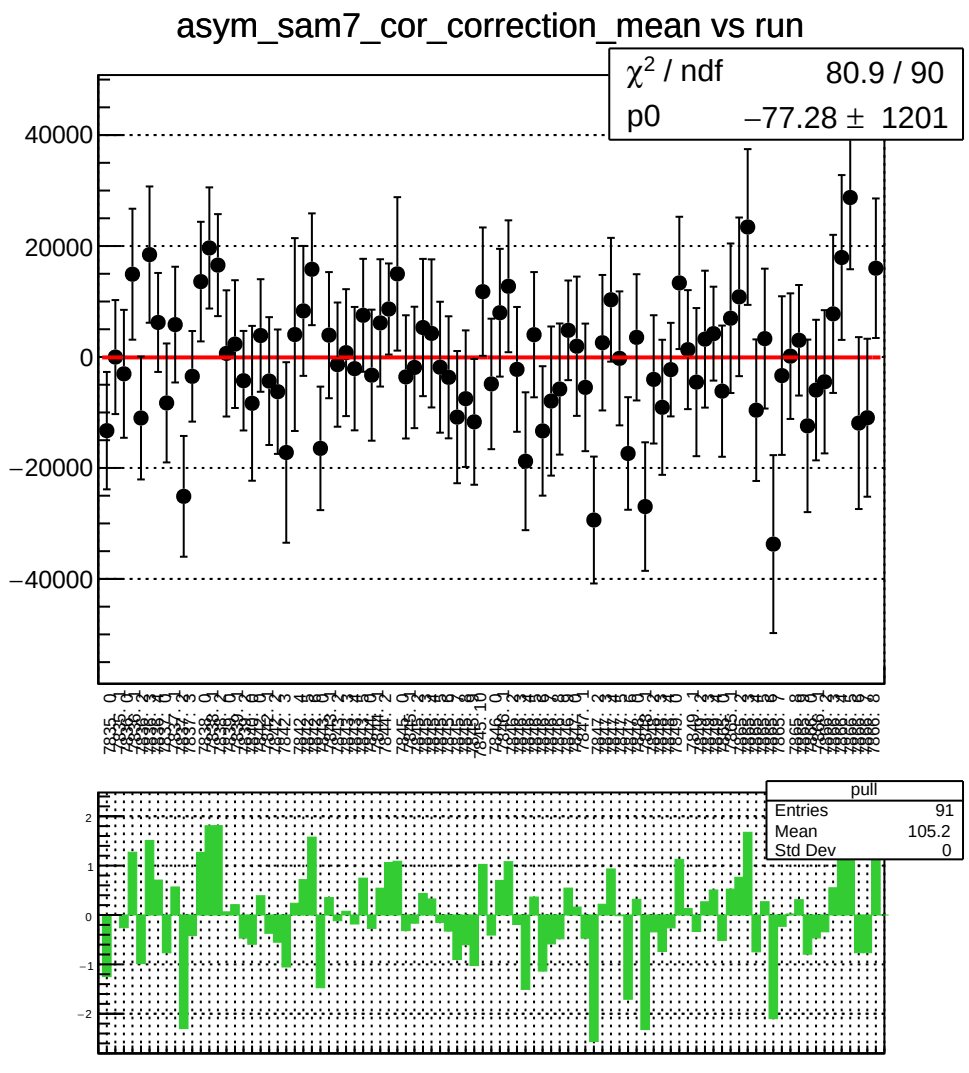

pull1D
Entries 91
Mean −0.01468
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

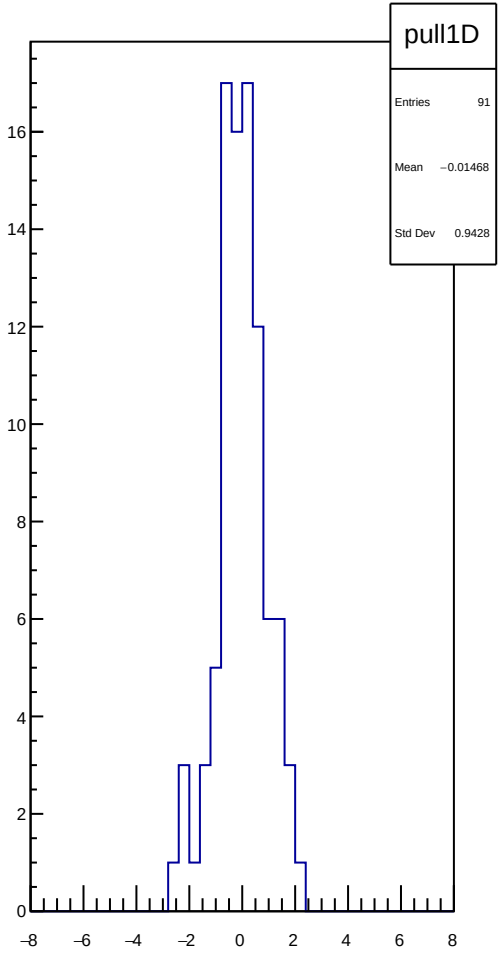

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.725e+04 / 90
p0 1119 ± 0.8491
1700
1600
1500
1400
1300
1200
1100
1000
900

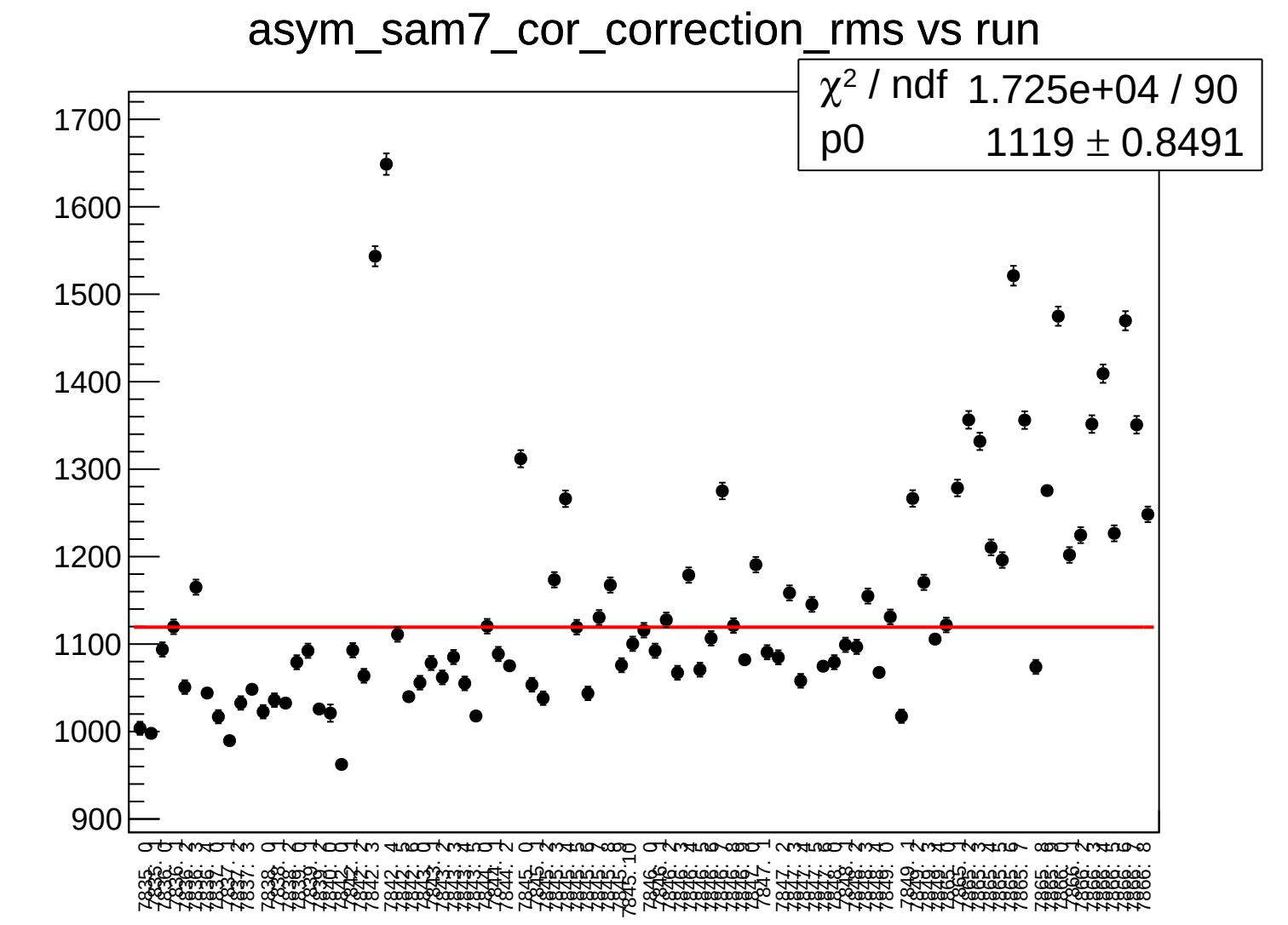

cor_asym_sam7_mean vs run
χ² / ndf 94.48 / 90
p0 17.36 ± 107
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 114.9
Std Dev 0
2
1
0
−1
−2

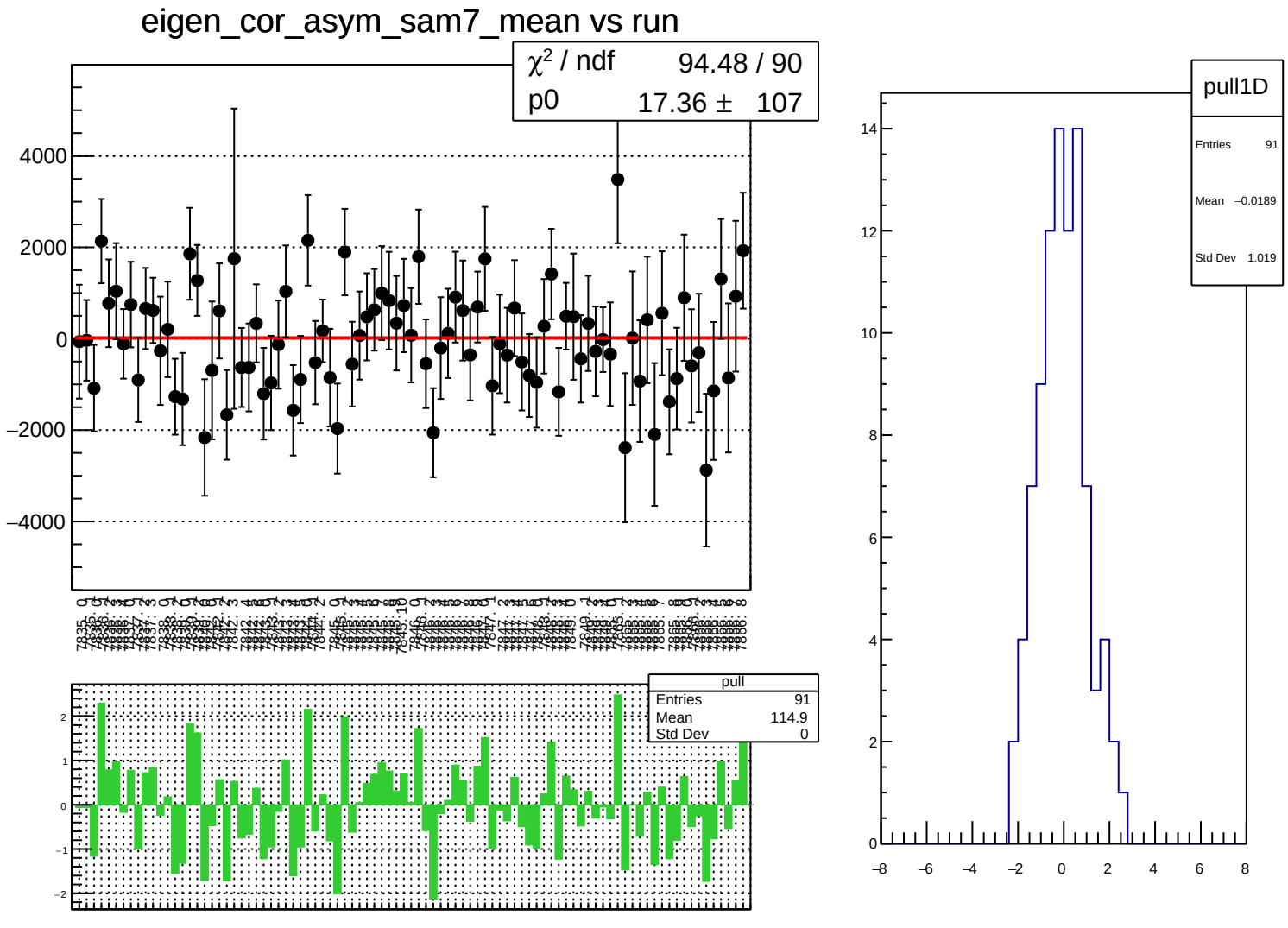

pull1D
Entries 91
Mean −0.0189
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

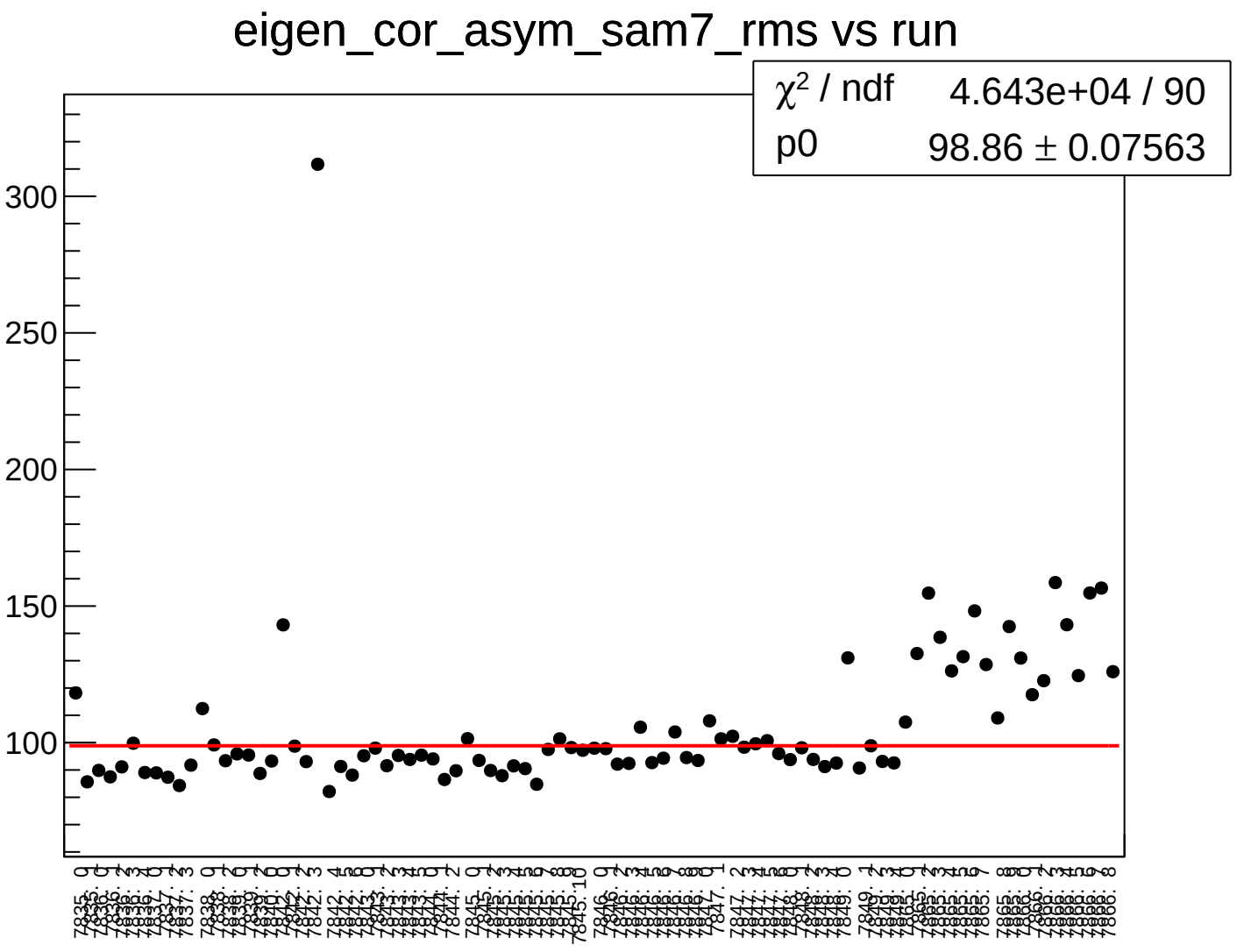

cor_asym_sam7_rms vs run
χ² / ndf 4.643e+04 / 90
p0 98.86 ± 0.07563
300
250
200
150
100

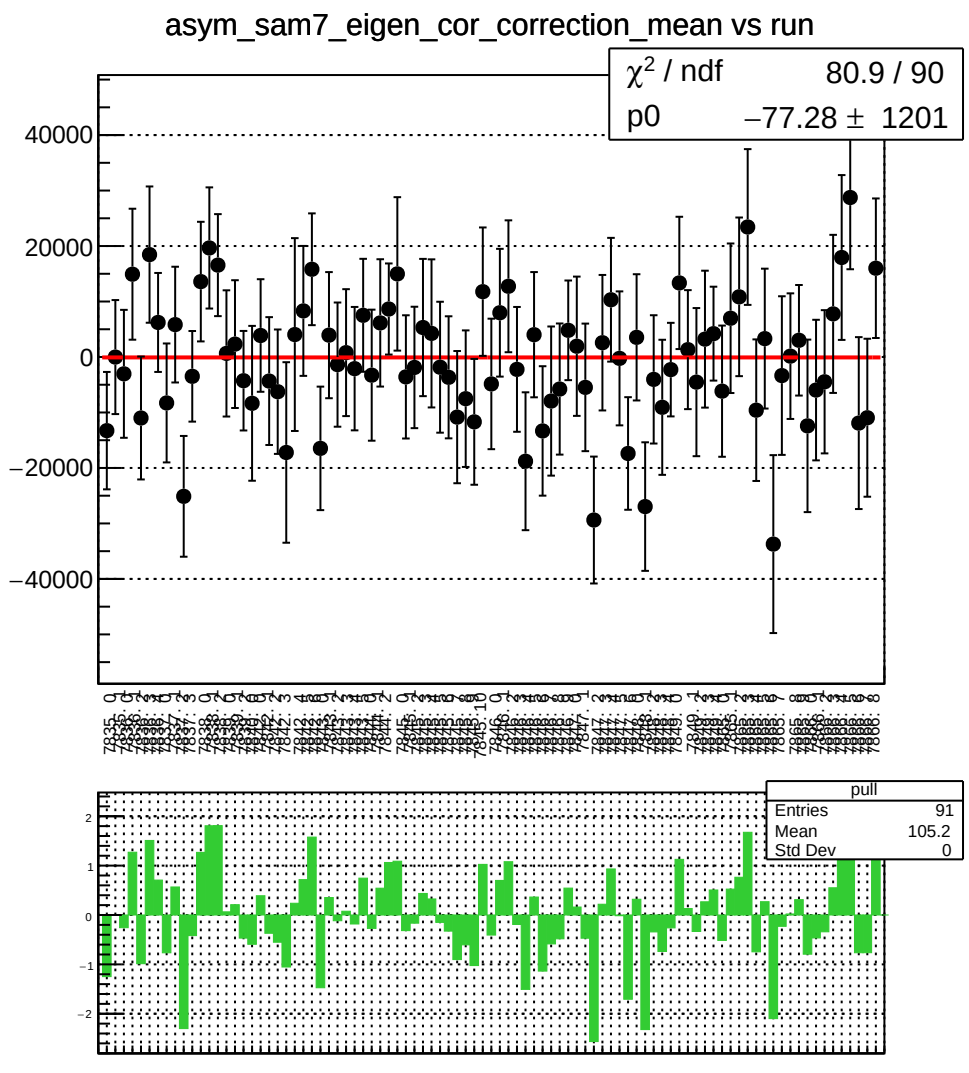

asym_sam7_cor_correction_mean vs run
χ² / ndf 80.9 / 90
p0 −77.28 ± 1201
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 105.2
Std Dev 0
2
1
0
−1
−2

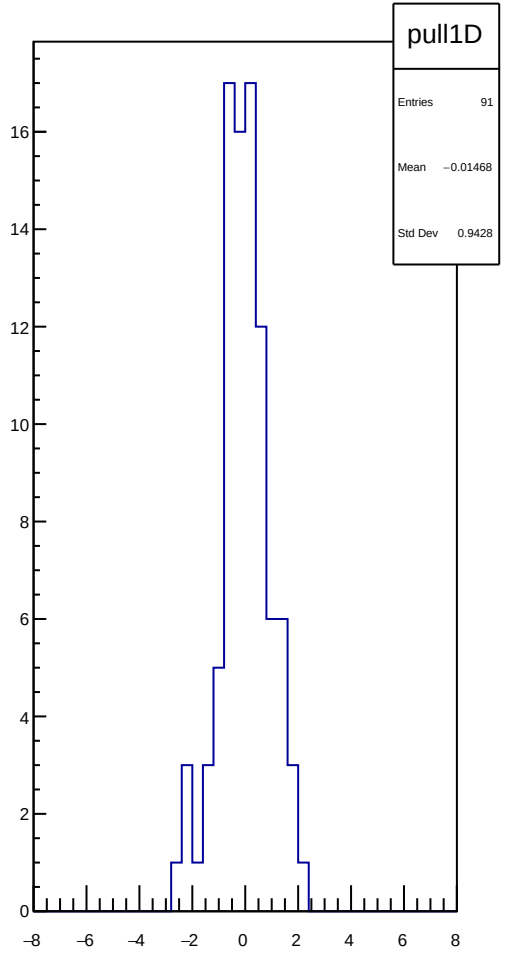

pull1D
Entries 91
Mean −0.01468
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

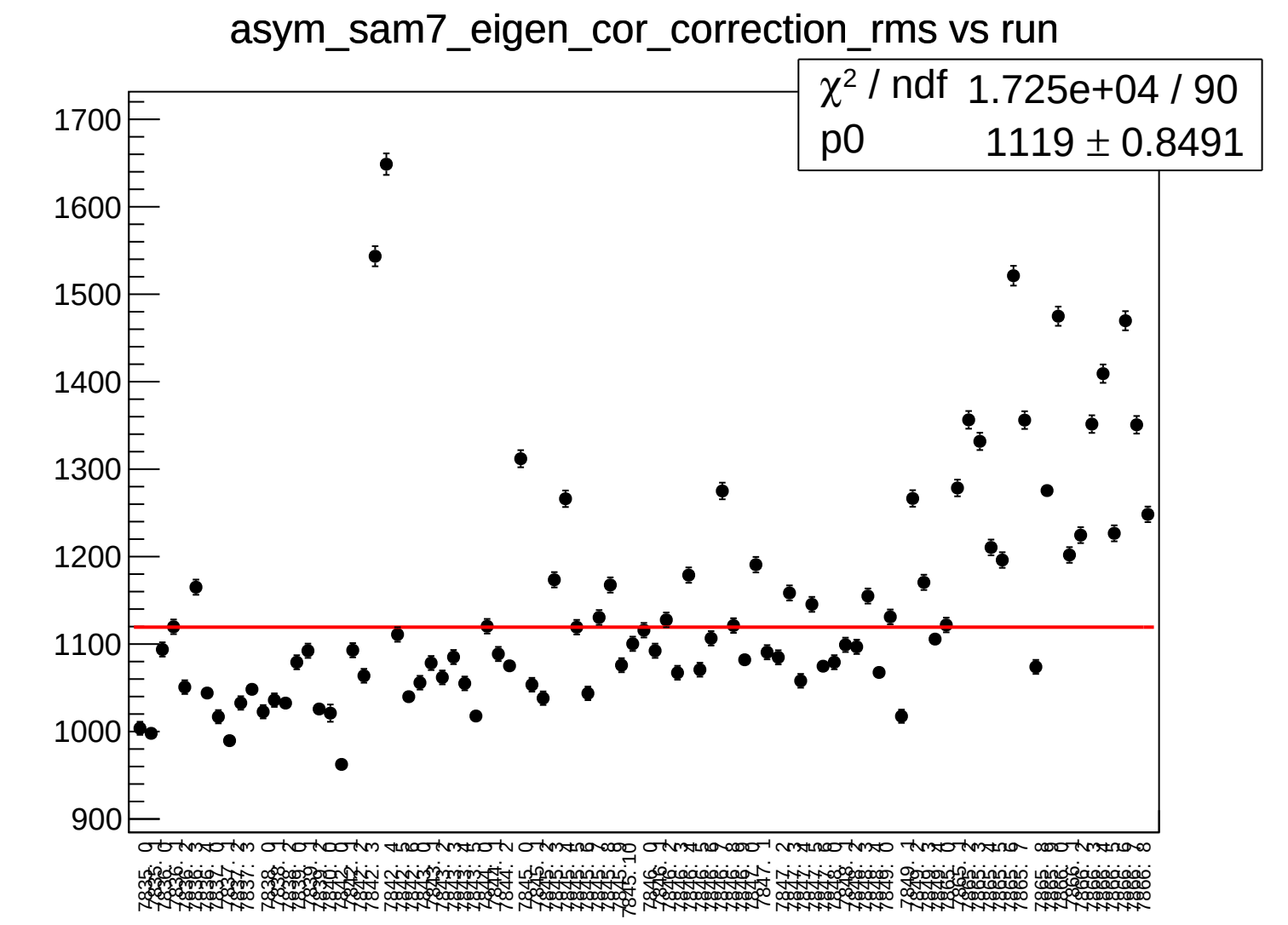

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.725e+04 / 90
p0 1119 ± 0.8491
1700
1600
1500
1400
1300
1200
1100
1000
900

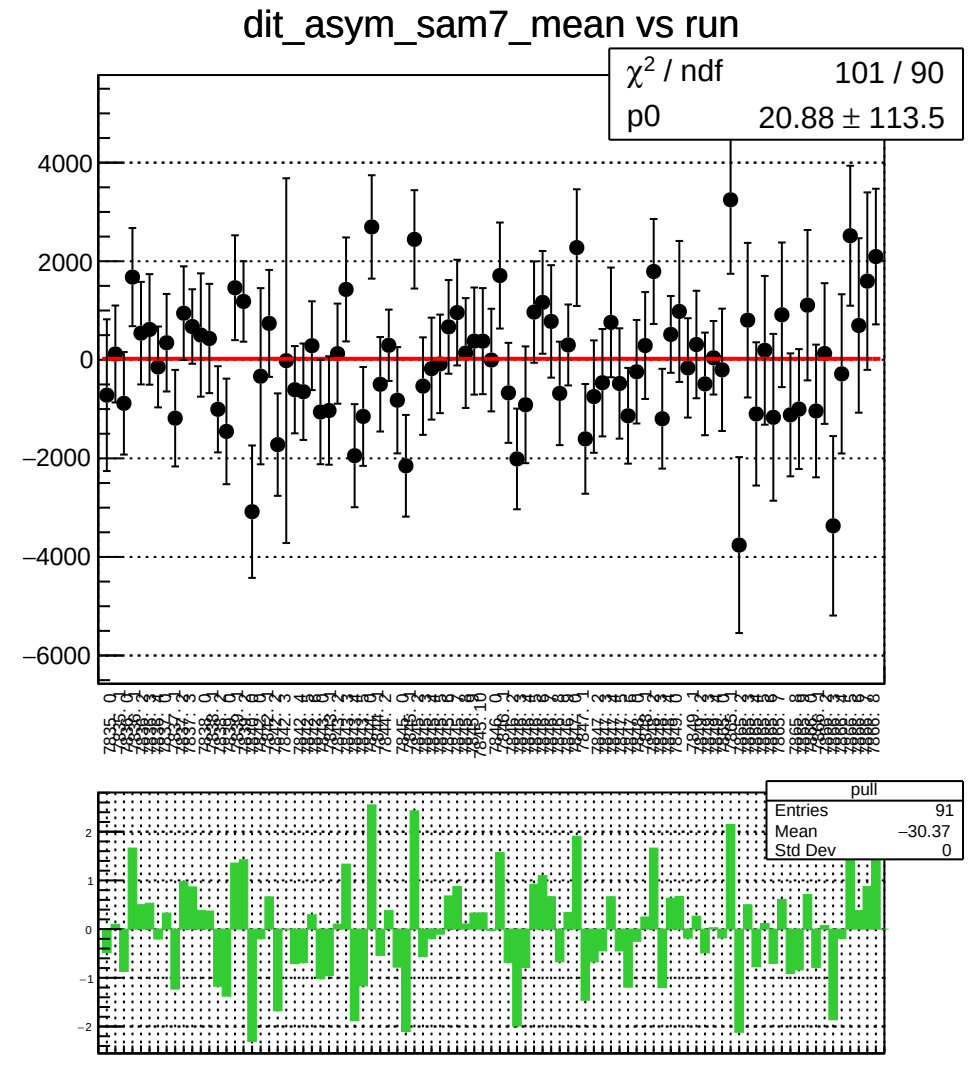

eigen_cor_asym_sam7_mean vs run
χ² / ndf 94.48 / 90
p0 17.36 ± 107
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 114.9
Std Dev 0
pull1D
Entries 91
Mean −0.0189
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

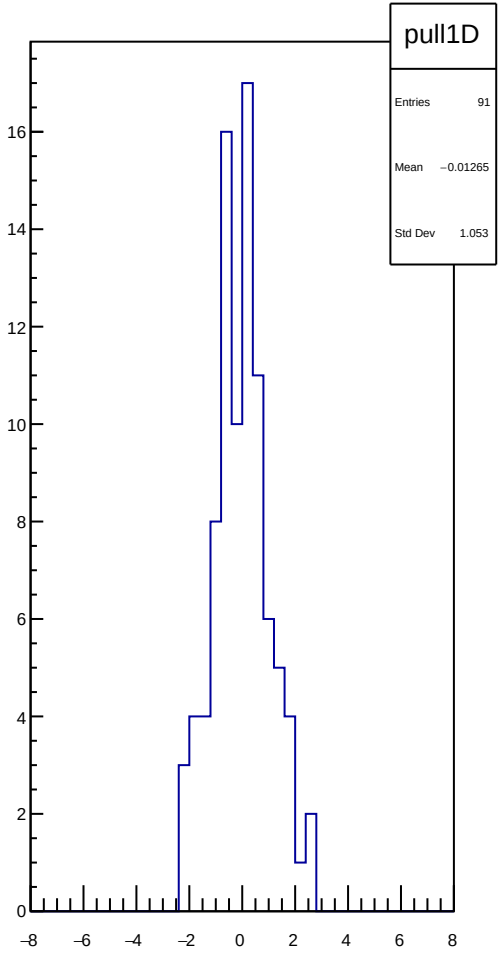

eigen_cor_asym_sam7_rms vs run
χ² / ndf 4.643e+04 / 90
p0 98.86 ± 0.07563
300
250
200
150
100

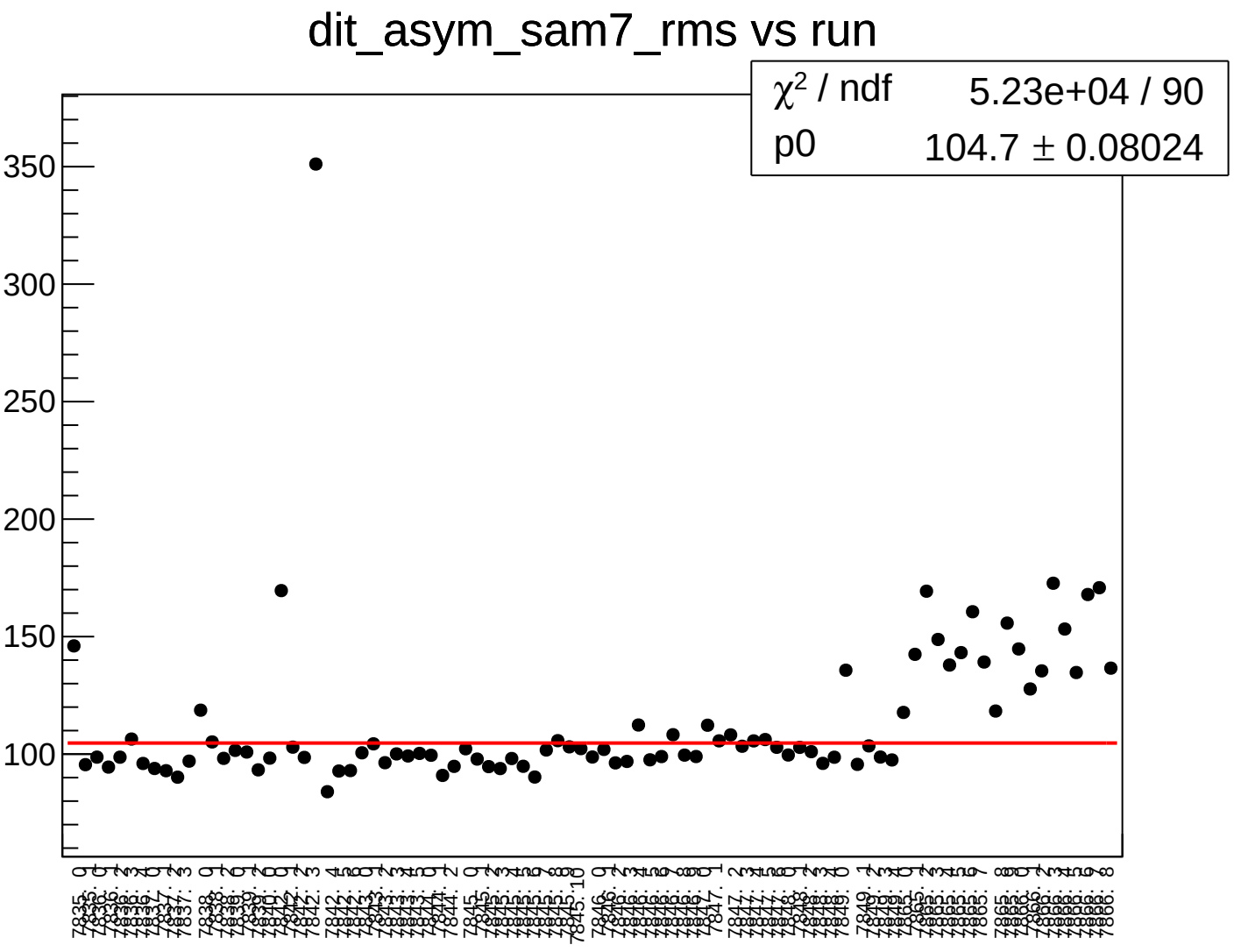

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 80.9 / 90
p0 −77.28 ± 1201
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 105.2
Std Dev 0
2
1
0
−1
−2

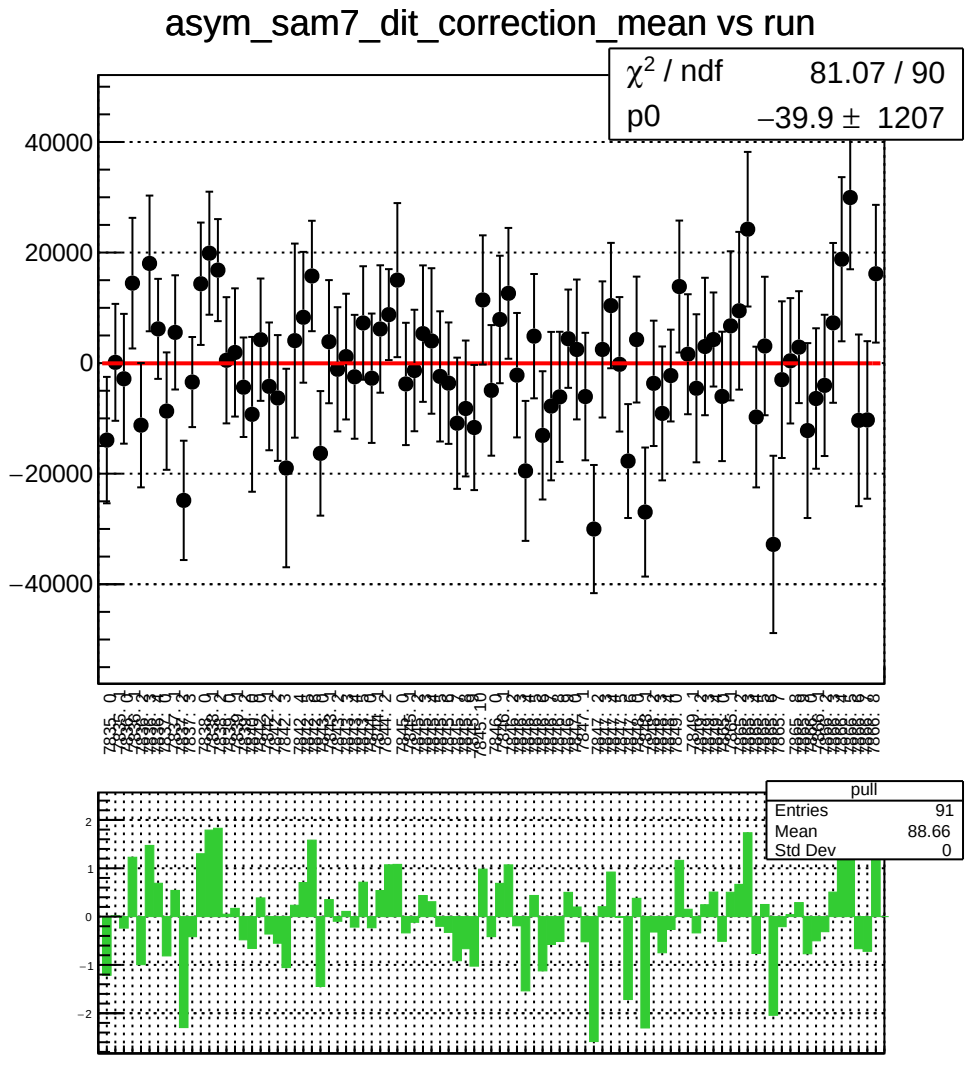

pull1D
Entries 91
Mean −0.01468
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

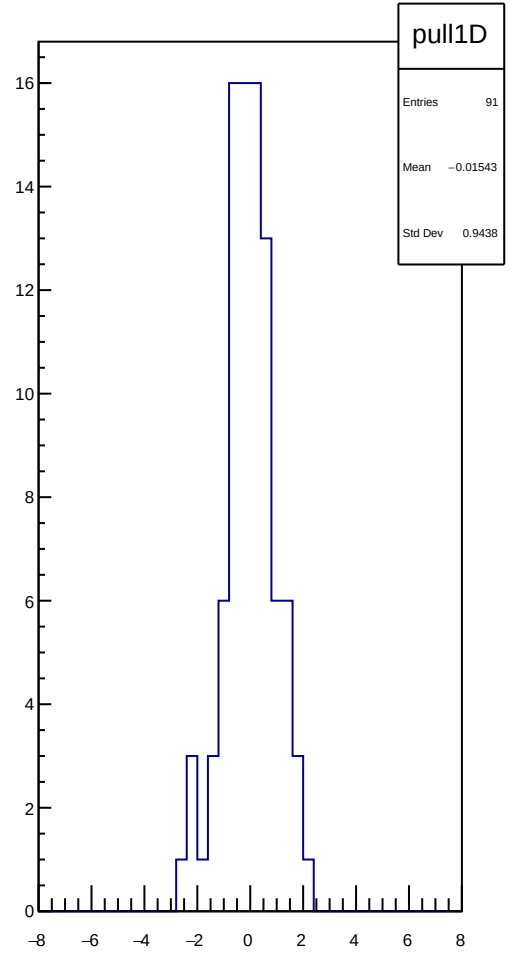

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.725e+04 / 90
p0 1119 ± 0.8491
1700
1600
1500
1400
1300
1200
1100
1000
900

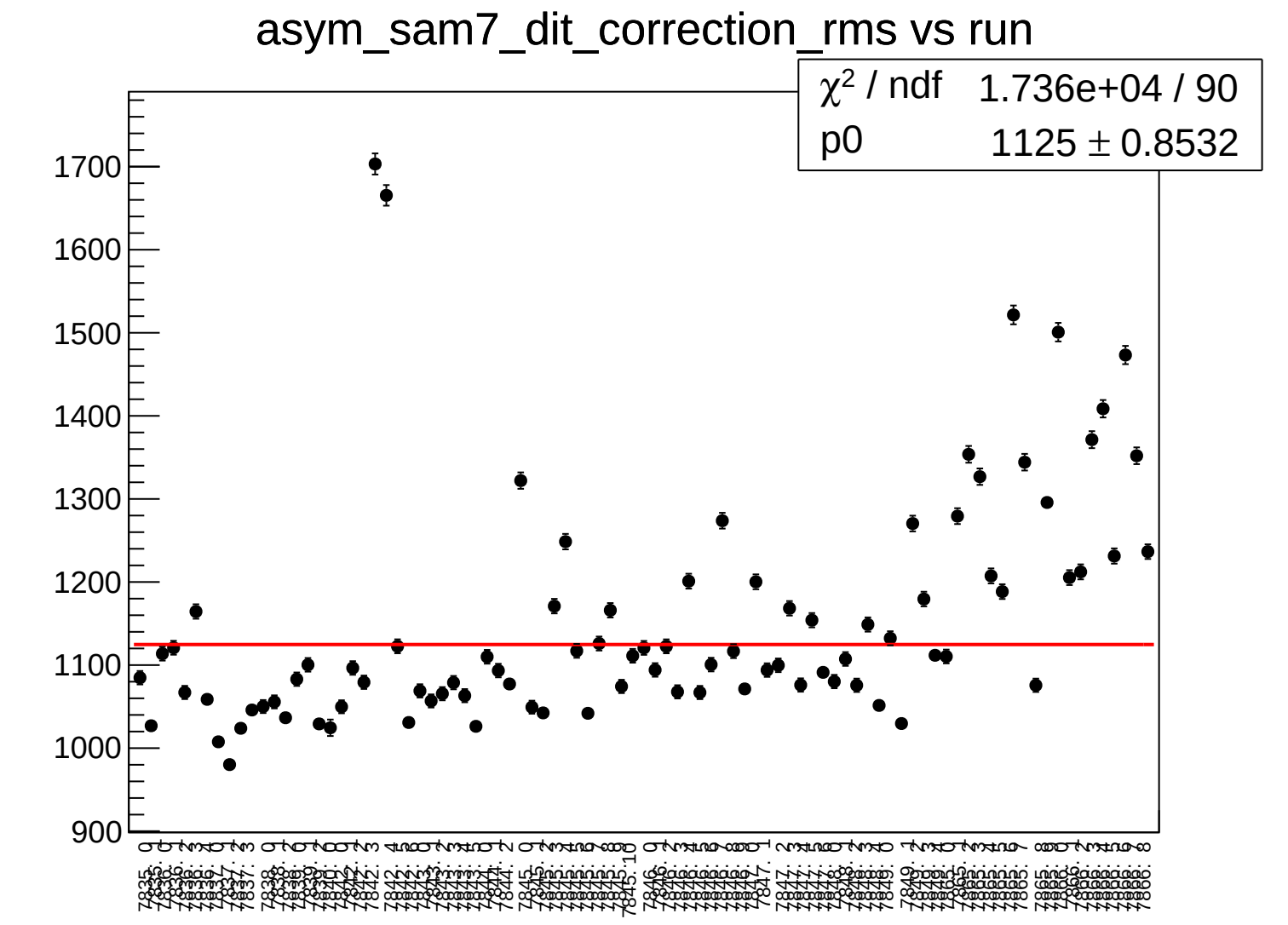

dit_asym_sam7_mean vs run
χ² / ndf 101 / 90
p0 20.88 ± 113.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −30.37
Std Dev 0
2
1
0
−1
−2

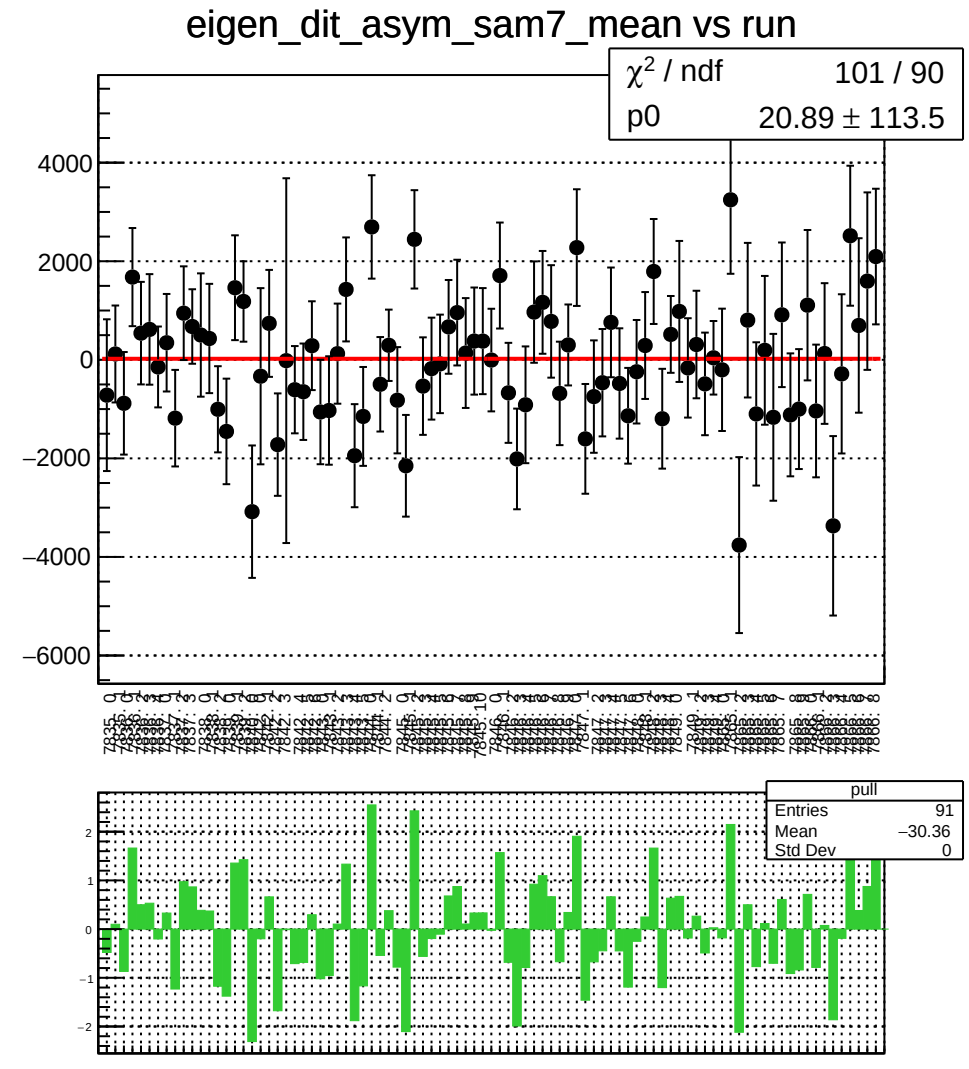

pull1D
Entries 91
Mean −0.01265
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

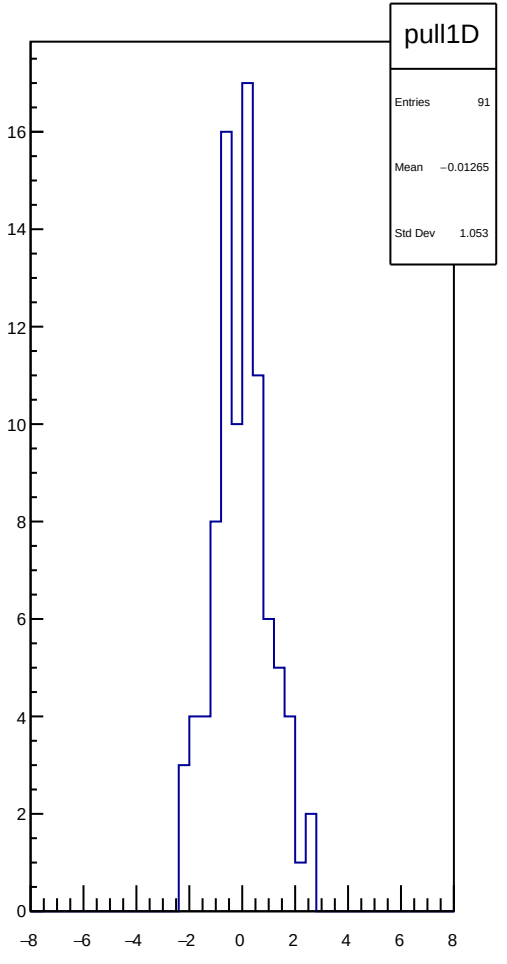

dit_asym_sam7_rms vs run
χ^2 / ndf 5.23e+04 / 90
p0 104.7 ± 0.08024
350
300
250
200
150
100

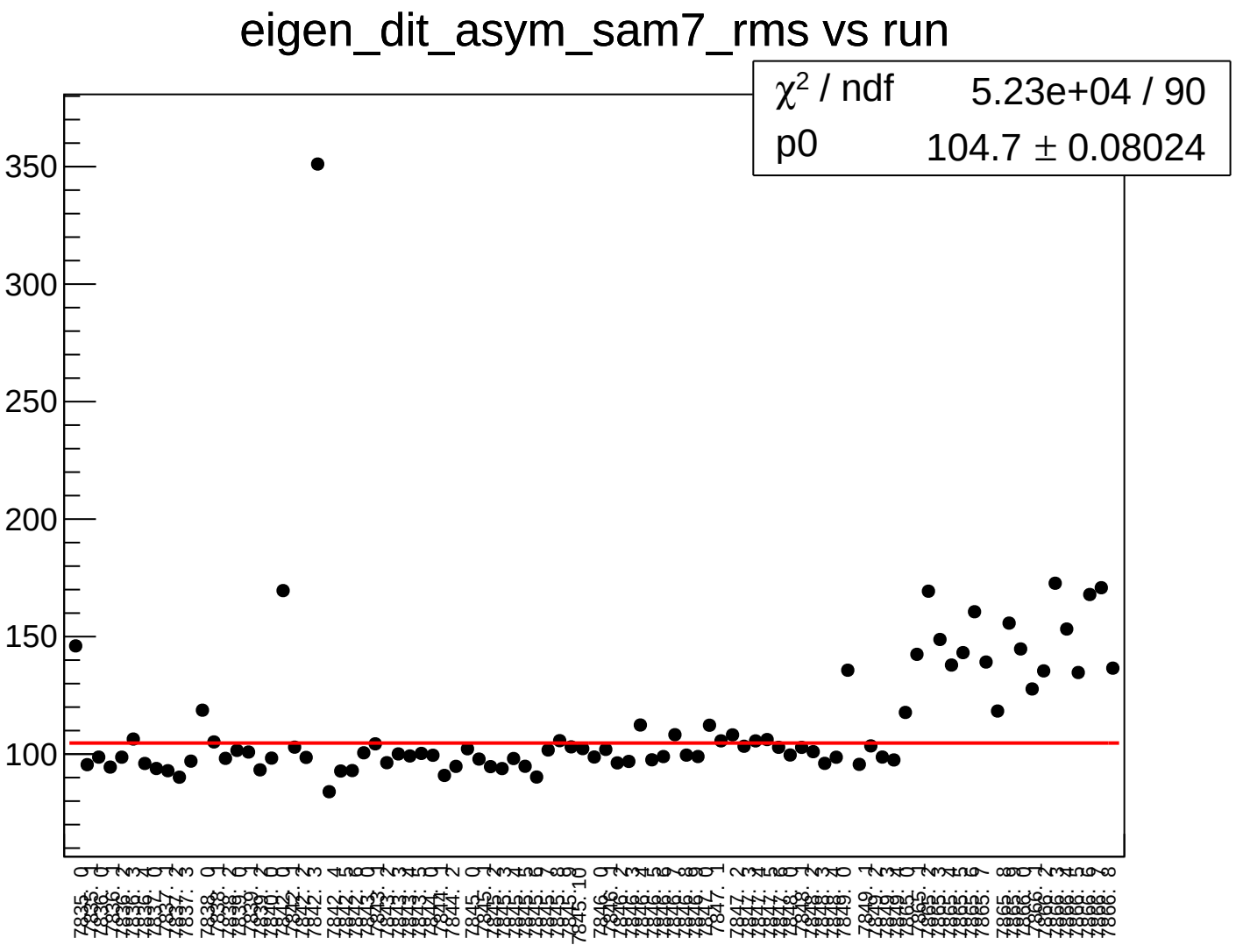

asym_sam7_dit_correction_mean vs run
χ² / ndf 81.07 / 90
p0 −39.9 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 88.66
Std Dev 0
2
1
0
−1
−2

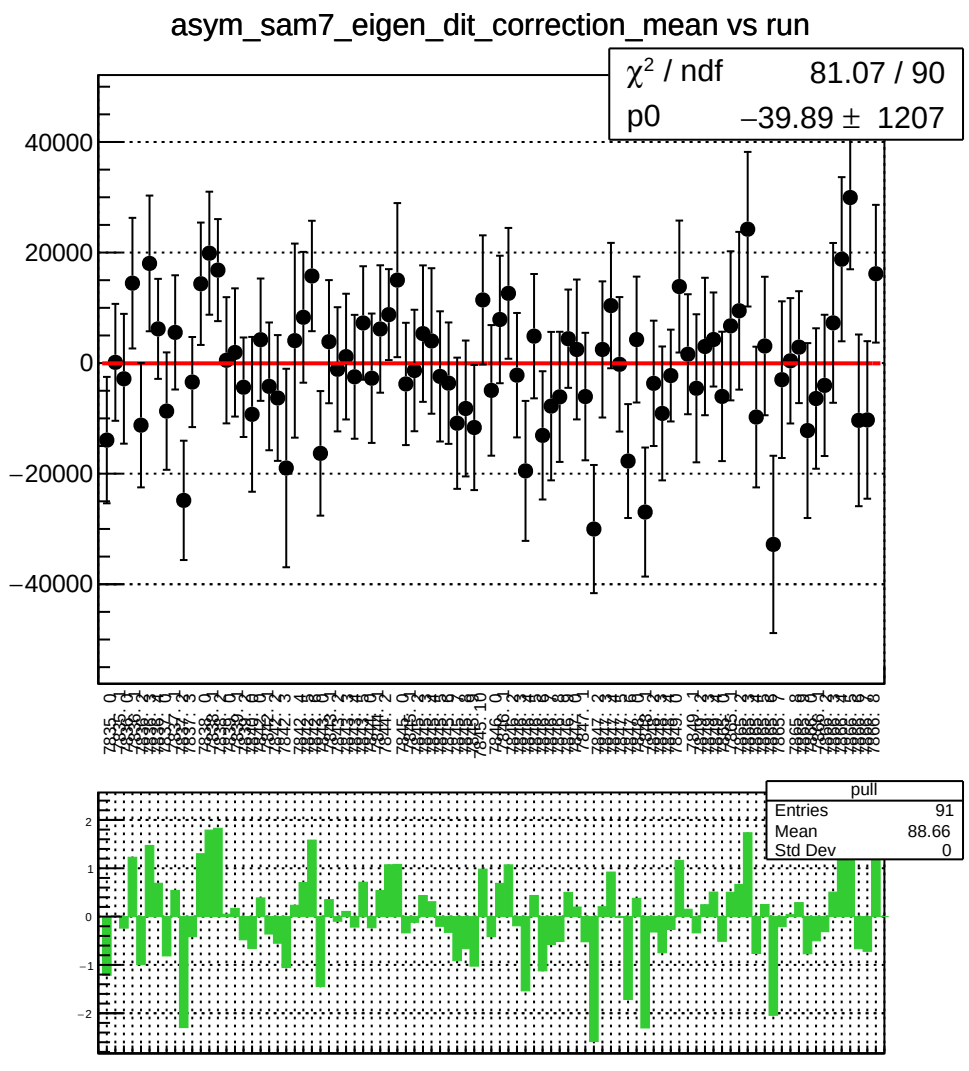

pull1D
Entries 91
Mean −0.01543
Std Dev 0.9438
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

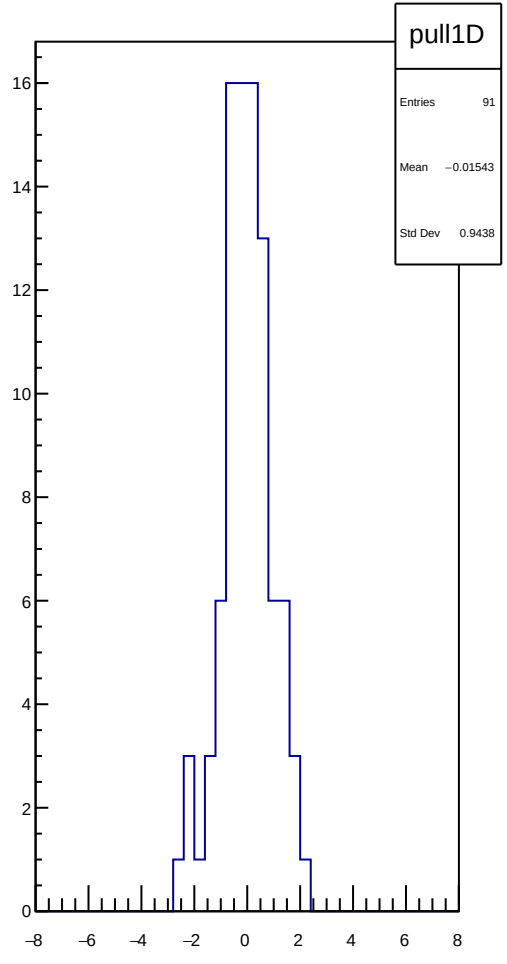

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.736e+04 / 90
p0 1125 ± 0.8532
1700
1600
1500
1400
1300
1200
1100
1000
900

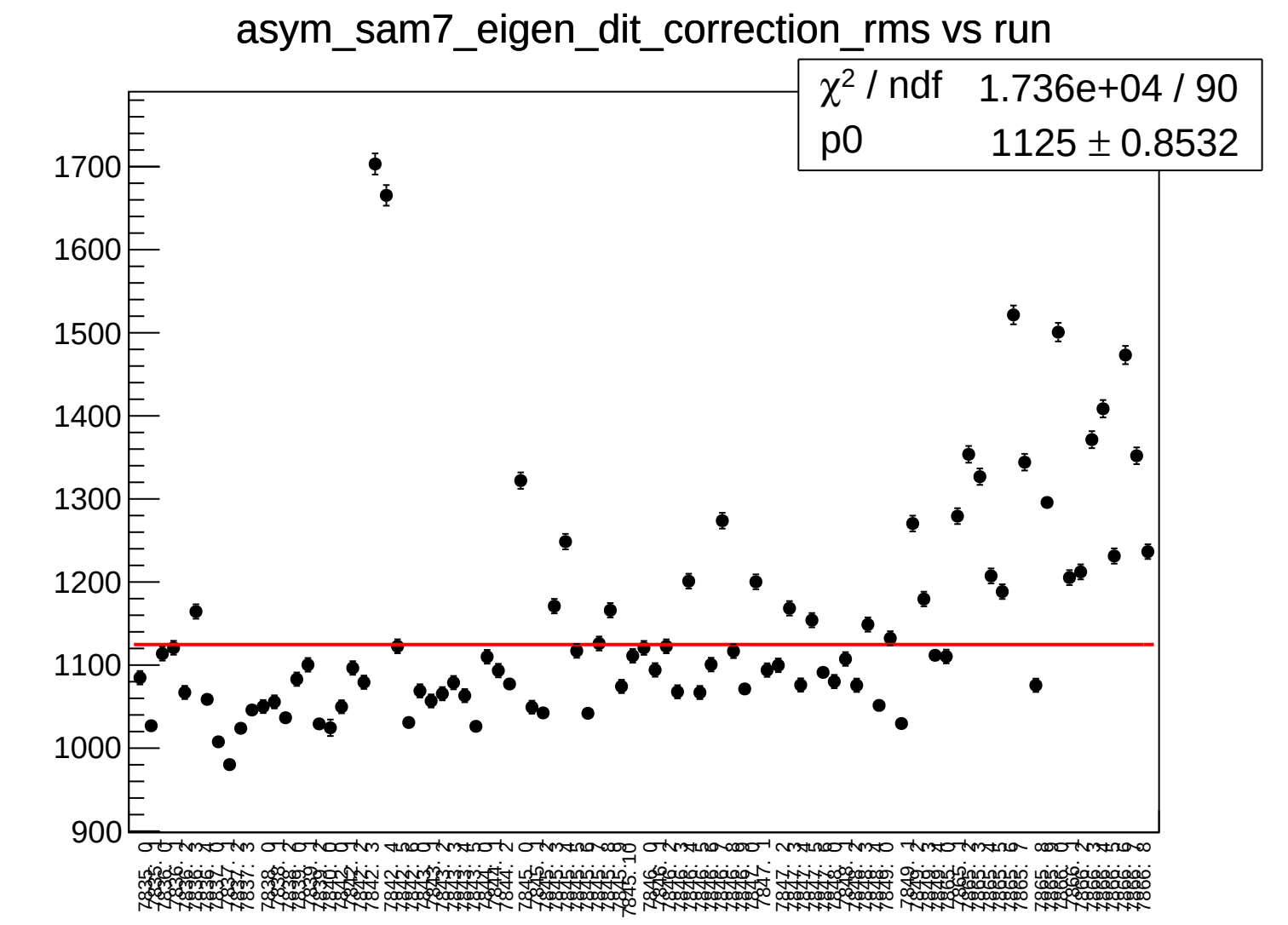

eigen_dit_asym_sam7_mean vs run
χ² / ndf 101 / 90
p0 20.89 ± 113.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −30.36
Std Dev 0
2
1
0
−1
−2

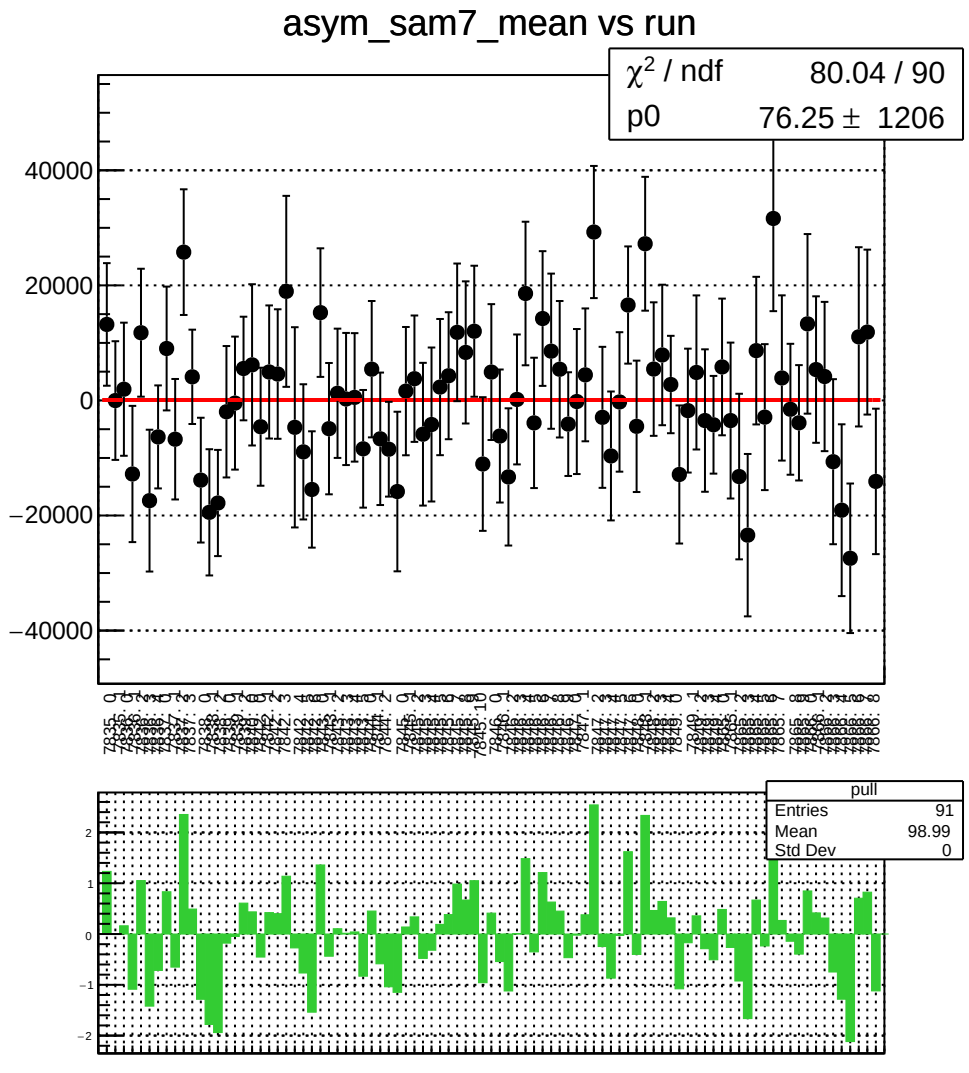

pull1D
Entries 91
Mean −0.01265
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

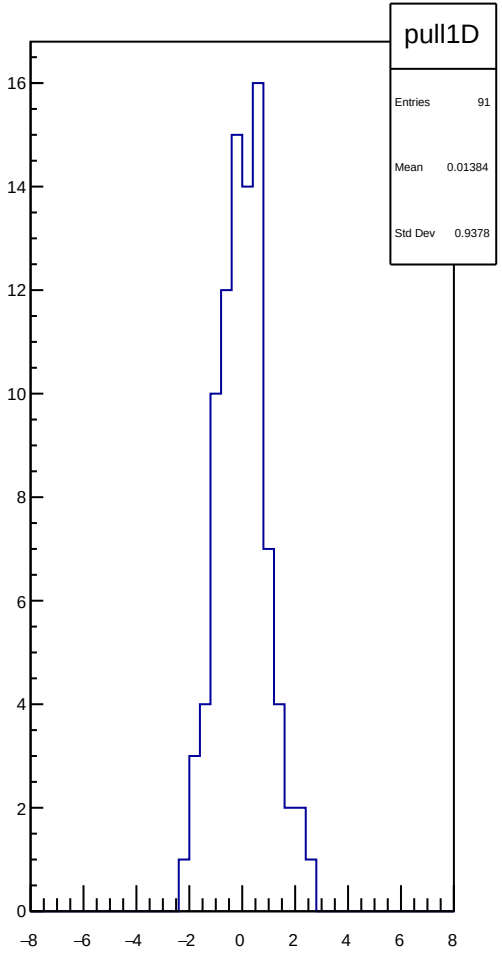

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 5.23e+04 / 90
p0 104.7 ± 0.08024
350
300
250
200
150
100

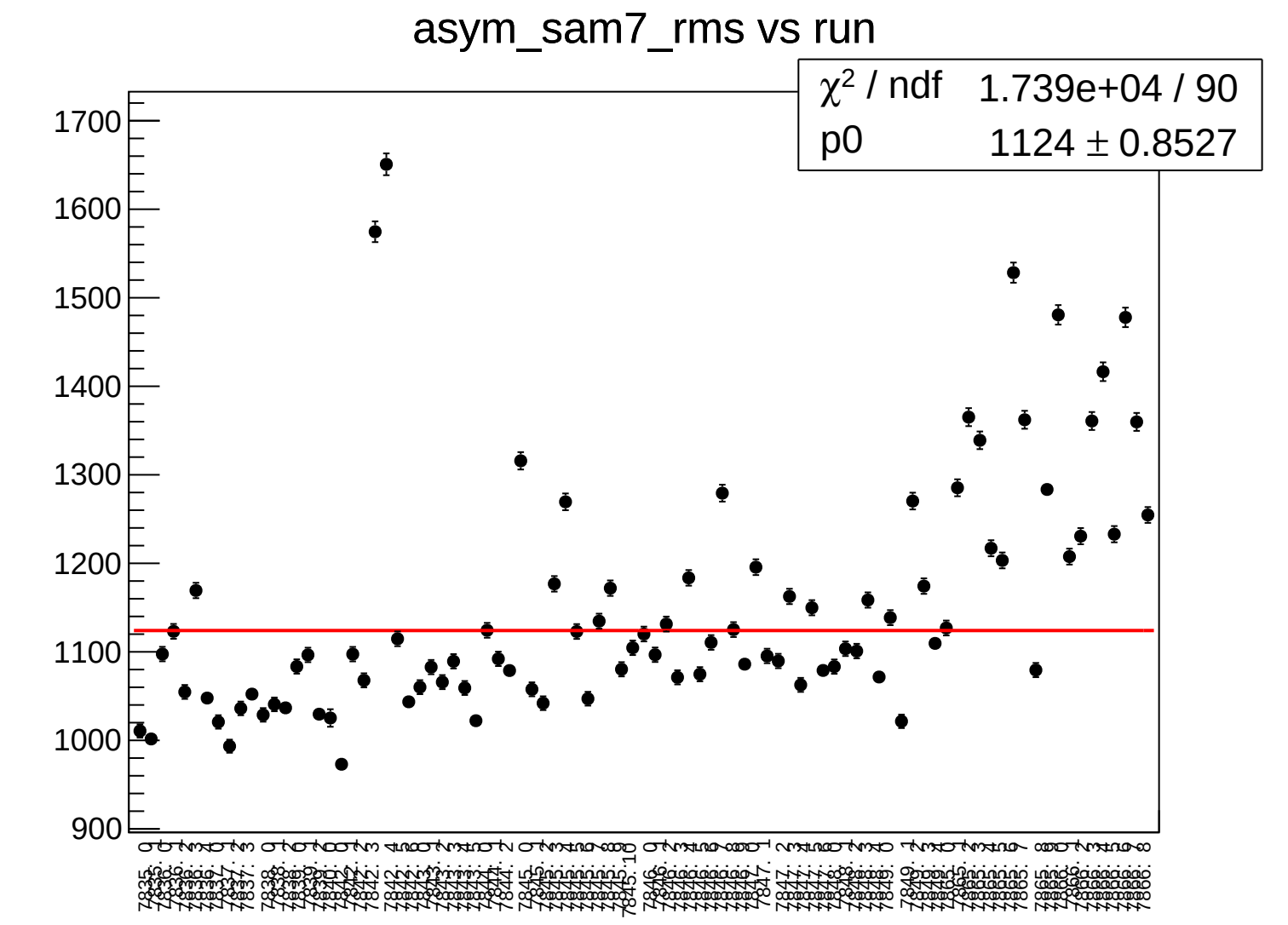

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 81.07 / 90
p0 −39.89 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 88.66
Std Dev 0
2
1
0
−1
−2

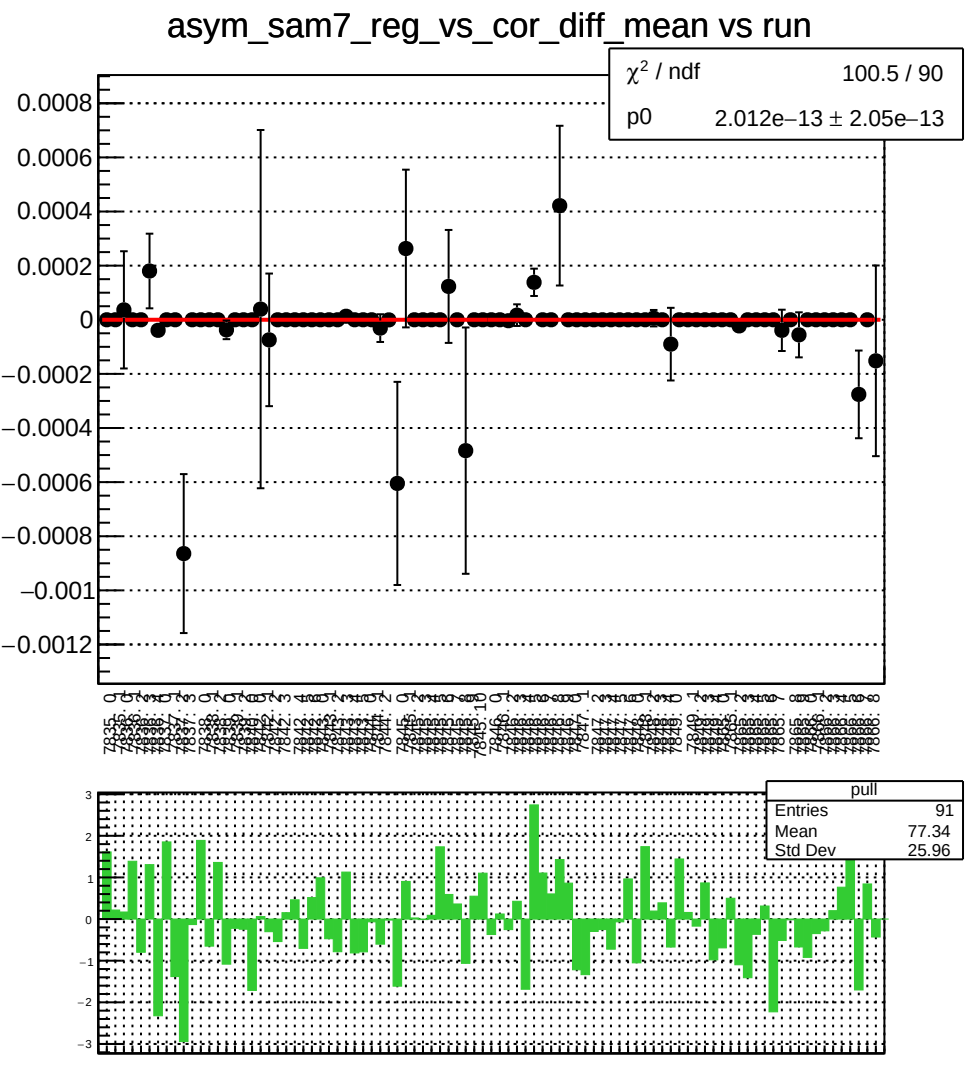

pull1D
Entries 91
Mean −0.01543
Std Dev 0.9438
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

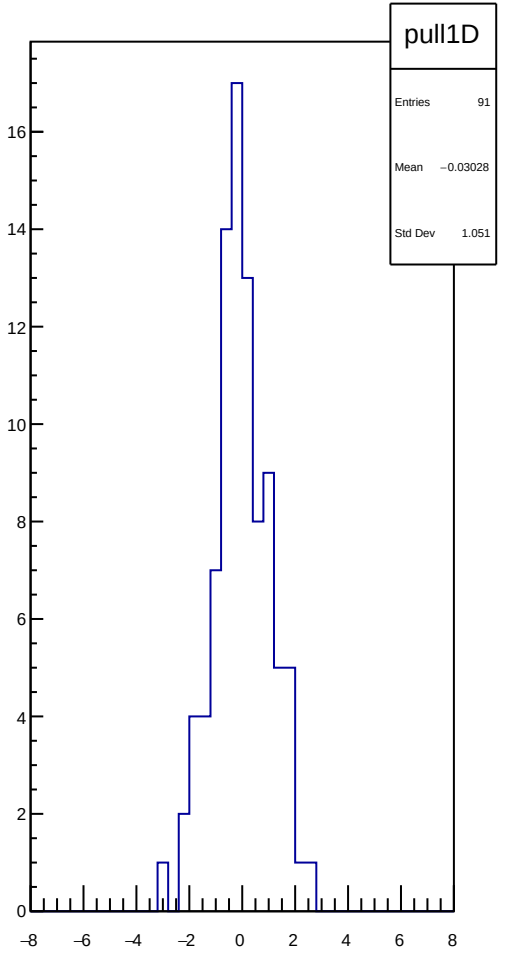

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.736e+04 / 90
p0 1125 ± 0.8532
1700
1600
1500
1400
1300
1200
1100
1000
900

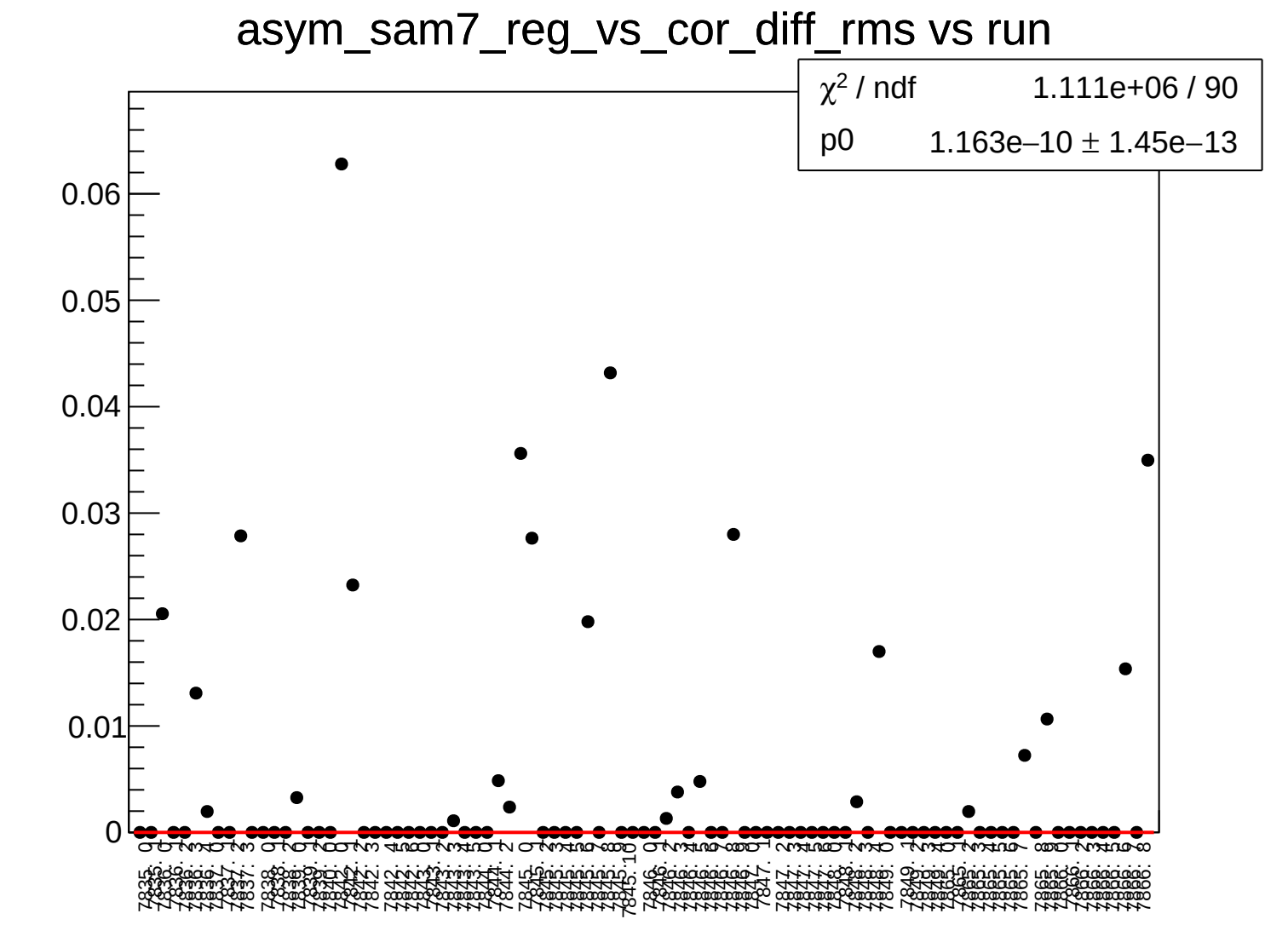

asym_sam7_mean vs run
χ² / ndf 80.04 / 90
p0 76.25 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 98.99
Std Dev 0
2
1
0
−1
−2

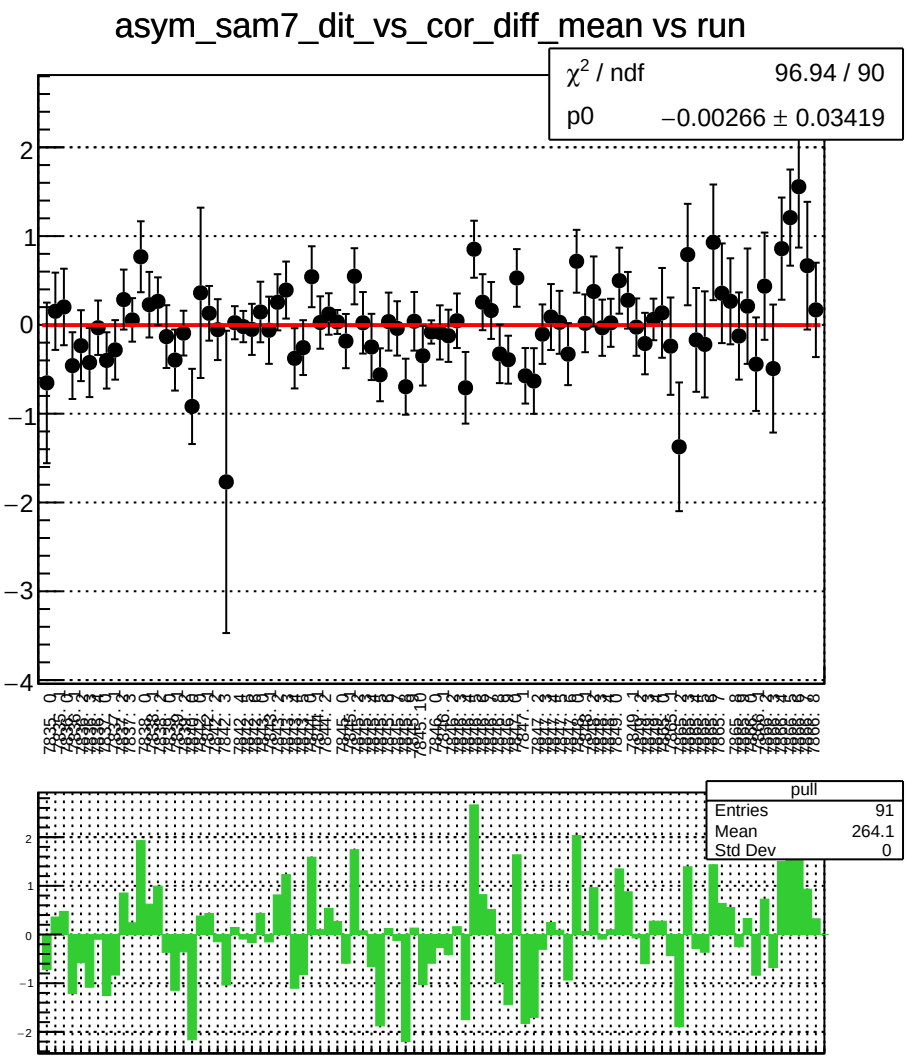

pull1D
Entries 91
Mean 0.01384
Std Dev 0.9378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

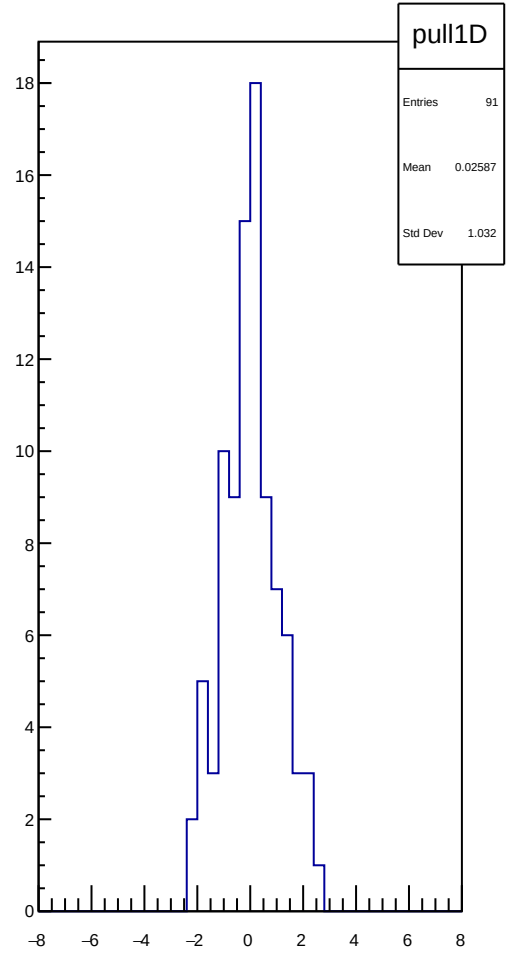

asym_sam7_rms vs run
χ² / ndf 1.739e+04 / 90
p0 1124 ± 0.8527
1700
1600
1500
1400
1300
1200
1100
1000
900

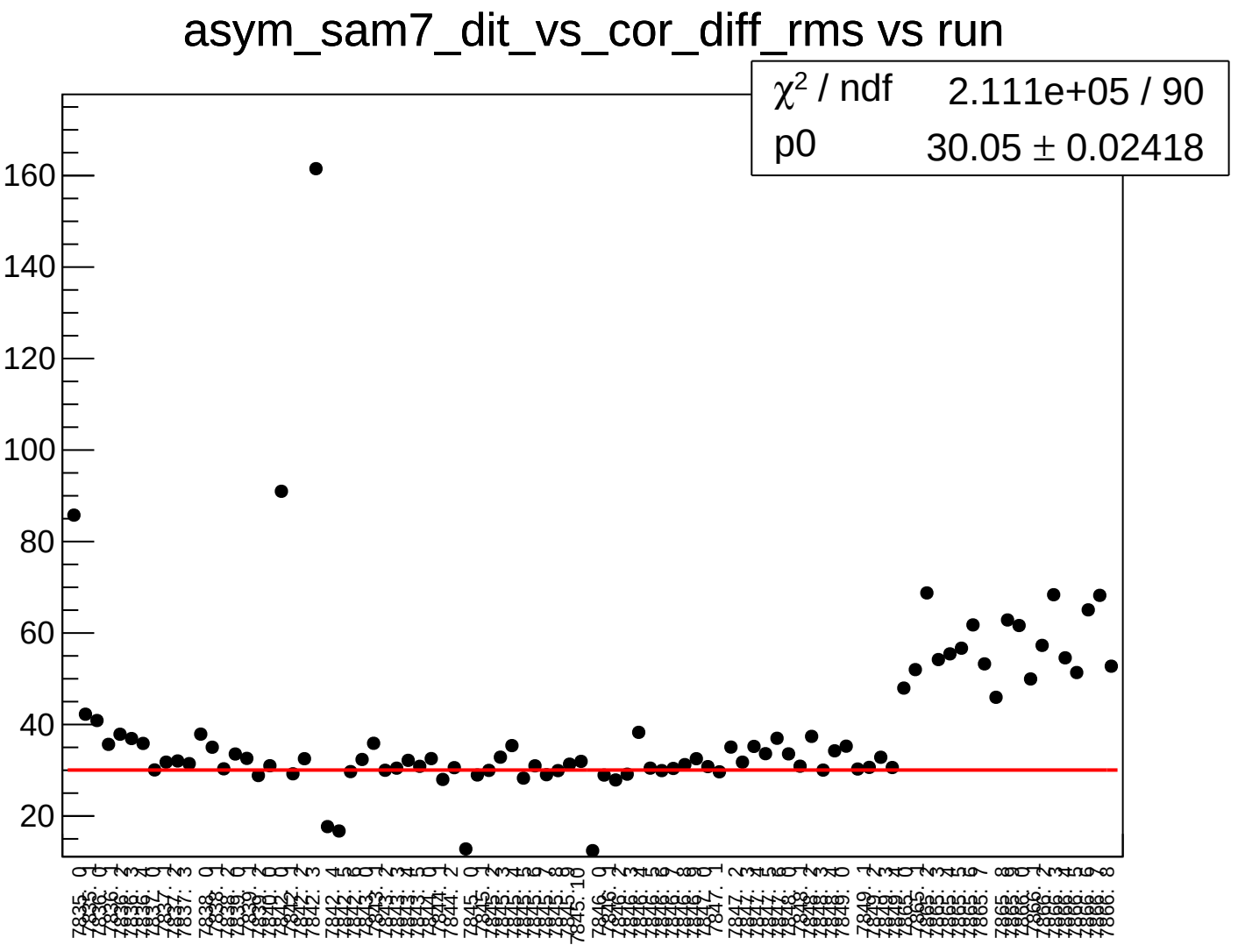

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 90
p0 2.012e−13 ± 2.05e−13
pull
Entries 91
Mean 77.34
Std Dev 25.96

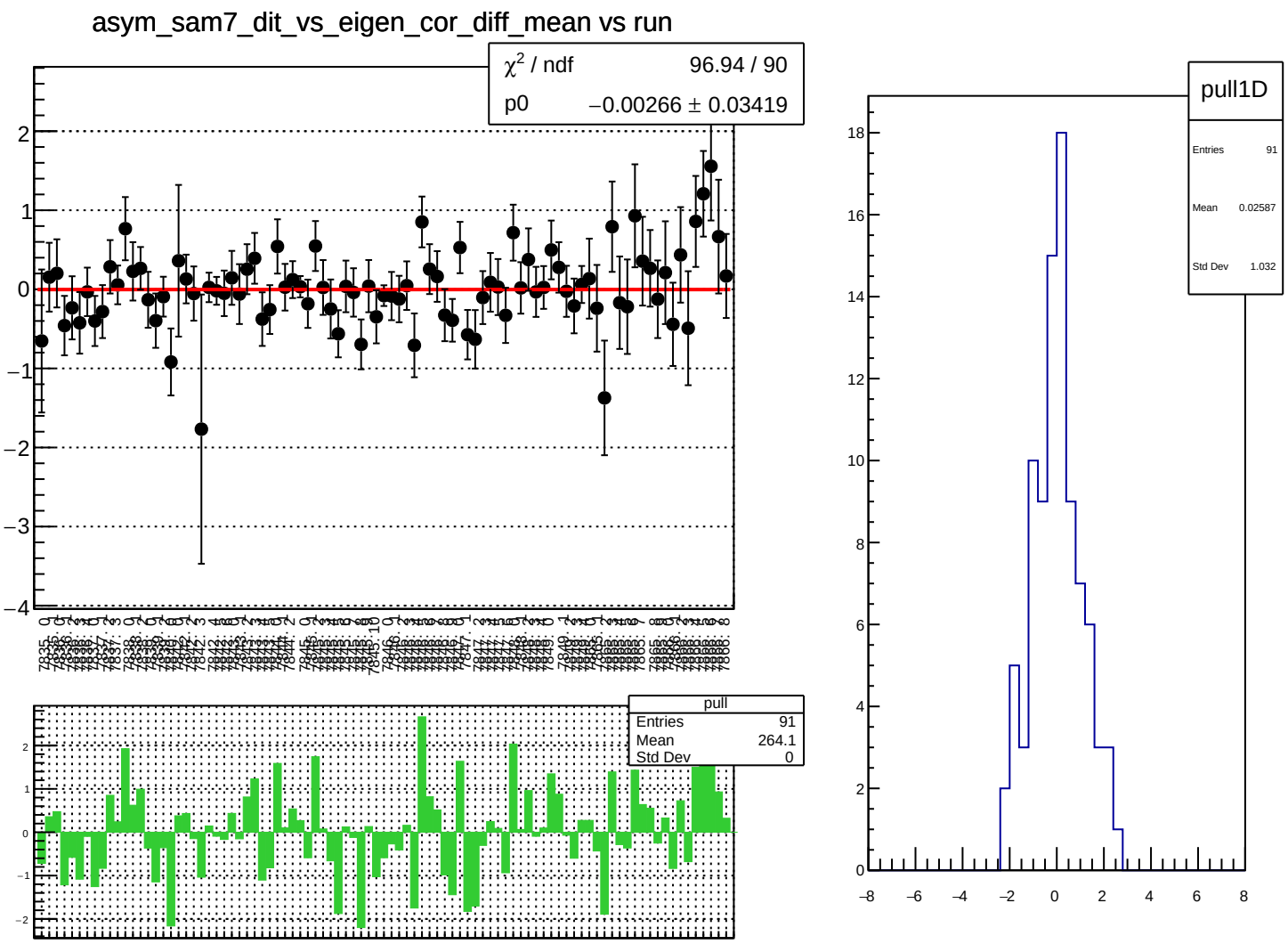

pull1D
Entries 91
Mean −0.03028
Std Dev 1.051

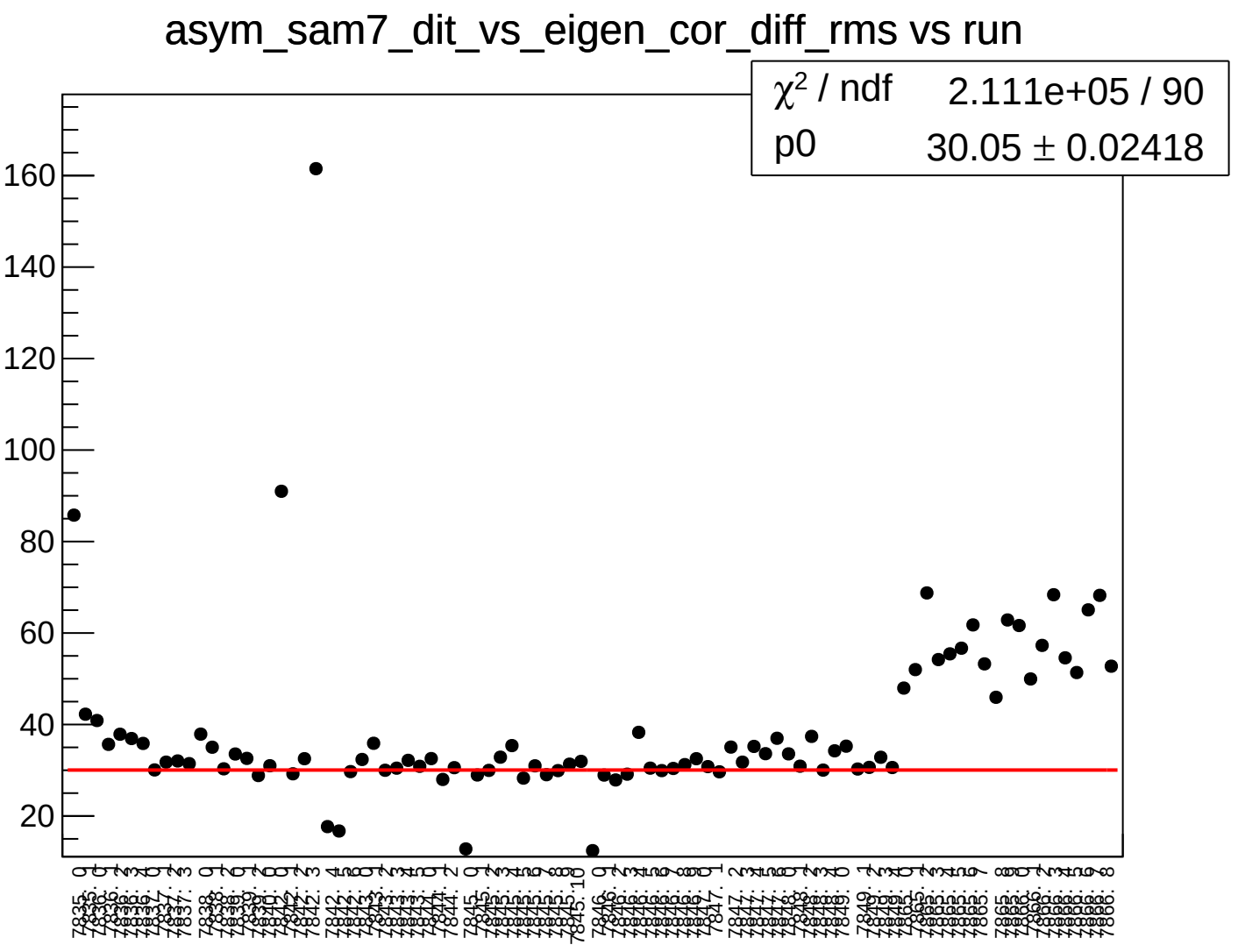

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 90
p0 1.163e−10 ± 1.45e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

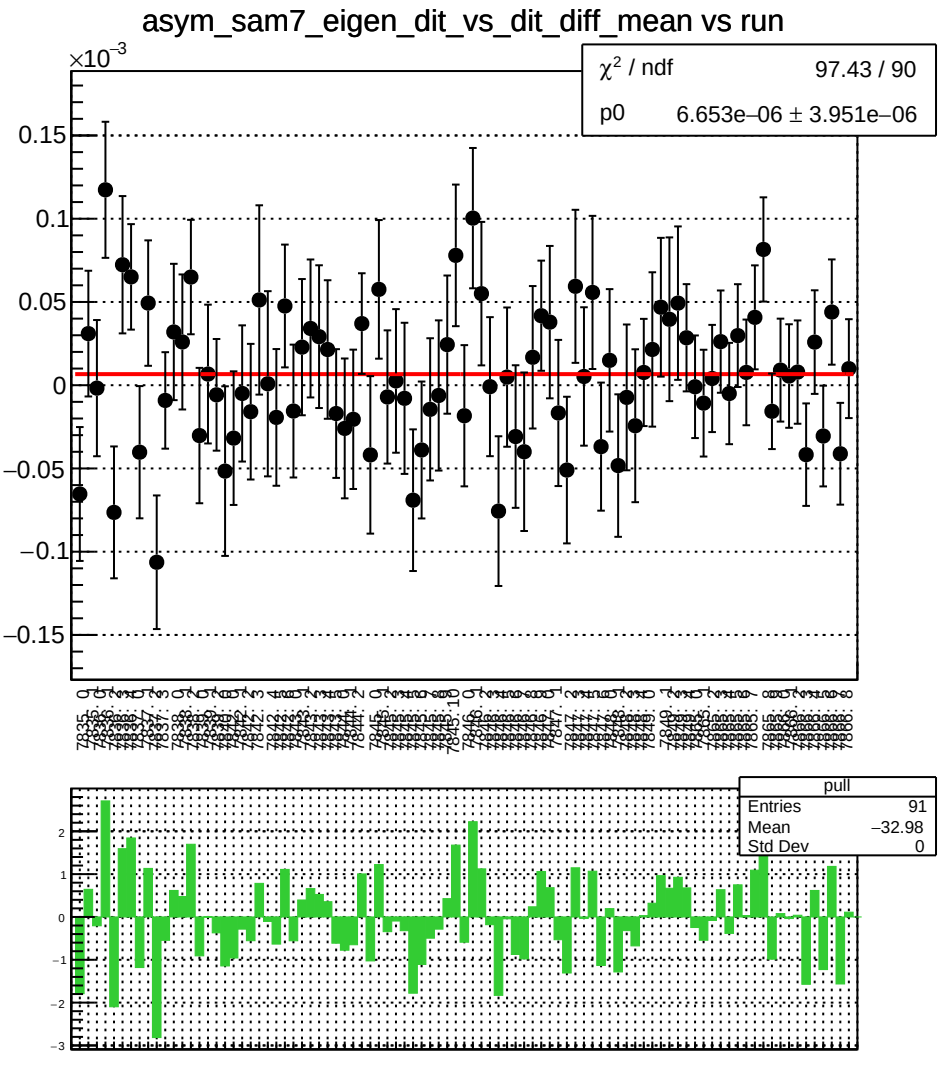

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 96.94 / 90
p0 −0.00266 ± 0.03419
pull
Entries 91
Mean 264.1
Std Dev 0

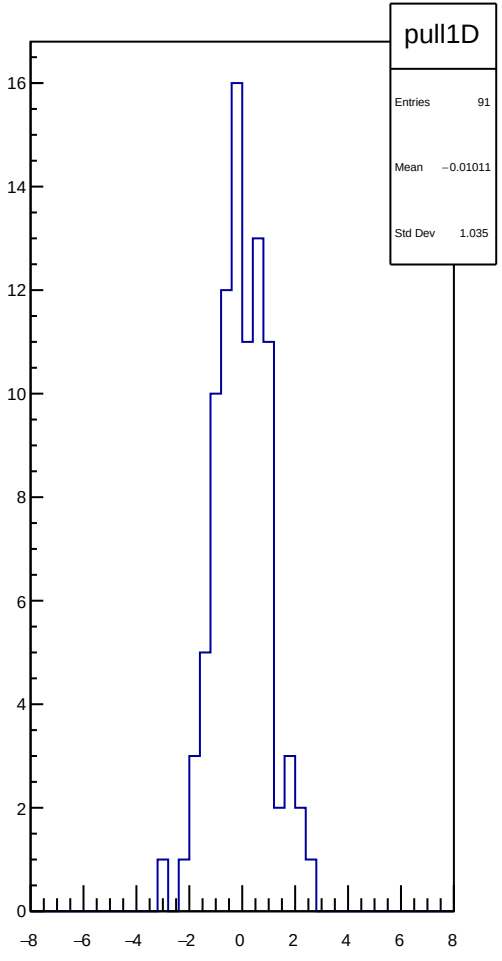

pull1D
Entries 91
Mean 0.02587
Std Dev 1.032

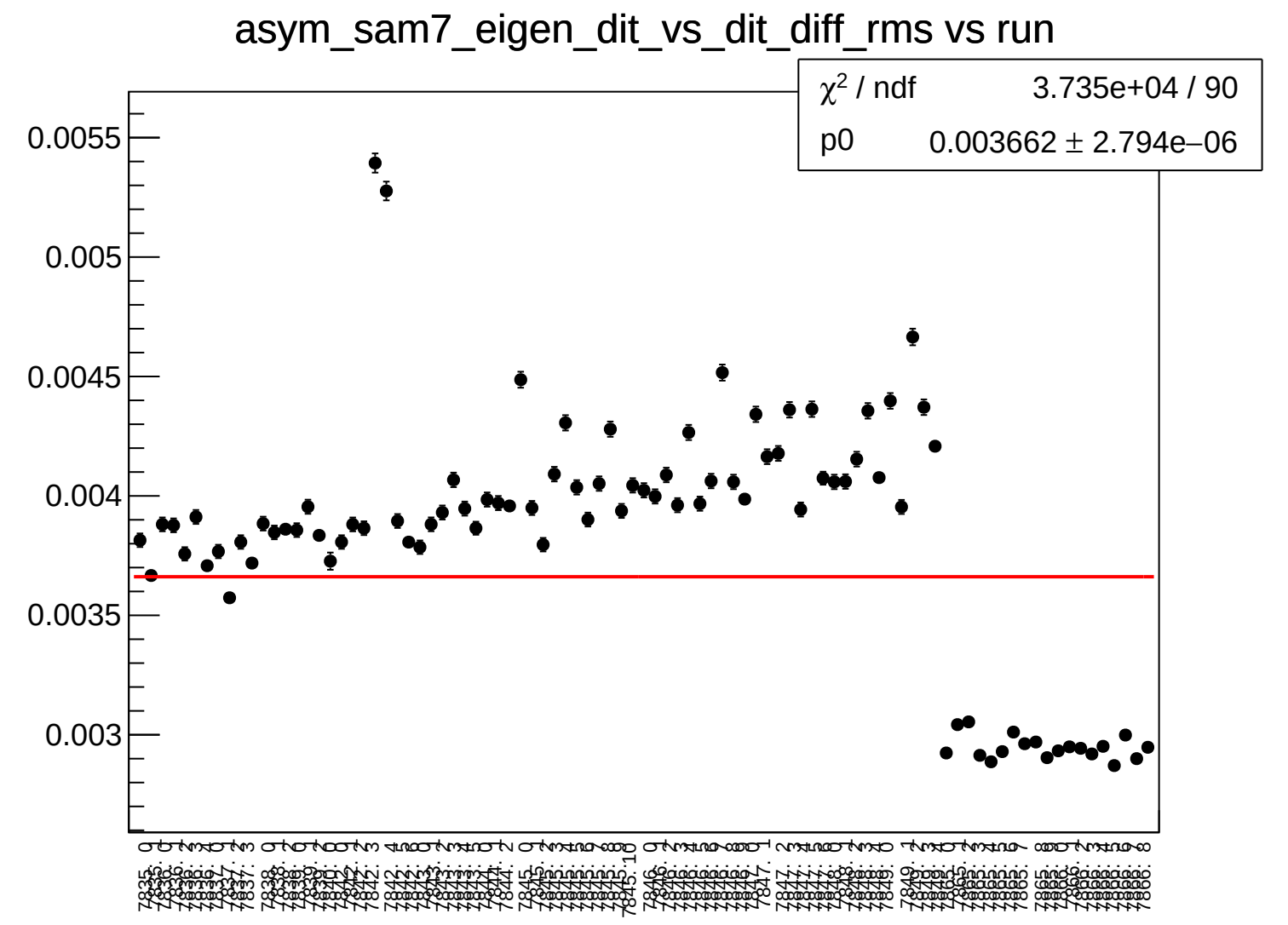

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 2.111e+05 / 90
p0 30.05 ± 0.02418
160
140
120
100
80
60
40
20

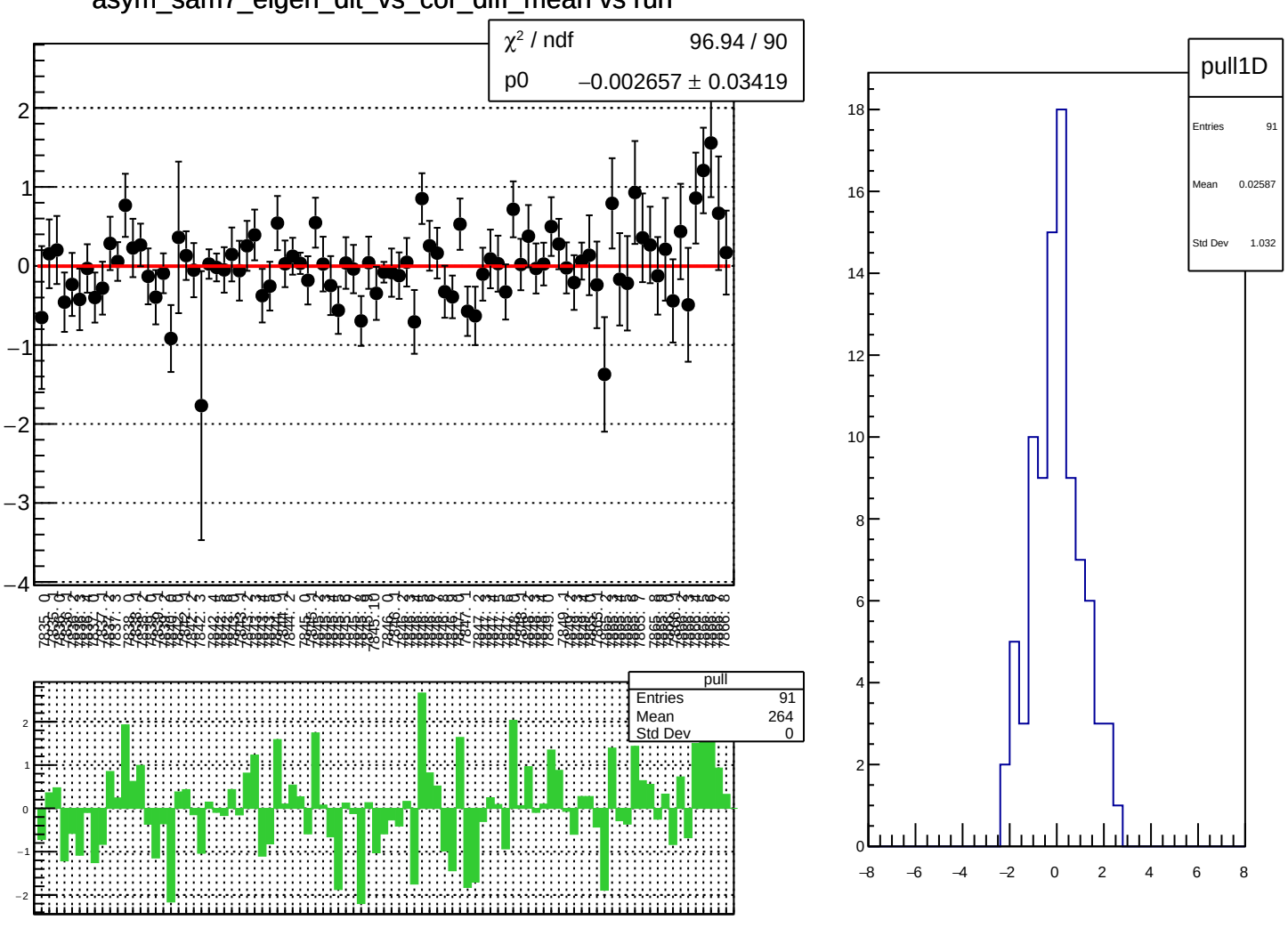

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.94 / 90
p0 −0.00266 ± 0.03419
pull
Entries 91
Mean 264.1
Std Dev 0
pull1D
Entries 91
Mean 0.02587
Std Dev 1.032

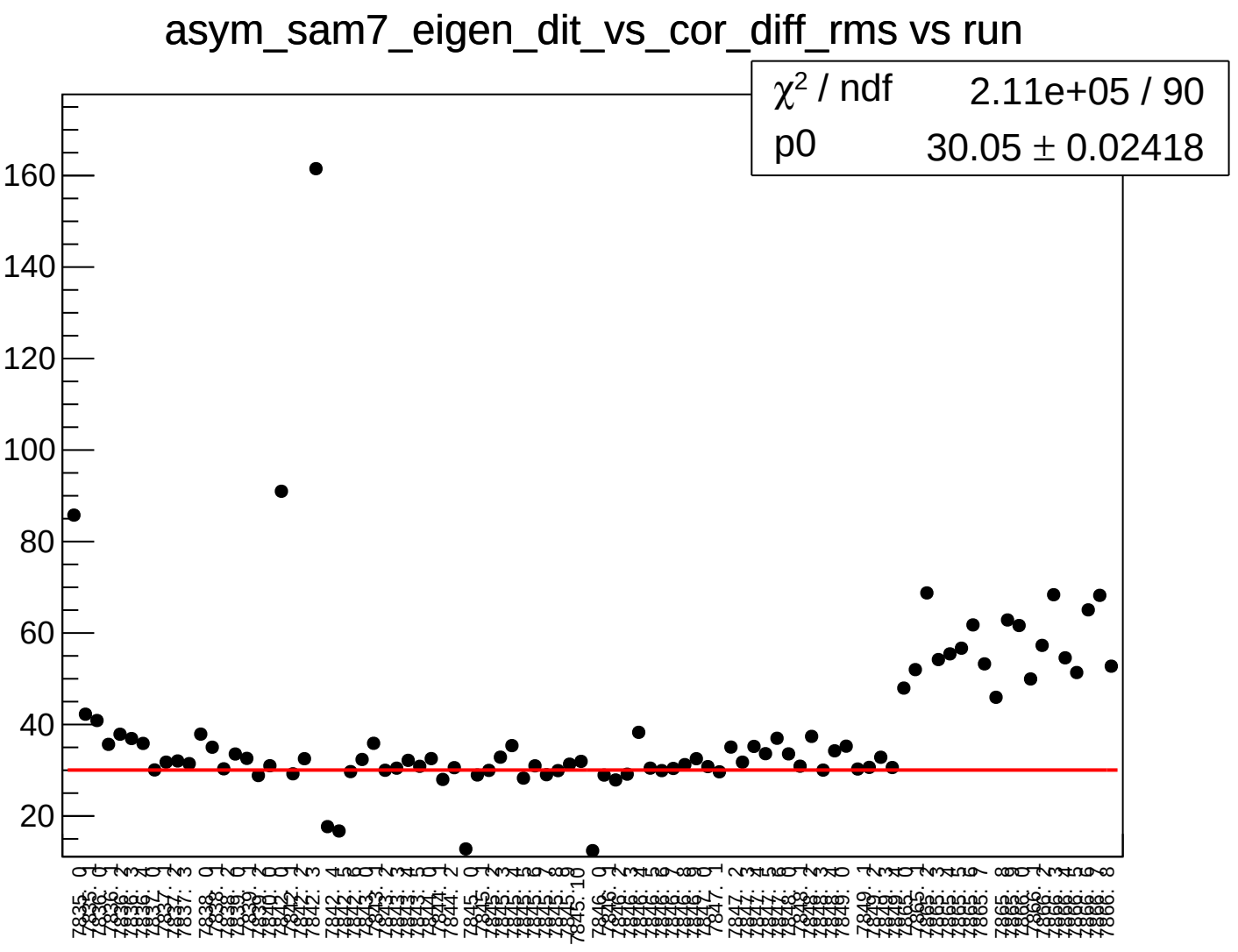

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.111e+05 / 90
p0 30.05 ± 0.02418
160
140
120
100
80
60
40
20

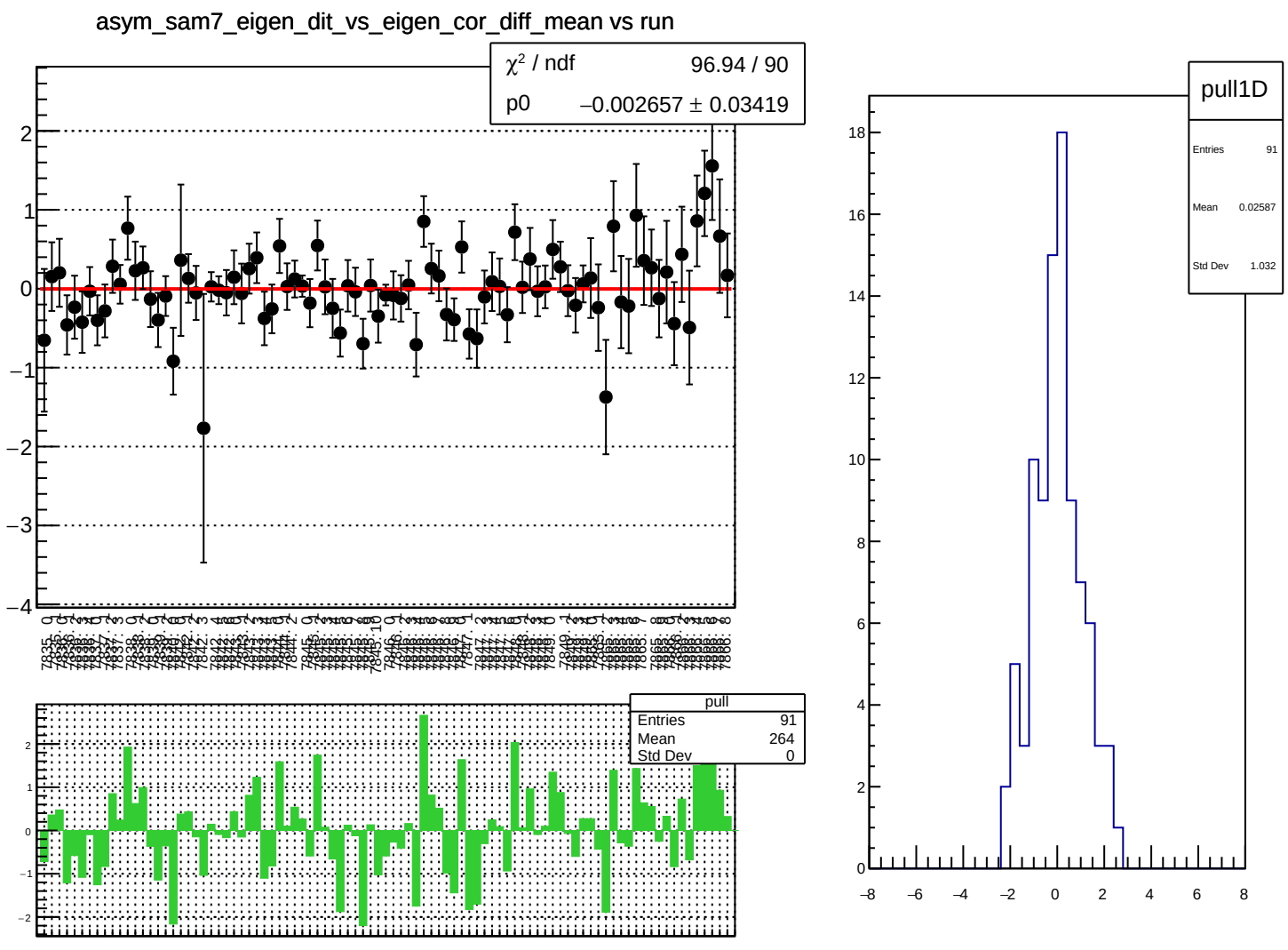

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.43 / 90
p0 6.653e−06 ± 3.951e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −32.98
Std Dev 0
2
1
0
−1
−2
−3

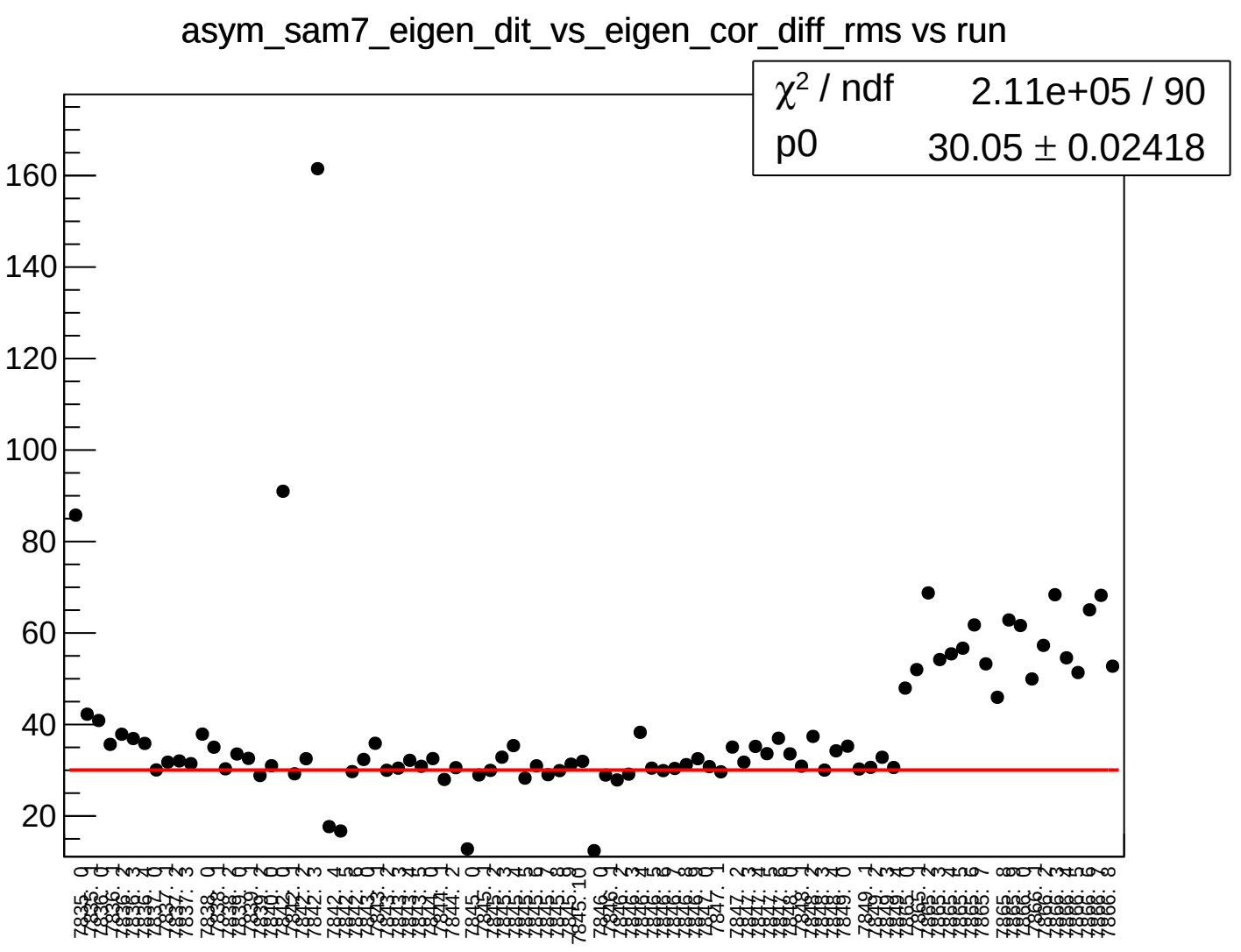

pull1D
Entries 91
Mean −0.01011
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

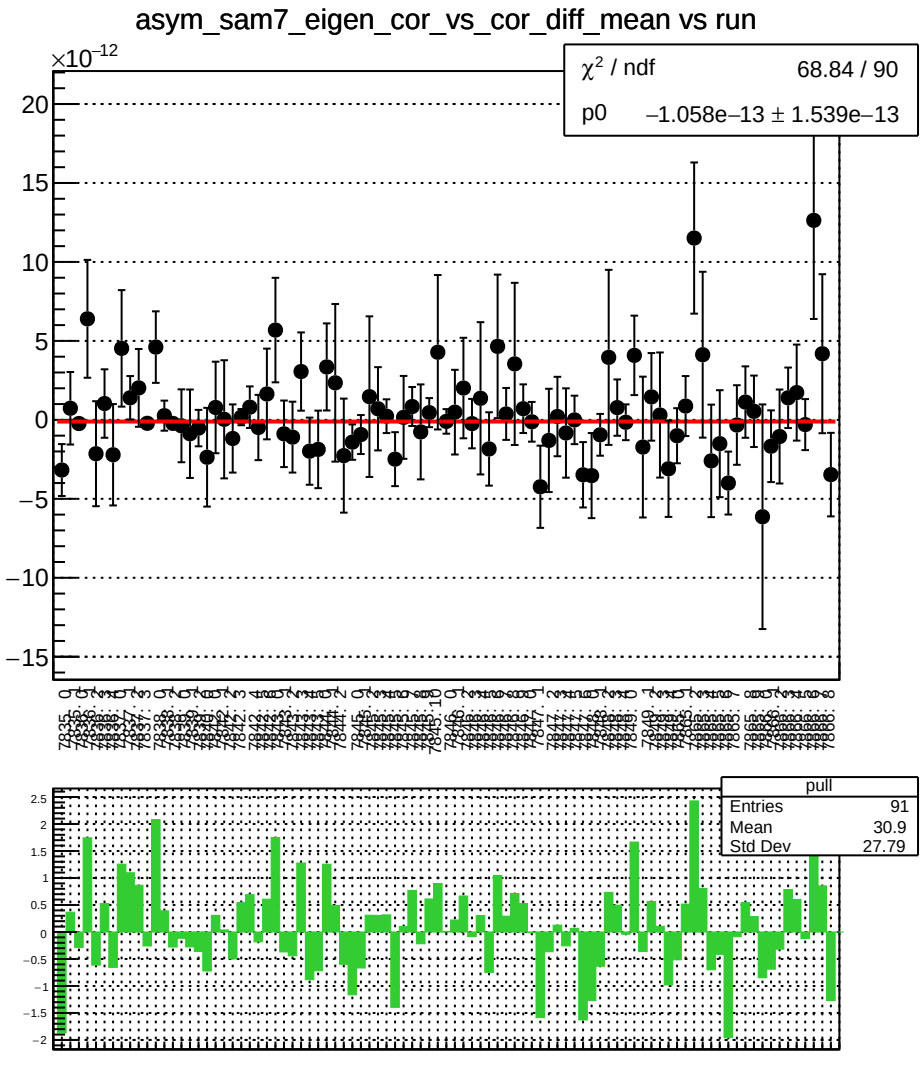

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.735e+04 / 90
p0 0.003662 ± 2.794e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

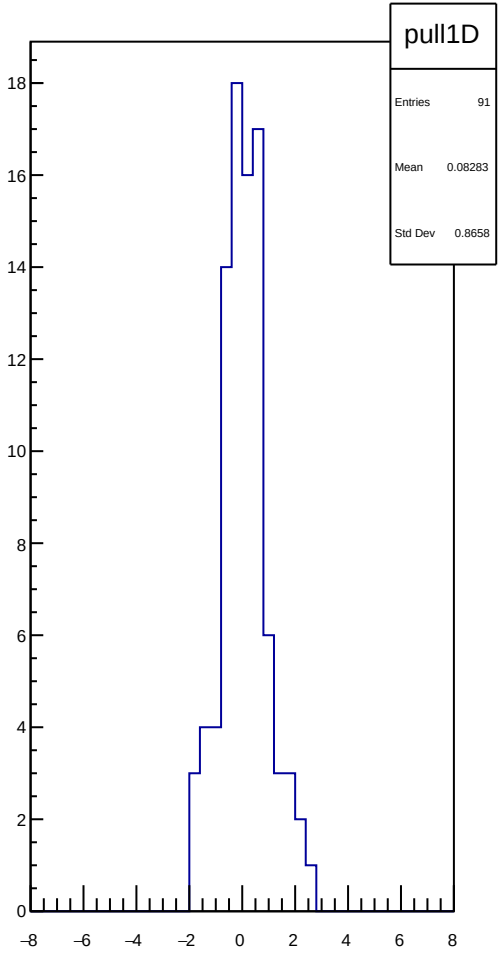

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.94 / 90
p0 −0.002657 ± 0.03419
pull
Entries 91
Mean 264
Std Dev 0
pull1D
Entries 91
Mean 0.02587
Std Dev 1.032

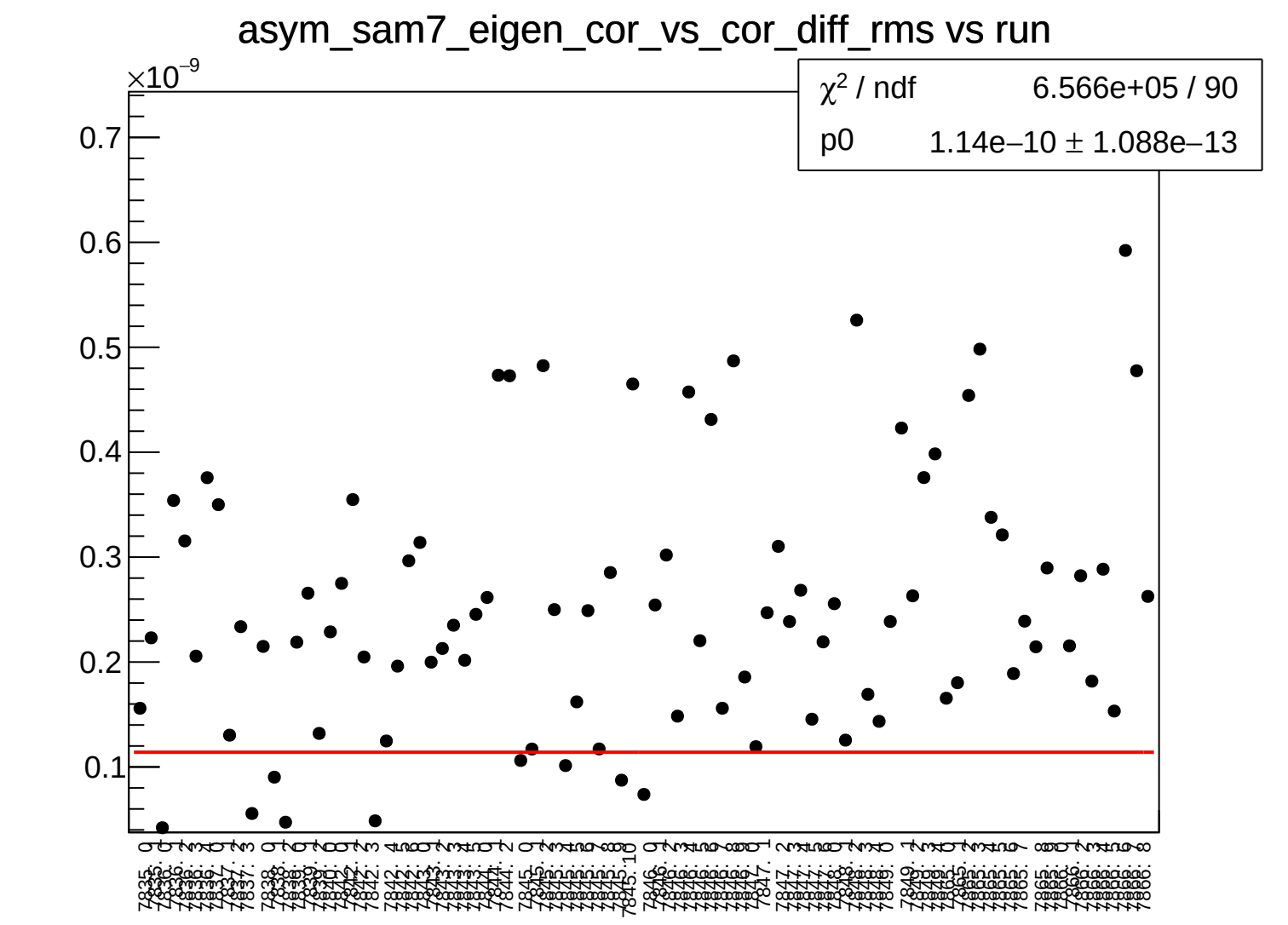

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.11e+05 / 90
p0 30.05 ± 0.02418
160
140
120
100
80
60
40
20

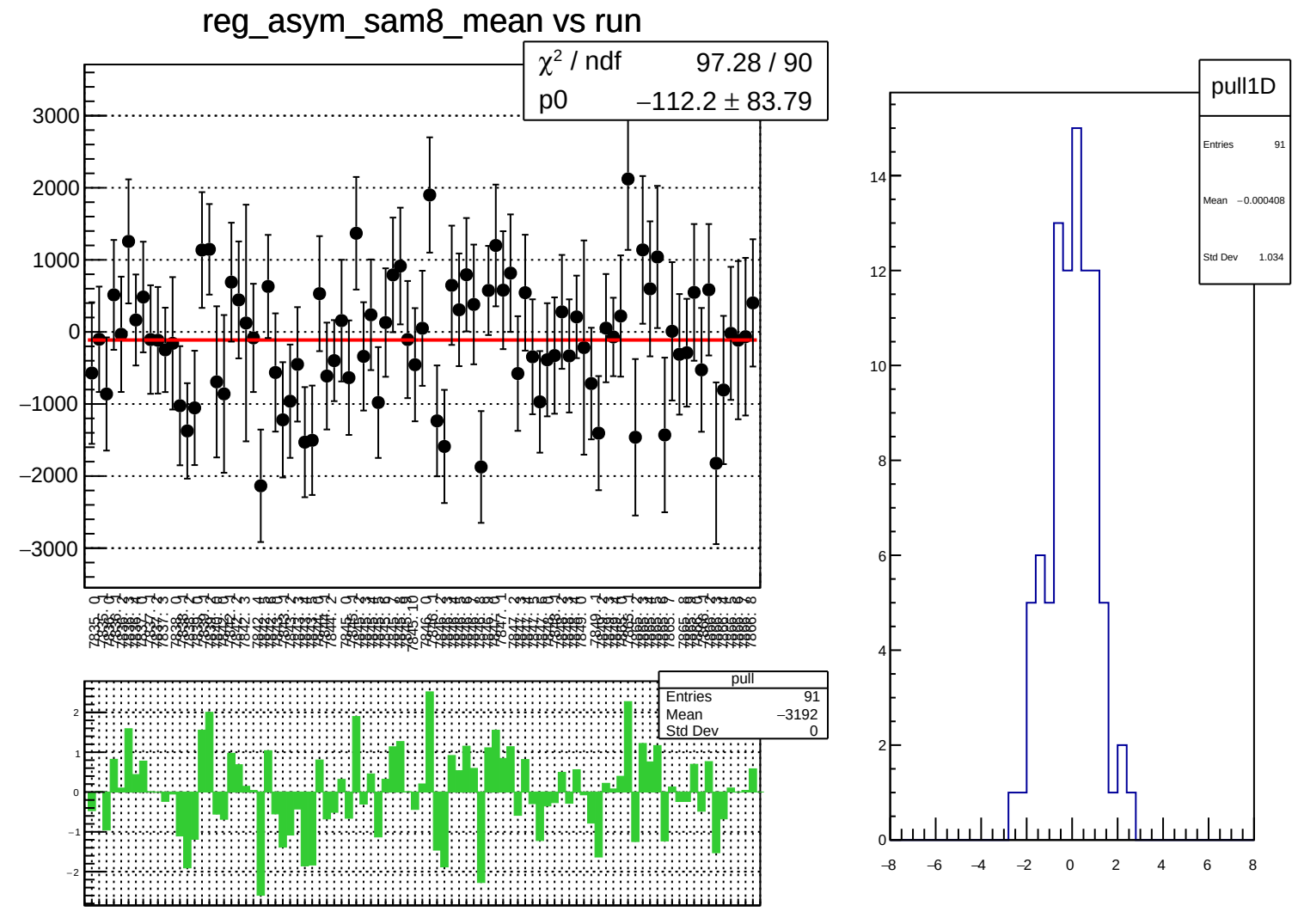

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.94 / 90
p0 −0.002657 ± 0.03419
pull
Entries 91
Mean 264
Std Dev 0
pull1D
Entries 91
Mean 0.02587
Std Dev 1.032

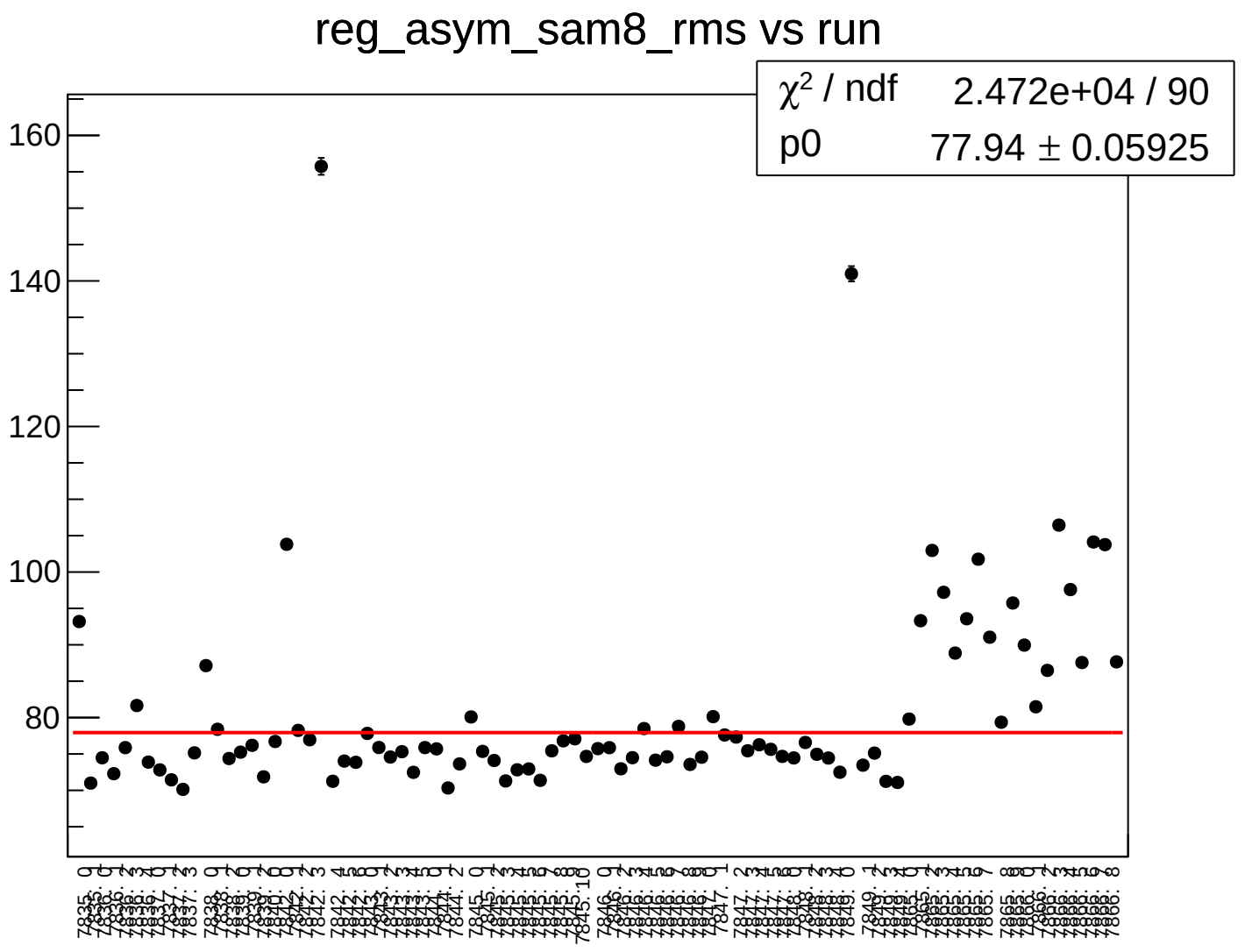

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.11e+05 / 90
p0 30.05 ± 0.02418
160
140
120
100
80
60
40
20

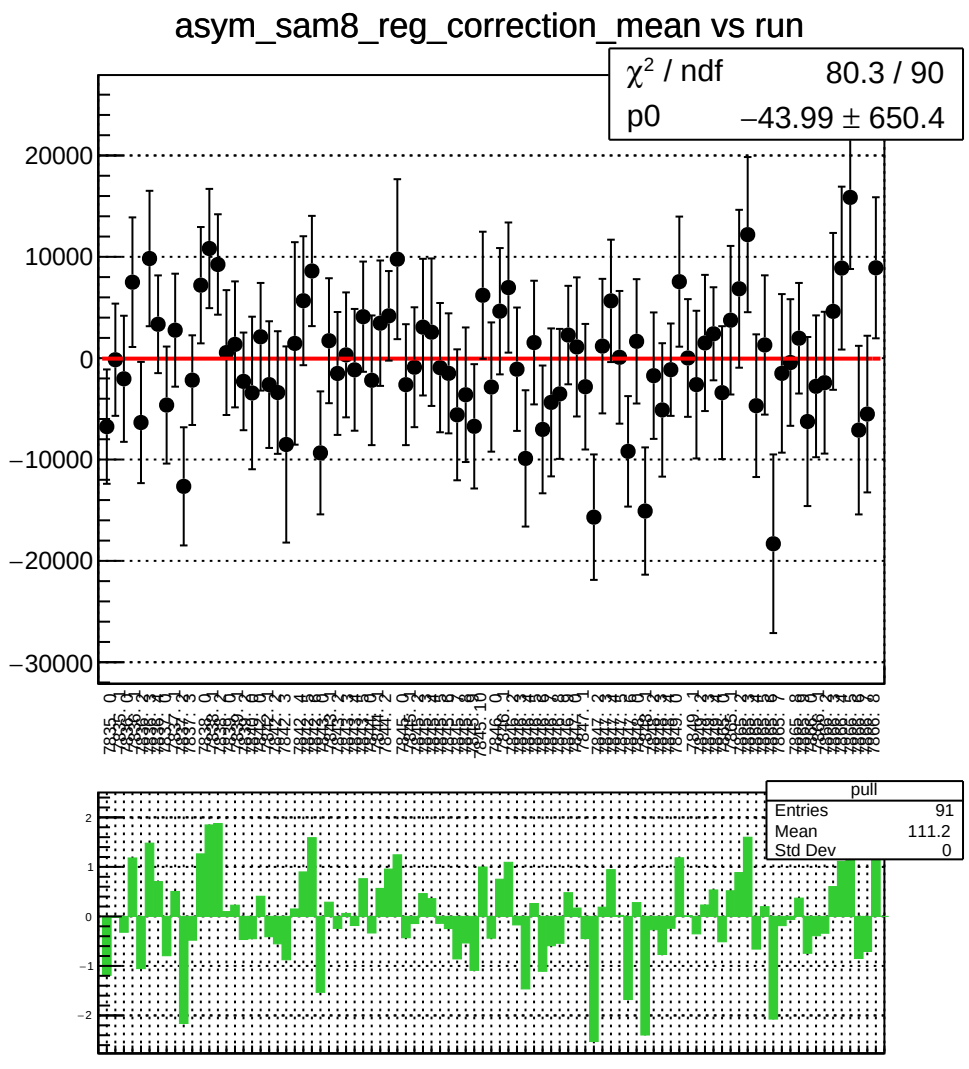

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.84 / 90
p0 −1.058e−13 ± 1.539e−13
pull
Entries 91
Mean 30.9
Std Dev 27.79

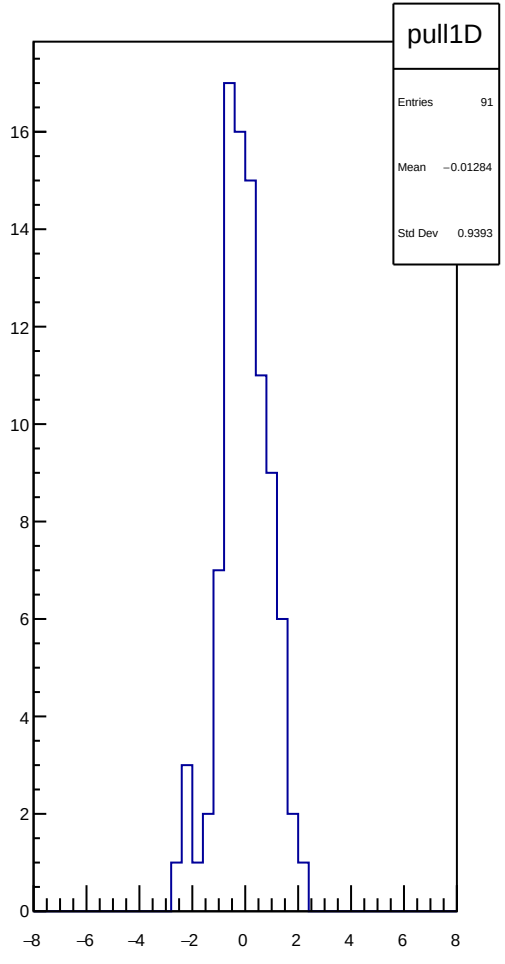

pull1D
Entries 91
Mean 0.08283
Std Dev 0.8658

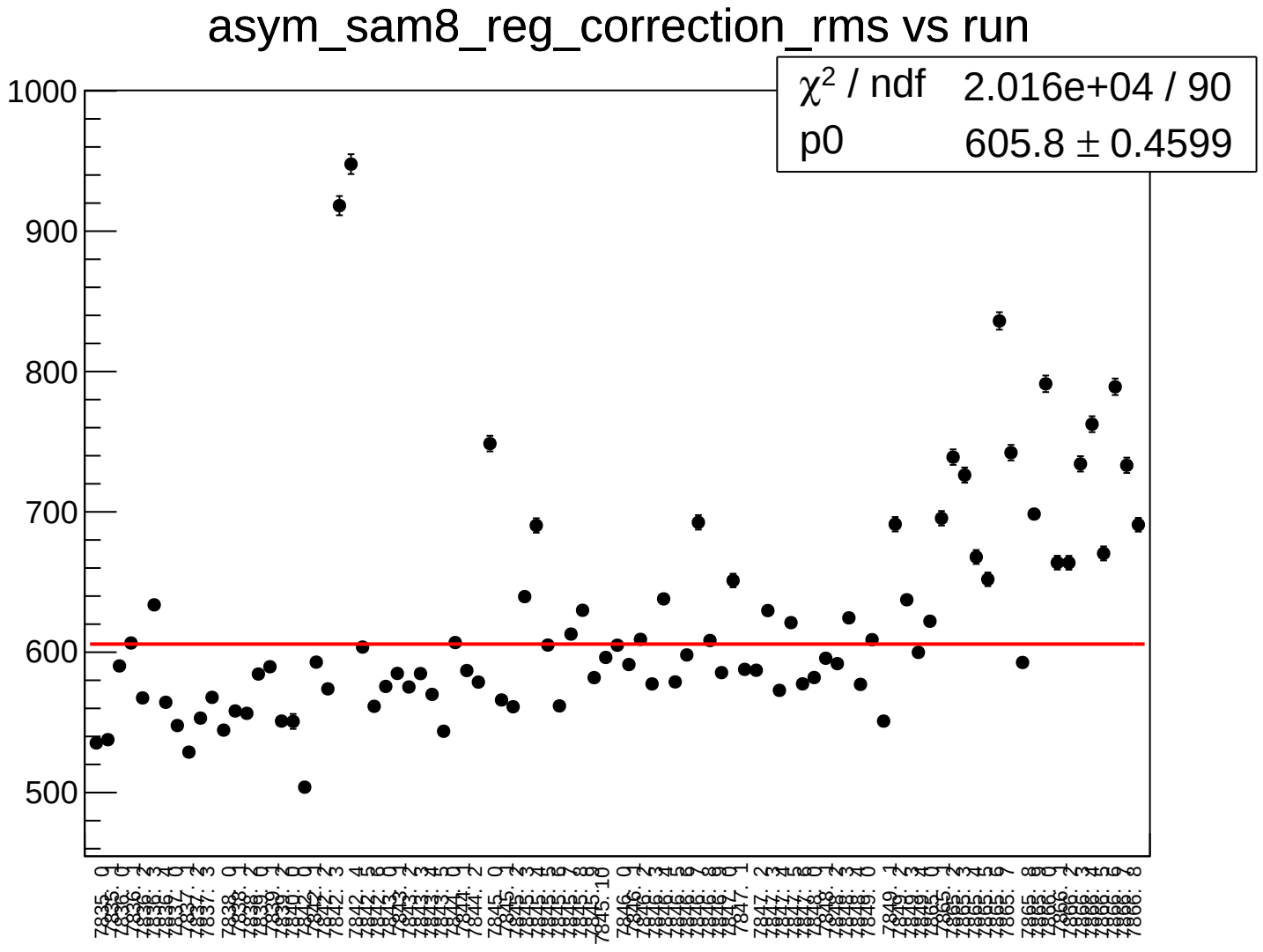

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.566e+05 / 90
p0 1.14e−10 ± 1.088e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

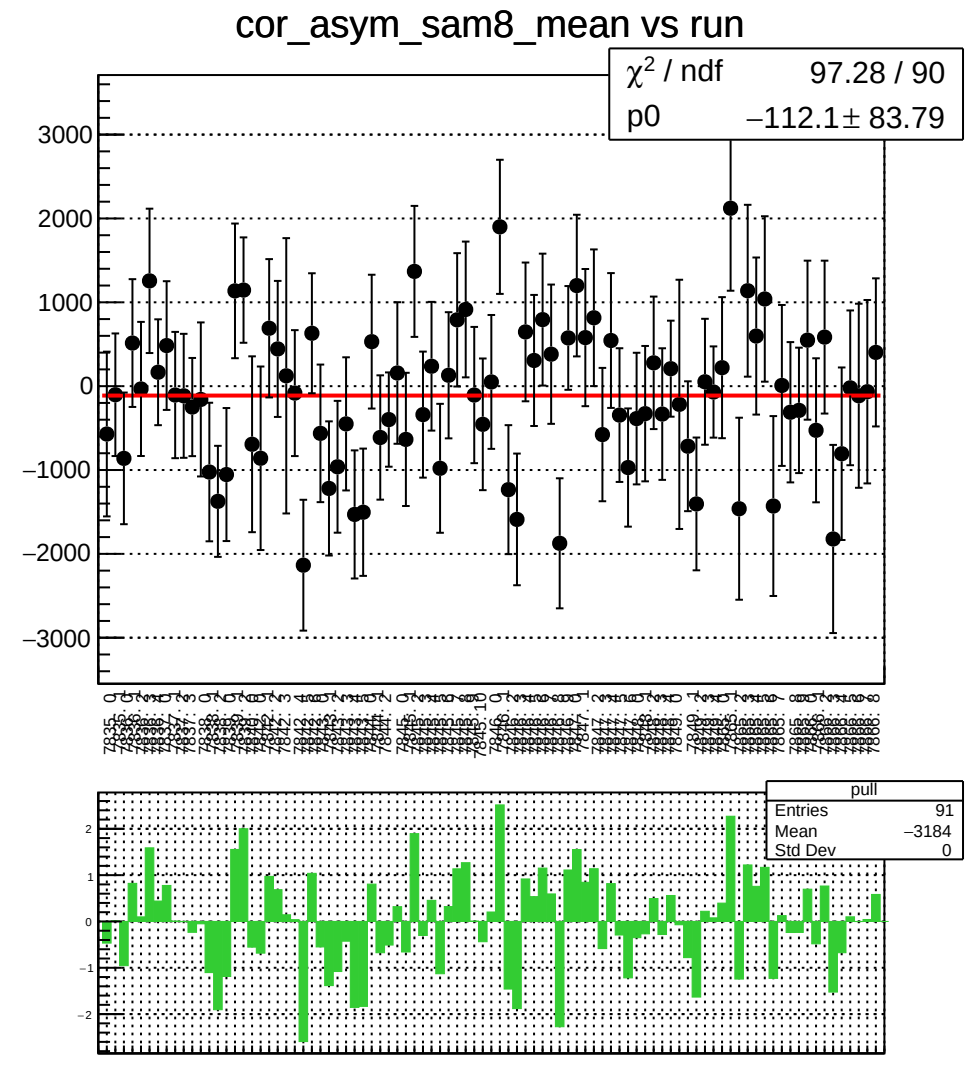

reg_asym_sam8_mean vs run
χ² / ndf 97.28 / 90
p0 −112.2 ± 83.79
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −3192
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.000408
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

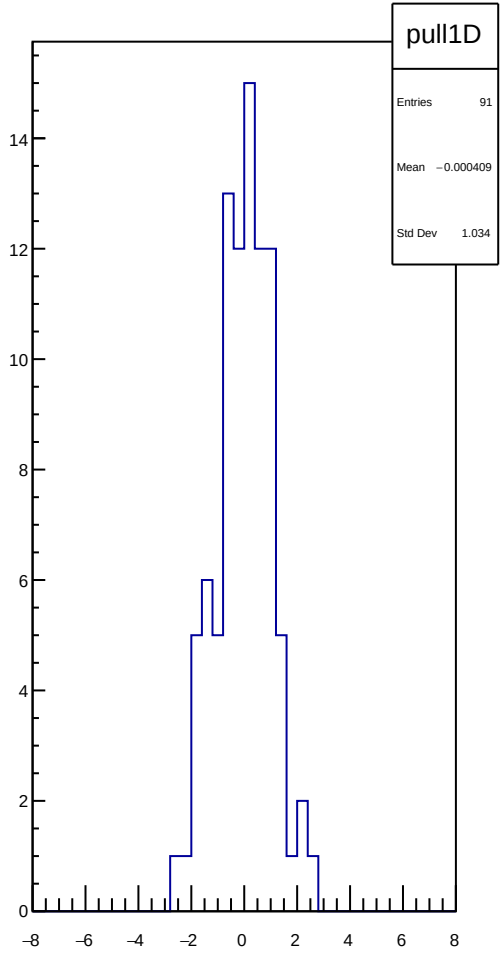

reg_asym_sam8_rms vs run
χ² / ndf 2.472e+04 / 90
p0 77.94 ± 0.05925
160
140
120
100
80

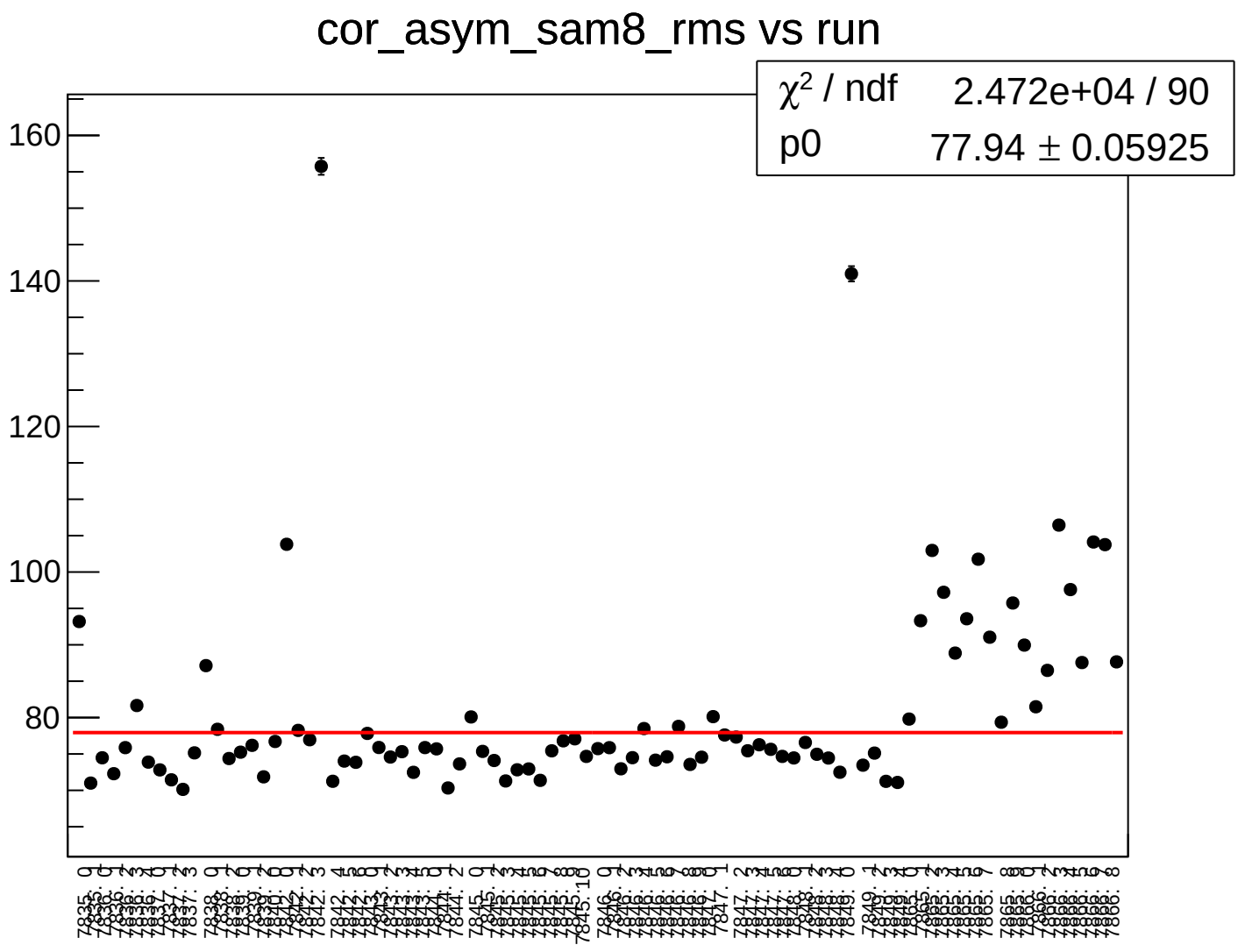

asym_sam8_reg_correction_mean vs run
χ² / ndf 80.3 / 90
p0 −43.99 ± 650.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 111.2
Std Dev 0
2
1
0
−1
−2

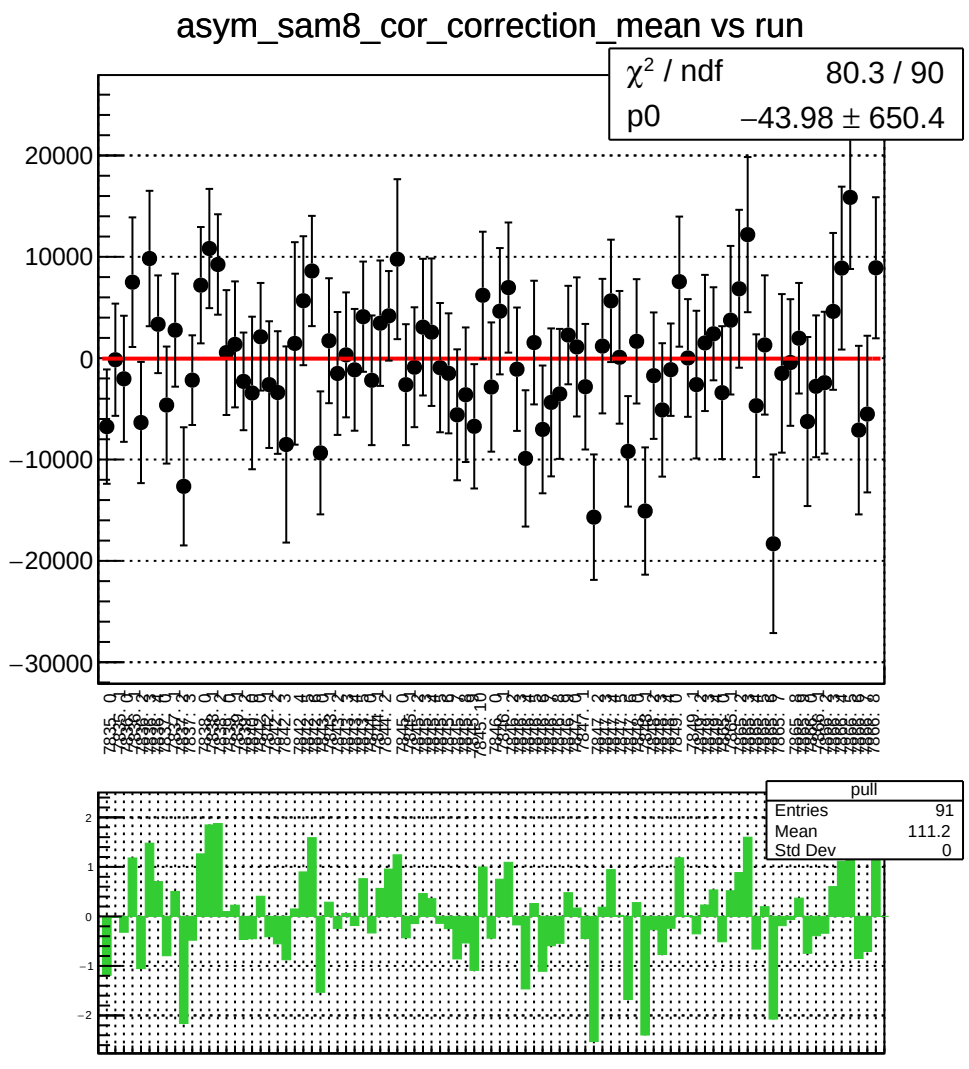

pull1D
Entries 91
Mean −0.01284
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

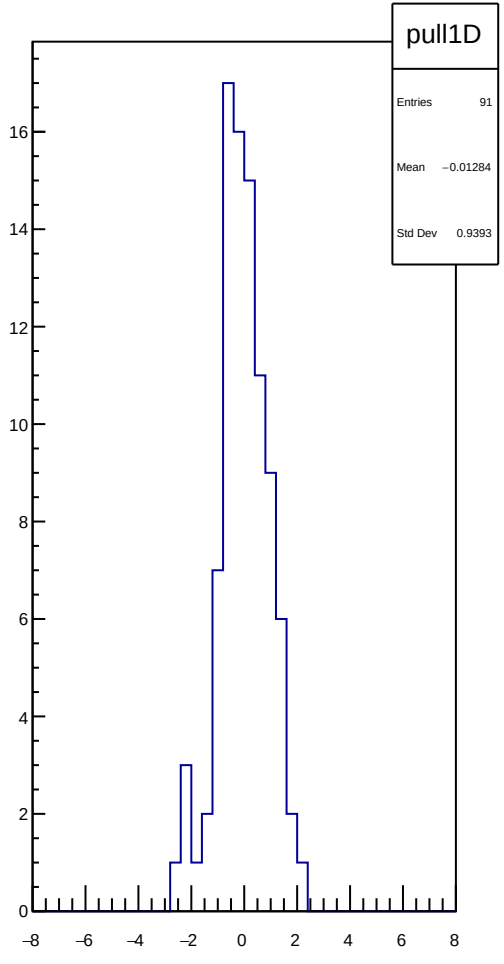

asym_sam8_reg_correction_rms vs run
χ² / ndf 2.016e+04 / 90
p0 605.8 ± 0.4599
1000
900
800
700
600
500

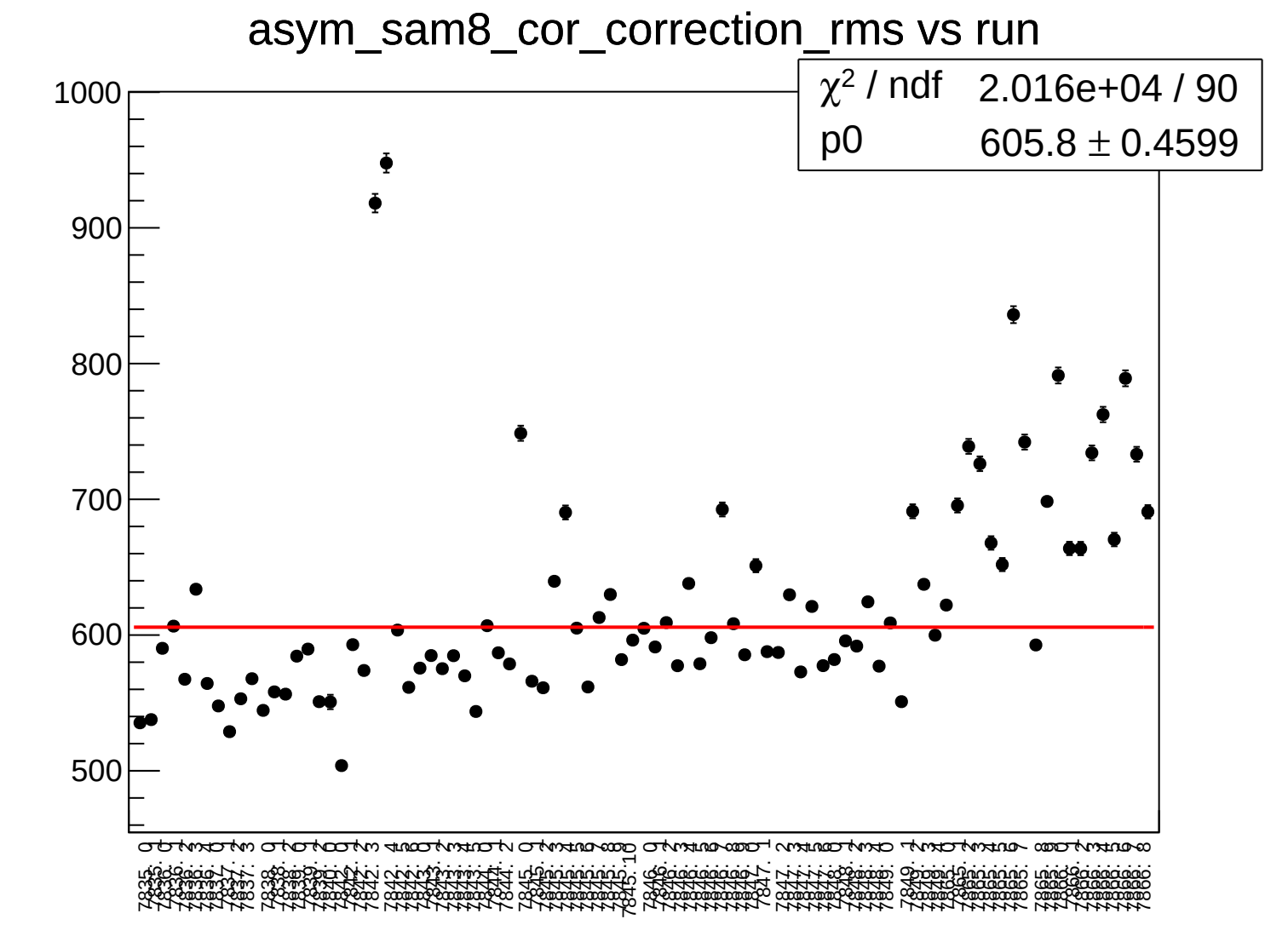

cor_asym_sam8_mean vs run
χ² / ndf 97.28 / 90
p0 −112.1± 83.79
pull
Entries 91
Mean −3184
Std Dev 0

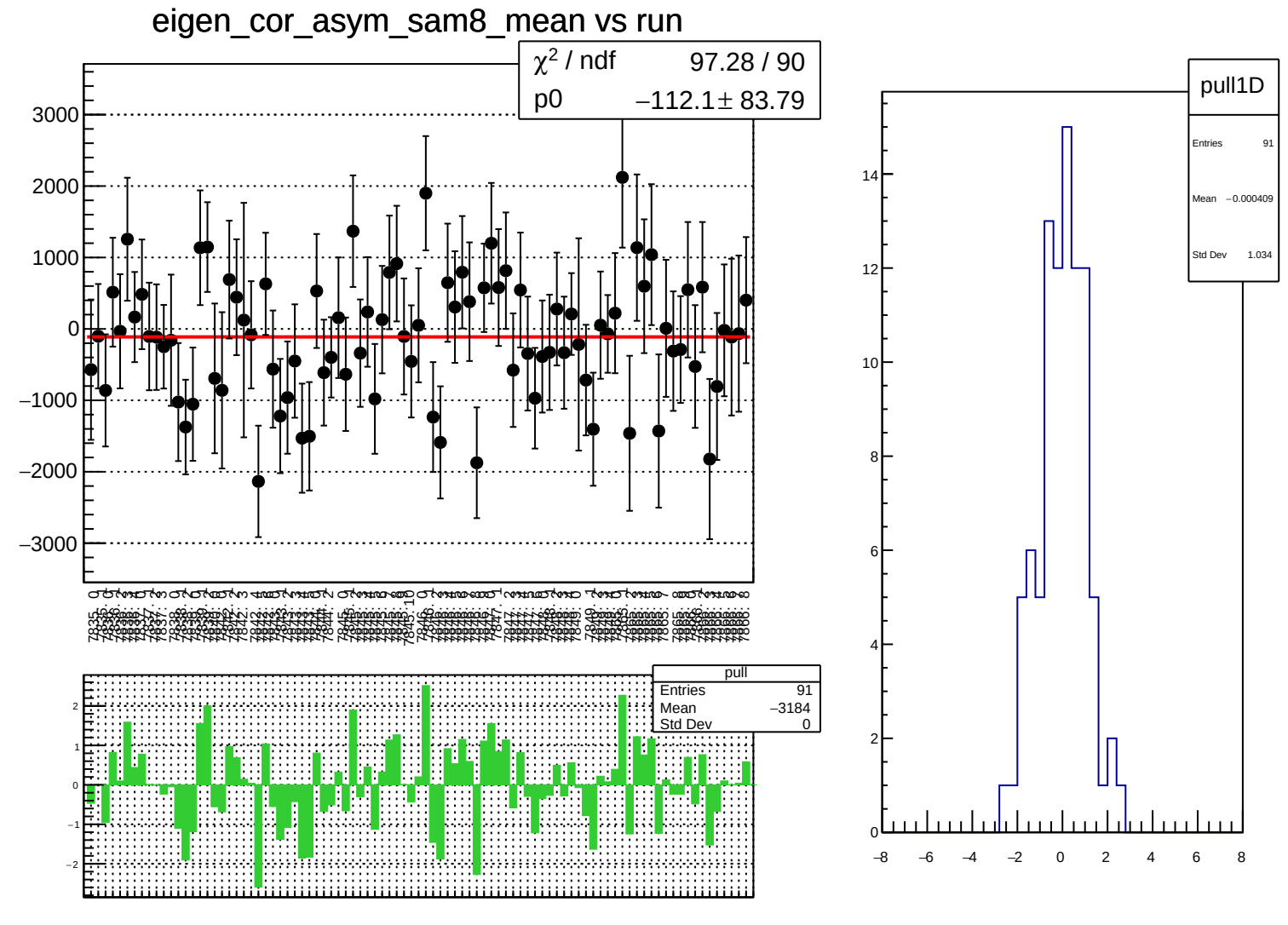

pull1D
Entries 91
Mean −0.000409
Std Dev 1.034

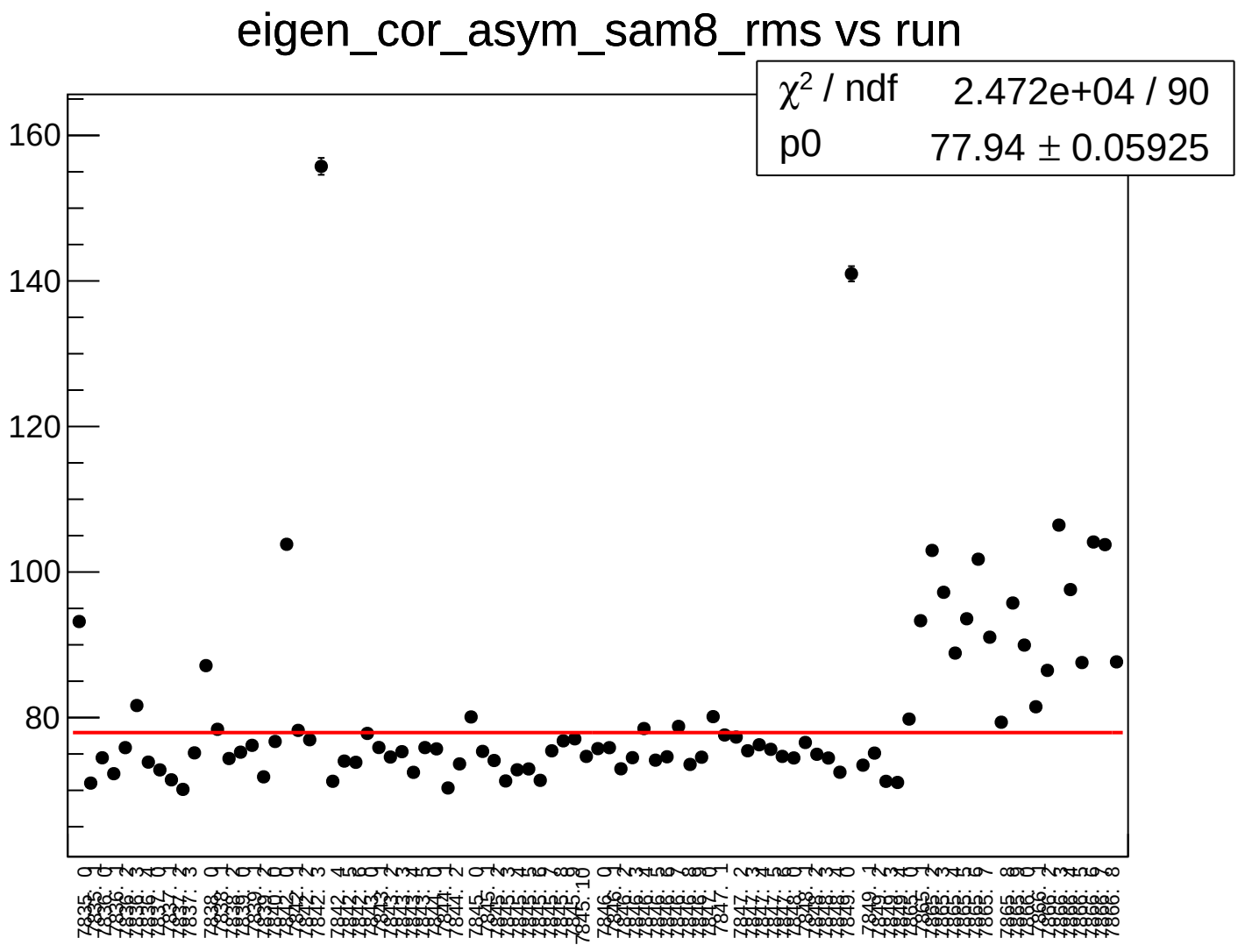

cor_asym_sam8_rms vs run
χ² / ndf 2.472e+04 / 90
p0 77.94 ± 0.05925
160
140
120
100
80

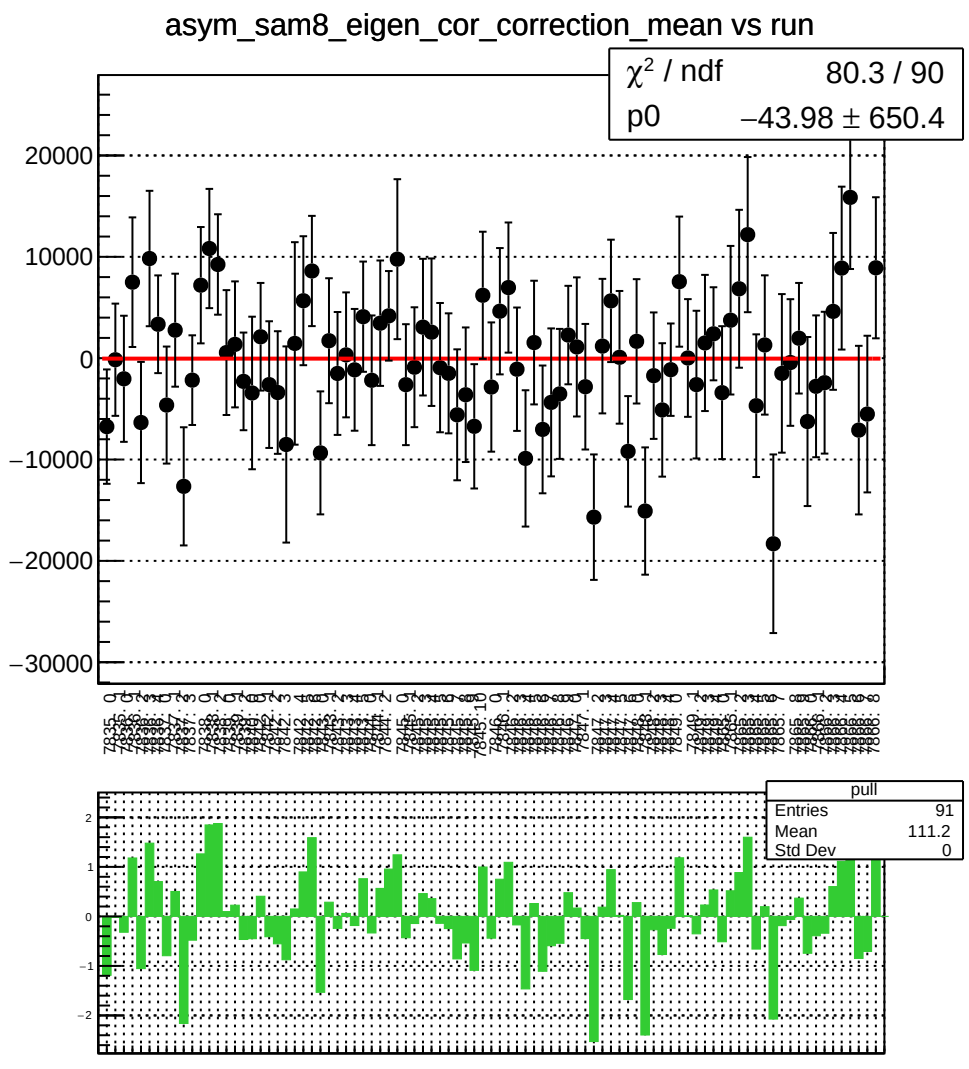

asym_sam8_cor_correction_mean vs run
χ² / ndf 80.3 / 90
p0 −43.98 ± 650.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 111.2
Std Dev 0
2
1
0
−1
−2

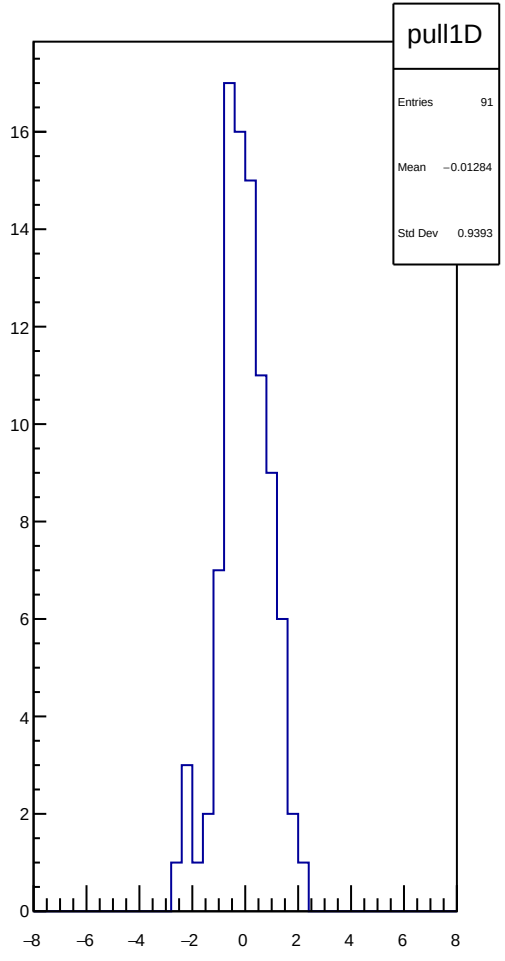

pull1D
Entries 91
Mean −0.01284
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

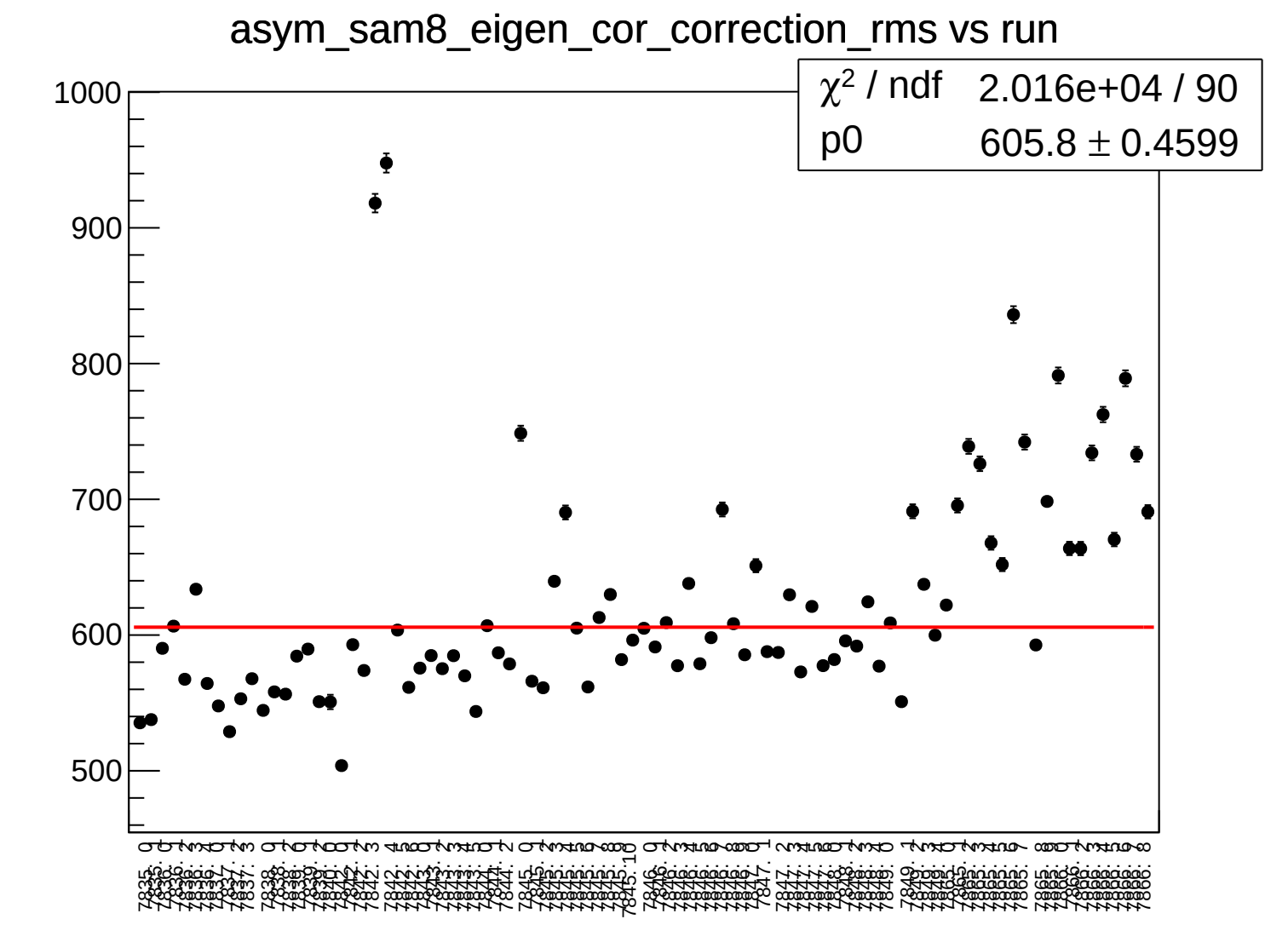

asym_sam8_cor_correction_rms vs run
χ² / ndf 2.016e+04 / 90
p0 605.8 ± 0.4599
1000
900
800
700
600
500

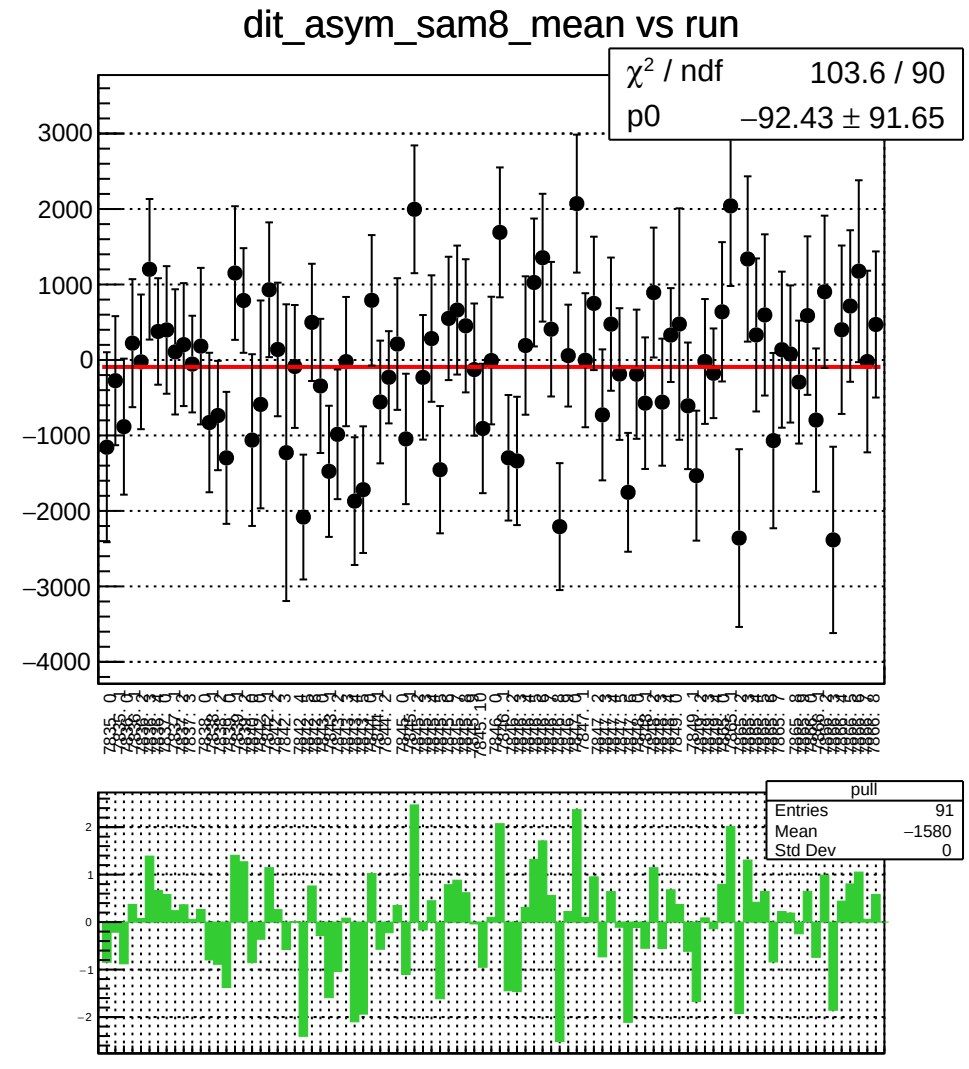

eigen_cor_asym_sam8_mean vs run
χ² / ndf 97.28 / 90
p0 −112.1± 83.79
pull
Entries 91
Mean −3184
Std Dev 0
pull1D
Entries 91
Mean −0.000409
Std Dev 1.034

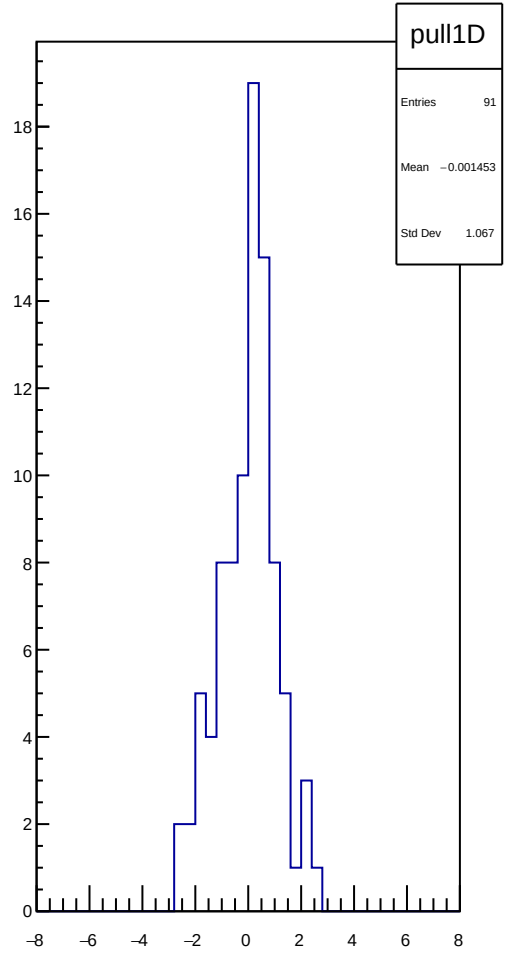

eigen_cor_asym_sam8_rms vs run
χ² / ndf 2.472e+04 / 90
p0 77.94 ± 0.05925
160
140
120
100
80

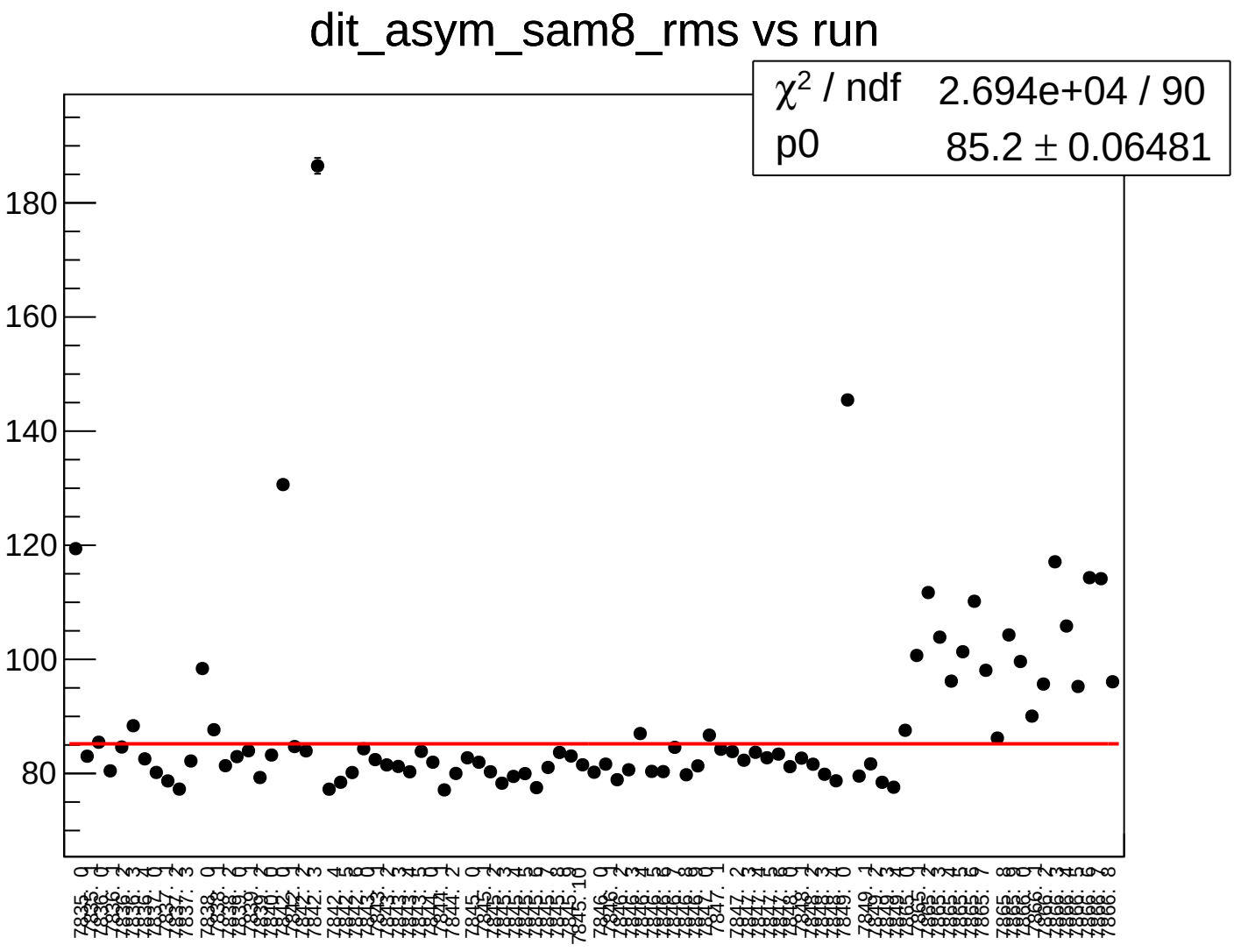

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 80.3 / 90
p0 −43.98 ± 650.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 111.2
Std Dev 0
2
1
0
−1
−2

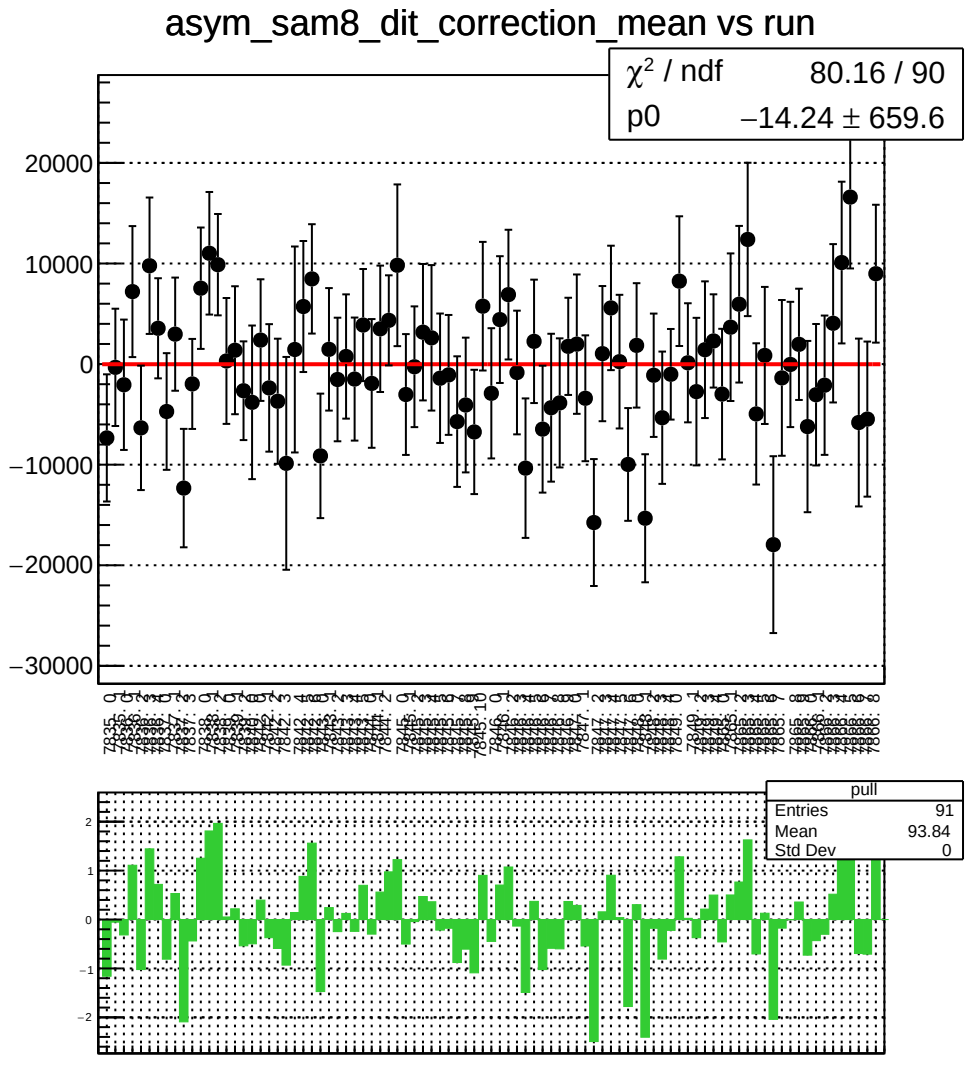

pull1D
Entries 91
Mean −0.01284
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

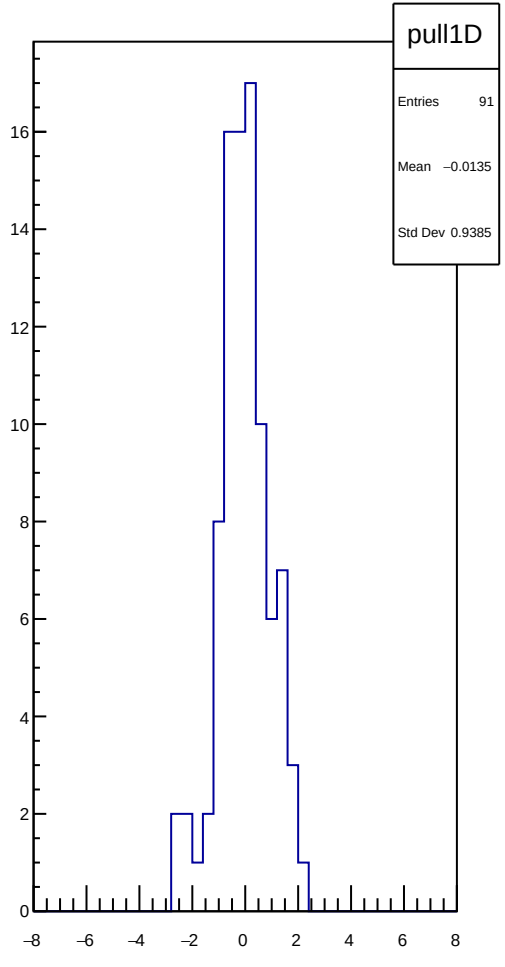

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2.016e+04 / 90
p0 605.8 ± 0.4599
1000
900
800
700
600
500

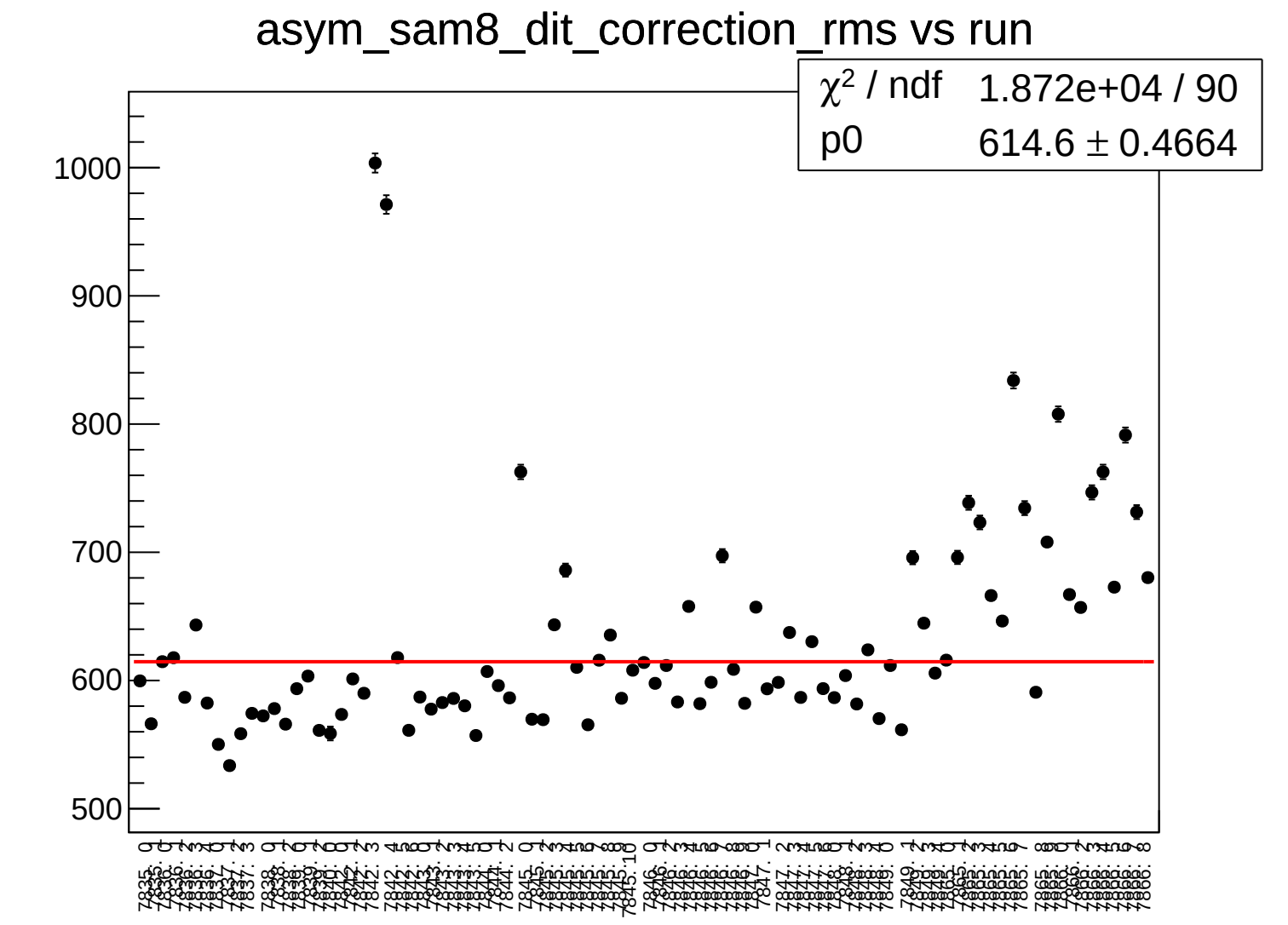

dit_asym_sam8_mean vs run
χ² / ndf 103.6 / 90
p0 −92.43 ± 91.65
pull
Entries 91
Mean −1580
Std Dev 0

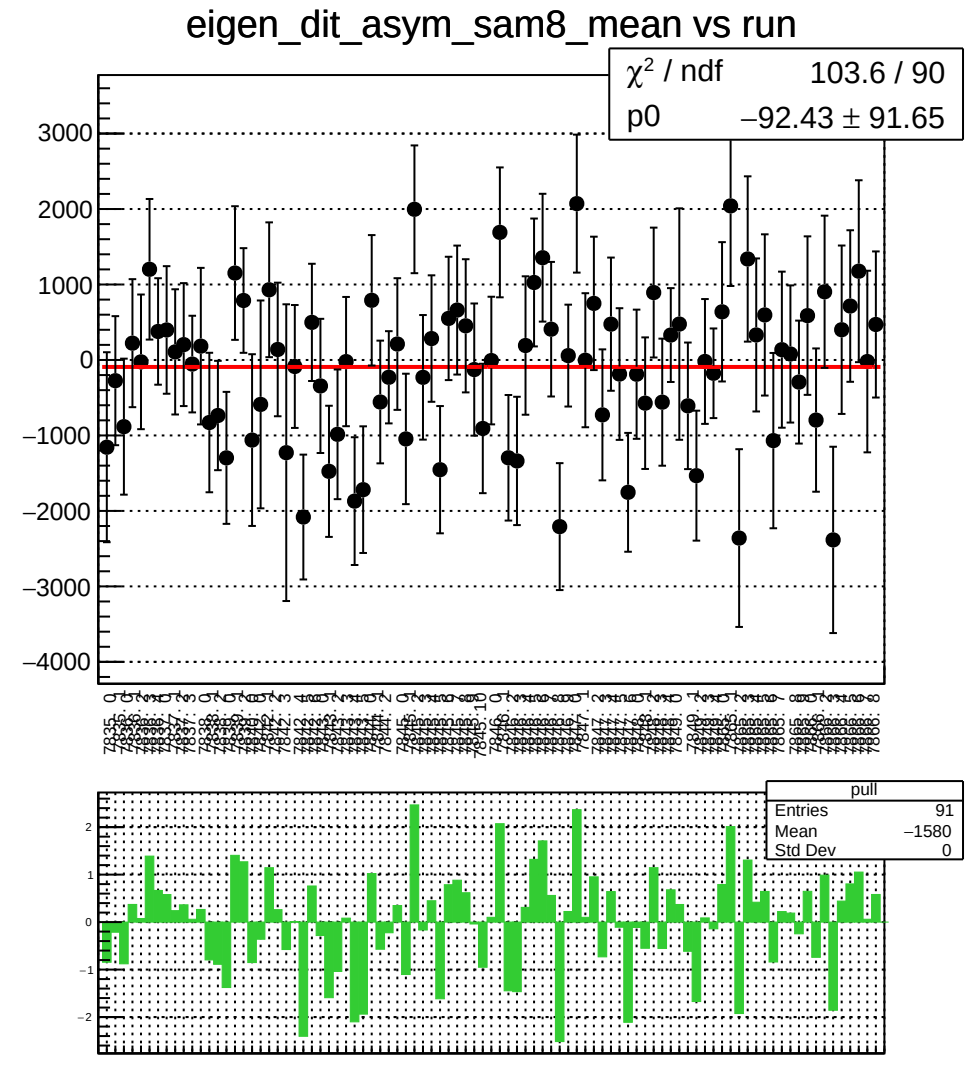

pull1D
Entries 91
Mean −0.001453
Std Dev 1.067

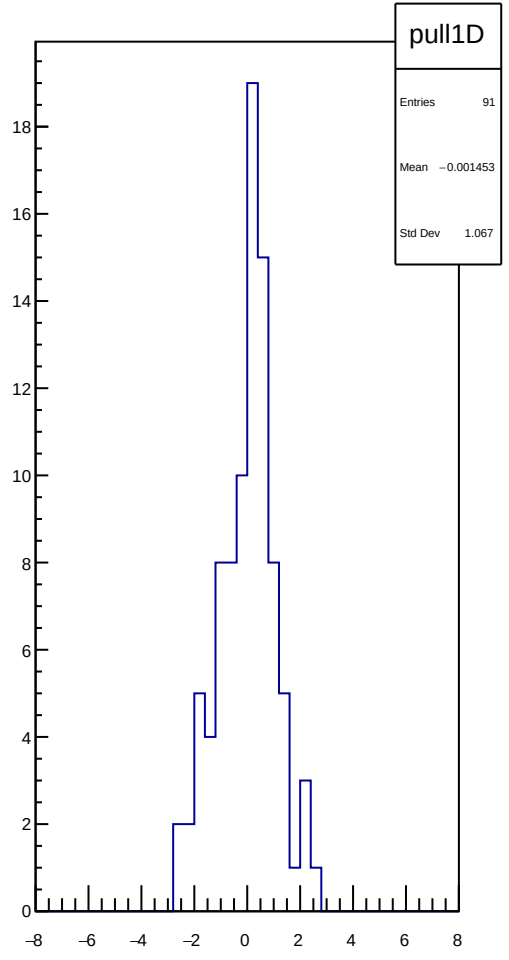

dit_asym_sam8_rms vs run
χ² / ndf 2.694e+04 / 90
p0 85.2 ± 0.06481
180
160
140
120
100
80

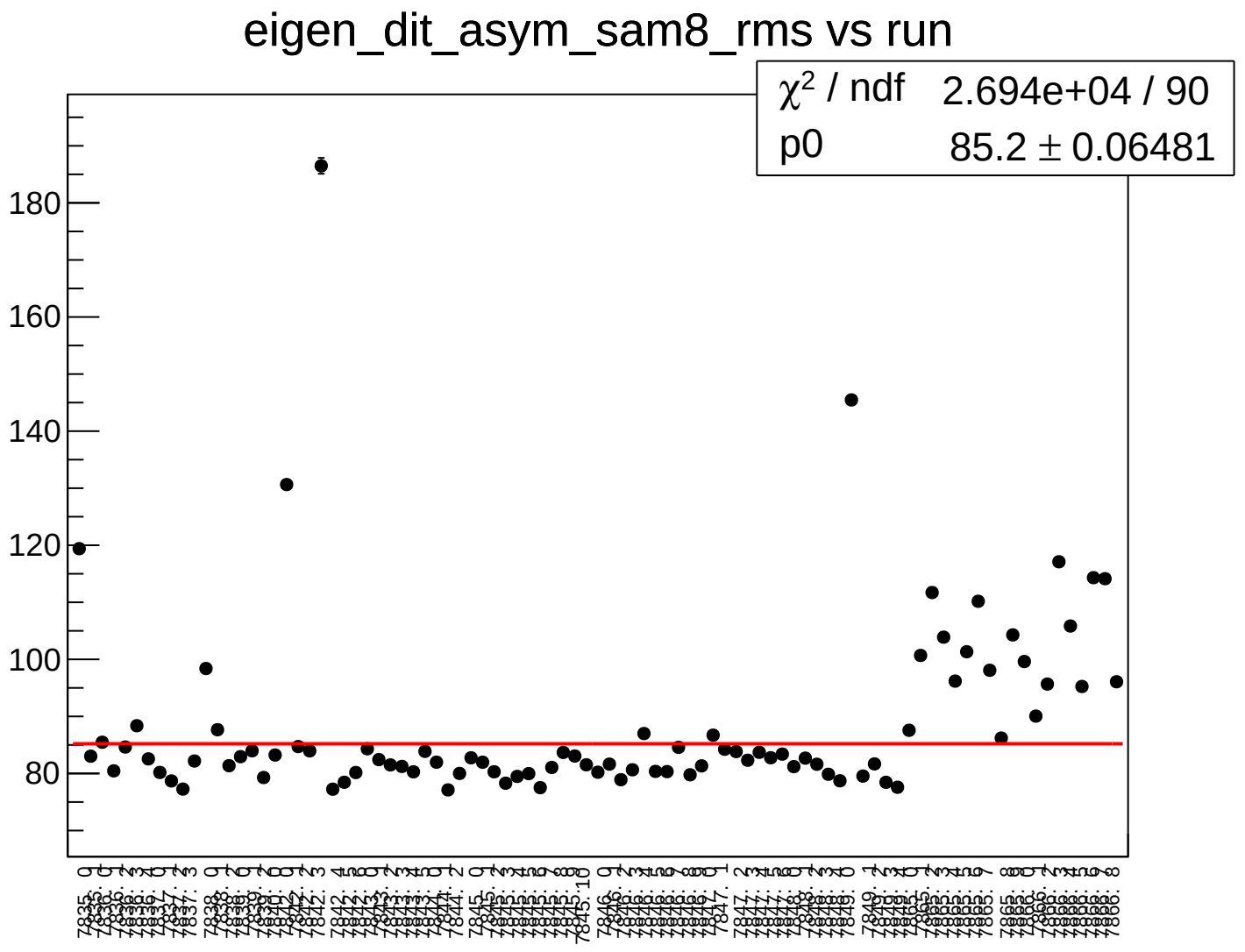

asym_sam8_dit_correction_mean vs run
χ² / ndf 80.16 / 90
p0 −14.24 ± 659.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 93.84
Std Dev 0
2
1
0
−1
−2

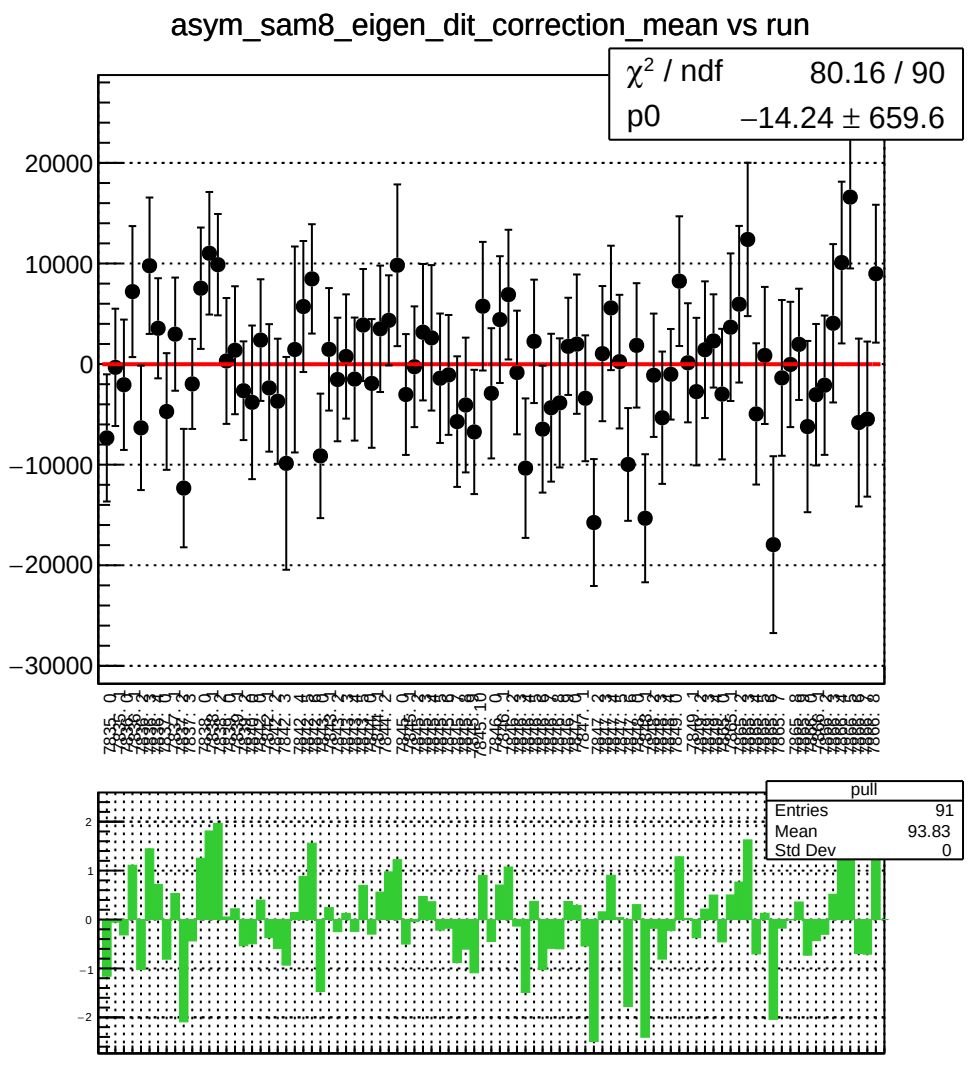

pull1D
Entries 91
Mean −0.0135
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

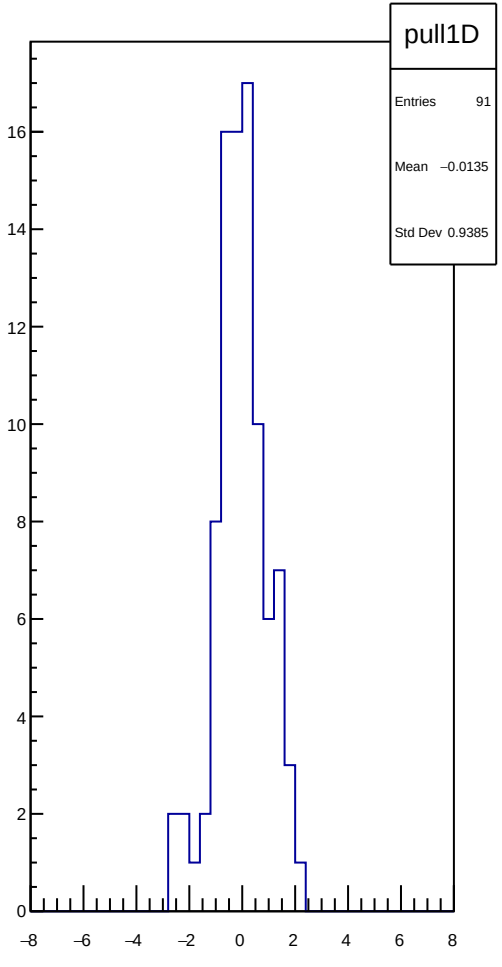

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.872e+04 / 90
p0 614.6 ± 0.4664
1000
900
800
700
600
500

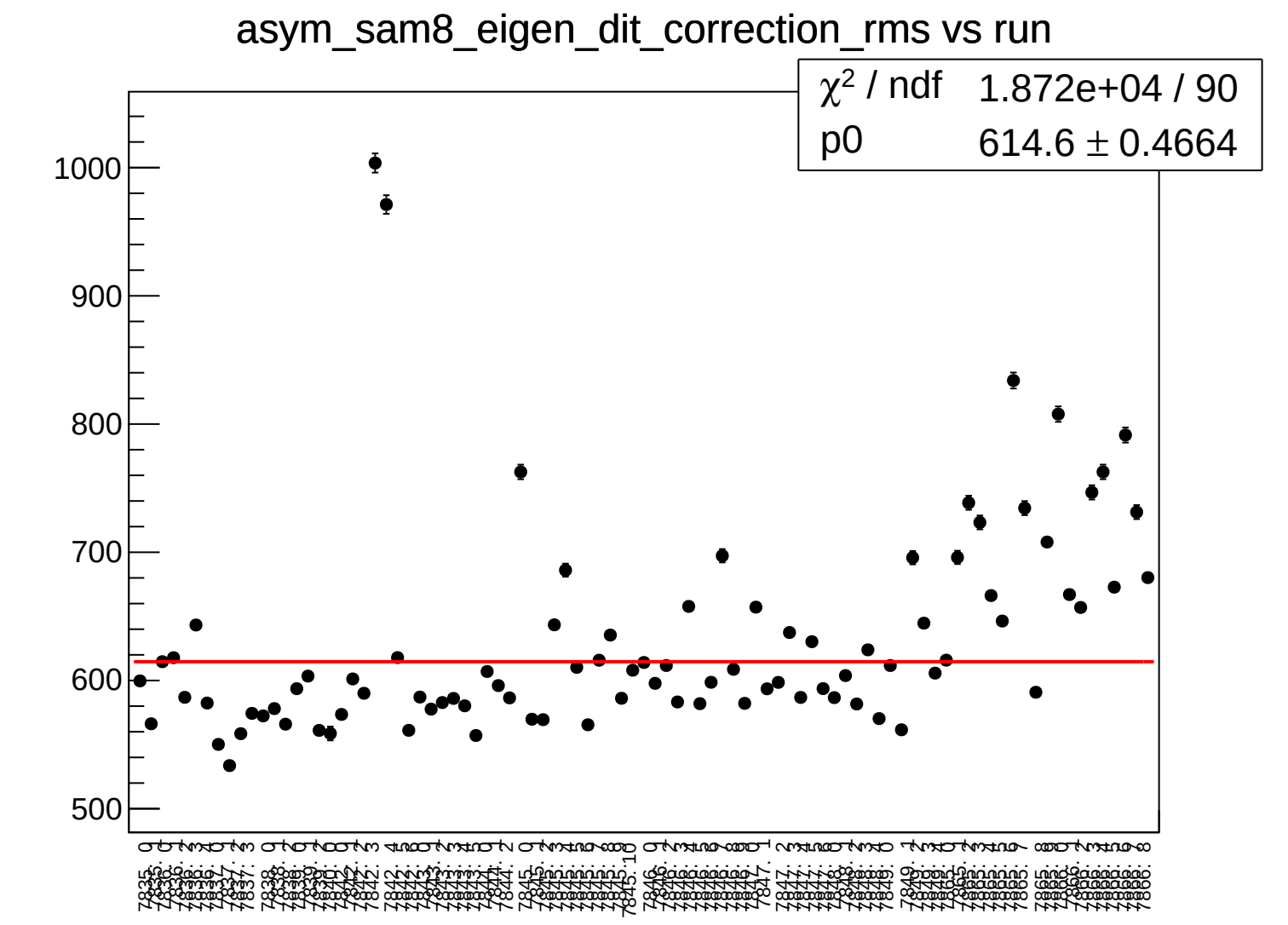

eigen_dit_asym_sam8_mean vs run
χ² / ndf 103.6 / 90
p0 −92.43 ± 91.65
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean −1580
Std Dev 0
2
1
0
−1
−2

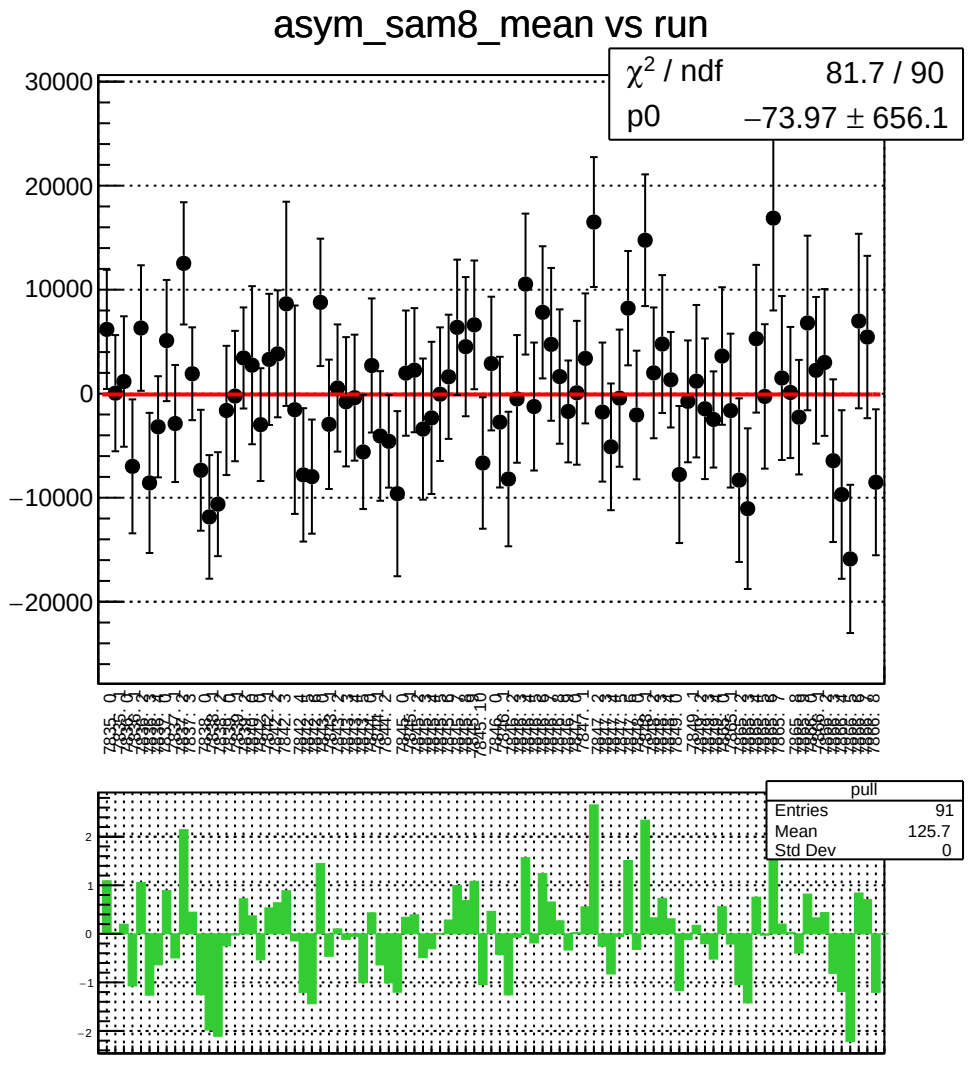

pull1D
Entries 91
Mean −0.001453
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

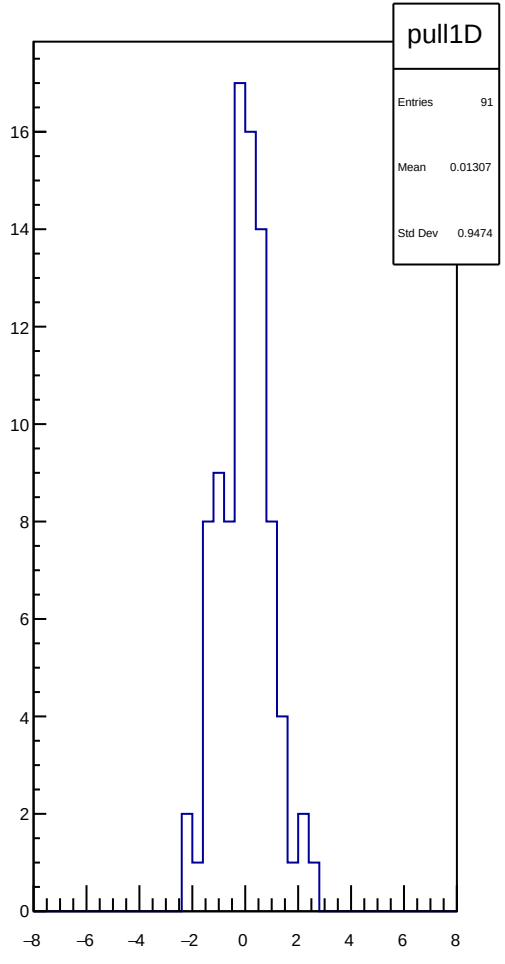

eigen_dit_asym_sam8_rms vs run
χ² / ndf 2.694e+04 / 90
p0 85.2 ± 0.06481
180
160
140
120
100
80

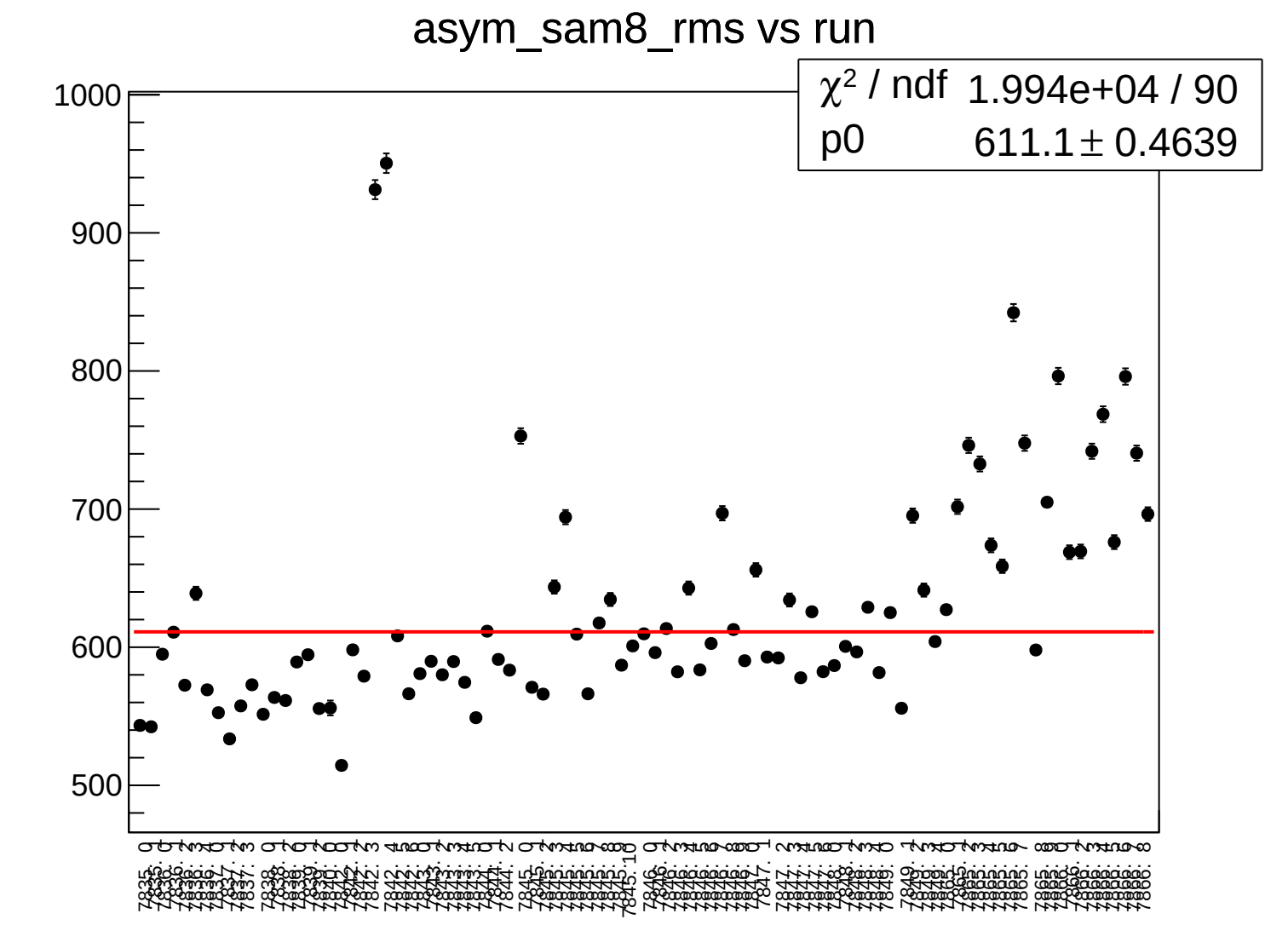

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 80.16 / 90
p0 −14.24 ± 659.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 93.83
Std Dev 0
2
1
0
−1
−2

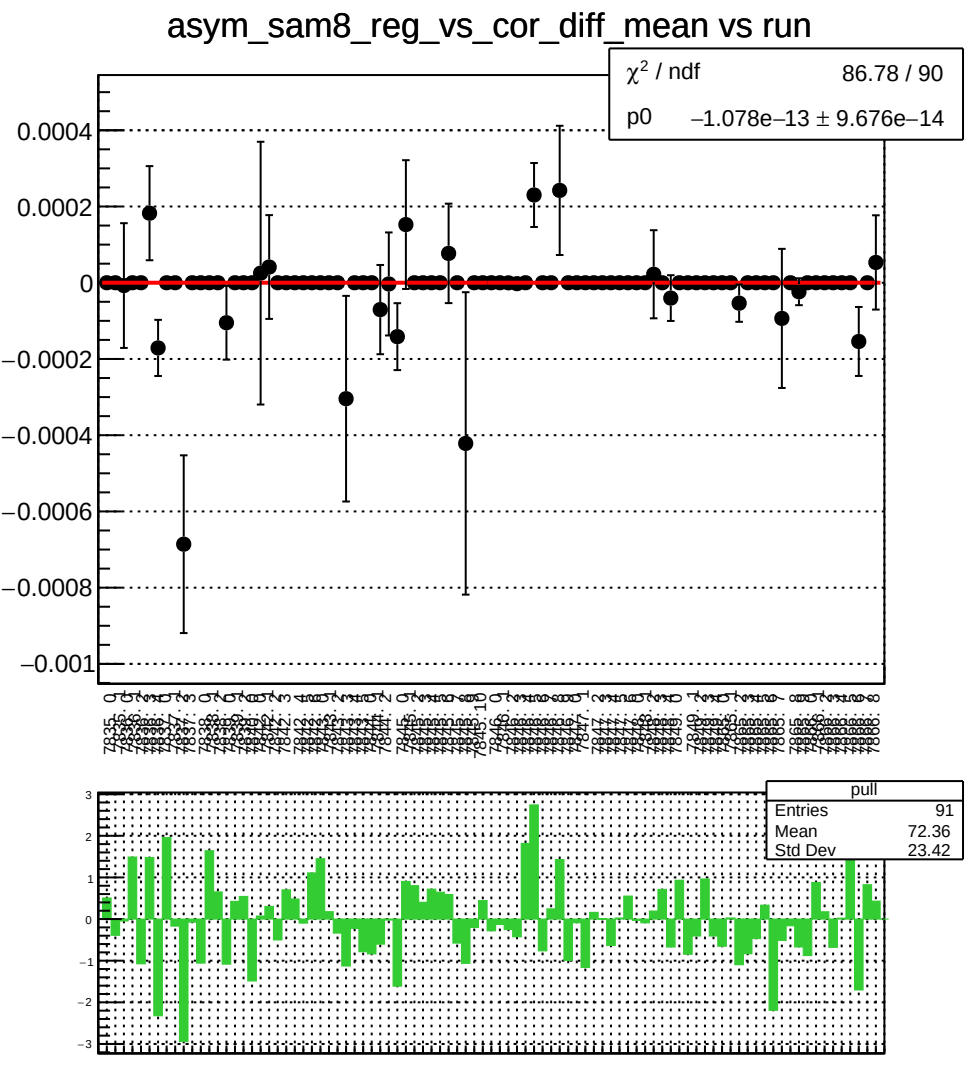

pull1D
Entries 91
Mean −0.0135
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

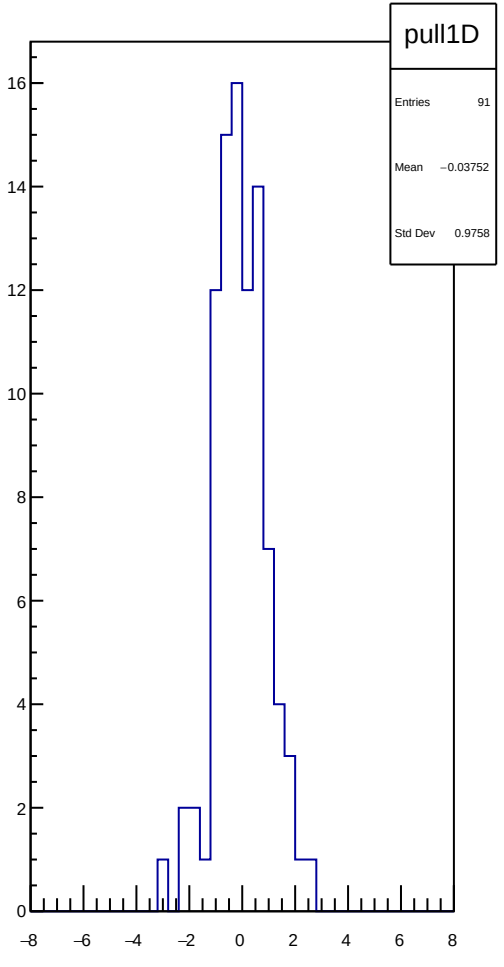

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.872e+04 / 90
p0 614.6 ± 0.4664
1000
900
800
700
600
500

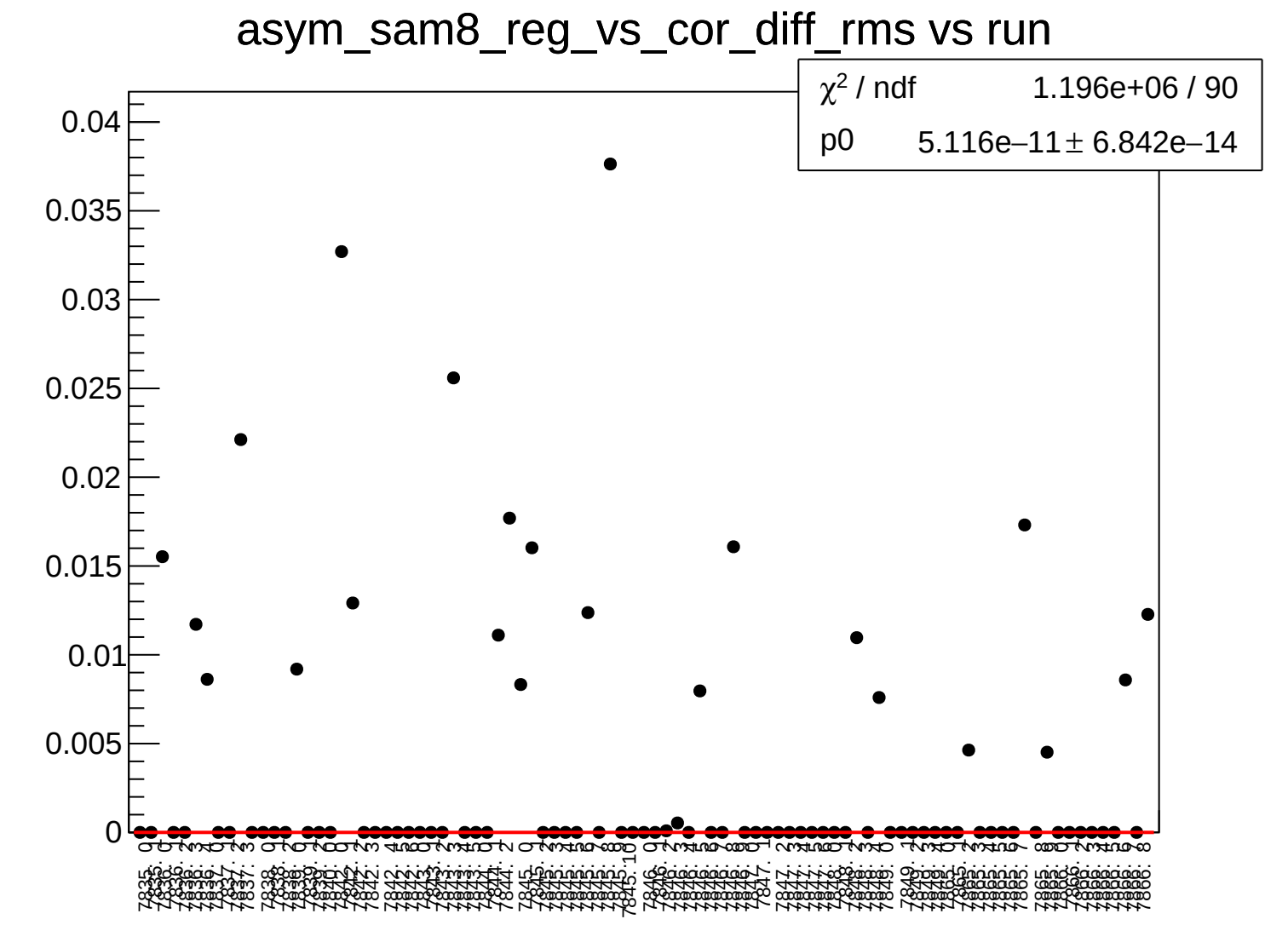

asym_sam8_mean vs run
χ² / ndf 81.7 / 90
p0 −73.97 ± 656.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 125.7
Std Dev 0
2
1
0
−1
−2

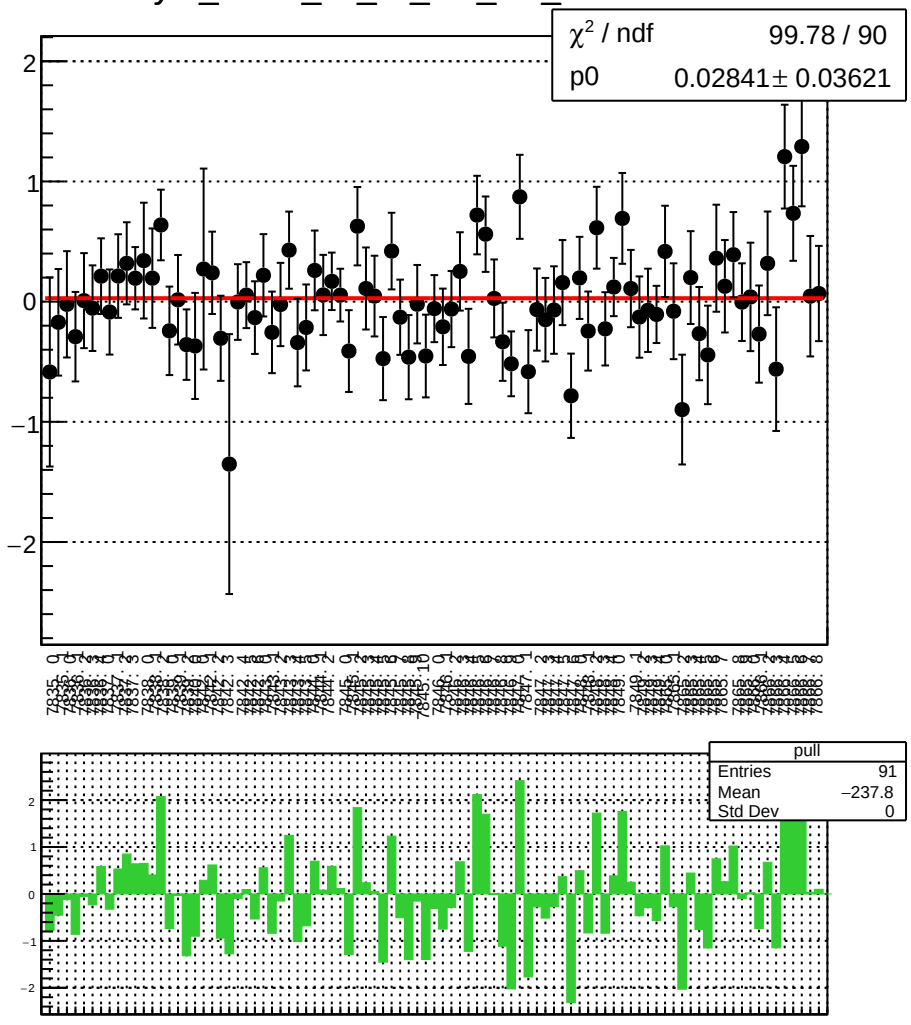

pull1D
Entries 91
Mean 0.01307
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

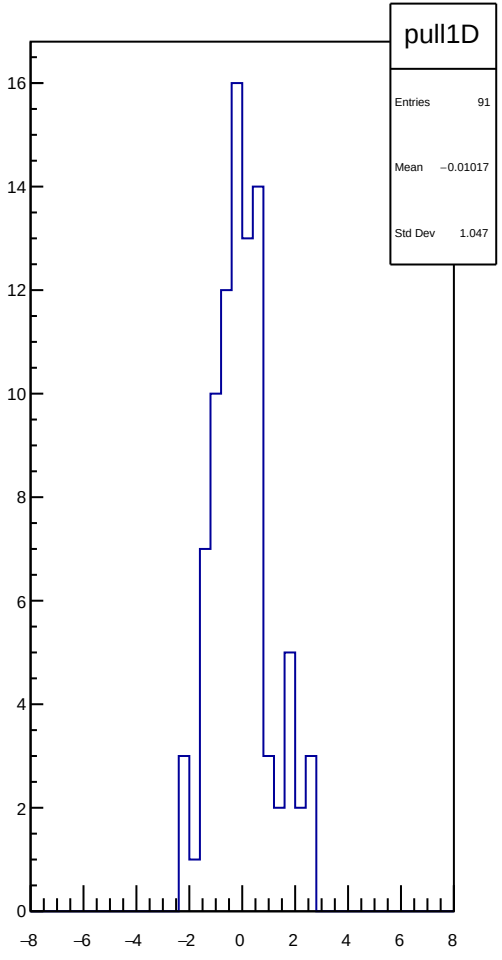

asym_sam8_rms vs run
χ² / ndf 1.994e+04 / 90
p0 611.1 ± 0.4639
1000
900
800
700
600
500

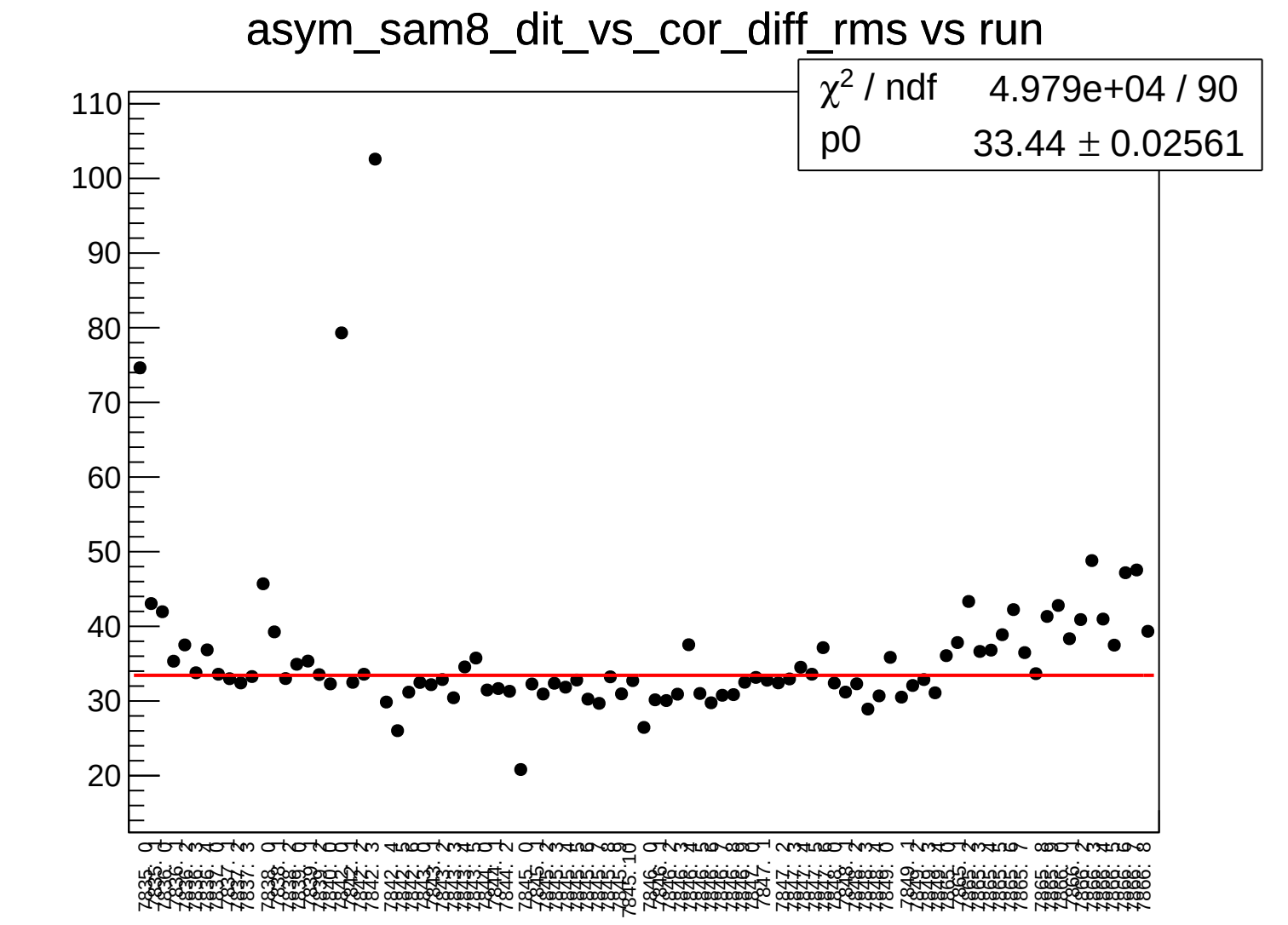

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 86.78 / 90
p0 −1.078e−13 ± 9.676e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 91
Mean 72.36
Std Dev 23.42
3
2
1
0
−1
−2
−3

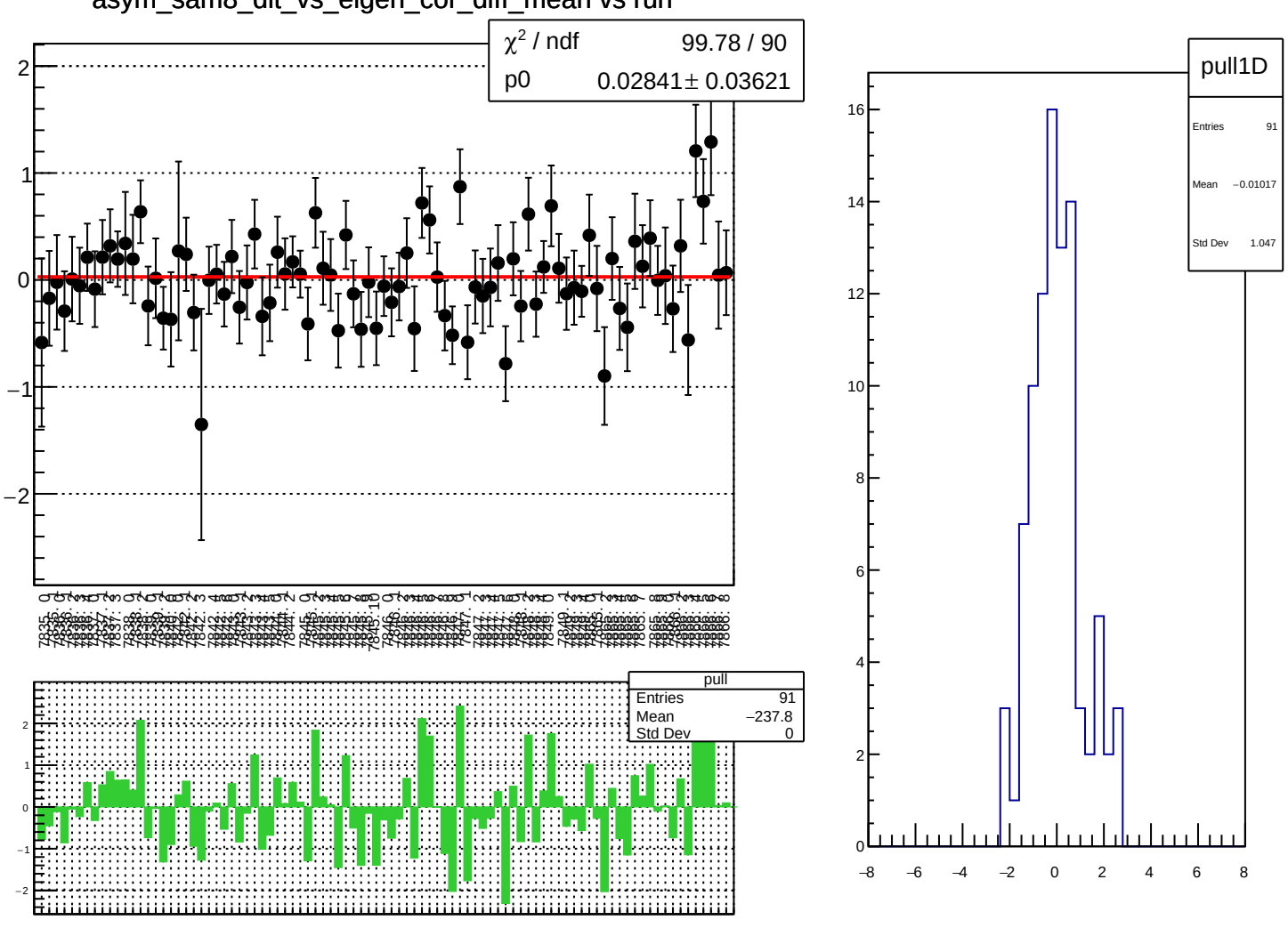

pull1D
Entries 91
Mean −0.03752
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

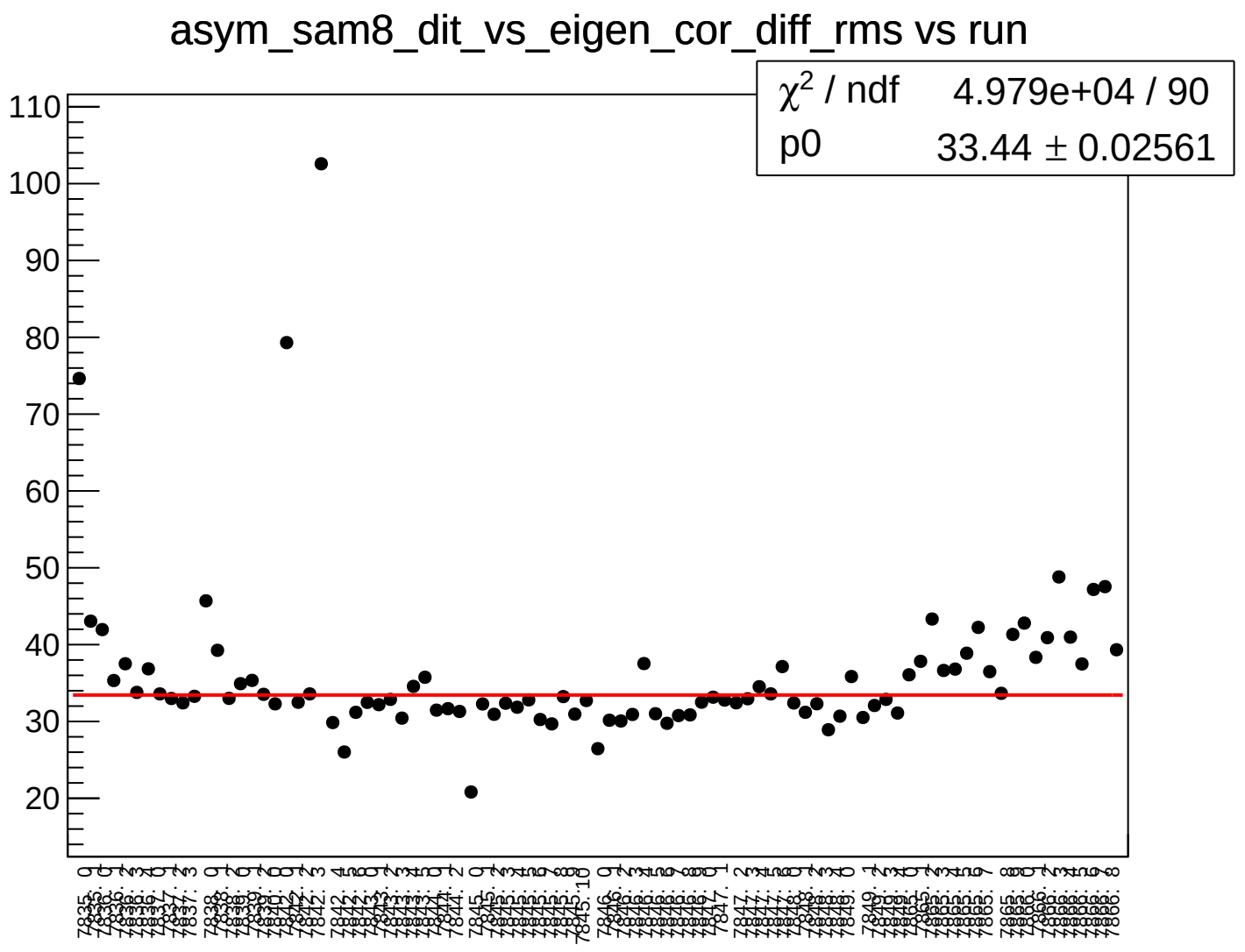

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.196e+06 / 90
p0 5.116e−11 ± 6.842e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

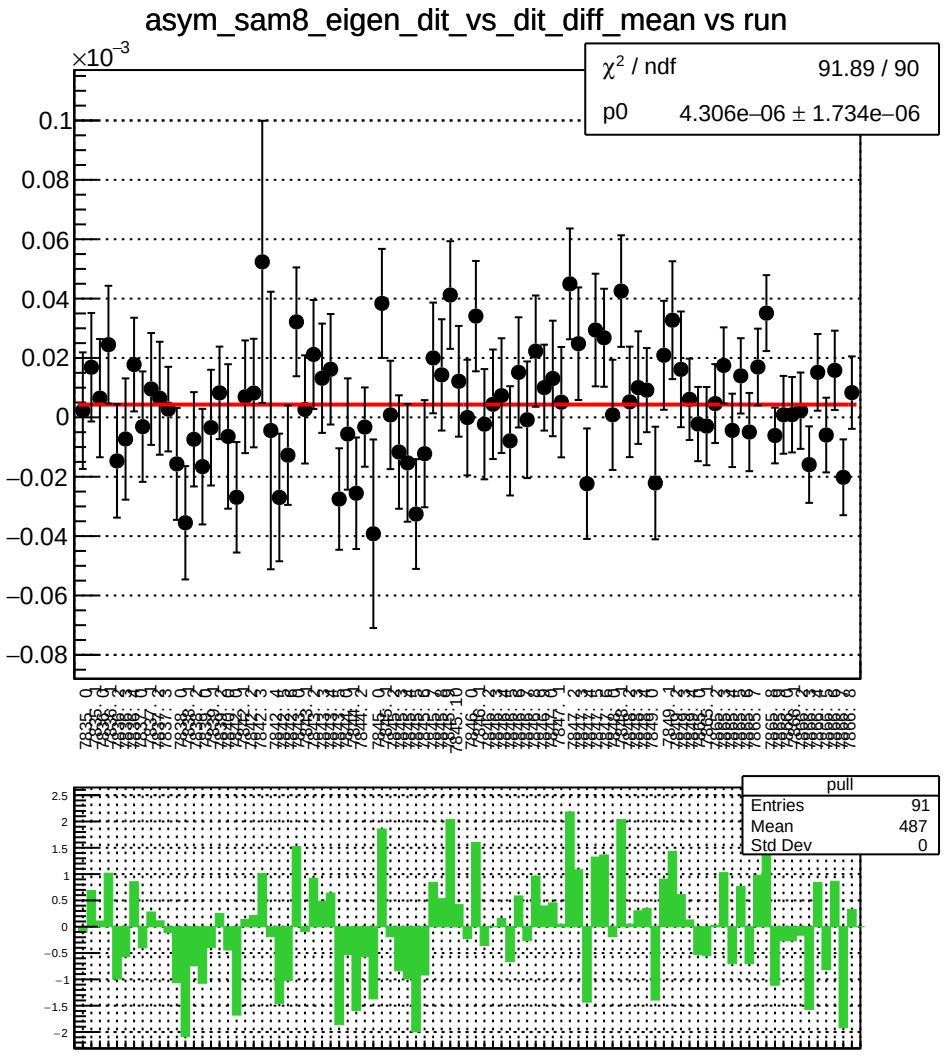

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 99.78 / 90
p0 0.02841± 0.03621
pull
Entries 91
Mean −237.8
Std Dev 0

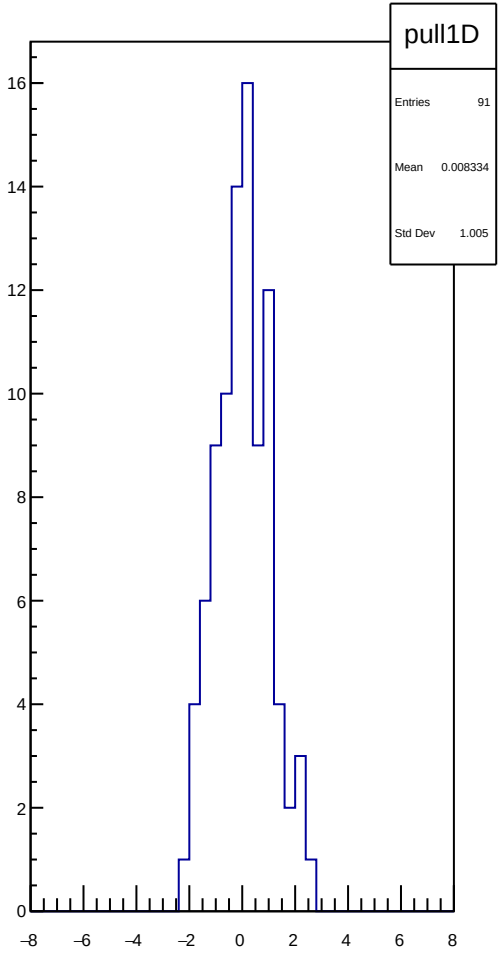

pull1D
Entries 91
Mean −0.01017
Std Dev 1.047

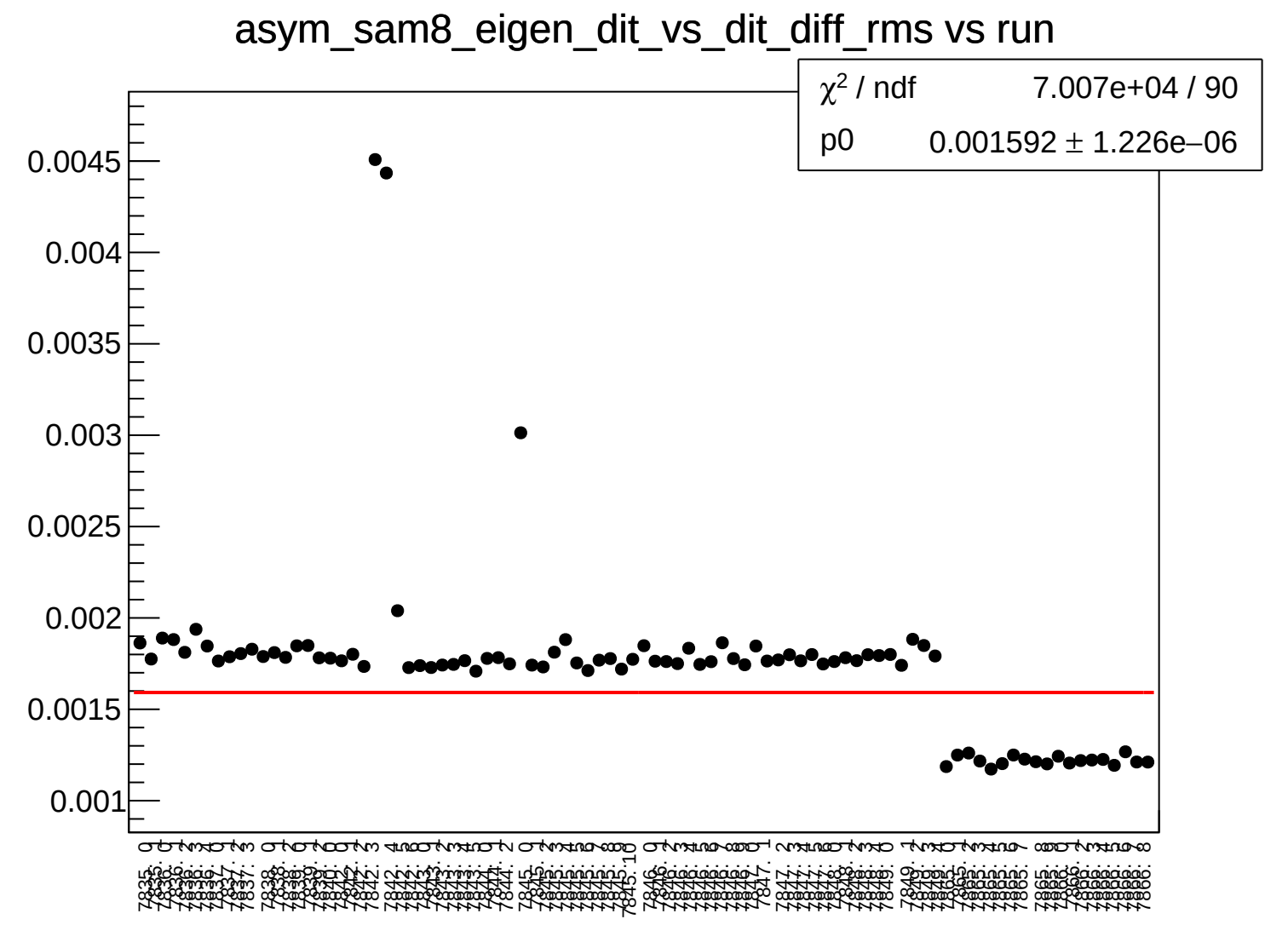

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.979e+04 / 90
p0 33.44 ± 0.02561
110
100
90
80
70
60
50
40
30
20

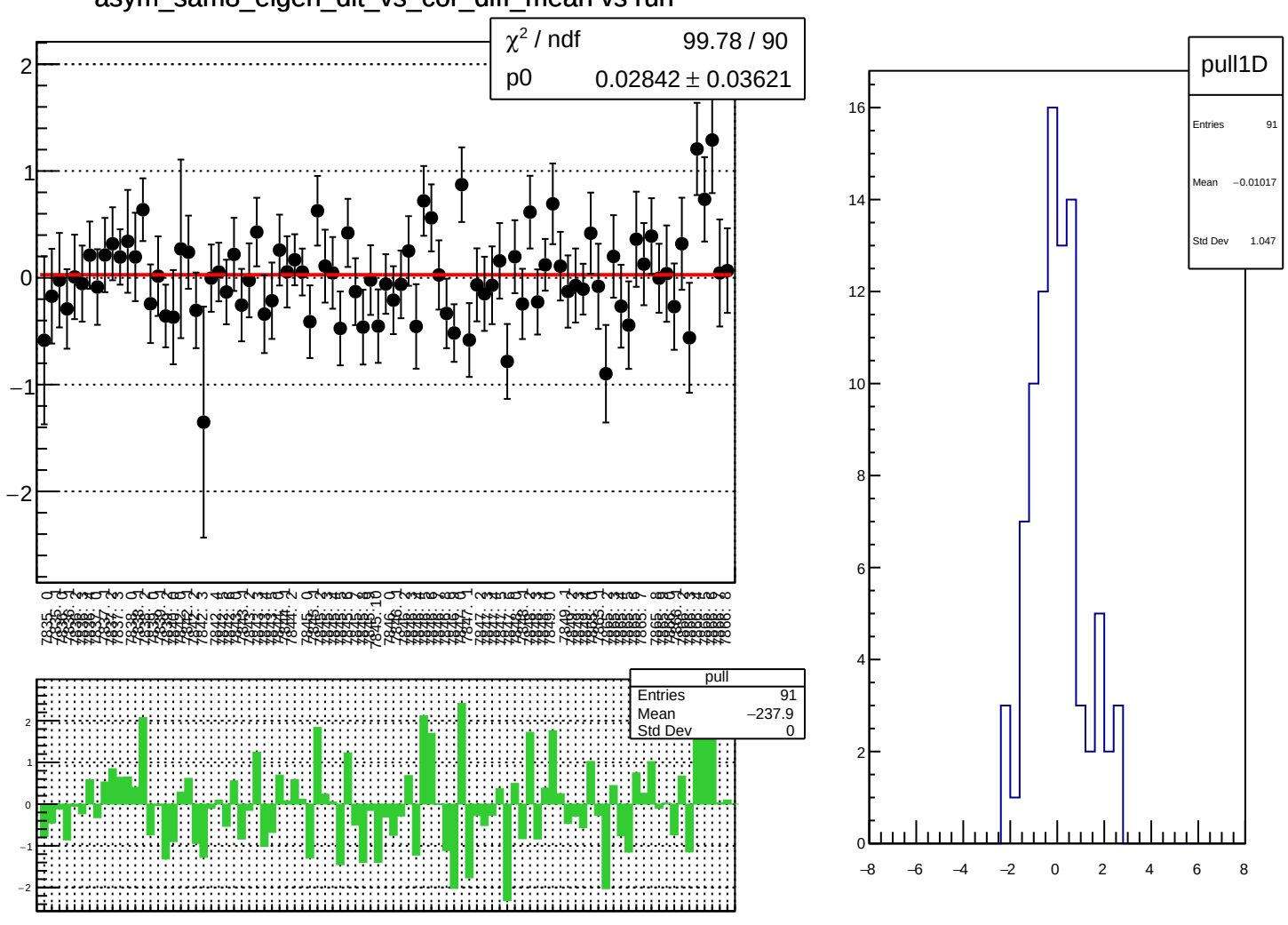

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.78 / 90
p0 0.02841± 0.03621
pull
Entries 91
Mean −237.8
Std Dev 0
pull1D
Entries 91
Mean −0.01017
Std Dev 1.047

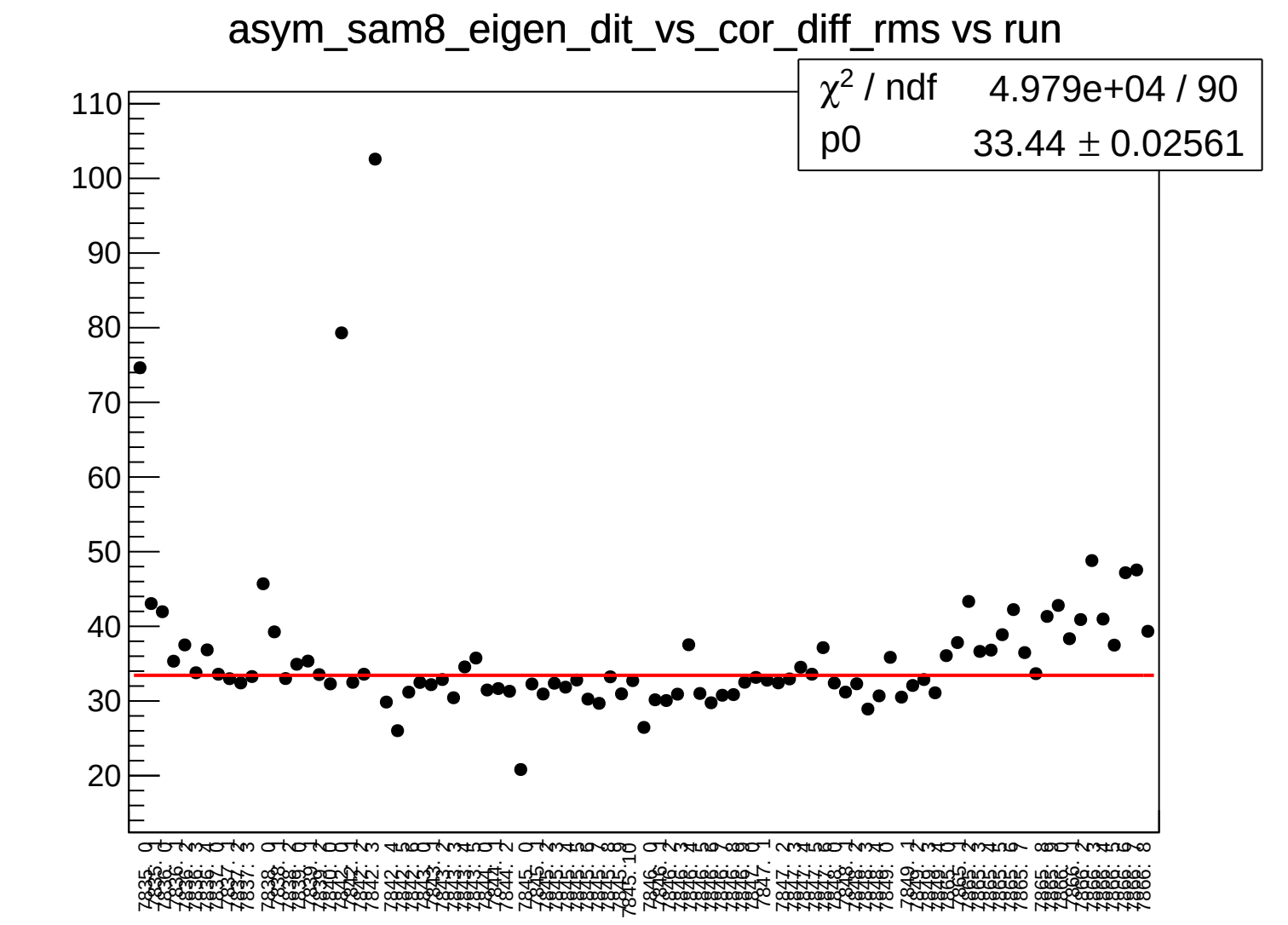

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.979e+04 / 90
p0 33.44 ± 0.02561
110
100
90
80
70
60
50
40
30
20

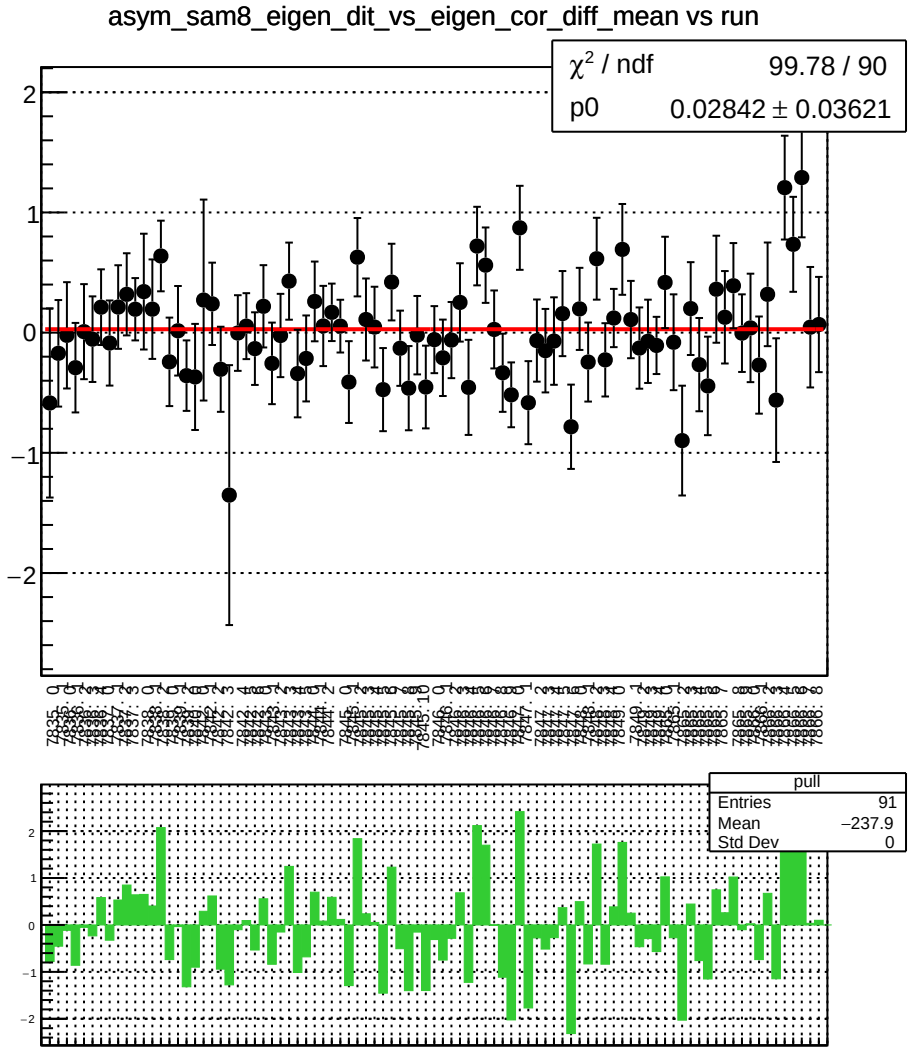

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.89 / 90
p0 4.306e−06 ± 1.734e−06
pull
Entries 91
Mean 487
Std Dev 0

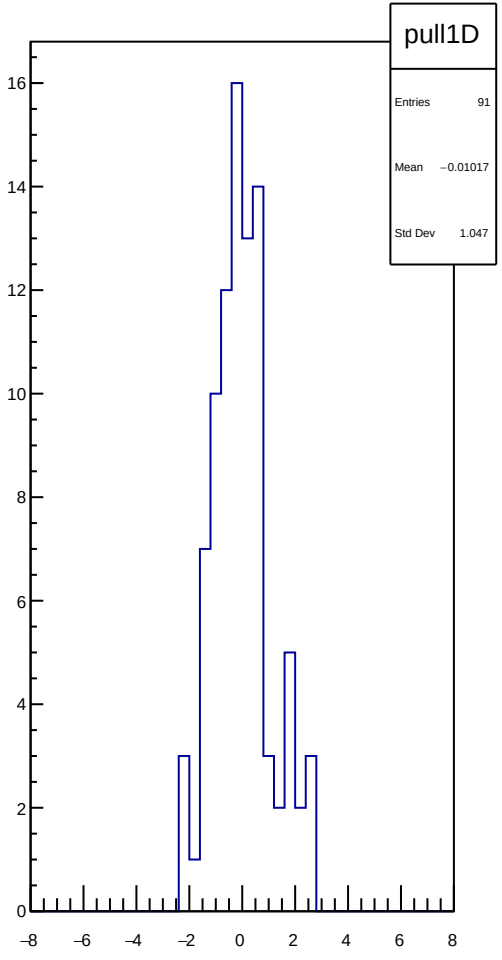

pull1D
Entries 91
Mean 0.008334
Std Dev 1.005

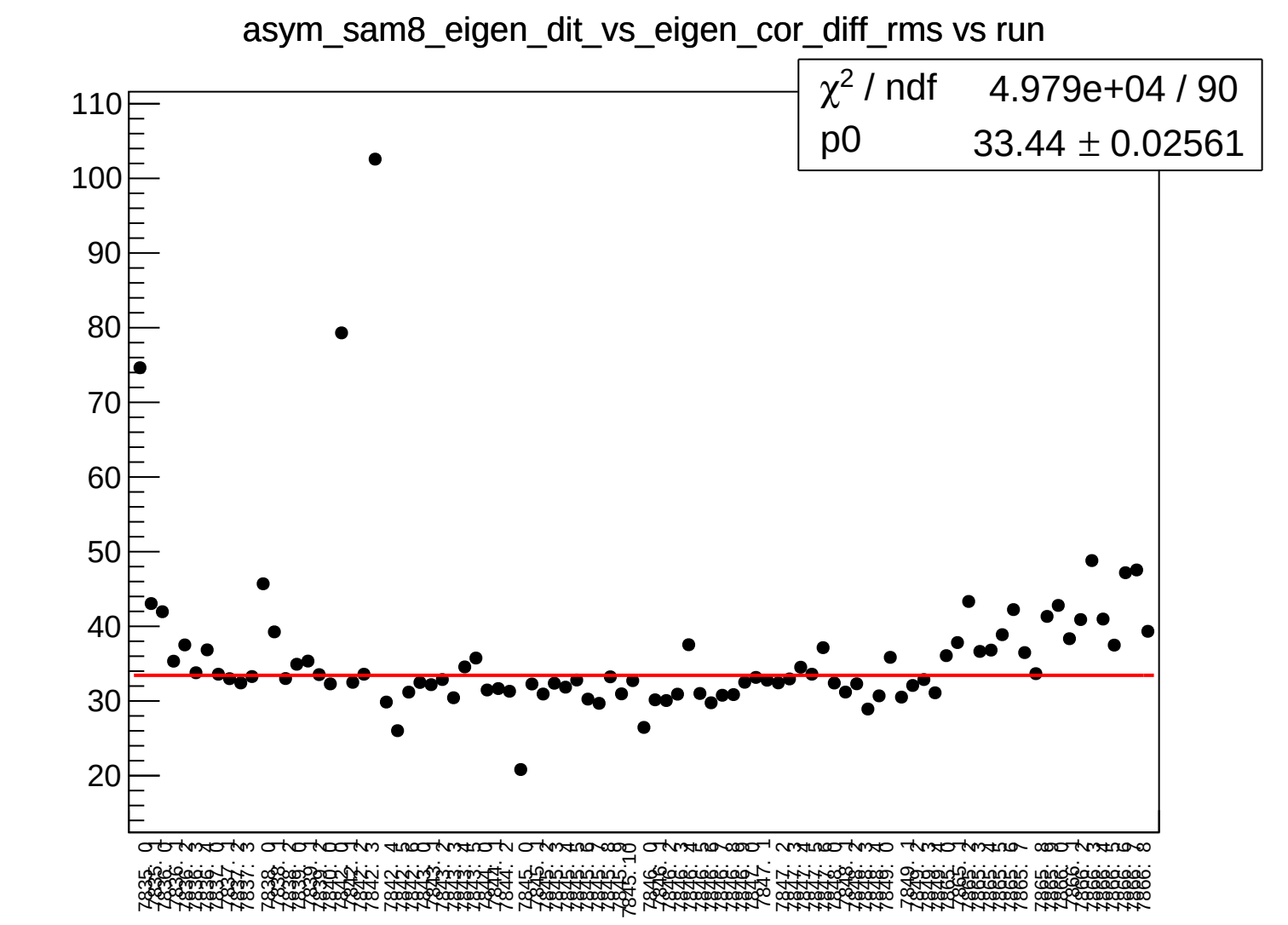

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.007e+04 / 90
p0 0.001592 ± 1.226e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

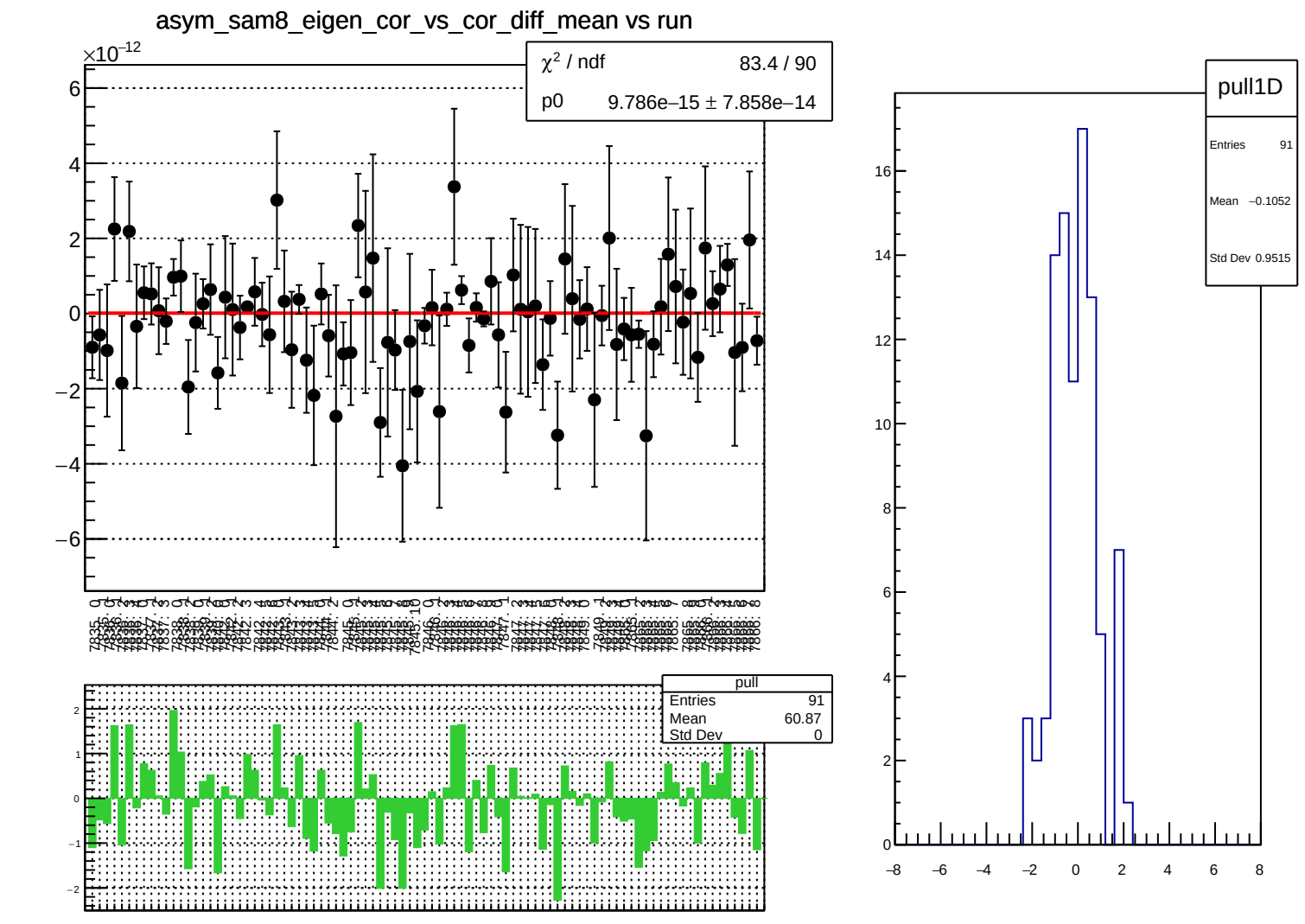

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.78 / 90
p0 0.02842 ± 0.03621
pull
Entries 91
Mean −237.9
Std Dev 0
pull1D
Entries 91
Mean −0.01017
Std Dev 1.047

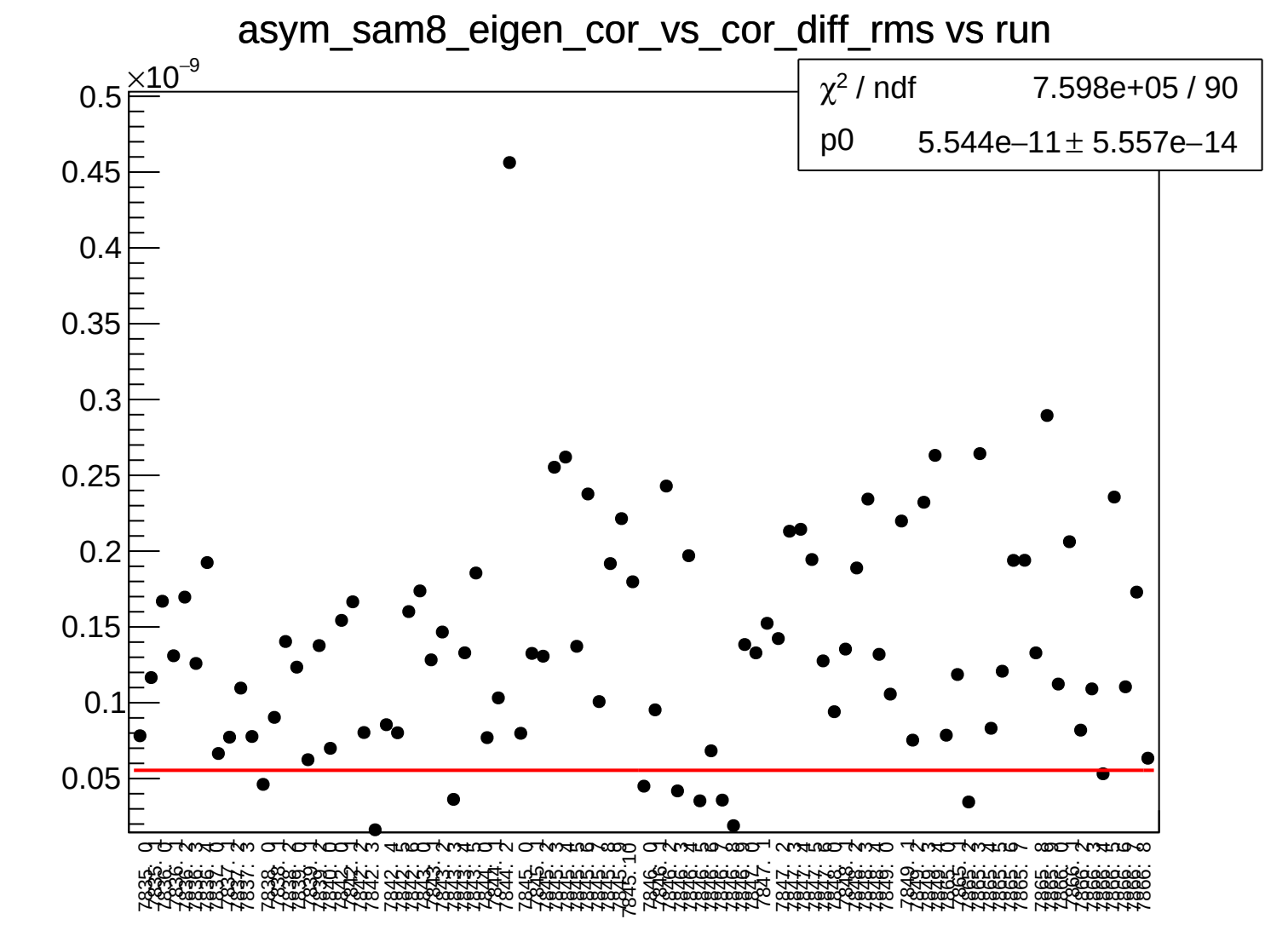

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.979e+04 / 90
p0 33.44 ± 0.02561
110
100
90
80
70
60
50
40
30
20

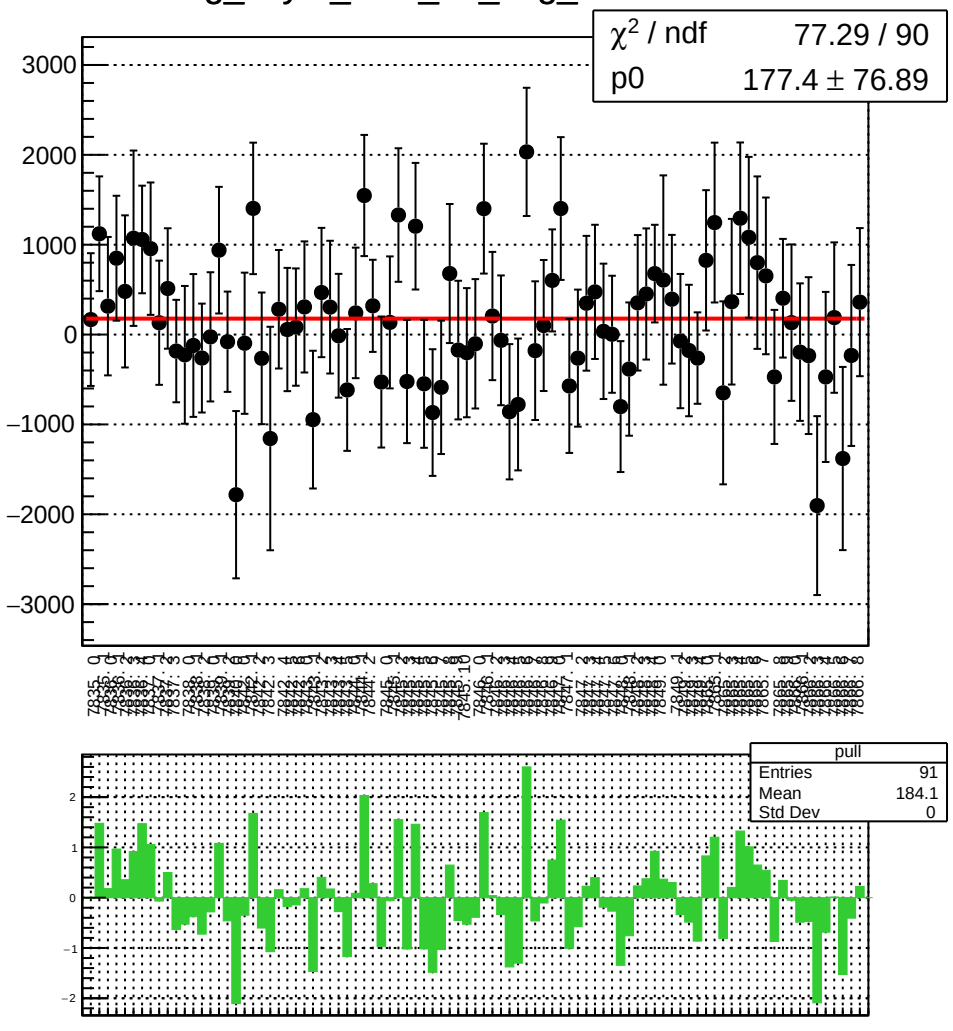

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.78 / 90
p0 0.02842 ± 0.03621
pull
Entries 91
Mean −237.9
Std Dev 0

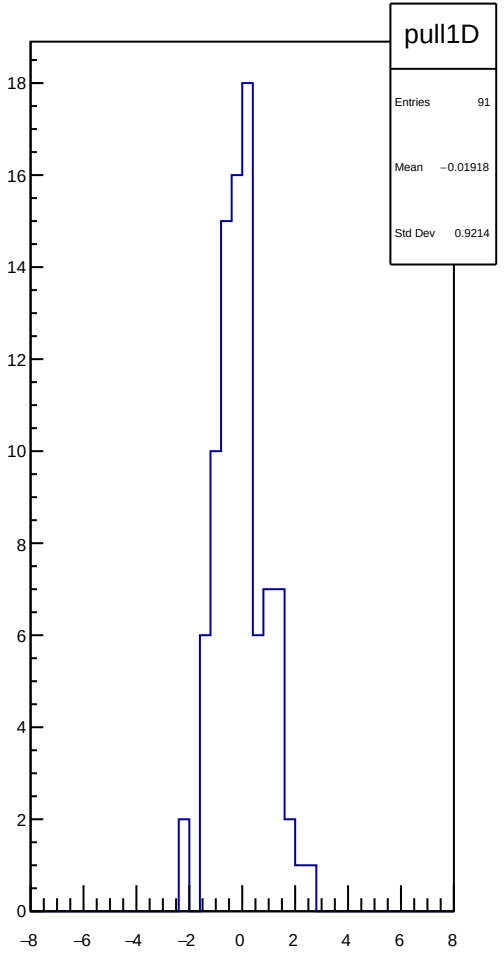

pull1D
Entries 91
Mean −0.01017
Std Dev 1.047

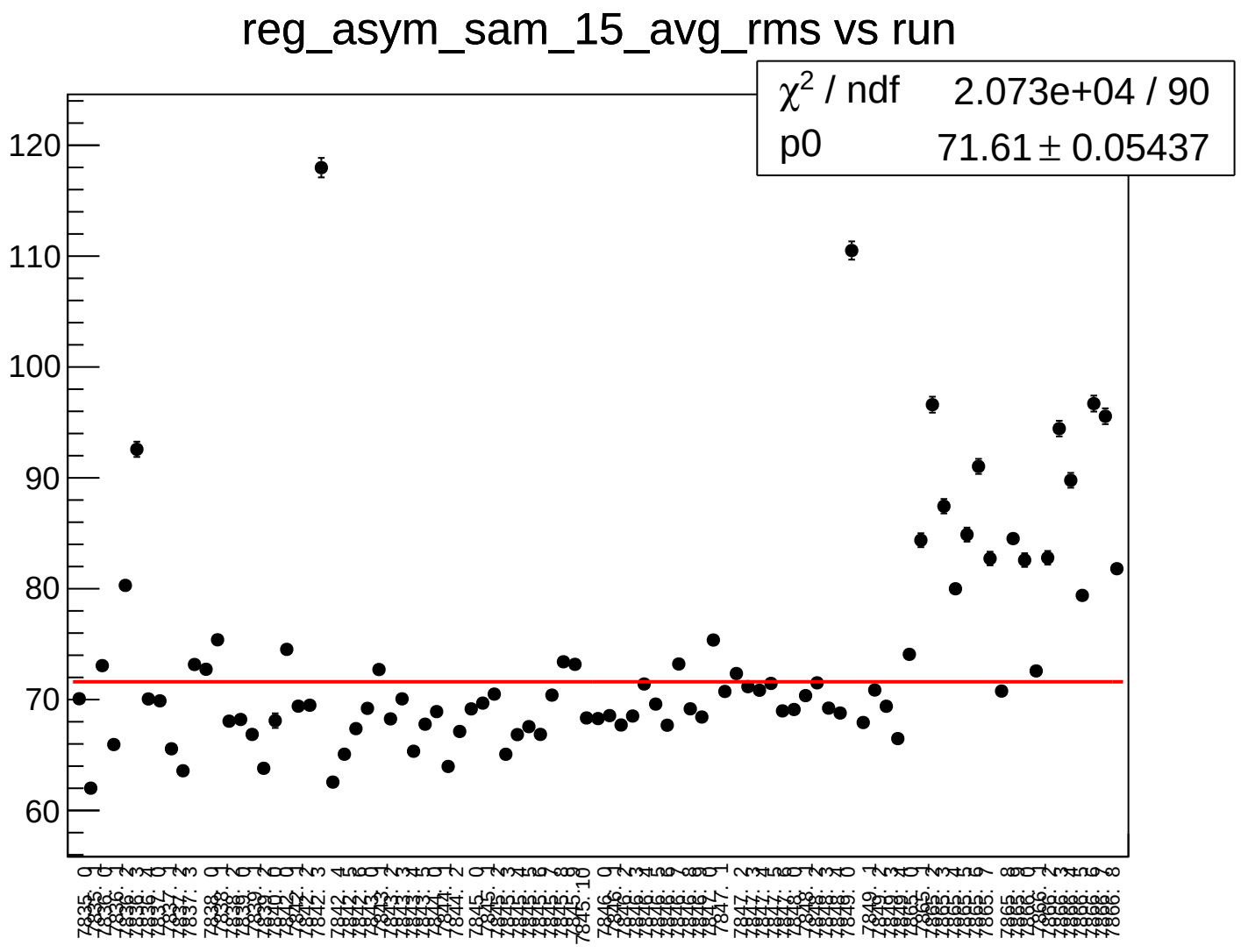

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.979e+04 / 90
p0 33.44 ± 0.02561
110
100
90
80
70
60
50
40
30
20

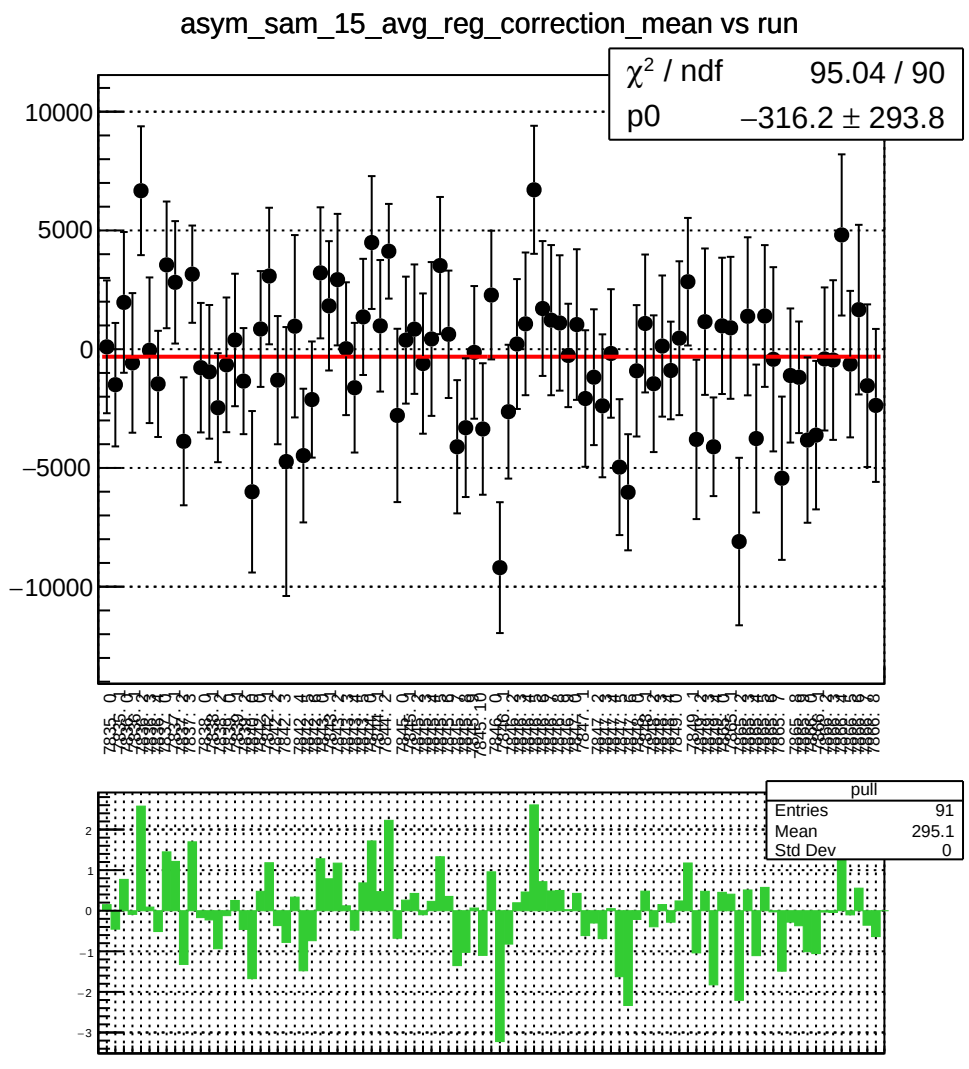

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.4 / 90
p0 9.786e−15 ± 7.858e−14
pull
Entries 91
Mean 60.87
Std Dev 0
pull1D
Entries 91
Mean −0.1052
Std Dev 0.9515

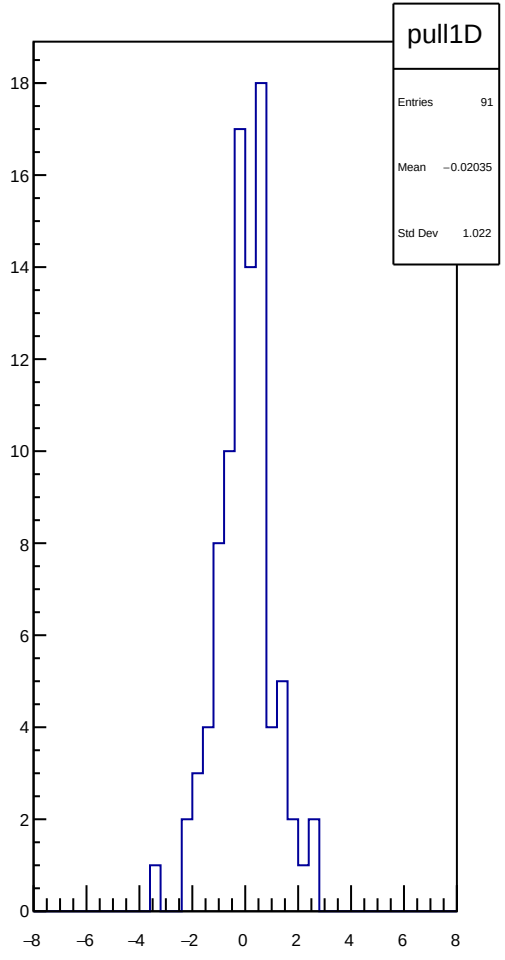

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.598e+05 / 90
p0 5.544e−11 ± 5.557e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

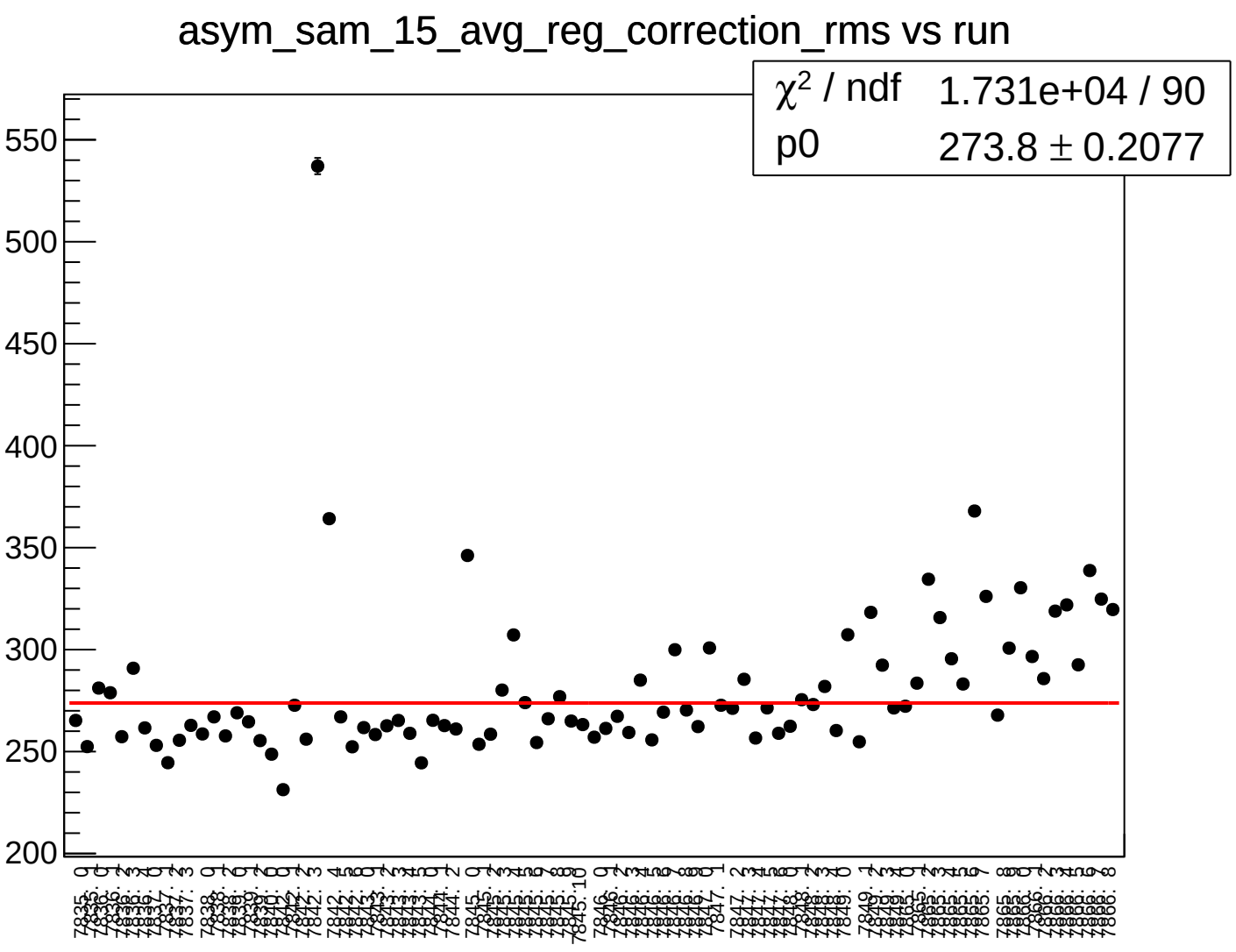

reg_asym_sam_15_avg_mean vs run
χ² / ndf 77.29 / 90
p0 177.4 ± 76.89
pull
Entries 91
Mean 184.1
Std Dev 0

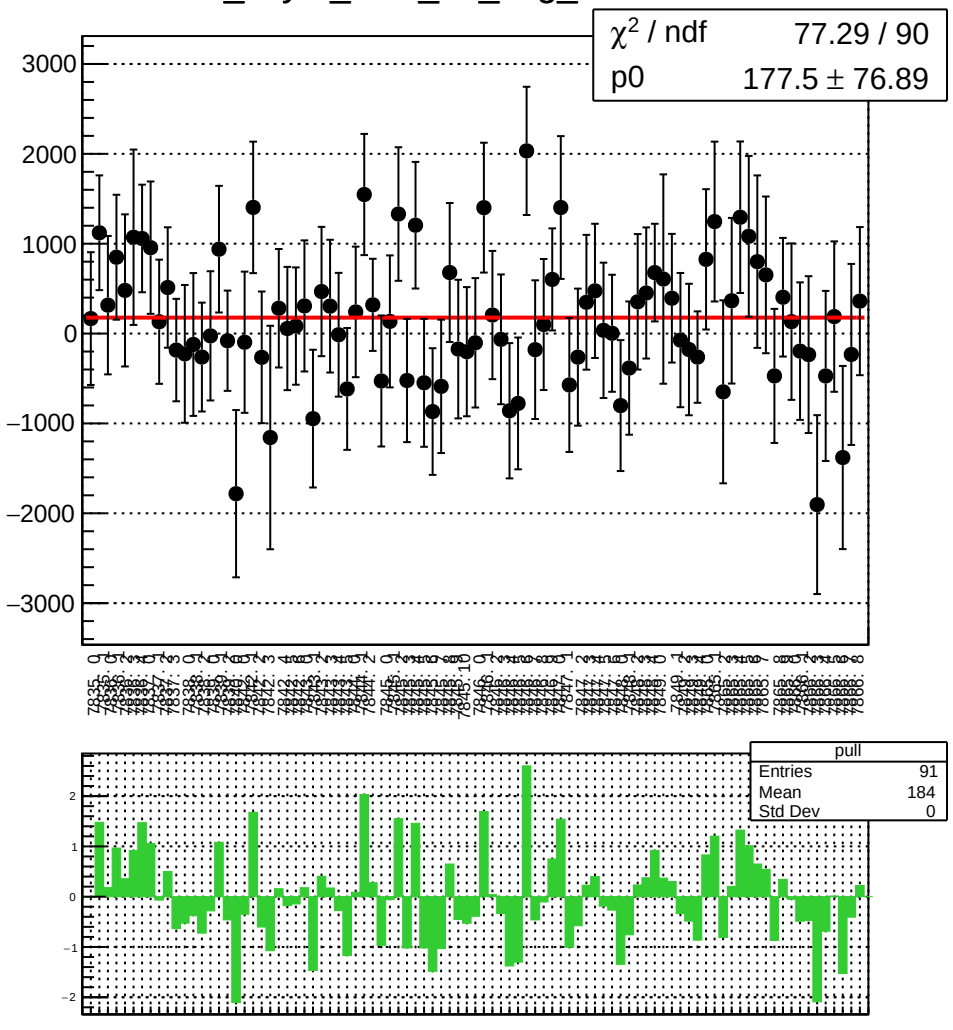

pull1D
Entries 91
Mean −0.01918
Std Dev 0.9214

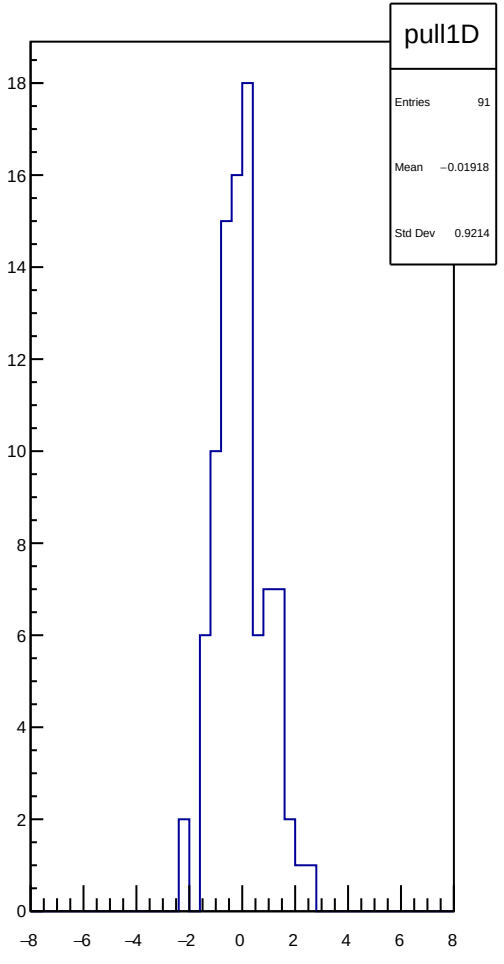

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.073e+04 / 90
p0 71.61 ± 0.05437
120
110
100
90
80
70
60

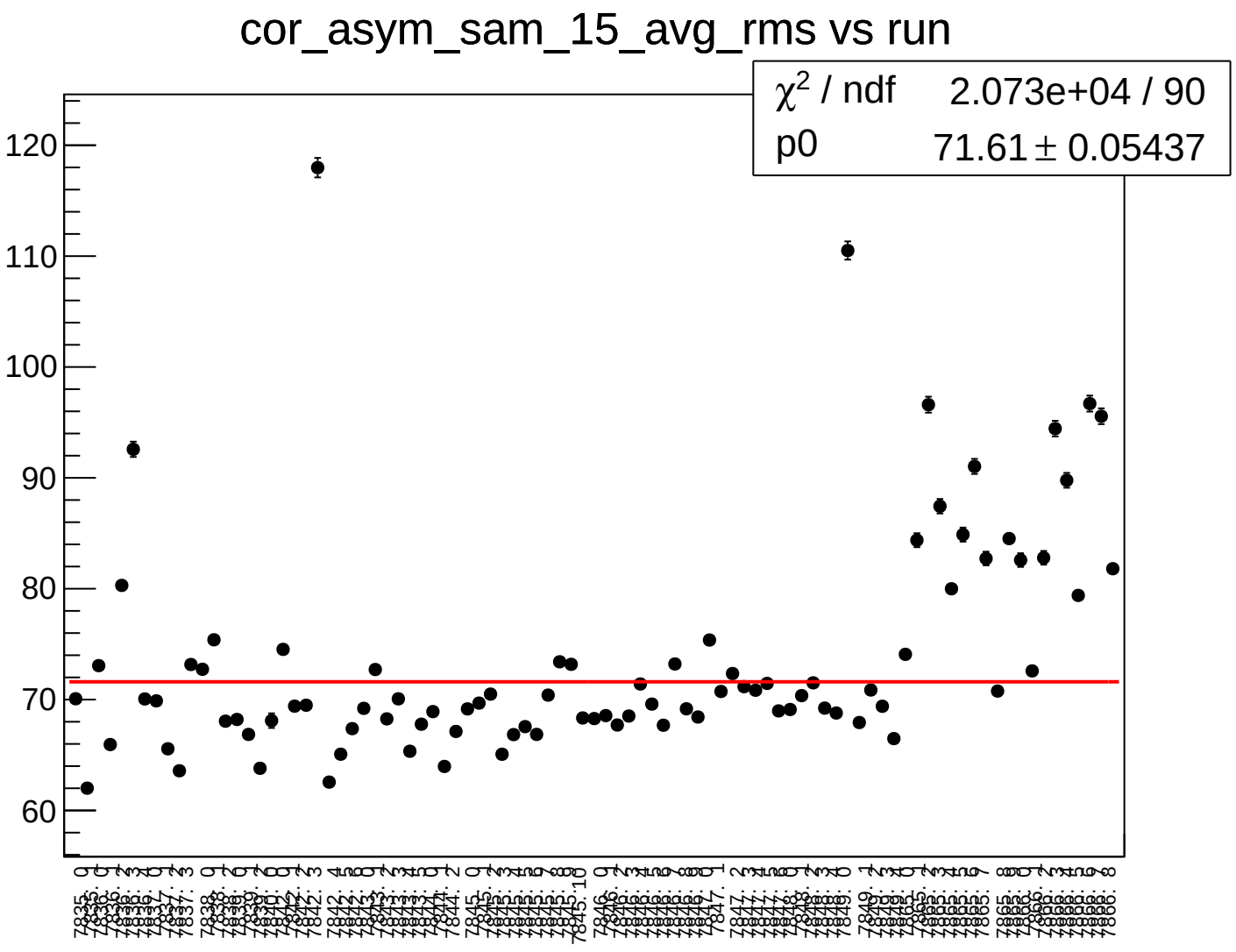

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 95.04 / 90
p0 −316.2 ± 293.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 295.1
Std Dev 0
2
1
0
−1
−2
−3

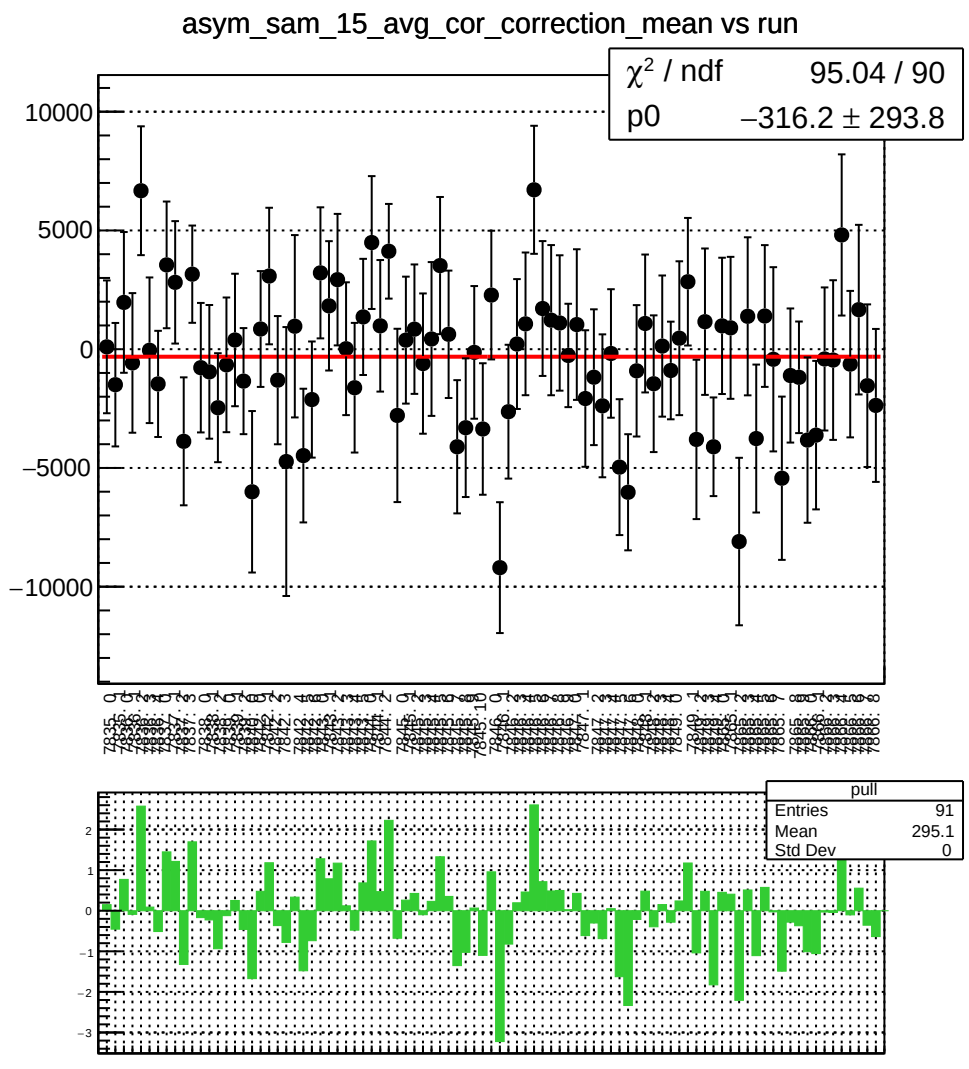

pull1D
Entries 91
Mean −0.02035
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

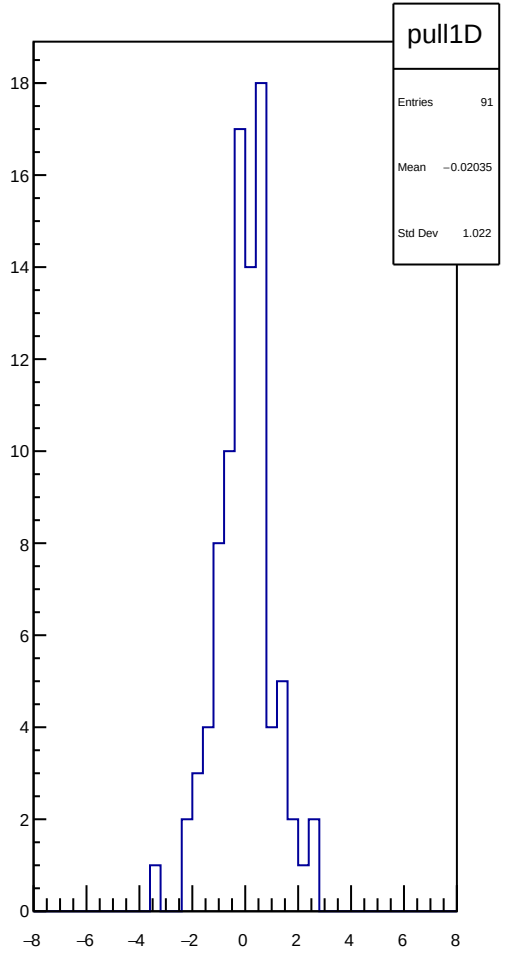

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.731e+04 / 90
p0 273.8 ± 0.2077
550
500
450
400
350
300
250
200

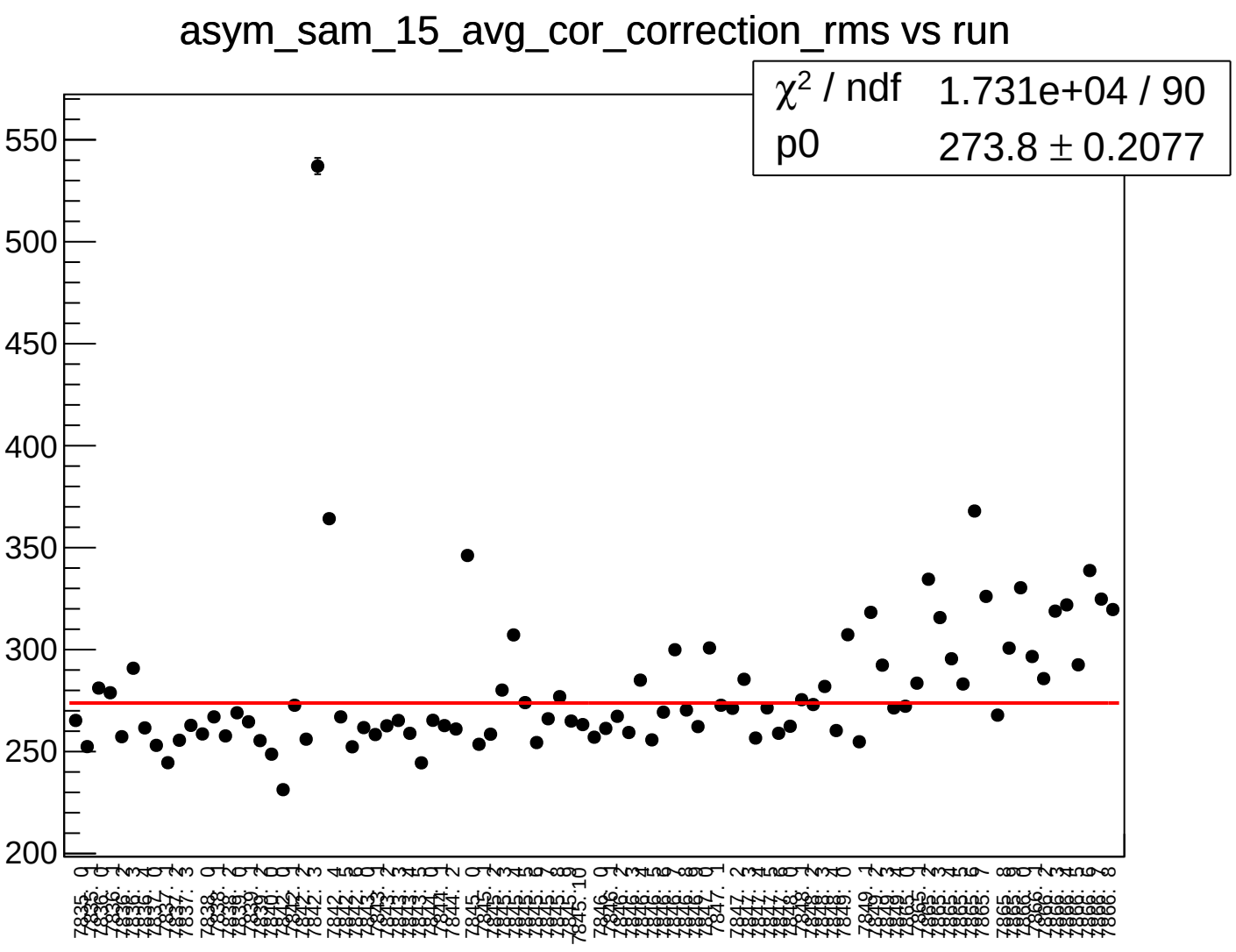

cor_asym_sam_15_avg_mean vs run
χ² / ndf 77.29 / 90
p0 177.5 ± 76.89
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 184
Std Dev 0
2
1
0
−1
−2

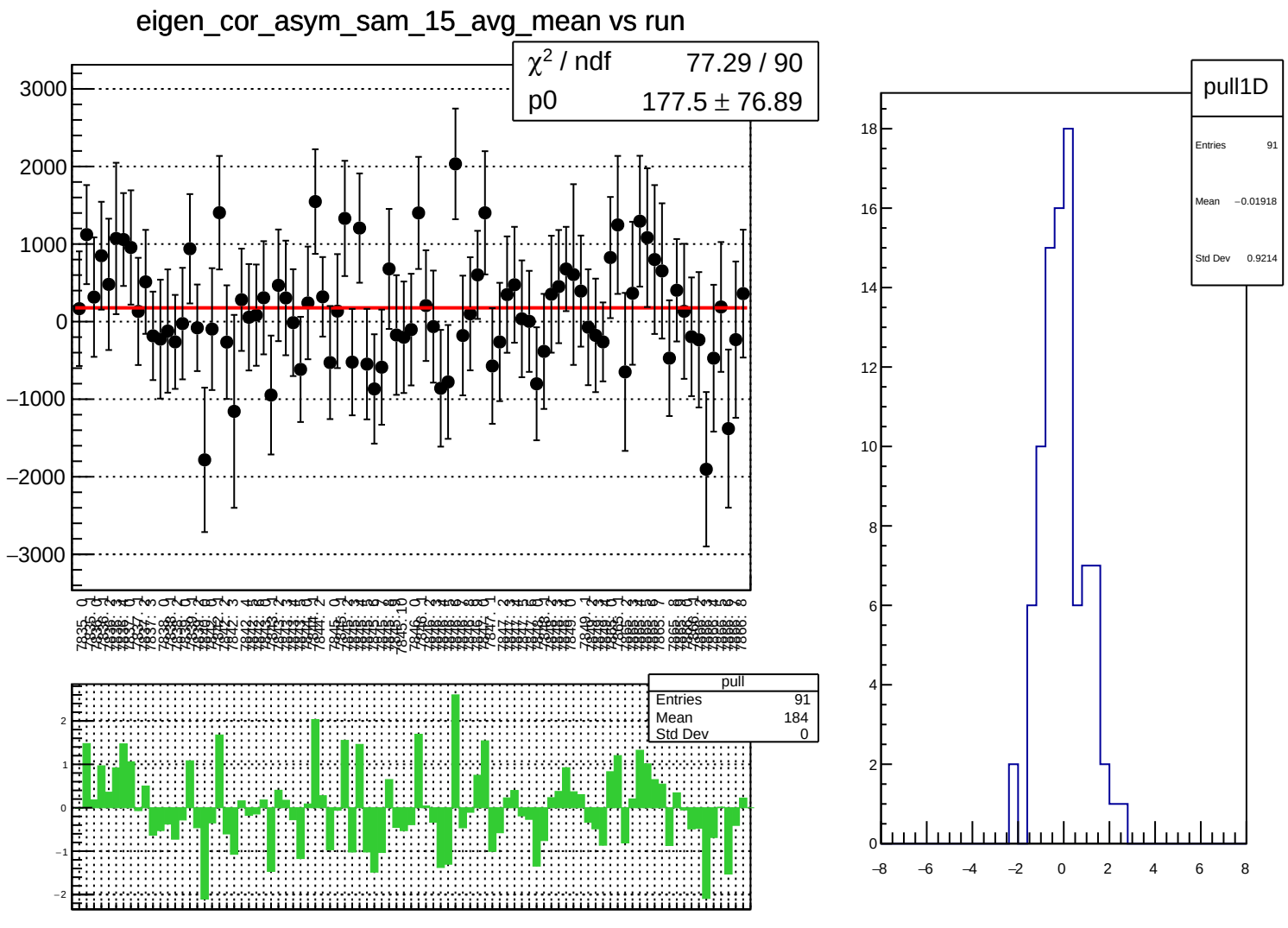

pull1D
Entries 91
Mean −0.01918
Std Dev 0.9214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

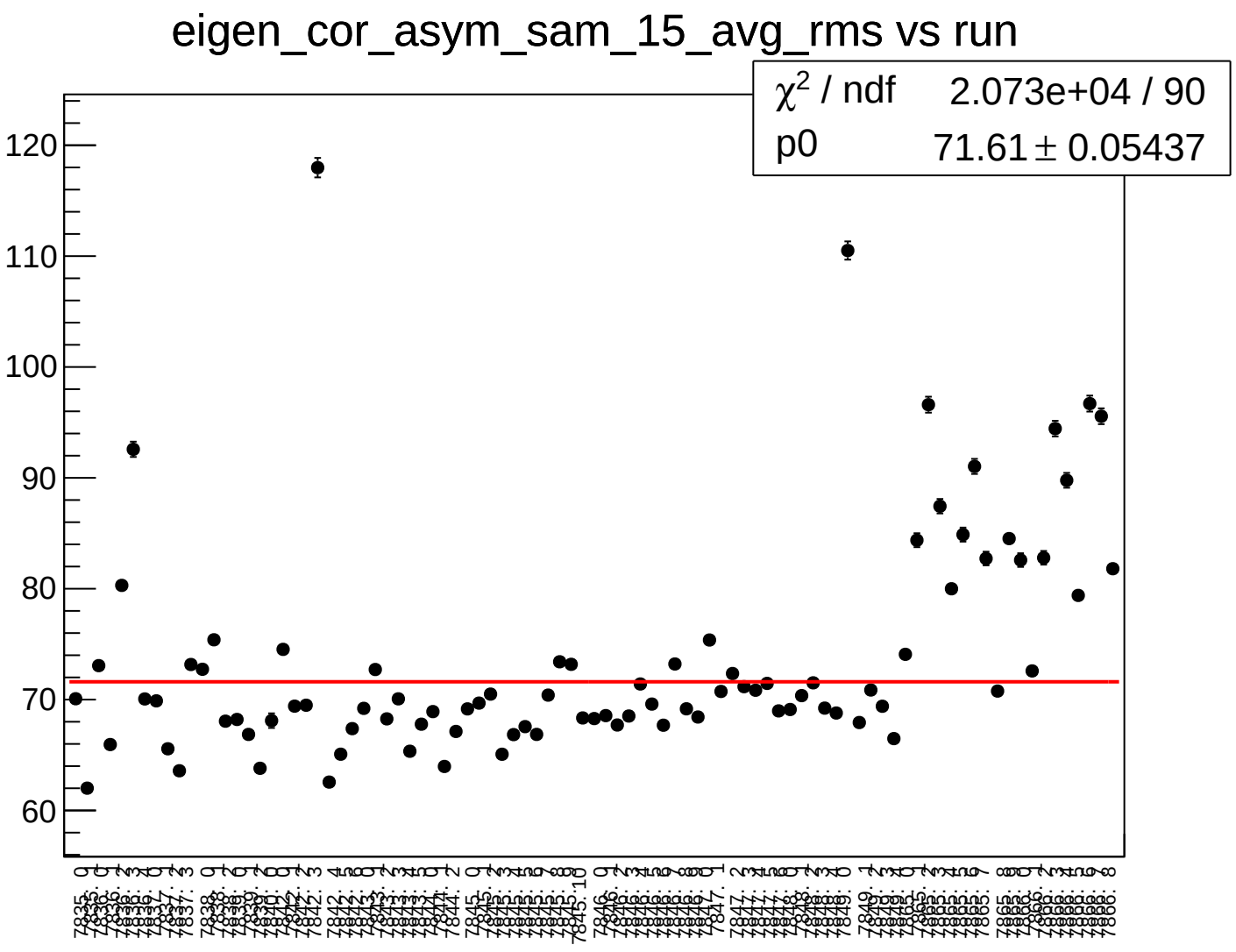

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.073e+04 / 90
p0 71.61 ± 0.05437
120
110
100
90
80
70
60

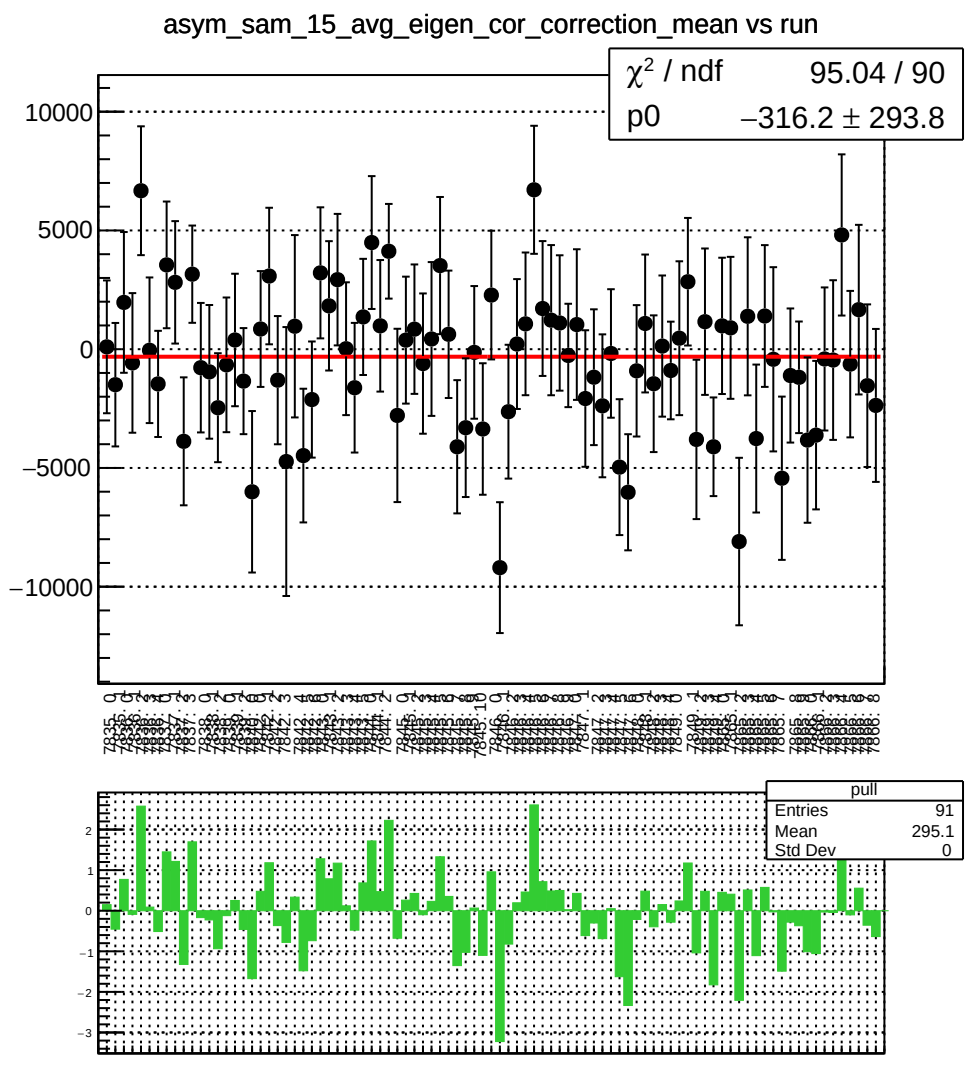

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 95.04 / 90
p0 −316.2 ± 293.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 295.1
Std Dev 0
2
1
0
−1
−2
−3

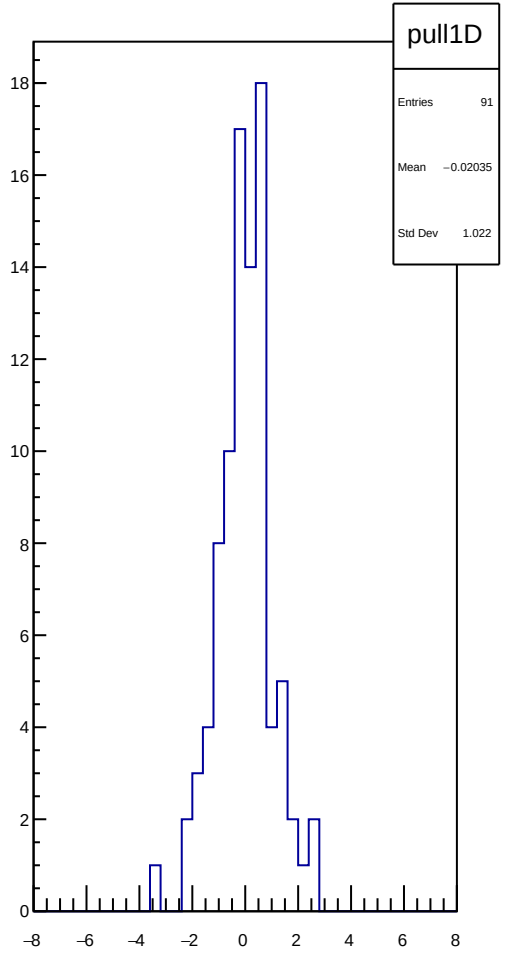

pull1D
Entries 91
Mean −0.02035
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

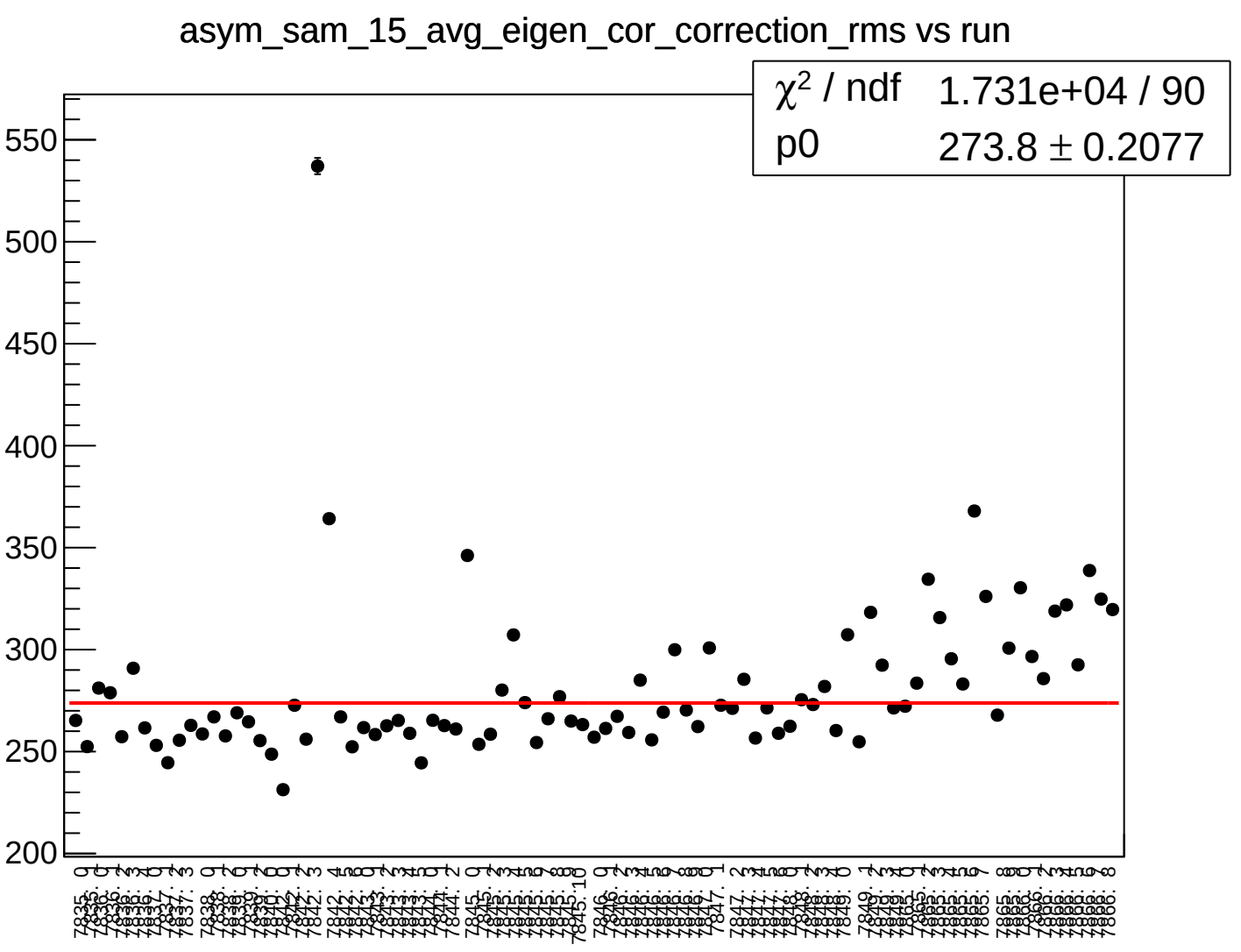

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.731e+04 / 90
p0 273.8 ± 0.2077
550
500
450
400
350
300
250
200

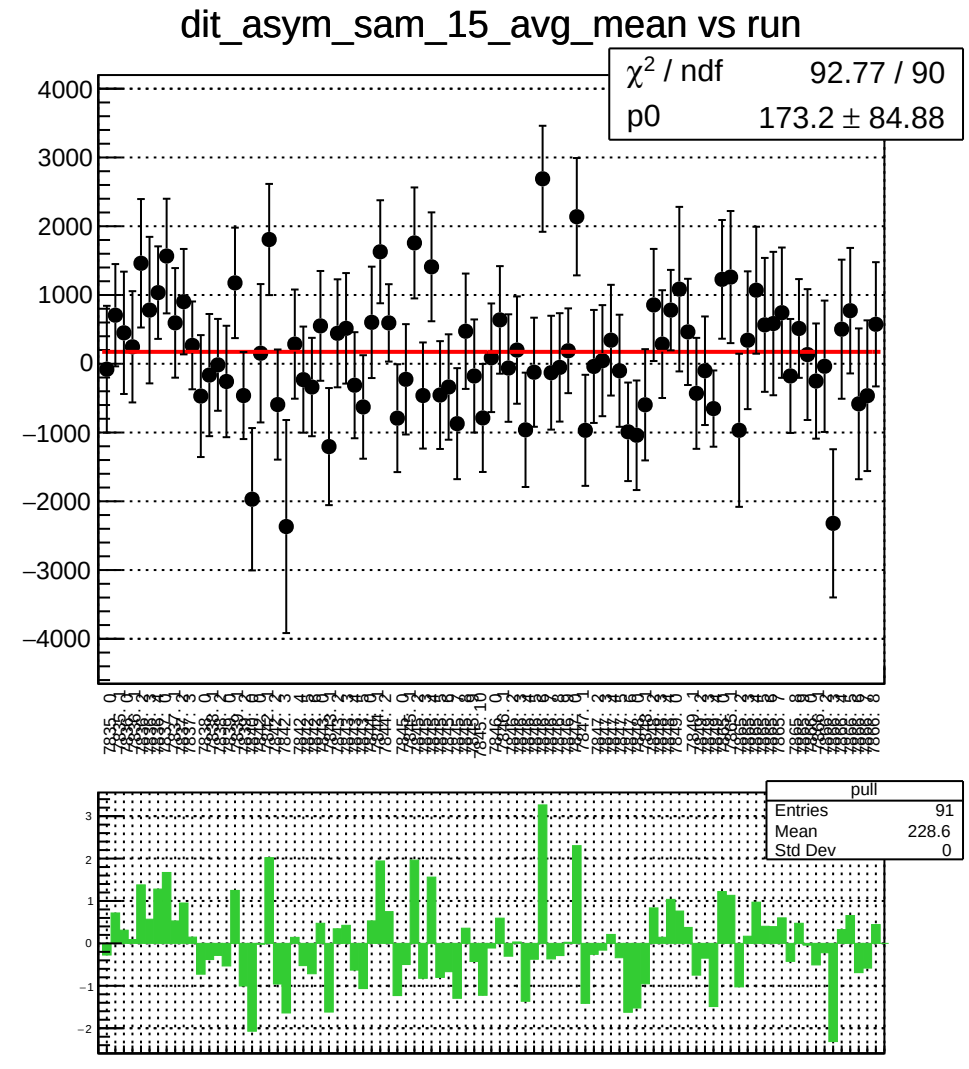

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 77.29 / 90
p0 177.5 ± 76.89
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 184
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01918
Std Dev 0.9214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

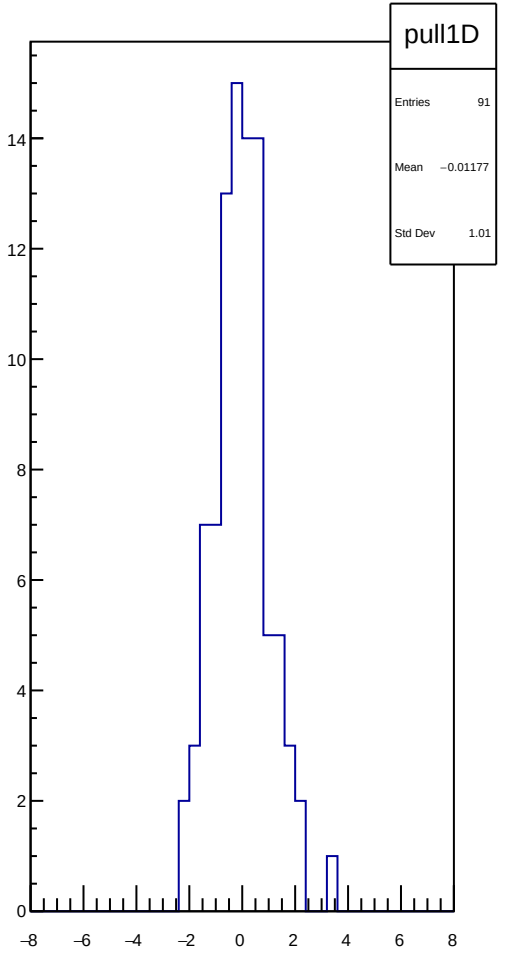

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.073e+04 / 90
p0 71.61 ± 0.05437
120
110
100
90
80
70
60

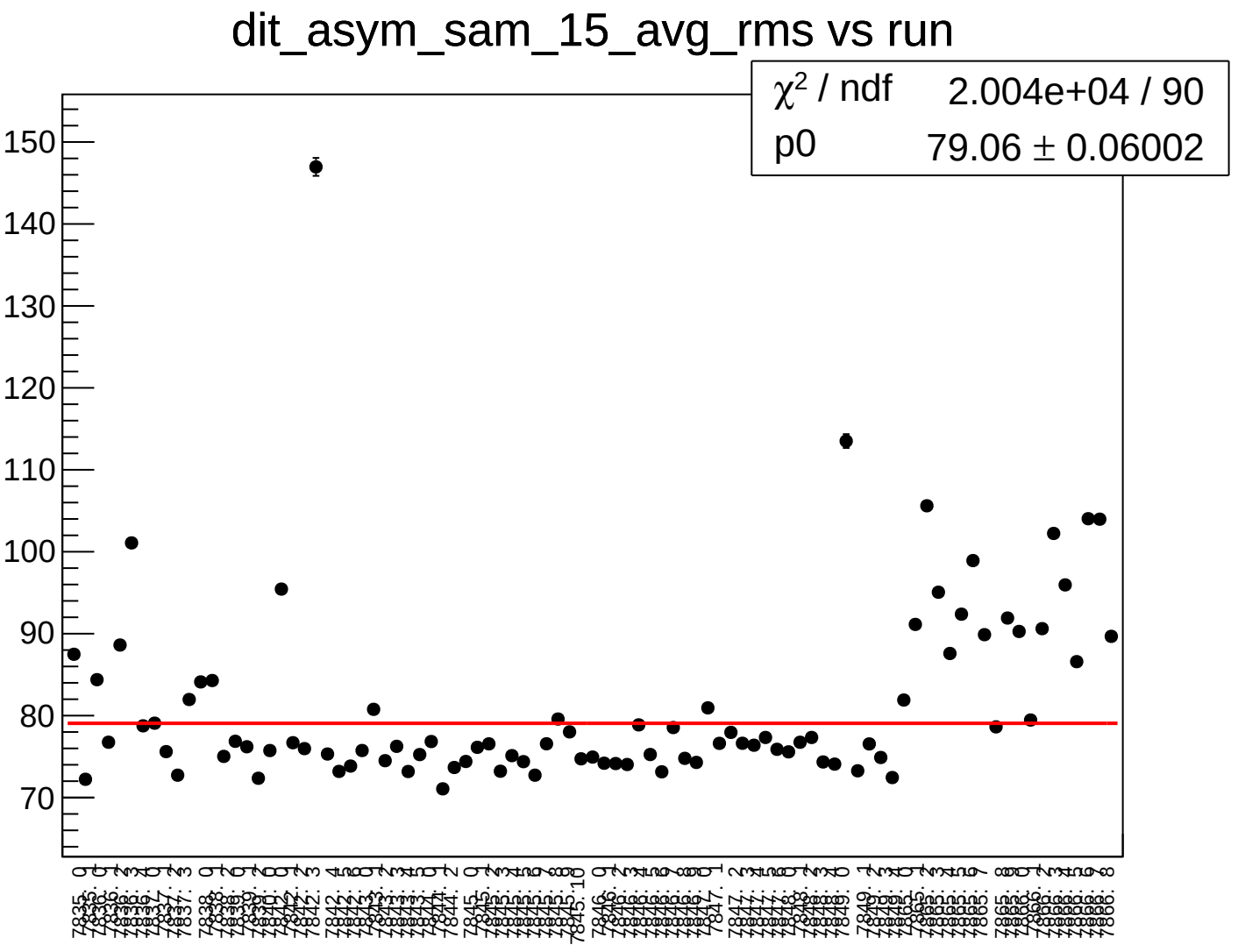

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.04 / 90
p0 −316.2 ± 293.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 295.1
Std Dev 0
2
1
0
−1
−2
−3

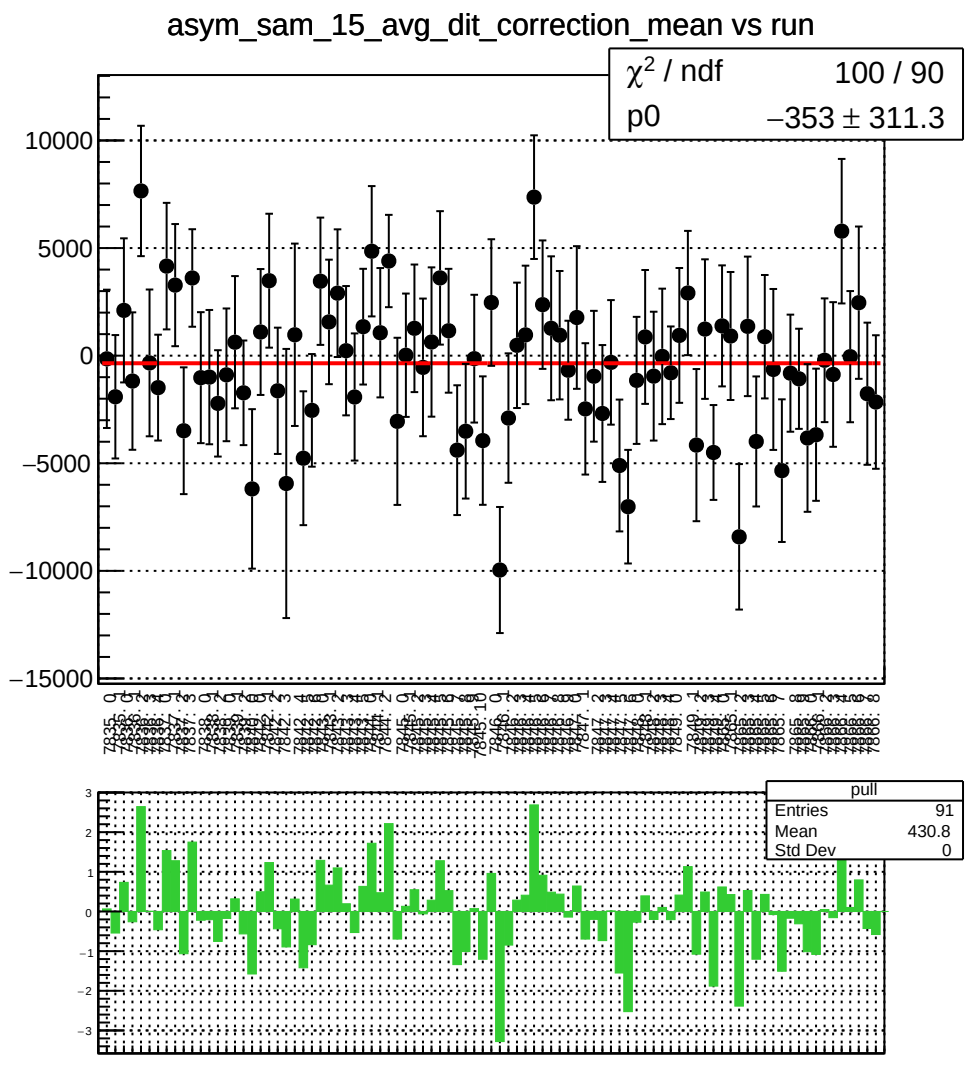

pull1D
Entries 91
Mean −0.02035
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

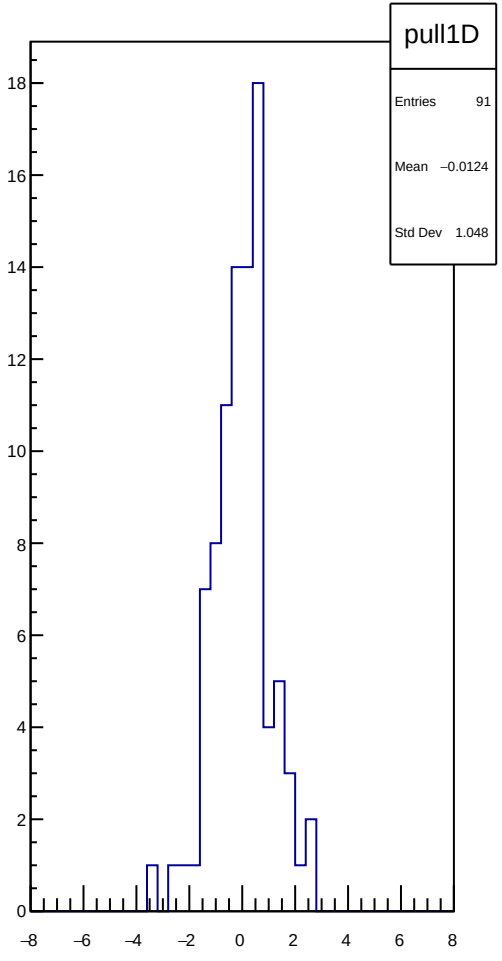

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.731e+04 / 90
p0 273.8 ± 0.2077
550
500
450
400
350
300
250
200

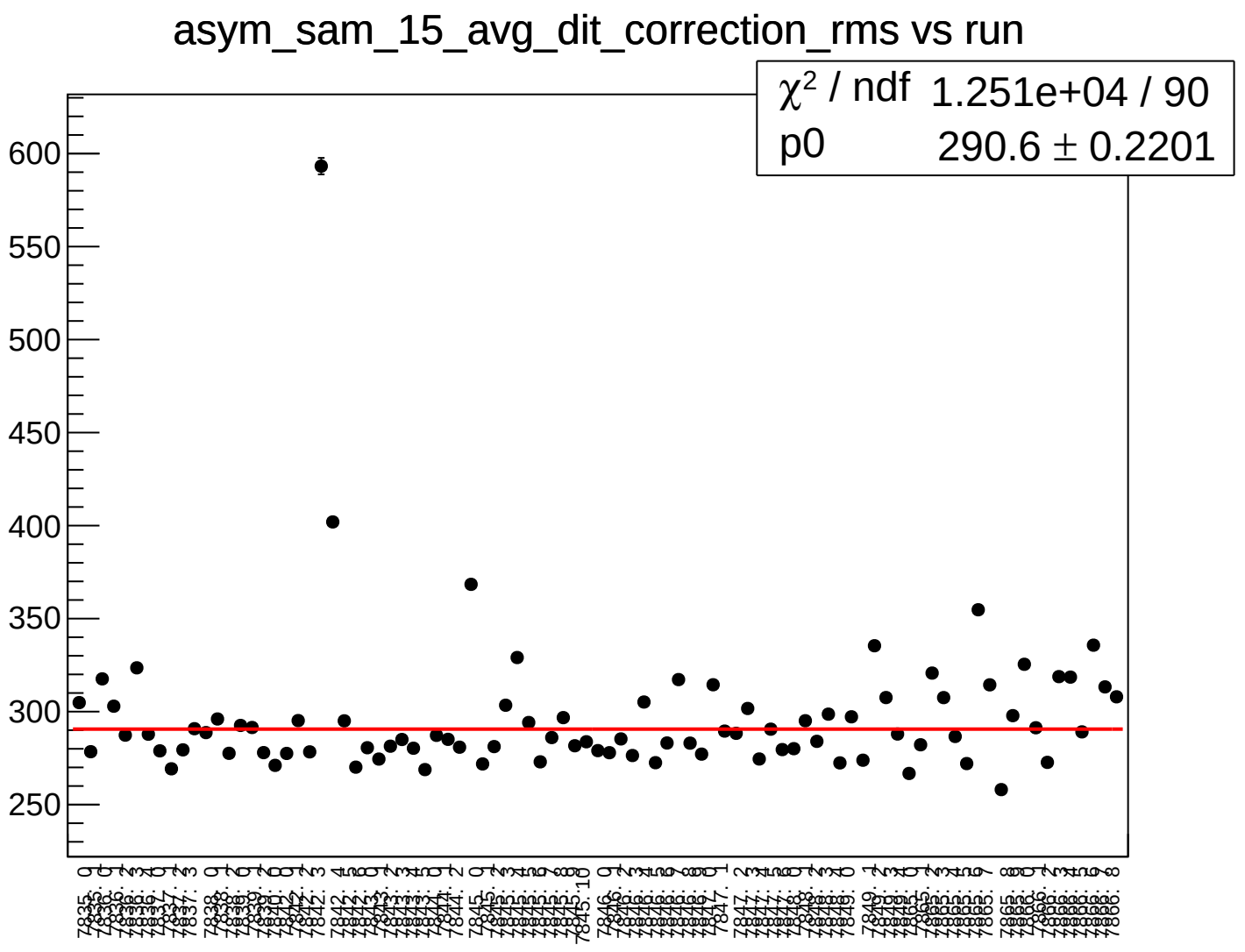

dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.77 / 90
p0 173.2 ± 84.88
pull
Entries 91
Mean 228.6
Std Dev 0

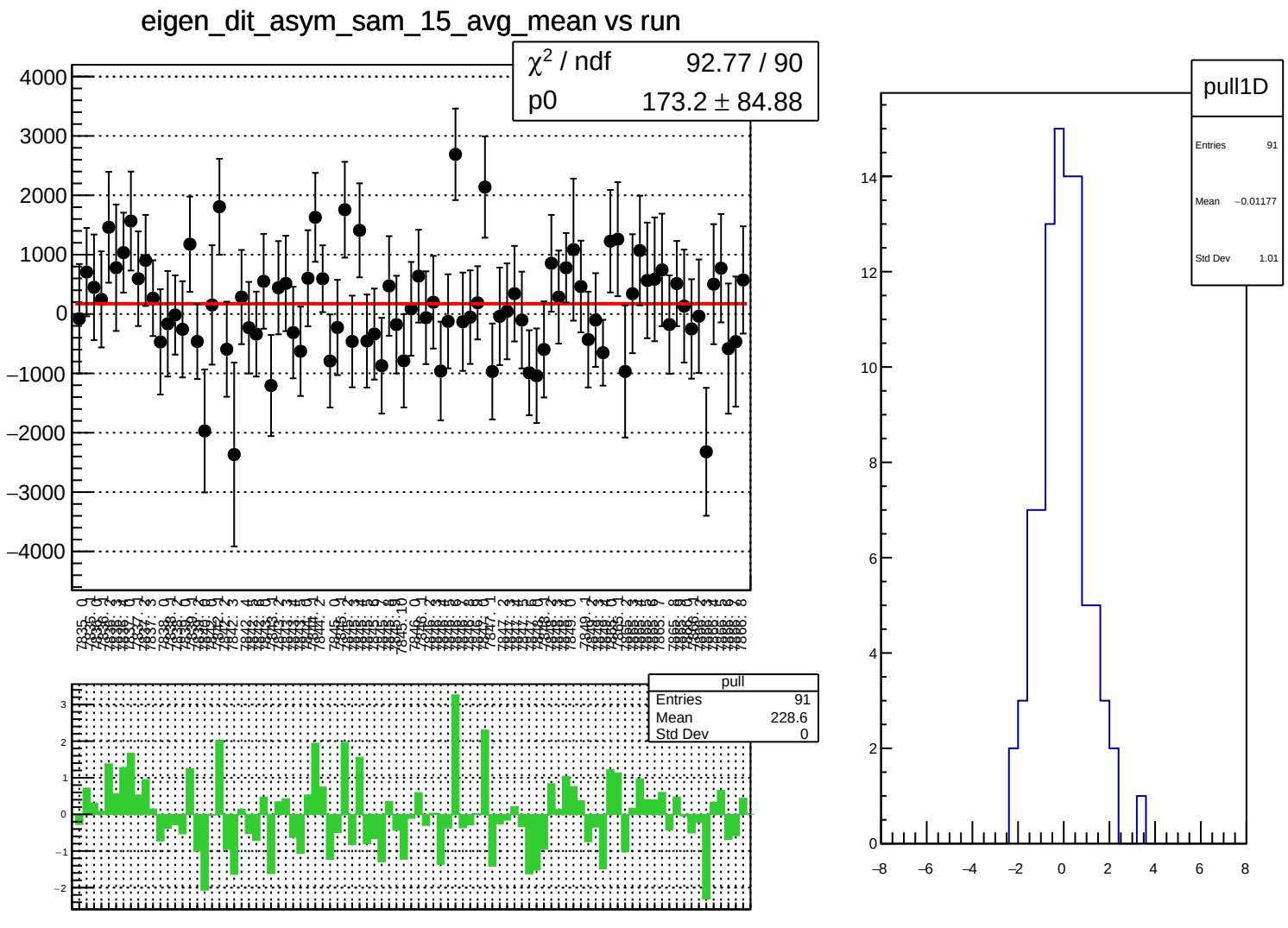

pull1D
Entries 91
Mean −0.01177
Std Dev 1.01

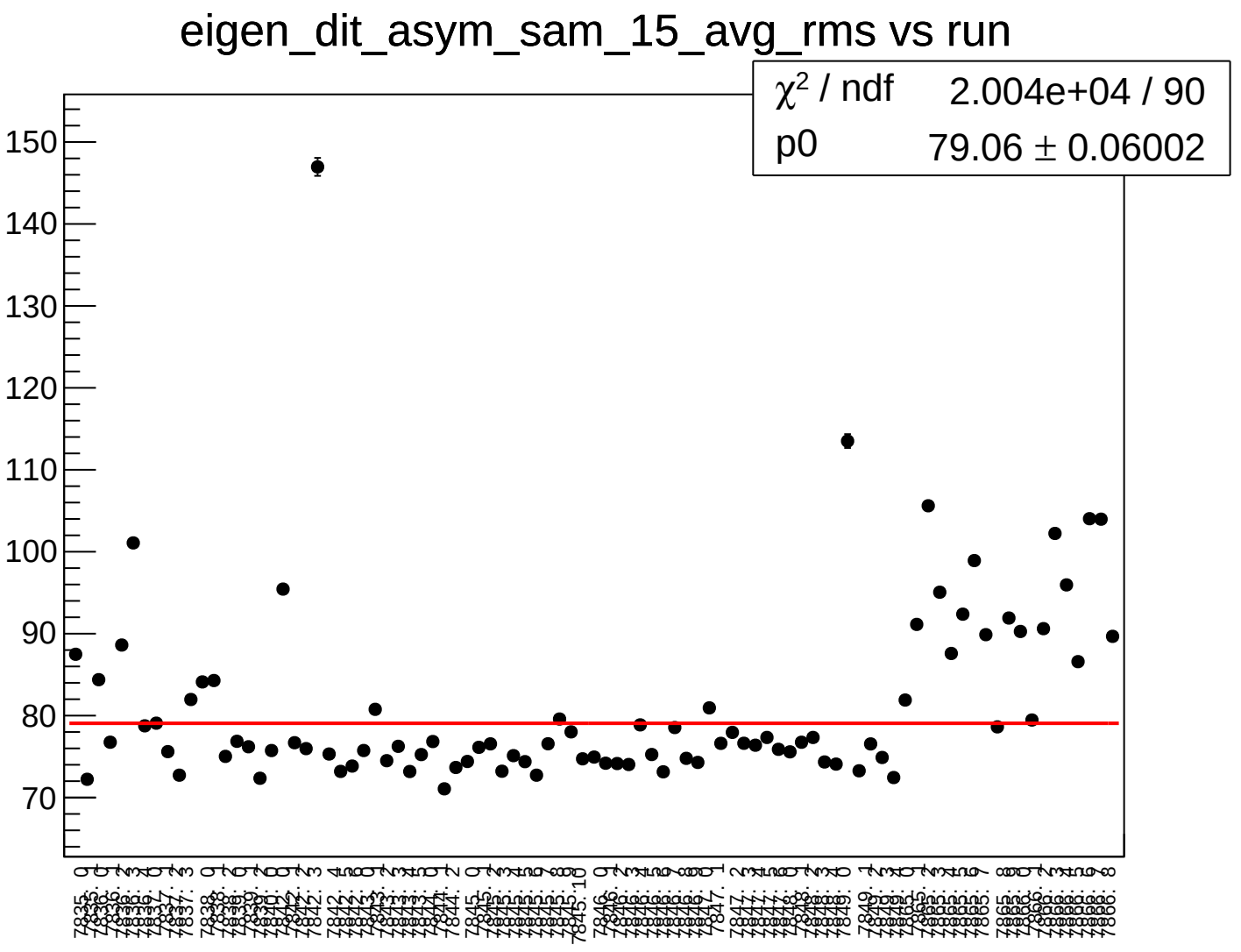

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.004e+04 / 90
p0 79.06 ± 0.06002
150
140
130
120
110
100
90
80
70

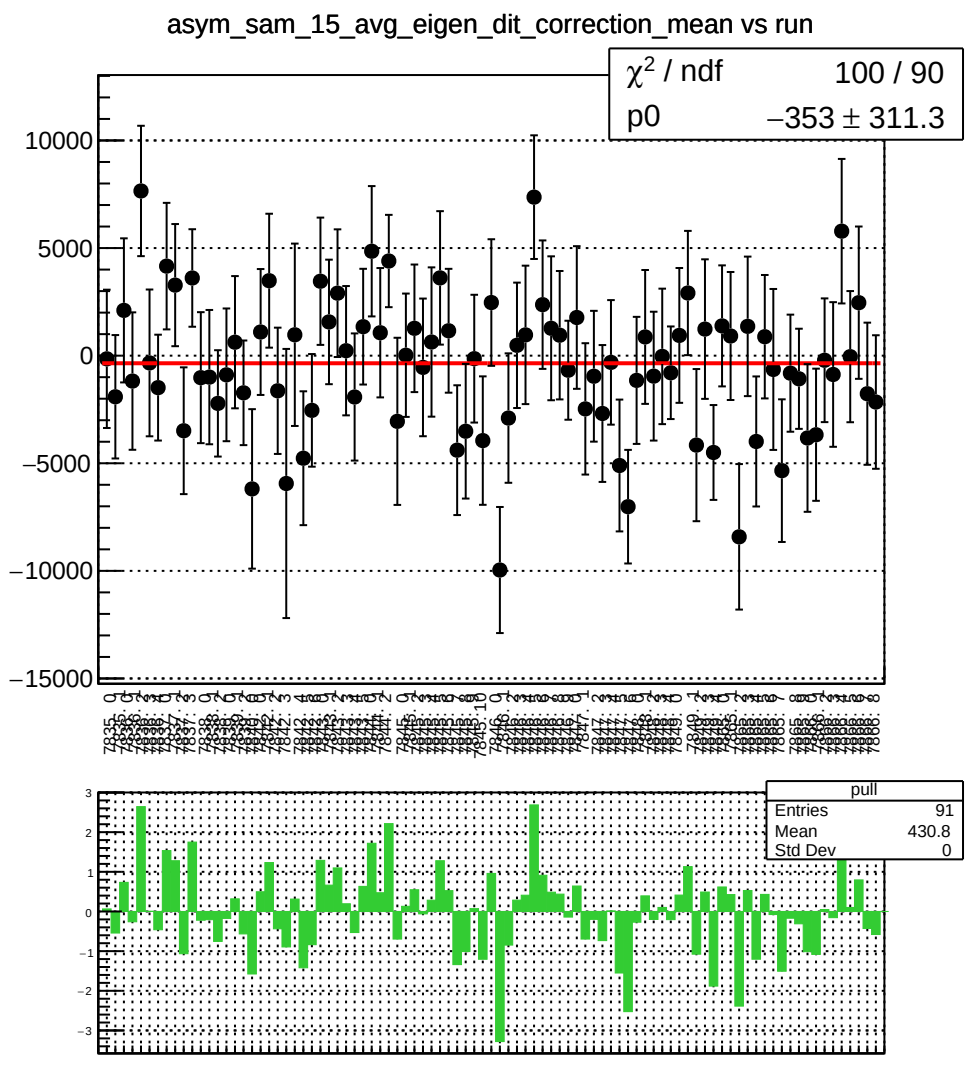

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 100 / 90
p0 −353 ± 311.3
pull
Entries 91
Mean 430.8
Std Dev 0

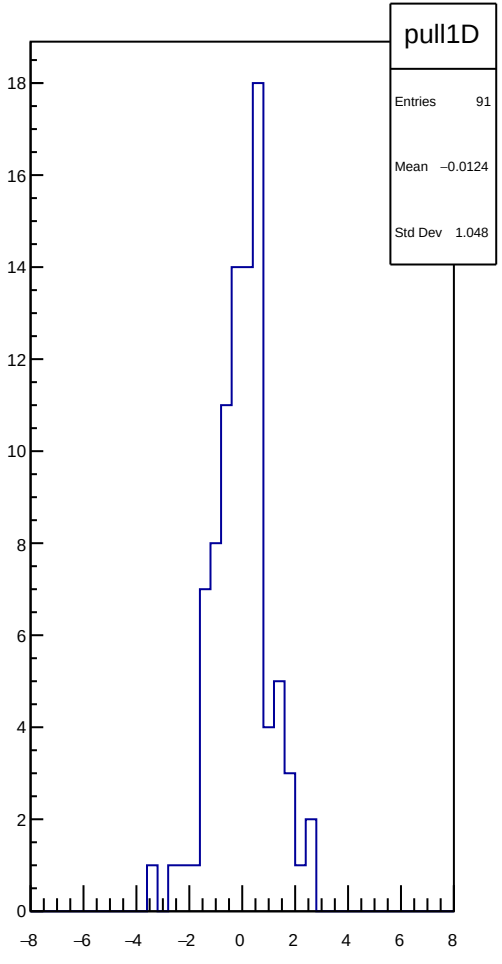

pull1D
Entries 91
Mean −0.0124
Std Dev 1.048

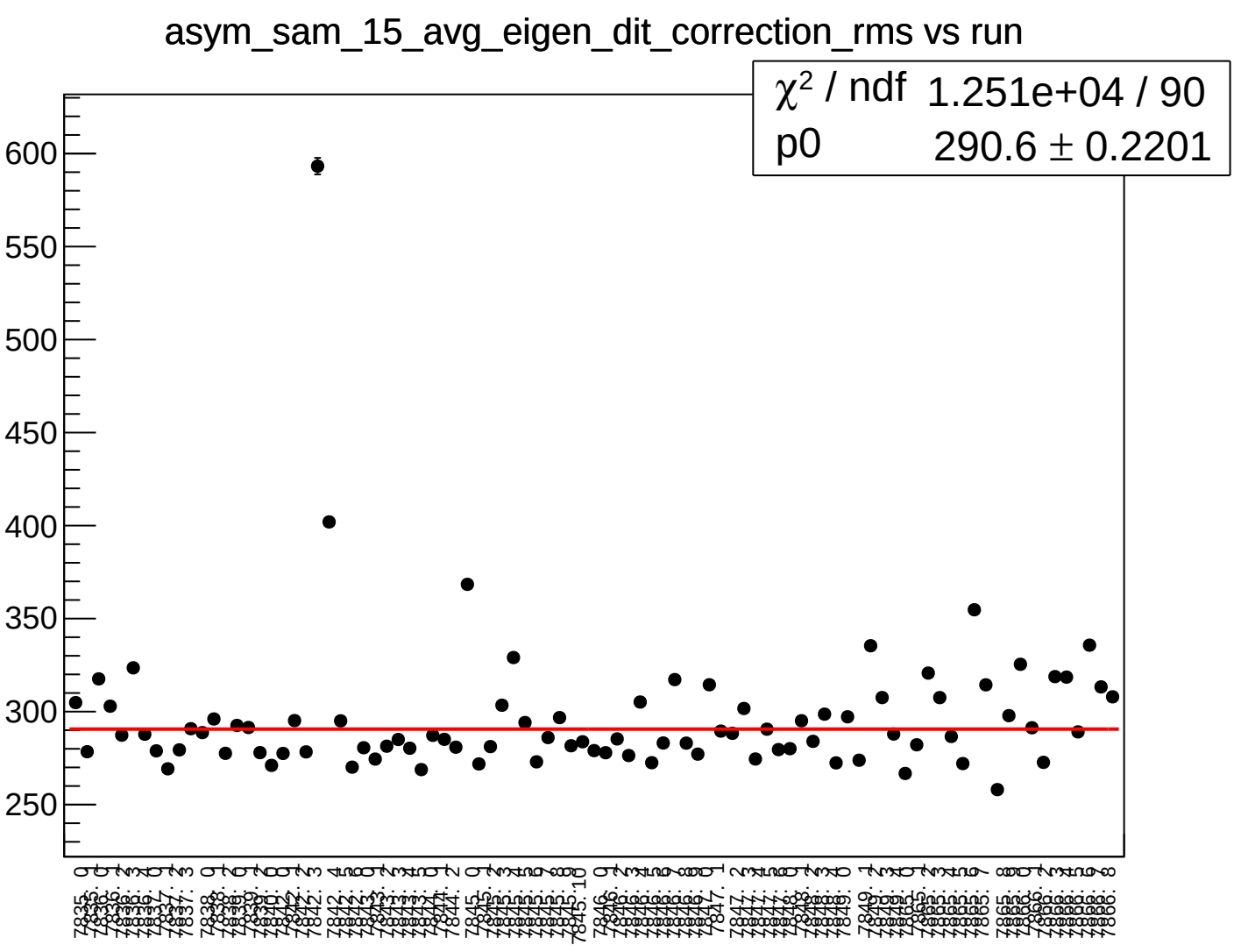

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.251e+04 / 90
p0 290.6 ± 0.2201
600
550
500
450
400
350
300
250

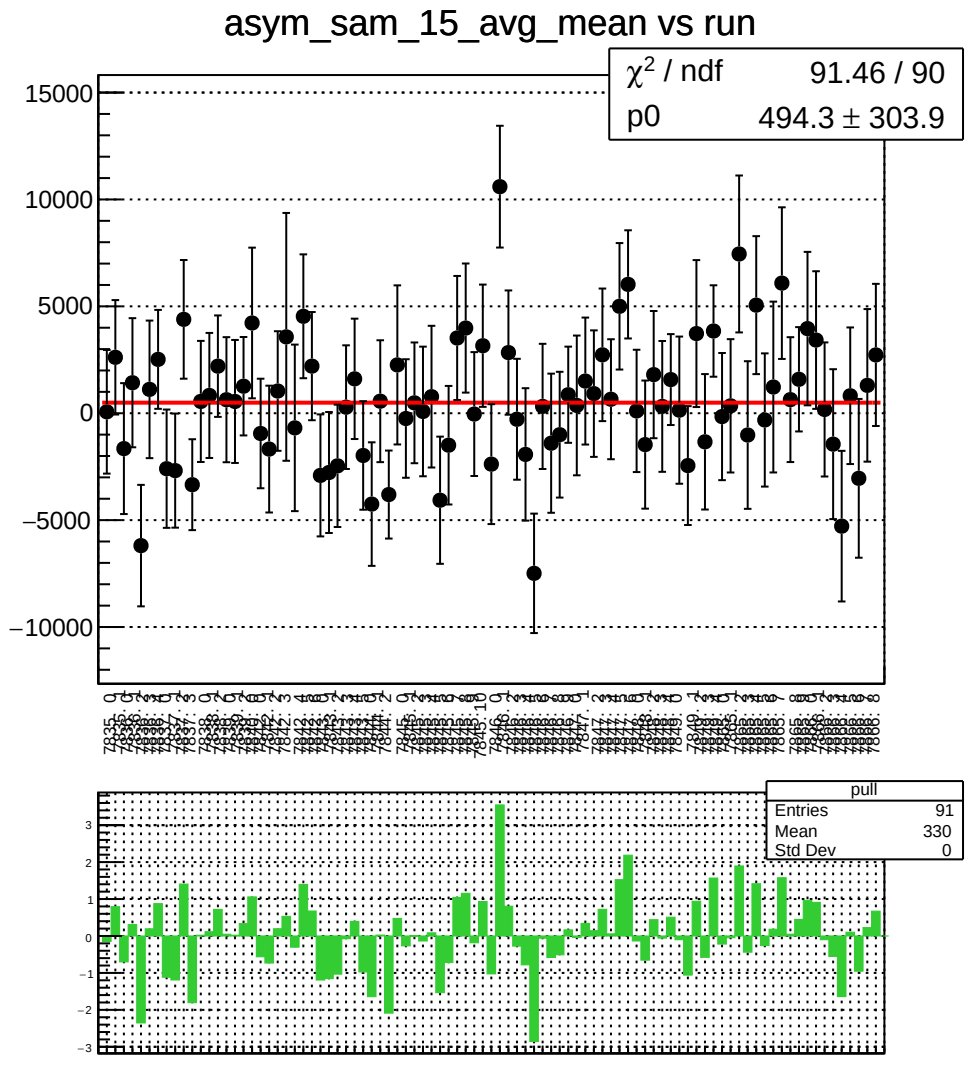

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.77 / 90
p0 173.2 ± 84.88
pull
Entries 91
Mean 228.6
Std Dev 0
pull1D
Entries 91
Mean −0.01177
Std Dev 1.01

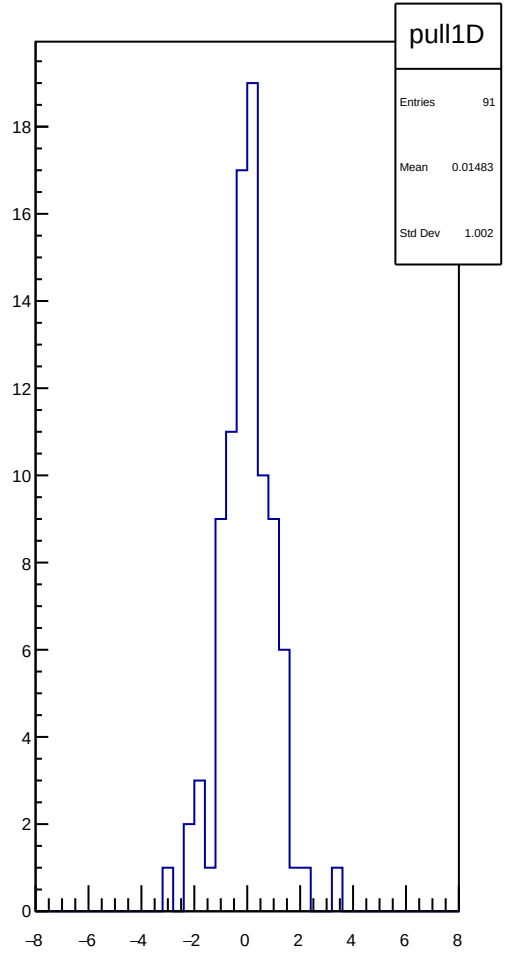

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.004e+04 / 90
p0 79.06 ± 0.06002
150
140
130
120
110
100
90
80
70

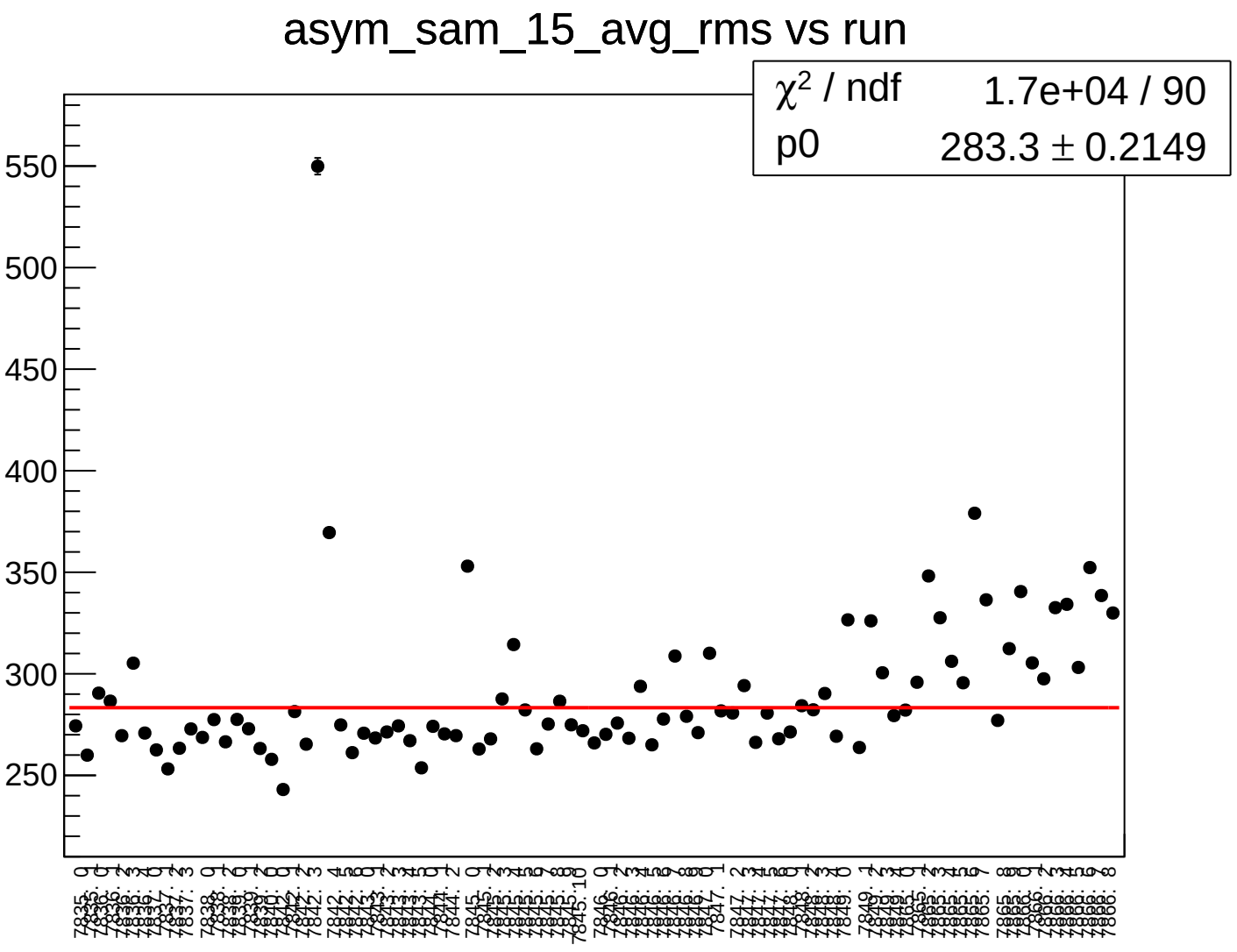

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 100 / 90
p0 −353 ± 311.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 430.8
Std Dev 0
3
2
1
0
−1
−2
−3

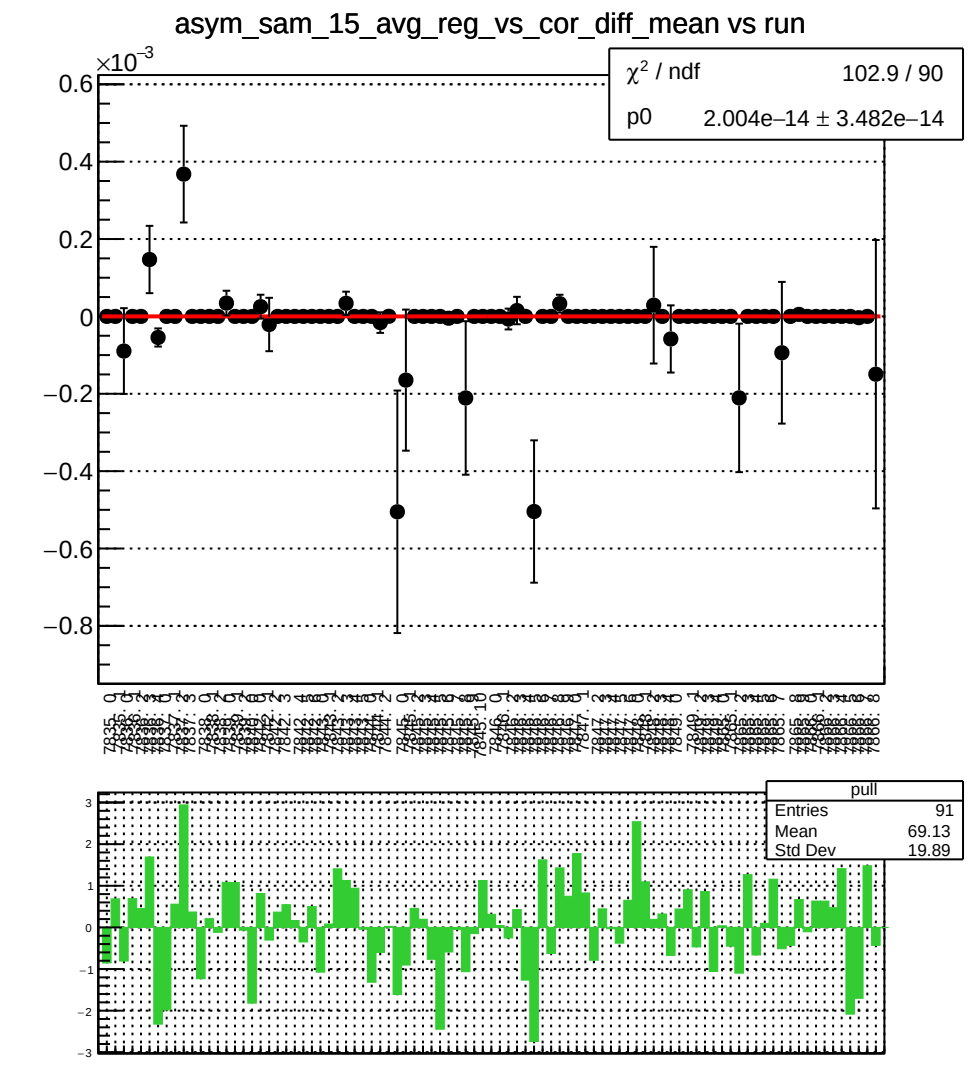

pull1D
Entries 91
Mean −0.0124
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

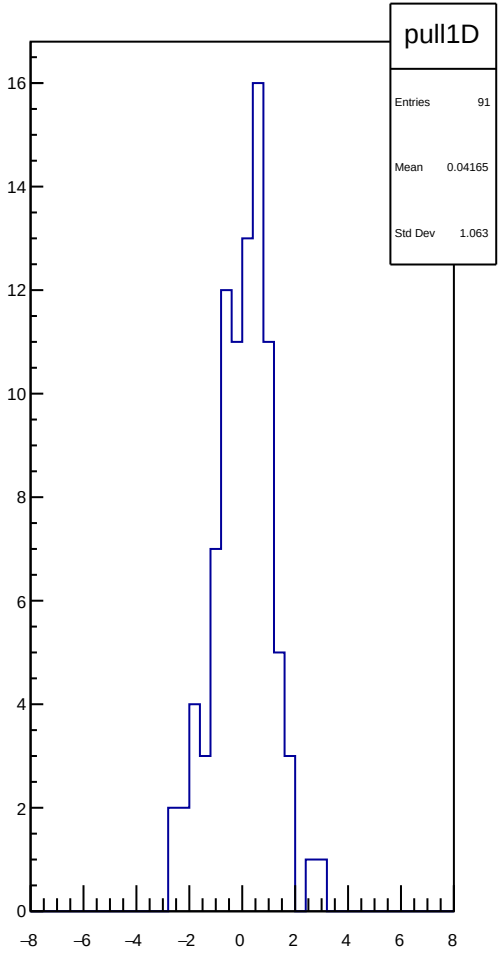

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.251e+04 / 90
p0 290.6 ± 0.2201
600
550
500
450
400
350
300
250

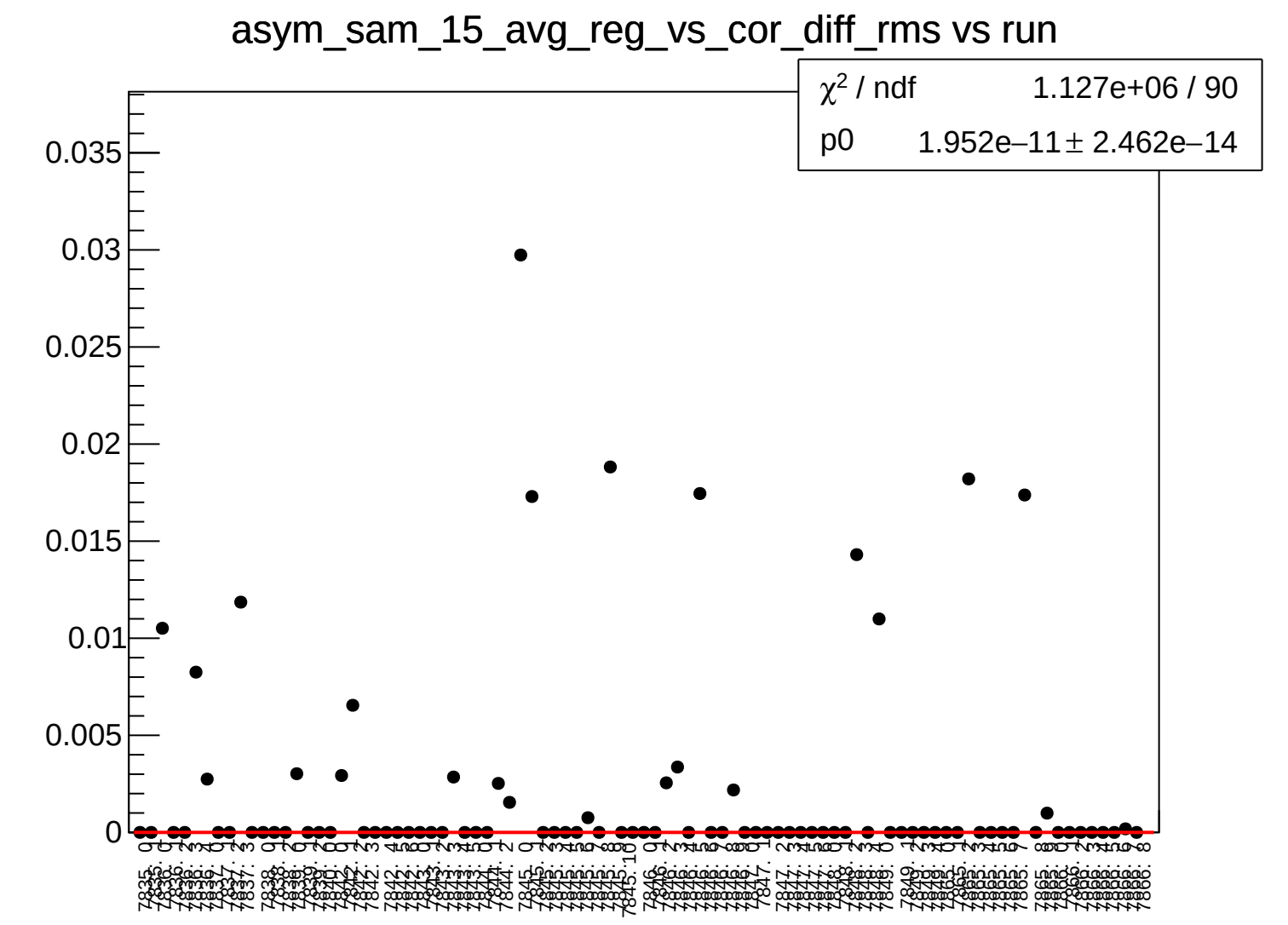

asym_sam_15_avg_mean vs run
χ² / ndf 91.46 / 90
p0 494.3 ± 303.9
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 330
Std Dev 0
3
2
1
0
−1
−2
−3

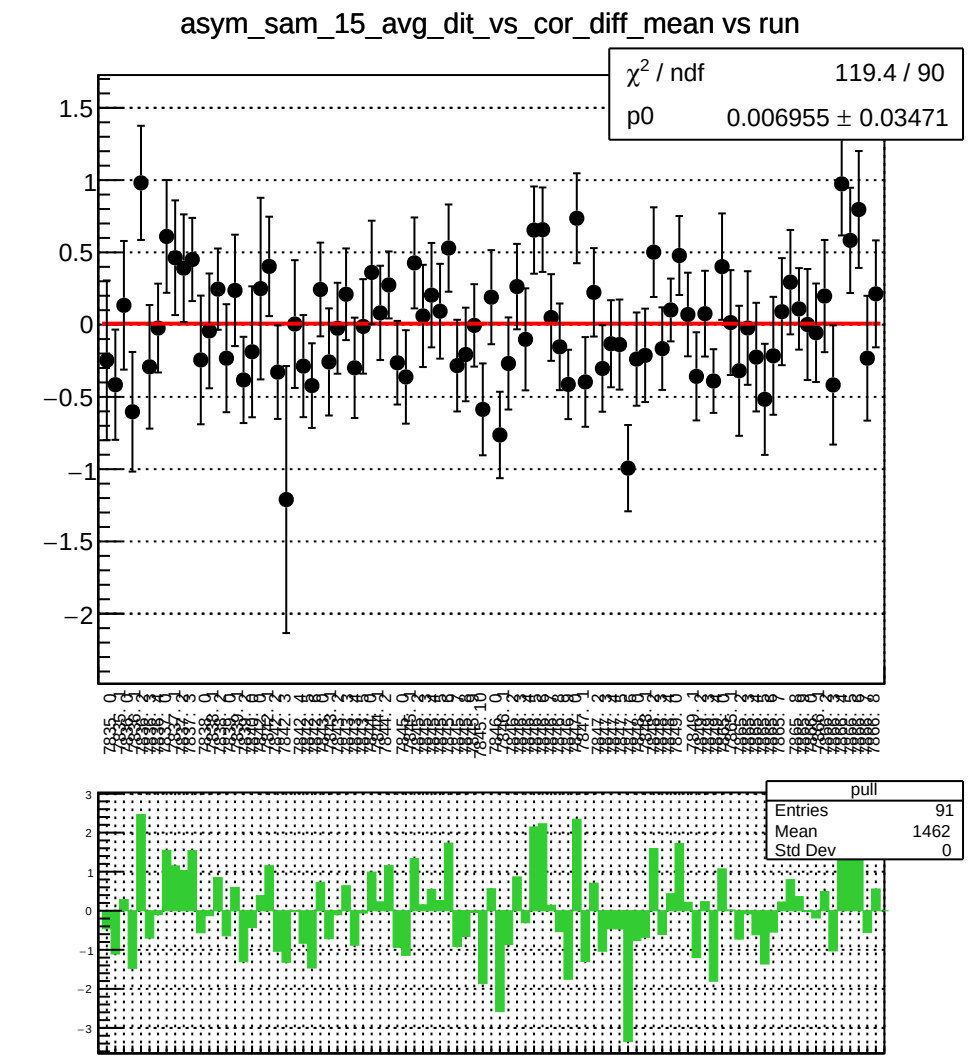

pull1D
Entries 91
Mean 0.01483
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

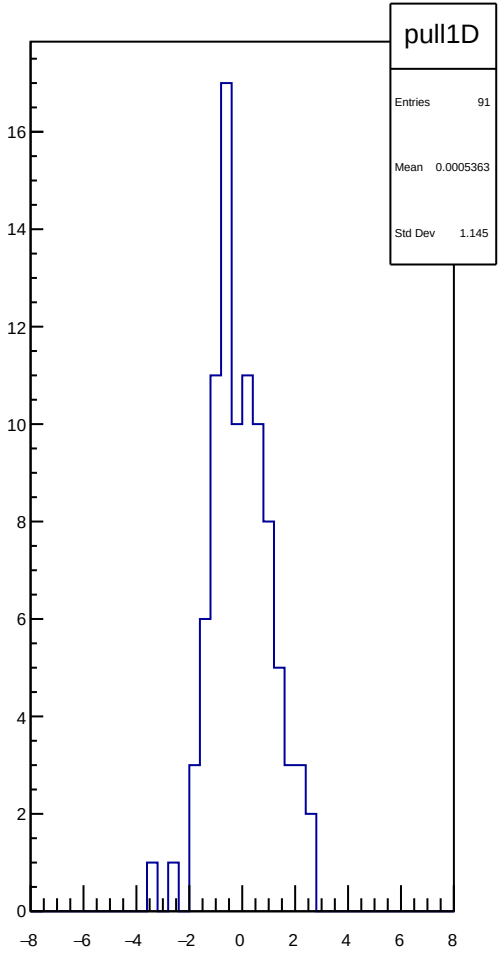

asym_sam_15_avg_rms vs run
χ² / ndf 1.7e+04 / 90
p0 283.3 ± 0.2149
550
500
450
400
350
300
250

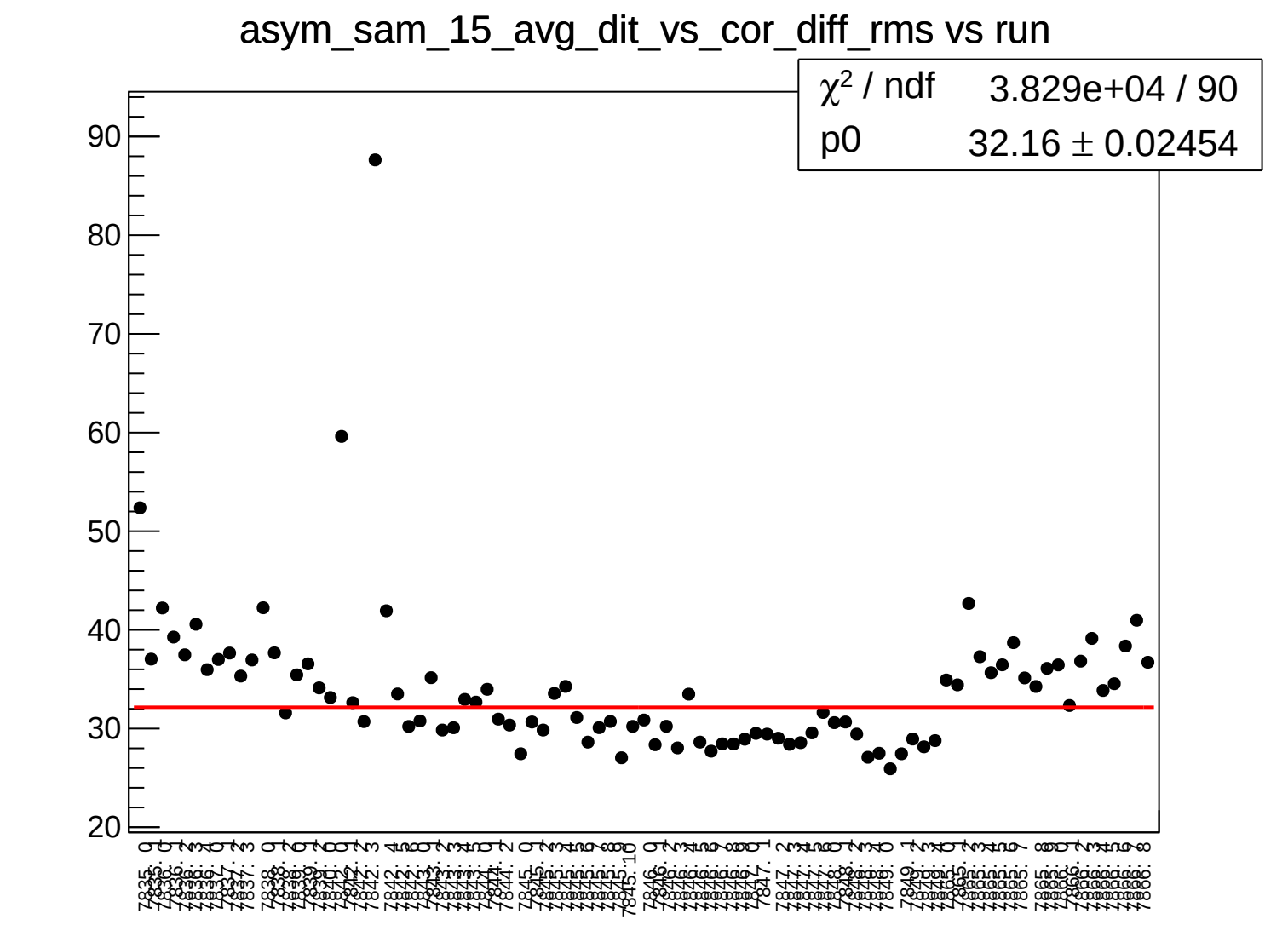

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 102.9 / 90
p0 2.004e−14 ± 3.482e−14
pull
Entries 91
Mean 69.13
Std Dev 19.89

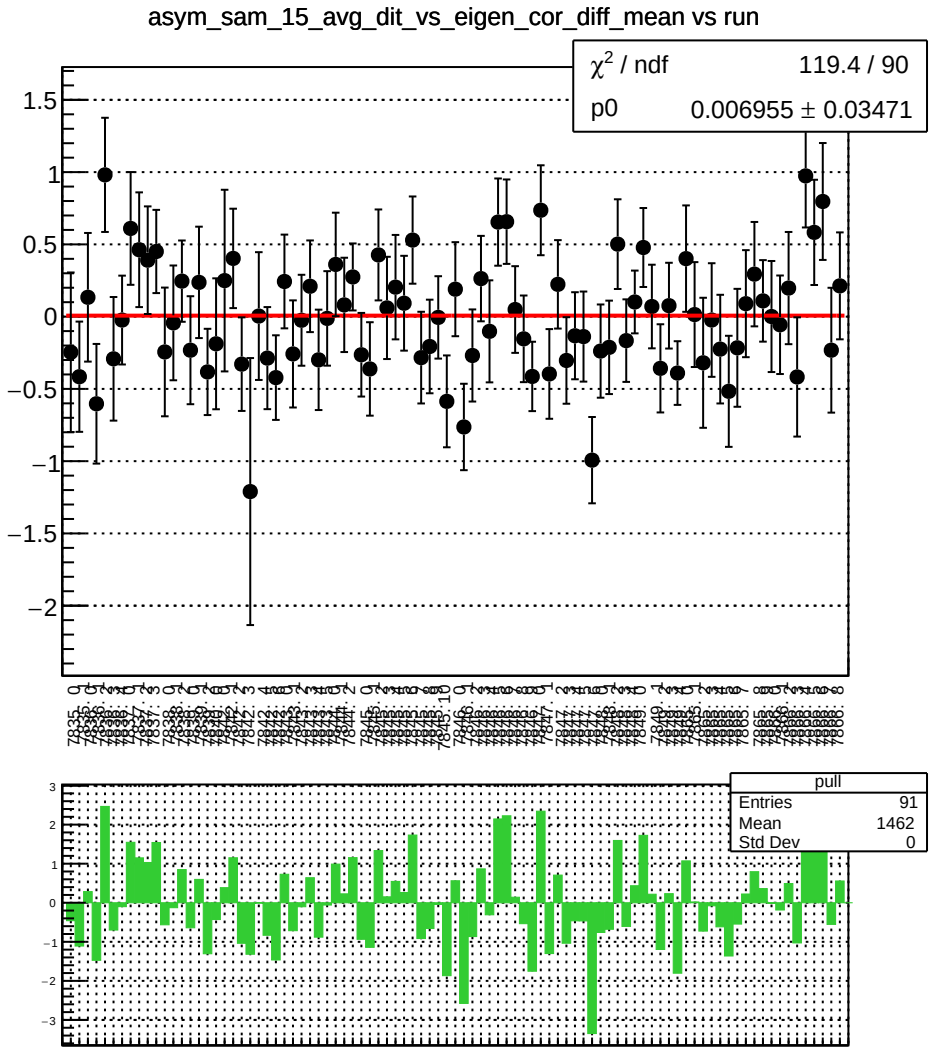

pull1D
Entries 91
Mean 0.04165
Std Dev 1.063

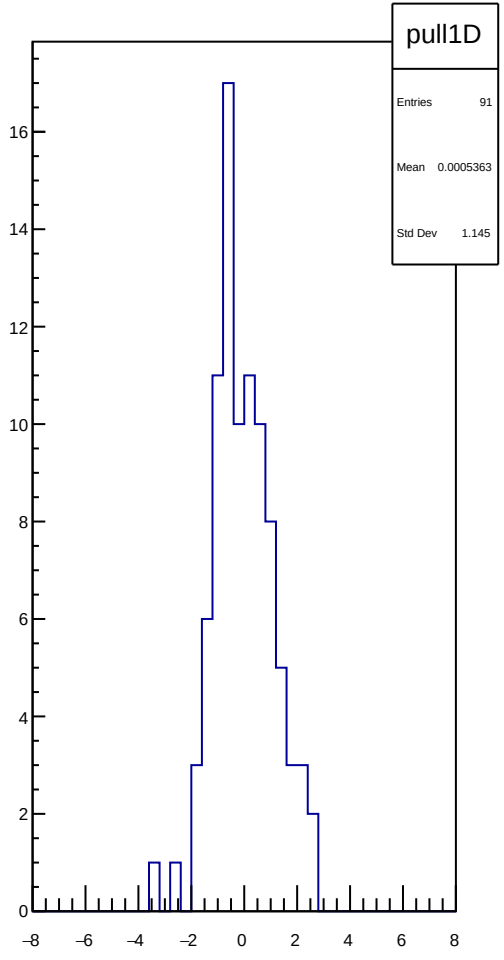

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.127e+06 / 90
p0 1.952e−11 ± 2.462e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

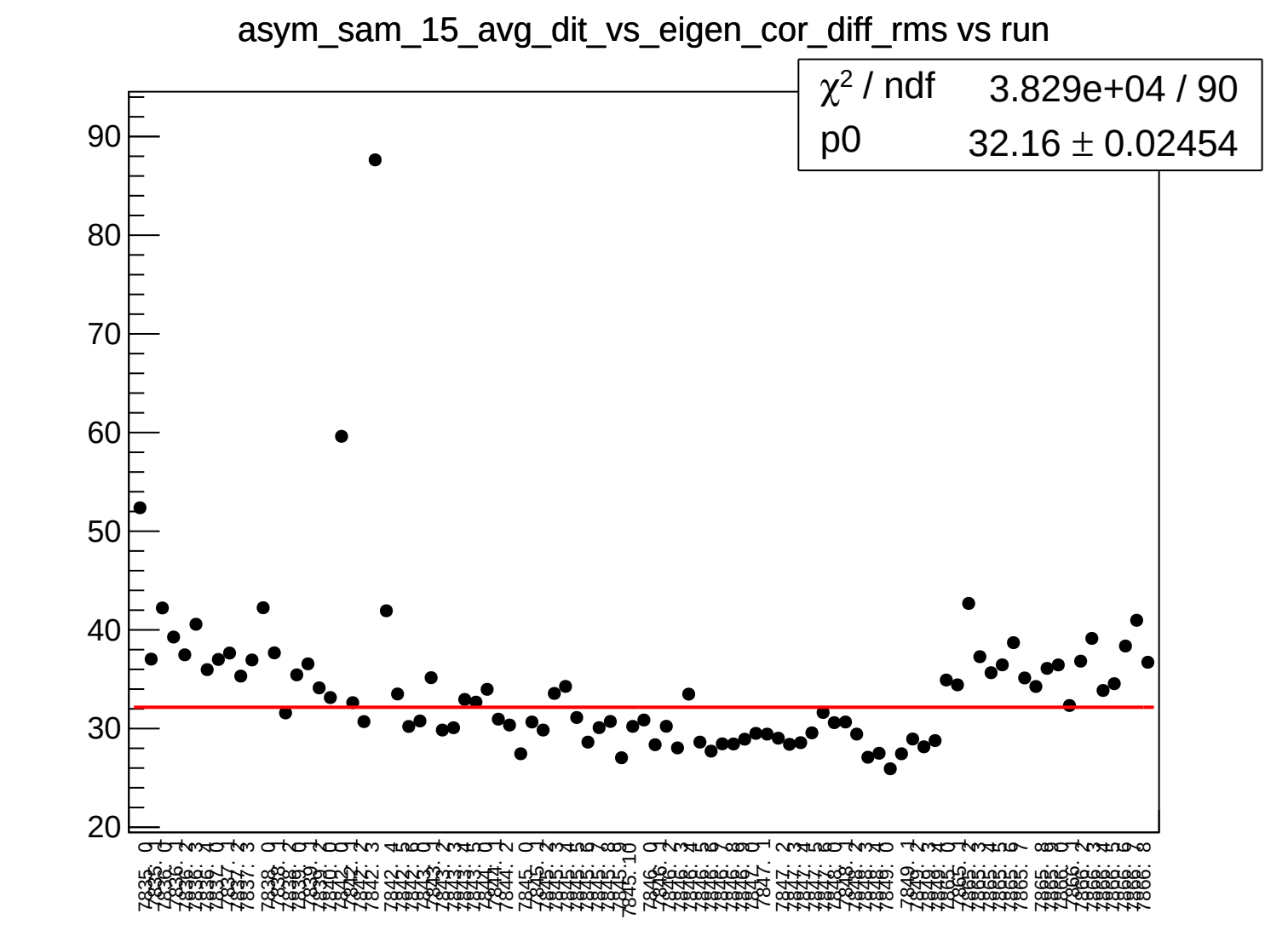

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 0.006955 ± 0.03471
pull
Entries 91
Mean 1462
Std Dev 0

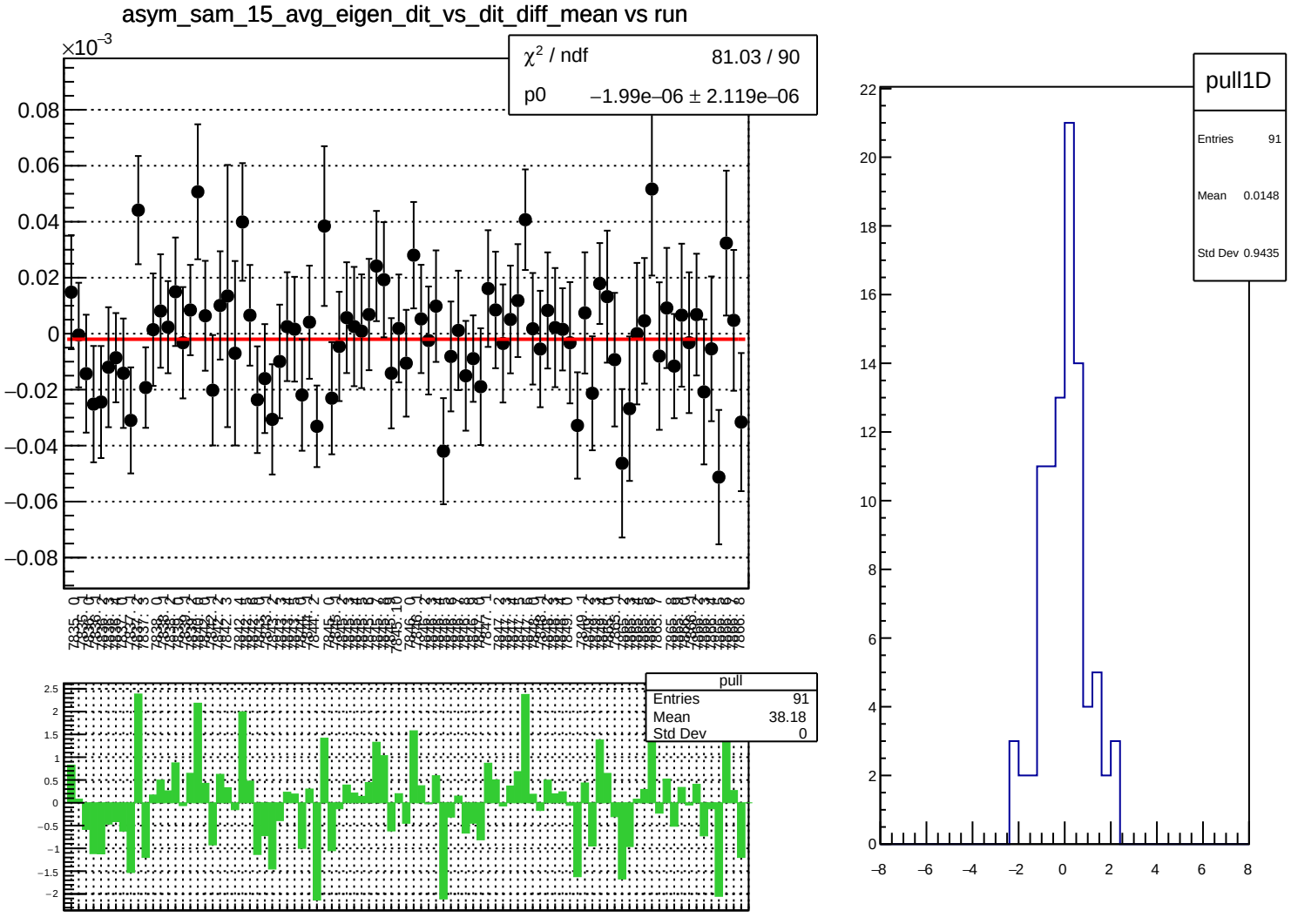

pull1D
Entries 91
Mean 0.0005363
Std Dev 1.145

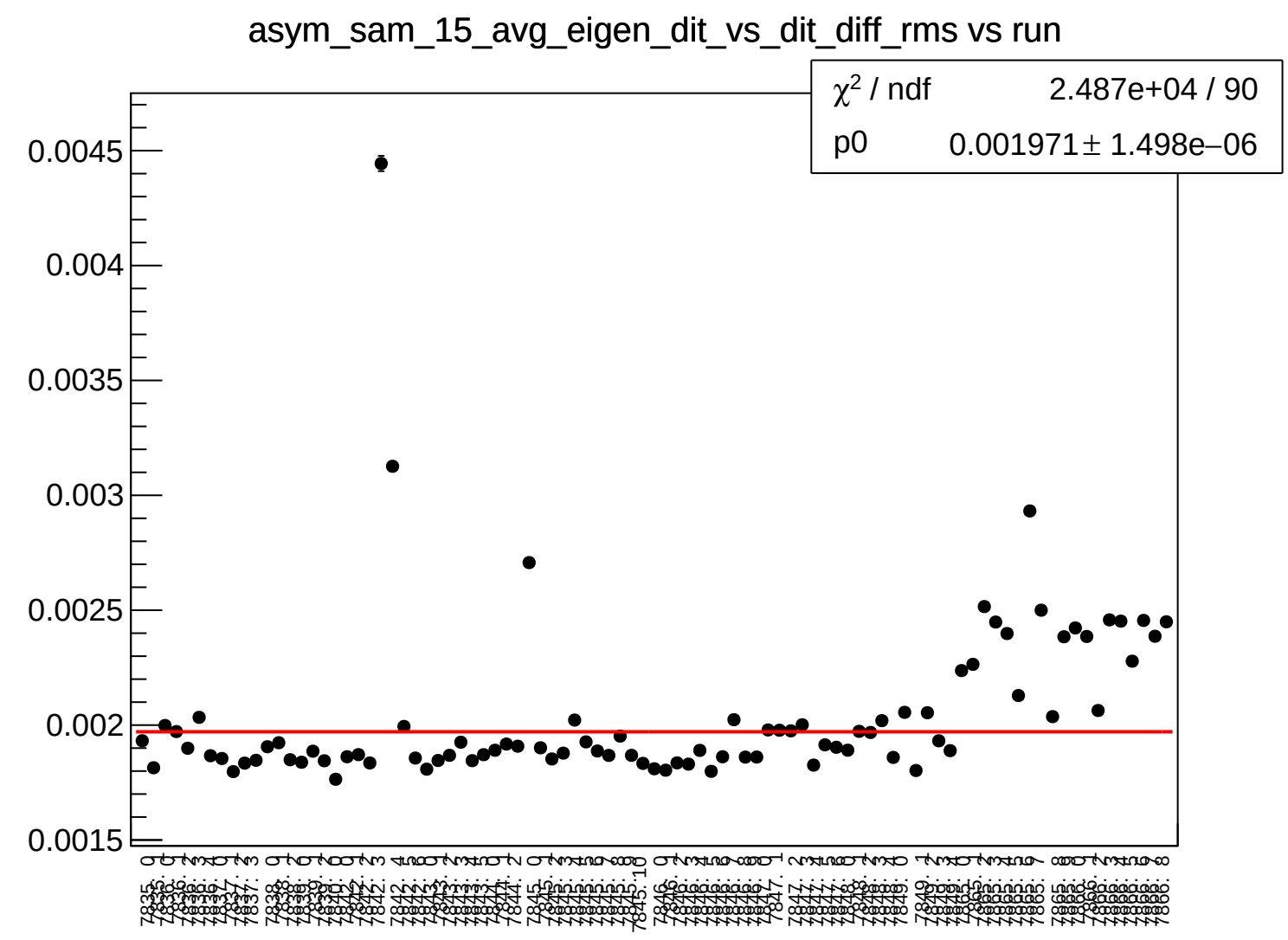

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.829e+04 / 90
p0 32.16 ± 0.02454
90
80
70
60
50
40
30
20

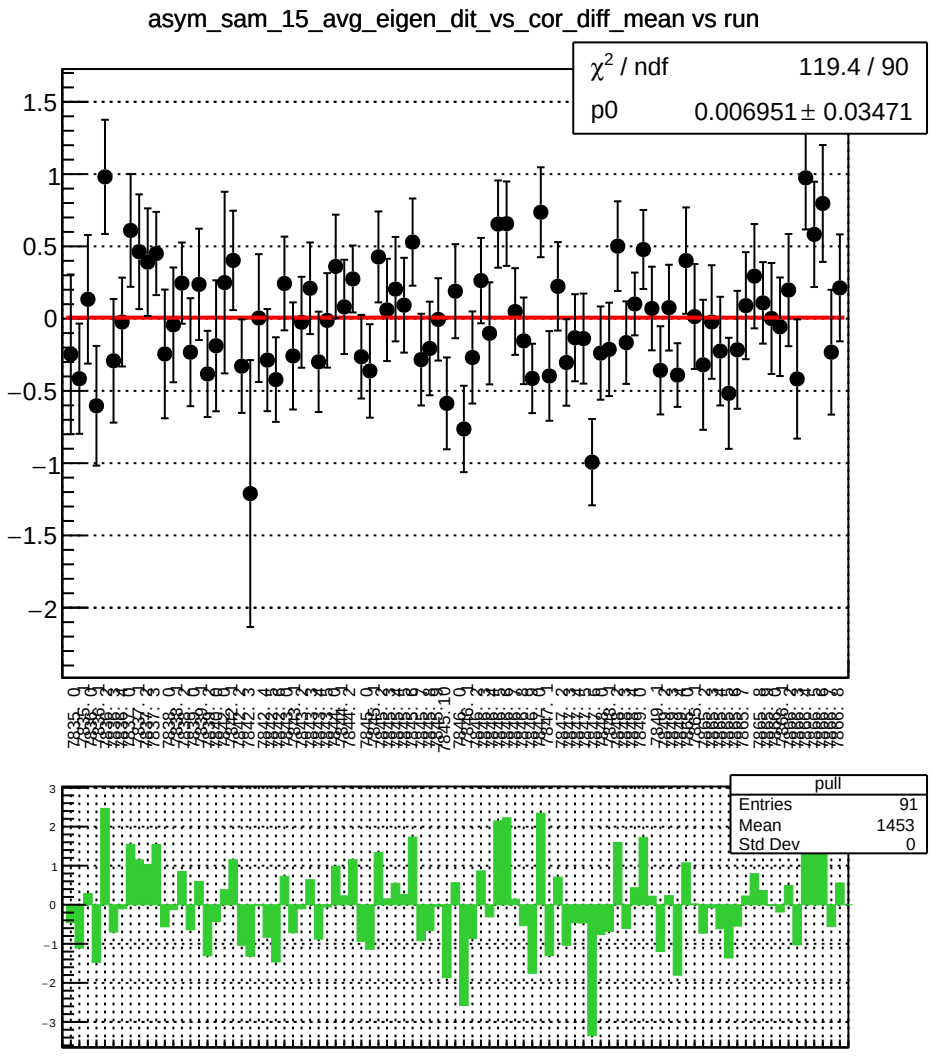

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 0.006955 ± 0.03471
pull
Entries 91
Mean 1462
Std Dev 0

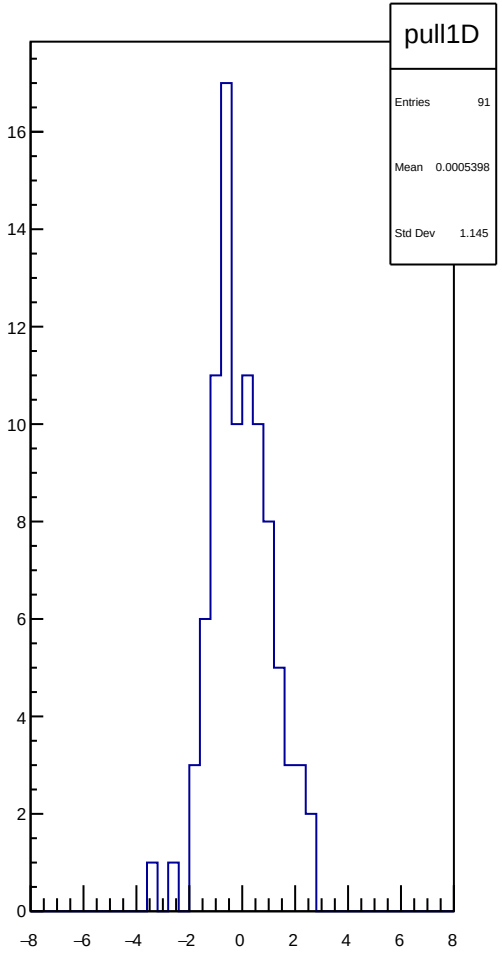

pull1D
Entries 91
Mean 0.0005363
Std Dev 1.145

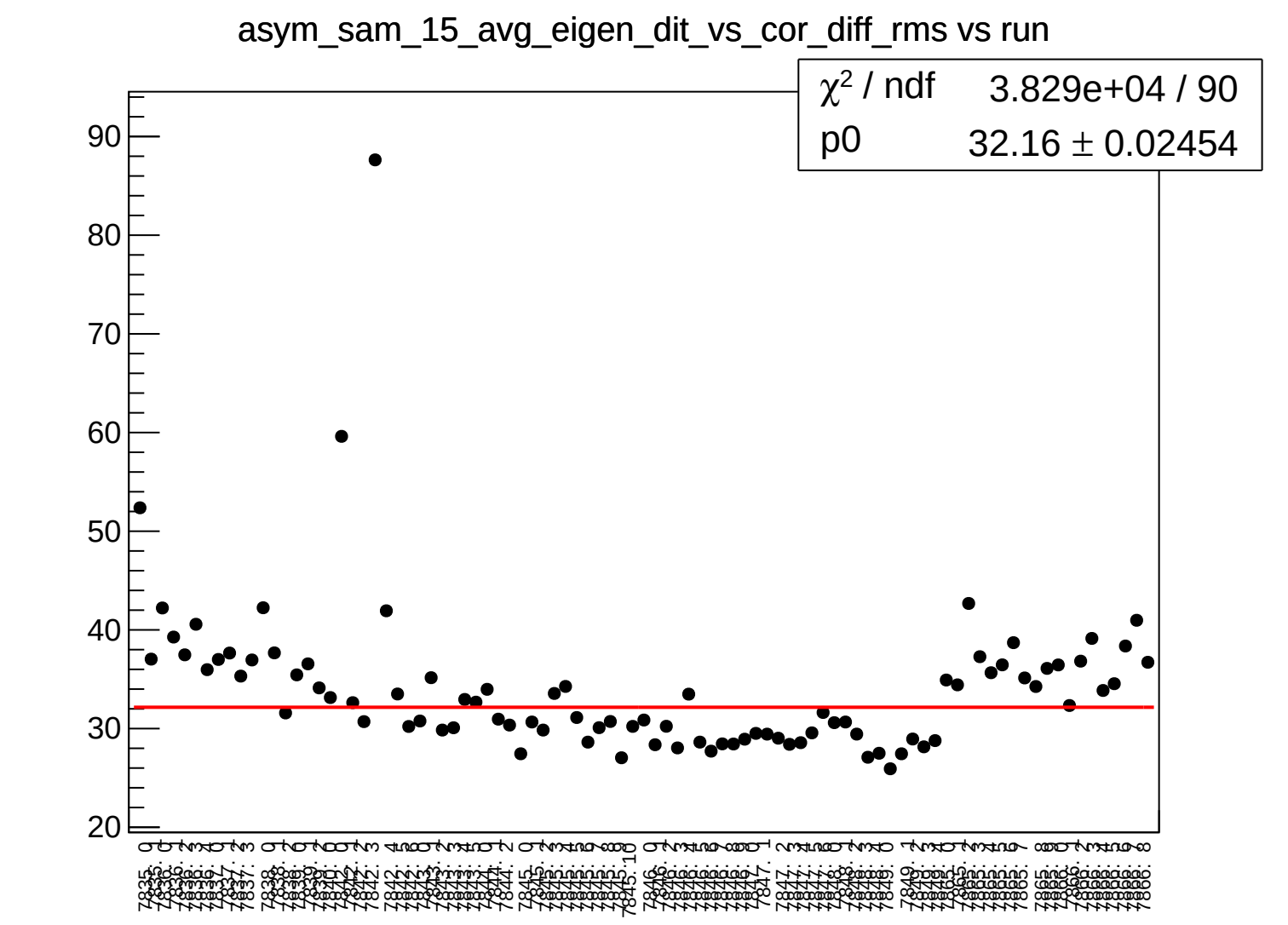

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.829e+04 / 90
p0 32.16 ± 0.02454
90
80
70
60
50
40
30
20

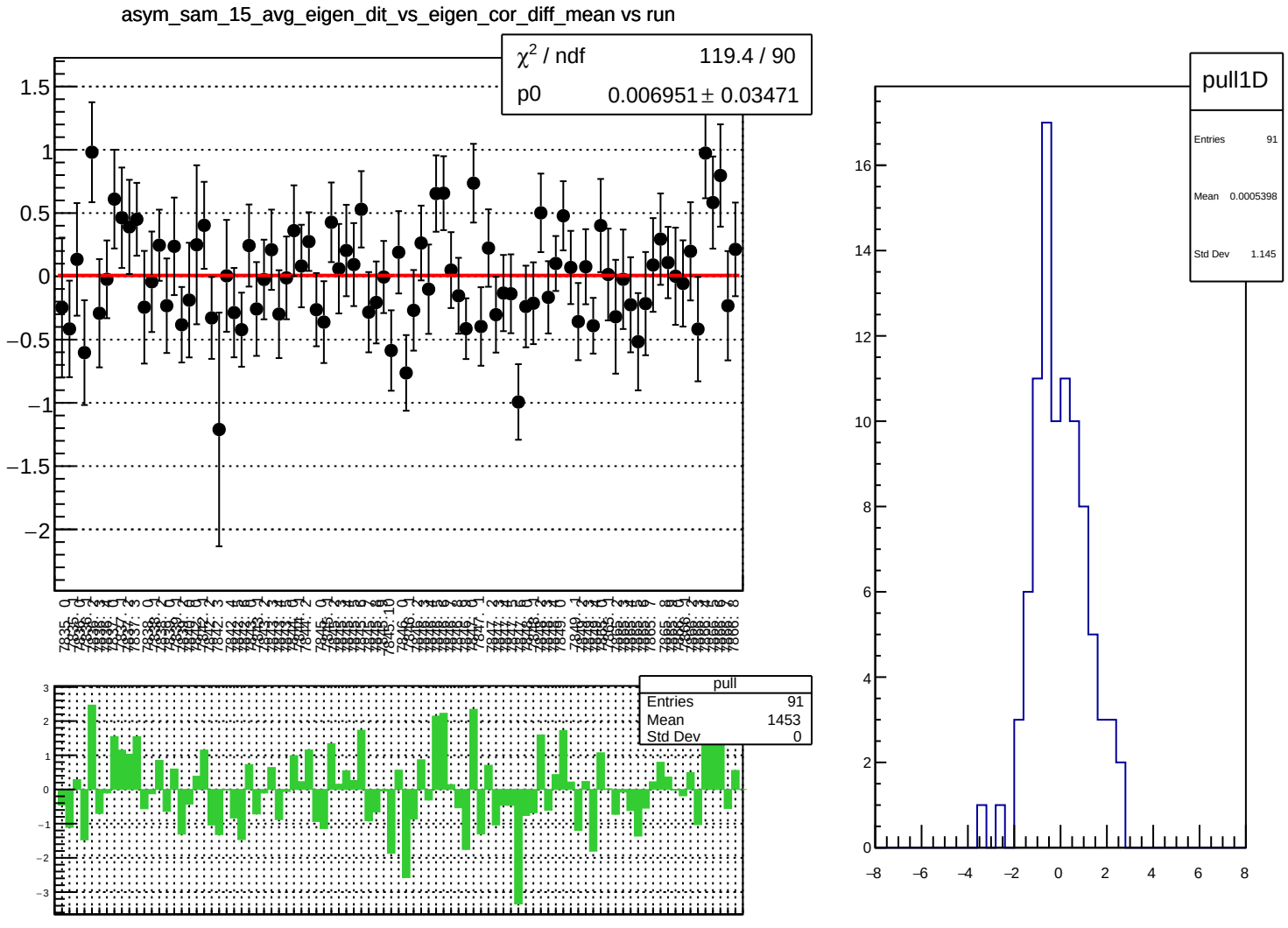

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.03 / 90
p0 −1.99e−06 ± 2.119e−06
pull
Entries 91
Mean 38.18
Std Dev 0
pull1D
Entries 91
Mean 0.0148
Std Dev 0.9435

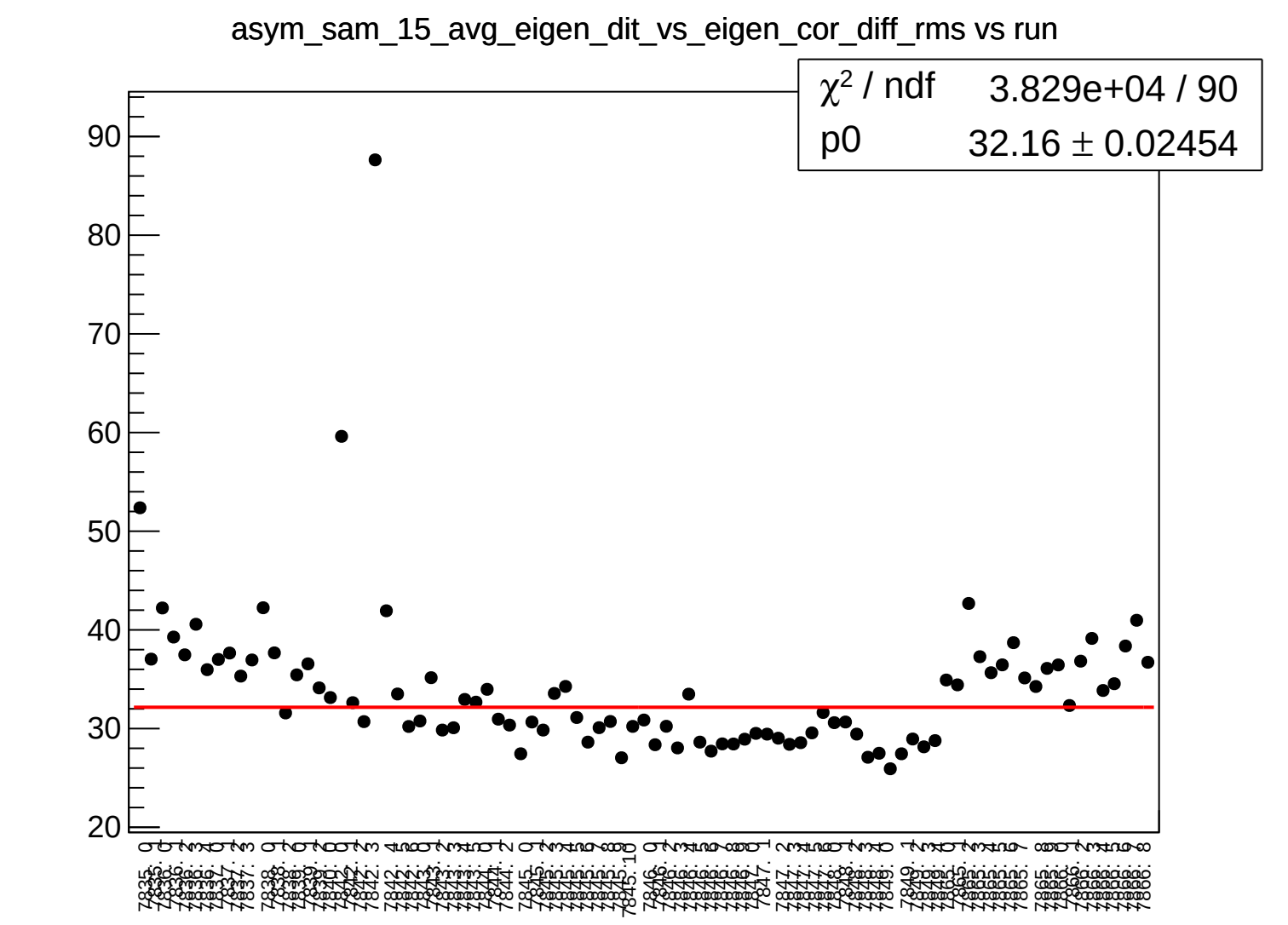

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.487e+04 / 90
p0 0.001971 ± 1.498e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

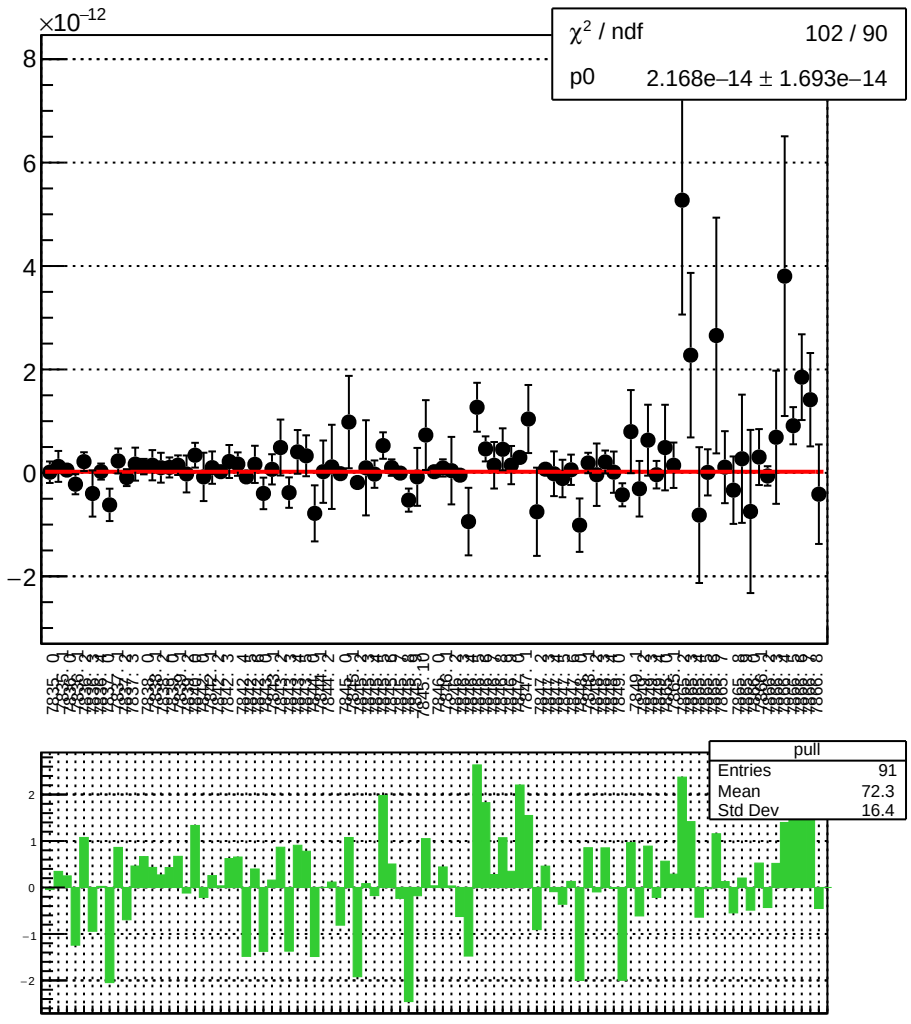

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 0.006951 ± 0.03471
pull
Entries 91
Mean 1453
Std Dev 0

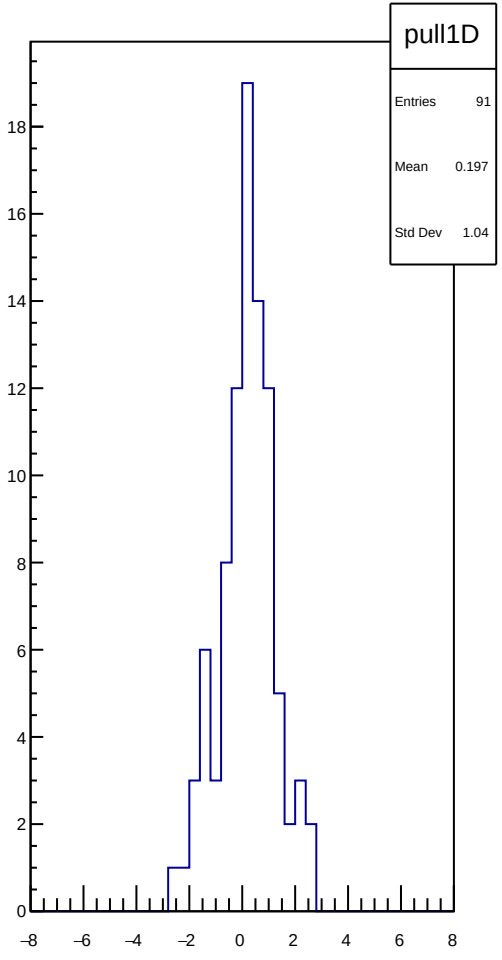

pull1D
Entries 91
Mean 0.0005398
Std Dev 1.145

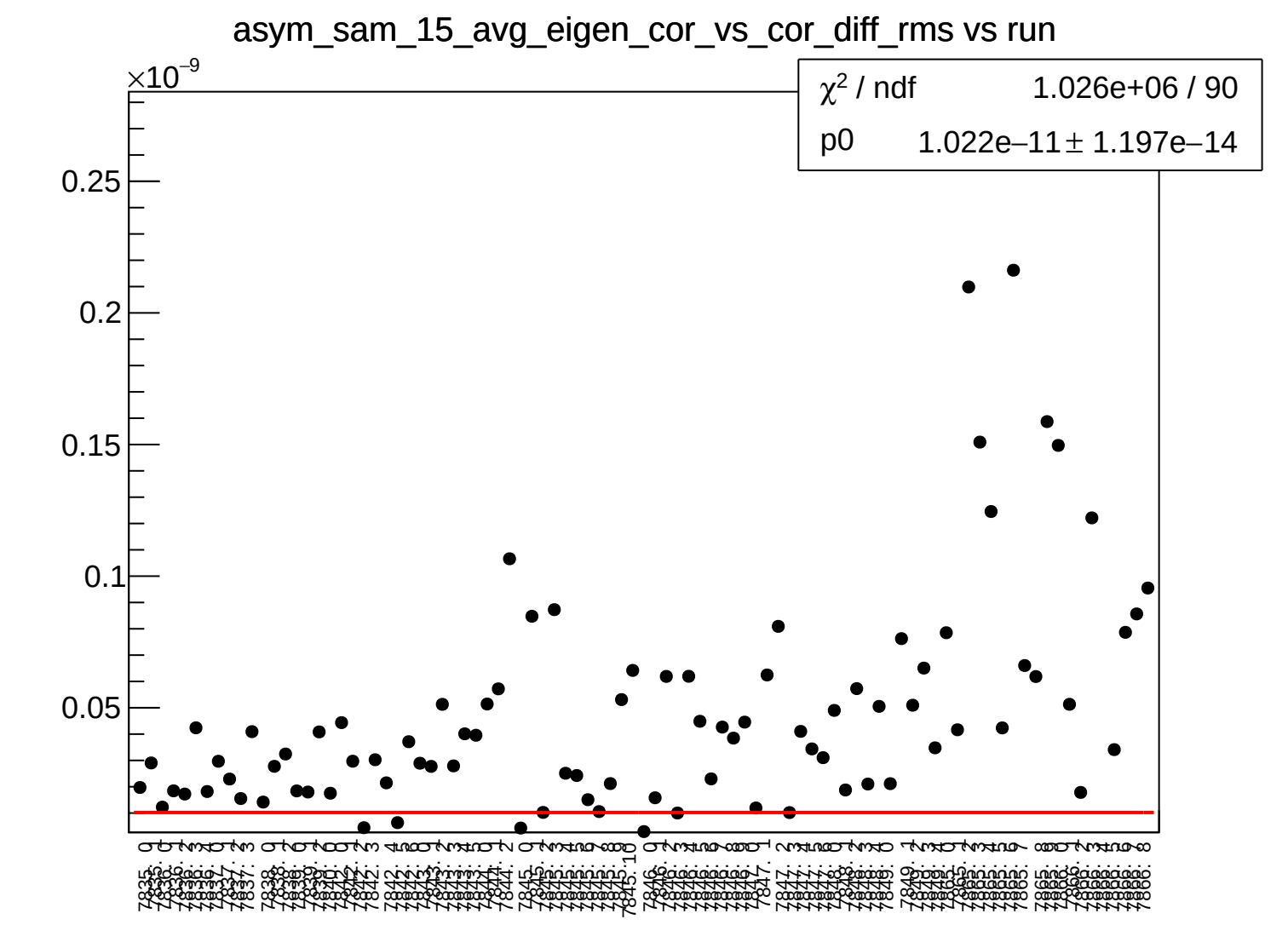

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.829e+04 / 90
p0 32.16 ± 0.02454
90
80
70
60
50
40
30
20

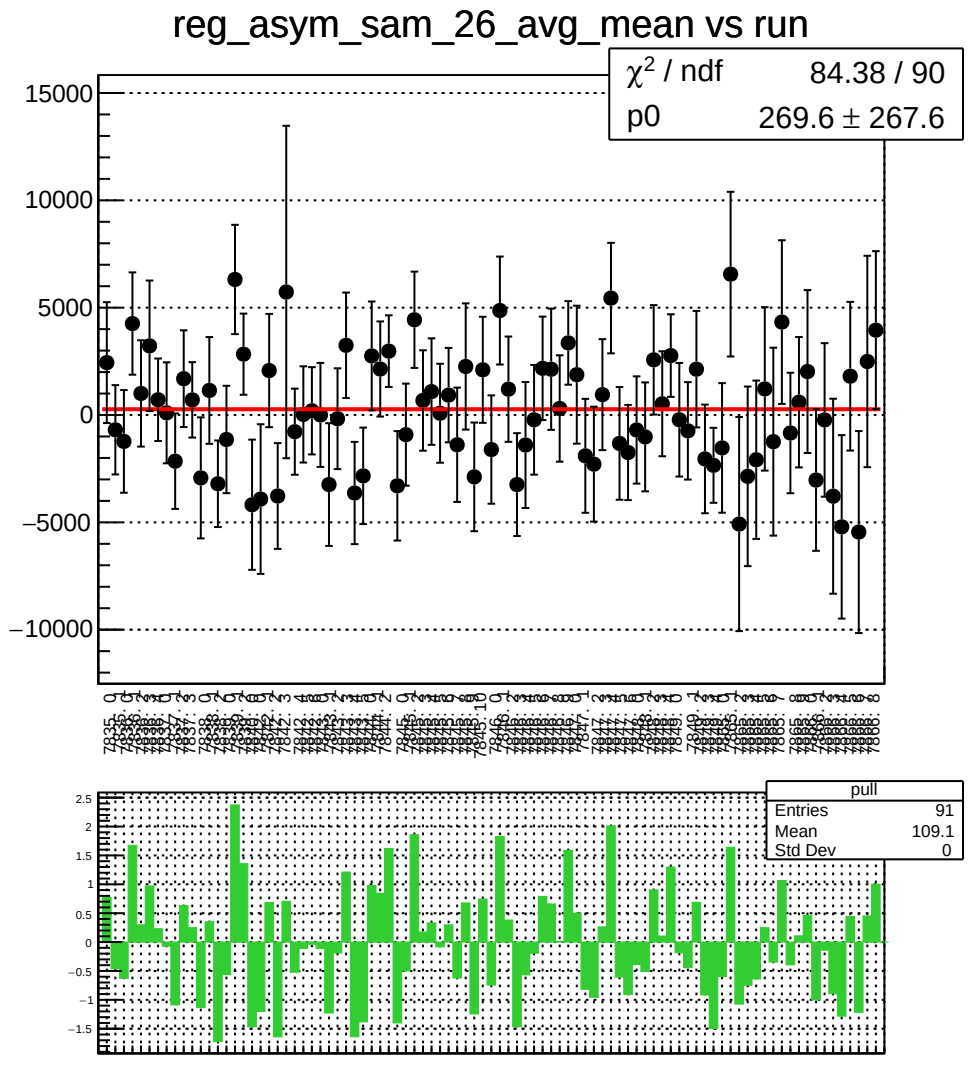

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 0.006951 ± 0.03471
pull
Entries 91
Mean 1453
Std Dev 0
pull1D
Entries 91
Mean 0.0005398
Std Dev 1.145

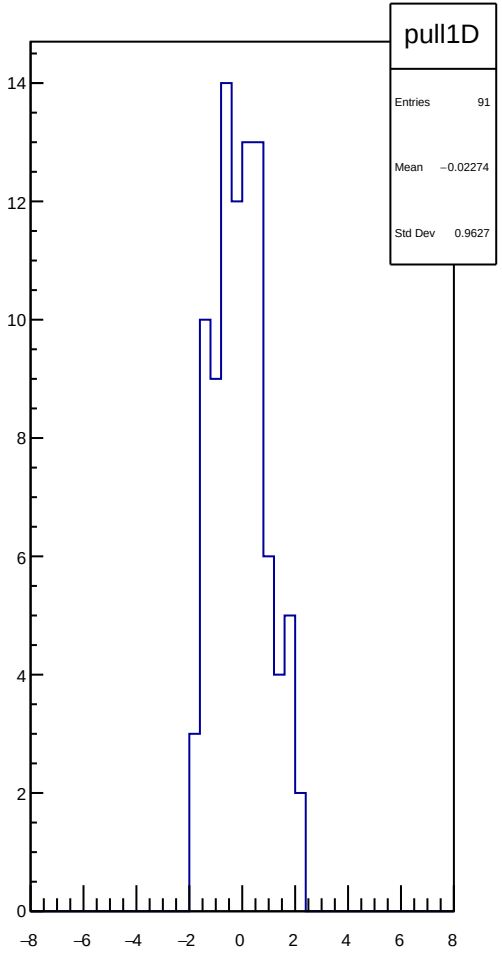

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.829e+04 / 90
p0 32.16 ± 0.02454
90
80
70
60
50
40
30
20

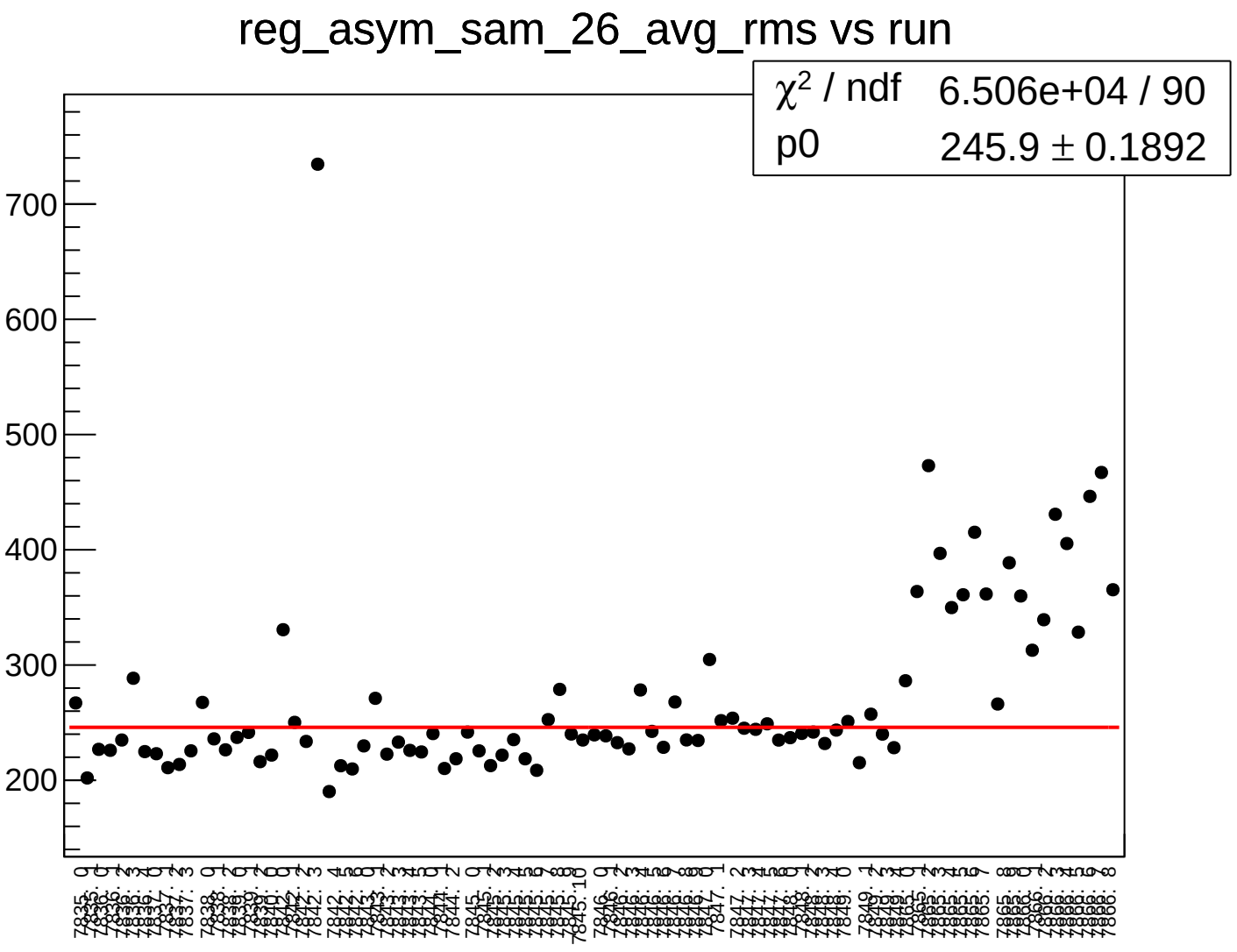

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102 / 90
p0 2.168e−14 ± 1.693e−14
pull
Entries 91
Mean 72.3
Std Dev 16.4

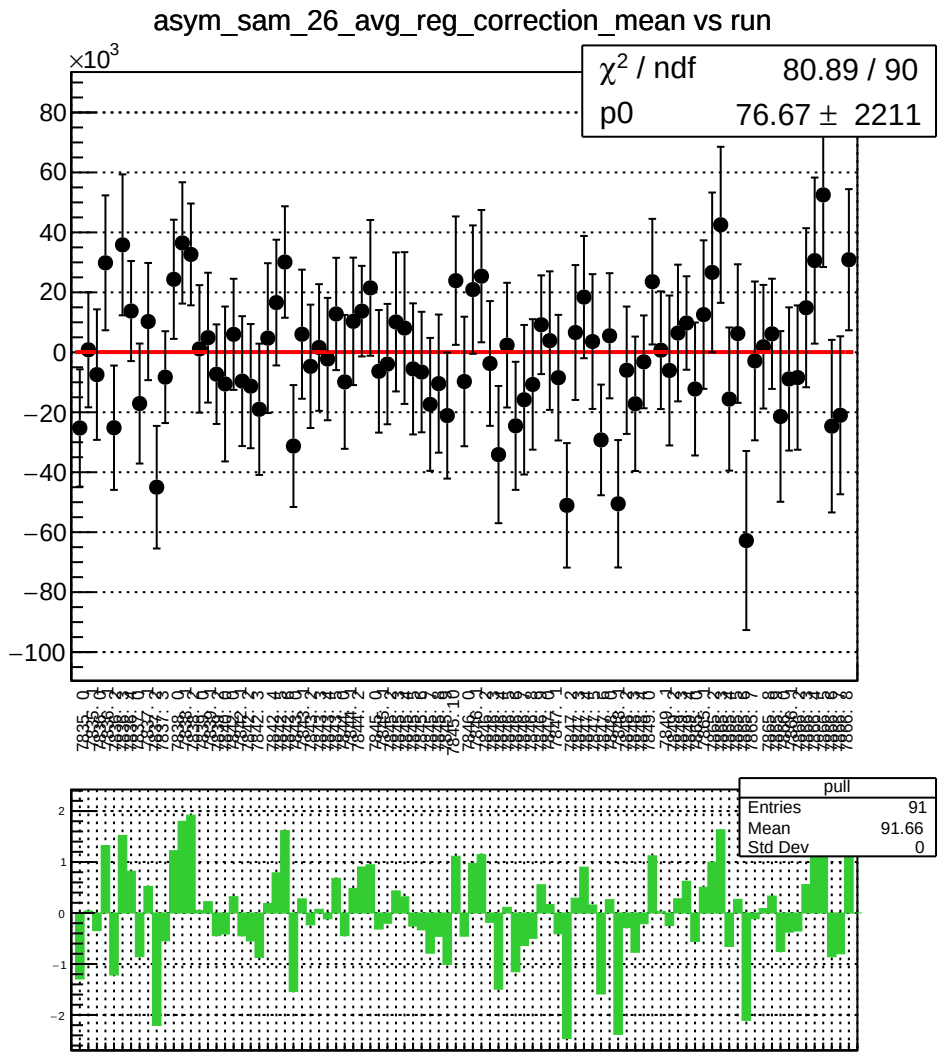

pull1D
Entries 91
Mean 0.197
Std Dev 1.04

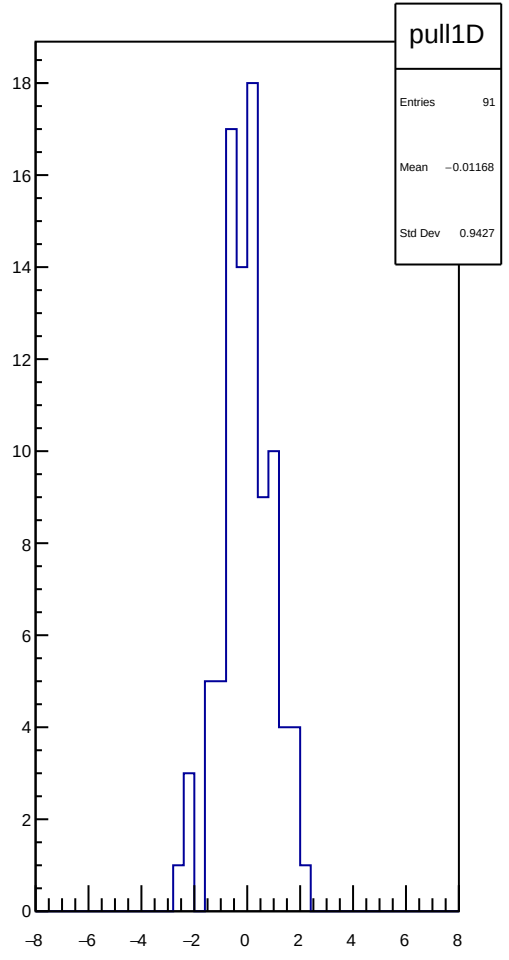

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.026e+06 / 90
p0 1.022e−11 ± 1.197e−14
0.25
0.2
0.15
0.1
0.05

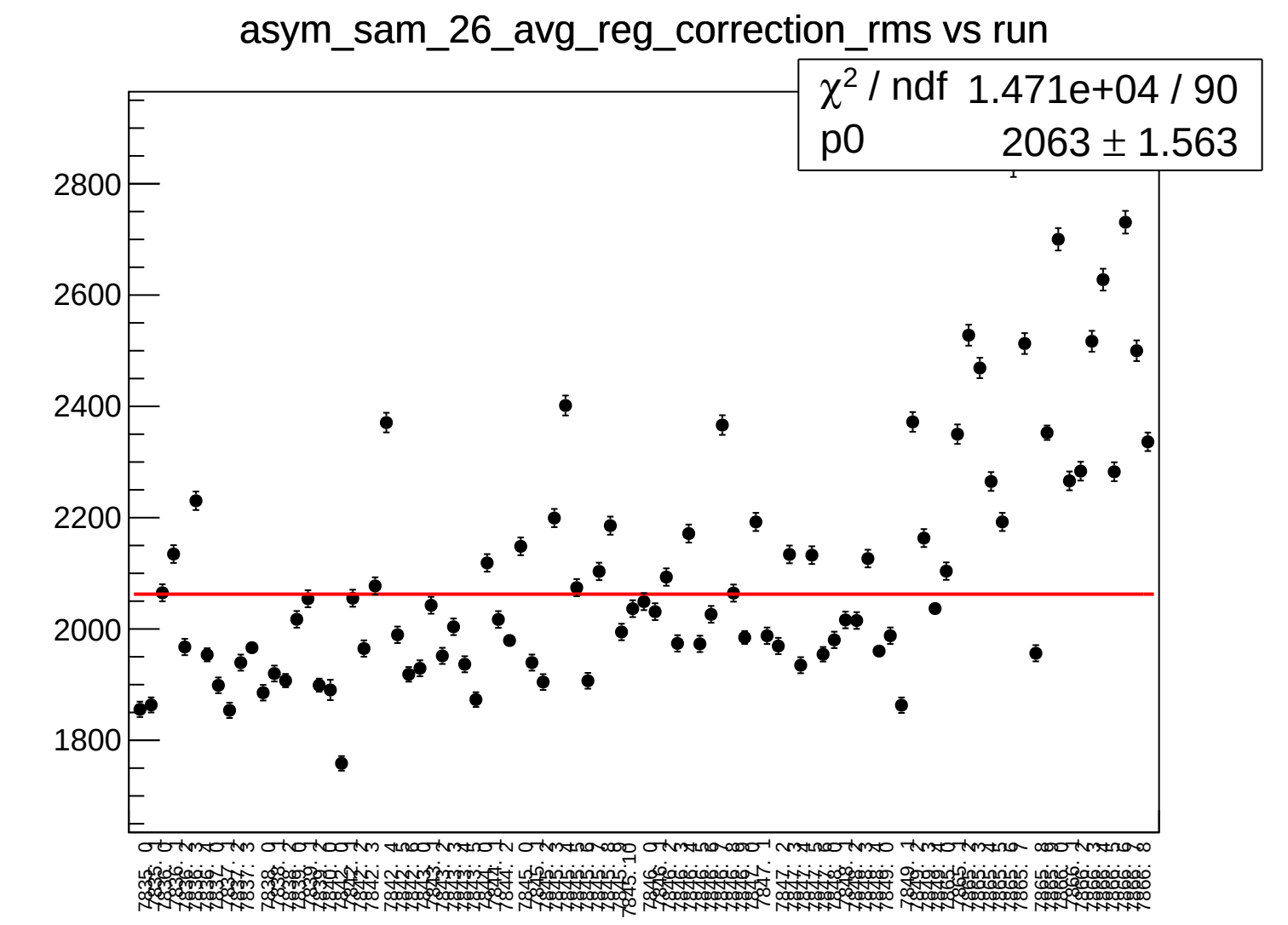

reg_asym_sam_26_avg_mean vs run
χ² / ndf 84.38 / 90
p0 269.6 ± 267.6
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 109.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

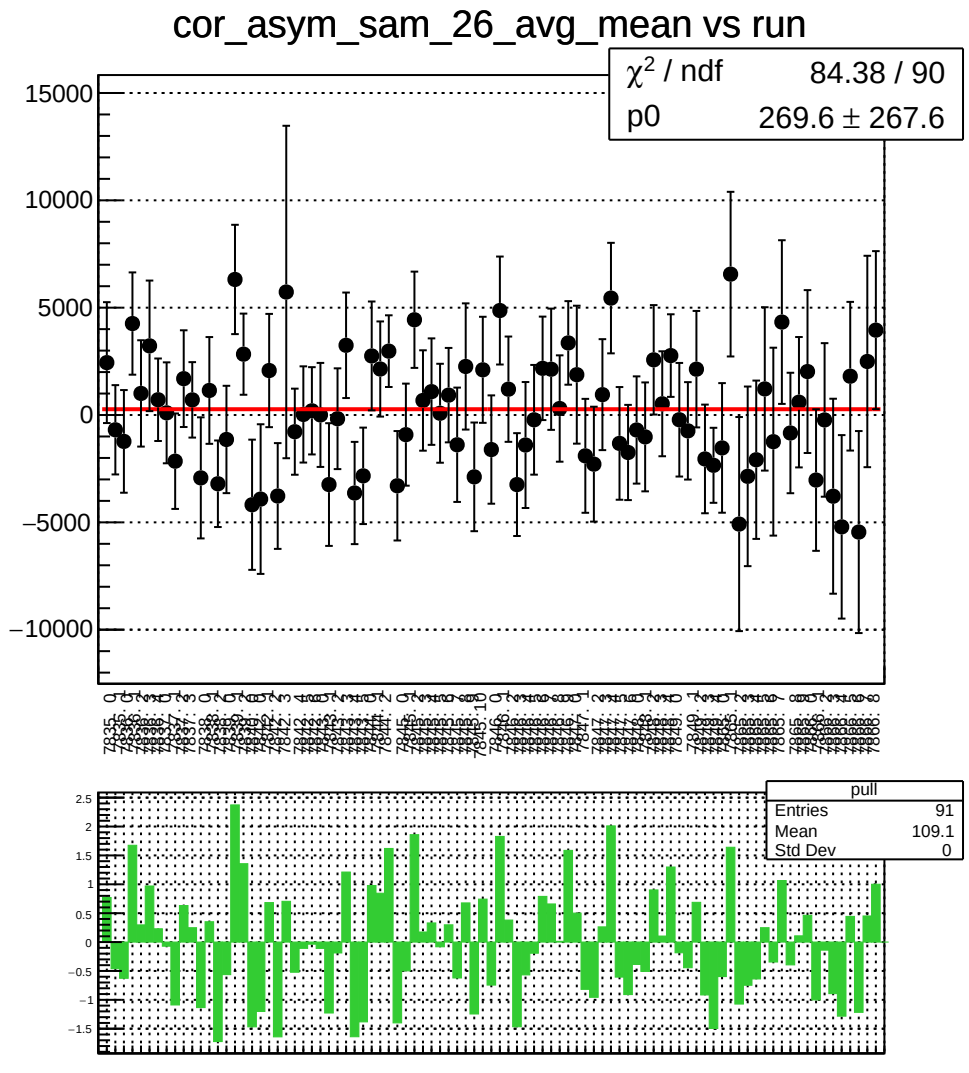

pull1D
Entries 91
Mean −0.02274
Std Dev 0.9627
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

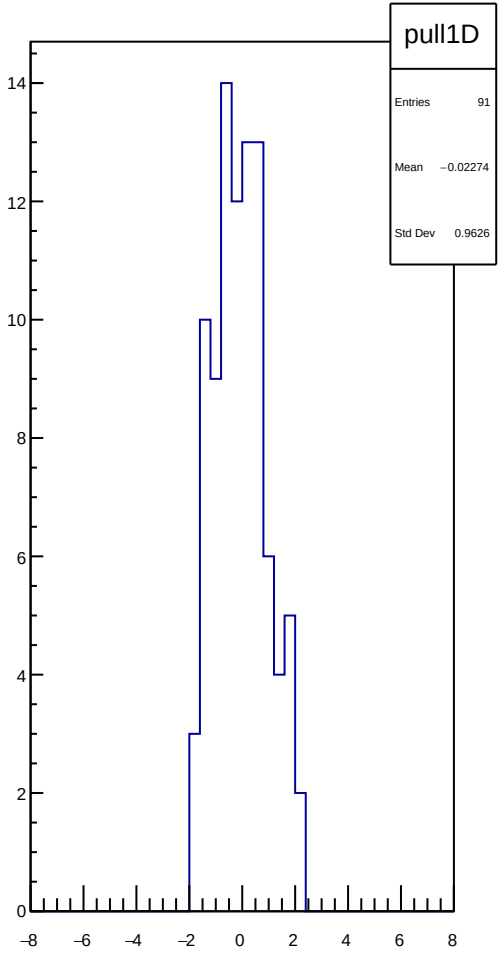

reg_asym_sam_26_avg_rms vs run
χ² / ndf 6.506e+04 / 90
p0 245.9 ± 0.1892
700
600
500
400
300
200

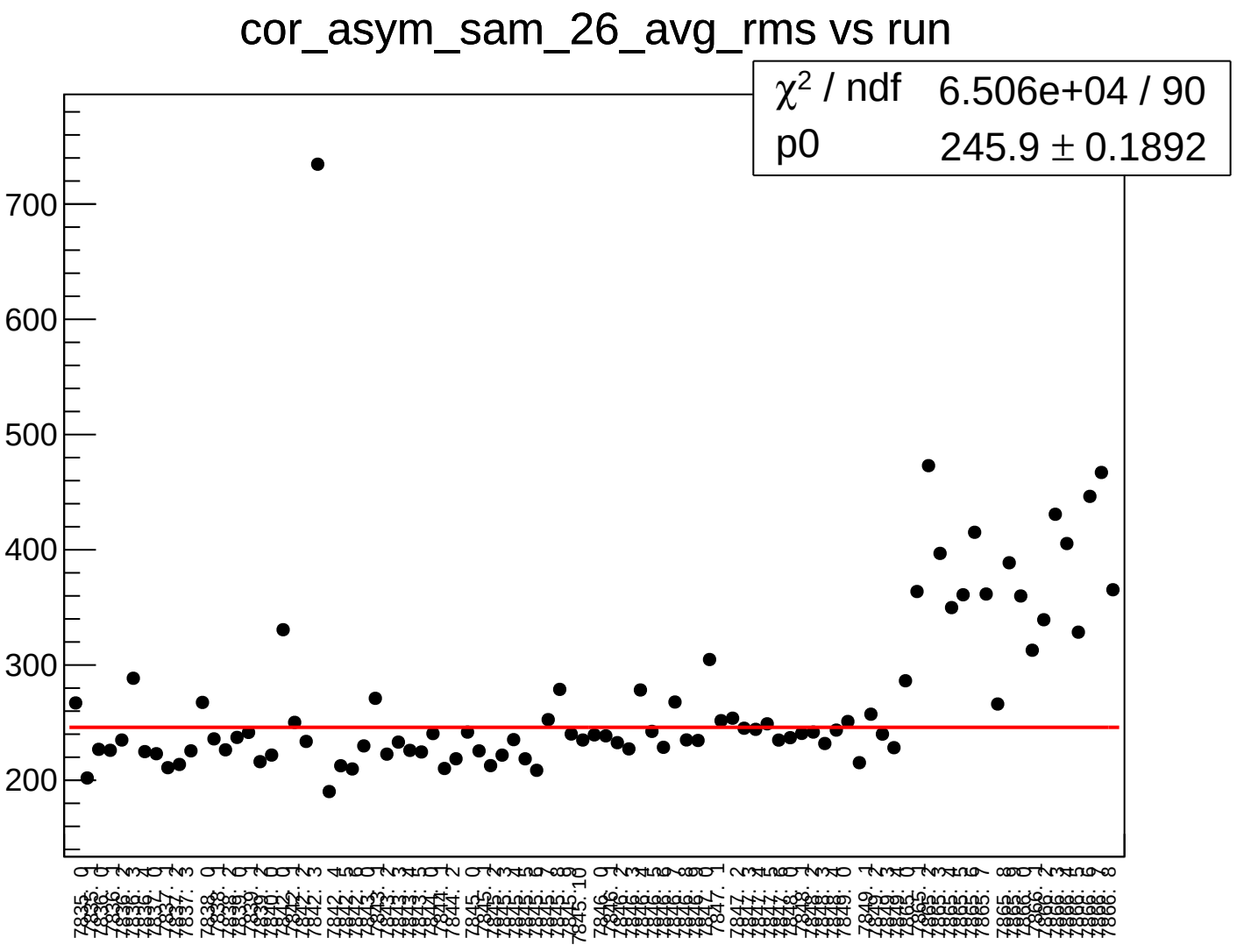

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 80.89 / 90
p0 76.67 ± 2211
×10³
pull
Entries 91
Mean 91.66
Std Dev 0

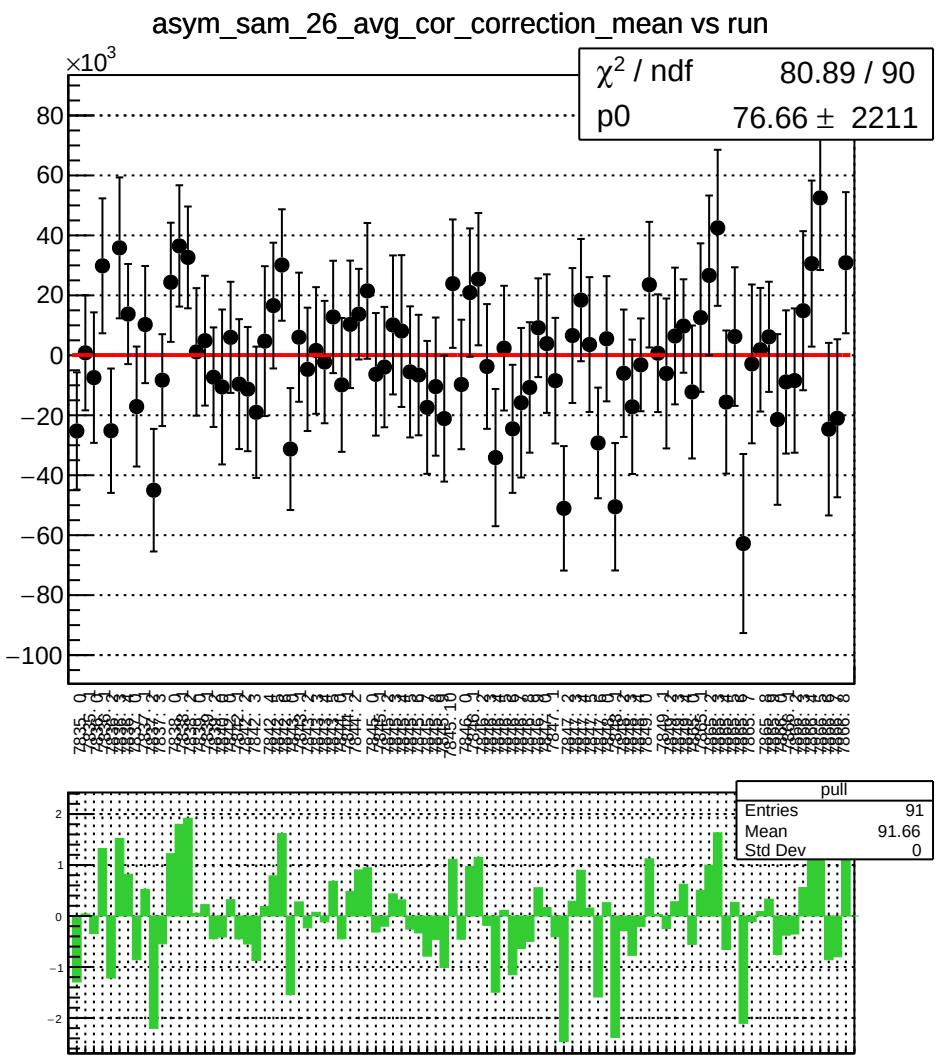

pull1D
Entries 91
Mean −0.01168
Std Dev 0.9427

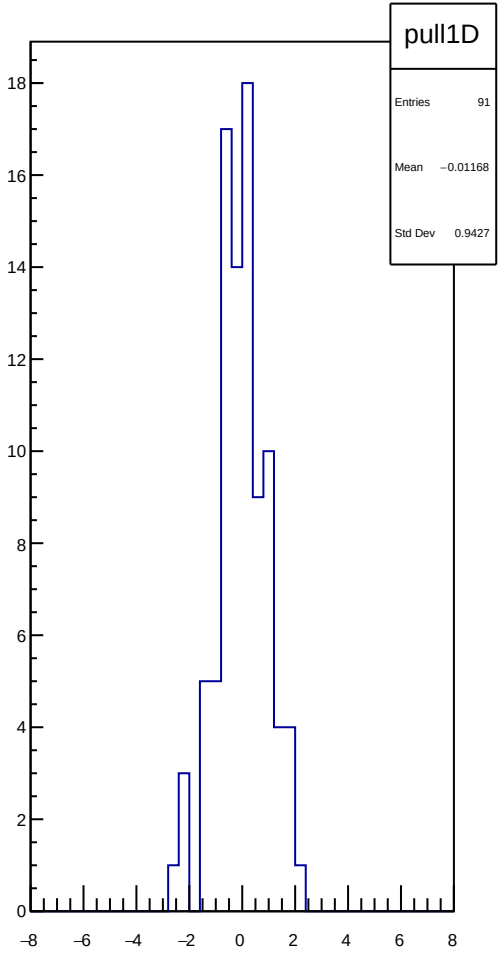

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.471e+04 / 90
p0 2063 ± 1.563
2800
2600
2400
2200
2000
1800

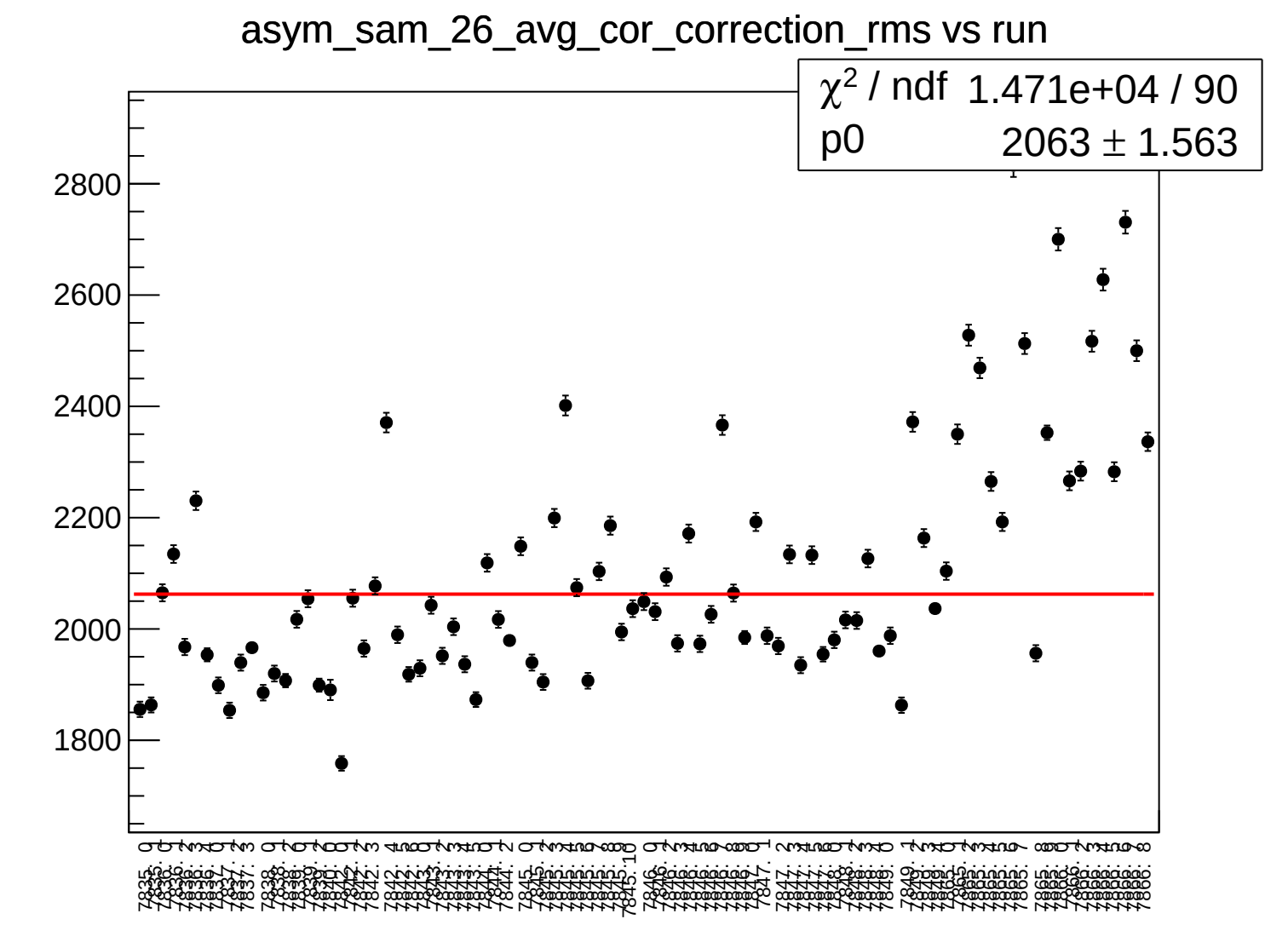

cor_asym_sam_26_avg_mean vs run
χ² / ndf 84.38 / 90
p0 269.6 ± 267.6
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 109.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

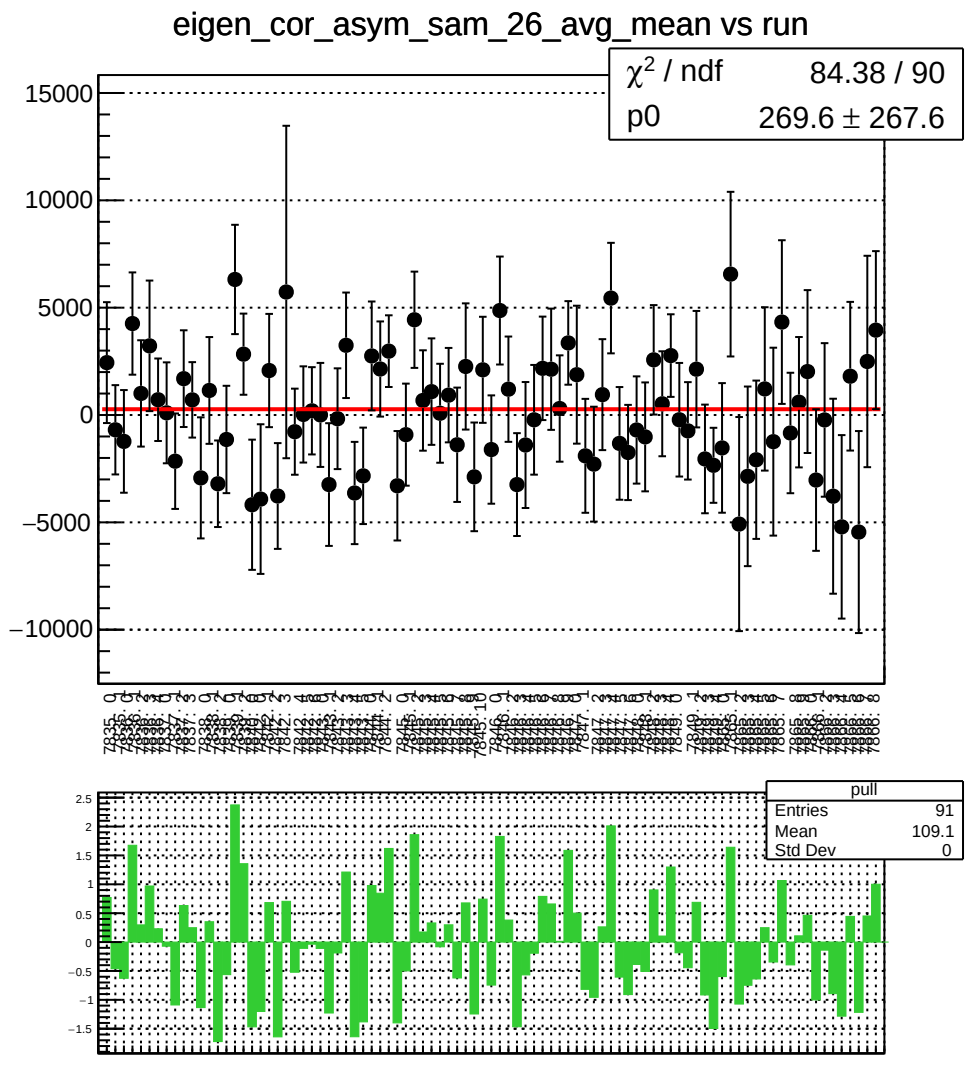

pull1D
Entries 91
Mean −0.02274
Std Dev 0.9626
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

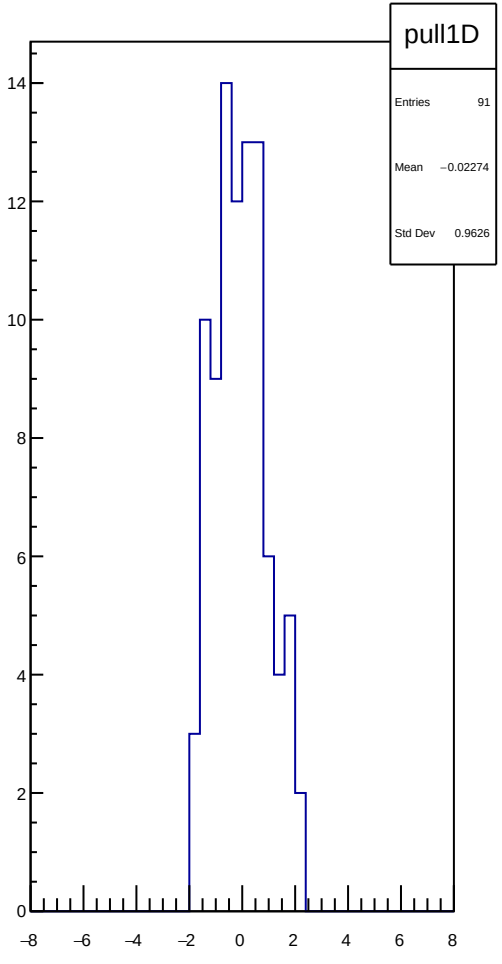

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 6.506e+04 / 90
p0 245.9 ± 0.1892
700
600
500
400
300
200

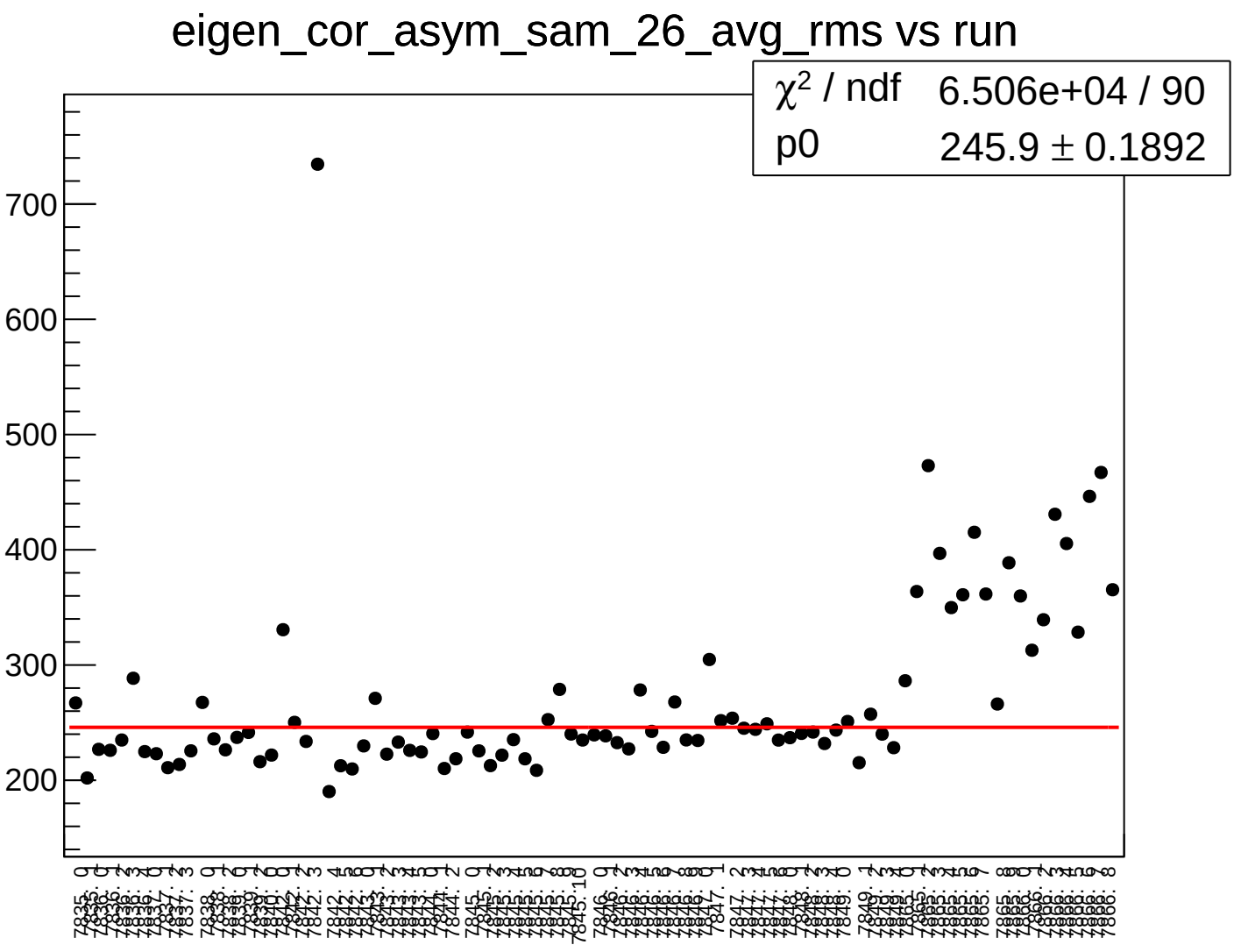

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 80.89 / 90
p0 76.66 ± 2211
×10³
pull
Entries 91
Mean 91.66
Std Dev 0

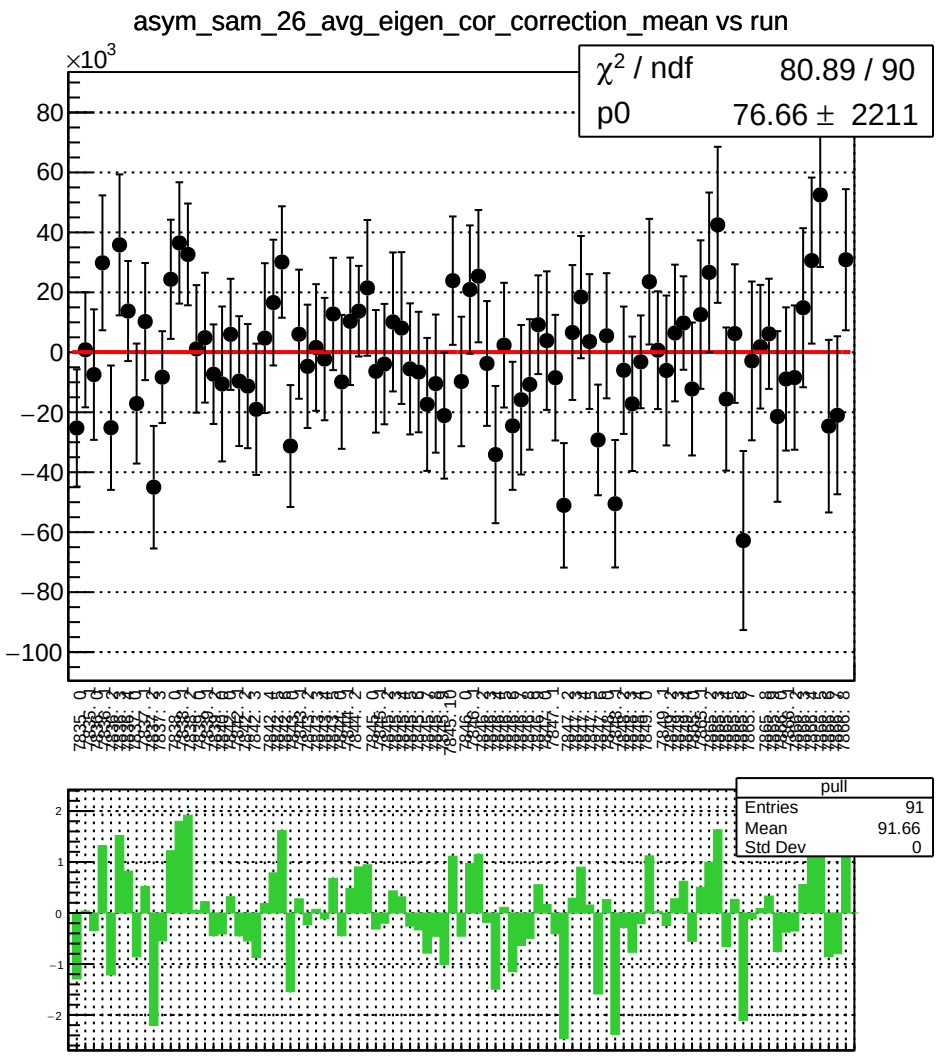

pull1D
Entries 91
Mean −0.01168
Std Dev 0.9427

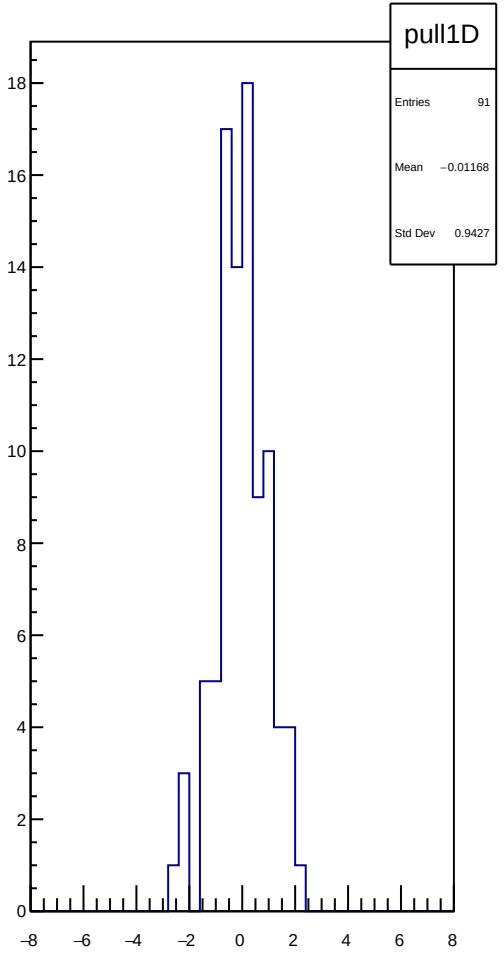

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.471e+04 / 90
p0 2063 ± 1.563
2800
2600
2400
2200
2000
1800

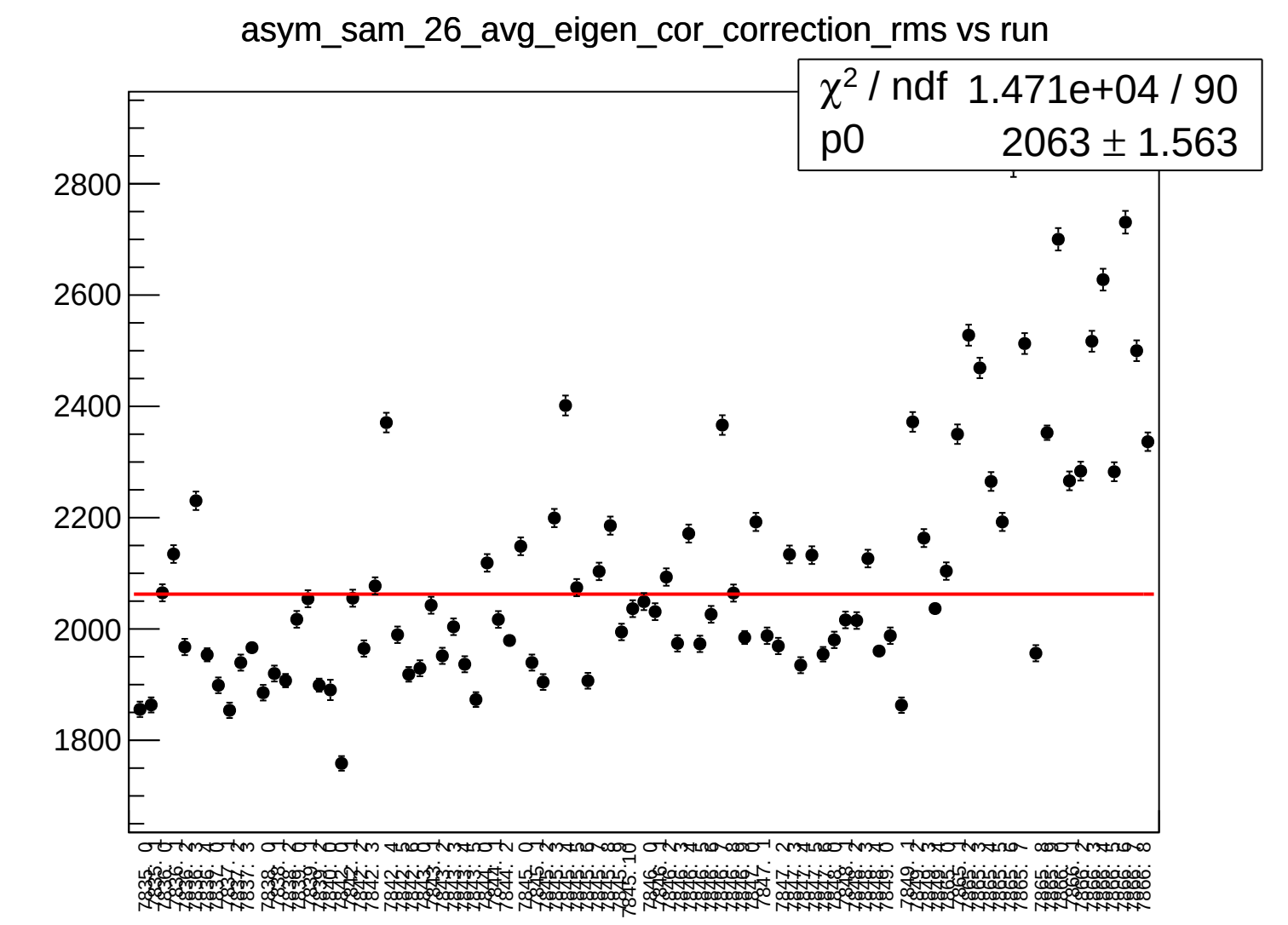

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 84.38 / 90
p0 269.6 ± 267.6
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 109.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

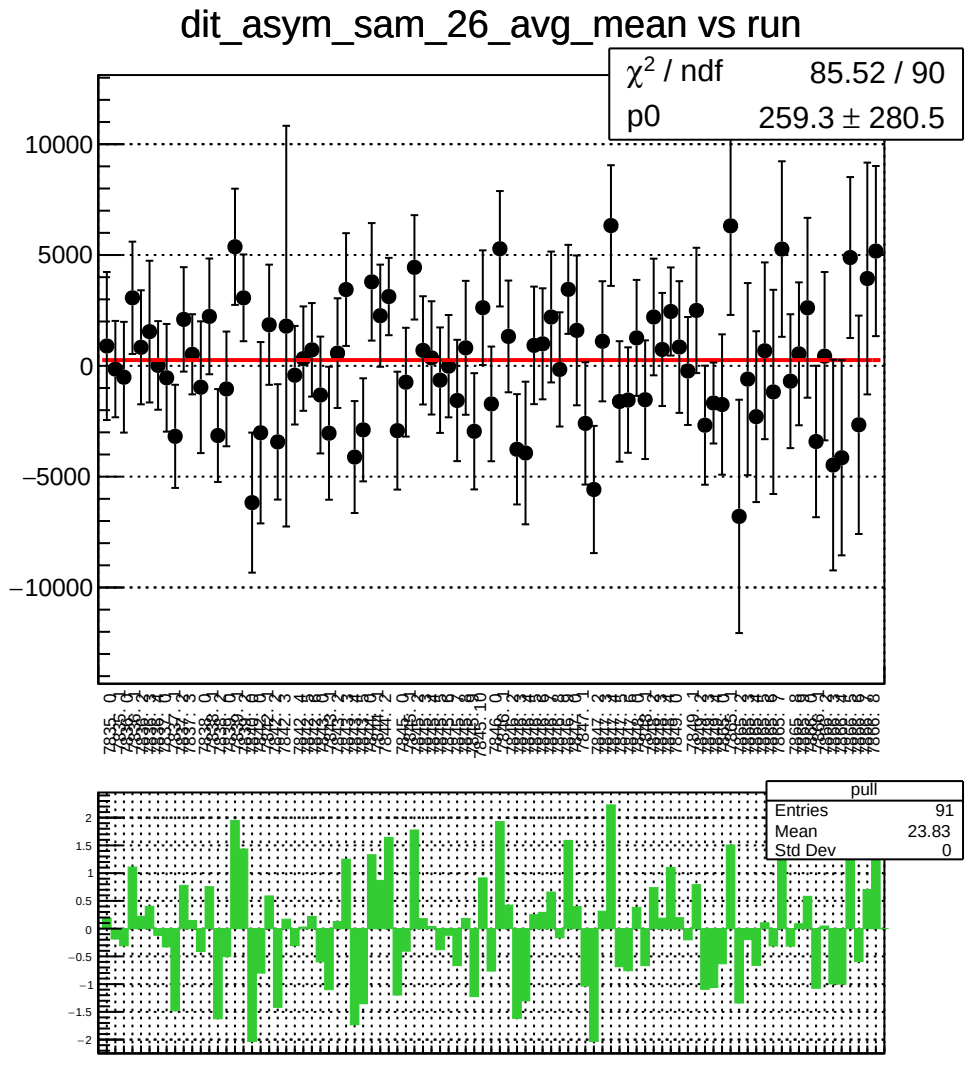

pull1D
Entries 91
Mean −0.02274
Std Dev 0.9626
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

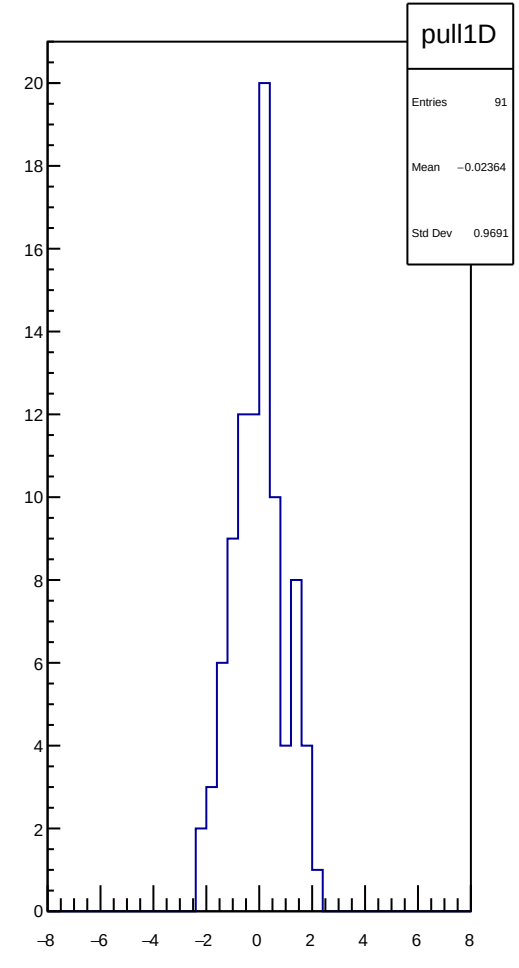

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 6.506e+04 / 90
p0 245.9 ± 0.1892
700
600
500
400
300
200

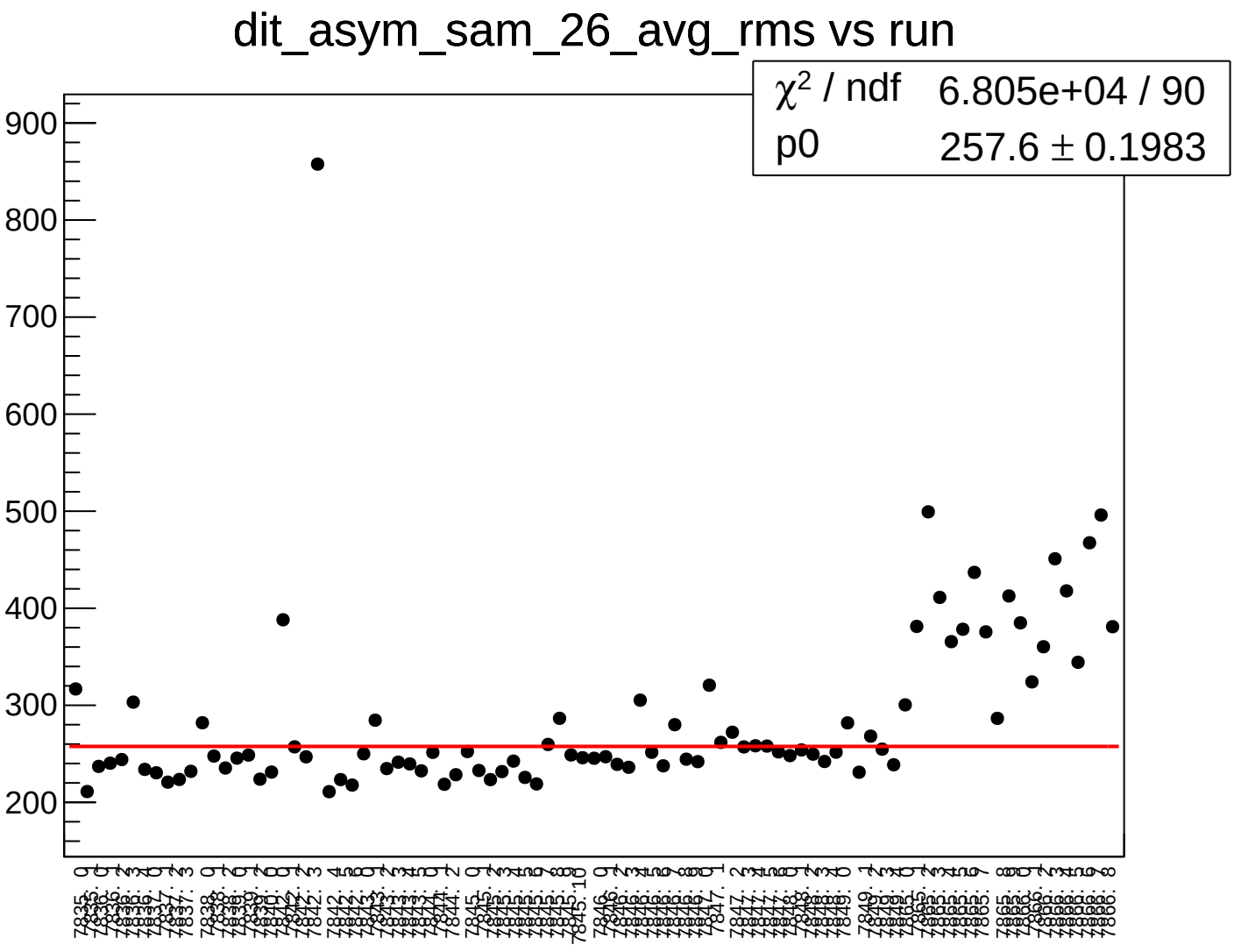

asym_sam_26_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 80.89 / 90
p0 76.66 ± 2211
pull
Entries 91
Mean 91.66
Std Dev 0

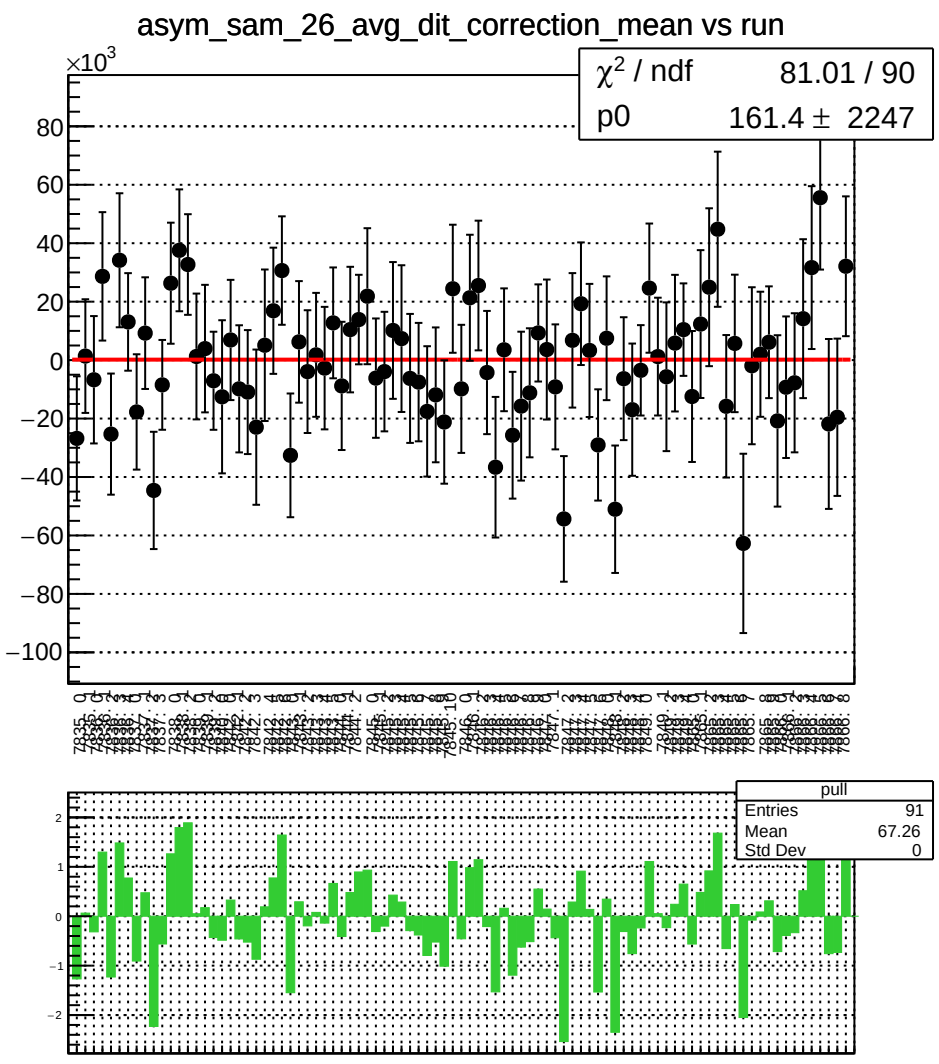

pull1D
Entries 91
Mean −0.01168
Std Dev 0.9427

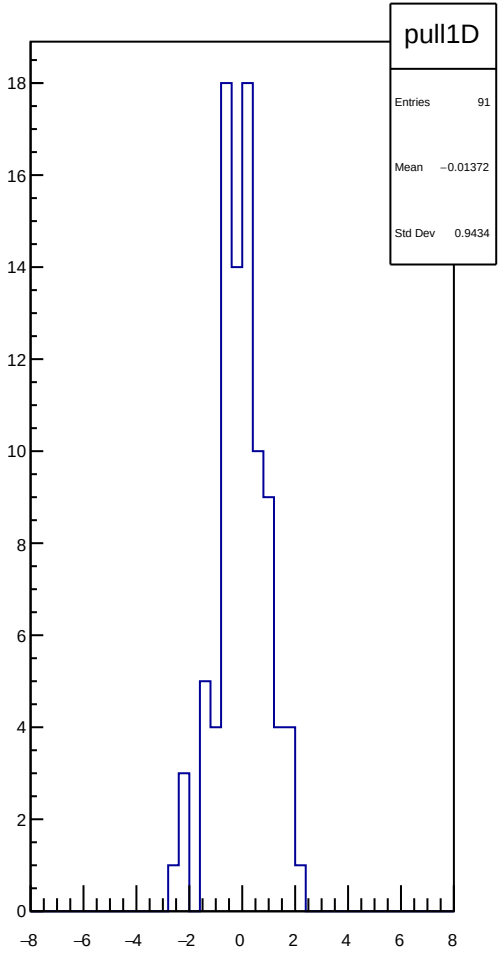

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.471e+04 / 90
p0 2063 ± 1.563
2800
2600
2400
2200
2000
1800

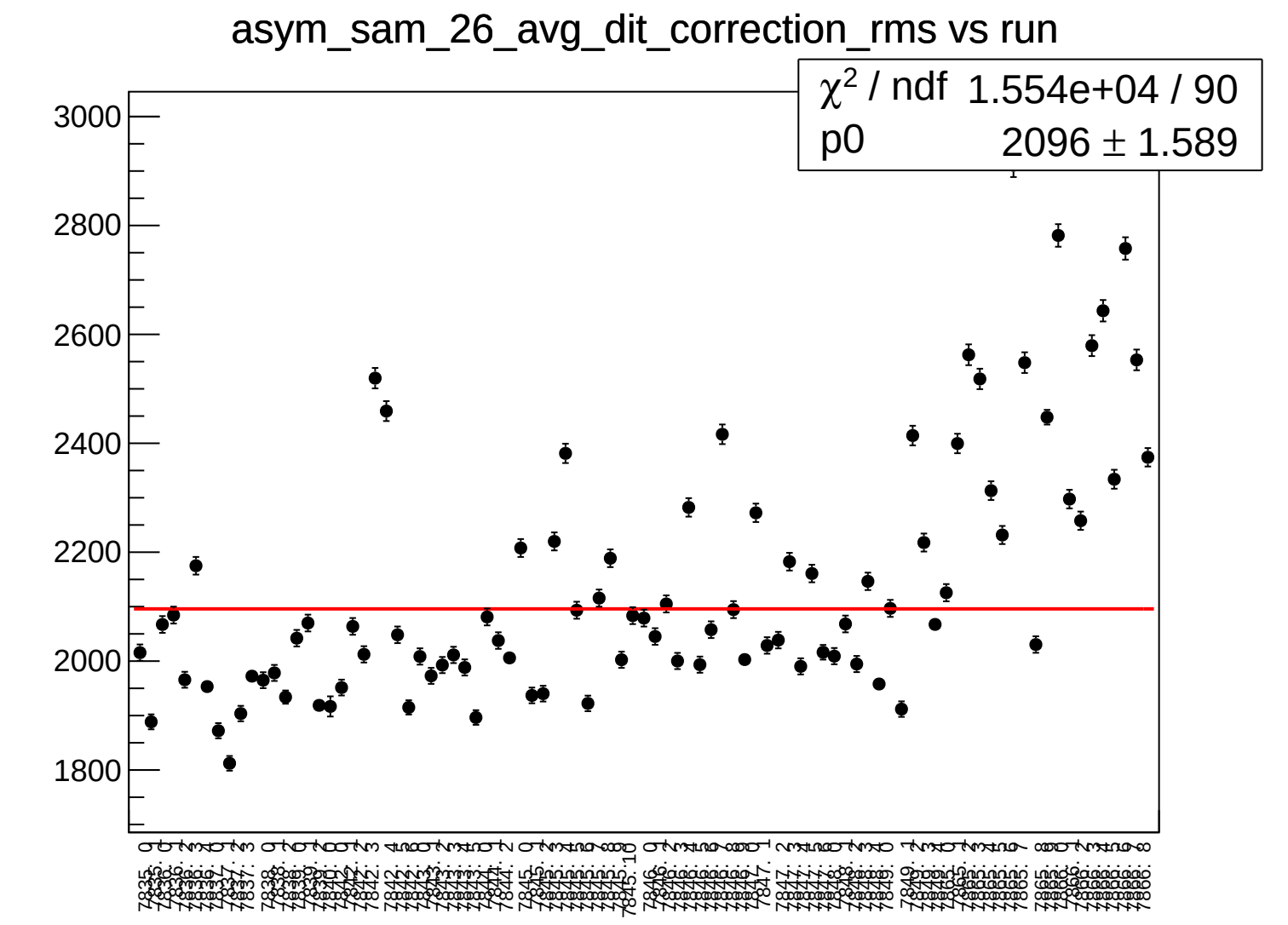

dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 85.52 / 90
p0 259.3 ± 280.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 23.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

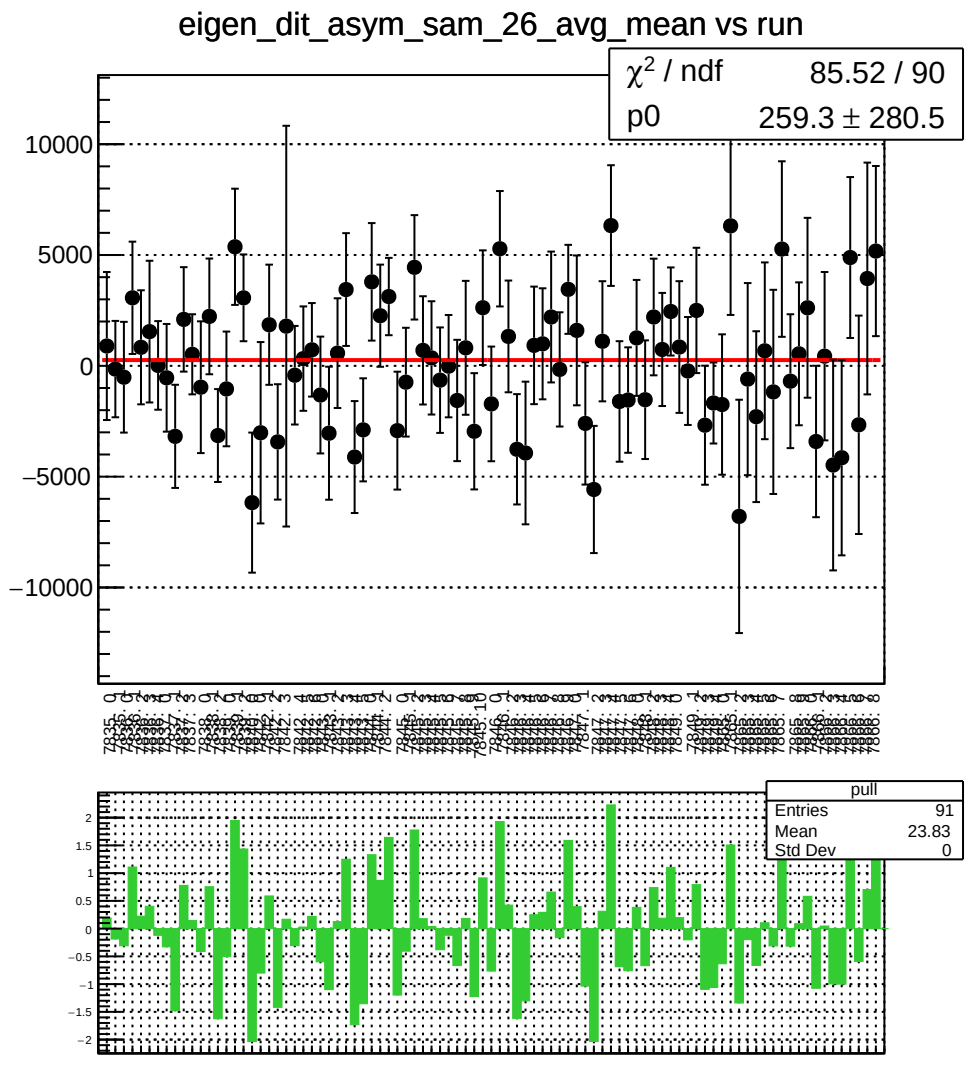

pull1D
Entries 91
Mean −0.02364
Std Dev 0.9691
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

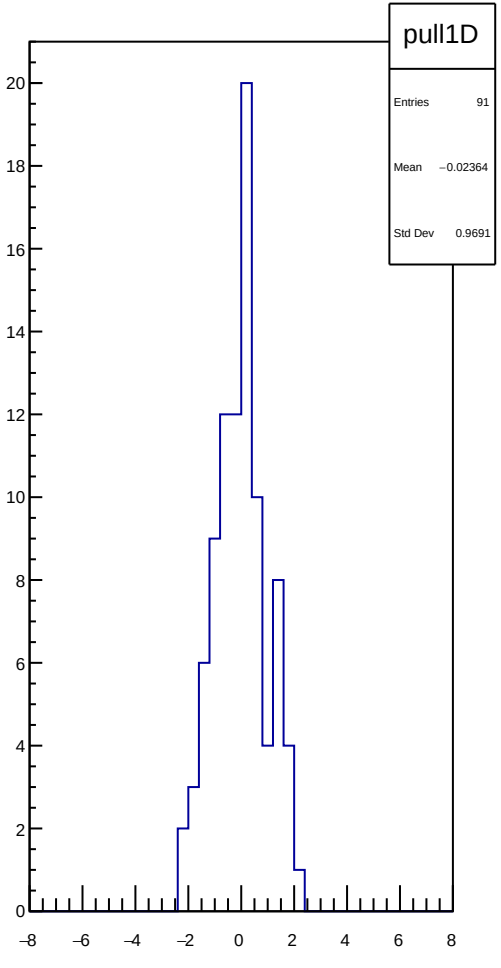

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 6.805e+04 / 90
p0 257.6 ± 0.1983
900
800
700
600
500
400
300
200

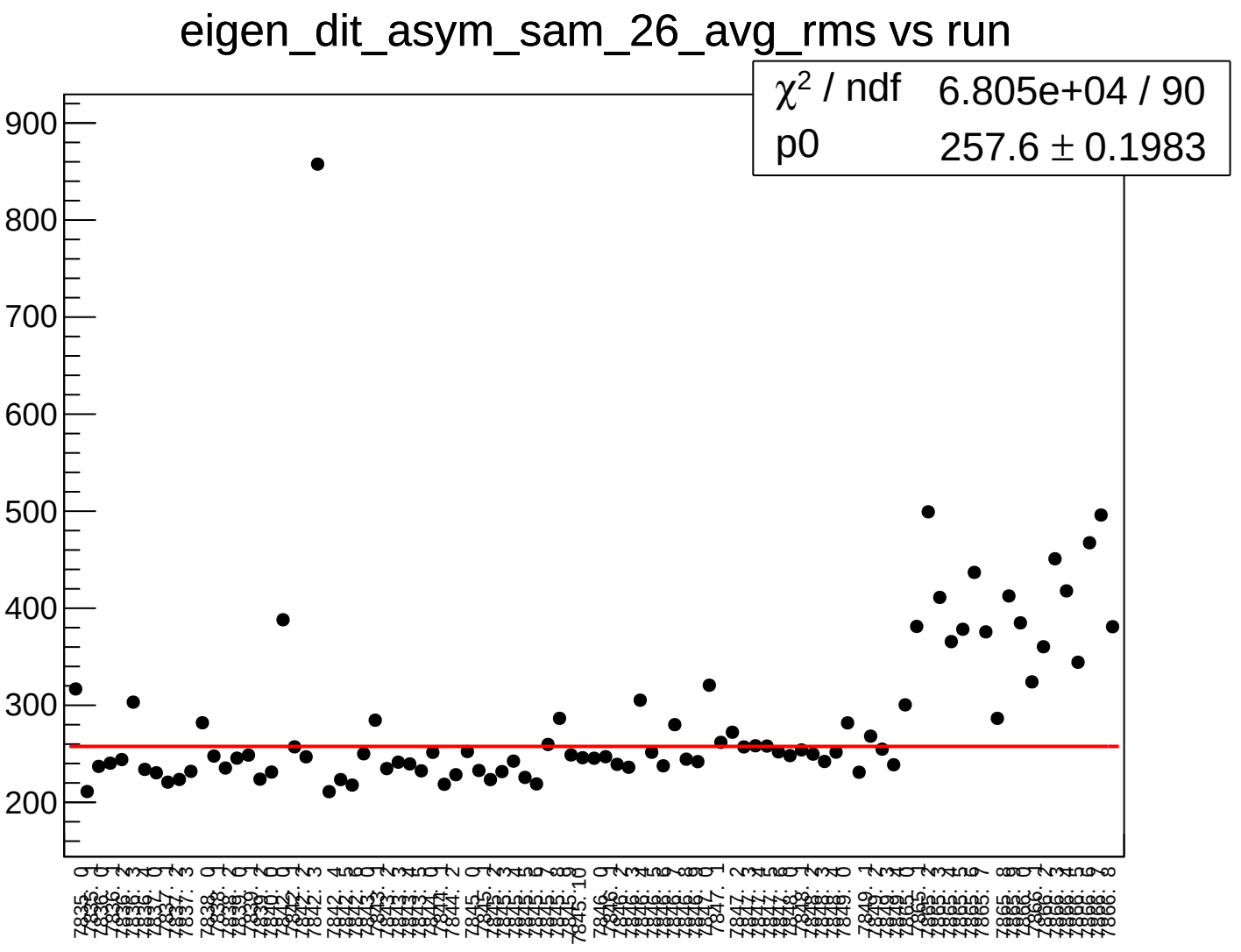

asym_sam_26_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.01 / 90
p0 161.4 ± 2247
pull
Entries 91
Mean 67.26
Std Dev 0

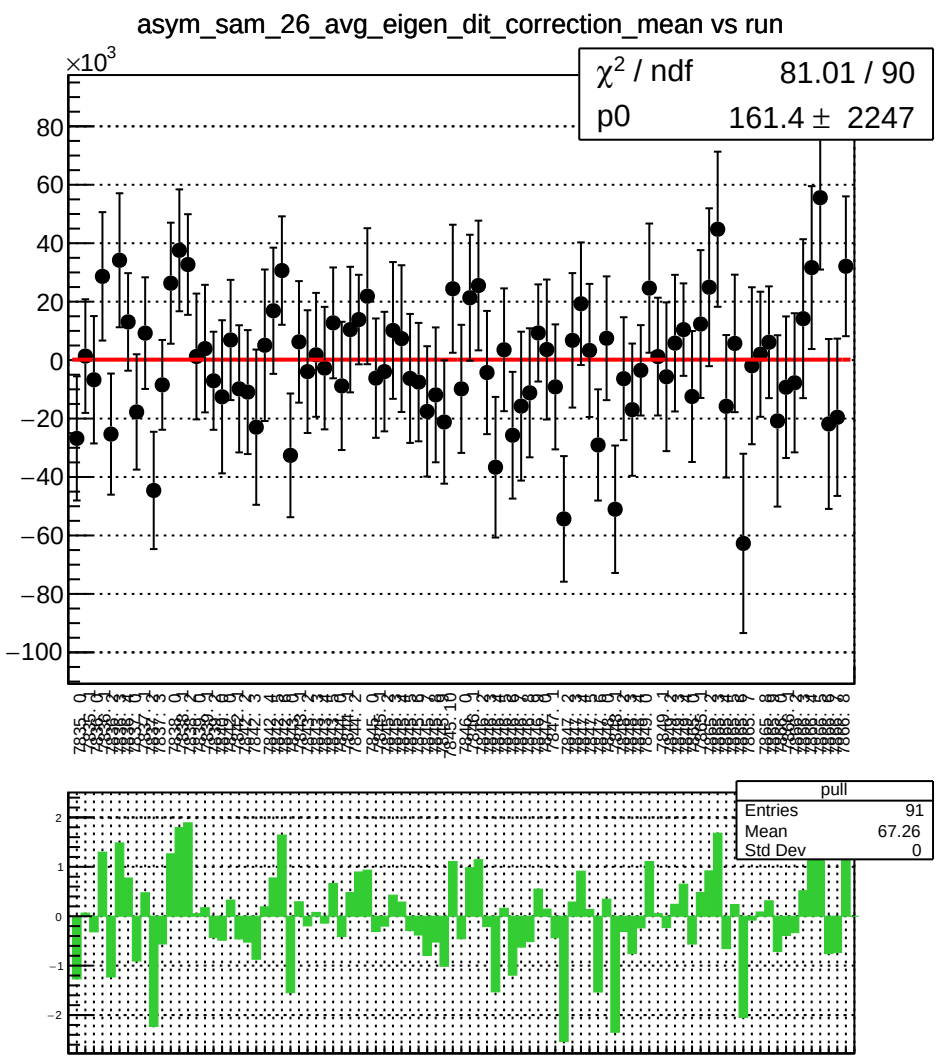

pull1D
Entries 91
Mean −0.01372
Std Dev 0.9434

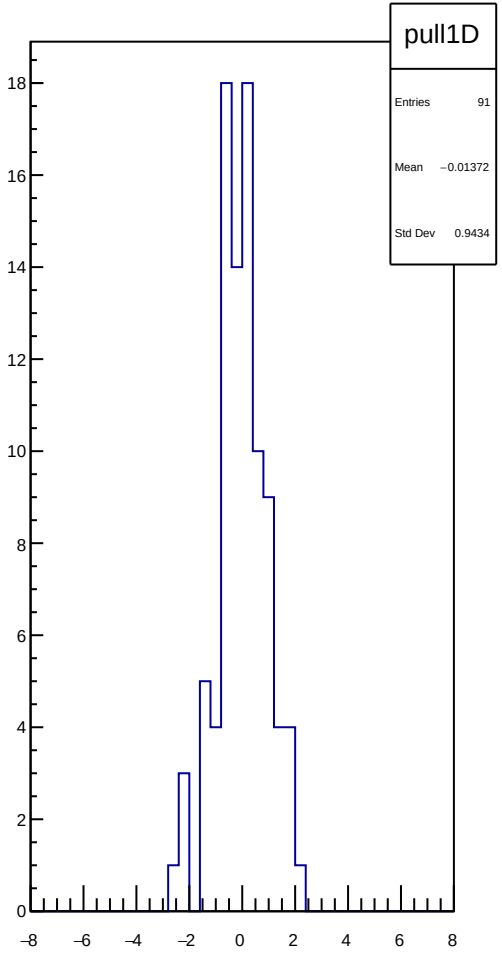

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 2096 ± 1.589
3000
2800
2600
2400
2200
2000
1800

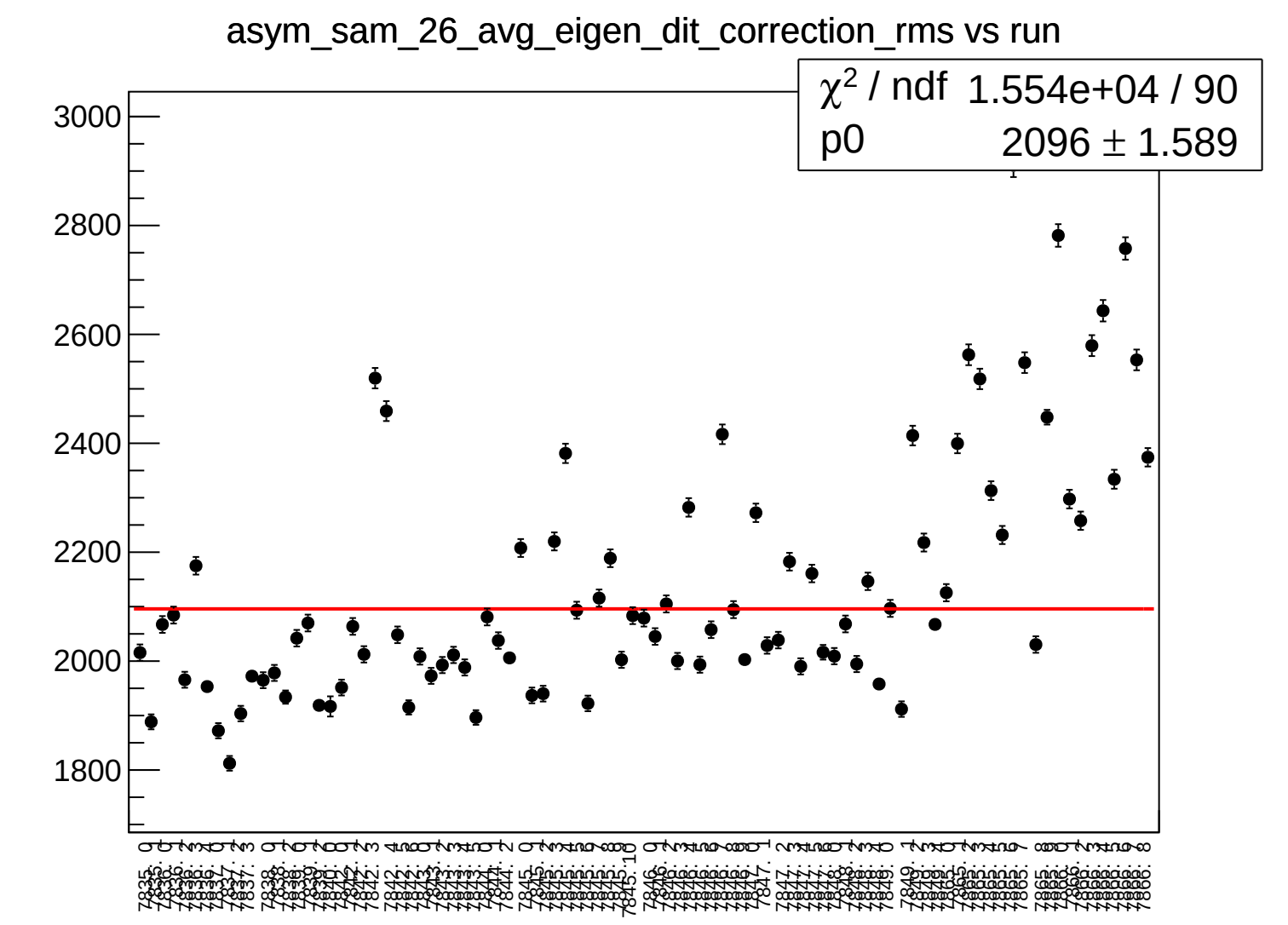

eigen_dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 85.52 / 90
p0 259.3 ± 280.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 23.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

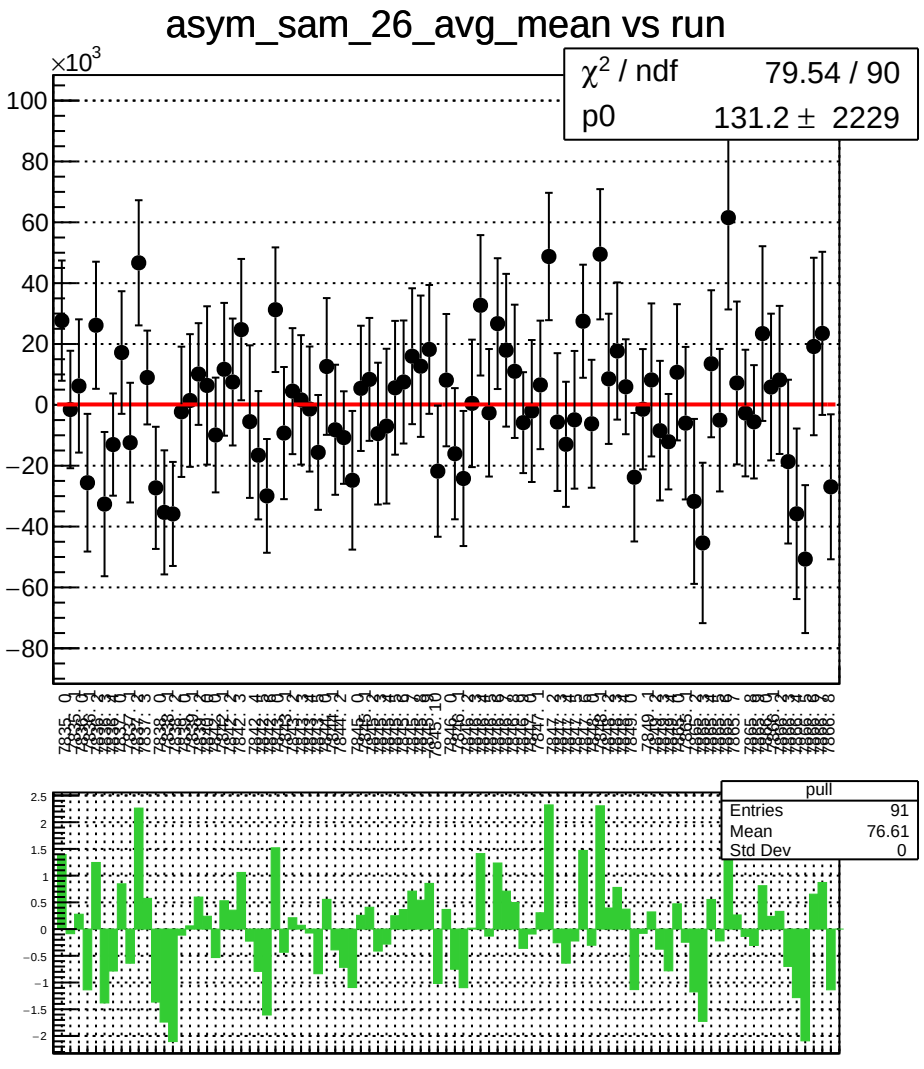

pull1D
Entries 91
Mean −0.02364
Std Dev 0.9691
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

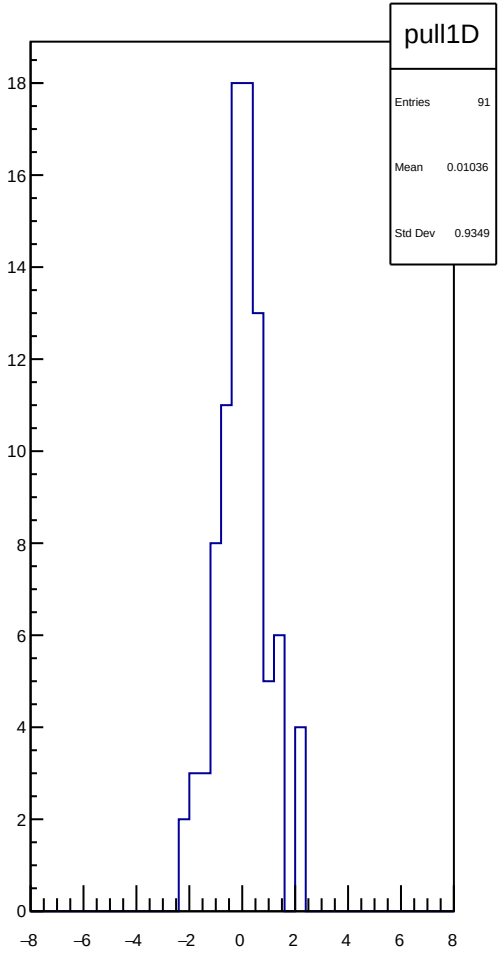

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 6.805e+04 / 90
p0 257.6 ± 0.1983
900
800
700
600
500
400
300
200

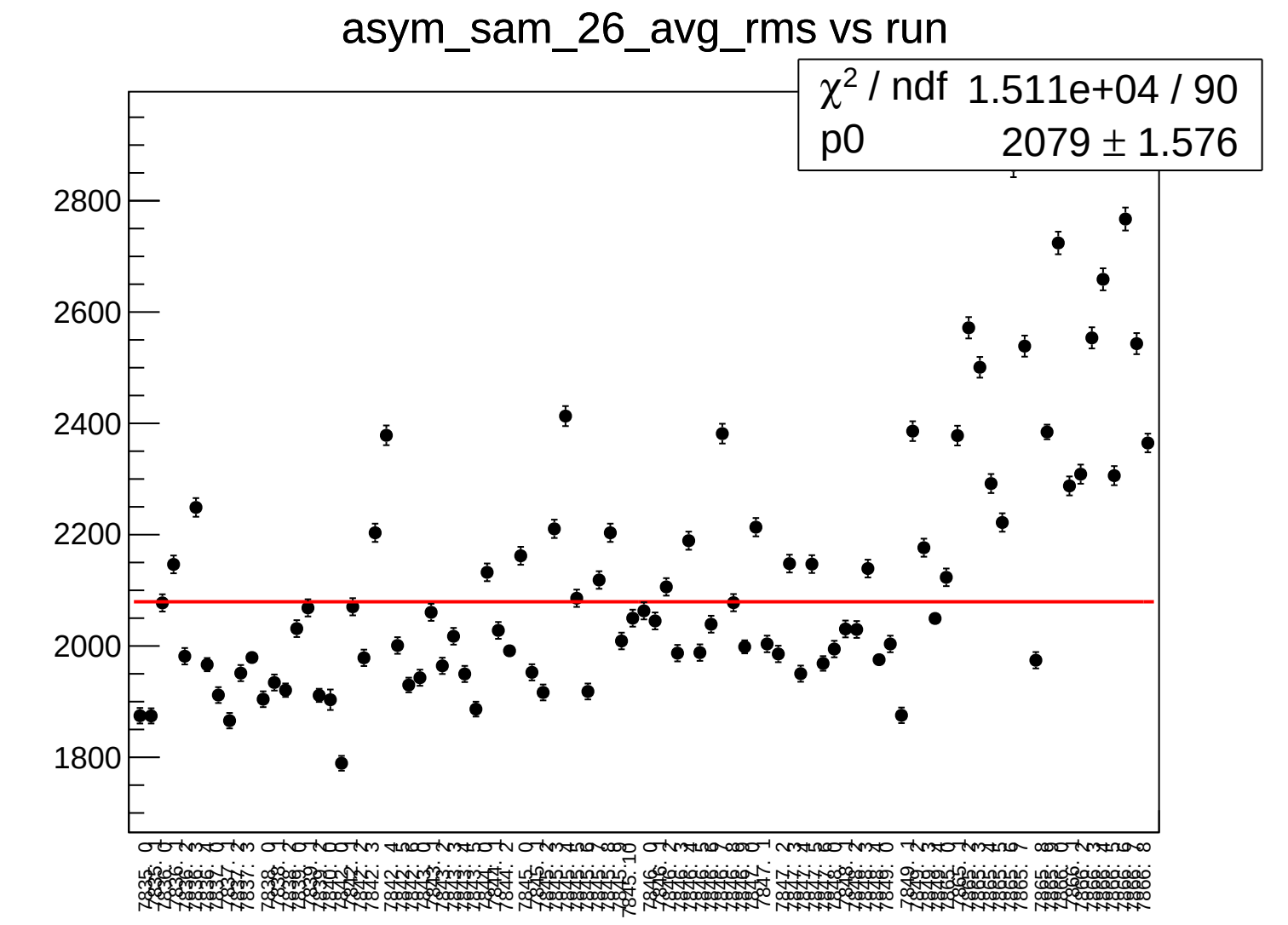

asym_sam_26_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.01 / 90
p0 161.4 ± 2247
pull
Entries 91
Mean 67.26
Std Dev 0

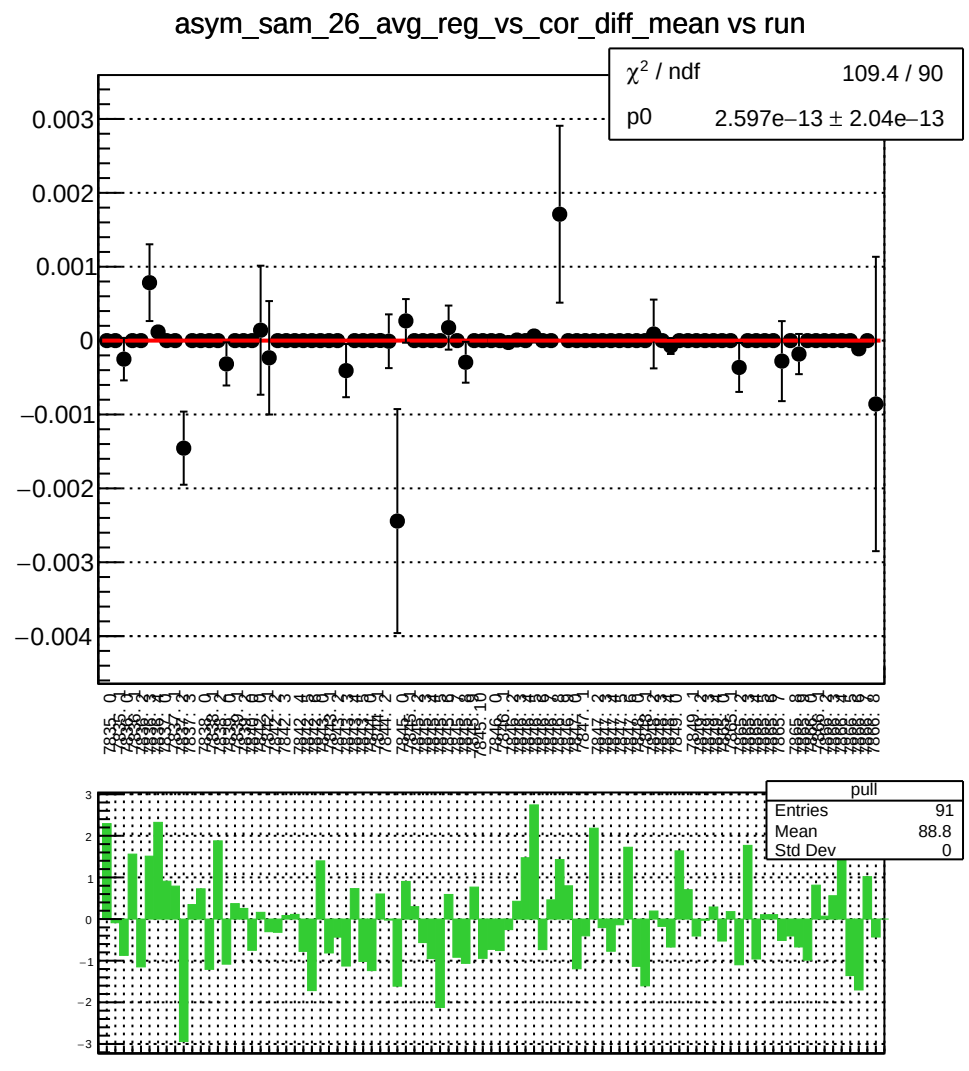

pull1D
Entries 91
Mean −0.01372
Std Dev 0.9434

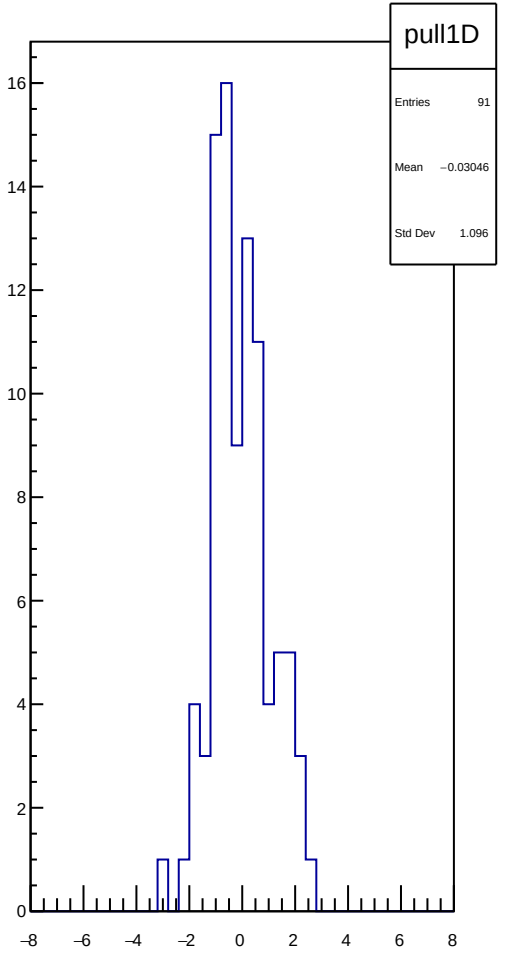

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 2096 ± 1.589
3000
2800
2600
2400
2200
2000
1800

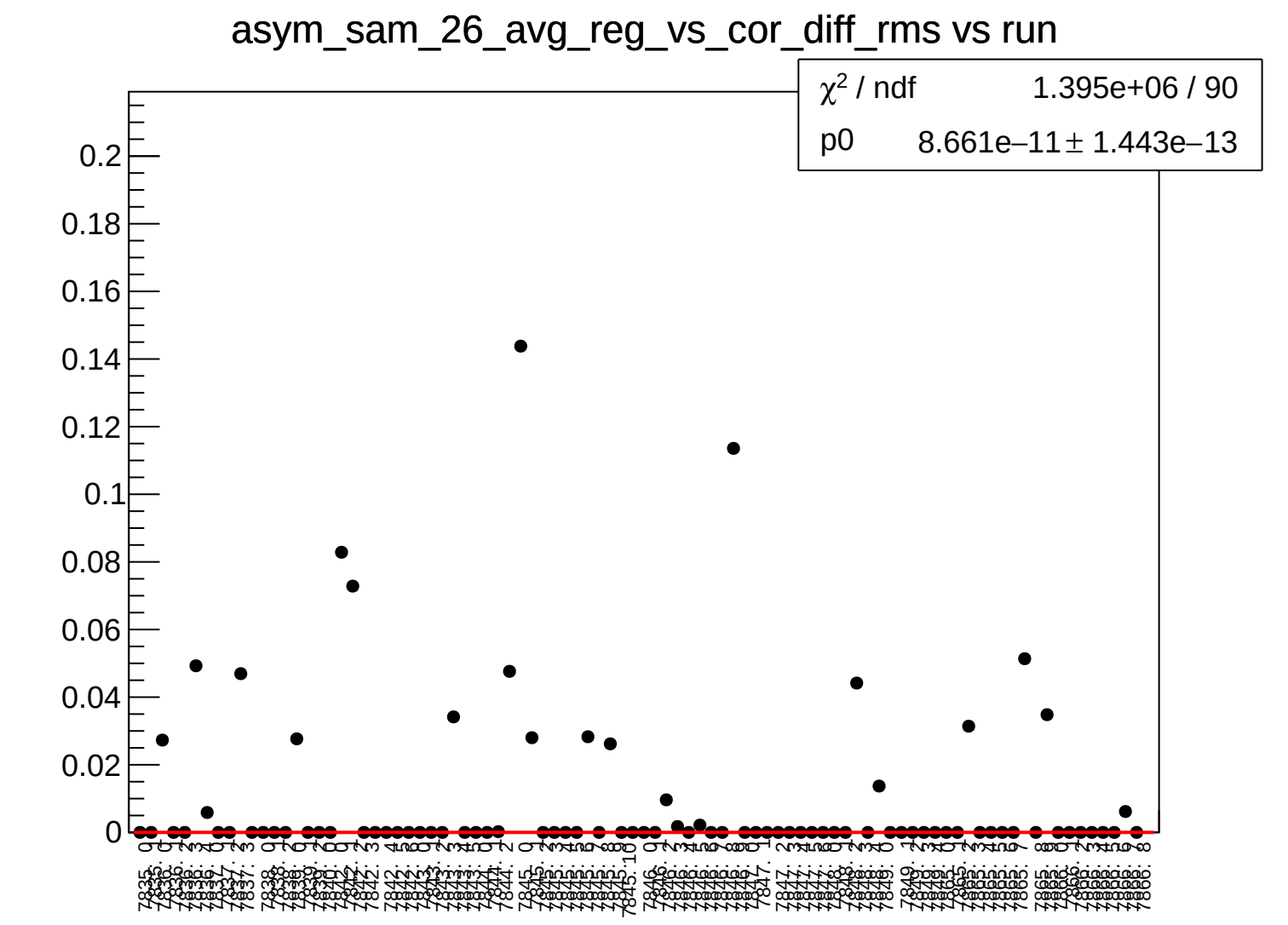

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 79.54 / 90
p0 131.2 ± 2229
pull
Entries 91
Mean 76.61
Std Dev 0

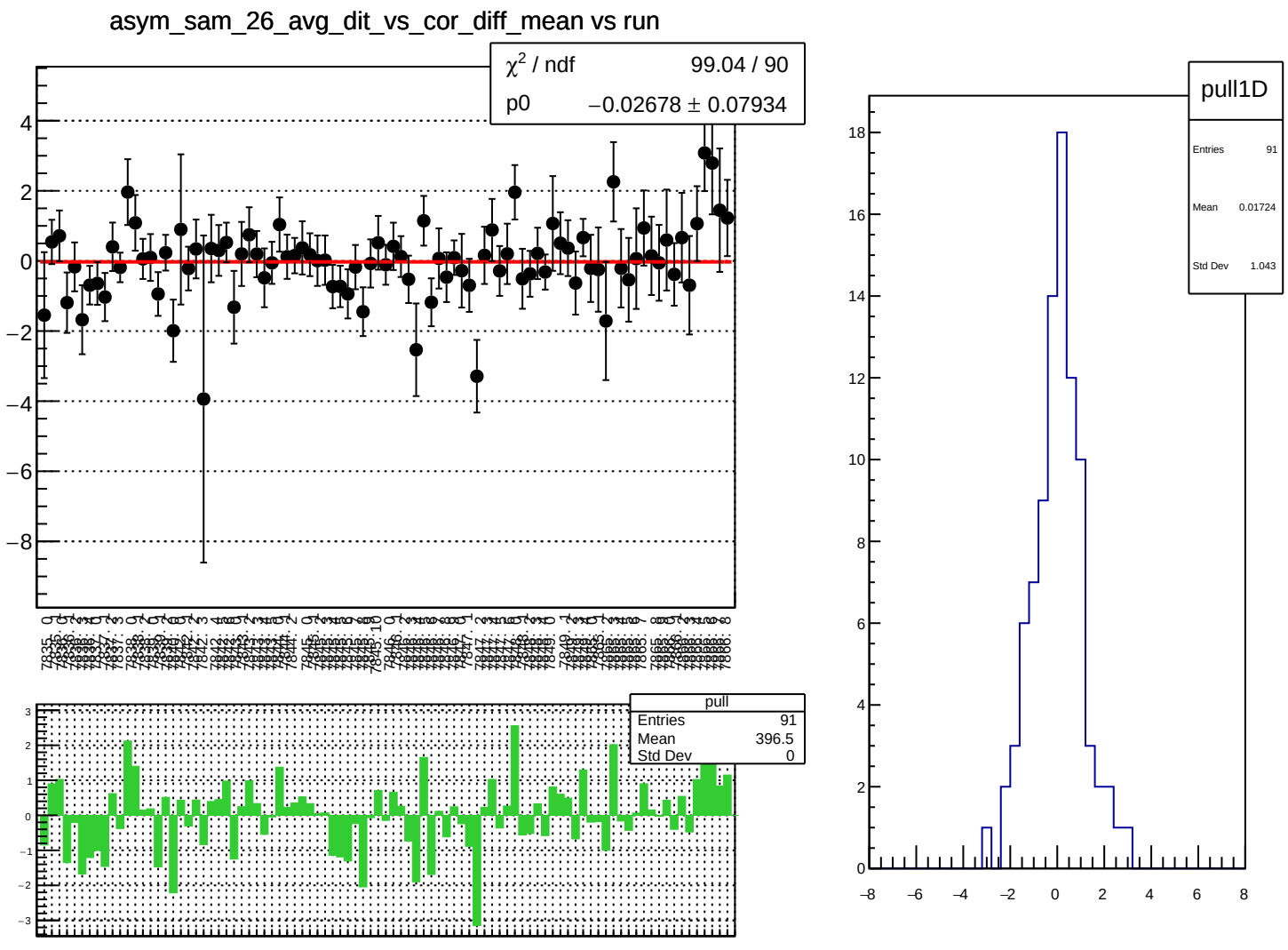

pull1D
Entries 91
Mean 0.01036
Std Dev 0.9349

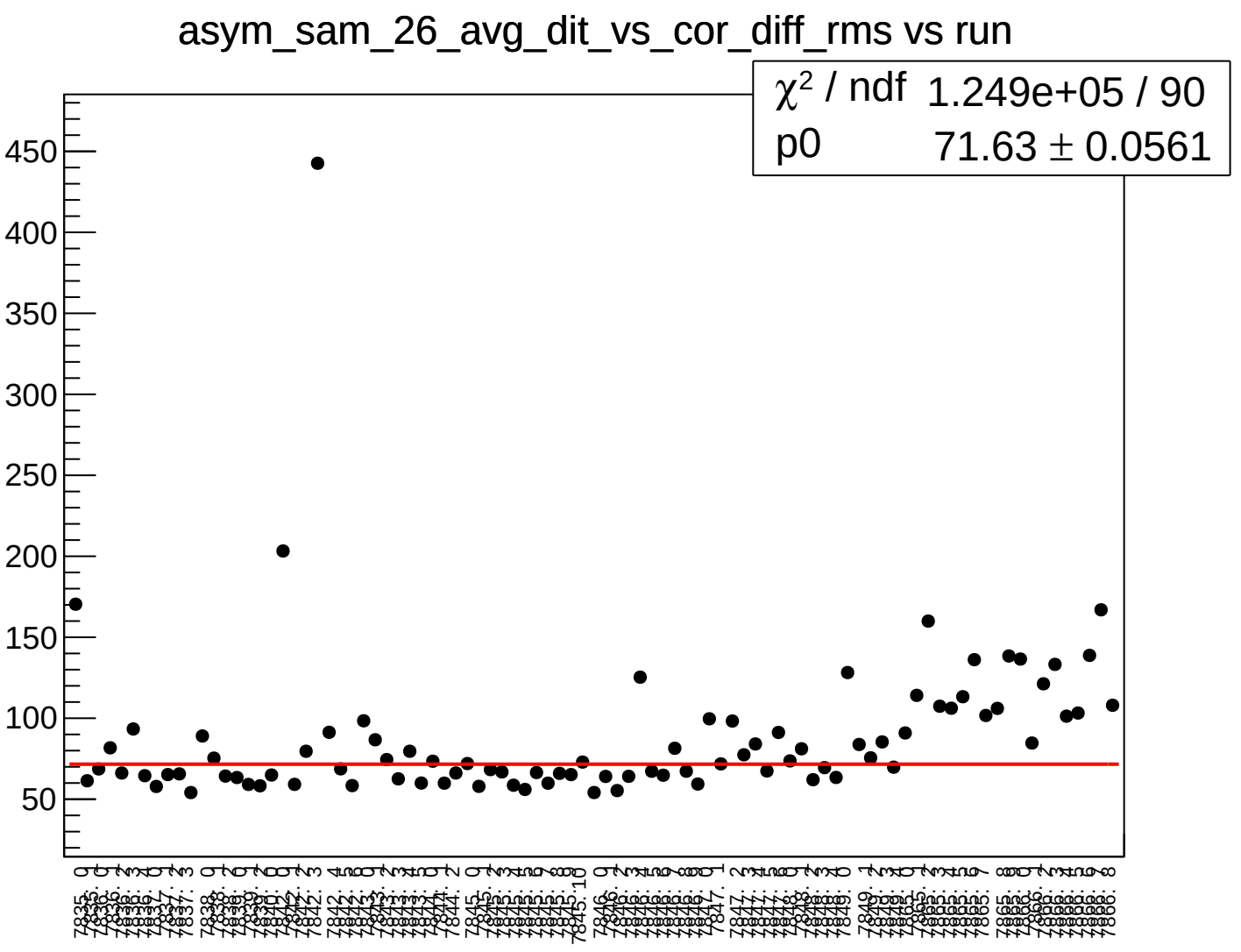

asym_sam_26_avg_rms vs run
χ² / ndf 1.511e+04 / 90
p0 2079 ± 1.576
2800
2600
2400
2200
2000
1800

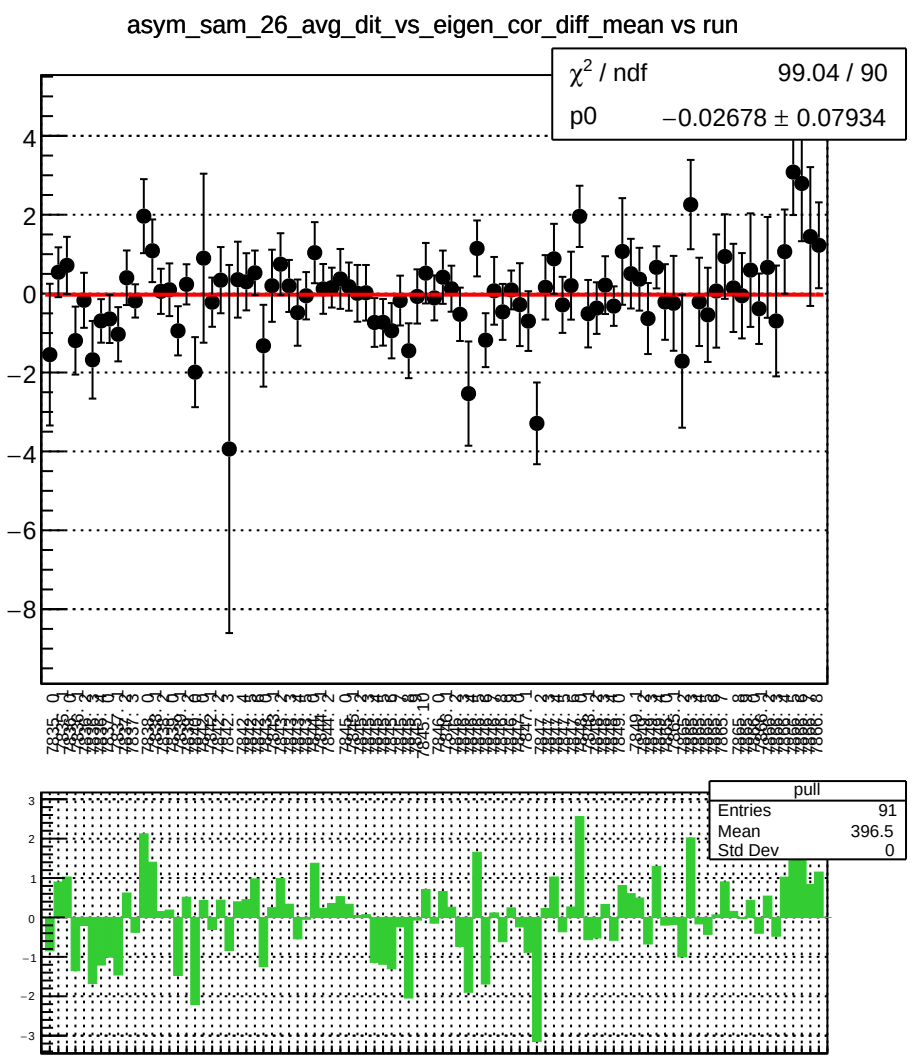

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 90
p0 2.597e−13 ± 2.04e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 91
Mean 88.8
Std Dev 0
3
2
1
0
−1
−2
−3

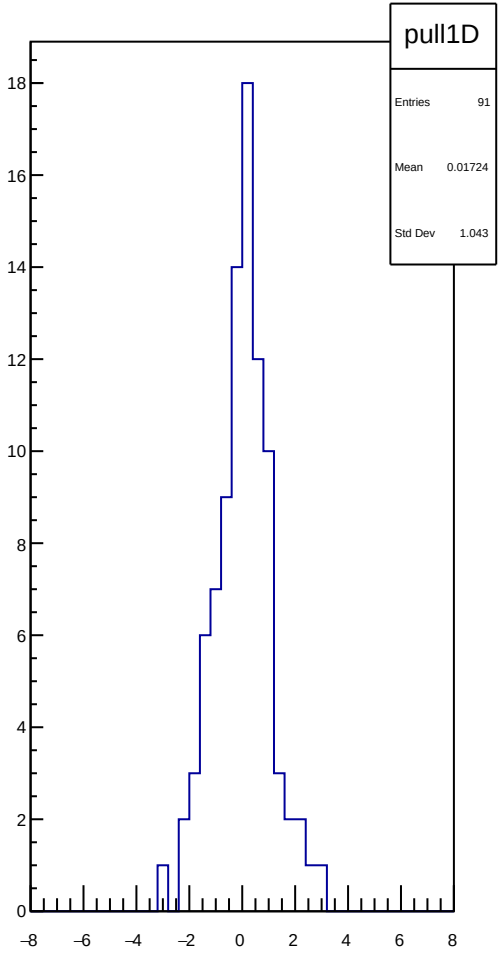

pull1D
Entries 91
Mean −0.03046
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

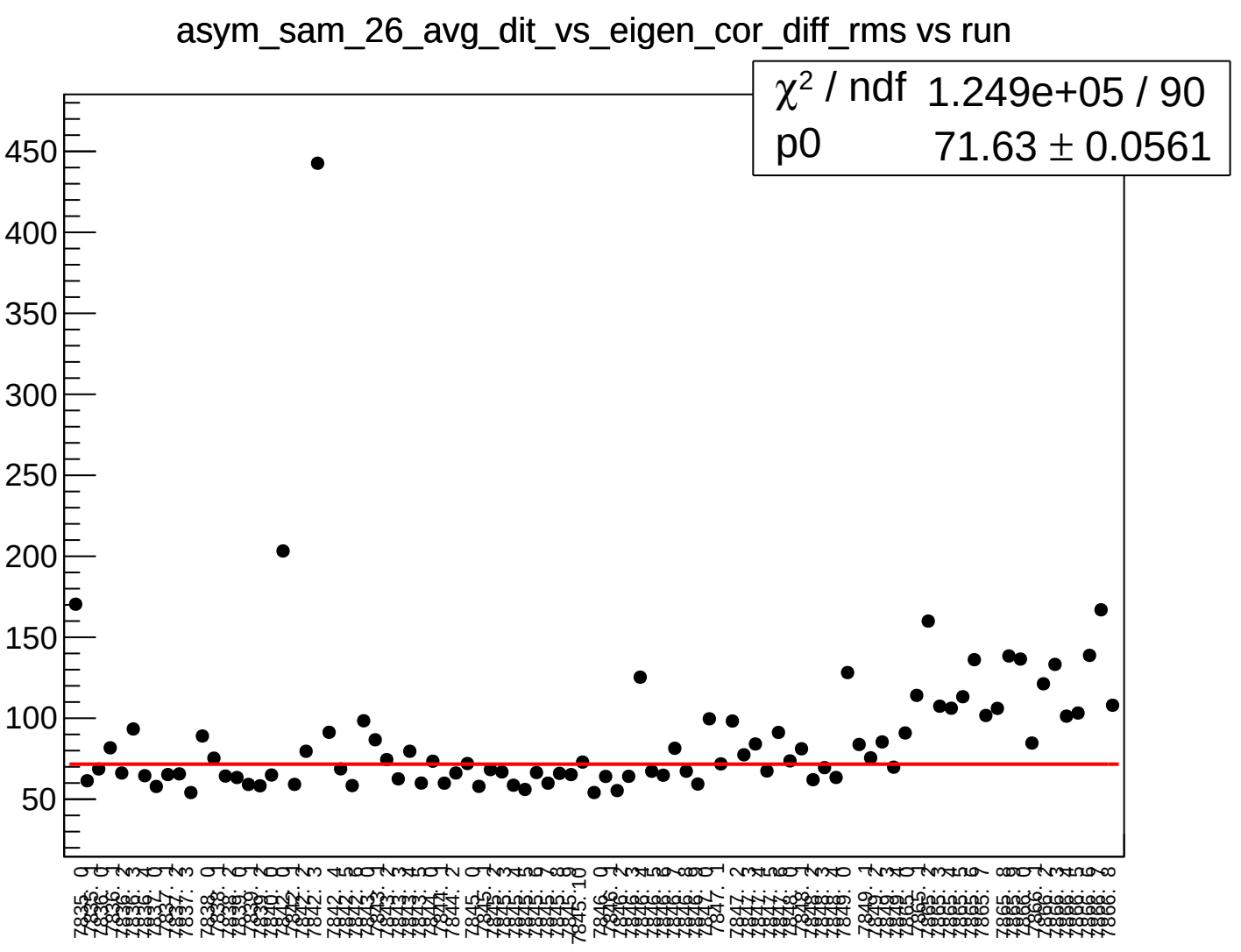

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.395e+06 / 90
p0 8.661e−11 ± 1.443e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

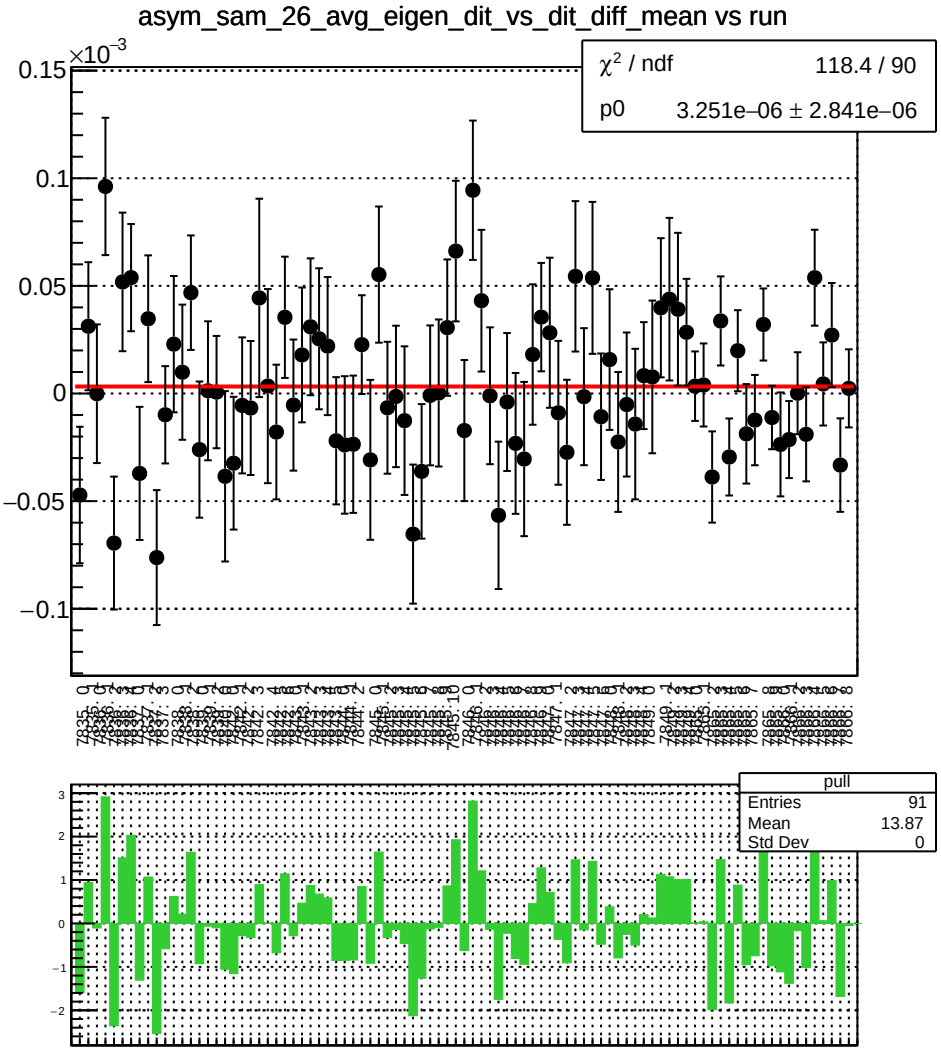

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.04 / 90
p0 −0.02678 ± 0.07934
pull
Entries 91
Mean 396.5
Std Dev 0
pull1D
Entries 91
Mean 0.01724
Std Dev 1.043

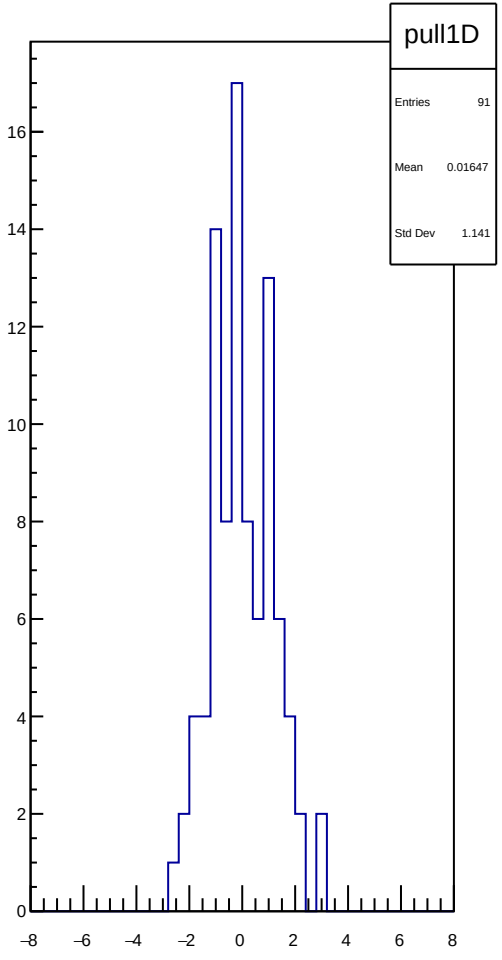

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 90
p0 71.63 ± 0.0561
450
400
350
300
250
200
150
100
50

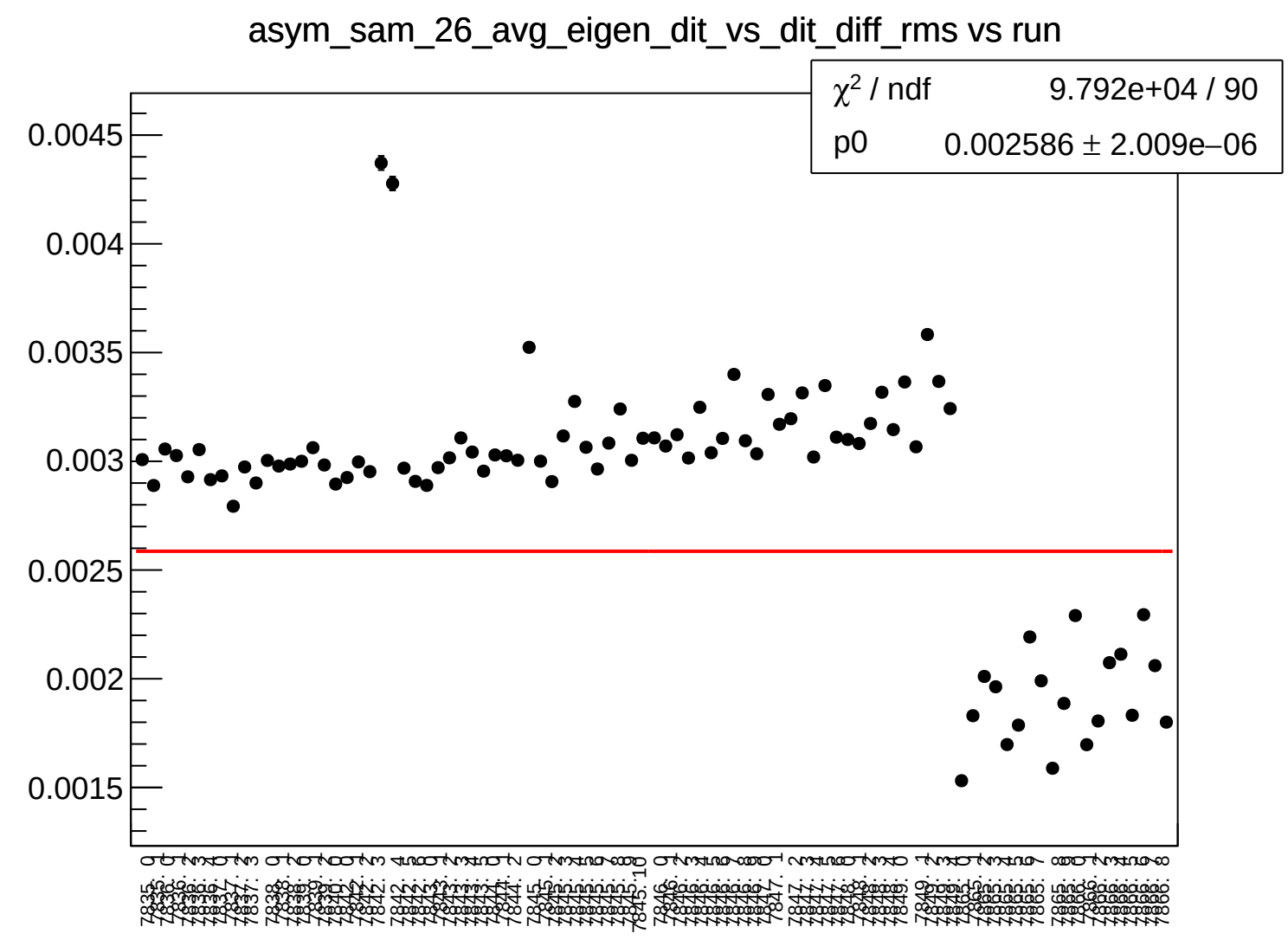

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.04 / 90
p0 −0.02678 ± 0.07934
pull
Entries 91
Mean 396.5
Std Dev 0

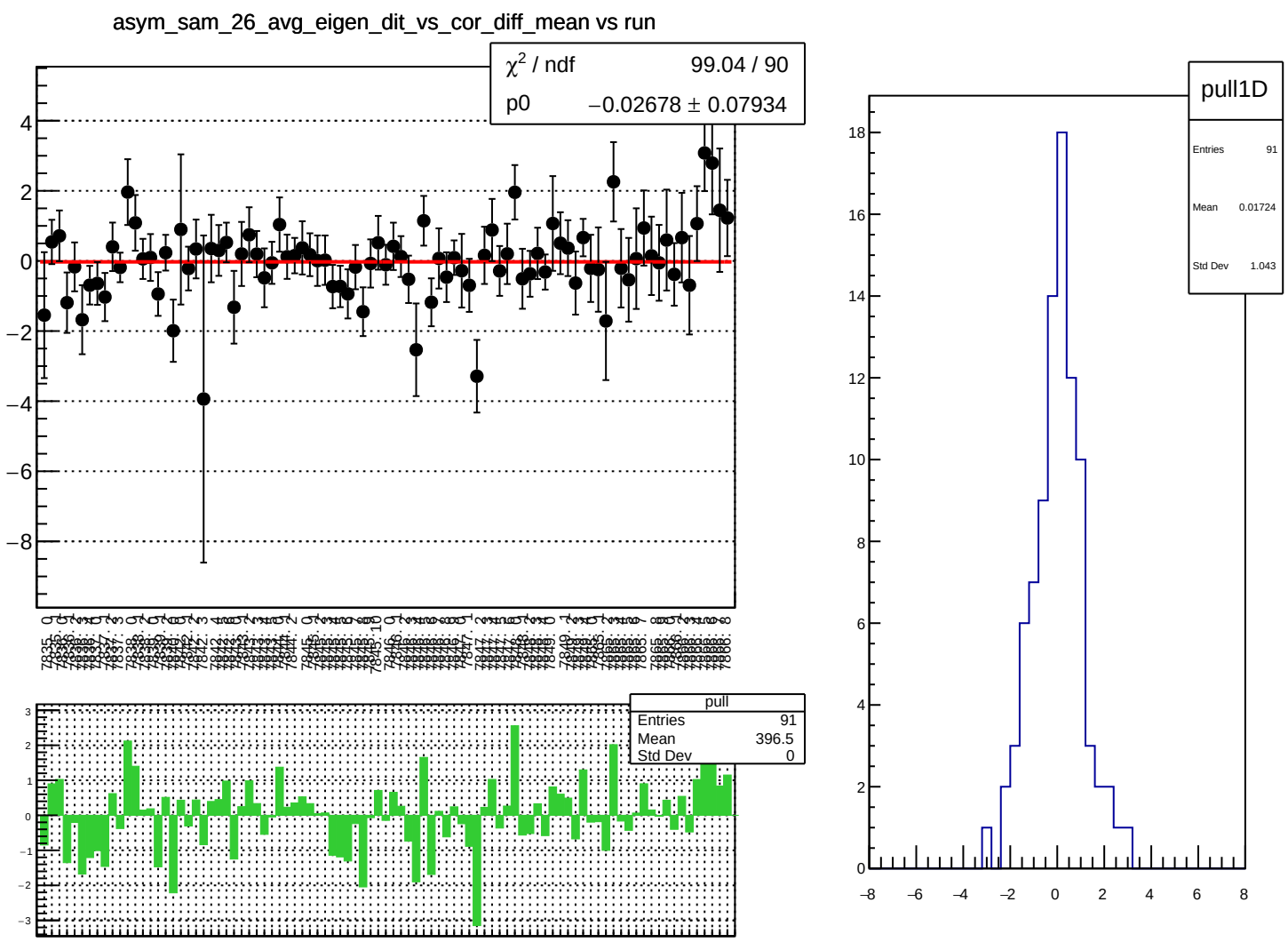

pull1D
Entries 91
Mean 0.01724
Std Dev 1.043

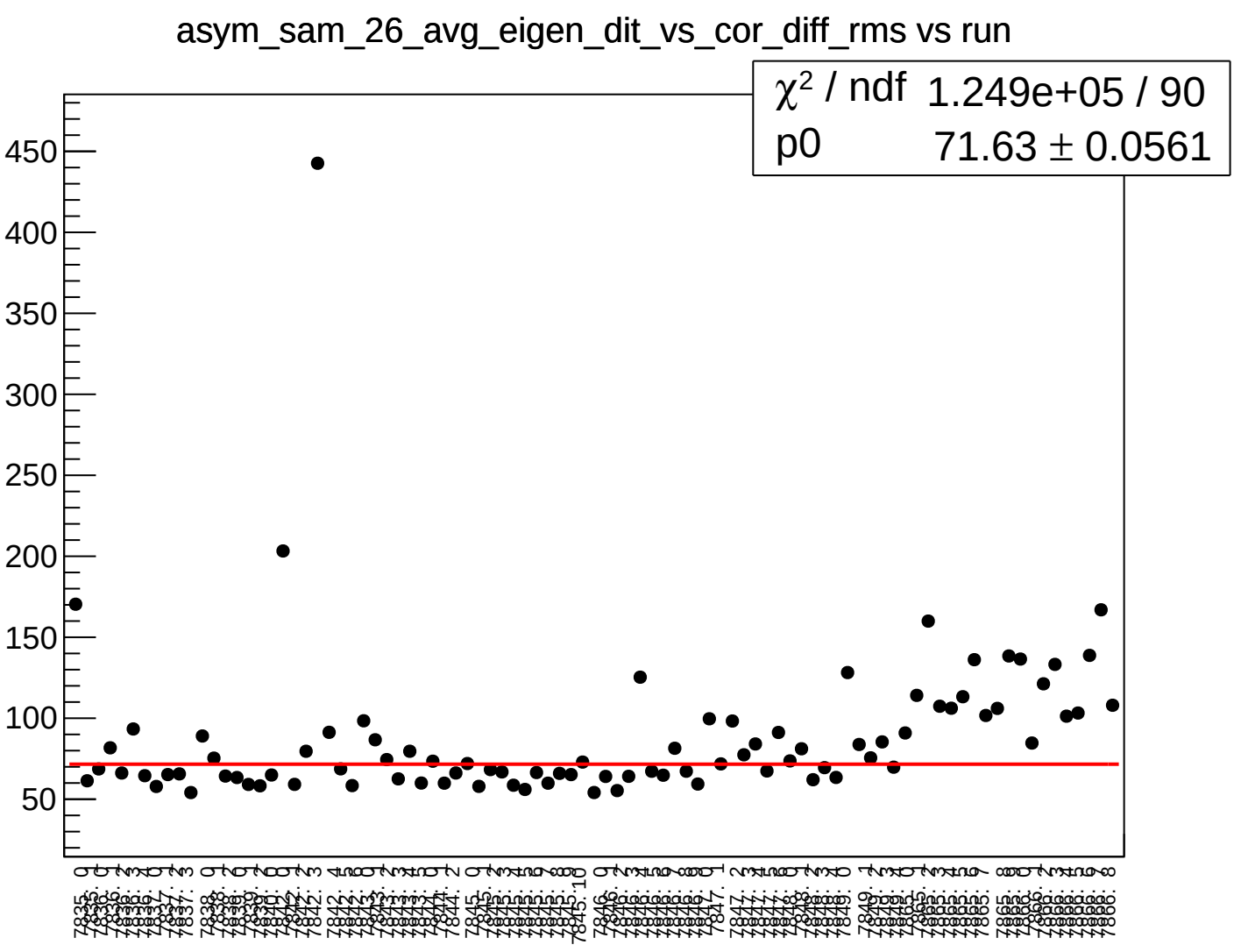

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 90
p0 71.63 ± 0.0561
450
400
350
300
250
200
150
100
50

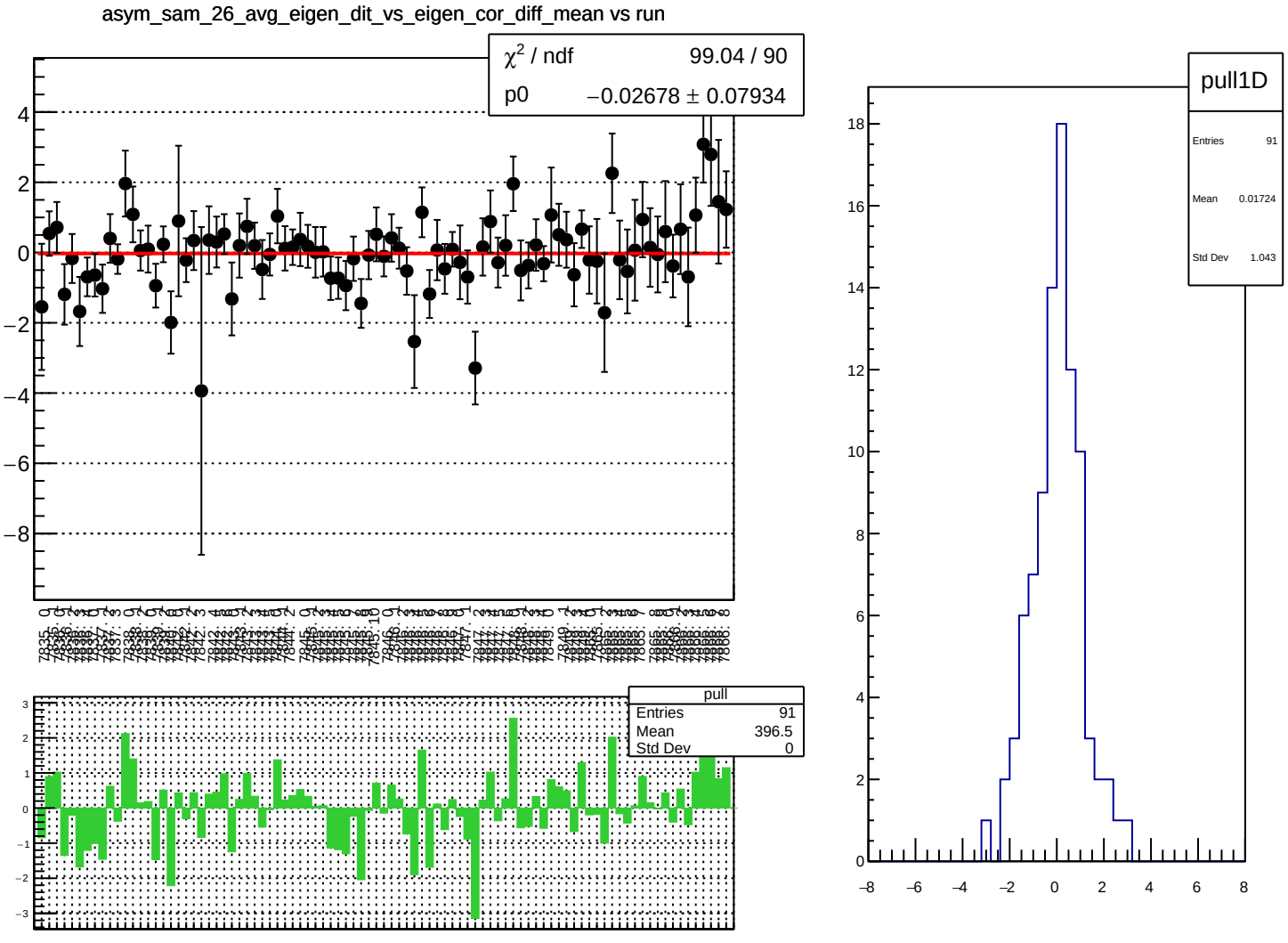

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 118.4 / 90
p0 3.251e−06 ± 2.841e−06
×10⁻³
pull
Entries 91
Mean 13.87
Std Dev 0

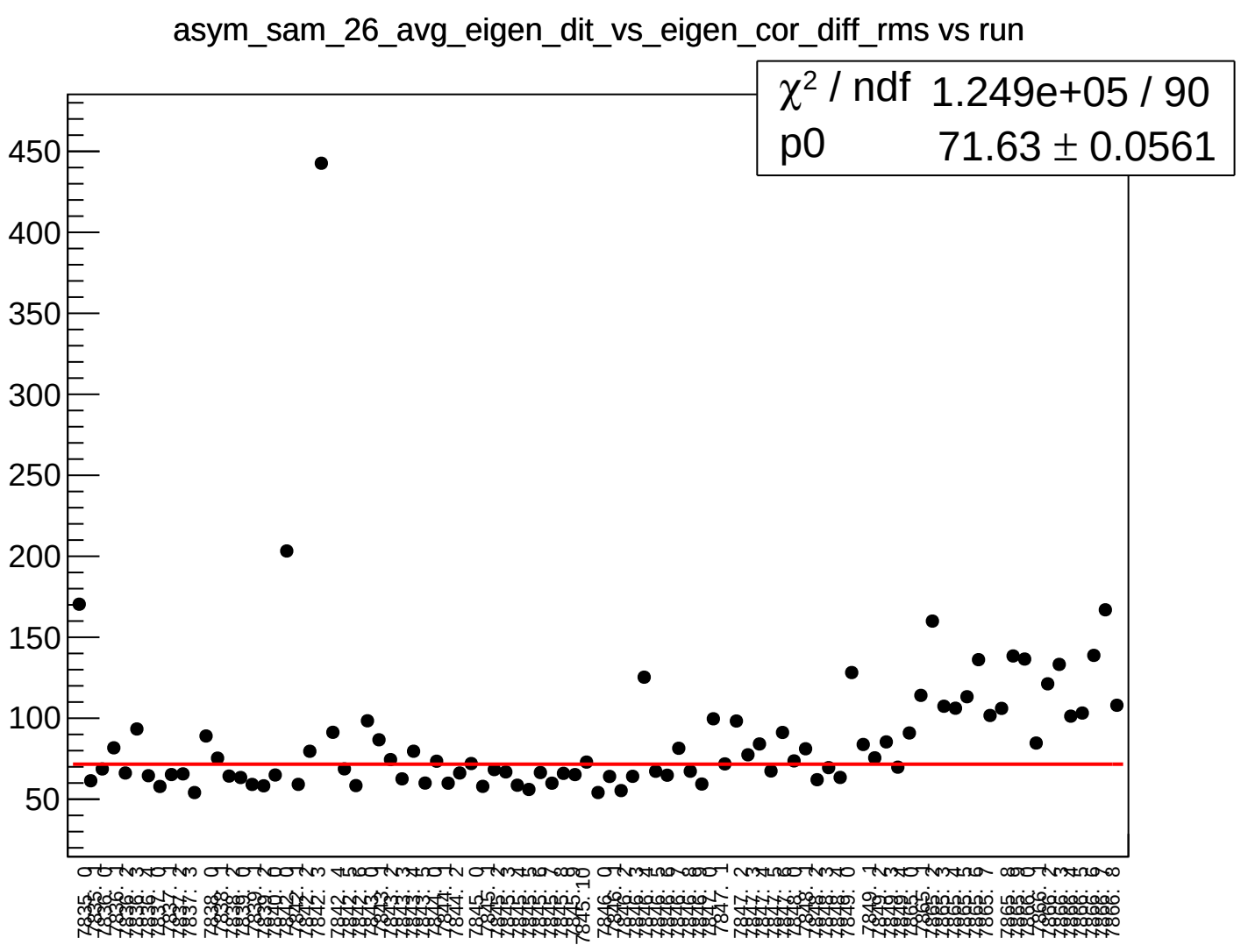

pull1D
Entries 91
Mean 0.01647
Std Dev 1.141

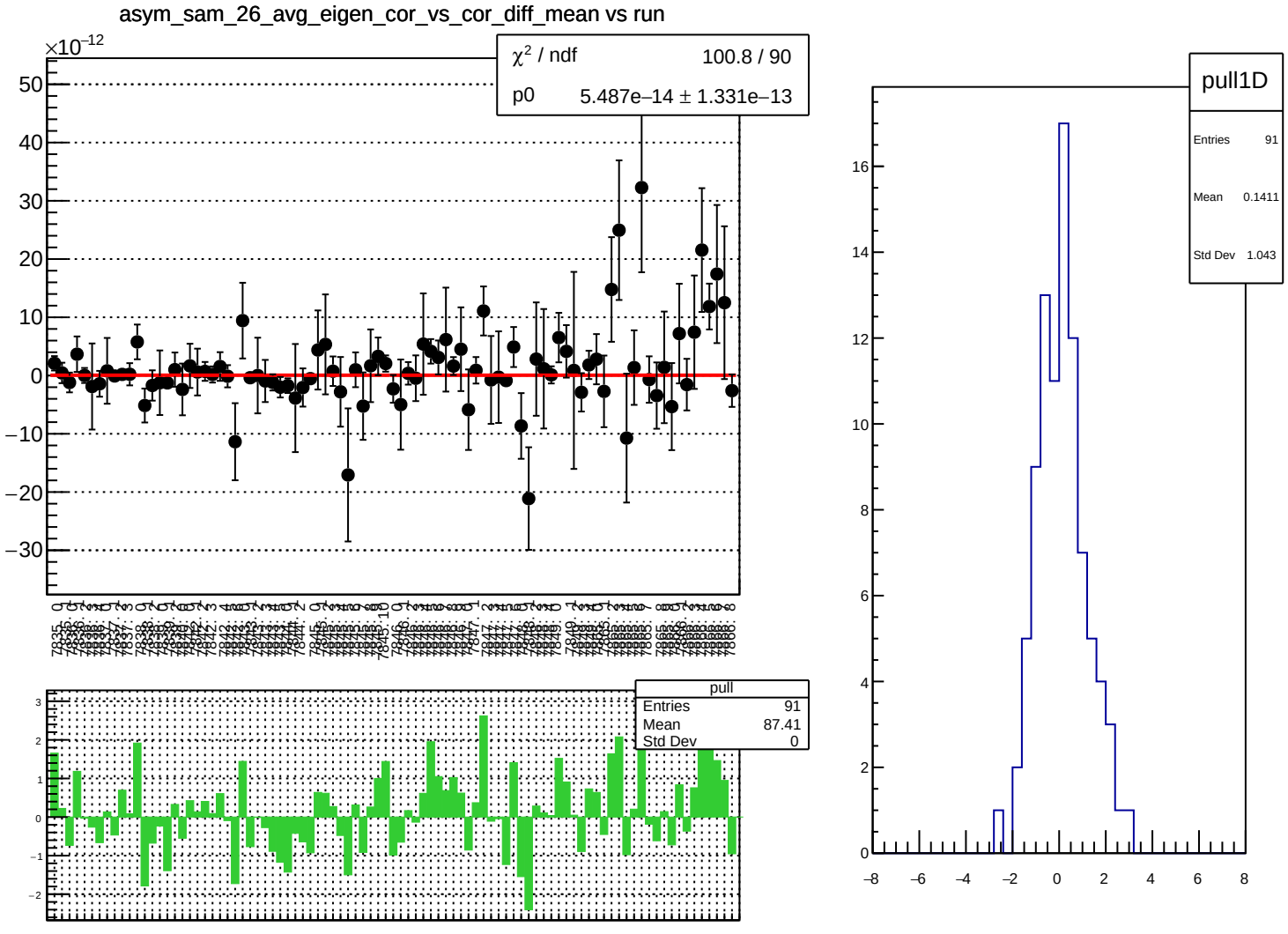

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.792e+04 / 90
p0 0.002586 ± 2.009e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

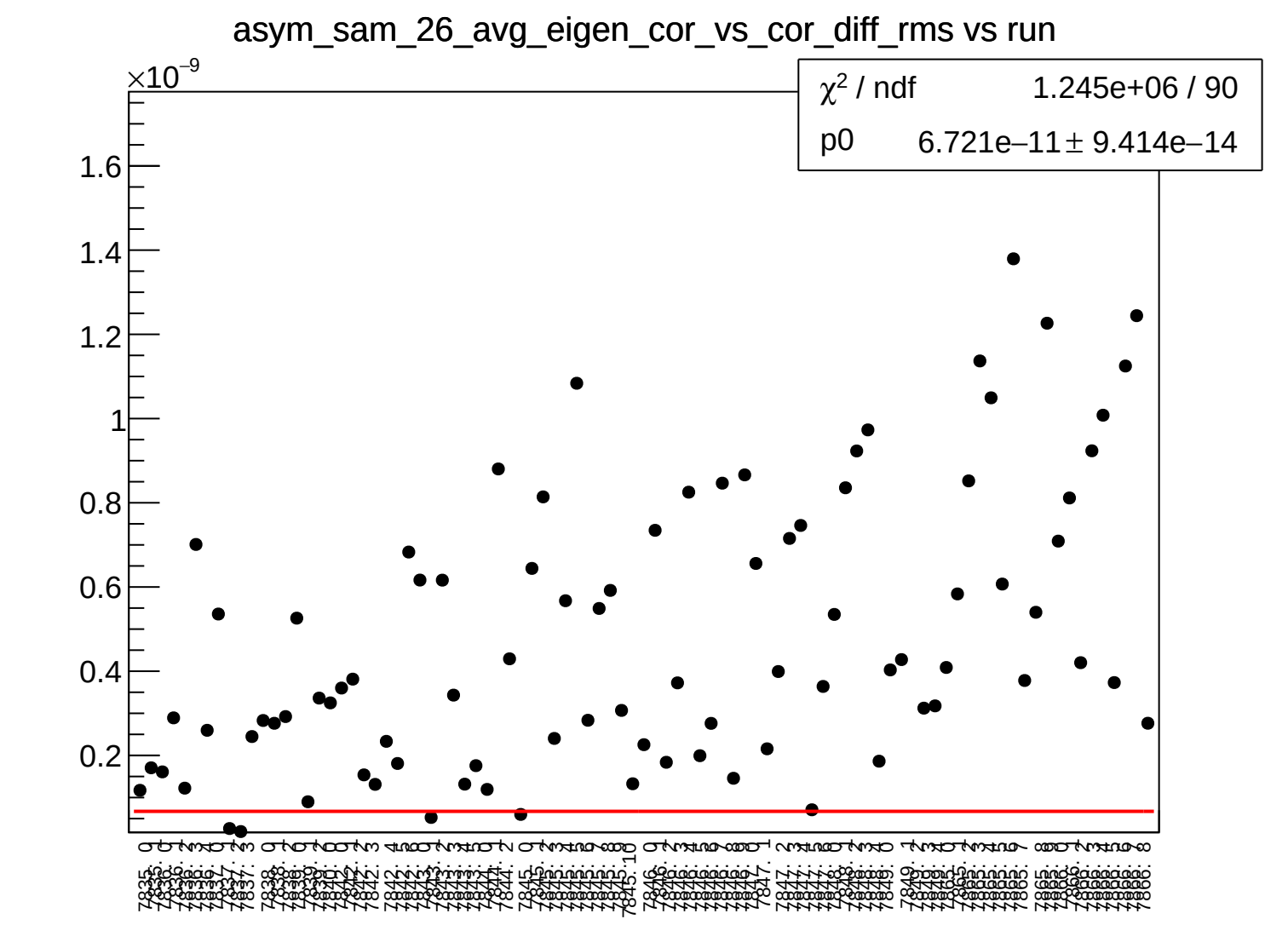

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.04 / 90
p0 −0.02678 ± 0.07934
pull
Entries 91
Mean 396.5
Std Dev 0
pull1D
Entries 91
Mean 0.01724
Std Dev 1.043

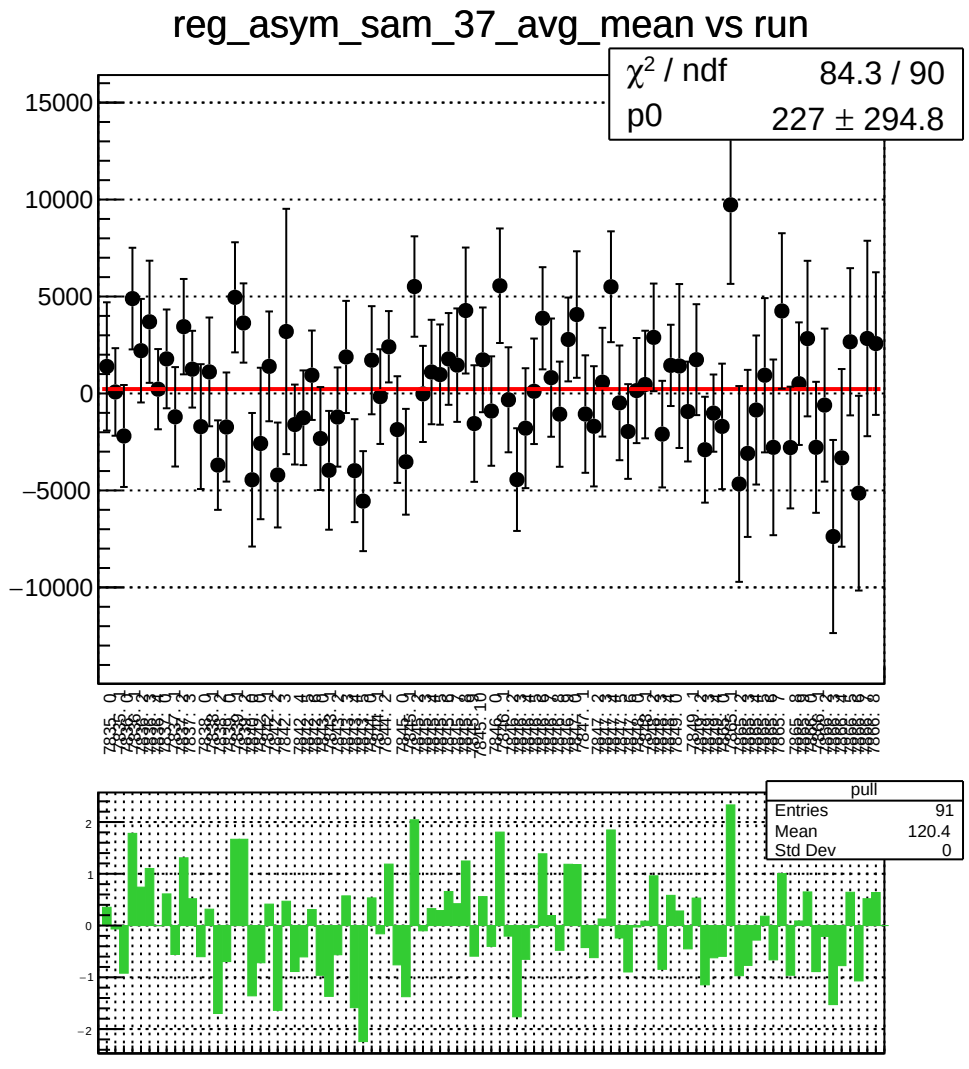

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 90
p0 71.63 ± 0.0561
450
400
350
300
250
200
150
100
50

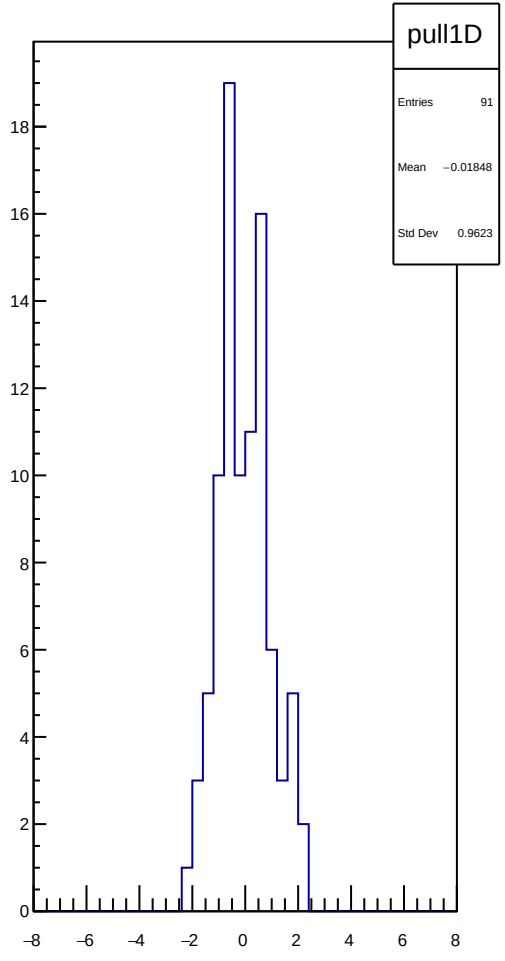

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.04 / 90
p0 −0.02678 ± 0.07934
pull
Entries 91
Mean 396.5
Std Dev 0
pull1D
Entries 91
Mean 0.01724
Std Dev 1.043

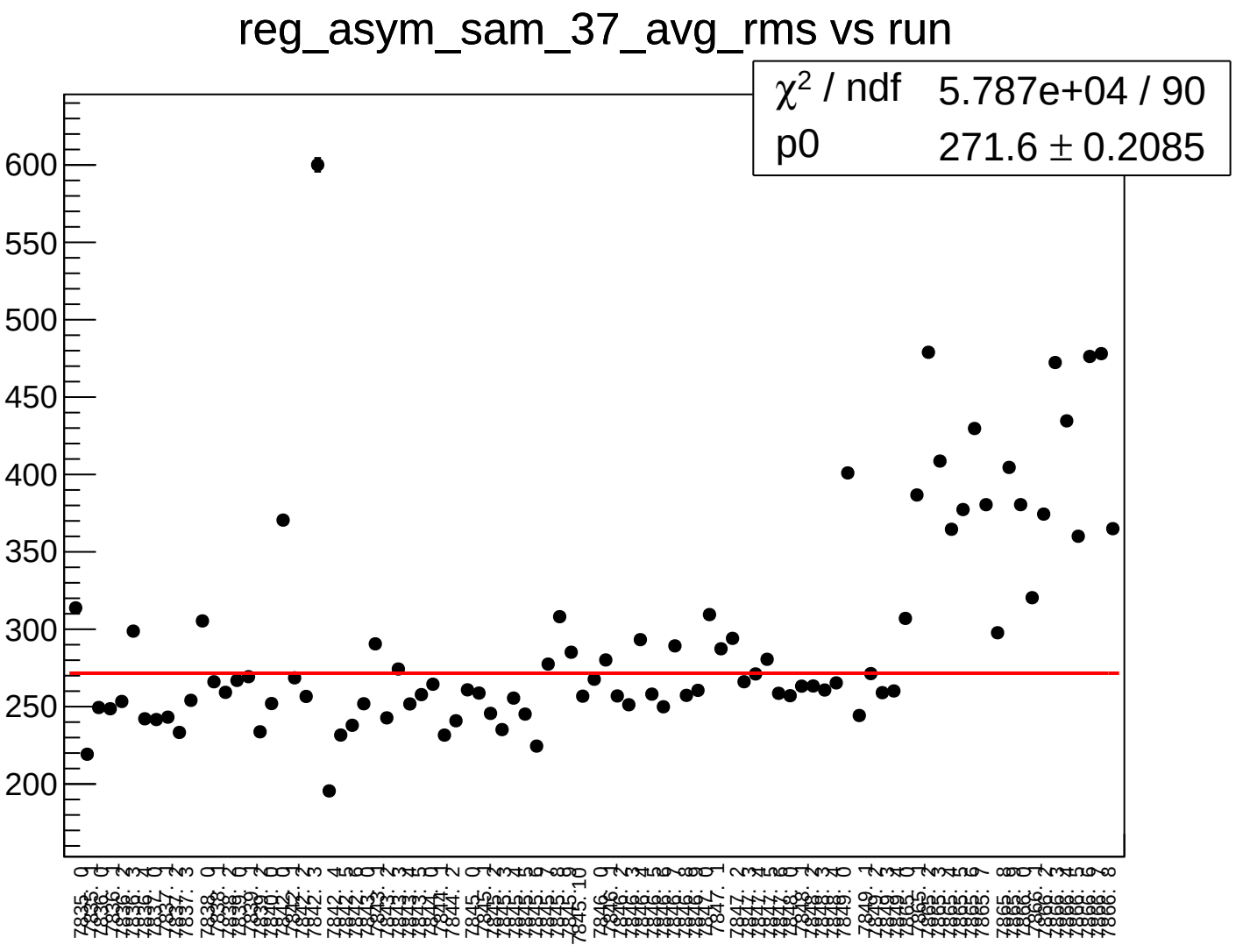

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 90
p0 71.63 ± 0.0561
450
400
350
300
250
200
150
100
50

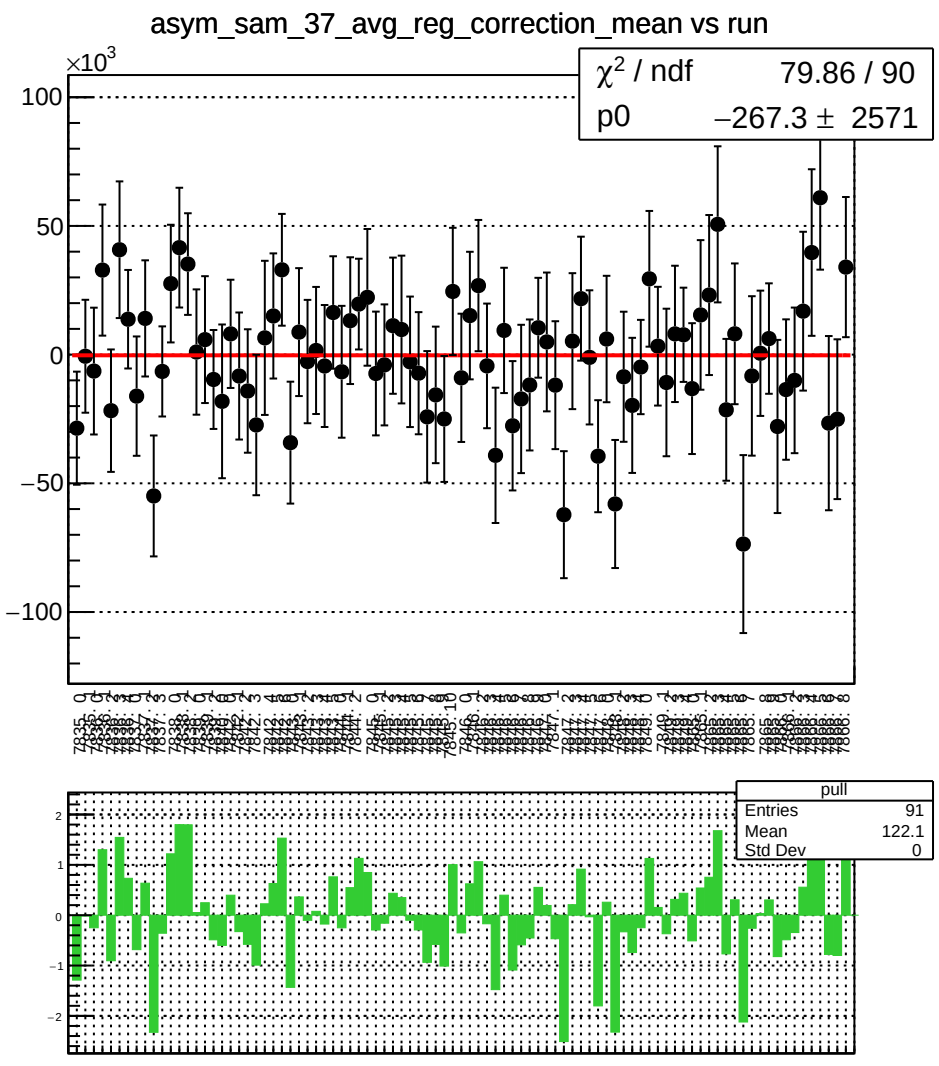

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.8 / 90
p0 5.487e−14 ± 1.331e−13
pull
Entries 91
Mean 87.41
Std Dev 0
pull1D
Entries 91
Mean 0.1411
Std Dev 1.043

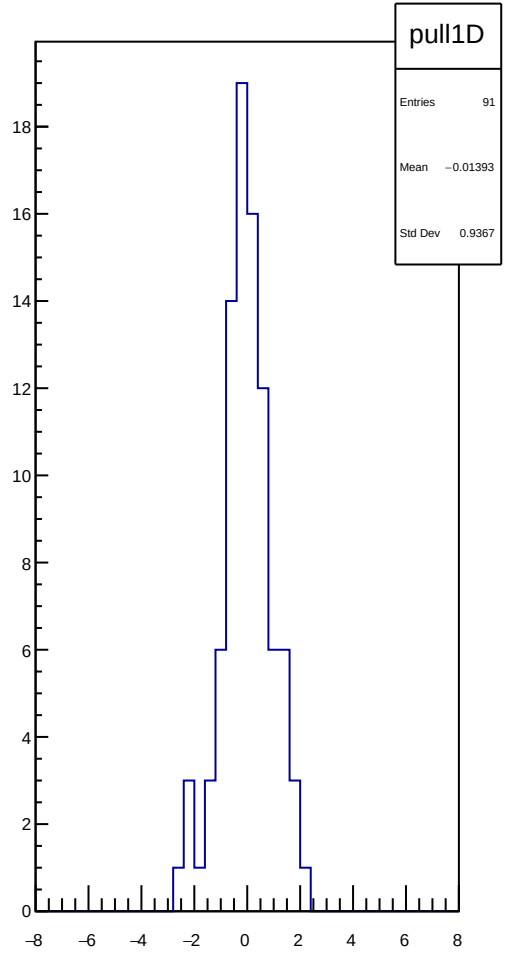

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.245e+06 / 90
p0 6.721e−11 ± 9.414e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2


reg_asym_sam_37_avg_mean vs run
χ² / ndf 84.3 / 90
p0 227 ± 294.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 120.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01848
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 5.787e+04 / 90
p0 271.6 ± 0.2085
600
550
500
450
400
350
300
250
200


asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.86 / 90
p0 −267.3 ± 2571
100
50
0
−50
−100
pull
Entries 91
Mean 122.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01393
Std Dev 0.9367
18
16
14
12
10
8
6
4
2
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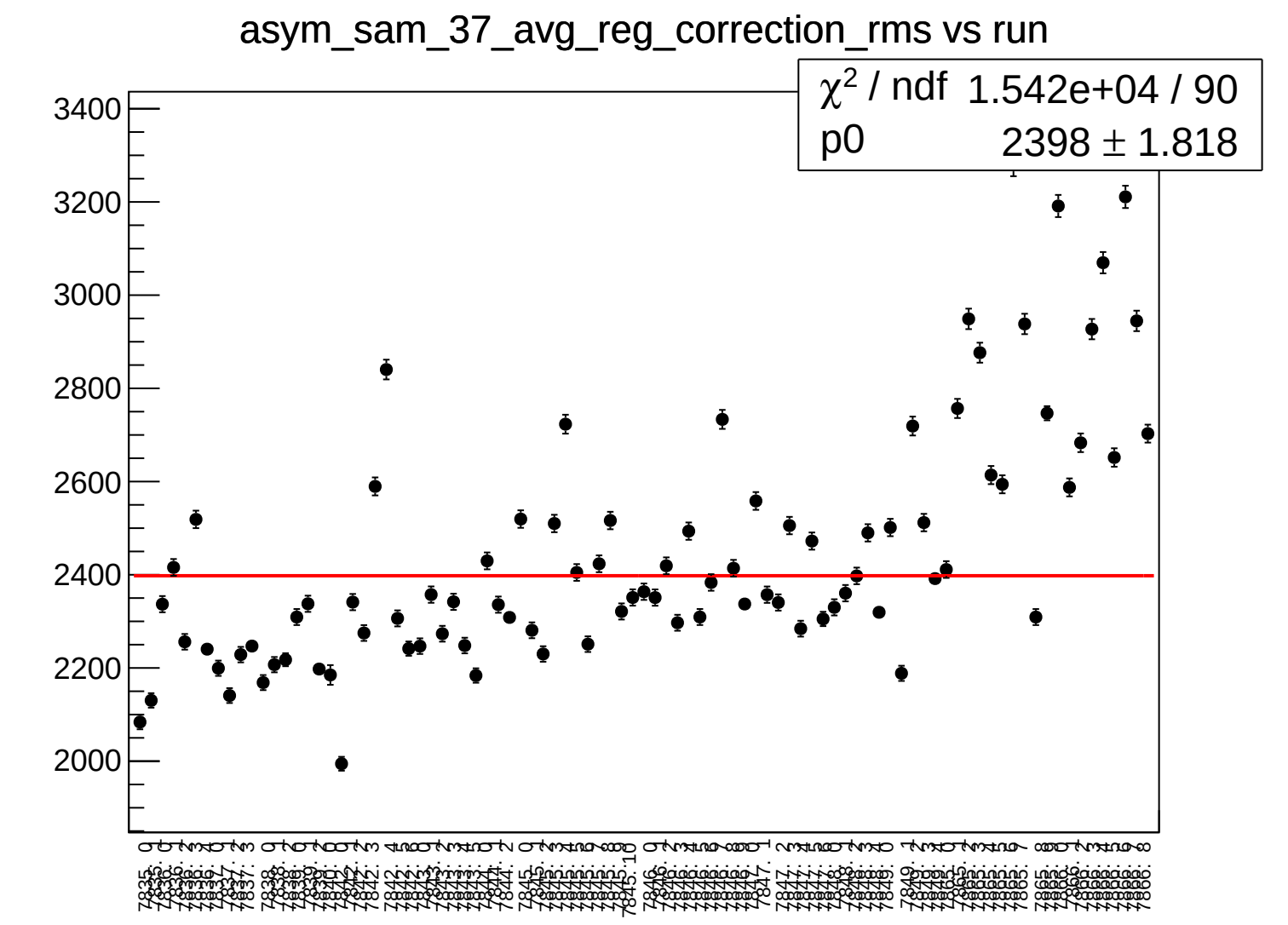
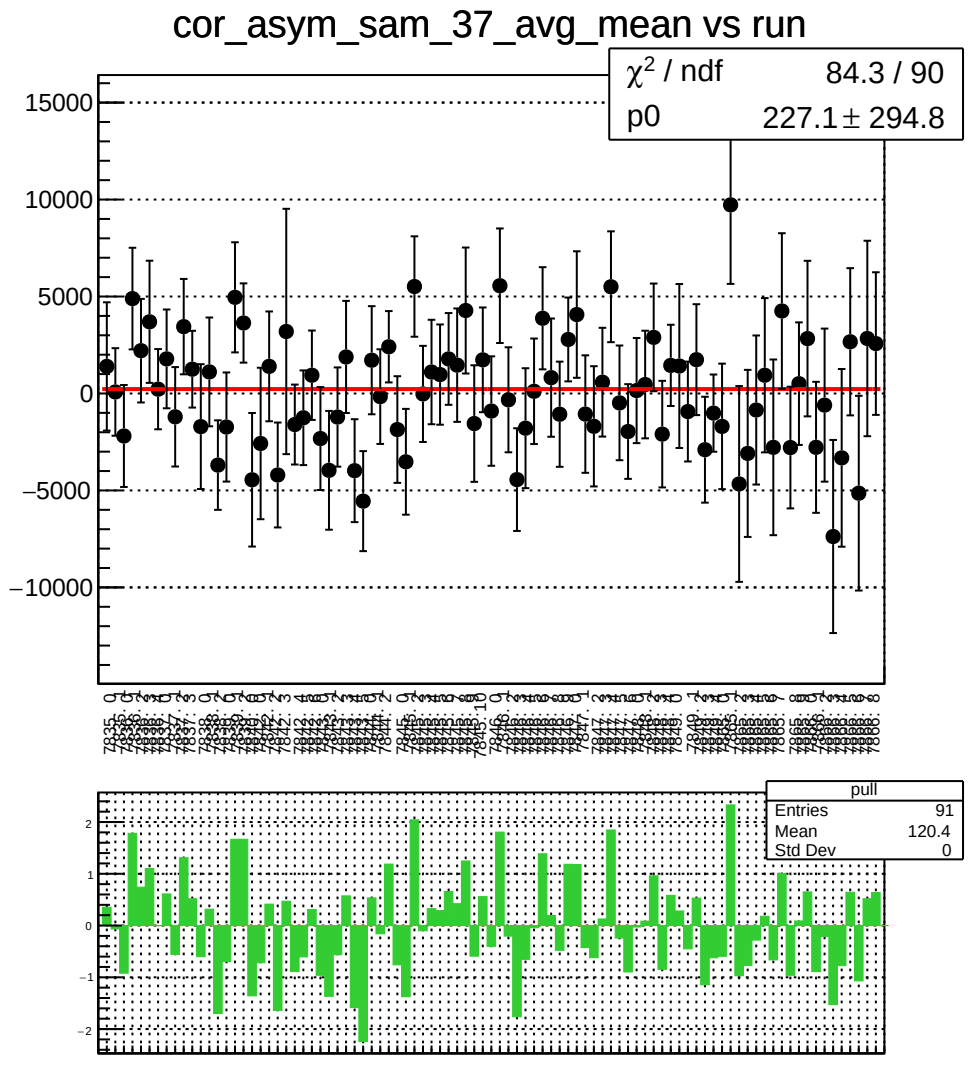
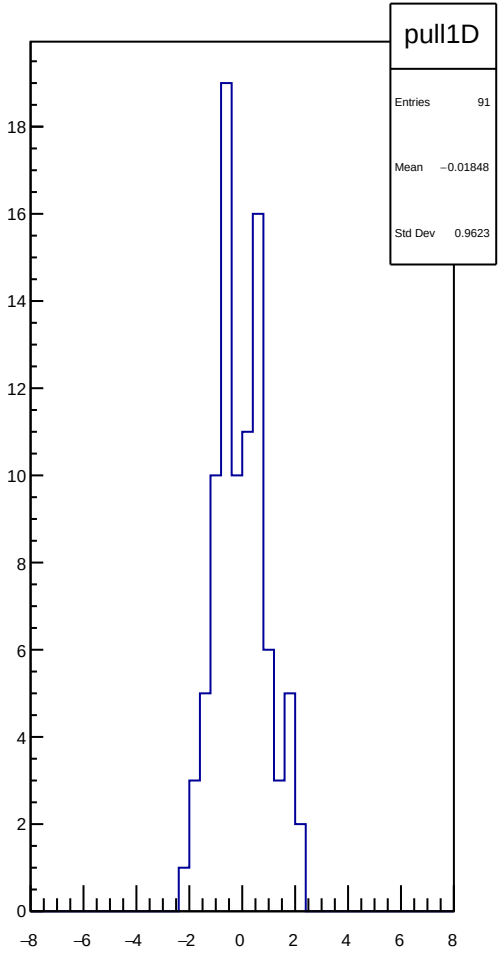
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.542e+04 / 90
p0 2398 ± 1.818
3400
3200
3000
2800
2600
2400
2200
2000


cor_asym_sam_37_avg_mean vs run
χ² / ndf 84.3 / 90
p0 227.1 ± 294.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 120.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01848
Std Dev 0.9623
18
16
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8
6
4
2
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−8
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2
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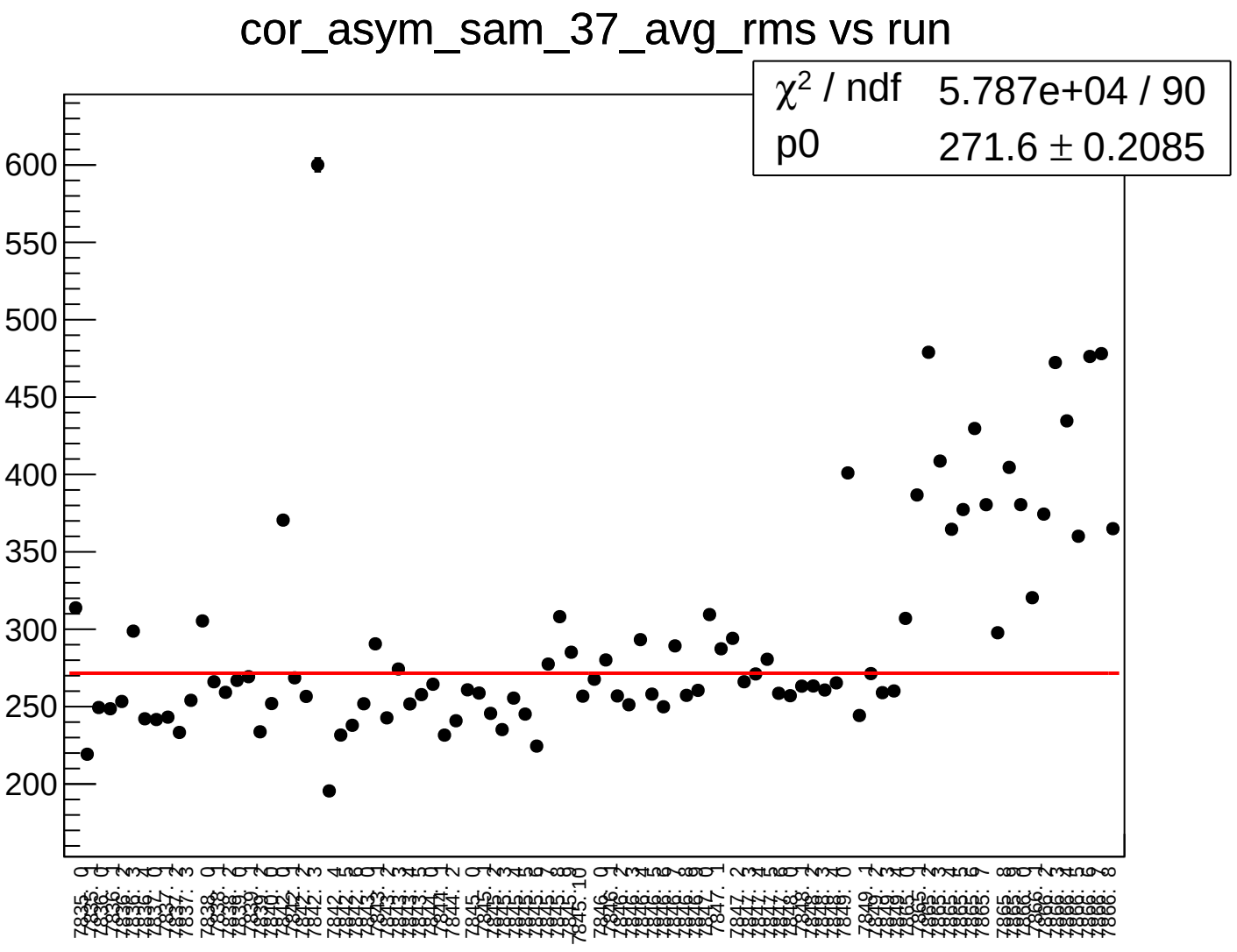
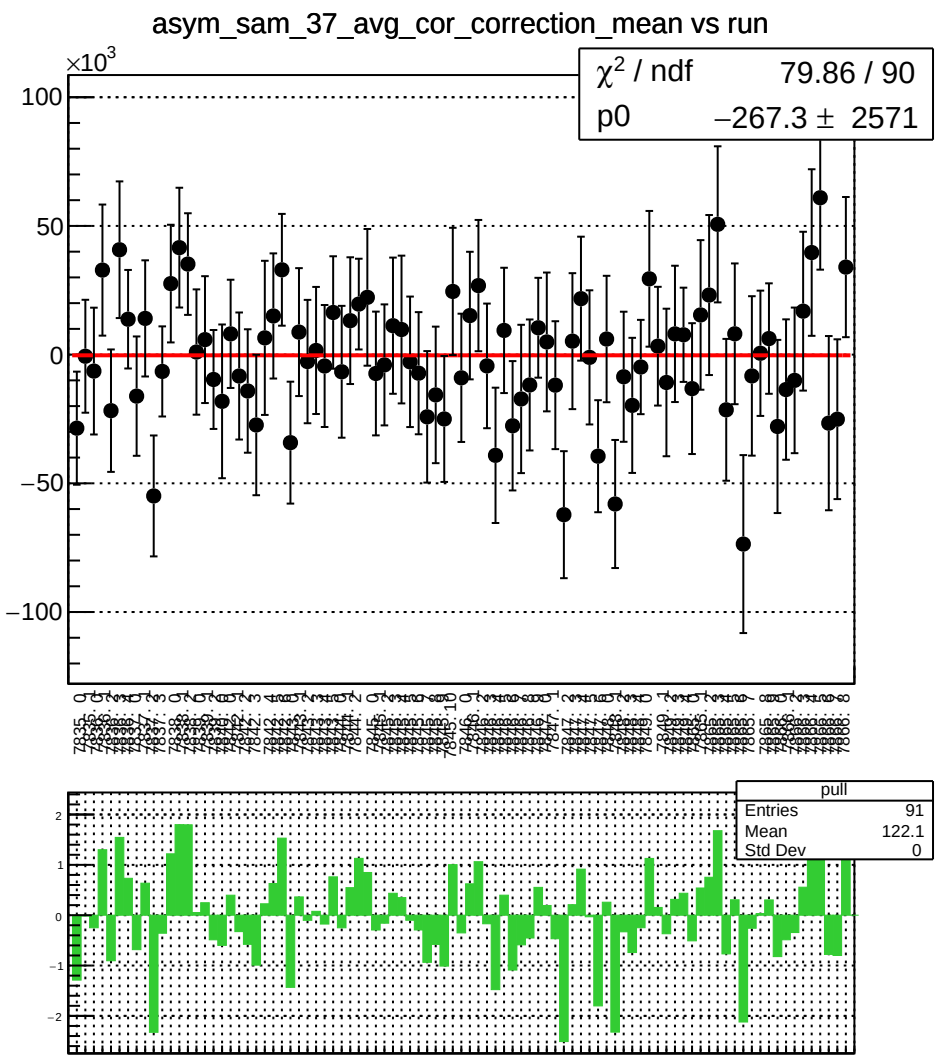
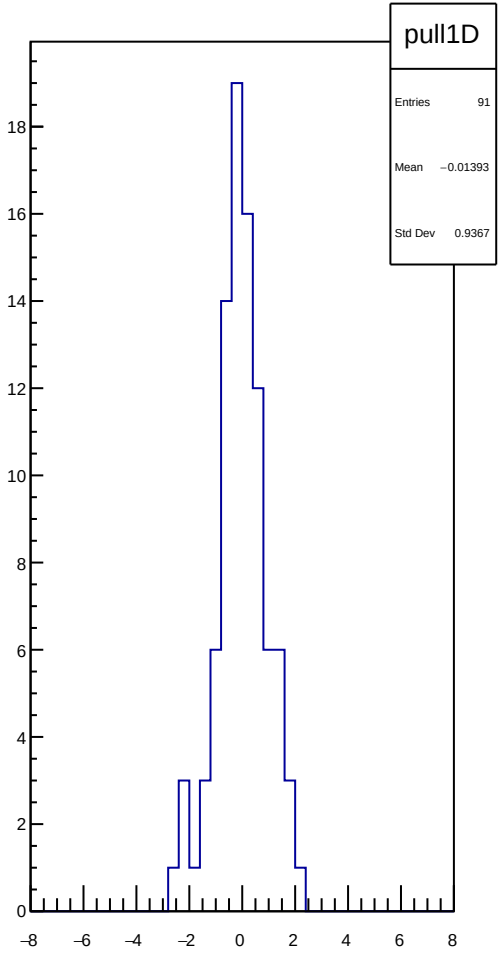
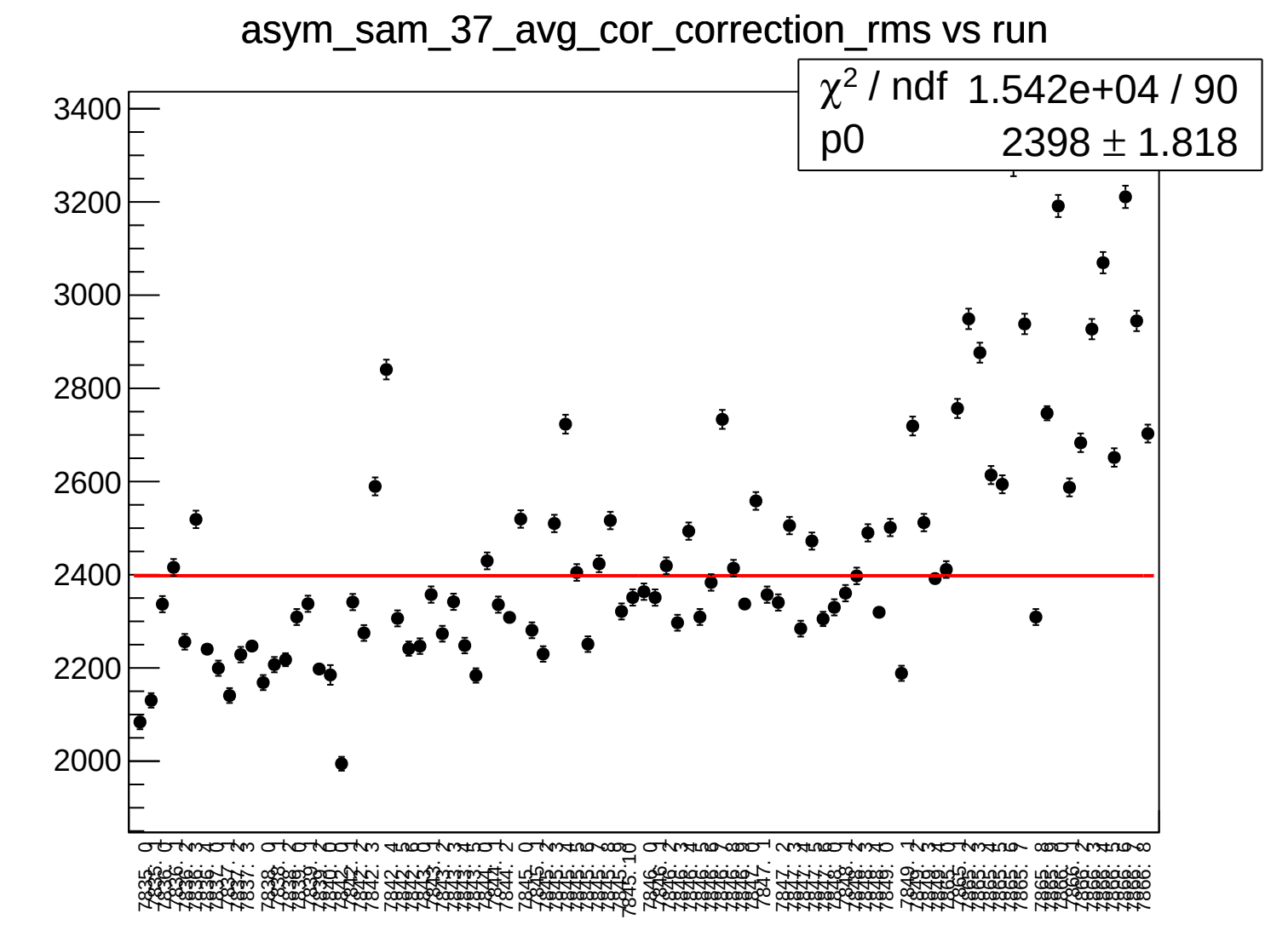
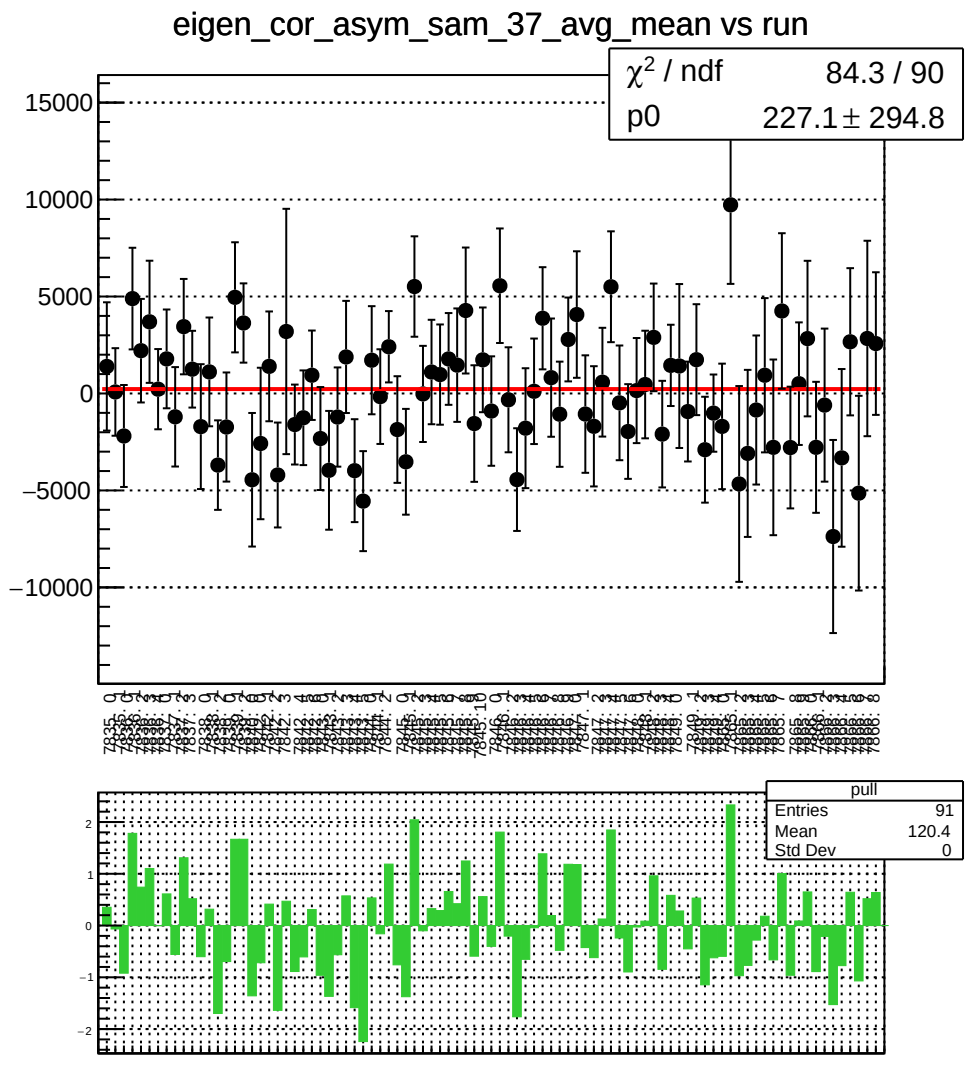
6
8

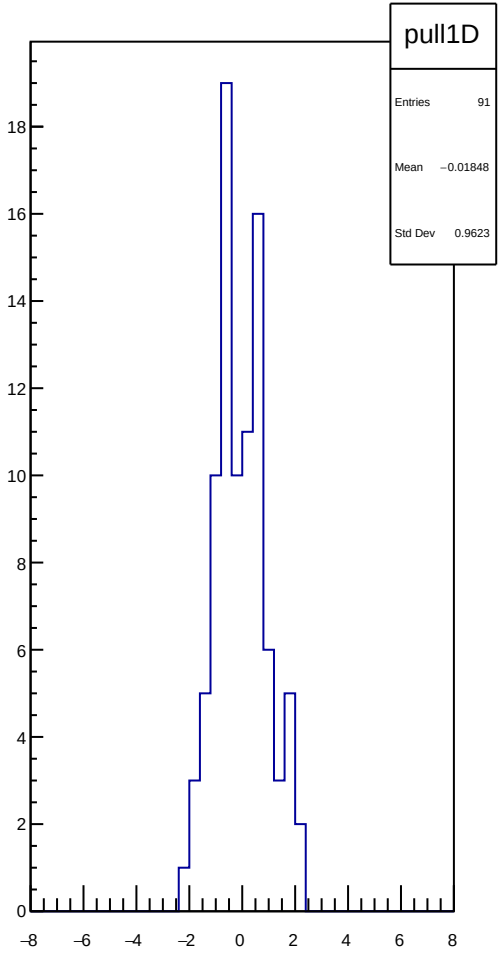

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 5.787e+04 / 90
p0 271.6 ± 0.2085
600
550
500
450
400
350
300
250
200


asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.86 / 90
p0 −267.3 ± 2571
pull
Entries 91
Mean 122.1
Std Dev 0


pull1D
Entries 91
Mean −0.01393
Std Dev 0.9367


asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.542e+04 / 90
p0 2398 ± 1.818
3400
3200
3000
2800
2600
2400
2200
2000


eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 84.3 / 90
p0 227.1 ± 294.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 120.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01848
Std Dev 0.9623
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16
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10
8
6
4
2
0
−8
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−4
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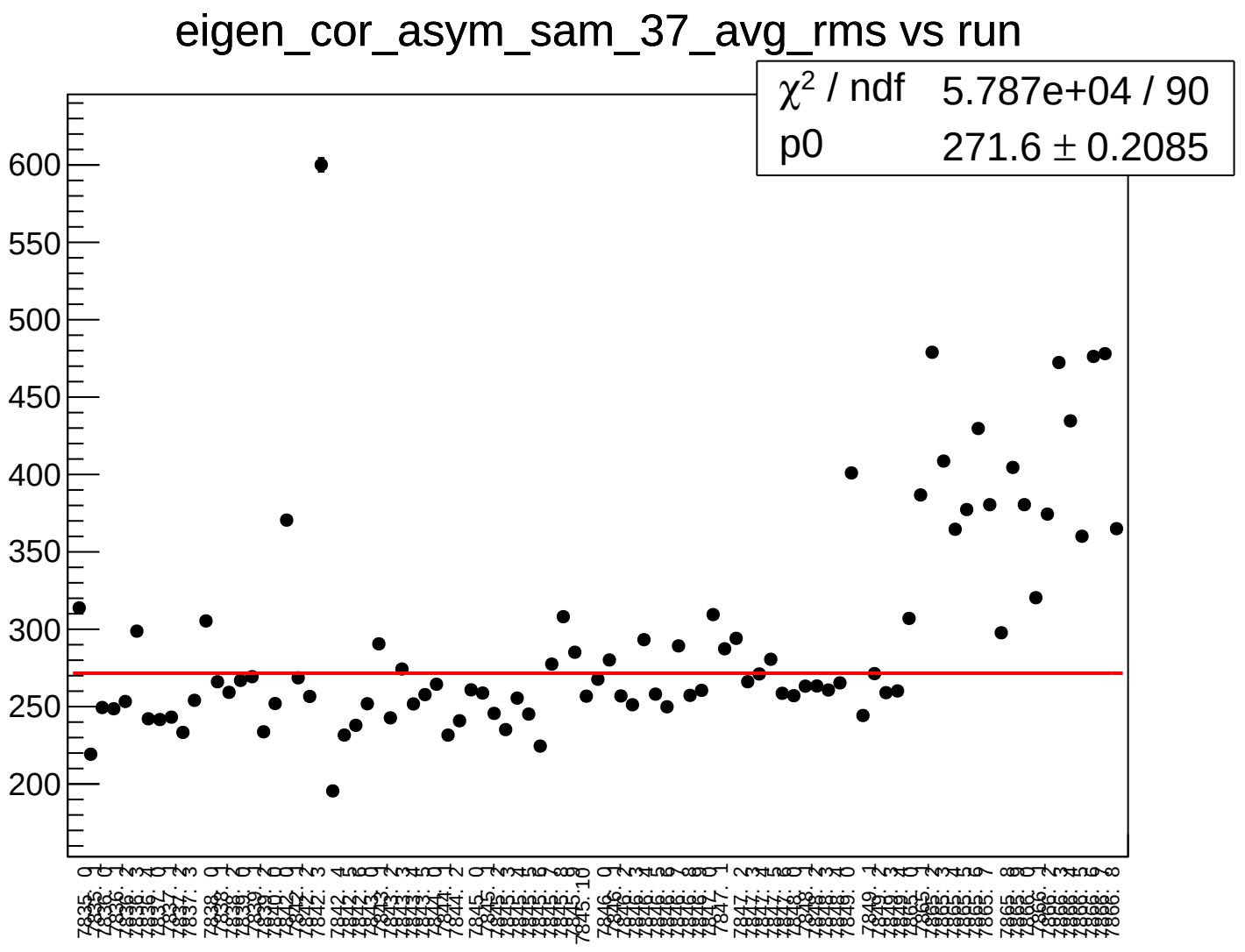
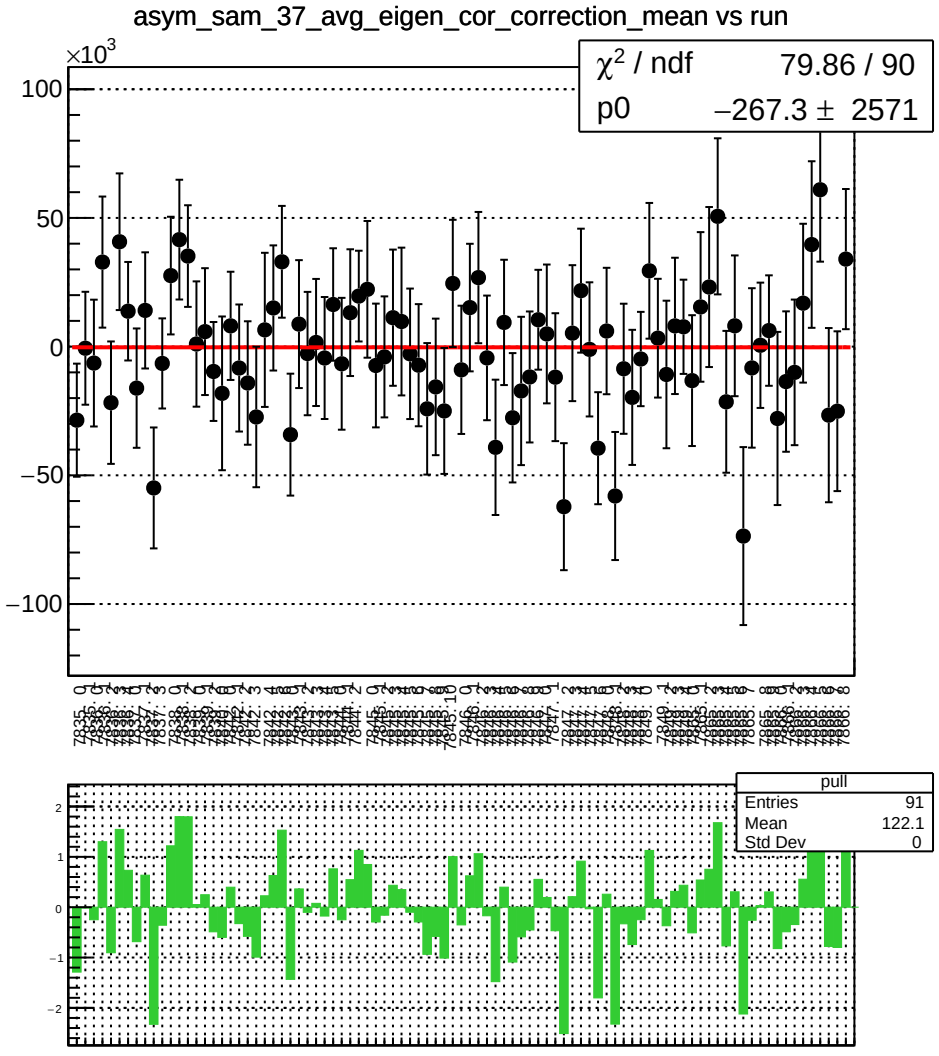
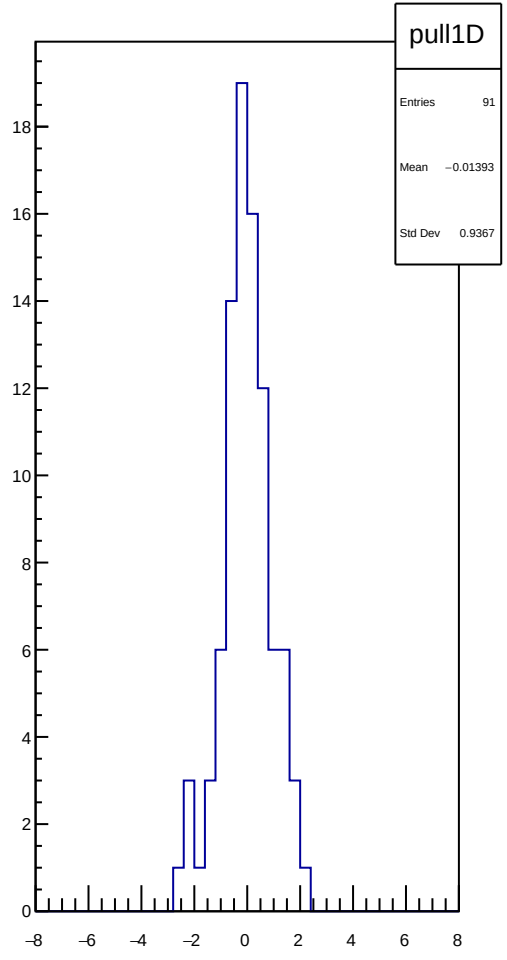
0
2
4
6
8


eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 5.787e+04 / 90
p0 271.6 ± 0.2085
600
550
500
450
400
350
300
250
200


asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.86 / 90
p0 −267.3 ± 2571
100
50
0
−50
−100
pull
Entries 91
Mean 122.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01393
Std Dev 0.9367
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10
8
6
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−8
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2
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6
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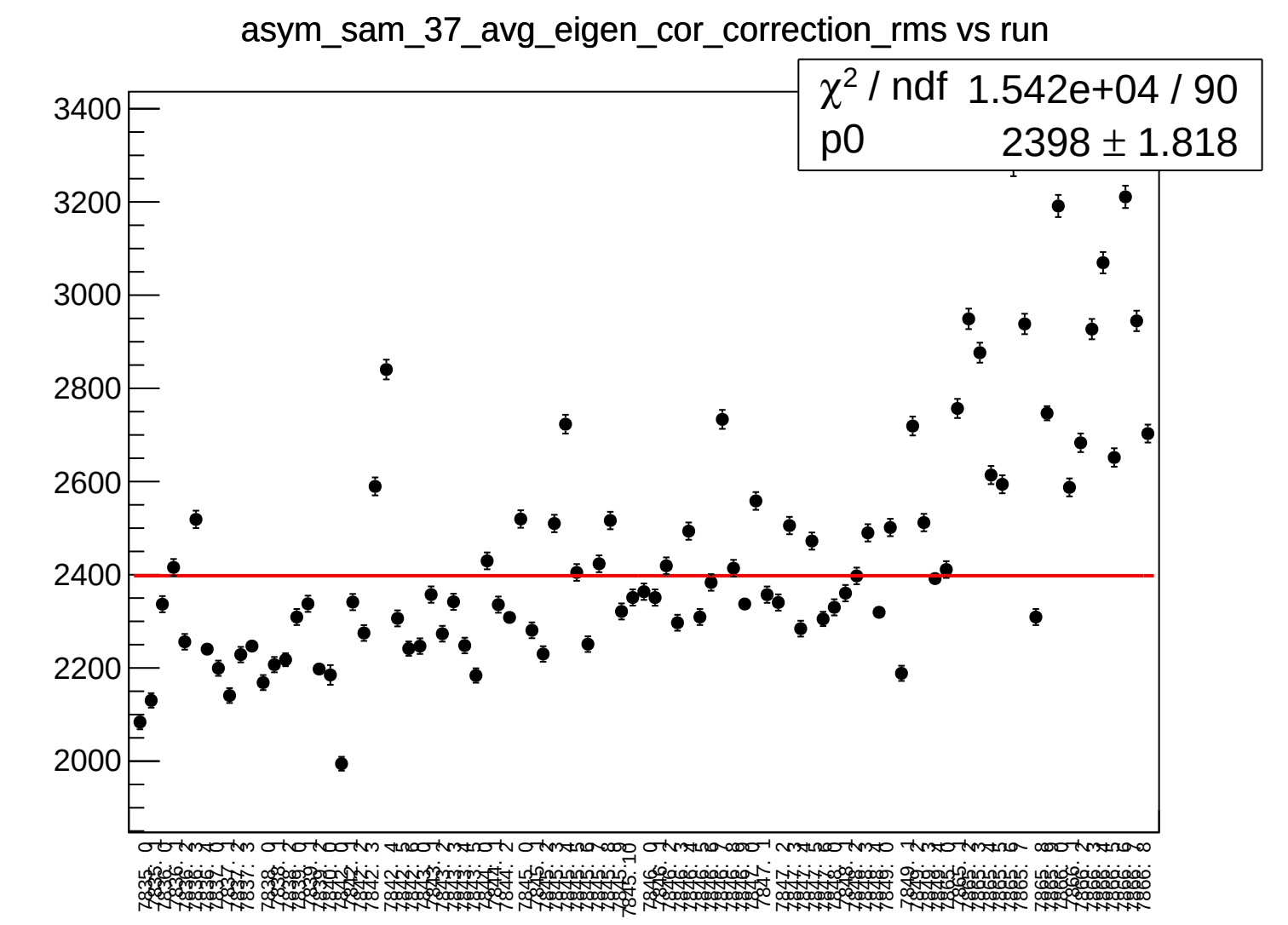
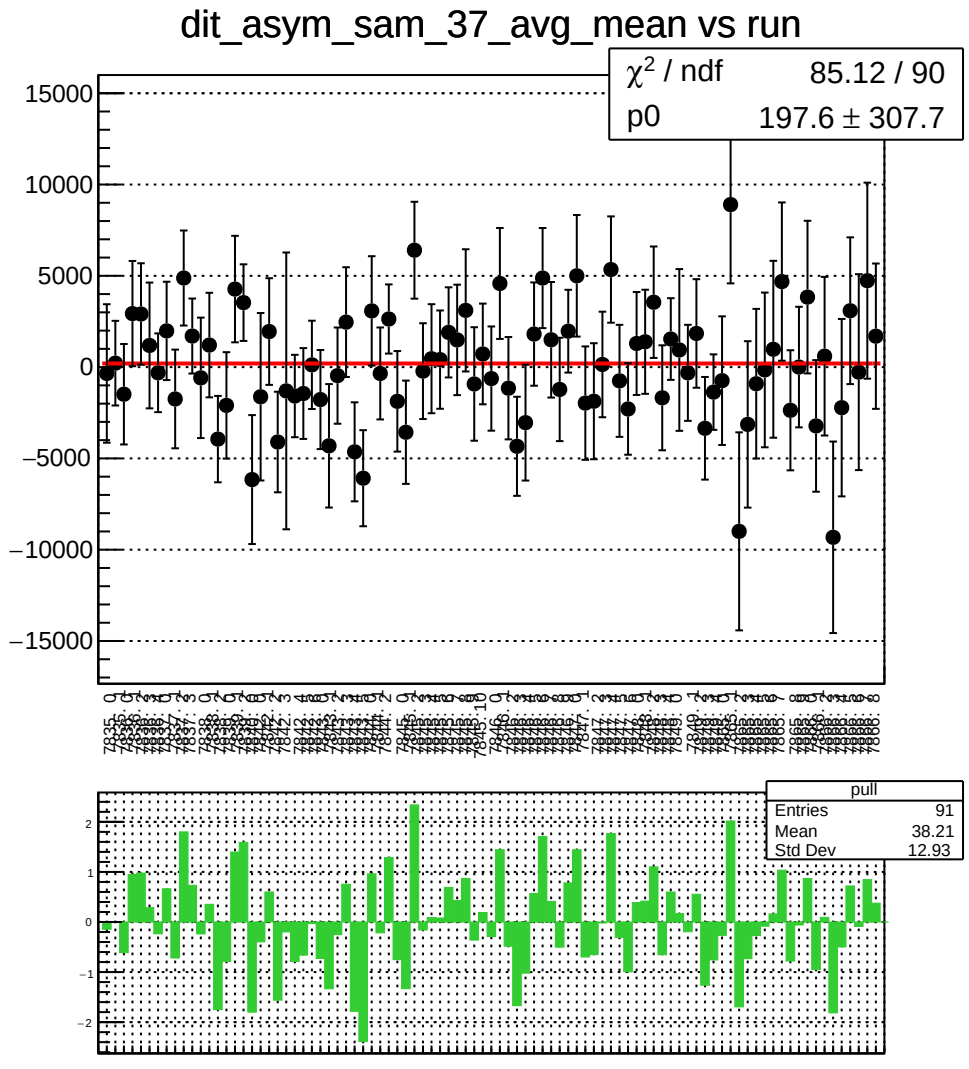
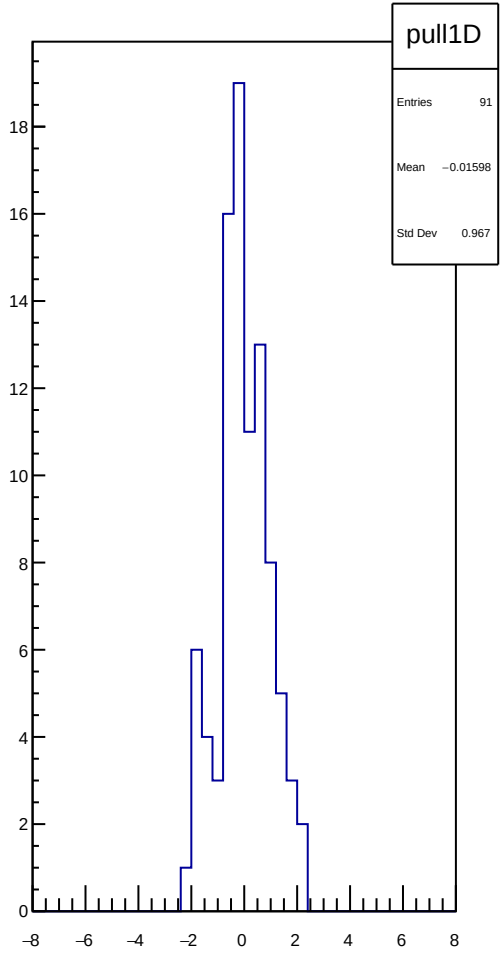

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.542e+04 / 90
p0 2398 ± 1.818
3400
3200
3000
2800
2600
2400
2200
2000


dit_asym_sam_37_avg_mean vs run
χ² / ndf 85.12 / 90
p0 197.6 ± 307.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 38.21
Std Dev 12.93
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01598
Std Dev 0.967
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16
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12
10
8
6
4
2
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−8
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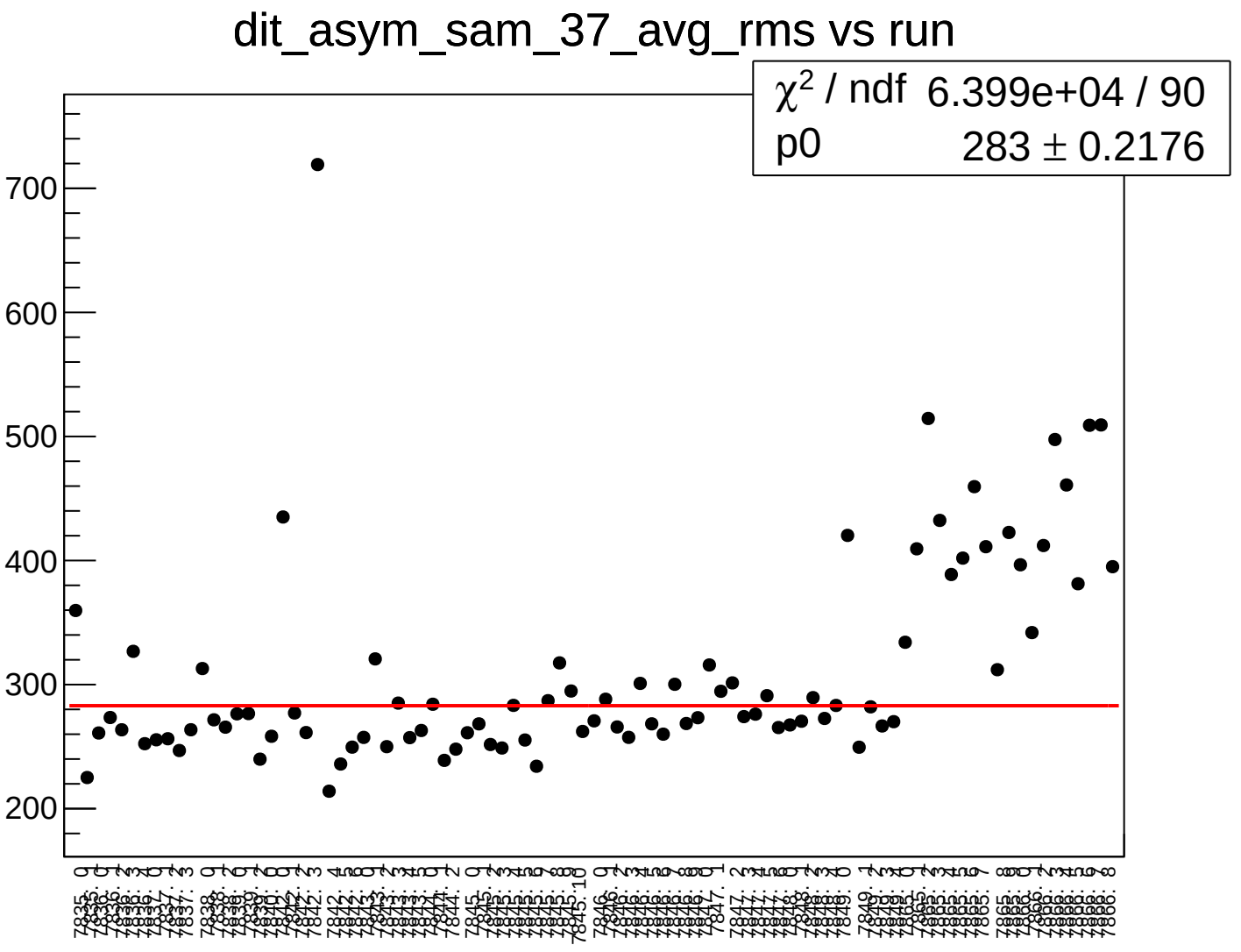
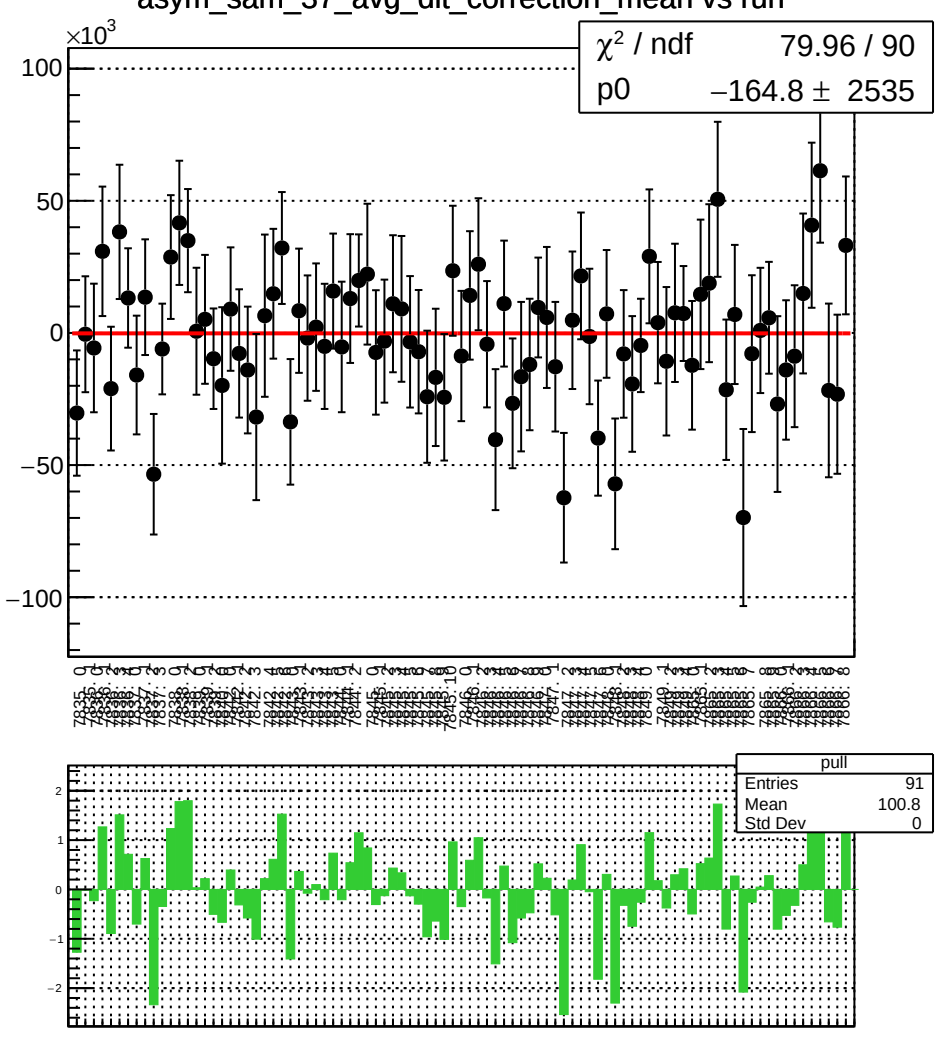
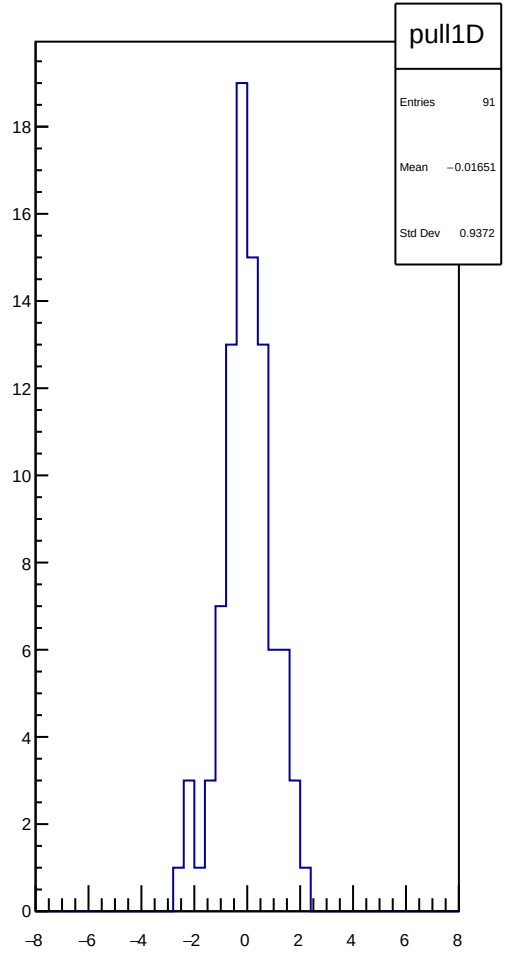
−4
−2
0
2
4
6
8


dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 6.399e+04 / 90
p0 283 ± 0.2176
700
600
500
400
300
200


asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.96 / 90
p0 −164.8 ± 2535
100
50
0
−50
−100
pull
Entries 91
Mean 100.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01651
Std Dev 0.9372
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16
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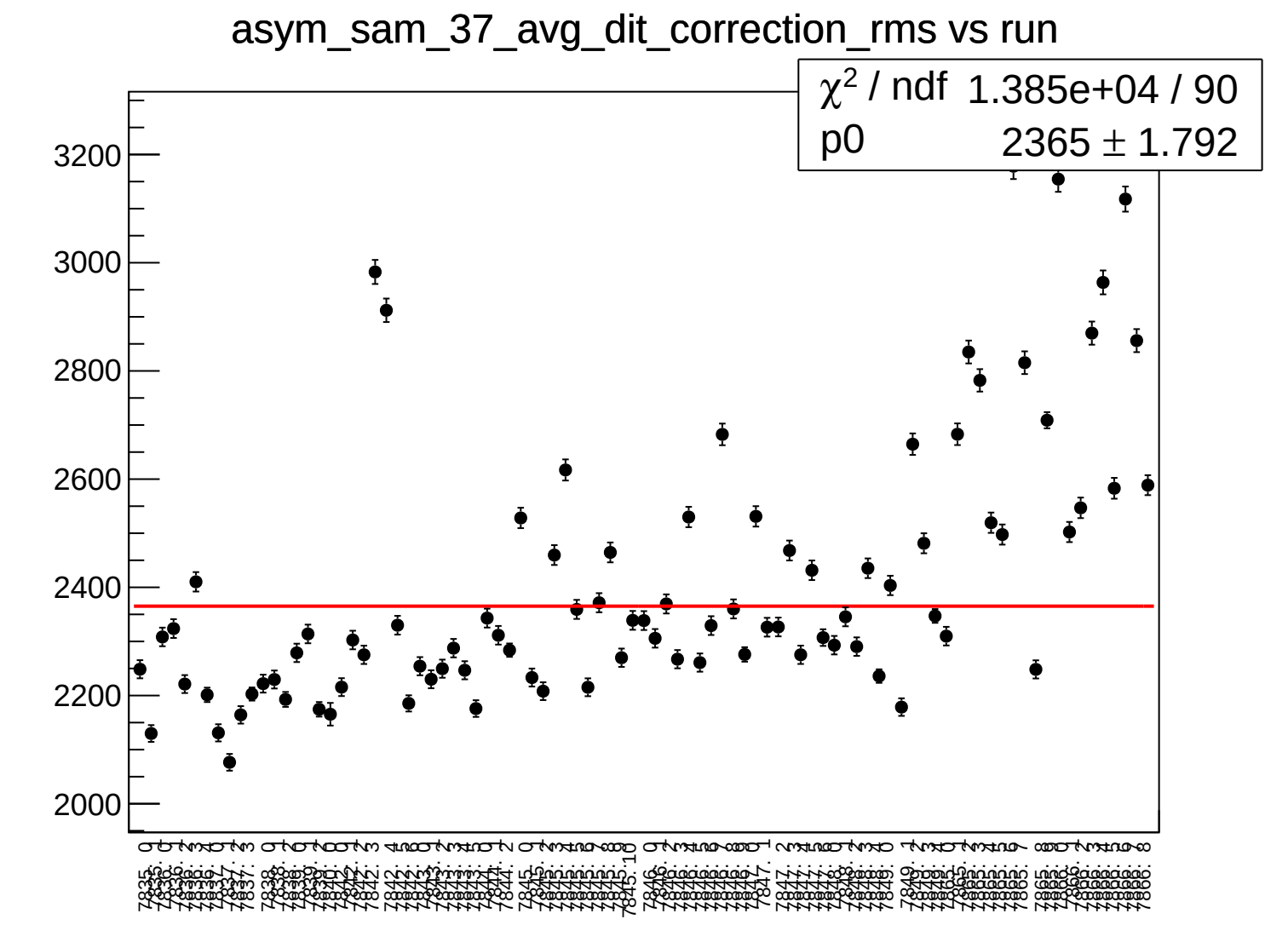
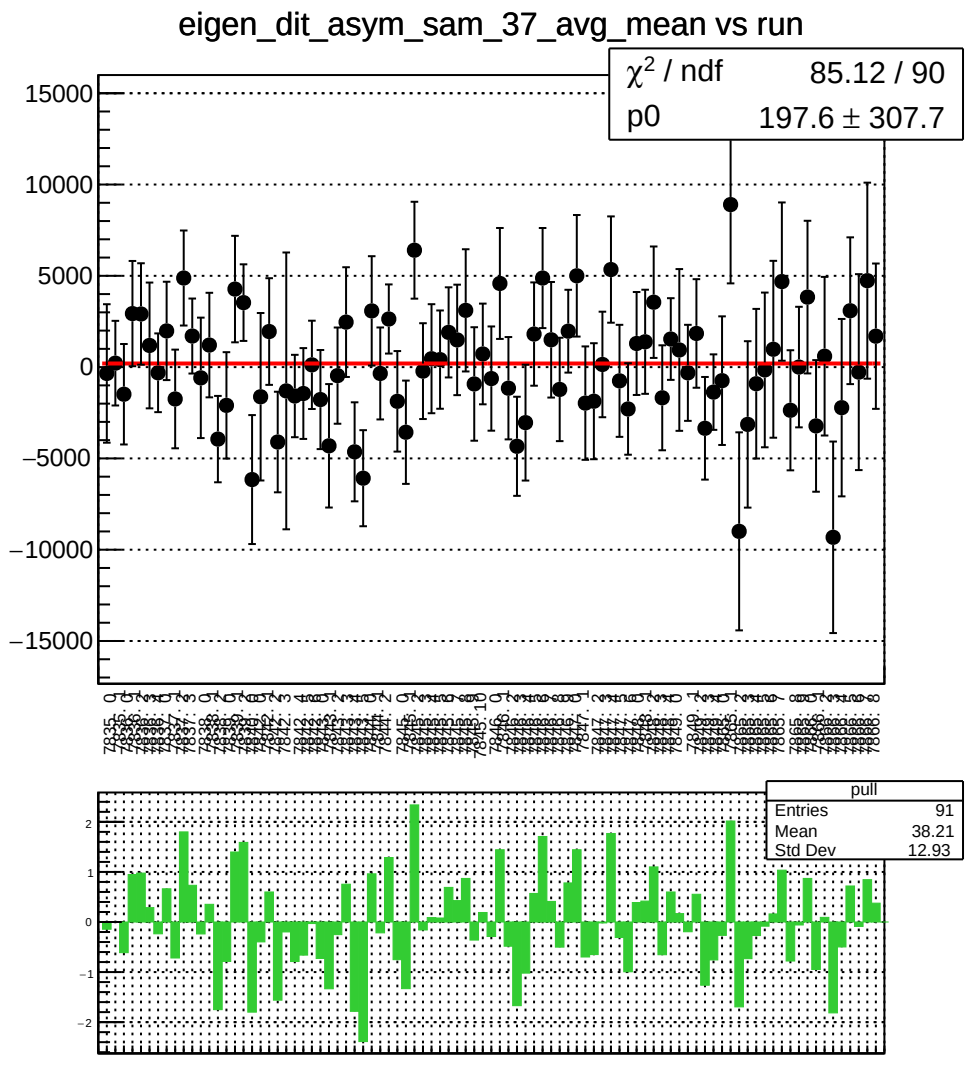
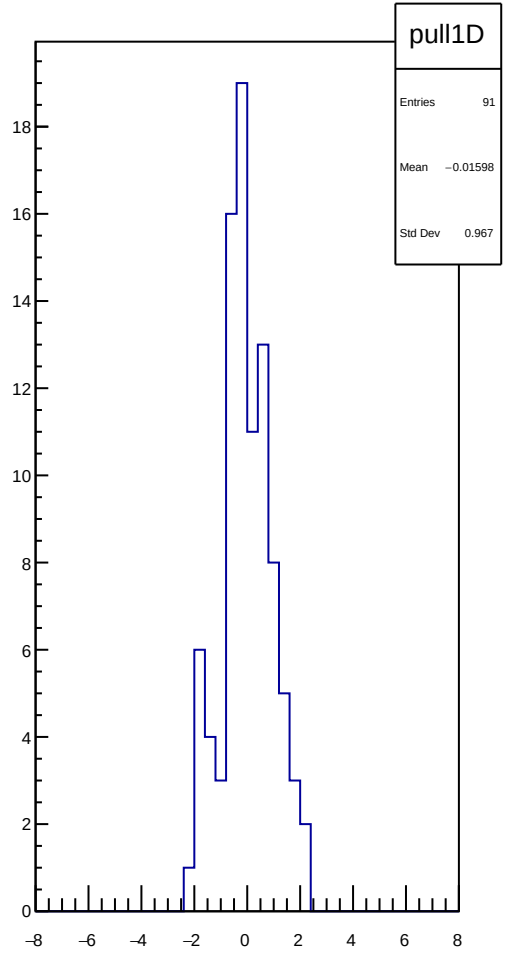
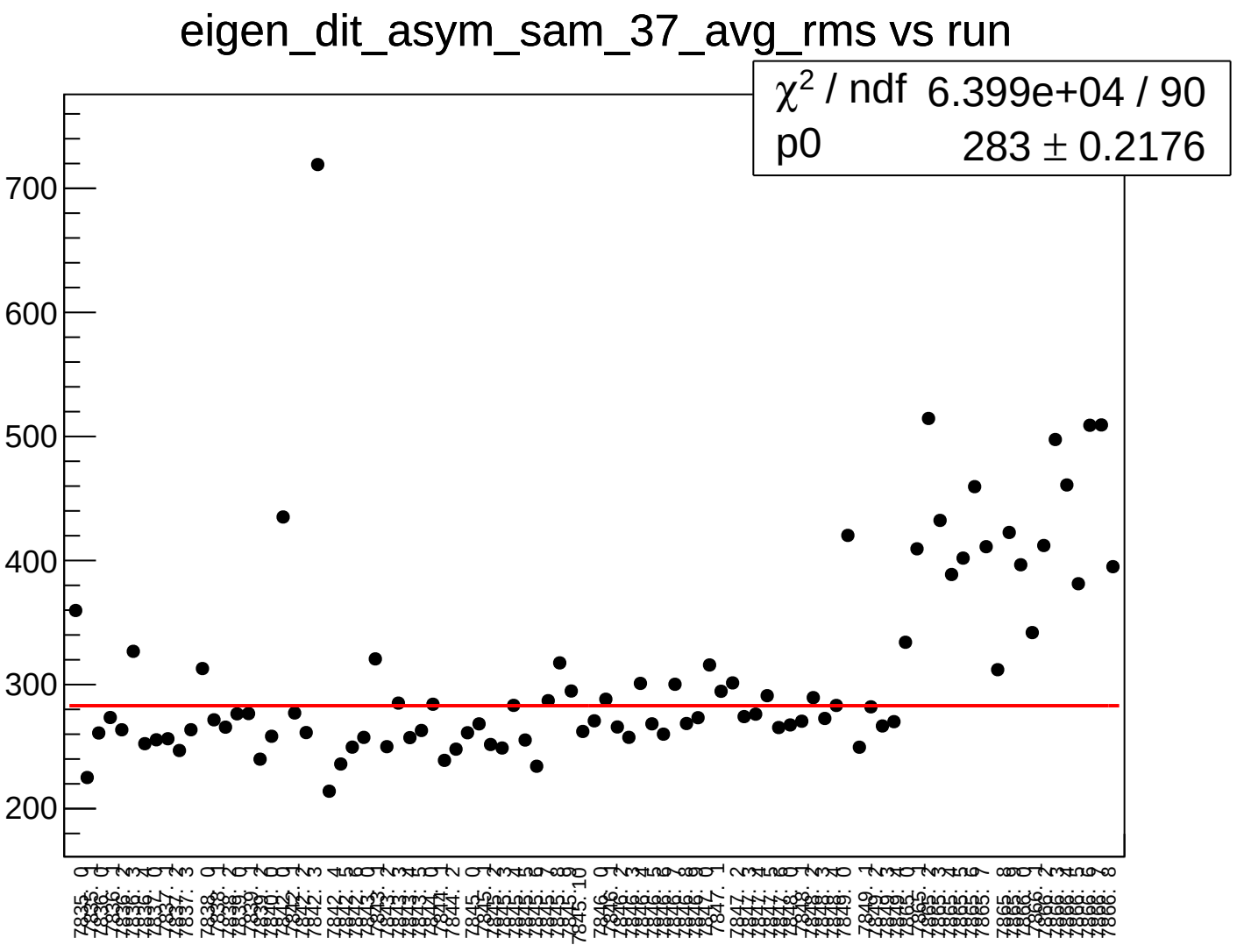
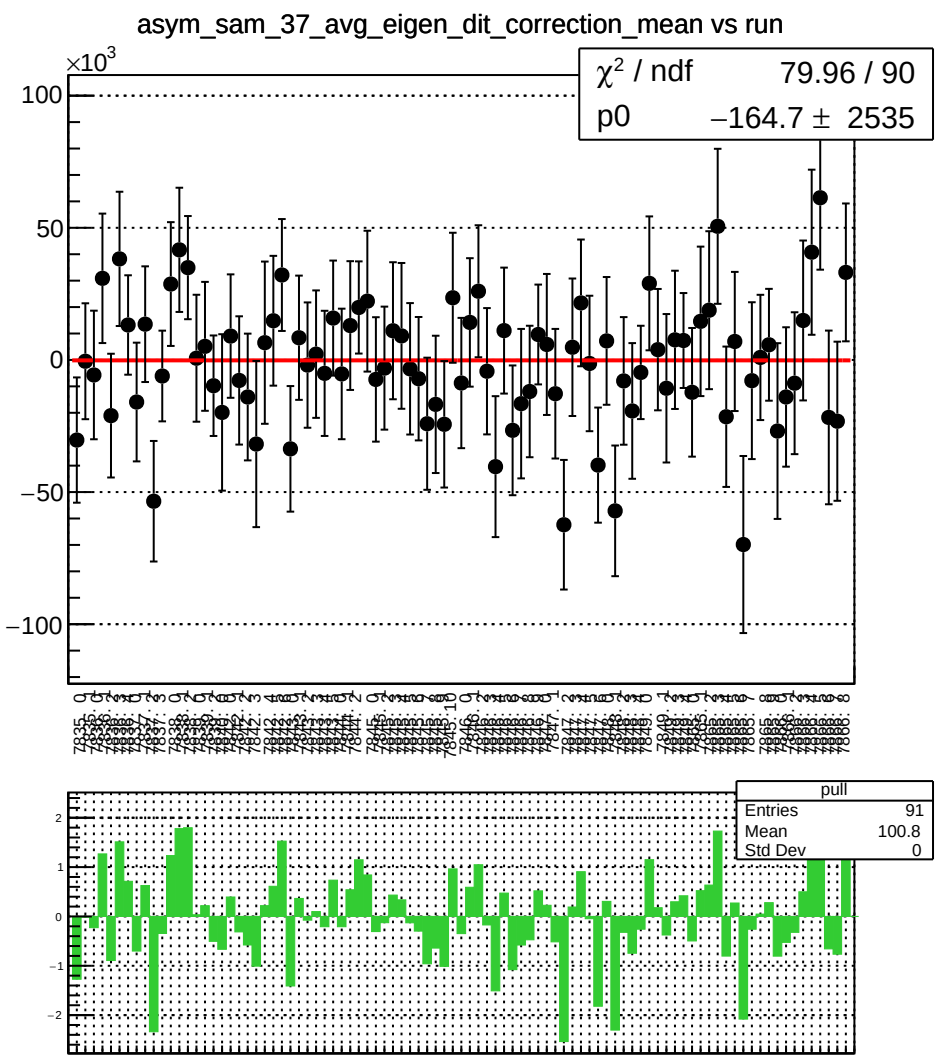
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

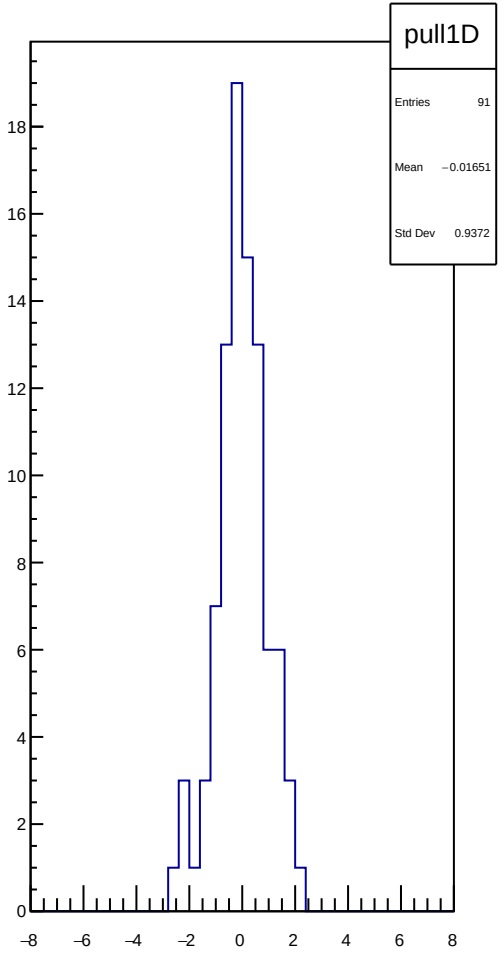

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.385e+04 / 90
p0 2365 ± 1.792
3200
3000
2800
2600
2400
2200
2000

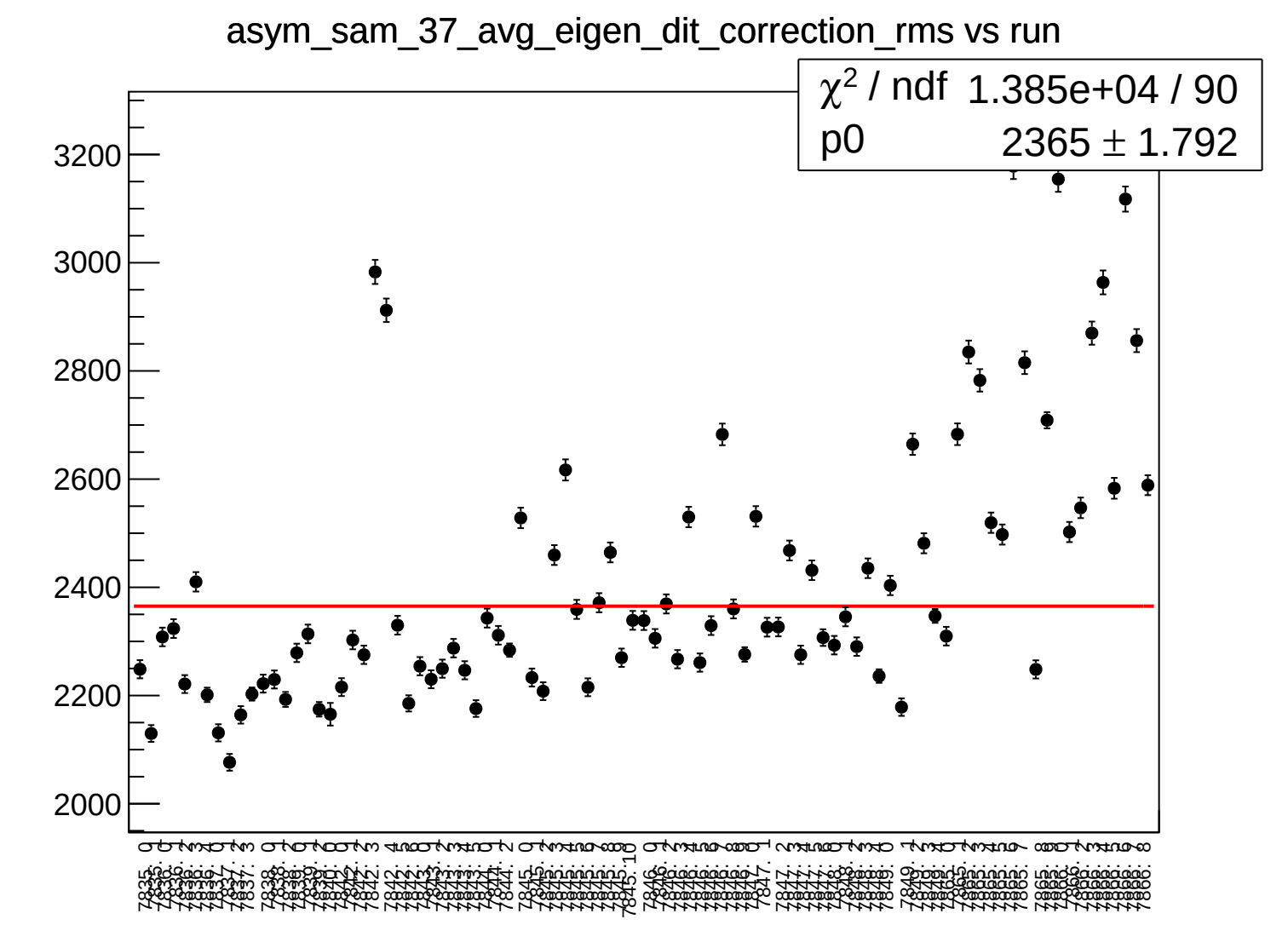

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 85.12 / 90
p0 197.6 ± 307.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 38.21
Std Dev 12.93
2
1
0
−1
−2

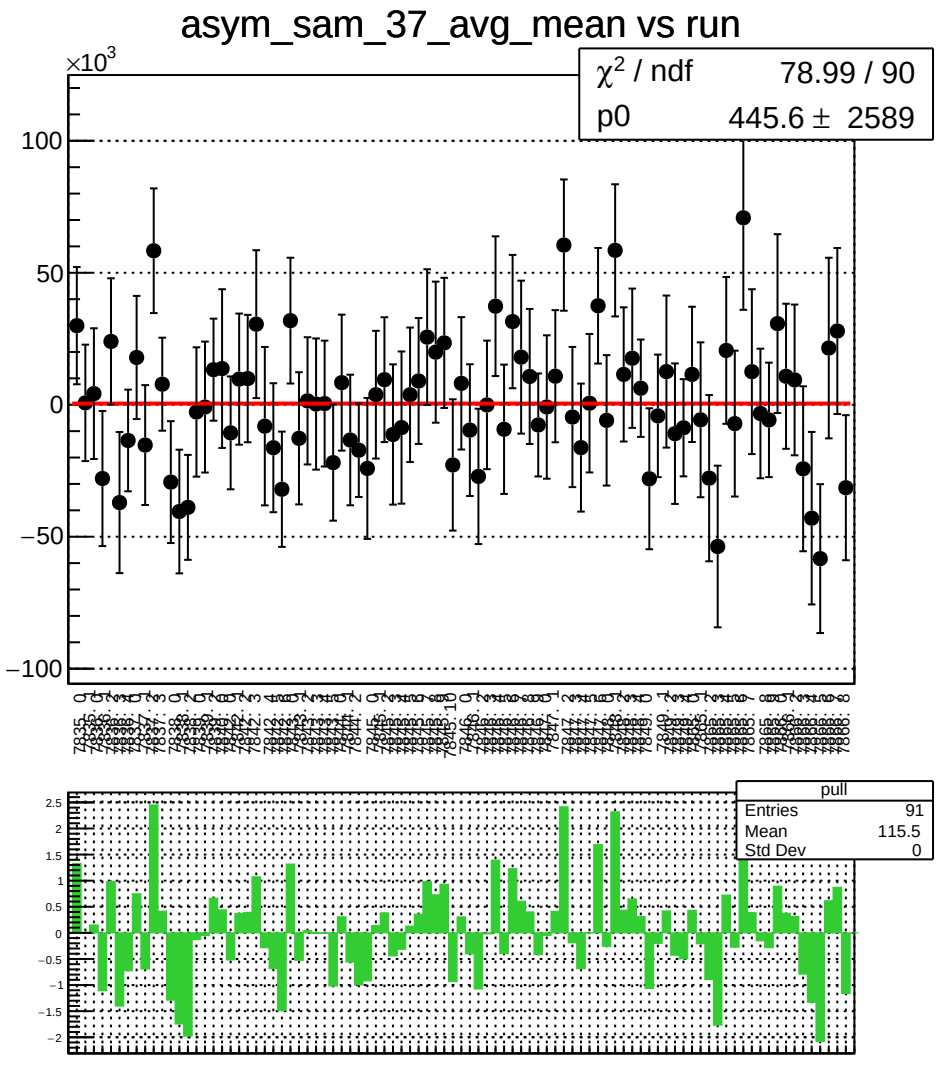

pull1D
Entries 91
Mean −0.01598
Std Dev 0.967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

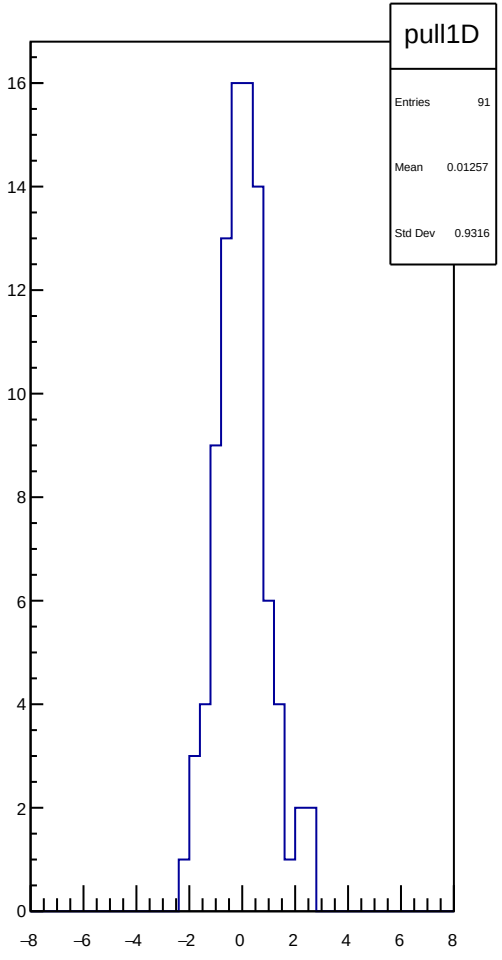

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 6.399e+04 / 90
p0 283 ± 0.2176
700
600
500
400
300
200

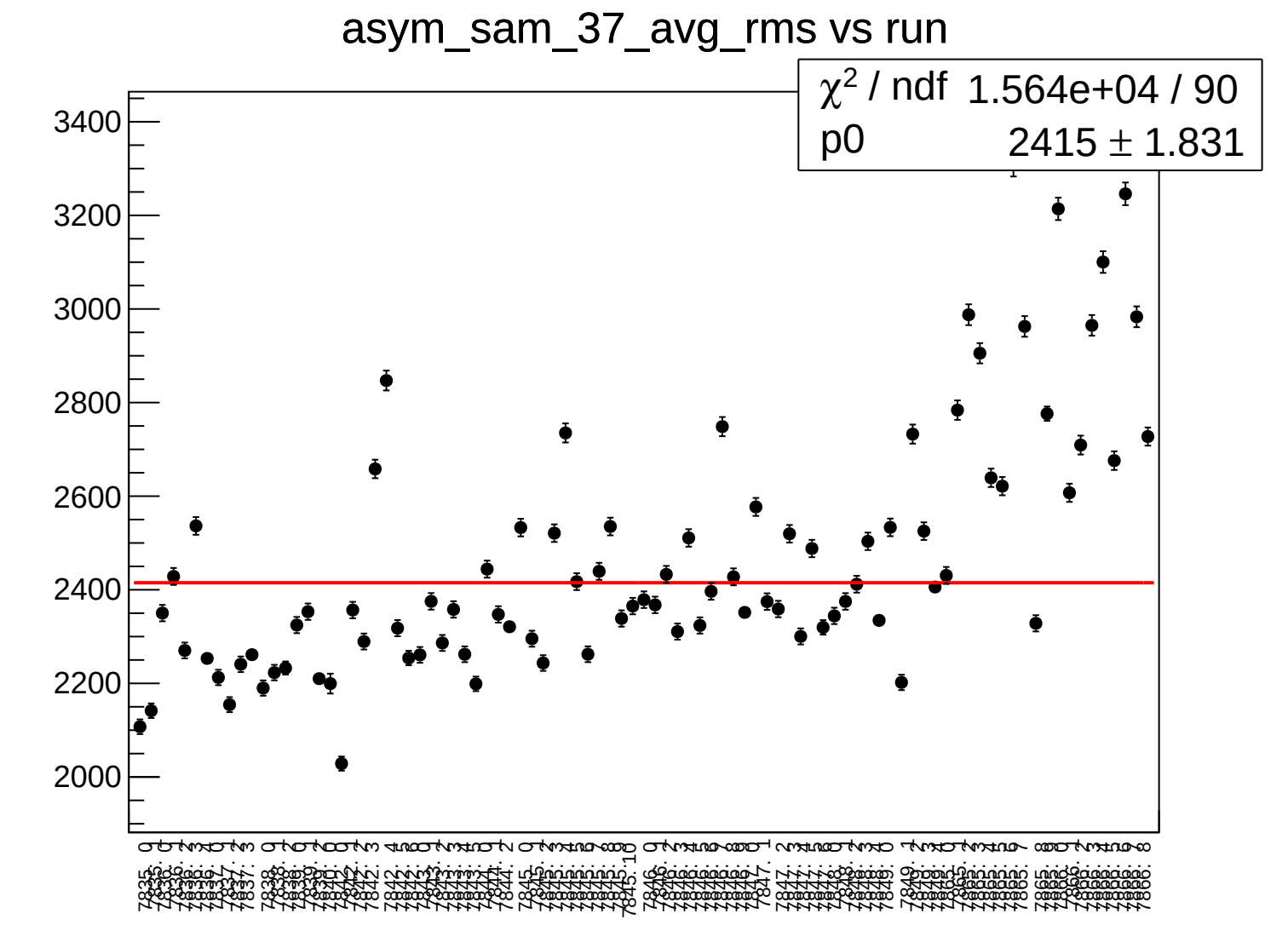

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.96 / 90
p0 −164.7 ± 2535
100
50
0
−50
−100
pull
Entries 91
Mean 100.8
Std Dev 0
2
1
0
−1
−2

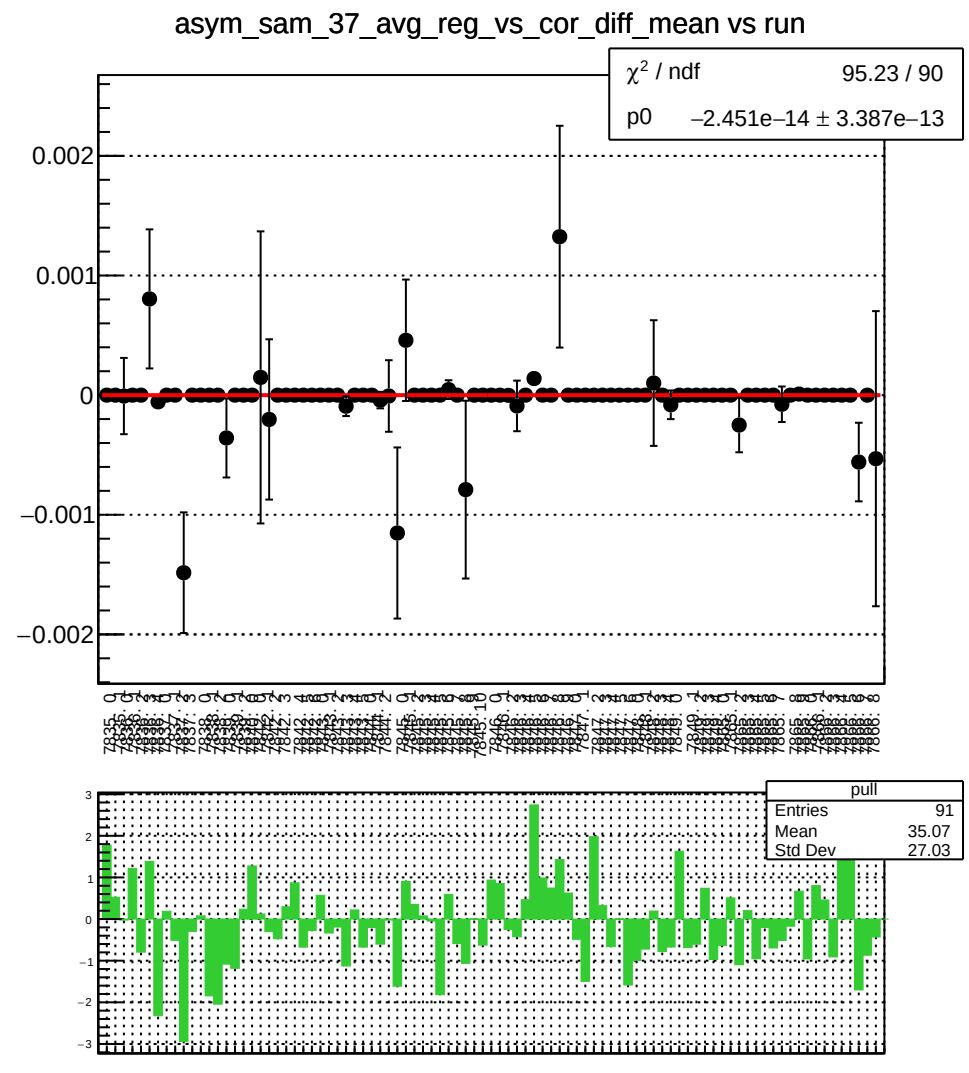

pull1D
Entries 91
Mean −0.01651
Std Dev 0.9372
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

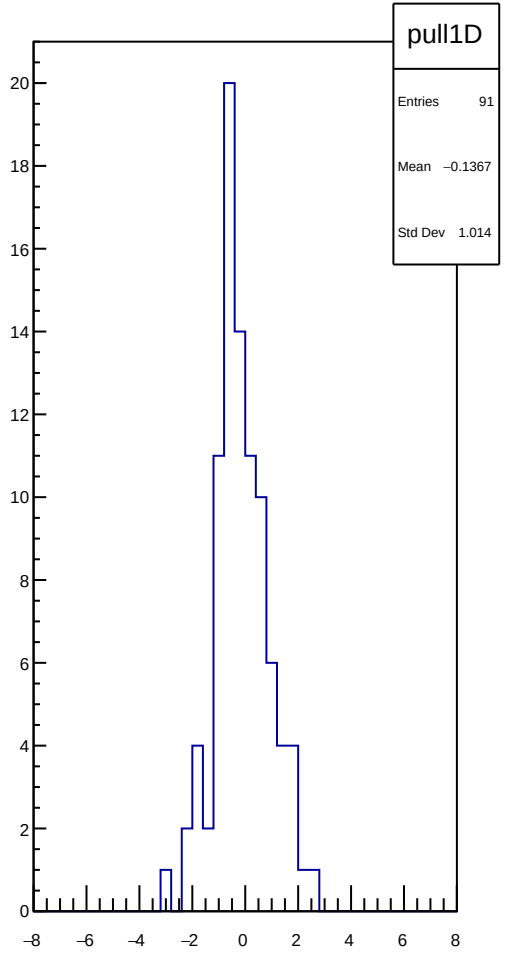

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.385e+04 / 90
p0 2365 ± 1.792
3200
3000
2800
2600
2400
2200
2000

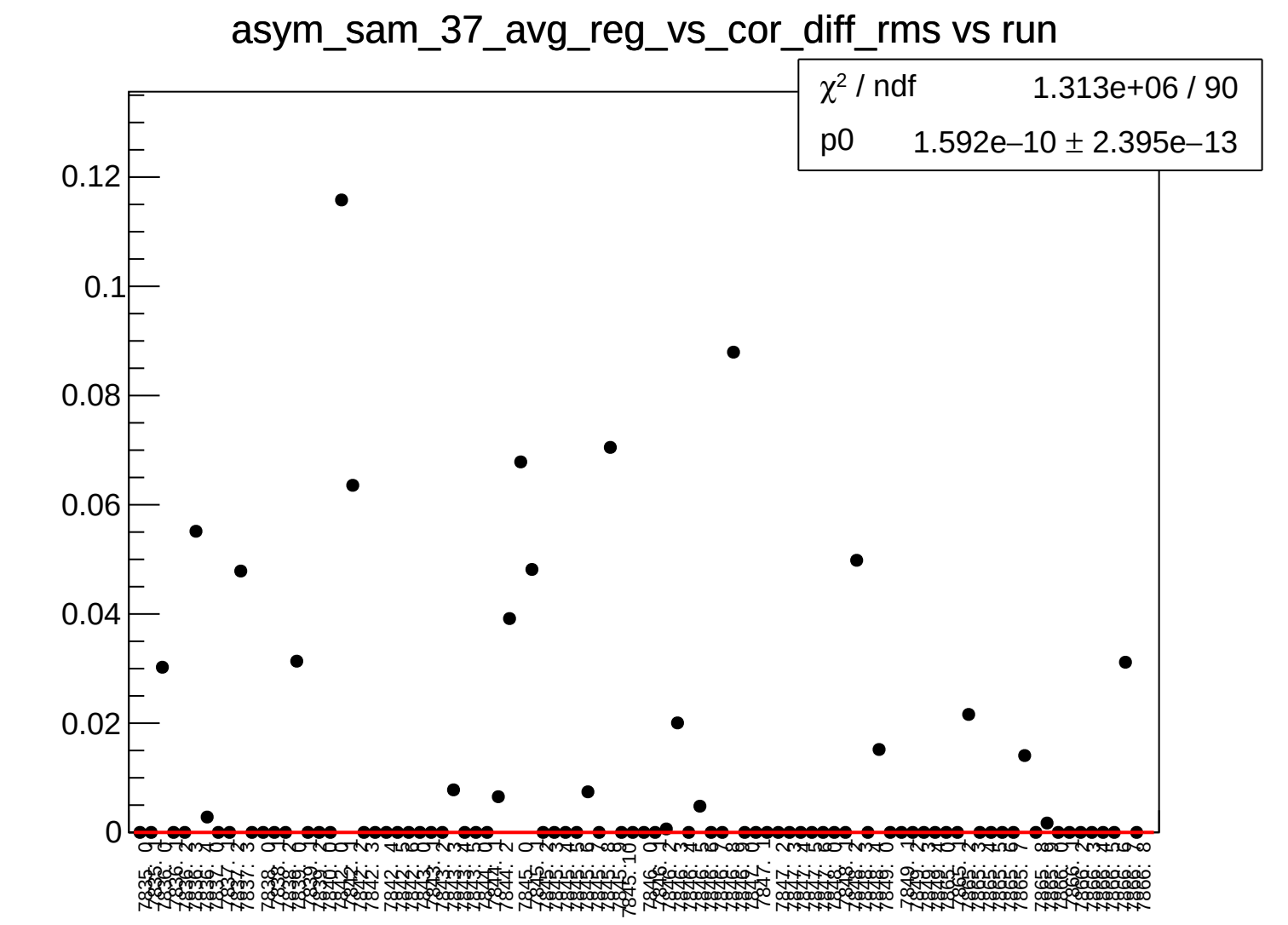

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 78.99 / 90
p0 445.6 ± 2589
100
50
0
−50
−100
pull
Entries 91
Mean 115.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

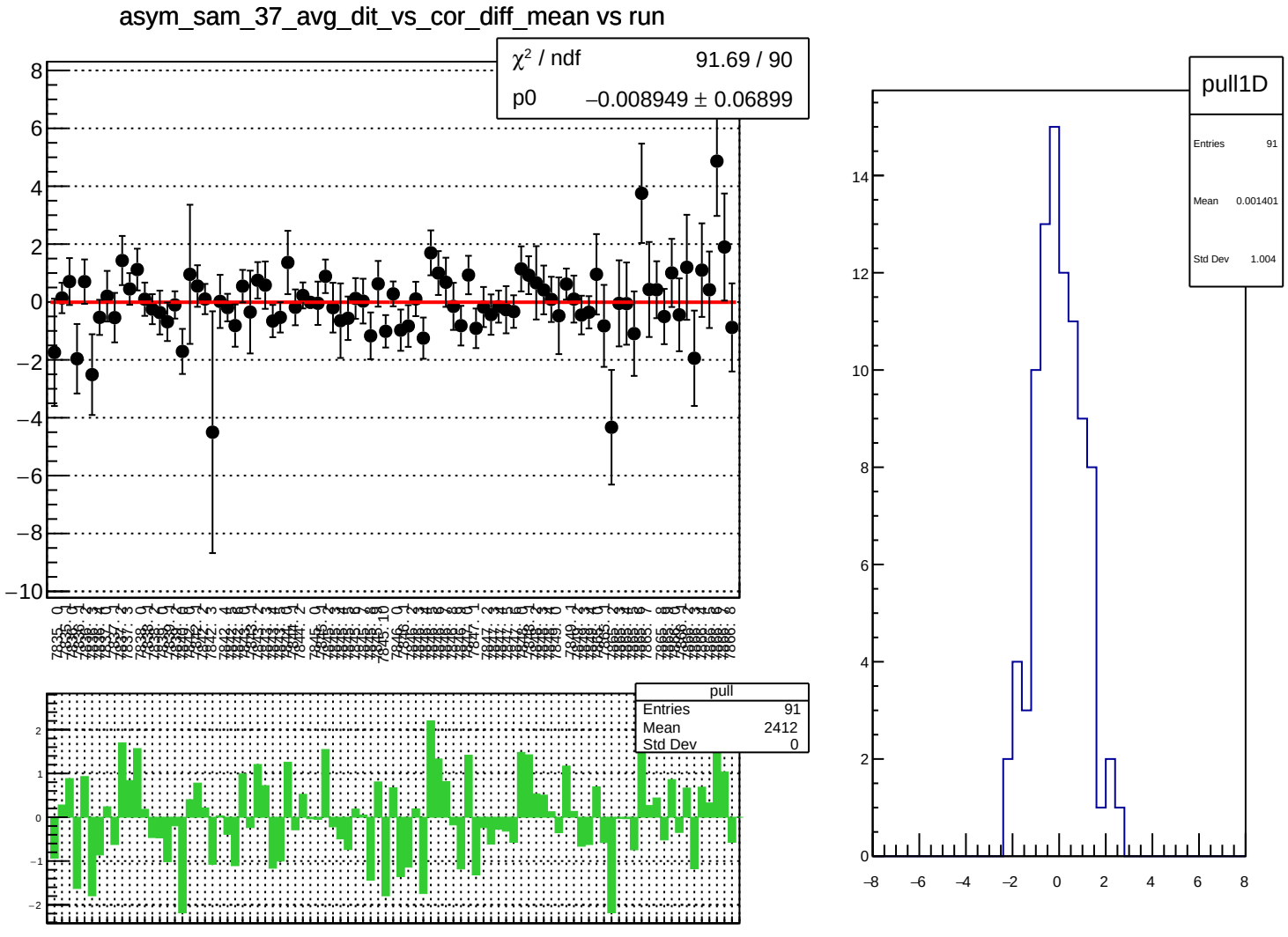

pull1D
Entries 91
Mean 0.01257
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

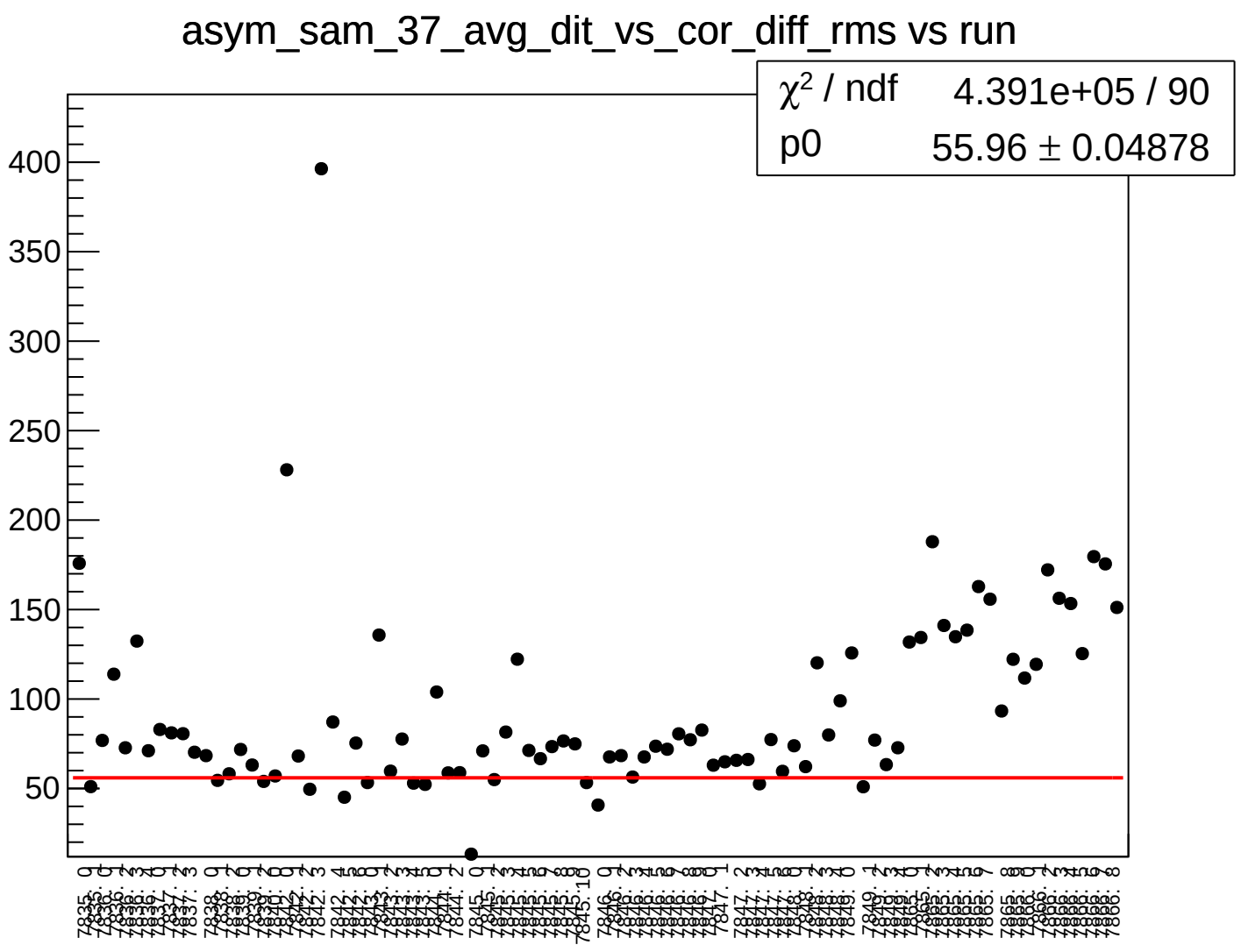

asym_sam_37_avg_rms vs run
χ² / ndf 1.564e+04 / 90
p0 2415 ± 1.831
3400
3200
3000
2800
2600
2400
2200
2000

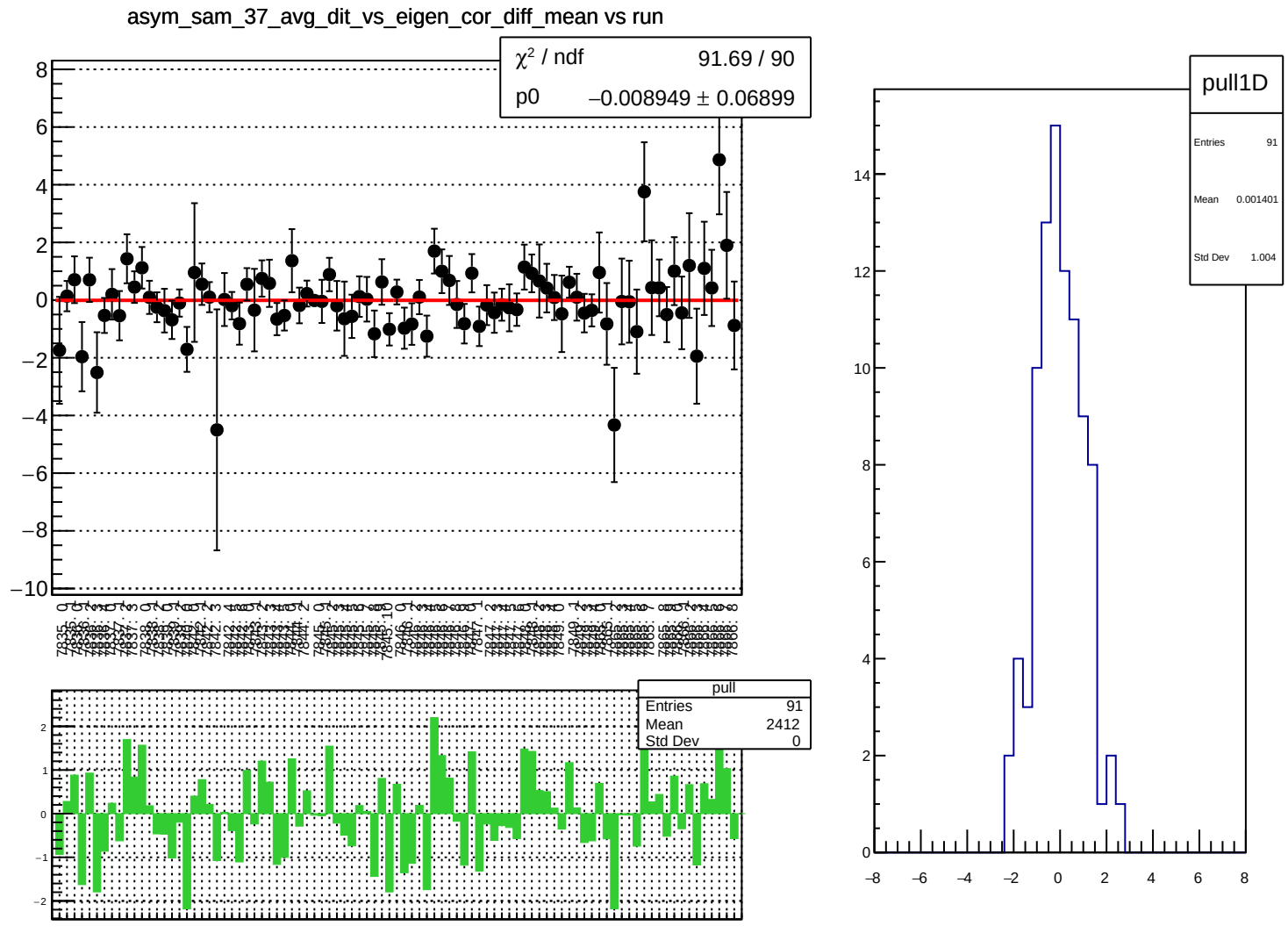

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.23 / 90
p0 −2.451e−14 ± 3.387e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 35.07
Std Dev 27.03
3
2
1
0
−1
−2
−3

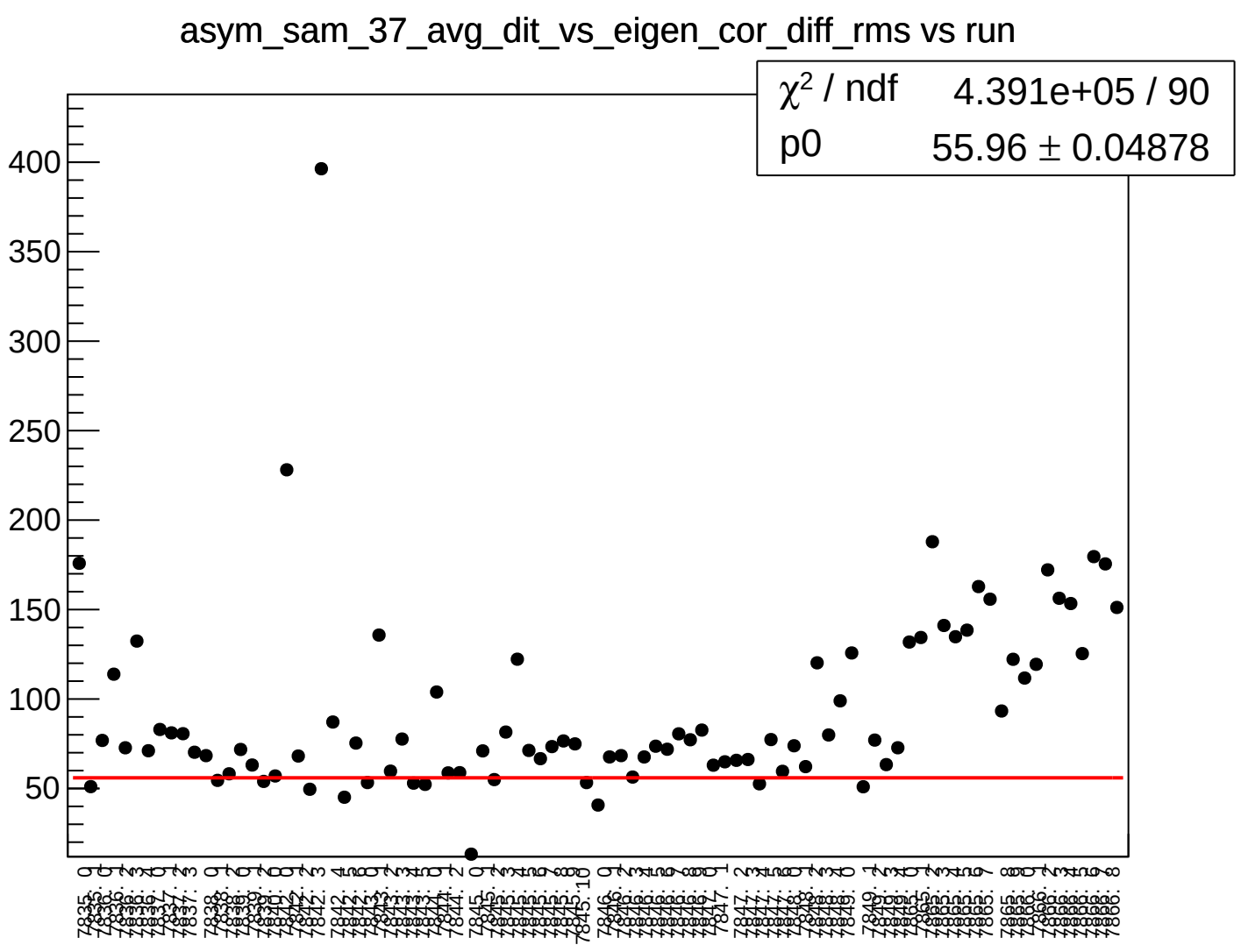

pull1D
Entries 91
Mean −0.1367
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

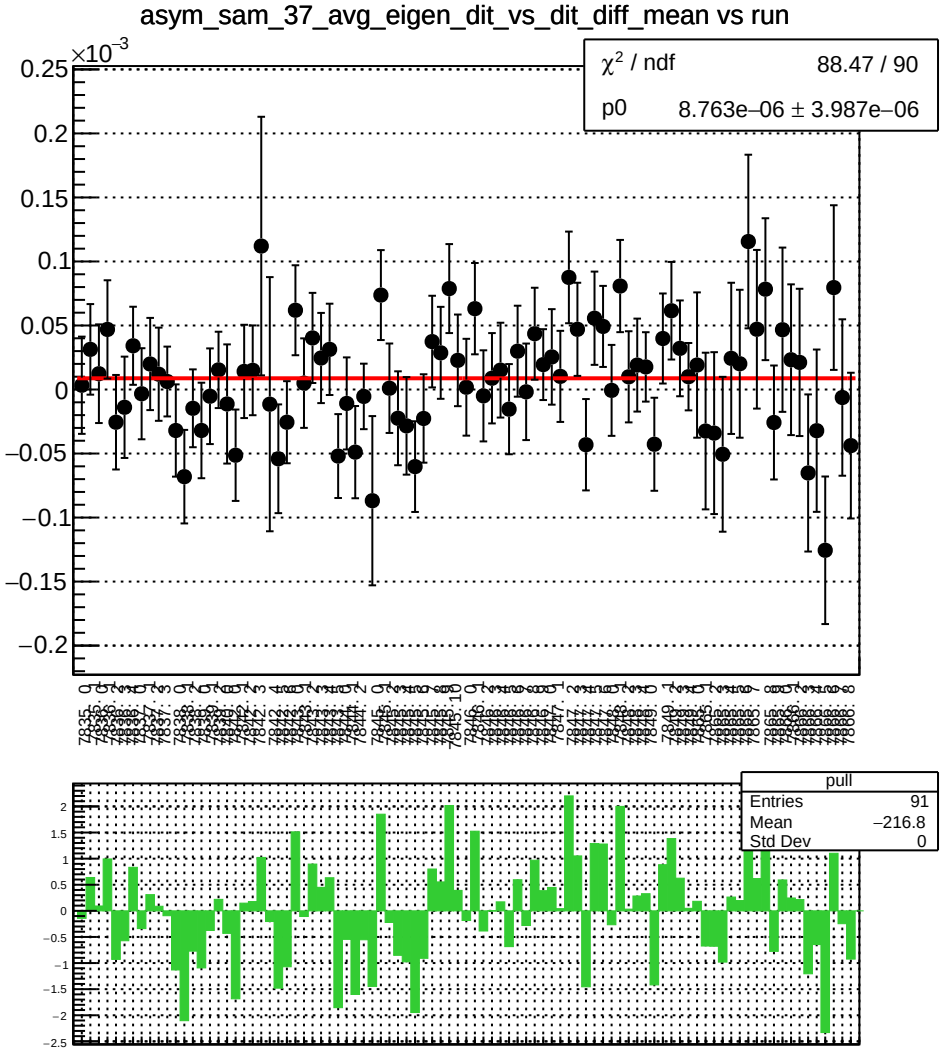

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.313e+06 / 90
p0 1.592e−10 ± 2.395e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

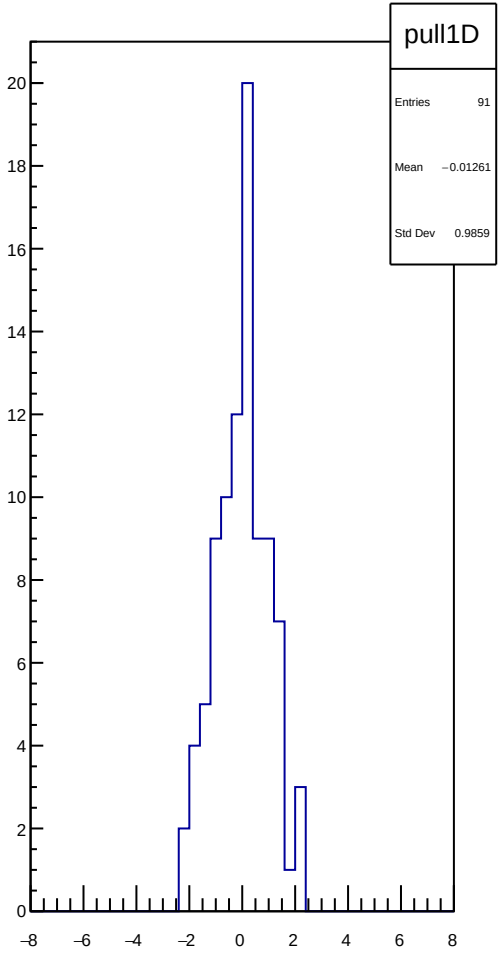

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.69 / 90
p0 −0.008949 ± 0.06899
pull
Entries 91
Mean 2412
Std Dev 0
pull1D
Entries 91
Mean 0.001401
Std Dev 1.004

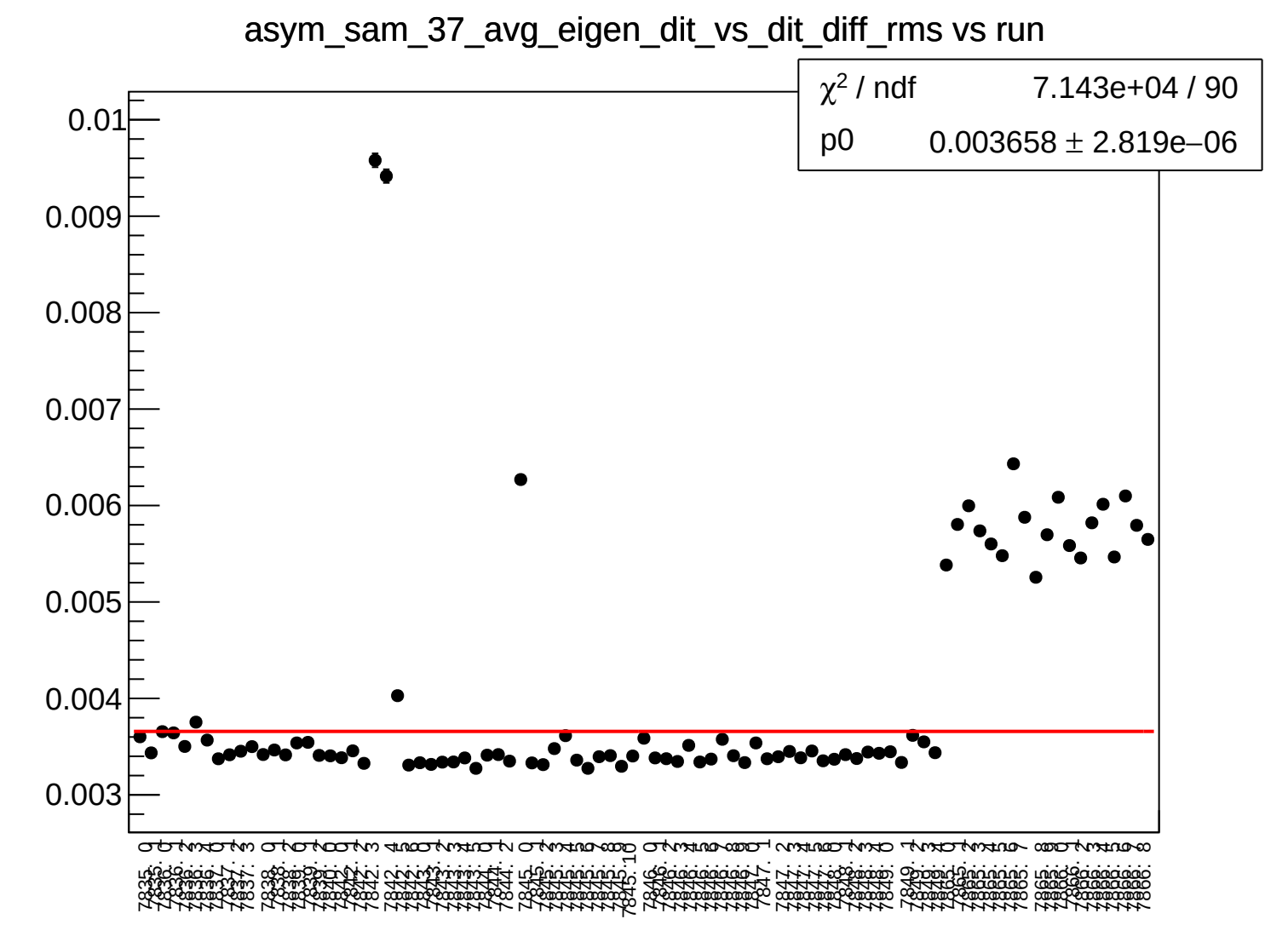

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.391e+05 / 90
p0 55.96 ± 0.04878
400
350
300
250
200
150
100
50

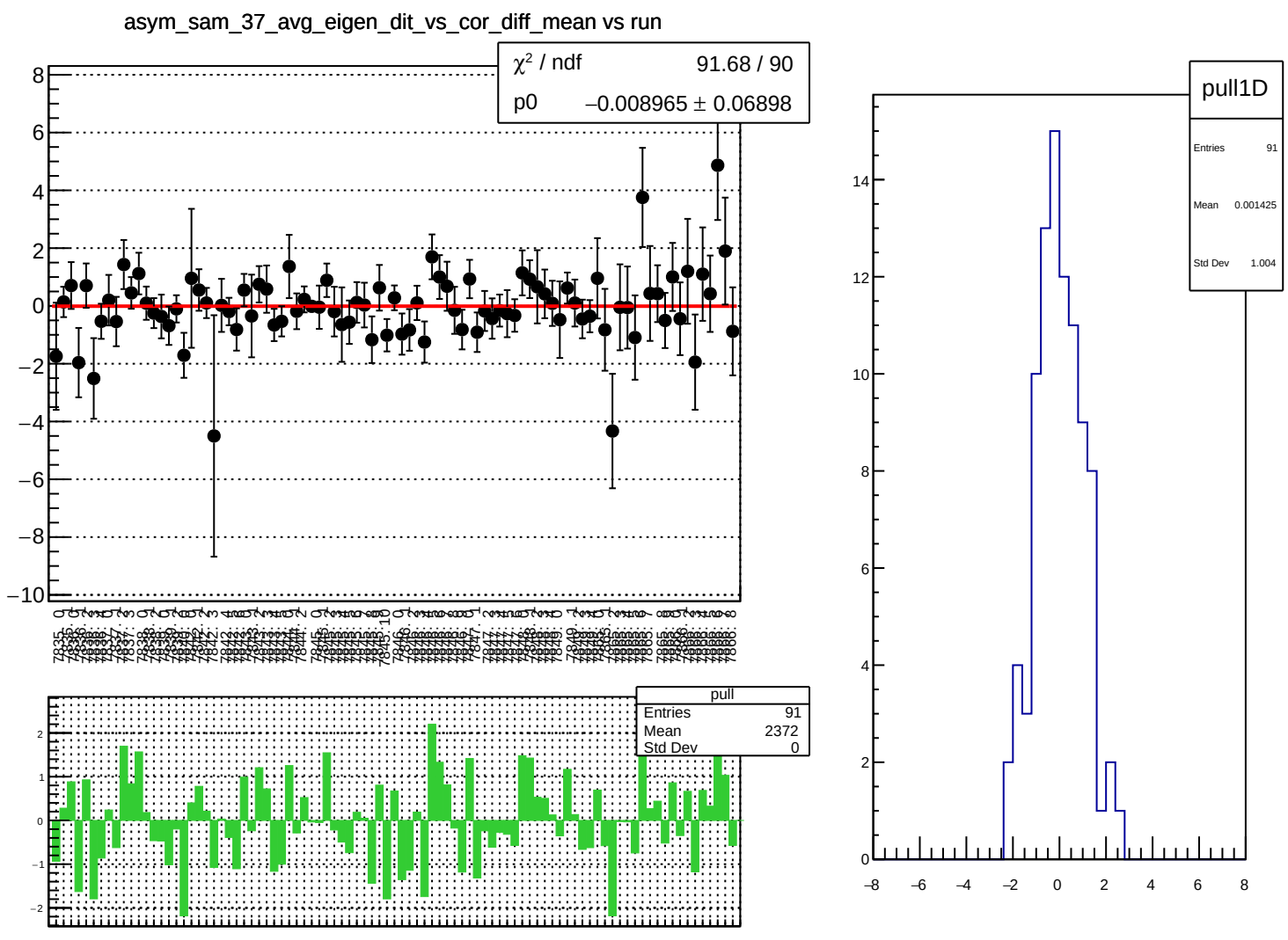

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.69 / 90
p0 −0.008949 ± 0.06899
pull
Entries 91
Mean 2412
Std Dev 0
pull1D
Entries 91
Mean 0.001401
Std Dev 1.004

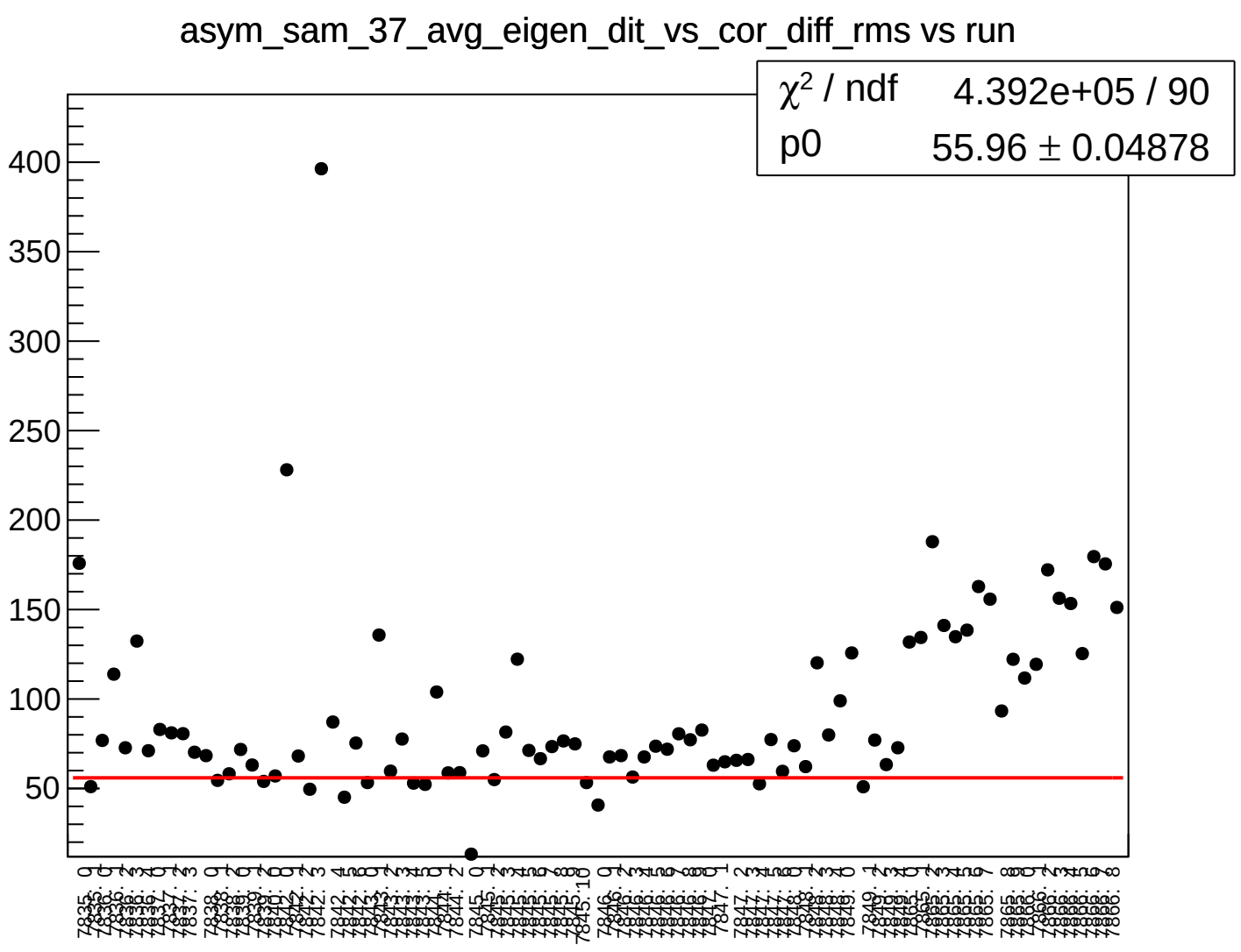

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.391e+05 / 90
p0 55.96 ± 0.04878
400
350
300
250
200
150
100
50

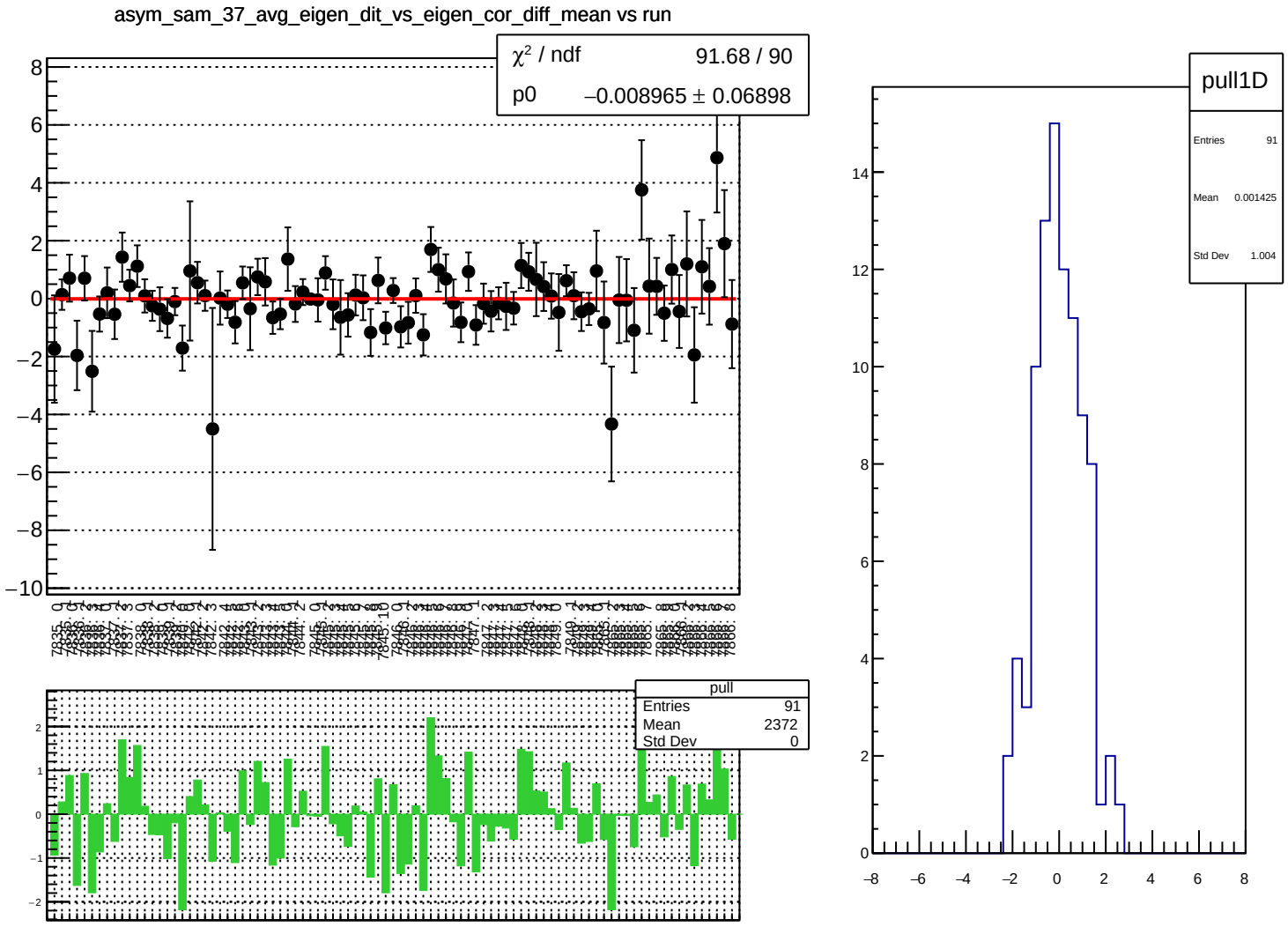

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.47 / 90
p0 8.763e−06 ± 3.987e−06
pull
Entries 91
Mean −216.8
Std Dev 0

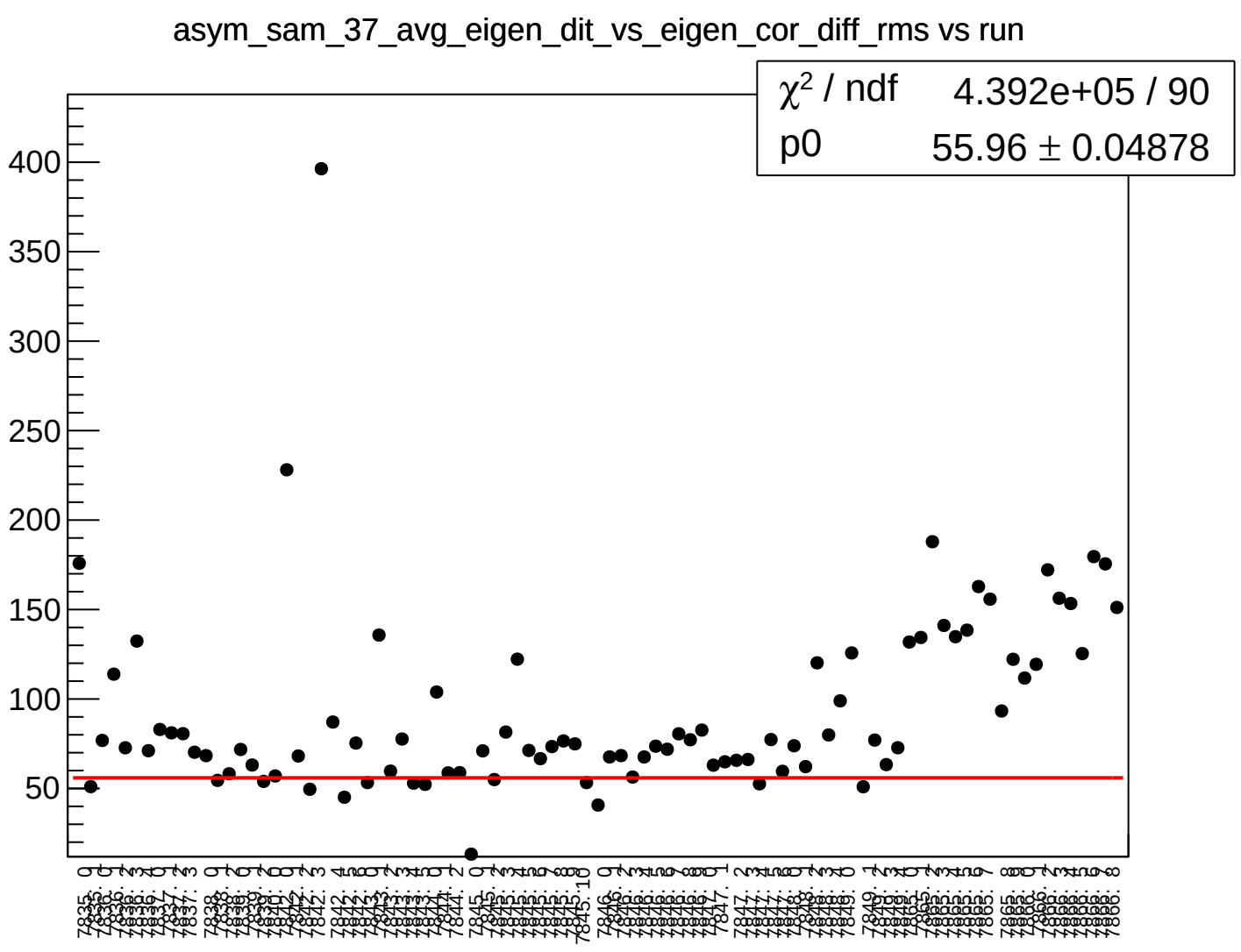

pull1D
Entries 91
Mean −0.01261
Std Dev 0.9859

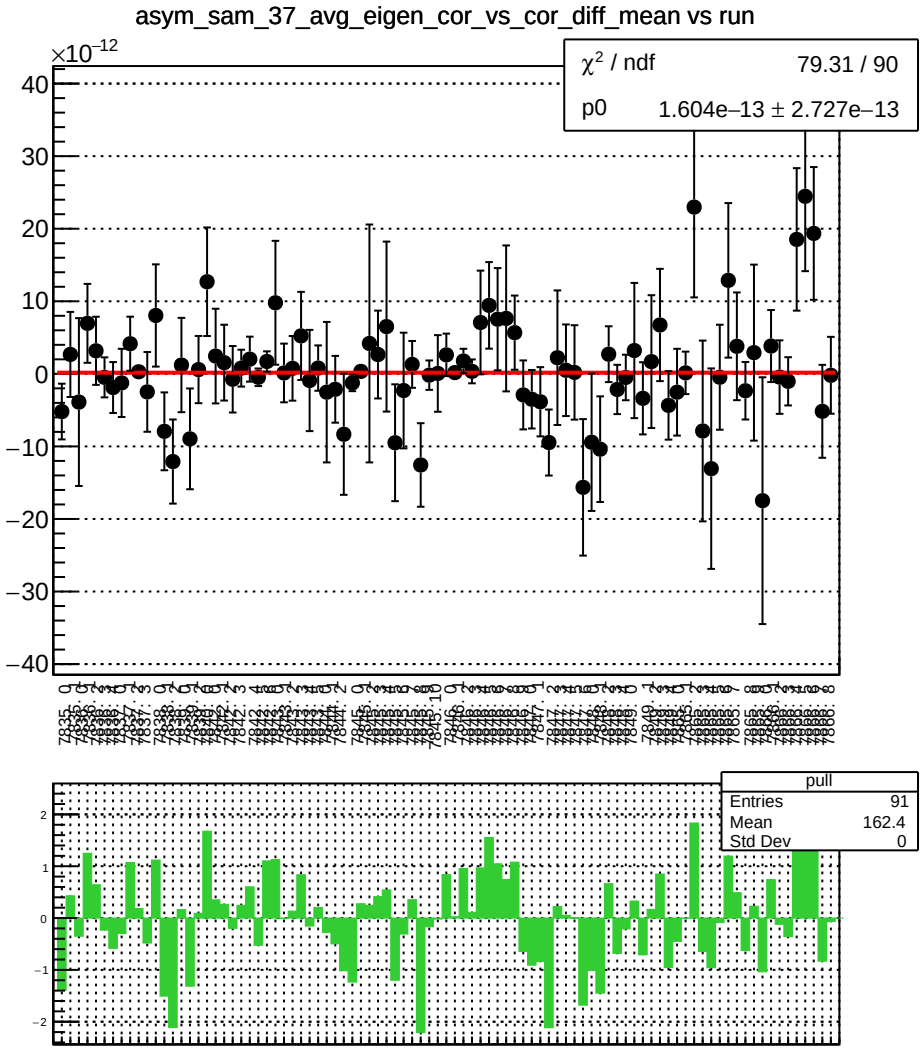

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.143e+04 / 90
p0 0.003658 ± 2.819e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

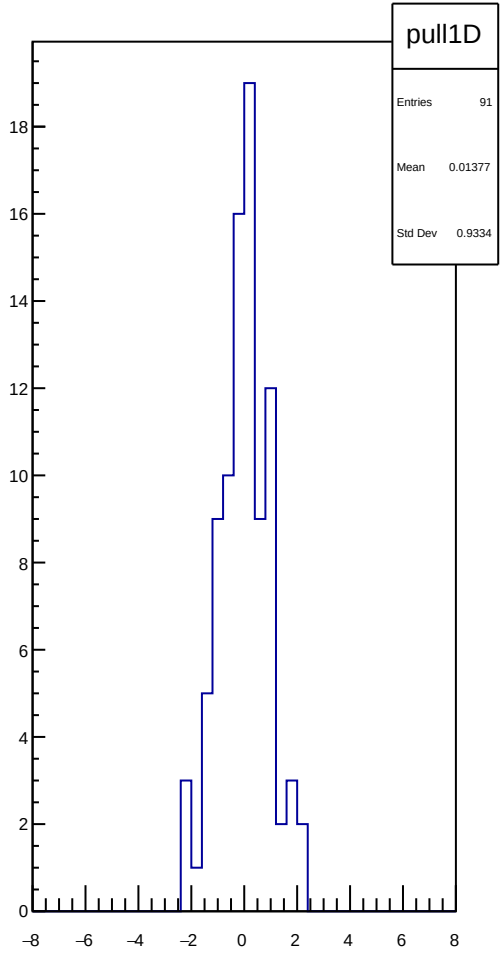

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.68 / 90
p0 −0.008965 ± 0.06898
pull
Entries 91
Mean 2372
Std Dev 0
pull1D
Entries 91
Mean 0.001425
Std Dev 1.004

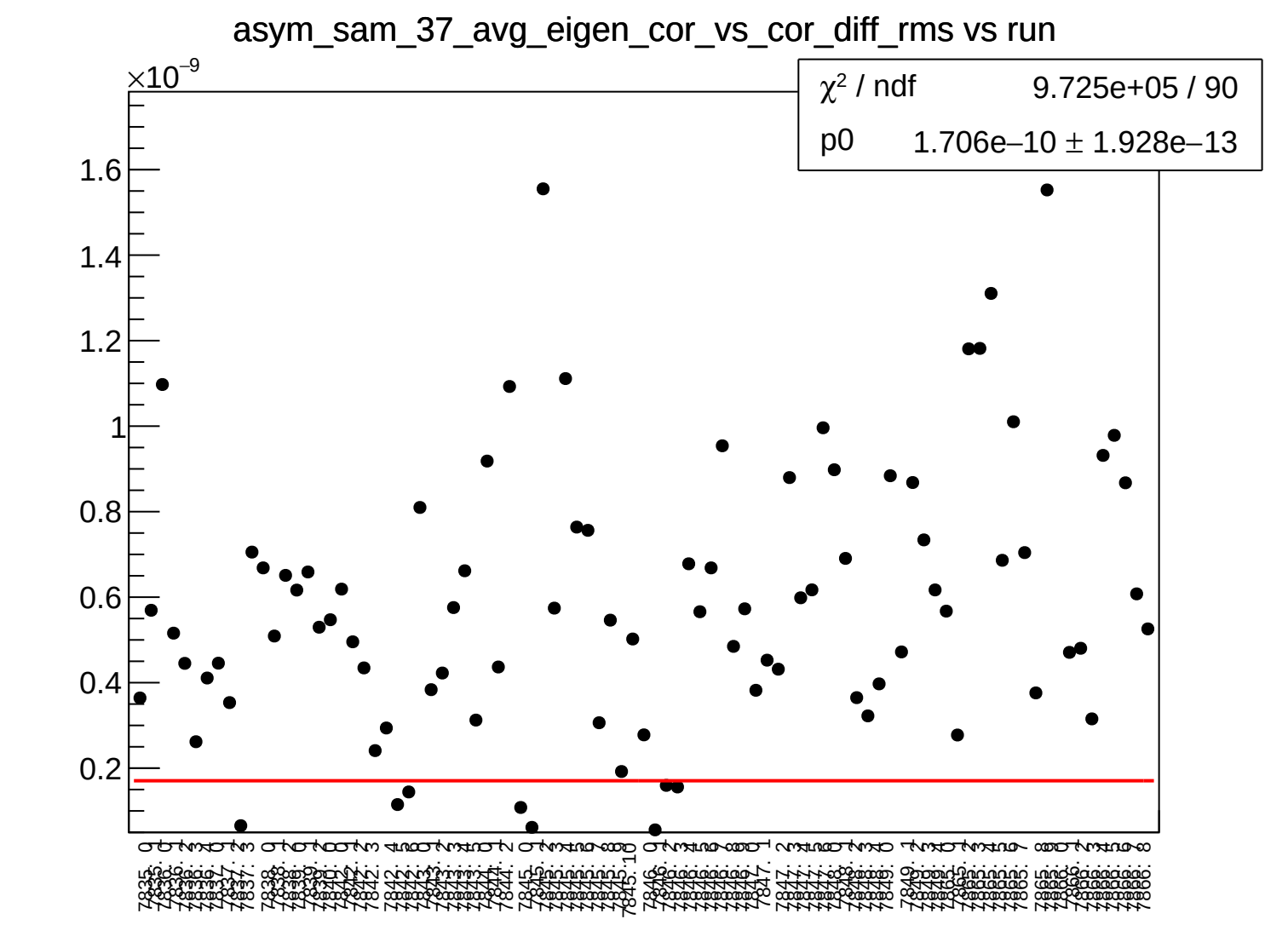

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.392e+05 / 90
p0 55.96 ± 0.04878
400
350
300
250
200
150
100
50

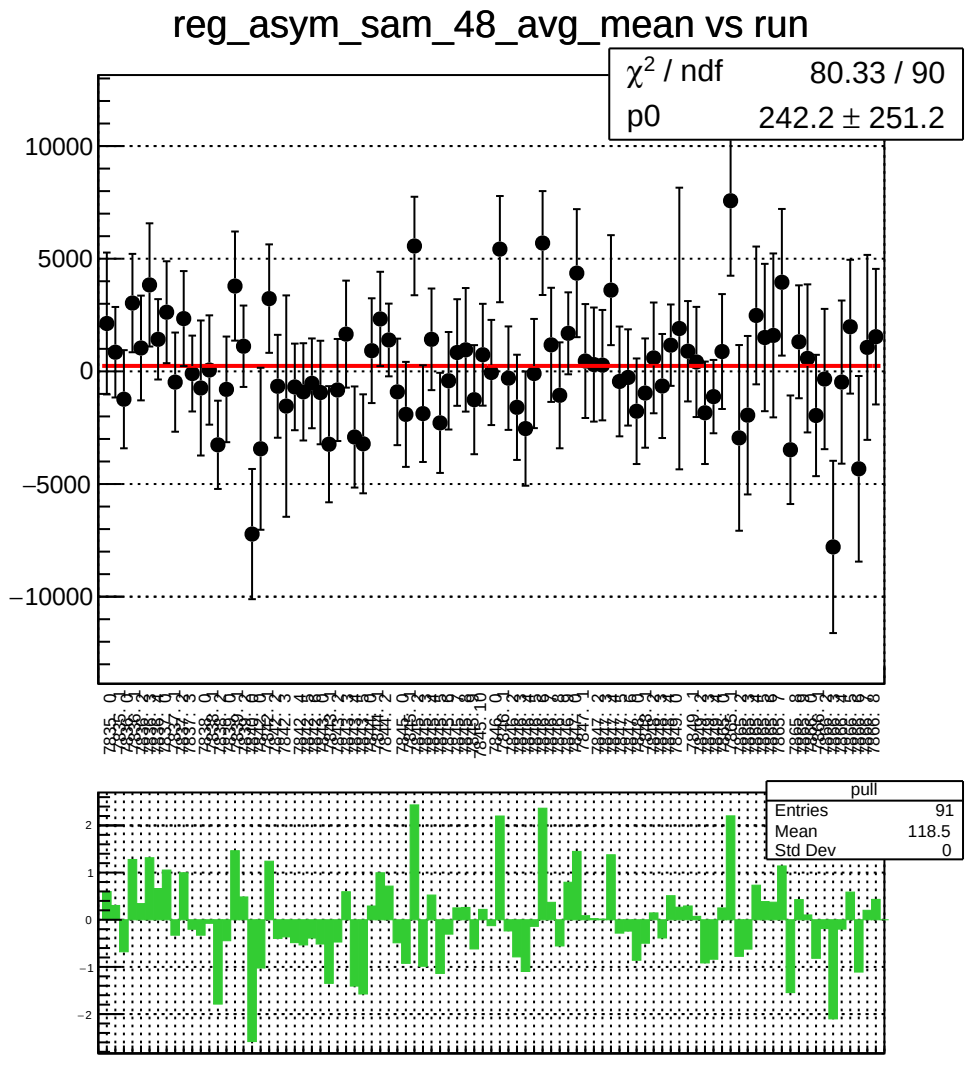

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.68 / 90
p0 −0.008965 ± 0.06898
pull
Entries 91
Mean 2372
Std Dev 0
pull1D
Entries 91
Mean 0.001425
Std Dev 1.004

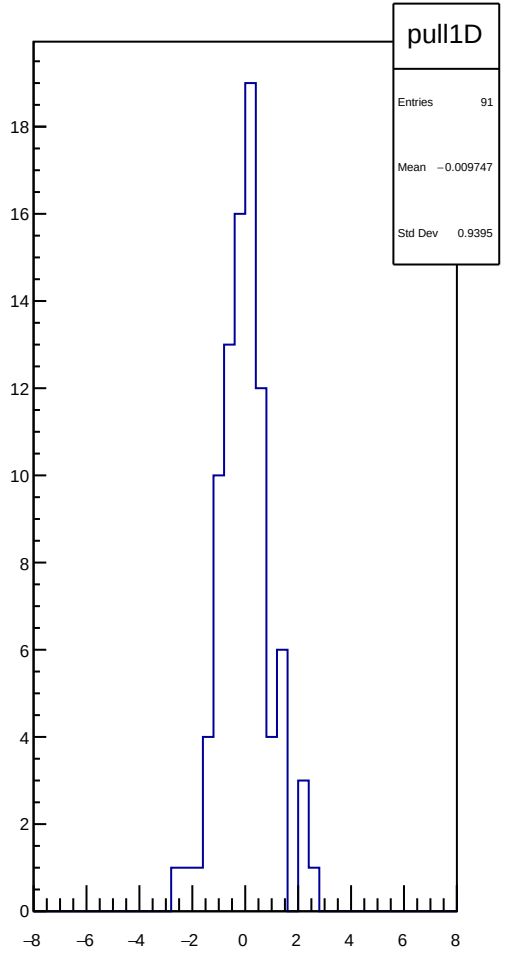

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.392e+05 / 90
p0 55.96 ± 0.04878
400
350
300
250
200
150
100
50

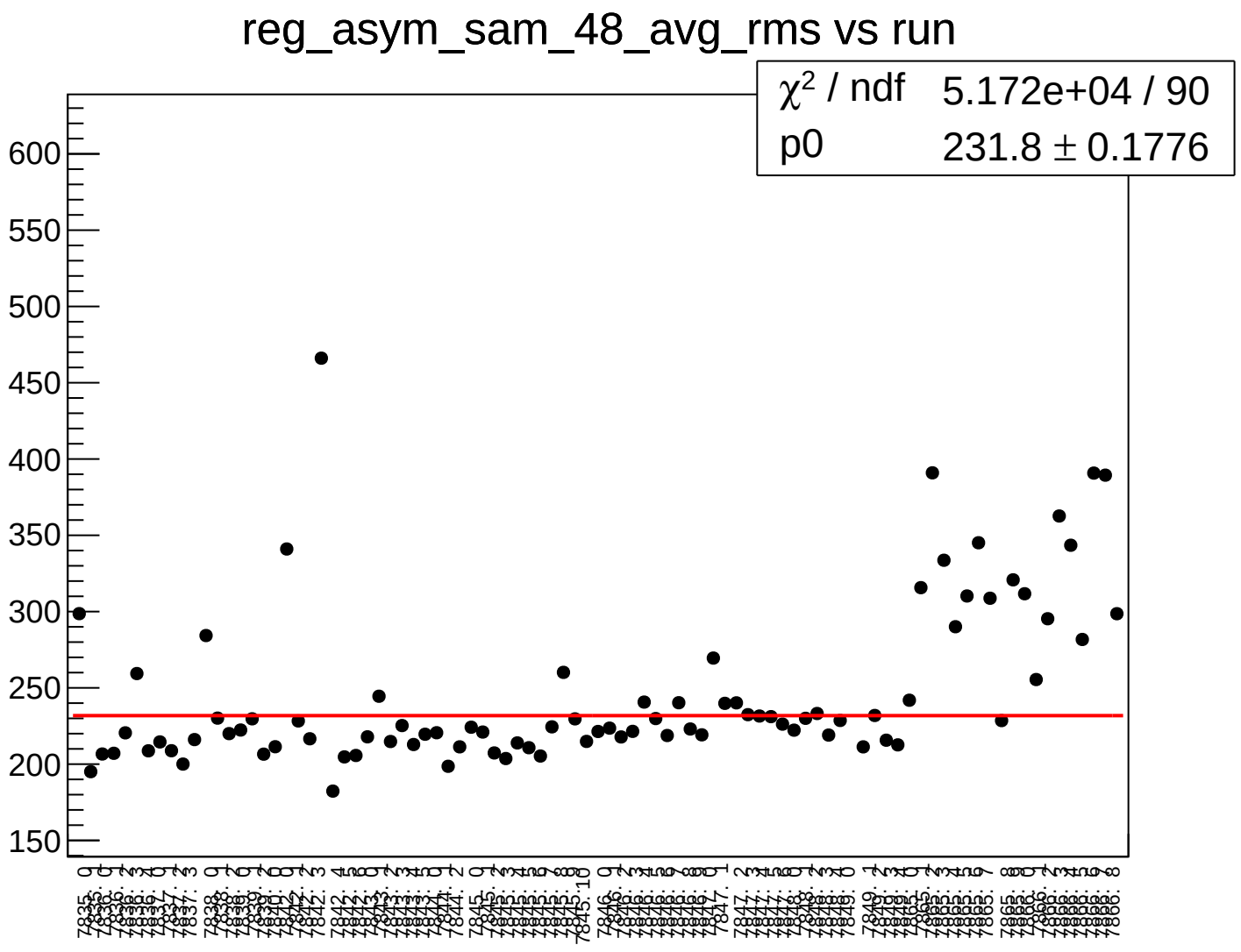

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.31 / 90
p0 1.604e−13 ± 2.727e−13
pull
Entries 91
Mean 162.4
Std Dev 0

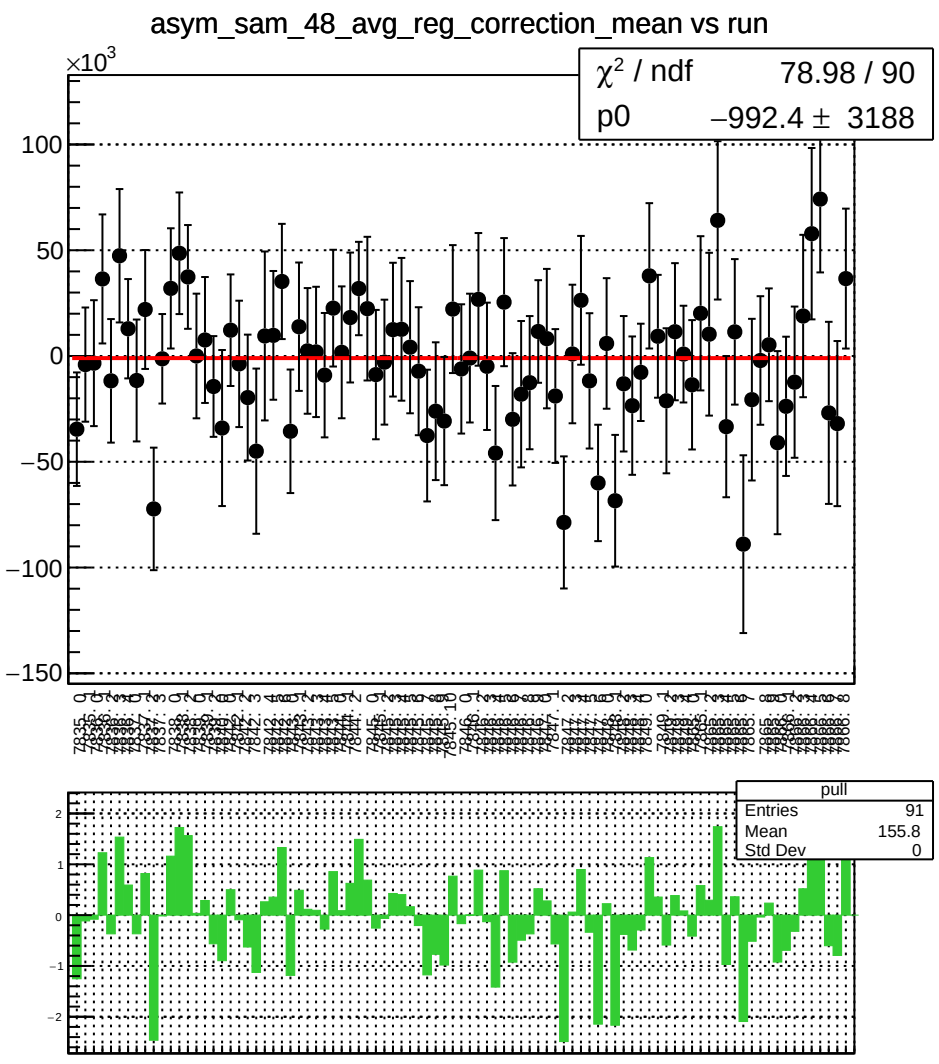

pull1D
Entries 91
Mean 0.01377
Std Dev 0.9334

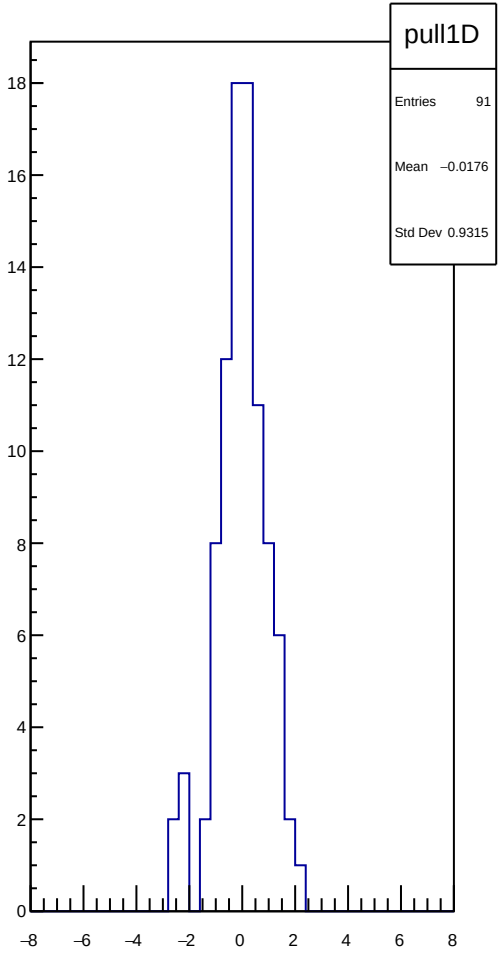

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.725e+05 / 90
p0 1.706e−10 ± 1.928e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

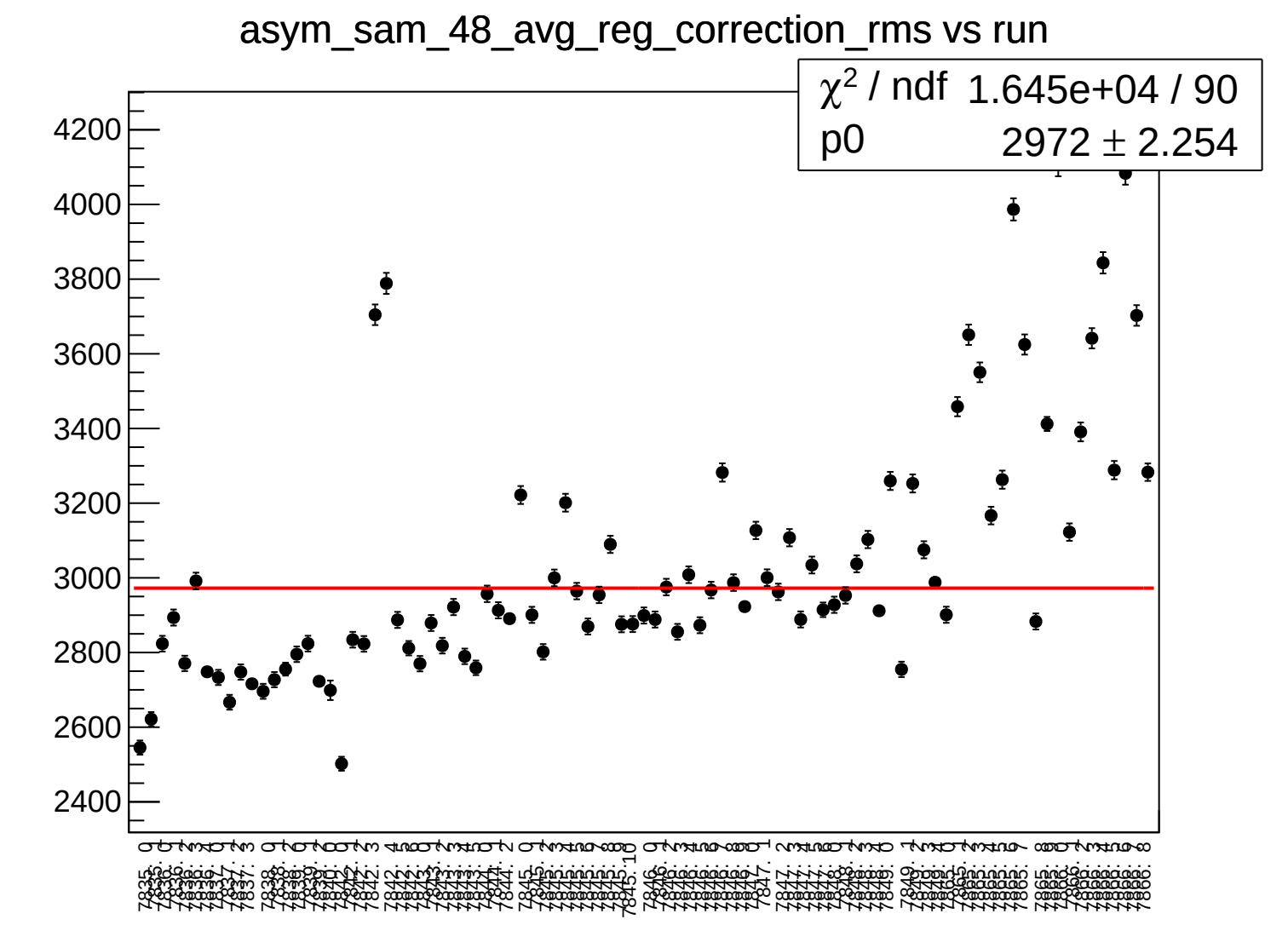

reg_asym_sam_48_avg_mean vs run
χ² / ndf 80.33 / 90
p0 242.2 ± 251.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 118.5
Std Dev 0
2
1
0
−1
−2

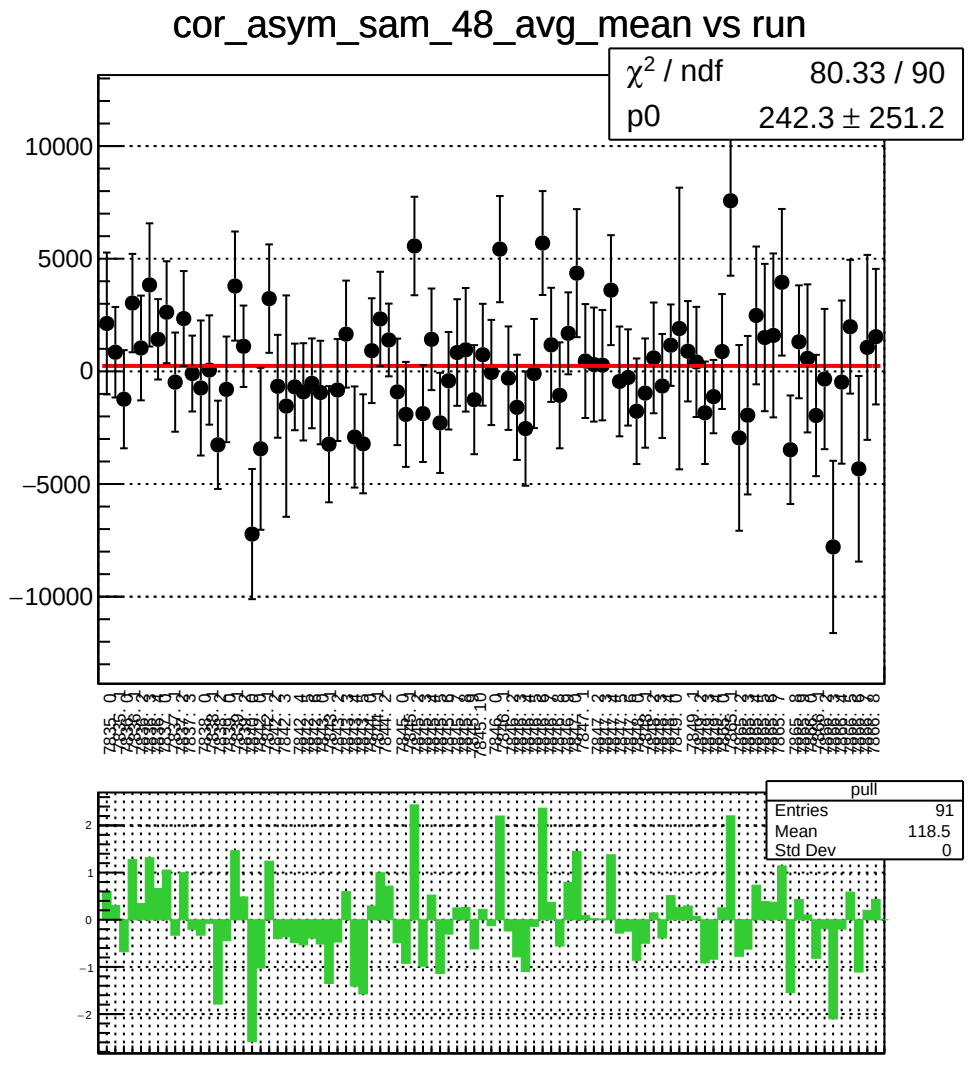

pull1D
Entries 91
Mean −0.009747
Std Dev 0.9395
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

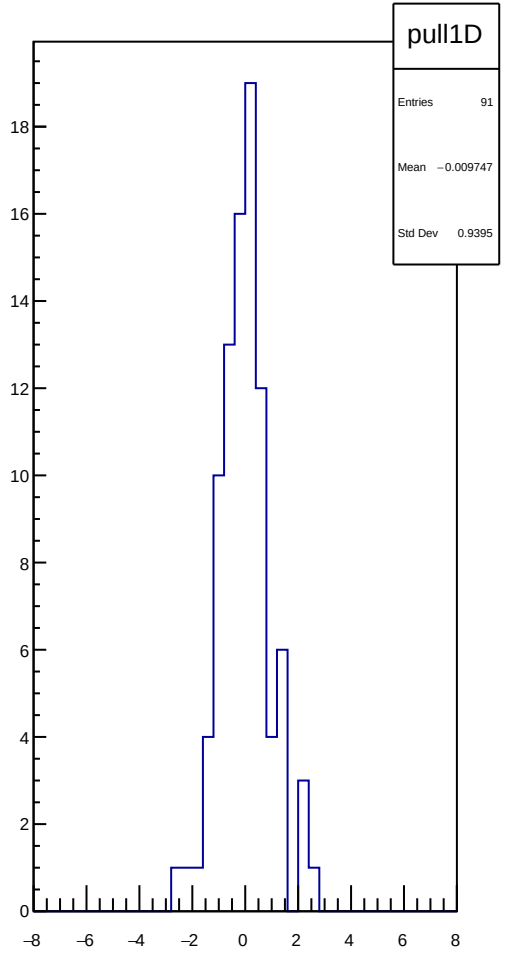

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 5.172e+04 / 90
p0 231.8 ± 0.1776
600
550
500
450
400
350
300
250
200
150

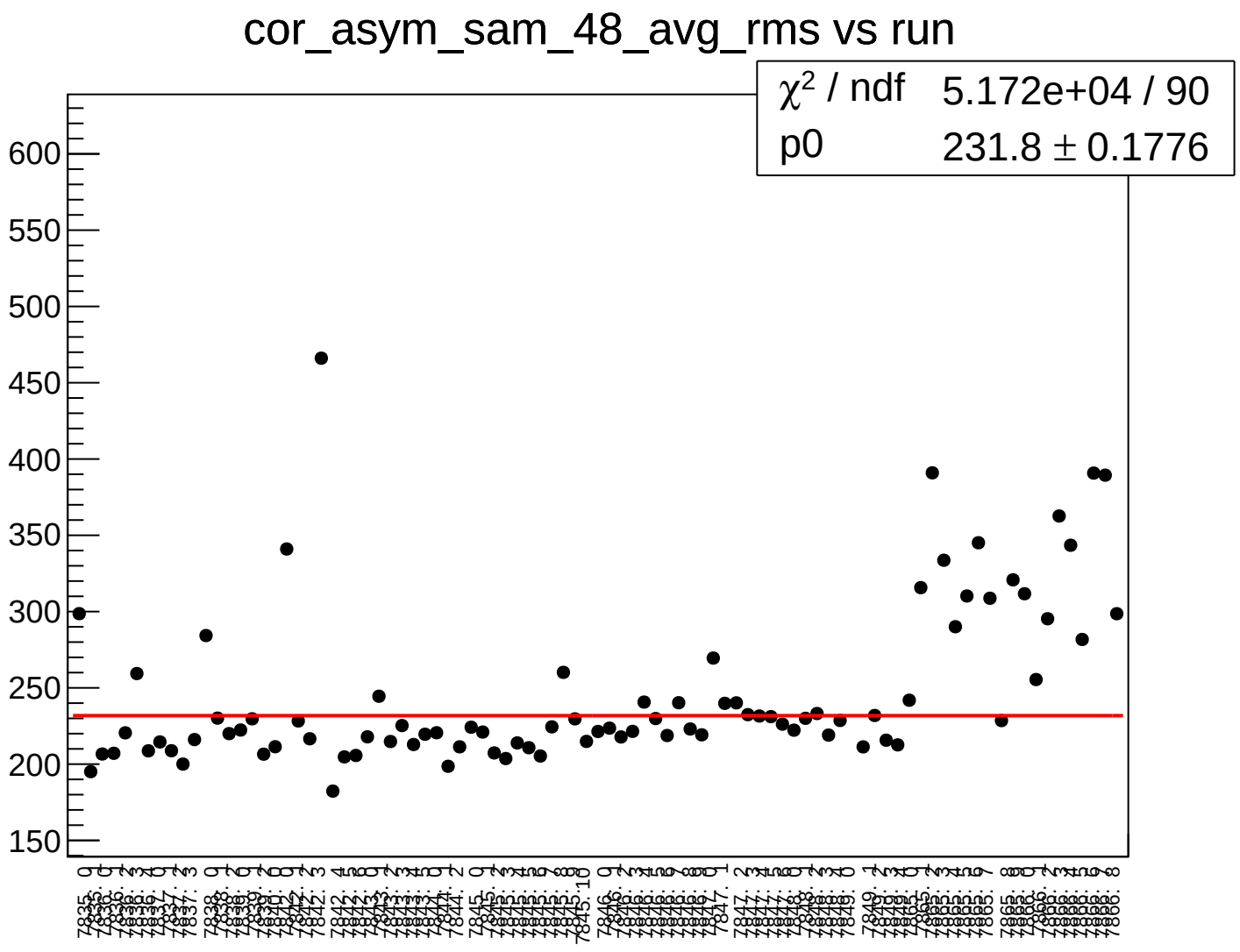

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 78.98 / 90
p0 −992.4 ± 3188
×10³
pull
Entries 91
Mean 155.8
Std Dev 0

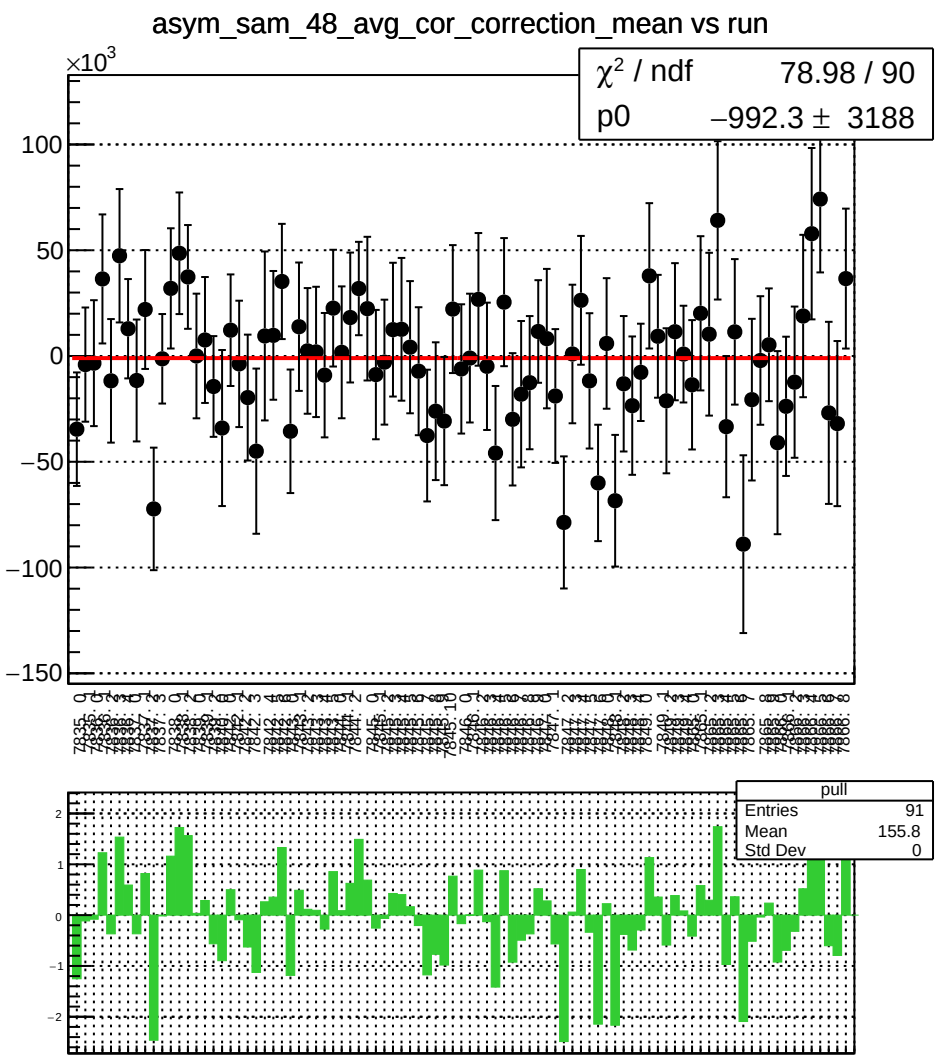

pull1D
Entries 91
Mean −0.0176
Std Dev 0.9315

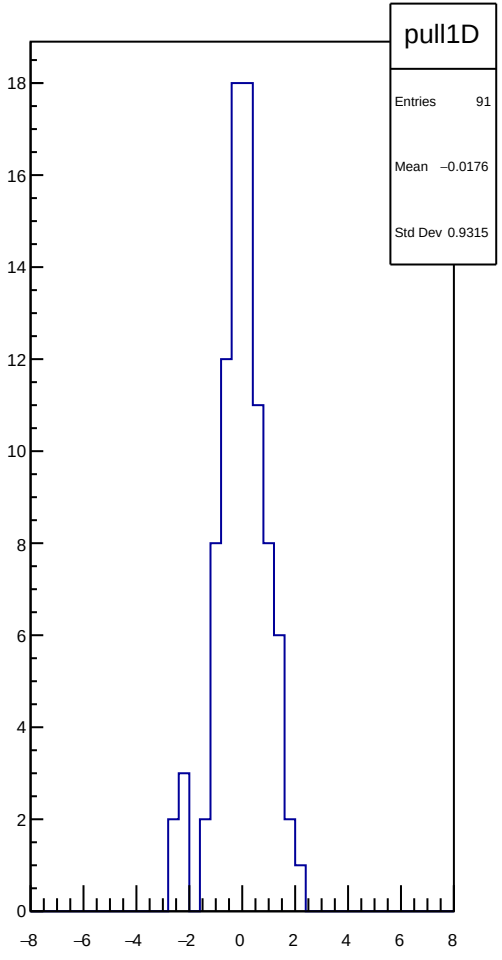

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.645e+04 / 90
p0 2972 ± 2.254
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

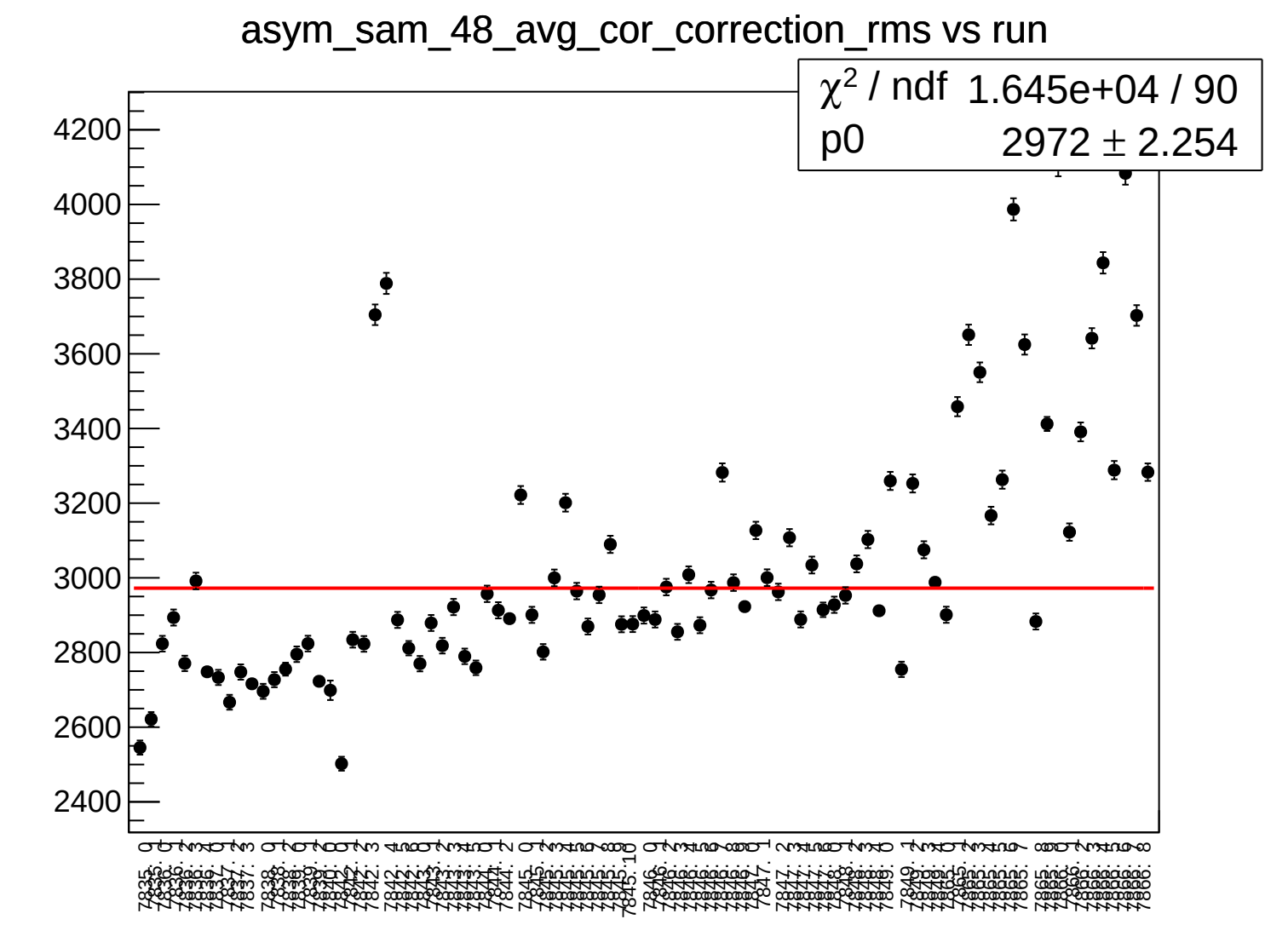

cor_asym_sam_48_avg_mean vs run
χ² / ndf 80.33 / 90
p0 242.3 ± 251.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 118.5
Std Dev 0
2
1
0
−1
−2

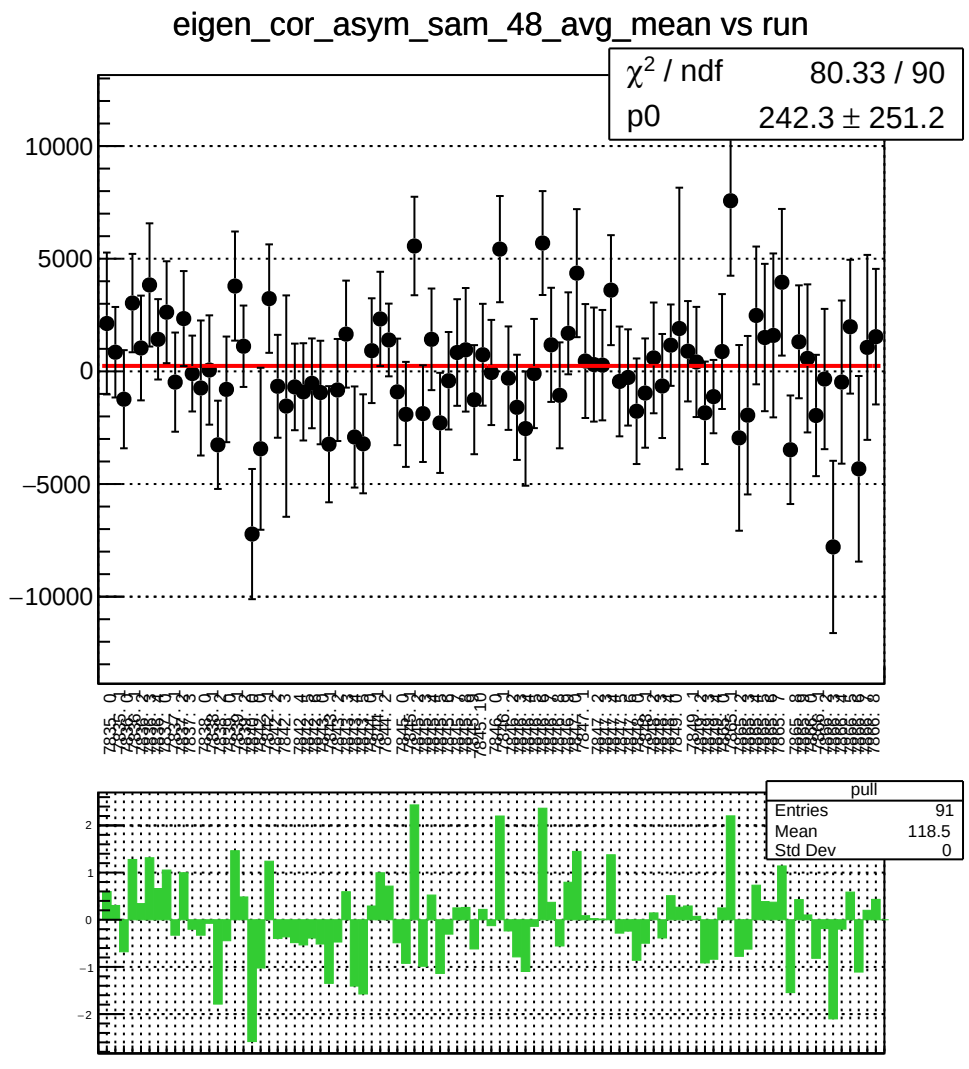

pull1D
Entries 91
Mean −0.009747
Std Dev 0.9395
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

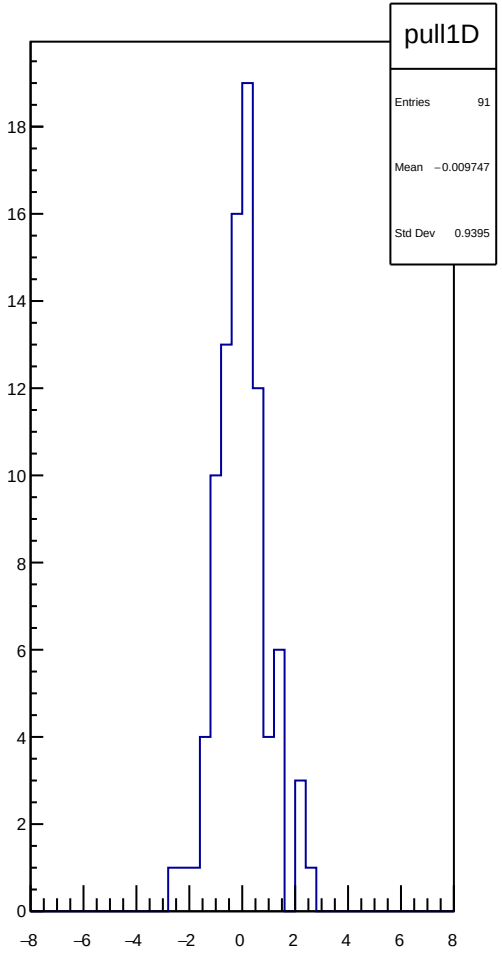

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 5.172e+04 / 90
p0 231.8 ± 0.1776
600
550
500
450
400
350
300
250
200
150

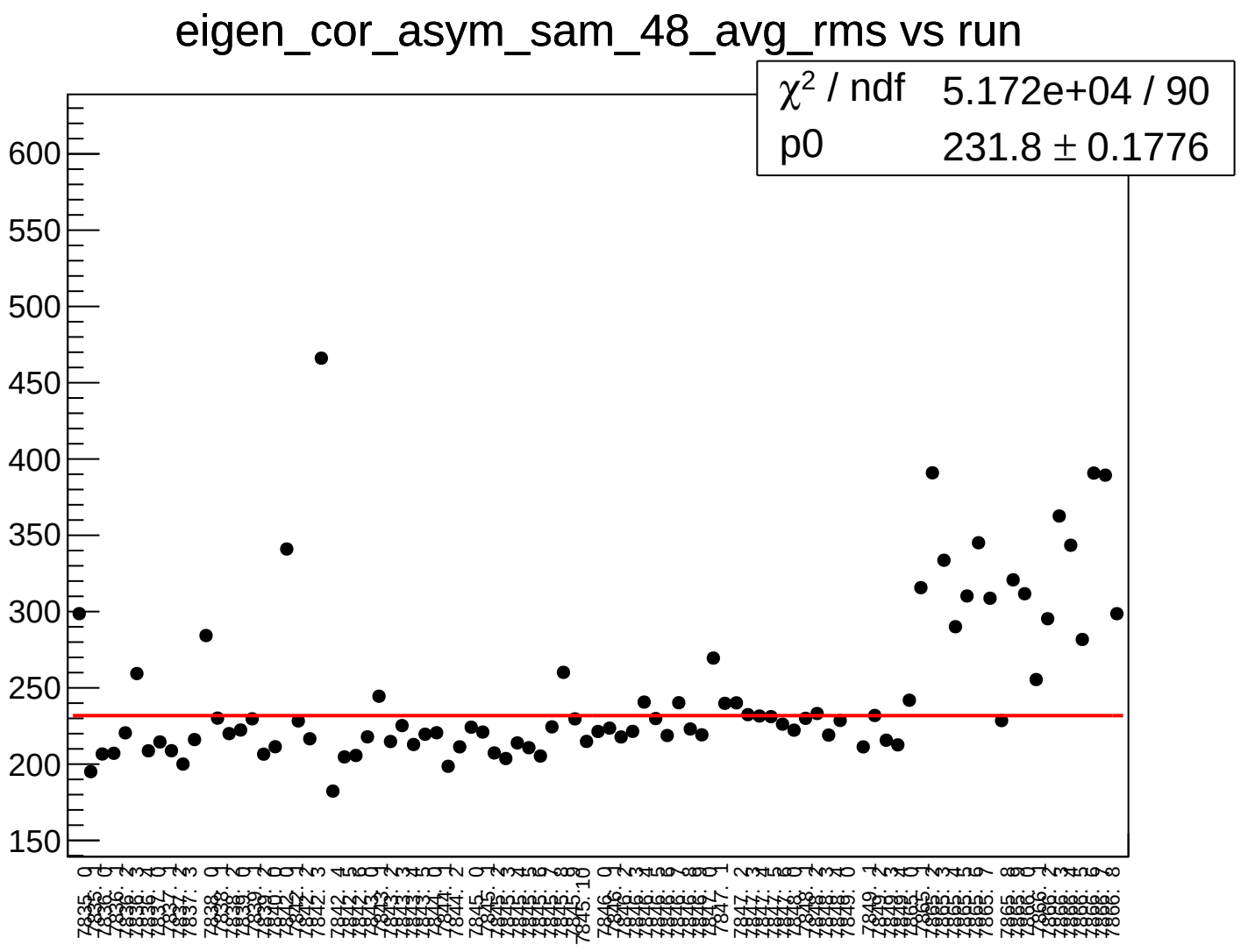

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 78.98 / 90
p0 −992.3 ± 3188
pull
Entries 91
Mean 155.8
Std Dev 0

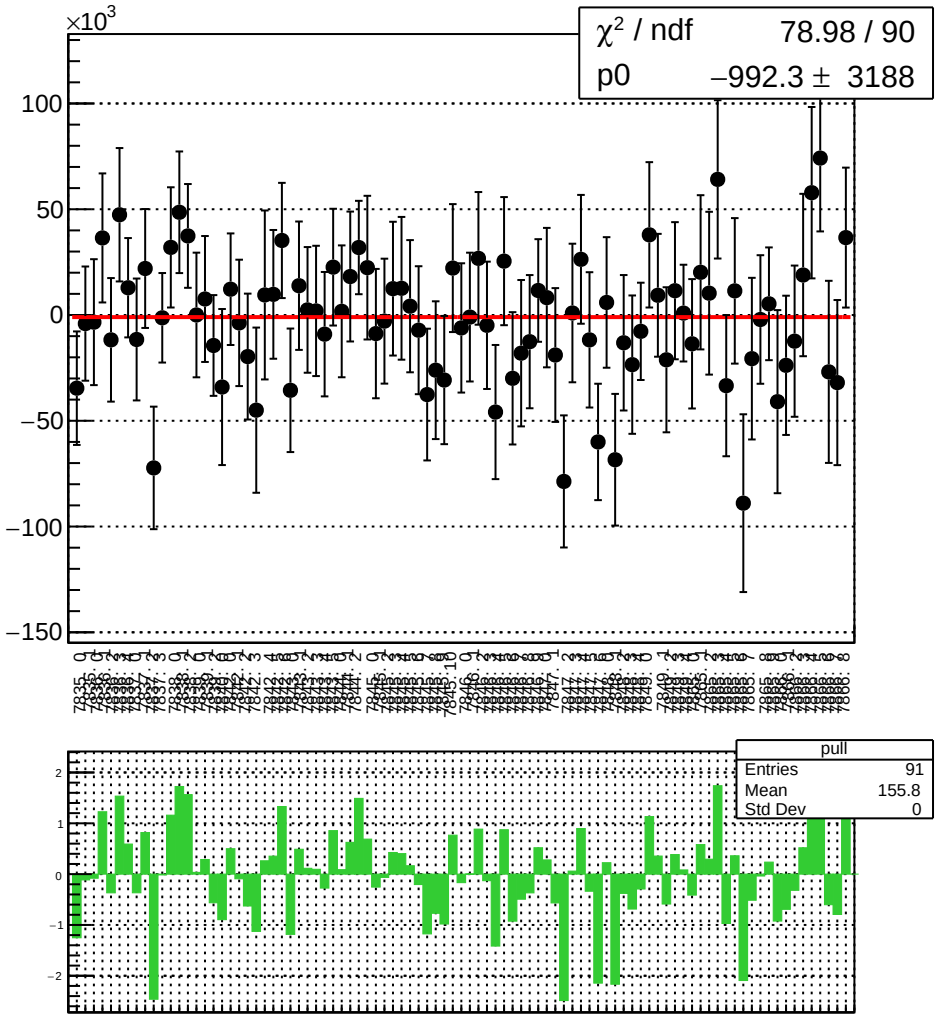

pull1D
Entries 91
Mean −0.0176
Std Dev 0.9315

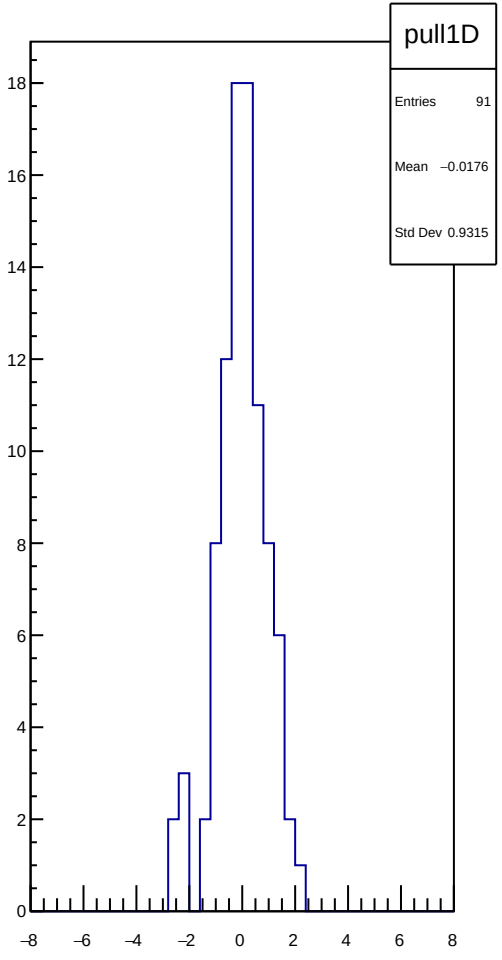

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.645e+04 / 90
p0 2972 ± 2.254
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

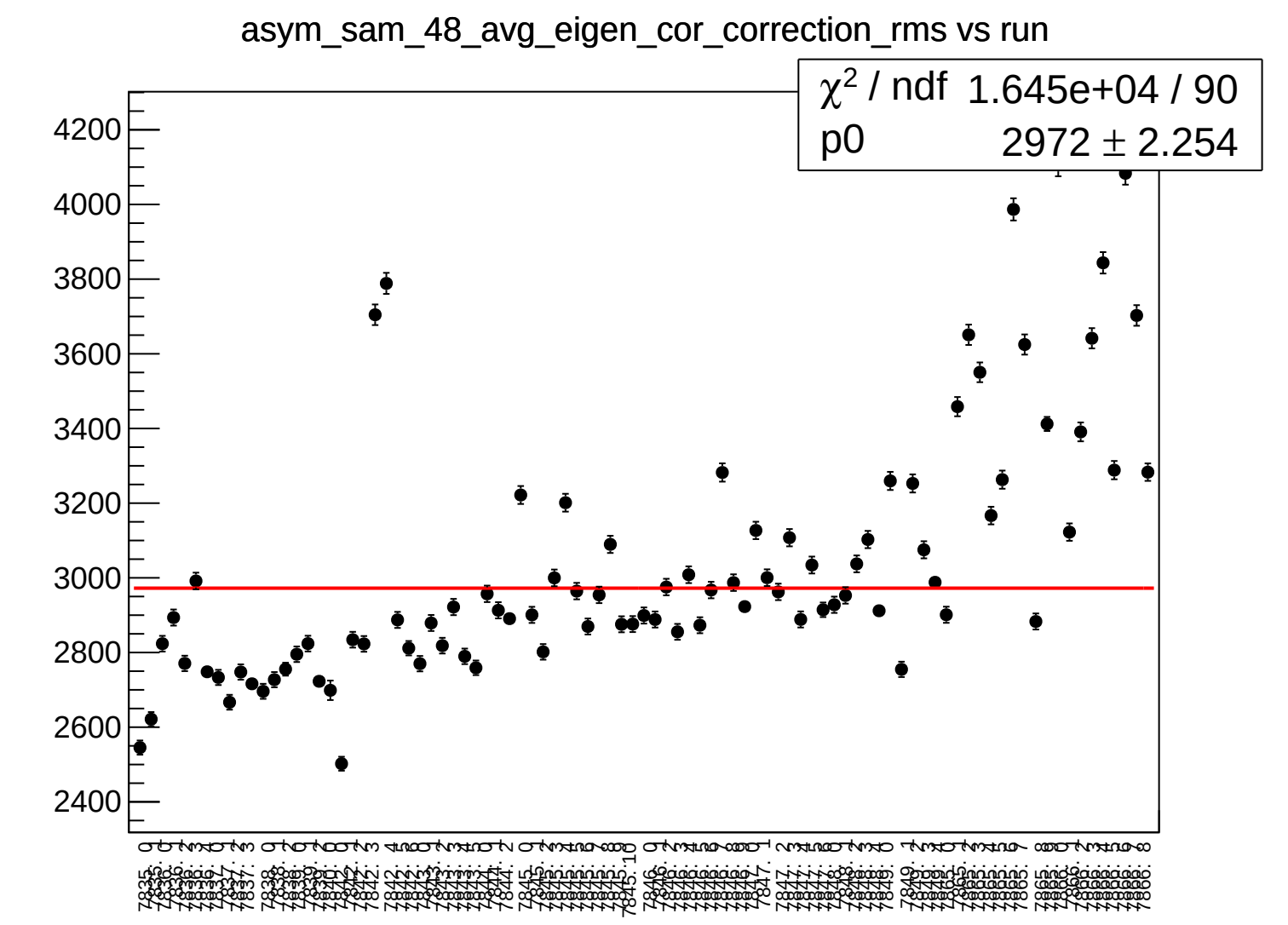

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 80.33 / 90
p0 242.3 ± 251.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 118.5
Std Dev 0
2
1
0
−1
−2

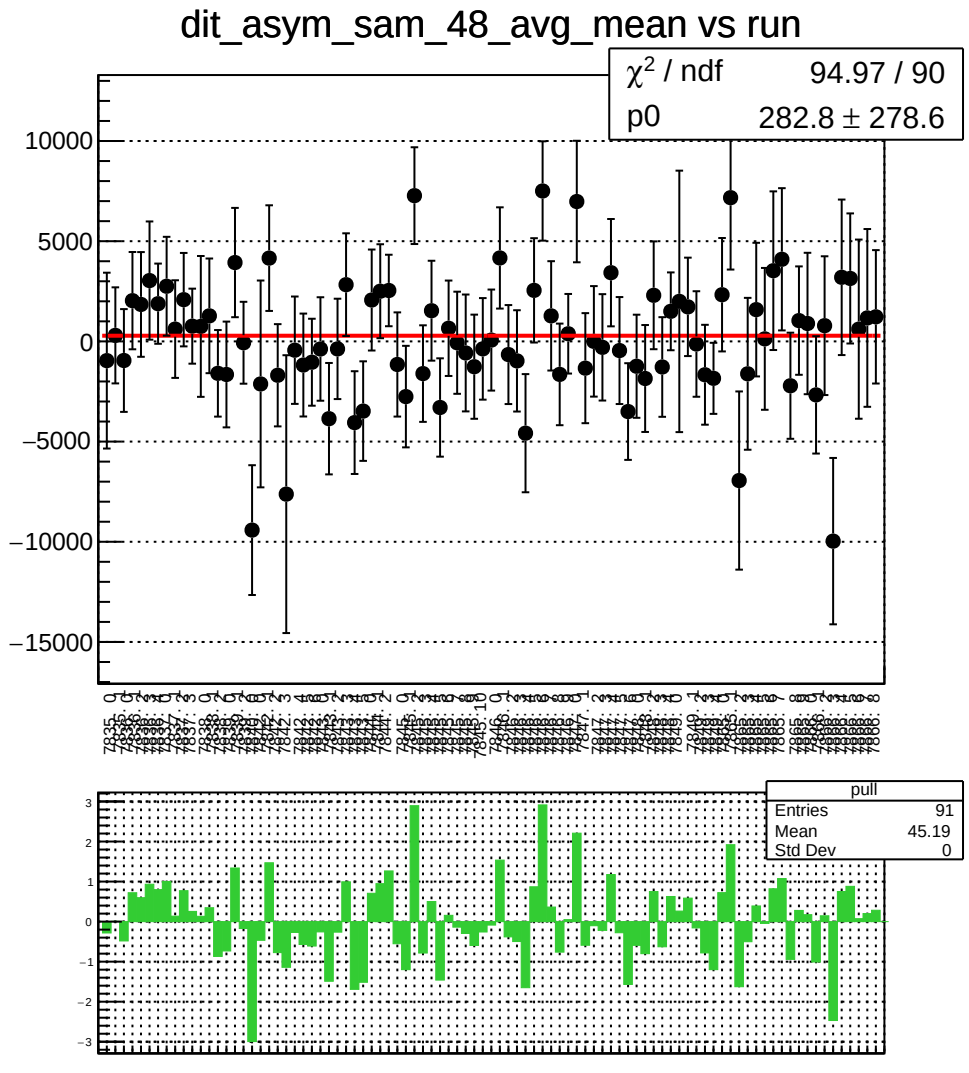

pull1D
Entries 91
Mean −0.009747
Std Dev 0.9395
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

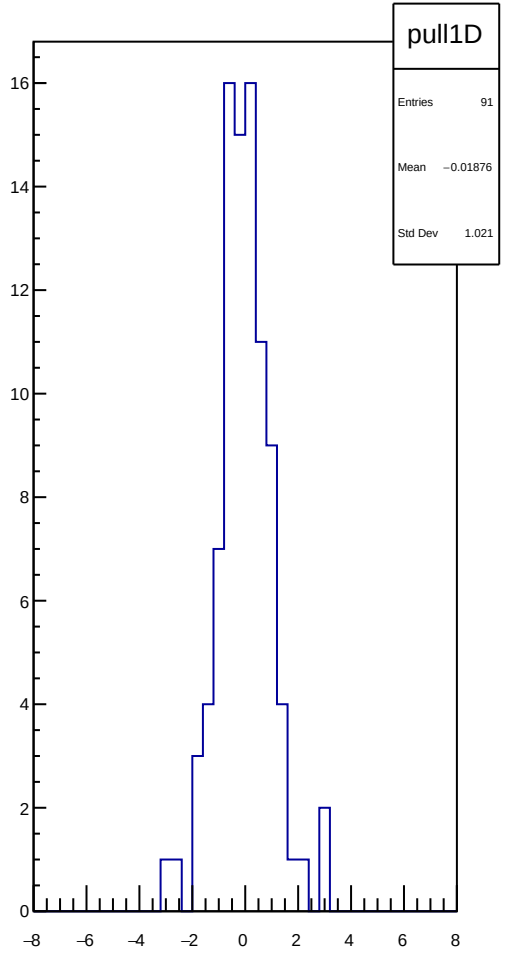

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 5.172e+04 / 90
p0 231.8 ± 0.1776
600
550
500
450
400
350
300
250
200
150

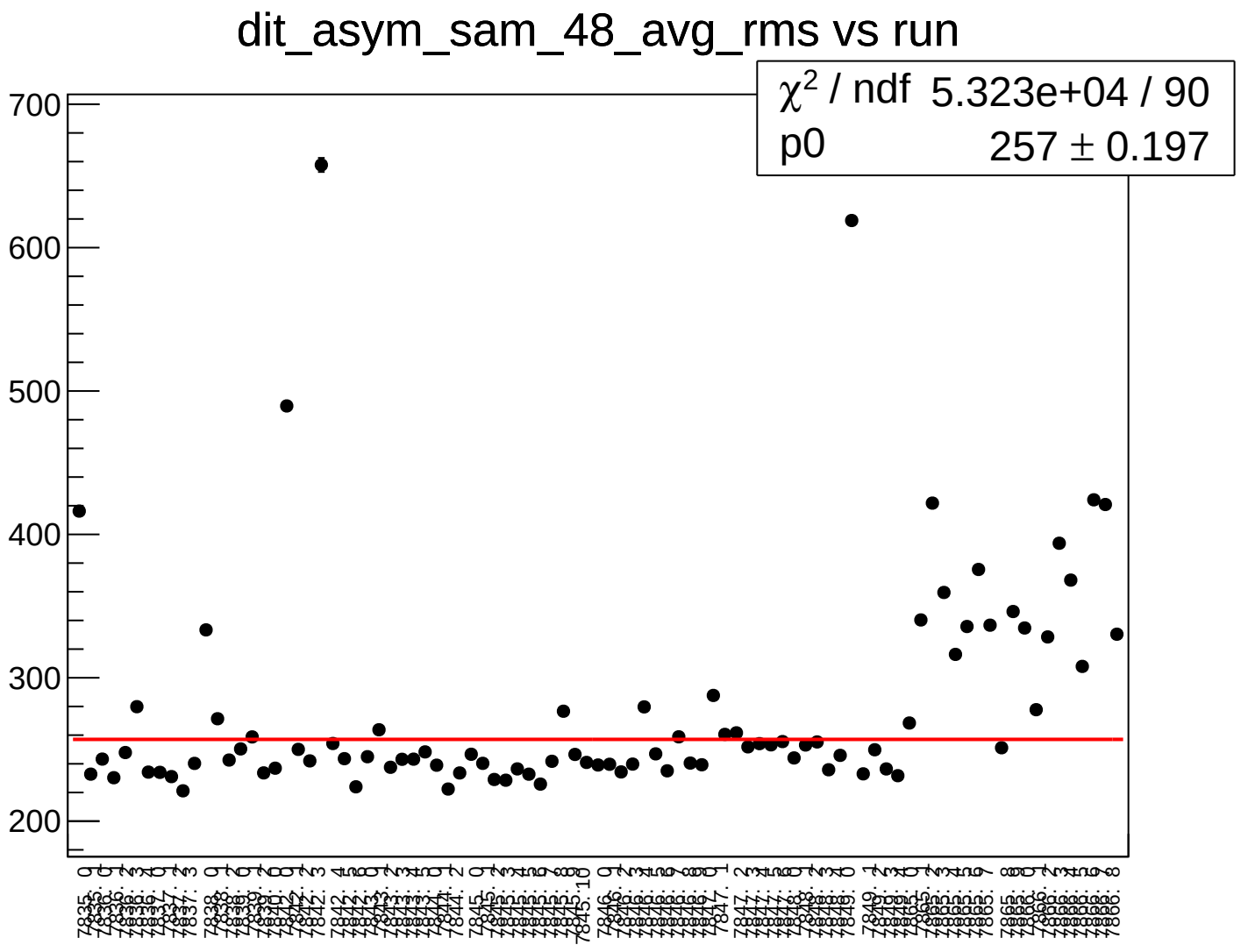

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.98 / 90
p0 −992.3 ± 3188
100
50
0
−50
−100
−150
pull
Entries 91
Mean 155.8
Std Dev 0
2
1
0
−1
−2

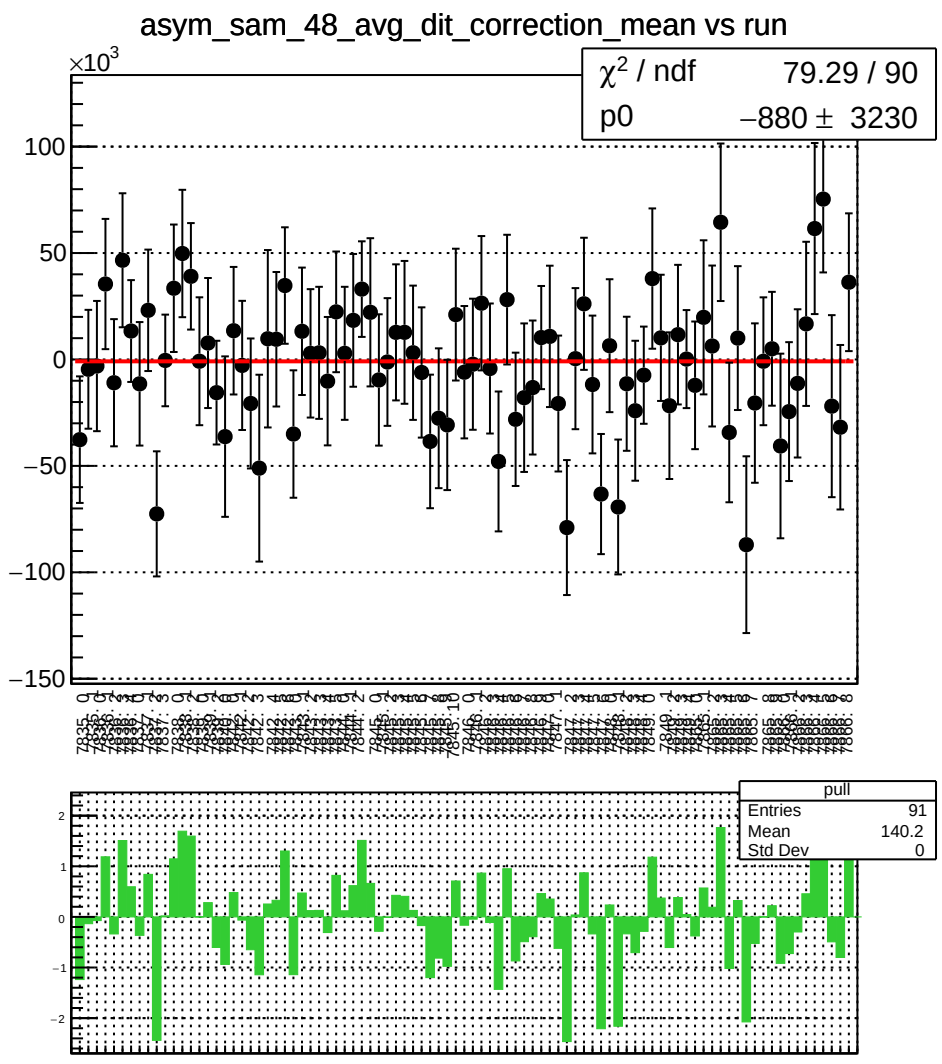

pull1D
Entries 91
Mean −0.0176
Std Dev 0.9315
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

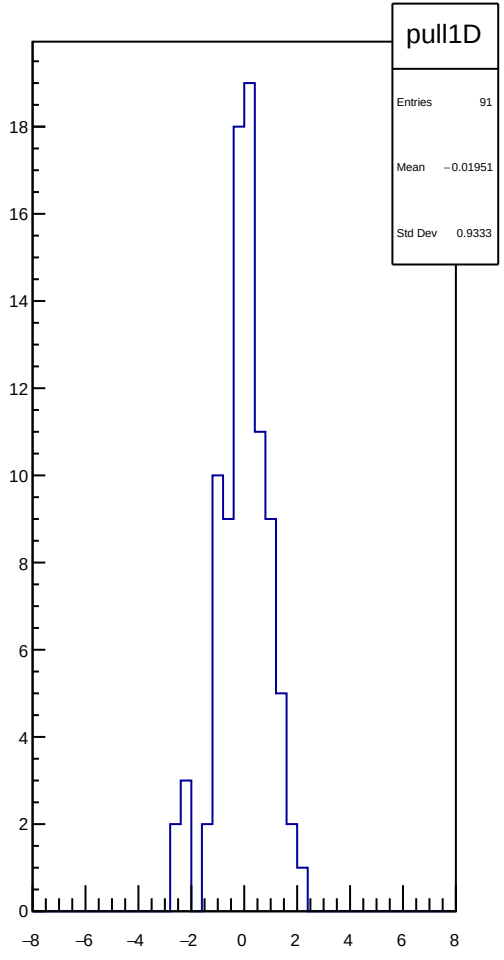

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.645e+04 / 90
p0 2972 ± 2.254
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

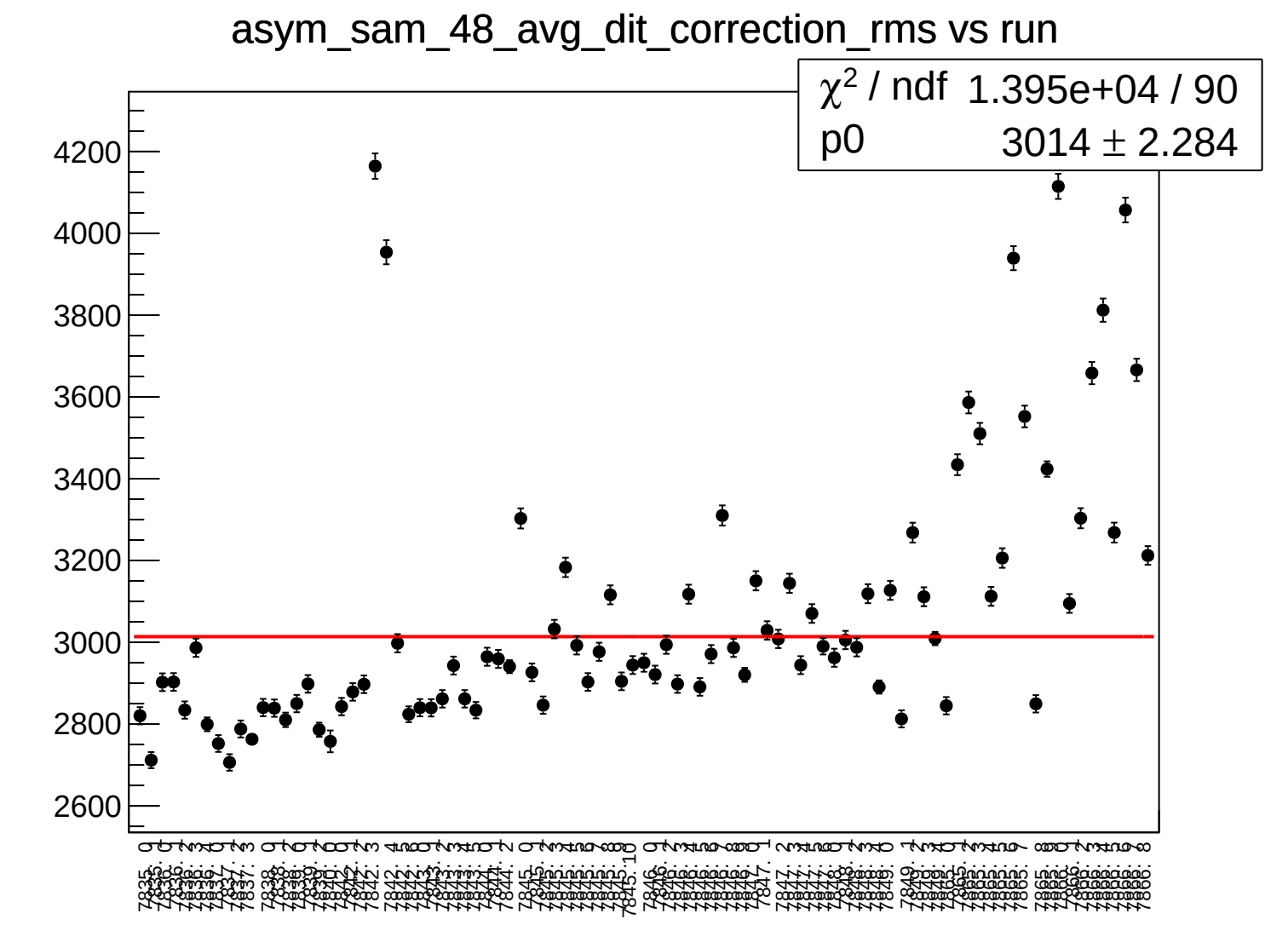

dit_asym_sam_48_avg_mean vs run
χ² / ndf 94.97 / 90
p0 282.8 ± 278.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 45.19
Std Dev 0
3
2
1
0
−1
−2
−3

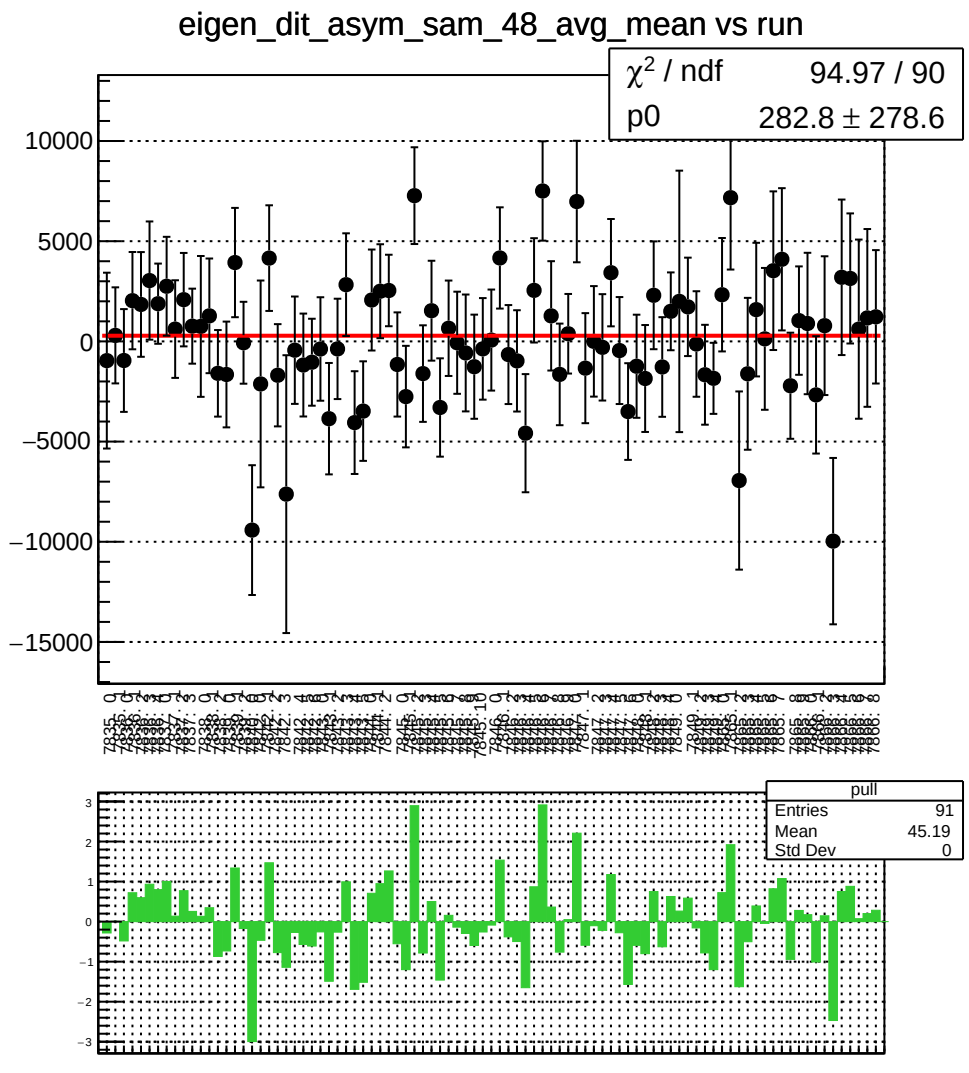

pull1D
Entries 91
Mean −0.01876
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

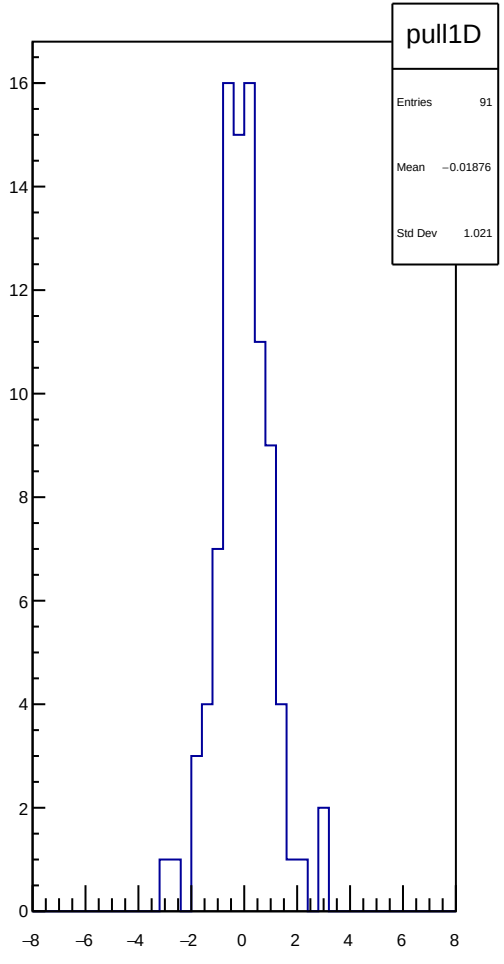

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 5.323e+04 / 90
p0 257 ± 0.197
700
600
500
400
300
200

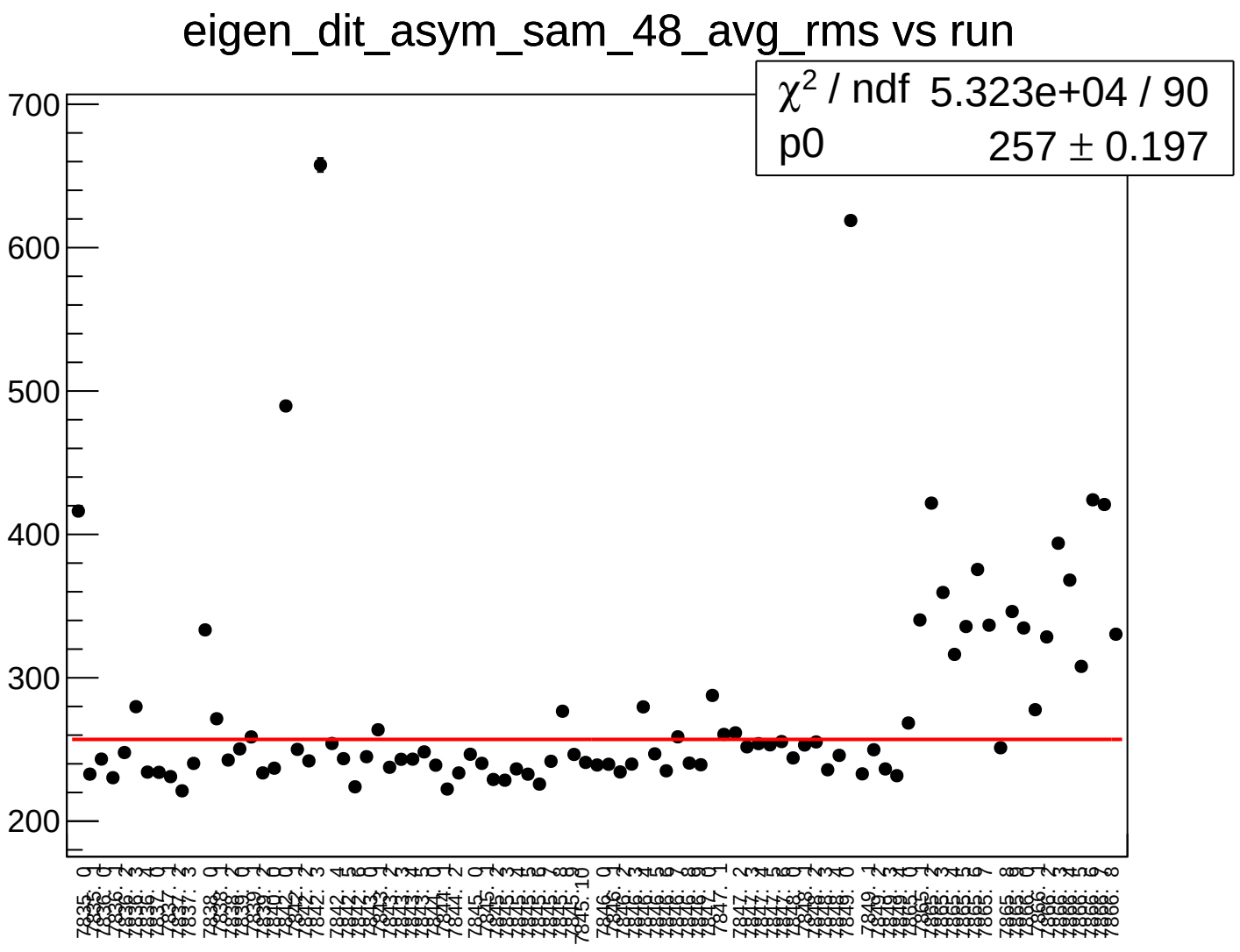

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.29 / 90
p0 −880 ± 3230
100
50
0
−50
−100
−150
pull
Entries 91
Mean 140.2
Std Dev 0
2
1
0
−1
−2

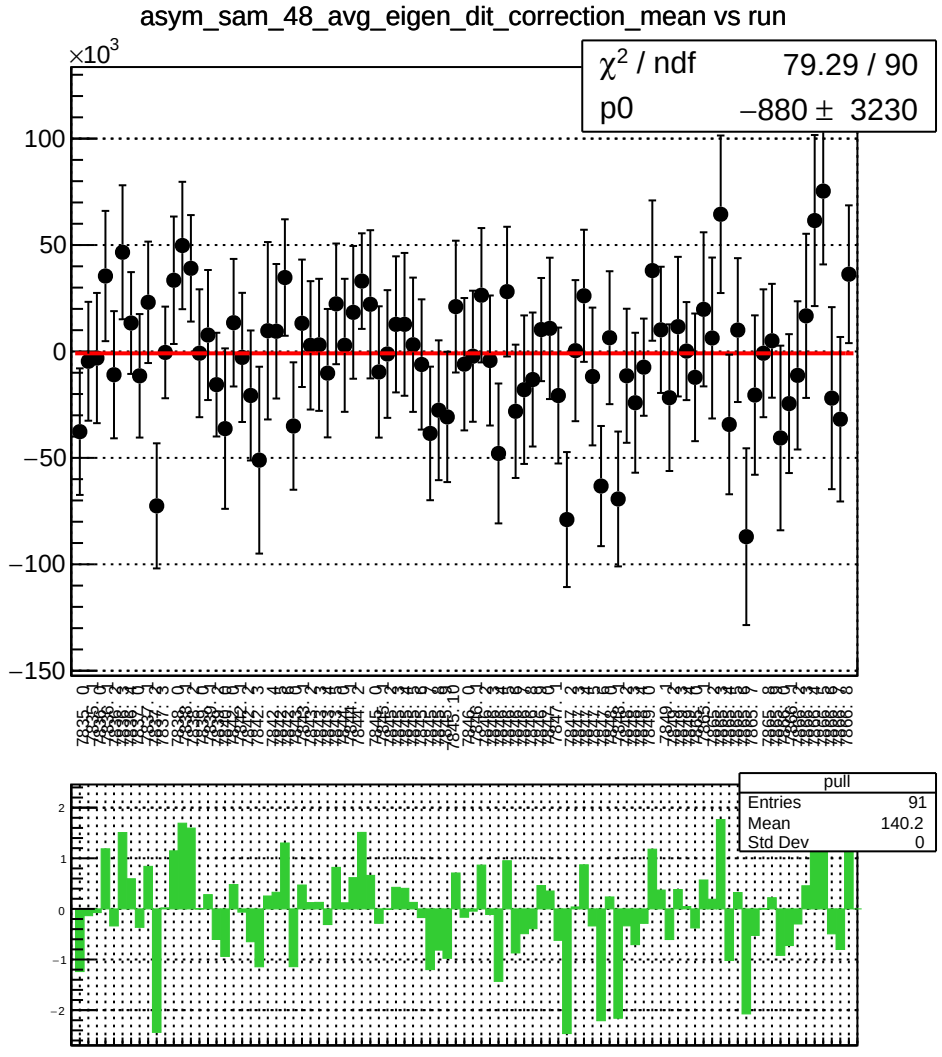

pull1D
Entries 91
Mean −0.01951
Std Dev 0.9333
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

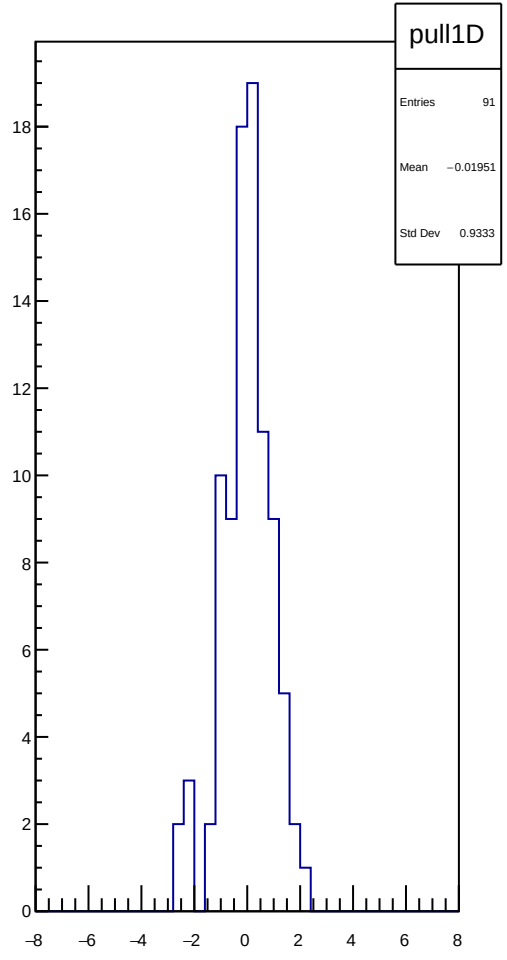

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1.395e+04 / 90
p0 3014 ± 2.284
4200
4000
3800
3600
3400
3200
3000
2800
2600

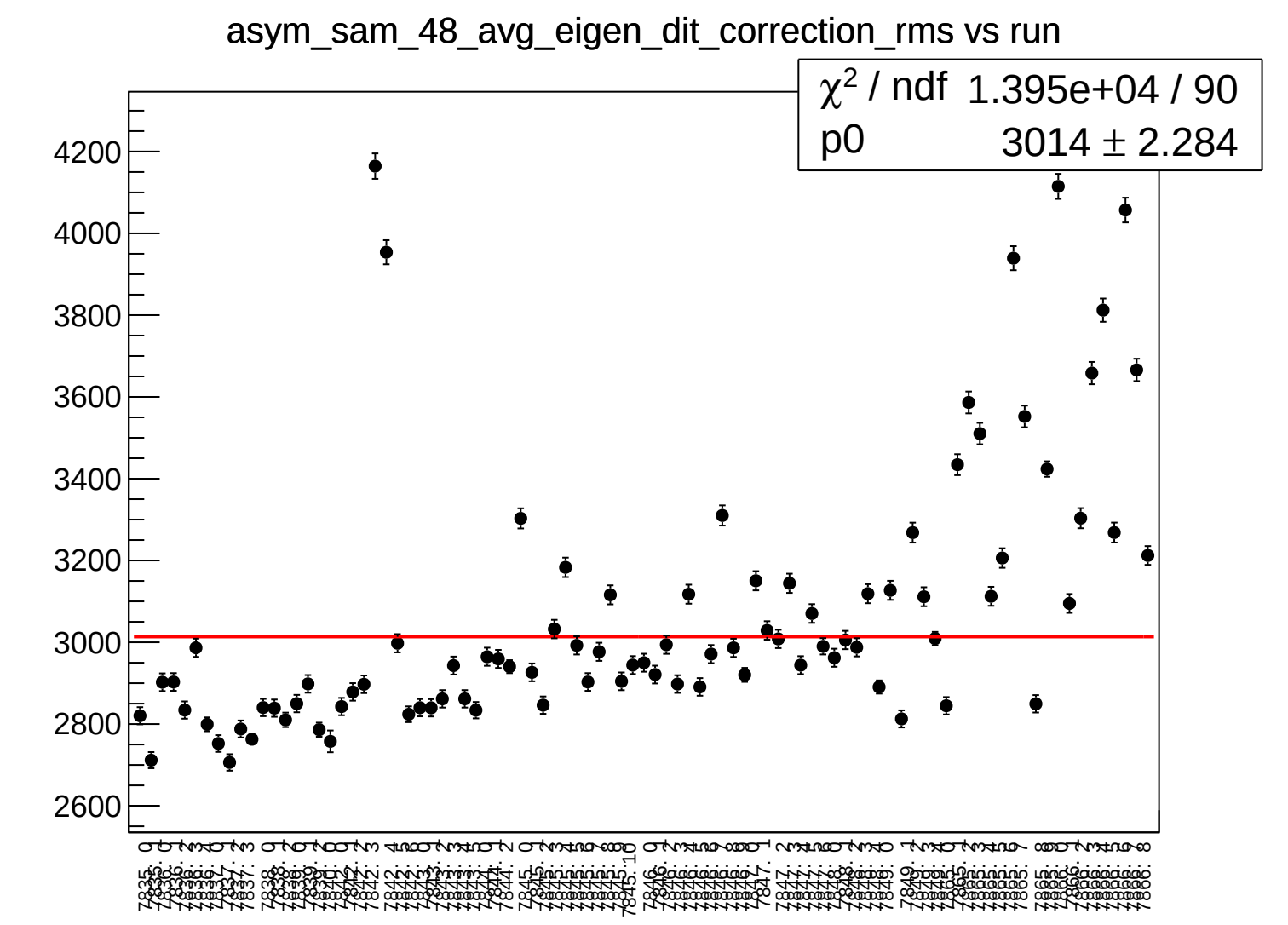

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 94.97 / 90
p0 282.8 ± 278.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 45.19
Std Dev 0
3
2
1
0
−1
−2
−3

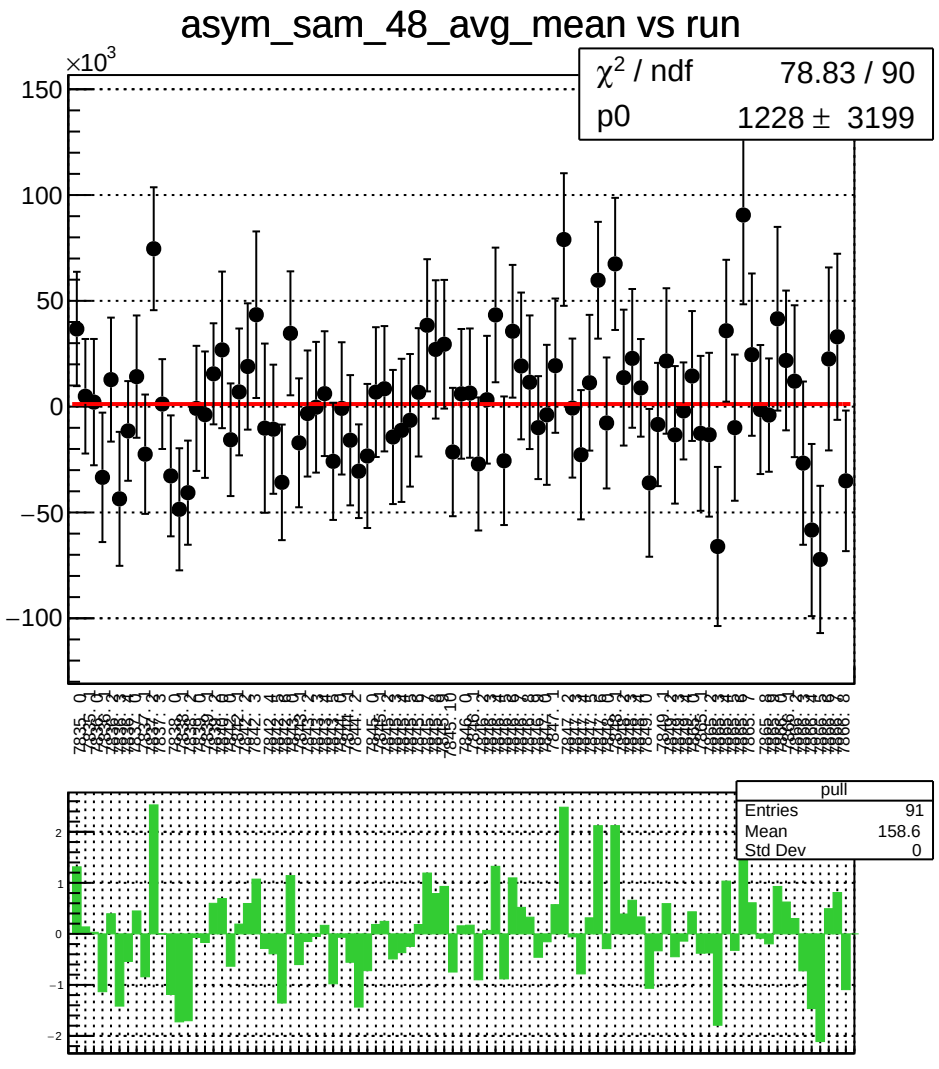

pull1D
Entries 91
Mean −0.01876
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

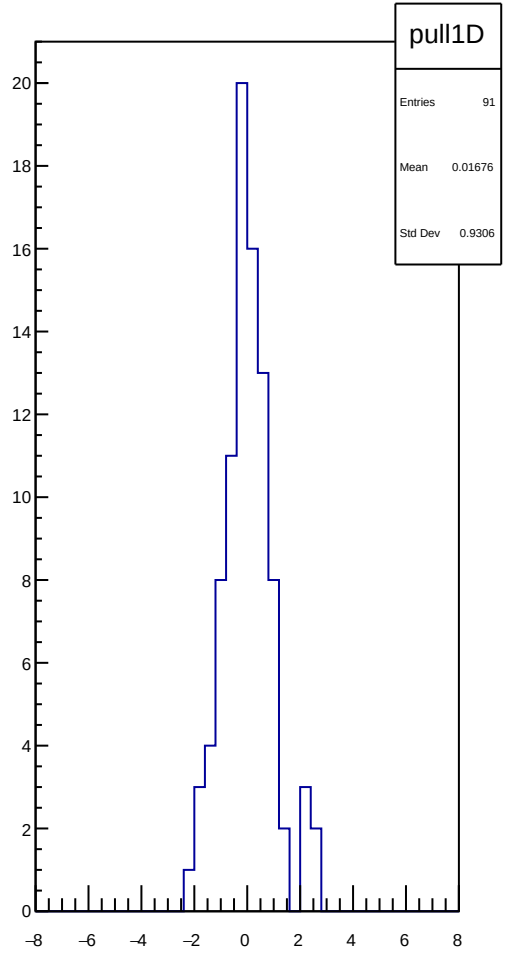

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 5.323e+04 / 90
p0 257 ± 0.197
700
600
500
400
300
200

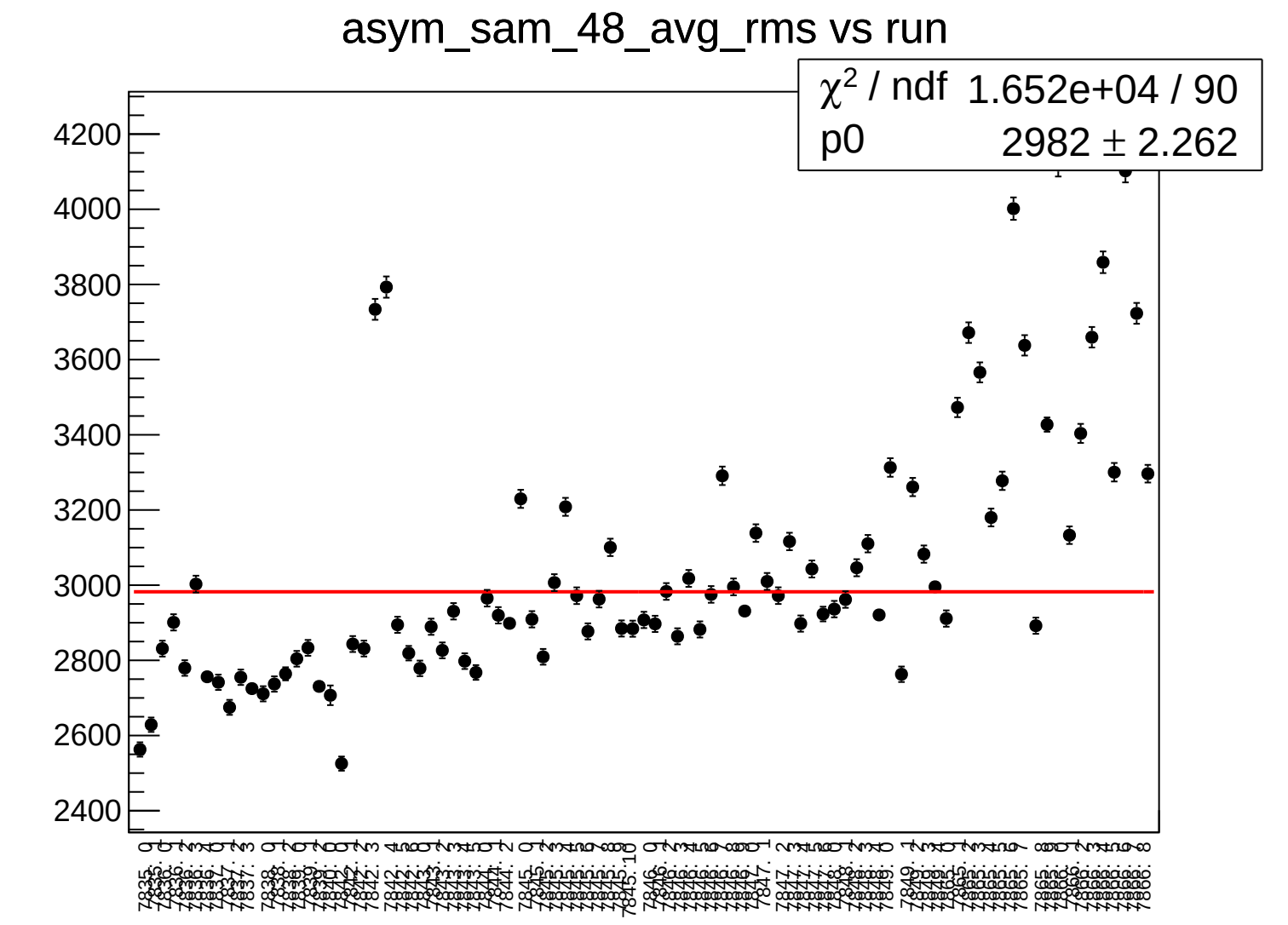

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.29 / 90
p0 −880 ± 3230
pull
Entries 91
Mean 140.2
Std Dev 0

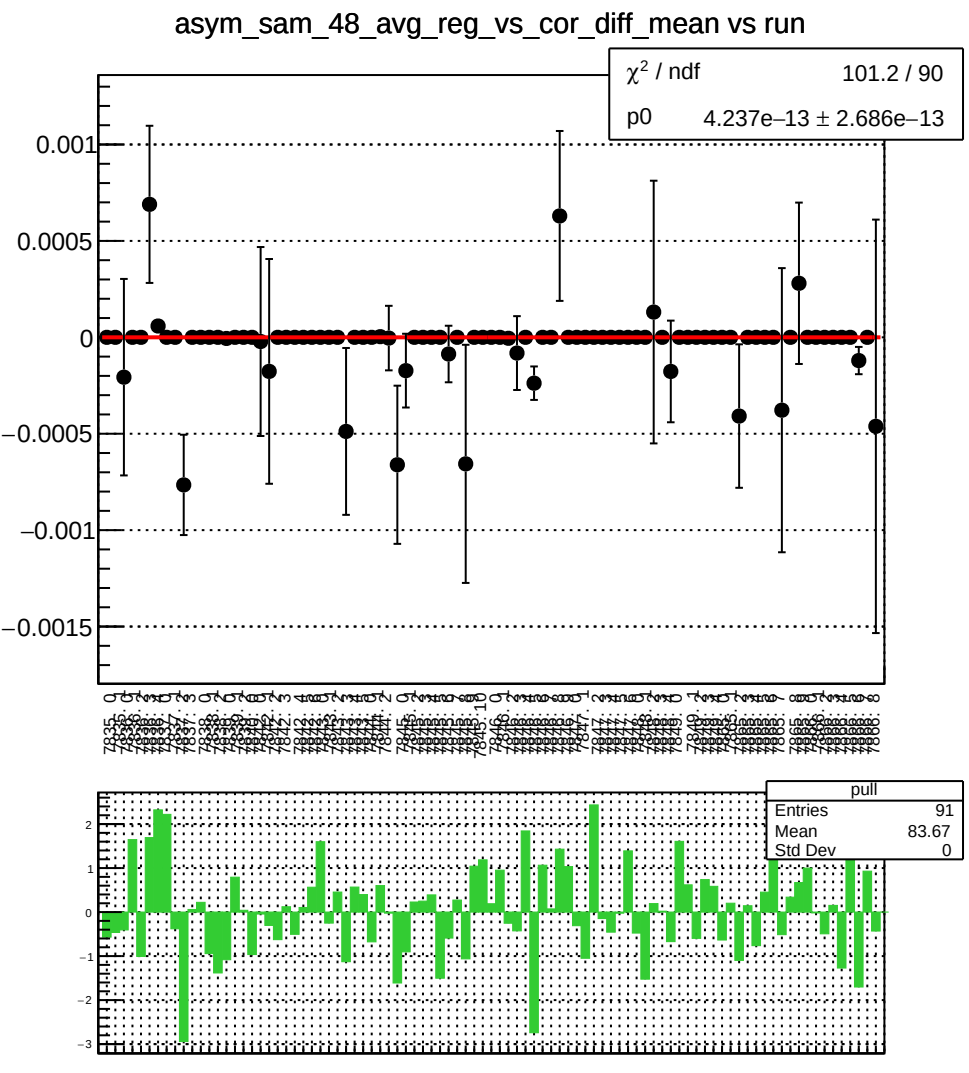

pull1D
Entries 91
Mean −0.01951
Std Dev 0.9333

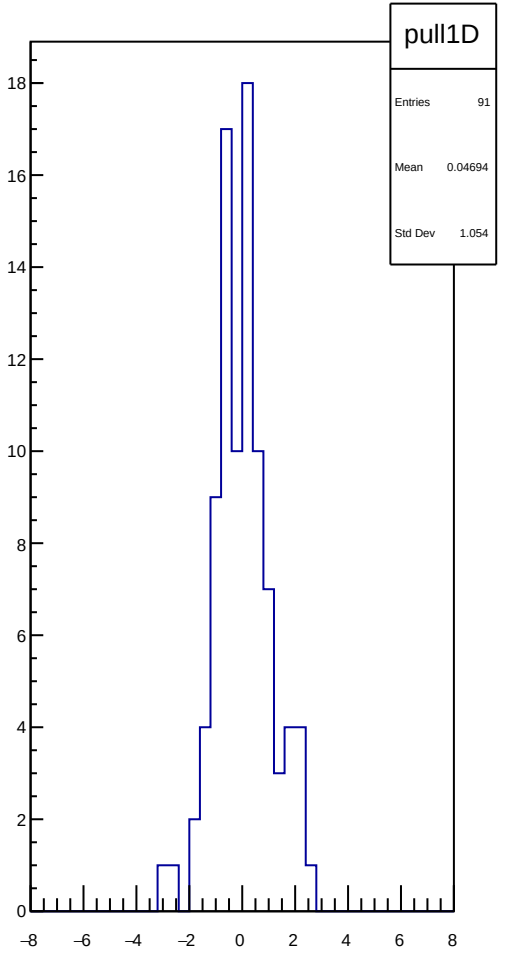

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.395e+04 / 90
p0 3014 ± 2.284
4200
4000
3800
3600
3400
3200
3000
2800
2600

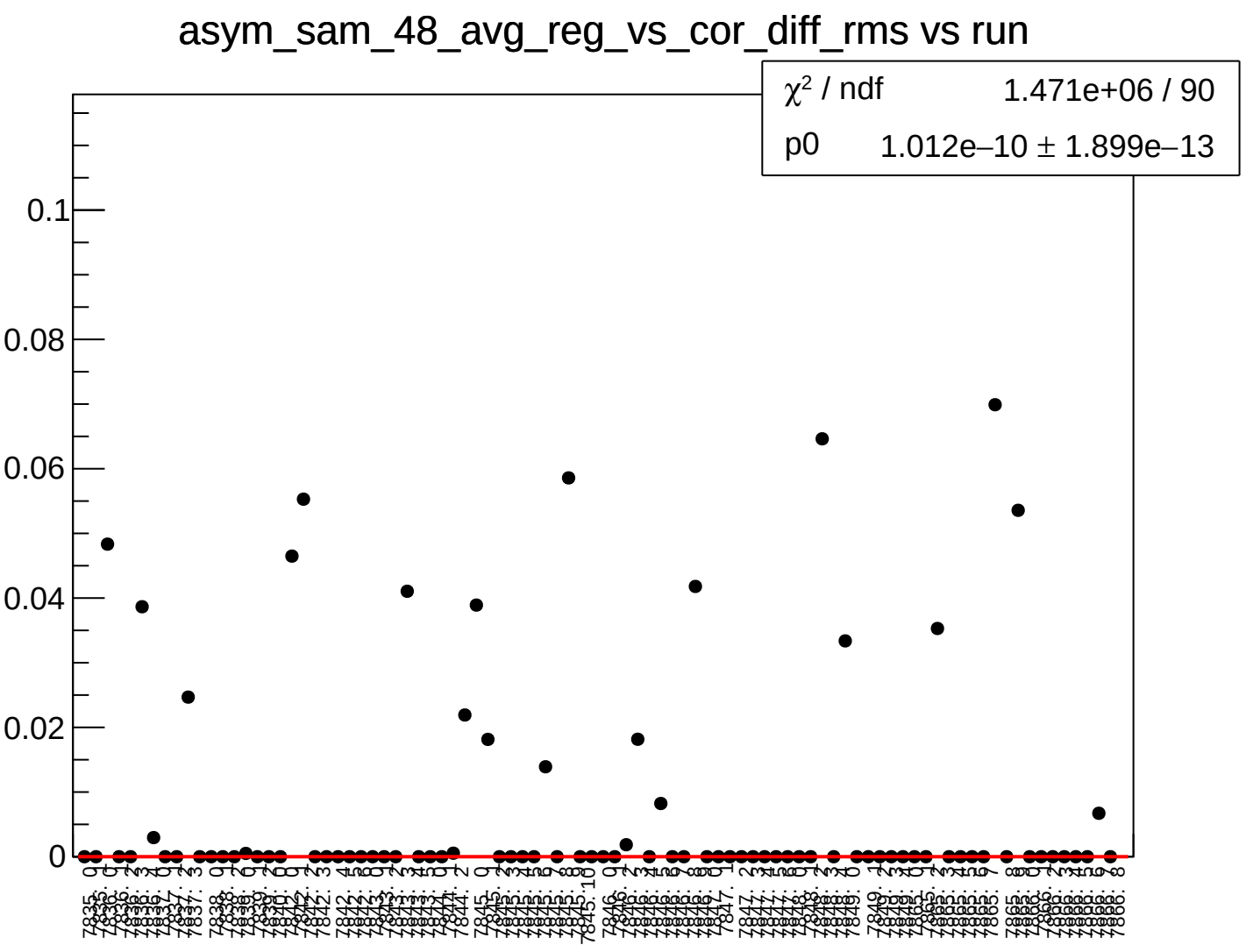

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 78.83 / 90
p0 1228 ± 3199
150
100
50
0
−50
−100
pull
Entries 91
Mean 158.6
Std Dev 0
2
1
0
−1
−2

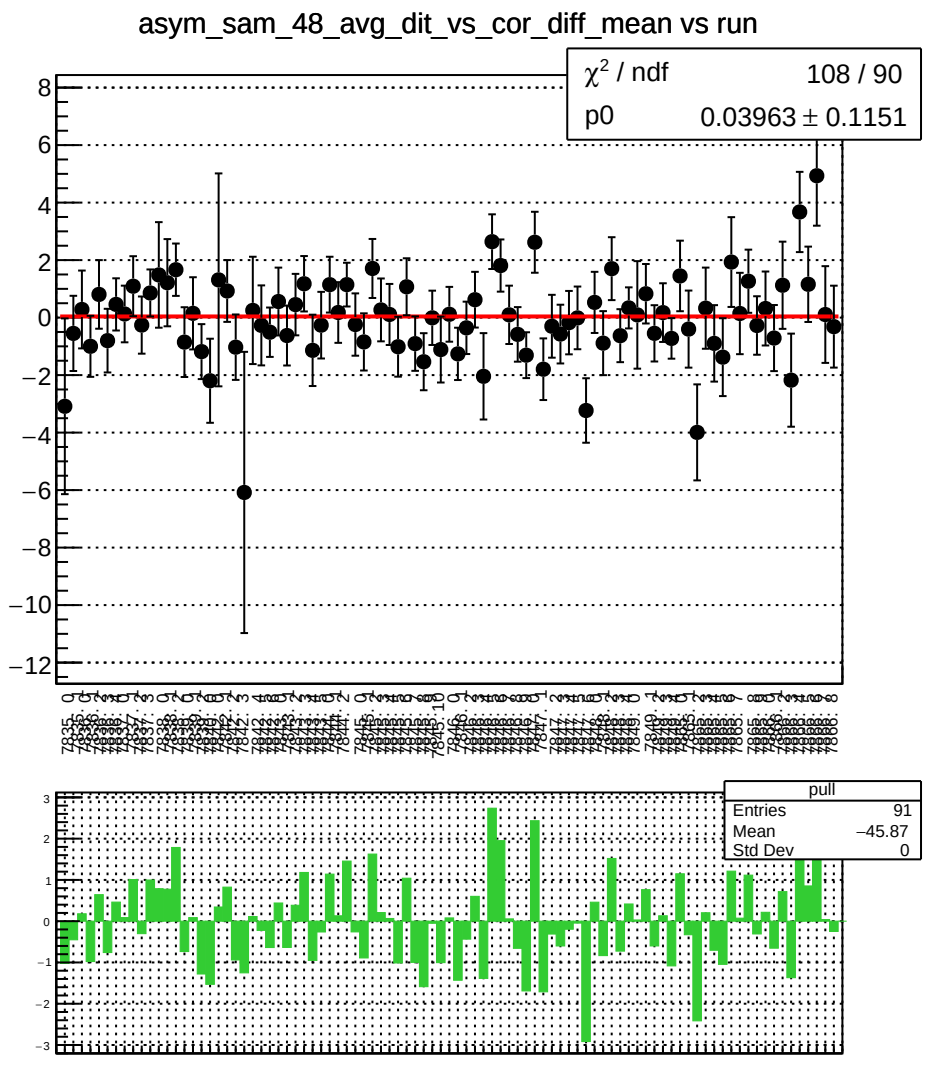

pull1D
Entries 91
Mean 0.01676
Std Dev 0.9306
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

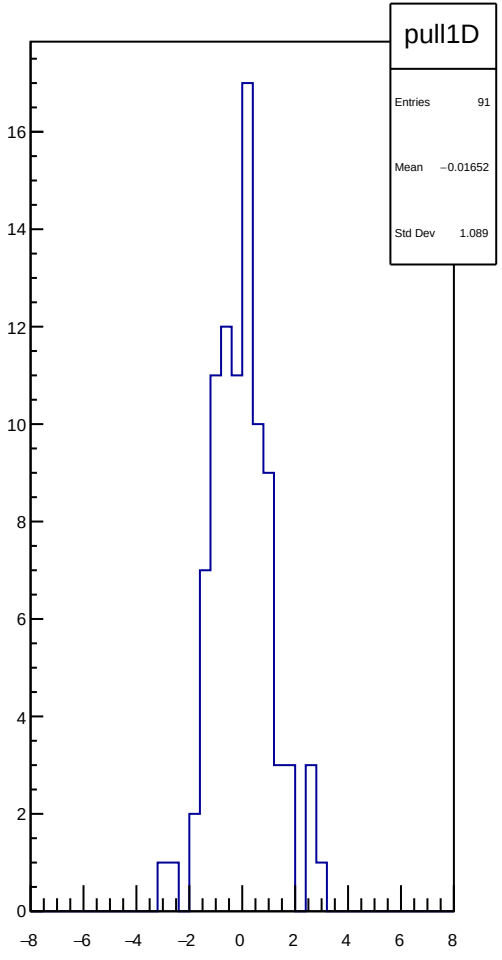

asym_sam_48_avg_rms vs run
χ^2 / ndf 1.652e+04 / 90
p0 2982 ± 2.262
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

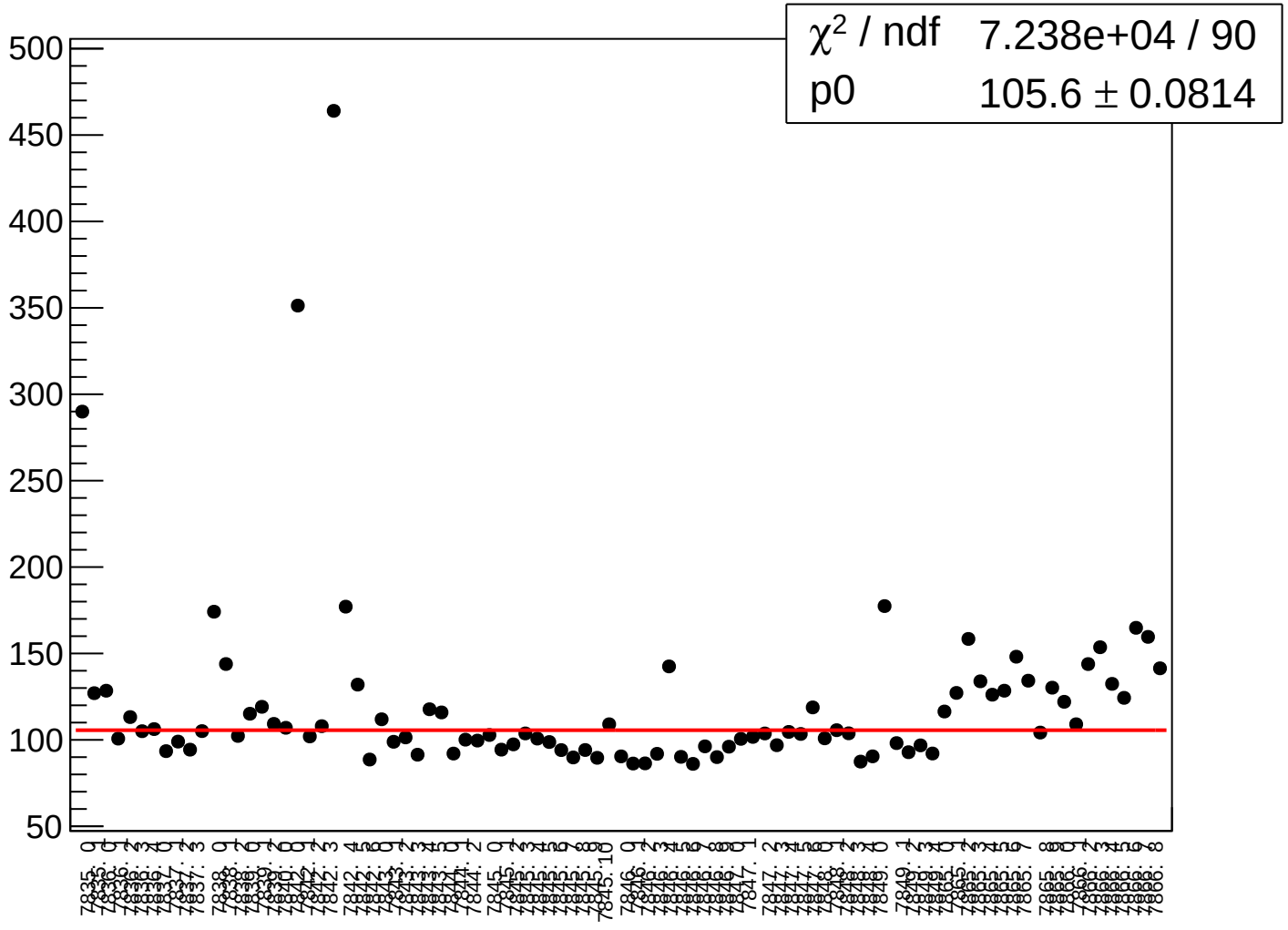

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 90
p0 4.237e−13 ± 2.686e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 83.67
Std Dev 0
2
1
0
−1
−2
−3

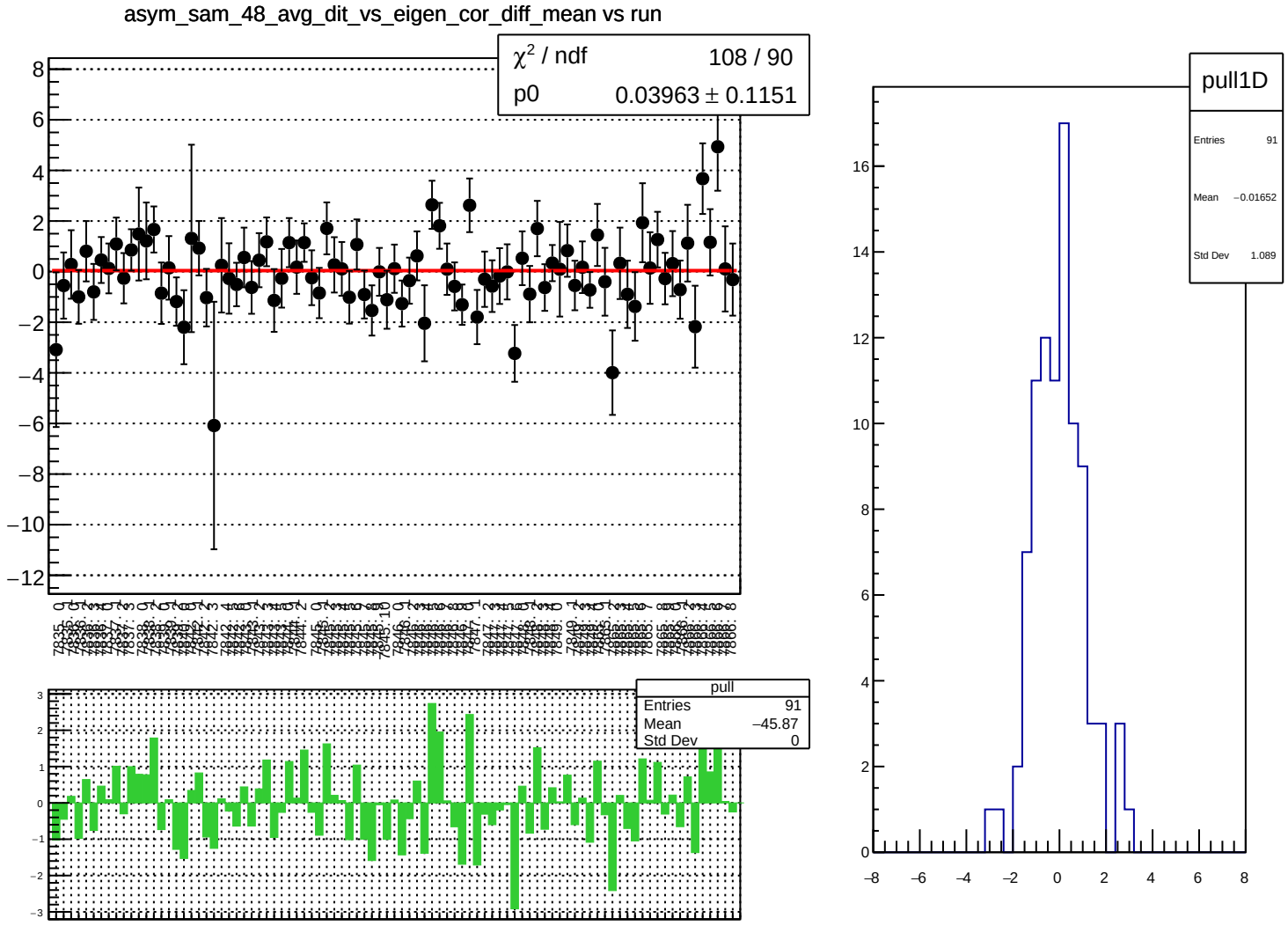

pull1D
Entries 91
Mean 0.04694
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

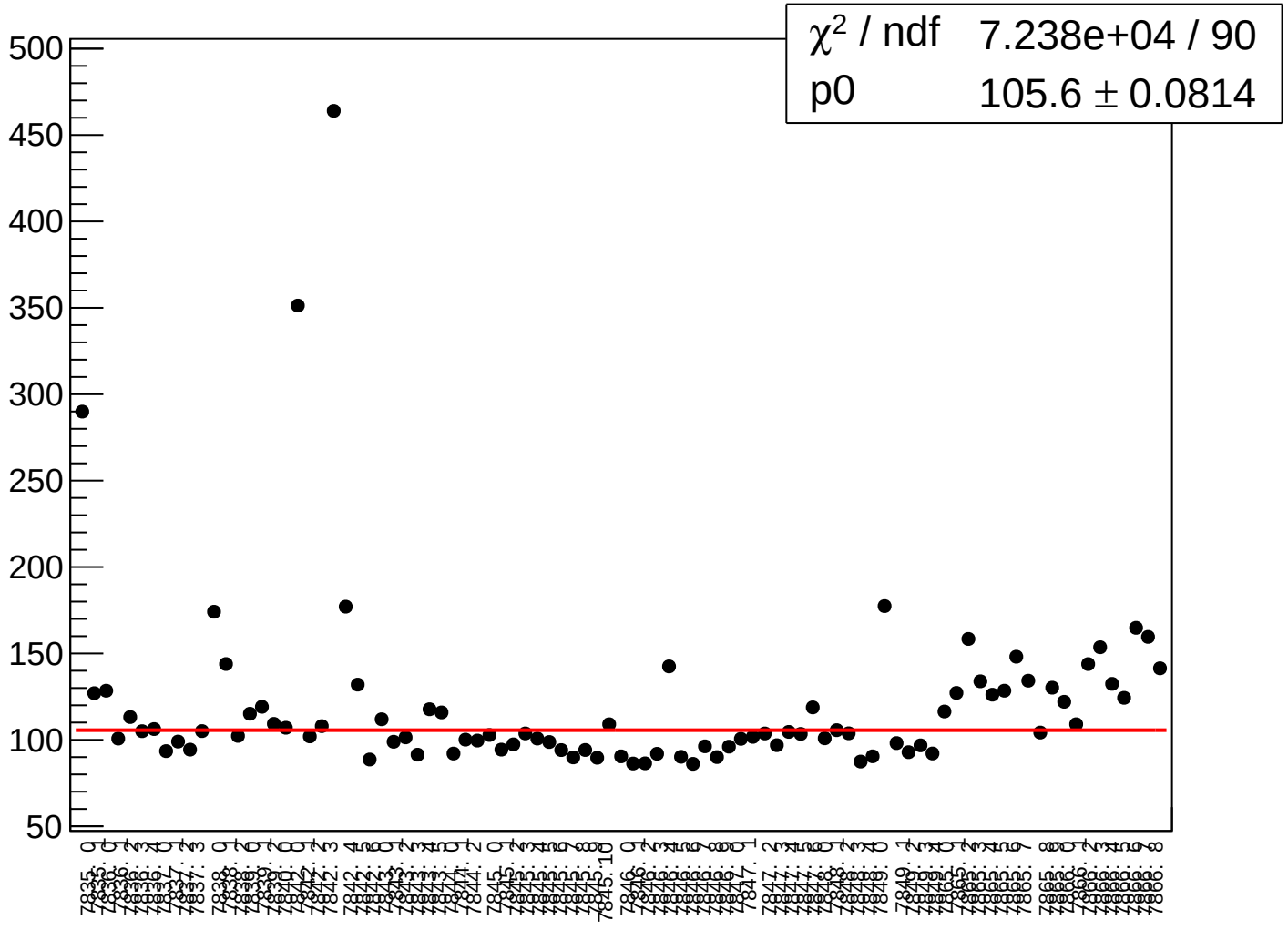

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.471e+06 / 90
p0 1.012e−10 ± 1.899e−13
0.1
0.08
0.06
0.04
0.02
0

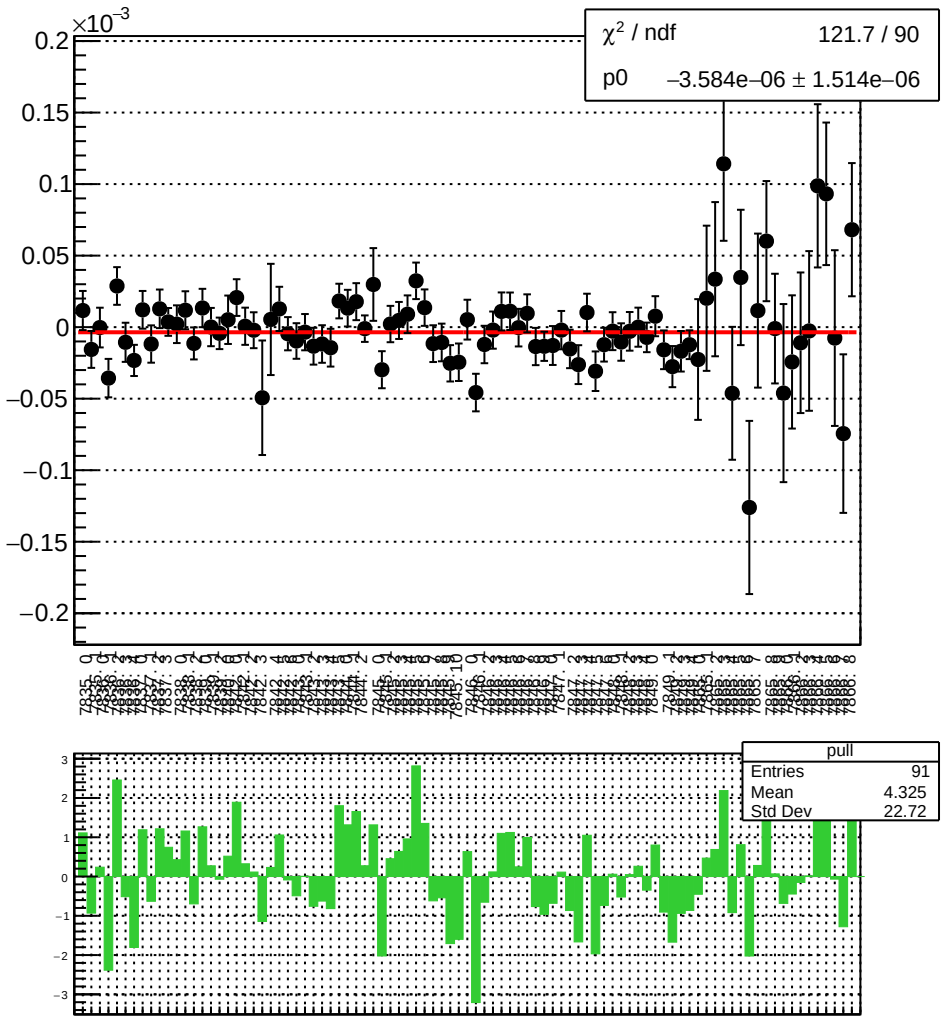

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.03963 ± 0.1151
pull
Entries 91
Mean −45.87
Std Dev 0

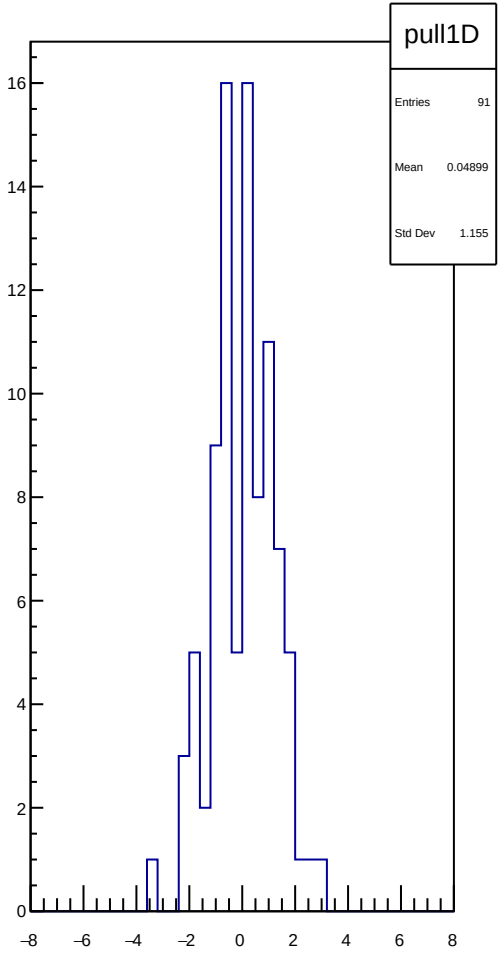

pull1D
Entries 91
Mean −0.01652
Std Dev 1.089

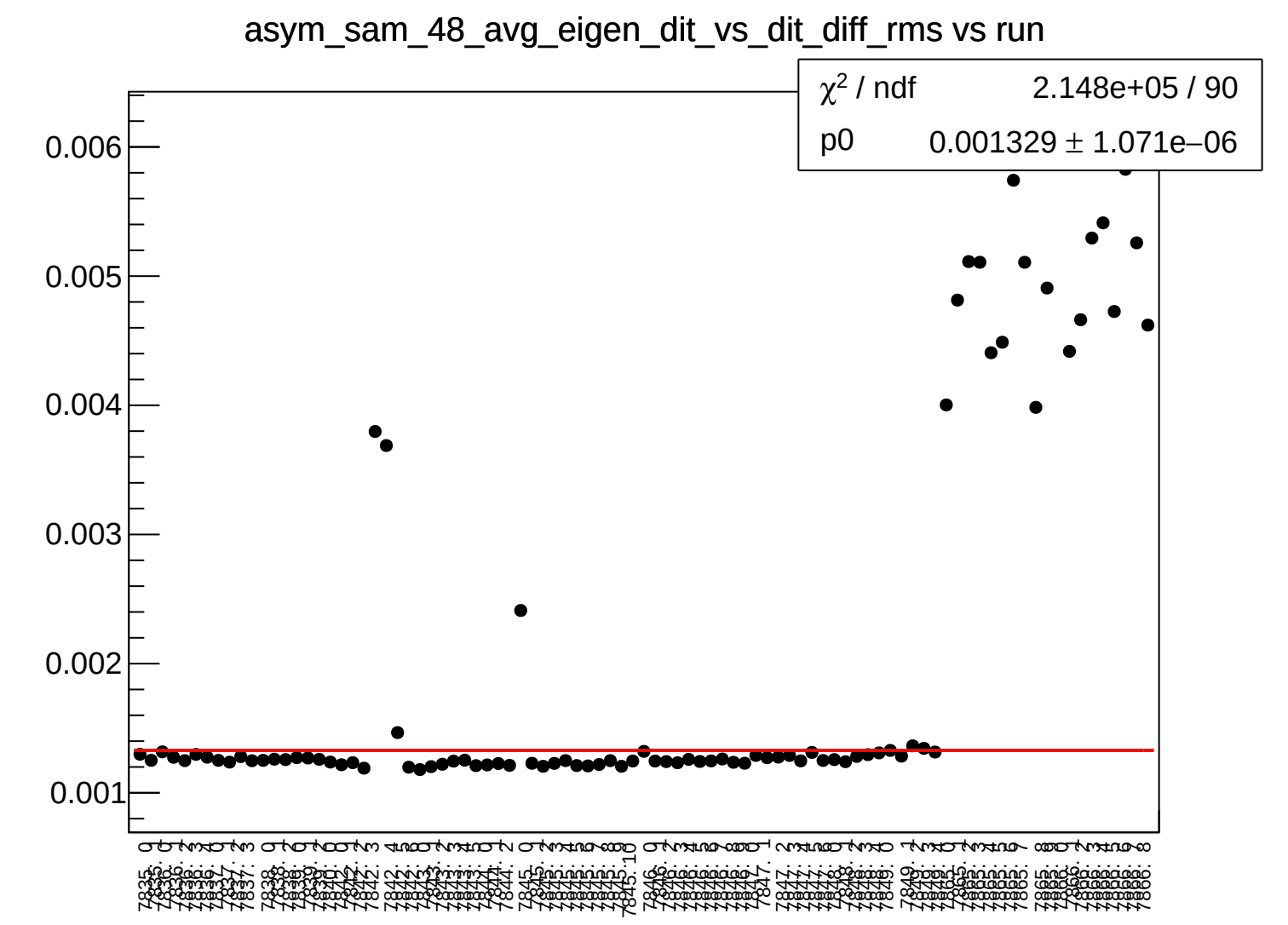

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.238e+04 / 90
p0 105.6 ± 0.0814
500
450
400
350
300
250
200
150
100
50

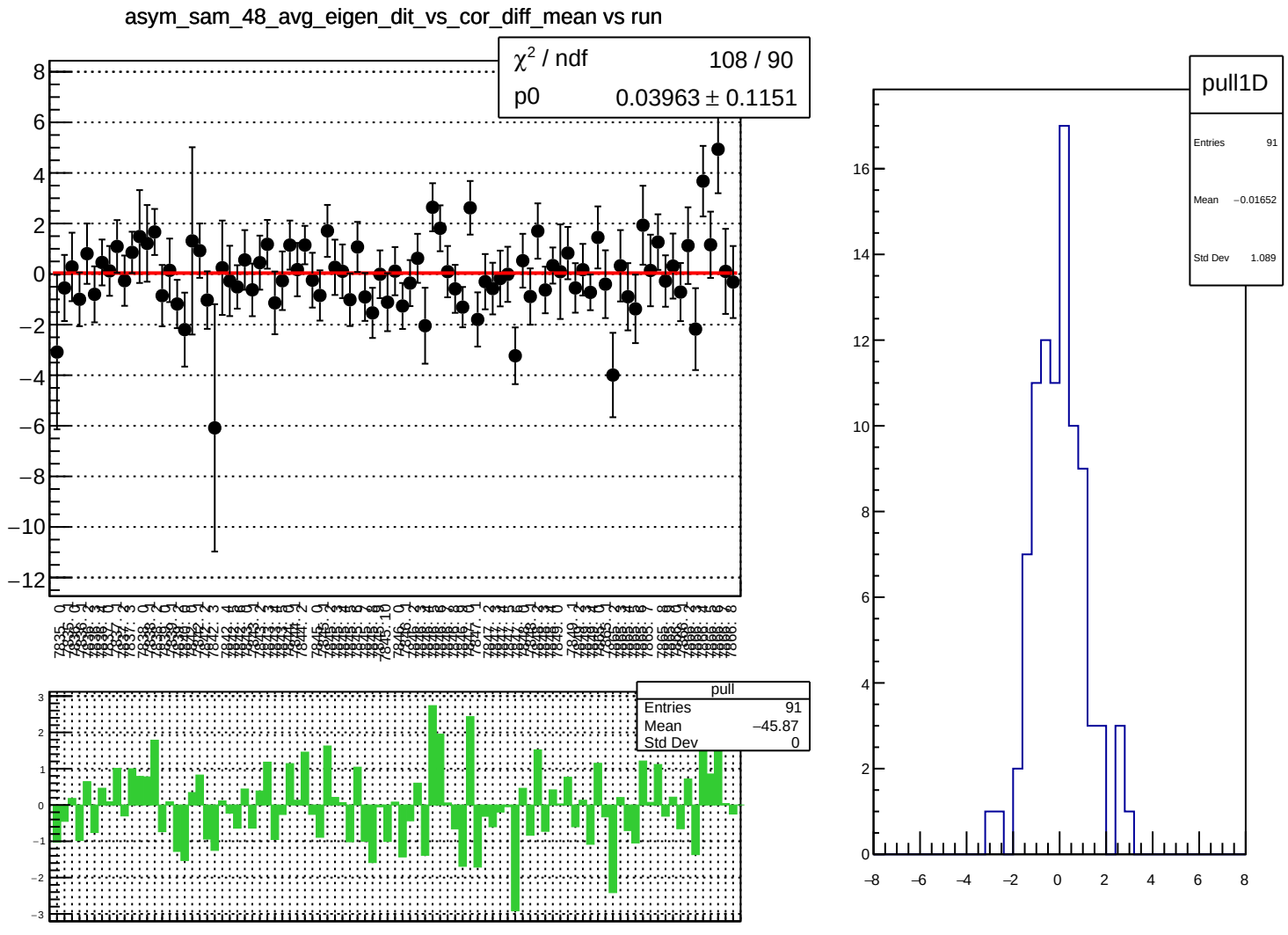

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.03963 ± 0.1151
pull
Entries 91
Mean −45.87
Std Dev 0
pull1D
Entries 91
Mean −0.01652
Std Dev 1.089

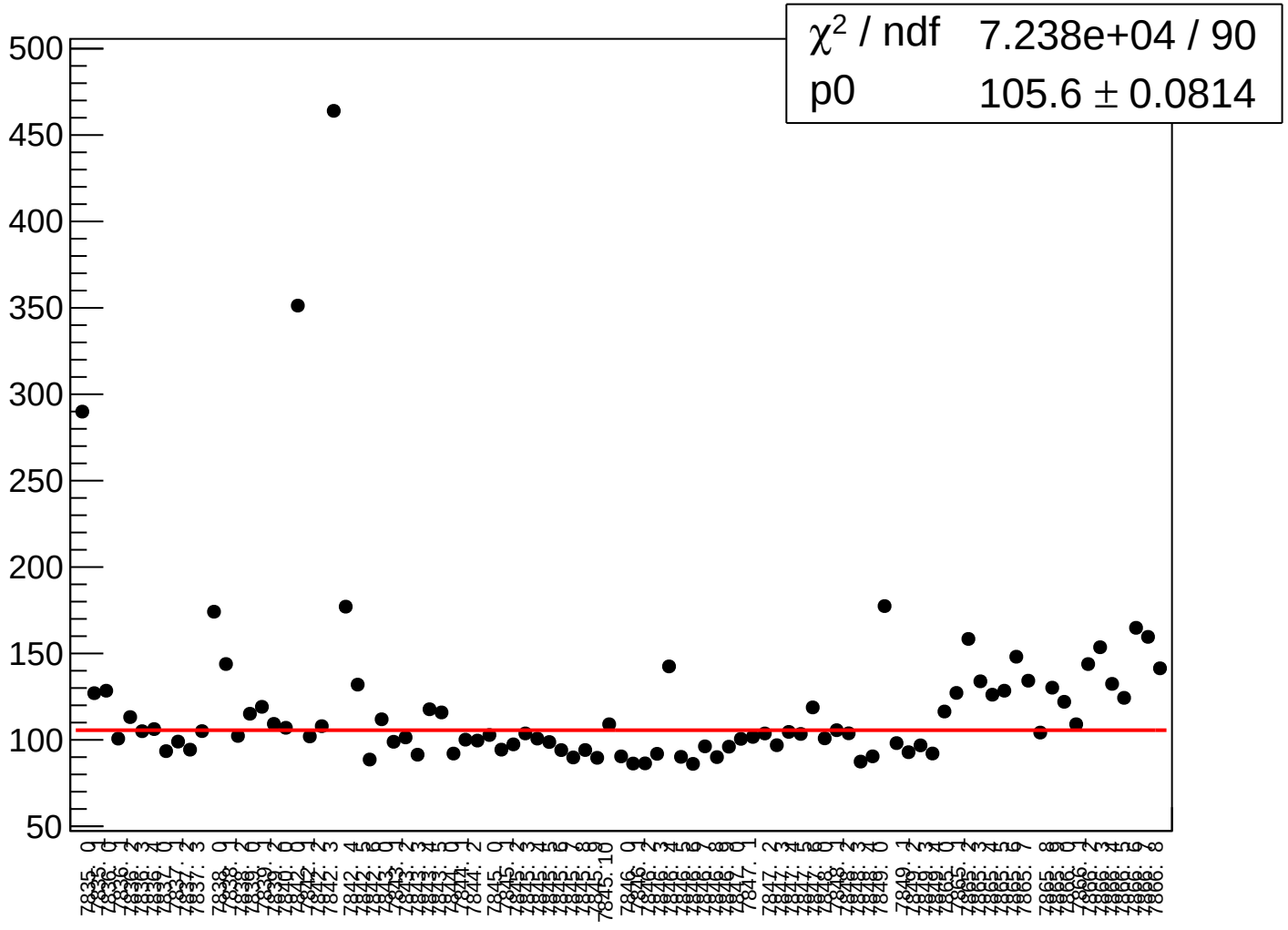

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.238e+04 / 90
p0 105.6 ± 0.0814
500
450
400
350
300
250
200
150
100
50

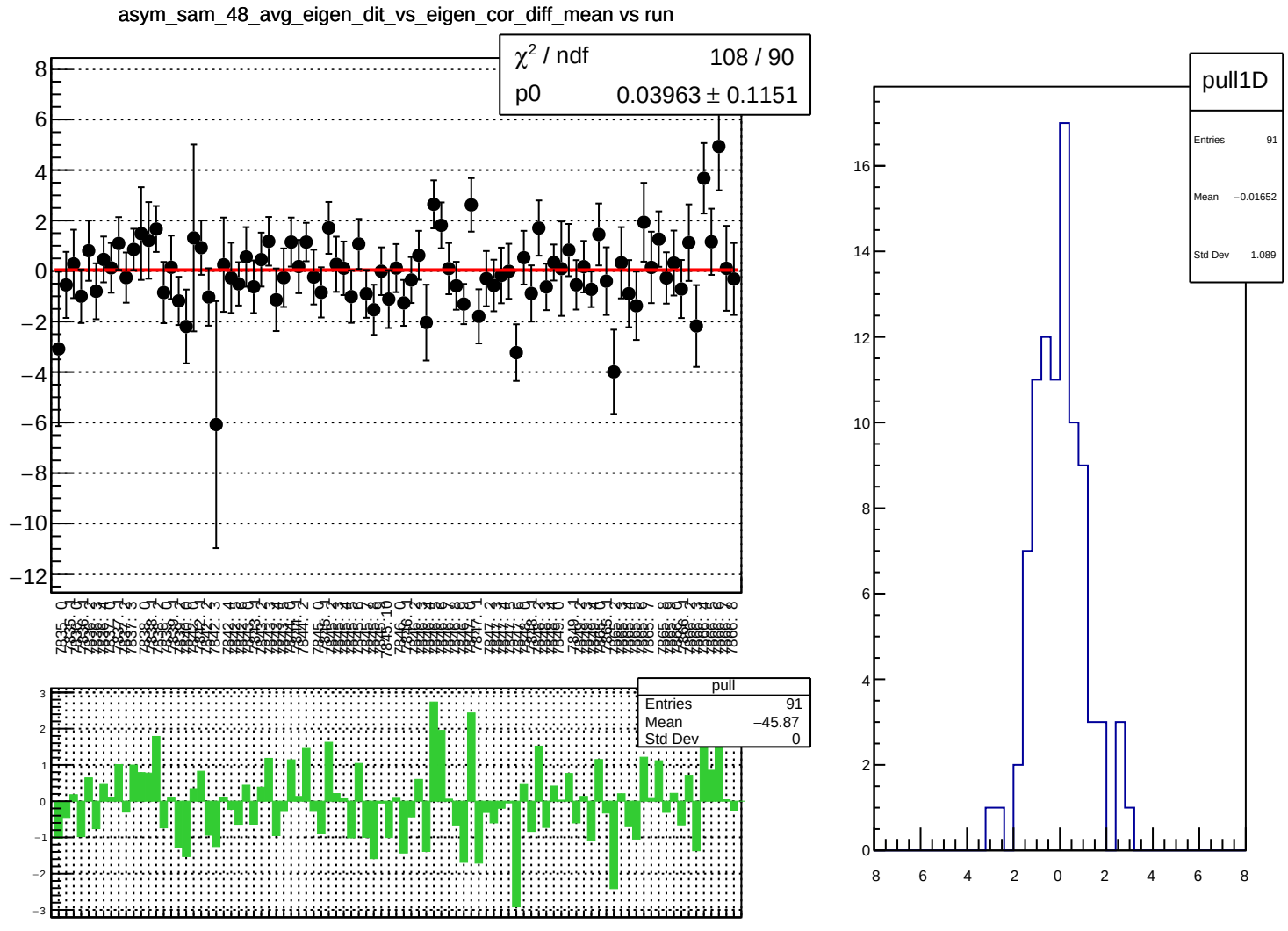

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 121.7 / 90
p0 −3.584e−06 ± 1.514e−06
pull
Entries 91
Mean 4.325
Std Dev 22.72

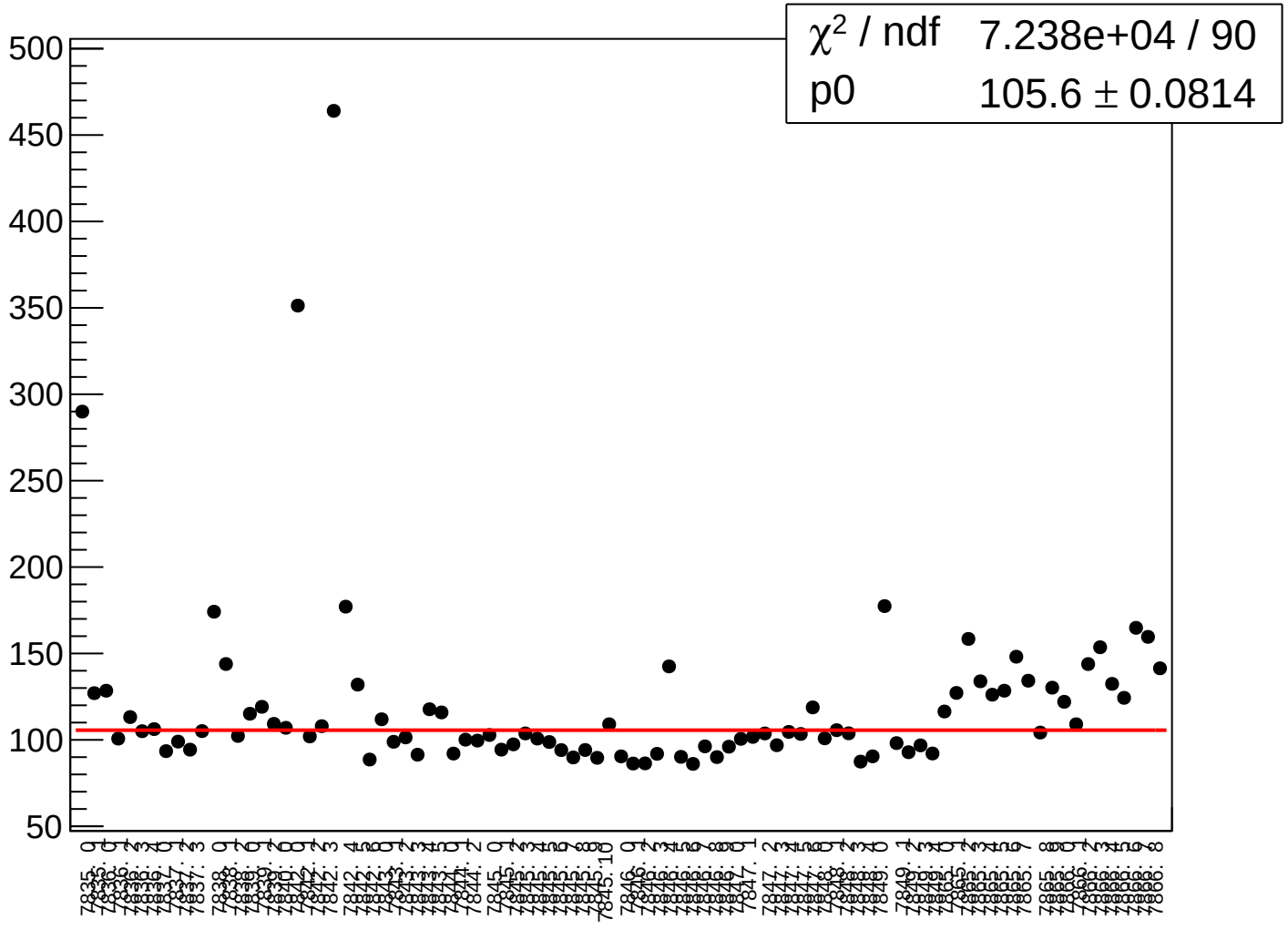

pull1D
Entries 91
Mean 0.04899
Std Dev 1.155

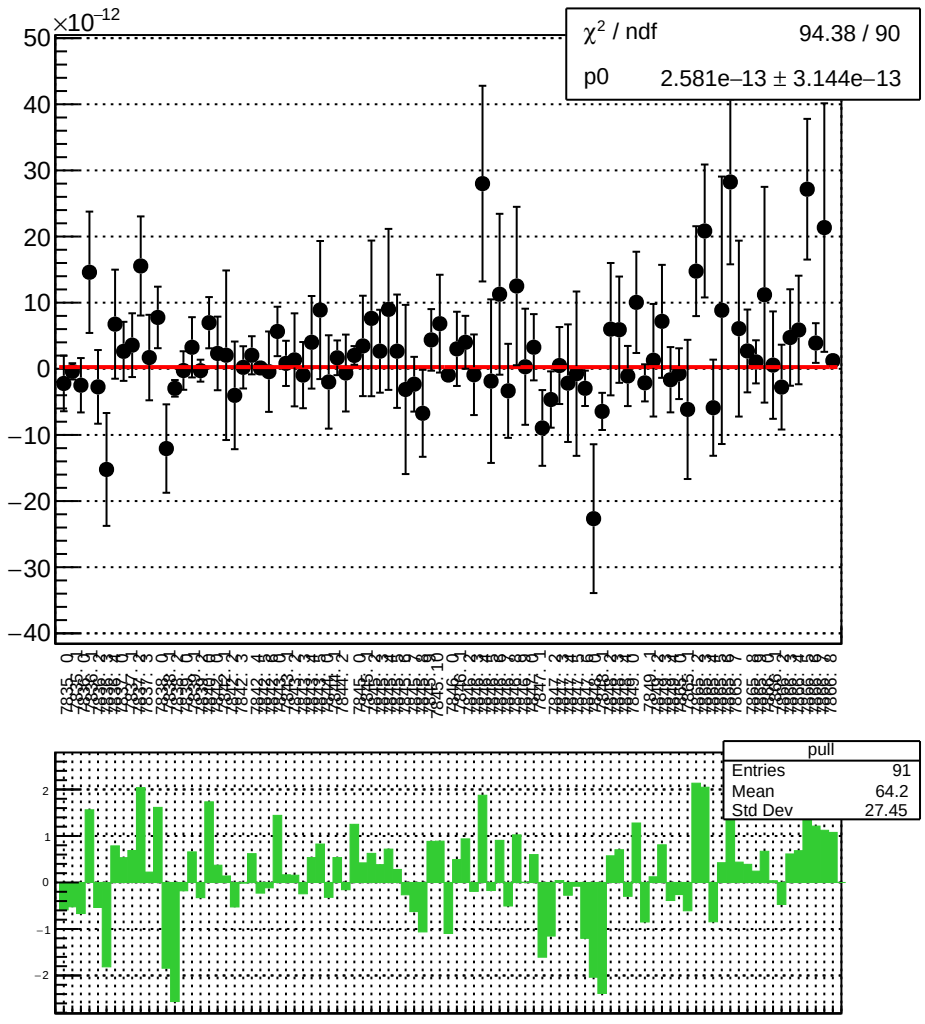

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.148e+05 / 90
p0 0.001329 ± 1.071e−06
0.006
0.005
0.004
0.003
0.002
0.001

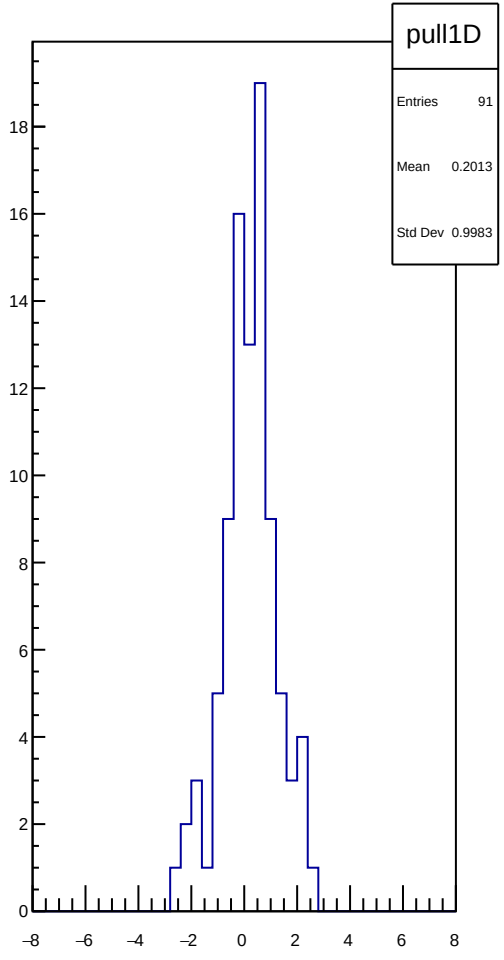

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.03963 ± 0.1151
pull
Entries 91
Mean −45.87
Std Dev 0
pull1D
Entries 91
Mean −0.01652
Std Dev 1.089

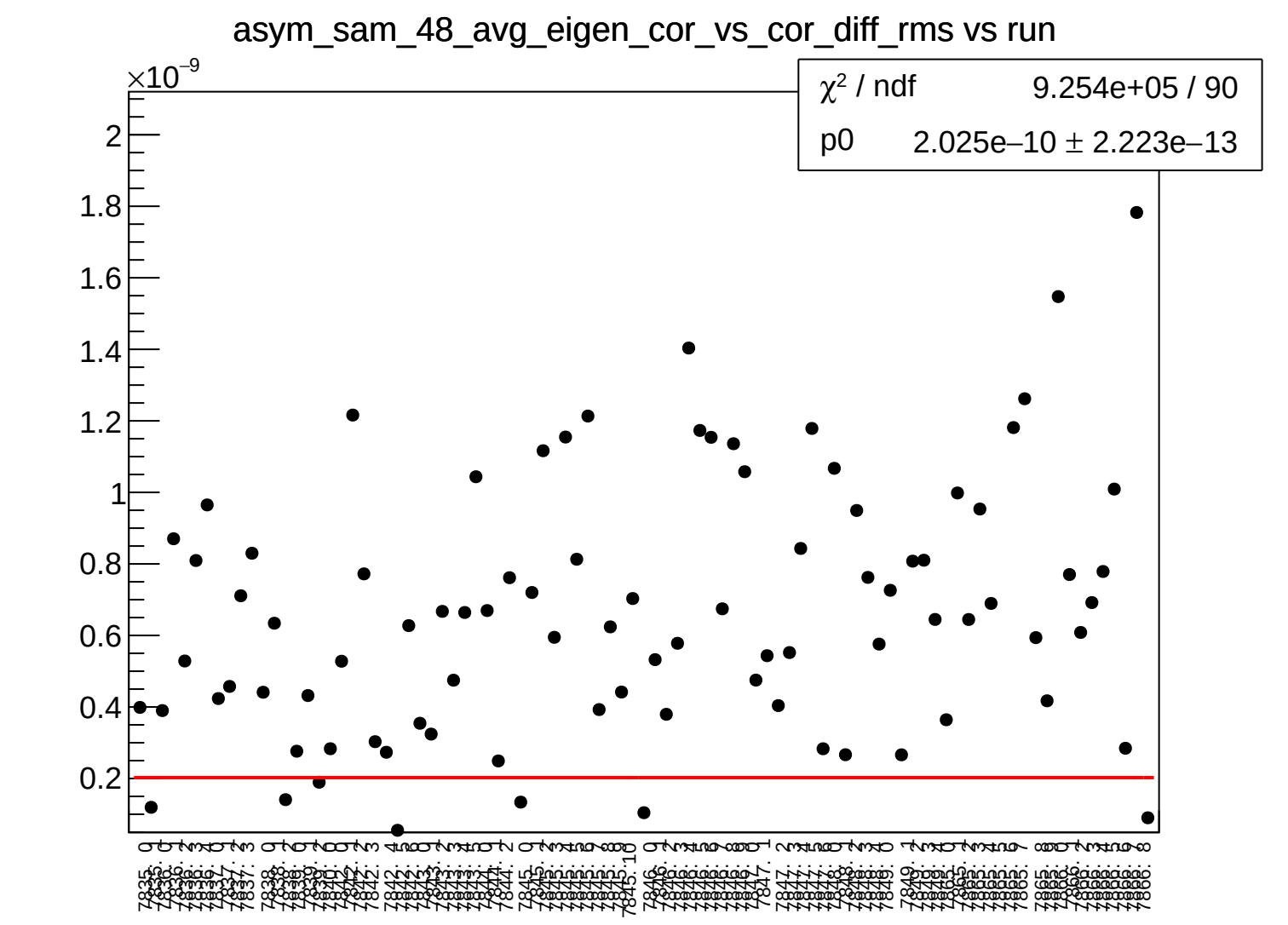

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.238e+04 / 90
p0 105.6 ± 0.0814
500
450
400
350
300
250
200
150
100
50

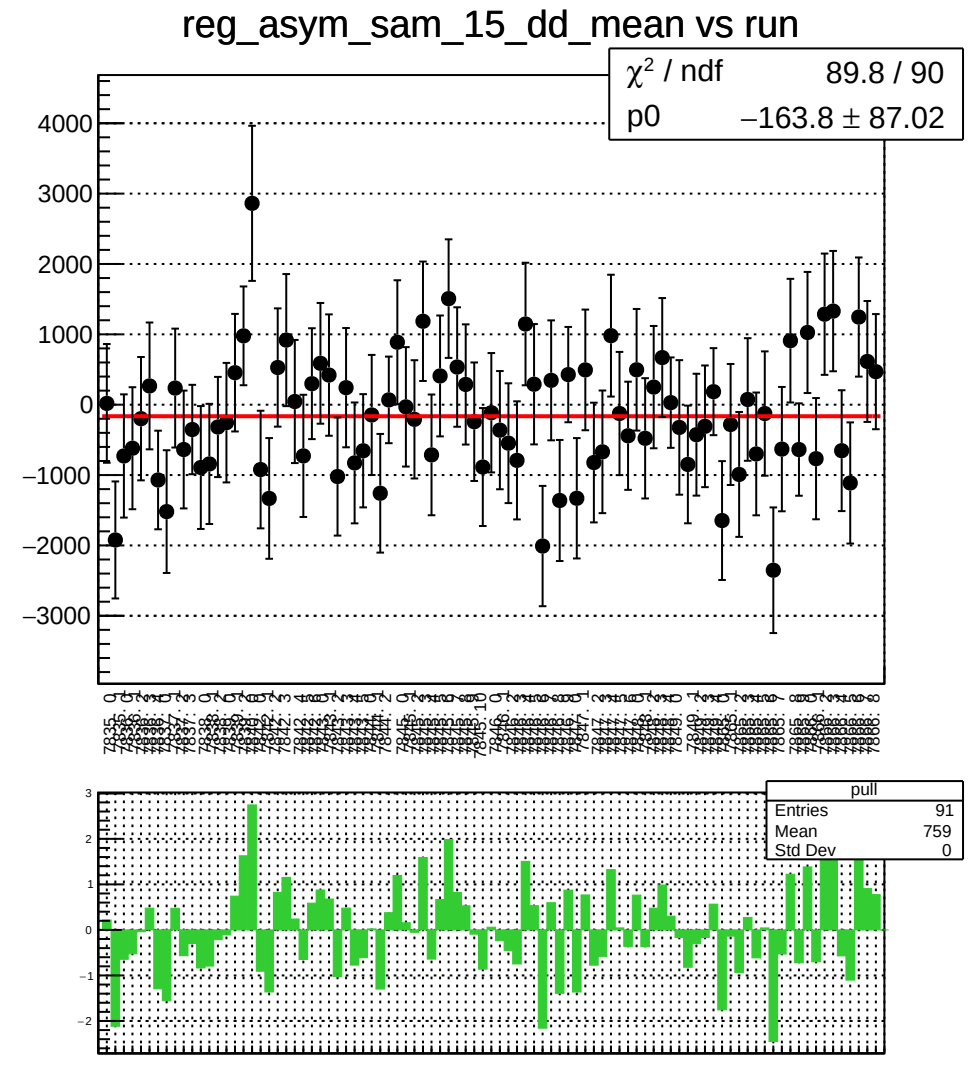

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.03963 ± 0.1151
pull
Entries 91
Mean −45.87
Std Dev 0
pull1D
Entries 91
Mean −0.01652
Std Dev 1.089

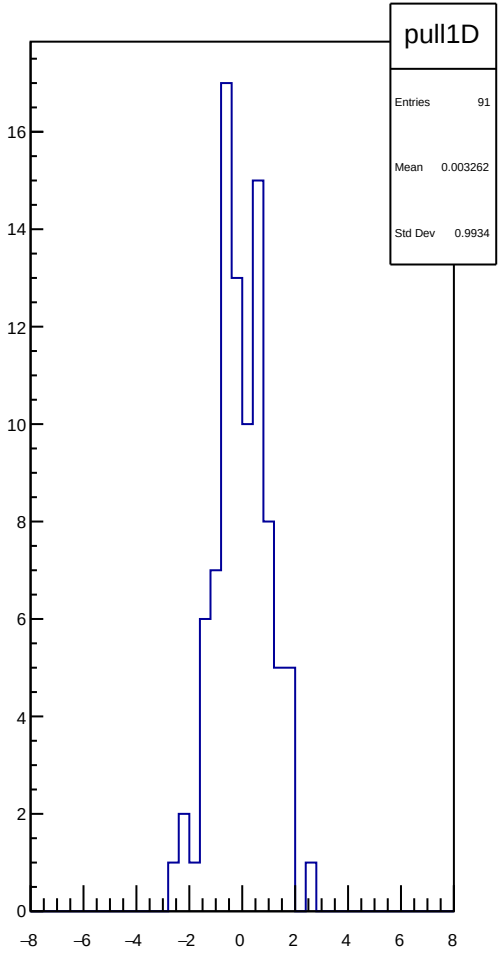

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.238e+04 / 90
p0 105.6 ± 0.0814
500
450
400
350
300
250
200
150
100
50

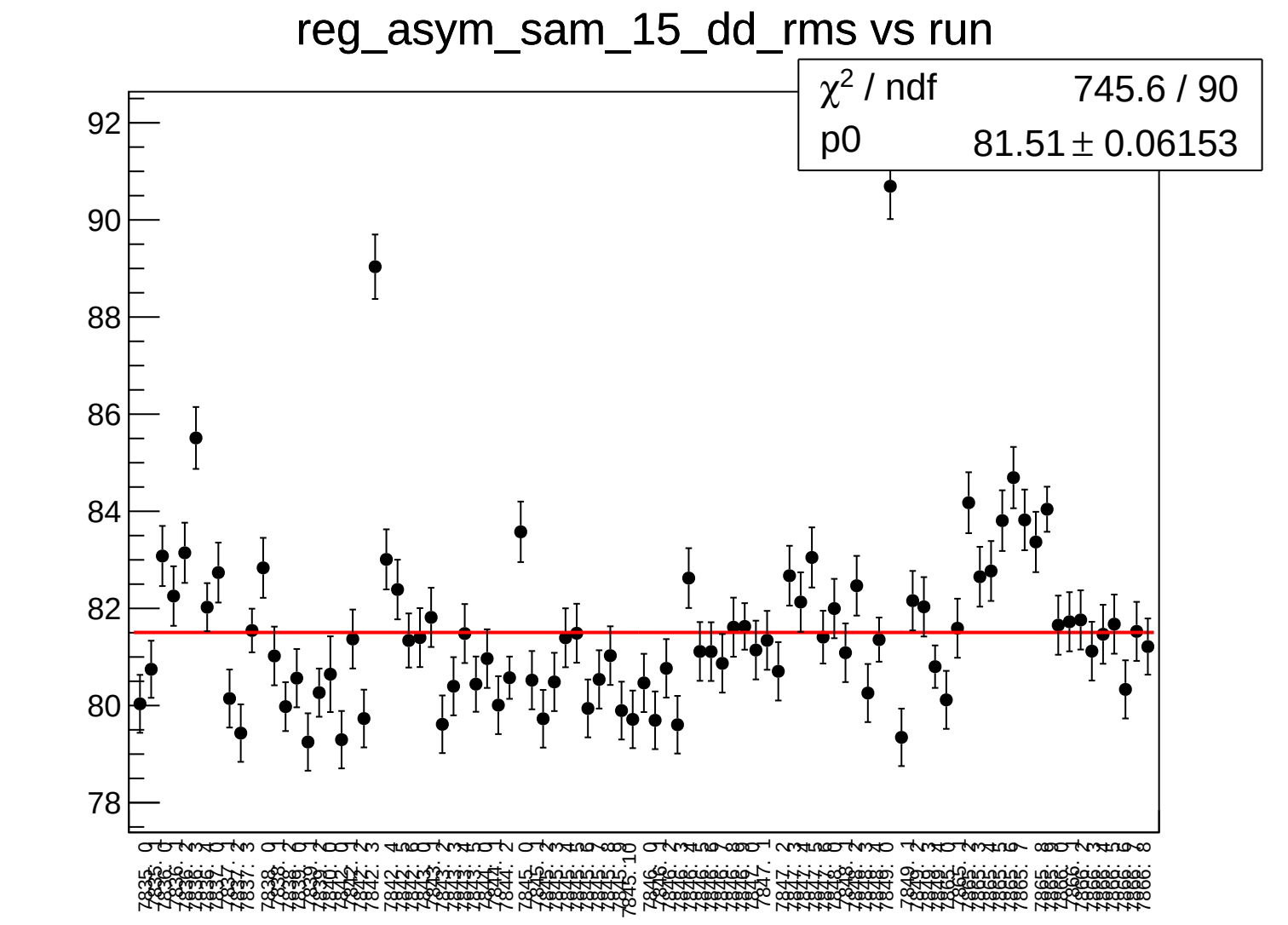

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.38 / 90
p0 2.581e−13 ± 3.144e−13
pull
Entries 91
Mean 64.2
Std Dev 27.45

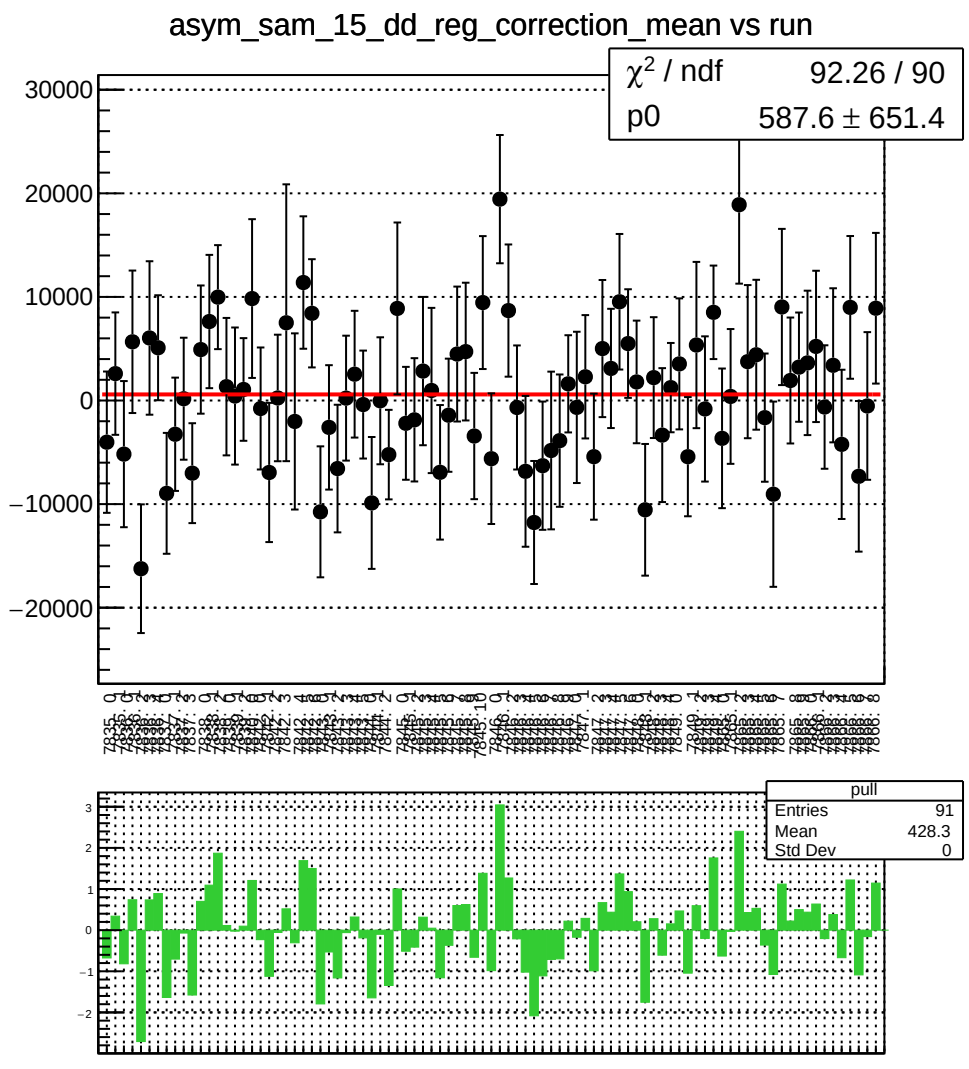

pull1D
Entries 91
Mean 0.2013
Std Dev 0.9983

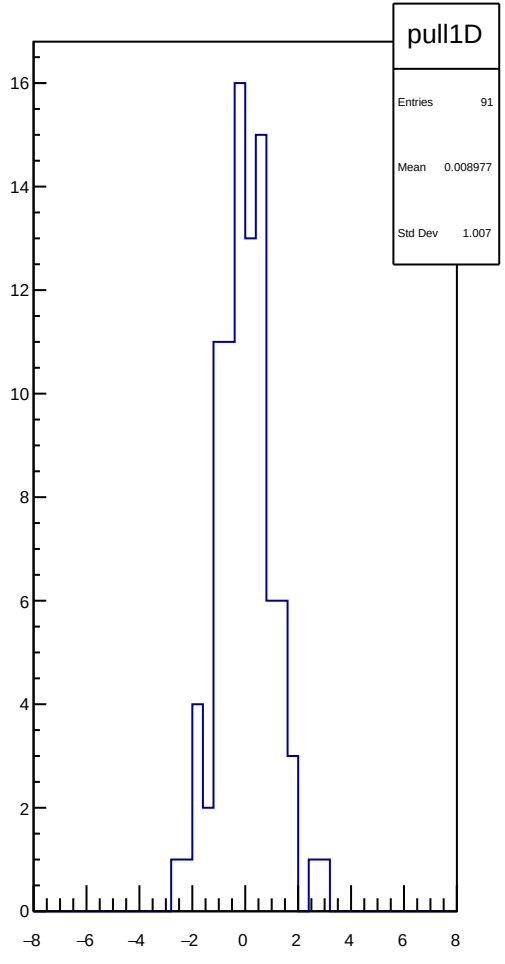

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.254e+05 / 90
p0 2.025e−10 ± 2.223e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

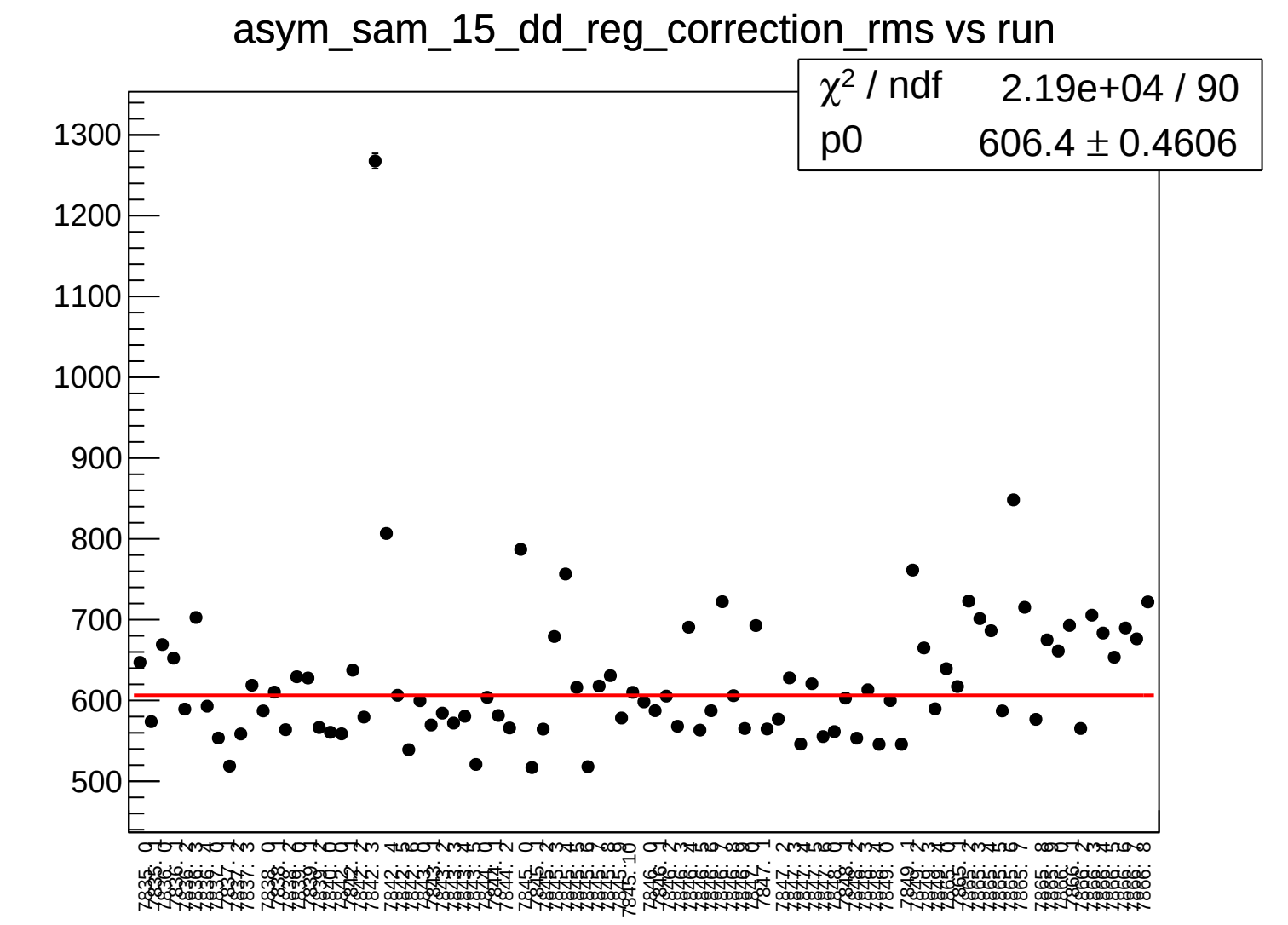

reg_asym_sam_15_dd_mean vs run
χ² / ndf 89.8 / 90
p0 −163.8 ± 87.02
pull
Entries 91
Mean 759
Std Dev 0

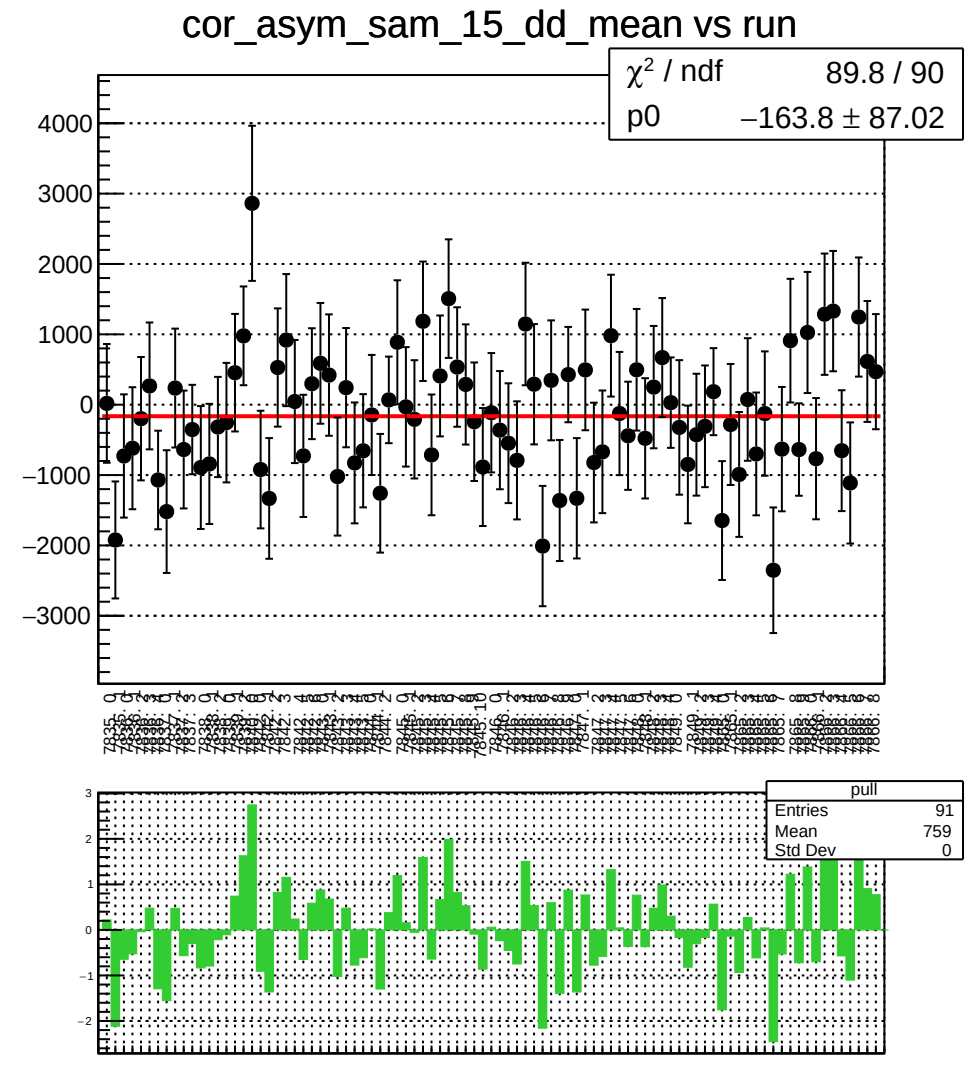

pull1D
Entries 91
Mean 0.003262
Std Dev 0.9934

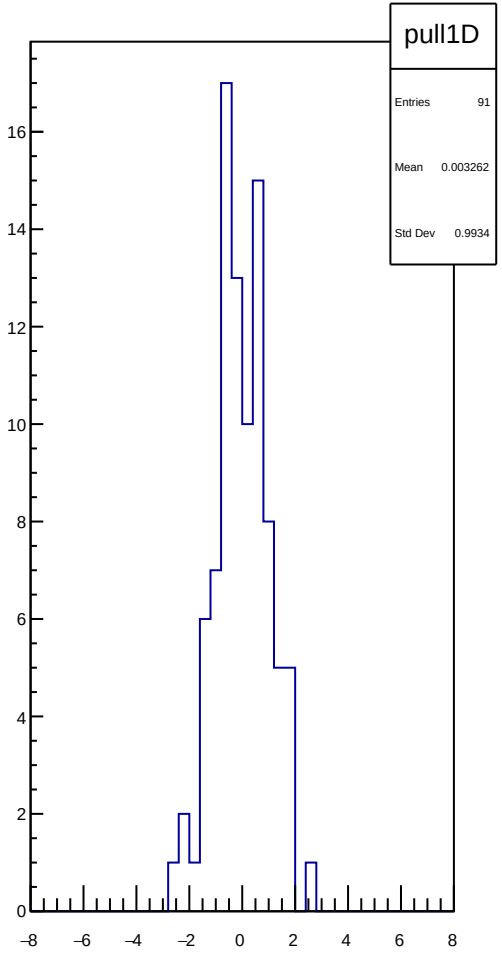

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 745.6 / 90
p0 81.51 ± 0.06153
92
90
88
86
84
82
80
78

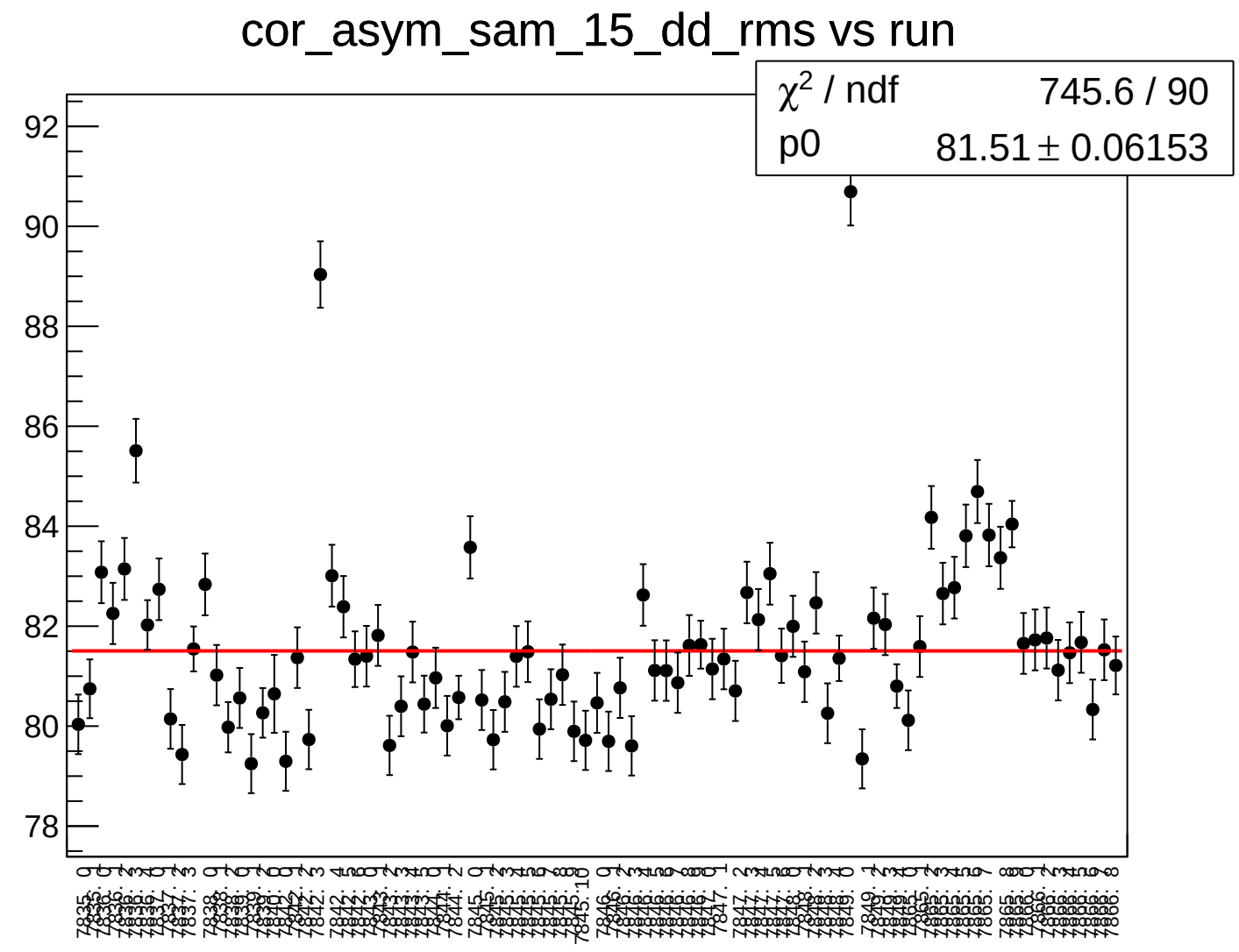

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 92.26 / 90
p0 587.6 ± 651.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 428.3
Std Dev 0
3
2
1
0
−1
−2

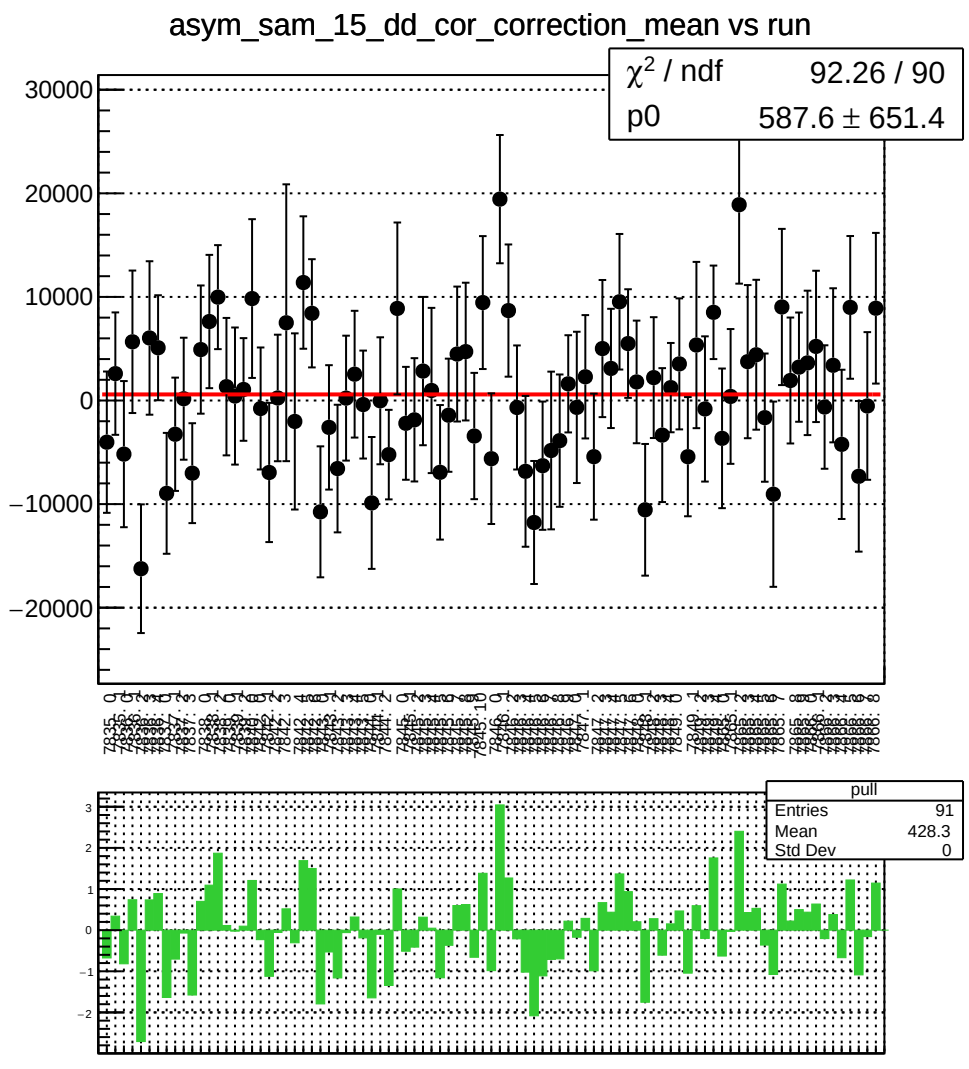

pull1D
Entries 91
Mean 0.008977
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

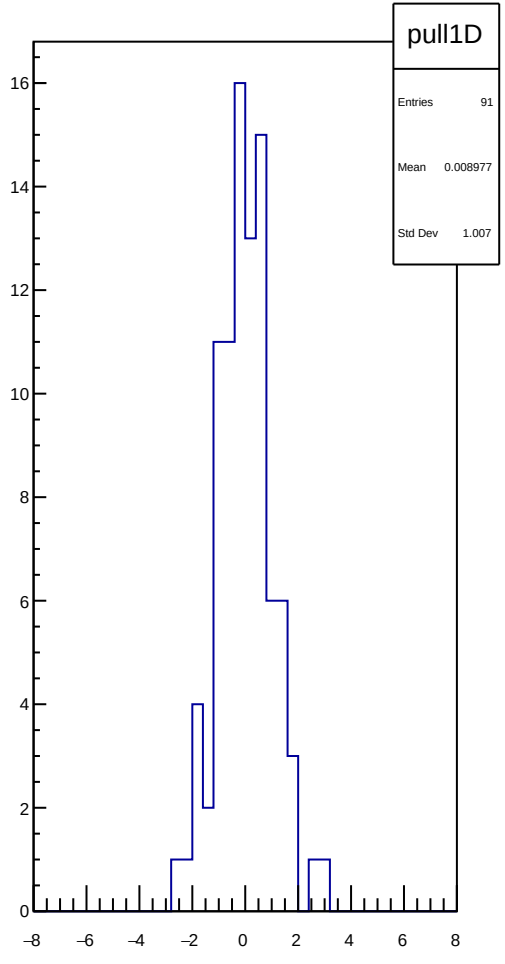

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.19e+04 / 90
p0 606.4 ± 0.4606
1300
1200
1100
1000
900
800
700
600
500

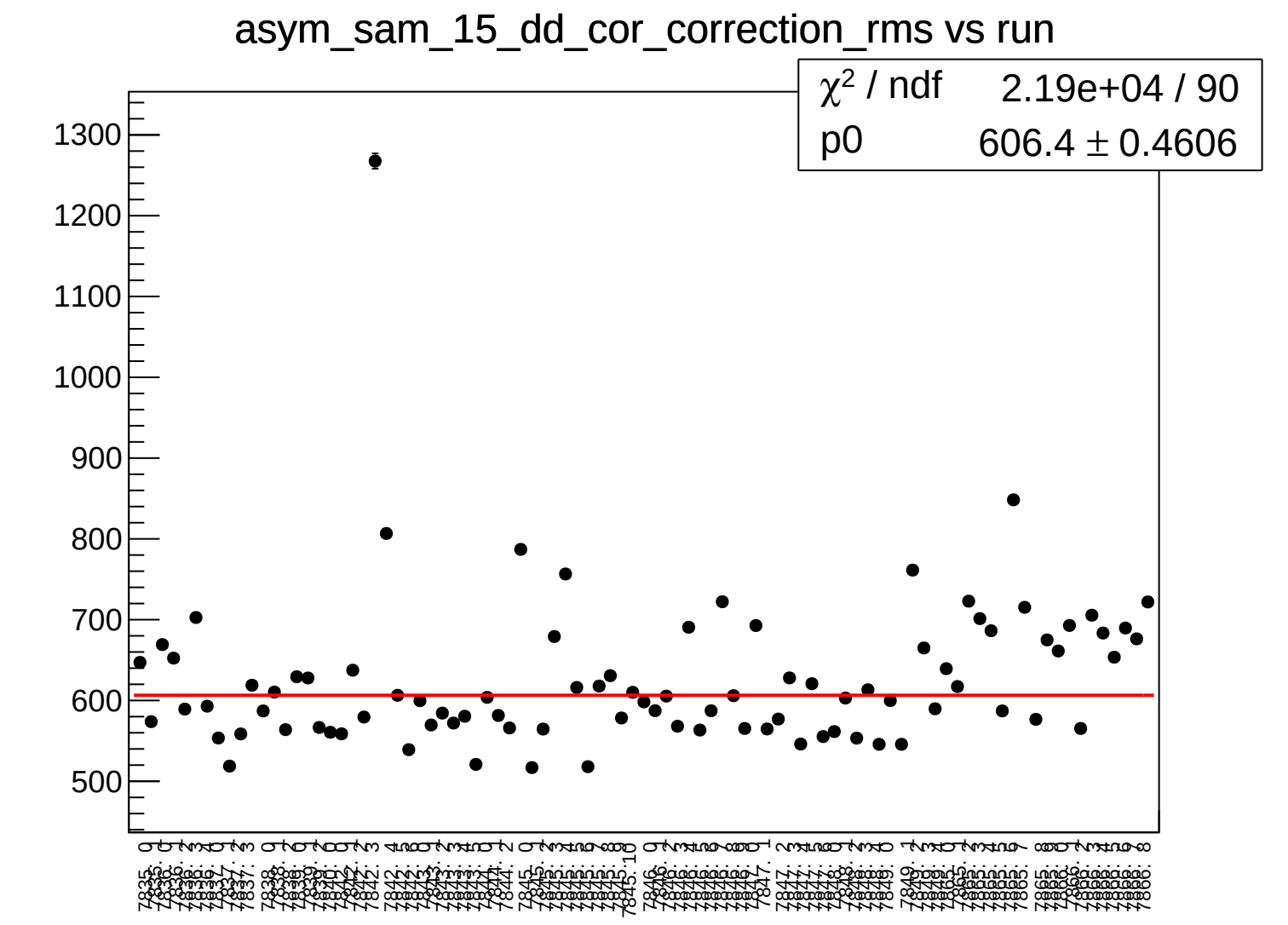

cor_asym_sam_15_dd_mean vs run
χ² / ndf 89.8 / 90
p0 −163.8 ± 87.02
pull
Entries 91
Mean 759
Std Dev 0

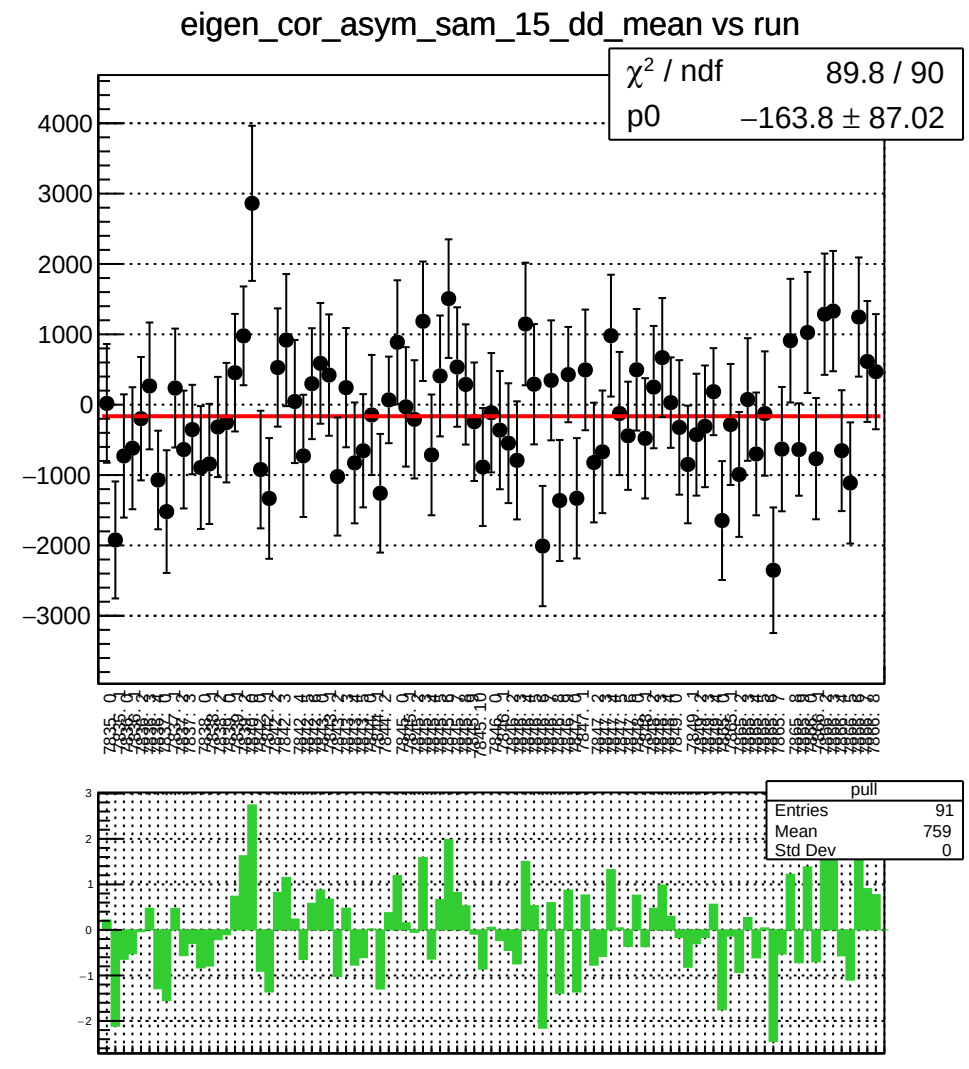

pull1D
Entries 91
Mean 0.003262
Std Dev 0.9934

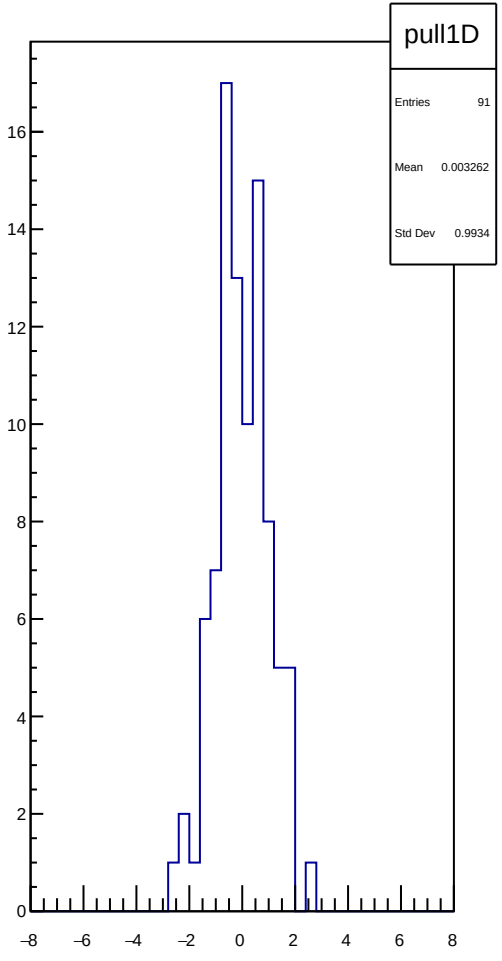

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 745.6 / 90
p0 81.51 ± 0.06153
92
90
88
86
84
82
80
78

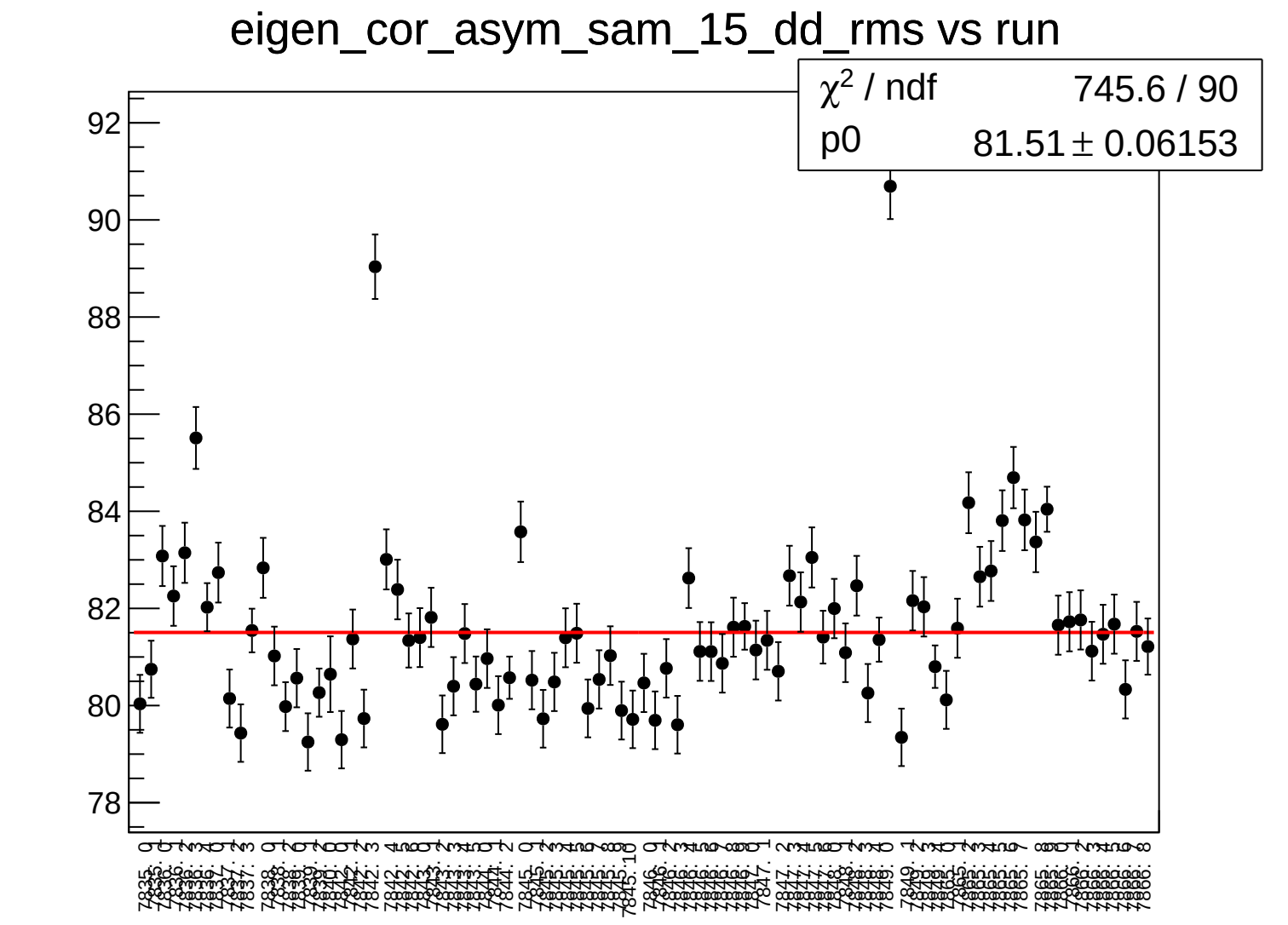

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 92.26 / 90
p0 587.6 ± 651.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 428.3
Std Dev 0
3
2
1
0
−1
−2

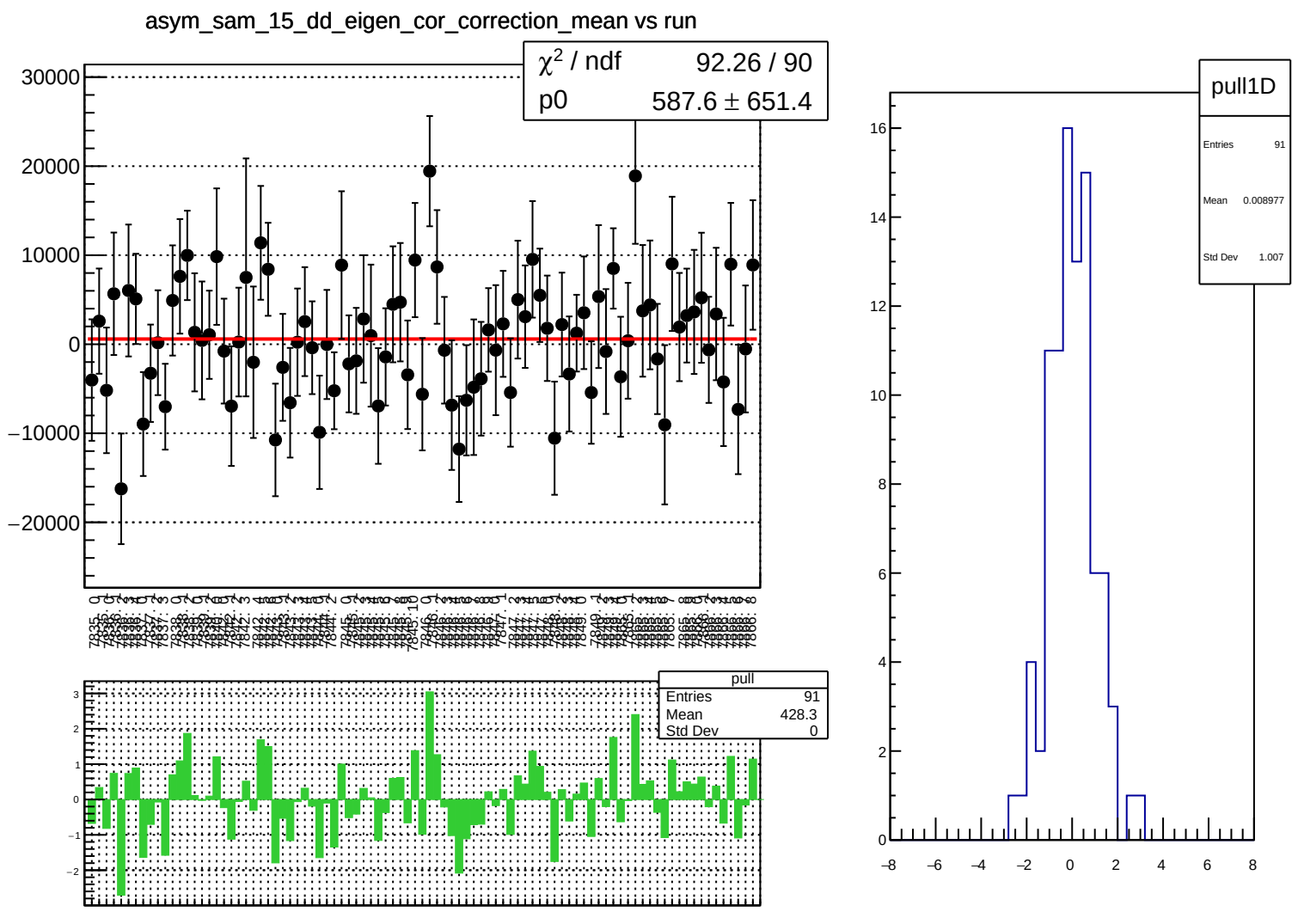

pull1D
Entries 91
Mean 0.008977
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

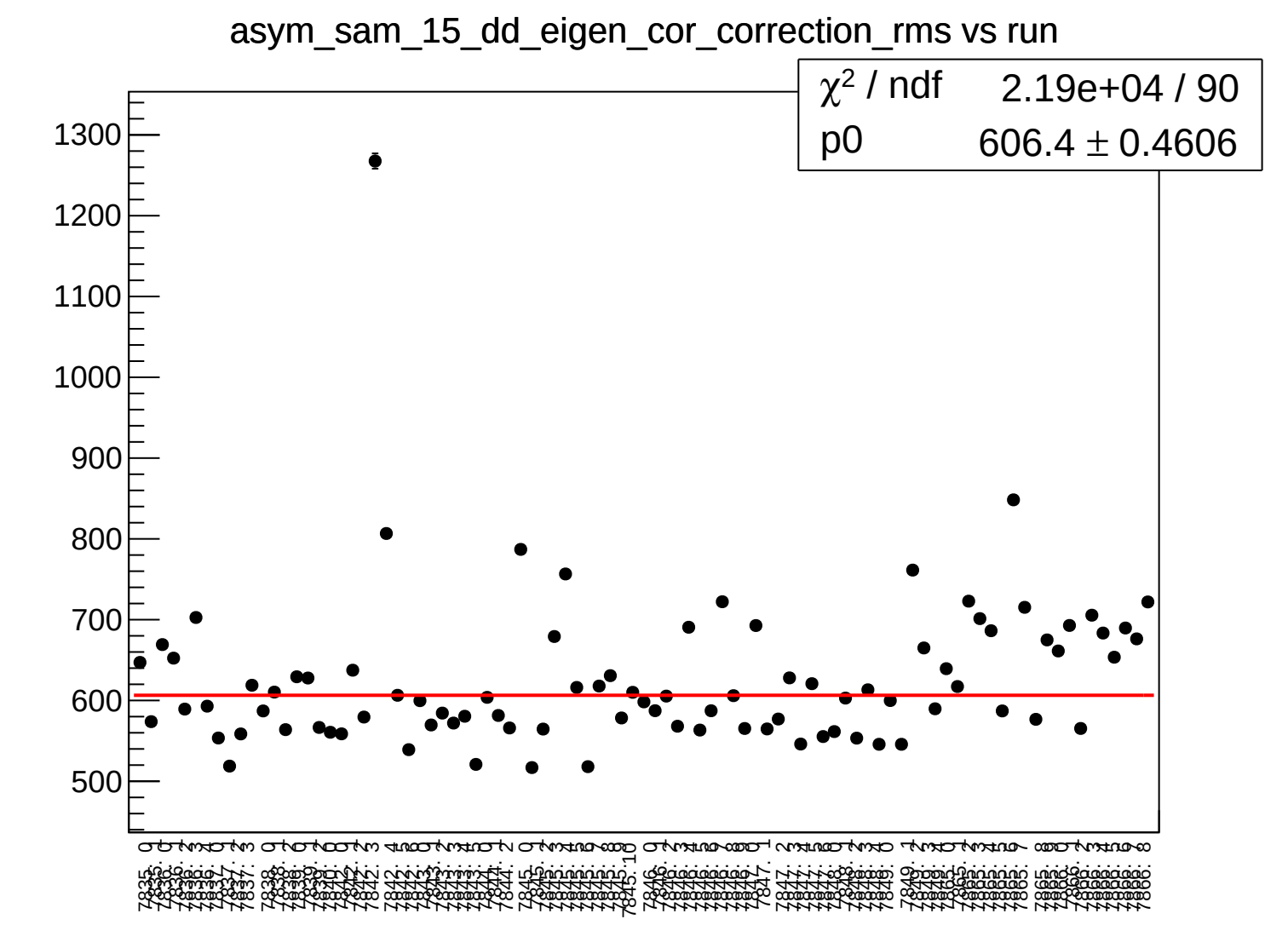

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.19e+04 / 90
p0 606.4 ± 0.4606
1300
1200
1100
1000
900
800
700
600
500

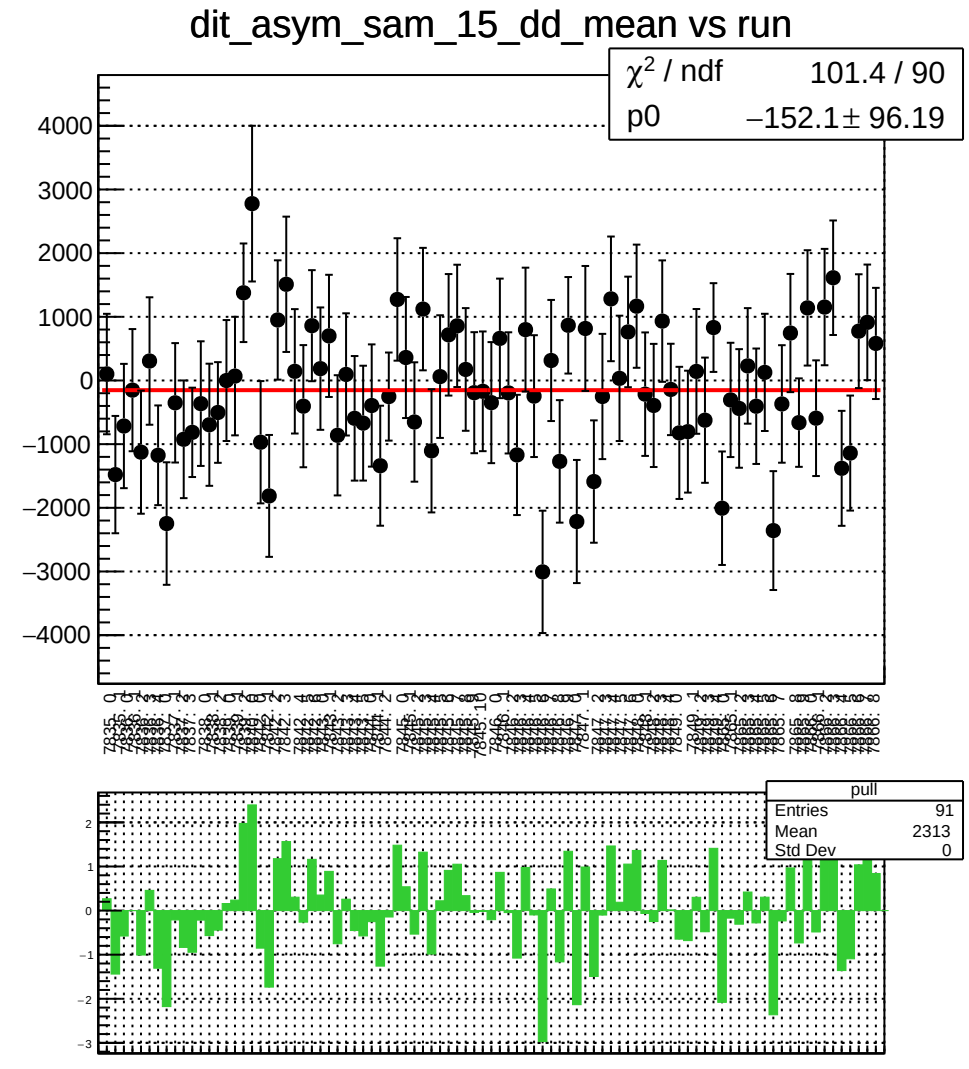

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 89.8 / 90
p0 −163.8 ± 87.02
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 759
Std Dev 0
3
2
1
0
−1
−2

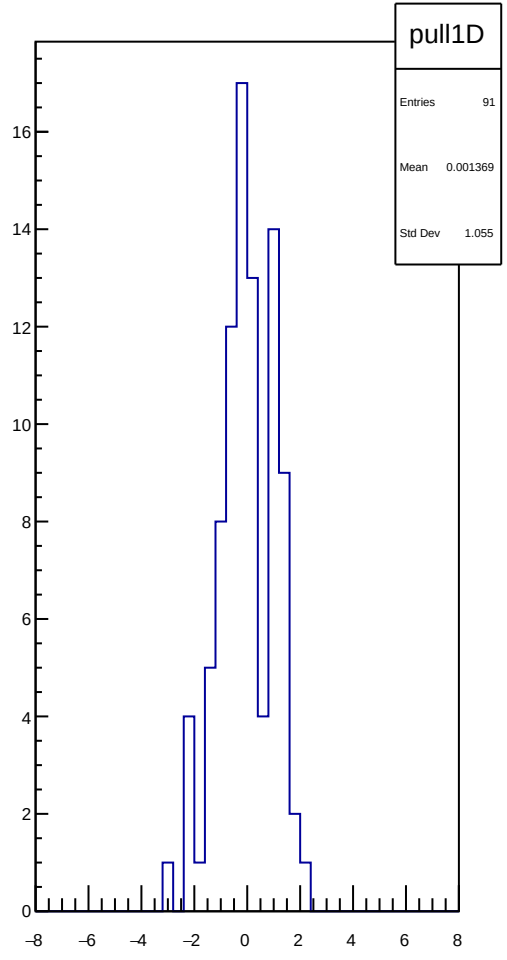

pull1D
Entries 91
Mean 0.003262
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

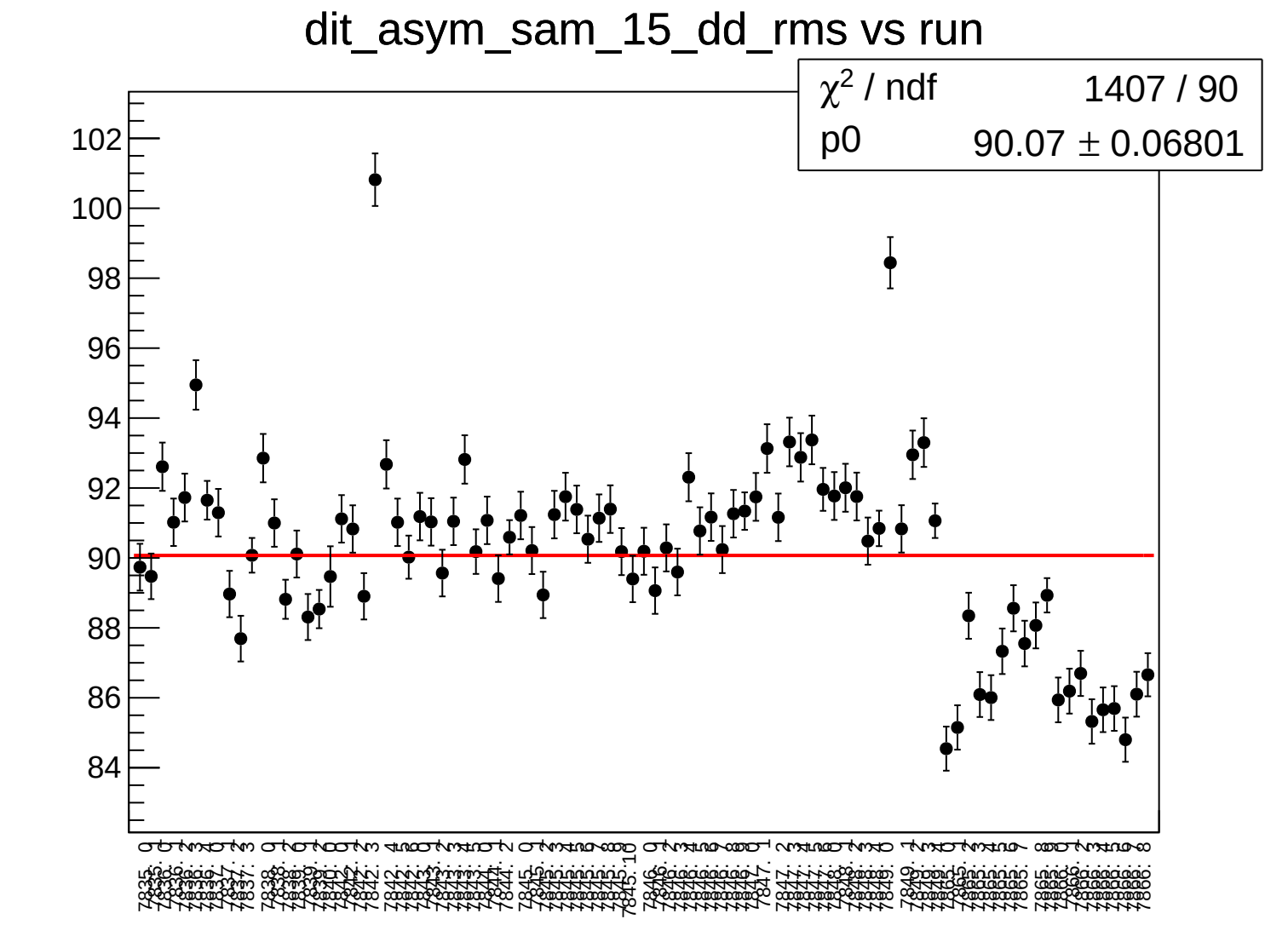

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 745.6 / 90
p0 81.51 ± 0.06153
92
90
88
86
84
82
80
78

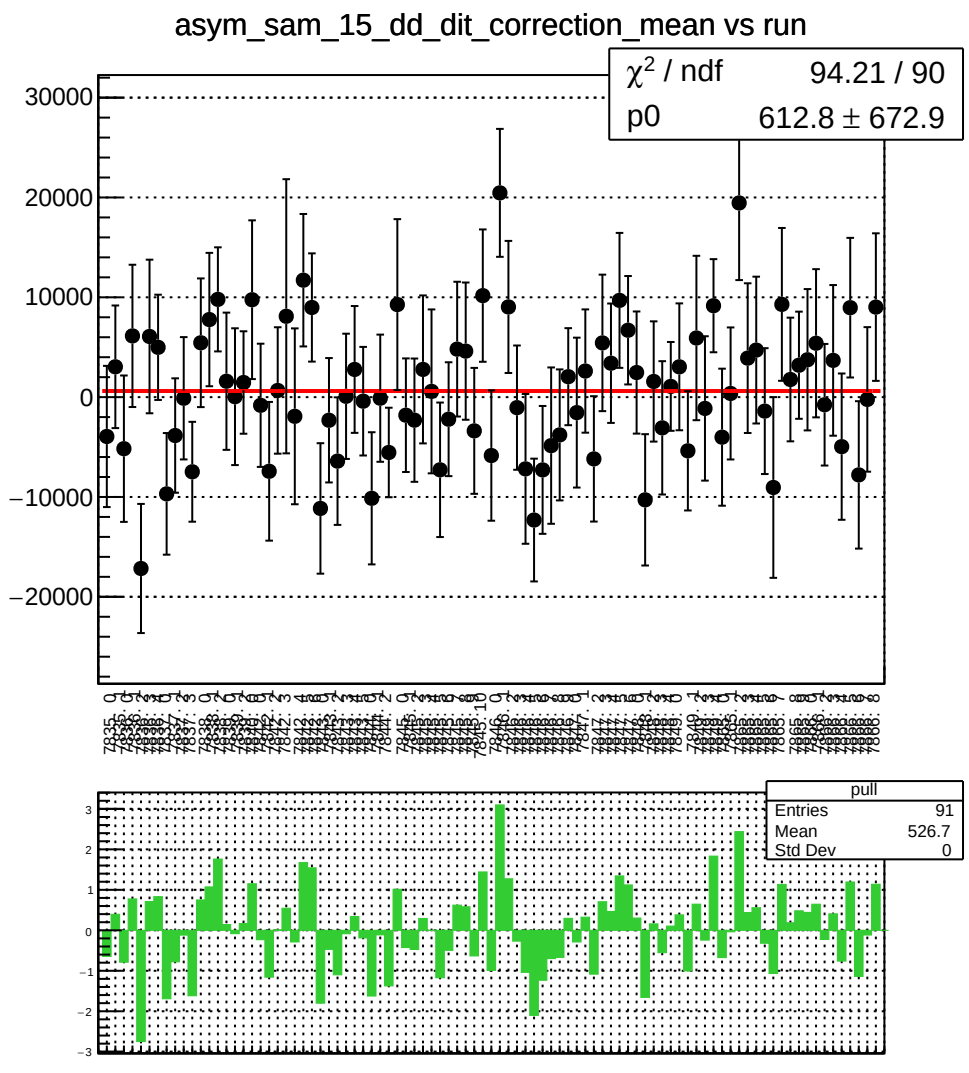

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.26 / 90
p0 587.6 ± 651.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 428.3
Std Dev 0
pull1D
Entries 91
Mean 0.008977
Std Dev 1.007

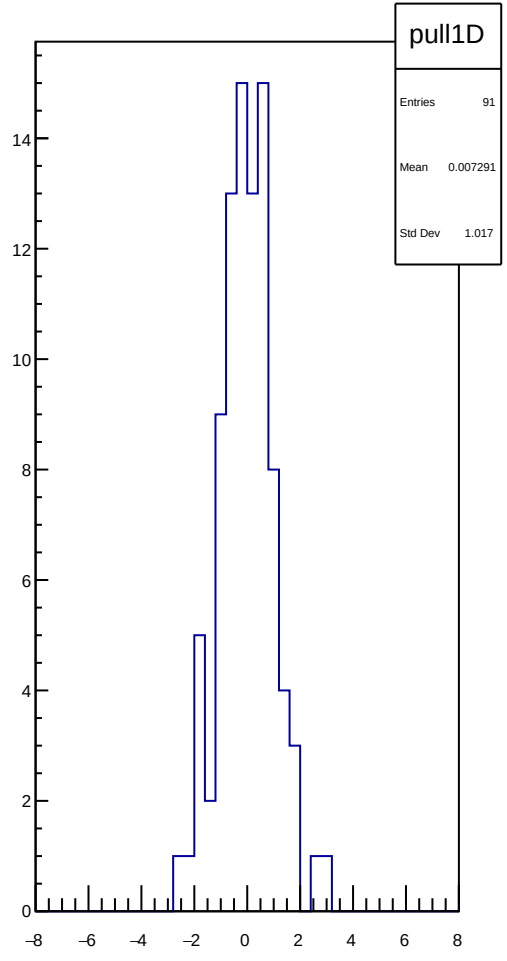

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.19e+04 / 90
p0 606.4 ± 0.4606
1300
1200
1100
1000
900
800
700
600
500

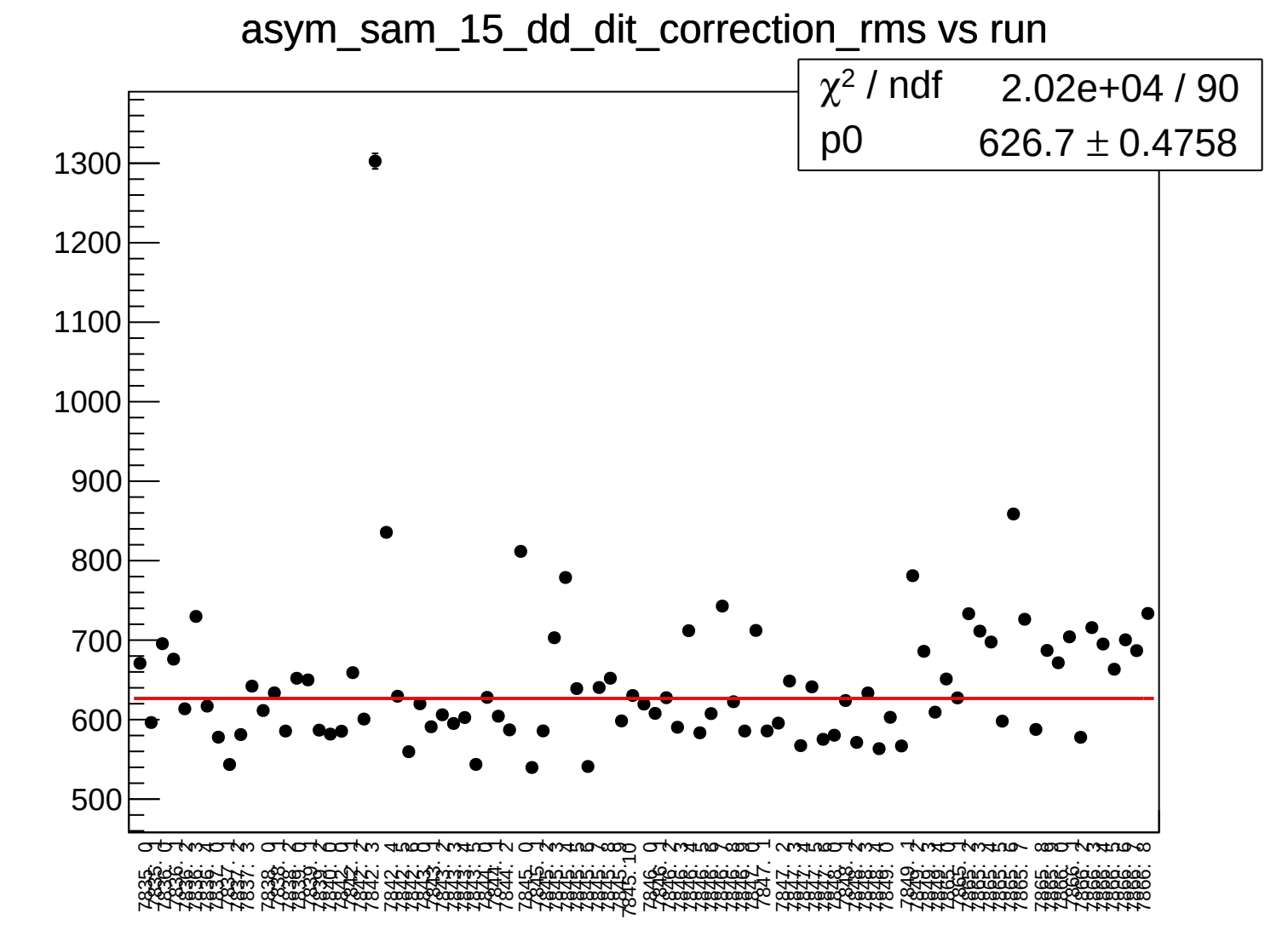

dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 101.4 / 90
p0 −152.1± 96.19
pull
Entries 91
Mean 2313
Std Dev 0

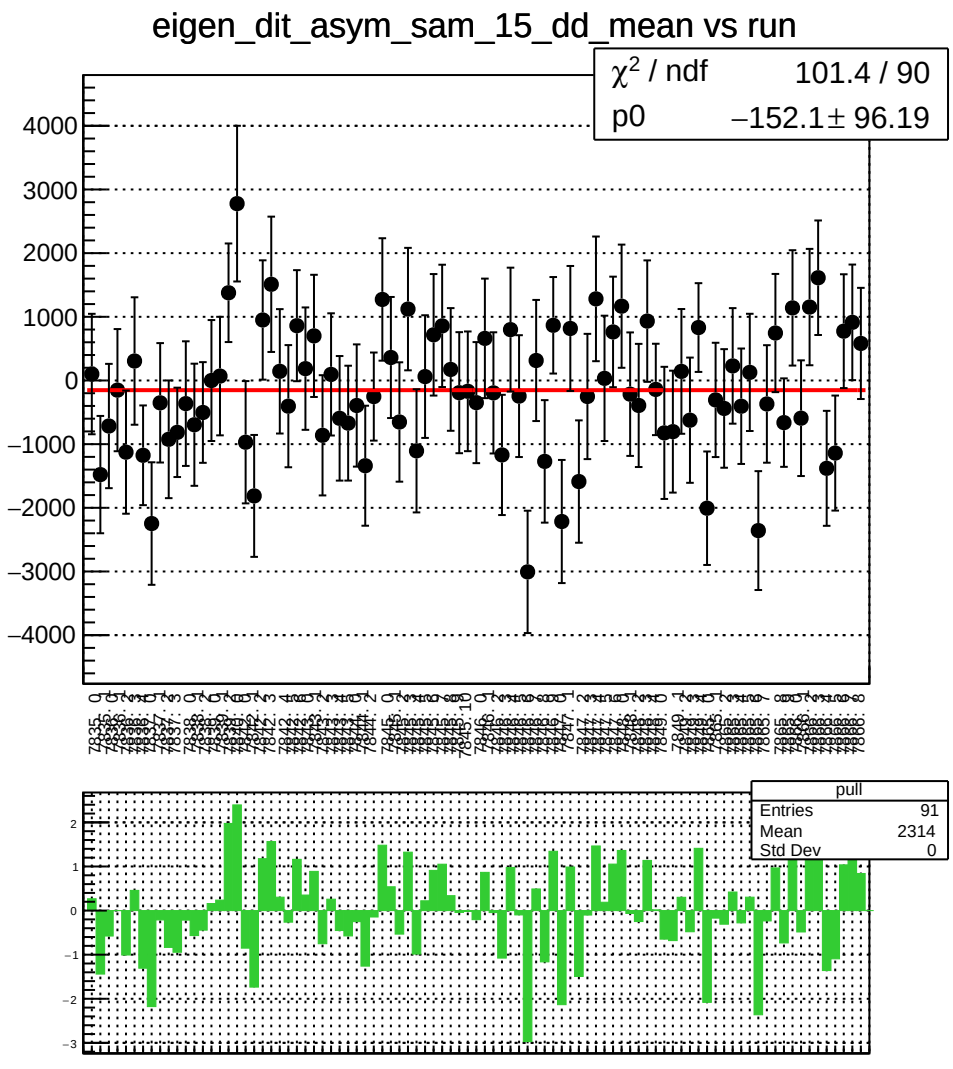

pull1D
Entries 91
Mean 0.001369
Std Dev 1.055

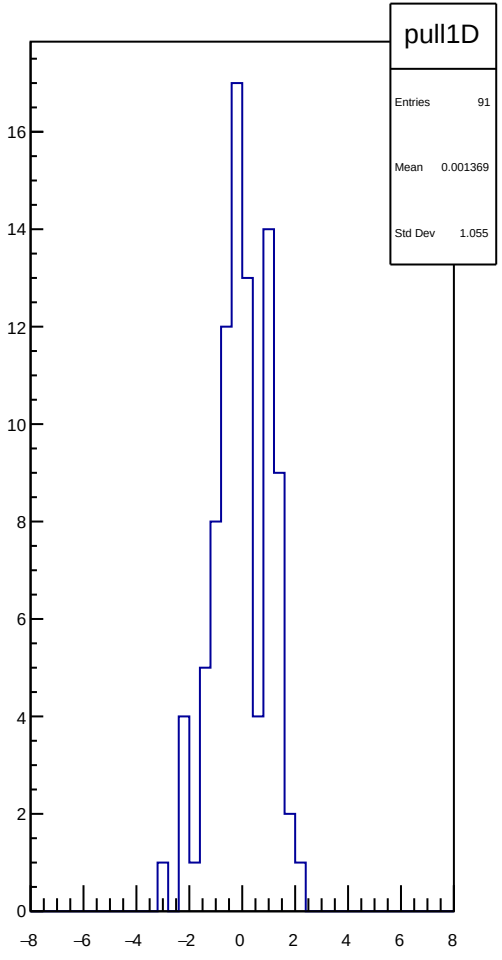

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1407 / 90
p0 90.07 ± 0.06801
102
100
98
96
94
92
90
88
86
84

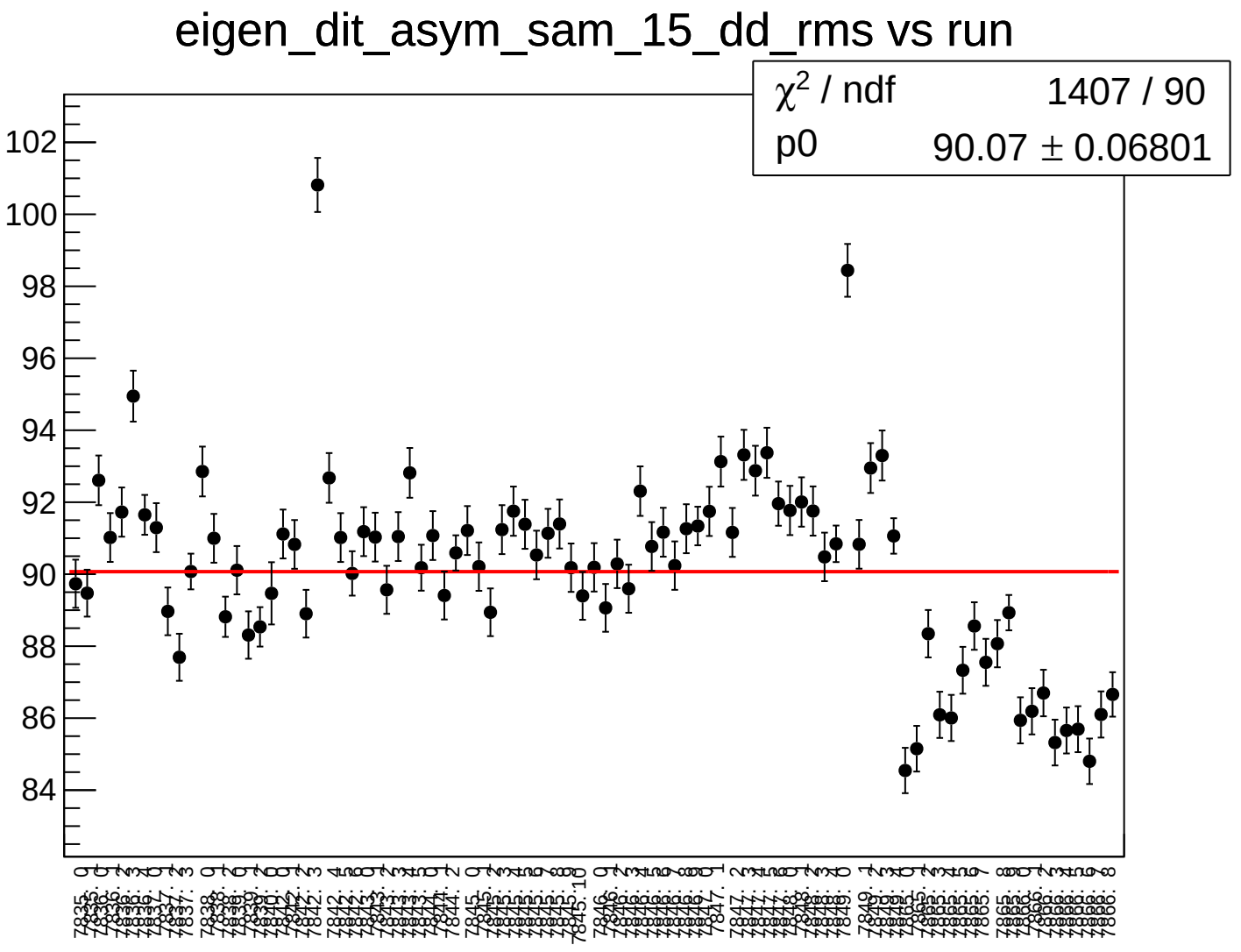

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 94.21 / 90
p0 612.8 ± 672.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 526.7
Std Dev 0
3
2
1
0
−1
−2
−3

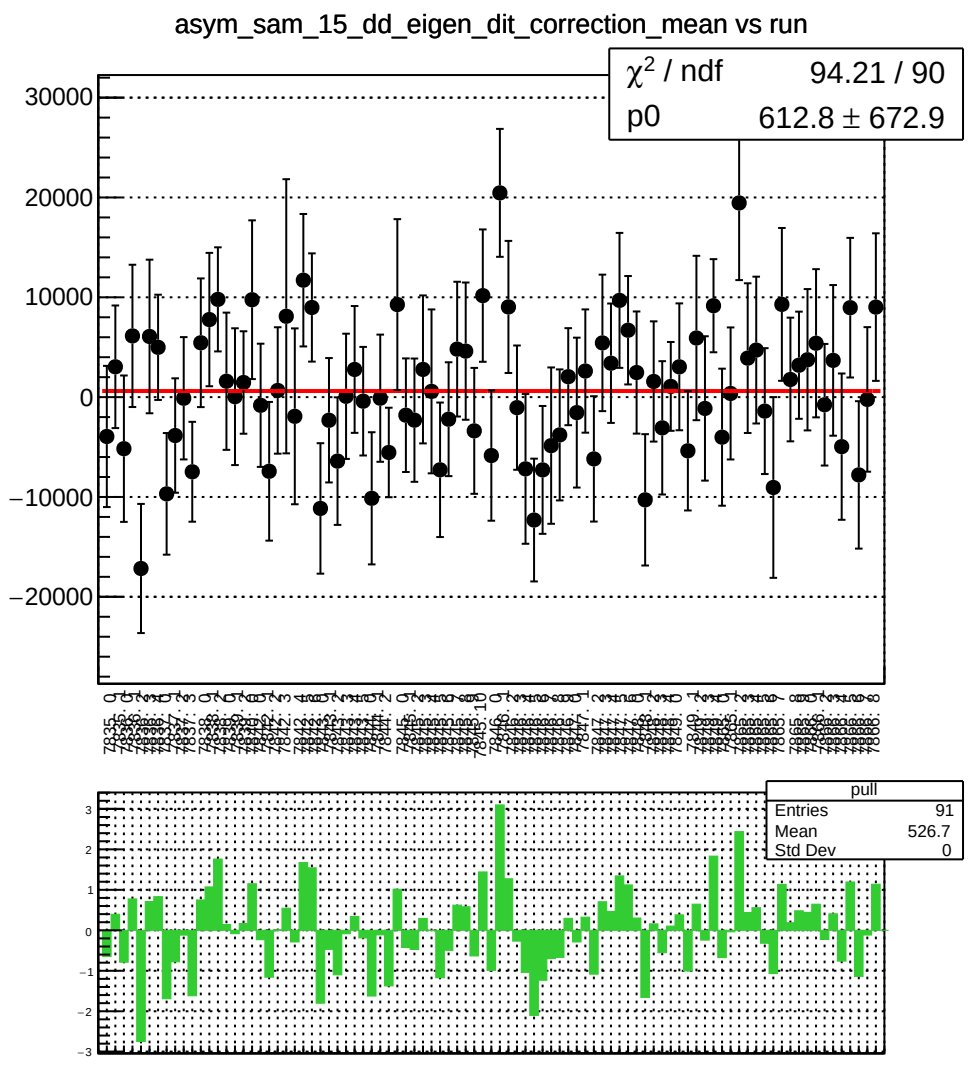

pull1D
Entries 91
Mean 0.007291
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

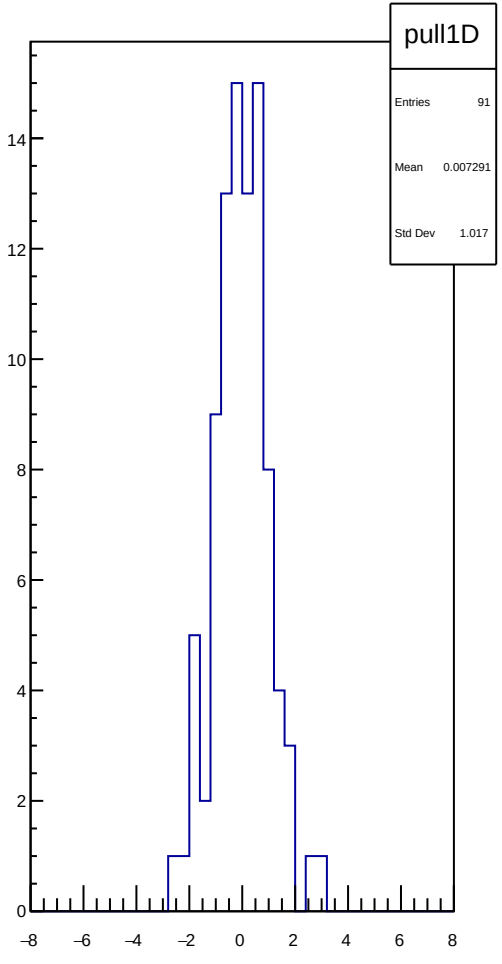

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.02e+04 / 90
p0 626.7 ± 0.4758
1300
1200
1100
1000
900
800
700
600
500

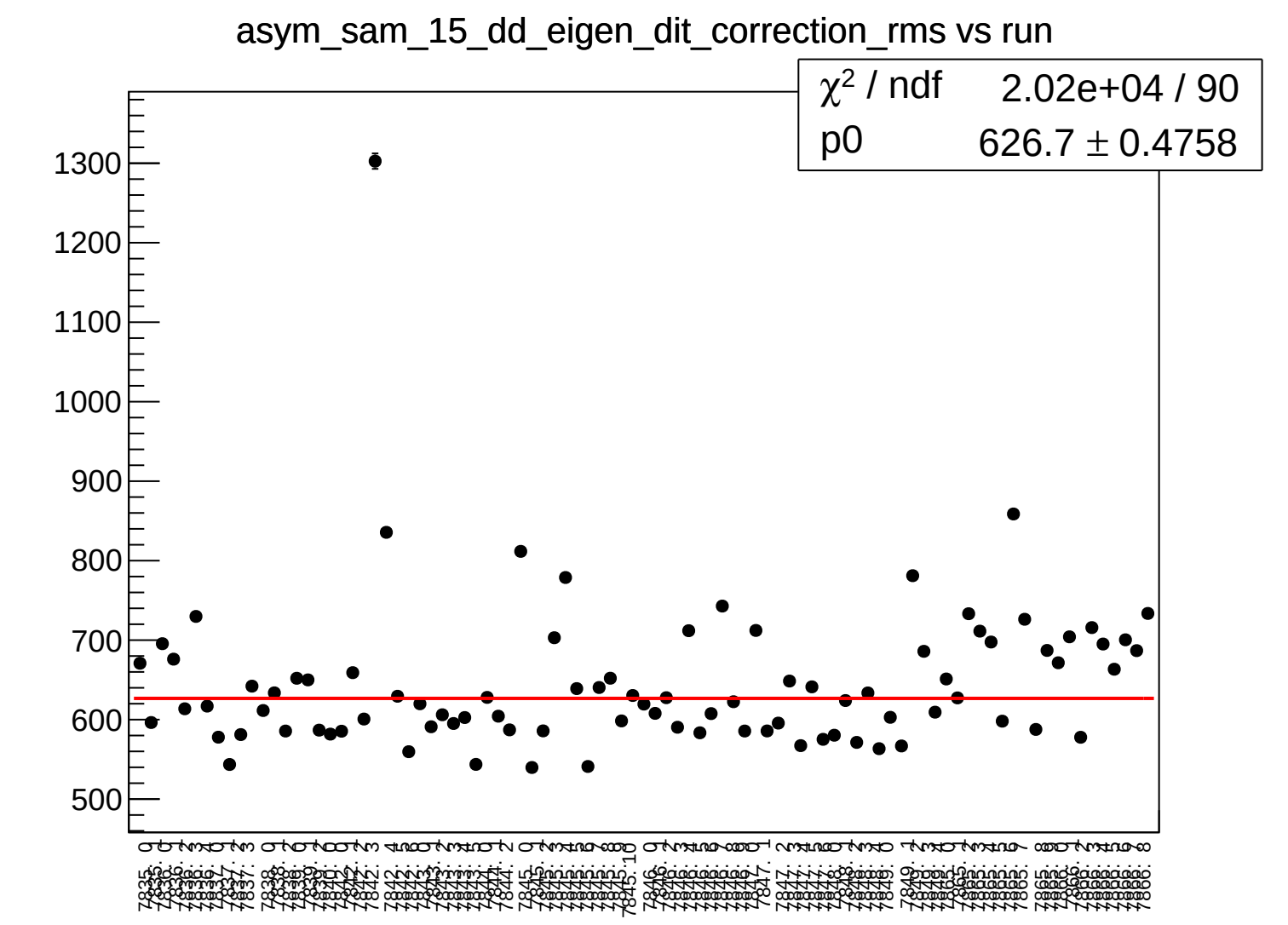

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 101.4 / 90
p0 −152.1± 96.19
pull
Entries 91
Mean 2314
Std Dev 0

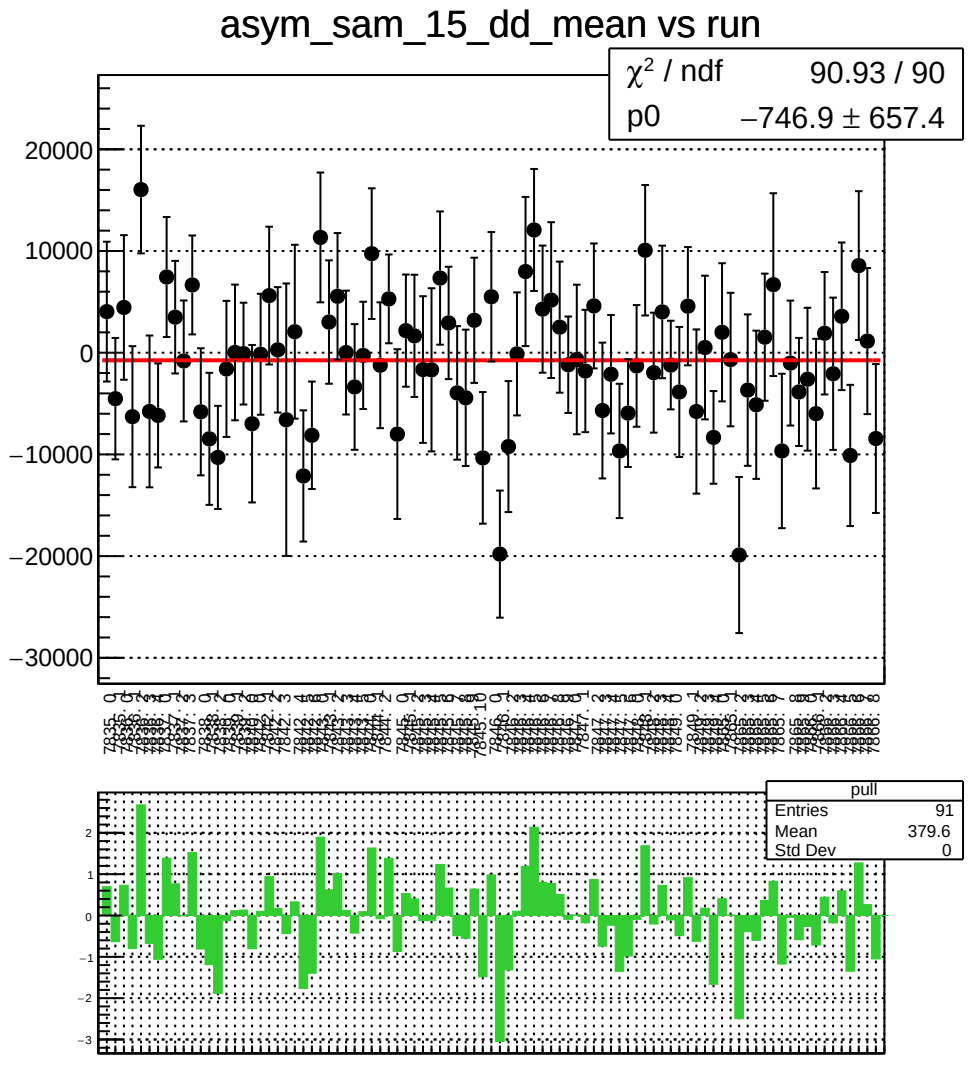

pull1D
Entries 91
Mean 0.001369
Std Dev 1.055

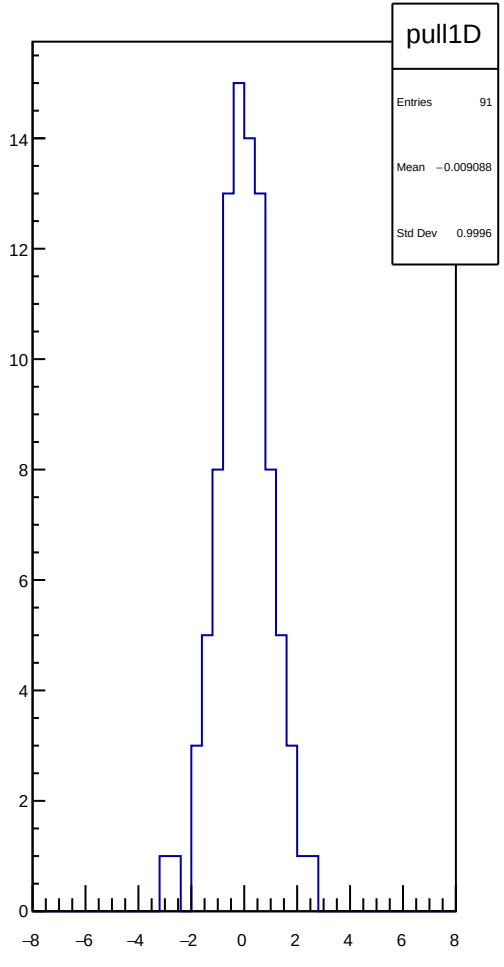

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1407 / 90
p0 90.07 ± 0.06801
102
100
98
96
94
92
90
88
86
84

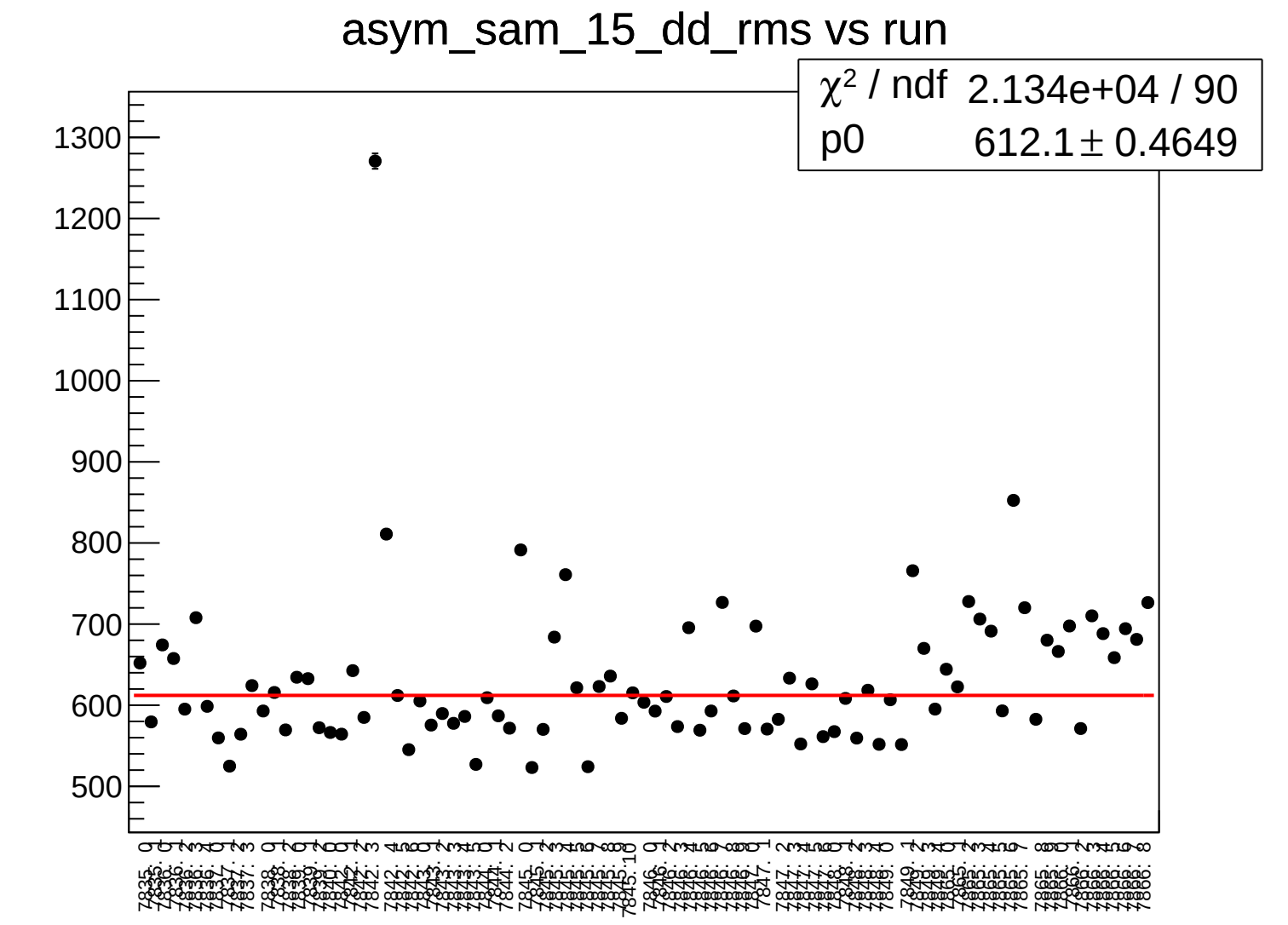

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.21 / 90
p0 612.8 ± 672.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 526.7
Std Dev 0
3
2
1
0
−1
−2
−3

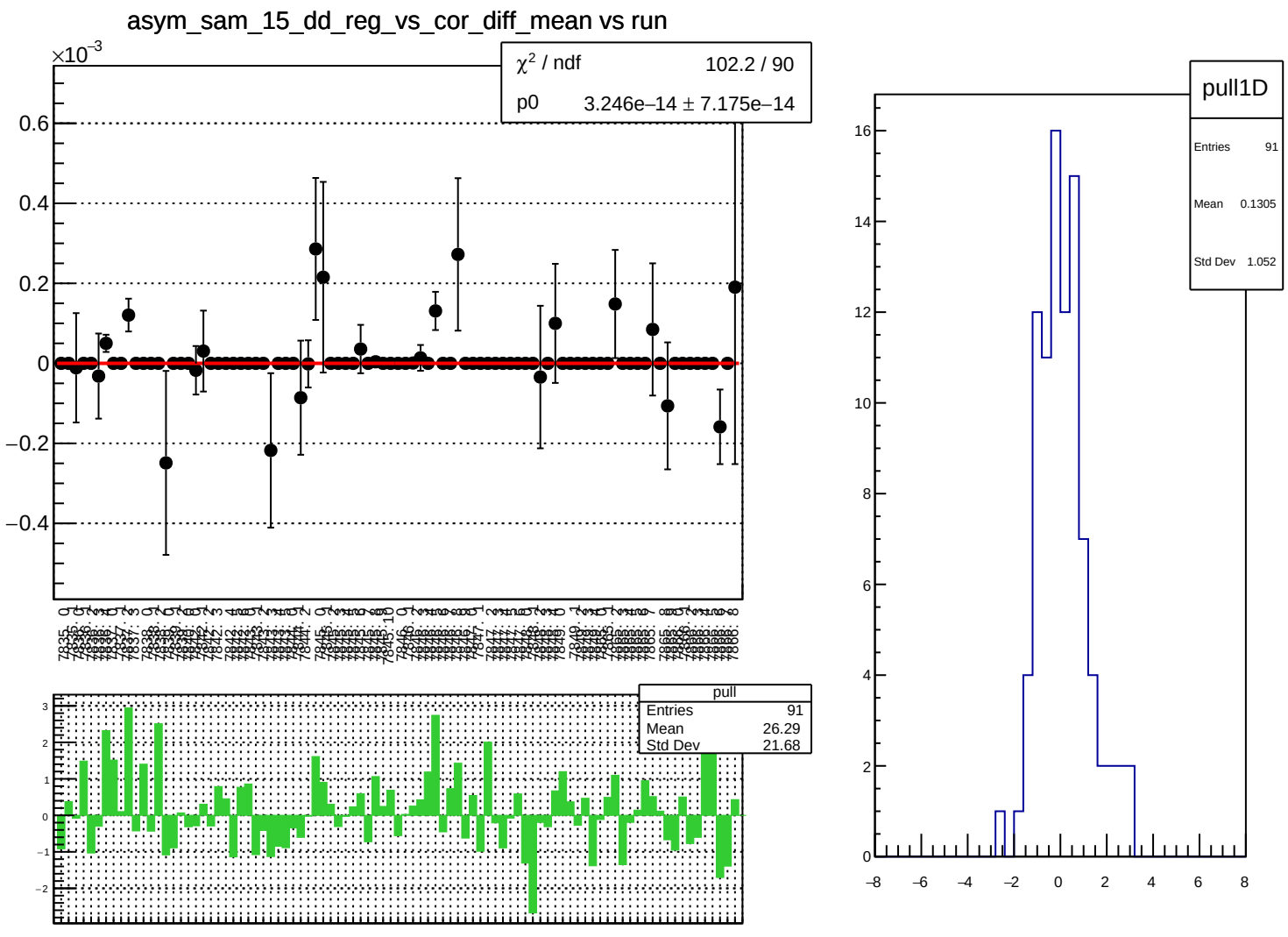

pull1D
Entries 91
Mean 0.007291
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

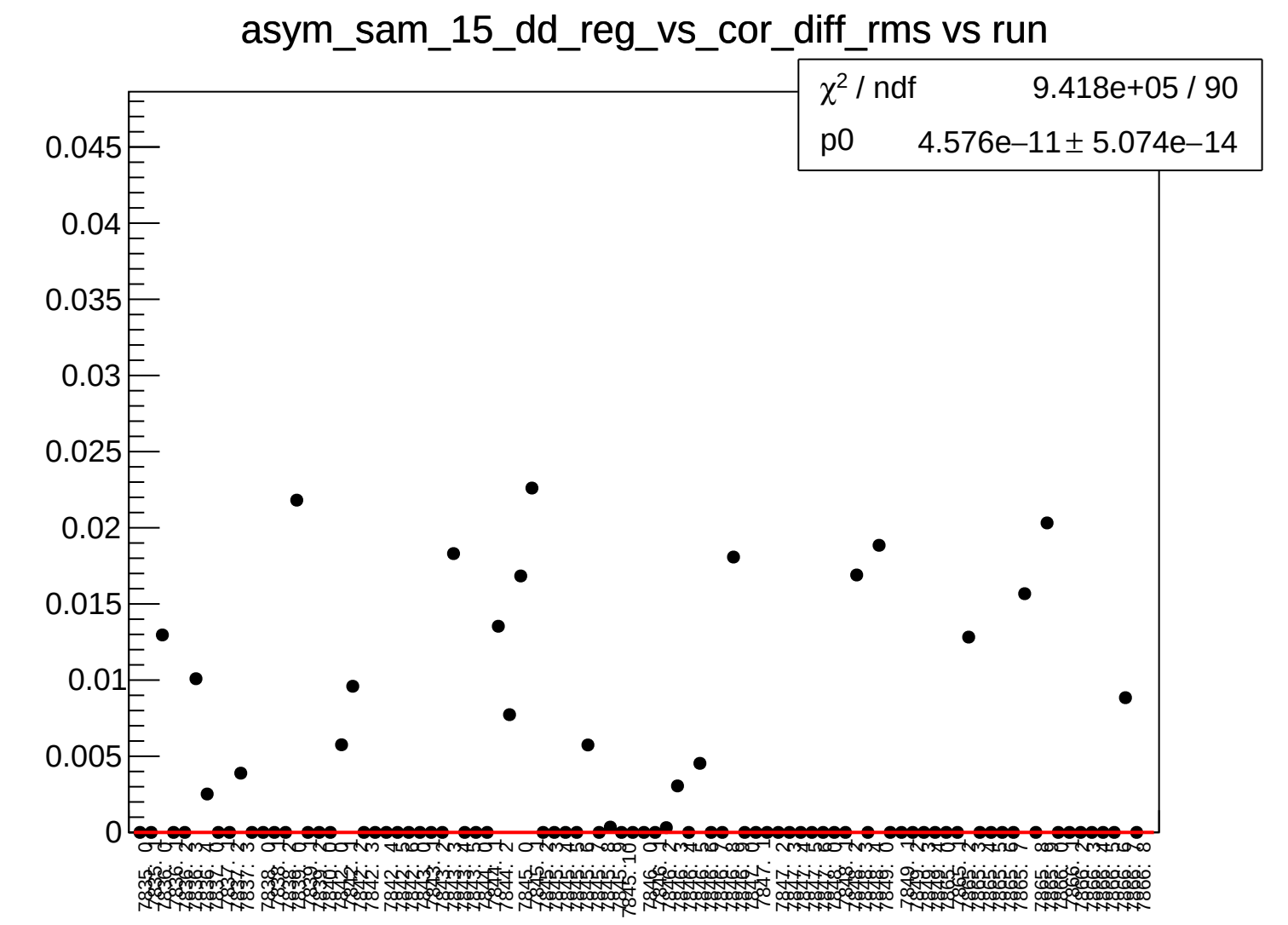

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.02e+04 / 90
p0 626.7 ± 0.4758
1300
1200
1100
1000
900
800
700
600
500

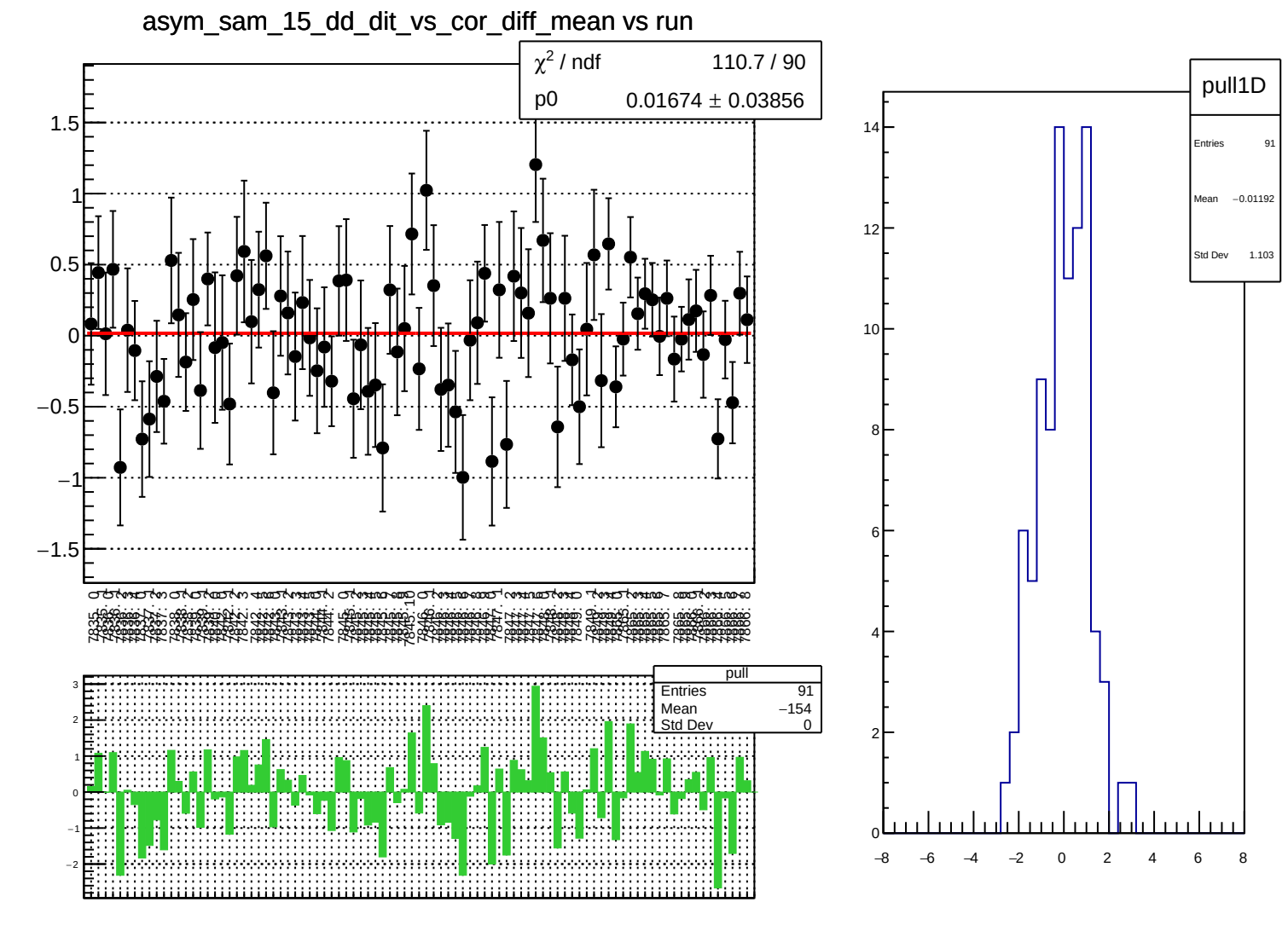

asym_sam_15_dd_mean vs run
χ² / ndf 90.93 / 90
p0 −746.9 ± 657.4
pull
Entries 91
Mean 379.6
Std Dev 0

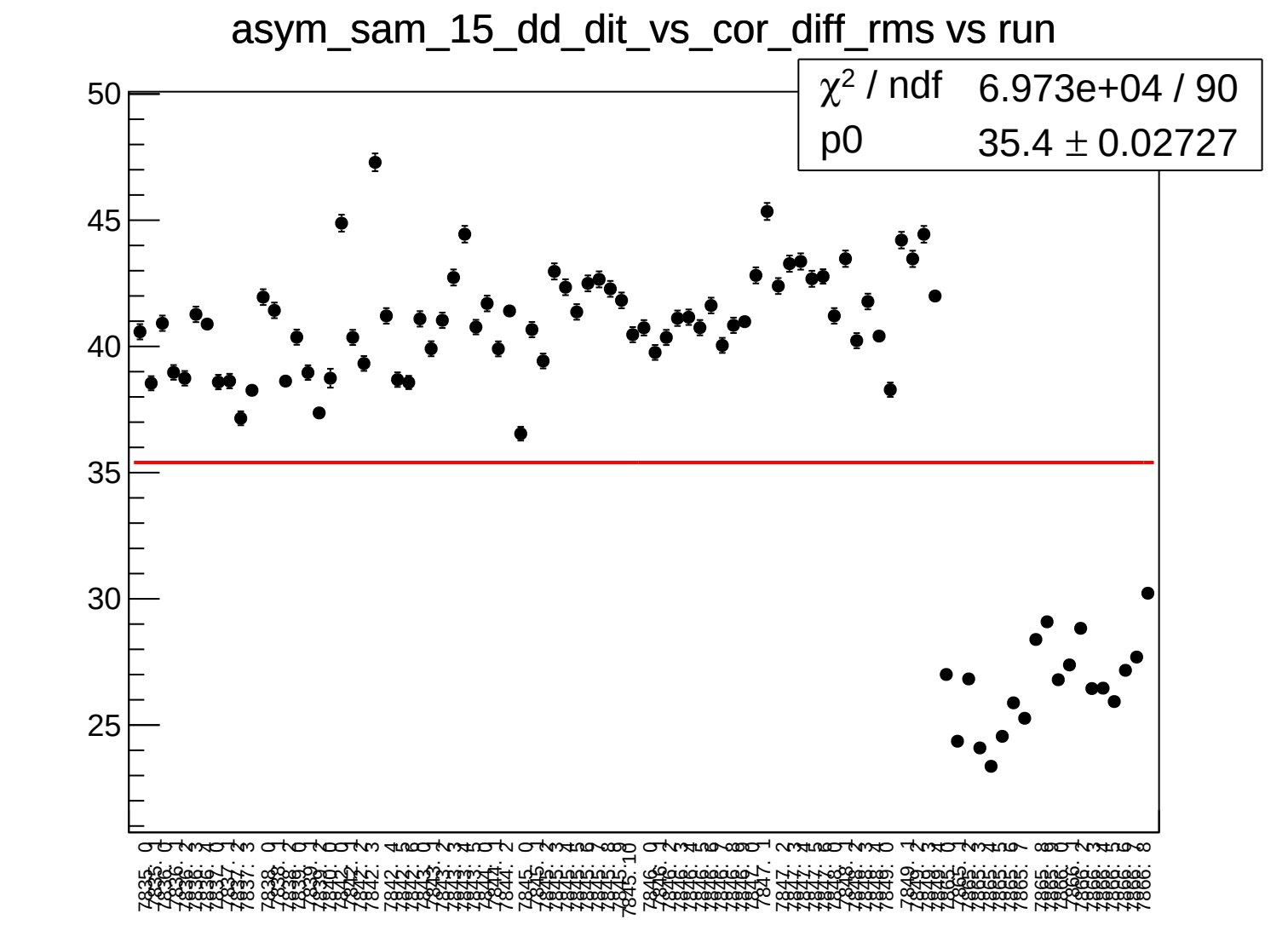

pull1D
Entries 91
Mean −0.009088
Std Dev 0.9996

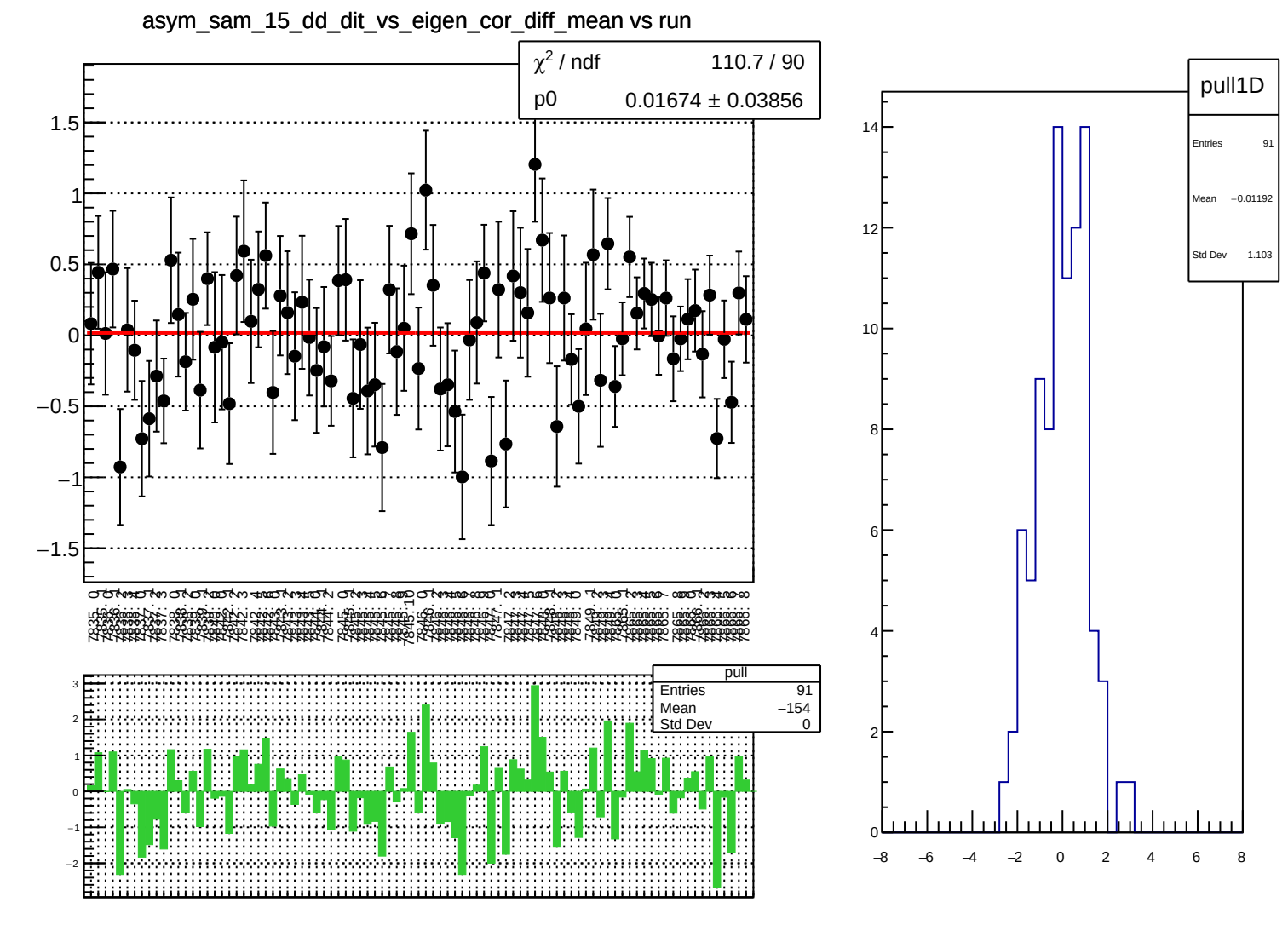

asym_sam_15_dd_rms vs run
χ² / ndf 2.134e+04 / 90
p0 612.1 ± 0.4649
1300
1200
1100
1000
900
800
700
600
500

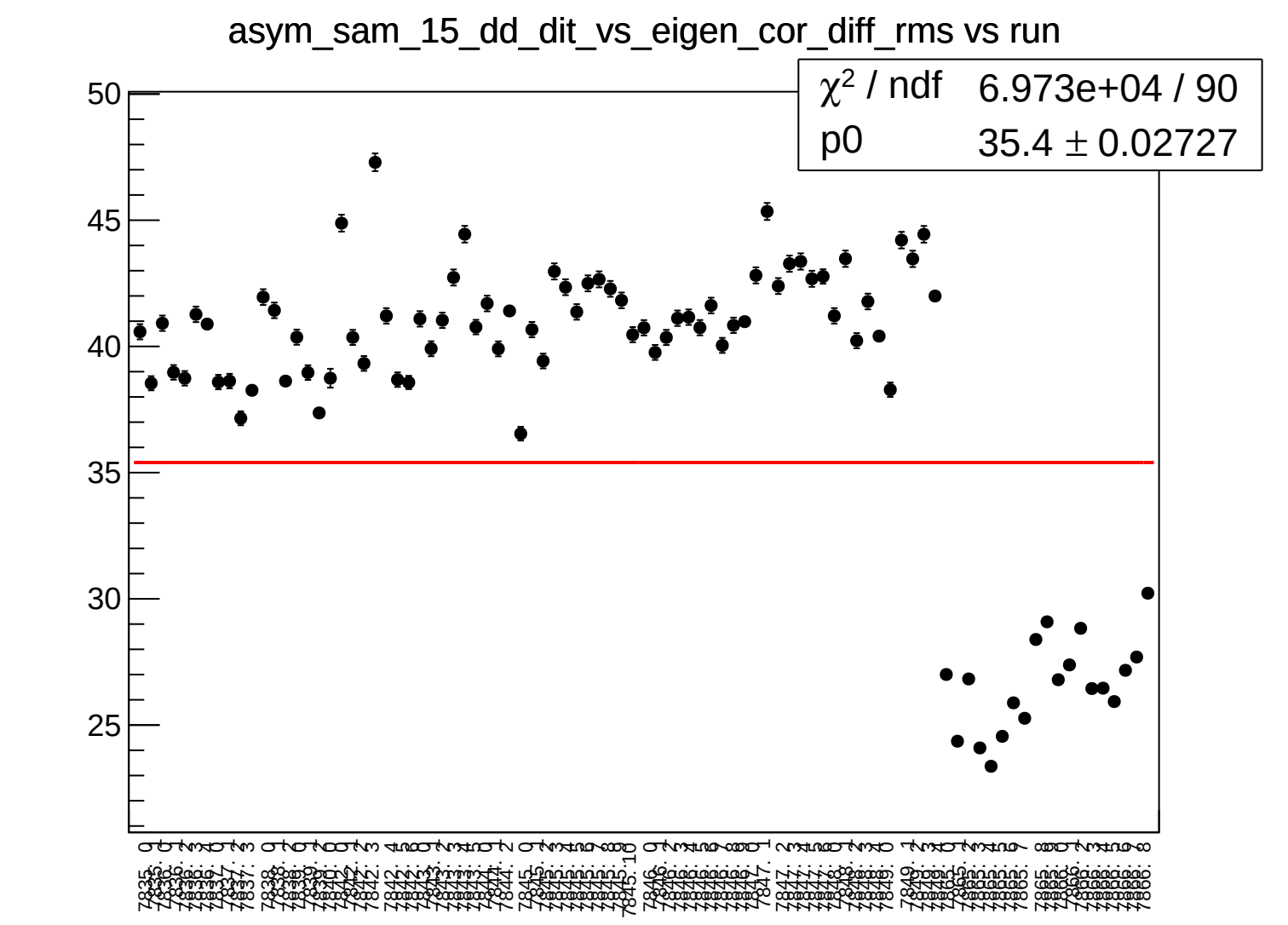

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 102.2 / 90
p0 3.246e−14 ± 7.175e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 26.29
Std Dev 21.68
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1305
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

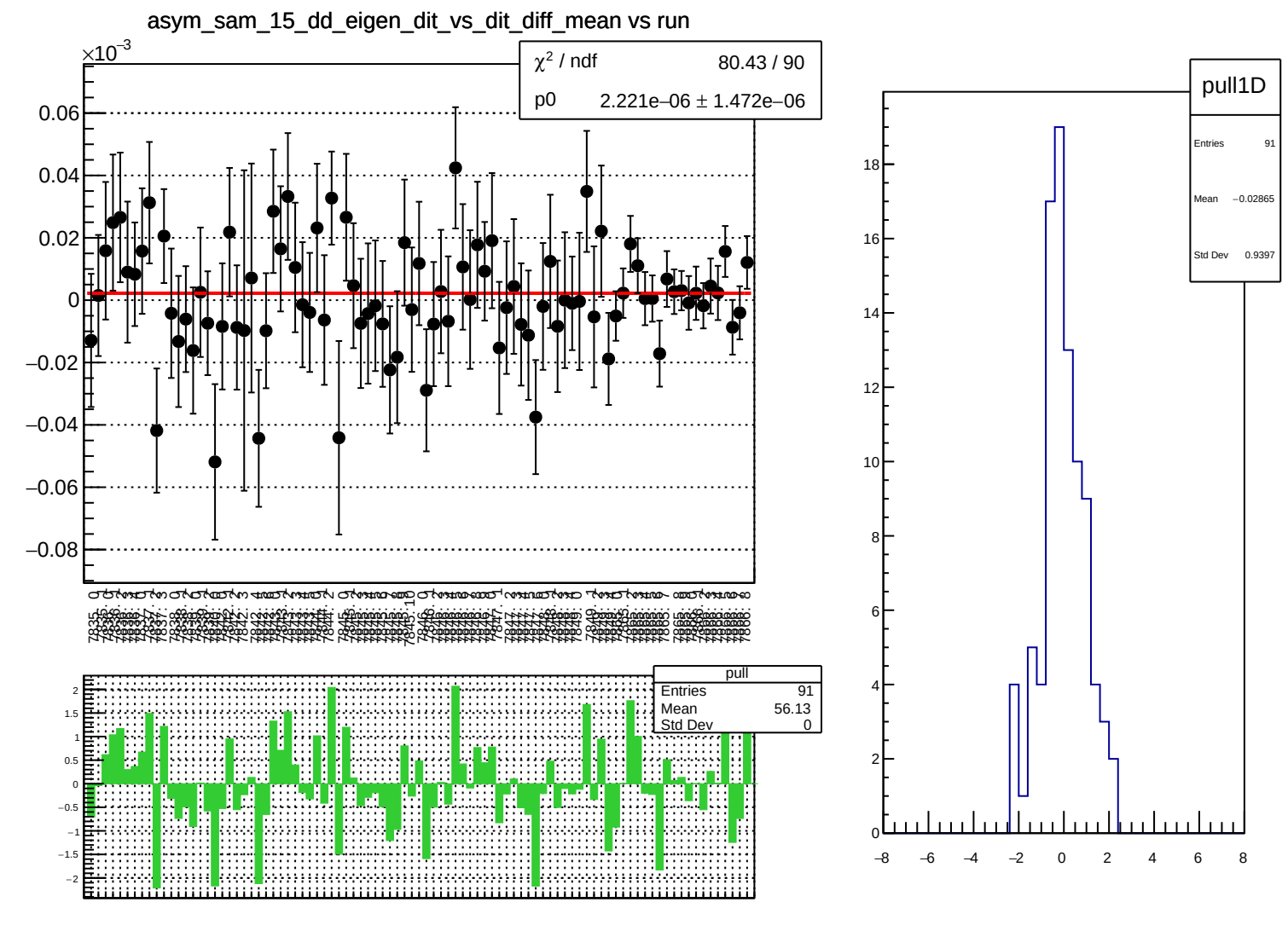

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.418e+05 / 90
p0 4.576e−11 ± 5.074e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

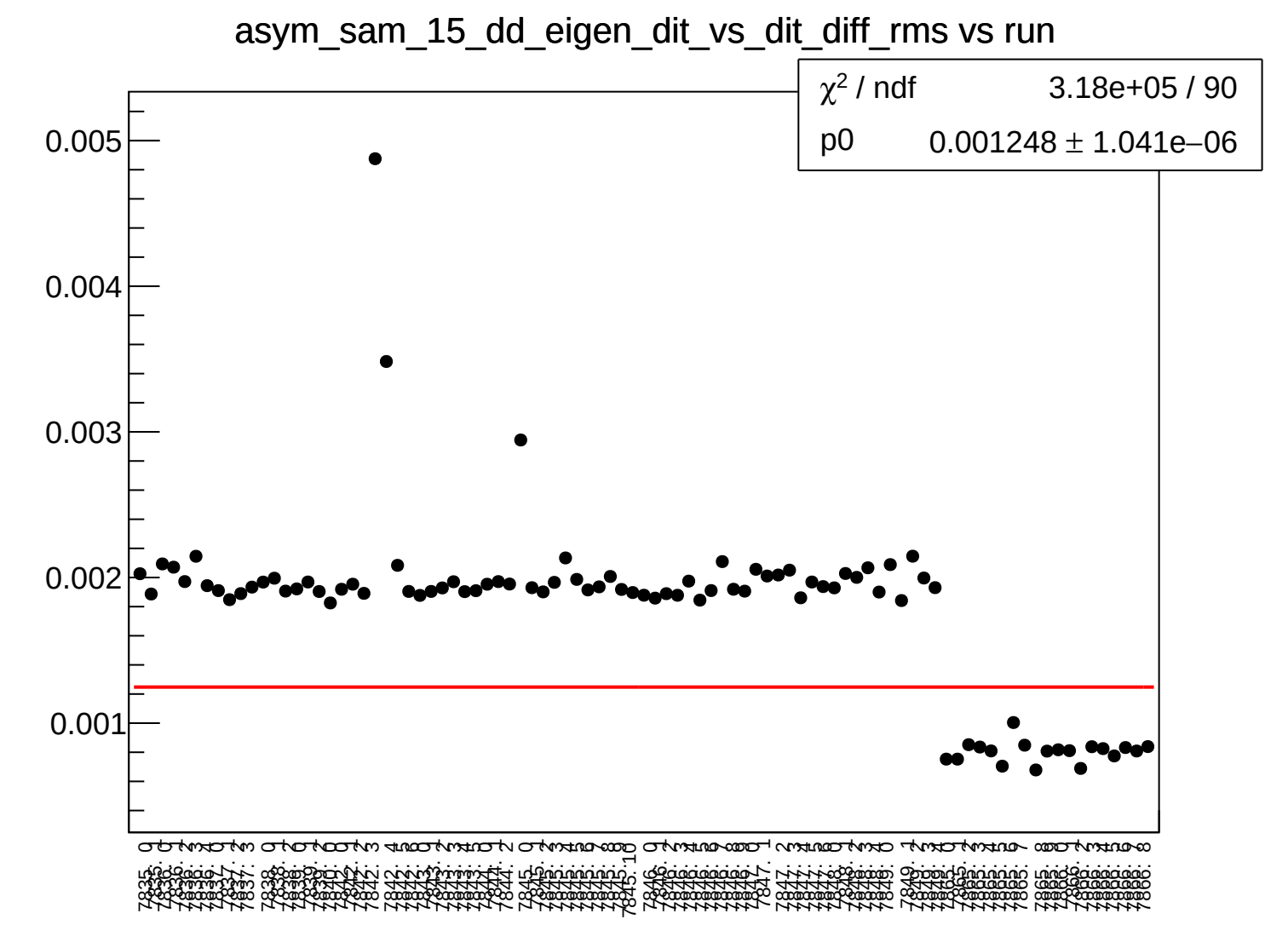

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.01674 ± 0.03856
pull
Entries 91
Mean −154
Std Dev 0
pull1D
Entries 91
Mean −0.01192
Std Dev 1.103

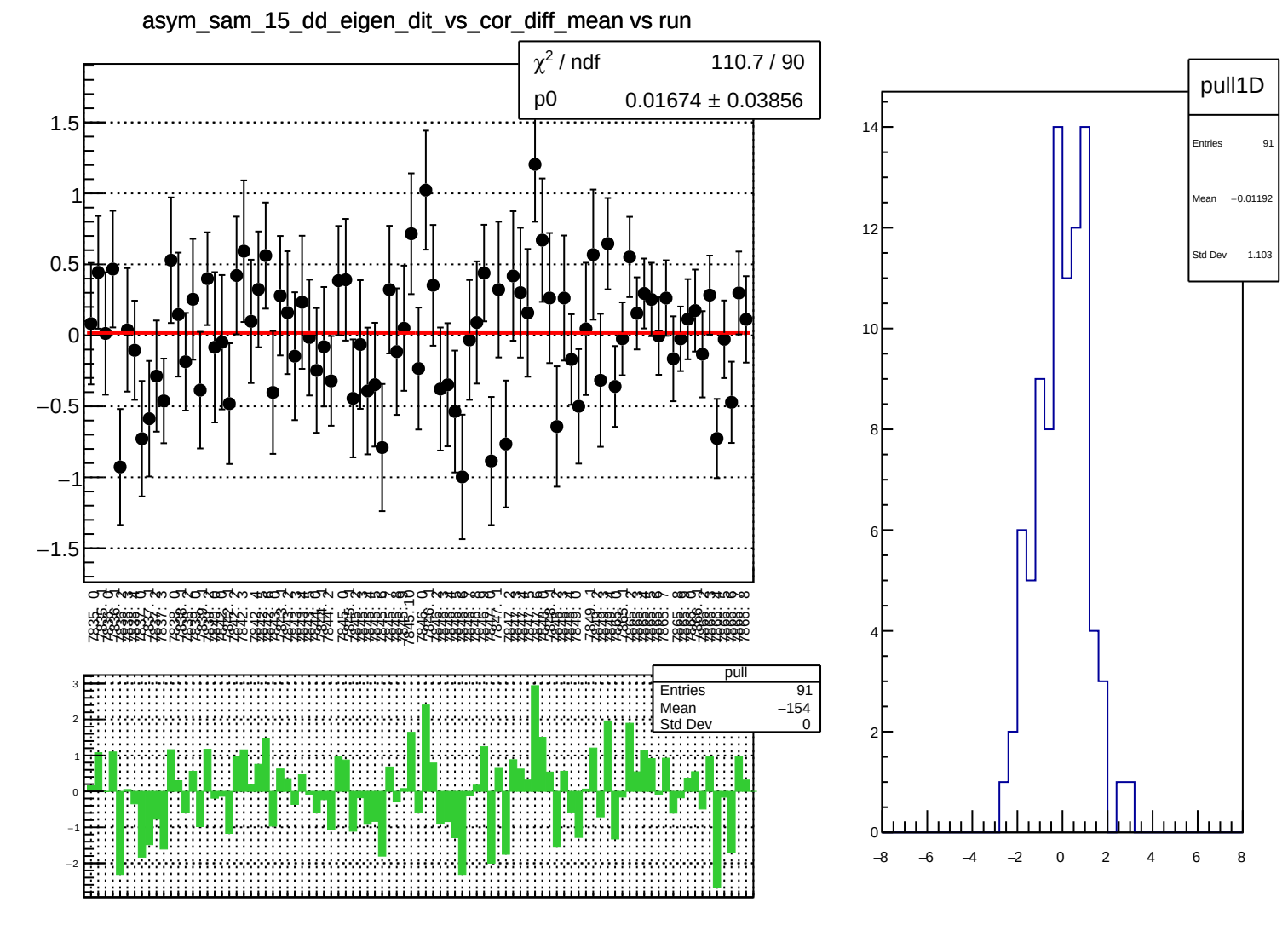

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.973e+04 / 90
p0 35.4 ± 0.02727
50
45
40
35
30
25

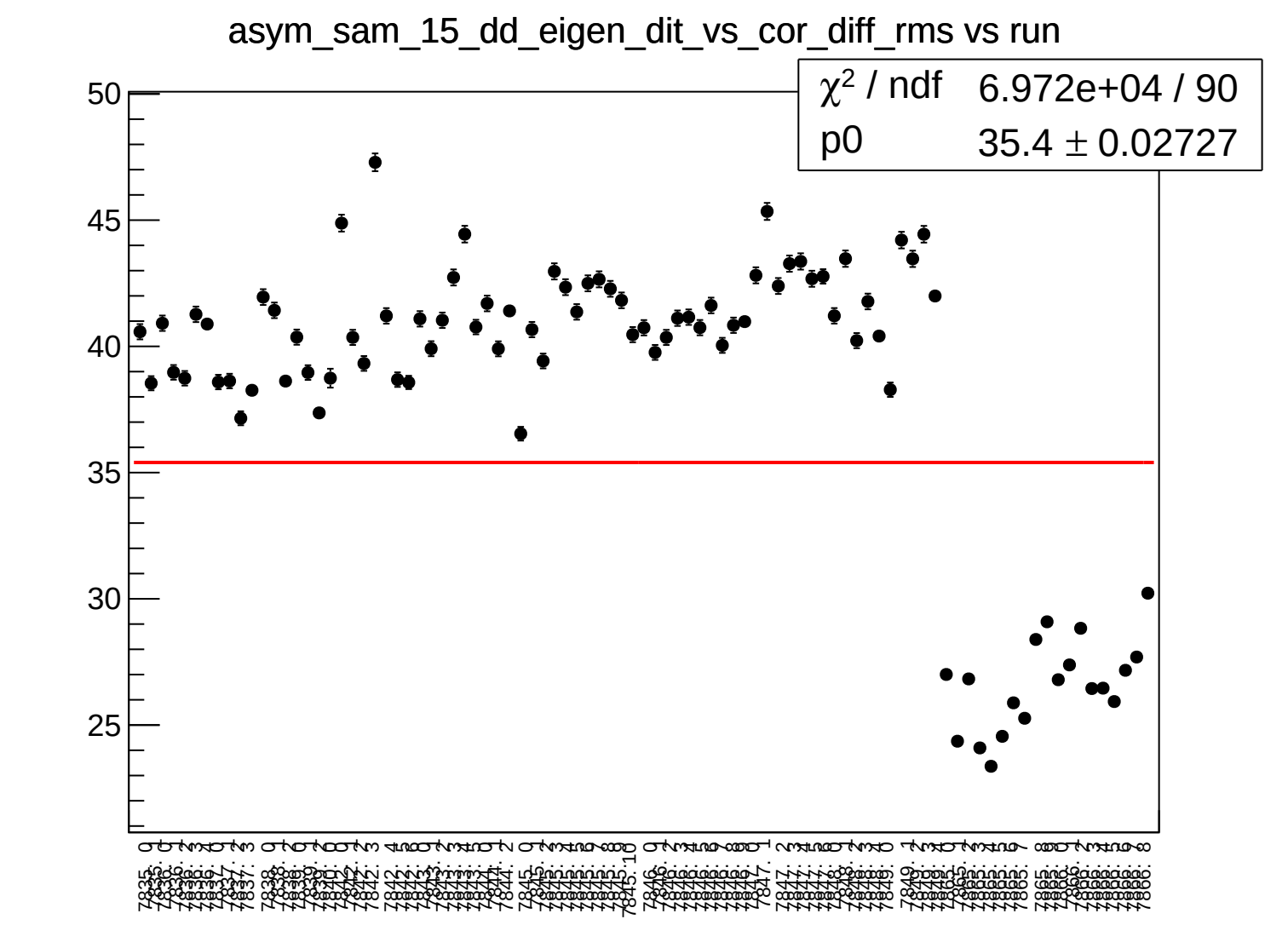

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.01674 ± 0.03856
pull
Entries 91
Mean −154
Std Dev 0
pull1D
Entries 91
Mean −0.01192
Std Dev 1.103

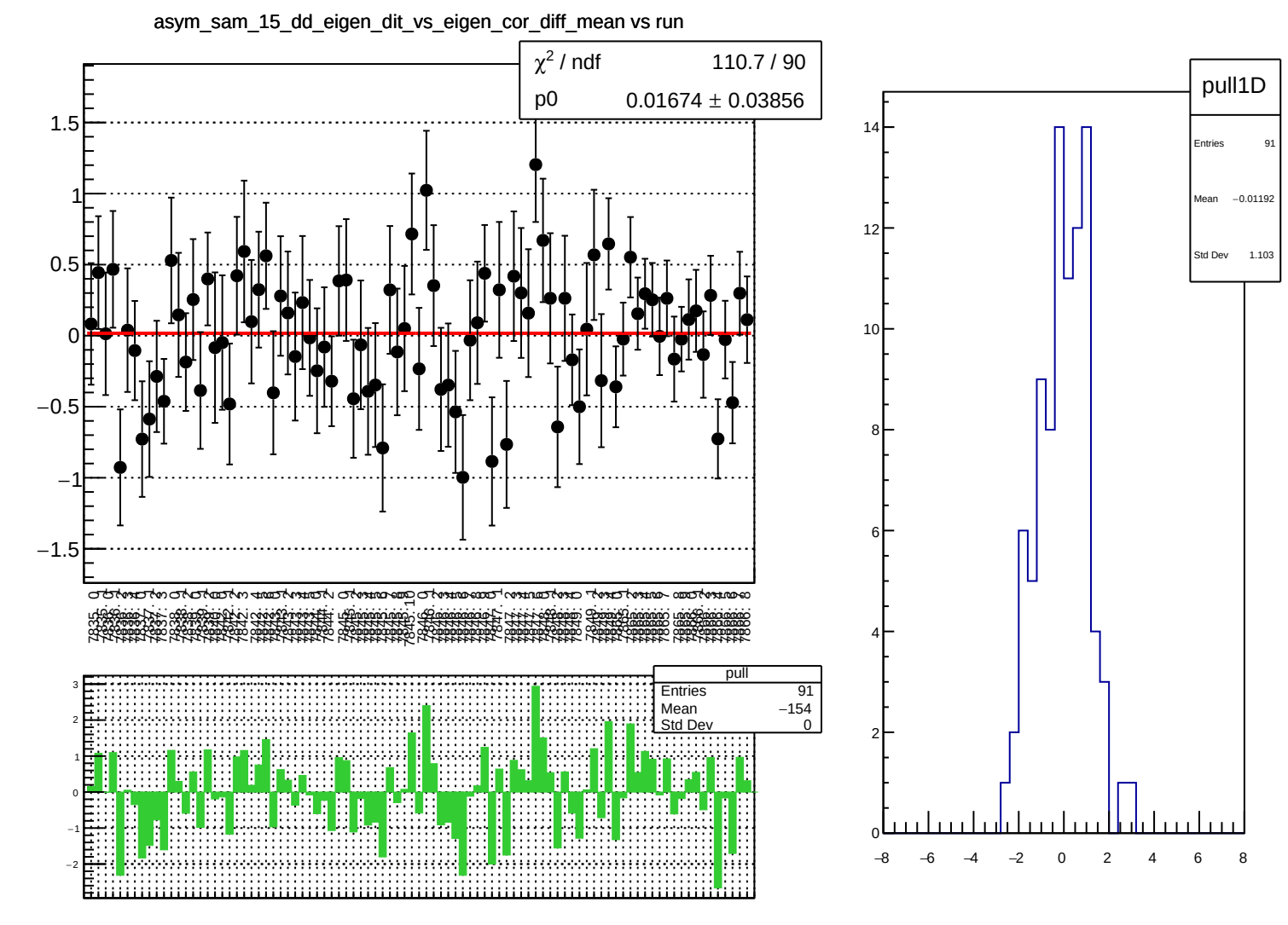

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.973e+04 / 90
p0 35.4 ± 0.02727
50
45
40
35
30
25

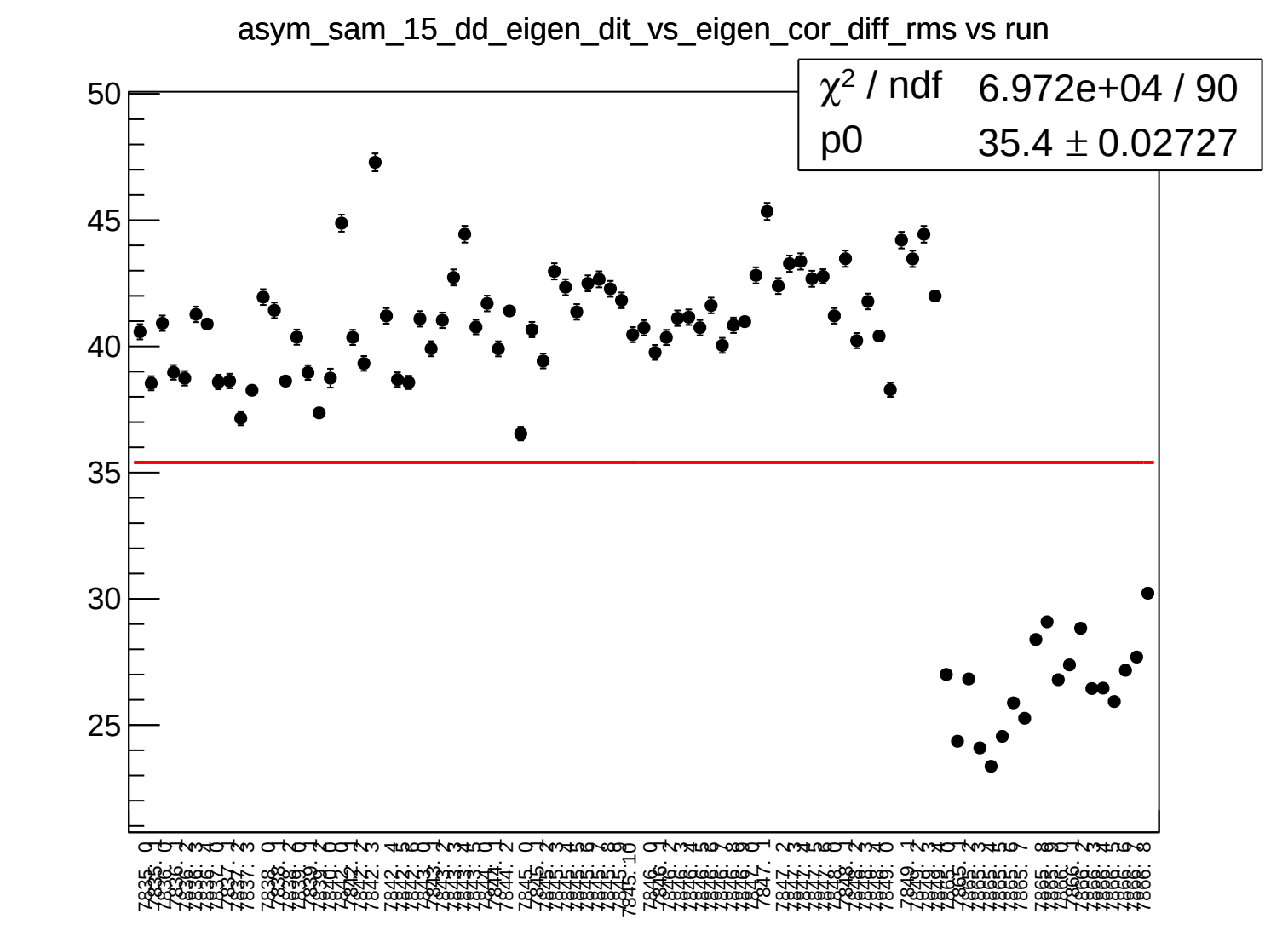

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.43 / 90
p0 2.221e−06 ± 1.472e−06
pull
Entries 91
Mean 56.13
Std Dev 0
pull1D
Entries 91
Mean −0.02865
Std Dev 0.9397

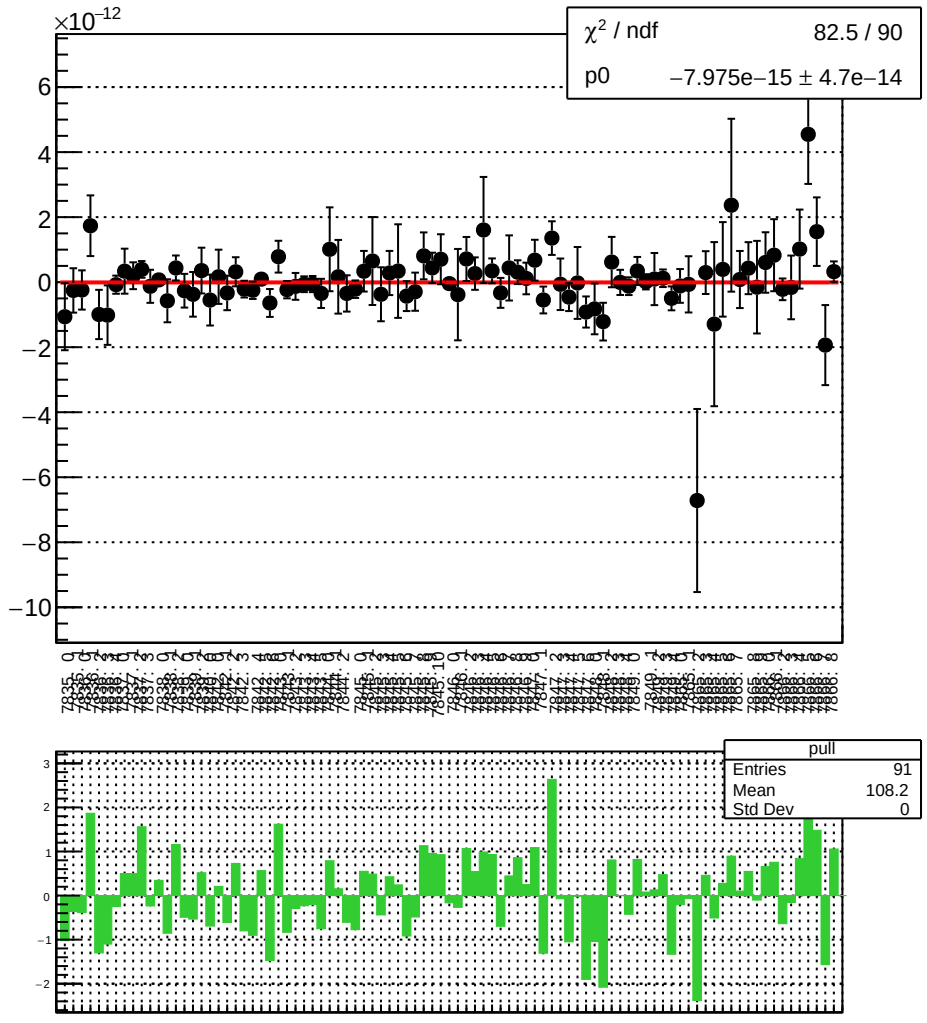

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.18e+05 / 90
p0 0.001248 ± 1.041e−06
0.005
0.004
0.003
0.002
0.001

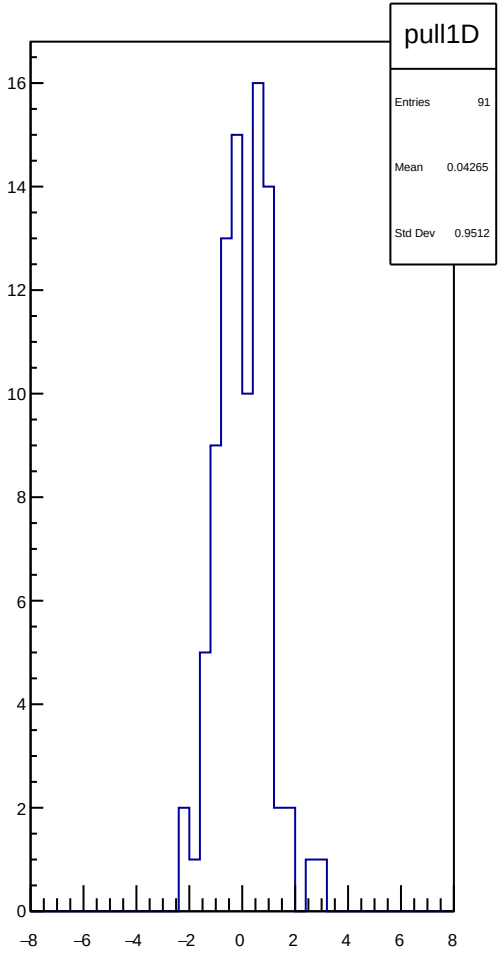

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.01674 ± 0.03856
pull
Entries 91
Mean −154
Std Dev 0
pull1D
Entries 91
Mean −0.01192
Std Dev 1.103

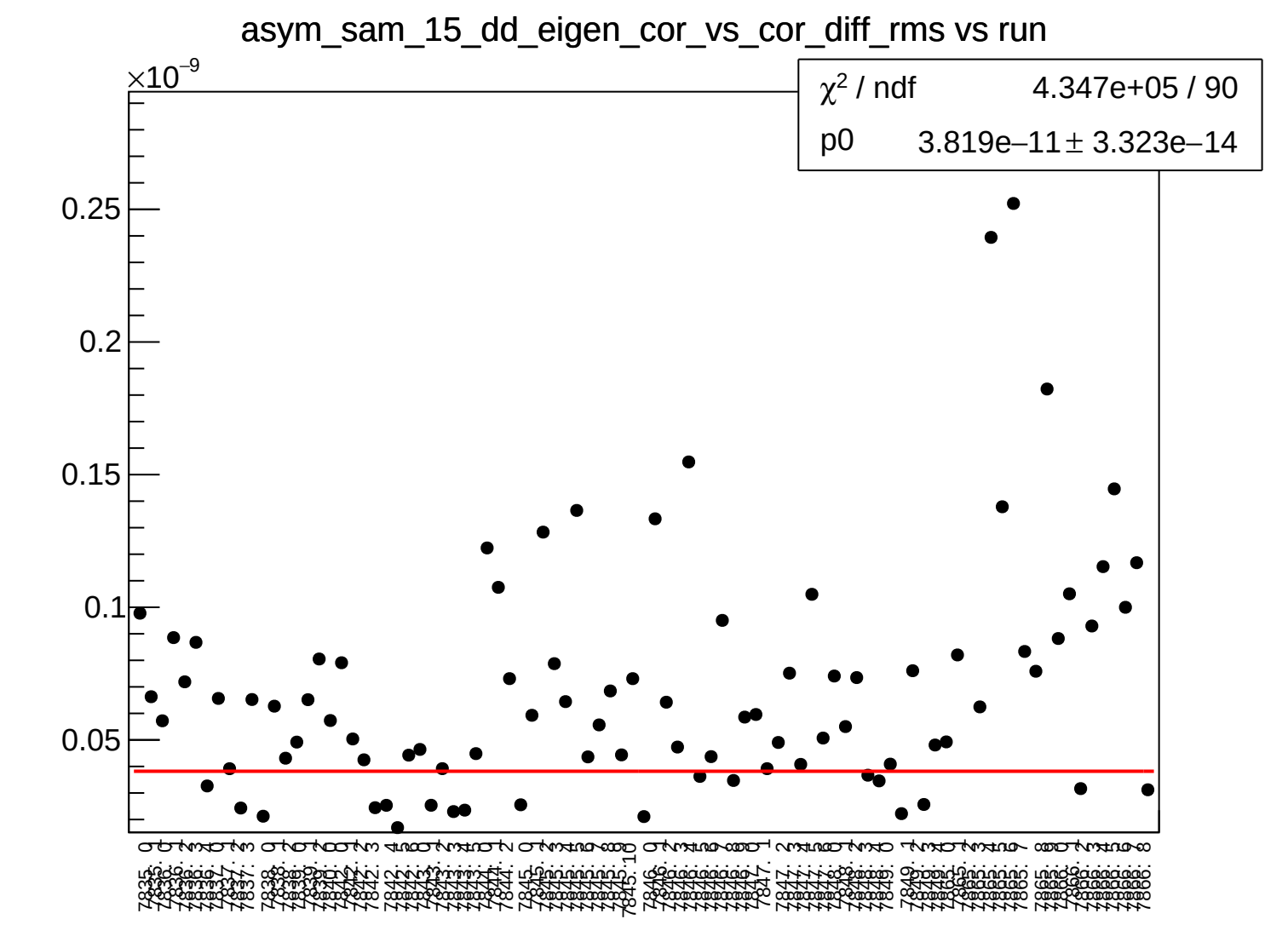

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.972e+04 / 90
p0 35.4 ± 0.02727
50
45
40
35
30
25

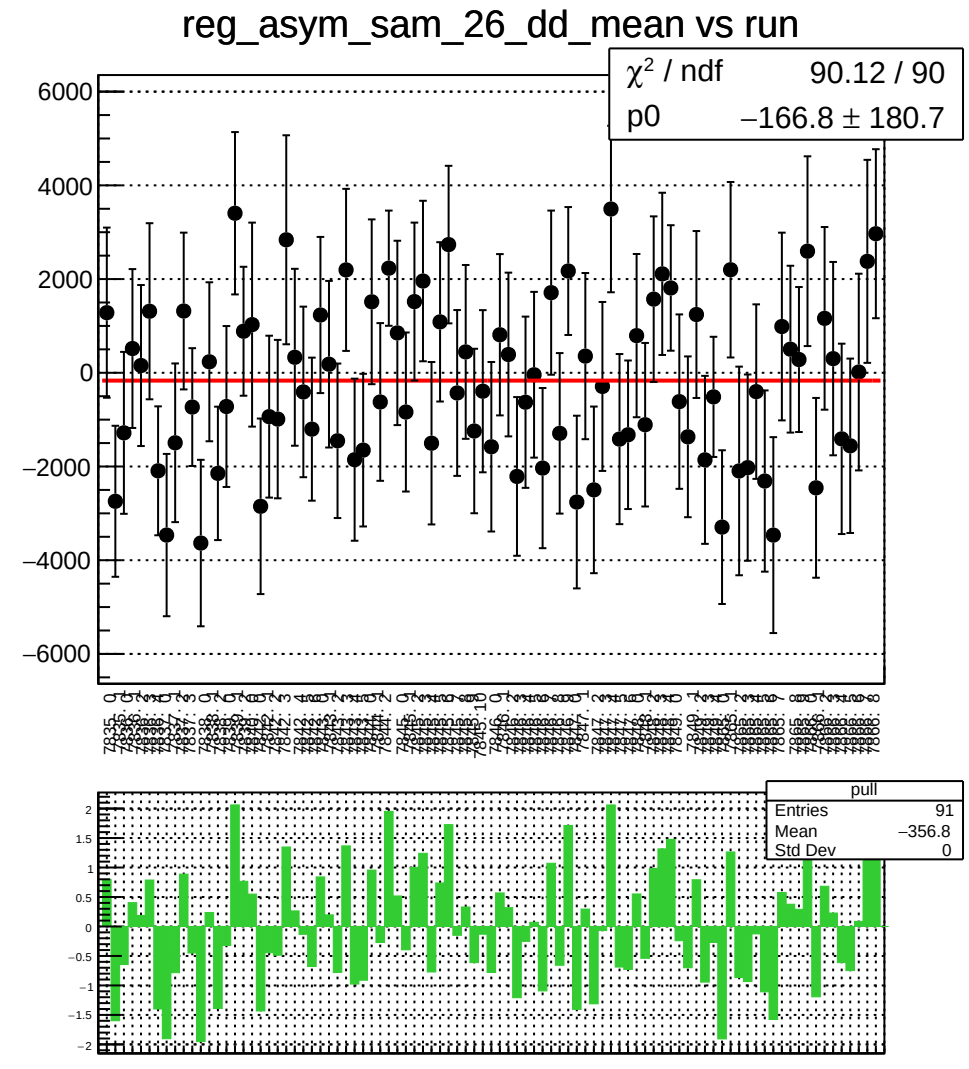

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.01674 ± 0.03856
pull
Entries 91
Mean −154
Std Dev 0
pull1D
Entries 91
Mean −0.01192
Std Dev 1.103

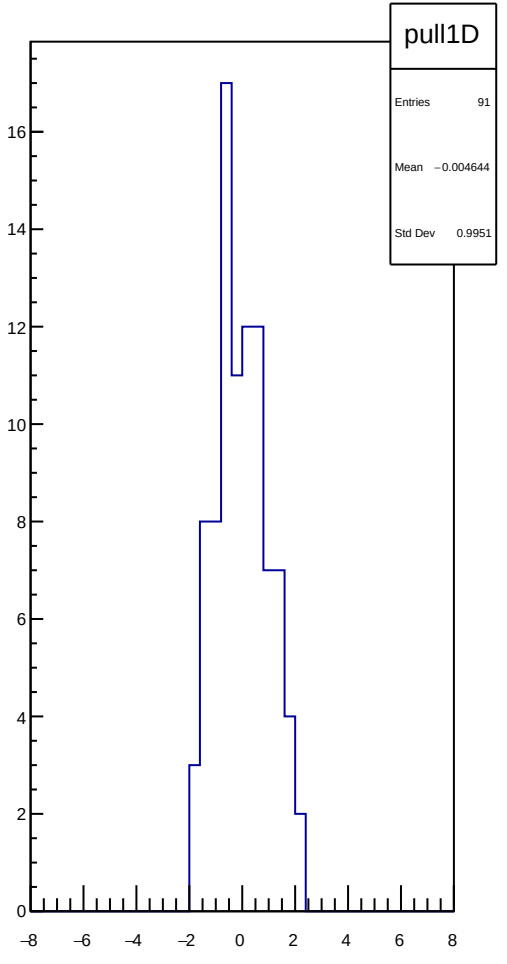

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.972e+04 / 90
p0 35.4 ± 0.02727
50
45
40
35
30
25

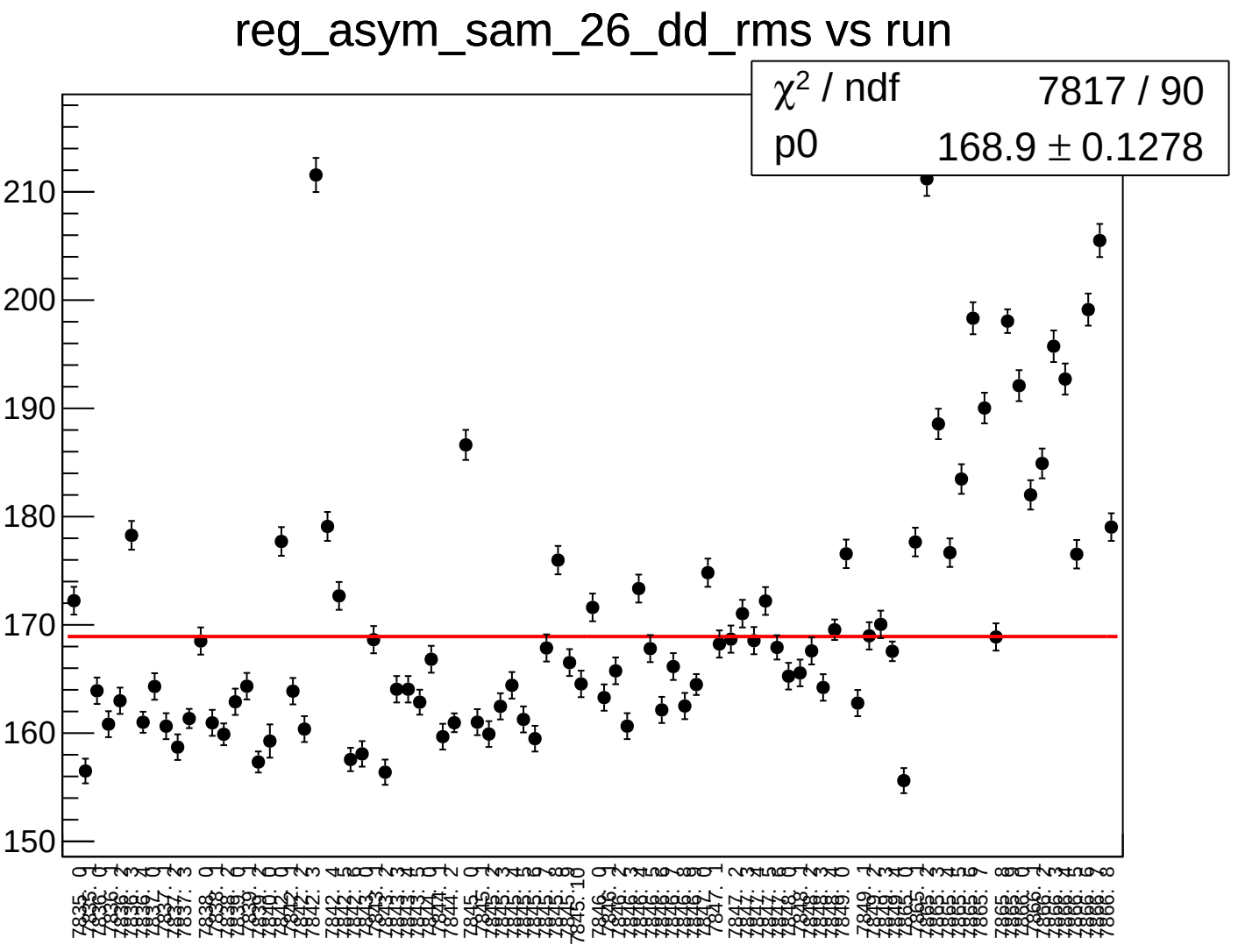

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.5 / 90
p0 −7.975e−15 ± 4.7e−14
pull
Entries 91
Mean 108.2
Std Dev 0

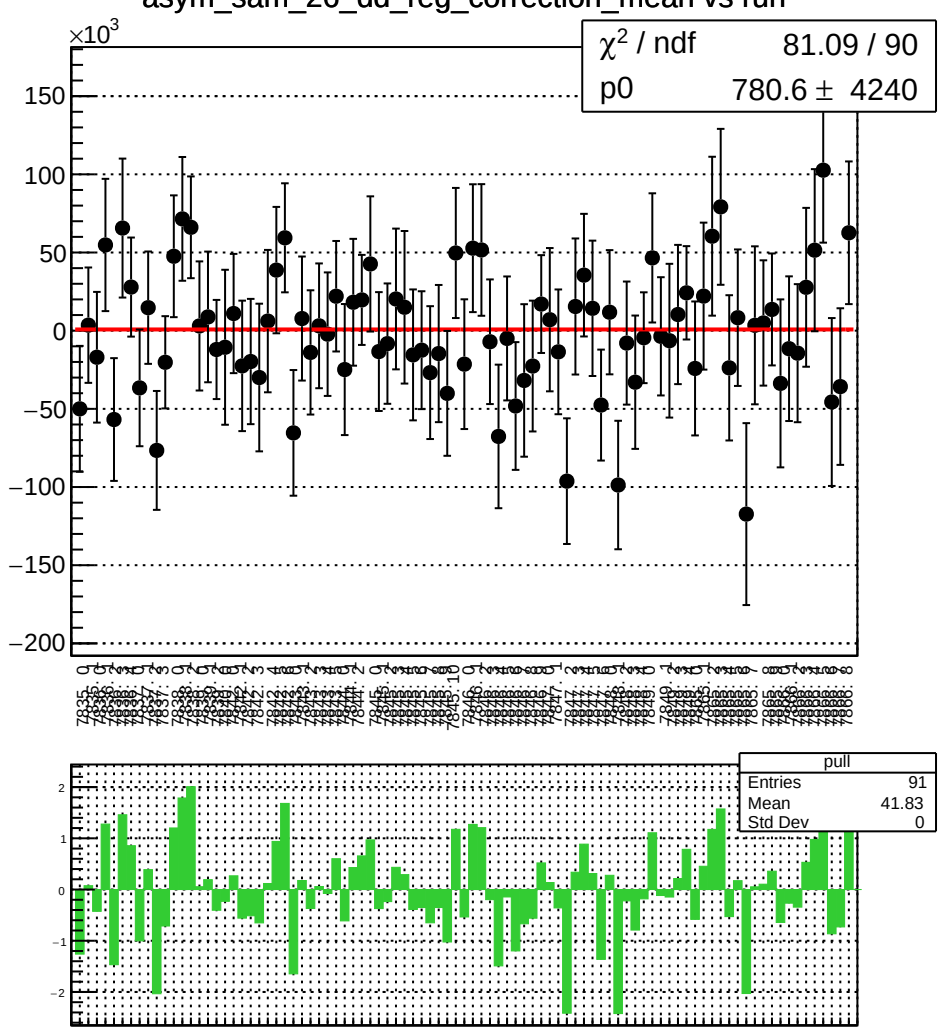

pull1D
Entries 91
Mean 0.04265
Std Dev 0.9512

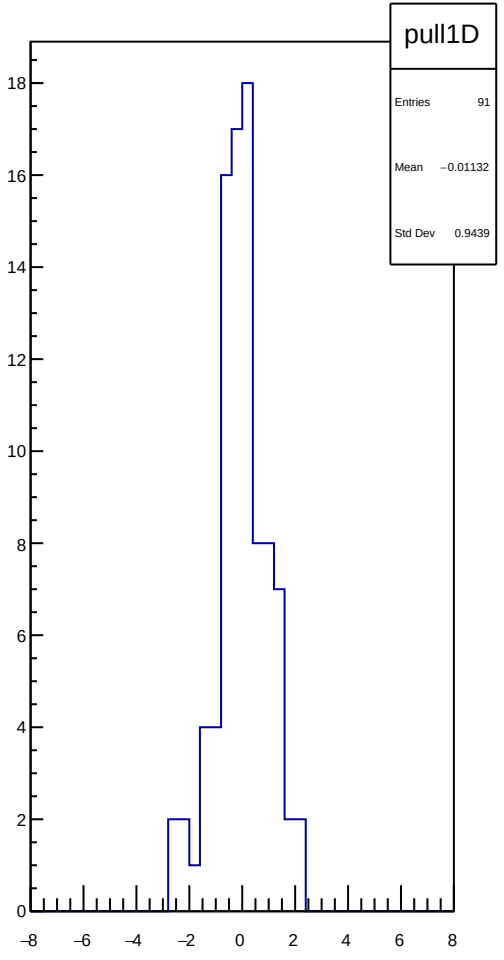

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.347e+05 / 90
p0 3.819e−11 ± 3.323e−14
0.25
0.2
0.15
0.1
0.05

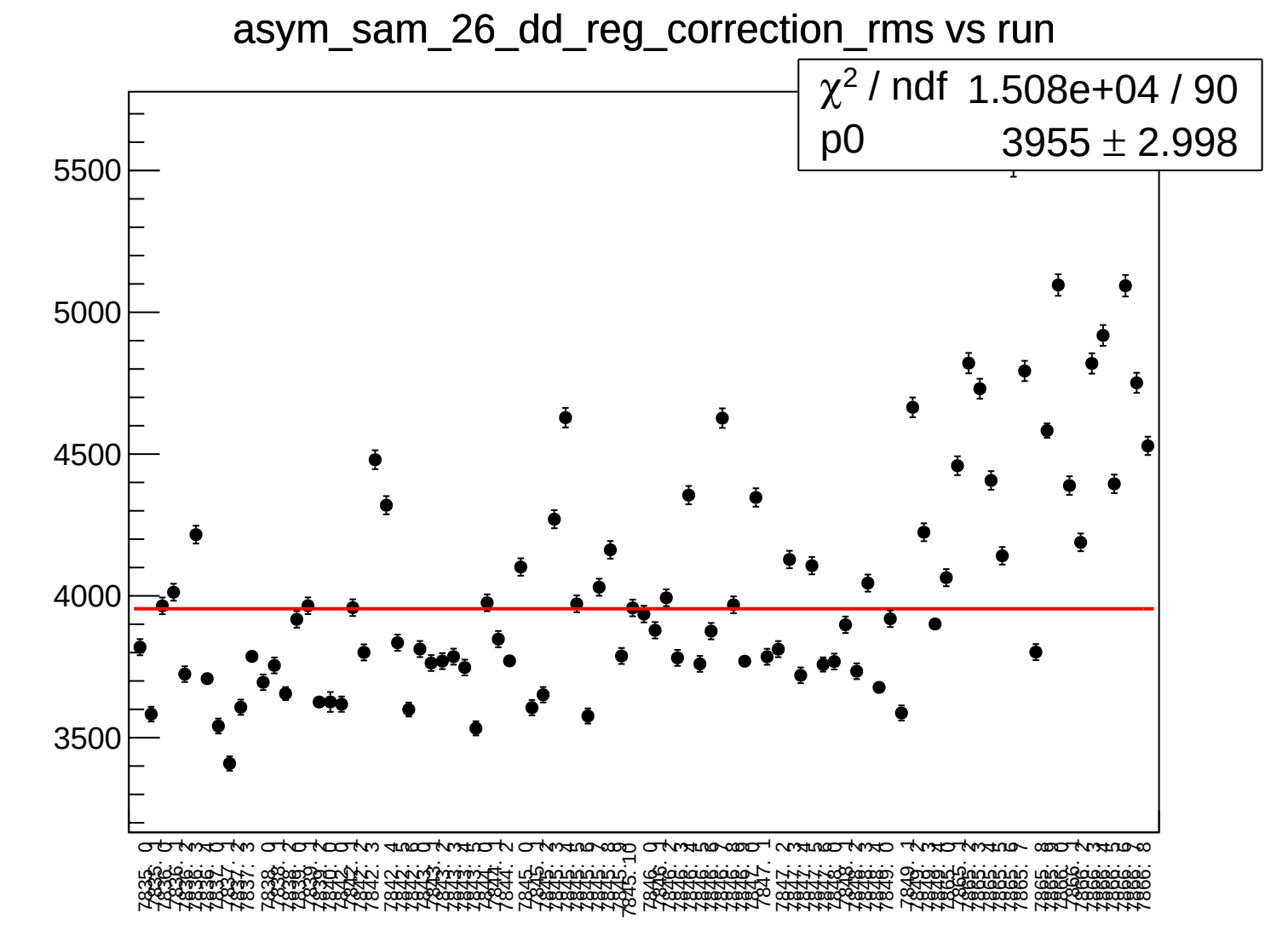

reg_asym_sam_26_dd_mean vs run
χ² / ndf 90.12 / 90
p0 −166.8 ± 180.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −356.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

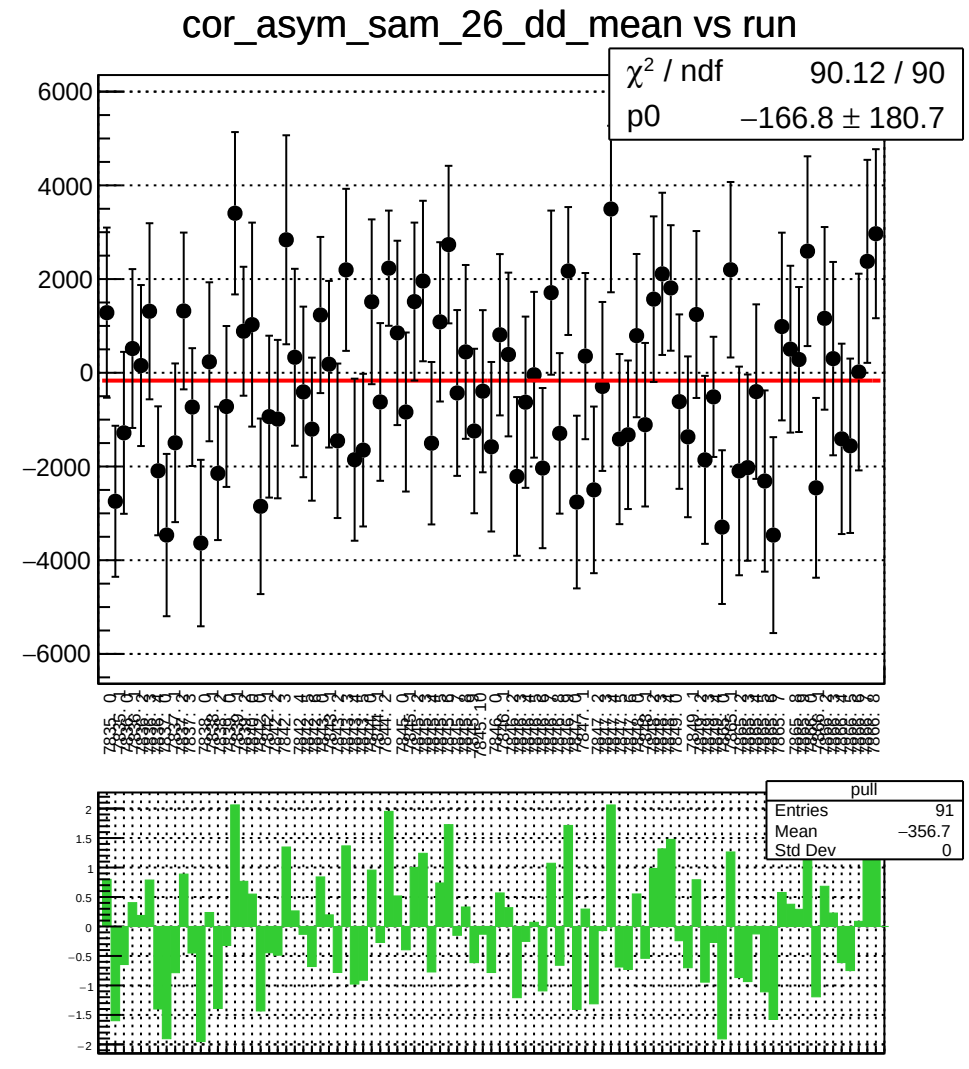

pull1D
Entries 91
Mean −0.004644
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

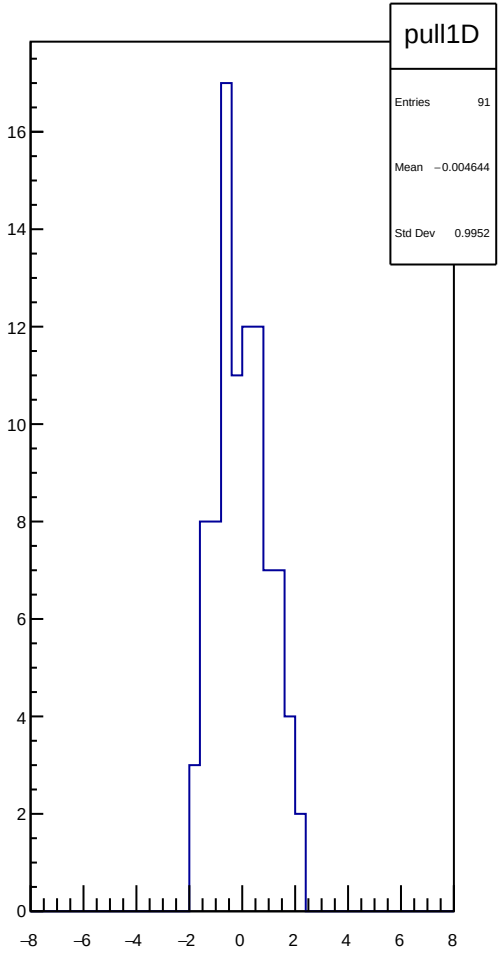

reg_asym_sam_26_dd_rms vs run
χ² / ndf 7817 / 90
p0 168.9 ± 0.1278
210
200
190
180
170
160
150

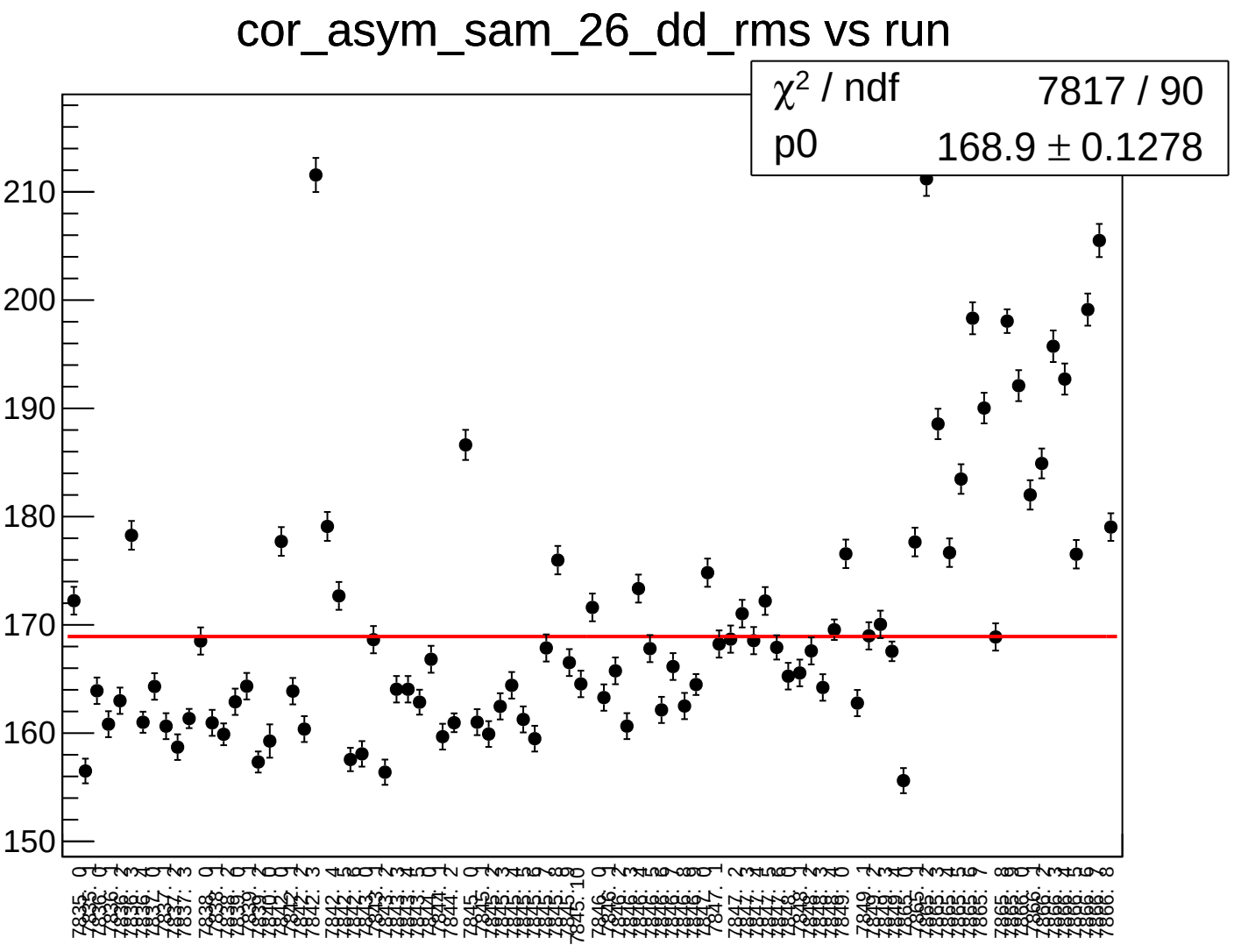

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.09 / 90
p0 780.6 ± 4240
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 41.83
Std Dev 0
2
1
0
−1
−2

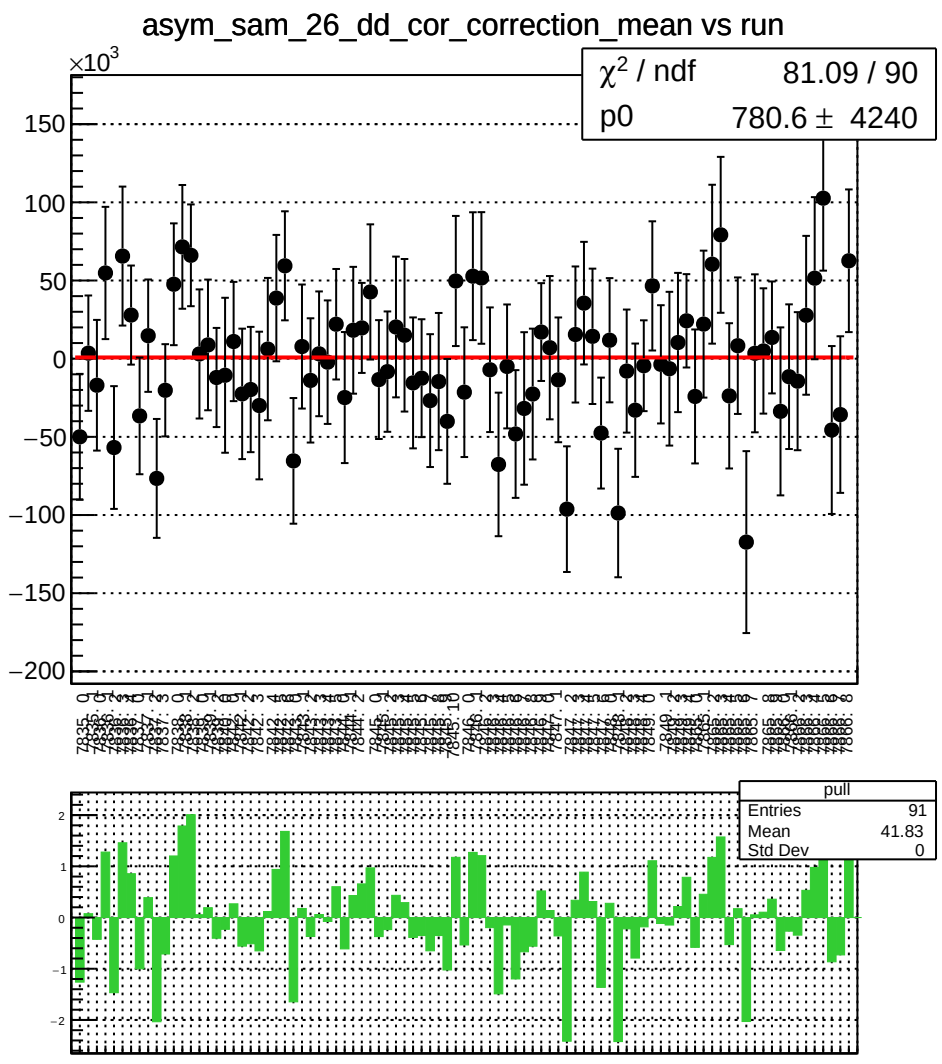

pull1D
Entries 91
Mean −0.01132
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

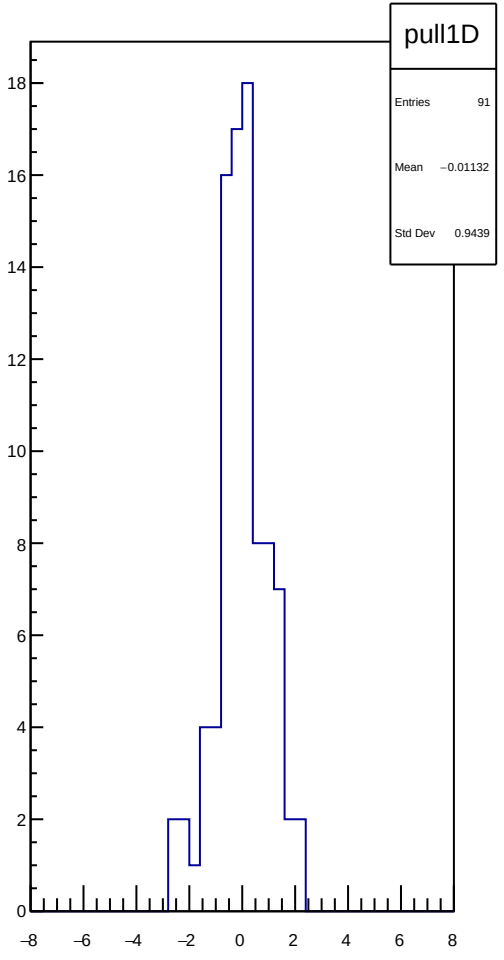

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.508e+04 / 90
p0 3955 ± 2.998
5500
5000
4500
4000
3500

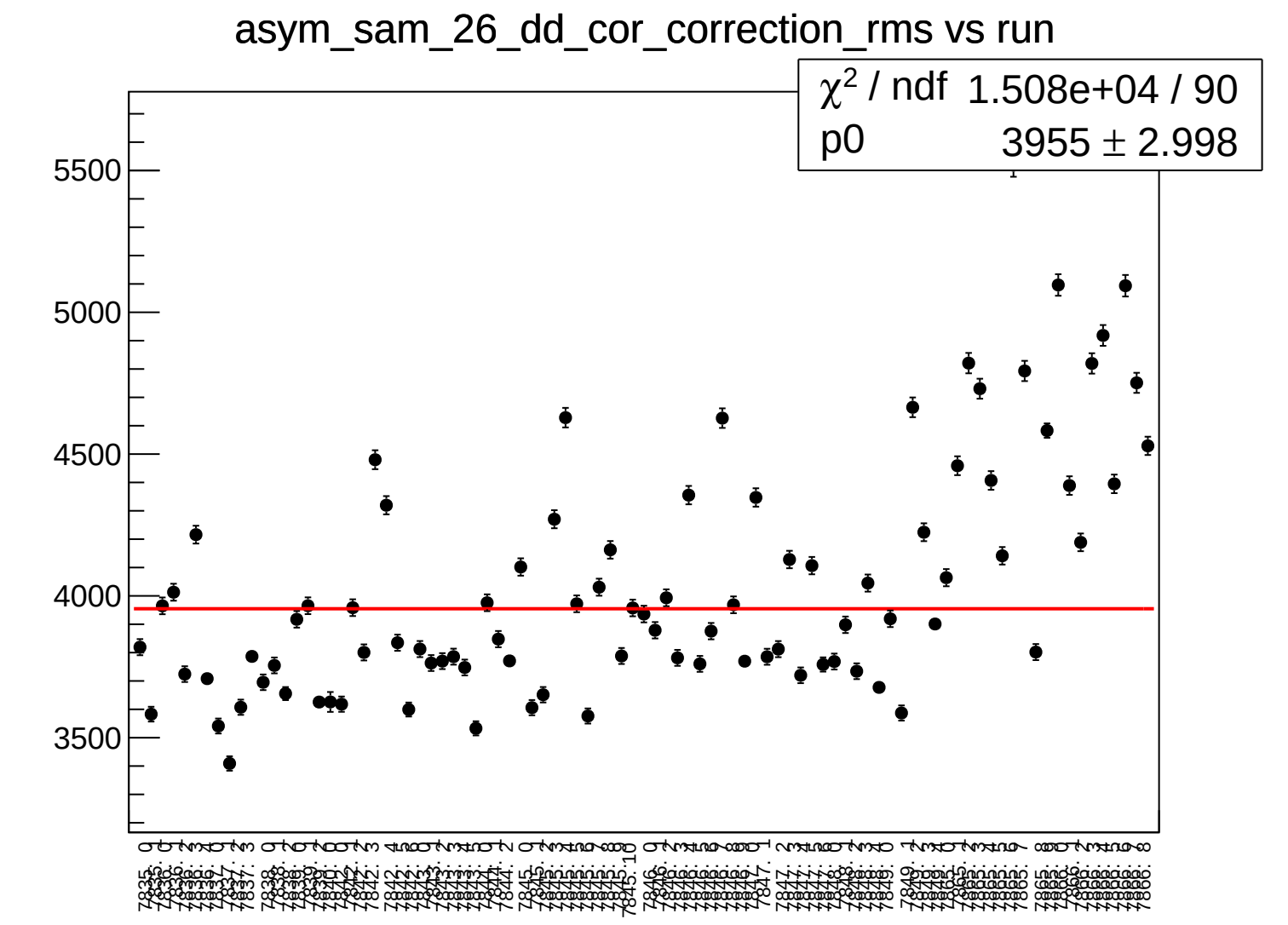

cor_asym_sam_26_dd_mean vs run
χ² / ndf 90.12 / 90
p0 −166.8 ± 180.7
pull
Entries 91
Mean −356.7
Std Dev 0

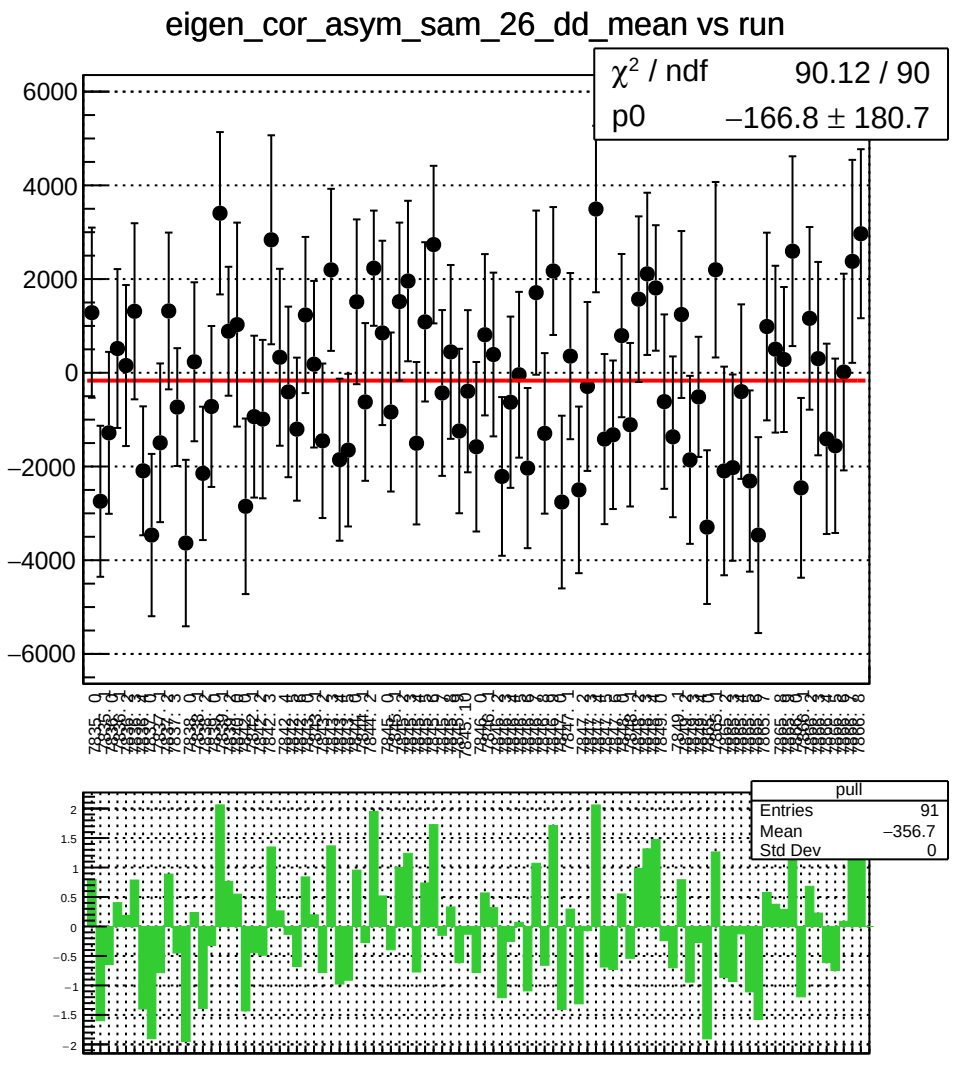

pull1D
Entries 91
Mean −0.004644
Std Dev 0.9952

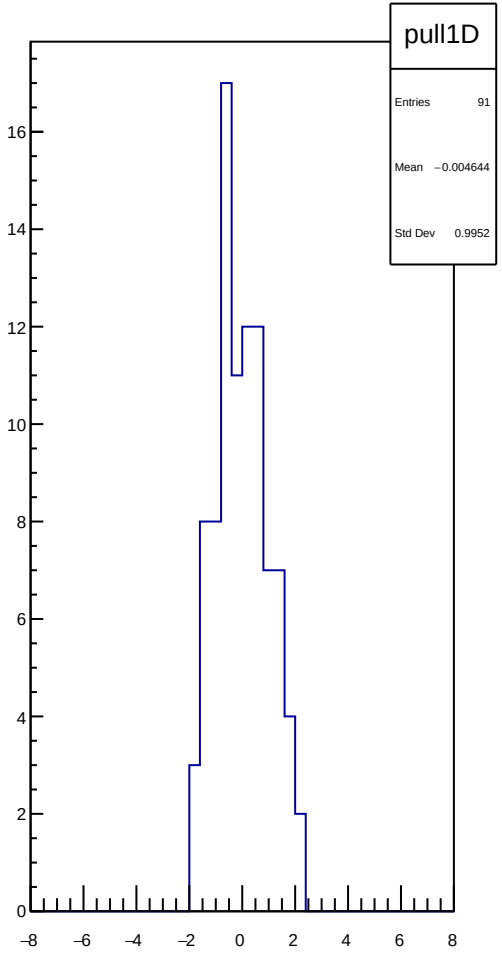

cor_asym_sam_26_dd_rms vs run
χ² / ndf 7817 / 90
p0 168.9 ± 0.1278
210
200
190
180
170
160
150

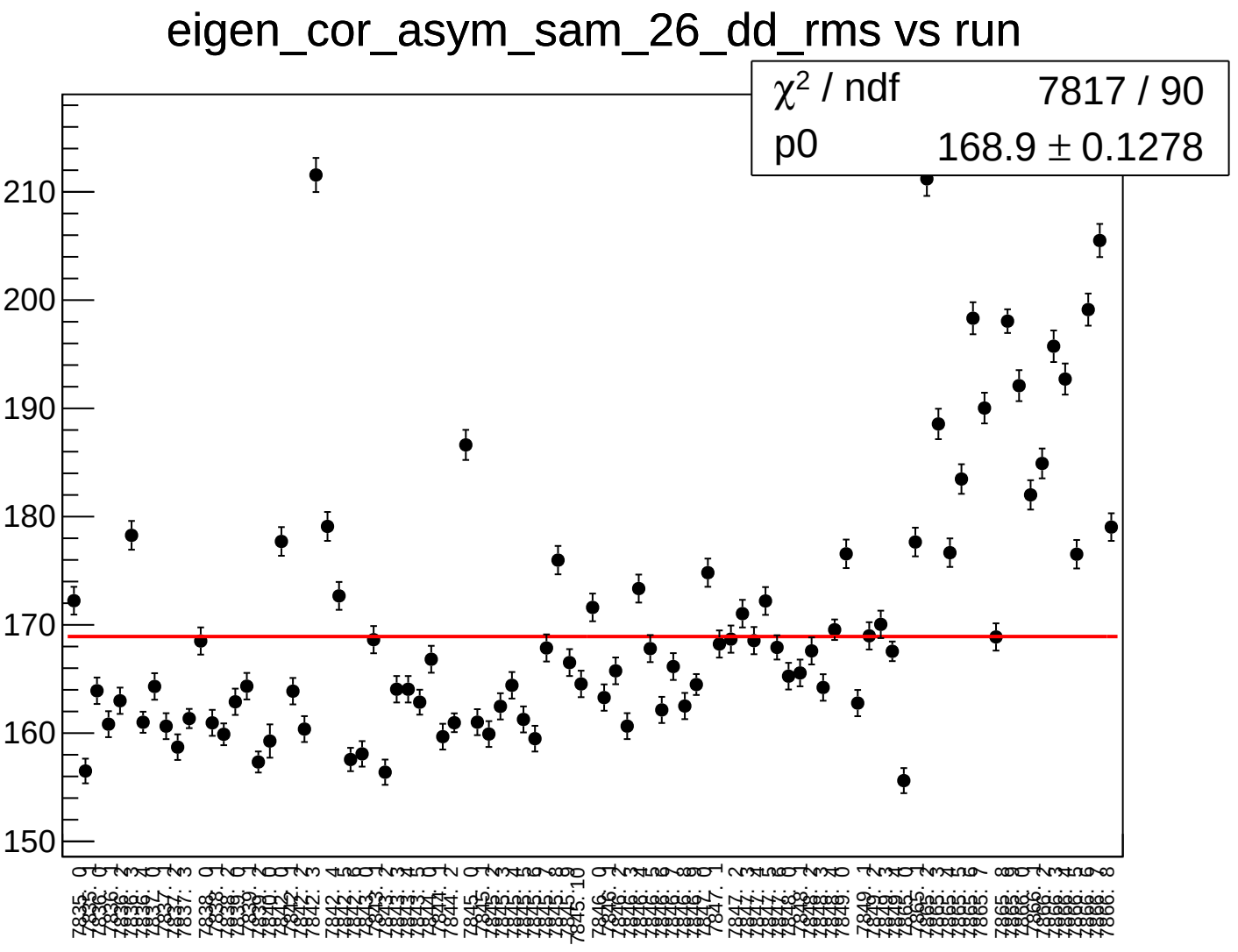

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.09 / 90
p0 780.6 ± 4240
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 41.83
Std Dev 0
2
1
0
−1
−2

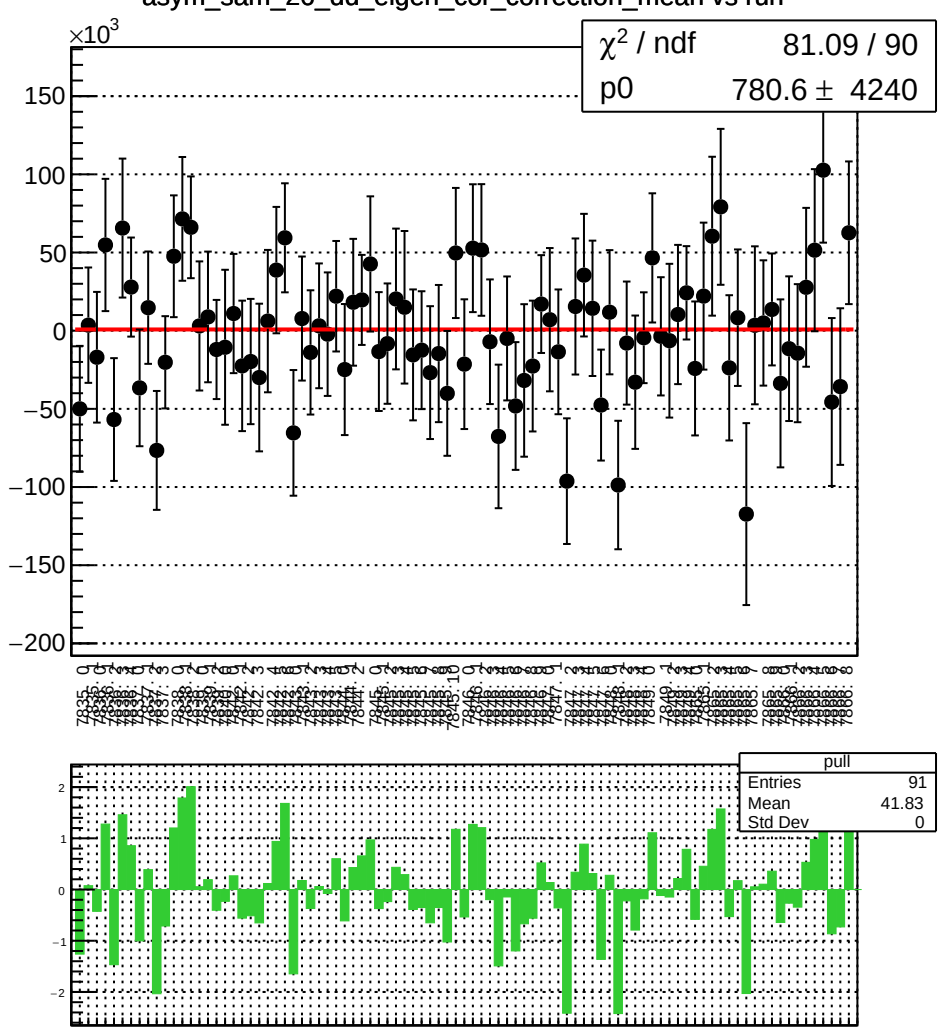

pull1D
Entries 91
Mean −0.01132
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

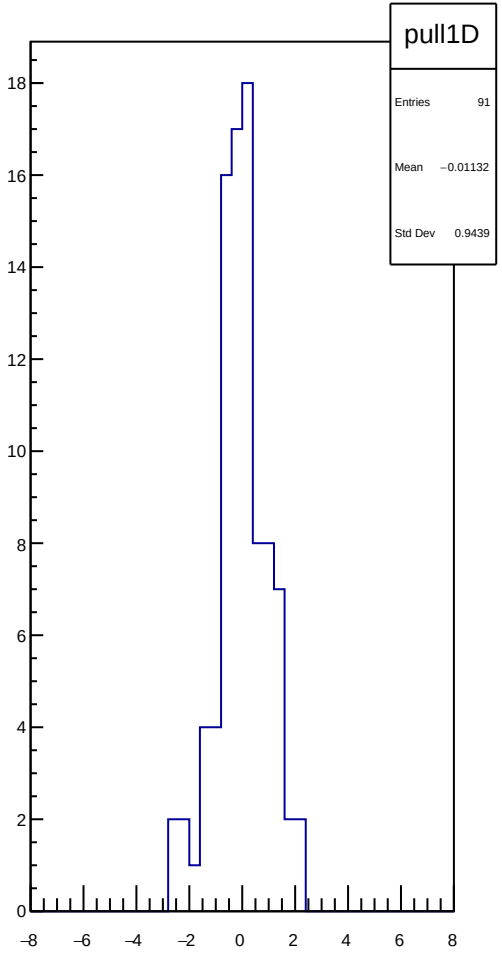

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.508e+04 / 90
p0 3955 ± 2.998
5500
5000
4500
4000
3500

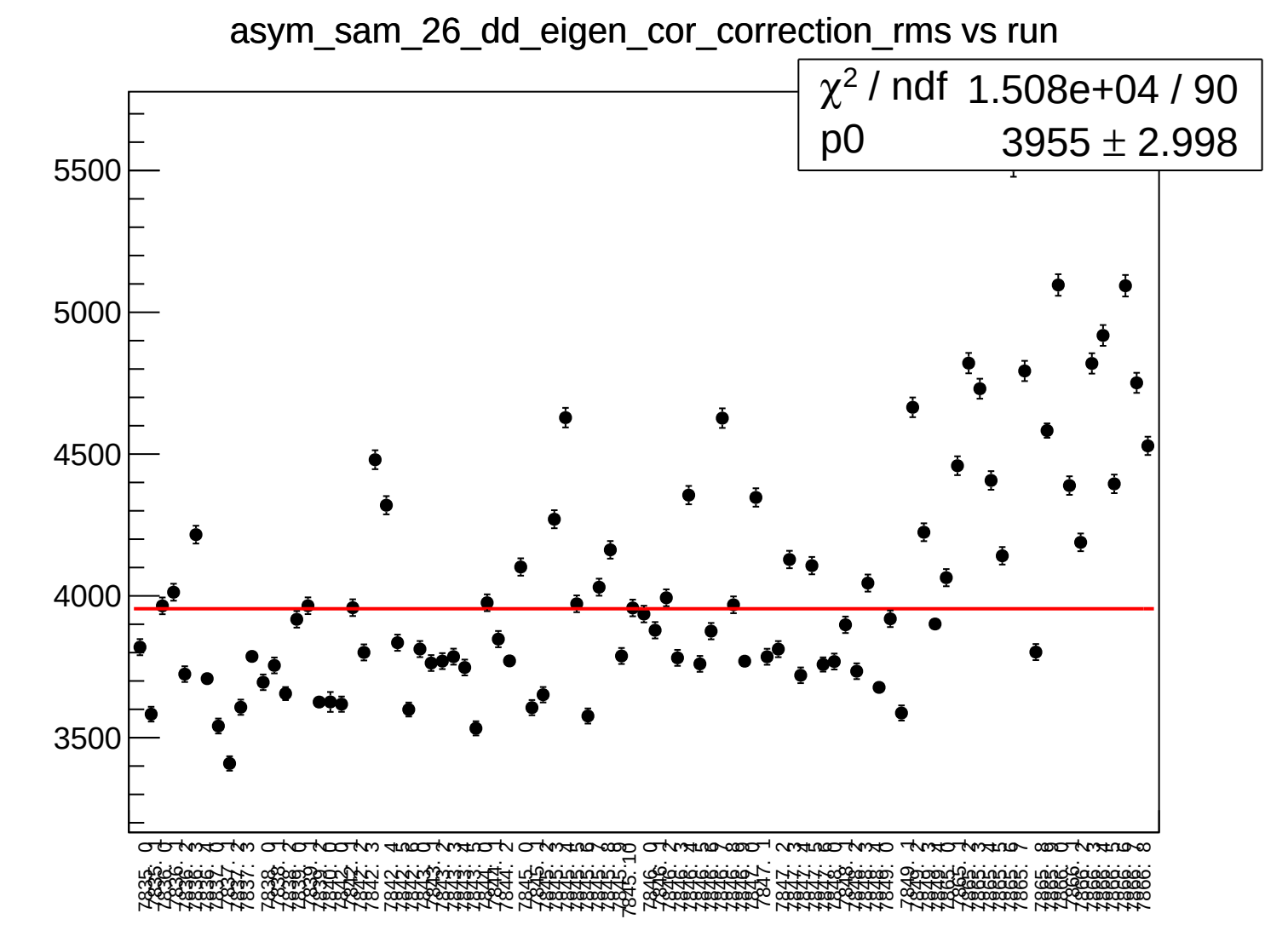

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 90.12 / 90
p0 −166.8 ± 180.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −356.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

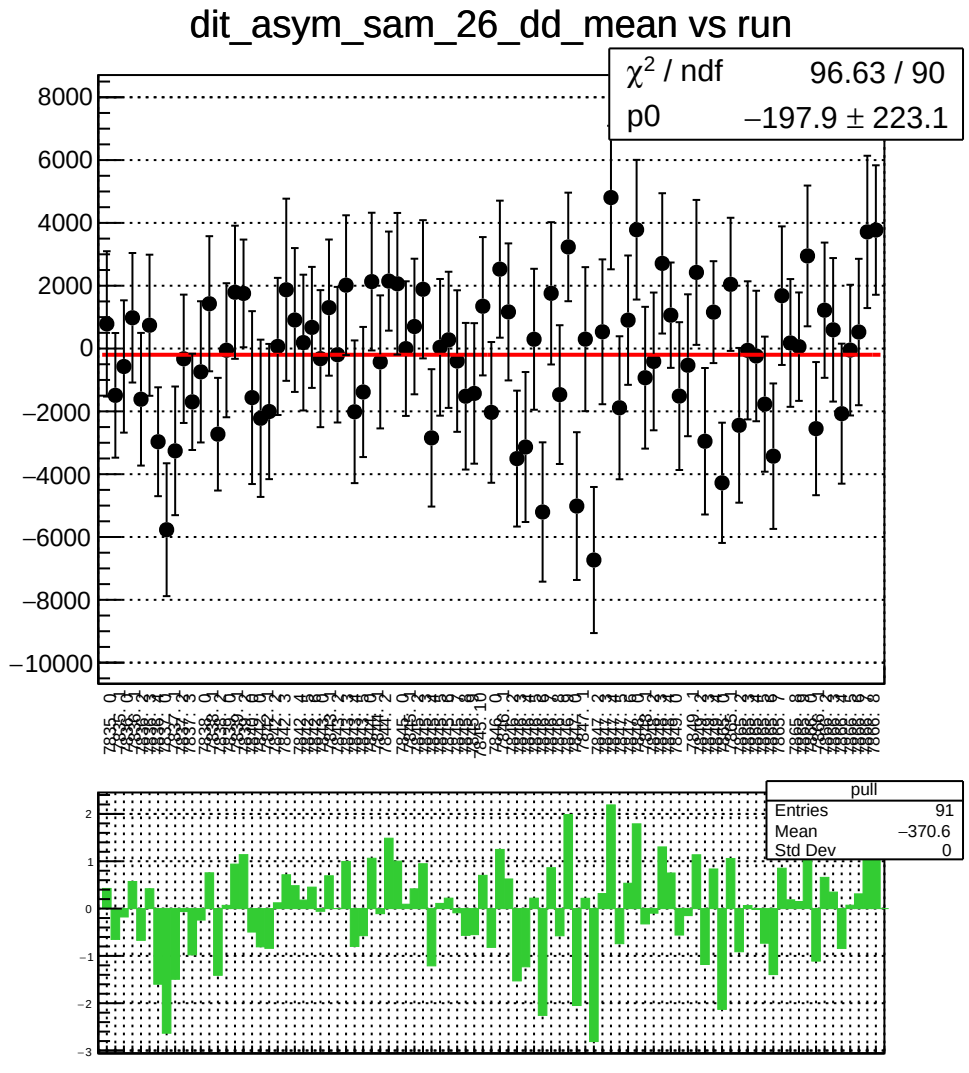

pull1D
Entries 91
Mean −0.004644
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

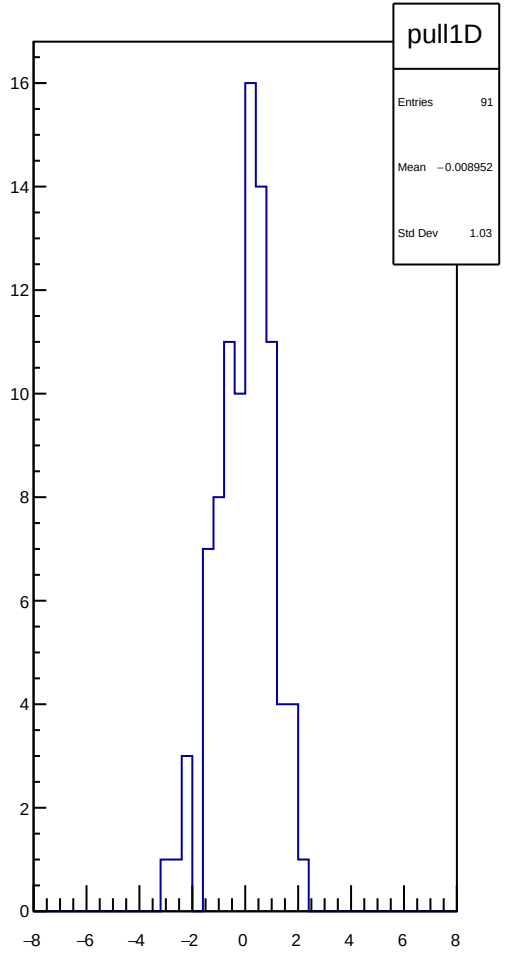

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 7817 / 90
p0 168.9 ± 0.1278
210
200
190
180
170
160
150

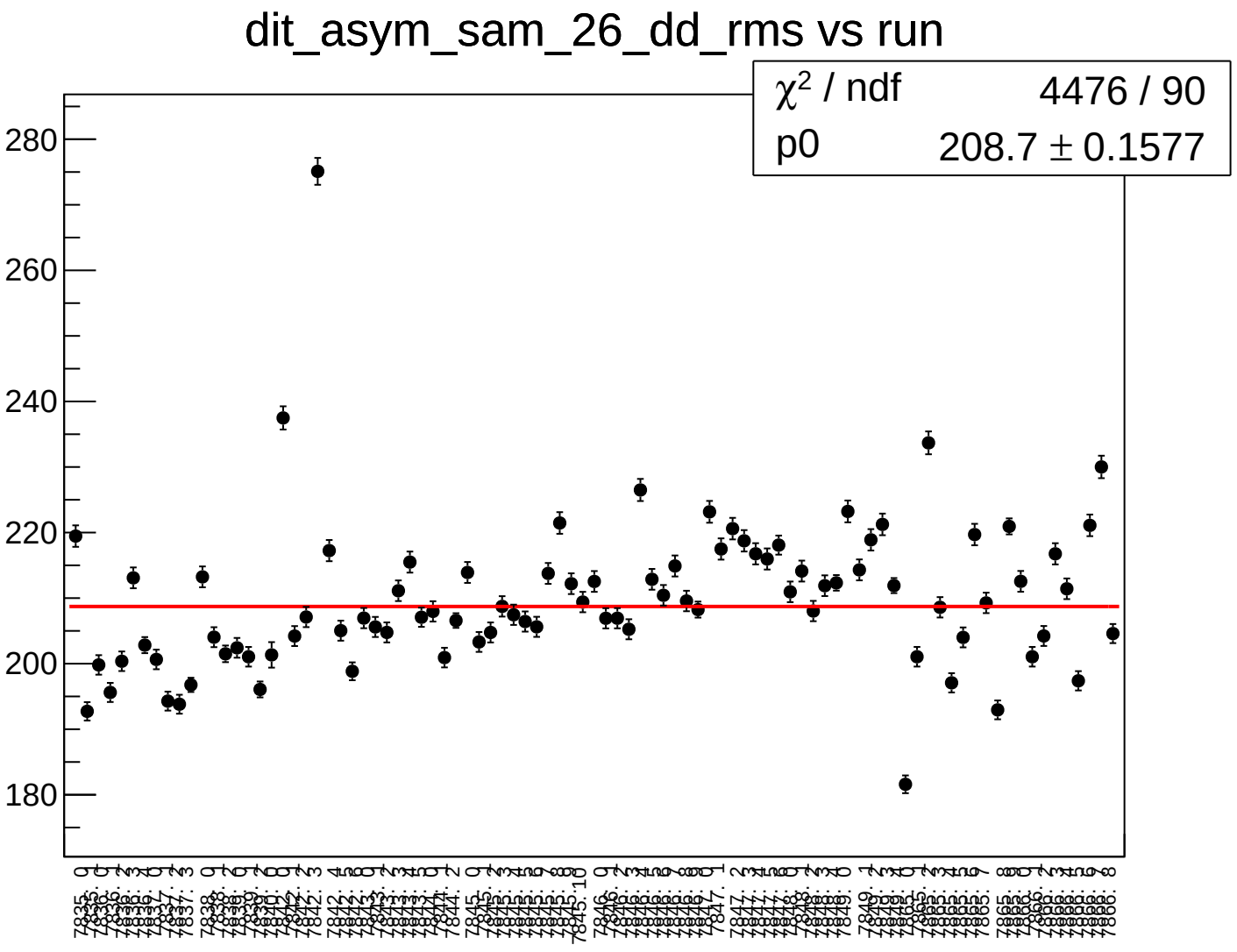

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.09 / 90
p0 780.6 ± 4240
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 41.83
Std Dev 0
2
1
0
−1
−2

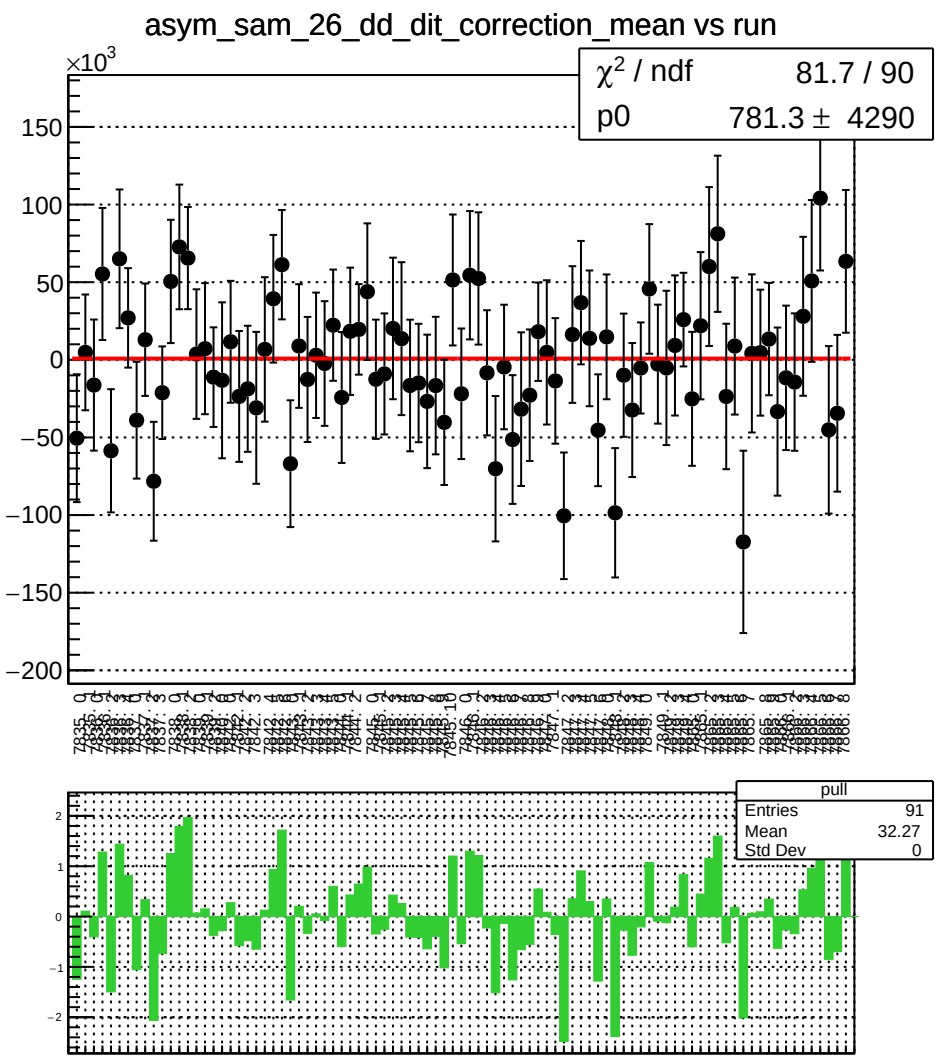

pull1D
Entries 91
Mean −0.01132
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

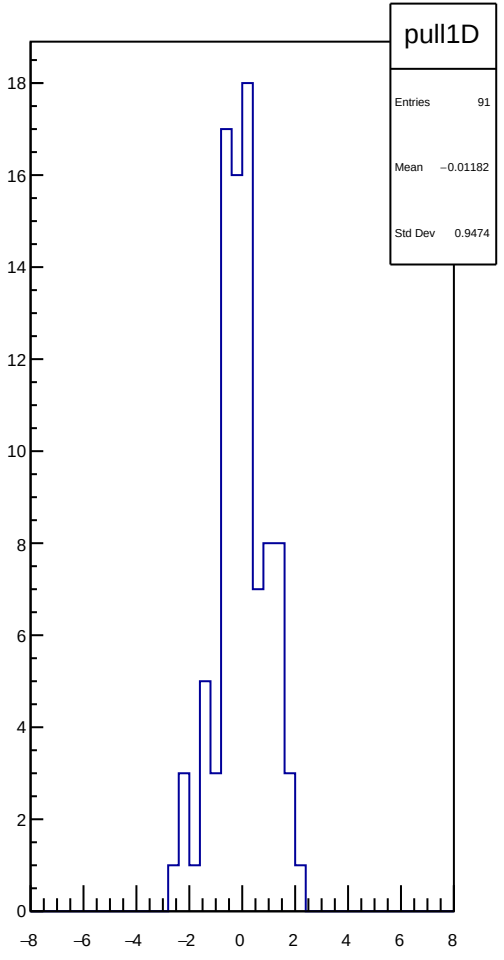

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.508e+04 / 90
p0 3955 ± 2.998
5500
5000
4500
4000
3500

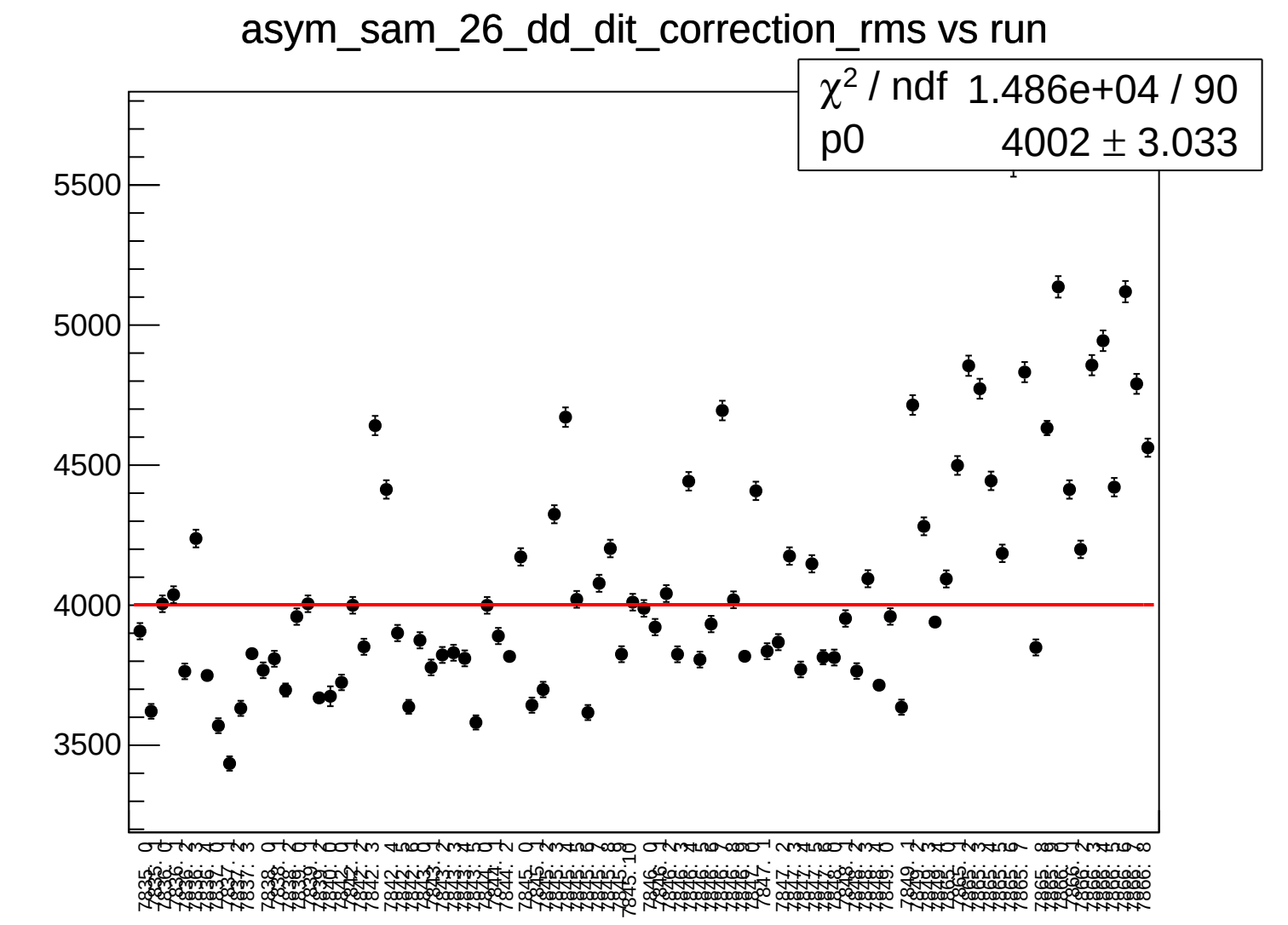

dit_asym_sam_26_dd_mean vs run
χ² / ndf 96.63 / 90
p0 −197.9 ± 223.1
pull
Entries 91
Mean −370.6
Std Dev 0

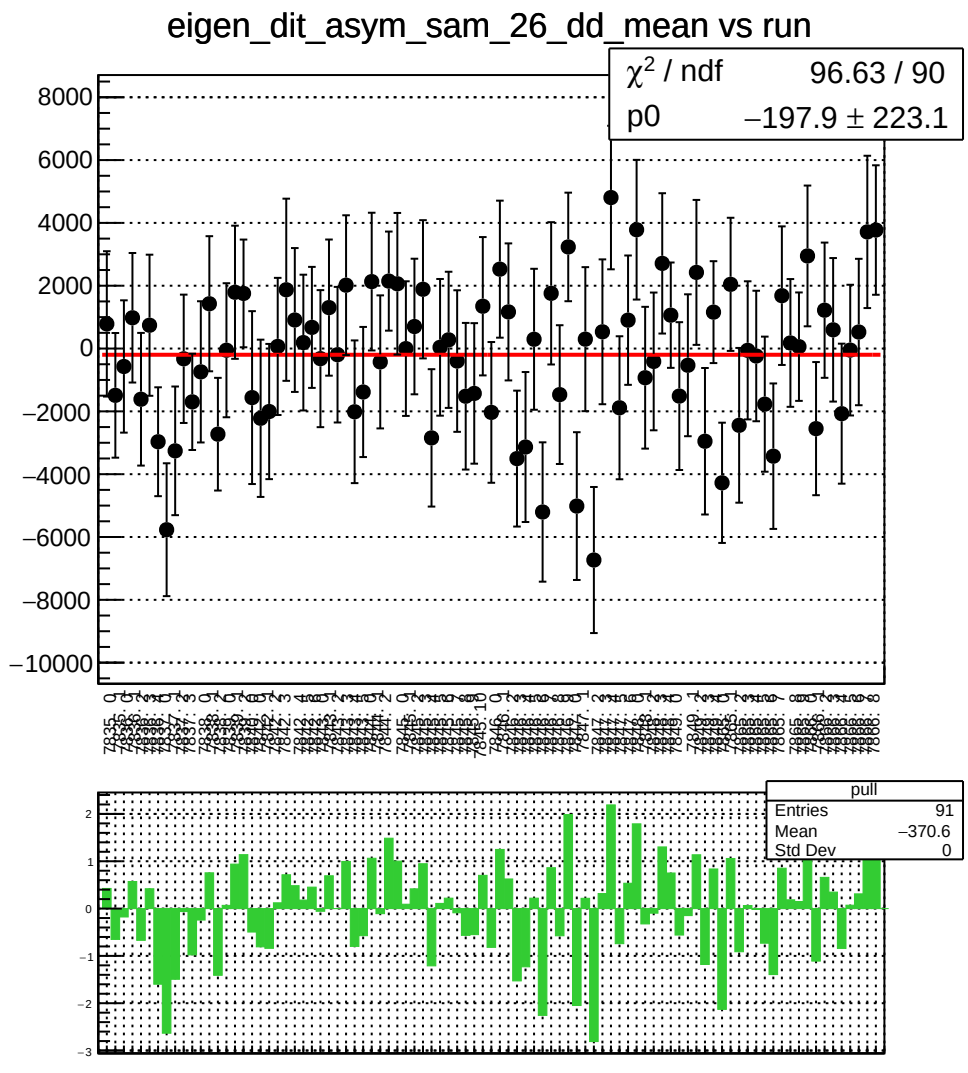

pull1D
Entries 91
Mean −0.008952
Std Dev 1.03

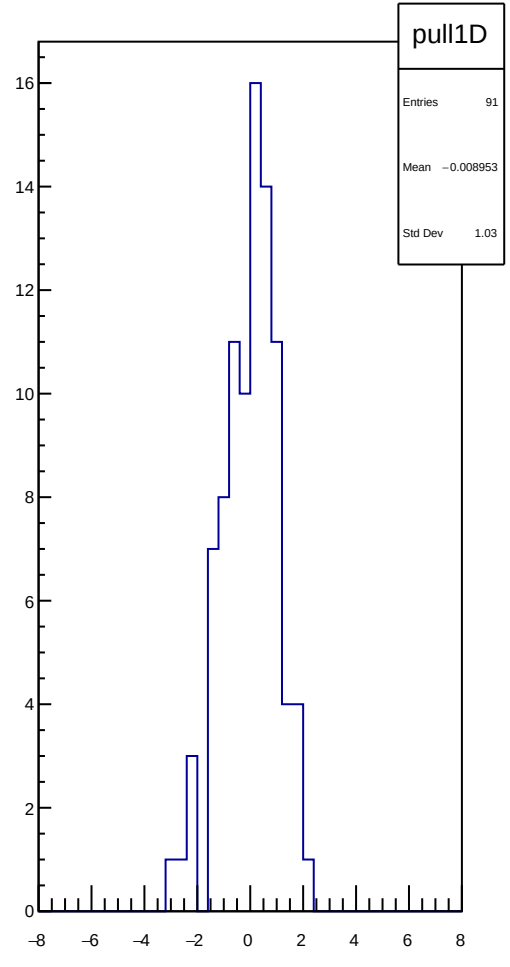

dit_asym_sam_26_dd_rms vs run
χ² / ndf 4476 / 90
p0 208.7 ± 0.1577
280
260
240
220
200
180

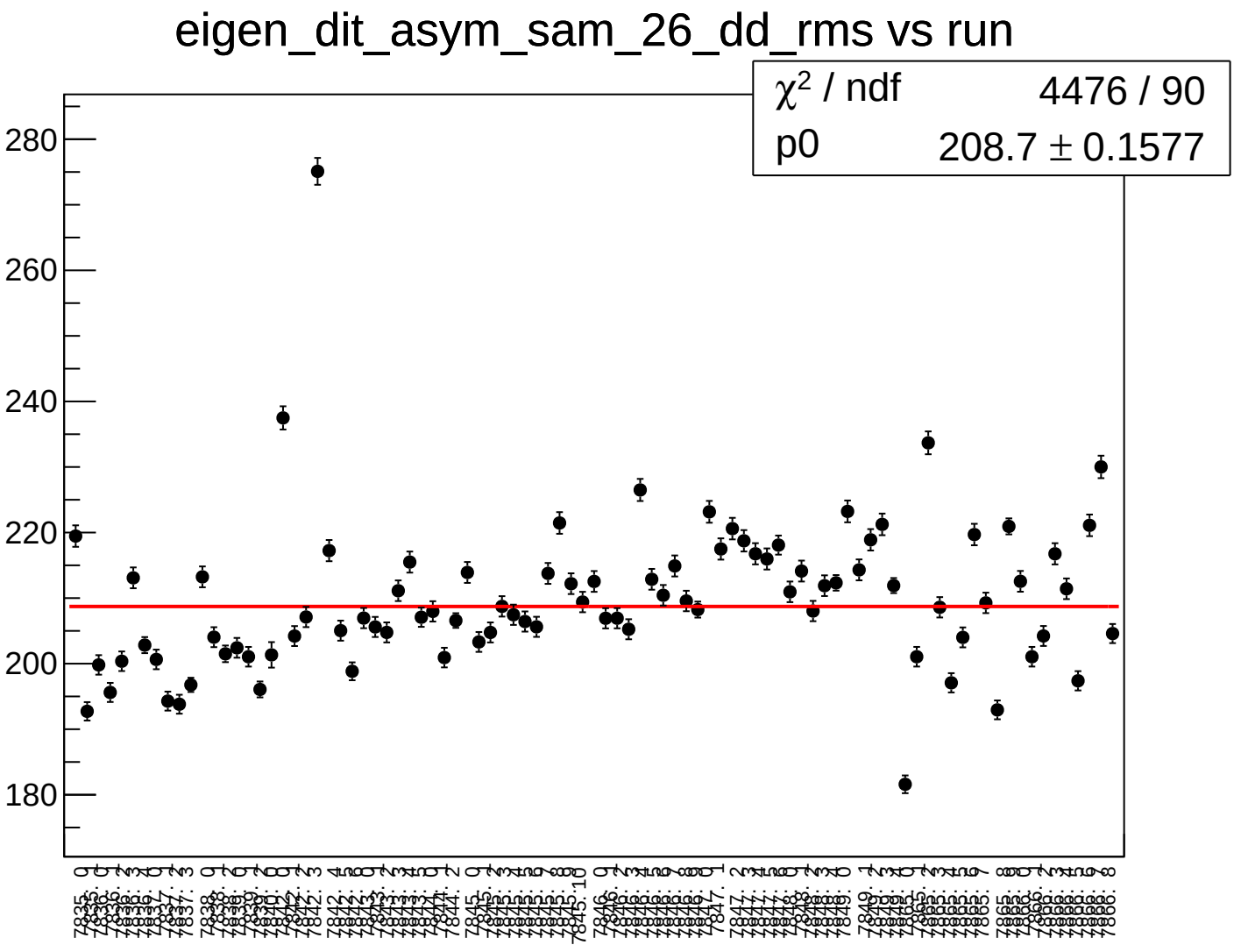

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.7 / 90
p0 781.3 ± 4290
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 32.27
Std Dev 0
2
1
0
−1
−2

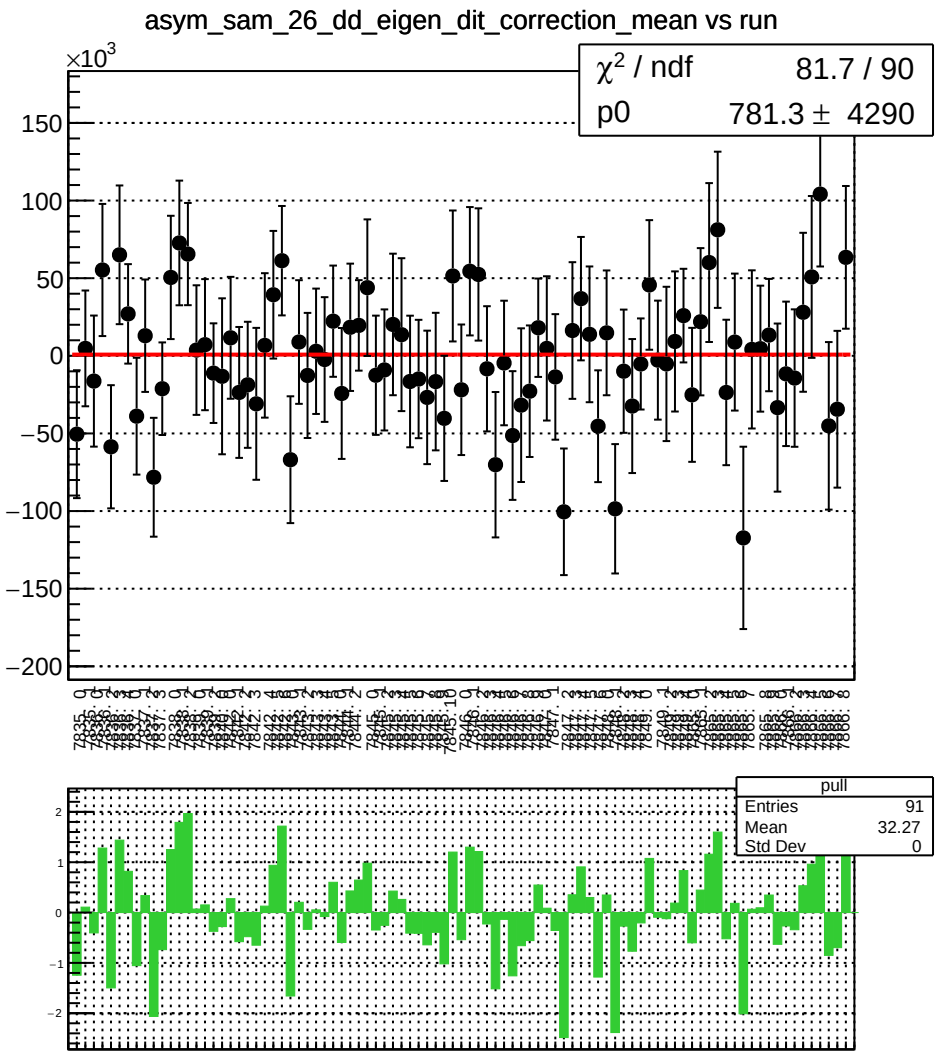

pull1D
Entries 91
Mean −0.01182
Std Dev 0.9474
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

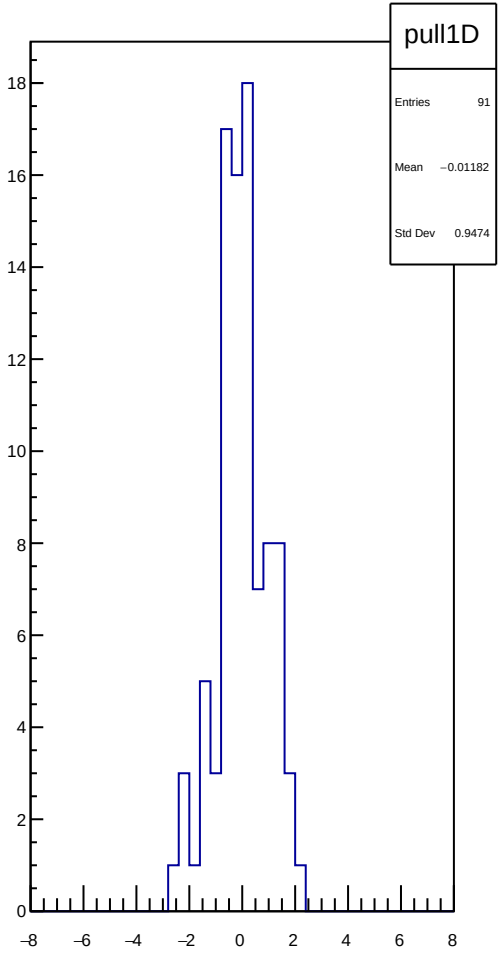

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.486e+04 / 90
p0 4002 ± 3.033
5500
5000
4500
4000
3500

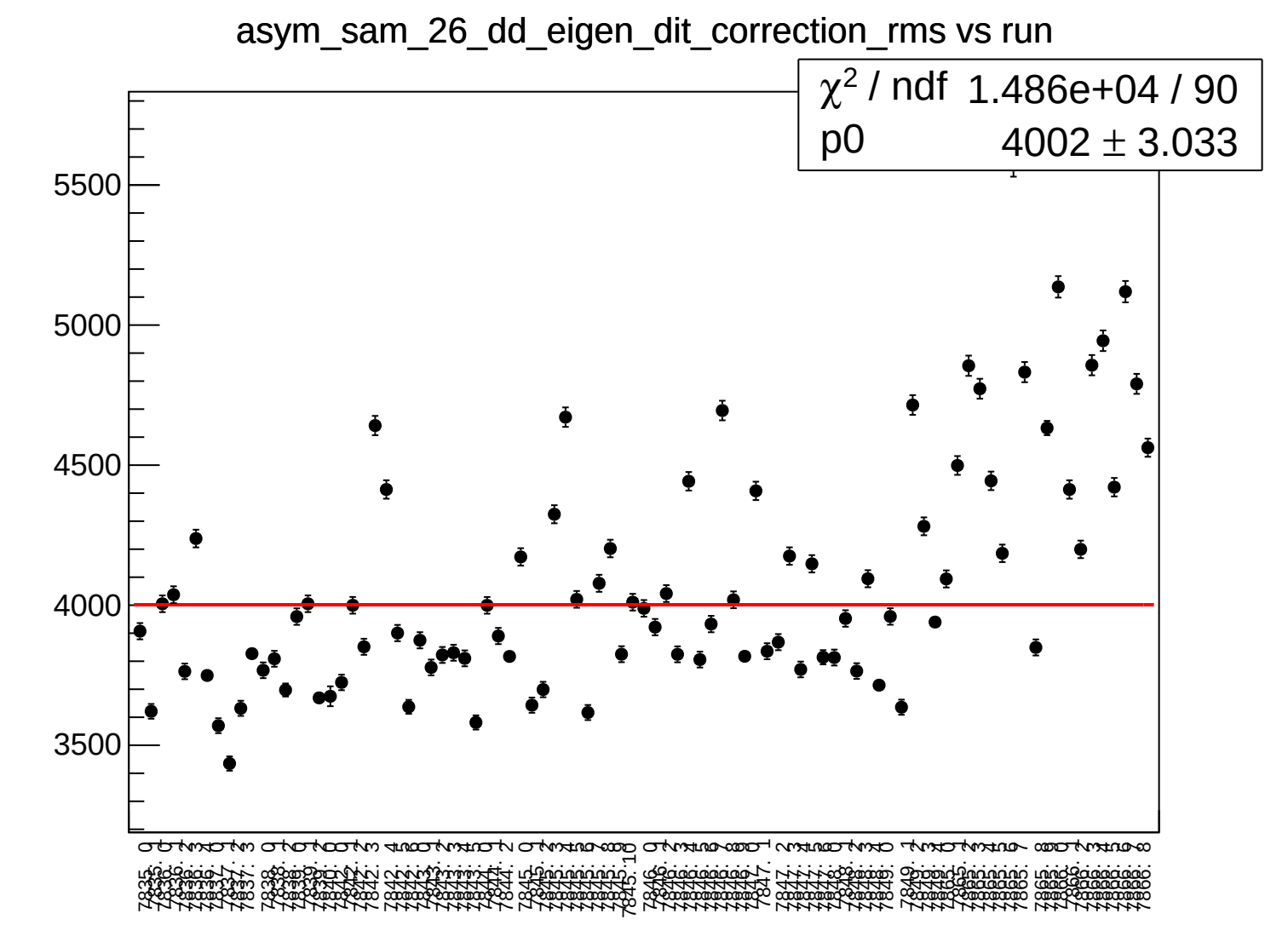

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 96.63 / 90
p0 −197.9 ± 223.1
pull
Entries 91
Mean −370.6
Std Dev 0

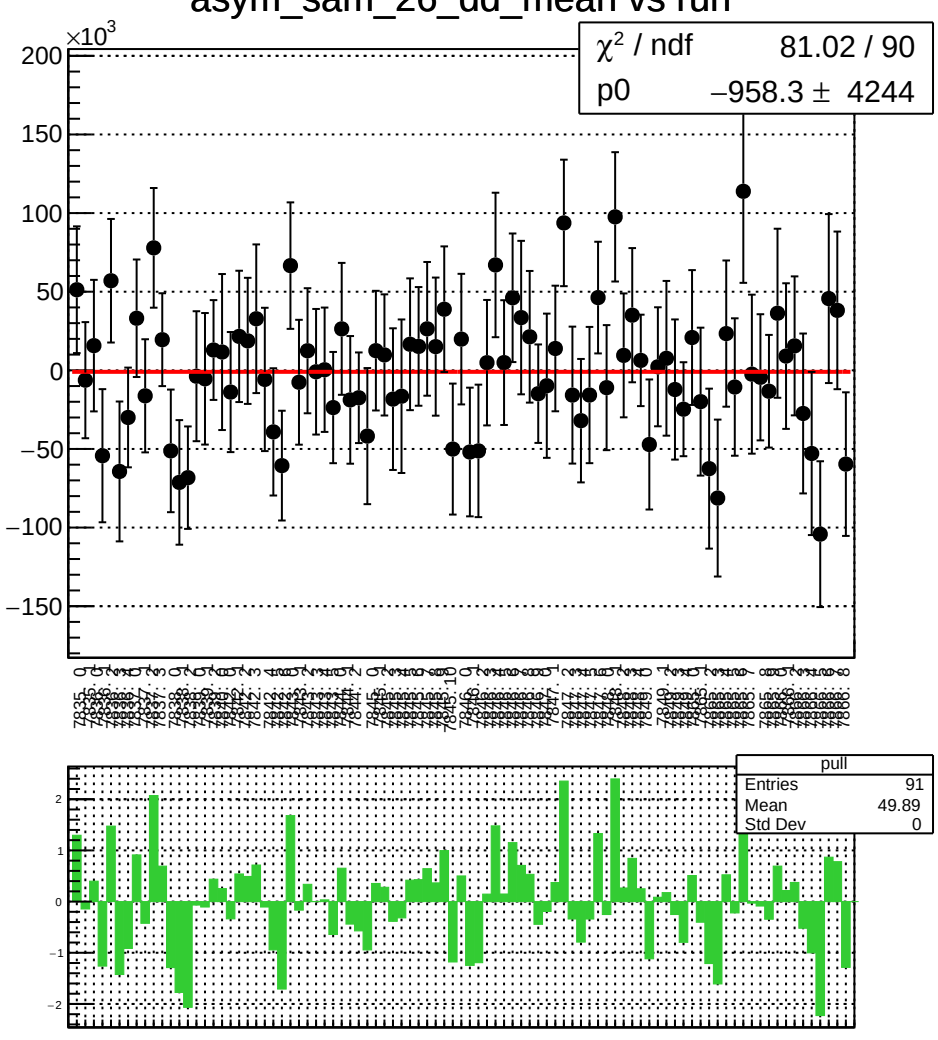

pull1D
Entries 91
Mean −0.008953
Std Dev 1.03

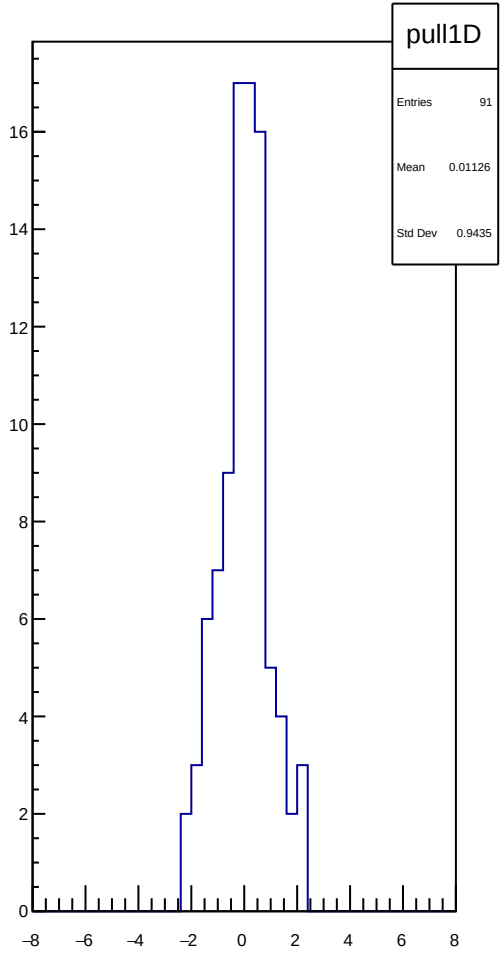

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 4476 / 90
p0 208.7 ± 0.1577
280
260
240
220
200
180

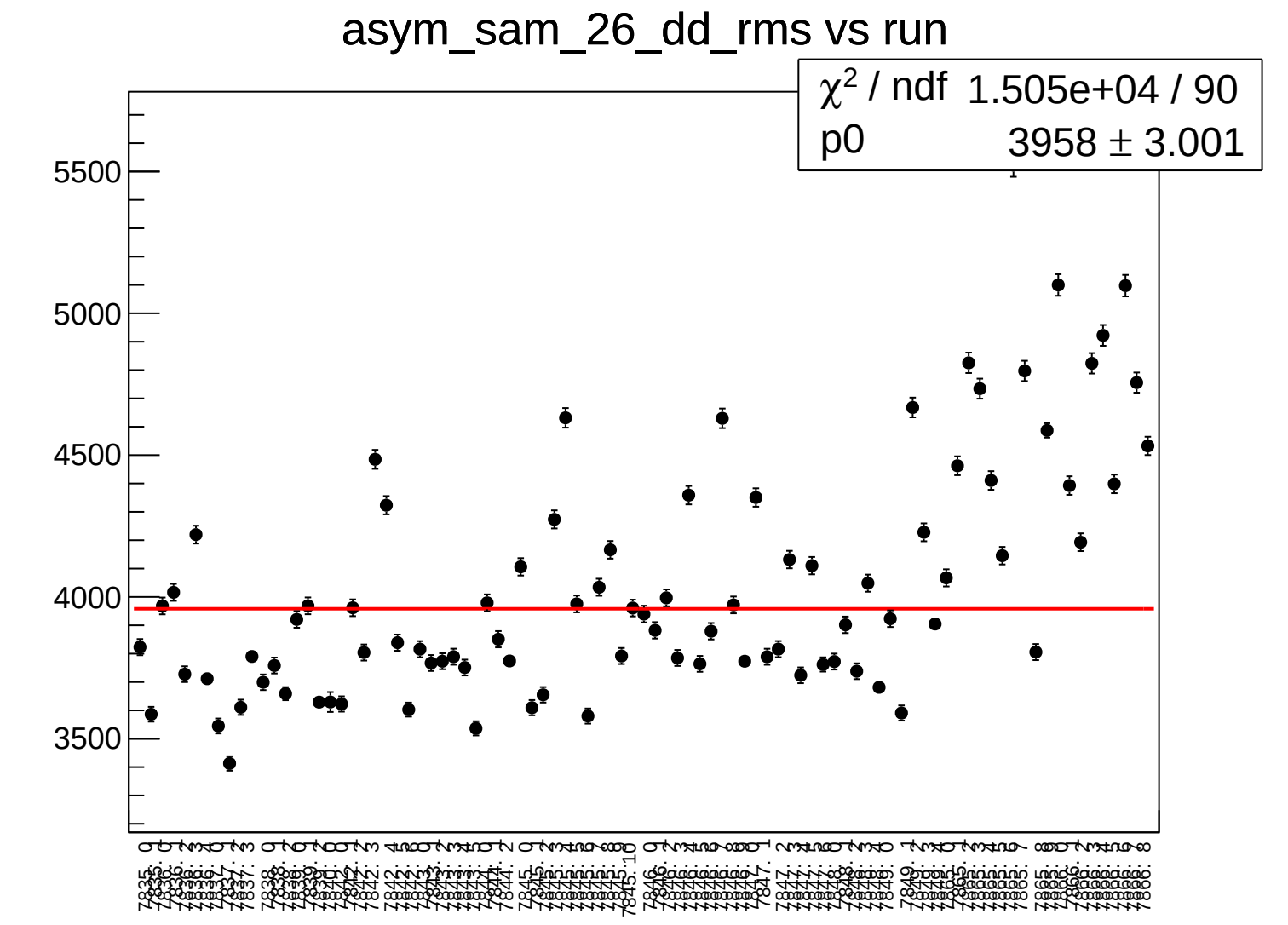

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.7 / 90
p0 781.3 ± 4290
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 32.27
Std Dev 0
2
1
0
−1
−2

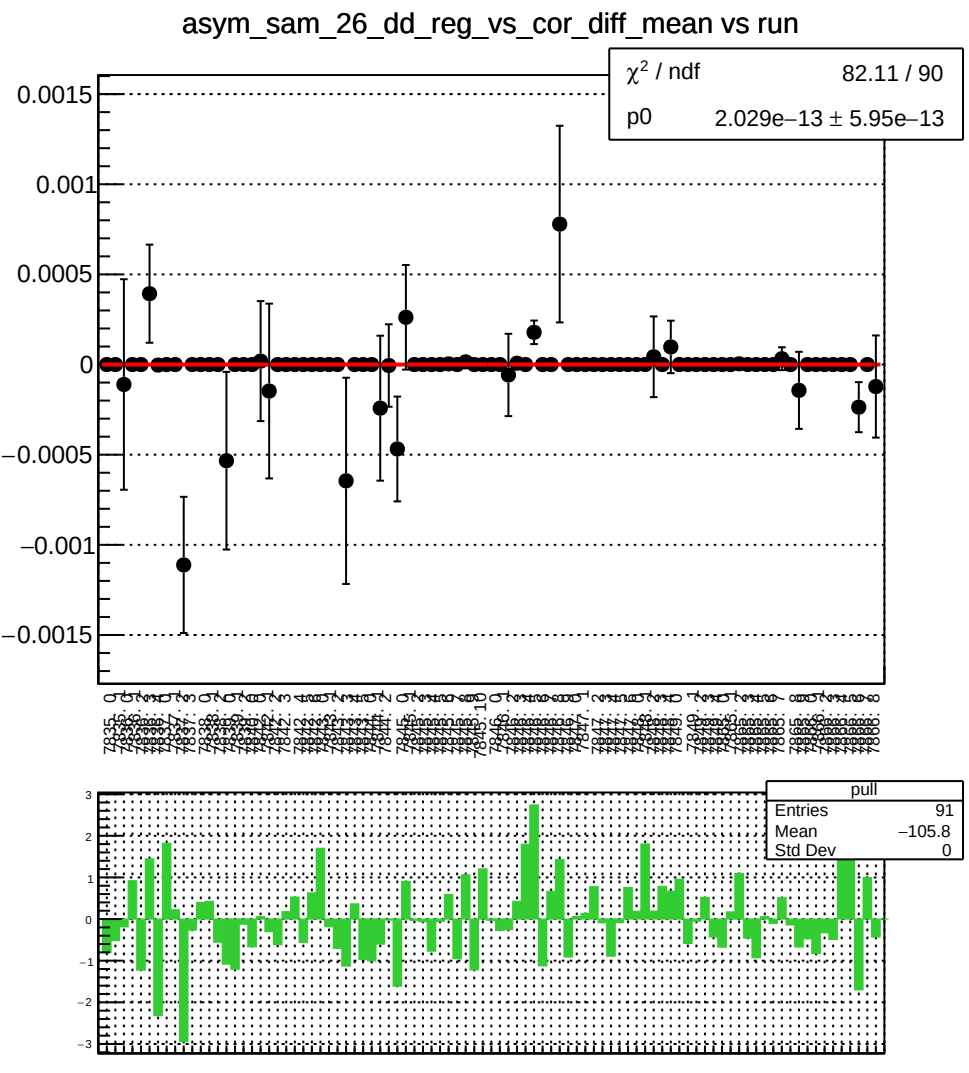

pull1D
Entries 91
Mean −0.01182
Std Dev 0.9474
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

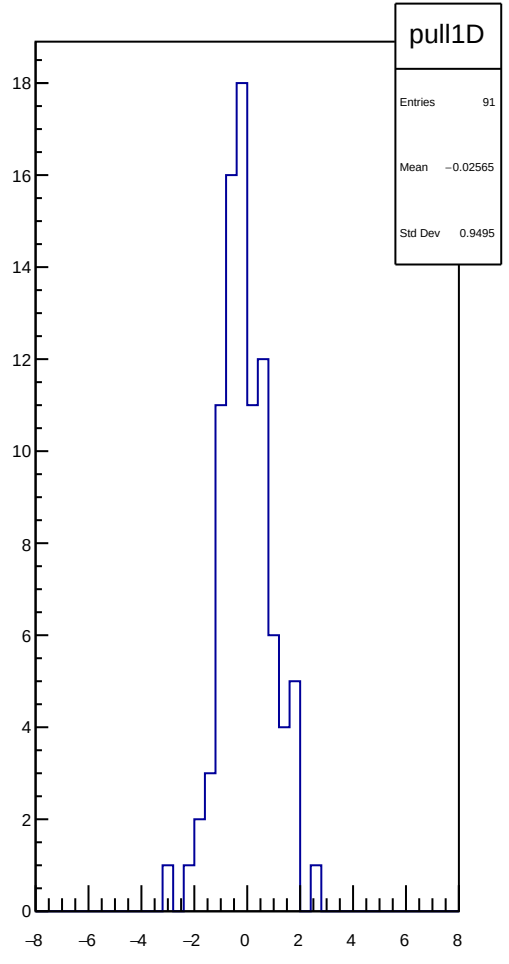

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.486e+04 / 90
p0 4002 ± 3.033
5500
5000
4500
4000
3500

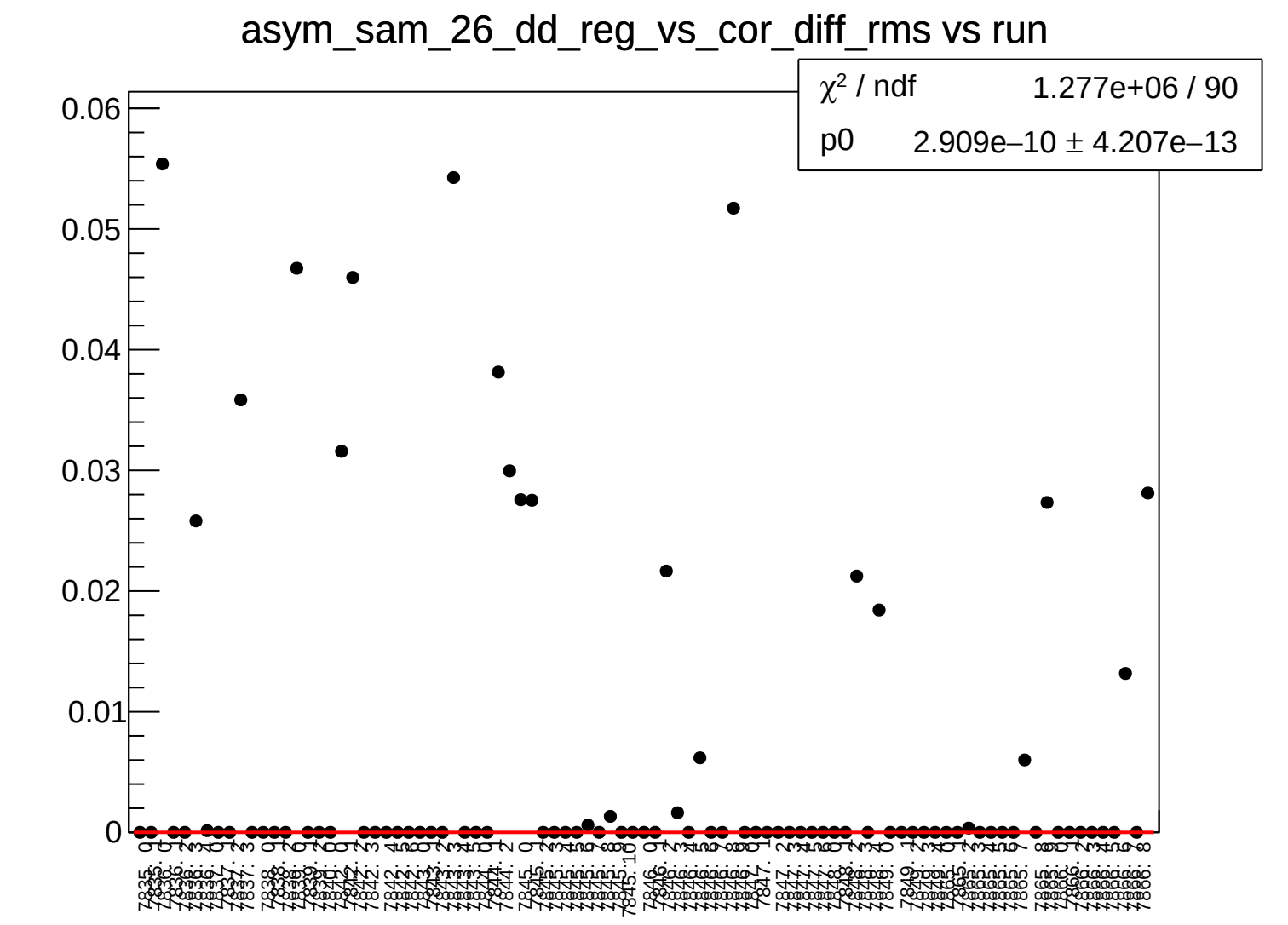

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 81.02 / 90
p0 −958.3 ± 4244
pull
Entries 91
Mean 49.89
Std Dev 0

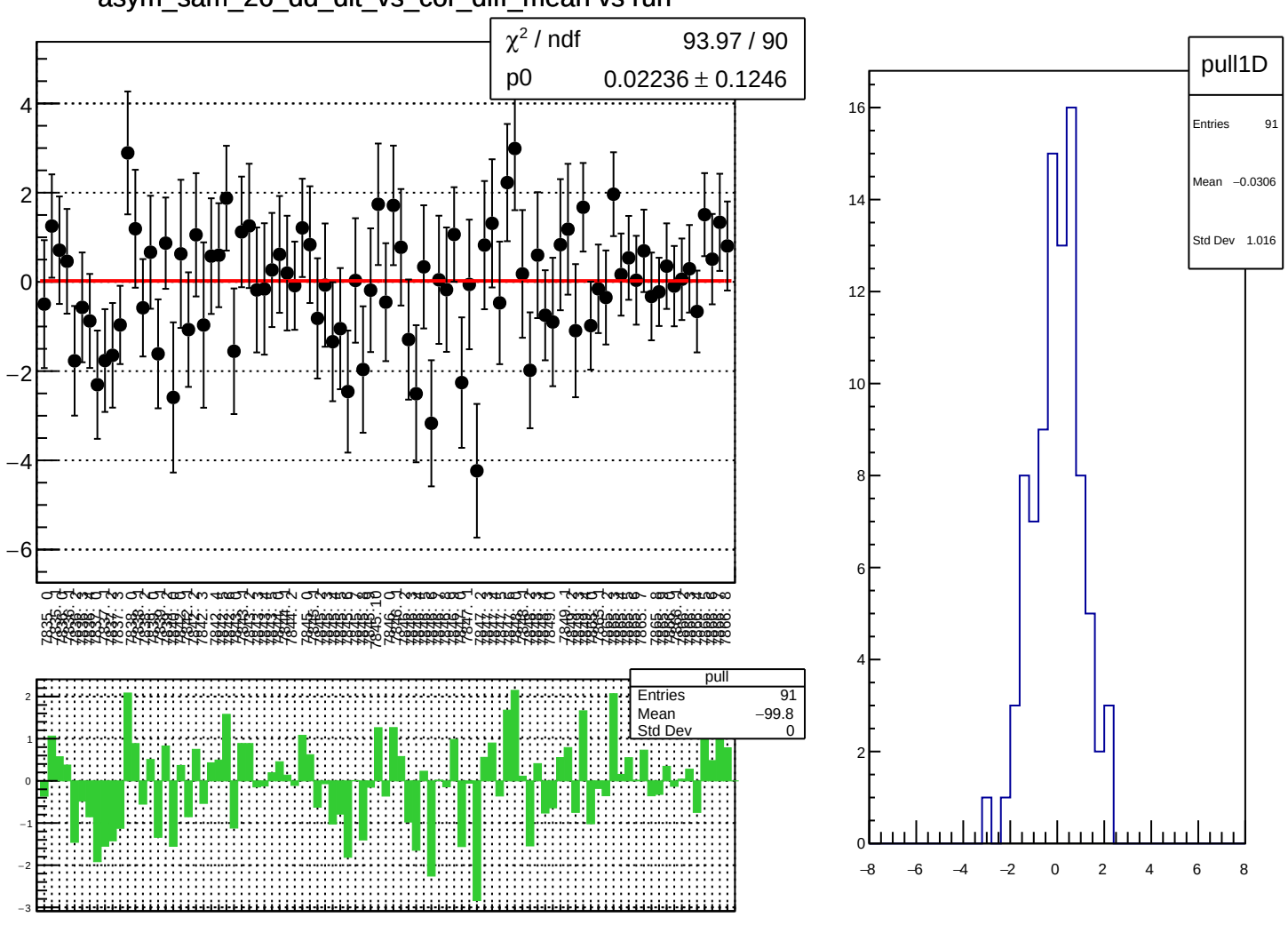

pull1D
Entries 91
Mean 0.01126
Std Dev 0.9435

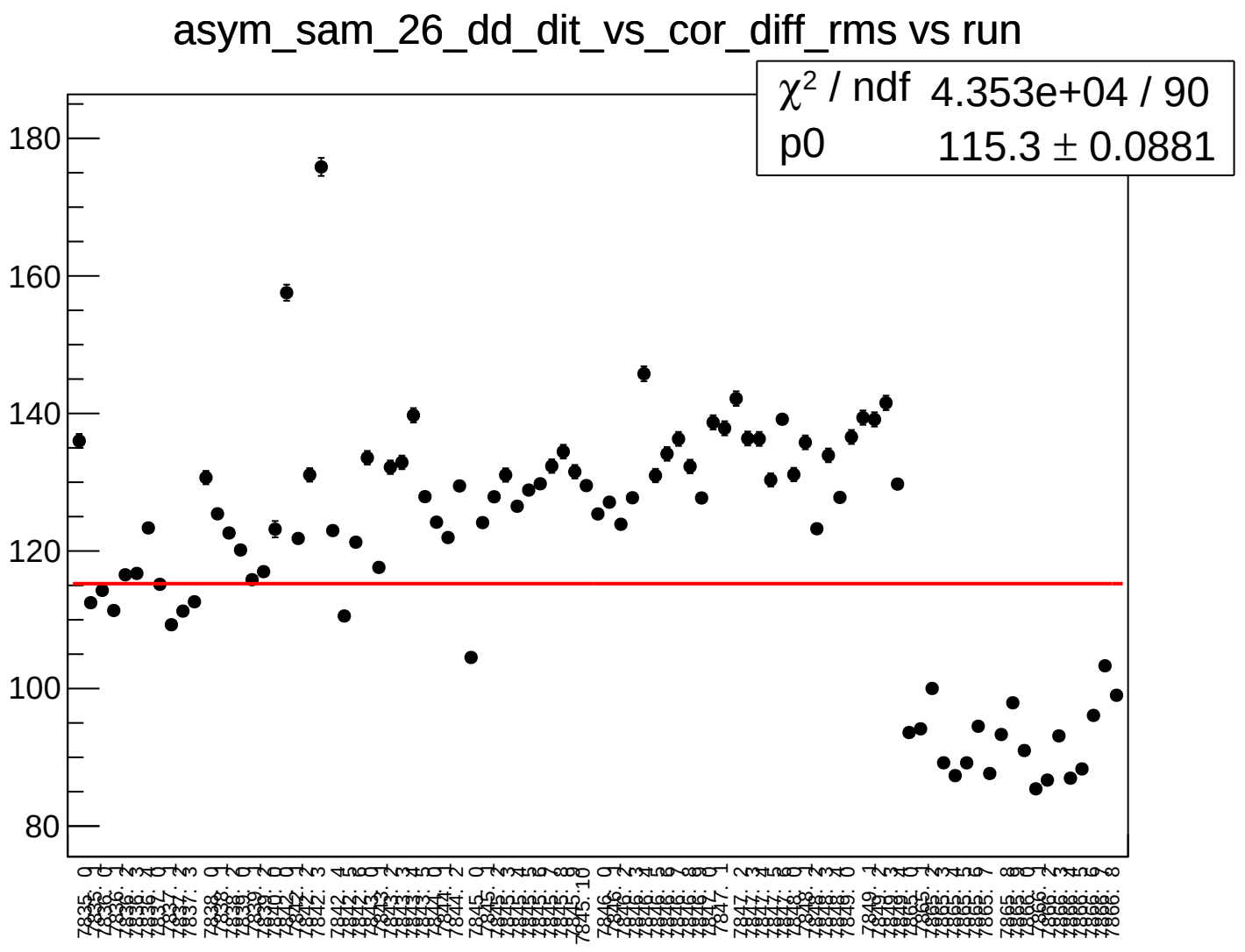

asym_sam_26_dd_rms vs run
χ² / ndf 1.505e+04 / 90
p0 3958 ± 3.001
5500
5000
4500
4000
3500

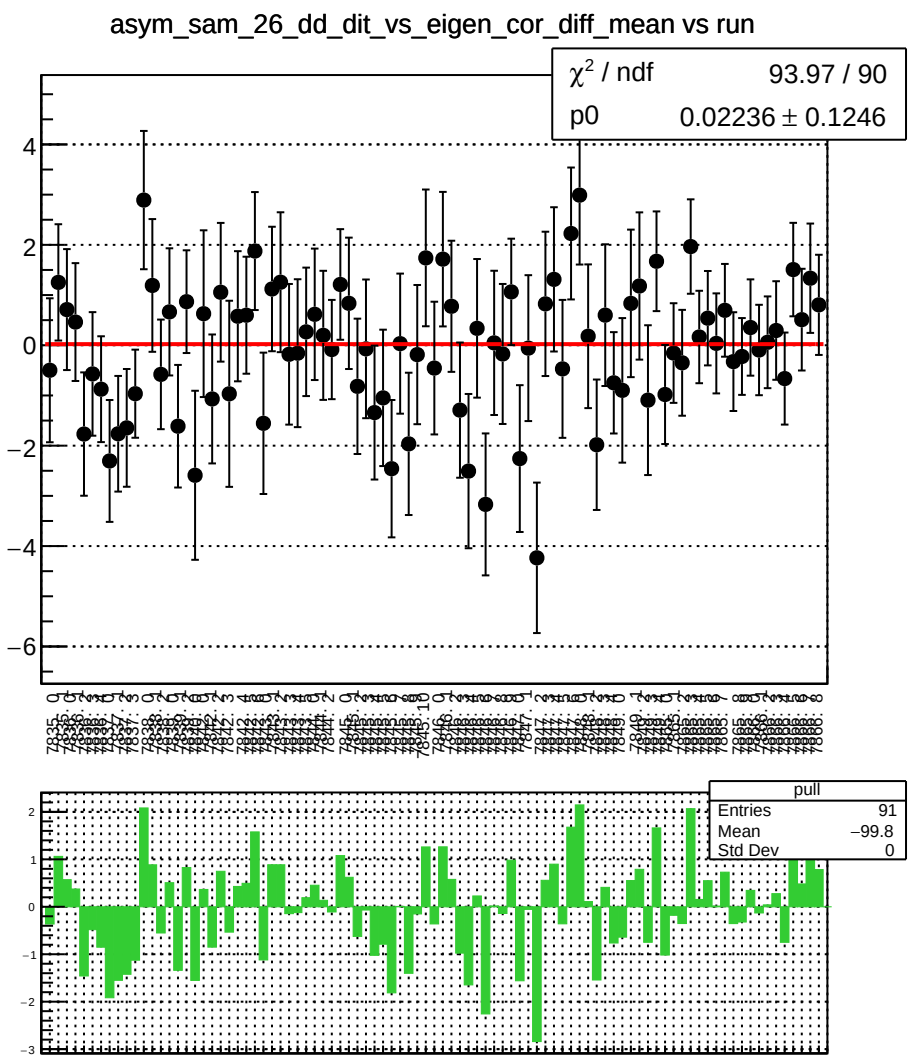

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.11 / 90
p0 2.029e−13 ± 5.95e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean −105.8
Std Dev 0
3
2
1
0
−1
−2
−3

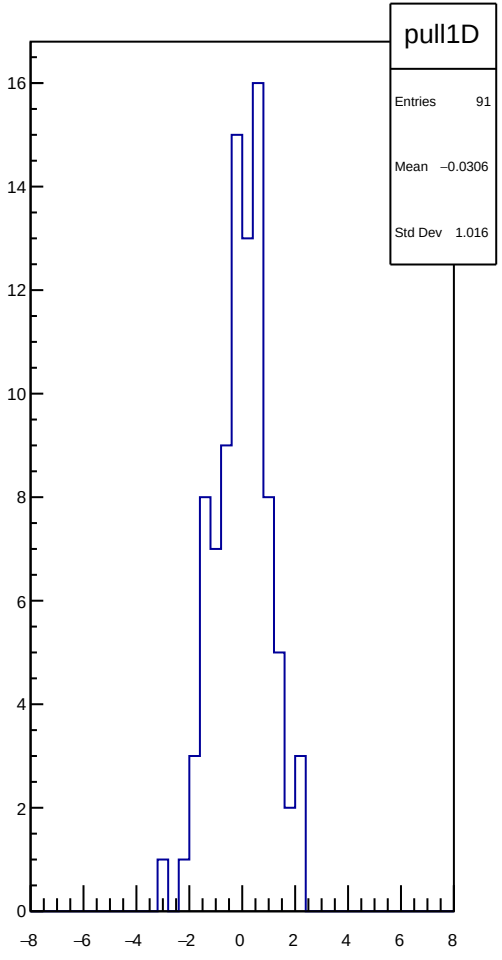

pull1D
Entries 91
Mean −0.02565
Std Dev 0.9495
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

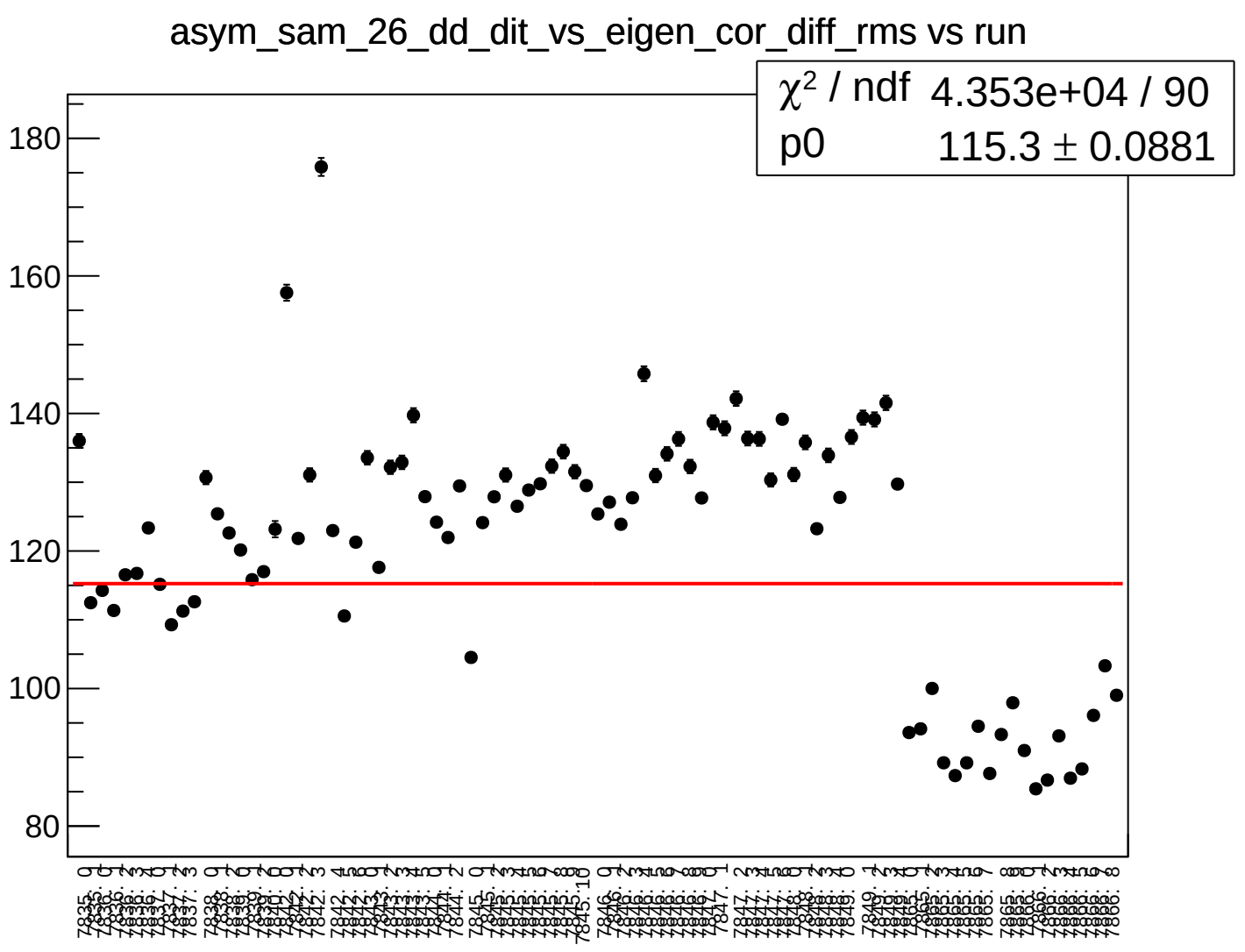

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.277e+06 / 90
p0 2.909e−10 ± 4.207e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

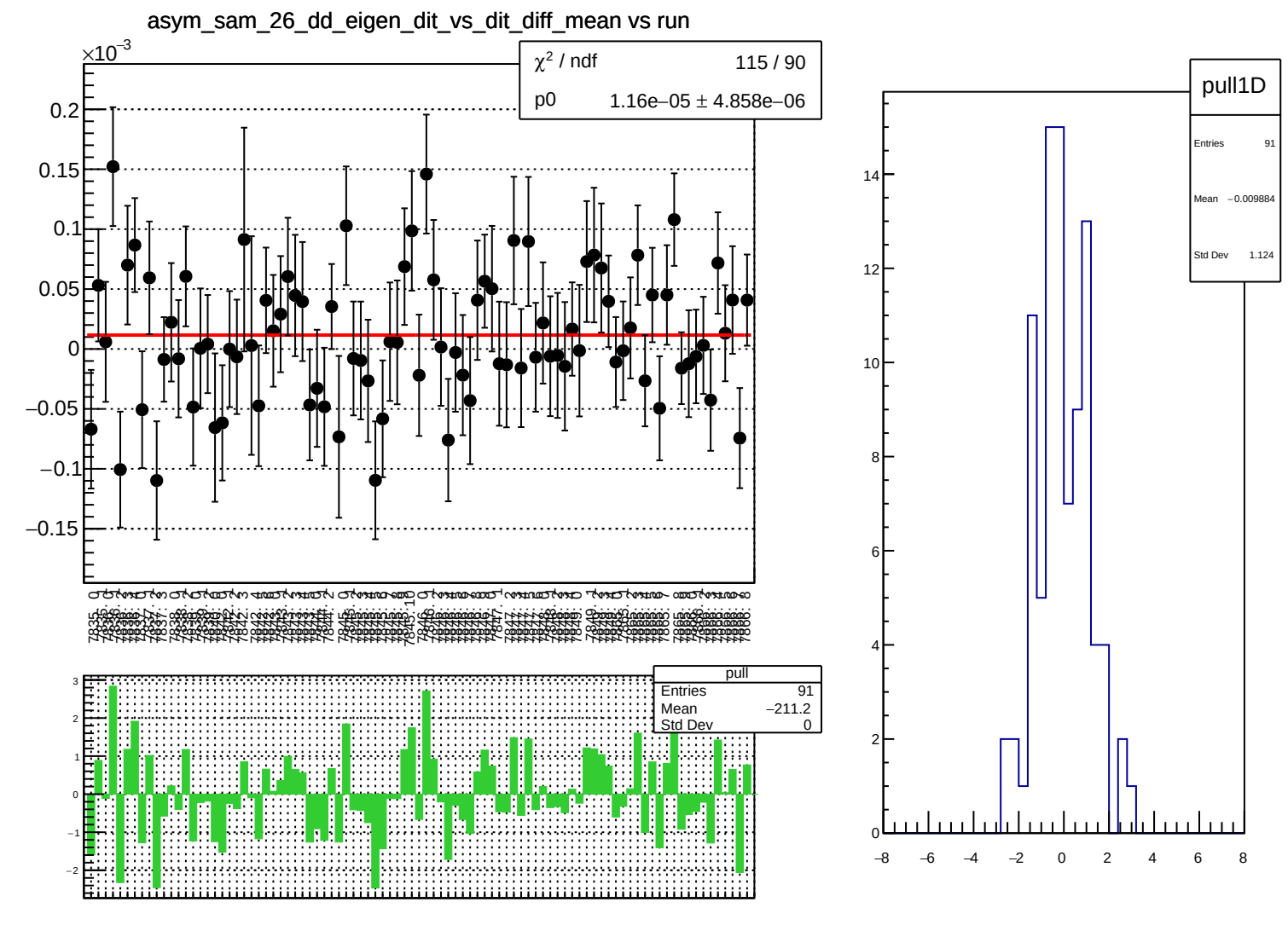

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.97 / 90
p0 0.02236 ± 0.1246
pull
Entries 91
Mean −99.8
Std Dev 0
pull1D
Entries 91
Mean −0.0306
Std Dev 1.016

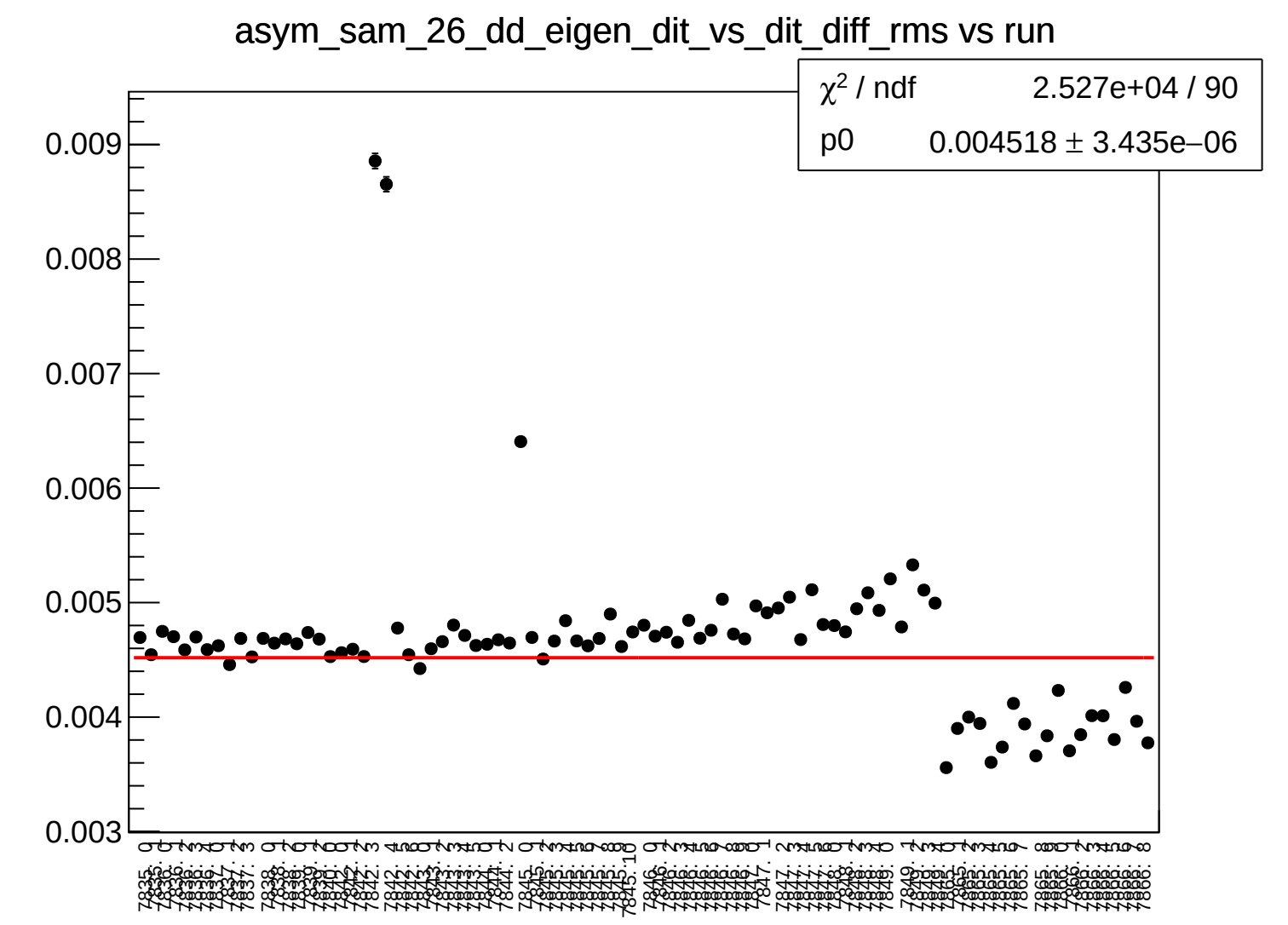

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.353e+04 / 90
p0 115.3 ± 0.0881
180
160
140
120
100
80

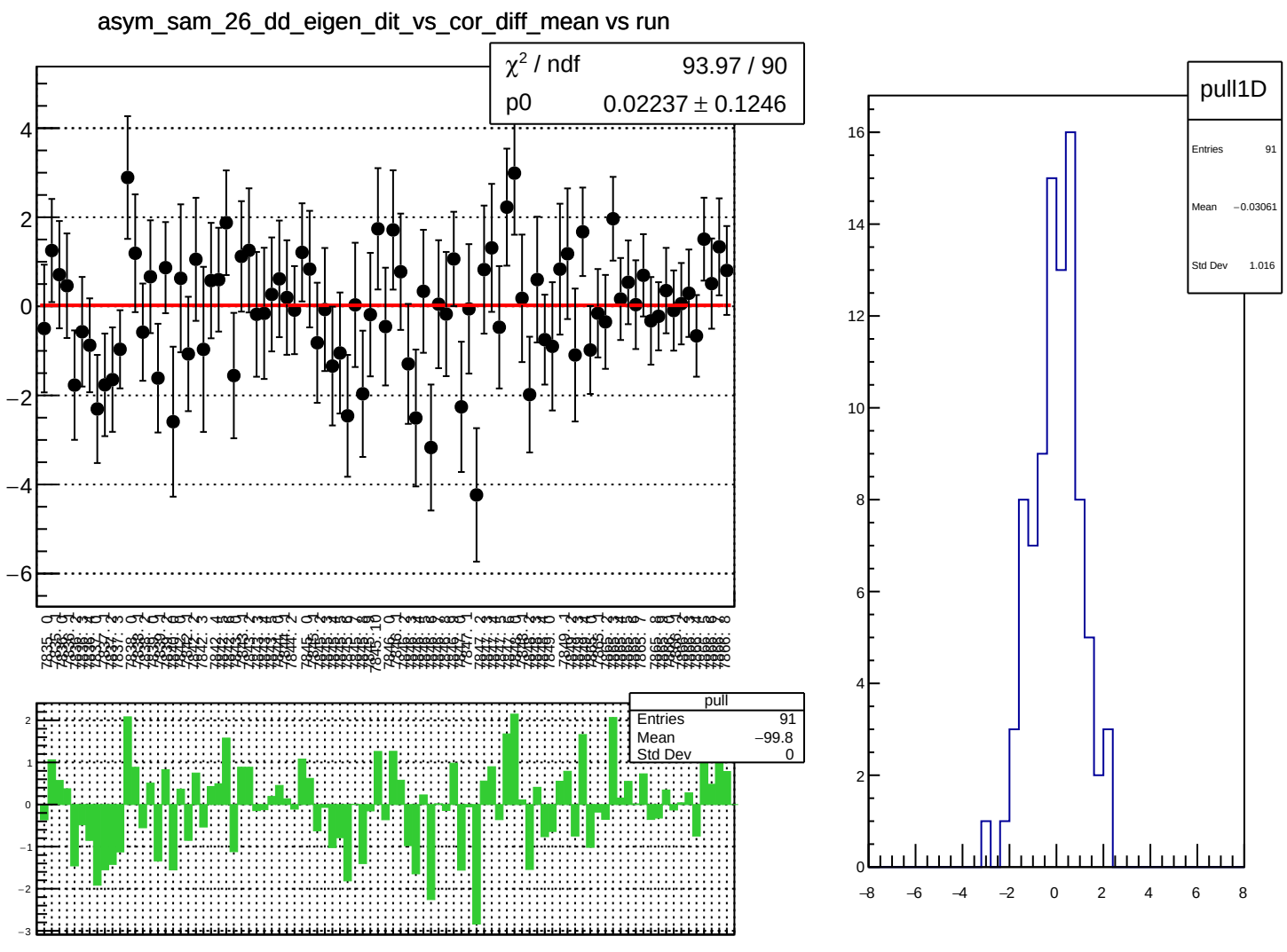

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.97 / 90
p0 0.02236 ± 0.1246
pull
Entries 91
Mean −99.8
Std Dev 0

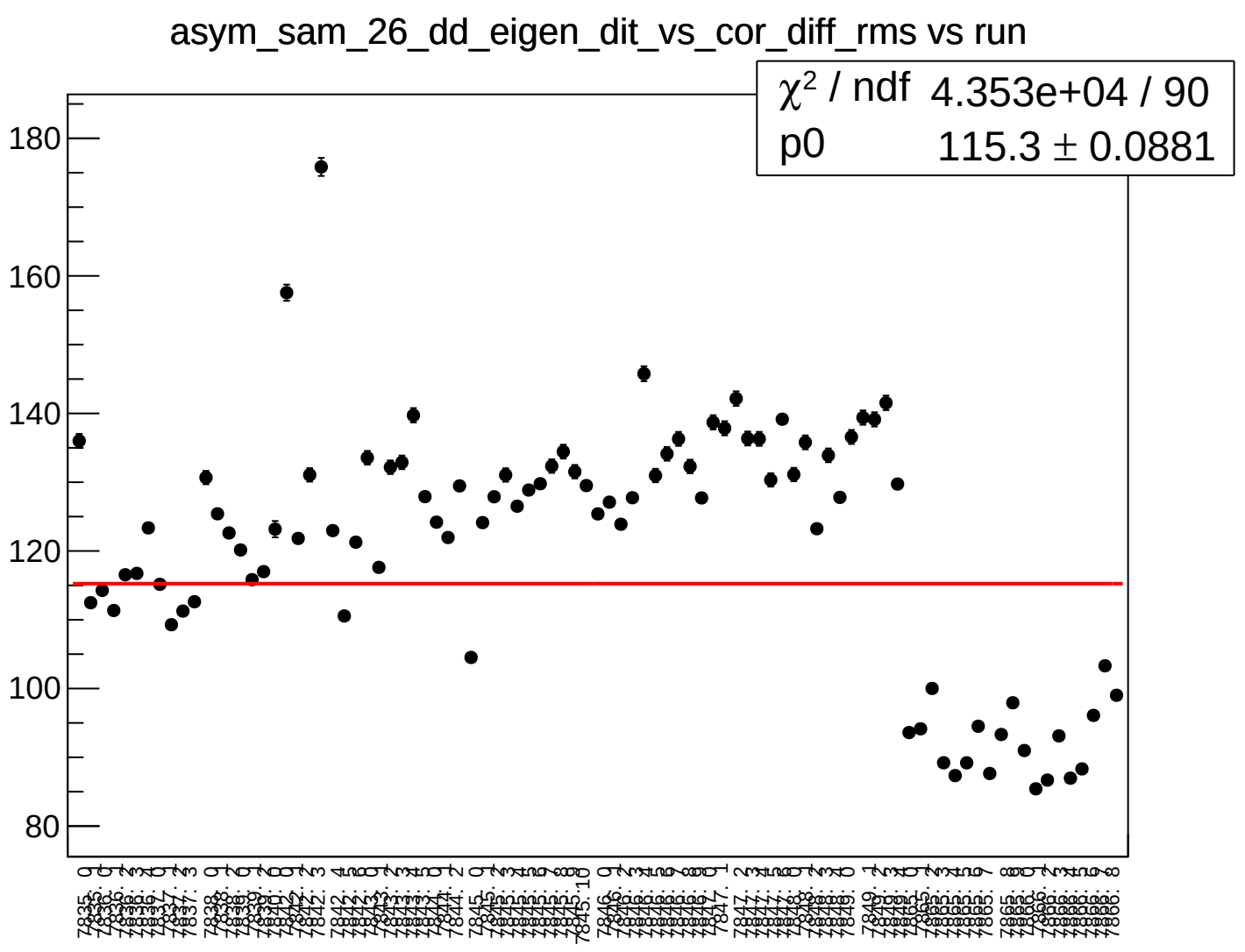

pull1D
Entries 91
Mean −0.0306
Std Dev 1.016

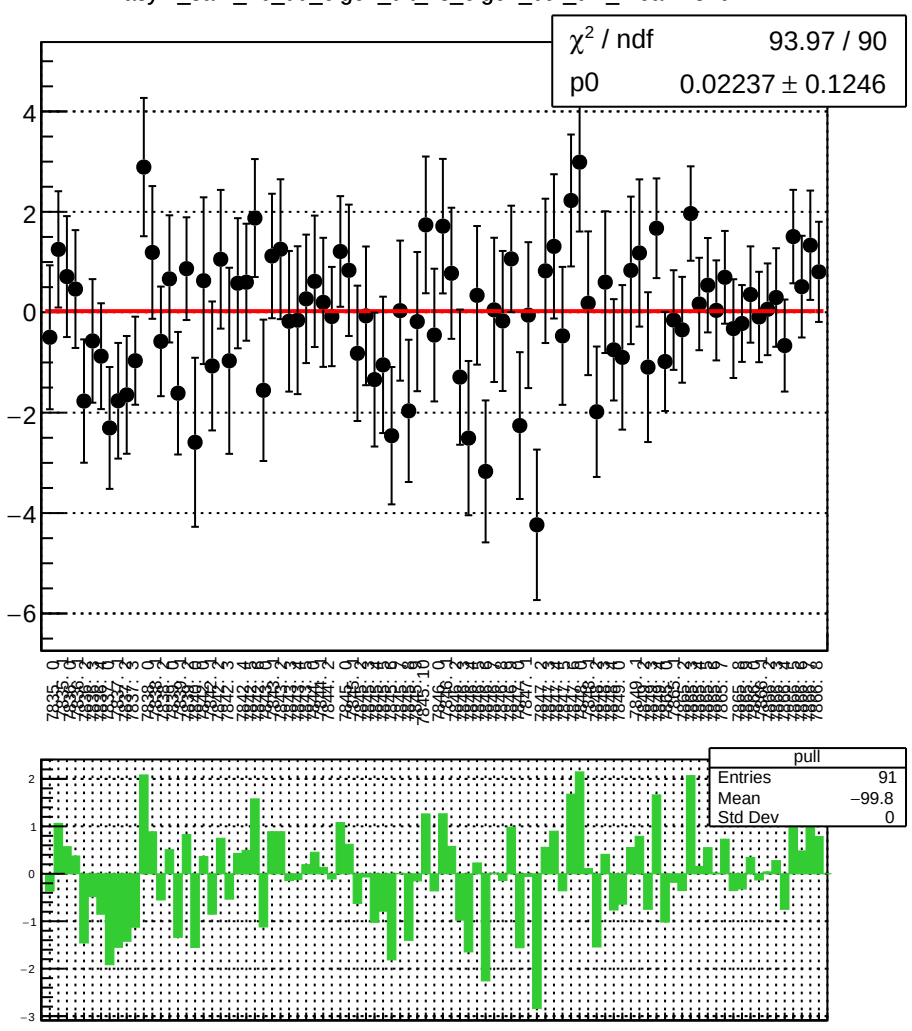

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.353e+04 / 90
p0 115.3 ± 0.0881
180
160
140
120
100
80

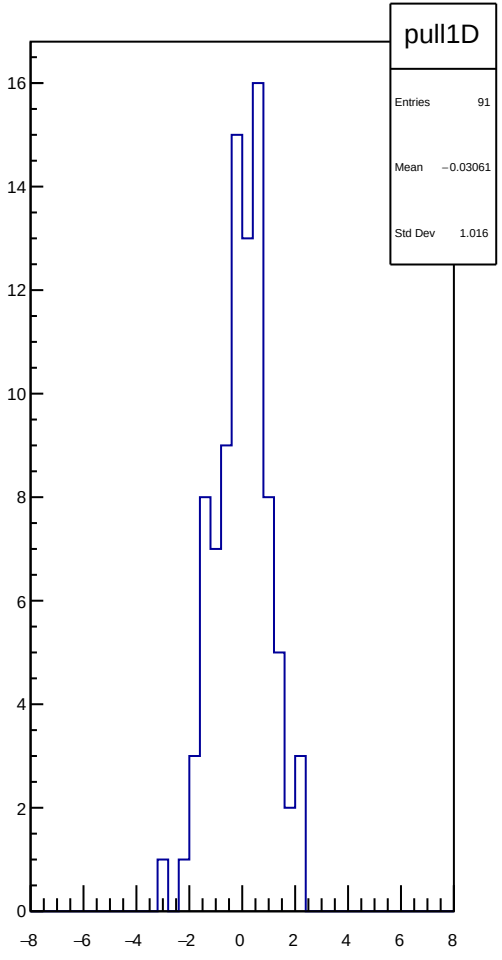

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 115 / 90
p0 1.16e−05 ± 4.858e−06
pull
Entries 91
Mean −211.2
Std Dev 0
pull1D
Entries 91
Mean −0.009884
Std Dev 1.124

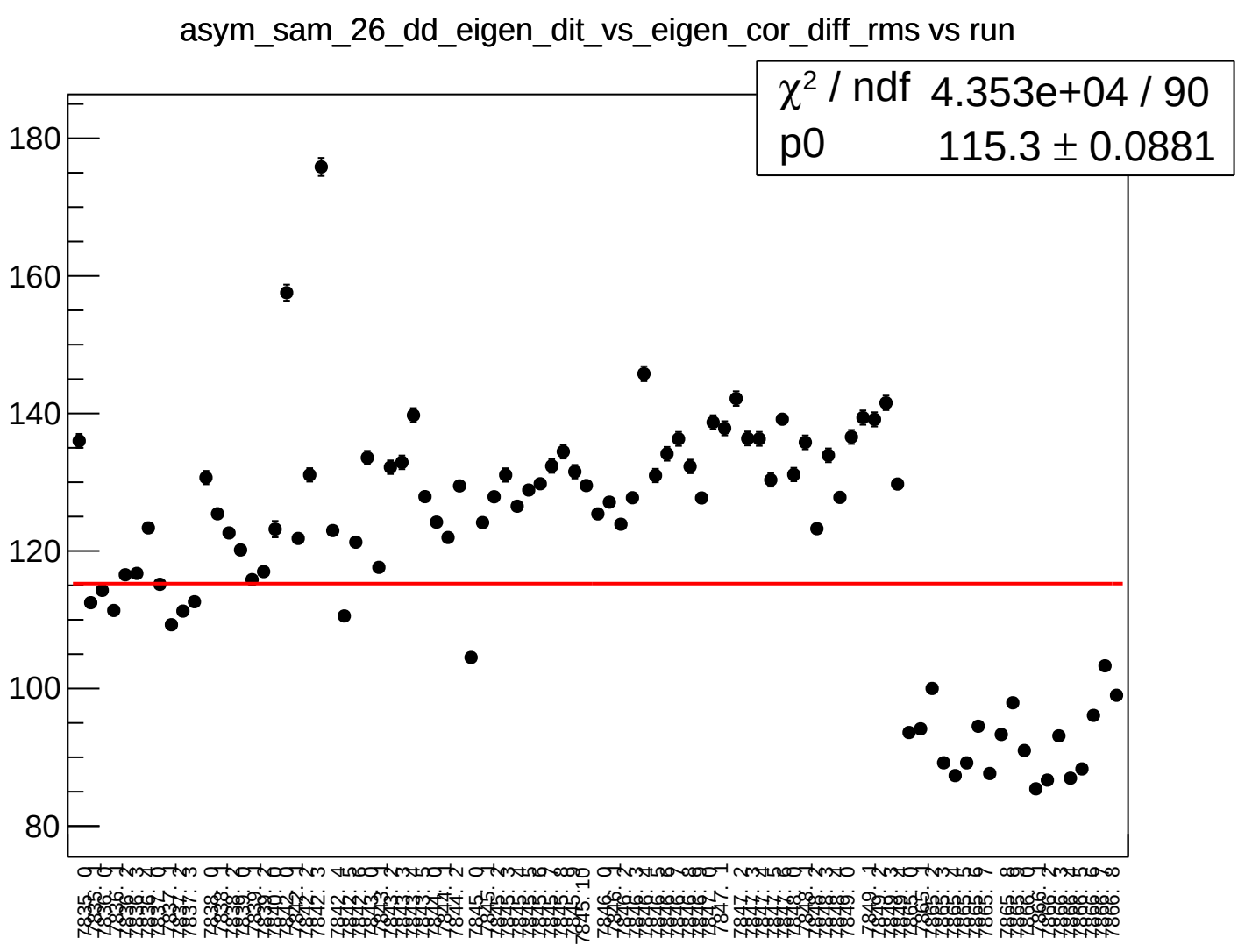

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.527e+04 / 90
p0 0.004518 ± 3.435e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

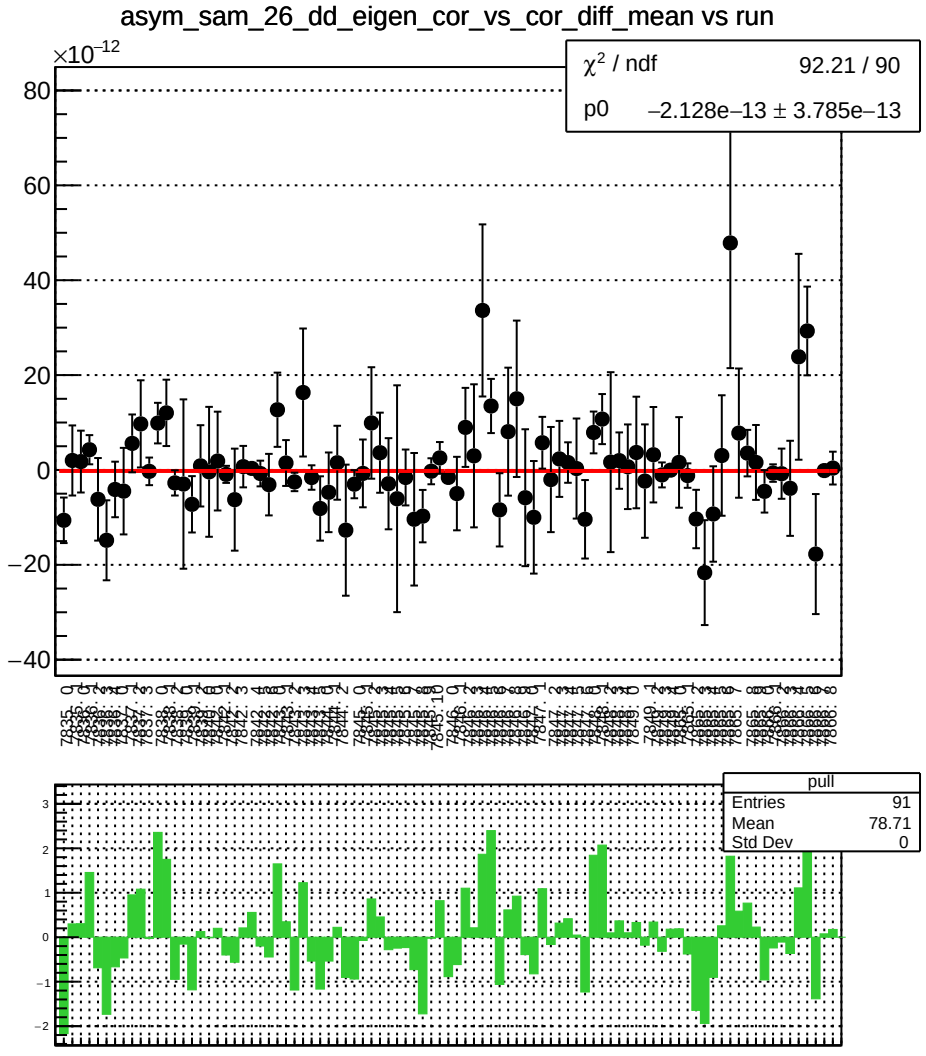

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.97 / 90
p0 0.02237 ± 0.1246
pull
Entries 91
Mean −99.8
Std Dev 0
pull1D
Entries 91
Mean −0.03061
Std Dev 1.016

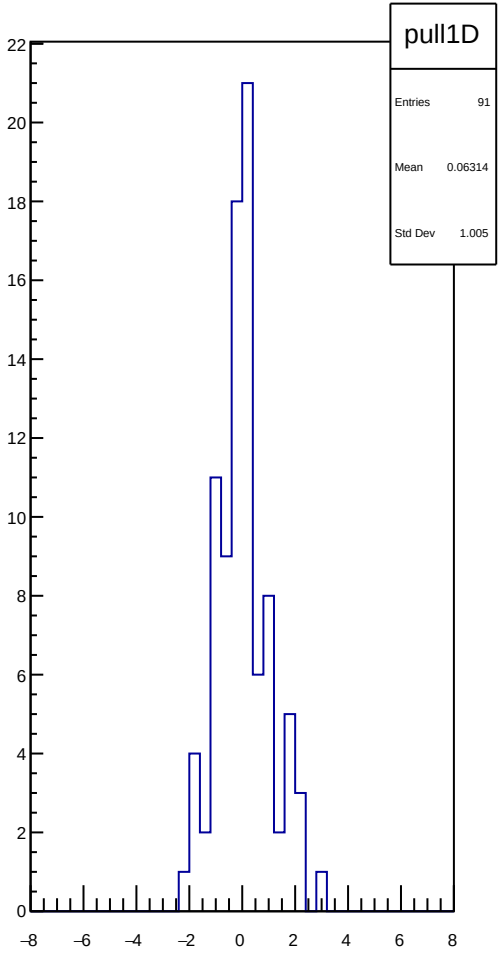

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.353e+04 / 90
p0 115.3 ± 0.0881
180
160
140
120
100
80

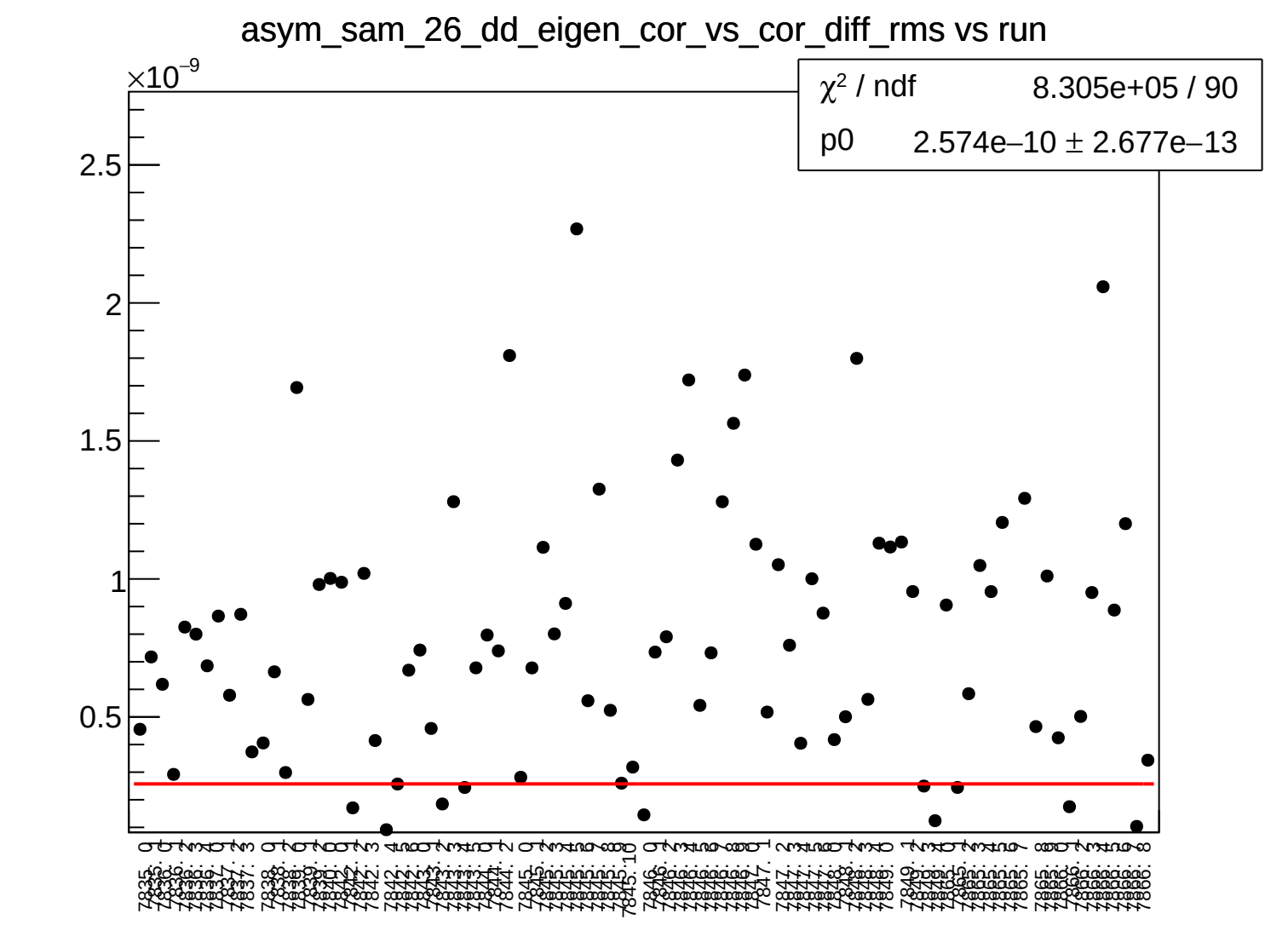

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.97 / 90
p0 0.02237 ± 0.1246
pull
Entries 91
Mean −99.8
Std Dev 0

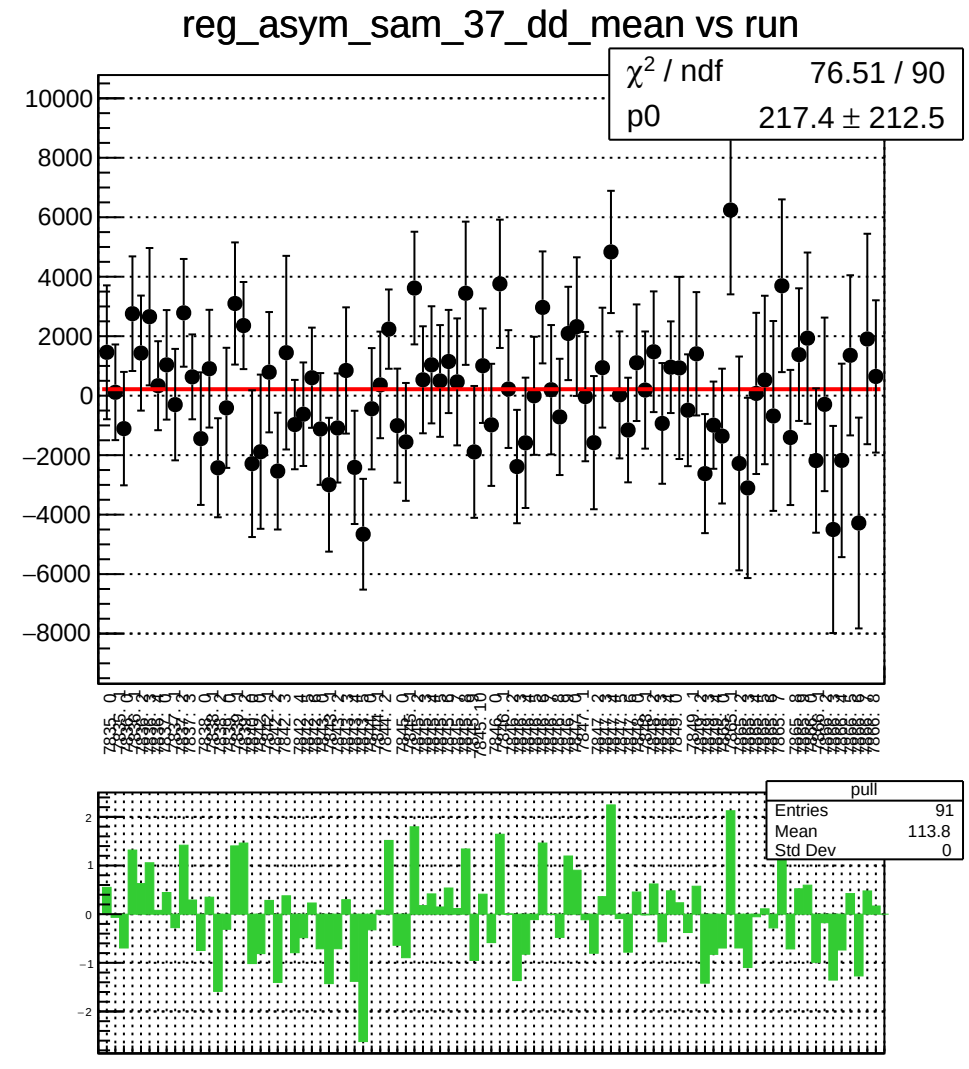

pull1D
Entries 91
Mean −0.03061
Std Dev 1.016

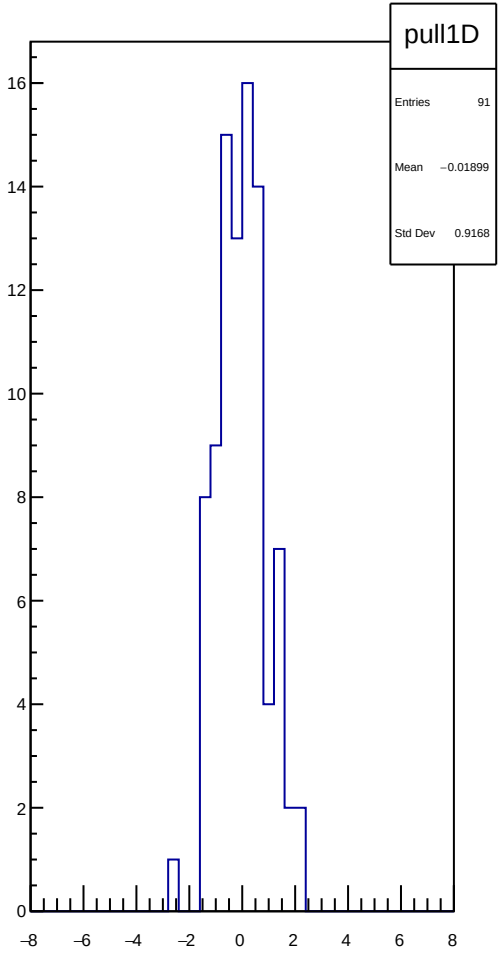

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.353e+04 / 90
p0 115.3 ± 0.0881
180
160
140
120
100
80

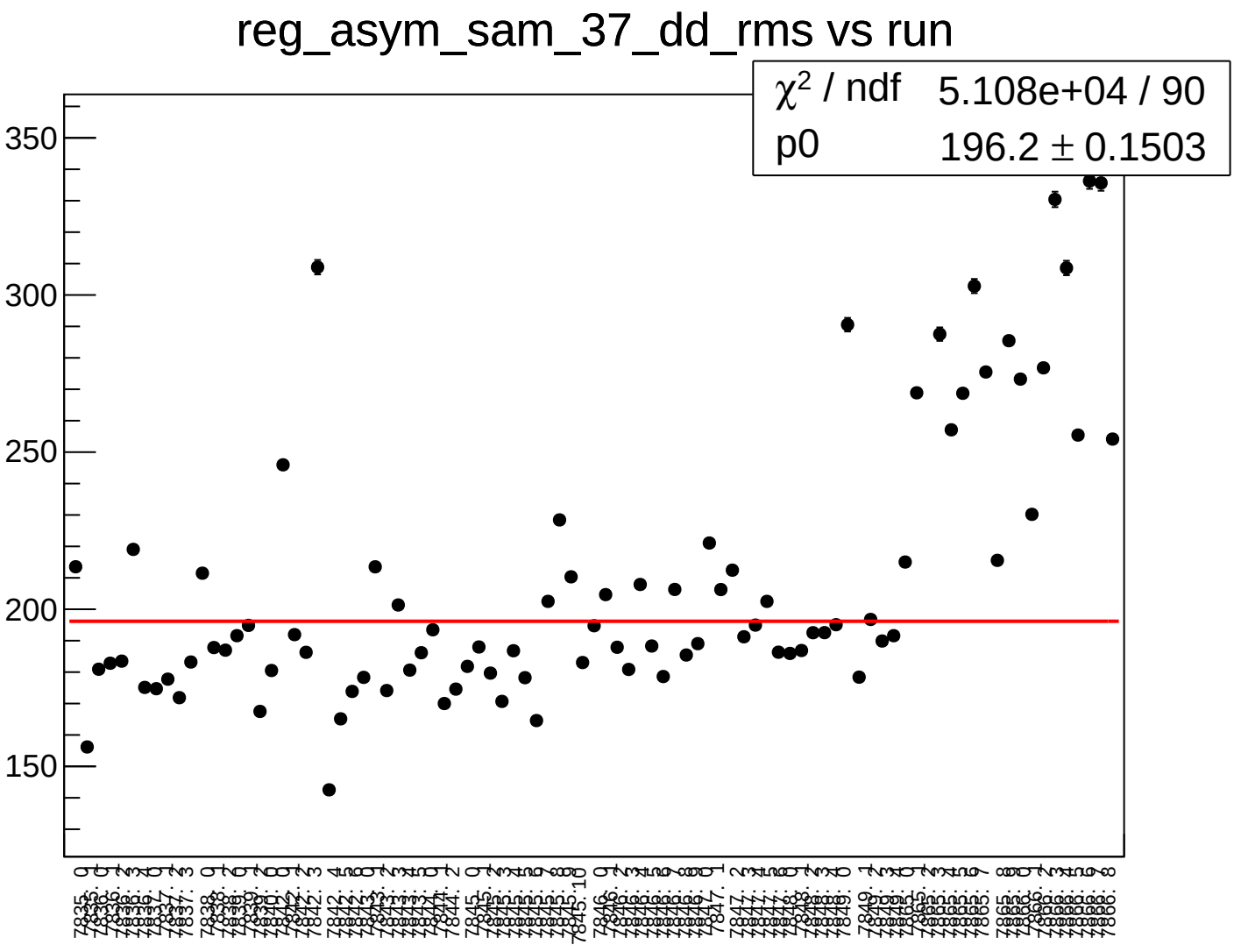

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.21 / 90
p0 −2.128e−13 ± 3.785e−13
pull
Entries 91
Mean 78.71
Std Dev 0

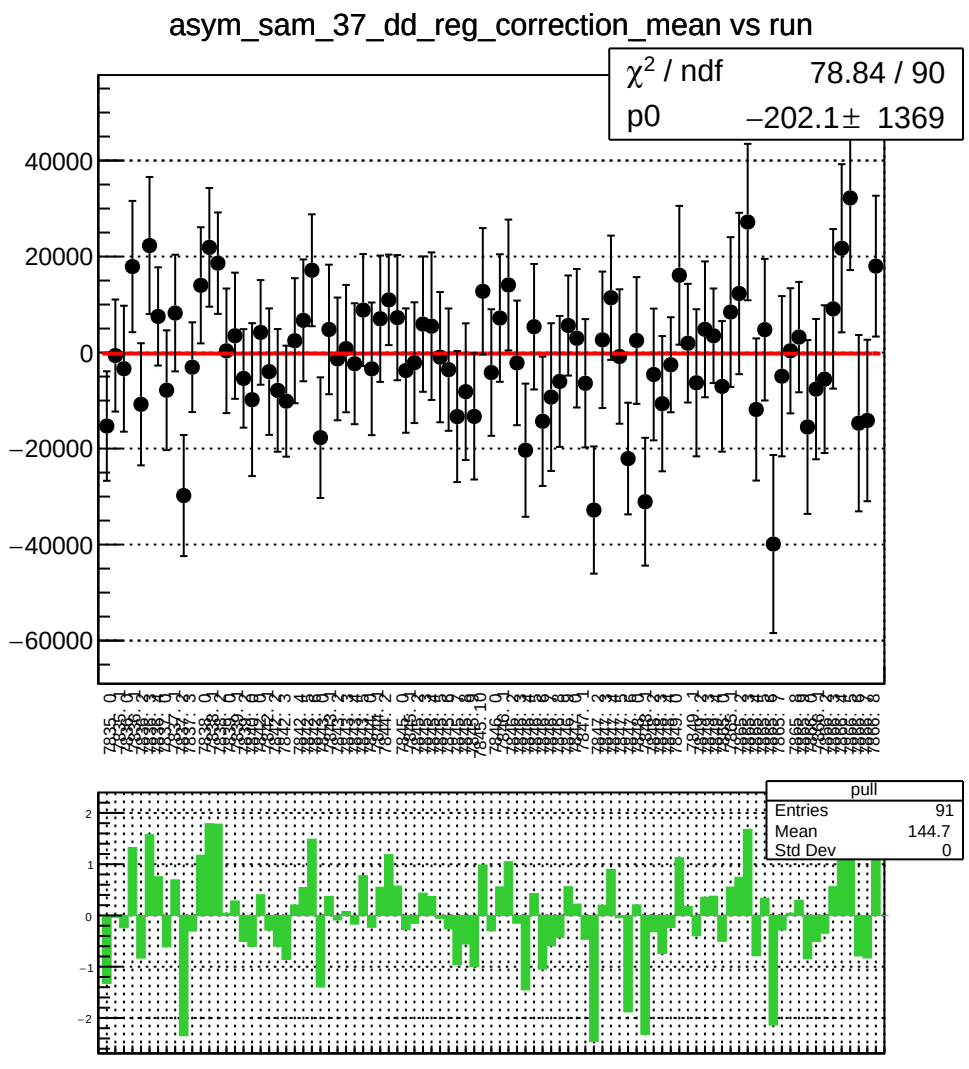

pull1D
Entries 91
Mean 0.06314
Std Dev 1.005

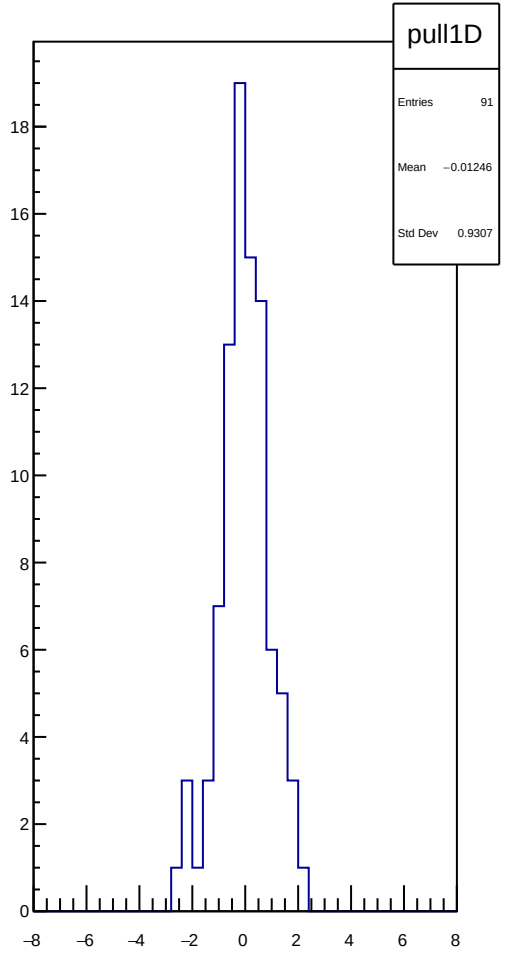

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.305e+05 / 90
p0 2.574e−10 ± 2.677e−13
2.5
2
1.5
1
0.5

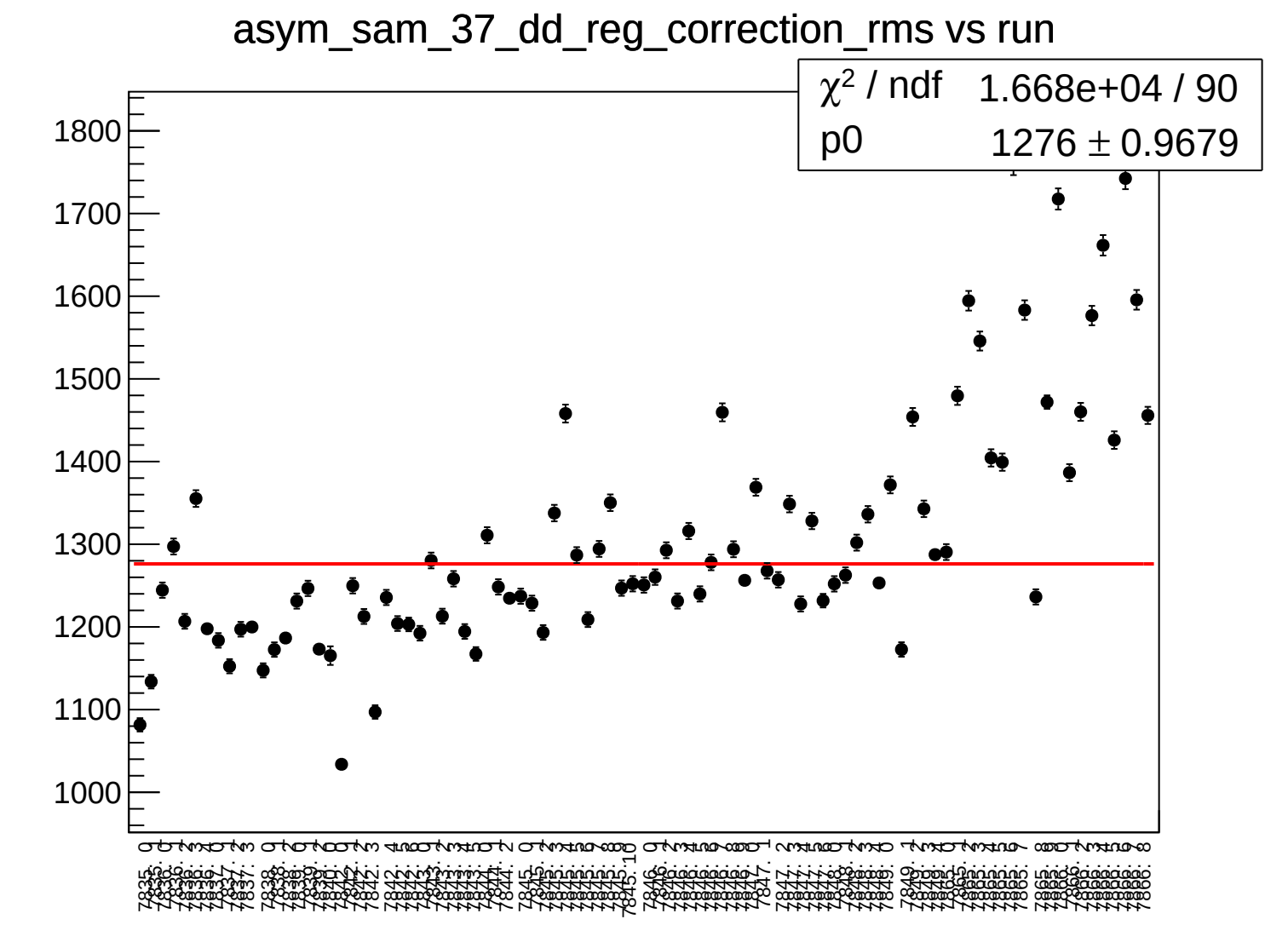

reg_asym_sam_37_dd_mean vs run
χ² / ndf 76.51 / 90
p0 217.4 ± 212.5
pull
Entries 91
Mean 113.8
Std Dev 0

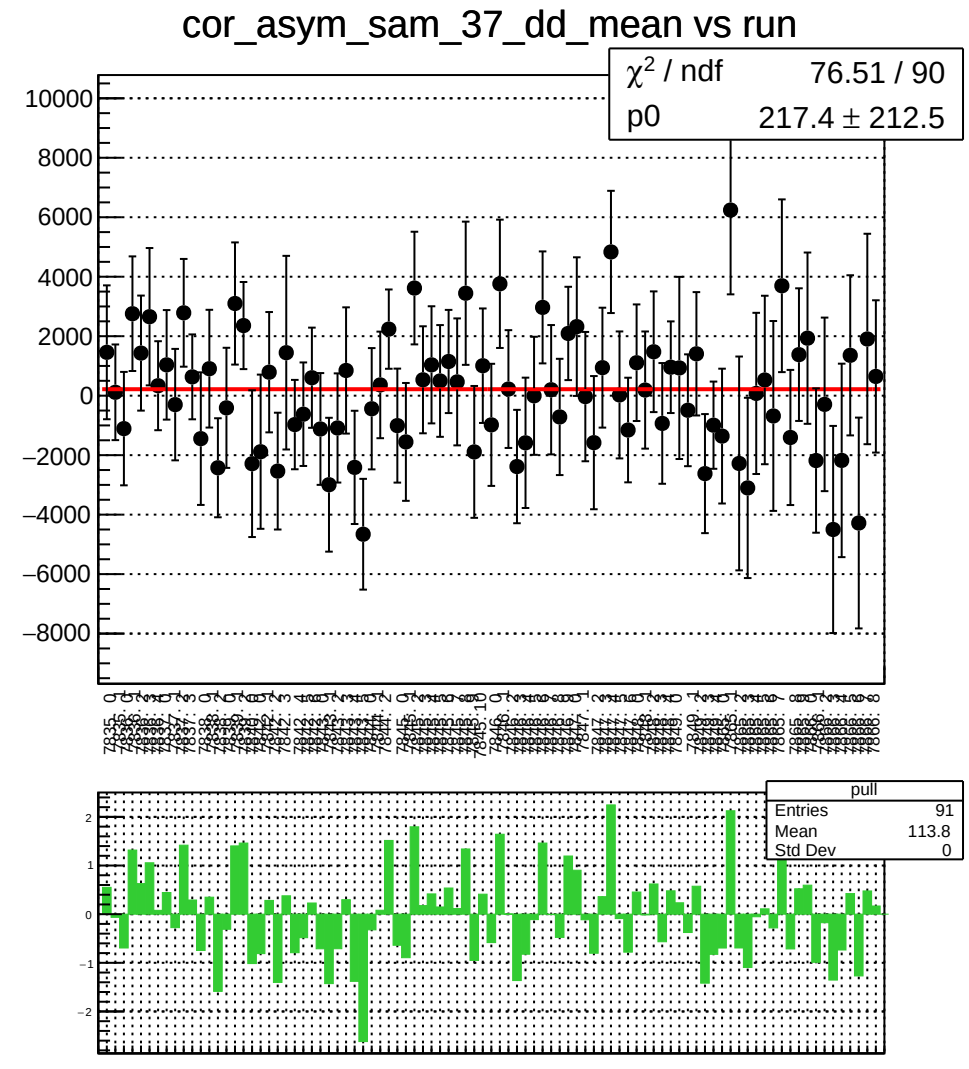

pull1D
Entries 91
Mean −0.01899
Std Dev 0.9168

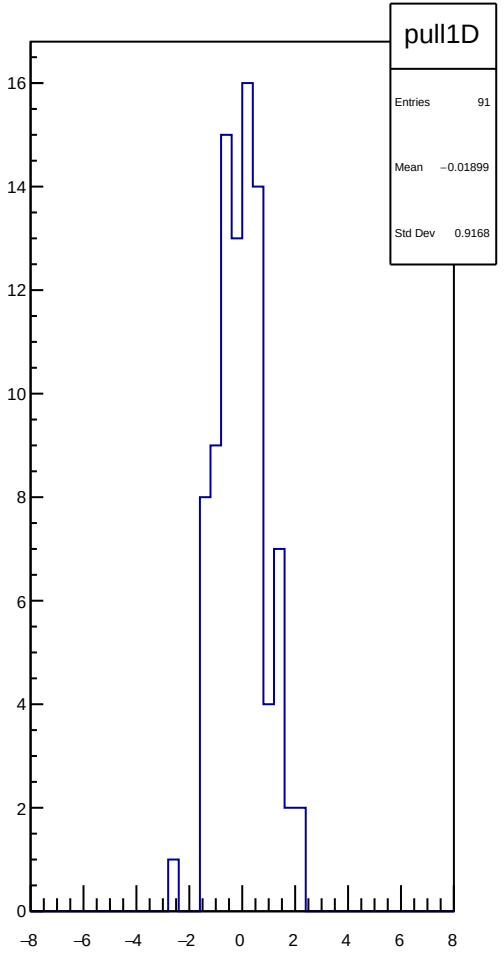

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 5.108e+04 / 90
p0 196.2 ± 0.1503
350
300
250
200
150

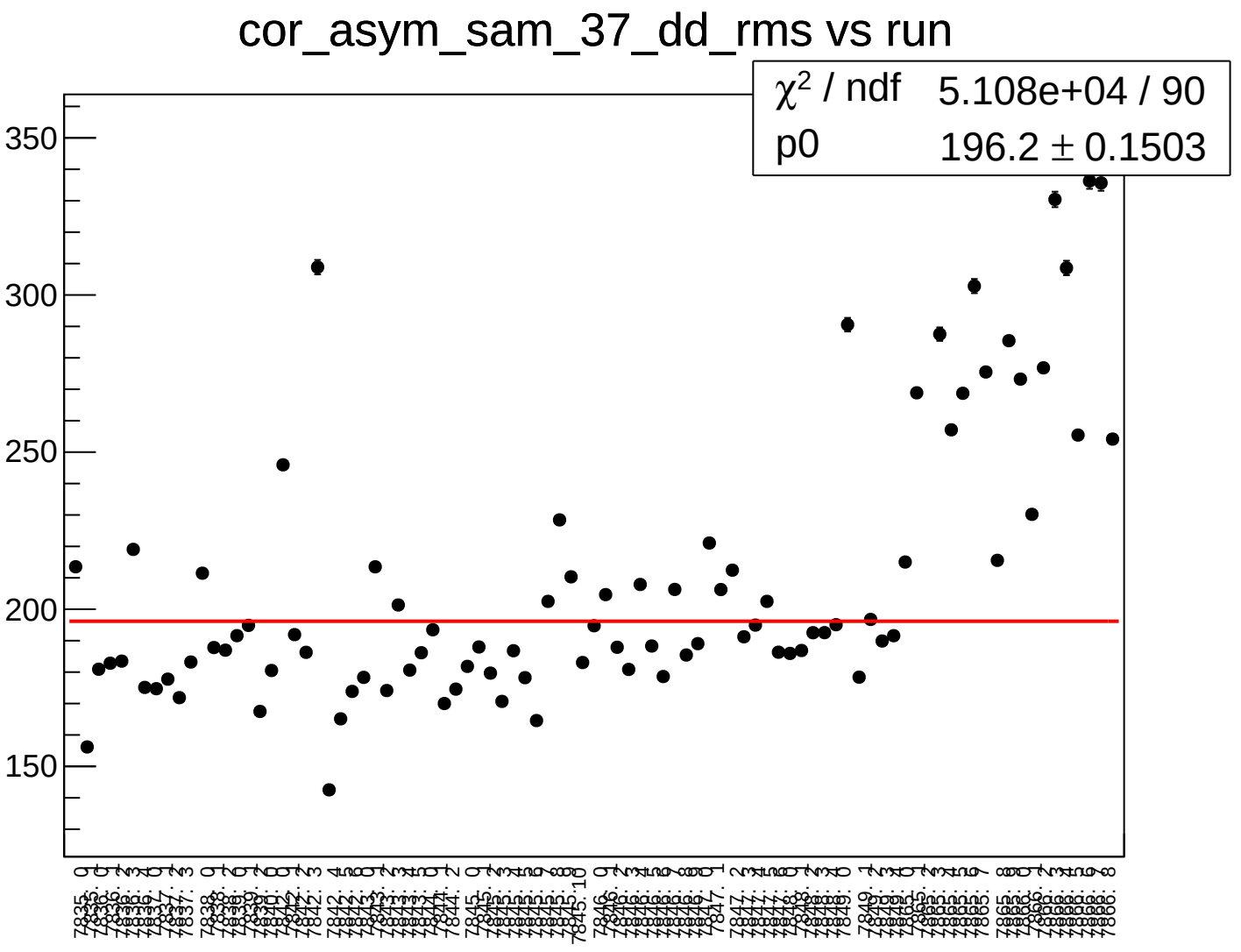

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 78.84 / 90
p0 −202.1± 1369
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 144.7
Std Dev 0
2
1
0
−1
−2

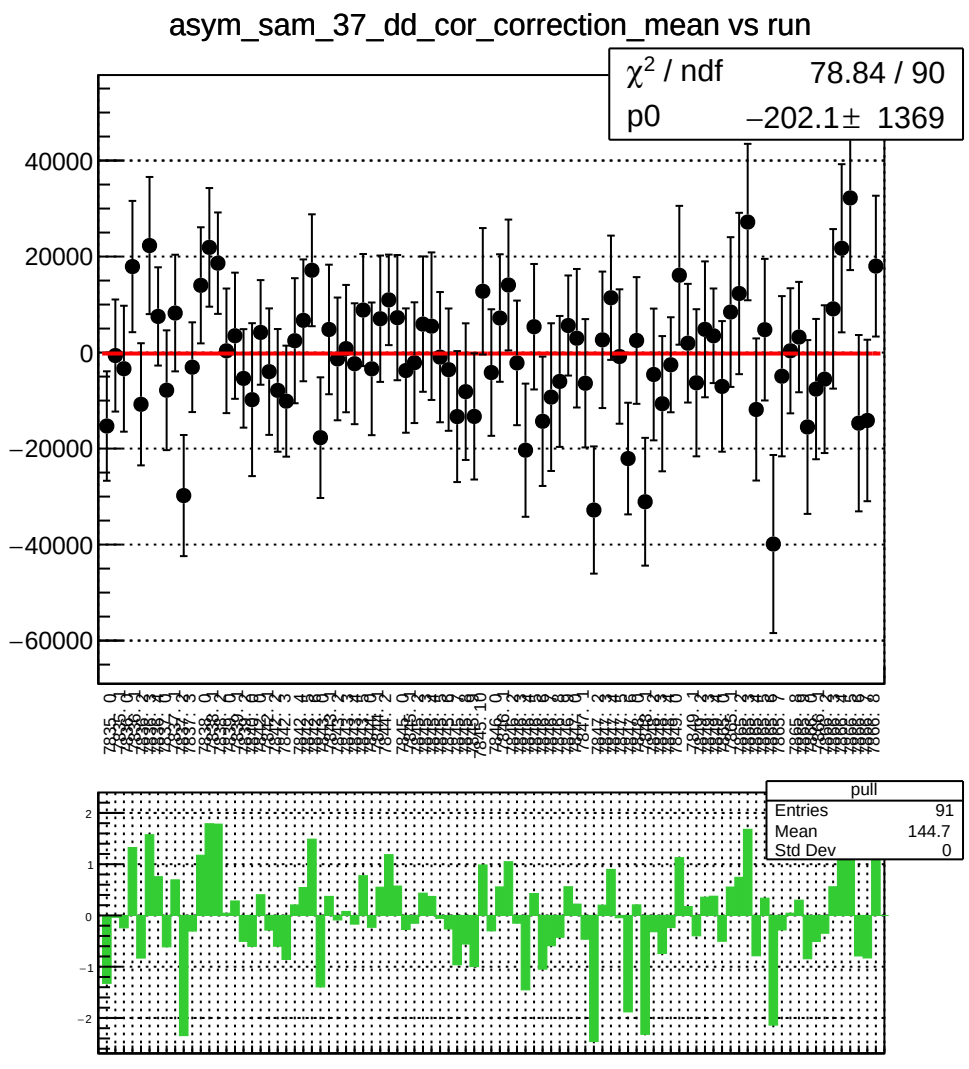

pull1D
Entries 91
Mean −0.01246
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

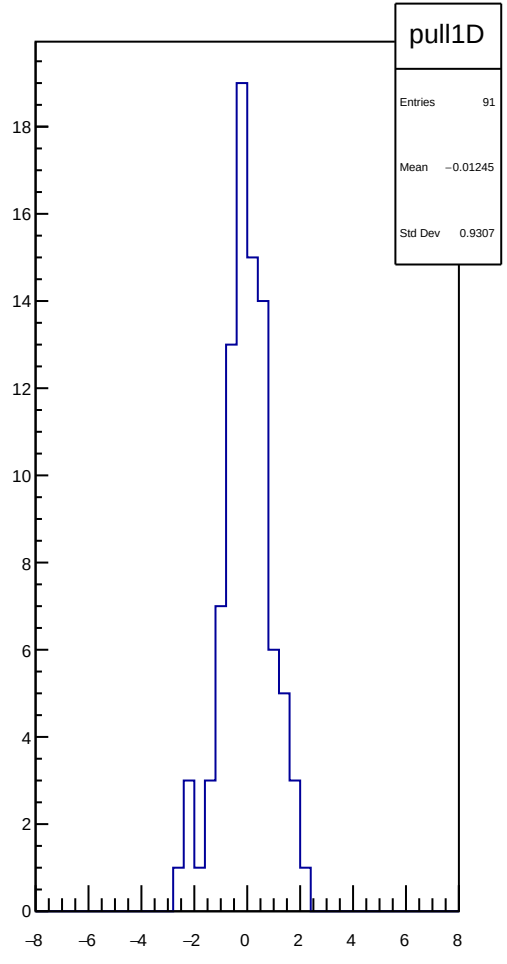

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.668e+04 / 90
p0 1276 ± 0.9679
1800
1700
1600
1500
1400
1300
1200
1100
1000

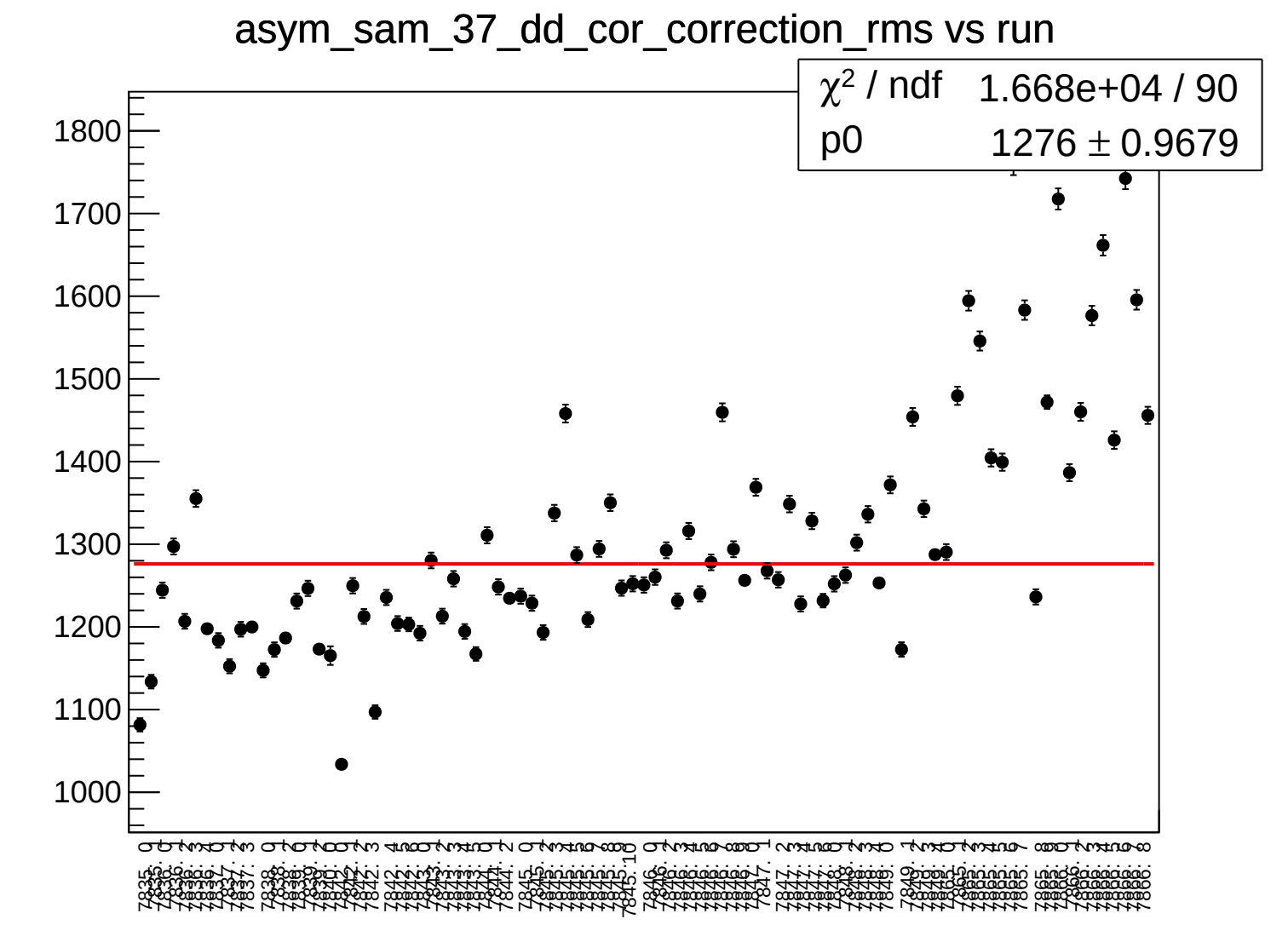

cor_asym_sam_37_dd_mean vs run
χ² / ndf 76.51 / 90
p0 217.4 ± 212.5
pull
Entries 91
Mean 113.8
Std Dev 0

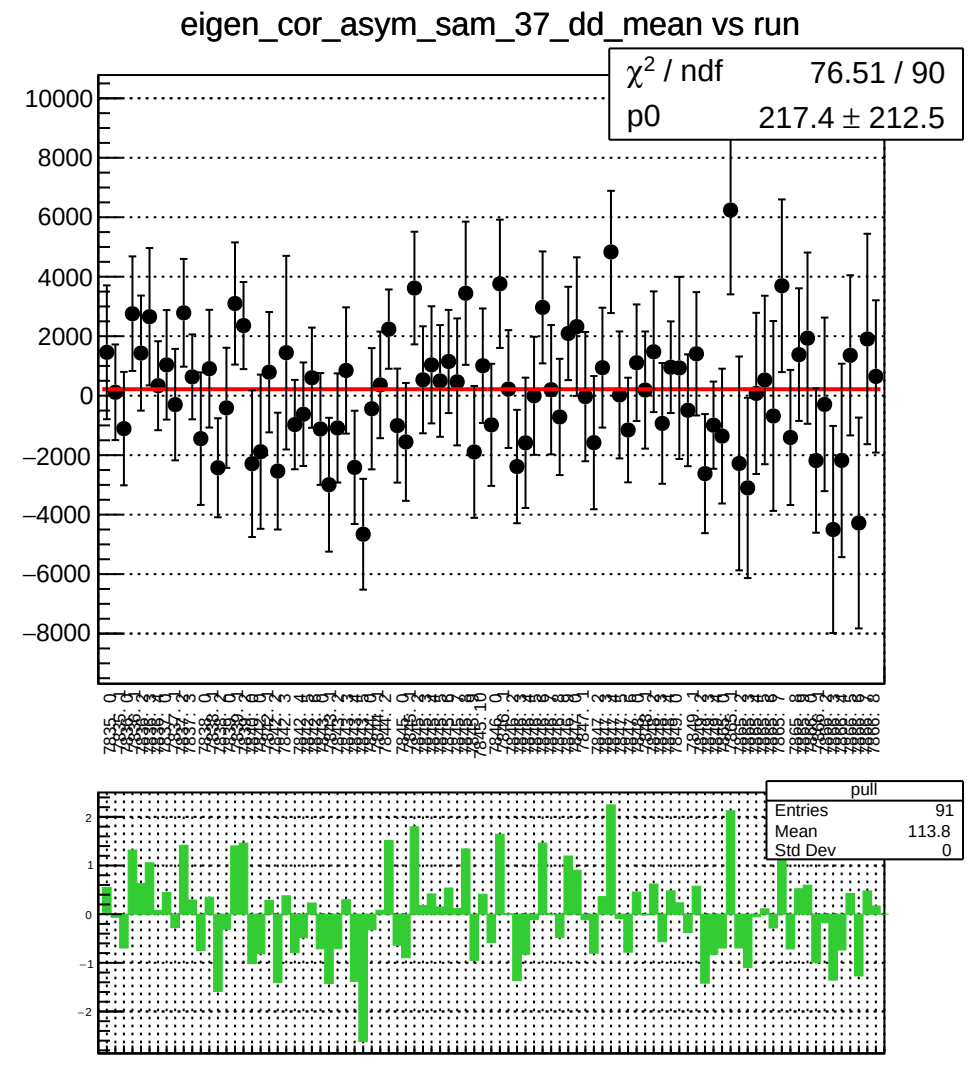

pull1D
Entries 91
Mean −0.01899
Std Dev 0.9168

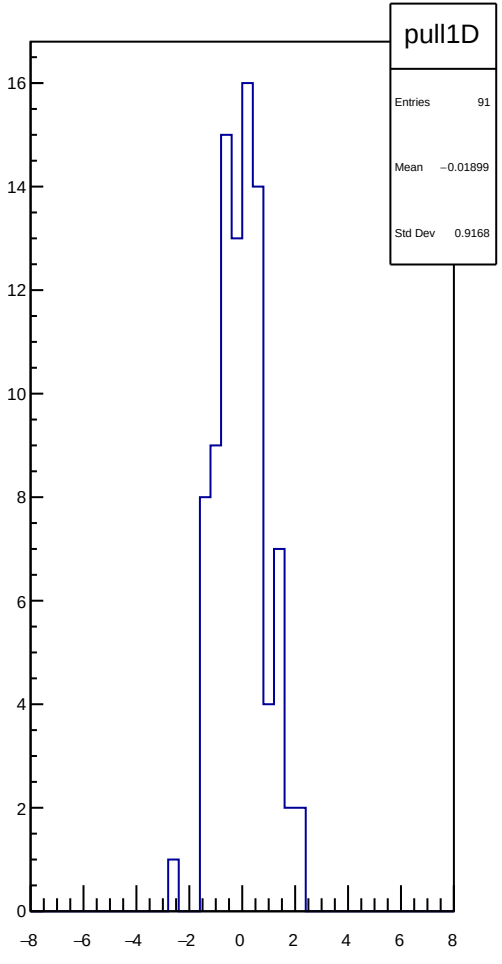

cor_asym_sam_37_dd_rms vs run
χ² / ndf 5.108e+04 / 90
p0 196.2 ± 0.1503
350
300
250
200
150

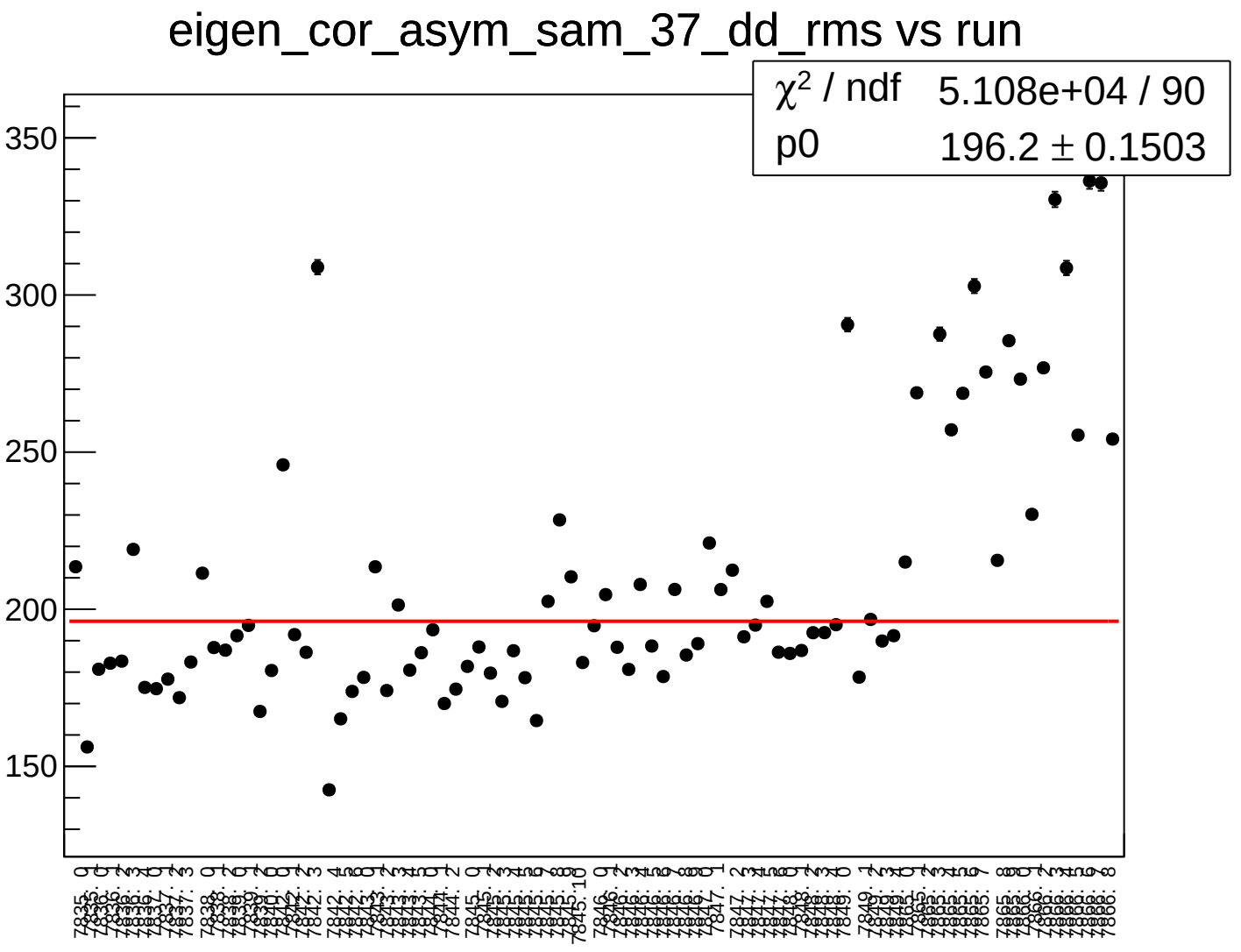

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 78.84 / 90
p0 −202.1± 1369
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 144.7
Std Dev 0
2
1
0
−1
−2

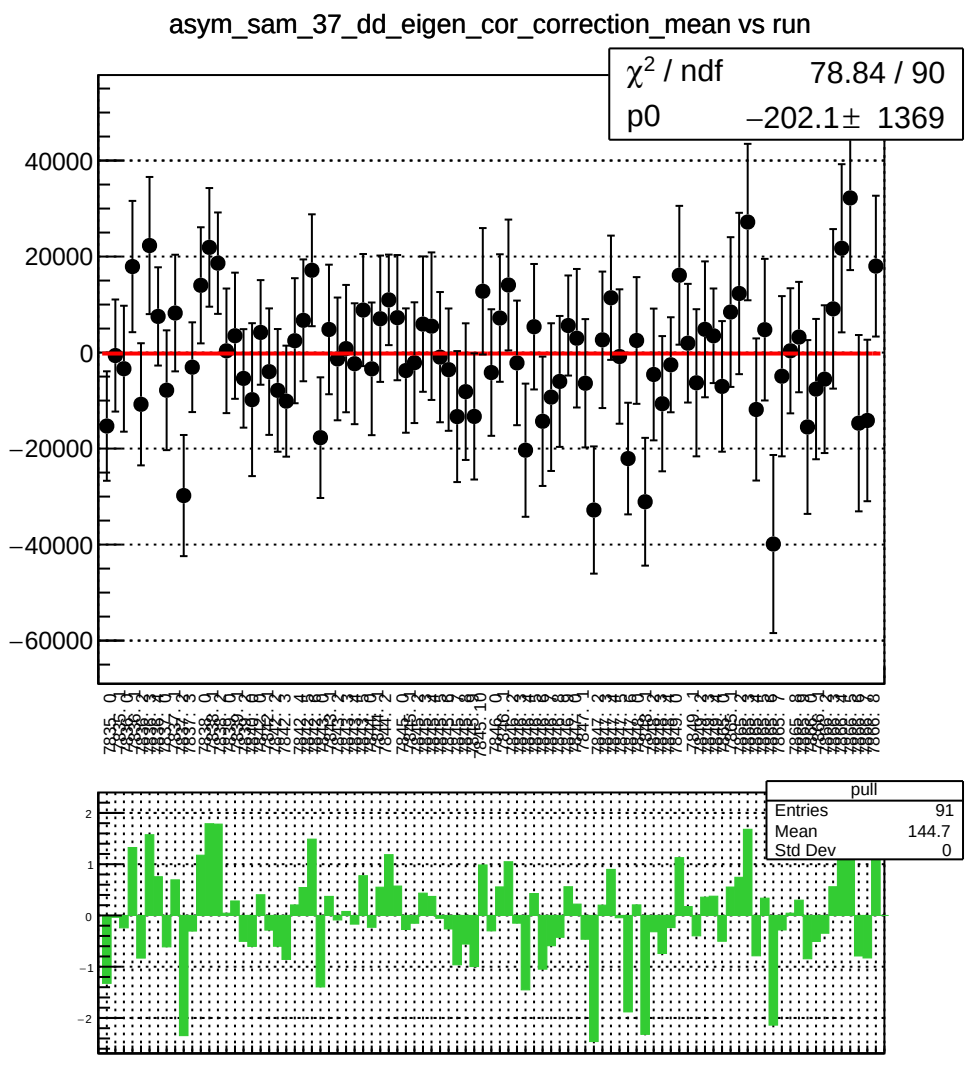

pull1D
Entries 91
Mean −0.01245
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

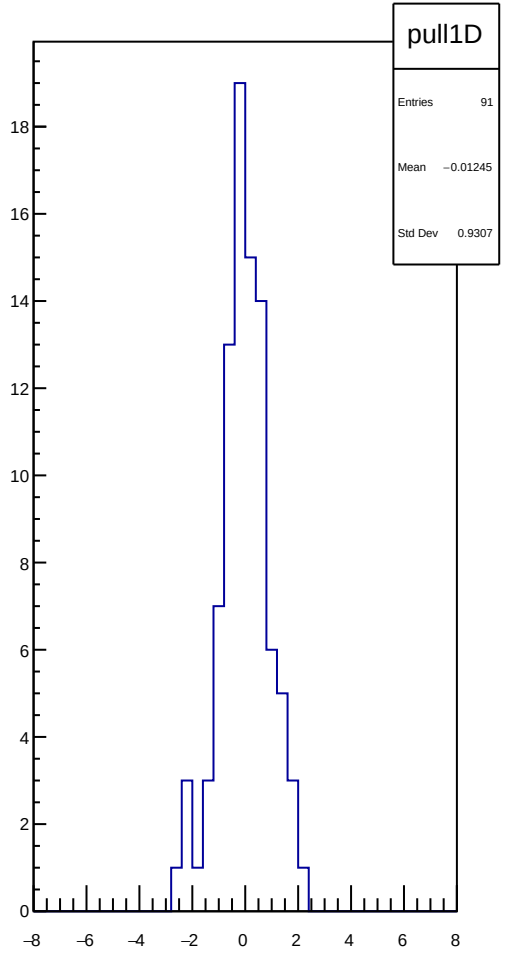

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.668e+04 / 90
p0 1276 ± 0.9679
1800
1700
1600
1500
1400
1300
1200
1100
1000

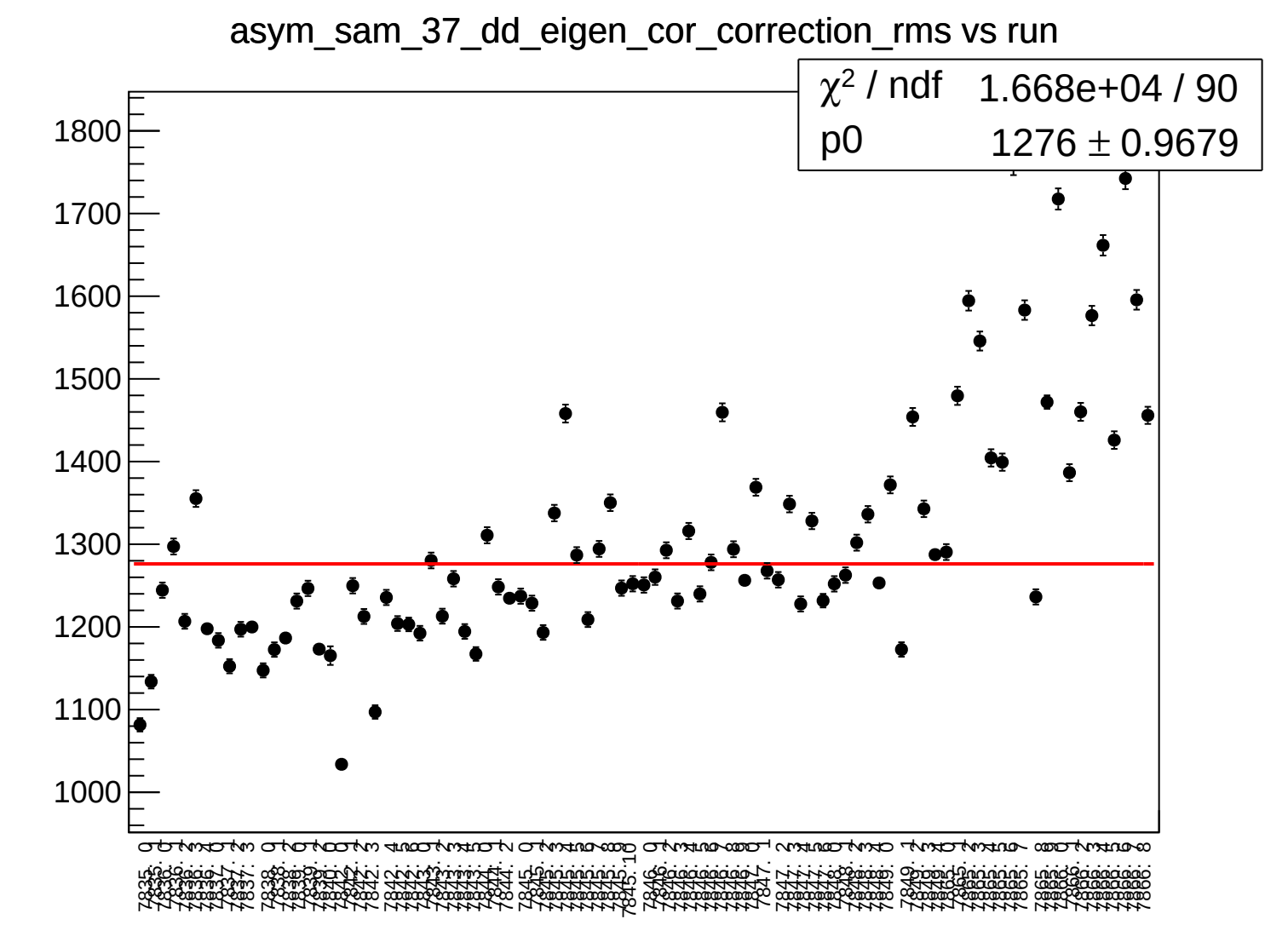

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 76.51 / 90
p0 217.4 ± 212.5
pull
Entries 91
Mean 113.8
Std Dev 0

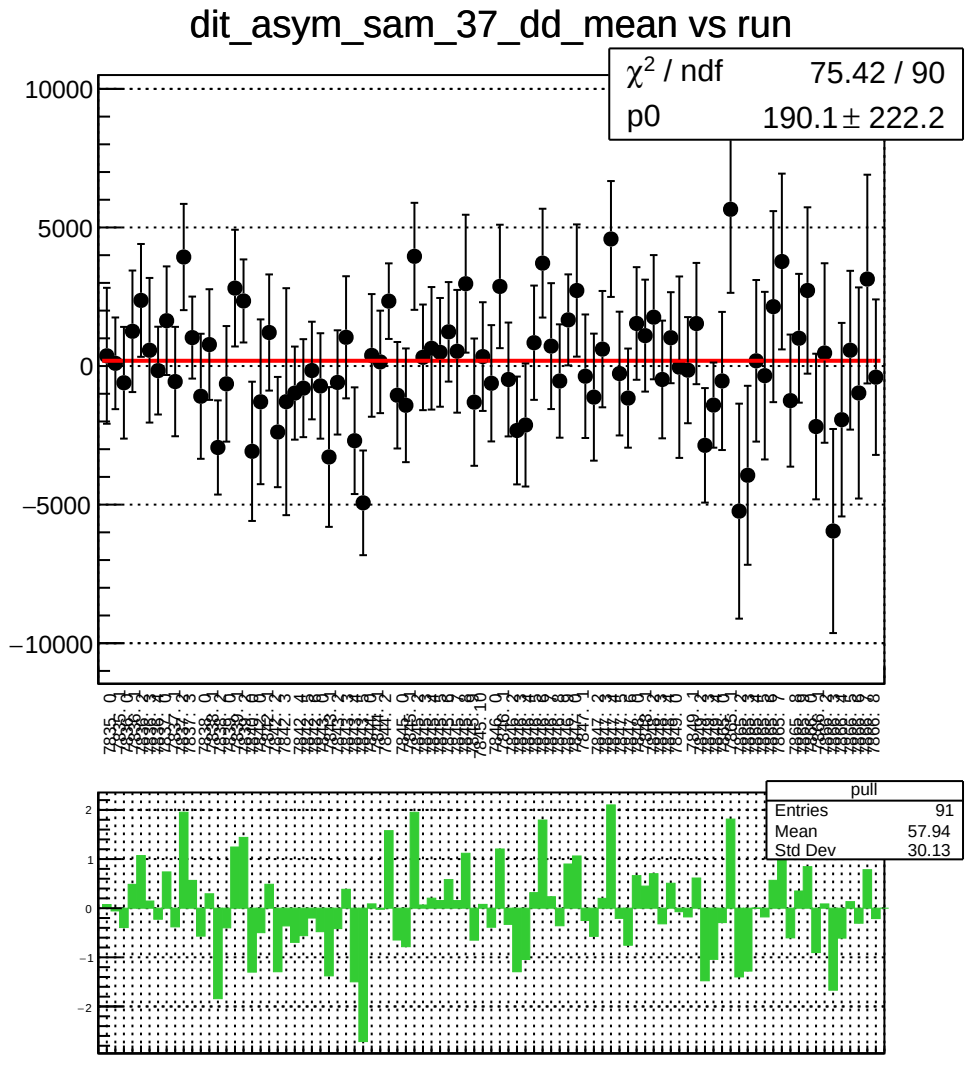

pull1D
Entries 91
Mean −0.01899
Std Dev 0.9168

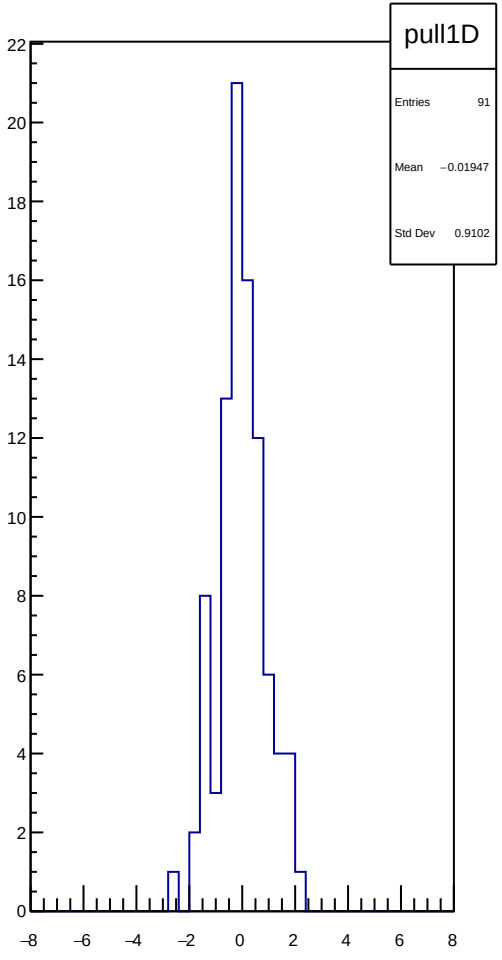

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 5.108e+04 / 90
p0 196.2 ± 0.1503
350
300
250
200
150

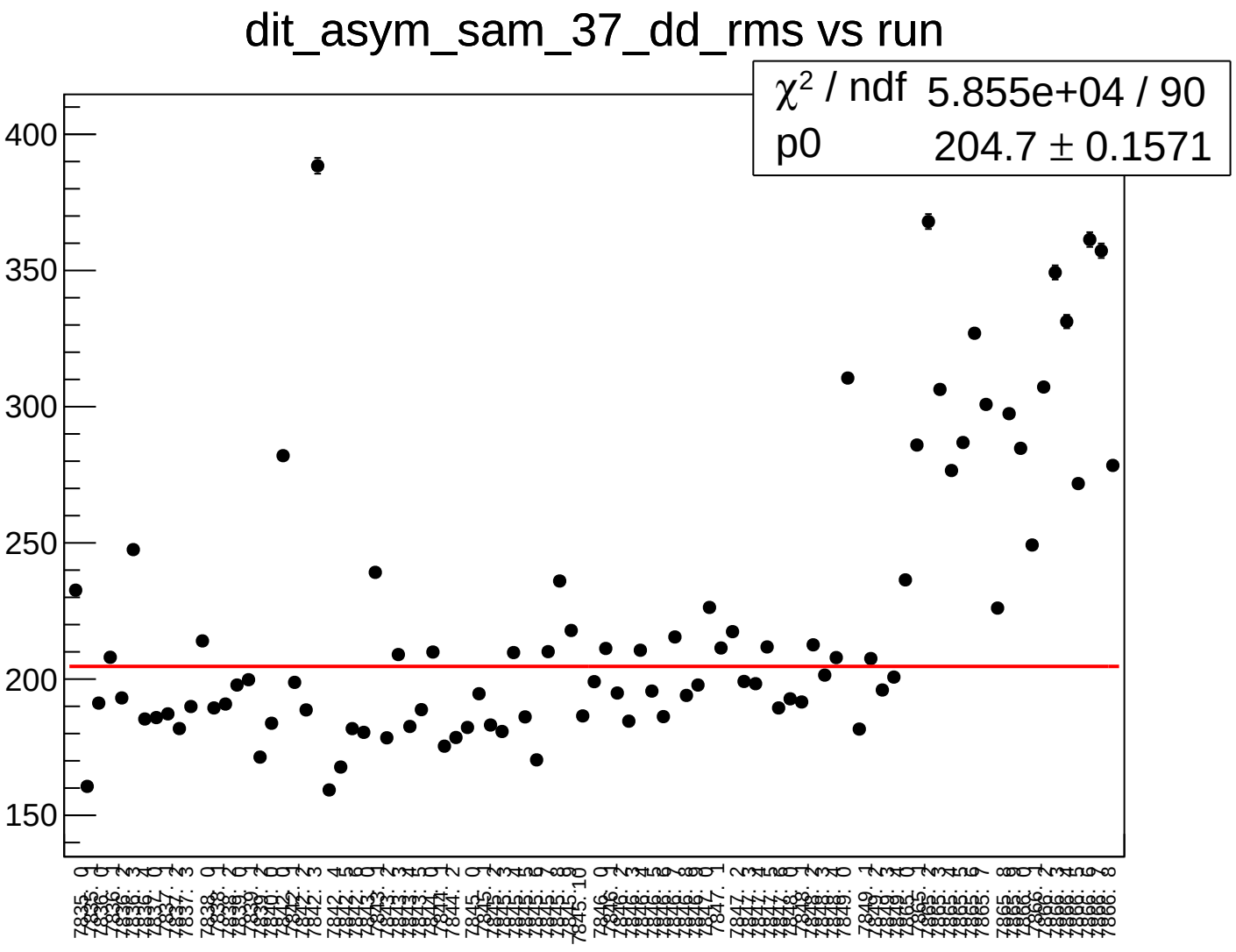

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.84 / 90
p0 −202.1± 1369
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 144.7
Std Dev 0
2
1
0
−1
−2

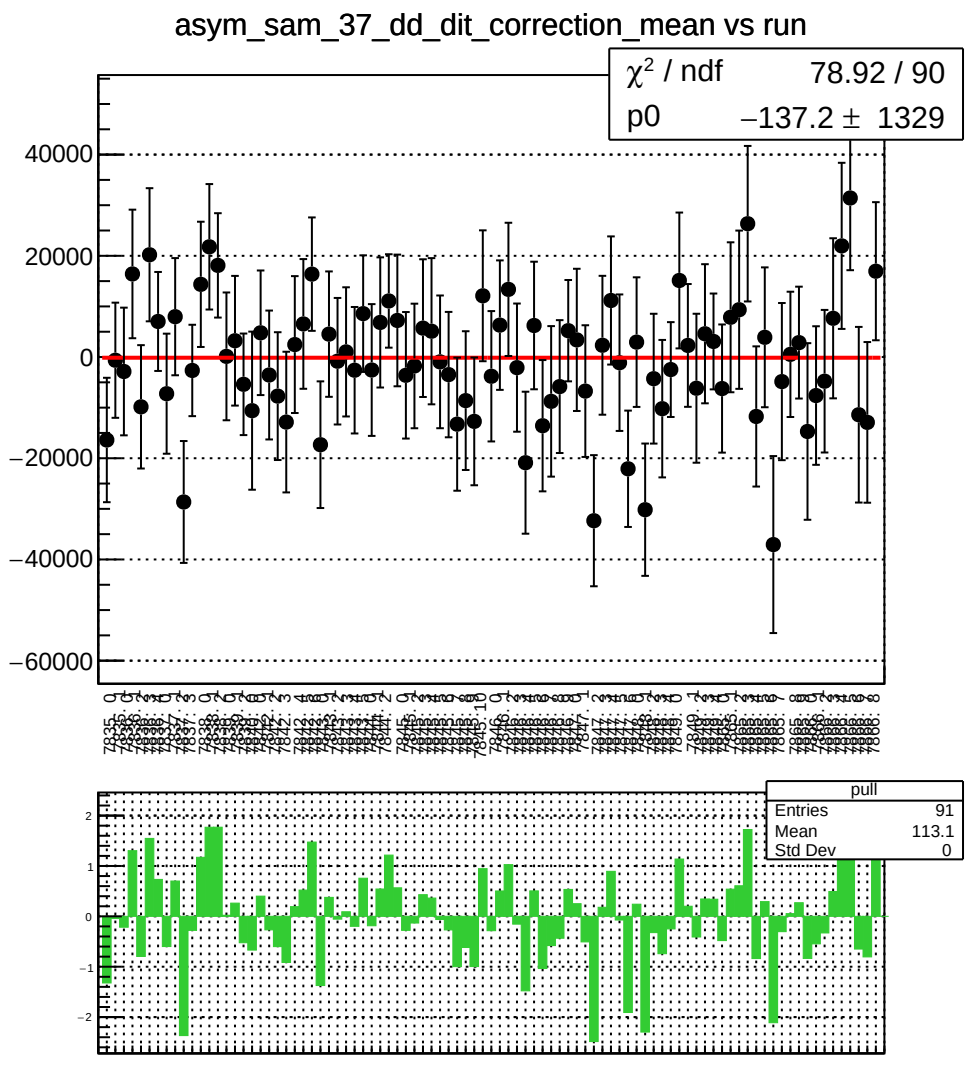

pull1D
Entries 91
Mean −0.01245
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

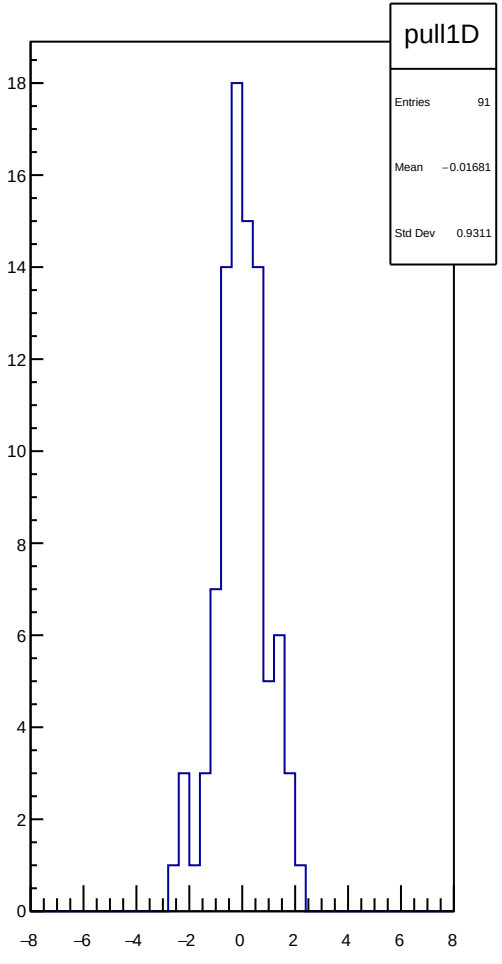

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.668e+04 / 90
p0 1276 ± 0.9679
1800
1700
1600
1500
1400
1300
1200
1100
1000

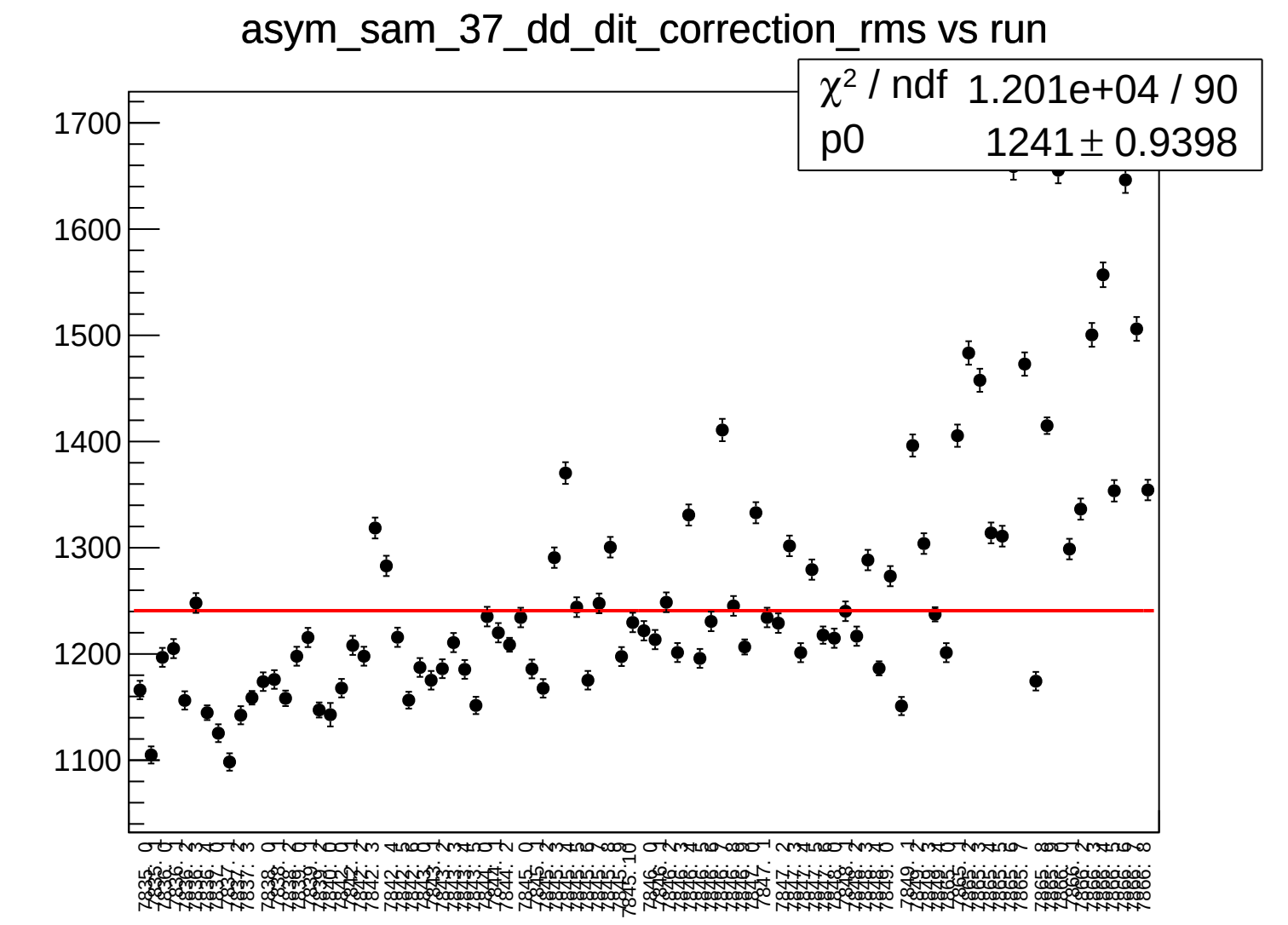

dit_asym_sam_37_dd_mean vs run
χ² / ndf 75.42 / 90
p0 190.1 ± 222.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 57.94
Std Dev 30.13
2
1
0
−1
−2

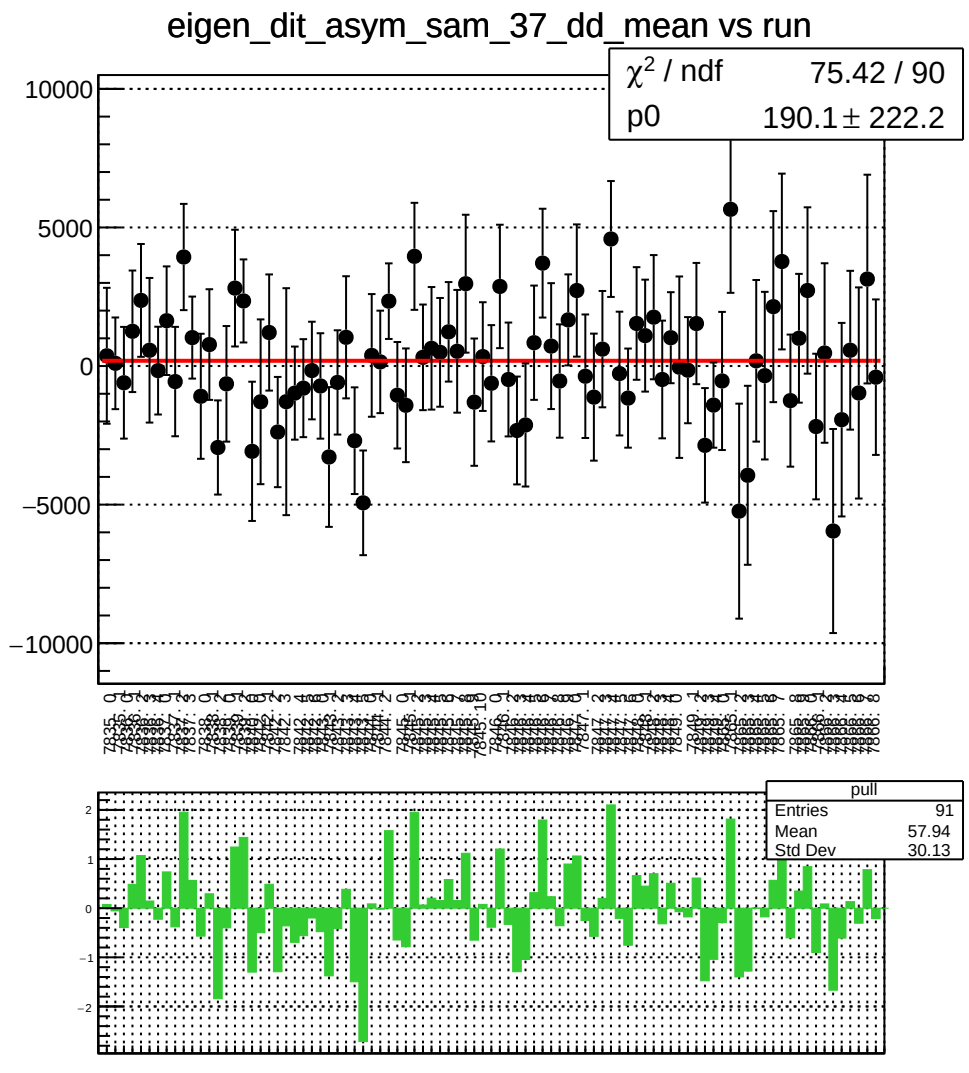

pull1D
Entries 91
Mean −0.01947
Std Dev 0.9102
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

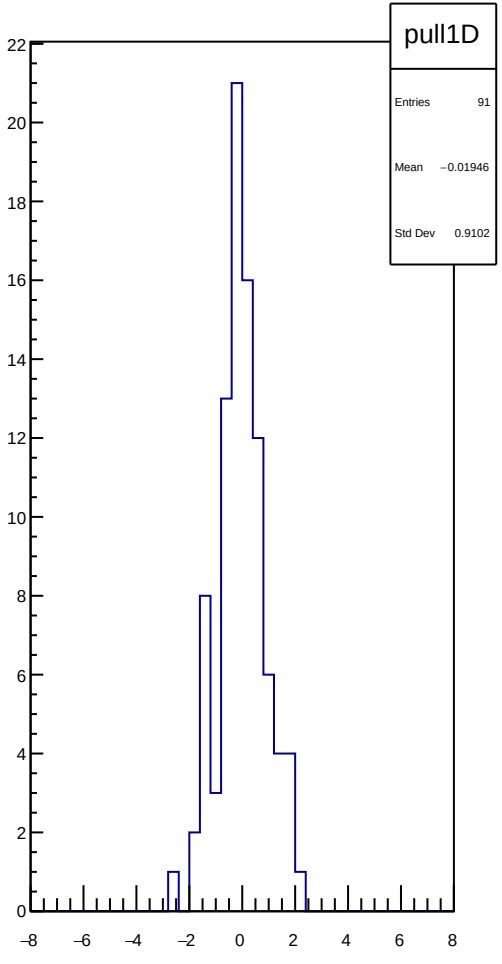

dit_asym_sam_37_dd_rms vs run
χ² / ndf 5.855e+04 / 90
p0 204.7 ± 0.1571
400
350
300
250
200
150

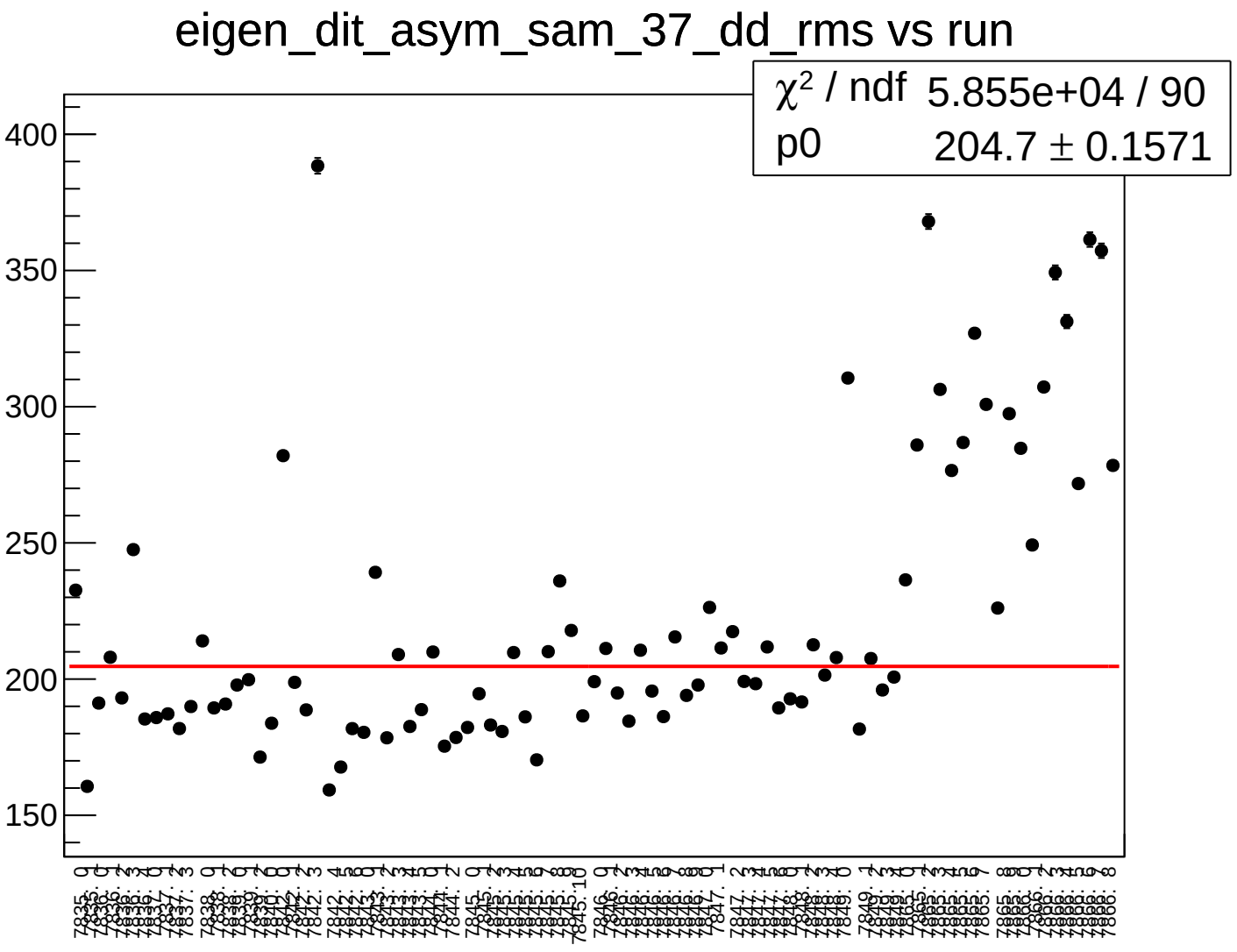

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 78.92 / 90
p0 −137.2 ± 1329
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 113.1
Std Dev 0
2
1
0
−1
−2

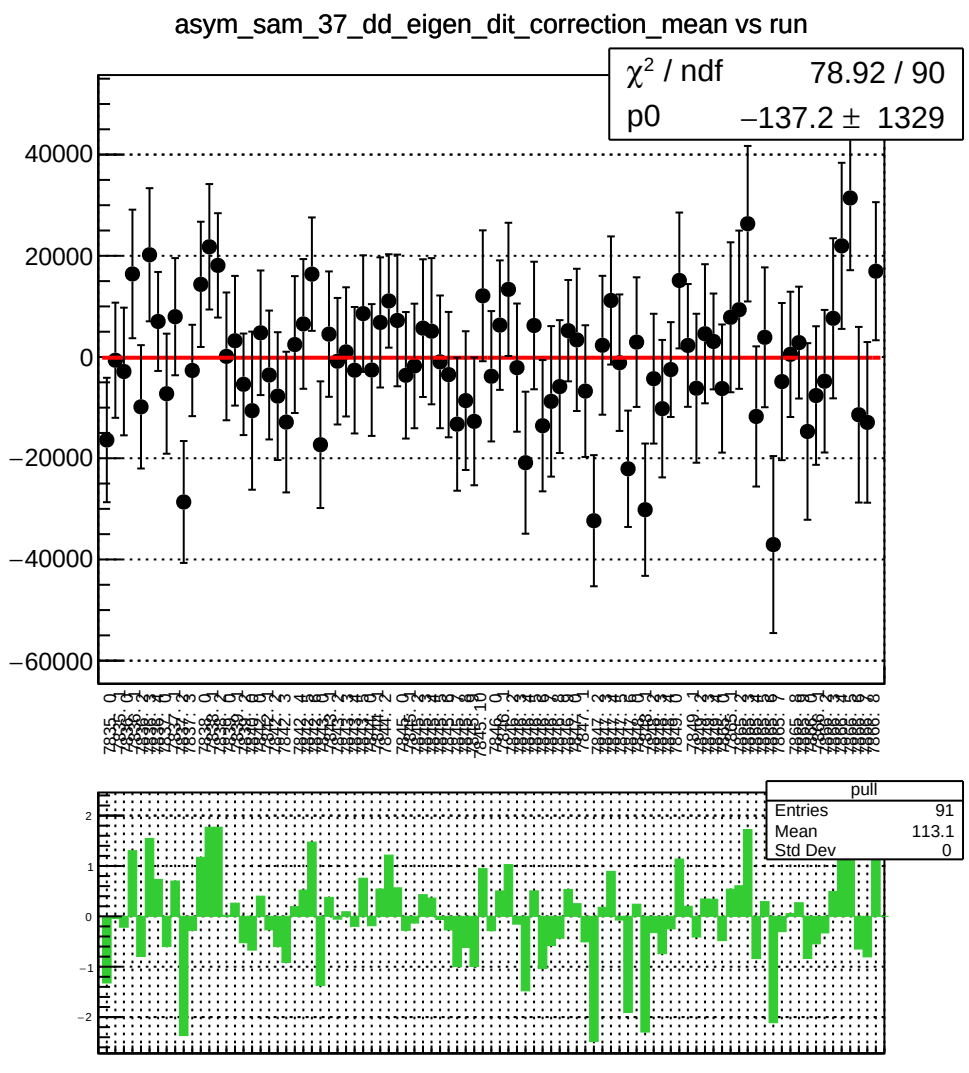

pull1D
Entries 91
Mean −0.01681
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

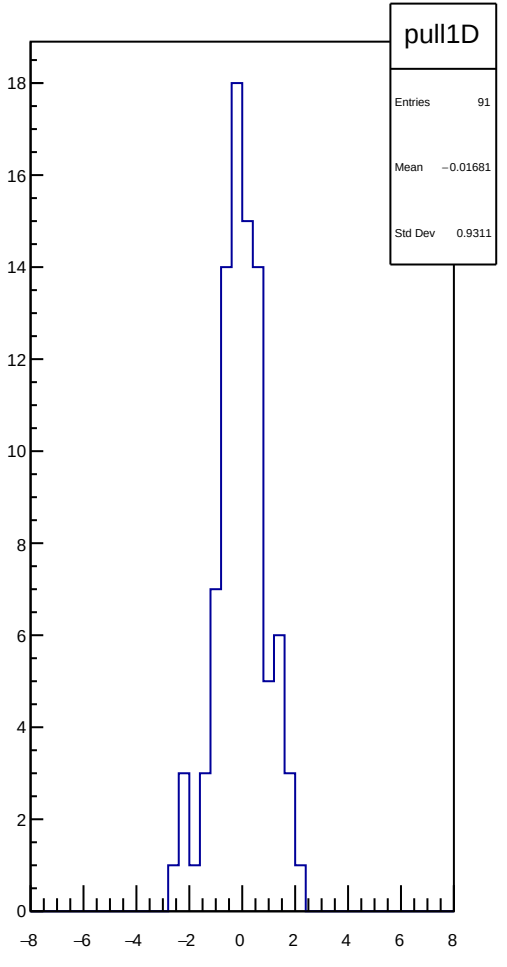

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.201e+04 / 90
p0 1241 ± 0.9398
1700
1600
1500
1400
1300
1200
1100

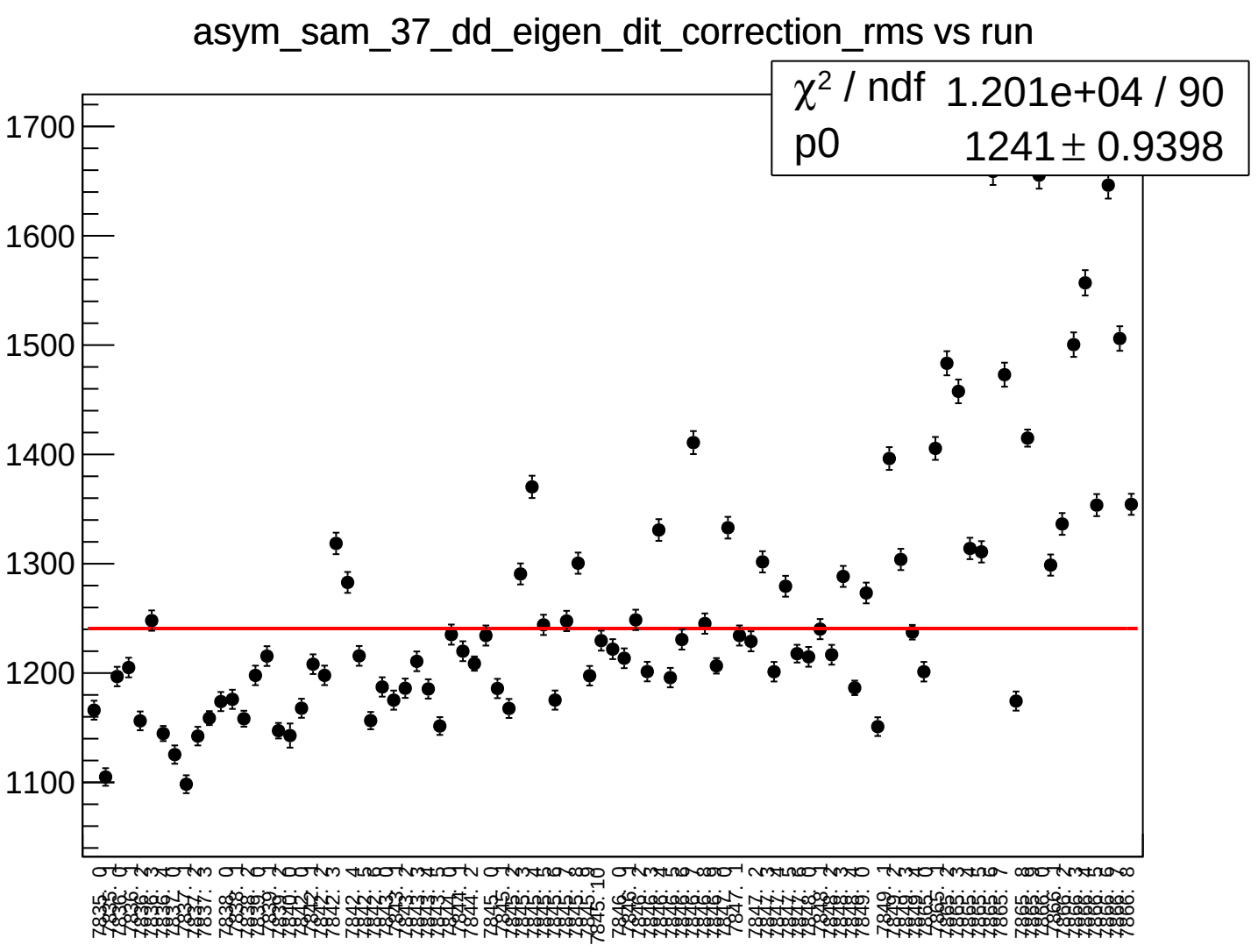

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 75.42 / 90
p0 190.1 ± 222.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 57.94
Std Dev 30.13
2
1
0
−1
−2

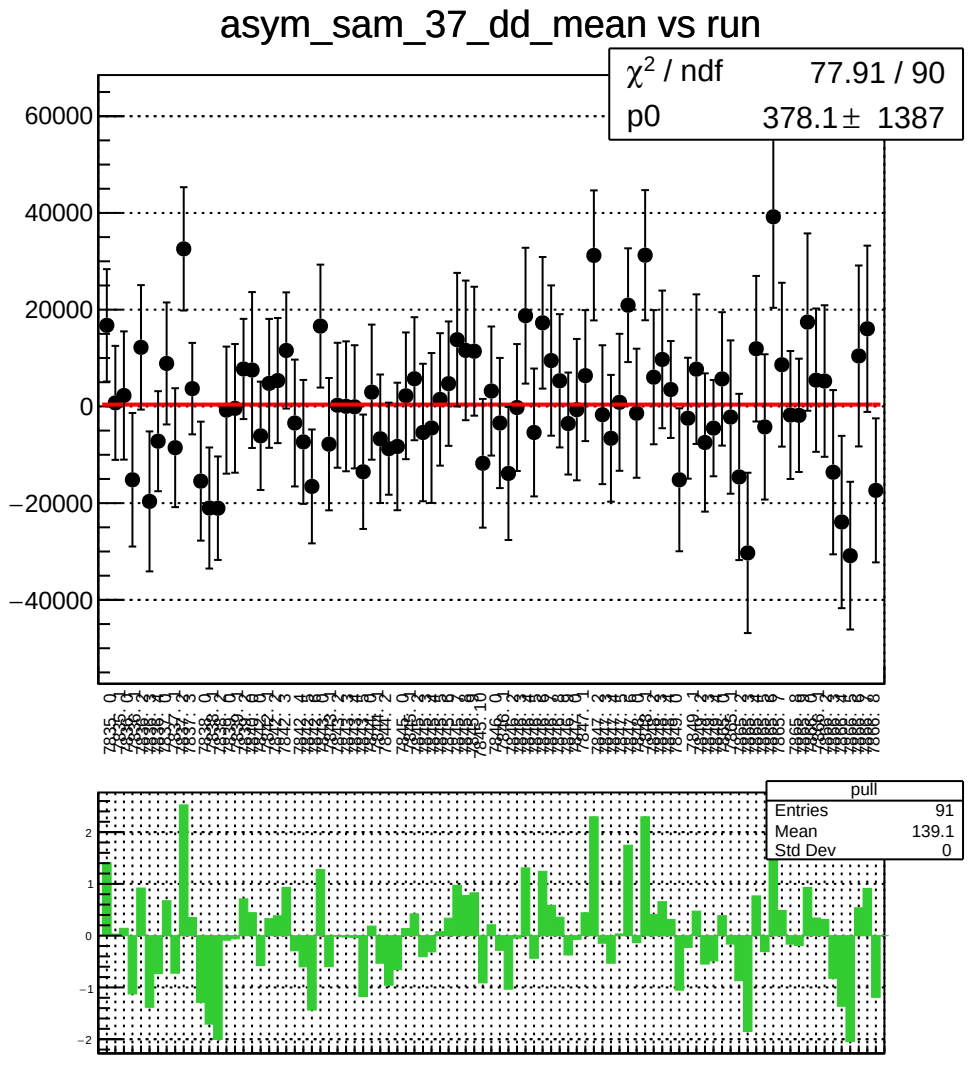

pull1D
Entries 91
Mean −0.01946
Std Dev 0.9102
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

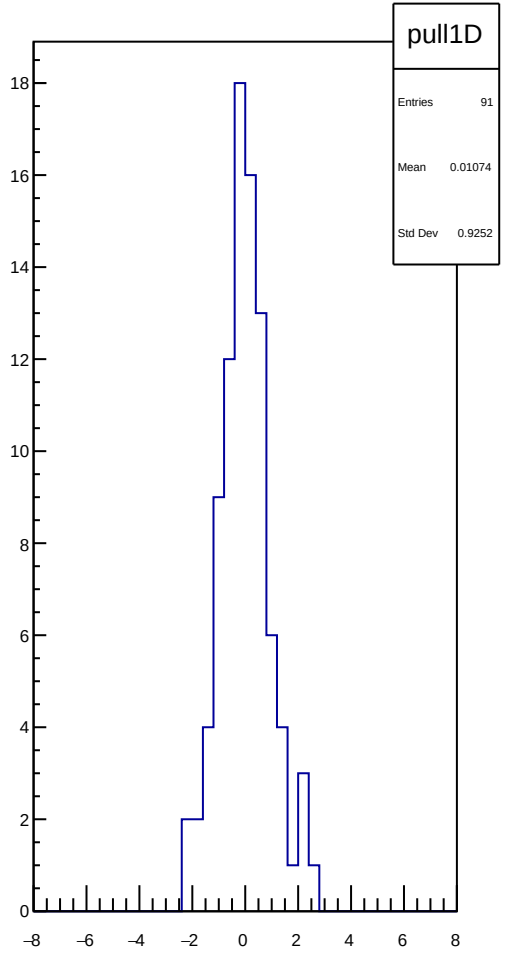

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 5.855e+04 / 90
p0 204.7 ± 0.1571
400
350
300
250
200
150

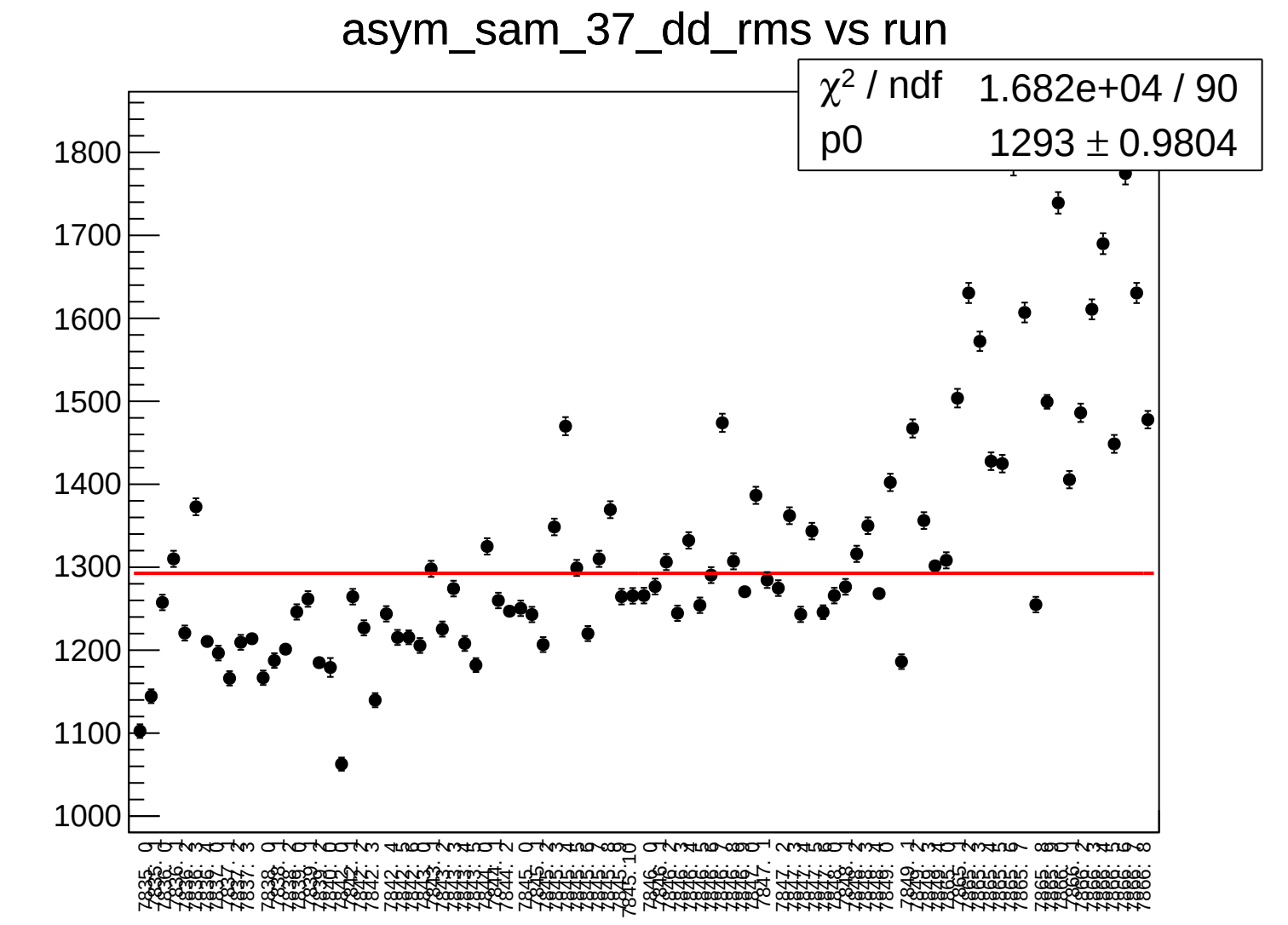

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.92 / 90
p0 −137.2 ± 1329
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 113.1
Std Dev 0
2
1
0
−1
−2

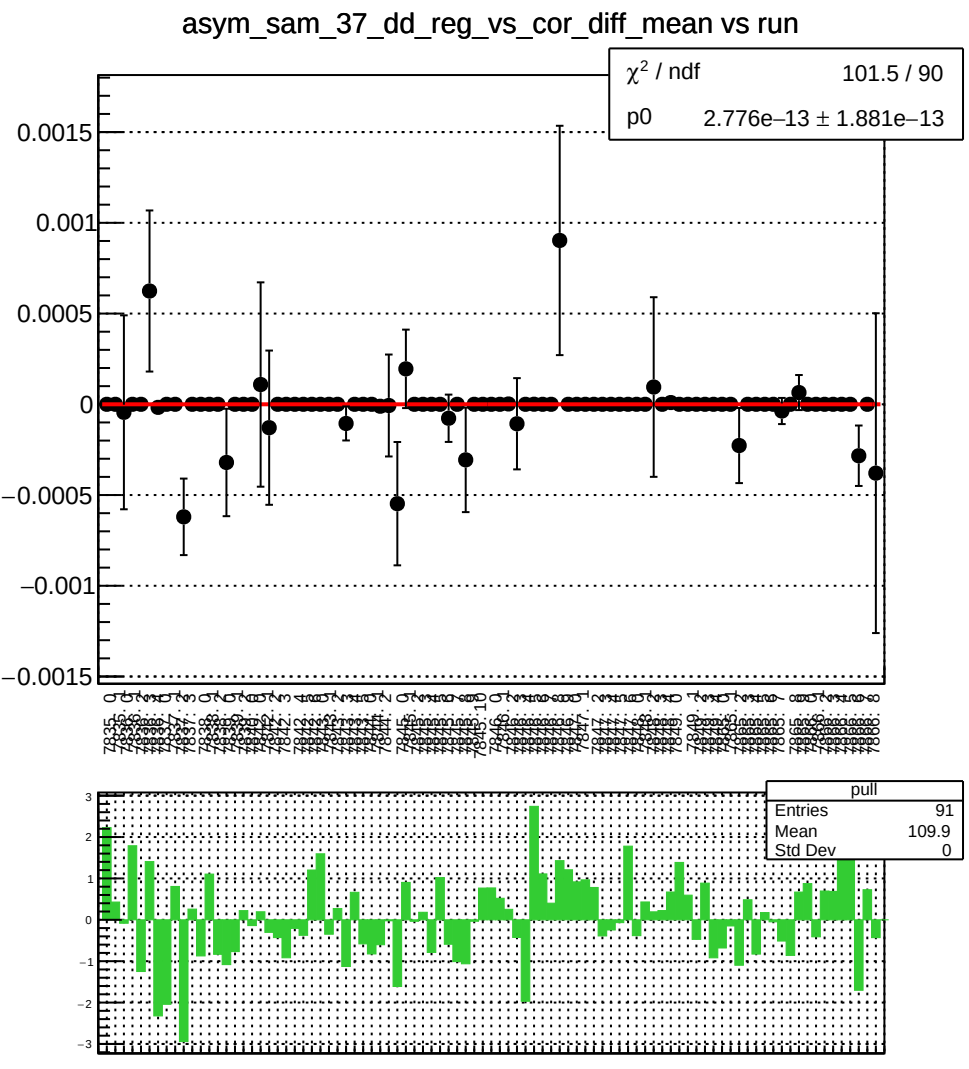

pull1D
Entries 91
Mean −0.01681
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

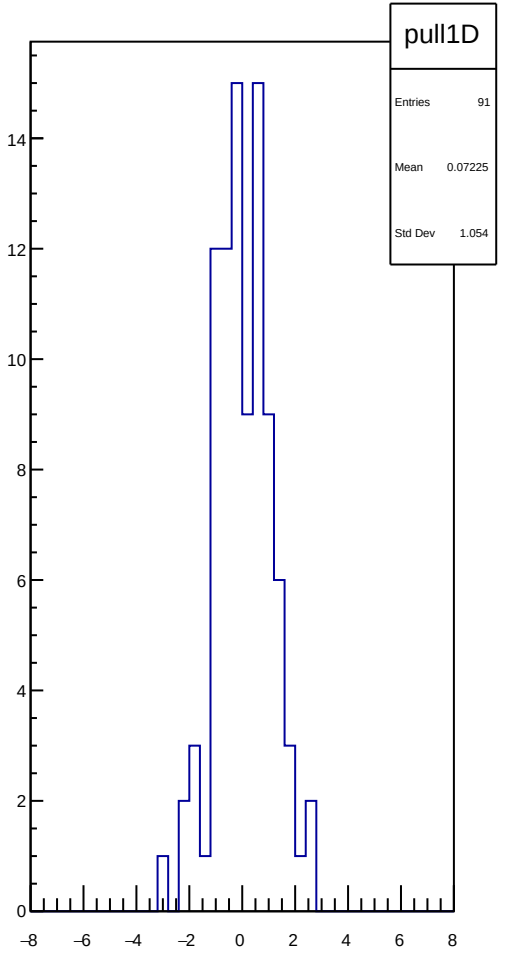

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.201e+04 / 90
p0 1241 ± 0.9398
1700
1600
1500
1400
1300
1200
1100

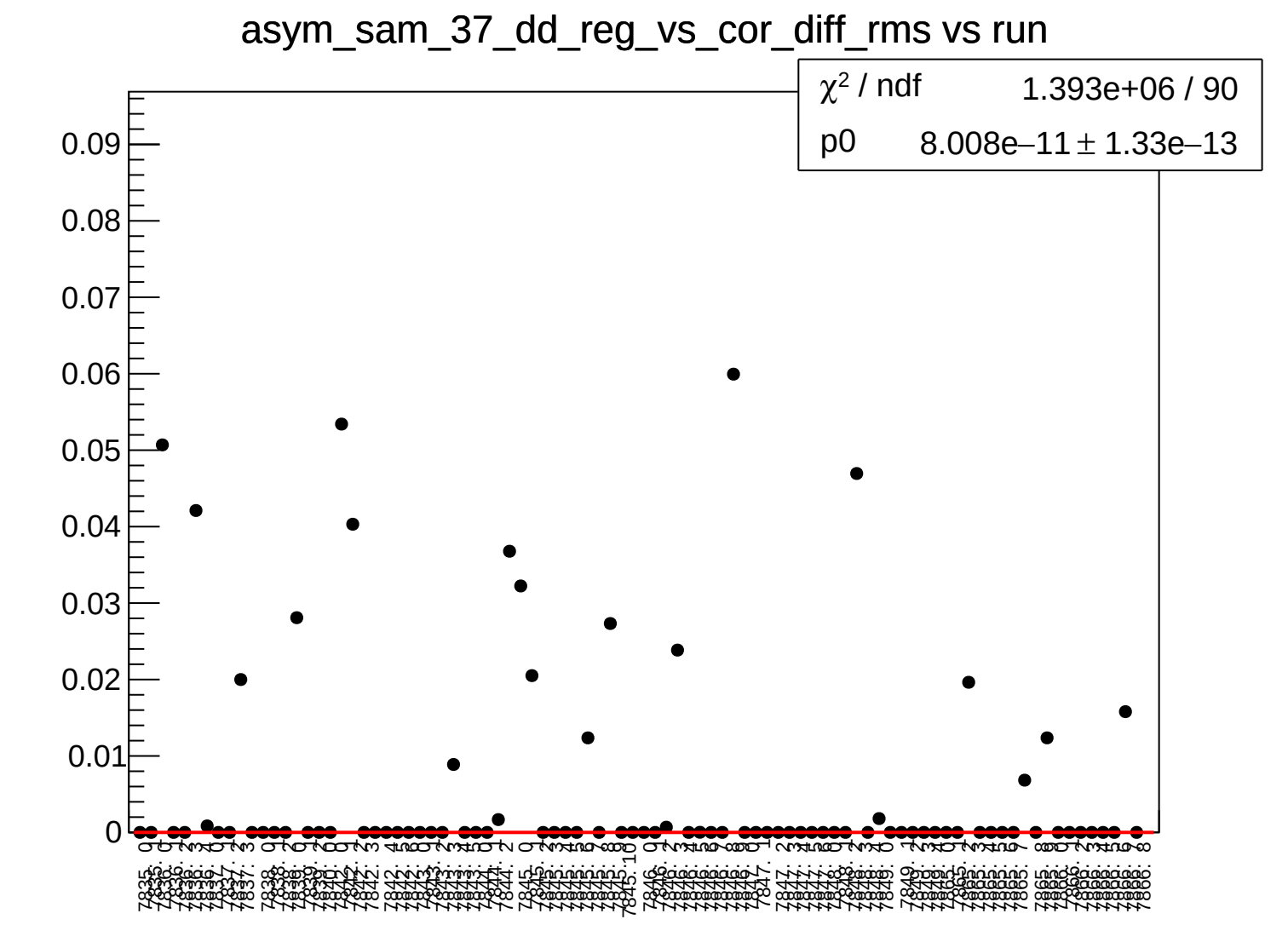

asym_sam_37_dd_mean vs run
χ² / ndf 77.91 / 90
p0 378.1 ± 1387
pull
Entries 91
Mean 139.1
Std Dev 0

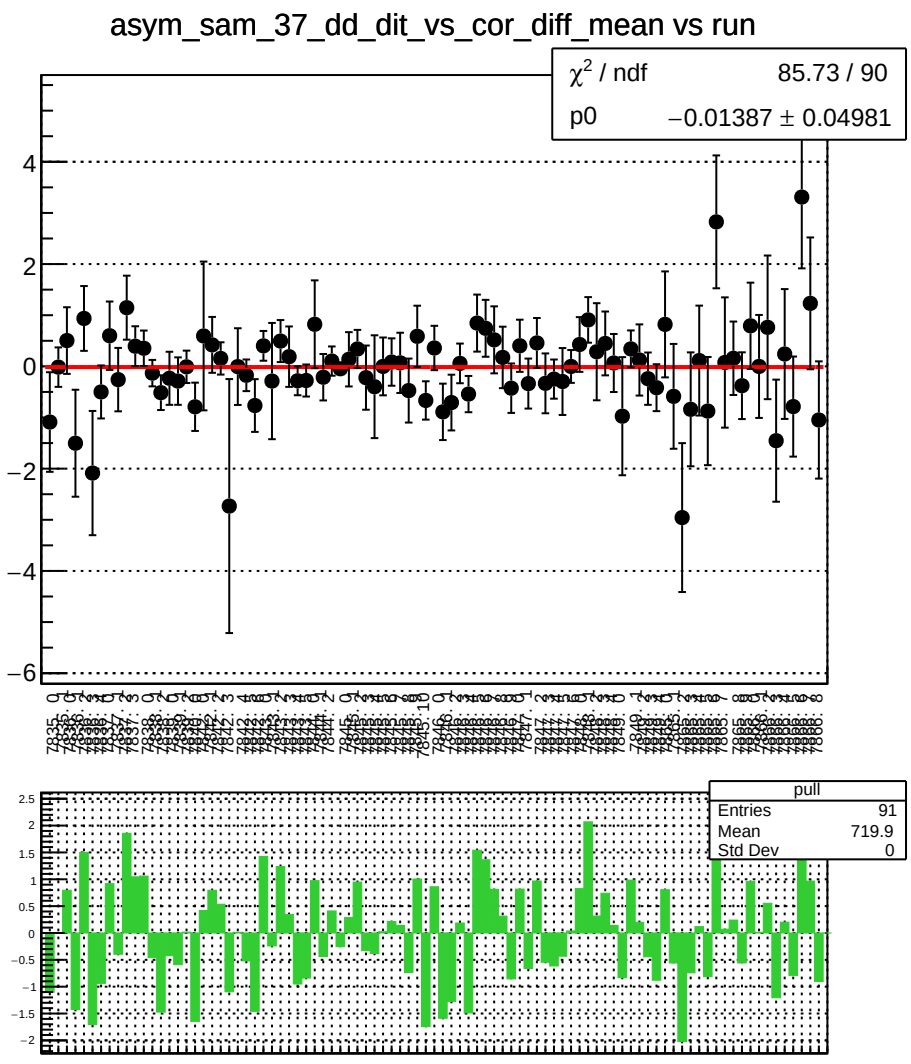

pull1D
Entries 91
Mean 0.01074
Std Dev 0.9252

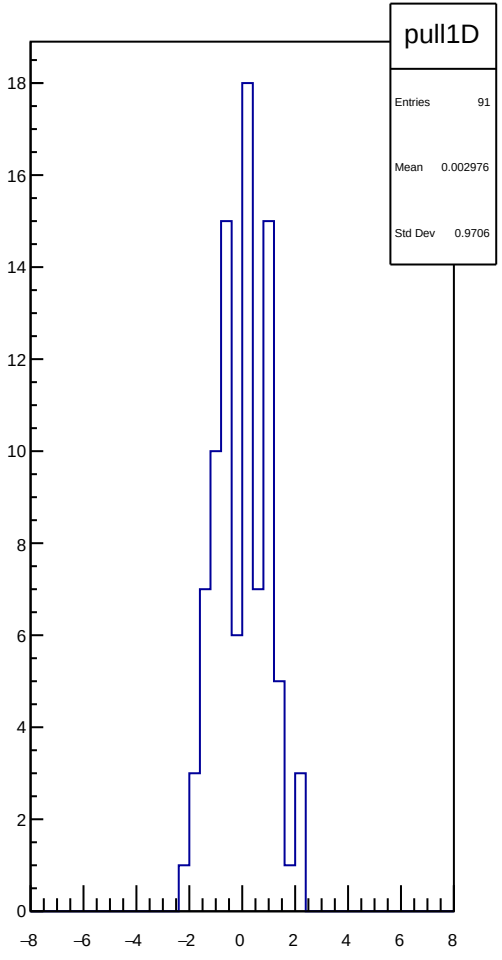

asym_sam_37_dd_rms vs run
χ² / ndf 1.682e+04 / 90
p0 1293 ± 0.9804
1800
1700
1600
1500
1400
1300
1200
1100
1000

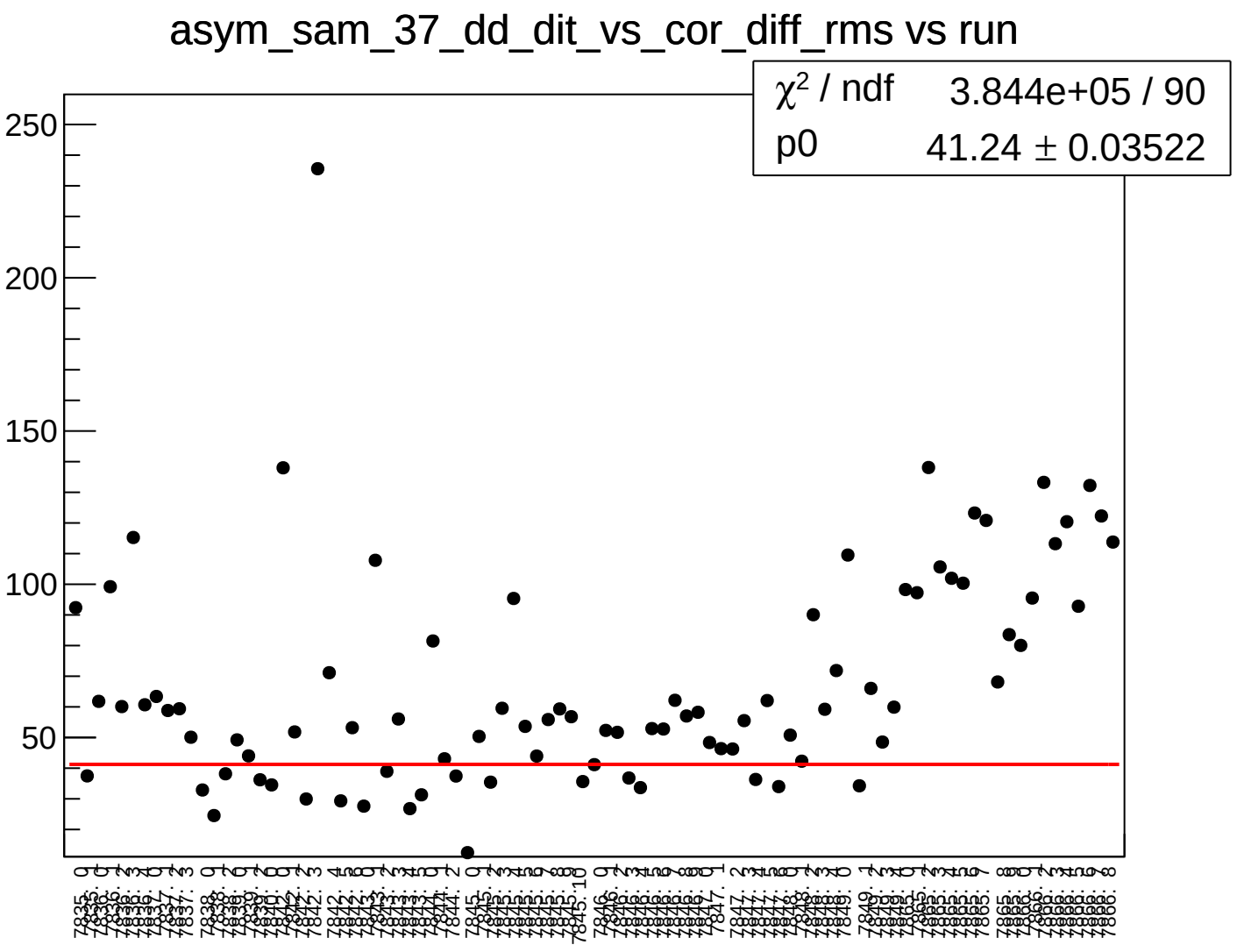

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 90
p0 2.776e−13 ± 1.881e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 109.9
Std Dev 0
3
2
1
0
−1
−2
−3

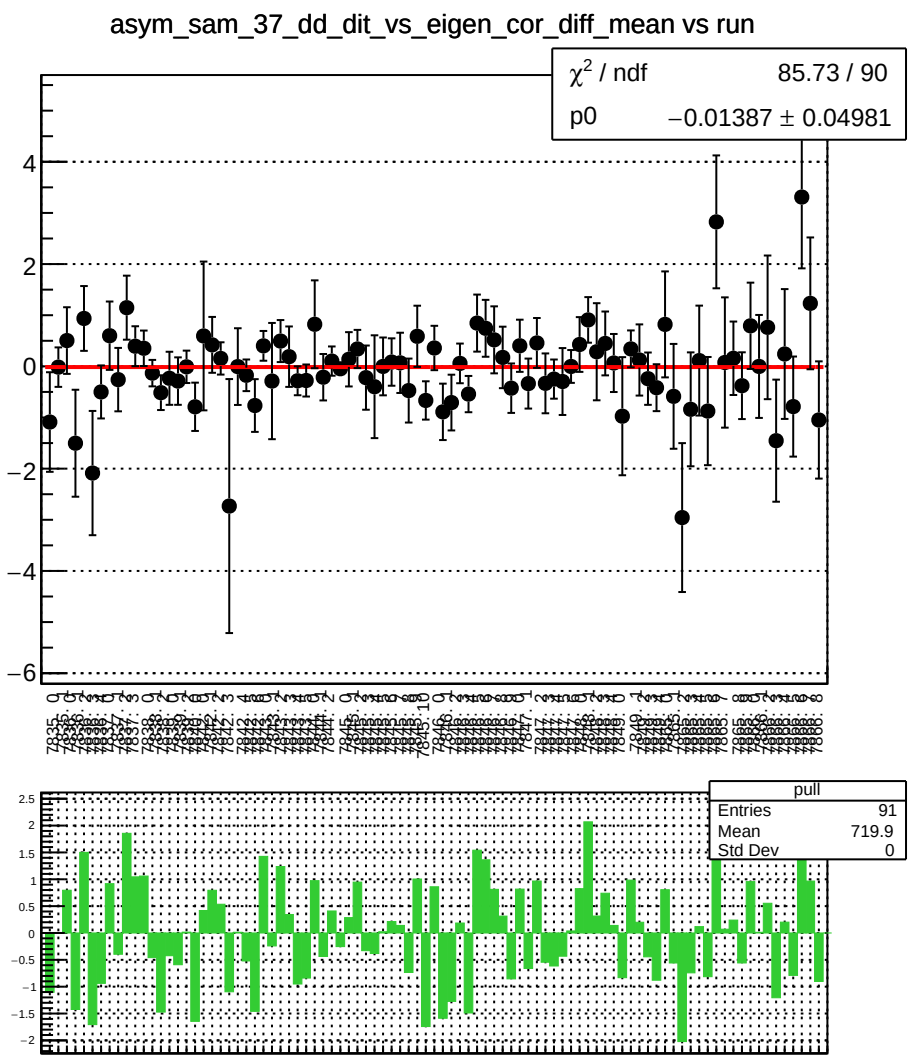

pull1D
Entries 91
Mean 0.07225
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

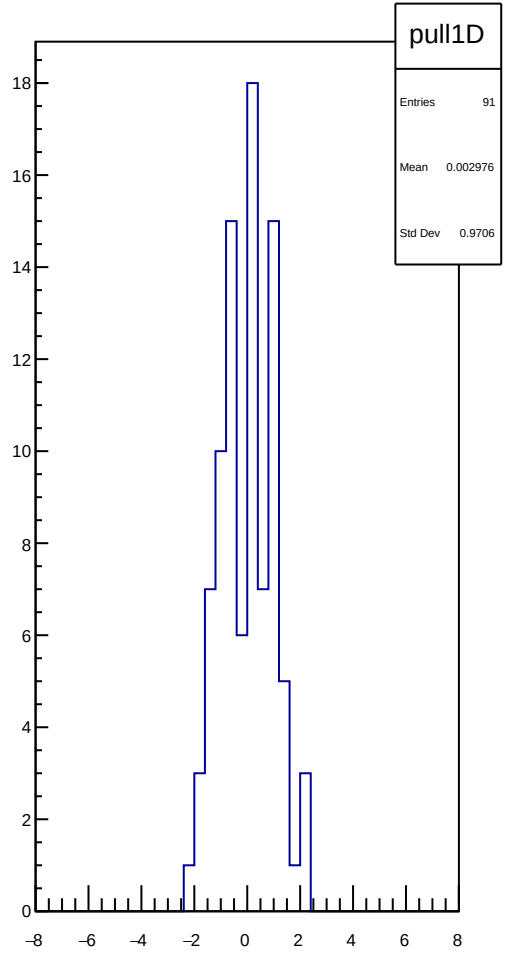

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.393e+06 / 90
p0 8.008e−11 ± 1.33e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

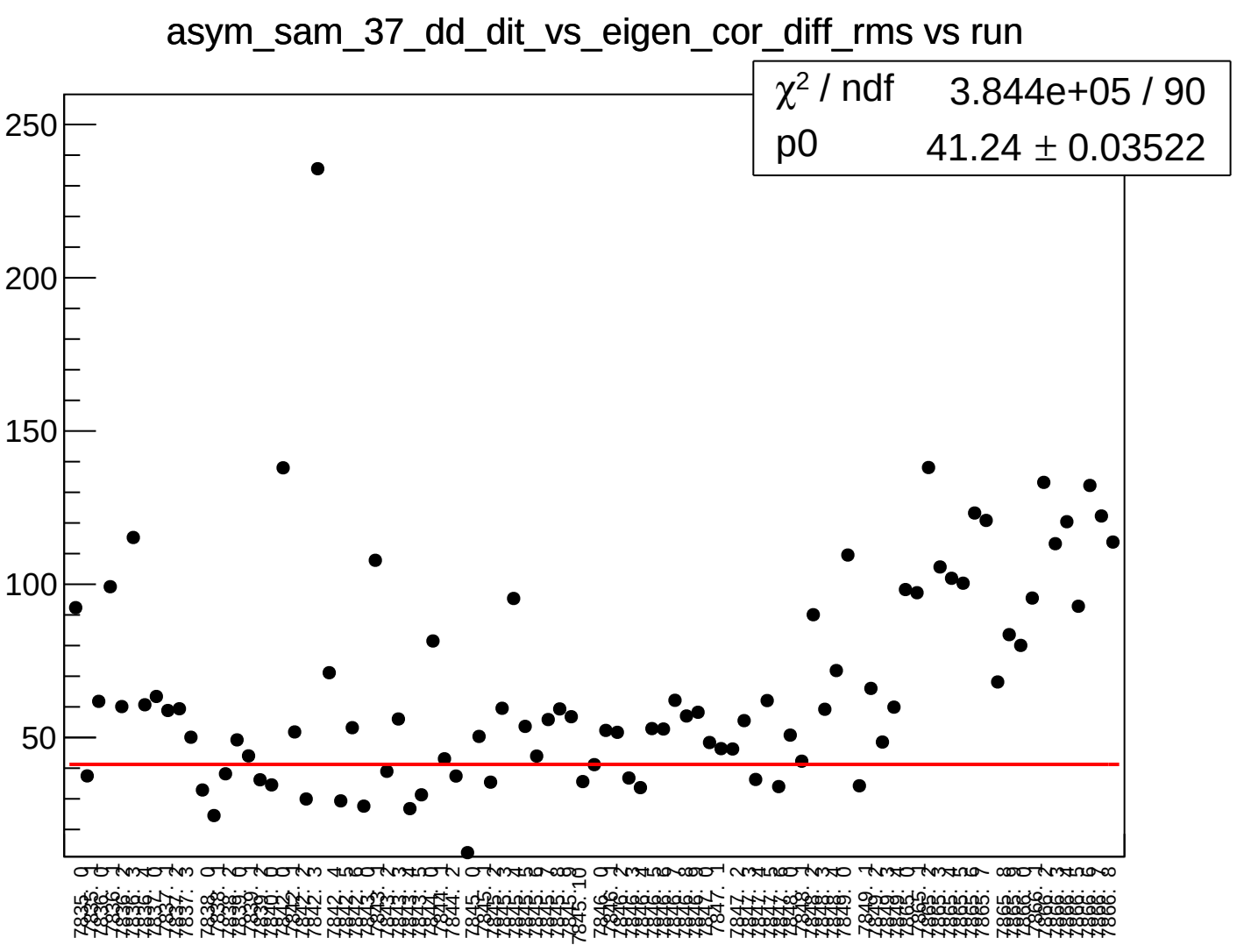

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.73 / 90
p0 −0.01387 ± 0.04981
pull
Entries 91
Mean 719.9
Std Dev 0

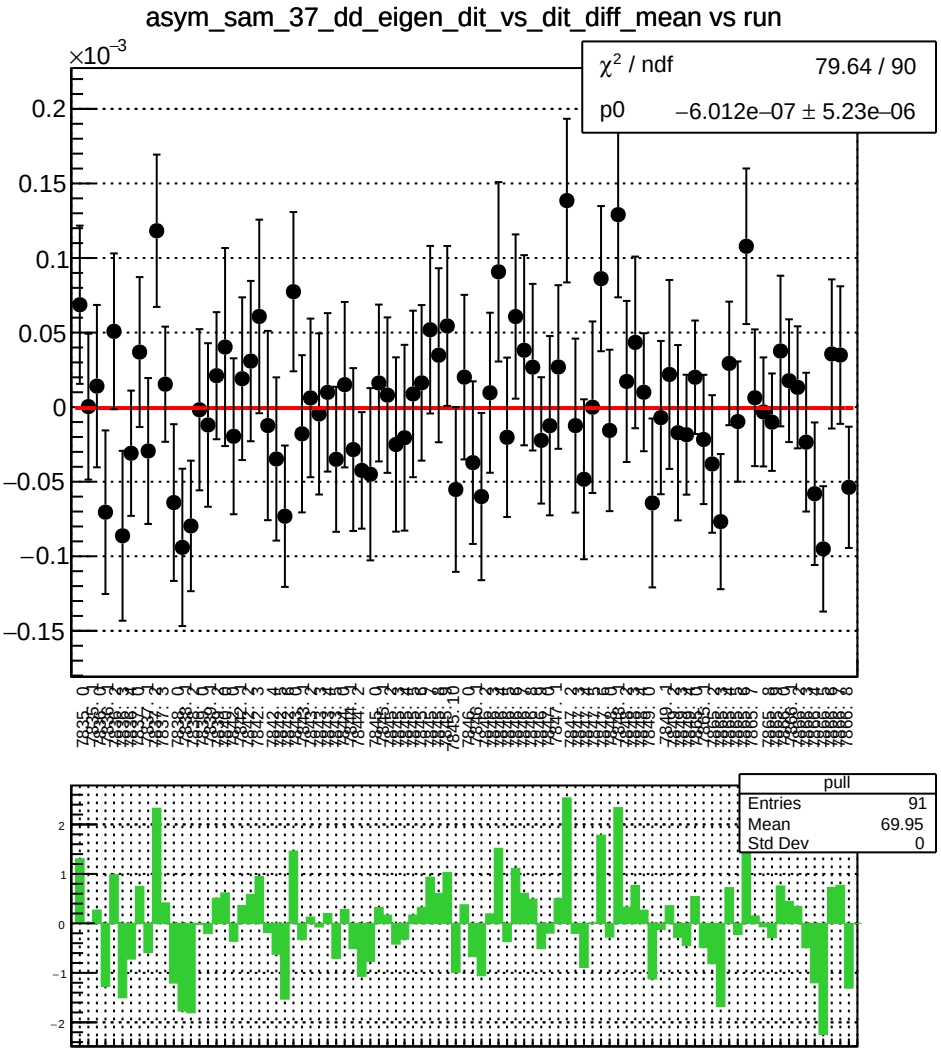

pull1D
Entries 91
Mean 0.002976
Std Dev 0.9706

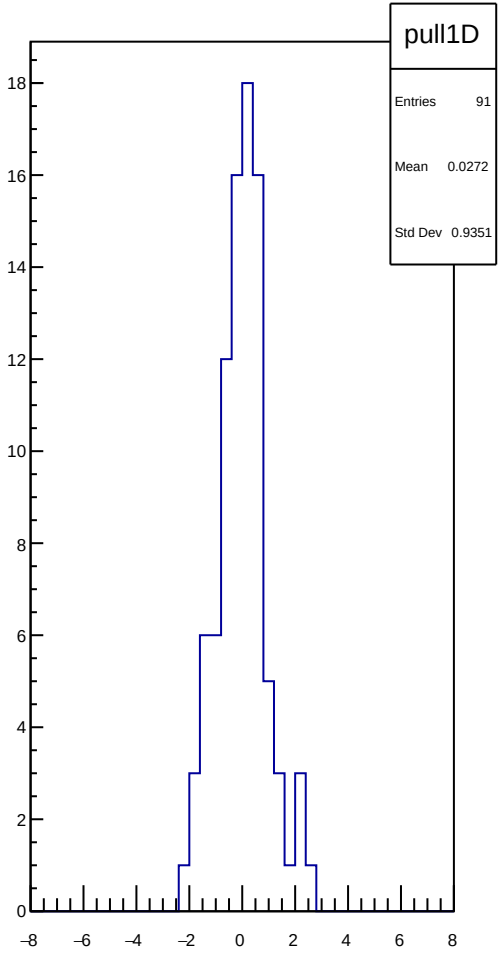

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.844e+05 / 90
p0 41.24 ± 0.03522
250
200
150
100
50

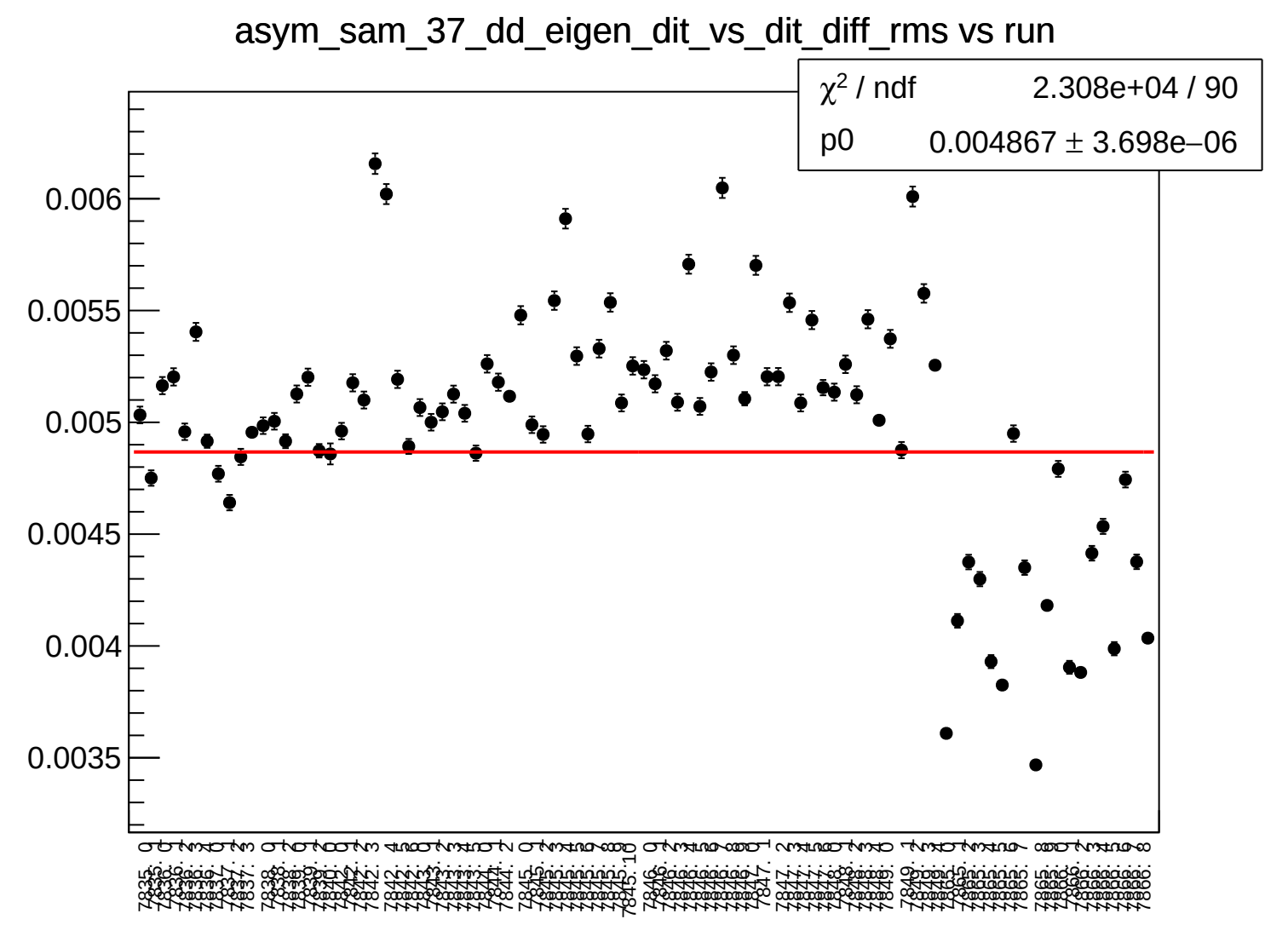

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.73 / 90
p0 −0.01387 ± 0.04981
pull
Entries 91
Mean 719.9
Std Dev 0

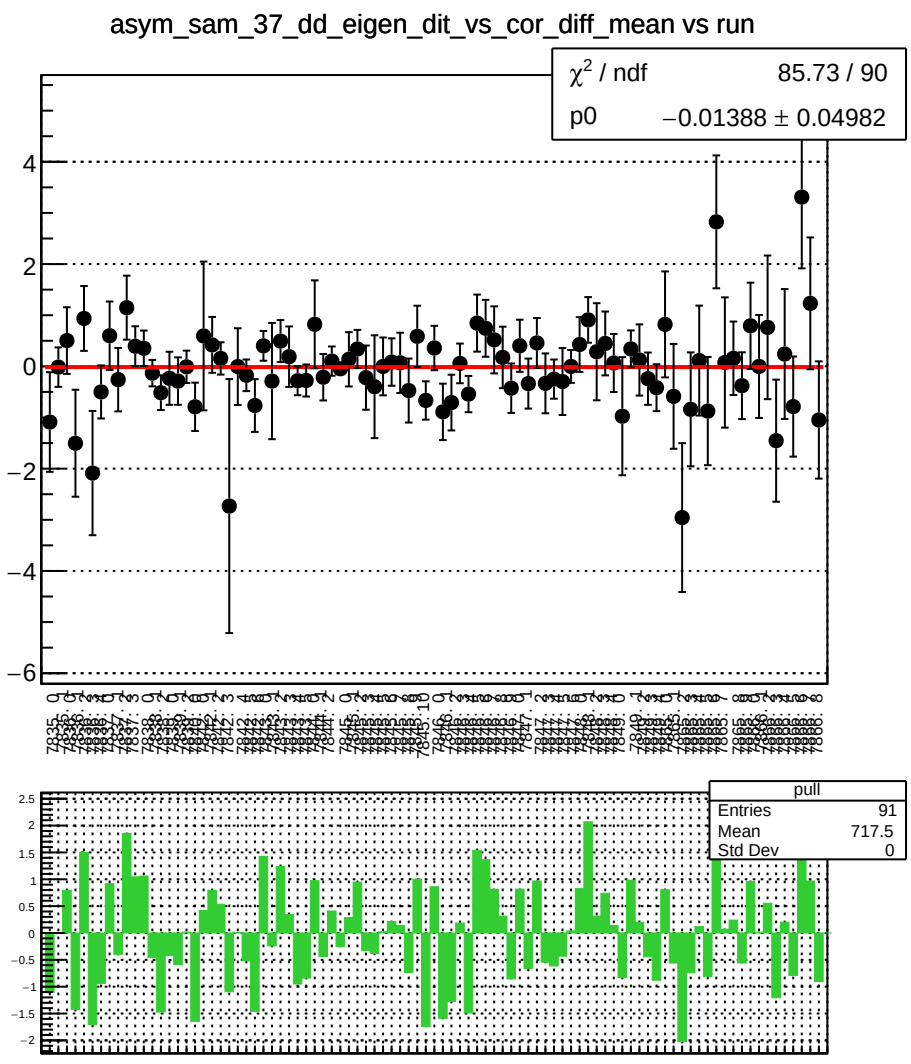

pull1D
Entries 91
Mean 0.002976
Std Dev 0.9706

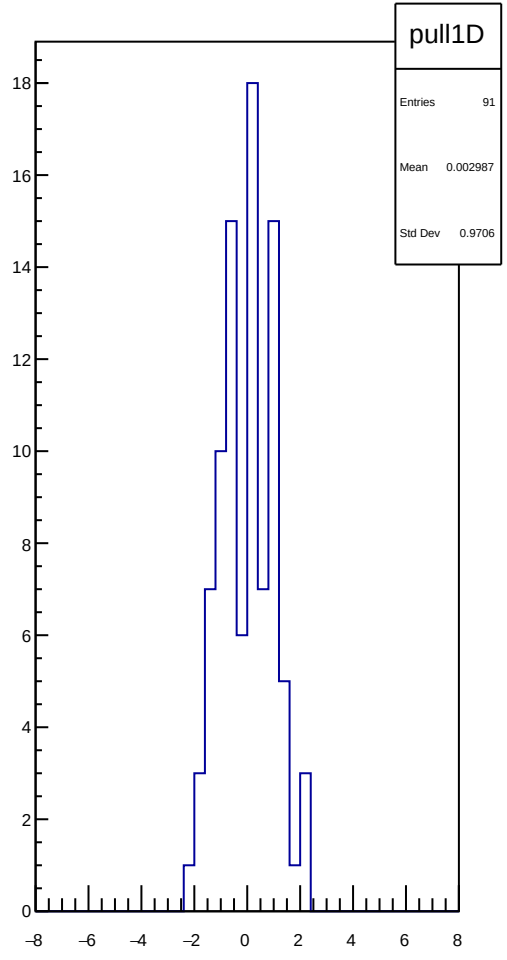

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.844e+05 / 90
p0 41.24 ± 0.03522
250
200
150
100
50

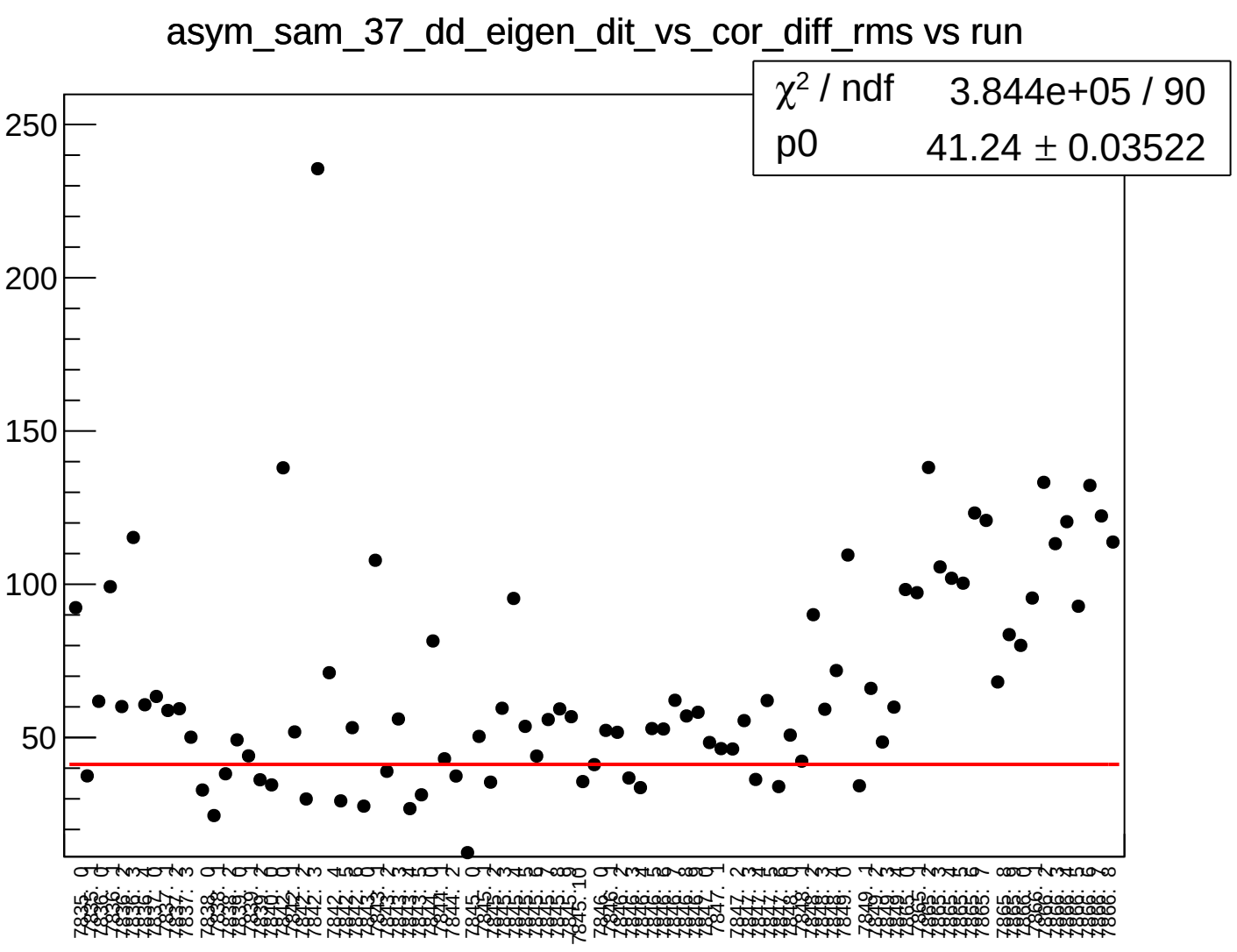

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.64 / 90
p0 −6.012e−07 ± 5.23e−06
pull
Entries 91
Mean 69.95
Std Dev 0

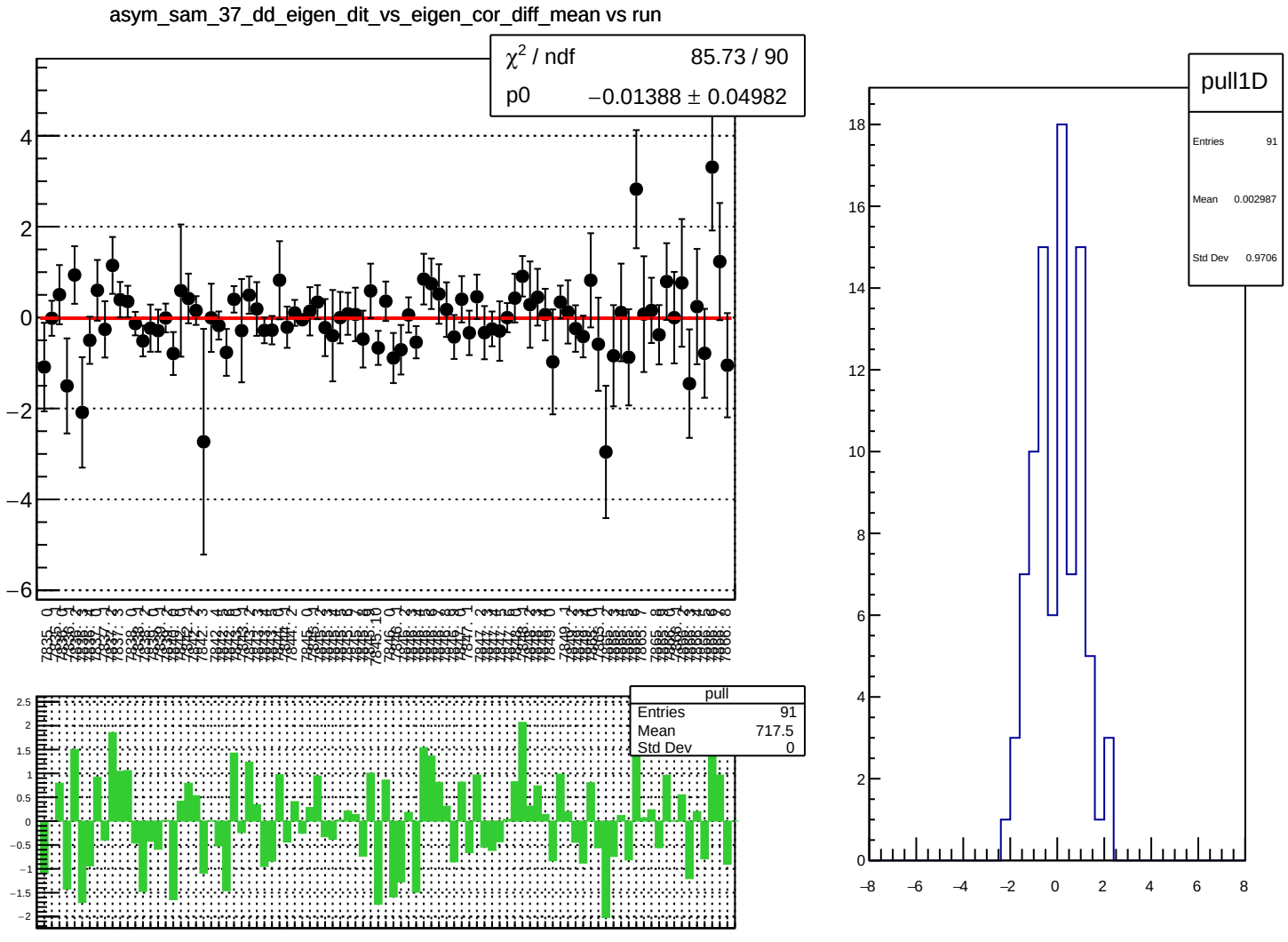

pull1D
Entries 91
Mean 0.0272
Std Dev 0.9351

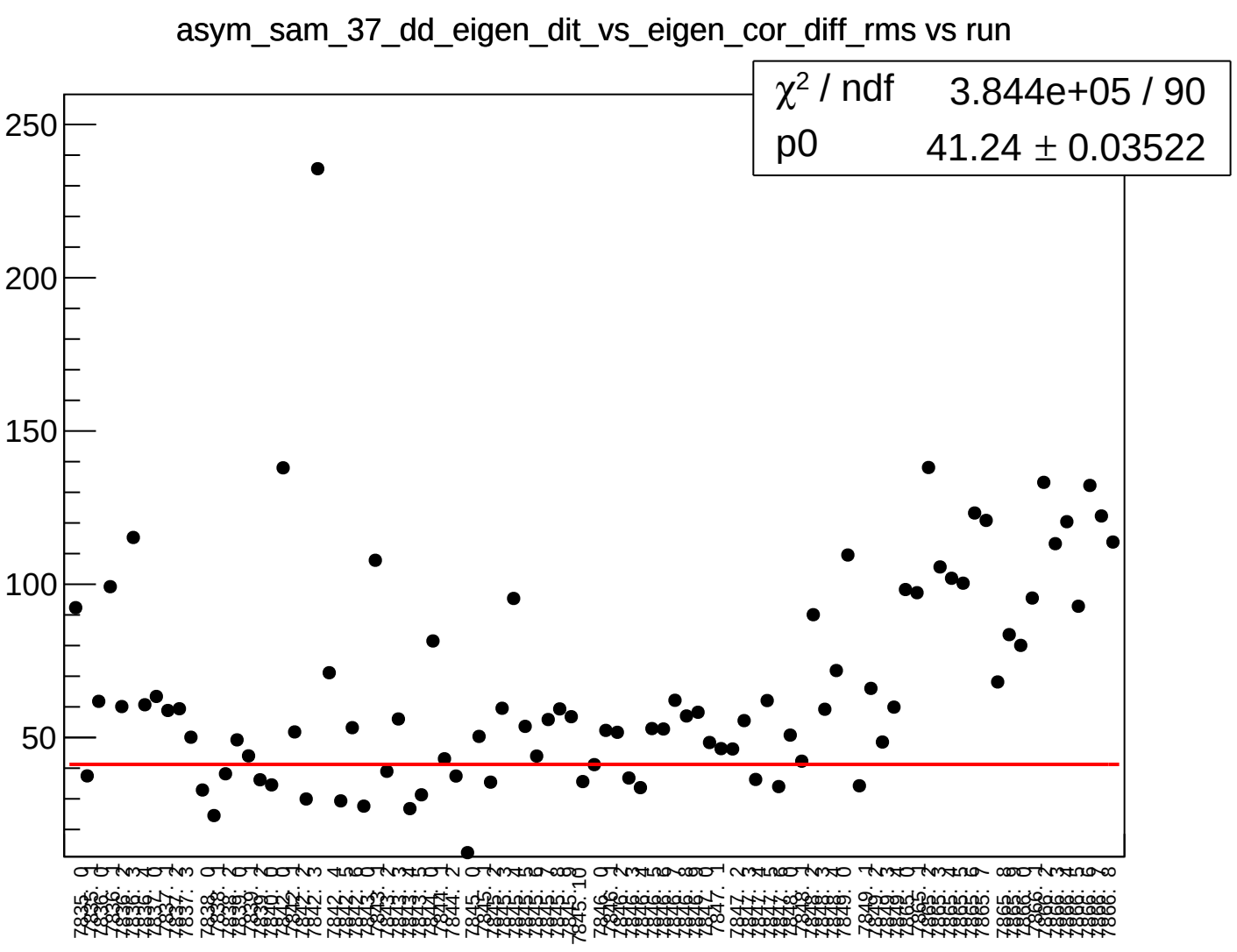

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.308e+04 / 90
p0 0.004867 ± 3.698e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

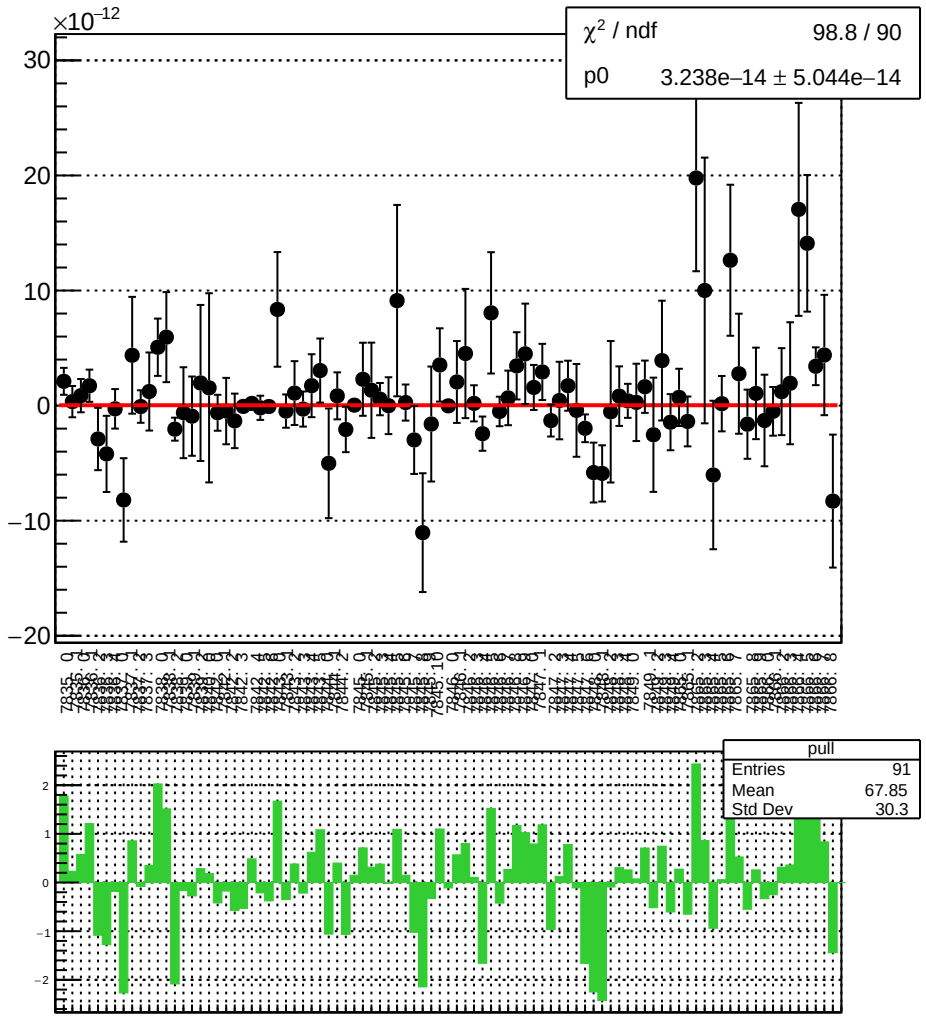

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.73 / 90
p0 −0.01388 ± 0.04982
pull
Entries 91
Mean 717.5
Std Dev 0

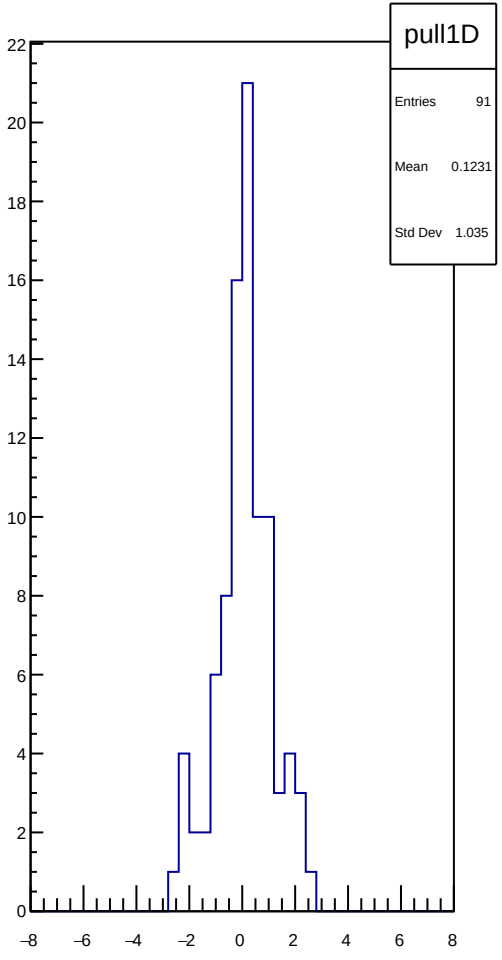

pull1D
Entries 91
Mean 0.002987
Std Dev 0.9706

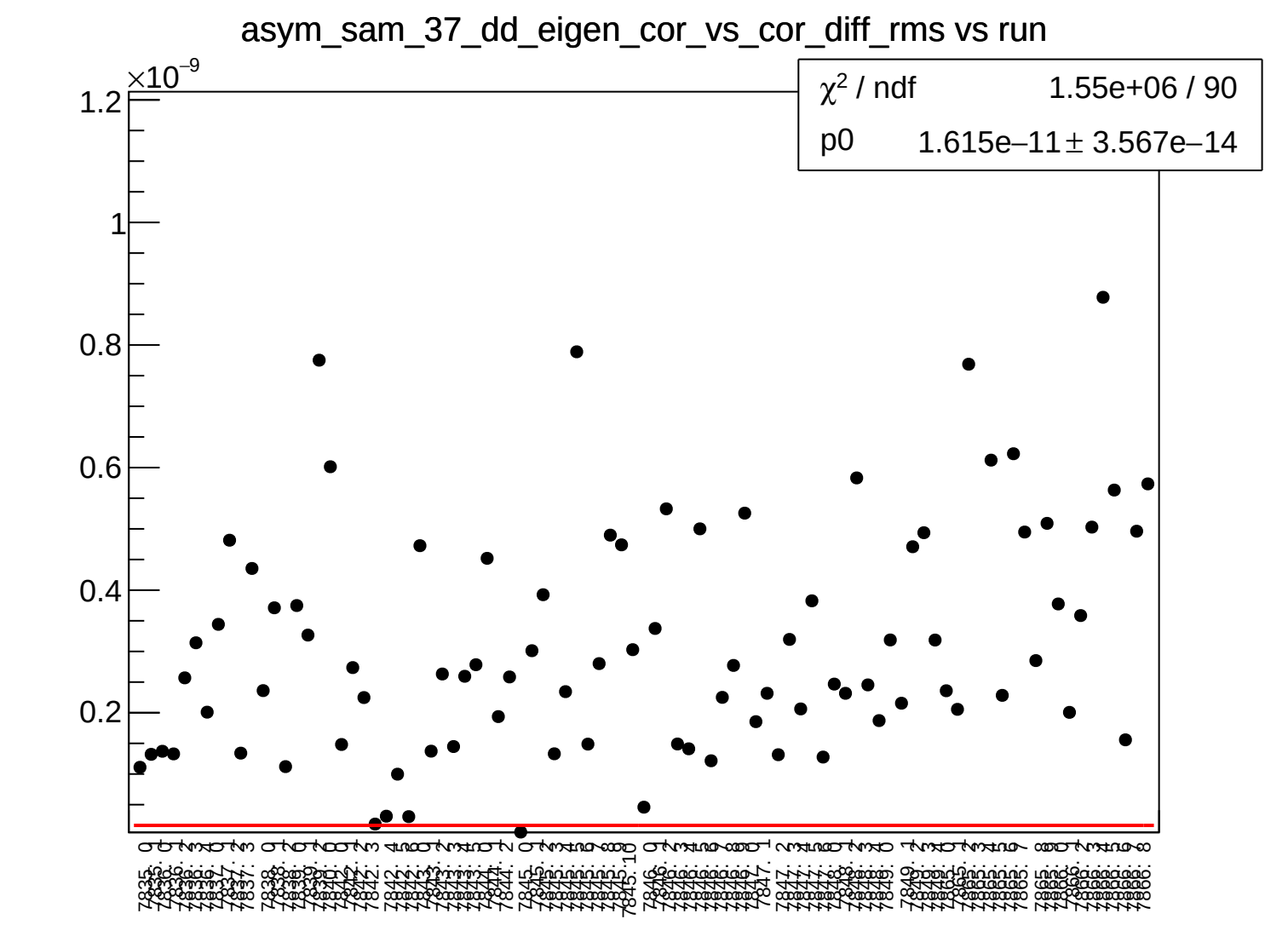

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.844e+05 / 90
p0 41.24 ± 0.03522
250
200
150
100
50

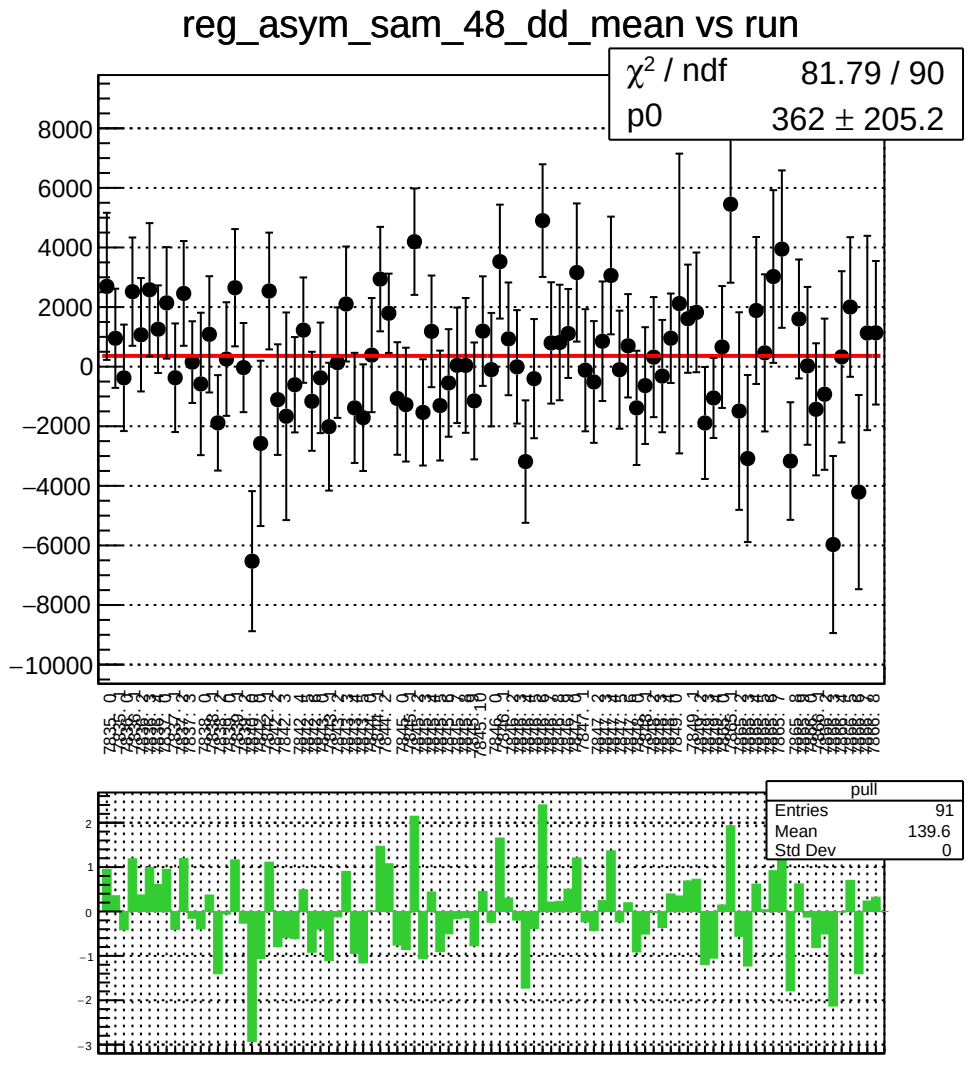

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.73 / 90
p0 −0.01388 ± 0.04982
pull
Entries 91
Mean 717.5
Std Dev 0
pull1D
Entries 91
Mean 0.002987
Std Dev 0.9706

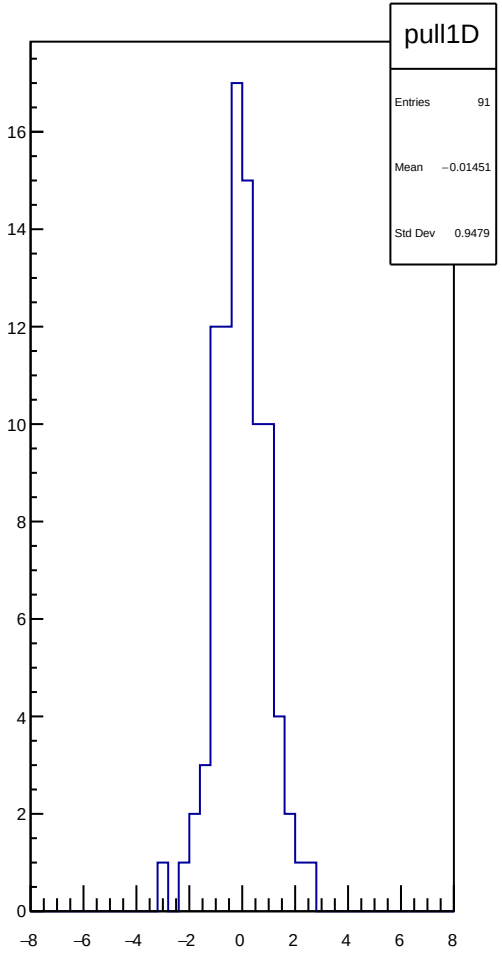

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.844e+05 / 90
p0 41.24 ± 0.03522
250
200
150
100
50

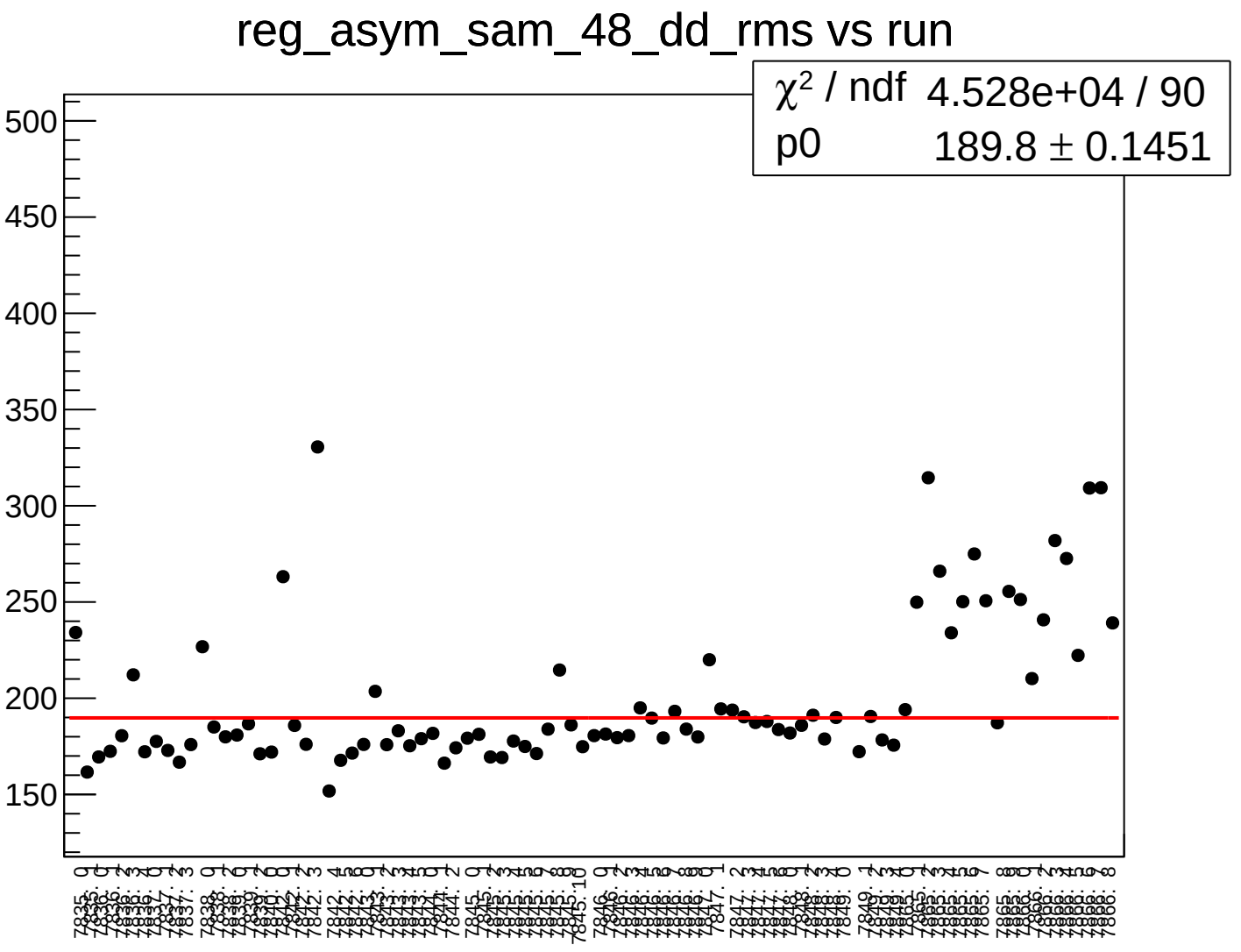

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.8 / 90
p0 3.238e−14 ± 5.044e−14
pull
Entries 91
Mean 67.85
Std Dev 30.3

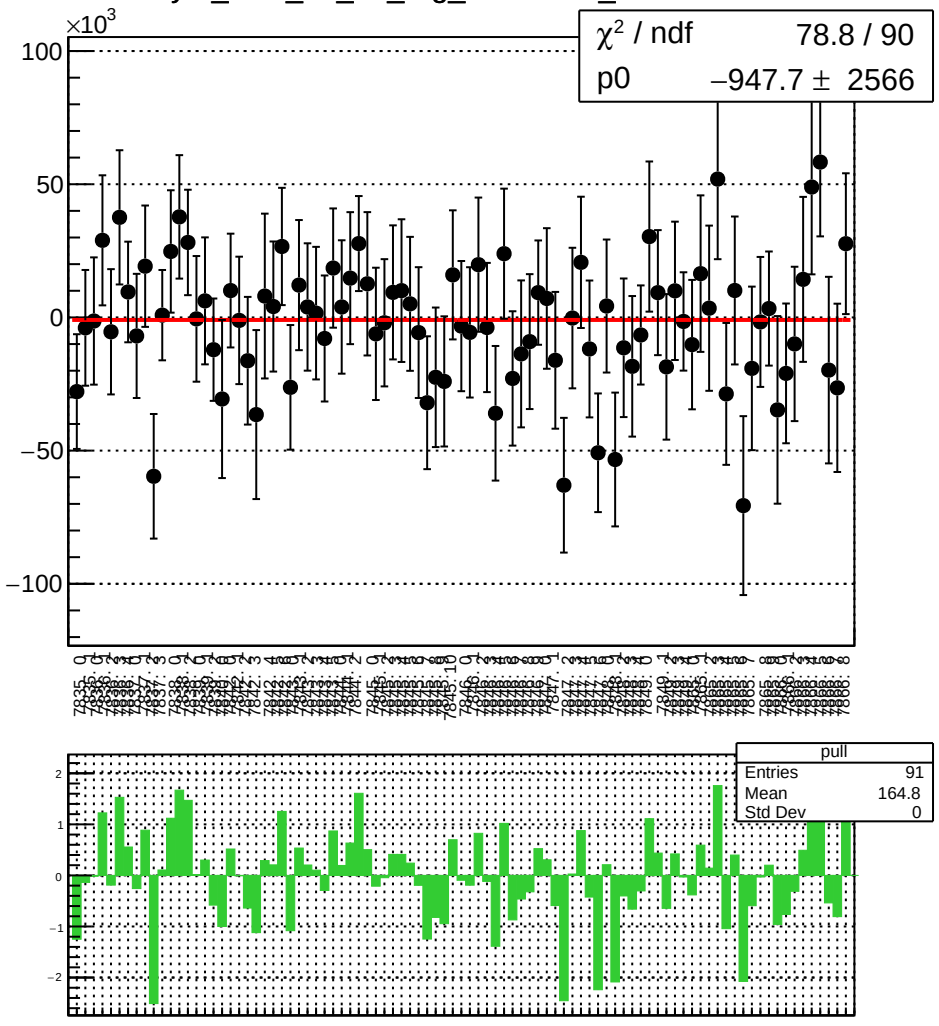

pull1D
Entries 91
Mean 0.1231
Std Dev 1.035

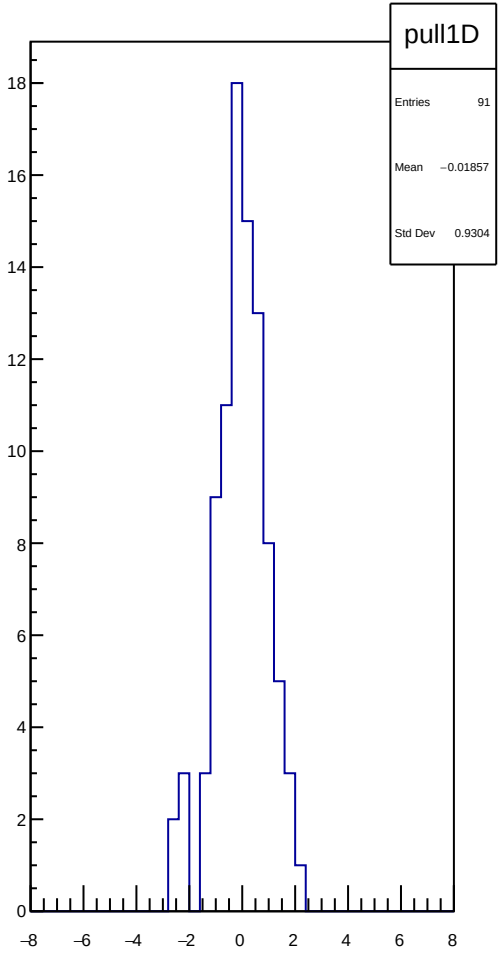

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 1.55e+06 / 90
p0 1.615e−11 ± 3.567e−14

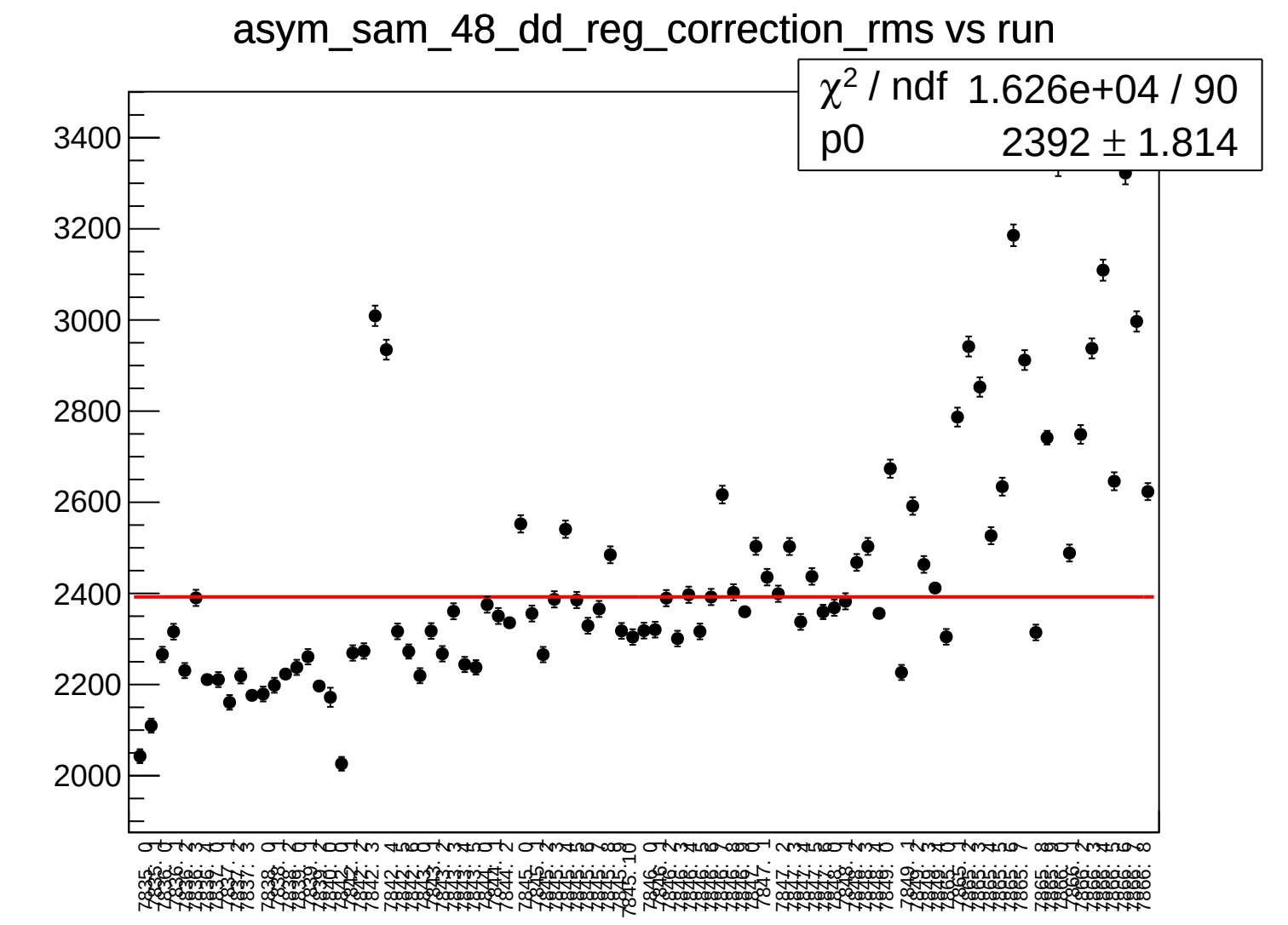

reg_asym_sam_48_dd_mean vs run
χ² / ndf 81.79 / 90
p0 362 ± 205.2
pull
Entries 91
Mean 139.6
Std Dev 0

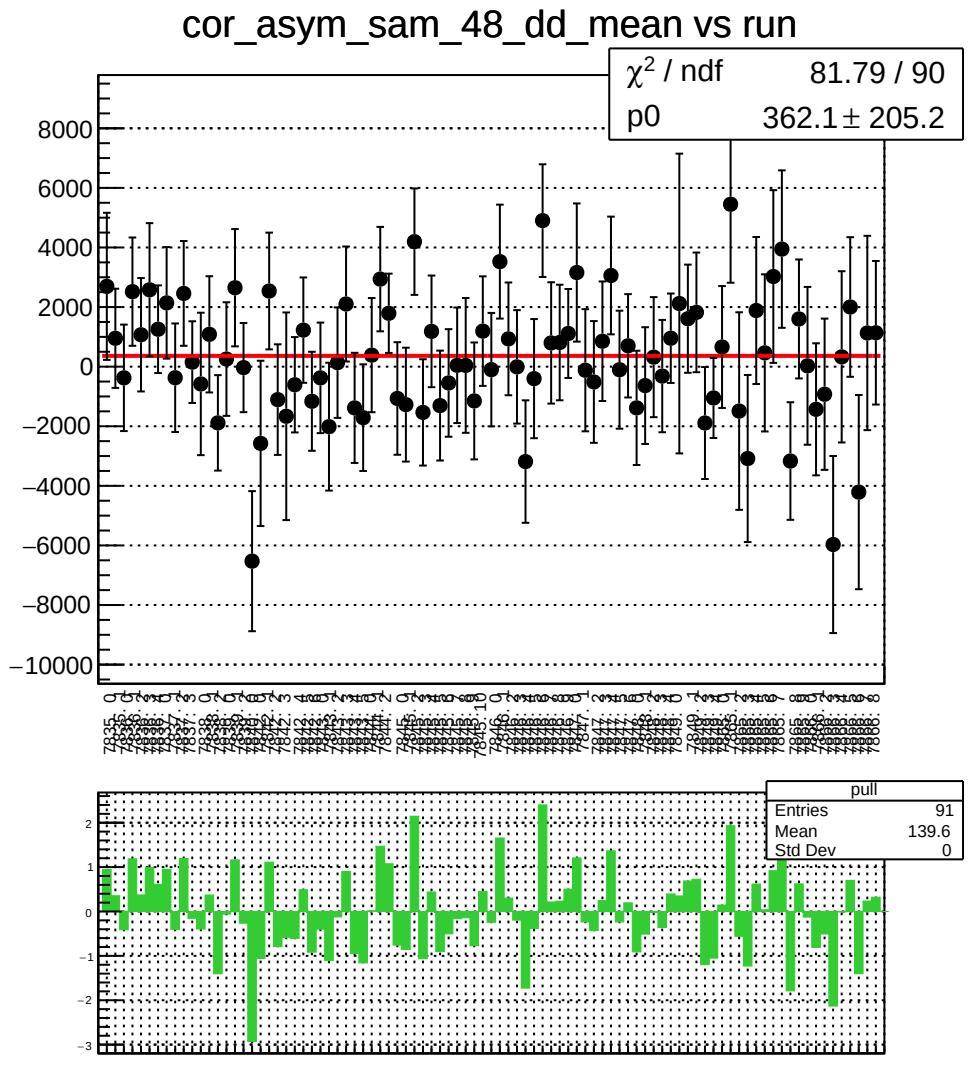

pull1D
Entries 91
Mean −0.01451
Std Dev 0.9479

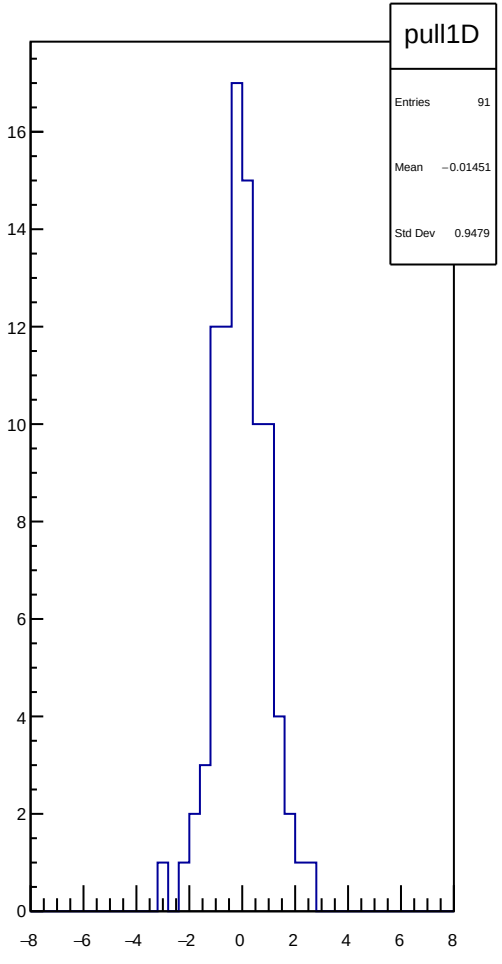

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4.528e+04 / 90
p0 189.8 ± 0.1451
500
450
400
350
300
250
200
150

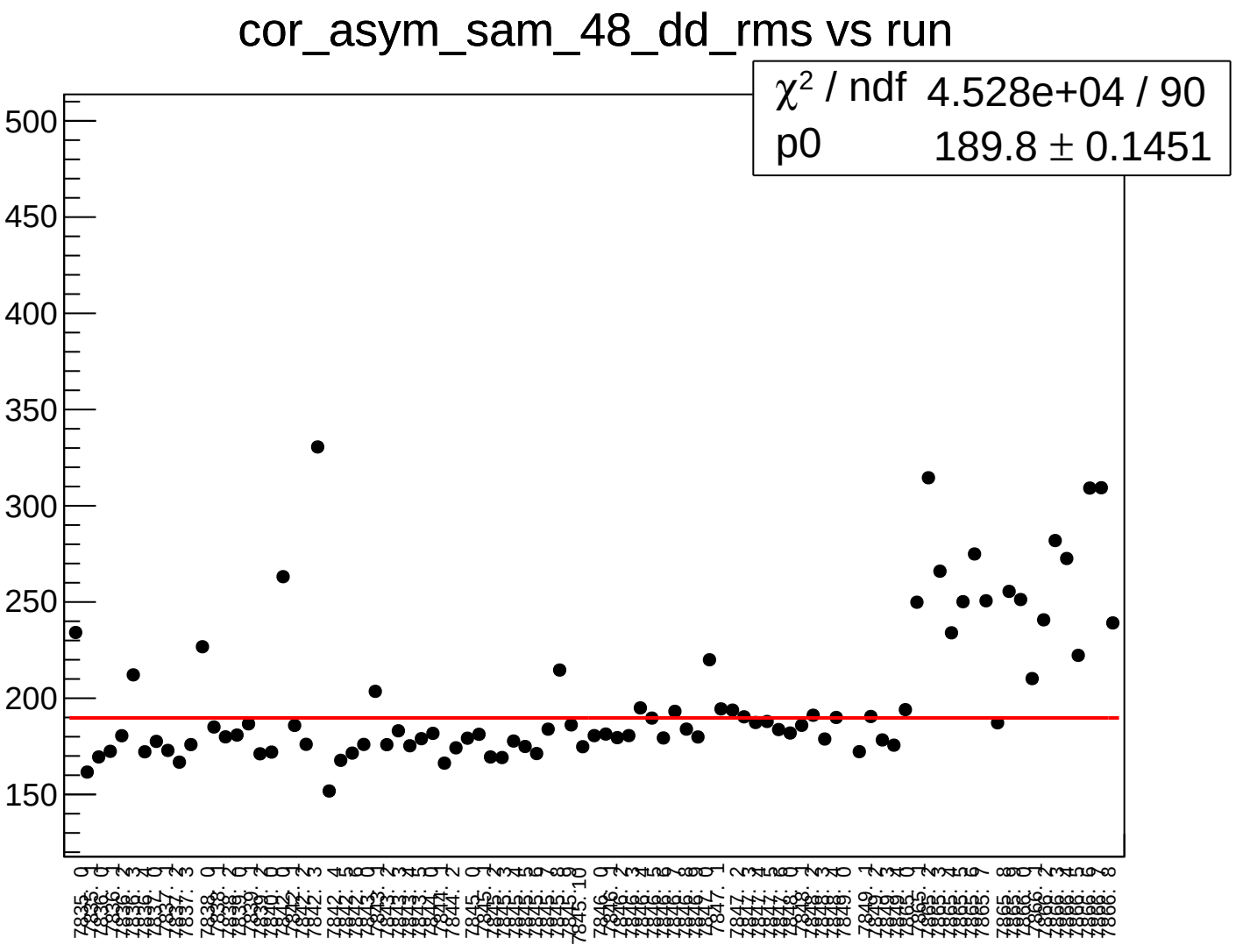

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.8 / 90
p0 −947.7 ± 2566
pull
Entries 91
Mean 164.8
Std Dev 0

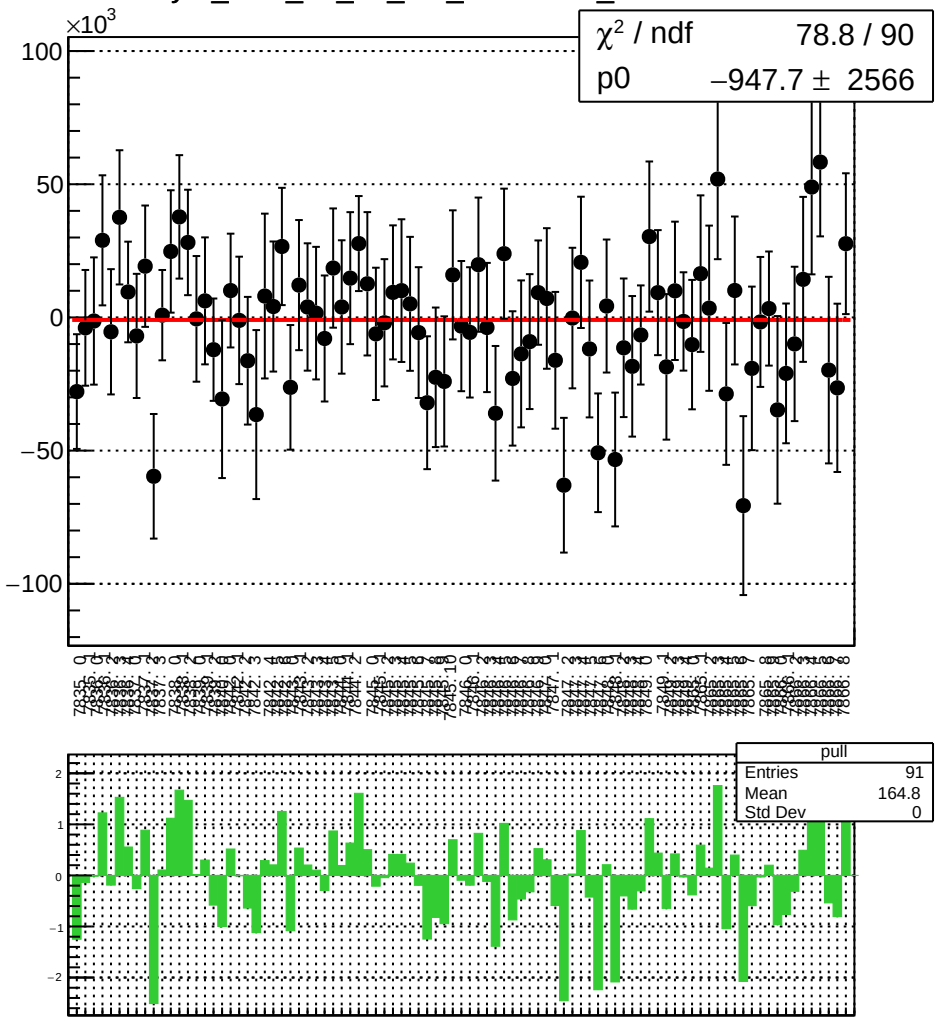

pull1D
Entries 91
Mean −0.01857
Std Dev 0.9304

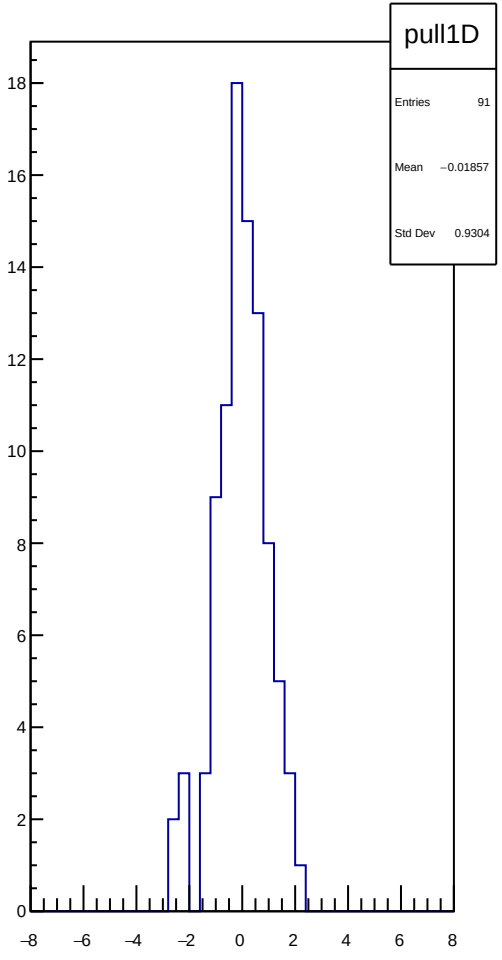

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.626e+04 / 90
p0 2392 ± 1.814
3400
3200
3000
2800
2600
2400
2200
2000

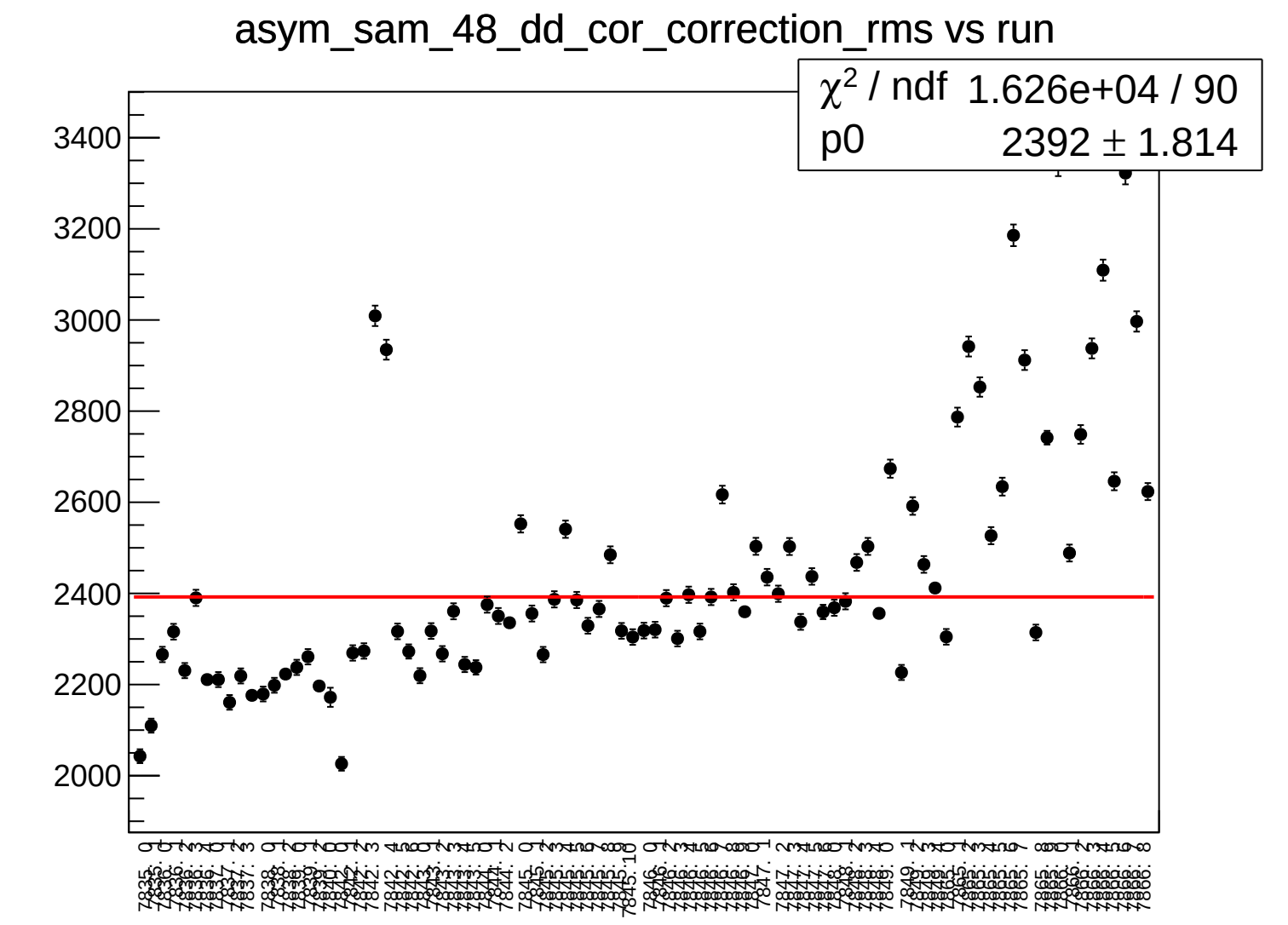

cor_asym_sam_48_dd_mean vs run
χ^2 / ndf 81.79 / 90
p0 362.1 ± 205.2
pull
Entries 91
Mean 139.6
Std Dev 0

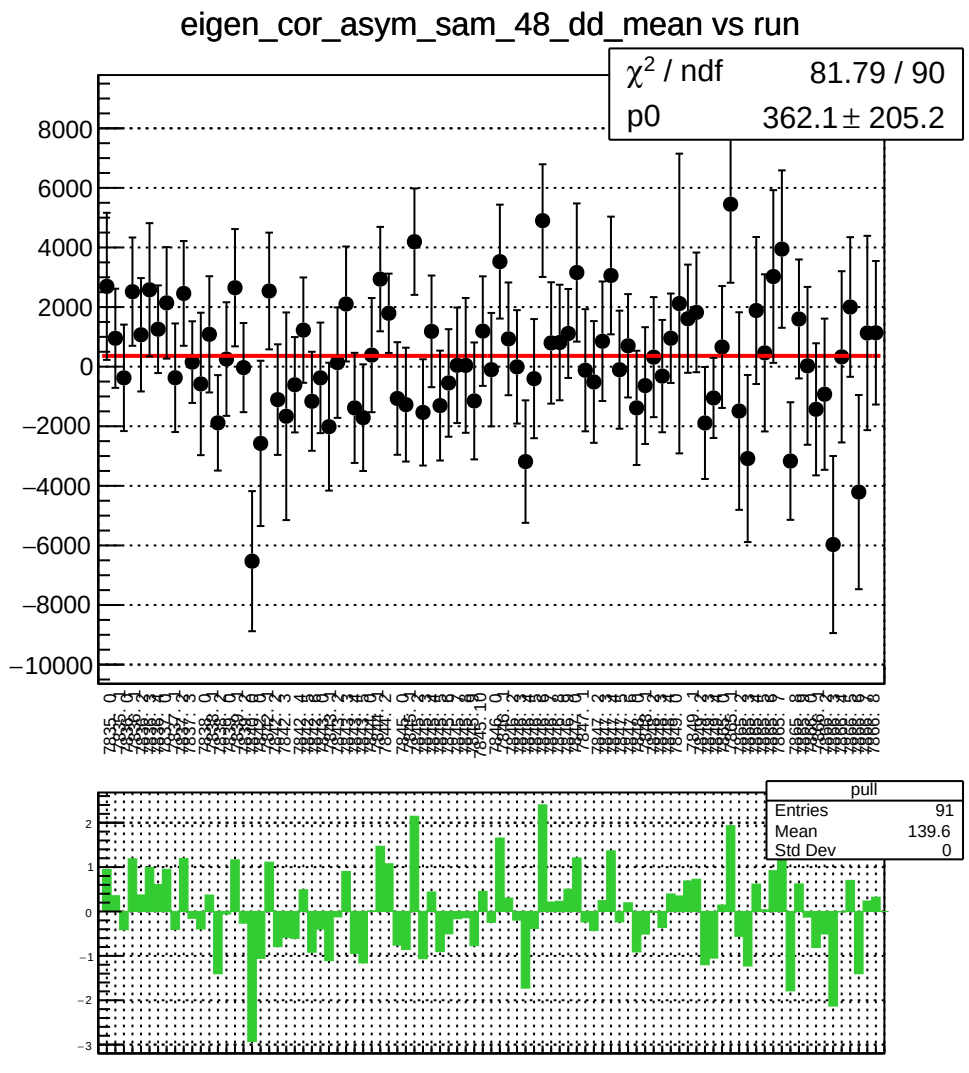

pull1D
Entries 91
Mean −0.01451
Std Dev 0.9479

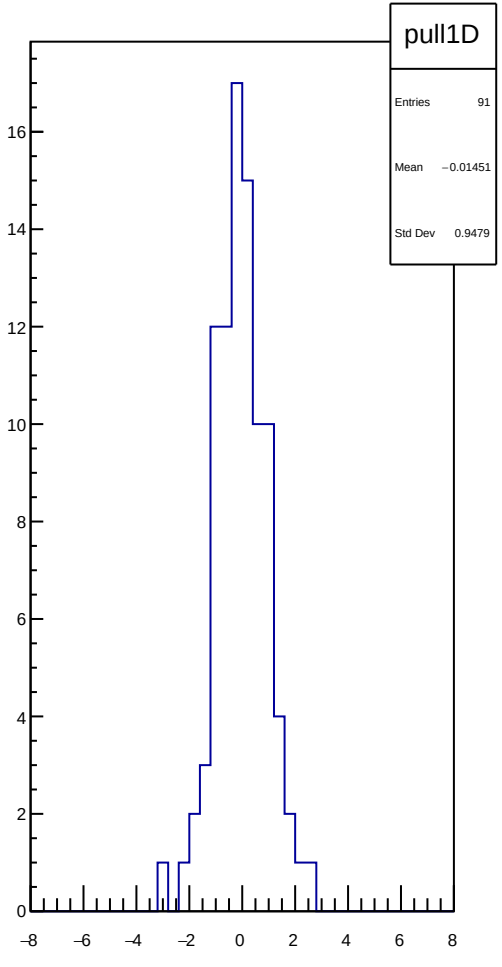

cor_asym_sam_48_dd_rms vs run
χ² / ndf 4.528e+04 / 90
p0 189.8 ± 0.1451
500
450
400
350
300
250
200
150

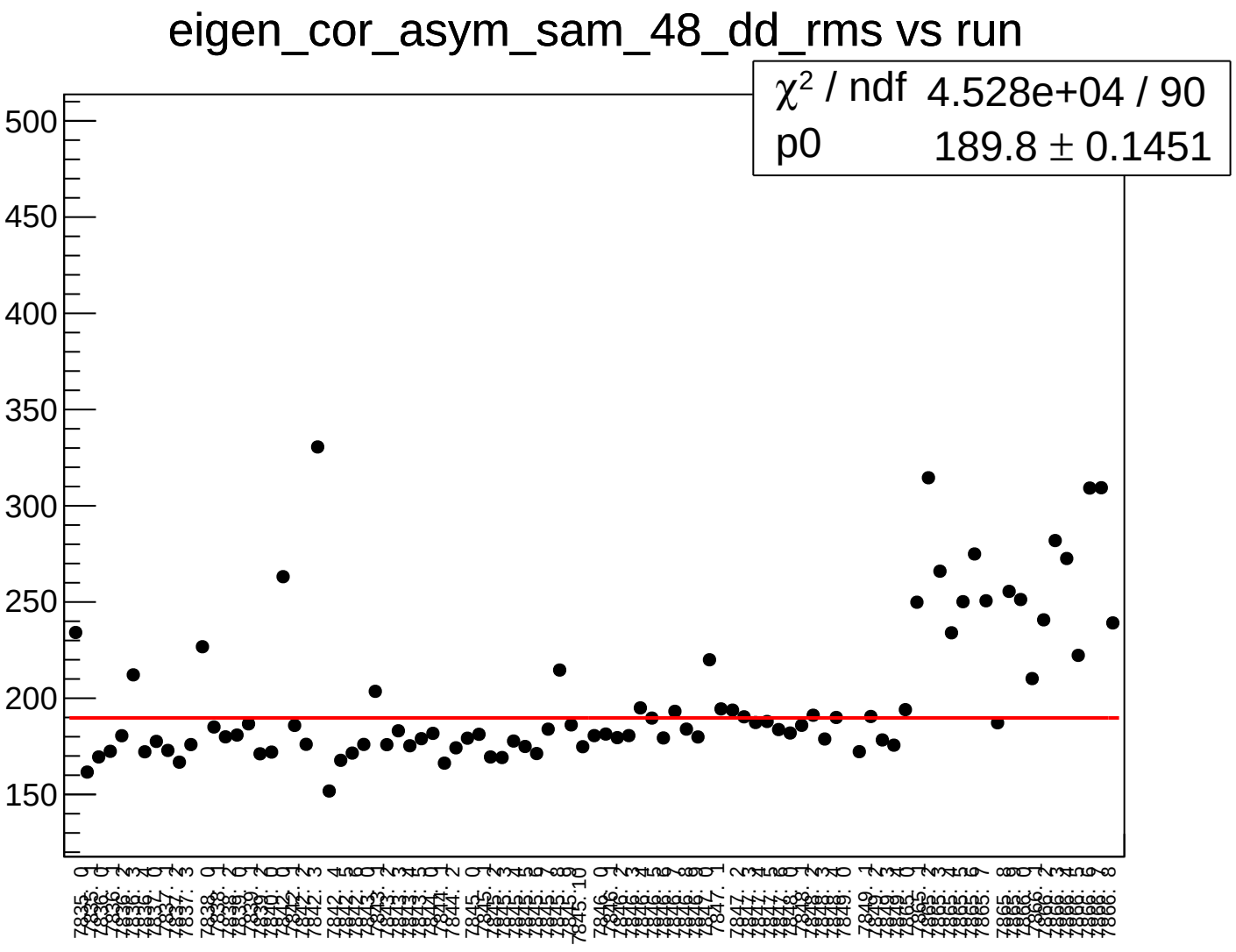

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.8 / 90
p0 −947.7 ± 2566
pull
Entries 91
Mean 164.8
Std Dev 0

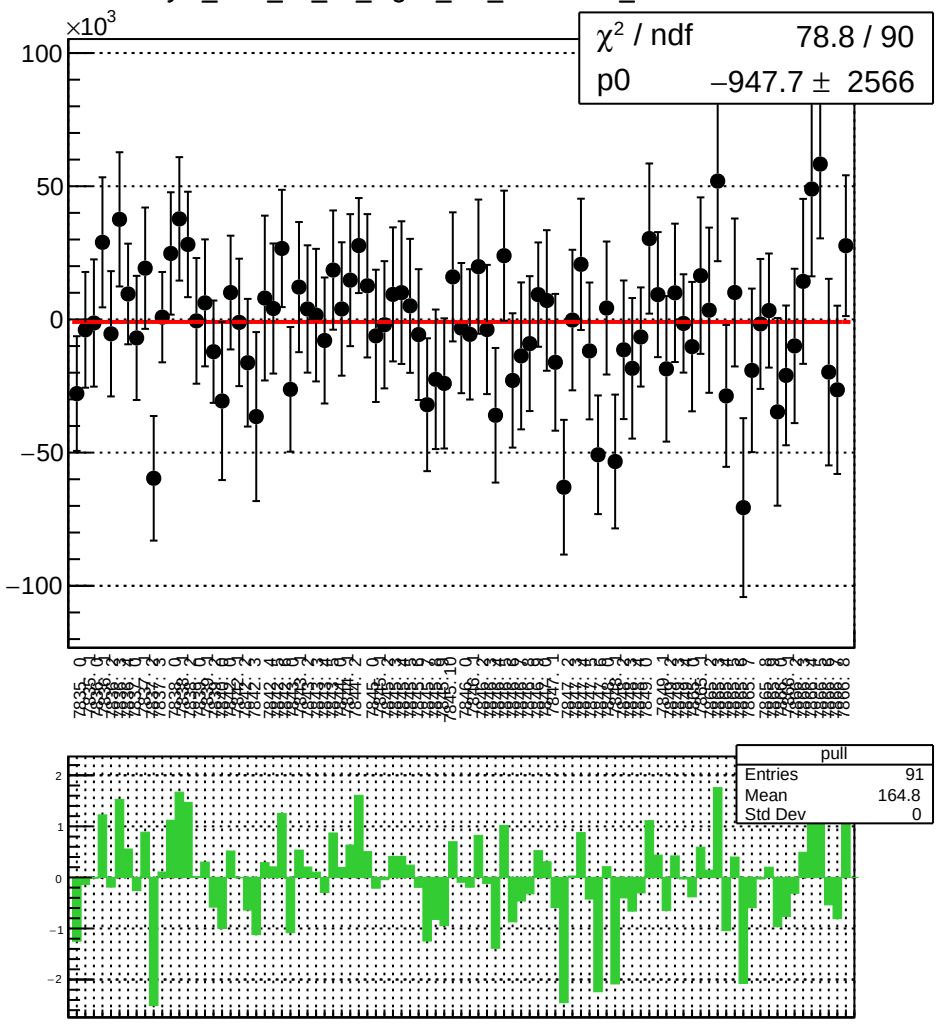

pull1D
Entries 91
Mean −0.01857
Std Dev 0.9304

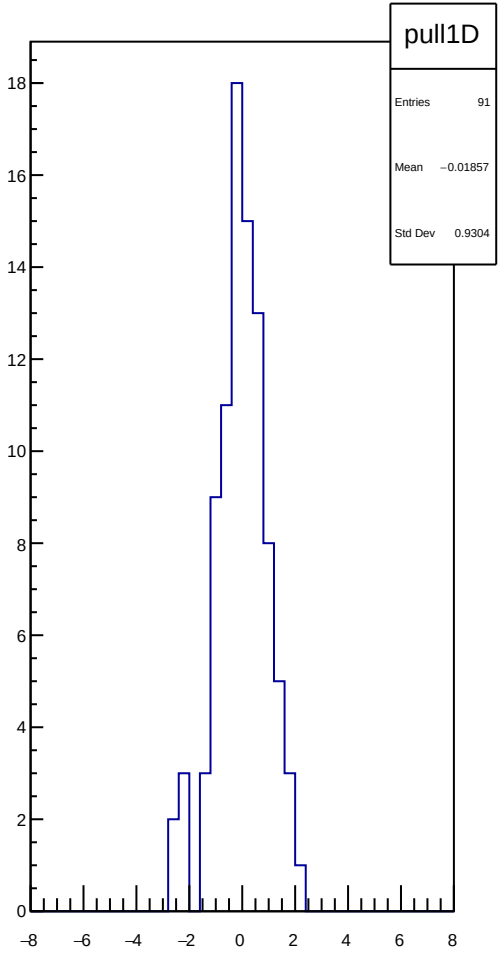

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.626e+04 / 90
p0 2392 ± 1.814
3400
3200
3000
2800
2600
2400
2200
2000

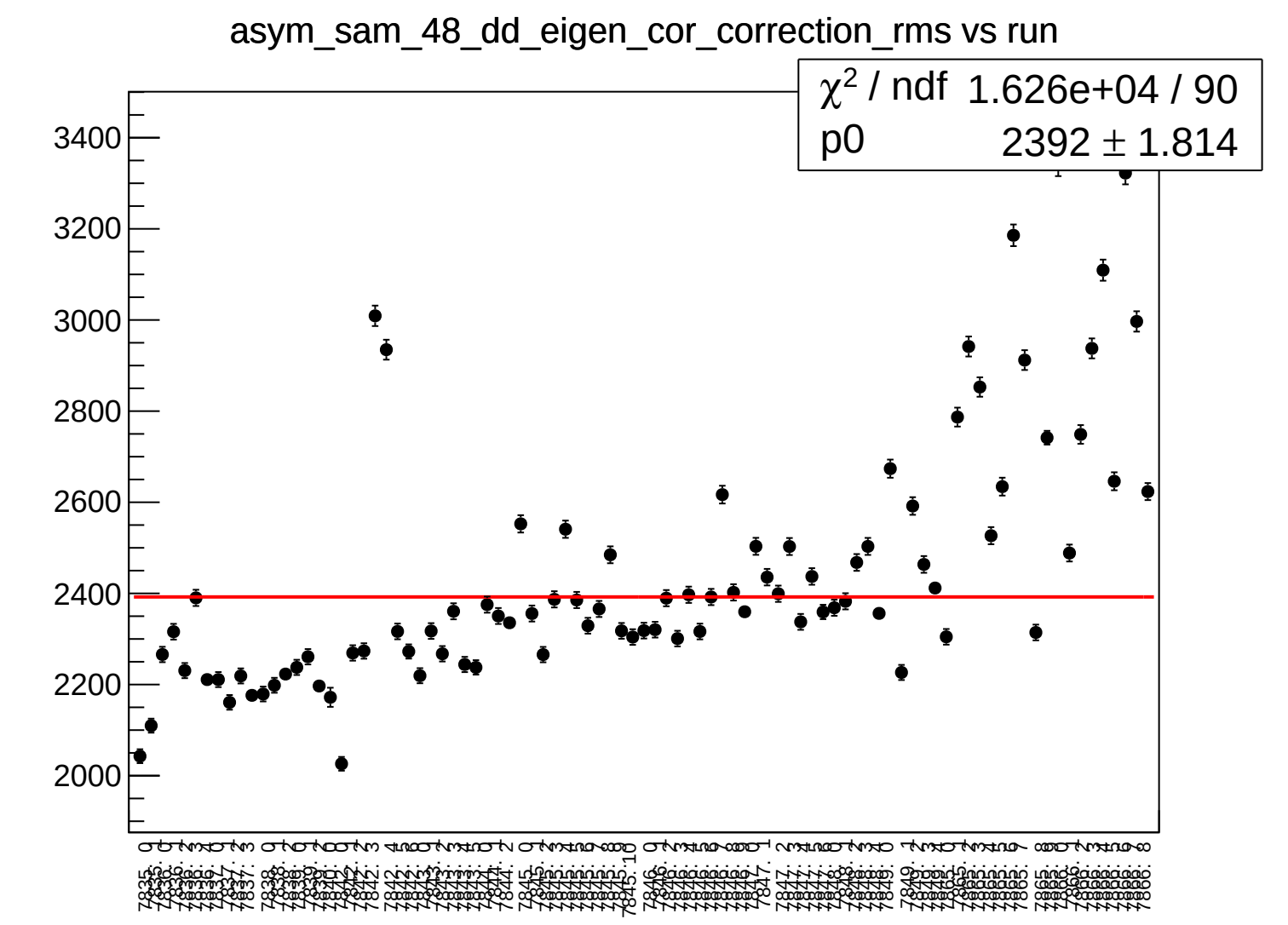

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.79 / 90
p0 362.1 ± 205.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 91
Mean 139.6
Std Dev 0
2
1
0
−1
−2
−3

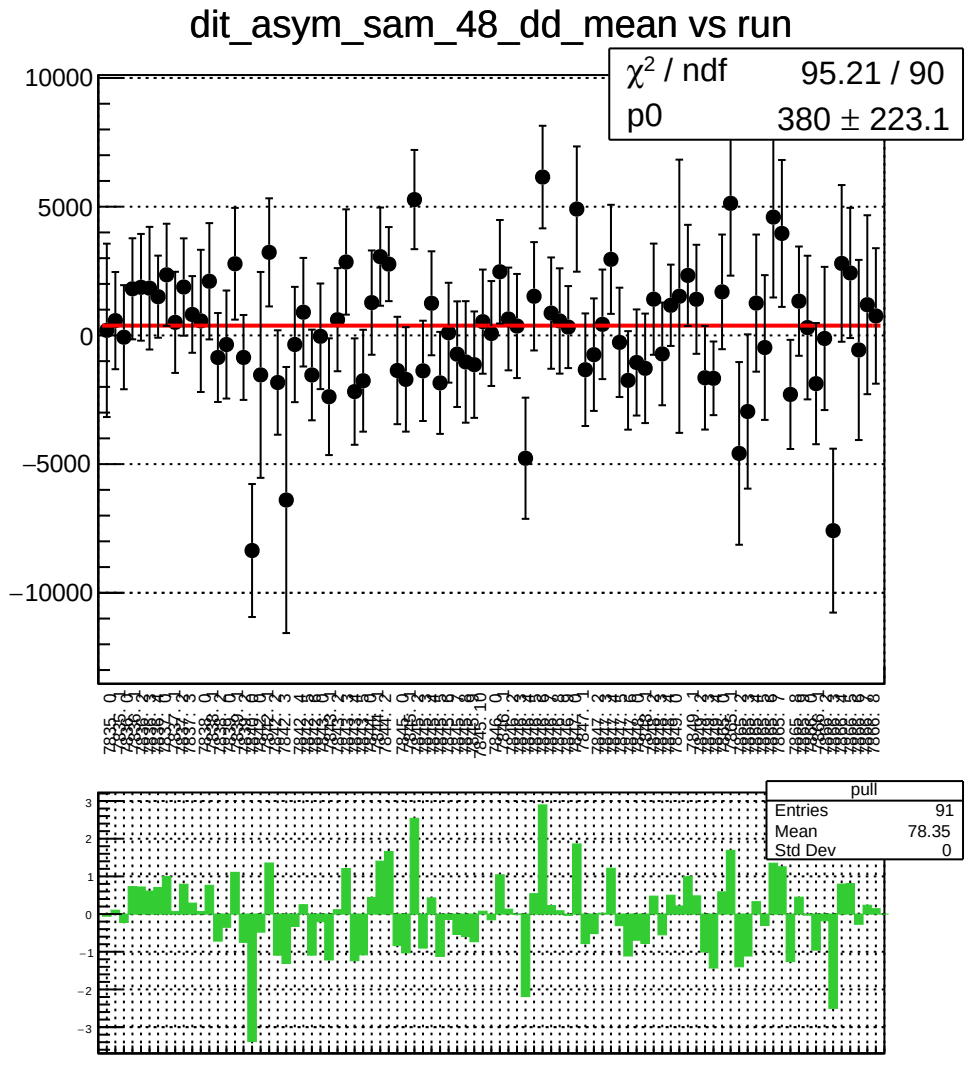

pull1D
Entries 91
Mean −0.01451
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

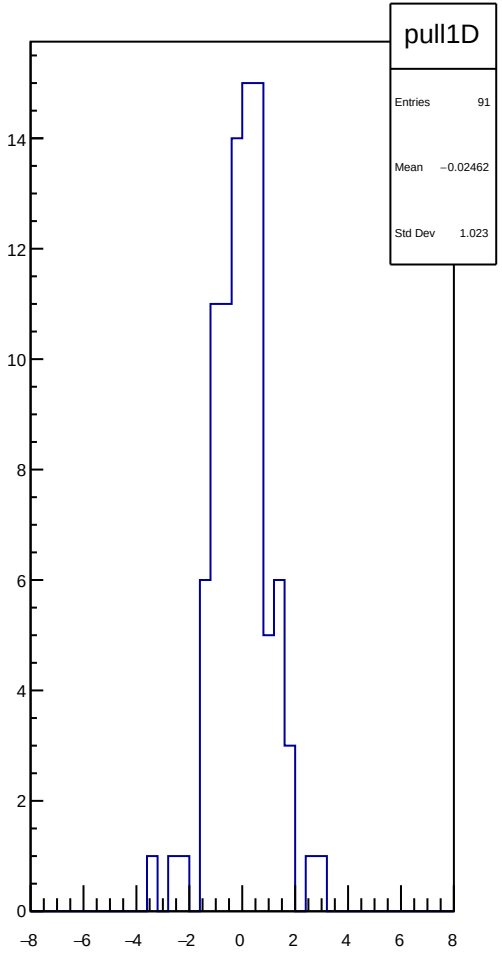

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 4.528e+04 / 90
p0 189.8 ± 0.1451
500
450
400
350
300
250
200
150

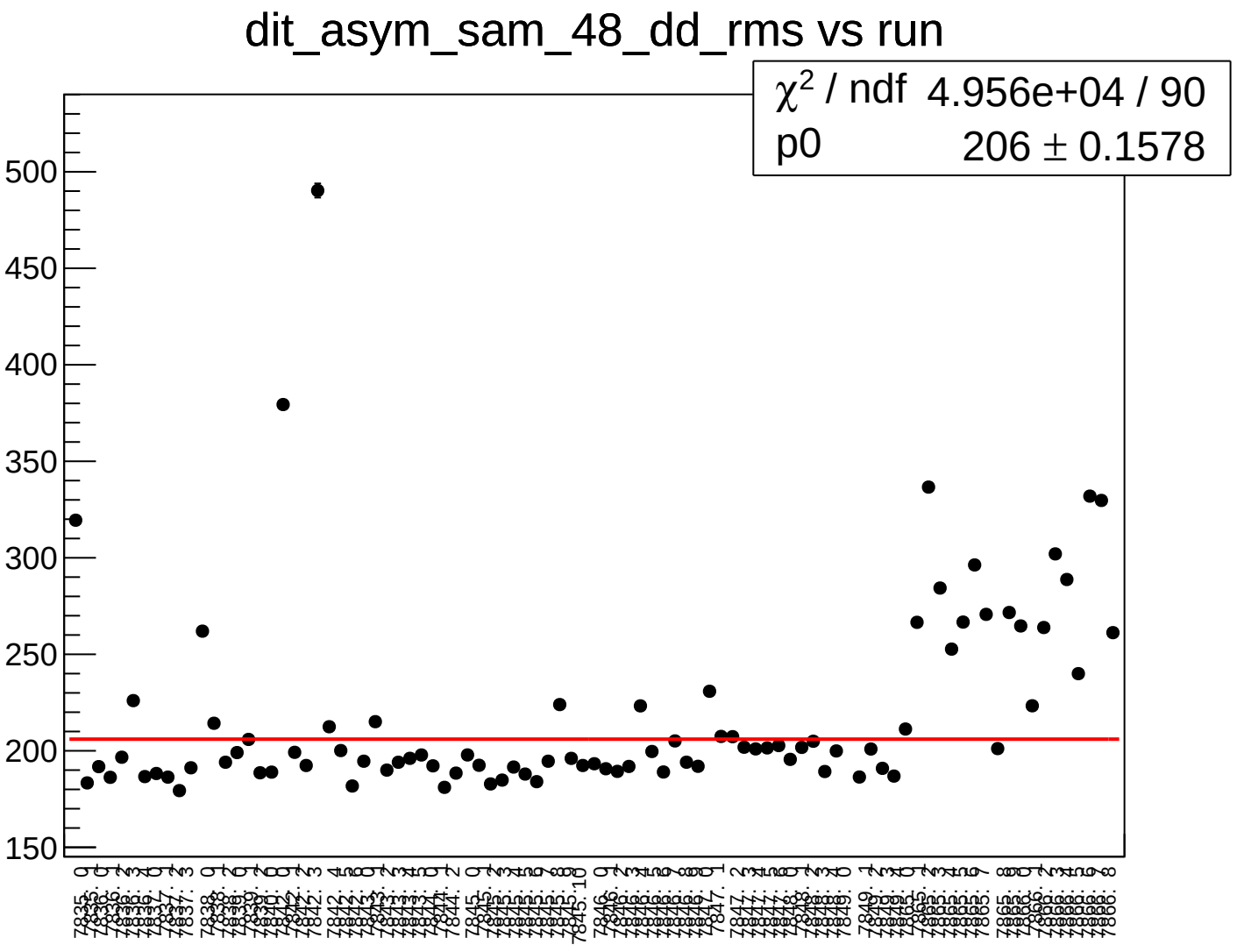

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.8 / 90
p0 −947.7 ± 2566
pull
Entries 91
Mean 164.8
Std Dev 0

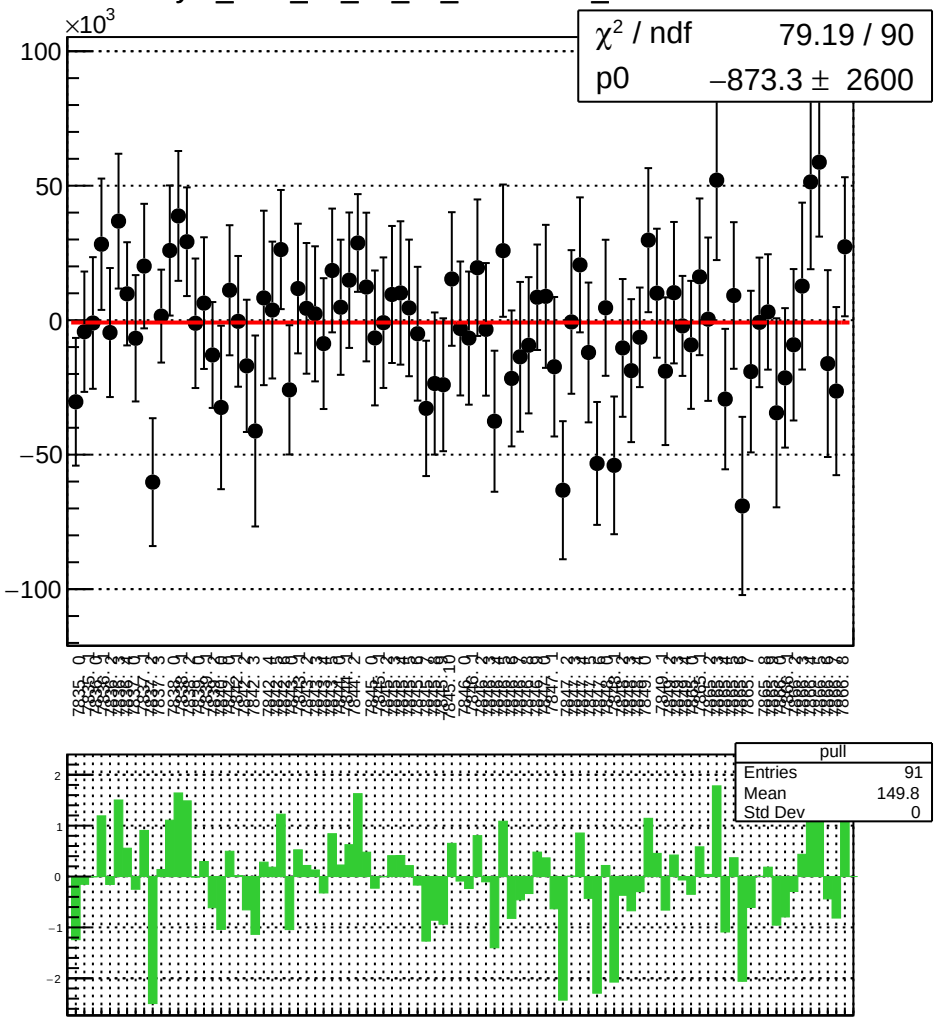

pull1D
Entries 91
Mean −0.01857
Std Dev 0.9304

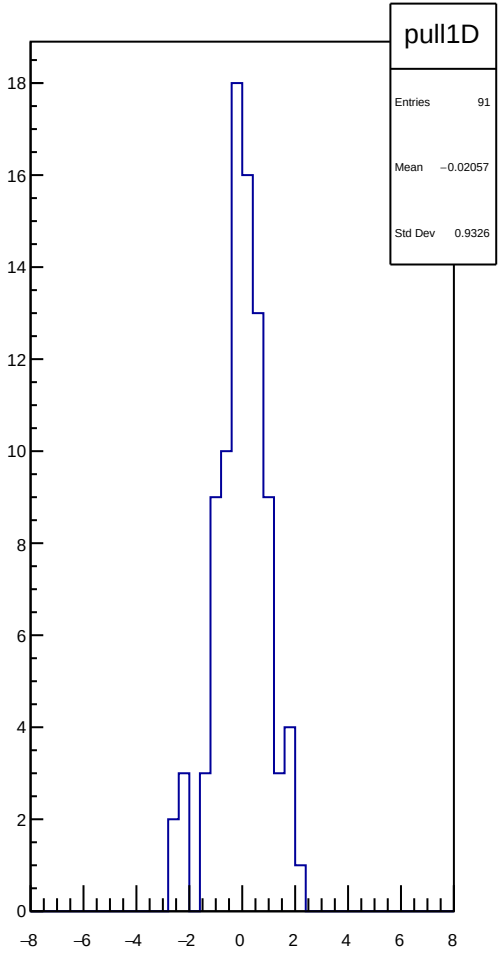

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.626e+04 / 90
p0 2392 ± 1.814
3400
3200
3000
2800
2600
2400
2200
2000

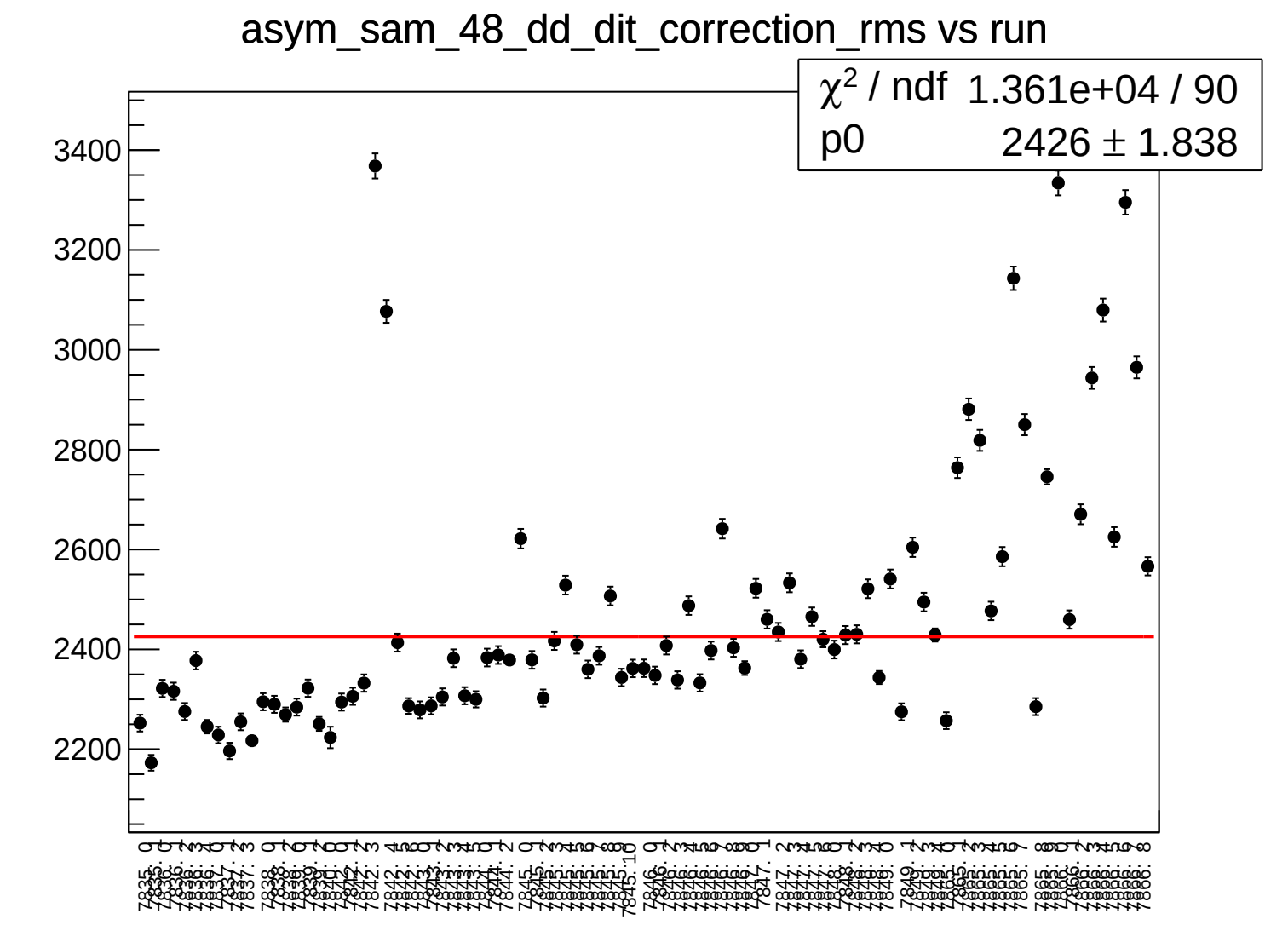

dit_asym_sam_48_dd_mean vs run
χ² / ndf 95.21 / 90
p0 380 ± 223.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 78.35
Std Dev 0
3
2
1
0
−1
−2
−3

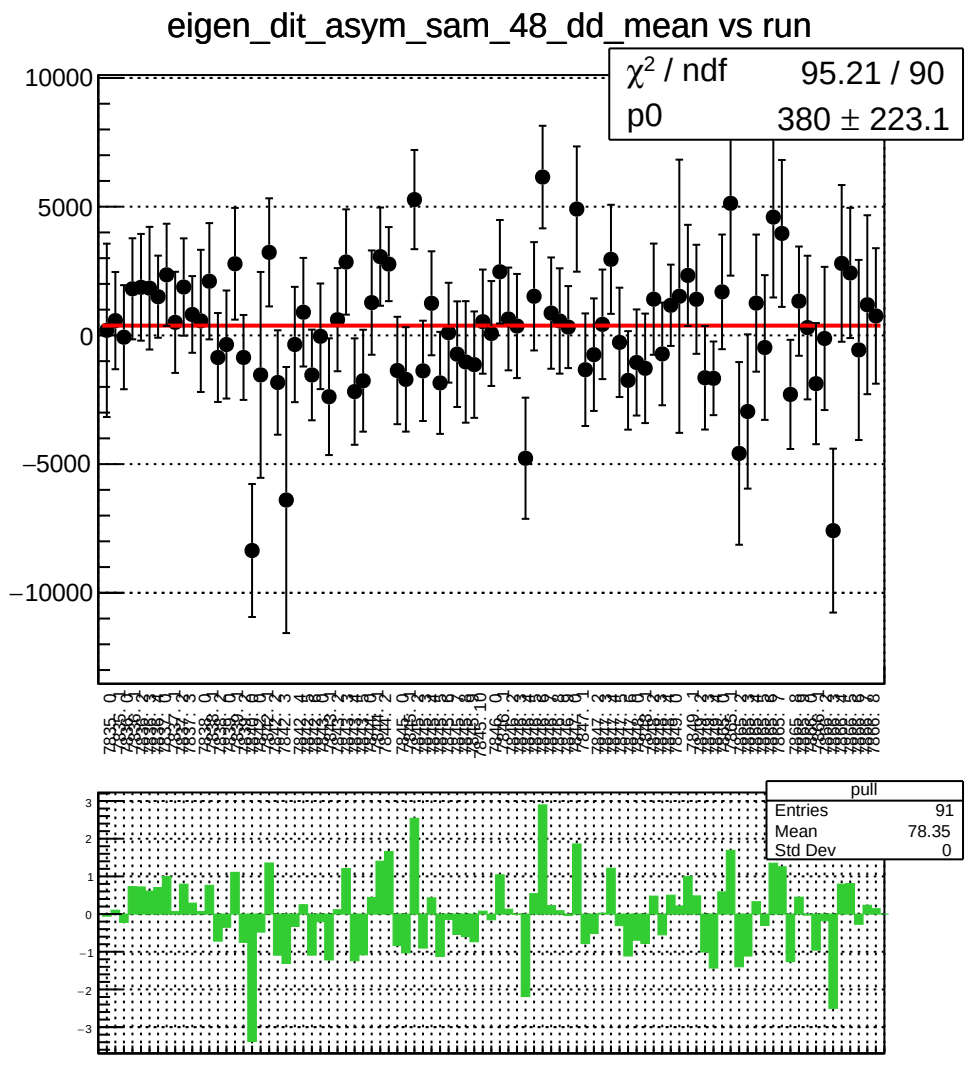

pull1D
Entries 91
Mean −0.02462
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

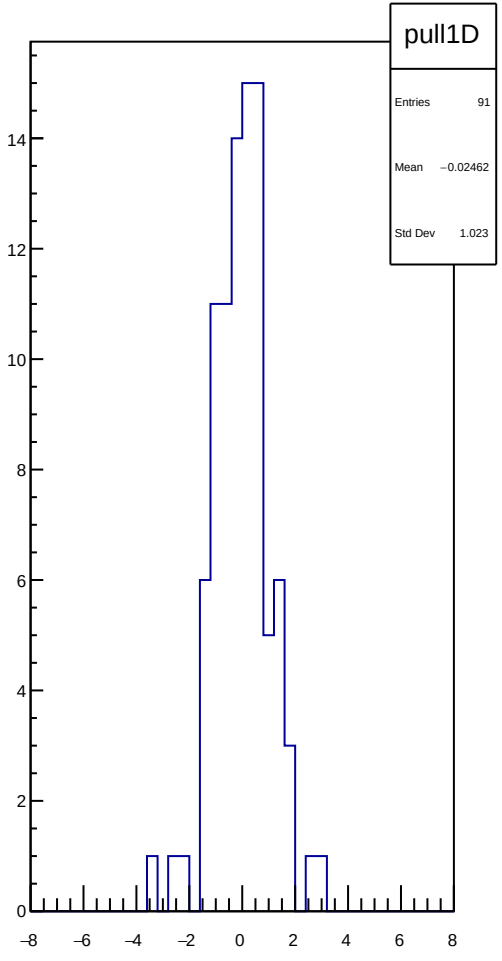

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.956e+04 / 90
p0 206 ± 0.1578
500
450
400
350
300
250
200
150

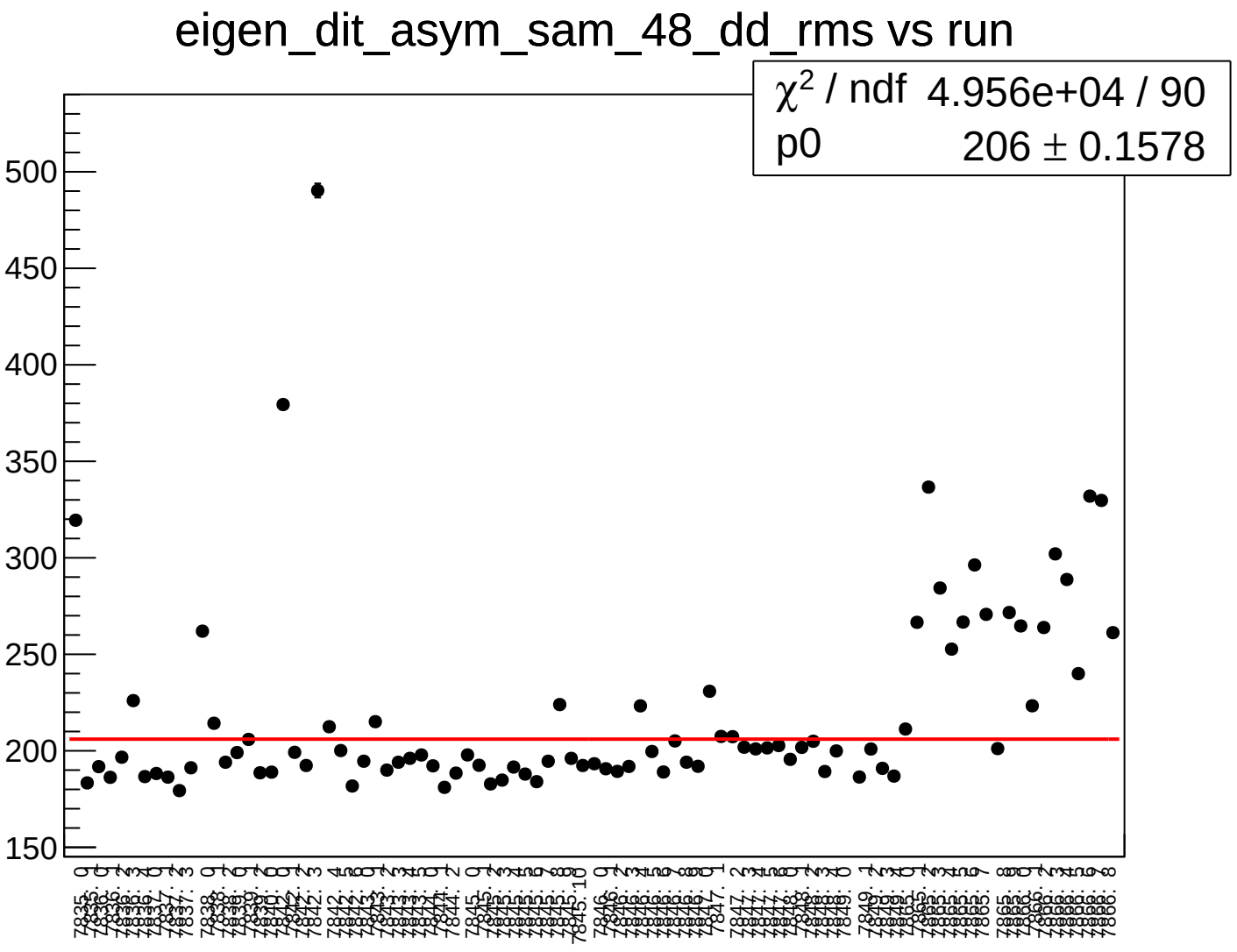

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.19 / 90
p0 −873.3 ± 2600
pull
Entries 91
Mean 149.8
Std Dev 0

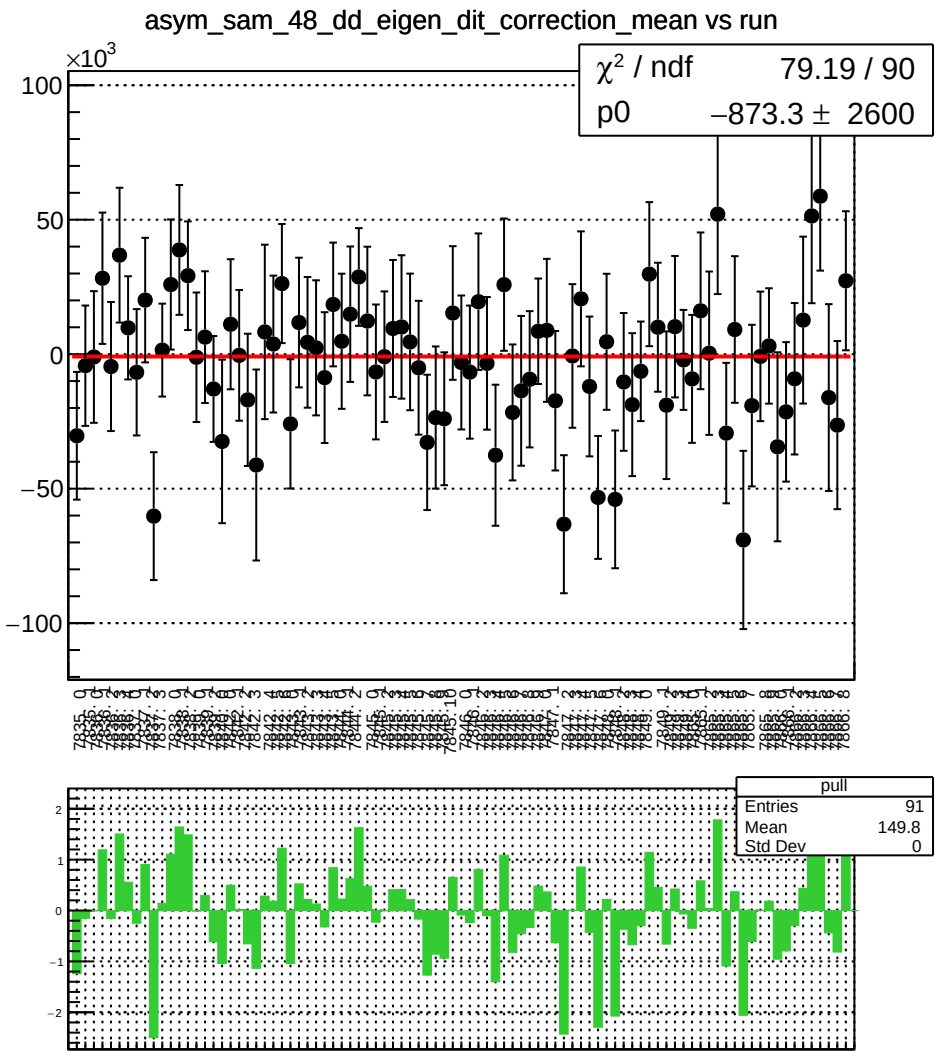

pull1D
Entries 91
Mean −0.02057
Std Dev 0.9326

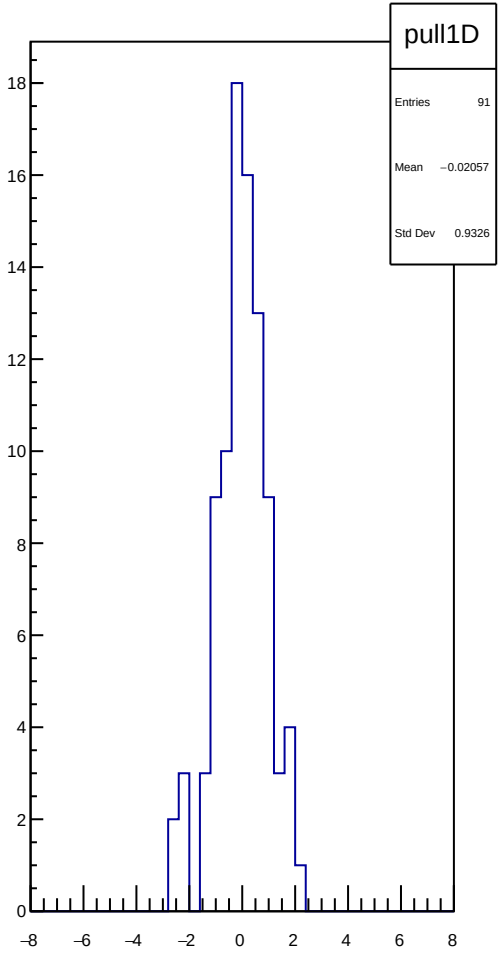

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 90
p0 2426 ± 1.838
3400
3200
3000
2800
2600
2400
2200

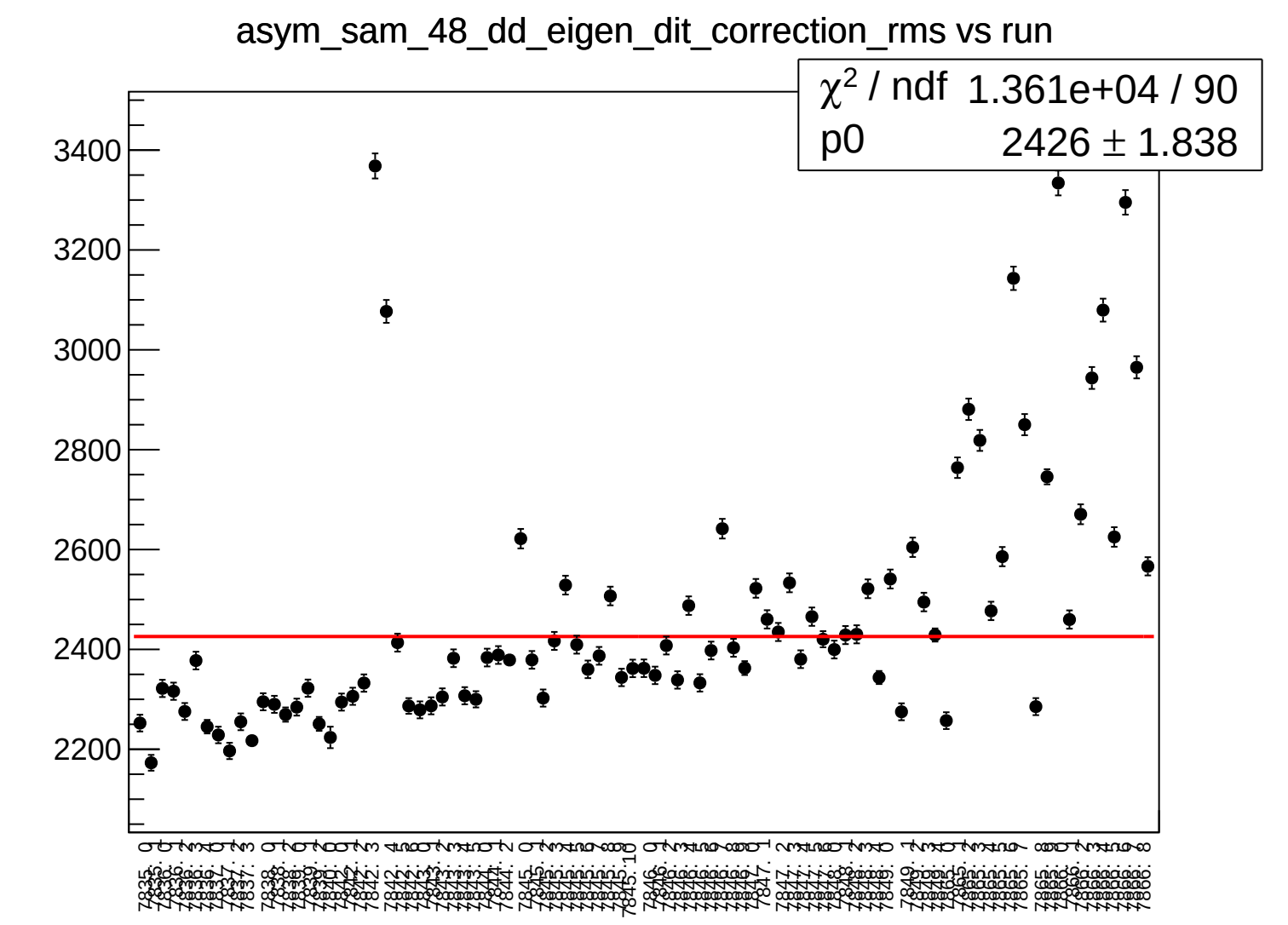

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 95.21 / 90
p0 380 ± 223.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 78.35
Std Dev 0
3
2
1
0
−1
−2
−3

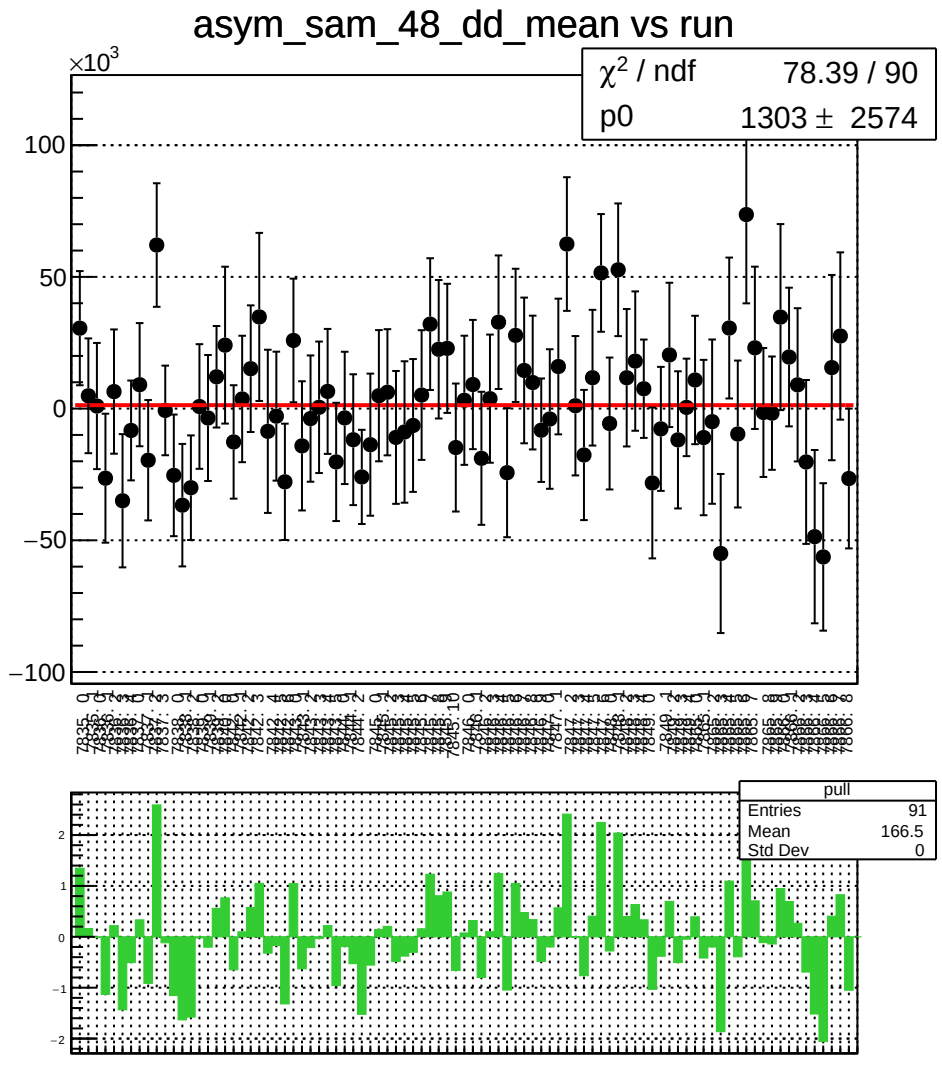

pull1D
Entries 91
Mean −0.02462
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

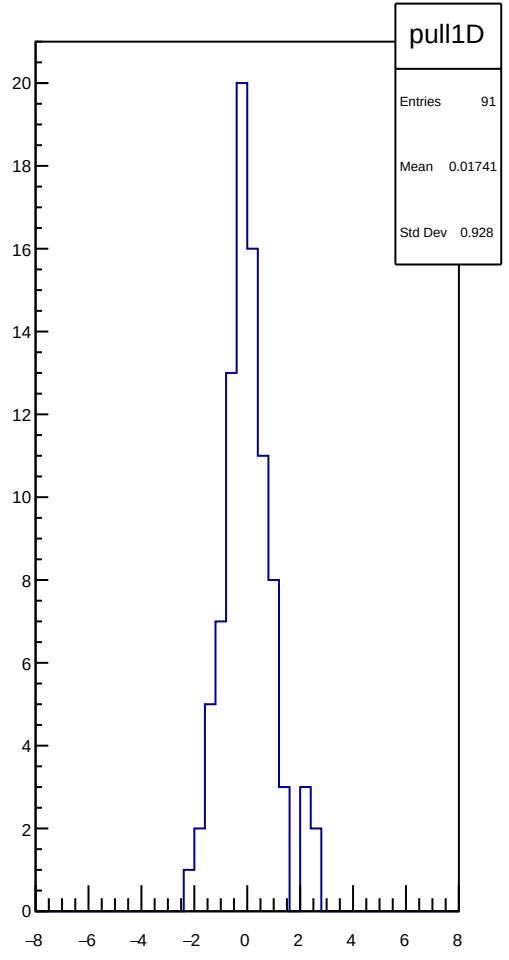

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.956e+04 / 90
p0 206 ± 0.1578
500
450
400
350
300
250
200
150

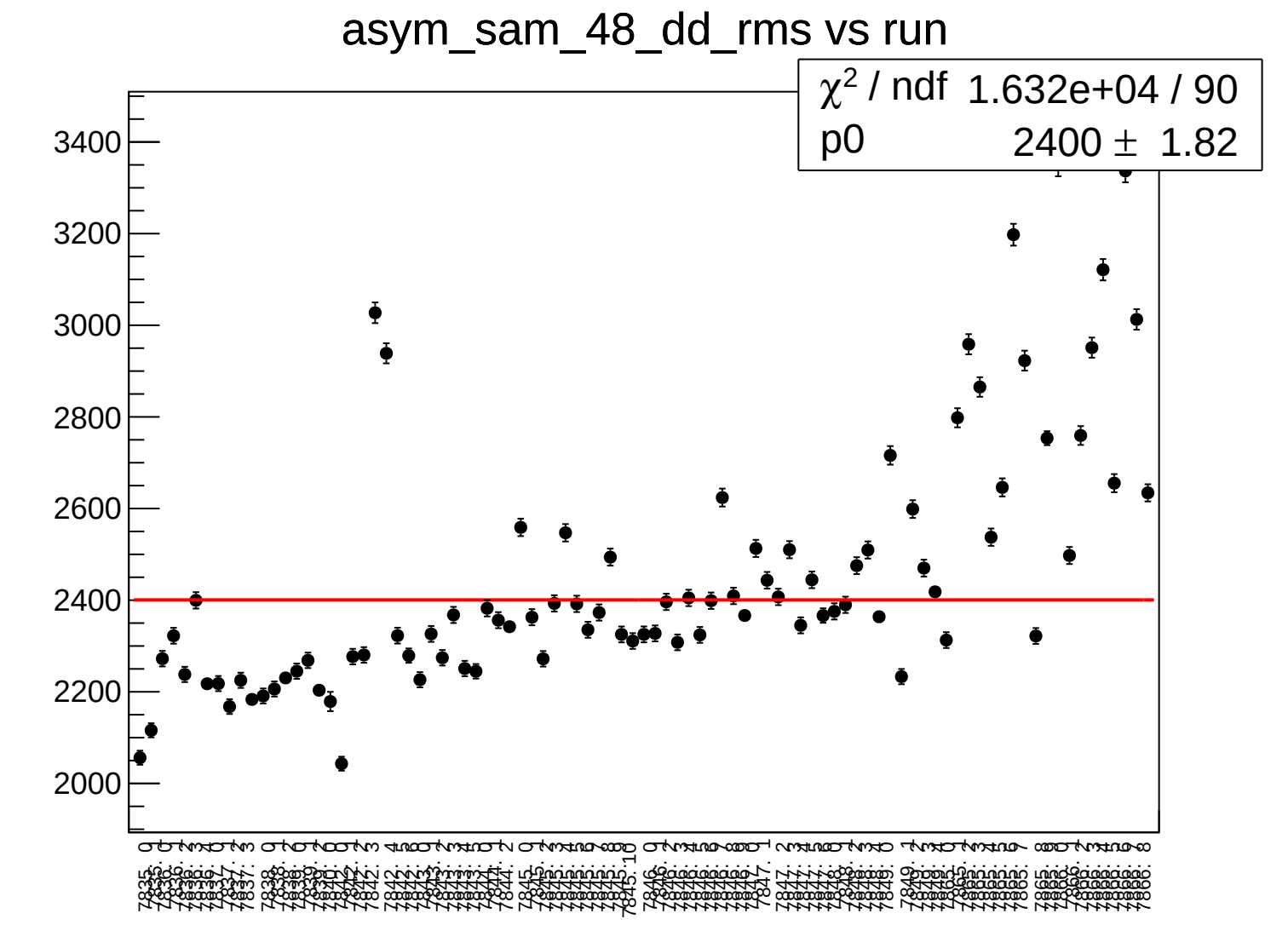

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.19 / 90
p0 −873.3 ± 2600
pull
Entries 91
Mean 149.8
Std Dev 0

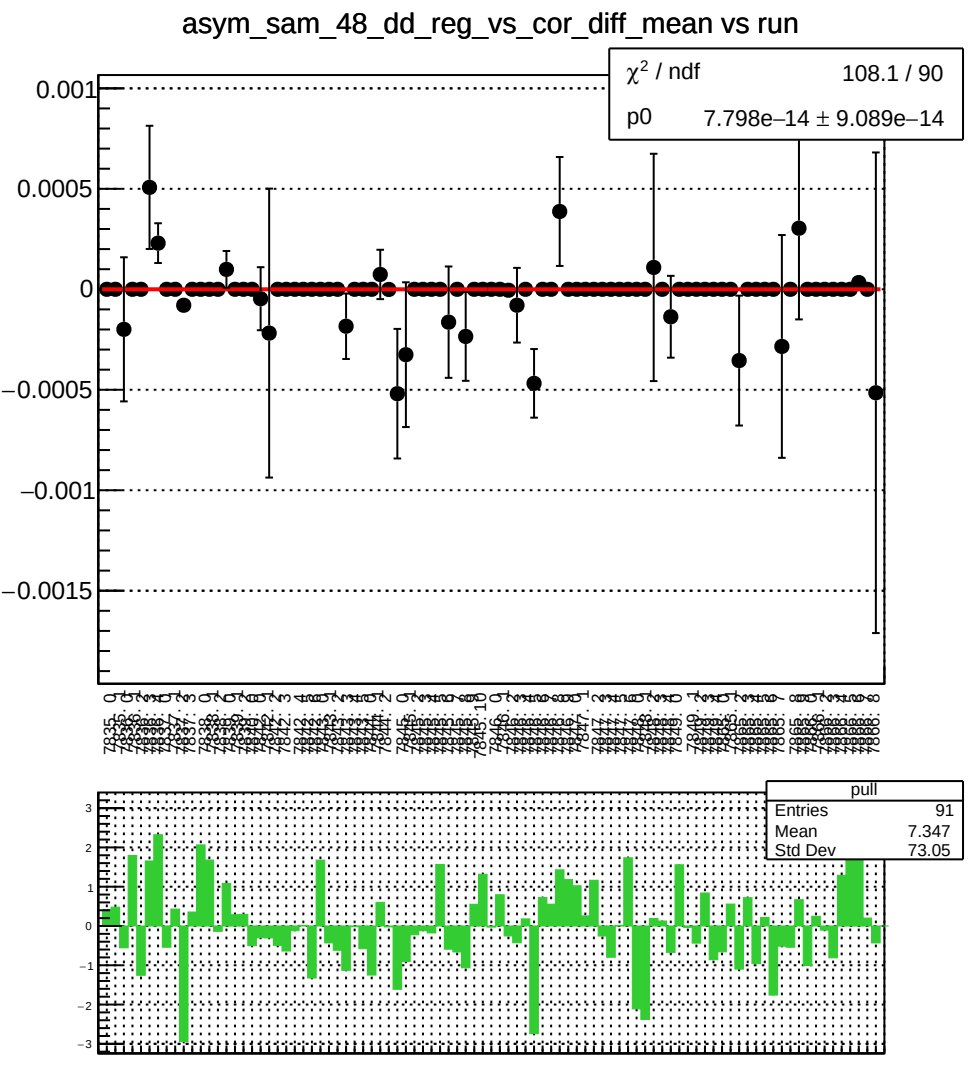

pull1D
Entries 91
Mean −0.02057
Std Dev 0.9326

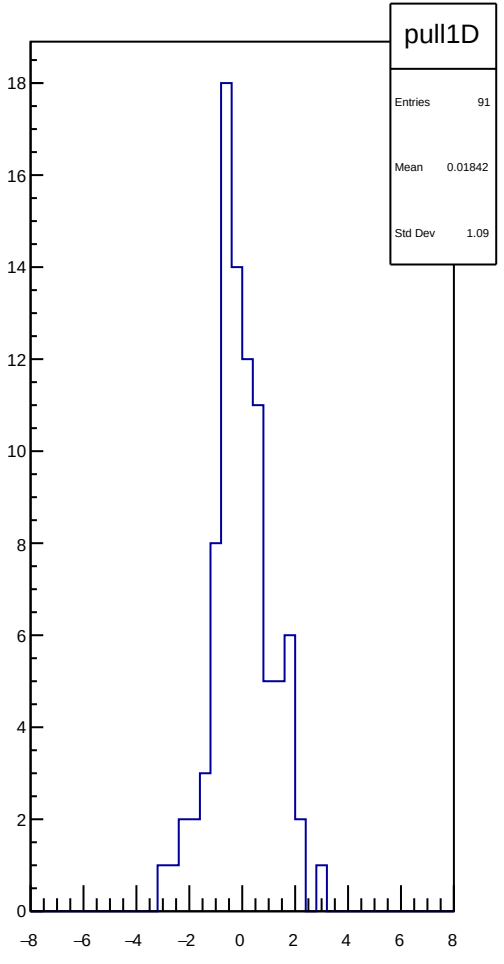

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 90
p0 2426 ± 1.838
3400
3200
3000
2800
2600
2400
2200

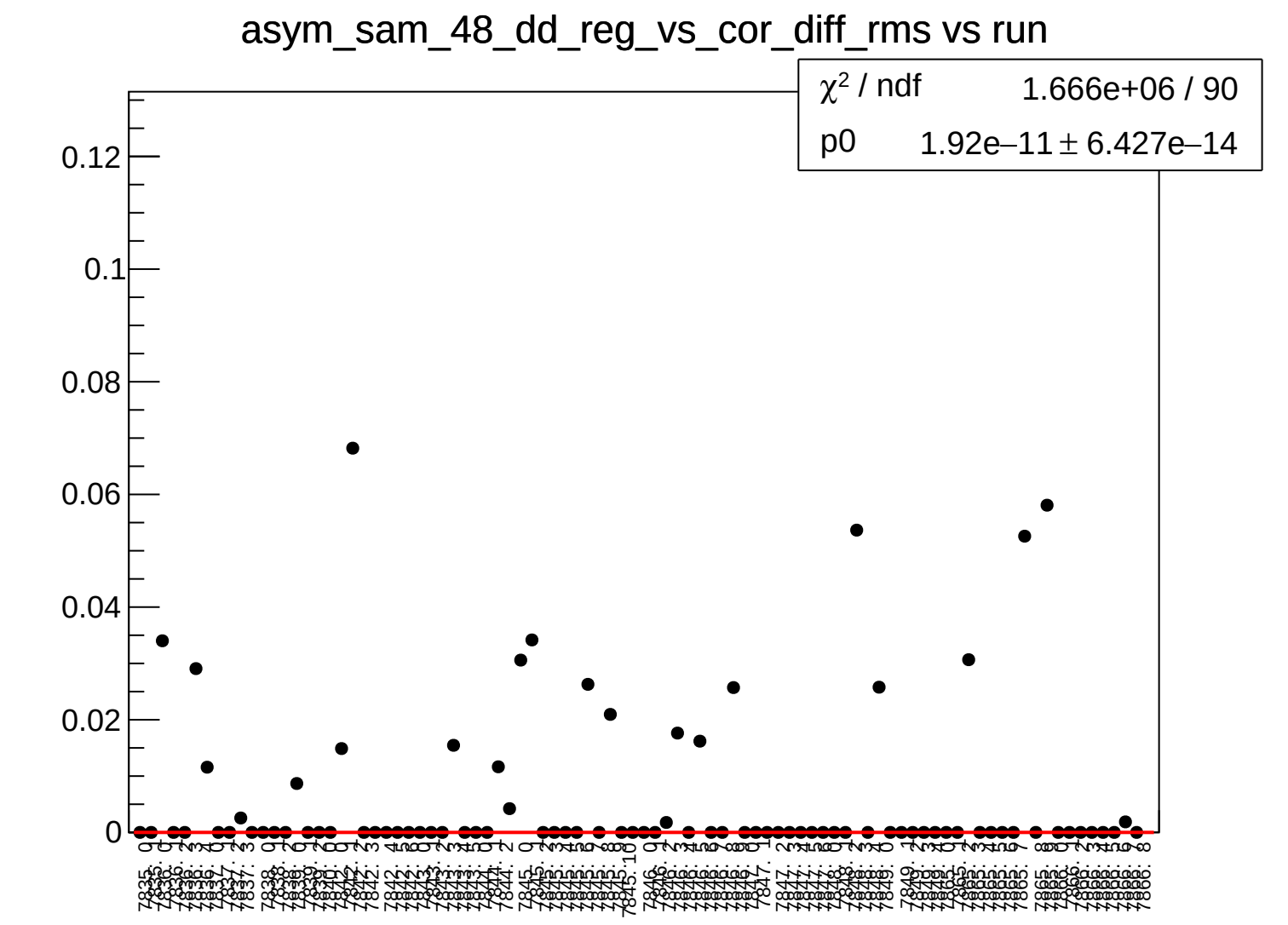

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 78.39 / 90
p0 1303 ± 2574
100
50
0
−50
−100
pull
Entries 91
Mean 166.5
Std Dev 0
2
1
0
−1
−2

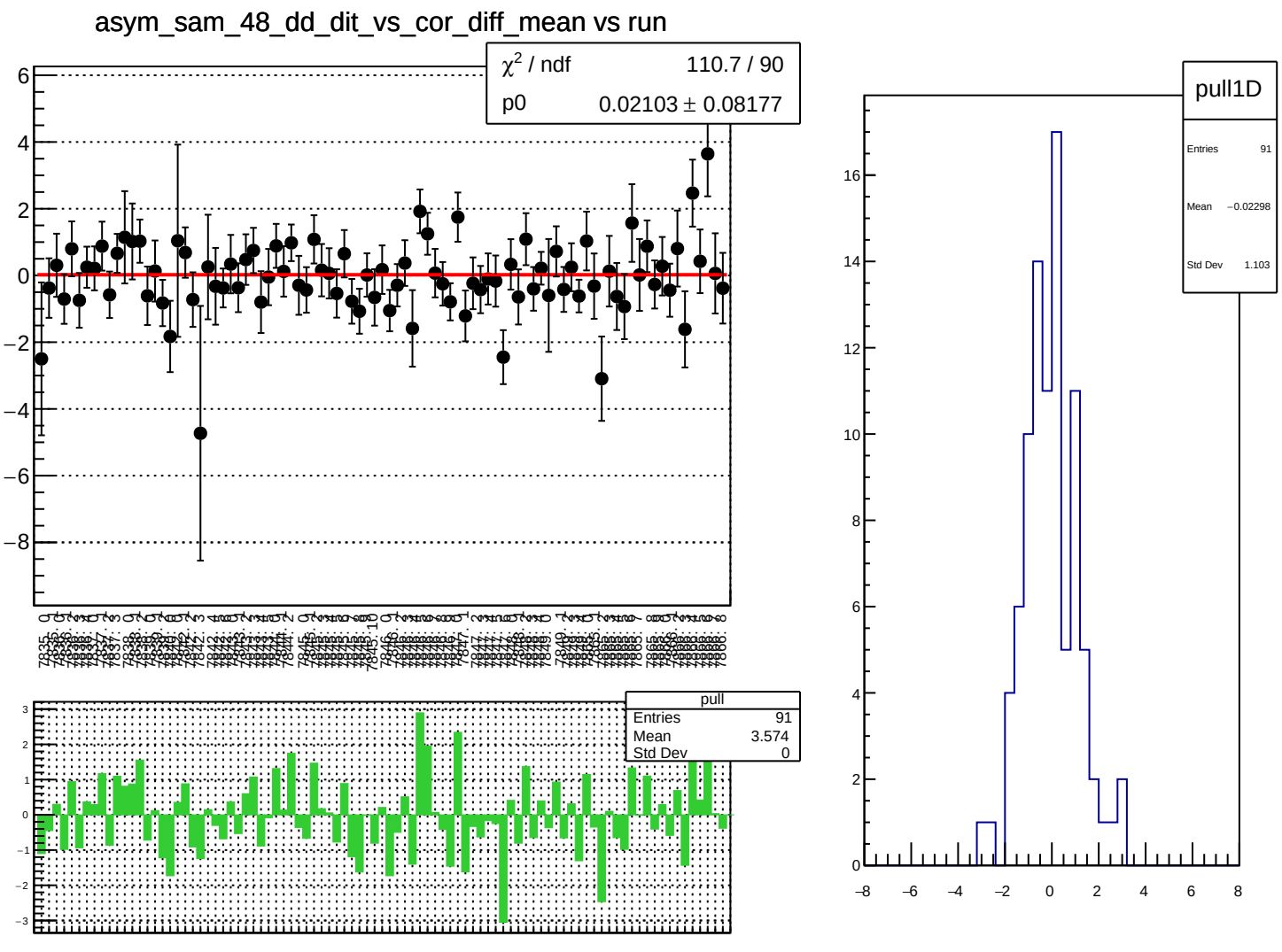

pull1D
Entries 91
Mean 0.01741
Std Dev 0.928
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

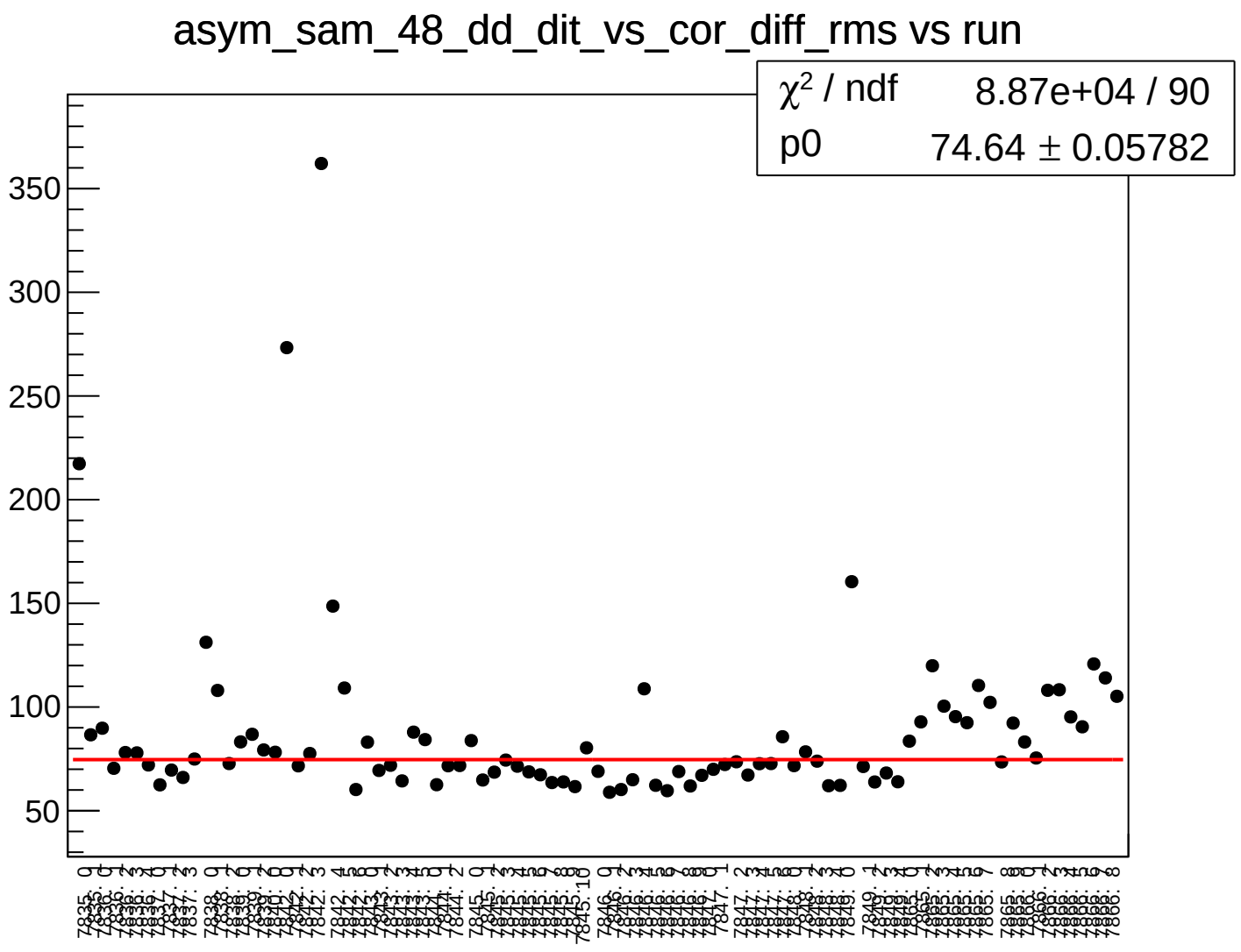

asym_sam_48_dd_rms vs run
χ² / ndf 1.632e+04 / 90
p0 2400 ± 1.82
3400
3200
3000
2800
2600
2400
2200
2000

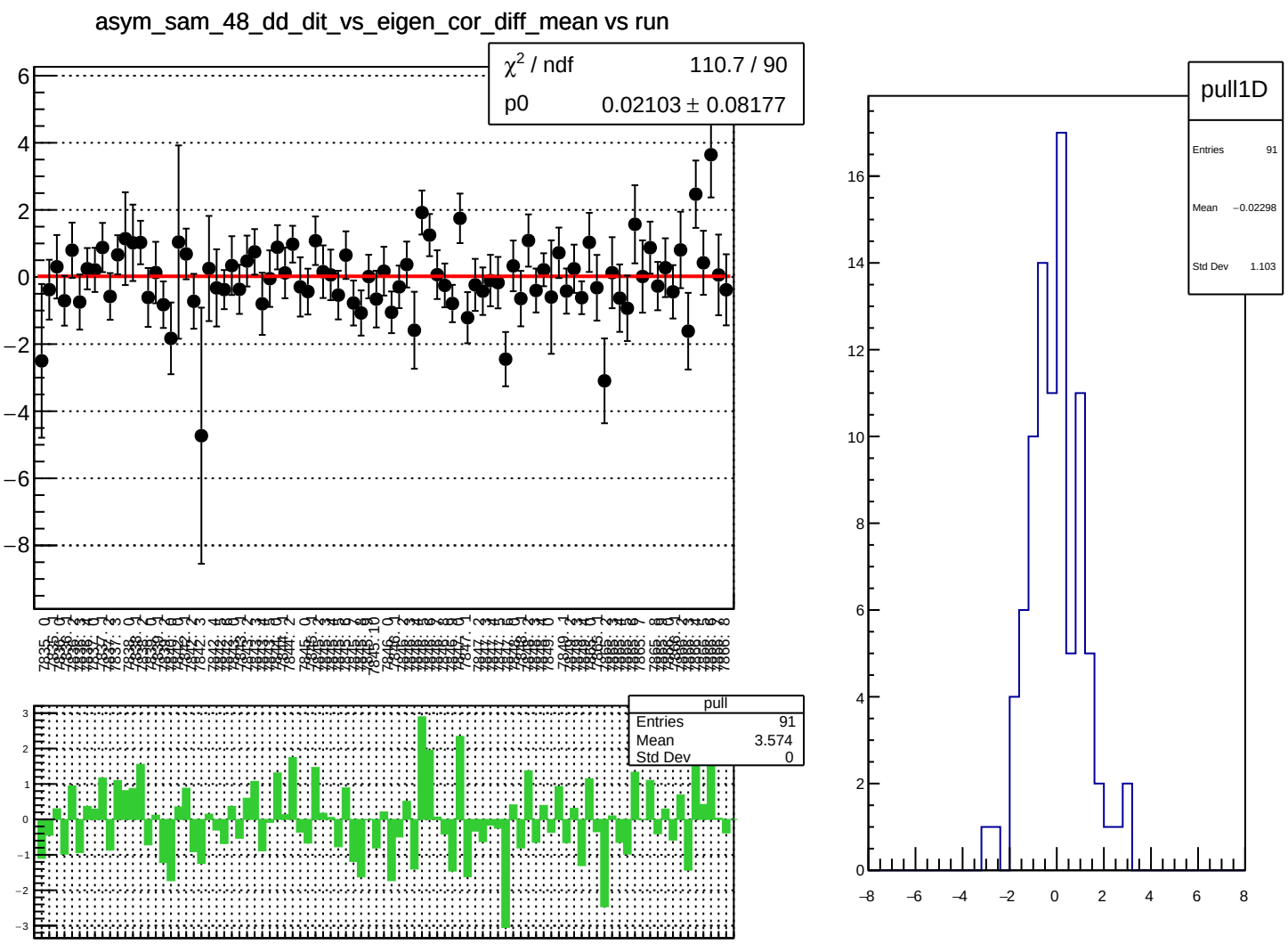

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 90
p0 7.798e−14 ± 9.089e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 7.347
Std Dev 73.05
3
2
1
0
−1
−2
−3

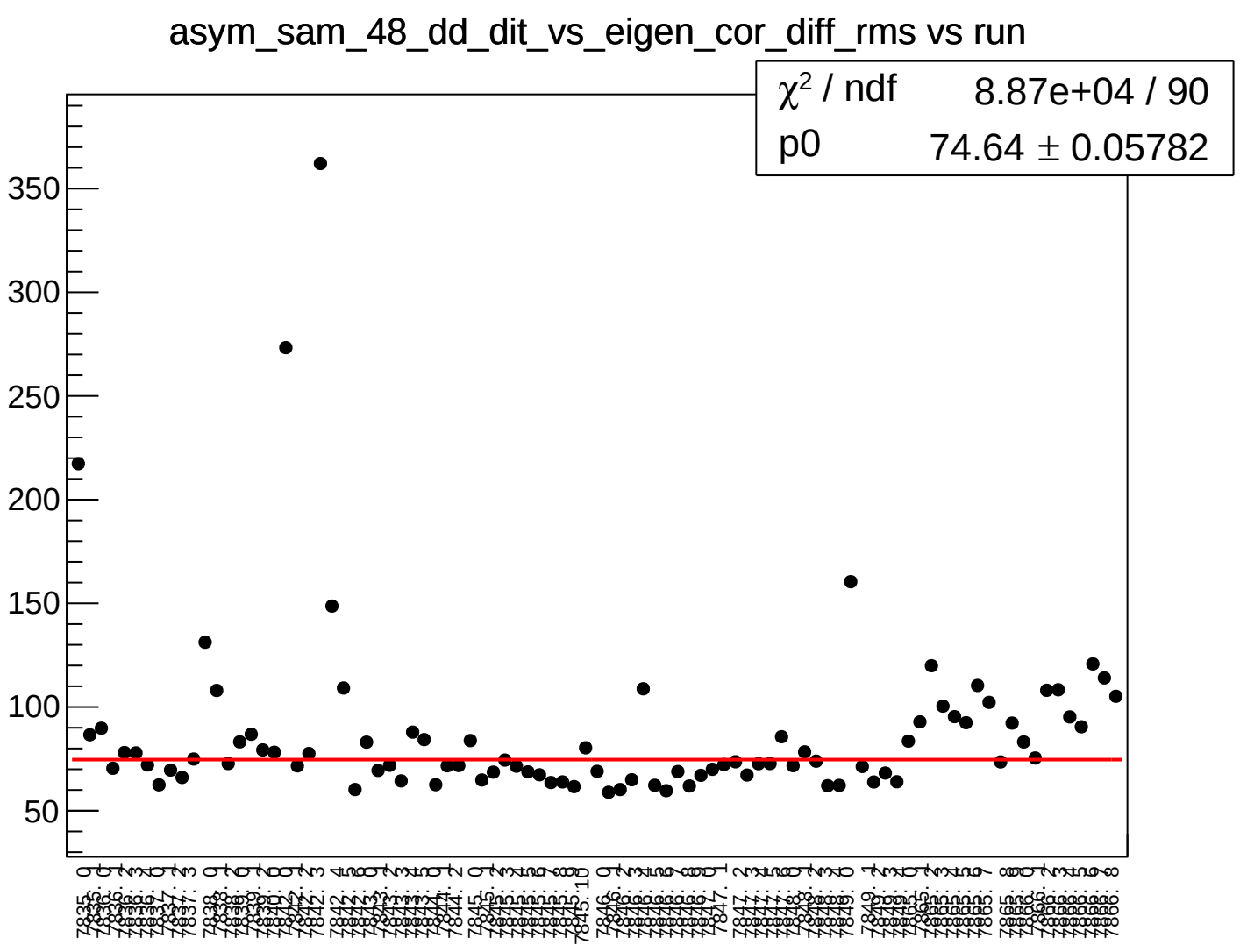

pull1D
Entries 91
Mean 0.01842
Std Dev 1.09
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

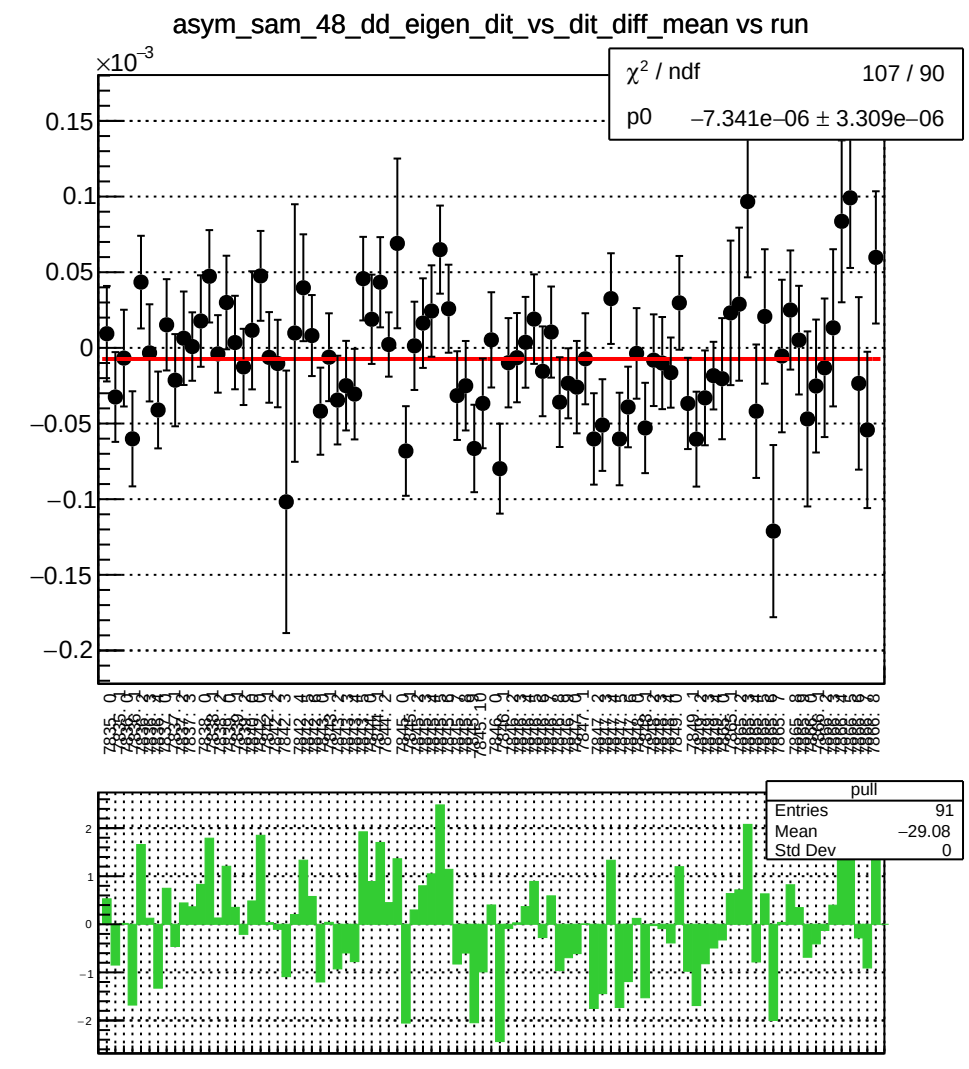

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.666e+06 / 90
p0 1.92e−11 ± 6.427e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

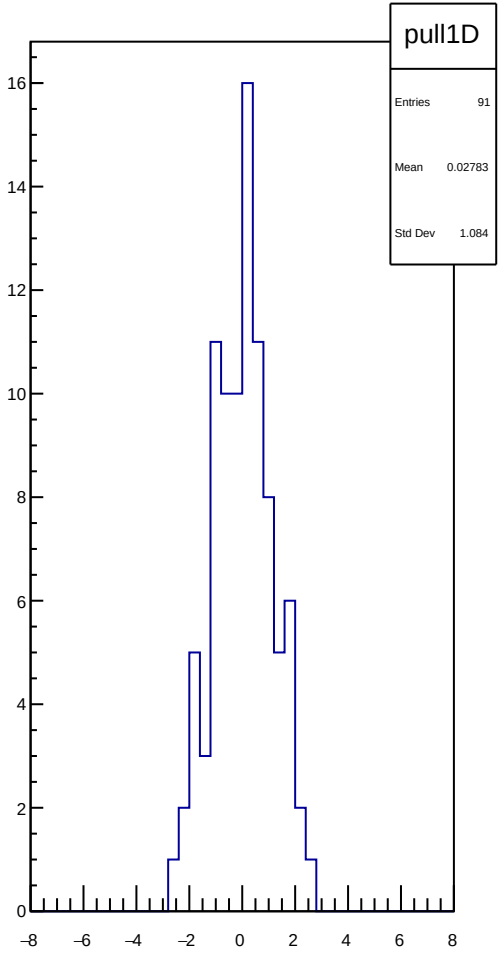

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02103 ± 0.08177
pull
Entries 91
Mean 3.574
Std Dev 0
pull1D
Entries 91
Mean −0.02298
Std Dev 1.103

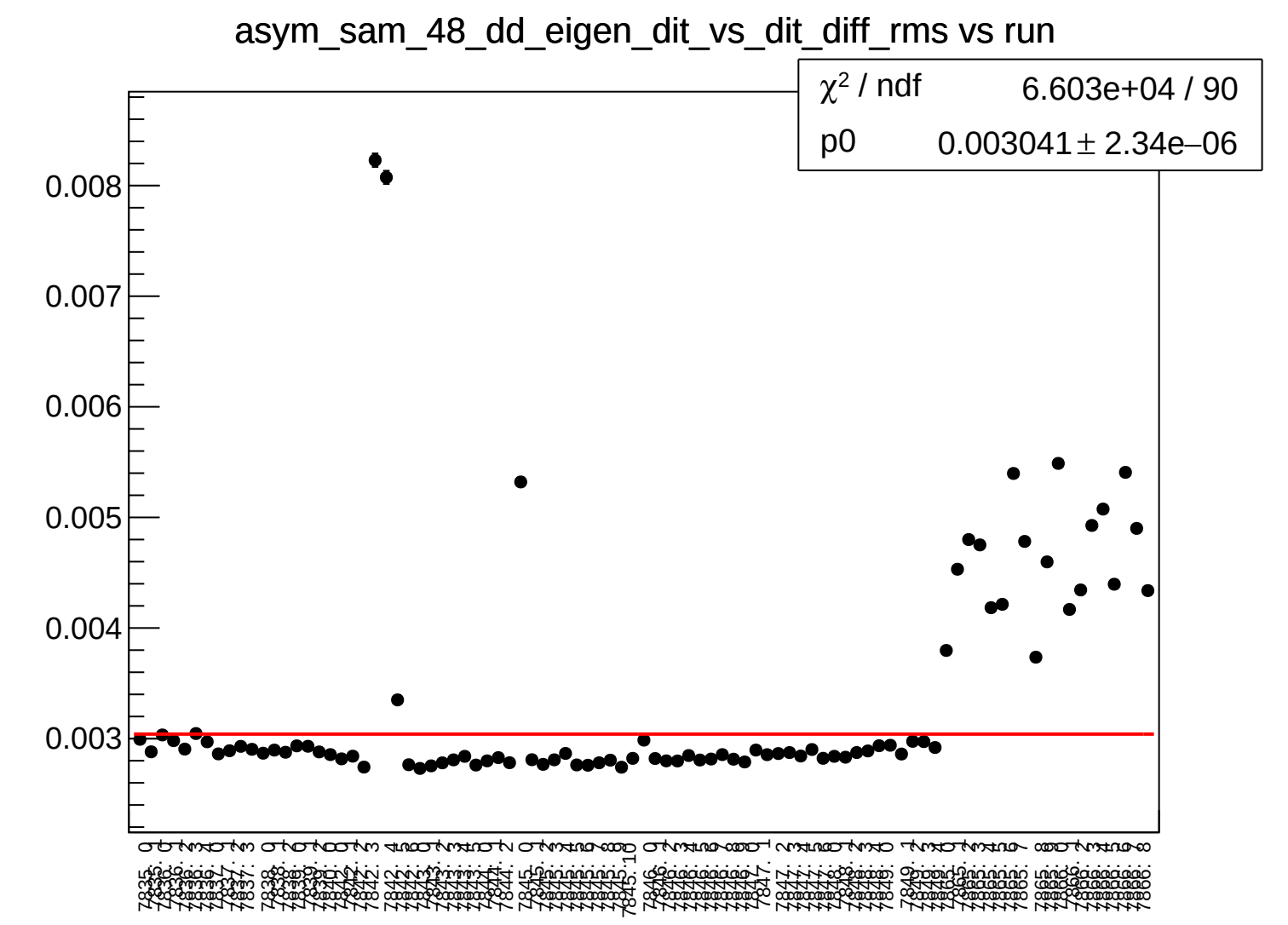

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.87e+04 / 90
p0 74.64 ± 0.05782
350
300
250
200
150
100
50

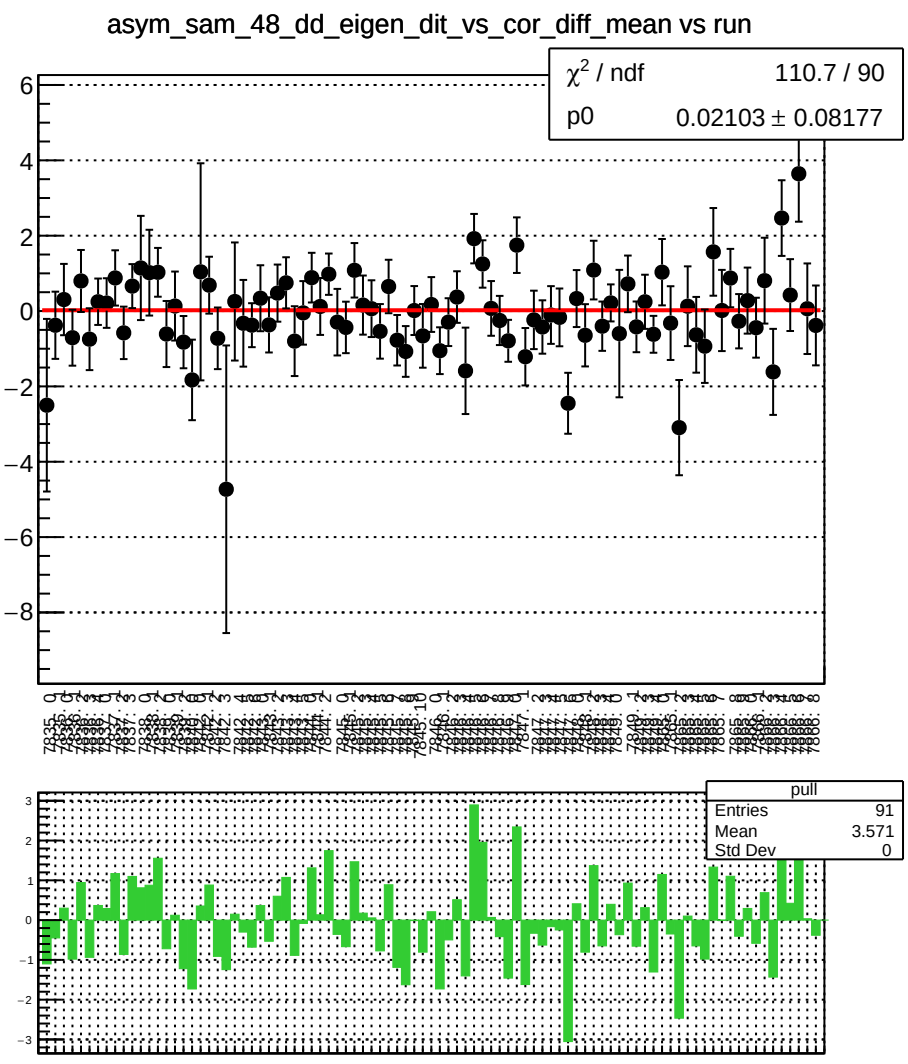

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02103 ± 0.08177
pull
Entries 91
Mean 3.574
Std Dev 0
pull1D
Entries 91
Mean −0.02298
Std Dev 1.103

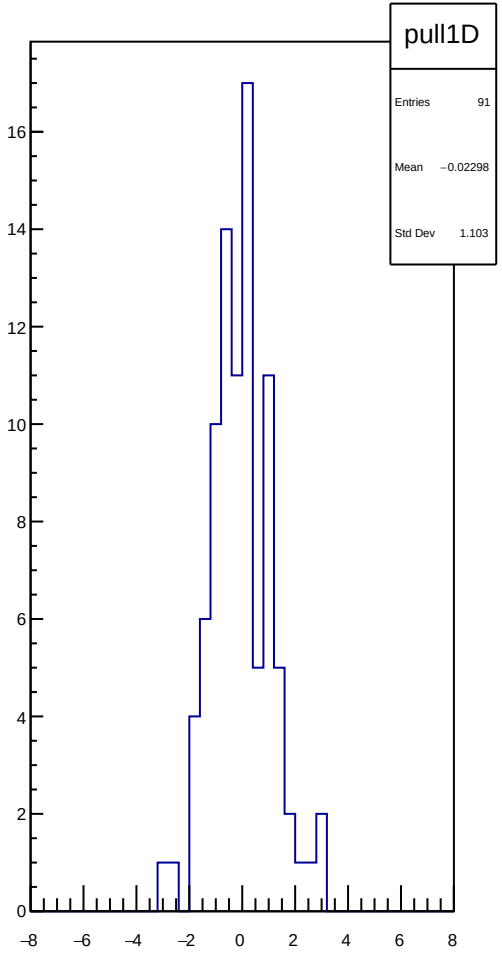

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.87e+04 / 90
p0 74.64 ± 0.05782
350
300
250
200
150
100
50

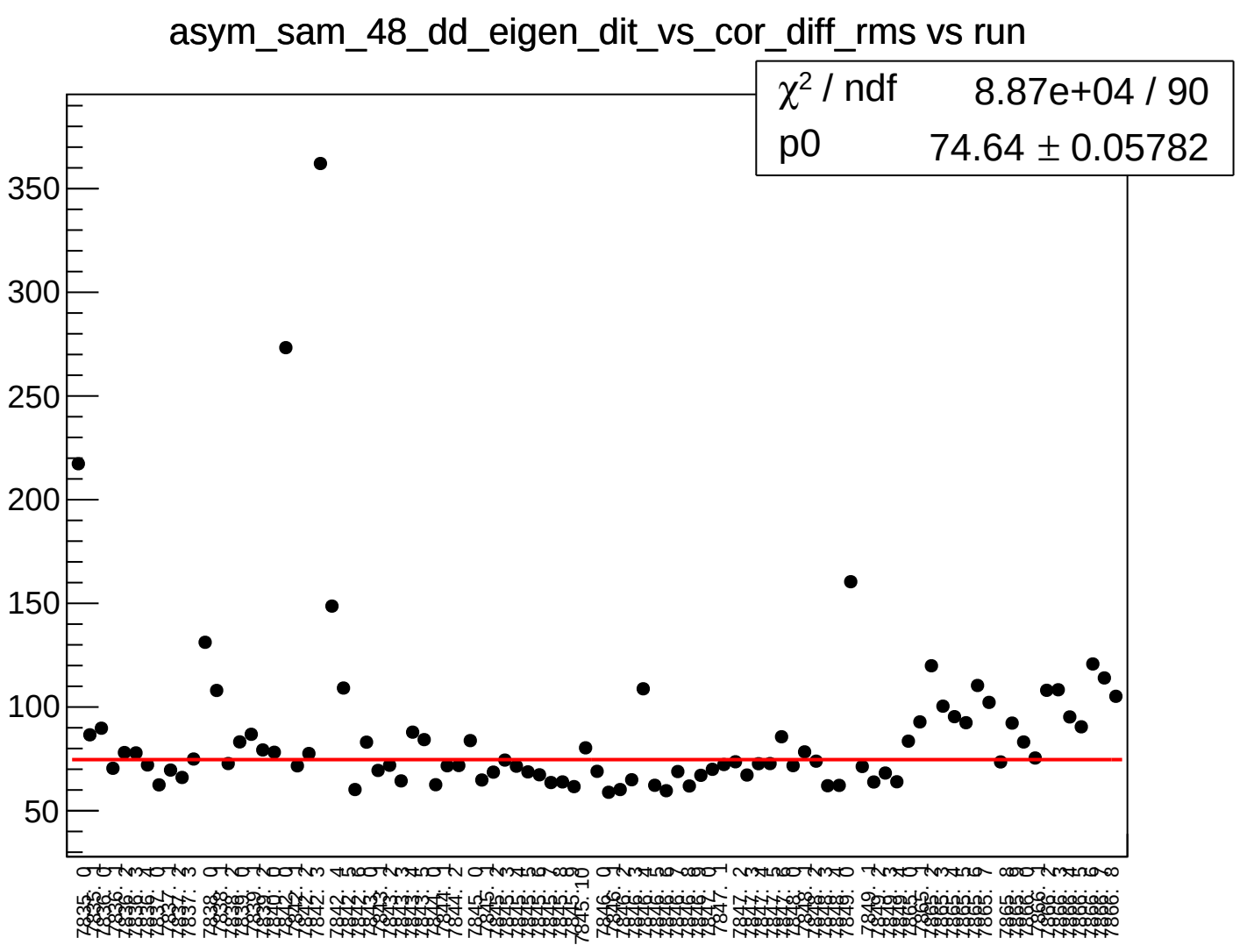

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107 / 90
p0 −7.341e−06 ± 3.309e−06
pull
Entries 91
Mean −29.08
Std Dev 0

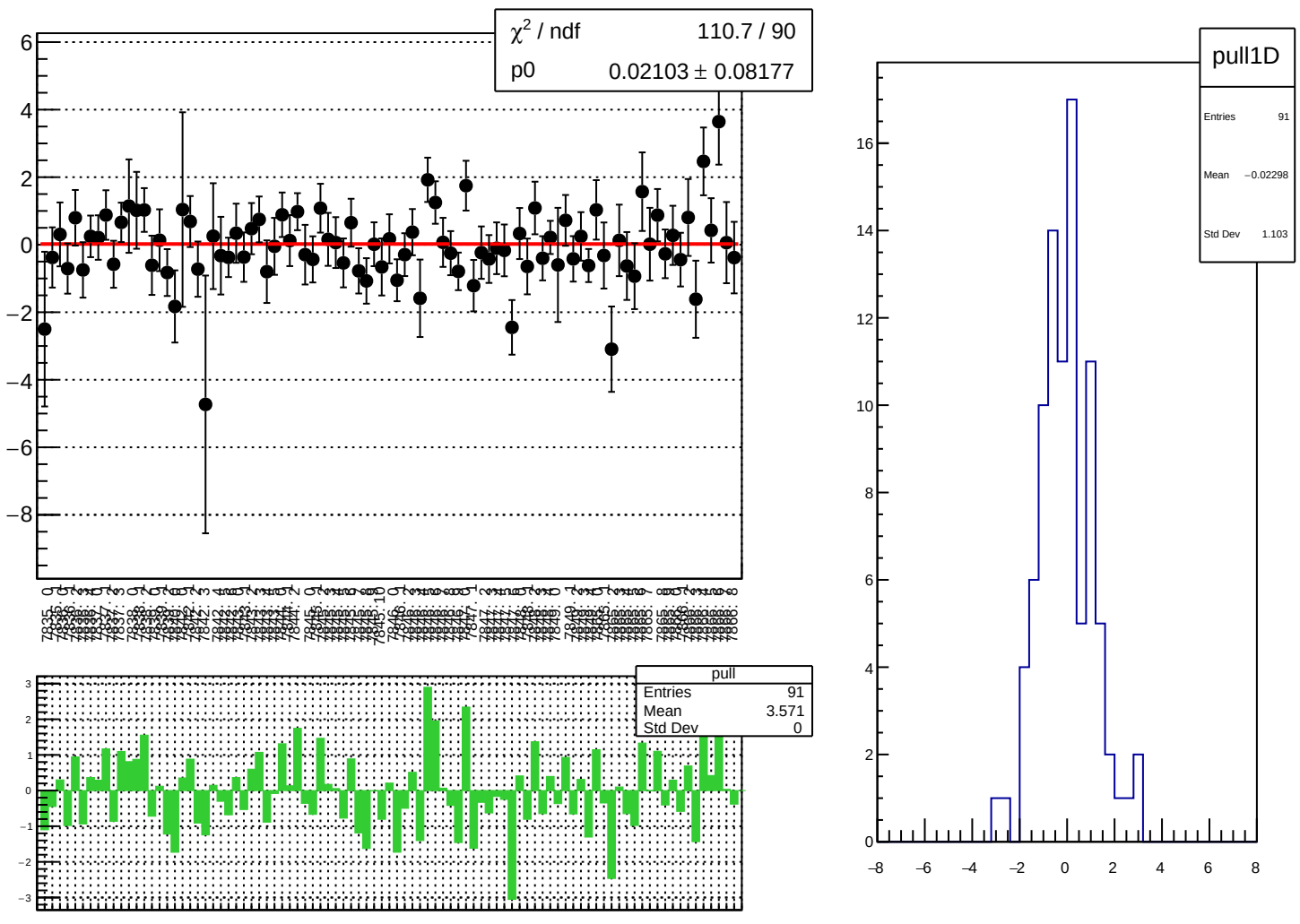

pull1D
Entries 91
Mean 0.02783
Std Dev 1.084

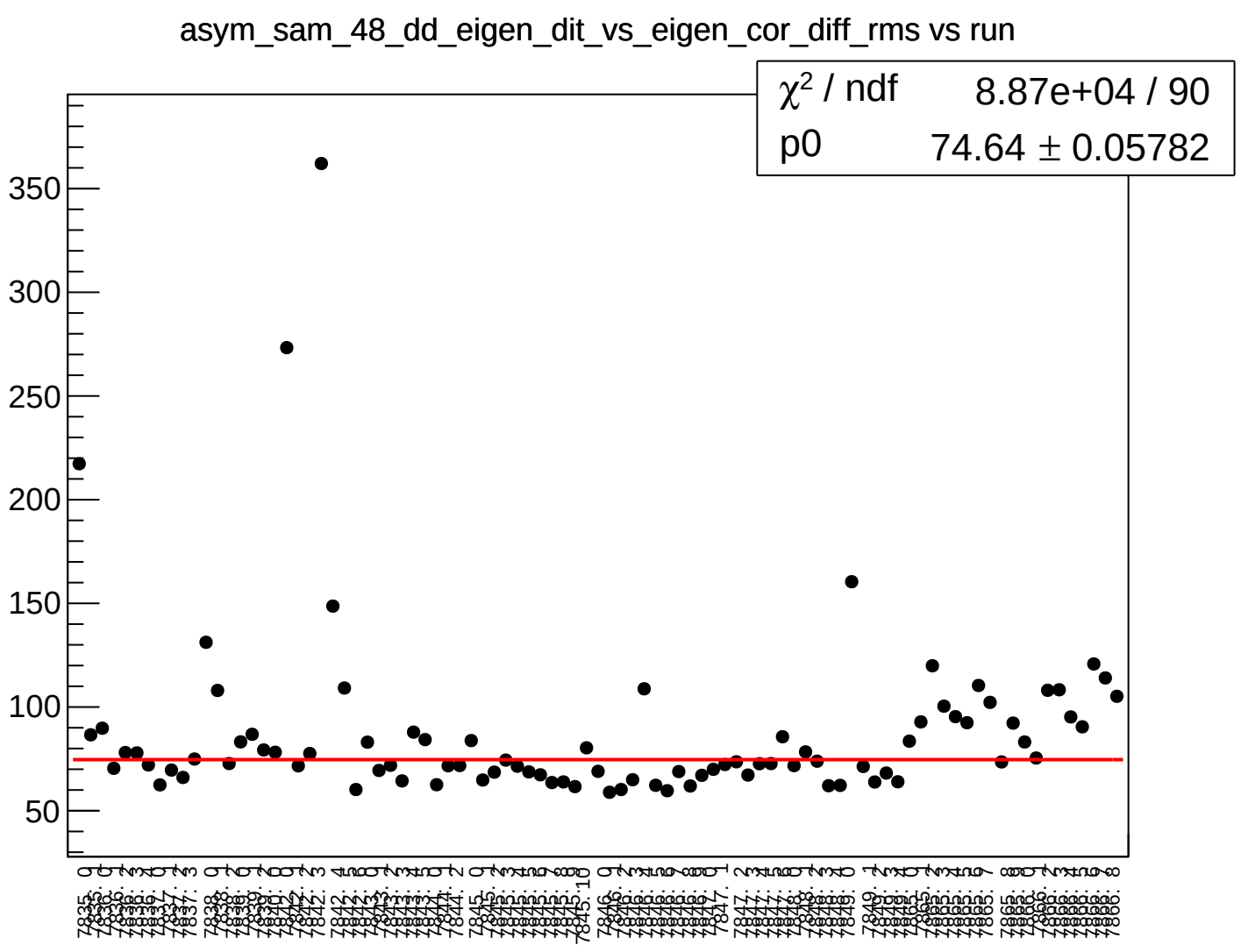

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.603e+04 / 90
p0 0.003041 ± 2.34e−06
0.008
0.007
0.006
0.005
0.004
0.003

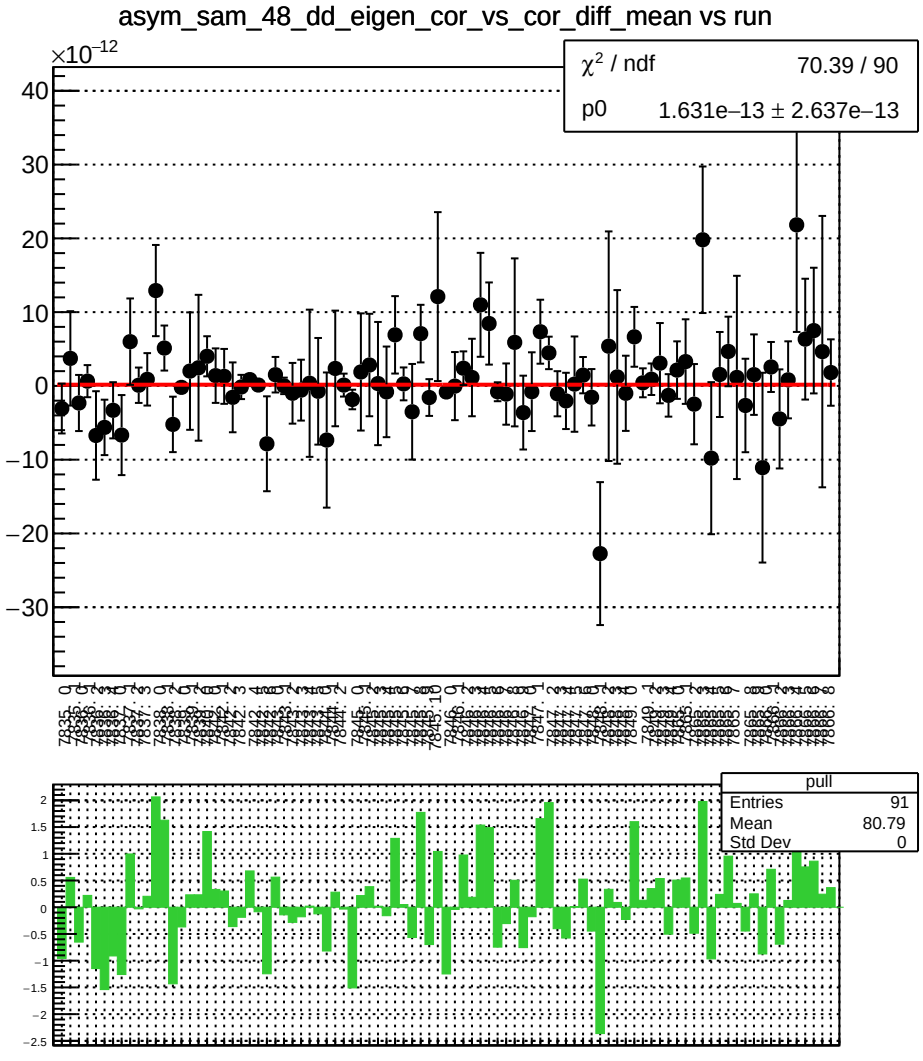

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02103 ± 0.08177
pull
Entries 91
Mean 3.571
Std Dev 0

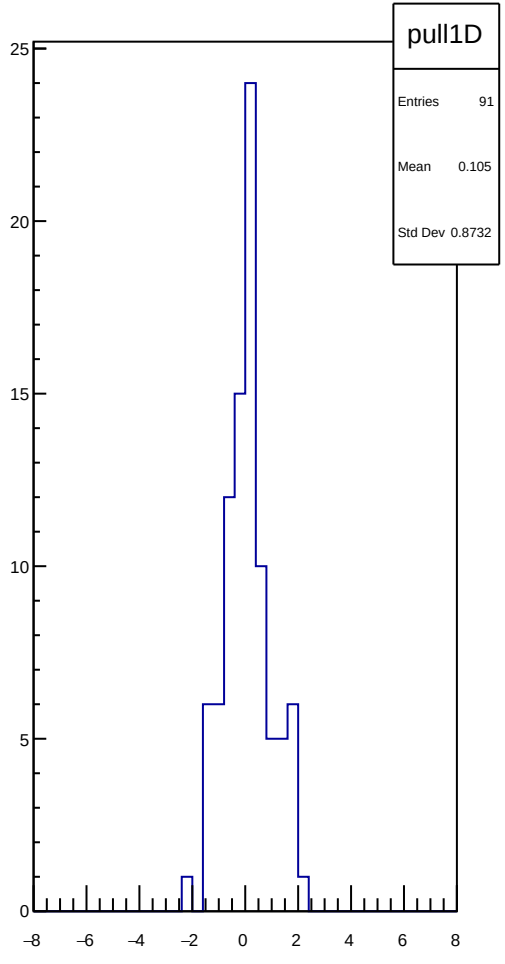

pull1D
Entries 91
Mean −0.02298
Std Dev 1.103

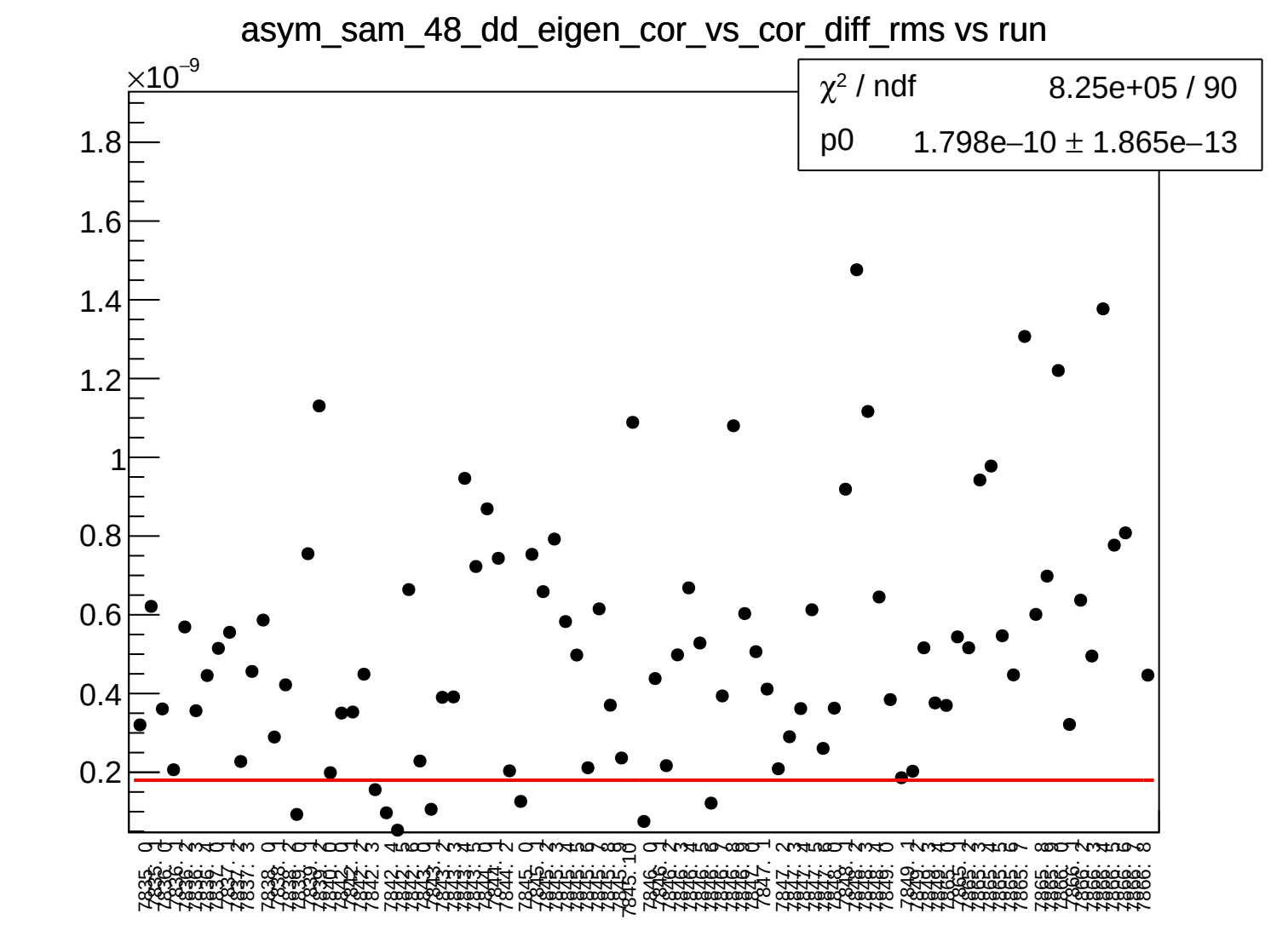

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.87e+04 / 90
p0 74.64 ± 0.05782
350
300
250
200
150
100
50

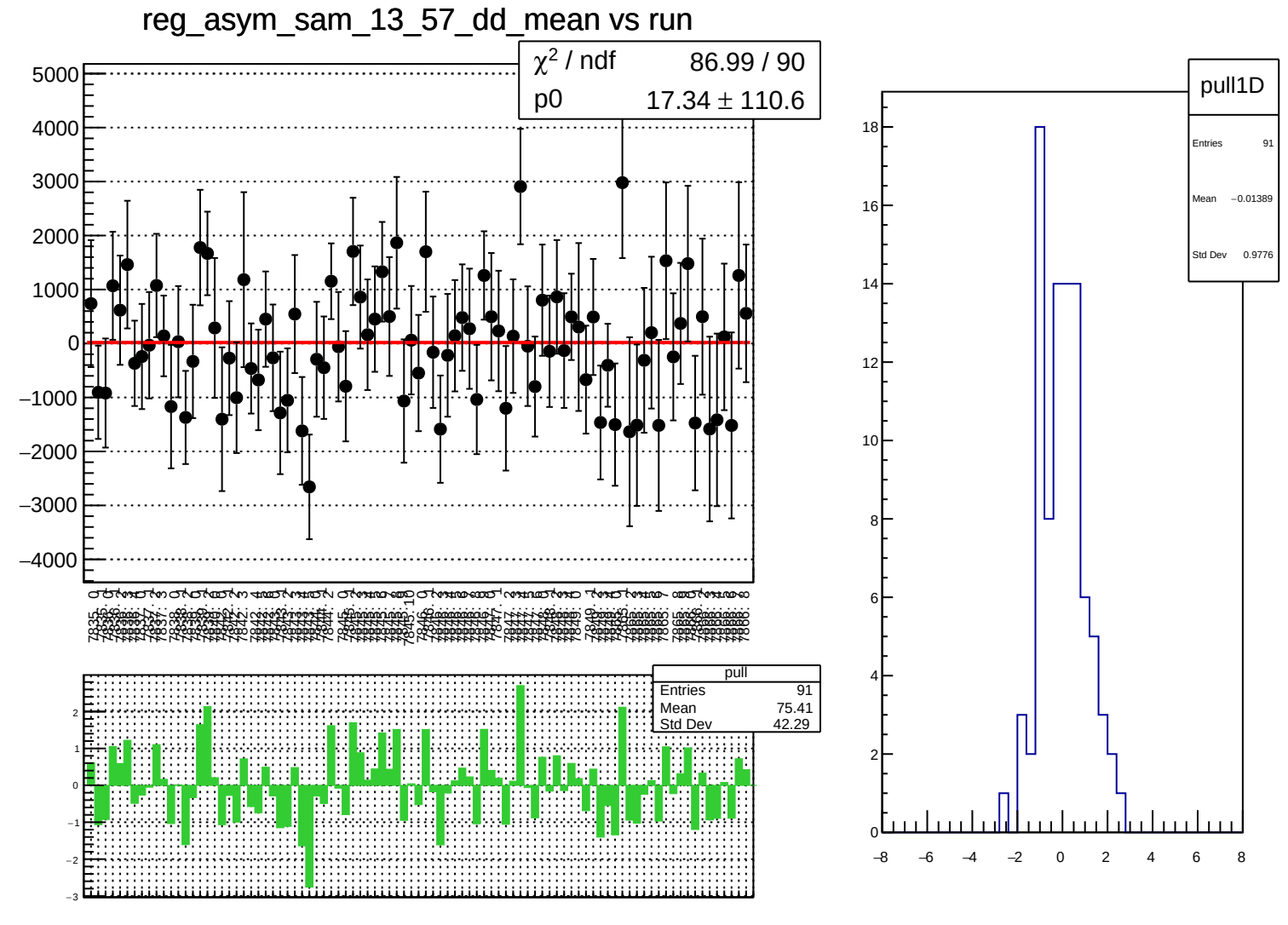

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02103 ± 0.08177
pull
Entries 91
Mean 3.571
Std Dev 0
pull1D
Entries 91
Mean −0.02298
Std Dev 1.103

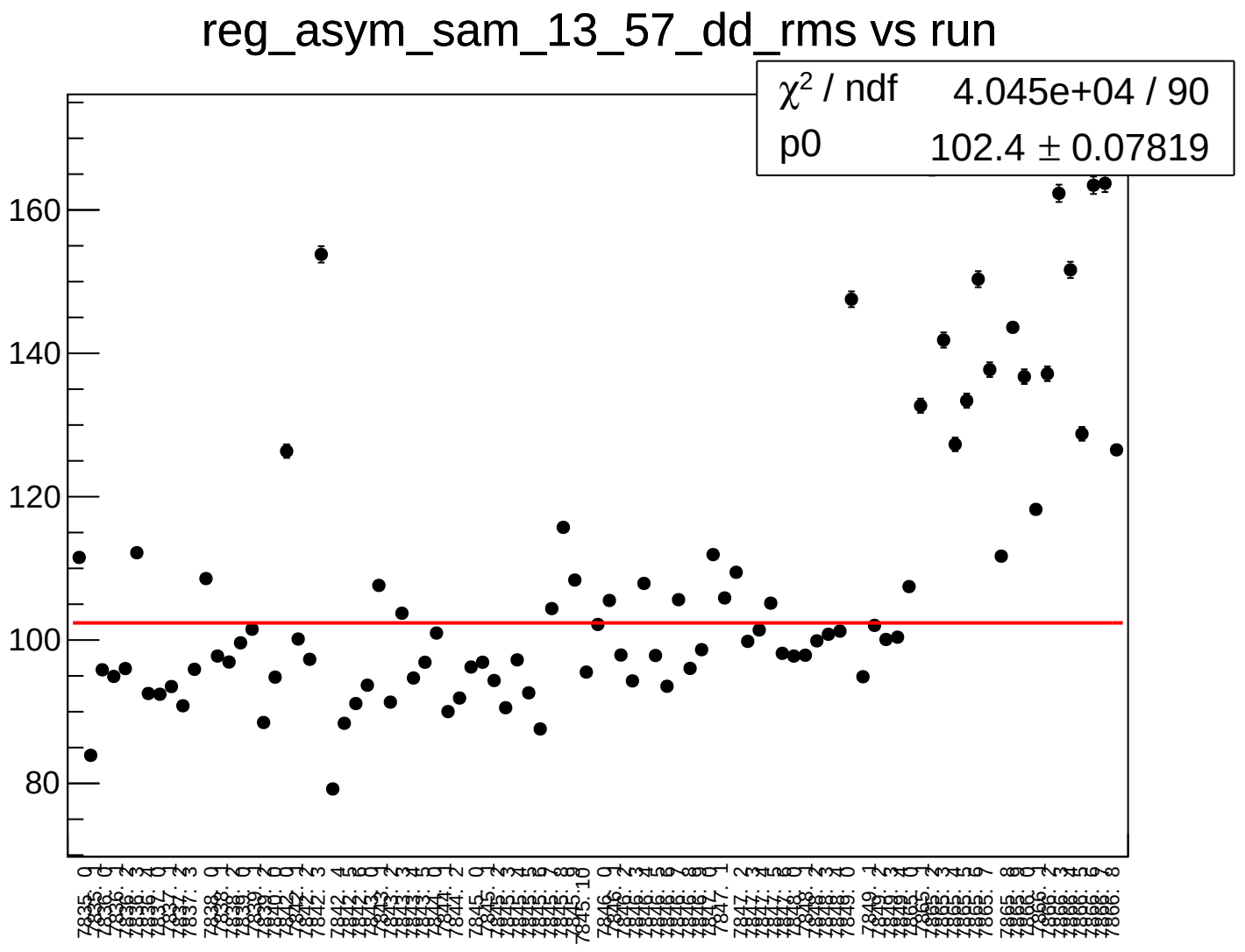

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.87e+04 / 90
p0 74.64 ± 0.05782
350
300
250
200
150
100
50

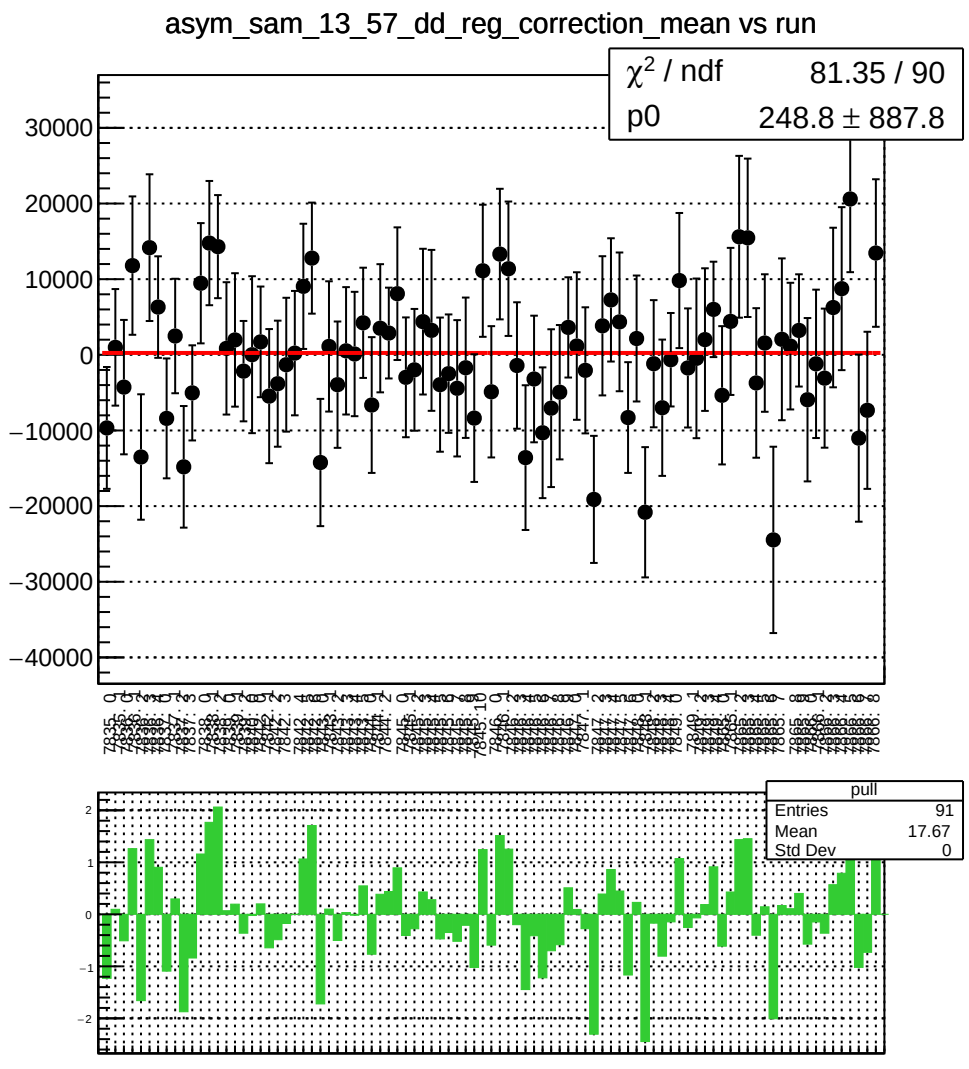

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.39 / 90
p0 1.631e−13 ± 2.637e−13
pull
Entries 91
Mean 80.79
Std Dev 0

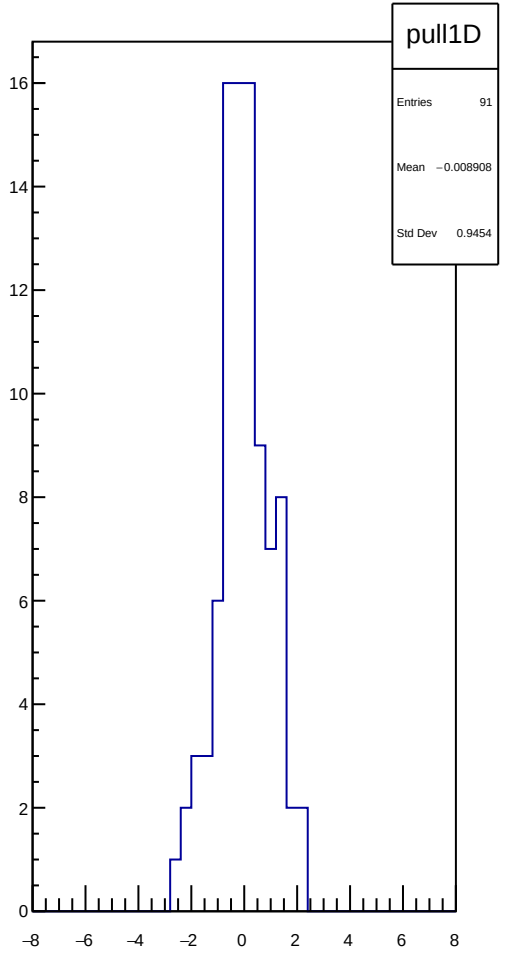

pull1D
Entries 91
Mean 0.105
Std Dev 0.8732

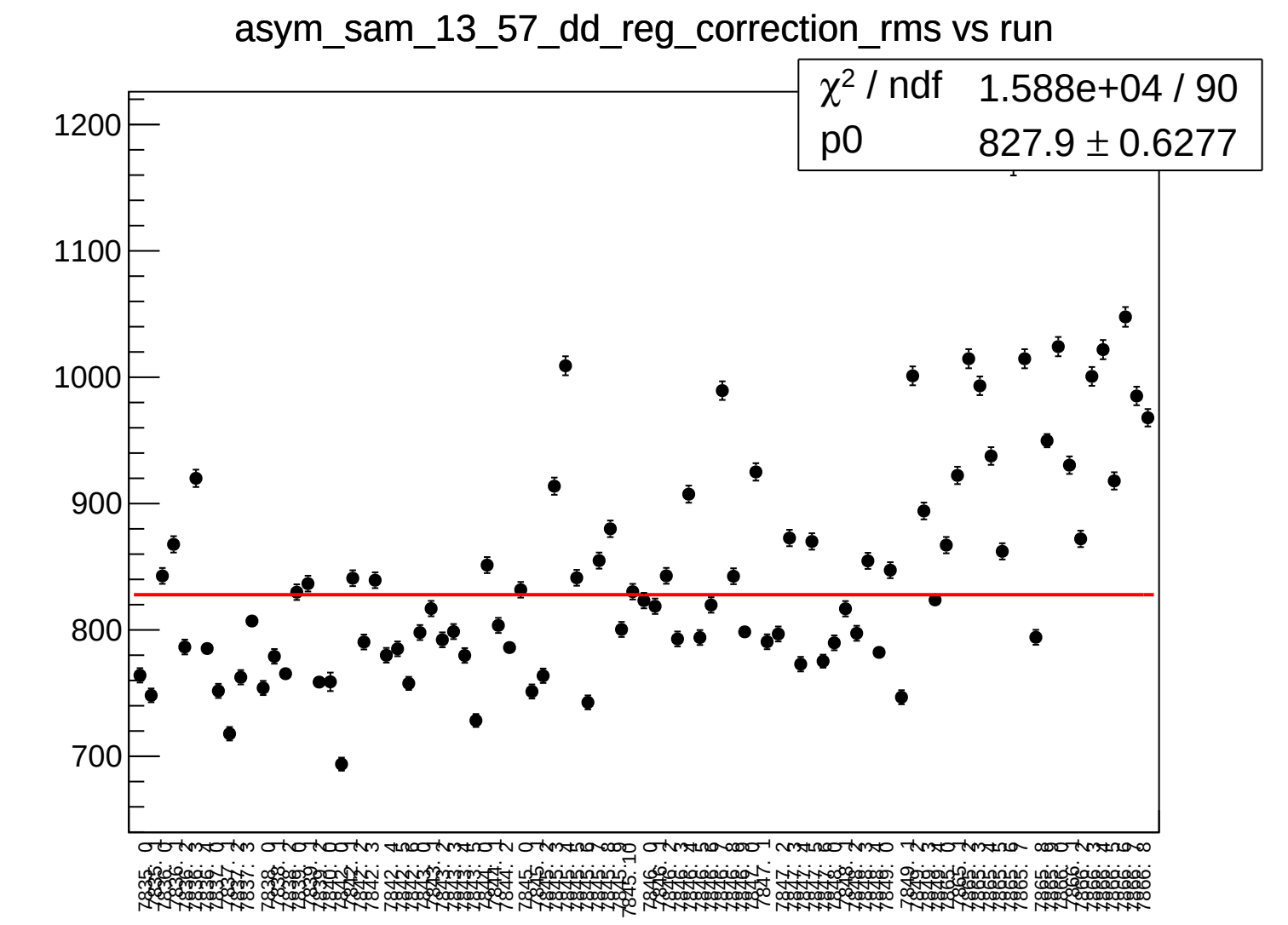

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.25e+05 / 90
p0 1.798e−10 ± 1.865e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

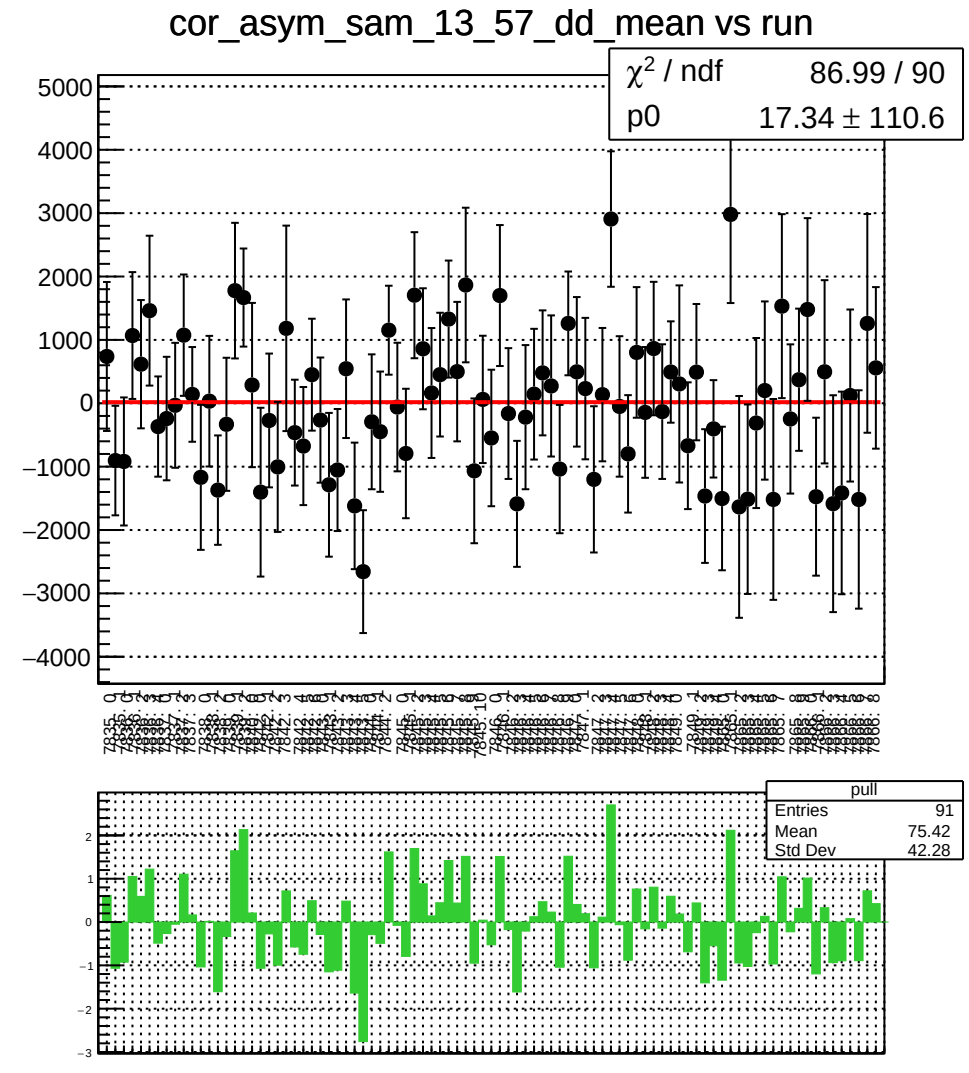

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.99 / 90
p0 17.34 ± 110.6
pull
Entries 91
Mean 75.41
Std Dev 42.29
pull1D
Entries 91
Mean −0.01389
Std Dev 0.9776

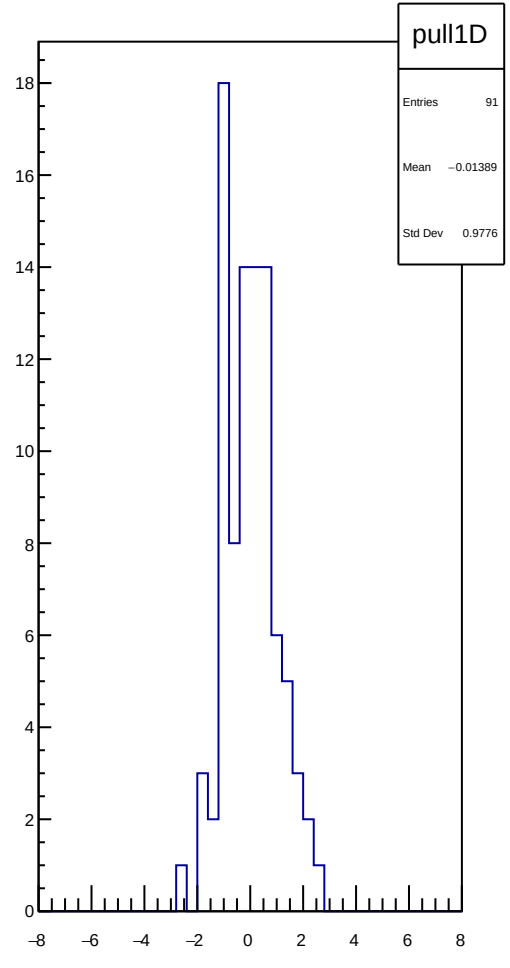

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.045e+04 / 90
p0 102.4 ± 0.07819
160
140
120
100
80

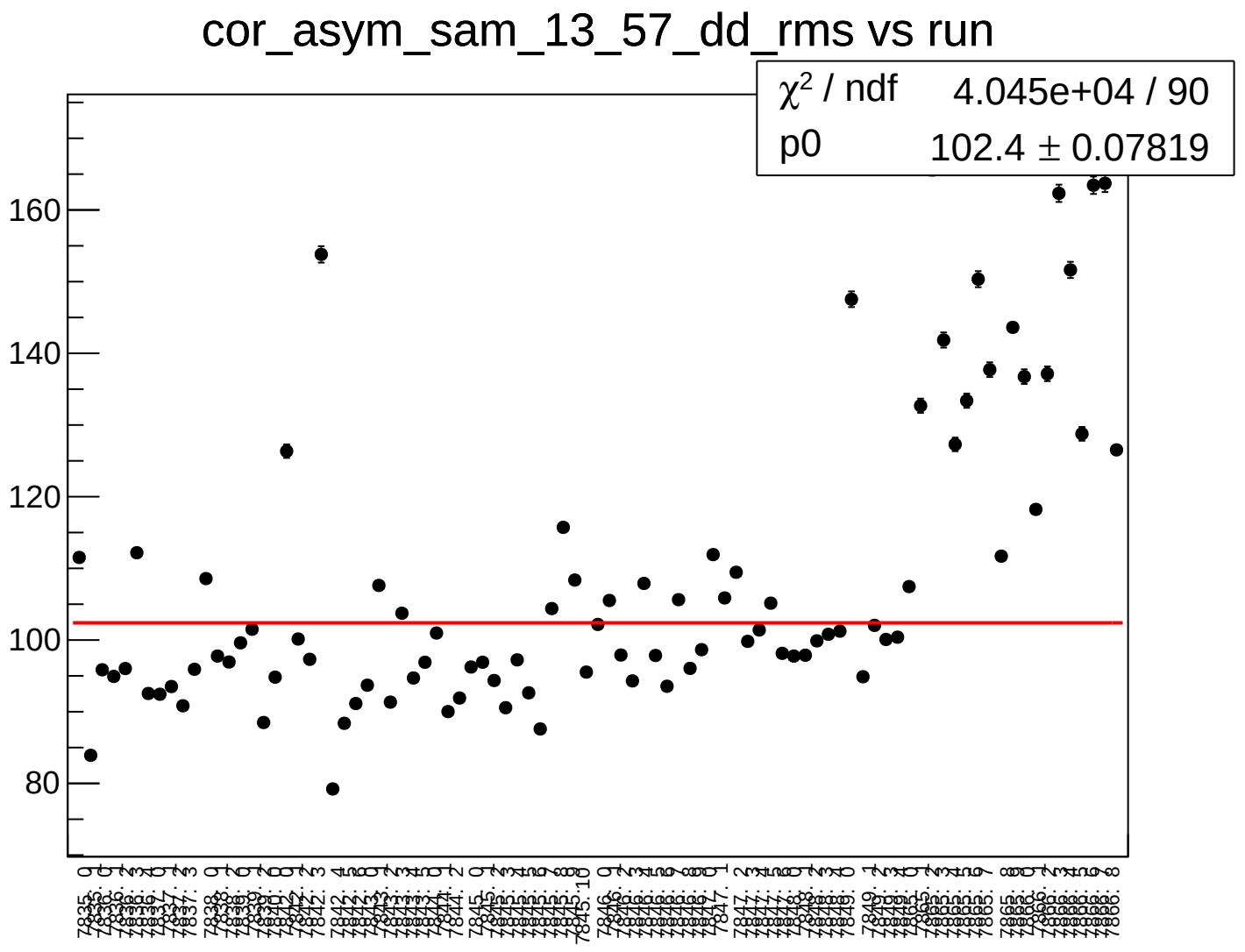

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 81.35 / 90
p0 248.8 ± 887.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 17.67
Std Dev 0
2
1
0
−1
−2

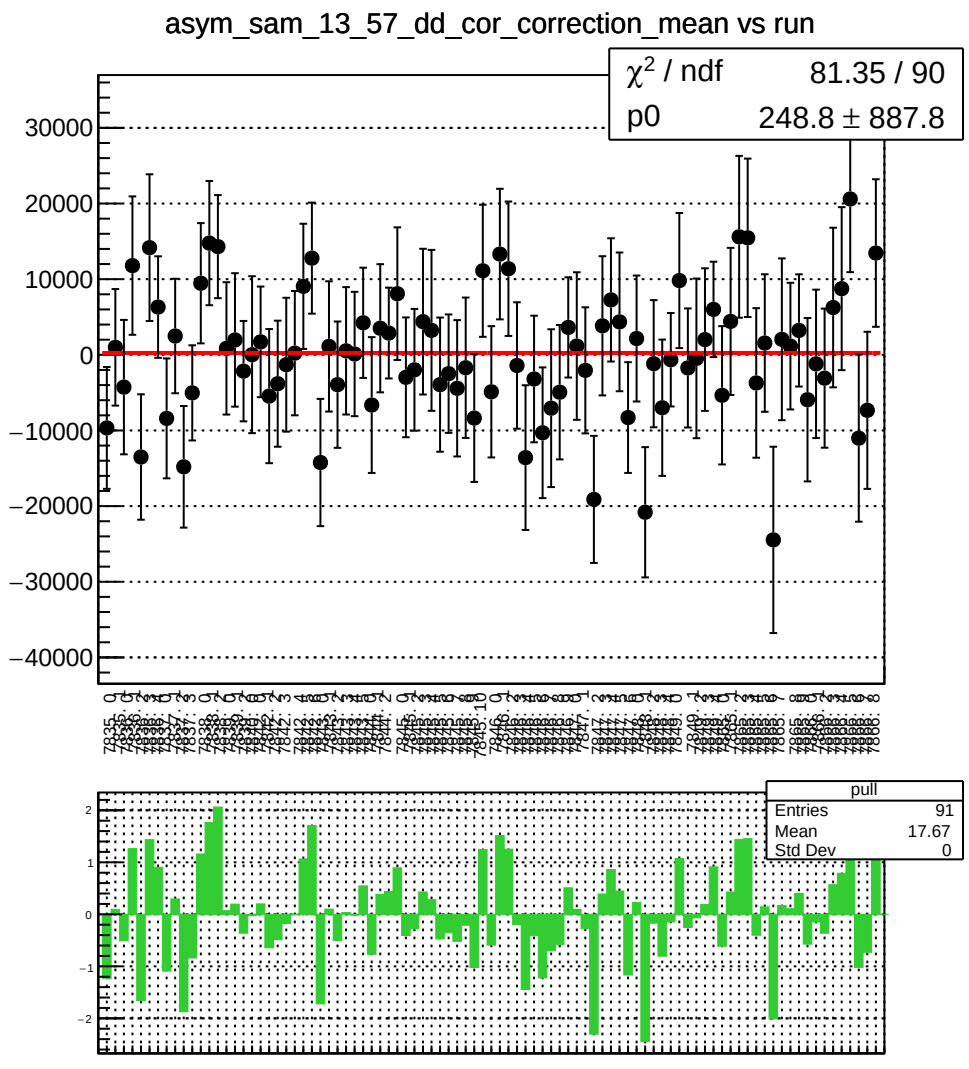

pull1D
Entries 91
Mean −0.008908
Std Dev 0.9454
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

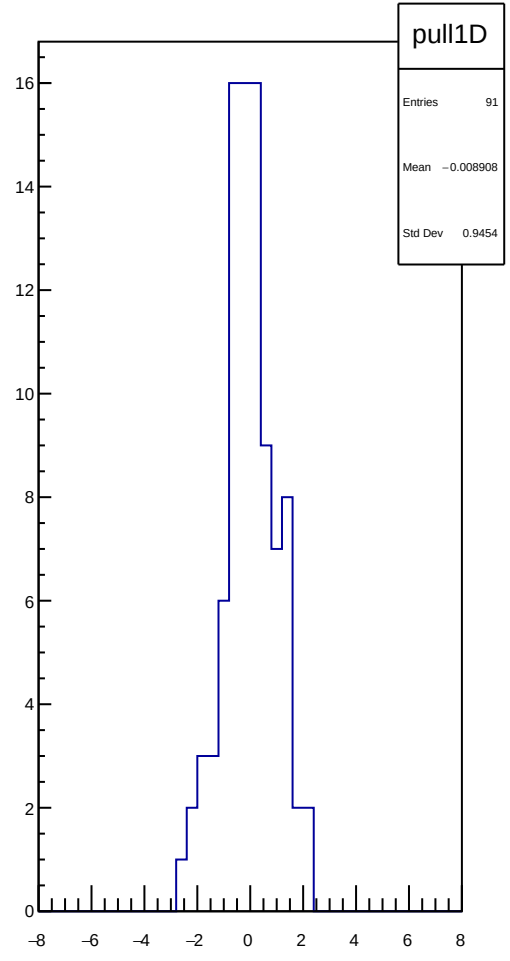

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.588e+04 / 90
p0 827.9 ± 0.6277
1200
1100
1000
900
800
700

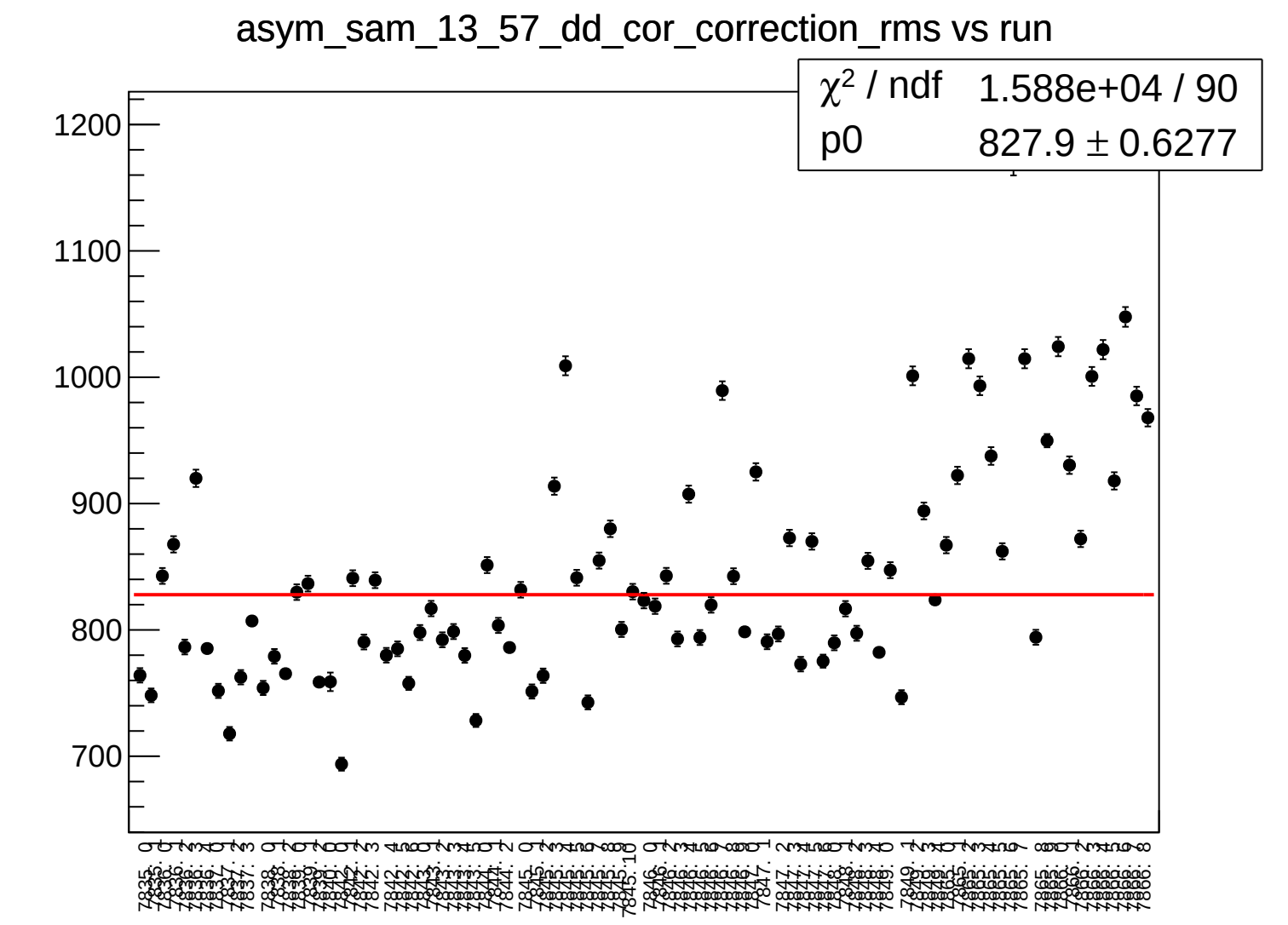

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.99 / 90
p0 17.34 ± 110.6
pull
Entries 91
Mean 75.42
Std Dev 42.28

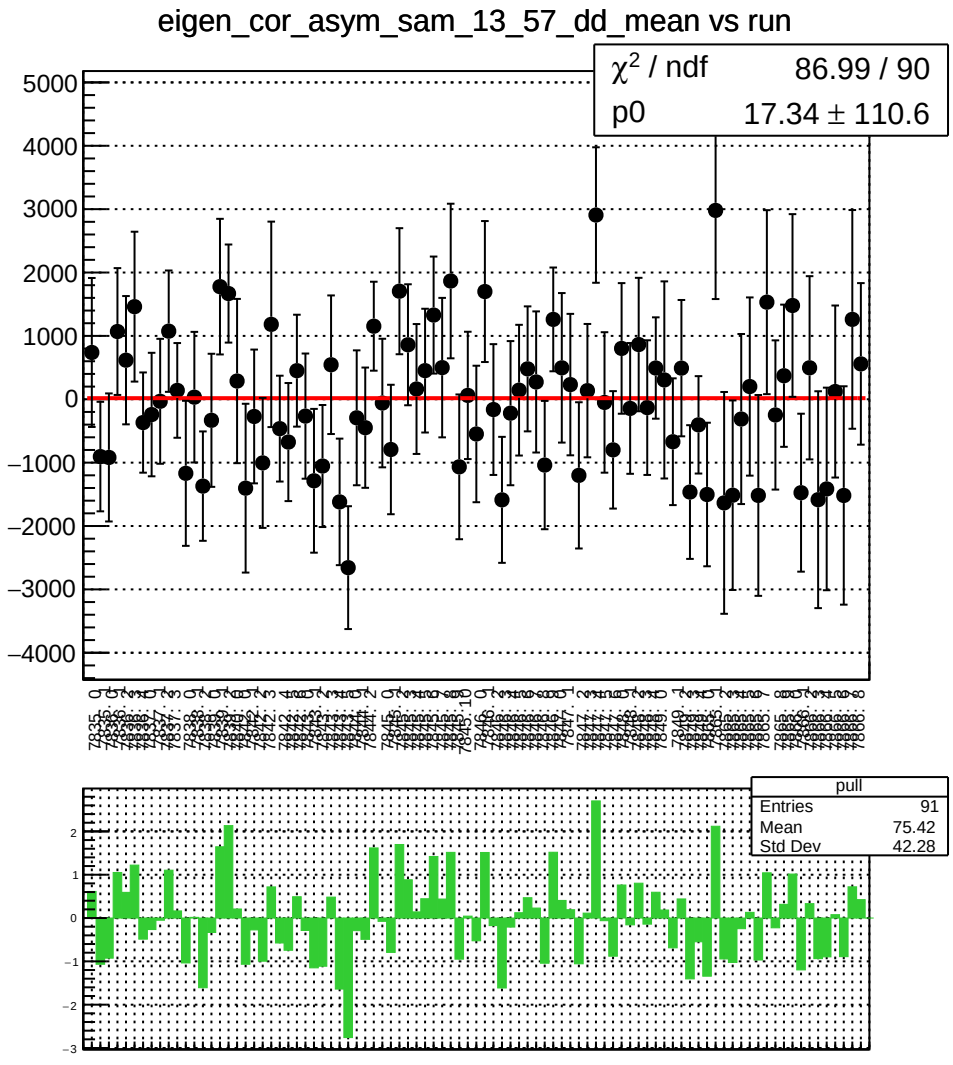

pull1D
Entries 91
Mean −0.01389
Std Dev 0.9776

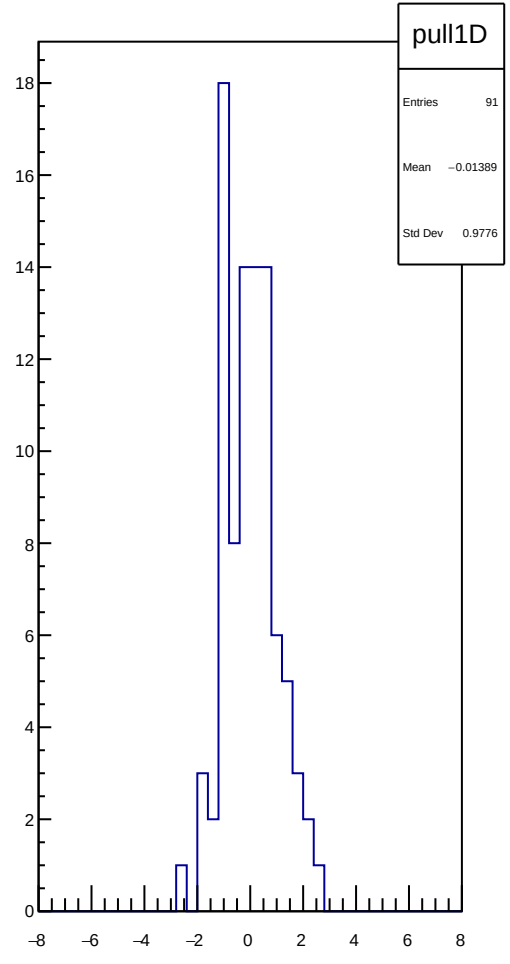

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.045e+04 / 90
p0 102.4 ± 0.07819
160
140
120
100
80

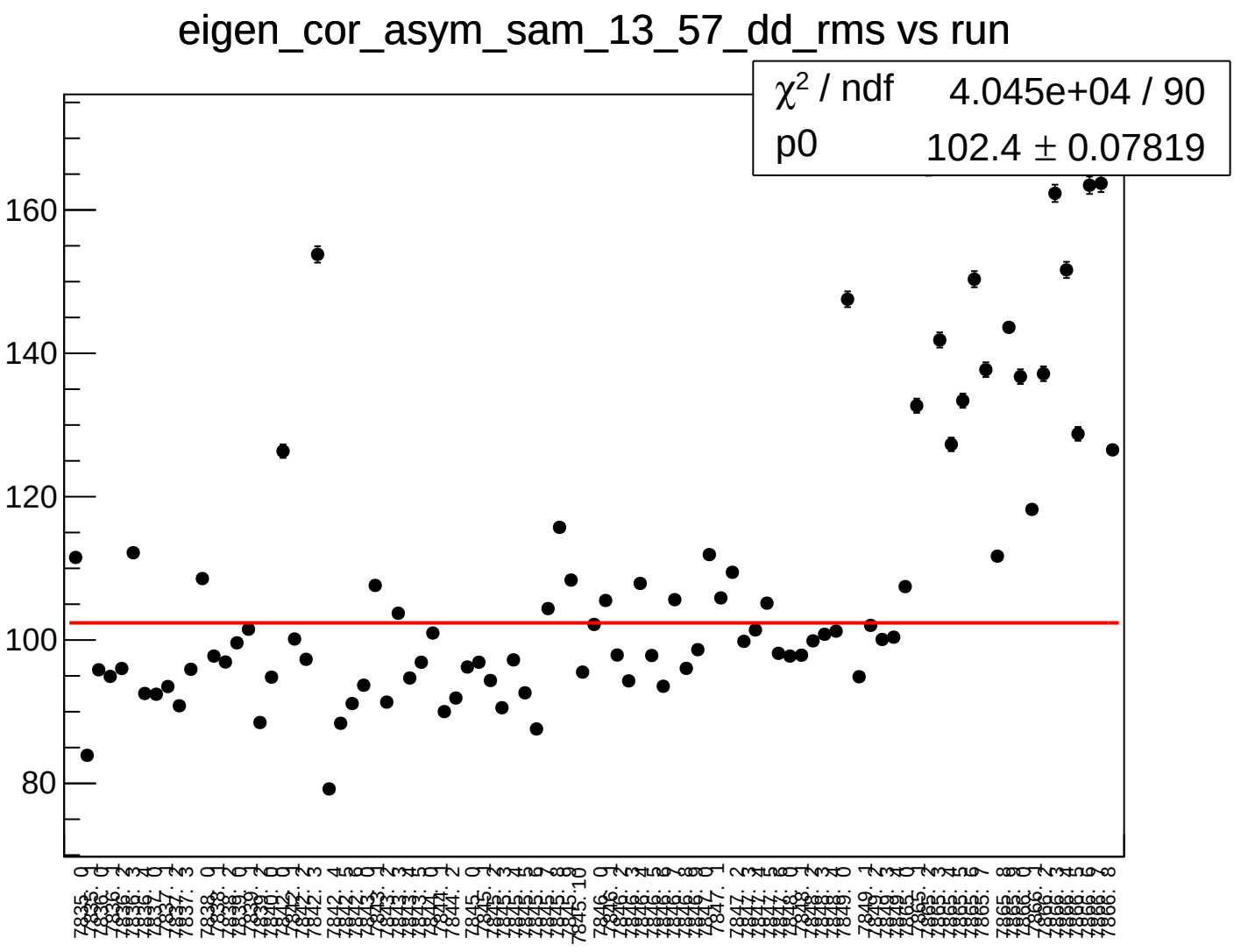

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 81.35 / 90
p0 248.8 ± 887.8
pull
Entries 91
Mean 17.67
Std Dev 0

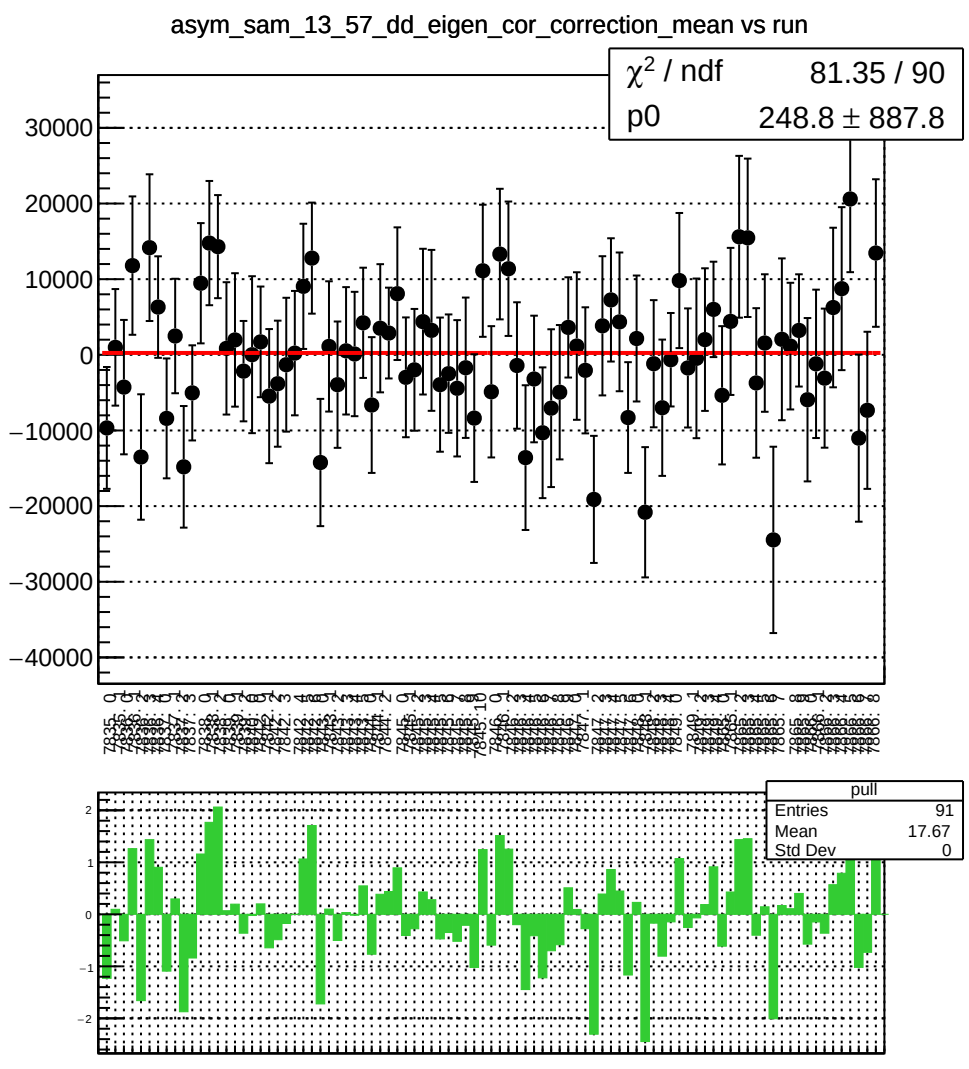

pull1D
Entries 91
Mean −0.008908
Std Dev 0.9454

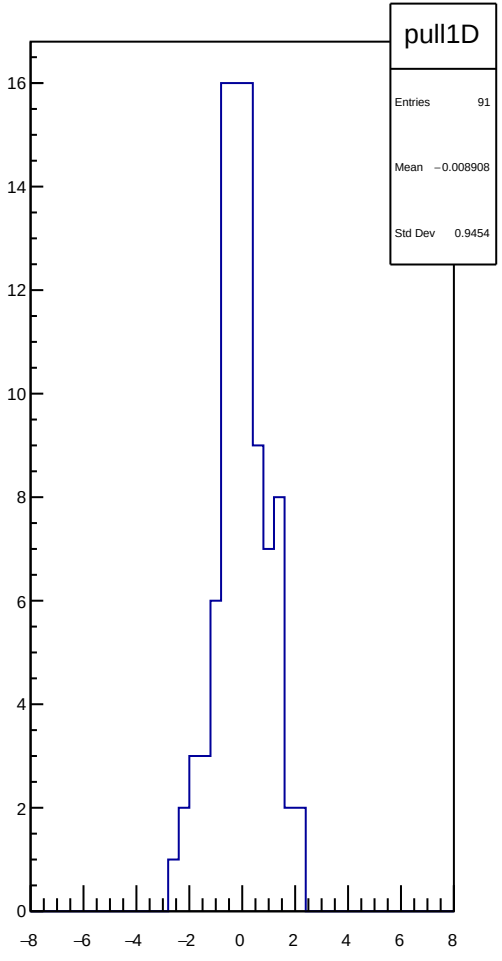

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.588e+04 / 90
p0 827.9 ± 0.6277
1200
1100
1000
900
800
700

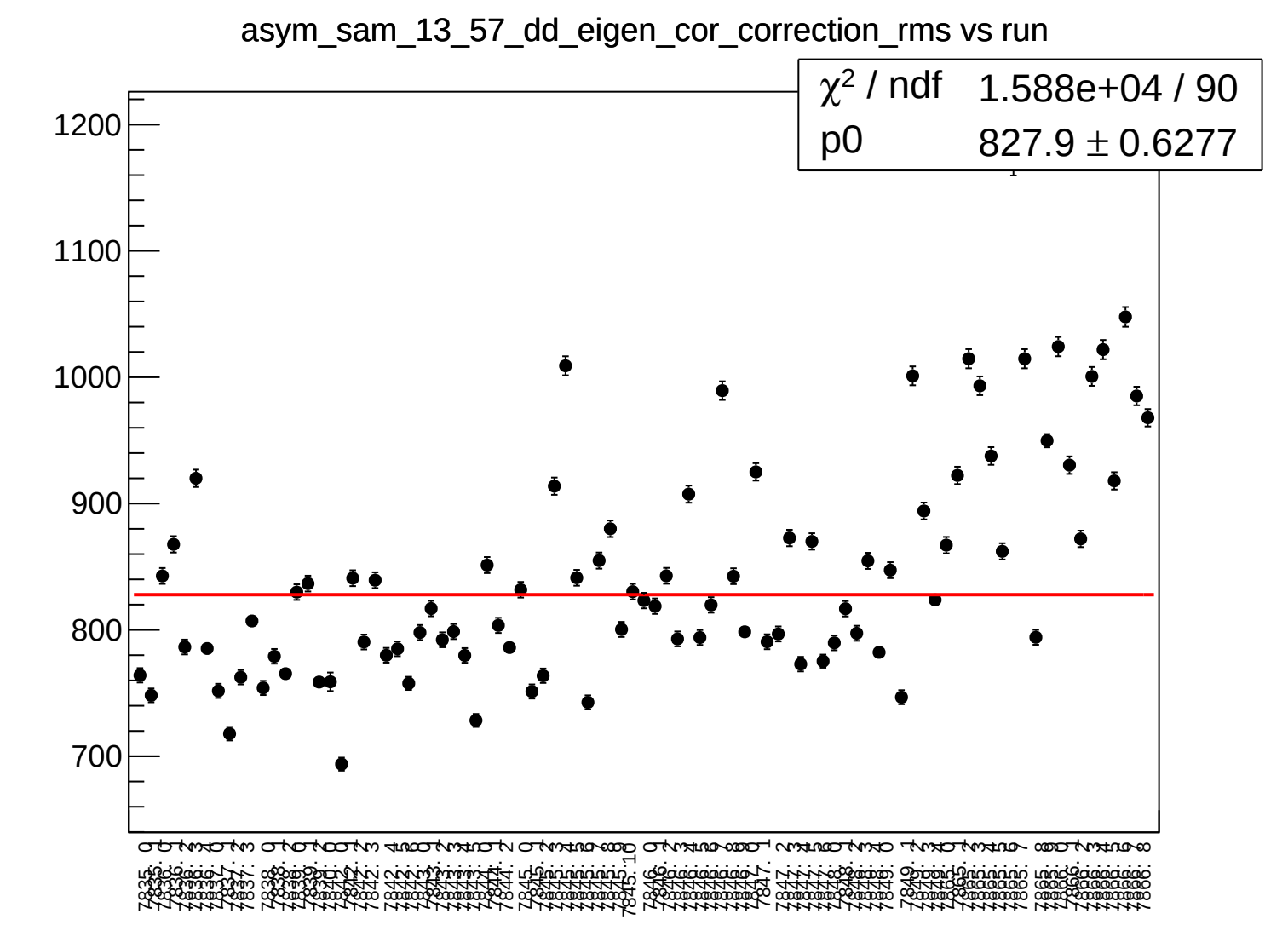

eigen_cor_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 86.99 / 90
p0 17.34 ± 110.6
pull
Entries 91
Mean 75.42
Std Dev 42.28

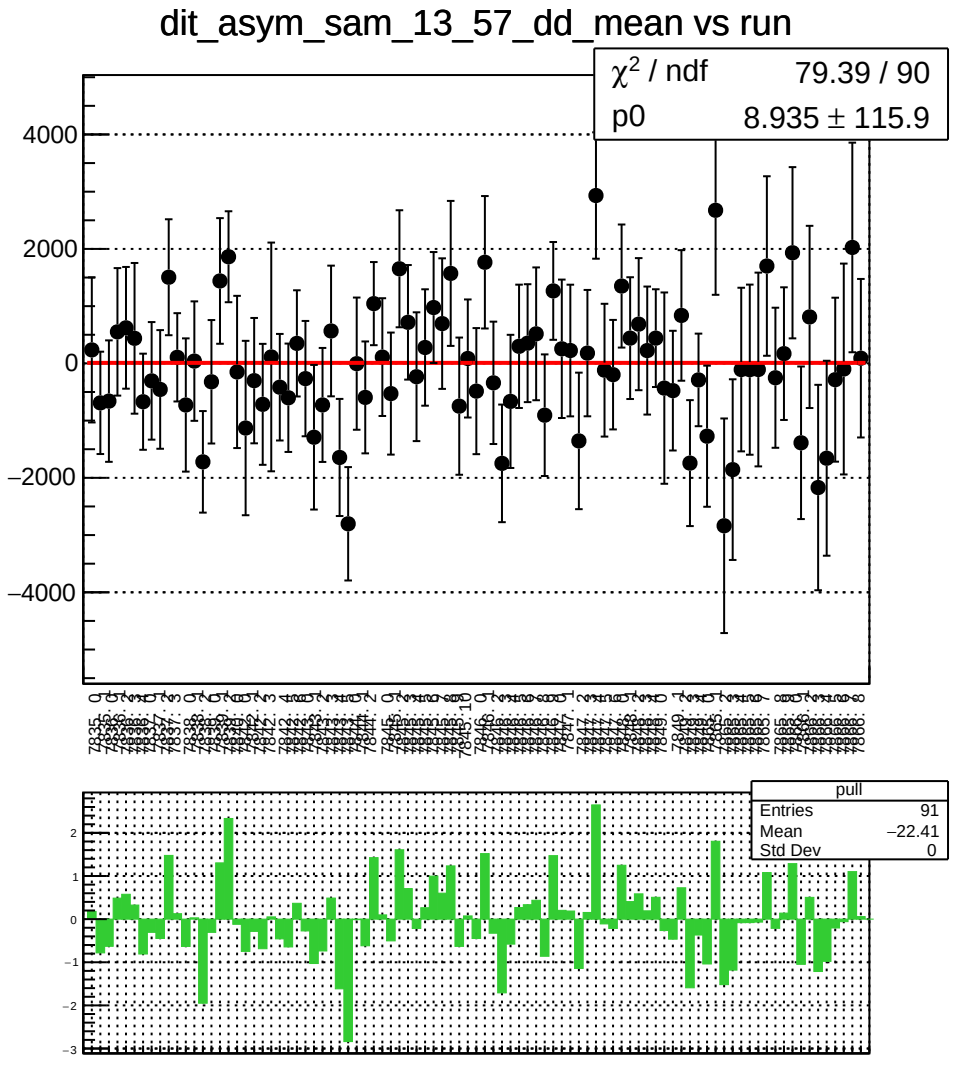

pull1D
Entries 91
Mean −0.01389
Std Dev 0.9776

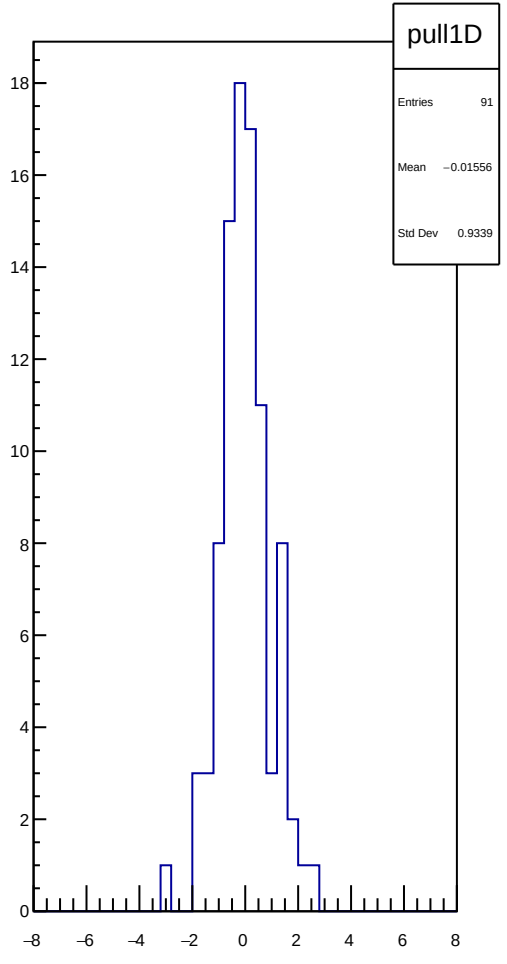

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.045e+04 / 90
p0 102.4 ± 0.07819
160
140
120
100
80

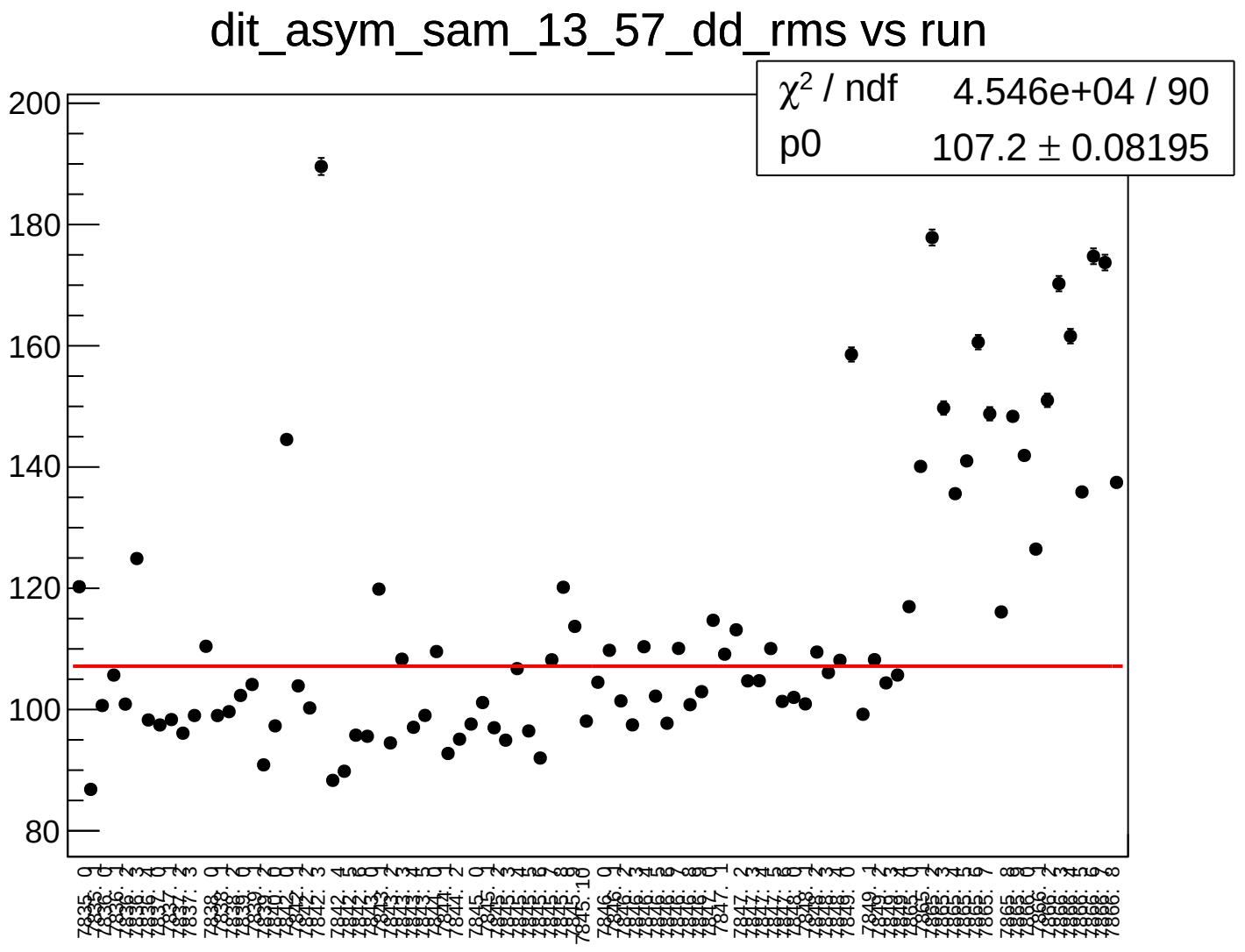

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.35 / 90
p0 248.8 ± 887.8
pull
Entries 91
Mean 17.67
Std Dev 0

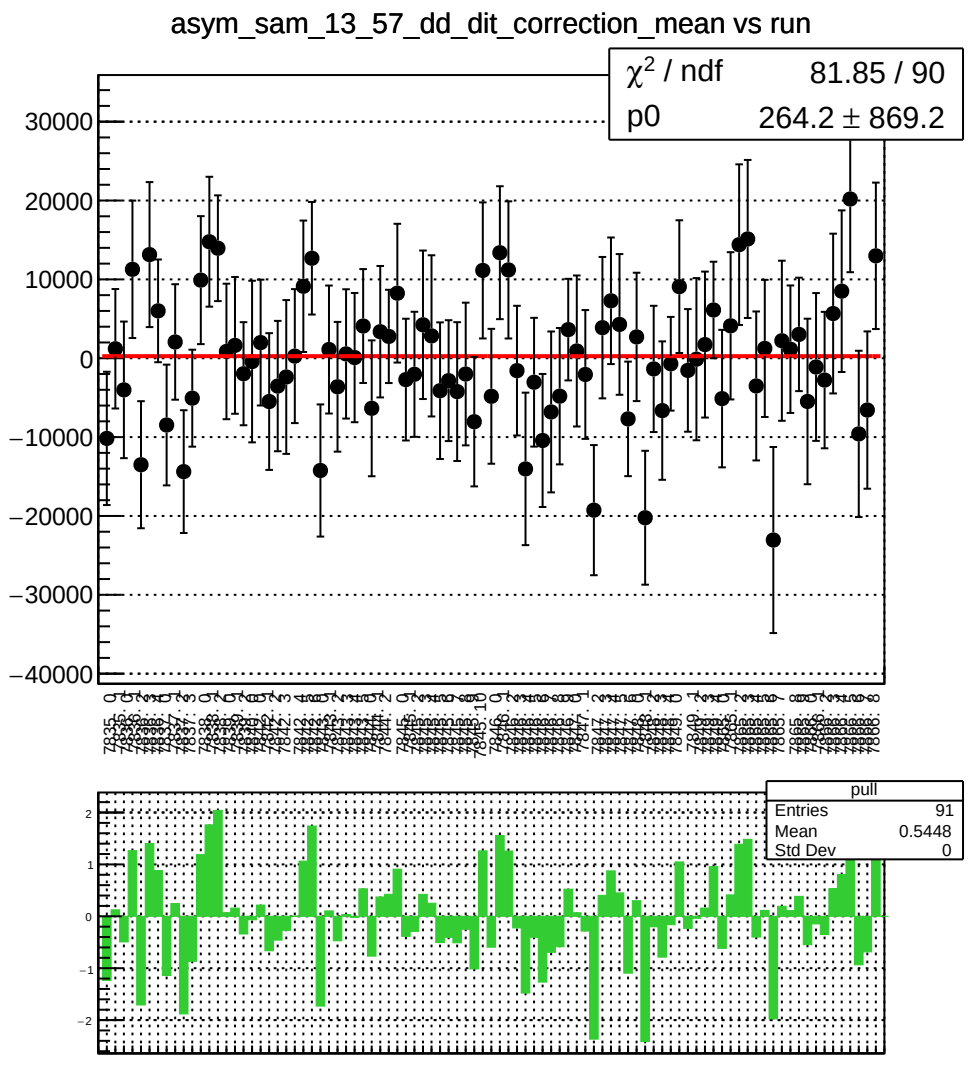

pull1D
Entries 91
Mean −0.008908
Std Dev 0.9454

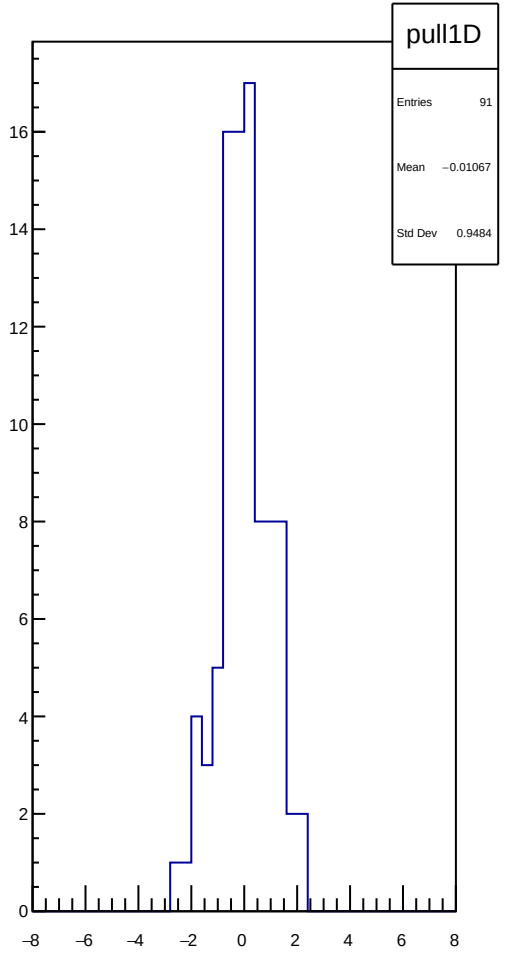

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.588e+04 / 90
p0 827.9 ± 0.6277
1200
1100
1000
900
800
700

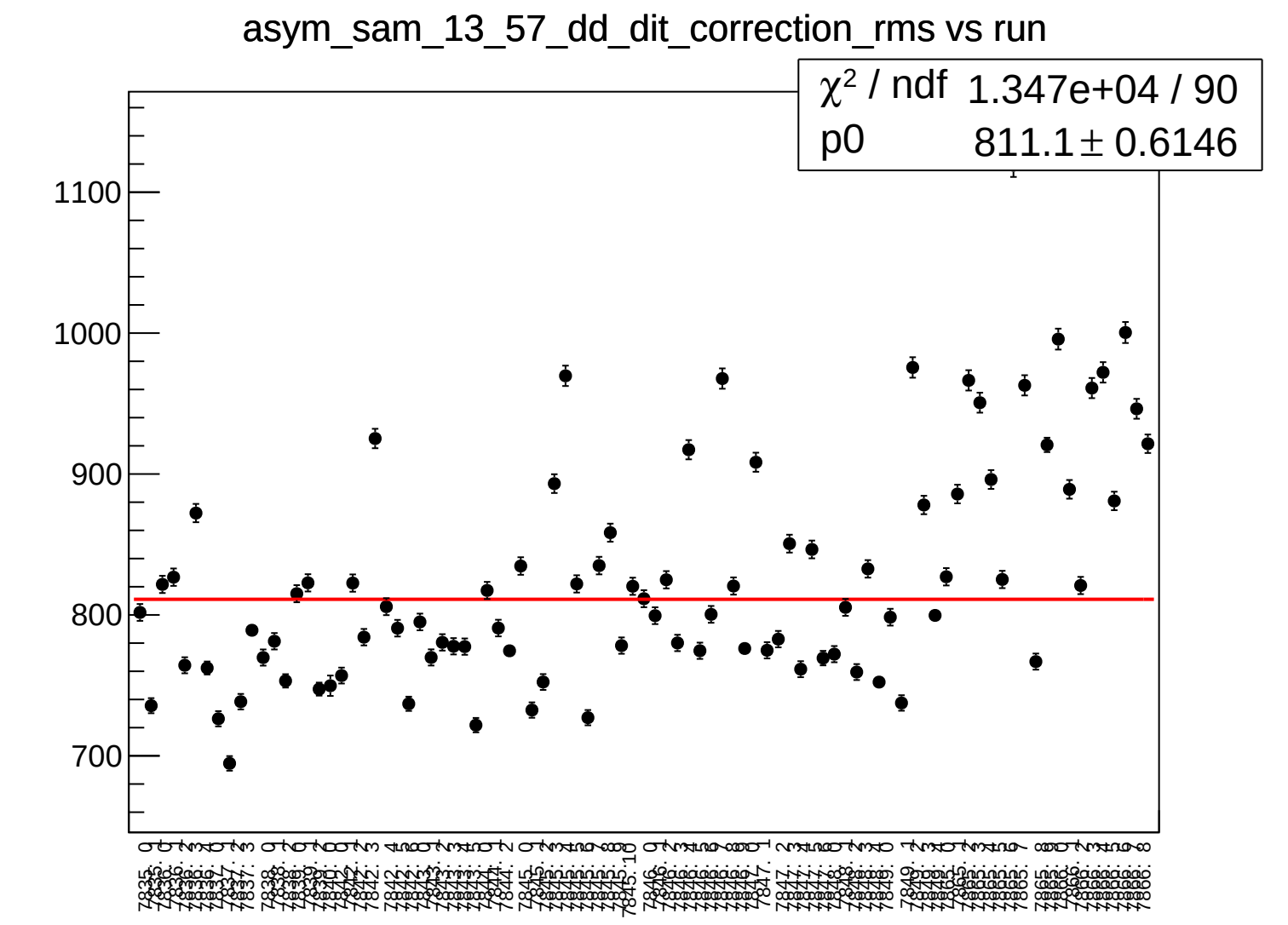

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 79.39 / 90
p0 8.935 ± 115.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −22.41
Std Dev 0
2
1
0
−1
−2
−3

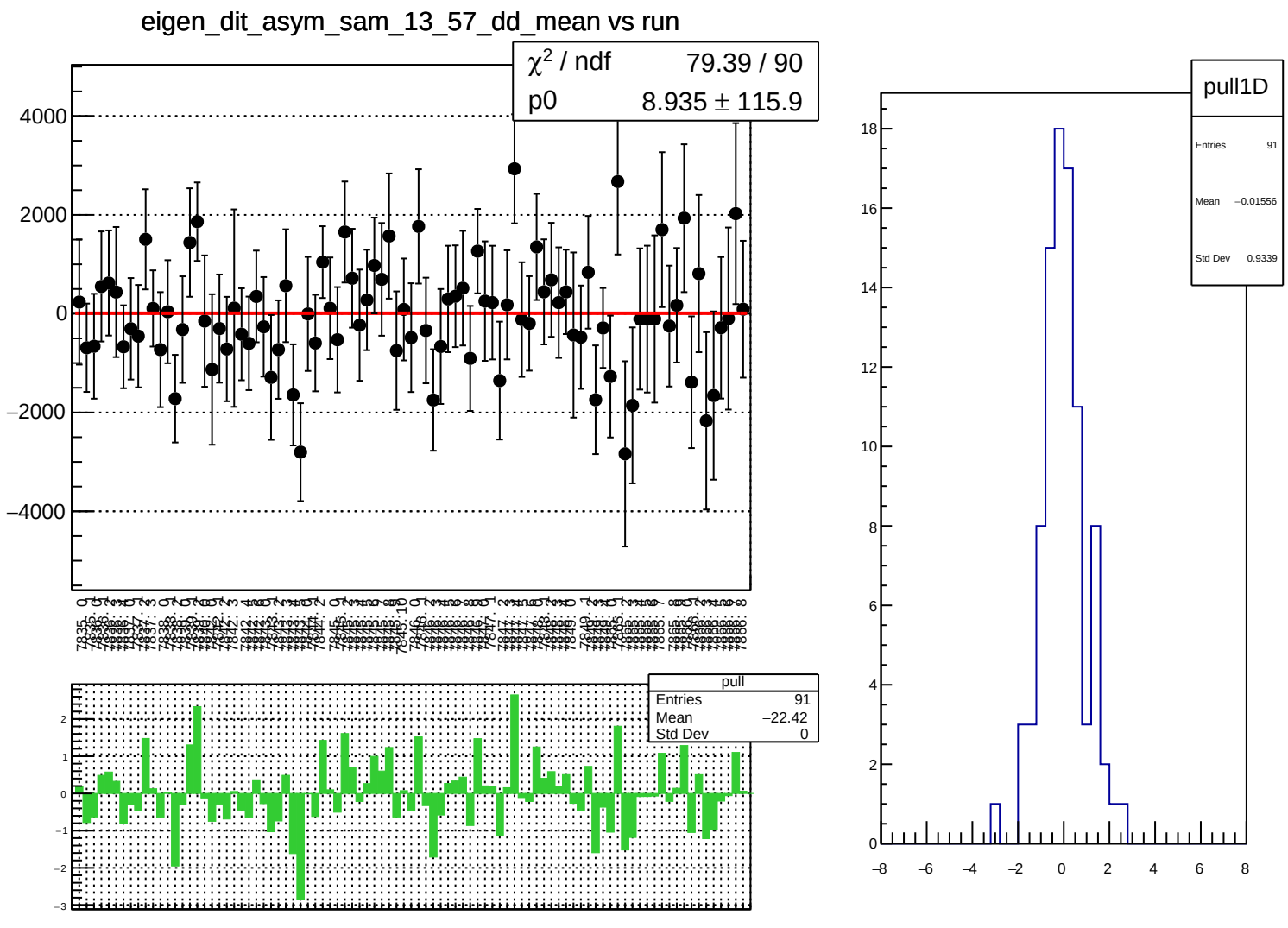

pull1D
Entries 91
Mean −0.01556
Std Dev 0.9339
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

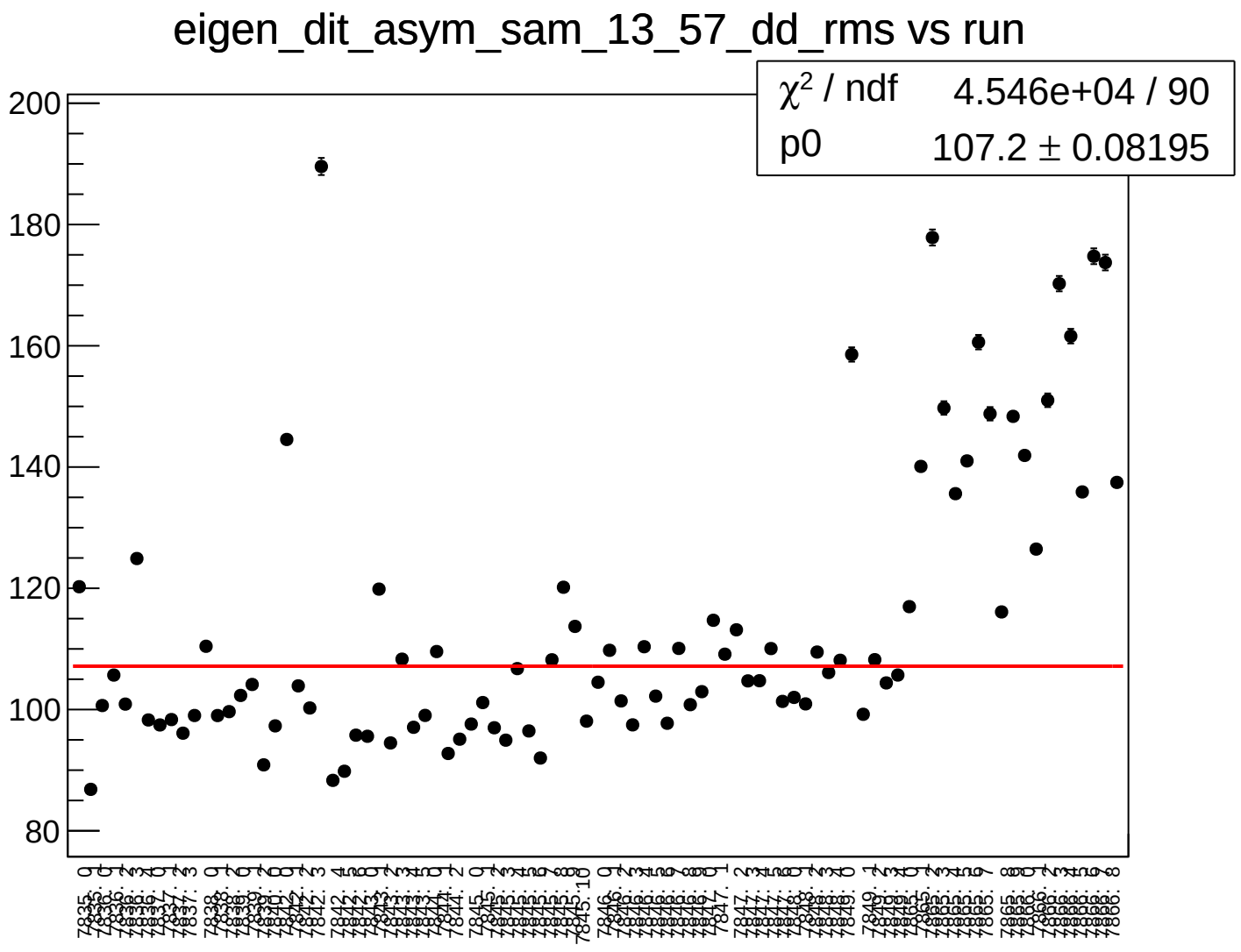

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.546e+04 / 90
p0 107.2 ± 0.08195
200
180
160
140
120
100
80

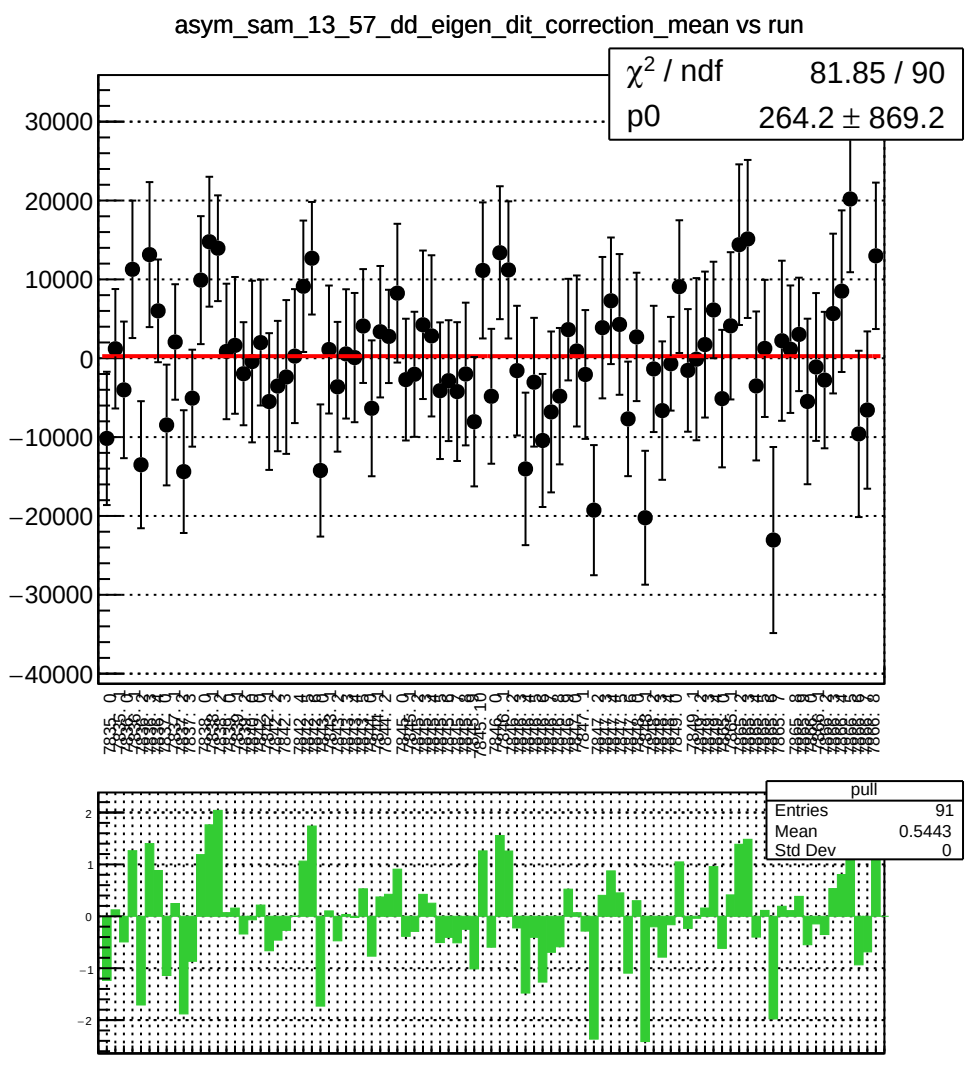

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 81.85 / 90
p0 264.2 ± 869.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 0.5448
Std Dev 0
2
1
0
−1
−2

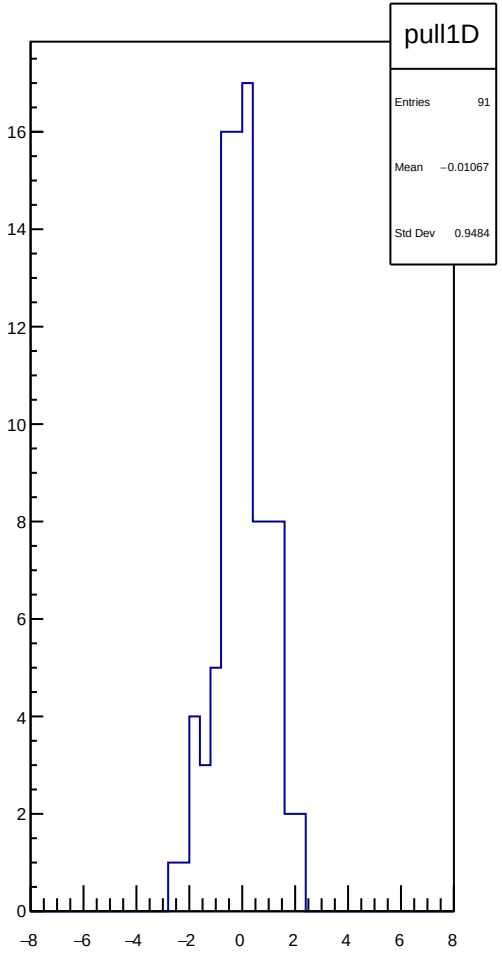

pull1D
Entries 91
Mean −0.01067
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

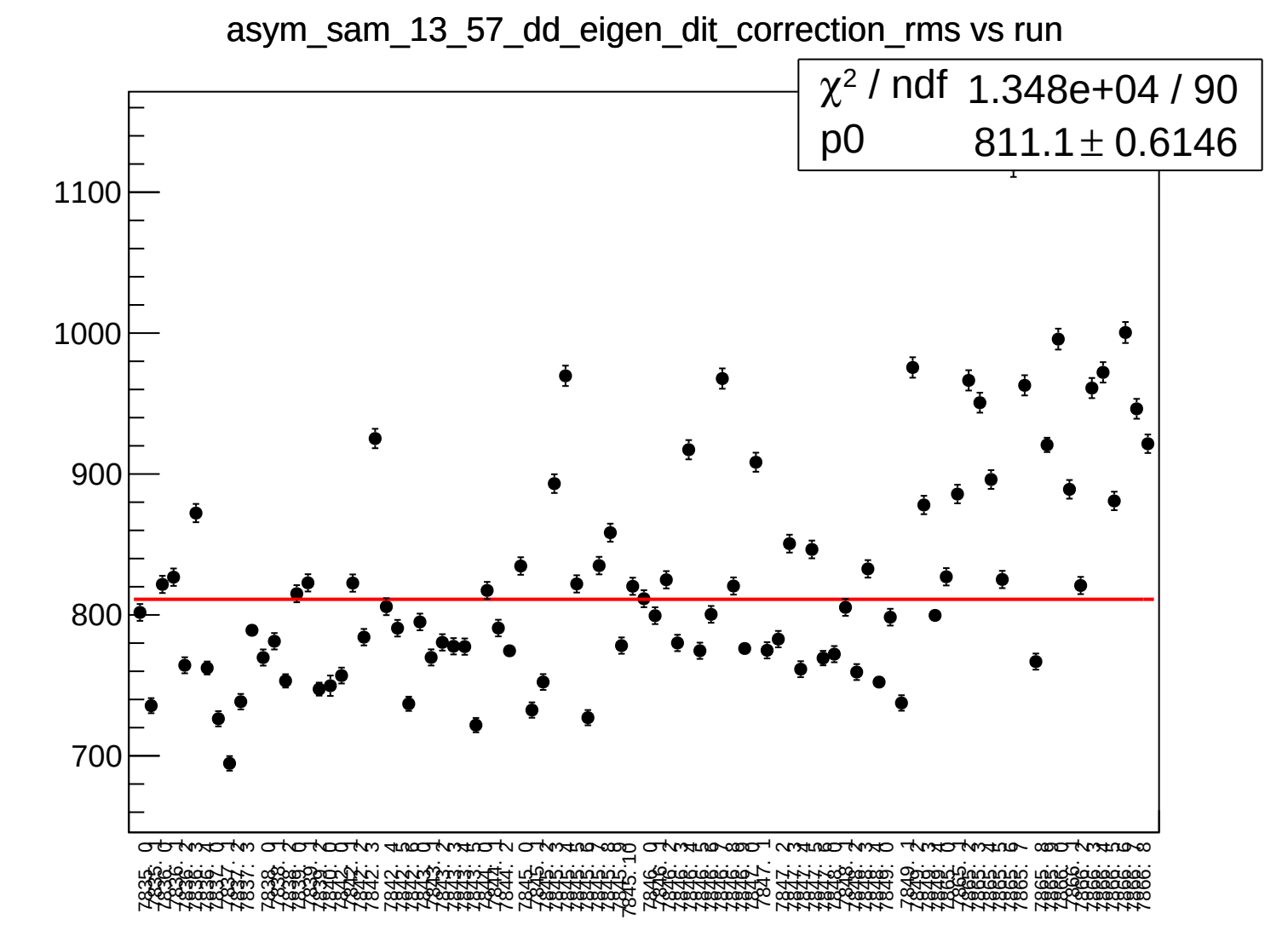

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.347e+04 / 90
p0 811.1 ± 0.6146
1100
1000
900
800
700

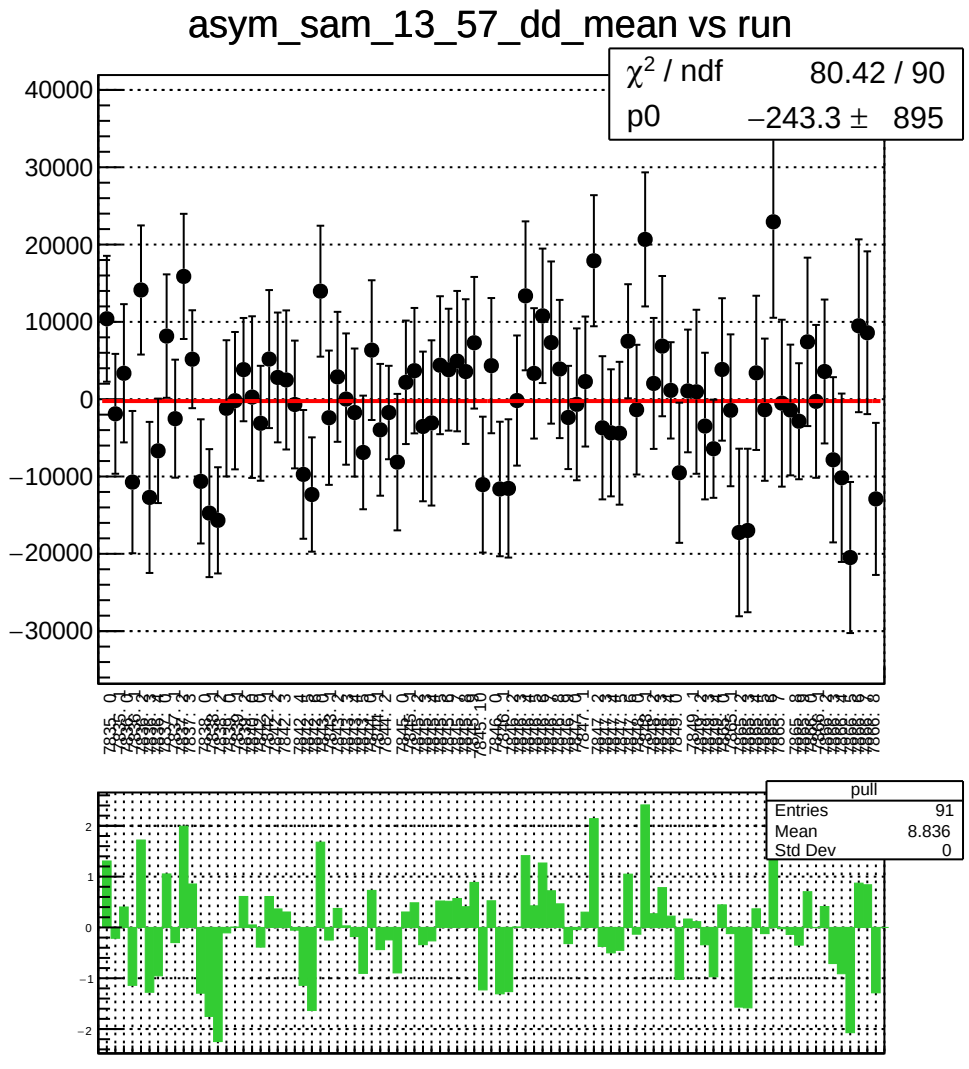

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 79.39 / 90
p0 8.935 ± 115.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −22.42
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01556
Std Dev 0.9339
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

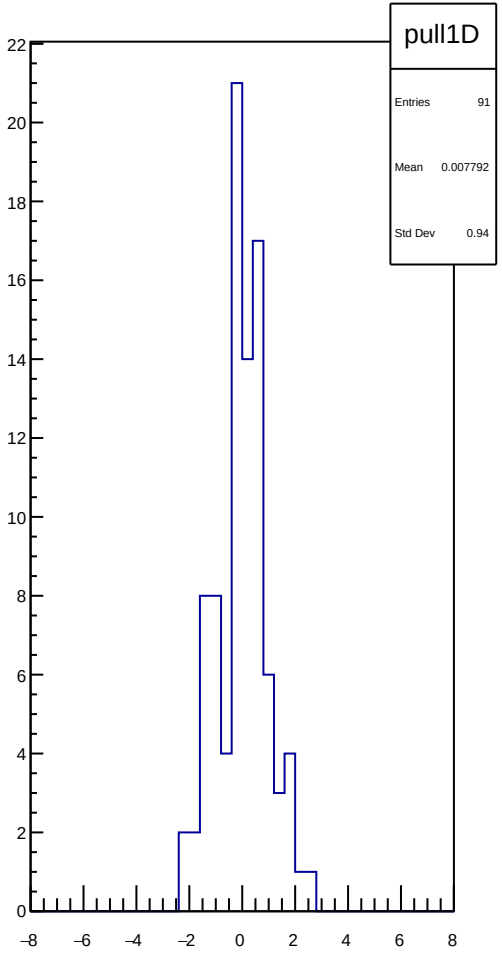

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.546e+04 / 90
p0 107.2 ± 0.08195
200
180
160
140
120
100
80

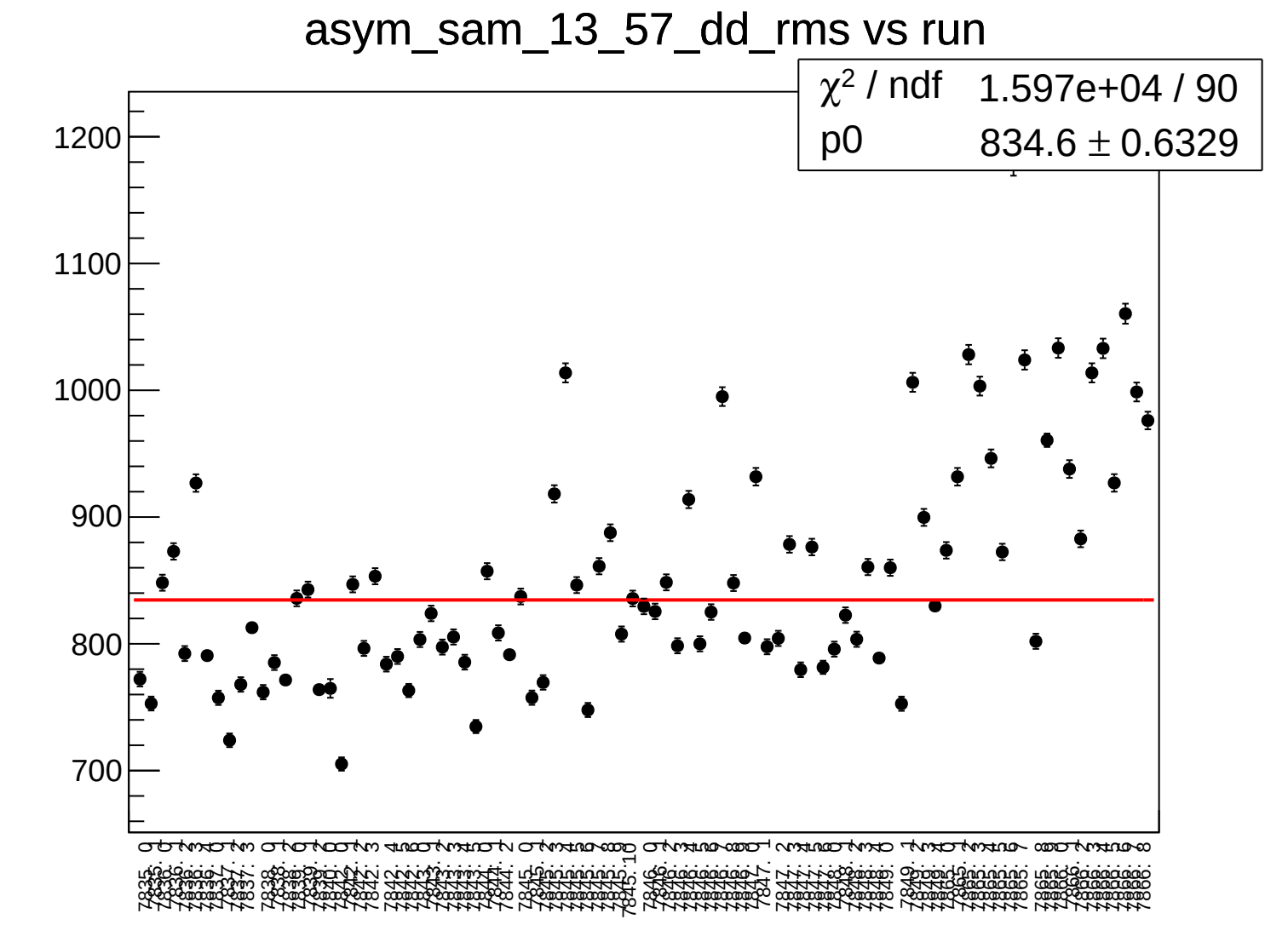

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.85 / 90
p0 264.2 ± 869.2
pull
Entries 91
Mean 0.5443
Std Dev 0

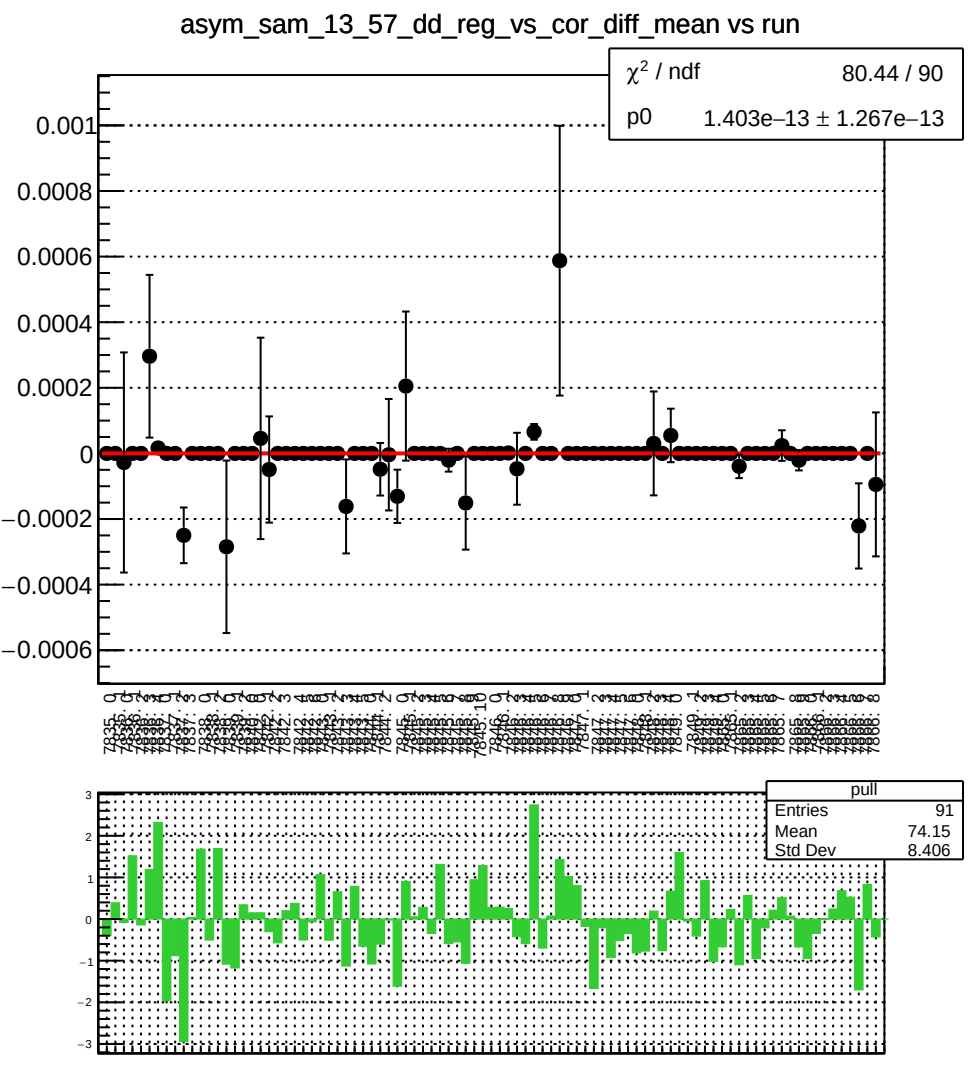

pull1D
Entries 91
Mean −0.01067
Std Dev 0.9484

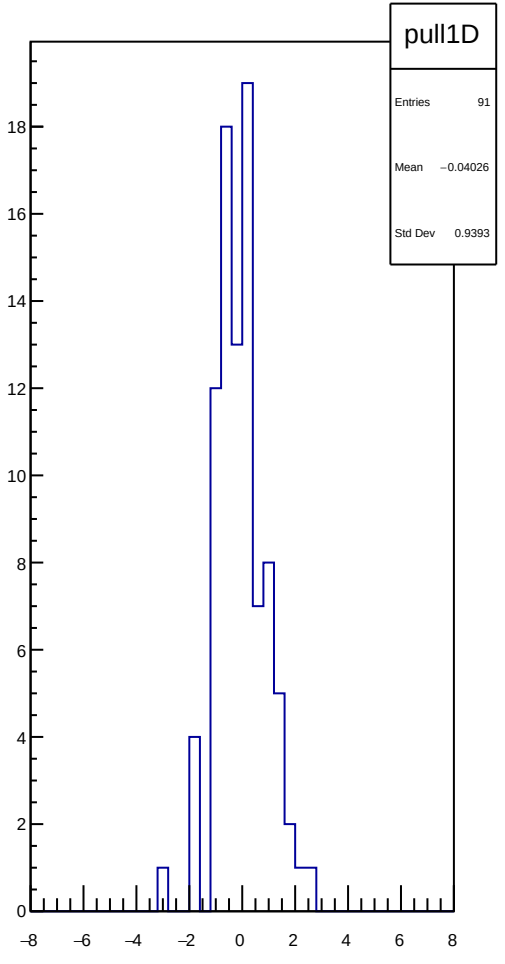

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.348e+04 / 90
p0 811.1 ± 0.6146
1100
1000
900
800
700

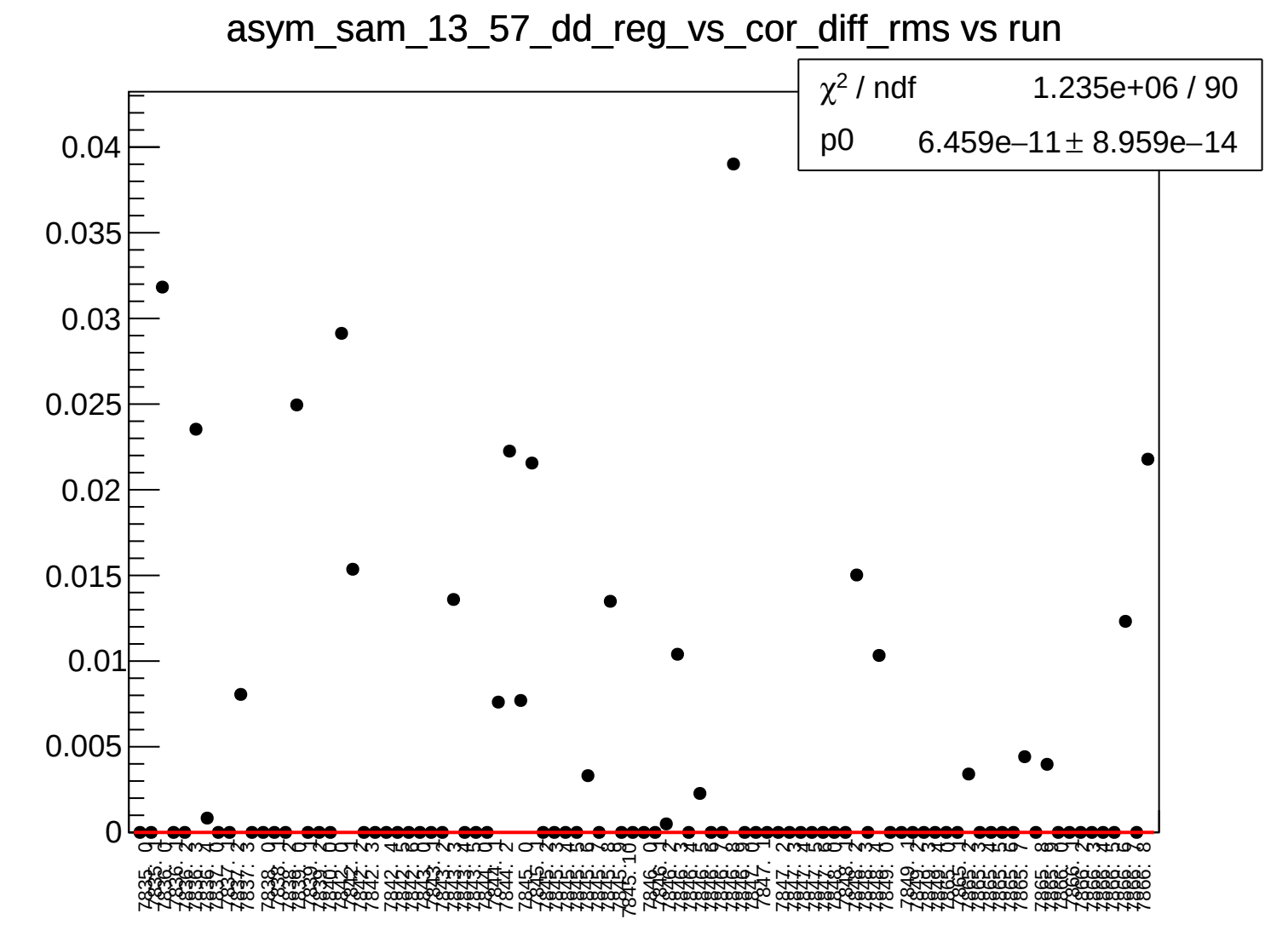

asym_sam_13_57_dd_mean vs run
χ² / ndf 80.42 / 90
p0 −243.3 ± 895
pull
Entries 91
Mean 8.836
Std Dev 0

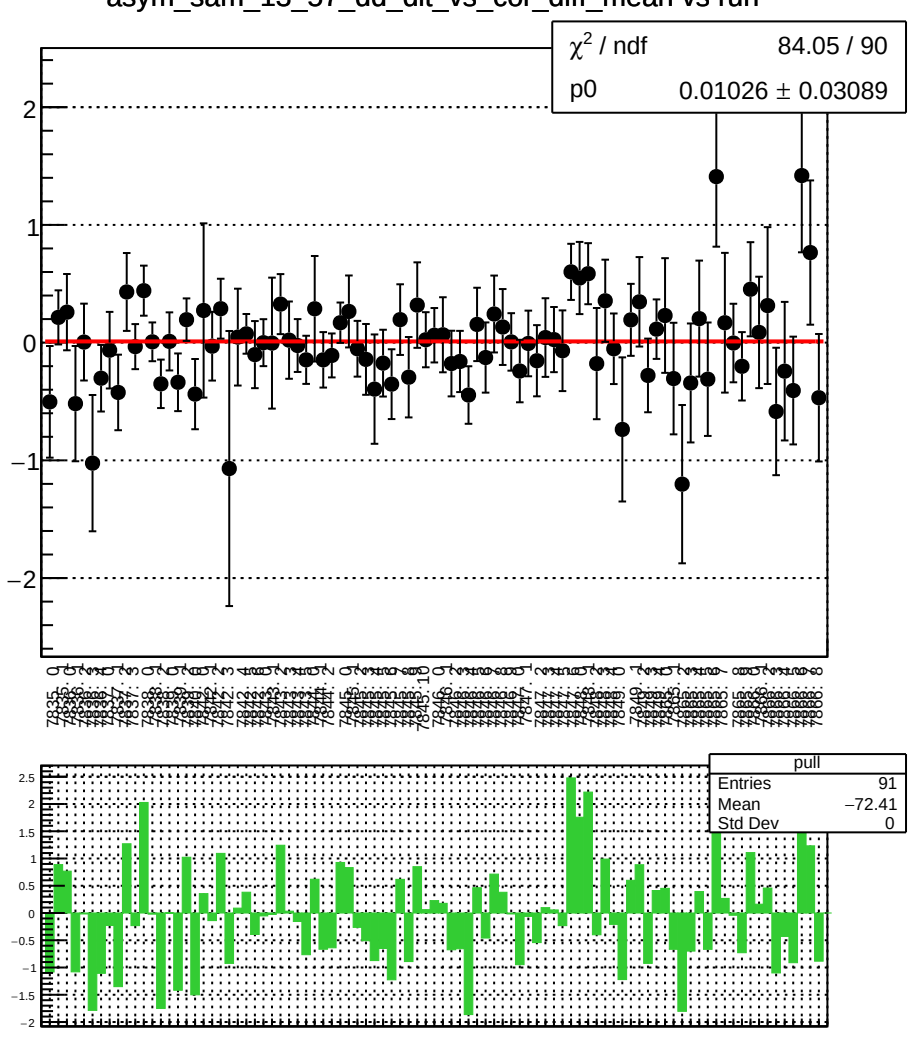

pull1D
Entries 91
Mean 0.007792
Std Dev 0.94

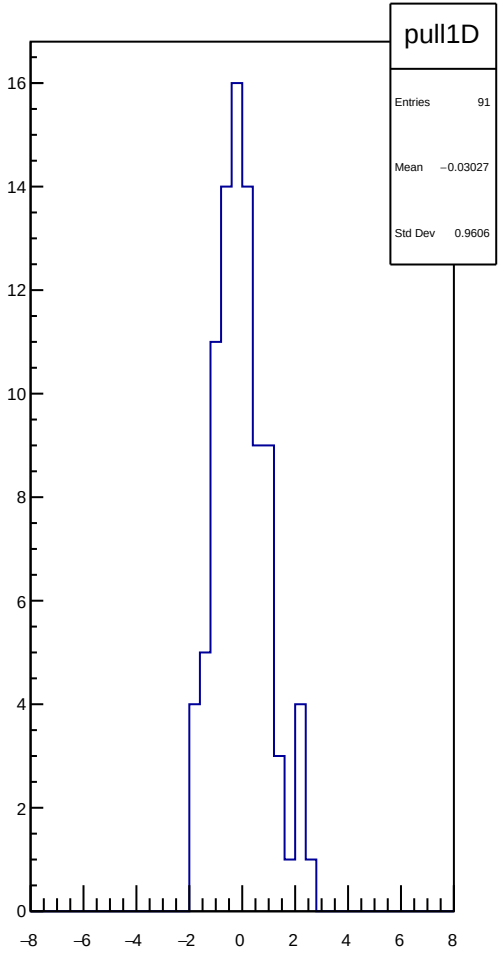

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.597e+04 / 90
p0 834.6 ± 0.6329
1200
1100
1000
900
800
700

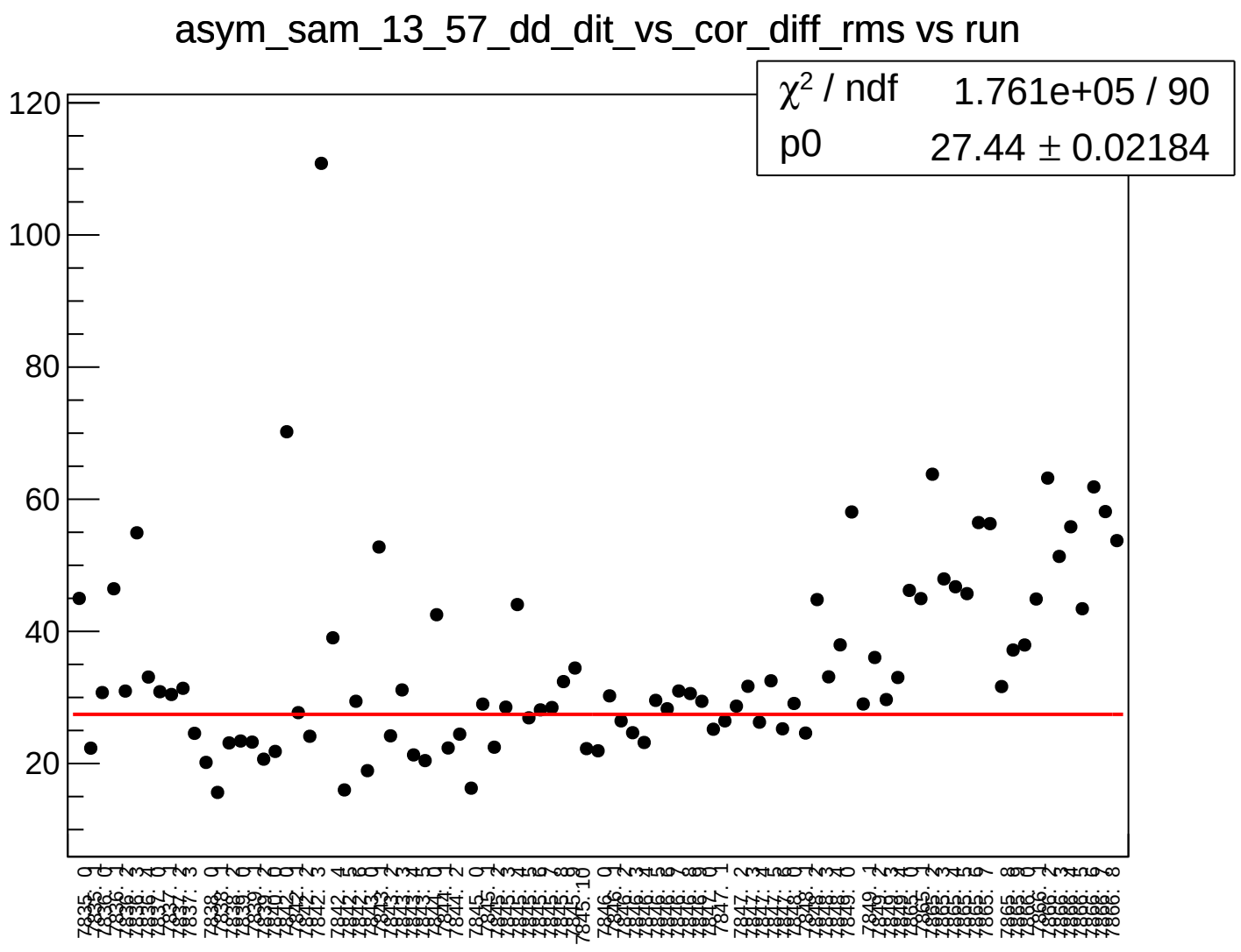

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.44 / 90
p0 1.403e−13 ± 1.267e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 91
Mean 74.15
Std Dev 8.406
3
2
1
0
−1
−2
−3

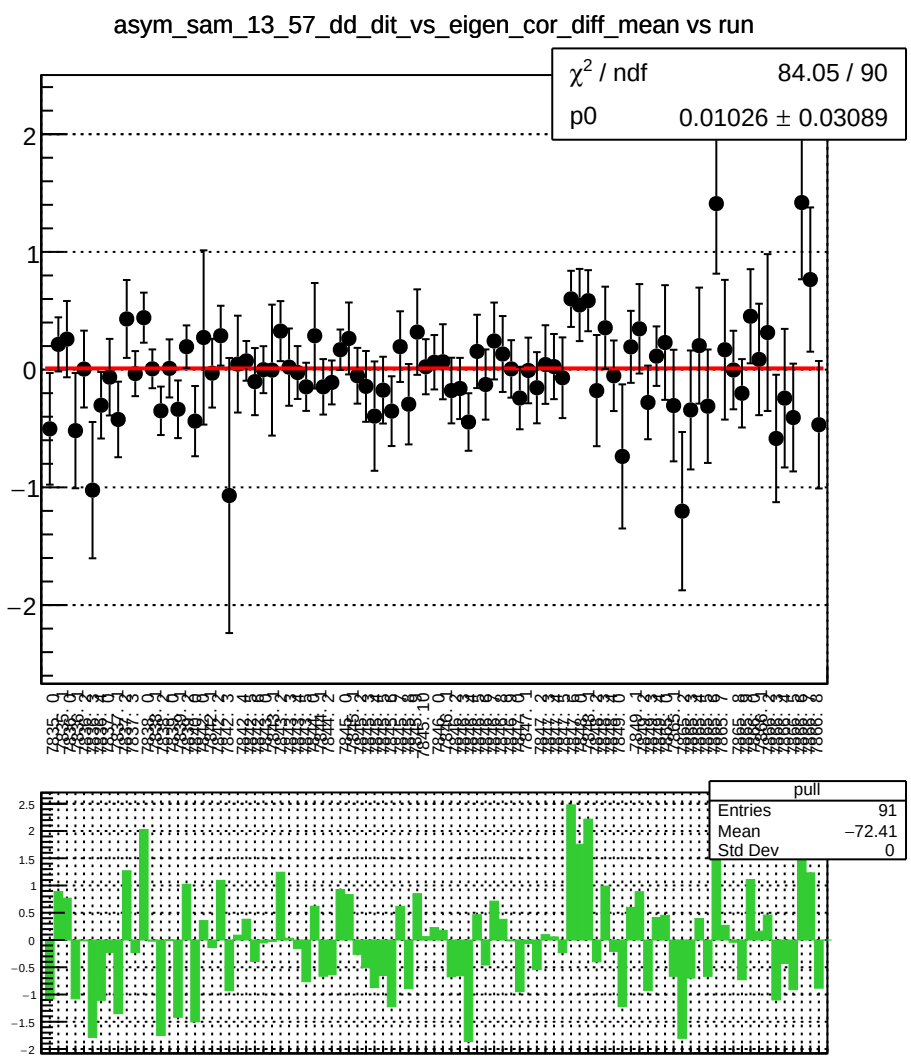

pull1D
Entries 91
Mean −0.04026
Std Dev 0.9393
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

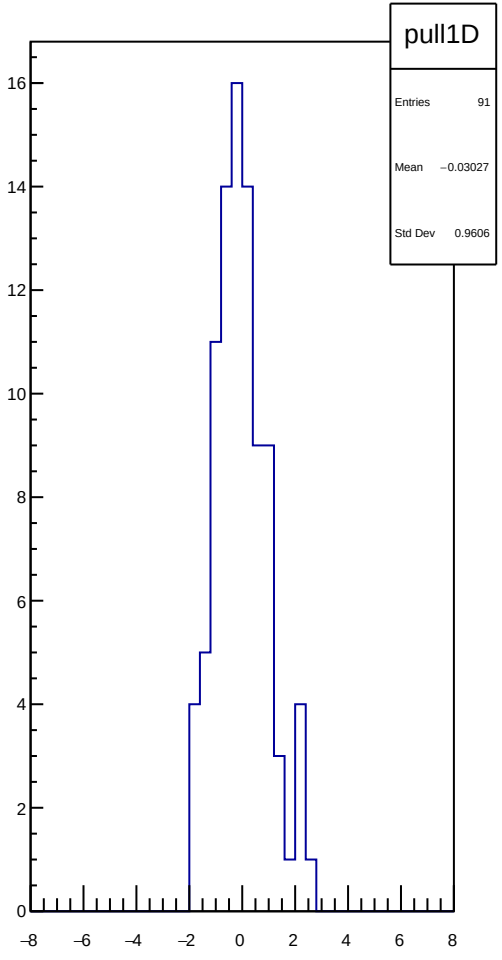

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.235e+06 / 90
p0 6.459e−11 ± 8.959e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

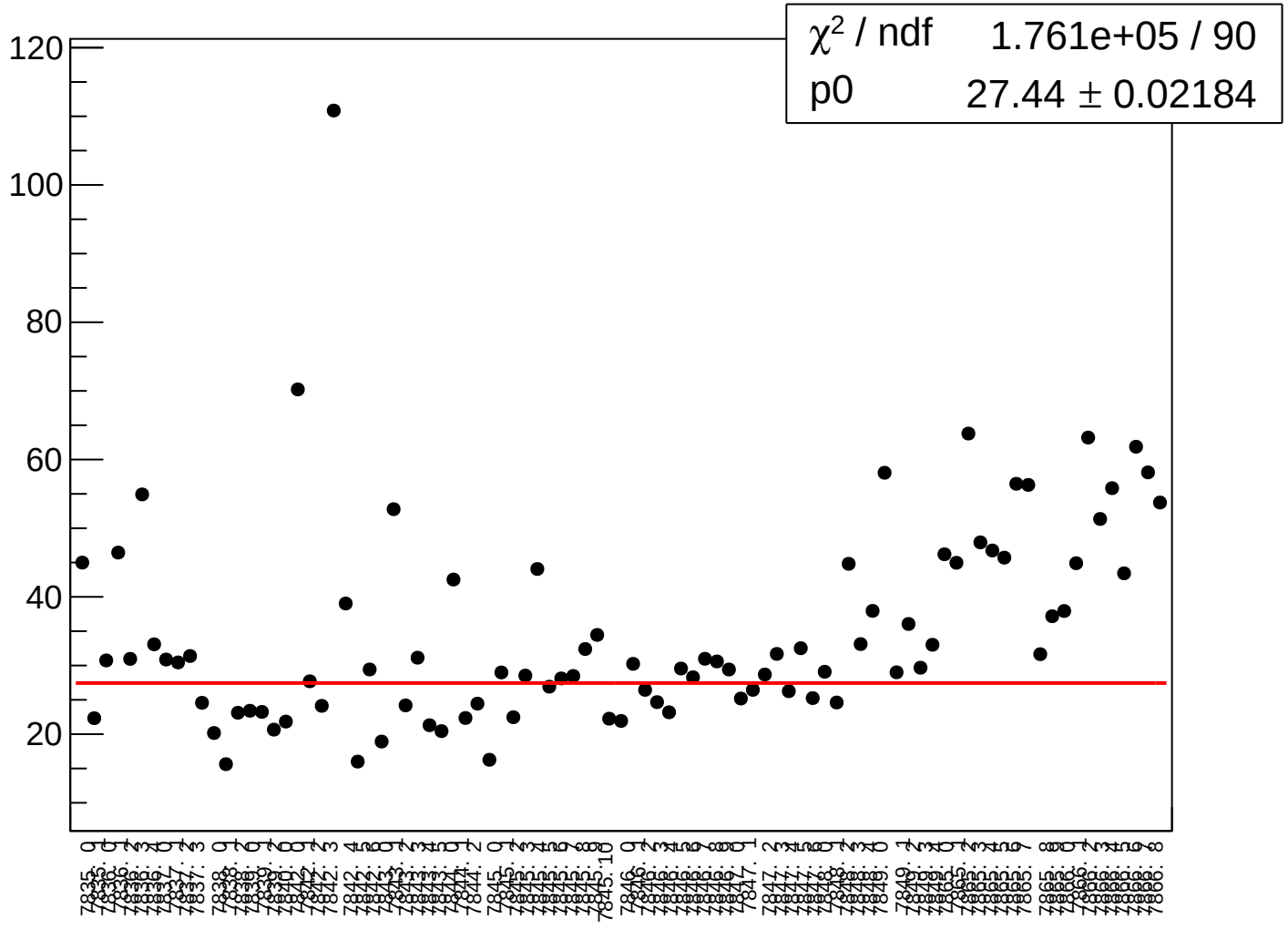

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.05 / 90
p0 0.01026 ± 0.03089
pull
Entries 91
Mean −72.41
Std Dev 0

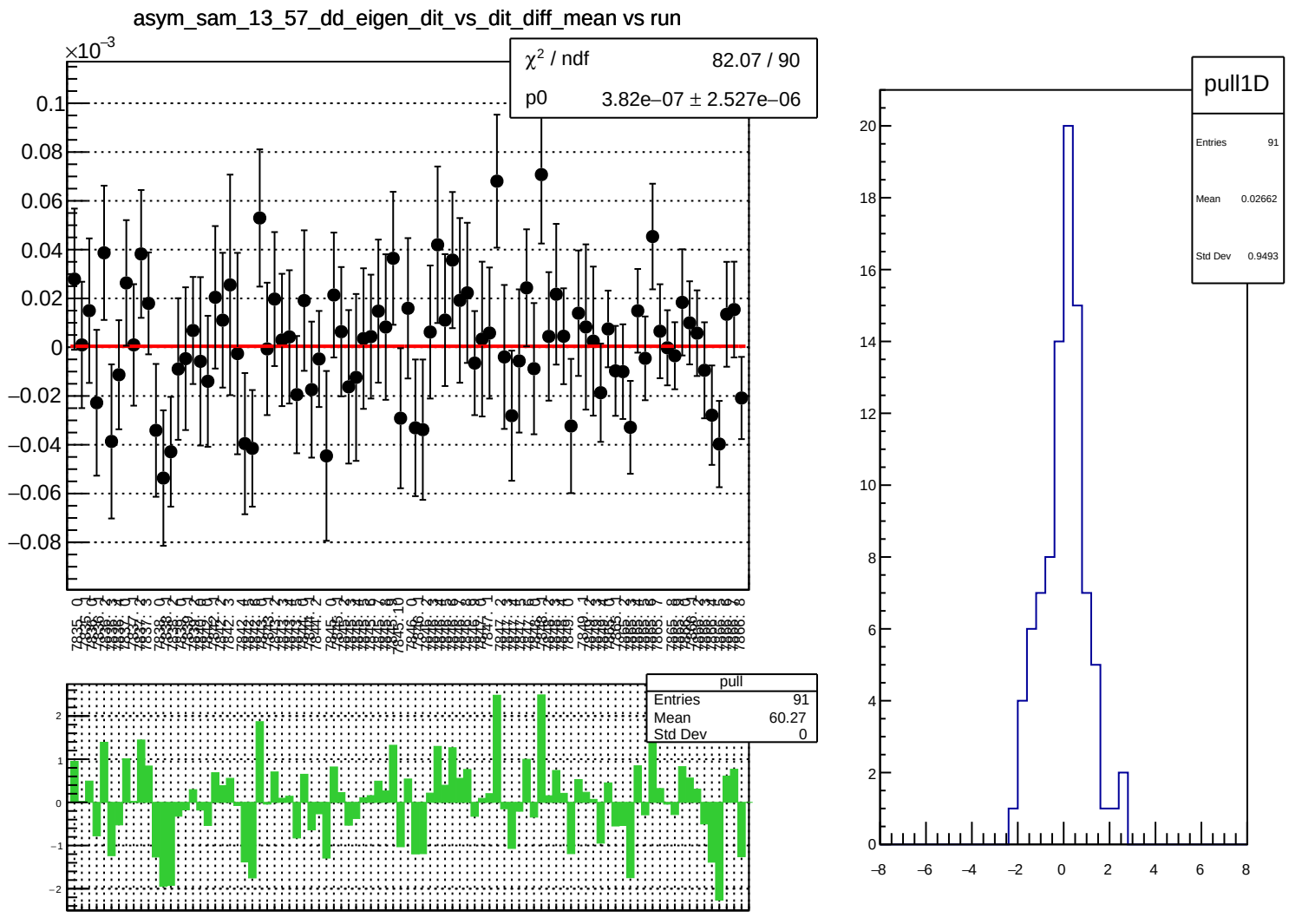

pull1D
Entries 91
Mean −0.03027
Std Dev 0.9606

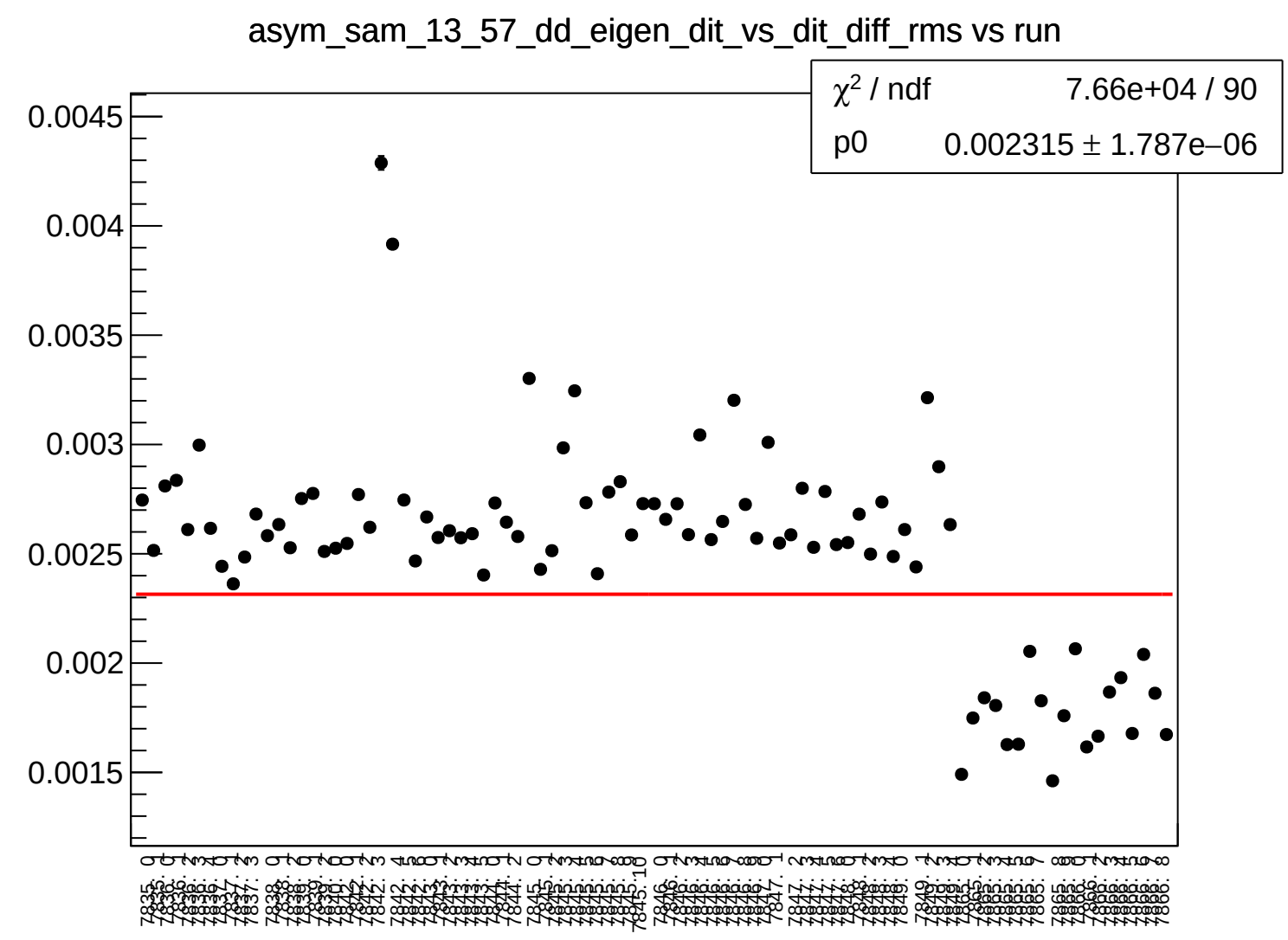

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.761e+05 / 90
p0 27.44 ± 0.02184
120
100
80
60
40
20

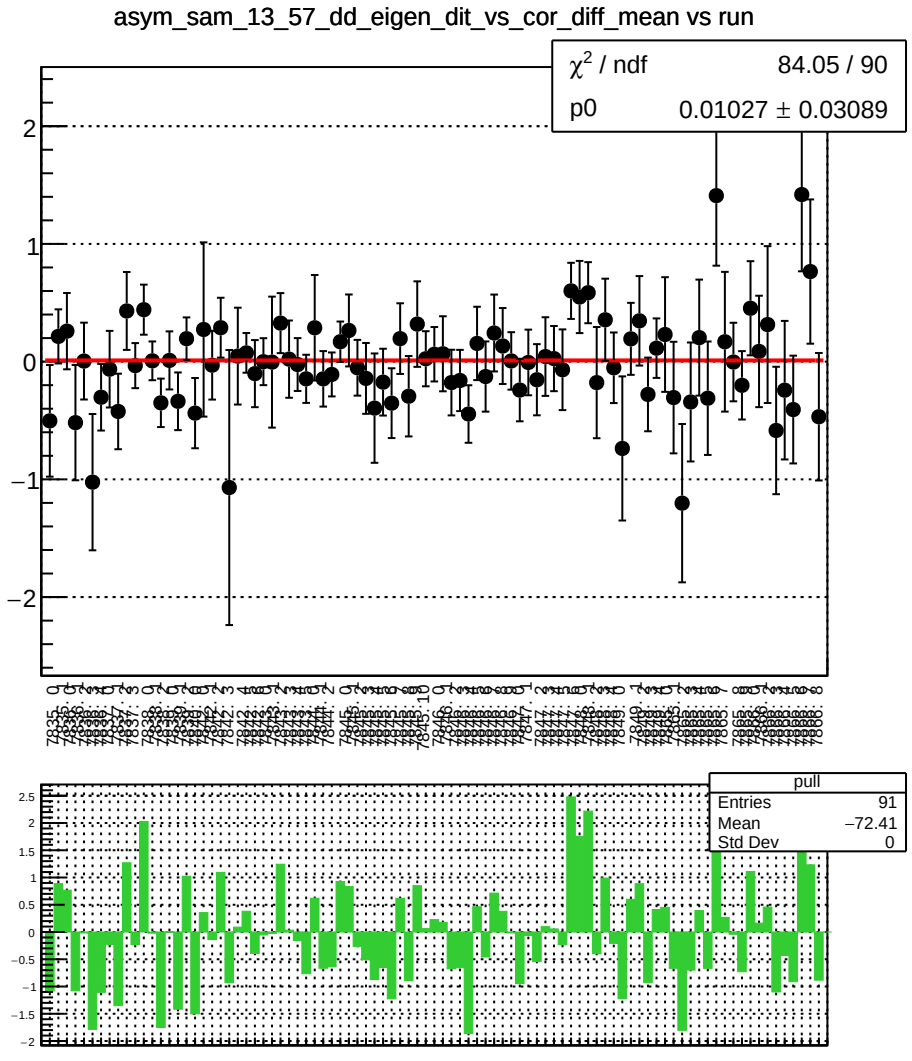

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.05 / 90
p0 0.01026 ± 0.03089
pull
Entries 91
Mean −72.41
Std Dev 0

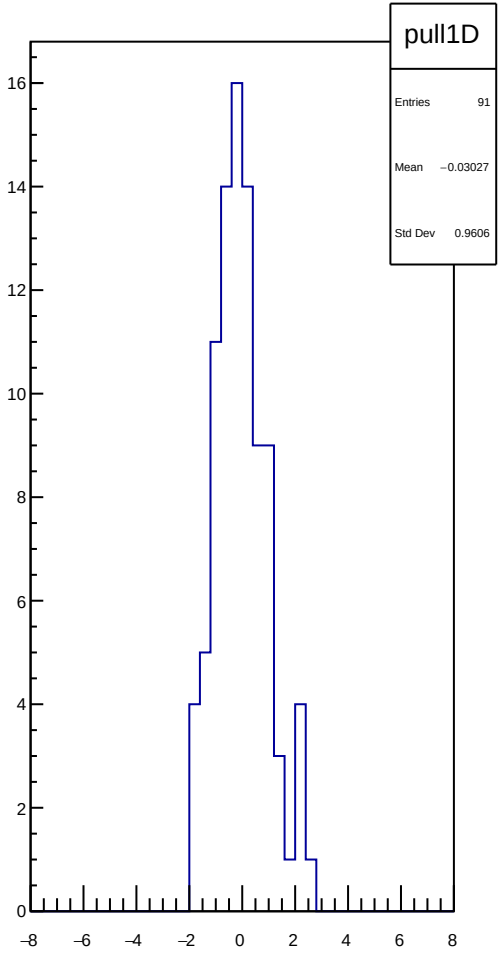

pull1D
Entries 91
Mean −0.03027
Std Dev 0.9606

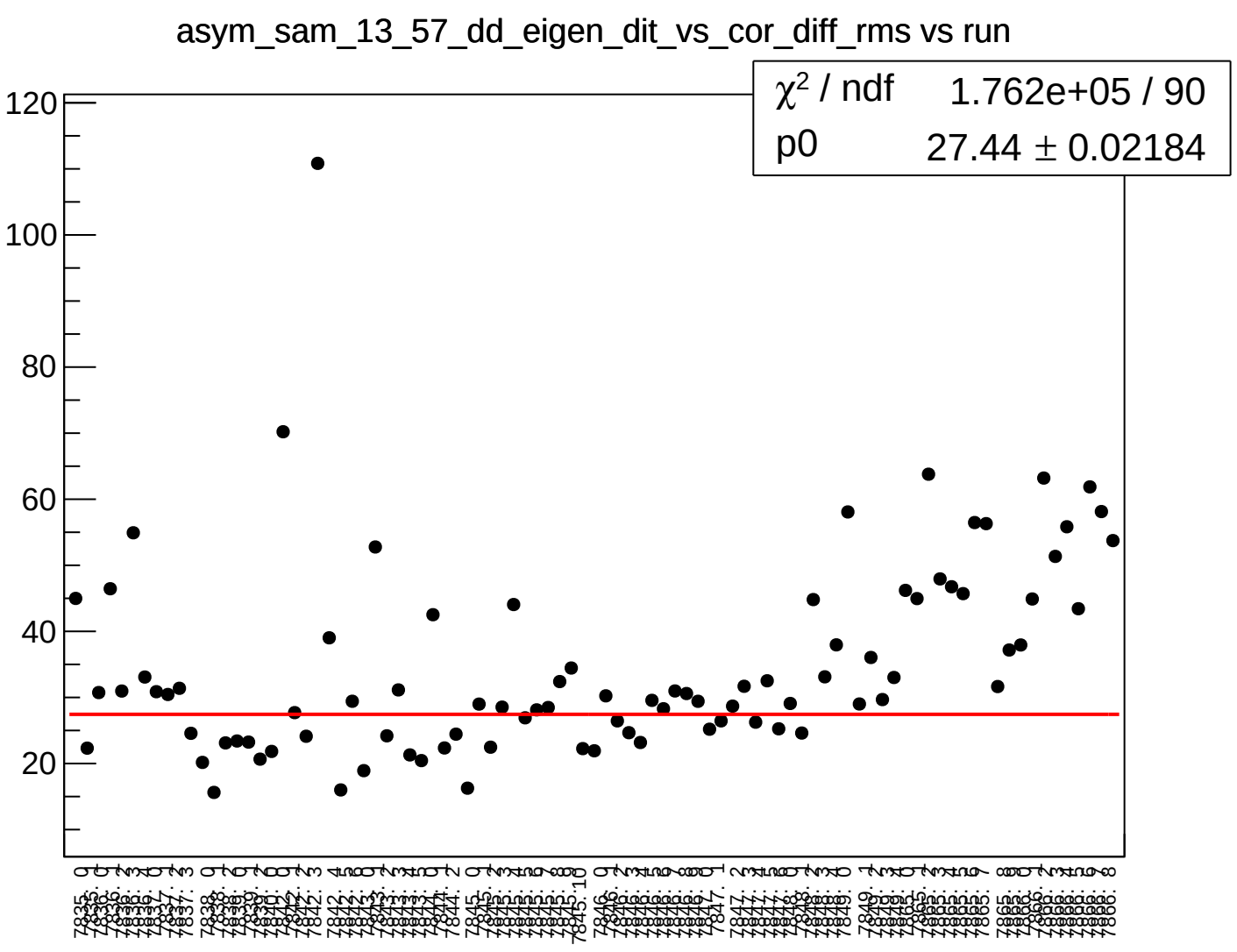

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.761e+05 / 90
p0 27.44 ± 0.02184
120
100
80
60
40
20

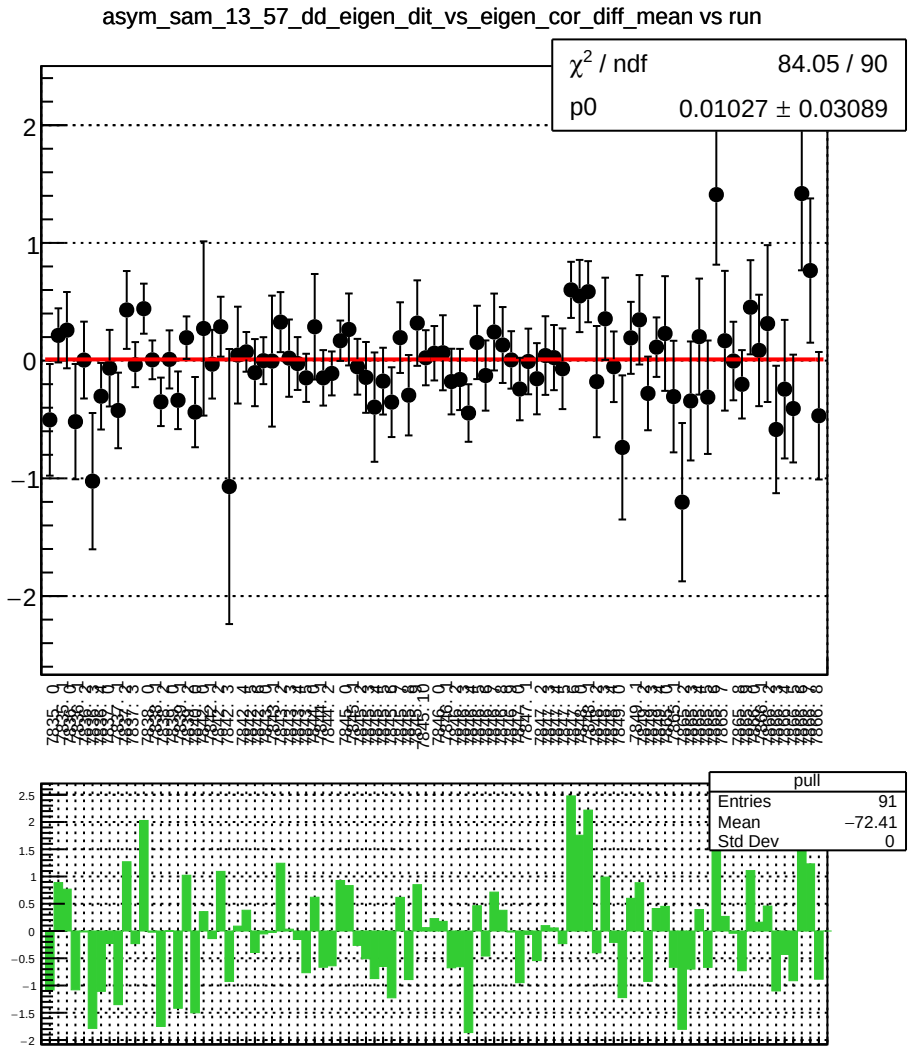

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.07 / 90
p0 3.82e−07 ± 2.527e−06
pull
Entries 91
Mean 60.27
Std Dev 0
pull1D
Entries 91
Mean 0.02662
Std Dev 0.9493

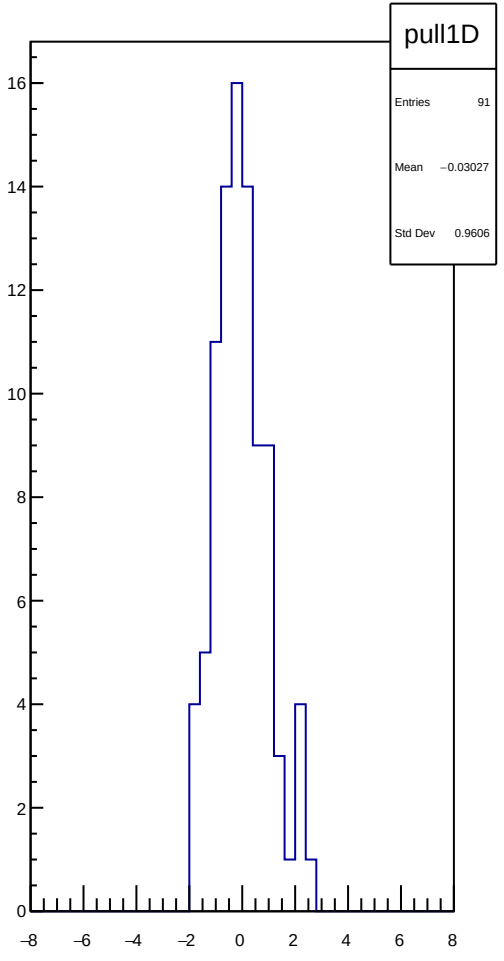

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.66e+04 / 90
p0 0.002315 ± 1.787e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

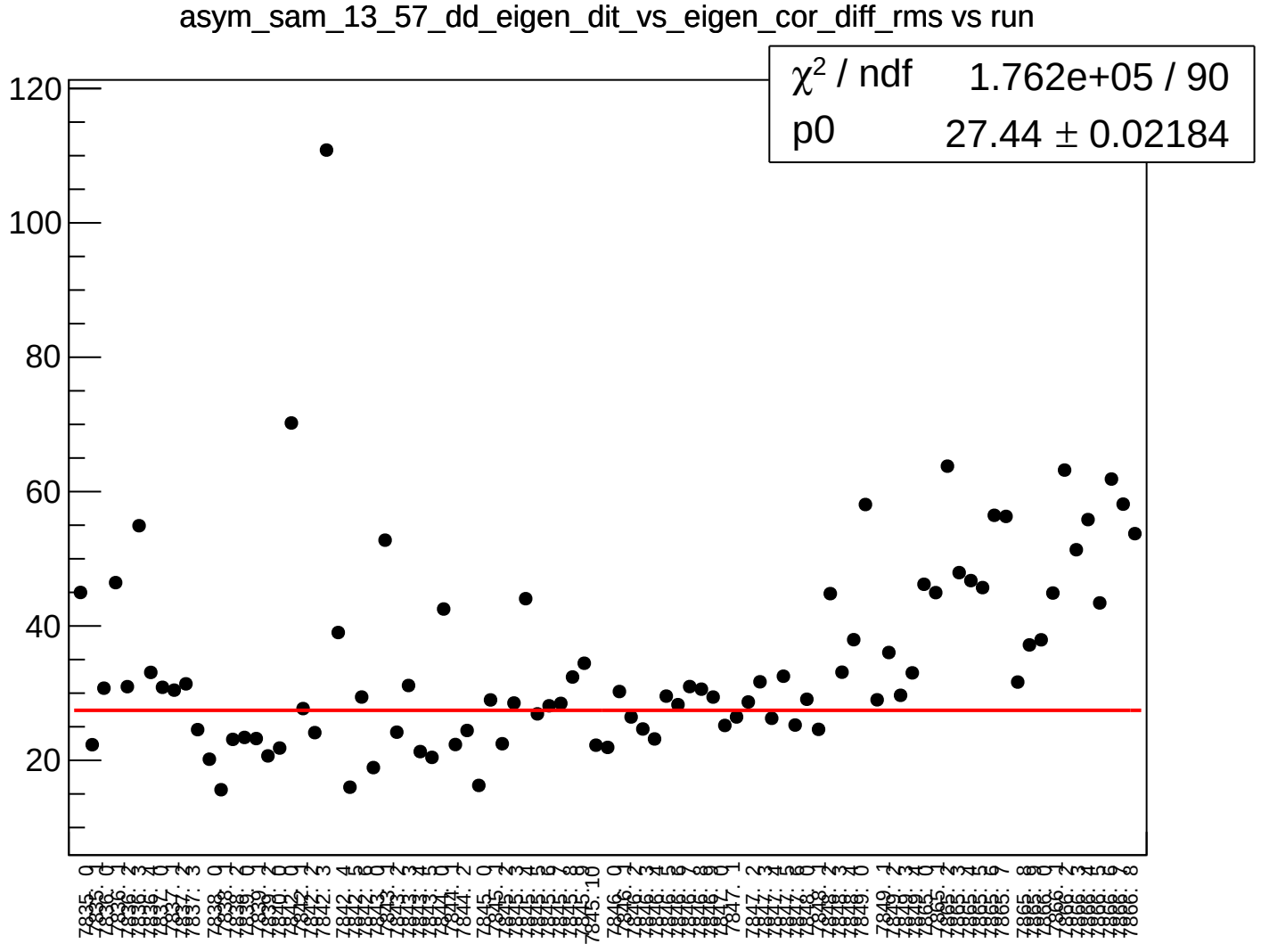

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.05 / 90
p0 0.01027 ± 0.03089
pull
Entries 91
Mean −72.41
Std Dev 0

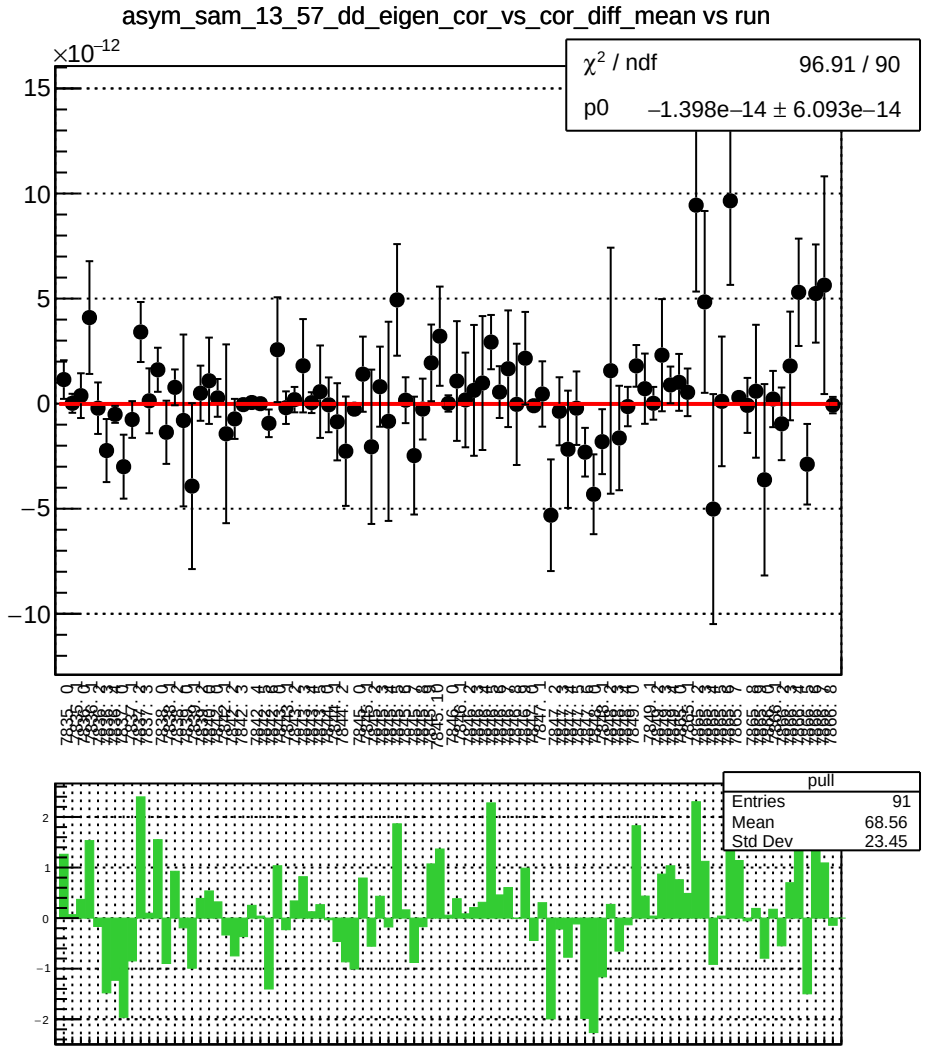

pull1D
Entries 91
Mean −0.03027
Std Dev 0.9606

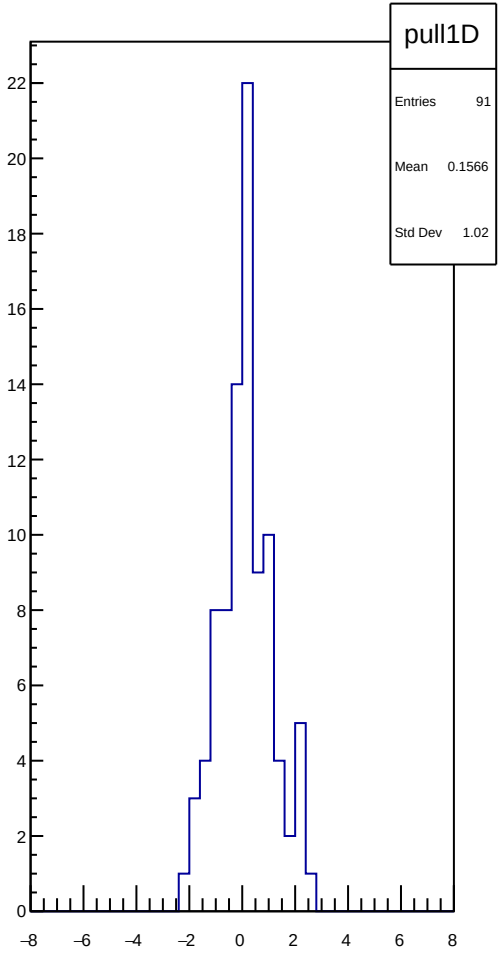

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.762e+05 / 90
p0 27.44 ± 0.02184
120
100
80
60
40
20

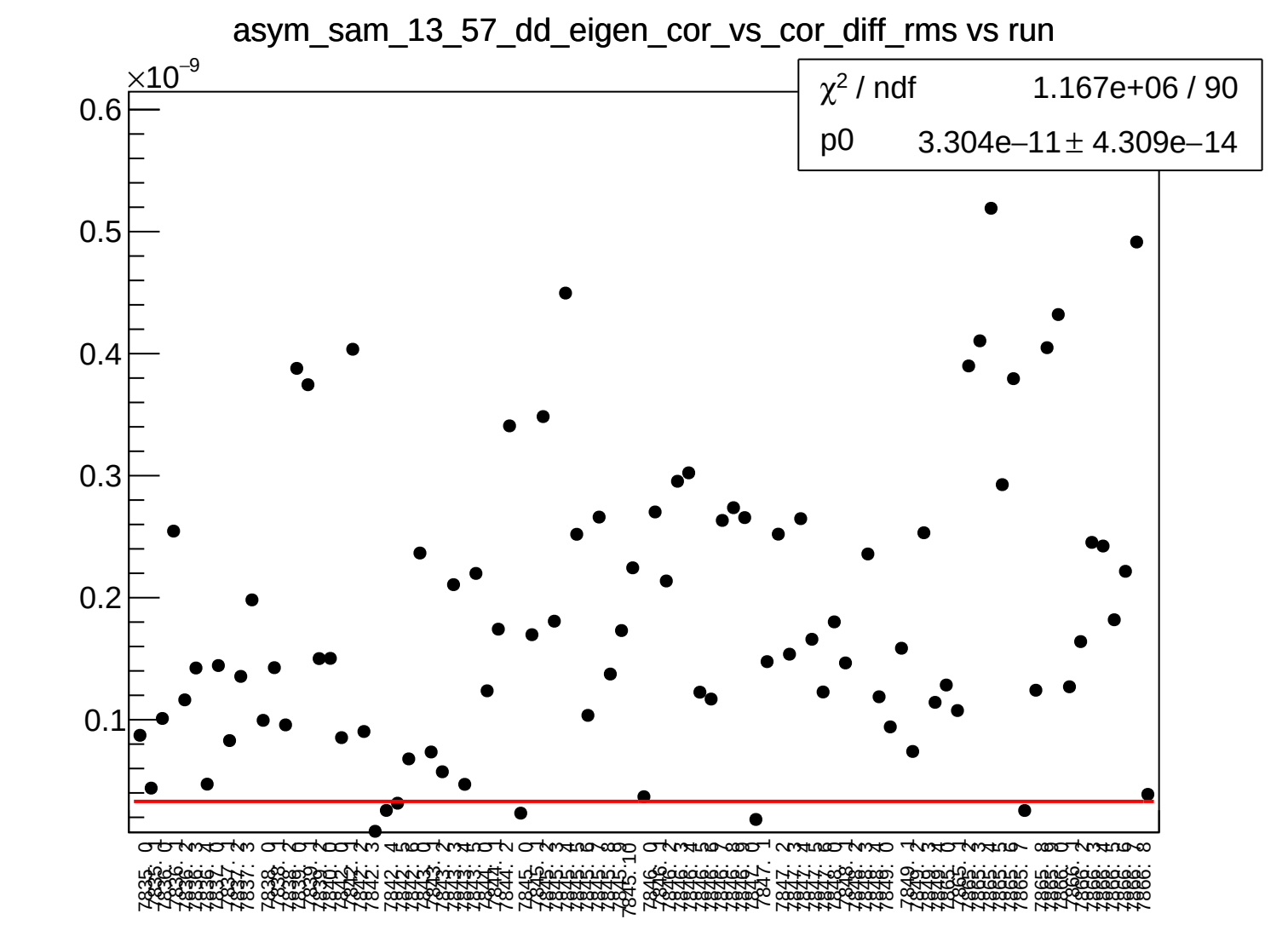

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.05 / 90
p0 0.01027 ± 0.03089
pull
Entries 91
Mean −72.41
Std Dev 0

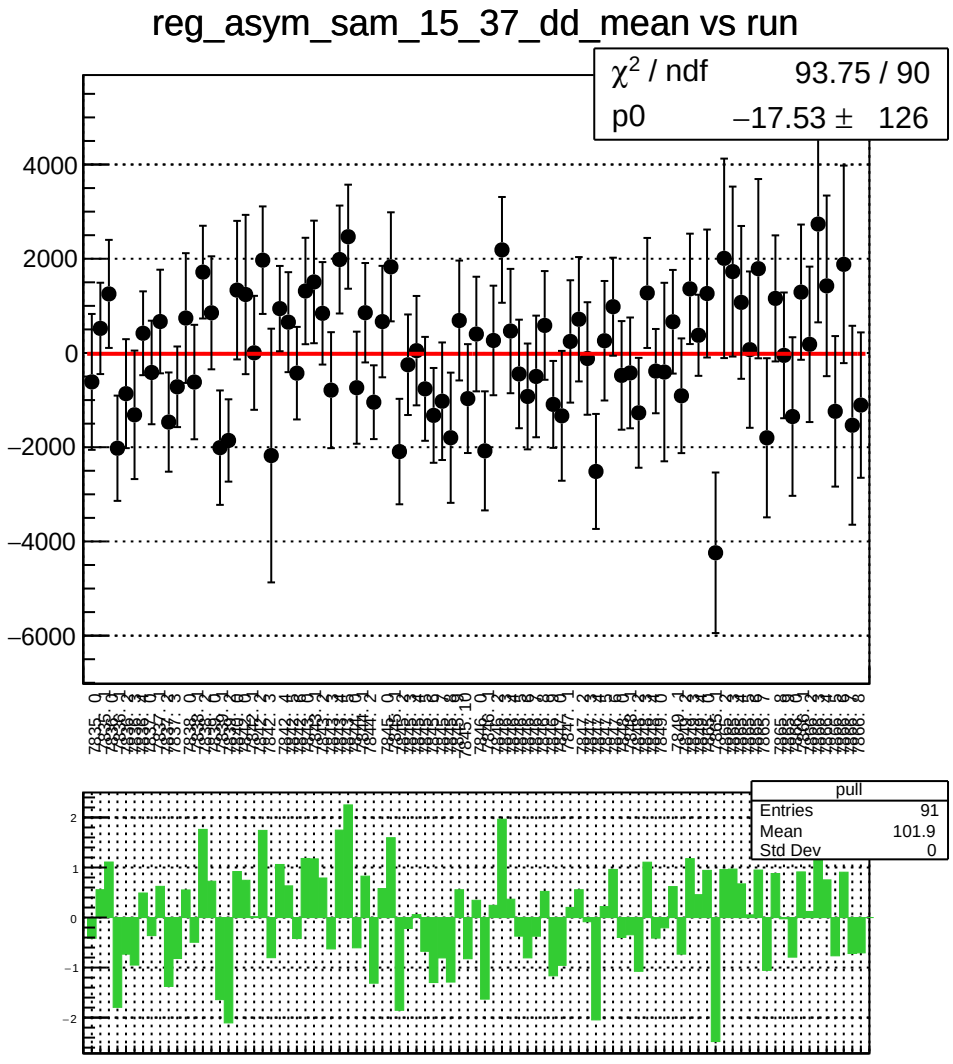

pull1D
Entries 91
Mean −0.03027
Std Dev 0.9606

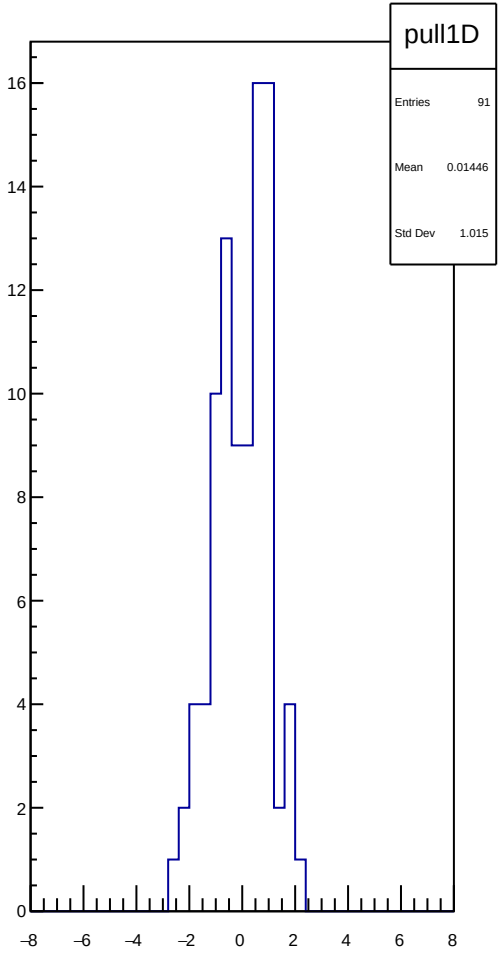

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.762e+05 / 90
p0 27.44 ± 0.02184
120
100
80
60
40
20

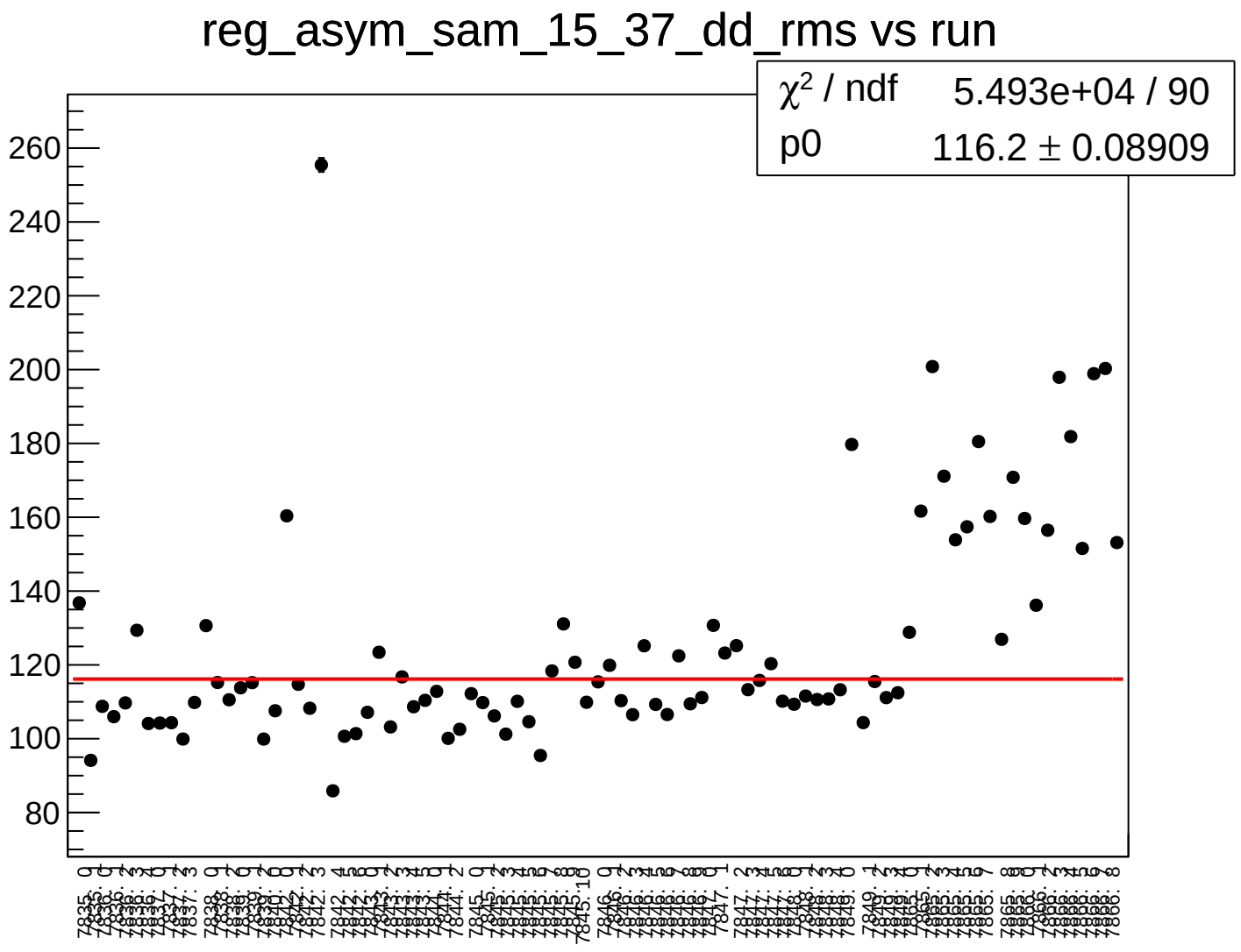

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.91 / 90
p0 −1.398e−14 ± 6.093e−14
pull
Entries 91
Mean 68.56
Std Dev 23.45

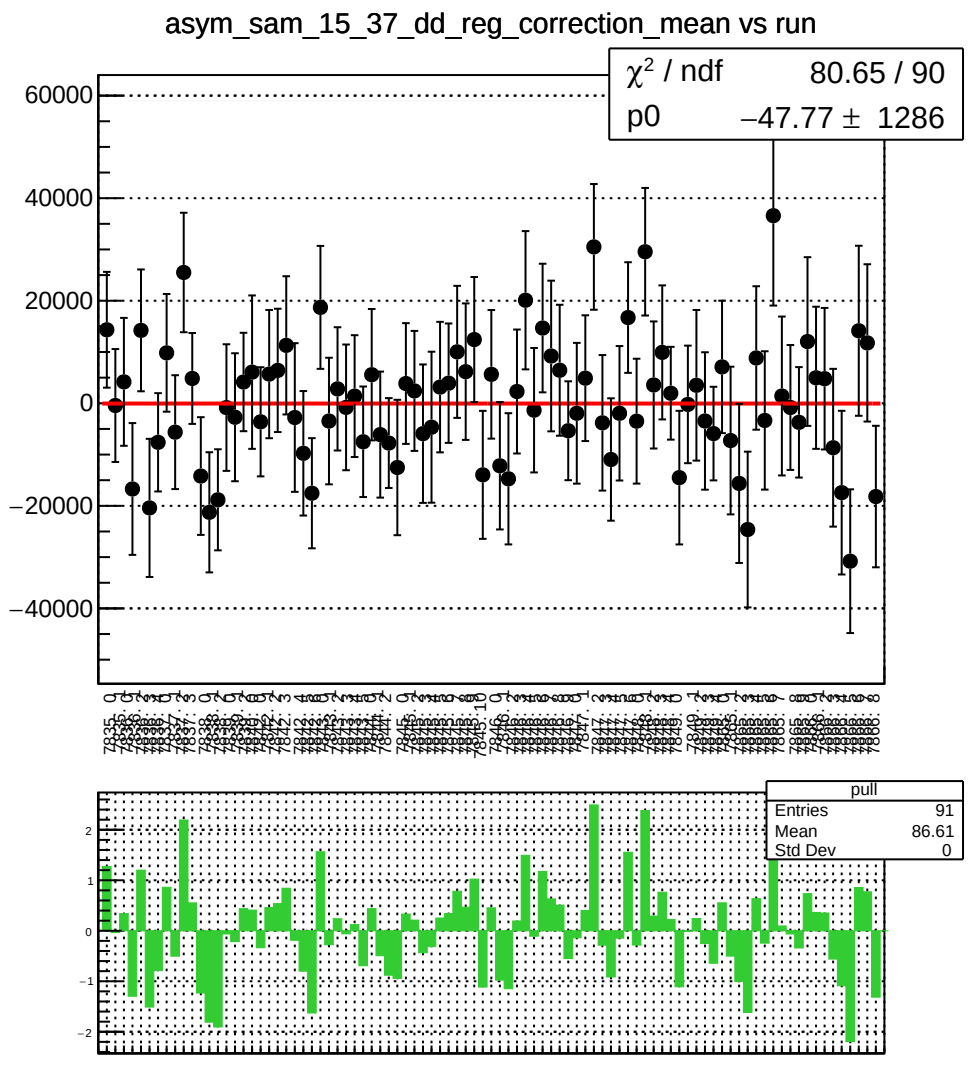

pull1D
Entries 91
Mean 0.1566
Std Dev 1.02

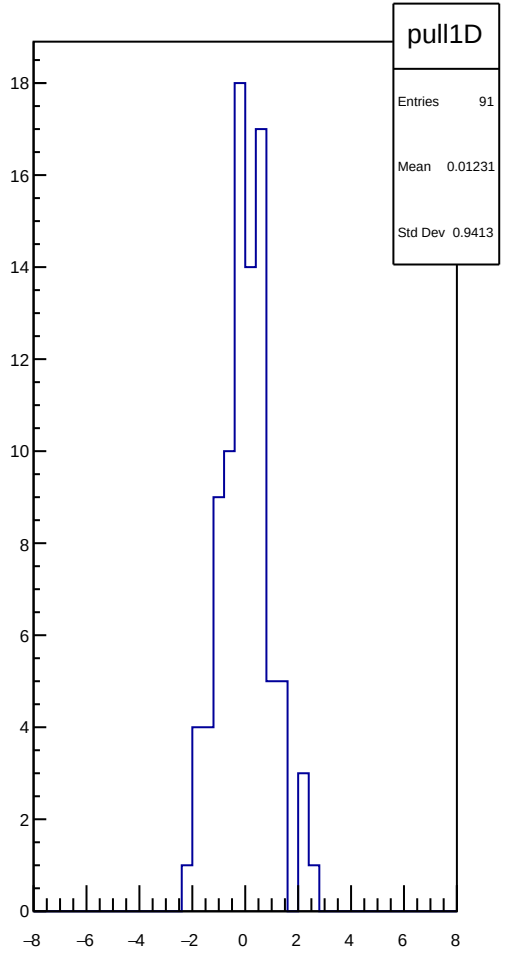

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.167e+06 / 90
p0 3.304e−11 ± 4.309e−14
0.6
0.5
0.4
0.3
0.2
0.1

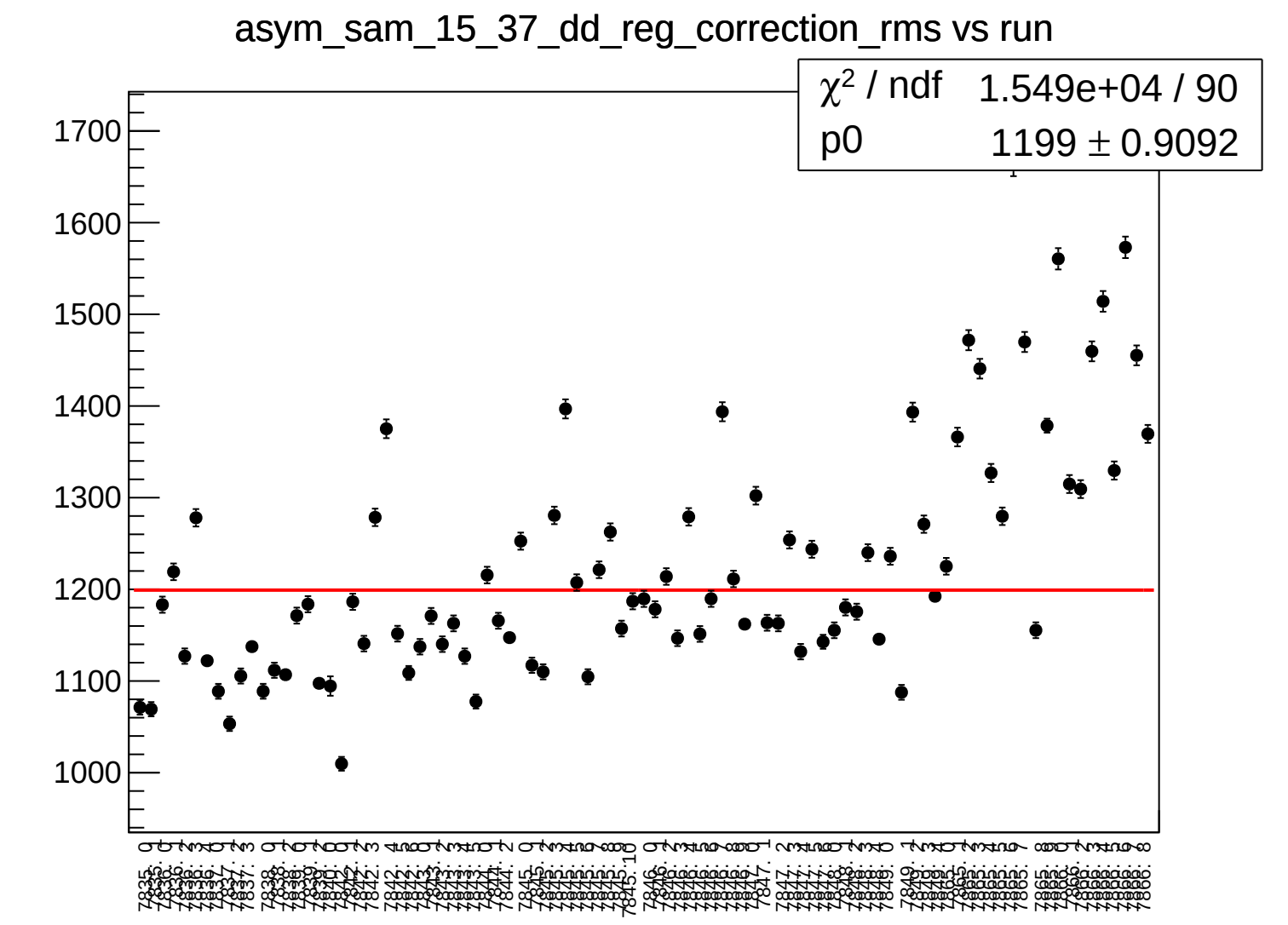

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.75 / 90
p0 −17.53 ± 126
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 101.9
Std Dev 0
2
1
0
−1
−2

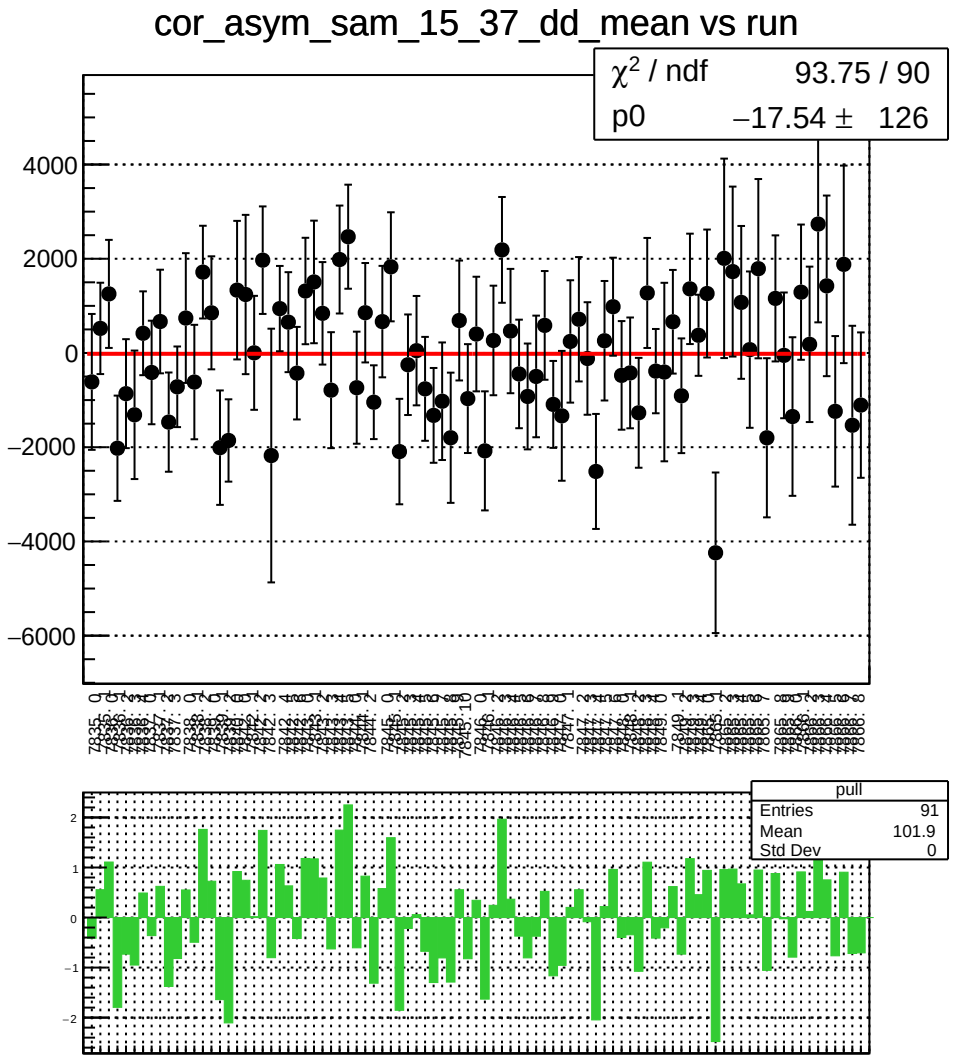

pull1D
Entries 91
Mean 0.01446
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

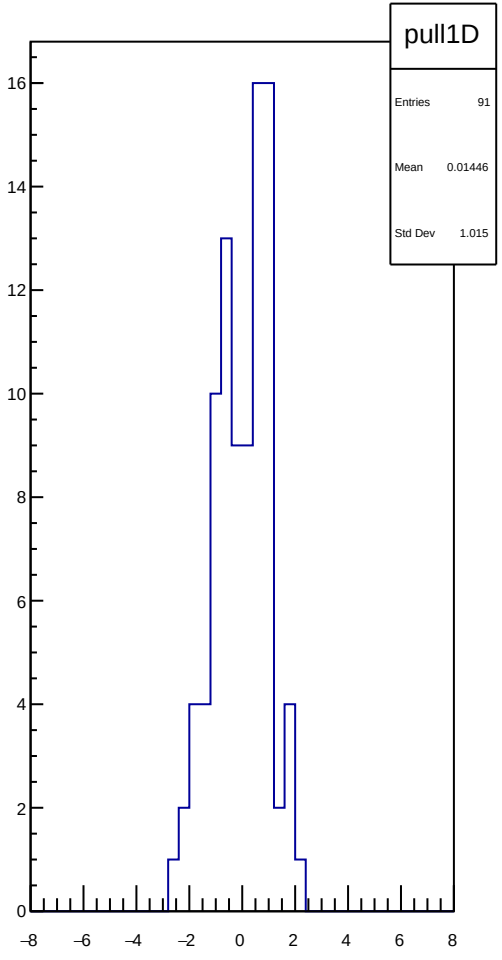

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 5.493e+04 / 90
p0 116.2 ± 0.08909
260
240
220
200
180
160
140
120
100
80

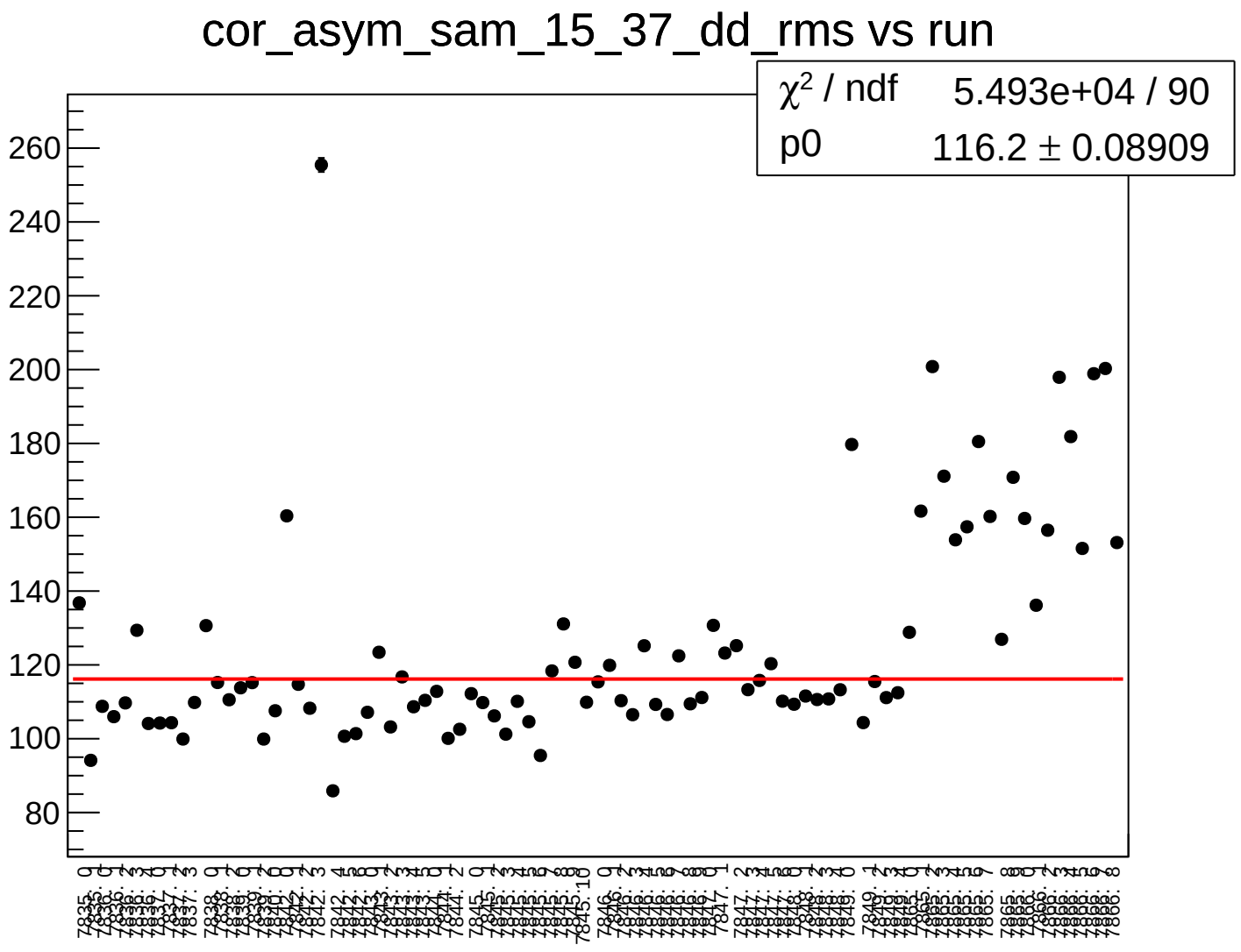

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 80.65 / 90
p0 −47.77 ± 1286
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 86.61
Std Dev 0
2
1
0
−1
−2

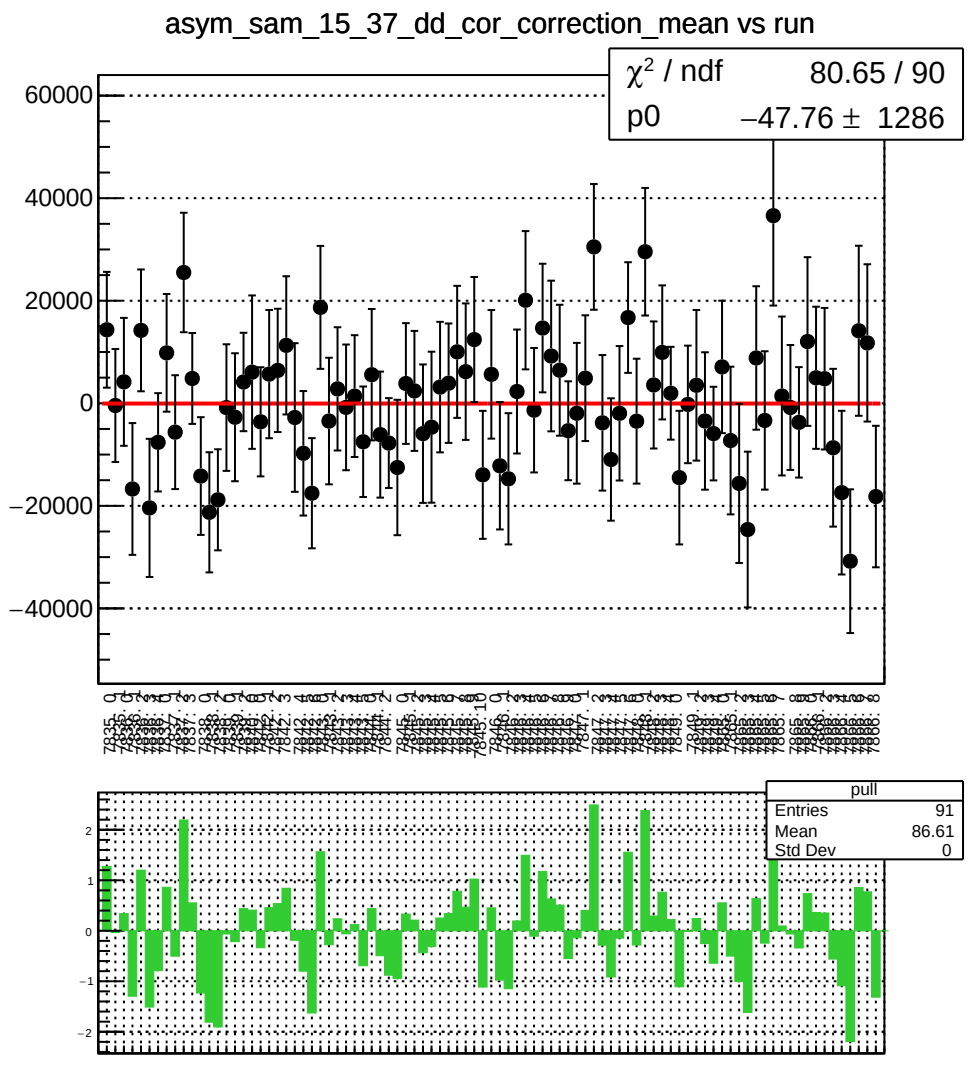

pull1D
Entries 91
Mean 0.01231
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

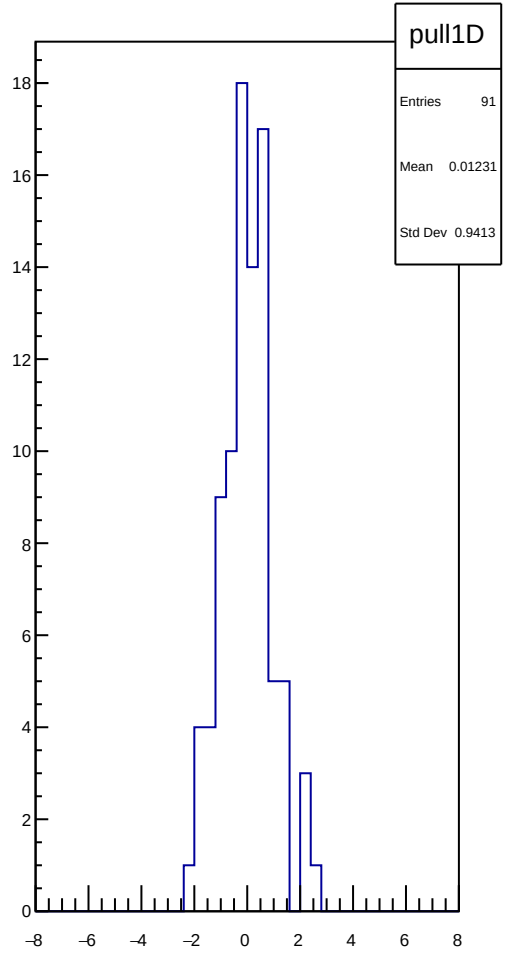

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.549e+04 / 90
p0 1199 ± 0.9092
1700
1600
1500
1400
1300
1200
1100
1000

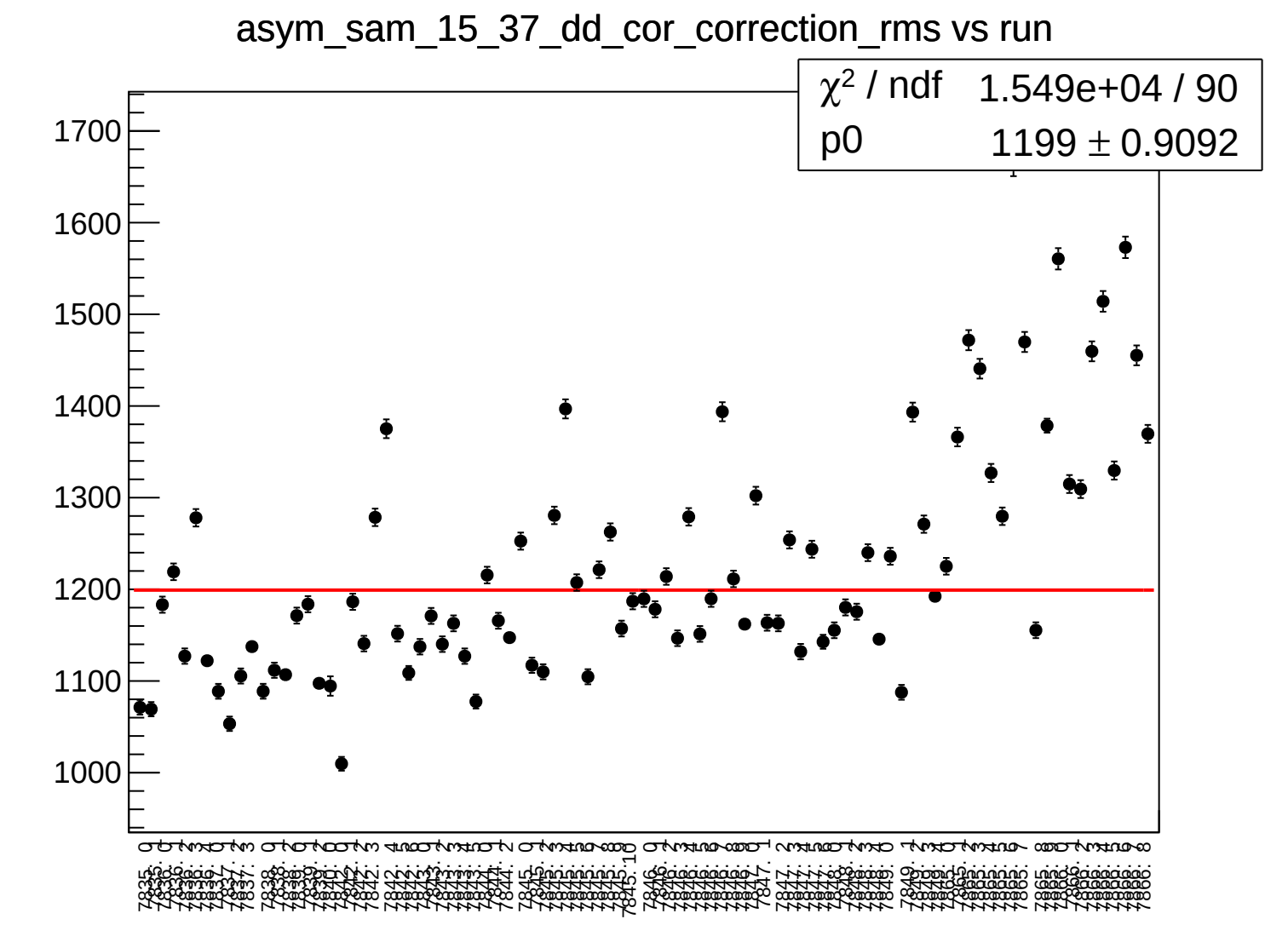

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.75 / 90
p0 −17.54 ± 126
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 101.9
Std Dev 0
2
1
0
−1
−2

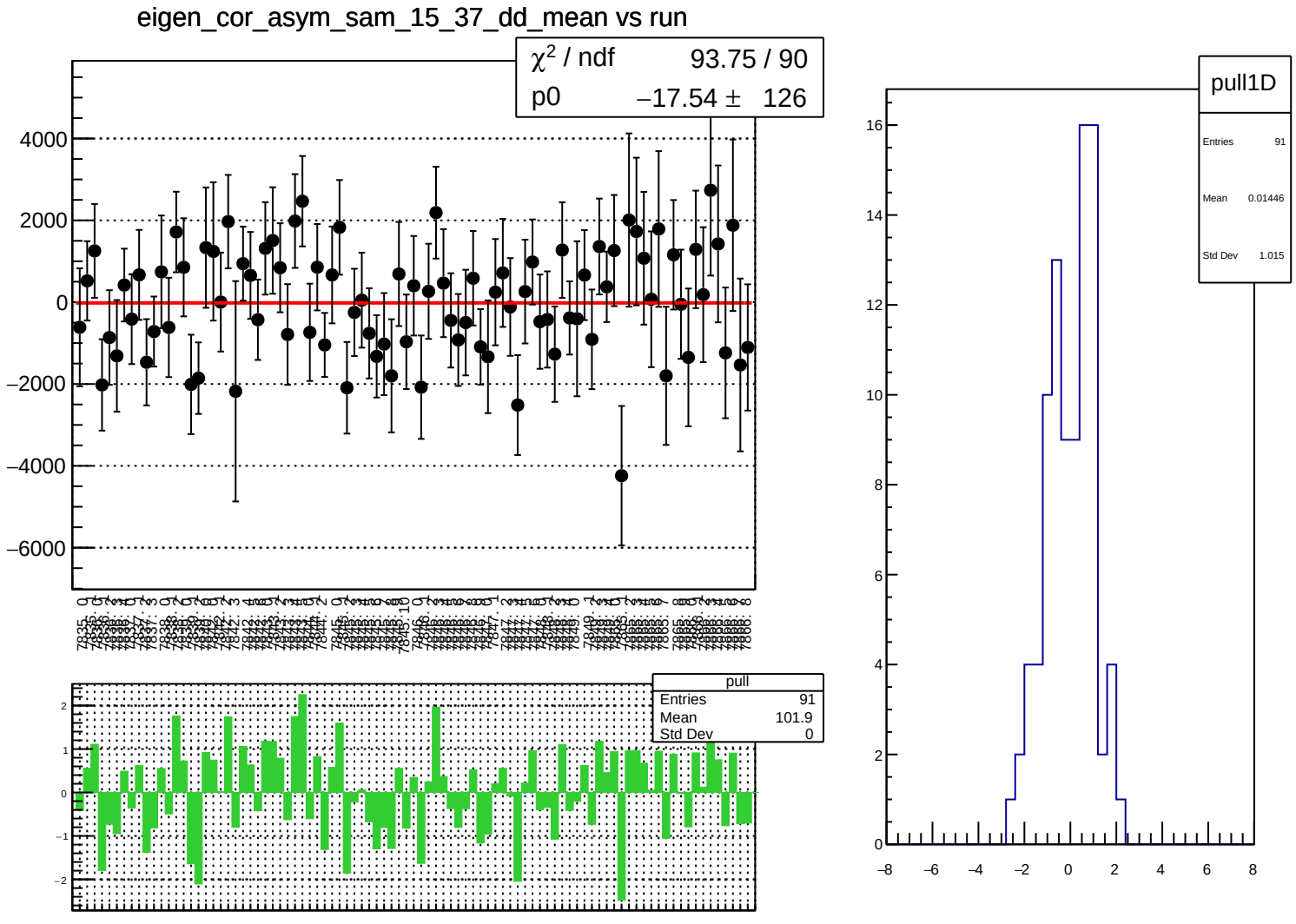

pull1D
Entries 91
Mean 0.01446
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

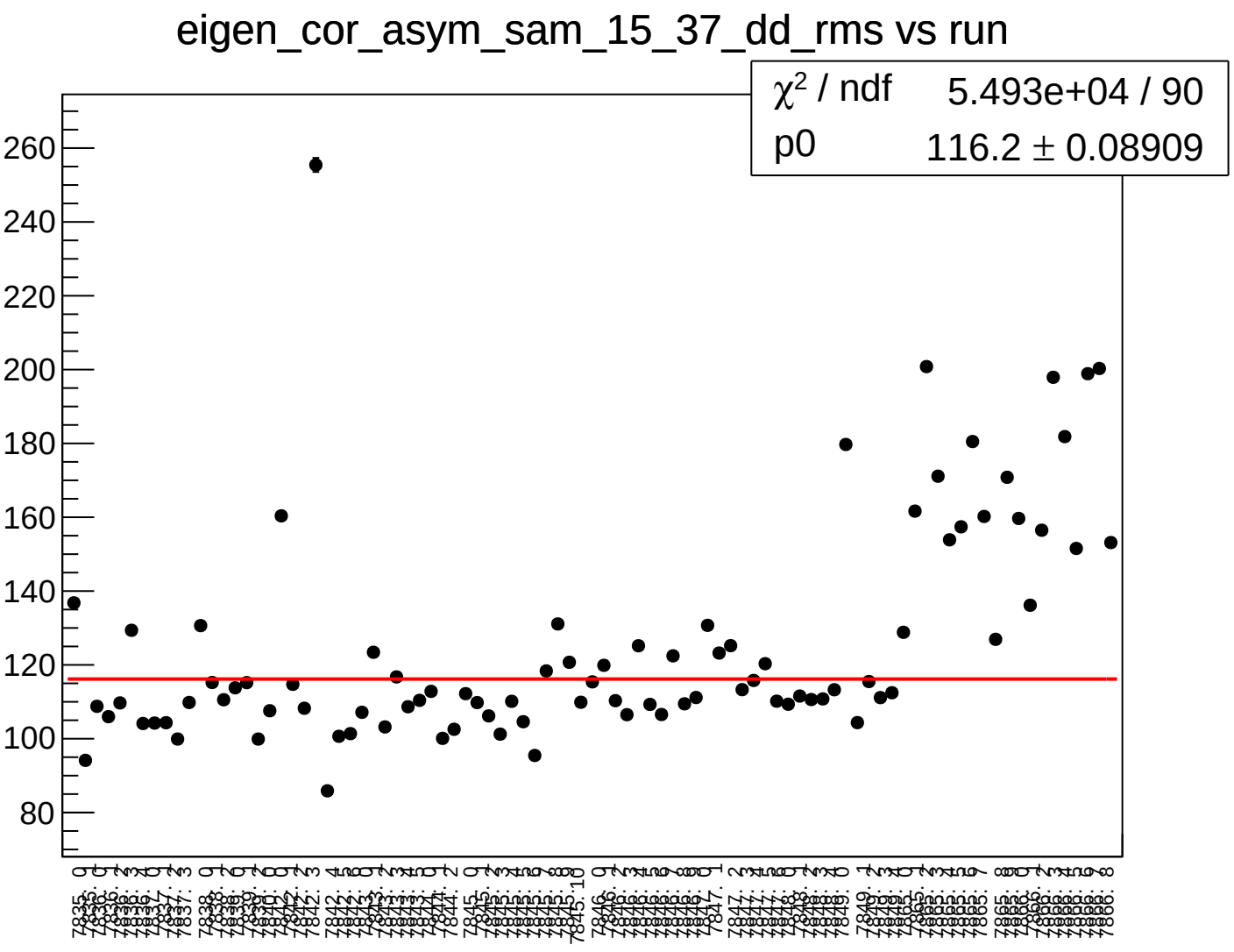

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5.493e+04 / 90
p0 116.2 ± 0.08909
260
240
220
200
180
160
140
120
100
80

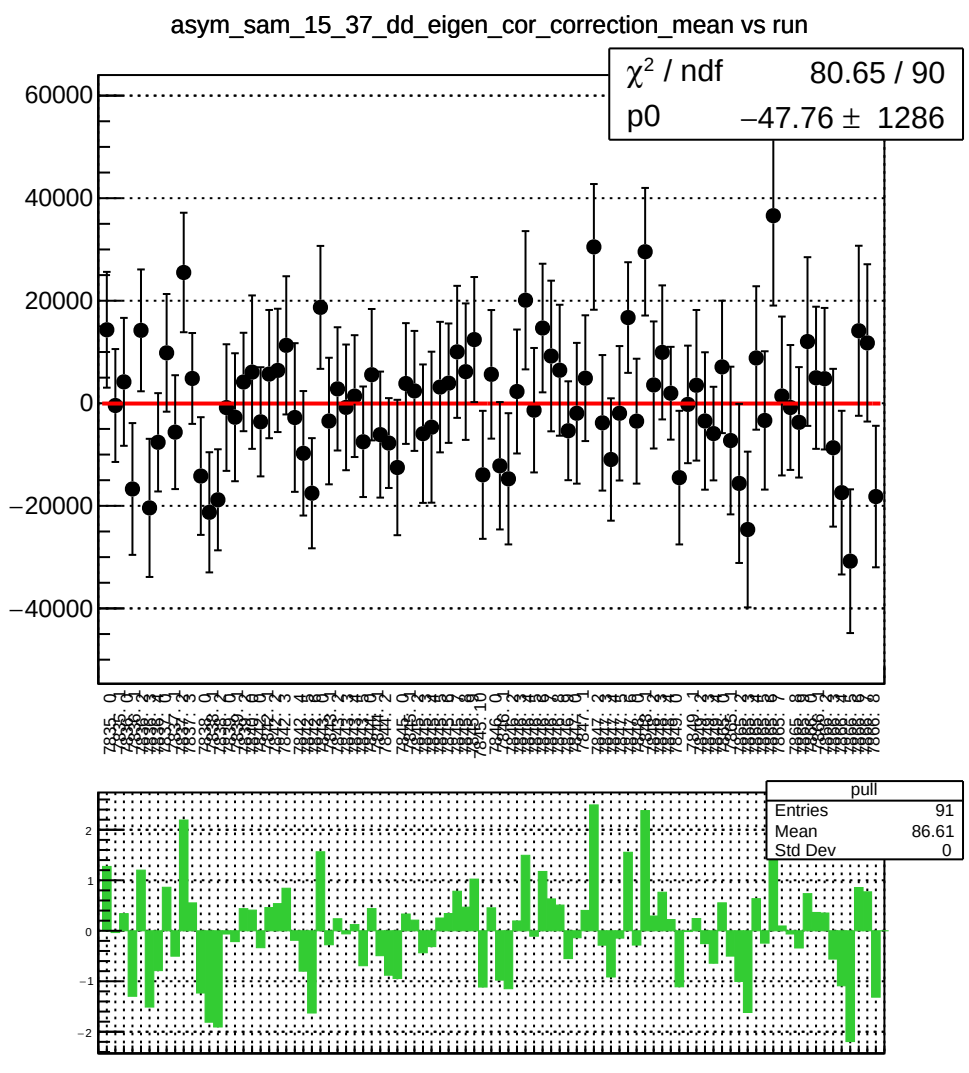

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 80.65 / 90
p0 −47.76 ± 1286
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 86.61
Std Dev 0
2
1
0
−1
−2

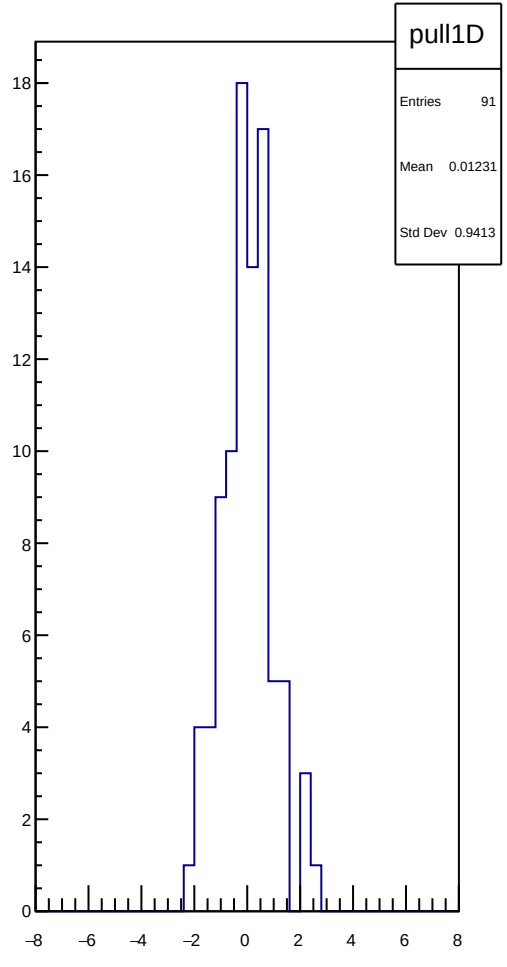

pull1D
Entries 91
Mean 0.01231
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

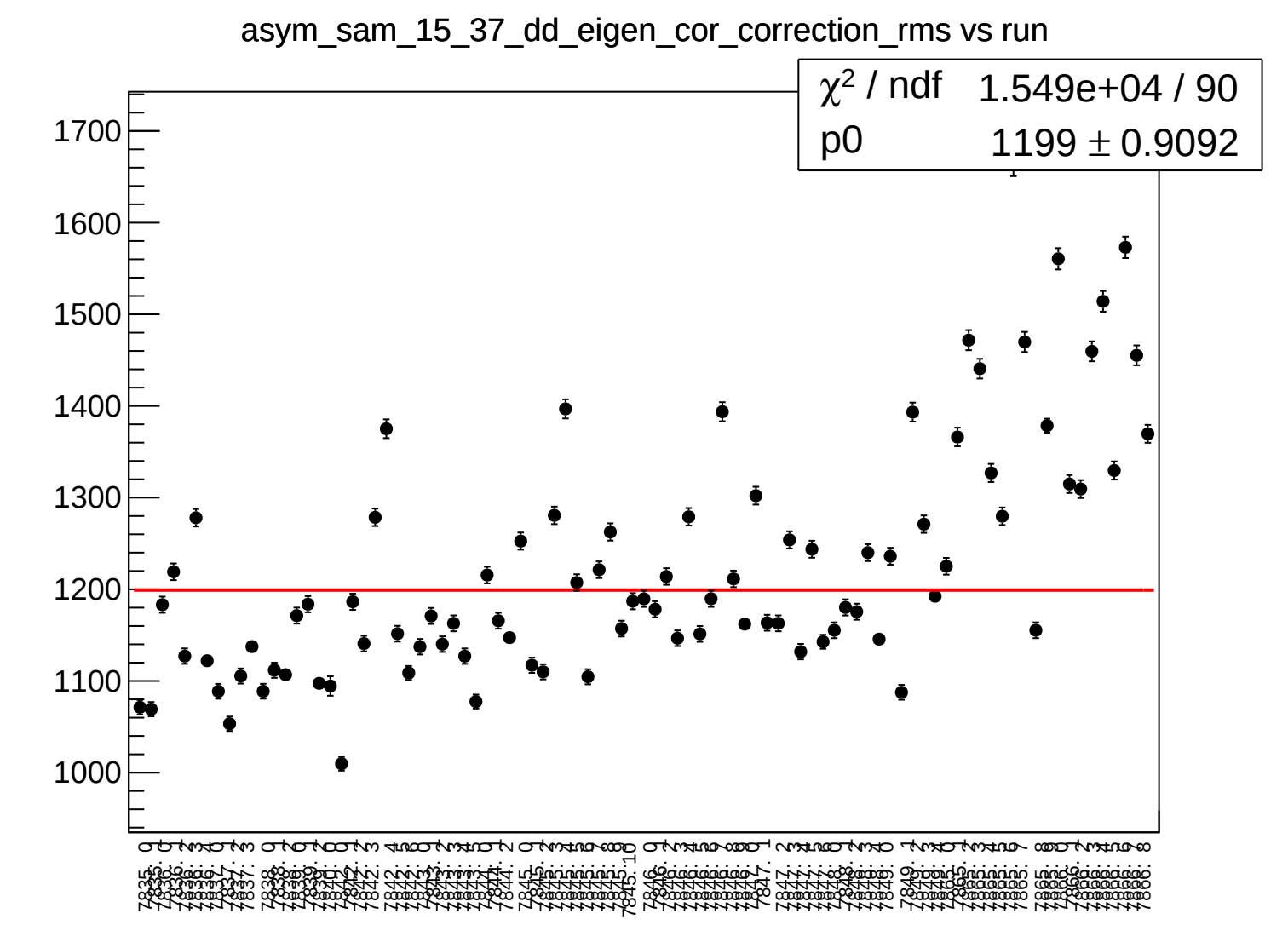

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.549e+04 / 90
p0 1199 ± 0.9092
1700
1600
1500
1400
1300
1200
1100
1000

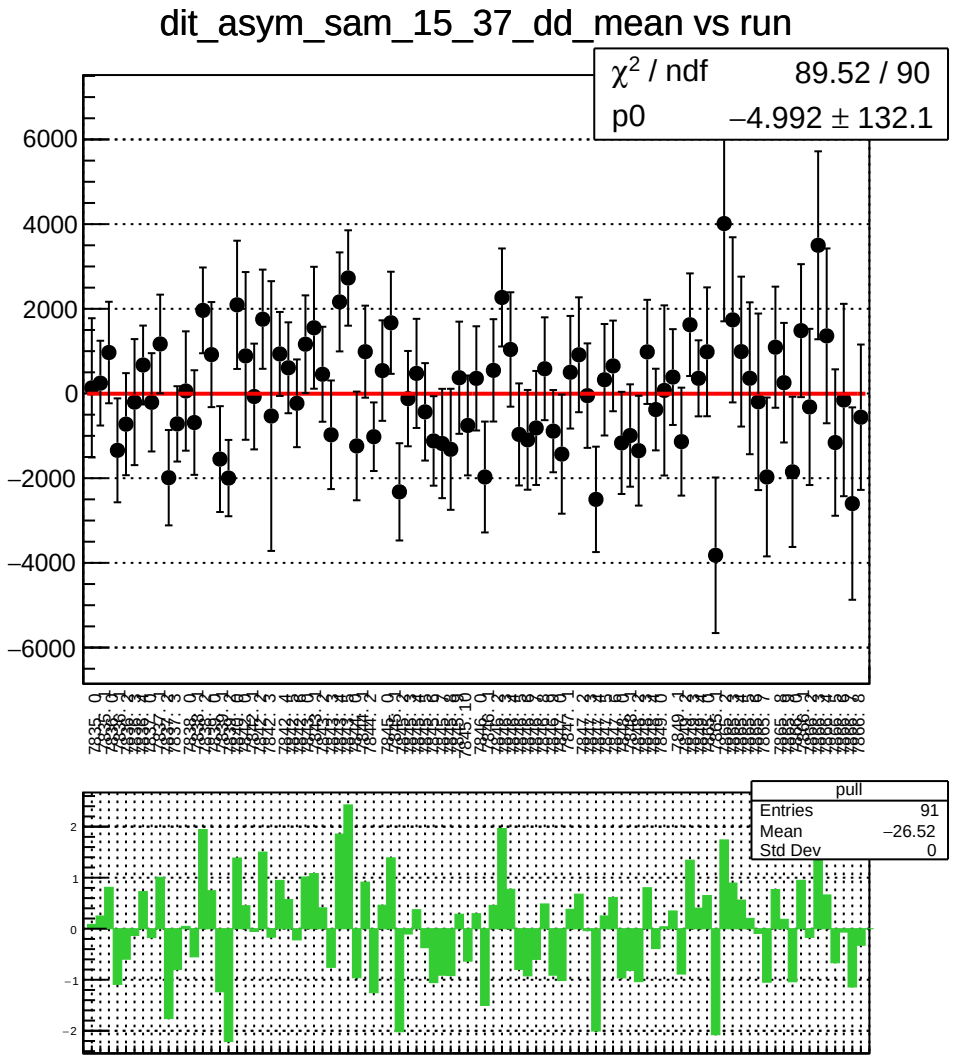

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.75 / 90
p0 −17.54 ± 126
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 101.9
Std Dev 0
pull1D
Entries 91
Mean 0.01446
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

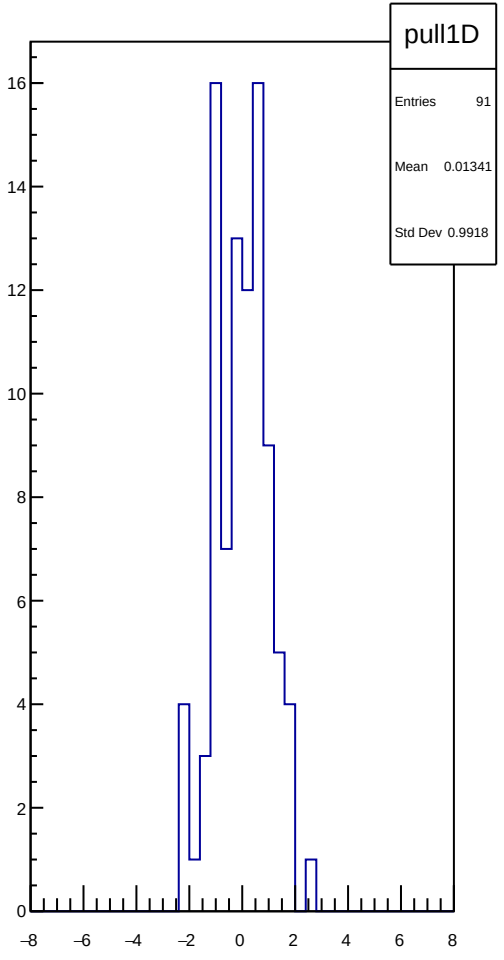

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 5.493e+04 / 90
p0 116.2 ± 0.08909
260
240
220
200
180
160
140
120
100
80

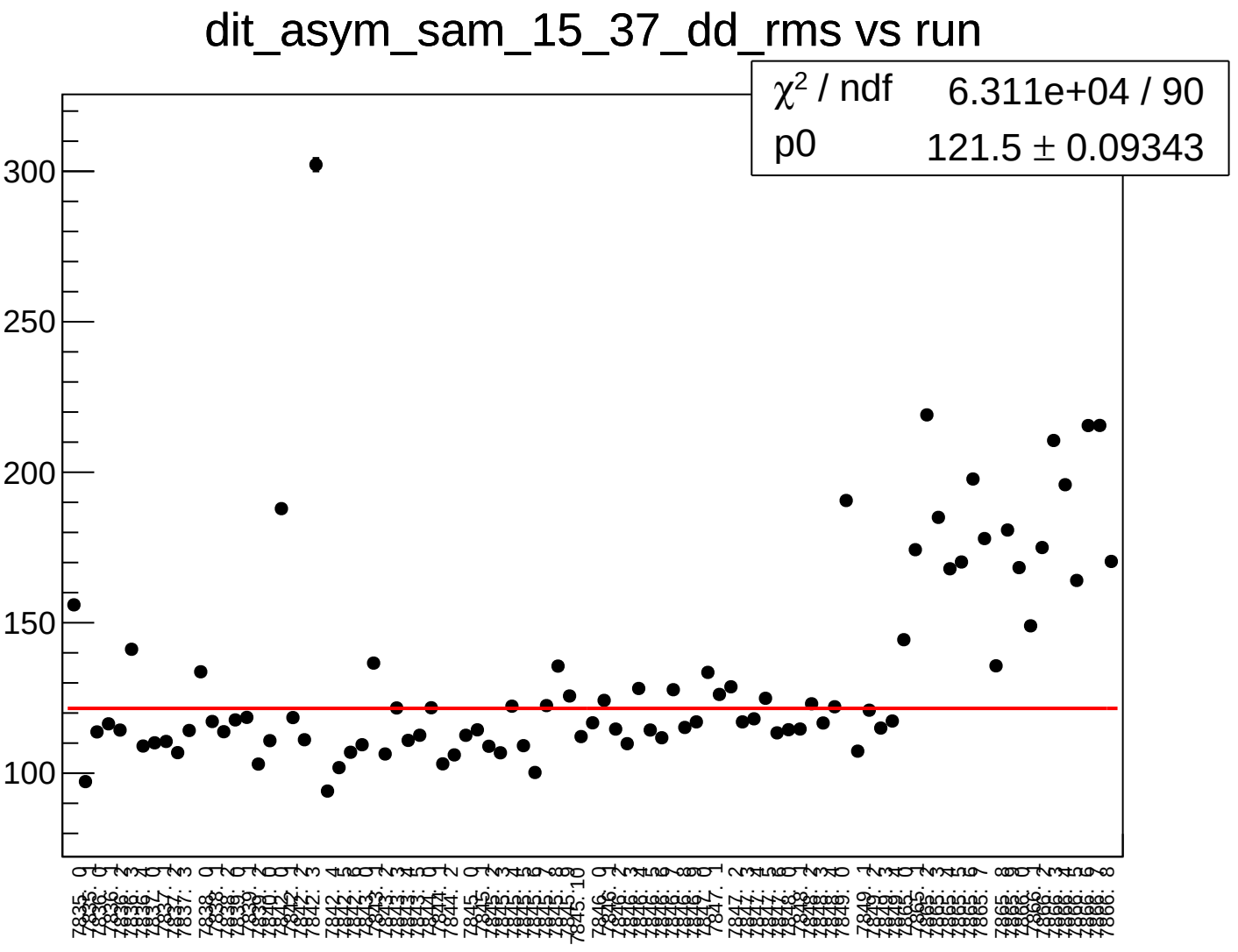

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.65 / 90
p0 −47.76 ± 1286
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 86.61
Std Dev 0
2
1
0
−1
−2

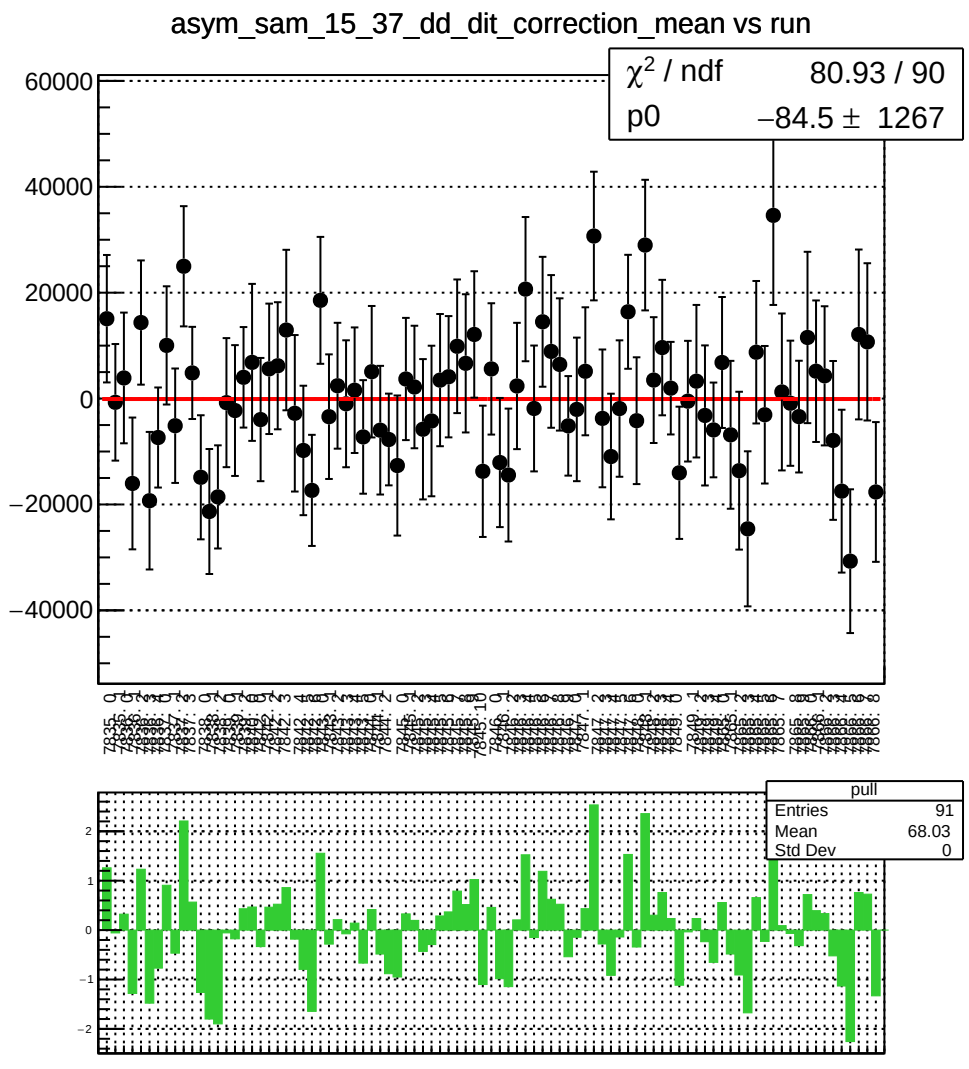

pull1D
Entries 91
Mean 0.01231
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

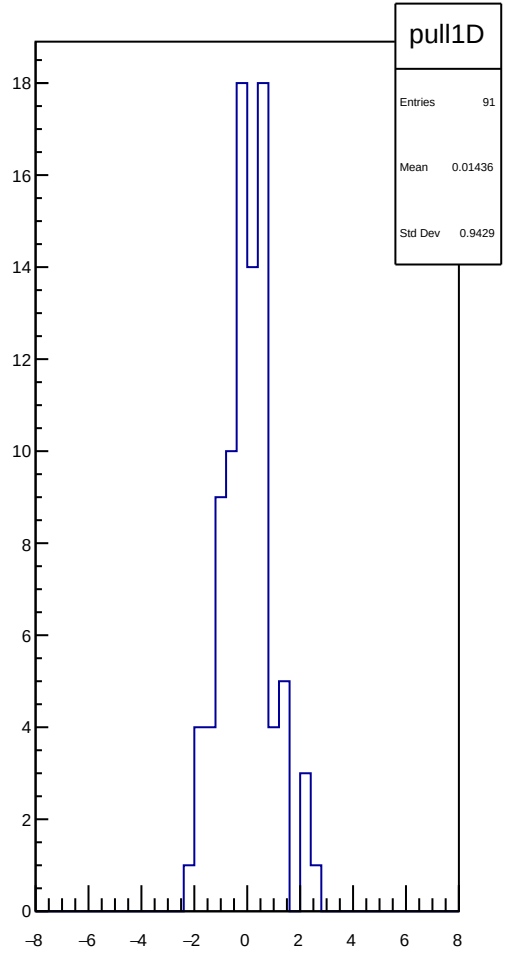

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.549e+04 / 90
p0 1199 ± 0.9092
1700
1600
1500
1400
1300
1200
1100
1000

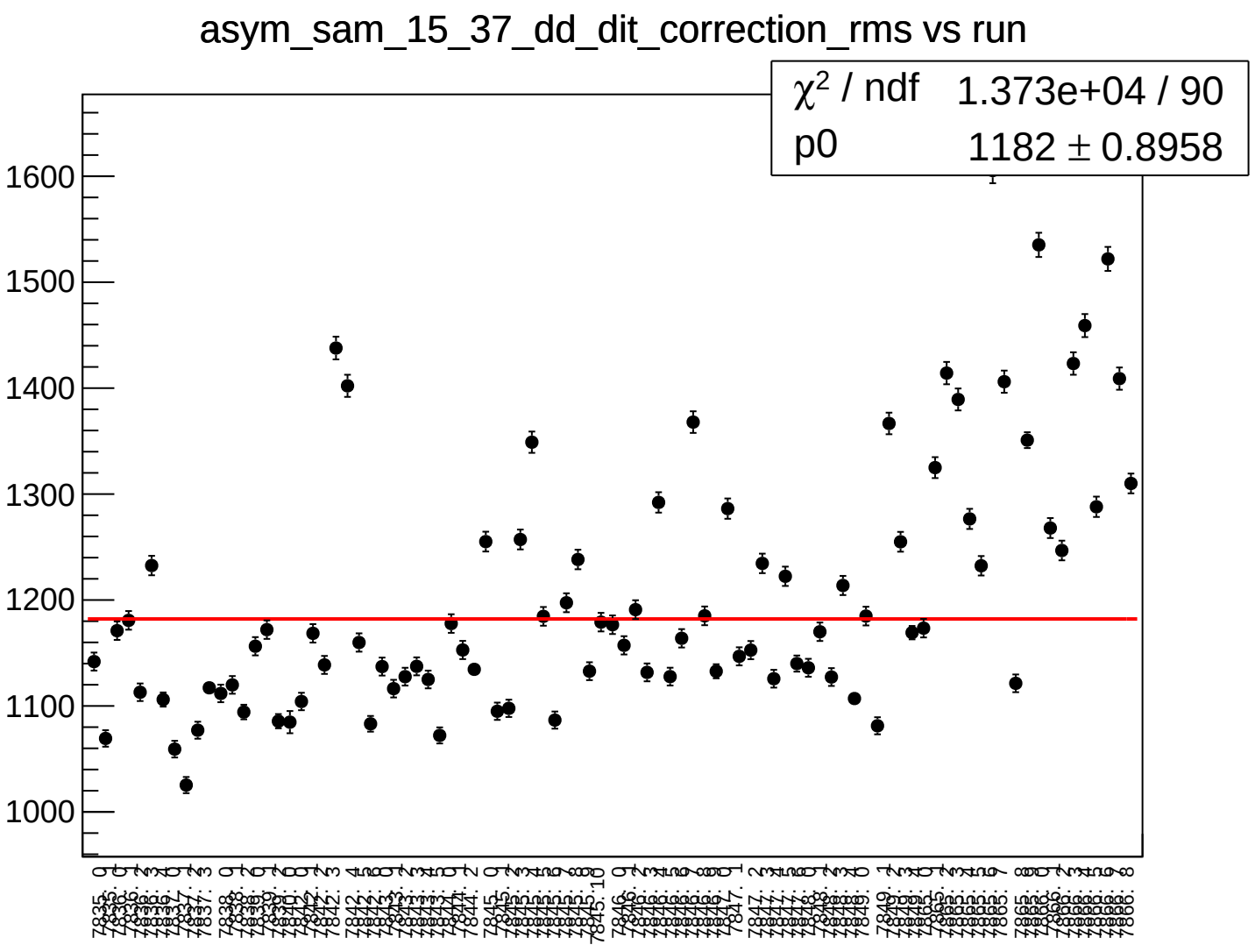

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.52 / 90
p0 −4.992 ± 132.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −26.52
Std Dev 0
2
1
0
−1
−2

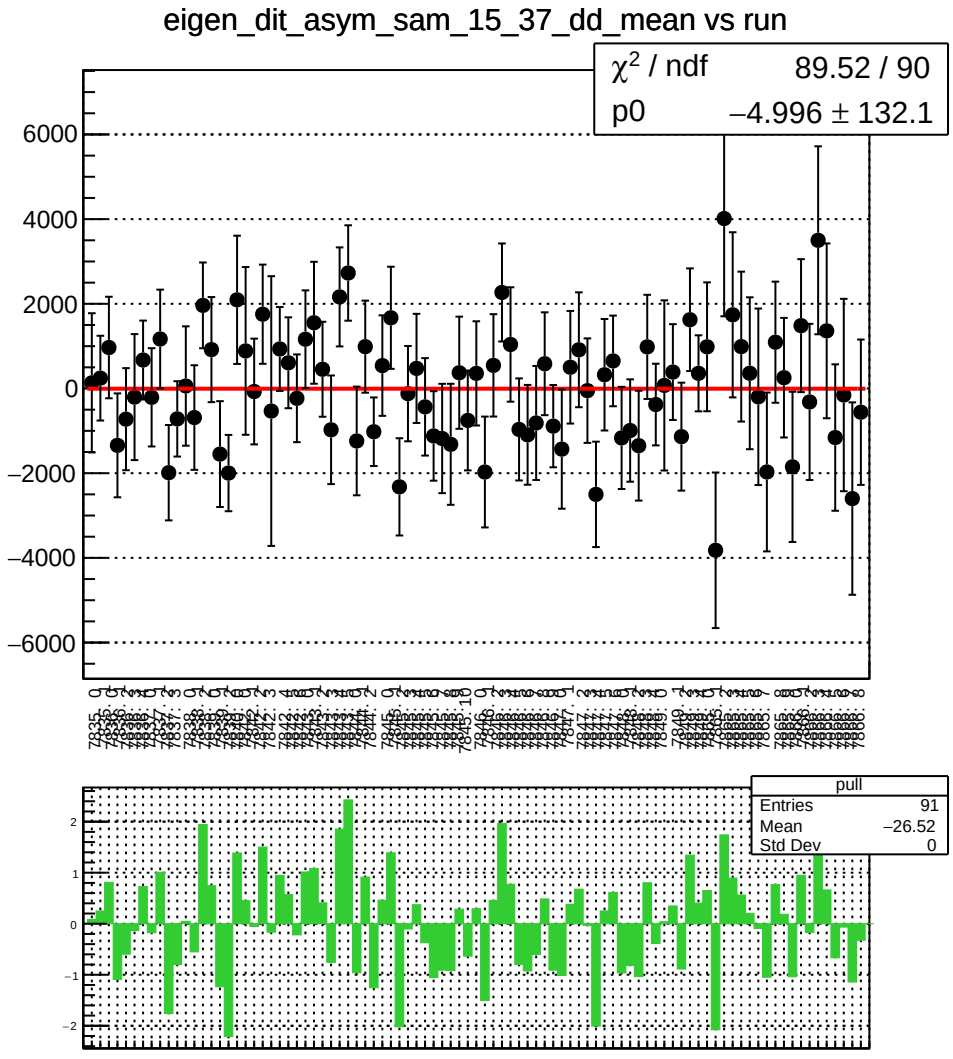

pull1D
Entries 91
Mean 0.01341
Std Dev 0.9918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

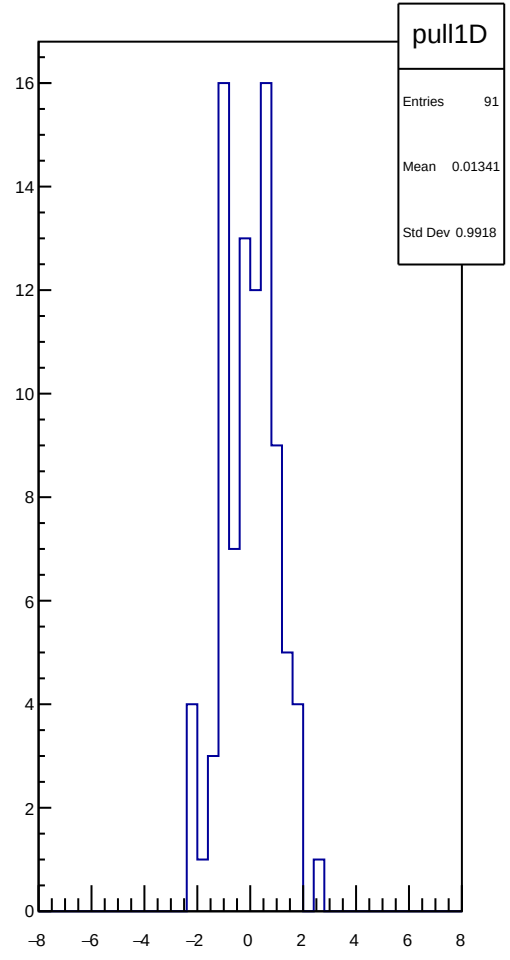

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6.311e+04 / 90
p0 121.5 ± 0.09343
300
250
200
150
100

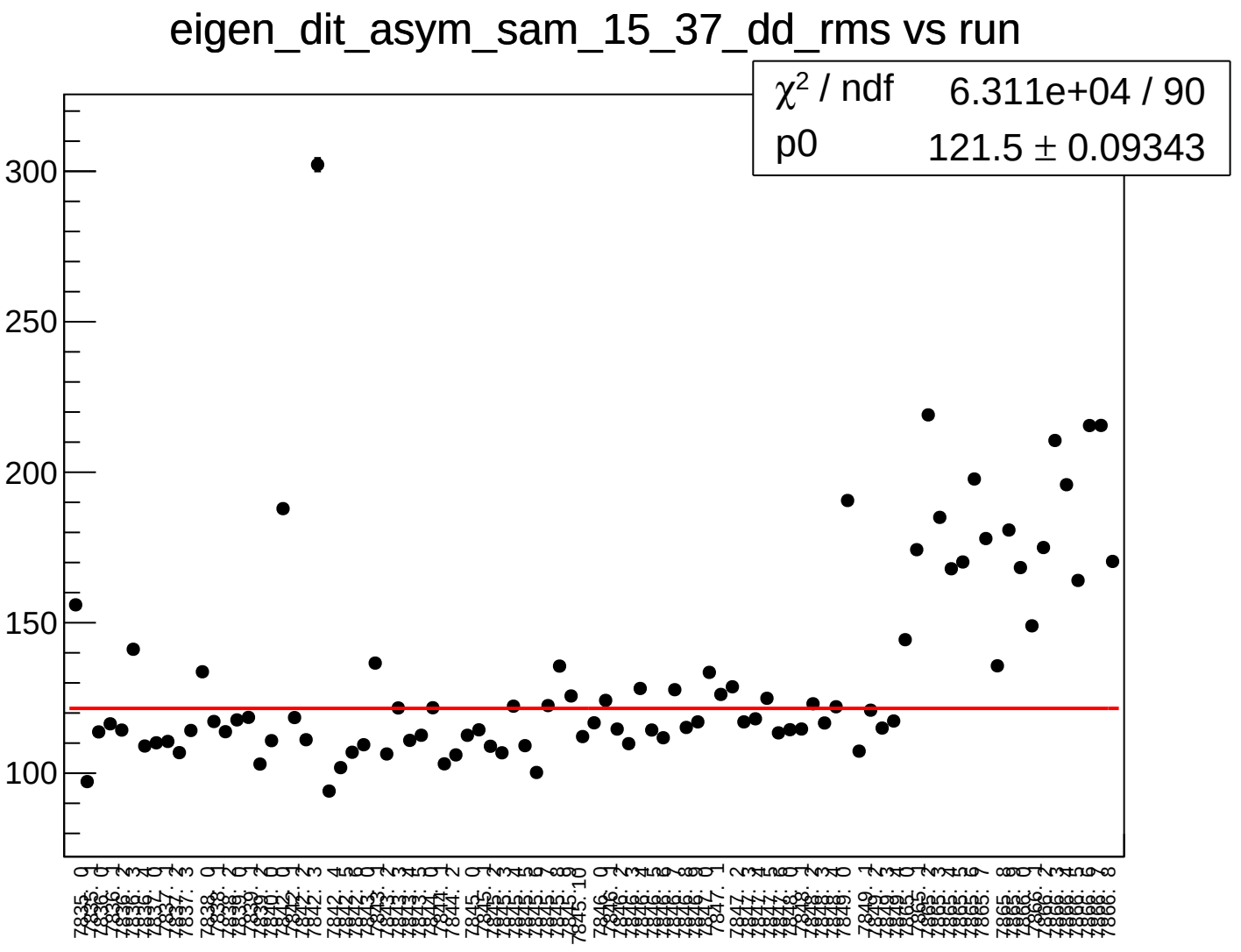

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 80.93 / 90
p0 −84.5 ± 1267
pull
Entries 91
Mean 68.03
Std Dev 0

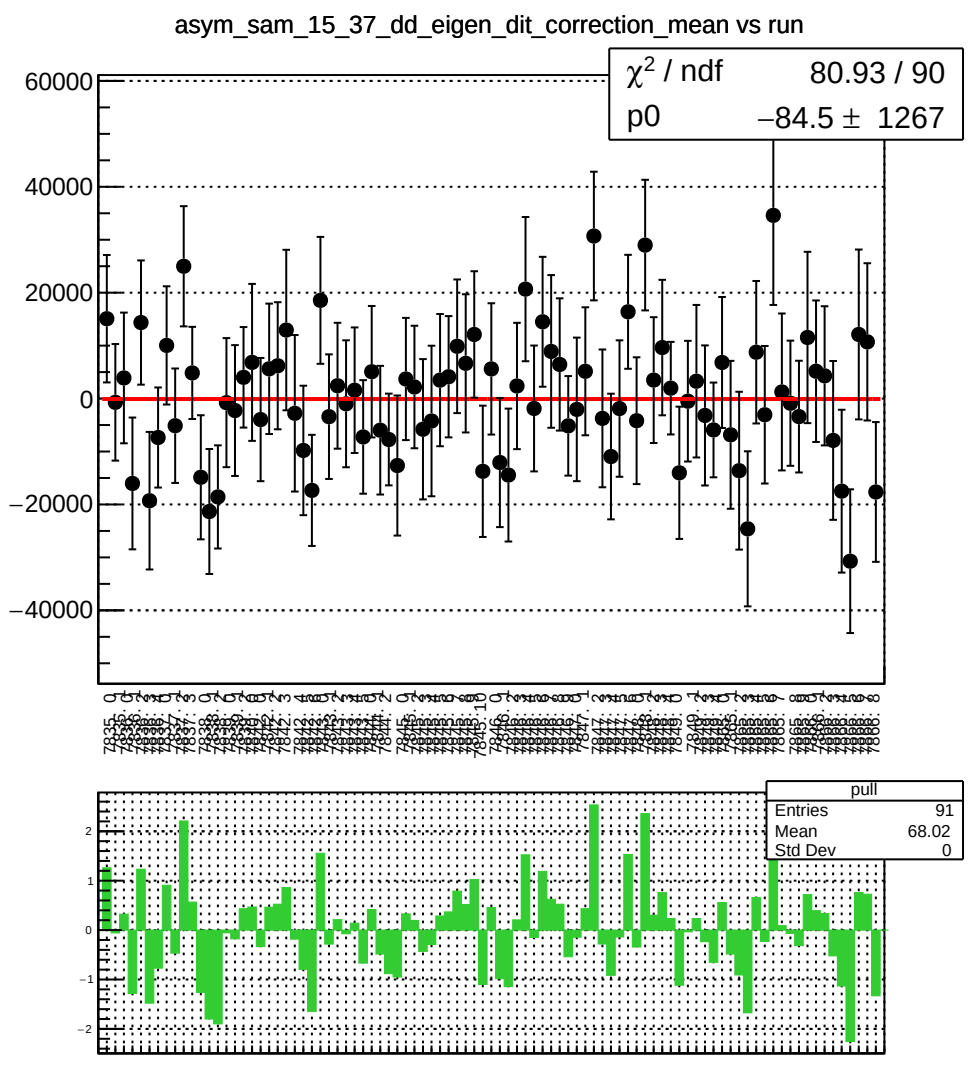

pull1D
Entries 91
Mean 0.01436
Std Dev 0.9429

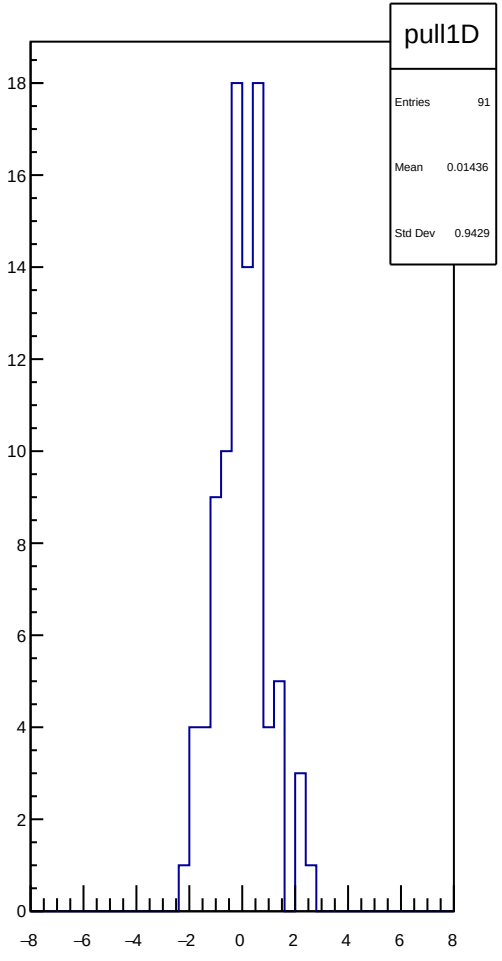

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.373e+04 / 90
p0 1182 ± 0.8958
1600
1500
1400
1300
1200
1100
1000

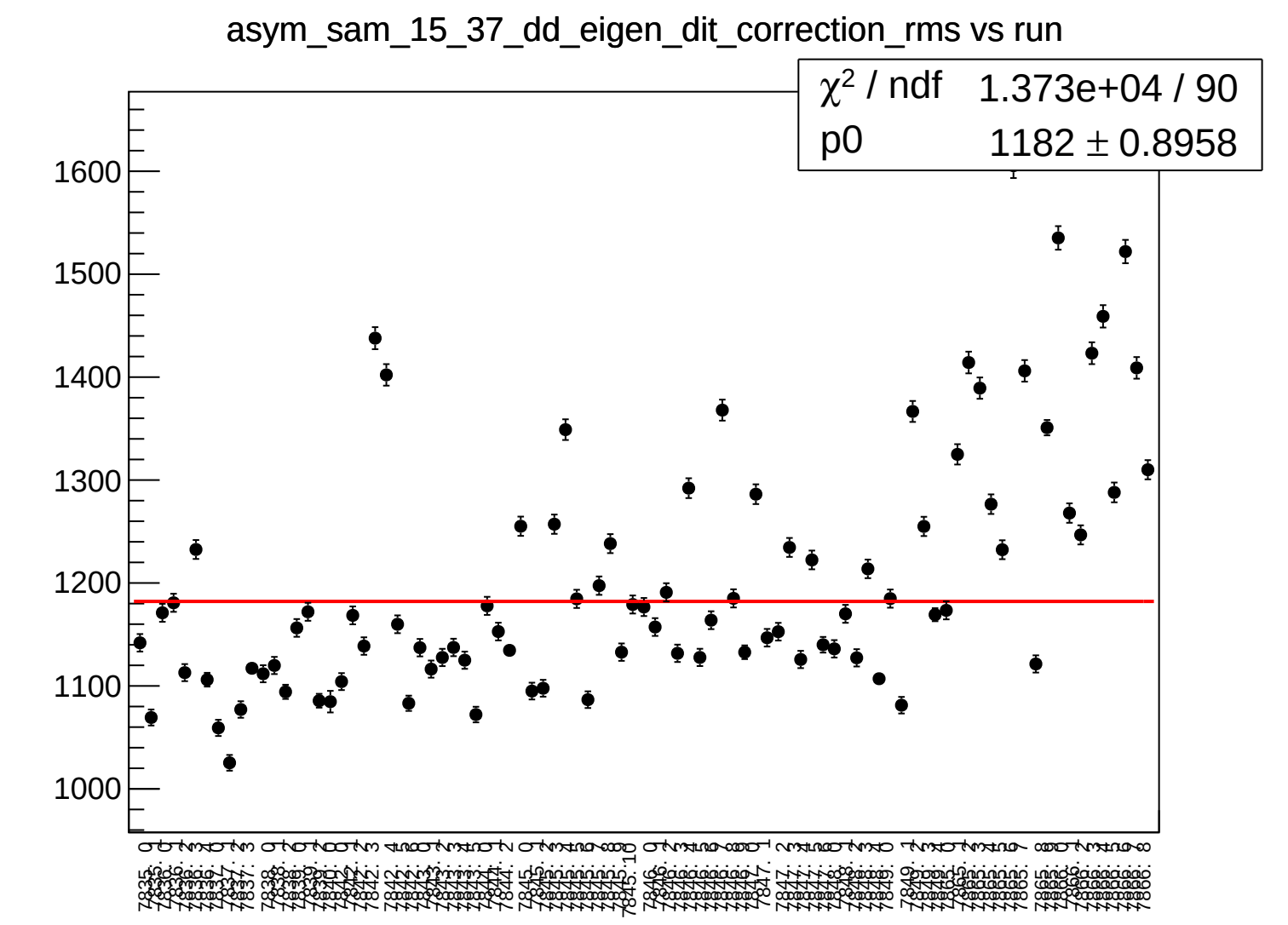

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.52 / 90
p0 −4.996 ± 132.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −26.52
Std Dev 0
2
1
0
−1
−2

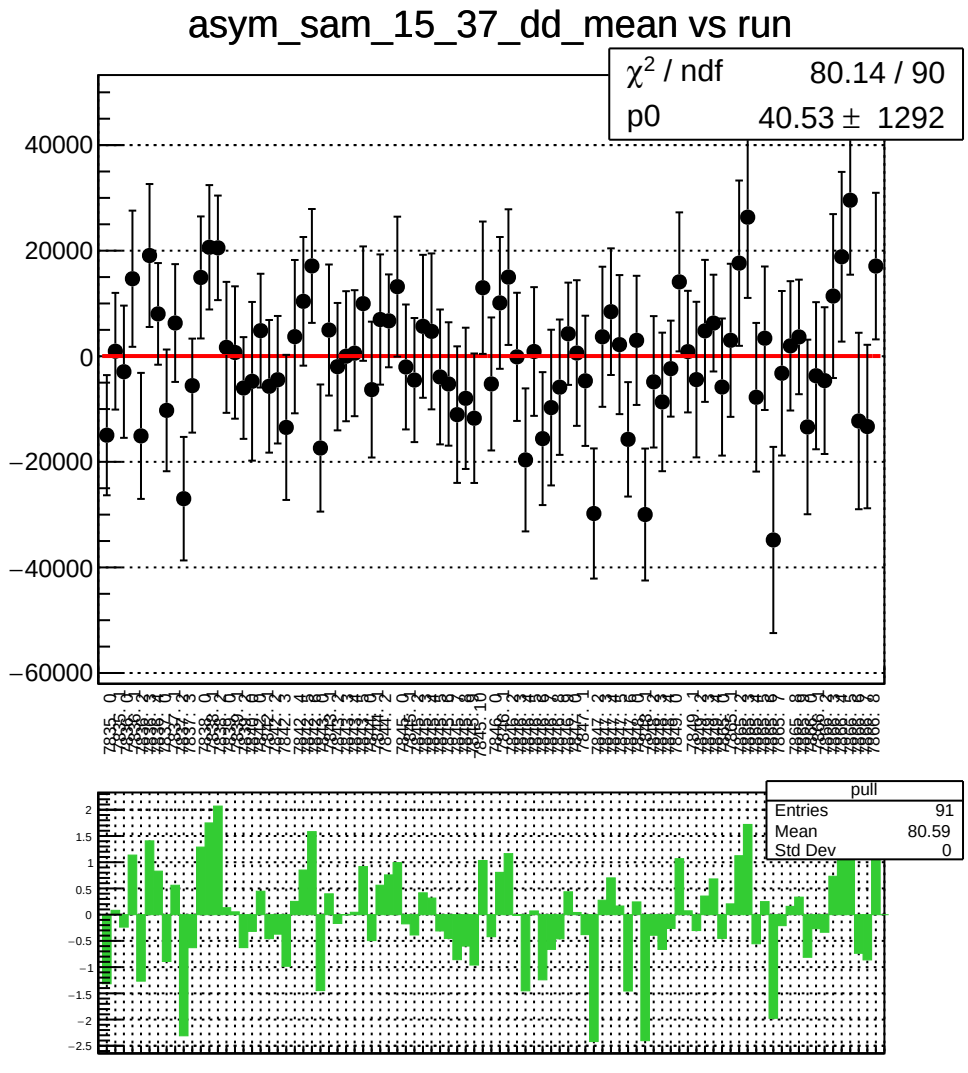

pull1D
Entries 91
Mean 0.01341
Std Dev 0.9918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

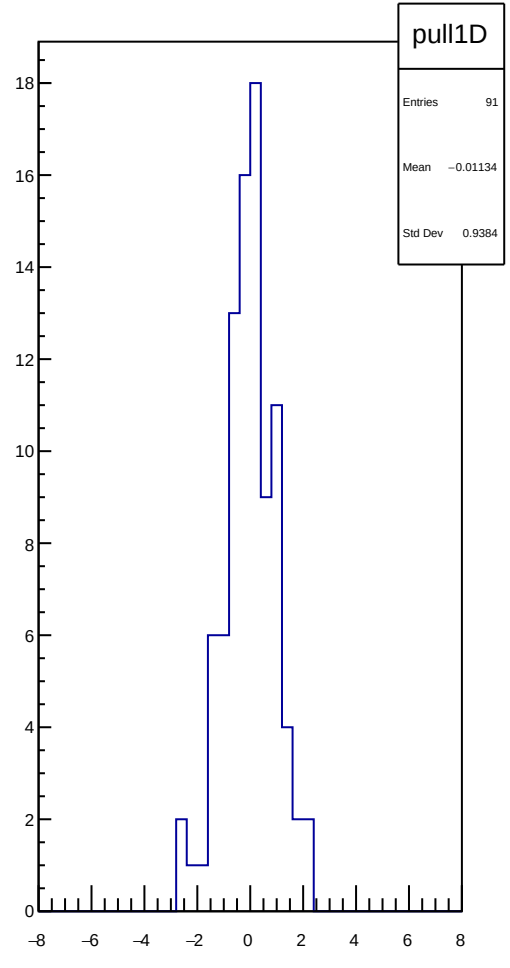

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6.311e+04 / 90
p0 121.5 ± 0.09343
300
250
200
150
100

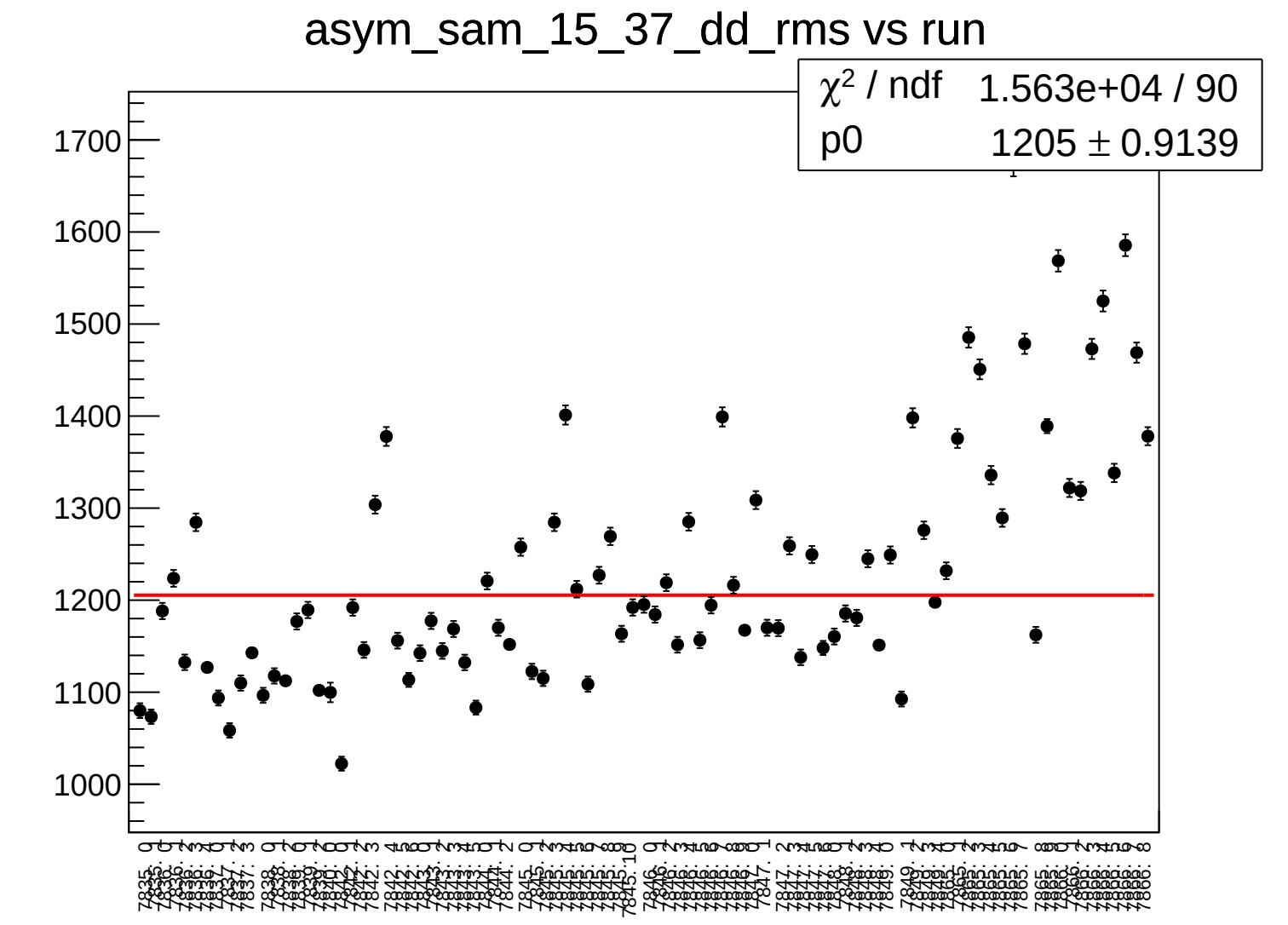

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.93 / 90
p0 −84.5 ± 1267
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 68.02
Std Dev 0
2
1
0
−1
−2

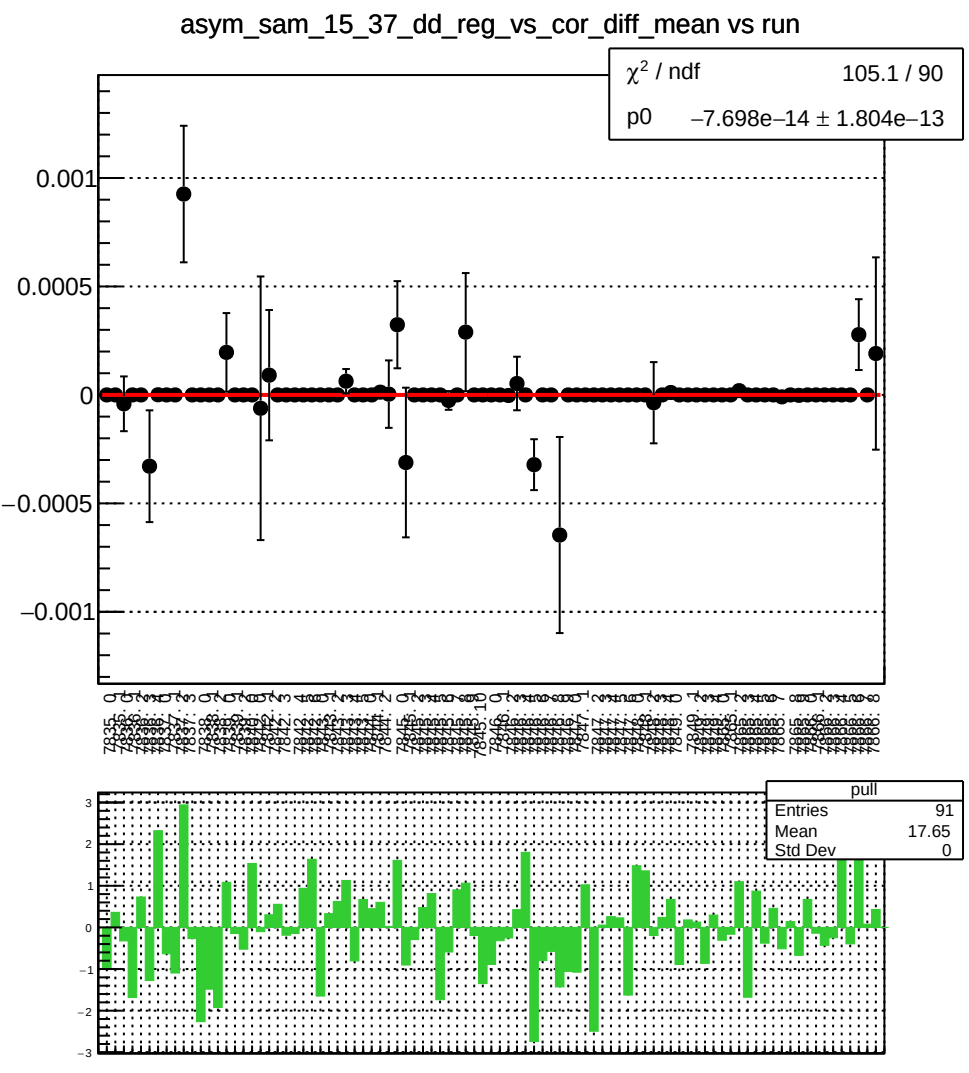

pull1D
Entries 91
Mean 0.01436
Std Dev 0.9429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

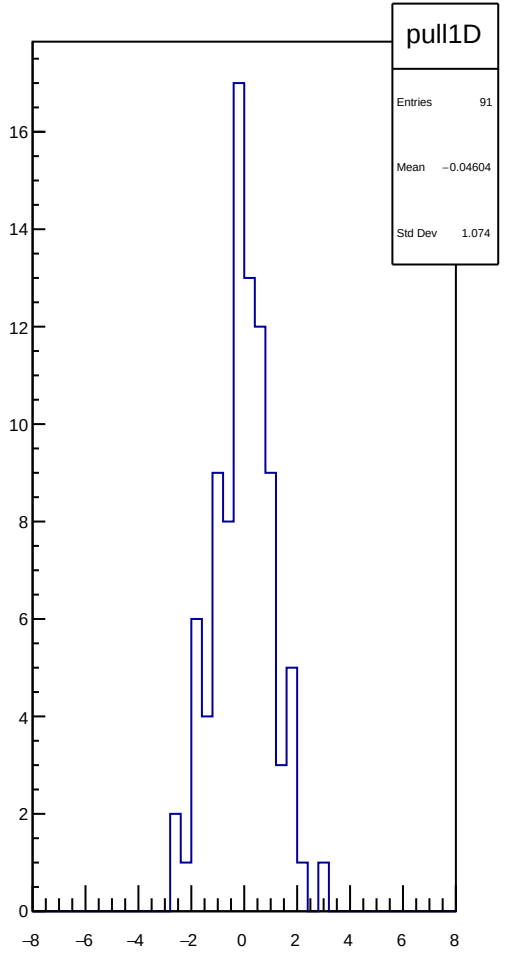

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.373e+04 / 90
p0 1182 ± 0.8958
1600
1500
1400
1300
1200
1100
1000

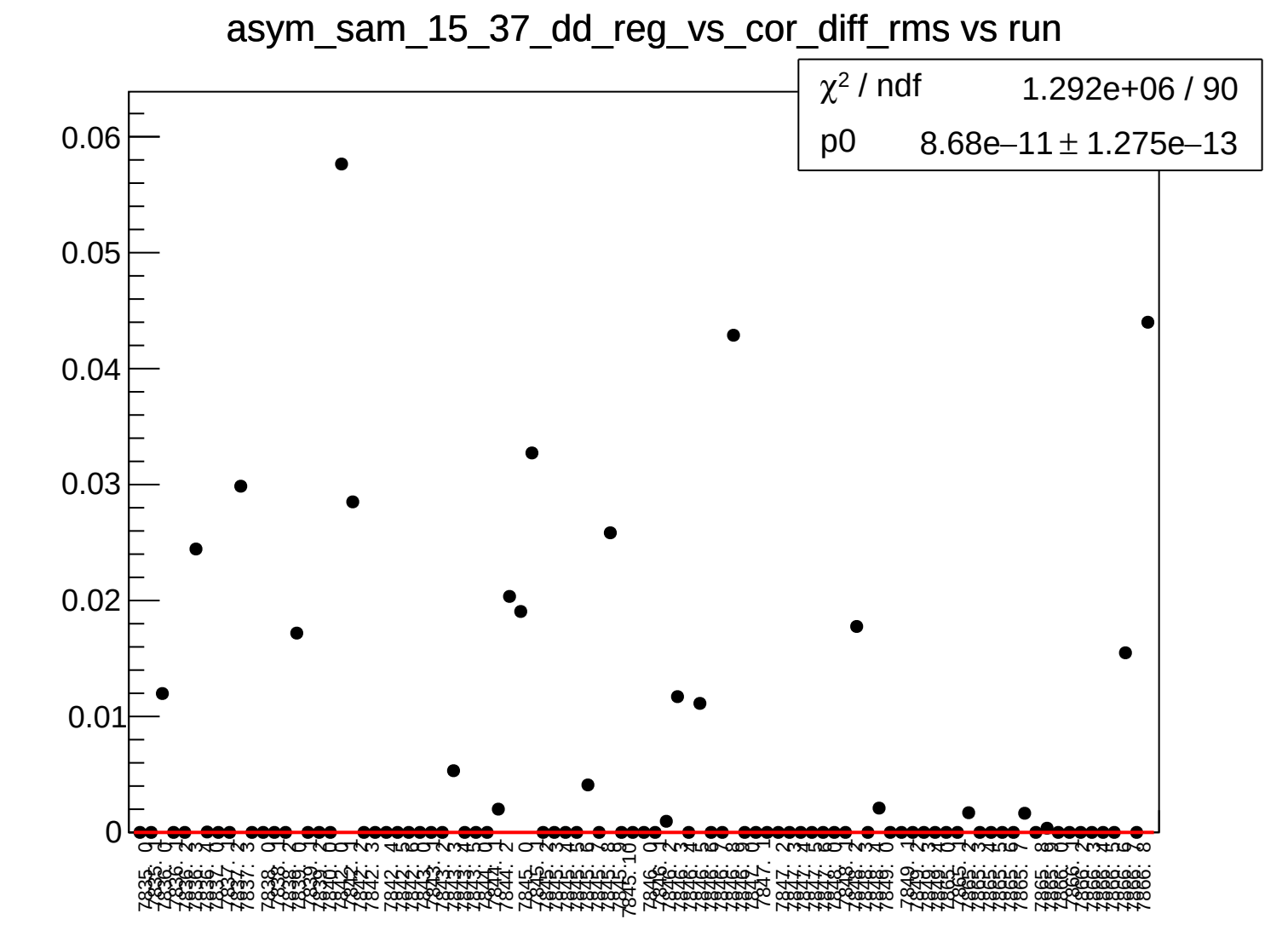

asym_sam_15_37_dd_mean vs run
χ^2 / ndf 80.14 / 90
p0 40.53 ± 1292
pull
Entries 91
Mean 80.59
Std Dev 0

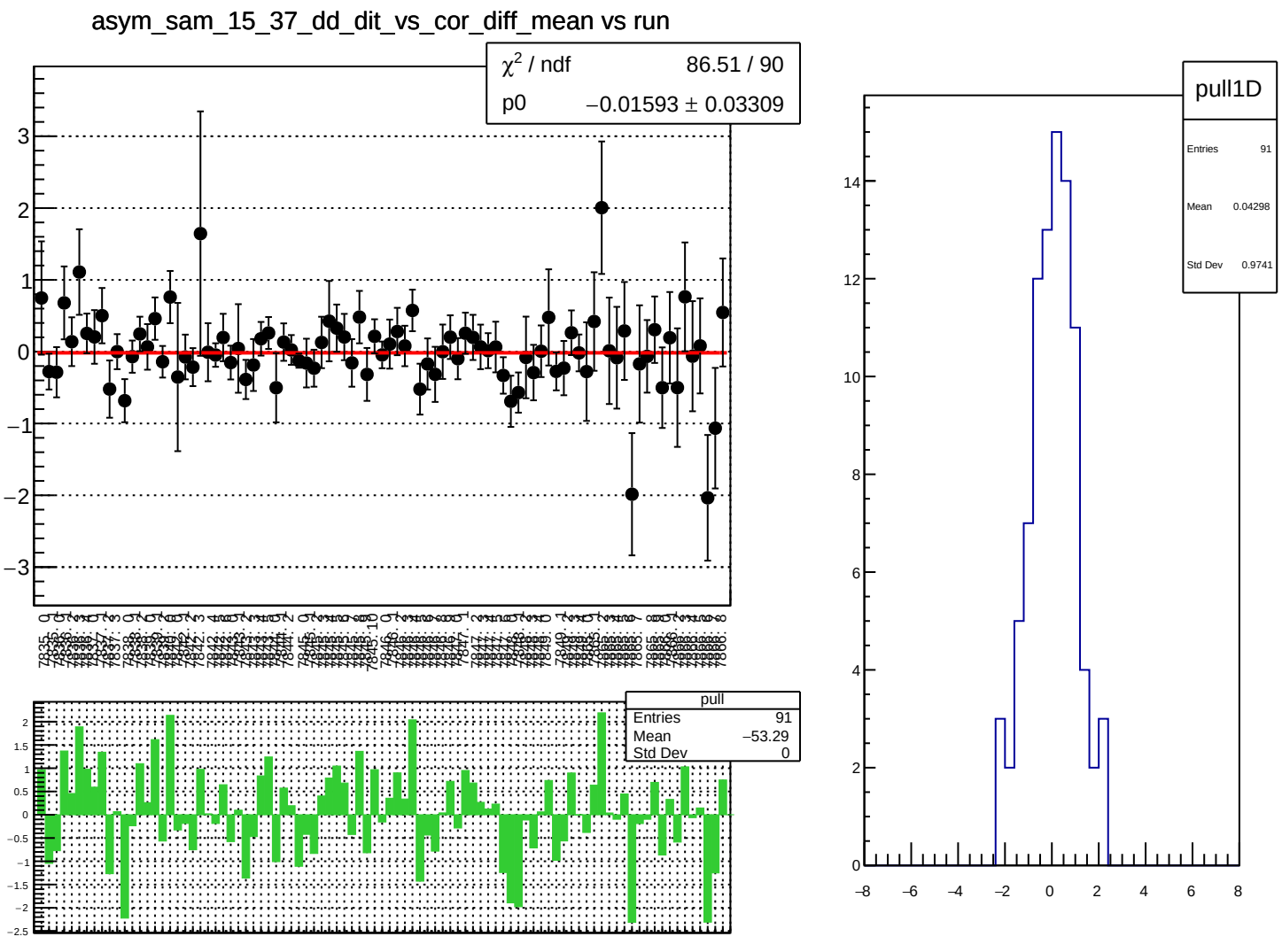

pull1D
Entries 91
Mean −0.01134
Std Dev 0.9384

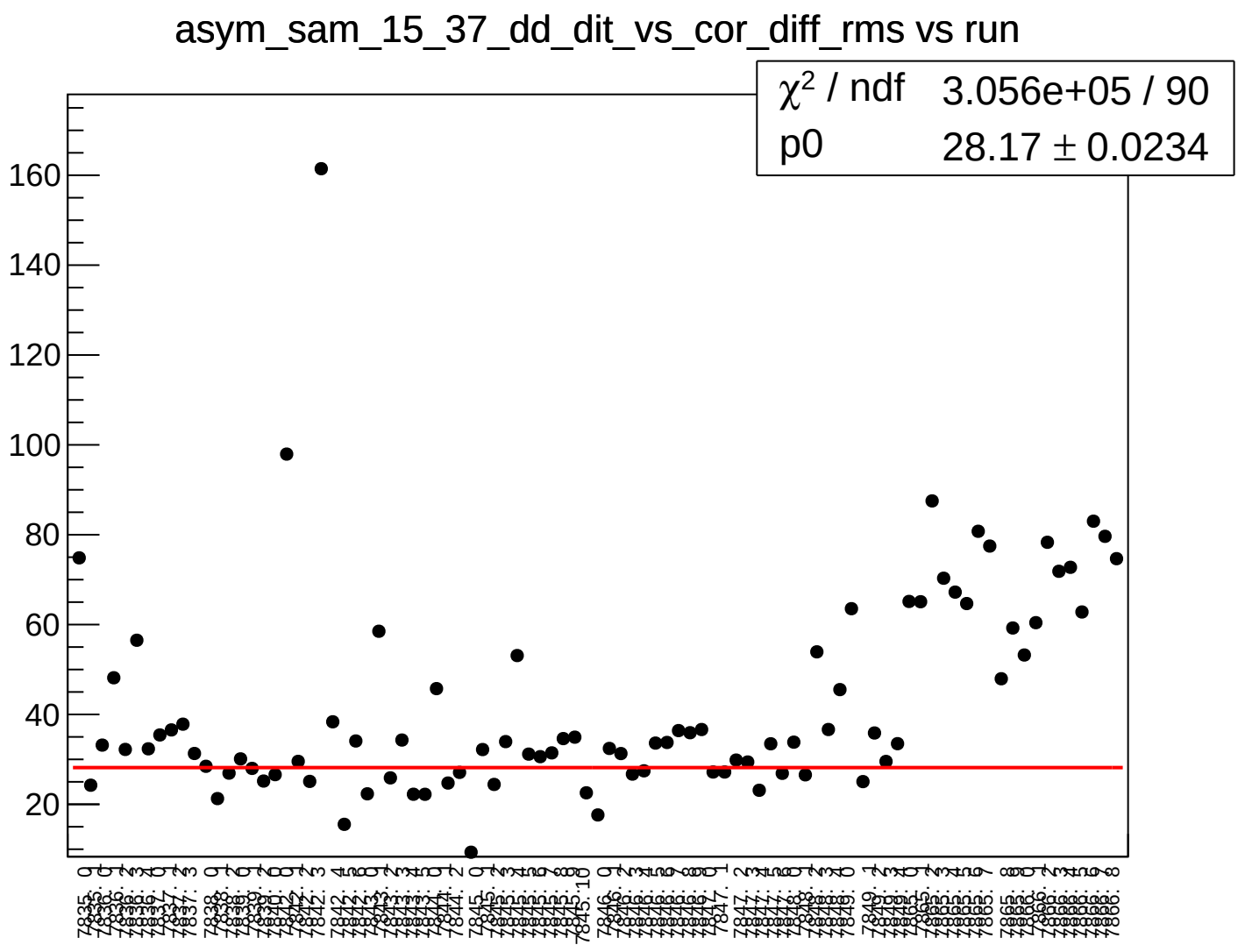

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.563e+04 / 90
p0 1205 ± 0.9139
1700
1600
1500
1400
1300
1200
1100
1000

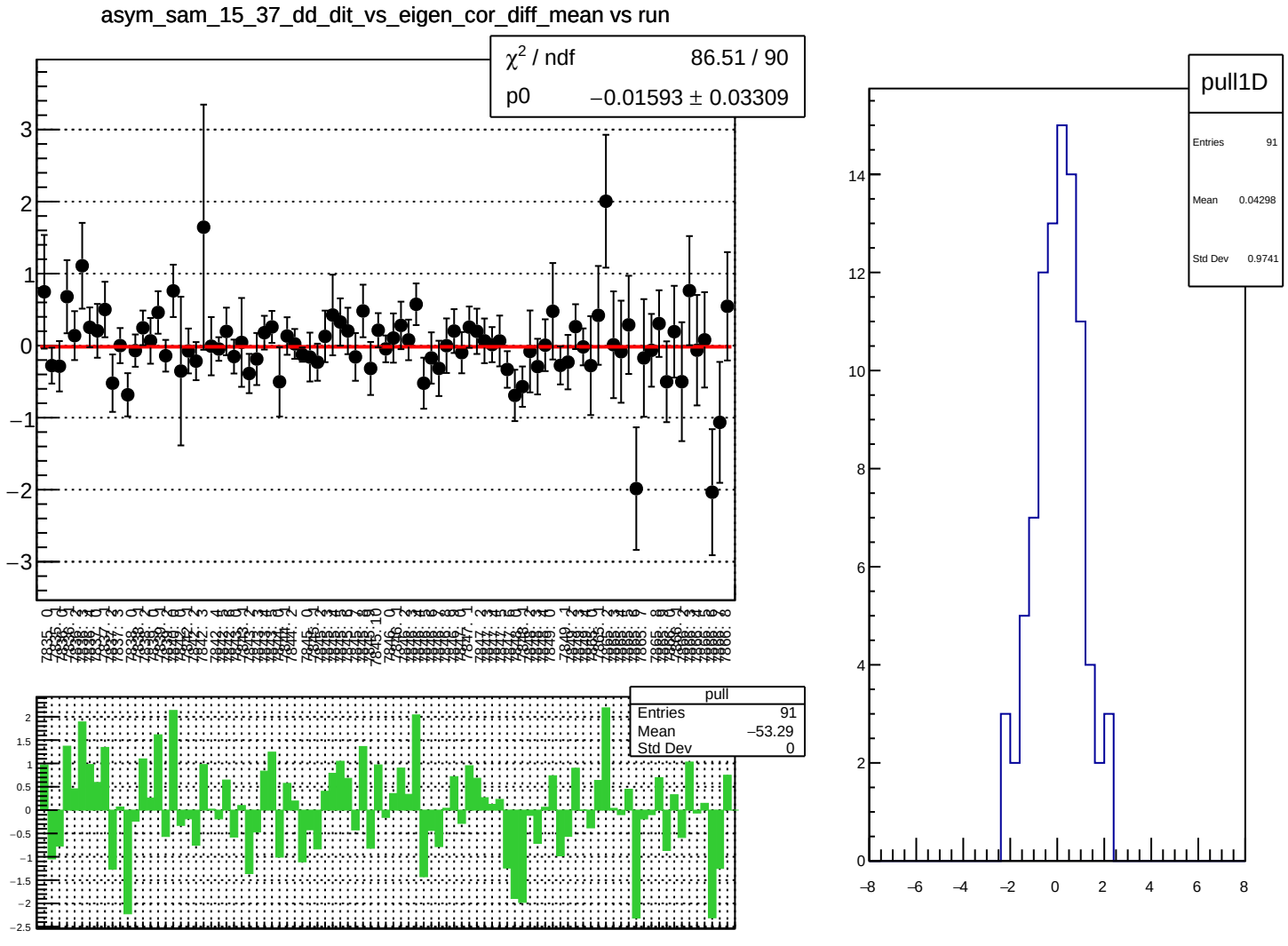

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 90
p0 −7.698e−14 ± 1.804e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 17.65
Std Dev 0

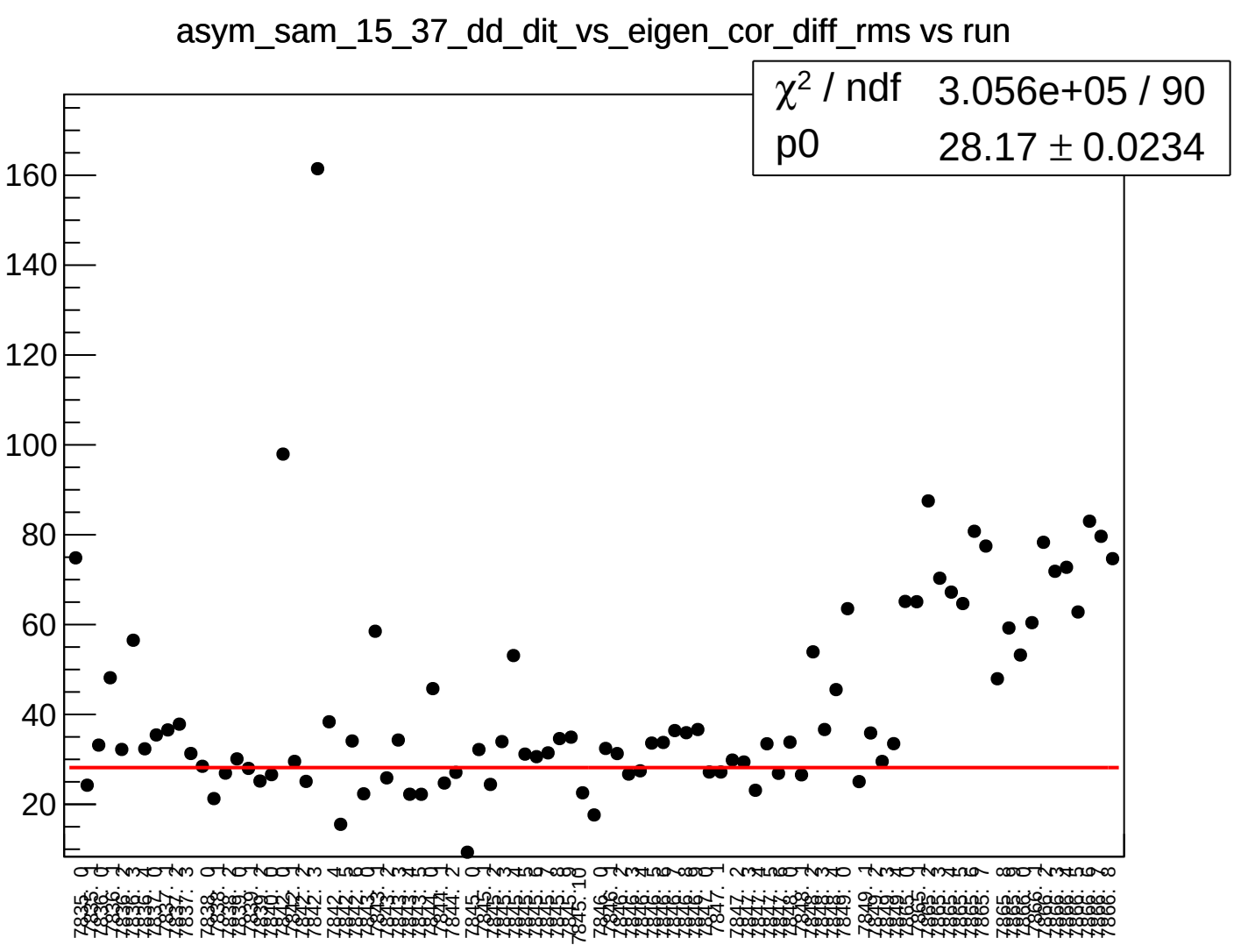

pull1D
Entries 91
Mean −0.04604
Std Dev 1.074

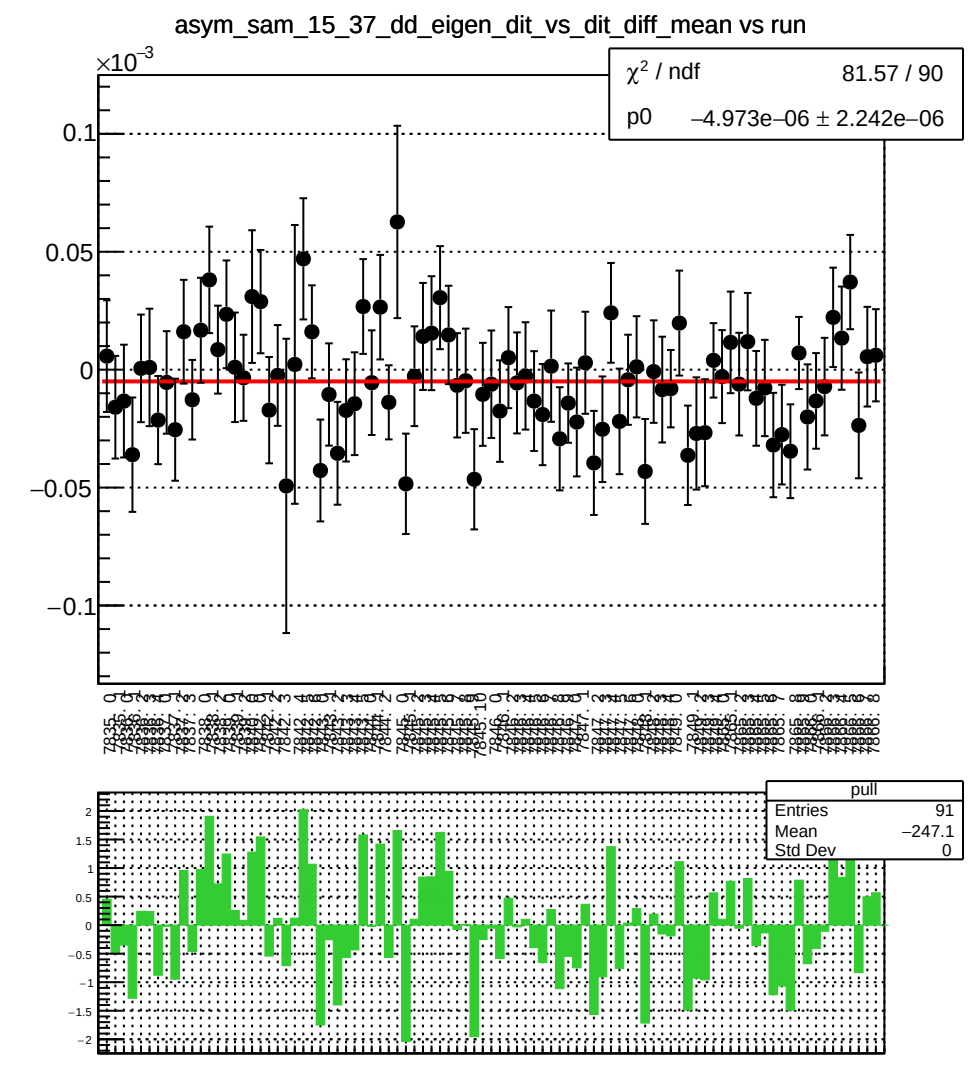

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.292e+06 / 90
p0 8.68e−11 ± 1.275e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

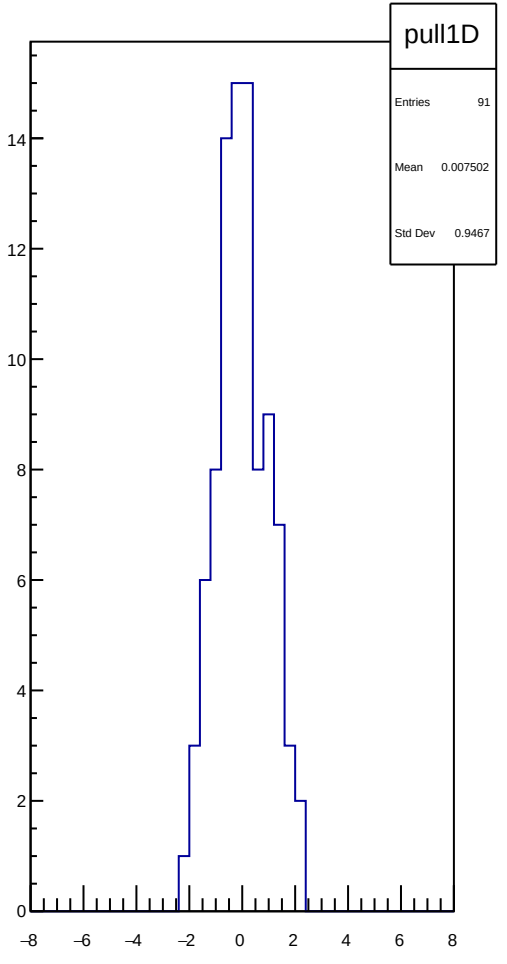

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 −0.01593 ± 0.03309
pull
Entries 91
Mean −53.29
Std Dev 0
pull1D
Entries 91
Mean 0.04298
Std Dev 0.9741

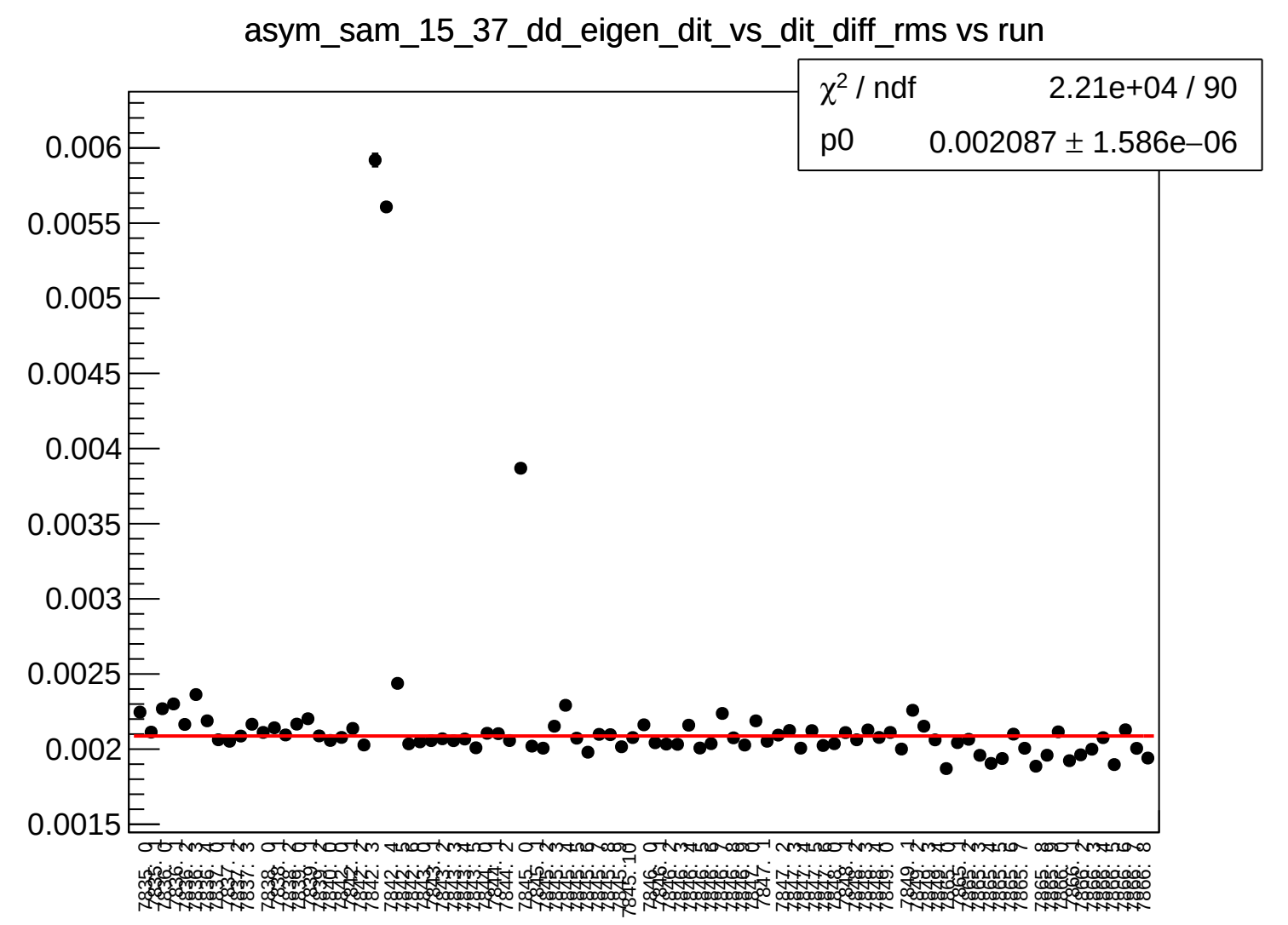

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 90
p0 28.17 ± 0.0234
160
140
120
100
80
60
40
20

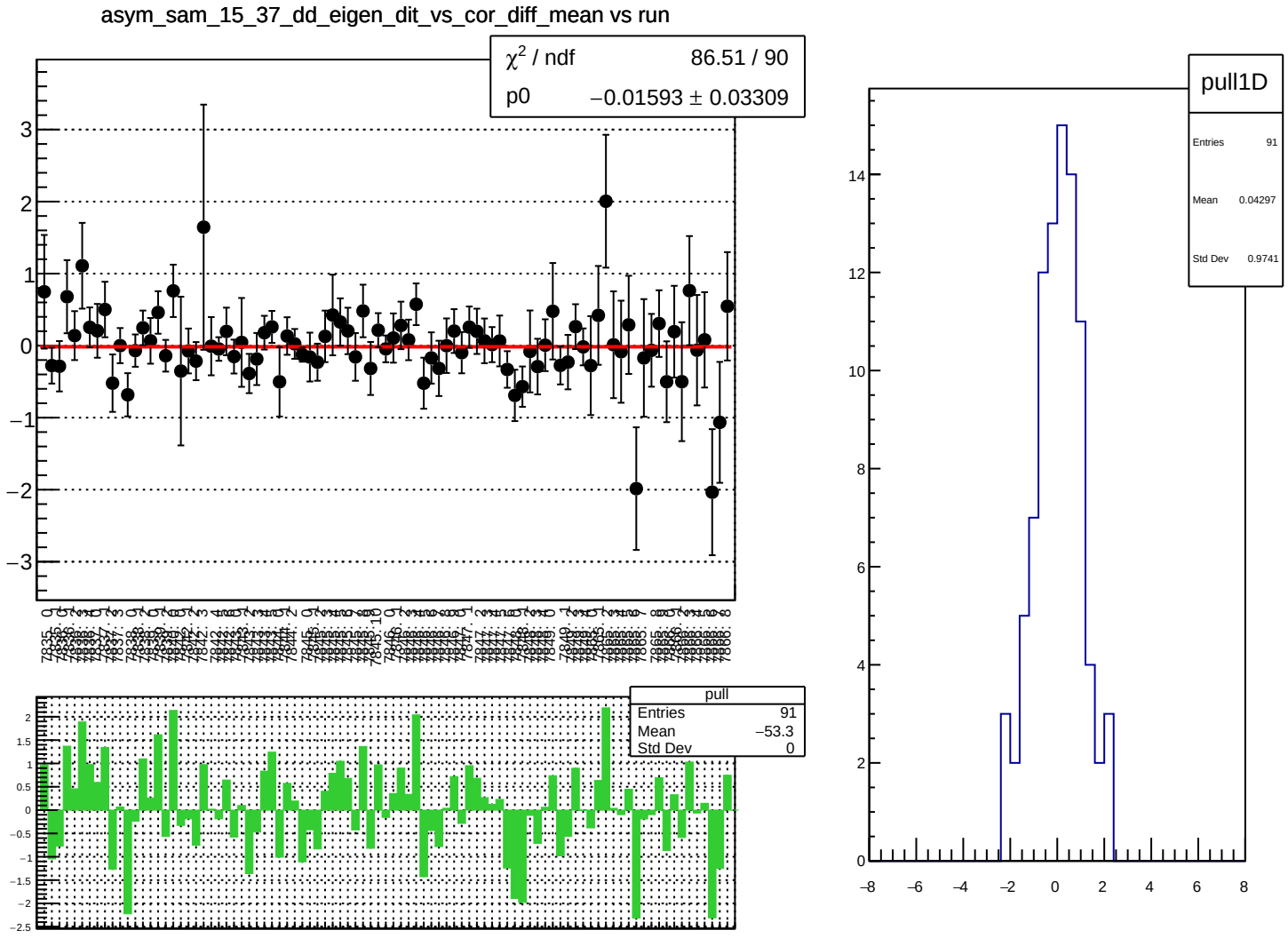

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 −0.01593 ± 0.03309
pull
Entries 91
Mean −53.29
Std Dev 0
pull1D
Entries 91
Mean 0.04298
Std Dev 0.9741

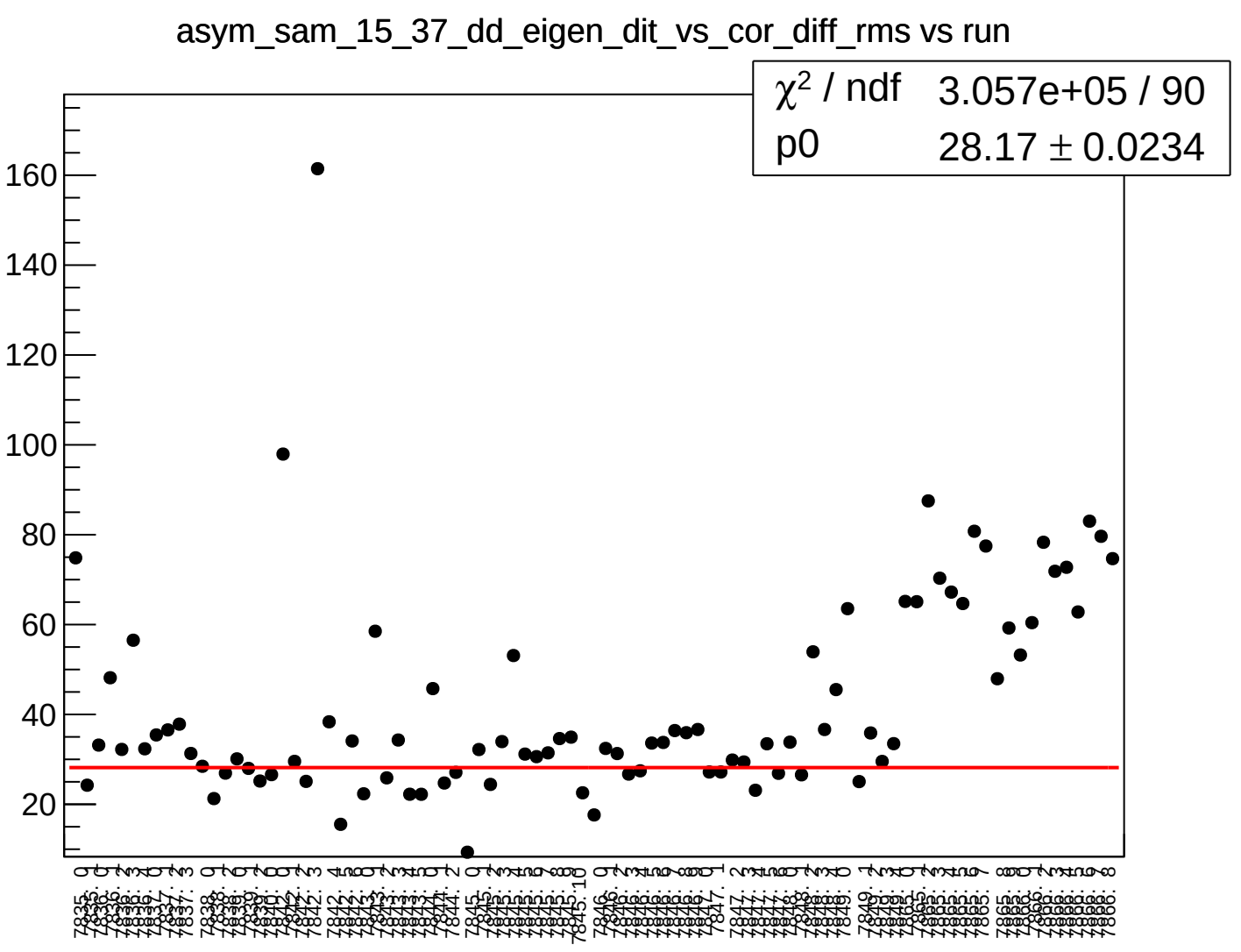

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 90
p0 28.17 ± 0.0234
160
140
120
100
80
60
40
20

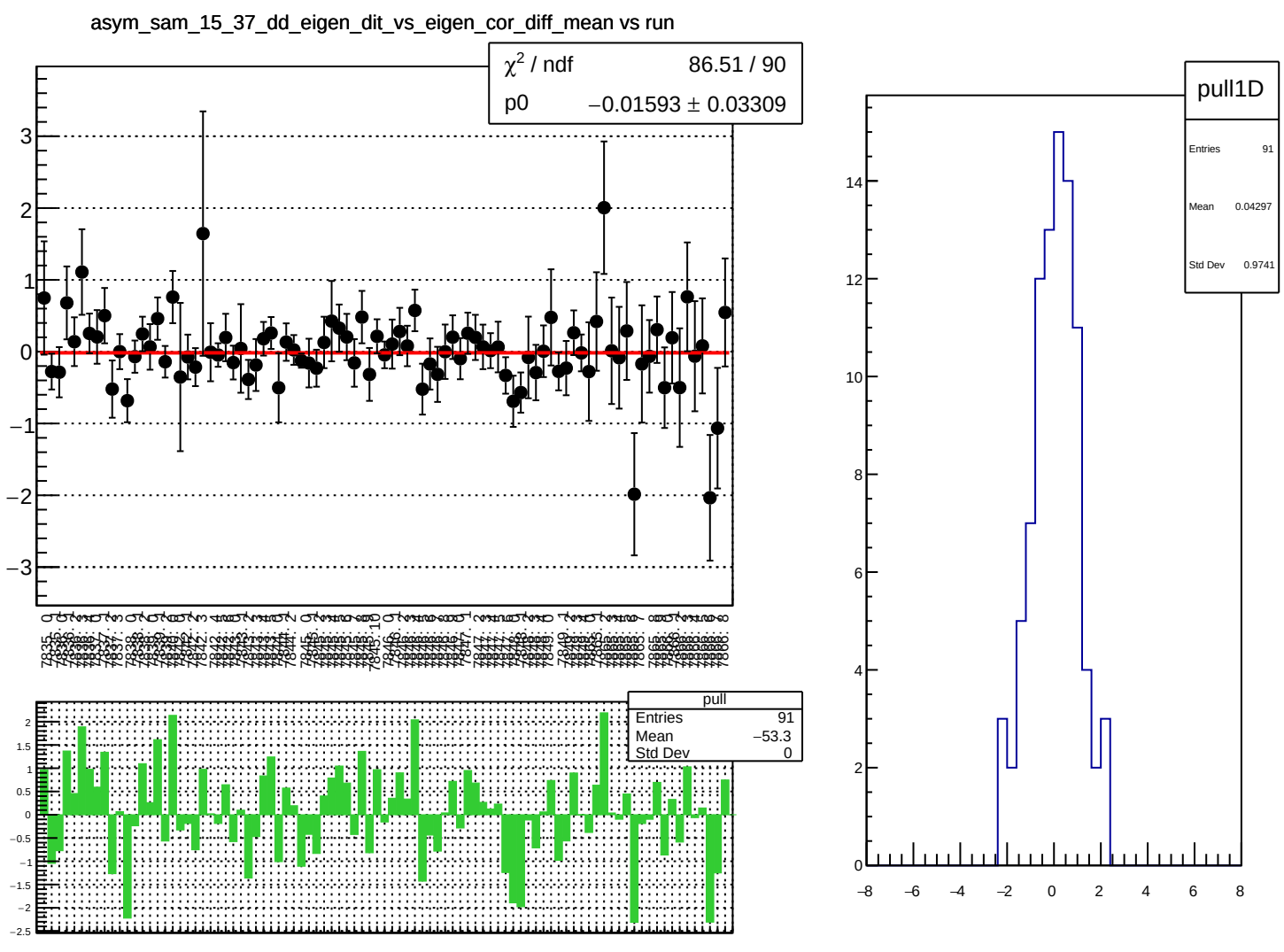

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.57 / 90
p0 −4.973e−06 ± 2.242e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −247.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

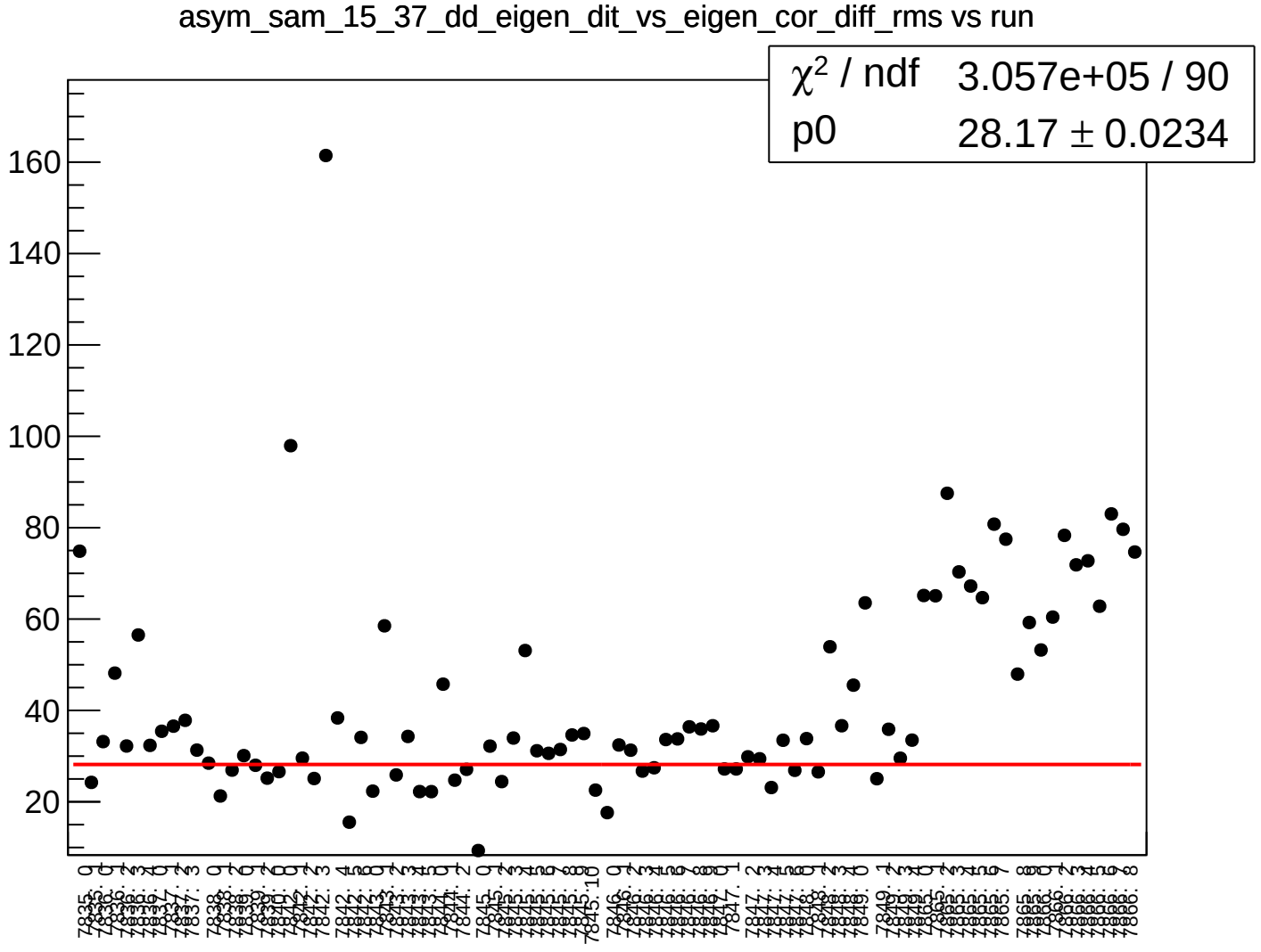

pull1D
Entries 91
Mean 0.007502
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

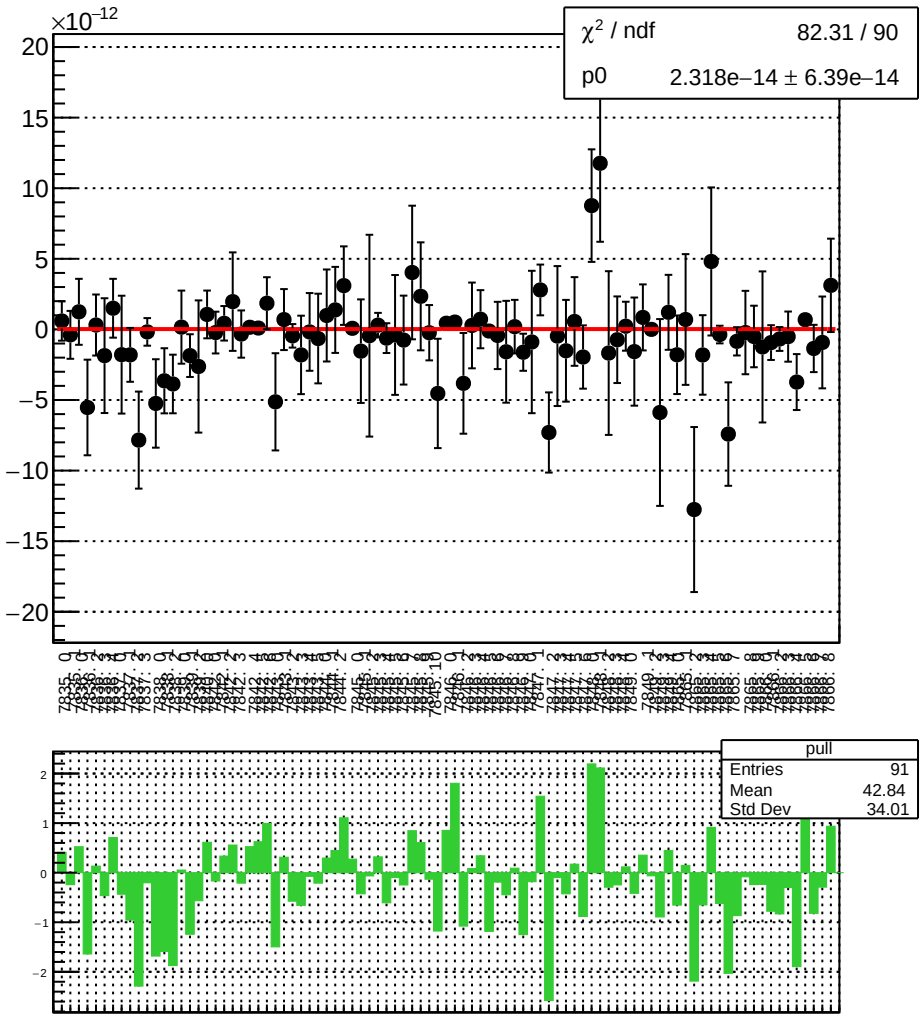

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.21e+04 / 90
p0 0.002087 ± 1.586e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

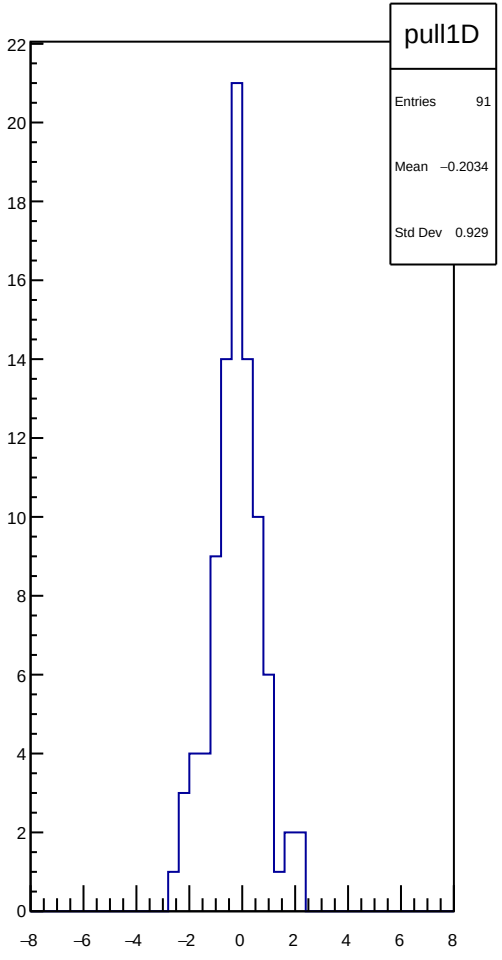

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 −0.01593 ± 0.03309
pull
Entries 91
Mean −53.3
Std Dev 0
pull1D
Entries 91
Mean 0.04297
Std Dev 0.9741

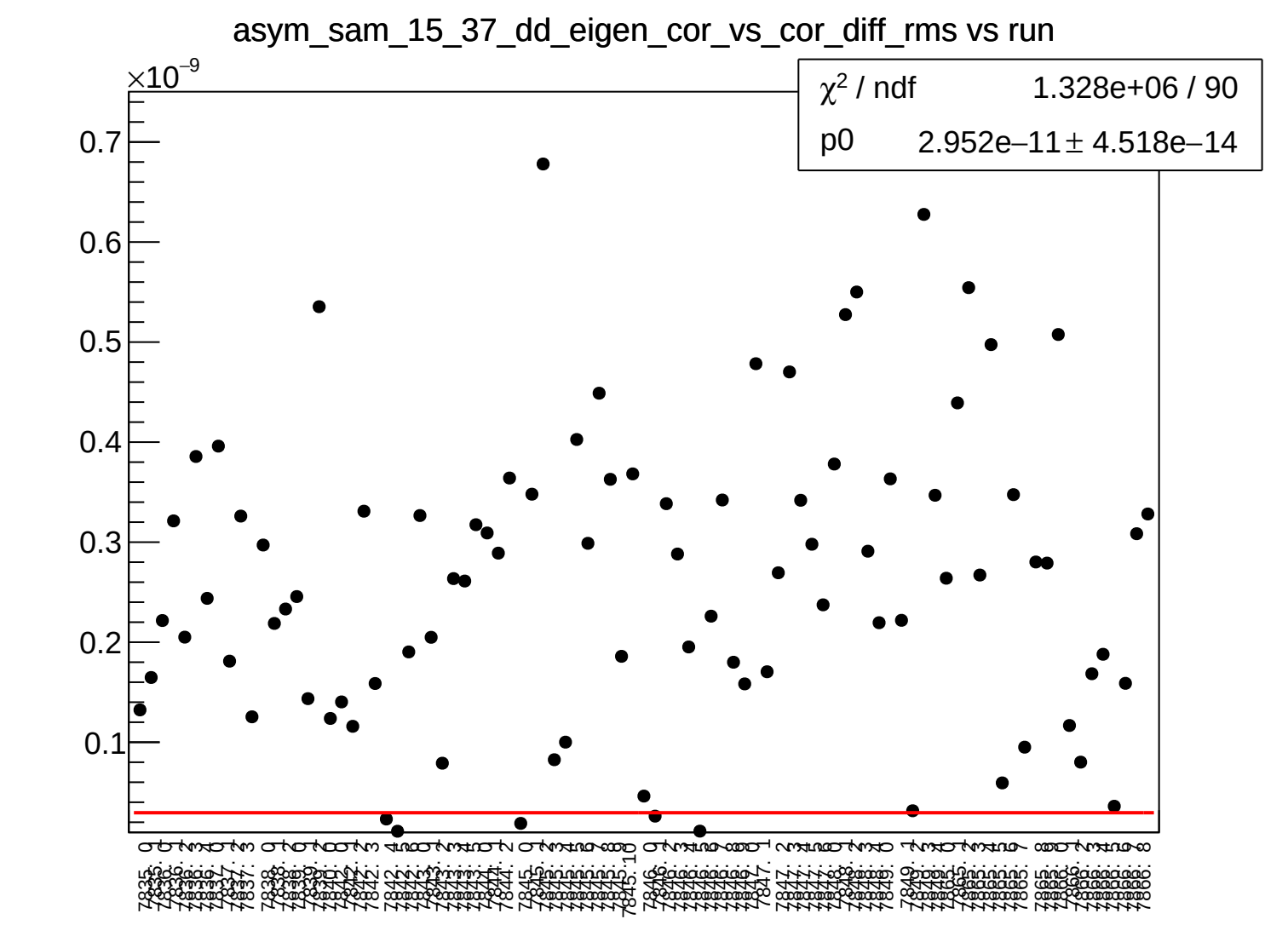

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.057e+05 / 90
p0 28.17 ± 0.0234
160
140
120
100
80
60
40
20

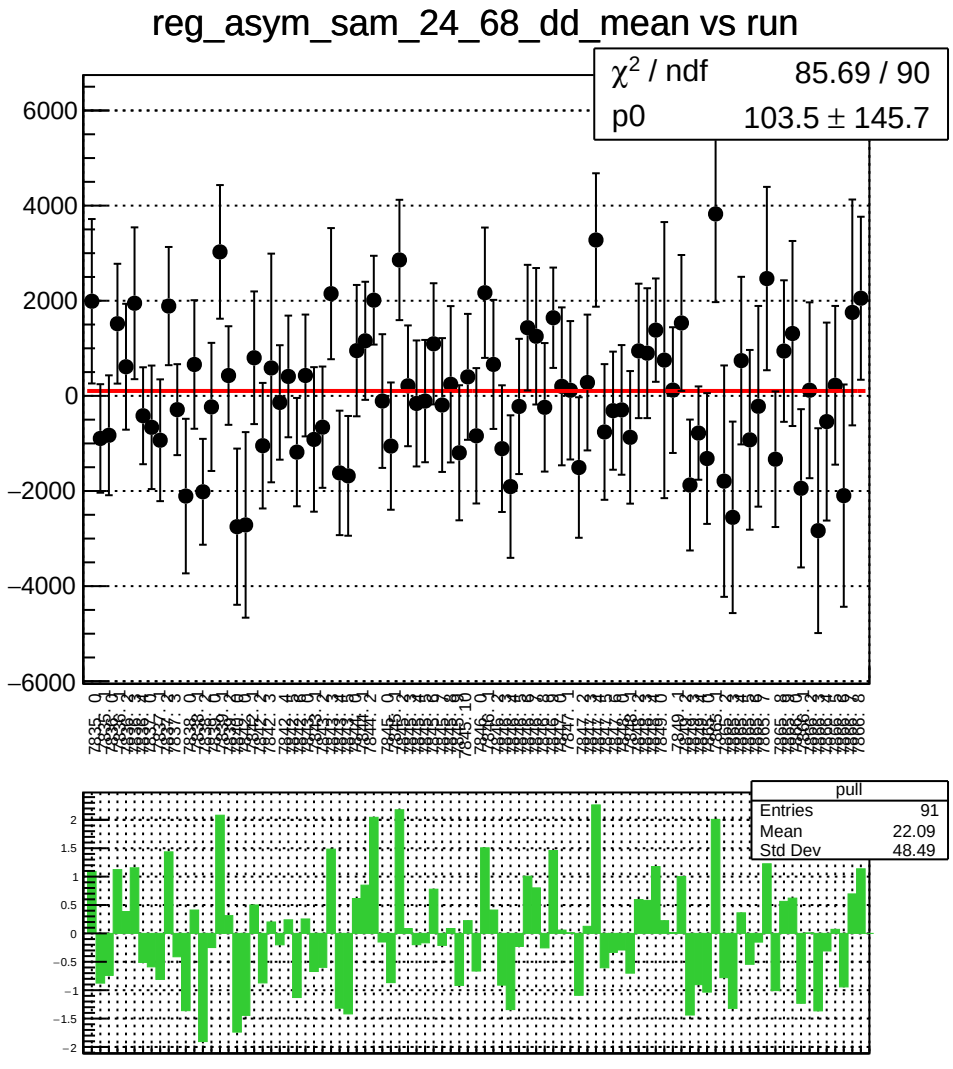

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 −0.01593 ± 0.03309
pull
Entries 91
Mean −53.3
Std Dev 0
pull1D
Entries 91
Mean 0.04297
Std Dev 0.9741

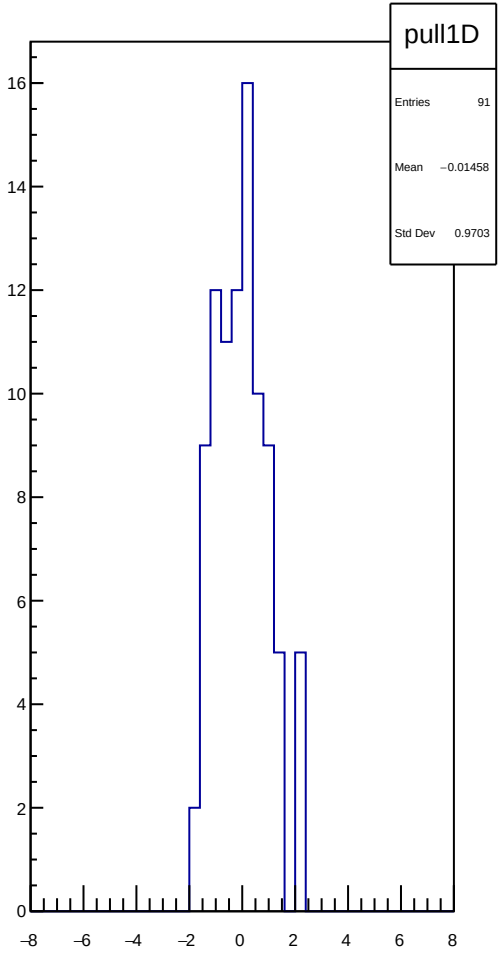

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.057e+05 / 90
p0 28.17 ± 0.0234
160
140
120
100
80
60
40
20

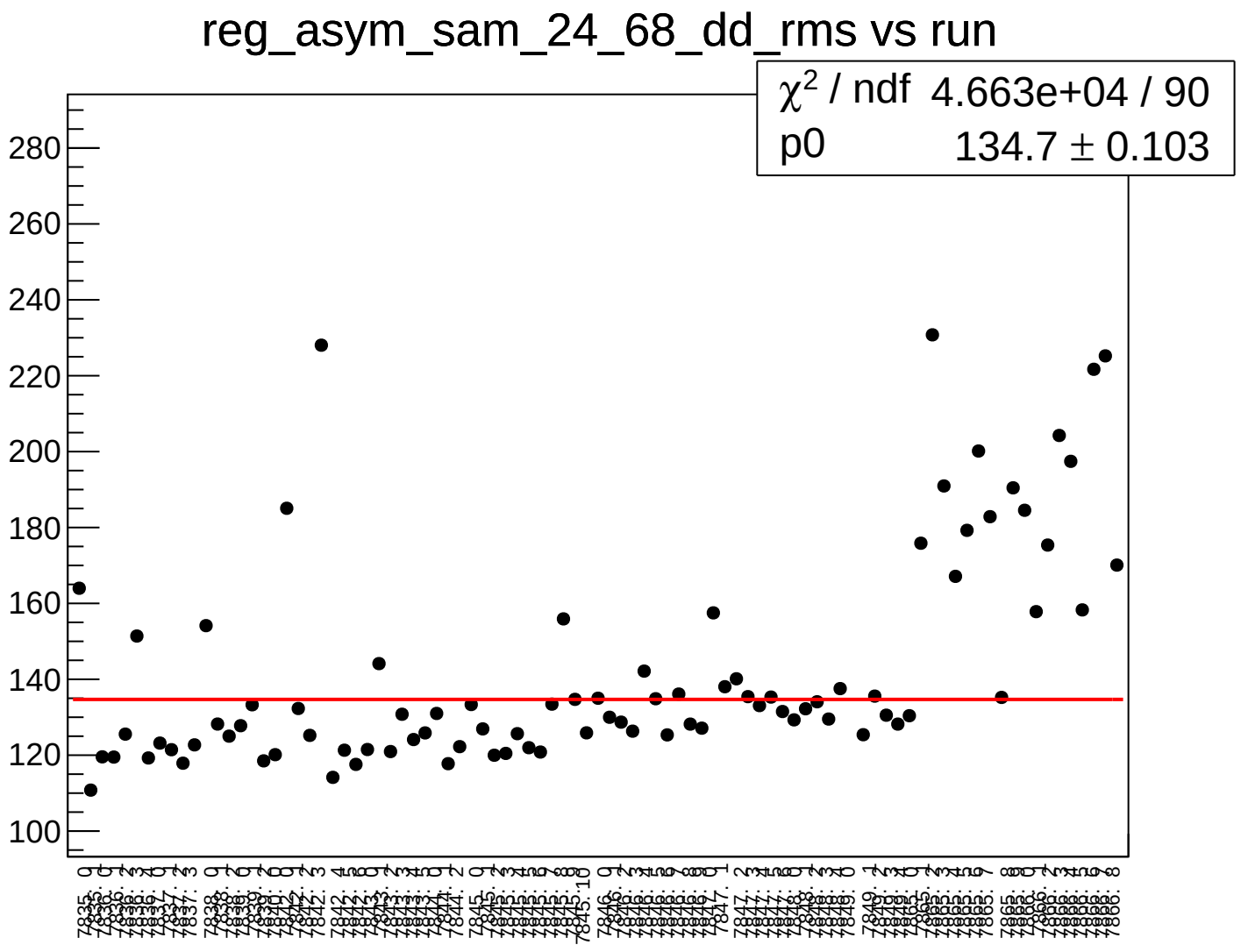

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.31 / 90
p0 2.318e−14 ± 6.39e−14
pull
Entries 91
Mean 42.84
Std Dev 34.01

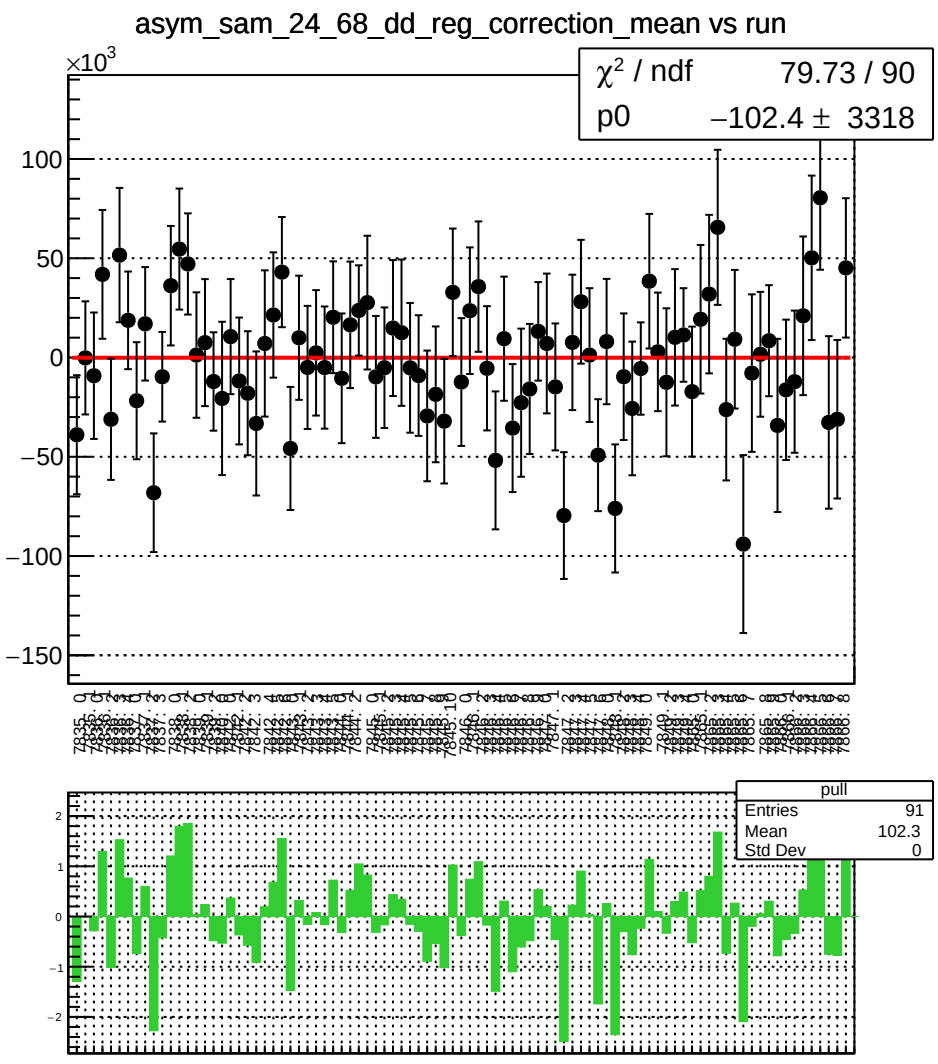

pull1D
Entries 91
Mean −0.2034
Std Dev 0.929

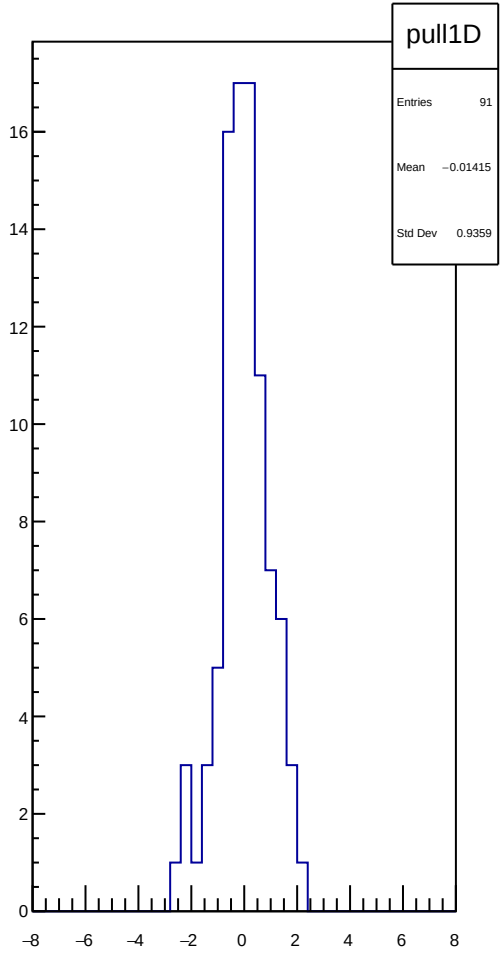

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.328e+06 / 90
p0 2.952e−11 ± 4.518e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

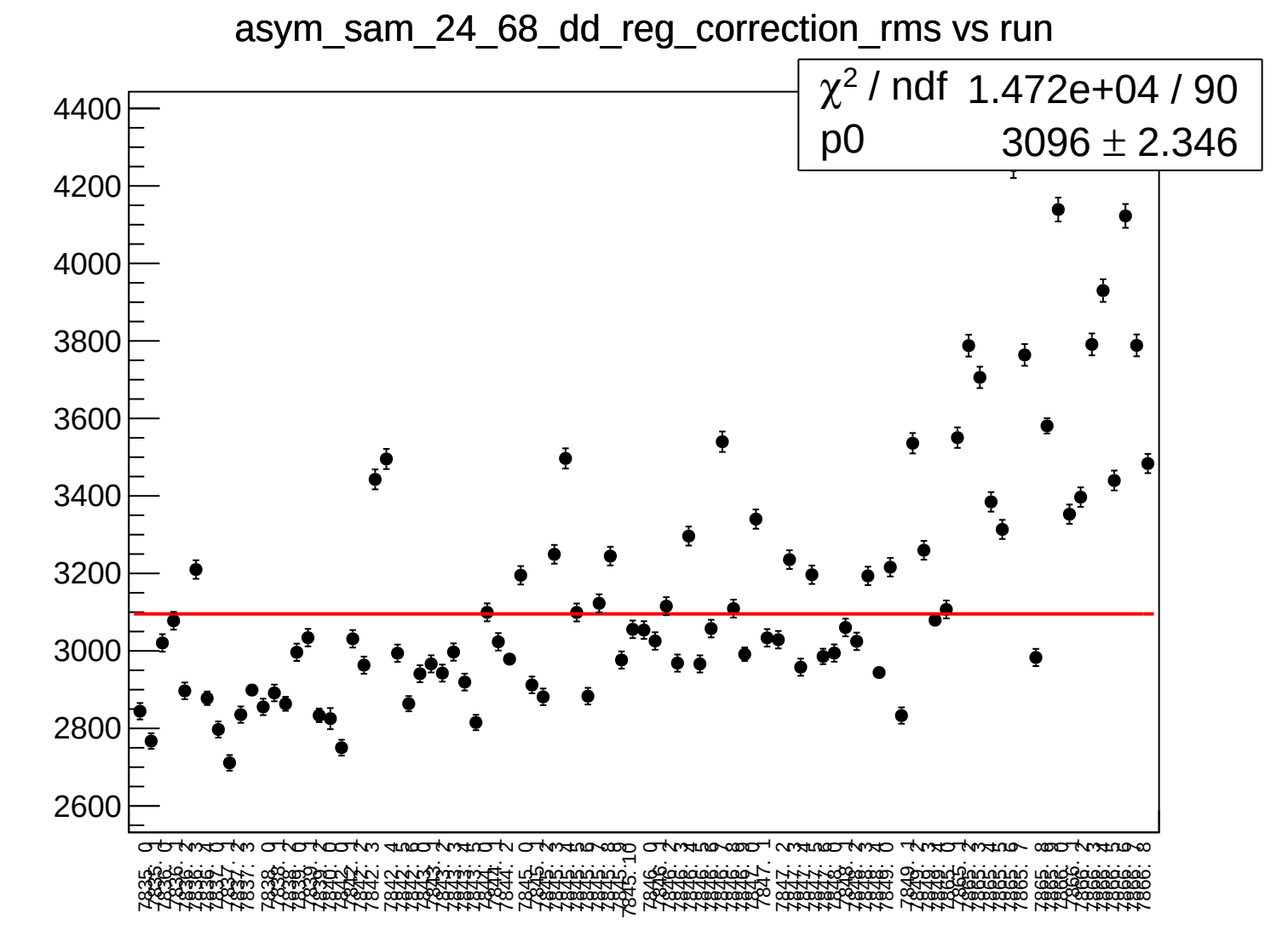

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.69 / 90
p0 103.5 ± 145.7
pull
Entries 91
Mean 22.09
Std Dev 48.49

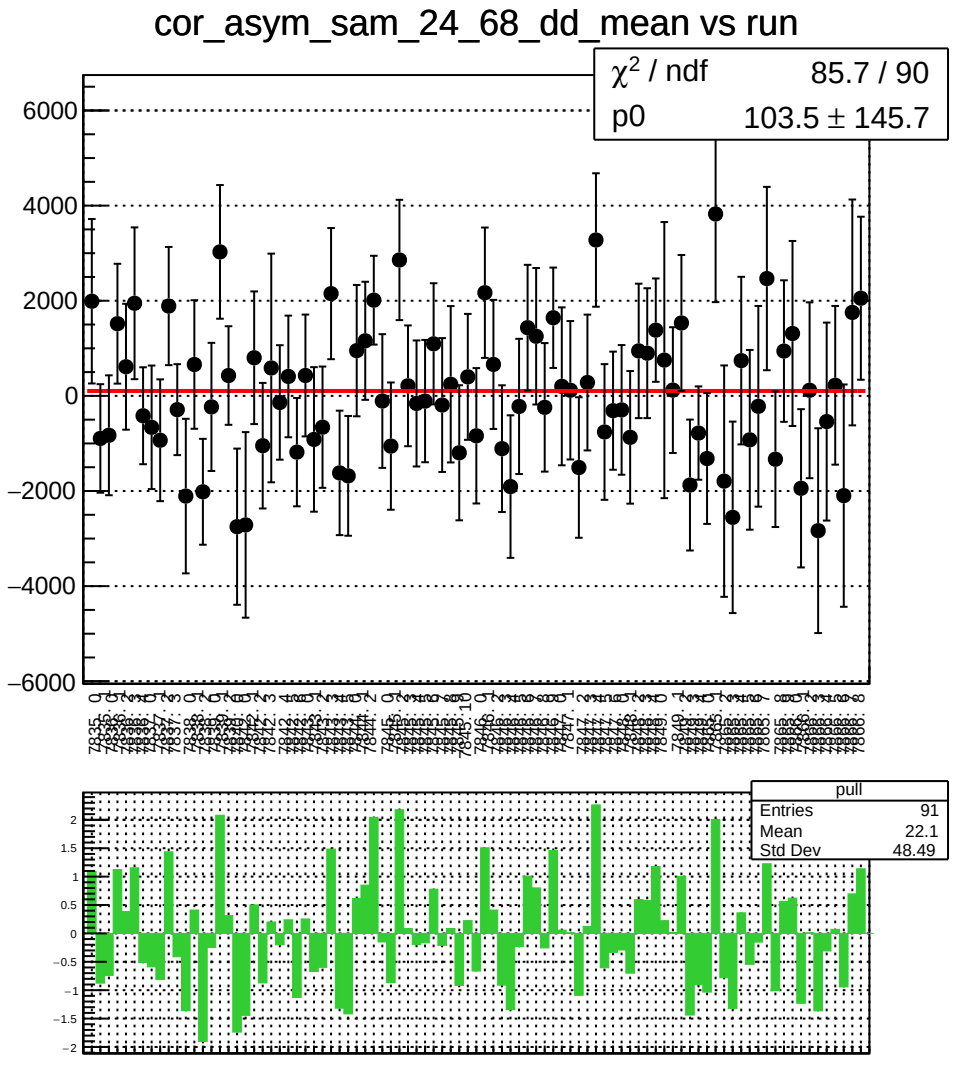

pull1D
Entries 91
Mean −0.01458
Std Dev 0.9703

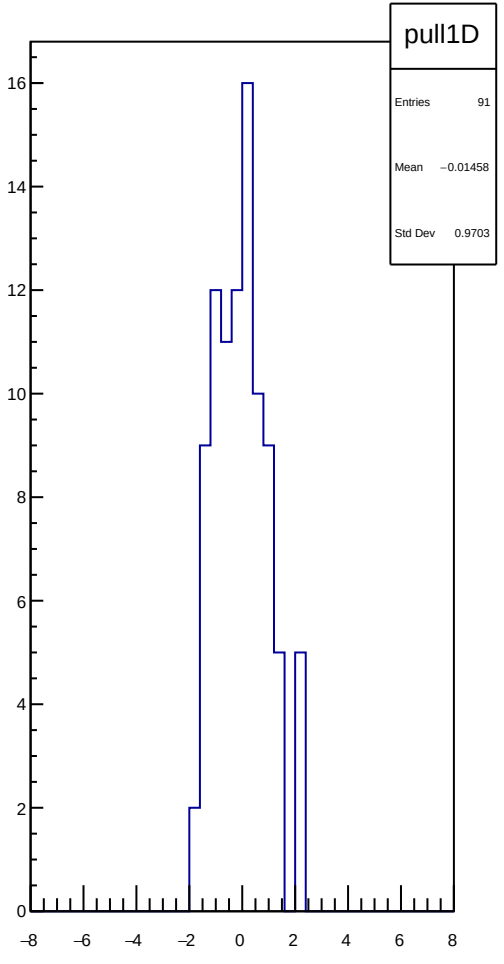

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 4.663e+04 / 90
p0 134.7 ± 0.103
280
260
240
220
200
180
160
140
120
100

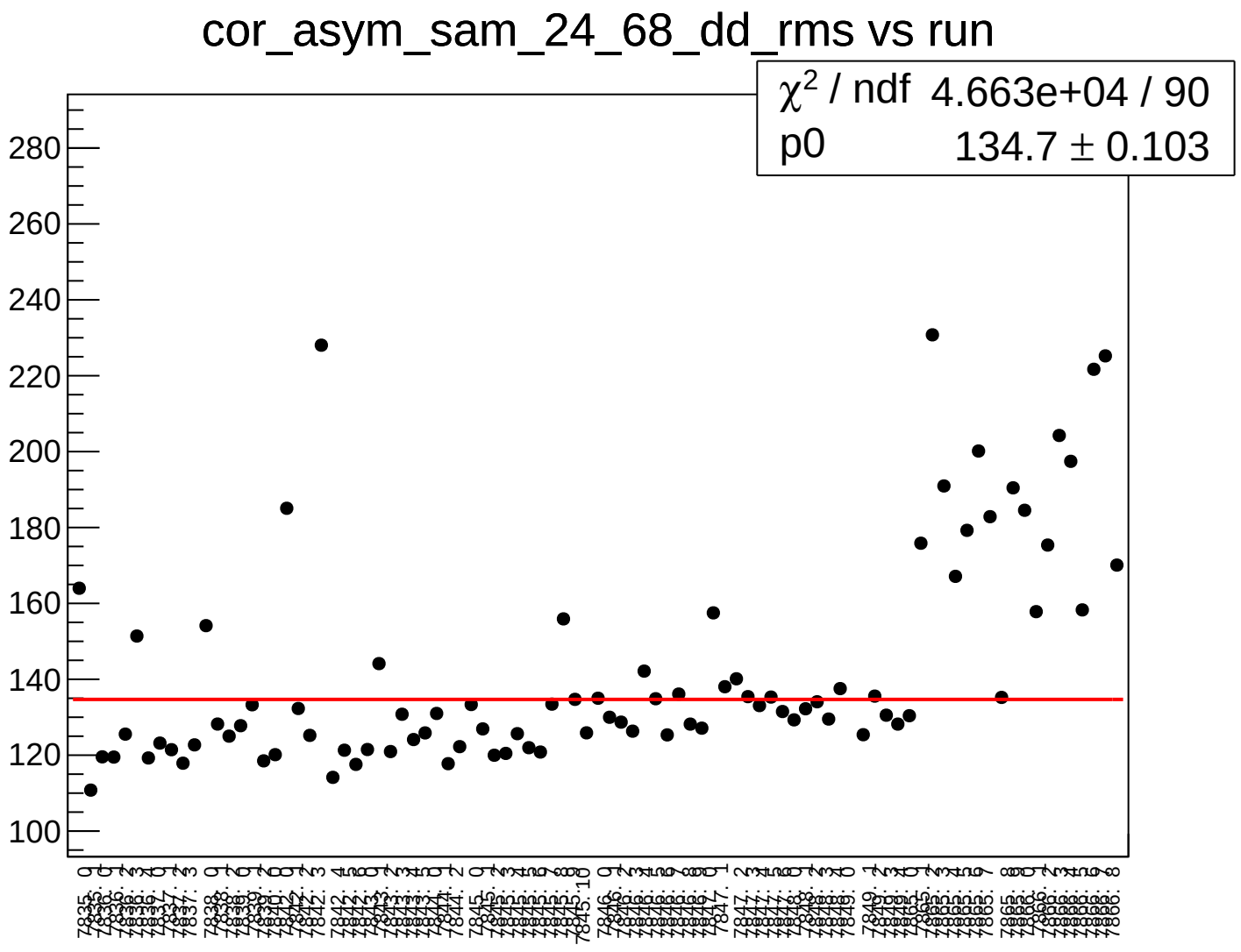

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.73 / 90
p0 −102.4 ± 3318
100
50
0
−50
−100
−150
pull
Entries 91
Mean 102.3
Std Dev 0
2
1
0
−1
−2

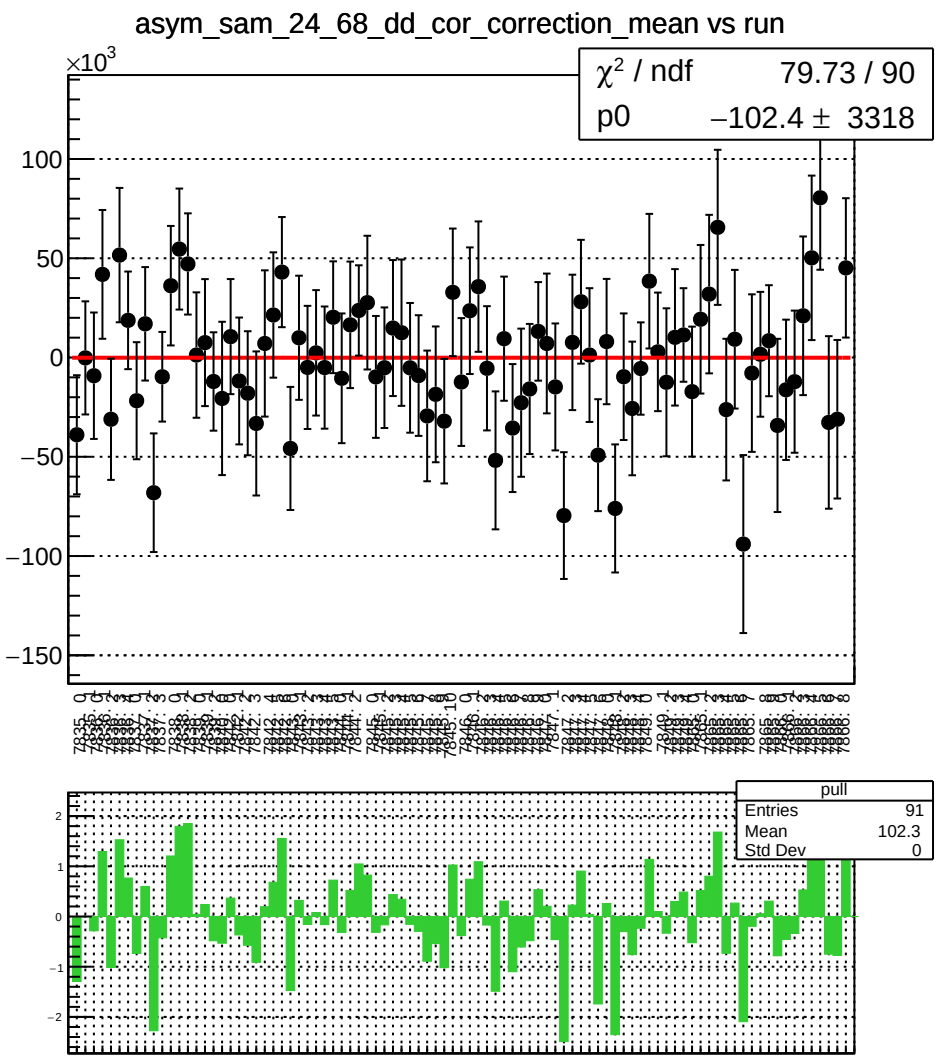

pull1D
Entries 91
Mean −0.01415
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

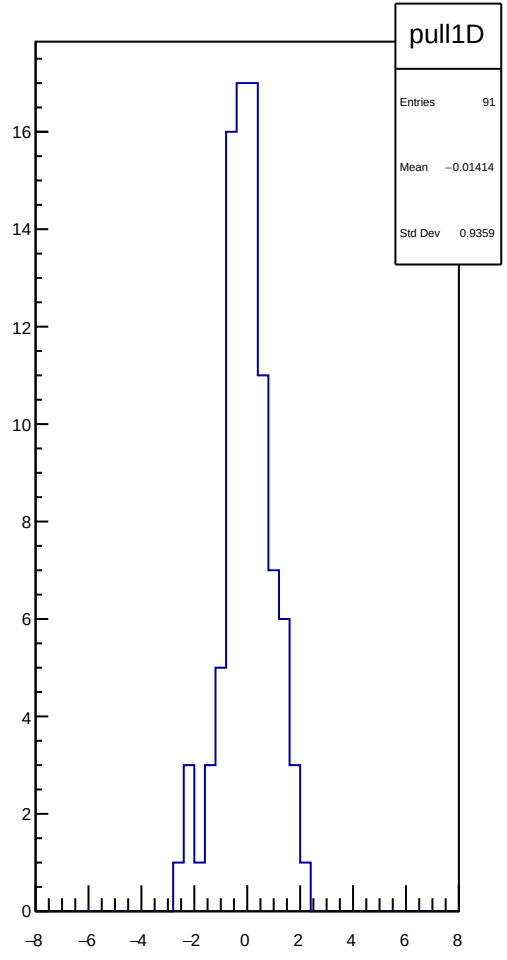

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.472e+04 / 90
p0 3096 ± 2.346
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

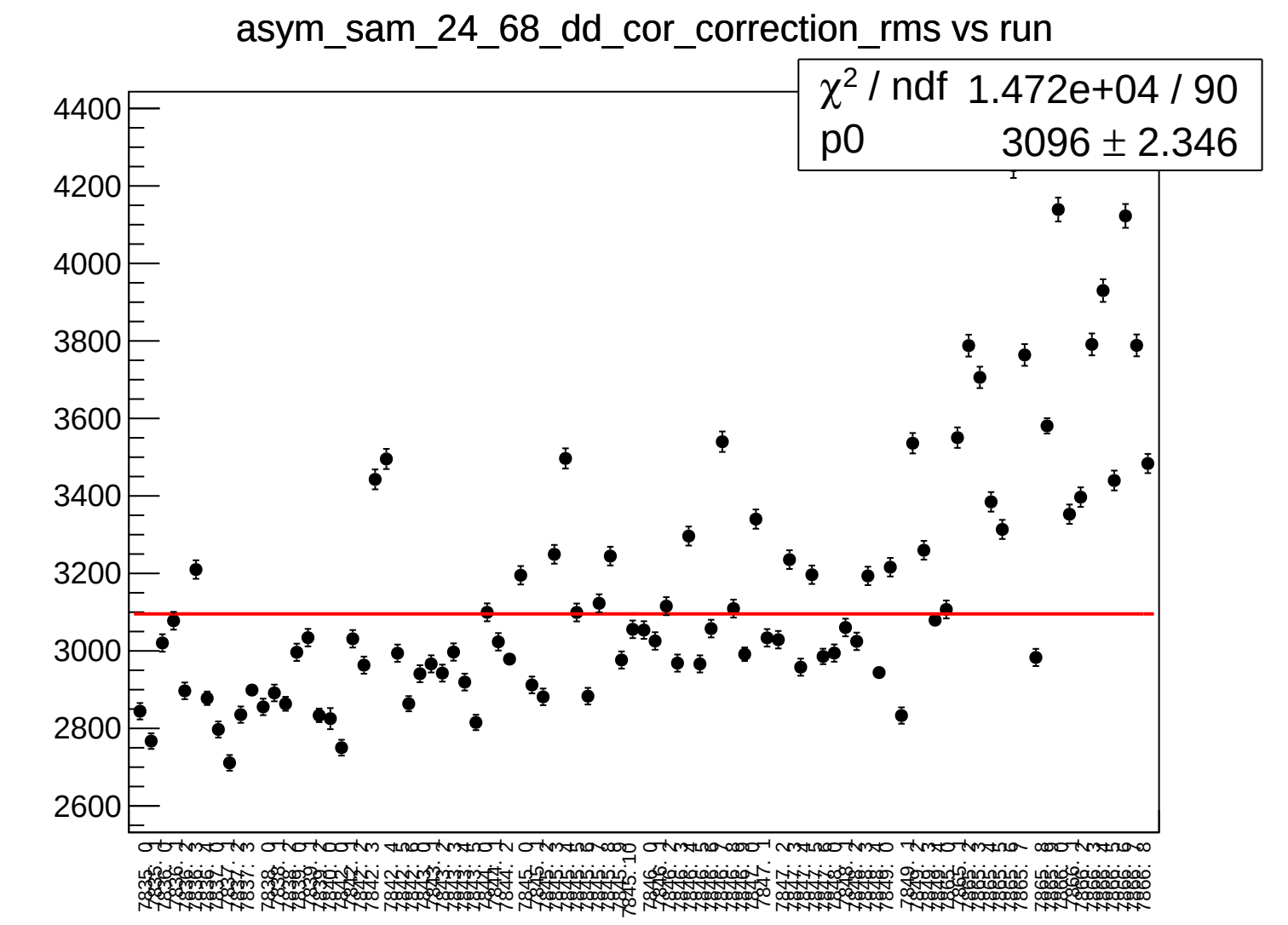

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.7 / 90
p0 103.5 ± 145.7
pull
Entries 91
Mean 22.1
Std Dev 48.49

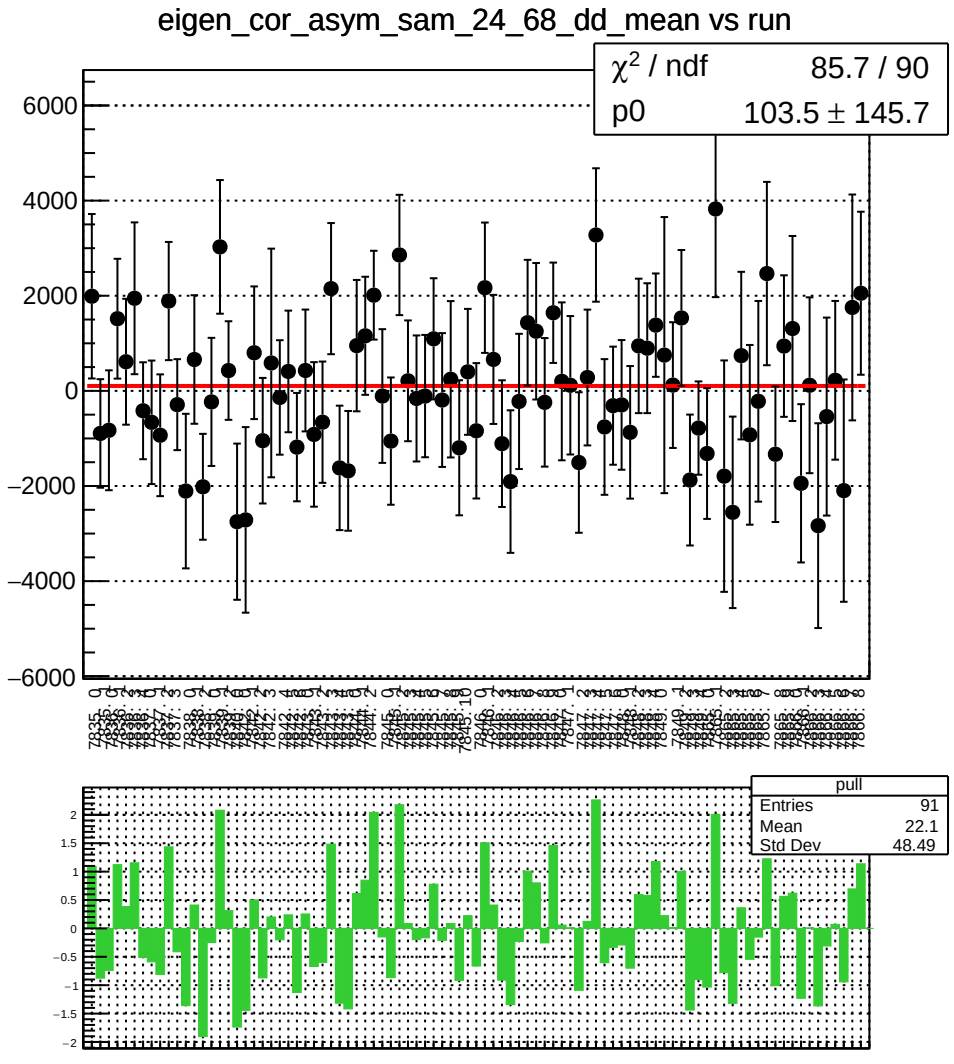

pull1D
Entries 91
Mean −0.01458
Std Dev 0.9703

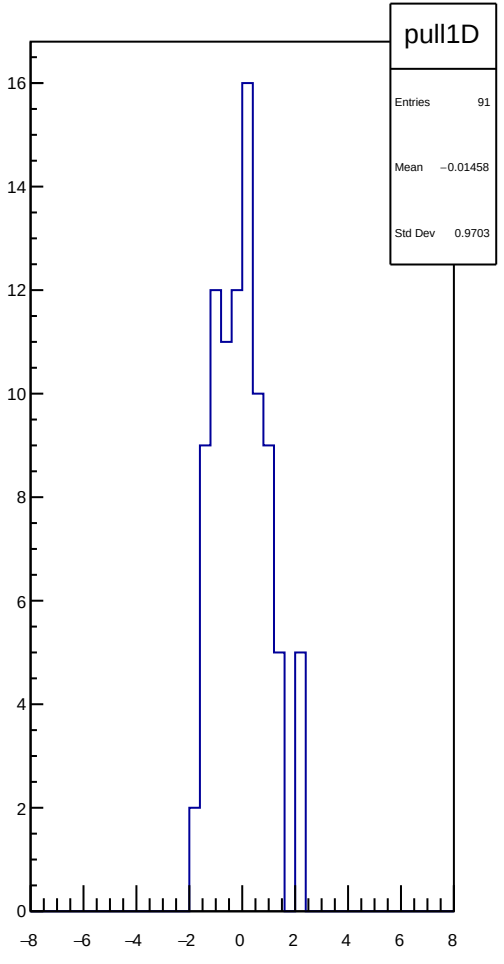

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 4.663e+04 / 90
p0 134.7 ± 0.103
280
260
240
220
200
180
160
140
120
100

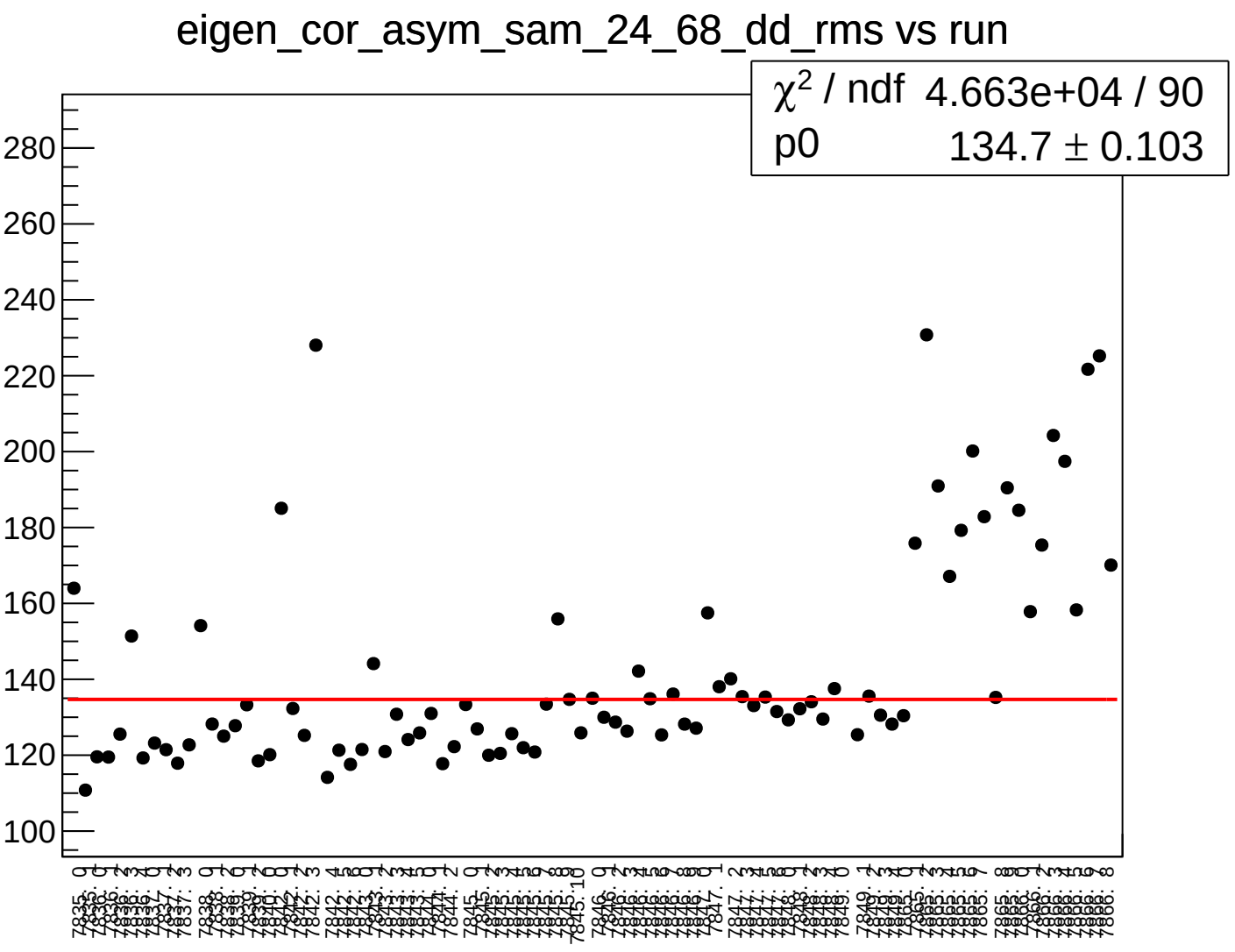

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 79.73 / 90
p0 −102.4 ± 3318
100
50
0
−50
−100
−150
pull
Entries 91
Mean 102.3
Std Dev 0
2
1
0
−1
−2

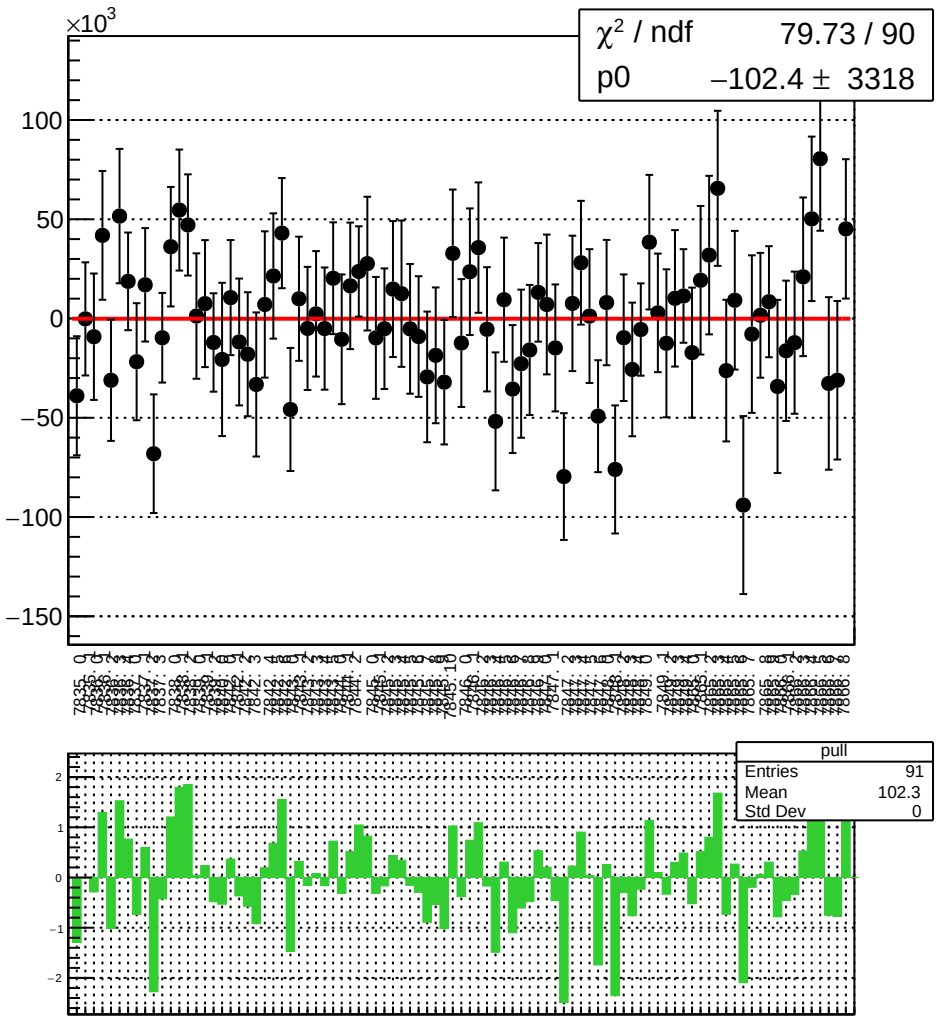

pull1D
Entries 91
Mean −0.01414
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

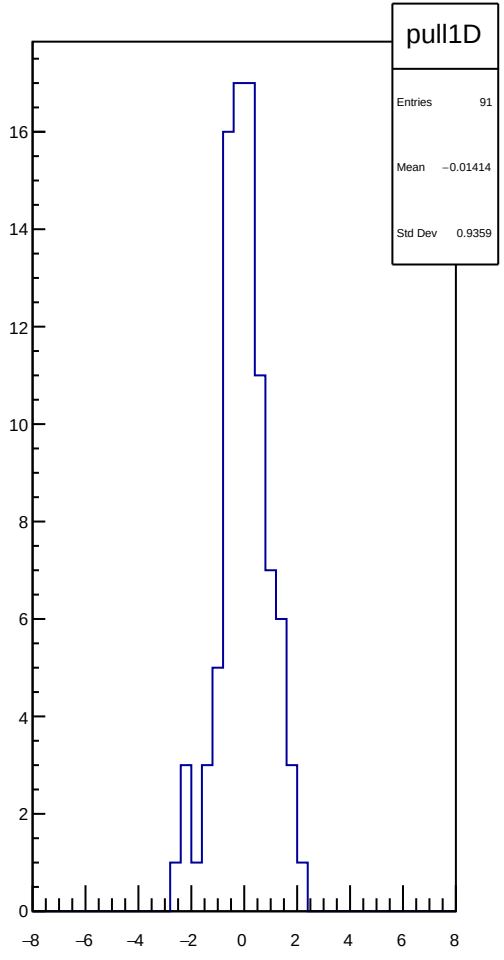

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.472e+04 / 90
p0 3096 ± 2.346
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

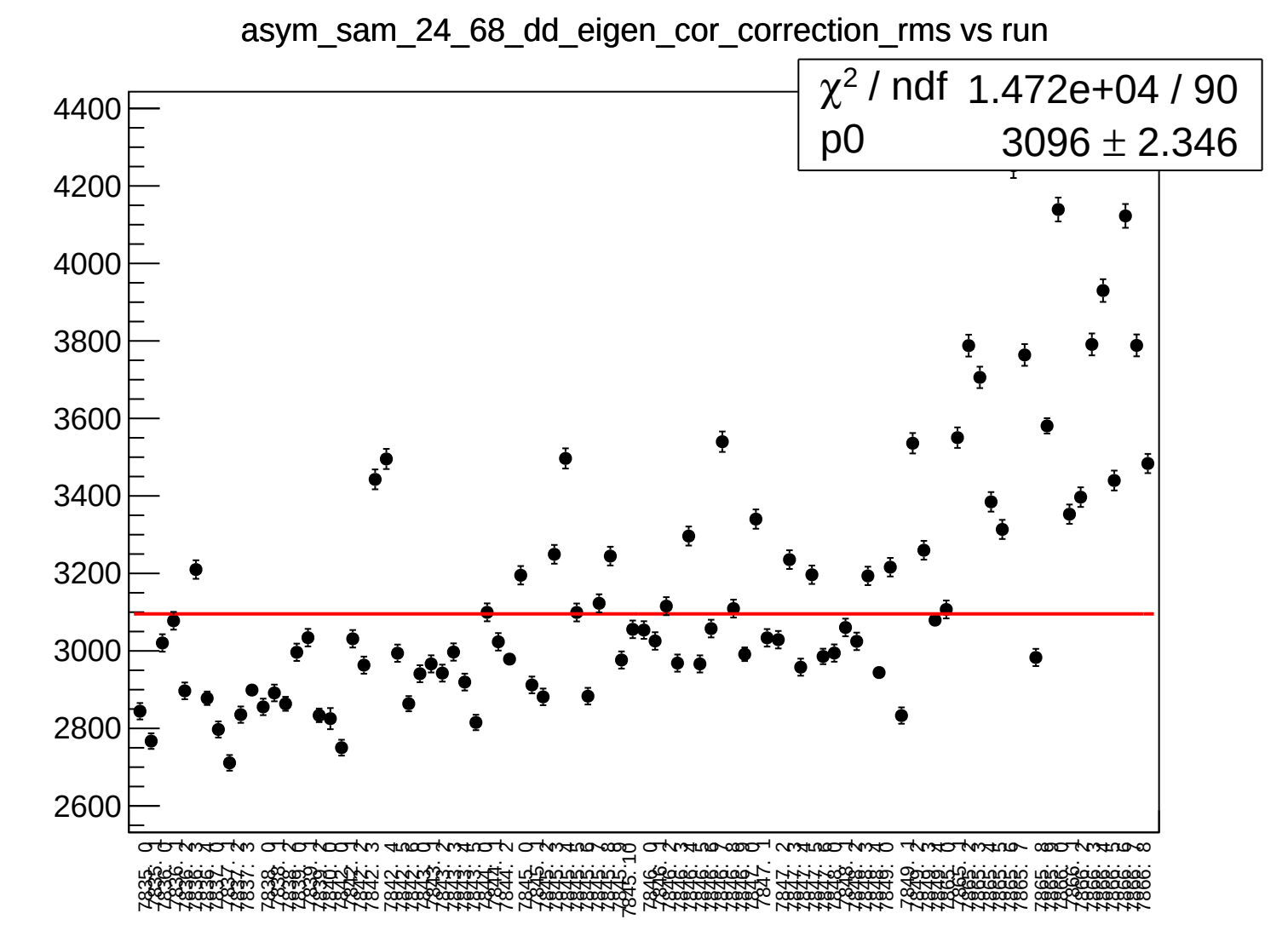

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.7 / 90
p0 103.5 ± 145.7
pull
Entries 91
Mean 22.1
Std Dev 48.49

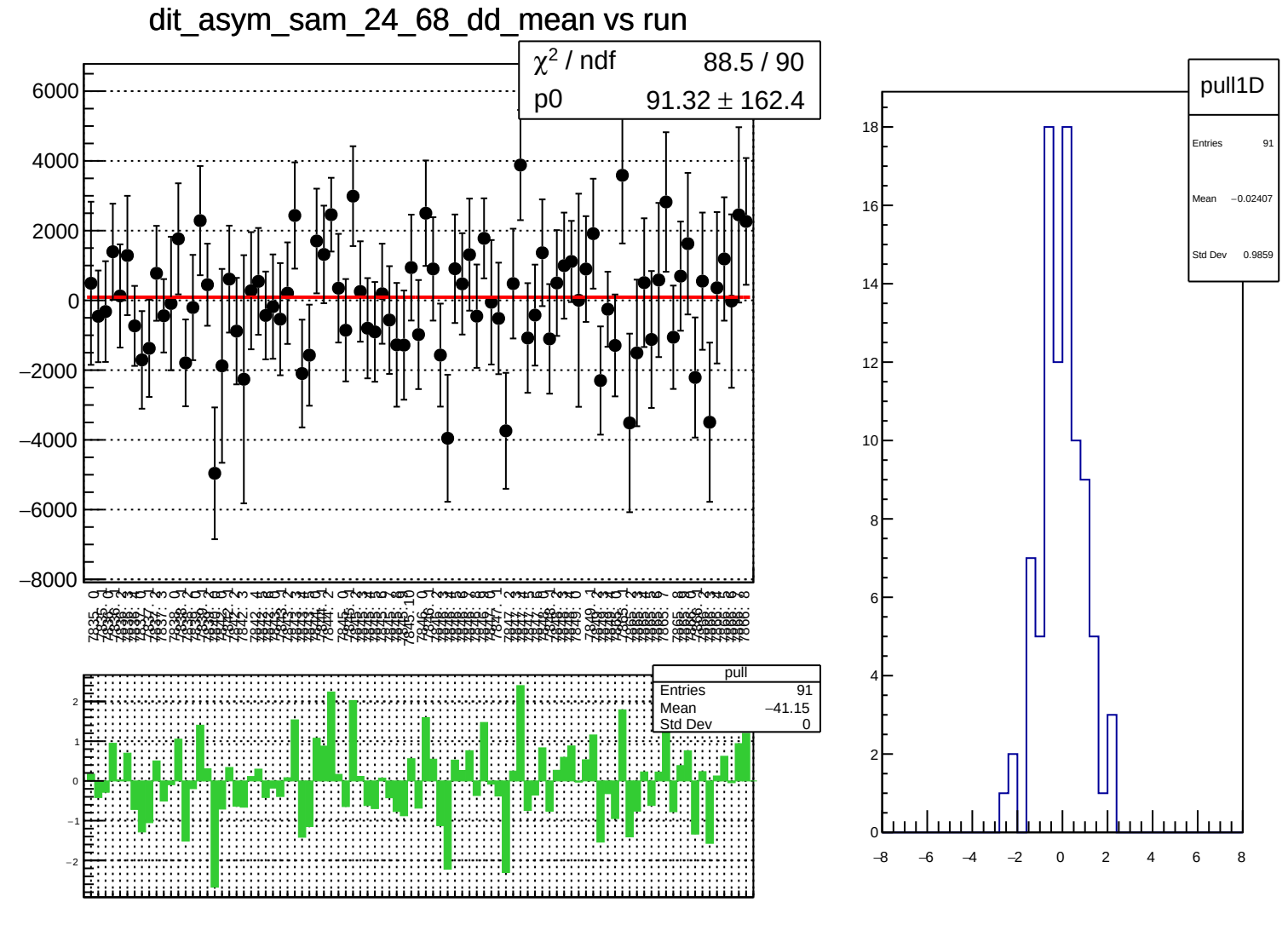

pull1D
Entries 91
Mean −0.01458
Std Dev 0.9703

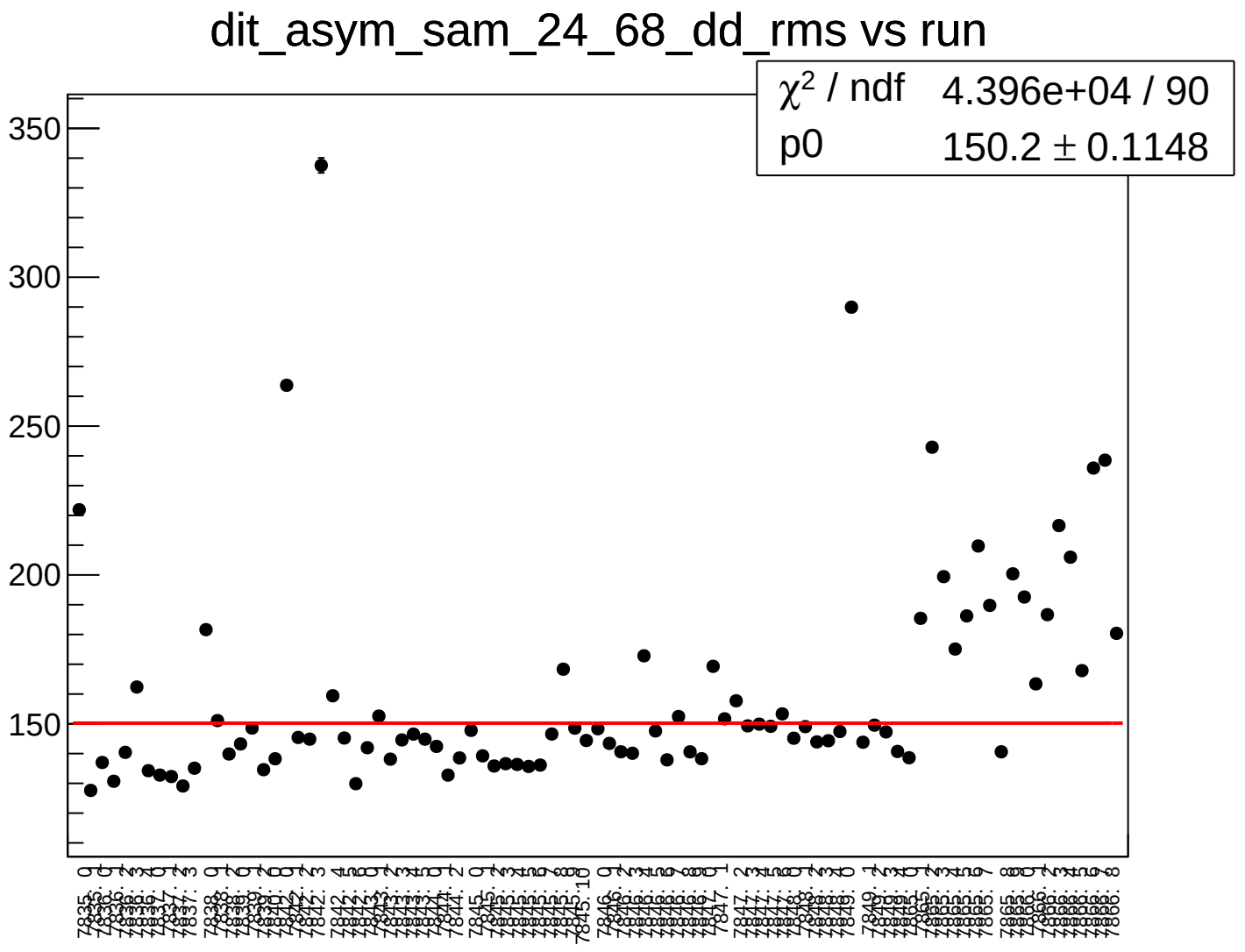

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4.663e+04 / 90
p0 134.7 ± 0.103
280
260
240
220
200
180
160
140
120
100

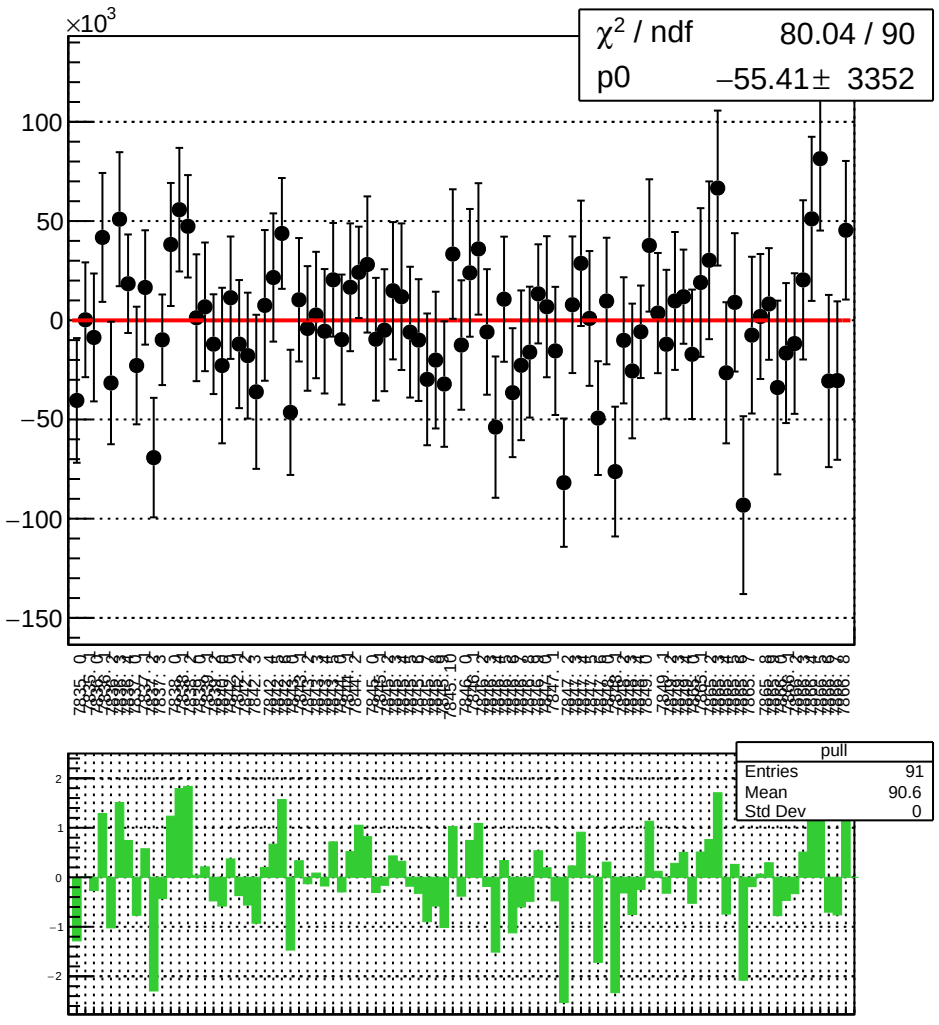

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.73 / 90
p0 −102.4 ± 3318
100
50
0
−50
−100
−150
pull
Entries 91
Mean 102.3
Std Dev 0
2
1
0
−1
−2

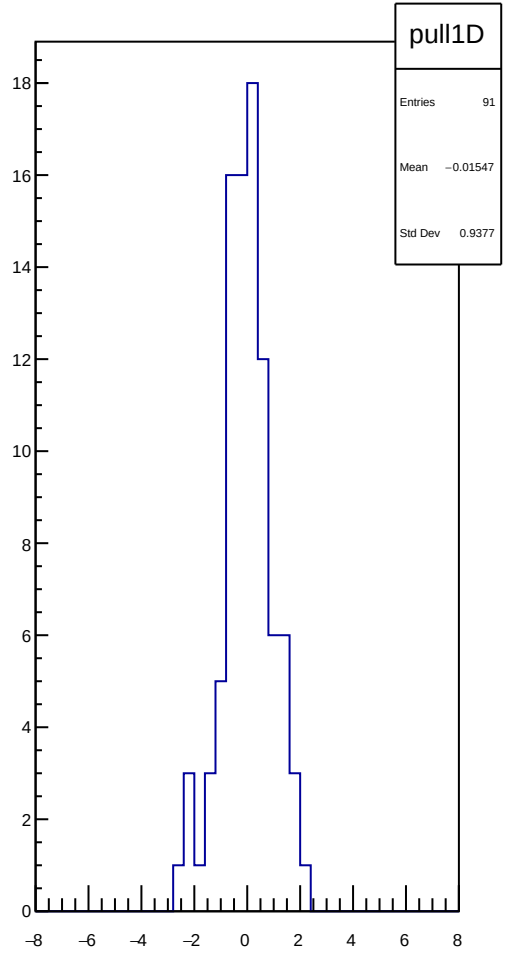

pull1D
Entries 91
Mean −0.01414
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

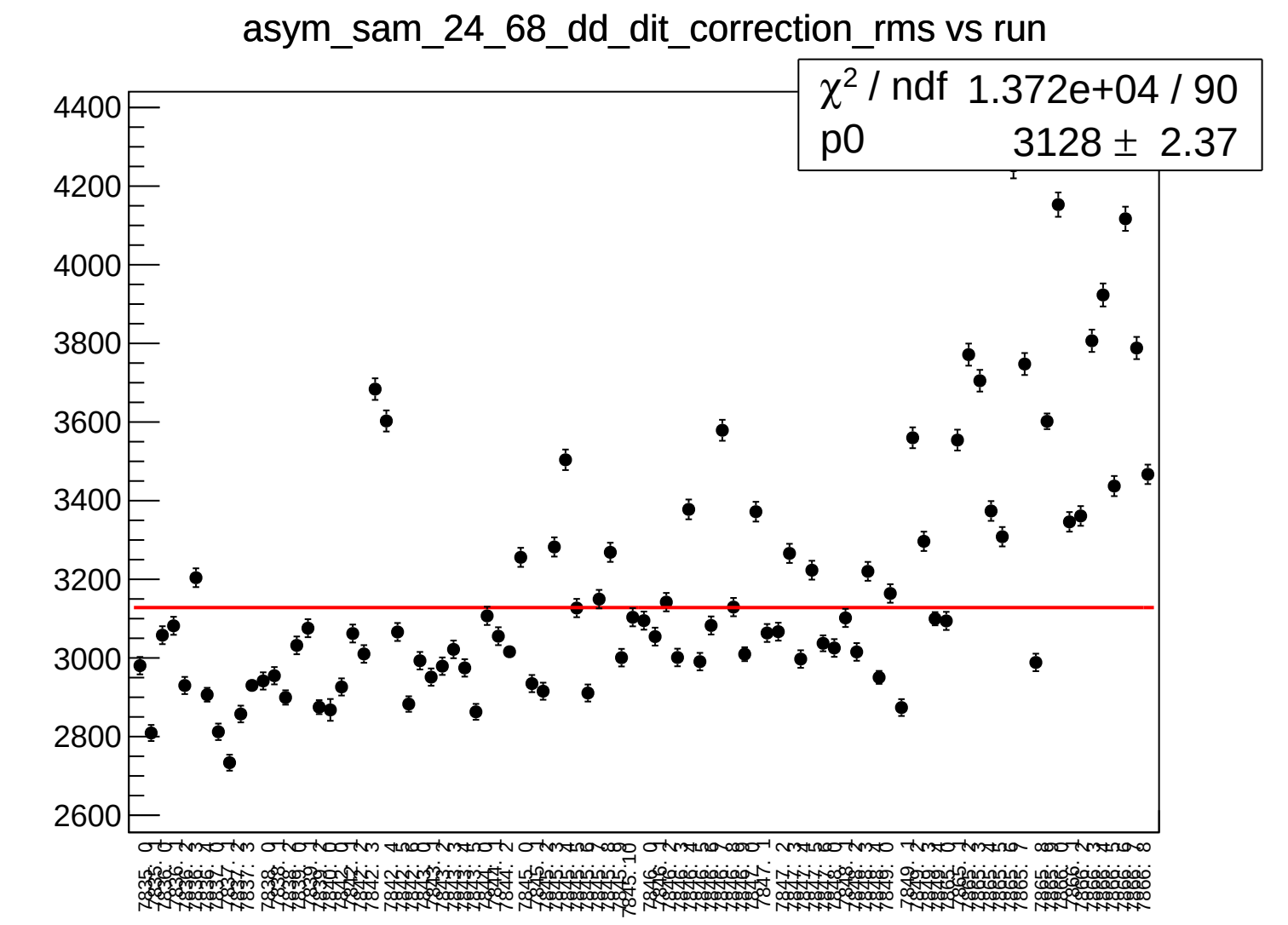

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.472e+04 / 90
p0 3096 ± 2.346
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

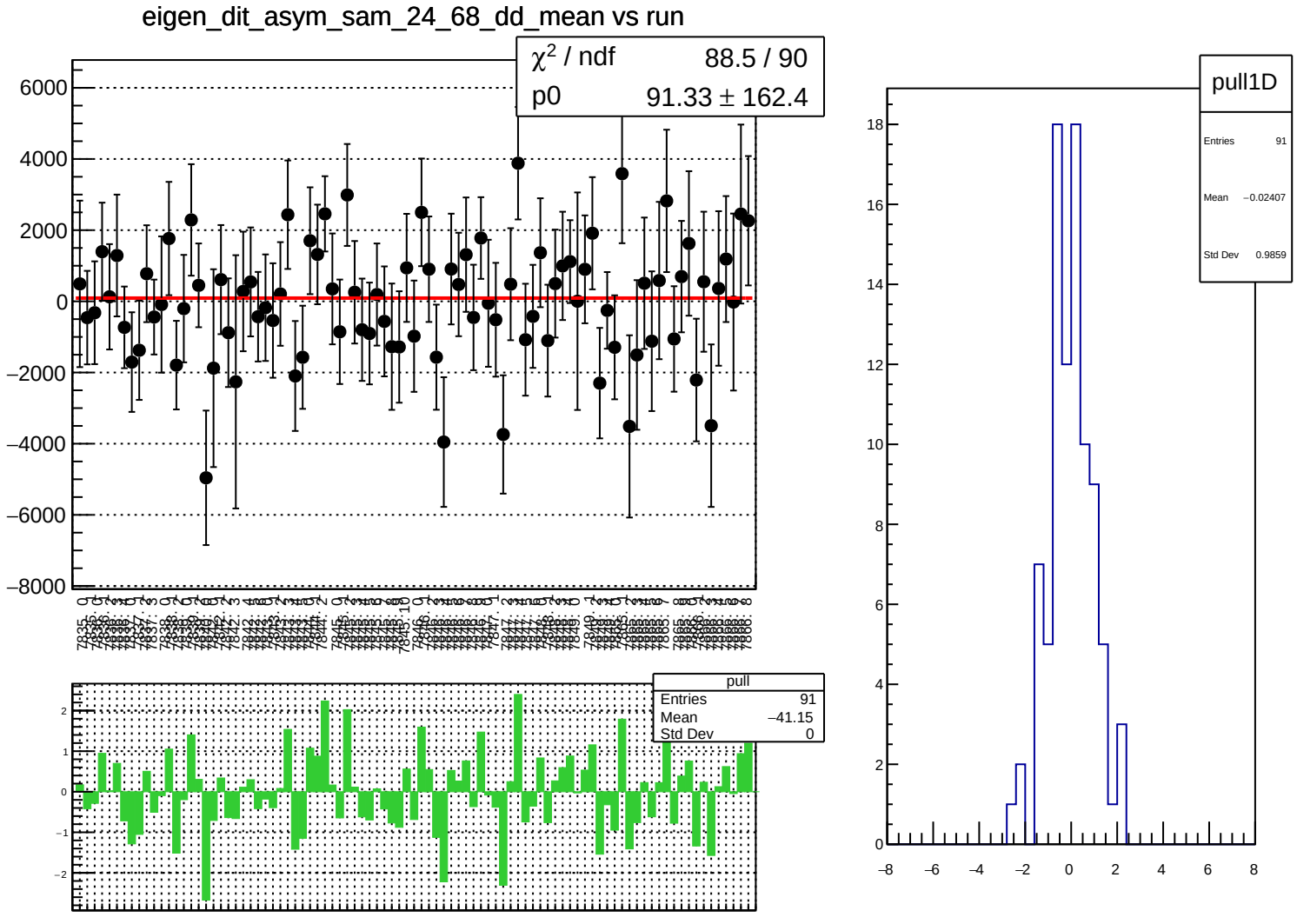

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.5 / 90
p0 91.32 ± 162.4
pull
Entries 91
Mean −41.15
Std Dev 0
pull1D
Entries 91
Mean −0.02407
Std Dev 0.9859

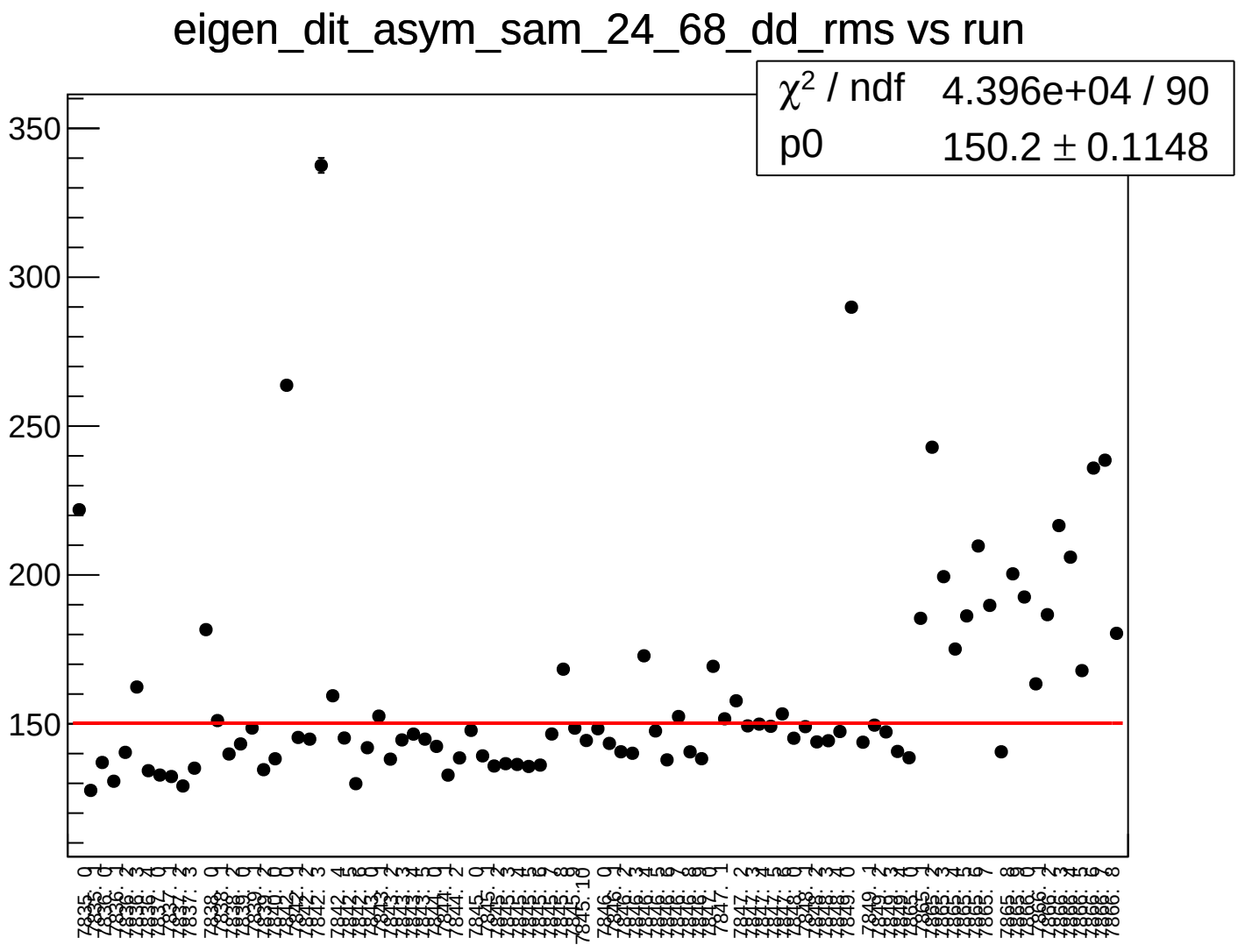

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4.396e+04 / 90
p0 150.2 ± 0.1148
350
300
250
200
150

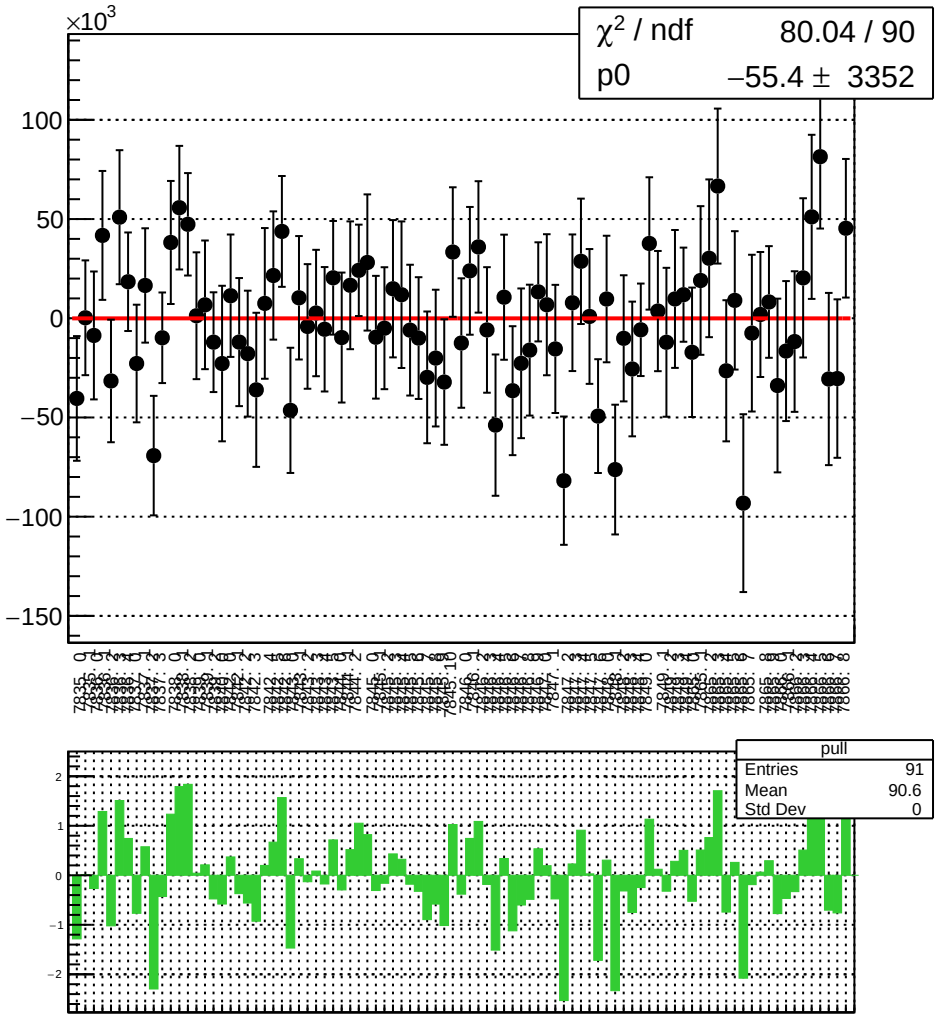

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 80.04 / 90
p0 −55.41± 3352
100
50
0
−50
−100
−150
pull
Entries 91
Mean 90.6
Std Dev 0
2
1
0
−1
−2

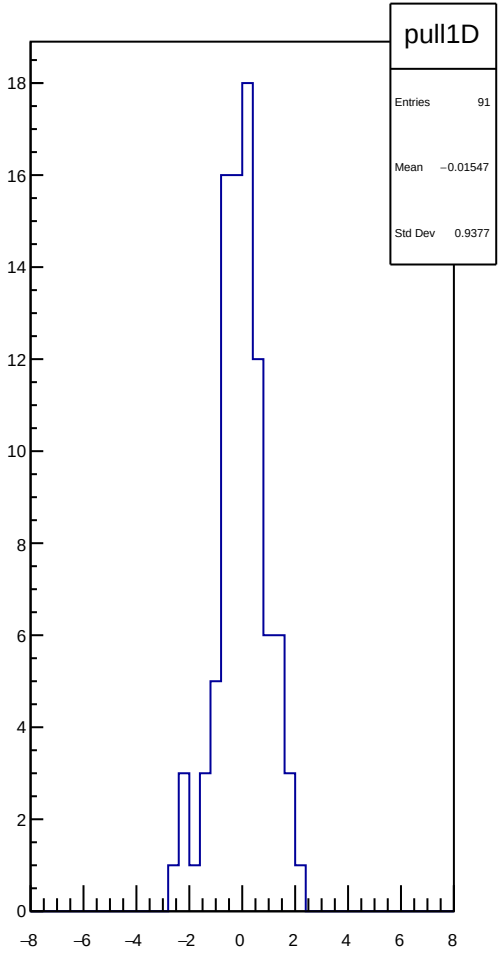

pull1D
Entries 91
Mean −0.01547
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

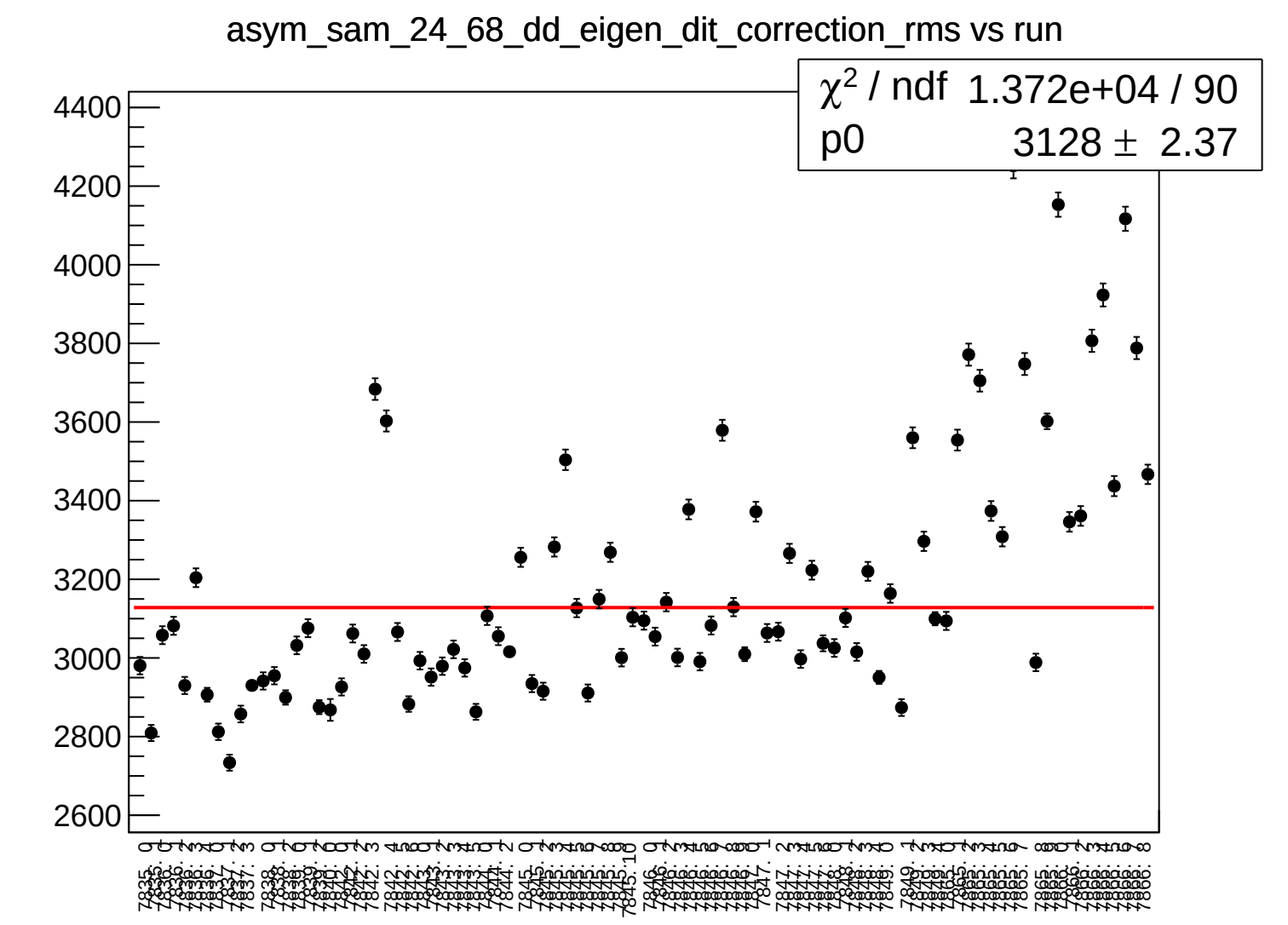

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.372e+04 / 90
p0 3128 ± 2.37
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

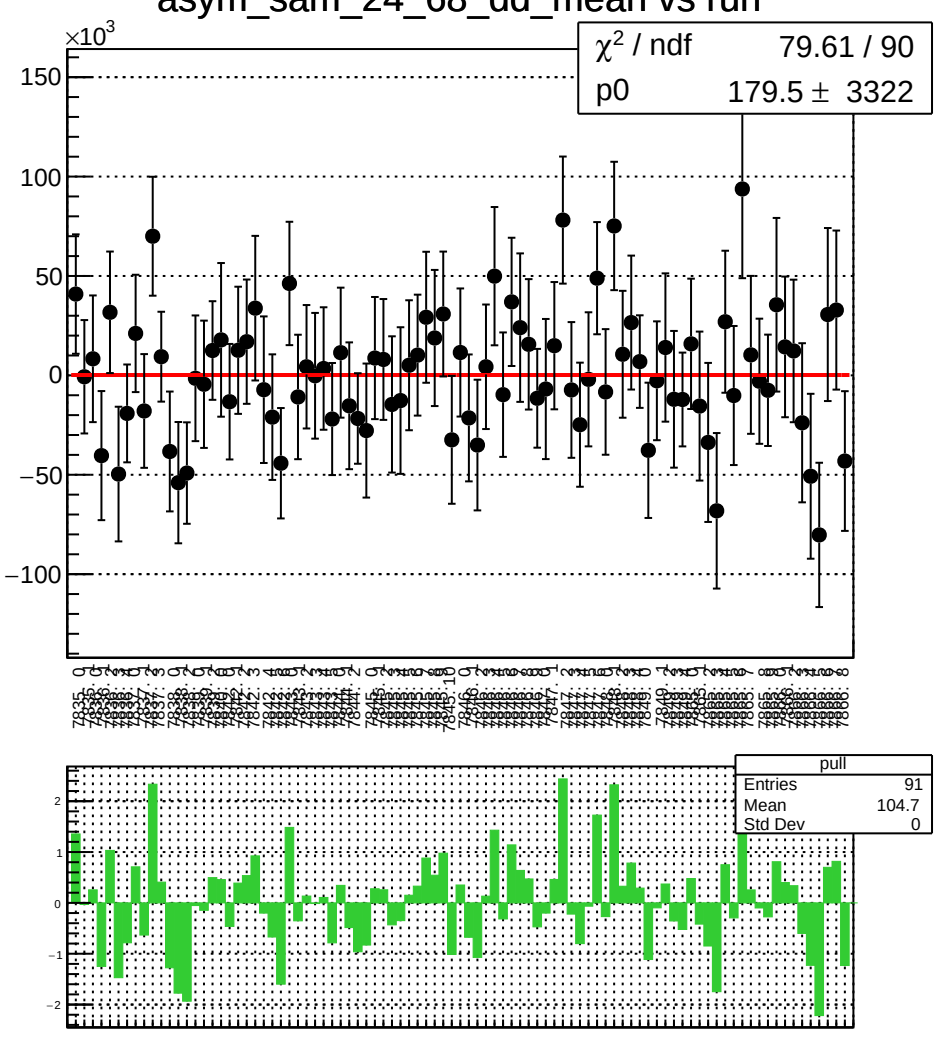

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.5 / 90
p0 91.33 ± 162.4
pull
Entries 91
Mean −41.15
Std Dev 0
pull1D
Entries 91
Mean −0.02407
Std Dev 0.9859

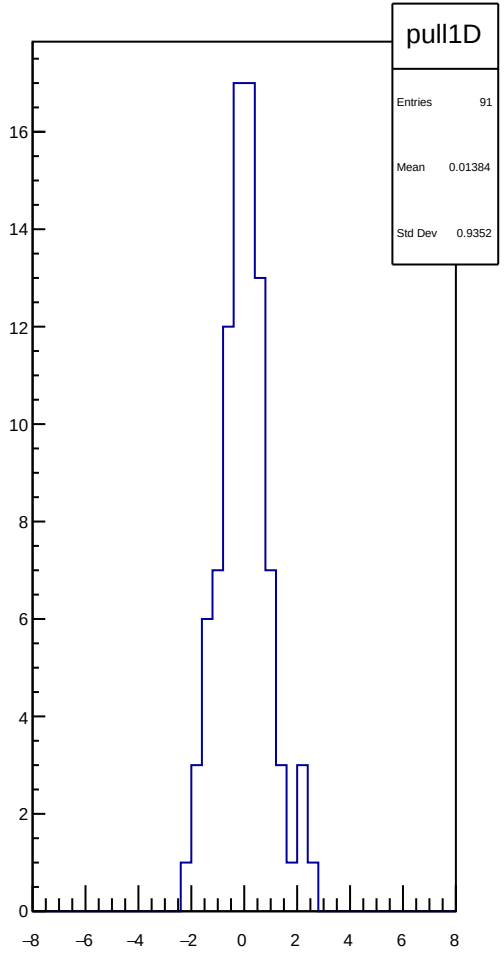

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 4.396e+04 / 90
p0 150.2 ± 0.1148
350
300
250
200
150


asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.04 / 90
p0 −55.4 ± 3352
100
50
0
−50
−100
−150
pull
Entries 91
Mean 90.6
Std Dev 0
2
1
0
−1
−2

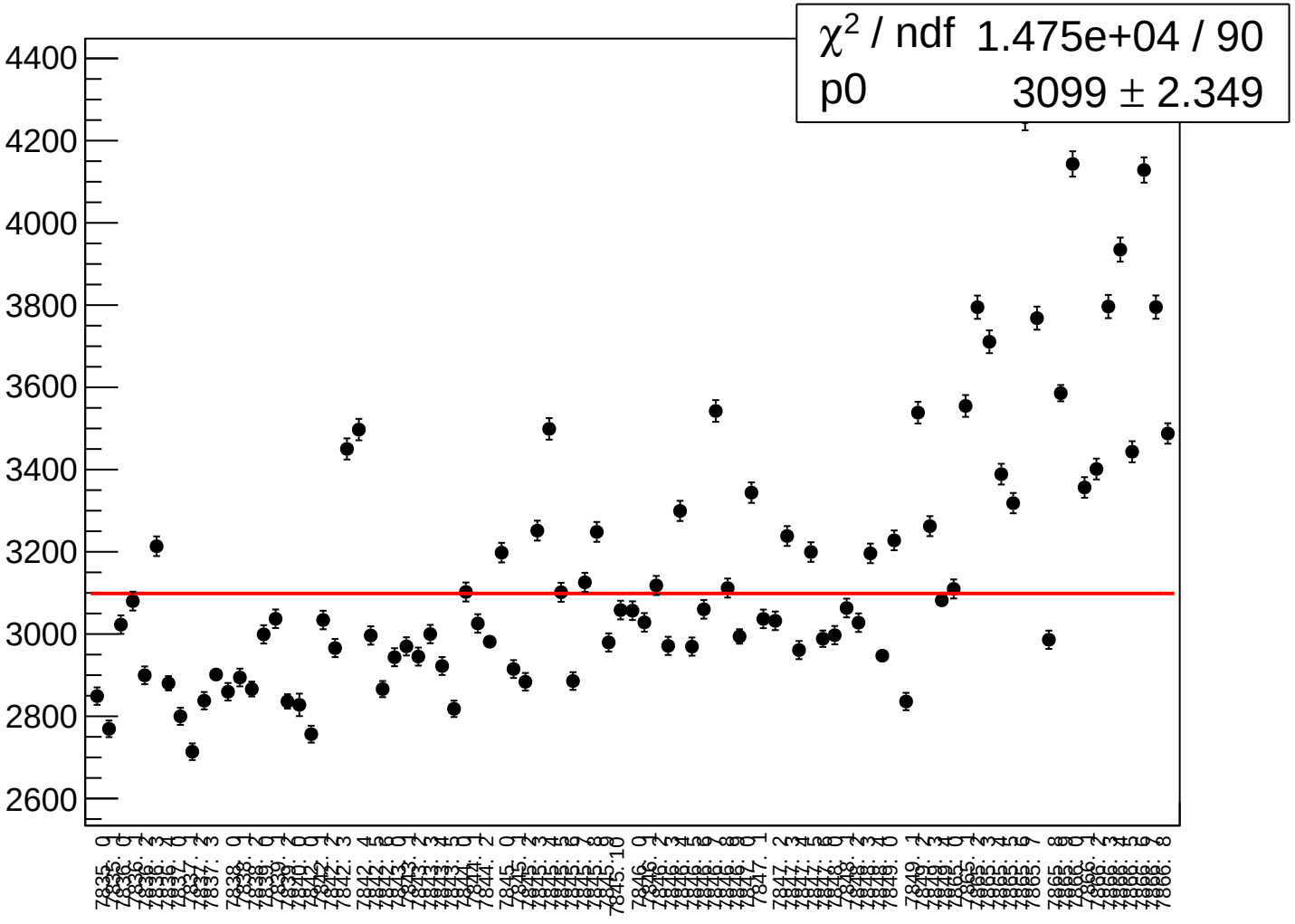

pull1D
Entries 91
Mean −0.01547
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

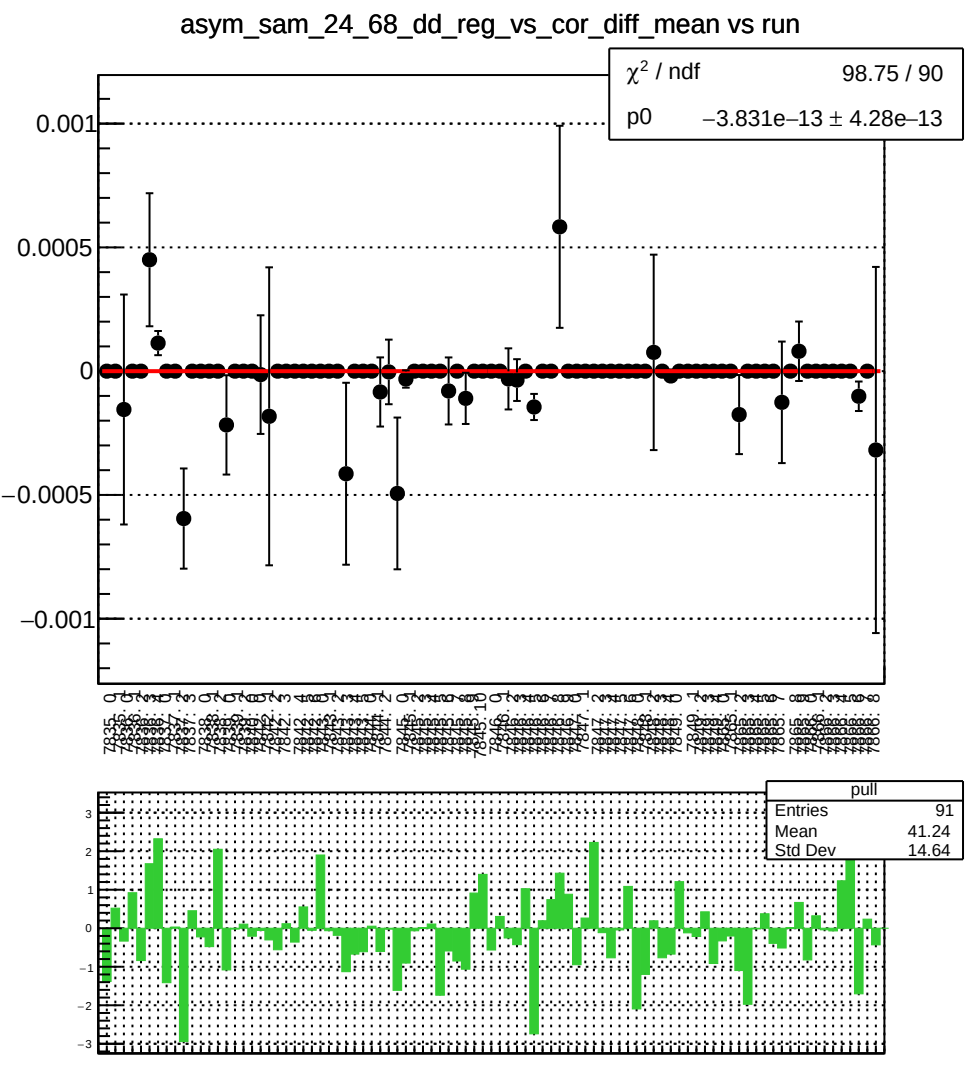

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.372e+04 / 90
p0 3128 ± 2.37
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

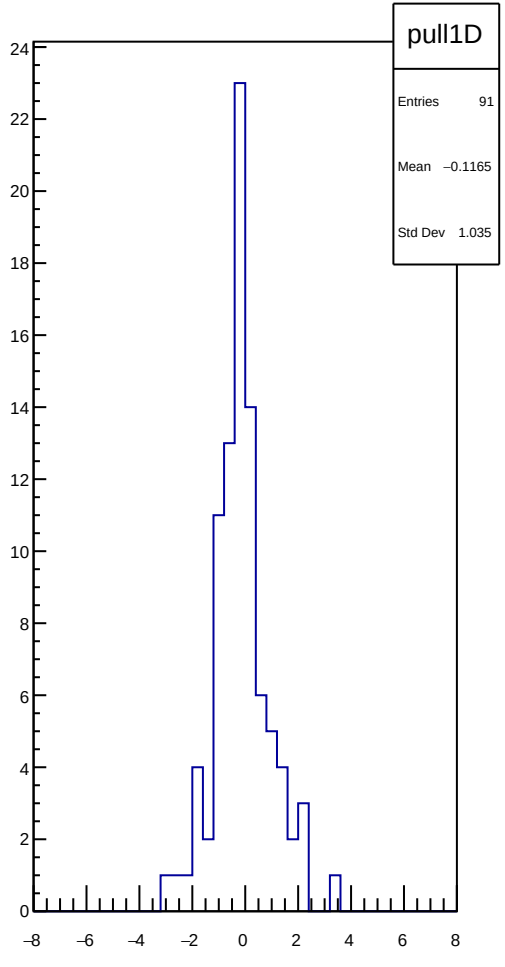

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 79.61 / 90
p0 179.5 ± 3322
150
100
50
0
−50
−100
pull
Entries 91
Mean 104.7
Std Dev 0
2
1
0
−1
−2

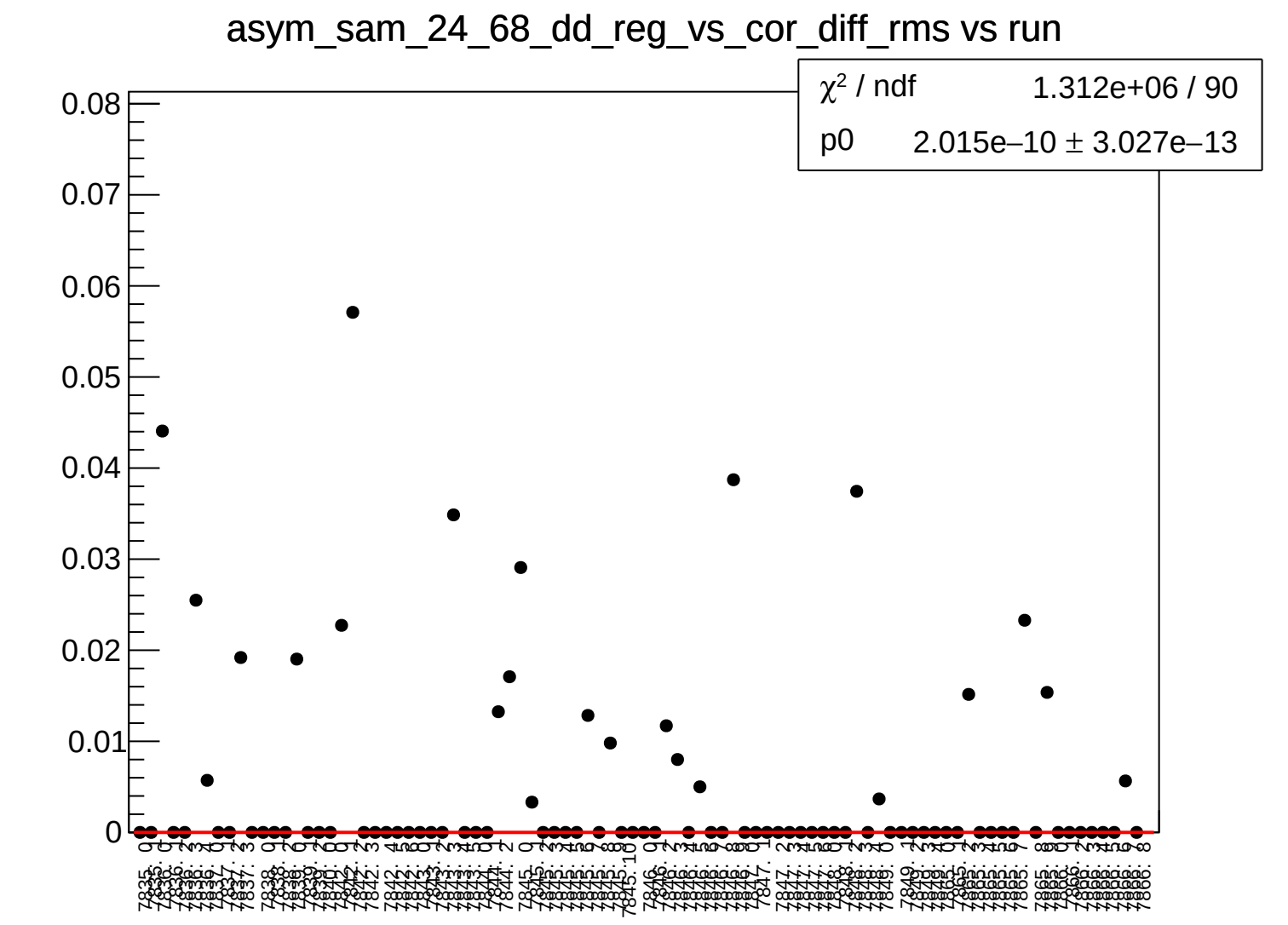

pull1D
Entries 91
Mean 0.01384
Std Dev 0.9352
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

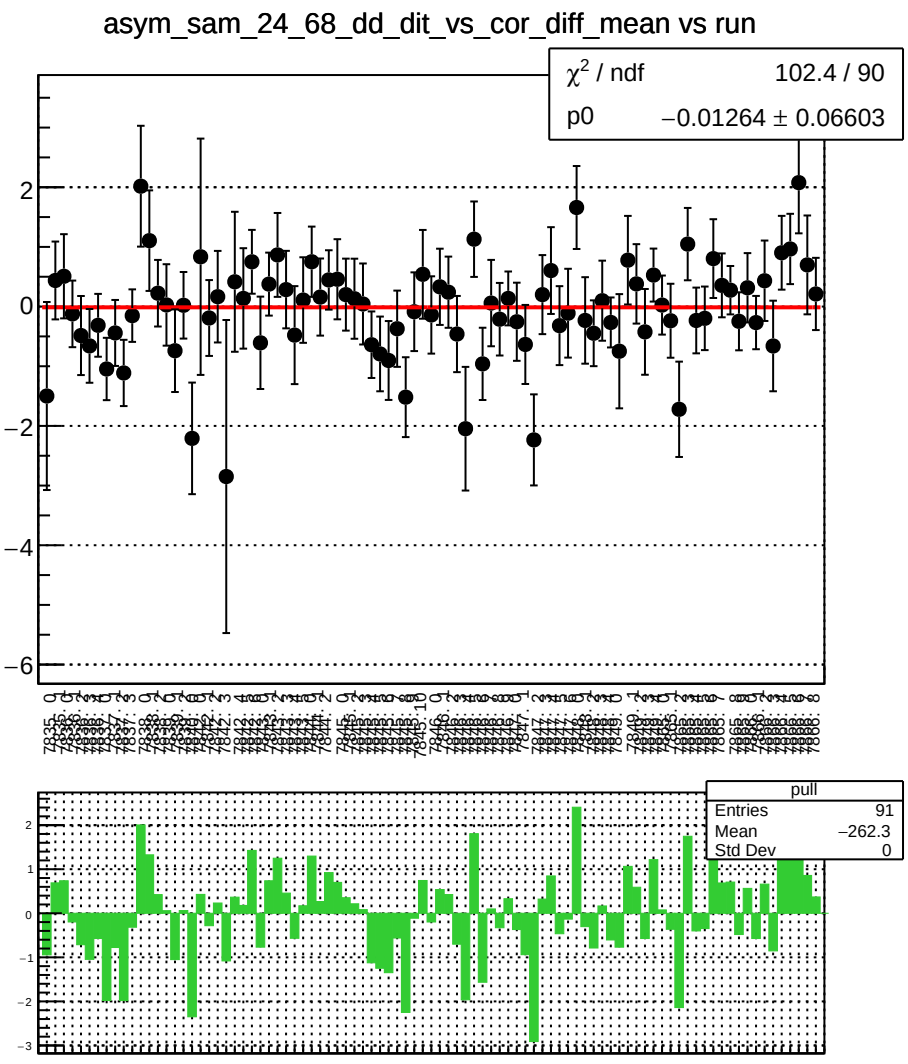
asym_sam_24_68_dd_rms vs run

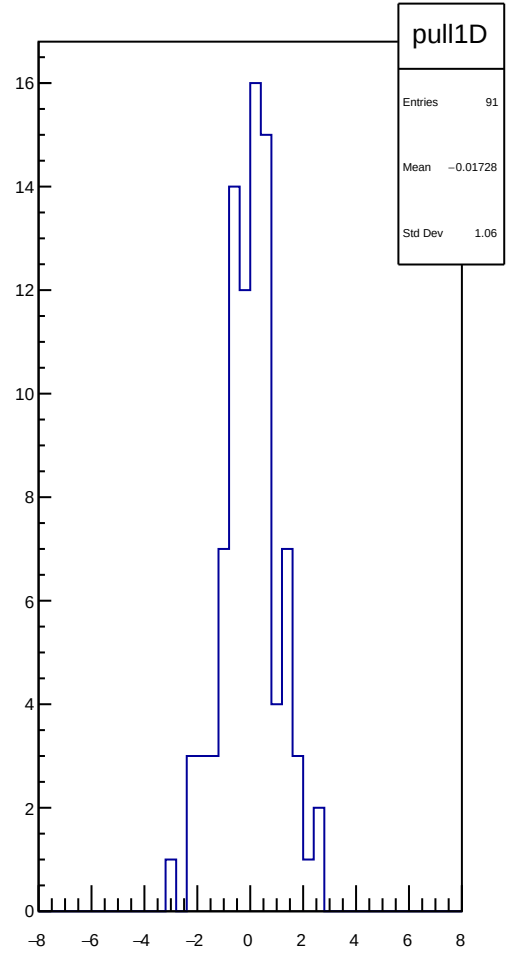


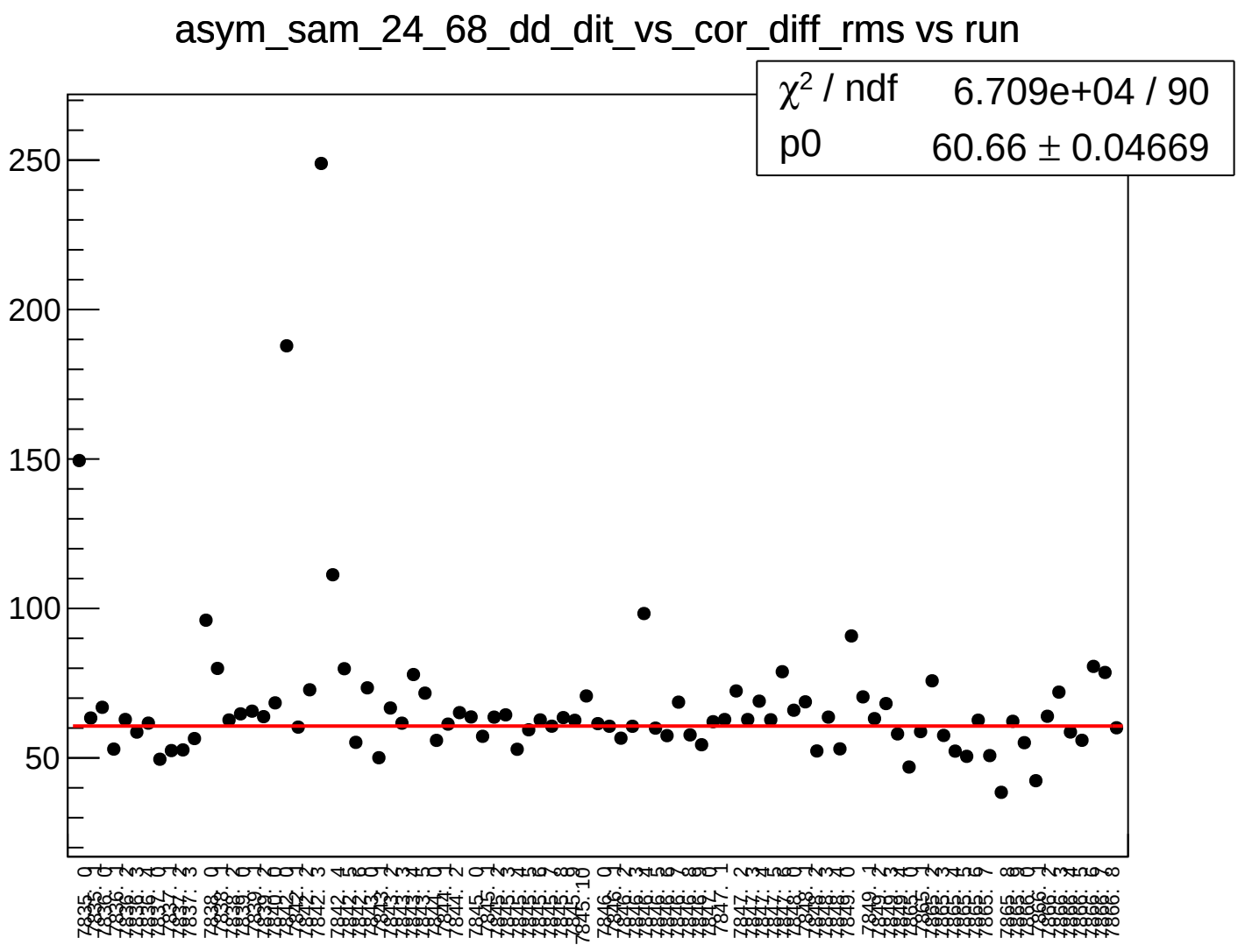

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.75 / 90
p0 −3.831e−13 ± 4.28e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 41.24
Std Dev 14.64
3
2
1
0
−1
−2
−3

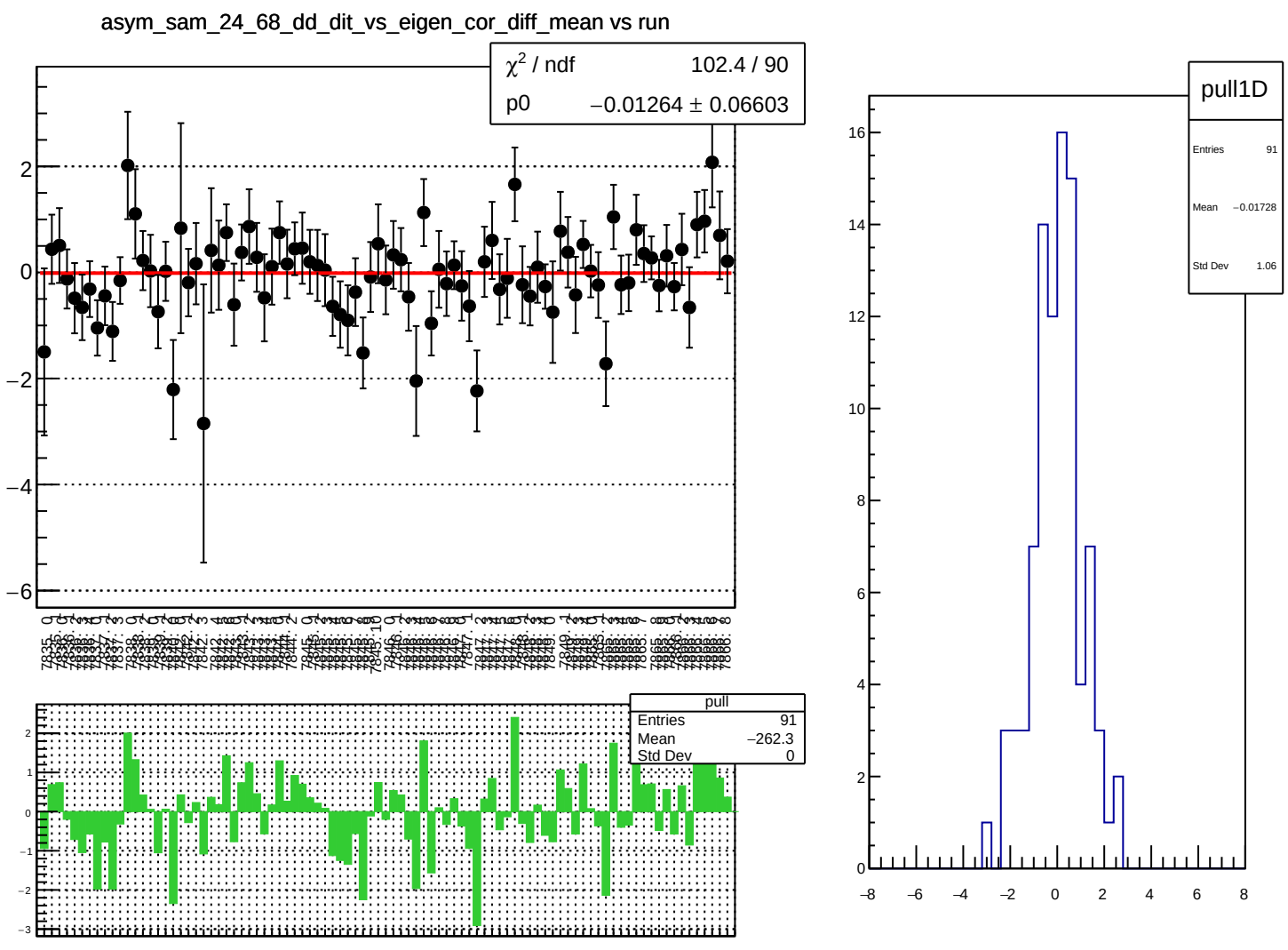

pull1D
Entries 91
Mean −0.1165
Std Dev 1.035
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

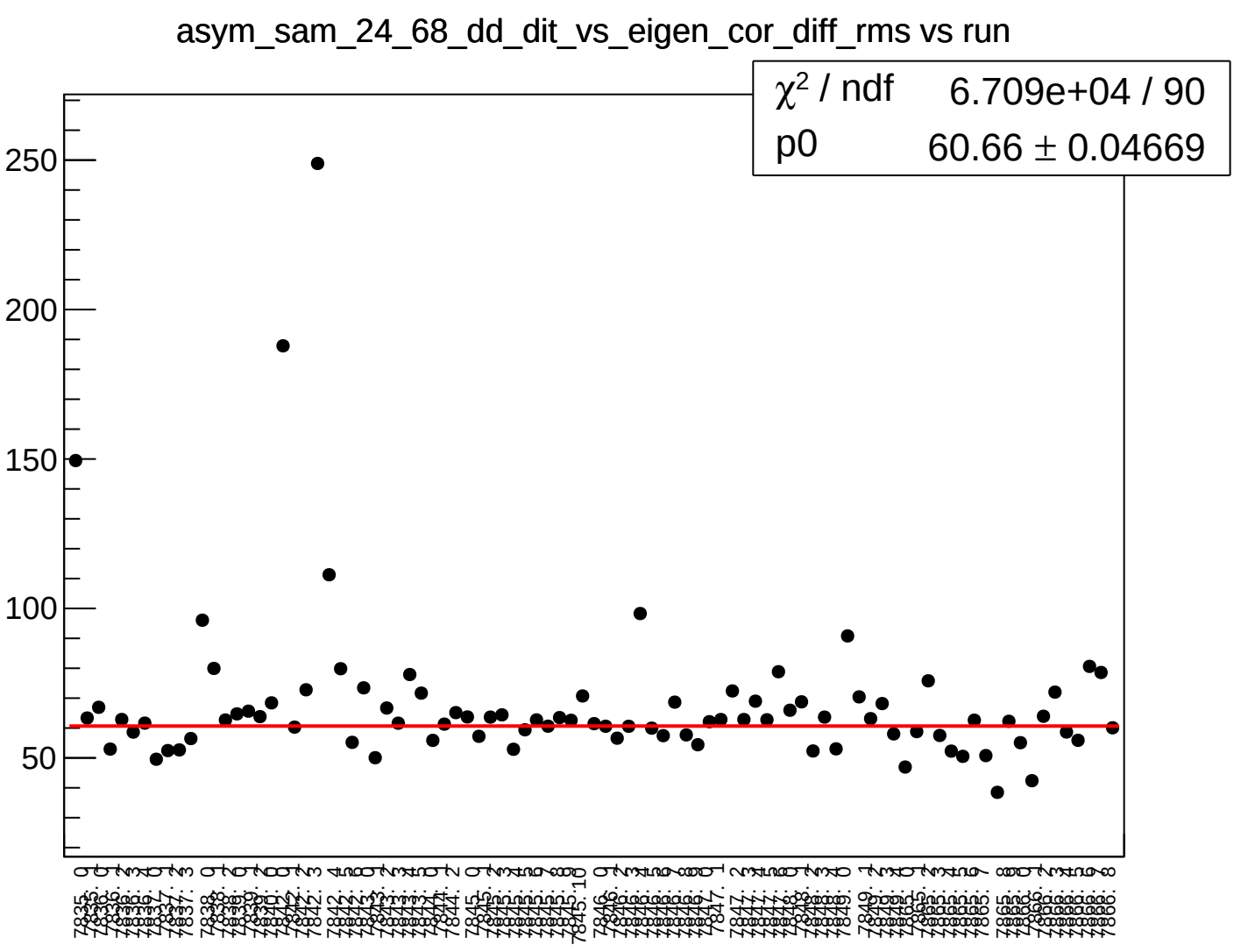

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.312e+06 / 90
p0 2.015e−10 ± 3.027e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

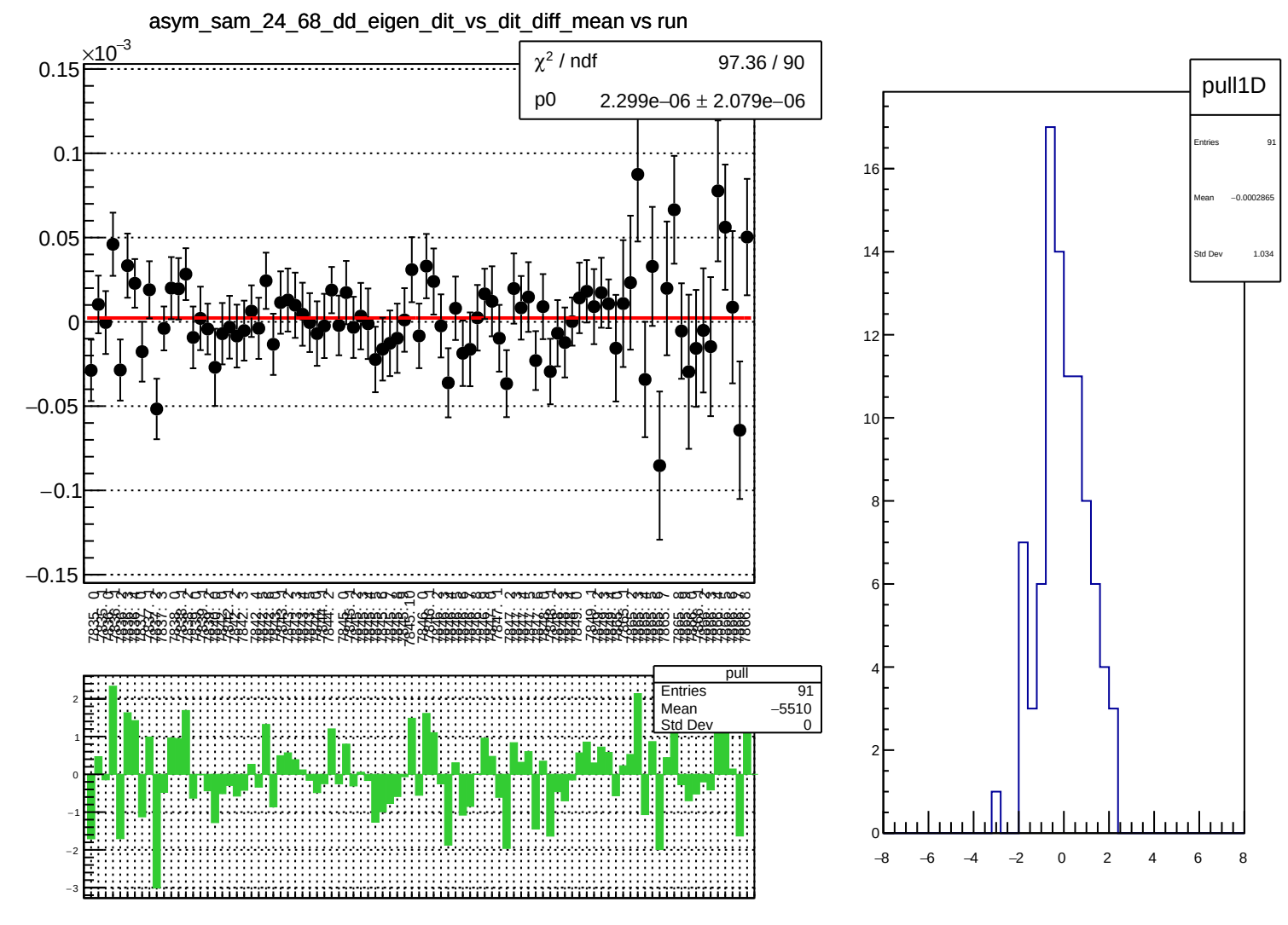

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 90
p0 −0.01264 ± 0.06603
pull
Entries 91
Mean −262.3
Std Dev 0

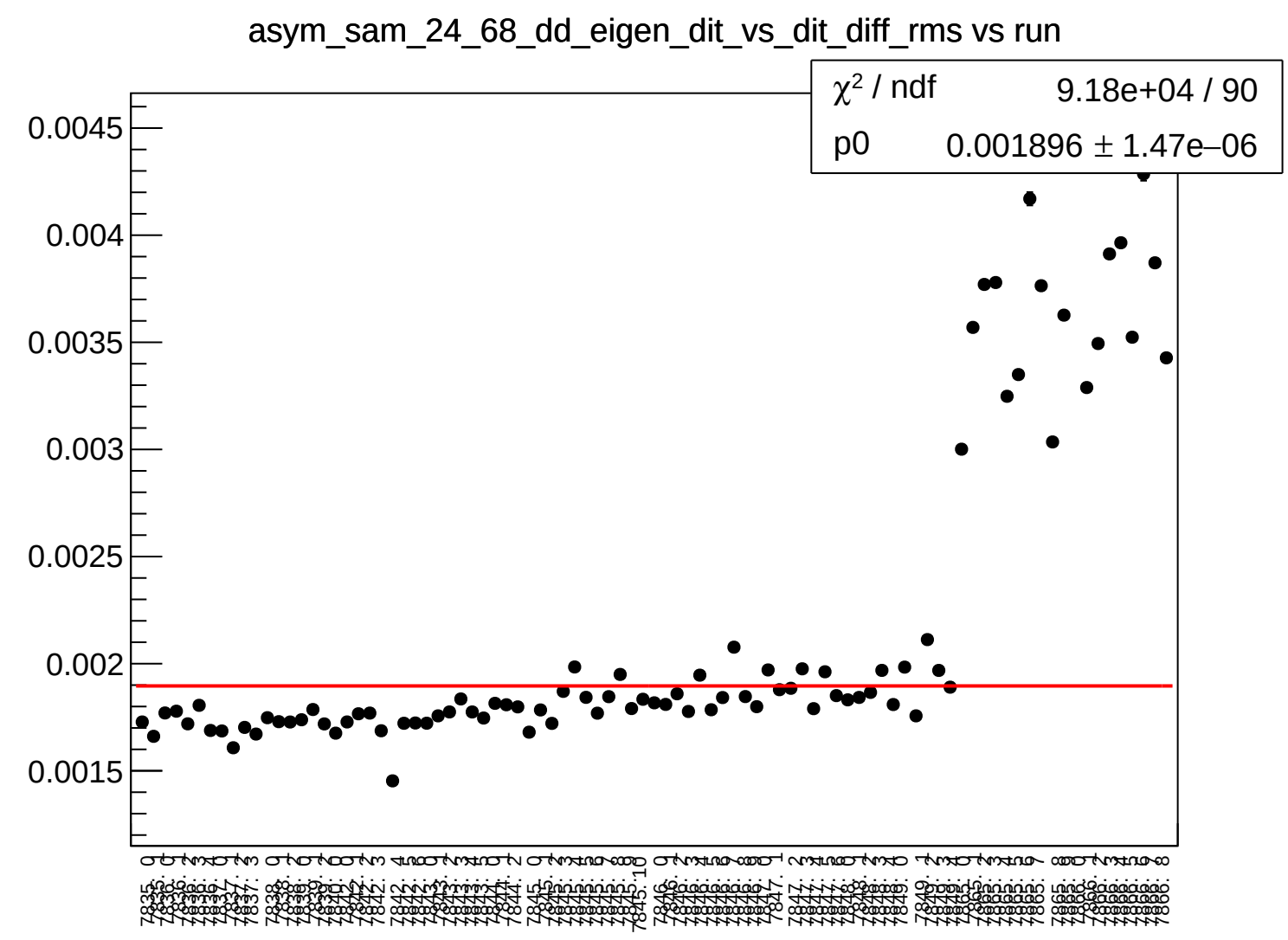

pull1D
Entries 91
Mean −0.01728
Std Dev 1.06

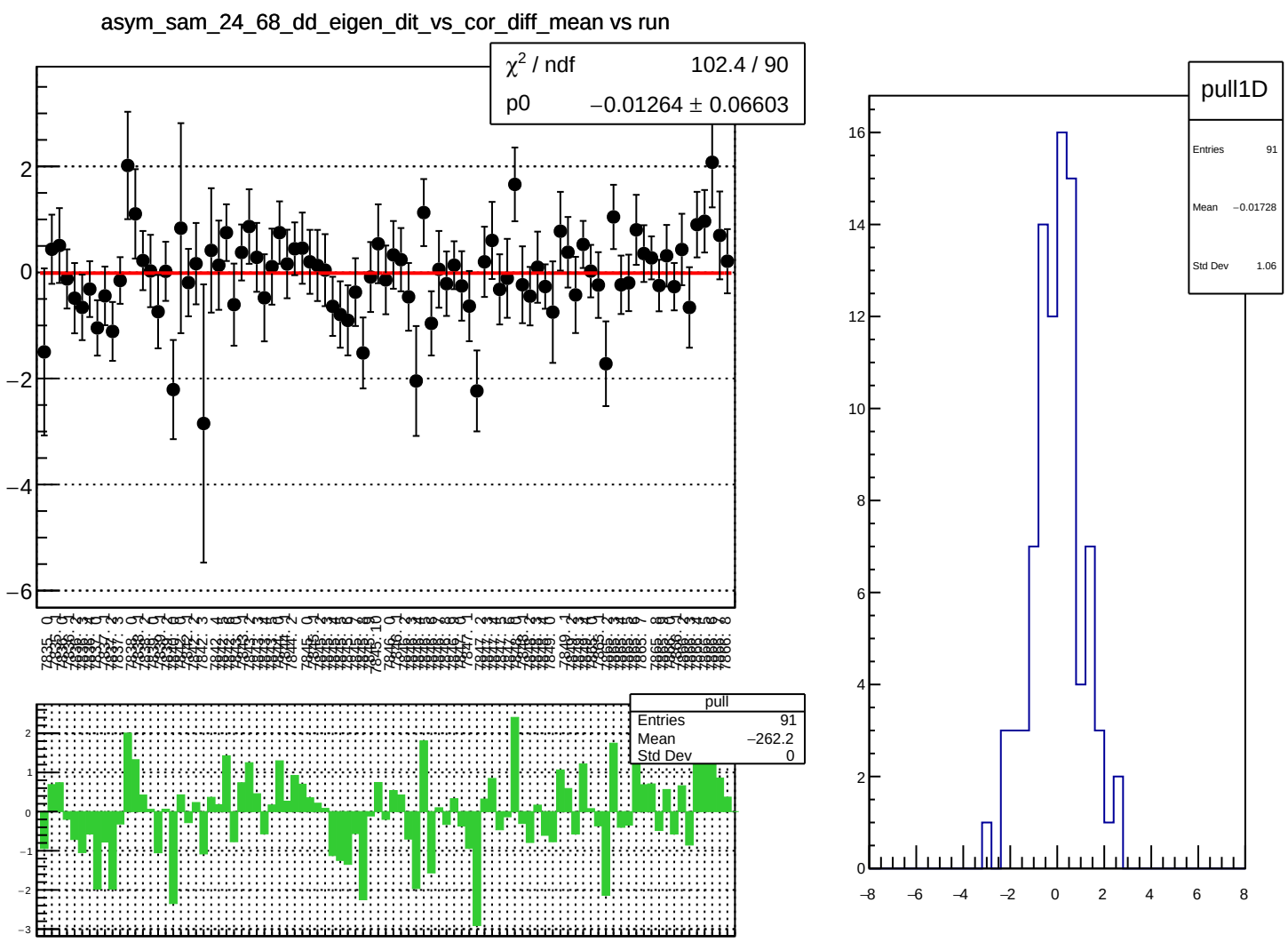

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.709e+04 / 90
p0 60.66 ± 0.04669
250
200
150
100
50

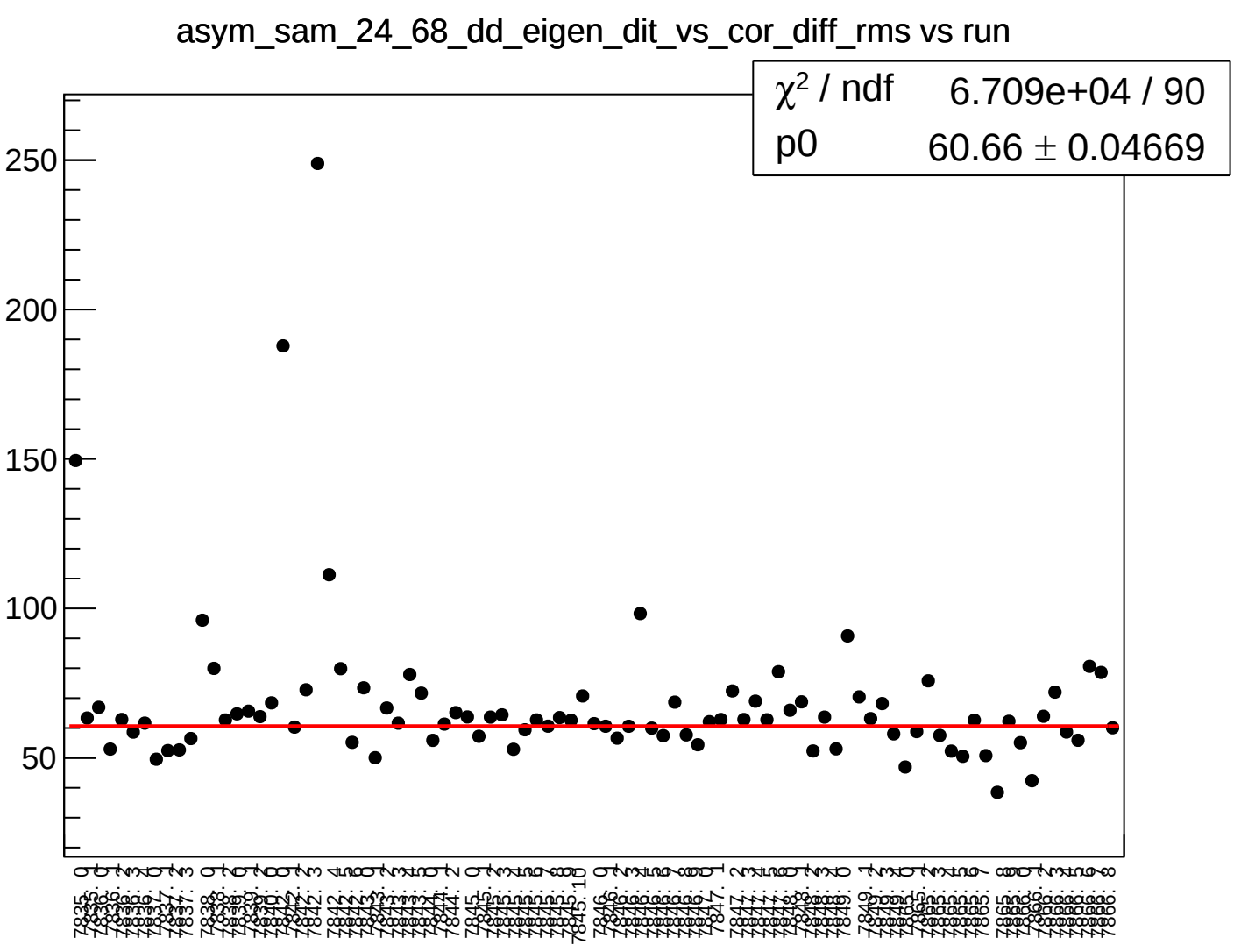

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 90
p0 −0.01264 ± 0.06603
pull
Entries 91
Mean −262.3
Std Dev 0
pull1D
Entries 91
Mean −0.01728
Std Dev 1.06


asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.709e+04 / 90
p0 60.66 ± 0.04669
250
200
150
100
50

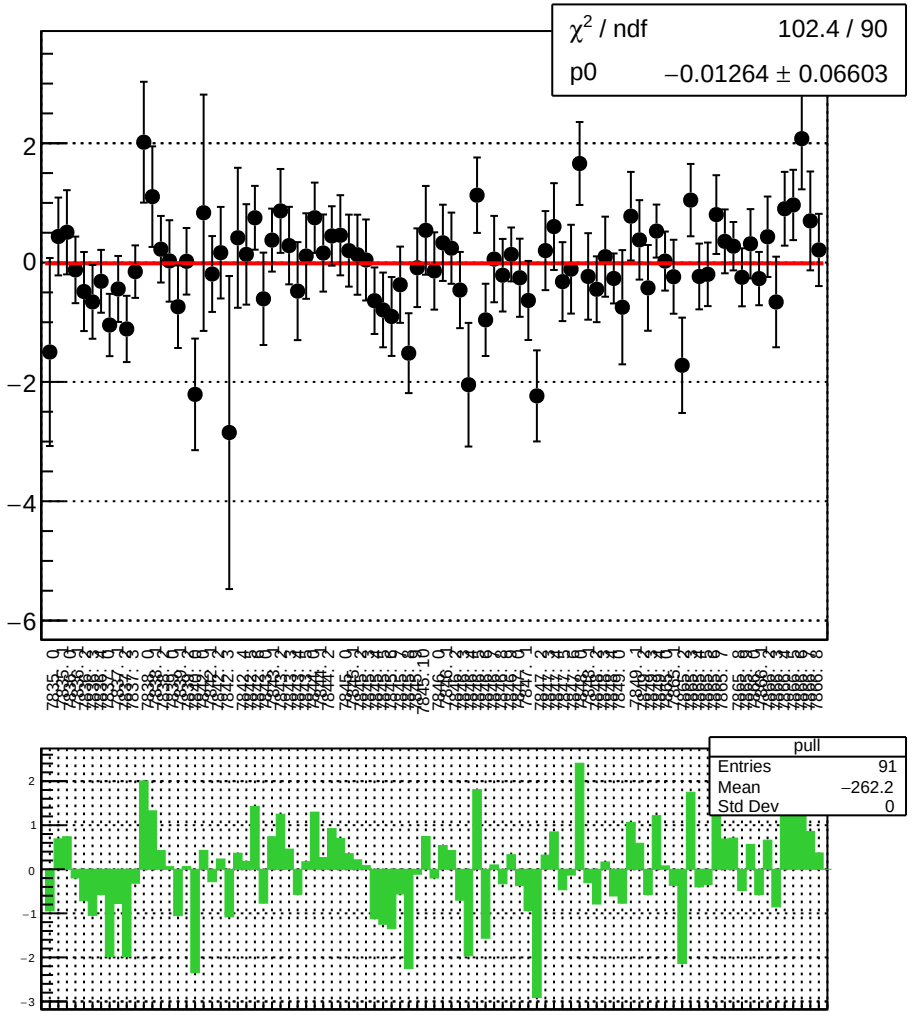

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.36 / 90
p0 2.299e−06 ± 2.079e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −5510
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.0002865
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

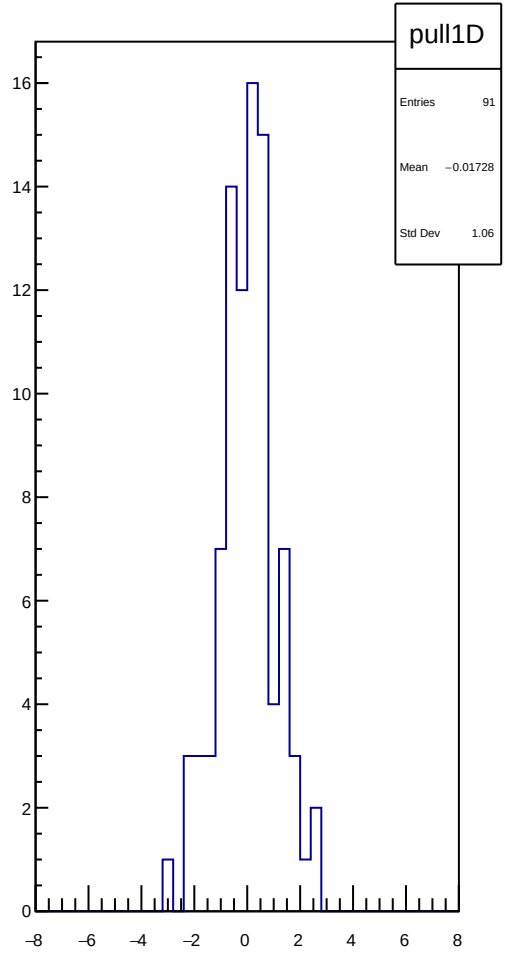

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.18e+04 / 90
p0 0.001896 ± 1.47e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

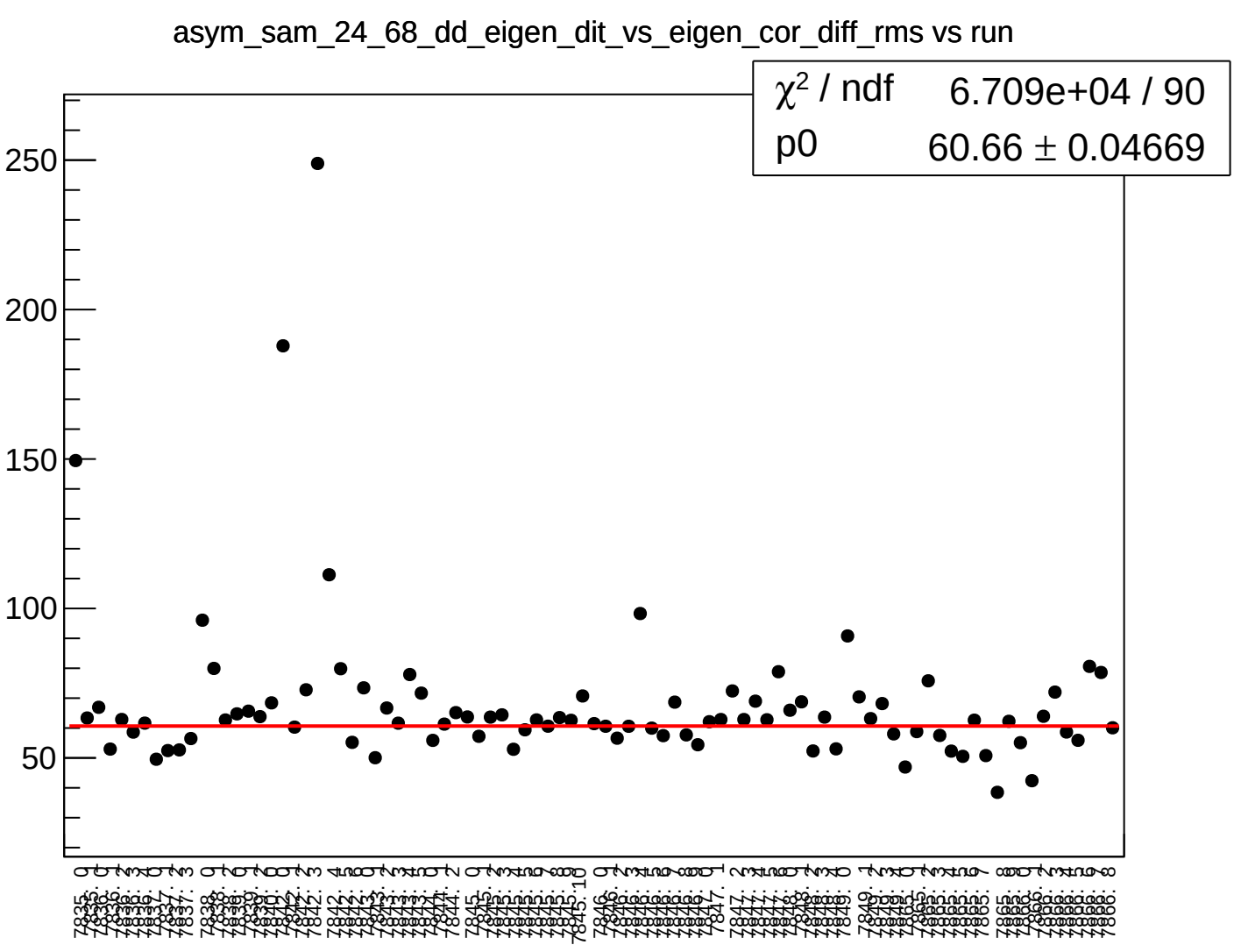

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 90
p0 −0.01264 ± 0.06603
pull
Entries 91
Mean −262.2
Std Dev 0
pull1D
Entries 91
Mean −0.01728
Std Dev 1.06

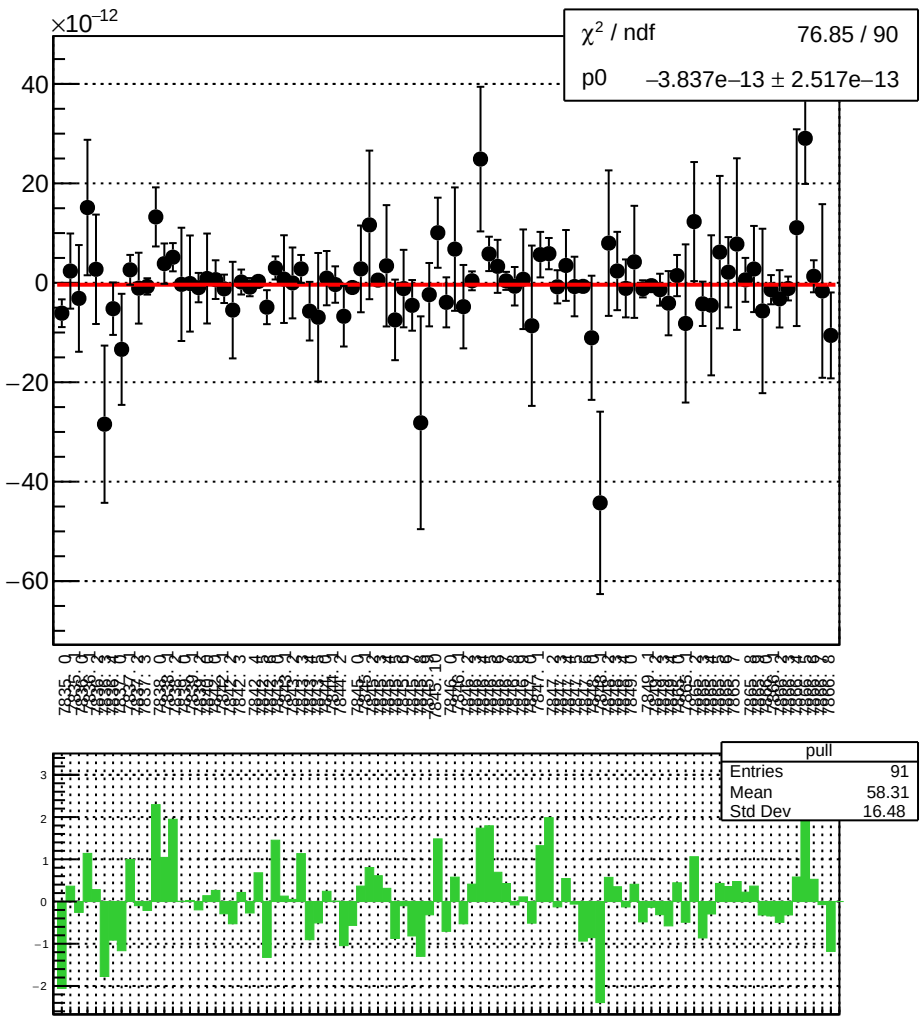

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.709e+04 / 90
p0 60.66 ± 0.04669
250
200
150
100
50

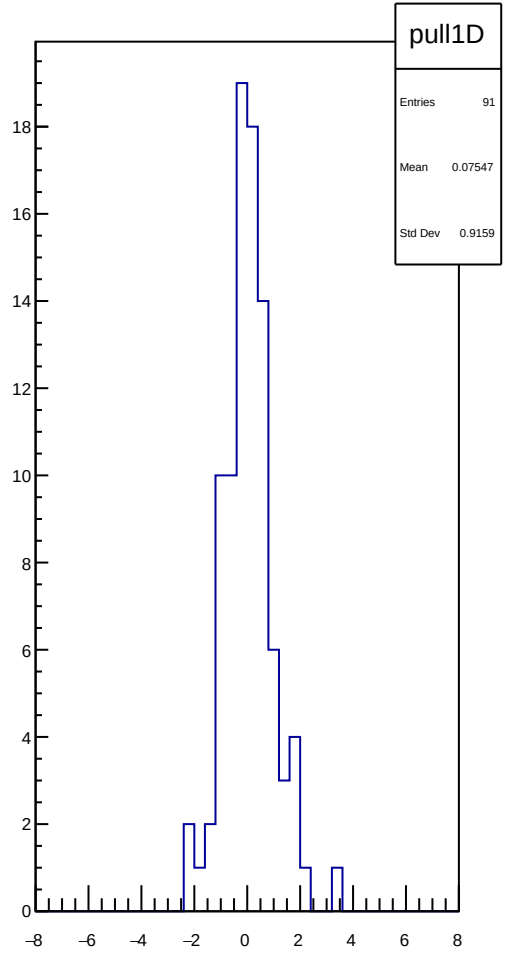
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

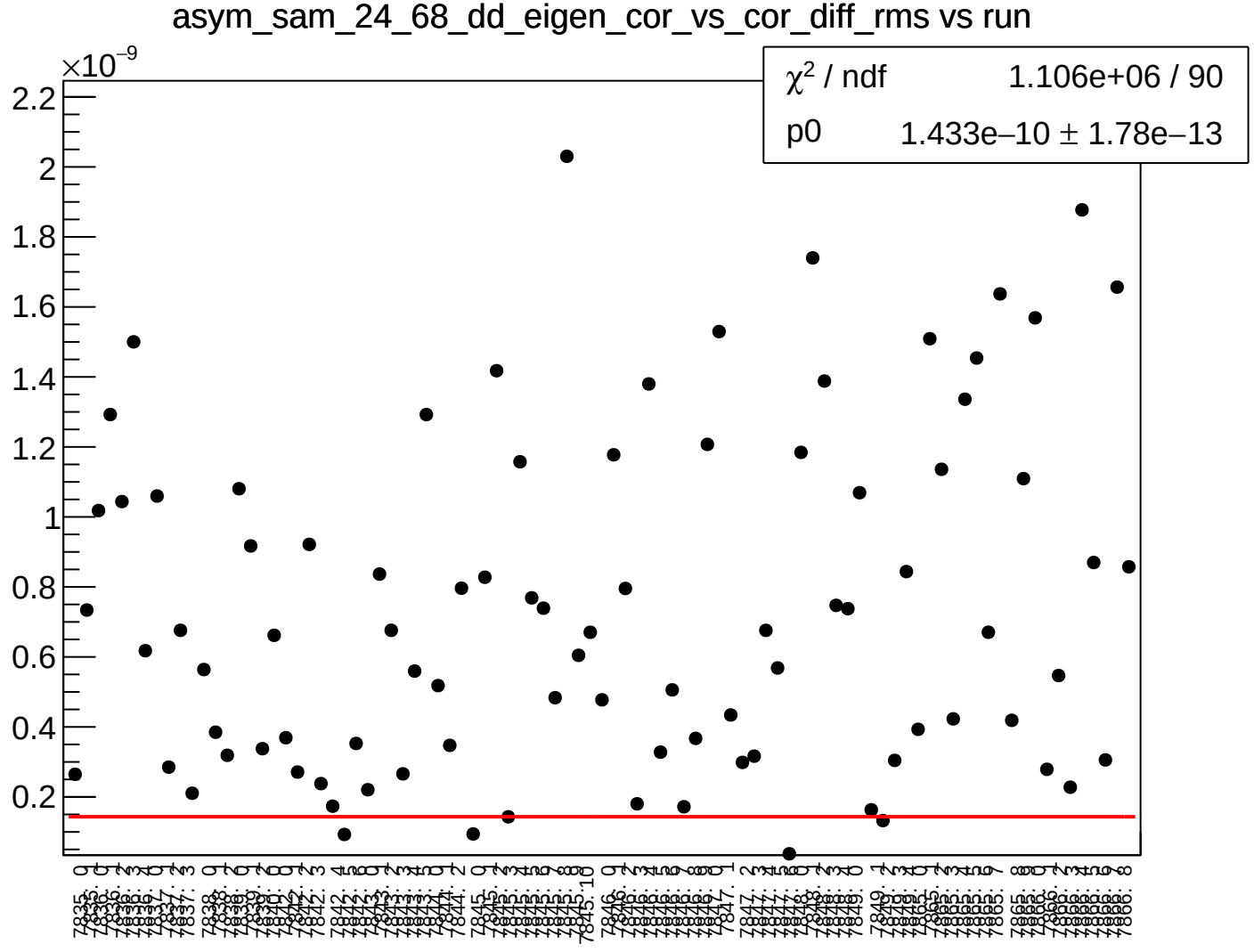


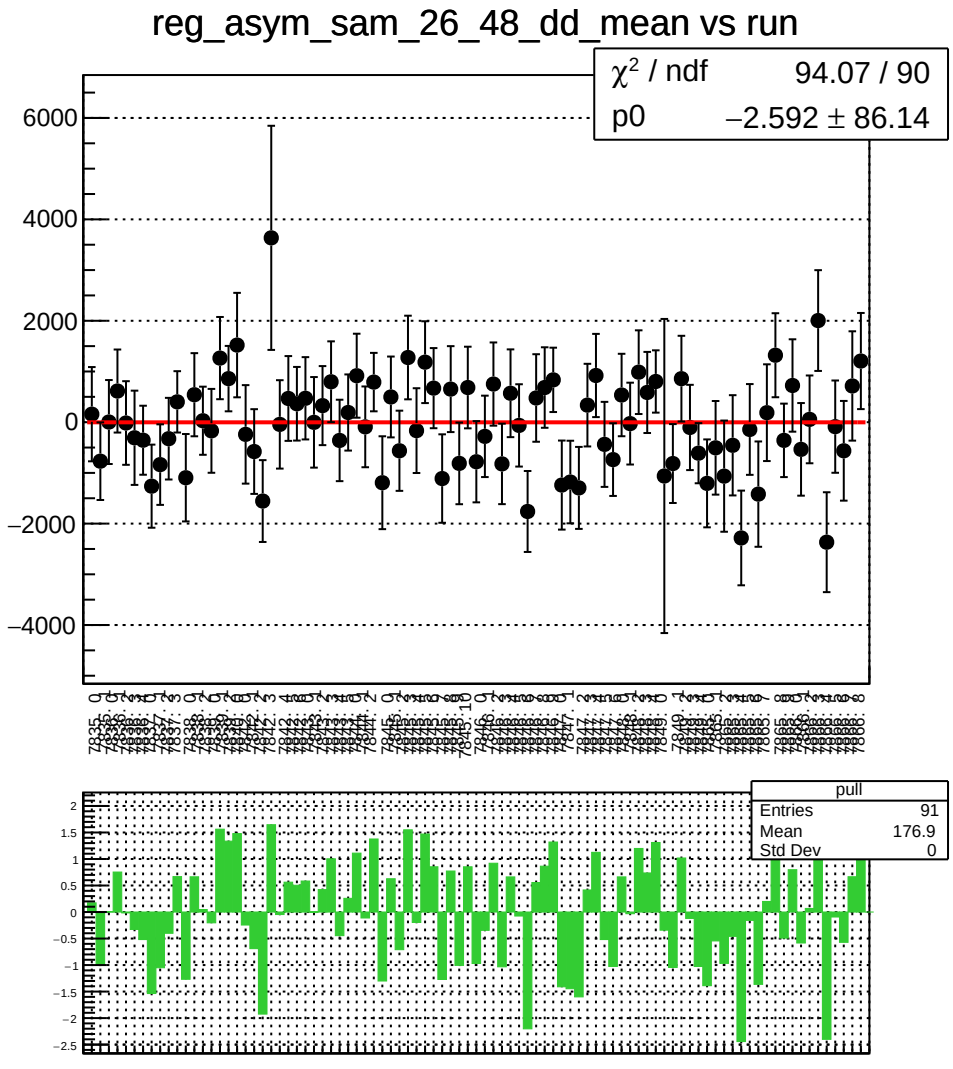


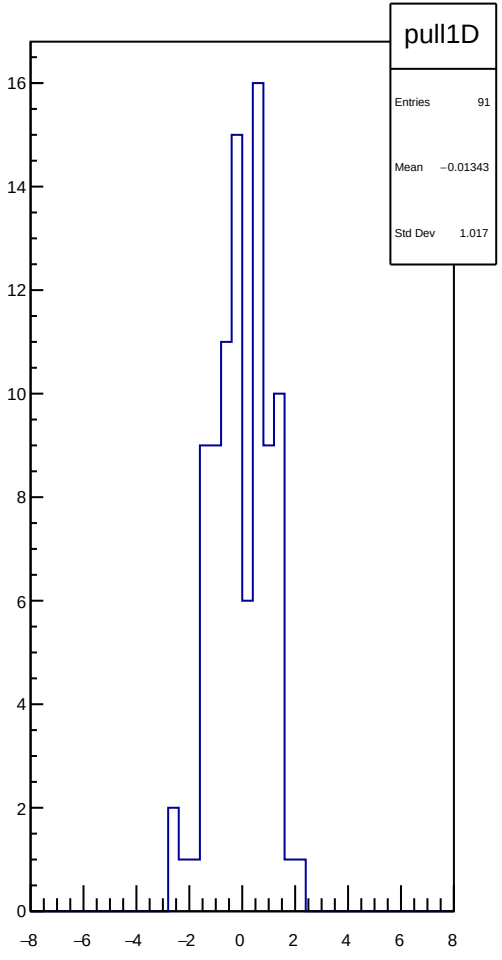

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.709e+04 / 90
p0 60.66 ± 0.04669
250
200
150
100
50

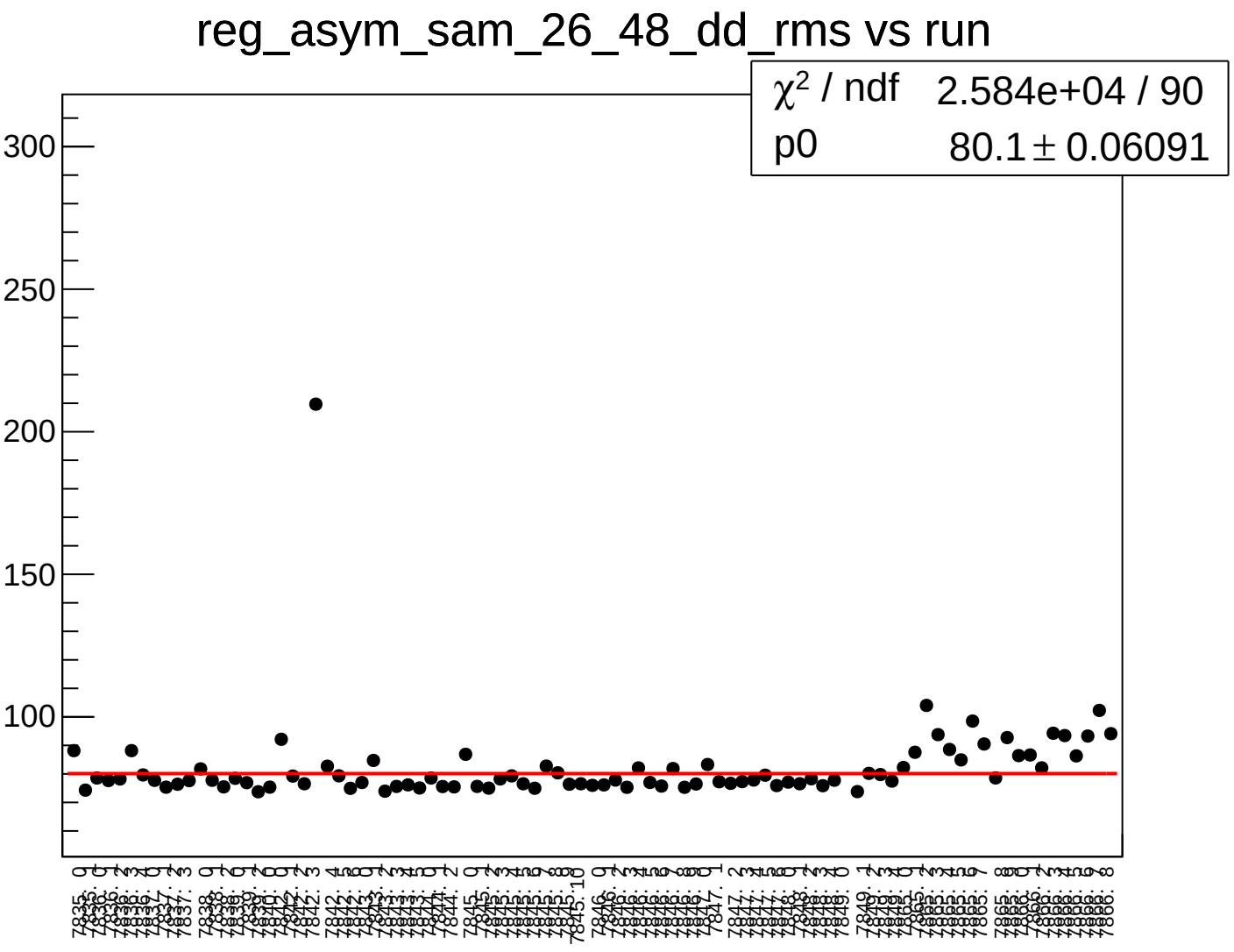

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.85 / 90
p0 −3.837e−13 ± 2.517e−13
pull
Entries 91
Mean 58.31
Std Dev 16.48

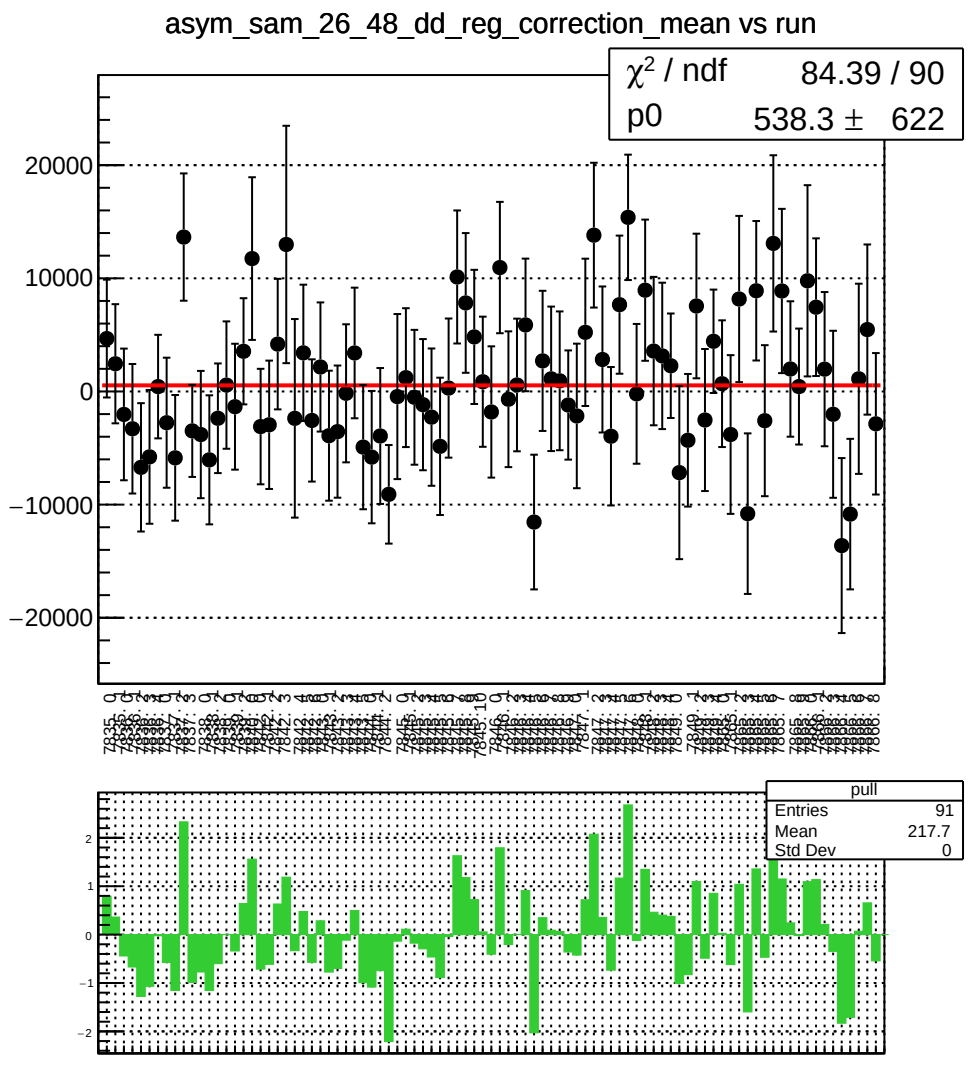

pull1D
Entries 91
Mean 0.07547
Std Dev 0.9159

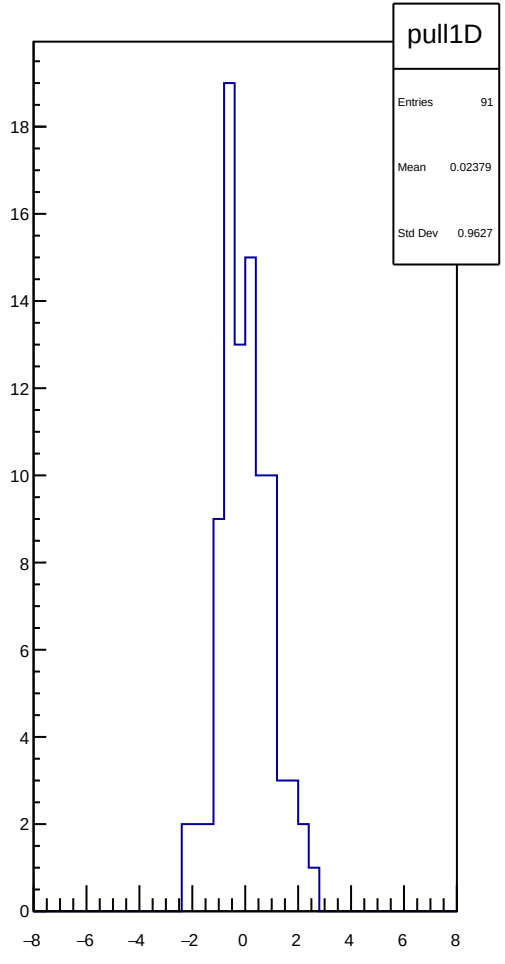

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.106e+06 / 90
p0 1.433e−10 ± 1.78e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

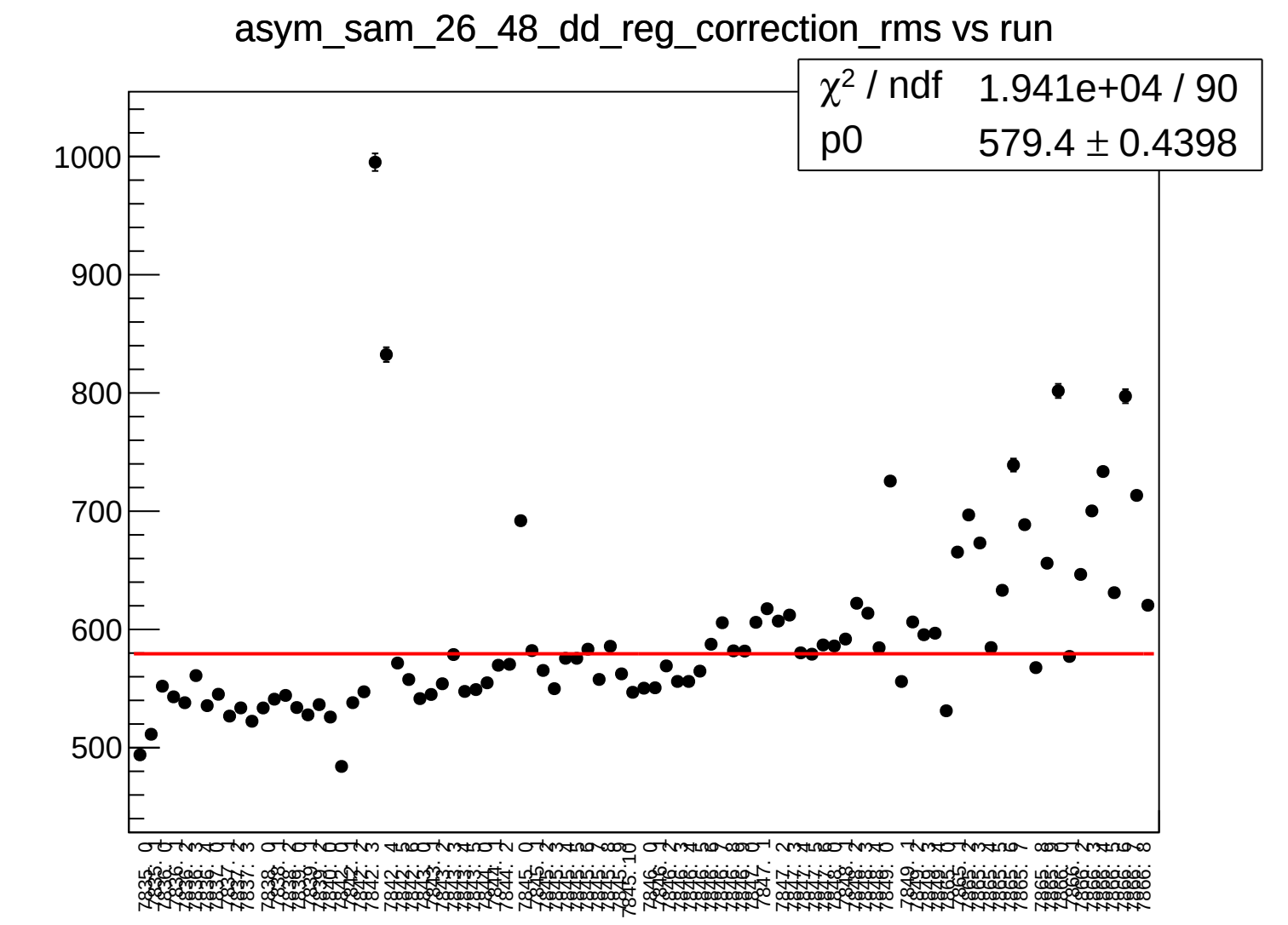

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 94.07 / 90
p0 −2.592 ± 86.14
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 176.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

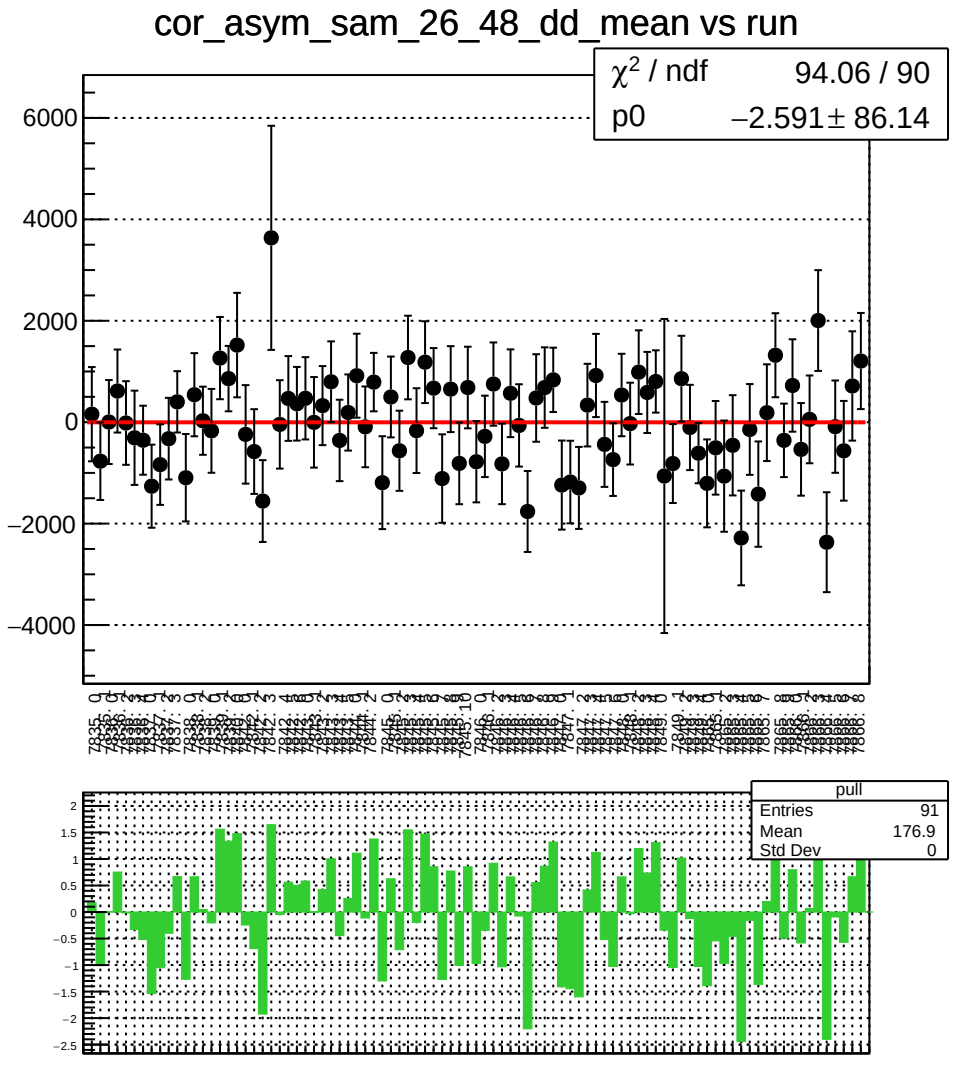

pull1D
Entries 91
Mean −0.01343
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

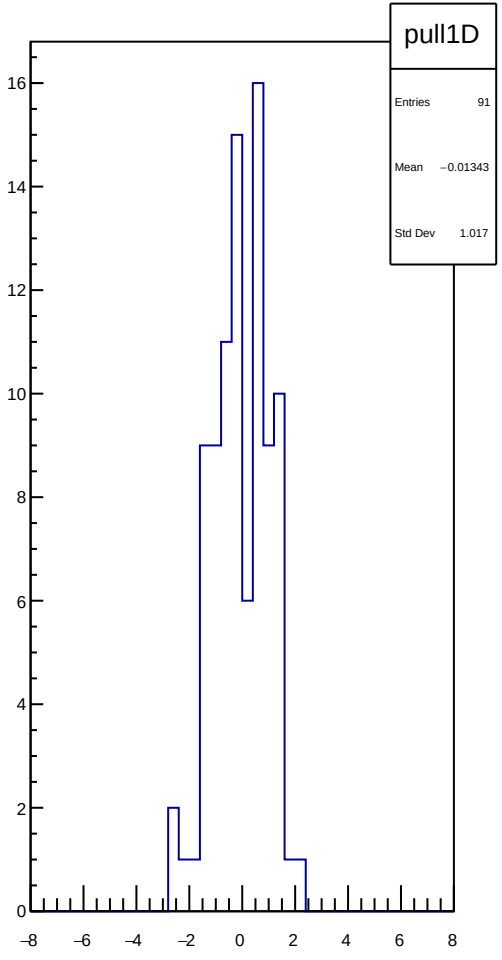

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.584e+04 / 90
p0 80.1 ± 0.06091
300
250
200
150
100

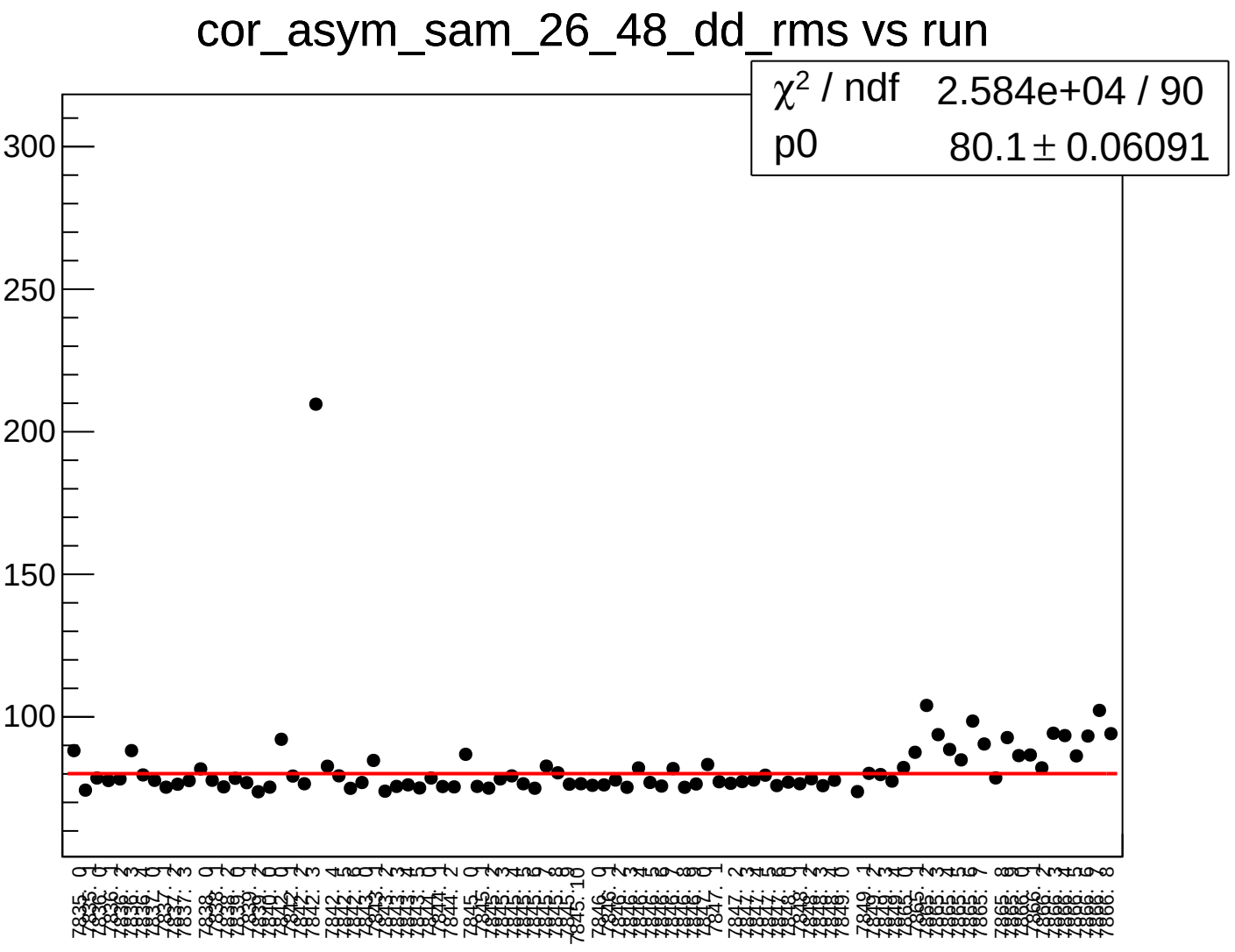

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 84.39 / 90
p0 538.3 ± 622
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 217.7
Std Dev 0
2
1
0
−1
−2

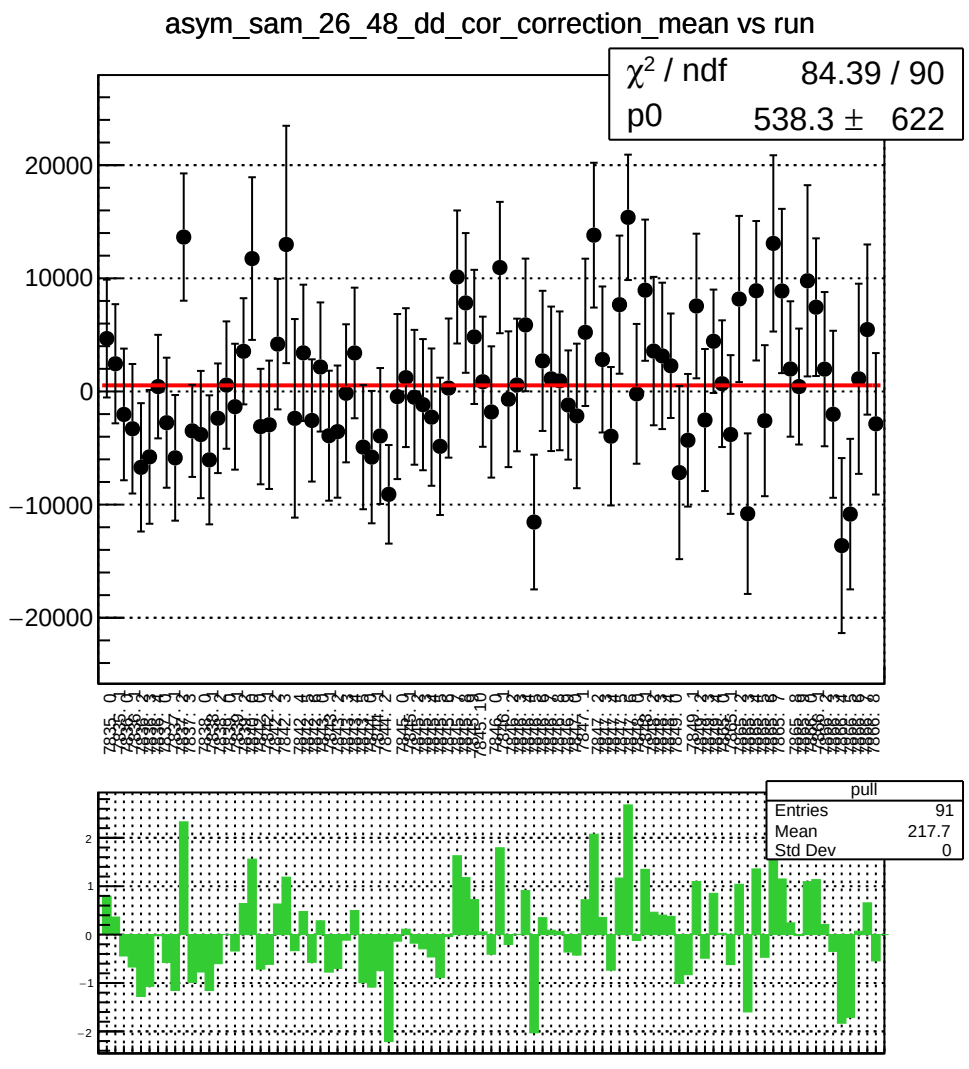

pull1D
Entries 91
Mean 0.02379
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

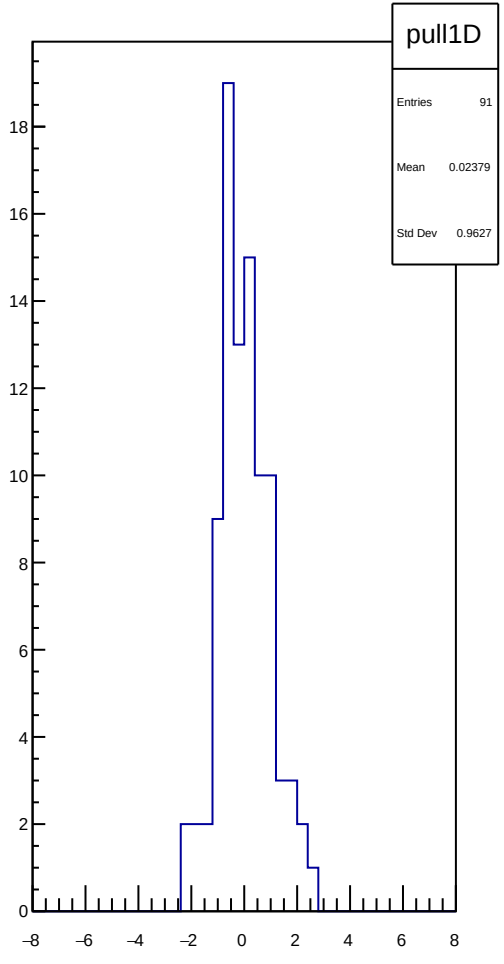

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.941e+04 / 90
p0 579.4 ± 0.4398
1000
900
800
700
600
500

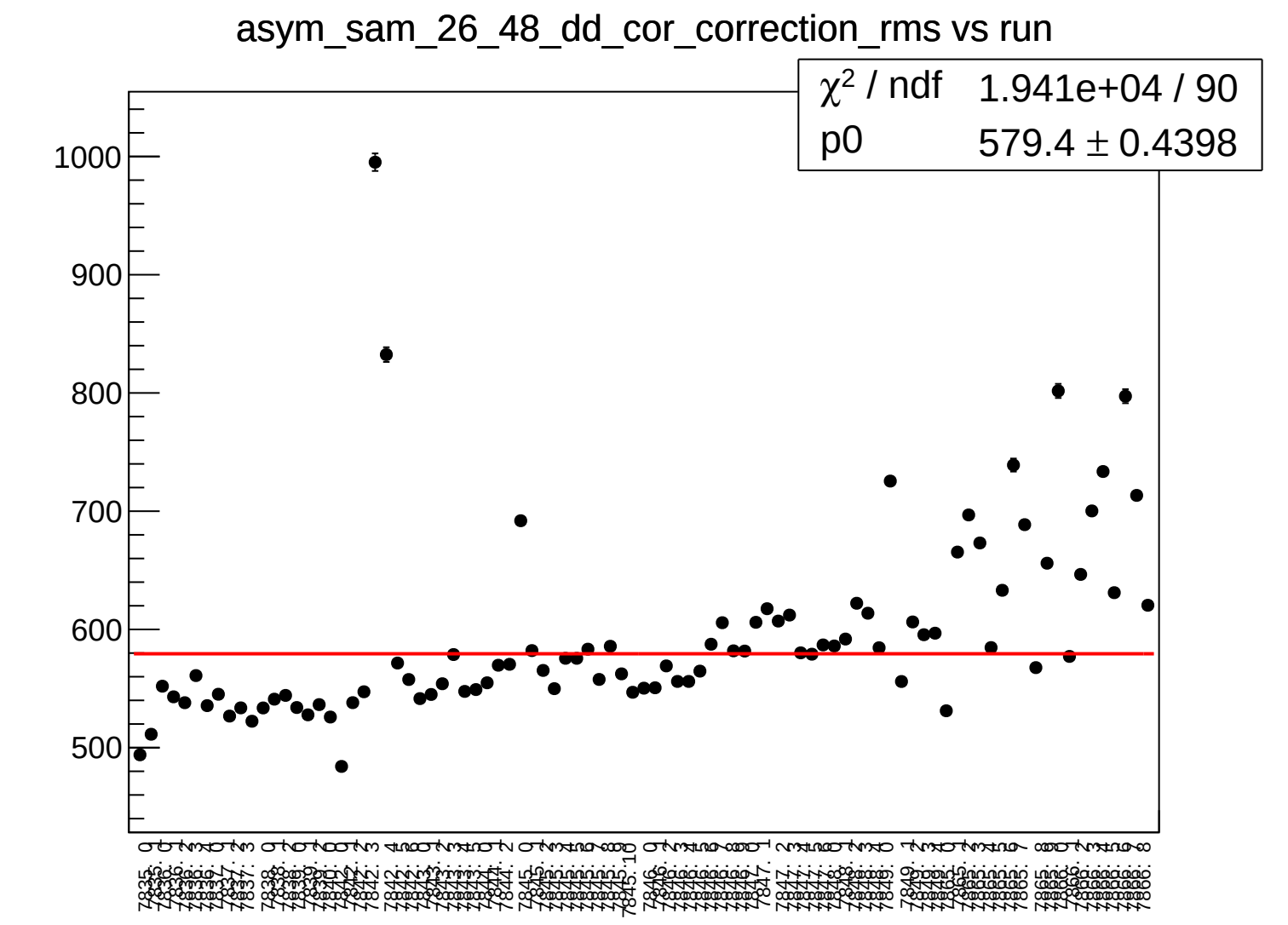

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 94.06 / 90
p0 −2.591 ± 86.14
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 176.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

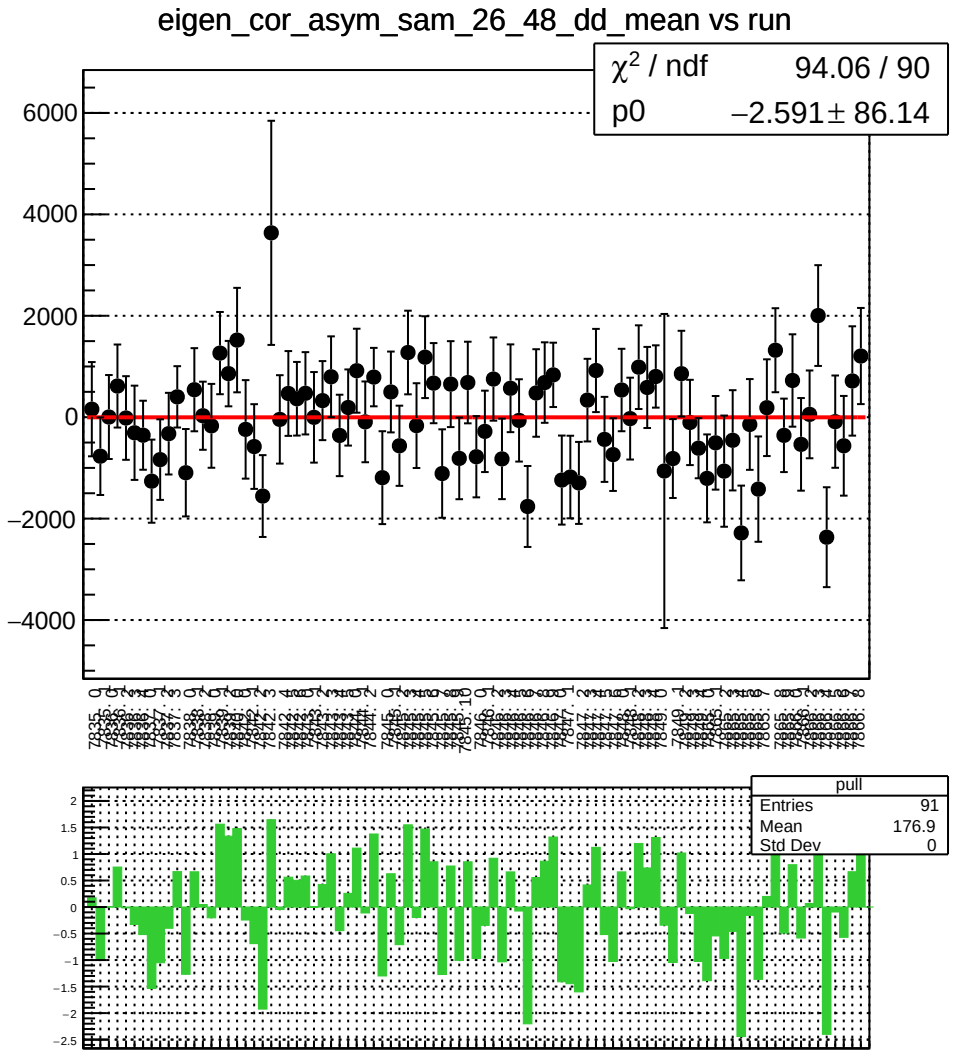

pull1D
Entries 91
Mean −0.01343
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

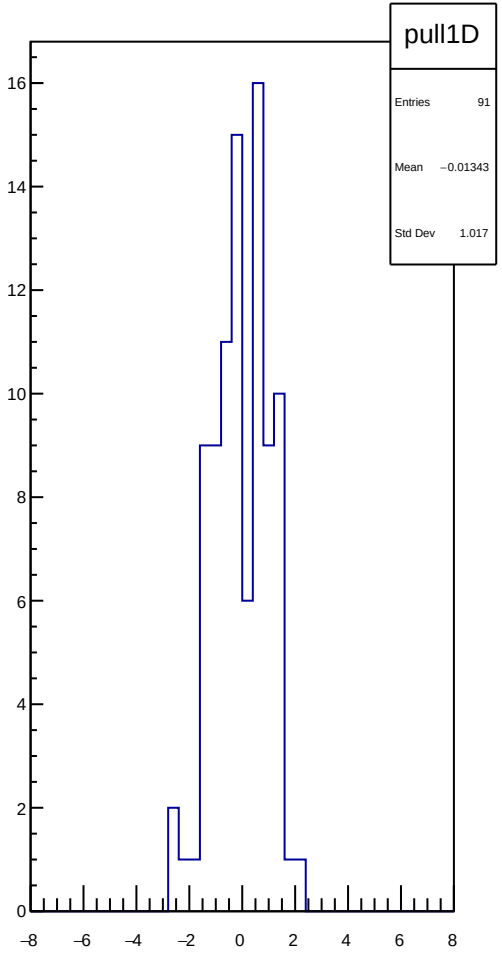

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.584e+04 / 90
p0 80.1 ± 0.06091
300
250
200
150
100

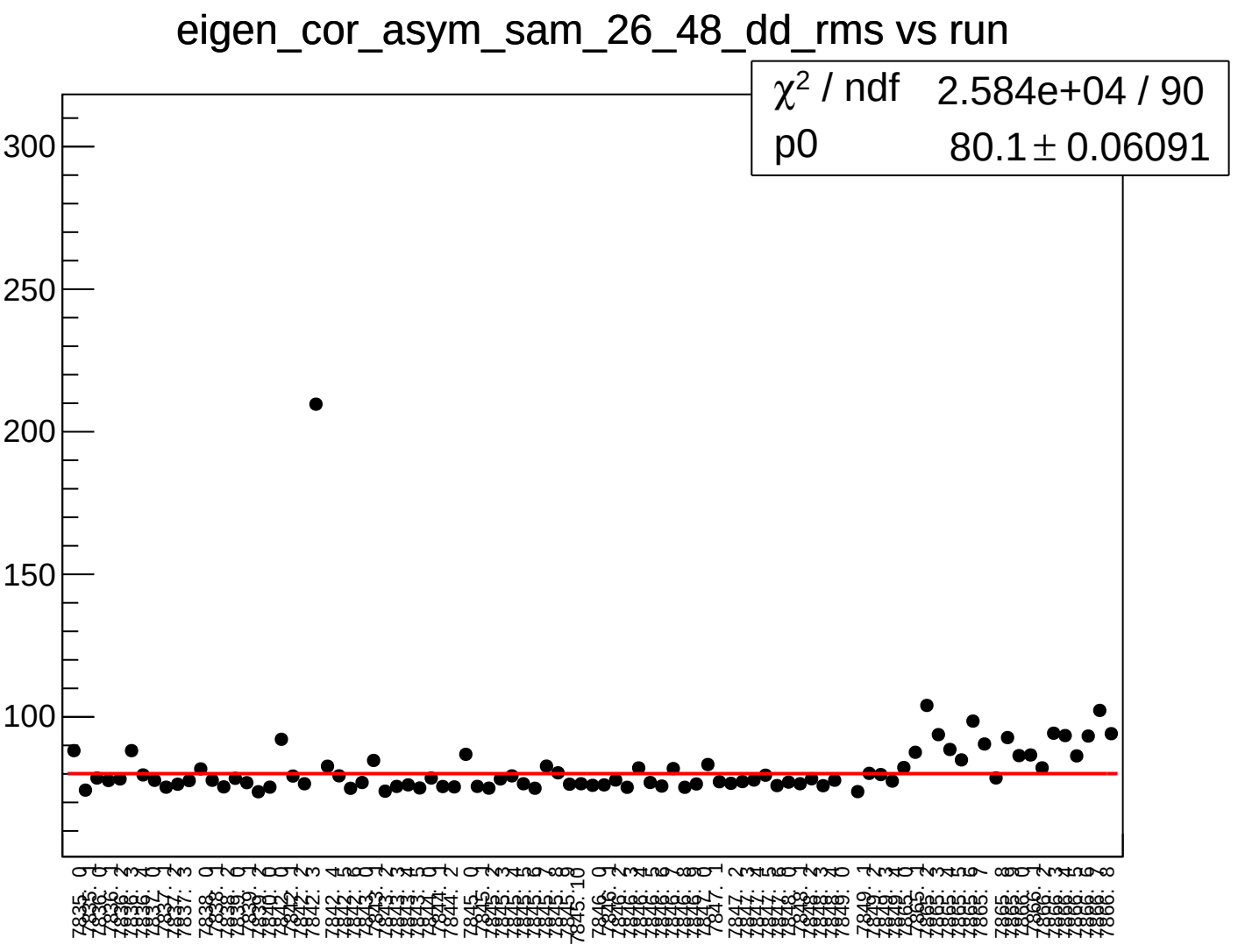

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 84.39 / 90
p0 538.3 ± 622
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 217.7
Std Dev 0
2
1
0
−1
−2

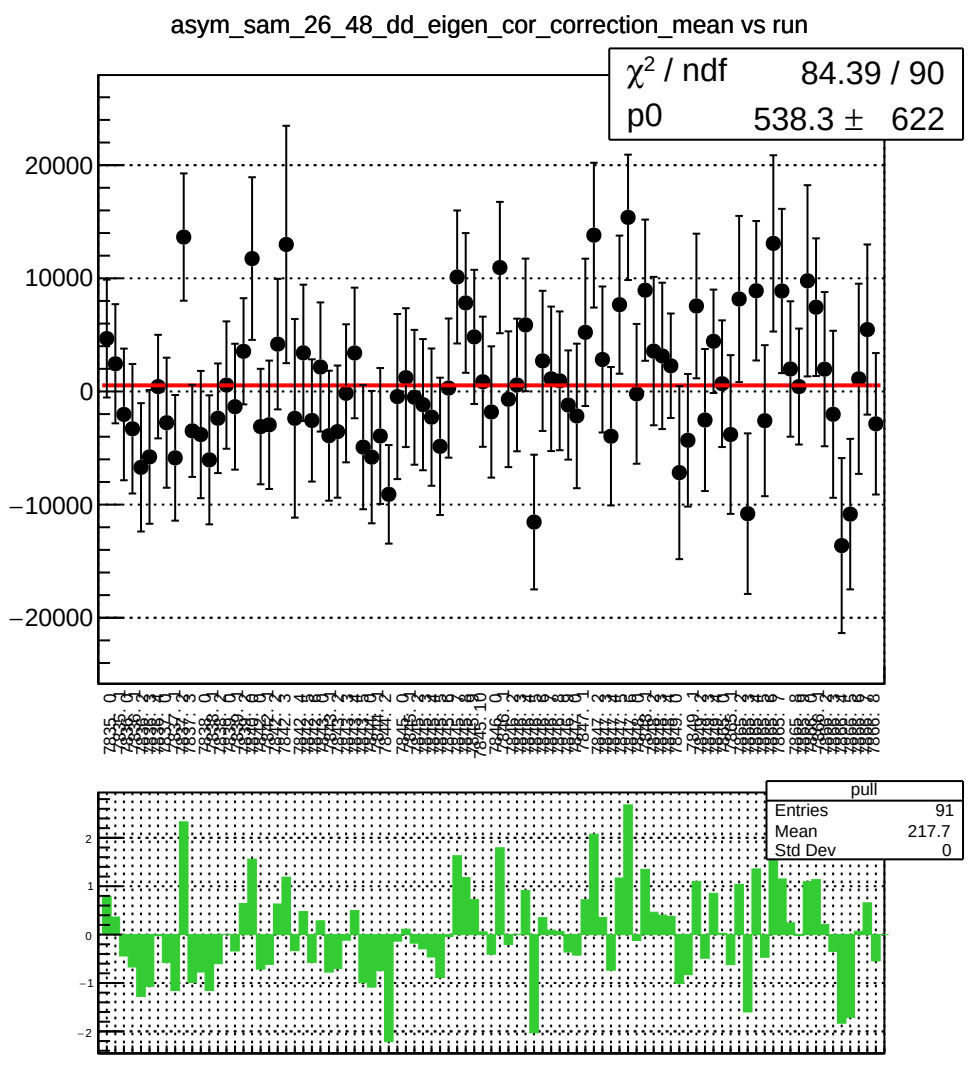

pull1D
Entries 91
Mean 0.02379
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

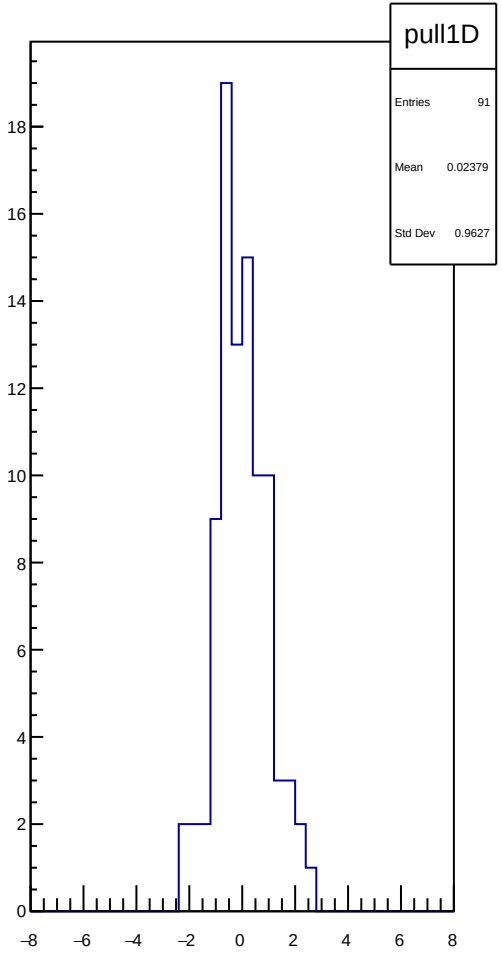

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 90
p0 579.4 ± 0.4398
1000
900
800
700
600
500

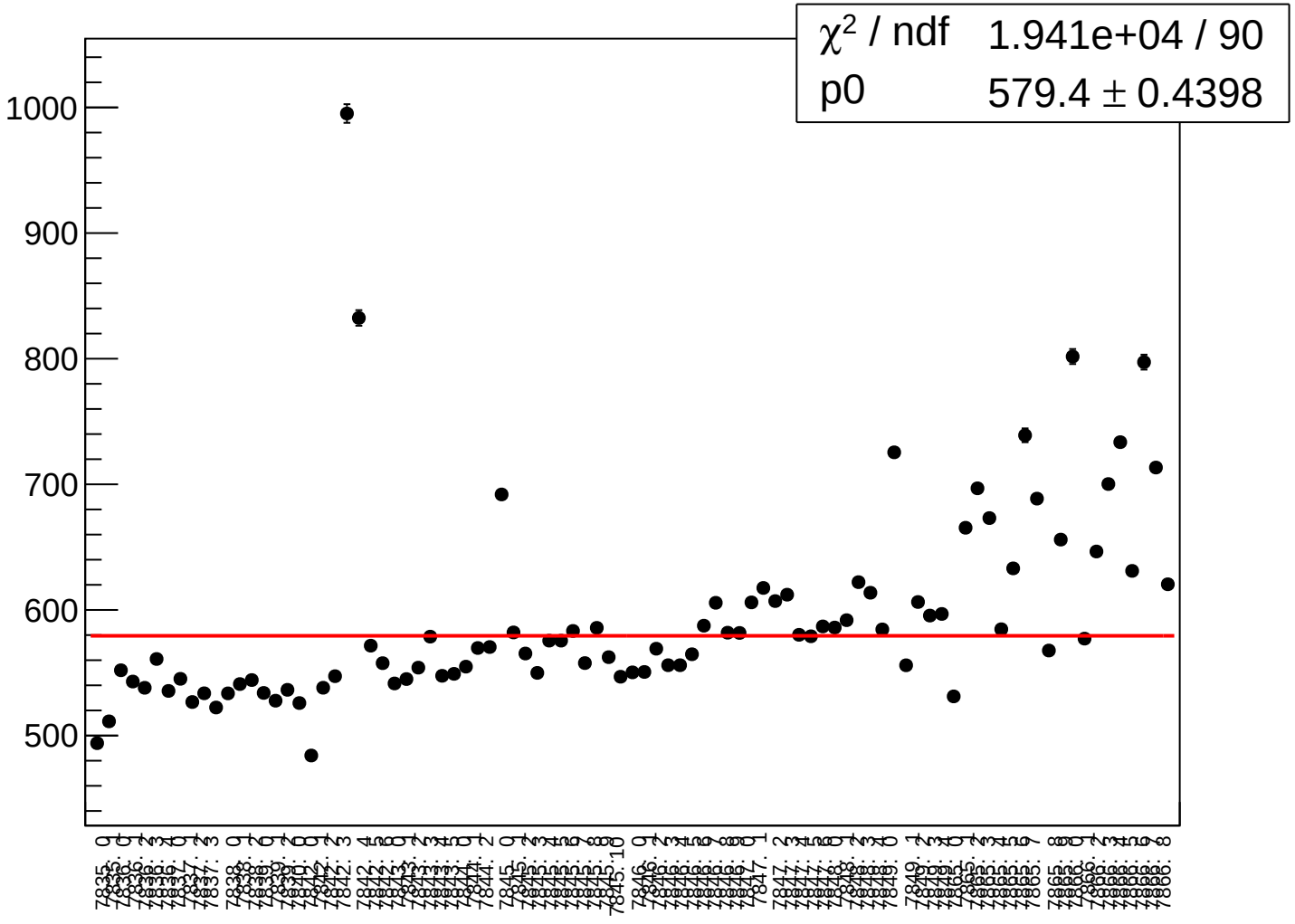

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 94.06 / 90
p0 −2.591 ± 86.14
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 176.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

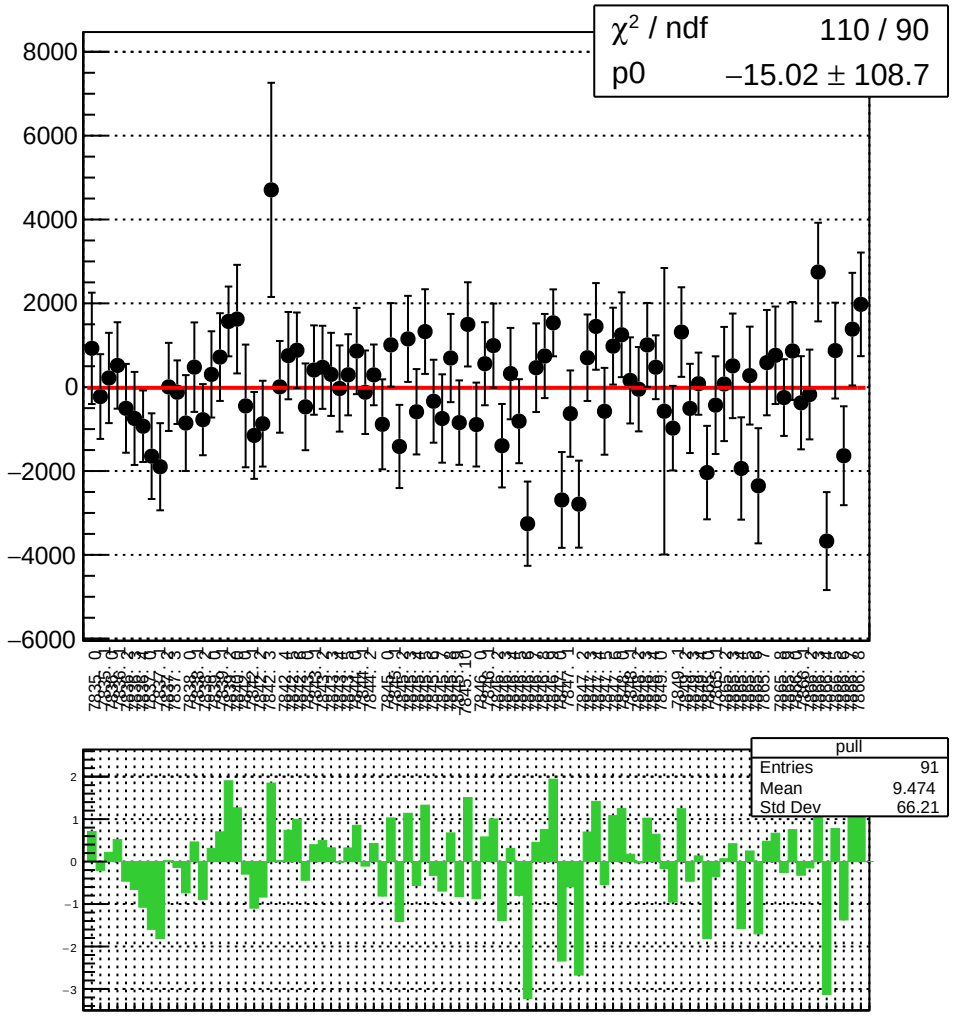

pull1D
Entries 91
Mean −0.01343
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

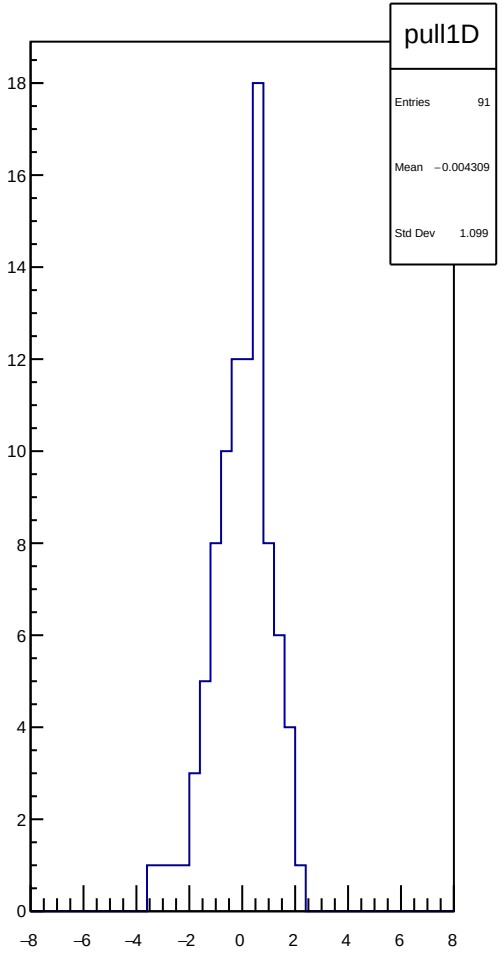

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.584e+04 / 90
p0 80.1 ± 0.06091
300
250
200
150
100

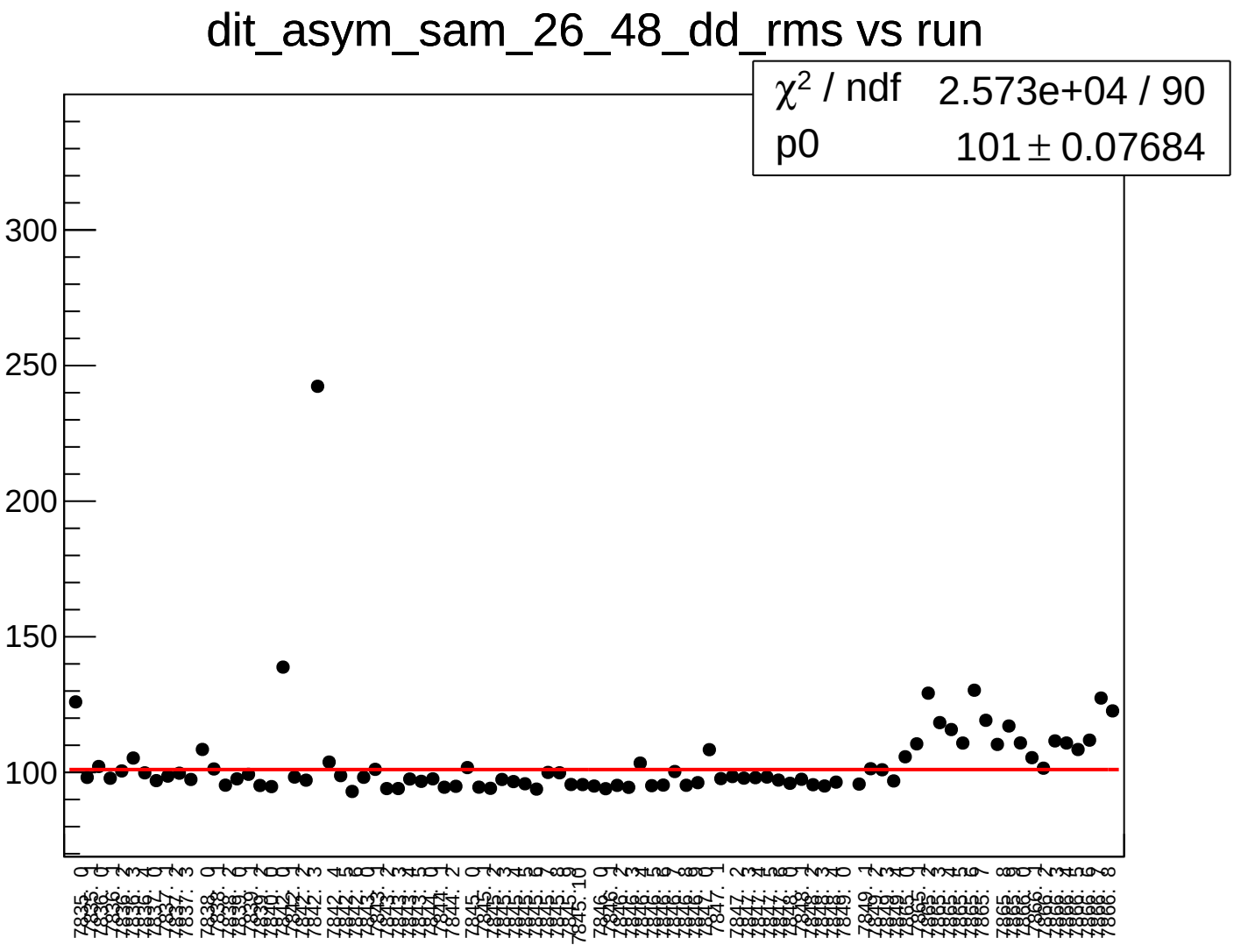

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.39 / 90
p0 538.3 ± 622
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 217.7
Std Dev 0
2
1
0
−1
−2

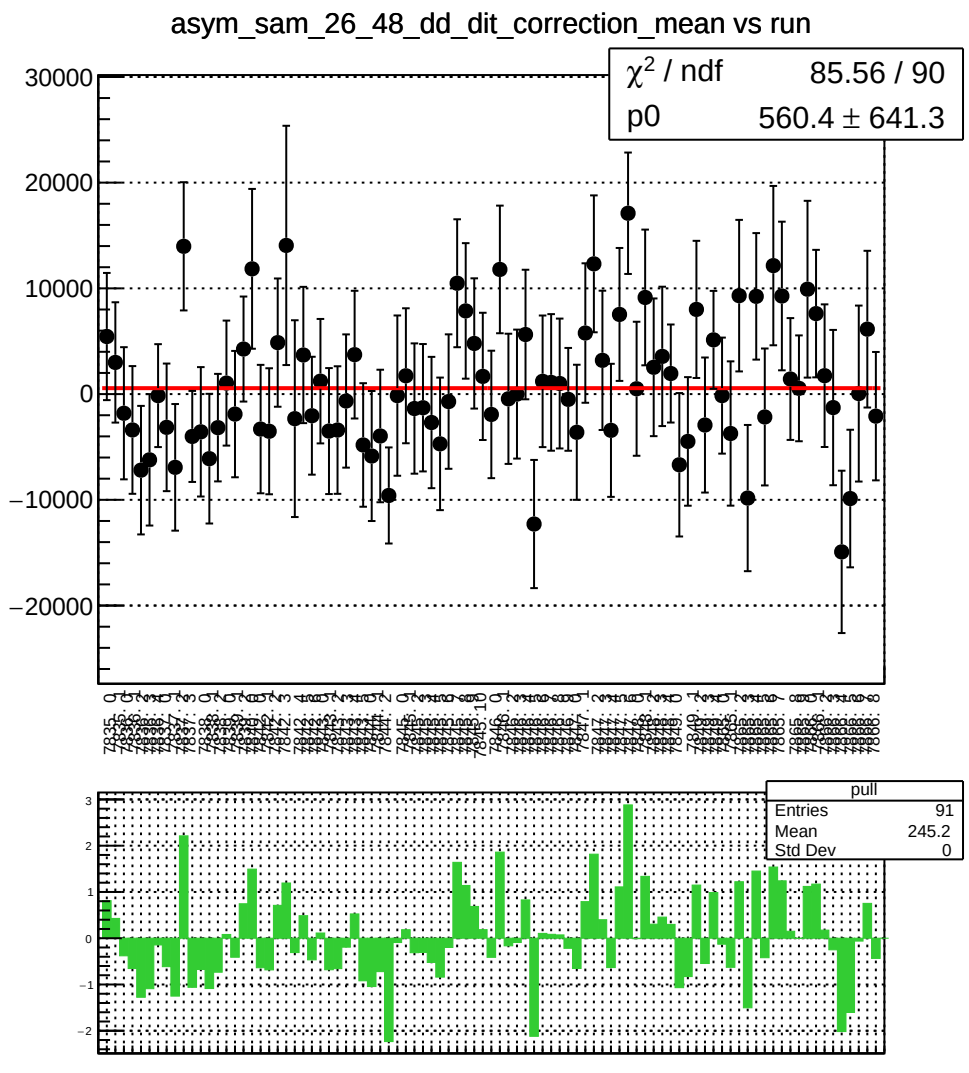

pull1D
Entries 91
Mean 0.02379
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

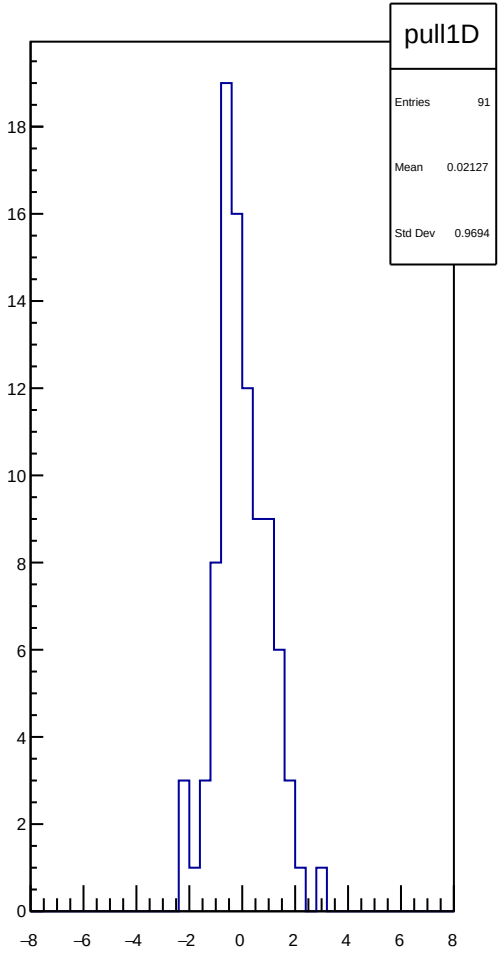

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 90
p0 579.4 ± 0.4398
1000
900
800
700
600
500

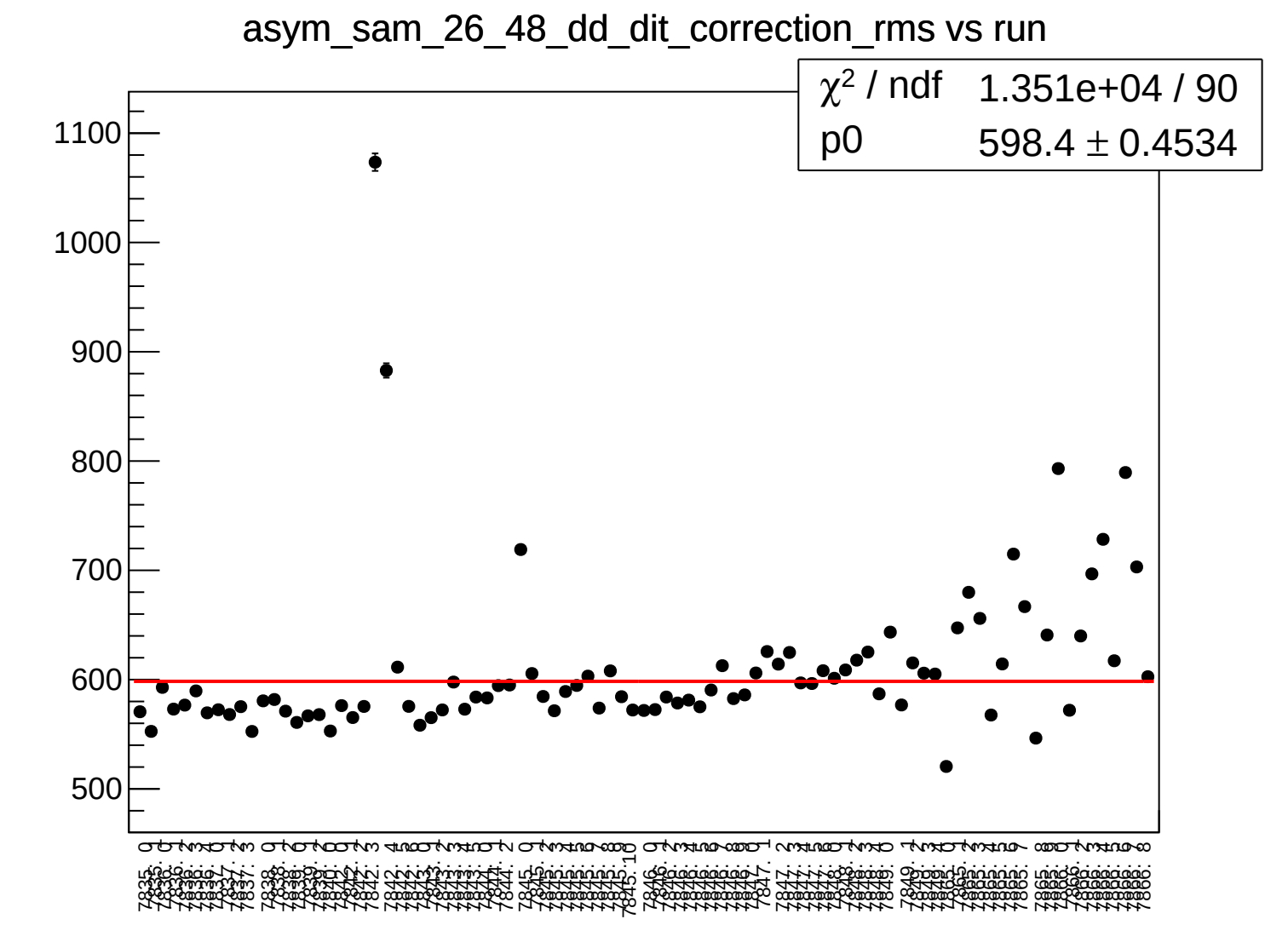

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 110 / 90
p0 −15.02 ± 108.7
pull
Entries 91
Mean 9.474
Std Dev 66.21

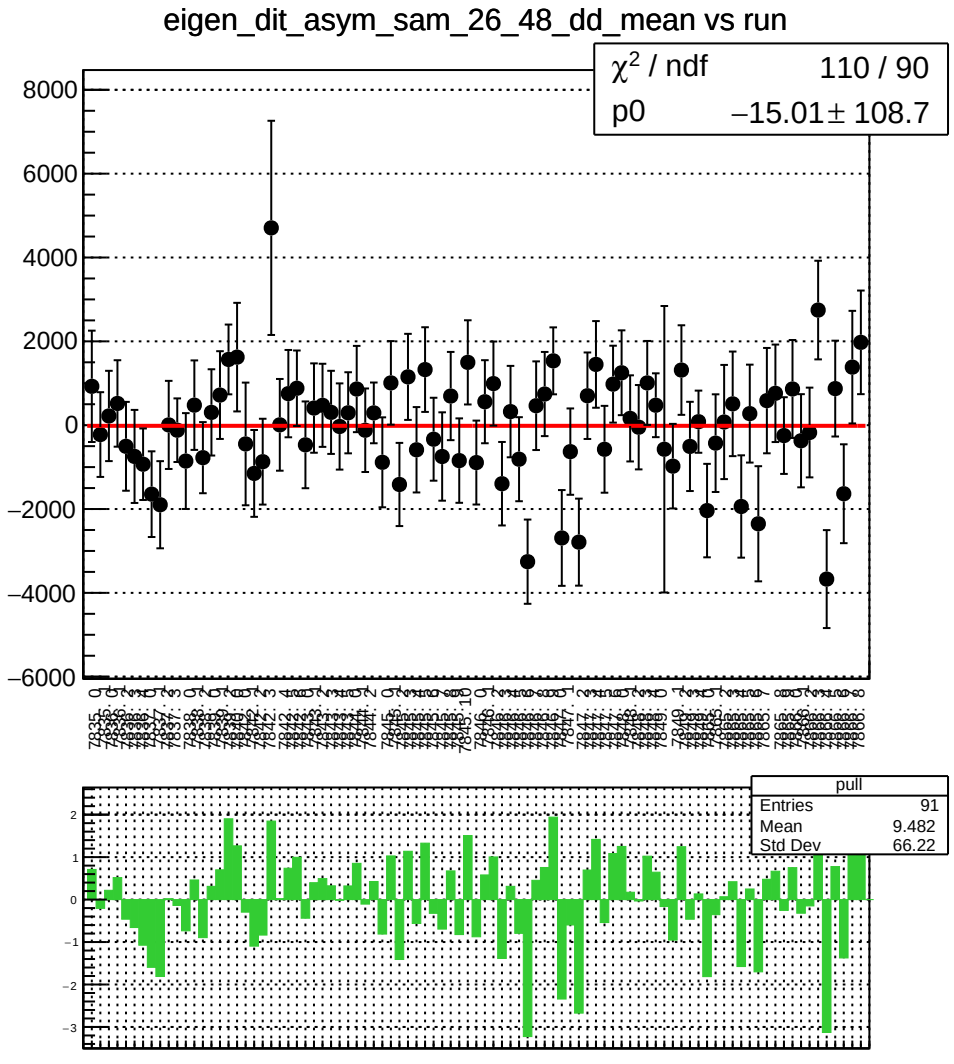

pull1D
Entries 91
Mean −0.004309
Std Dev 1.099

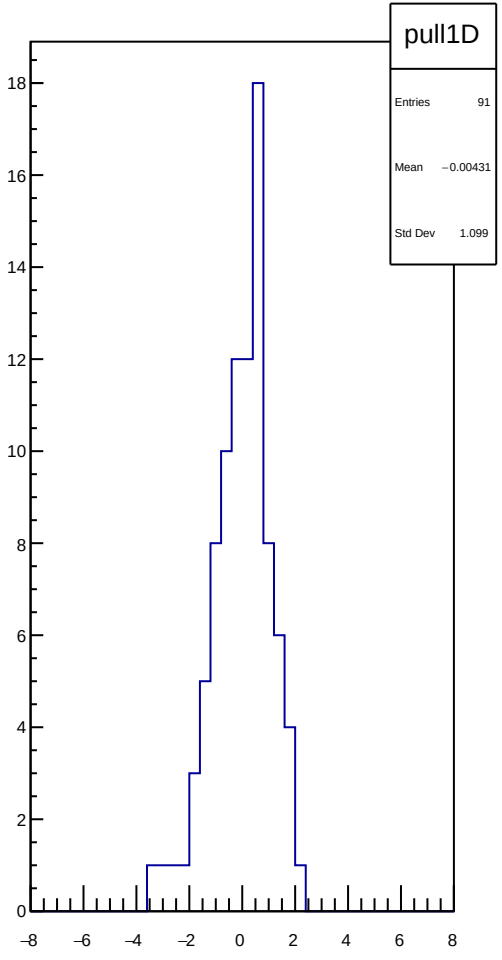

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.573e+04 / 90
p0 101 ± 0.07684
300
250
200
150
100

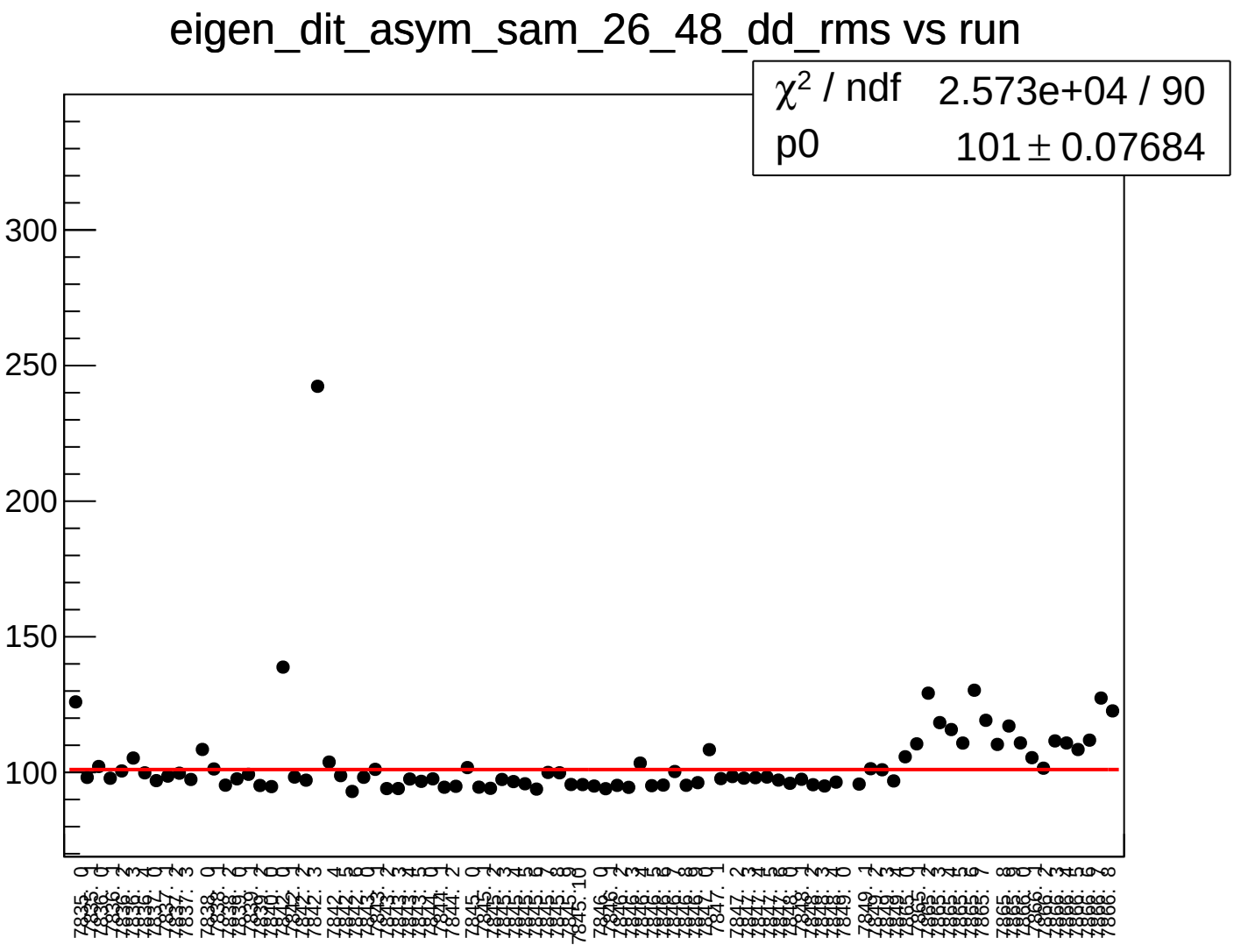

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 85.56 / 90
p0 560.4 ± 641.3
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 245.2
Std Dev 0
3
2
1
0
−1
−2

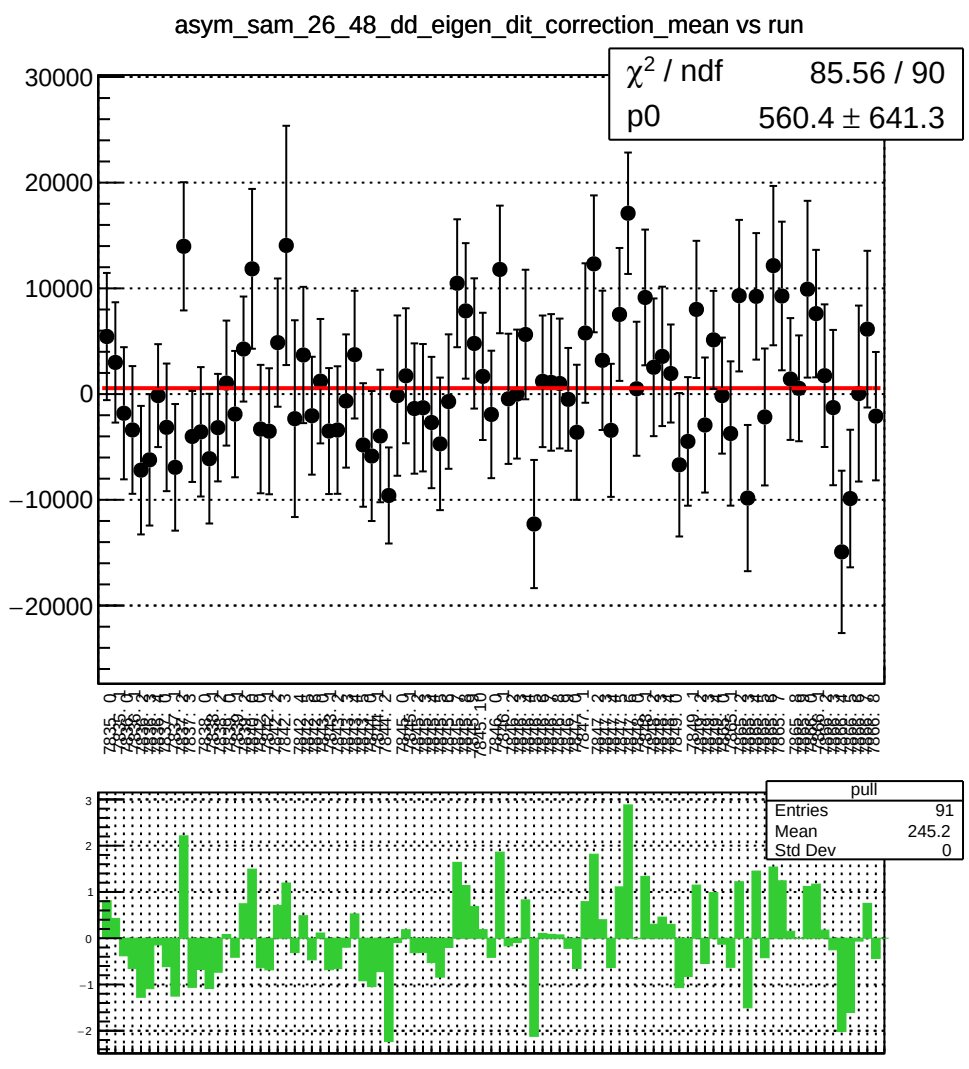

pull1D
Entries 91
Mean 0.02127
Std Dev 0.9694
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

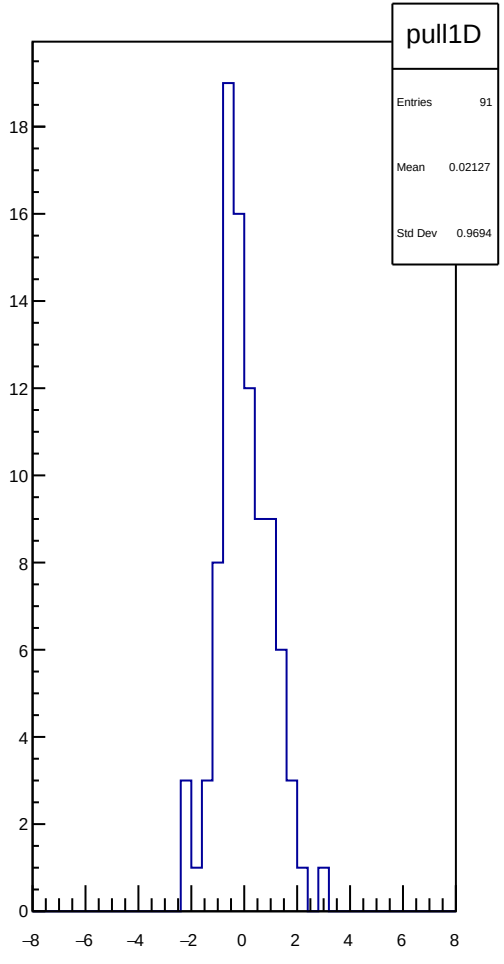

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.351e+04 / 90
p0 598.4 ± 0.4534
1100
1000
900
800
700
600
500

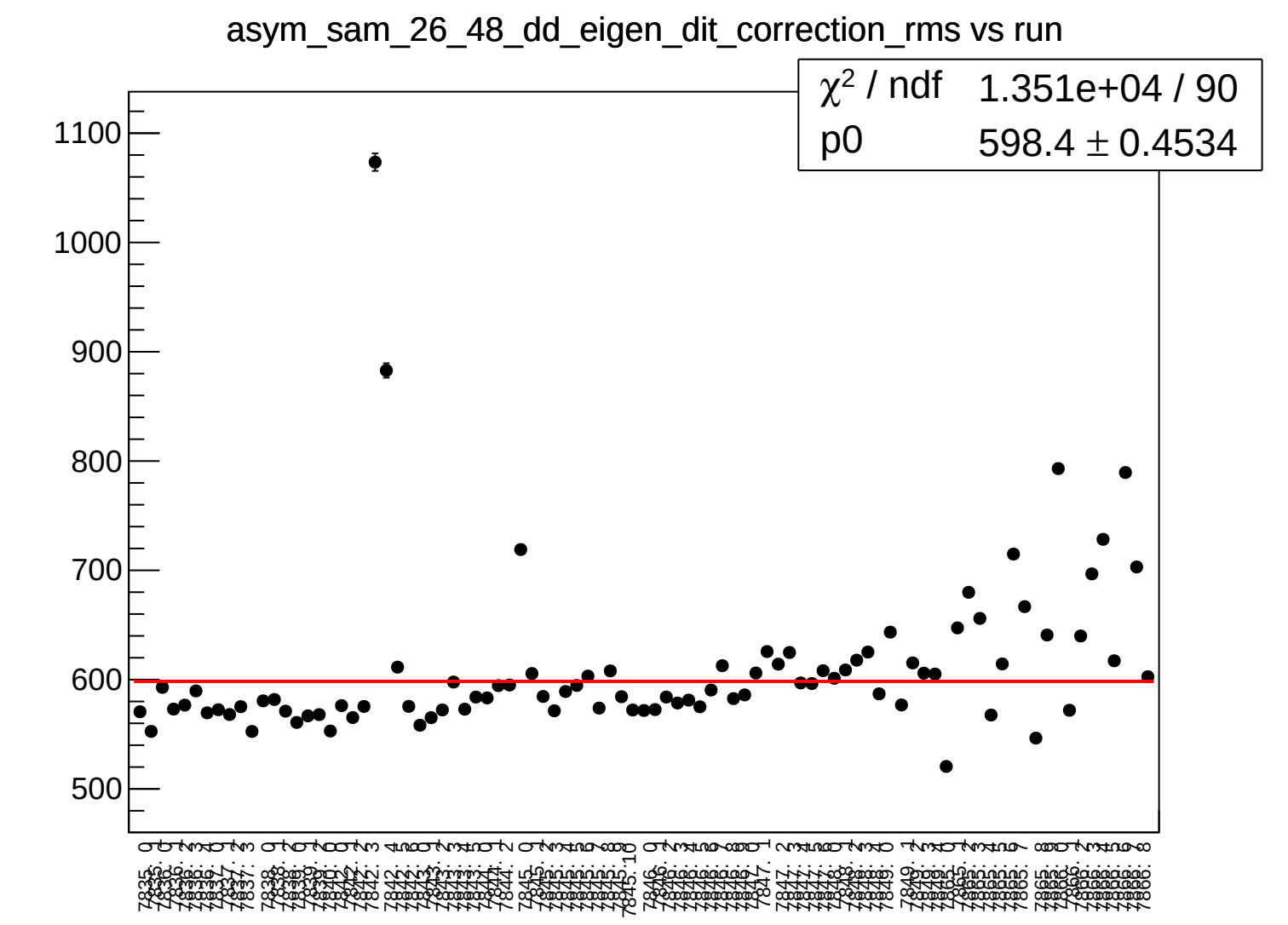

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 110 / 90
p0 −15.01± 108.7
pull
Entries 91
Mean 9.482
Std Dev 66.22

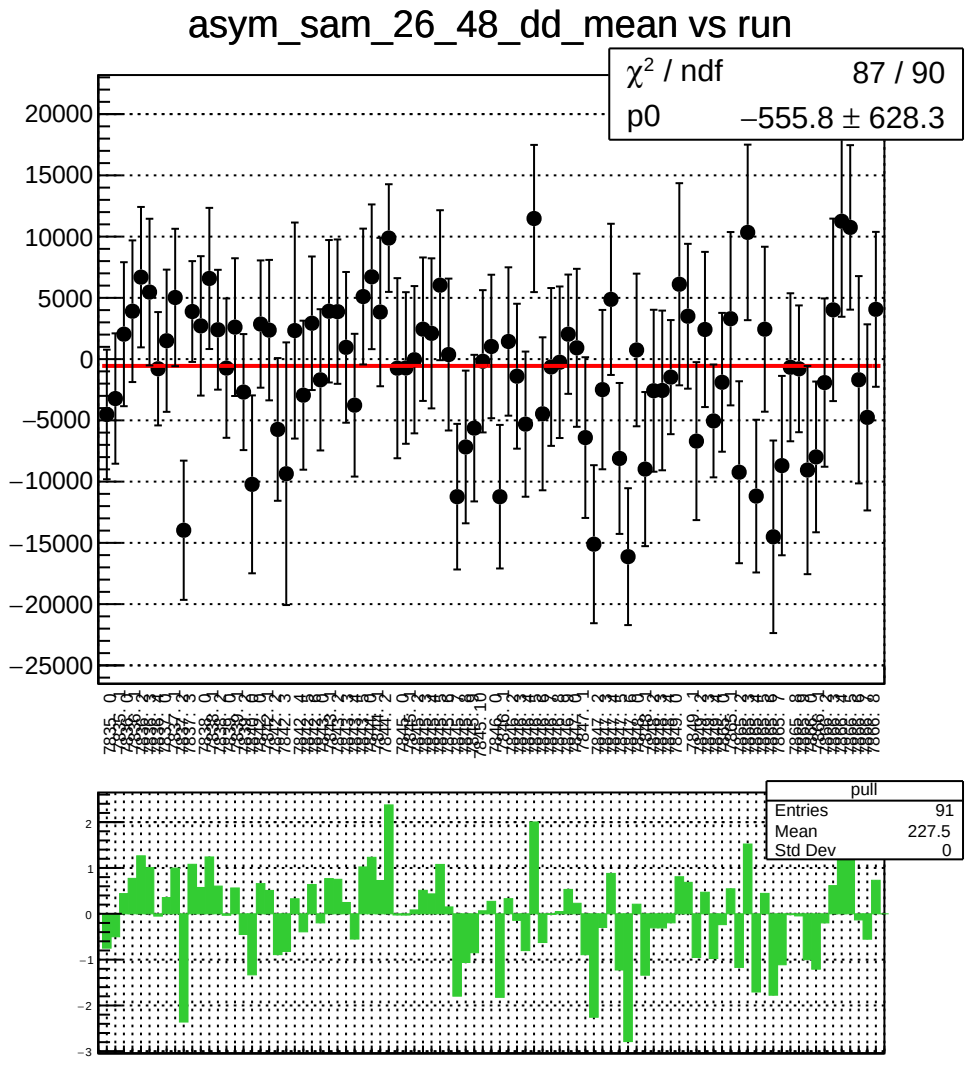

pull1D
Entries 91
Mean −0.00431
Std Dev 1.099

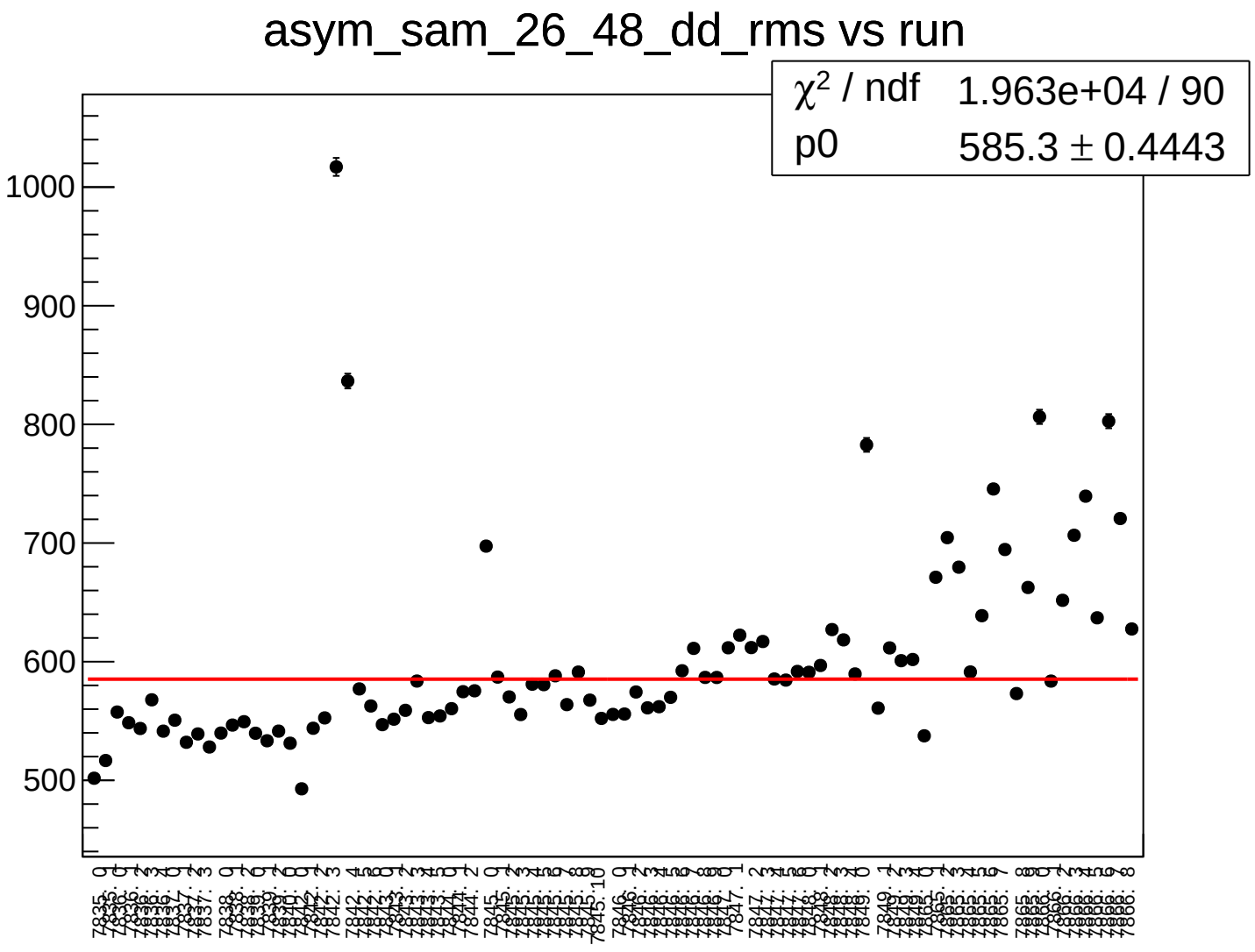

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.573e+04 / 90
p0 101 ± 0.07684
300
250
200
150
100

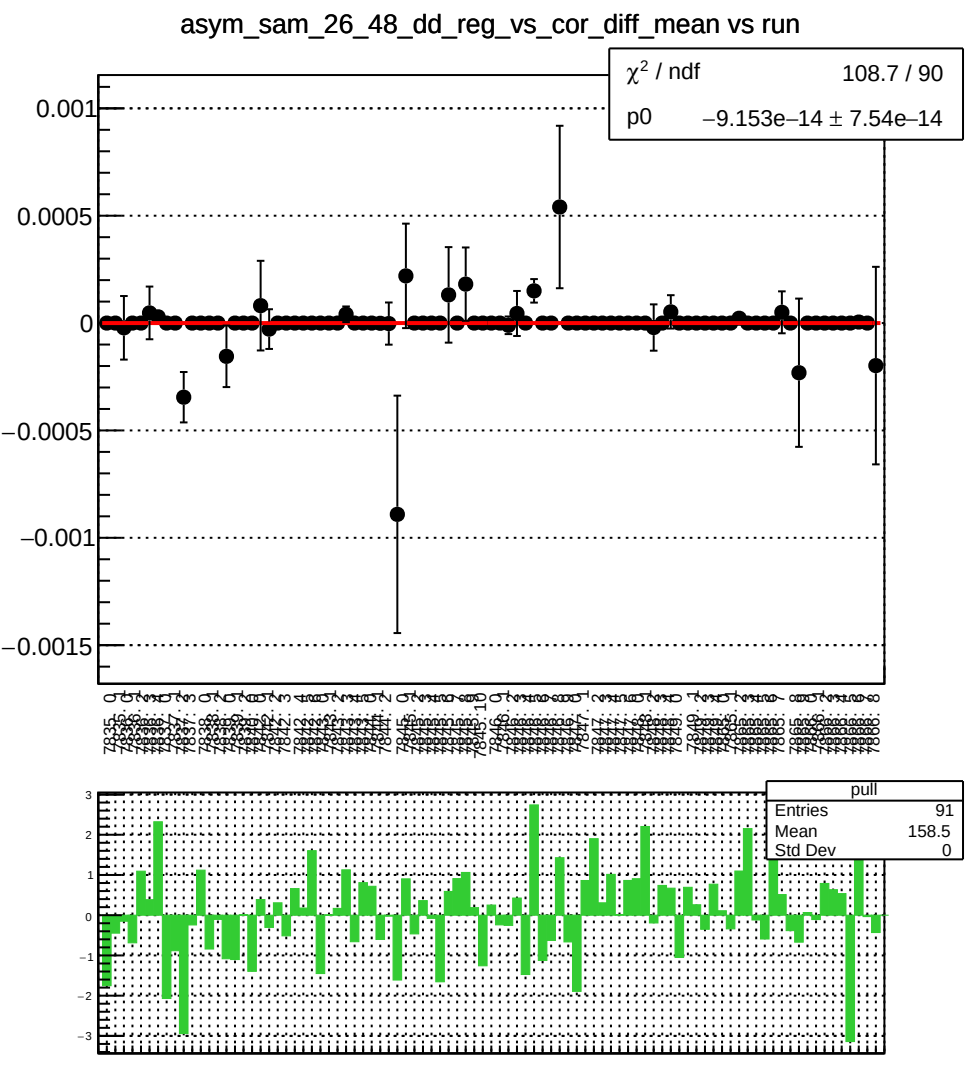

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.56 / 90
p0 560.4 ± 641.3
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 245.2
Std Dev 0
3
2
1
0
−1
−2

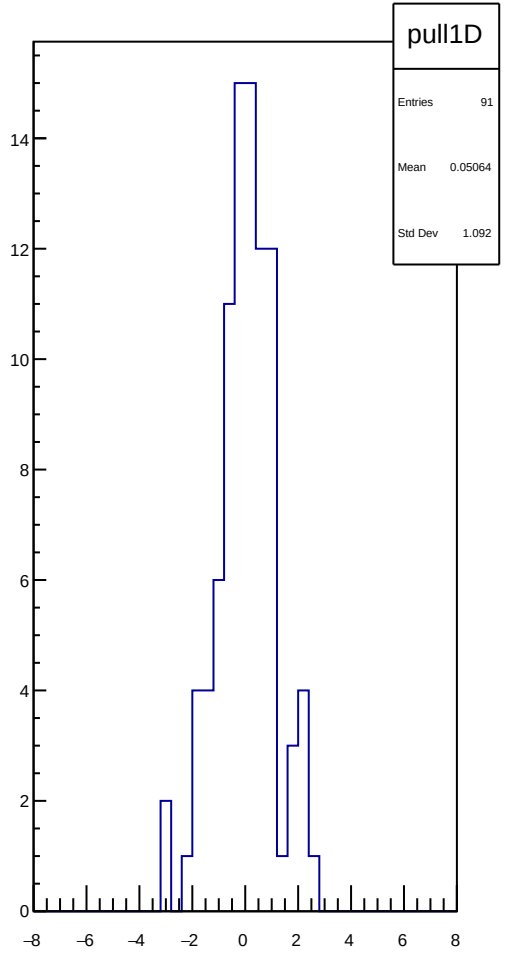

pull1D
Entries 91
Mean 0.02127
Std Dev 0.9694
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

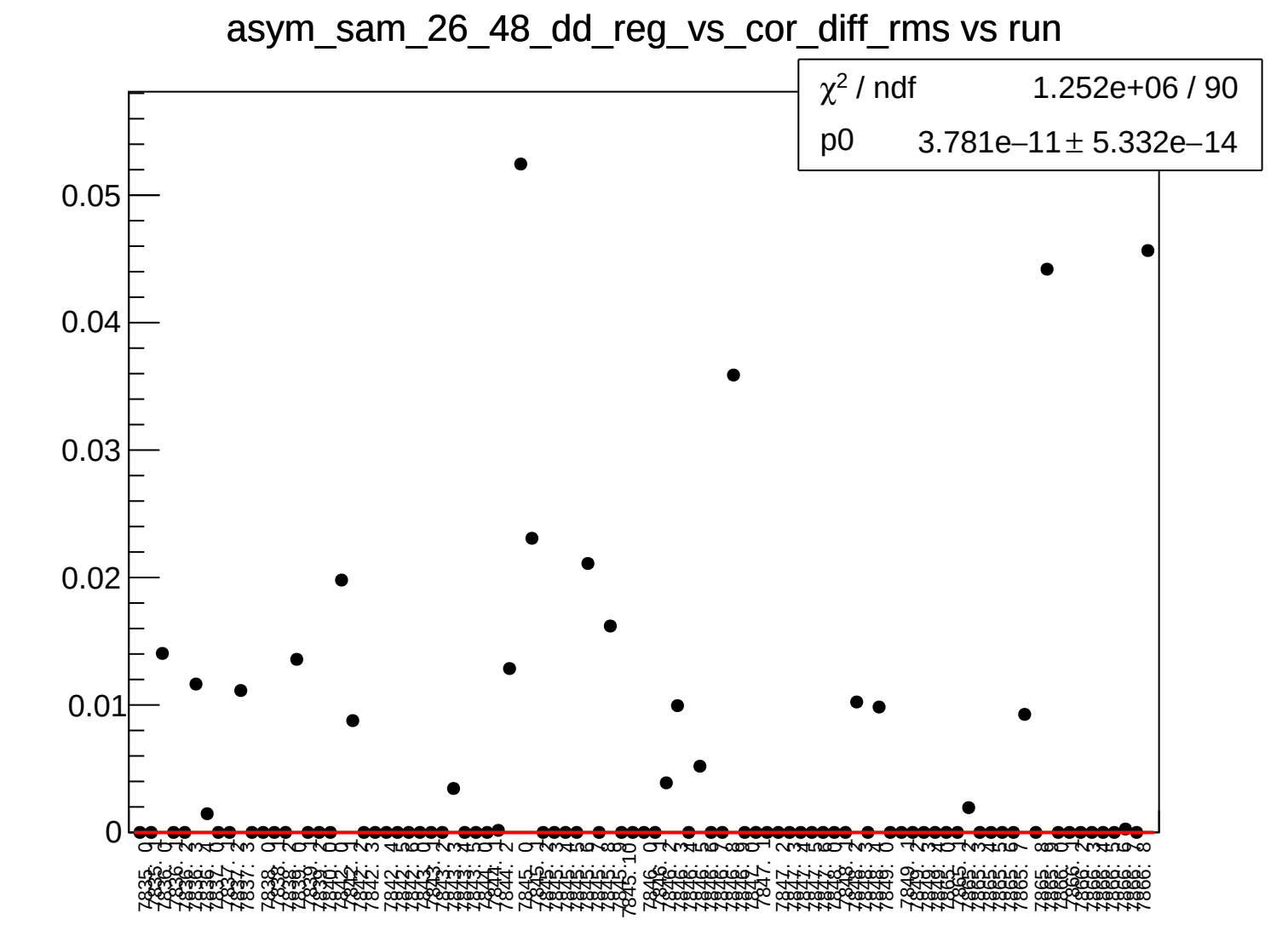

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.351e+04 / 90
p0 598.4 ± 0.4534
1100
1000
900
800
700
600
500

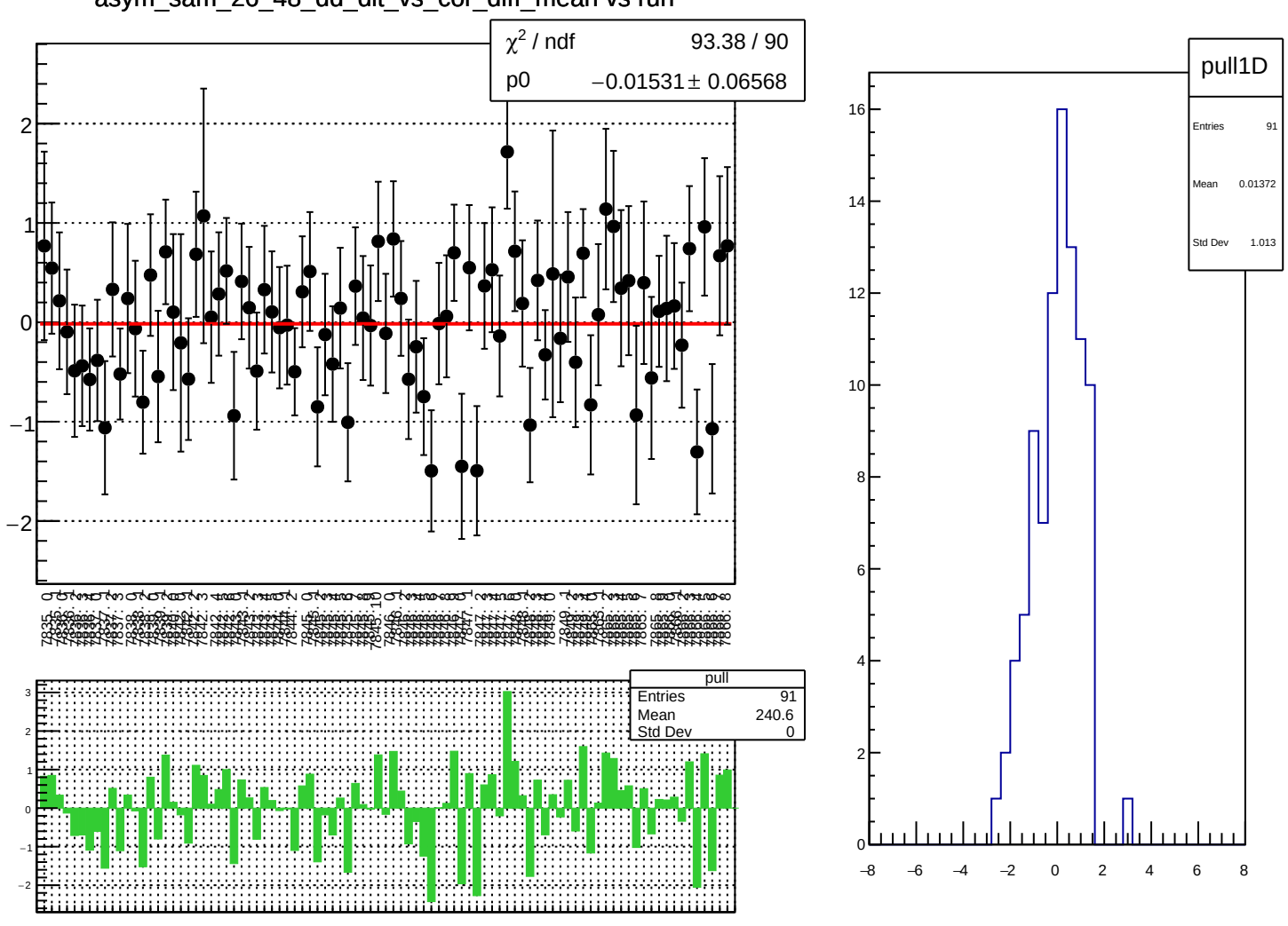

asym_sam_26_48_dd_mean vs run
χ² / ndf 87 / 90
p0 −555.8 ± 628.3
pull
Entries 91
Mean 227.5
Std Dev 0
pull1D
Entries 91
Mean −0.024
Std Dev 0.9775

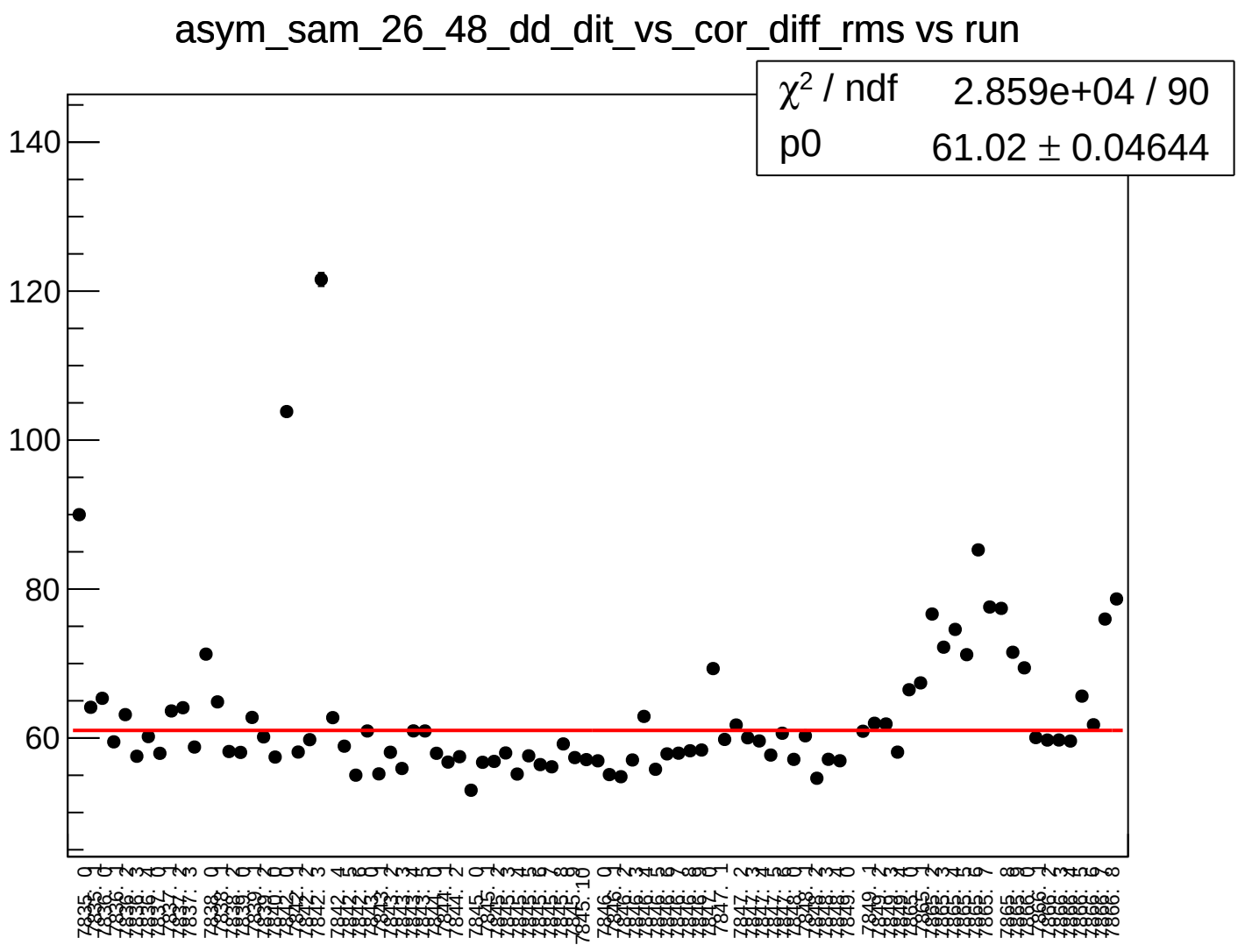

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.963e+04 / 90
p0 585.3 ± 0.4443
1000
900
800
700
600
500

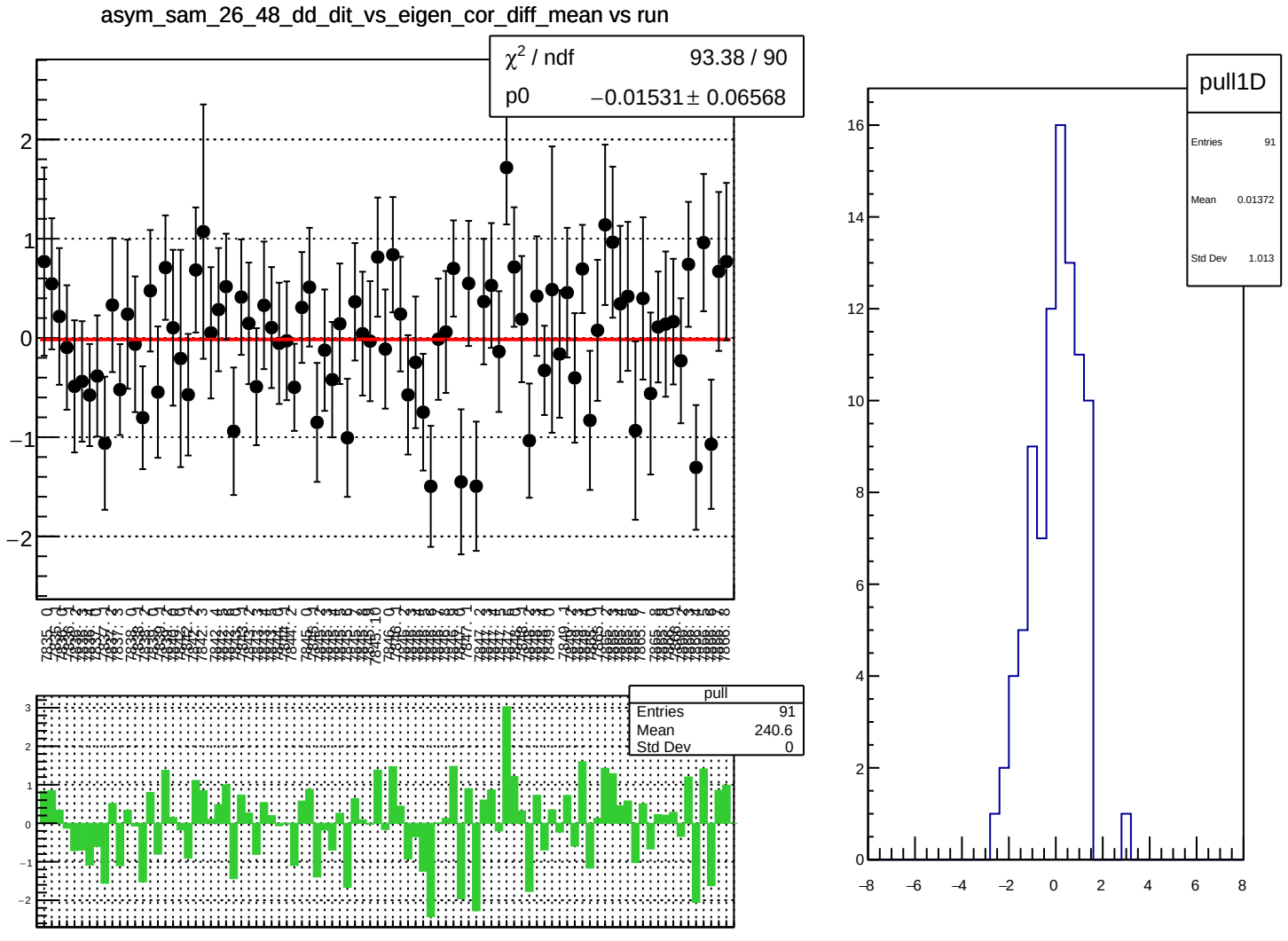

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 90
p0 −9.153e−14 ± 7.54e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 158.5
Std Dev 0
3
2
1
0
−1
−2
−3

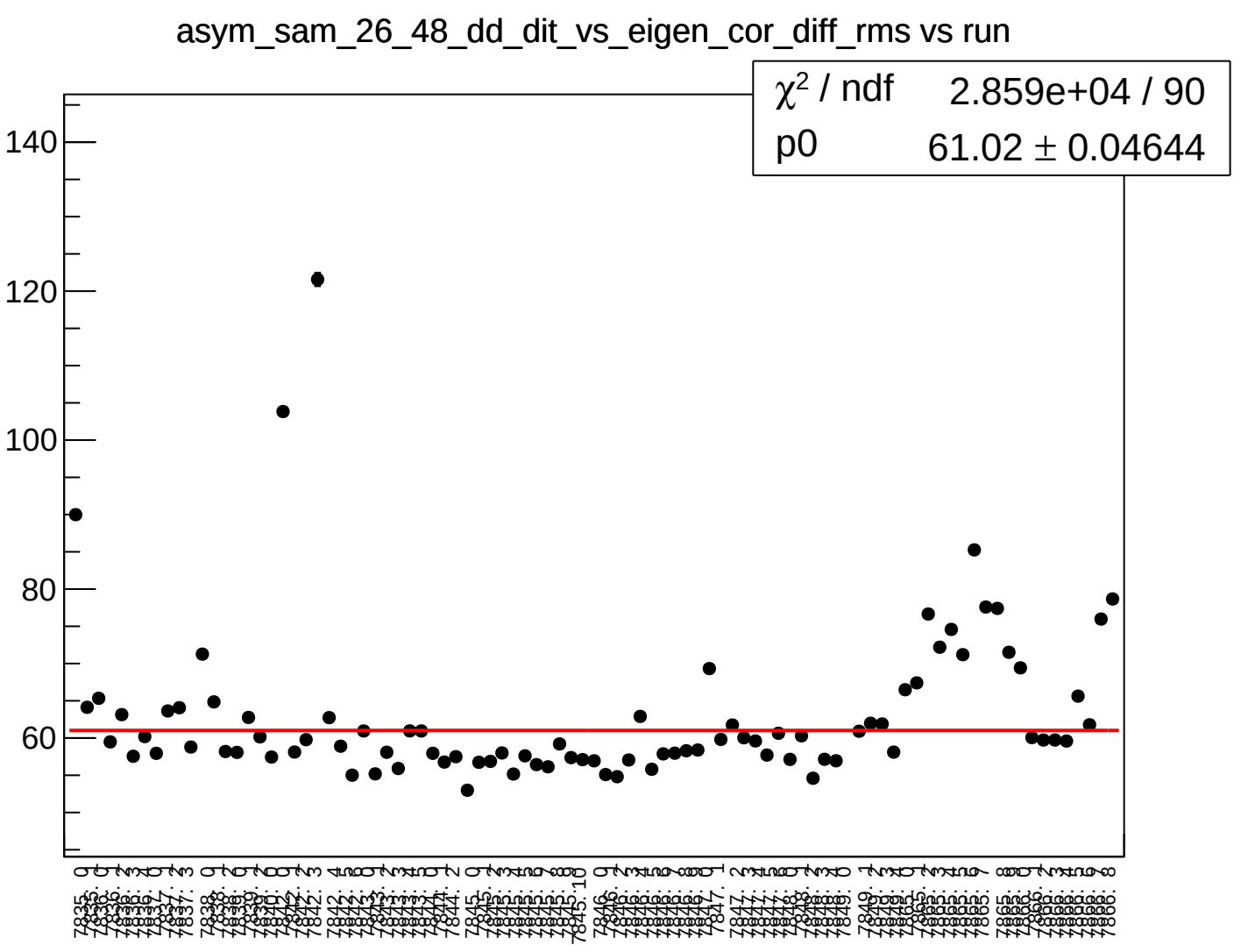

pull1D
Entries 91
Mean 0.05064
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

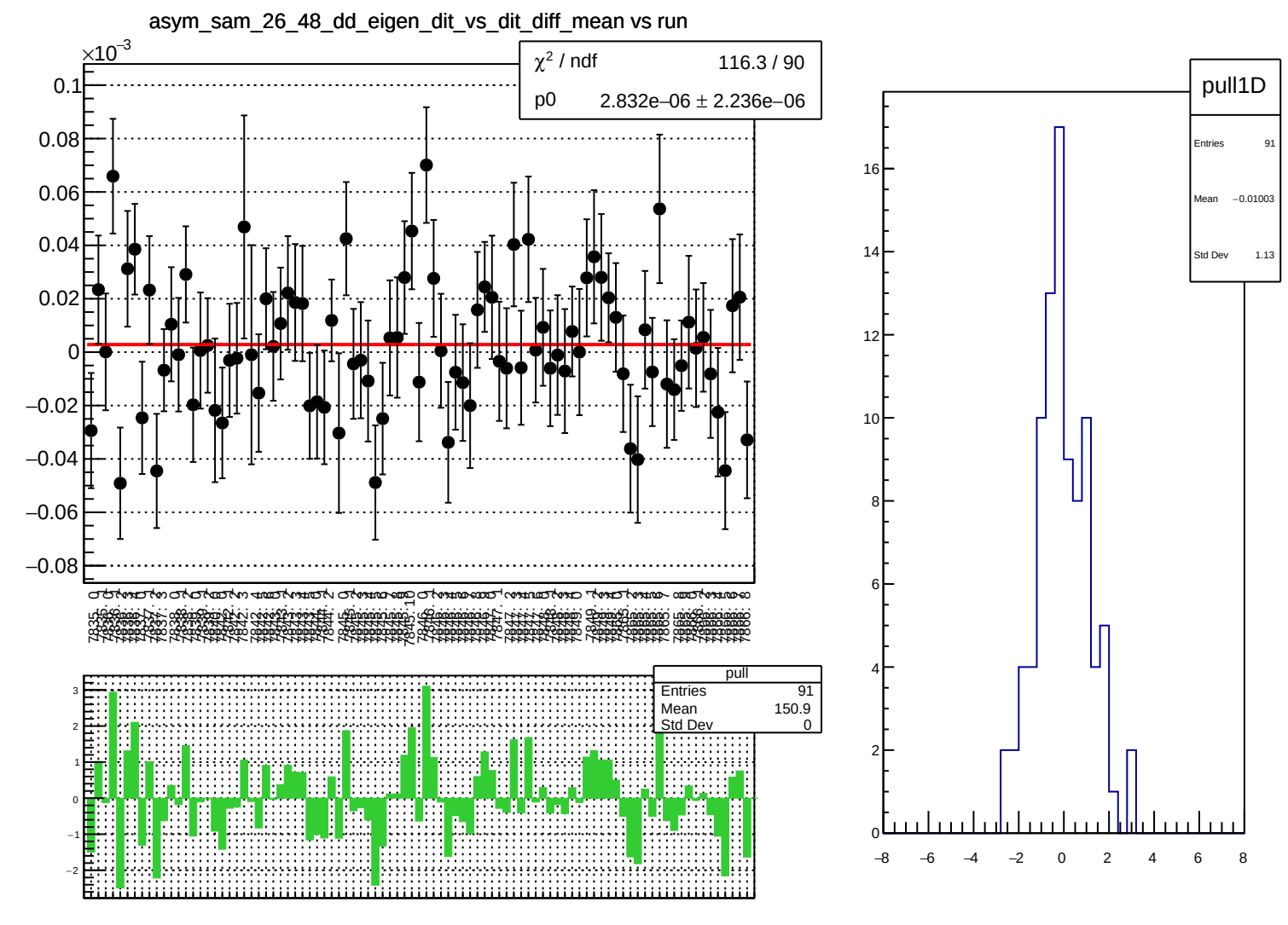

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.252e+06 / 90
p0 3.781e−11 ± 5.332e−14
0.05
0.04
0.03
0.02
0.01
0

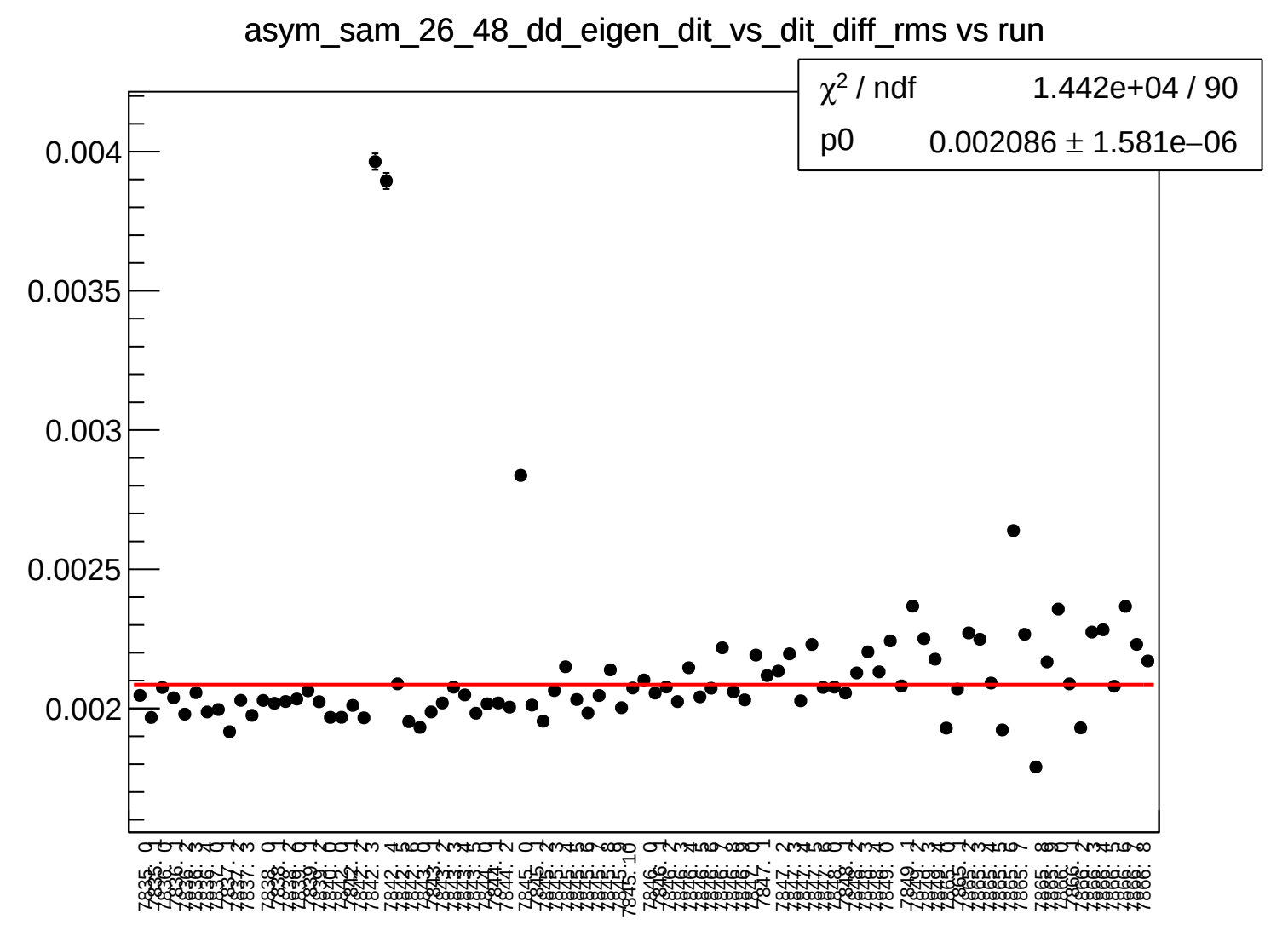

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.38 / 90
p0 −0.01531 ± 0.06568
pull
Entries 91
Mean 240.6
Std Dev 0
pull1D
Entries 91
Mean 0.01372
Std Dev 1.013

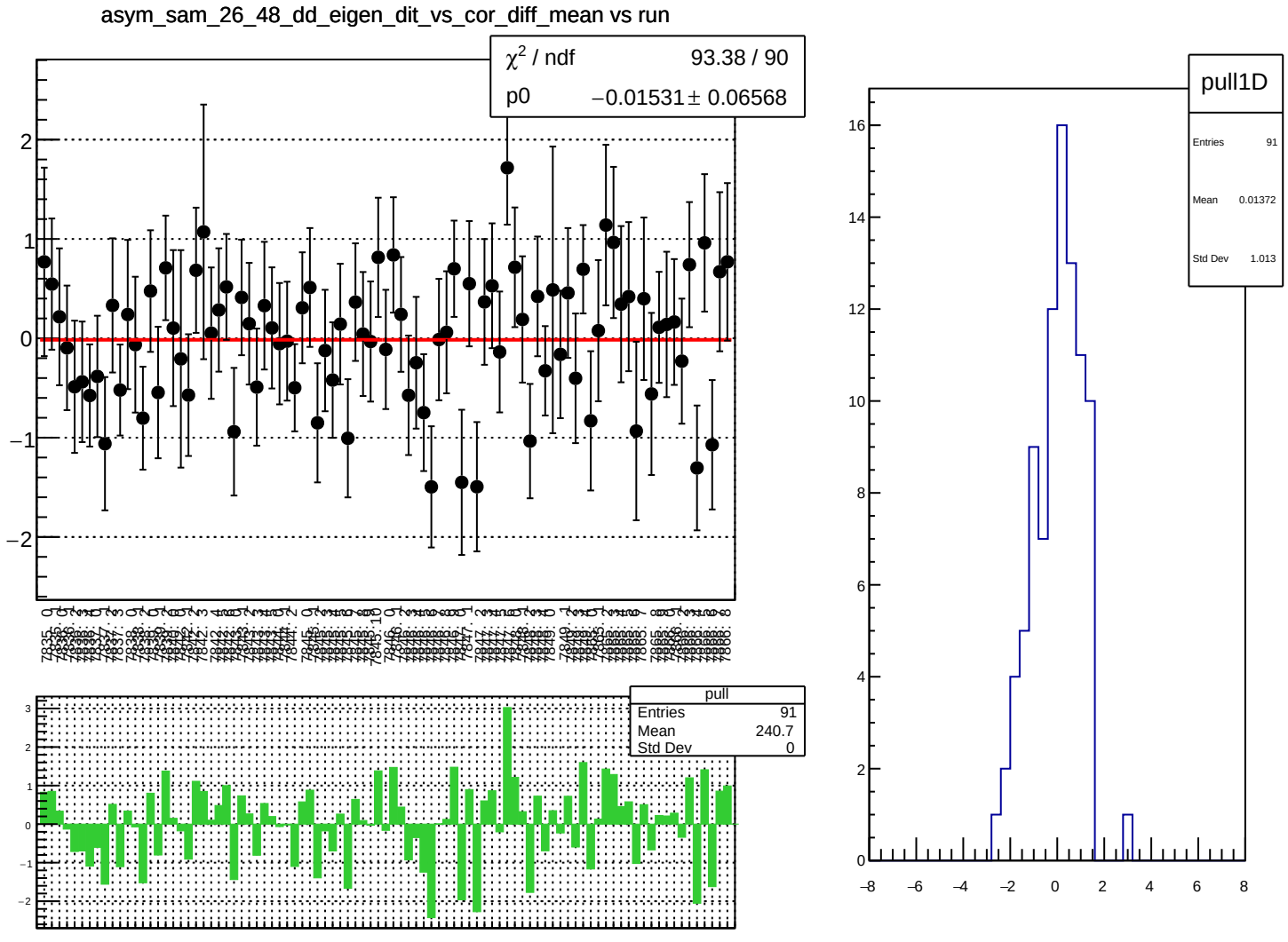

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.859e+04 / 90
p0 61.02 ± 0.04644
140
120
100
80
60

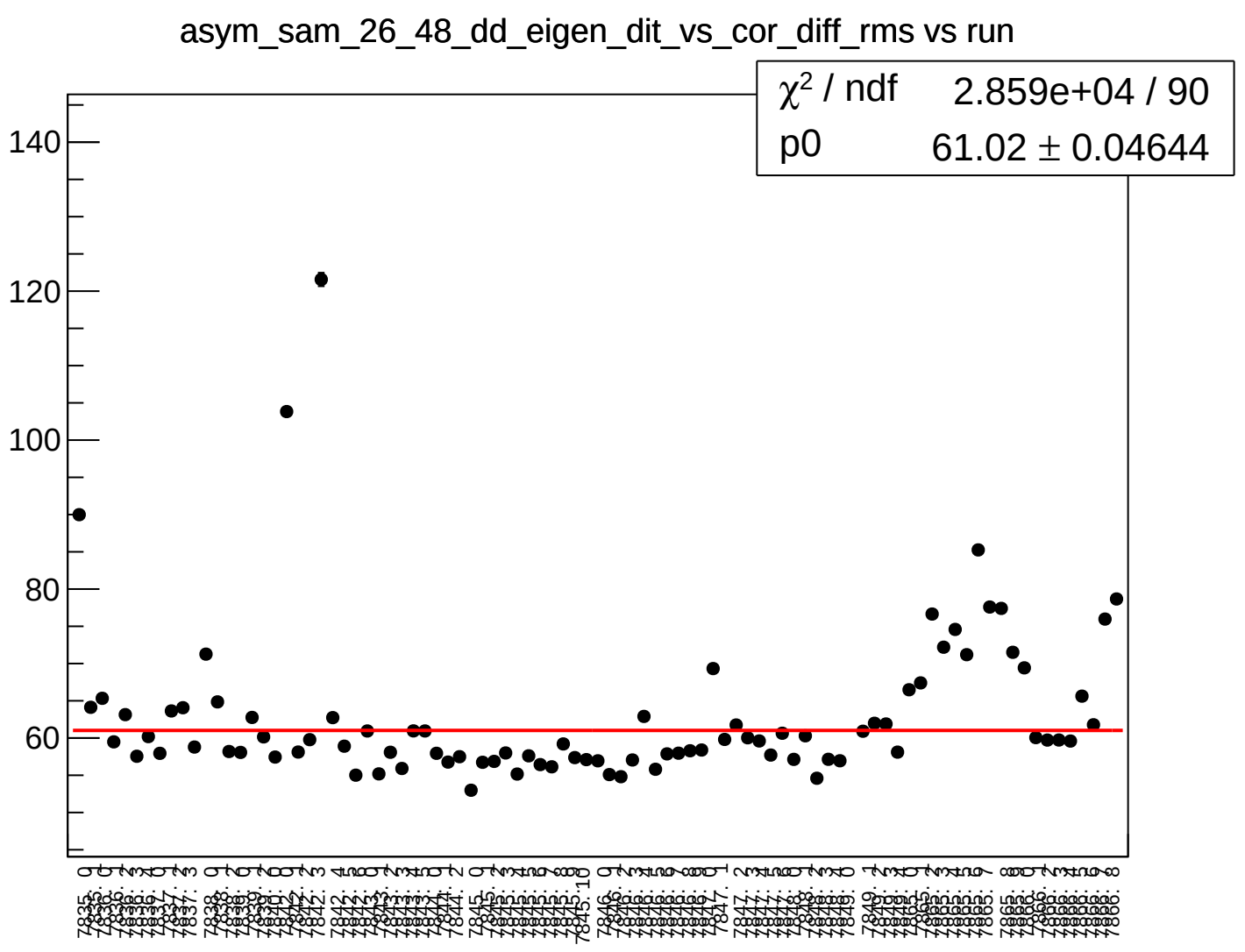

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.38 / 90
p0 −0.01531 ± 0.06568
pull
Entries 91
Mean 240.6
Std Dev 0
pull1D
Entries 91
Mean 0.01372
Std Dev 1.013


asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.859e+04 / 90
p0 61.02 ± 0.04644
140
120
100
80
60

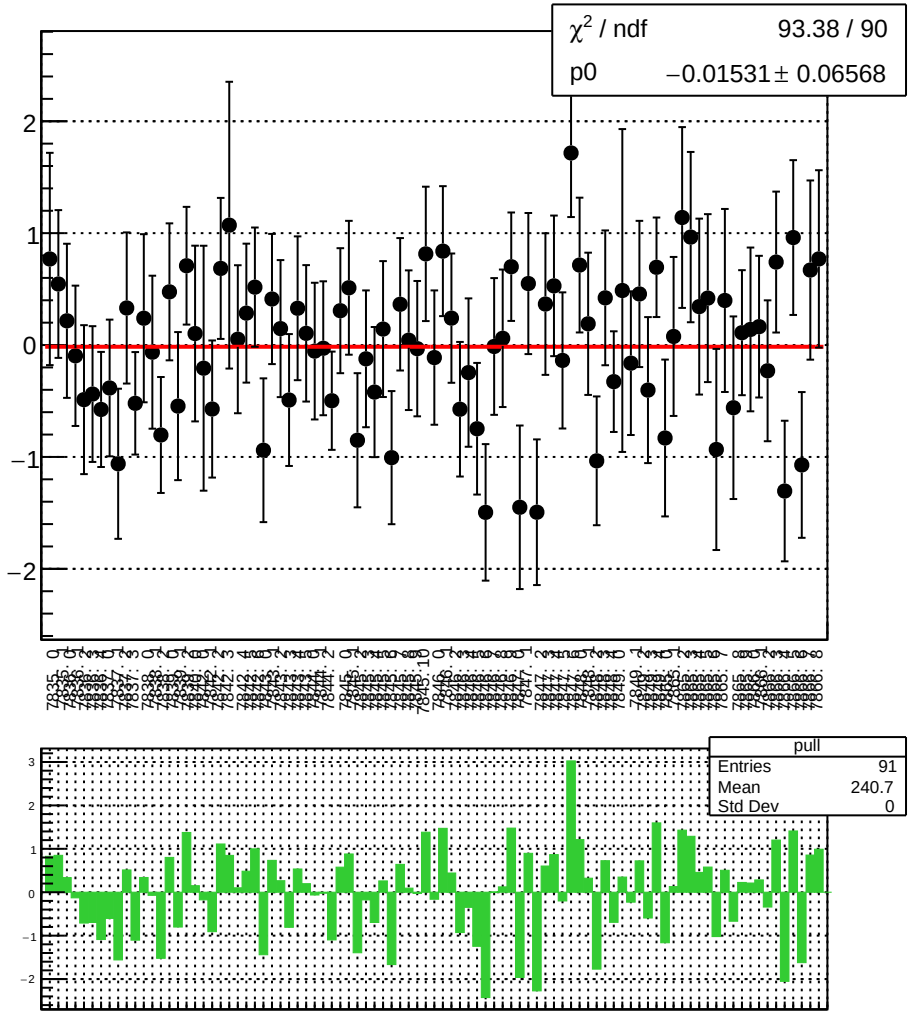

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.3 / 90
p0 2.832e−06 ± 2.236e−06
pull
Entries 91
Mean 150.9
Std Dev 0
pull1D
Entries 91
Mean −0.01003
Std Dev 1.13

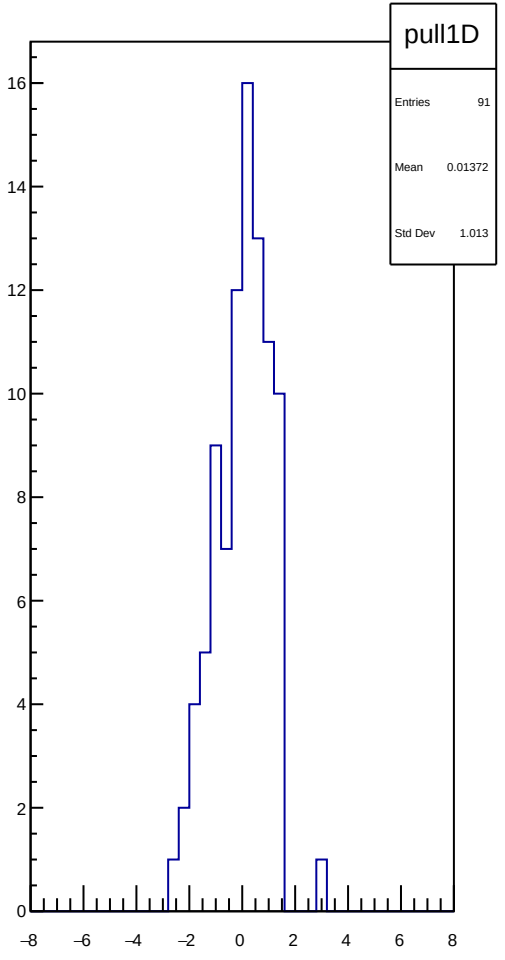

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.442e+04 / 90
p0 0.002086 ± 1.581e−06
0.004
0.0035
0.003
0.0025
0.002

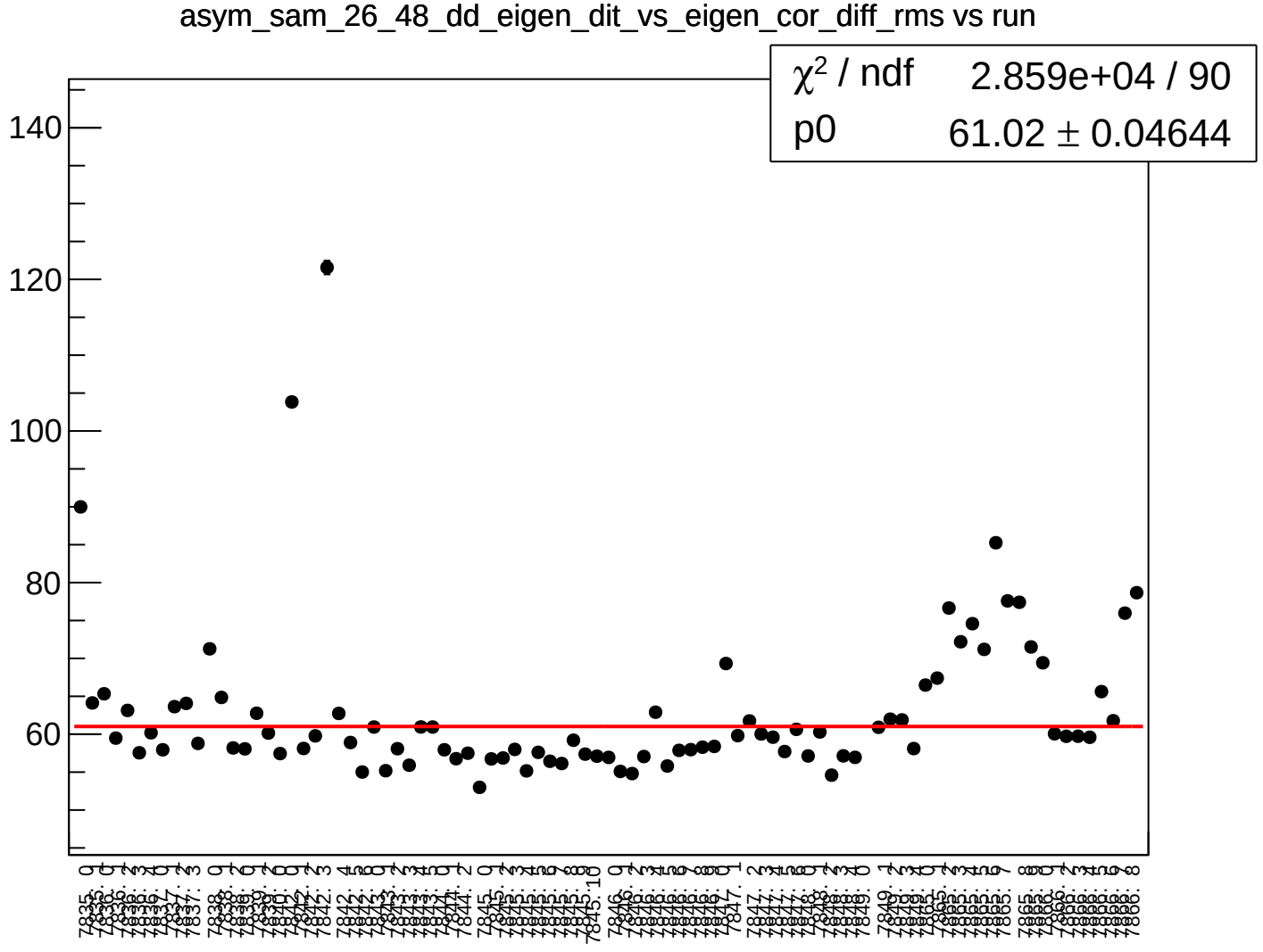

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.38 / 90
p0 −0.01531 ± 0.06568
pull
Entries 91
Mean 240.7
Std Dev 0
pull1D
Entries 91
Mean 0.01372
Std Dev 1.013

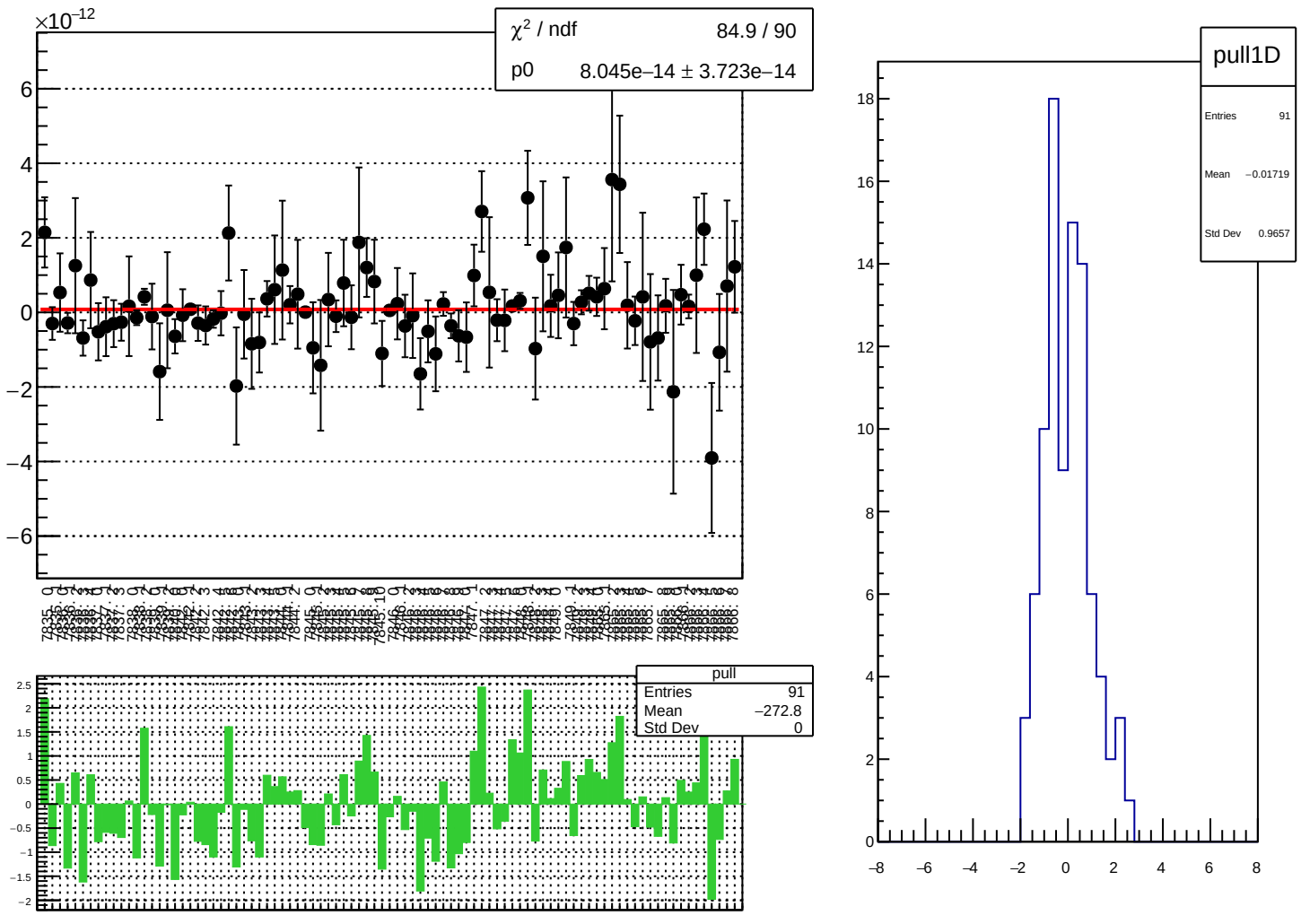

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.859e+04 / 90
p0 61.02 ± 0.04644
140
120
100
80
60

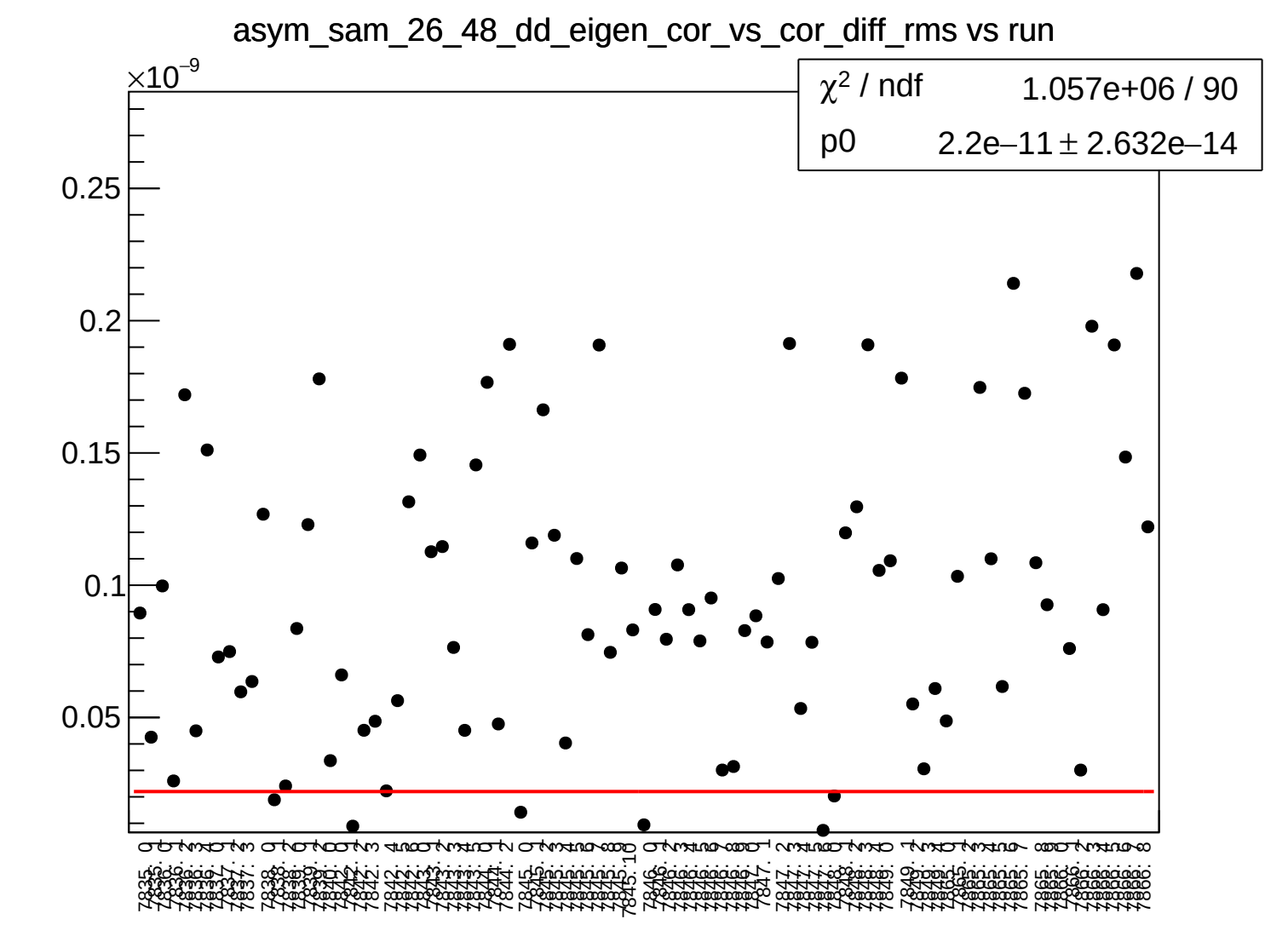
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

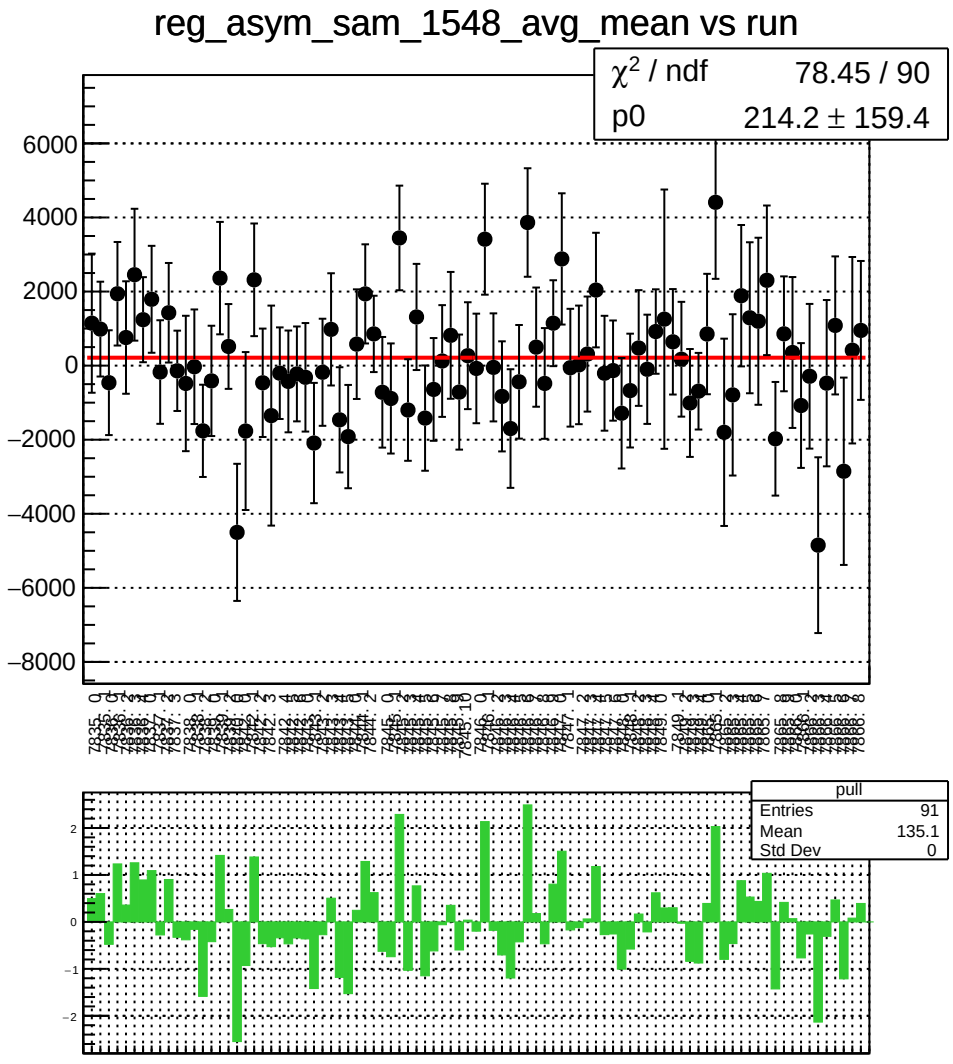


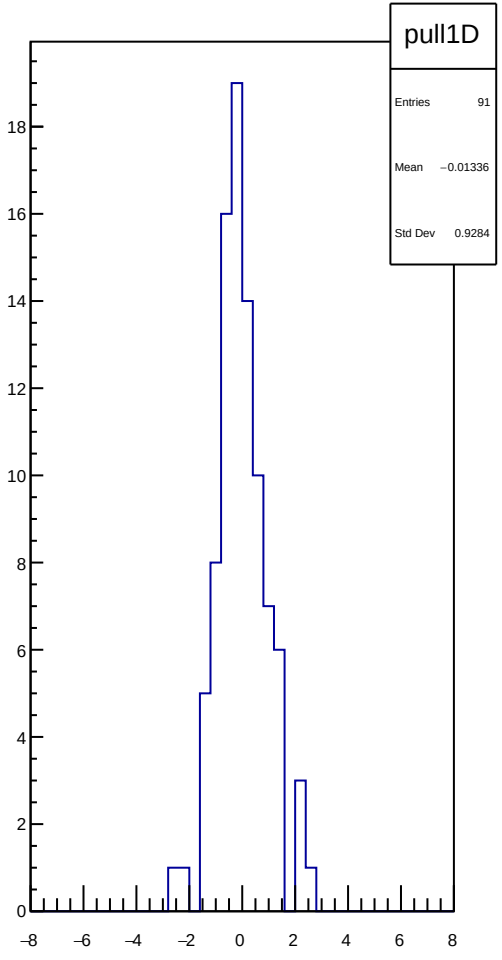


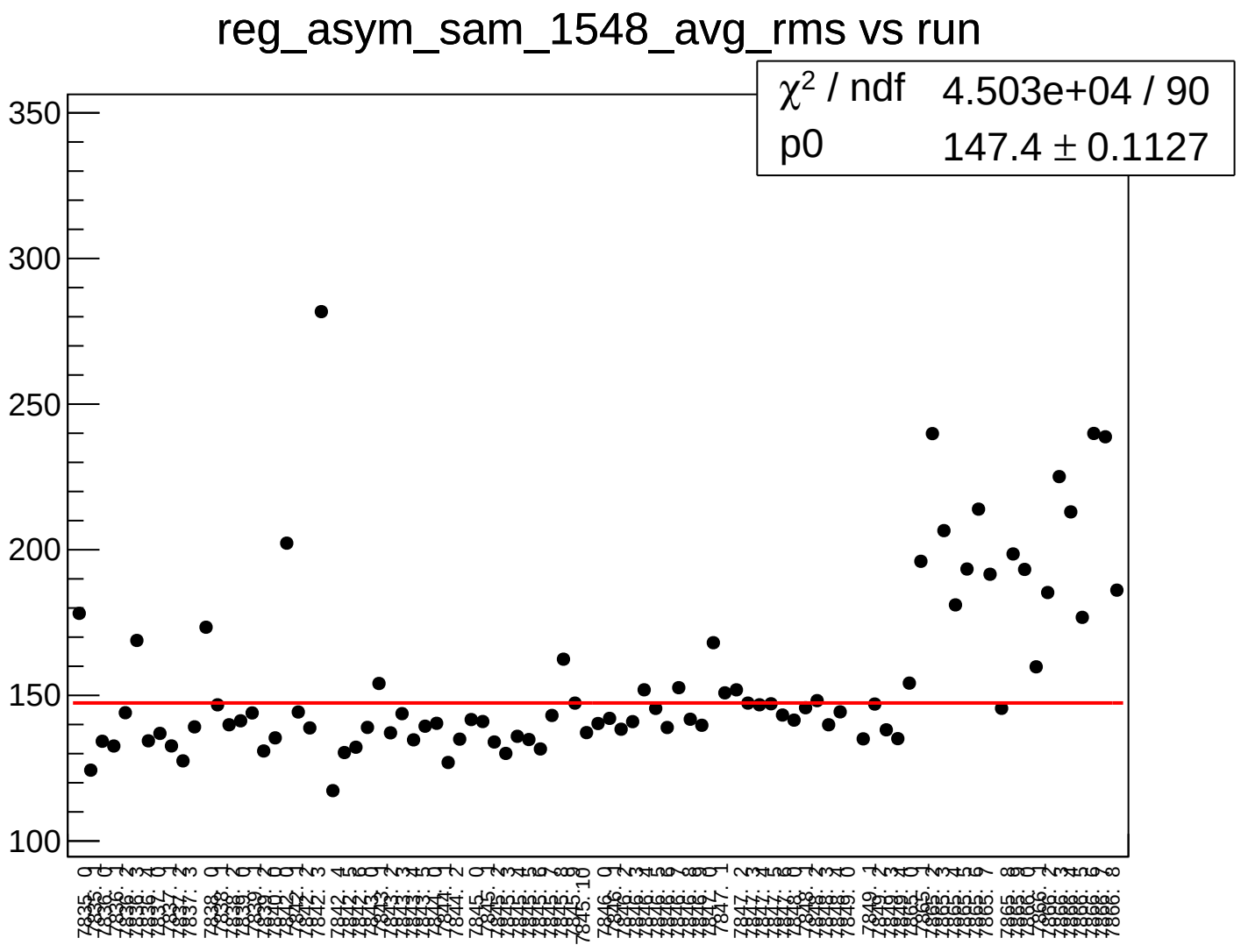

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.859e+04 / 90
p0 61.02 ± 0.04644
140
120
100
80
60

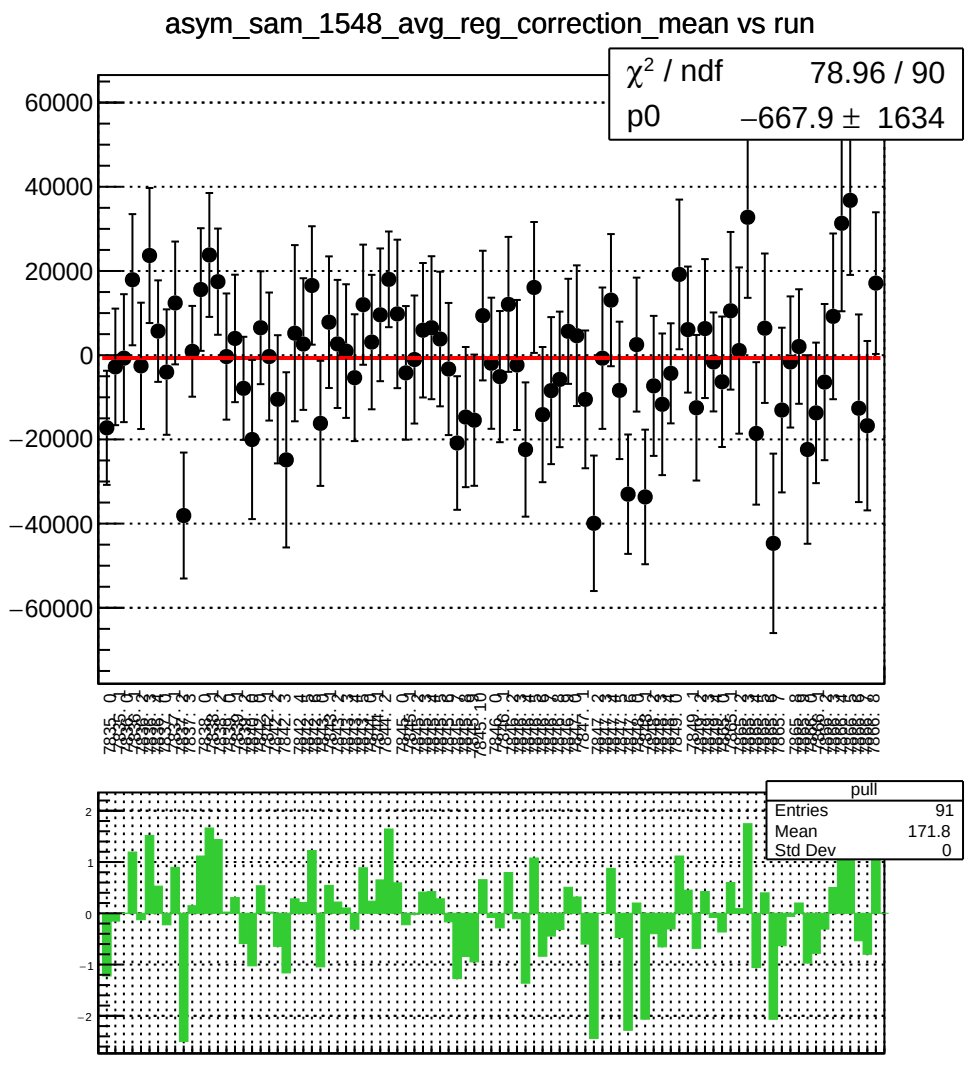

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.9 / 90
p0 8.045e−14 ± 3.723e−14
pull
Entries 91
Mean −272.8
Std Dev 0
pull1D
Entries 91
Mean −0.01719
Std Dev 0.9657

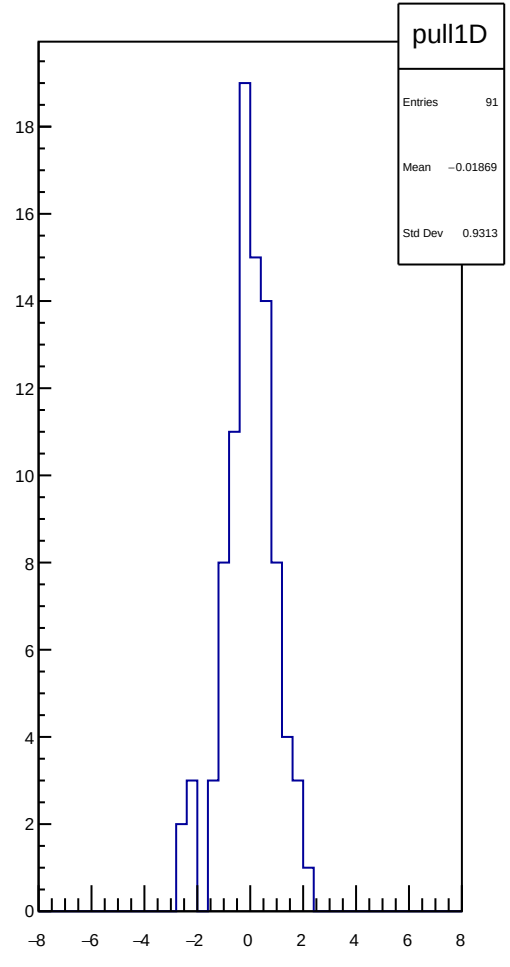

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.057e+06 / 90
p0 2.2e−11 ± 2.632e−14
0.25
0.2
0.15
0.1
0.05

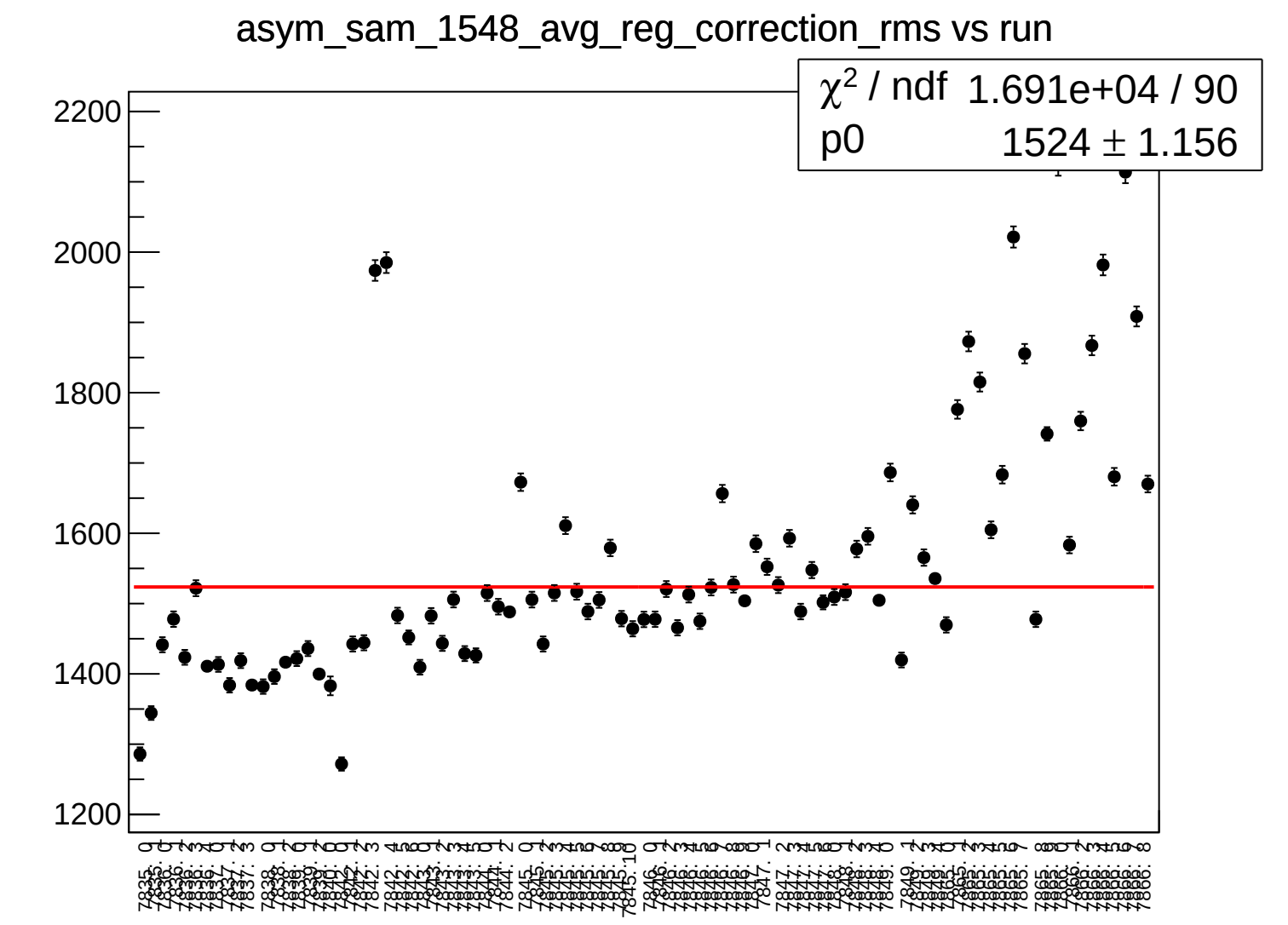

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 78.45 / 90
p0 214.2 ± 159.4
pull
Entries 91
Mean 135.1
Std Dev 0

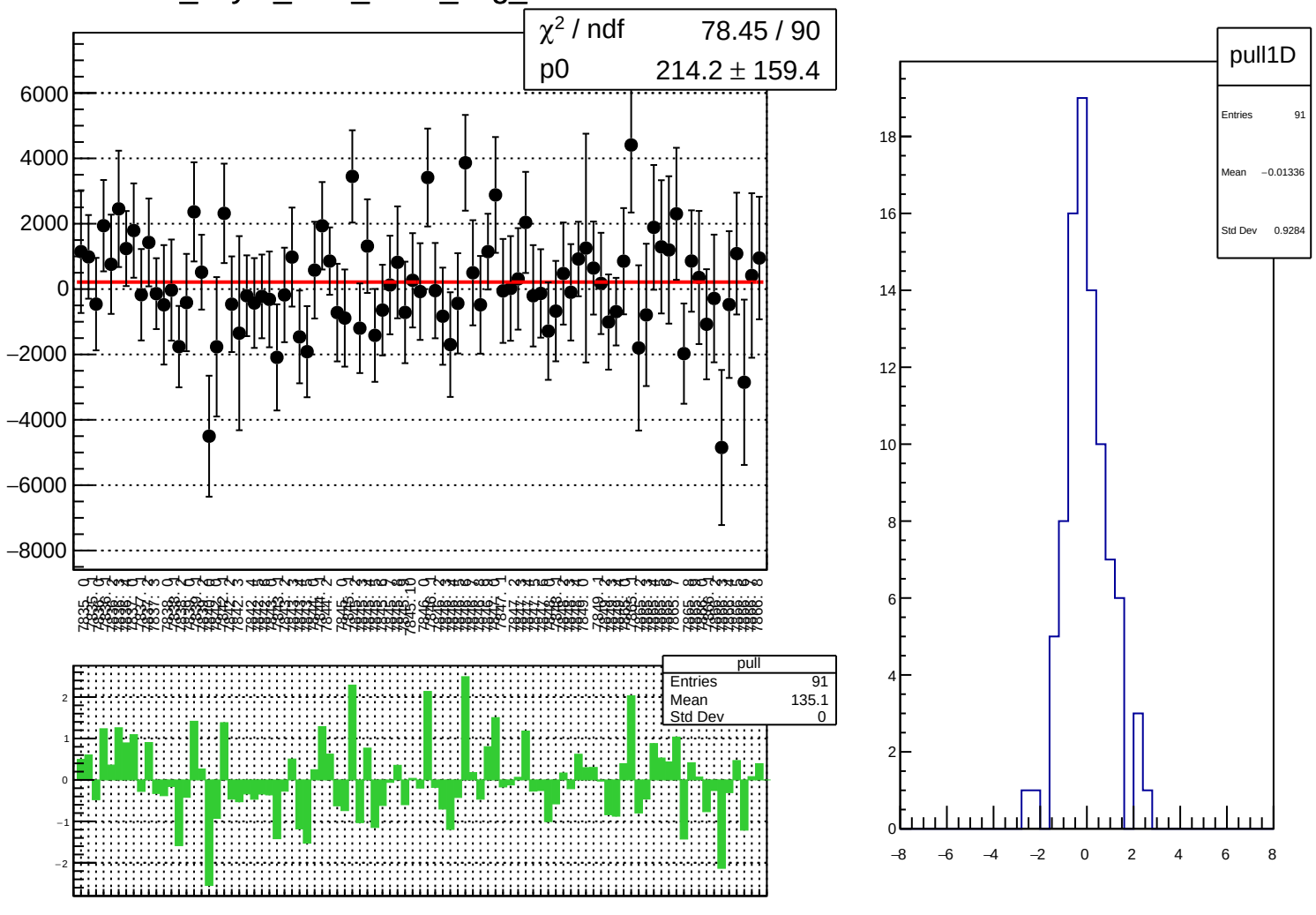

pull1D
Entries 91
Mean −0.01336
Std Dev 0.9284

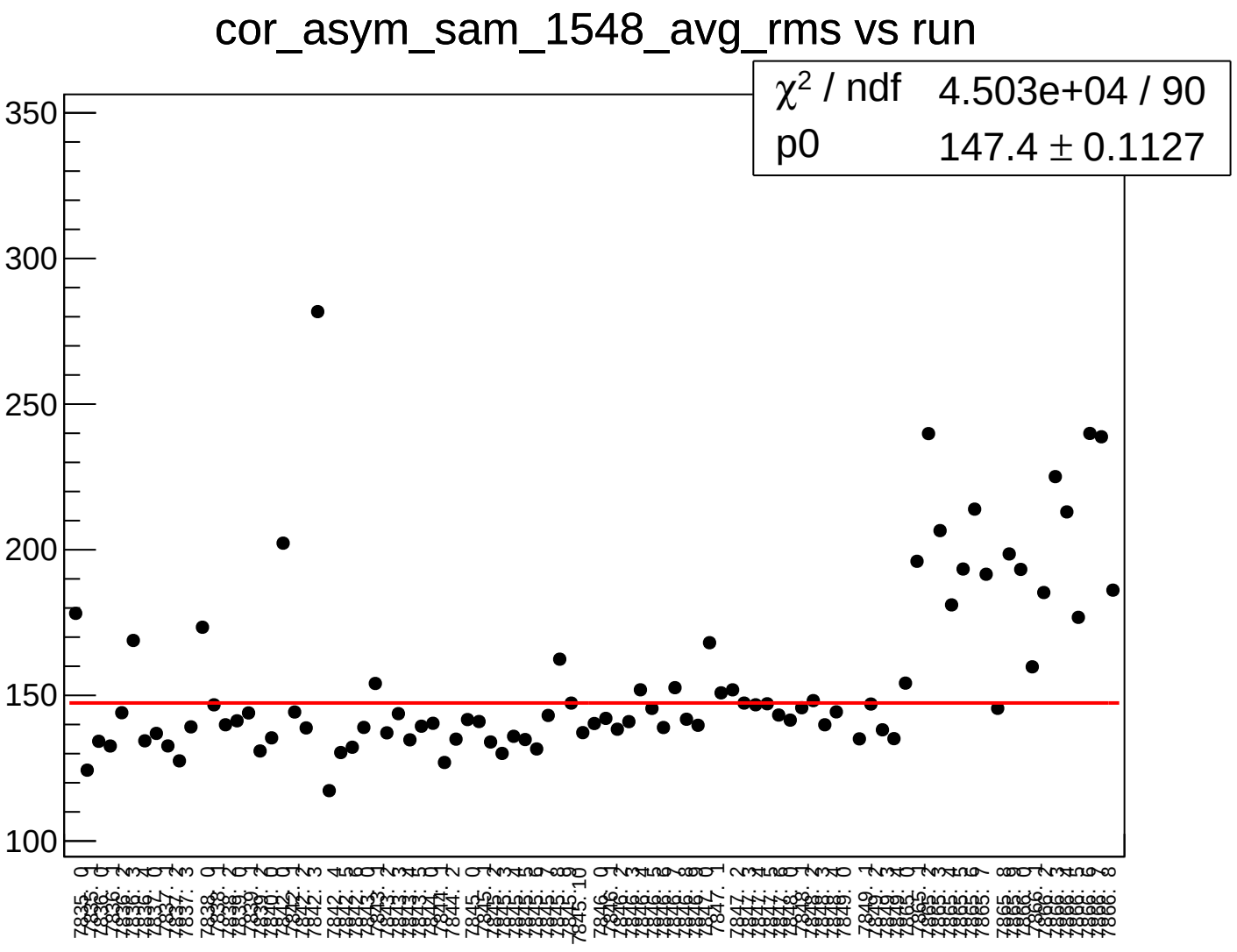

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 4.503e+04 / 90
p0 147.4 ± 0.1127
350
300
250
200
150
100

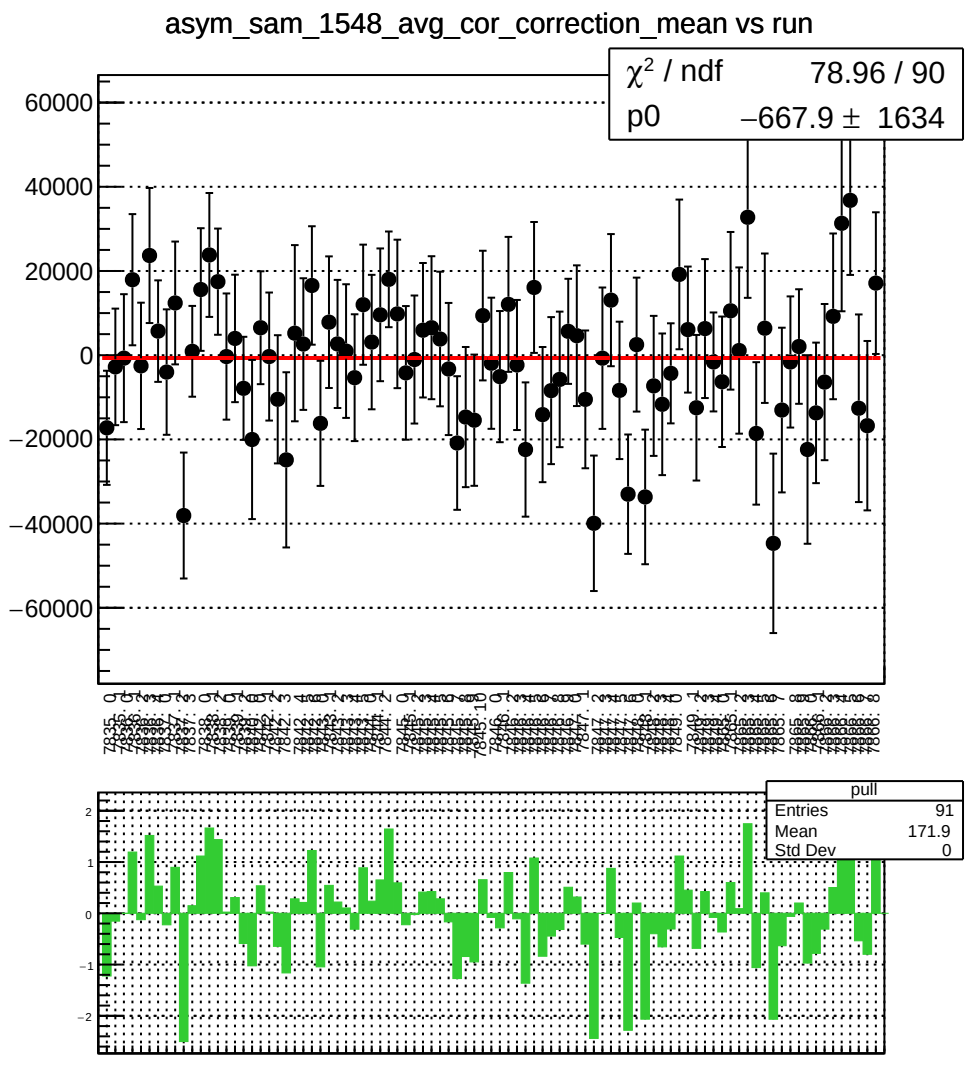

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 78.96 / 90
p0 −667.9 ± 1634
pull
Entries 91
Mean 171.8
Std Dev 0

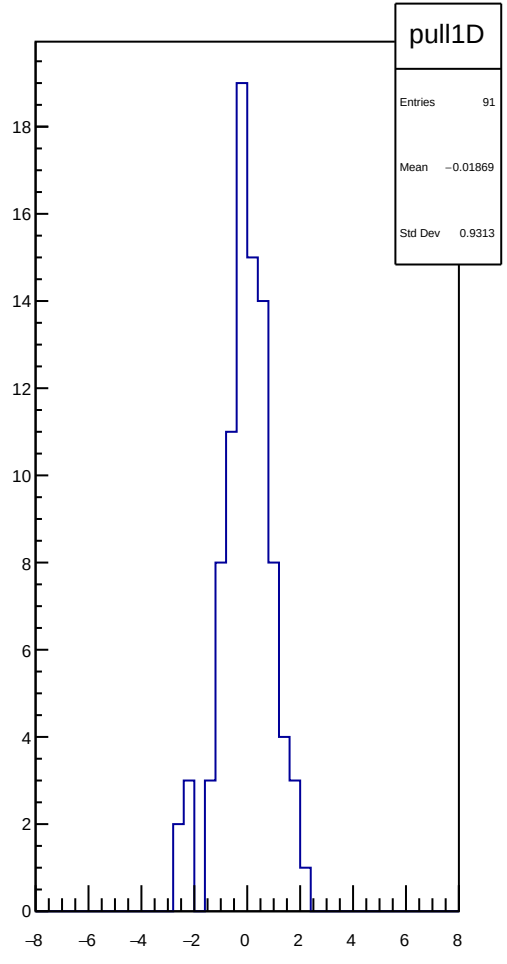

pull1D
Entries 91
Mean −0.01869
Std Dev 0.9313

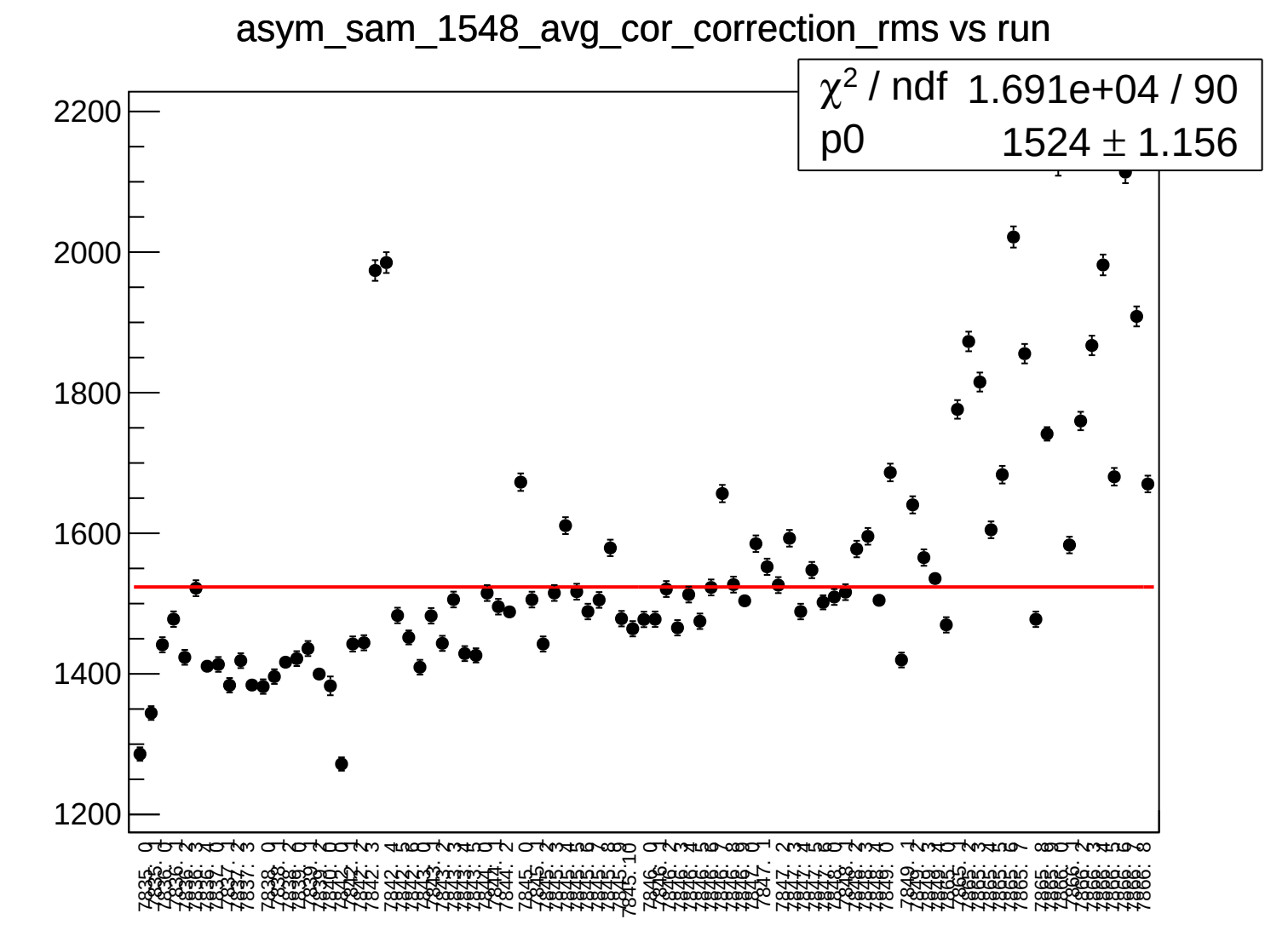

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.691e+04 / 90
p0 1524 ± 1.156
2200
2000
1800
1600
1400
1200

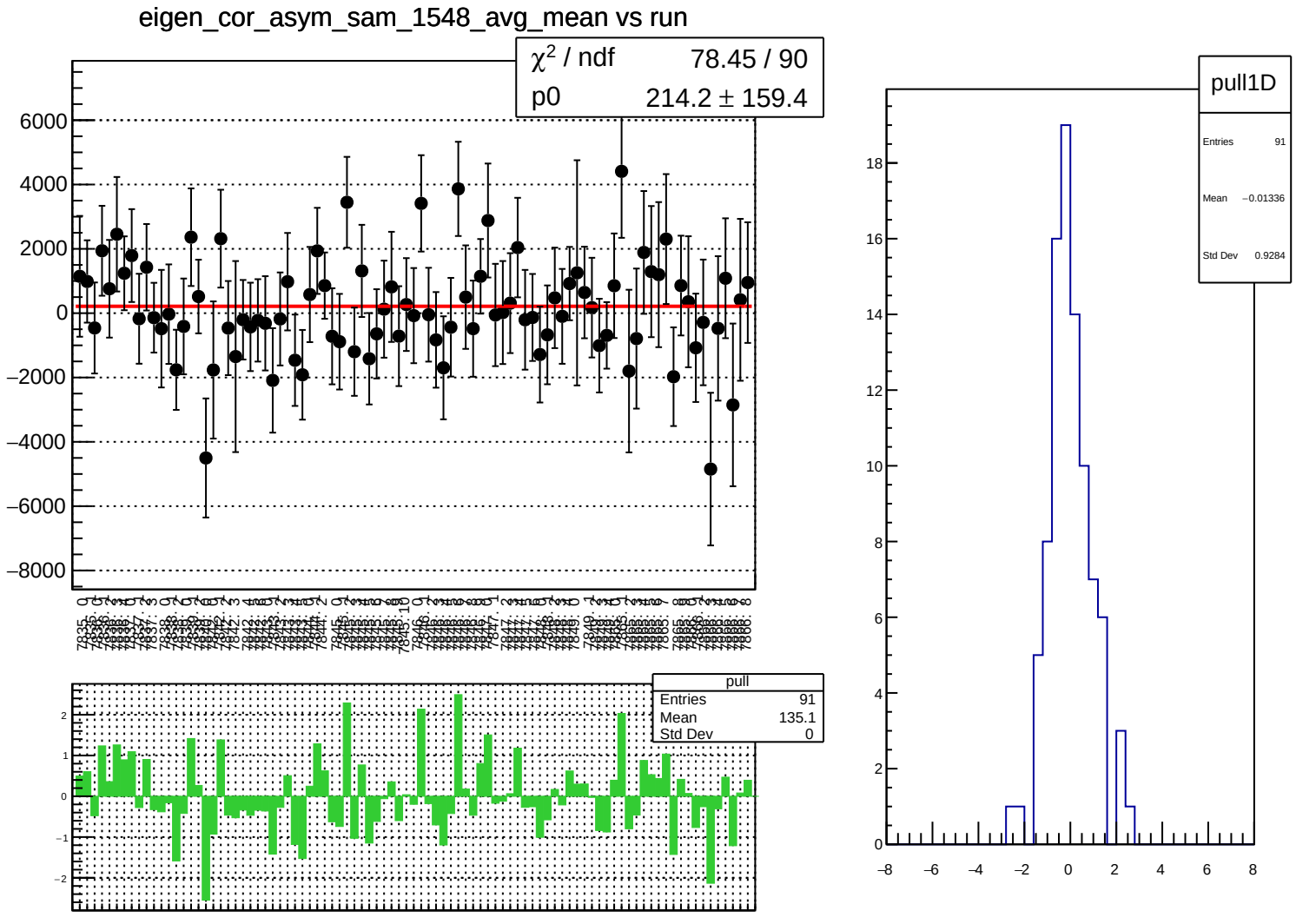

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 78.45 / 90
p0 214.2 ± 159.4
pull
Entries 91
Mean 135.1
Std Dev 0
pull1D
Entries 91
Mean −0.01336
Std Dev 0.9284

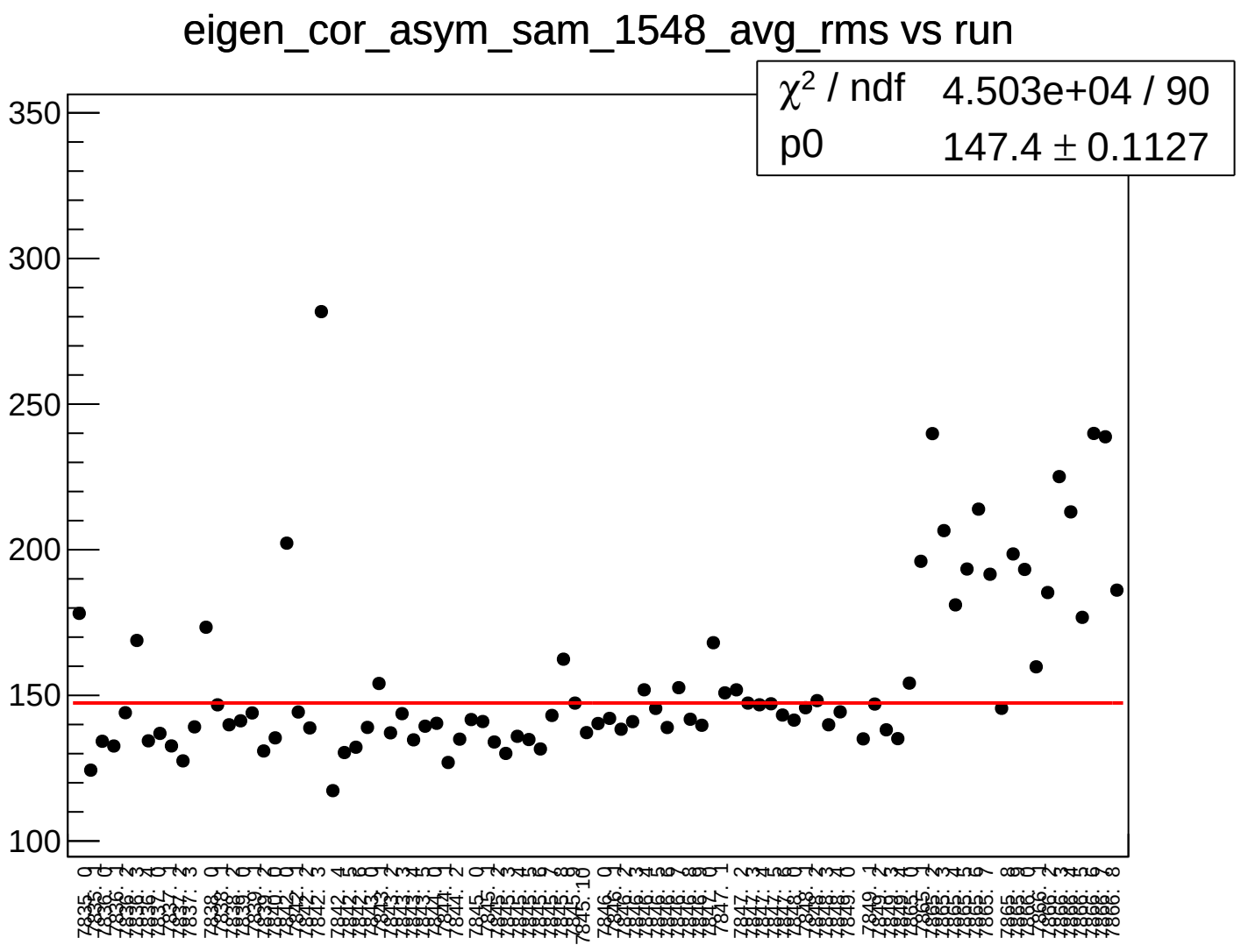

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4.503e+04 / 90
p0 147.4 ± 0.1127
350
300
250
200
150
100

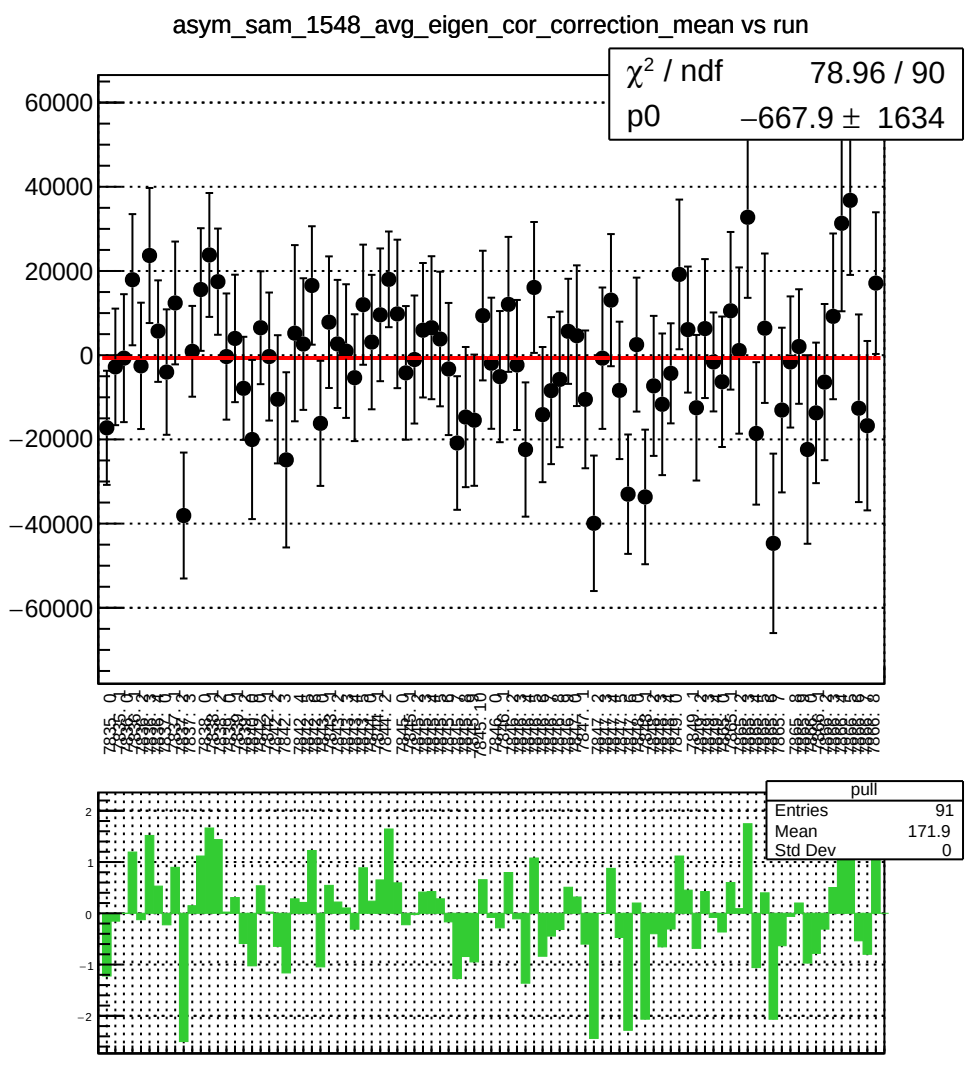

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 78.96 / 90
p0 −667.9 ± 1634
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 171.9
Std Dev 0
2
1
0
−1
−2

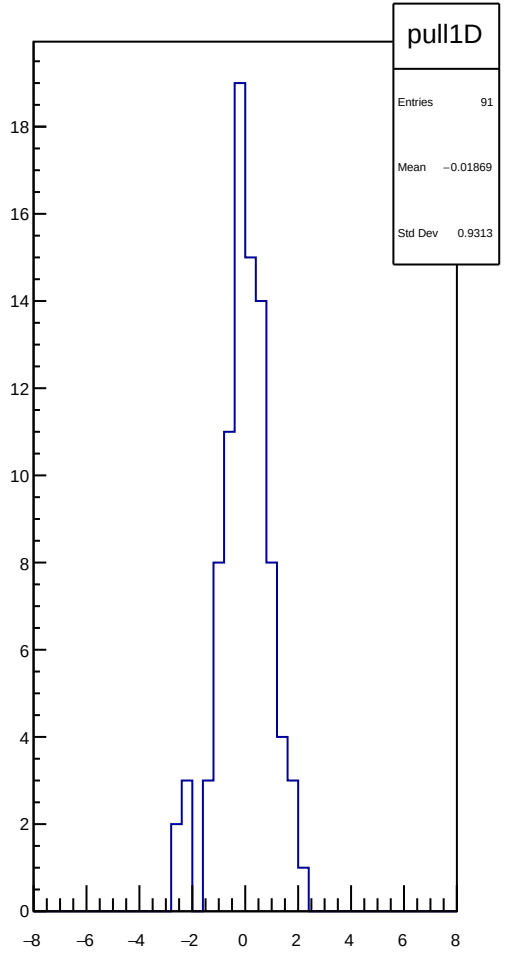

pull1D
Entries 91
Mean −0.01869
Std Dev 0.9313
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

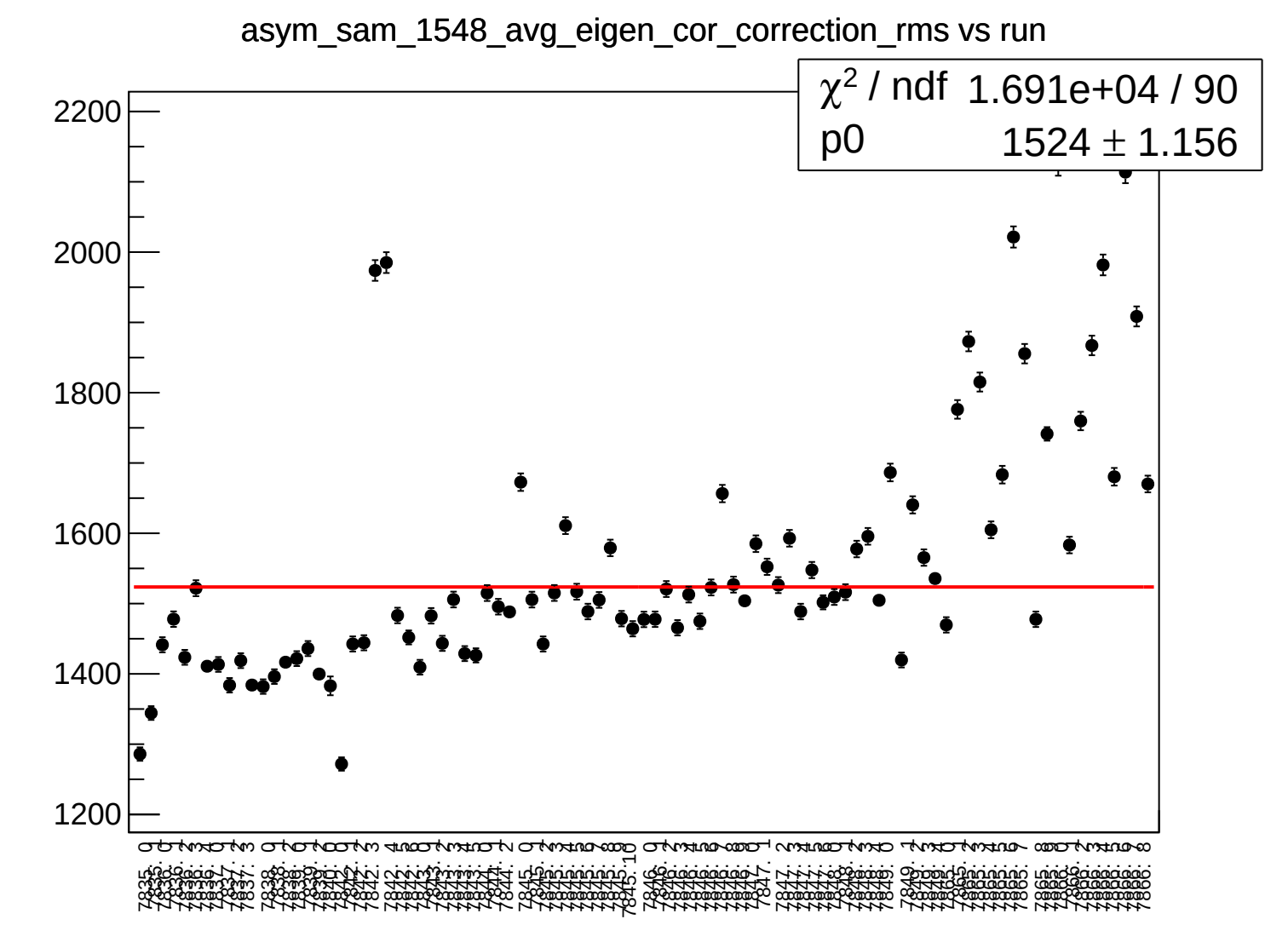

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 90
p0 1524 ± 1.156
2200
2000
1800
1600
1400
1200

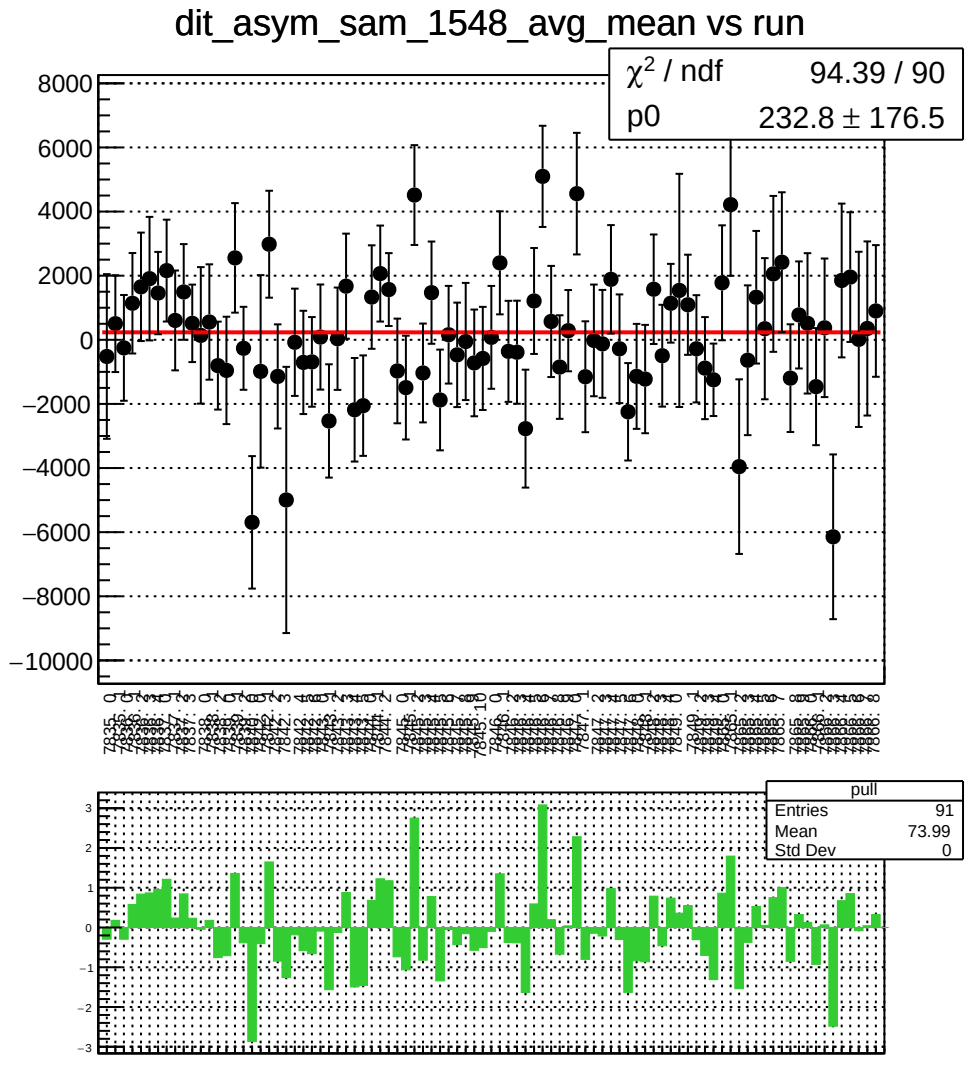

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 78.45 / 90
p0 214.2 ± 159.4
pull
Entries 91
Mean 135.1
Std Dev 0
pull1D
Entries 91
Mean −0.01336
Std Dev 0.9284

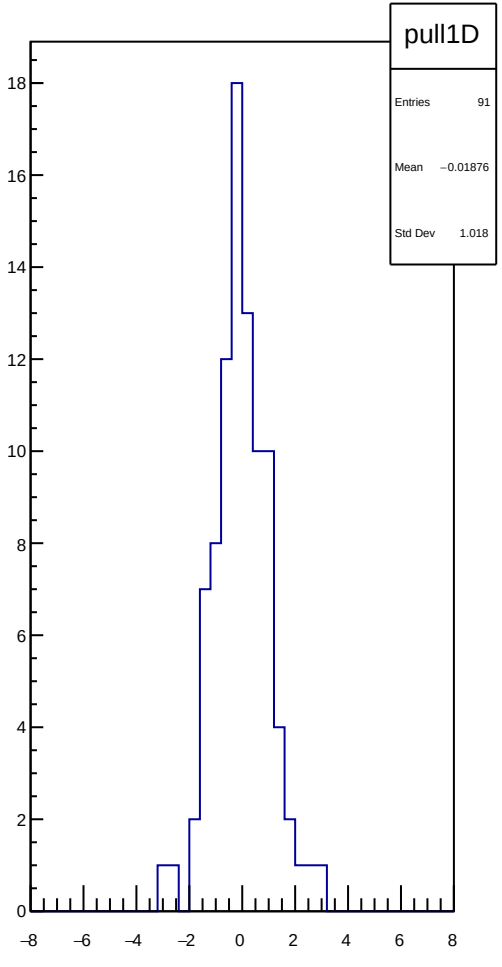

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4.503e+04 / 90
p0 147.4 ± 0.1127
350
300
250
200
150
100

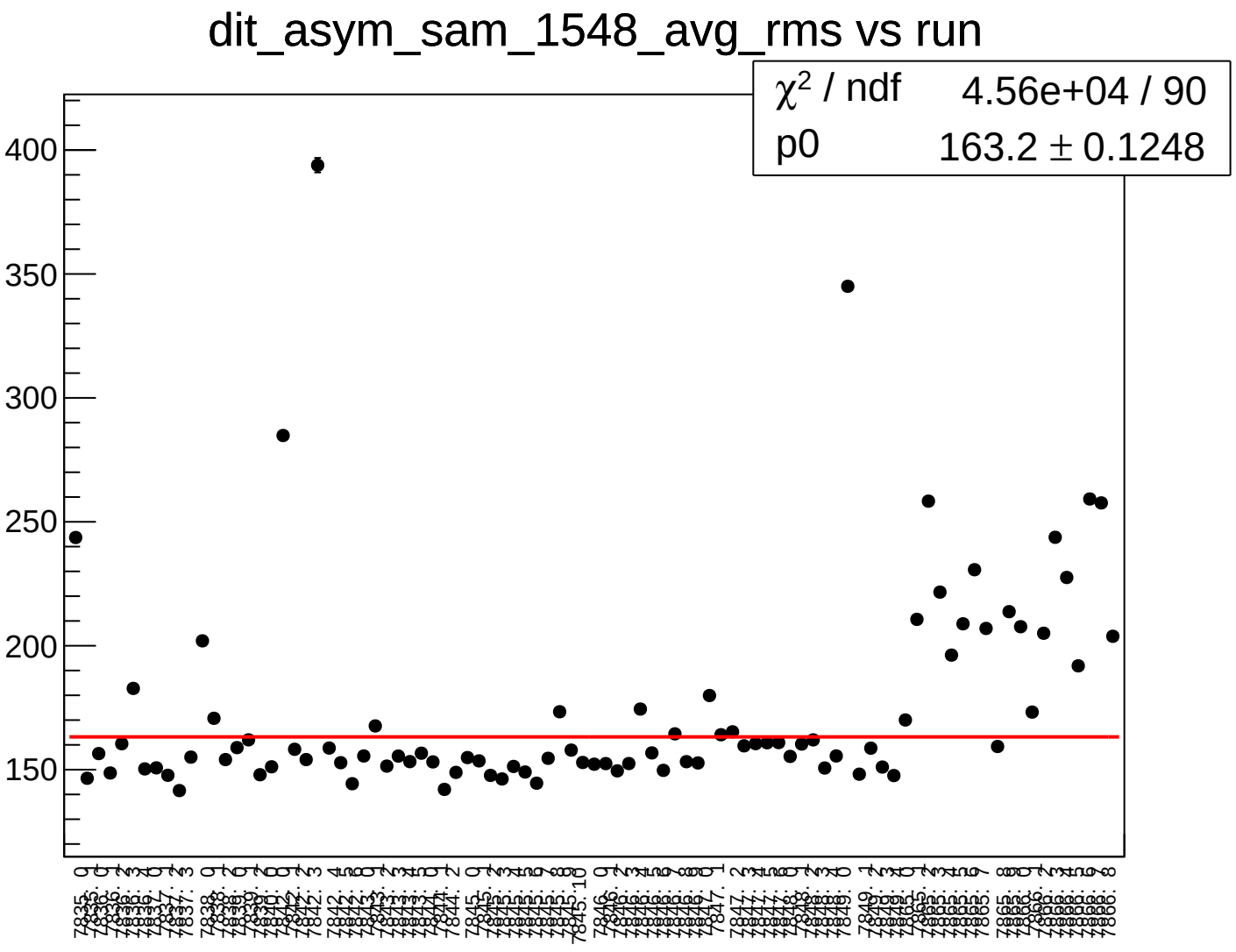

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.96 / 90
p0 −667.9 ± 1634
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 171.9
Std Dev 0
2
1
0
−1
−2

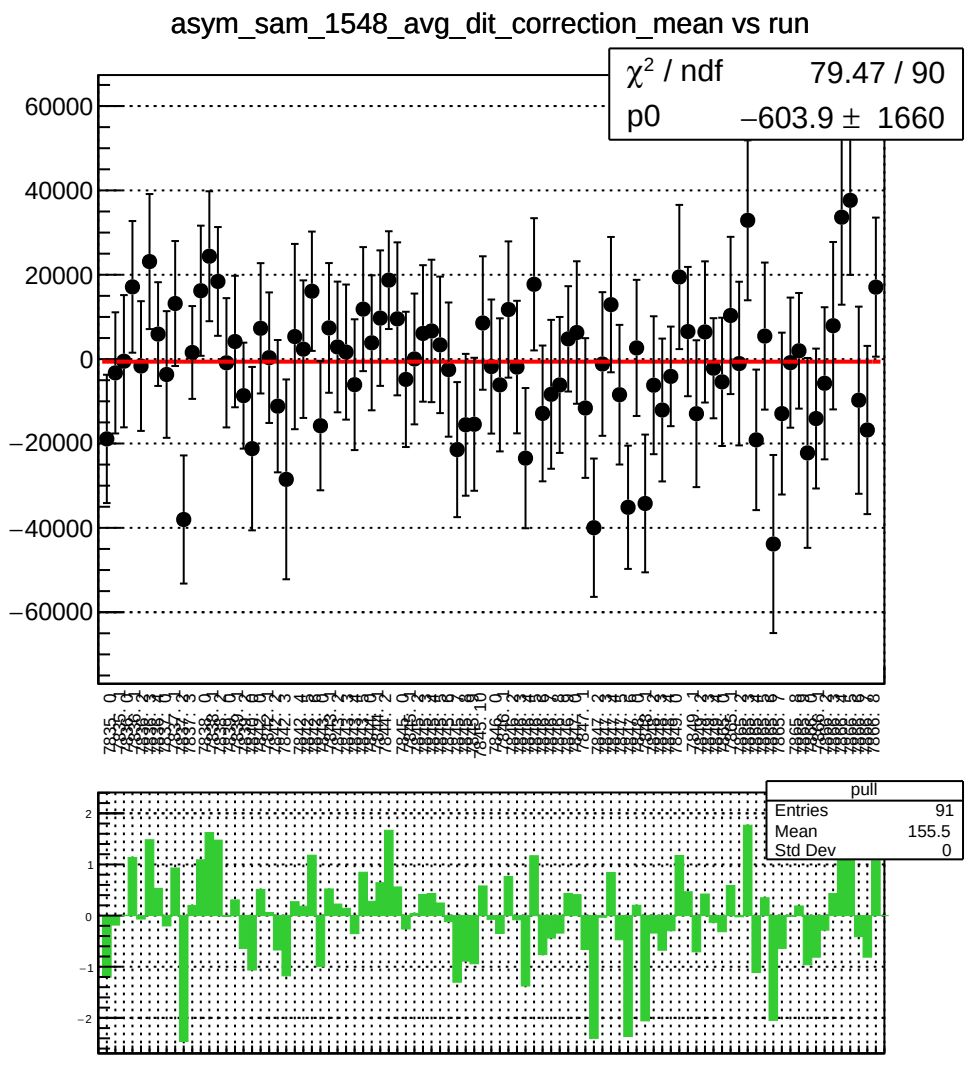

pull1D
Entries 91
Mean −0.01869
Std Dev 0.9313
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

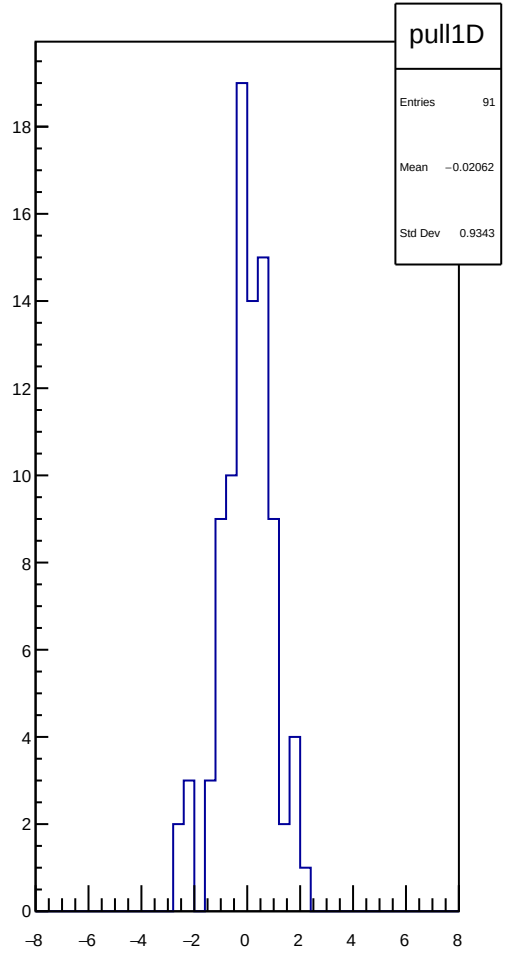

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 90
p0 1524 ± 1.156
2200
2000
1800
1600
1400
1200

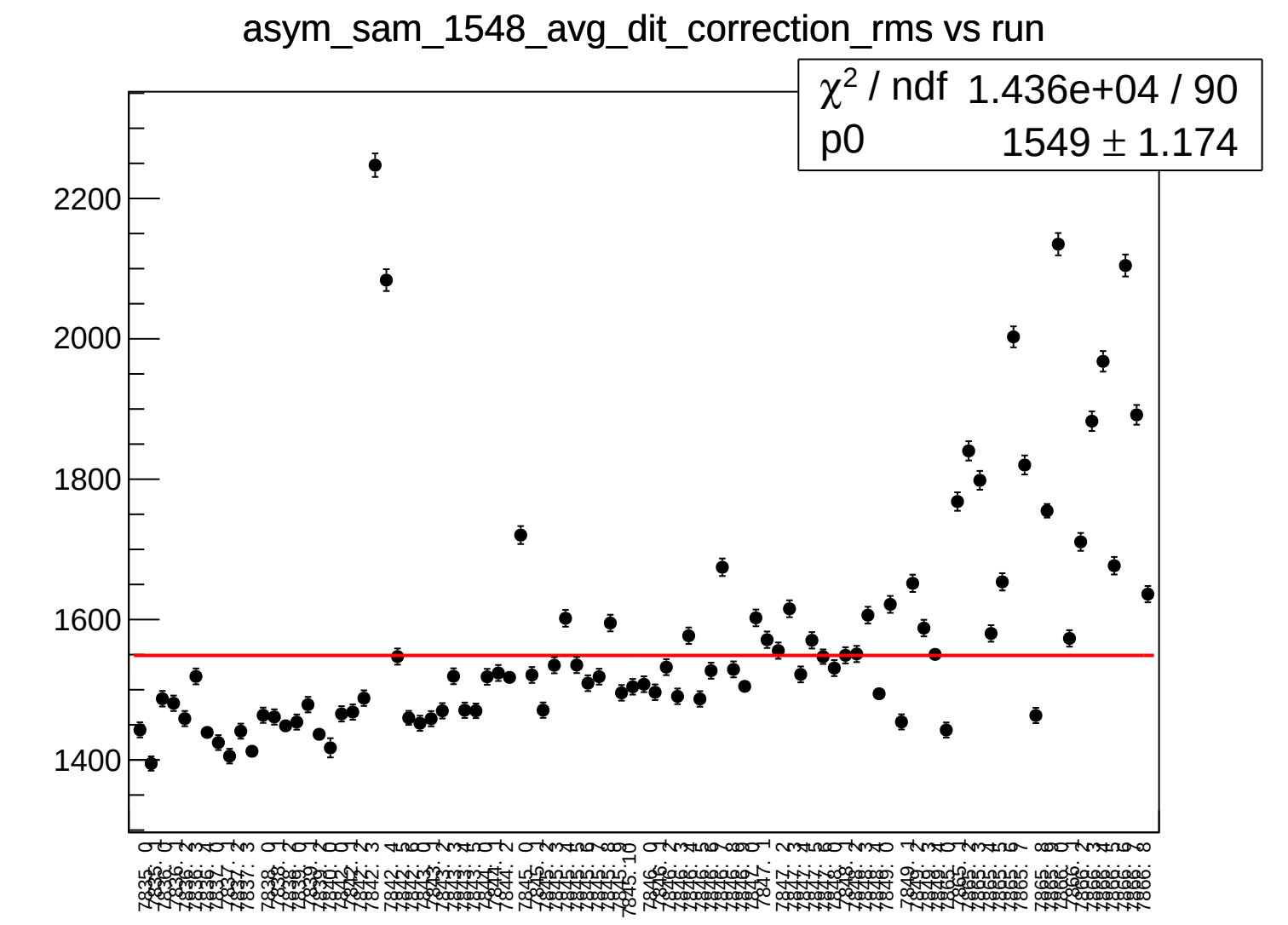

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 94.39 / 90
p0 232.8 ± 176.5
pull
Entries 91
Mean 73.99
Std Dev 0

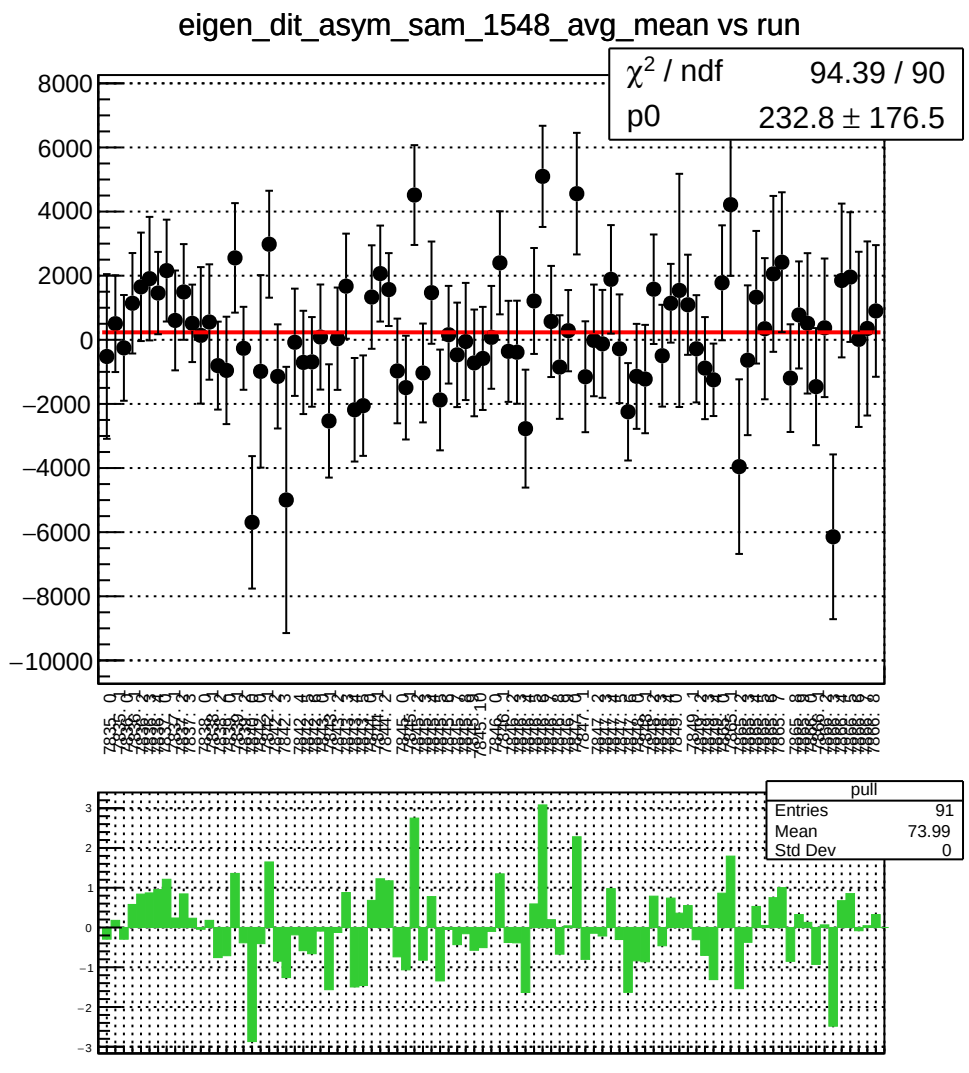

pull1D
Entries 91
Mean −0.01876
Std Dev 1.018

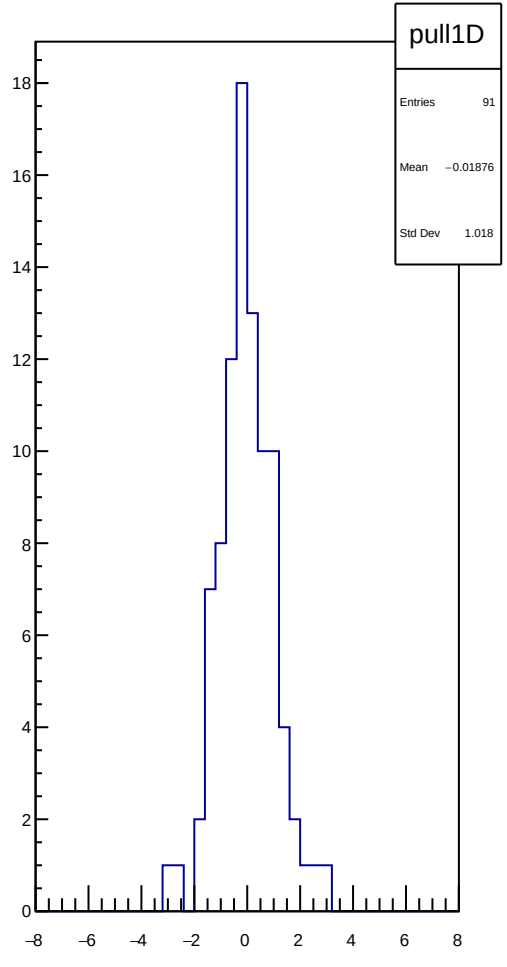

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.56e+04 / 90
p0 163.2 ± 0.1248
400
350
300
250
200
150

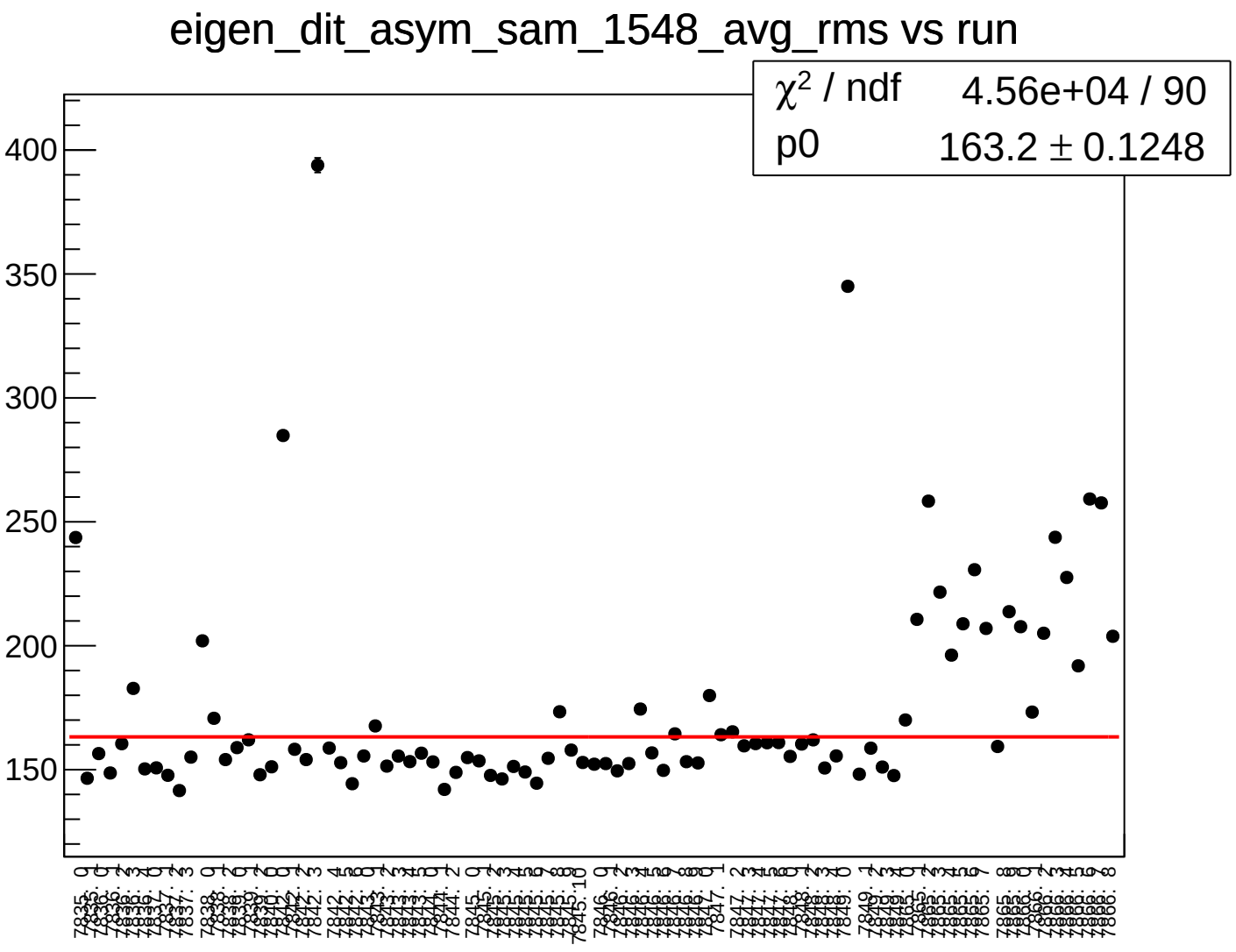

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 79.47 / 90
p0 −603.9 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 155.5
Std Dev 0
2
1
0
−1
−2

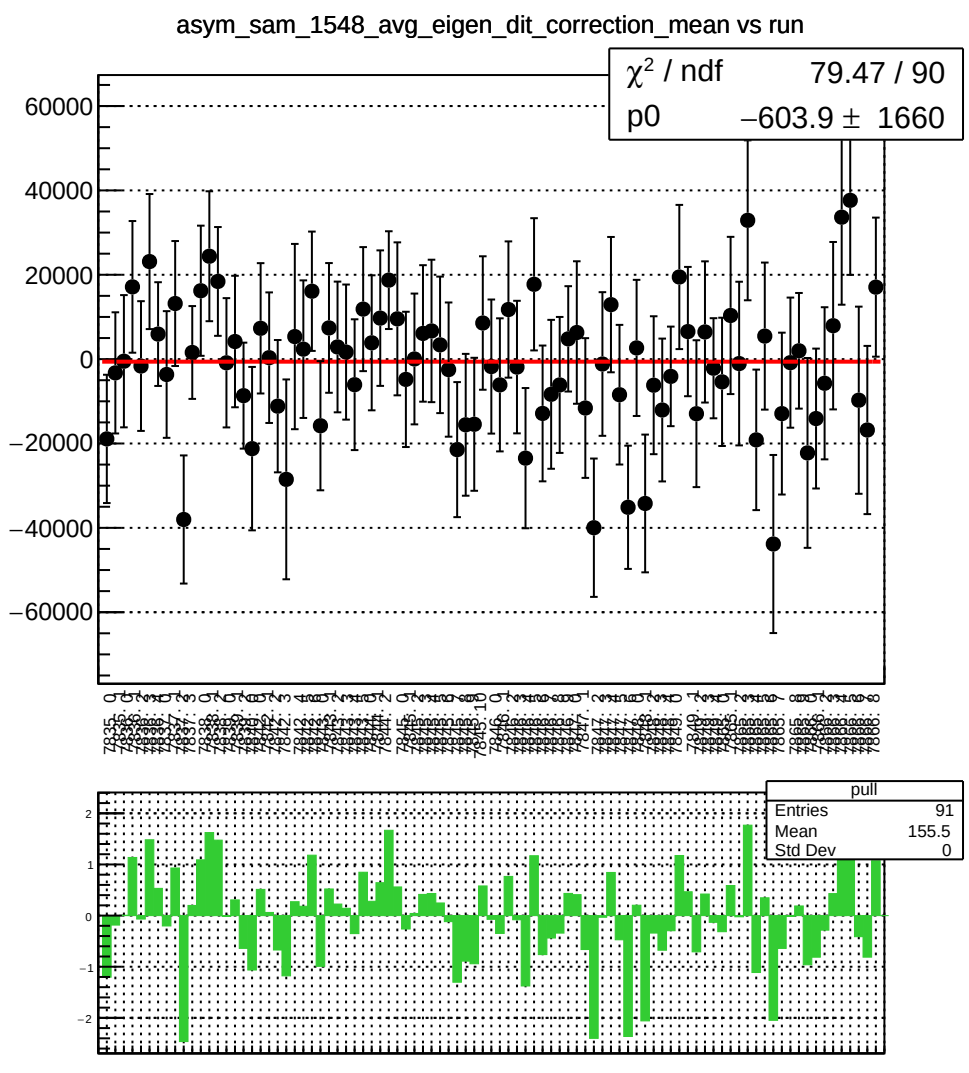

pull1D
Entries 91
Mean −0.02062
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

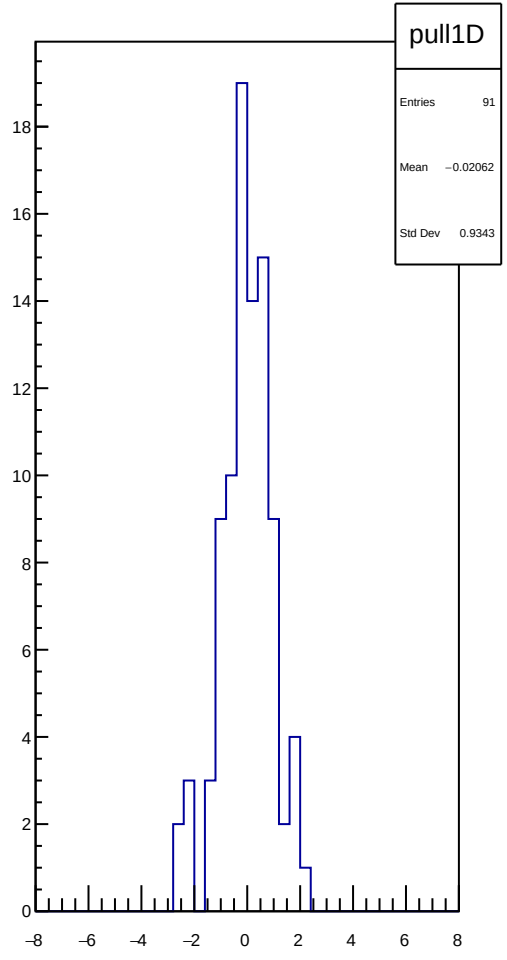

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.436e+04 / 90
p0 1549 ± 1.174
2200
2000
1800
1600
1400

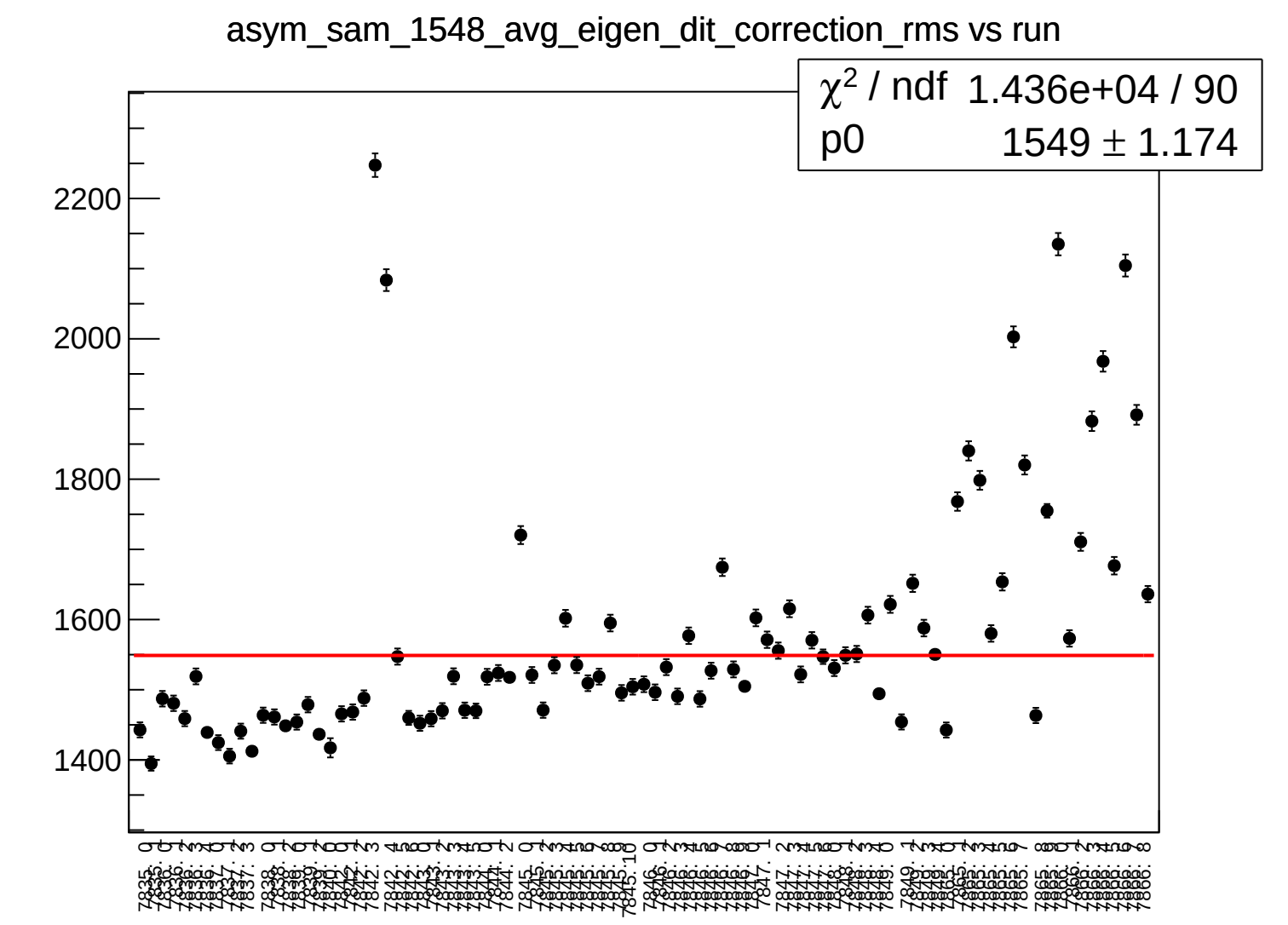

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 94.39 / 90
p0 232.8 ± 176.5
pull
Entries 91
Mean 73.99
Std Dev 0

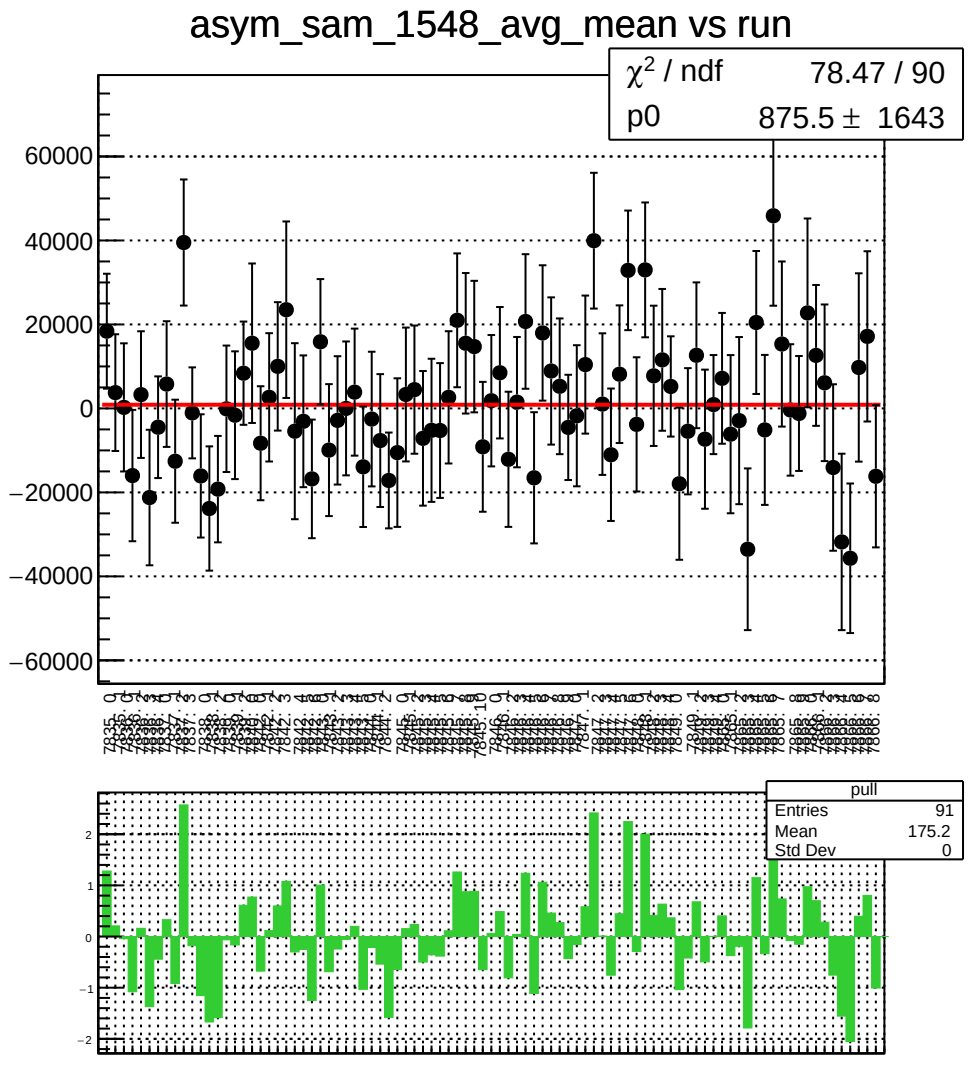

pull1D
Entries 91
Mean −0.01876
Std Dev 1.018

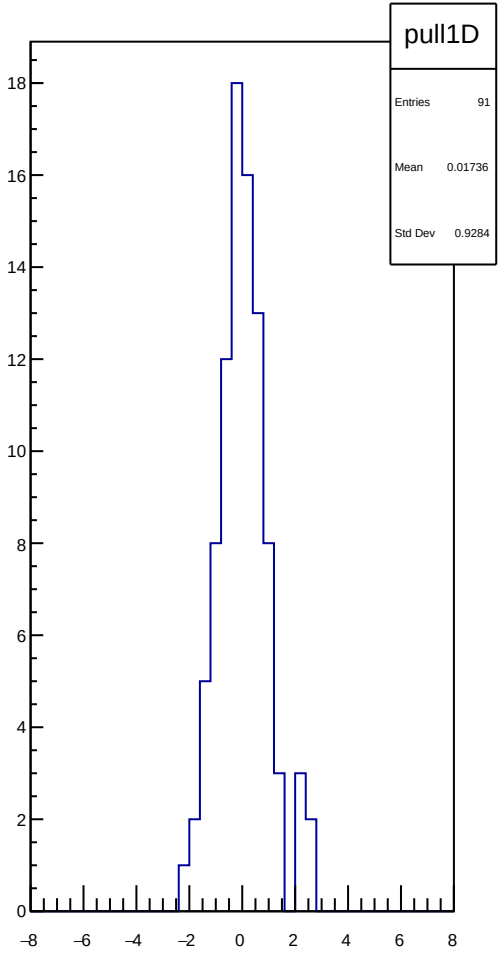

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.56e+04 / 90
p0 163.2 ± 0.1248
400
350
300
250
200
150

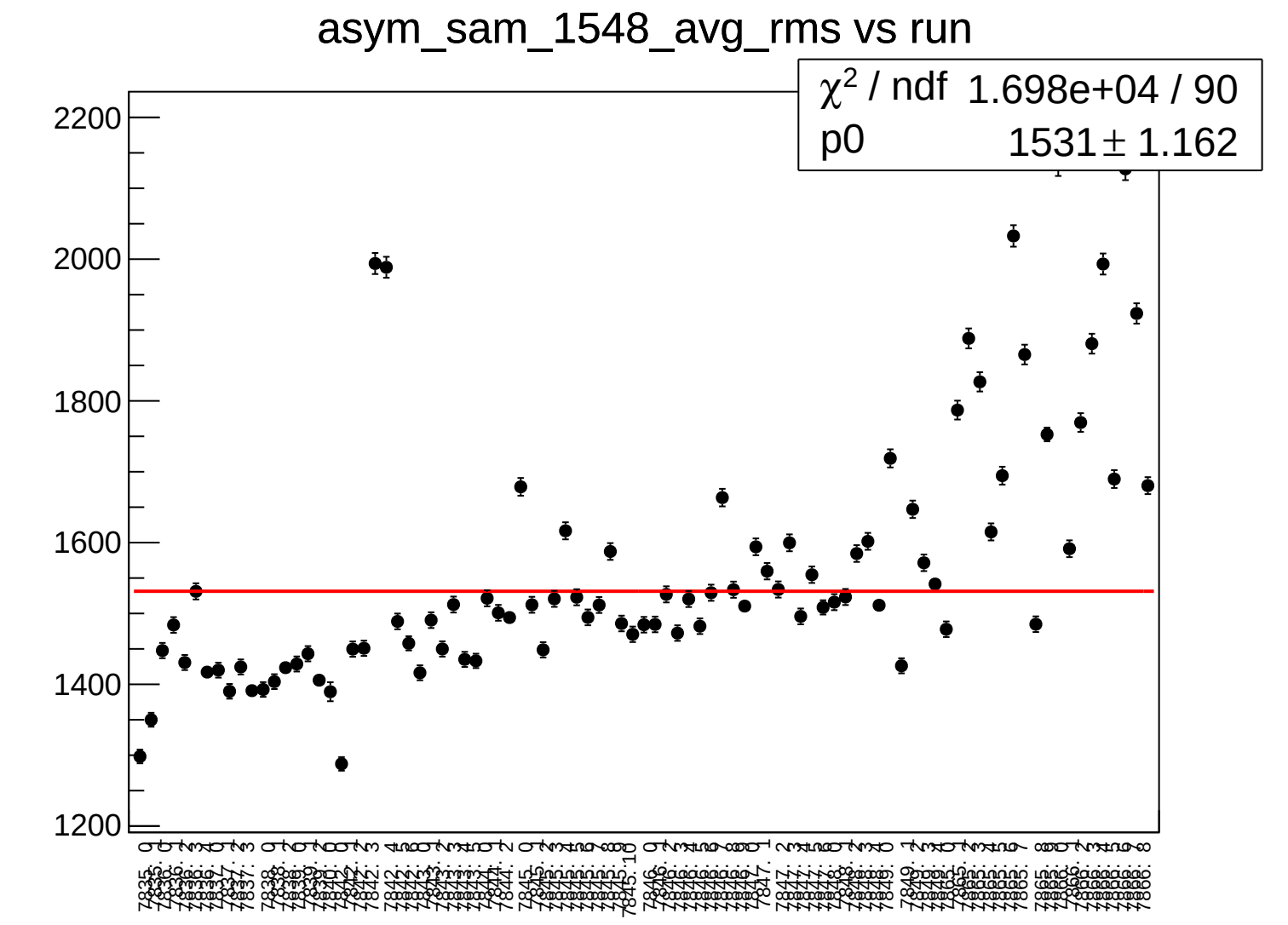

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.47 / 90
p0 −603.9 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 155.5
Std Dev 0
2
1
0
−1
−2

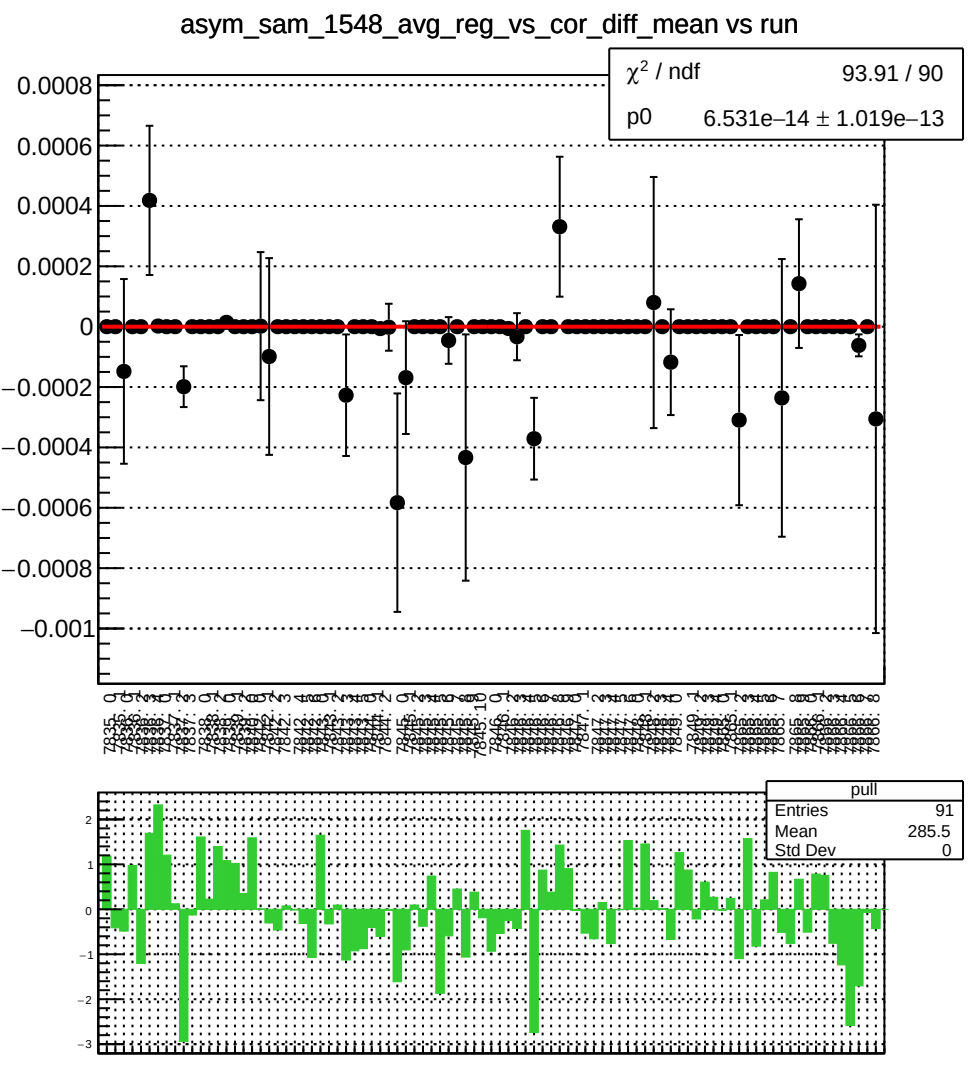

pull1D
Entries 91
Mean −0.02062
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

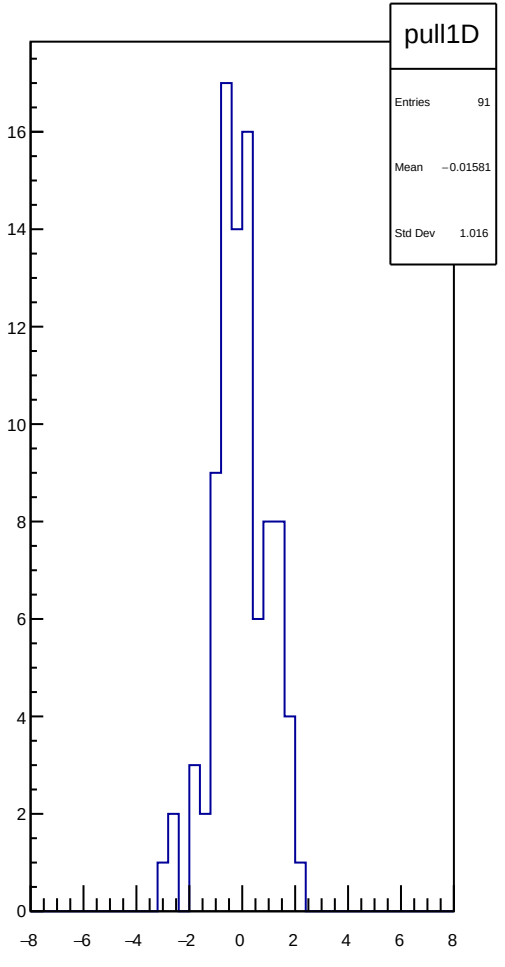

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.436e+04 / 90
p0 1549 ± 1.174
2200
2000
1800
1600
1400

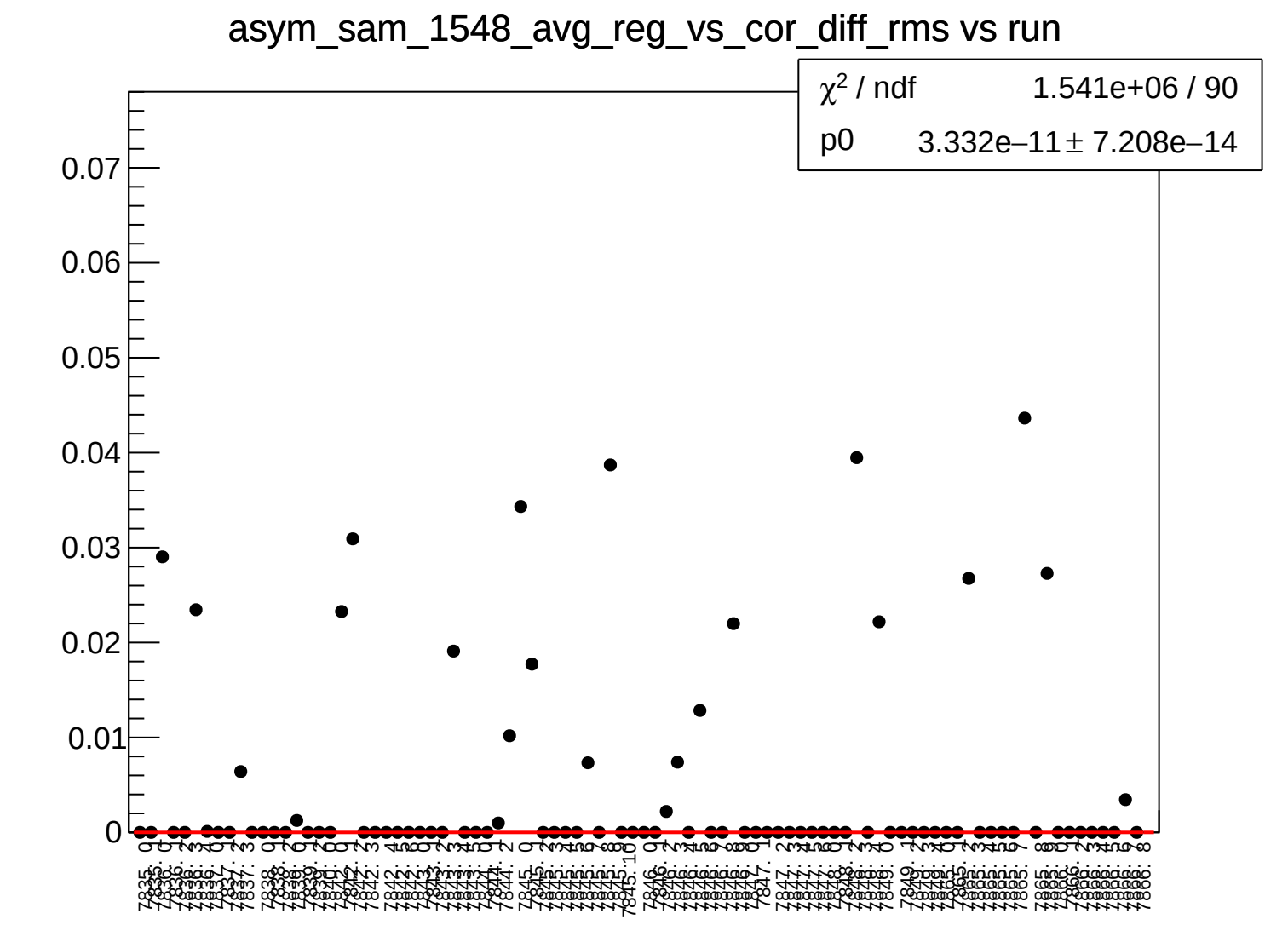

asym_sam_1548_avg_mean vs run
χ² / ndf 78.47 / 90
p0 875.5 ± 1643
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 175.2
Std Dev 0
2
1
0
−1
−2

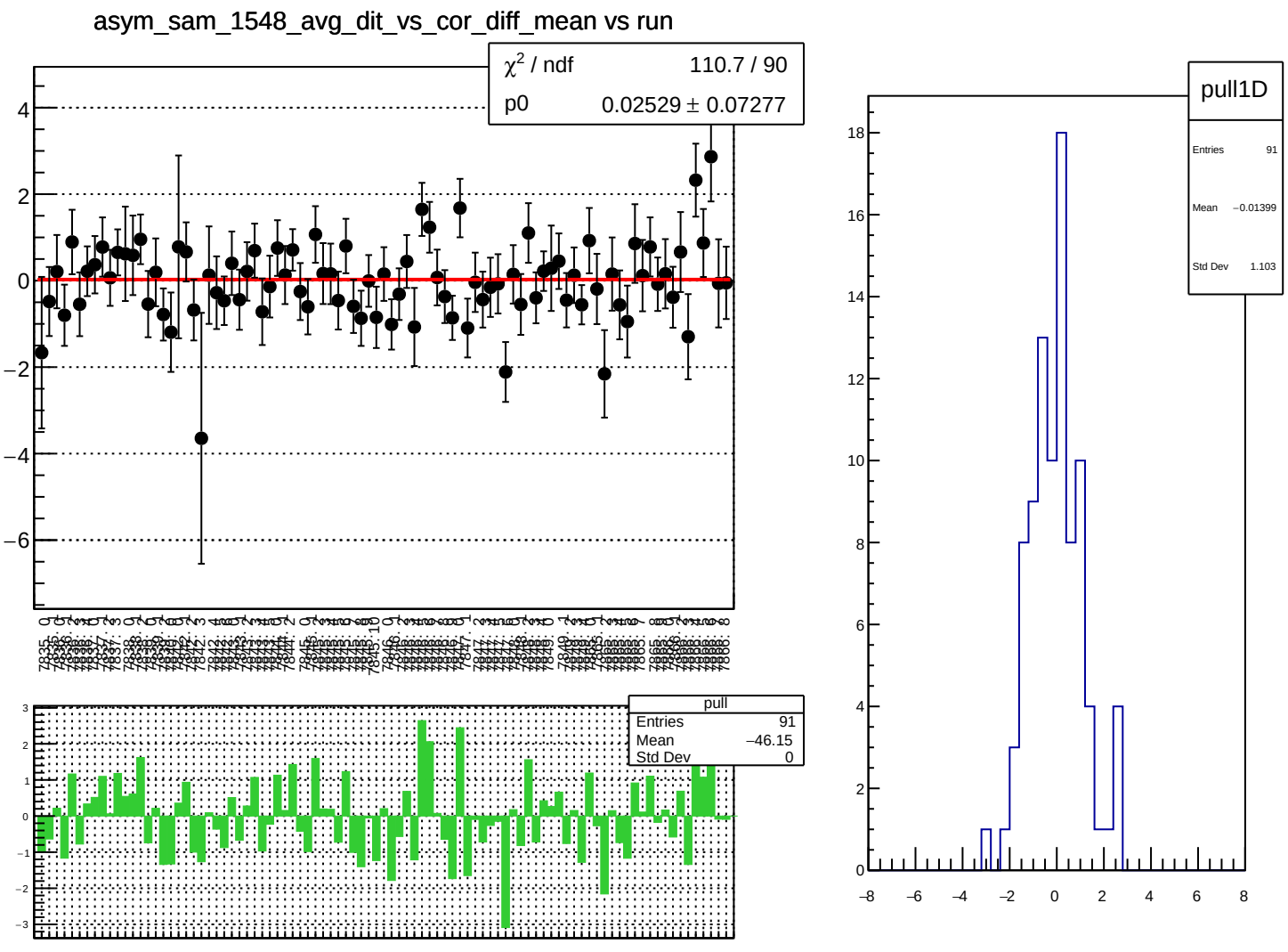

pull1D
Entries 91
Mean 0.01736
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

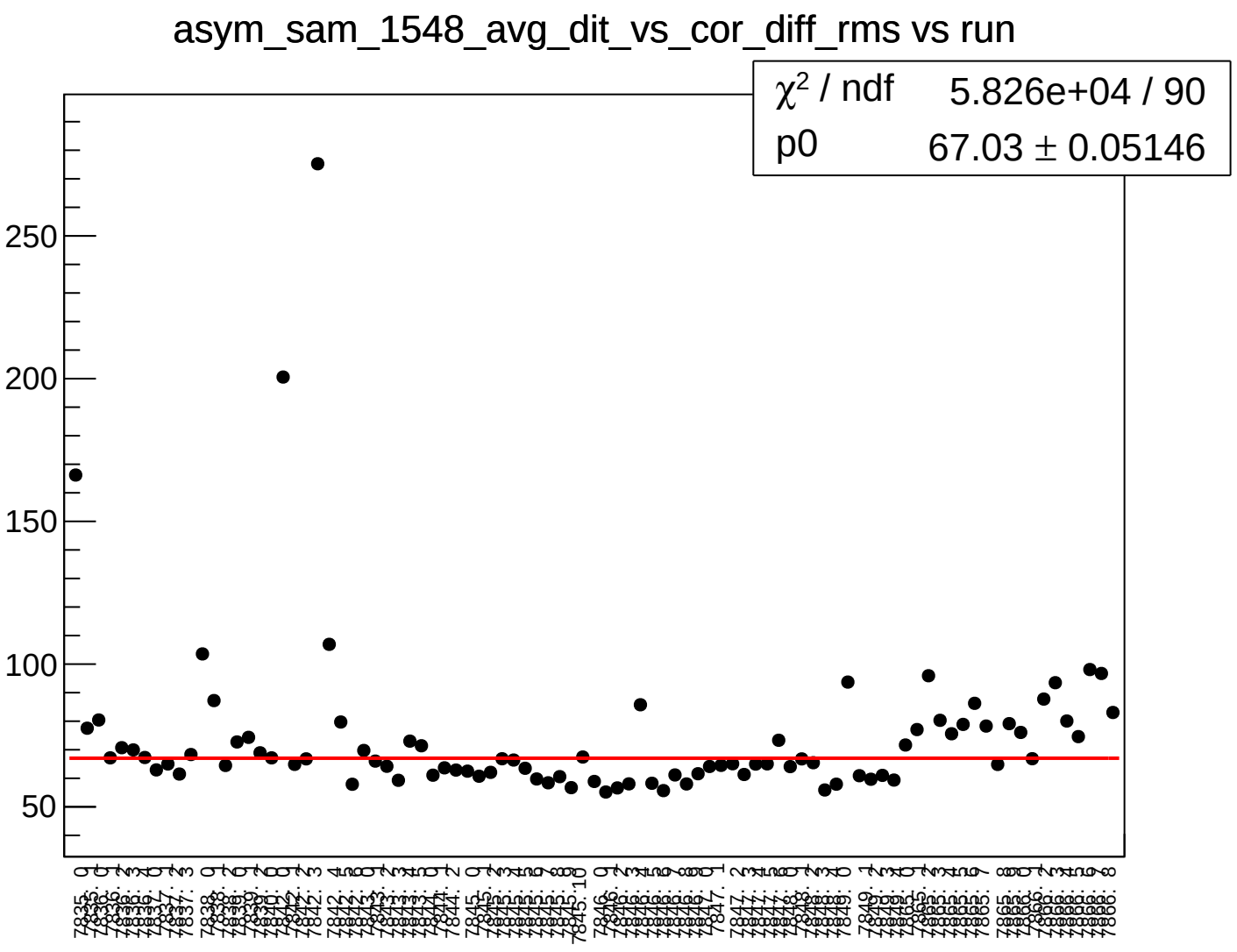

asym_sam_1548_avg_rms vs run
χ² / ndf 1.698e+04 / 90
p0 1531 ± 1.162
2200
2000
1800
1600
1400
1200

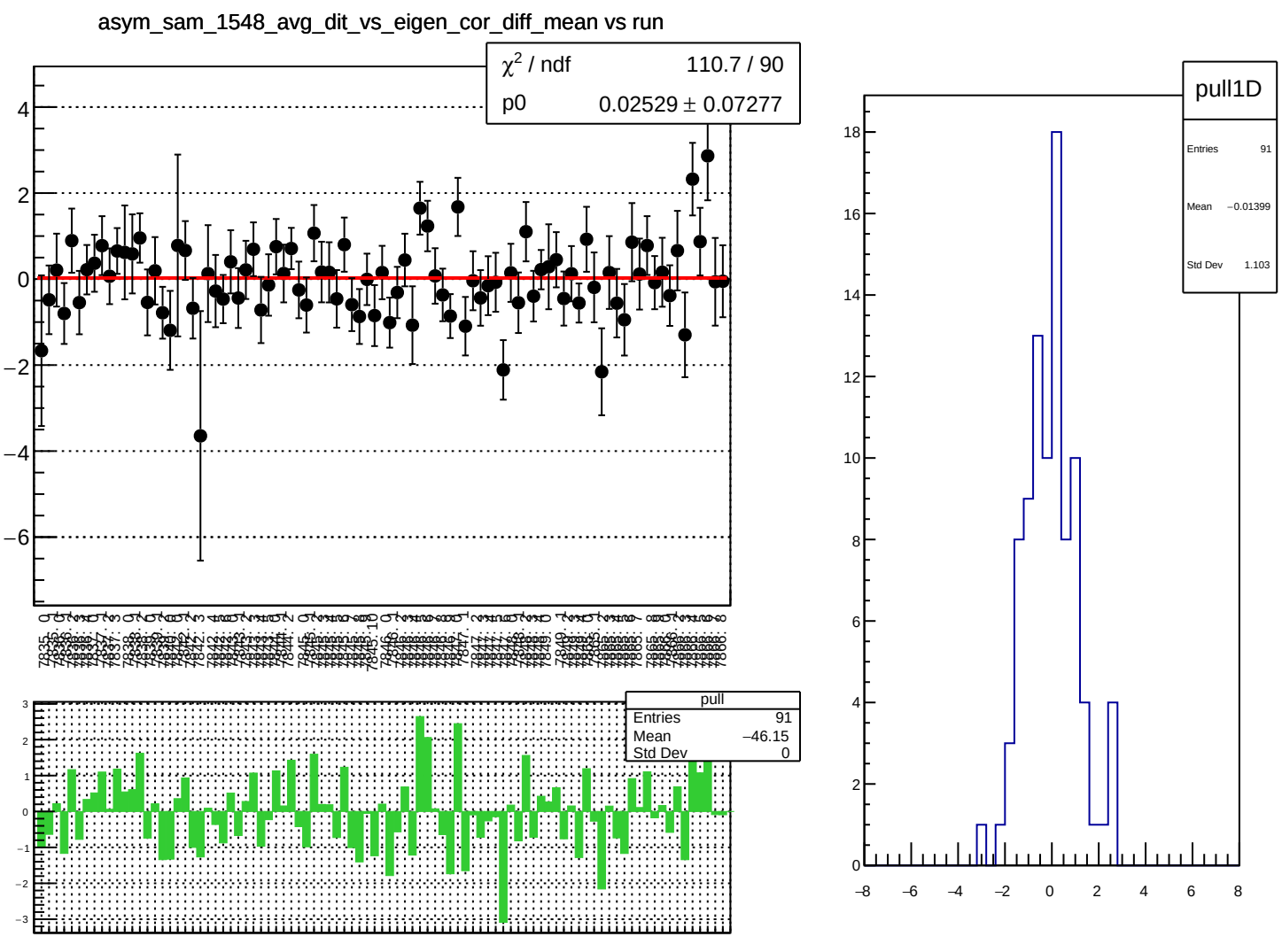

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.91 / 90
p0 6.531e−14 ± 1.019e−13
pull
Entries 91
Mean 285.5
Std Dev 0

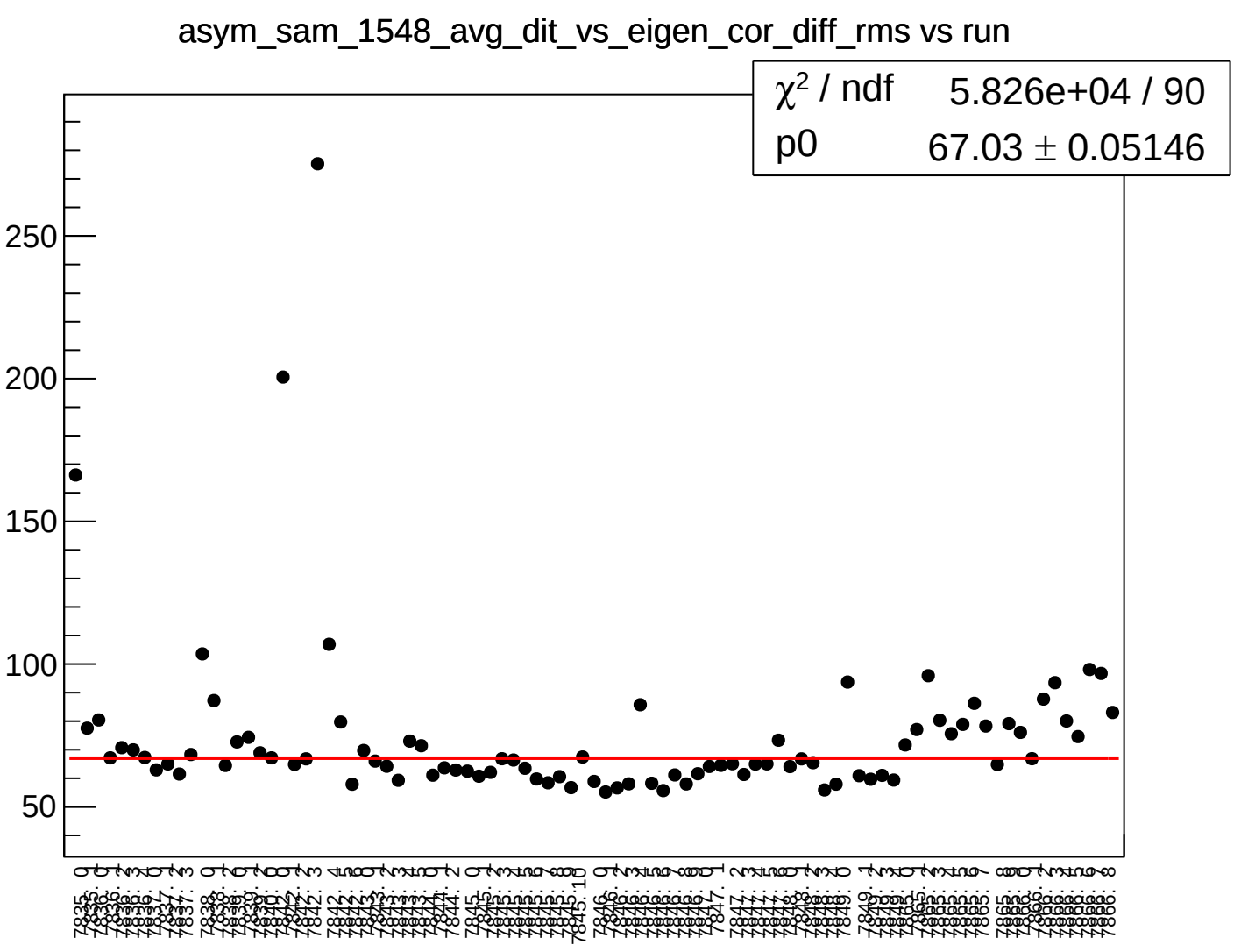

pull1D
Entries 91
Mean −0.01581
Std Dev 1.016

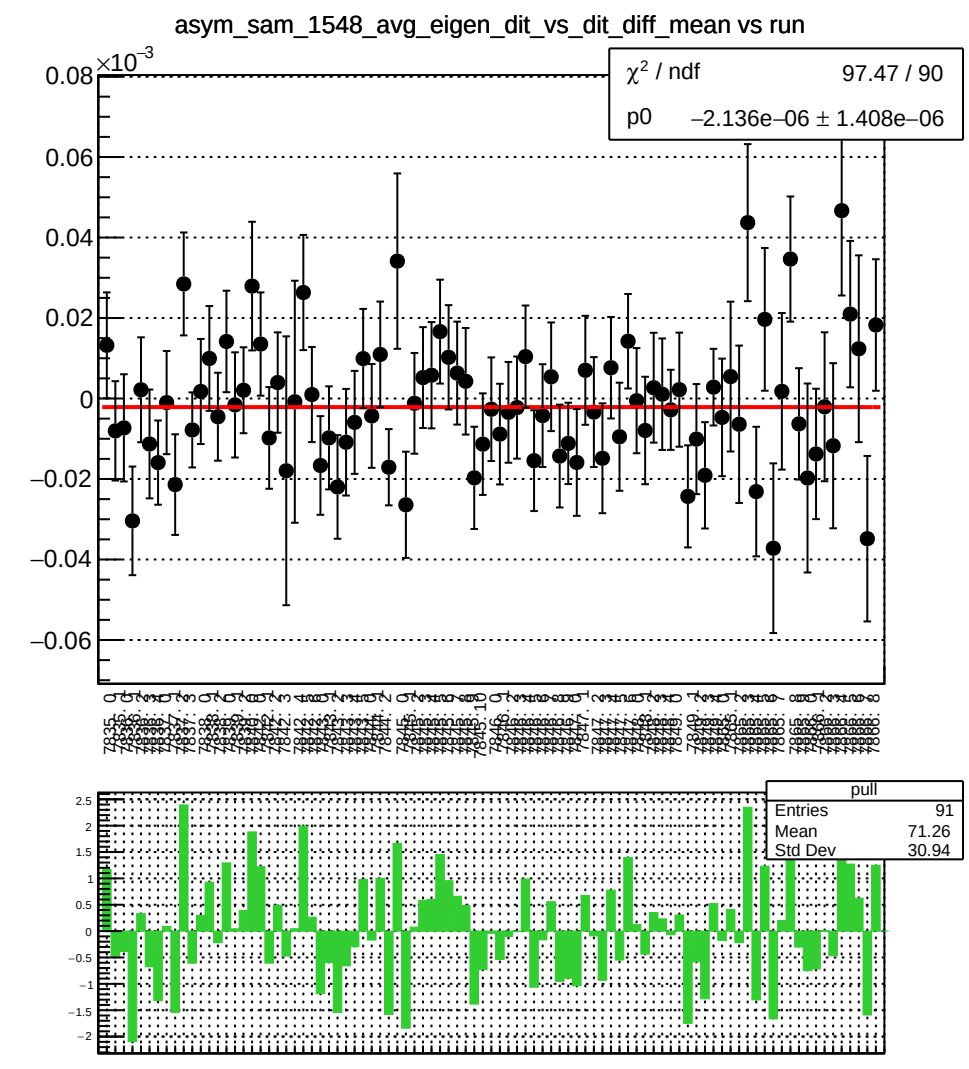

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.541e+06 / 90
p0 3.332e−11 ± 7.208e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

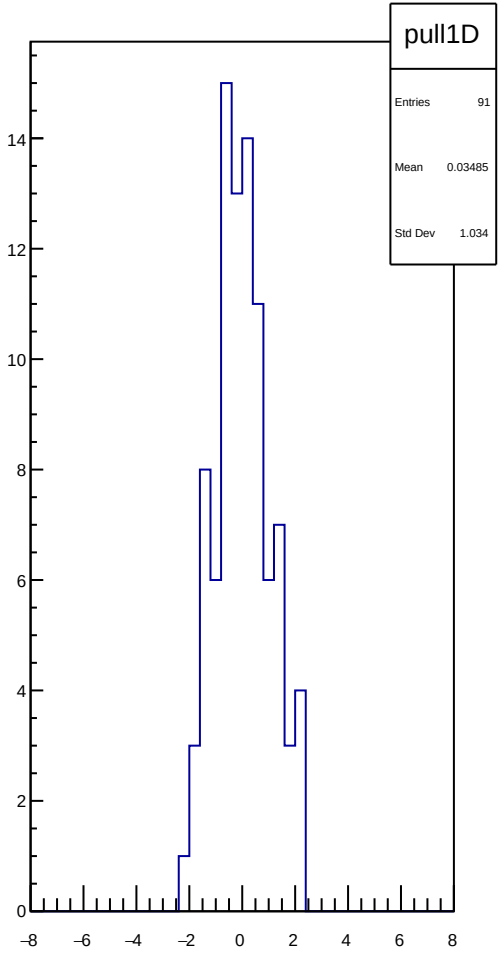

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02529 ± 0.07277
pull
Entries 91
Mean −46.15
Std Dev 0
pull1D
Entries 91
Mean −0.01399
Std Dev 1.103

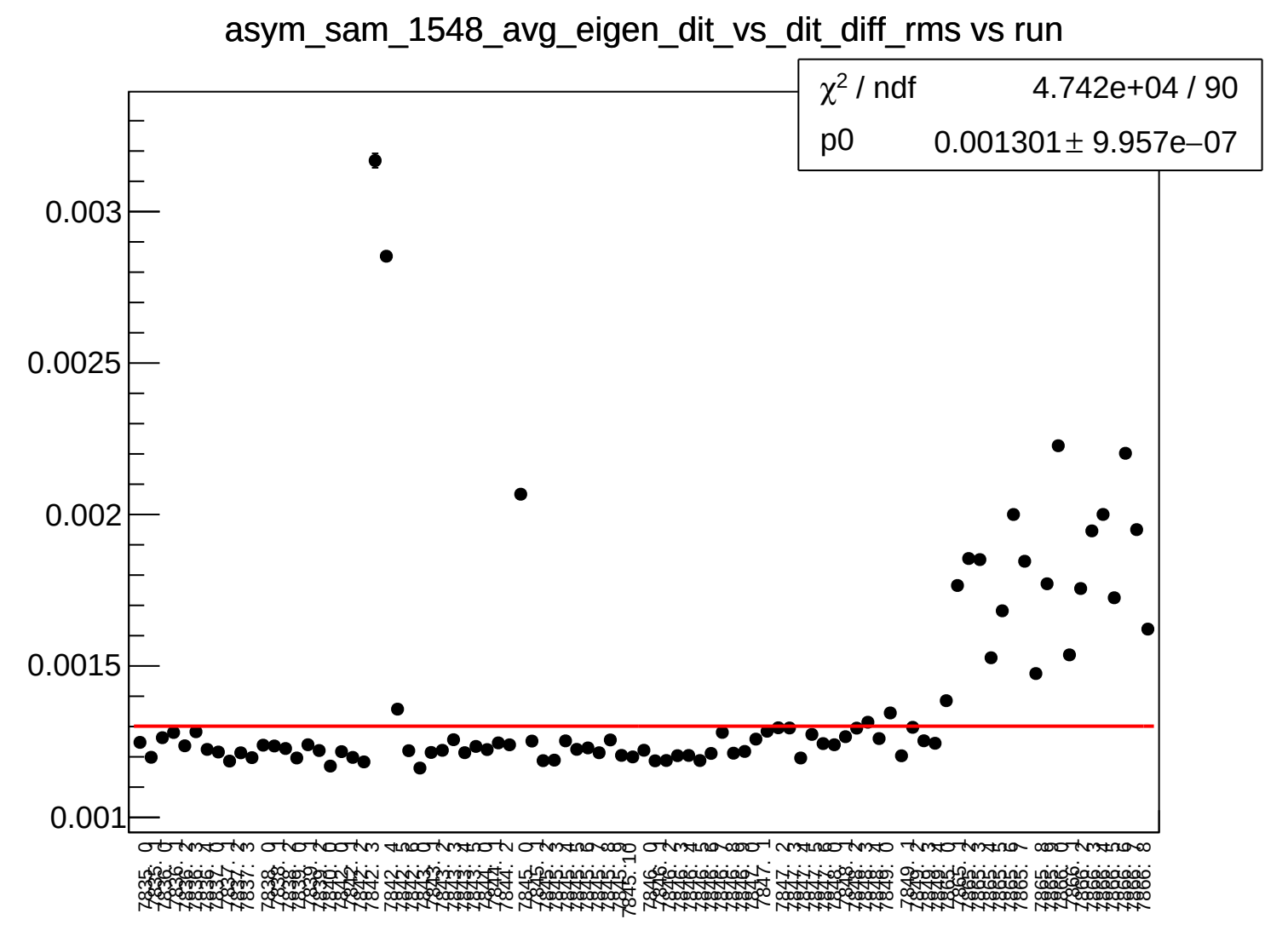

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.826e+04 / 90
p0 67.03 ± 0.05146
250
200
150
100
50

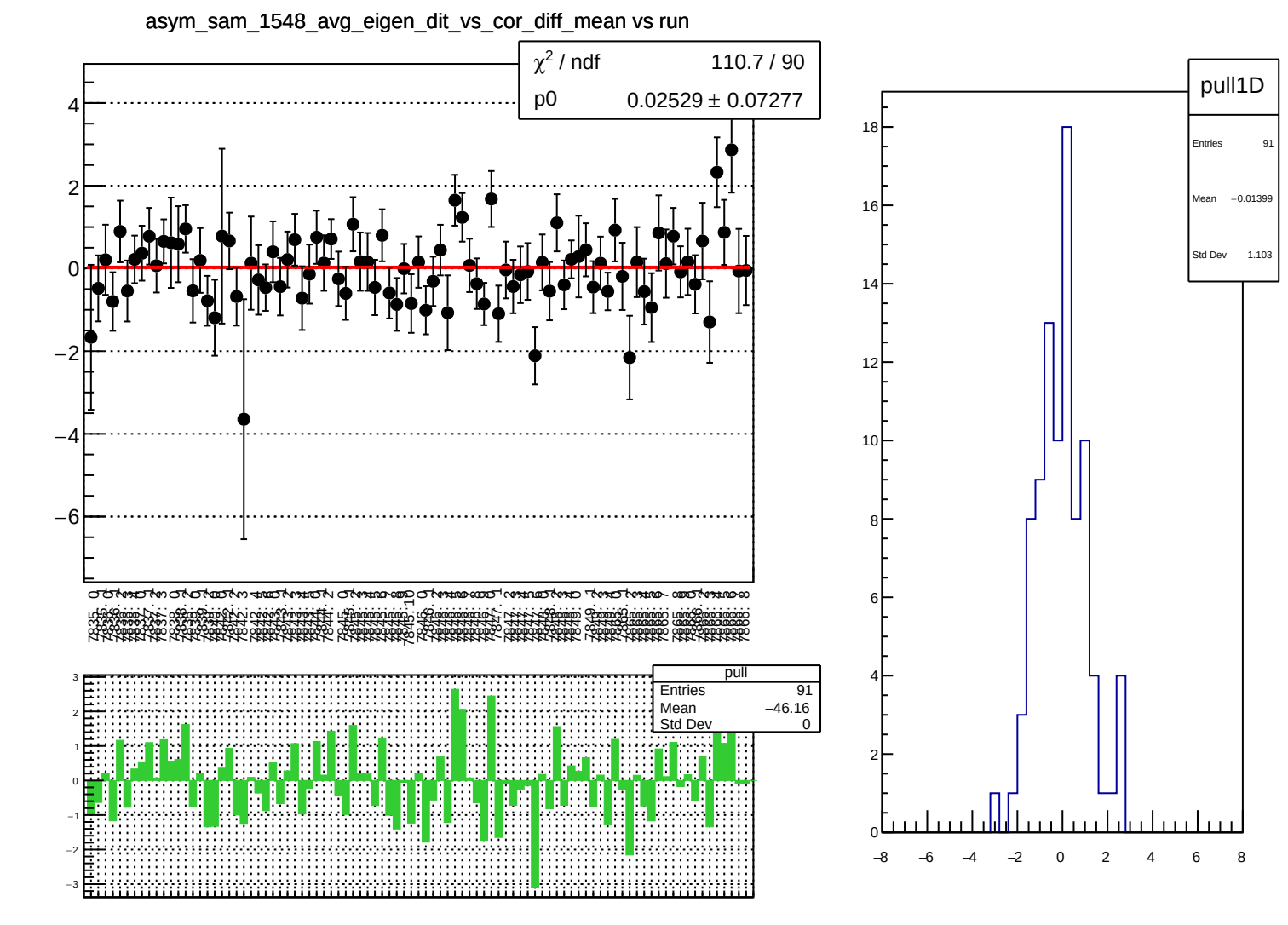

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02529 ± 0.07277
pull
Entries 91
Mean −46.15
Std Dev 0
pull1D
Entries 91
Mean −0.01399
Std Dev 1.103

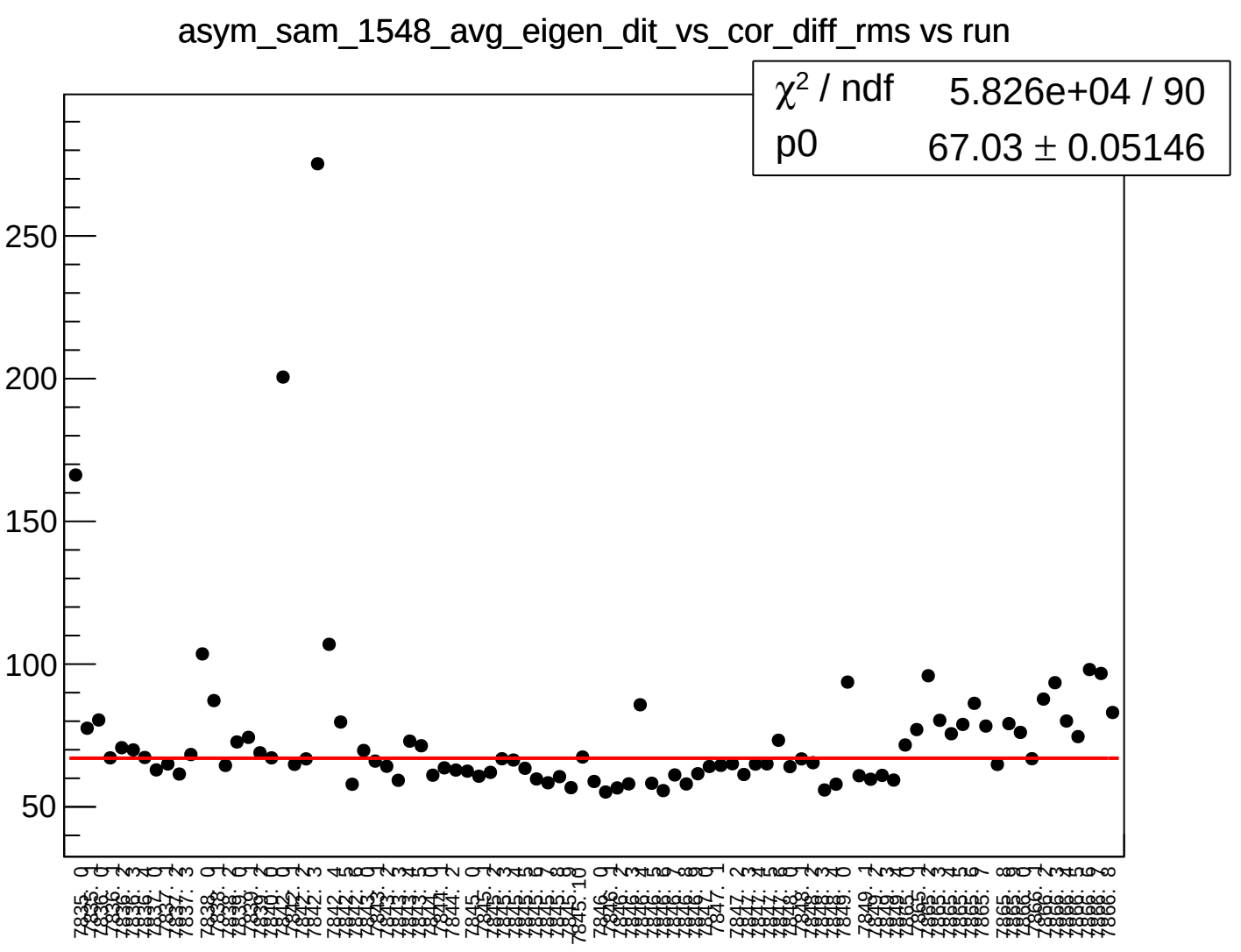

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.826e+04 / 90
p0 67.03 ± 0.05146
250
200
150
100
50

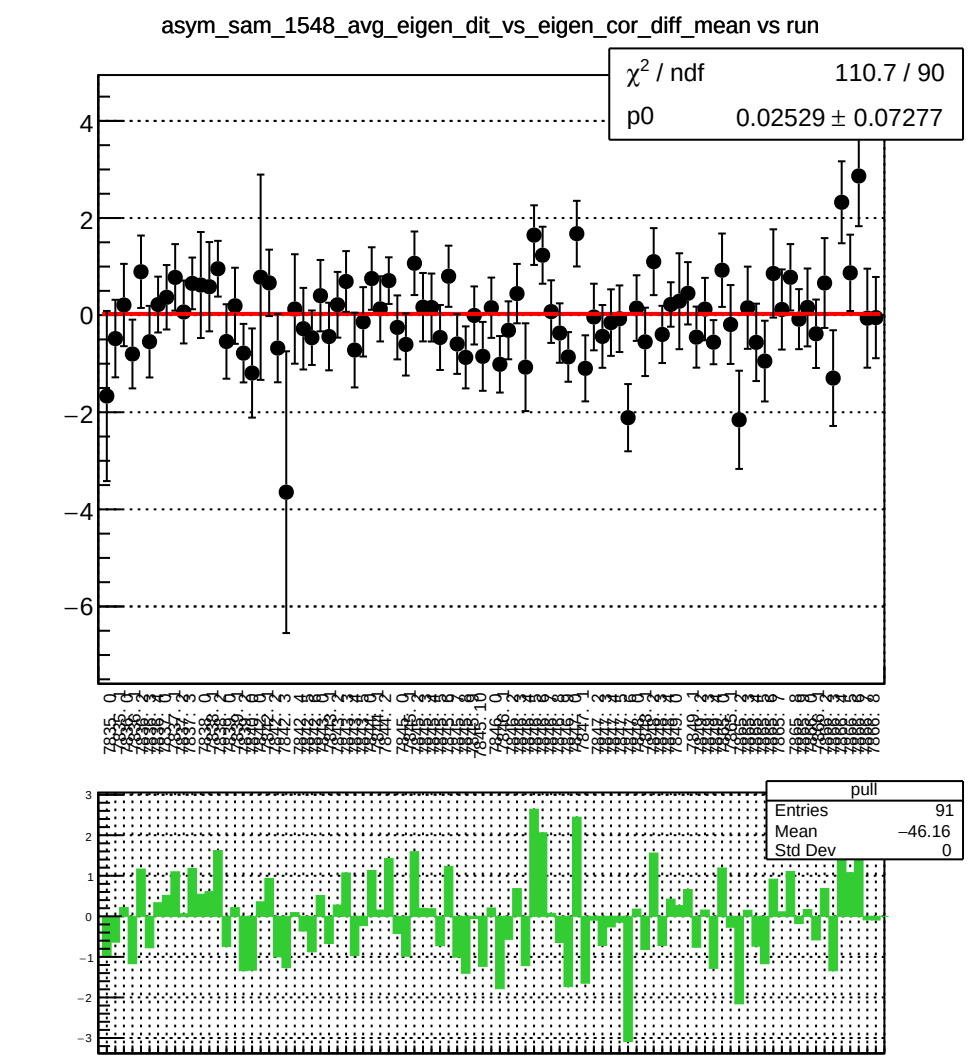

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.47 / 90
p0 −2.136e−06 ± 1.408e−06
pull
Entries 91
Mean 71.26
Std Dev 30.94

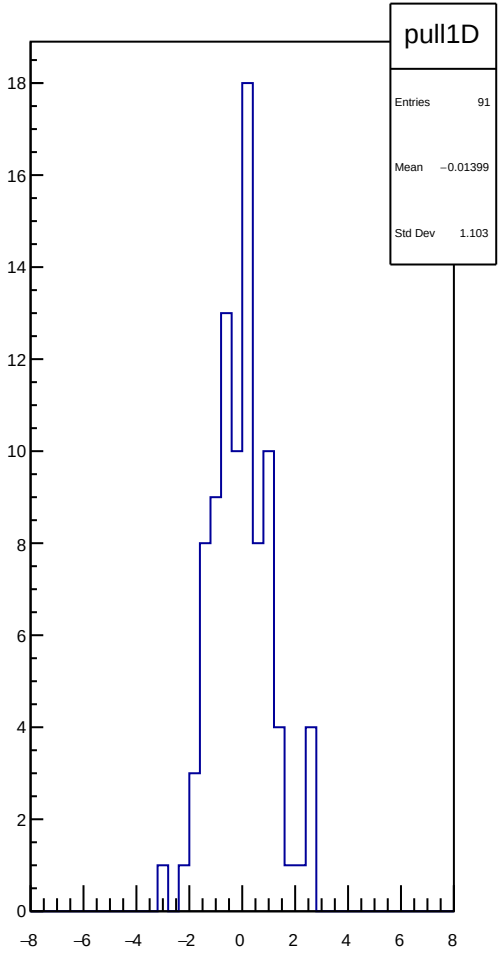

pull1D
Entries 91
Mean 0.03485
Std Dev 1.034

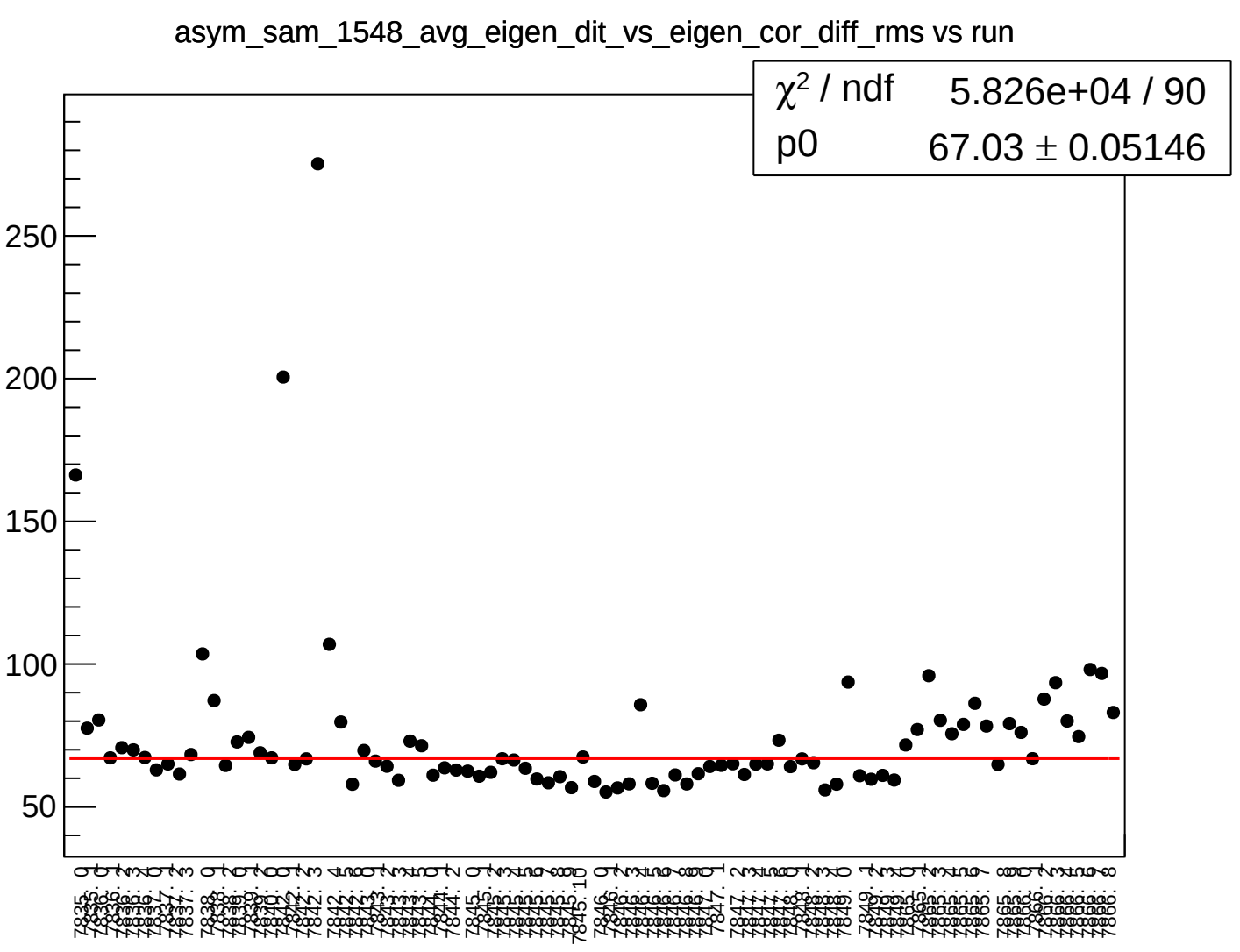

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.742e+04 / 90
p0 0.001301 ± 9.957e−07
0.003
0.0025
0.002
0.0015
0.001

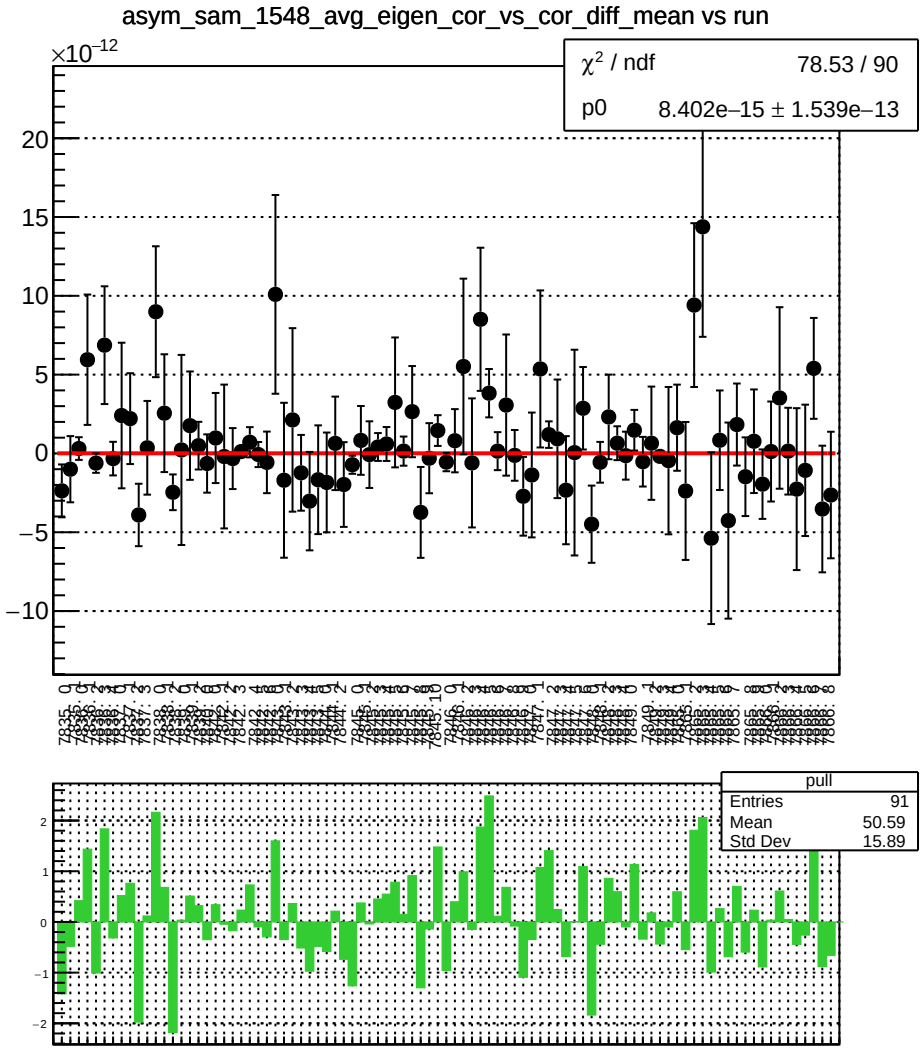

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02529 ± 0.07277
pull
Entries 91
Mean −46.16
Std Dev 0
pull1D
Entries 91
Mean −0.01399
Std Dev 1.103

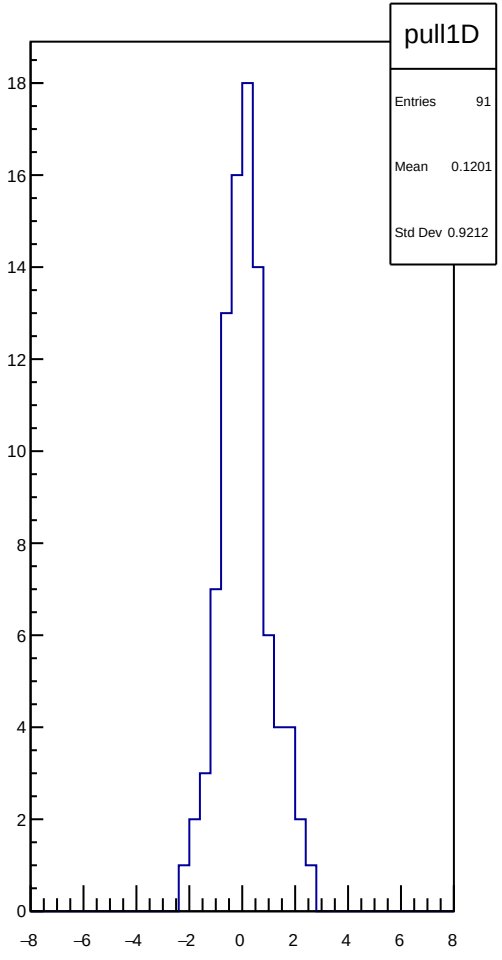

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.826e+04 / 90
p0 67.03 ± 0.05146
250
200
150
100
50

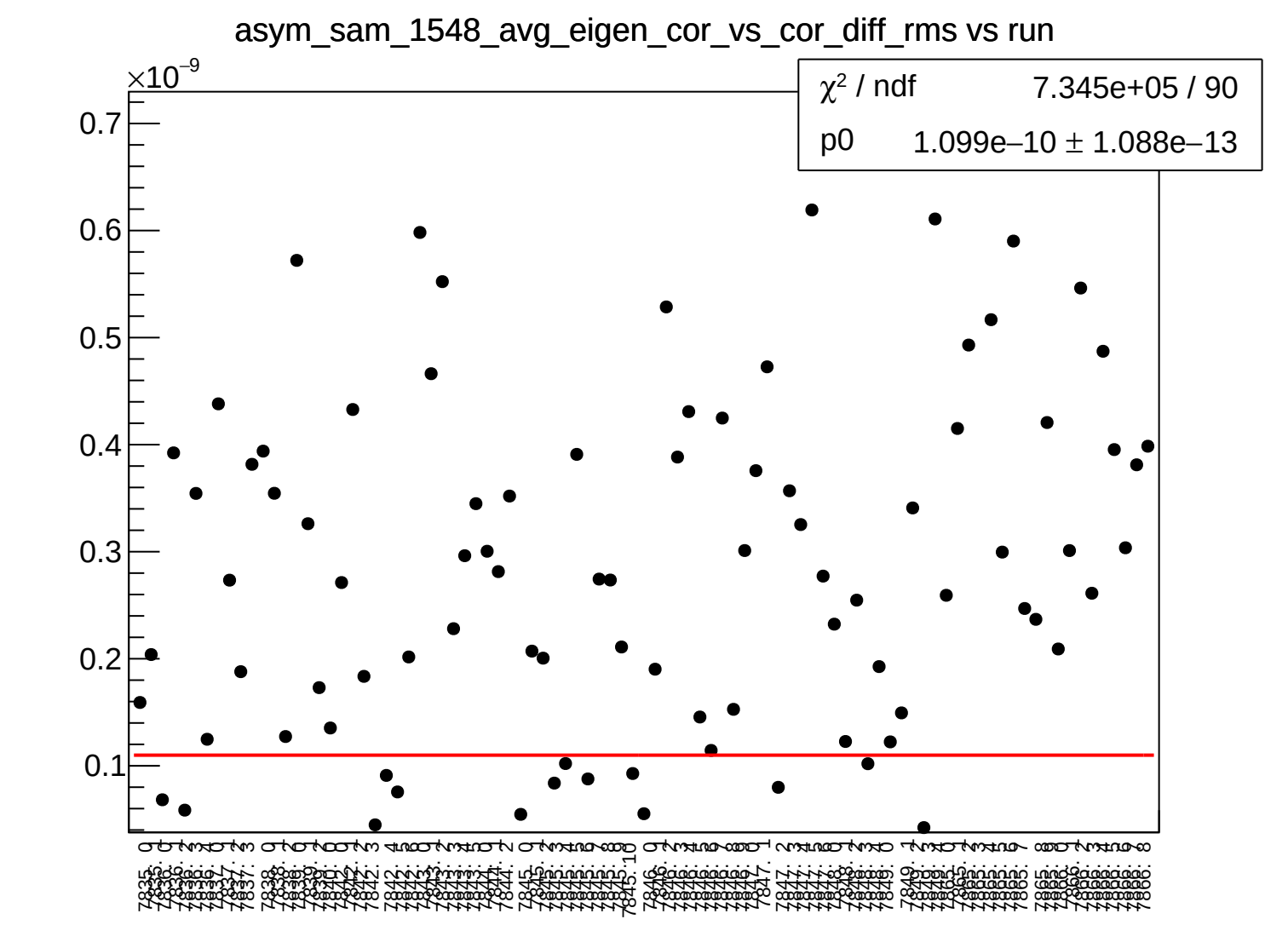

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 0.02529 ± 0.07277
pull
Entries 91
Mean −46.16
Std Dev 0

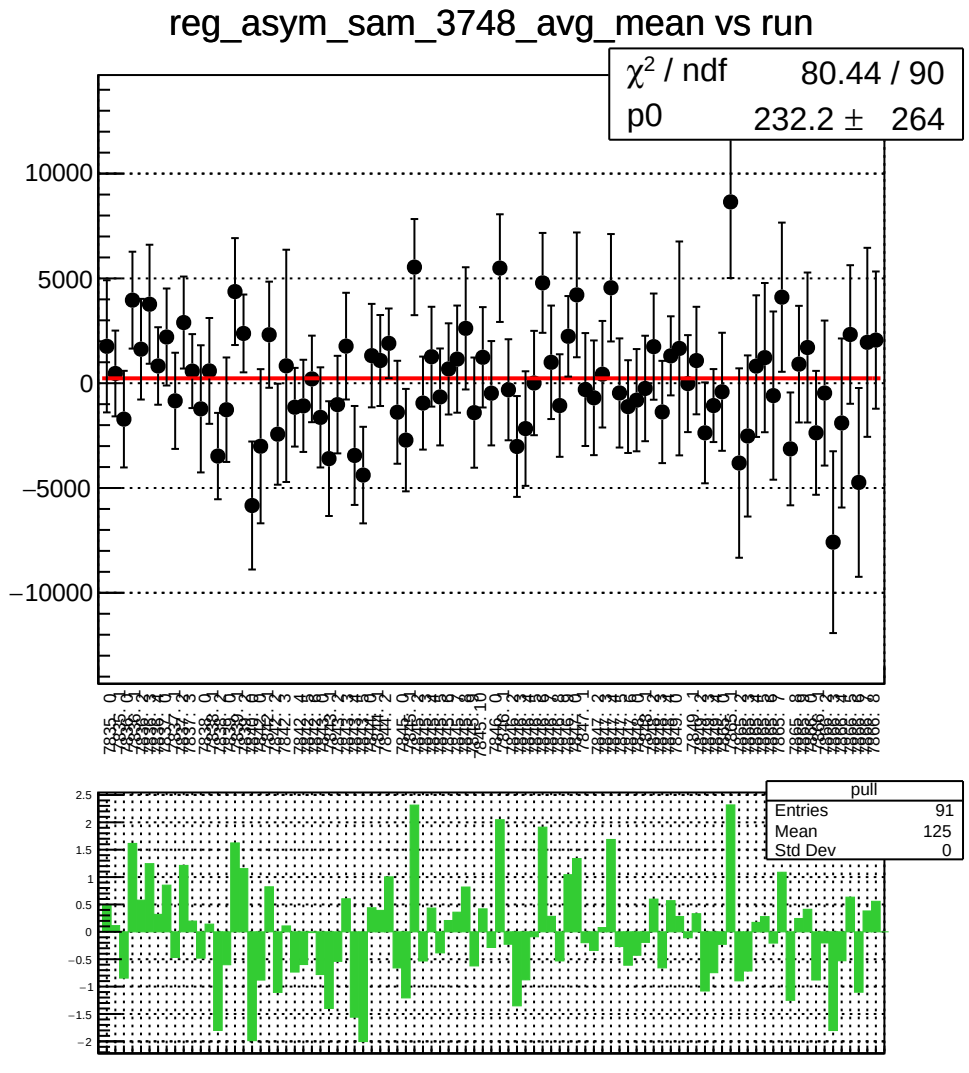

pull1D
Entries 91
Mean −0.01399
Std Dev 1.103

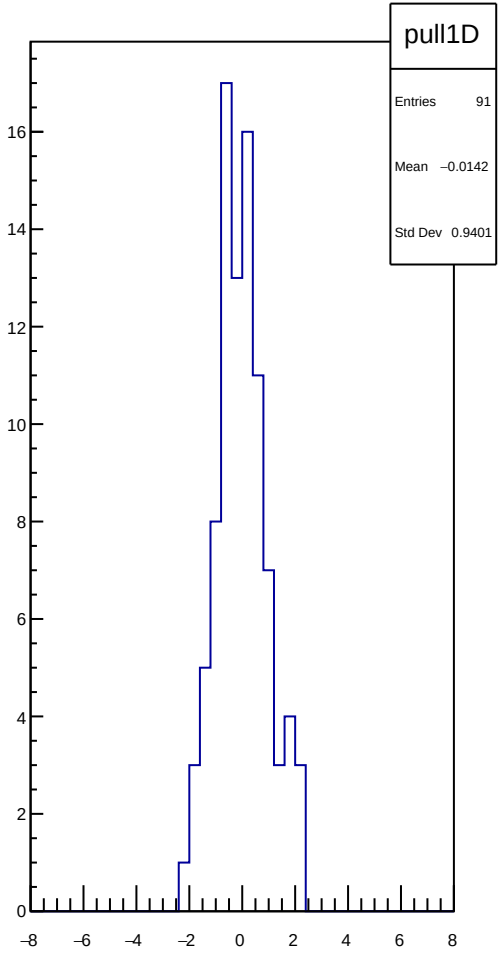

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.826e+04 / 90
p0 67.03 ± 0.05146
250
200
150
100
50

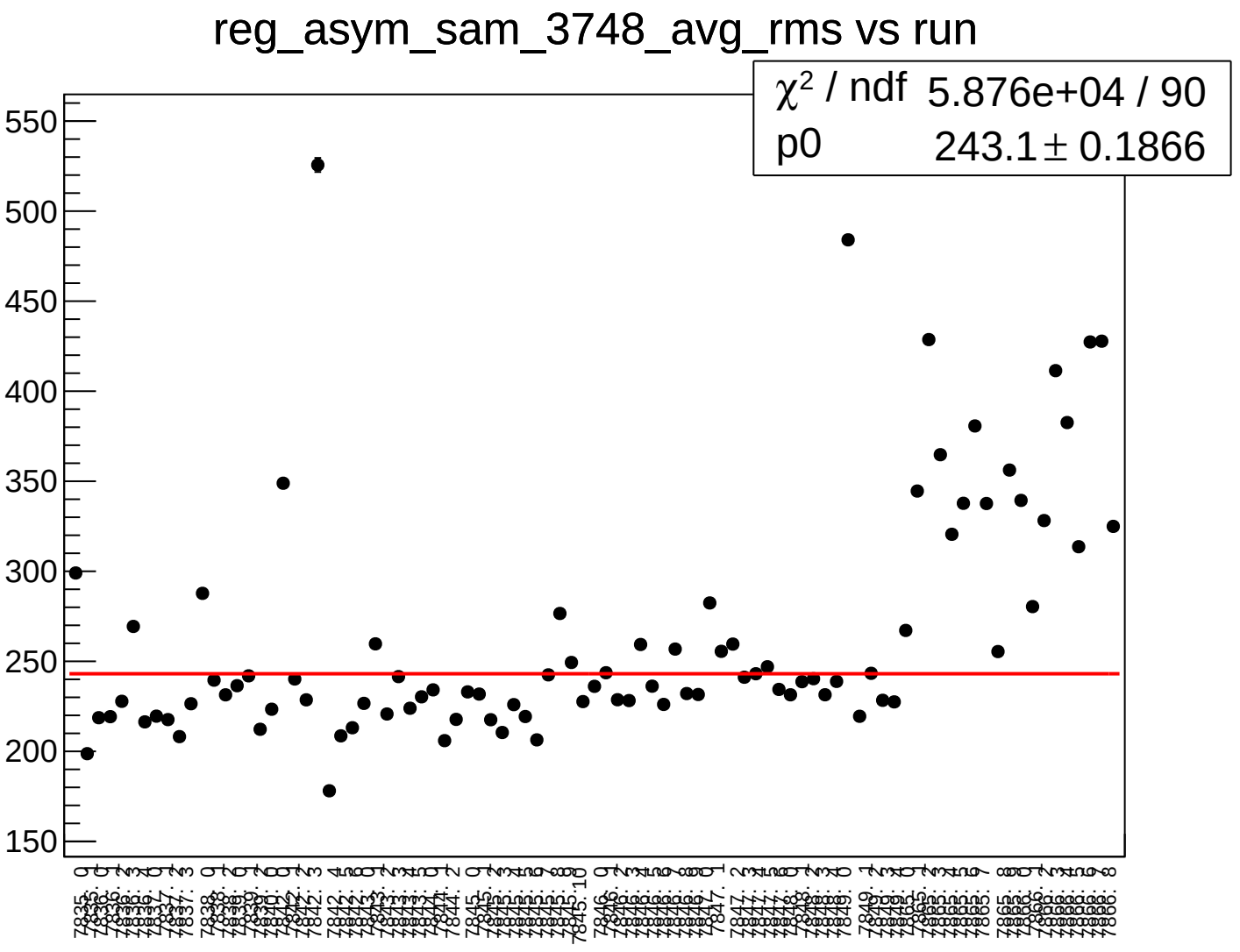

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.53 / 90
p0 8.402e−15 ± 1.539e−13
pull
Entries 91
Mean 50.59
Std Dev 15.89

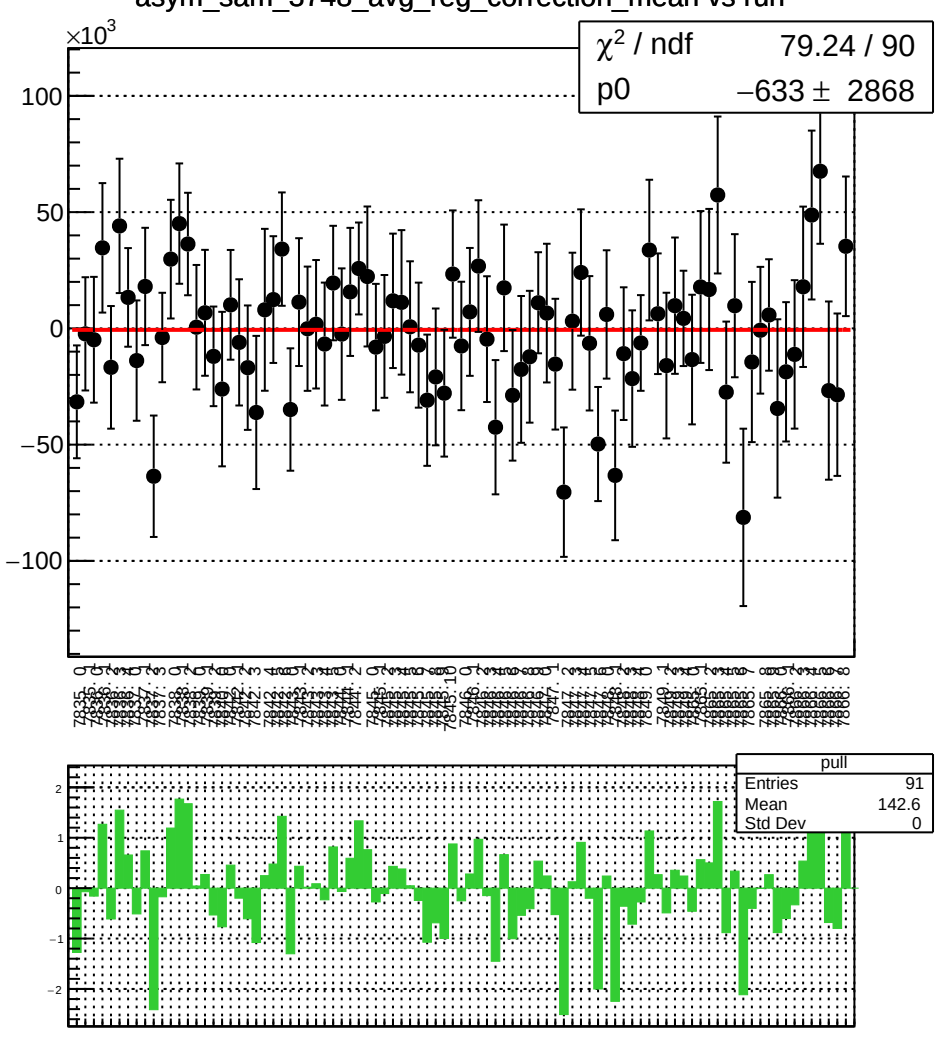

pull1D
Entries 91
Mean 0.1201
Std Dev 0.9212

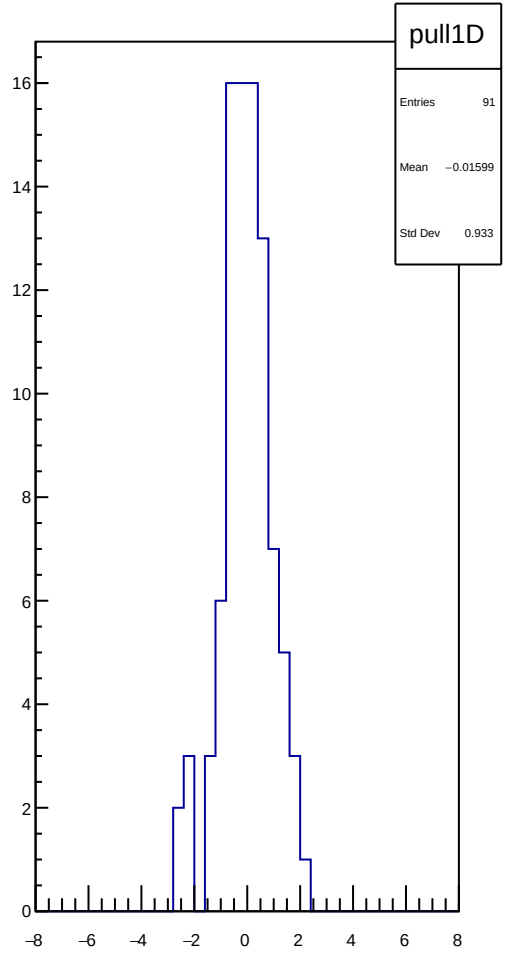

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.345e+05 / 90
p0 1.099e−10 ± 1.088e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

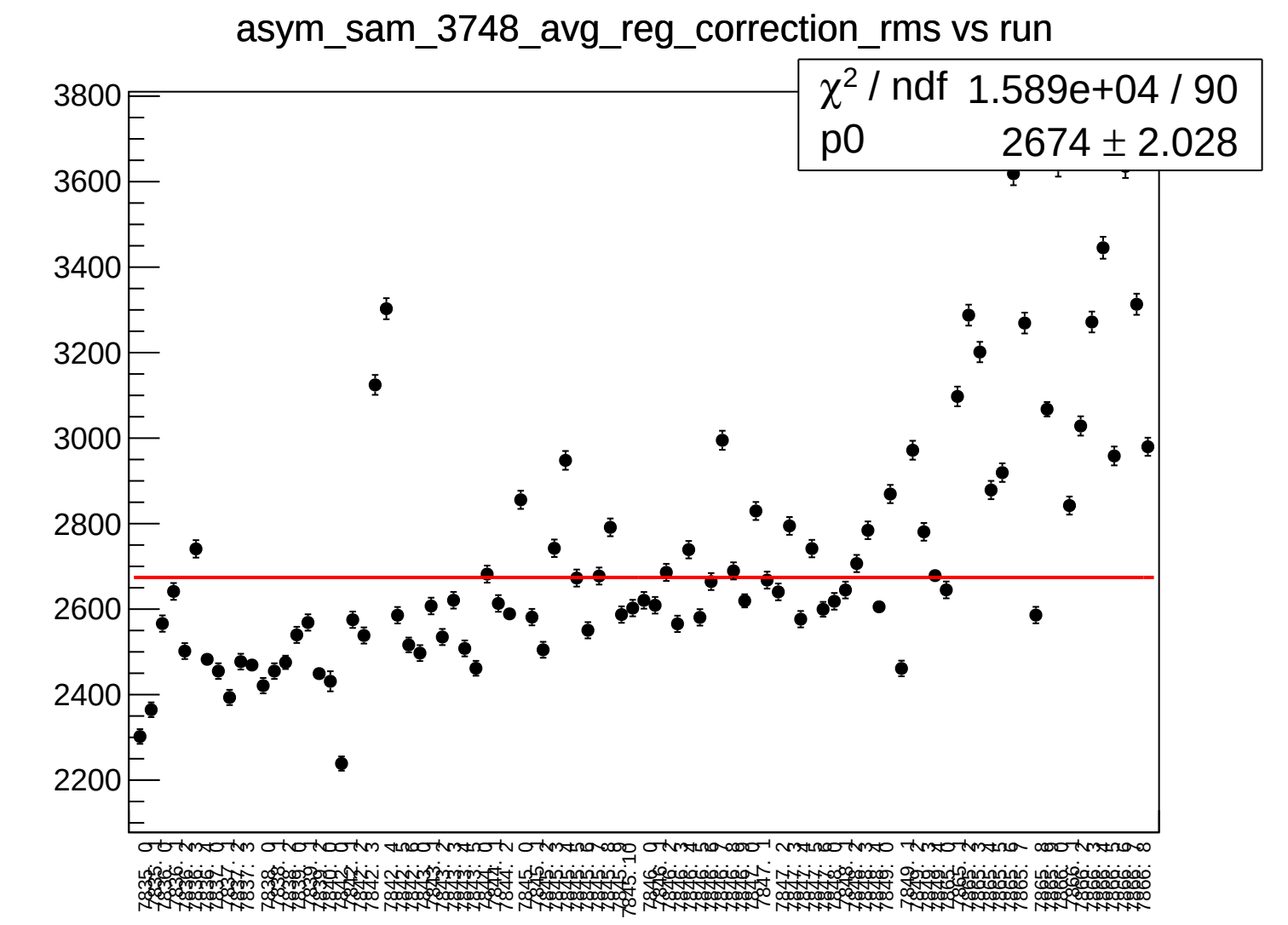

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 80.44 / 90
p0 232.2 ± 264
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 125
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

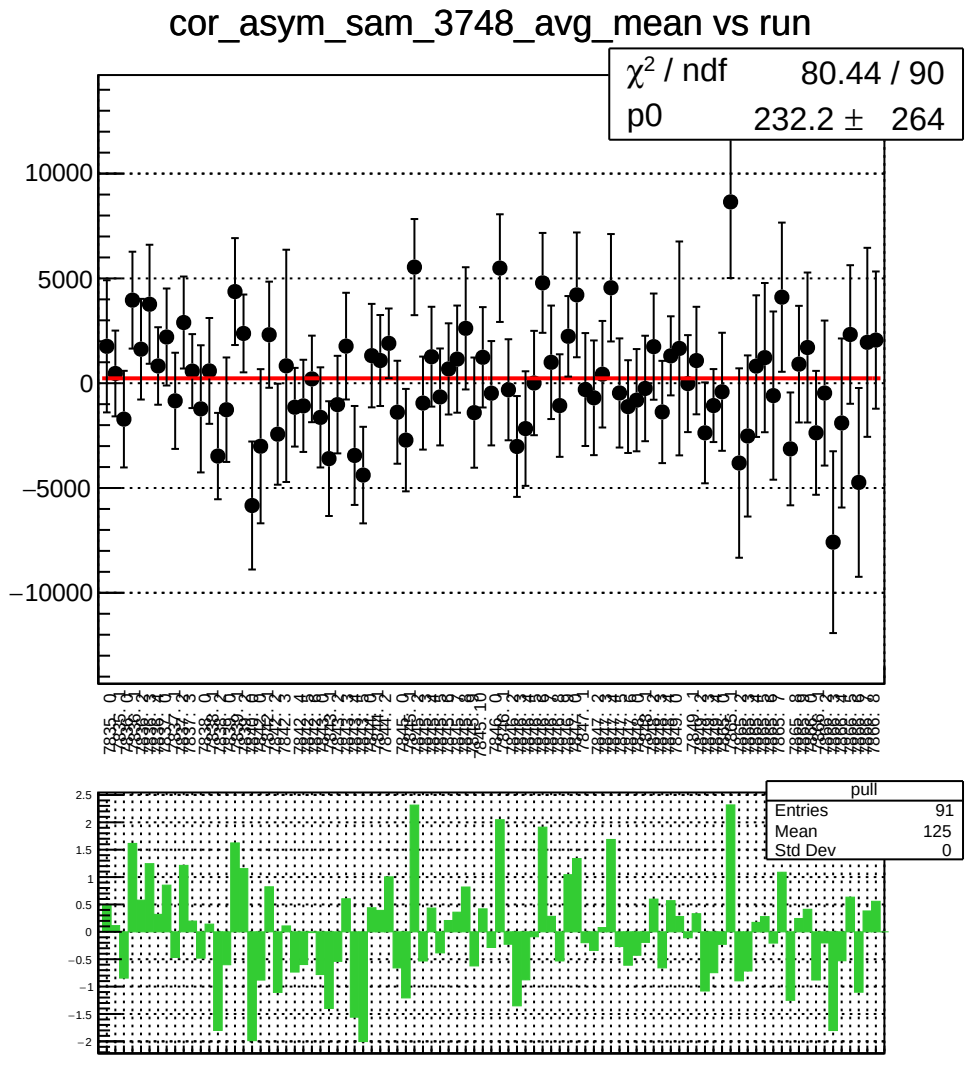

pull1D
Entries 91
Mean −0.0142
Std Dev 0.9401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

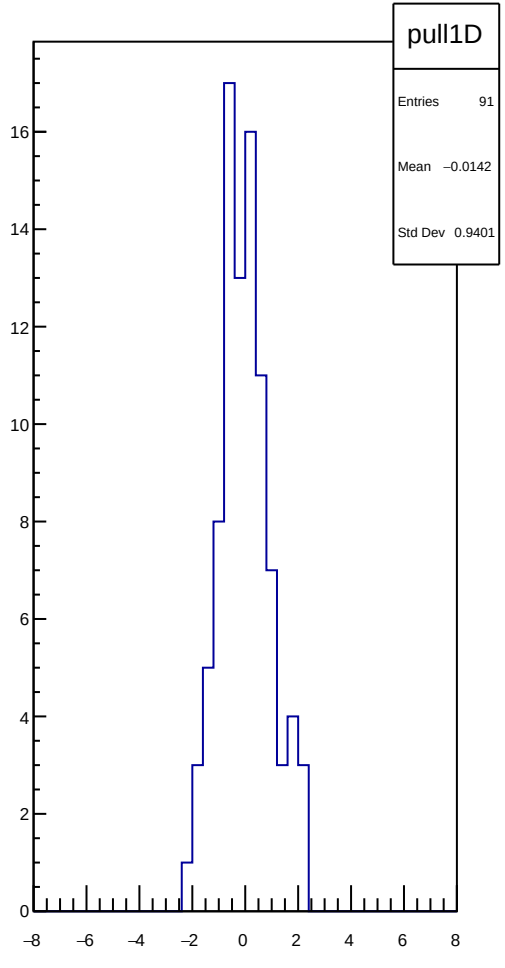

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 5.876e+04 / 90
p0 243.1 ± 0.1866
550
500
450
400
350
300
250
200
150

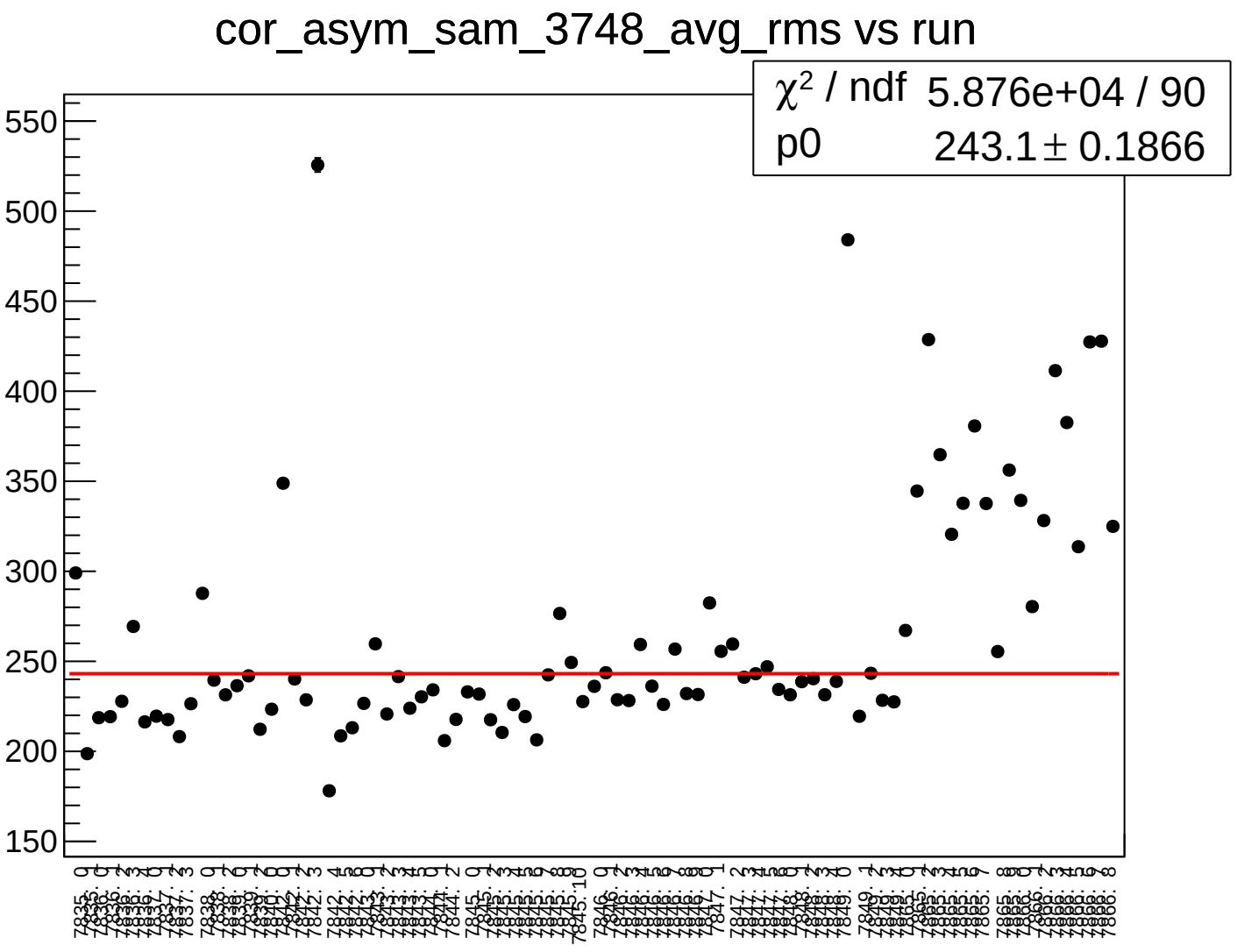

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.24 / 90
p0 −633 ± 2868
100
50
0
−50
−100
pull
Entries 91
Mean 142.6
Std Dev 0
2
1
0
−1
−2

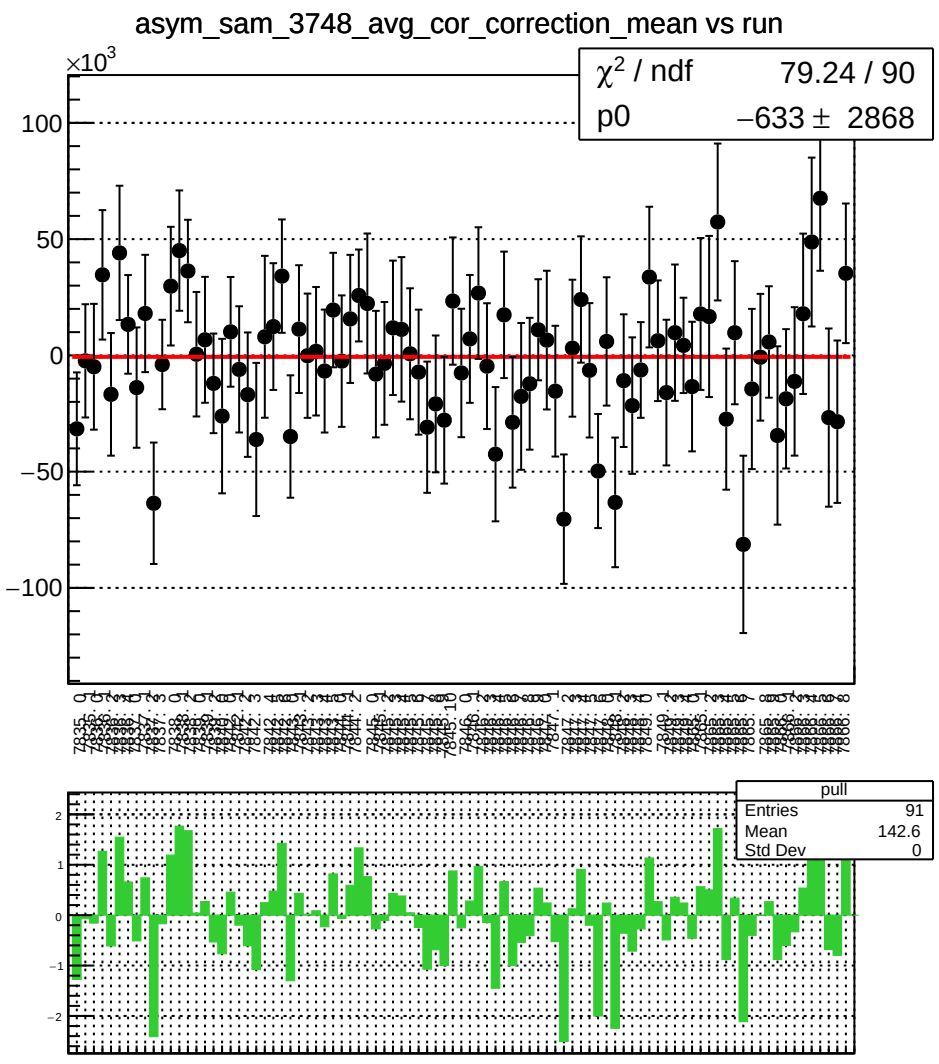

pull1D
Entries 91
Mean −0.01599
Std Dev 0.933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

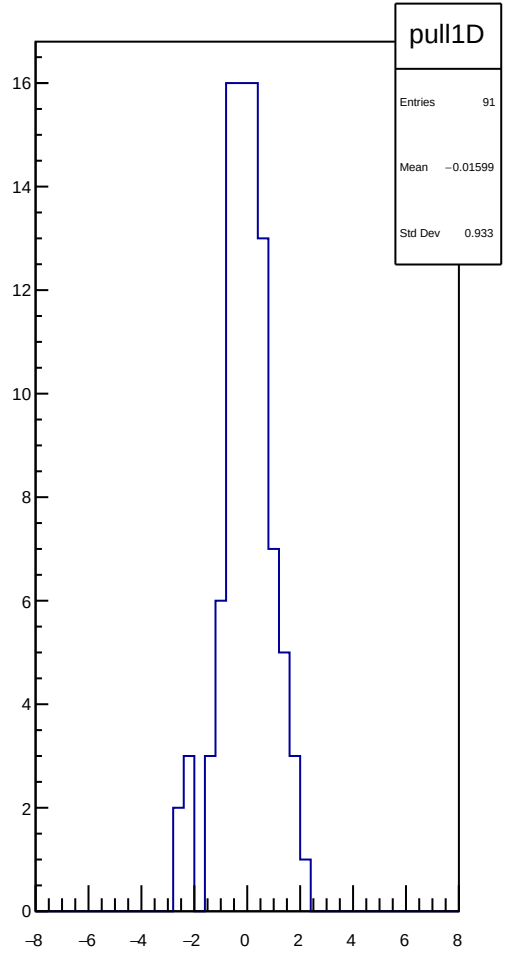

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.589e+04 / 90
p0 2674 ± 2.028
3800
3600
3400
3200
3000
2800
2600
2400
2200

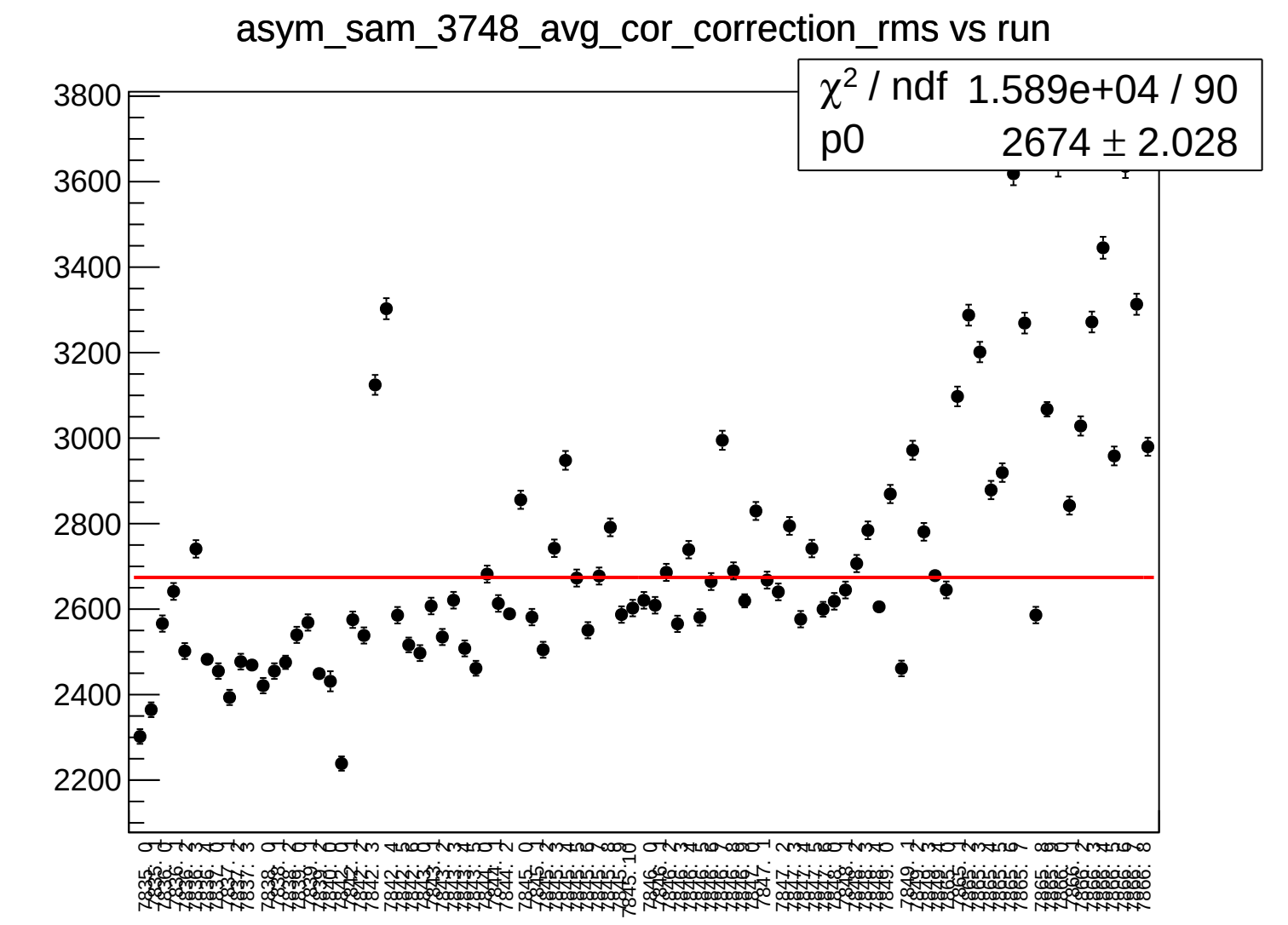

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 80.44 / 90
p0 232.2 ± 264
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 125
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

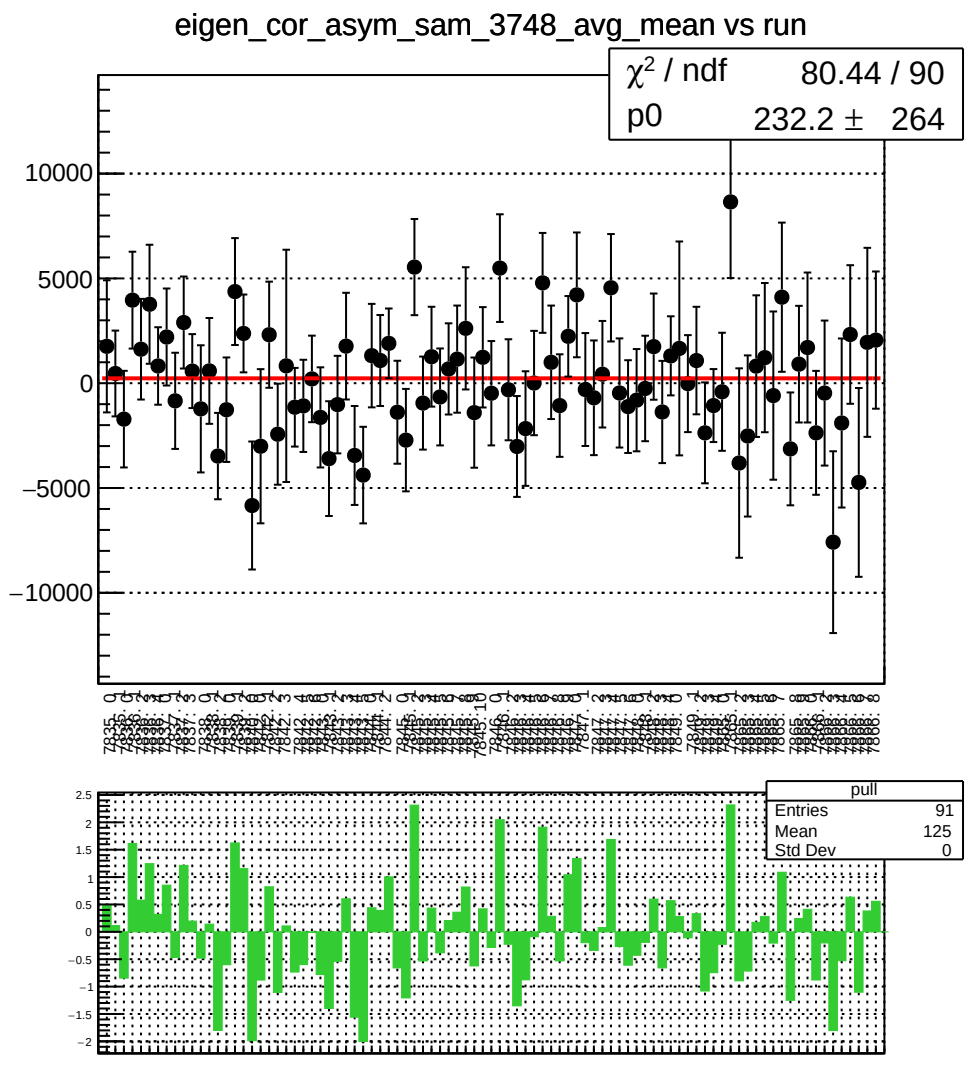

pull1D
Entries 91
Mean −0.0142
Std Dev 0.9401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

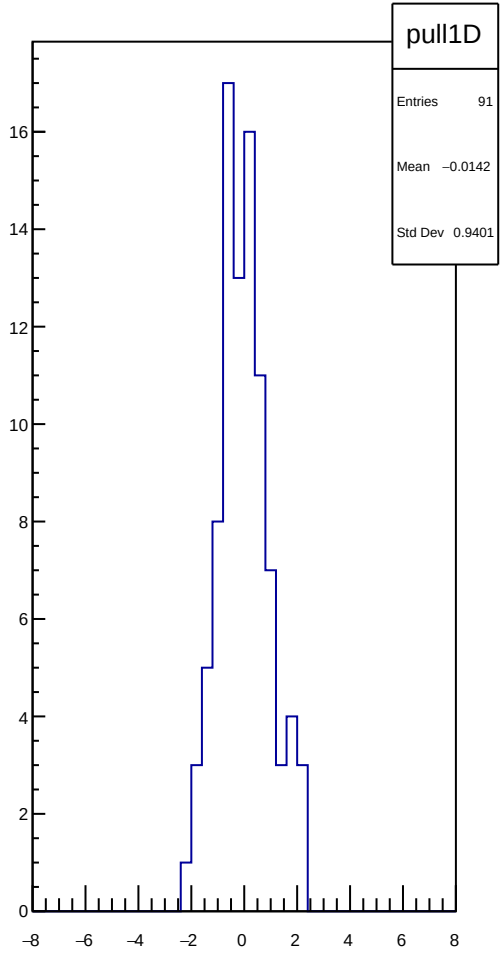

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5.876e+04 / 90
p0 243.1 ± 0.1866
550
500
450
400
350
300
250
200
150

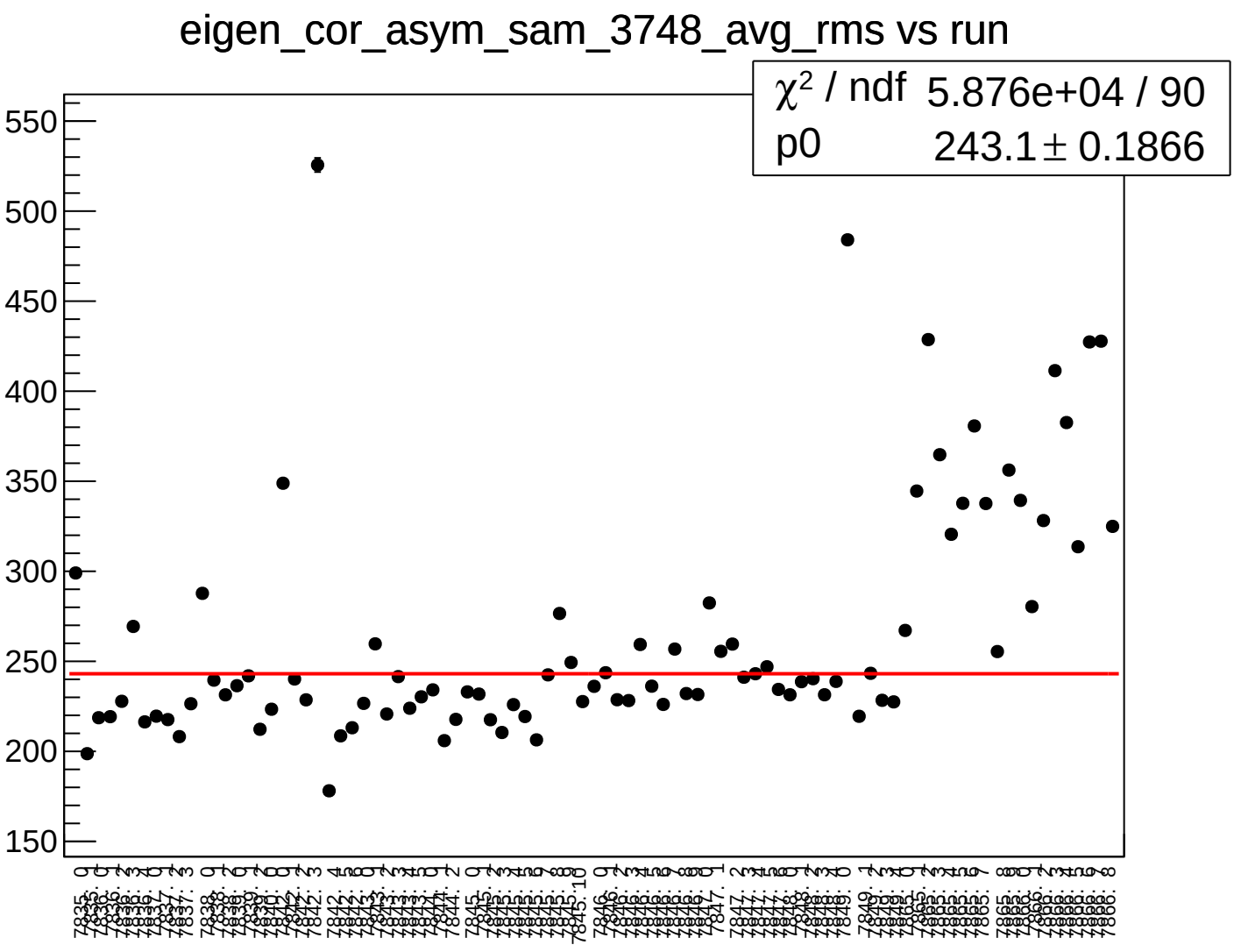

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.24 / 90
p0 −633 ± 2868
100
50
0
−50
−100
pull
Entries 91
Mean 142.6
Std Dev 0
2
1
0
−1
−2

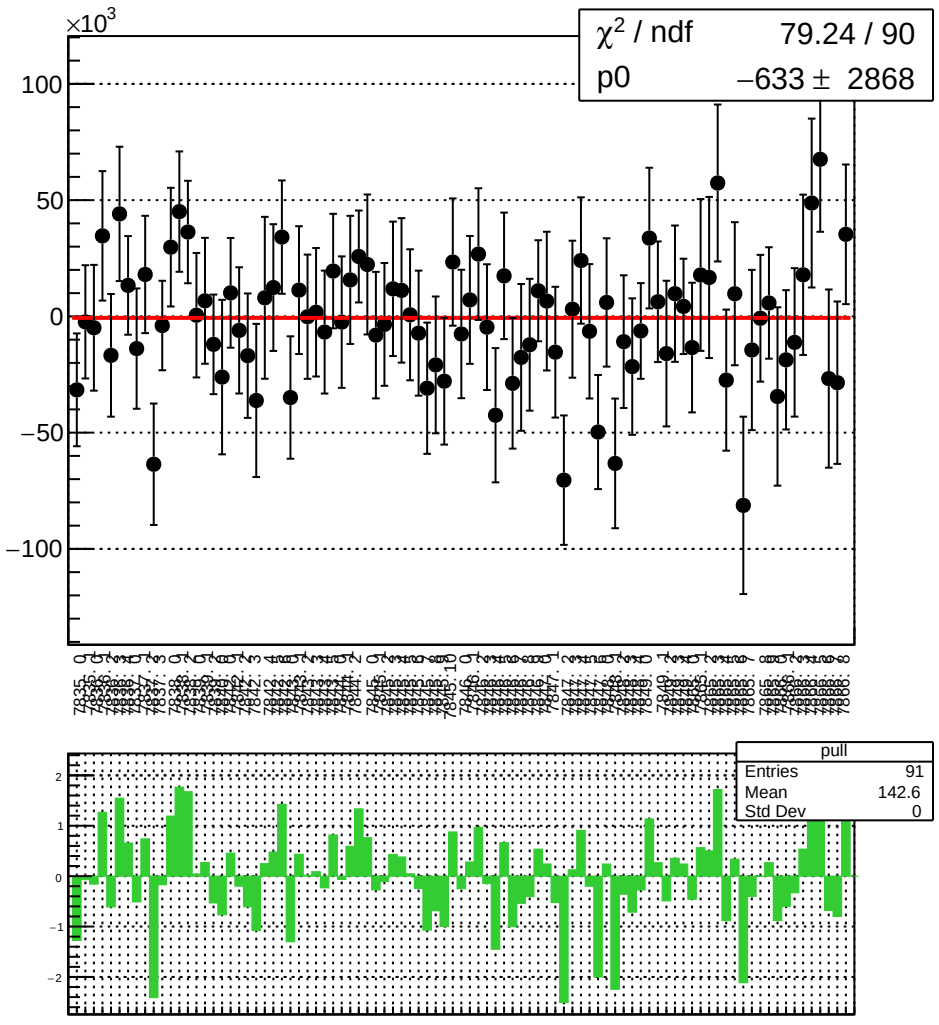

pull1D
Entries 91
Mean −0.01599
Std Dev 0.933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

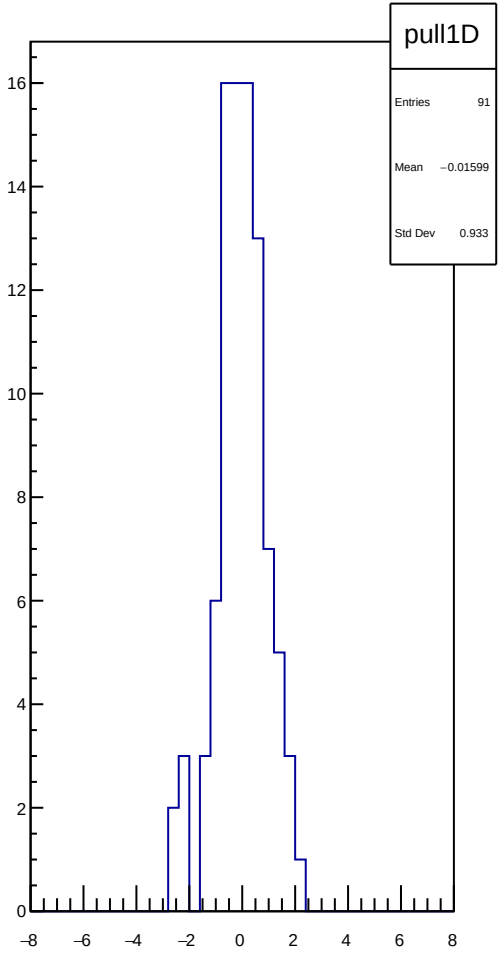

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.589e+04 / 90
p0 2674 ± 2.028
3800
3600
3400
3200
3000
2800
2600
2400
2200

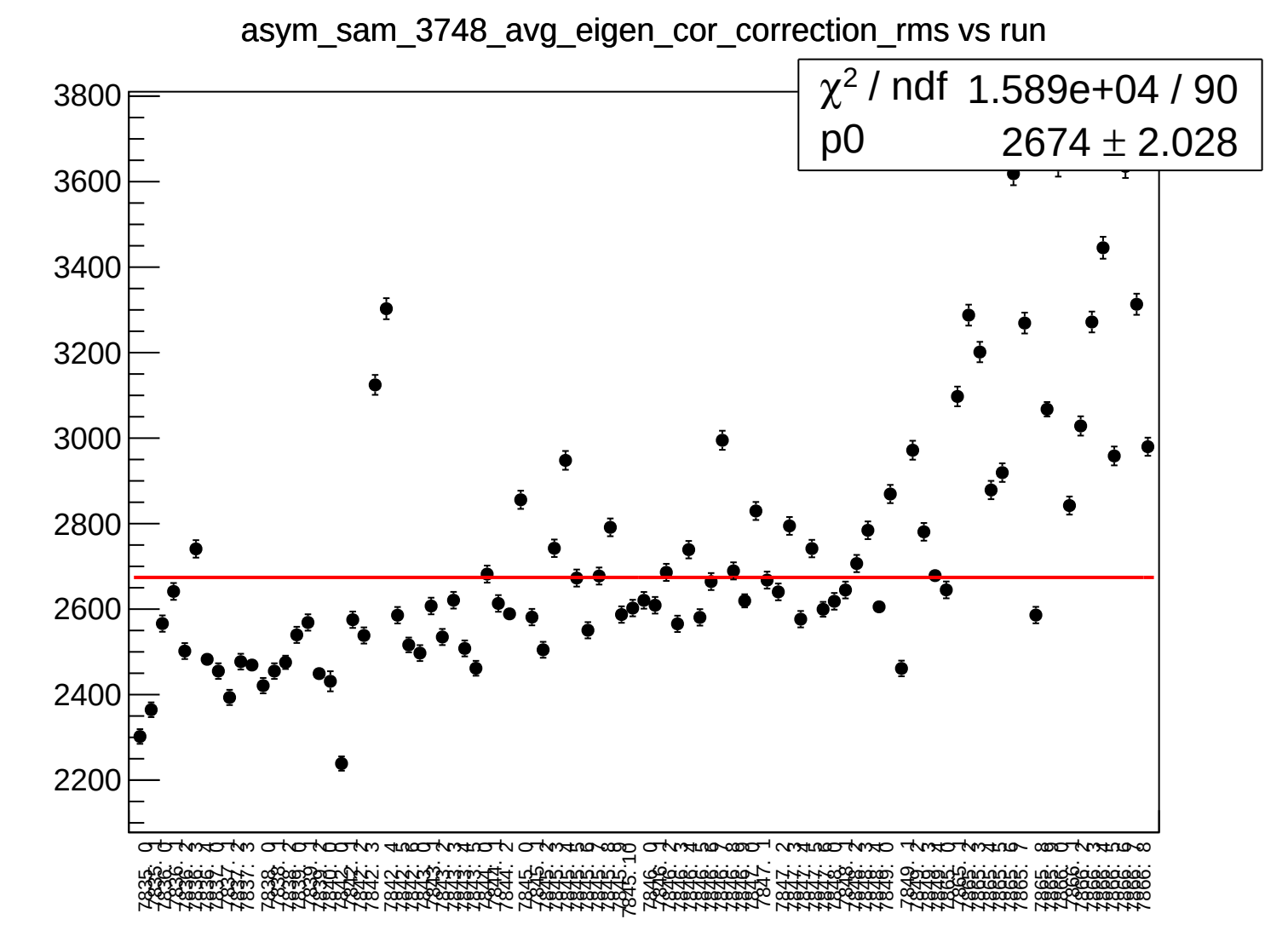

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 80.44 / 90
p0 232.2 ± 264
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 125
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

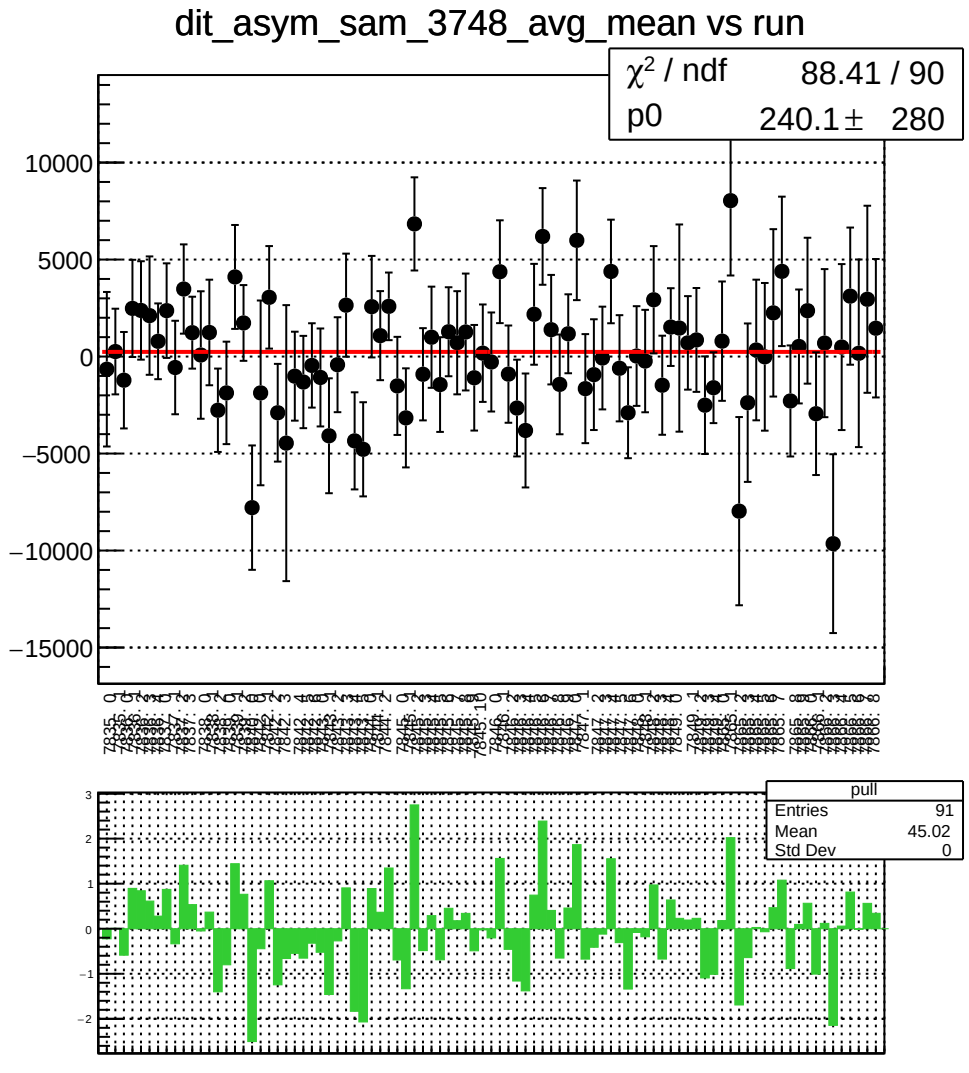

pull1D
Entries 91
Mean −0.0142
Std Dev 0.9401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

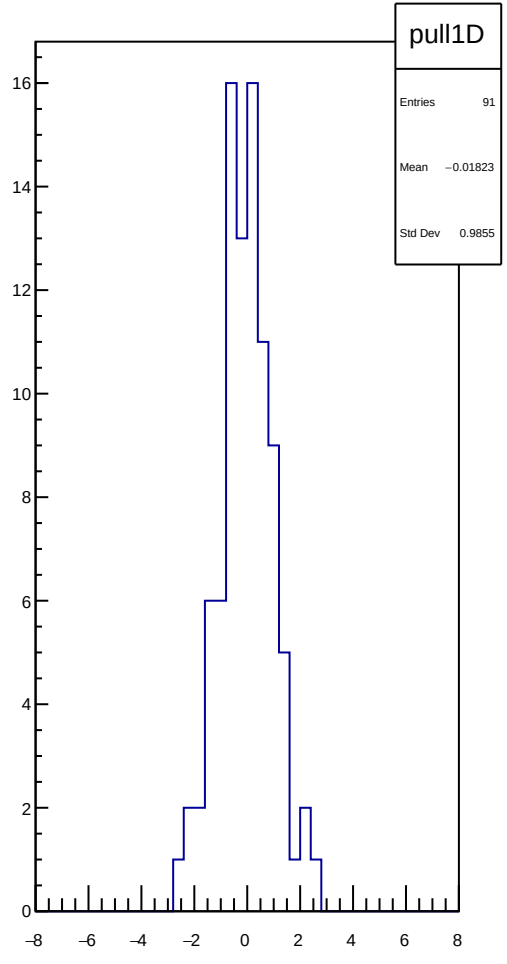

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5.876e+04 / 90
p0 243.1 ± 0.1866
550
500
450
400
350
300
250
200
150

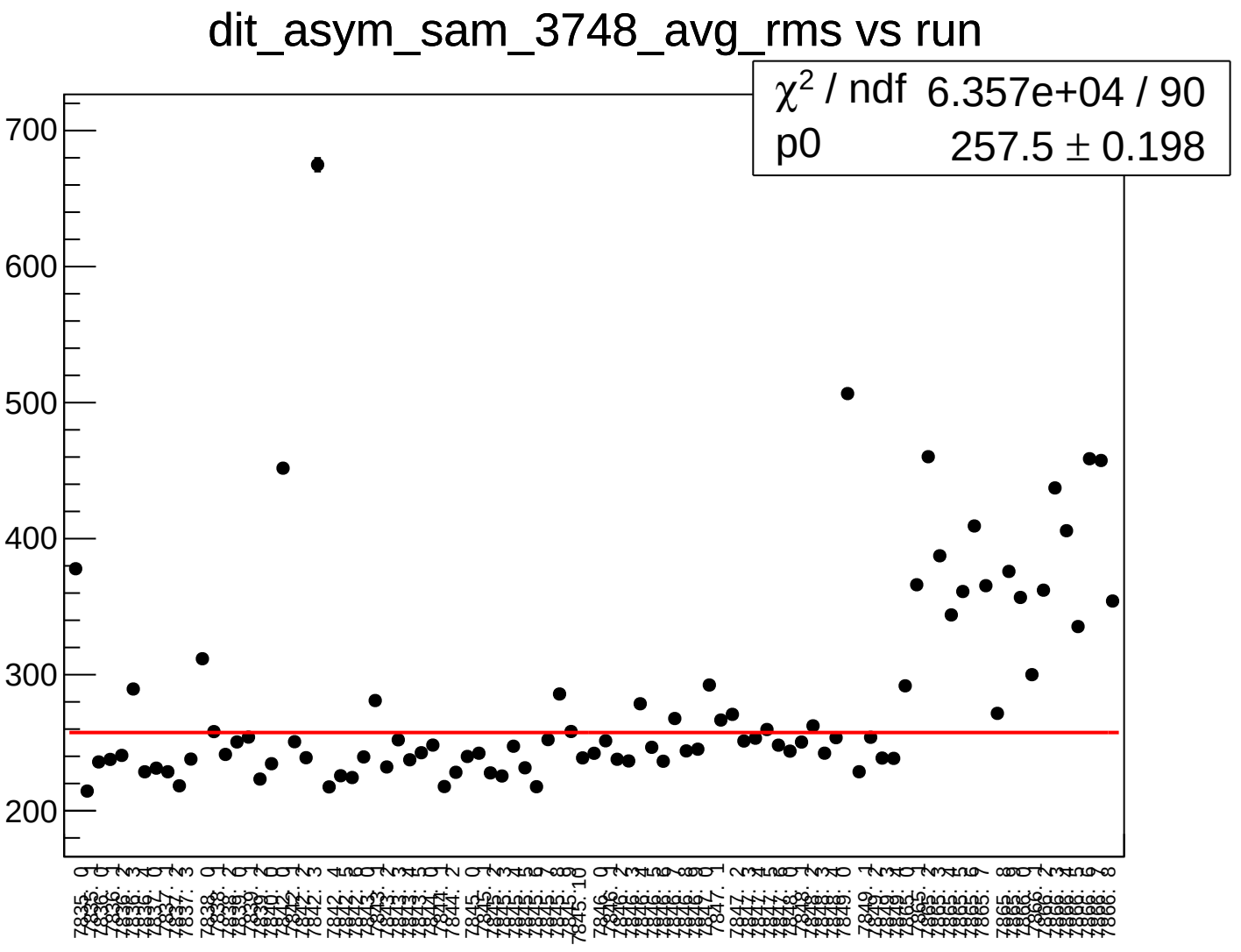

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.24 / 90
p0 −633 ± 2868
pull
Entries 91
Mean 142.6
Std Dev 0

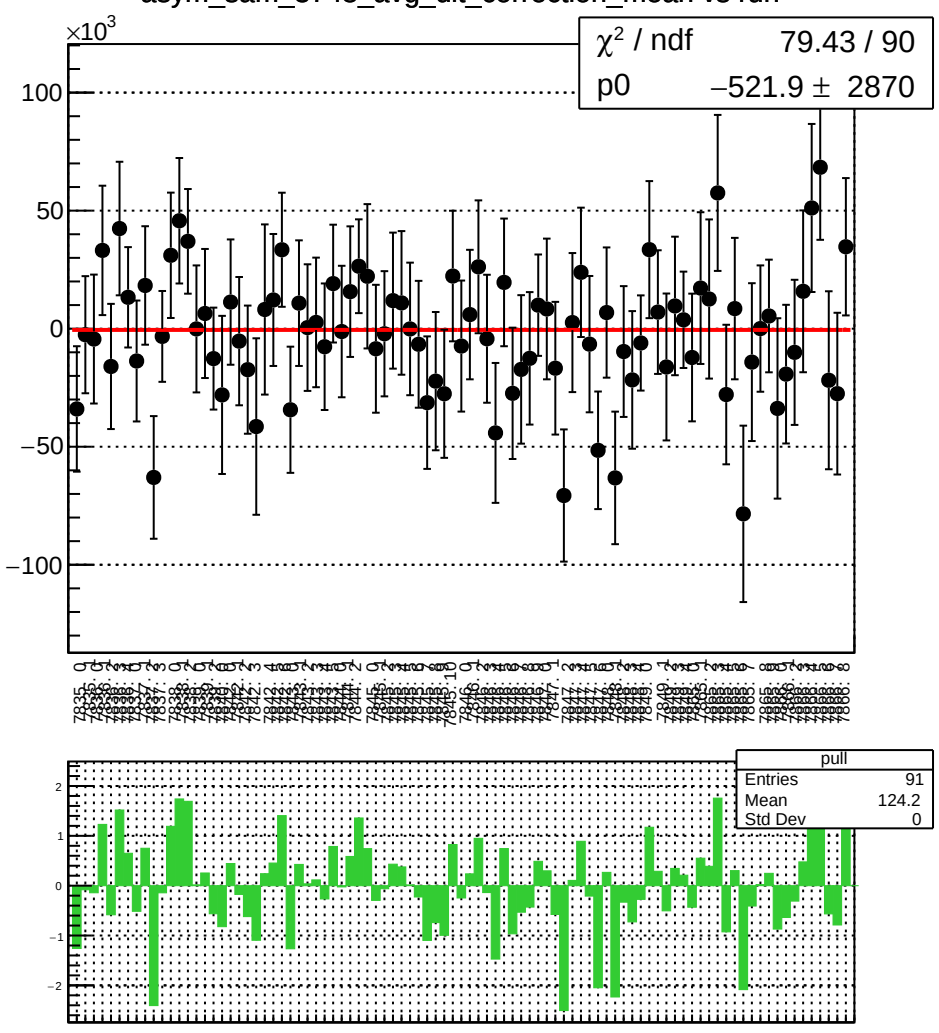

pull1D
Entries 91
Mean −0.01599
Std Dev 0.933

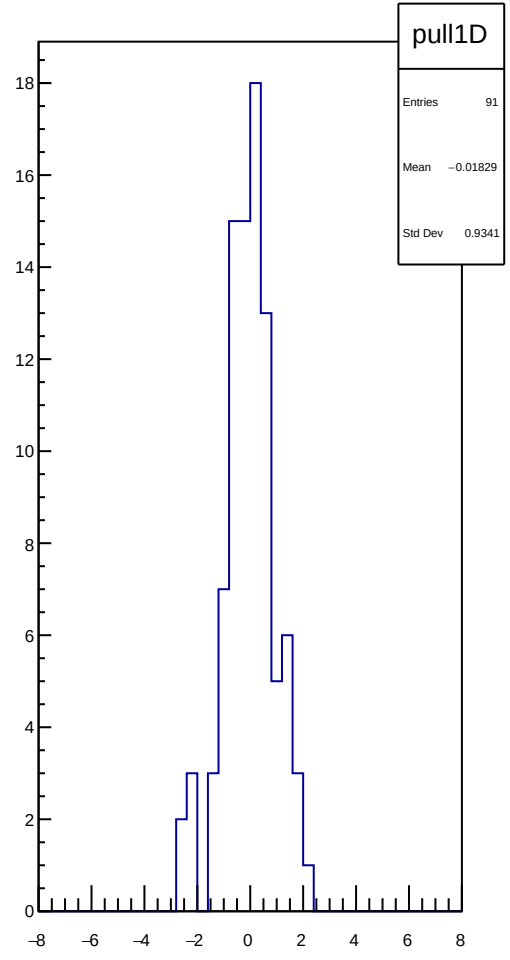

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.589e+04 / 90
p0 2674 ± 2.028
3800
3600
3400
3200
3000
2800
2600
2400
2200

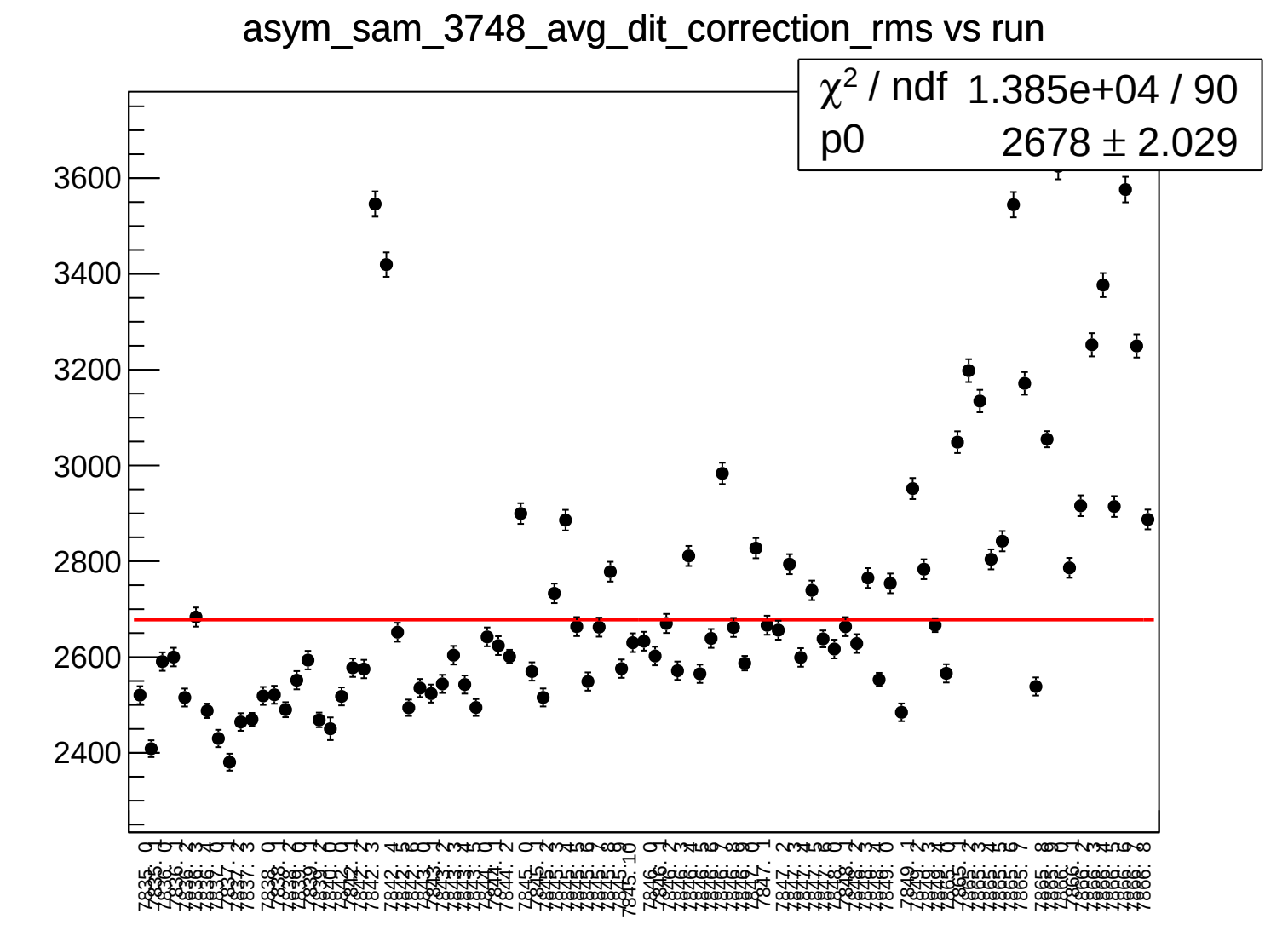

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 88.41 / 90
p0 240.1 ± 280
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 45.02
Std Dev 0
3
2
1
0
−1
−2

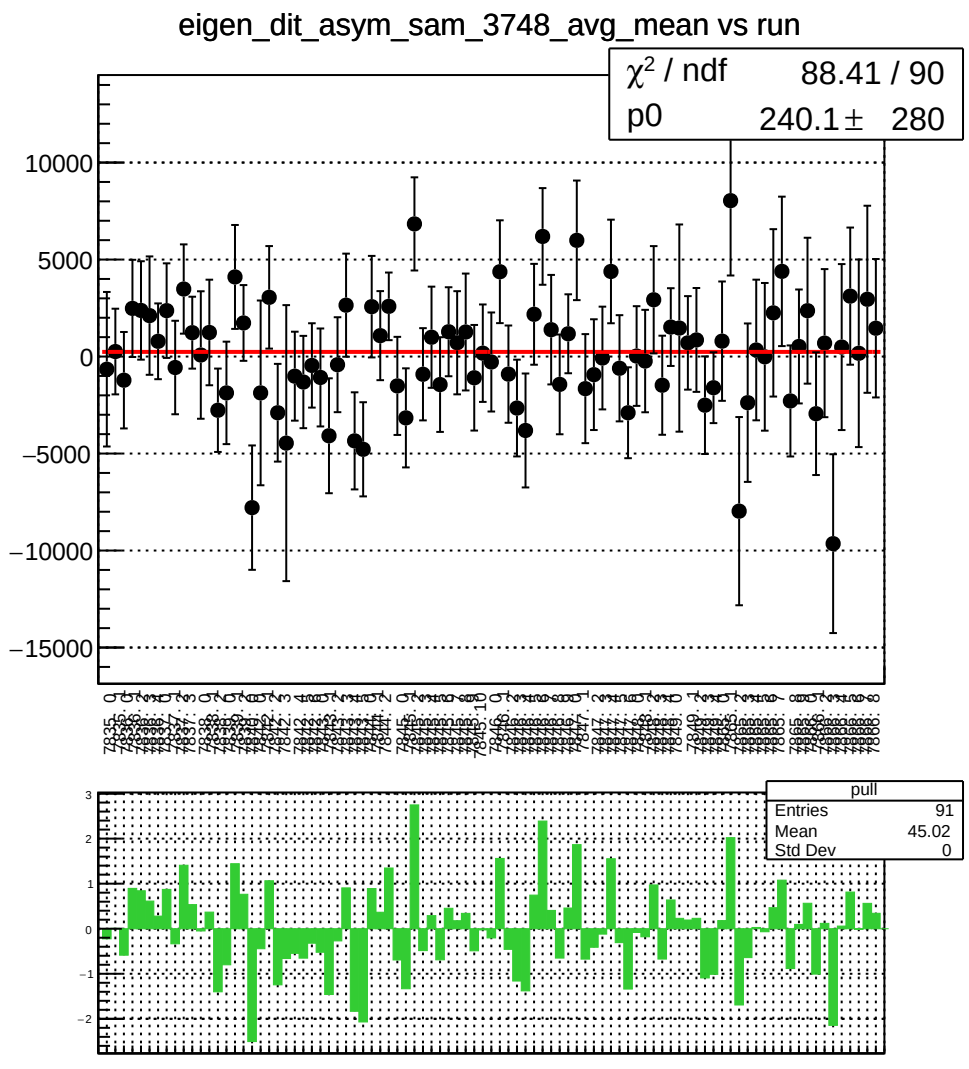

pull1D
Entries 91
Mean −0.01823
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

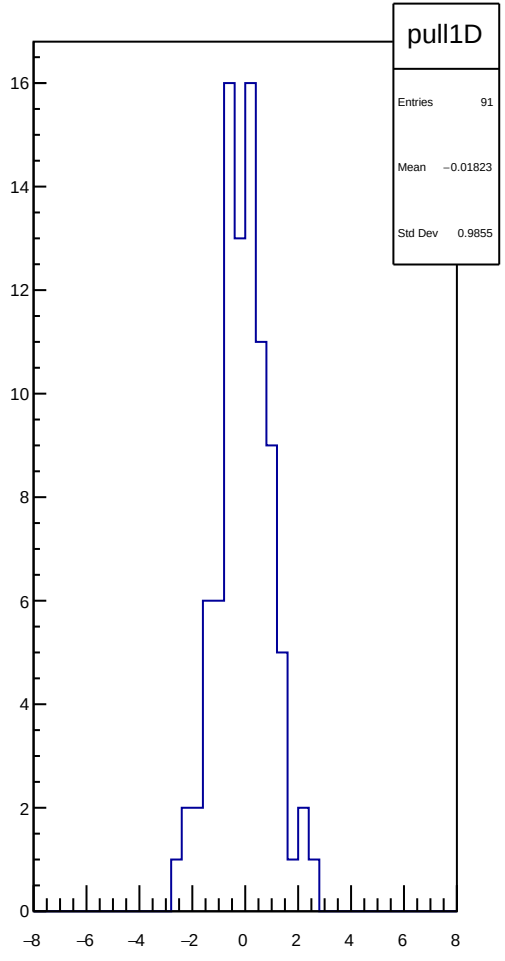

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 6.357e+04 / 90
p0 257.5 ± 0.198
700
600
500
400
300
200

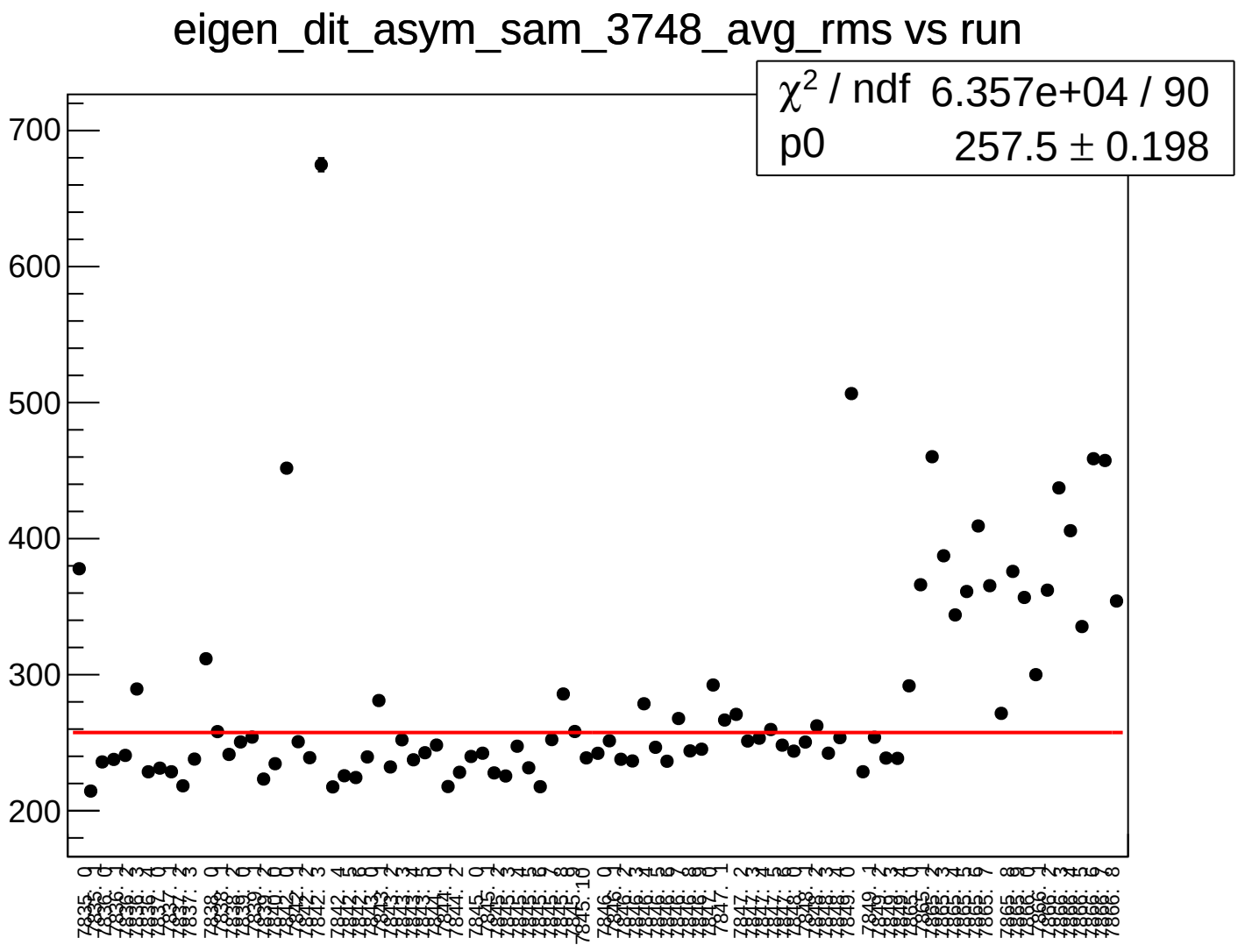

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.43 / 90
p0 −521.9 ± 2870
100
50
0
−50
−100
pull
Entries 91
Mean 124.2
Std Dev 0
2
1
0
−1
−2

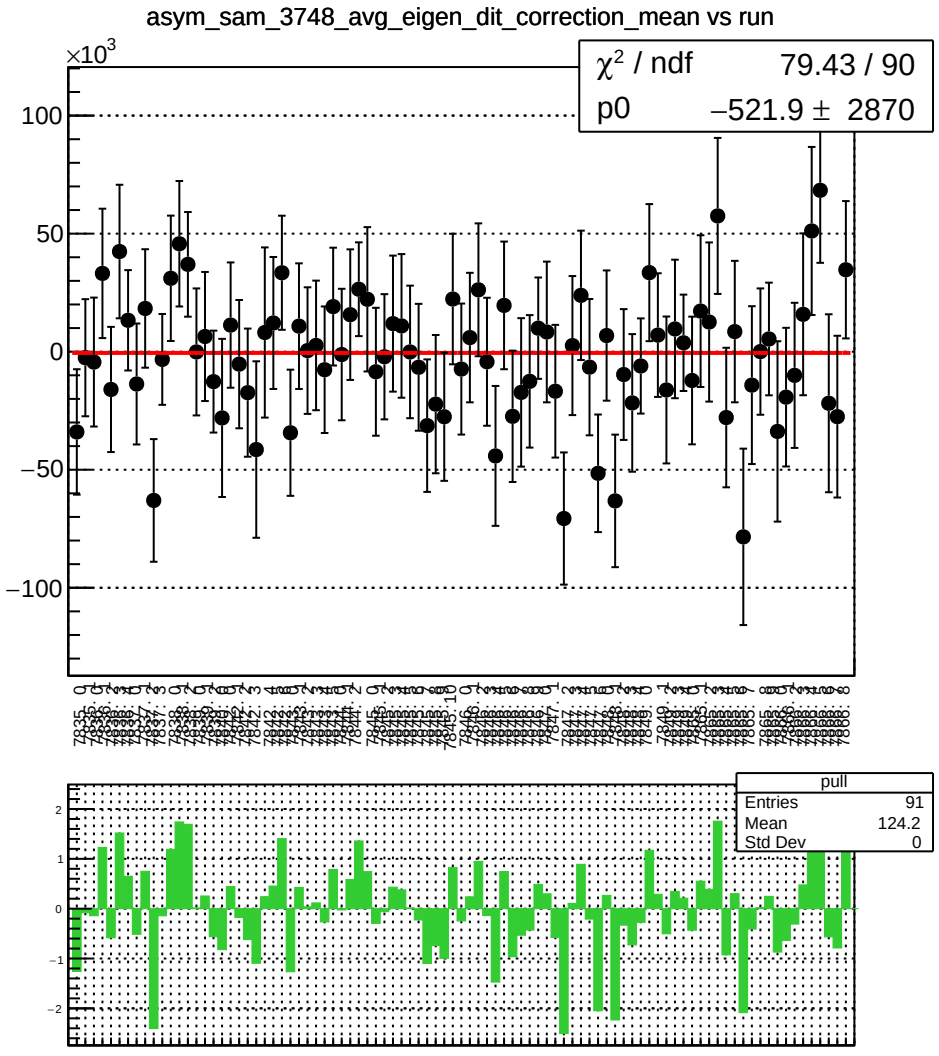

pull1D
Entries 91
Mean −0.01829
Std Dev 0.9341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

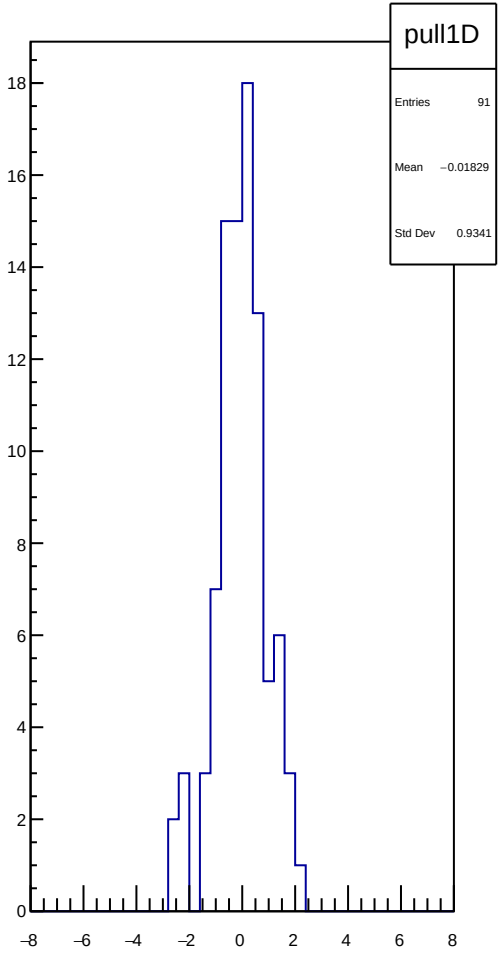

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.385e+04 / 90
p0 2678 ± 2.029
3600
3400
3200
3000
2800
2600
2400

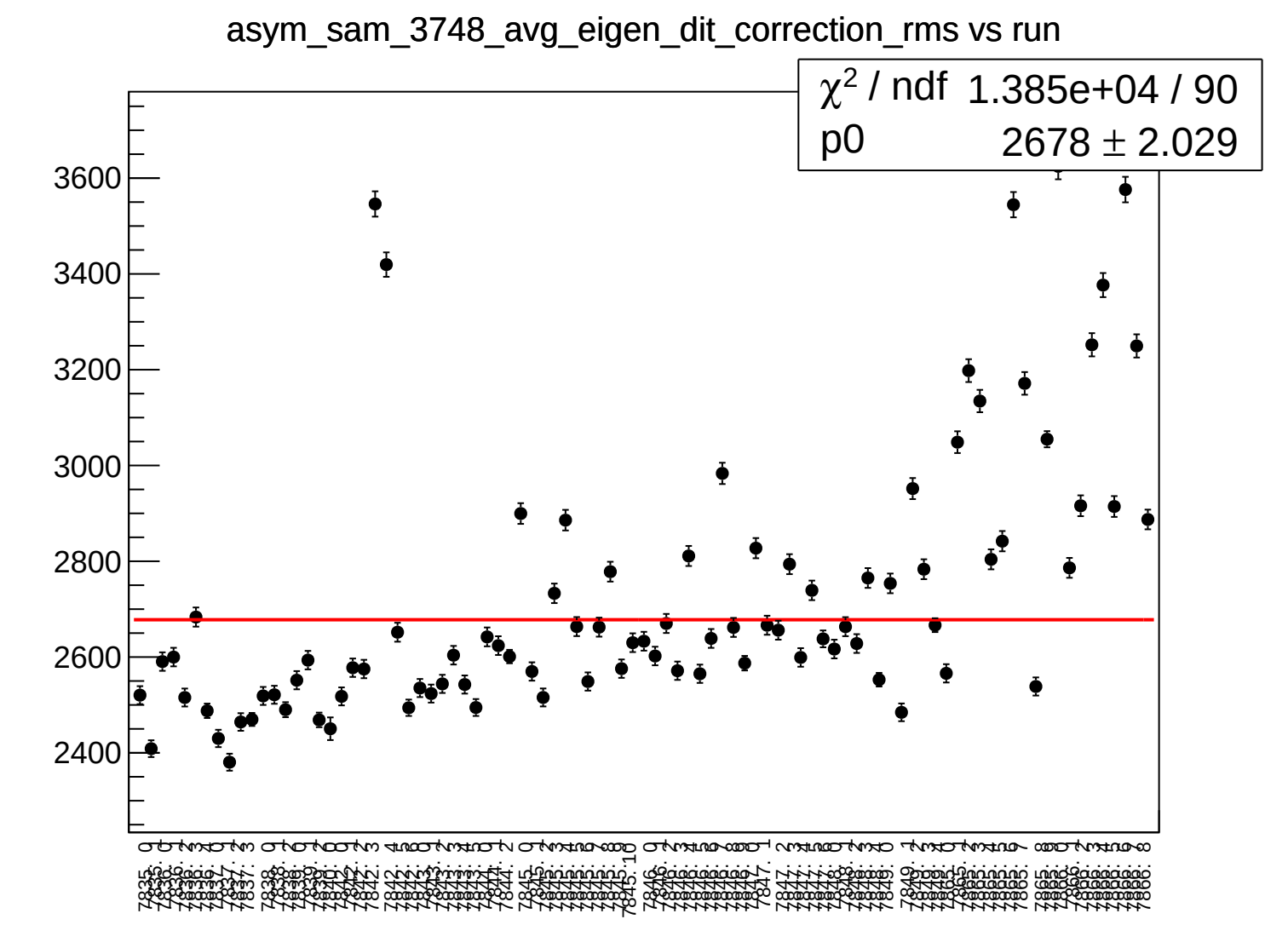

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 88.41 / 90
p0 240.1 ± 280
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 45.02
Std Dev 0
3
2
1
0
−1
−2

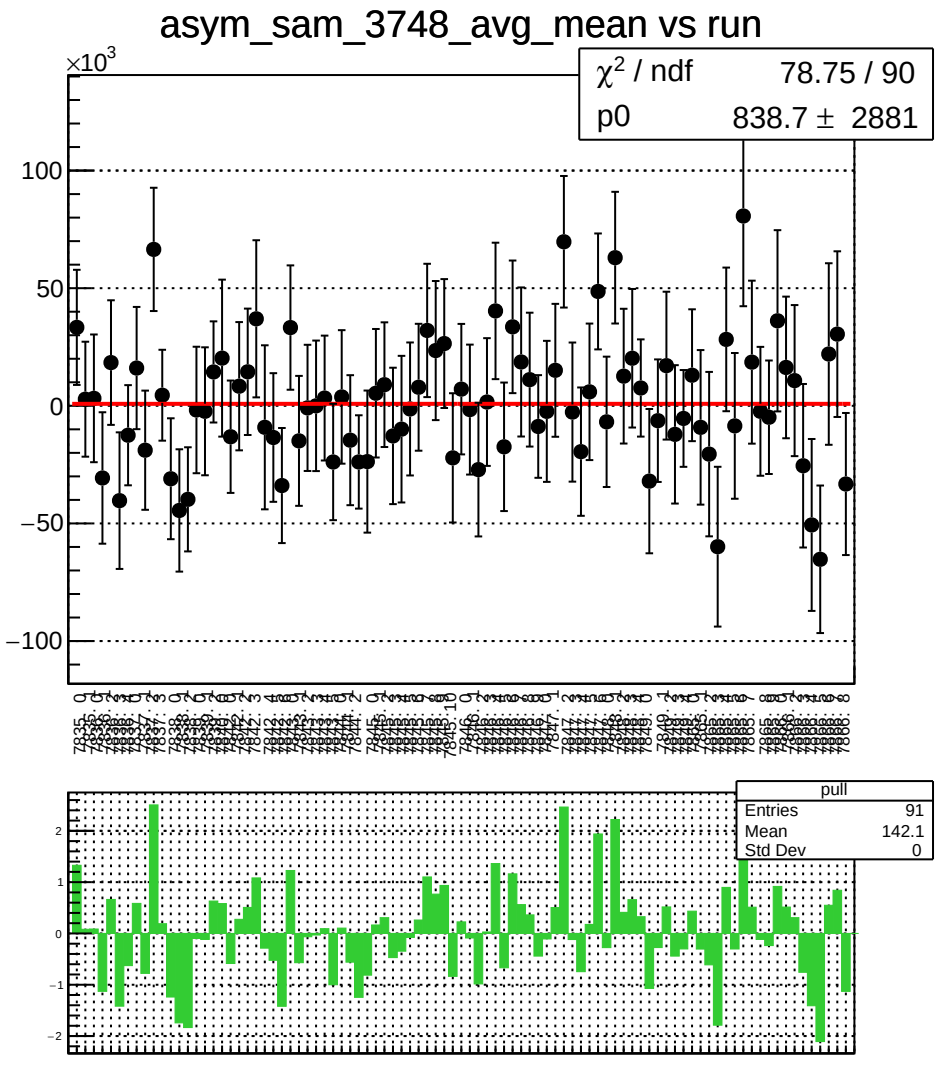

pull1D
Entries 91
Mean −0.01823
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

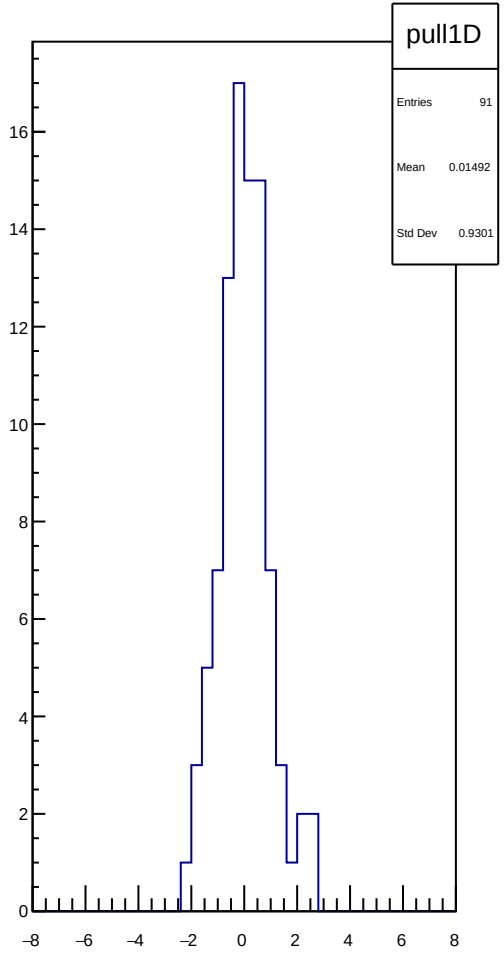

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 6.357e+04 / 90
p0 257.5 ± 0.198
700
600
500
400
300
200

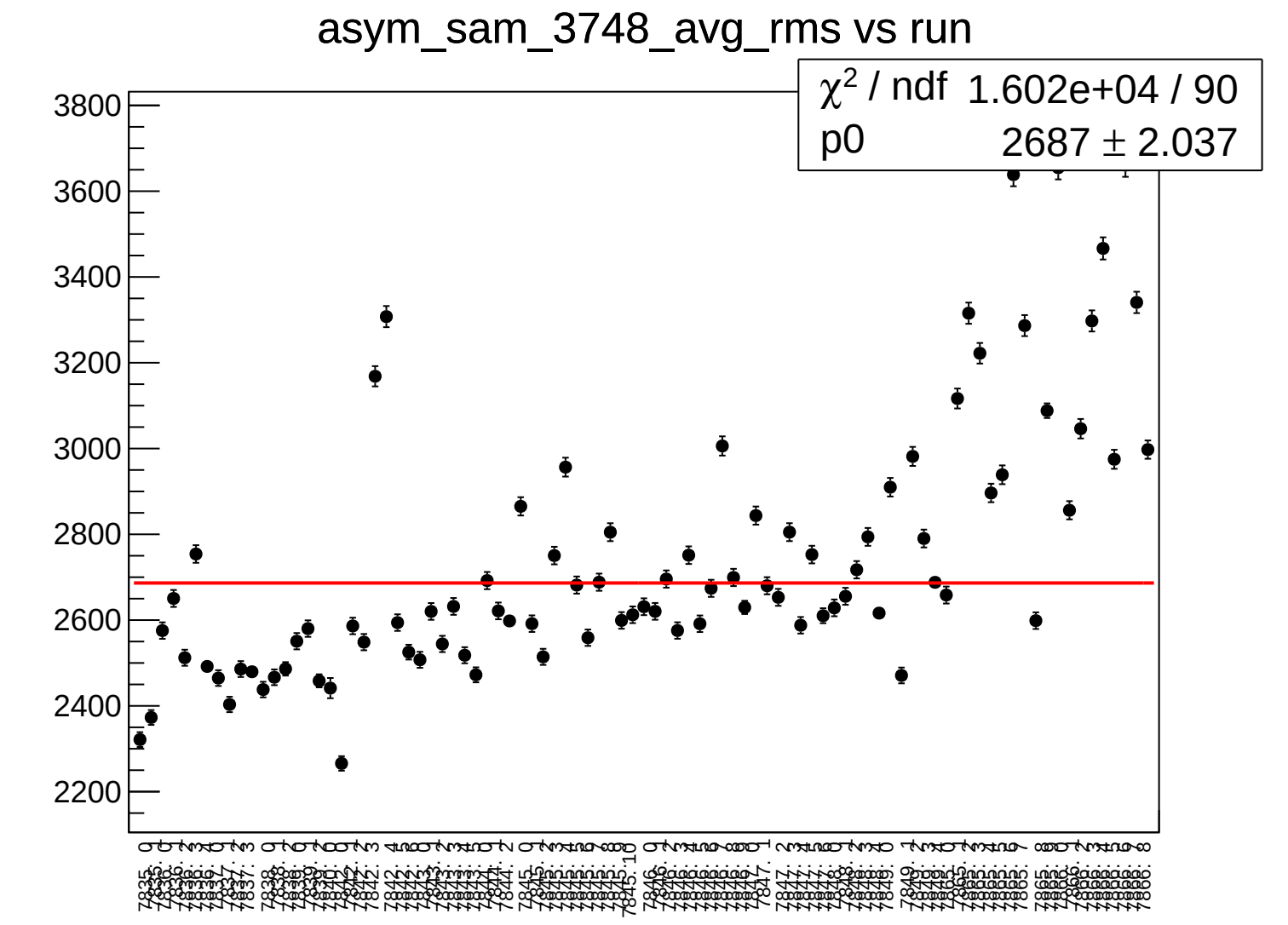

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.43 / 90
p0 −521.9 ± 2870
100
50
0
−50
−100
pull
Entries 91
Mean 124.2
Std Dev 0
2
1
0
−1
−2

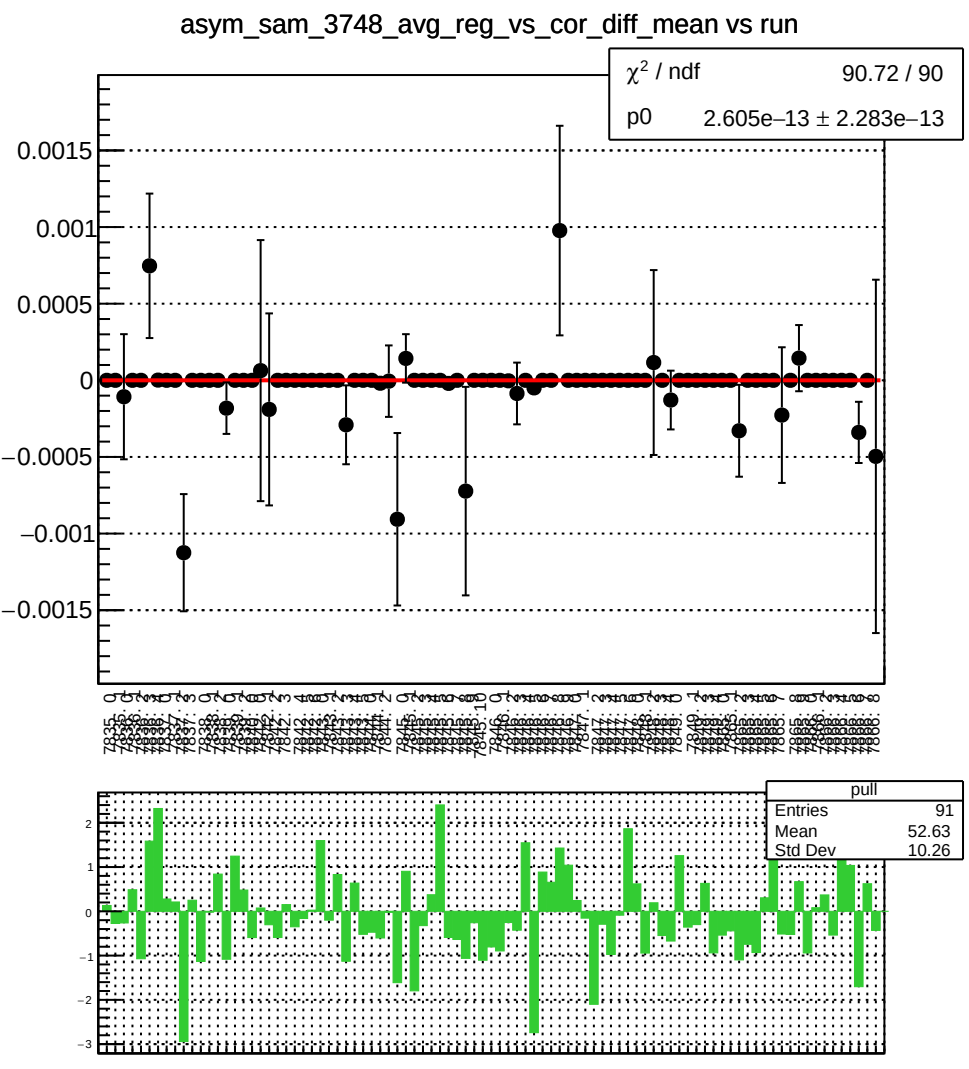

pull1D
Entries 91
Mean −0.01829
Std Dev 0.9341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

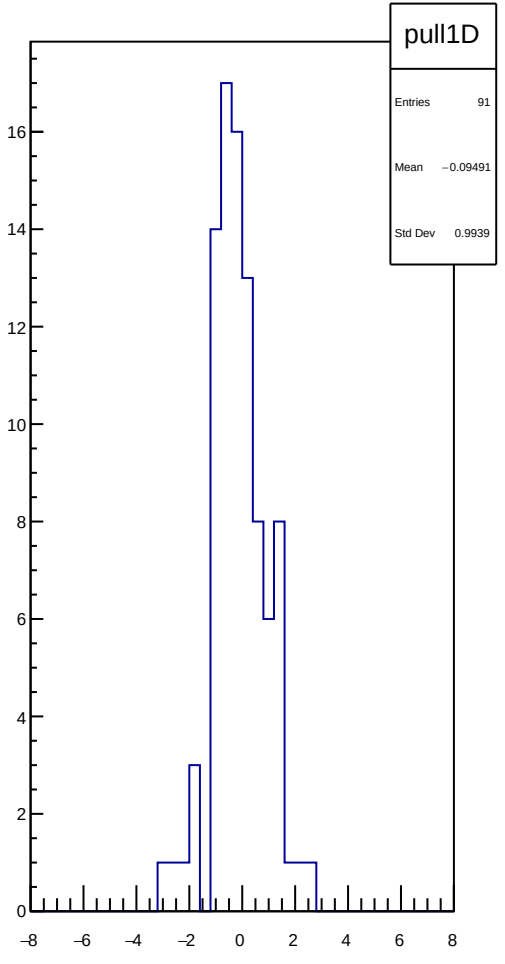

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.385e+04 / 90
p0 2678 ± 2.029
3600
3400
3200
3000
2800
2600
2400

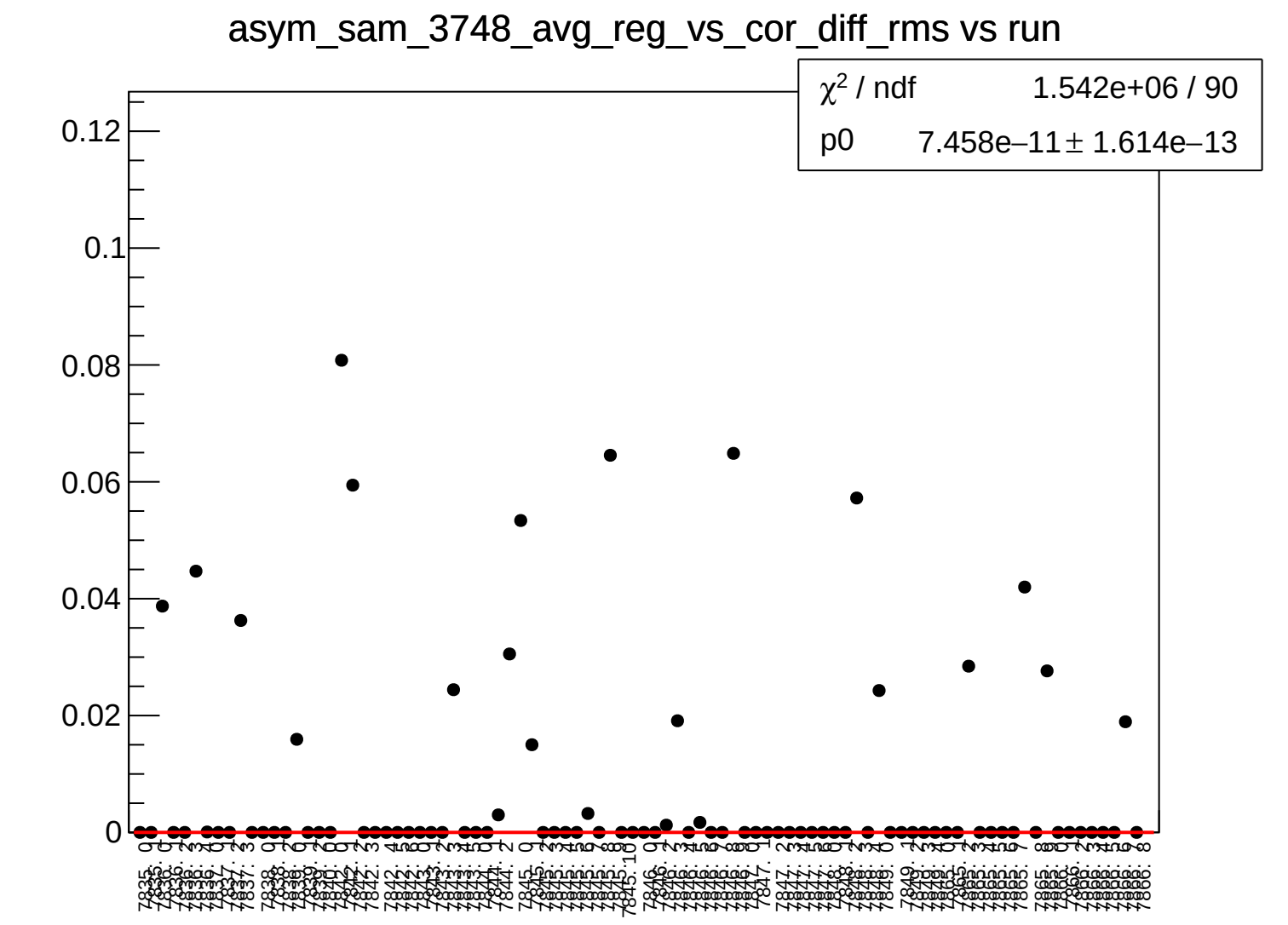

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 78.75 / 90
p0 838.7 ± 2881
100
50
0
−50
−100
pull
Entries 91
Mean 142.1
Std Dev 0
2
1
0
−1
−2

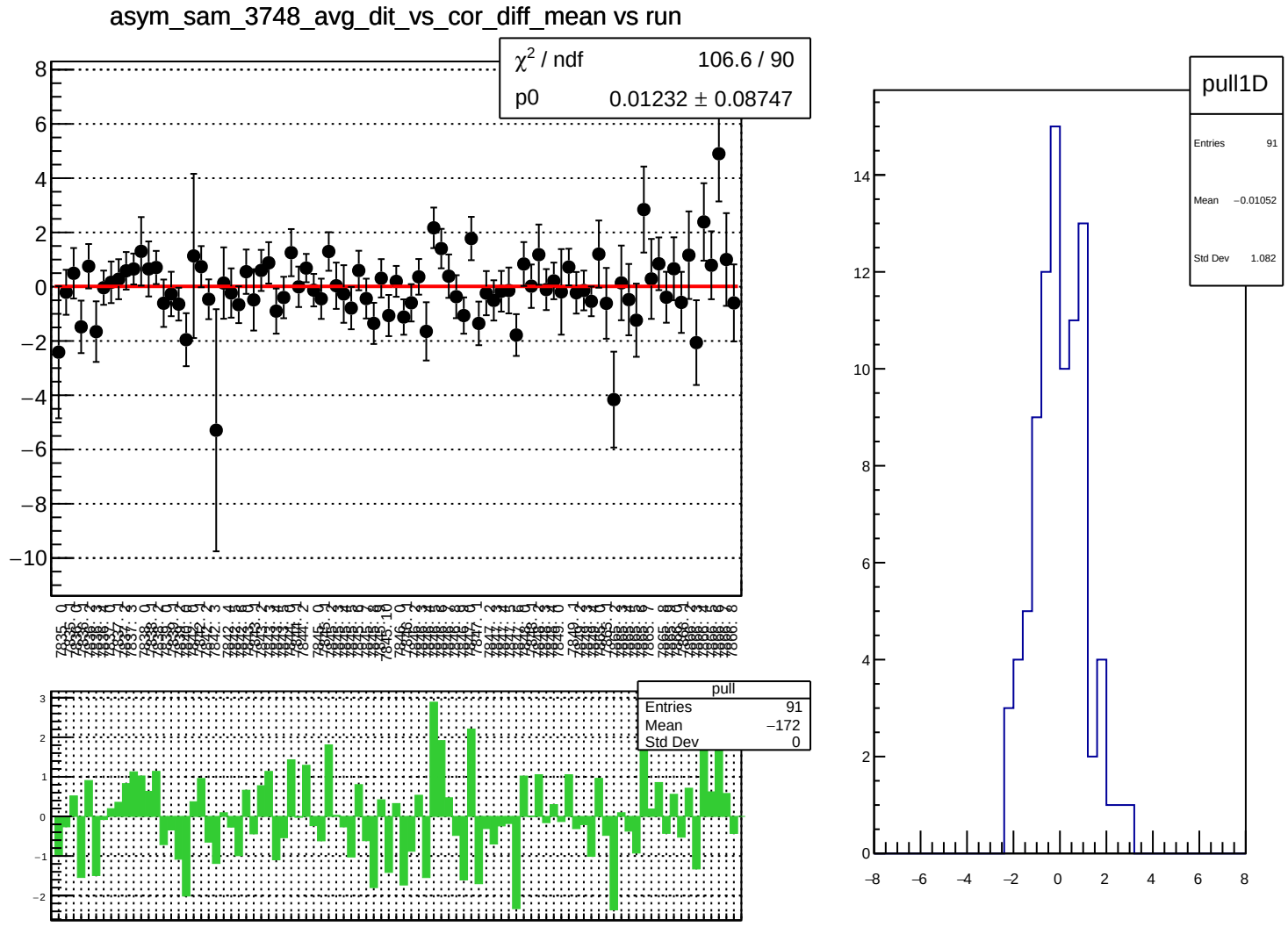

pull1D
Entries 91
Mean 0.01492
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

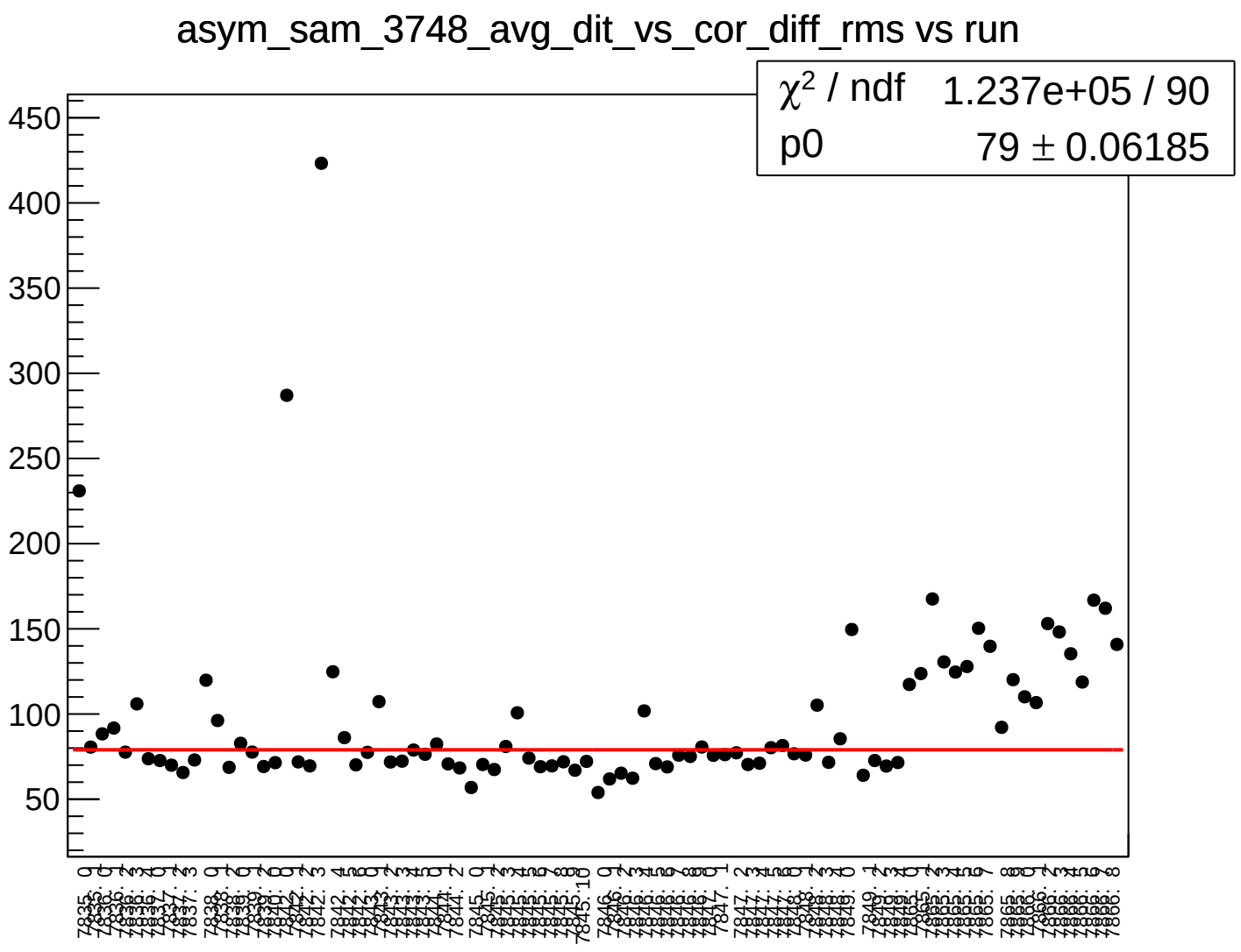

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.602e+04 / 90
p0 2687 ± 2.037
3800
3600
3400
3200
3000
2800
2600
2400
2200

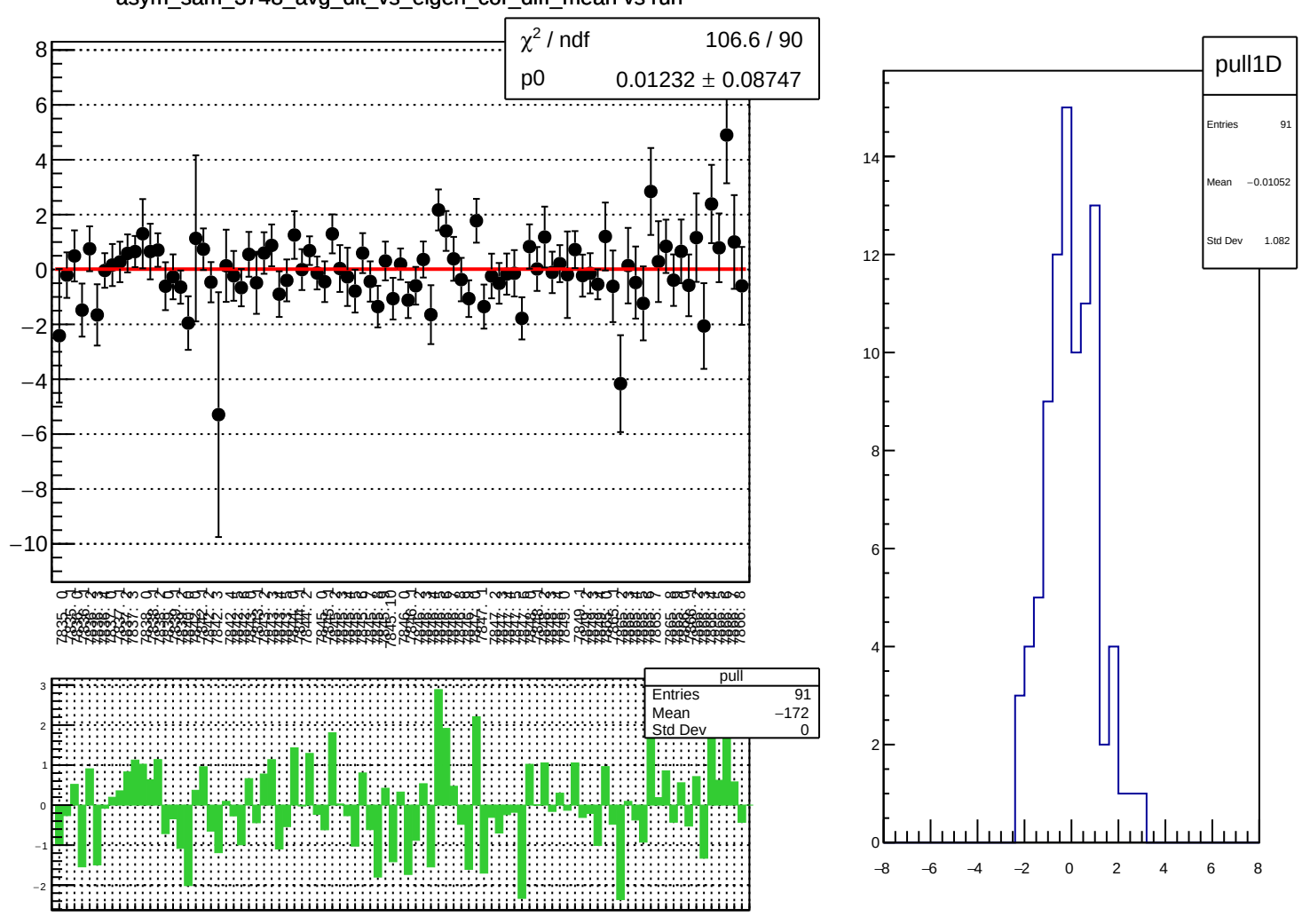

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.72 / 90
p0 2.605e−13 ± 2.283e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 52.63
Std Dev 10.26
2
1
0
−1
−2
−3

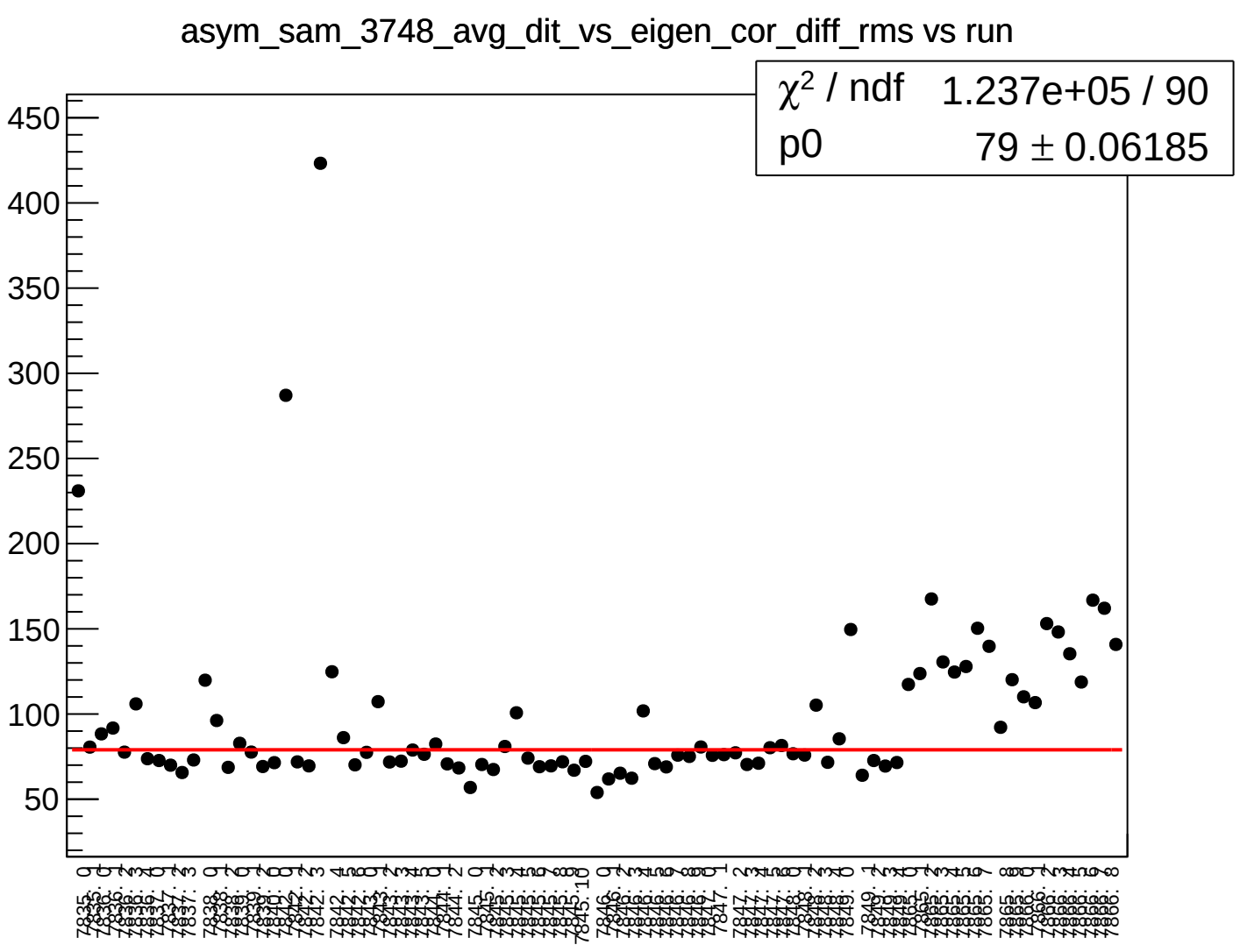

pull1D
Entries 91
Mean −0.09491
Std Dev 0.9939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

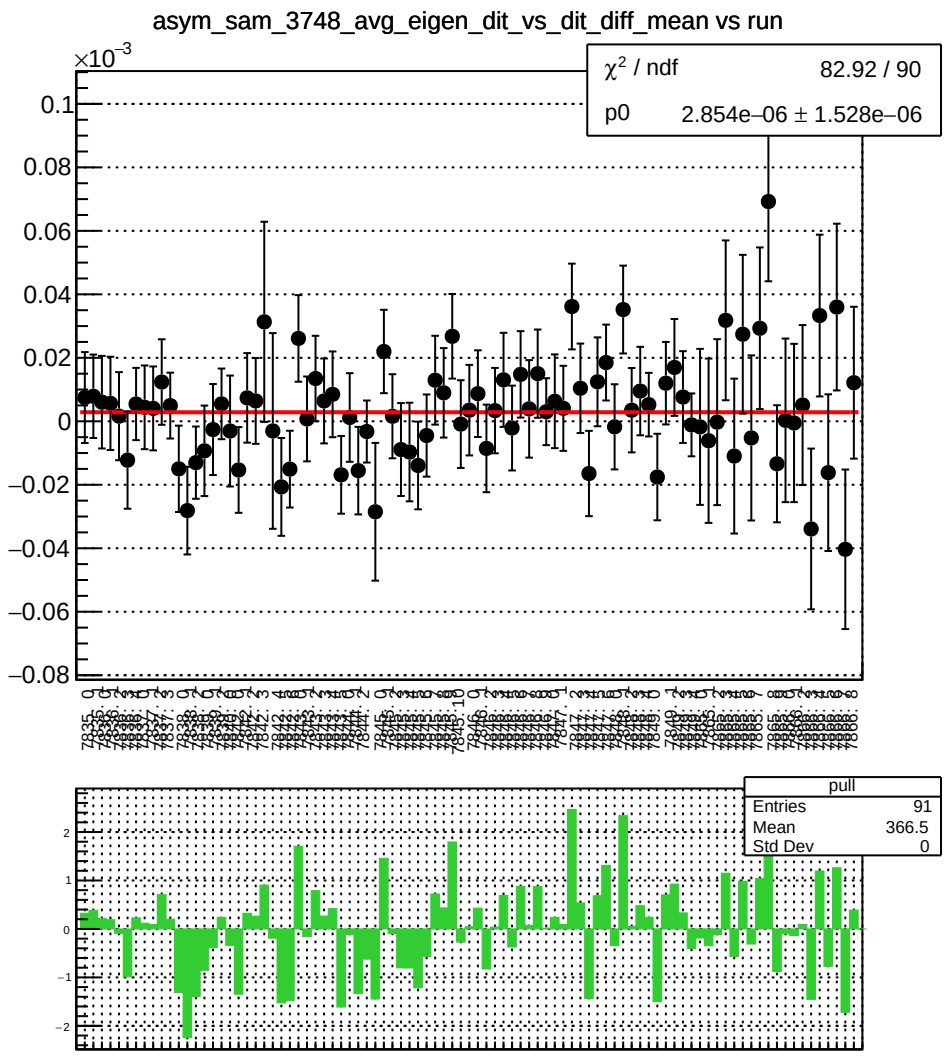

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.542e+06 / 90
p0 7.458e−11 ± 1.614e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

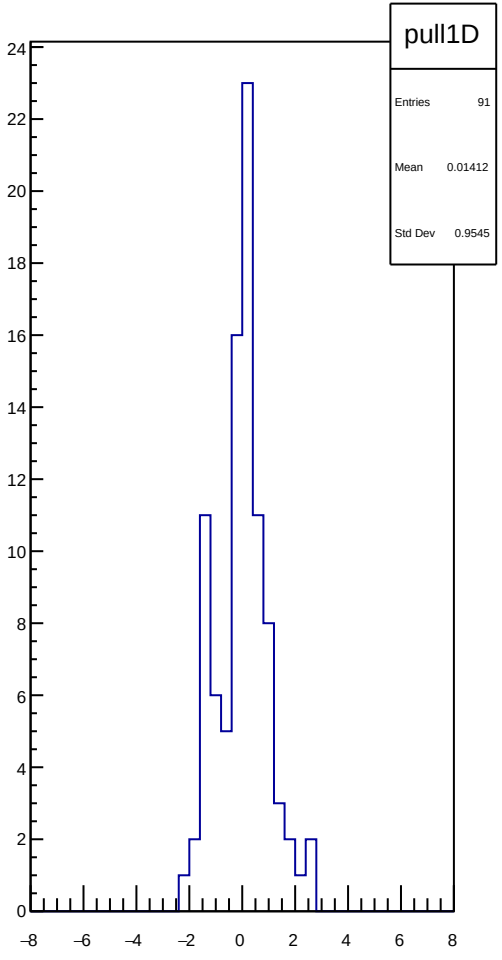

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 90
p0 0.01232 ± 0.08747
pull
Entries 91
Mean −172
Std Dev 0
pull1D
Entries 91
Mean −0.01052
Std Dev 1.082

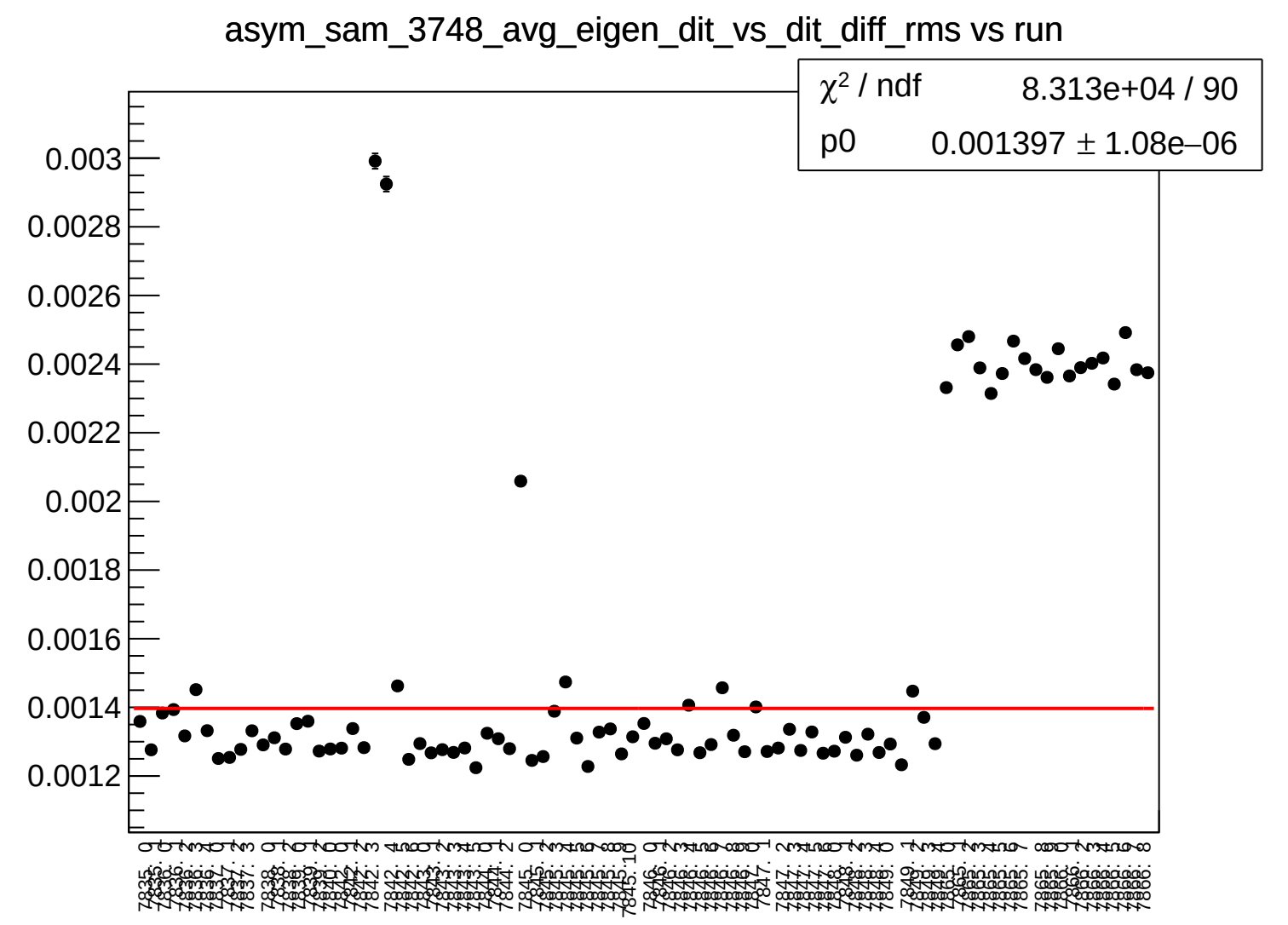

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.237e+05 / 90
p0 79 ± 0.06185
450
400
350
300
250
200
150
100
50

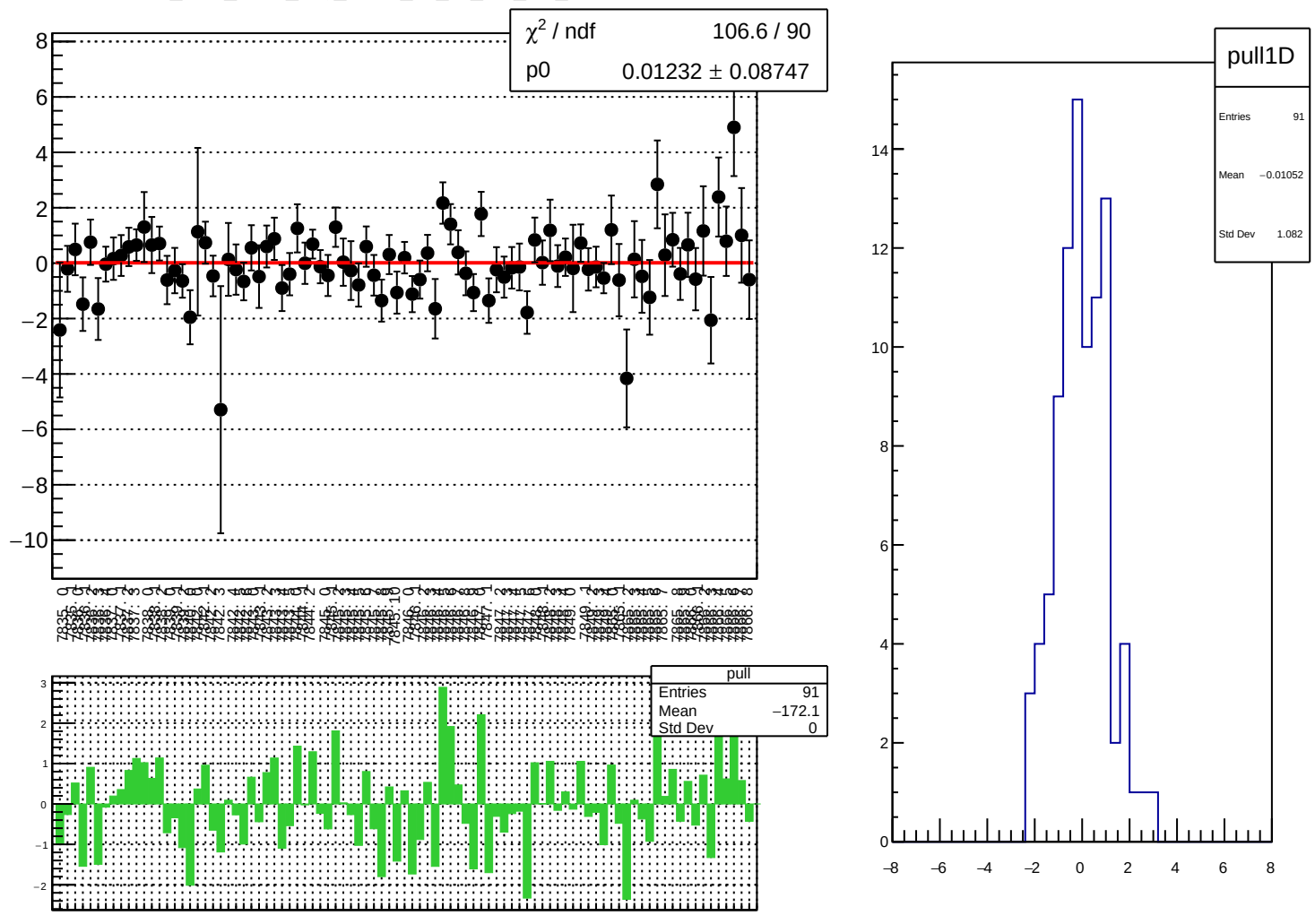

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 90
p0 0.01232 ± 0.08747
pull
Entries 91
Mean −172
Std Dev 0
pull1D
Entries 91
Mean −0.01052
Std Dev 1.082

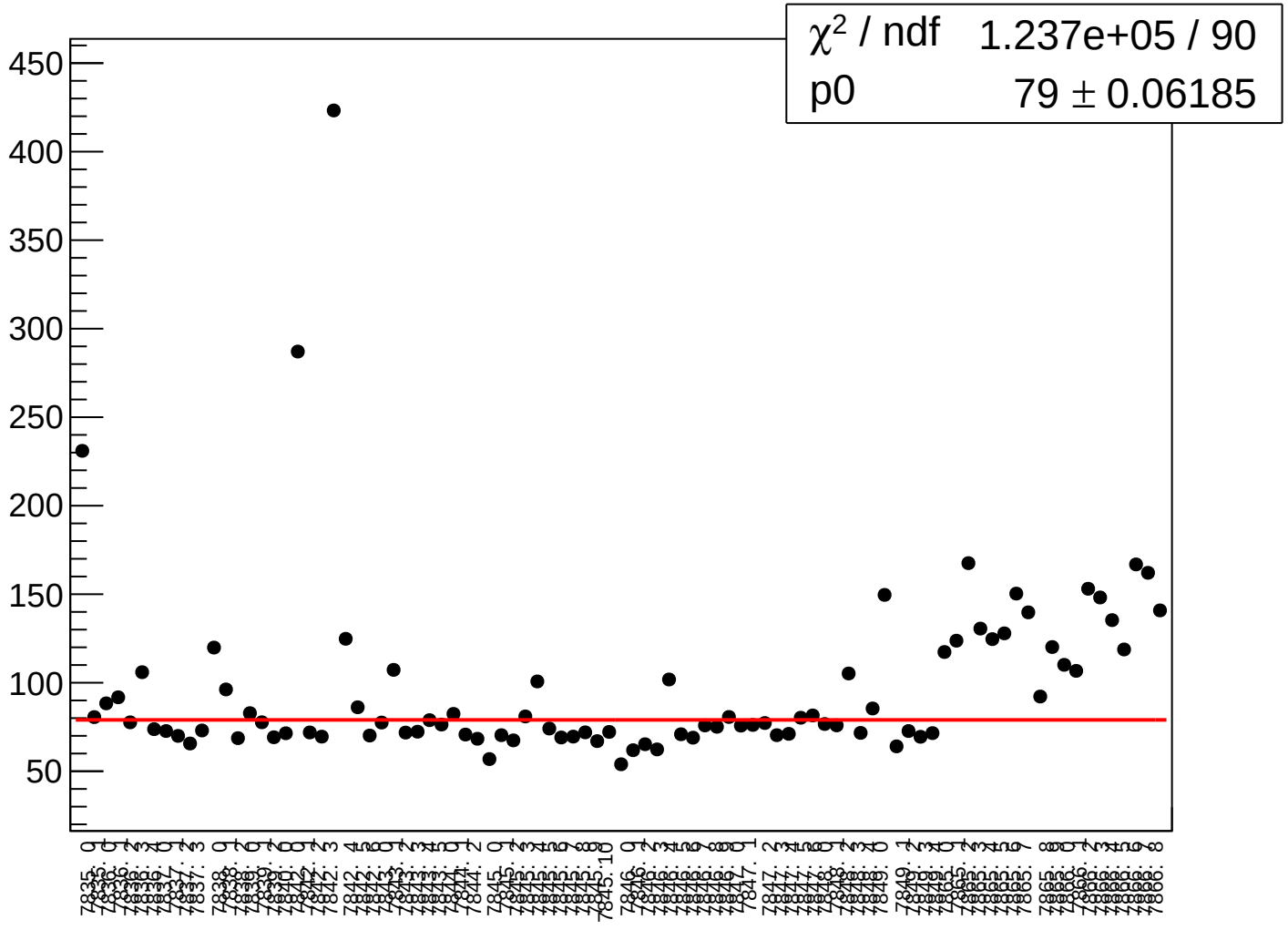

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.237e+05 / 90
p0 79 ± 0.06185
450
400
350
300
250
200
150
100
50

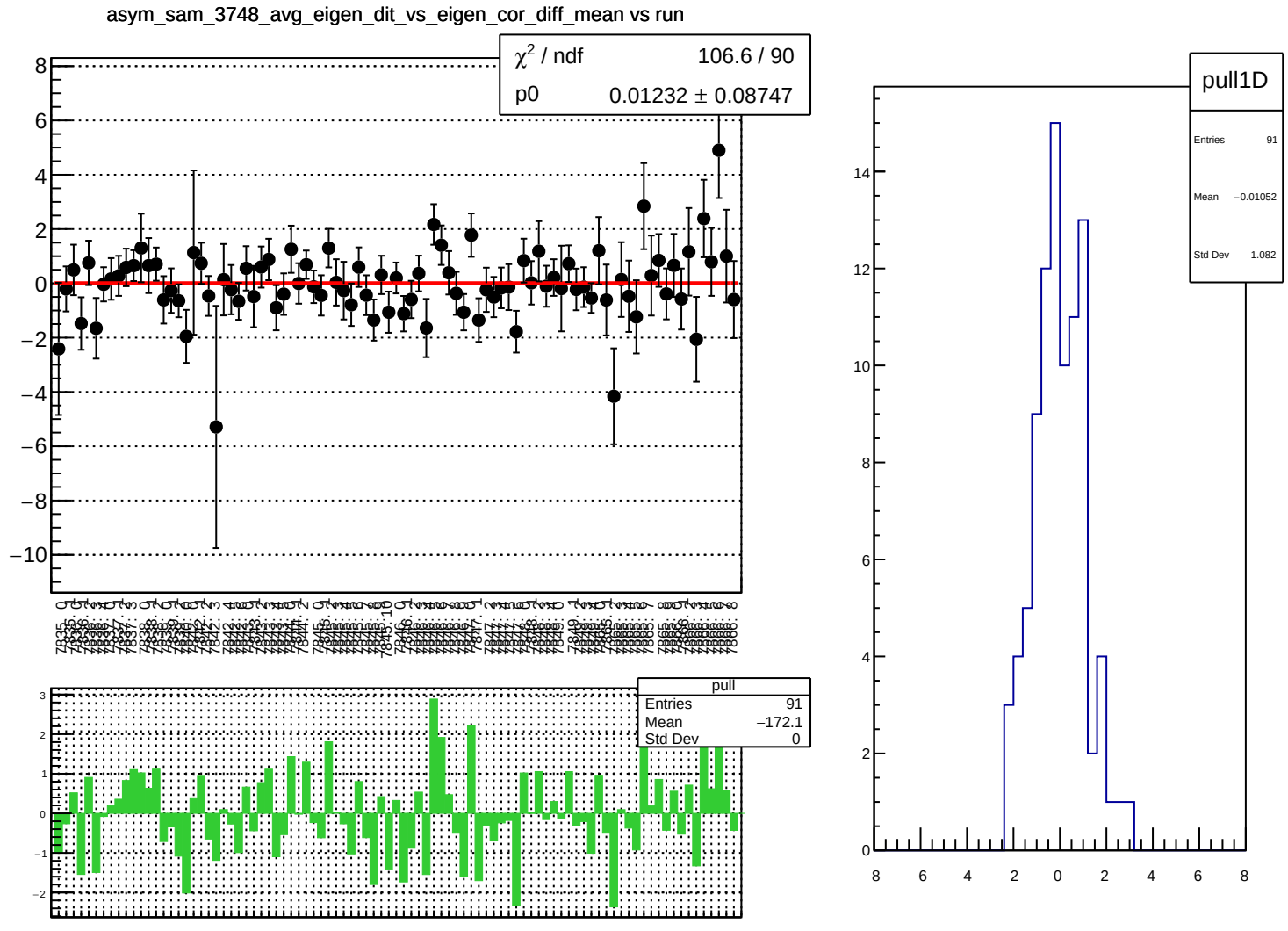

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.92 / 90
p0 2.854e−06 ± 1.528e−06
pull
Entries 91
Mean 366.5
Std Dev 0

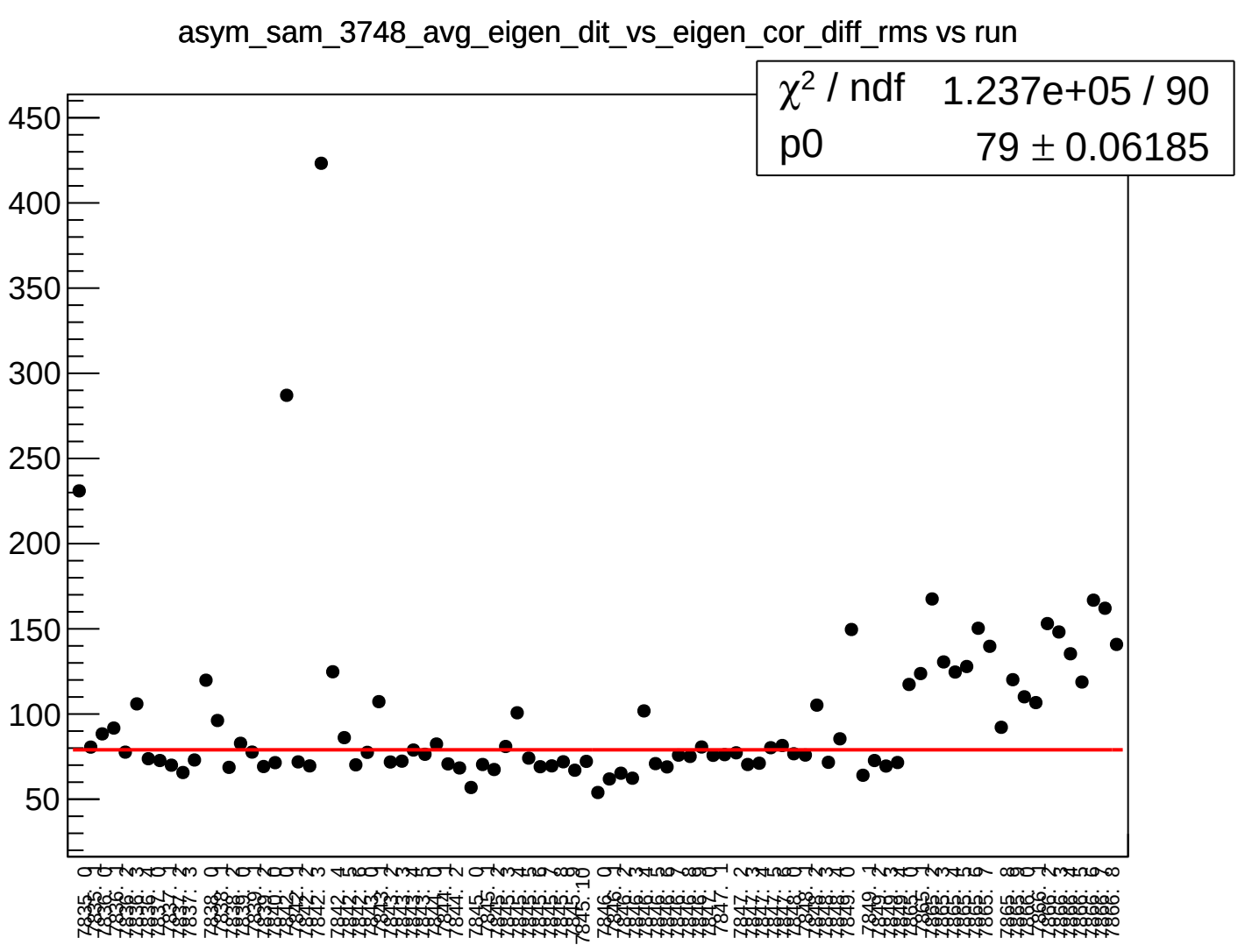

pull1D
Entries 91
Mean 0.01412
Std Dev 0.9545

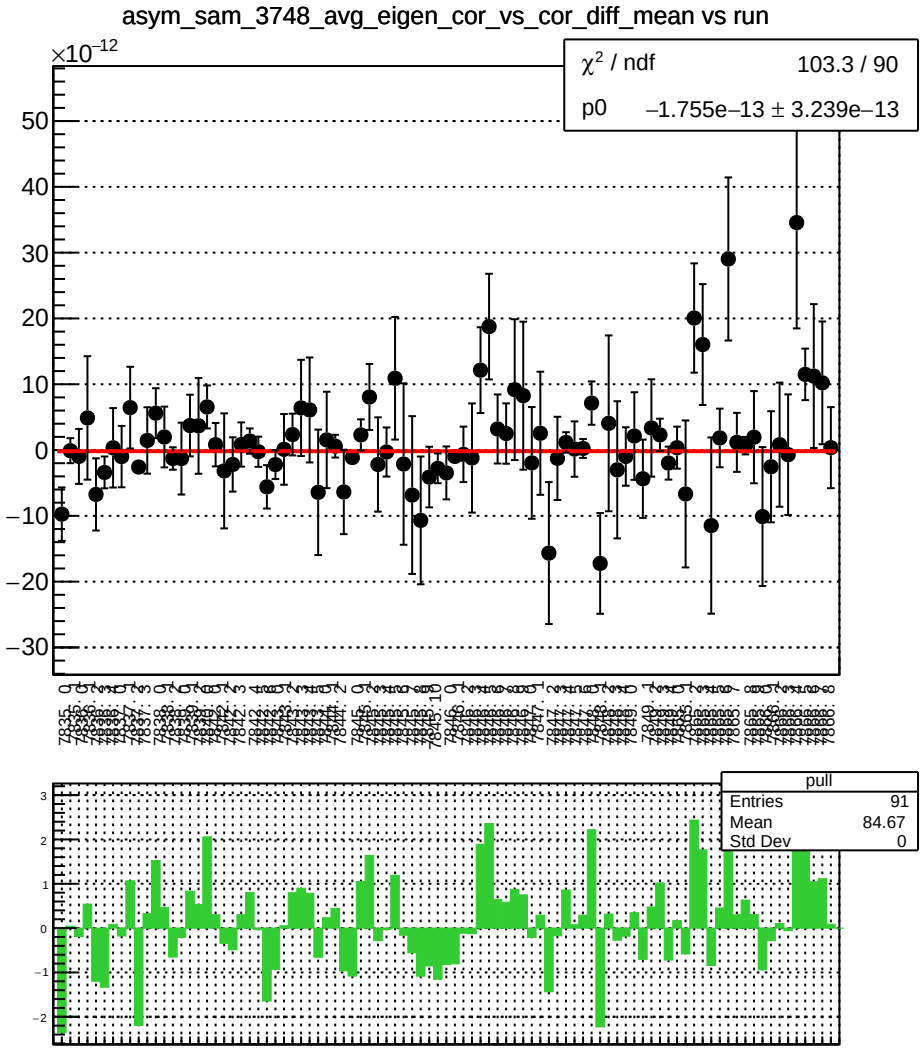

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.313e+04 / 90
p0 0.001397 ± 1.08e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

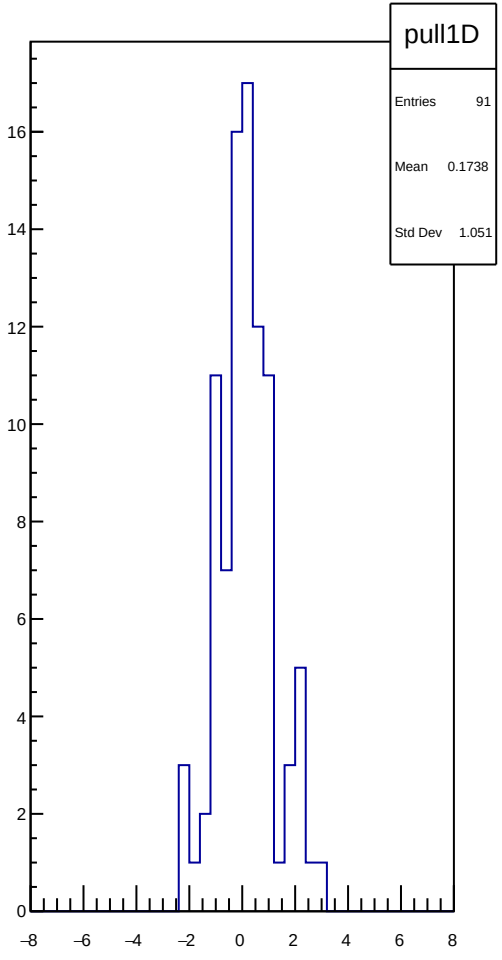

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 90
p0 0.01232 ± 0.08747
pull
Entries 91
Mean −172.1
Std Dev 0
pull1D
Entries 91
Mean −0.01052
Std Dev 1.082

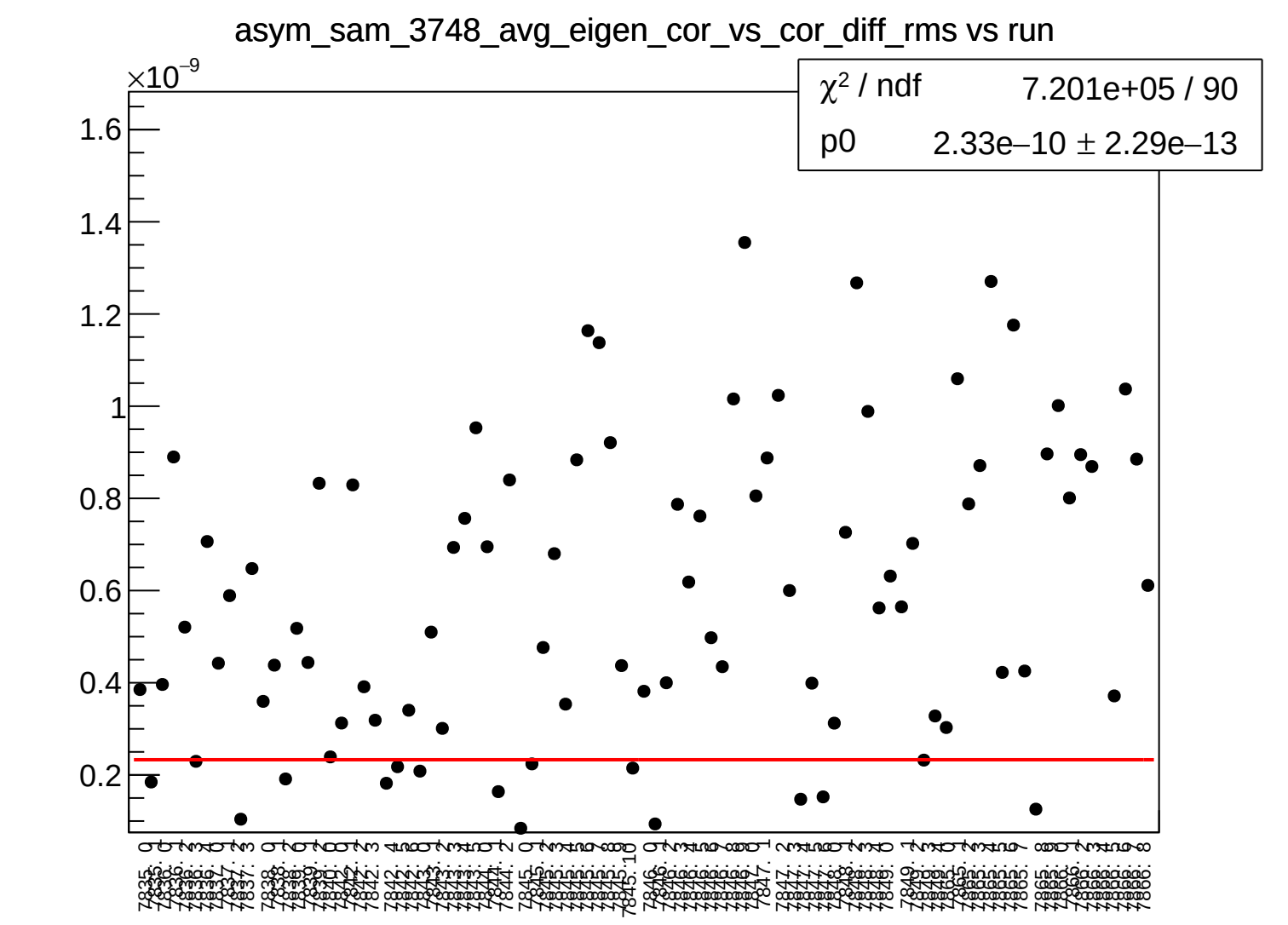

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.237e+05 / 90
p0 79 ± 0.06185
450
400
350
300
250
200
150
100
50

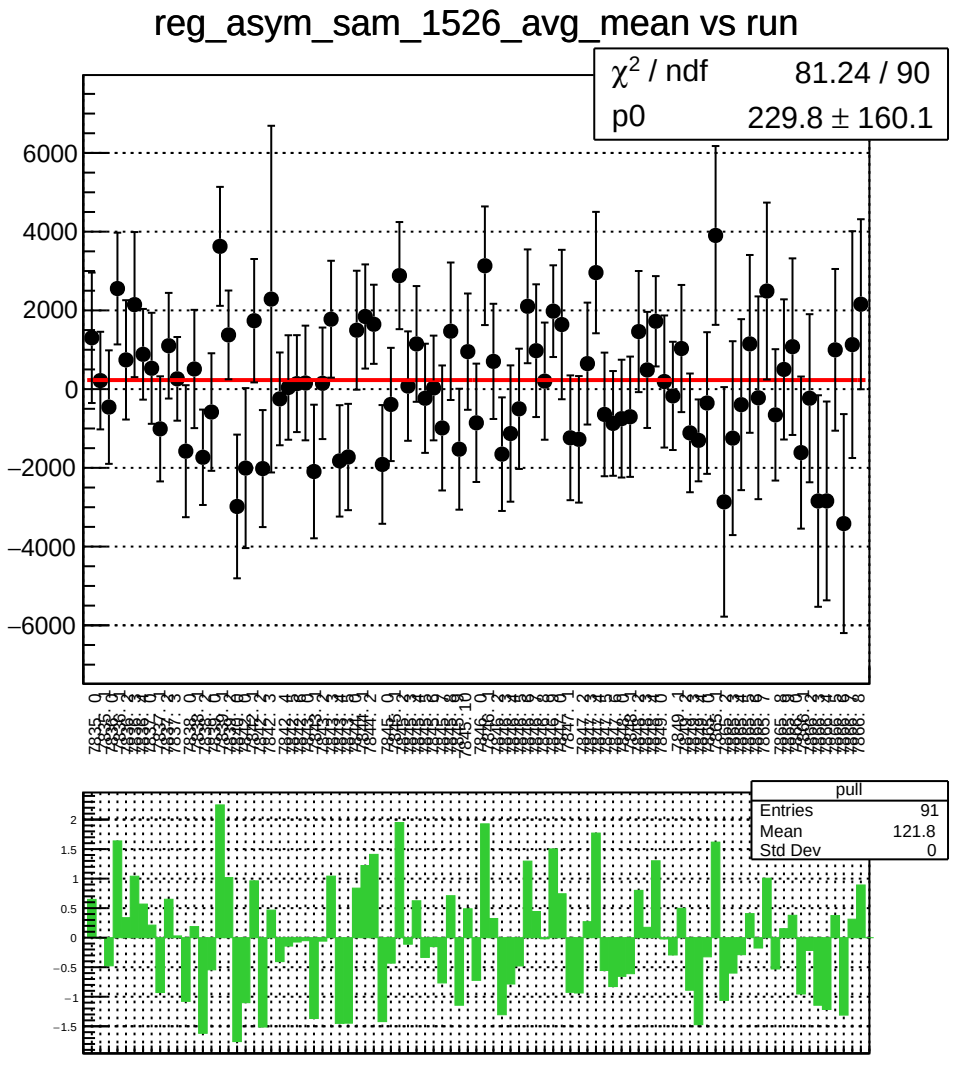

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 90
p0 0.01232 ± 0.08747
pull
Entries 91
Mean −172.1
Std Dev 0
pull1D
Entries 91
Mean −0.01052
Std Dev 1.082

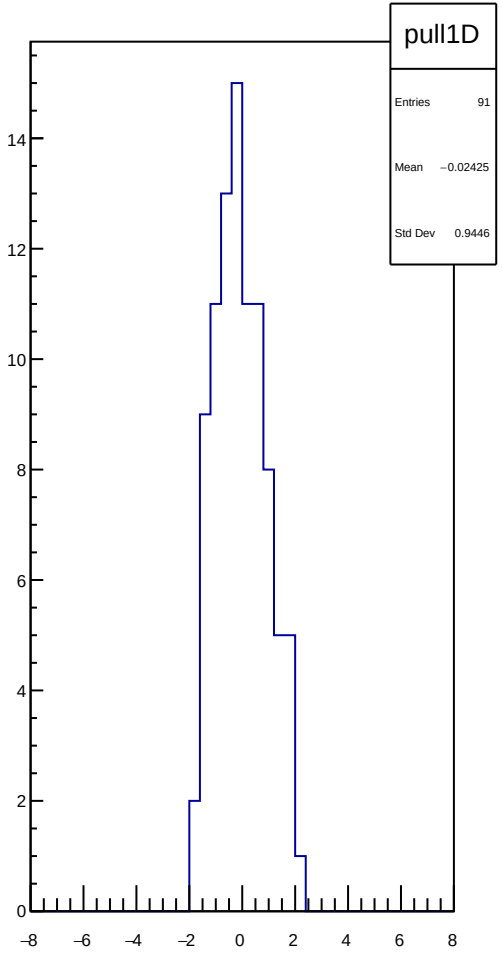

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.237e+05 / 90
p0 79 ± 0.06185
450
400
350
300
250
200
150
100
50

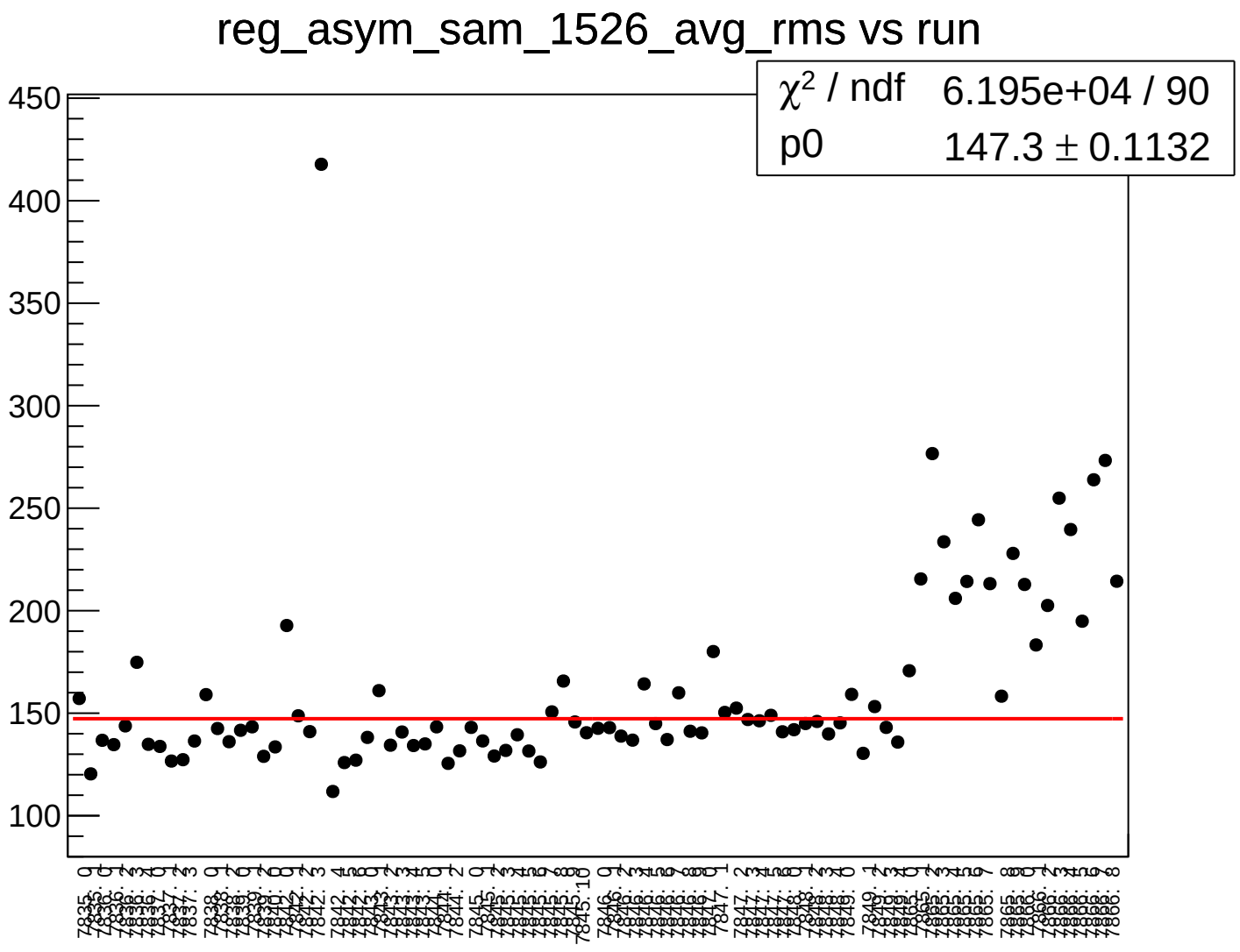

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.3 / 90
p0 −1.755e−13 ± 3.239e−13
pull
Entries 91
Mean 84.67
Std Dev 0

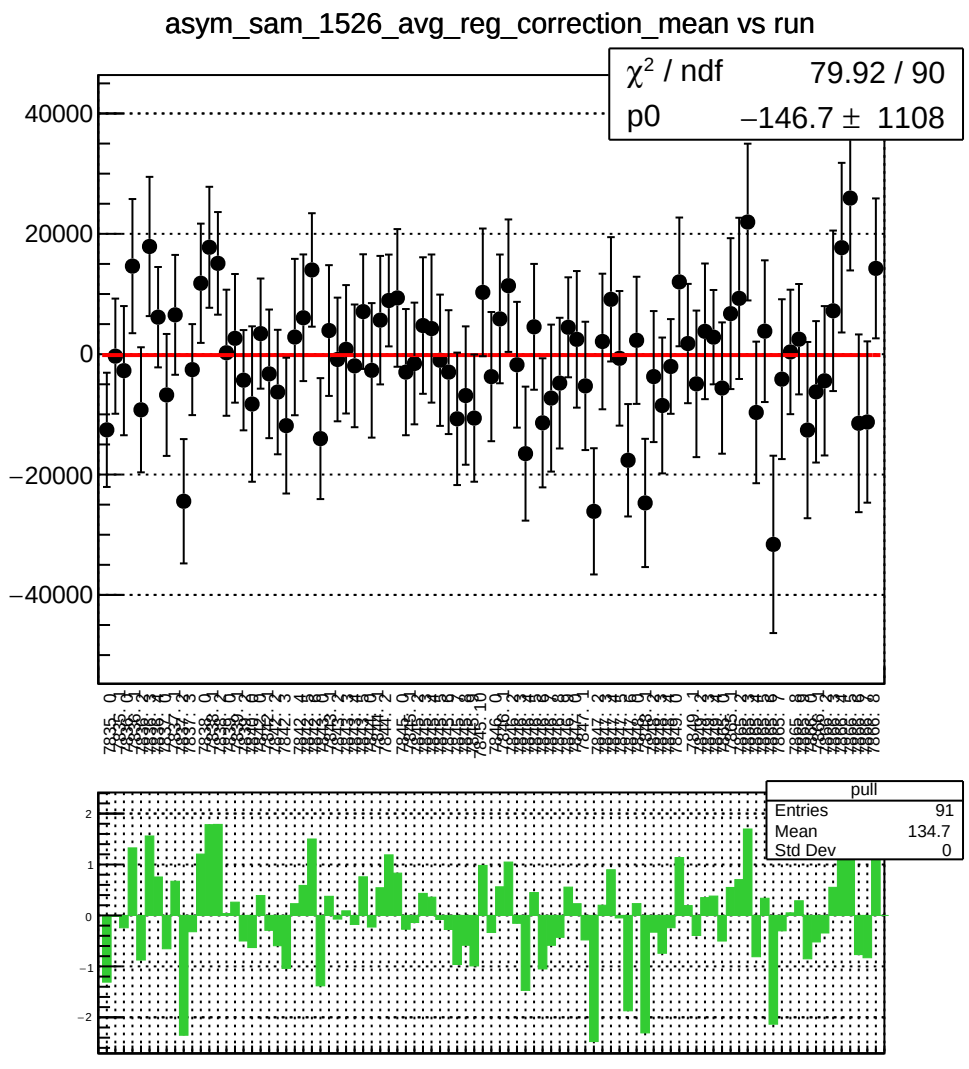

pull1D
Entries 91
Mean 0.1738
Std Dev 1.051

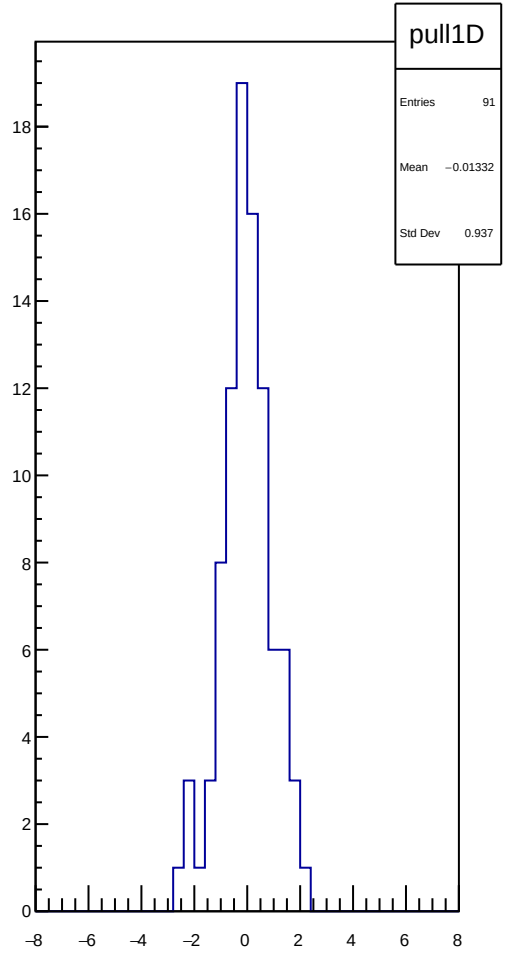

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.201e+05 / 90
p0 2.33e−10 ± 2.29e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

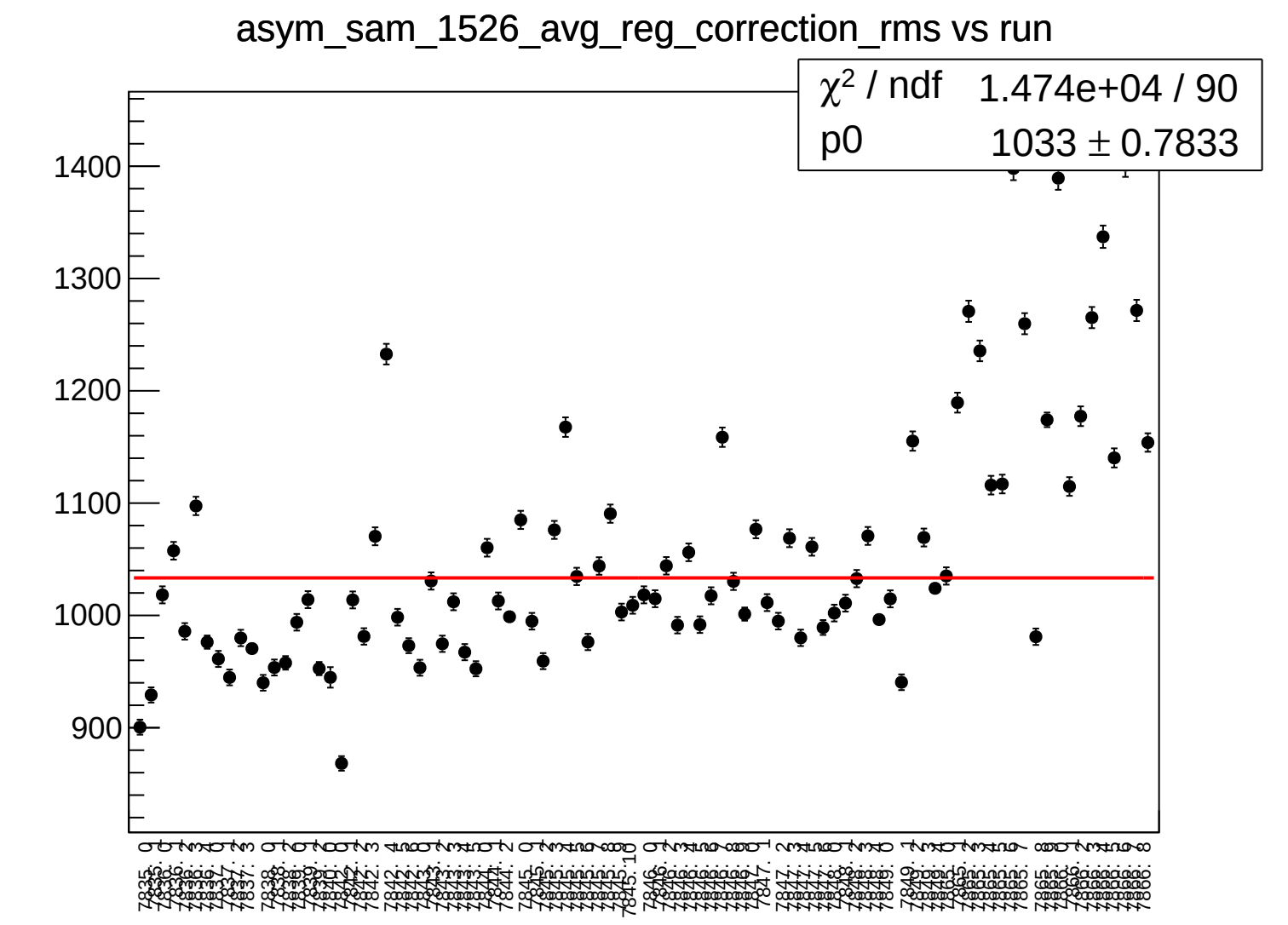

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 81.24 / 90
p0 229.8 ± 160.1
pull
Entries 91
Mean 121.8
Std Dev 0

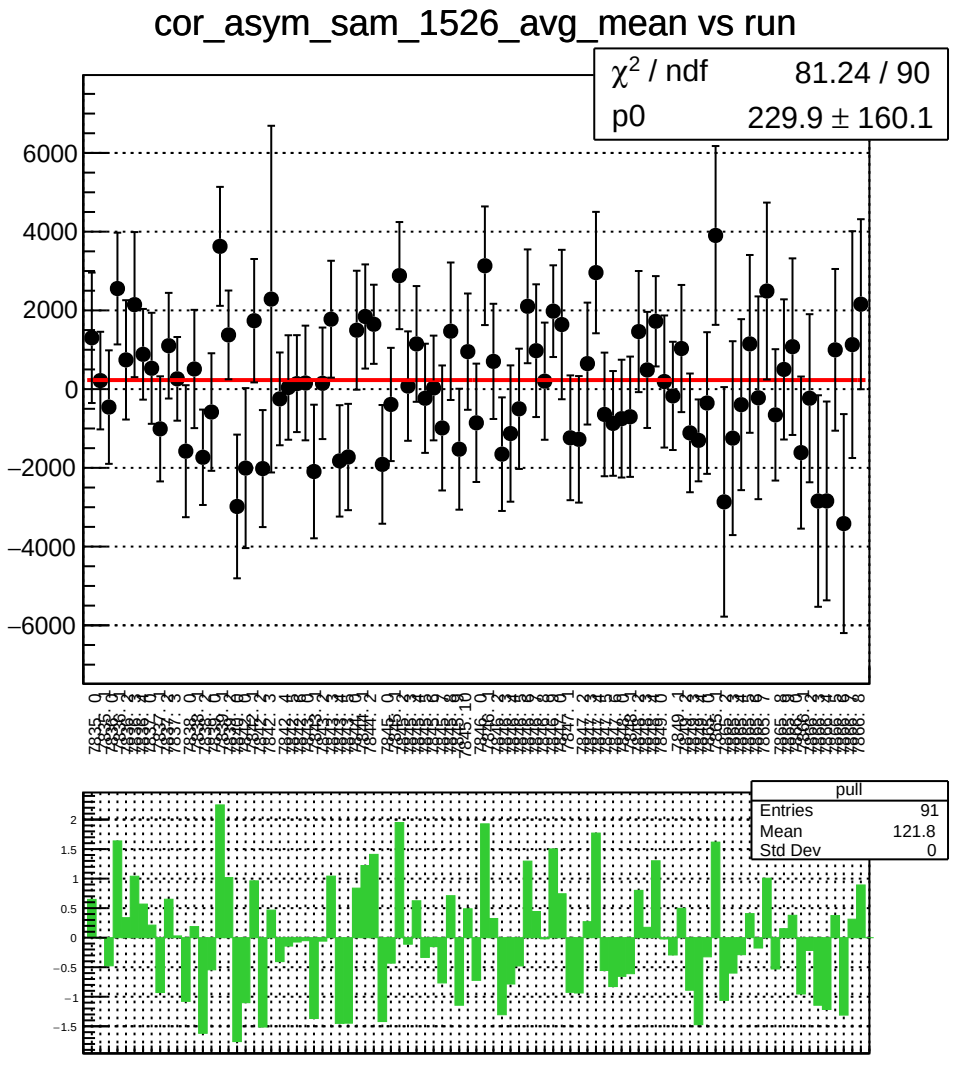

pull1D
Entries 91
Mean −0.02425
Std Dev 0.9446

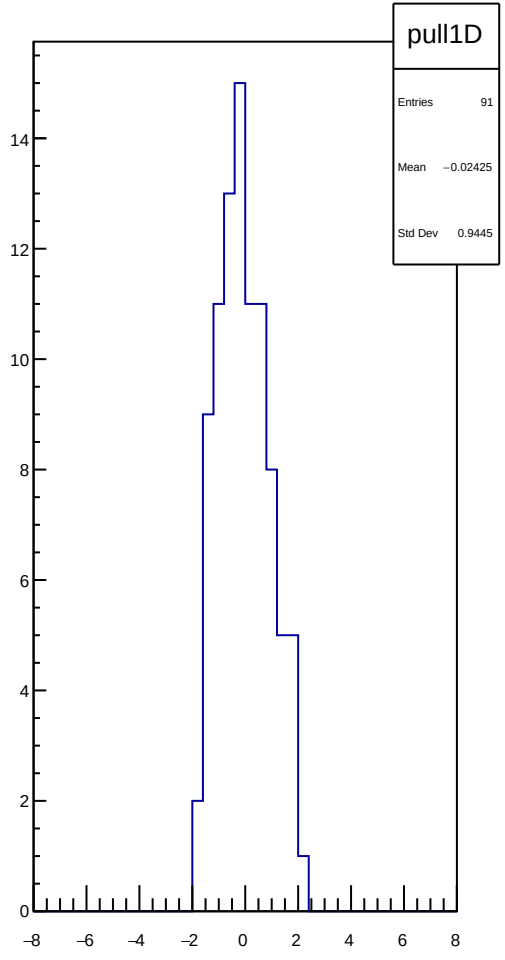

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6.195e+04 / 90
p0 147.3 ± 0.1132
450
400
350
300
250
200
150
100

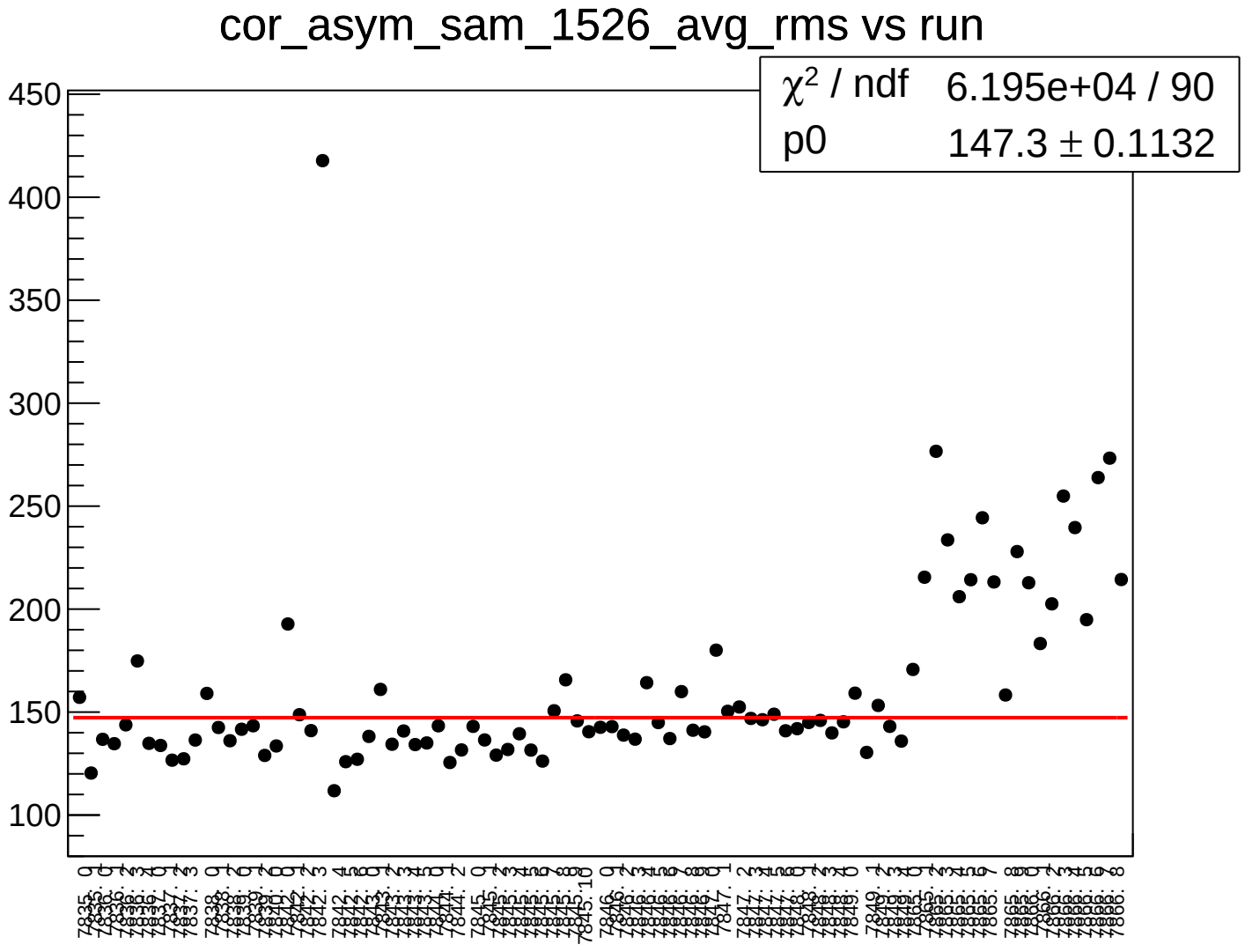

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 79.92 / 90
p0 −146.7 ± 1108
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 134.7
Std Dev 0
2
1
0
−1
−2

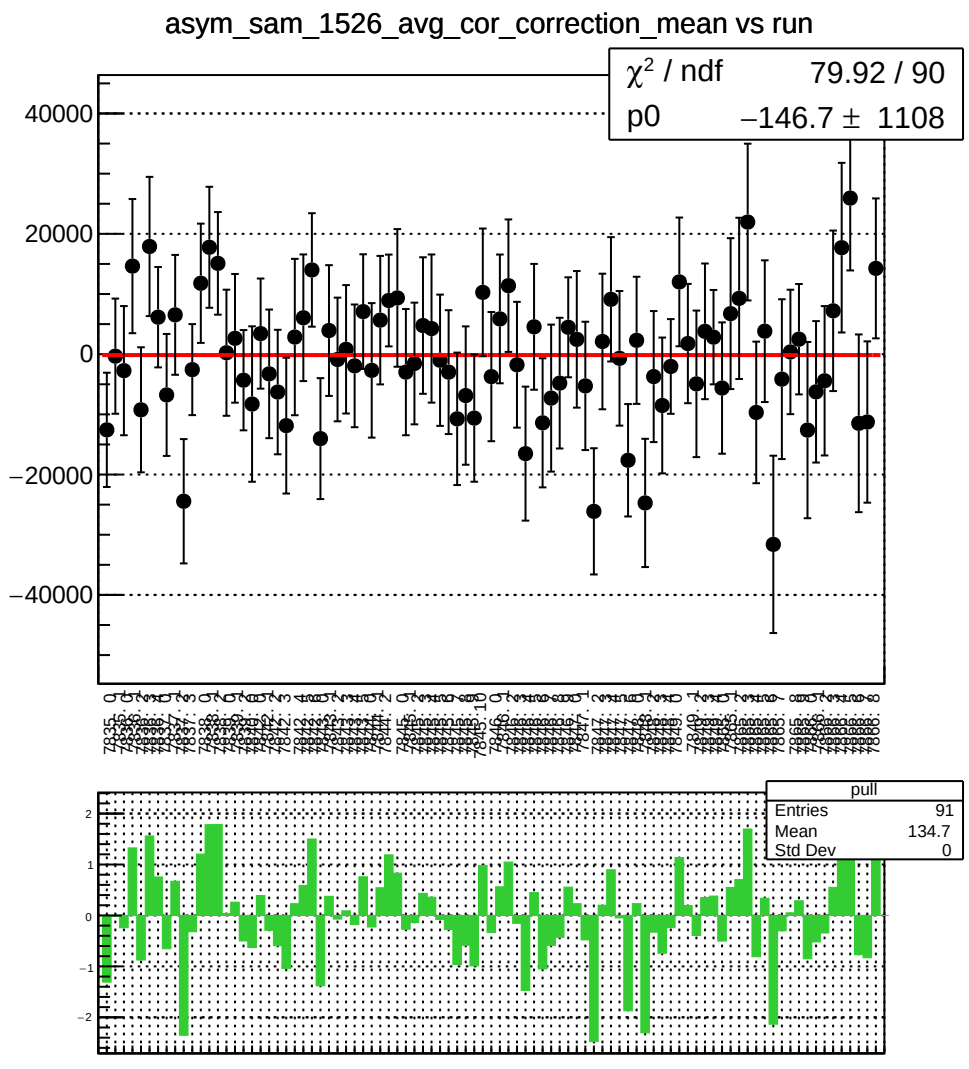

pull1D
Entries 91
Mean −0.01332
Std Dev 0.937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

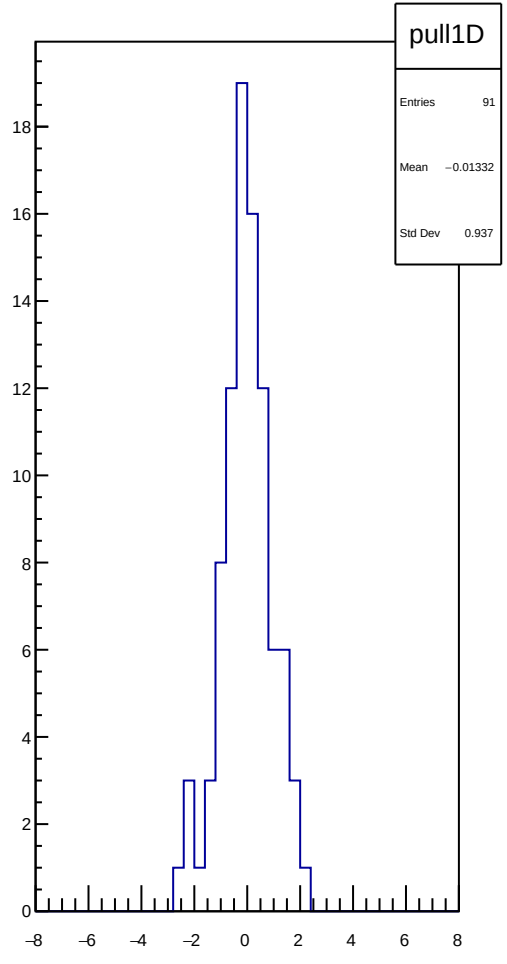

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.474e+04 / 90
p0 1033 ± 0.7833
1400
1300
1200
1100
1000
900

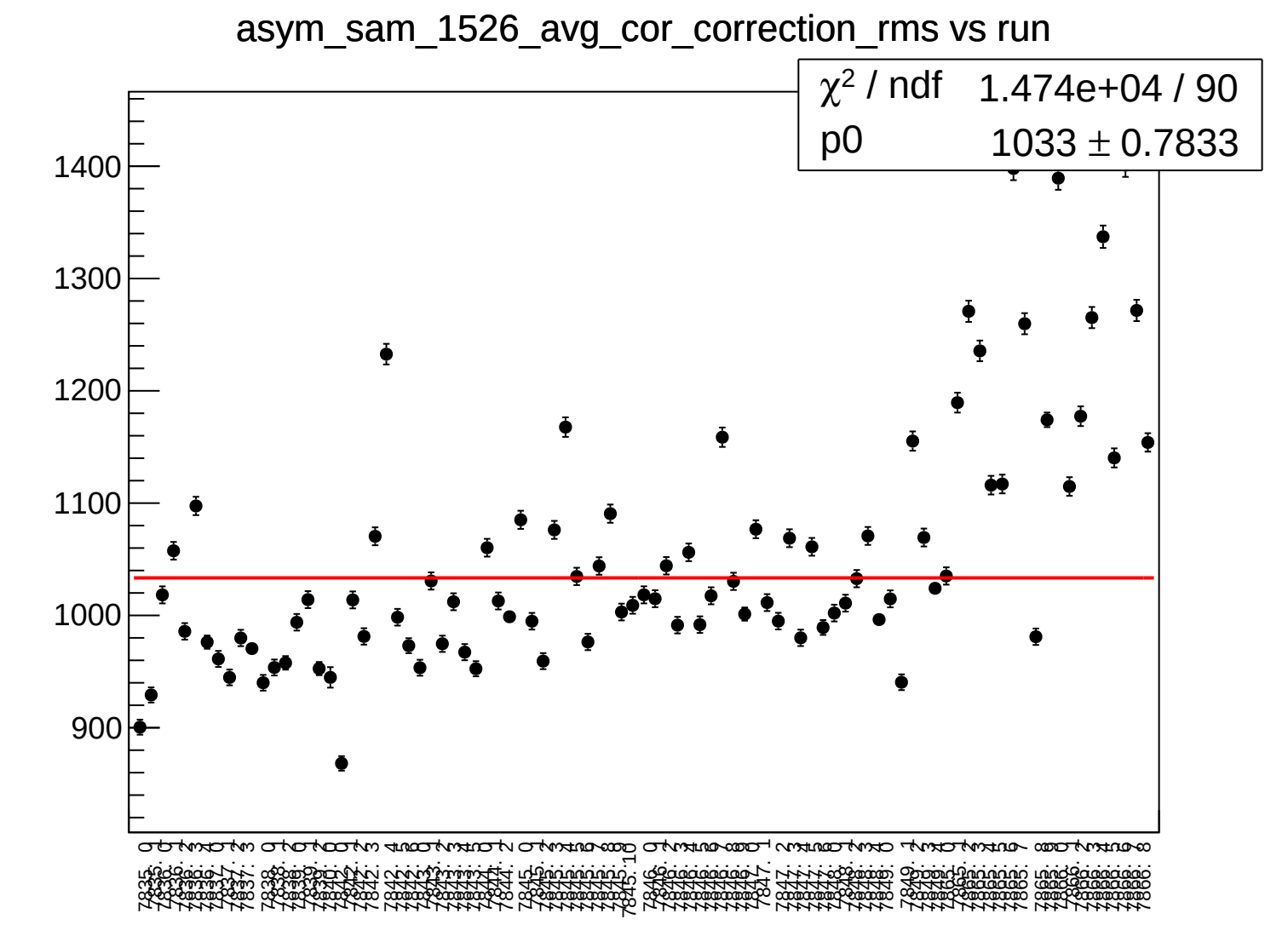

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 81.24 / 90
p0 229.9 ± 160.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 121.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

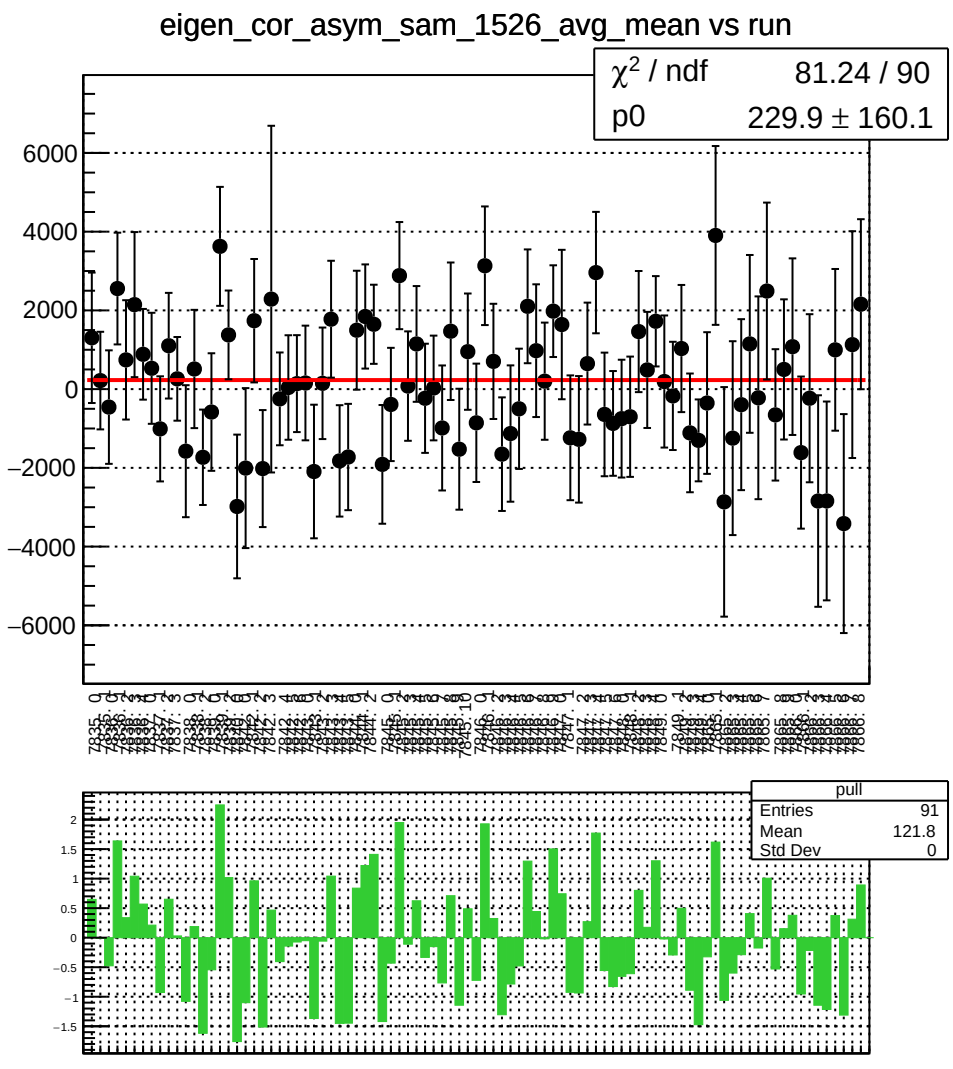

pull1D
Entries 91
Mean −0.02425
Std Dev 0.9445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

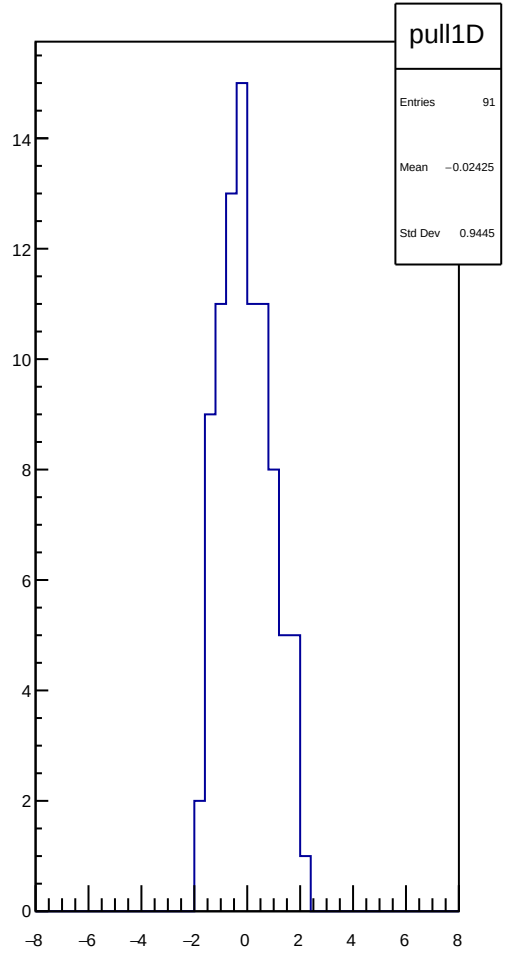

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6.195e+04 / 90
p0 147.3 ± 0.1132
450
400
350
300
250
200
150
100

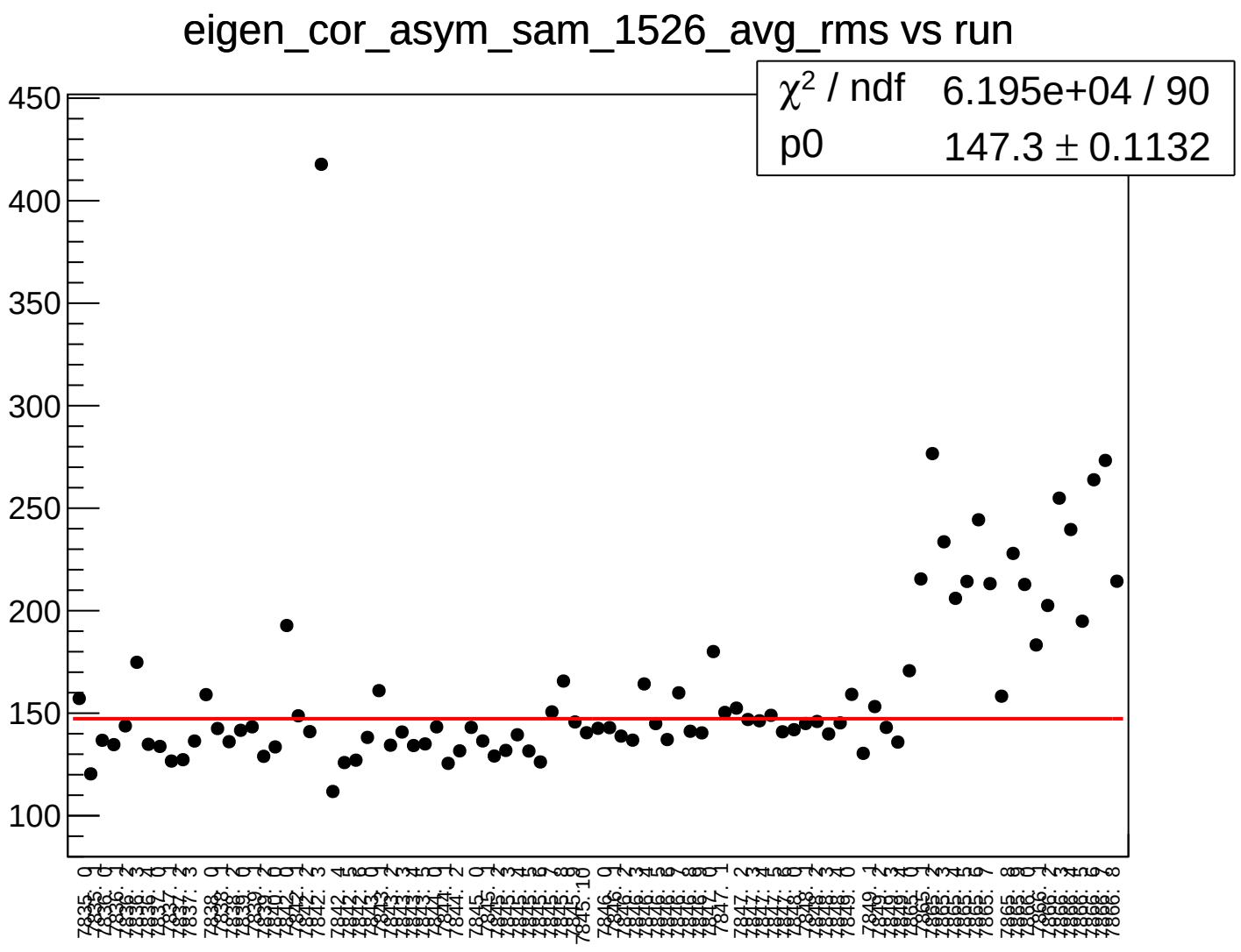

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 79.92 / 90
p0 −146.7 ± 1108
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 134.7
Std Dev 0
2
1
0
−1
−2

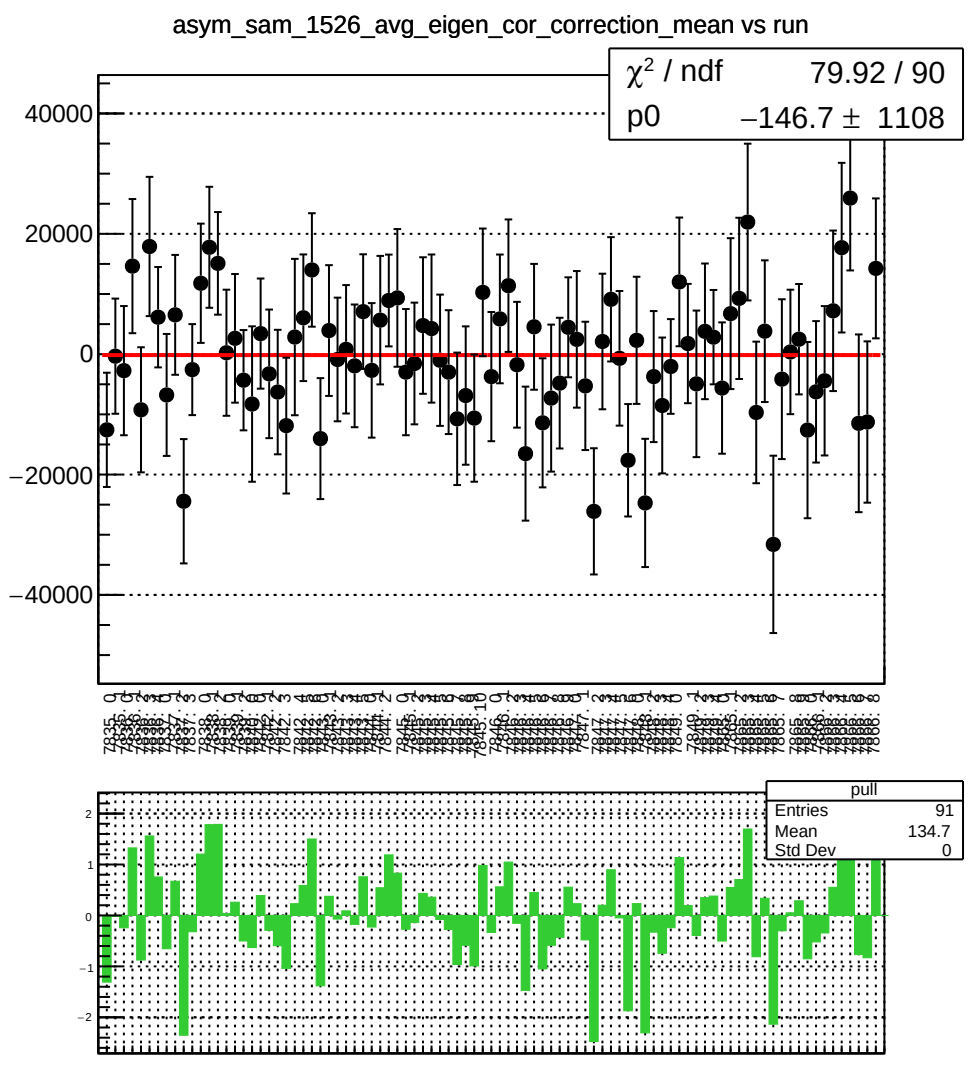

pull1D
Entries 91
Mean −0.01332
Std Dev 0.937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

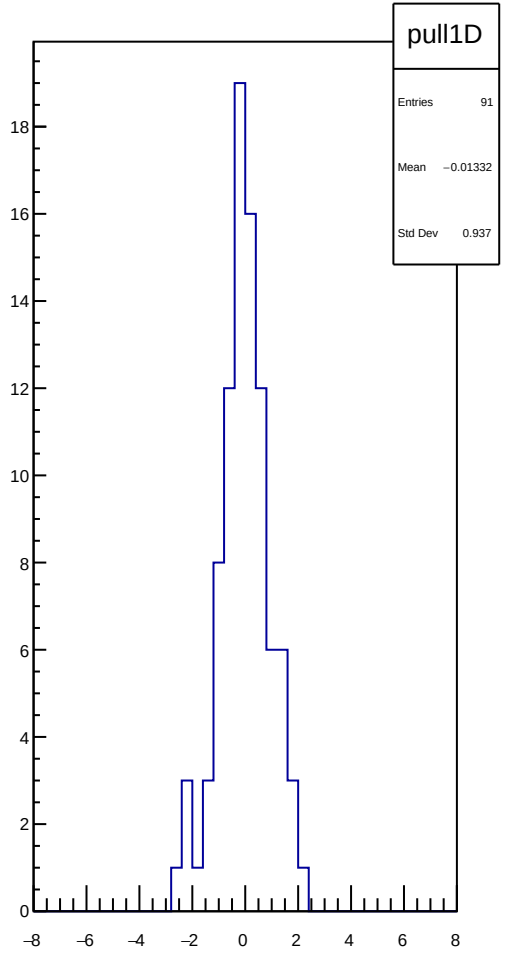

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 90
p0 1033 ± 0.7833
1400
1300
1200
1100
1000
900


eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 81.24 / 90
p0 229.9 ± 160.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 121.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 91
Mean −0.02425
Std Dev 0.9445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 6.195e+04 / 90
p0 147.3 ± 0.1132
450
400
350
300
250
200
150
100


asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.92 / 90
p0 −146.7 ± 1108
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 134.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01332
Std Dev 0.937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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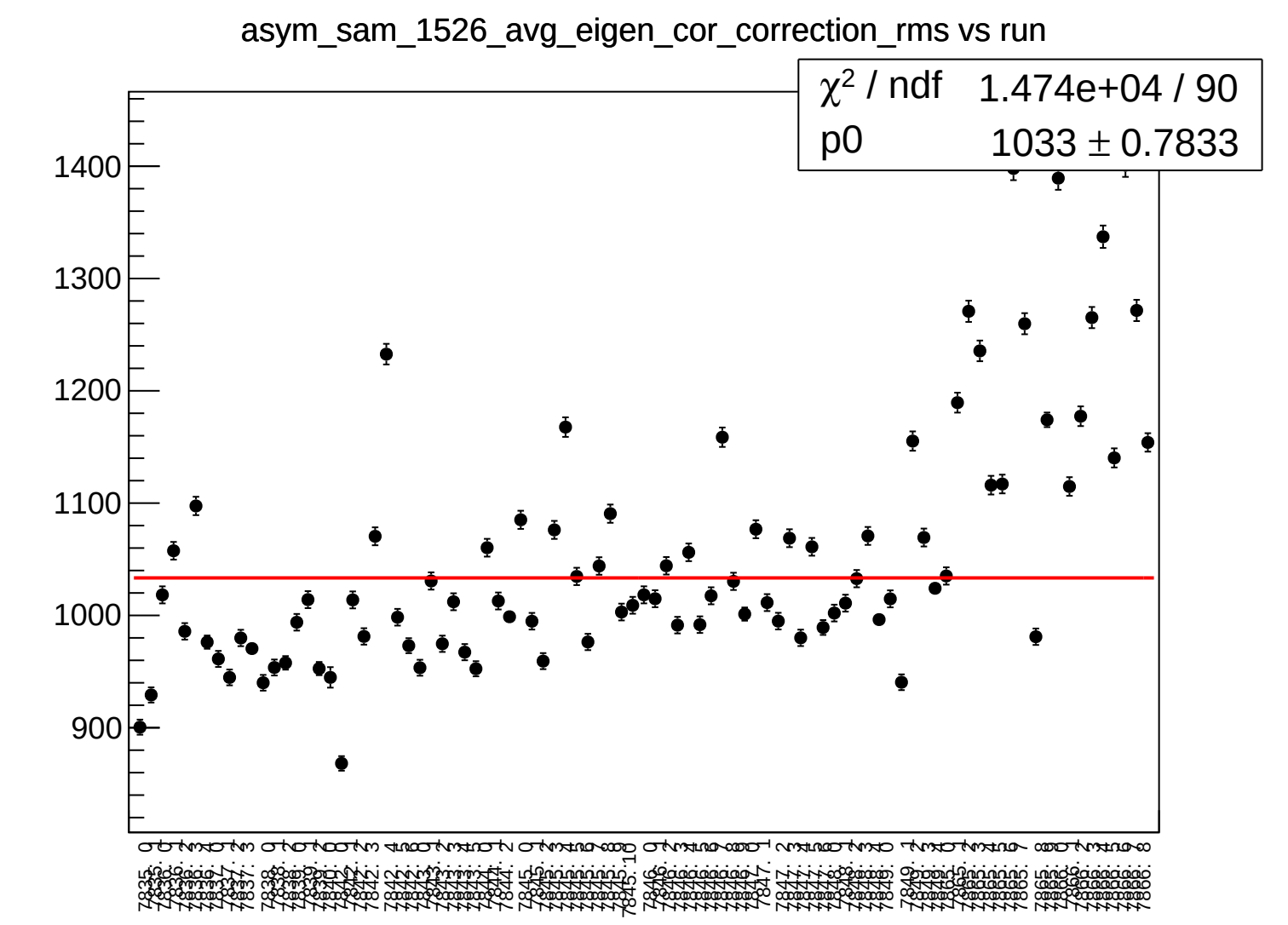
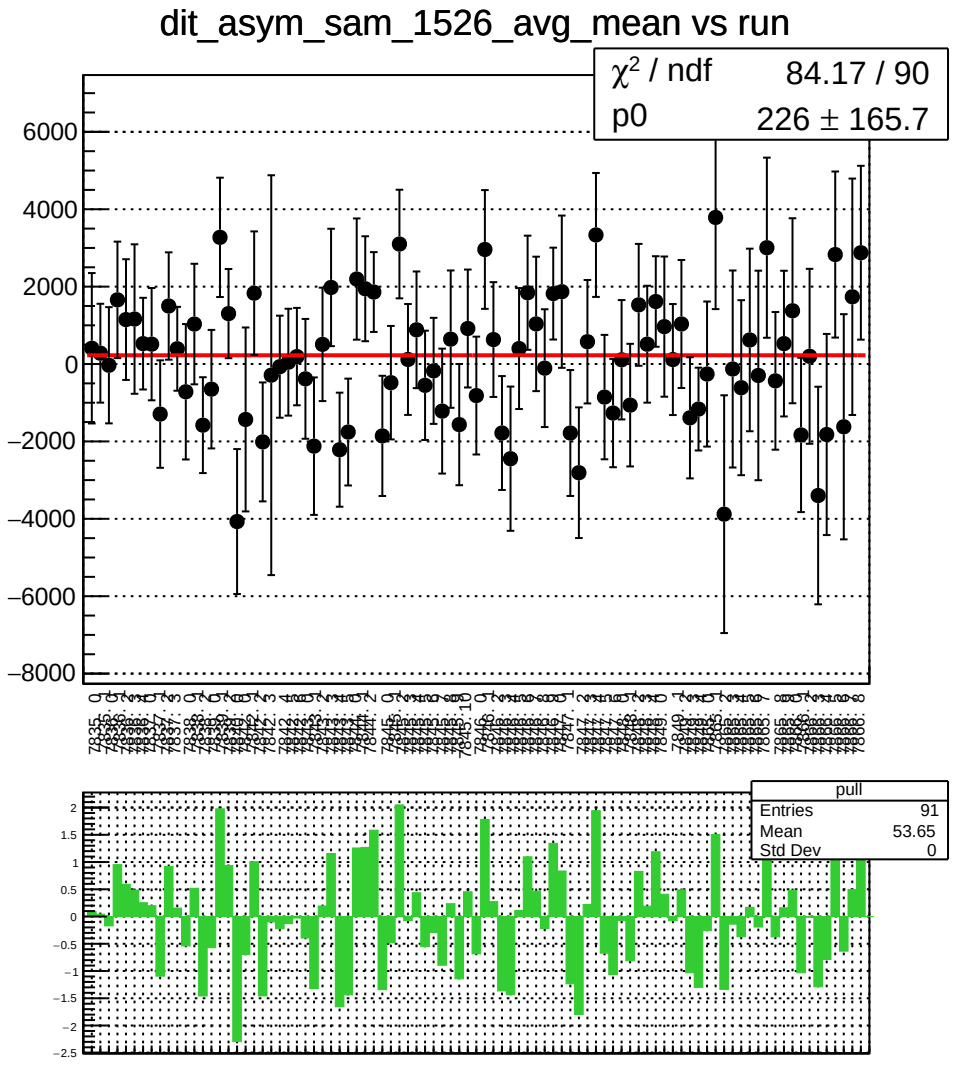
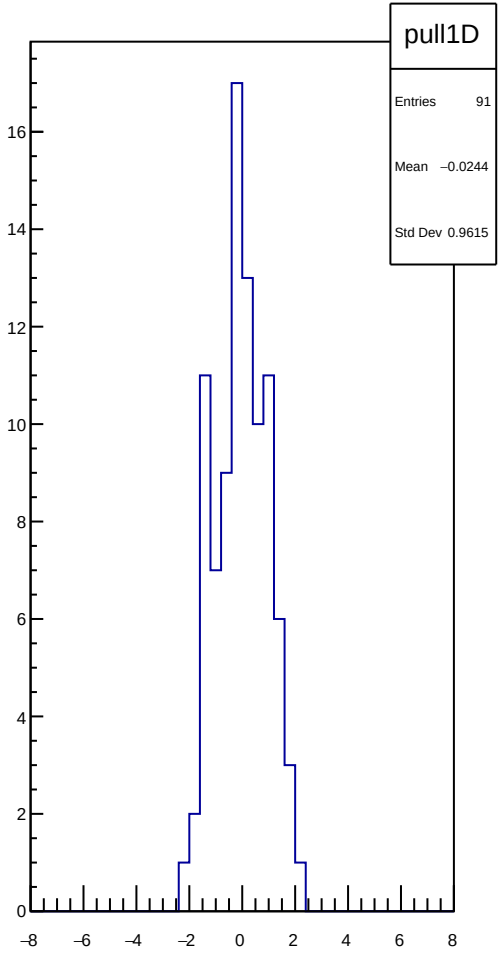
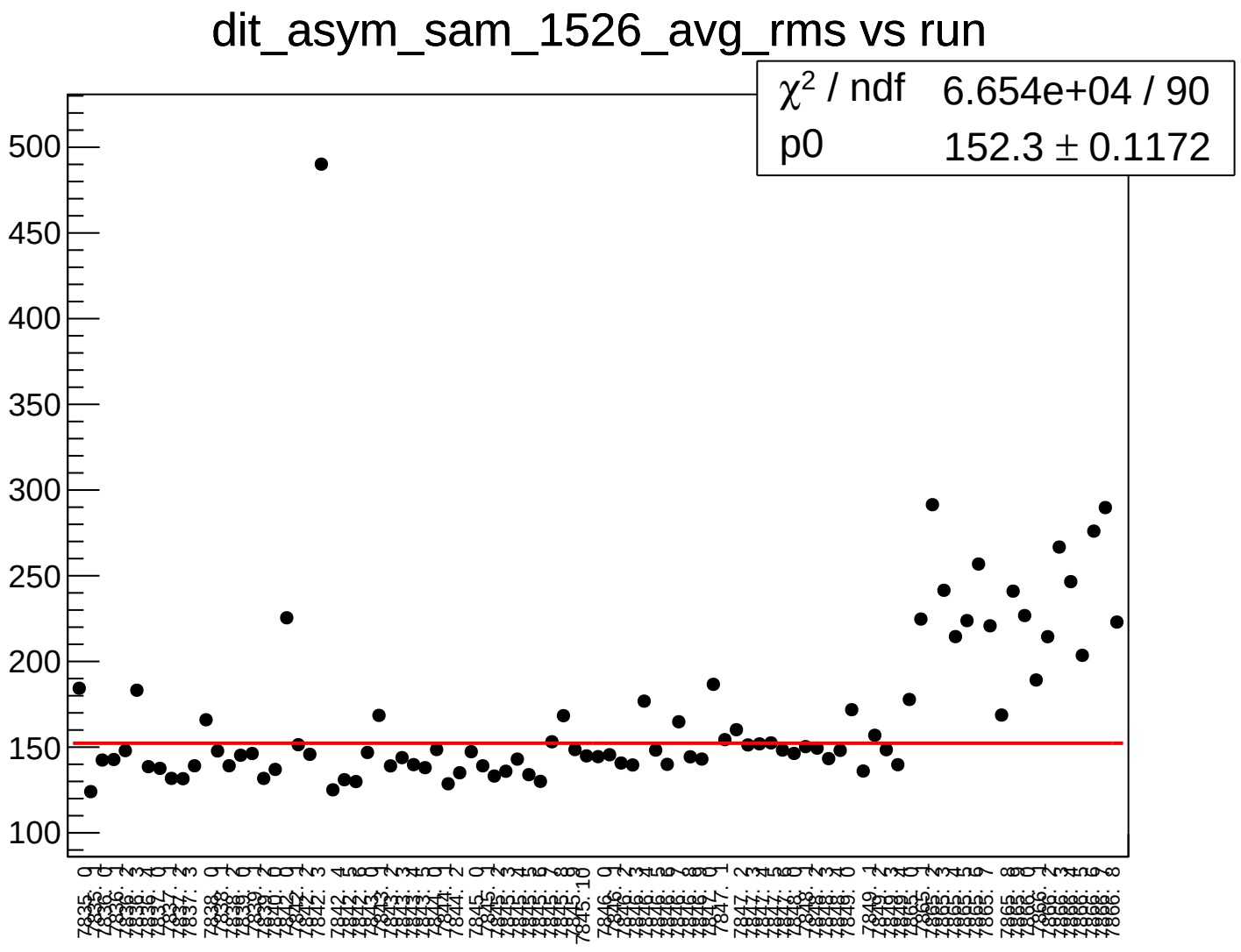
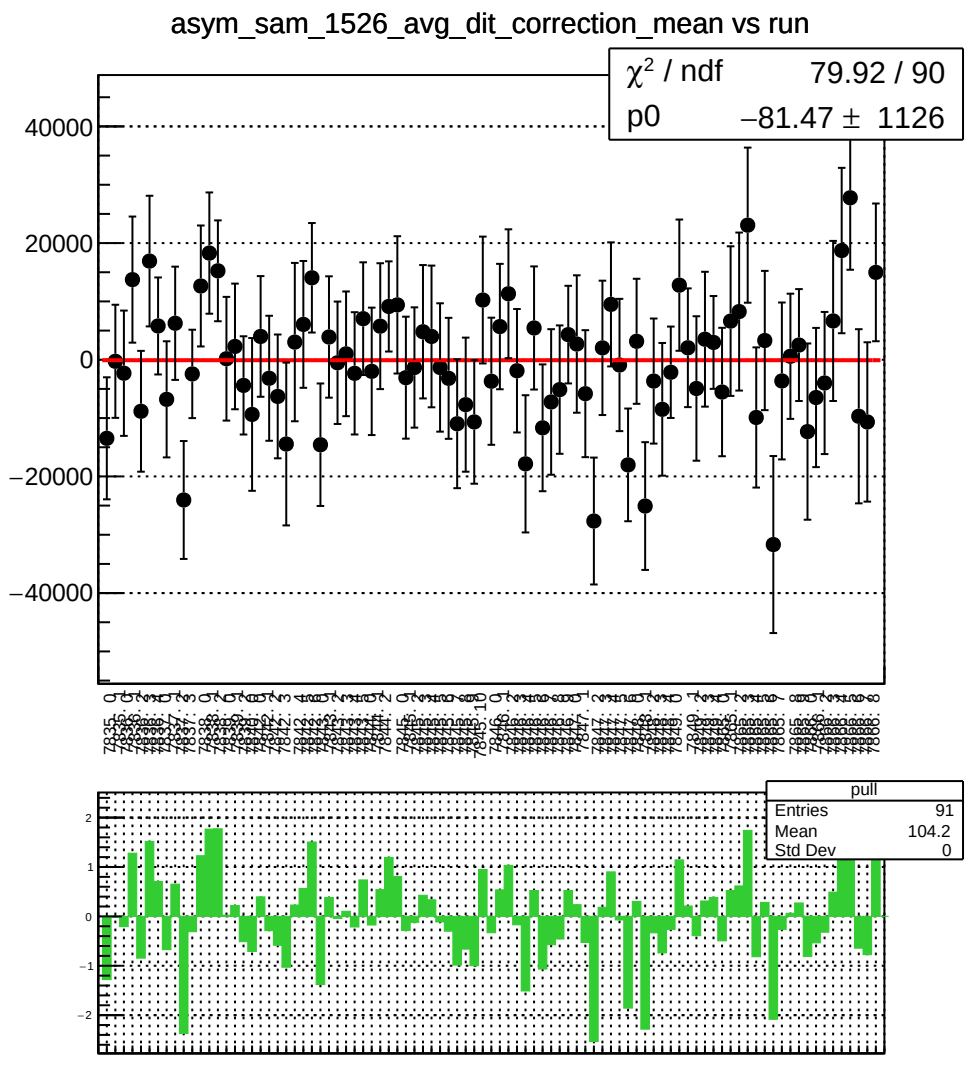
0
2
4
6
8

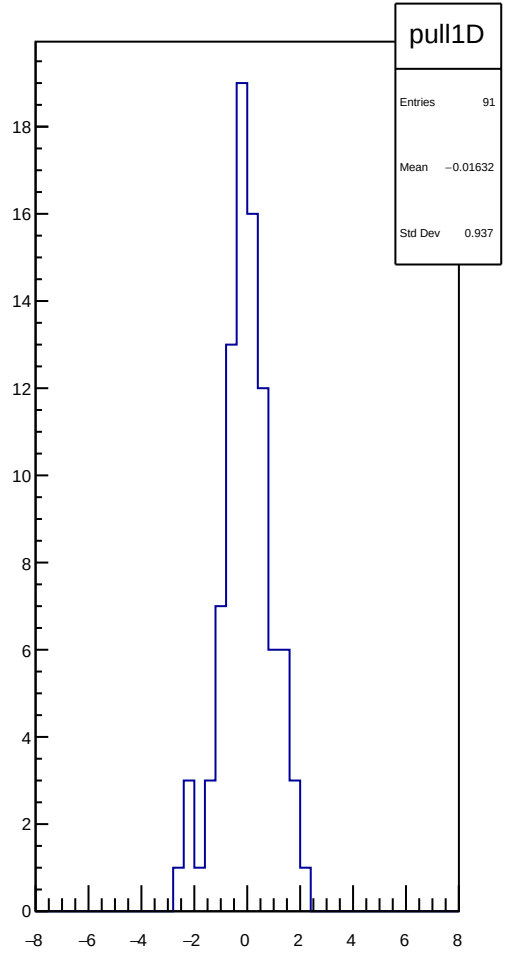

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 90
p0 1033 ± 0.7833
1400
1300
1200
1100
1000
900

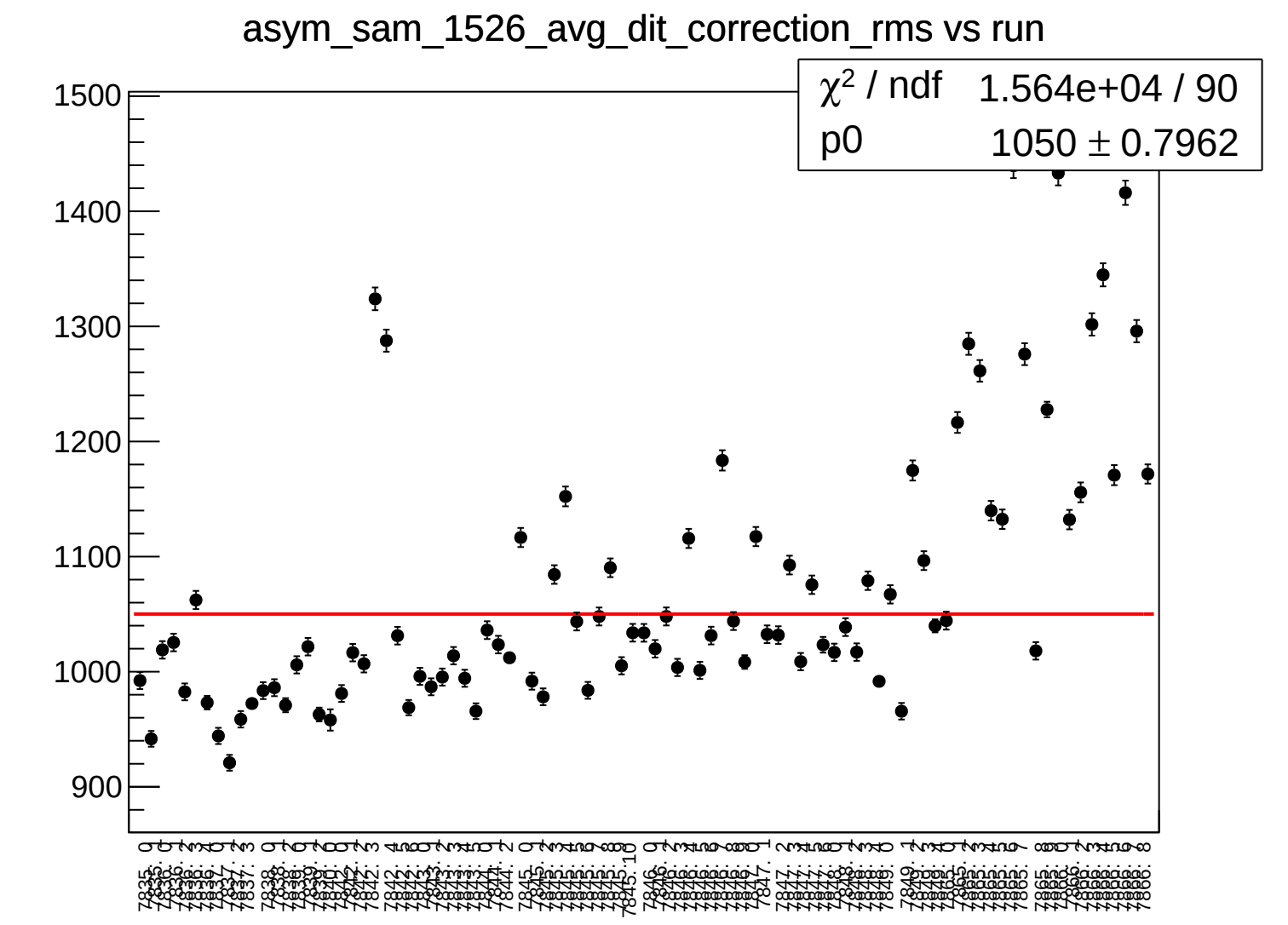

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 84.17 / 90
p0 226 ± 165.7
pull
Entries 91
Mean 53.65
Std Dev 0

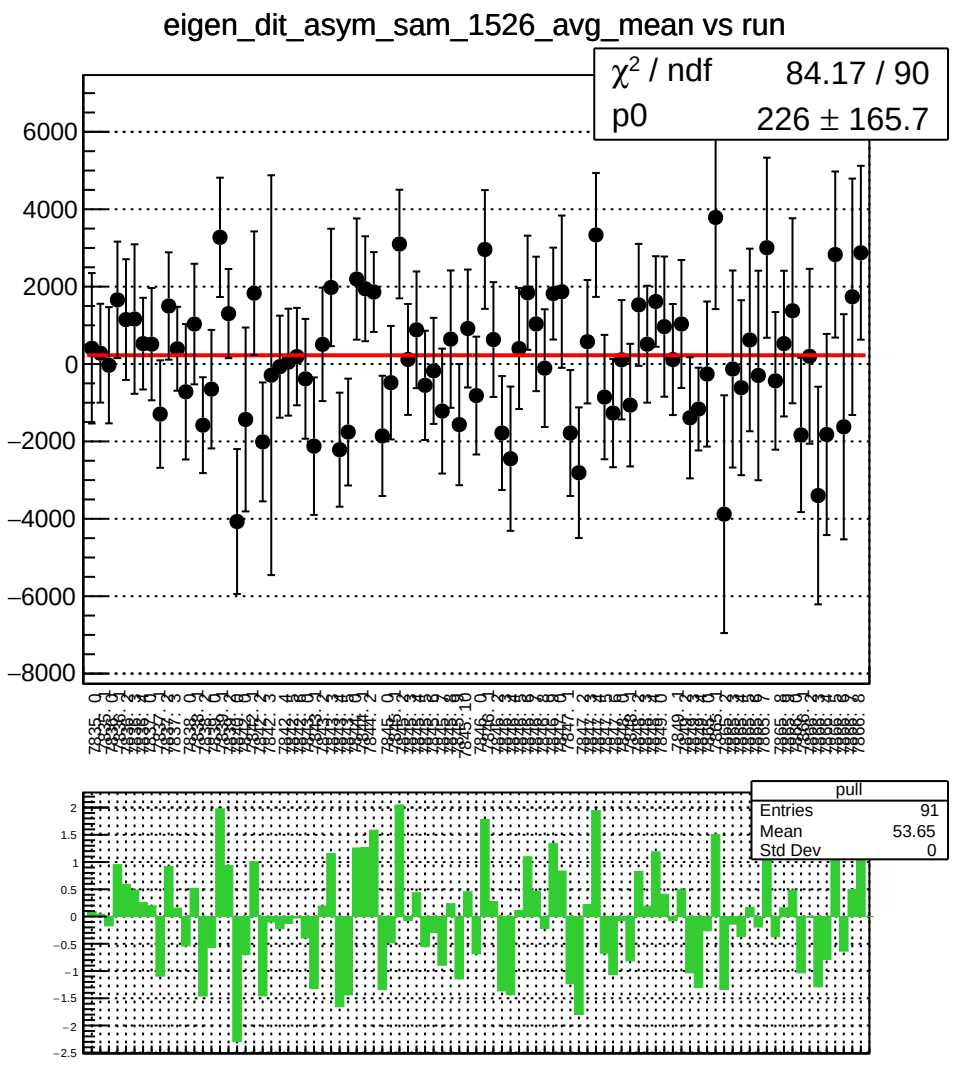

pull1D
Entries 91
Mean −0.0244
Std Dev 0.9615

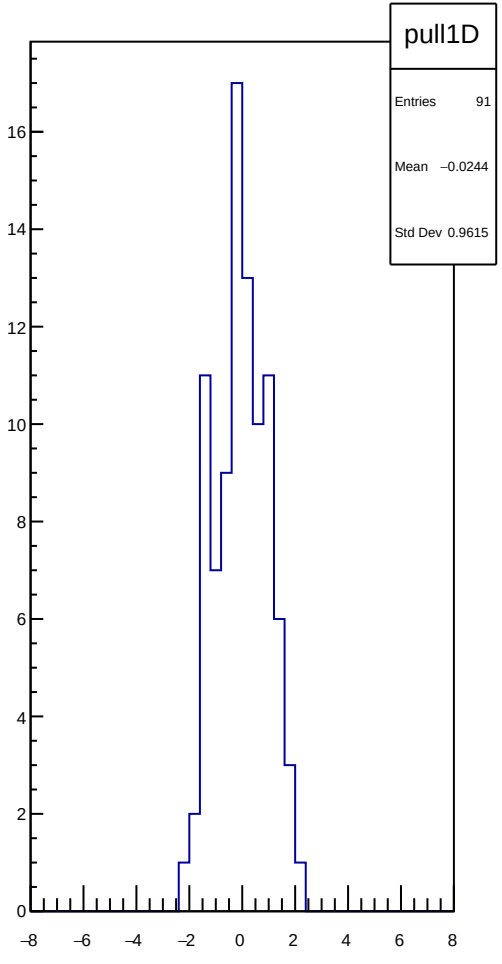

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 6.654e+04 / 90
p0 152.3 ± 0.1172
500
450
400
350
300
250
200
150
100

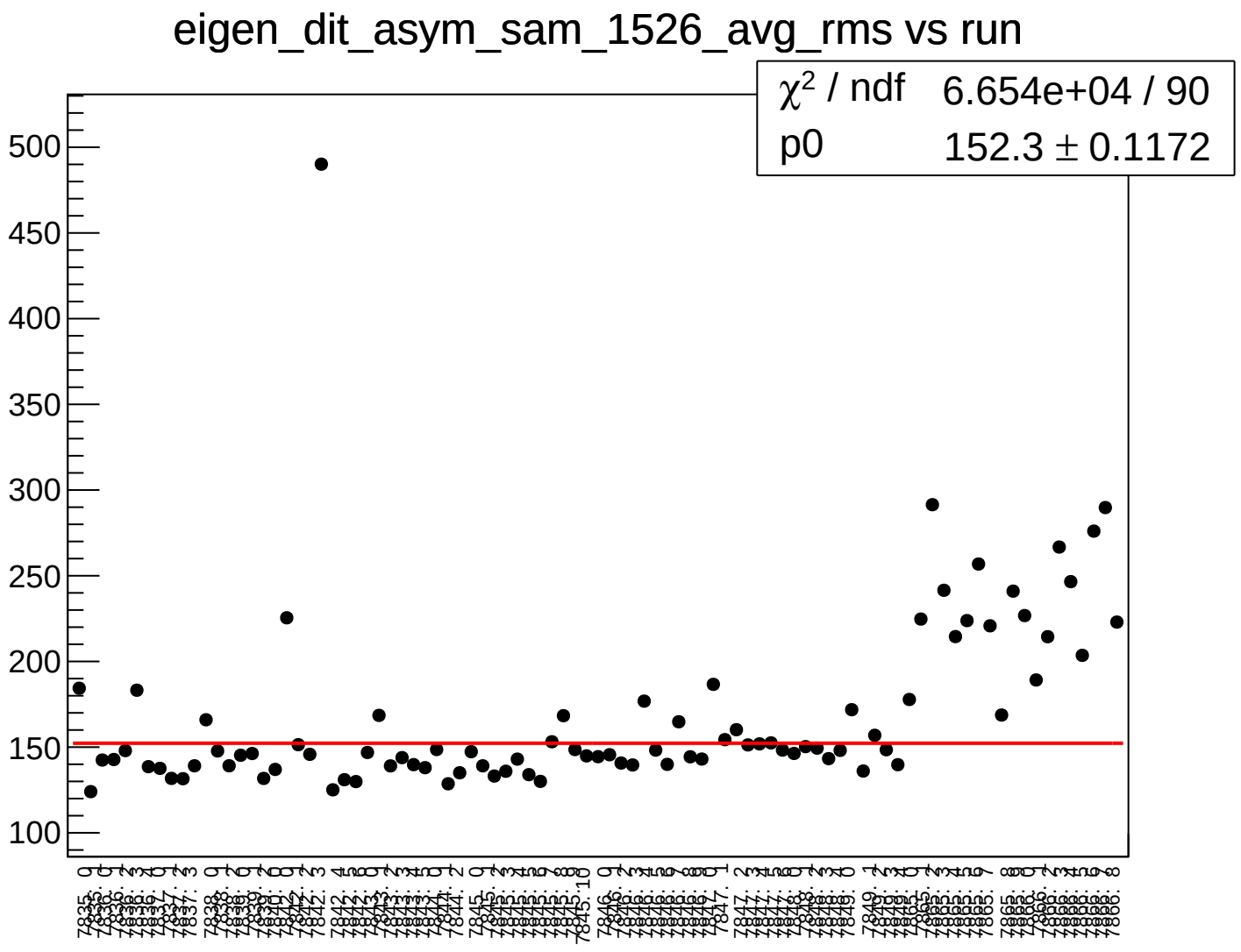

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 79.92 / 90
p0 −81.47 ± 1126
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 104.2
Std Dev 0
2
1
0
−1
−2

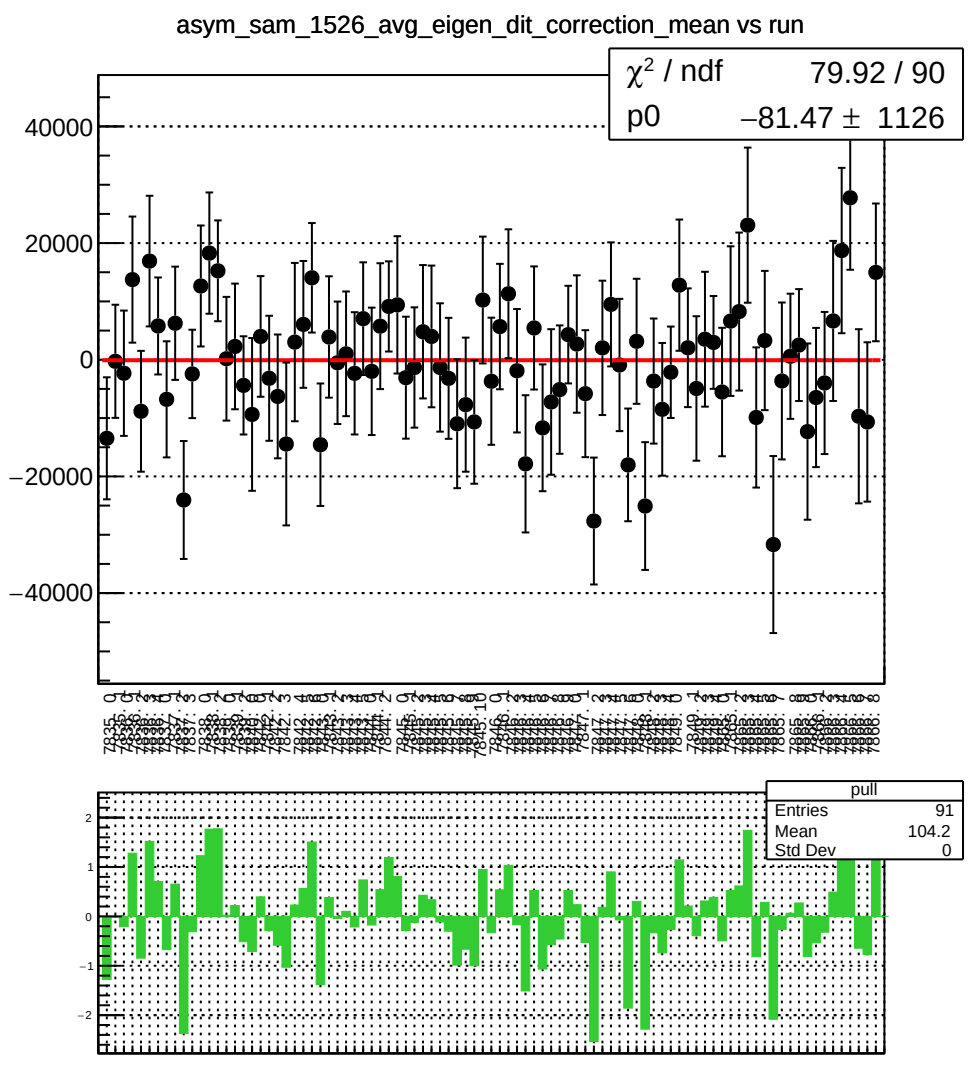

pull1D
Entries 91
Mean −0.01632
Std Dev 0.937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

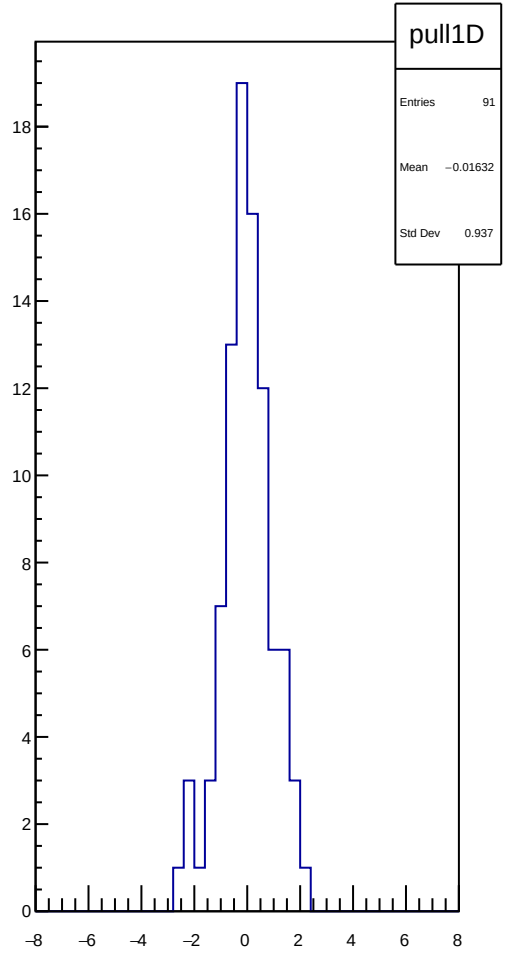

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.564e+04 / 90
p0 1050 ± 0.7962
1500
1400
1300
1200
1100
1000
900

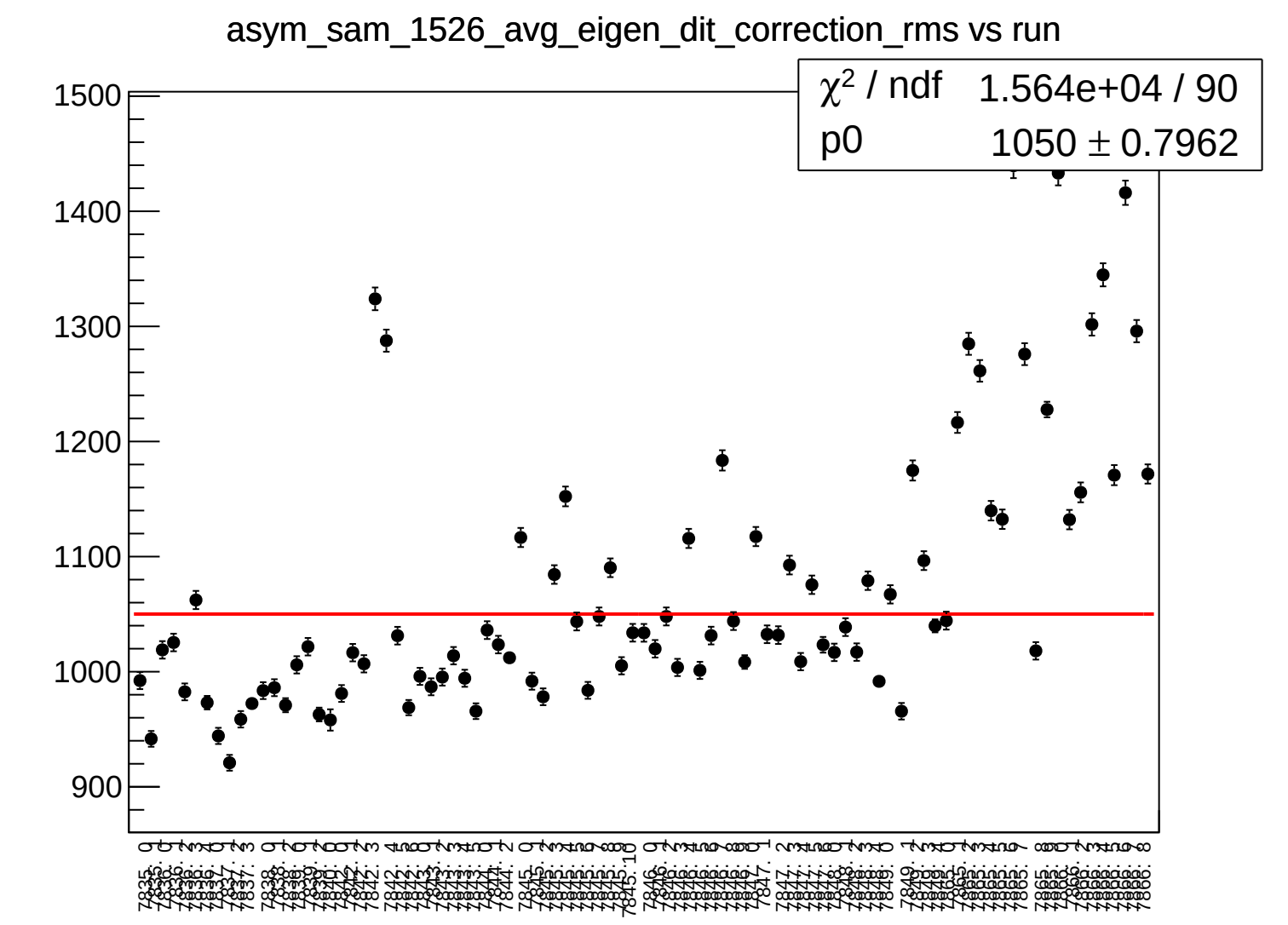

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 84.17 / 90
p0 226 ± 165.7
pull
Entries 91
Mean 53.65
Std Dev 0

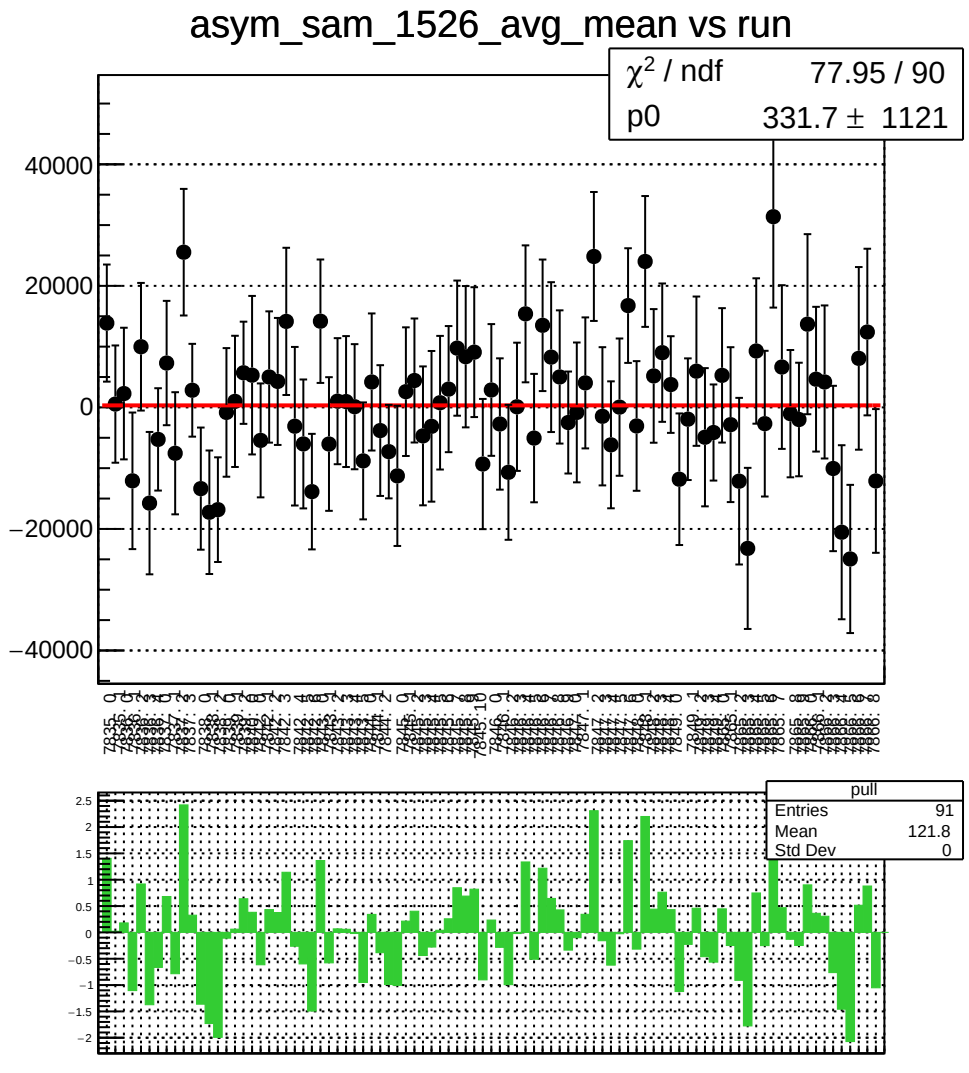

pull1D
Entries 91
Mean −0.0244
Std Dev 0.9615

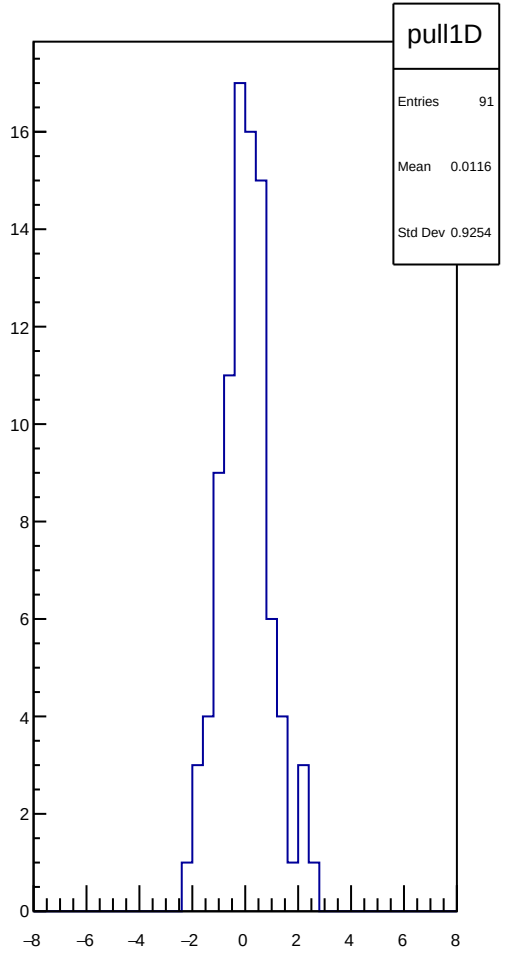

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 6.654e+04 / 90
p0 152.3 ± 0.1172
500
450
400
350
300
250
200
150
100

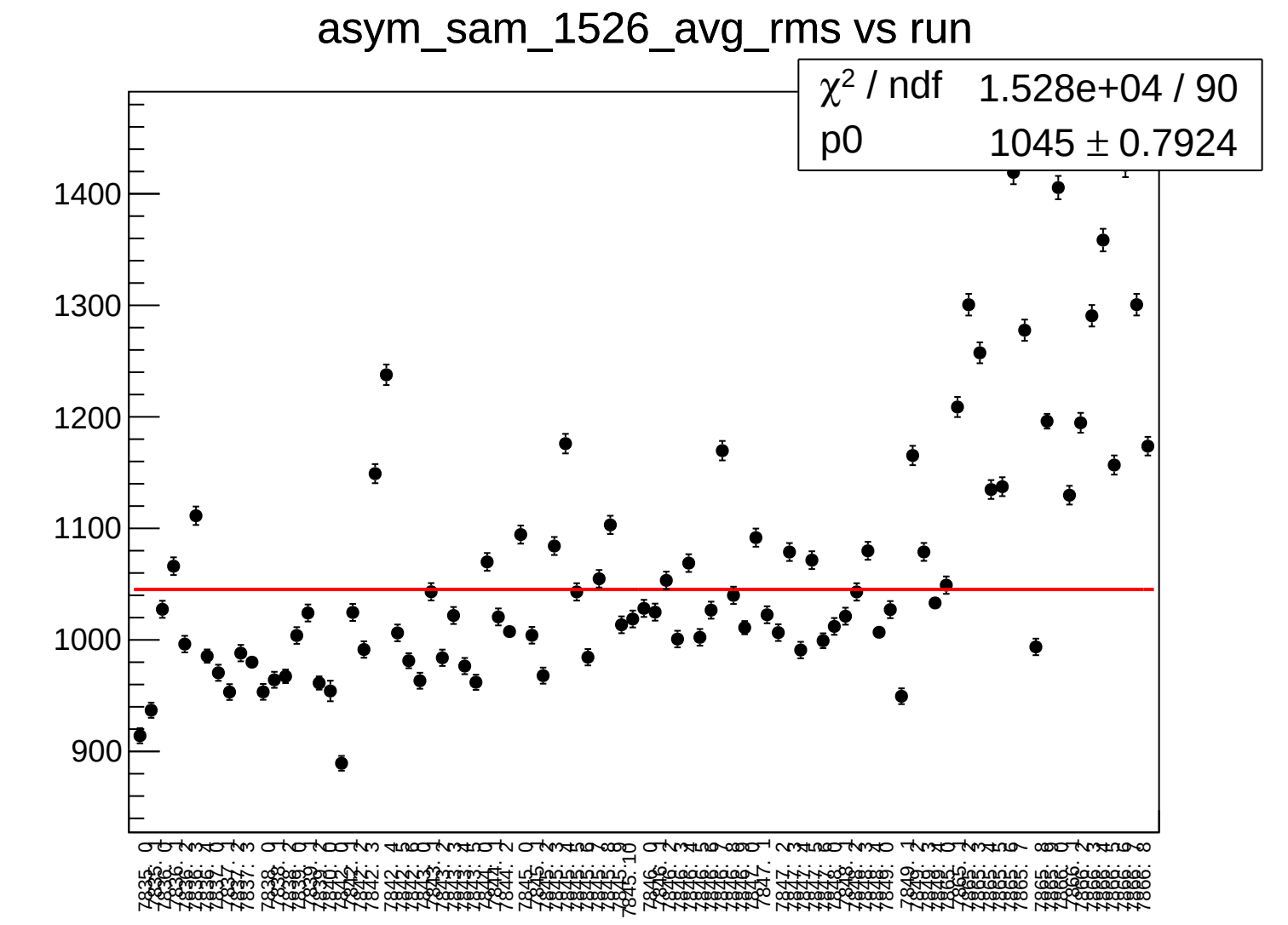

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.92 / 90
p0 −81.47 ± 1126
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 104.2
Std Dev 0
2
1
0
−1
−2

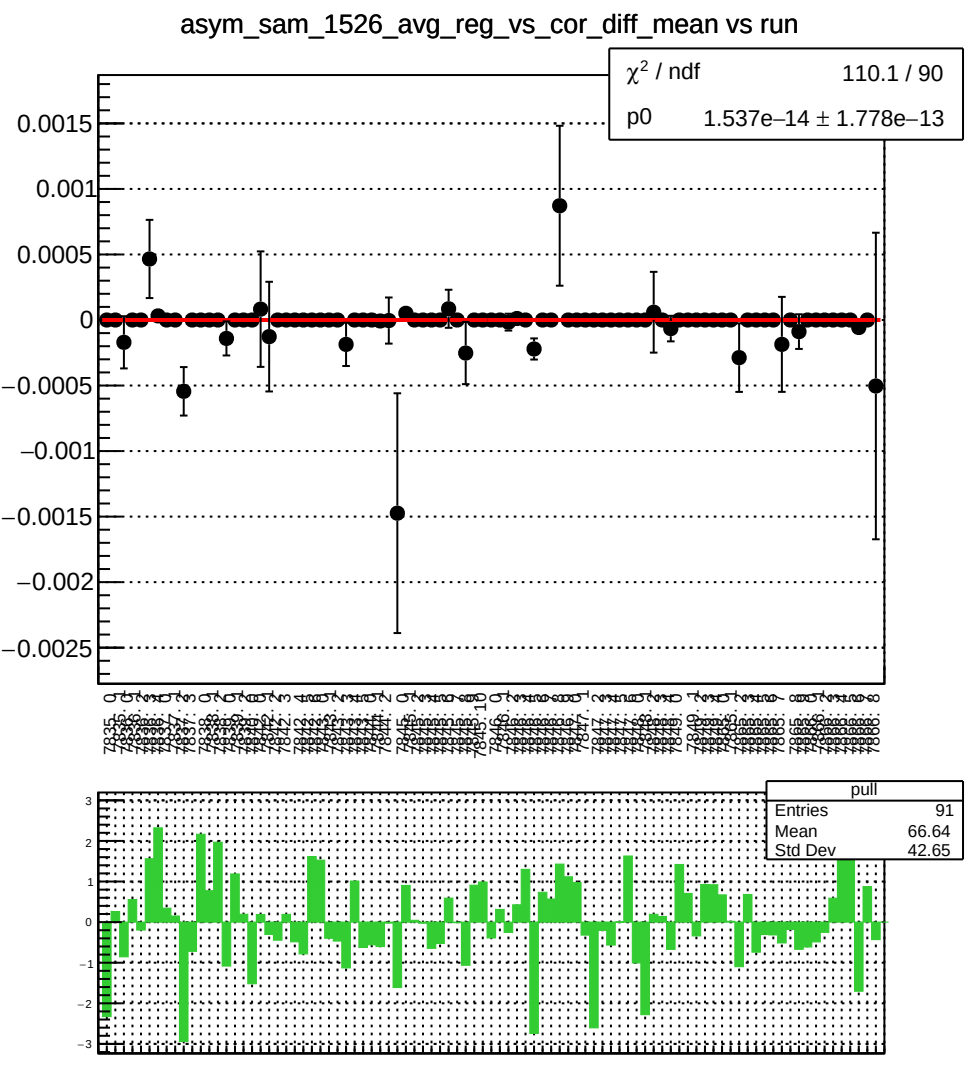

pull1D
Entries 91
Mean −0.01632
Std Dev 0.937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

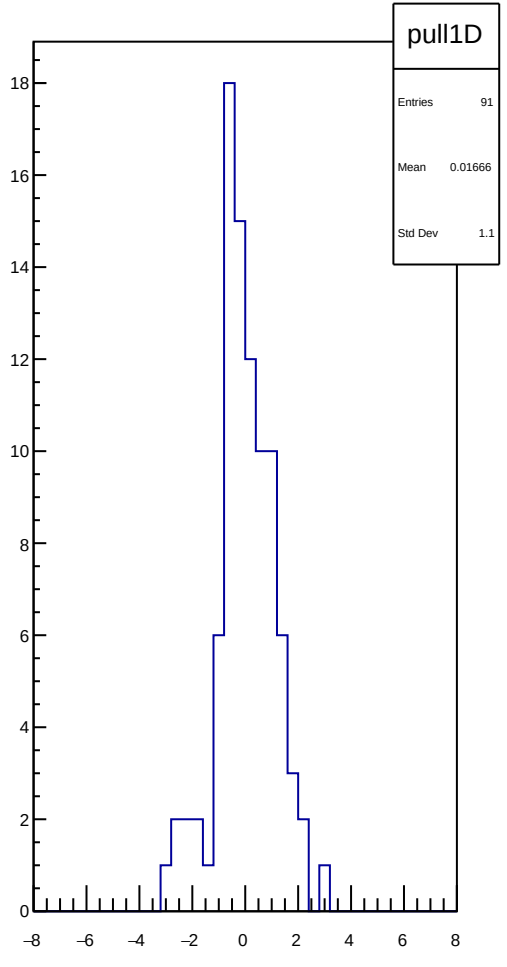

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.564e+04 / 90
p0 1050 ± 0.7962
1500
1400
1300
1200
1100
1000
900

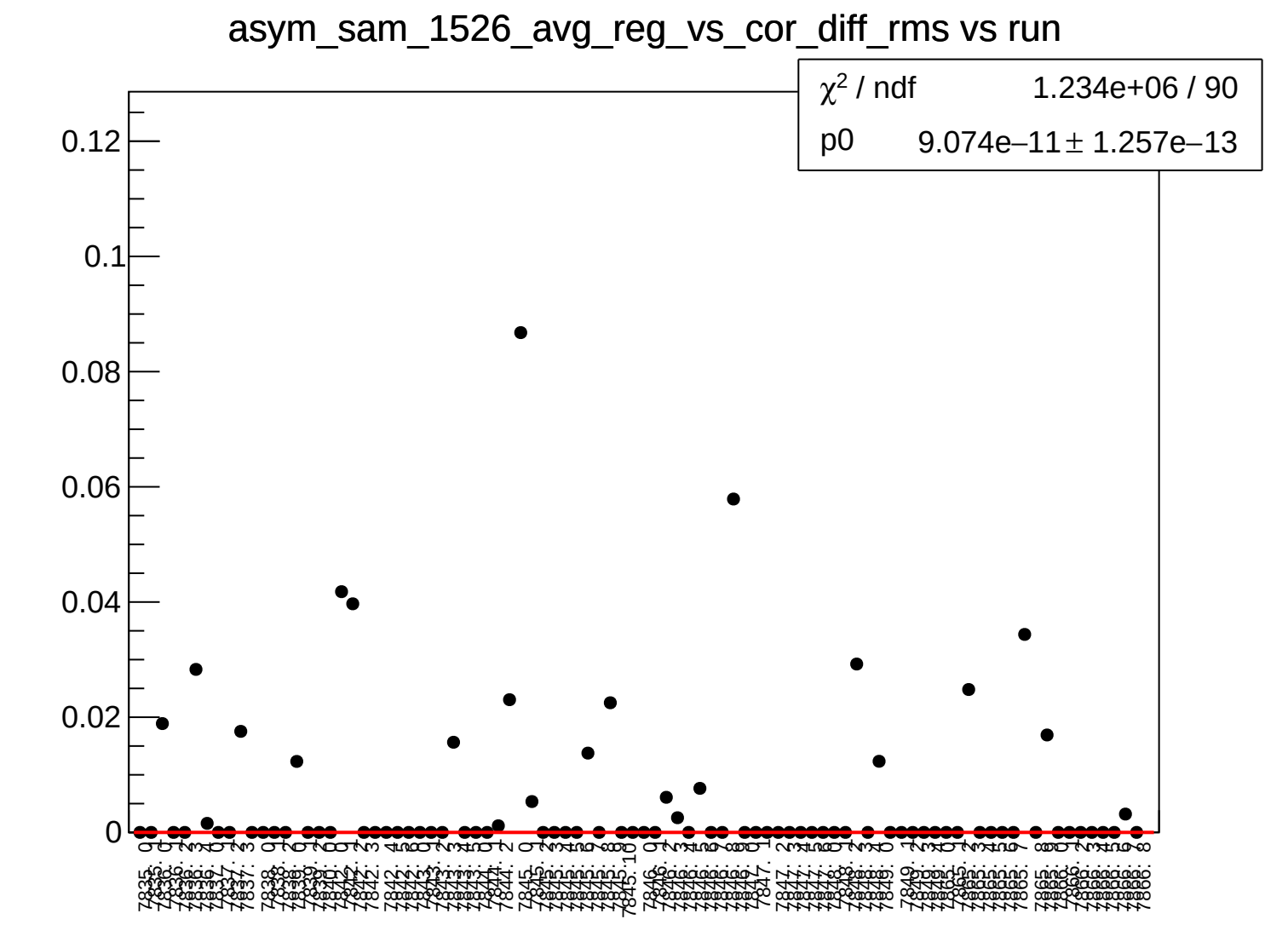

asym_sam_1526_avg_mean vs run
χ² / ndf 77.95 / 90
p0 331.7 ± 1121
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 121.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

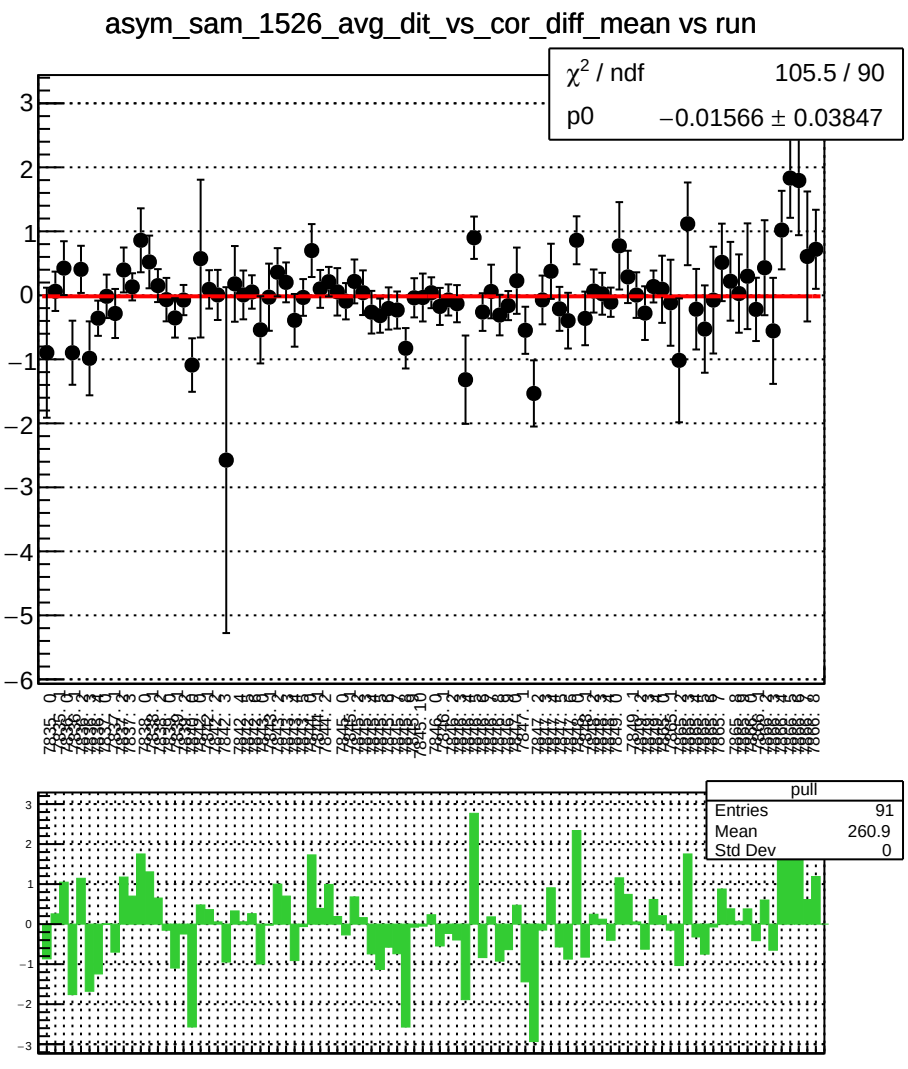

pull1D
Entries 91
Mean 0.0116
Std Dev 0.9254
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

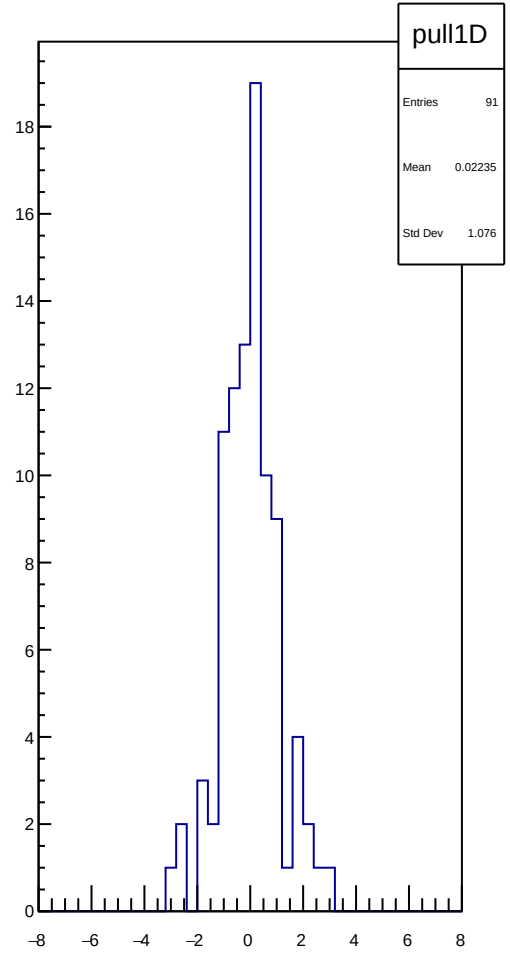

asym_sam_1526_avg_rms vs run
χ² / ndf 1.528e+04 / 90
p0 1045 ± 0.7924
1400
1300
1200
1100
1000
900

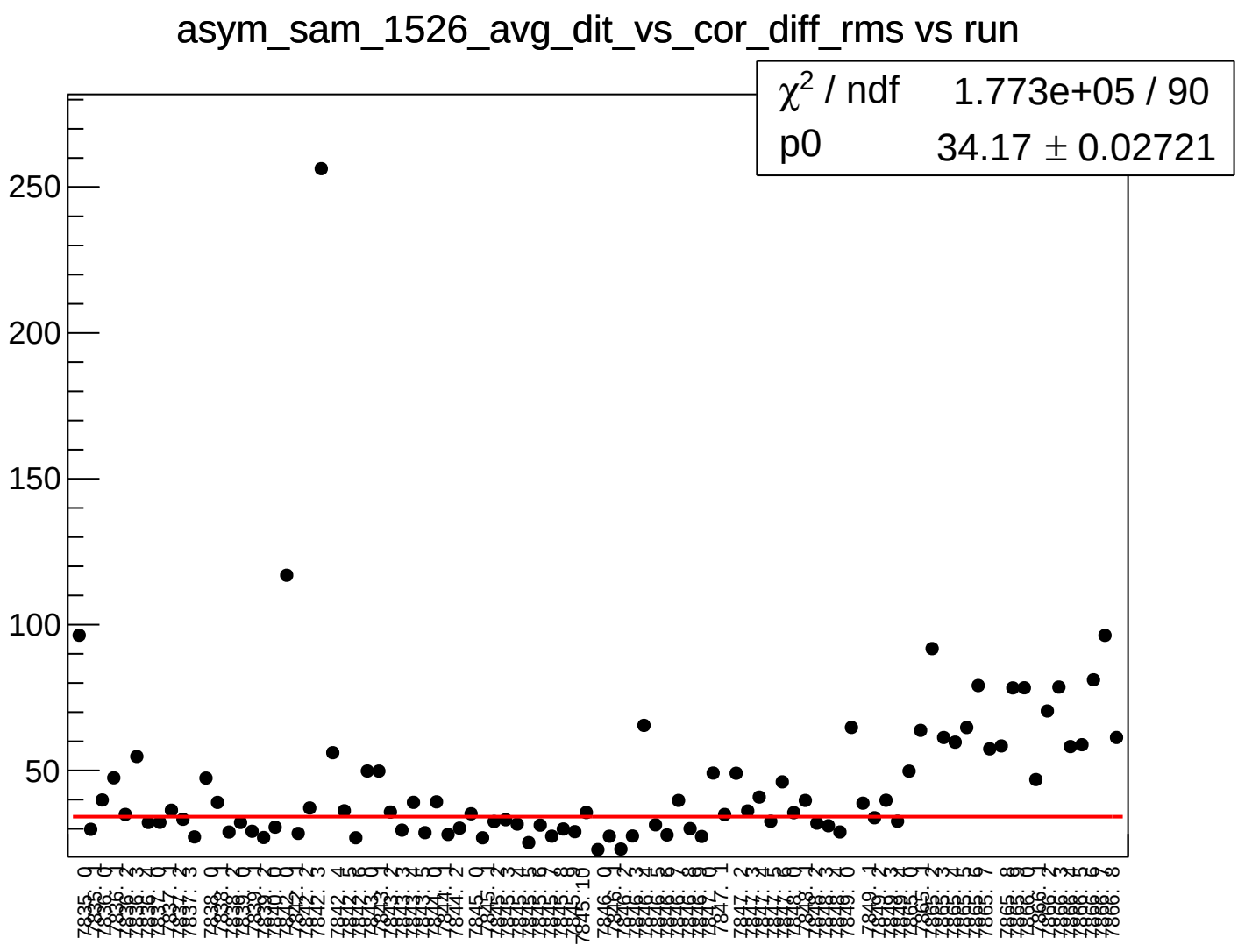

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.1 / 90
p0 1.537e−14 ± 1.778e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 91
Mean 66.64
Std Dev 42.65
3
2
1
0
−1
−2
−3

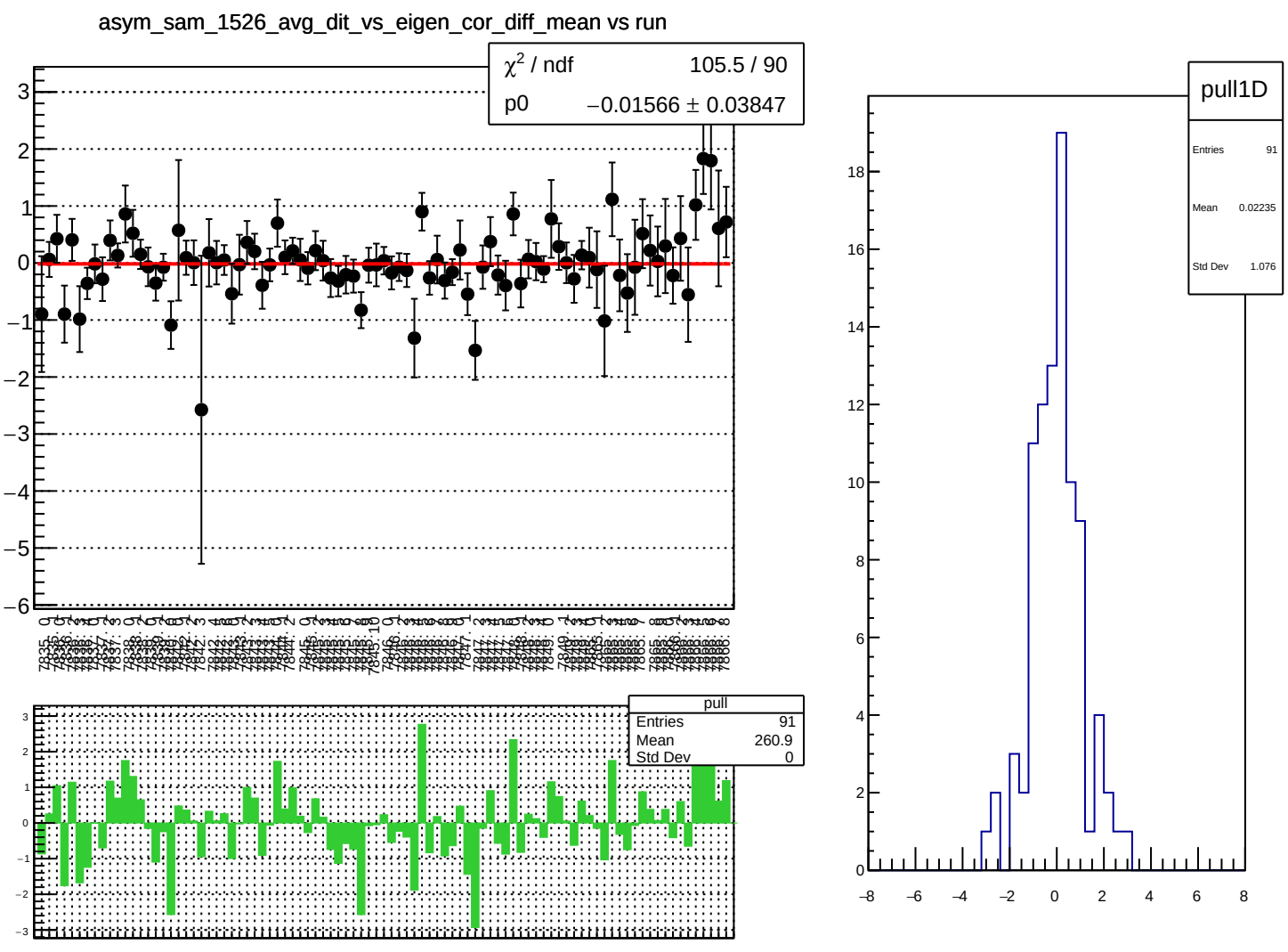

pull1D
Entries 91
Mean 0.01666
Std Dev 1.1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

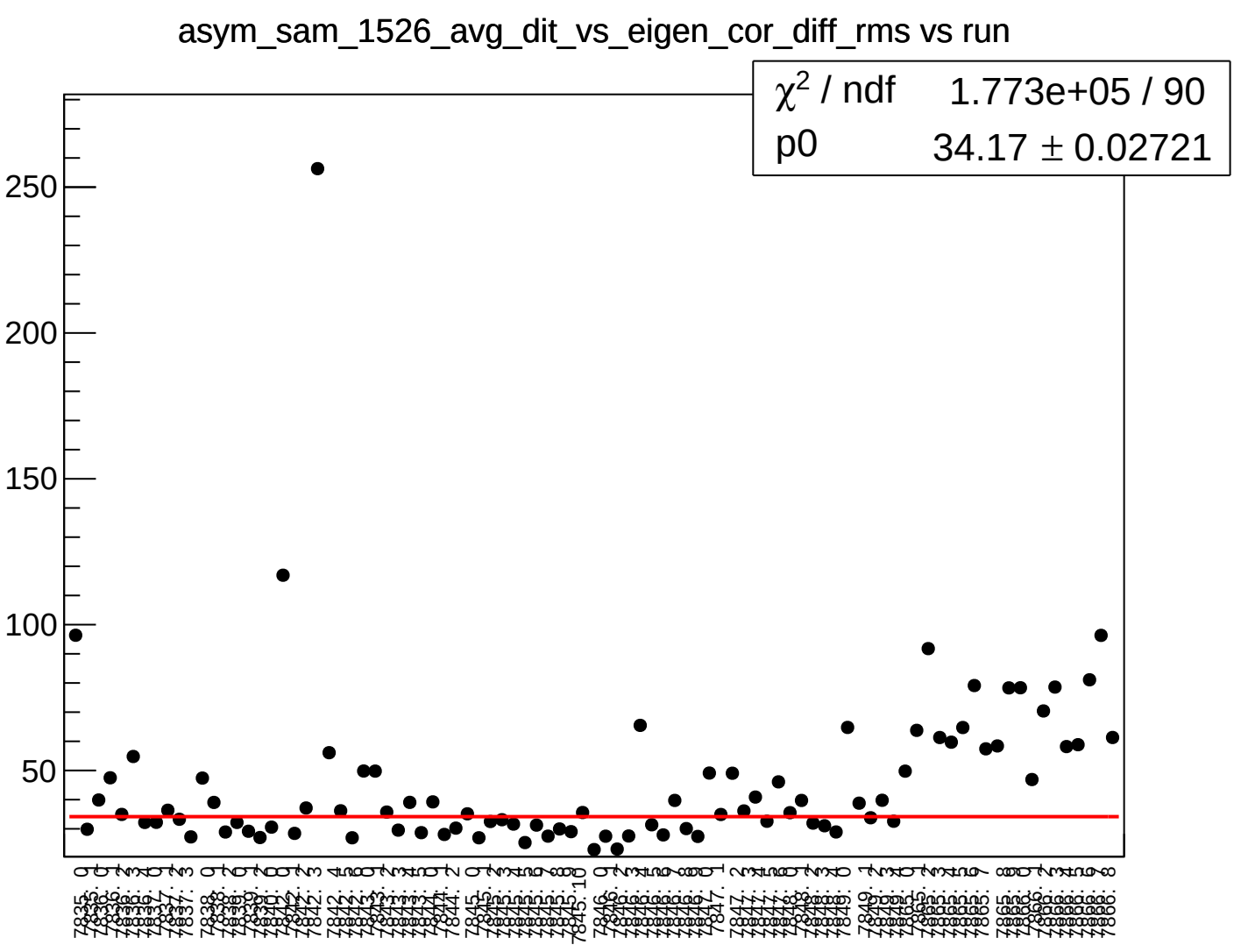

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.234e+06 / 90
p0 9.074e−11 ± 1.257e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

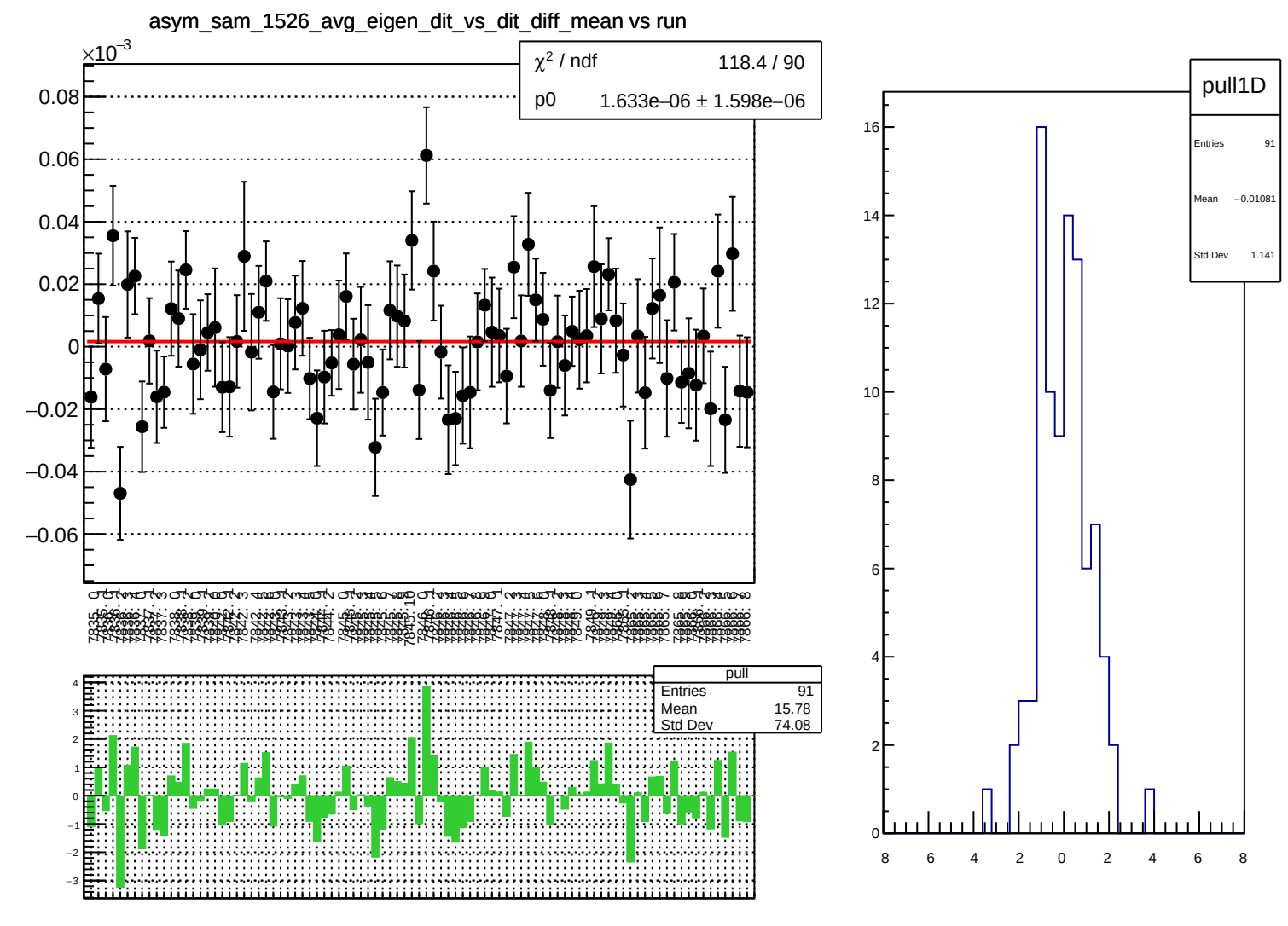

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 90
p0 −0.01566 ± 0.03847
pull
Entries 91
Mean 260.9
Std Dev 0

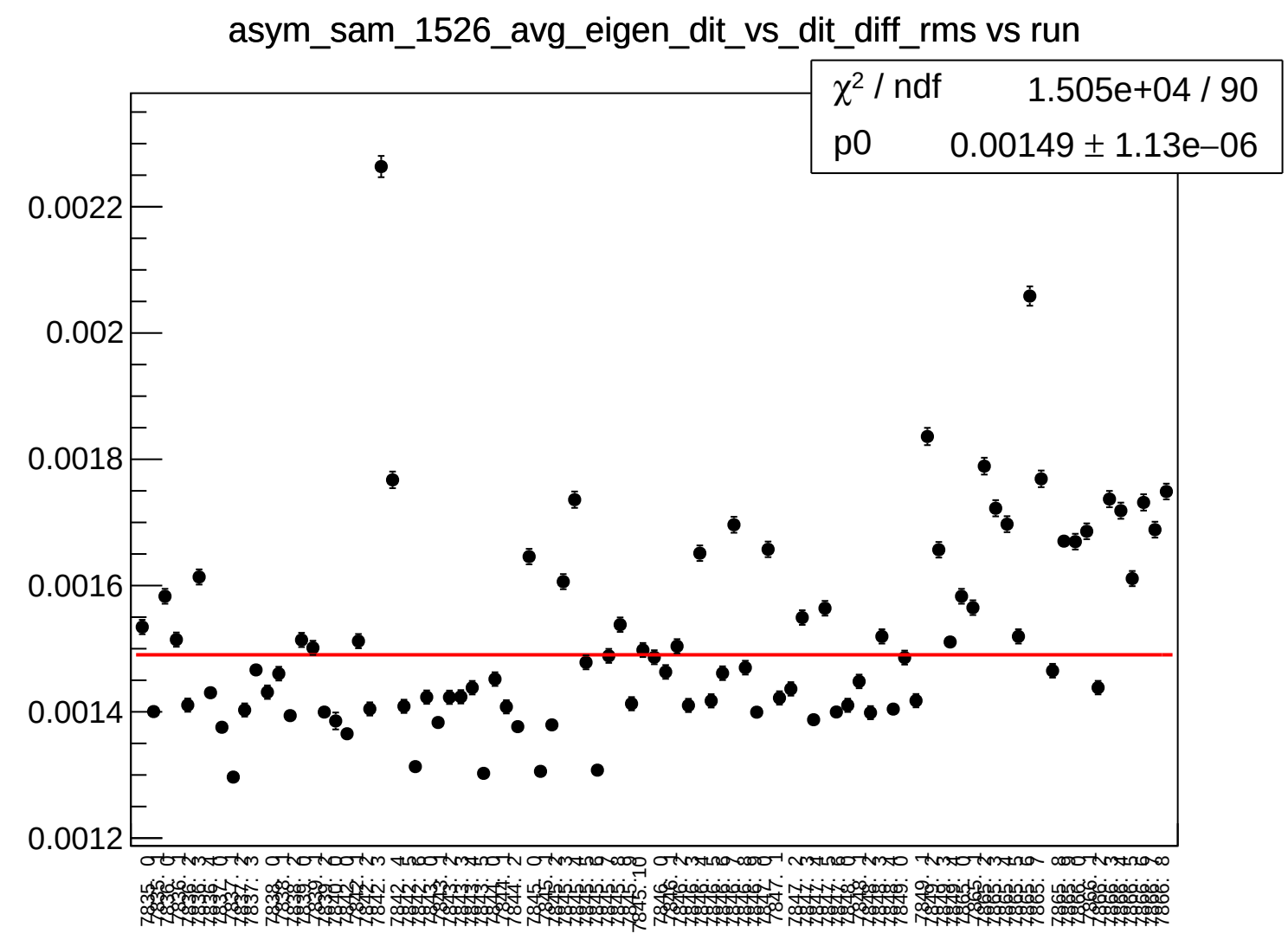

pull1D
Entries 91
Mean 0.02235
Std Dev 1.076

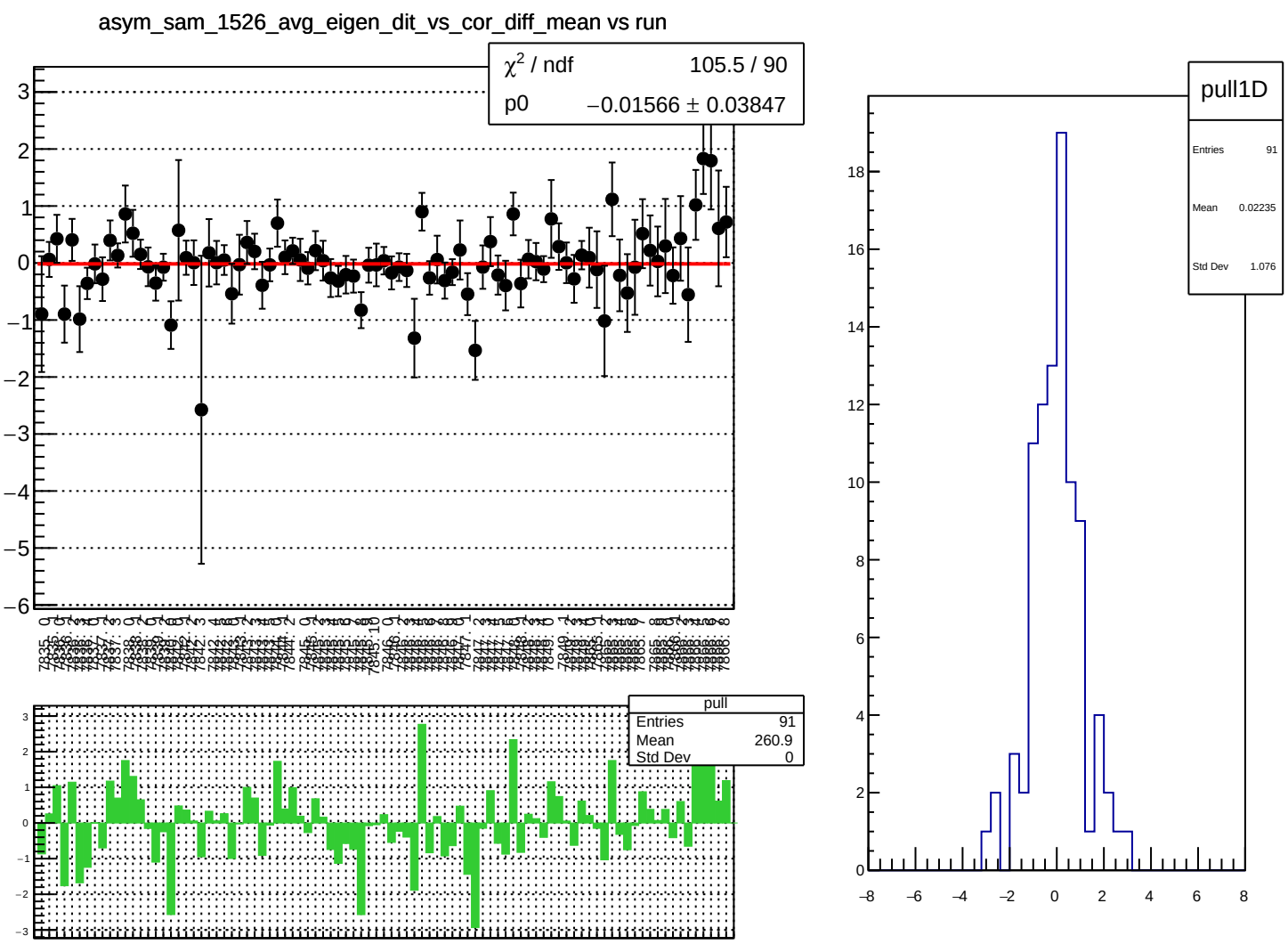

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 90
p0 34.17 ± 0.02721
250
200
150
100
50

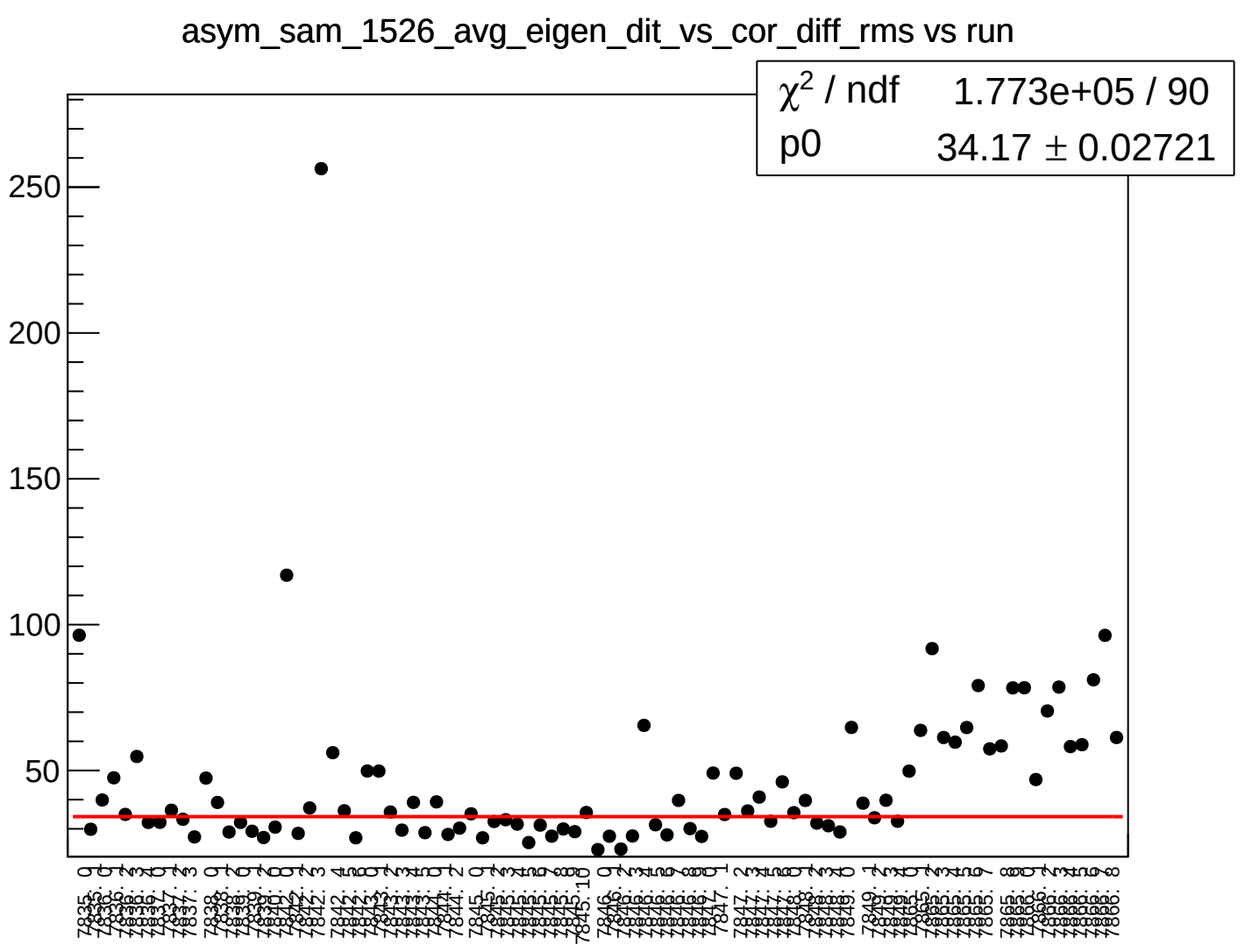

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 90
p0 −0.01566 ± 0.03847
pull
Entries 91
Mean 260.9
Std Dev 0
pull1D
Entries 91
Mean 0.02235
Std Dev 1.076

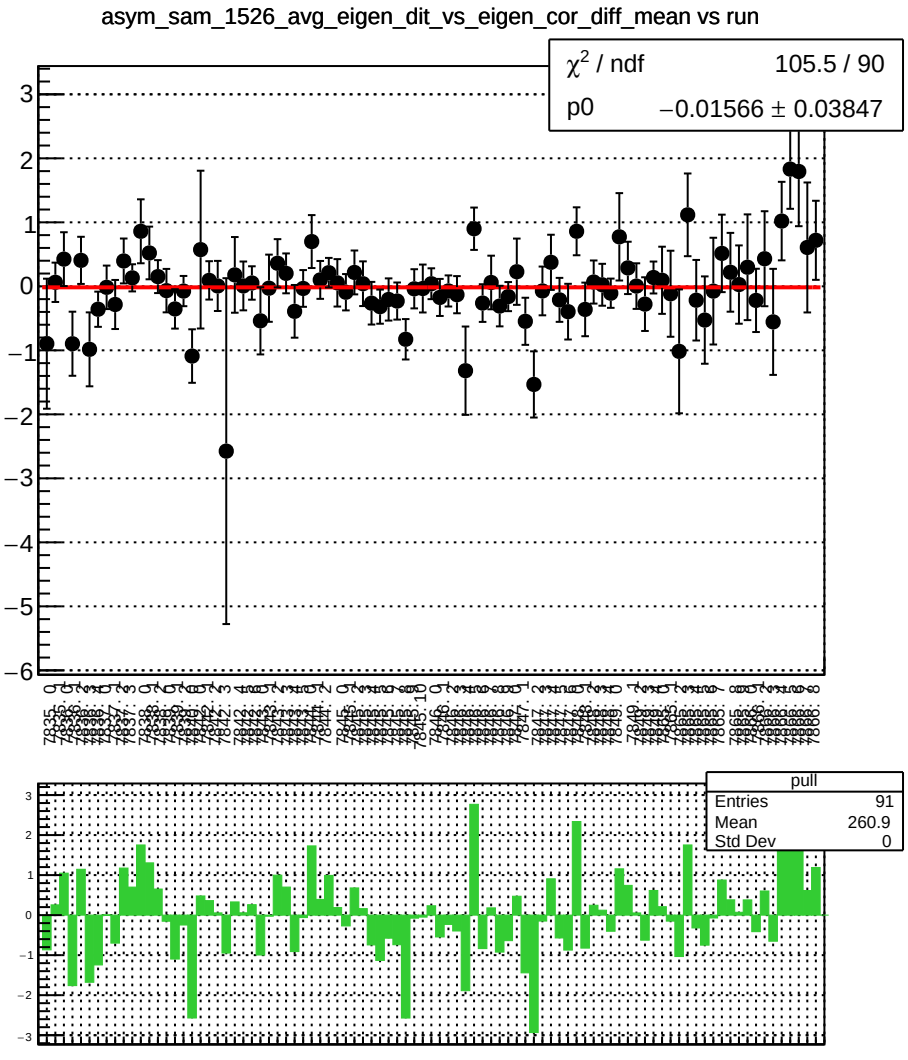

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 90
p0 34.17 ± 0.02721
250
200
150
100
50

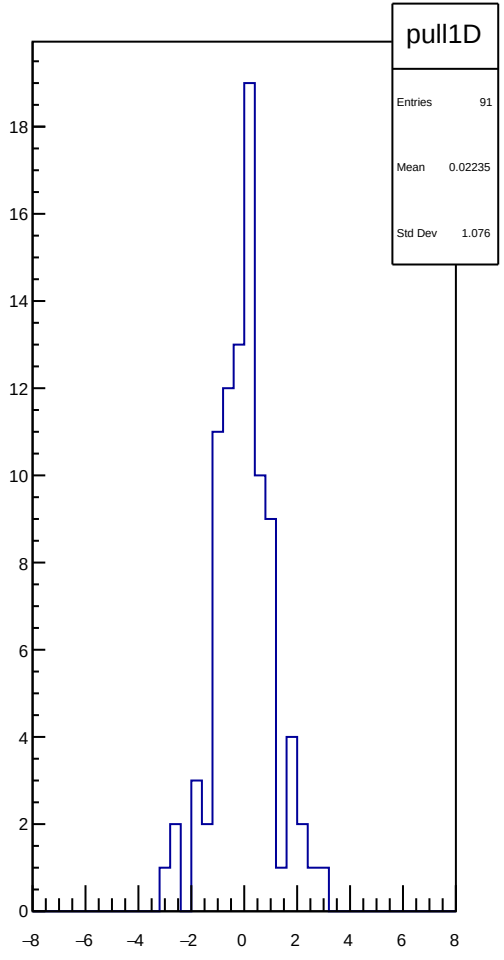

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.4 / 90
p0 1.633e−06 ± 1.598e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 15.78
Std Dev 74.08
pull1D
Entries 91
Mean −0.01081
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

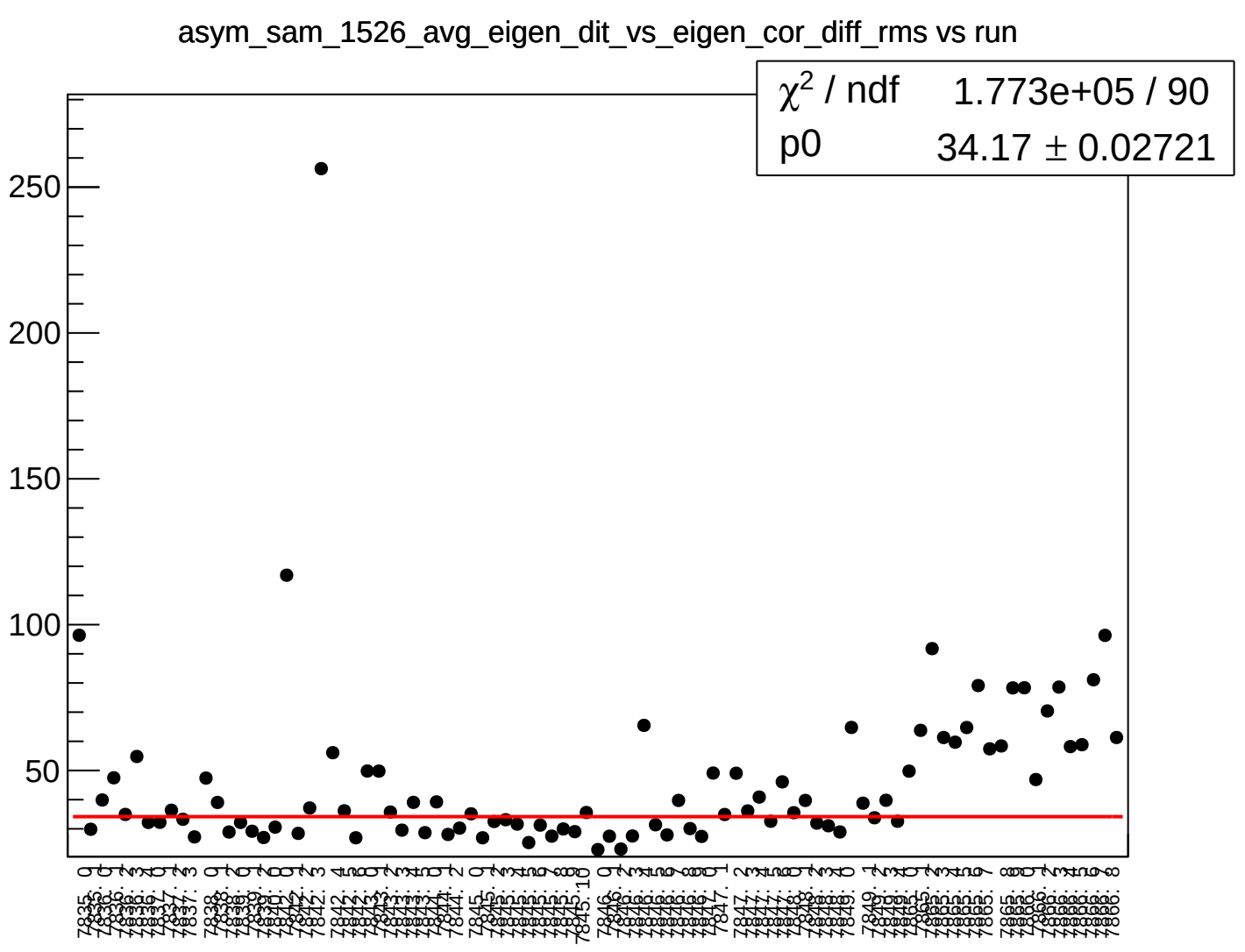

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.505e+04 / 90
p0 0.00149 ± 1.13e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

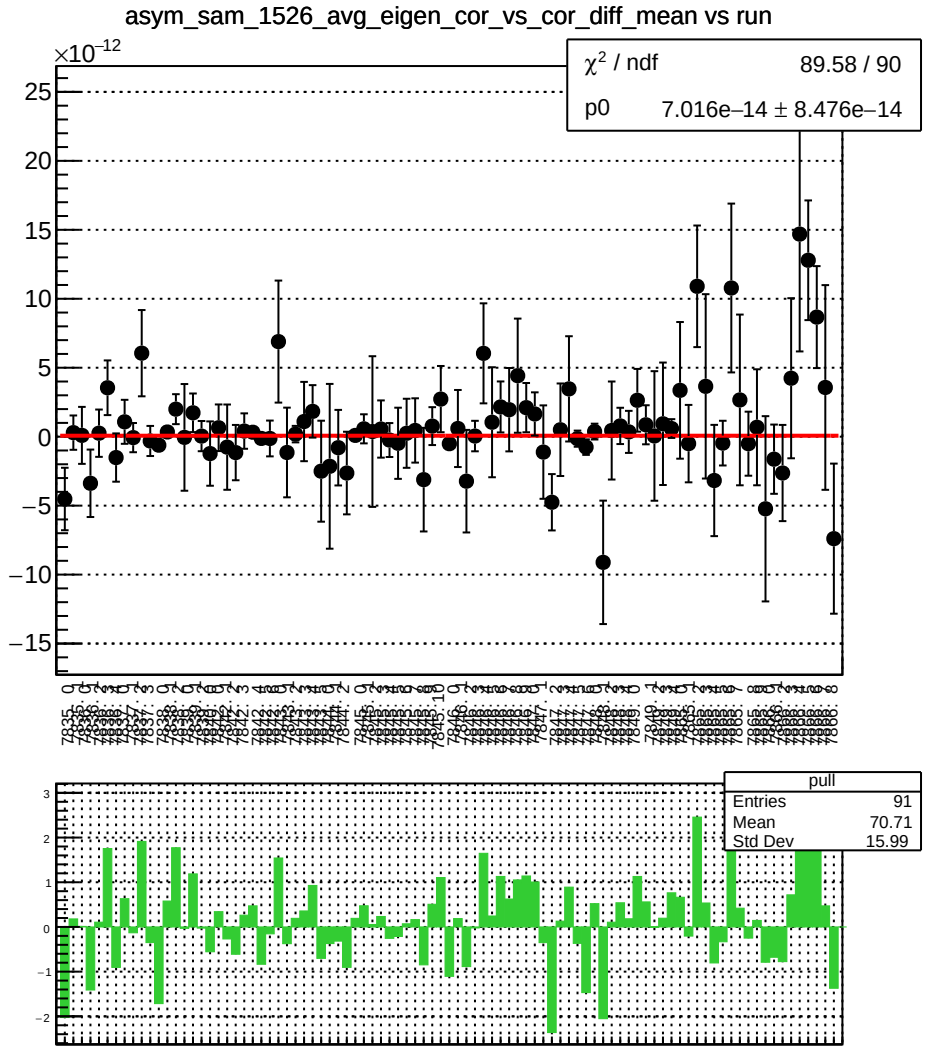

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 90
p0 −0.01566 ± 0.03847
pull
Entries 91
Mean 260.9
Std Dev 0
pull1D
Entries 91
Mean 0.02235
Std Dev 1.076

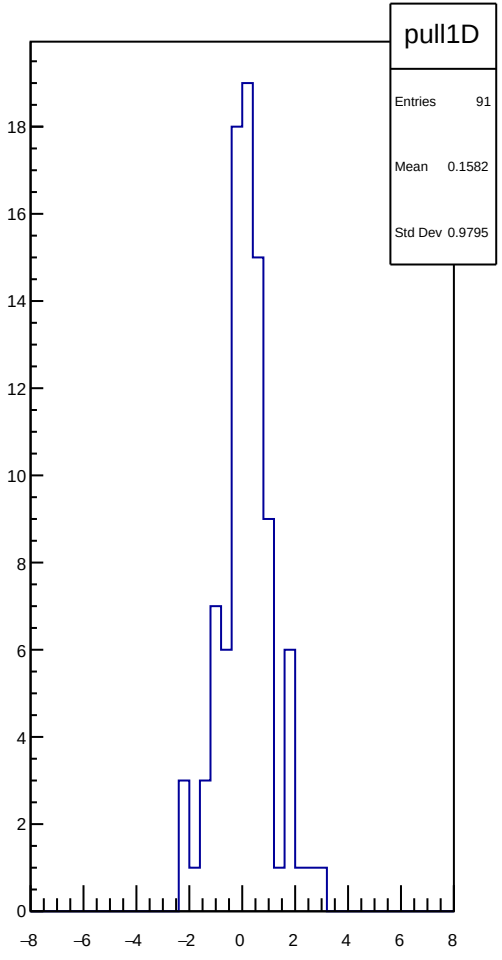

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 90
p0 34.17 ± 0.02721
250
200
150
100
50

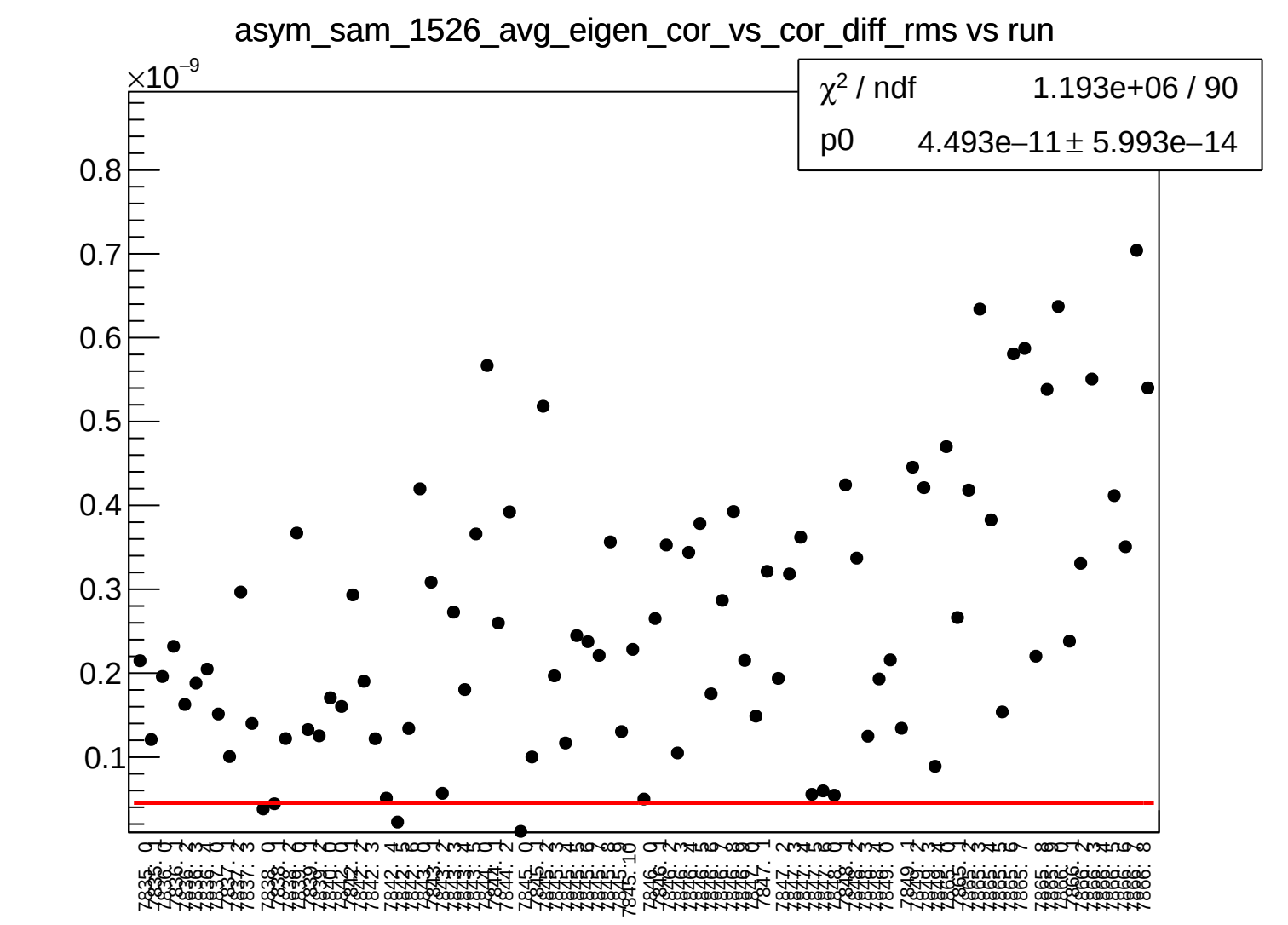

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 90
p0 −0.01566 ± 0.03847
pull
Entries 91
Mean 260.9
Std Dev 0

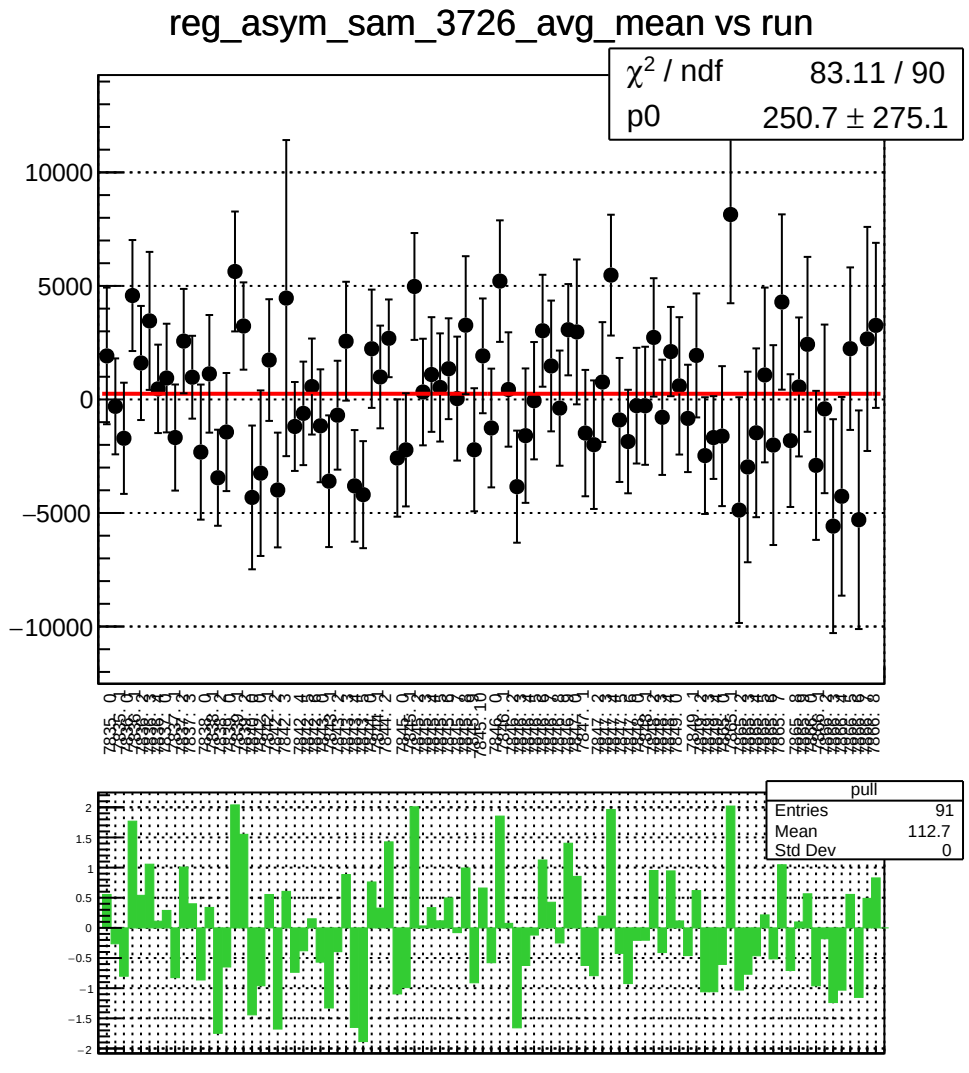

pull1D
Entries 91
Mean 0.02235
Std Dev 1.076

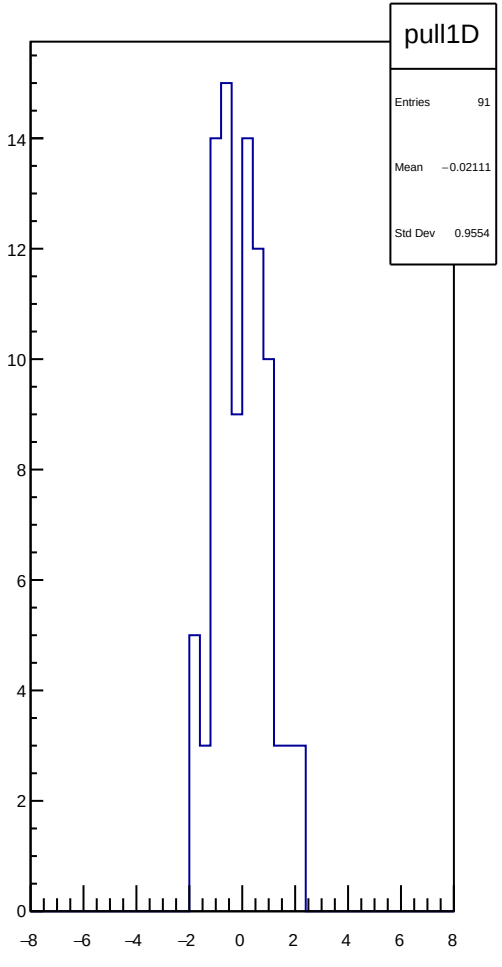

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 90
p0 34.17 ± 0.02721
250
200
150
100
50

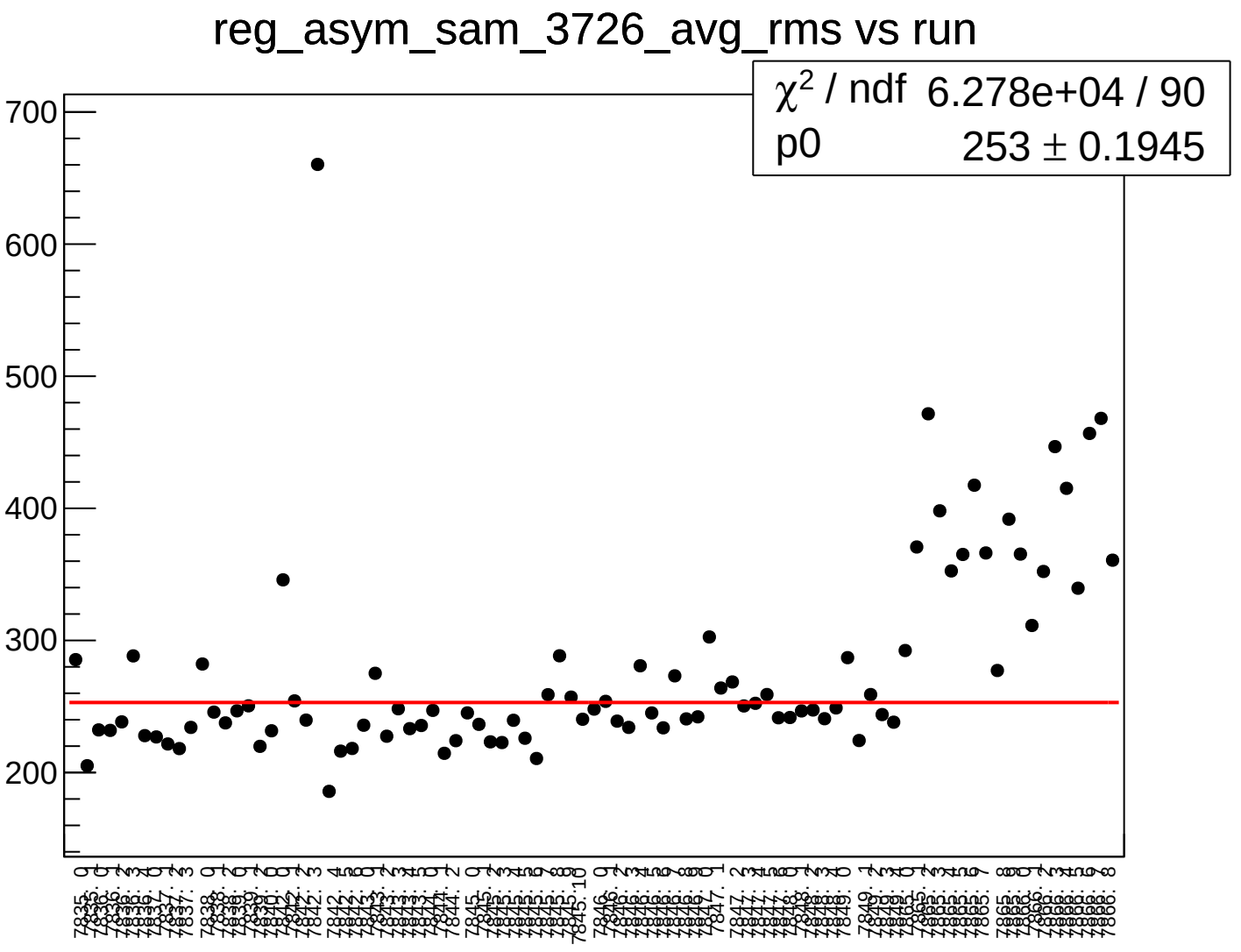

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.58 / 90
p0 7.016e−14 ± 8.476e−14
pull
Entries 91
Mean 70.71
Std Dev 15.99

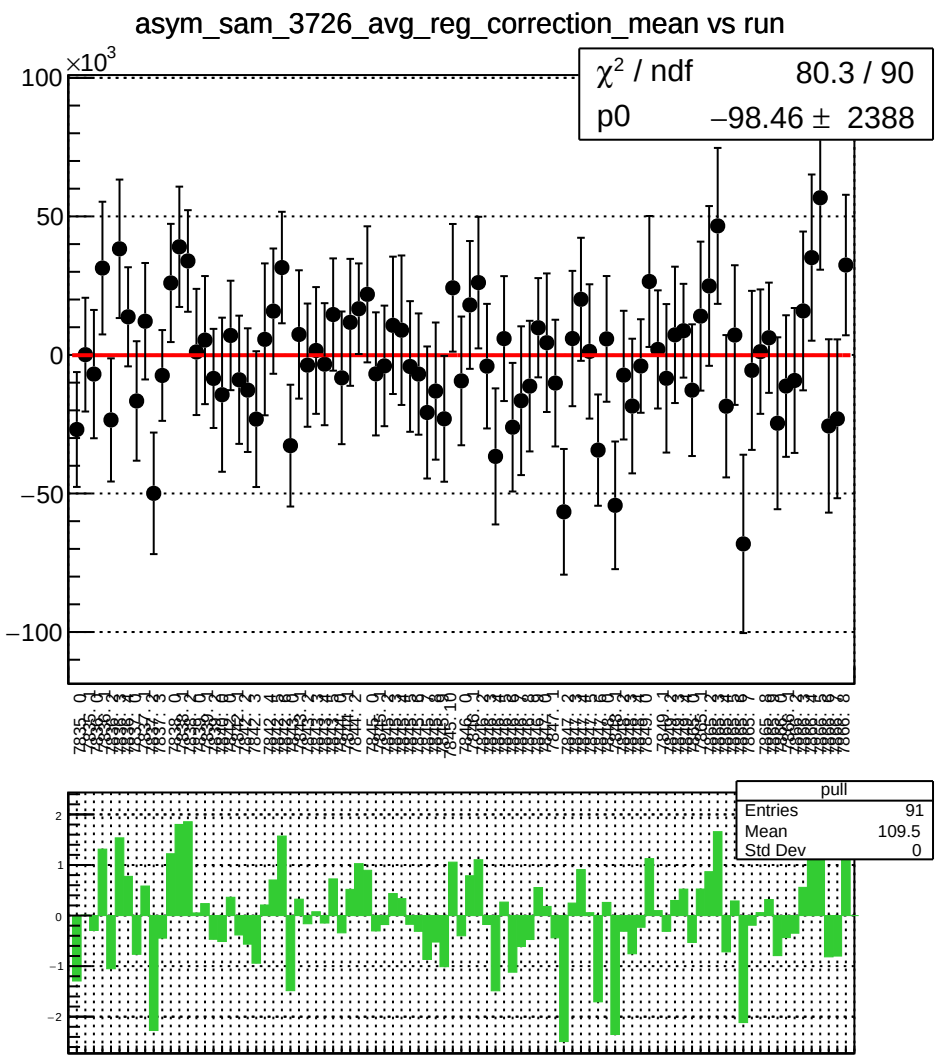

pull1D
Entries 91
Mean 0.1582
Std Dev 0.9795

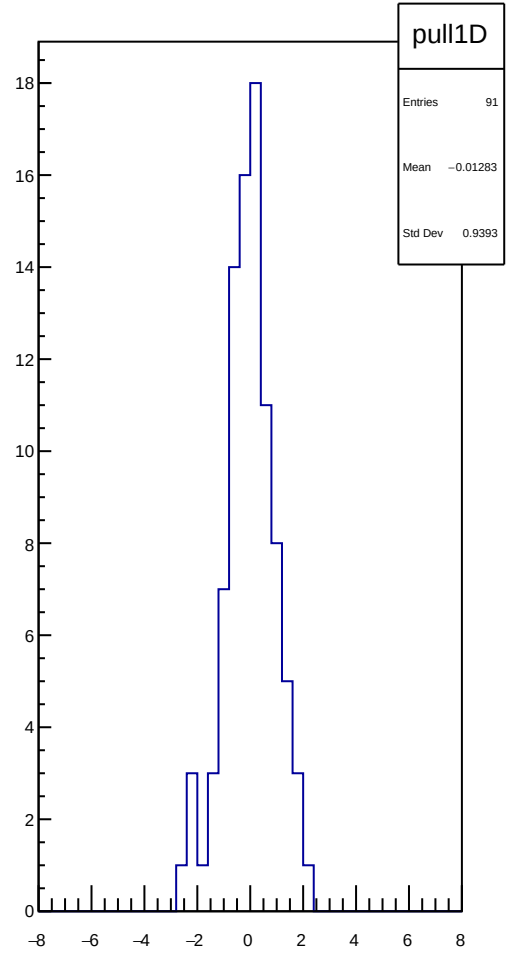

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.193e+06 / 90
p0 4.493e−11 ± 5.993e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

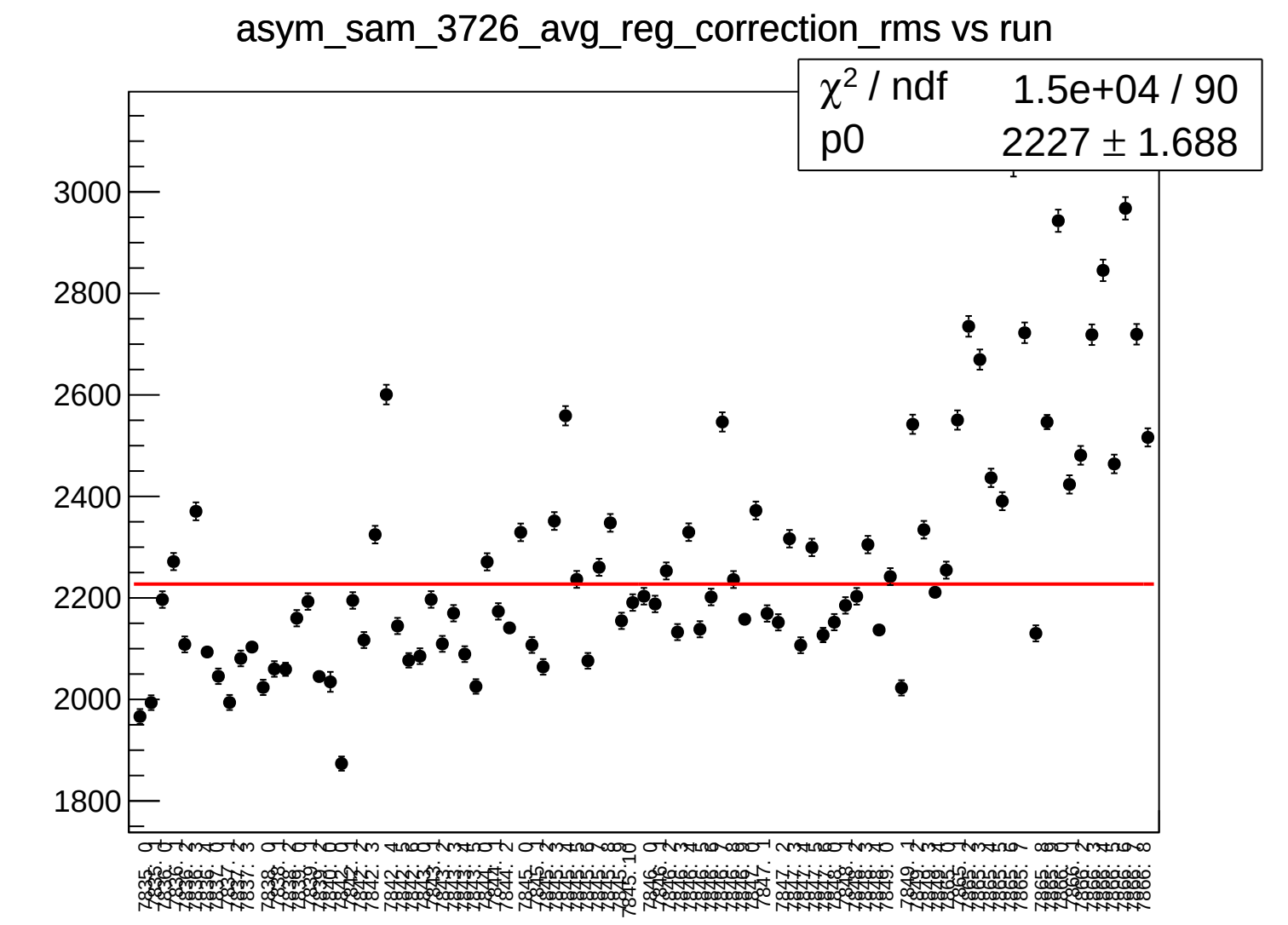

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 83.11 / 90
p0 250.7 ± 275.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 112.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

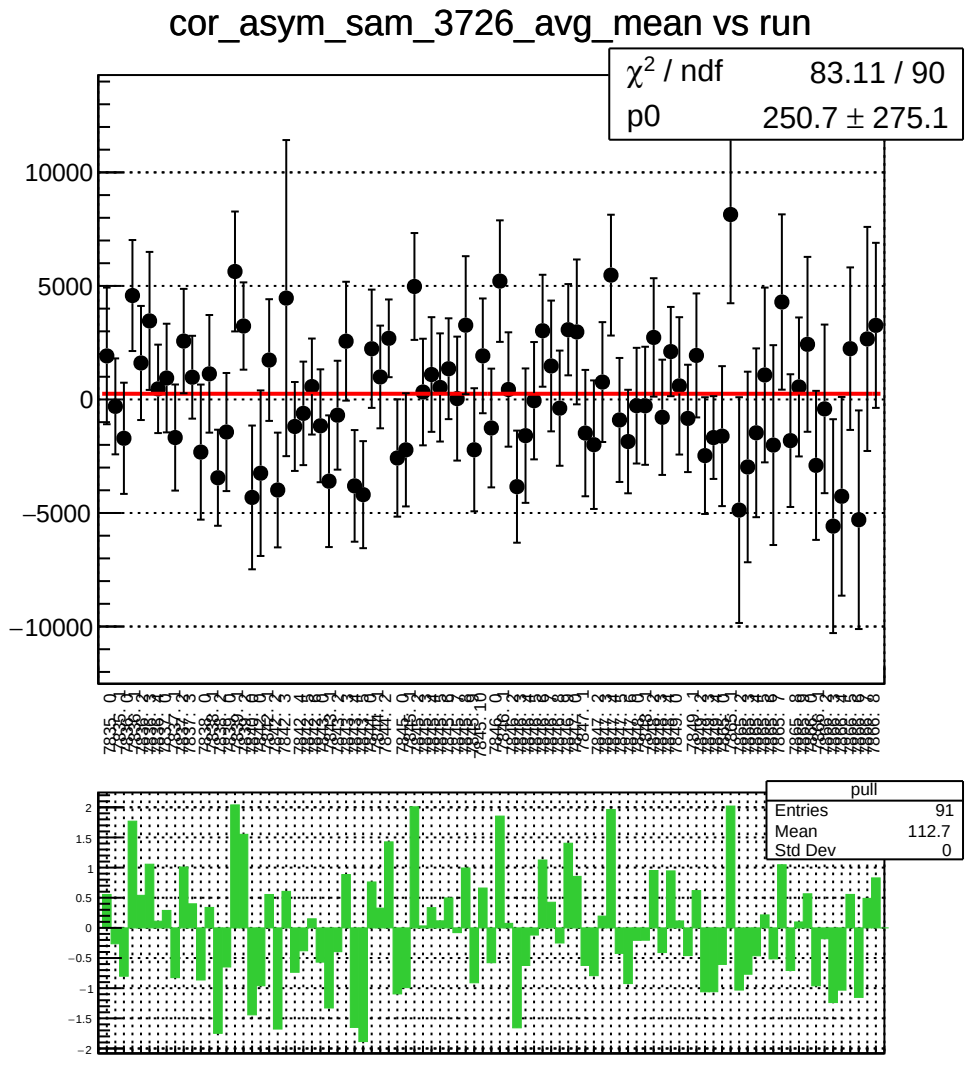

pull1D
Entries 91
Mean −0.02111
Std Dev 0.9554
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

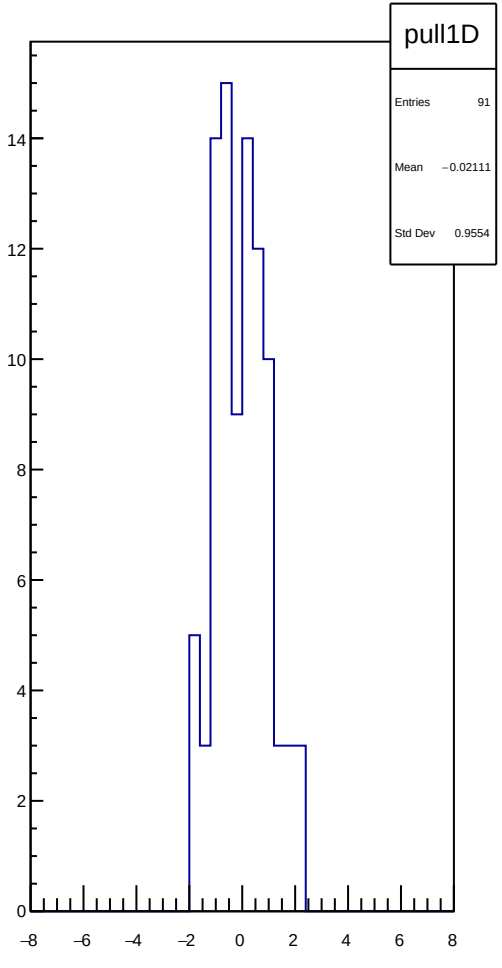

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6.278e+04 / 90
p0 253 ± 0.1945
700
600
500
400
300
200

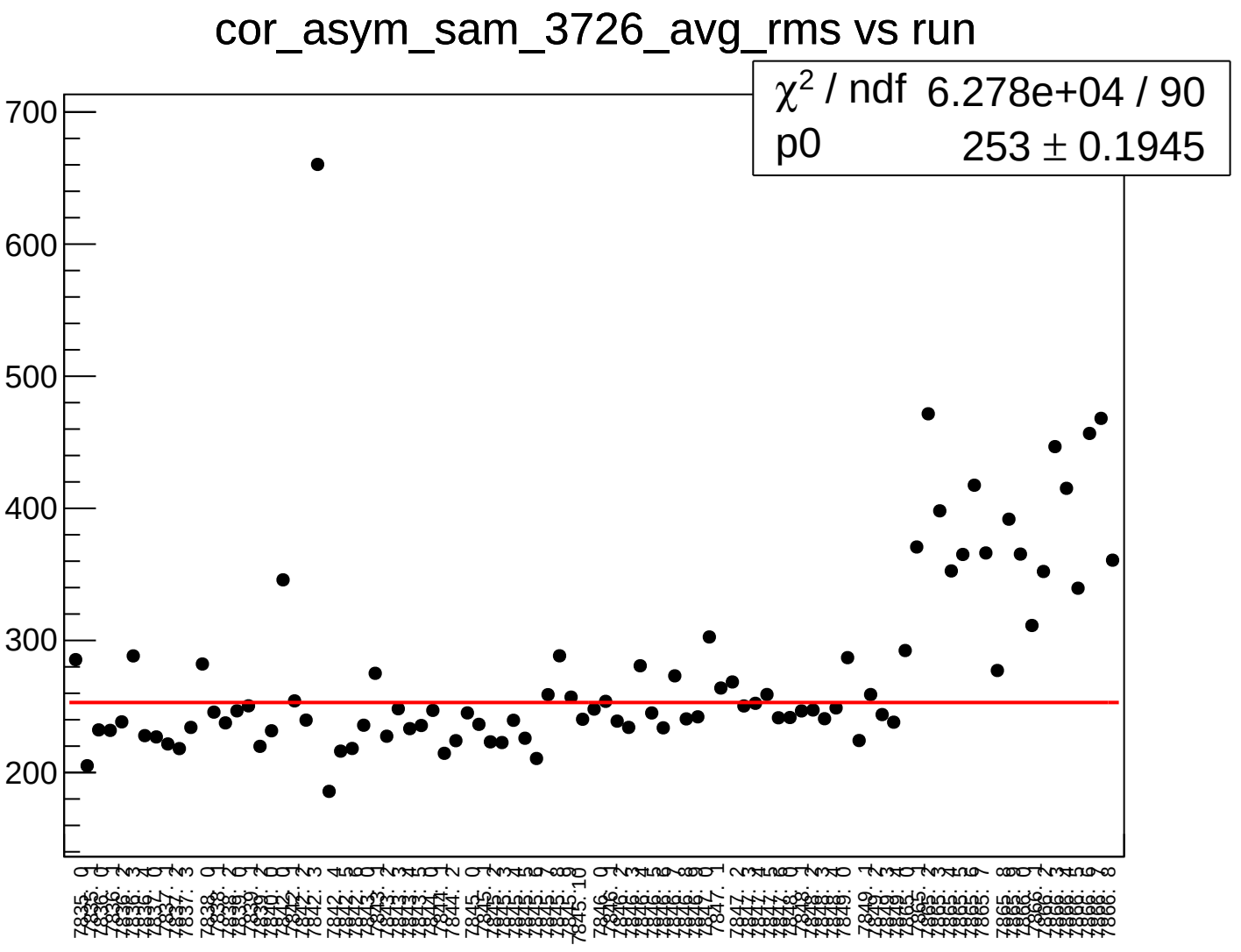

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 80.3 / 90
p0 −98.46 ± 2388
pull
Entries 91
Mean 109.5
Std Dev 0

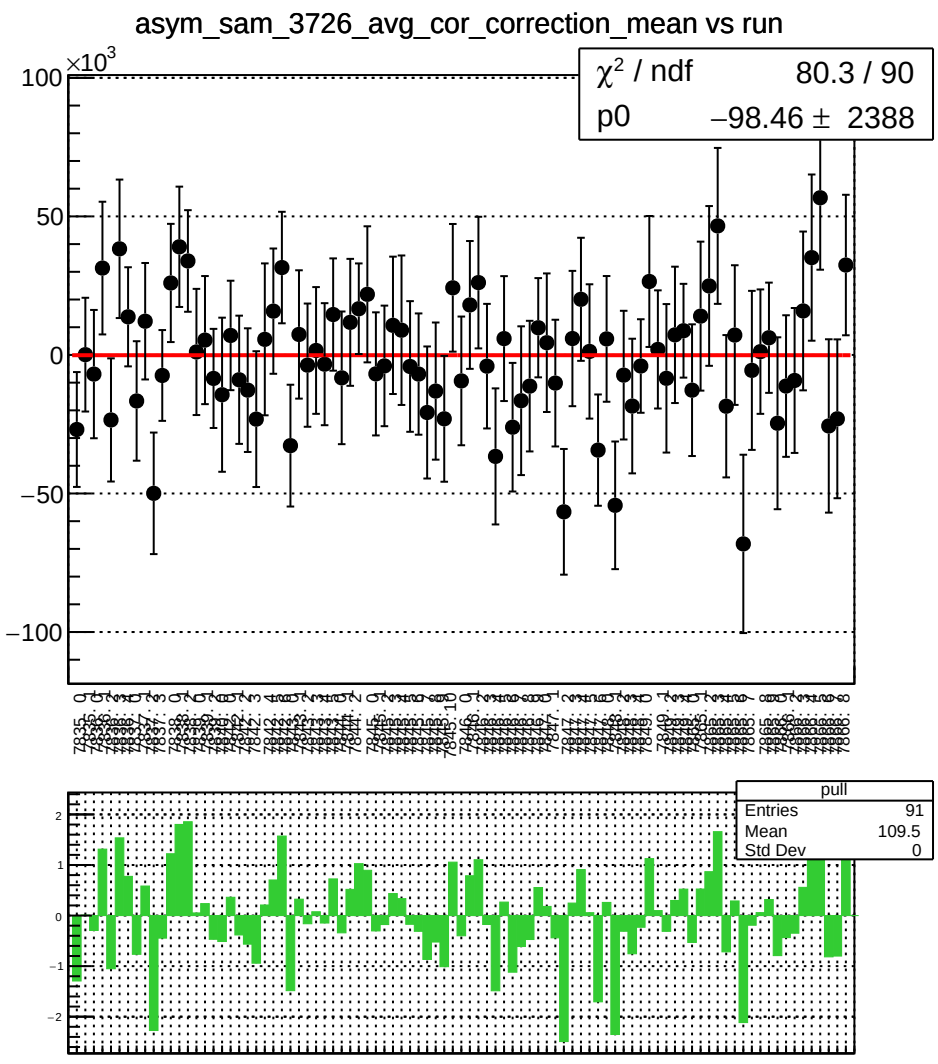

pull1D
Entries 91
Mean −0.01283
Std Dev 0.9393

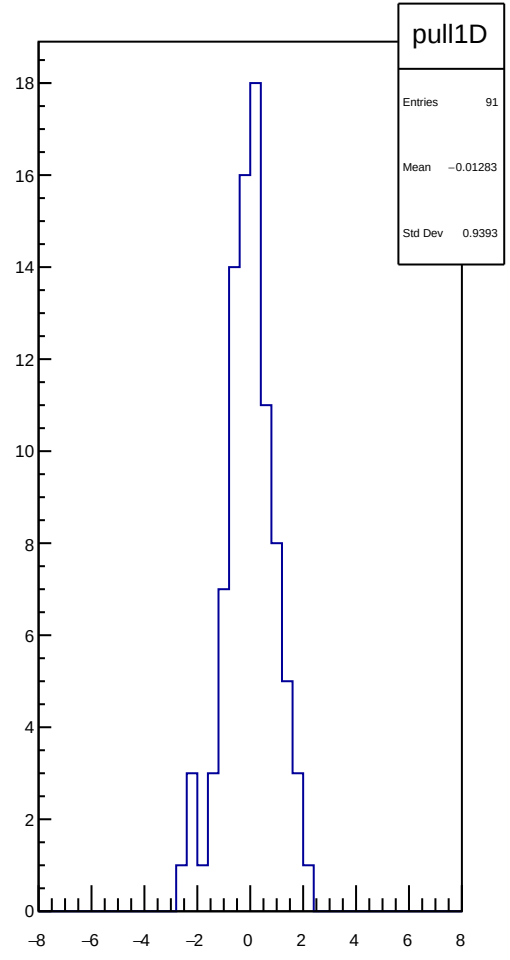

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.5e+04 / 90
p0 2227 ± 1.688
3000
2800
2600
2400
2200
2000
1800

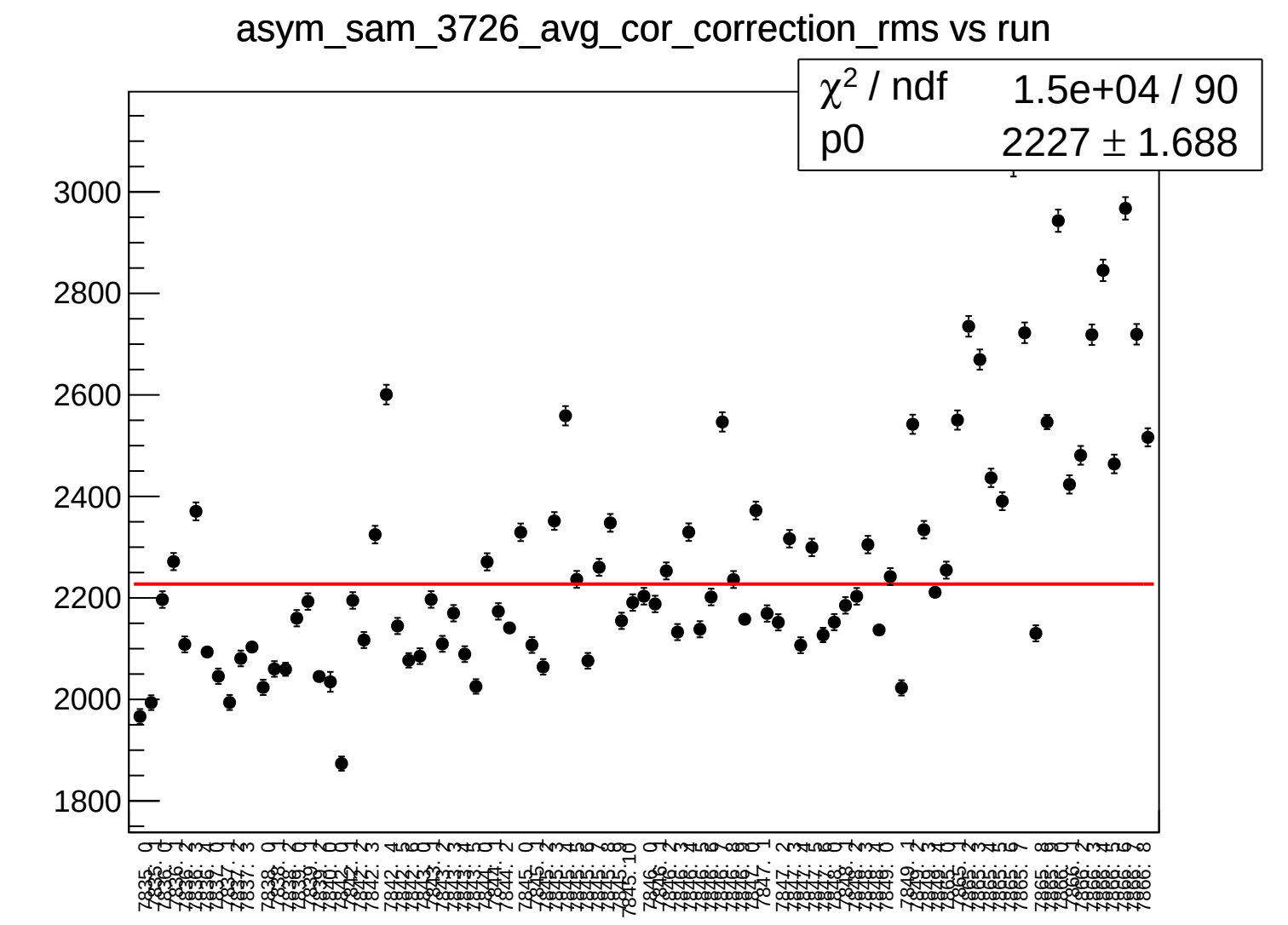

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 83.11 / 90
p0 250.7 ± 275.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 112.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

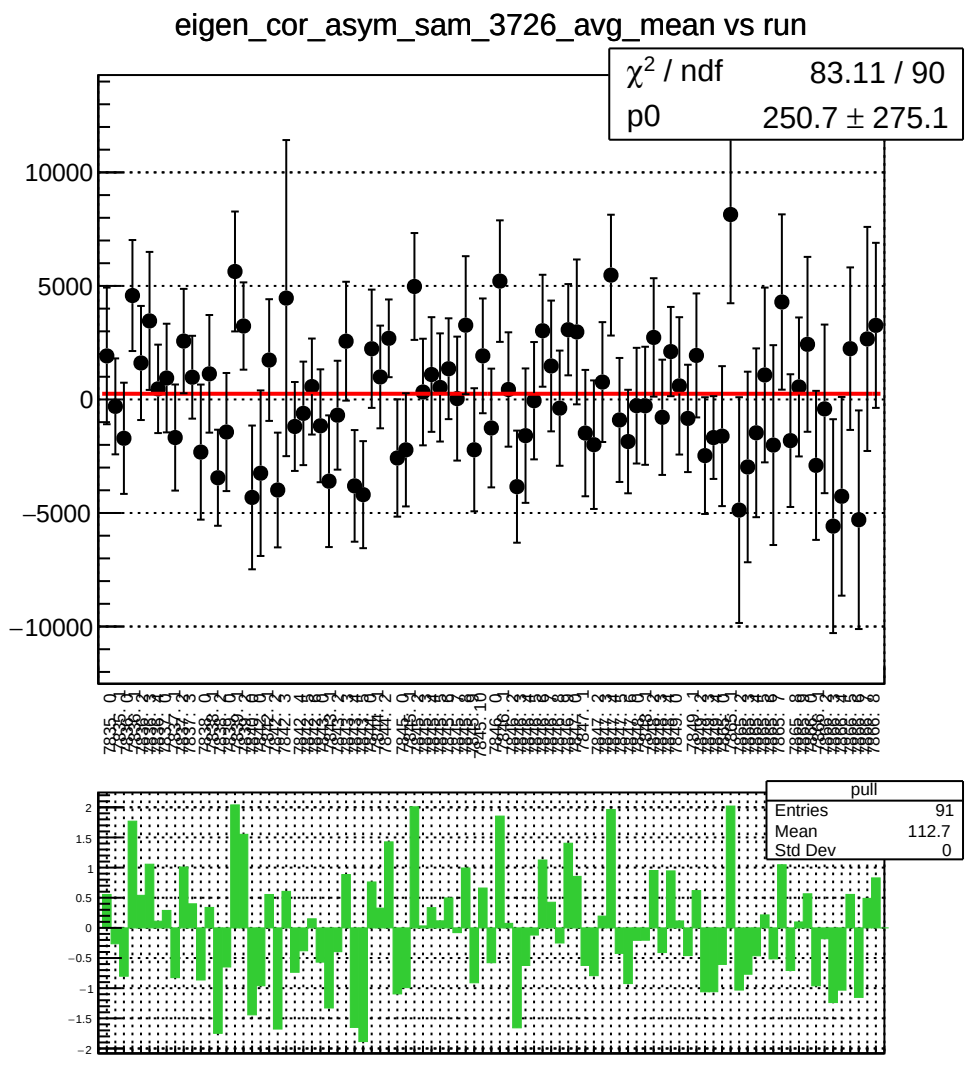

pull1D
Entries 91
Mean −0.02111
Std Dev 0.9554
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

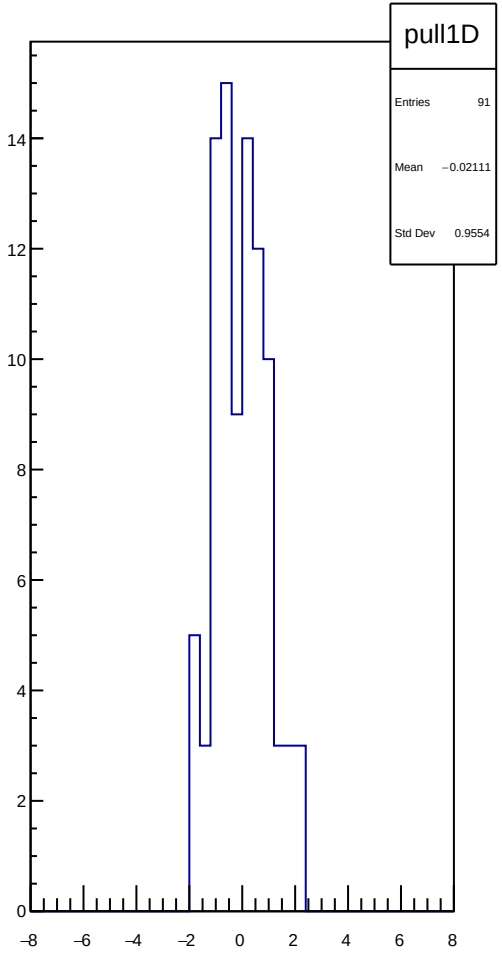

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 6.278e+04 / 90
p0 253 ± 0.1945
700
600
500
400
300
200

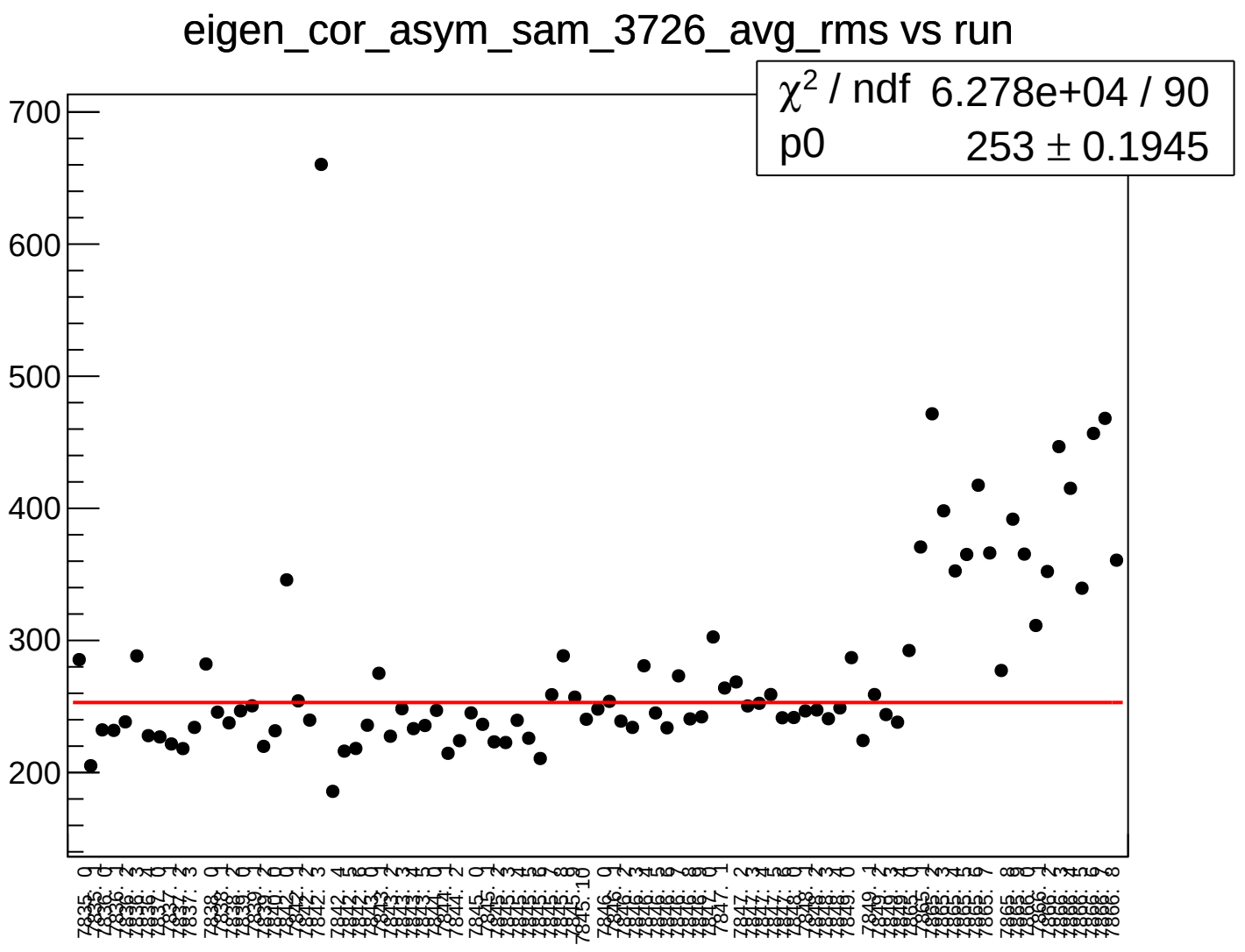

asym_sam_3726_avg_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 80.3 / 90
p0 −98.46 ± 2388
pull
Entries 91
Mean 109.5
Std Dev 0
2
1
0
−1
−2

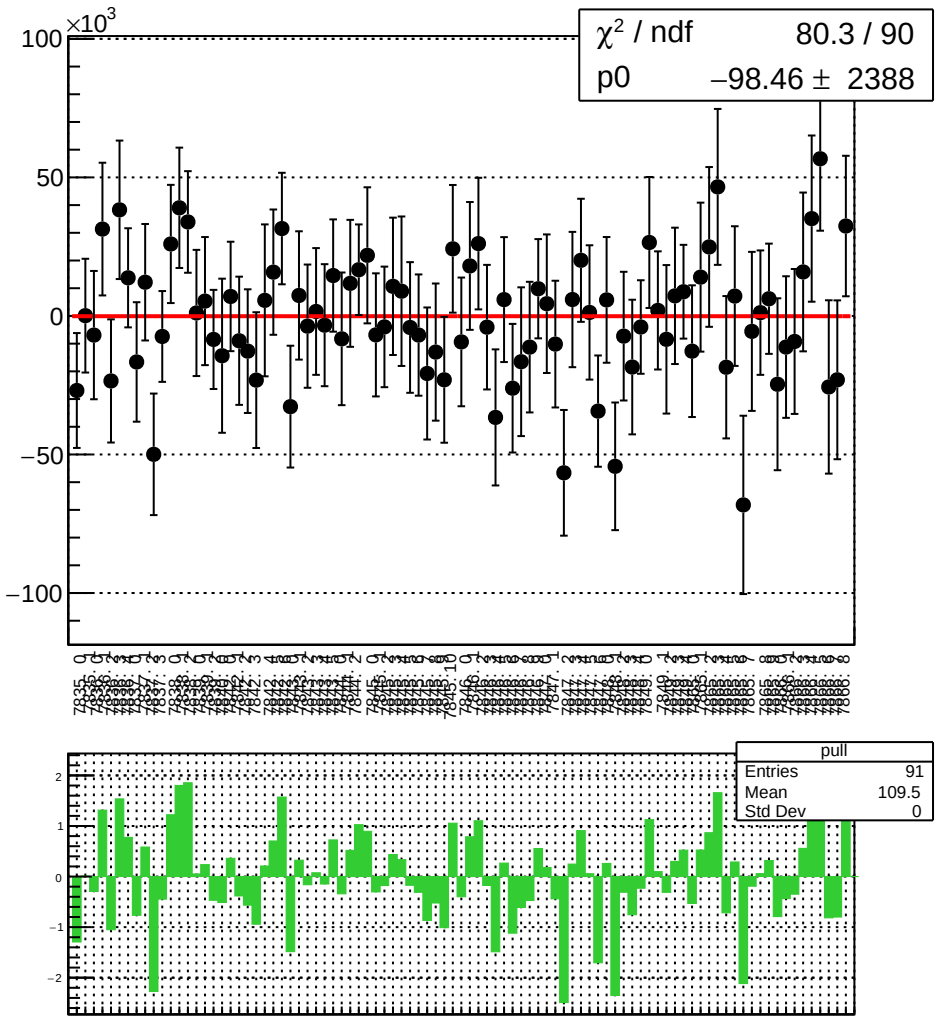

pull1D
Entries 91
Mean −0.01283
Std Dev 0.9393
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

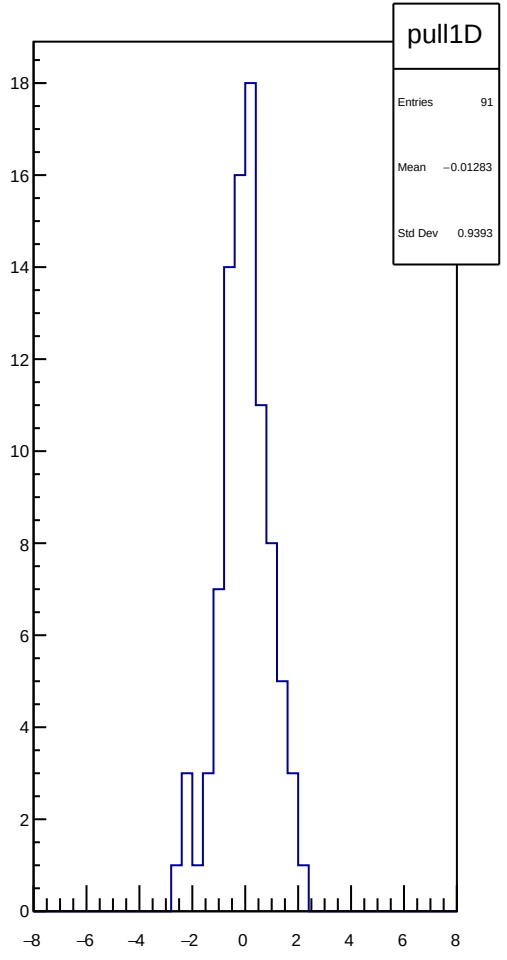

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 90
p0 2227 ± 1.688
3000
2800
2600
2400
2200
2000
1800

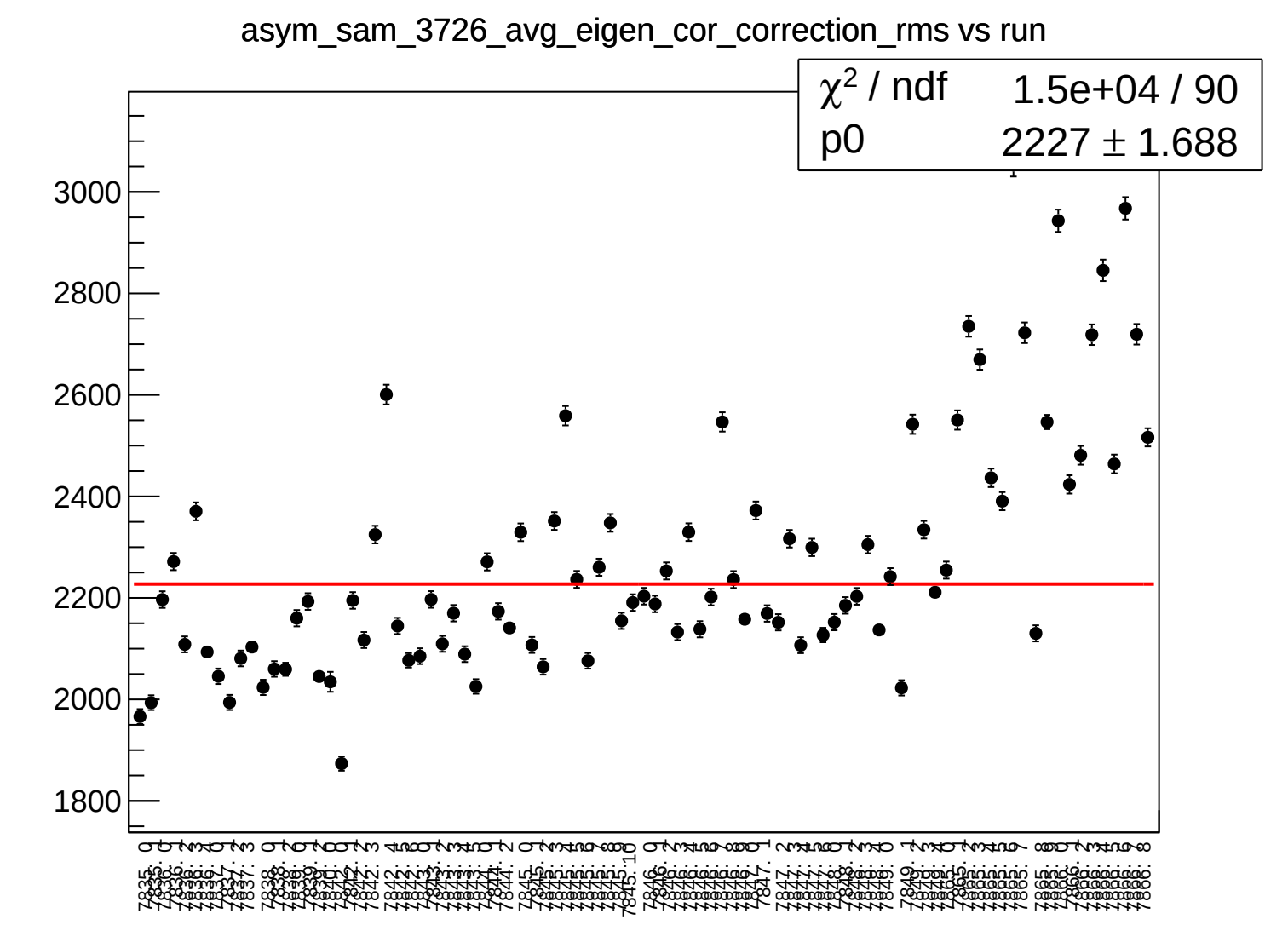

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 83.11 / 90
p0 250.7 ± 275.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 112.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

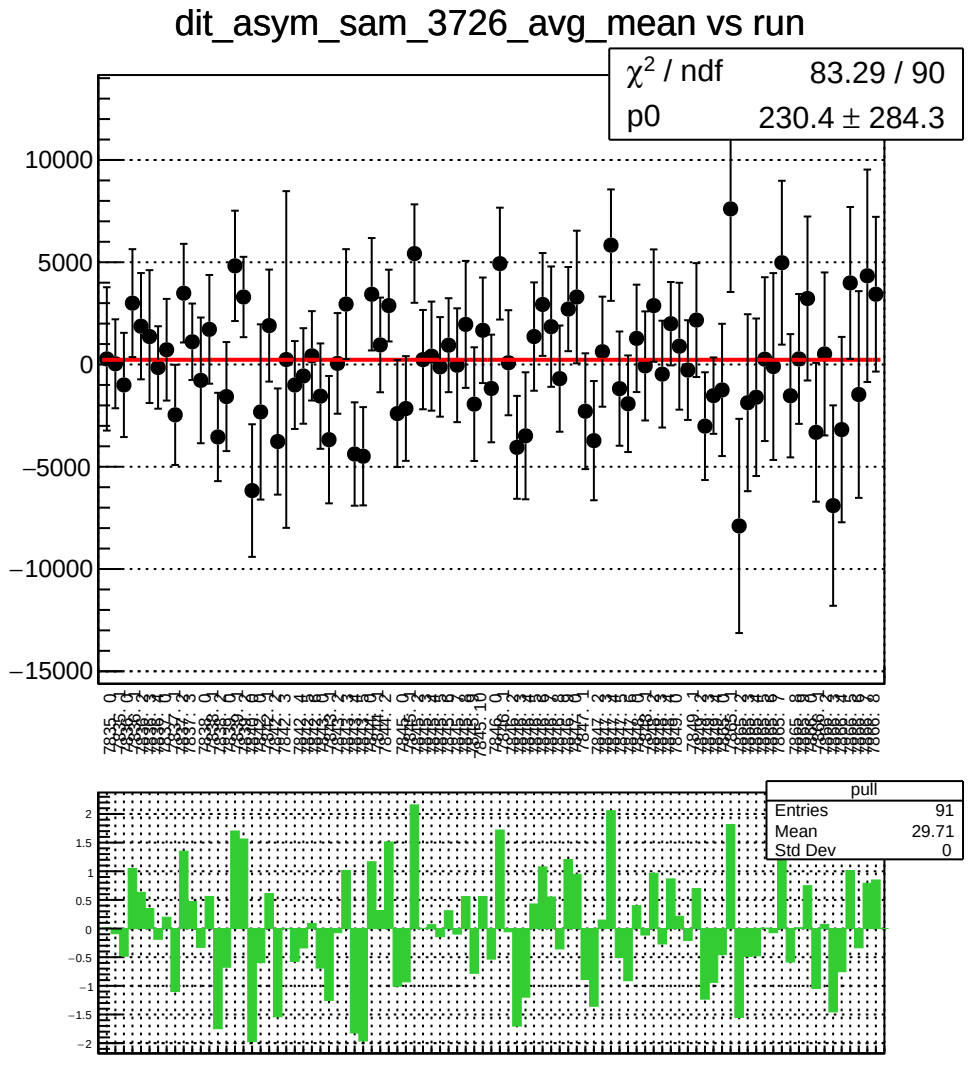

pull1D
Entries 91
Mean −0.02111
Std Dev 0.9554
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

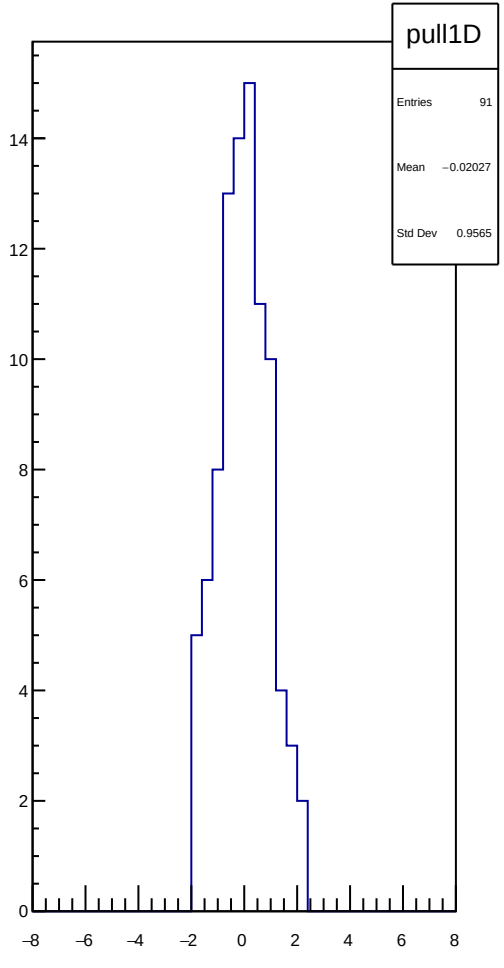

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 6.278e+04 / 90
p0 253 ± 0.1945
700
600
500
400
300
200

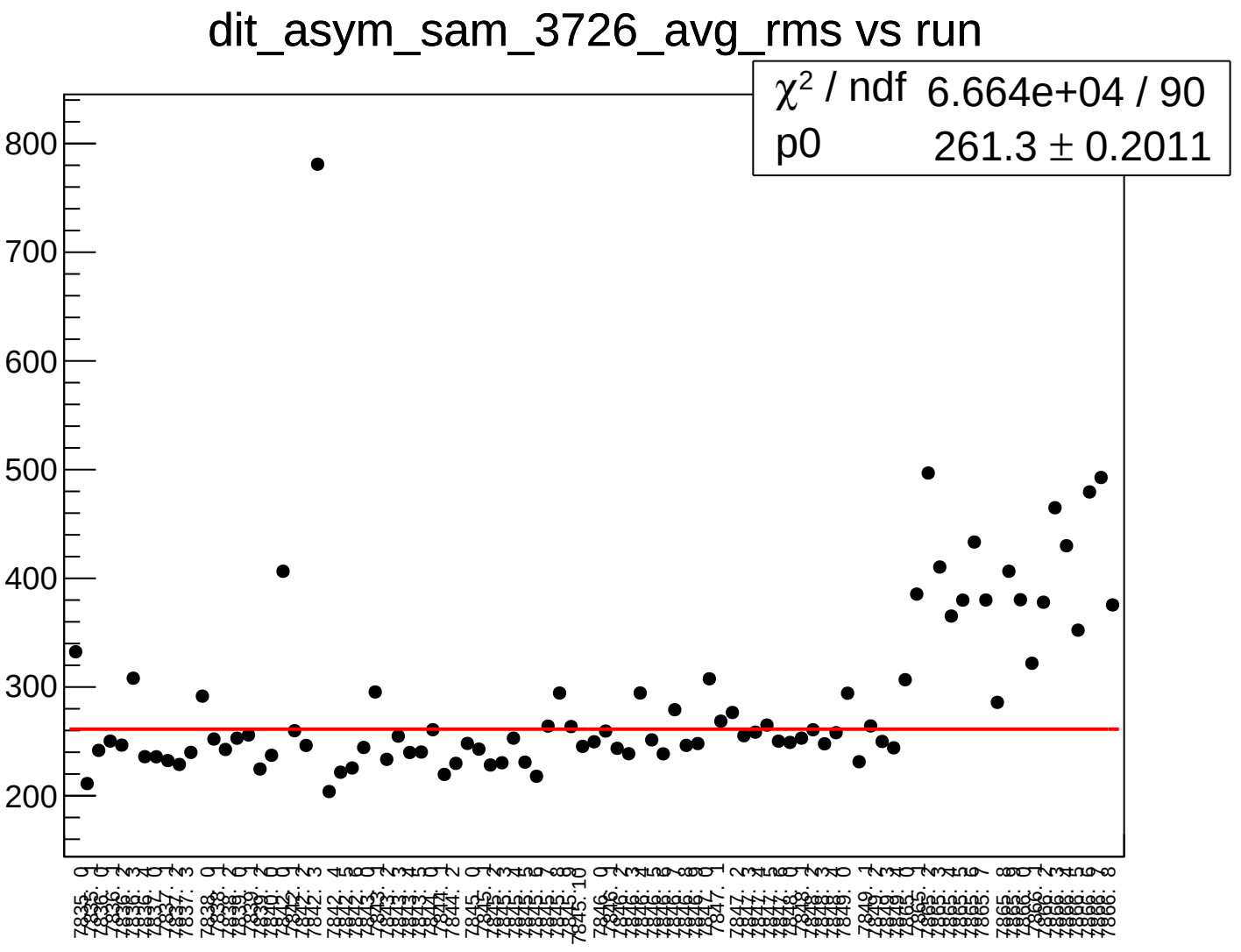

asym_sam_3726_avg_eigen_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 80.3 / 90
p0 −98.46 ± 2388
pull
Entries 91
Mean 109.5
Std Dev 0
2
1
0
−1
−2

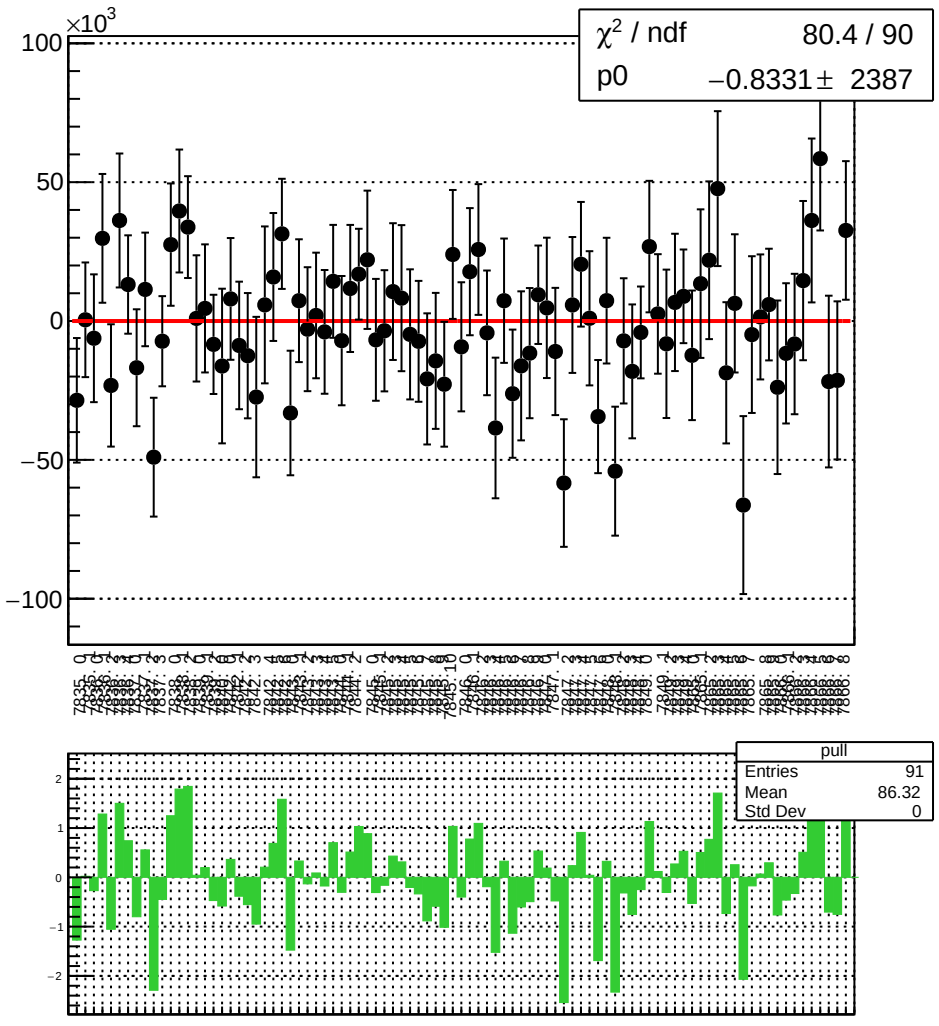

pull1D
Entries 91
Mean −0.01283
Std Dev 0.9393
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

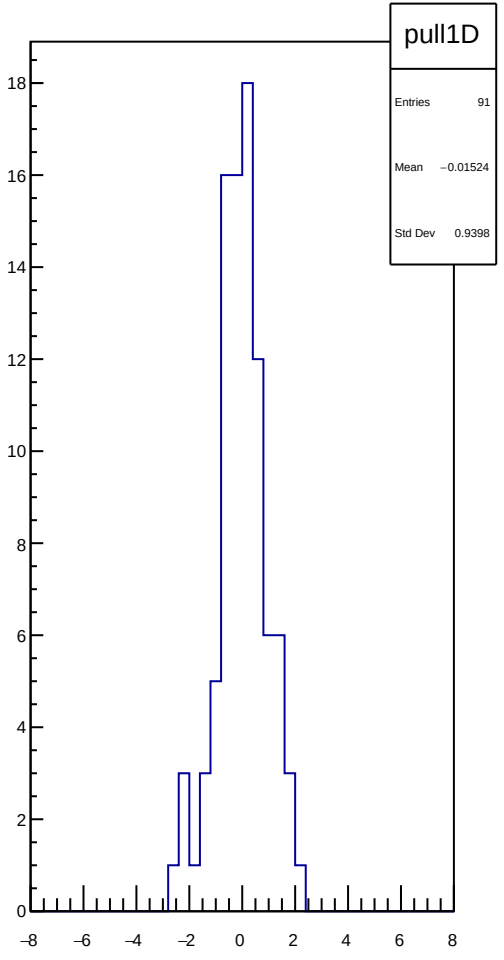

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 90
p0 2227 ± 1.688
3000
2800
2600
2400
2200
2000
1800

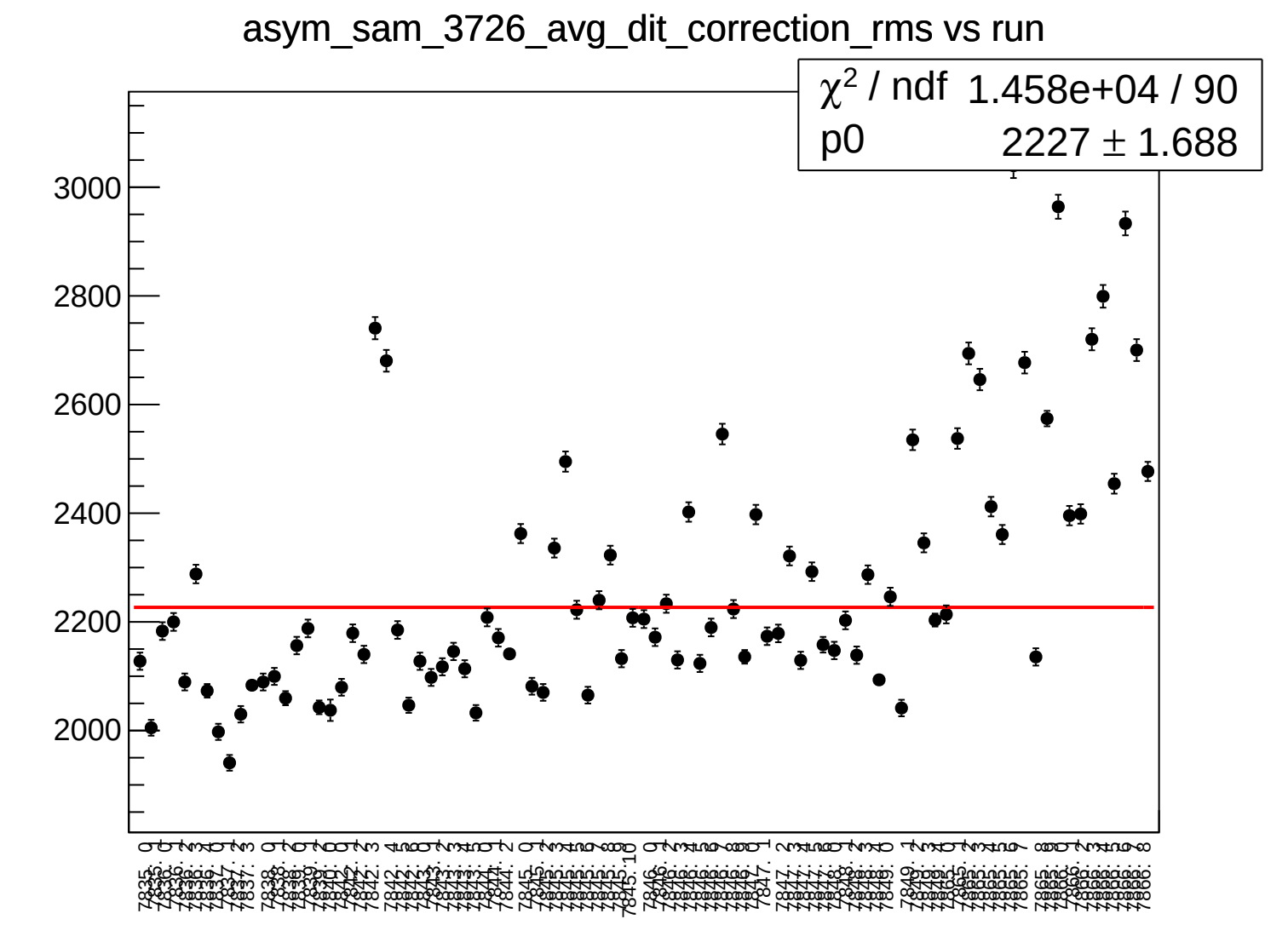

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 83.29 / 90
p0 230.4 ± 284.3
pull
Entries 91
Mean 29.71
Std Dev 0

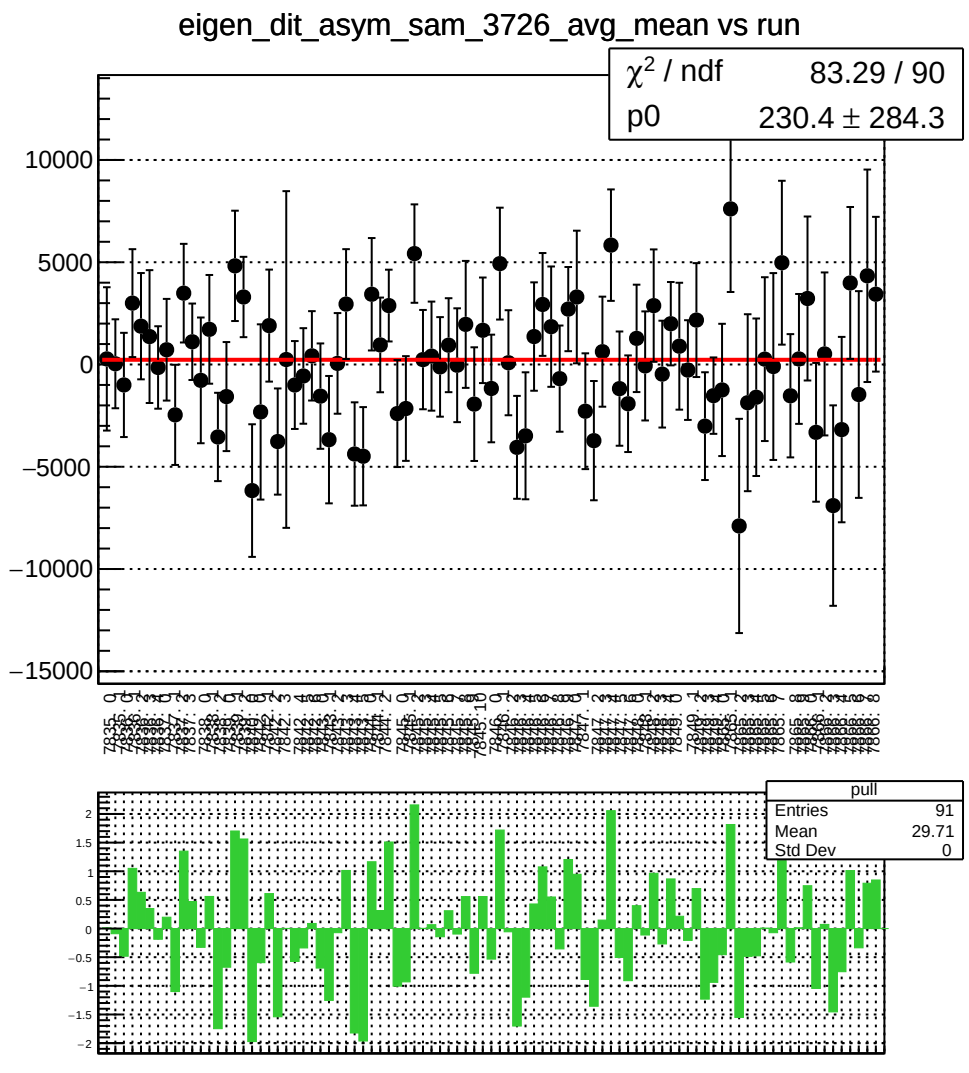

pull1D
Entries 91
Mean −0.02027
Std Dev 0.9565

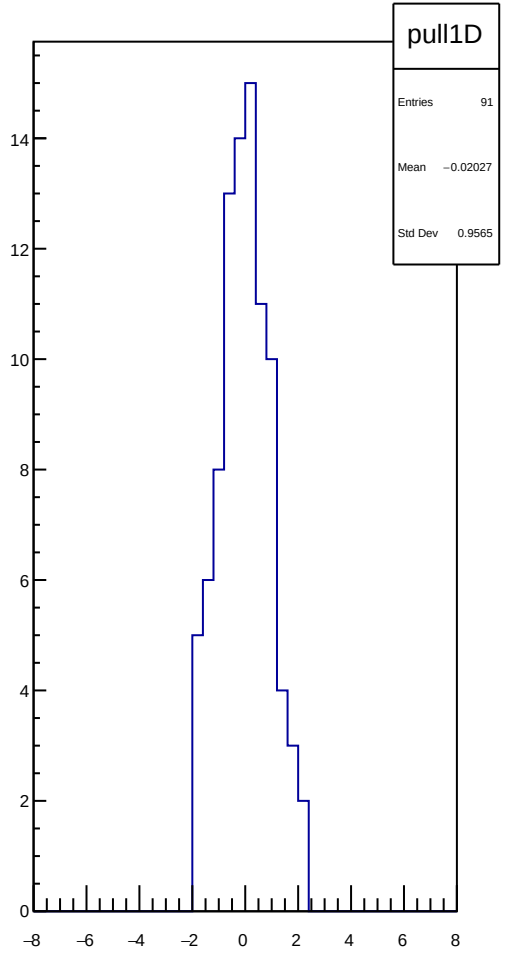

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 6.664e+04 / 90
p0 261.3 ± 0.2011
800
700
600
500
400
300
200

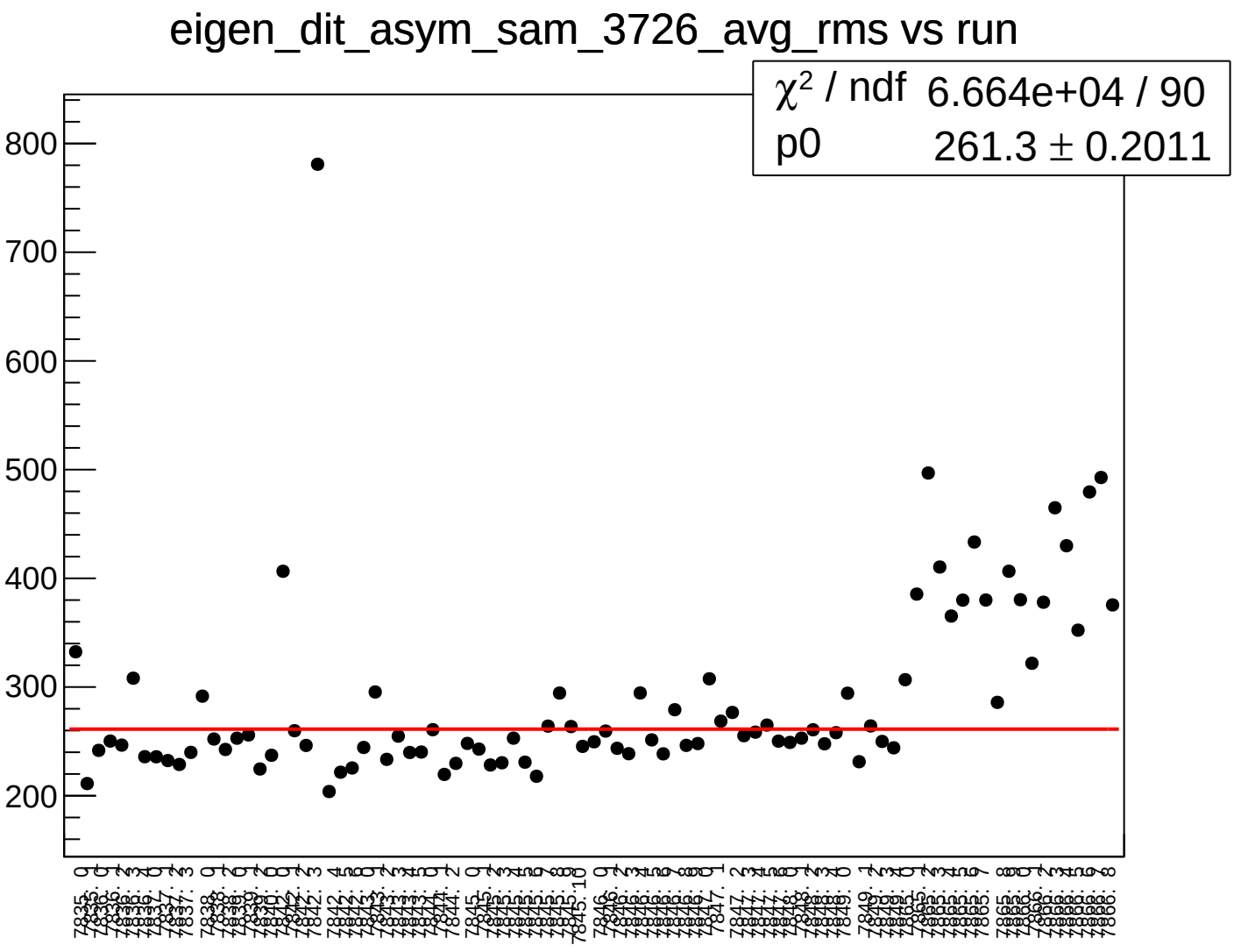

asym_sam_3726_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.4 / 90
p0 −0.8331 ± 2387
pull
Entries 91
Mean 86.32
Std Dev 0

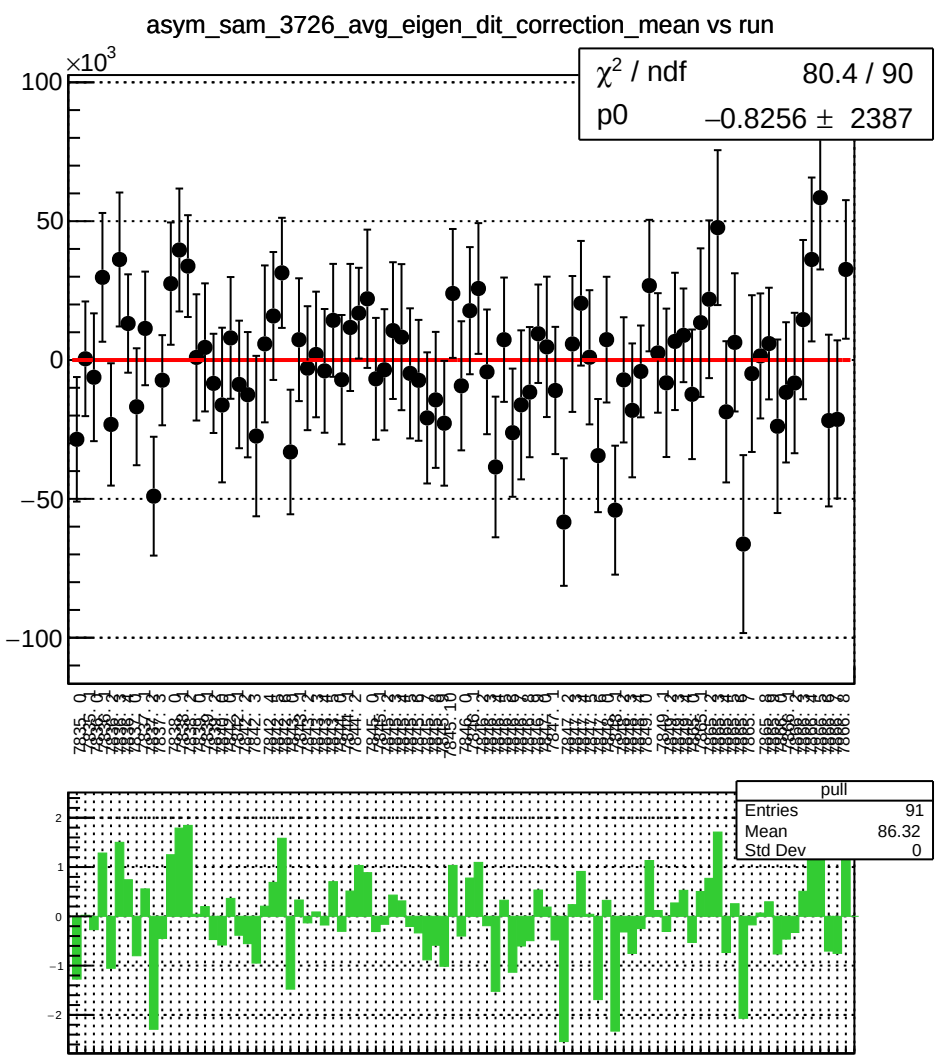

pull1D
Entries 91
Mean −0.01524
Std Dev 0.9398

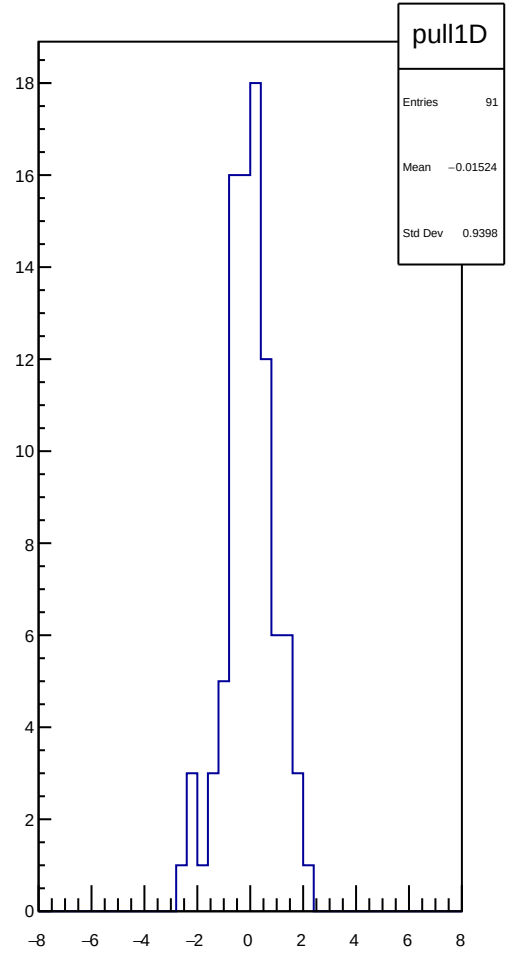

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.458e+04 / 90
p0 2227 ± 1.688
3000
2800
2600
2400
2200
2000

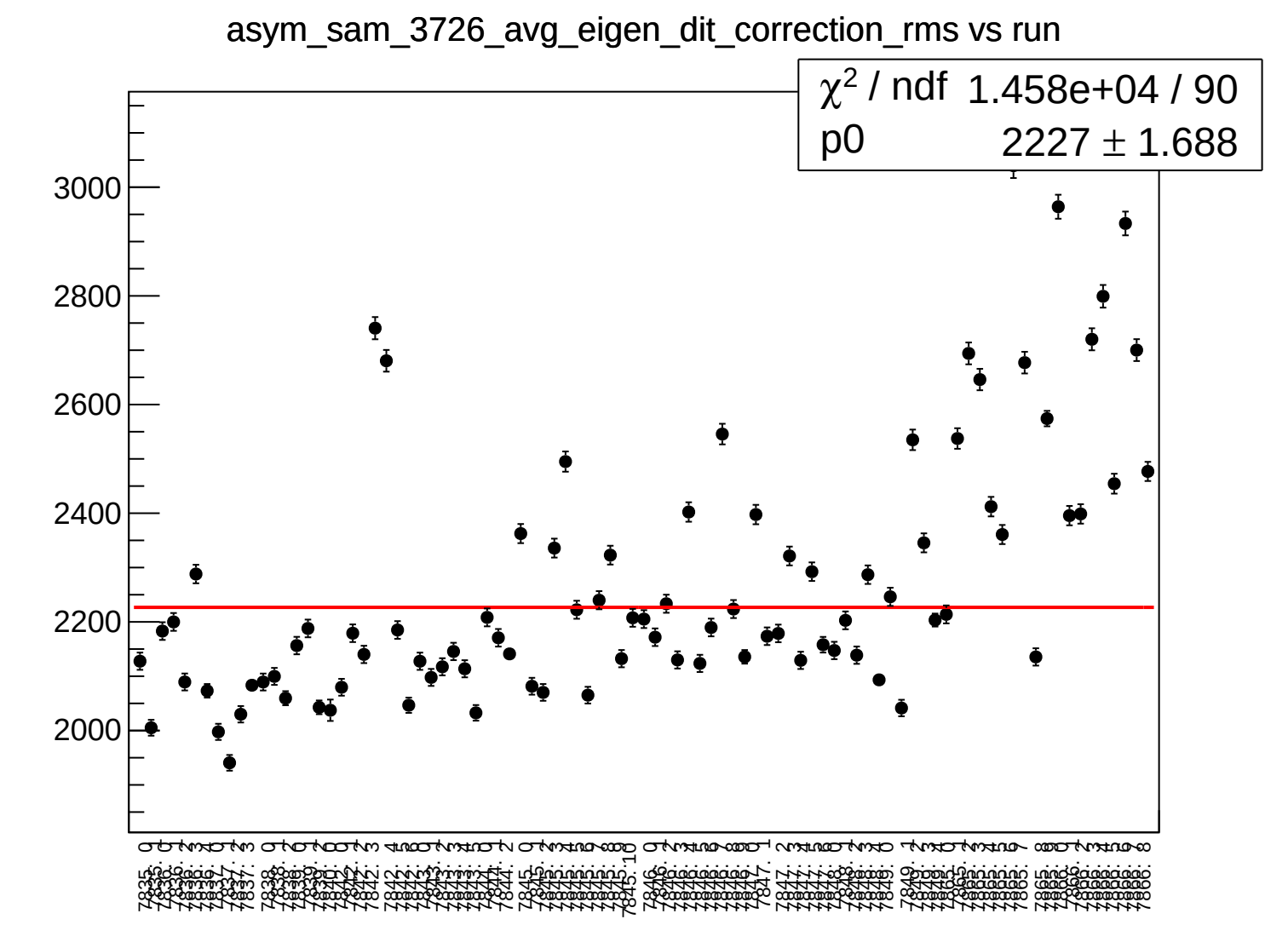

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 83.29 / 90
p0 230.4 ± 284.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 29.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

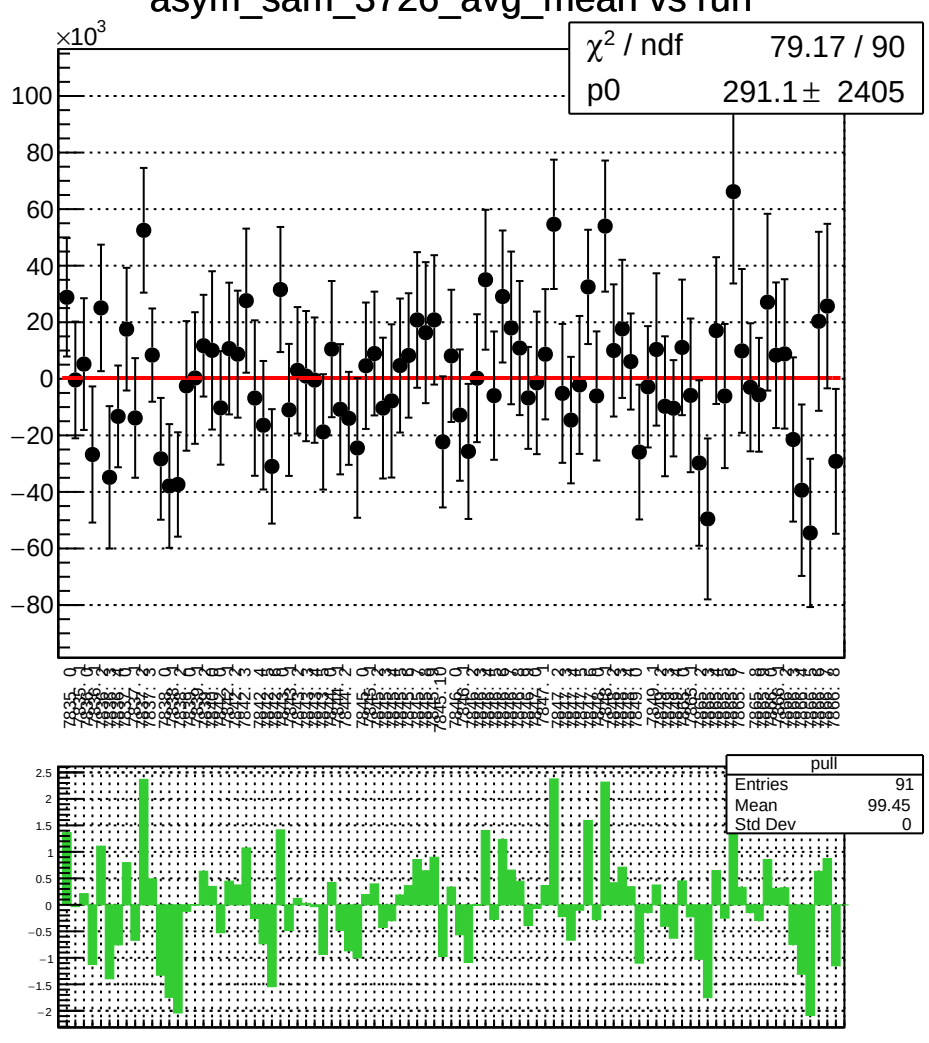

pull1D
Entries 91
Mean −0.02027
Std Dev 0.9565
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

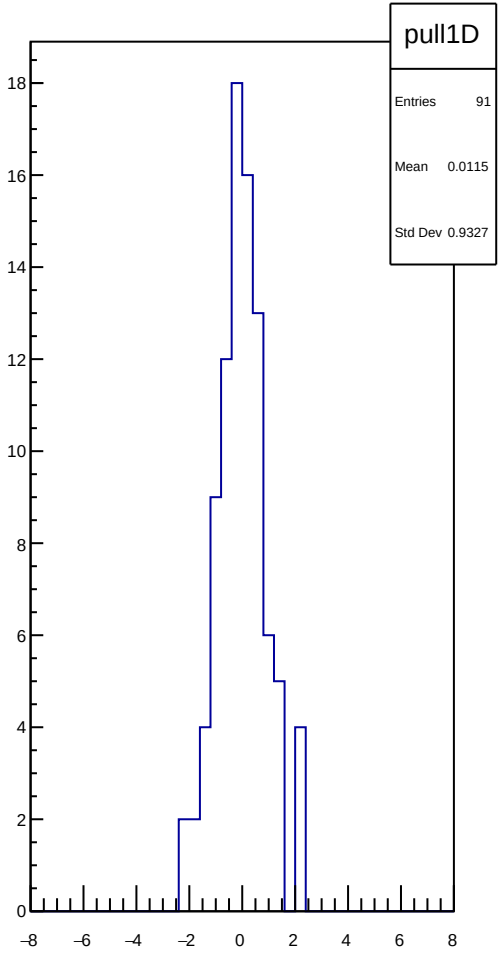

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 6.664e+04 / 90
p0 261.3 ± 0.2011
800
700
600
500
400
300
200

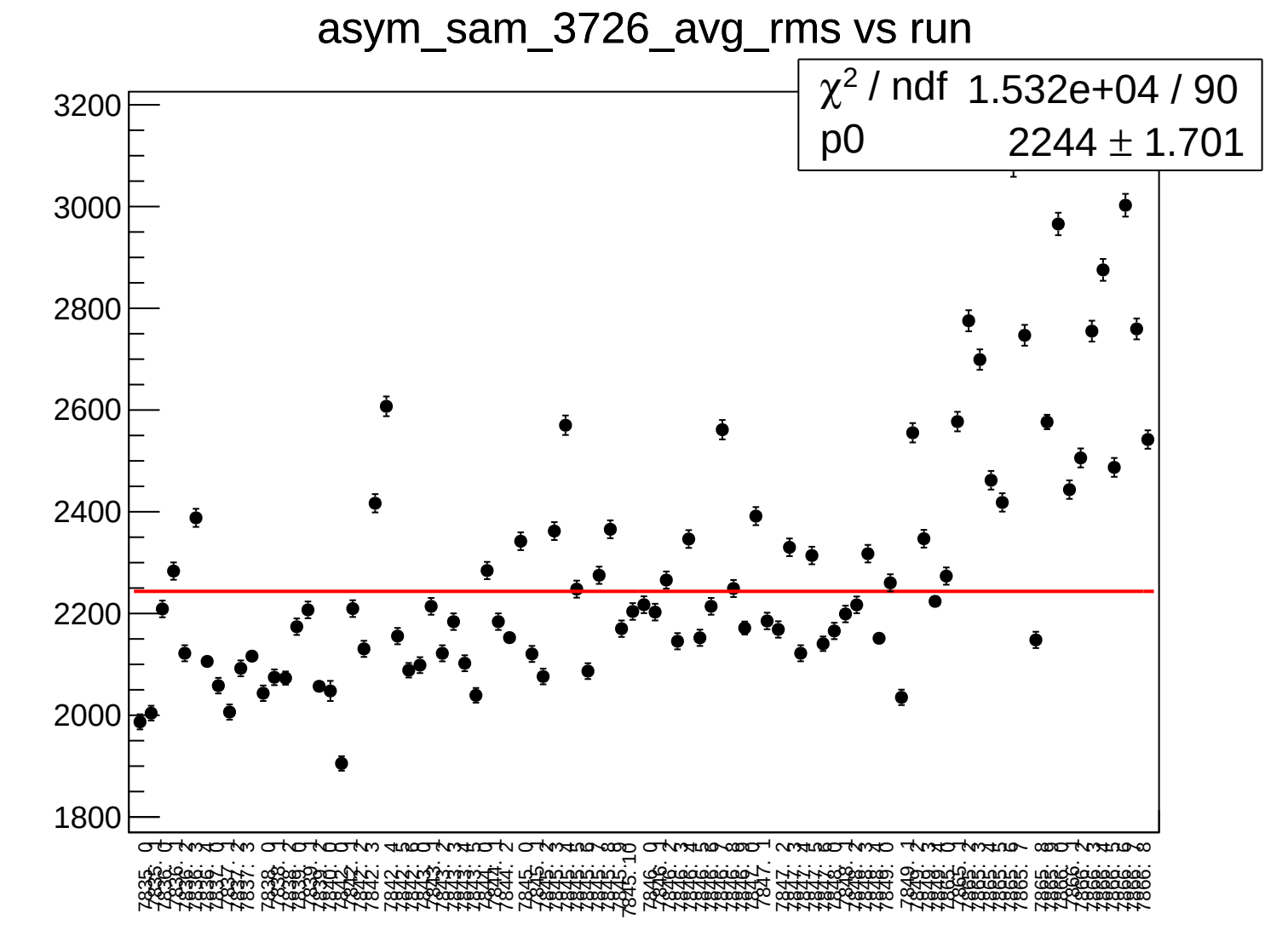

asym_sam_3726_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.4 / 90
p0 −0.8256 ± 2387
pull
Entries 91
Mean 86.32
Std Dev 0

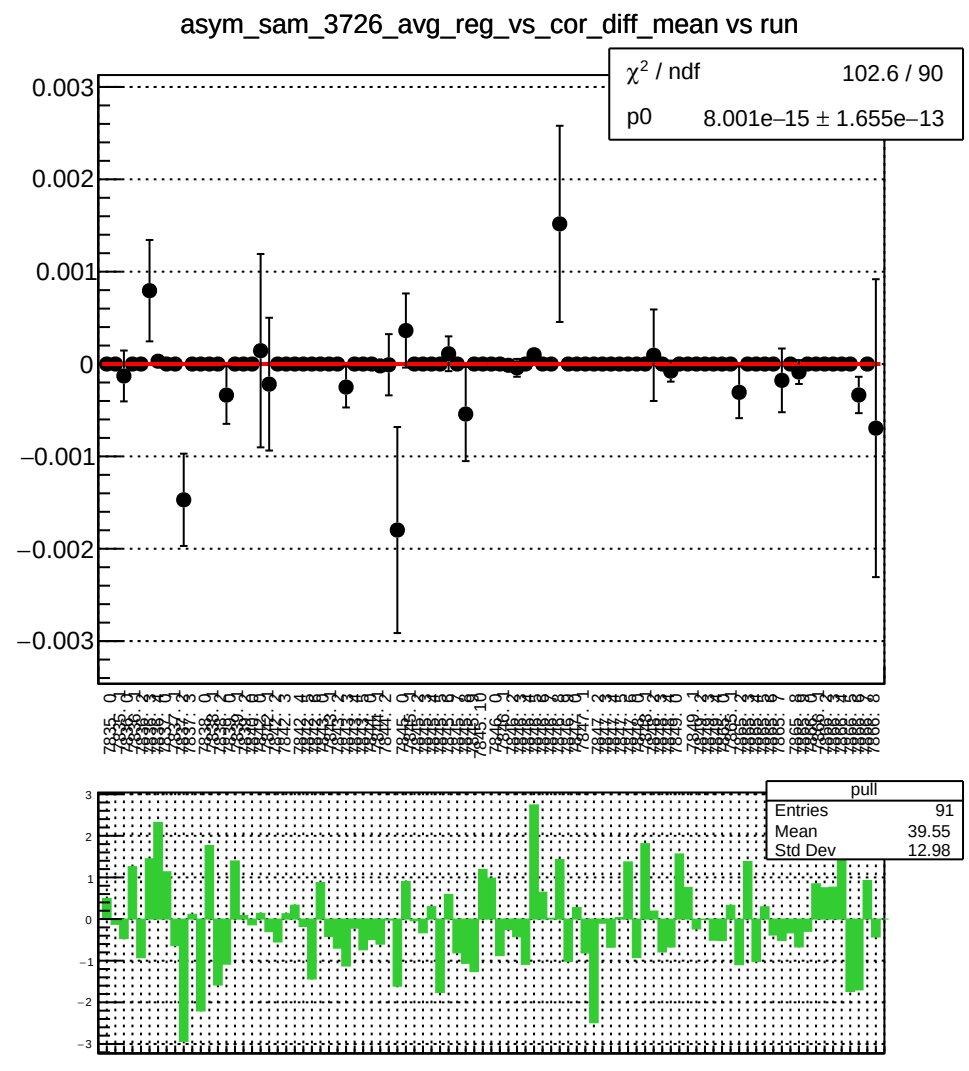

pull1D
Entries 91
Mean −0.01524
Std Dev 0.9398

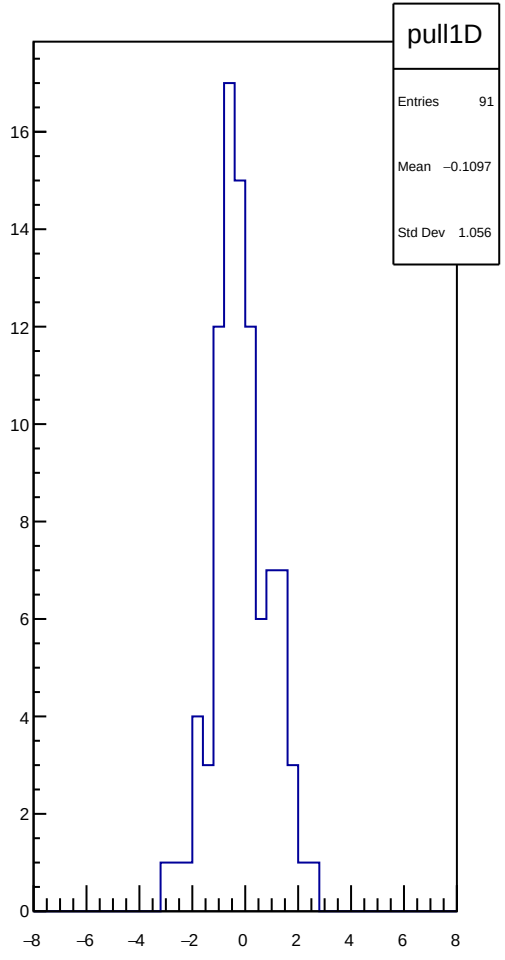

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.458e+04 / 90
p0 2227 ± 1.688
3000
2800
2600
2400
2200
2000

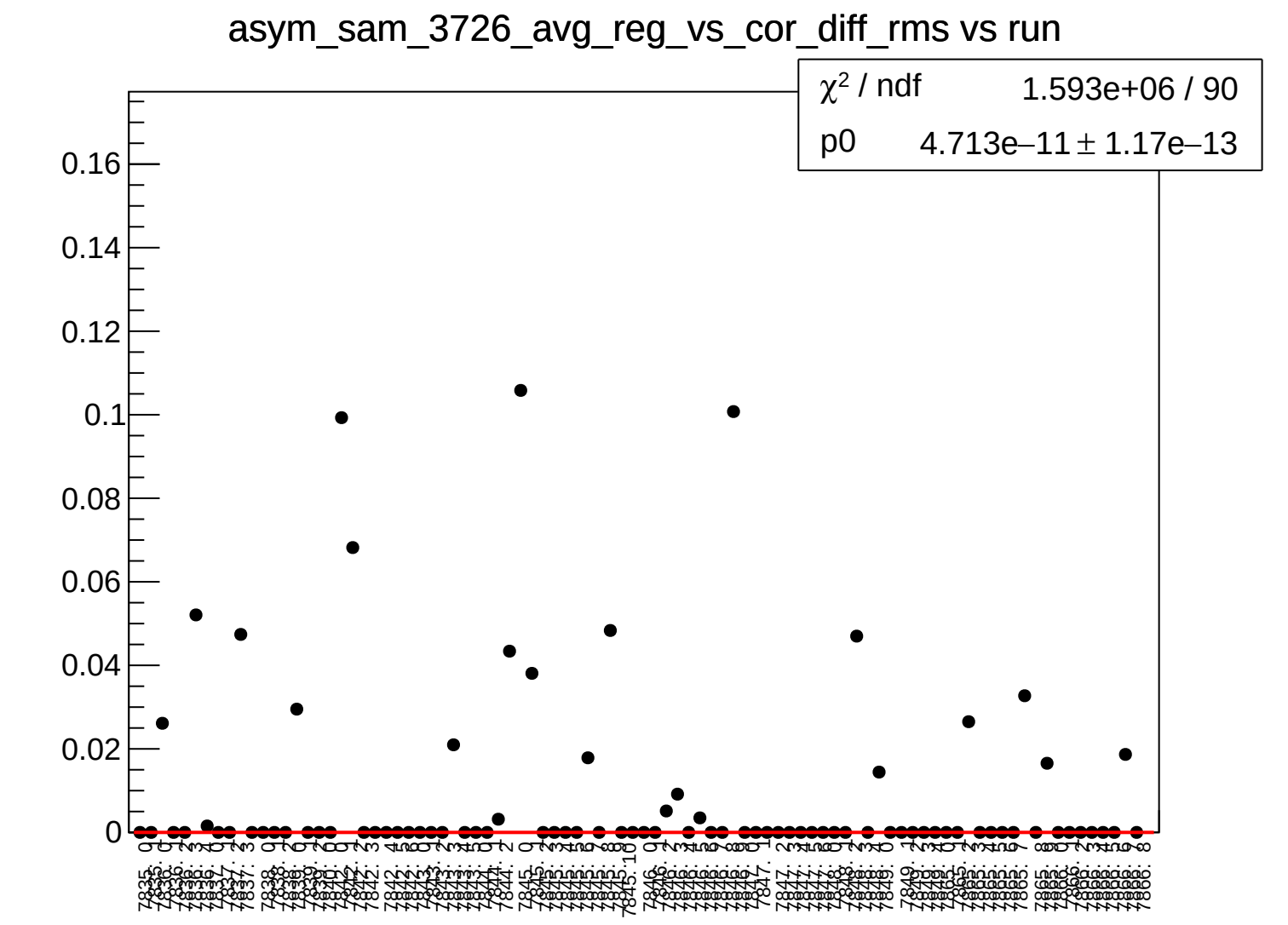

asym_sam_3726_avg_mean vs run
χ² / ndf 79.17 / 90
p0 291.1 ± 2405
pull
Entries 91
Mean 99.45
Std Dev 0

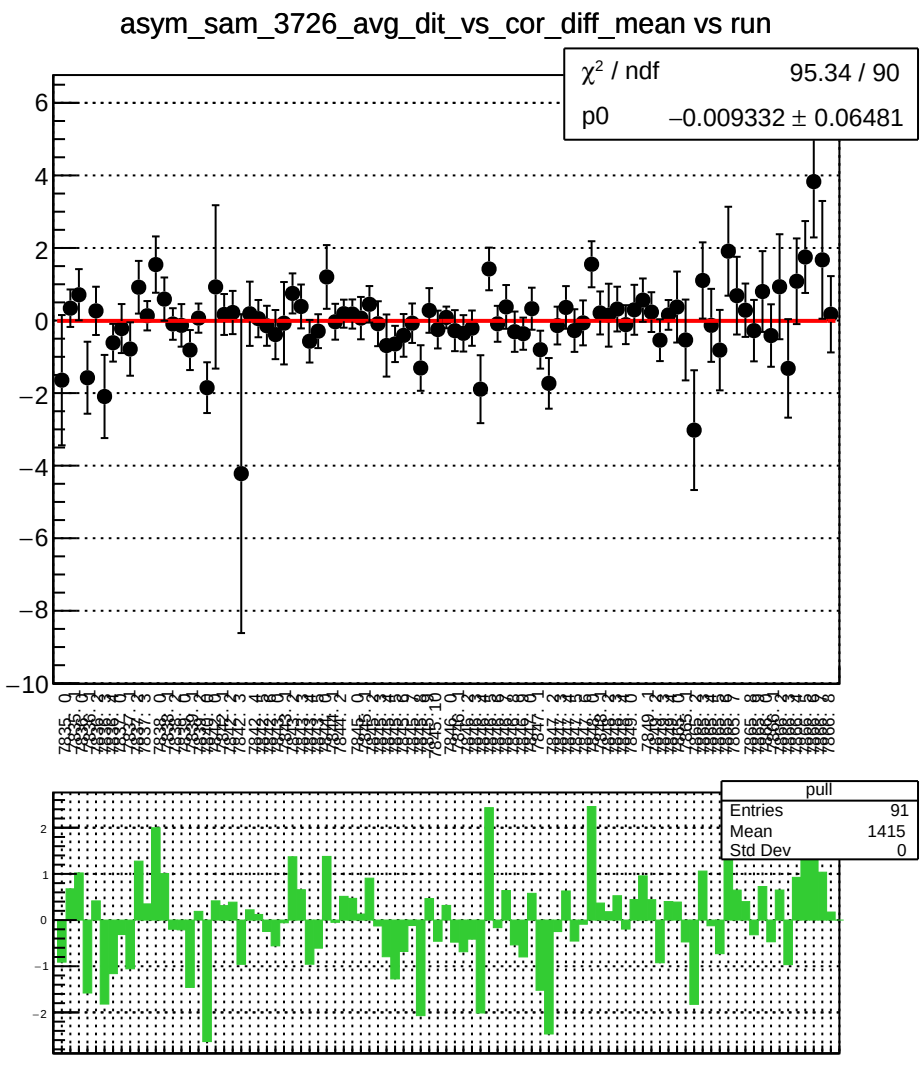

pull1D
Entries 91
Mean 0.0115
Std Dev 0.9327

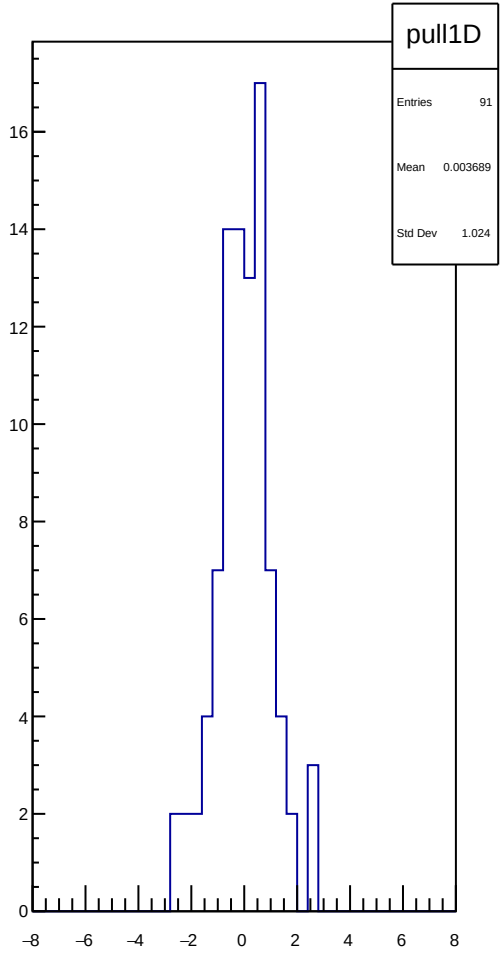

asym_sam_3726_avg_rms vs run
χ² / ndf 1.532e+04 / 90
p0 2244 ± 1.701
3200
3000
2800
2600
2400
2200
2000
1800

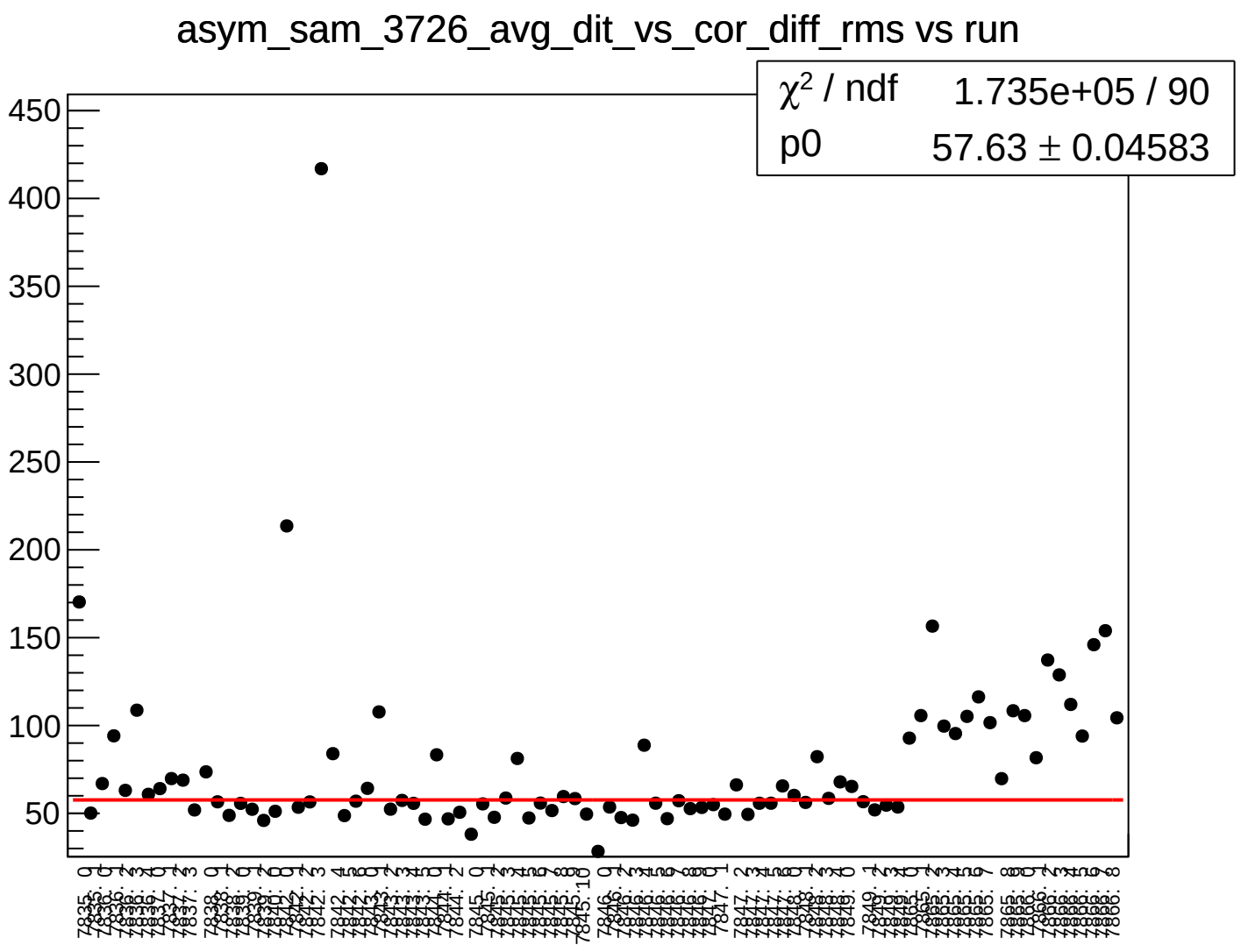

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 90
p0 8.001e−15 ± 1.655e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 91
Mean 39.55
Std Dev 12.98
3
2
1
0
−1
−2
−3

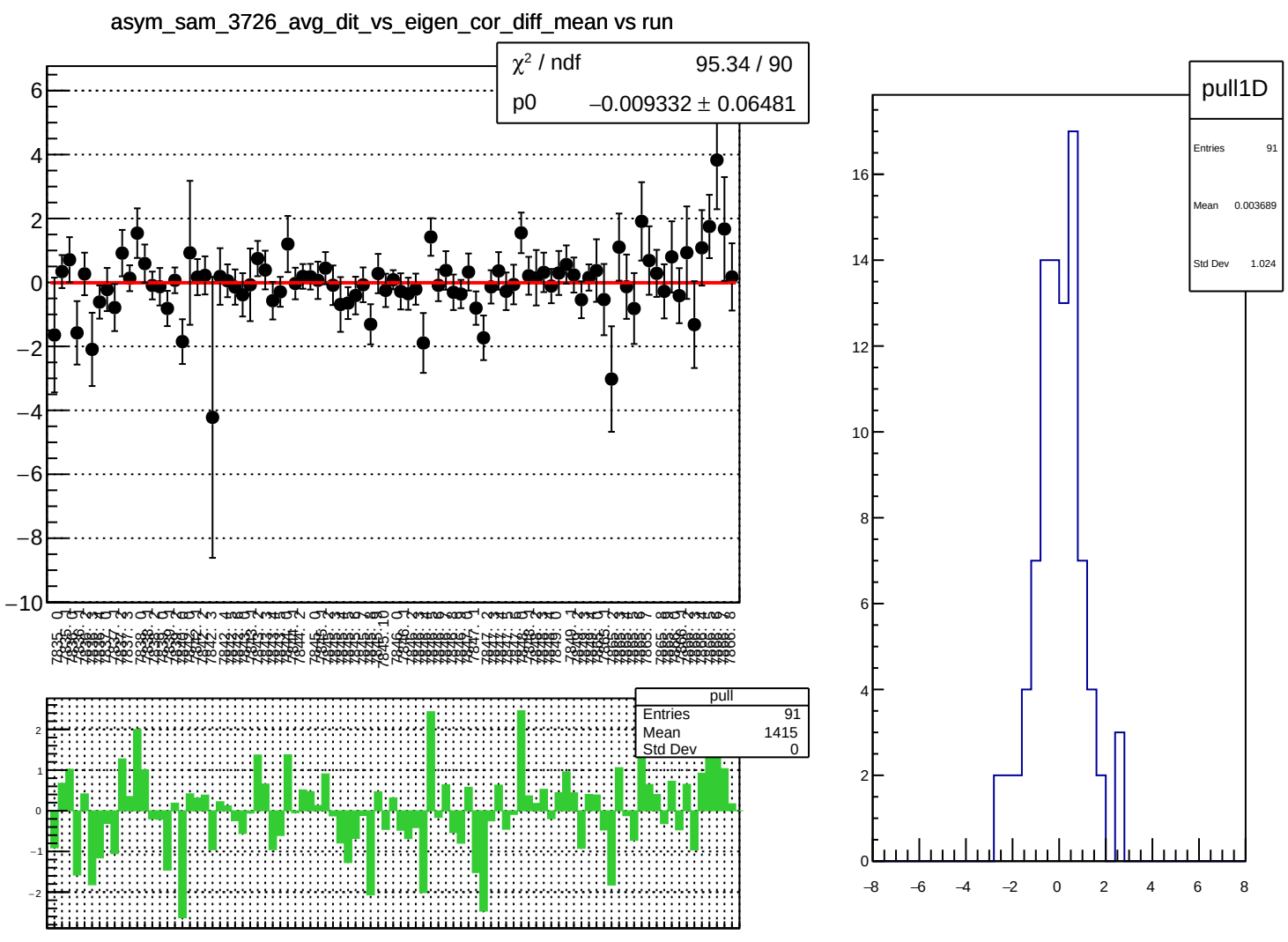

pull1D
Entries 91
Mean −0.1097
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

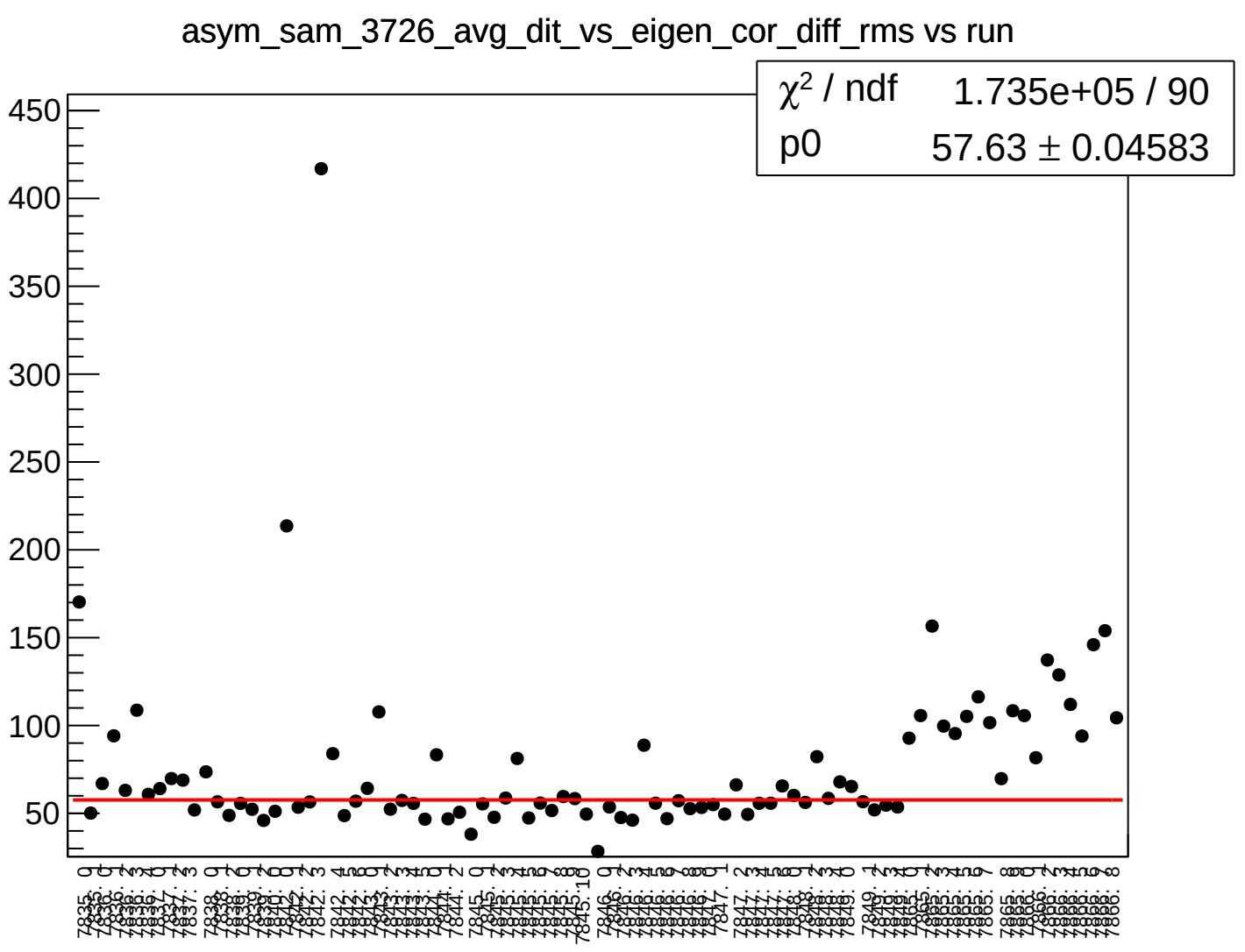

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.593e+06 / 90
p0 4.713e−11 ± 1.17e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

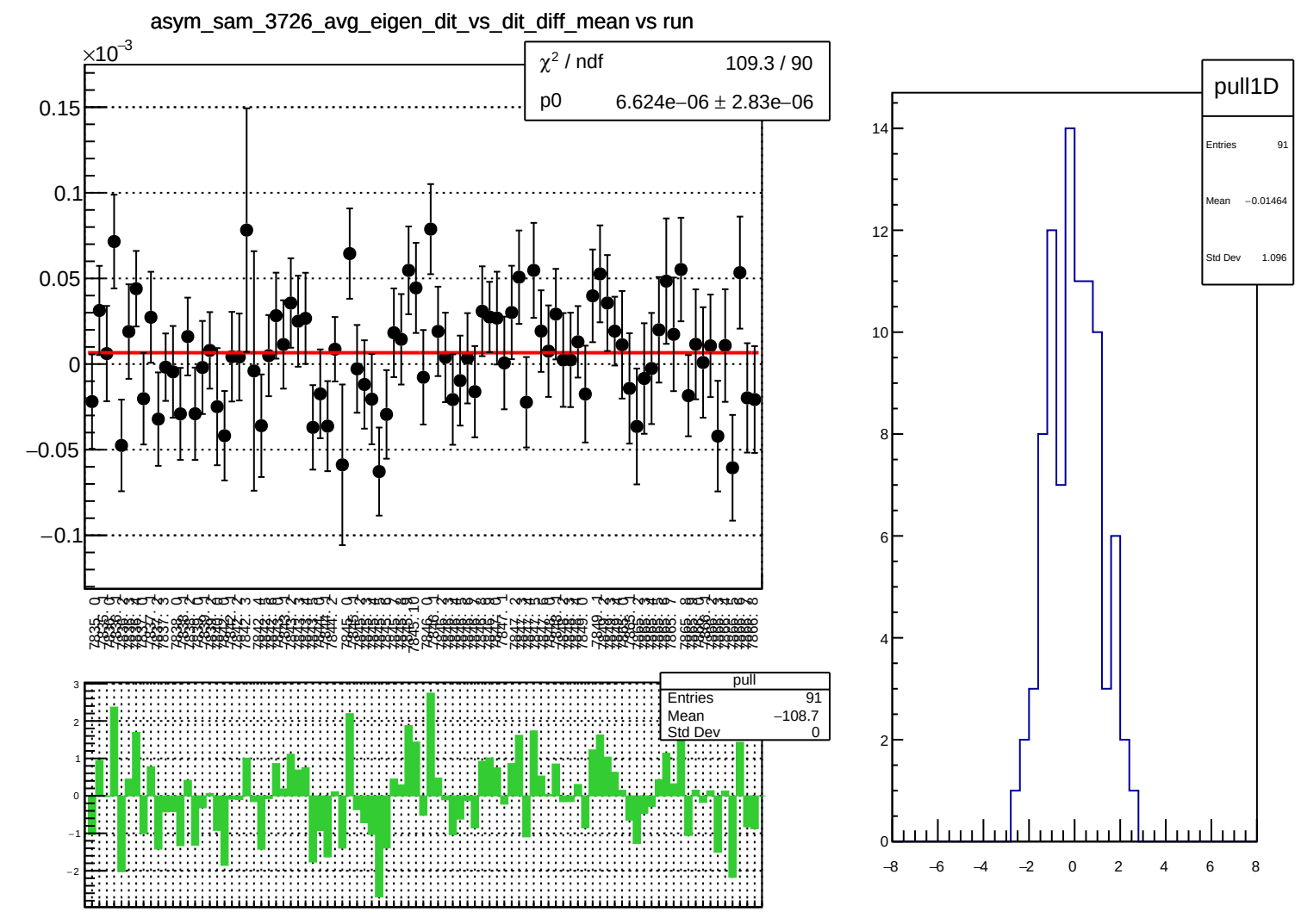

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 −0.009332 ± 0.06481
pull
Entries 91
Mean 1415
Std Dev 0

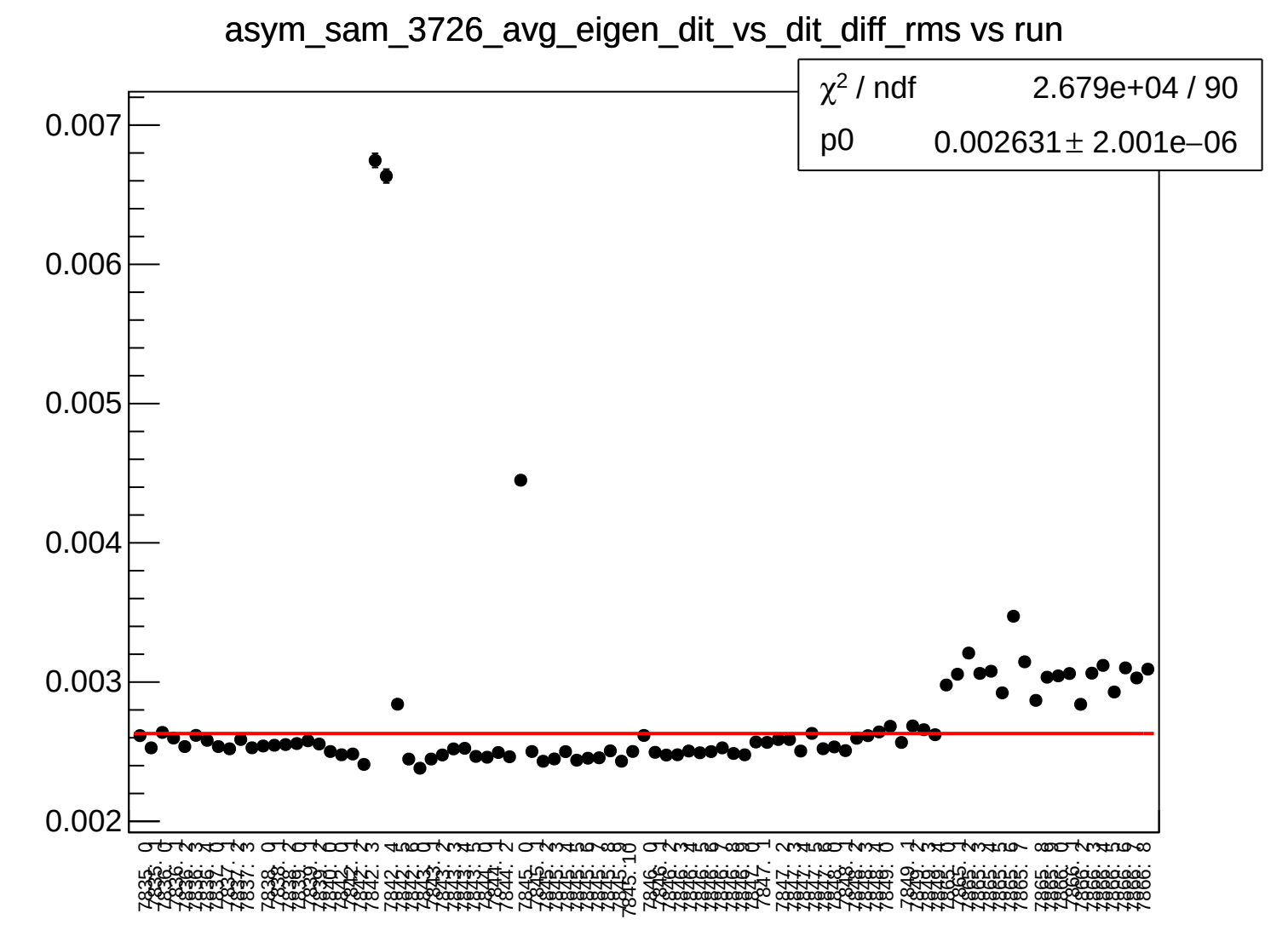

pull1D
Entries 91
Mean 0.003689
Std Dev 1.024

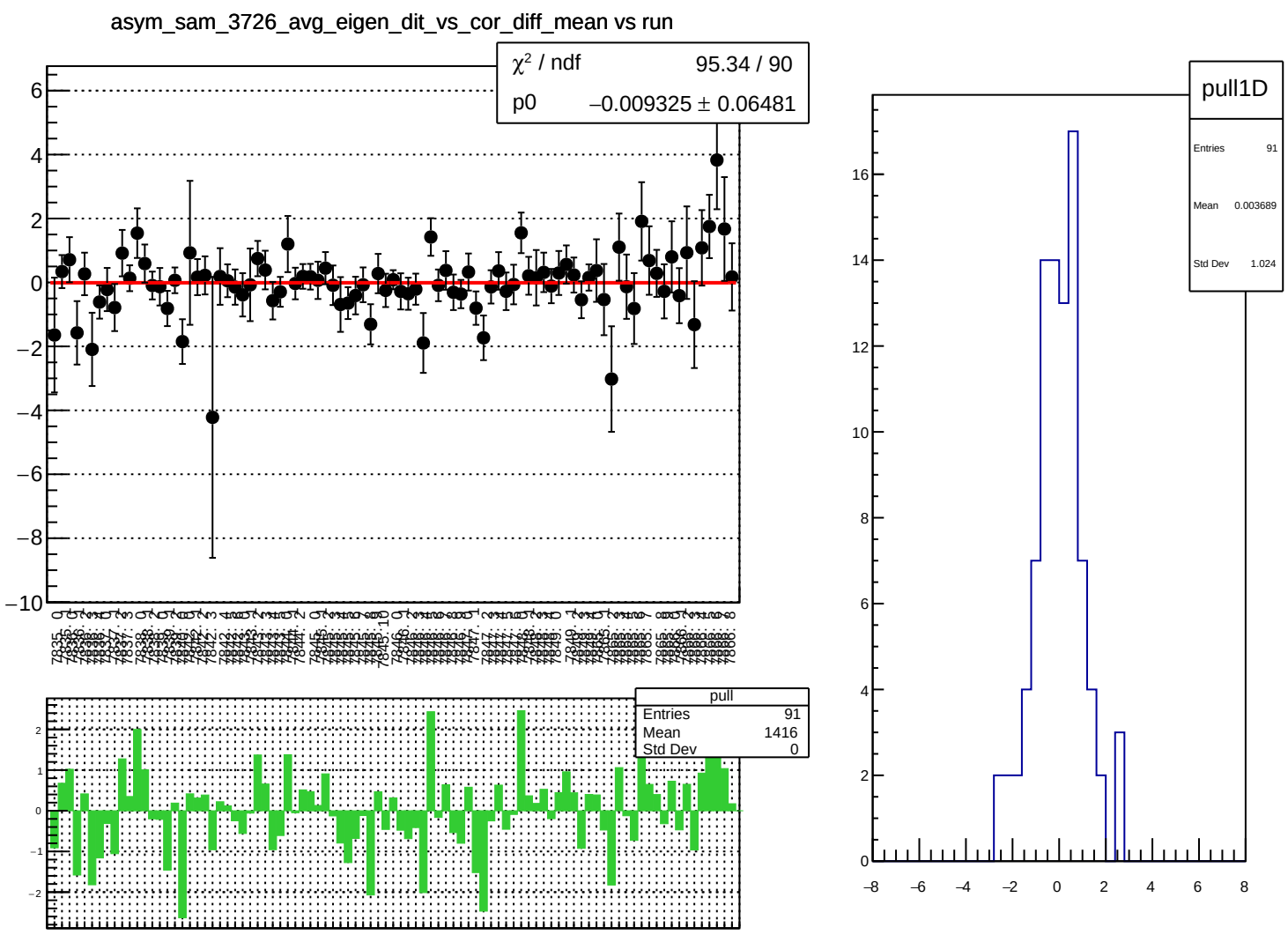

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.735e+05 / 90
p0 57.63 ± 0.04583
450
400
350
300
250
200
150
100
50

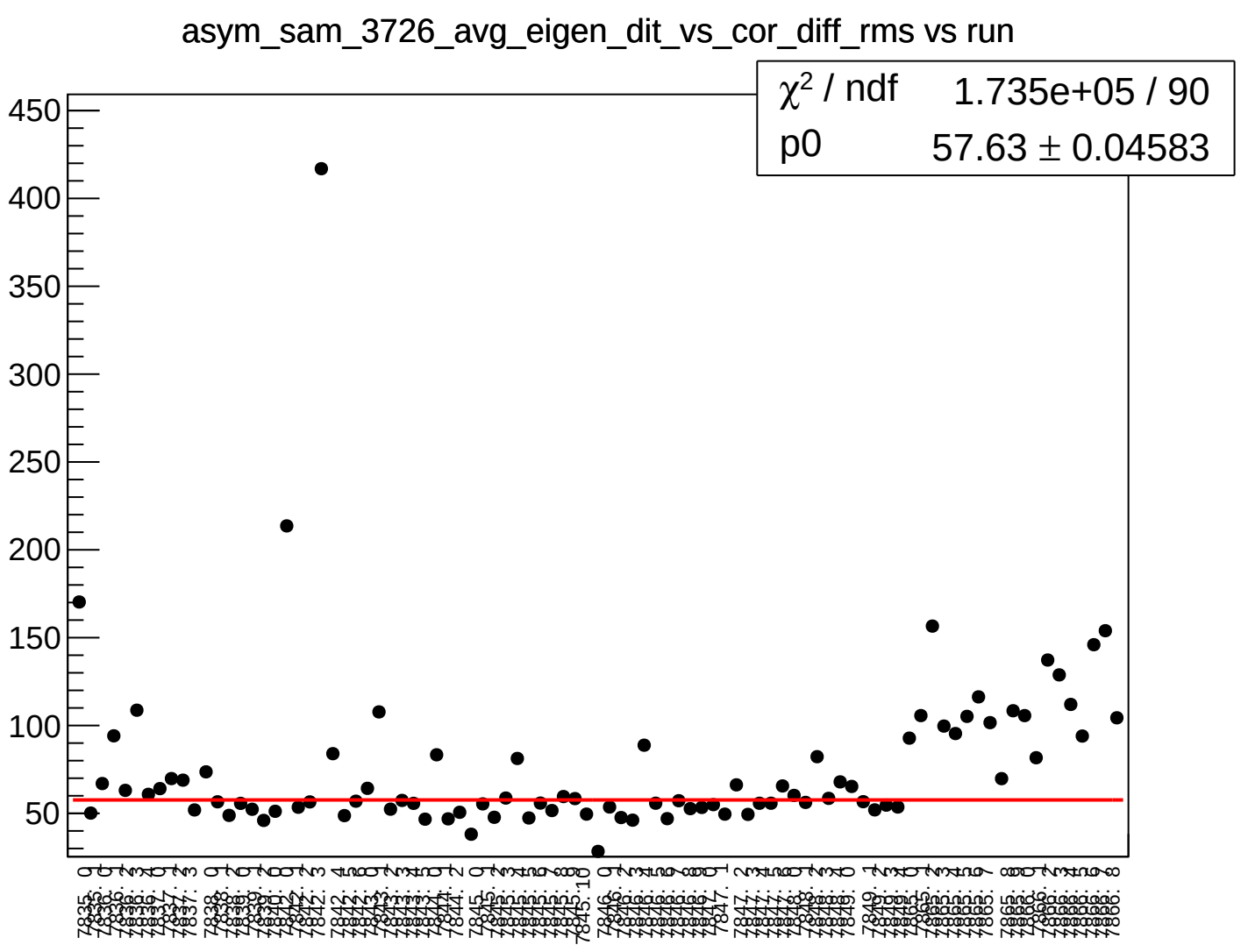

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 −0.009332 ± 0.06481
pull
Entries 91
Mean 1415
Std Dev 0
pull1D
Entries 91
Mean 0.003689
Std Dev 1.024

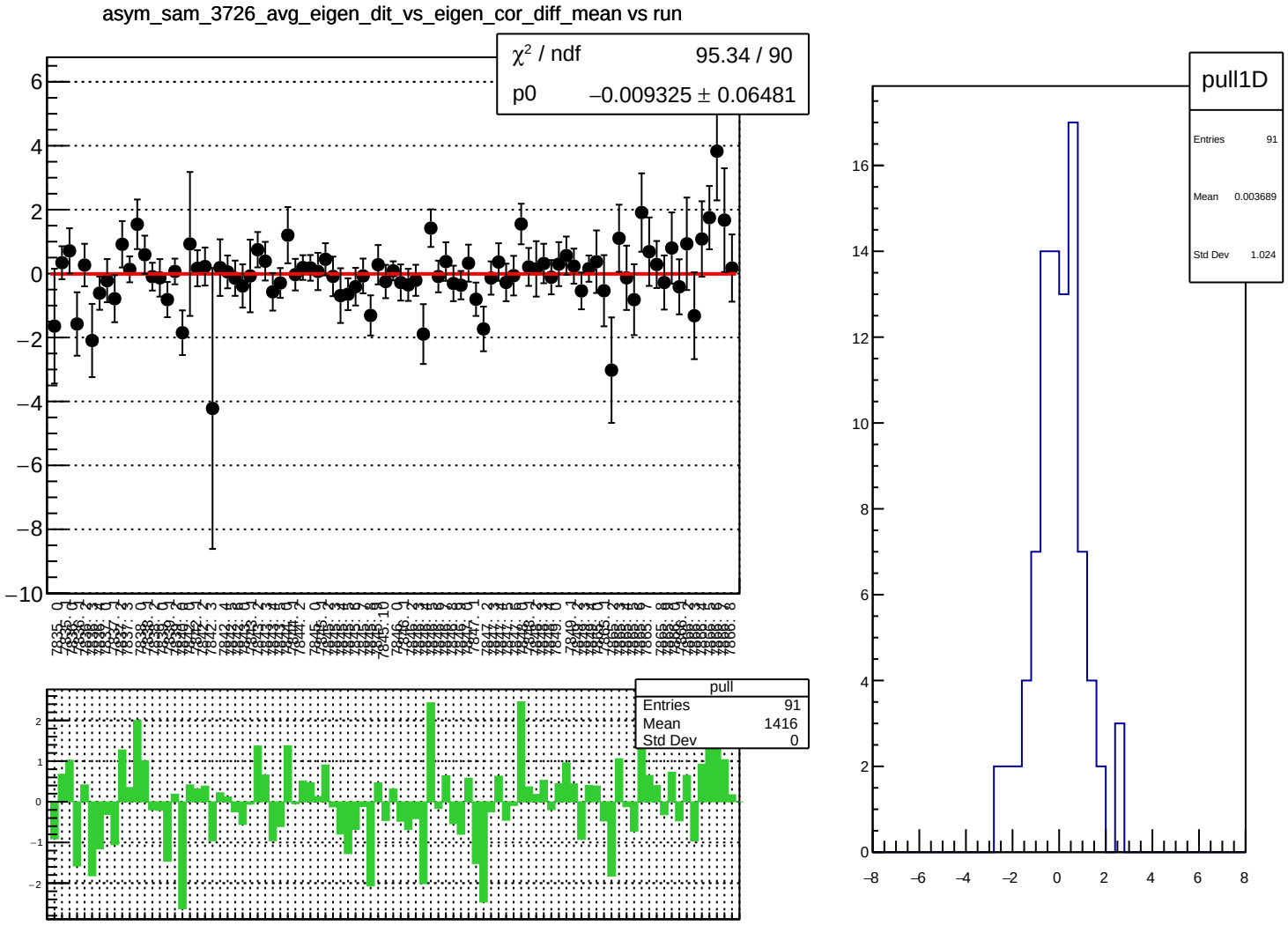

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.735e+05 / 90
p0 57.63 ± 0.04583
450
400
350
300
250
200
150
100
50

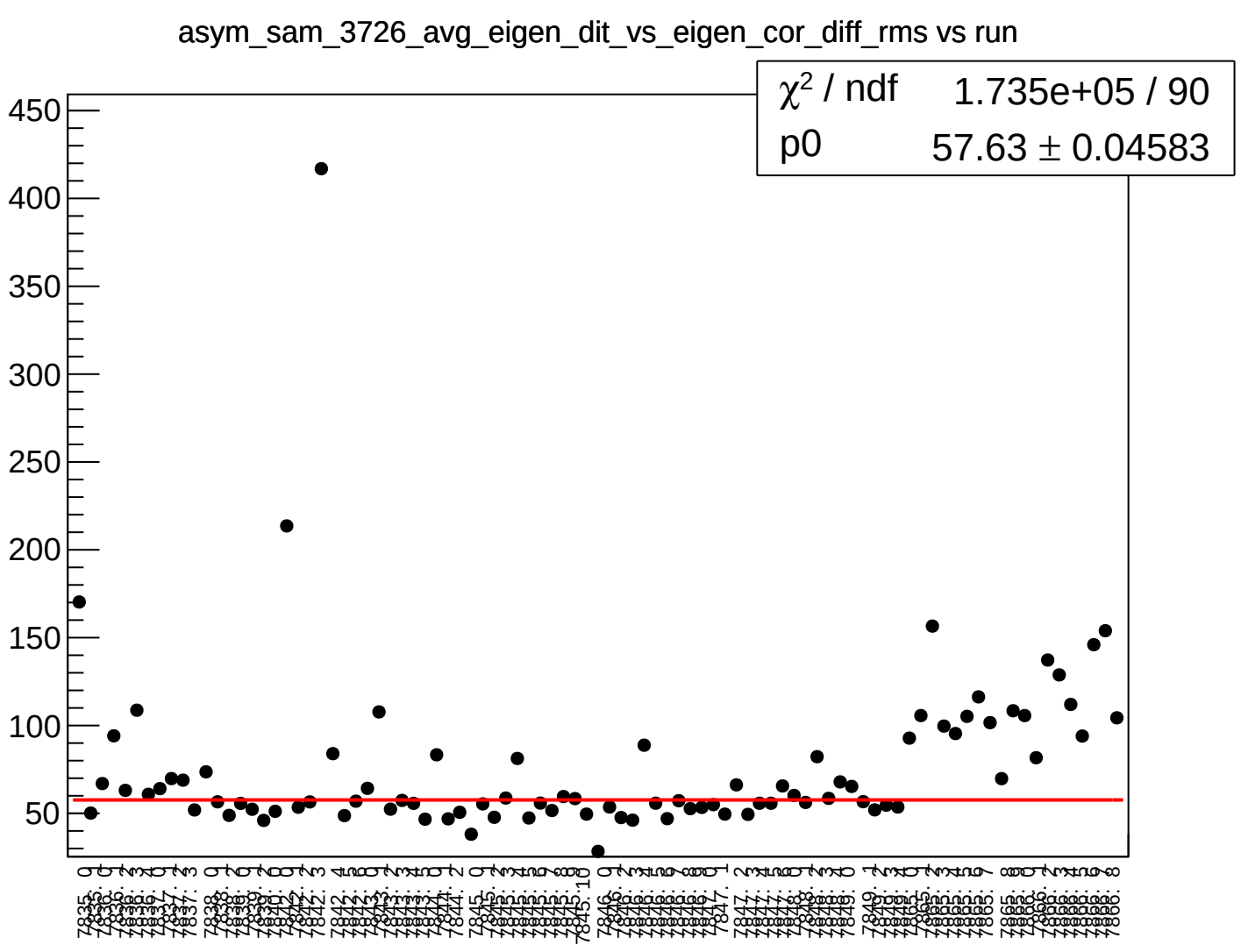

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.3 / 90
p0 6.624e−06 ± 2.83e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −108.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01464
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

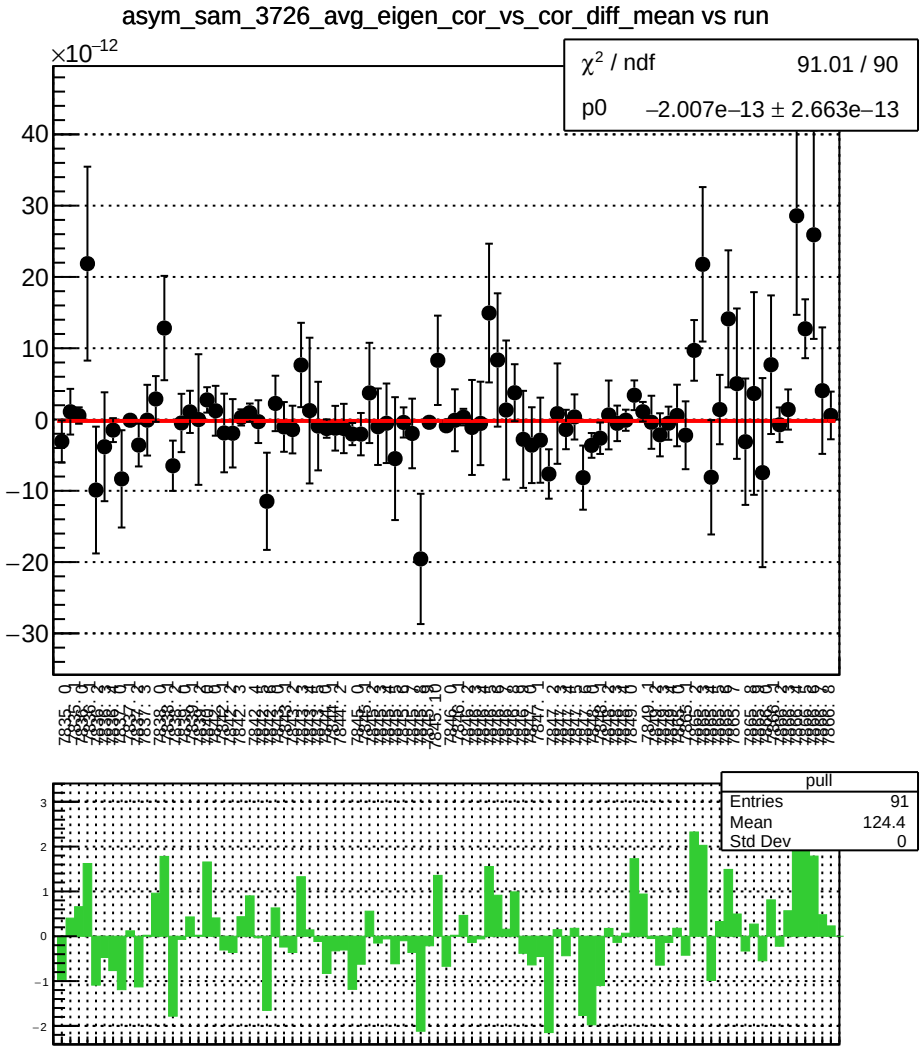

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.679e+04 / 90
p0 0.002631 ± 2.001e−06
0.007
0.006
0.005
0.004
0.003
0.002

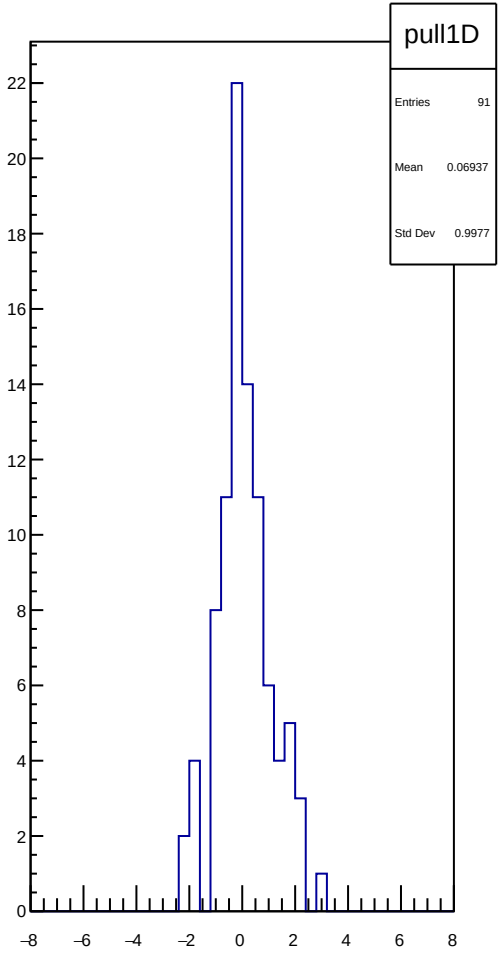

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 −0.009325 ± 0.06481
pull
Entries 91
Mean 1416
Std Dev 0
pull1D
Entries 91
Mean 0.003689
Std Dev 1.024

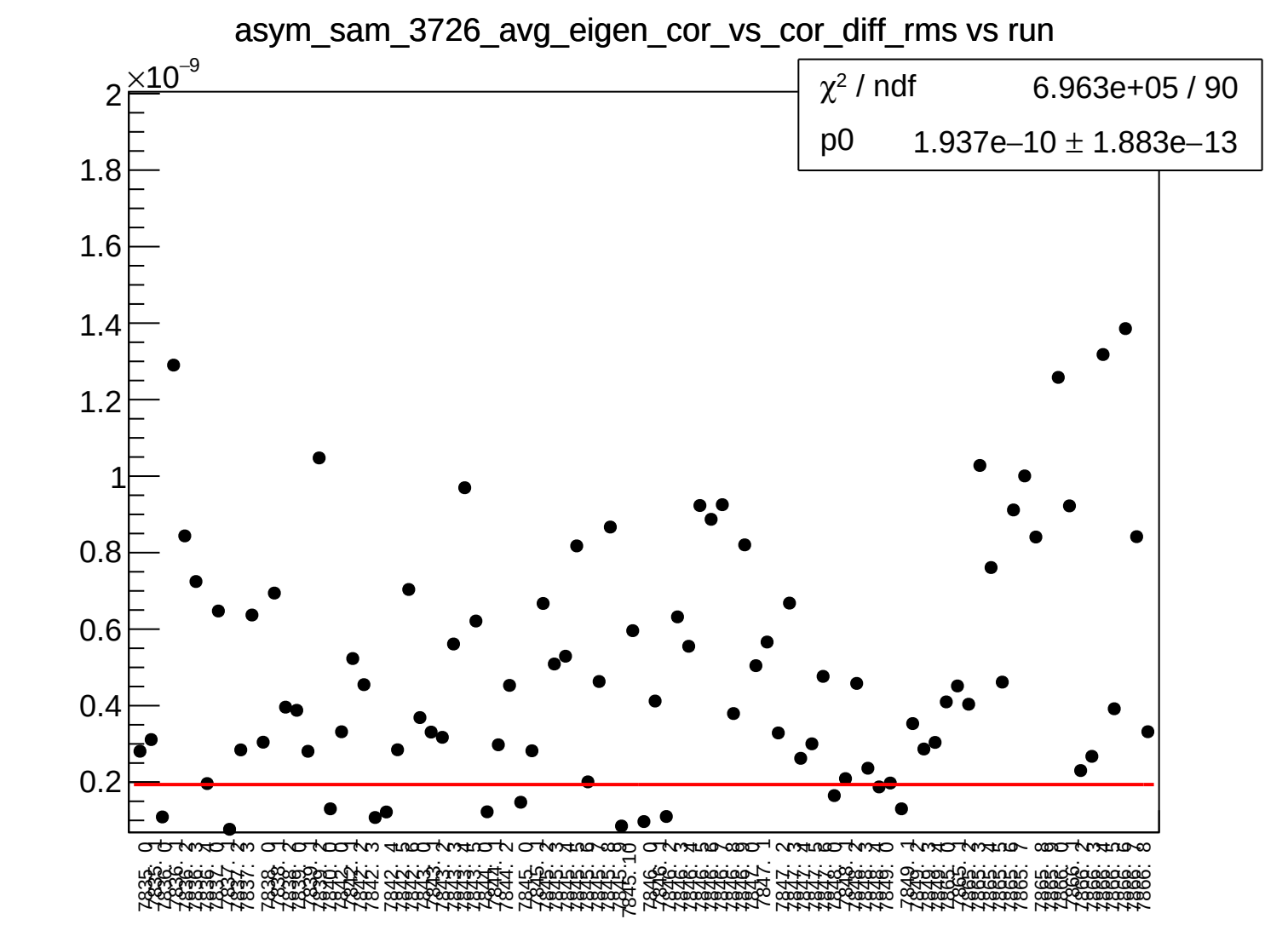

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.735e+05 / 90
p0 57.63 ± 0.04583
450
400
350
300
250
200
150
100
50

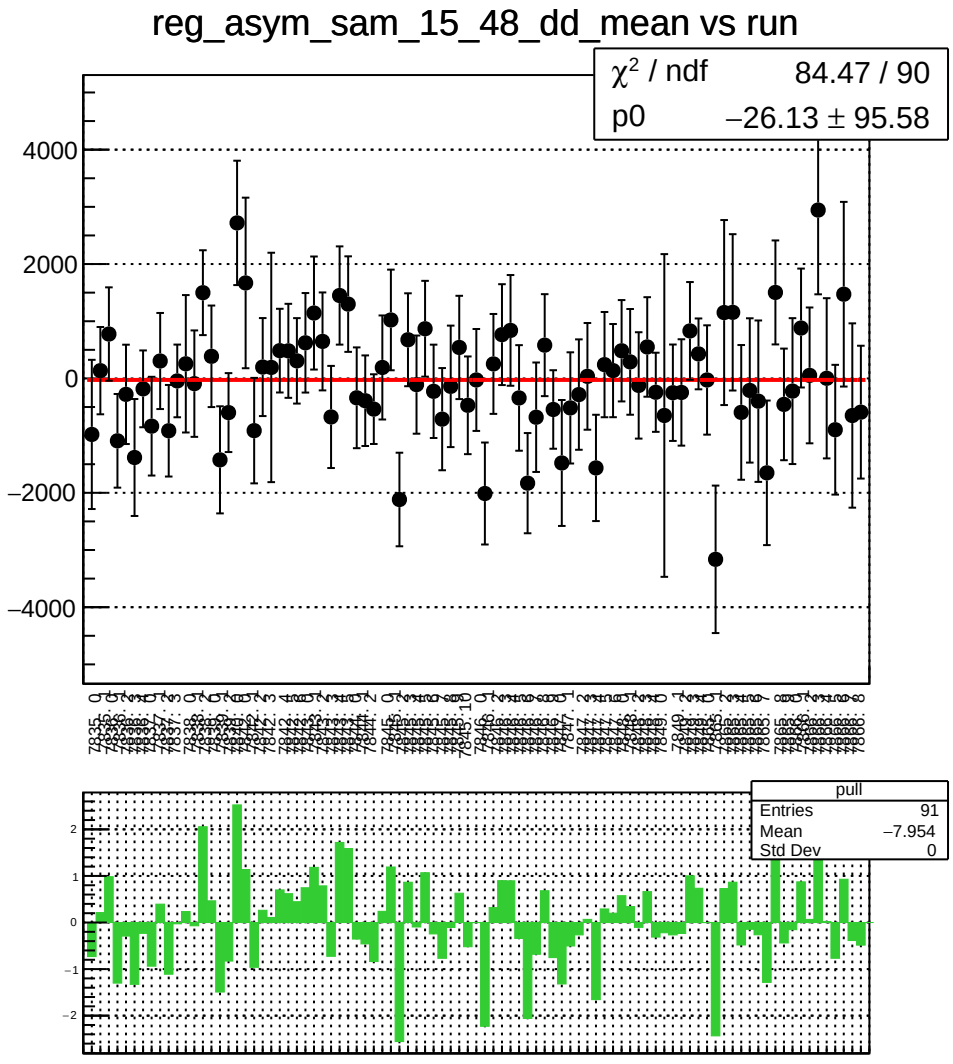

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.34 / 90
p0 −0.009325 ± 0.06481
pull
Entries 91
Mean 1416
Std Dev 0
pull1D
Entries 91
Mean 0.003689
Std Dev 1.024

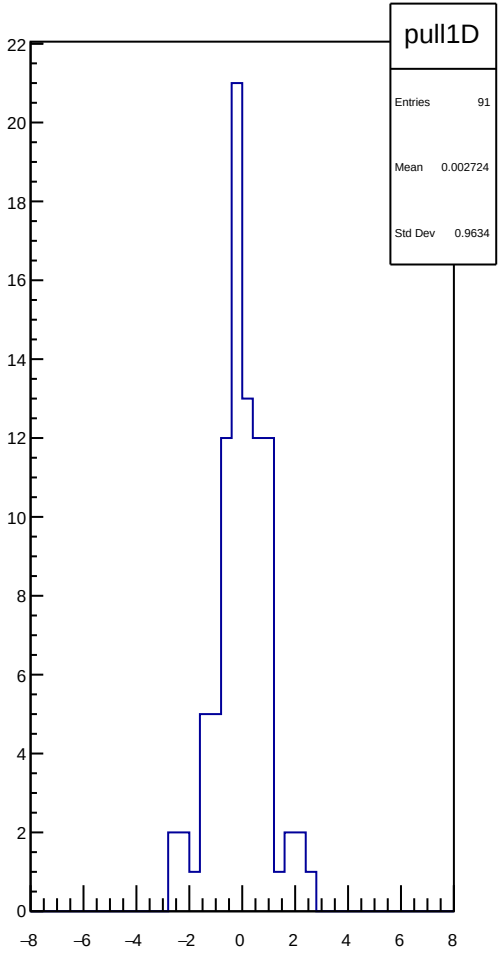

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.735e+05 / 90
p0 57.63 ± 0.04583
450
400
350
300
250
200
150
100
50

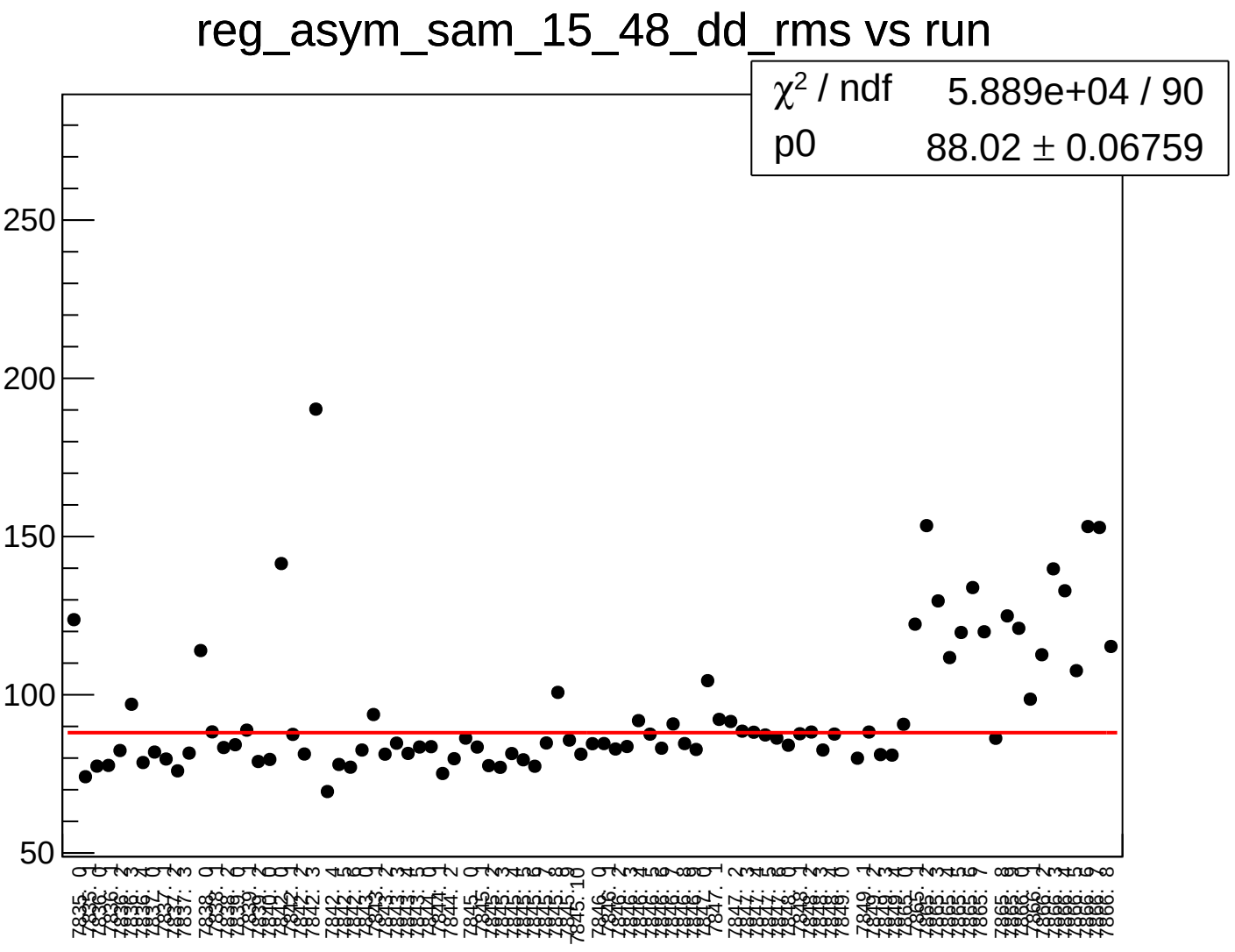

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.01 / 90
p0 −2.007e−13 ± 2.663e−13
pull
Entries 91
Mean 124.4
Std Dev 0

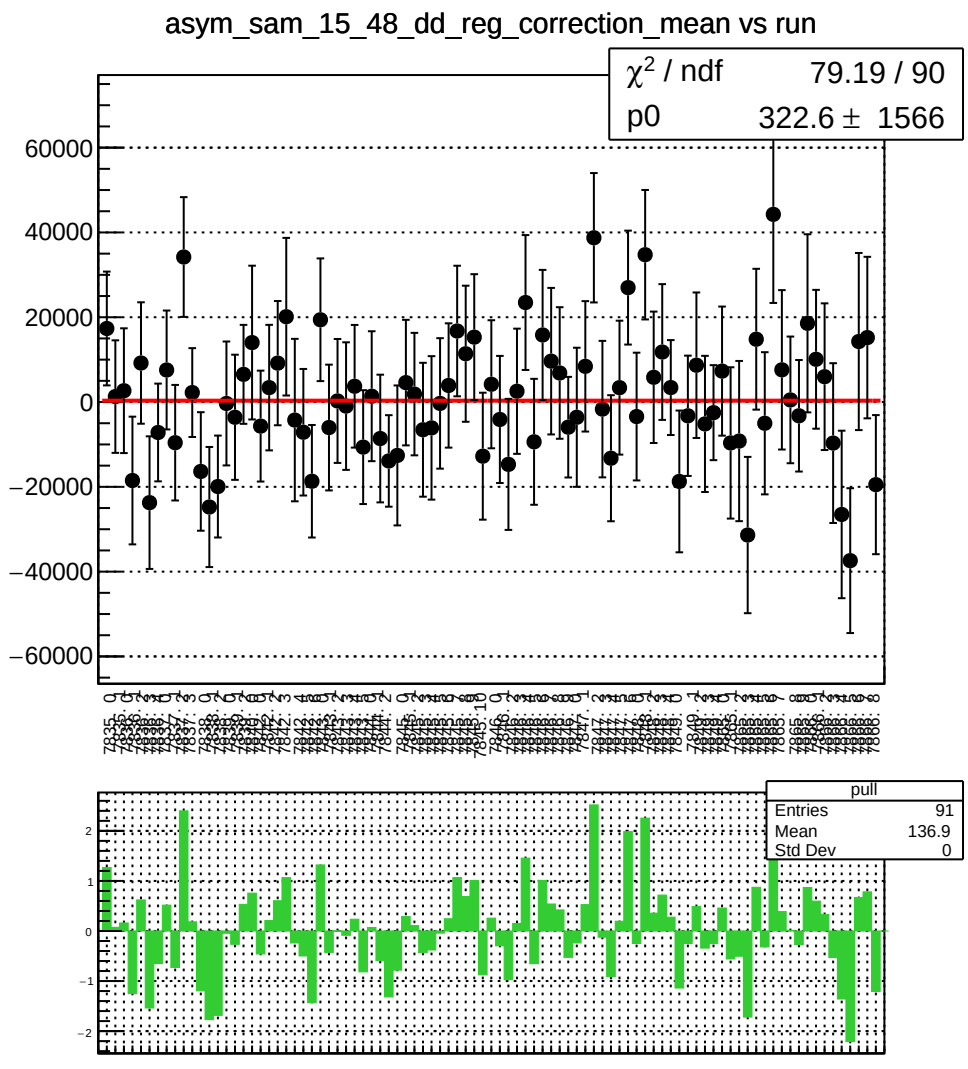

pull1D
Entries 91
Mean 0.06937
Std Dev 0.9977

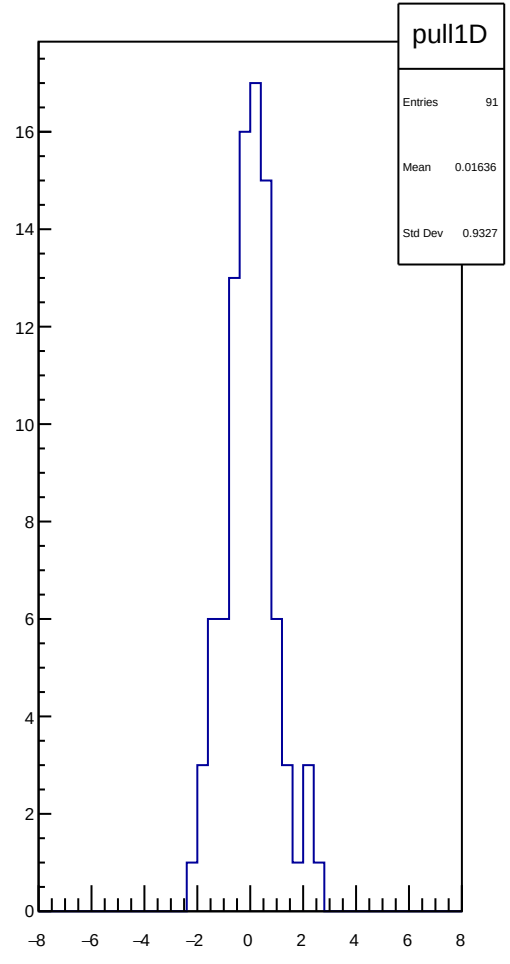

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.963e+05 / 90
p0 1.937e−10 ± 1.883e−13

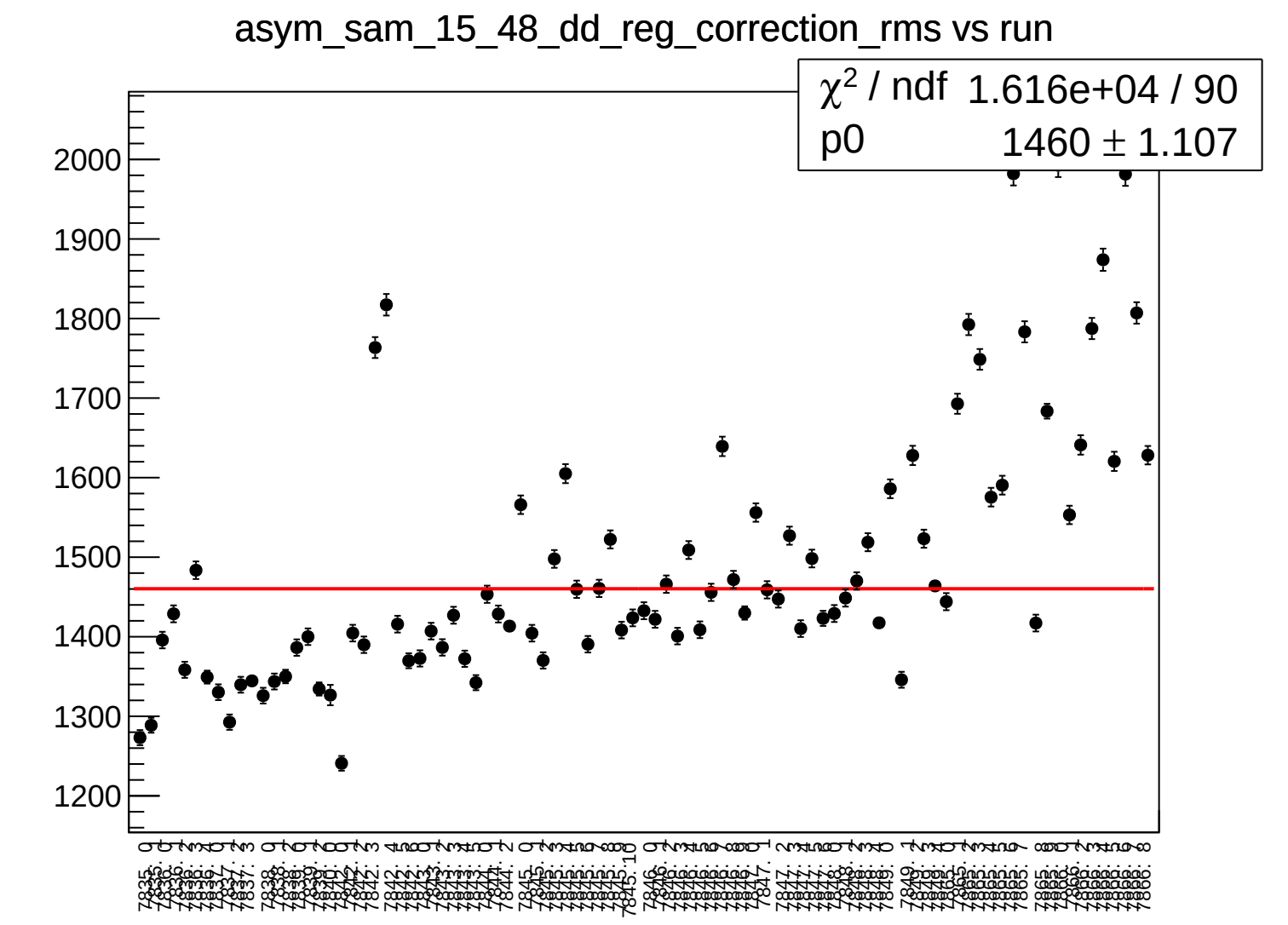

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.47 / 90
p0 −26.13 ± 95.58
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −7.954
Std Dev 0
2
1
0
−1
−2

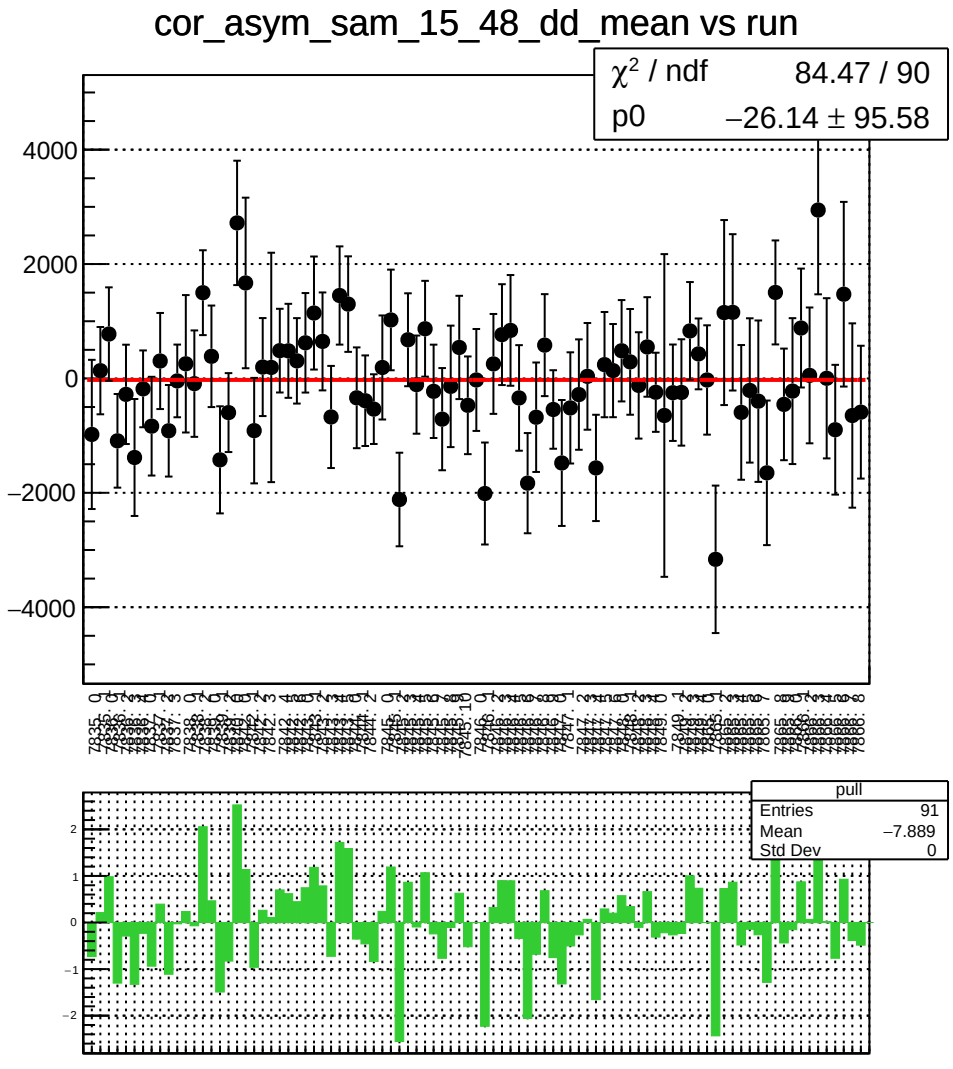

pull1D
Entries 91
Mean 0.002724
Std Dev 0.9634
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

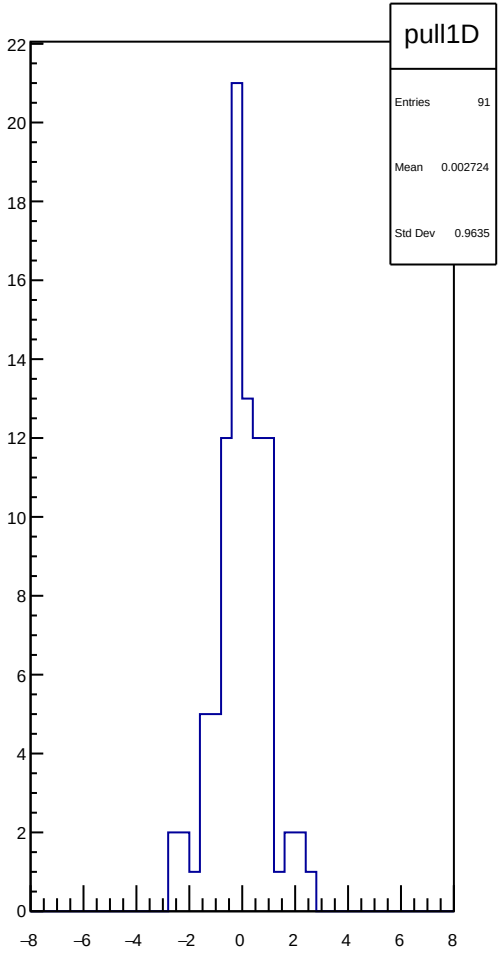

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.889e+04 / 90
p0 88.02 ± 0.06759
250
200
150
100
50

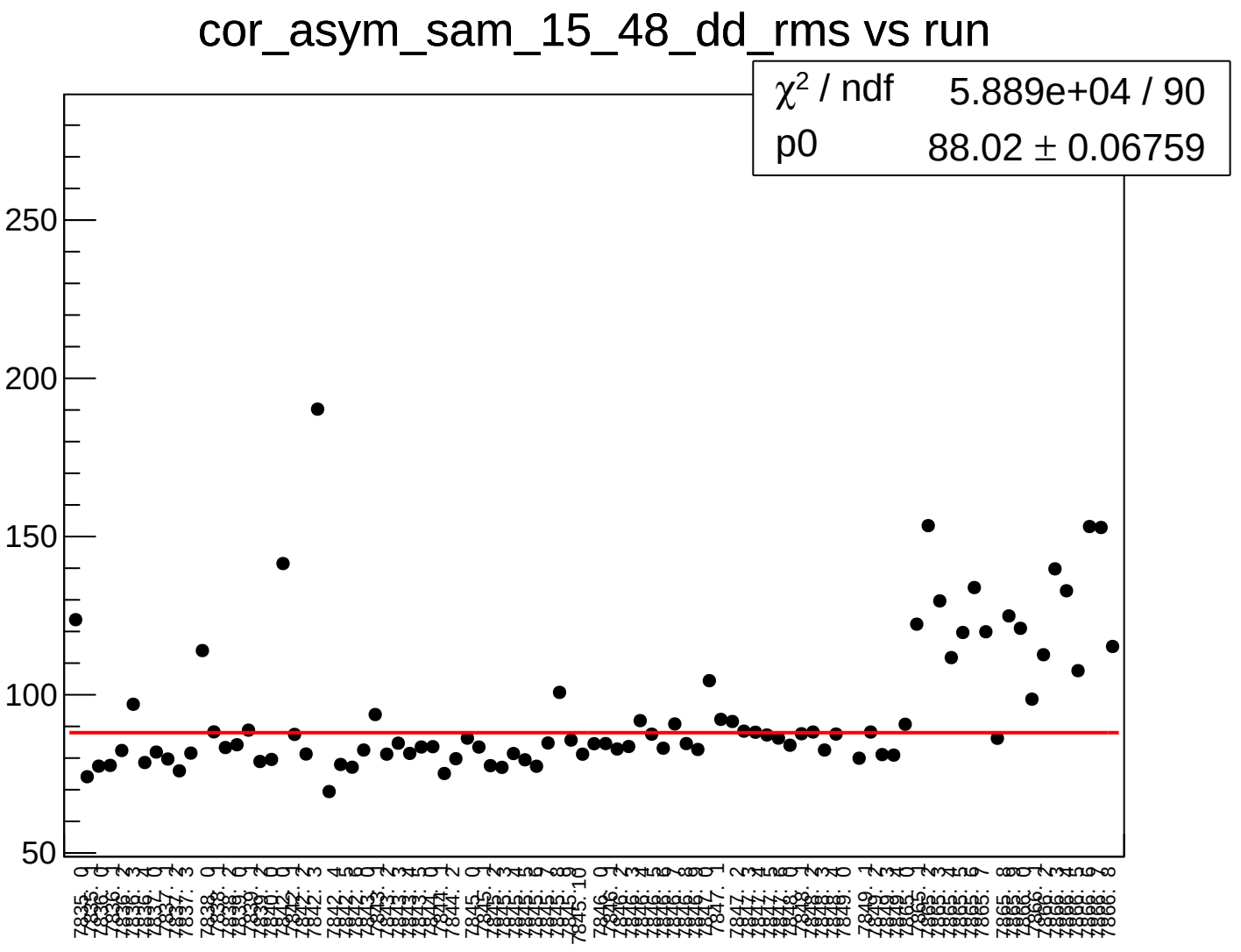

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 79.19 / 90
p0 322.6 ± 1566
pull
Entries 91
Mean 136.9
Std Dev 0

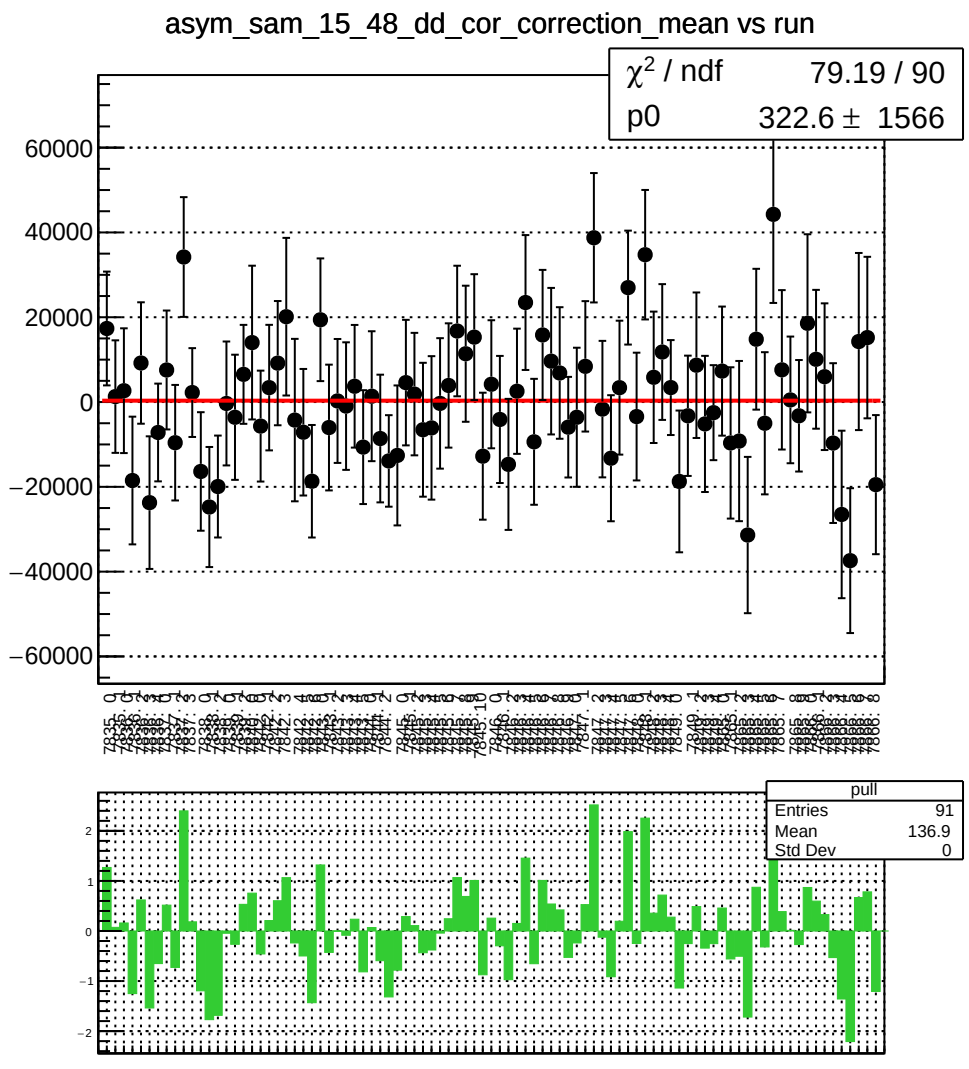

pull1D
Entries 91
Mean 0.01636
Std Dev 0.9327

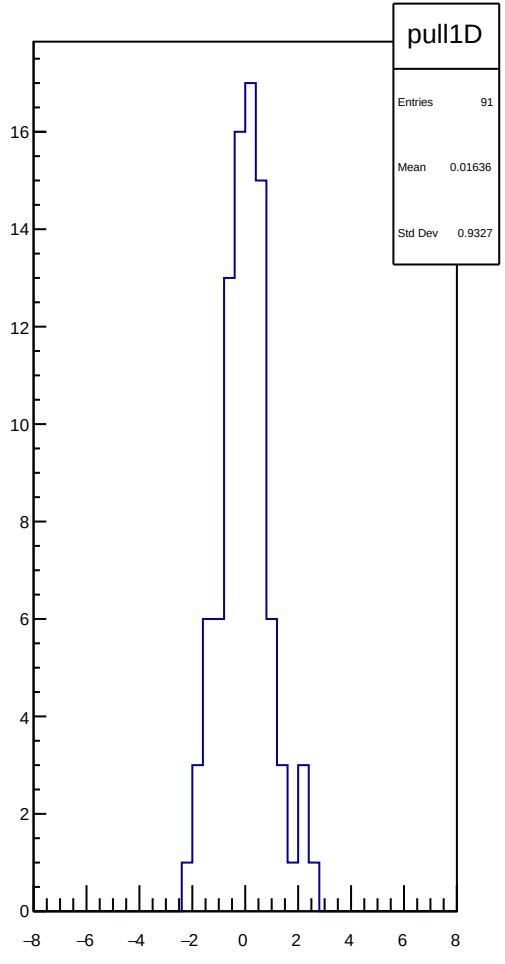

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.616e+04 / 90
p0 1460 ± 1.107
2000
1900
1800
1700
1600
1500
1400
1300
1200

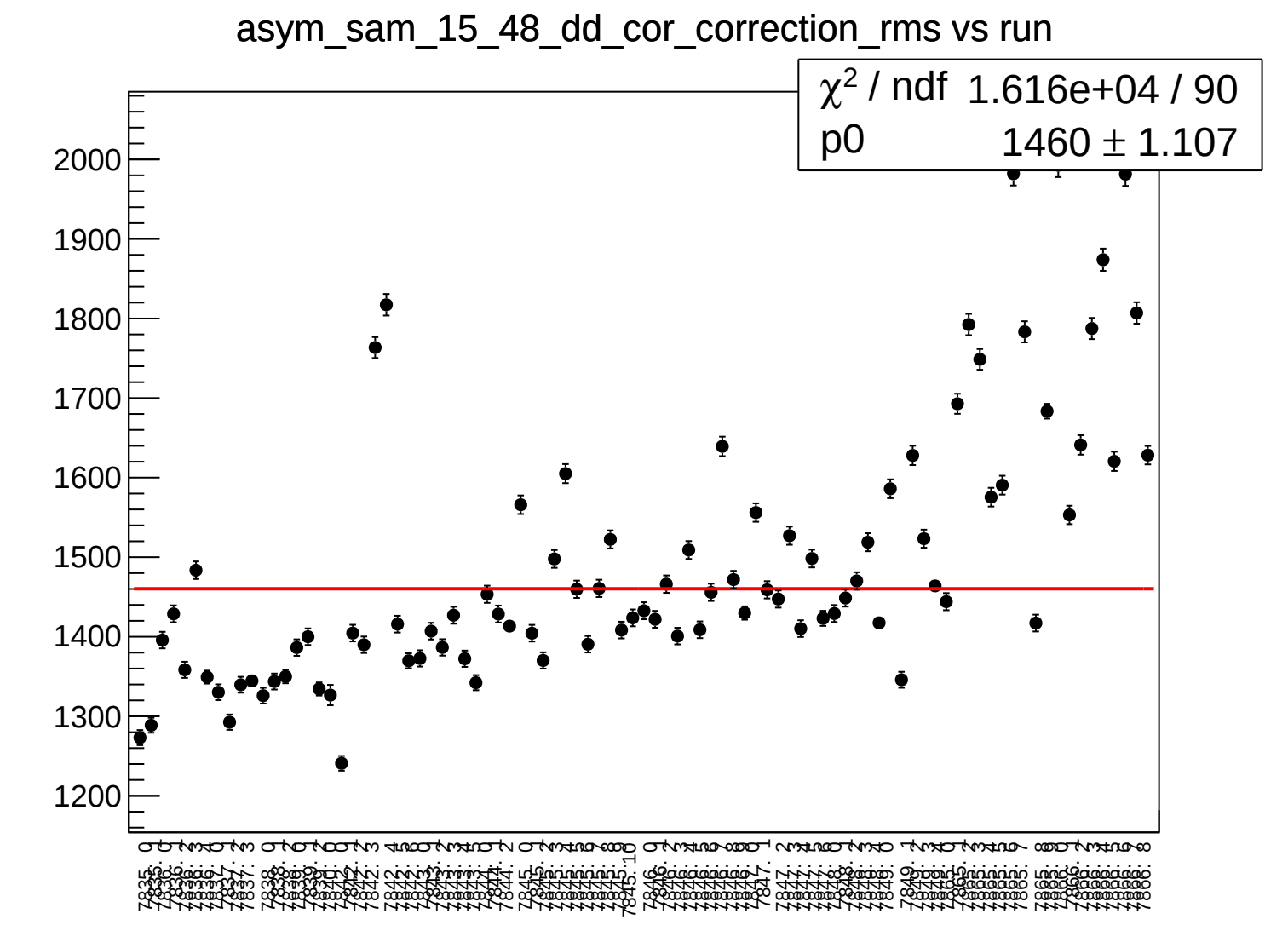

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.47 / 90
p0 −26.14 ± 95.58
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −7.889
Std Dev 0
2
1
0
−1
−2

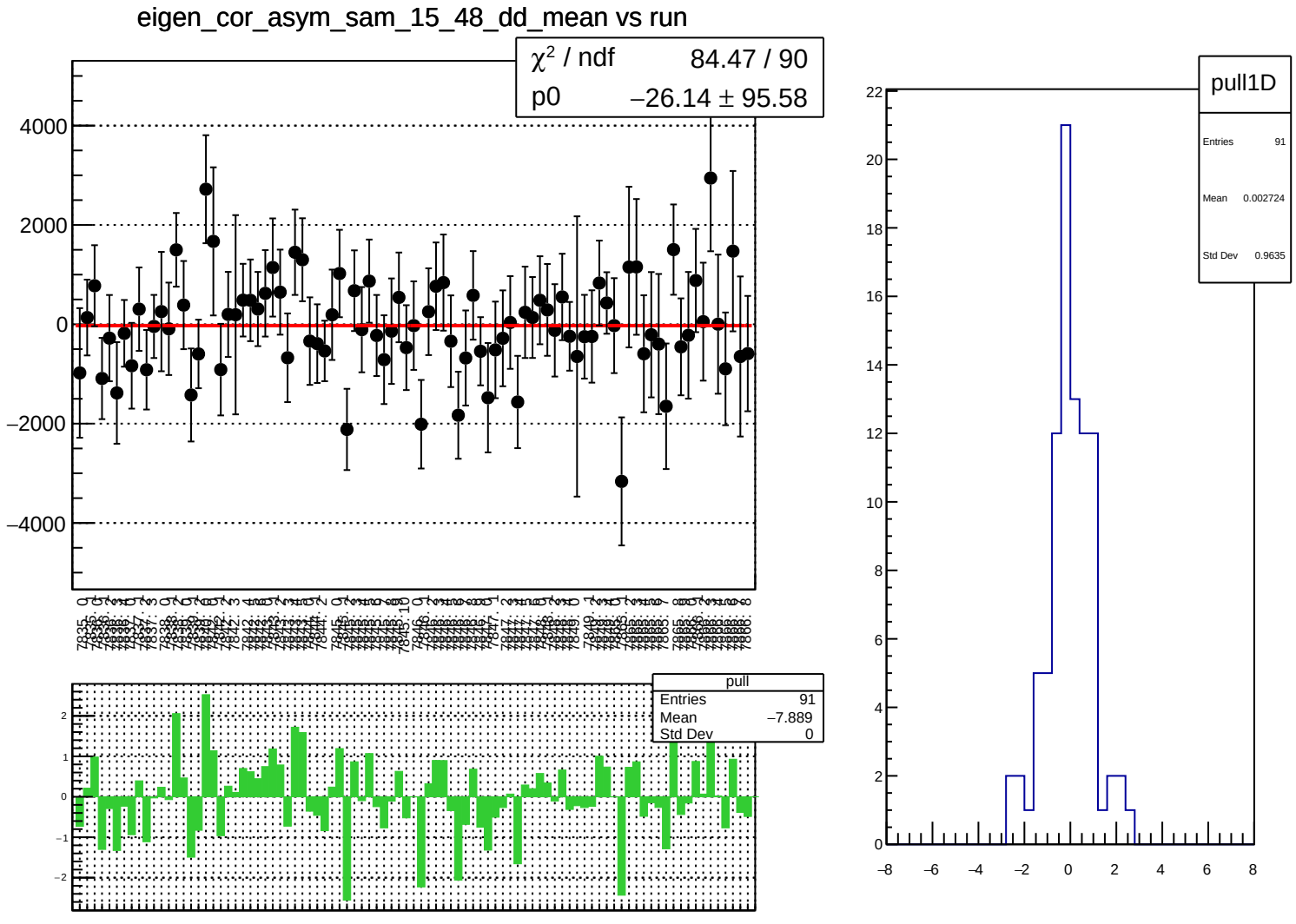

pull1D
Entries 91
Mean 0.002724
Std Dev 0.9635
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

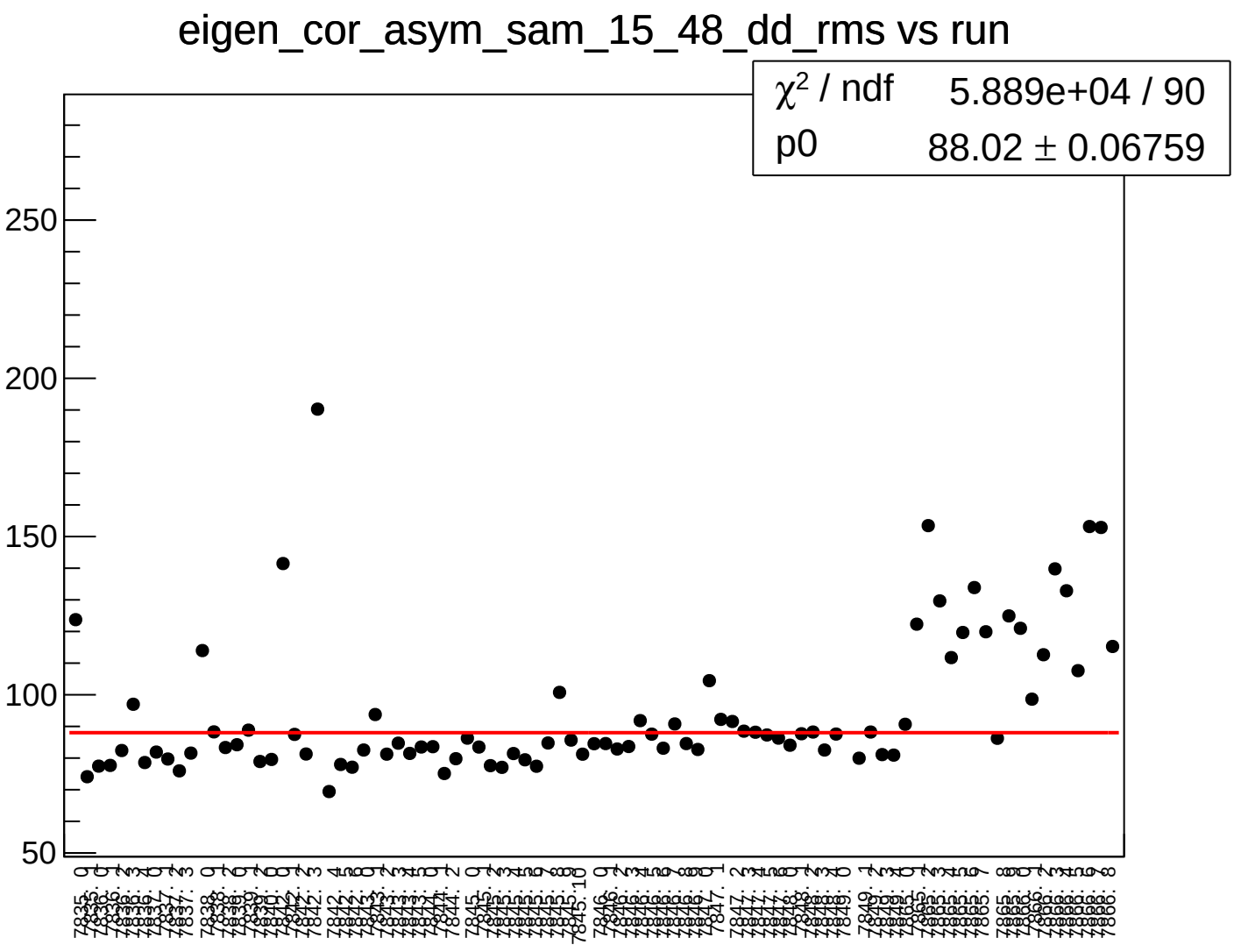

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.889e+04 / 90
p0 88.02 ± 0.06759
250
200
150
100
50

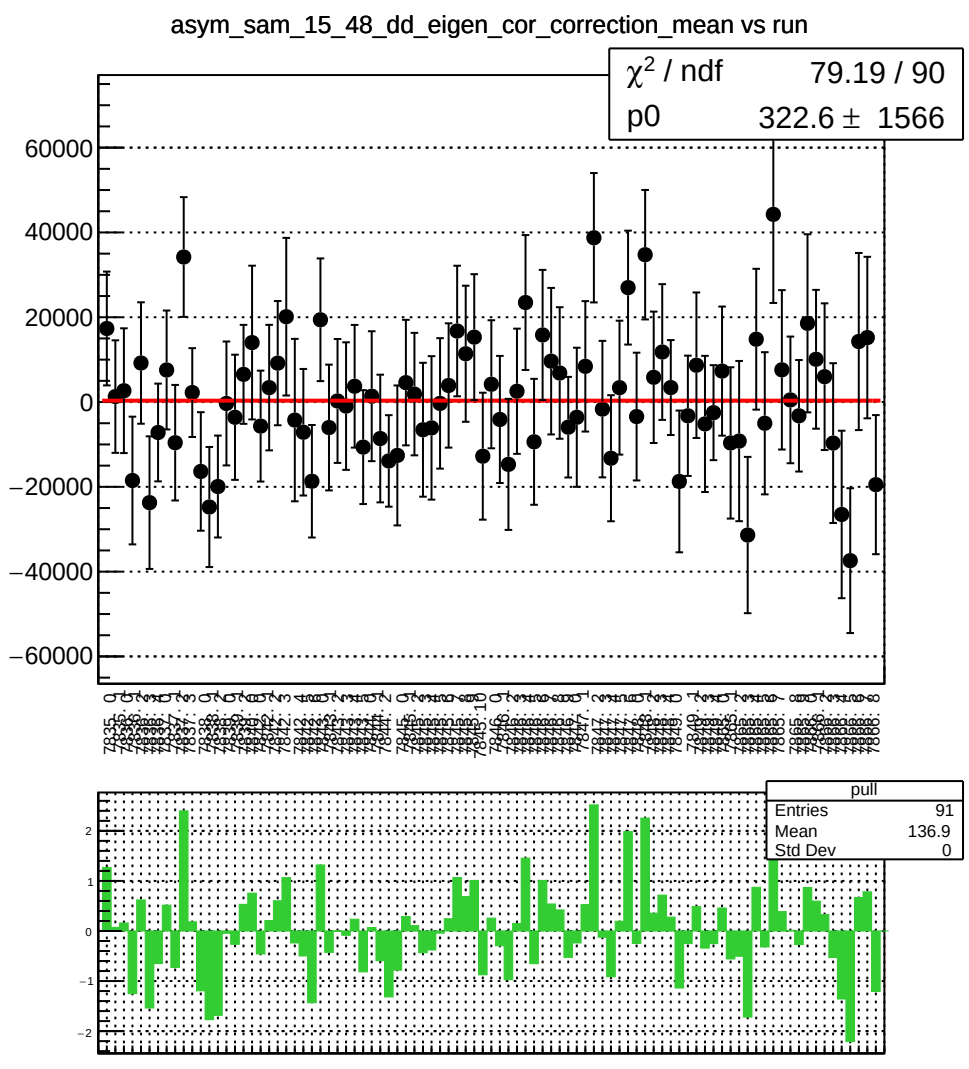

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 79.19 / 90
p0 322.6 ± 1566
pull
Entries 91
Mean 136.9
Std Dev 0

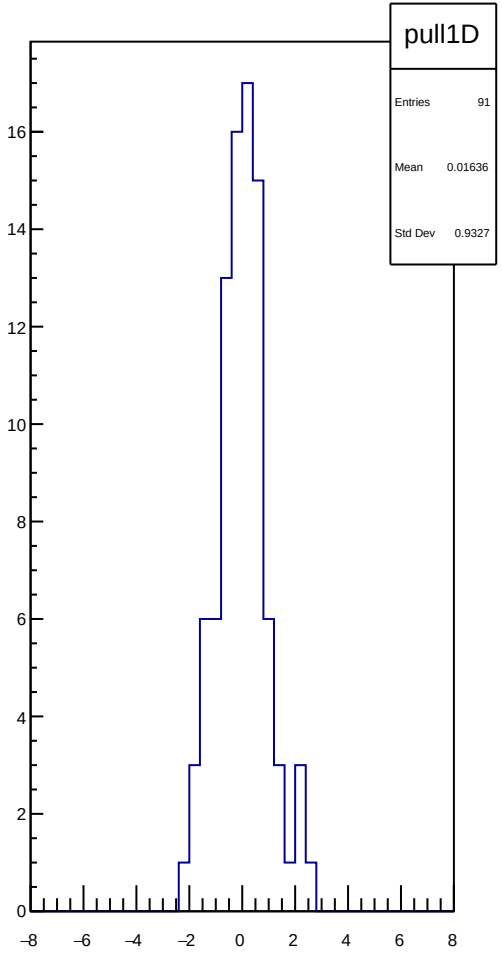

pull1D
Entries 91
Mean 0.01636
Std Dev 0.9327

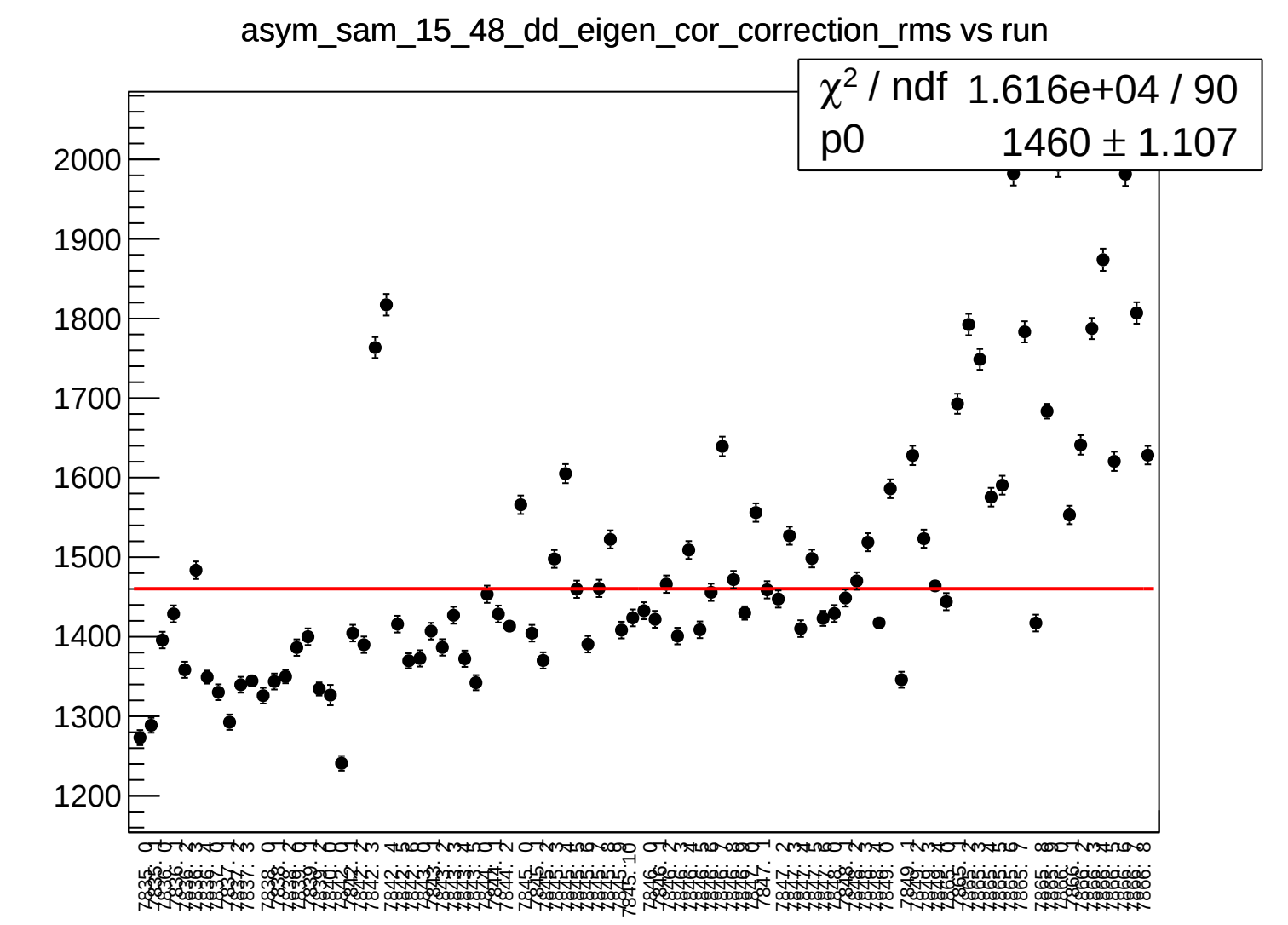

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.616e+04 / 90
p0 1460 ± 1.107
2000
1900
1800
1700
1600
1500
1400
1300
1200

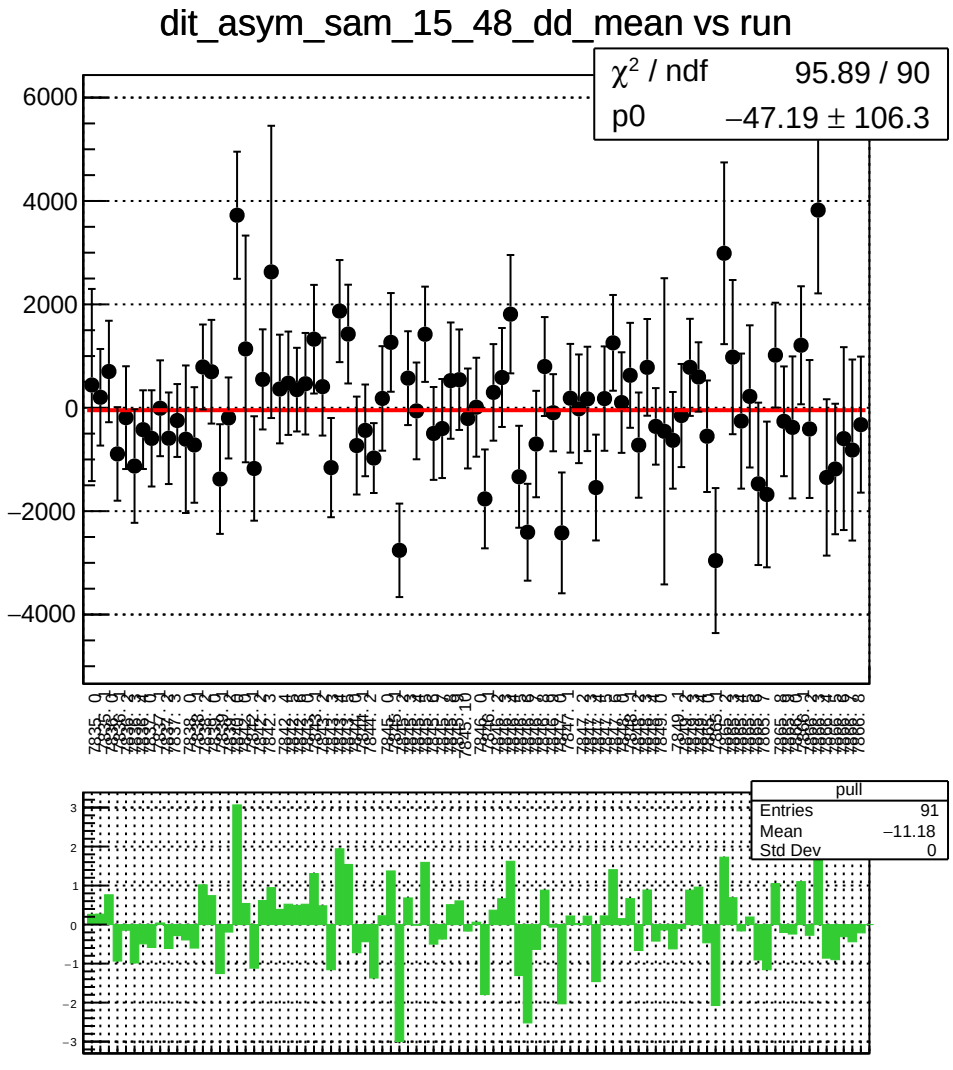

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.47 / 90
p0 −26.14 ± 95.58
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −7.889
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.002724
Std Dev 0.9635
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

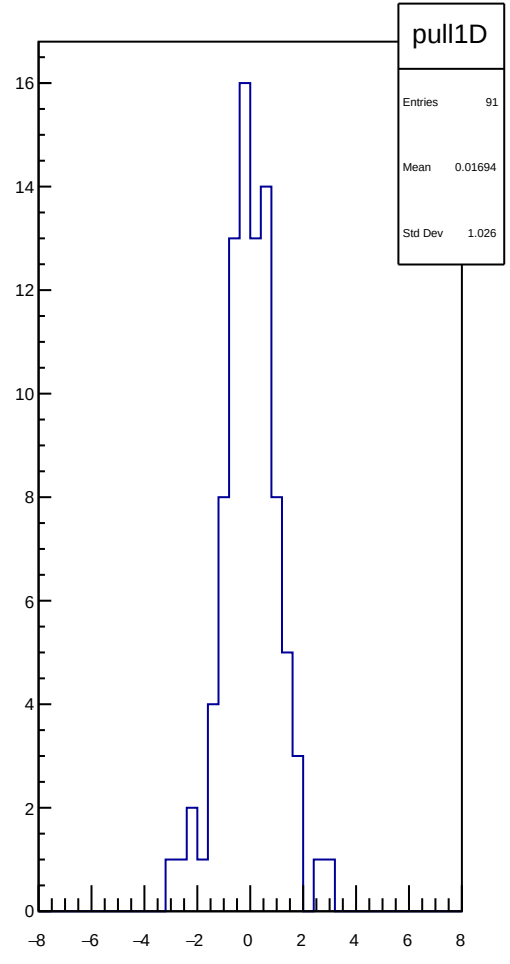

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.889e+04 / 90
p0 88.02 ± 0.06759
250
200
150
100
50

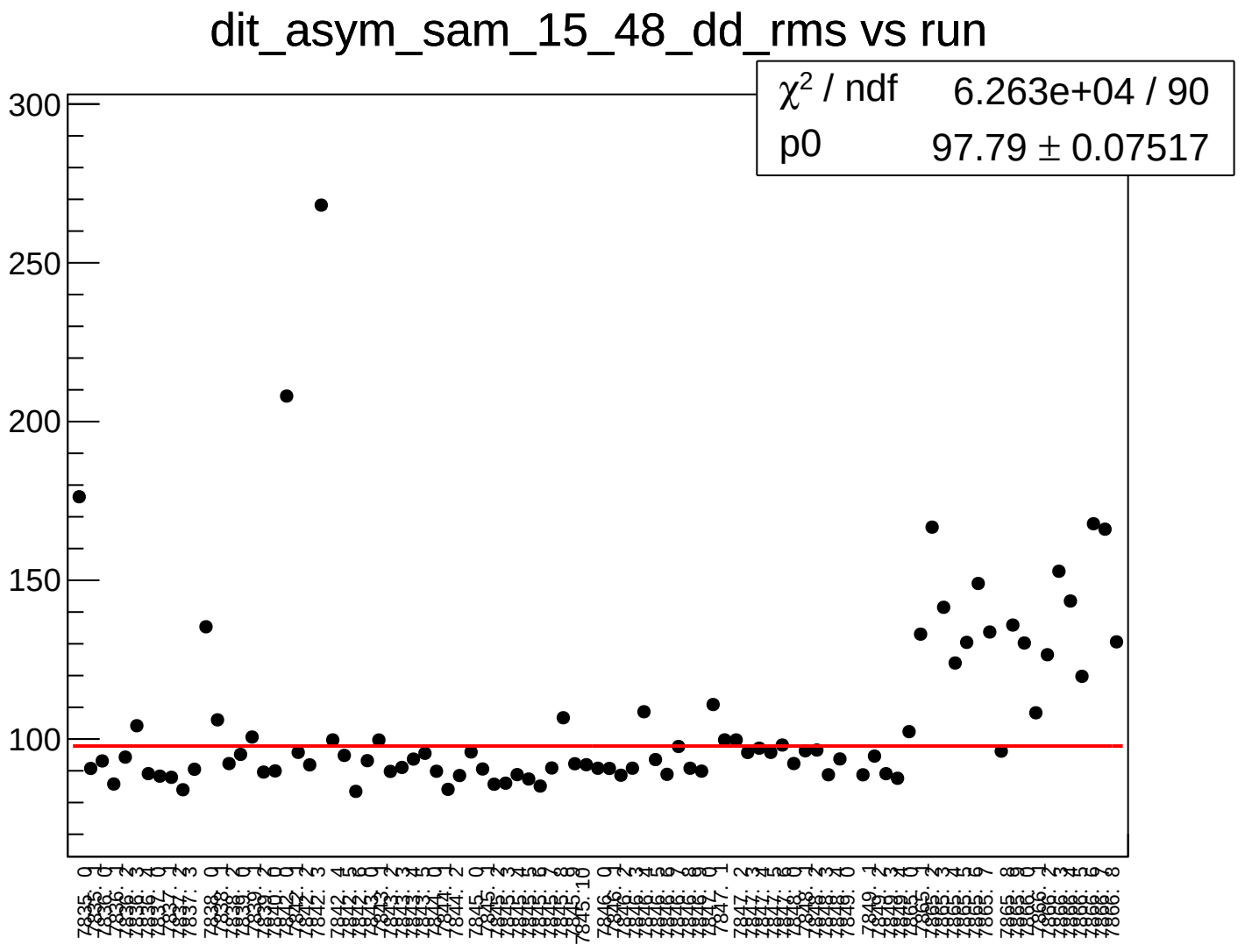

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.19 / 90
p0 322.6 ± 1566
pull
Entries 91
Mean 136.9
Std Dev 0

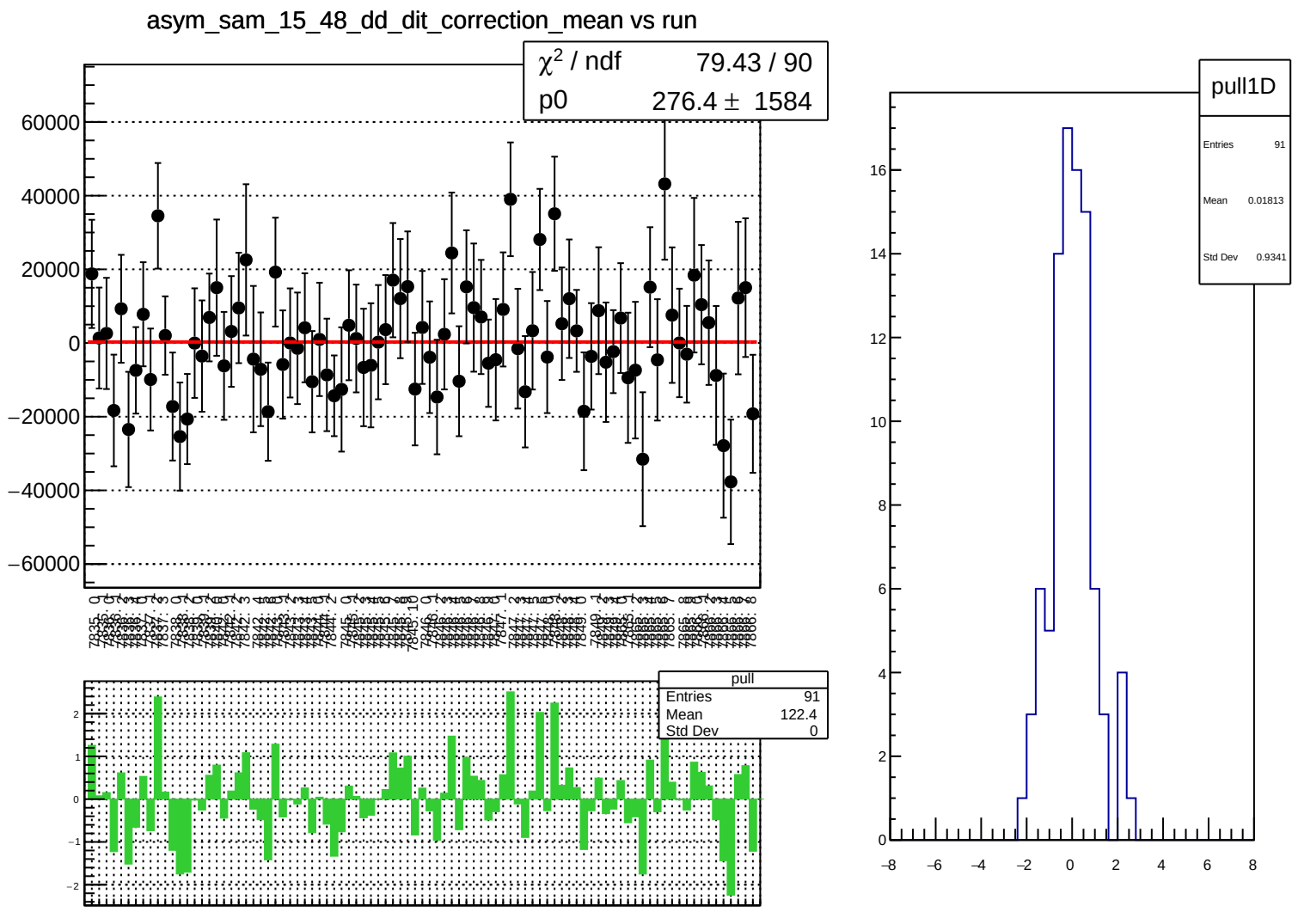

pull1D
Entries 91
Mean 0.01636
Std Dev 0.9327

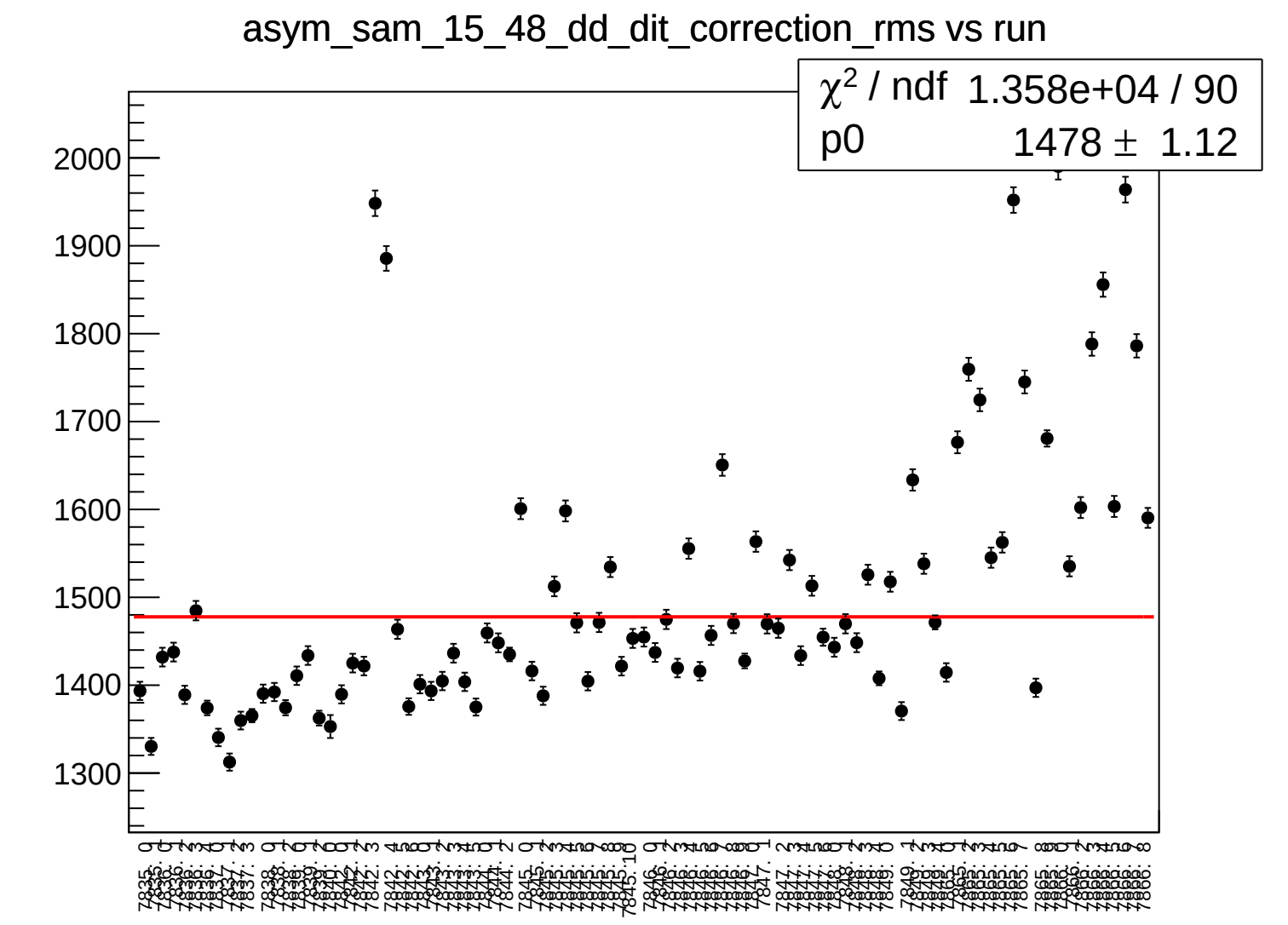

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.616e+04 / 90
p0 1460 ± 1.107
2000
1900
1800
1700
1600
1500
1400
1300
1200

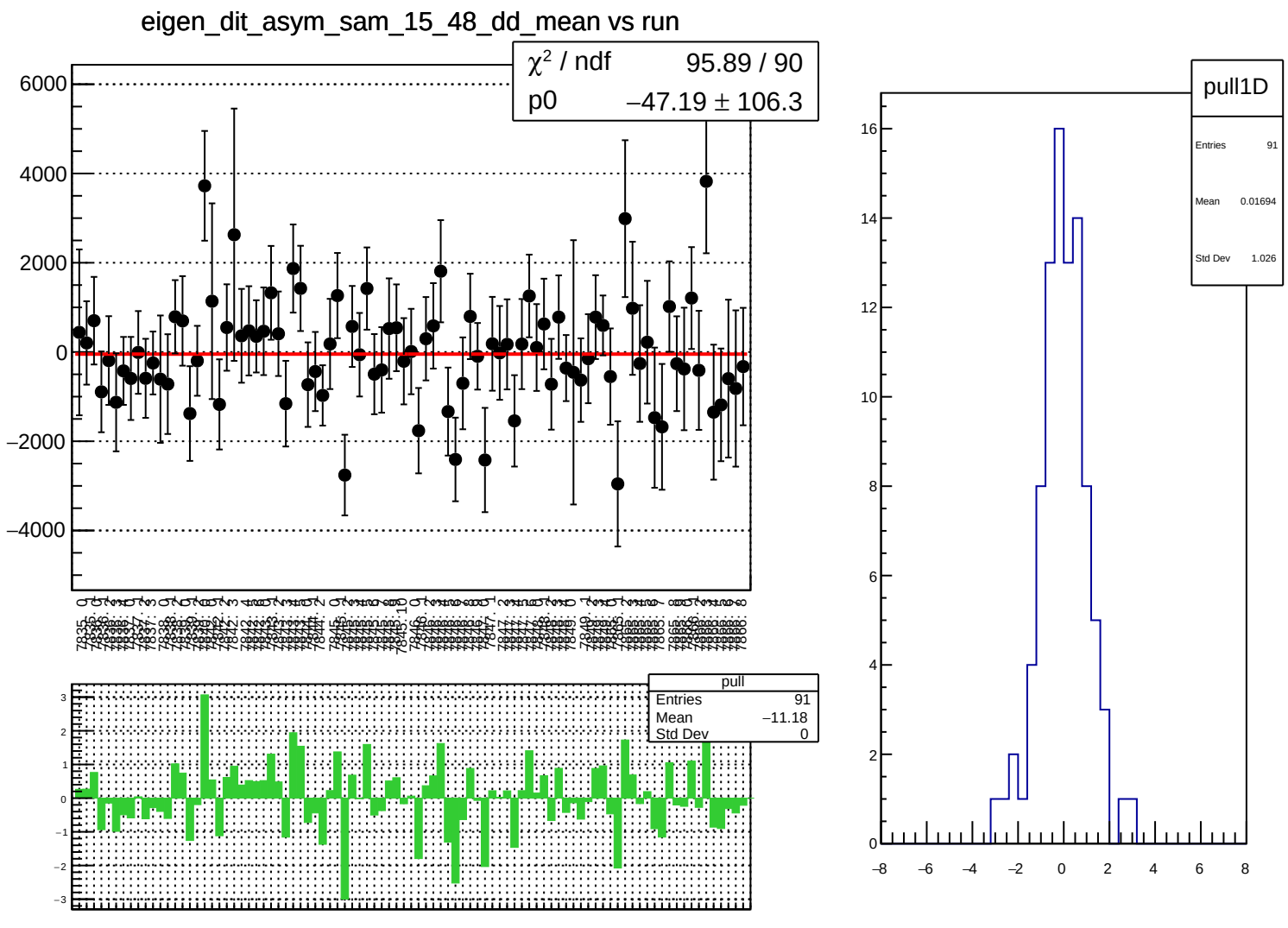

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.89 / 90
p0 −47.19 ± 106.3
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −11.18
Std Dev 0
3
2
1
0
−1
−2
−3

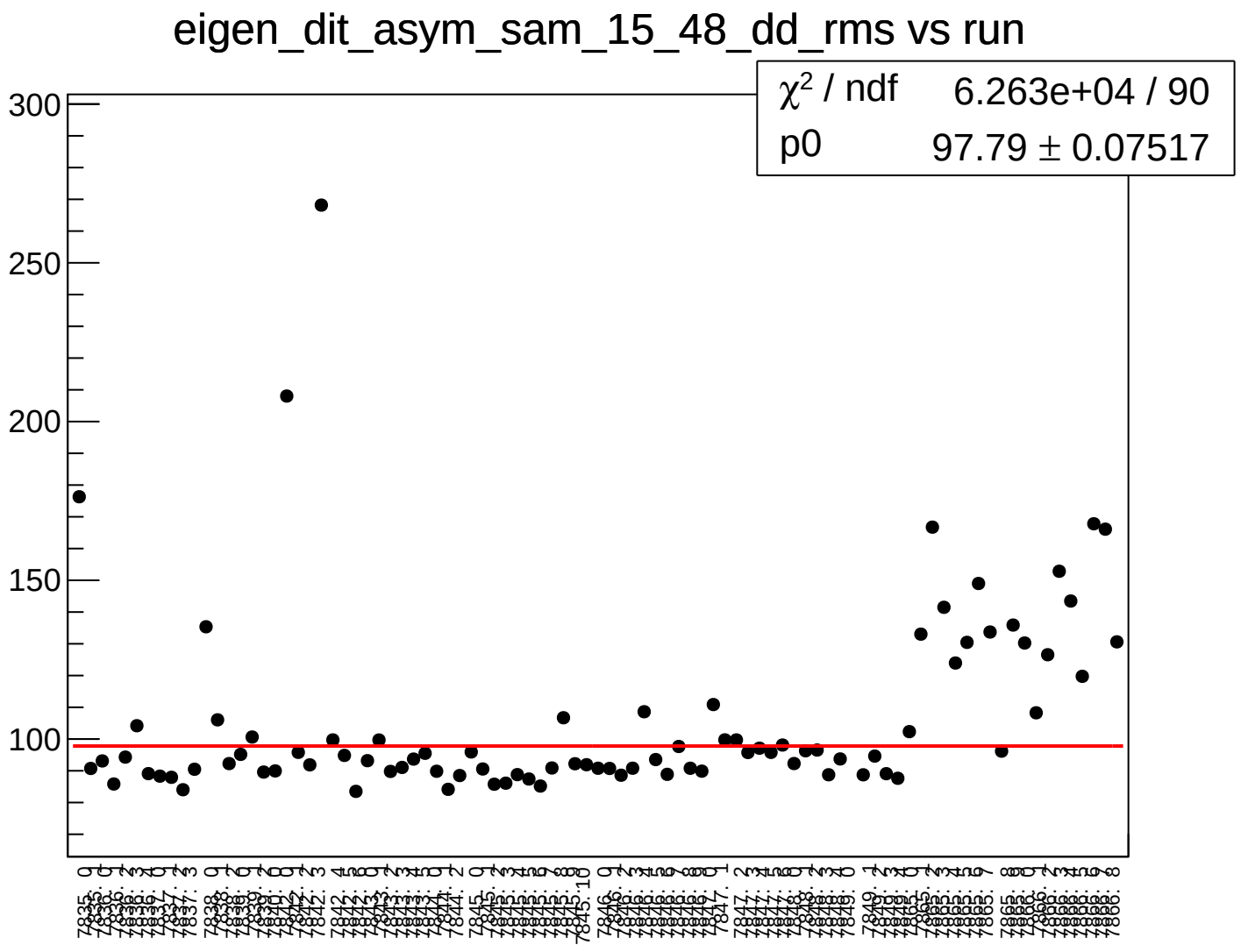

pull1D
Entries 91
Mean 0.01694
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

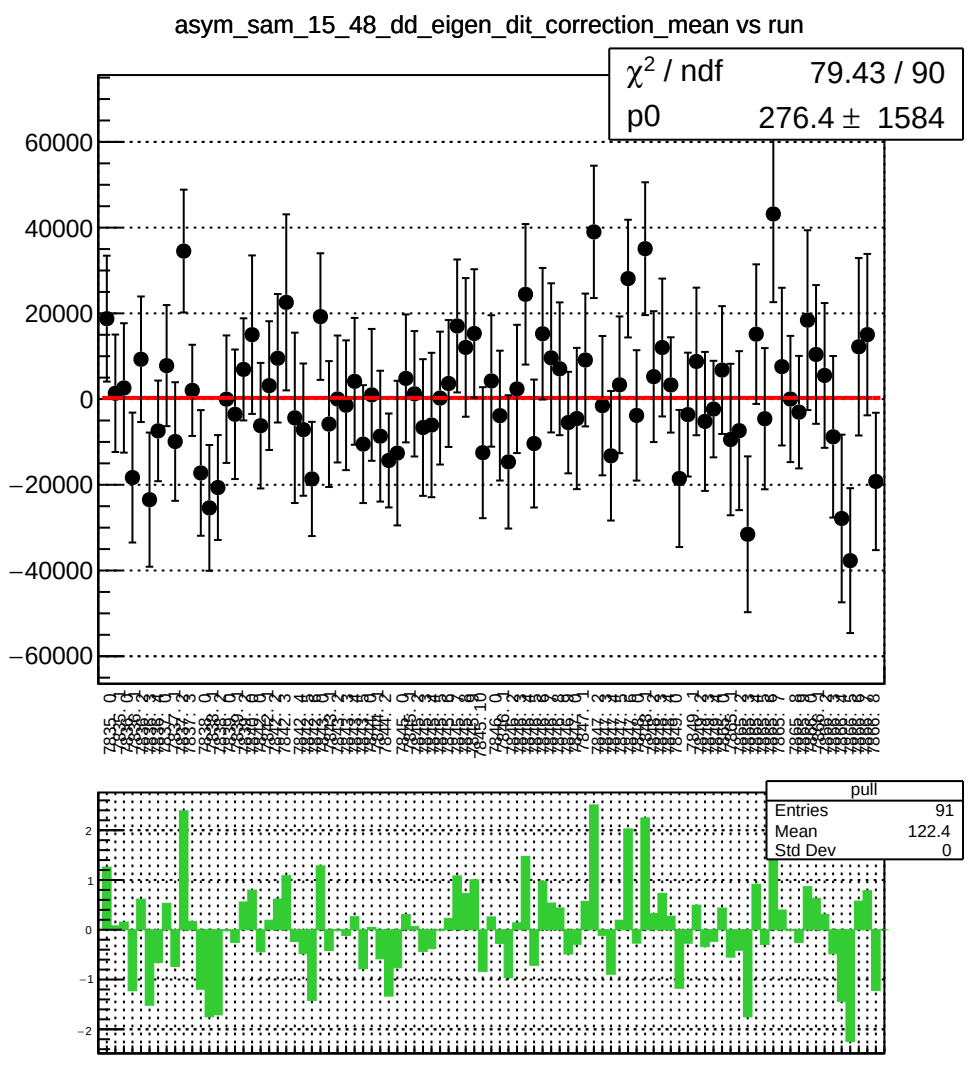

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6.263e+04 / 90
p0 97.79 ± 0.07517
300
250
200
150
100

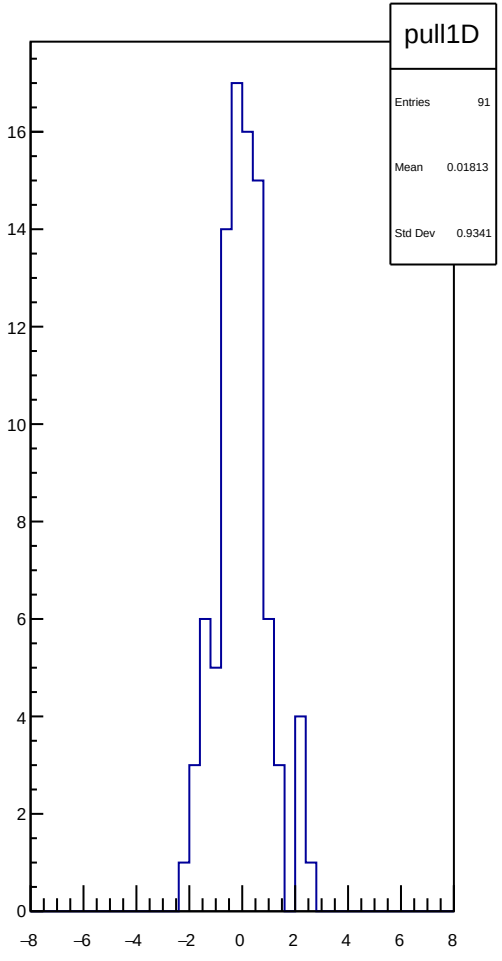

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 79.43 / 90
p0 276.4 ± 1584
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 122.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01813
Std Dev 0.9341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

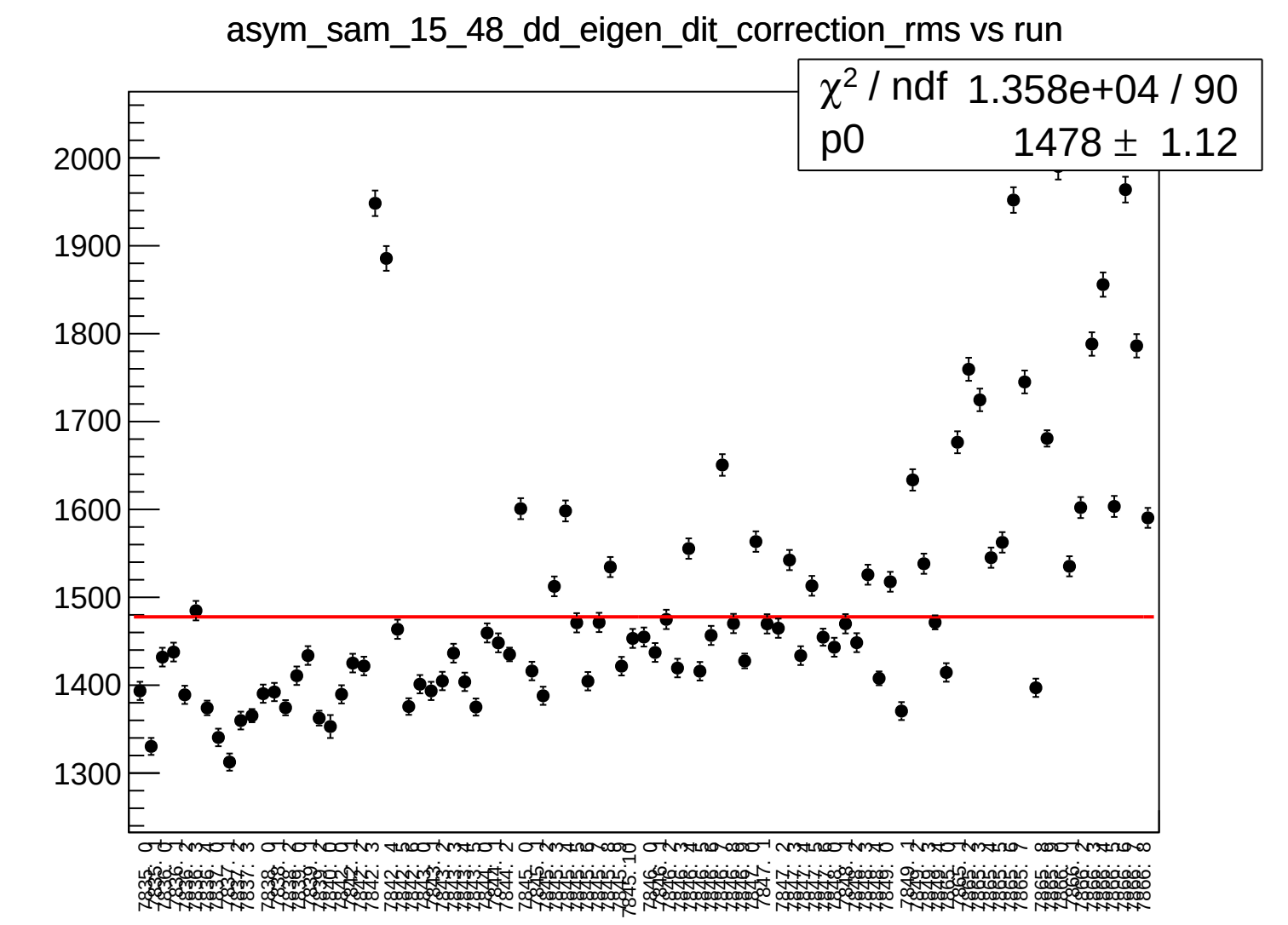

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.358e+04 / 90
p0 1478 ± 1.12
2000
1900
1800
1700
1600
1500
1400
1300

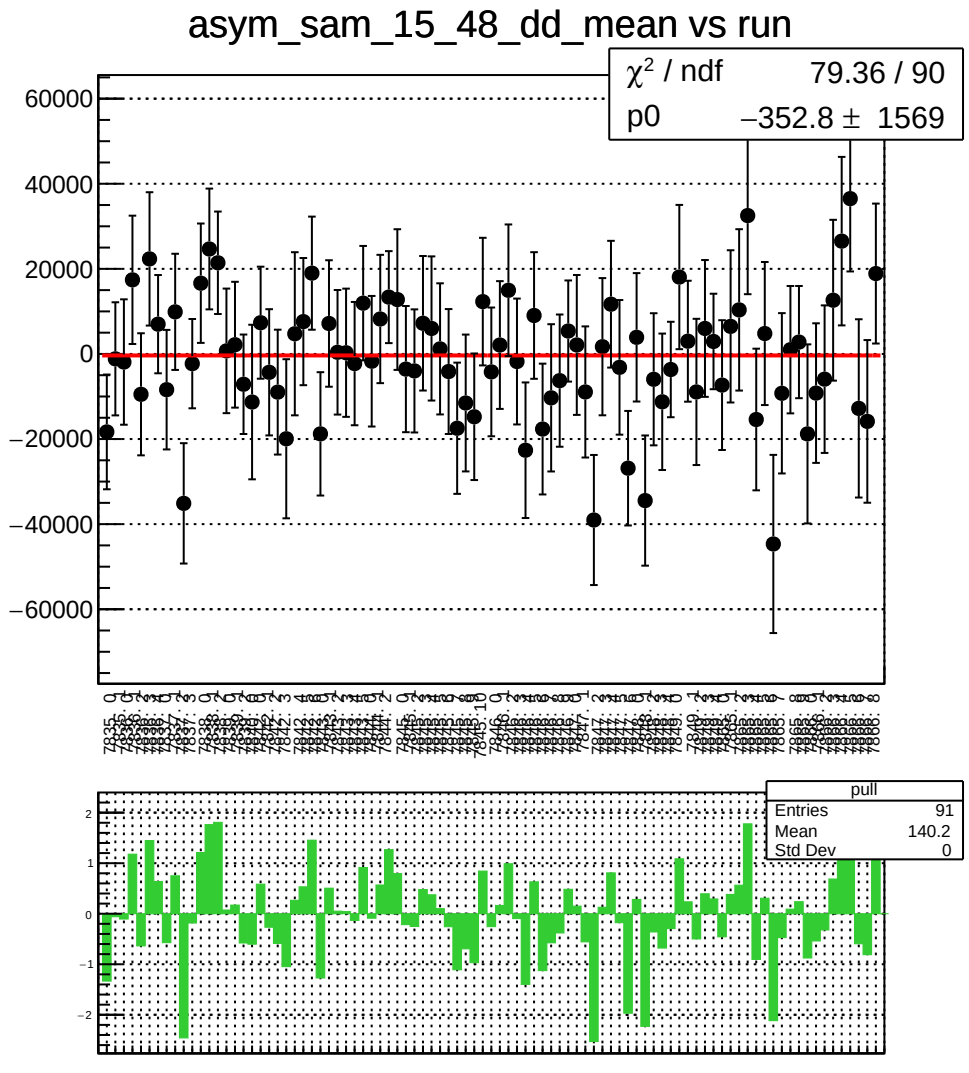

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.89 / 90
p0 −47.19 ± 106.3
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −11.18
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.01694
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

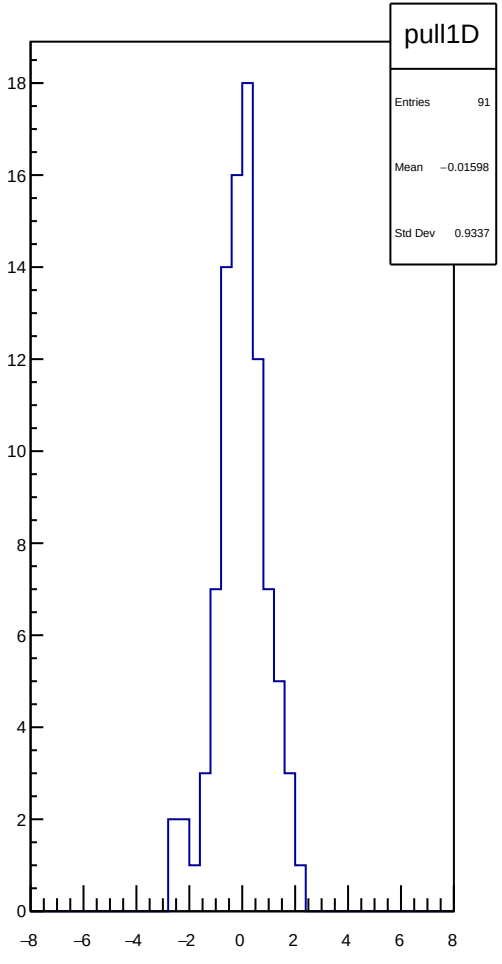

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6.263e+04 / 90
p0 97.79 ± 0.07517
300
250
200
150
100

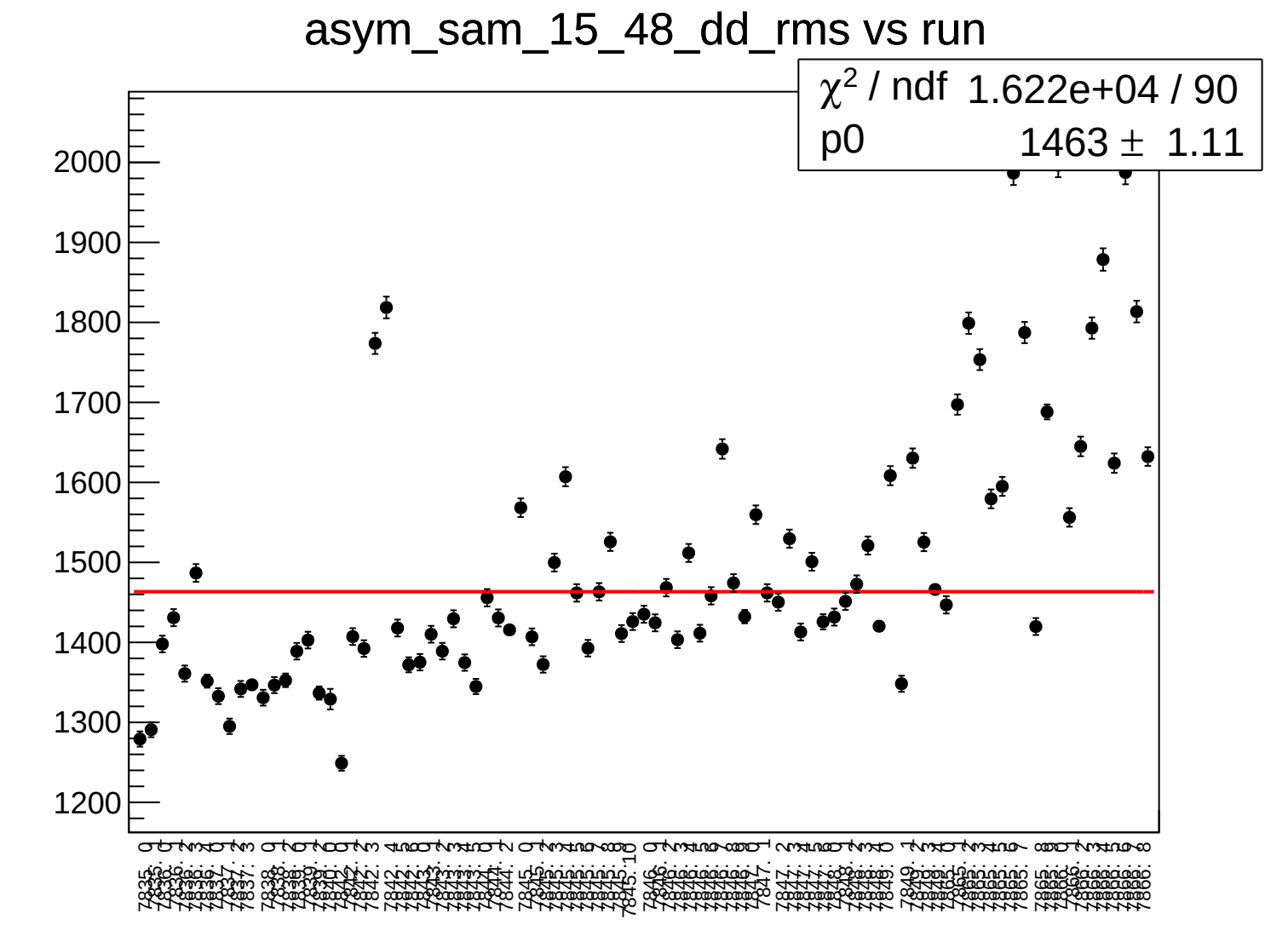

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.43 / 90
p0 276.4 ± 1584
pull
Entries 91
Mean 122.4
Std Dev 0

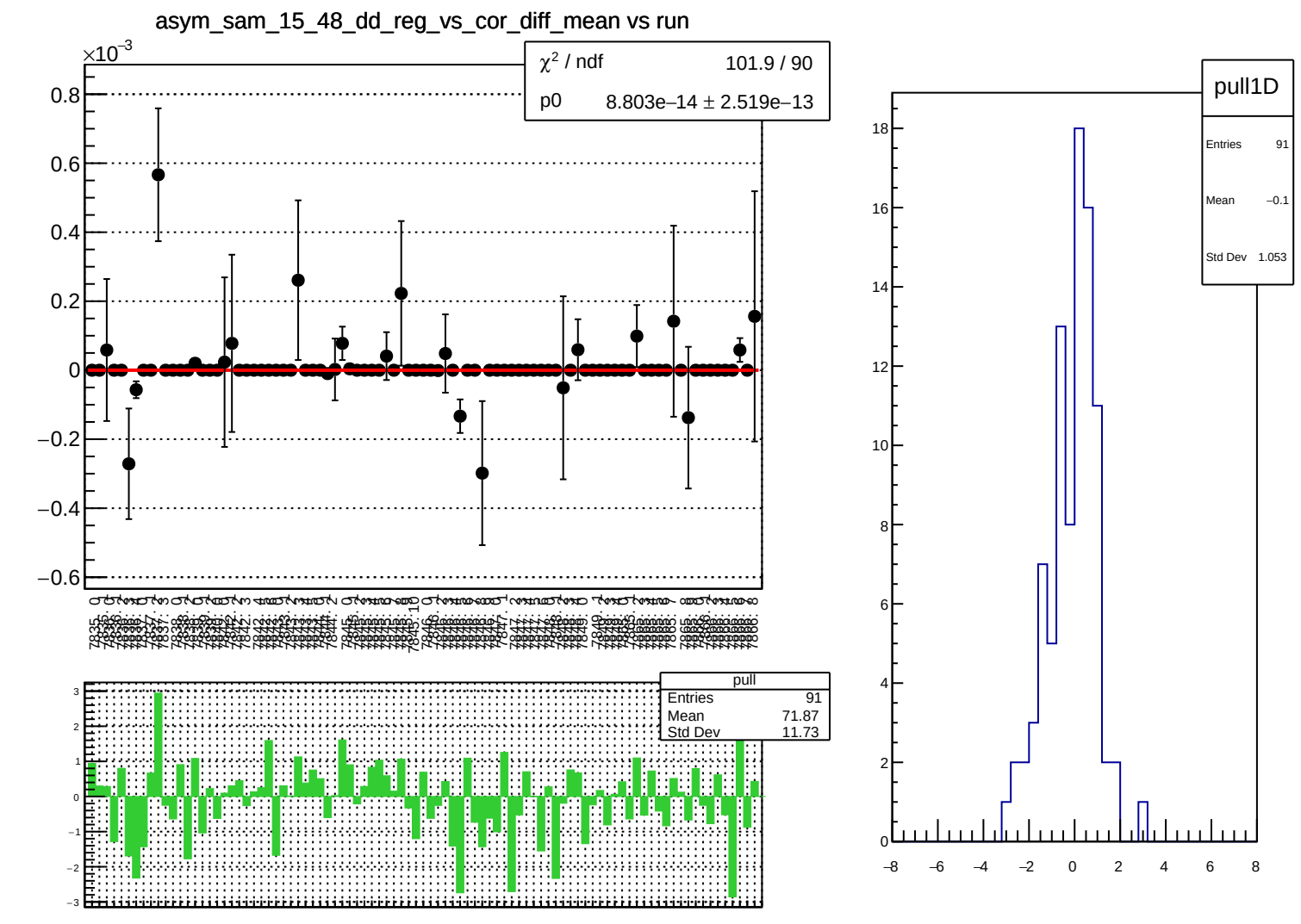

pull1D
Entries 91
Mean 0.01813
Std Dev 0.9341

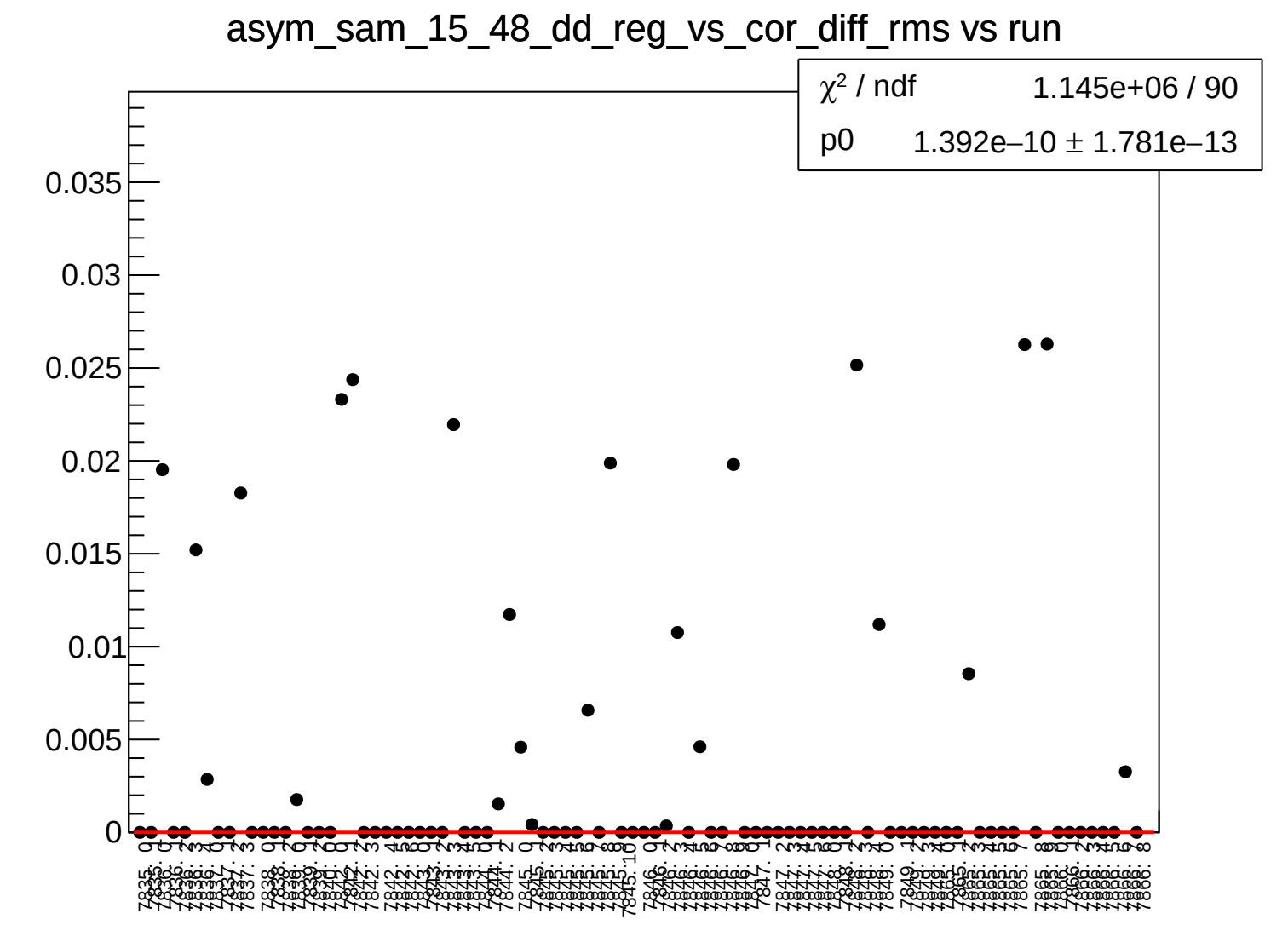

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.358e+04 / 90
p0 1478 ± 1.12
2000
1900
1800
1700
1600
1500
1400
1300

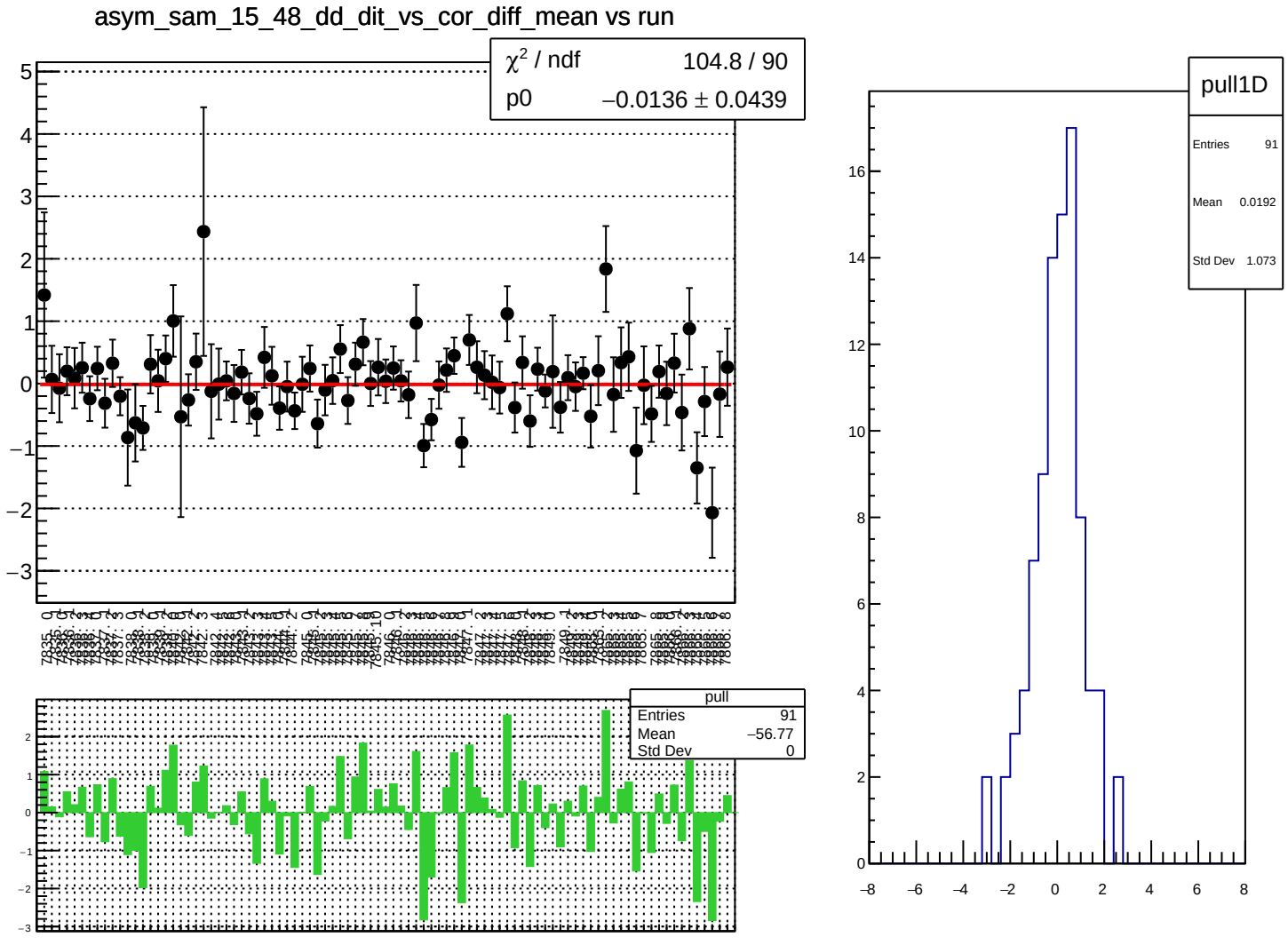

asym_sam_15_48_dd_mean vs run
χ² / ndf 79.36 / 90
p0 −352.8 ± 1569
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 140.2
Std Dev 0
2
1
0
−1
−2

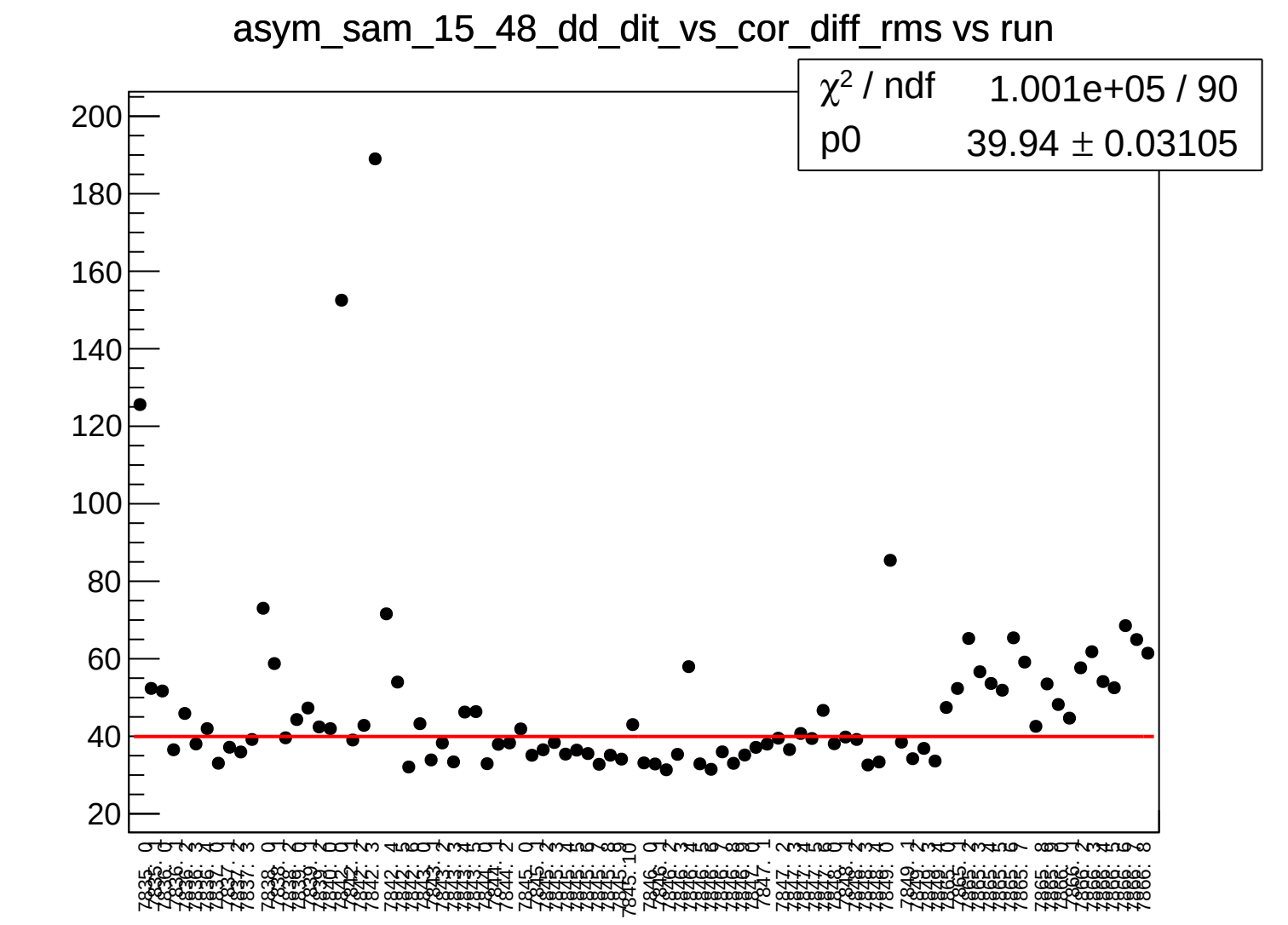

pull1D
Entries 91
Mean −0.01598
Std Dev 0.9337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

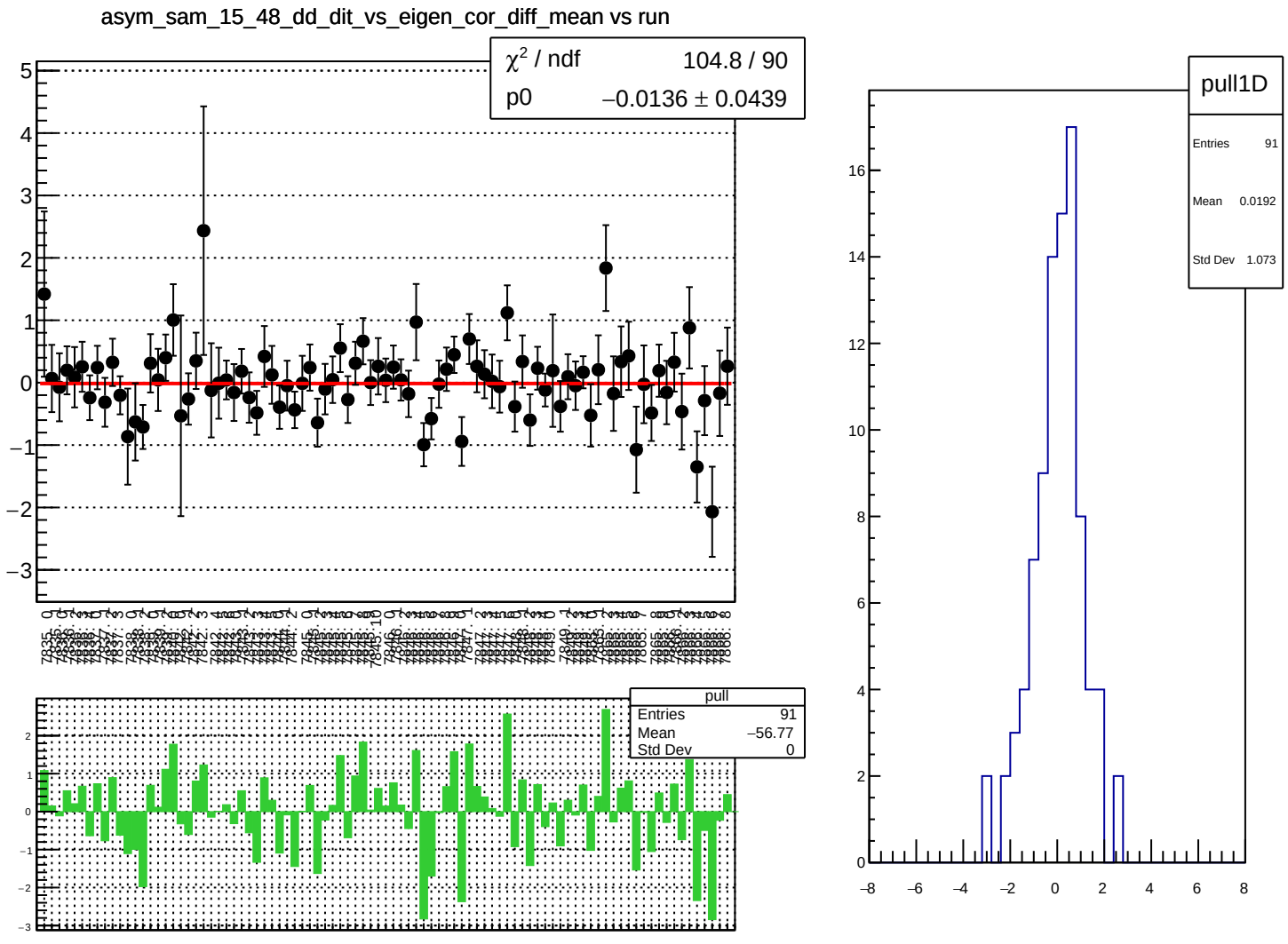

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.622e+04 / 90
p0 1463 ± 1.11
2000
1900
1800
1700
1600
1500
1400
1300
1200

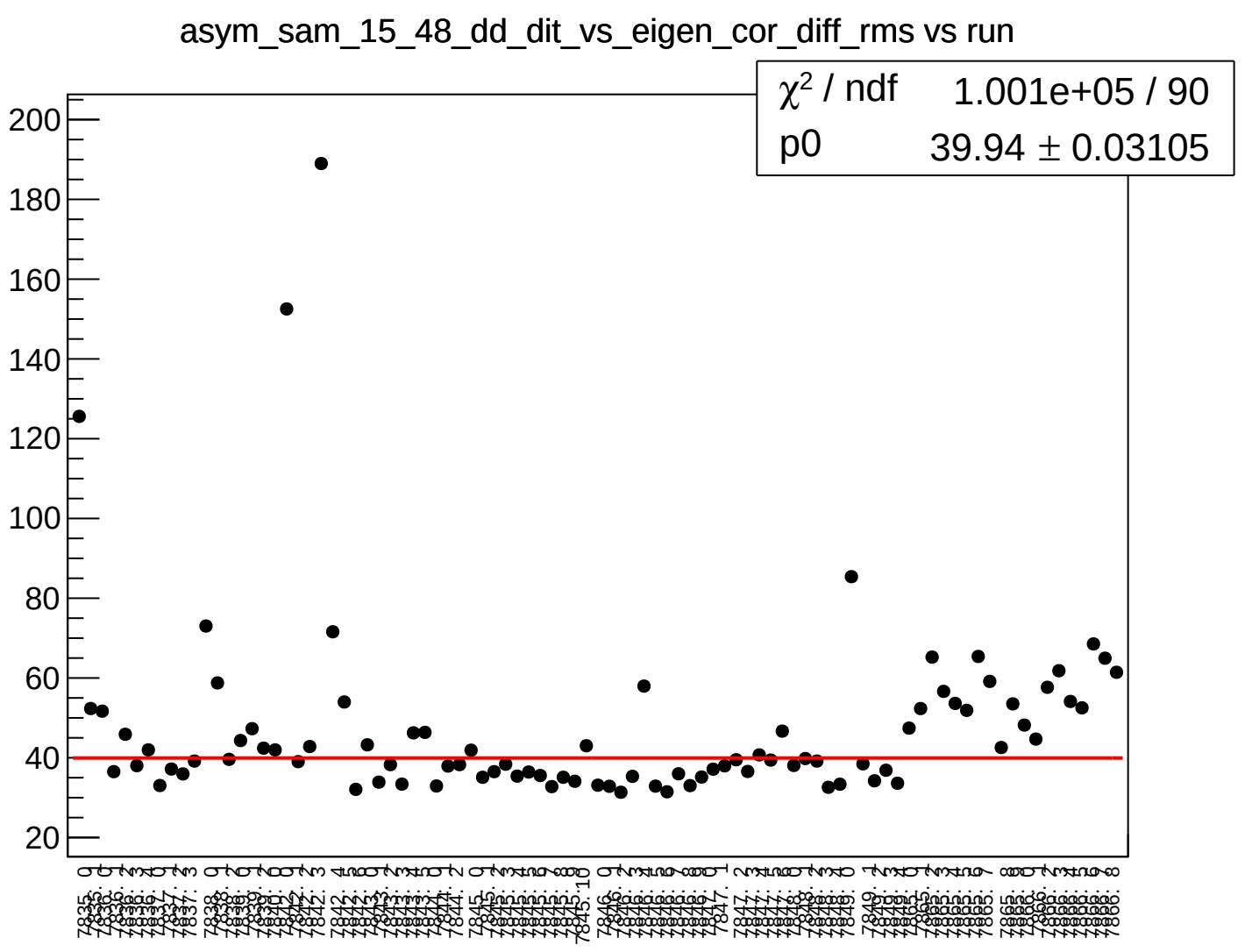

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 101.9 / 90
p0 8.803e−14 ± 2.519e−13
pull
Entries 91
Mean 71.87
Std Dev 11.73
pull1D
Entries 91
Mean −0.1
Std Dev 1.053

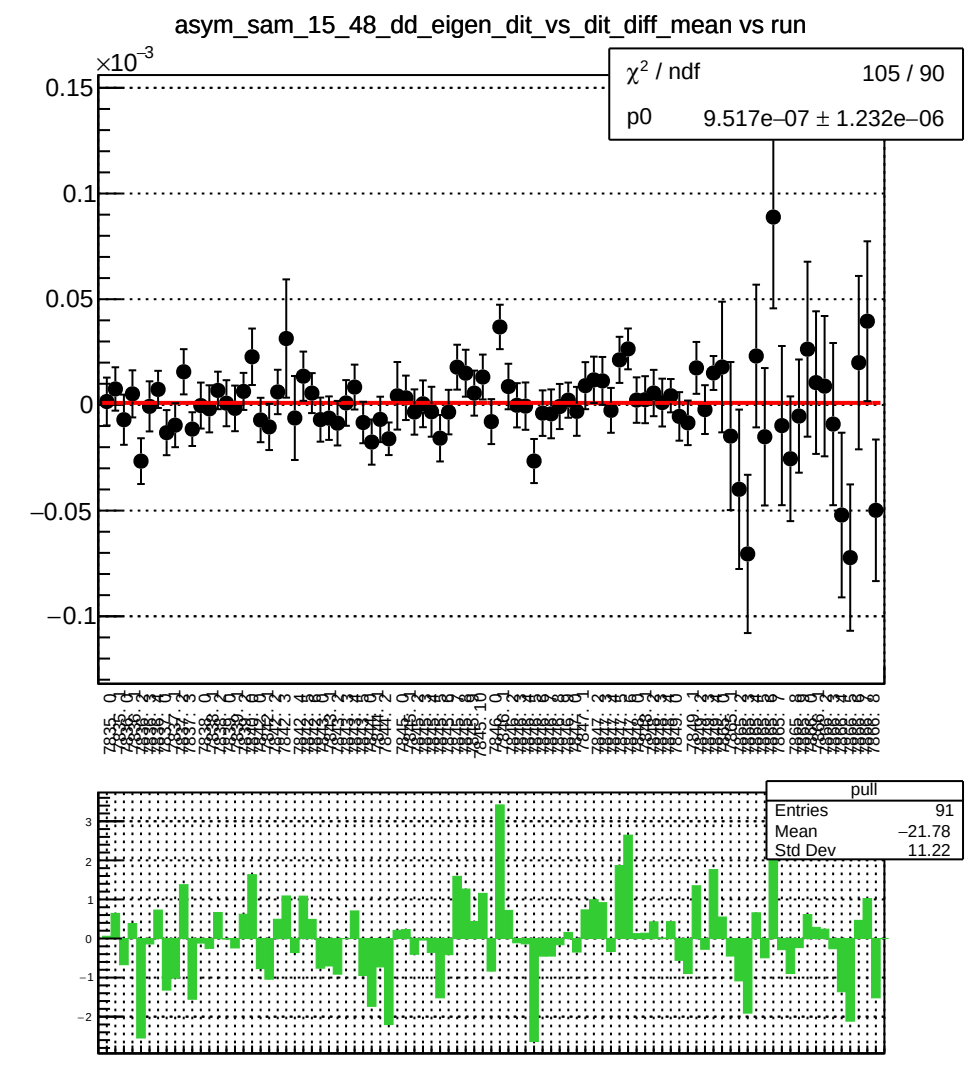

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 90
p0 1.392e−10 ± 1.781e−13
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

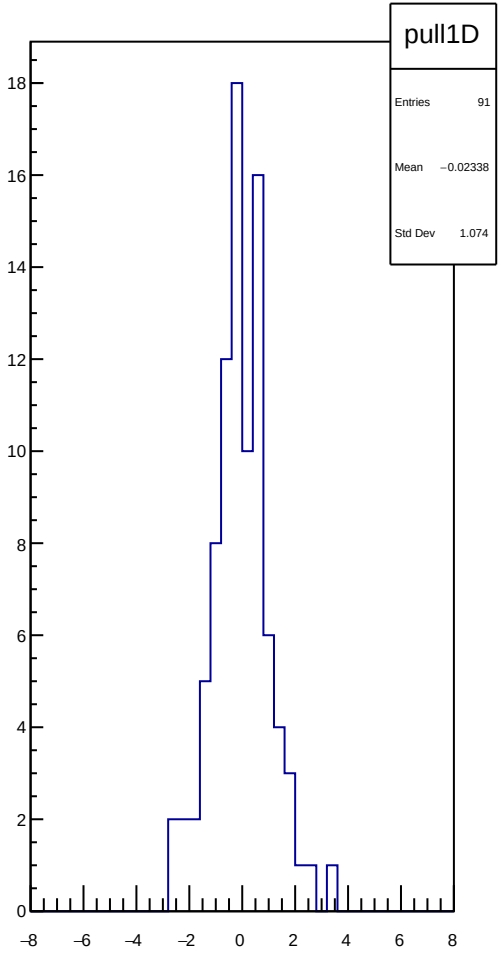

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 90
p0 −0.0136 ± 0.0439
pull
Entries 91
Mean −56.77
Std Dev 0
pull1D
Entries 91
Mean 0.0192
Std Dev 1.073

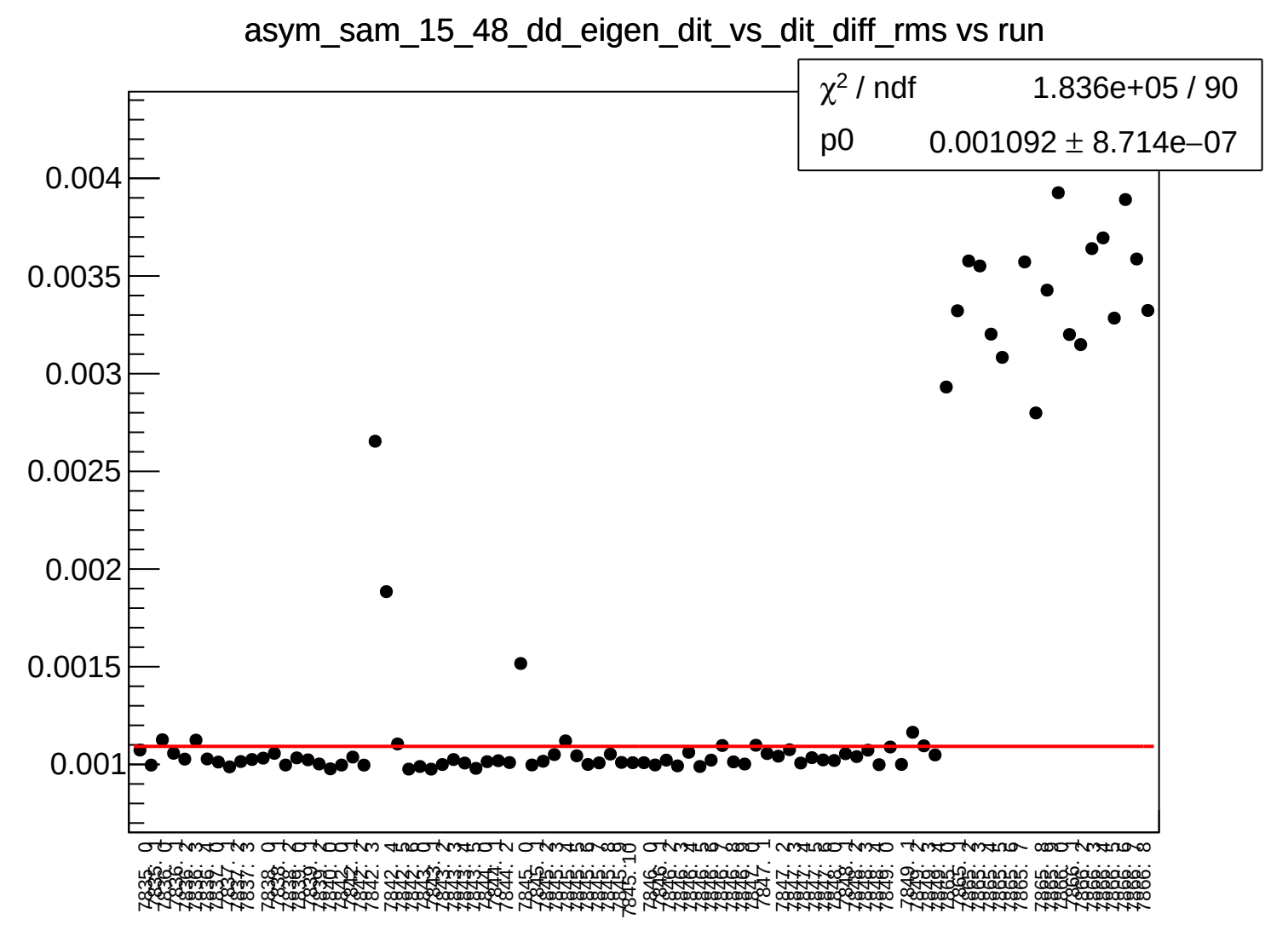

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 90
p0 39.94 ± 0.03105
200
180
160
140
120
100
80
60
40
20

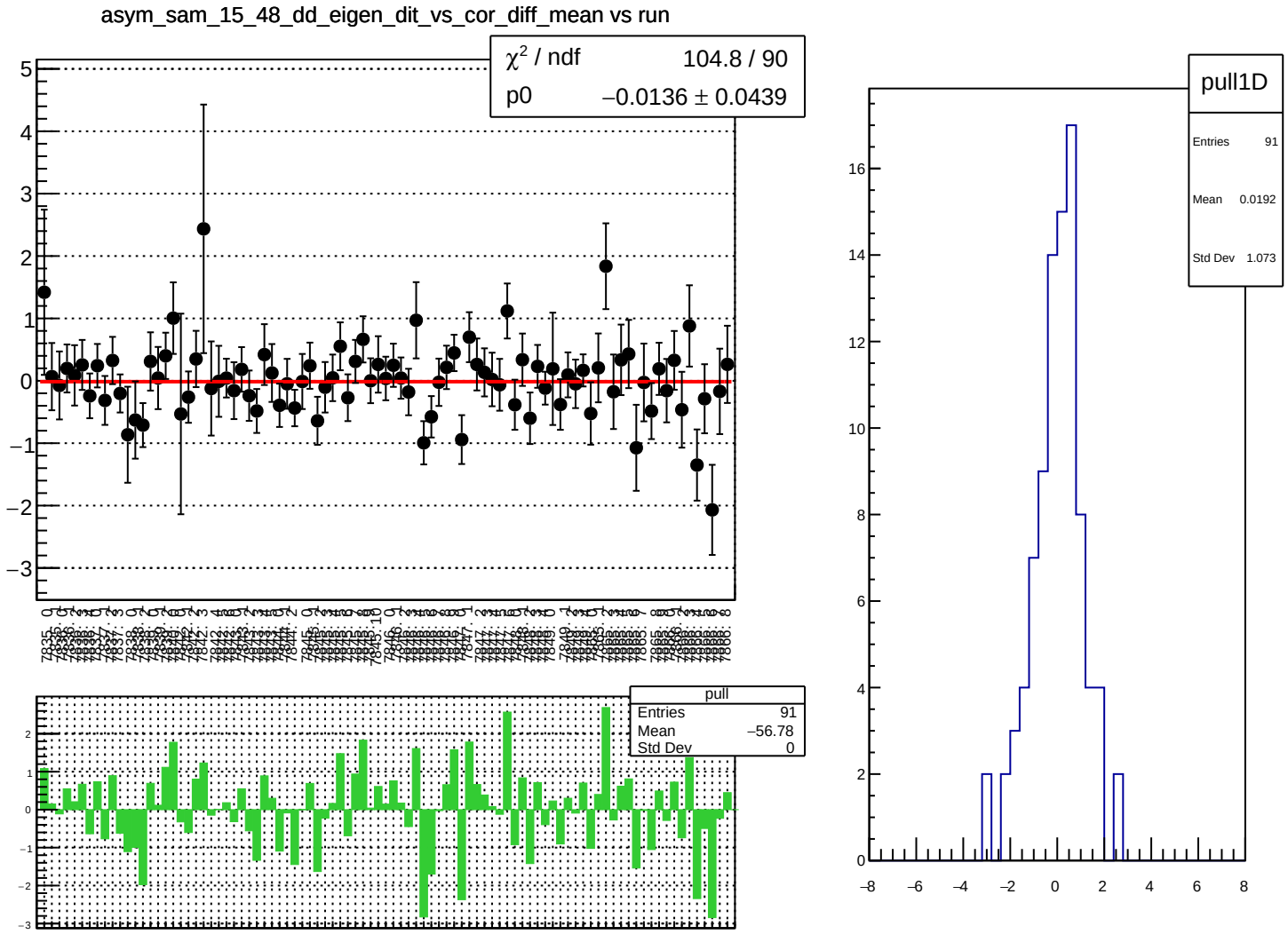

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 90
p0 −0.0136 ± 0.0439
pull
Entries 91
Mean −56.77
Std Dev 0
pull1D
Entries 91
Mean 0.0192
Std Dev 1.073

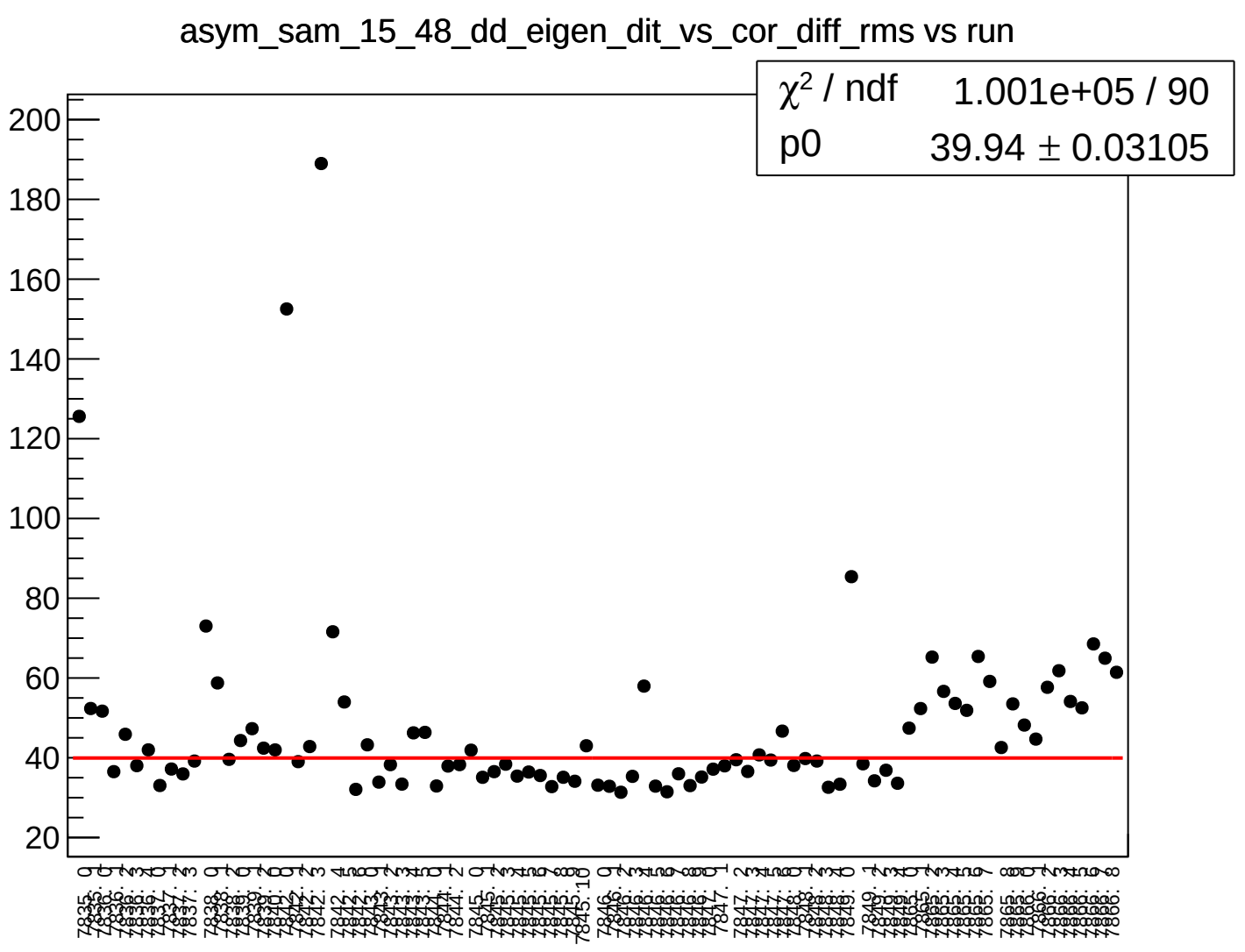

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 90
p0 39.94 ± 0.03105
200
180
160
140
120
100
80
60
40
20

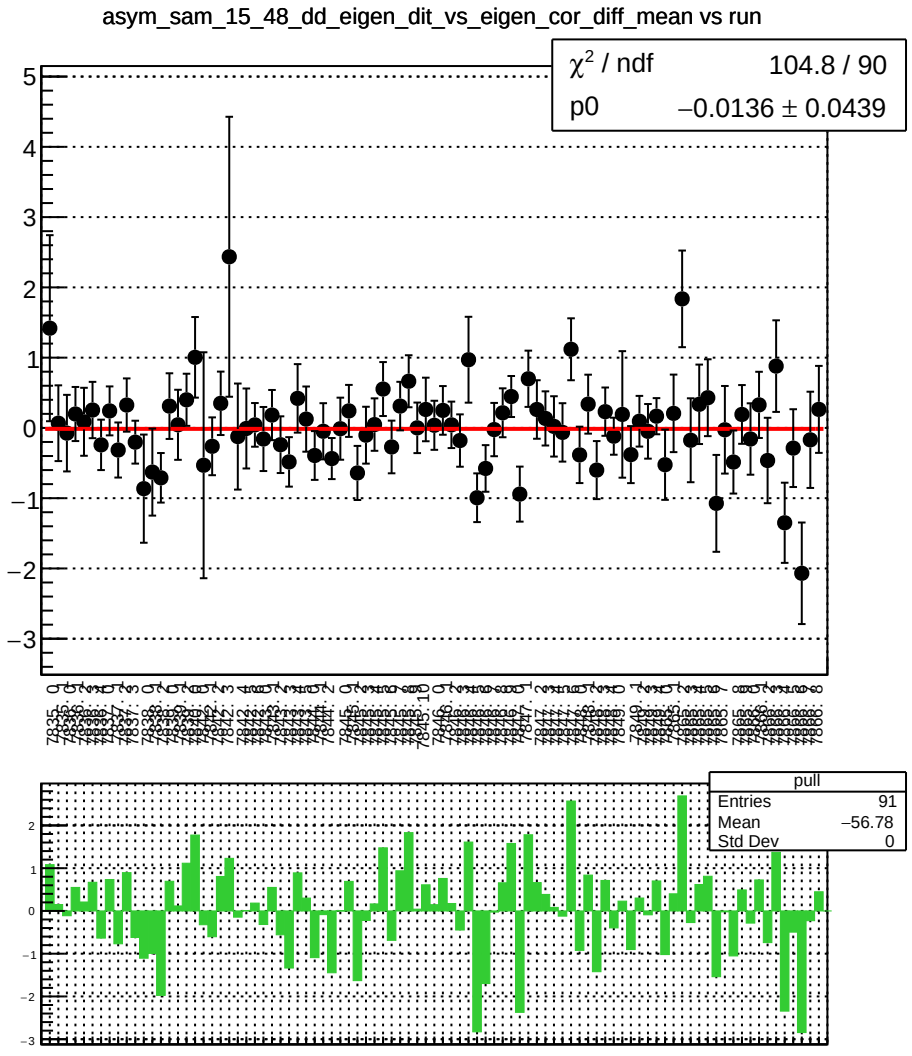

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105 / 90
p0 9.517e−07 ± 1.232e−06
pull
Entries 91
Mean −21.78
Std Dev 11.22

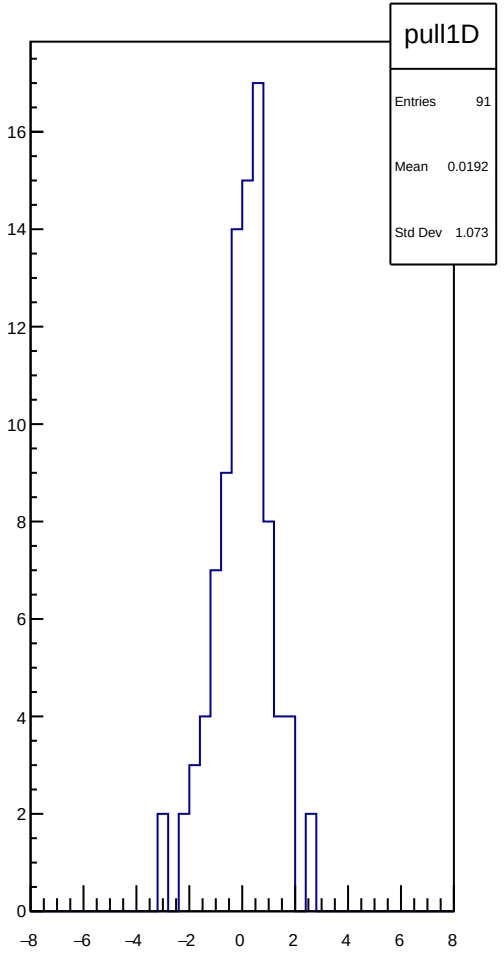

pull1D
Entries 91
Mean −0.02338
Std Dev 1.074

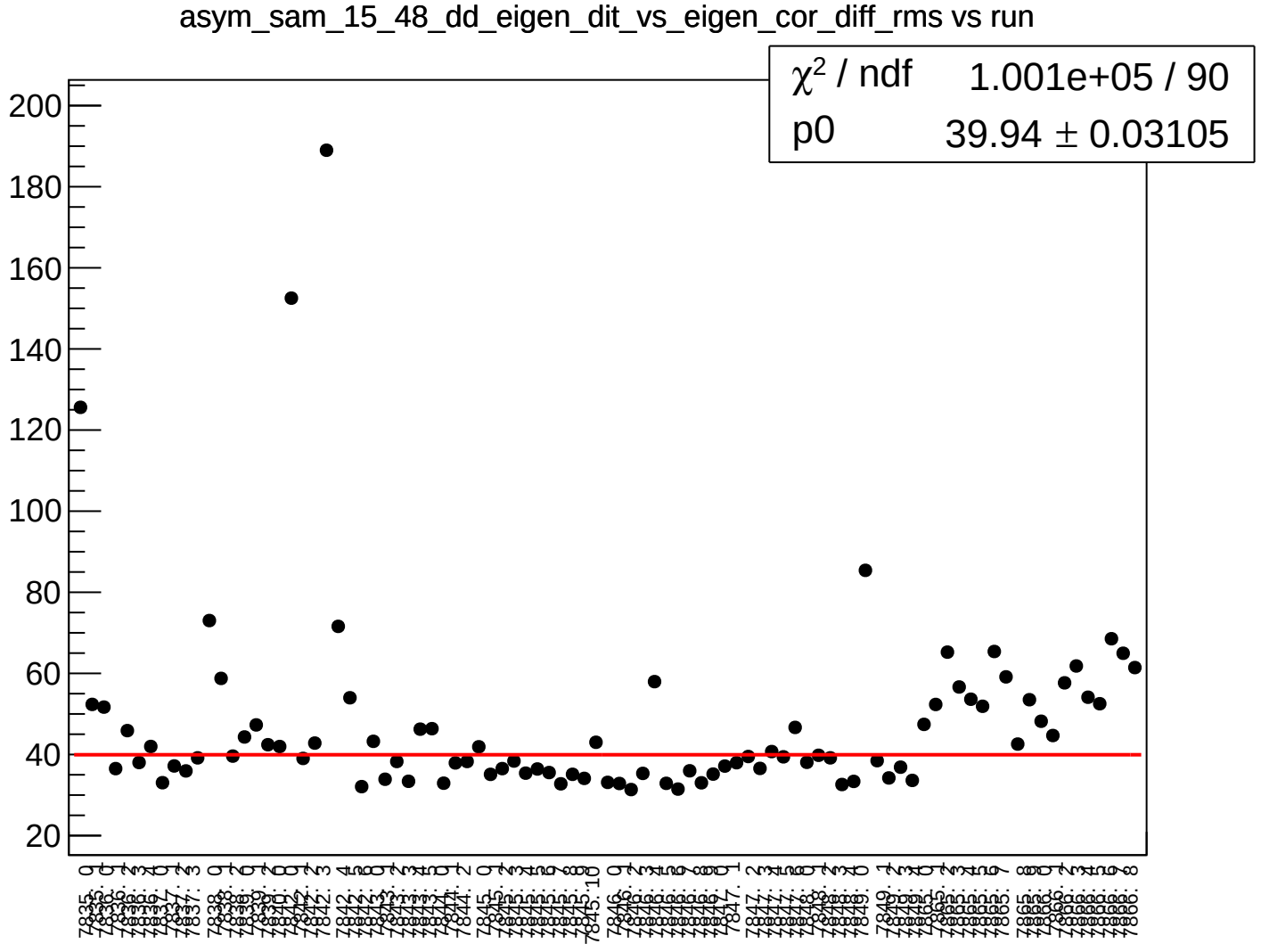

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.836e+05 / 90
p0 0.001092 ± 8.714e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

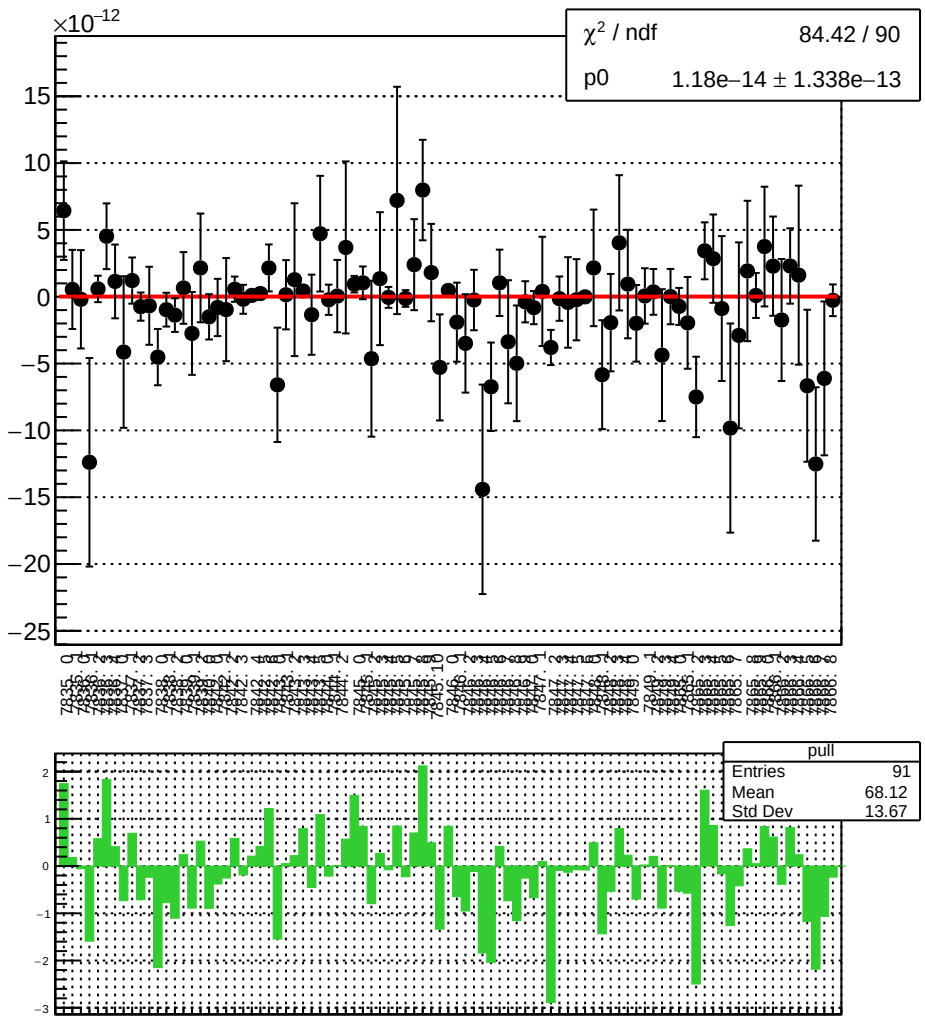

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 90
p0 −0.0136 ± 0.0439
pull
Entries 91
Mean −56.78
Std Dev 0
pull1D
Entries 91
Mean 0.0192
Std Dev 1.073

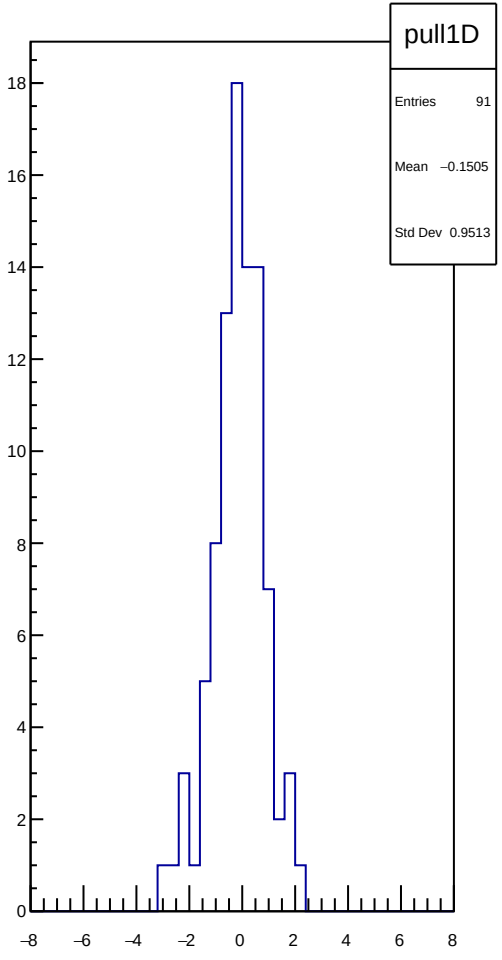

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 90
p0 39.94 ± 0.03105
200
180
160
140
120
100
80
60
40
20

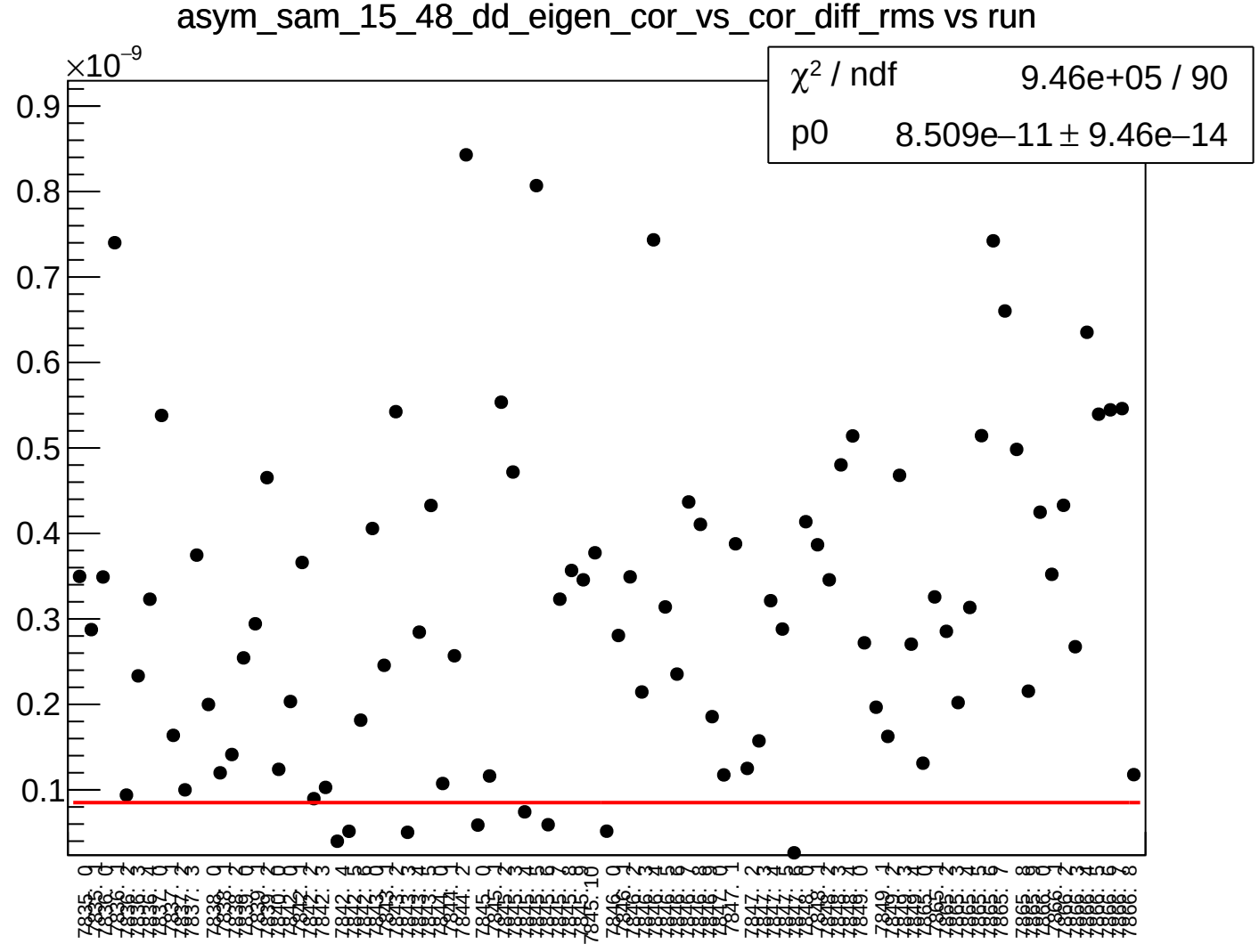

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 90
p0 −0.0136 ± 0.0439
pull
Entries 91
Mean −56.78
Std Dev 0

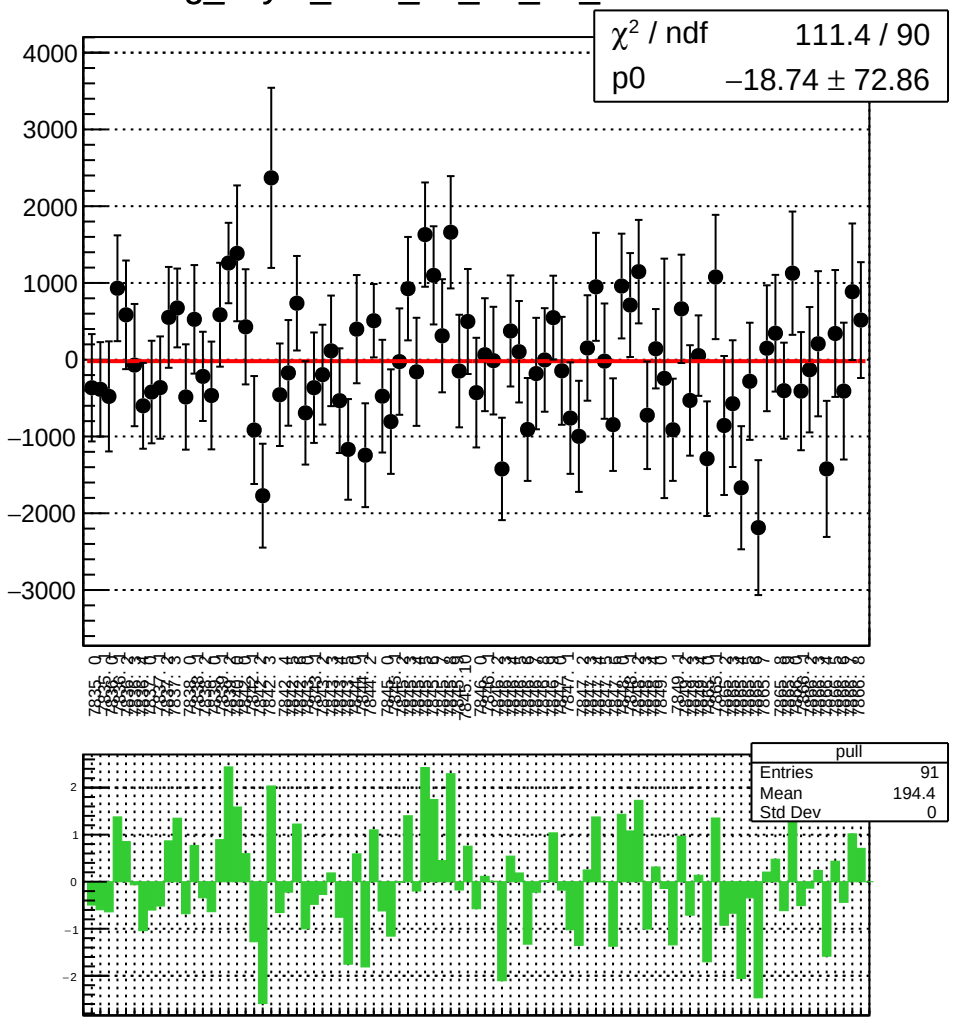

pull1D
Entries 91
Mean 0.0192
Std Dev 1.073

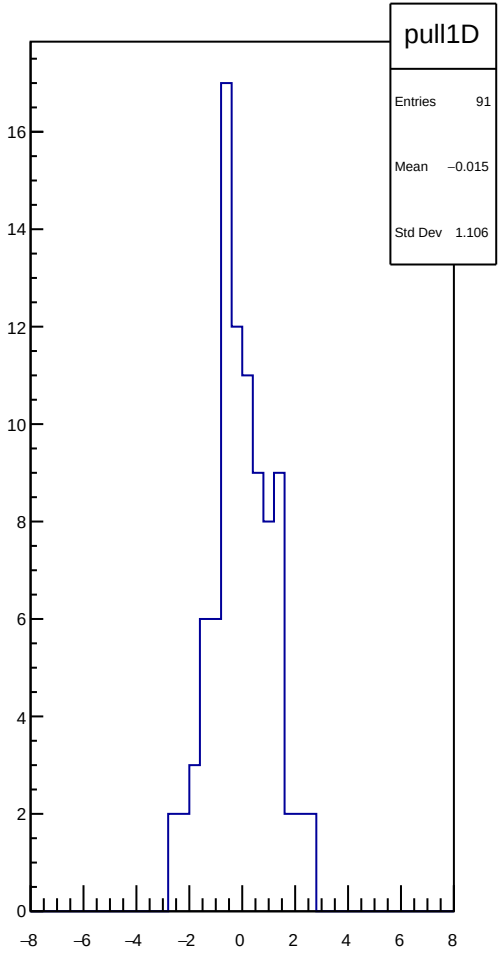

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 90
p0 39.94 ± 0.03105
200
180
160
140
120
100
80
60
40
20

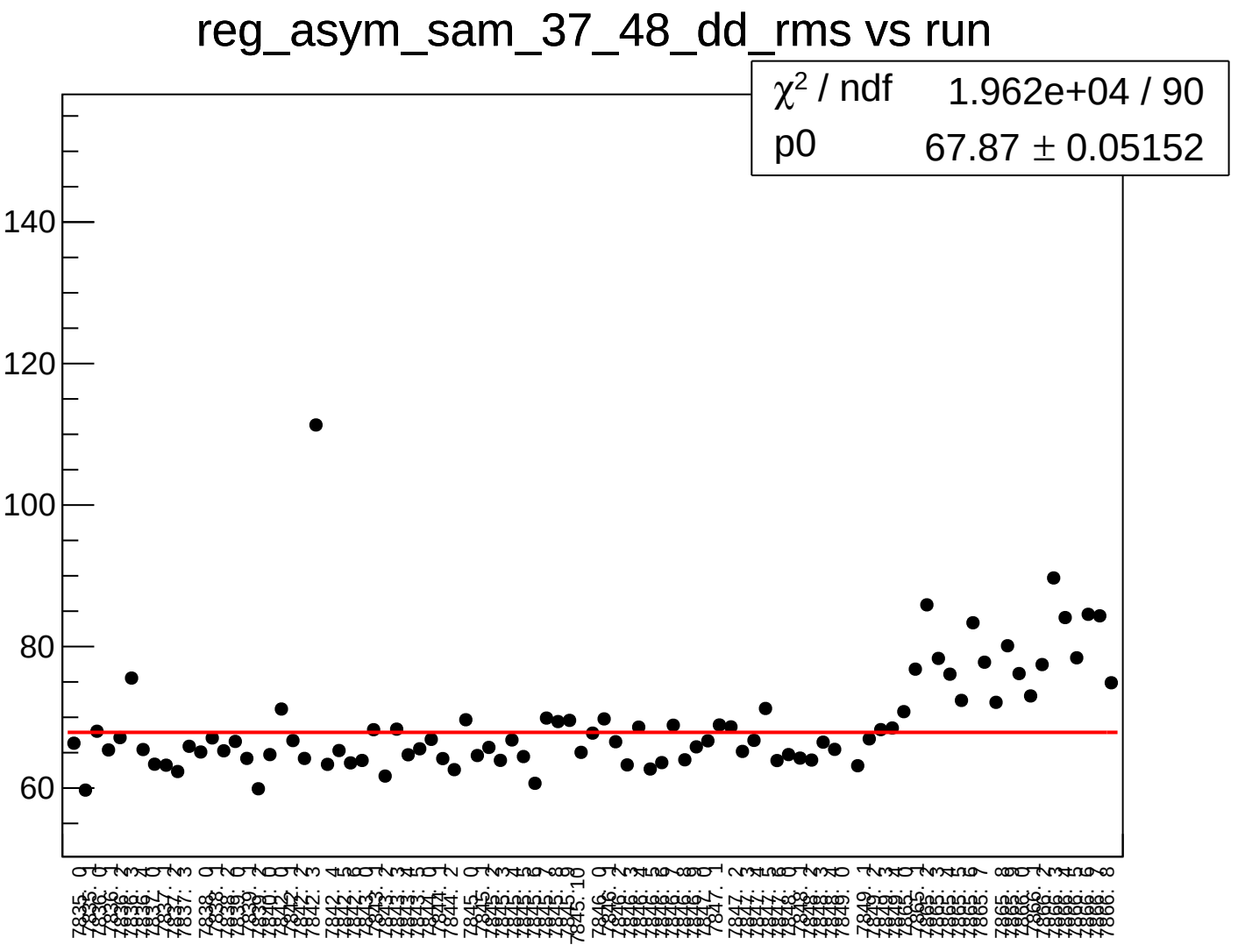

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.42 / 90
p0 1.18e−14 ± 1.338e−13
pull
Entries 91
Mean 68.12
Std Dev 13.67

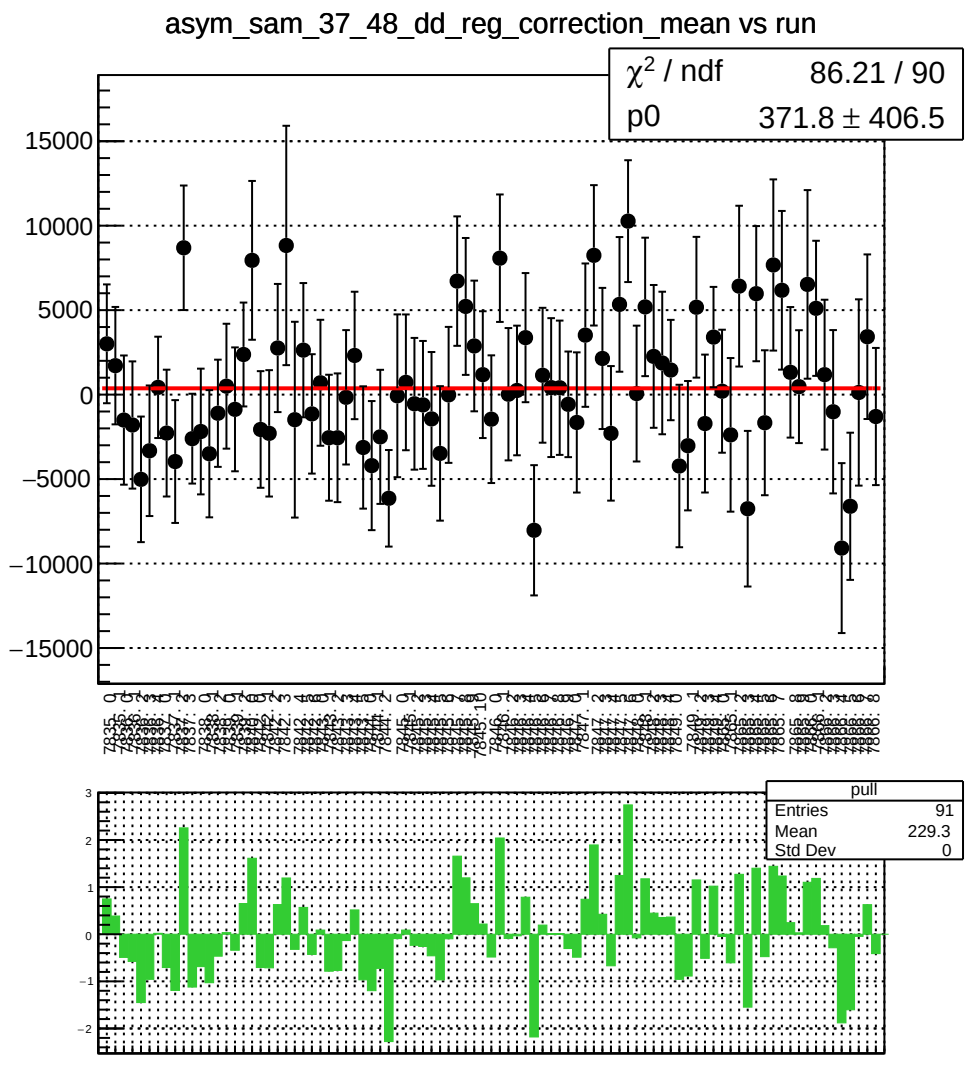

pull1D
Entries 91
Mean −0.1505
Std Dev 0.9513

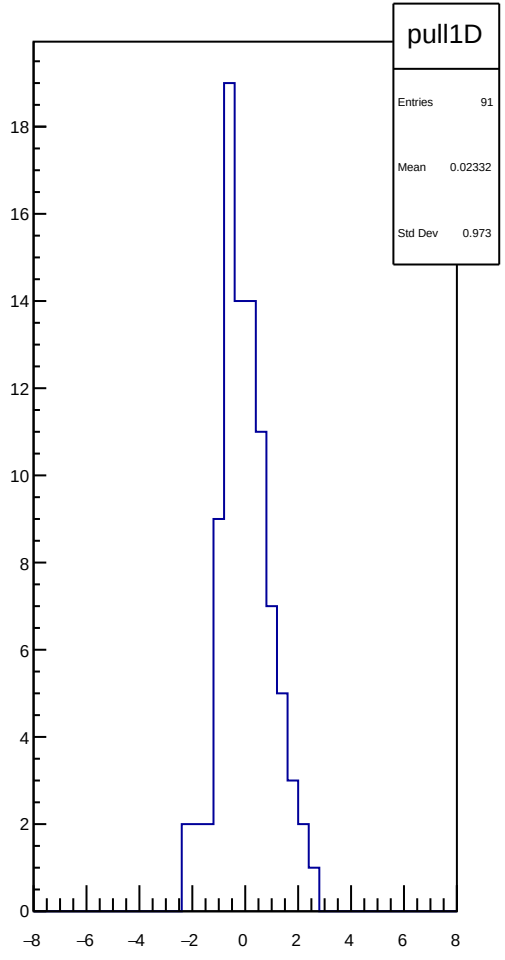

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.46e+05 / 90
p0 8.509e−11 ± 9.46e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

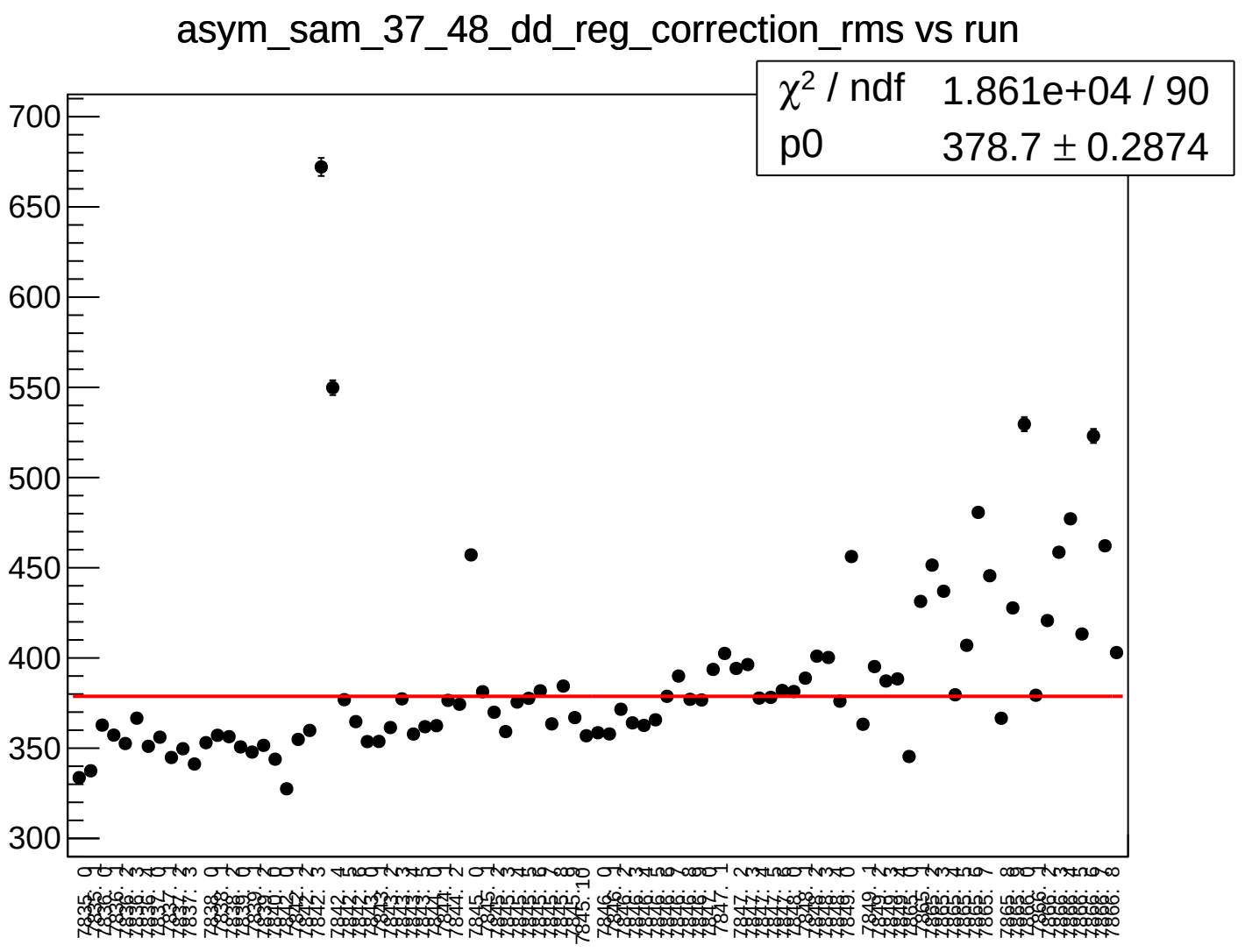

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 111.4 / 90
p0 −18.74 ± 72.86
pull
Entries 91
Mean 194.4
Std Dev 0

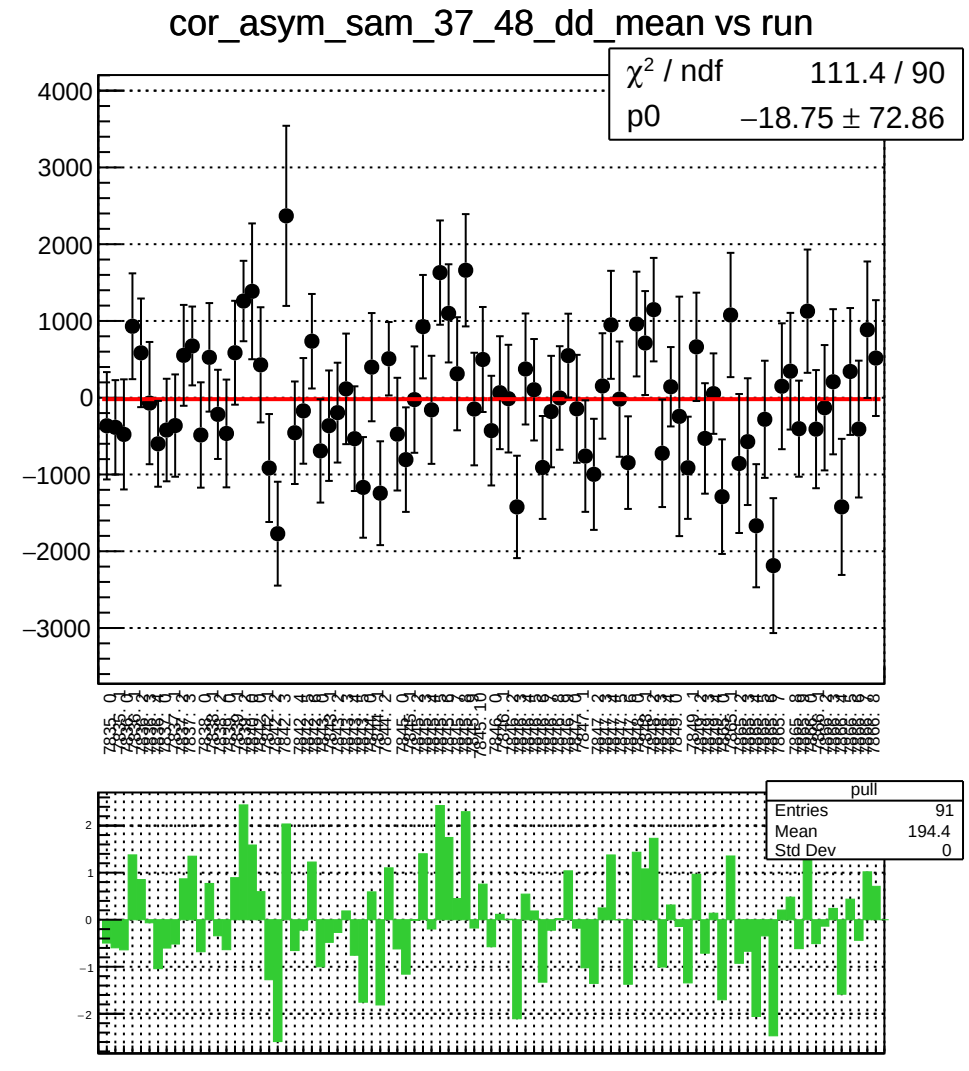

pull1D
Entries 91
Mean −0.015
Std Dev 1.106

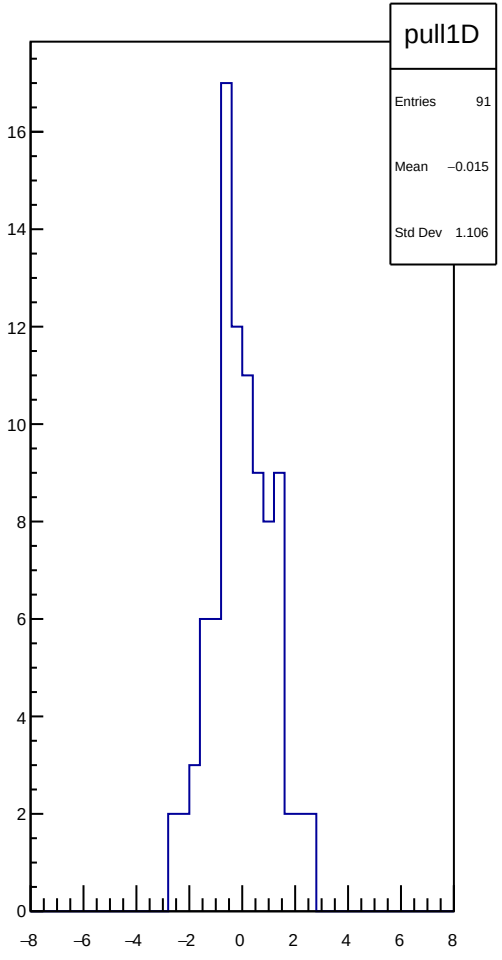

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.962e+04 / 90
p0 67.87 ± 0.05152
140
120
100
80
60

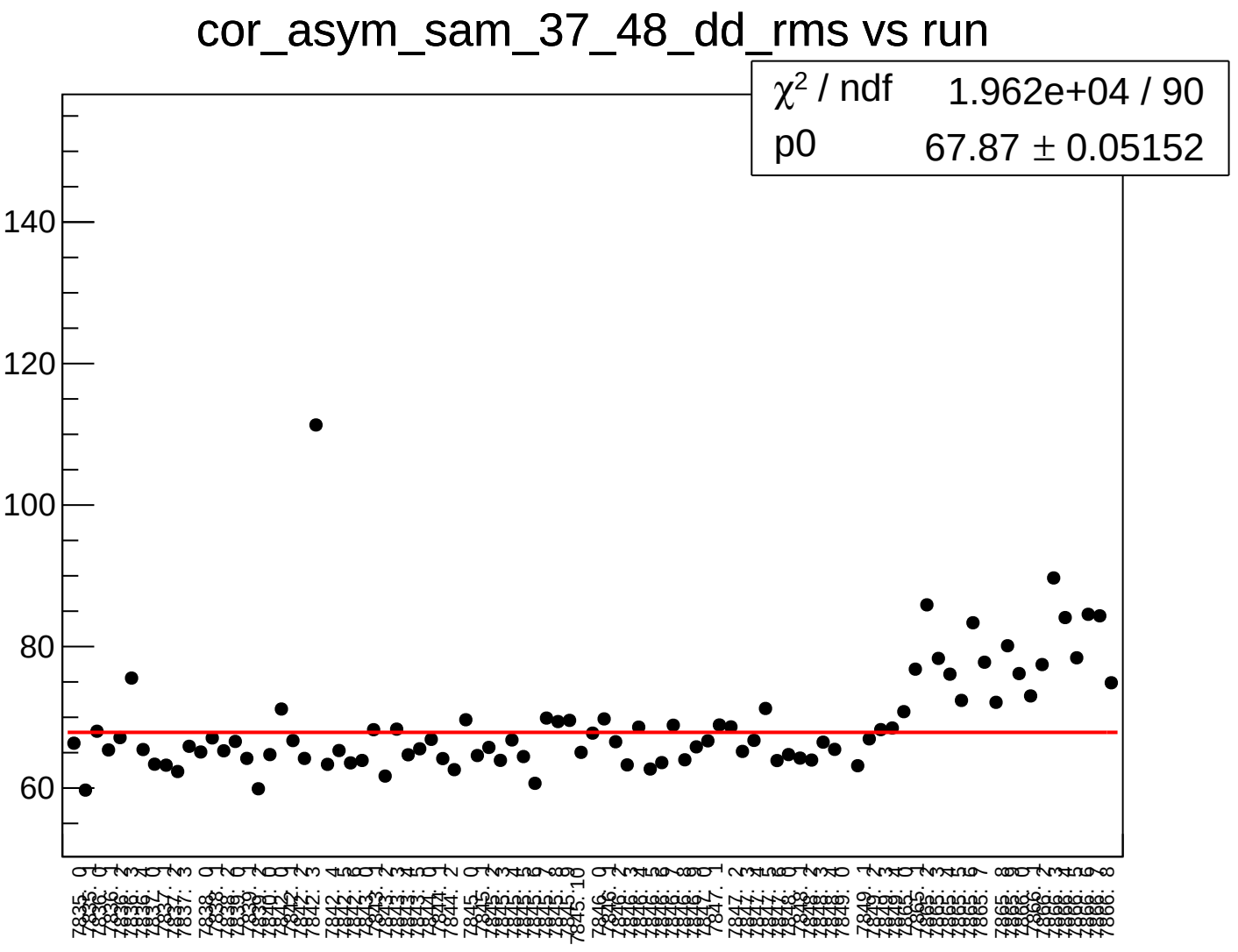

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 86.21 / 90
p0 371.8 ± 406.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 229.3
Std Dev 0
3
2
1
0
−1
−2

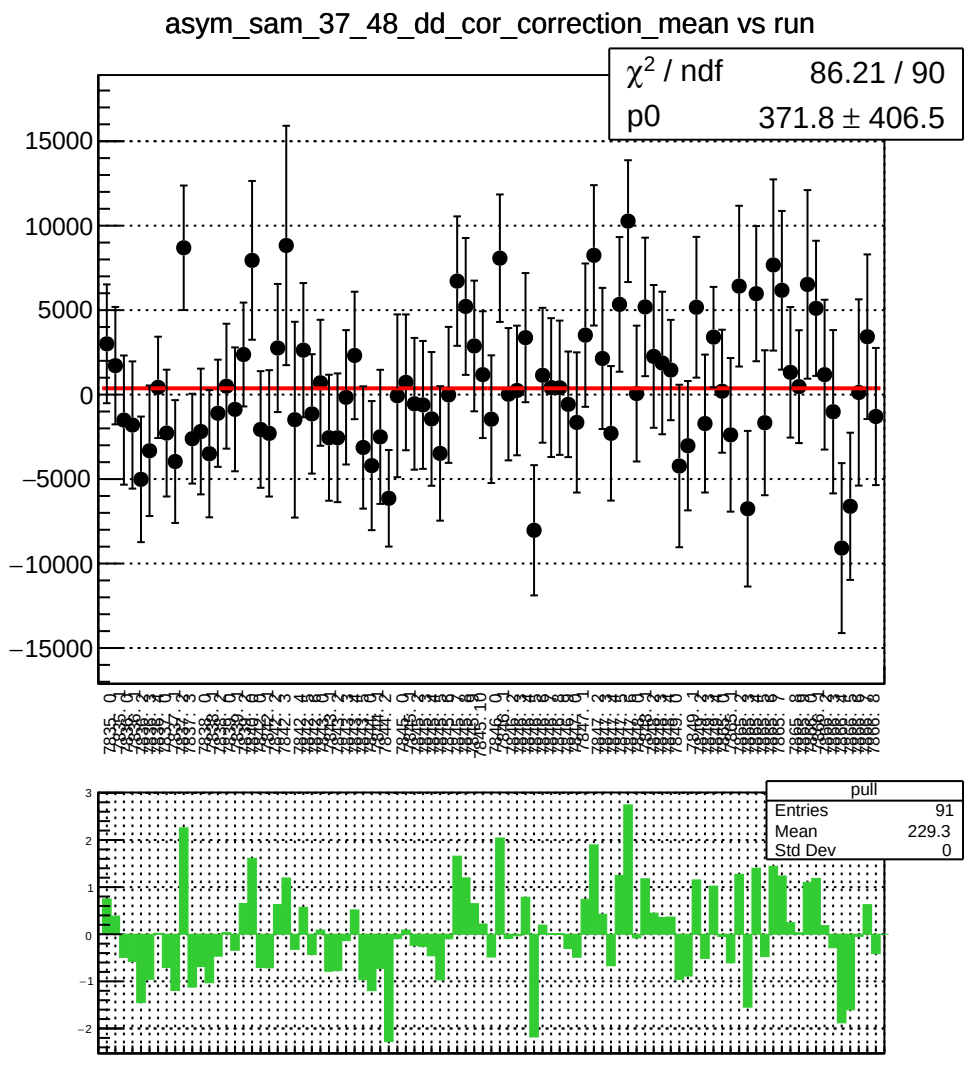

pull1D
Entries 91
Mean 0.02332
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

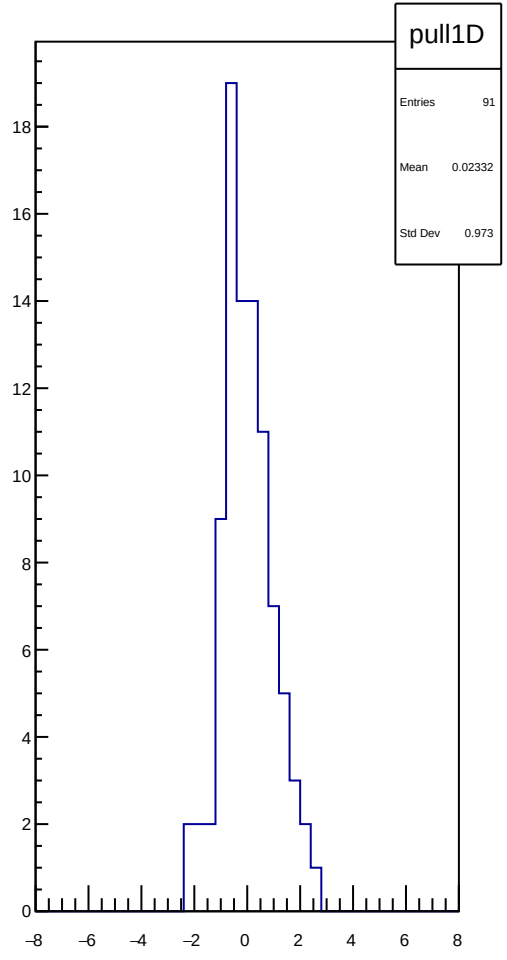

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.861e+04 / 90
p0 378.7 ± 0.2874
700
650
600
550
500
450
400
350
300

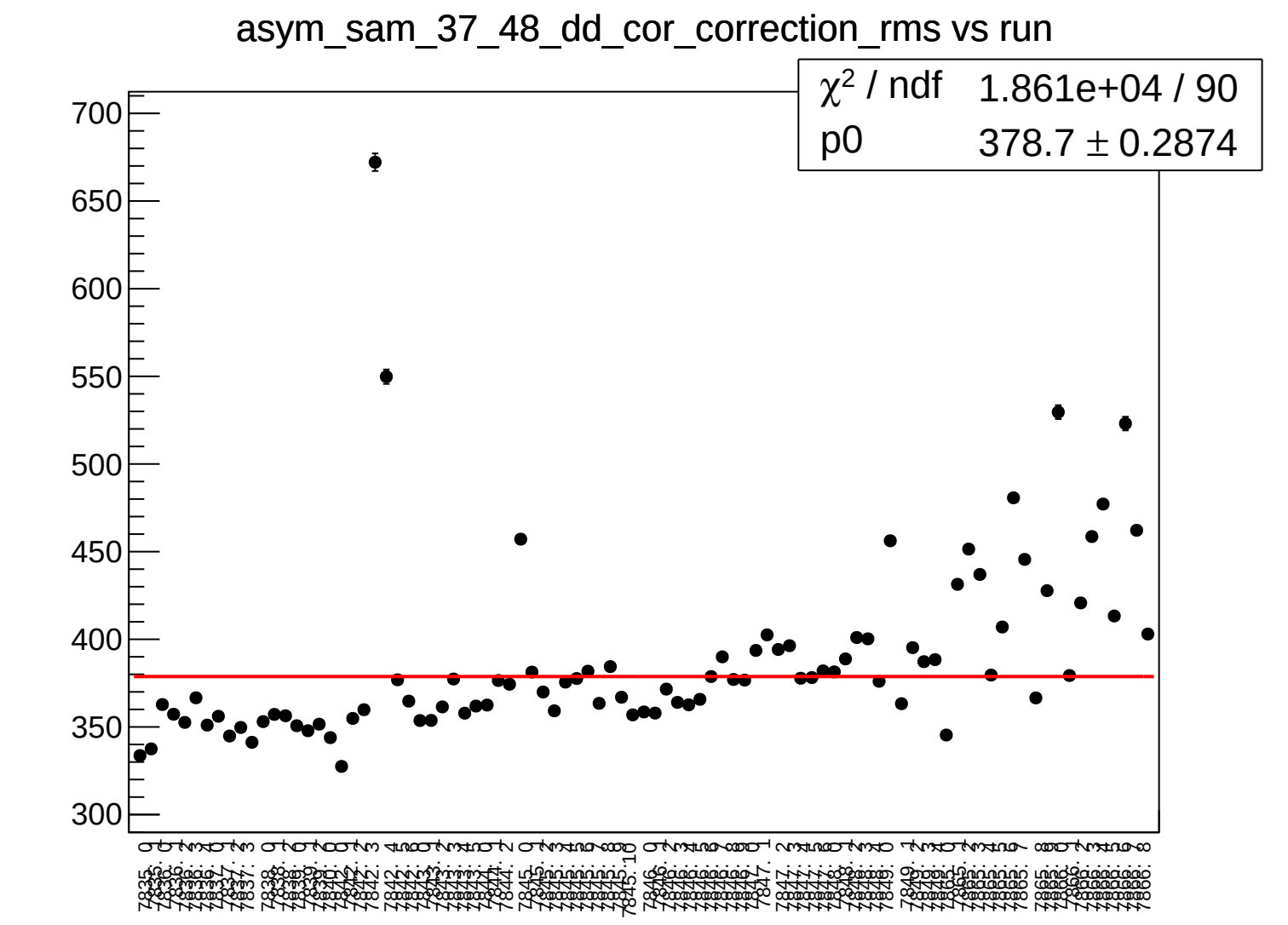

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 111.4 / 90
p0 −18.75 ± 72.86
pull
Entries 91
Mean 194.4
Std Dev 0

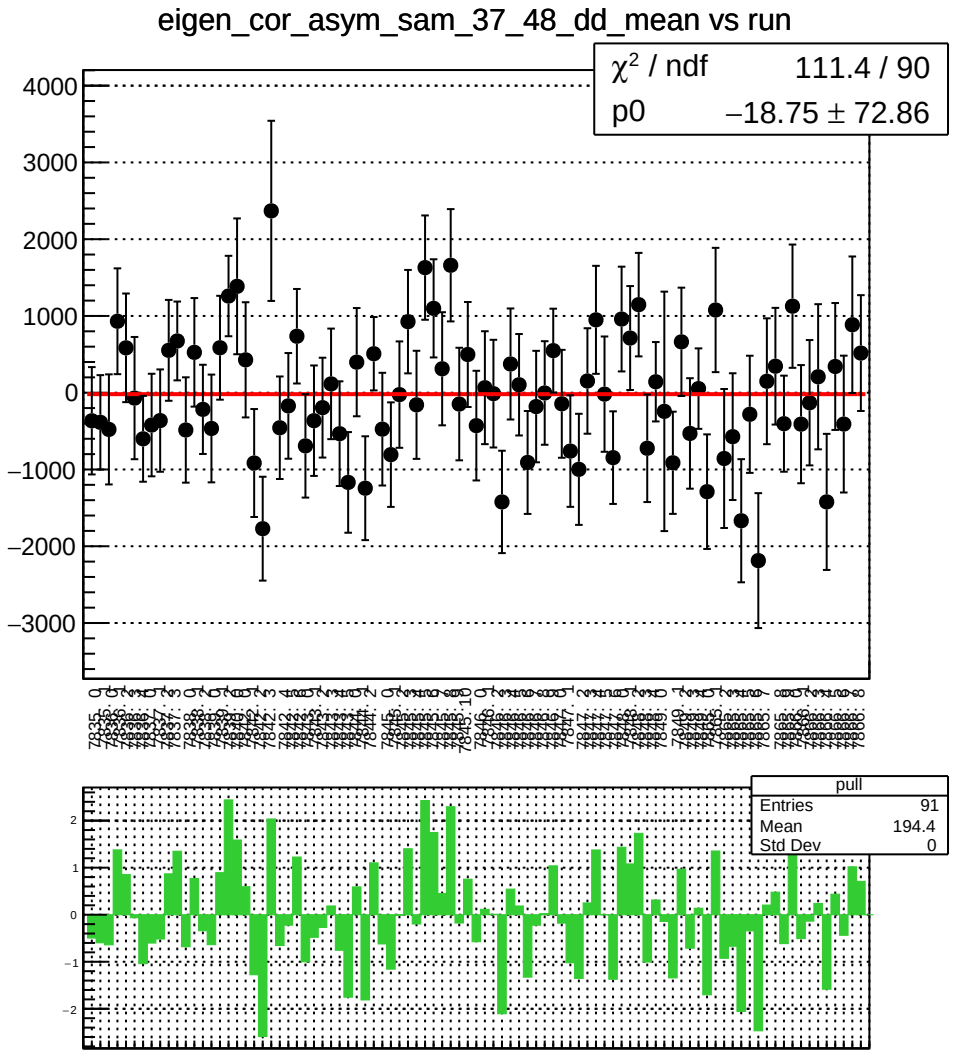

pull1D
Entries 91
Mean −0.015
Std Dev 1.106

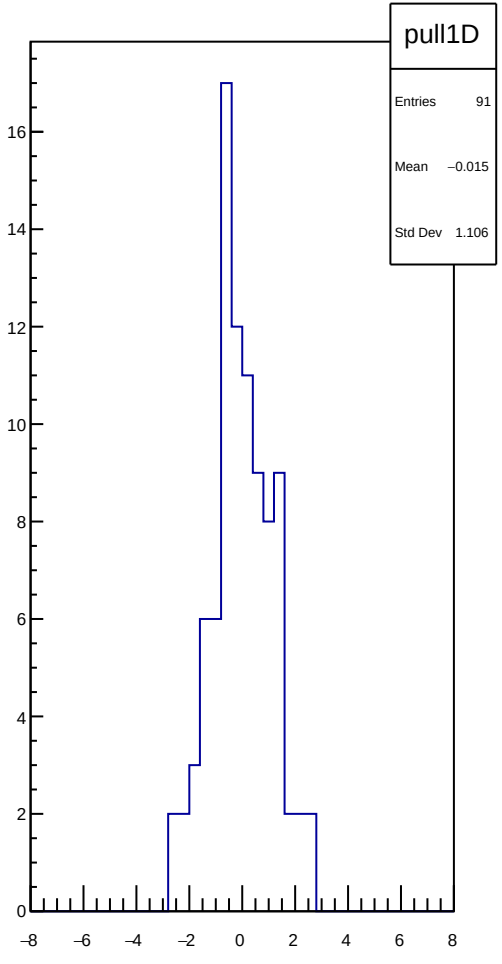

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.962e+04 / 90
p0 67.87 ± 0.05152
140
120
100
80
60

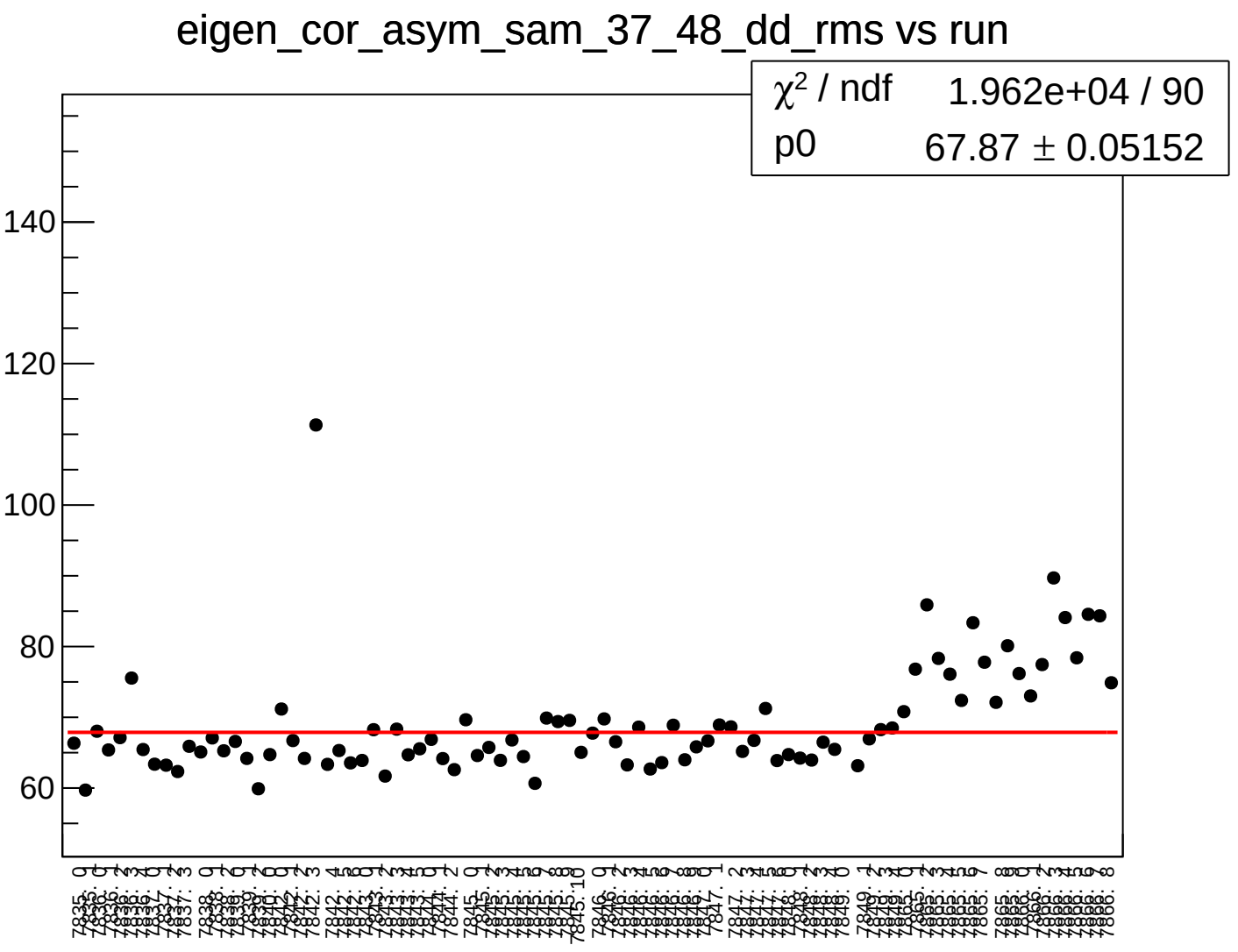

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 86.21 / 90
p0 371.8 ± 406.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 229.3
Std Dev 0
3
2
1
0
−1
−2

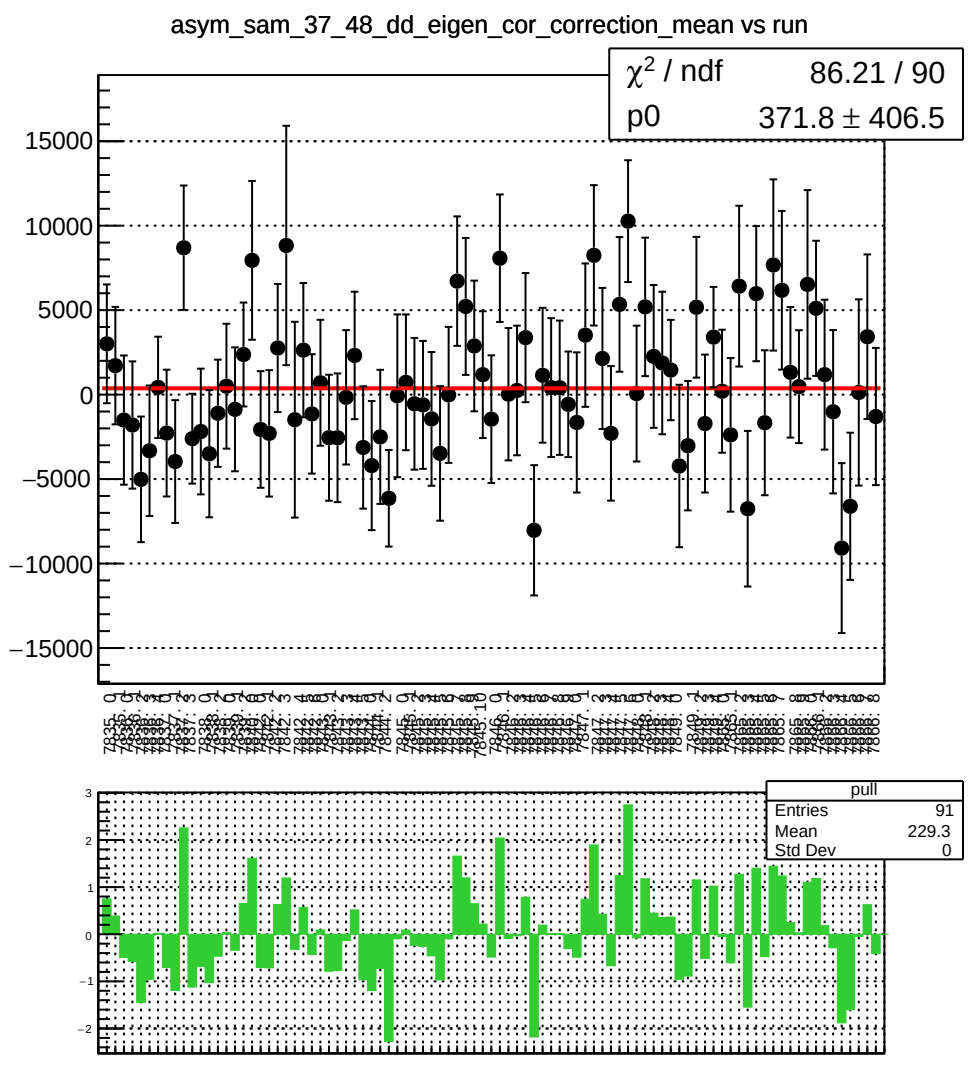

pull1D
Entries 91
Mean 0.02332
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

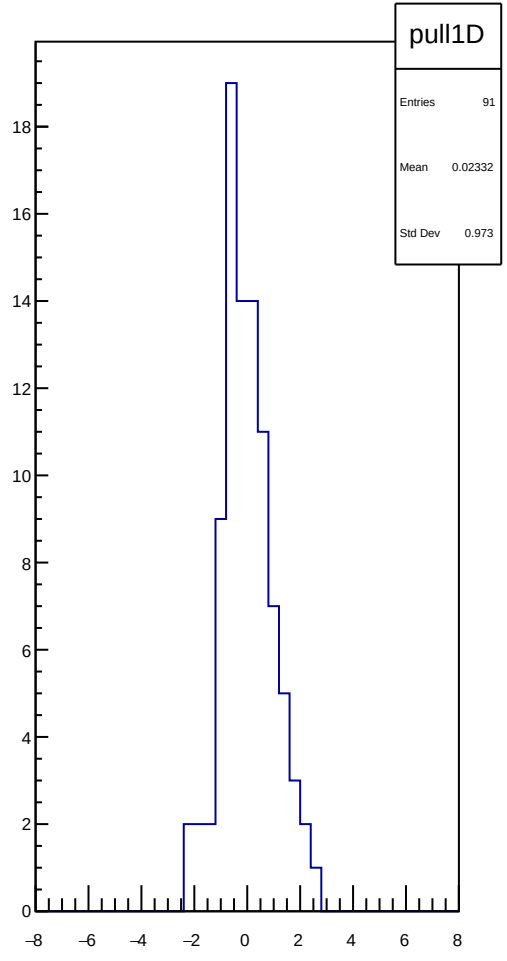

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.861e+04 / 90
p0 378.7 ± 0.2874
700
650
600
550
500
450
400
350
300

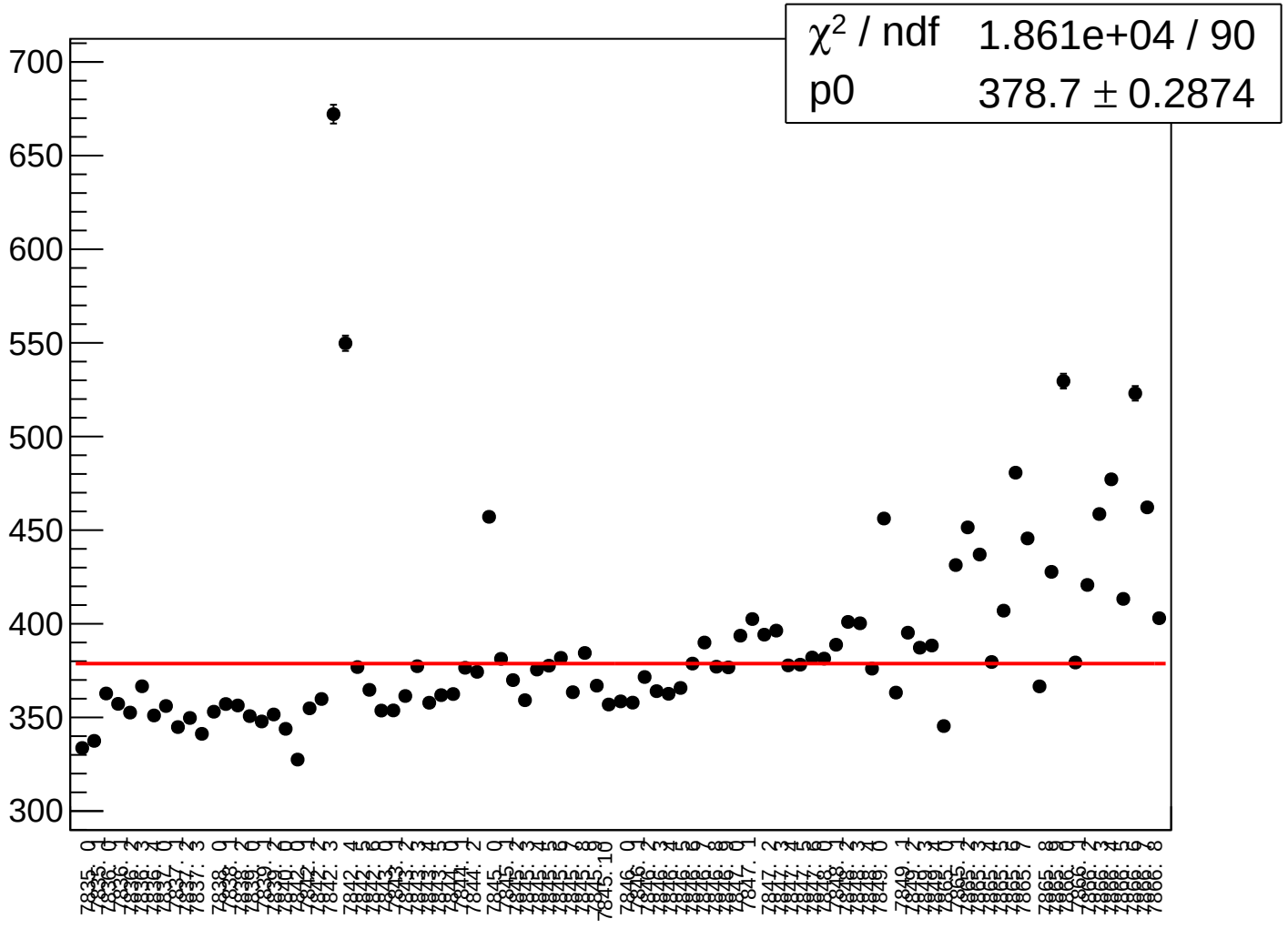

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 111.4 / 90
p0 −18.75 ± 72.86
pull
Entries 91
Mean 194.4
Std Dev 0

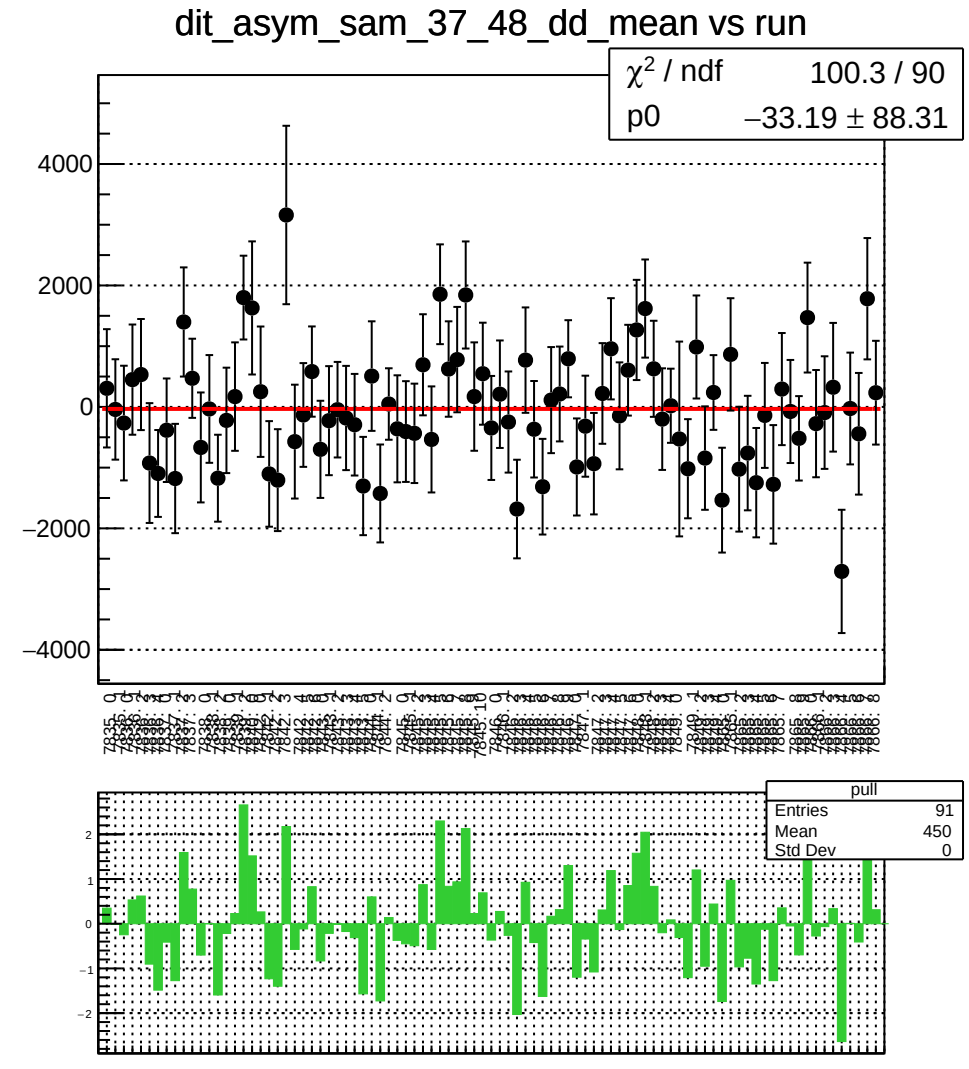

pull1D
Entries 91
Mean −0.015
Std Dev 1.106

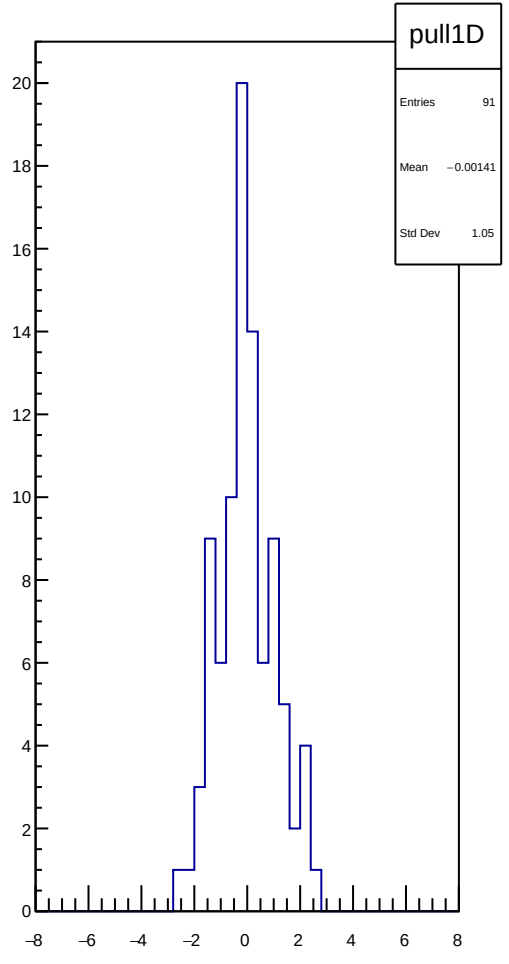

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.962e+04 / 90
p0 67.87 ± 0.05152
140
120
100
80
60

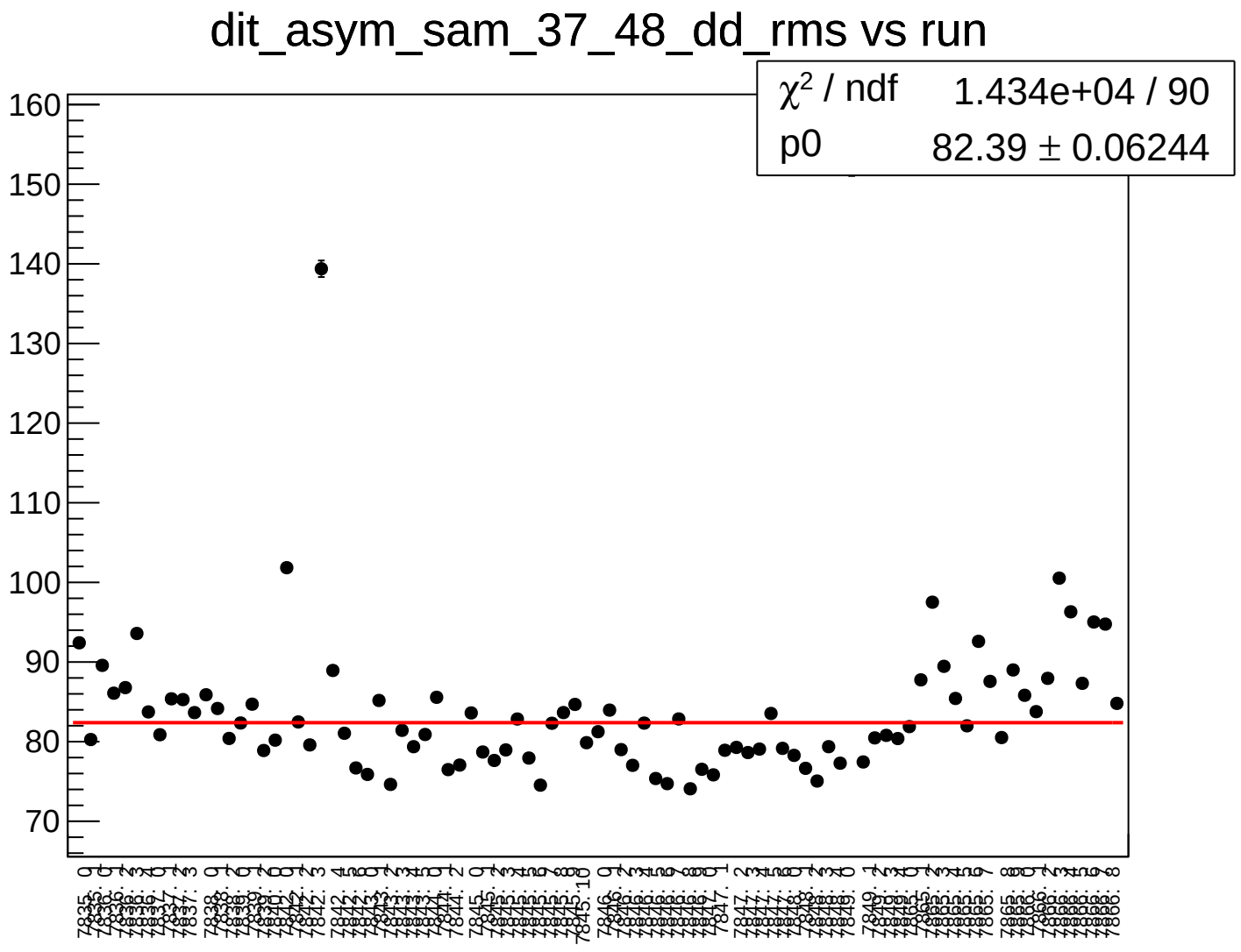

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.21 / 90
p0 371.8 ± 406.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 229.3
Std Dev 0
3
2
1
0
−1
−2

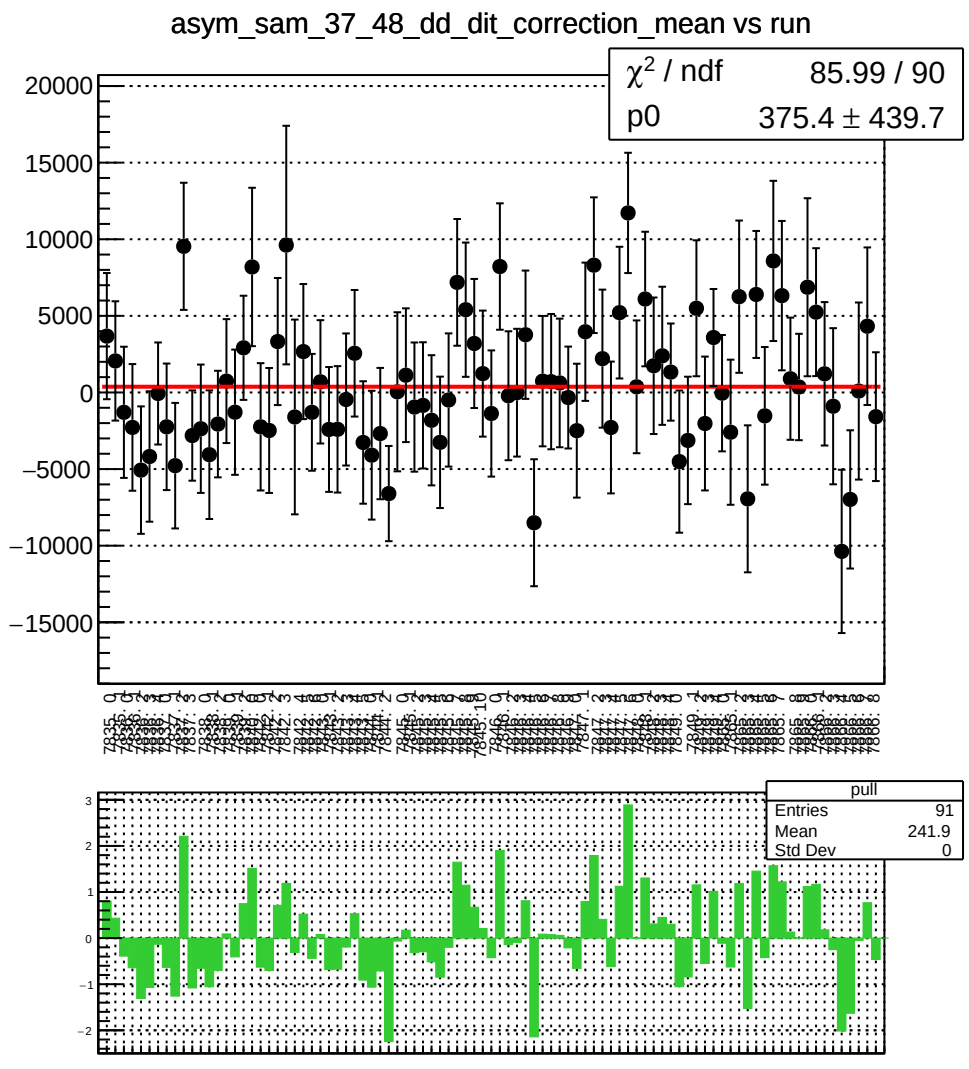

pull1D
Entries 91
Mean 0.02332
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

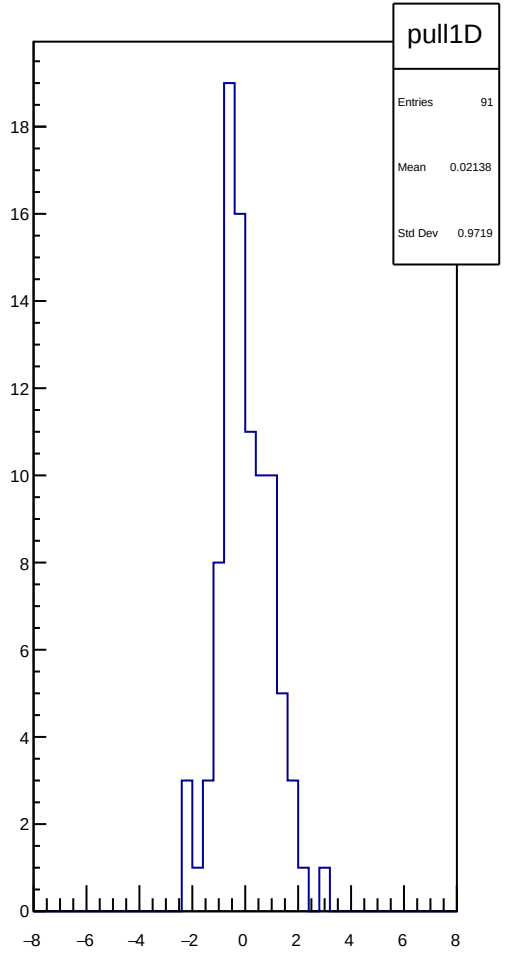

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.861e+04 / 90
p0 378.7 ± 0.2874
700
650
600
550
500
450
400
350
300

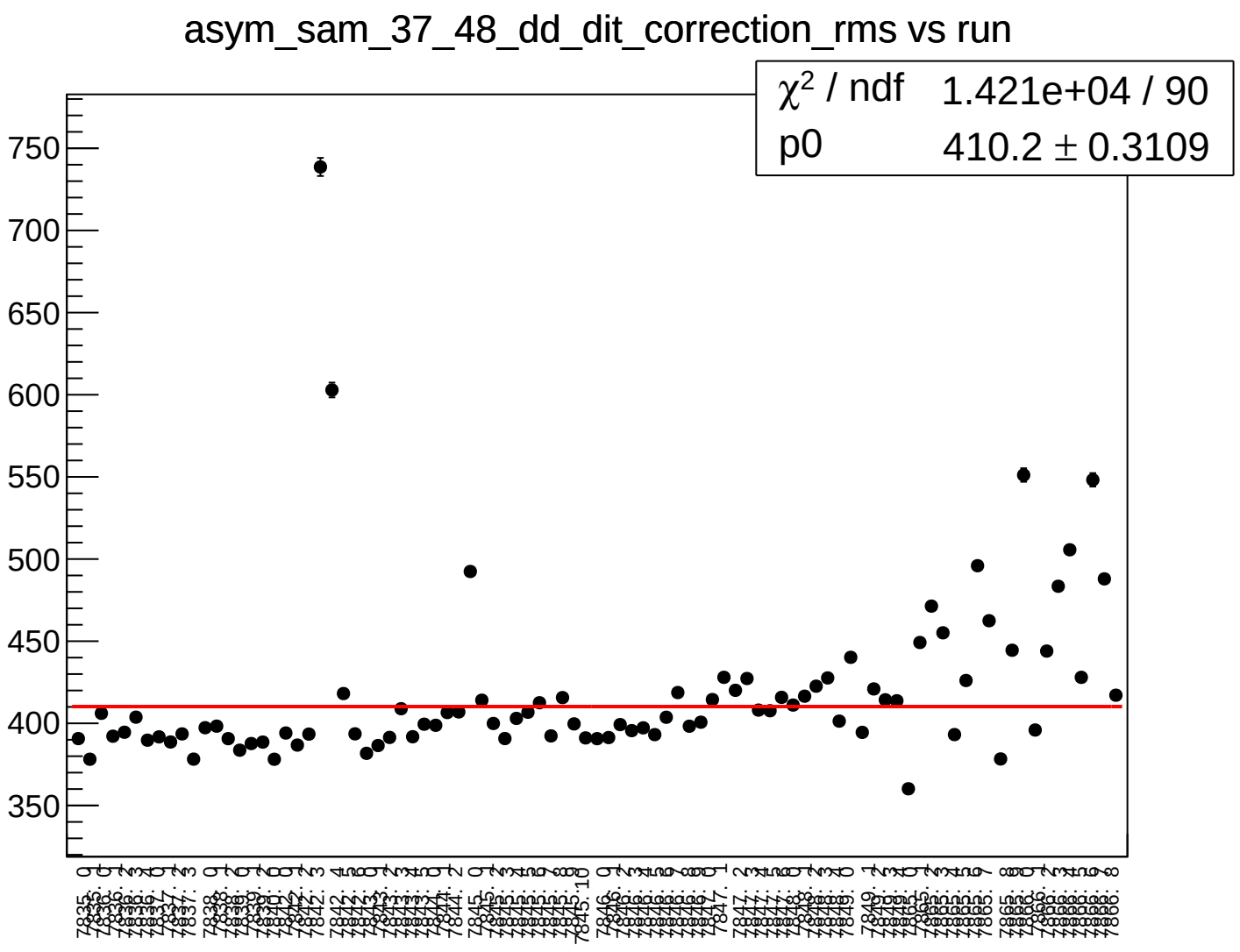

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.3 / 90
p0 −33.19 ± 88.31
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 450
Std Dev 0
2
1
0
−1
−2

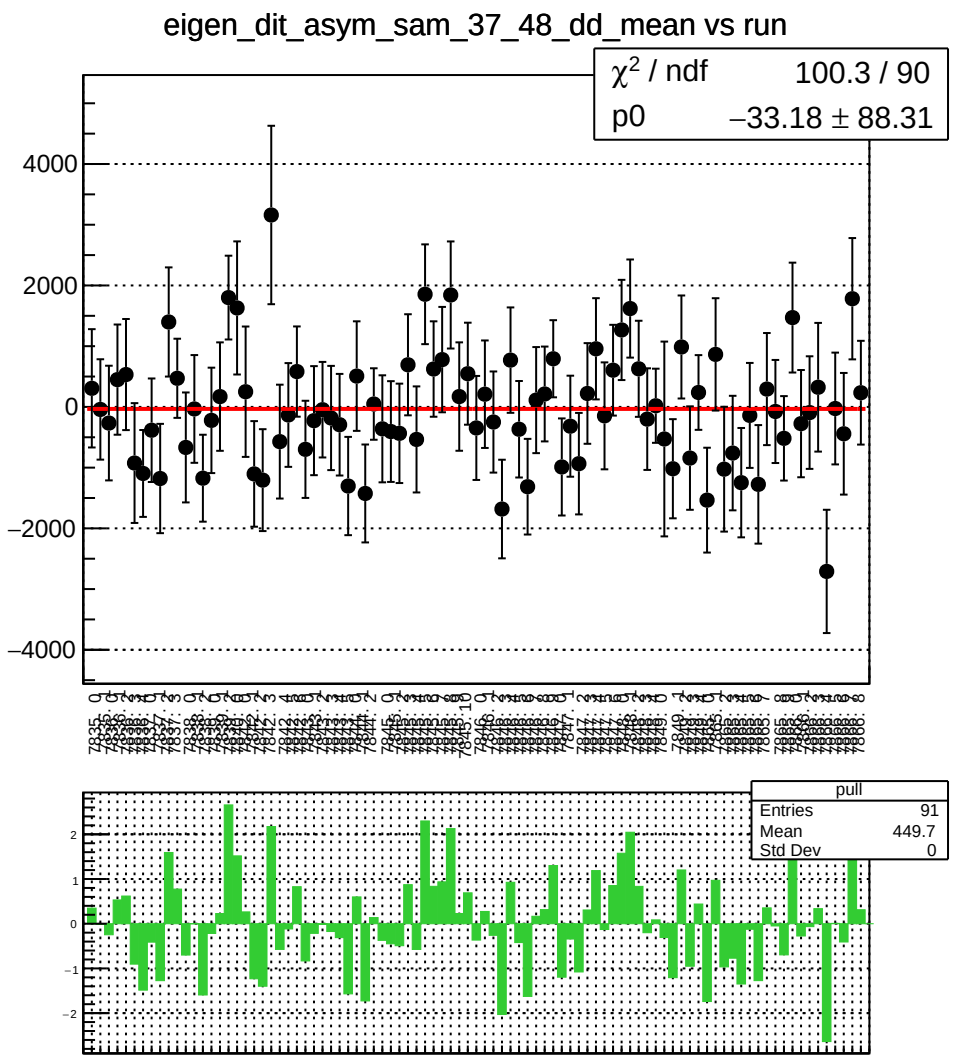

pull1D
Entries 91
Mean −0.00141
Std Dev 1.05
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

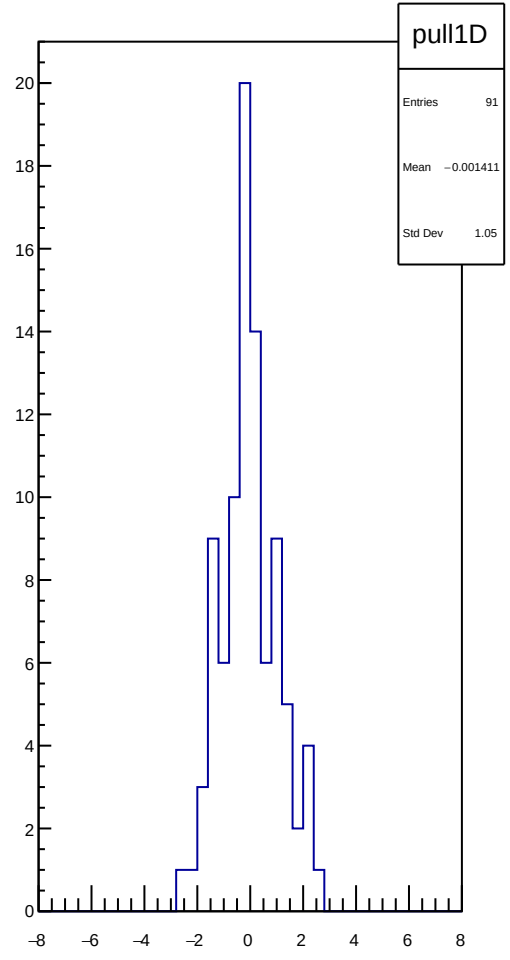

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.434e+04 / 90
p0 82.39 ± 0.06244
160
150
140
130
120
110
100
90
80
70

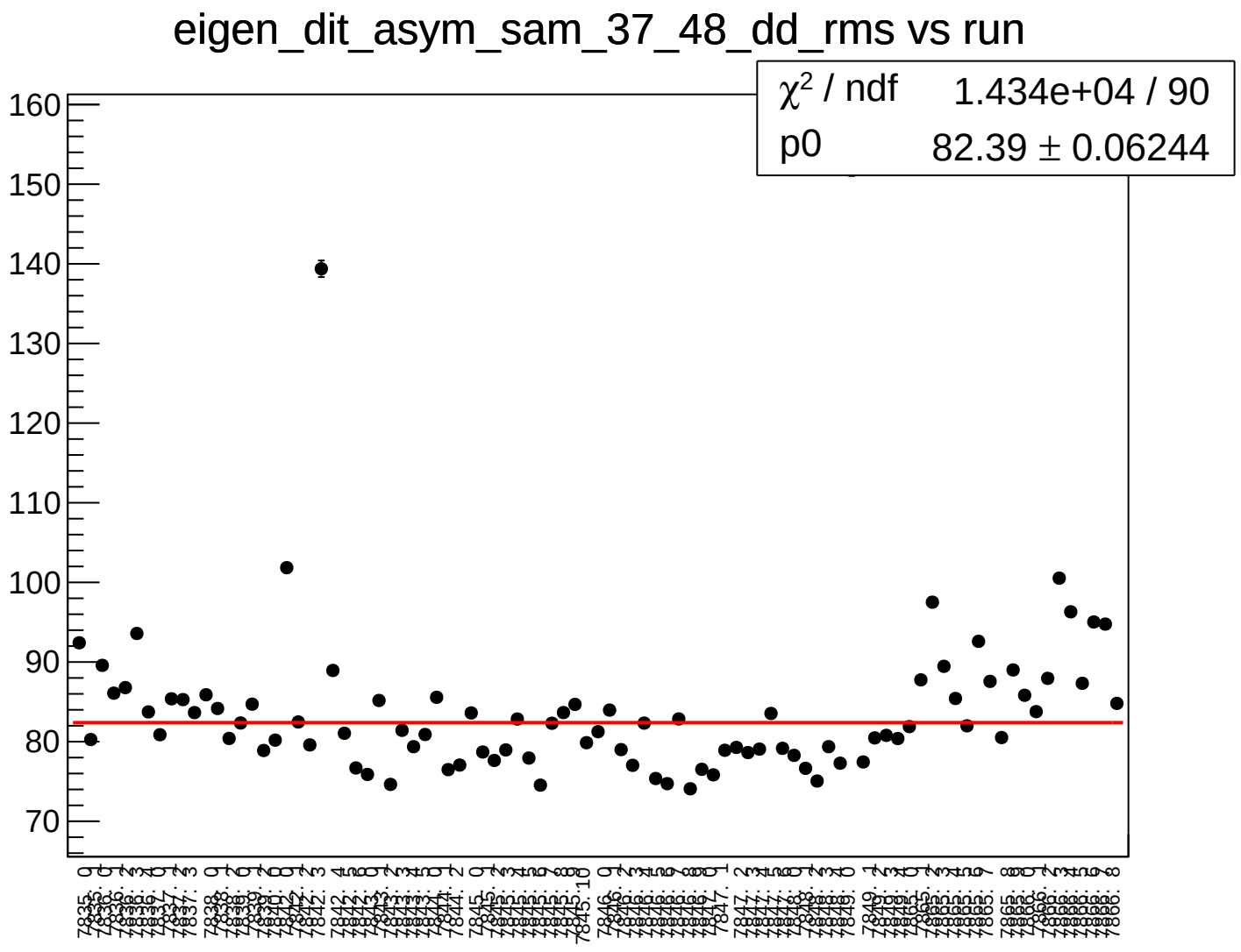

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 85.99 / 90
p0 375.4 ± 439.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 241.9
Std Dev 0
3
2
1
0
−1
−2

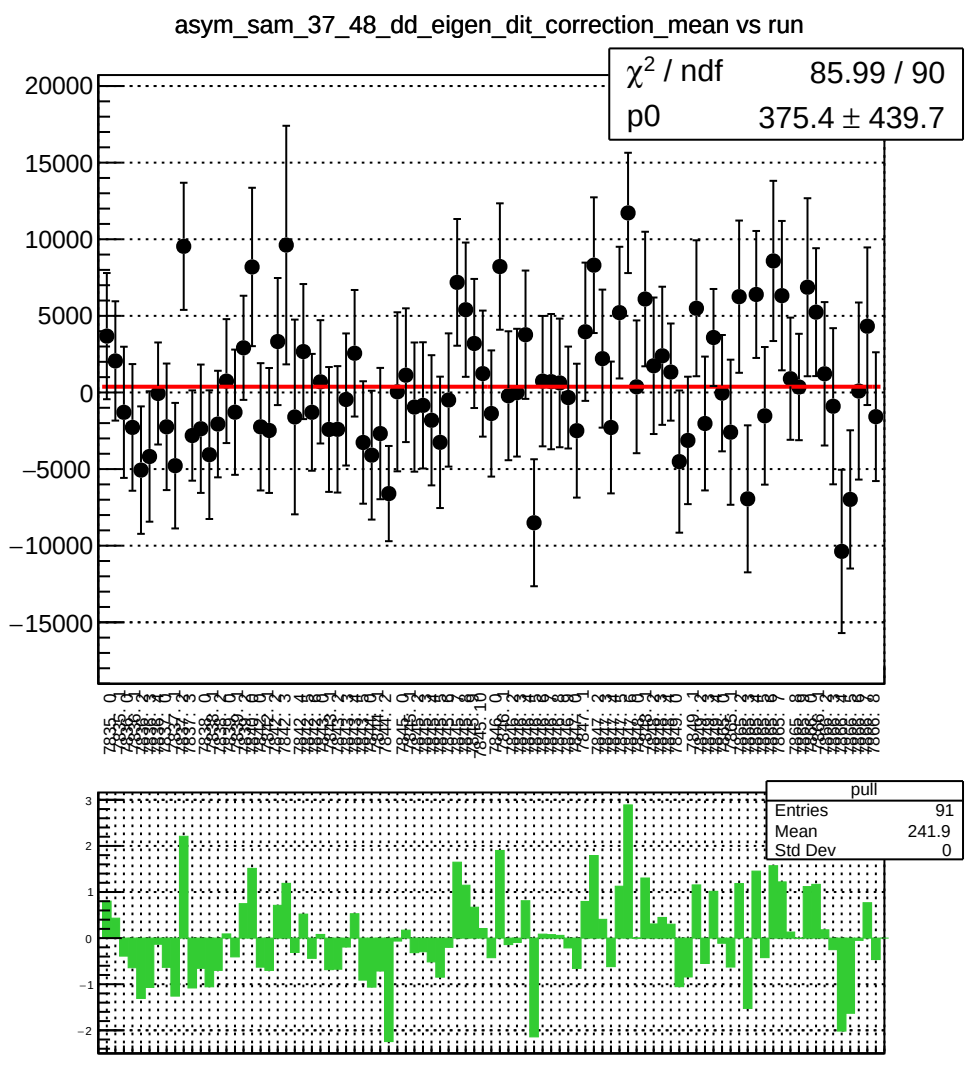

pull1D
Entries 91
Mean 0.02138
Std Dev 0.9719
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

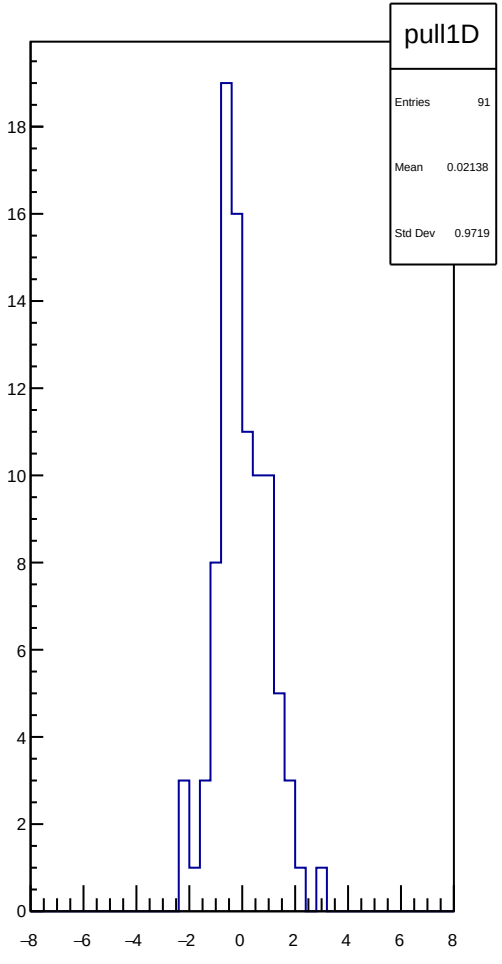

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.421e+04 / 90
p0 410.2 ± 0.3109
750
700
650
600
550
500
450
400
350

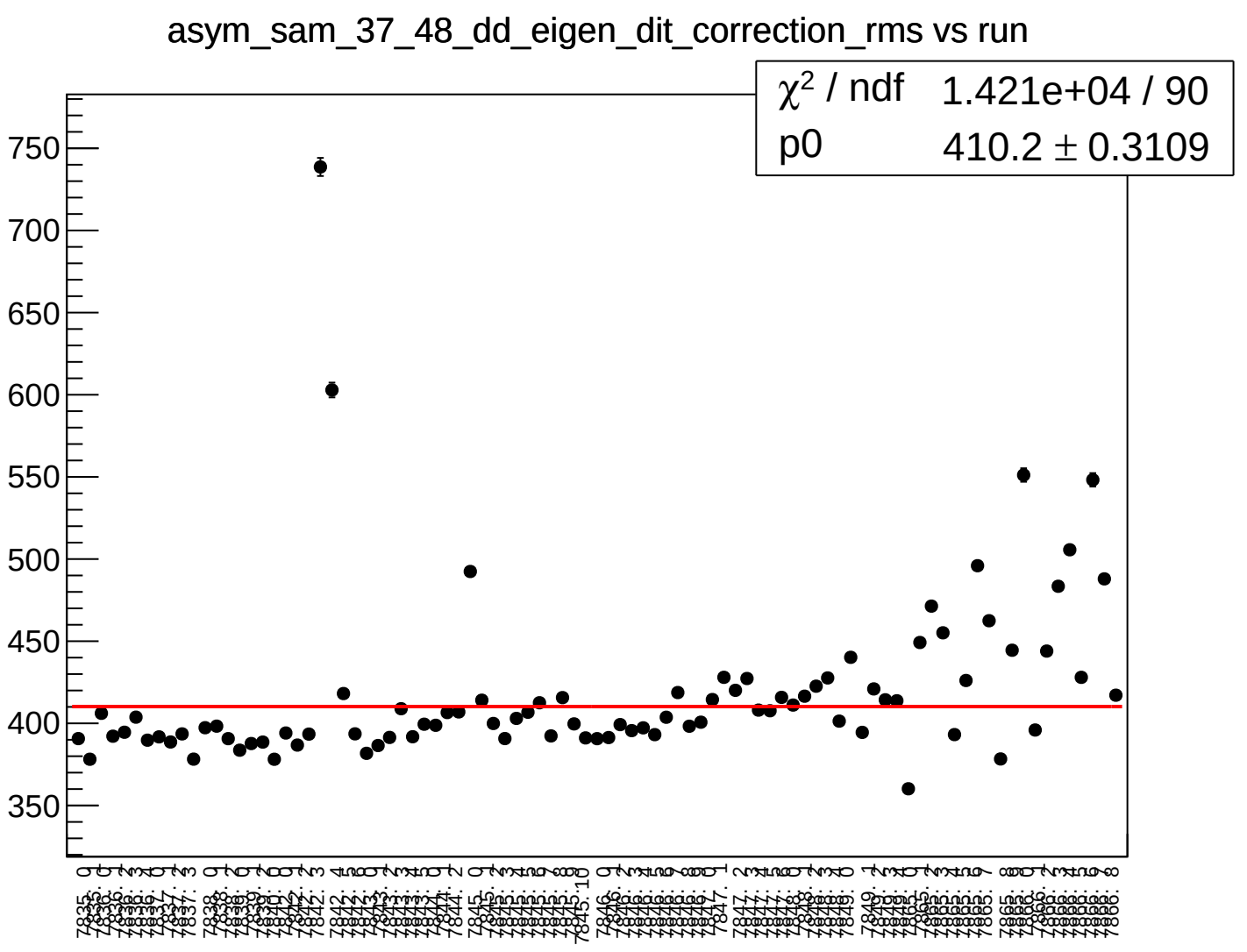

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.3 / 90
p0 −33.18 ± 88.31
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 449.7
Std Dev 0
2
1
0
−1
−2

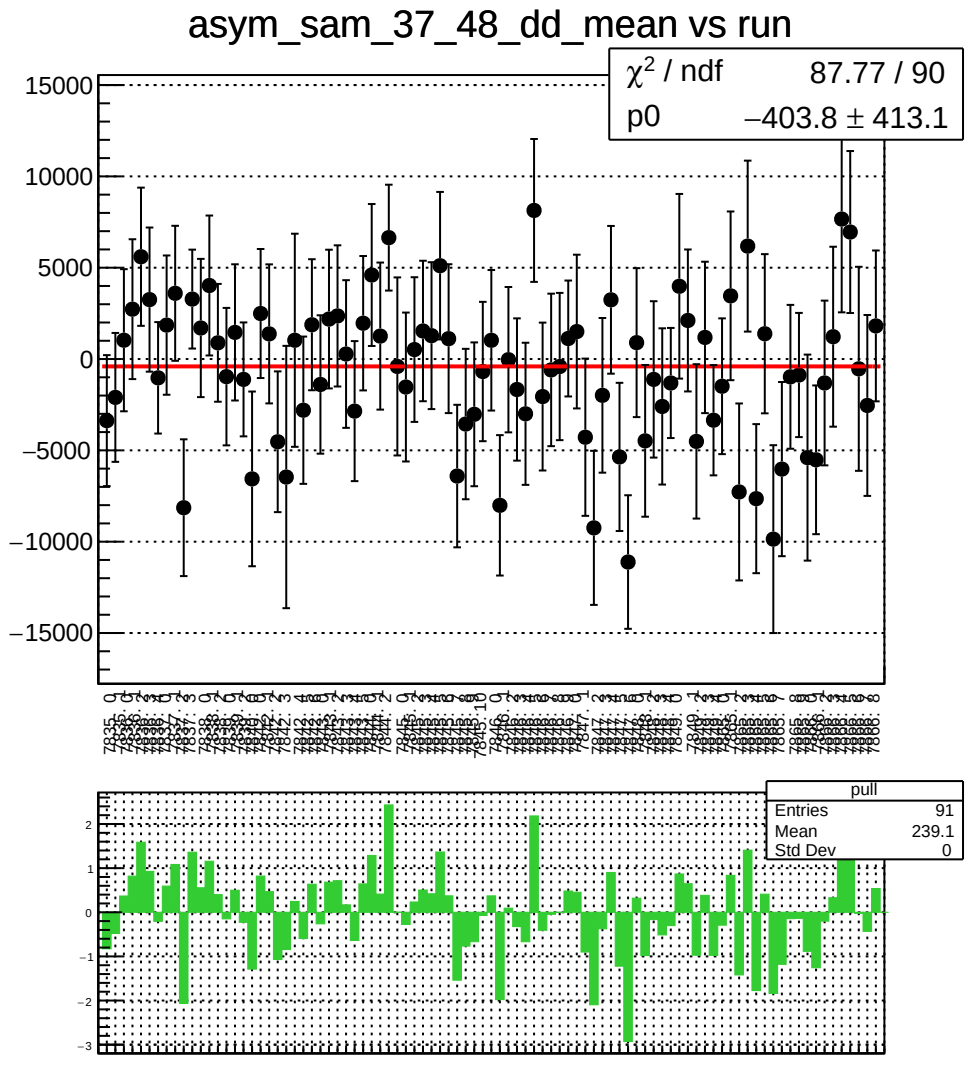

pull1D
Entries 91
Mean −0.001411
Std Dev 1.05
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

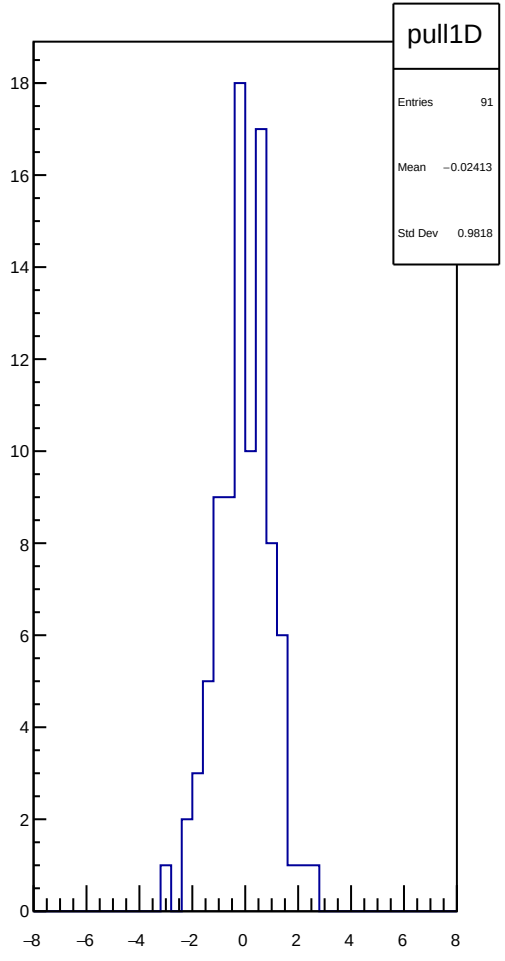

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.434e+04 / 90
p0 82.39 ± 0.06244
160
150
140
130
120
110
100
90
80
70

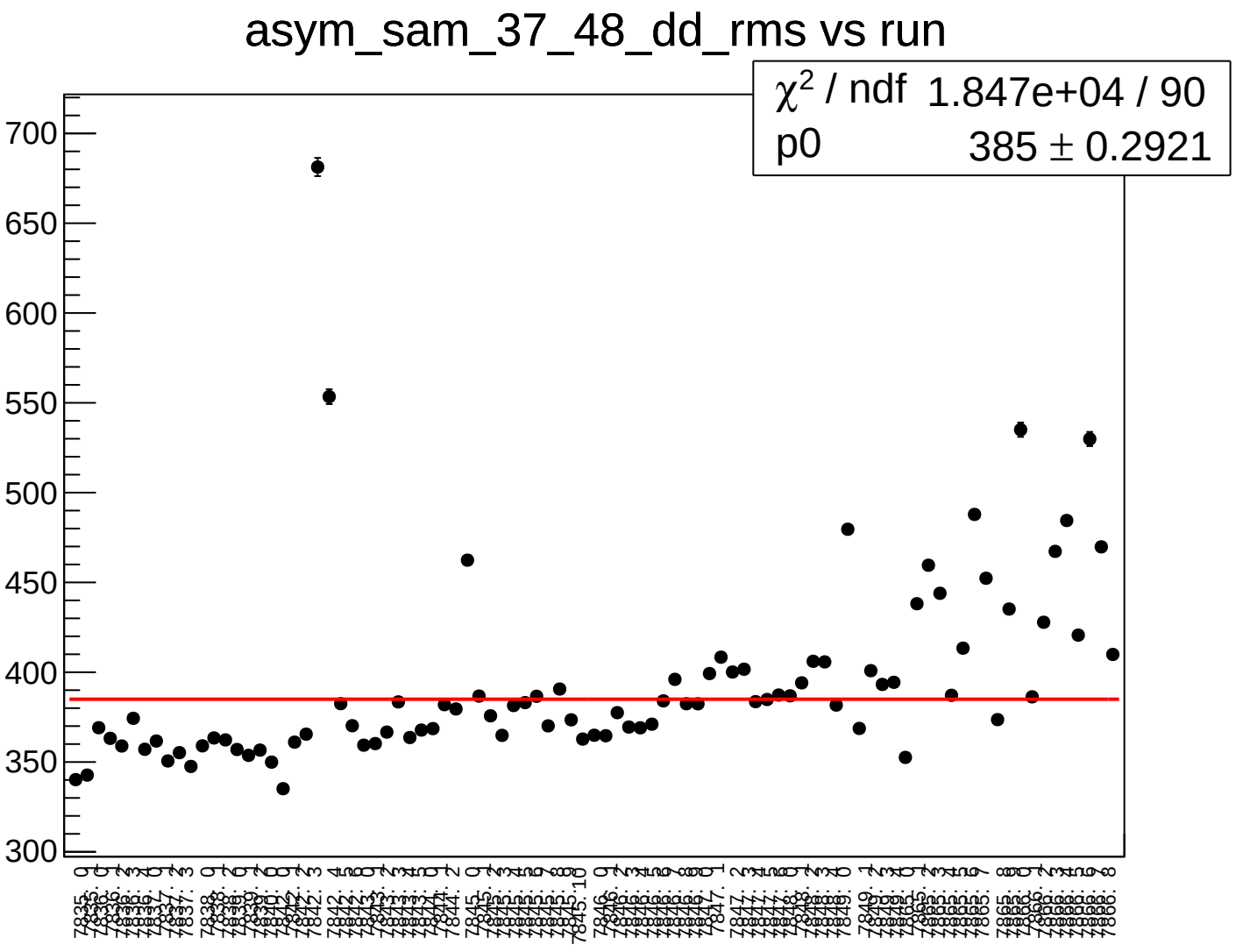

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.99 / 90
p0 375.4 ± 439.7
pull
Entries 91
Mean 241.9
Std Dev 0

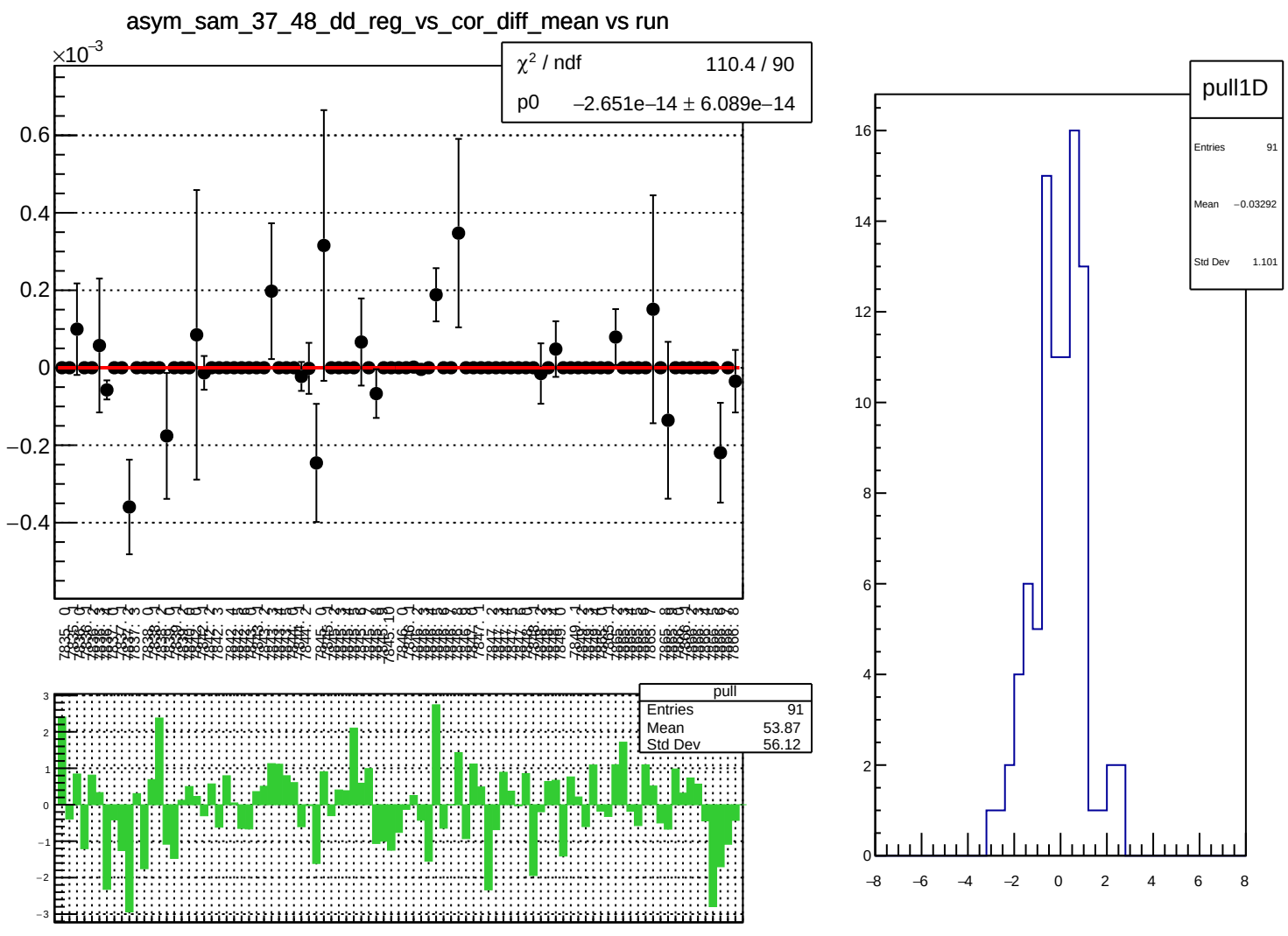

pull1D
Entries 91
Mean 0.02138
Std Dev 0.9719

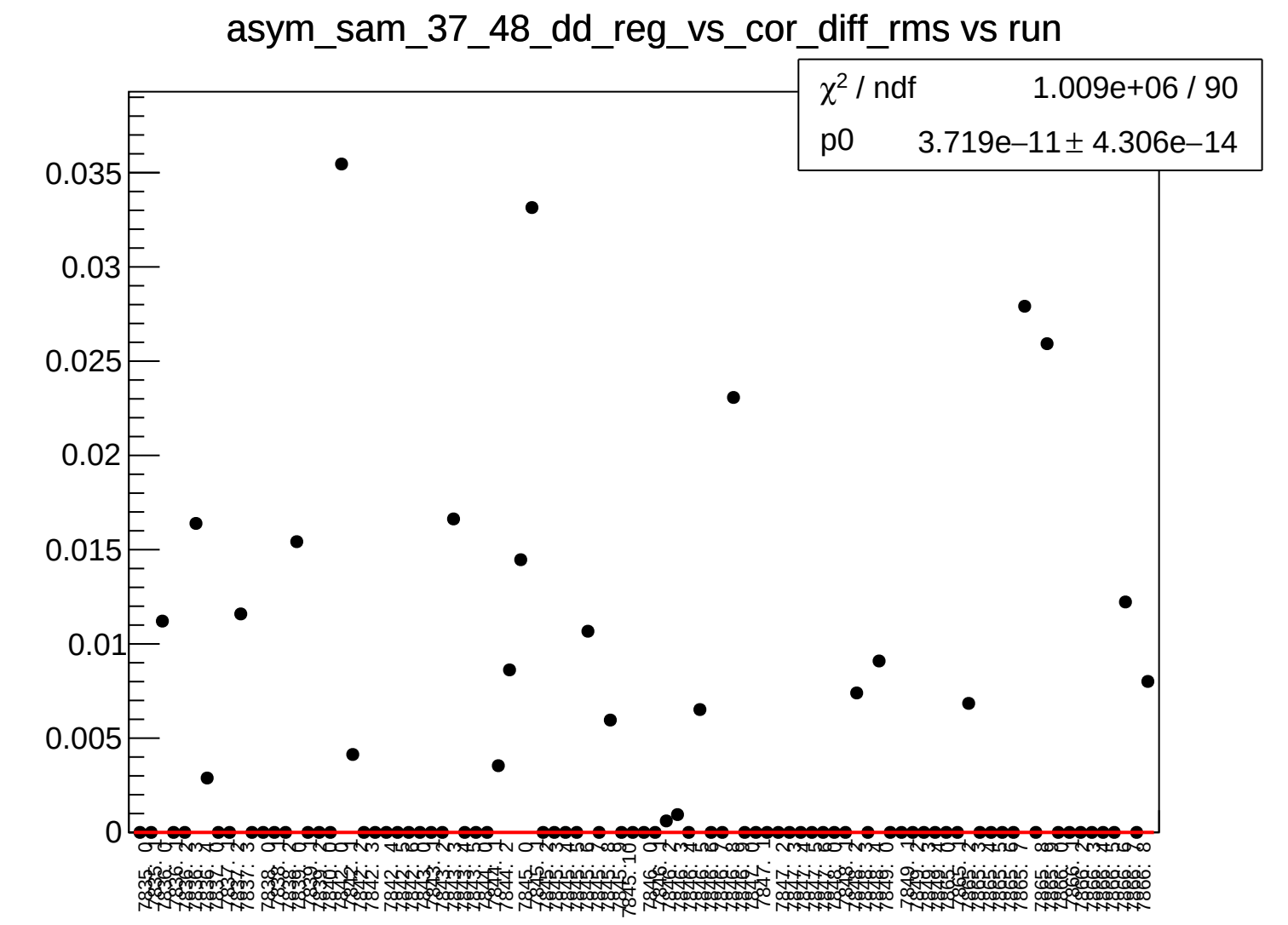

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.421e+04 / 90
p0 410.2 ± 0.3109
750
700
650
600
550
500
450
400
350

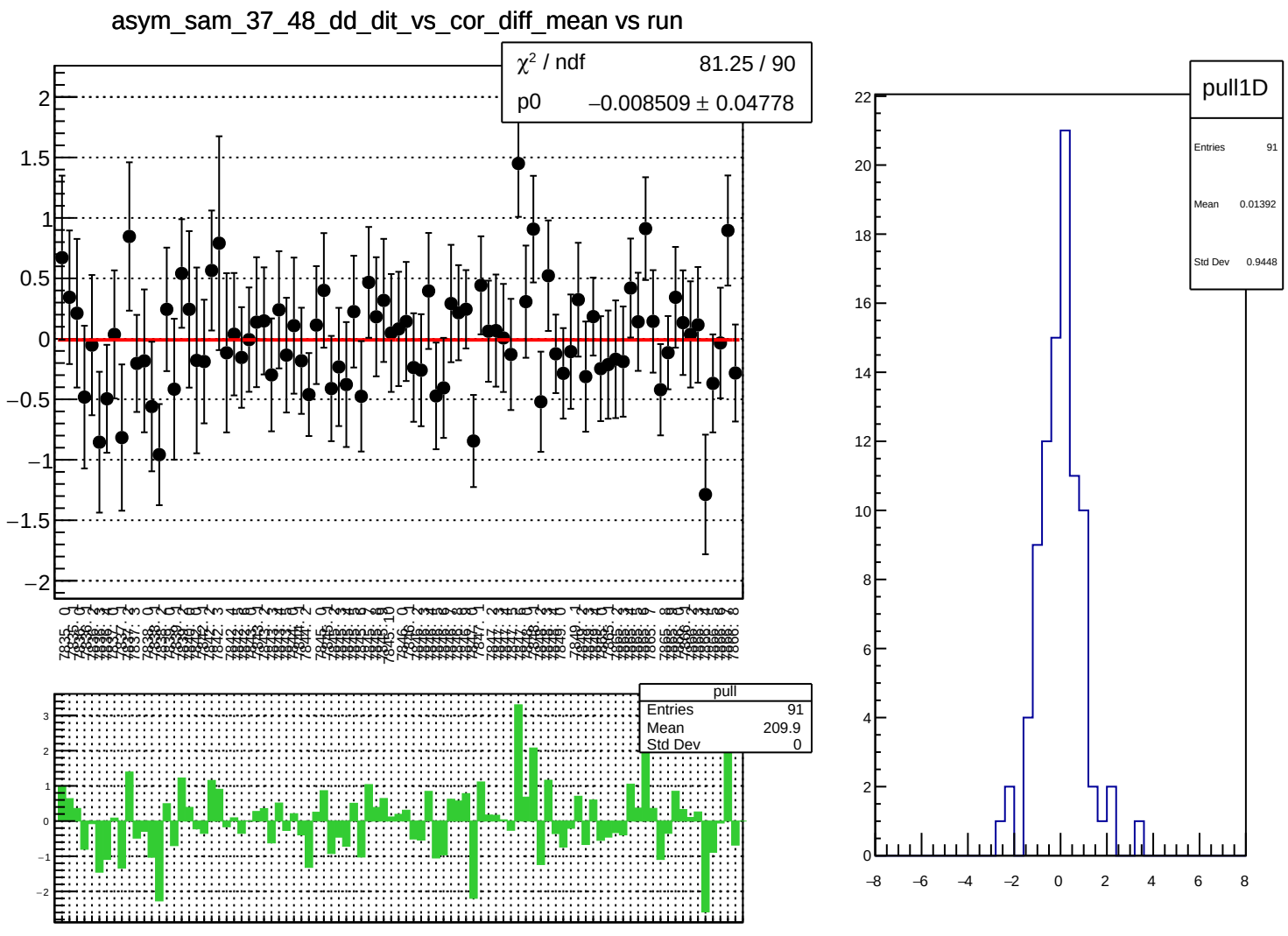

asym_sam_37_48_dd_mean vs run
χ² / ndf 87.77 / 90
p0 −403.8 ± 413.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 239.1
Std Dev 0
2
1
0
−1
−2
−3

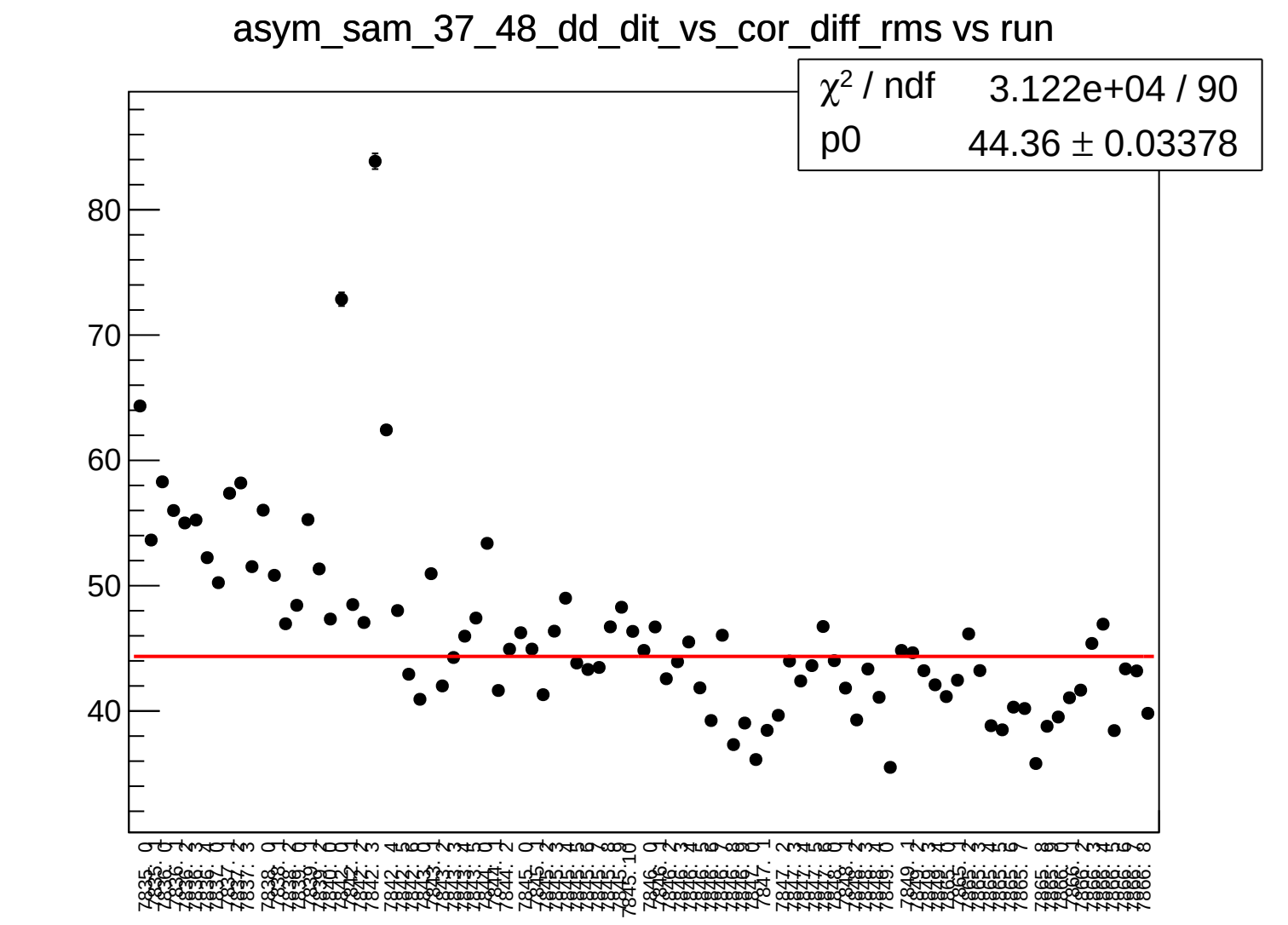

pull1D
Entries 91
Mean −0.02413
Std Dev 0.9818
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

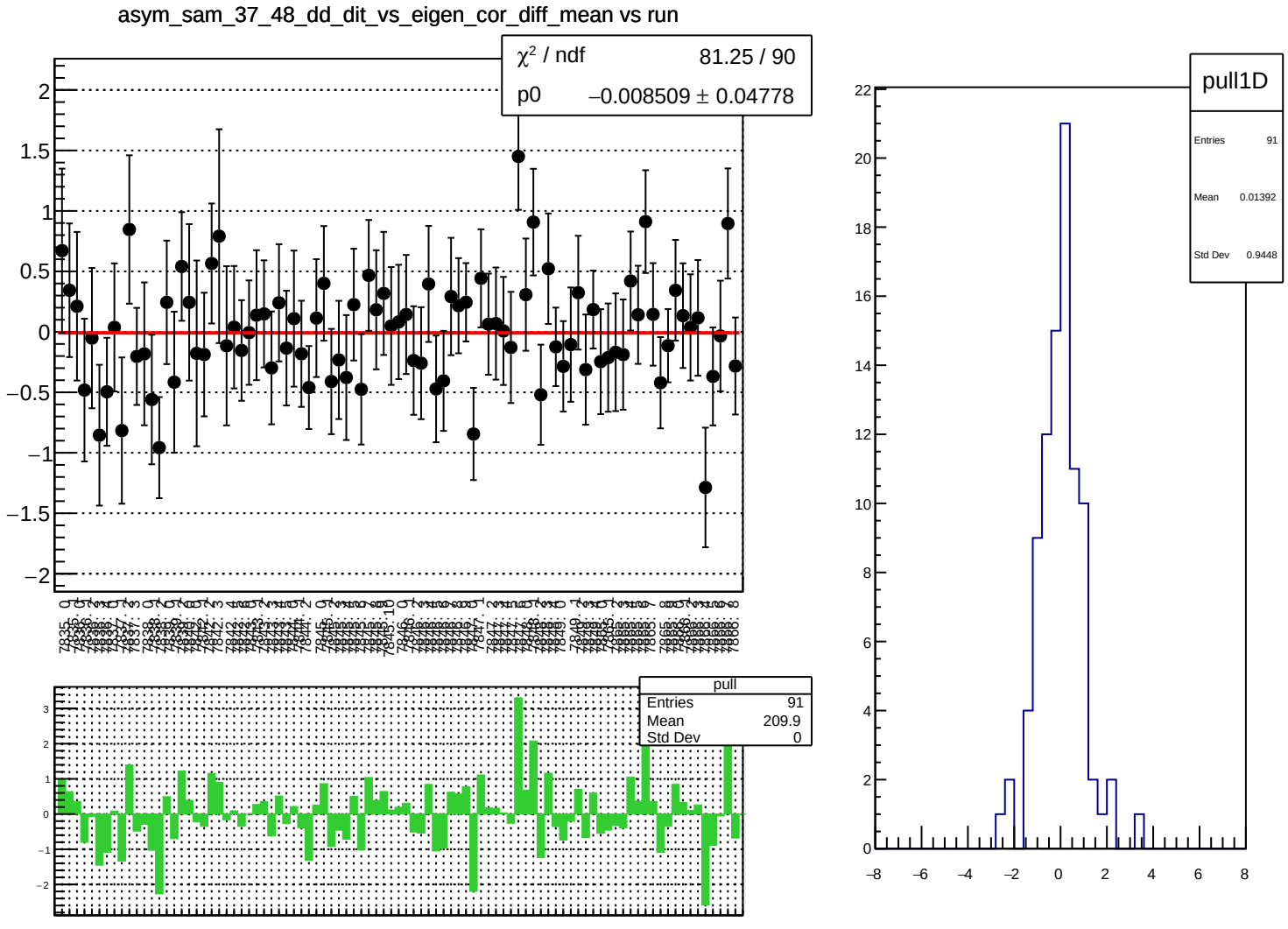

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.847e+04 / 90
p0 385 ± 0.2921
700
650
600
550
500
450
400
350
300

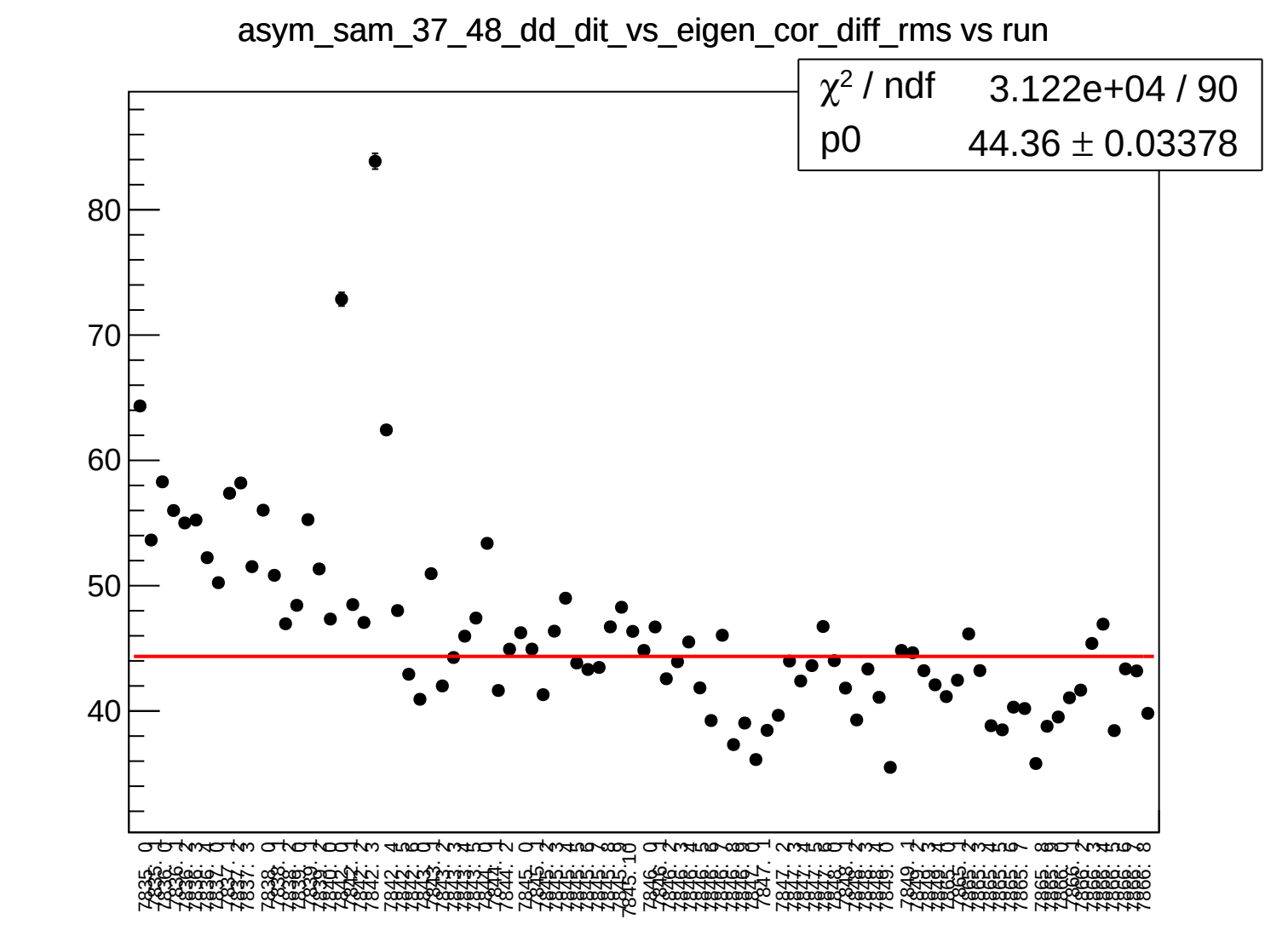

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 110.4 / 90
p0 −2.651e−14 ± 6.089e−14
pull
Entries 91
Mean 53.87
Std Dev 56.12
pull1D
Entries 91
Mean −0.03292
Std Dev 1.101

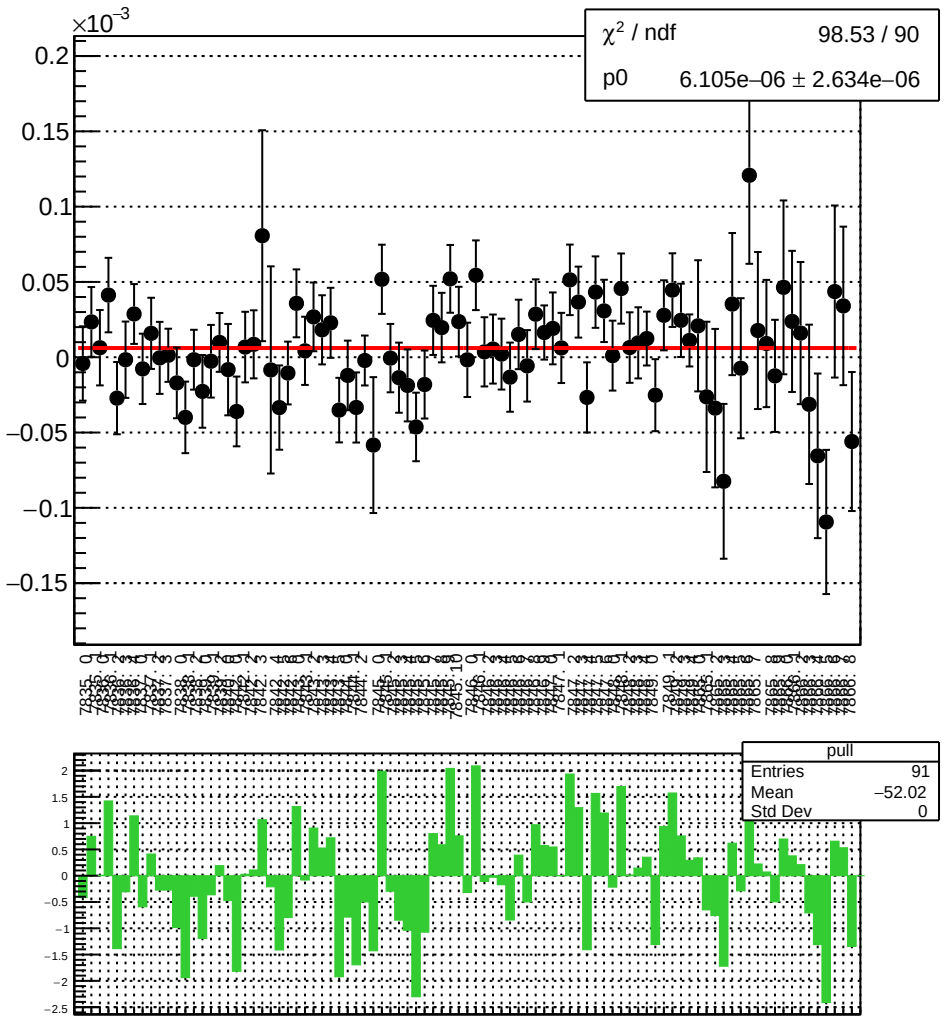

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 90
p0 3.719e−11 ± 4.306e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

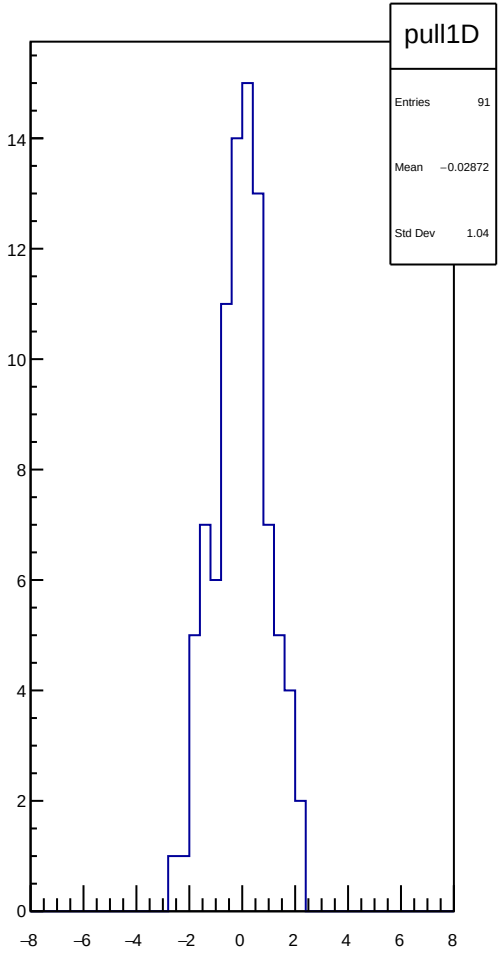

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 90
p0 −0.008509 ± 0.04778
pull
Entries 91
Mean 209.9
Std Dev 0
pull1D
Entries 91
Mean 0.01392
Std Dev 0.9448

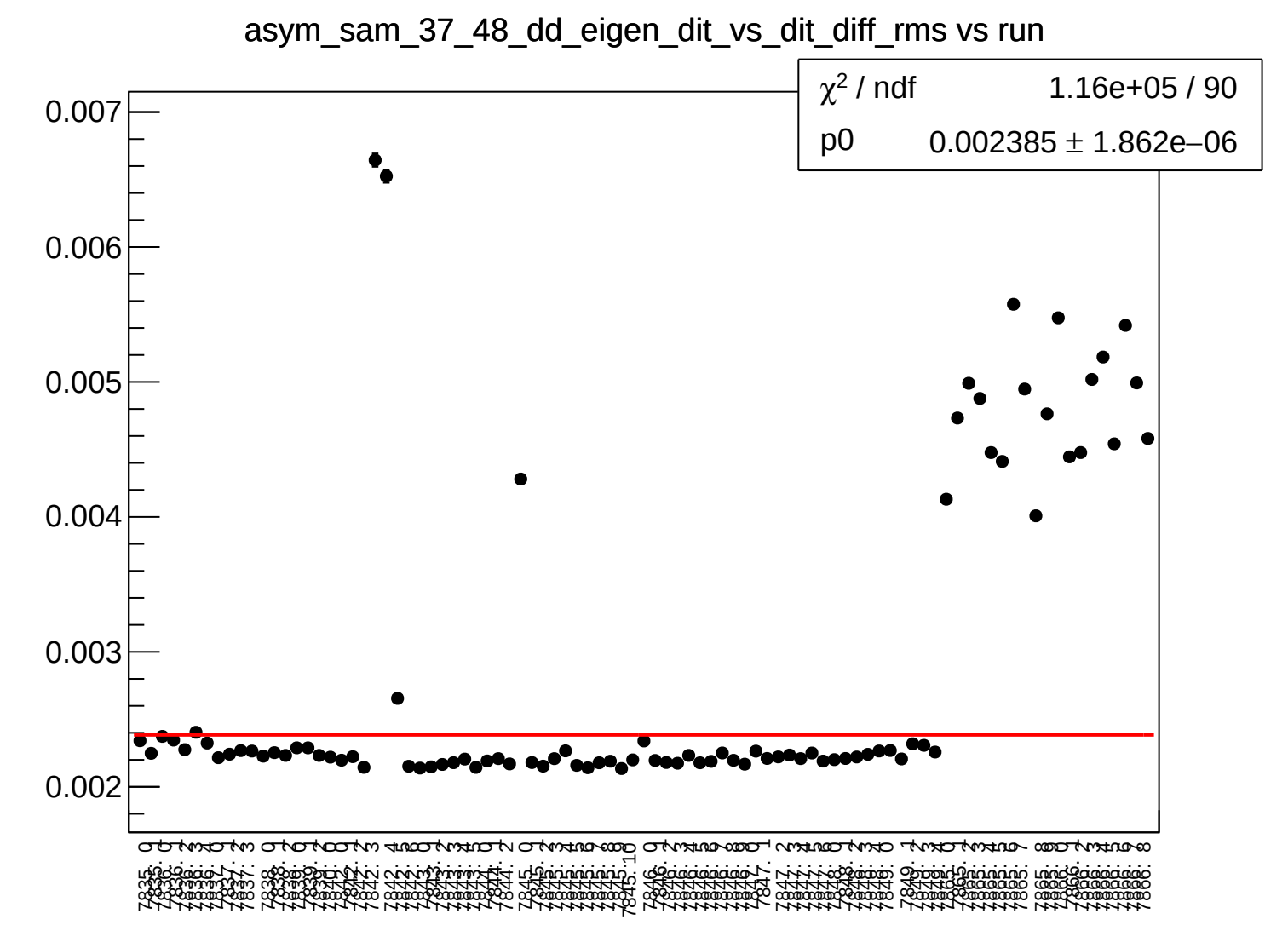

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.122e+04 / 90
p0 44.36 ± 0.03378
80
70
60
50
40

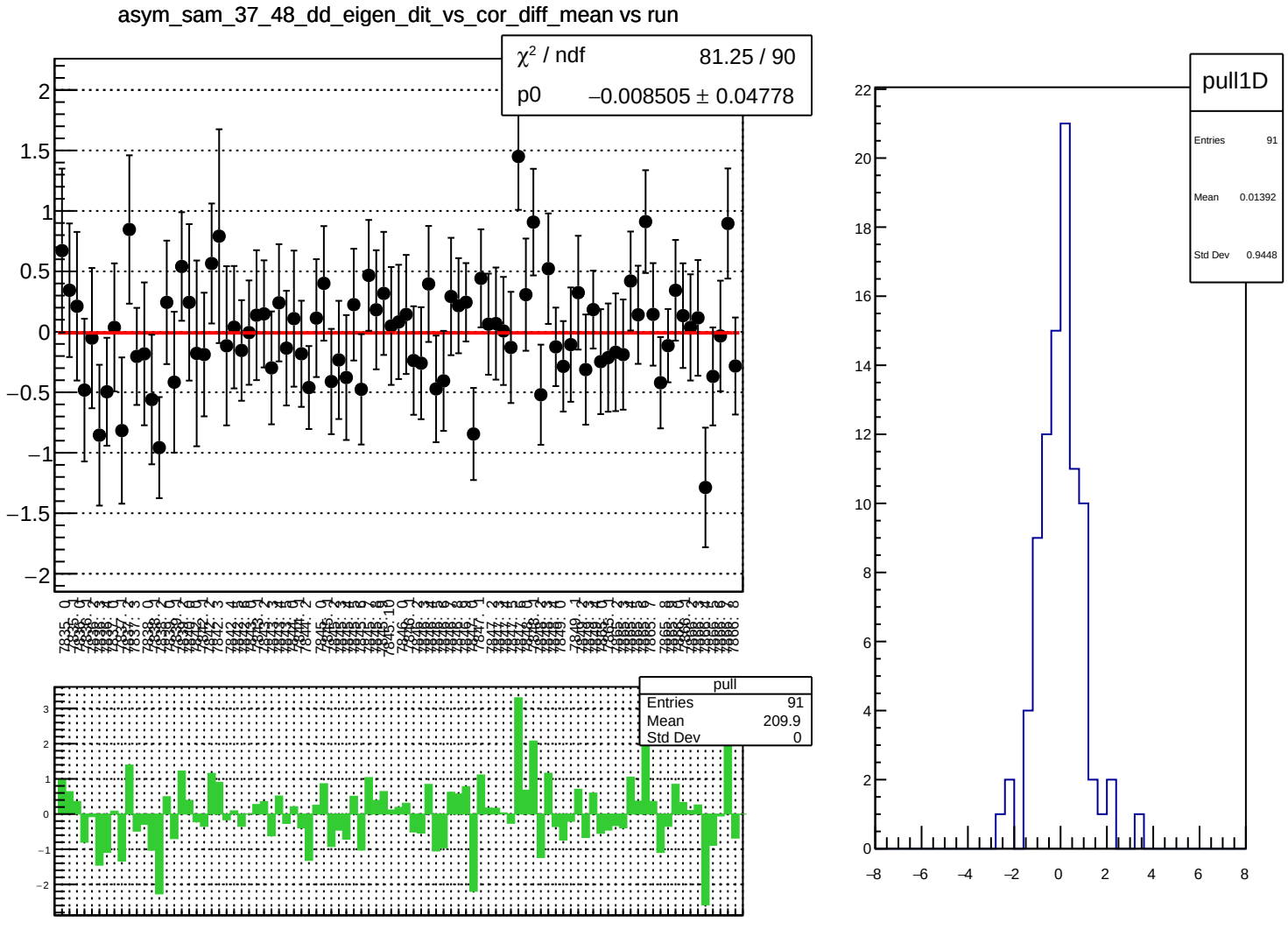

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 90
p0 −0.008509 ± 0.04778
pull
Entries 91
Mean 209.9
Std Dev 0
pull1D
Entries 91
Mean 0.01392
Std Dev 0.9448

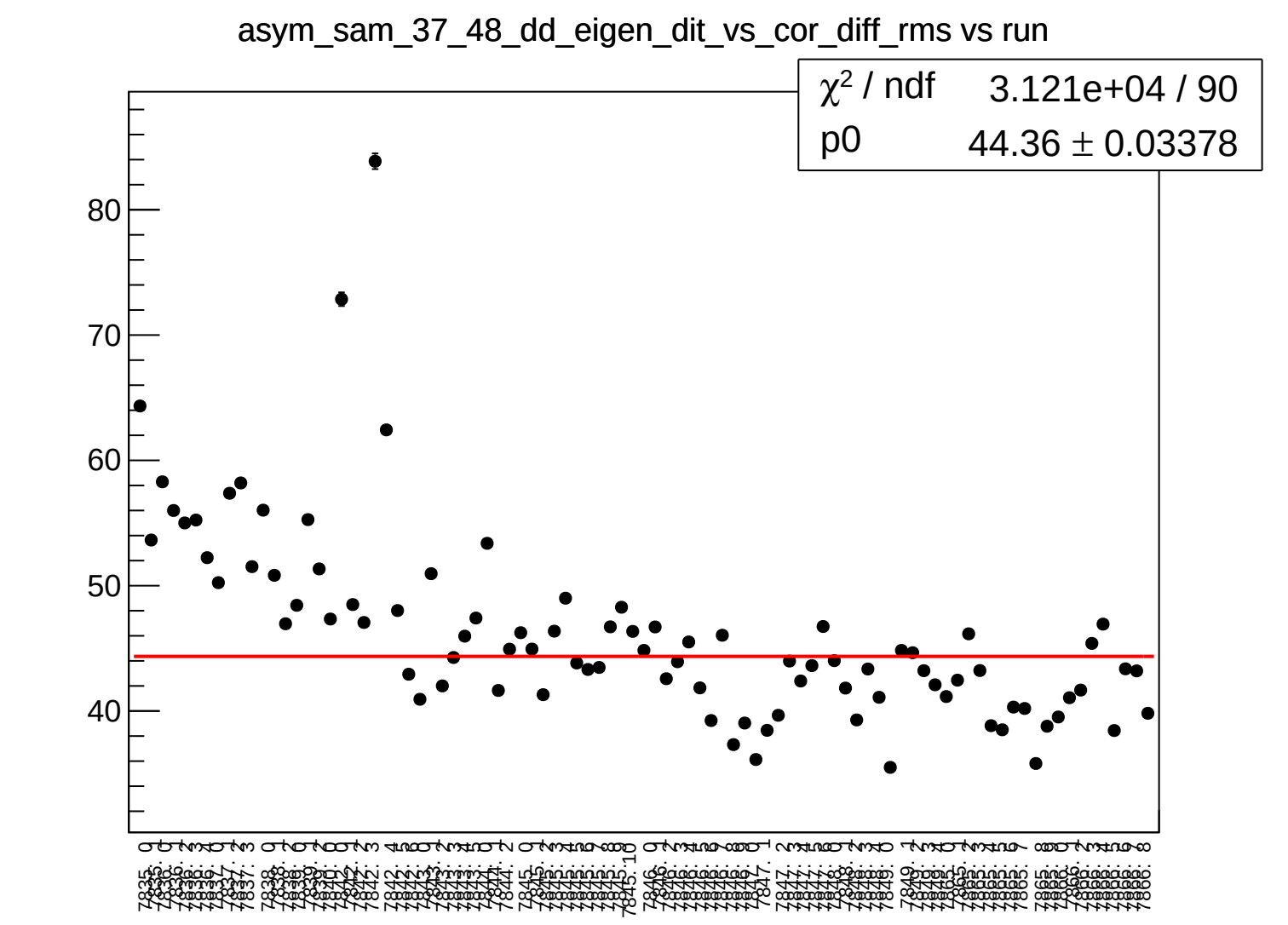

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.122e+04 / 90
p0 44.36 ± 0.03378
80
70
60
50
40

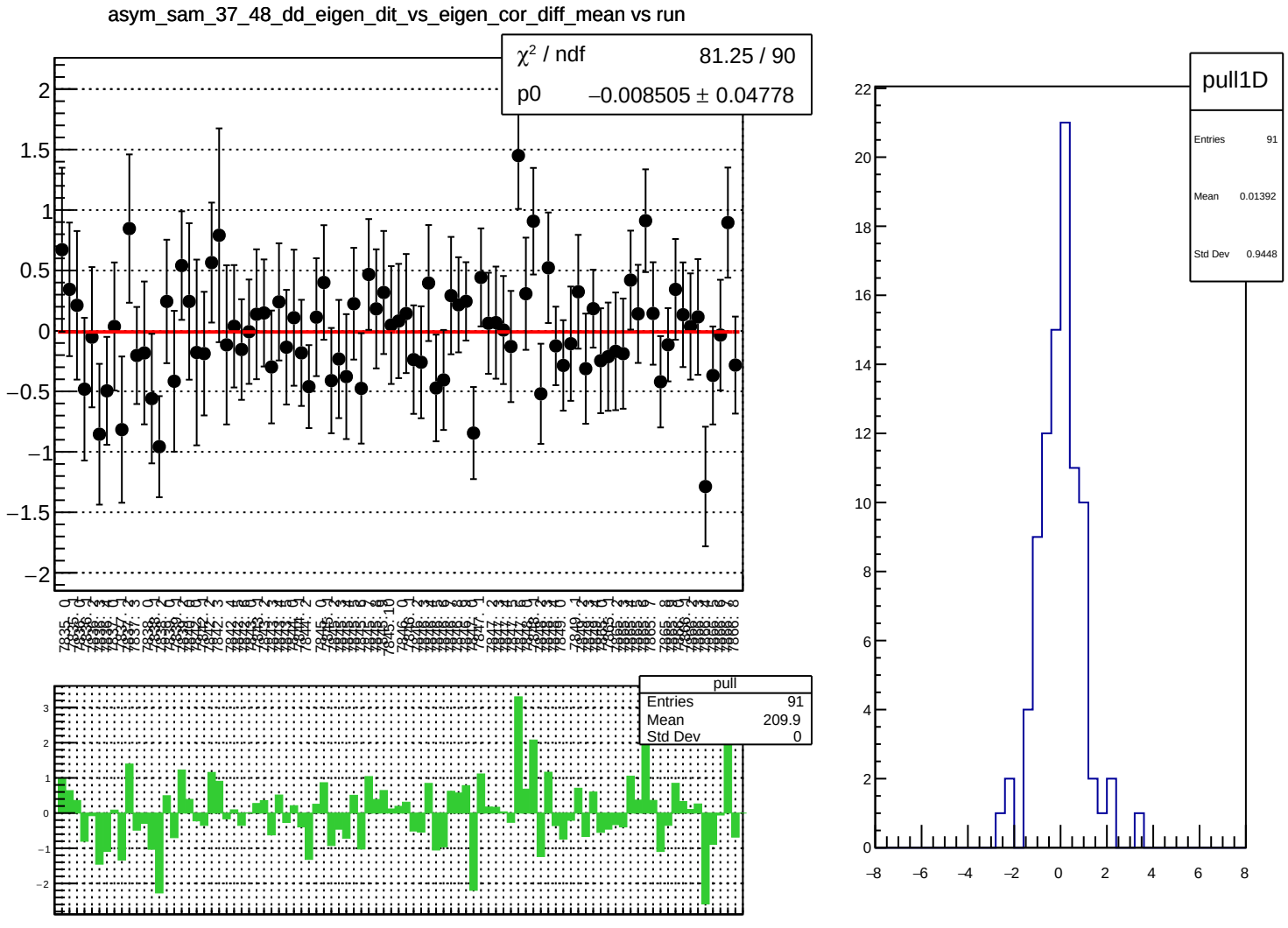

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.53 / 90
p0 6.105e−06 ± 2.634e−06
pull
Entries 91
Mean −52.02
Std Dev 0

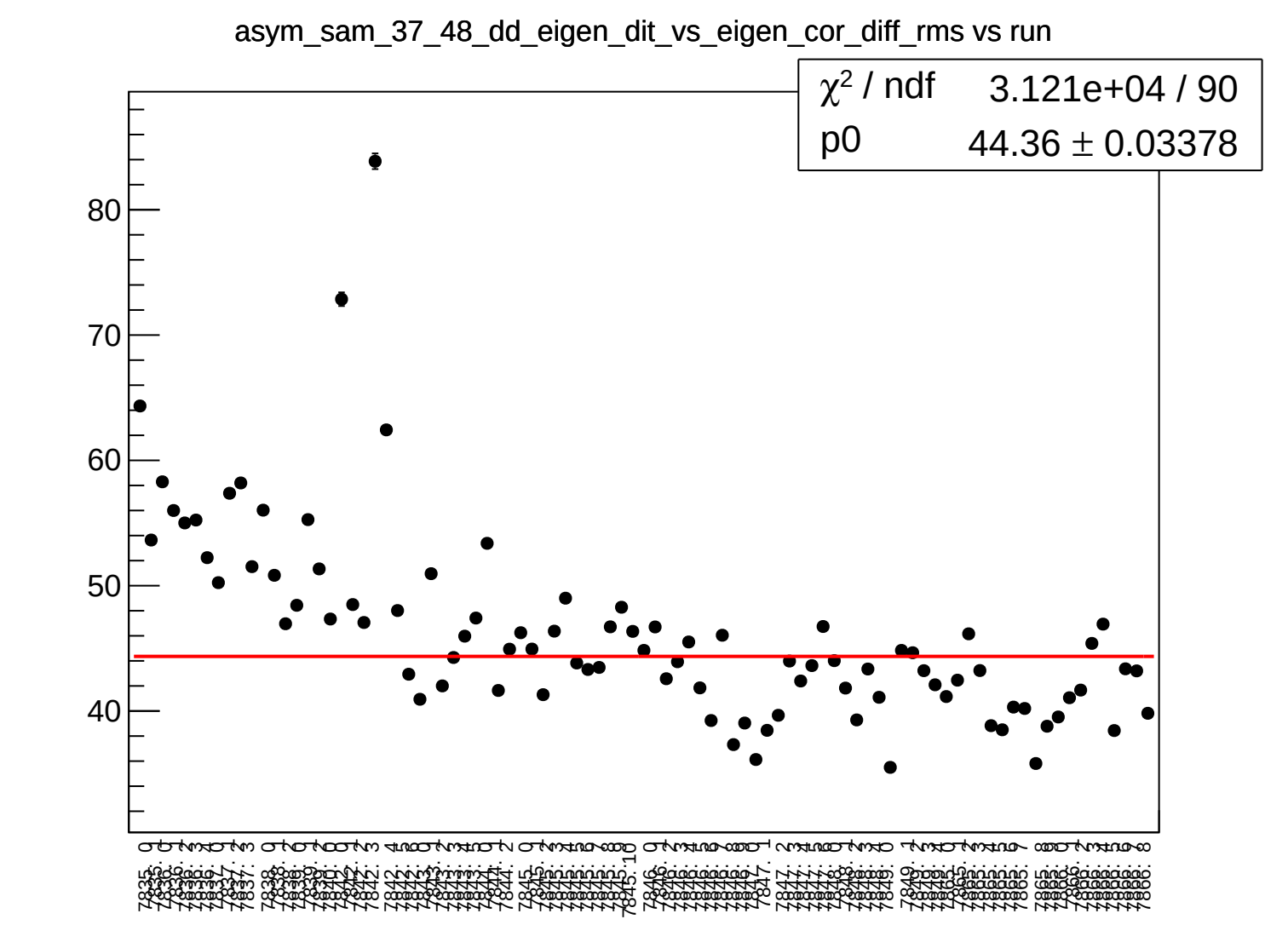

pull1D
Entries 91
Mean −0.02872
Std Dev 1.04

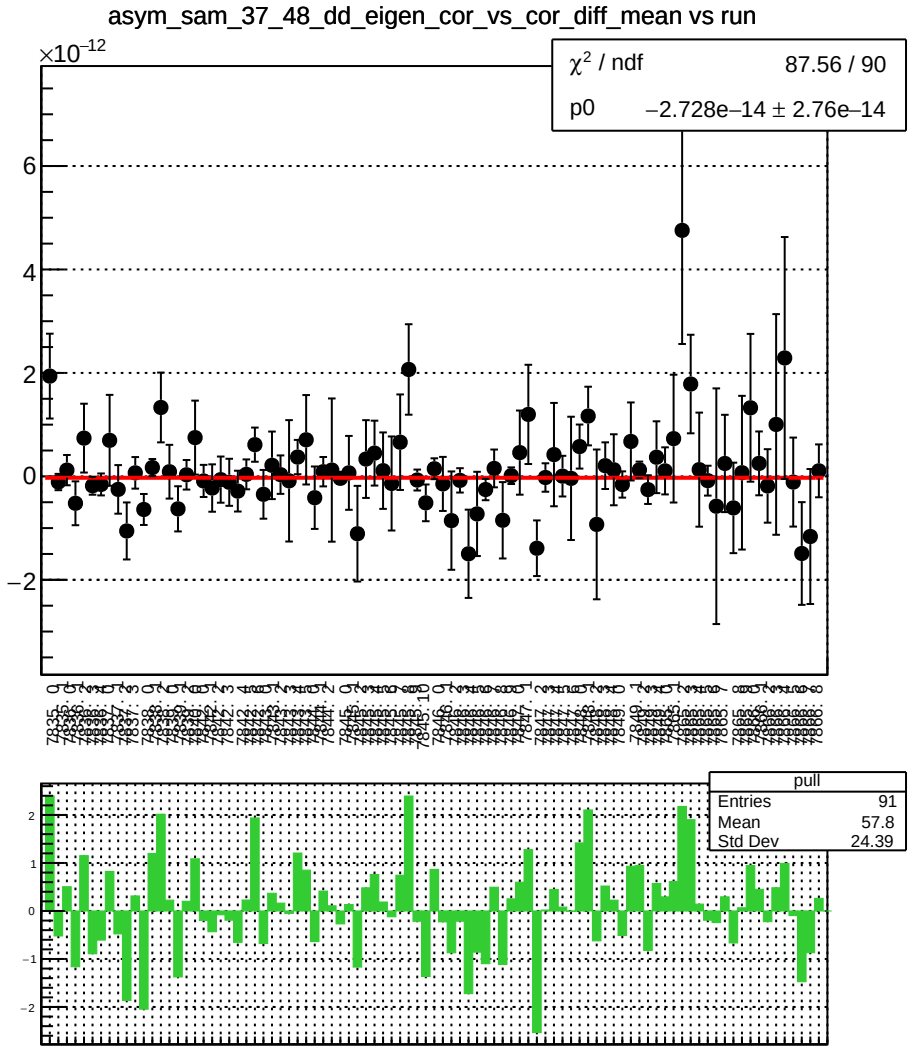

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.16e+05 / 90
p0 0.002385 ± 1.862e−06
0.007
0.006
0.005
0.004
0.003
0.002

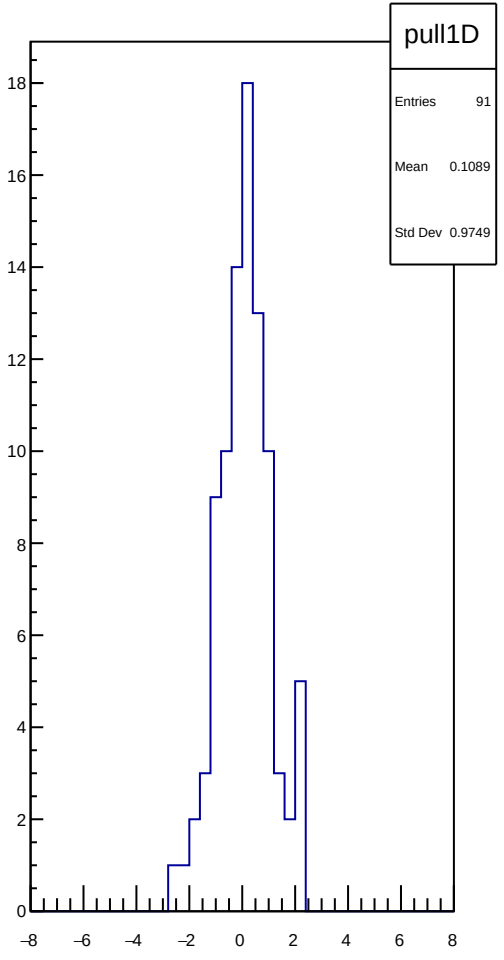

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 90
p0 −0.008505 ± 0.04778
pull
Entries 91
Mean 209.9
Std Dev 0
pull1D
Entries 91
Mean 0.01392
Std Dev 0.9448

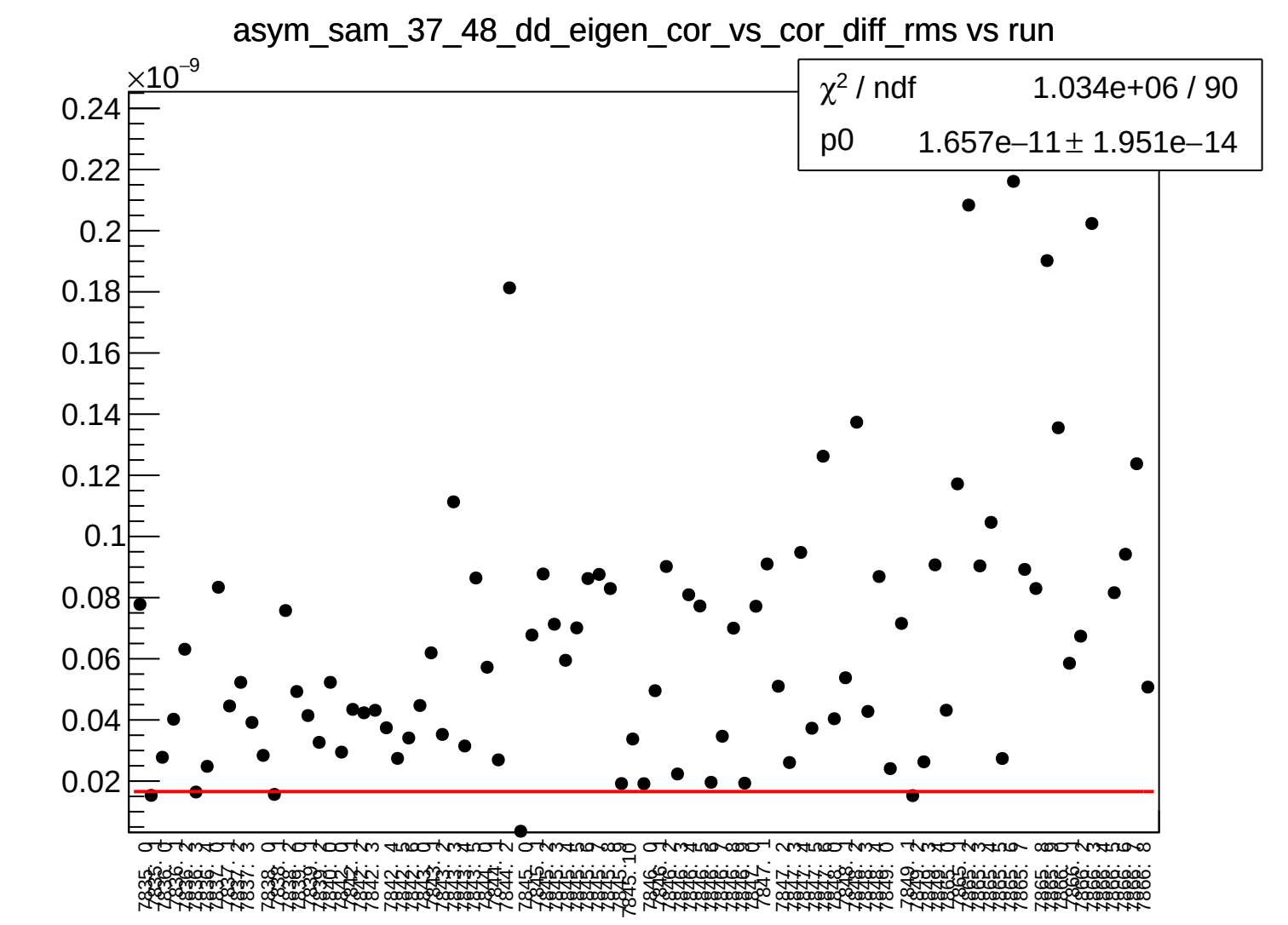

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 90
p0 44.36 ± 0.03378
80
70
60
50
40

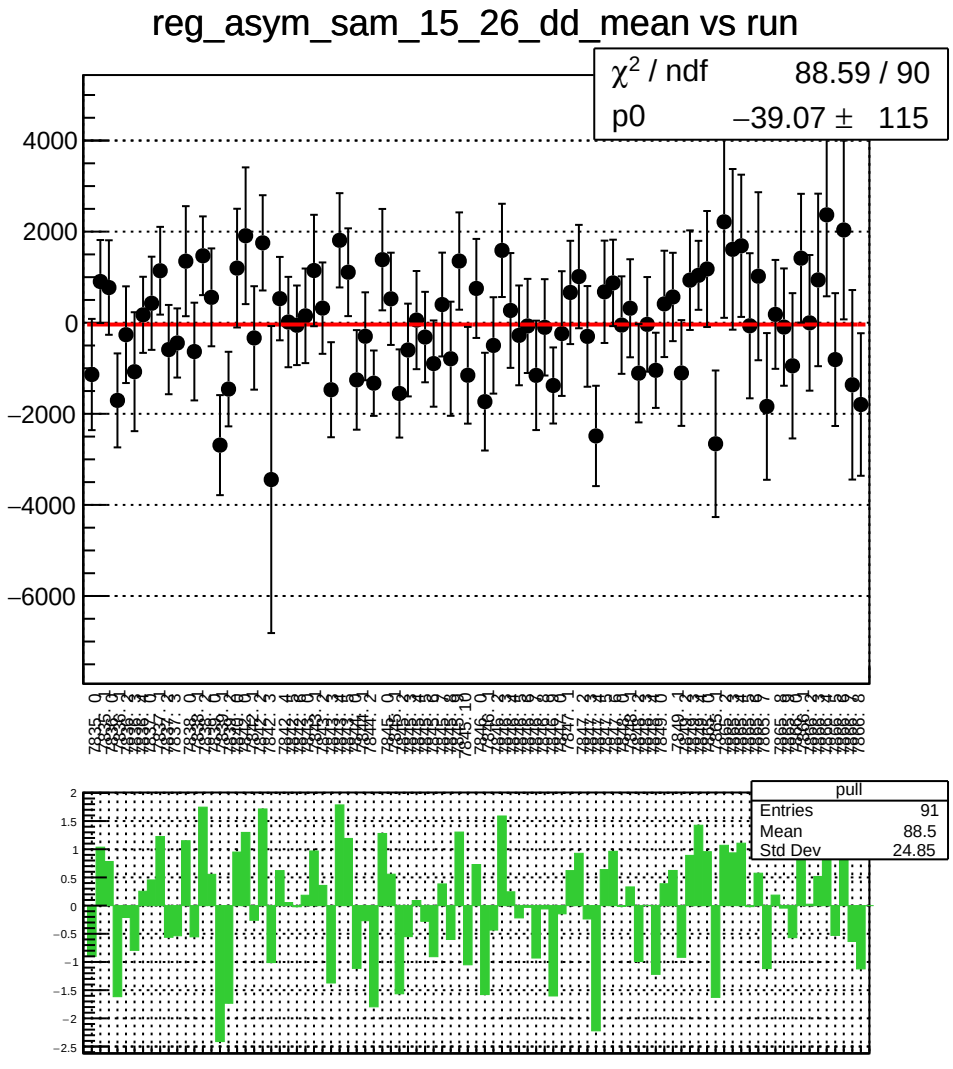

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 90
p0 −0.008505 ± 0.04778
pull
Entries 91
Mean 209.9
Std Dev 0
pull1D
Entries 91
Mean 0.01392
Std Dev 0.9448

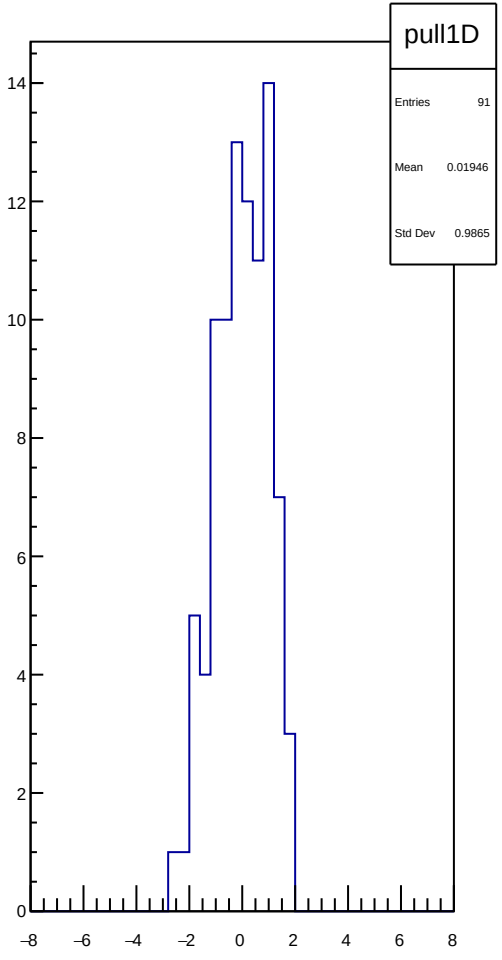

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 90
p0 44.36 ± 0.03378
80
70
60
50
40

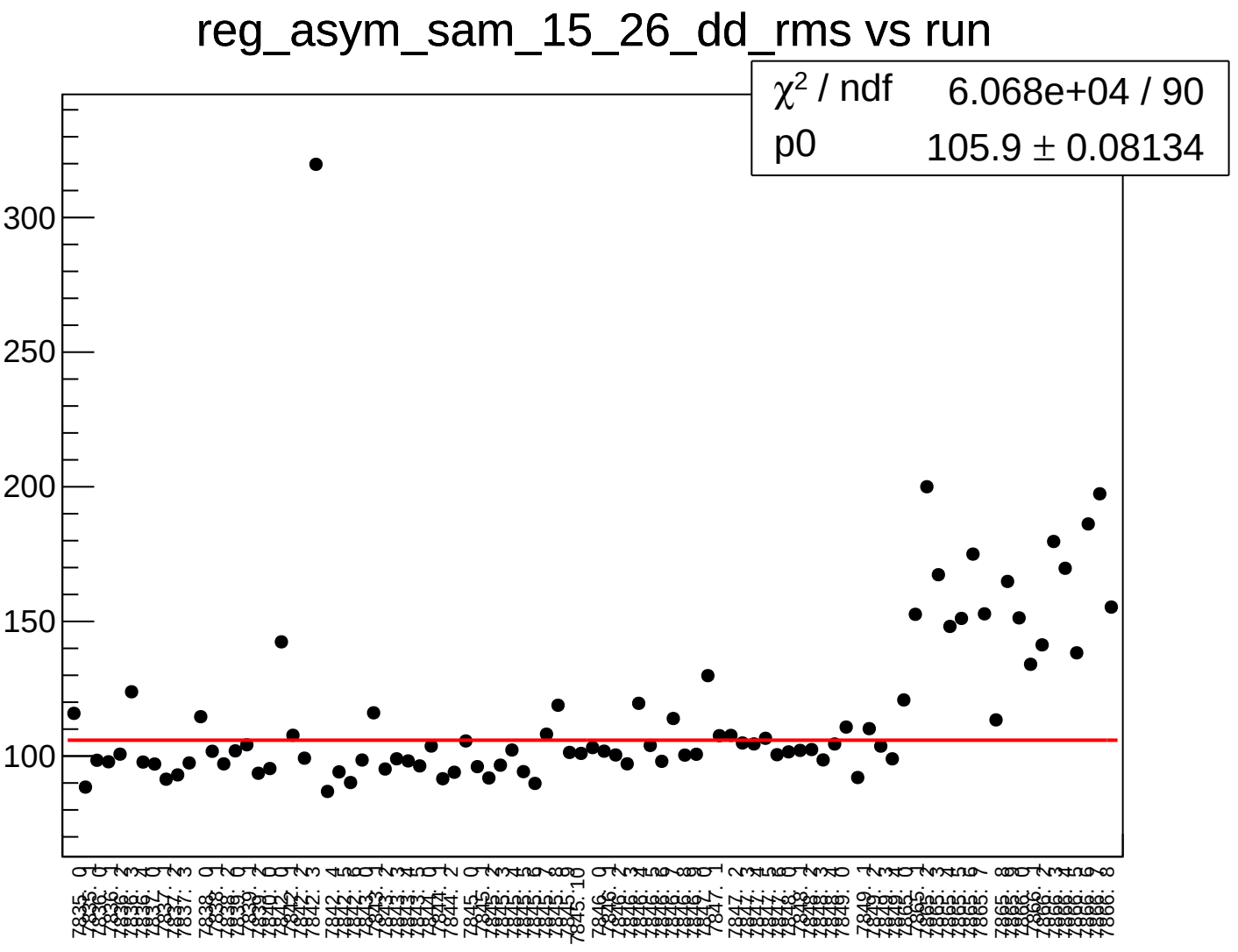

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.56 / 90
p0 −2.728e−14 ± 2.76e−14
pull
Entries 91
Mean 57.8
Std Dev 24.39

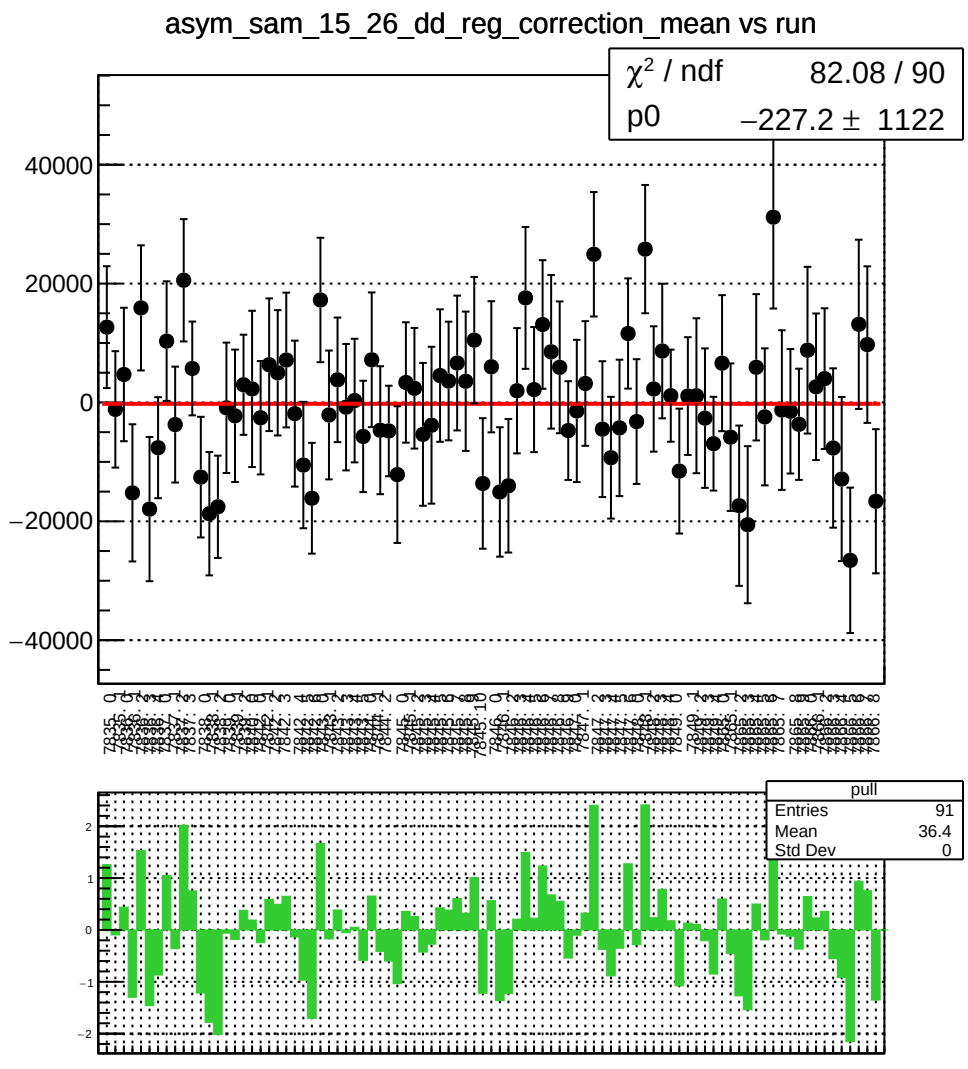

pull1D
Entries 91
Mean 0.1089
Std Dev 0.9749

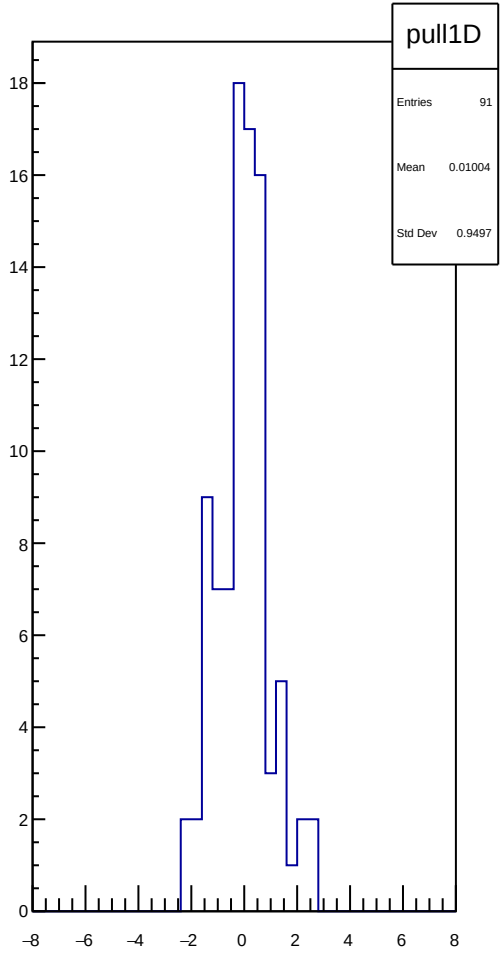

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.034e+06 / 90
p0 1.657e−11 ± 1.951e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

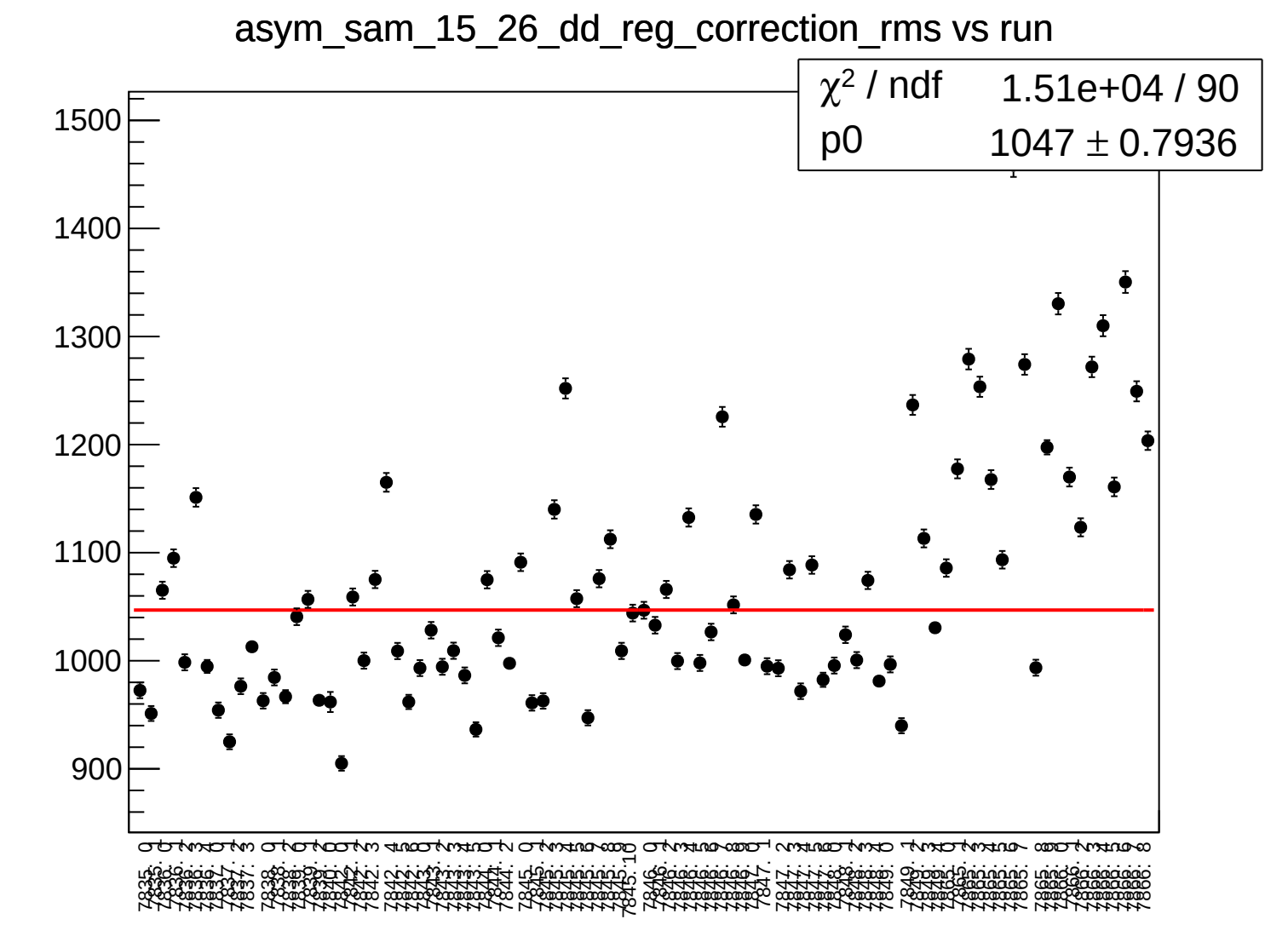

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.59 / 90
p0 −39.07 ± 115
pull
Entries 91
Mean 88.5
Std Dev 24.85

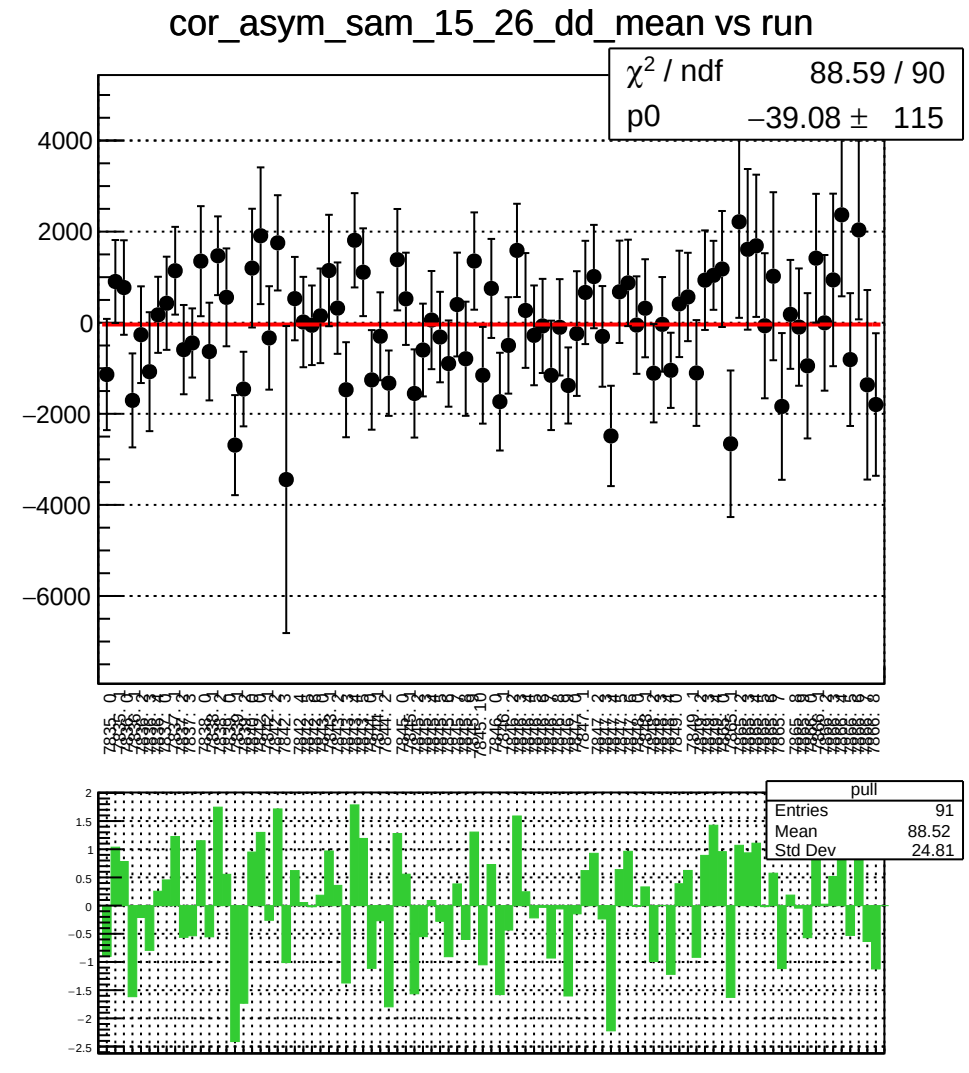

pull1D
Entries 91
Mean 0.01946
Std Dev 0.9865

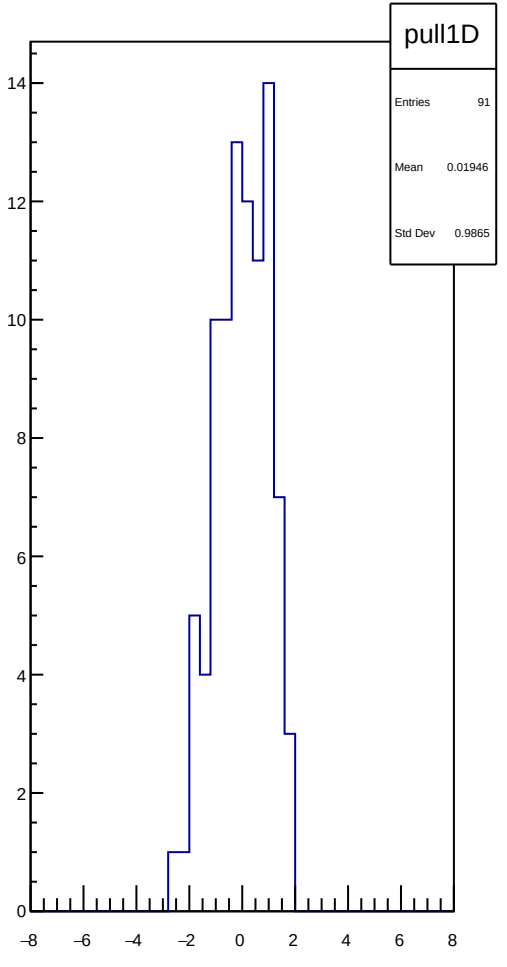

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 6.068e+04 / 90
p0 105.9 ± 0.08134
300
250
200
150
100

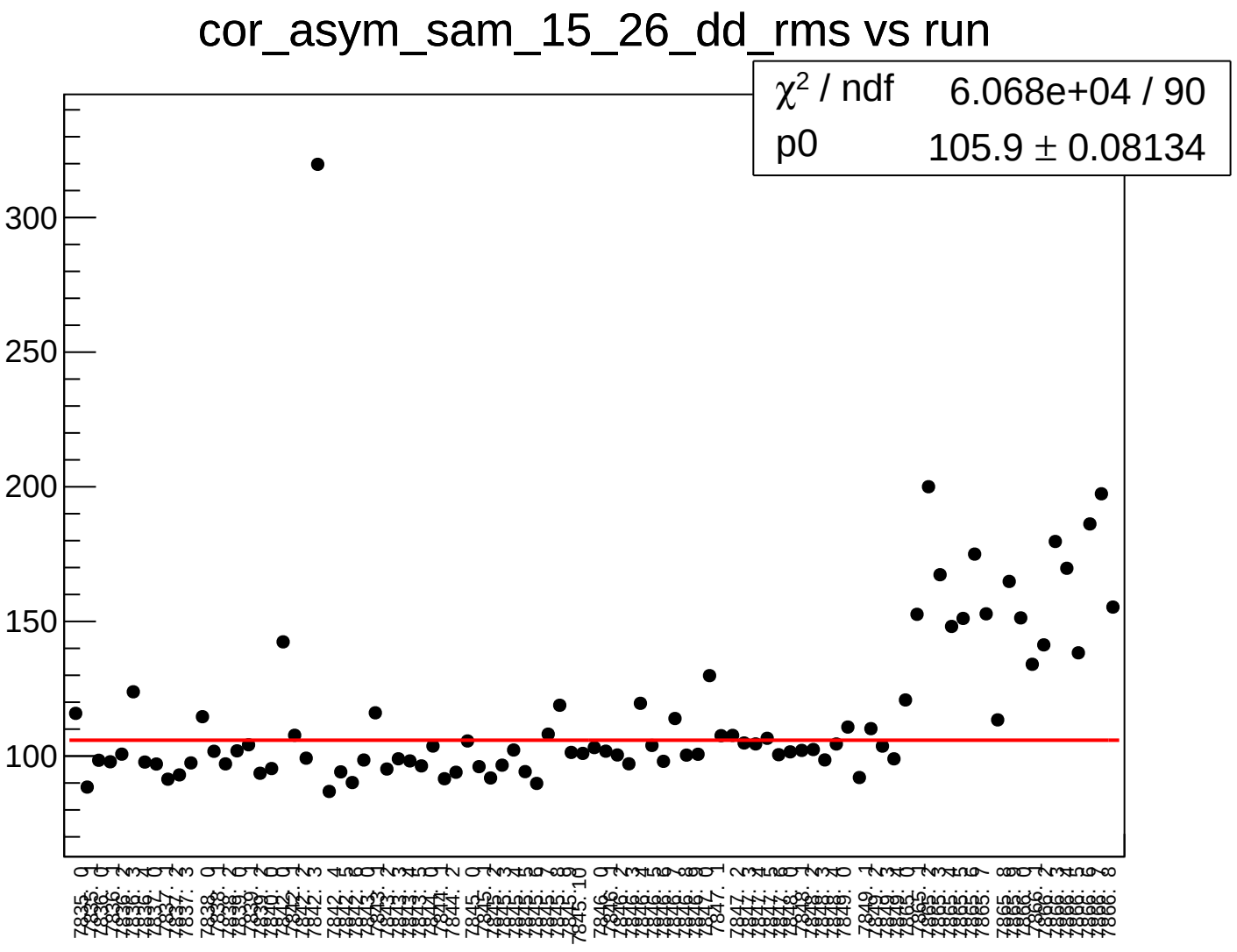

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 82.08 / 90
p0 −227.2 ± 1122
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 36.4
Std Dev 0
2
1
0
−1
−2

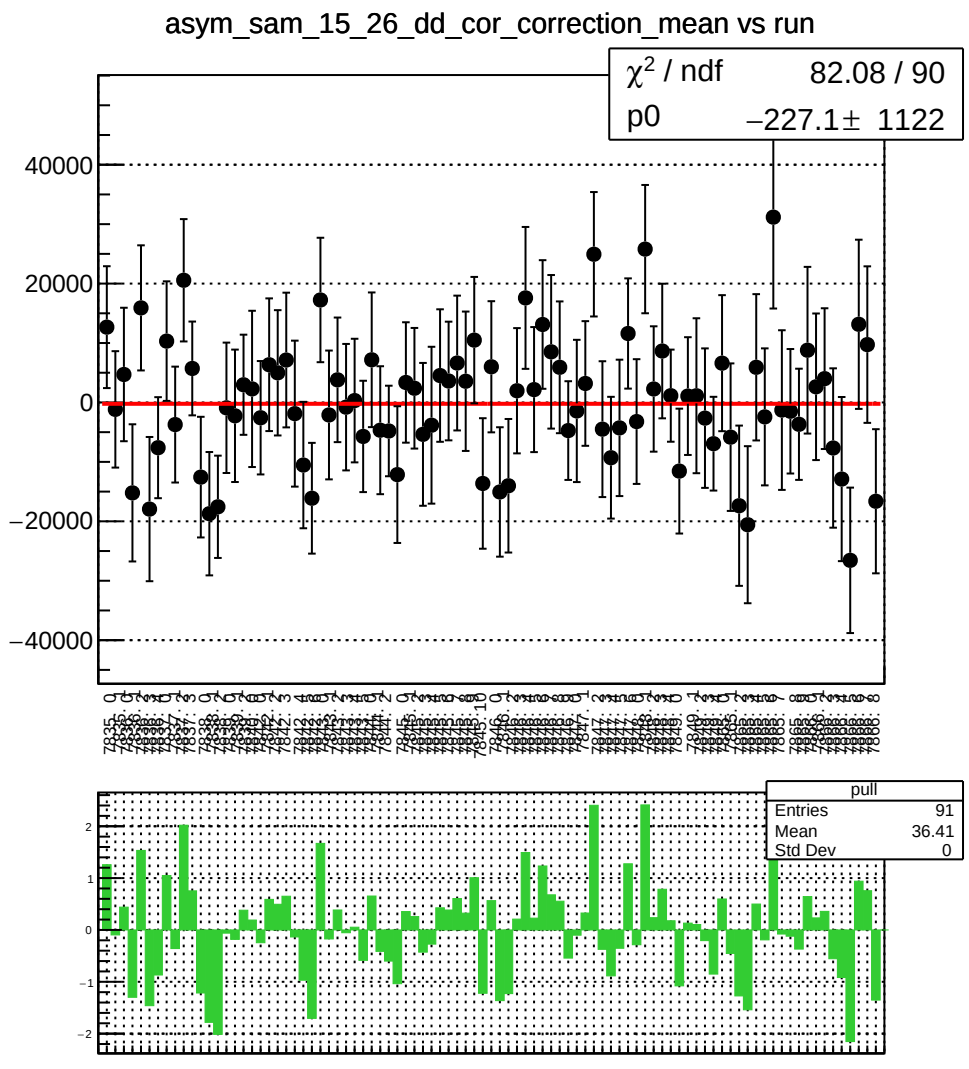

pull1D
Entries 91
Mean 0.01004
Std Dev 0.9497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

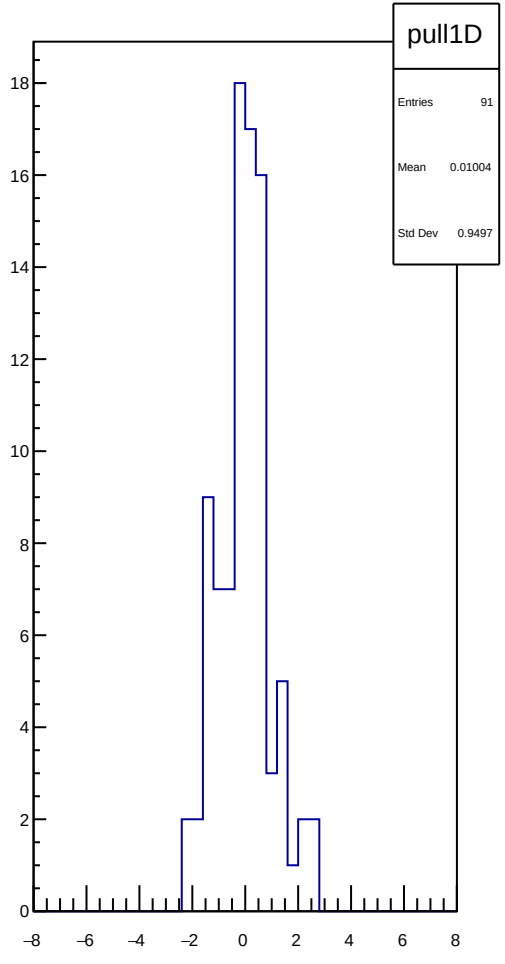

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.51e+04 / 90
p0 1047 ± 0.7936
1500
1400
1300
1200
1100
1000
900

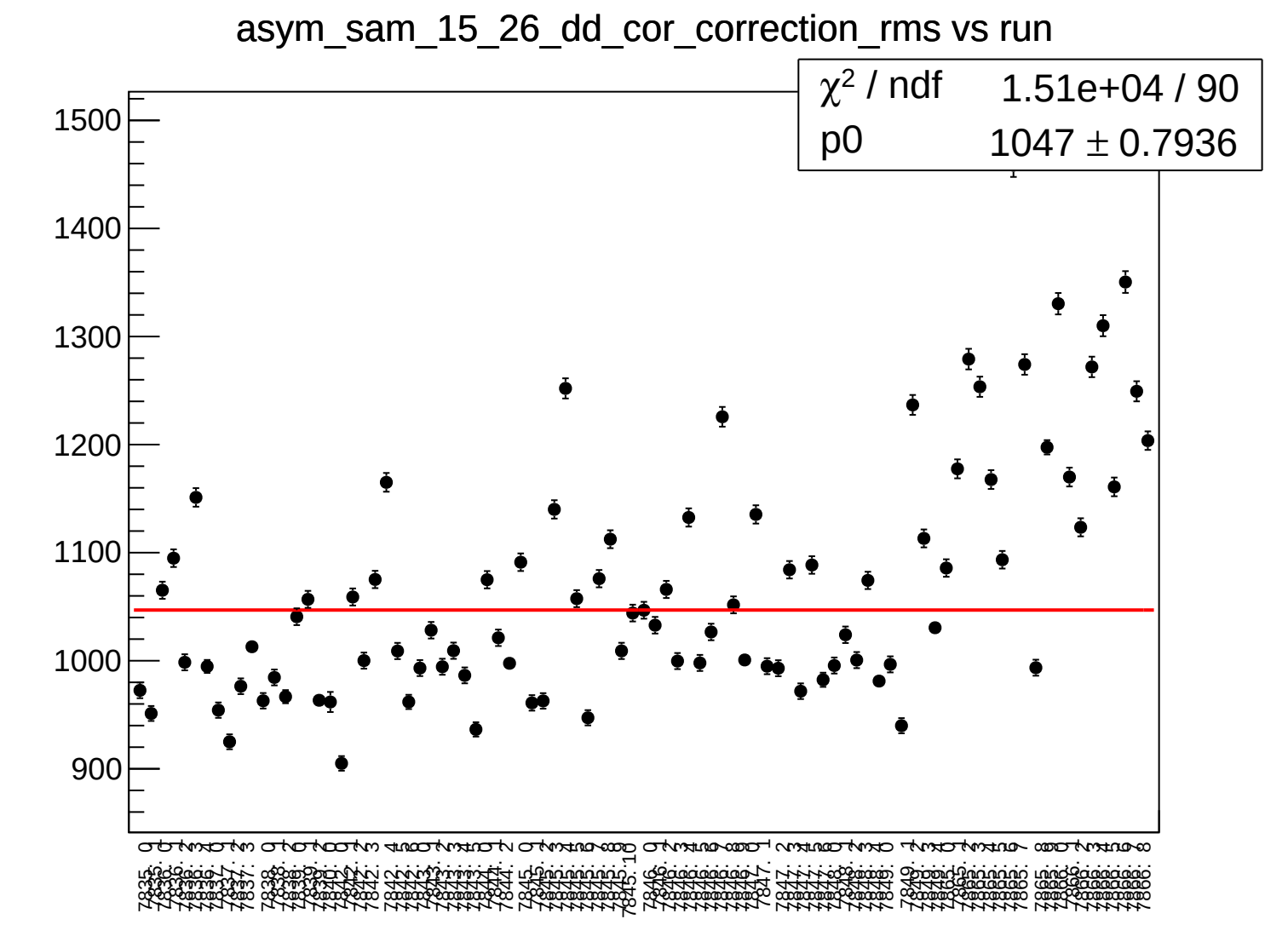

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.59 / 90
p0 −39.08 ± 115
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 88.52
Std Dev 24.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

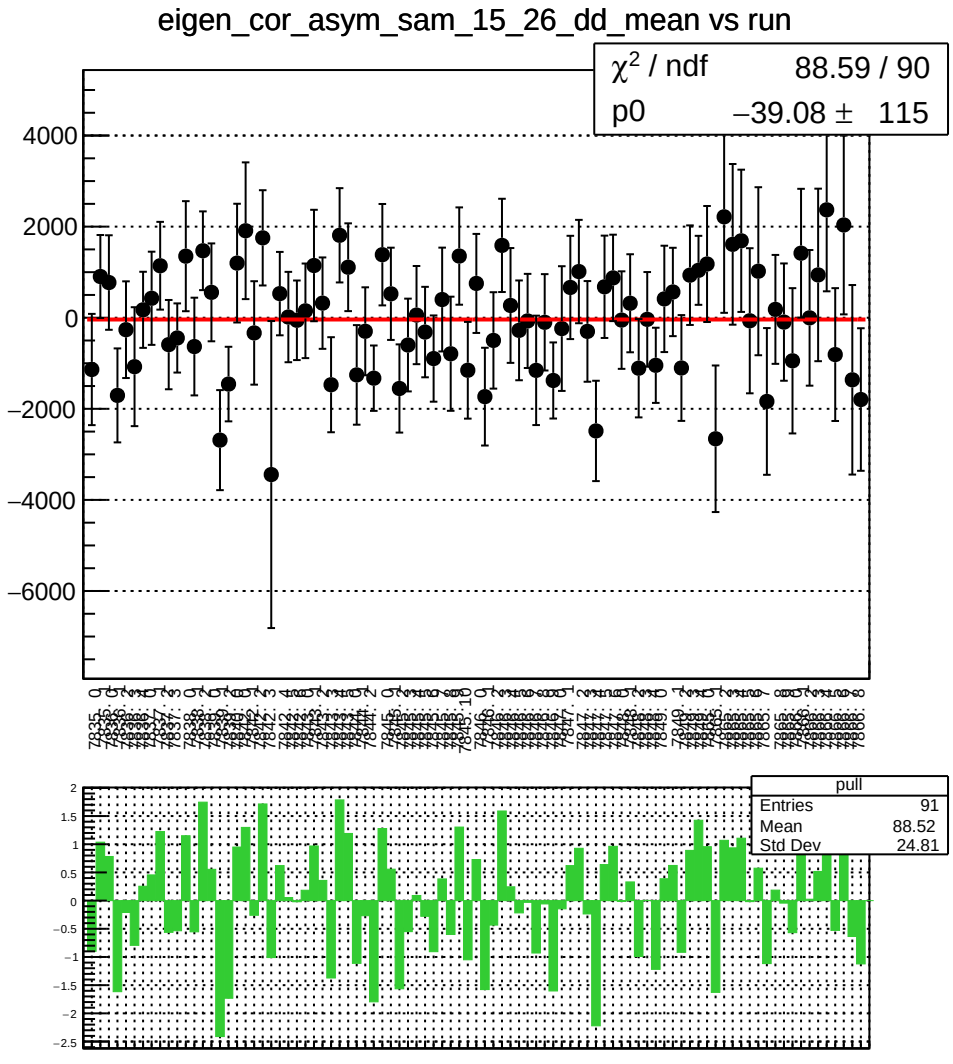

pull1D
Entries 91
Mean 0.01946
Std Dev 0.9865
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

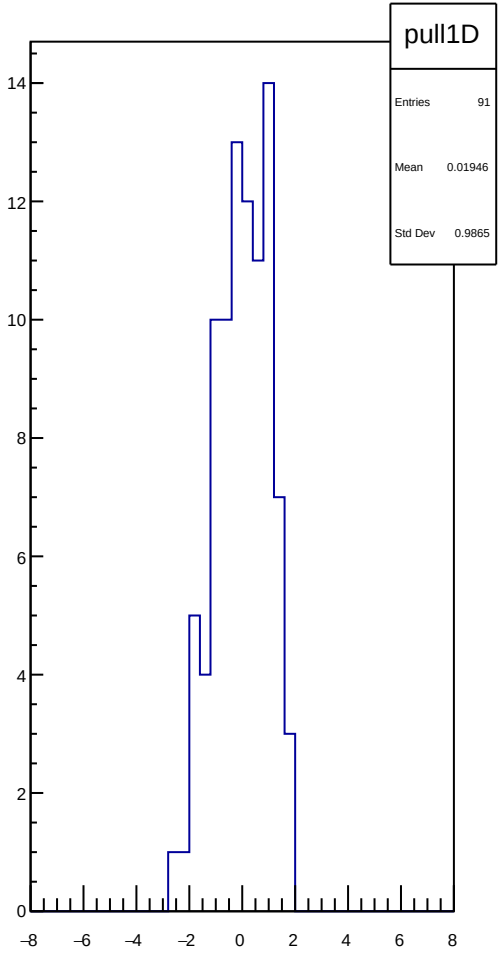

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 6.068e+04 / 90
p0 105.9 ± 0.08134
300
250
200
150
100

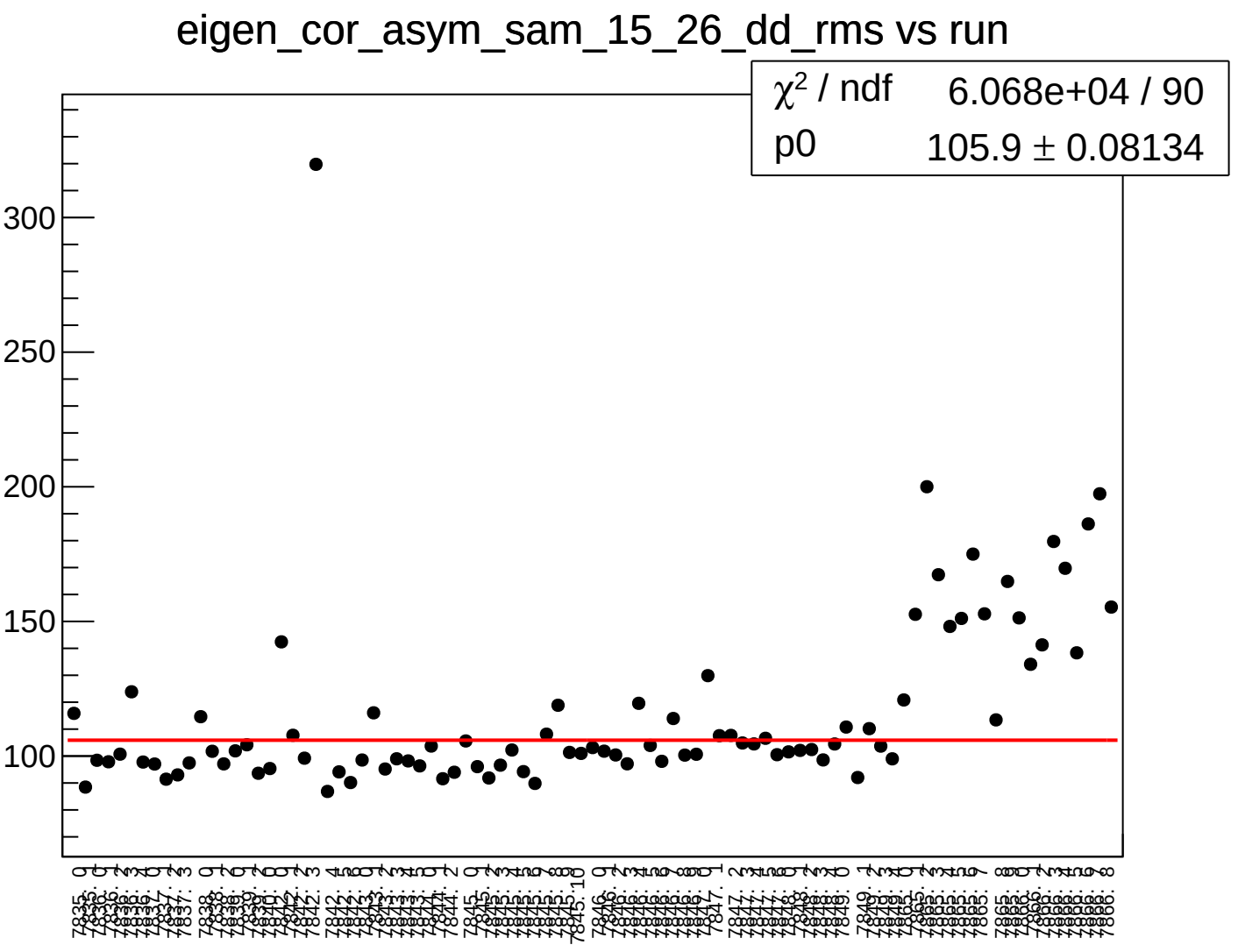

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 82.08 / 90
p0 −227.1± 1122
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 36.41
Std Dev 0
2
1
0
−1
−2

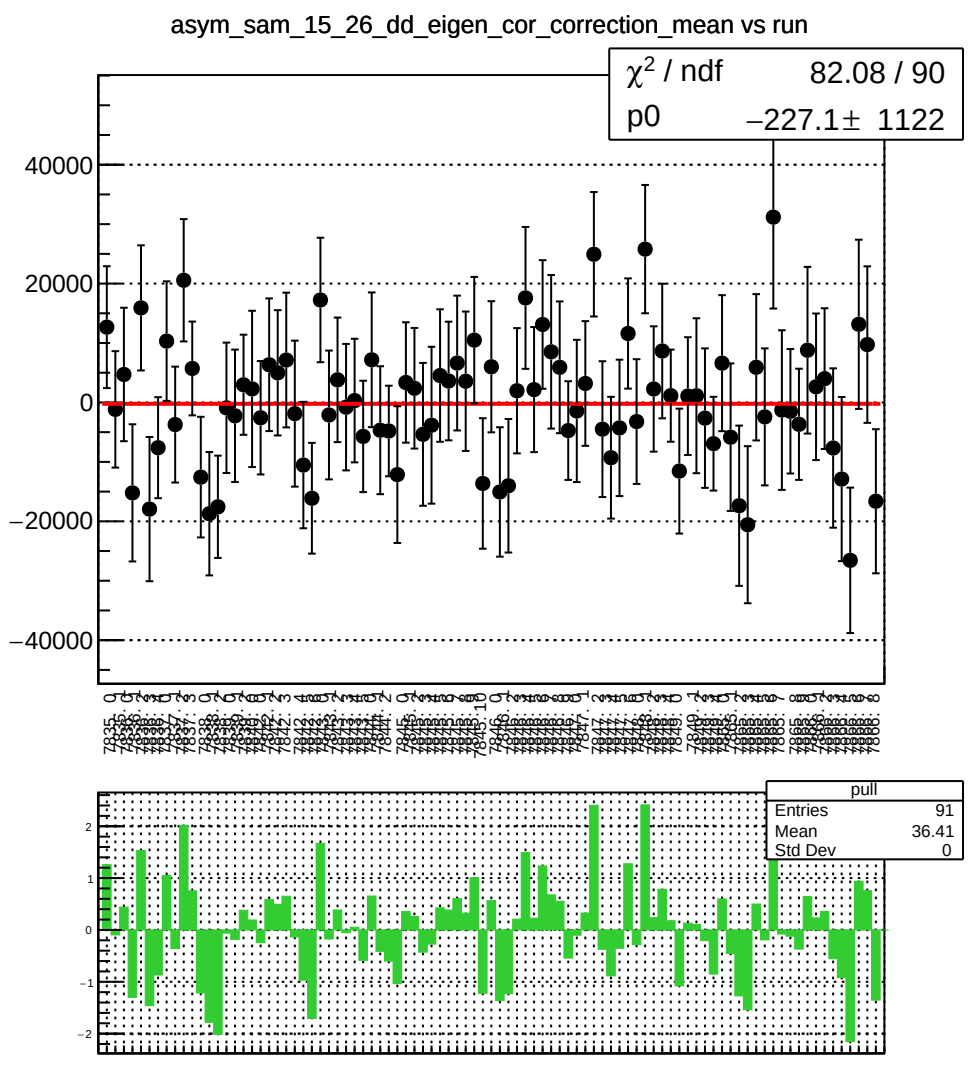

pull1D
Entries 91
Mean 0.01004
Std Dev 0.9497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

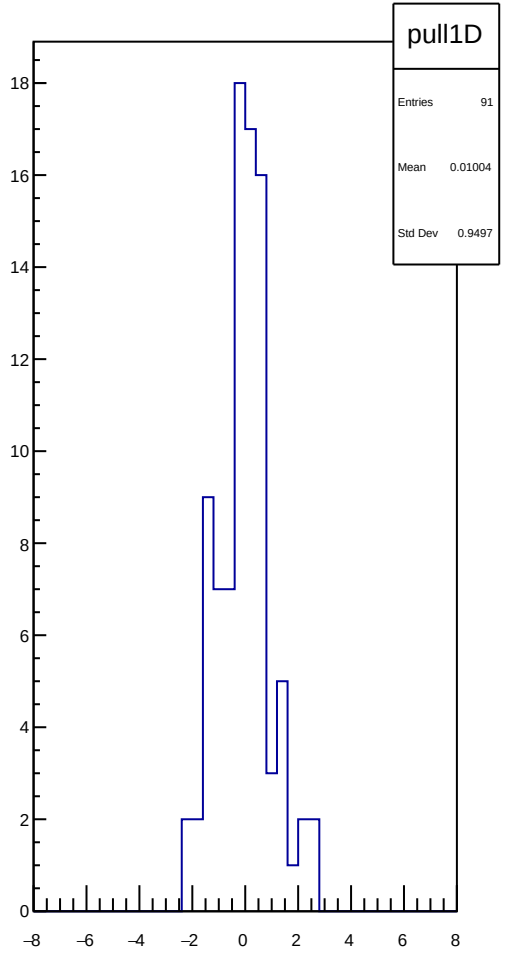

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.51e+04 / 90
p0 1047 ± 0.7936
1500
1400
1300
1200
1100
1000
900

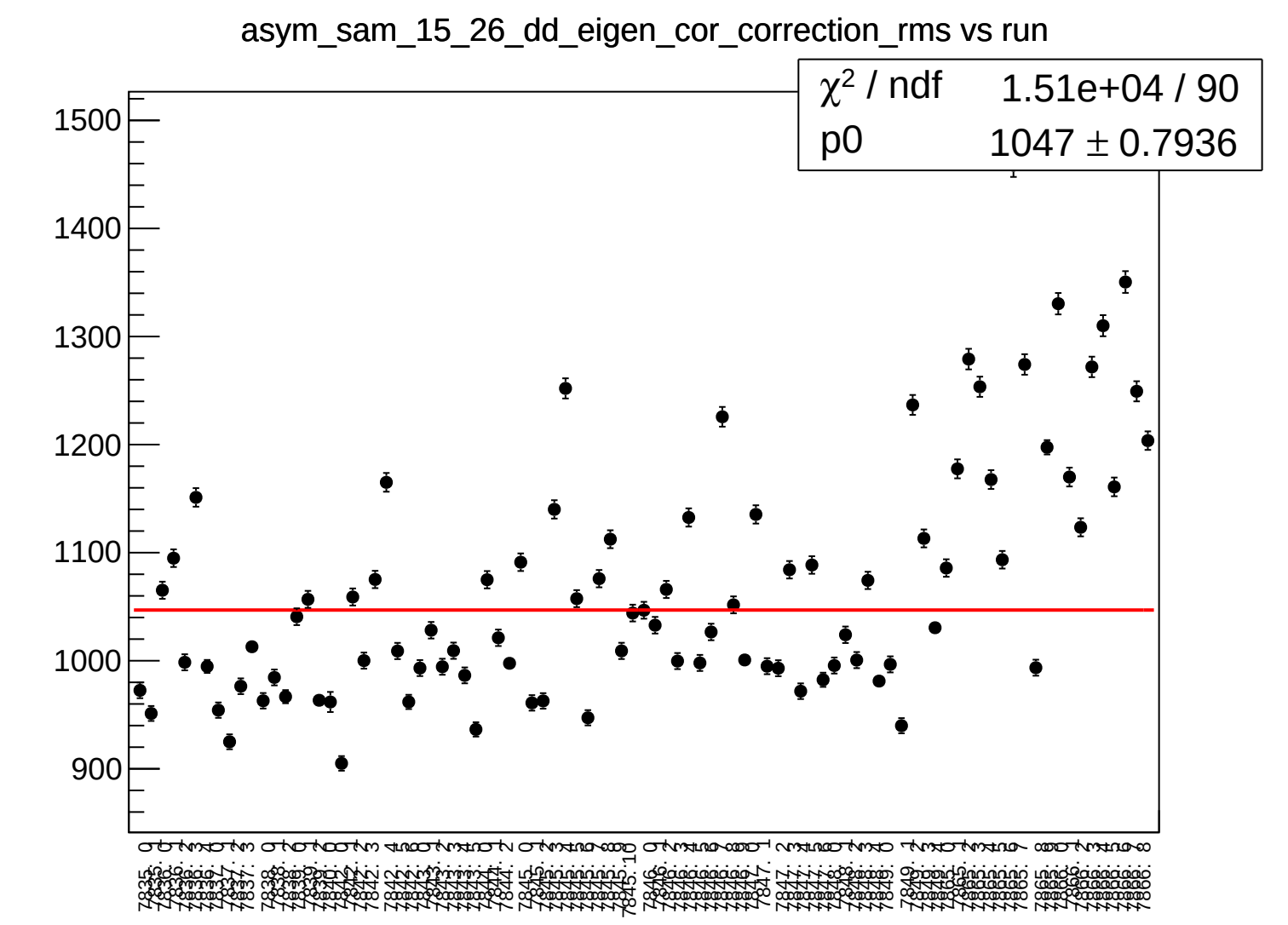

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 88.59 / 90
p0 −39.08 ± 115
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 88.52
Std Dev 24.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

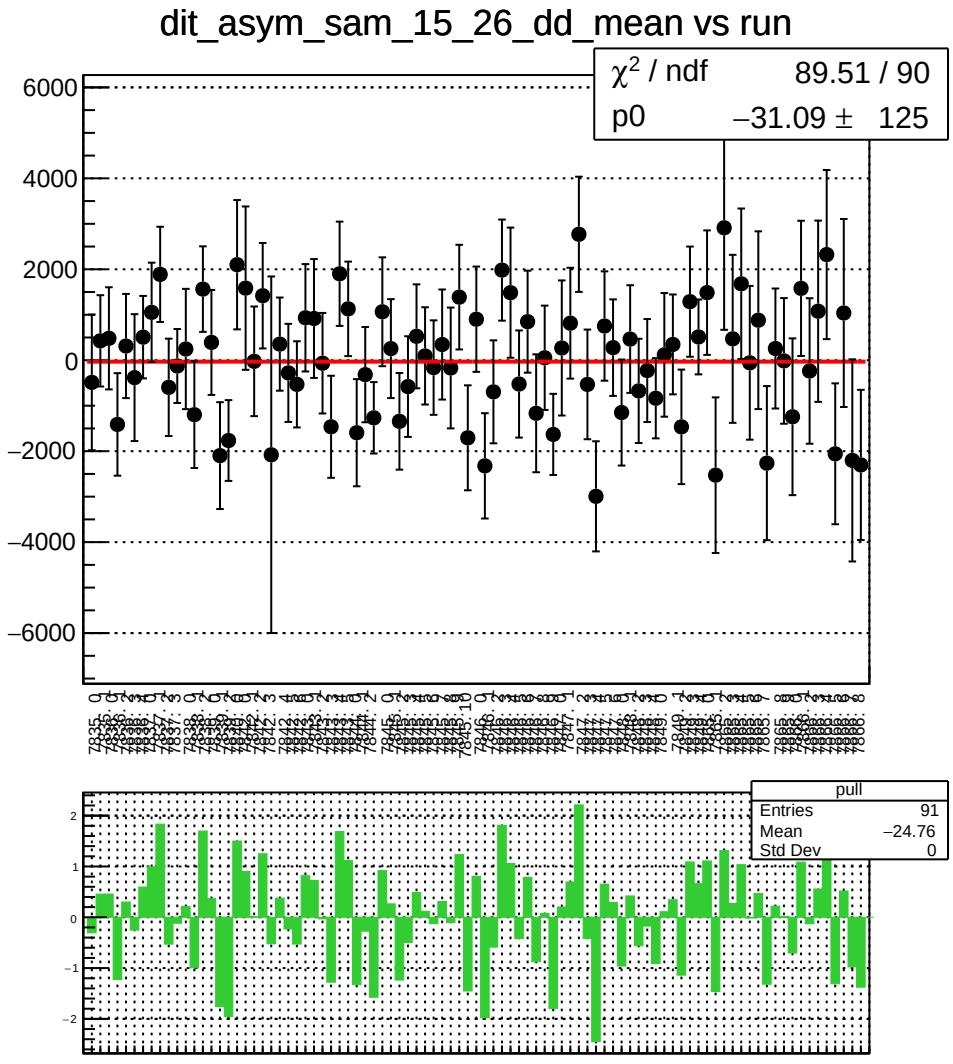

pull1D
Entries 91
Mean 0.01946
Std Dev 0.9865
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

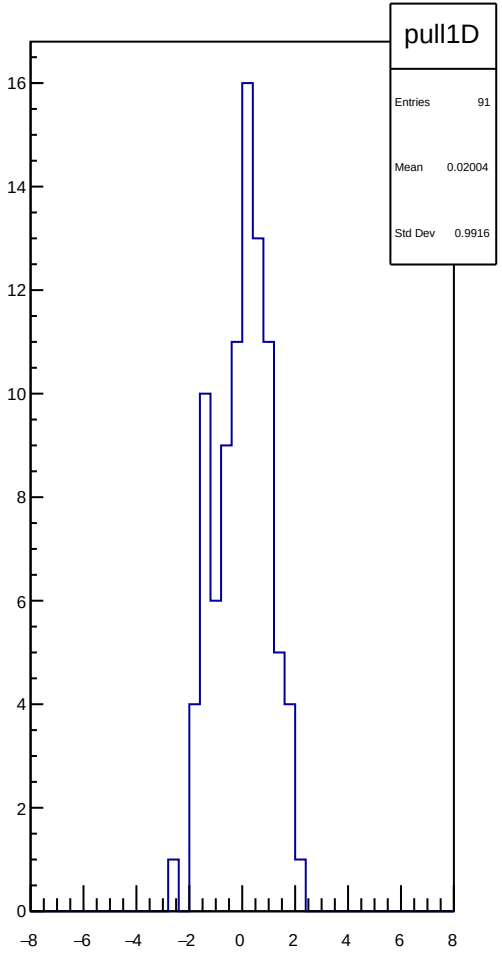

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 6.068e+04 / 90
p0 105.9 ± 0.08134
300
250
200
150
100

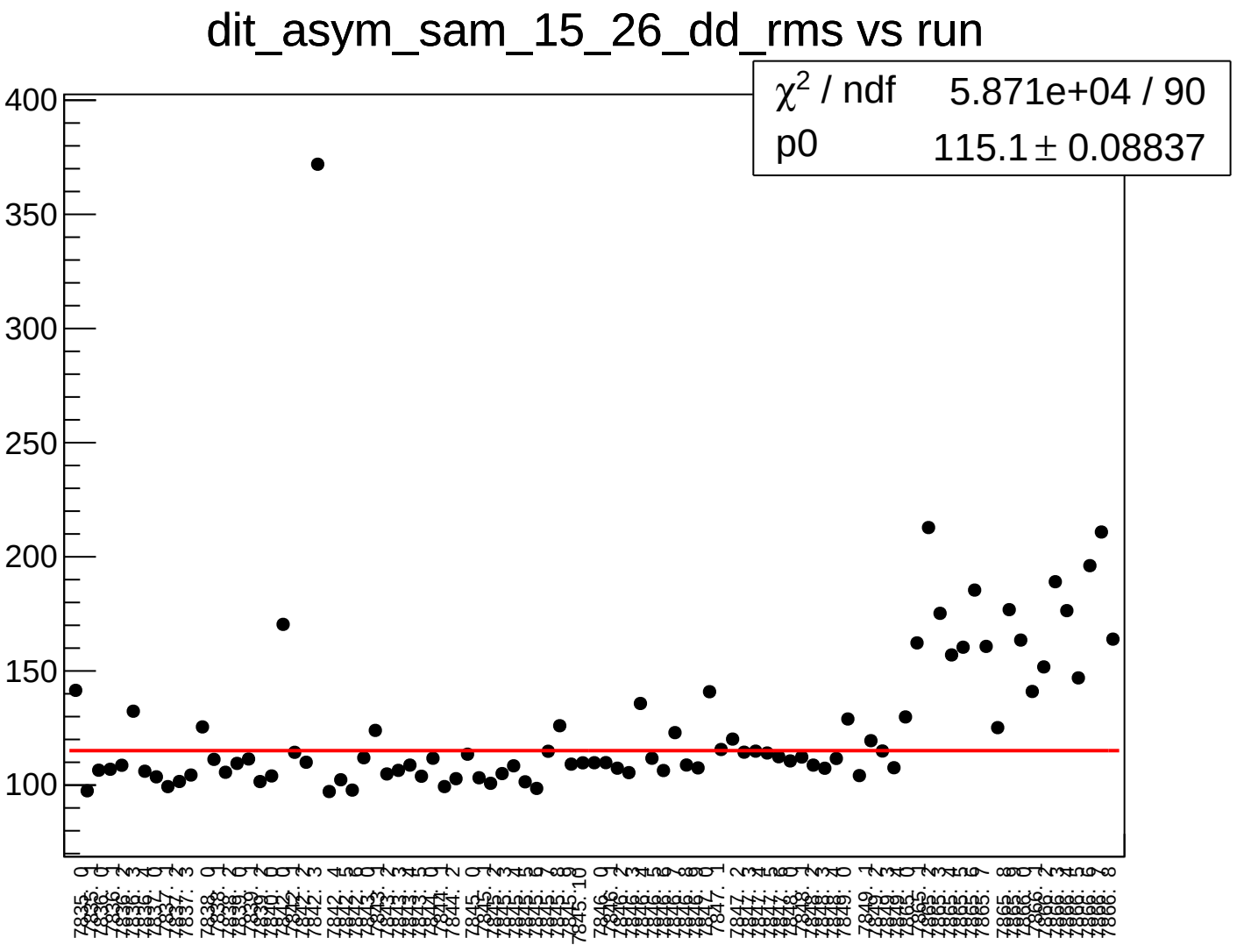

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.08 / 90
p0 −227.1± 1122
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 36.41
Std Dev 0
2
1
0
−1
−2

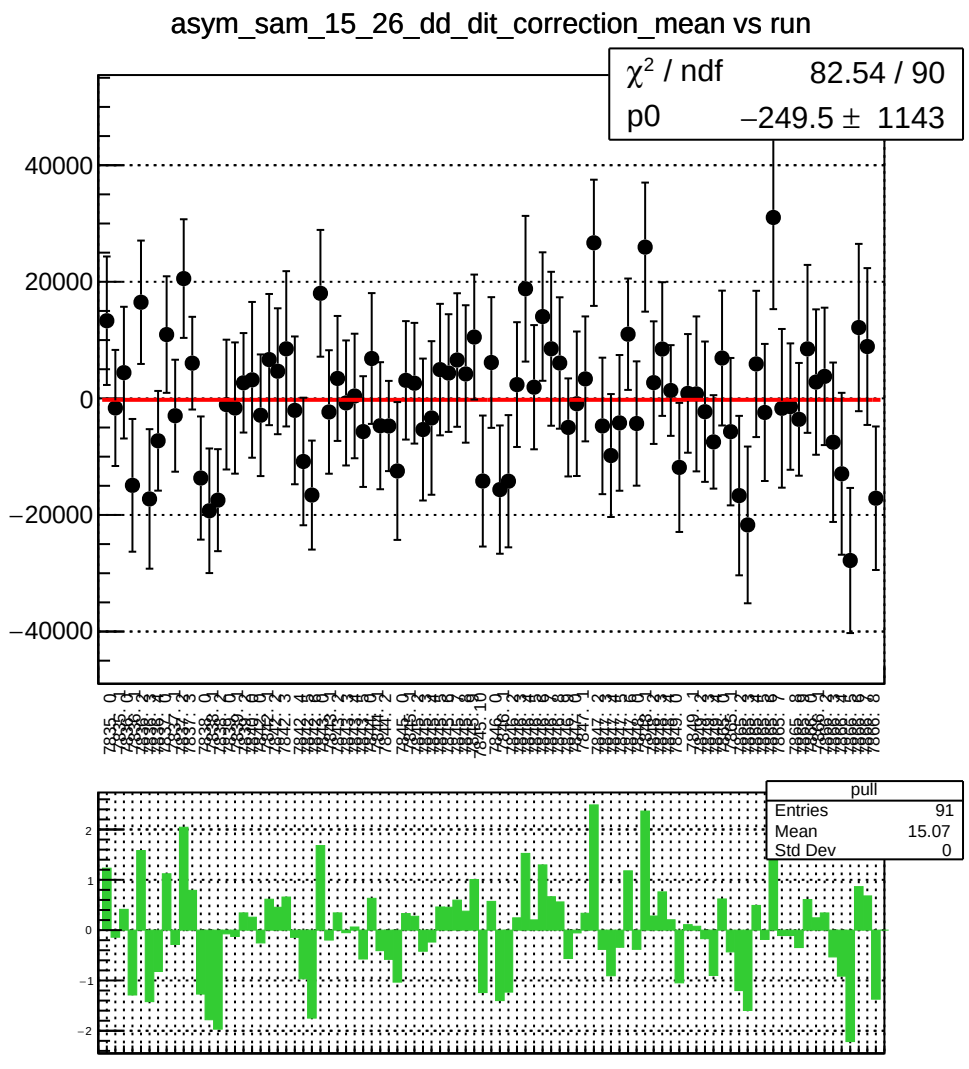

pull1D
Entries 91
Mean 0.01004
Std Dev 0.9497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

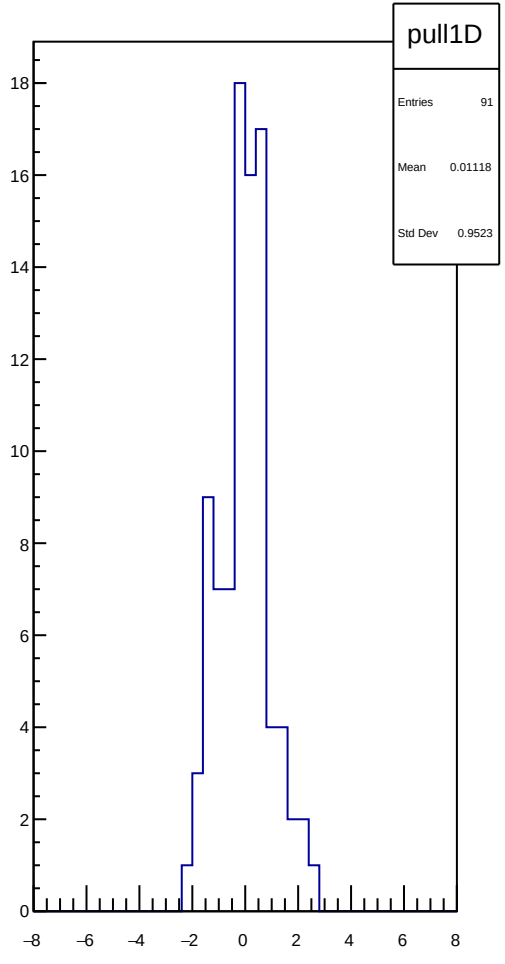

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.51e+04 / 90
p0 1047 ± 0.7936
1500
1400
1300
1200
1100
1000
900

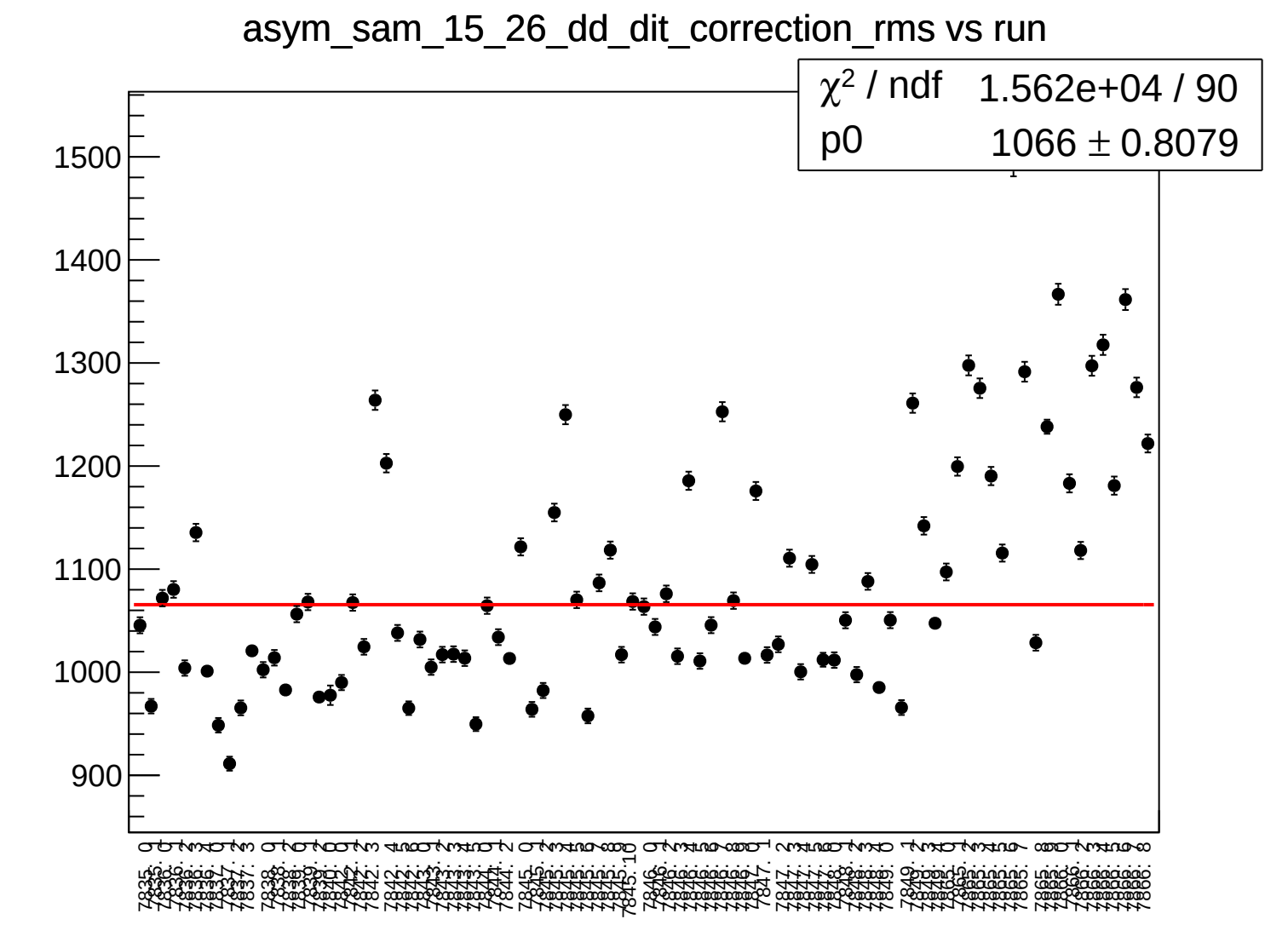

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.51 / 90
p0 −31.09 ± 125
pull
Entries 91
Mean −24.76
Std Dev 0

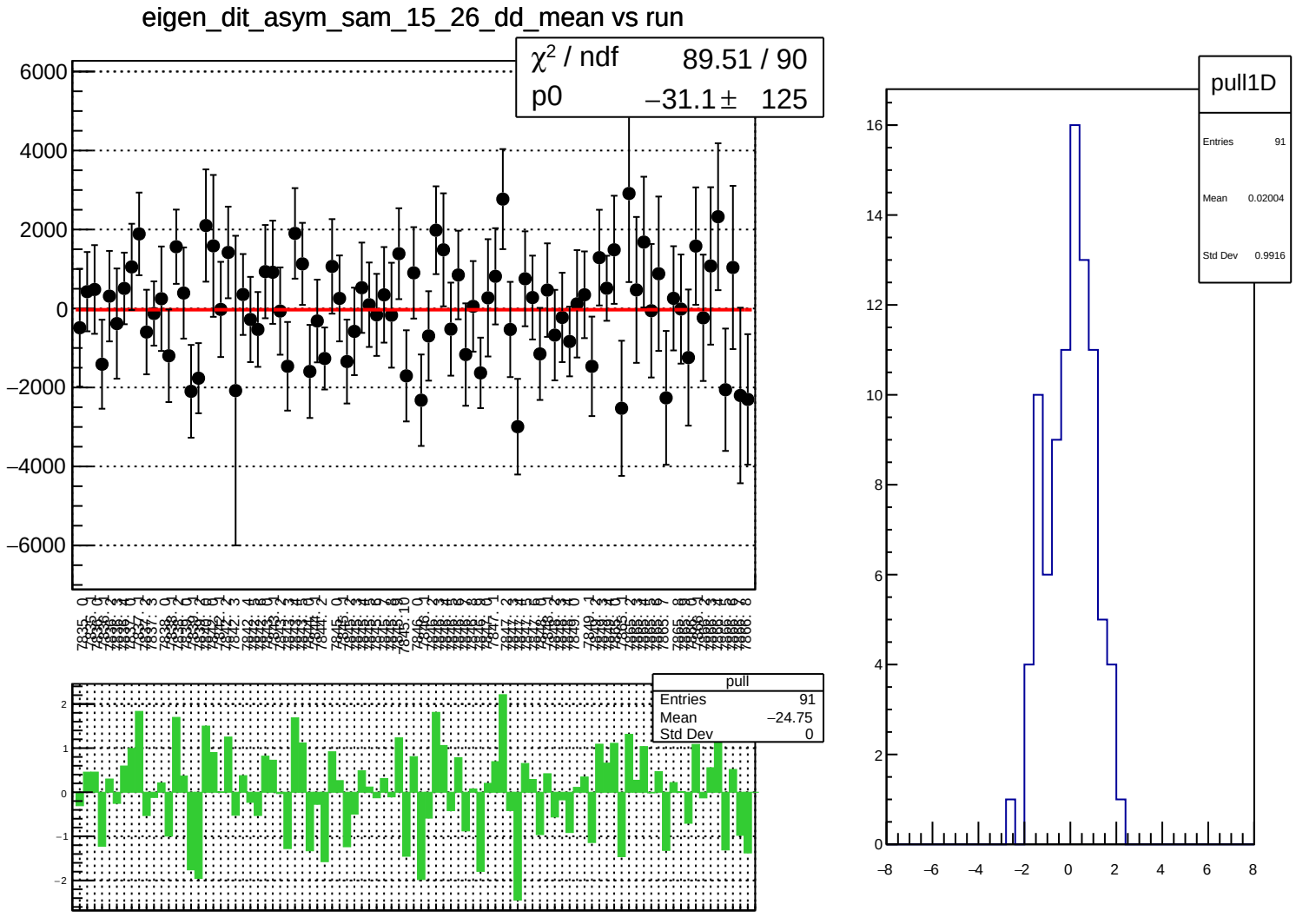

pull1D
Entries 91
Mean 0.02004
Std Dev 0.9916

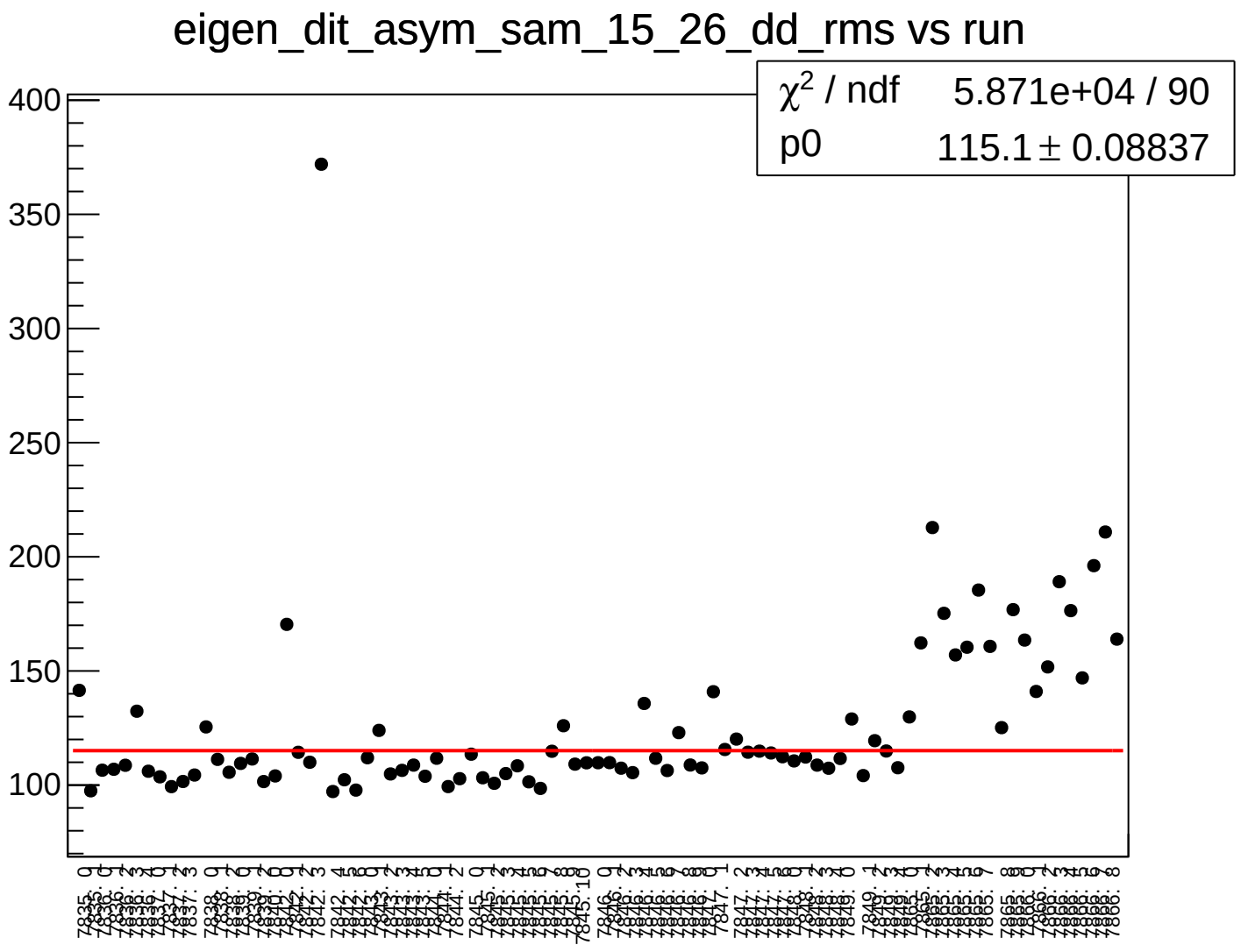

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 5.871e+04 / 90
p0 115.1 ± 0.08837
400
350
300
250
200
150
100

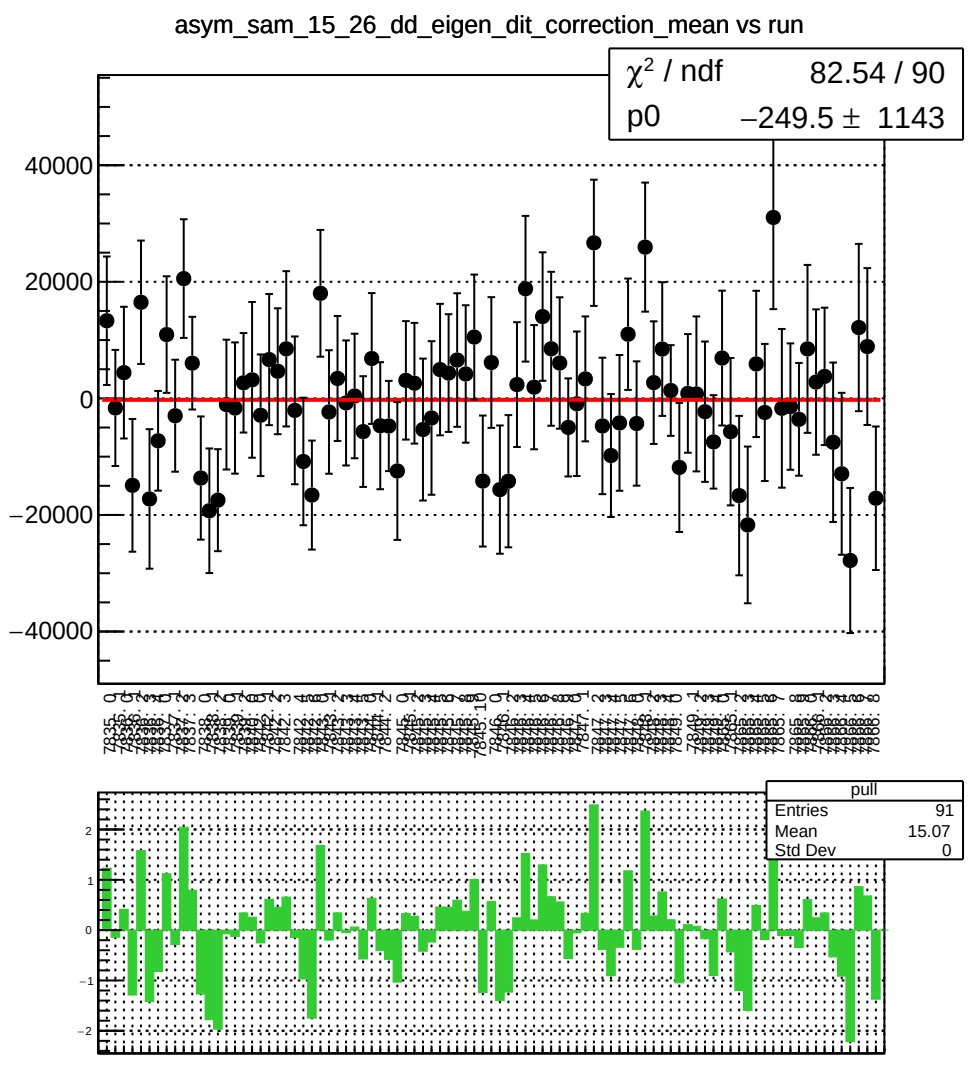

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 82.54 / 90
p0 −249.5 ± 1143
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 15.07
Std Dev 0
2
1
0
−1
−2

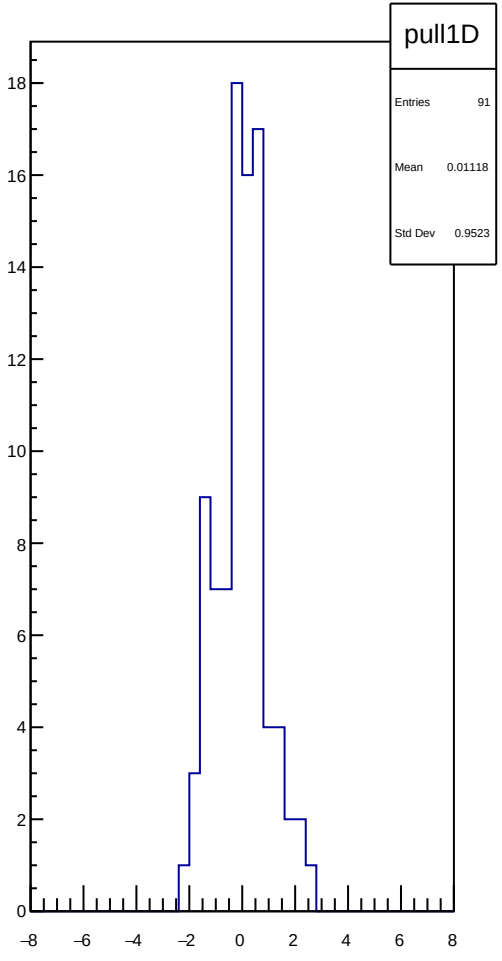

pull1D
Entries 91
Mean 0.01118
Std Dev 0.9523
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

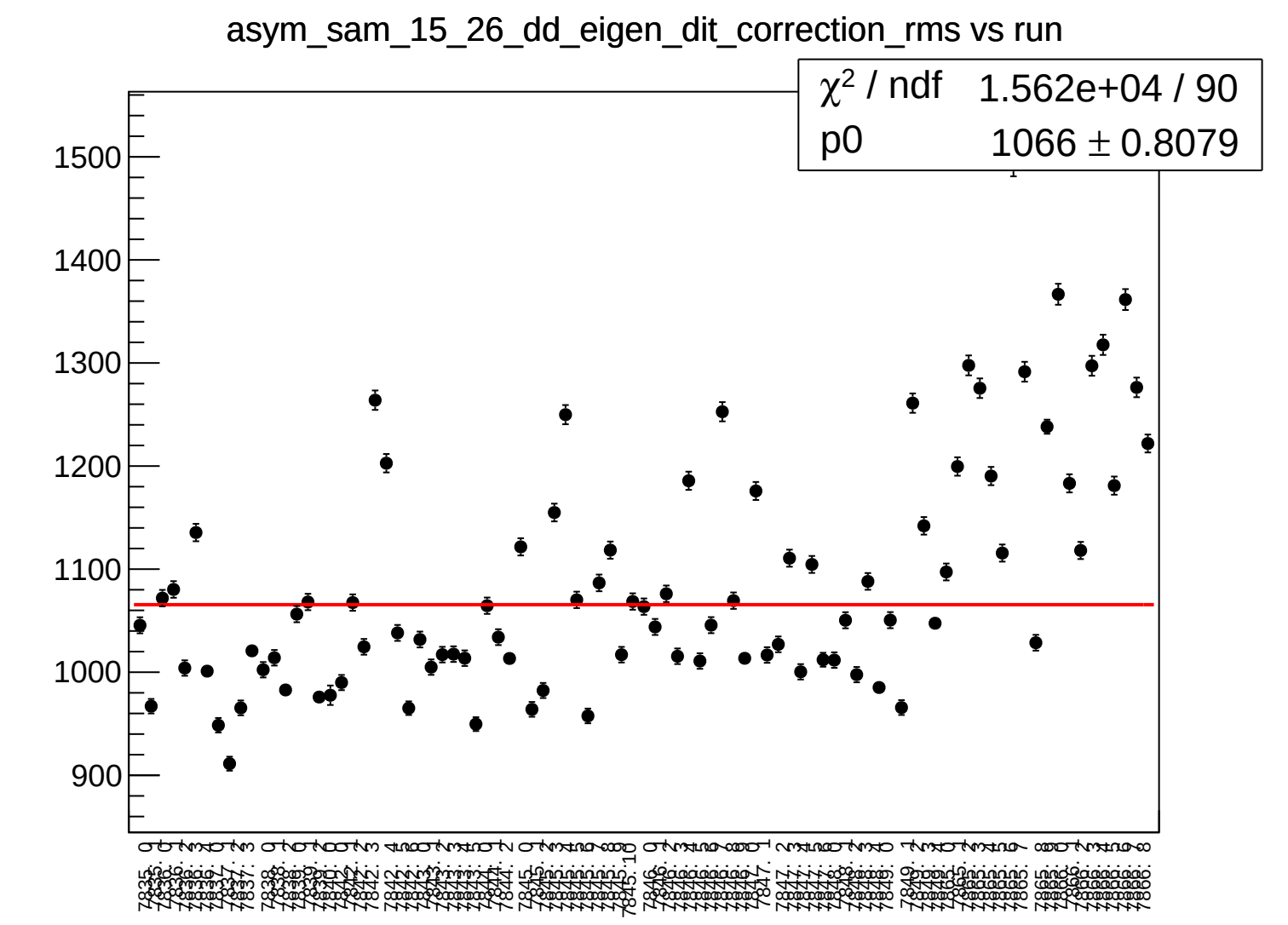

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.562e+04 / 90
p0 1066 ± 0.8079
1500
1400
1300
1200
1100
1000
900

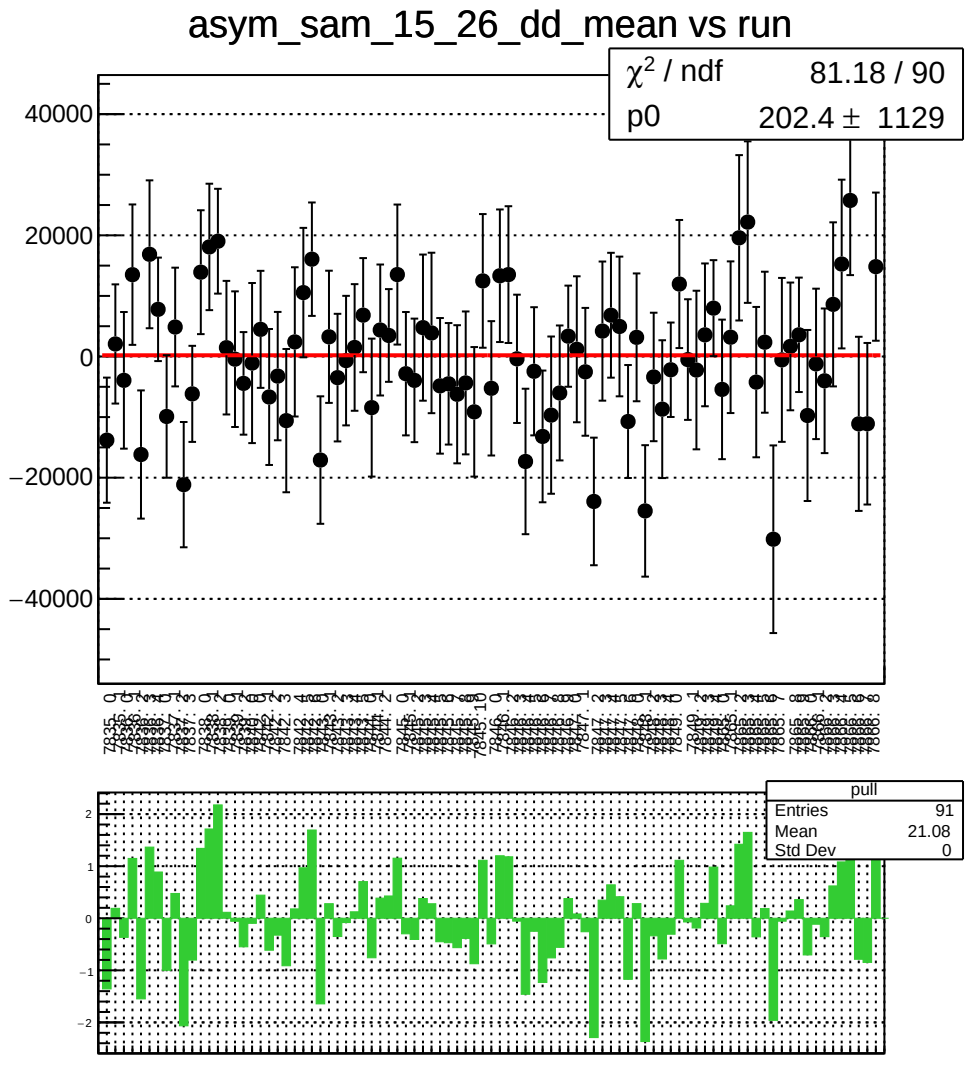

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.51 / 90
p0 −31.1 ± 125
pull
Entries 91
Mean −24.75
Std Dev 0
pull1D
Entries 91
Mean 0.02004
Std Dev 0.9916

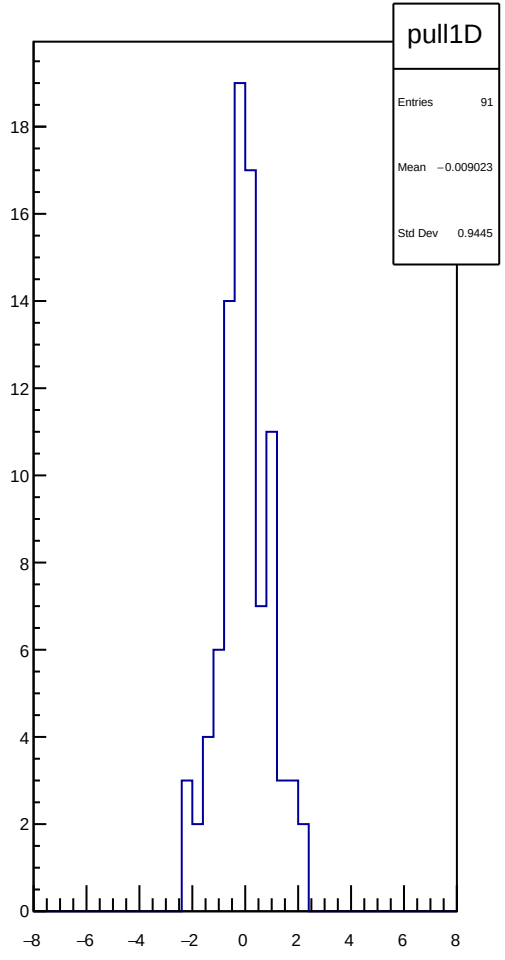

eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 5.871e+04 / 90
p0 115.1 ± 0.08837
400
350
300
250
200
150
100

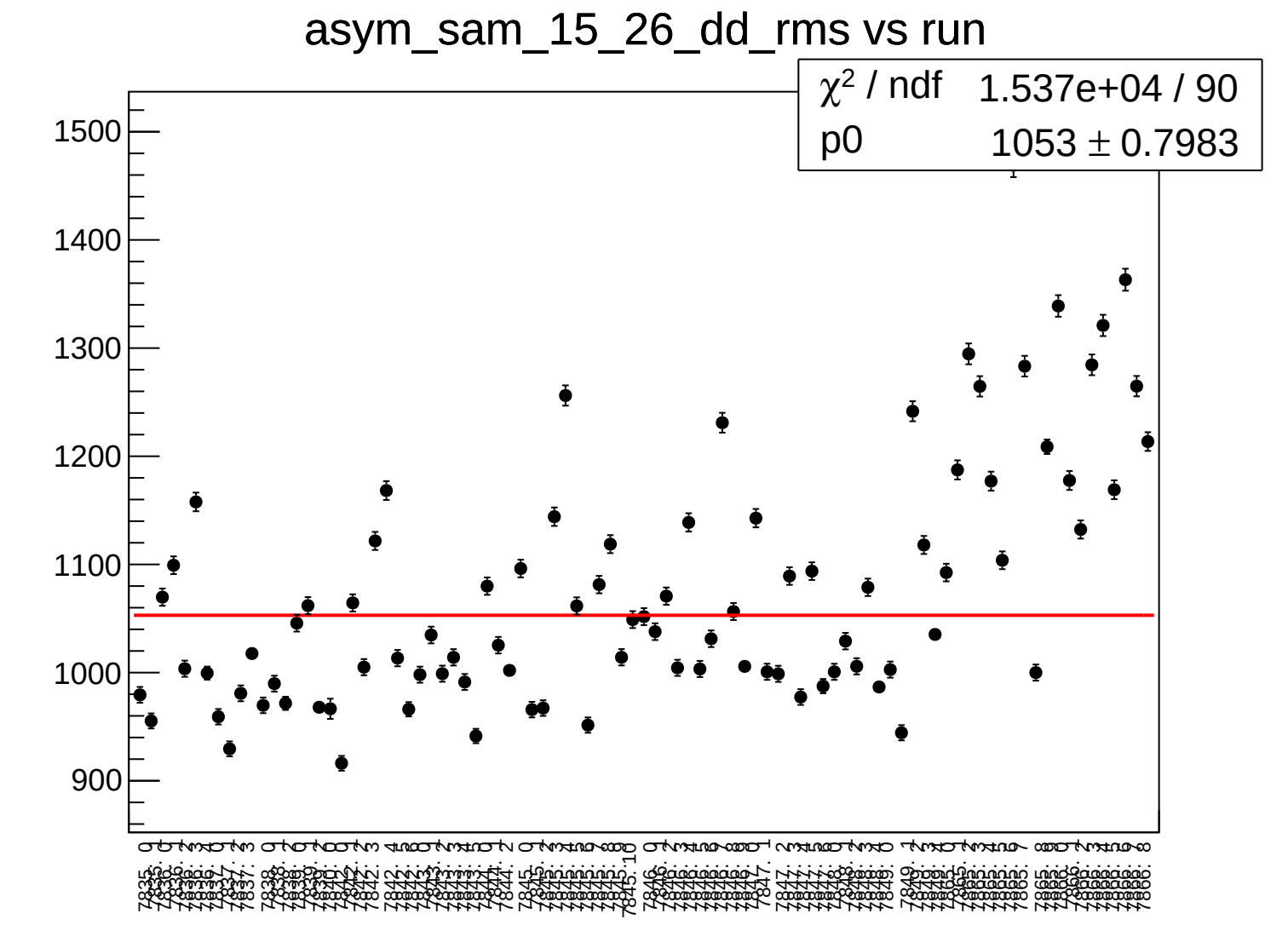

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.54 / 90
p0 −249.5 ± 1143
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 15.07
Std Dev 0
2
1
0
−1
−2

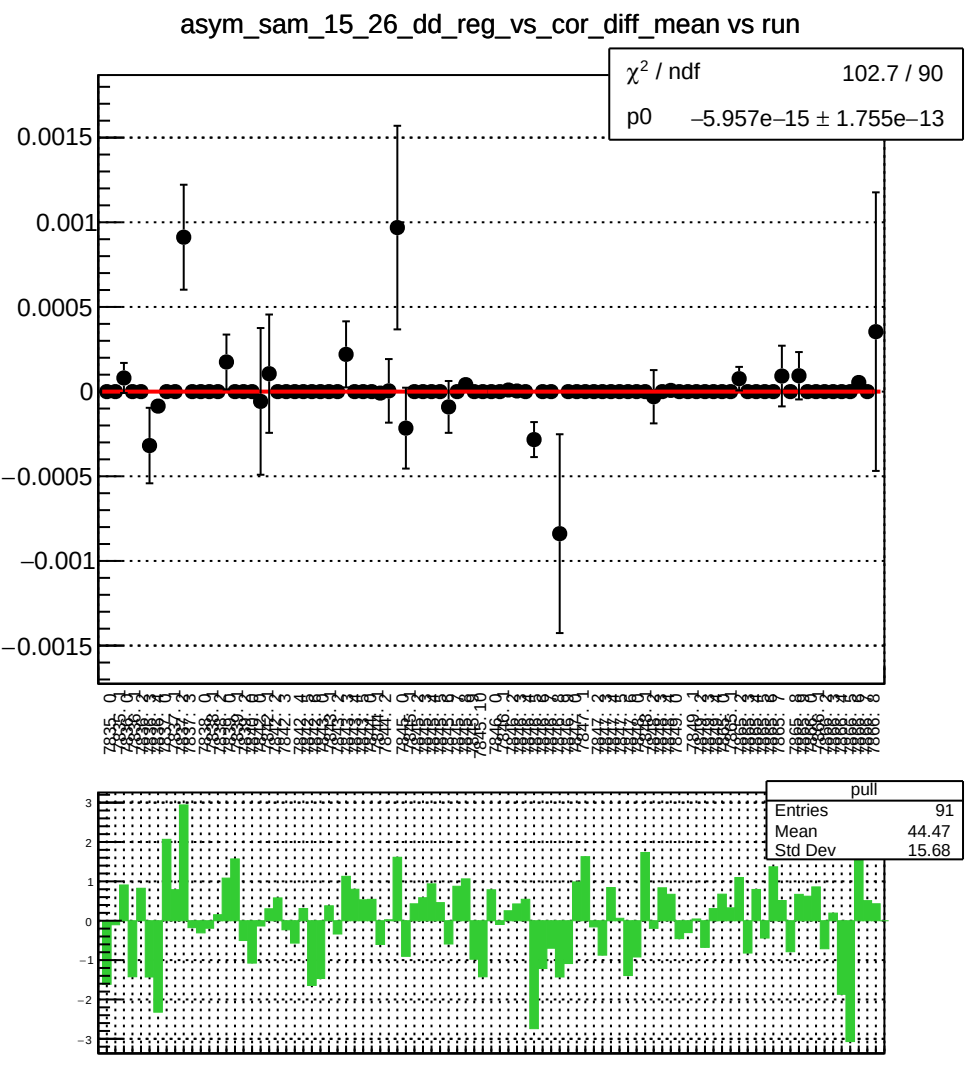

pull1D
Entries 91
Mean 0.01118
Std Dev 0.9523
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

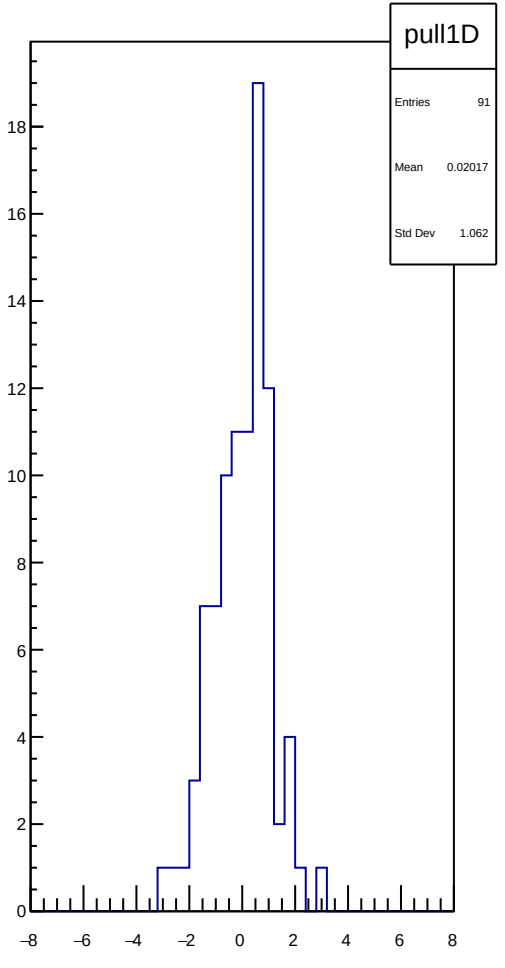

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.562e+04 / 90
p0 1066 ± 0.8079
1500
1400
1300
1200
1100
1000
900


asym_sam_15_26_dd_mean vs run
χ² / ndf 81.18 / 90
p0 202.4 ± 1129
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 21.08
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.009023
Std Dev 0.9445
18
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 1.537e+04 / 90
p0 1053 ± 0.7983
1500
1400
1300
1200
1100
1000
900


asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 90
p0 −5.957e−15 ± 1.755e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 44.47
Std Dev 15.68
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.02017
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
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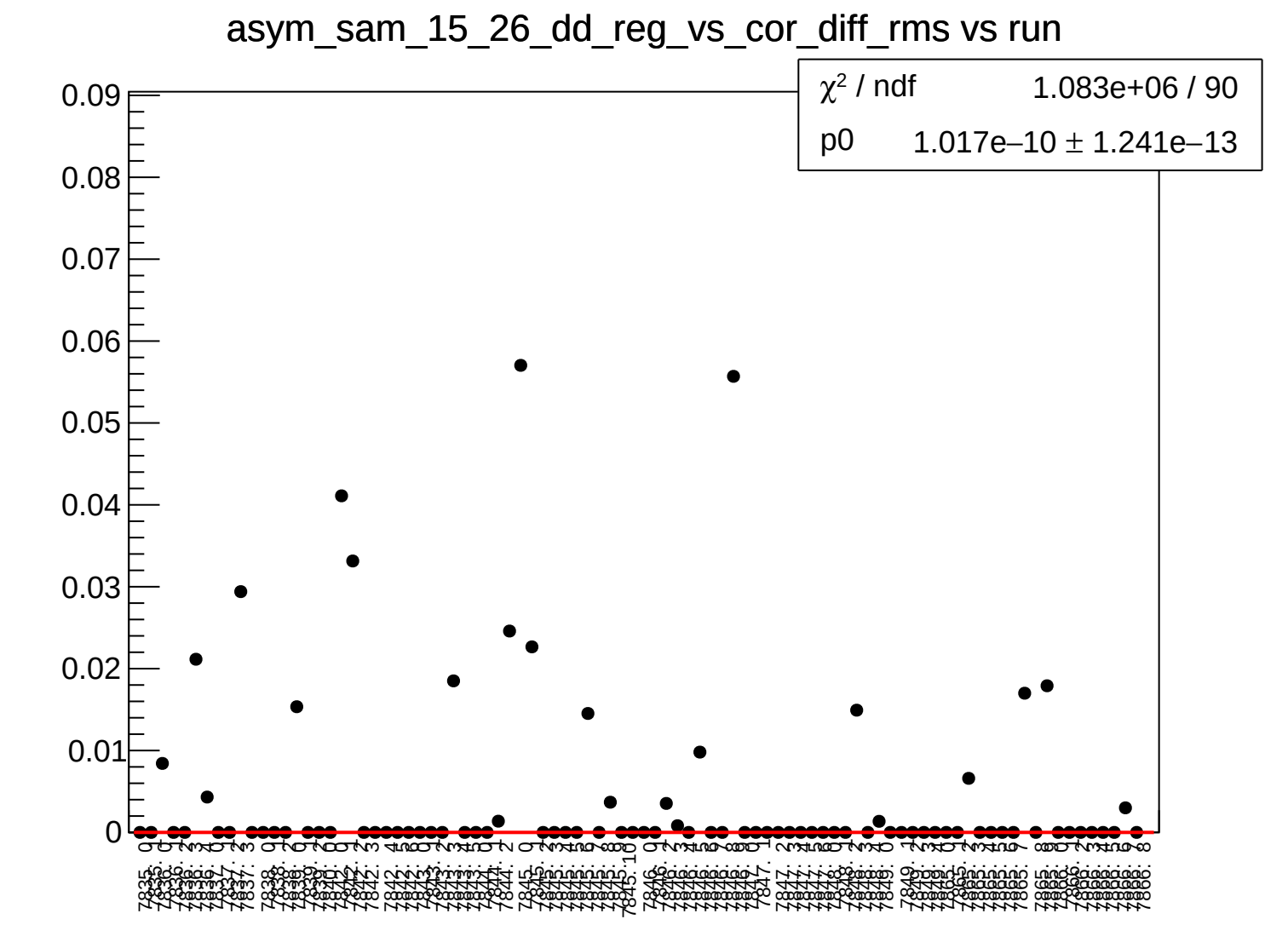
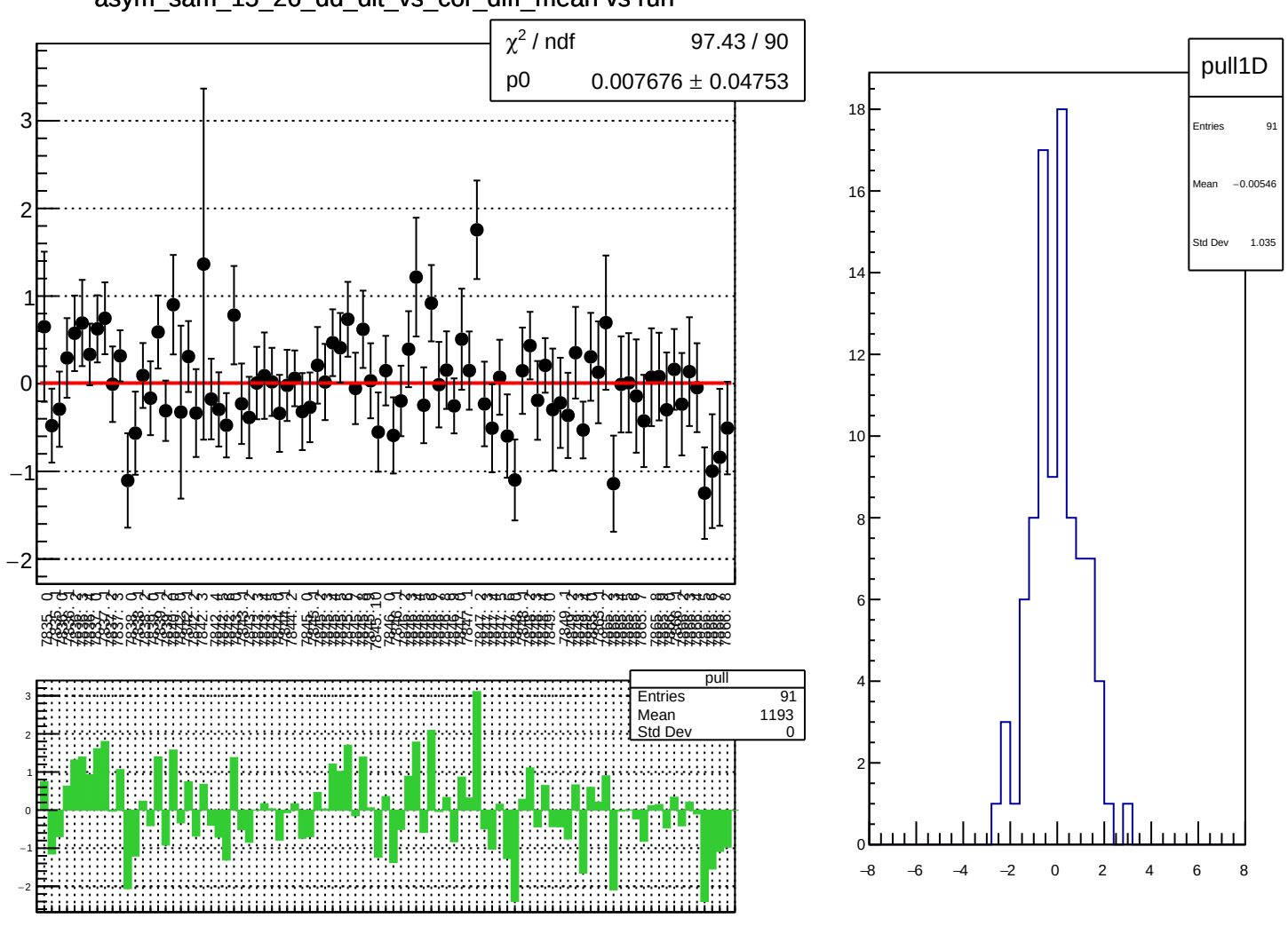
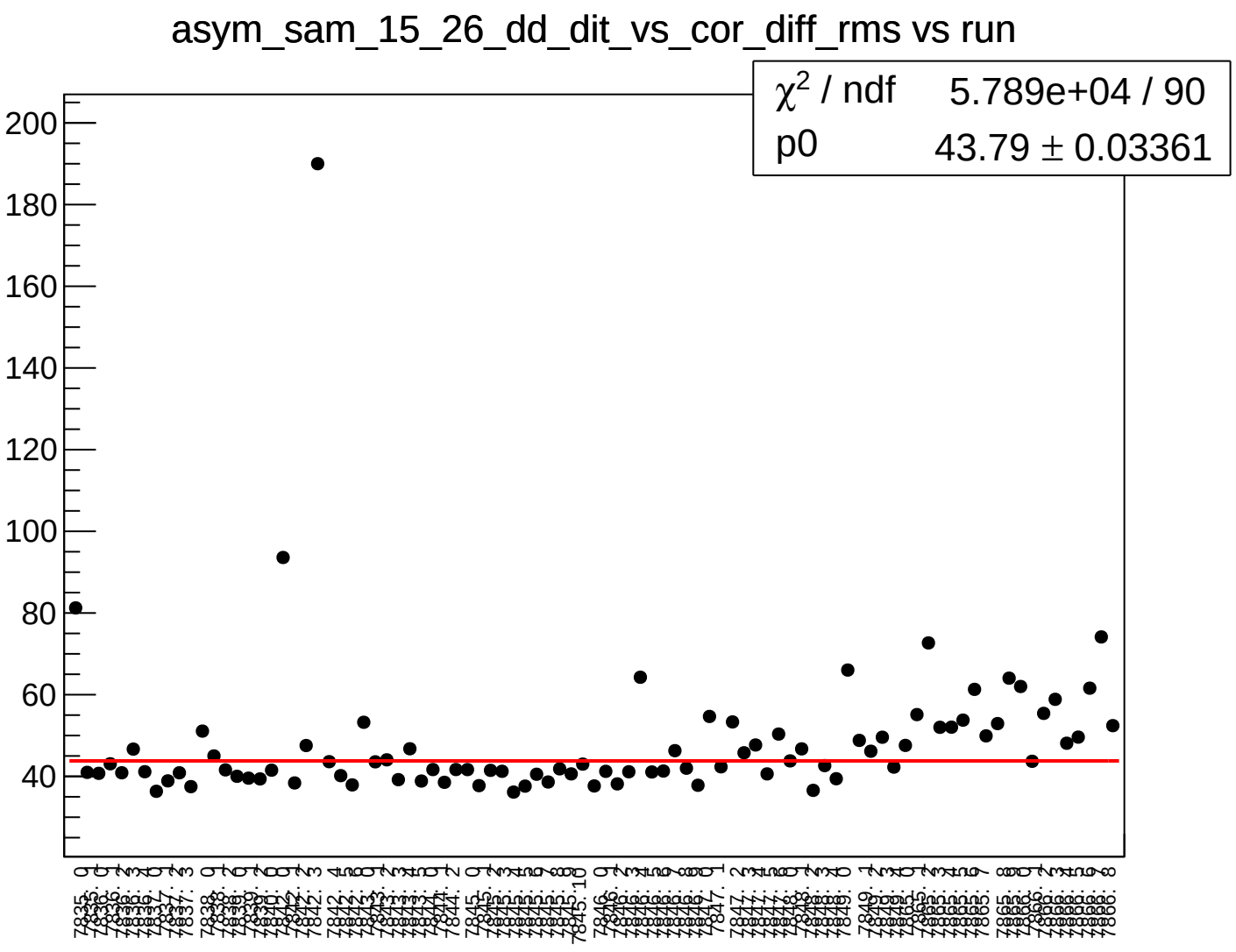
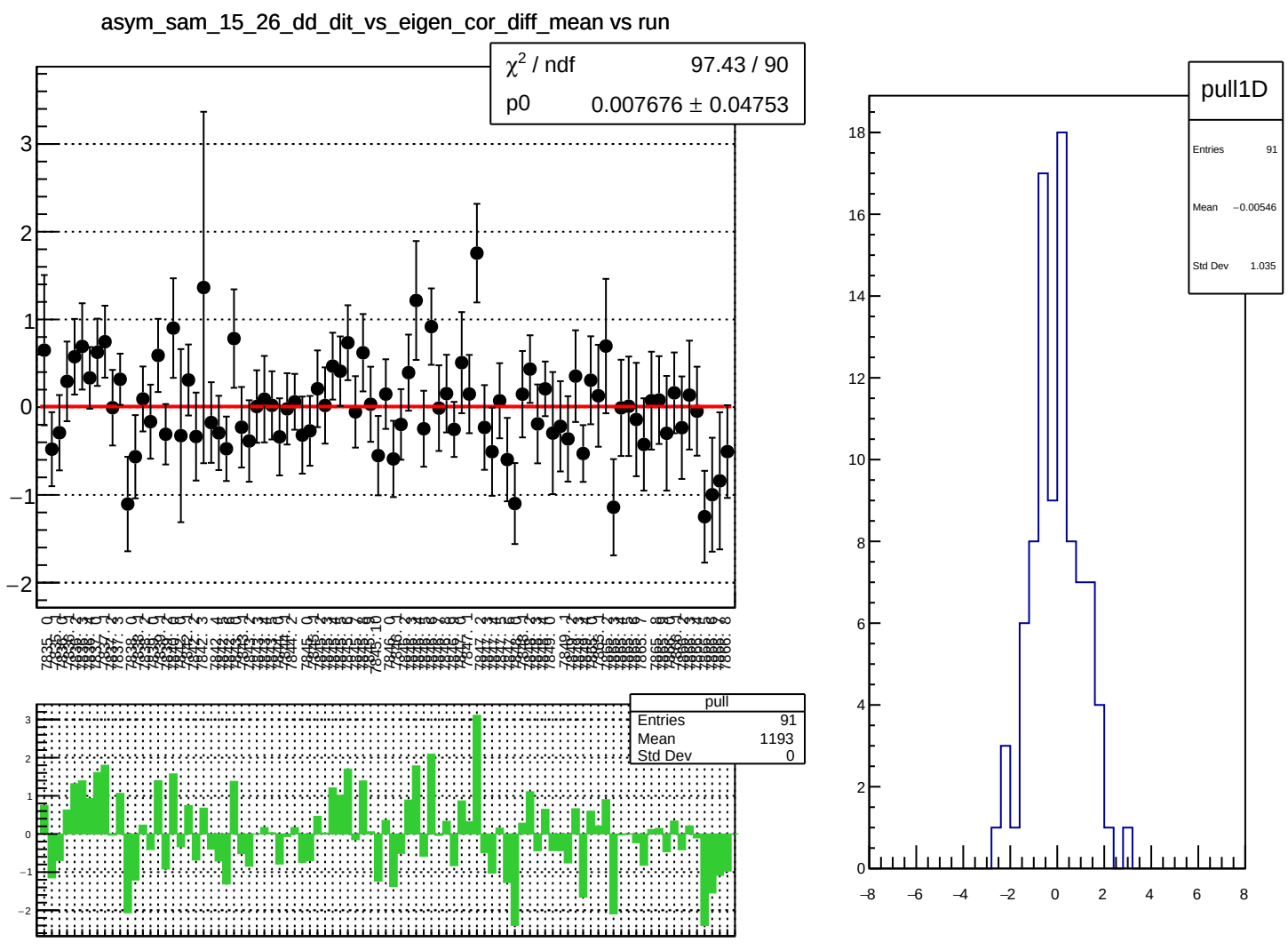
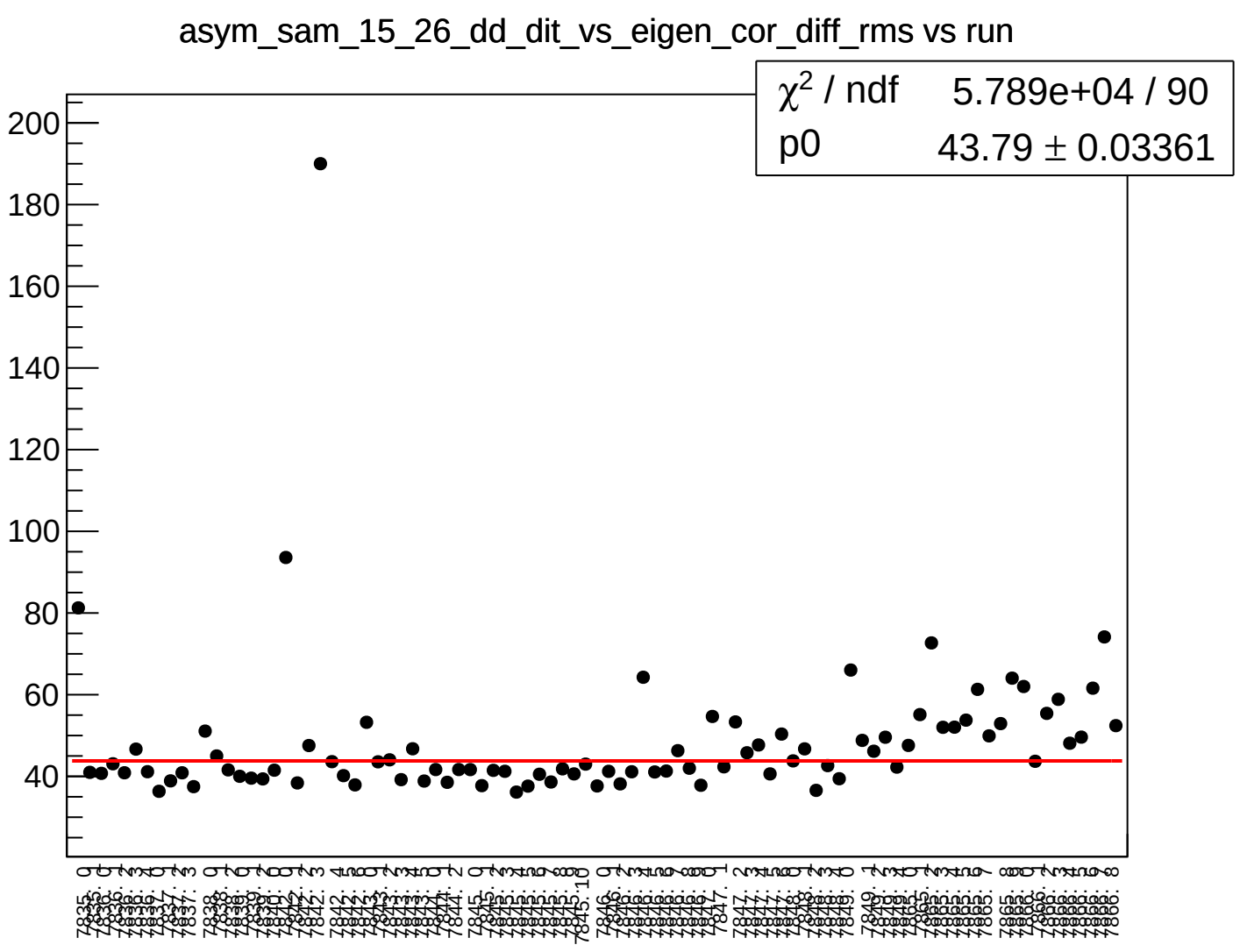
0
2
4
6
8

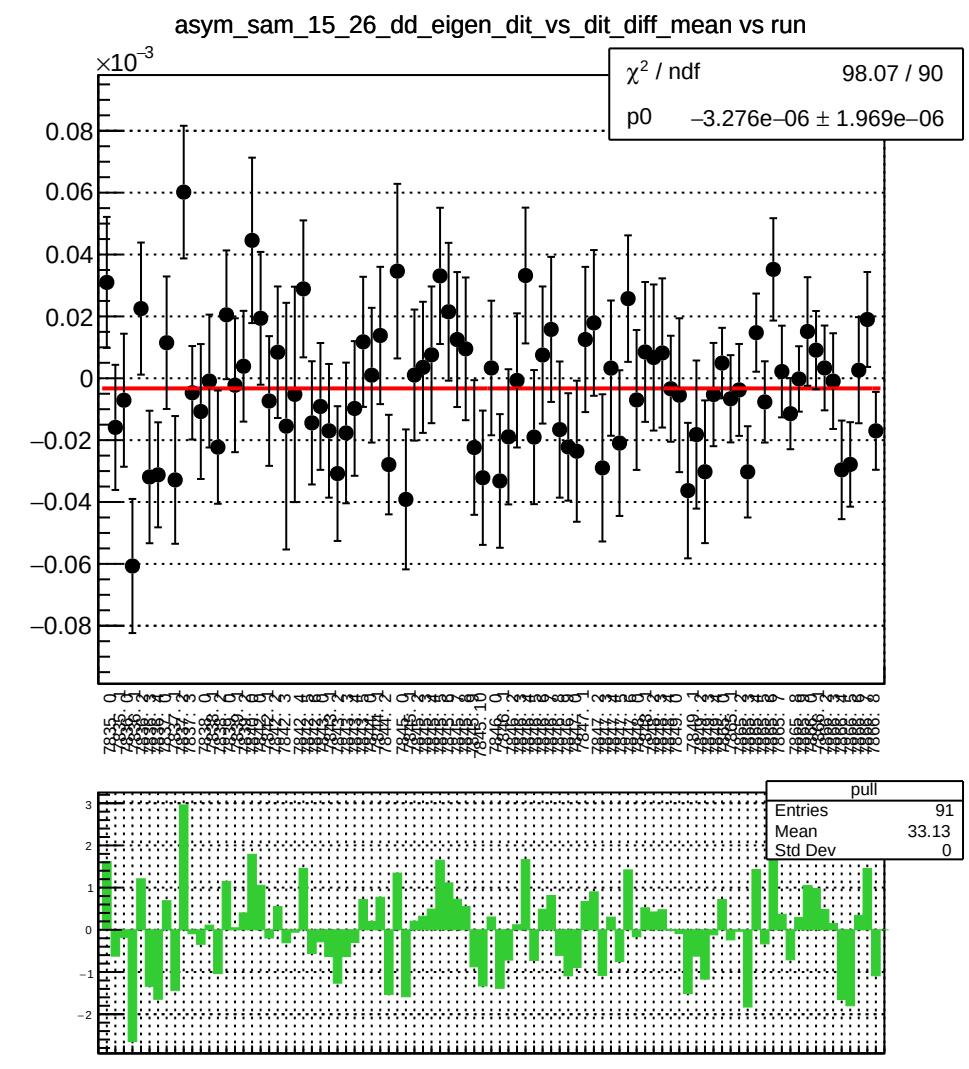

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 90
p0 1.017e−10 ± 1.241e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

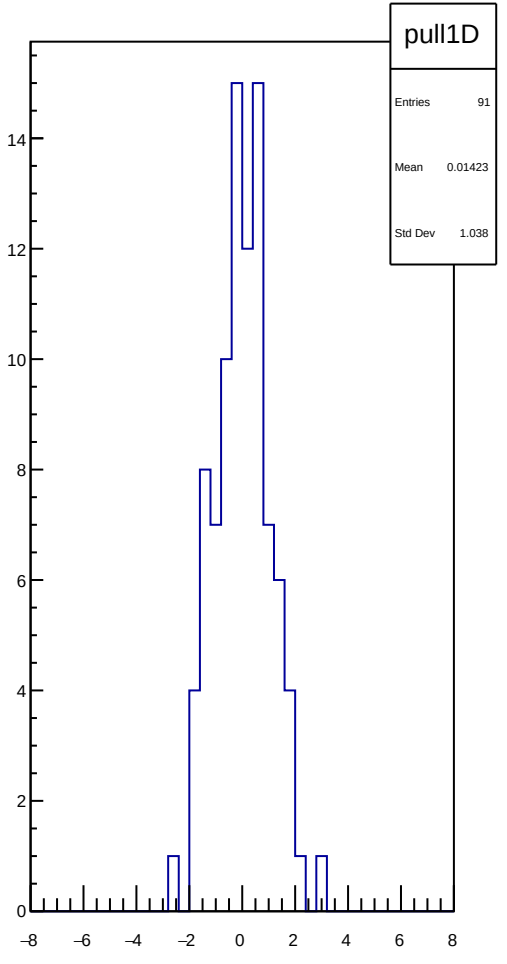

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.43 / 90
p0 0.007676 ± 0.04753
pull
Entries 91
Mean 1193
Std Dev 0
pull1D
Entries 91
Mean −0.00546
Std Dev 1.035

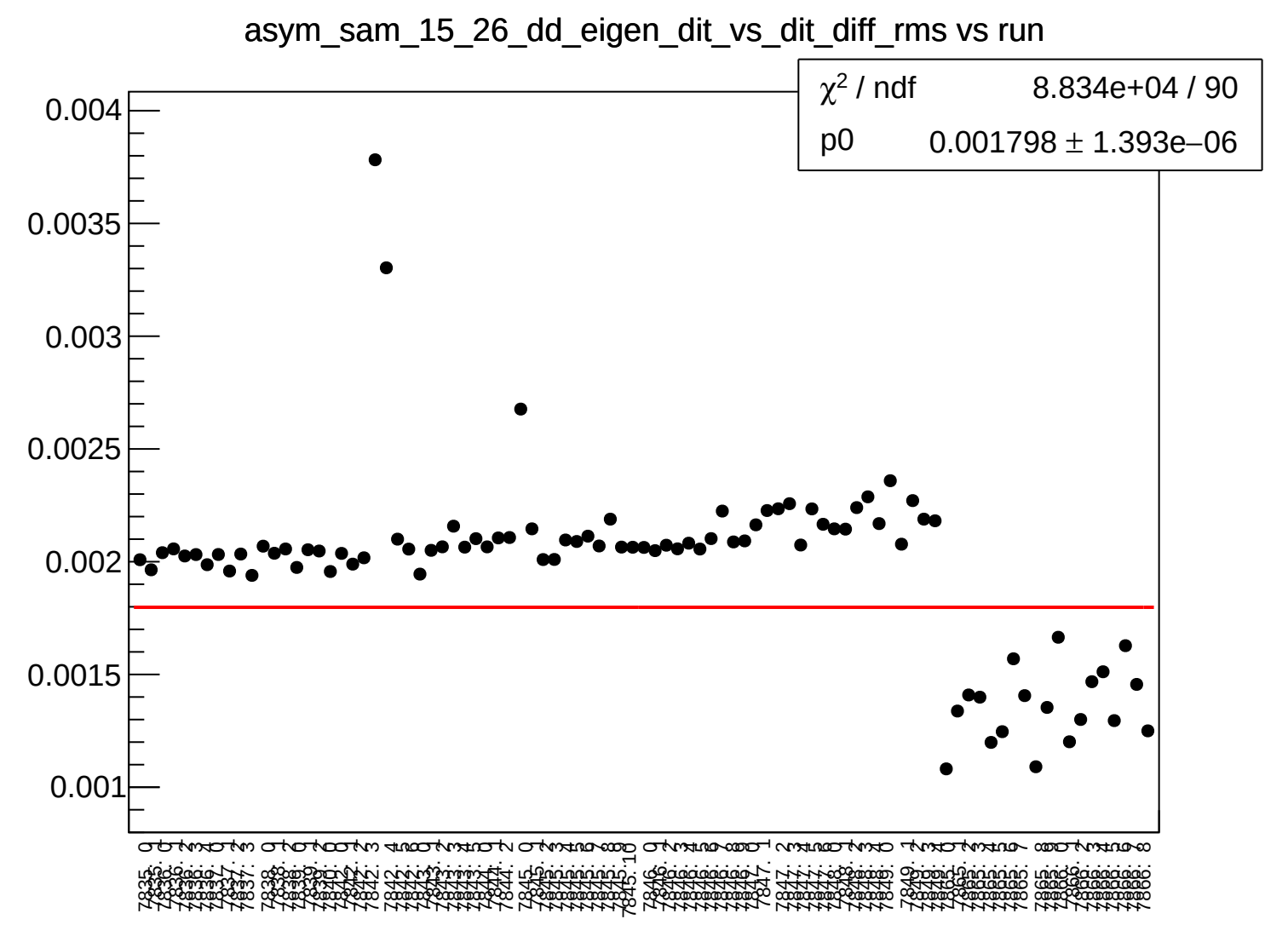

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.789e+04 / 90
p0 43.79 ± 0.03361
200
180
160
140
120
100
80
60
40

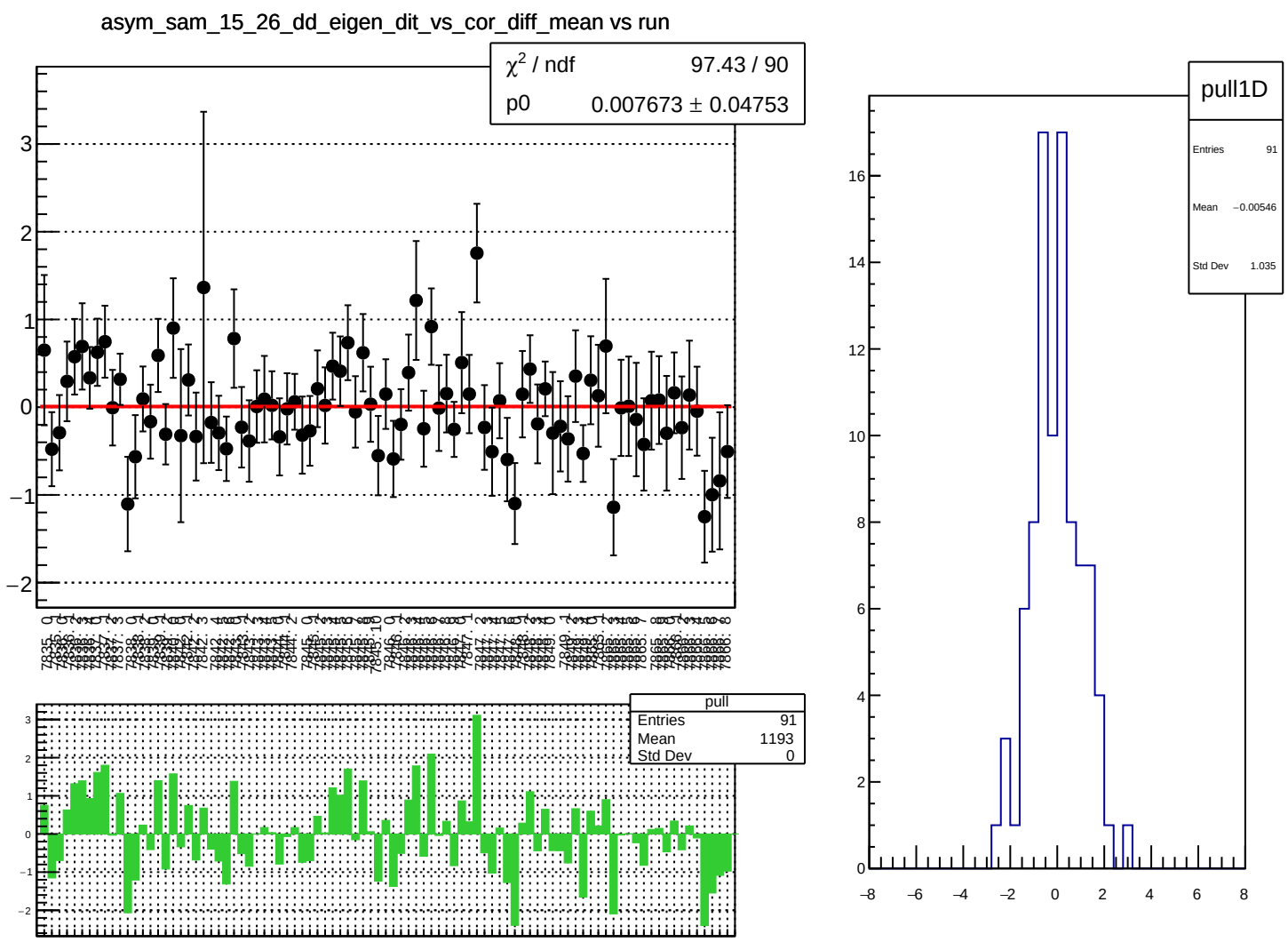

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.43 / 90
p0 0.007676 ± 0.04753
pull
Entries 91
Mean 1193
Std Dev 0
pull1D
Entries 91
Mean −0.00546
Std Dev 1.035

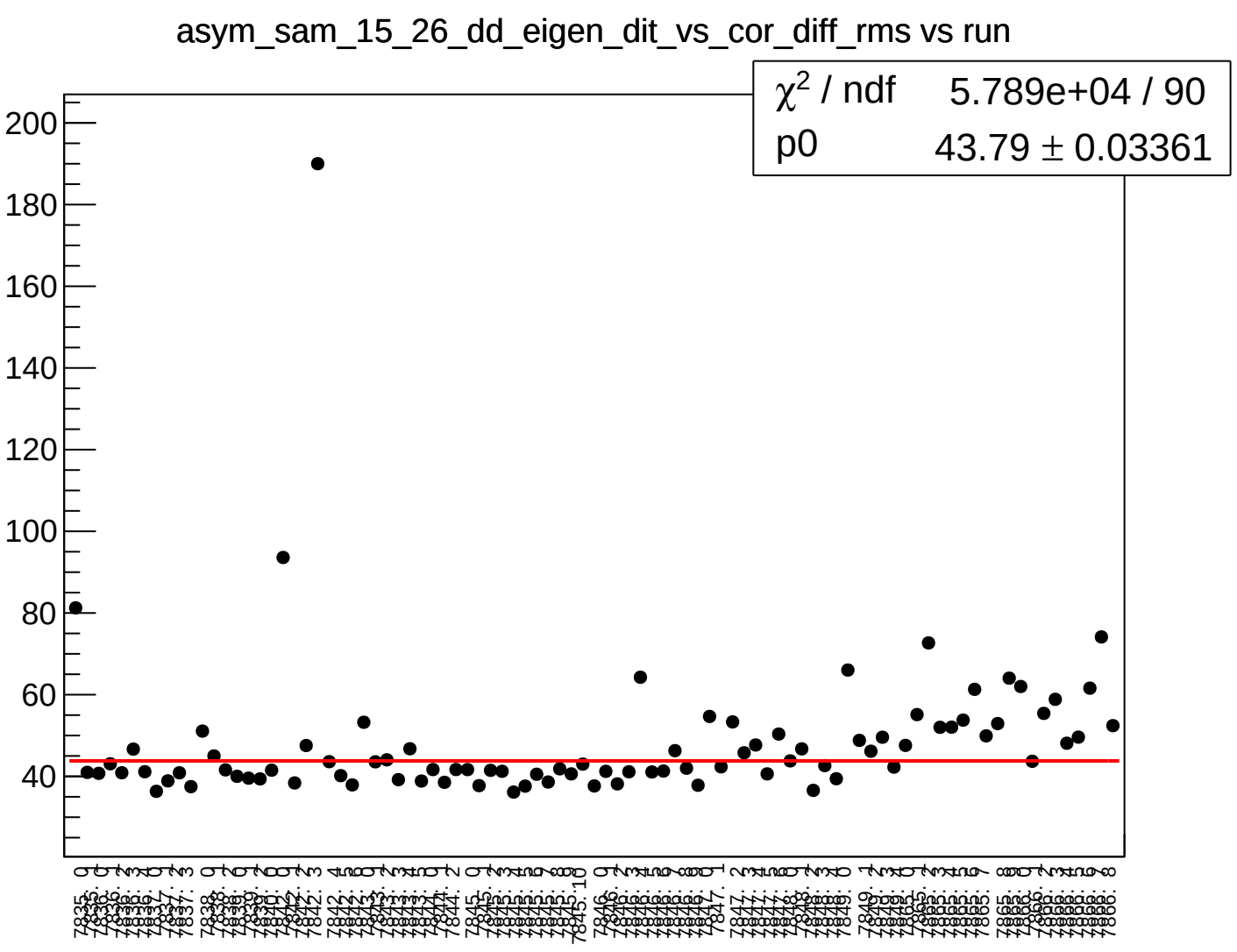

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.789e+04 / 90
p0 43.79 ± 0.03361
200
180
160
140
120
100
80
60
40

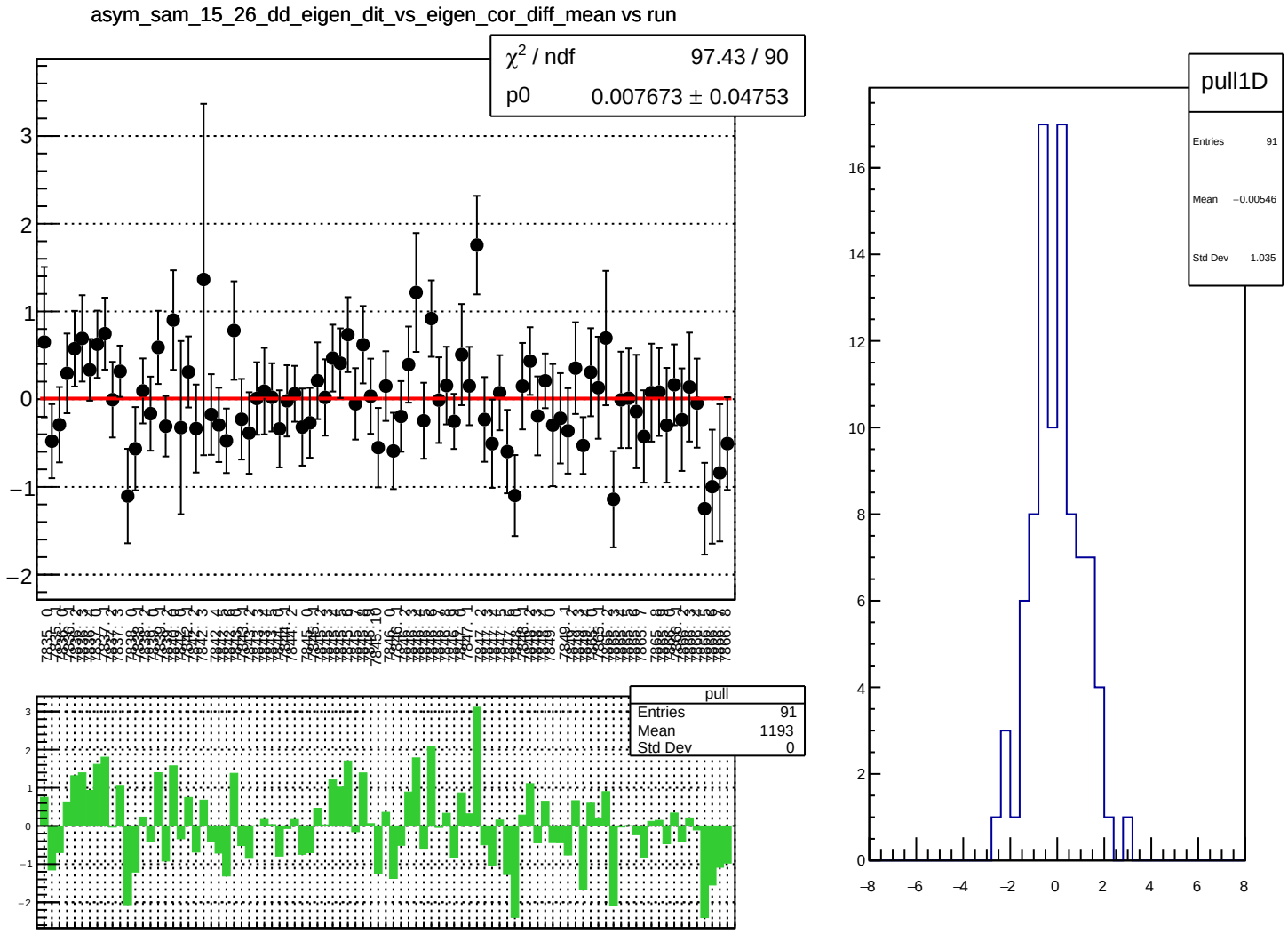

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.07 / 90
p0 −3.276e−06 ± 1.969e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 33.13
Std Dev 0
3
2
1
0
−1
−2

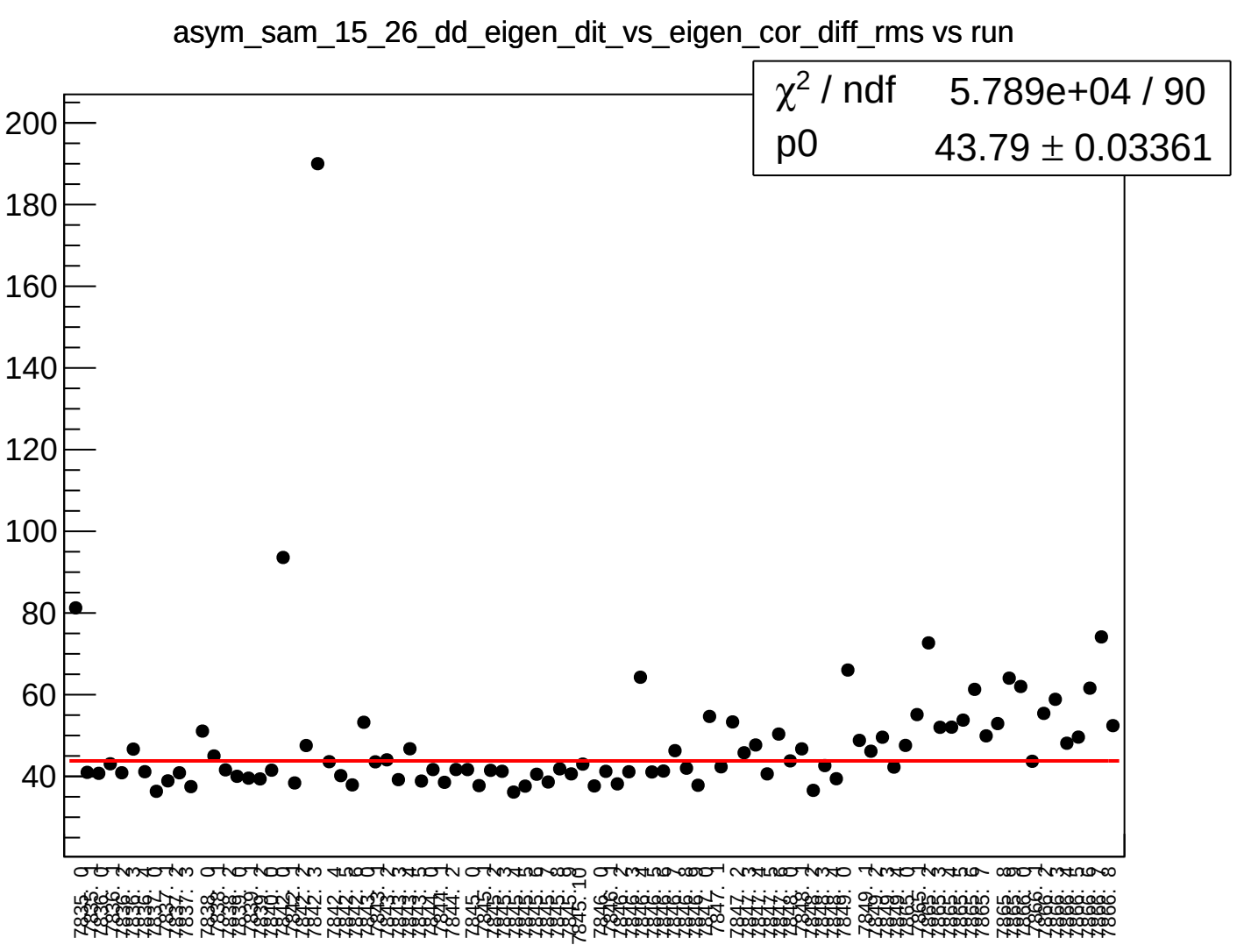

pull1D
Entries 91
Mean 0.01423
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

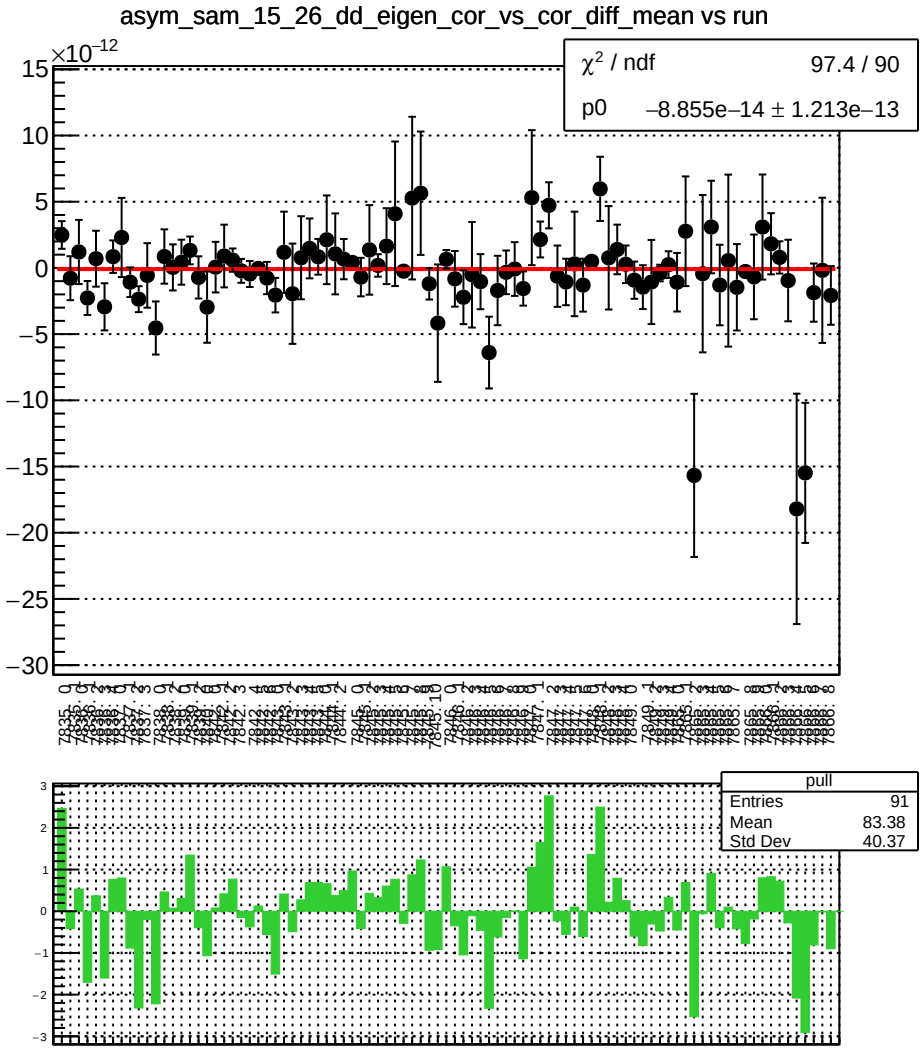

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.834e+04 / 90
p0 0.001798 ± 1.393e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

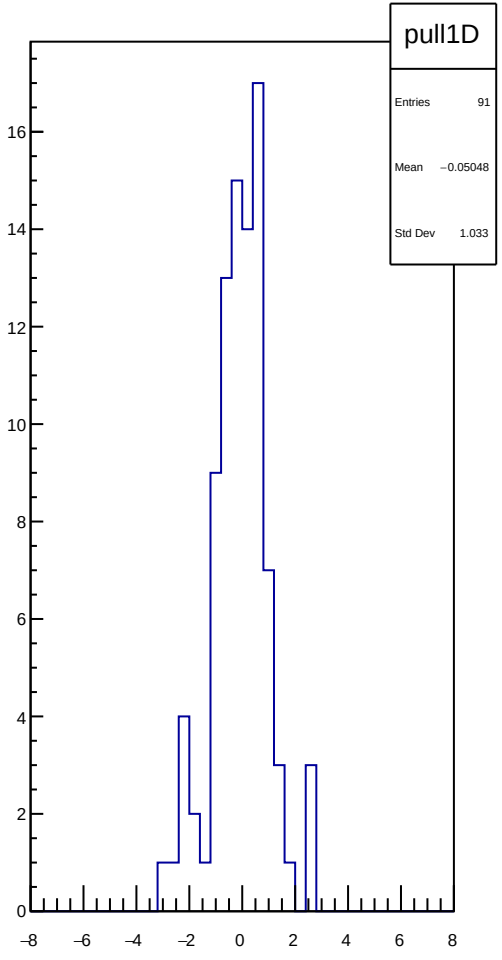

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.43 / 90
p0 0.007673 ± 0.04753
pull
Entries 91
Mean 1193
Std Dev 0
pull1D
Entries 91
Mean −0.00546
Std Dev 1.035

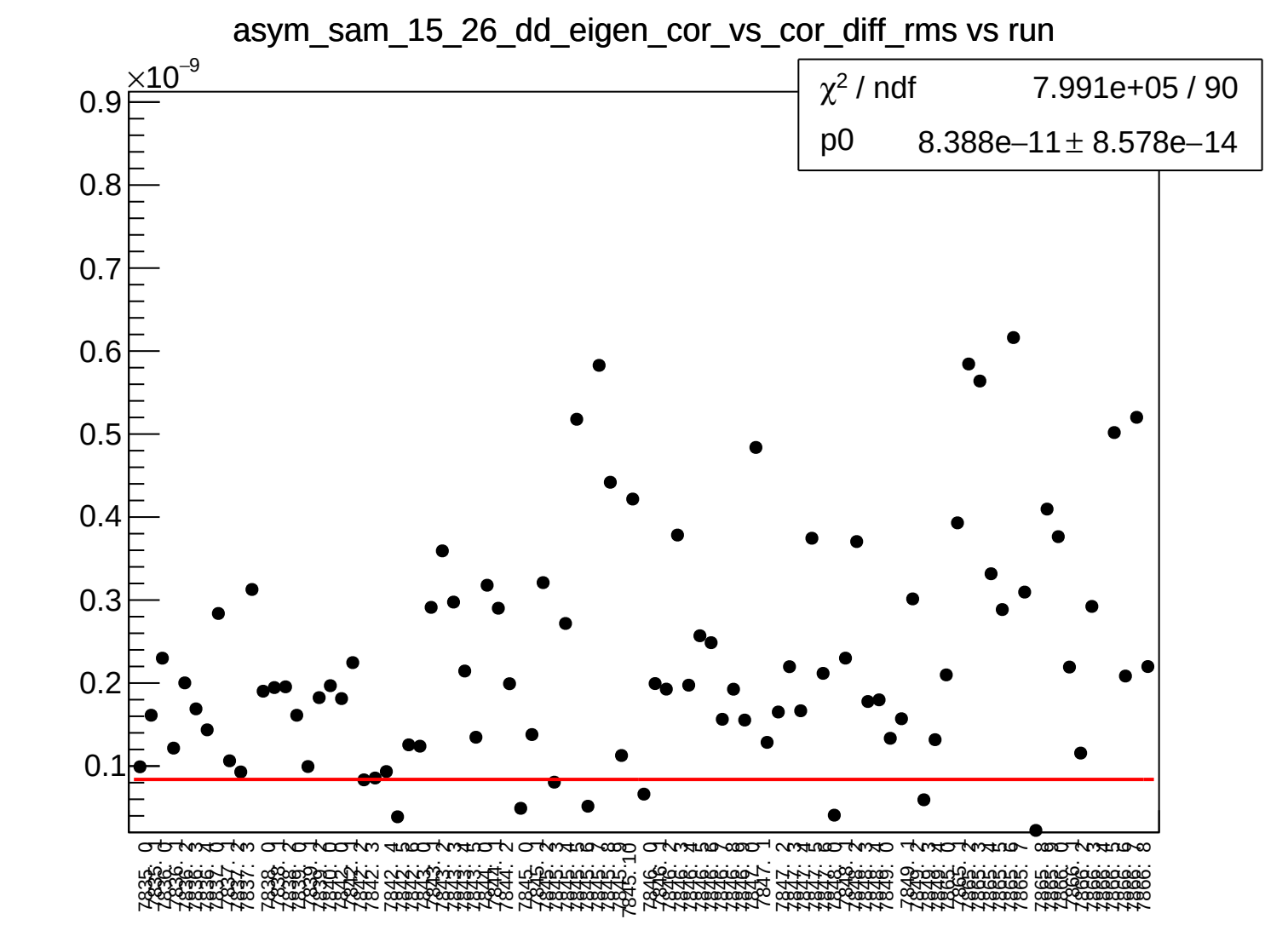

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.789e+04 / 90
p0 43.79 ± 0.03361
200
180
160
140
120
100
80
60
40

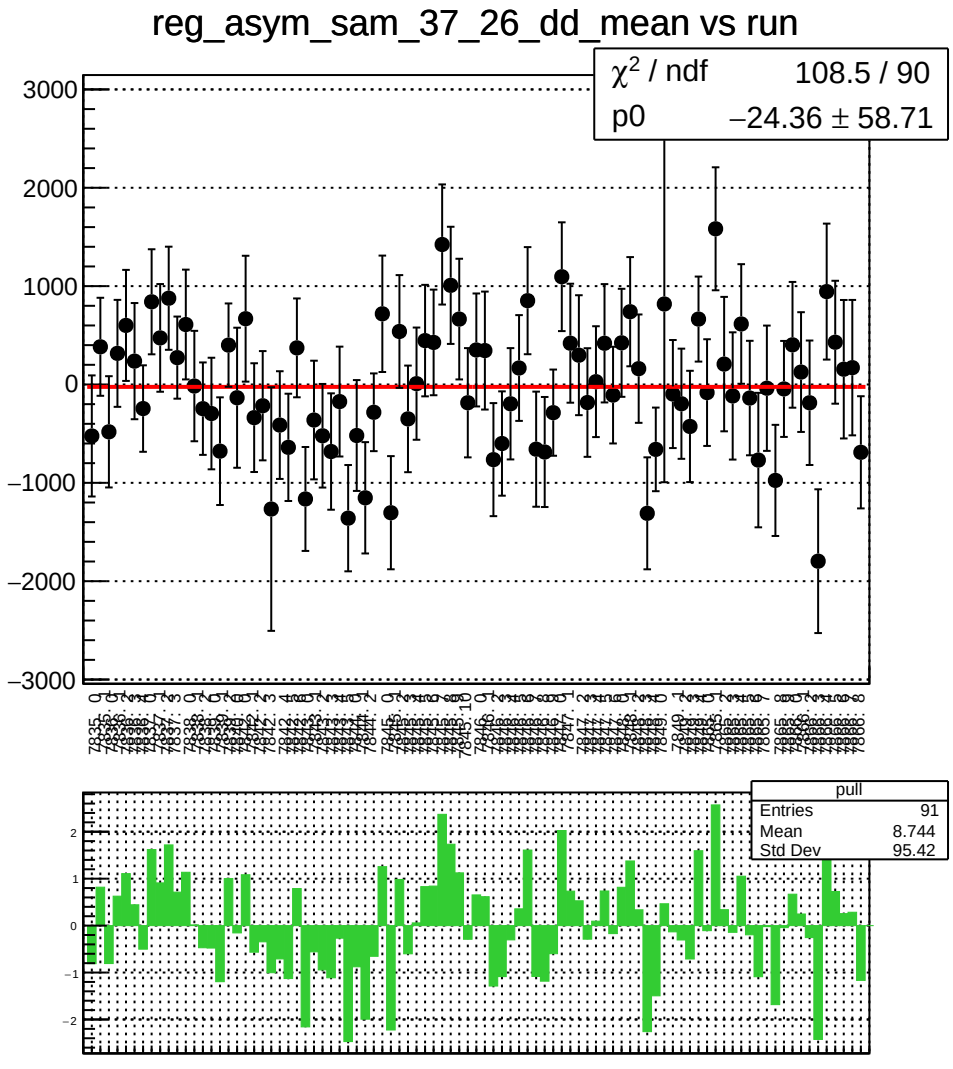

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.43 / 90
p0 0.007673 ± 0.04753
pull
Entries 91
Mean 1193
Std Dev 0
pull1D
Entries 91
Mean −0.00546
Std Dev 1.035

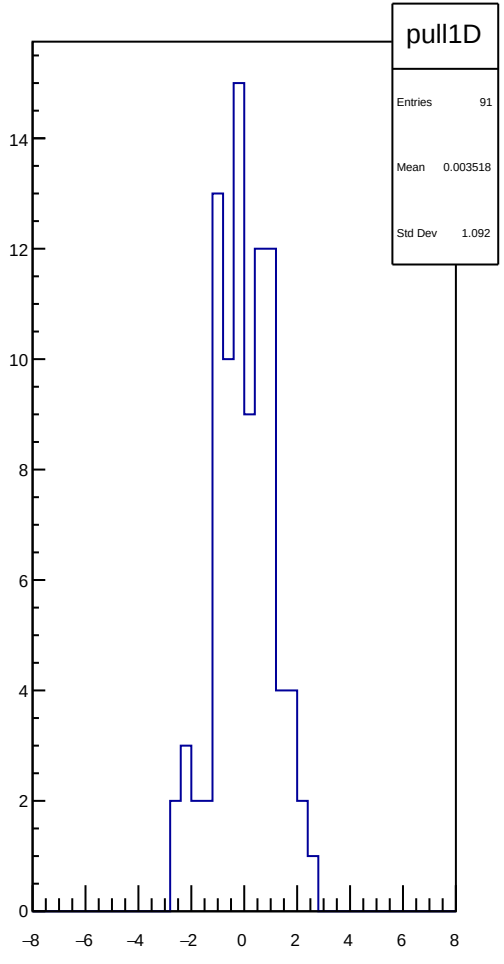

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.789e+04 / 90
p0 43.79 ± 0.03361
200
180
160
140
120
100
80
60
40

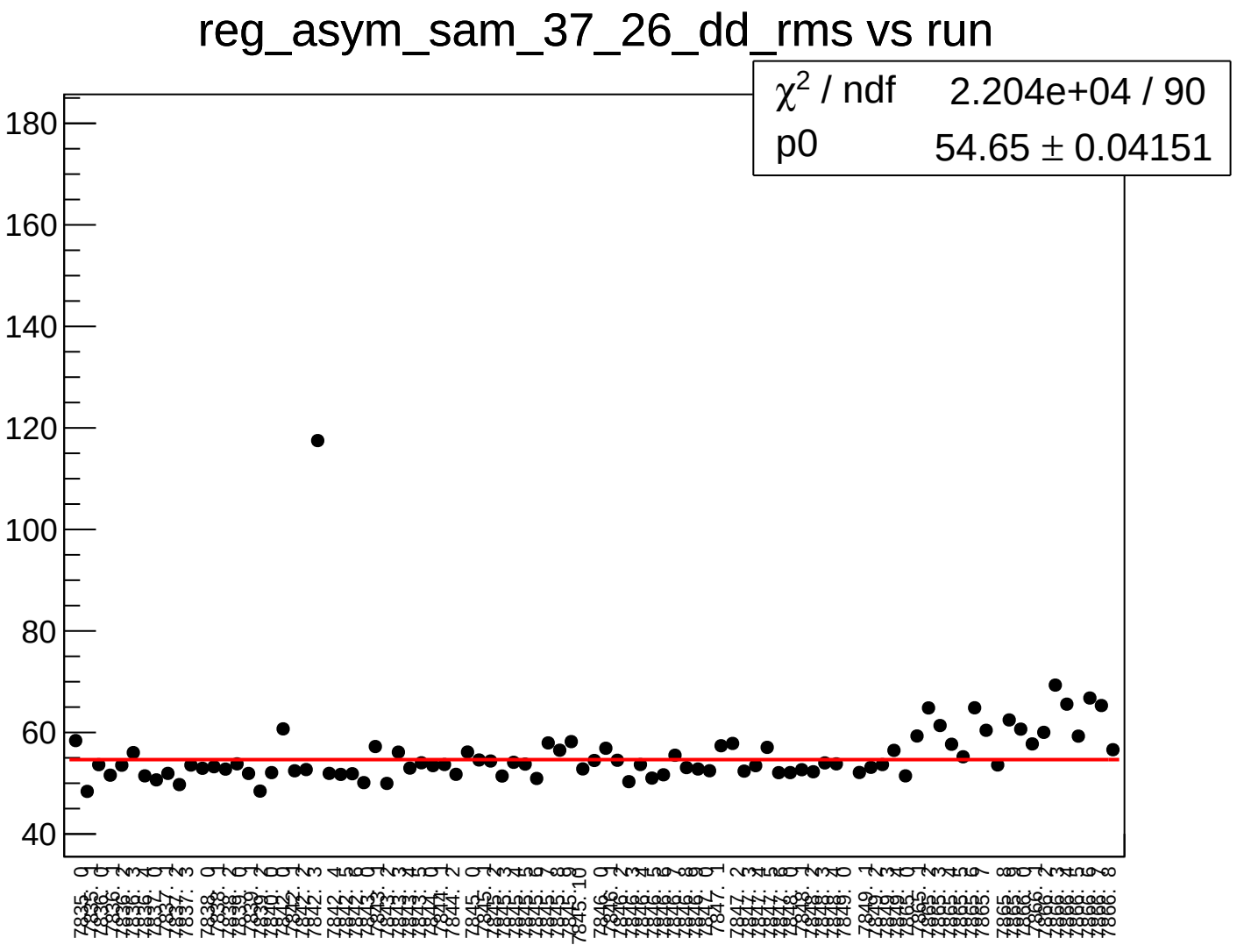

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.4 / 90
p0 −8.855e−14 ± 1.213e−13
pull
Entries 91
Mean 83.38
Std Dev 40.37

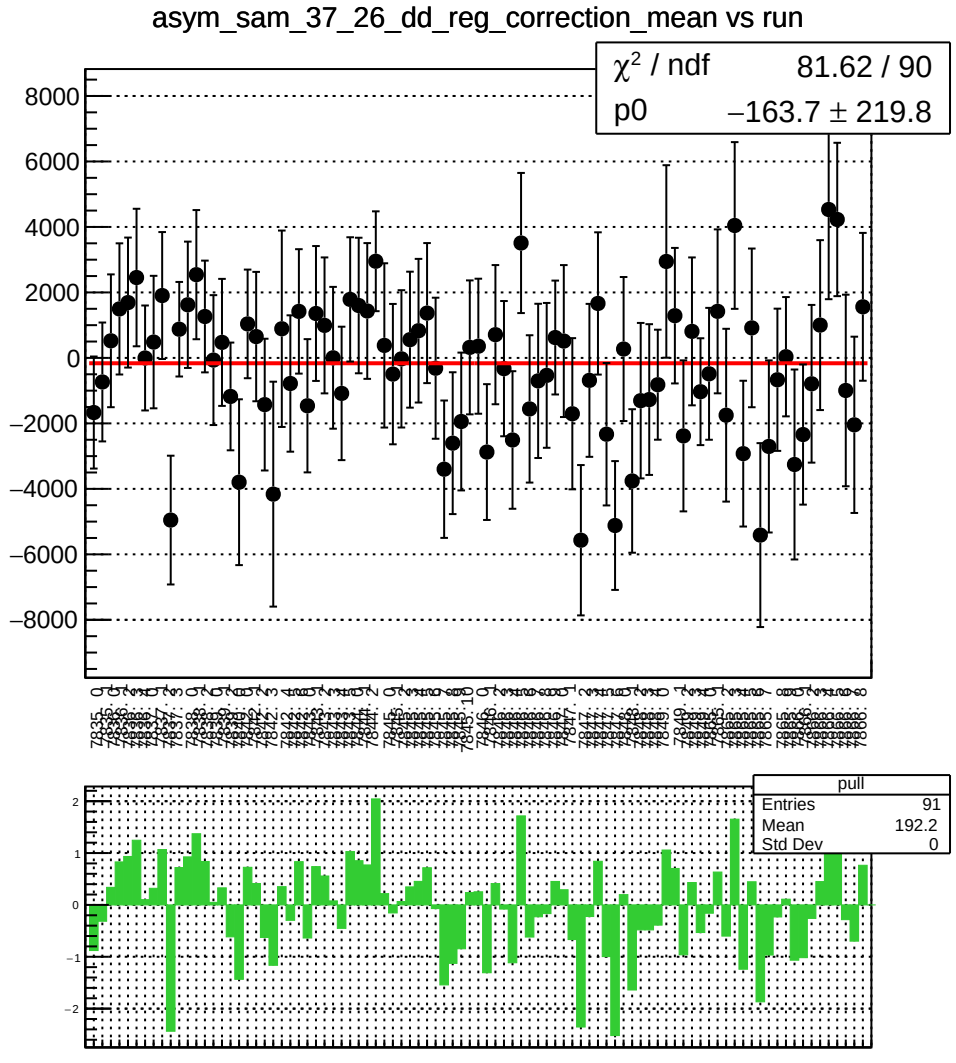

pull1D
Entries 91
Mean −0.05048
Std Dev 1.033

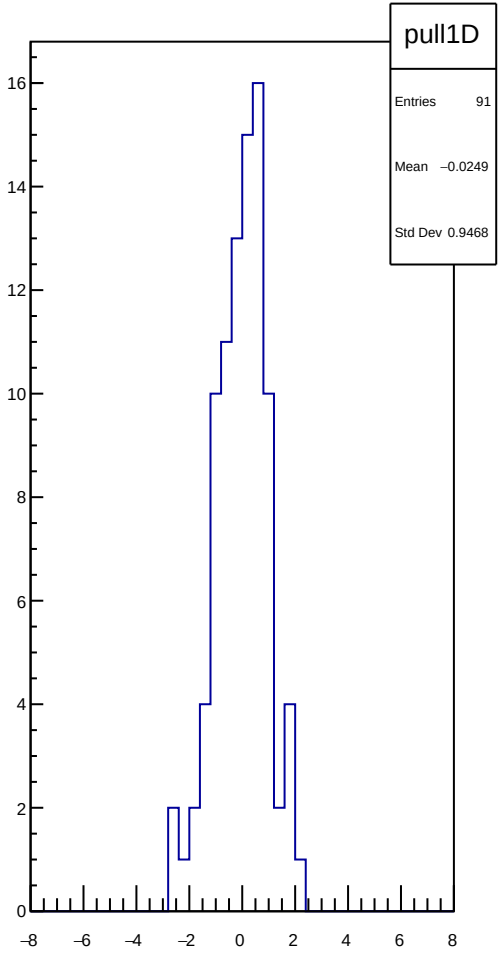

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.991e+05 / 90
p0 8.388e−11 ± 8.578e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

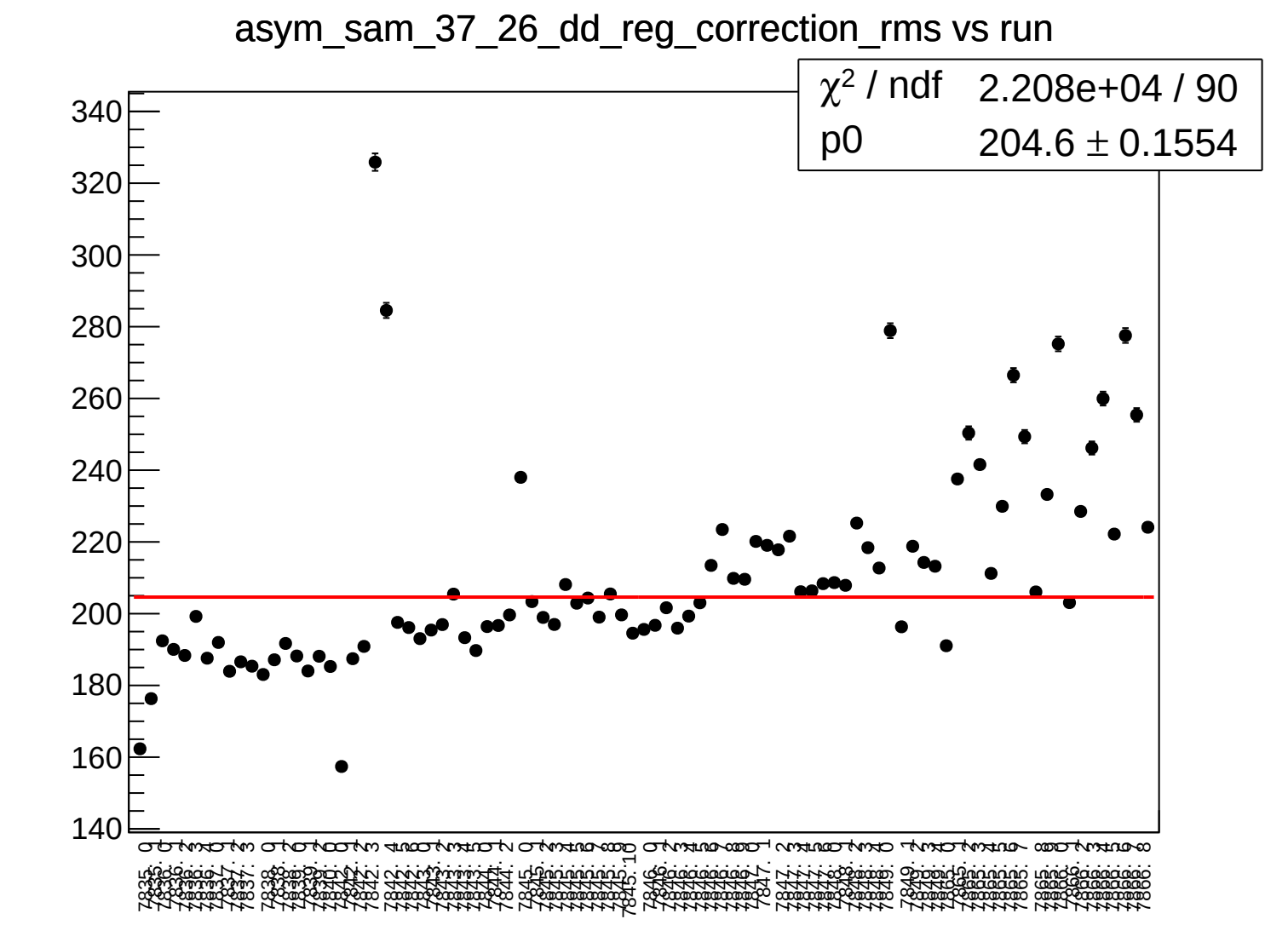

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 108.5 / 90
p0 −24.36 ± 58.71
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 8.744
Std Dev 95.42
2
1
0
−1
−2

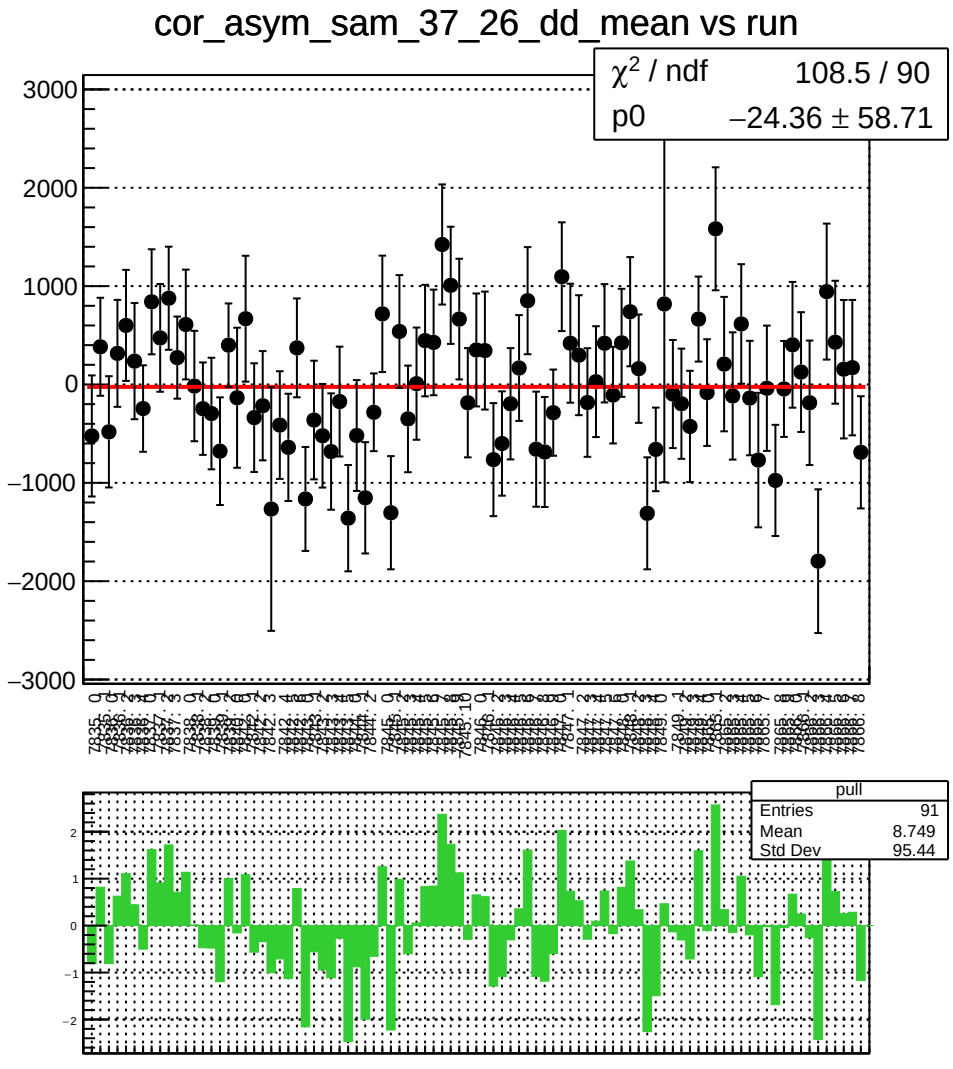

pull1D
Entries 91
Mean 0.003518
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

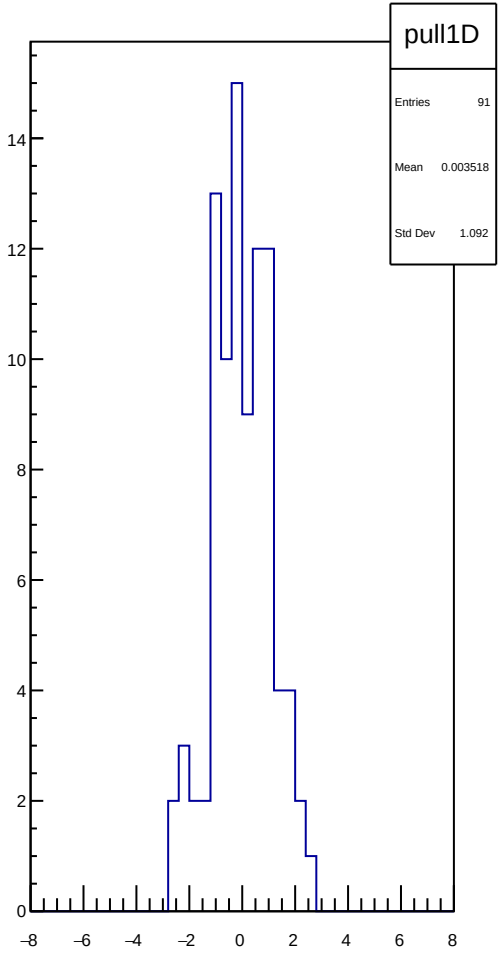

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.204e+04 / 90
p0 54.65 ± 0.04151
180
160
140
120
100
80
60
40

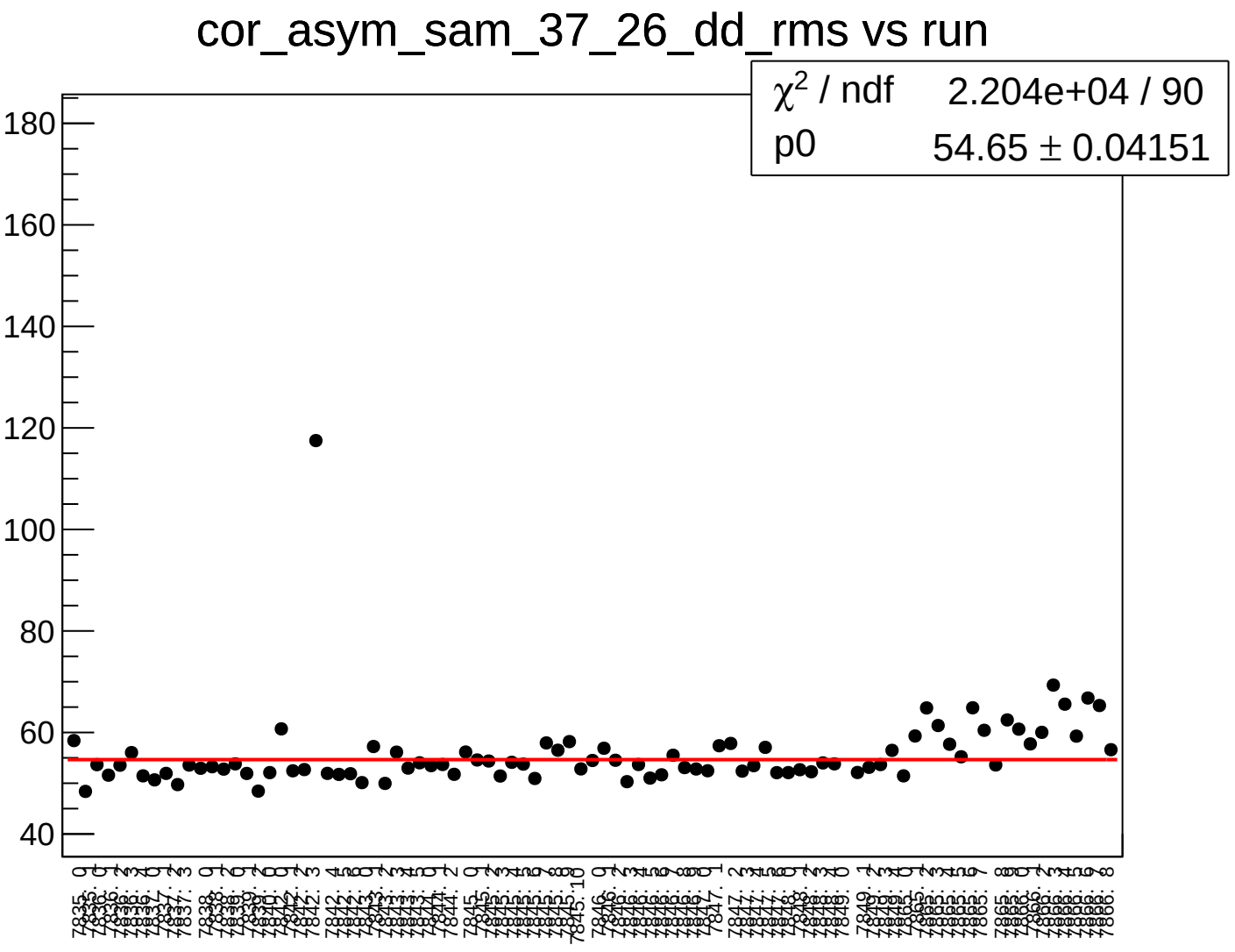

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 81.62 / 90
p0 −163.7 ± 219.8
pull
Entries 91
Mean 192.2
Std Dev 0

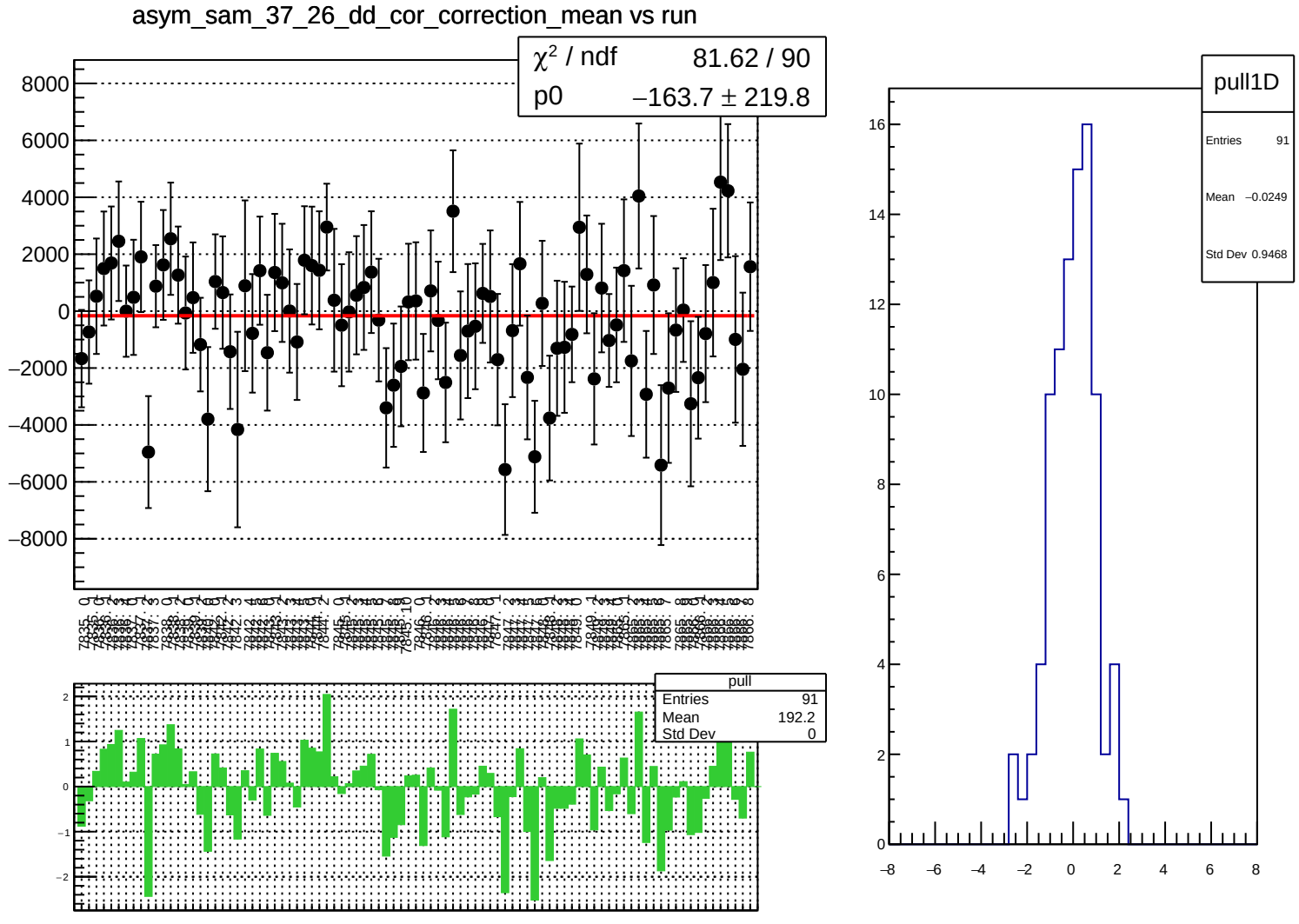

pull1D
Entries 91
Mean −0.0249
Std Dev 0.9468

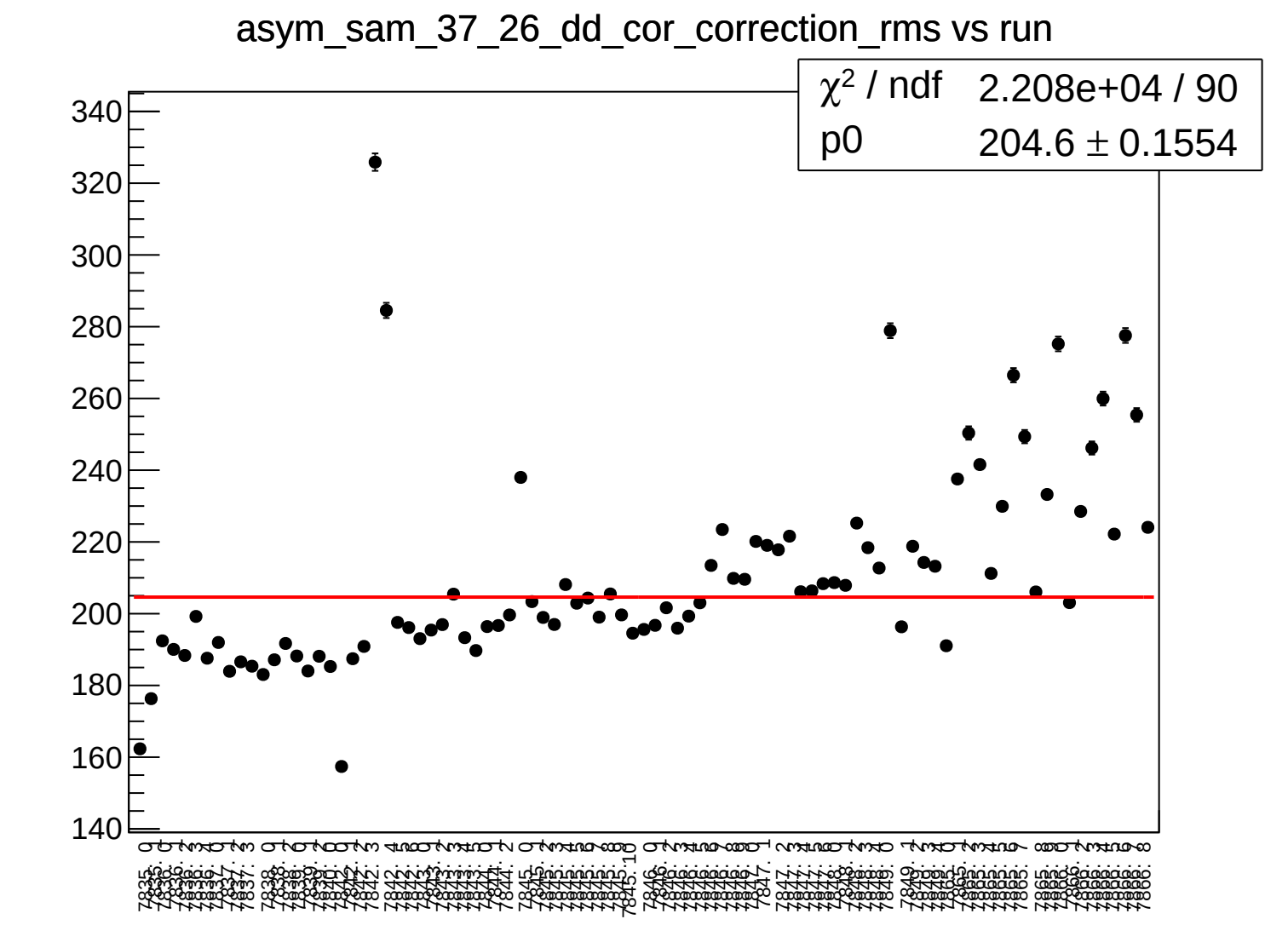

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2.208e+04 / 90
p0 204.6 ± 0.1554
340
320
300
280
260
240
220
200
180
160
140

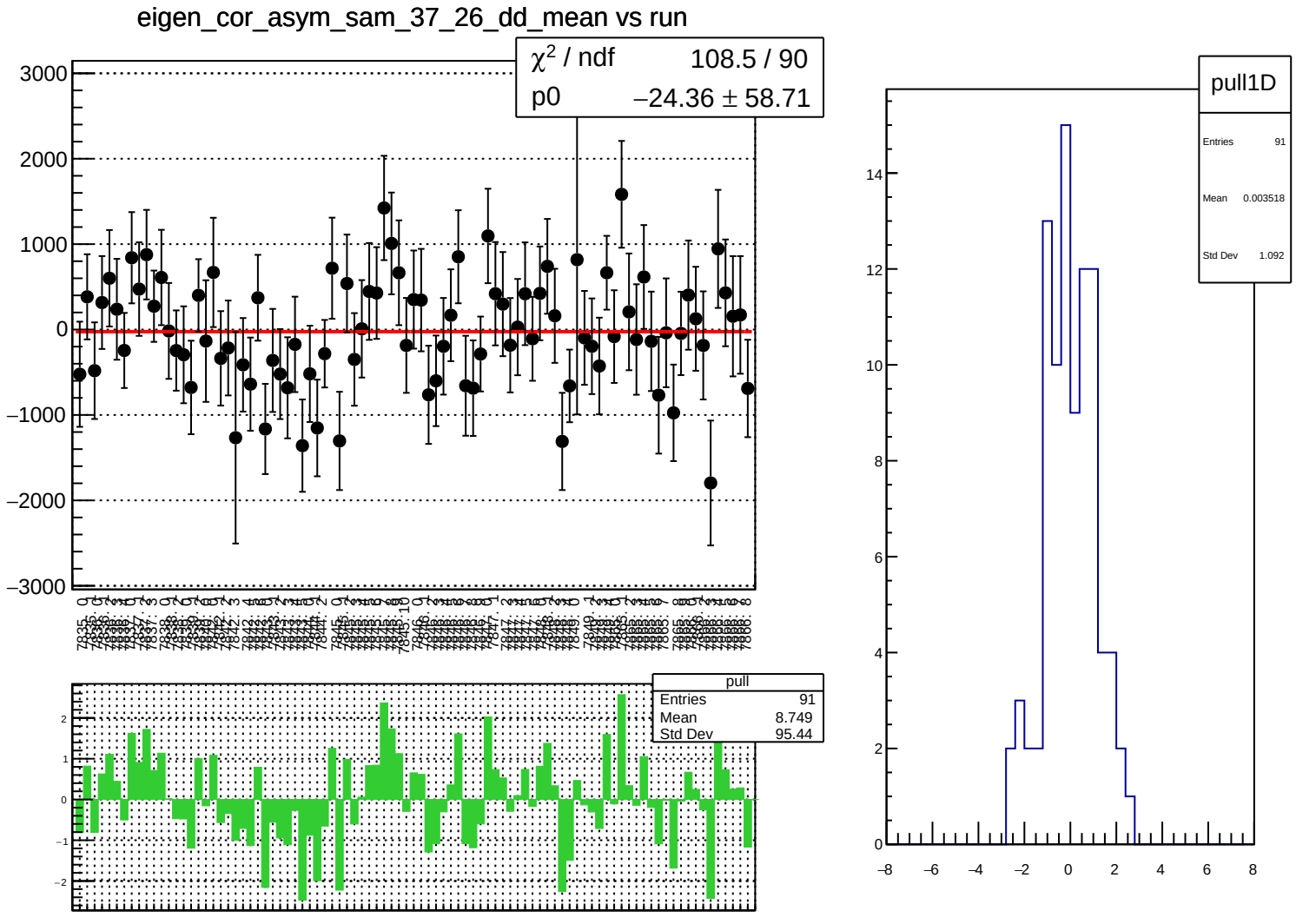

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 108.5 / 90
p0 −24.36 ± 58.71
pull
Entries 91
Mean 8.749
Std Dev 95.44

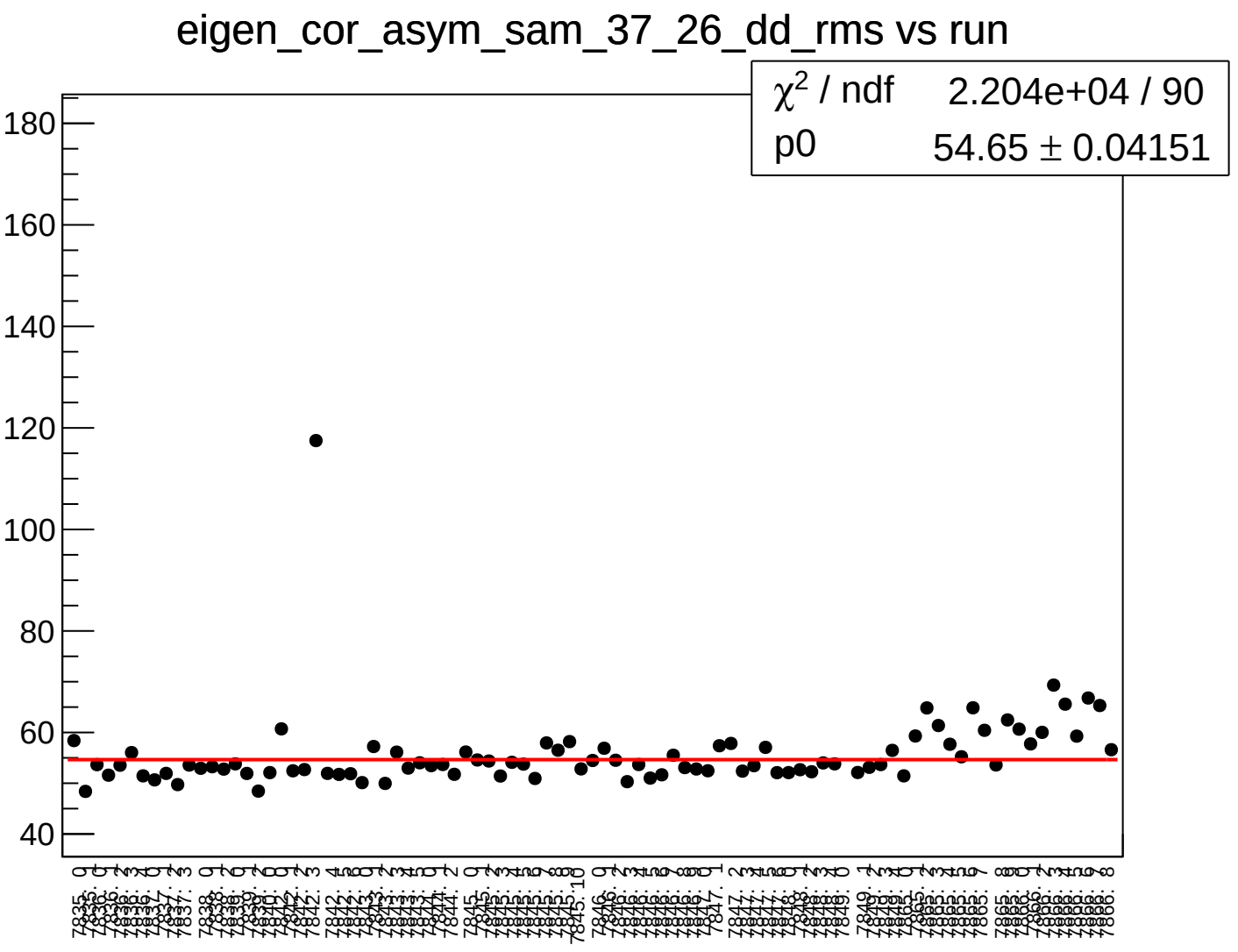

pull1D
Entries 91
Mean 0.003518
Std Dev 1.092

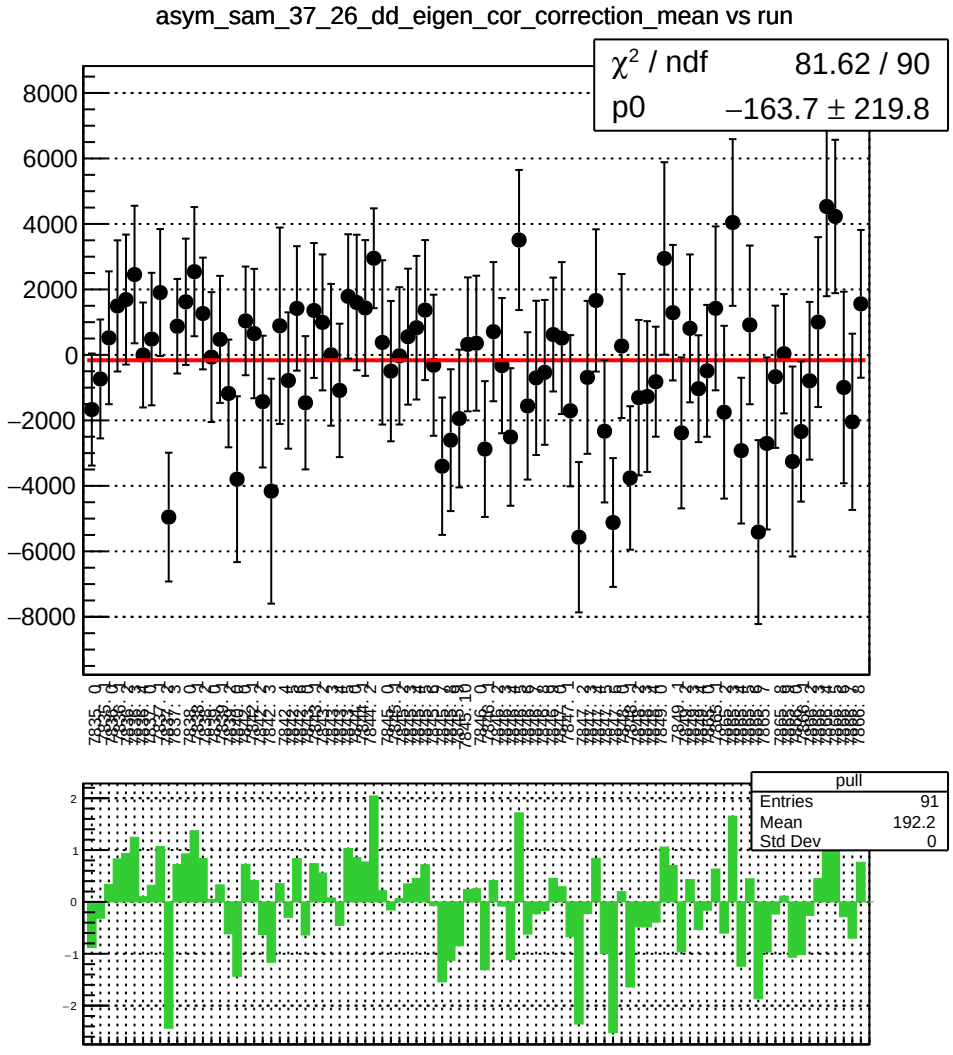

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.204e+04 / 90
p0 54.65 ± 0.04151
180
160
140
120
100
80
60
40

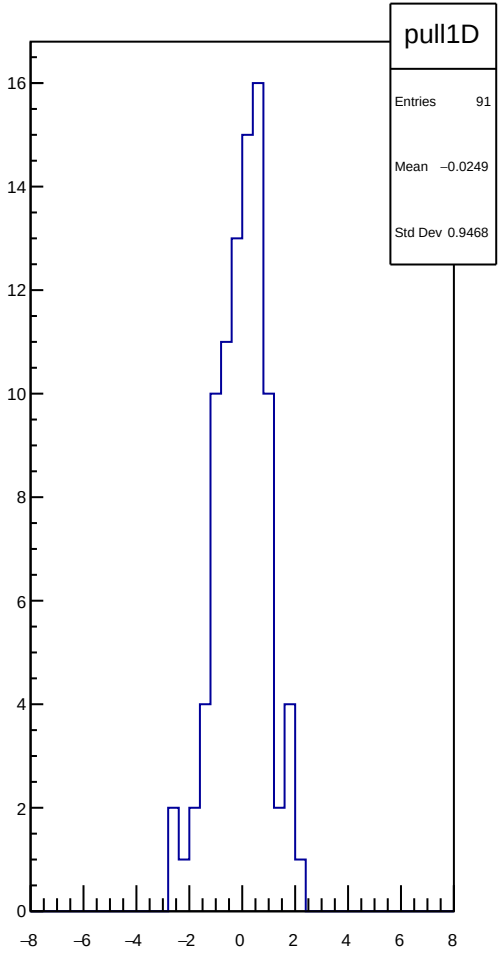

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 81.62 / 90
p0 −163.7 ± 219.8
pull
Entries 91
Mean 192.2
Std Dev 0
pull1D
Entries 91
Mean −0.0249
Std Dev 0.9468

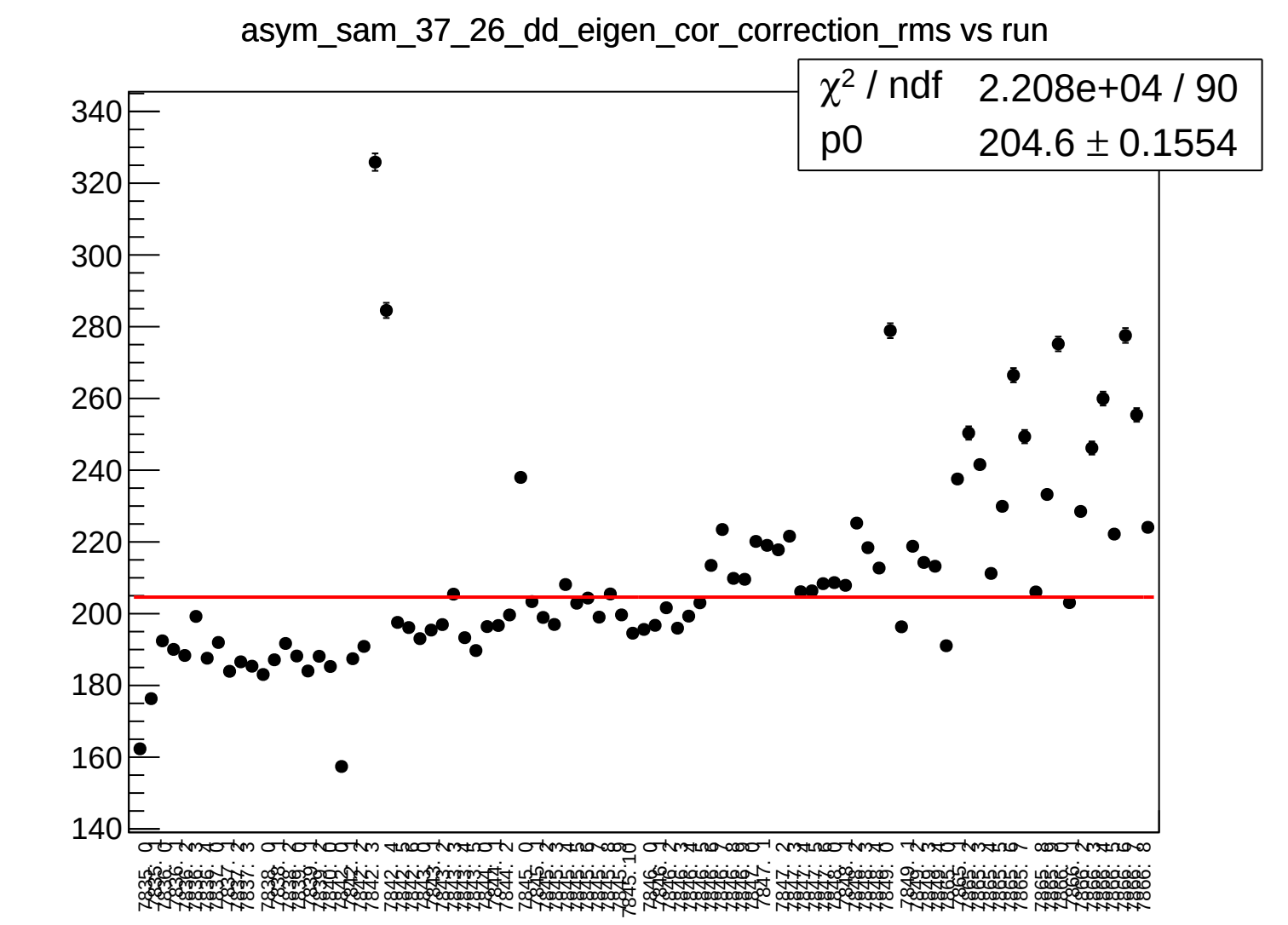

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2.208e+04 / 90
p0 204.6 ± 0.1554
340
320
300
280
260
240
220
200
180
160
140

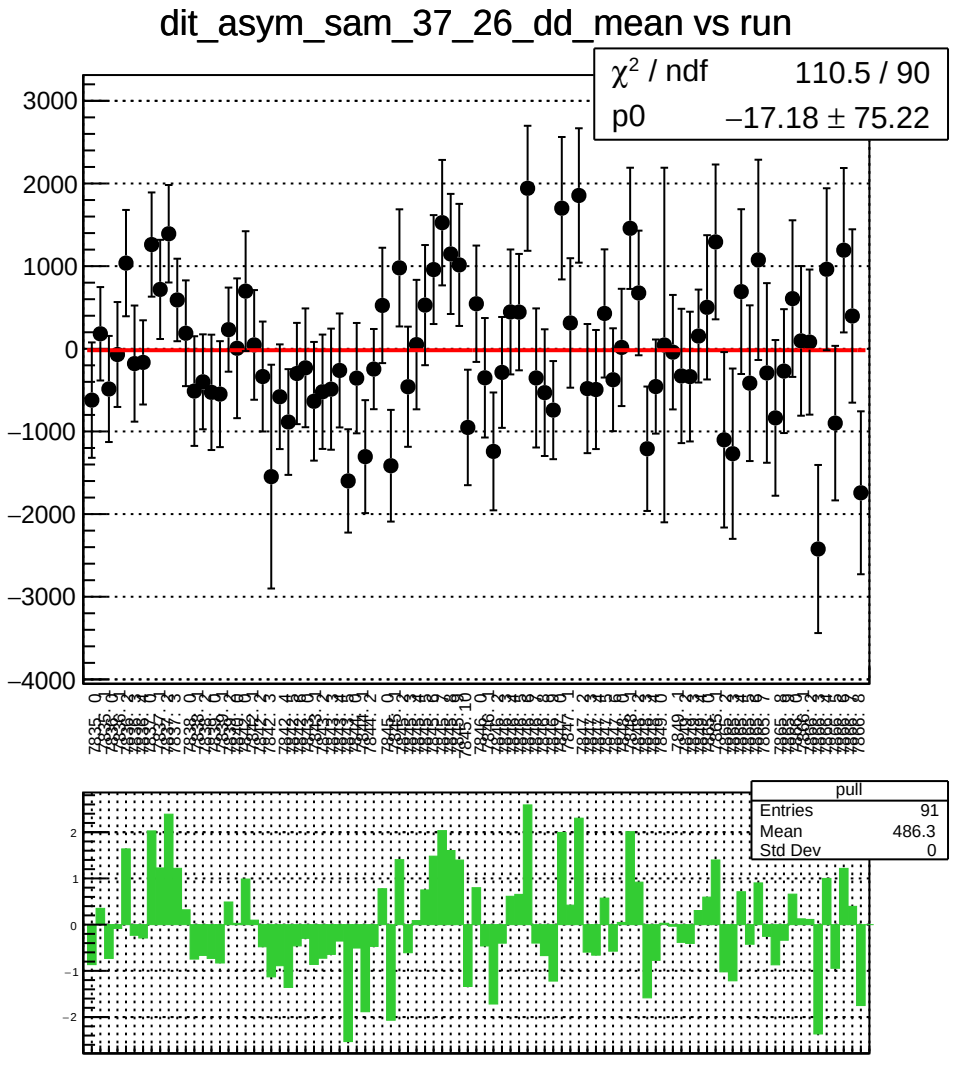

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 108.5 / 90
p0 −24.36 ± 58.71
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 8.749
Std Dev 95.44
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.003518
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

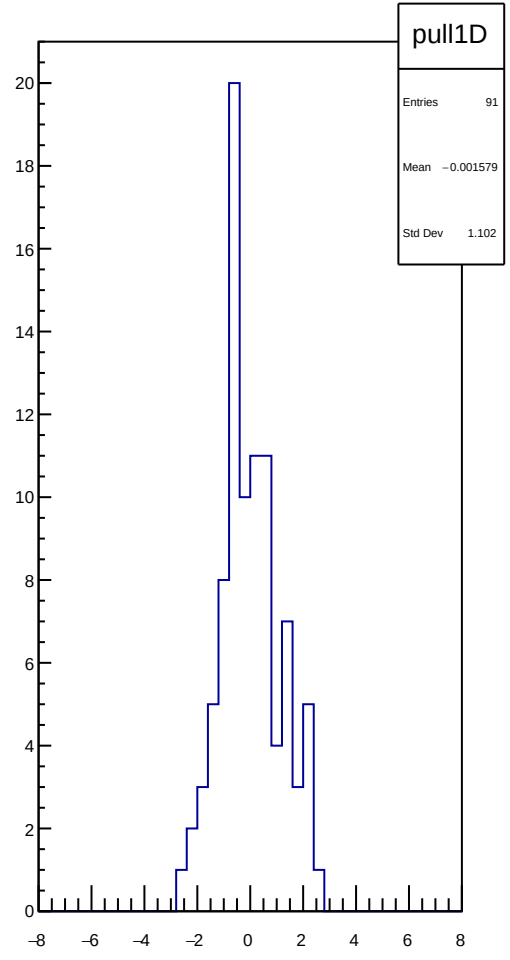

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.204e+04 / 90
p0 54.65 ± 0.04151
180
160
140
120
100
80
60
40

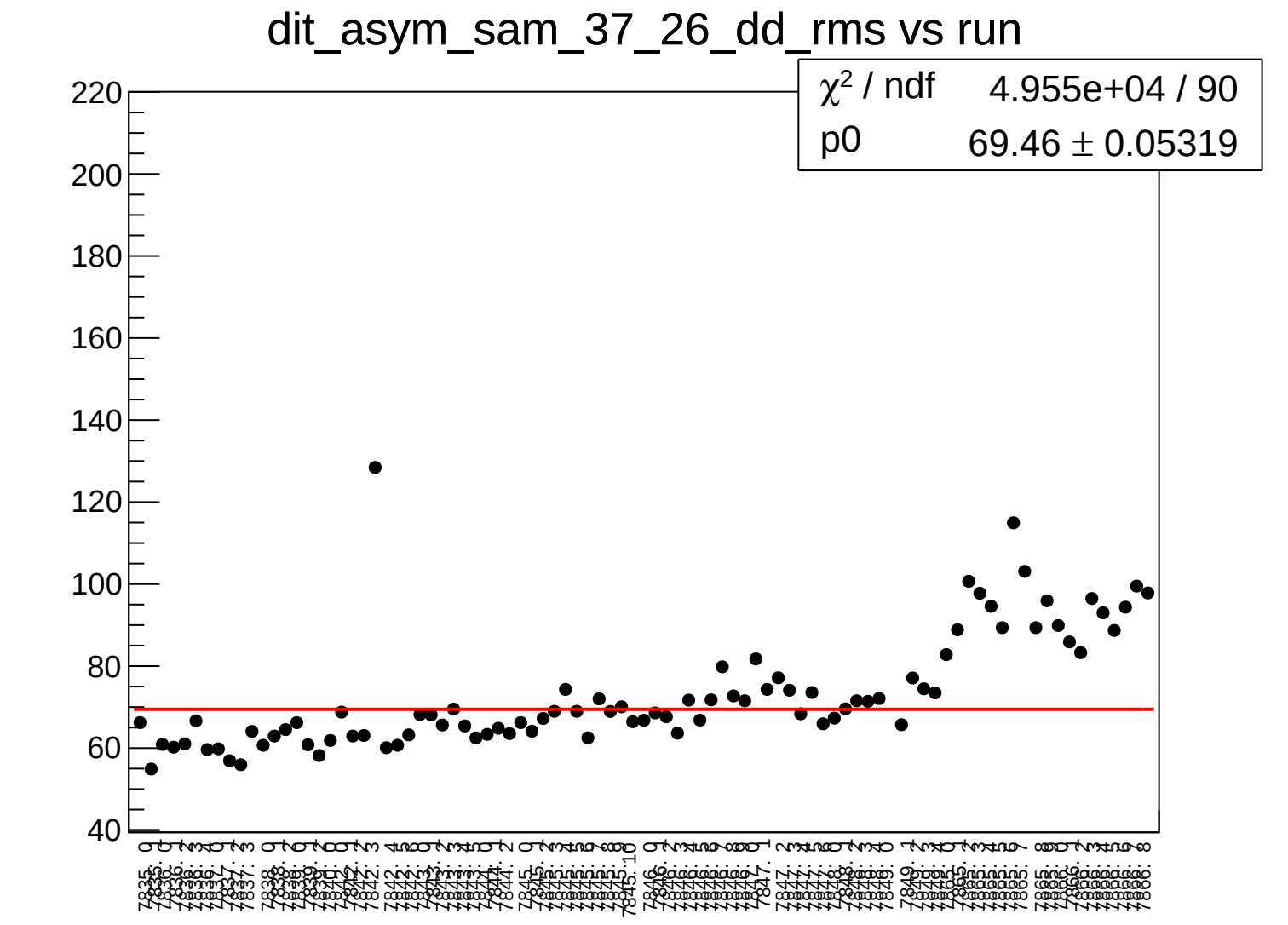

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.62 / 90
p0 −163.7 ± 219.8
pull
Entries 91
Mean 192.2
Std Dev 0

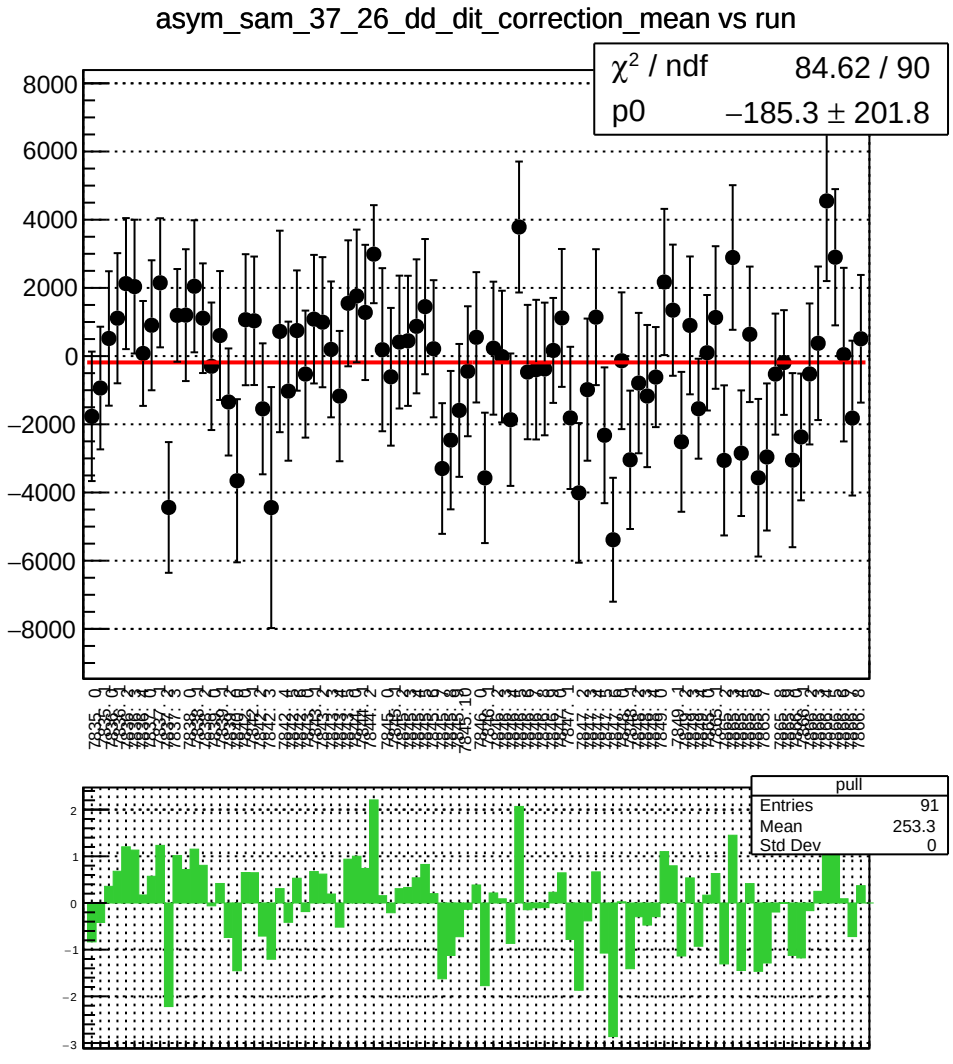

pull1D
Entries 91
Mean −0.0249
Std Dev 0.9468

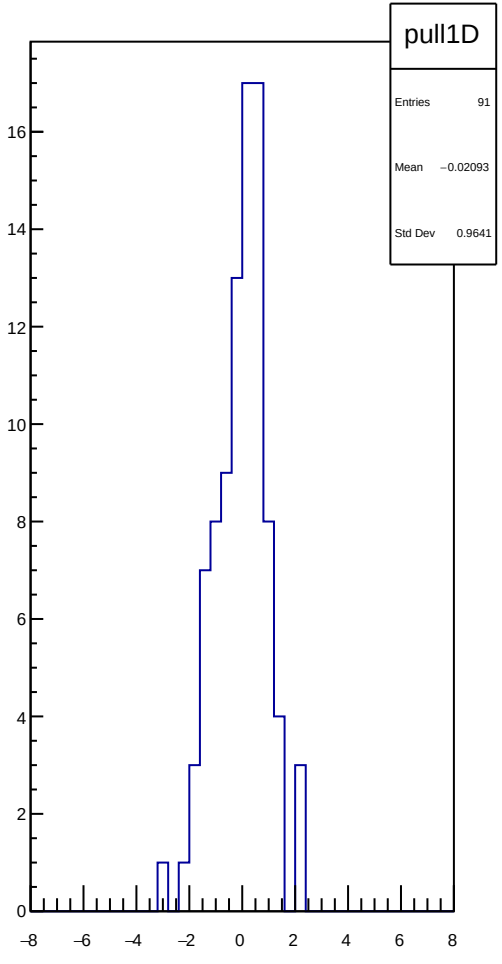

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.208e+04 / 90
p0 204.6 ± 0.1554
340
320
300
280
260
240
220
200
180
160
140

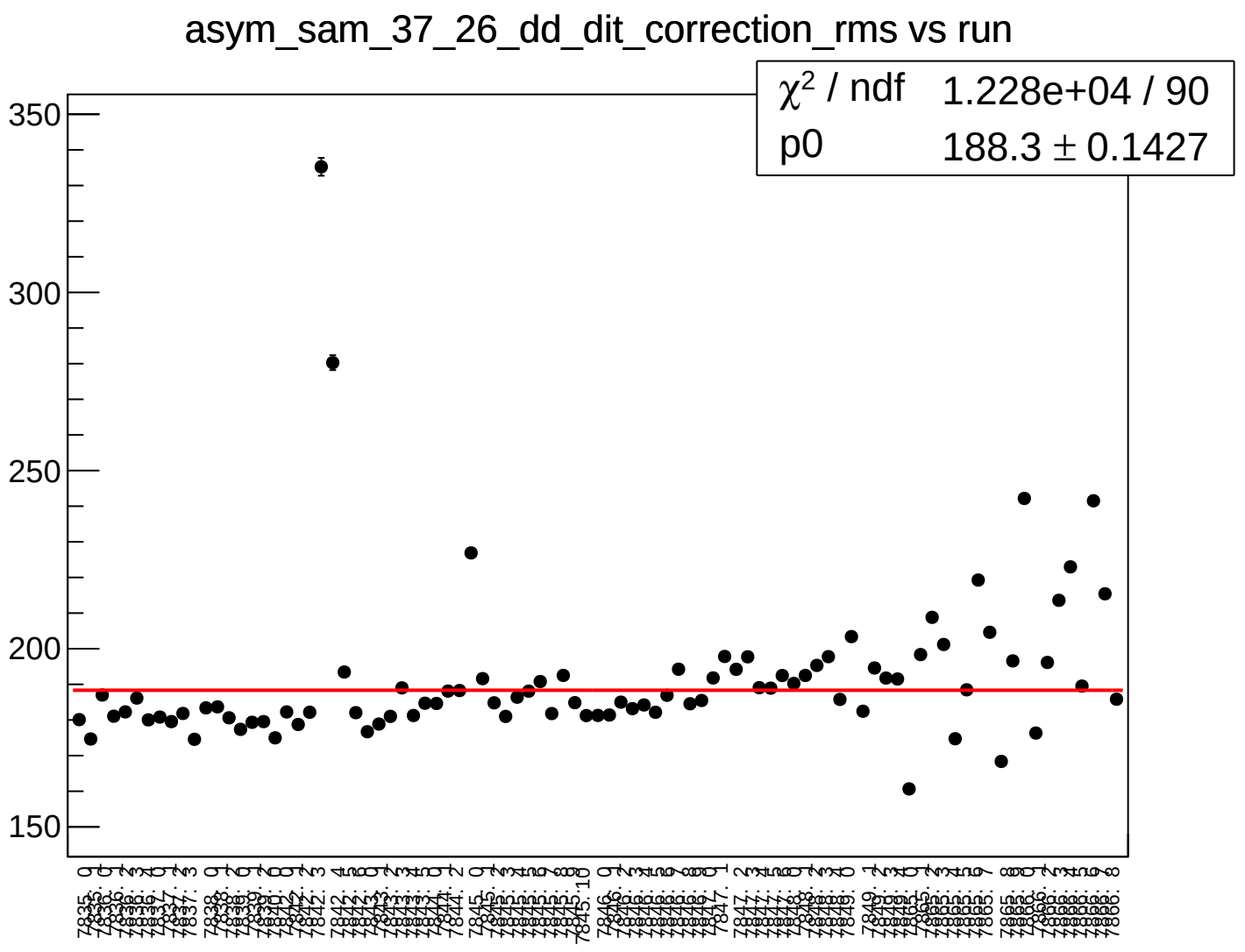

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 110.5 / 90
p0 −17.18 ± 75.22
pull
Entries 91
Mean 486.3
Std Dev 0

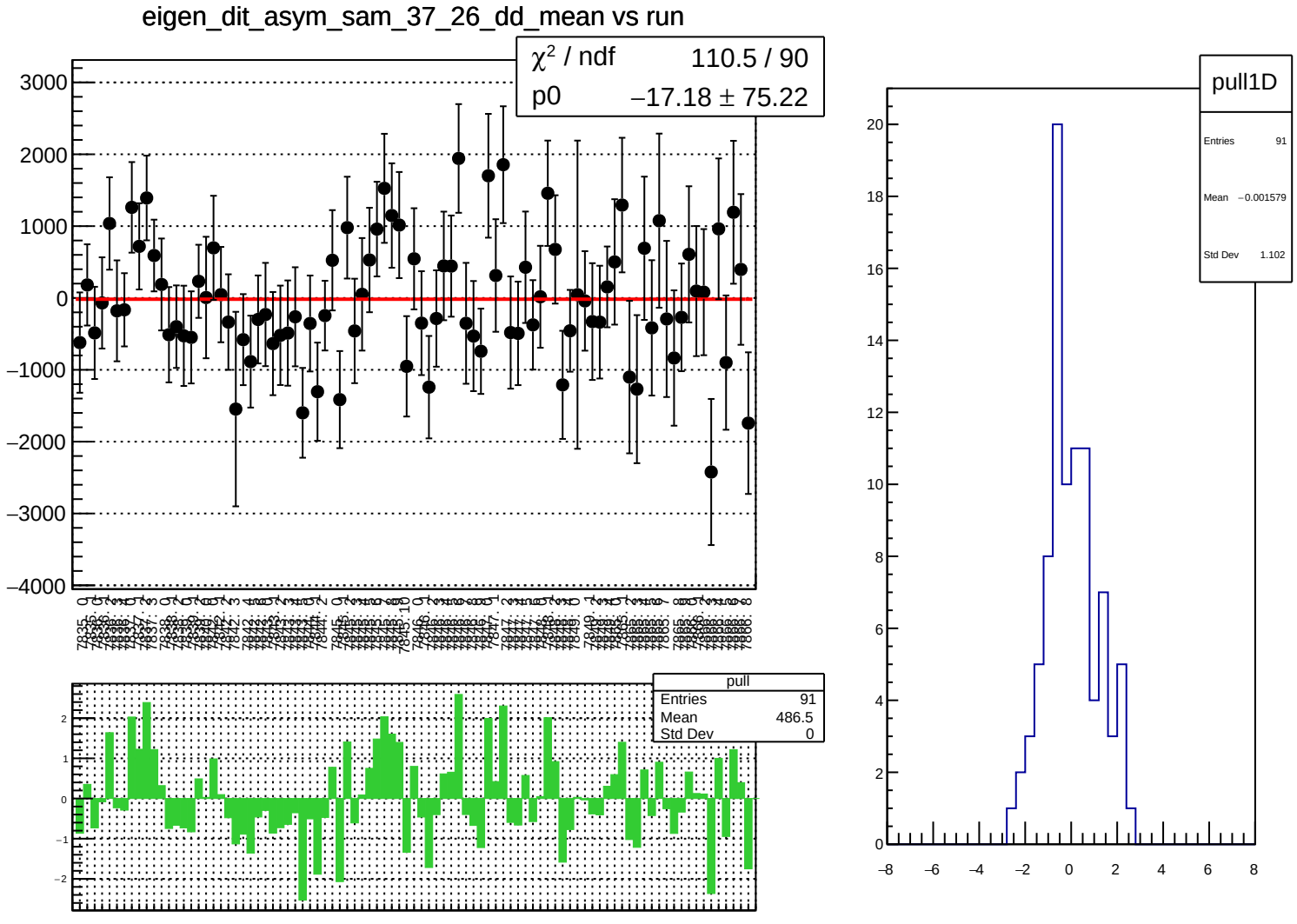

pull1D
Entries 91
Mean −0.001579
Std Dev 1.102

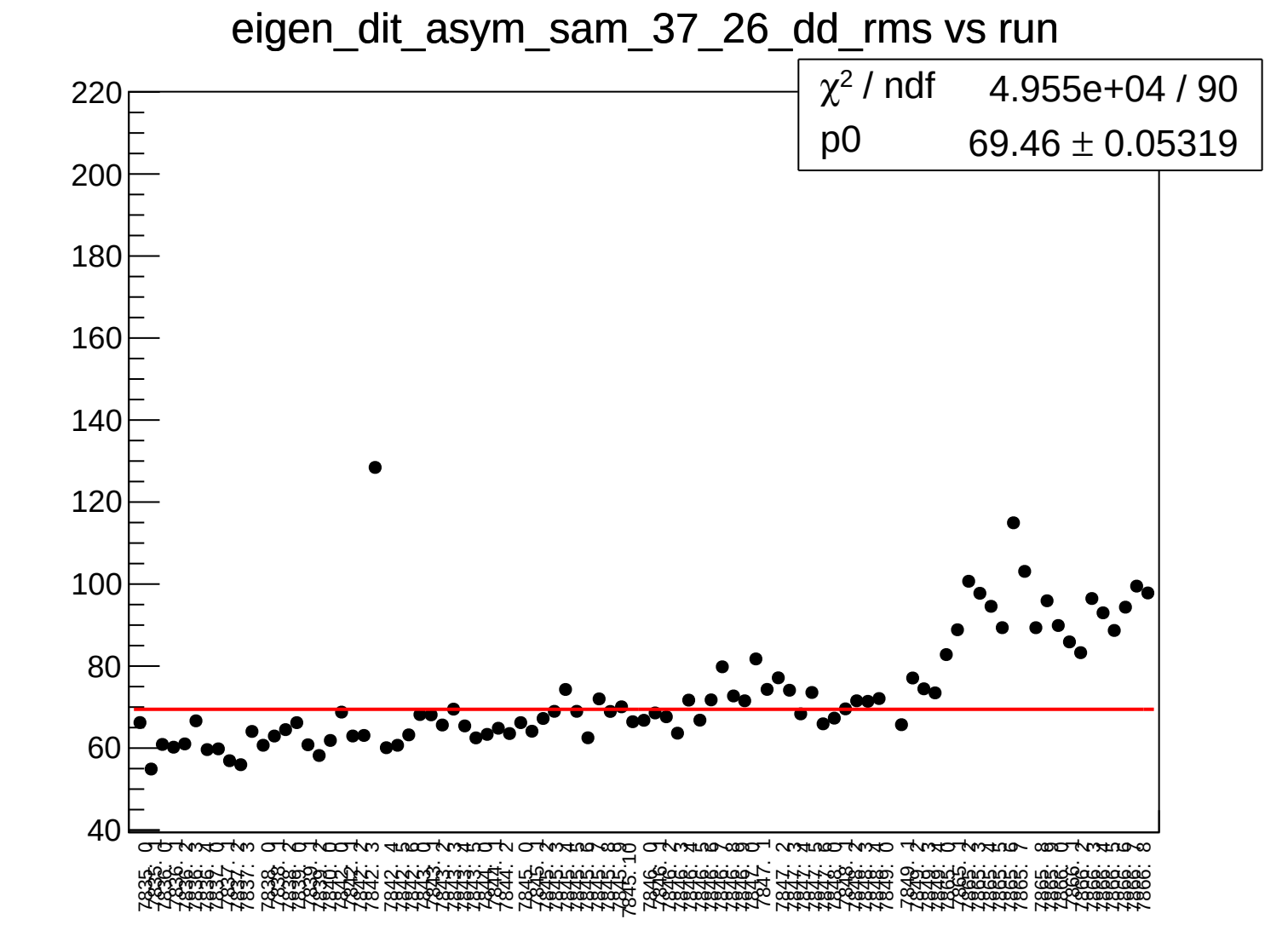

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 4.955e+04 / 90
p0 69.46 ± 0.05319
220
200
180
160
140
120
100
80
60
40

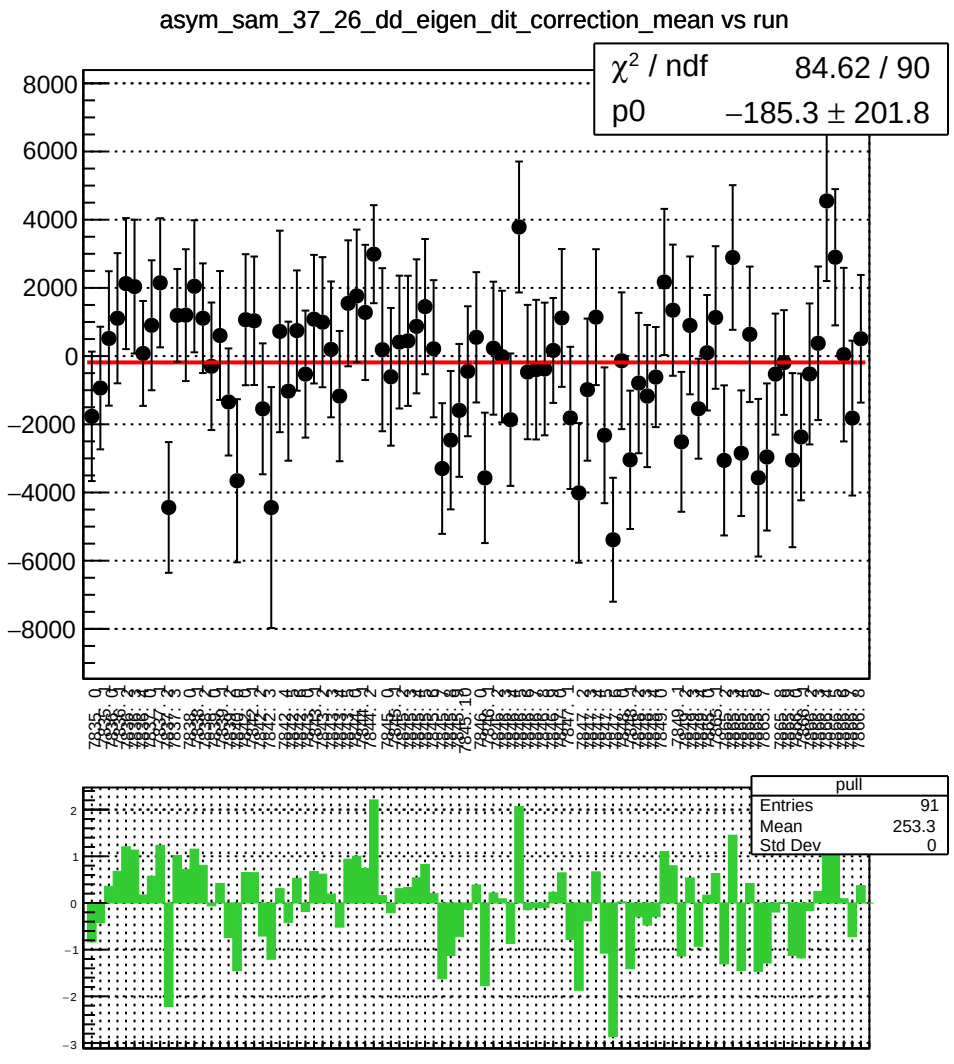

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 84.62 / 90
p0 −185.3 ± 201.8
pull
Entries 91
Mean 253.3
Std Dev 0

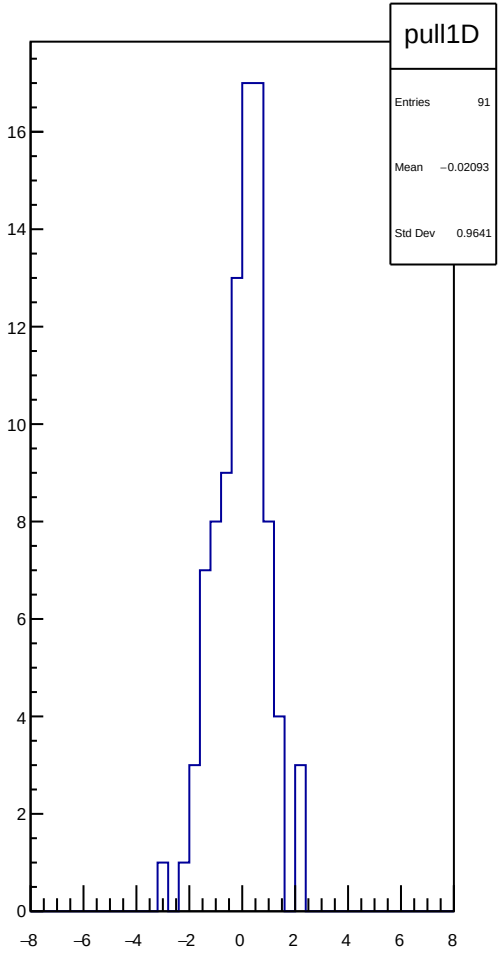

pull1D
Entries 91
Mean −0.02093
Std Dev 0.9641

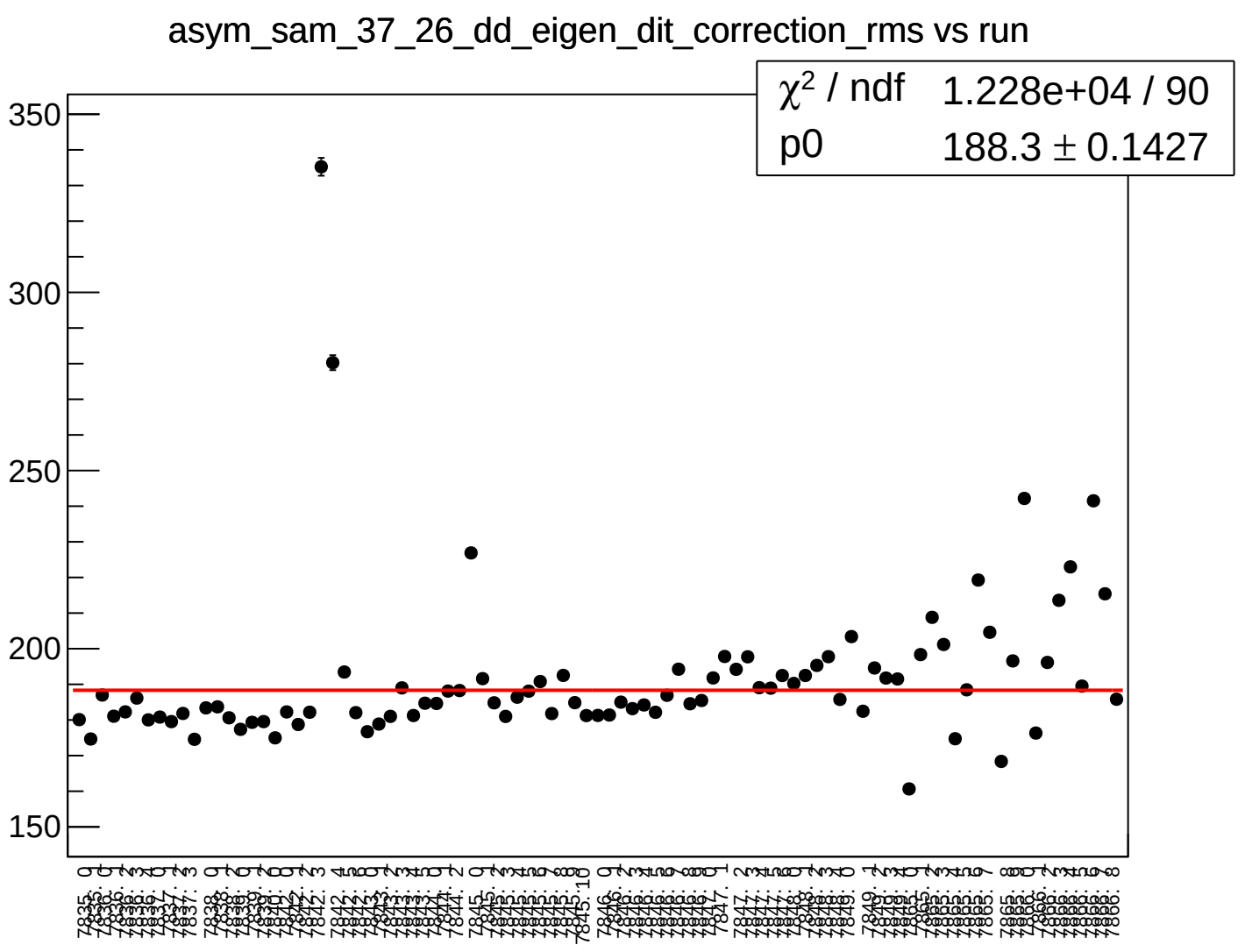

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.228e+04 / 90
p0 188.3 ± 0.1427
350
300
250
200
150

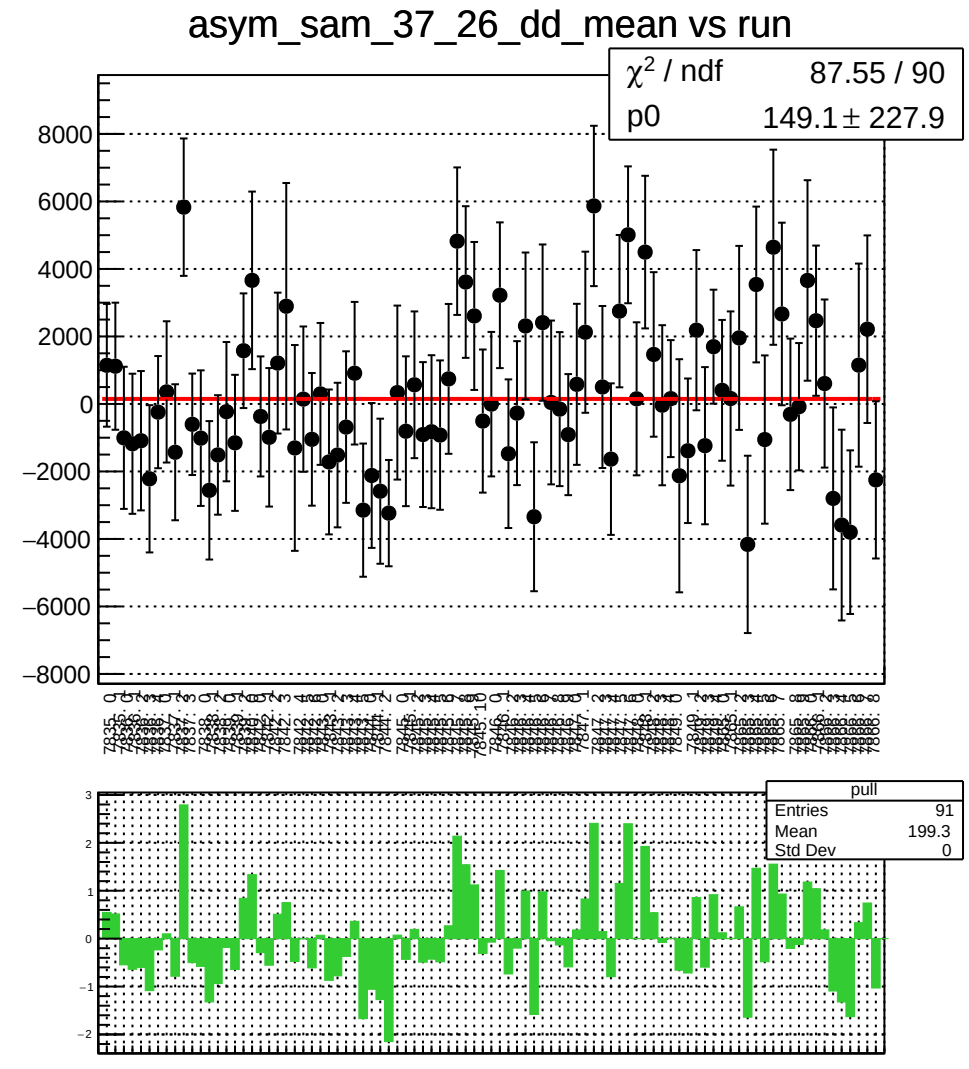

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 110.5 / 90
p0 −17.18 ± 75.22
pull
Entries 91
Mean 486.5
Std Dev 0
pull1D
Entries 91
Mean −0.001579
Std Dev 1.102

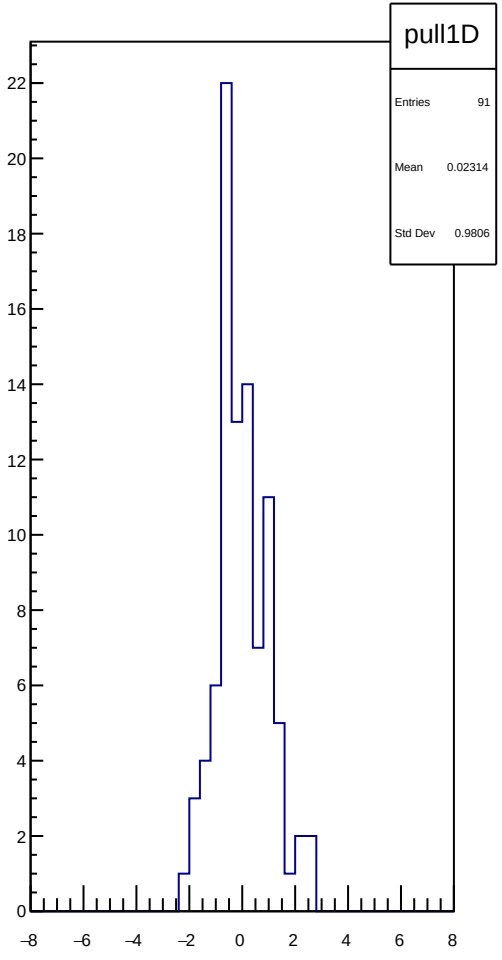

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 4.955e+04 / 90
p0 69.46 ± 0.05319
220
200
180
160
140
120
100
80
60
40

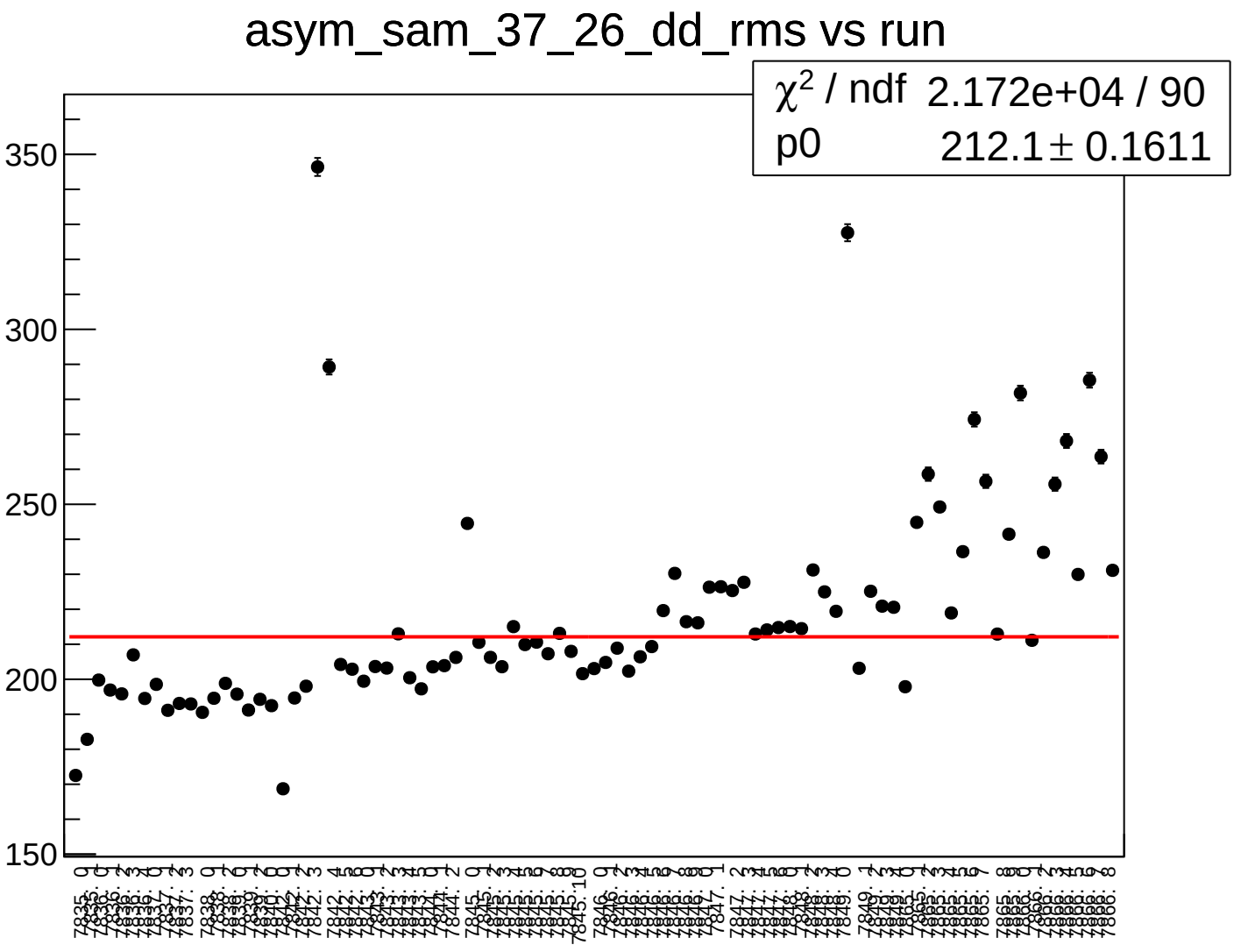

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.62 / 90
p0 −185.3 ± 201.8
pull
Entries 91
Mean 253.3
Std Dev 0

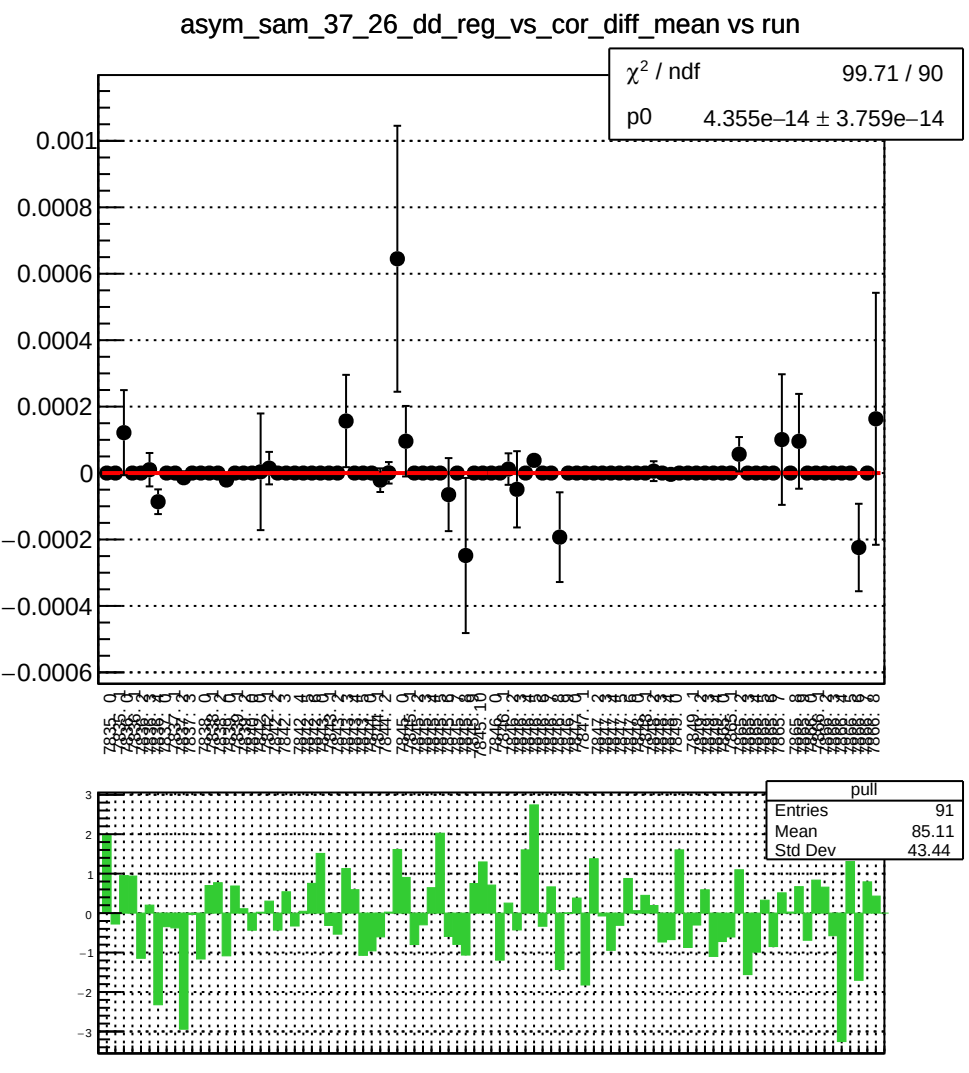

pull1D
Entries 91
Mean −0.02093
Std Dev 0.9641

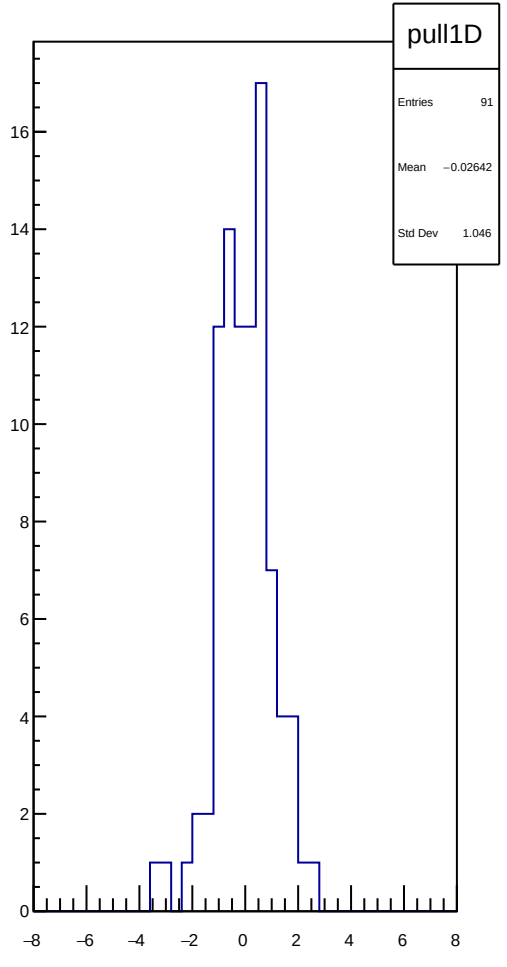

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.228e+04 / 90
p0 188.3 ± 0.1427
350
300
250
200
150

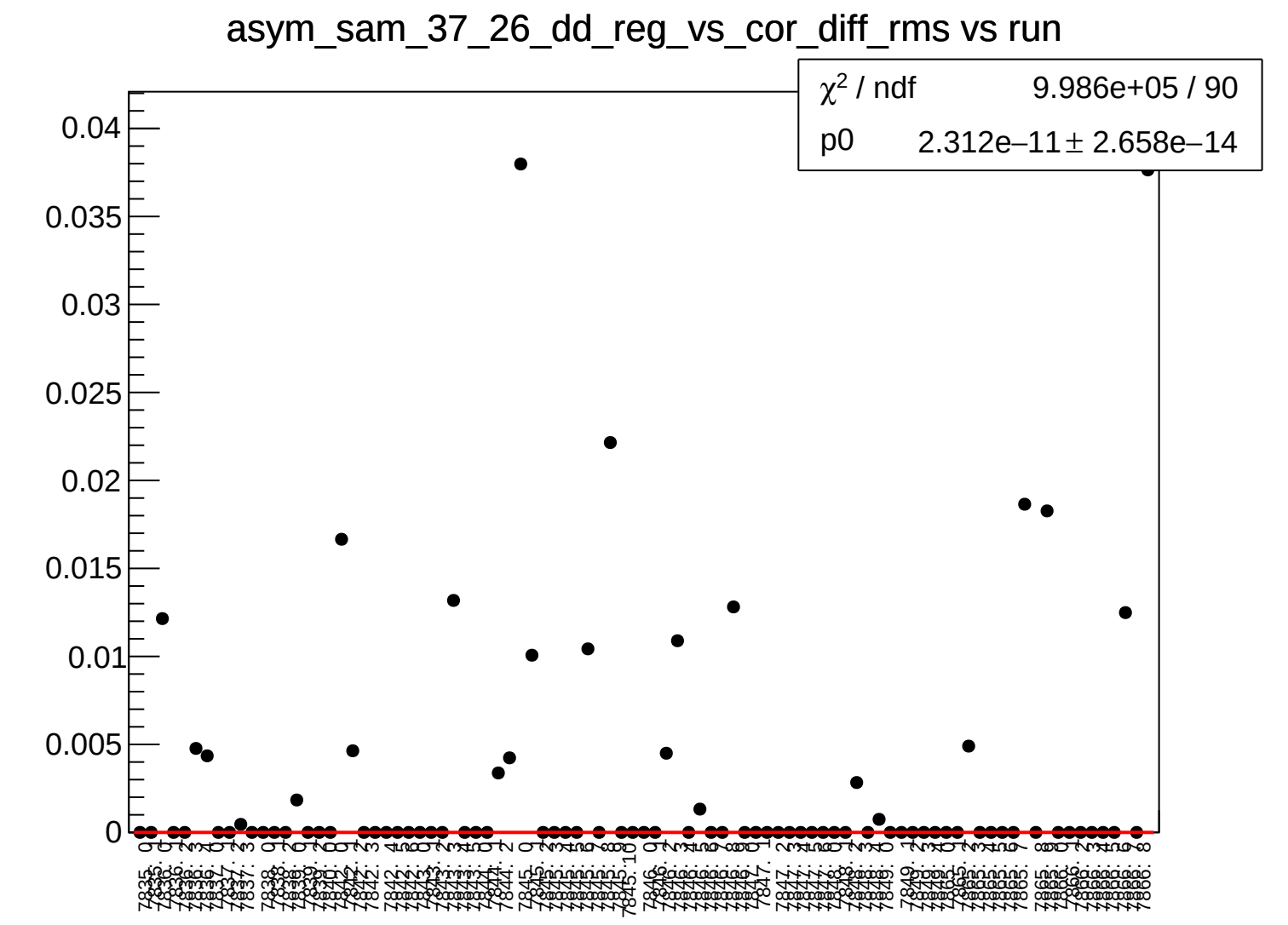

asym_sam_37_26_dd_mean vs run
χ² / ndf 87.55 / 90
p0 149.1 ± 227.9
pull
Entries 91
Mean 199.3
Std Dev 0

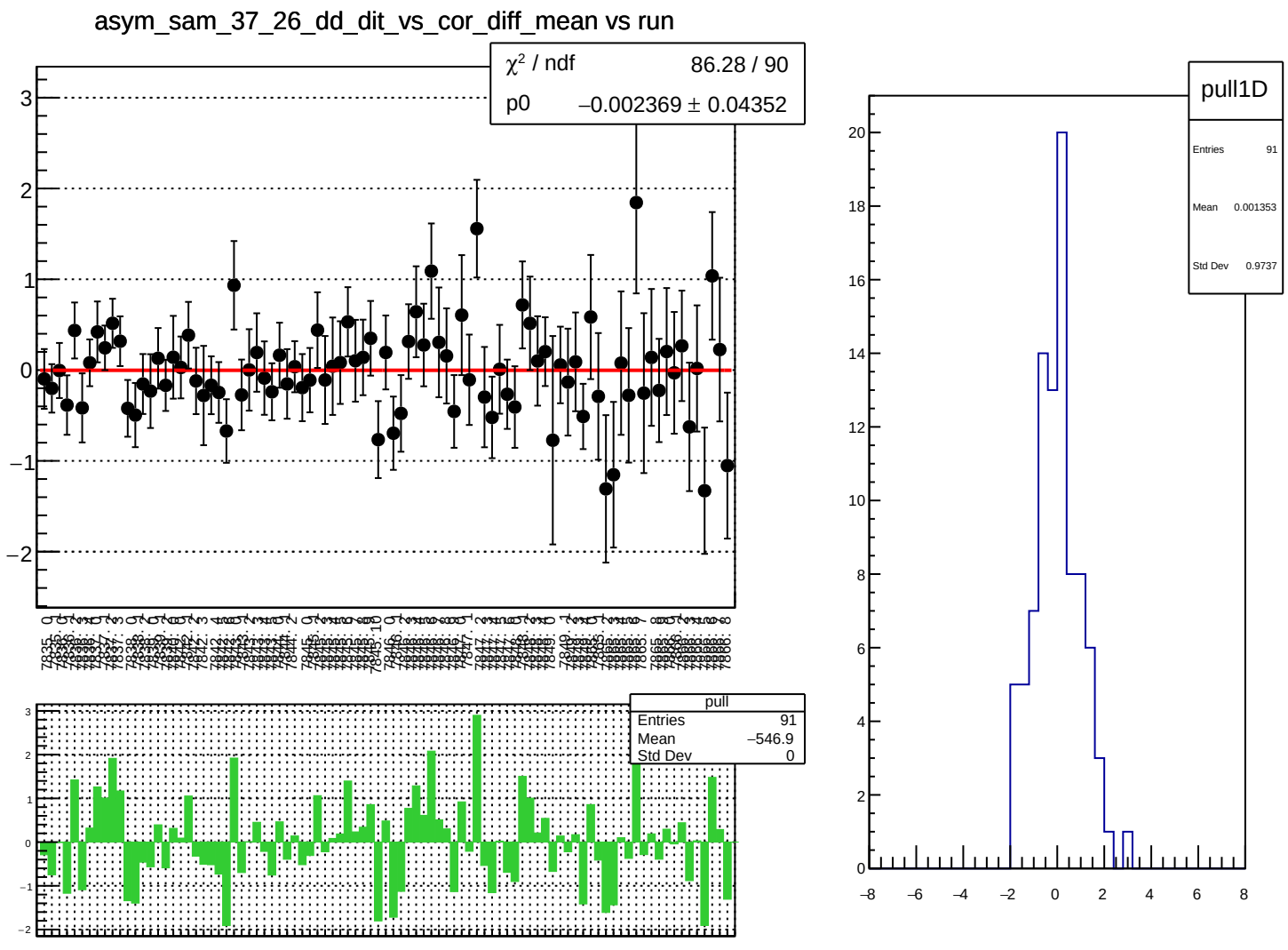

pull1D
Entries 91
Mean 0.02314
Std Dev 0.9806

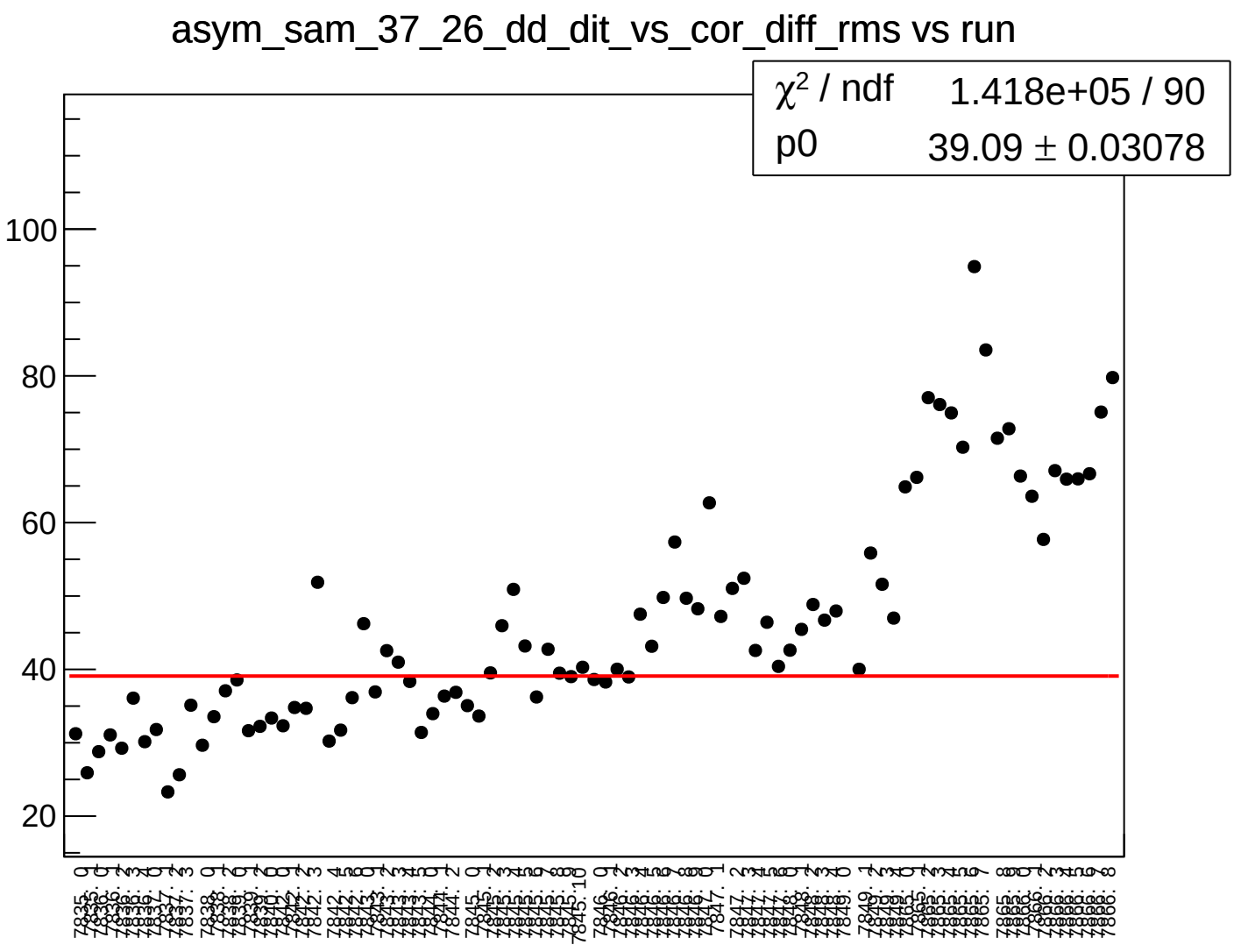

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.172e+04 / 90
p0 212.1 ± 0.1611
350
300
250
200
150

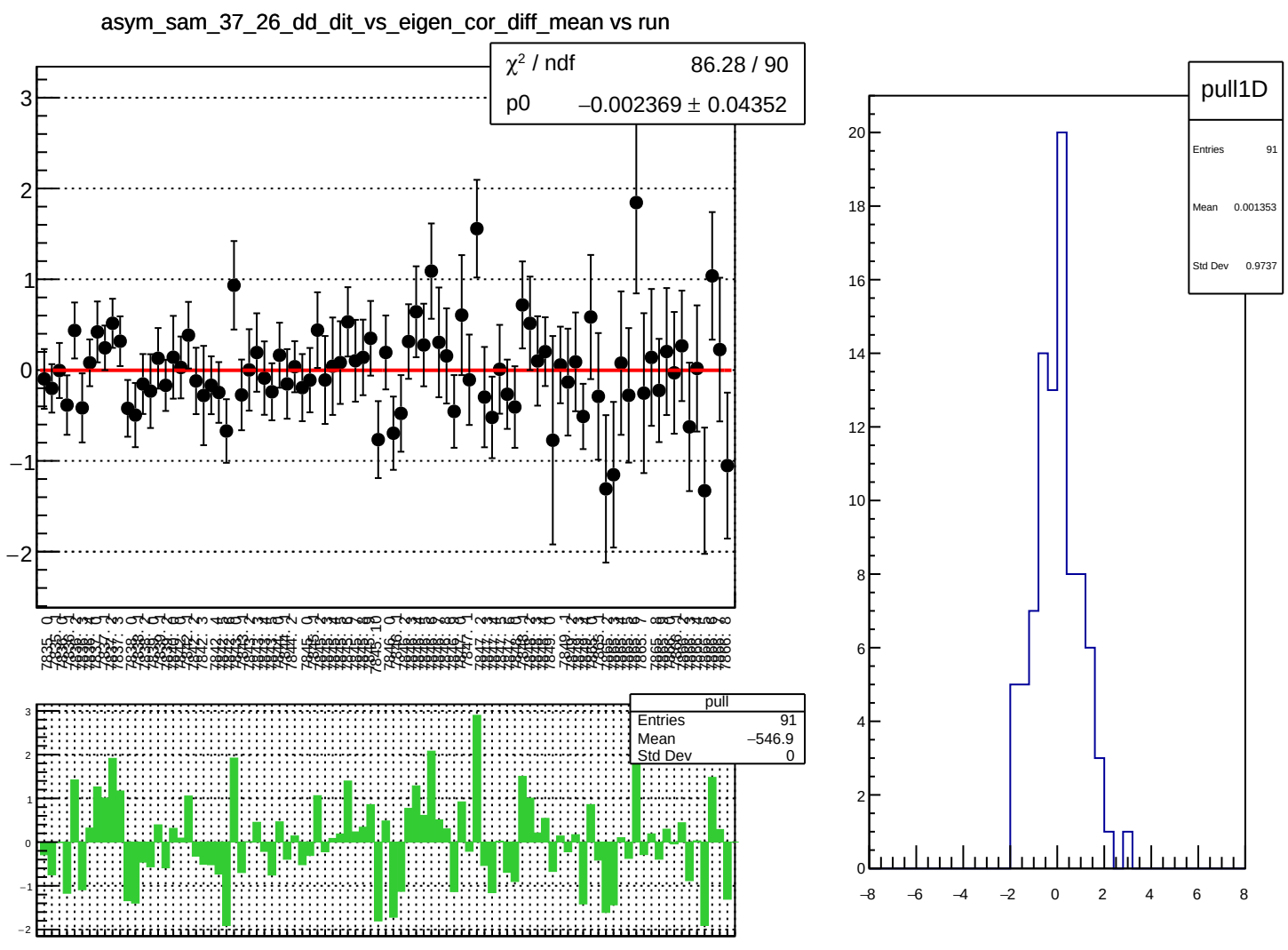

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.71 / 90
p0 4.355e−14 ± 3.759e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 91
Mean 85.11
Std Dev 43.44
3
2
1
0
−1
−2
−3

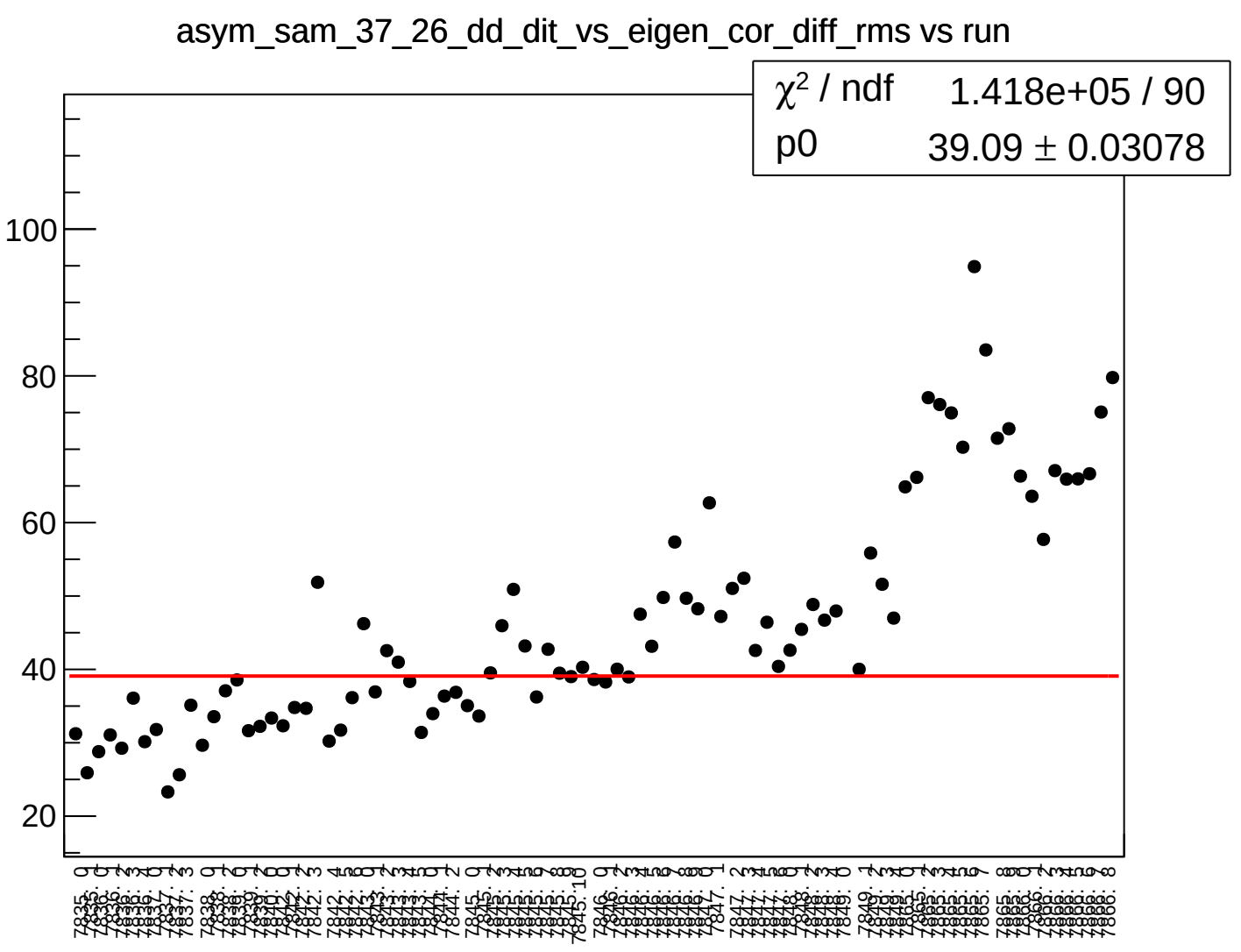

pull1D
Entries 91
Mean −0.02642
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

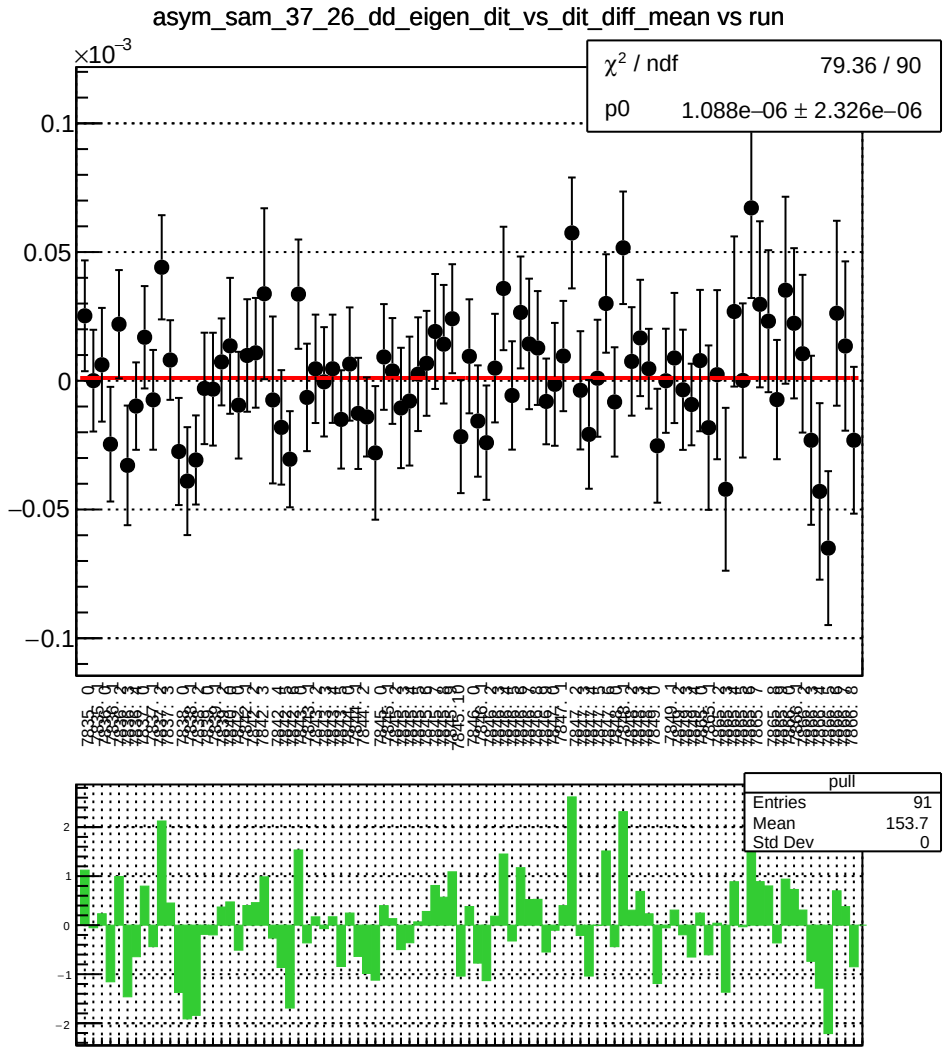

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.986e+05 / 90
p0 2.312e−11 ± 2.658e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

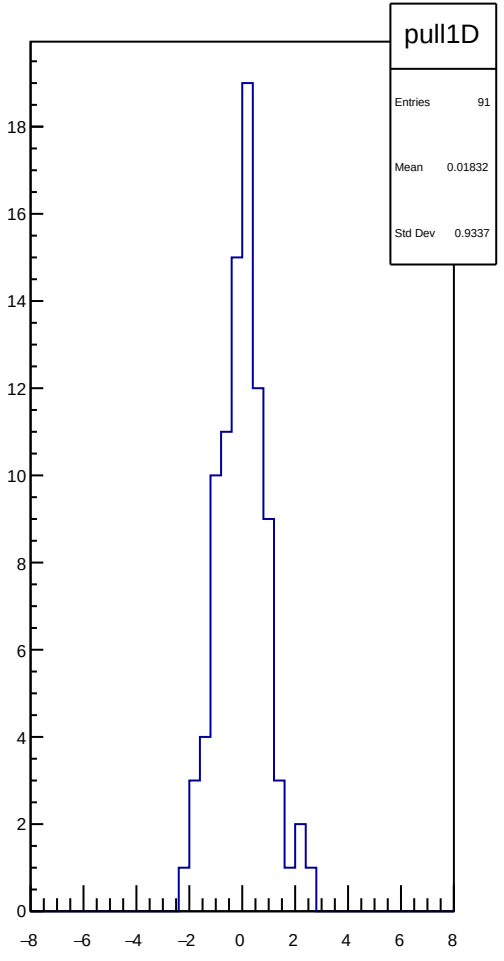

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 90
p0 −0.002369 ± 0.04352
pull
Entries 91
Mean −546.9
Std Dev 0
pull1D
Entries 91
Mean 0.001353
Std Dev 0.9737

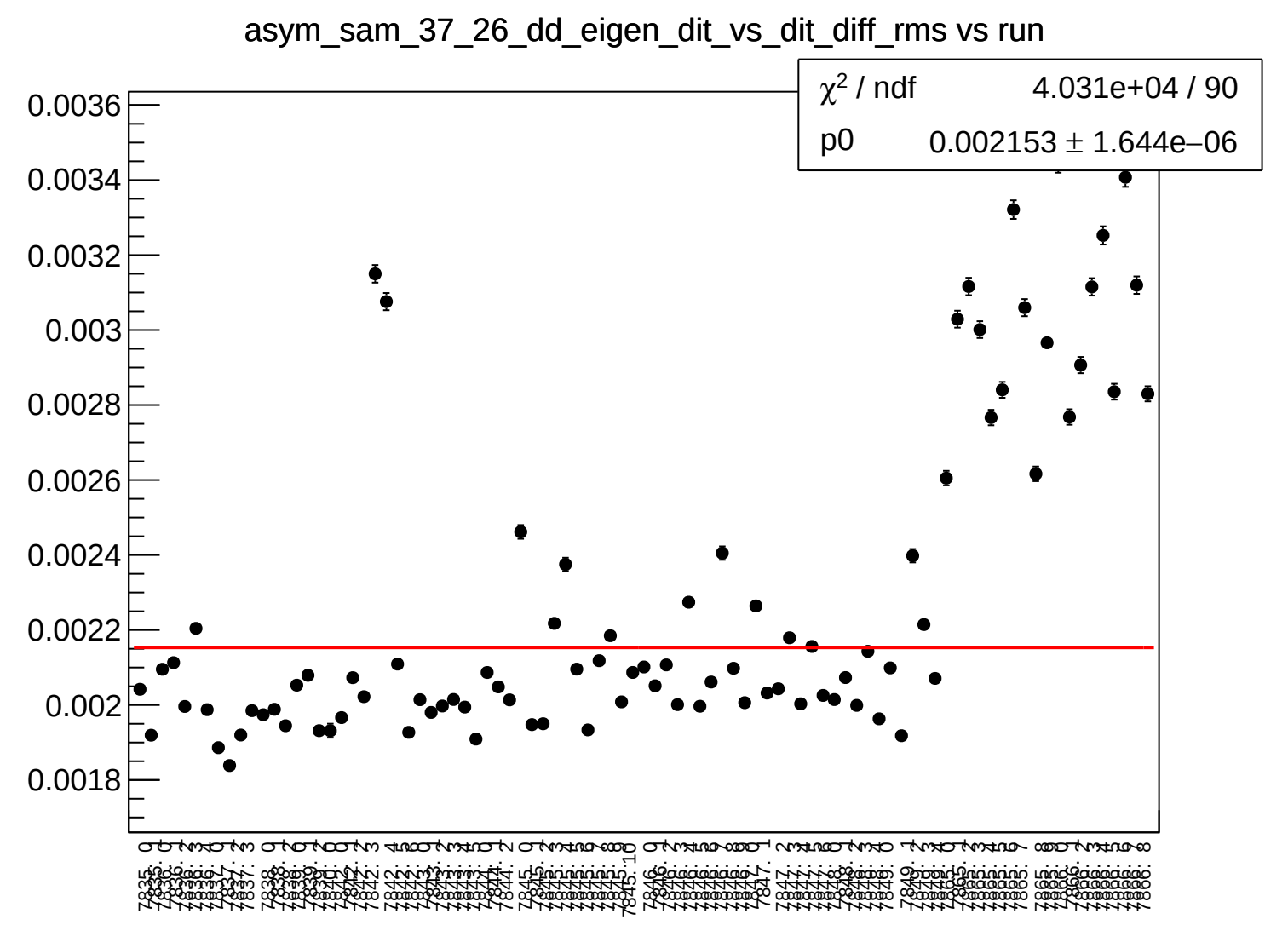

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 90
p0 39.09 ± 0.03078
100
80
60
40
20

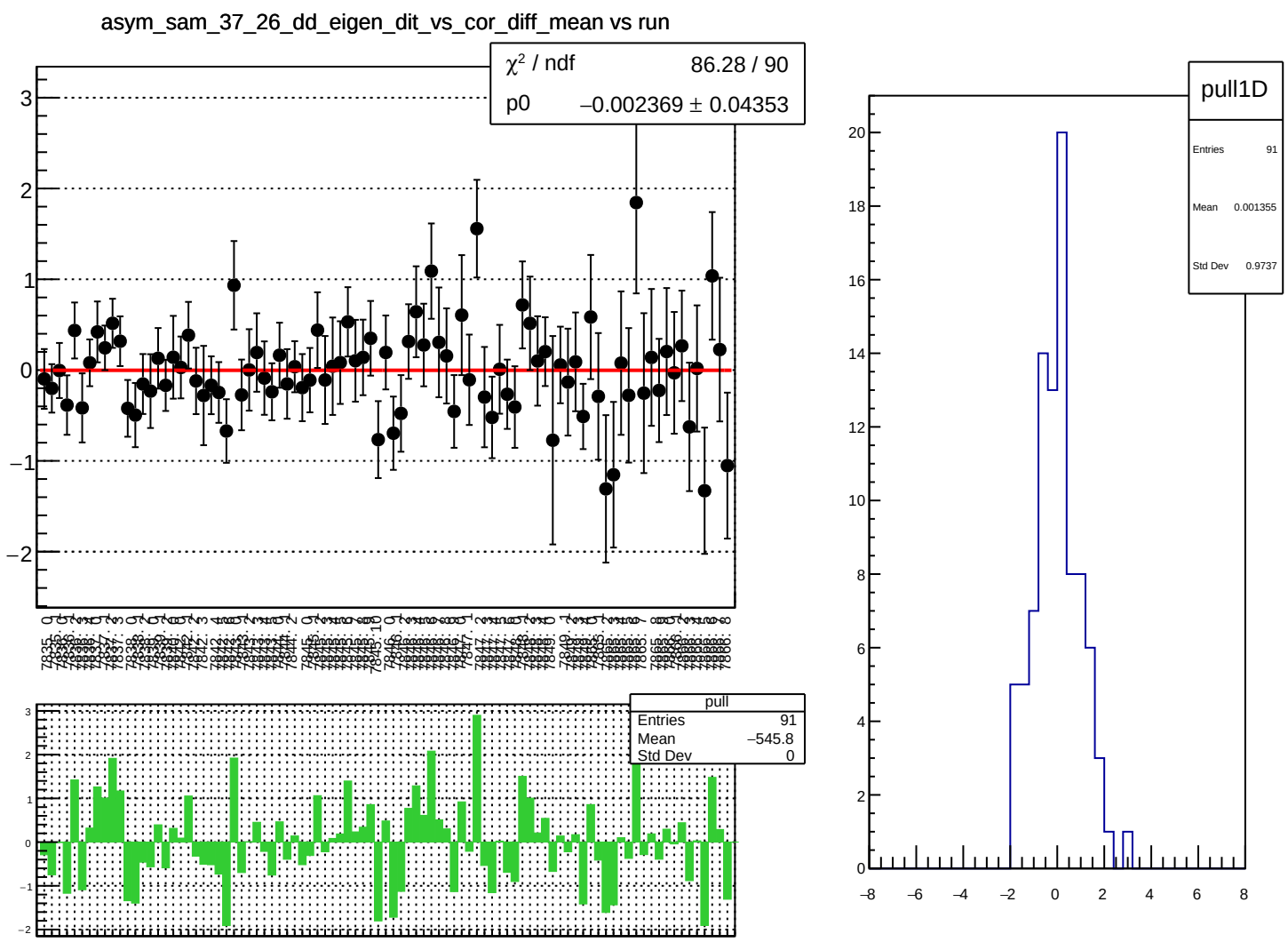

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.28 / 90
p0 −0.002369 ± 0.04352
pull
Entries 91
Mean −546.9
Std Dev 0
pull1D
Entries 91
Mean 0.001353
Std Dev 0.9737

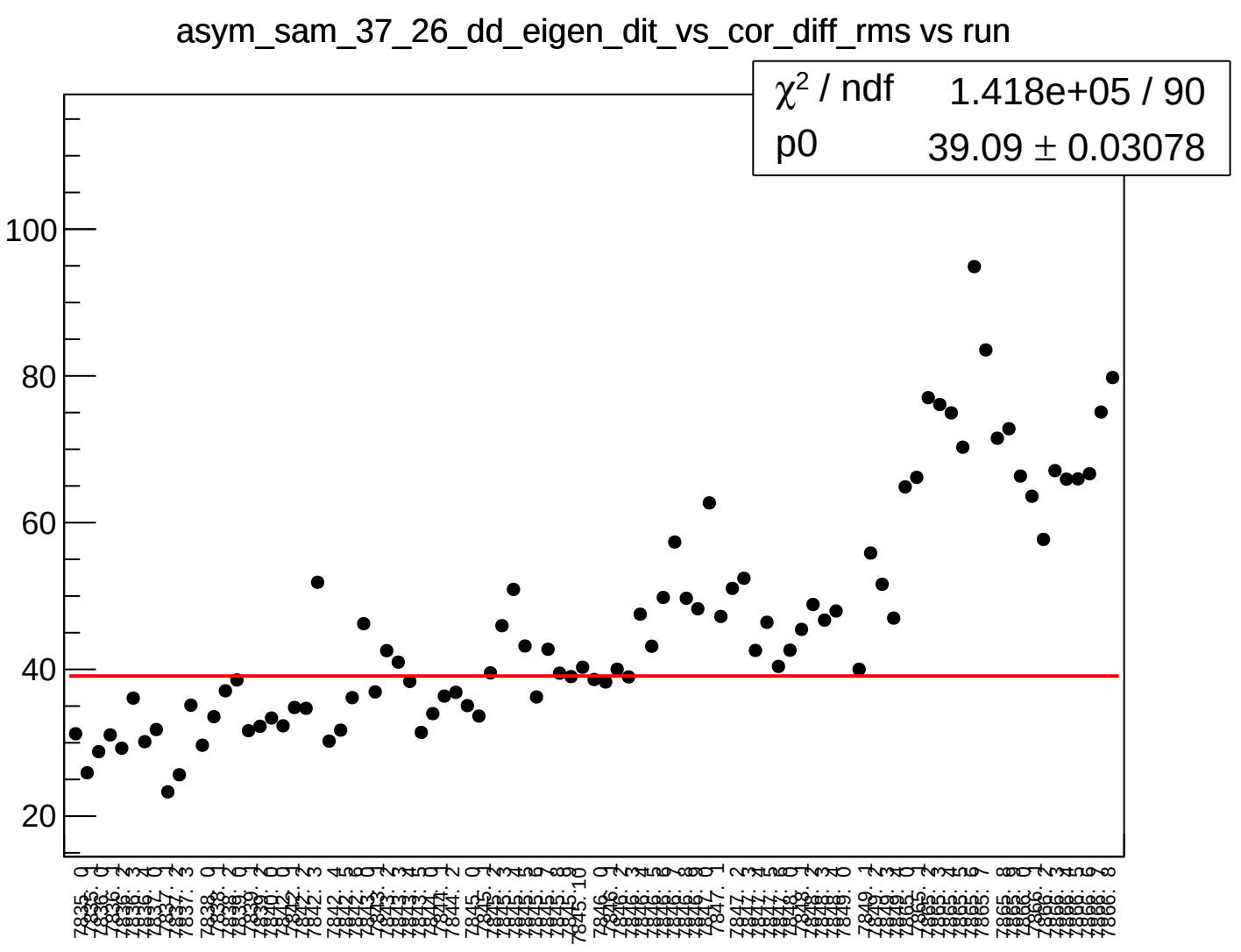

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 90
p0 39.09 ± 0.03078
100
80
60
40
20

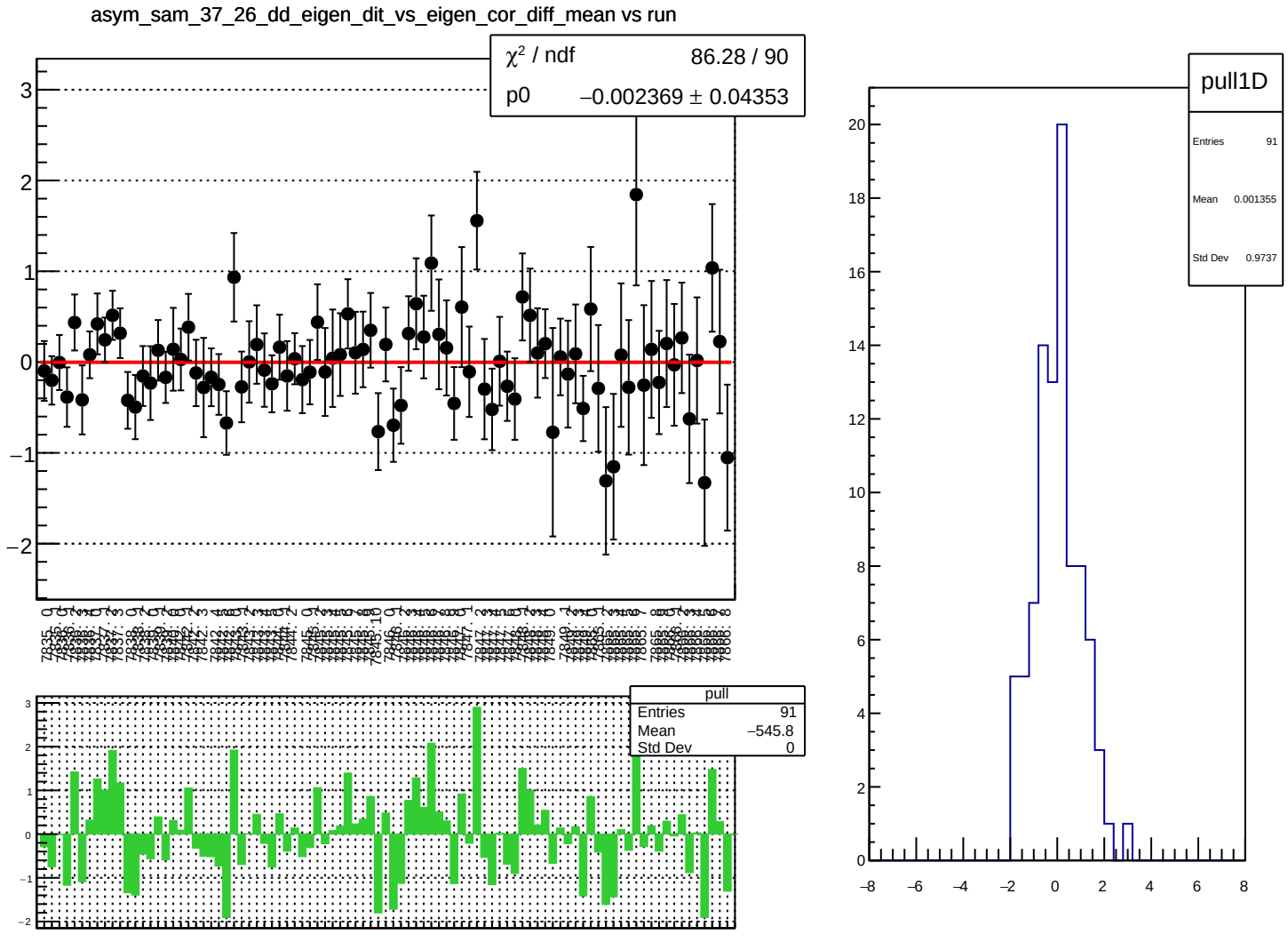

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.36 / 90
p0 1.088e−06 ± 2.326e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 153.7
Std Dev 0
2
1
0
−1
−2

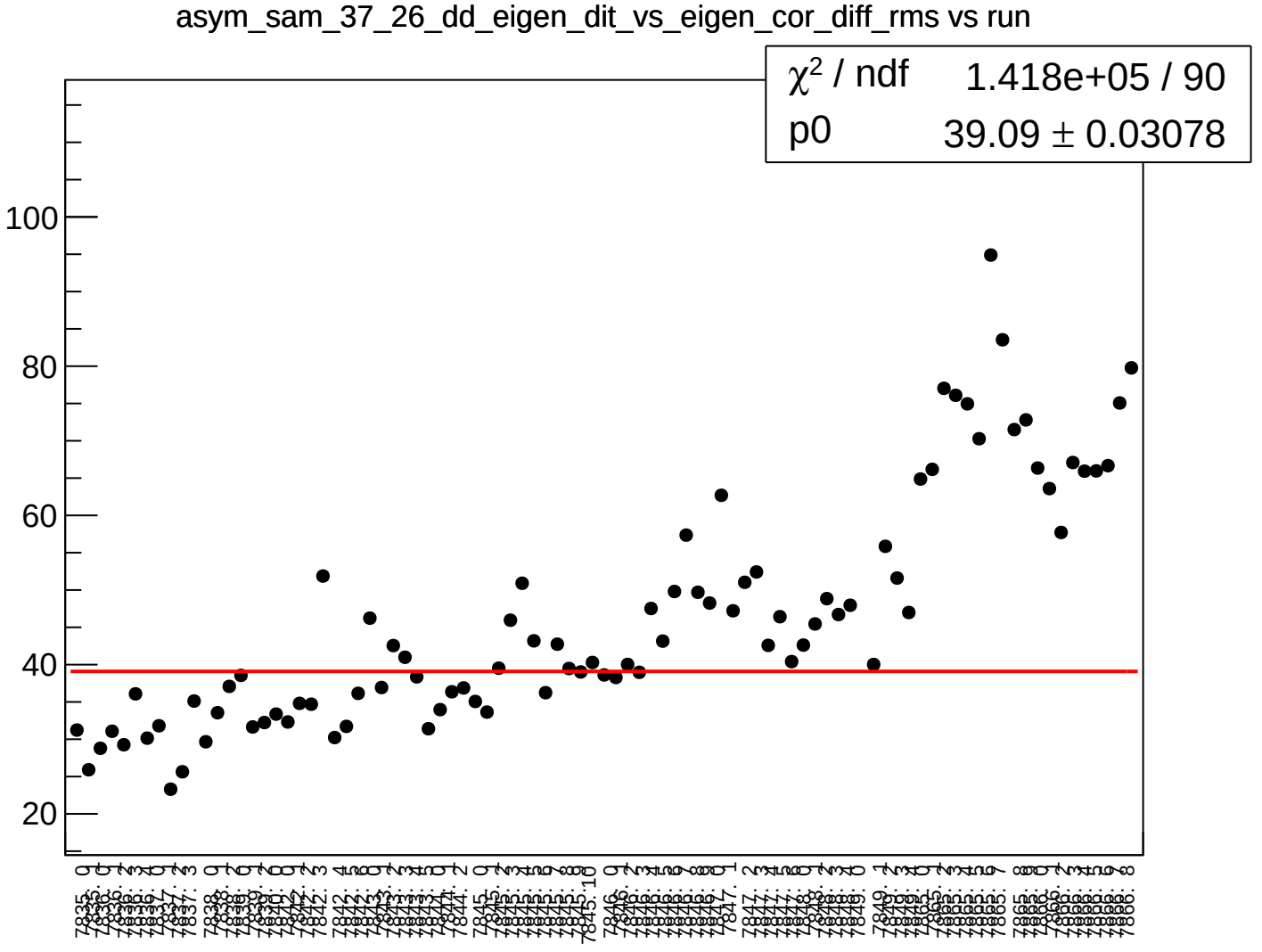

pull1D
Entries 91
Mean 0.01832
Std Dev 0.9337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

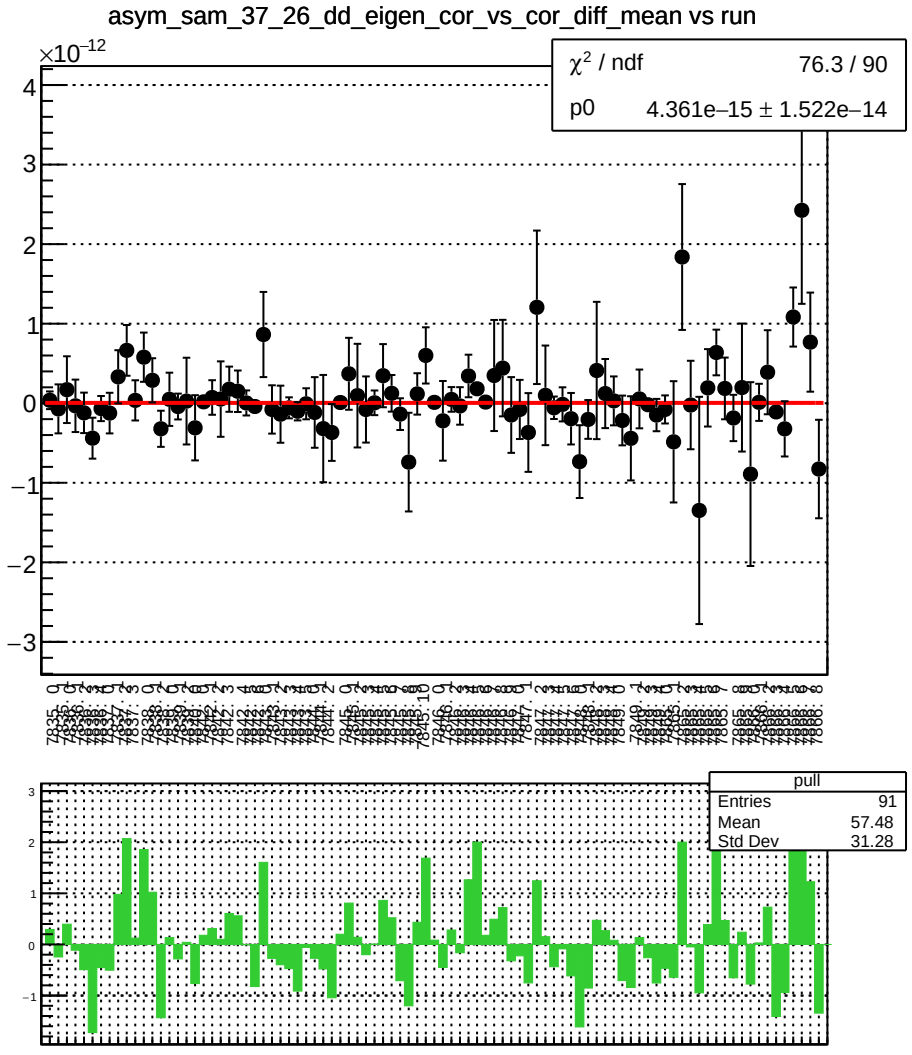

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.031e+04 / 90
p0 0.002153 ± 1.644e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

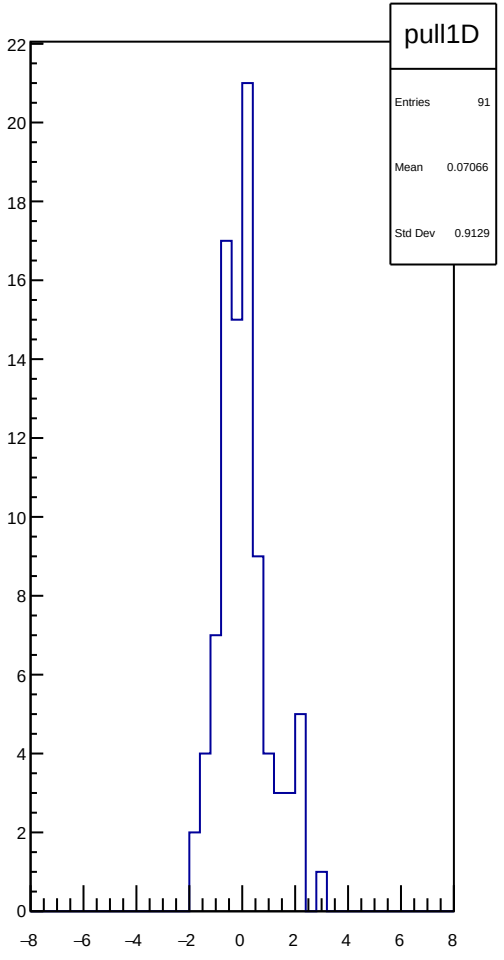

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 90
p0 −0.002369 ± 0.04353
pull
Entries 91
Mean −545.8
Std Dev 0
pull1D
Entries 91
Mean 0.001355
Std Dev 0.9737

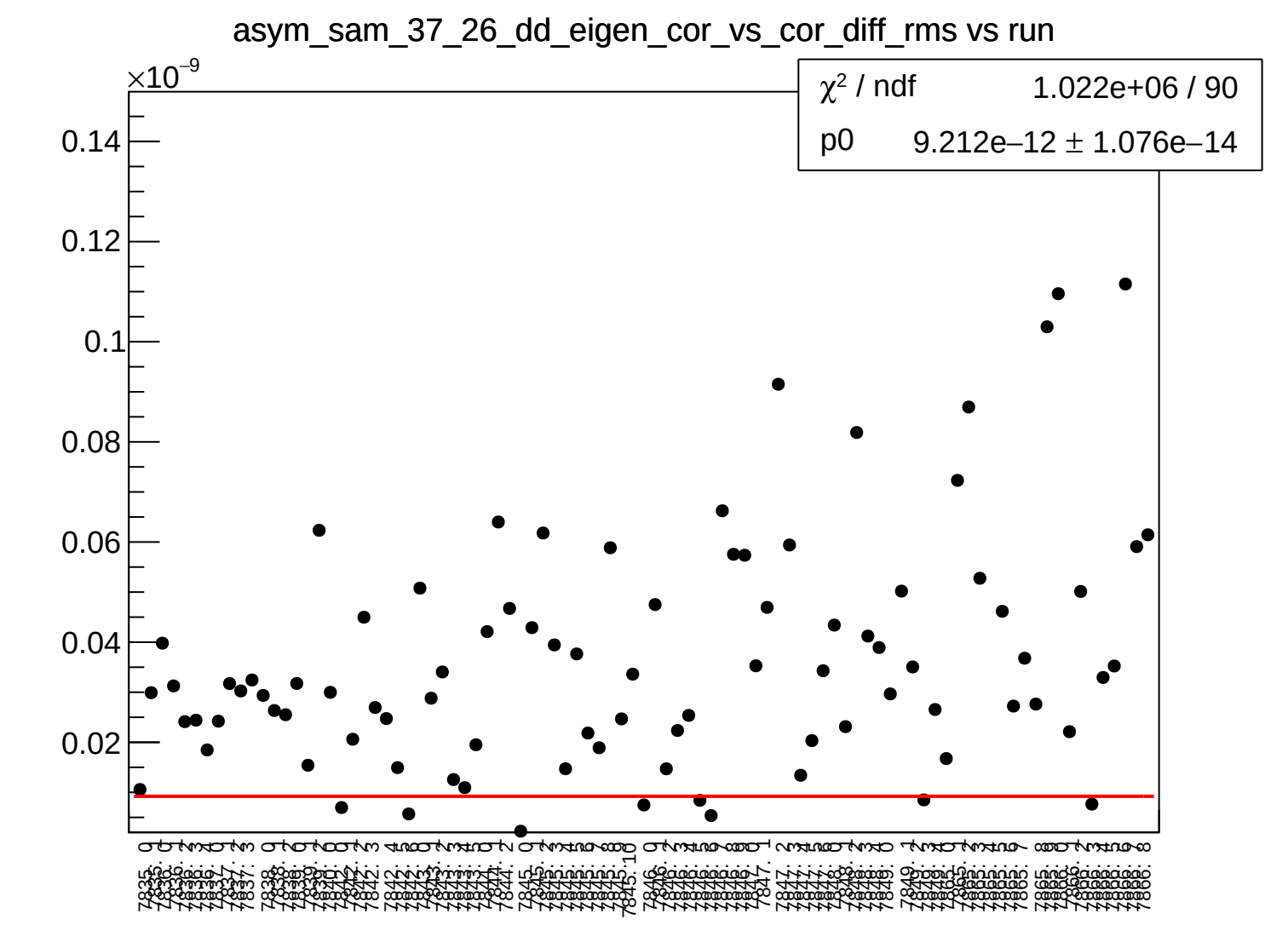

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 90
p0 39.09 ± 0.03078
100
80
60
40
20

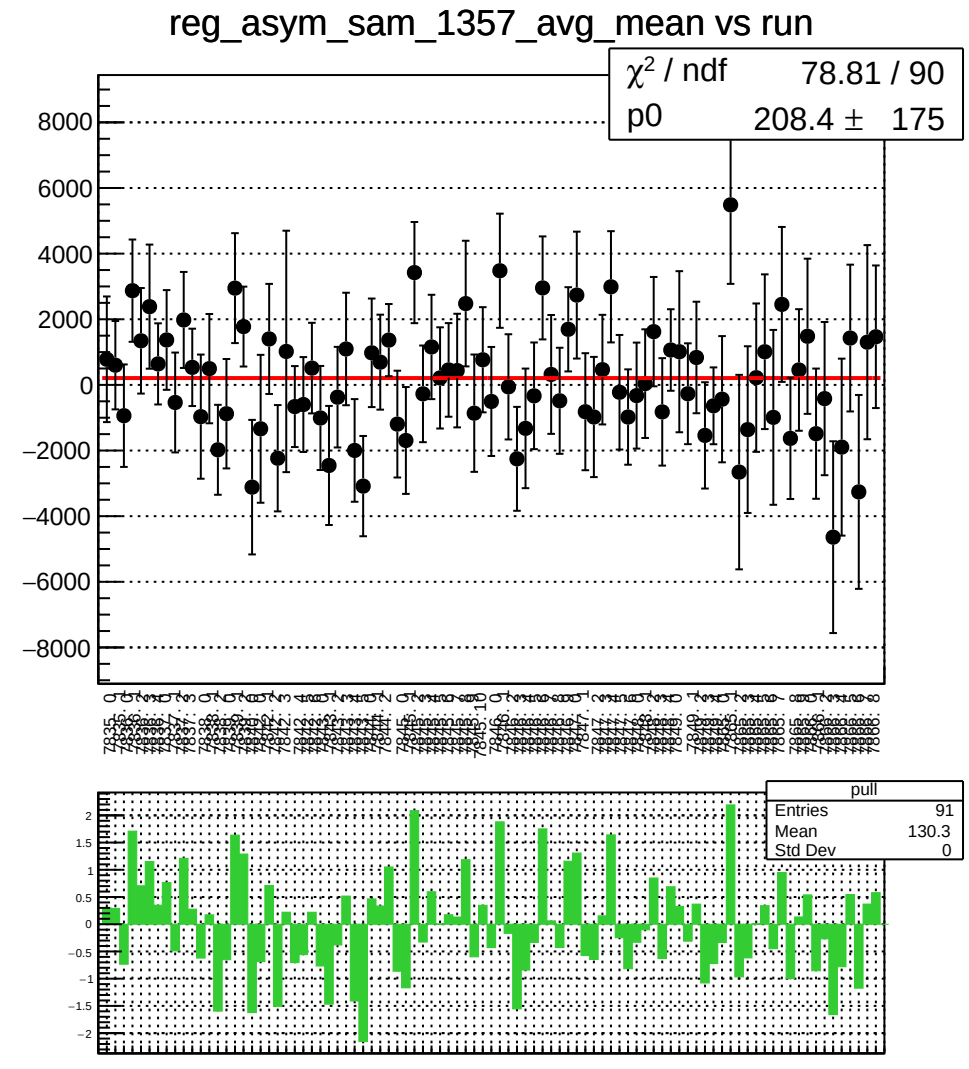

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.28 / 90
p0 −0.002369 ± 0.04353
pull
Entries 91
Mean −545.8
Std Dev 0
pull1D
Entries 91
Mean 0.001355
Std Dev 0.9737

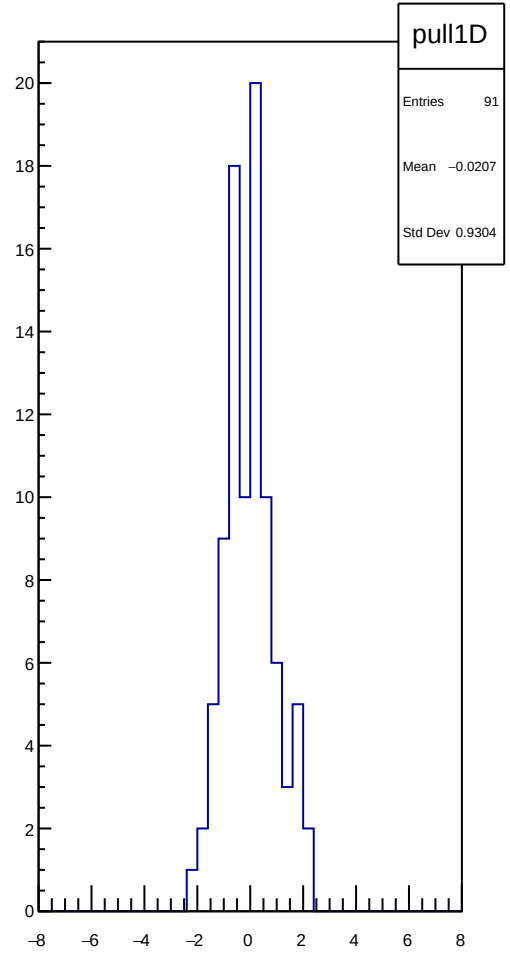

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 90
p0 39.09 ± 0.03078
100
80
60
40
20

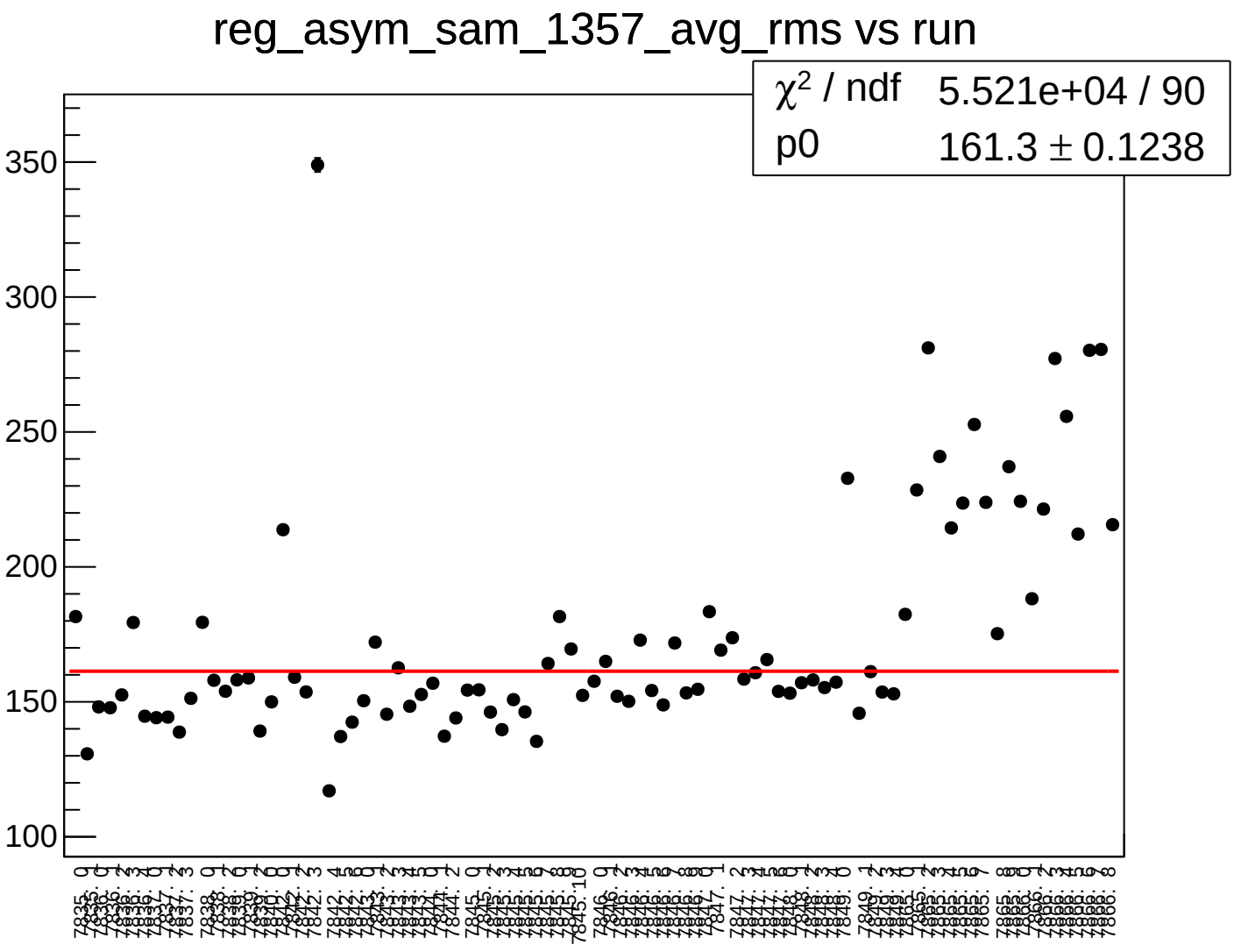

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.3 / 90
p0 4.361e−15 ± 1.522e−14
pull
Entries 91
Mean 57.48
Std Dev 31.28

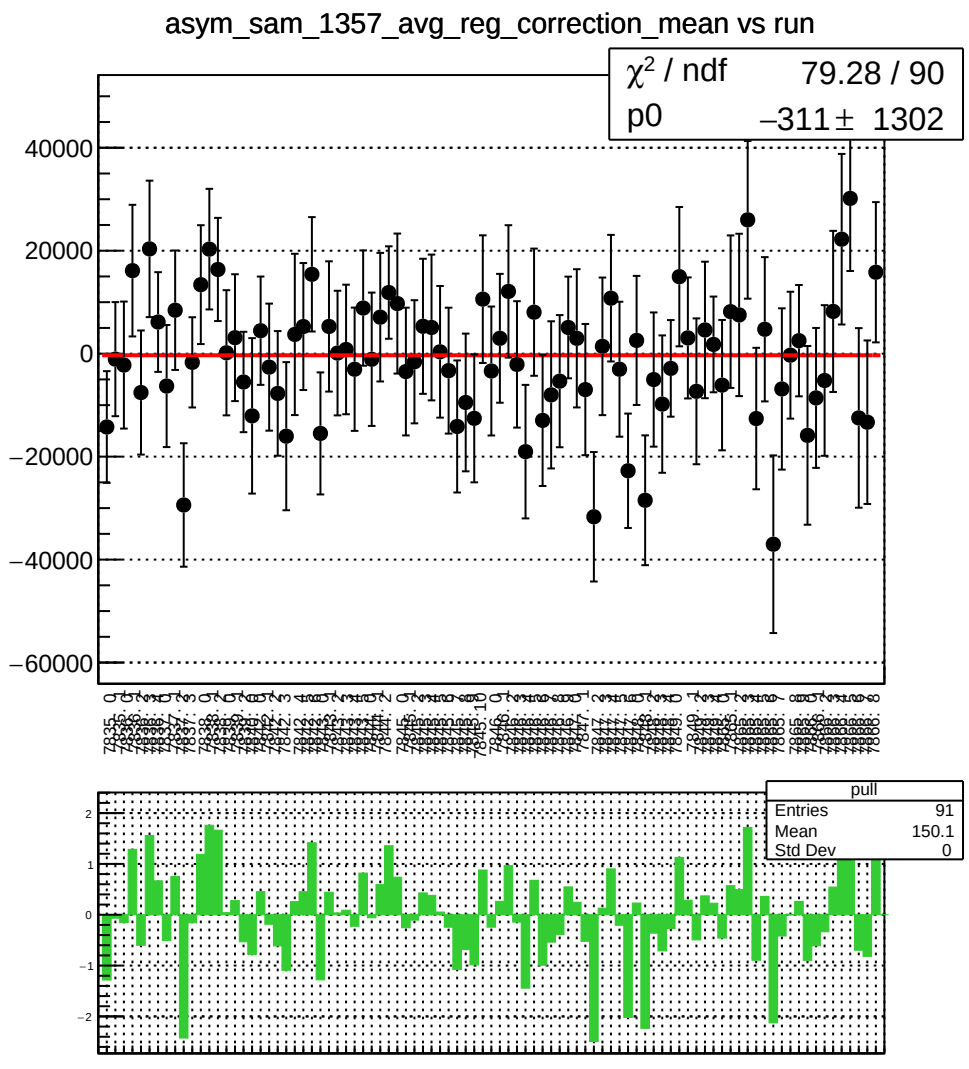

pull1D
Entries 91
Mean 0.07066
Std Dev 0.9129

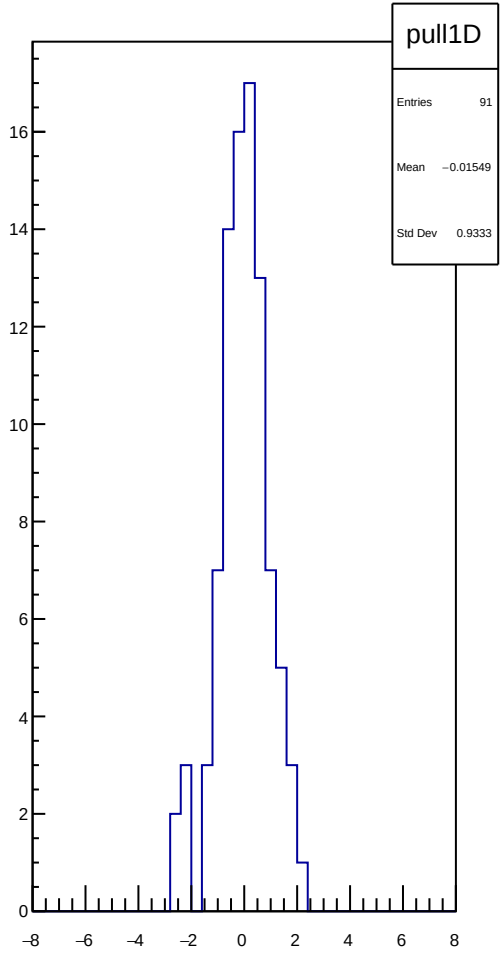

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.022e+06 / 90
p0 9.212e−12 ± 1.076e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

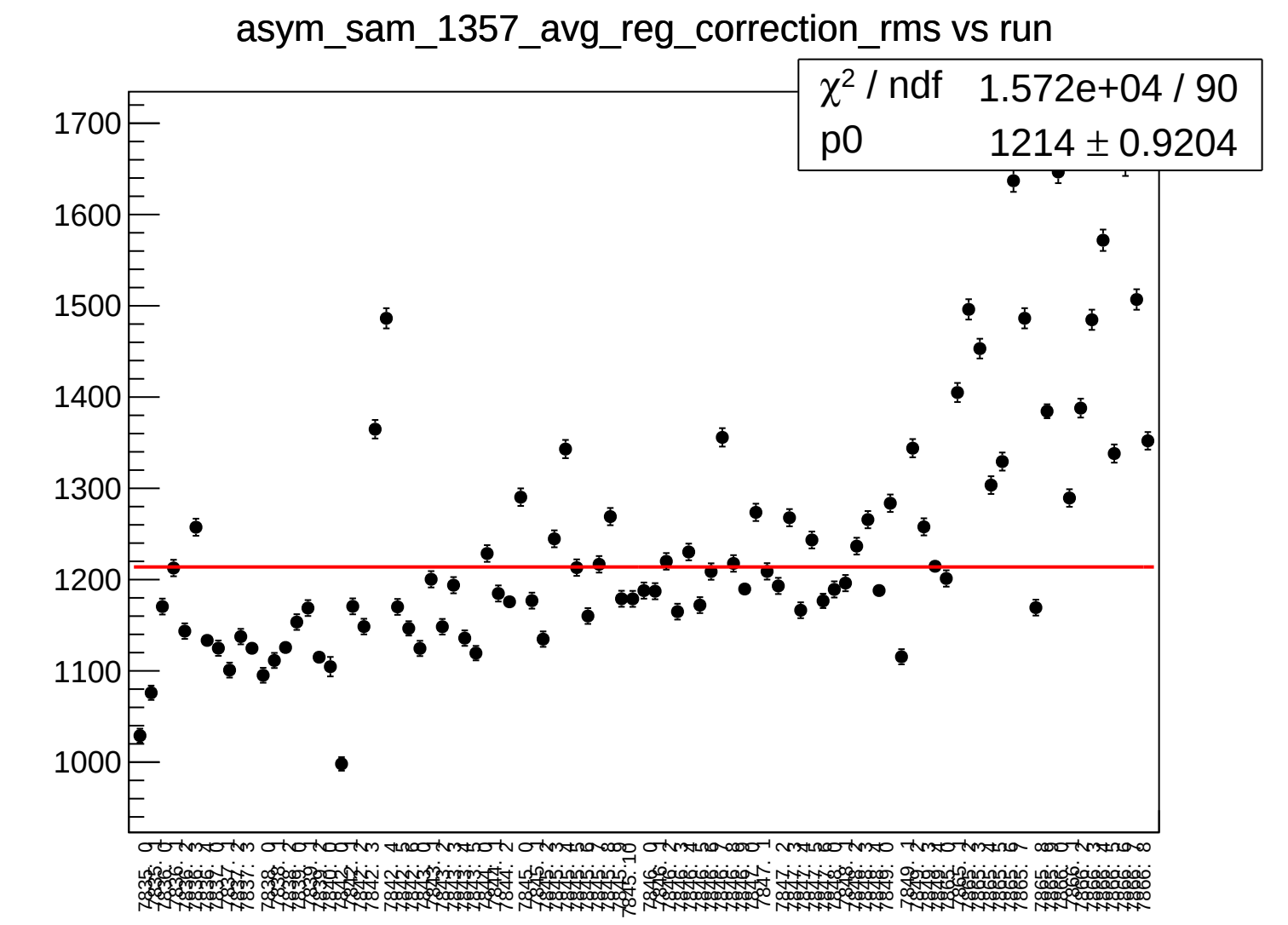

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 78.81 / 90
p0 208.4 ± 175
pull
Entries 91
Mean 130.3
Std Dev 0

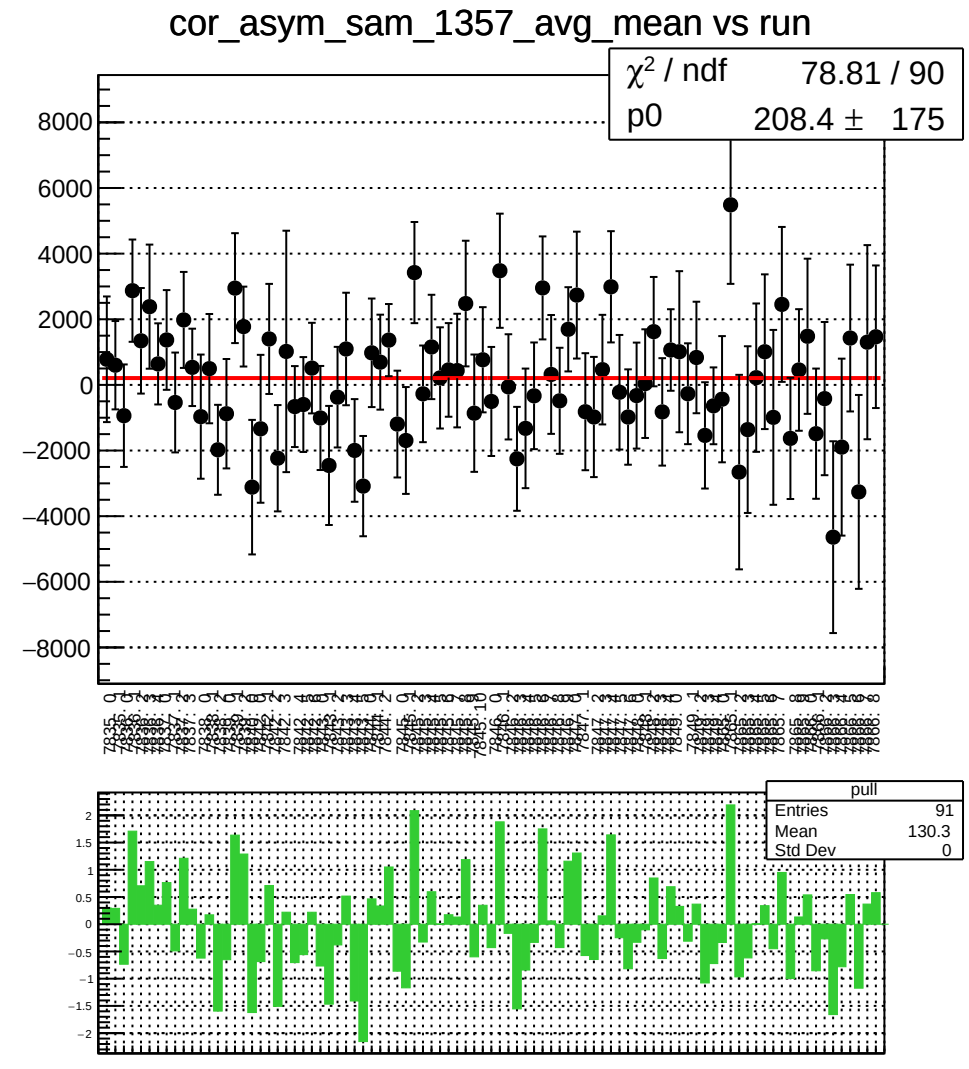

pull1D
Entries 91
Mean −0.0207
Std Dev 0.9304

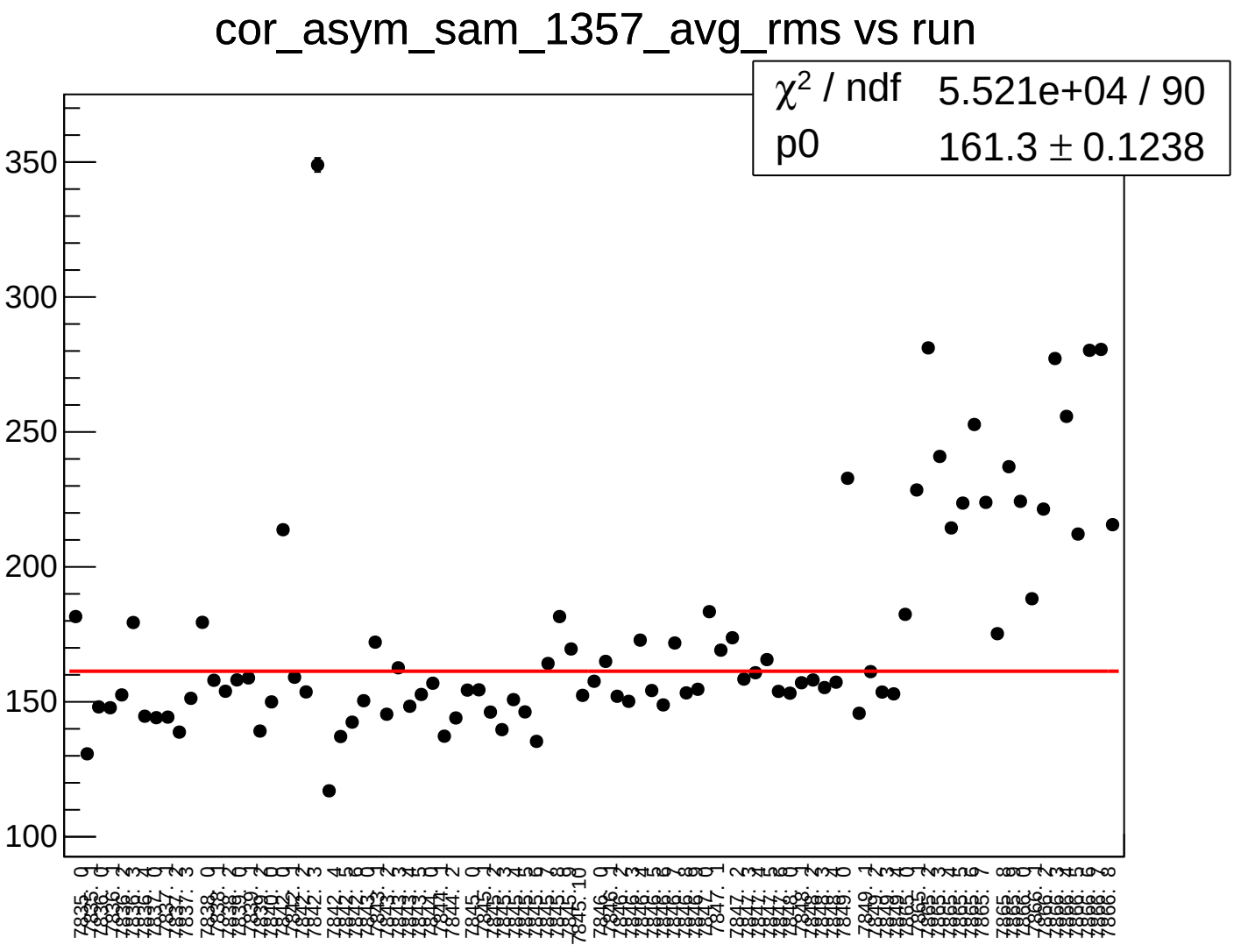

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 5.521e+04 / 90
p0 161.3 ± 0.1238
350
300
250
200
150
100

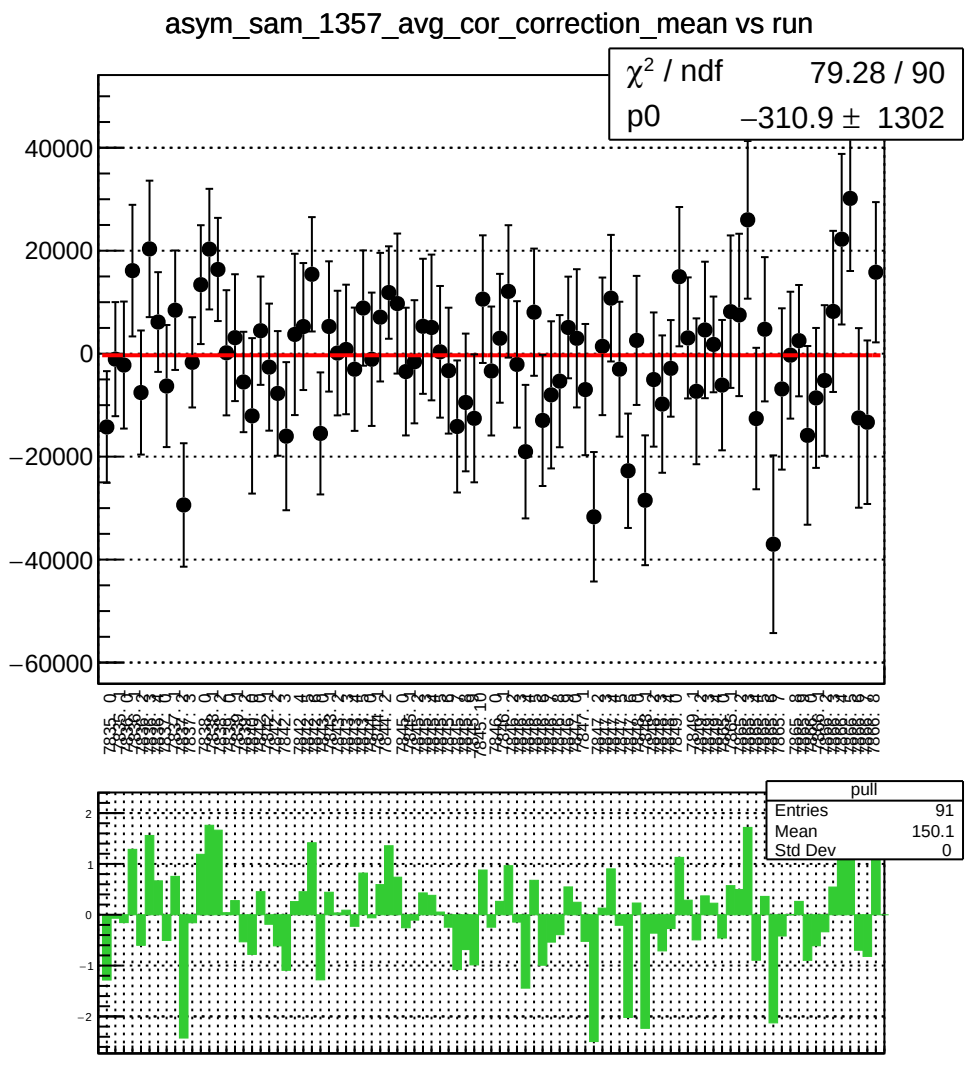

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 79.28 / 90
p0 −311 ± 1302
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 150.1
Std Dev 0
2
1
0
−1
−2

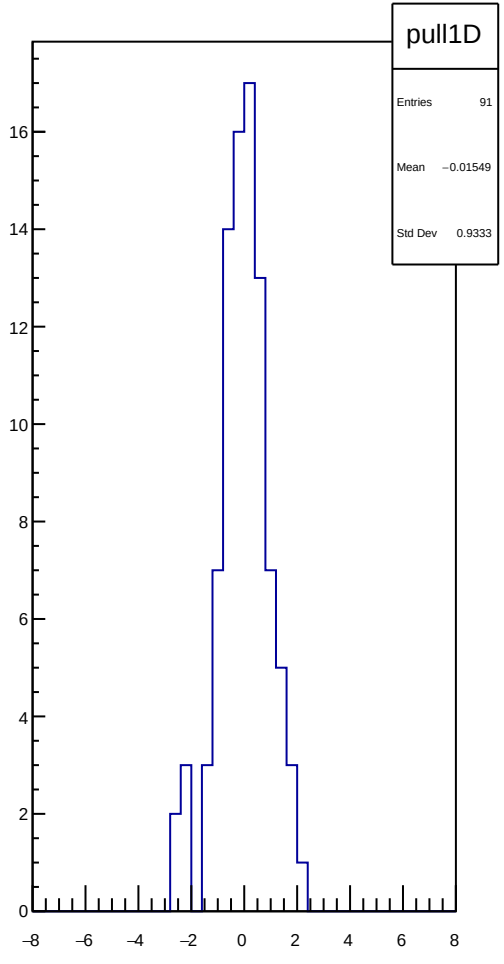

pull1D
Entries 91
Mean −0.01549
Std Dev 0.9333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

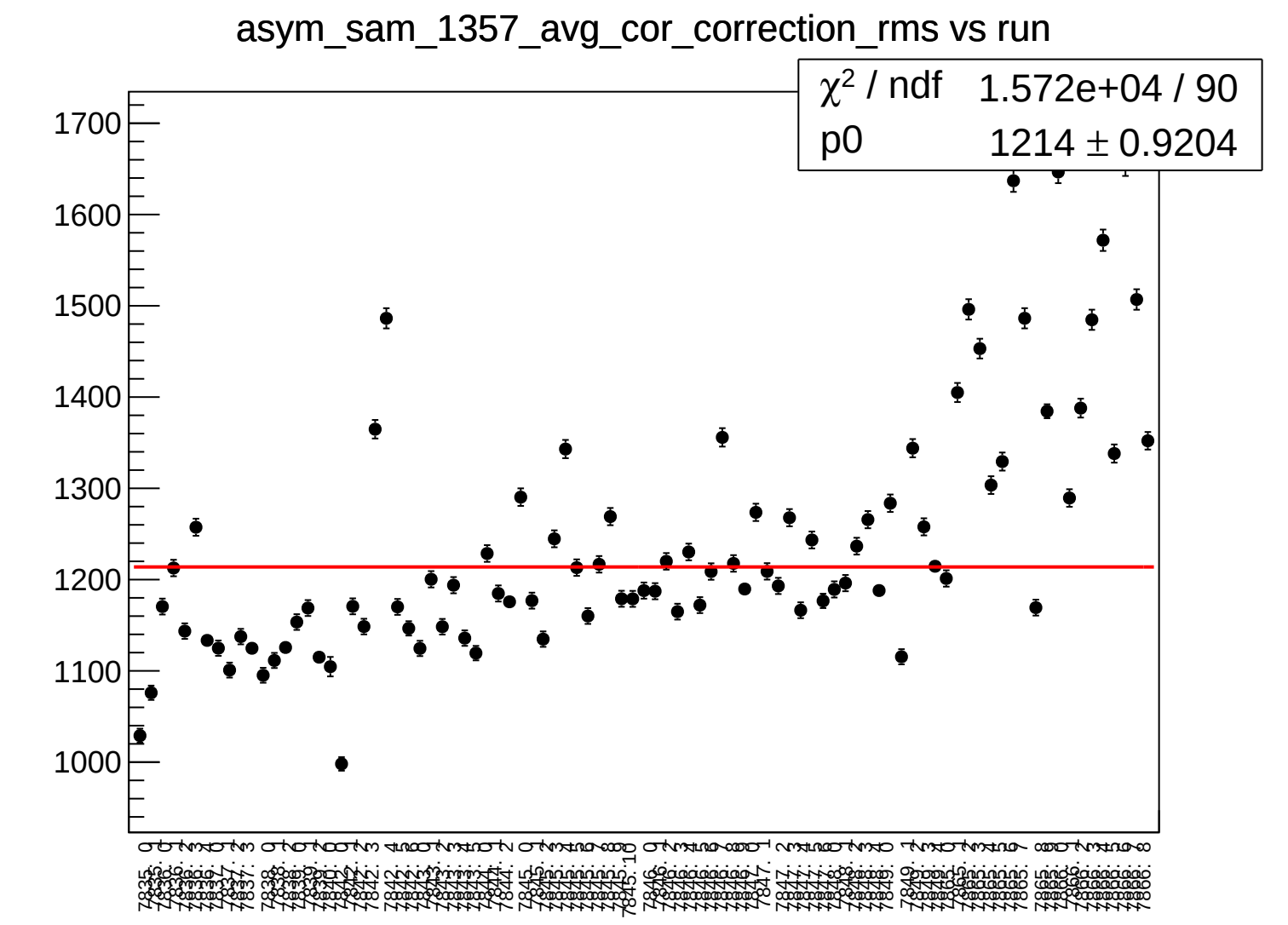

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.572e+04 / 90
p0 1214 ± 0.9204
1700
1600
1500
1400
1300
1200
1100
1000

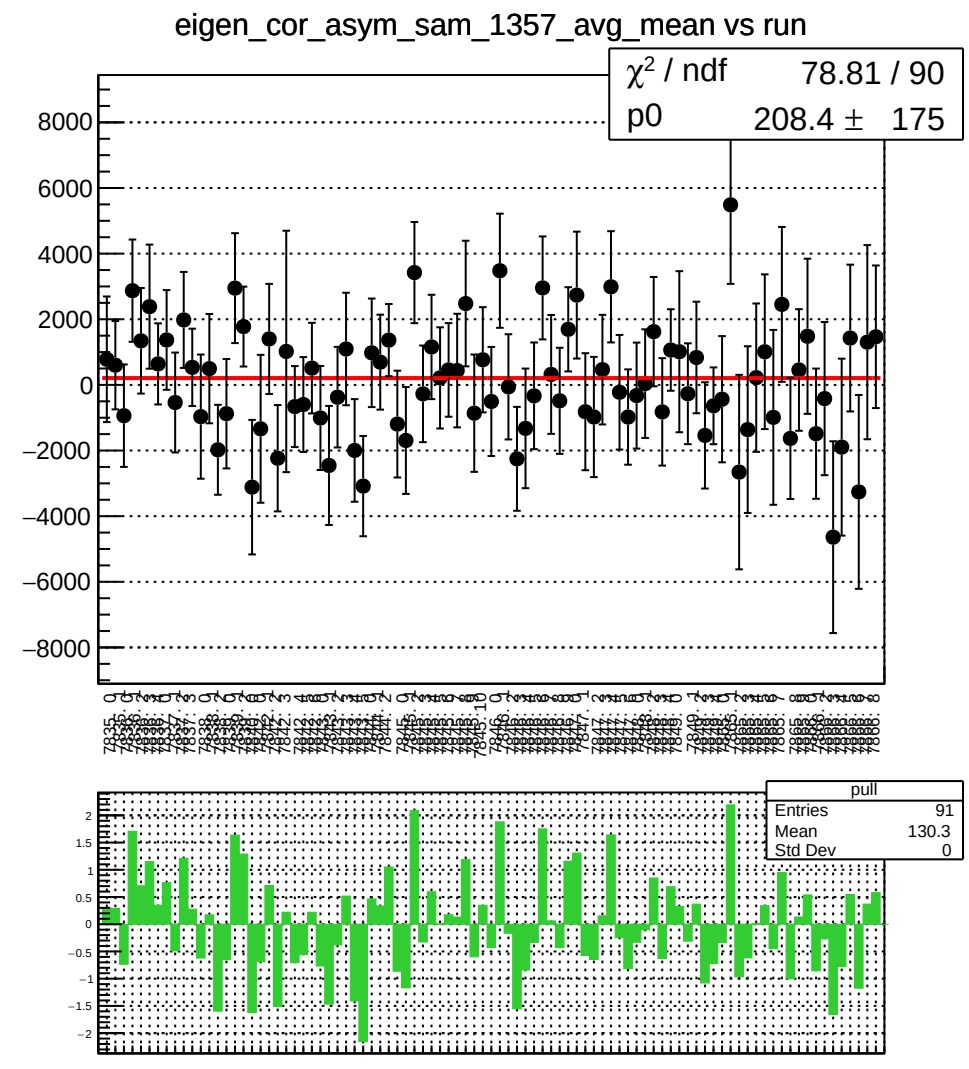

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 78.81 / 90
p0 208.4 ± 175
pull
Entries 91
Mean 130.3
Std Dev 0
pull1D
Entries 91
Mean −0.0207
Std Dev 0.9304

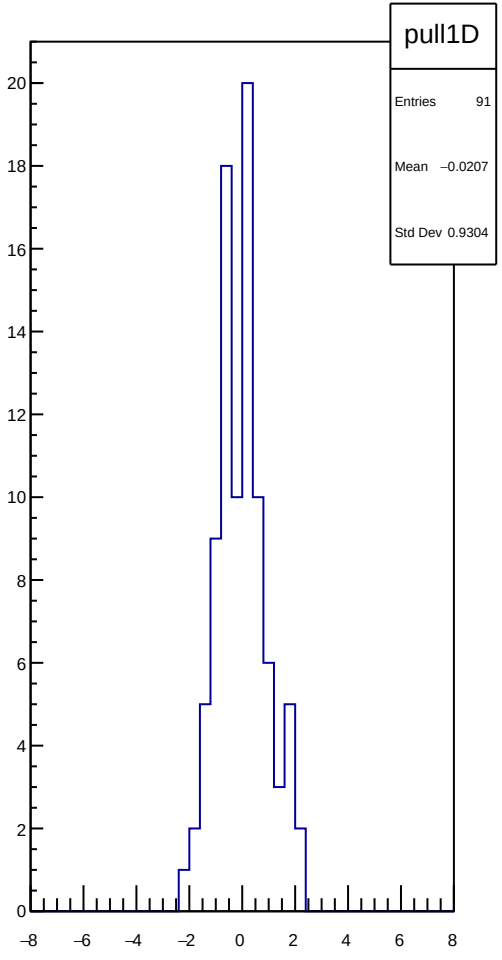

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.521e+04 / 90
p0 161.3 ± 0.1238
350
300
250
200
150
100

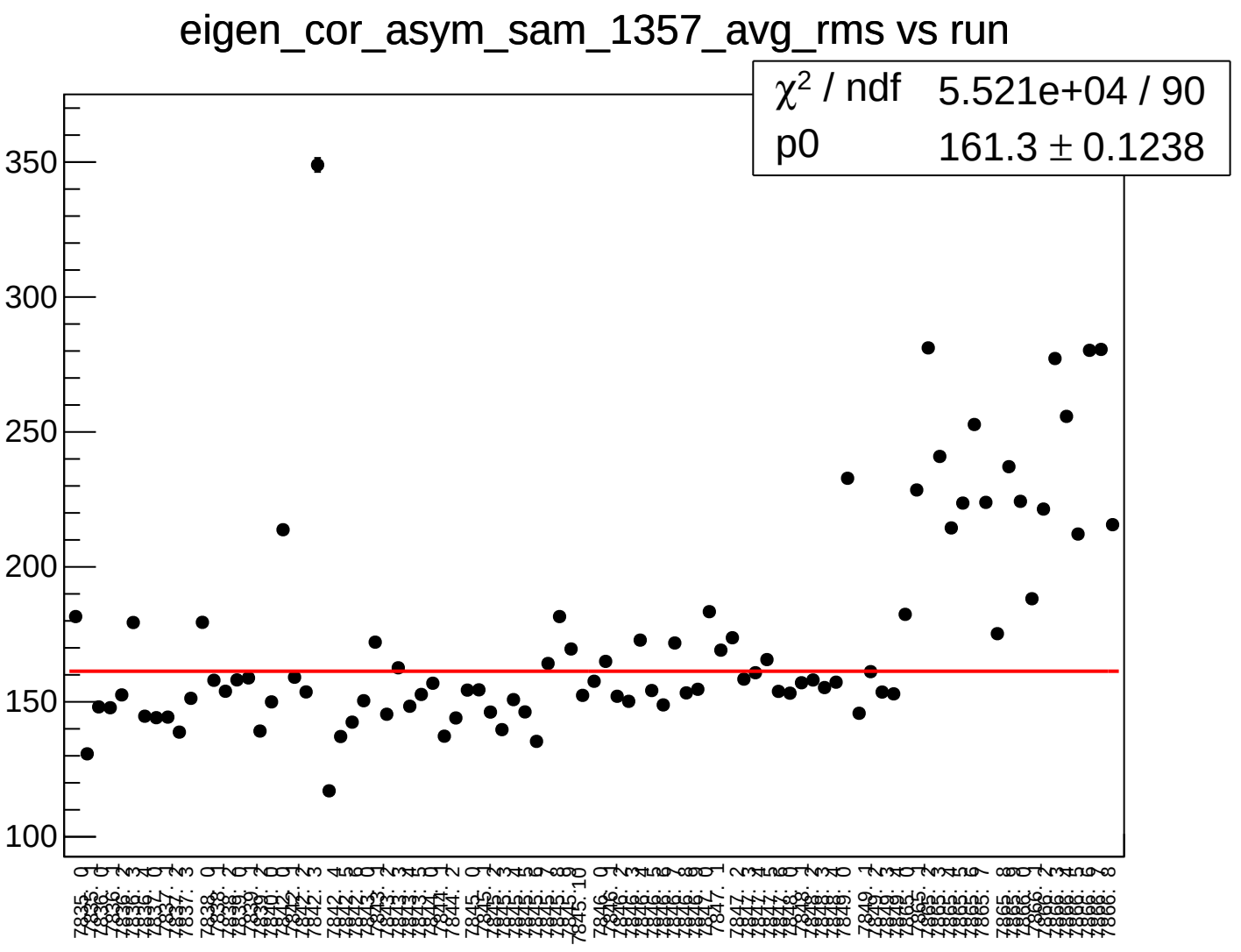

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 79.28 / 90
p0 −310.9 ± 1302
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 150.1
Std Dev 0
2
1
0
−1
−2

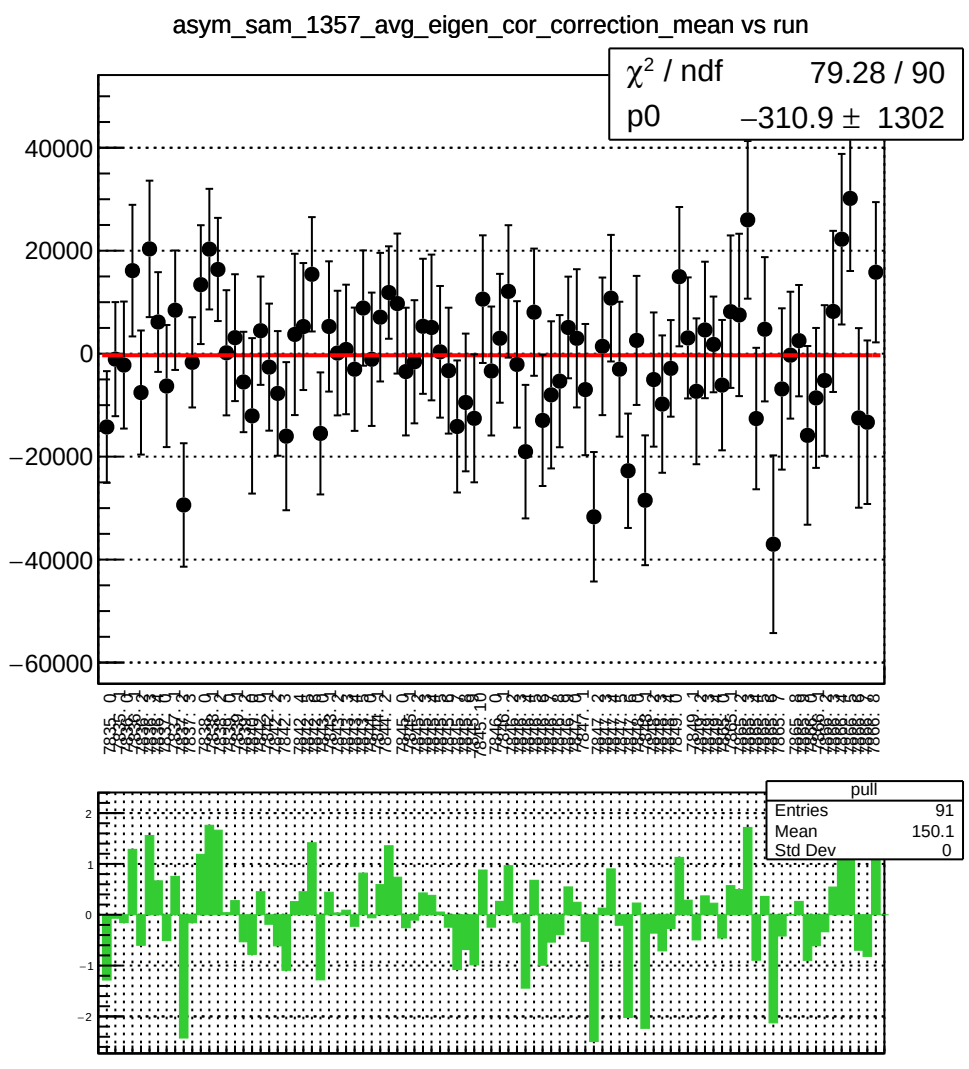

pull1D
Entries 91
Mean −0.01549
Std Dev 0.9333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

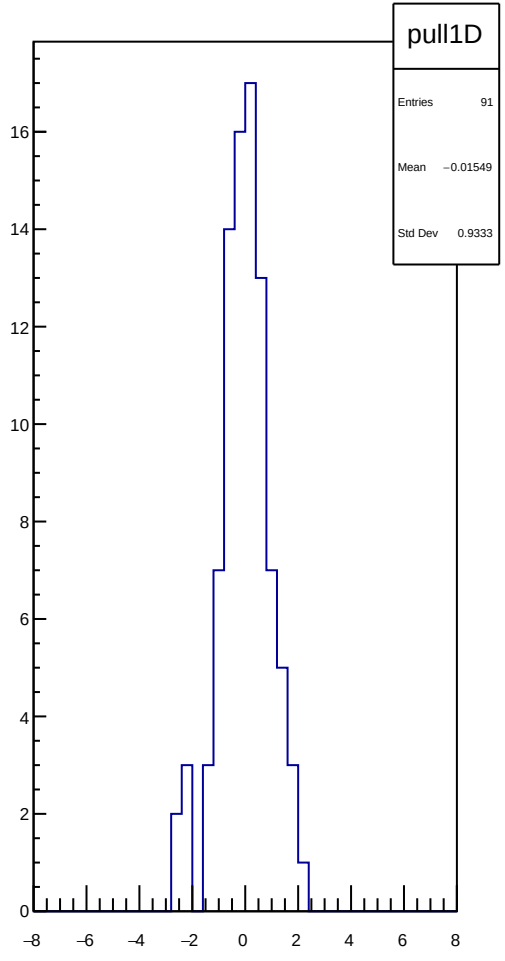

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.572e+04 / 90
p0 1214 ± 0.9204
1700
1600
1500
1400
1300
1200
1100
1000

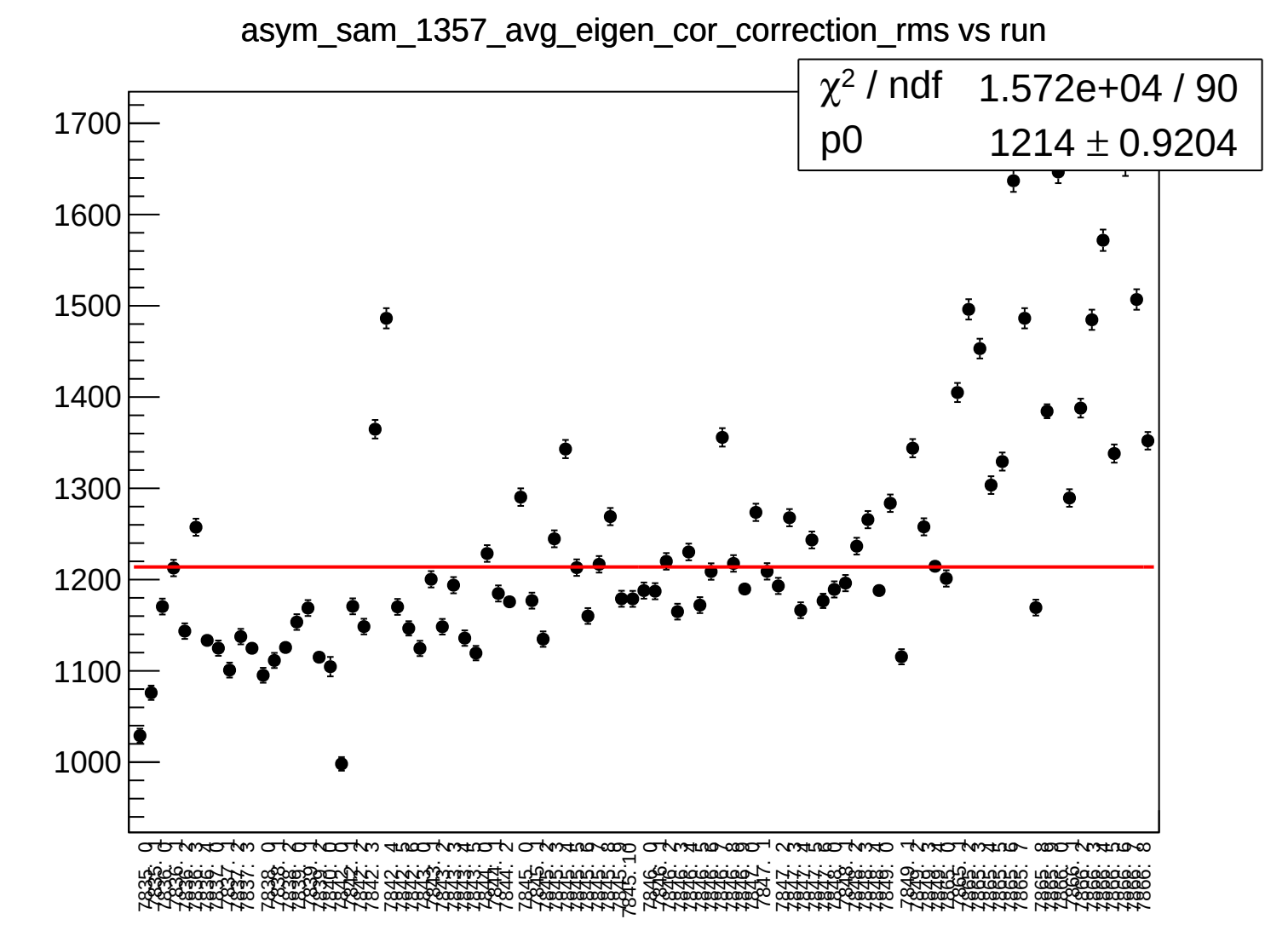

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 78.81 / 90
p0 208.4 ± 175
pull
Entries 91
Mean 130.3
Std Dev 0

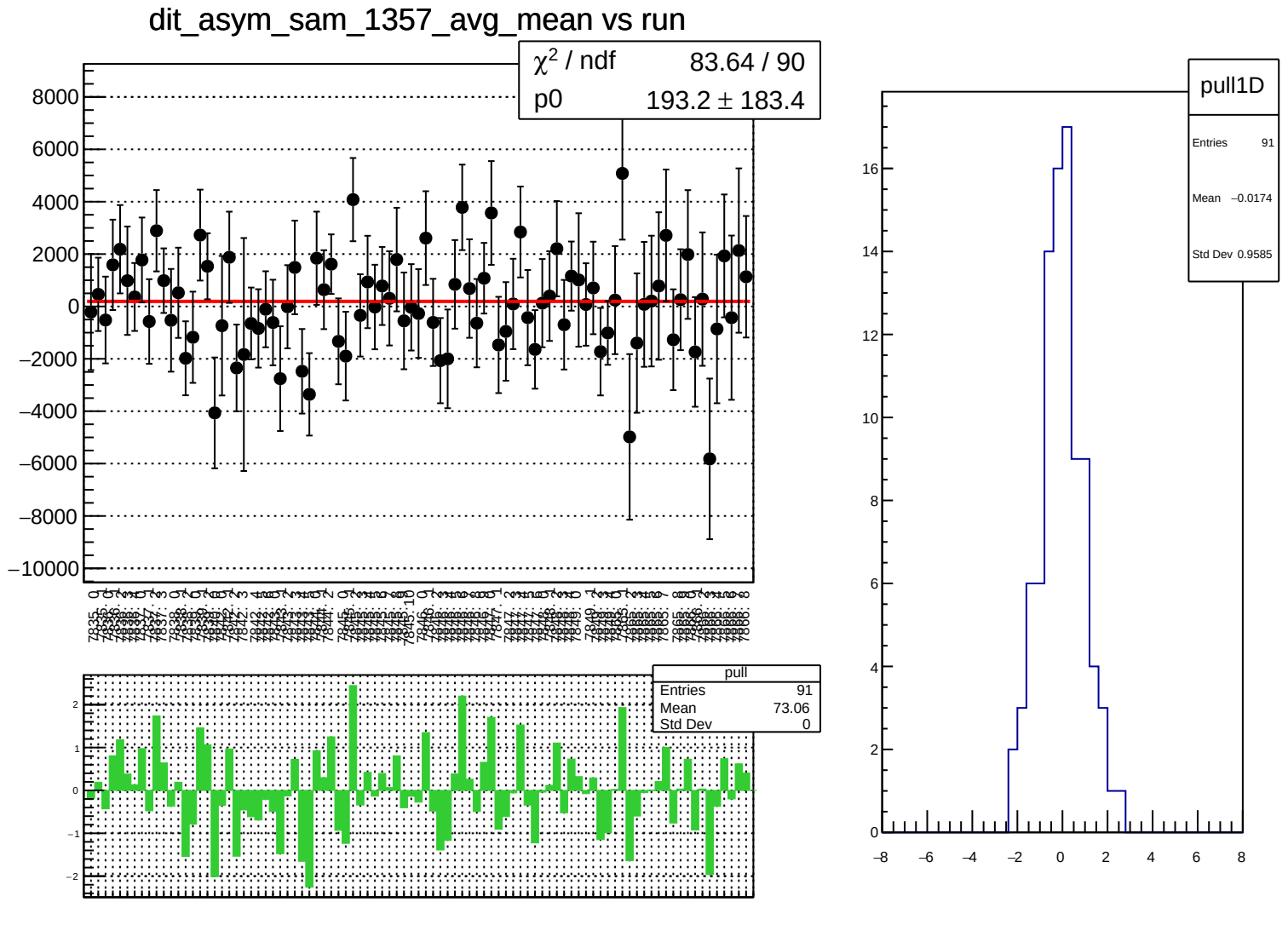

pull1D
Entries 91
Mean −0.0207
Std Dev 0.9304

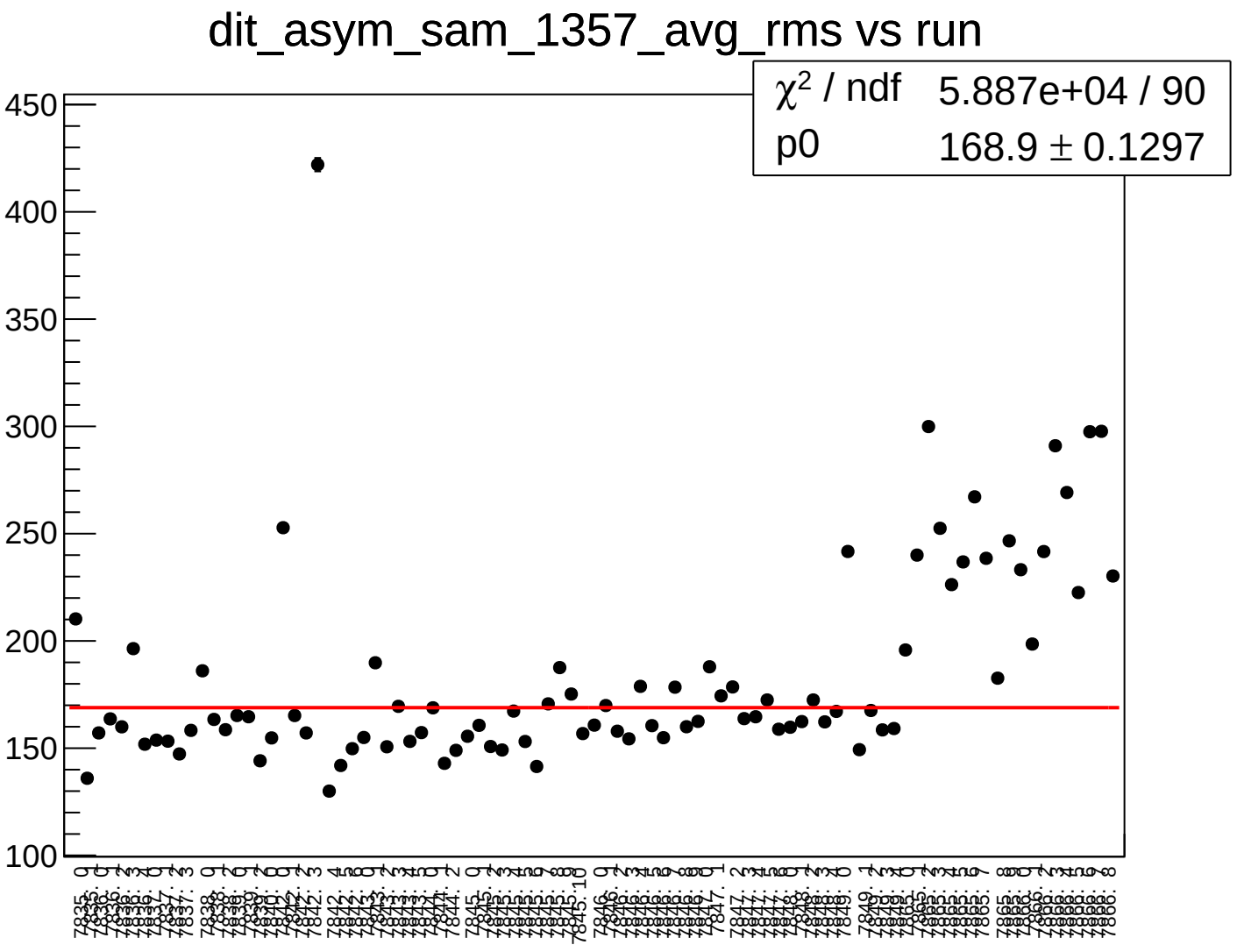

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 5.521e+04 / 90
p0 161.3 ± 0.1238
350
300
250
200
150
100

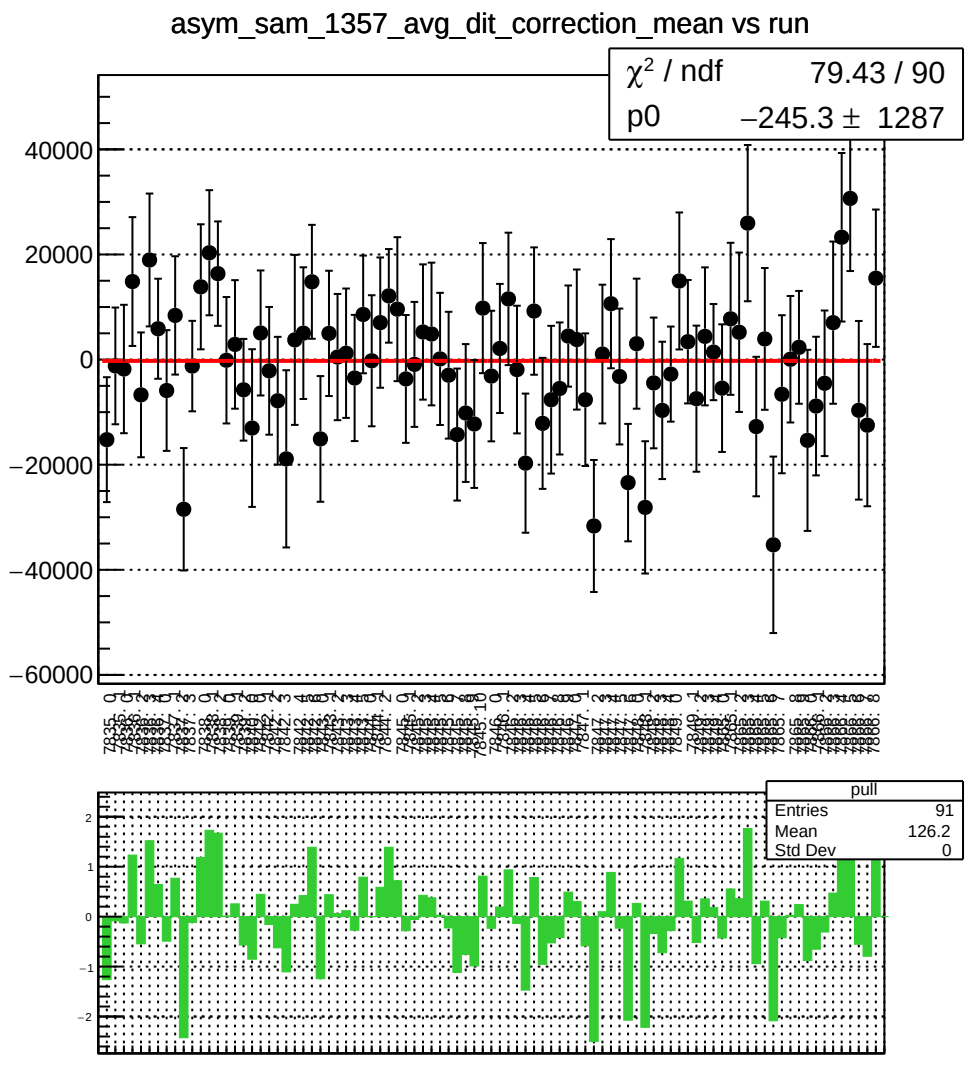

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.28 / 90
p0 −310.9 ± 1302
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 150.1
Std Dev 0
2
1
0
−1
−2

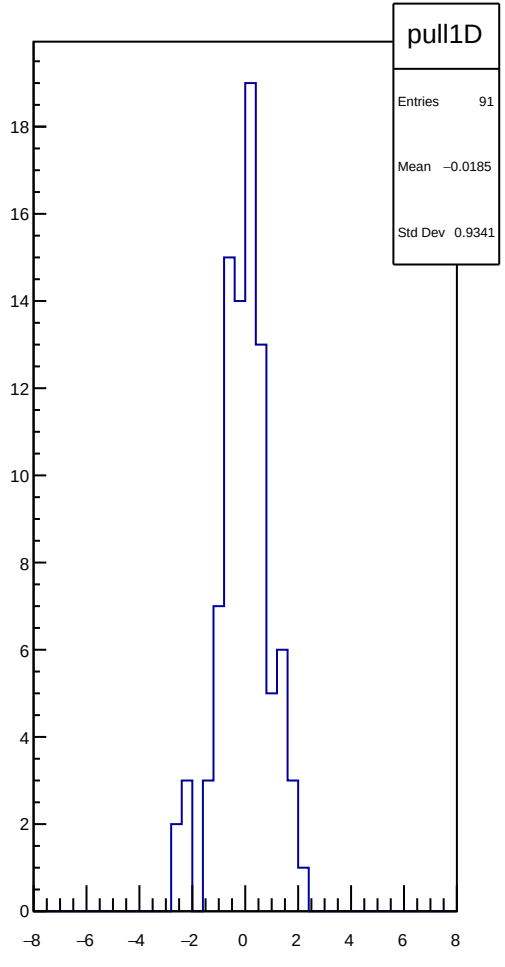

pull1D
Entries 91
Mean −0.01549
Std Dev 0.9333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

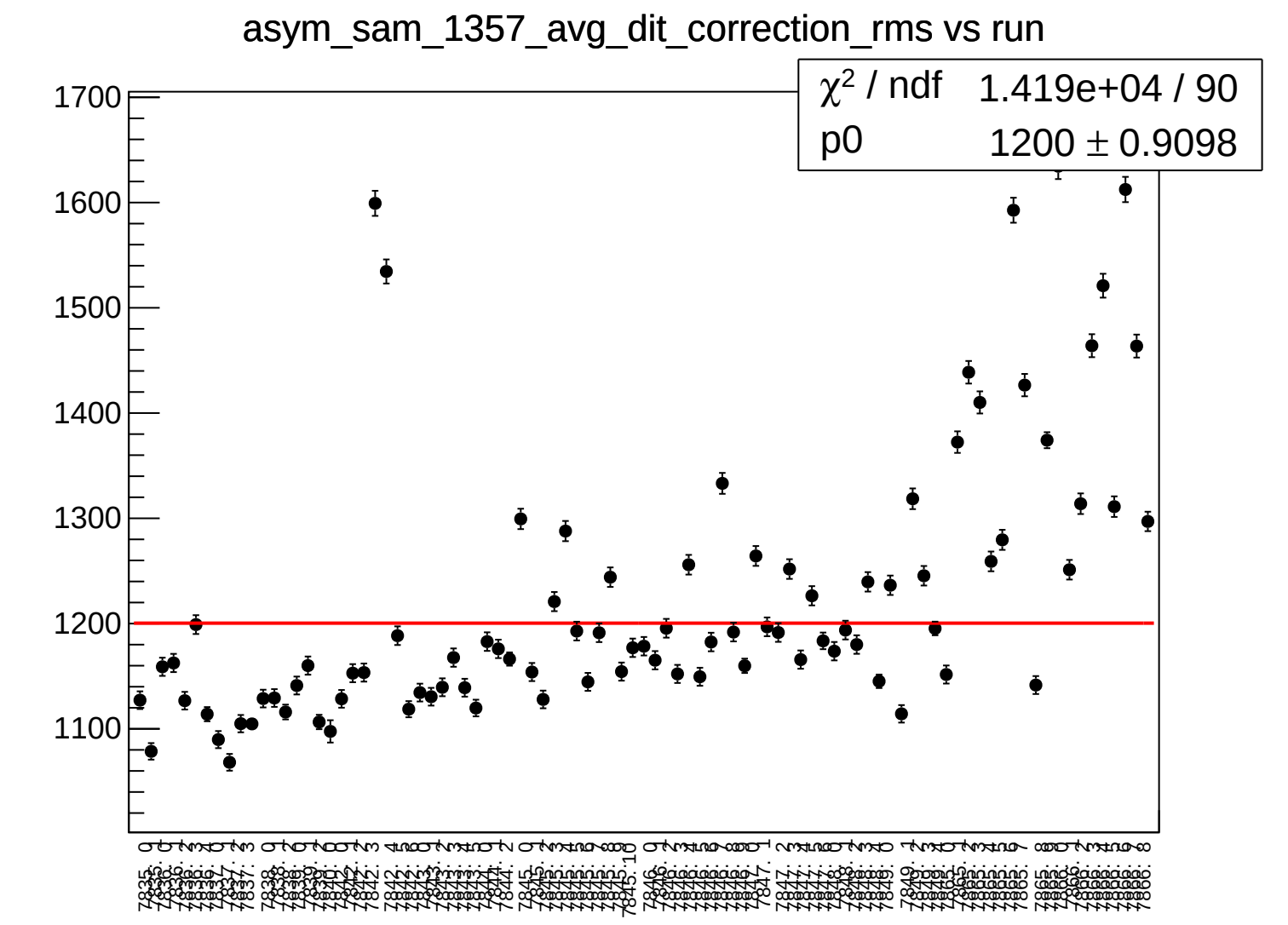

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.572e+04 / 90
p0 1214 ± 0.9204
1700
1600
1500
1400
1300
1200
1100
1000

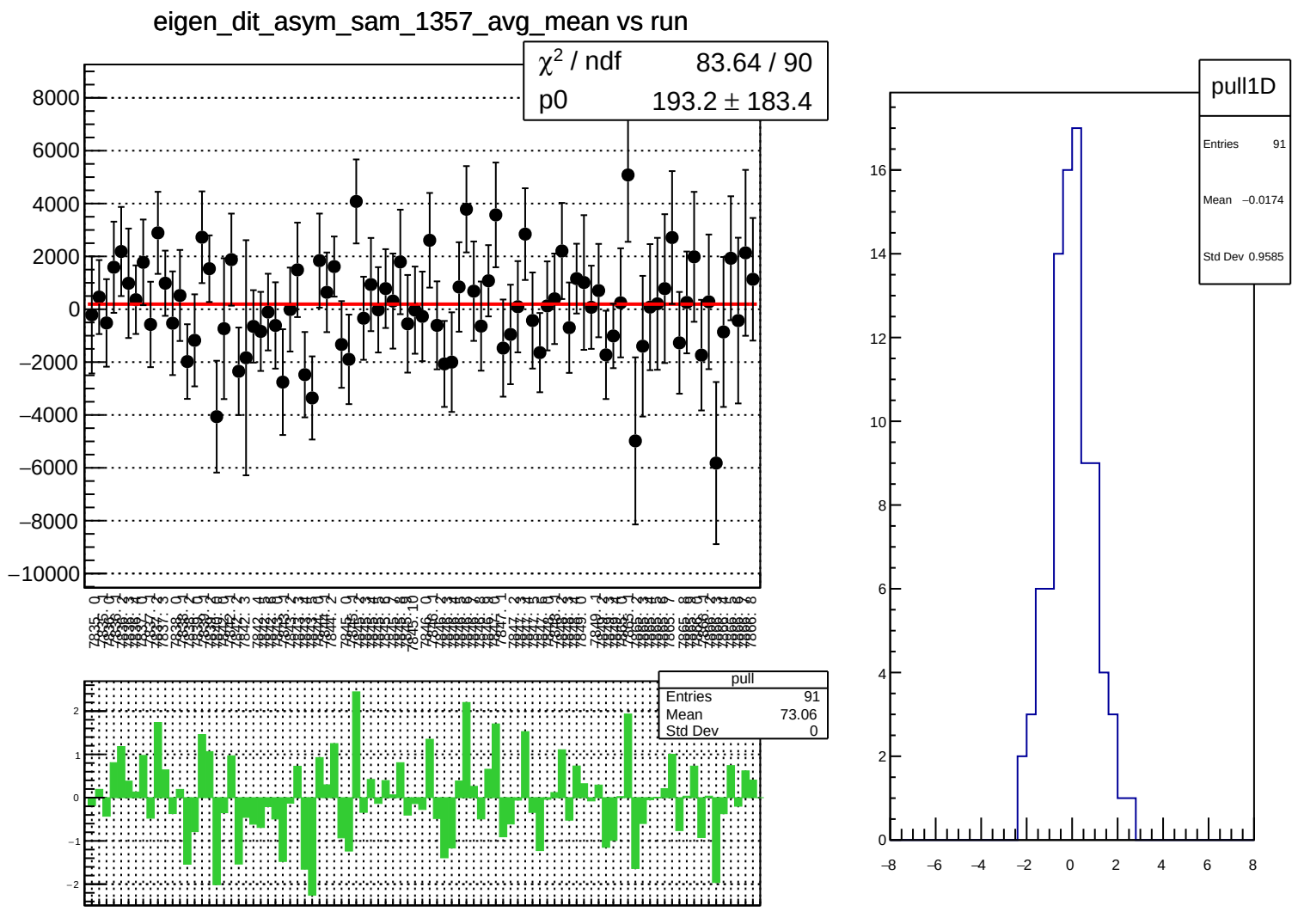

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 83.64 / 90
p0 193.2 ± 183.4
pull
Entries 91
Mean 73.06
Std Dev 0
pull1D
Entries 91
Mean −0.0174
Std Dev 0.9585

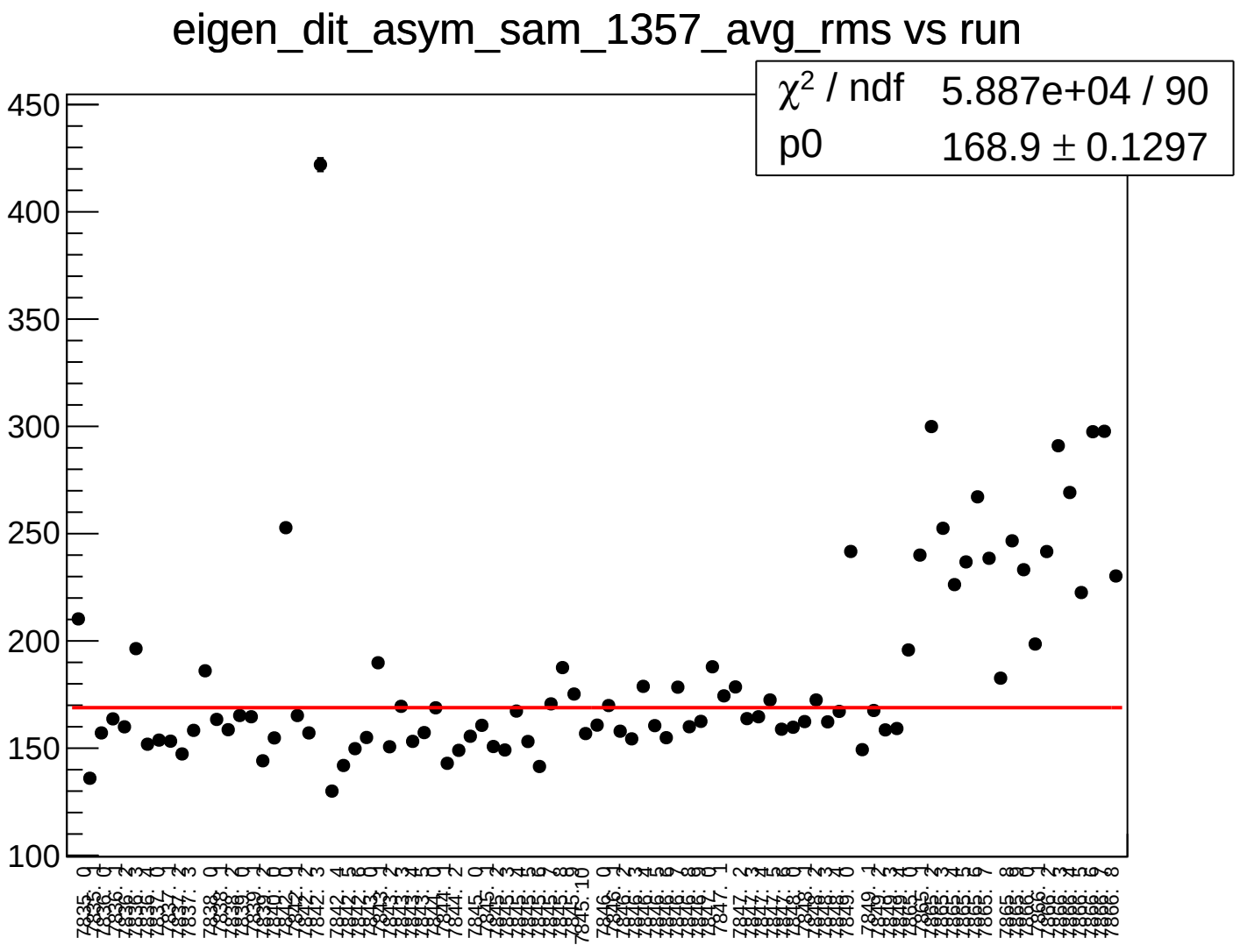

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.887e+04 / 90
p0 168.9 ± 0.1297
450
400
350
300
250
200
150
100

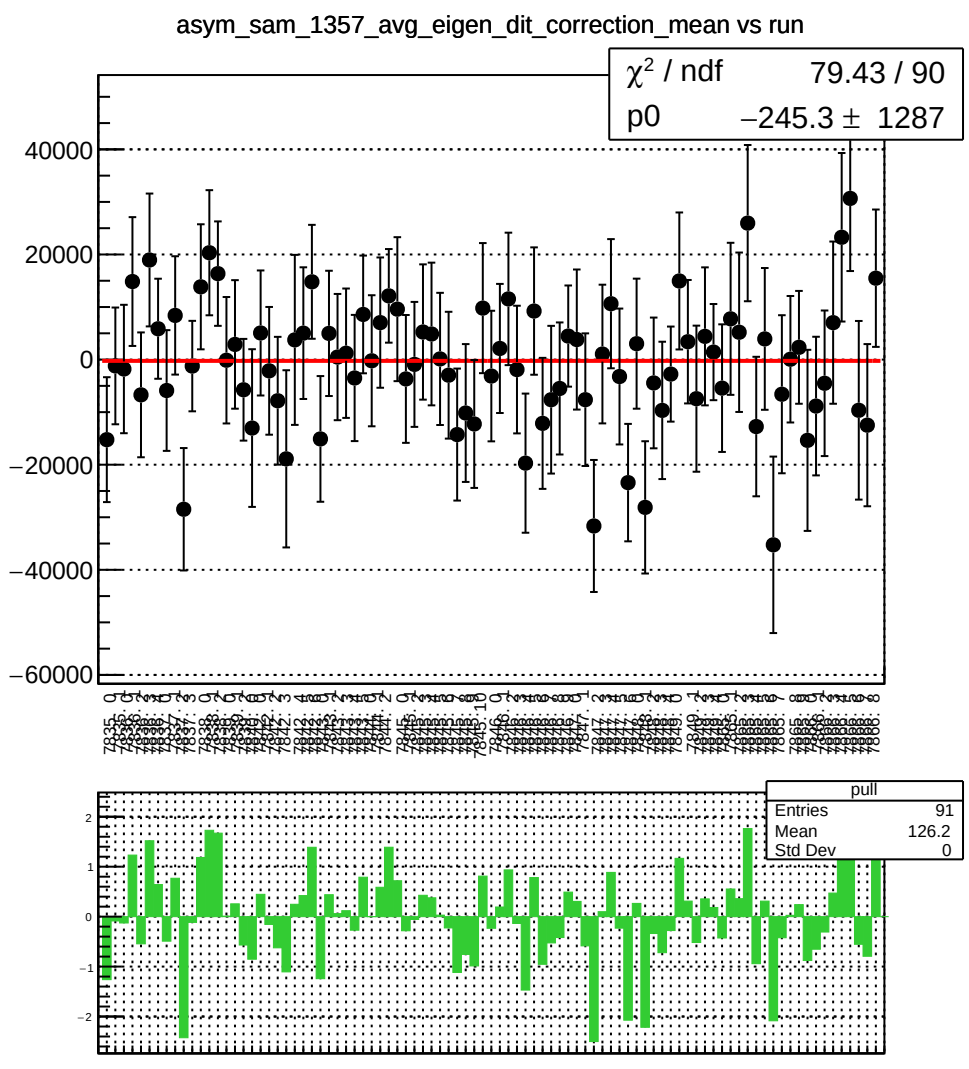

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 79.43 / 90
p0 −245.3 ± 1287
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 126.2
Std Dev 0
2
1
0
−1
−2

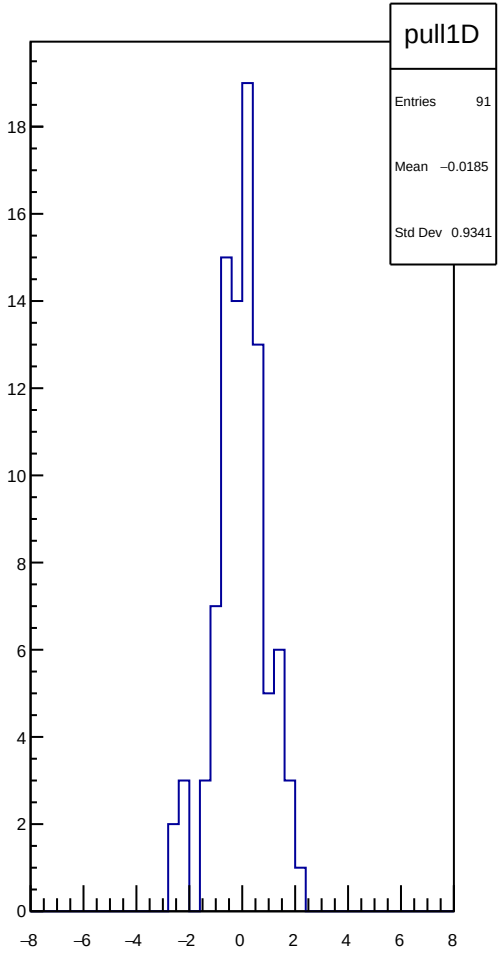

pull1D
Entries 91
Mean −0.0185
Std Dev 0.9341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

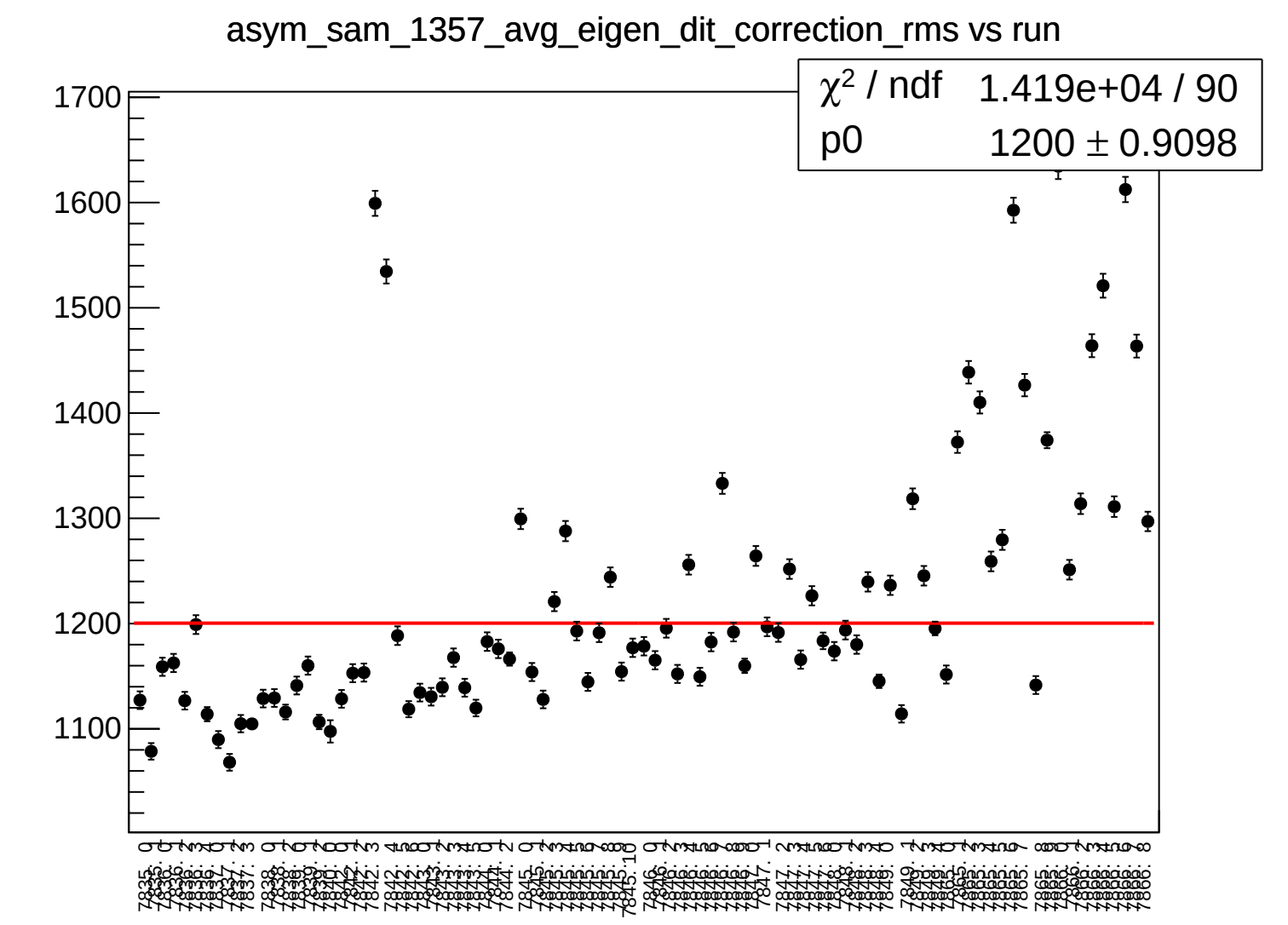

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 90
p0 1200 ± 0.9098
1700
1600
1500
1400
1300
1200
1100

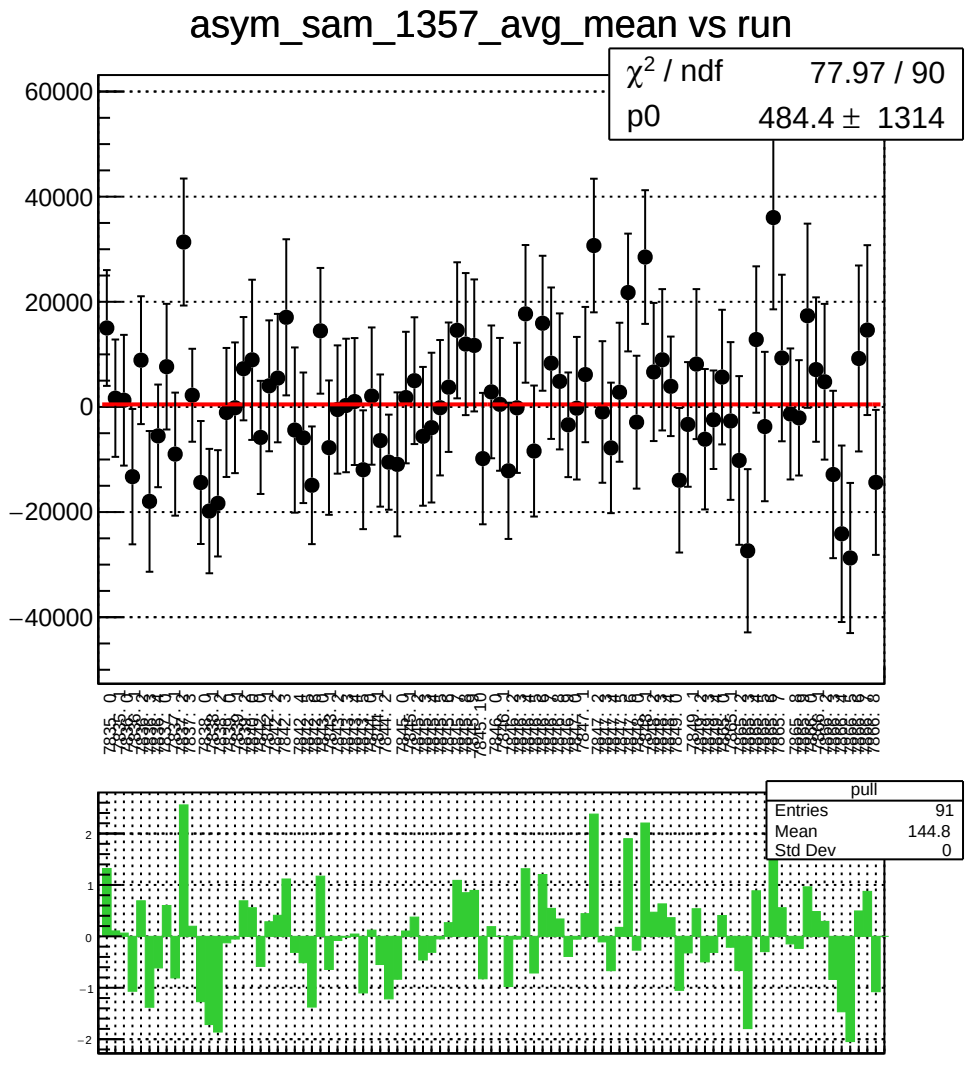

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 83.64 / 90
p0 193.2 ± 183.4
pull
Entries 91
Mean 73.06
Std Dev 0
pull1D
Entries 91
Mean −0.0174
Std Dev 0.9585

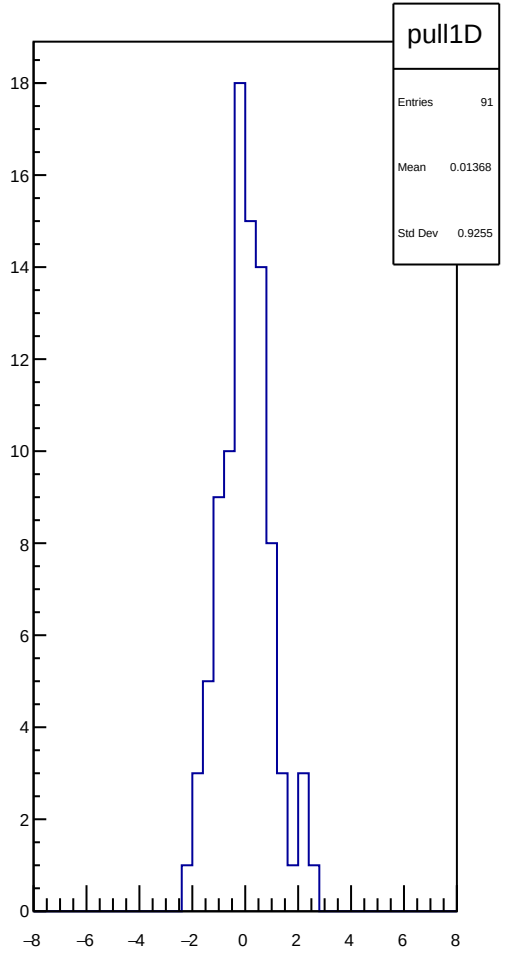

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.887e+04 / 90
p0 168.9 ± 0.1297
450
400
350
300
250
200
150
100

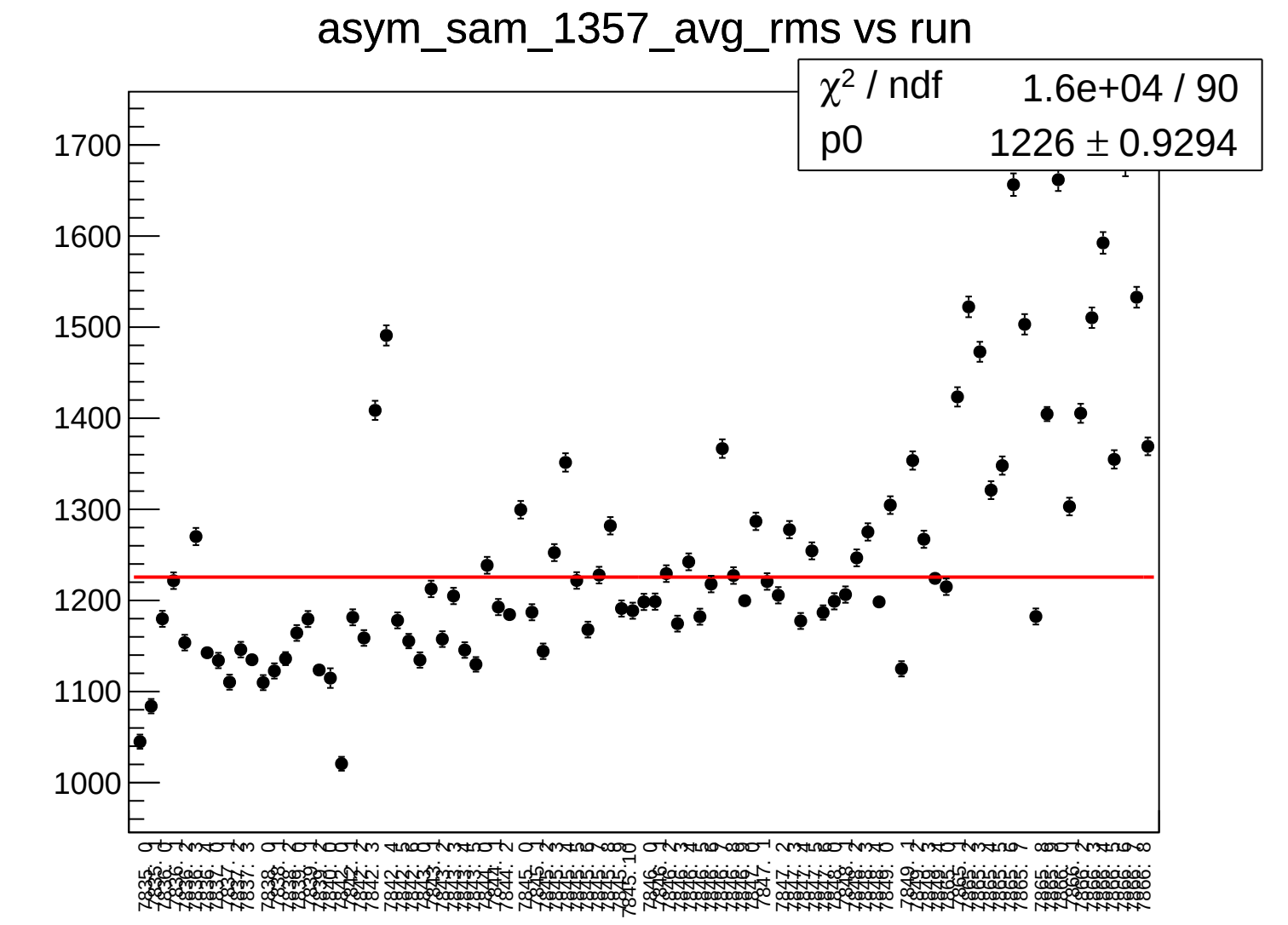

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.43 / 90
p0 −245.3 ± 1287
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 126.2
Std Dev 0
2
1
0
−1
−2

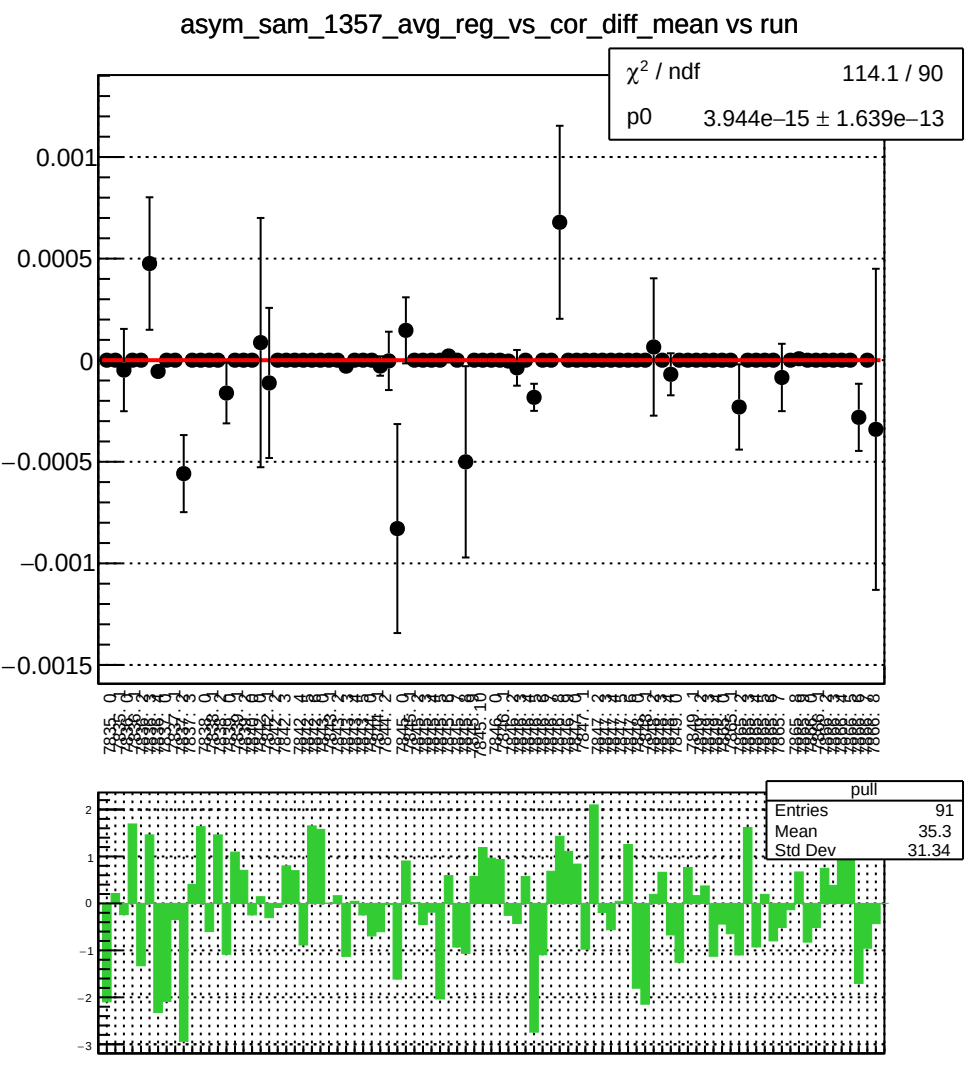

pull1D
Entries 91
Mean −0.0185
Std Dev 0.9341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

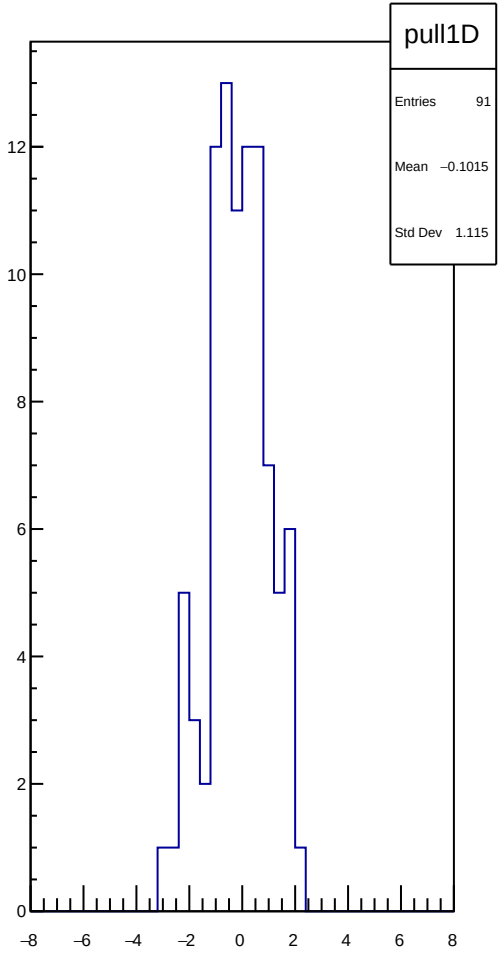

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 90
p0 1200 ± 0.9098
1700
1600
1500
1400
1300
1200
1100

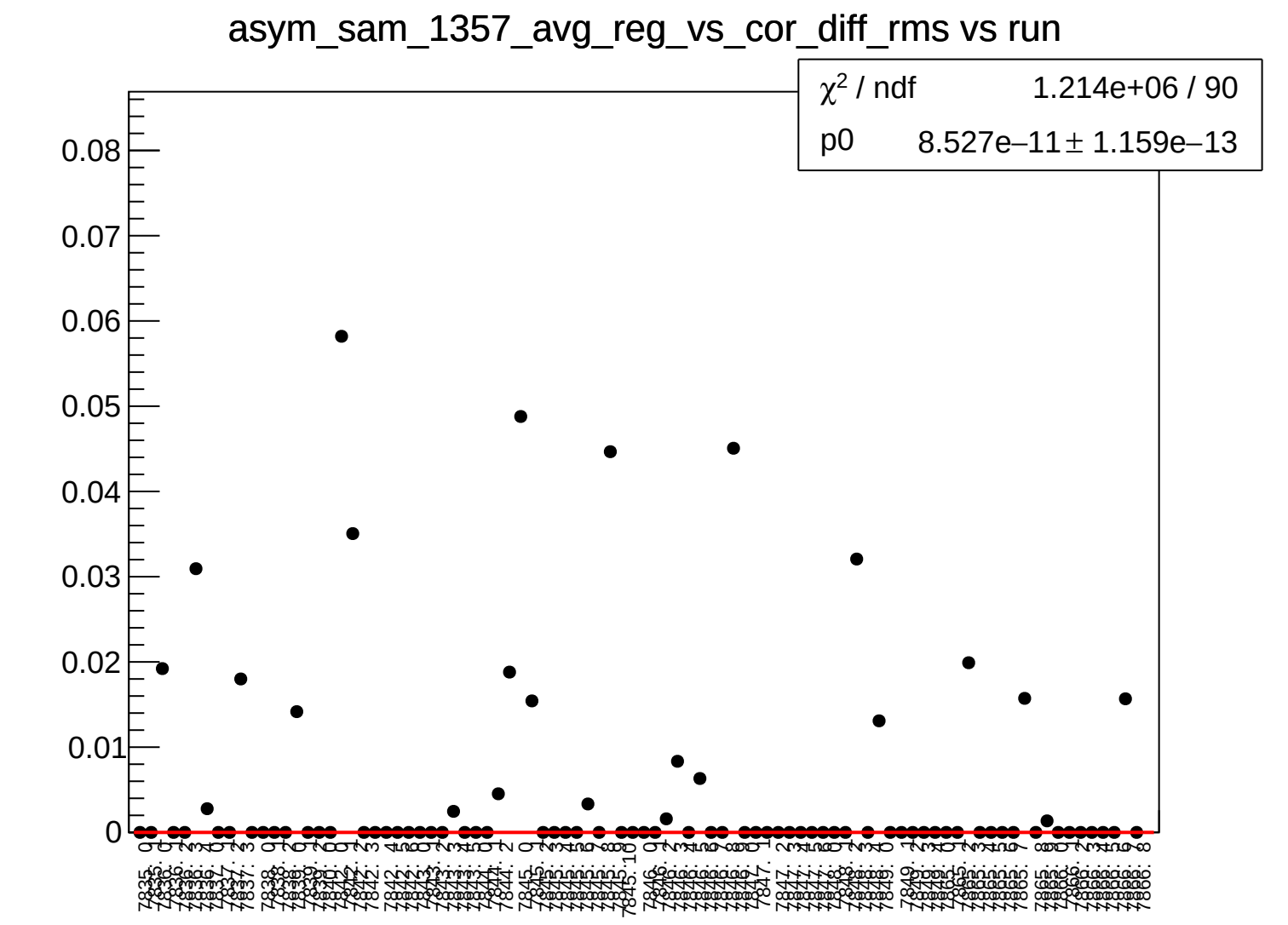

asym_sam_1357_avg_mean vs run
χ² / ndf 77.97 / 90
p0 484.4 ± 1314
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 144.8
Std Dev 0
2
1
0
−1
−2

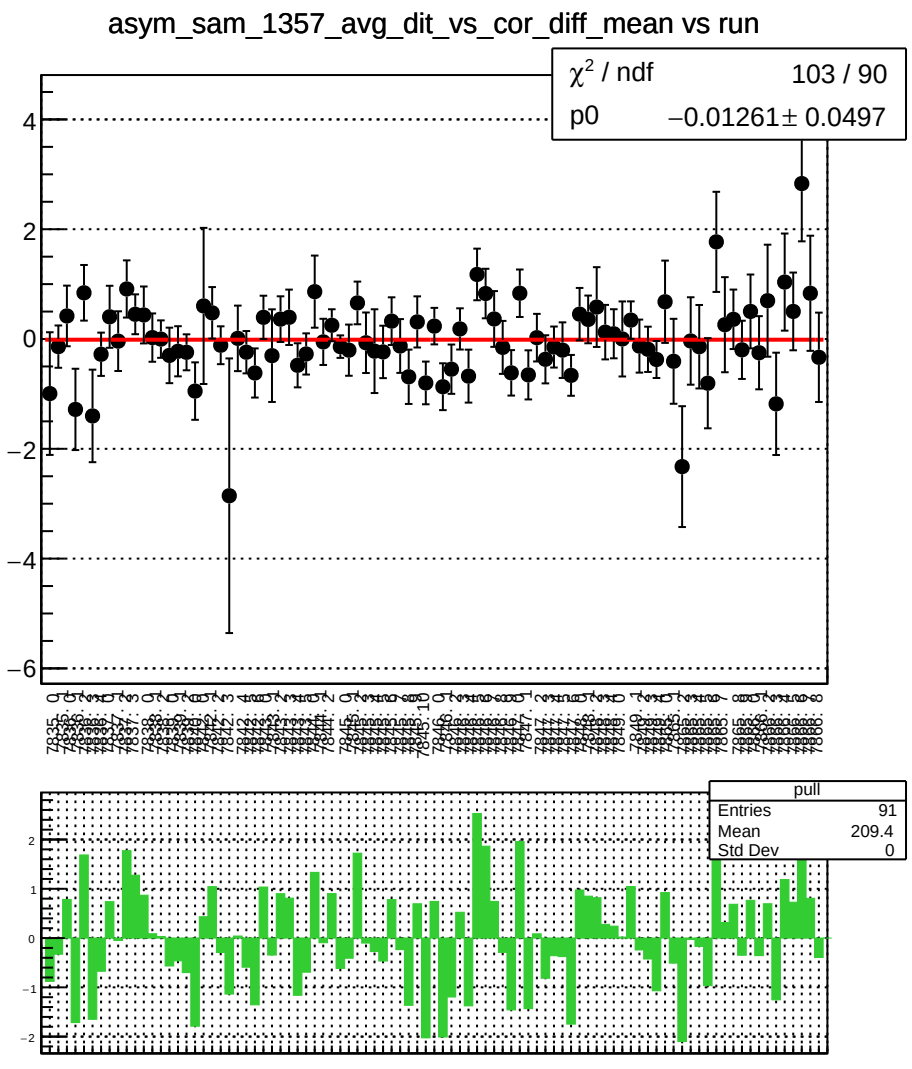

pull1D
Entries 91
Mean 0.01368
Std Dev 0.9255
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

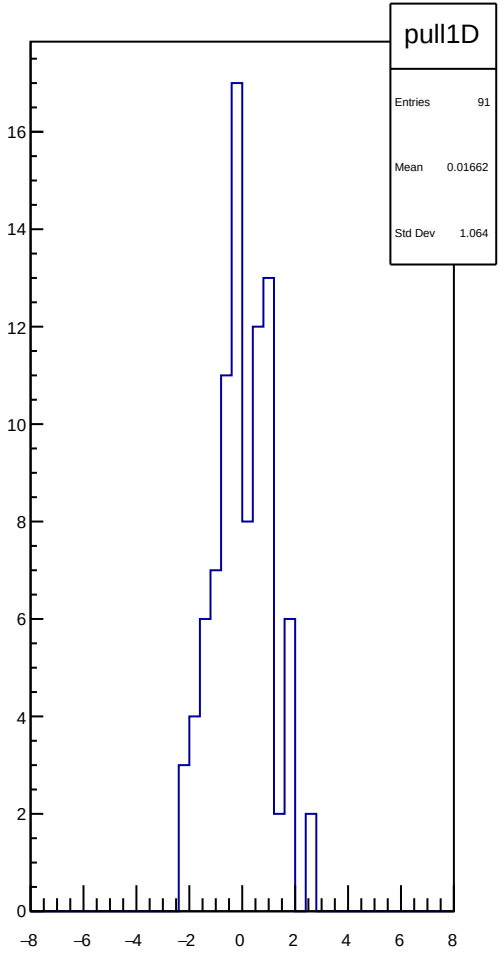

asym_sam_1357_avg_rms vs run
χ² / ndf 1.6e+04 / 90
p0 1226 ± 0.9294
1700
1600
1500
1400
1300
1200
1100
1000

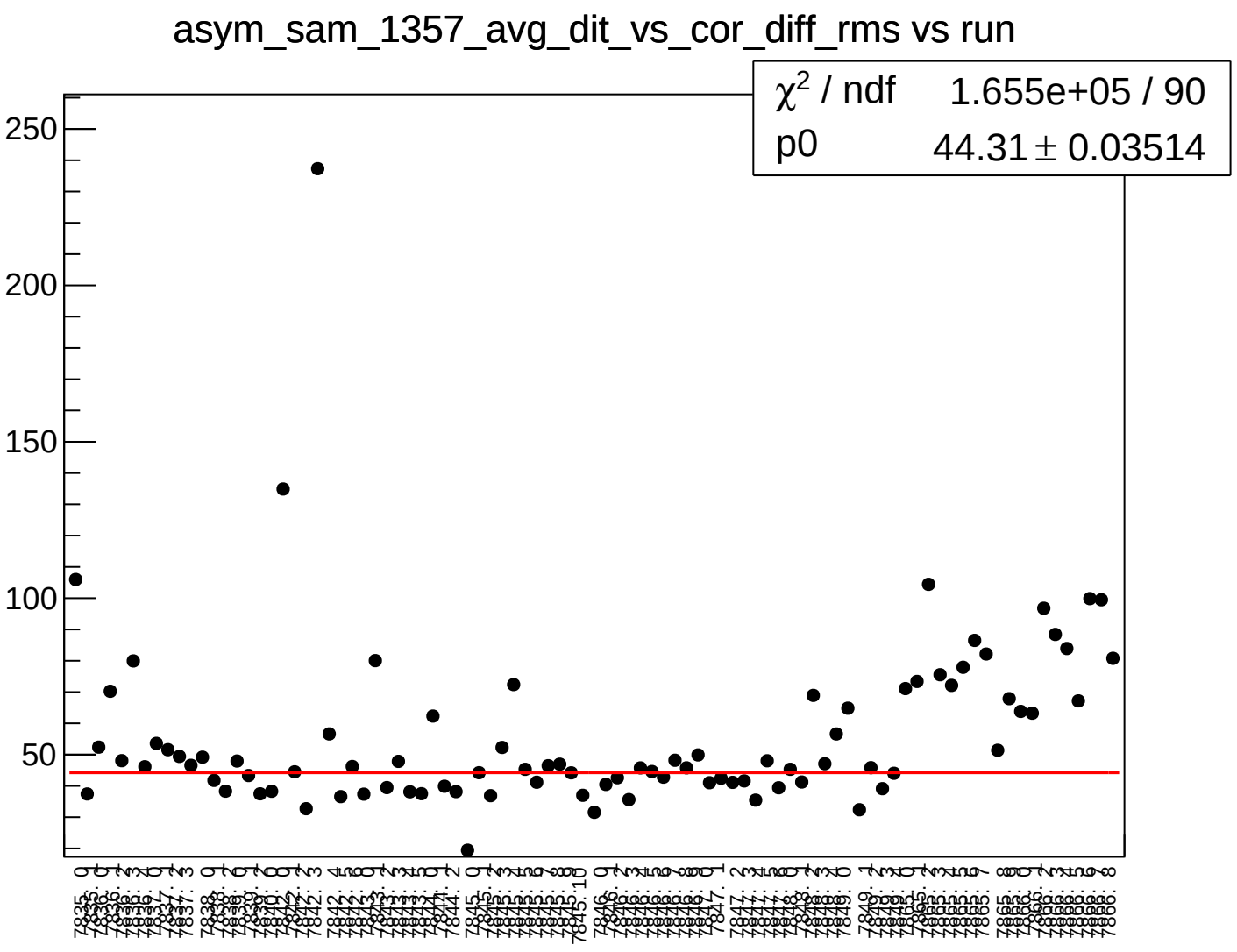

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.1 / 90
p0 3.944e−15 ± 1.639e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 35.3
Std Dev 31.34
2
1
0
−1
−2
−3

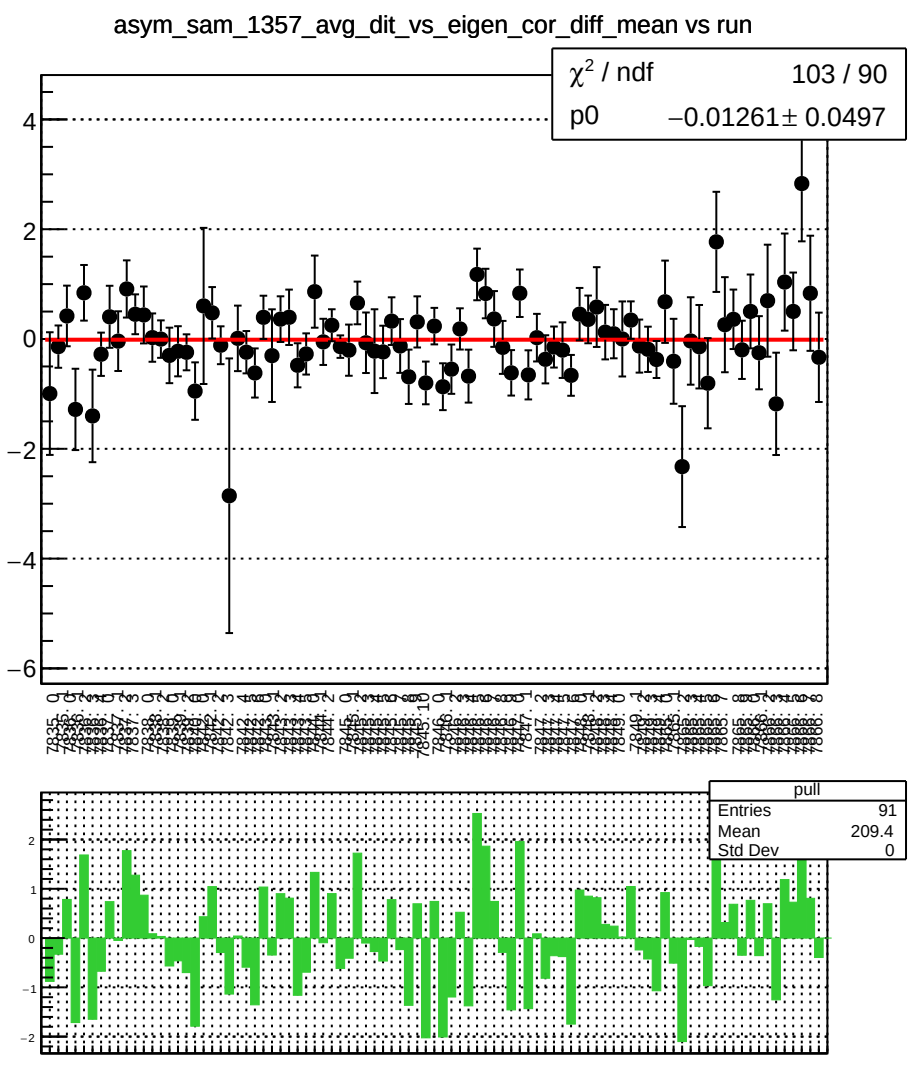

pull1D
Entries 91
Mean −0.1015
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

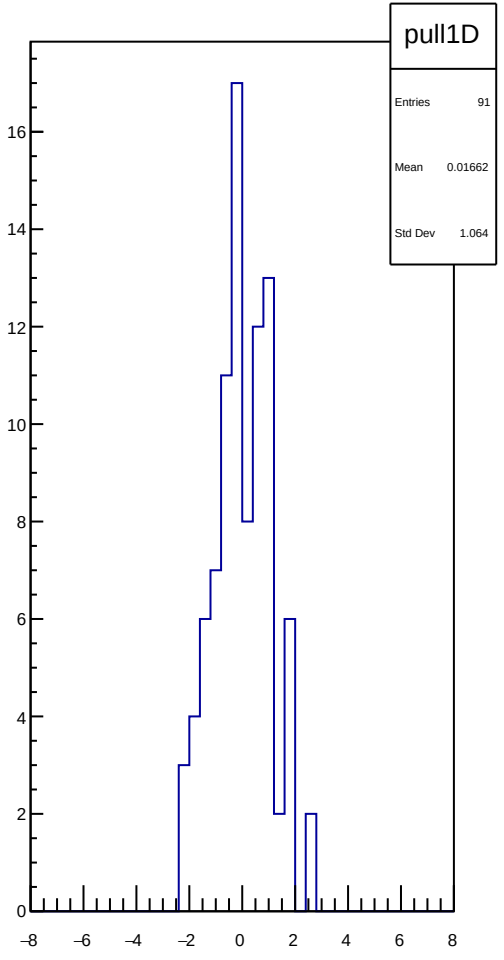

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.214e+06 / 90
p0 8.527e−11 ± 1.159e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

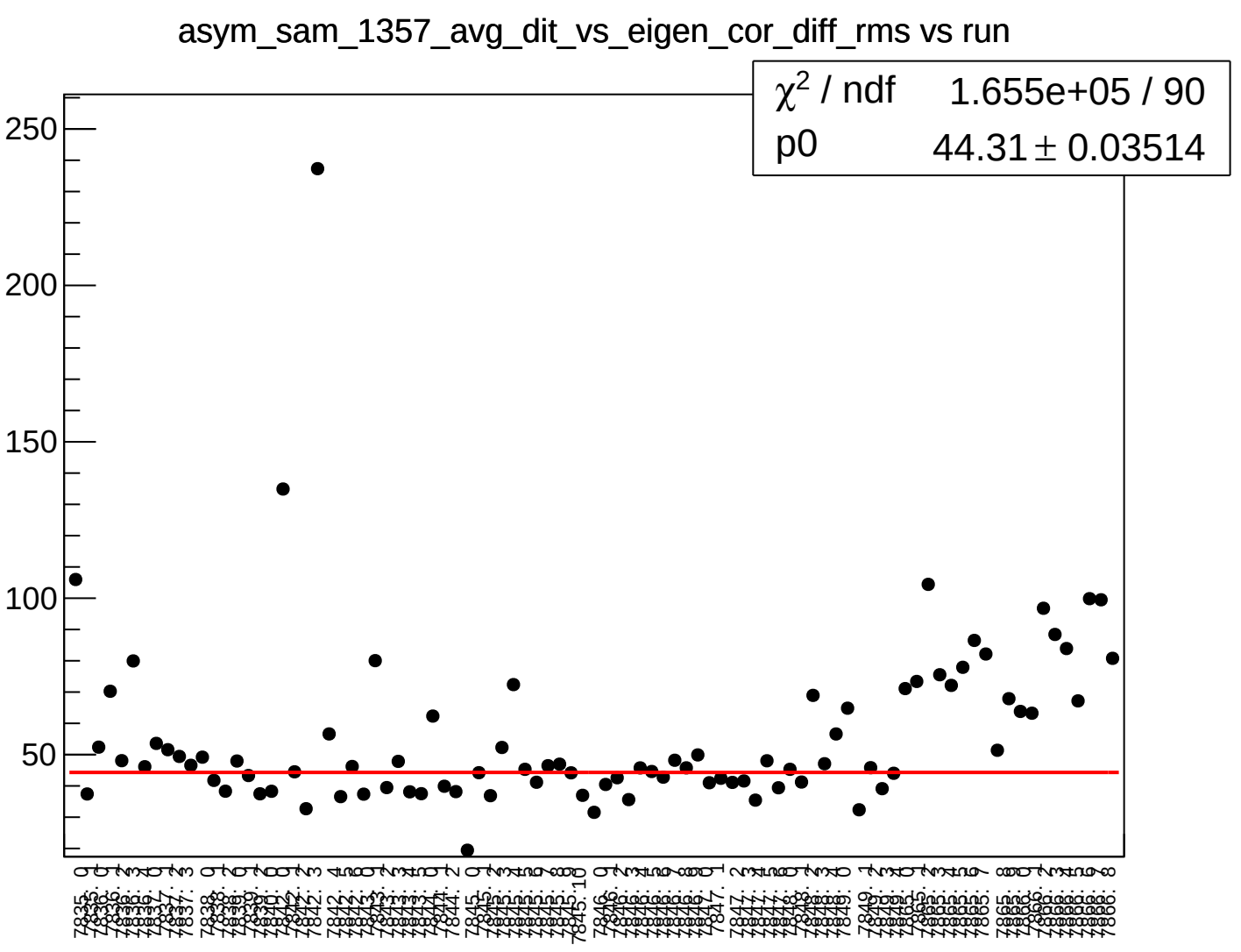

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 90
p0 −0.01261 ± 0.0497
pull
Entries 91
Mean 209.4
Std Dev 0

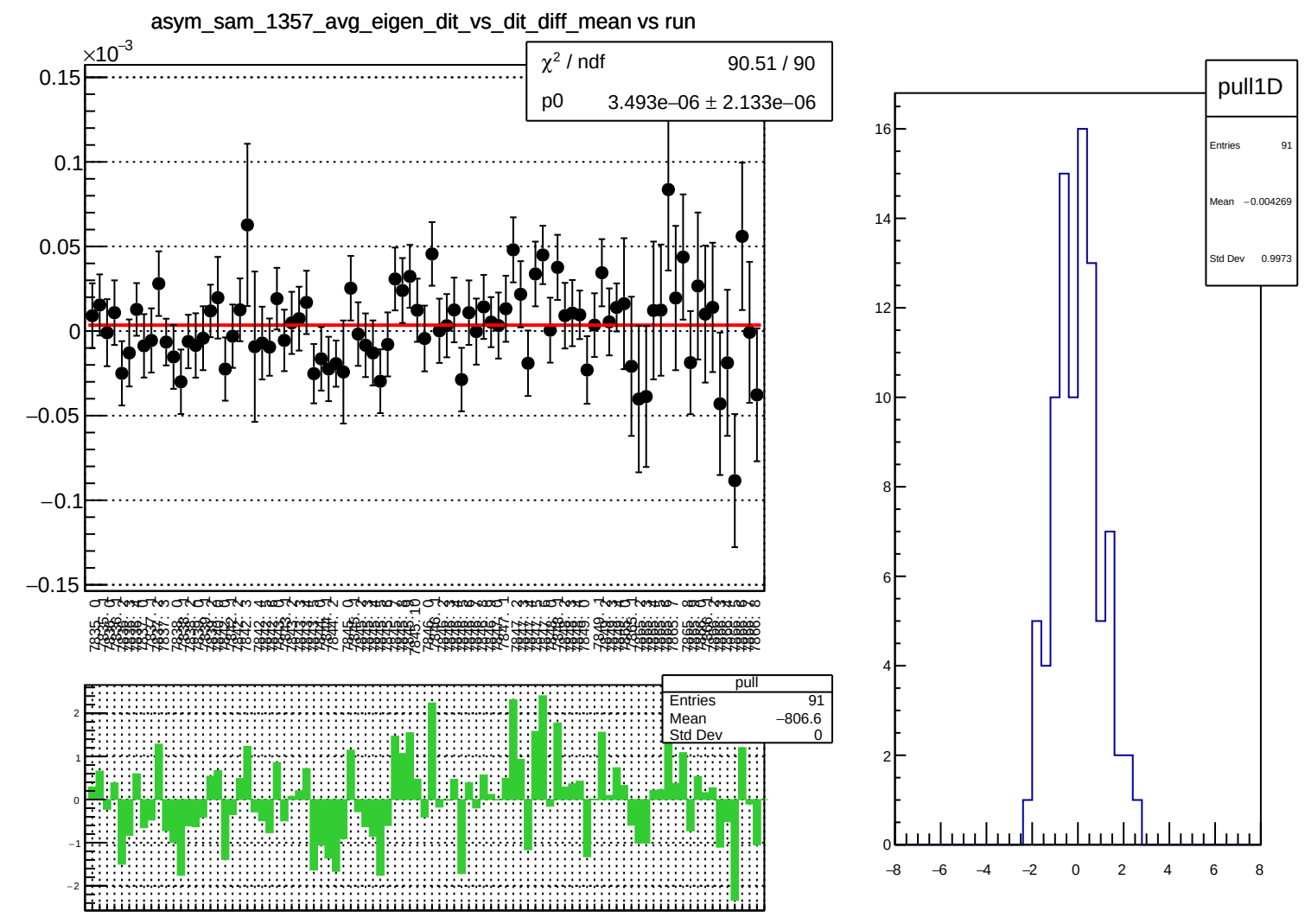

pull1D
Entries 91
Mean 0.01662
Std Dev 1.064

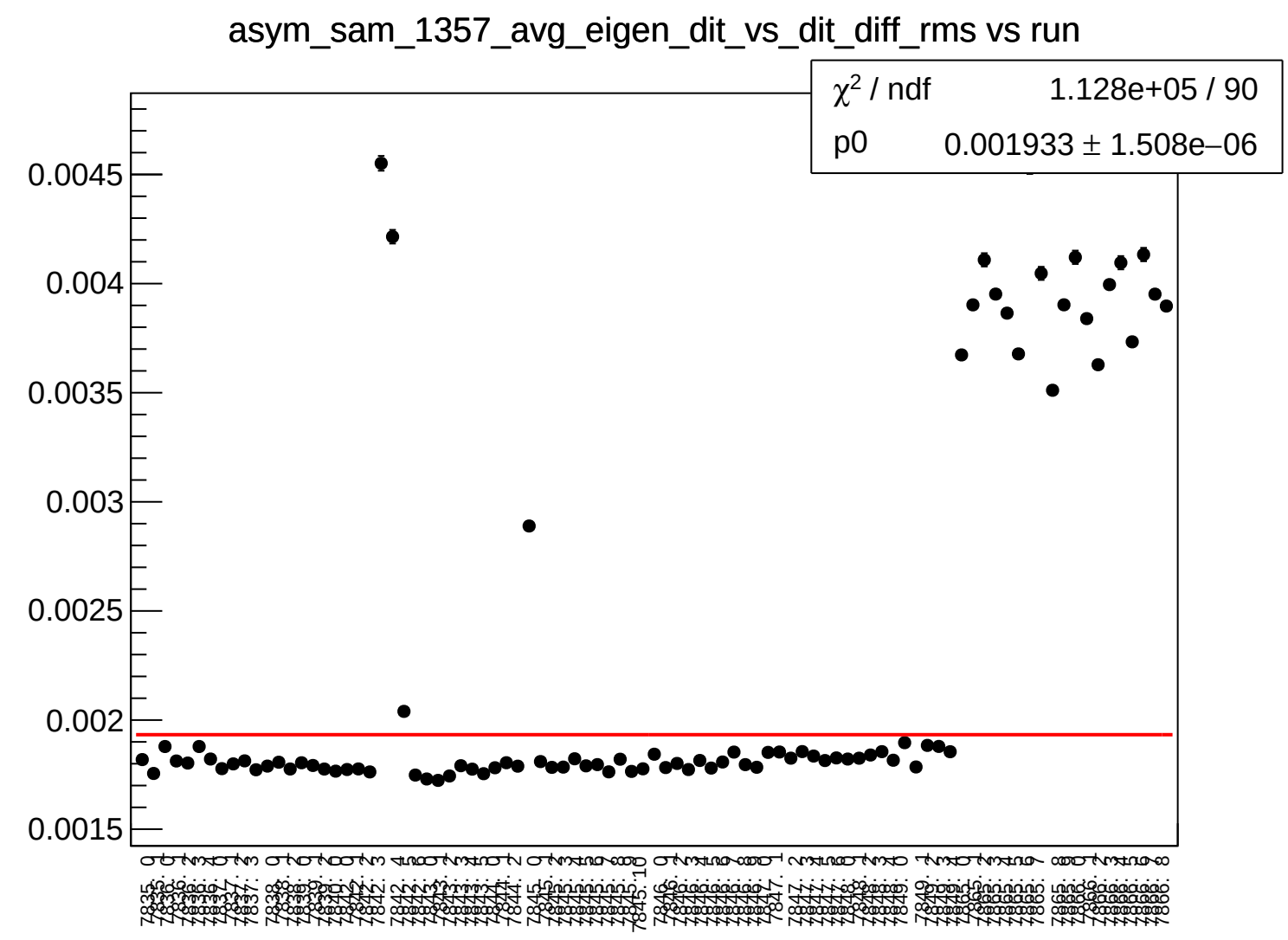

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.655e+05 / 90
p0 44.31 ± 0.03514
250
200
150
100
50

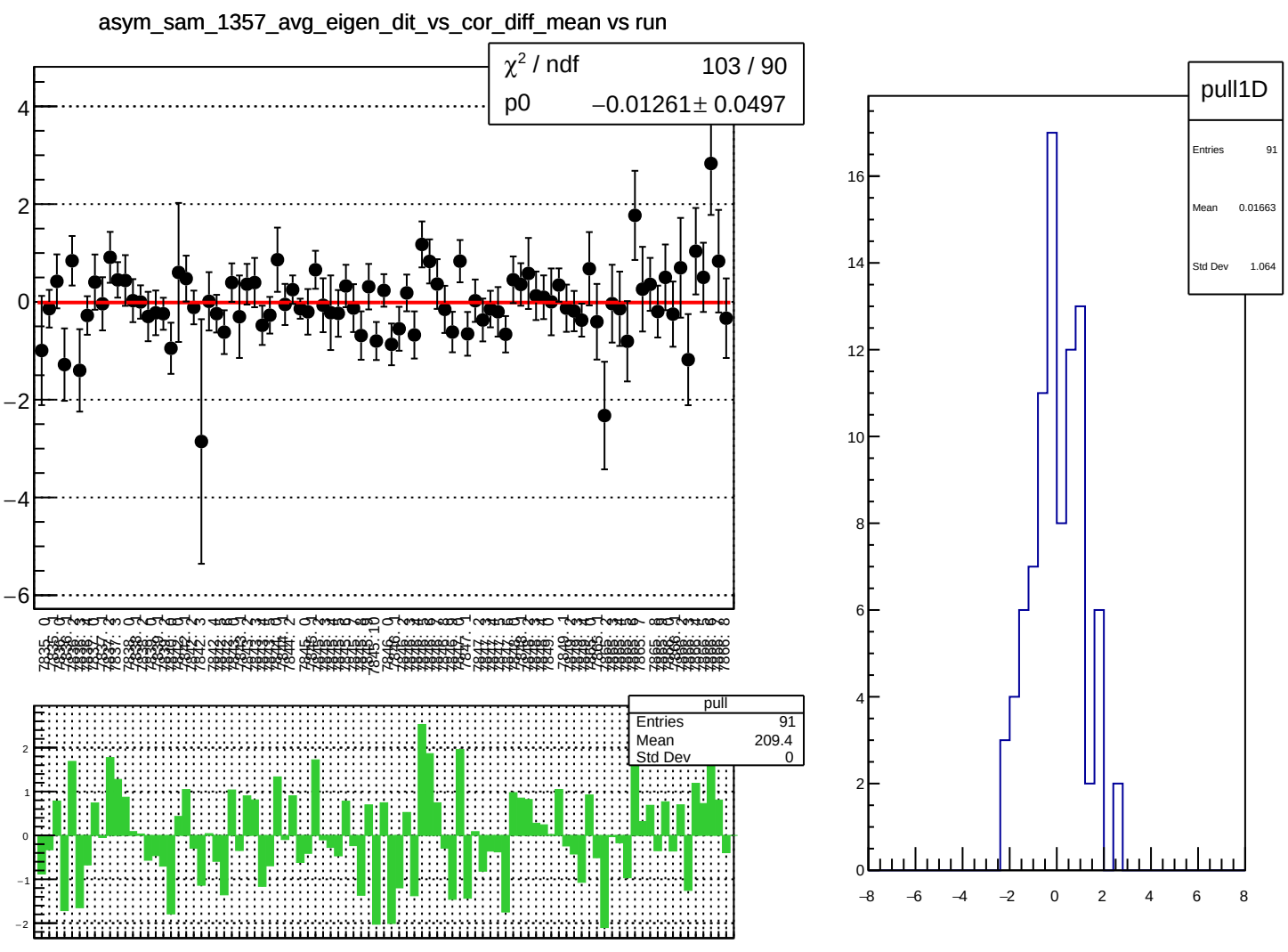

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 90
p0 −0.01261 ± 0.0497
pull
Entries 91
Mean 209.4
Std Dev 0

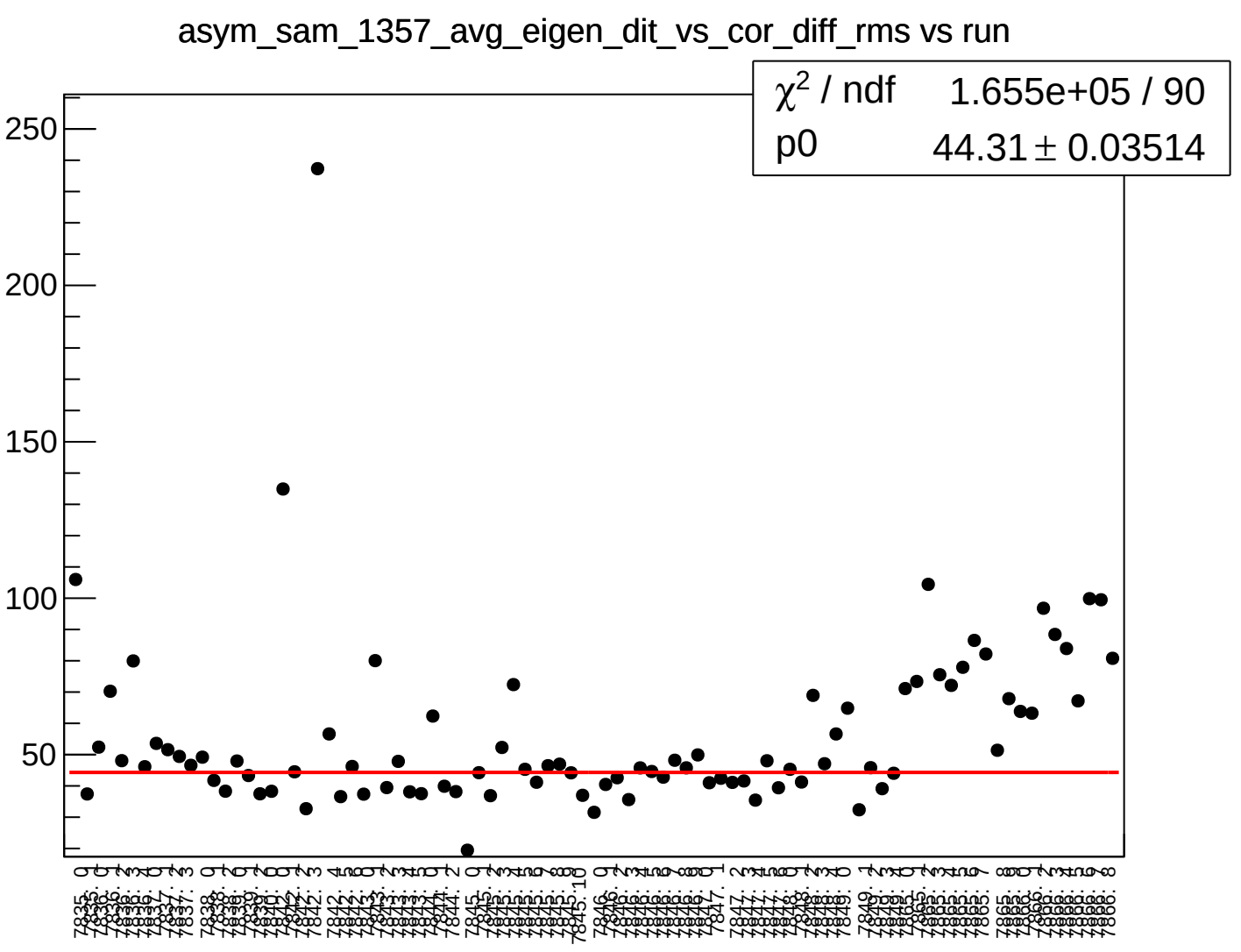

pull1D
Entries 91
Mean 0.01662
Std Dev 1.064

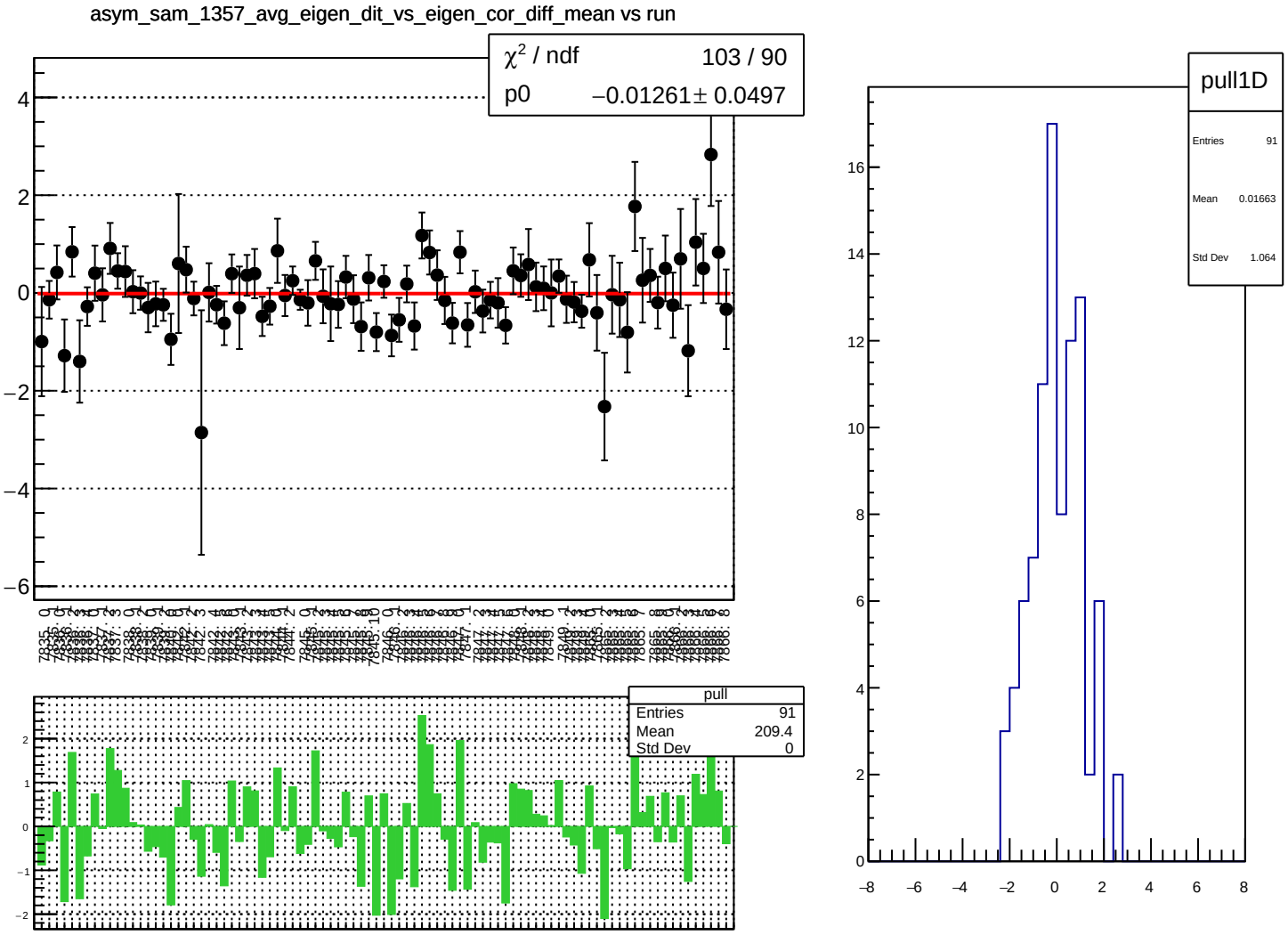

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.655e+05 / 90
p0 44.31 ± 0.03514
250
200
150
100
50

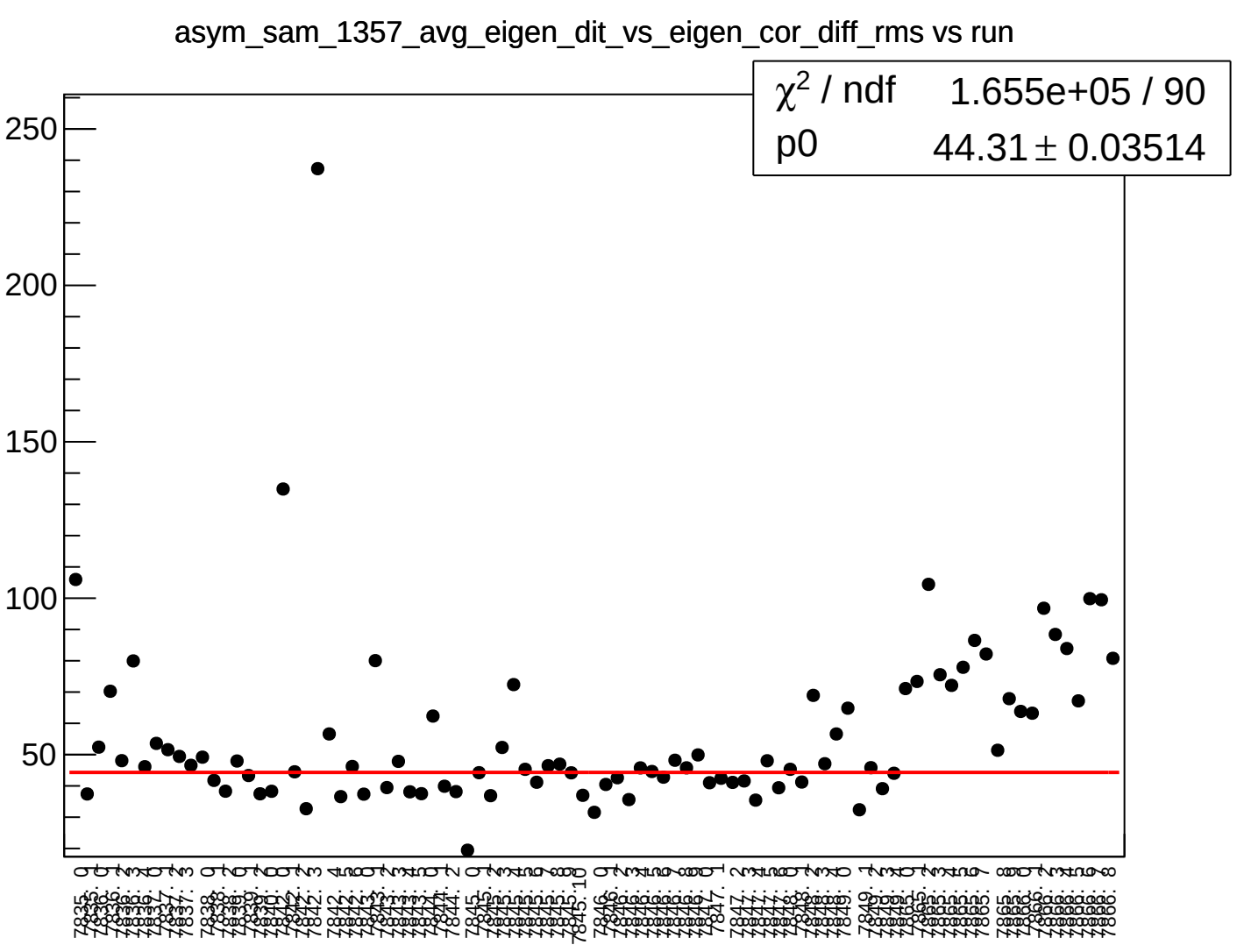

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.51 / 90
p0 3.493e−06 ± 2.133e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −806.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.004269
Std Dev 0.9973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

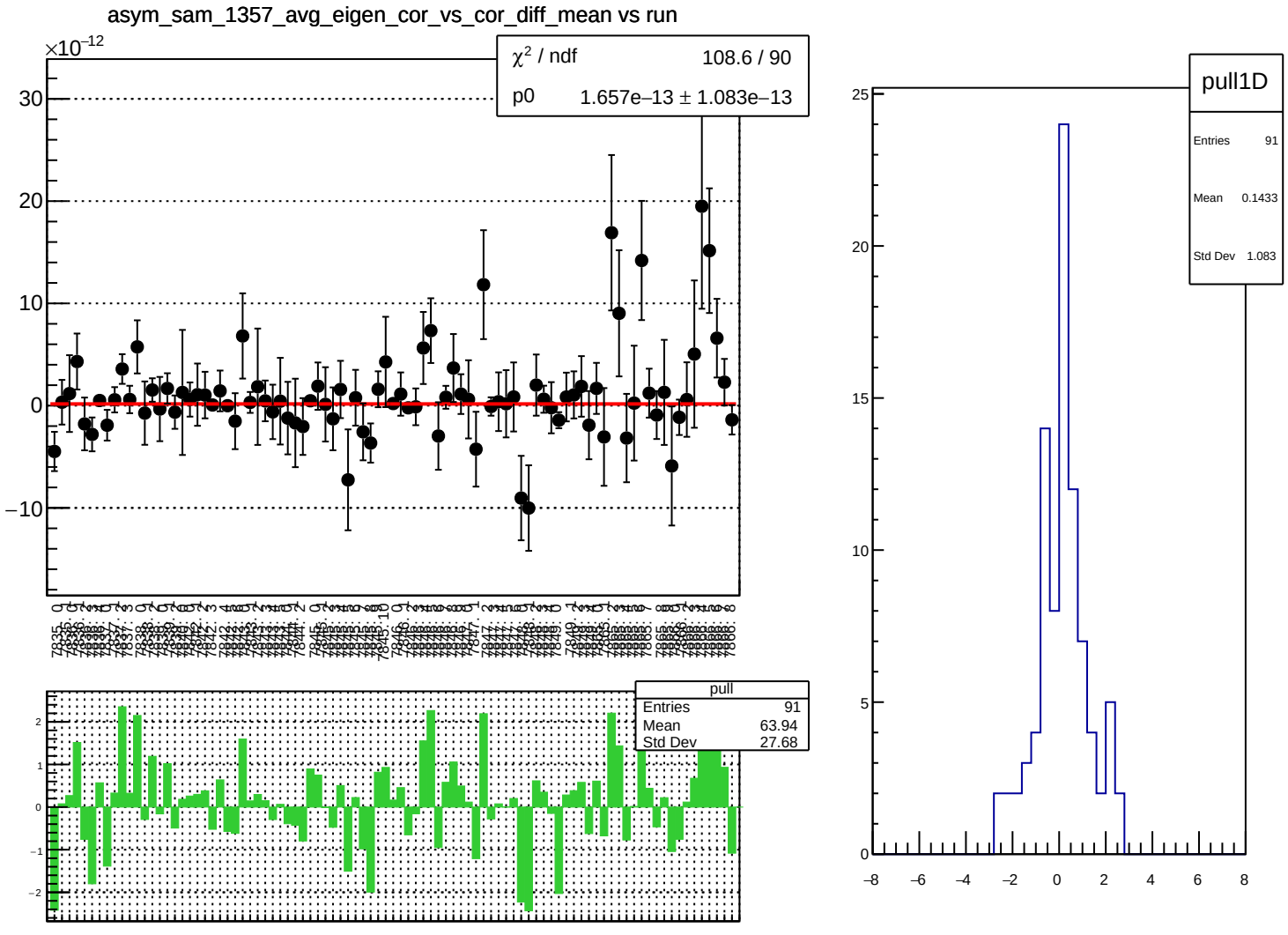

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.128e+05 / 90
p0 0.001933 ± 1.508e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

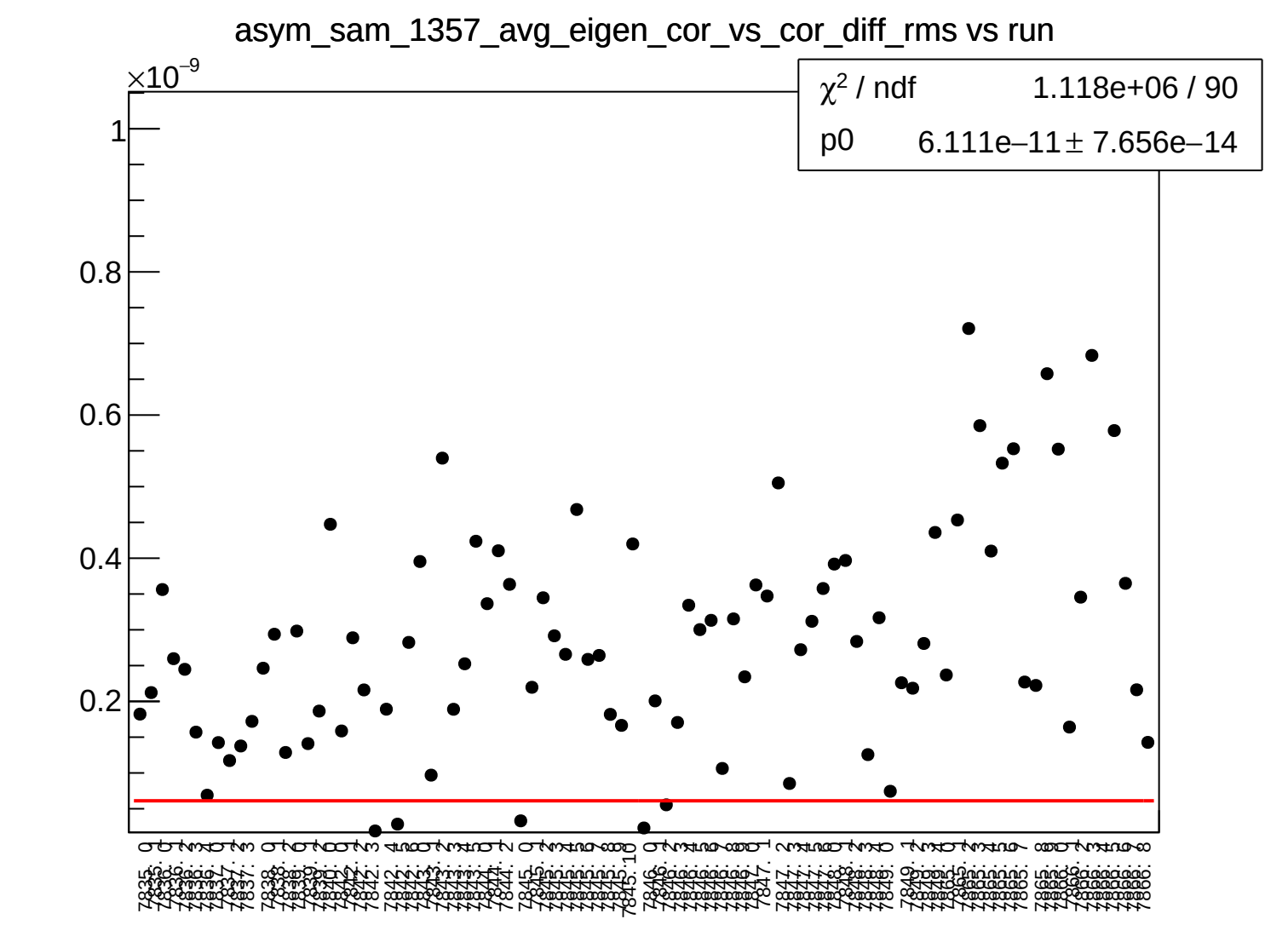

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 90
p0 −0.01261 ± 0.0497
pull
Entries 91
Mean 209.4
Std Dev 0
pull1D
Entries 91
Mean 0.01663
Std Dev 1.064

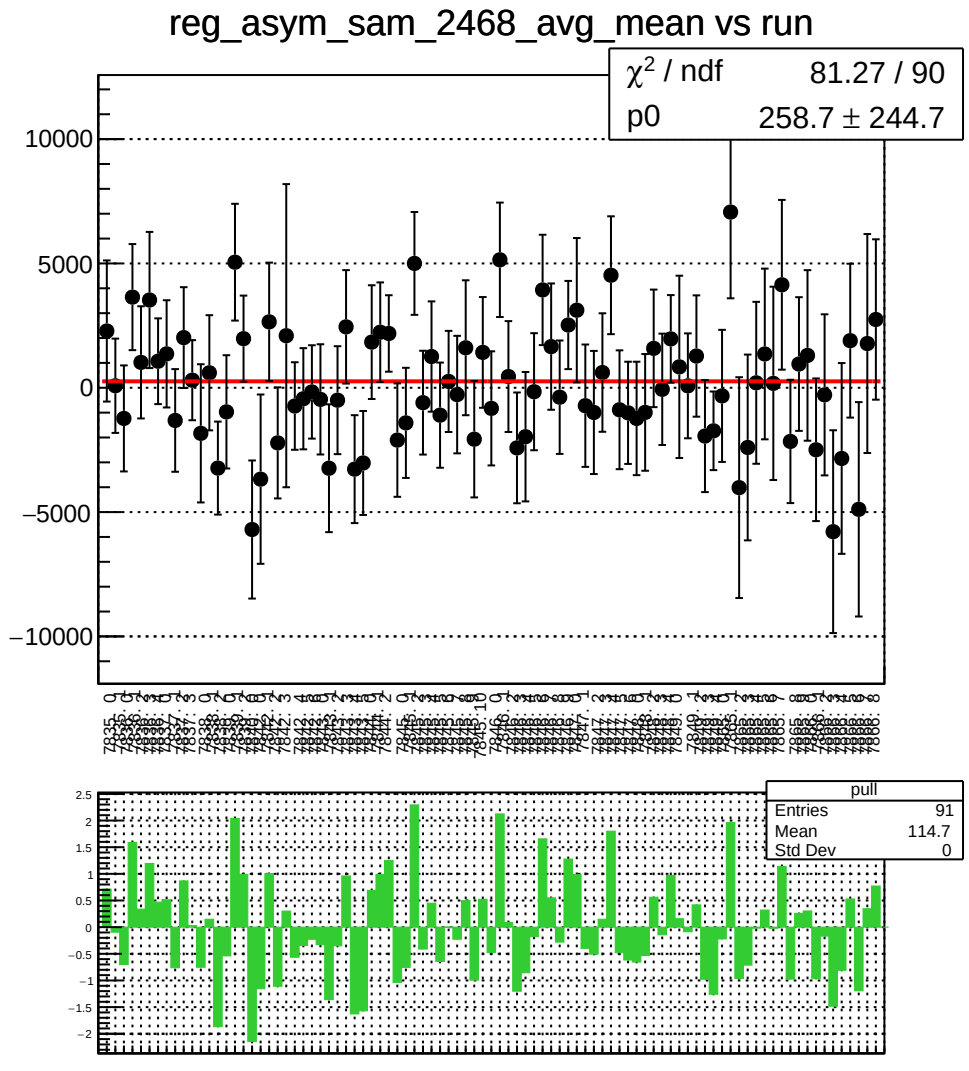

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.655e+05 / 90
p0 44.31 ± 0.03514
250
200
150
100
50

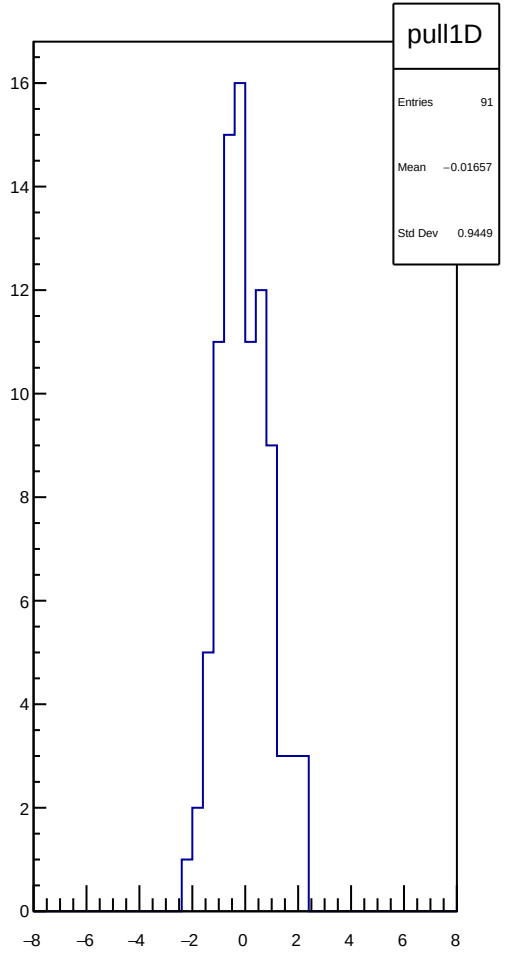

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 90
p0 −0.01261 ± 0.0497
pull
Entries 91
Mean 209.4
Std Dev 0
pull1D
Entries 91
Mean 0.01663
Std Dev 1.064

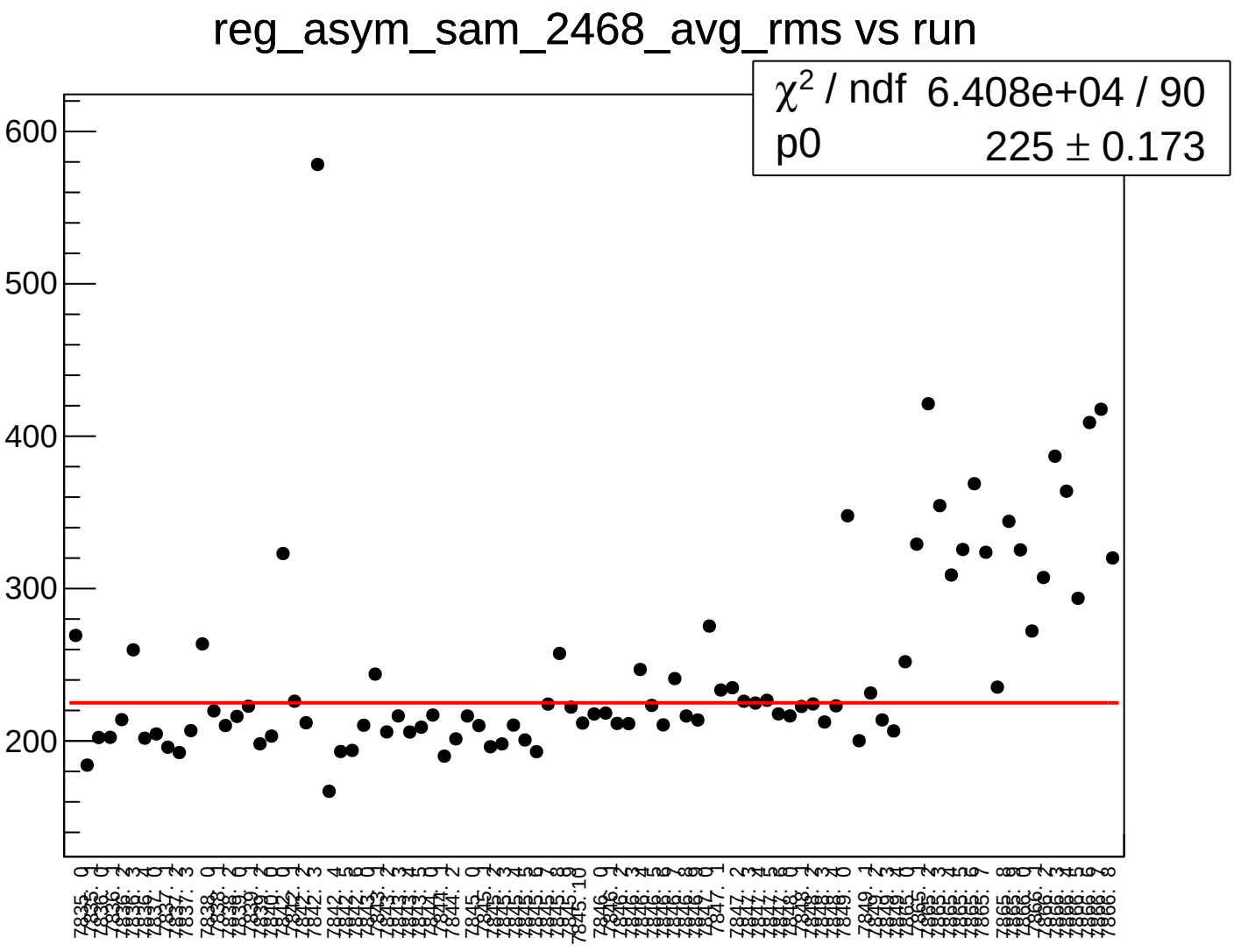

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.655e+05 / 90
p0 44.31 ± 0.03514
250
200
150
100
50

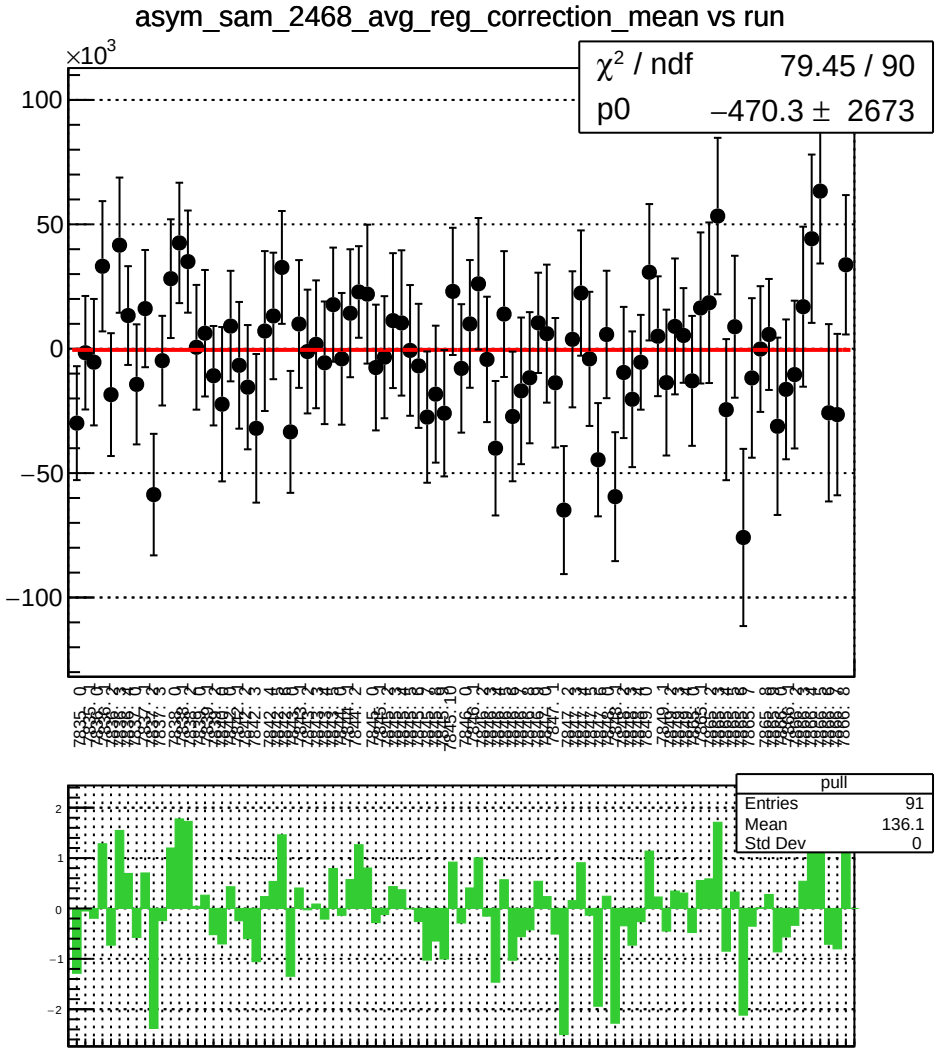

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.6 / 90
p0 1.657e−13 ± 1.083e−13
30
20
10
0
−10
pull
Entries 91
Mean 63.94
Std Dev 27.68
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1433
Std Dev 1.083
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

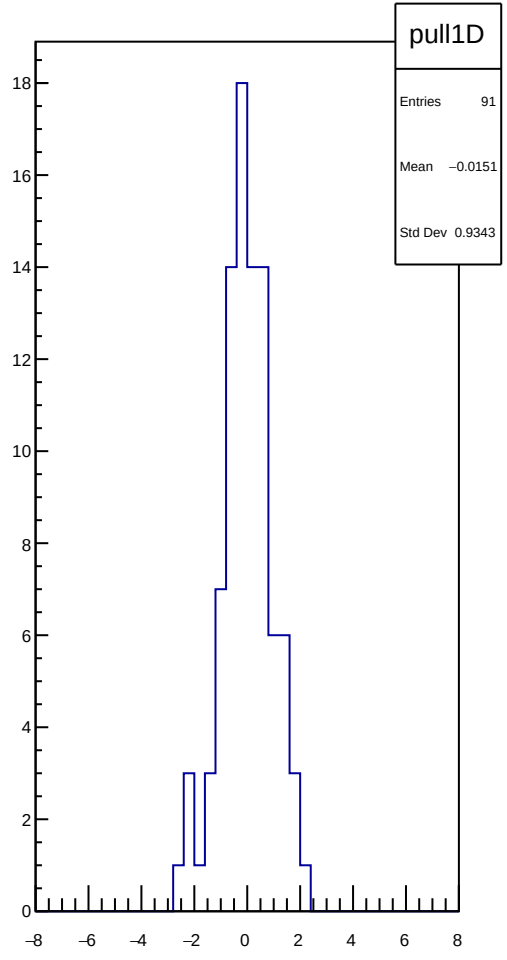

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.118e+06 / 90
p0 6.111e−11 ± 7.656e−14
1
0.8
0.6
0.4
0.2

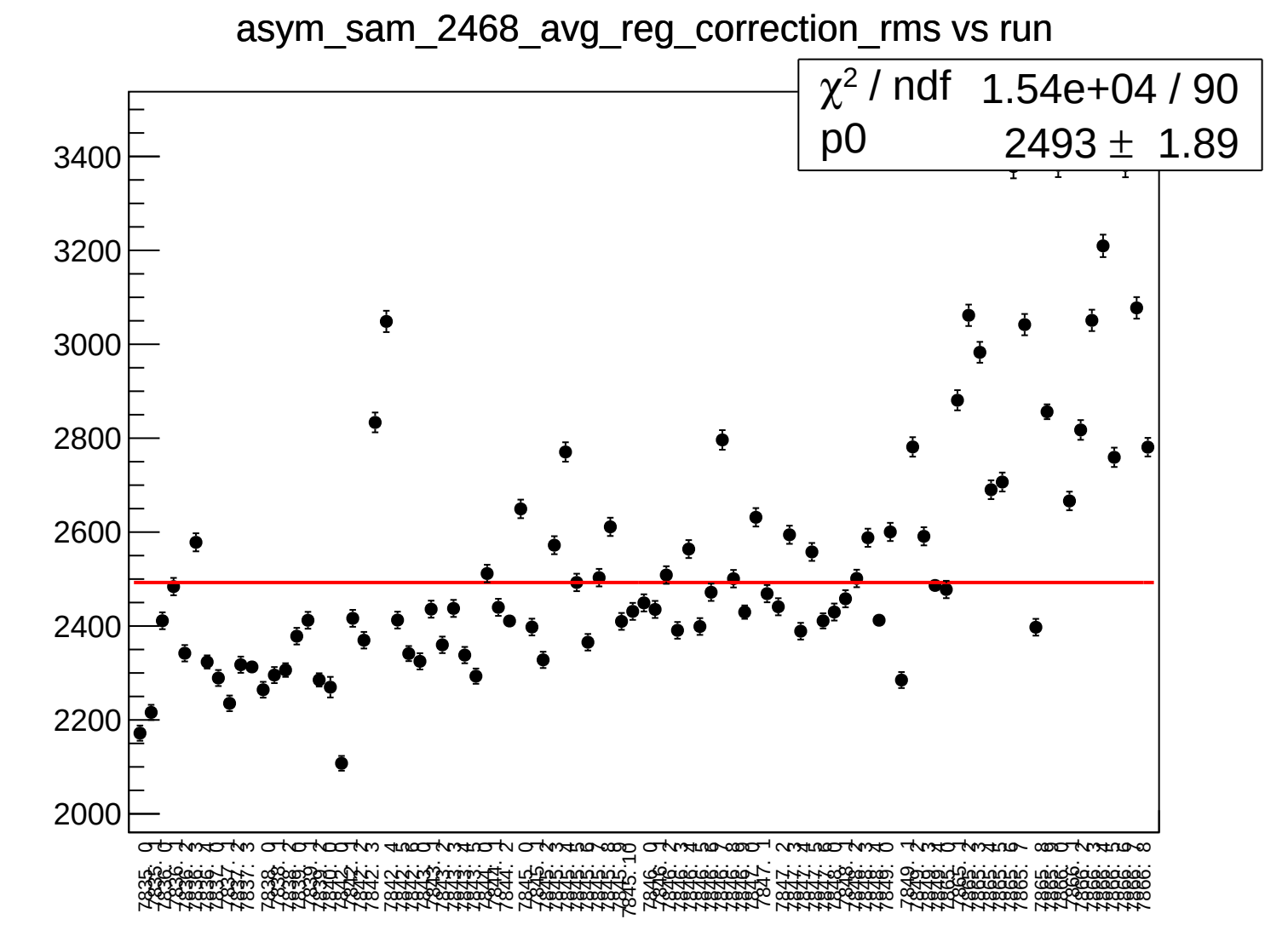

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 81.27 / 90
p0 258.7 ± 244.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 114.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

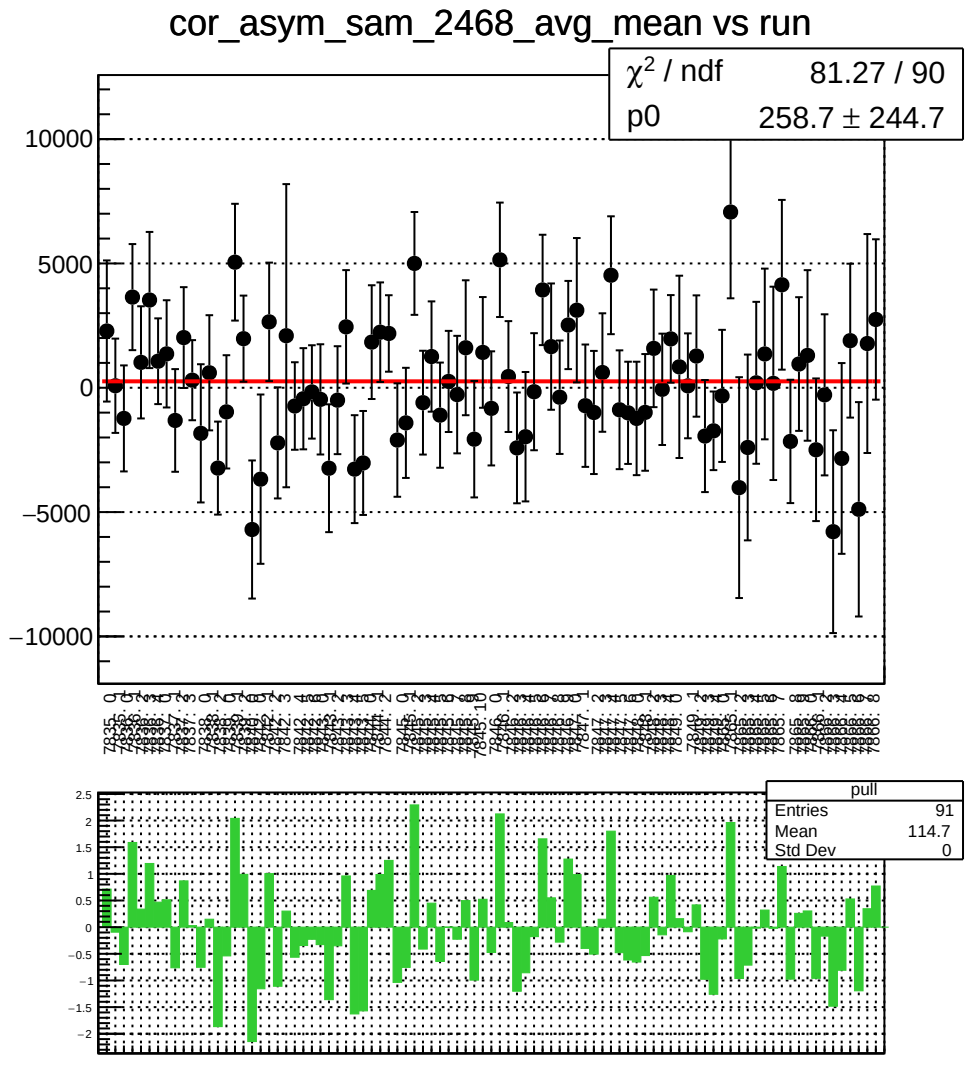

pull1D
Entries 91
Mean −0.01657
Std Dev 0.9449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

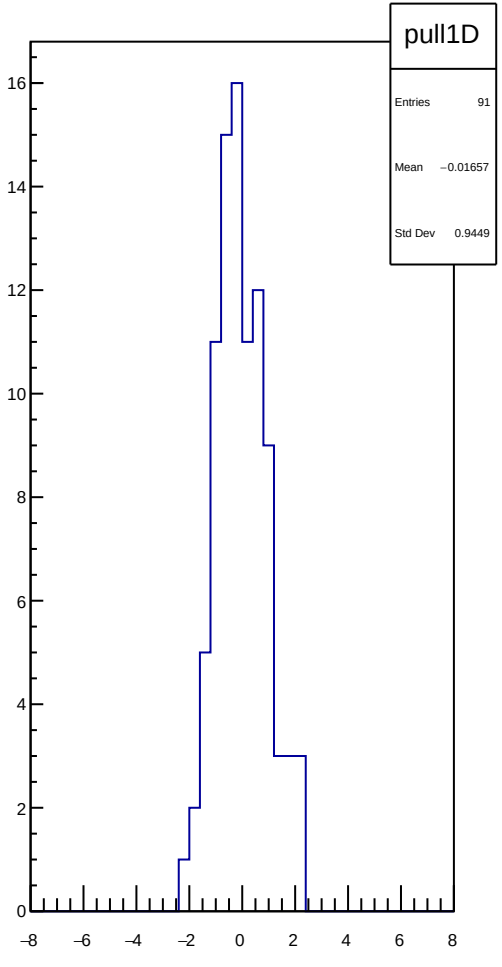

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.408e+04 / 90
p0 225 ± 0.173
600
500
400
300
200

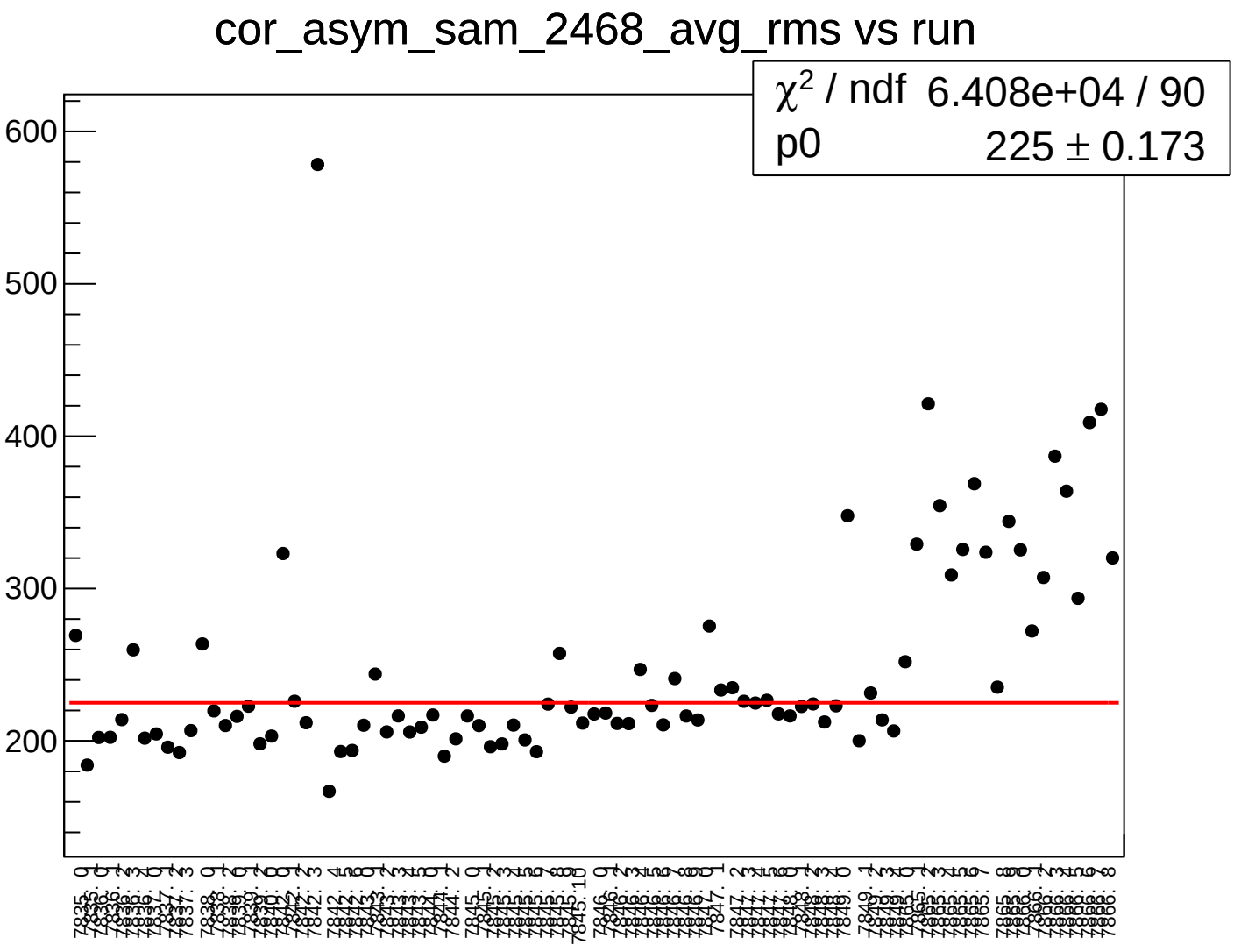

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.45 / 90
p0 −470.3 ± 2673
100
50
0
−50
−100
pull
Entries 91
Mean 136.1
Std Dev 0
2
1
0
−1
−2

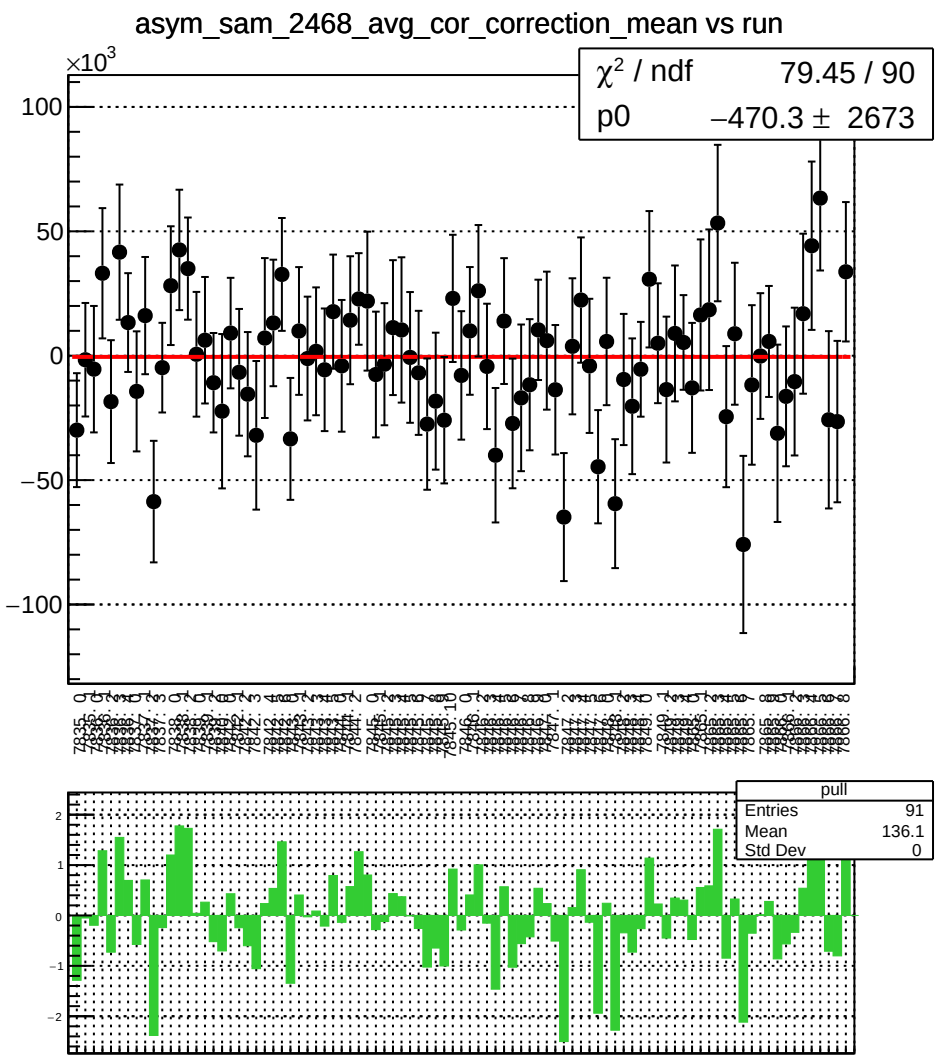

pull1D
Entries 91
Mean −0.0151
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

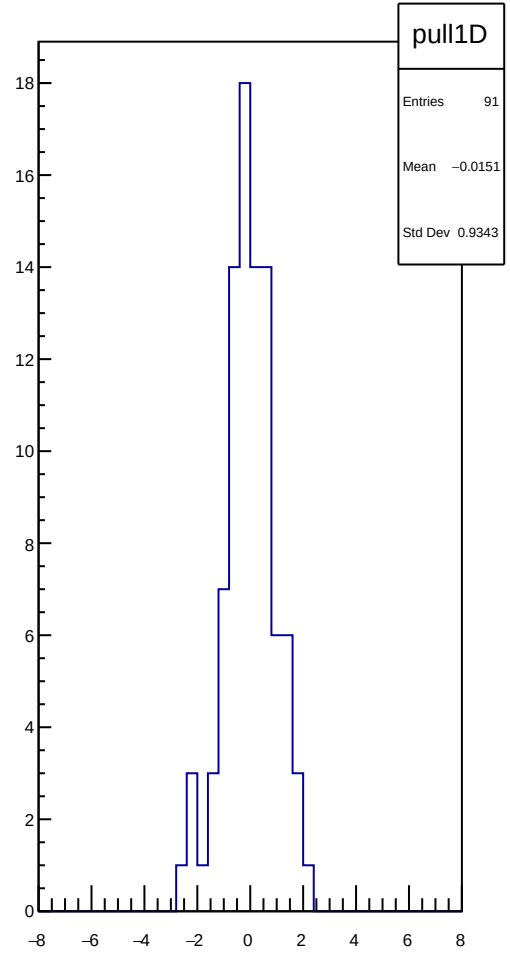

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.54e+04 / 90
p0 2493 ± 1.89
3400
3200
3000
2800
2600
2400
2200
2000

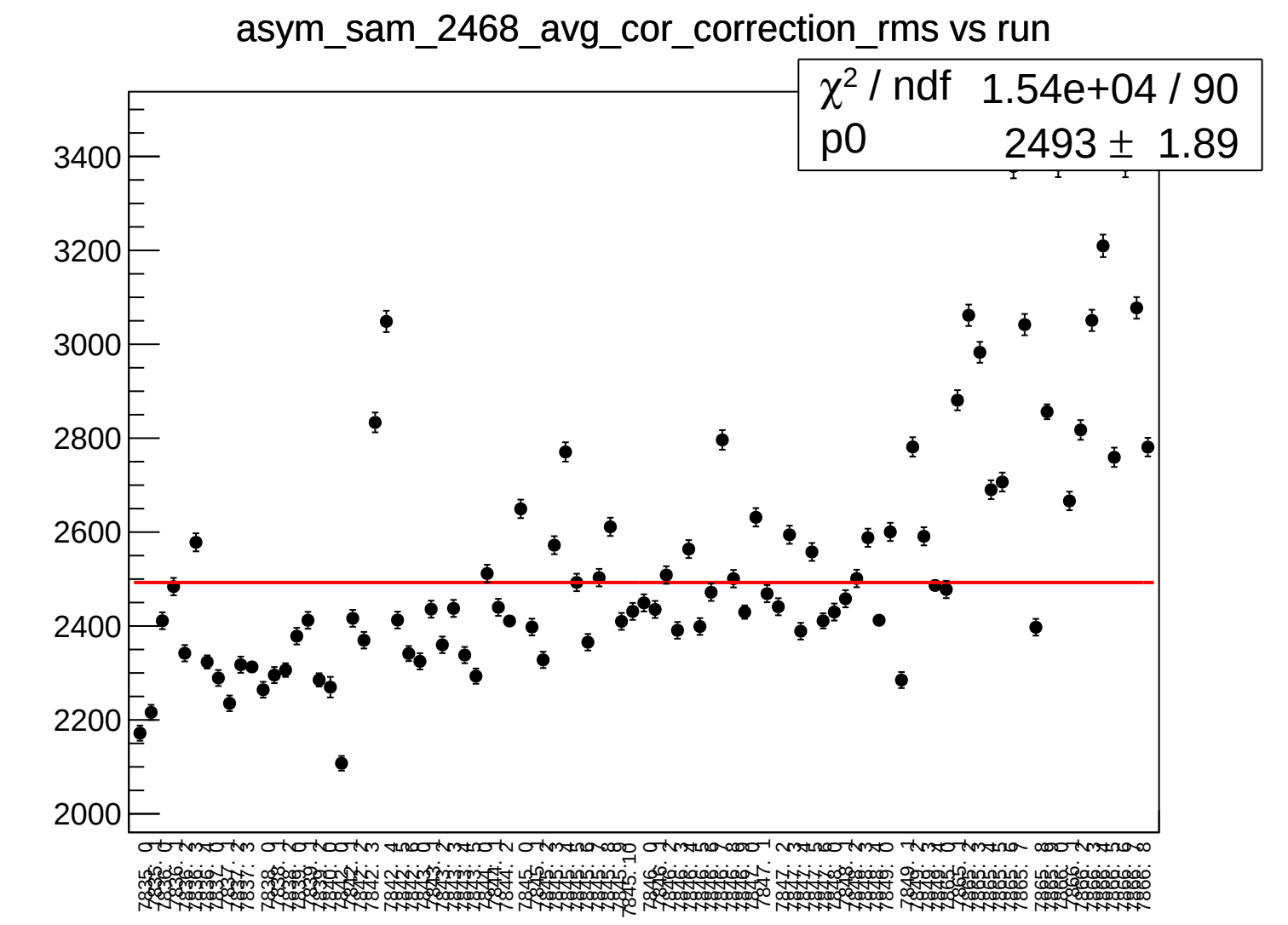

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 81.27 / 90
p0 258.7 ± 244.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 114.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

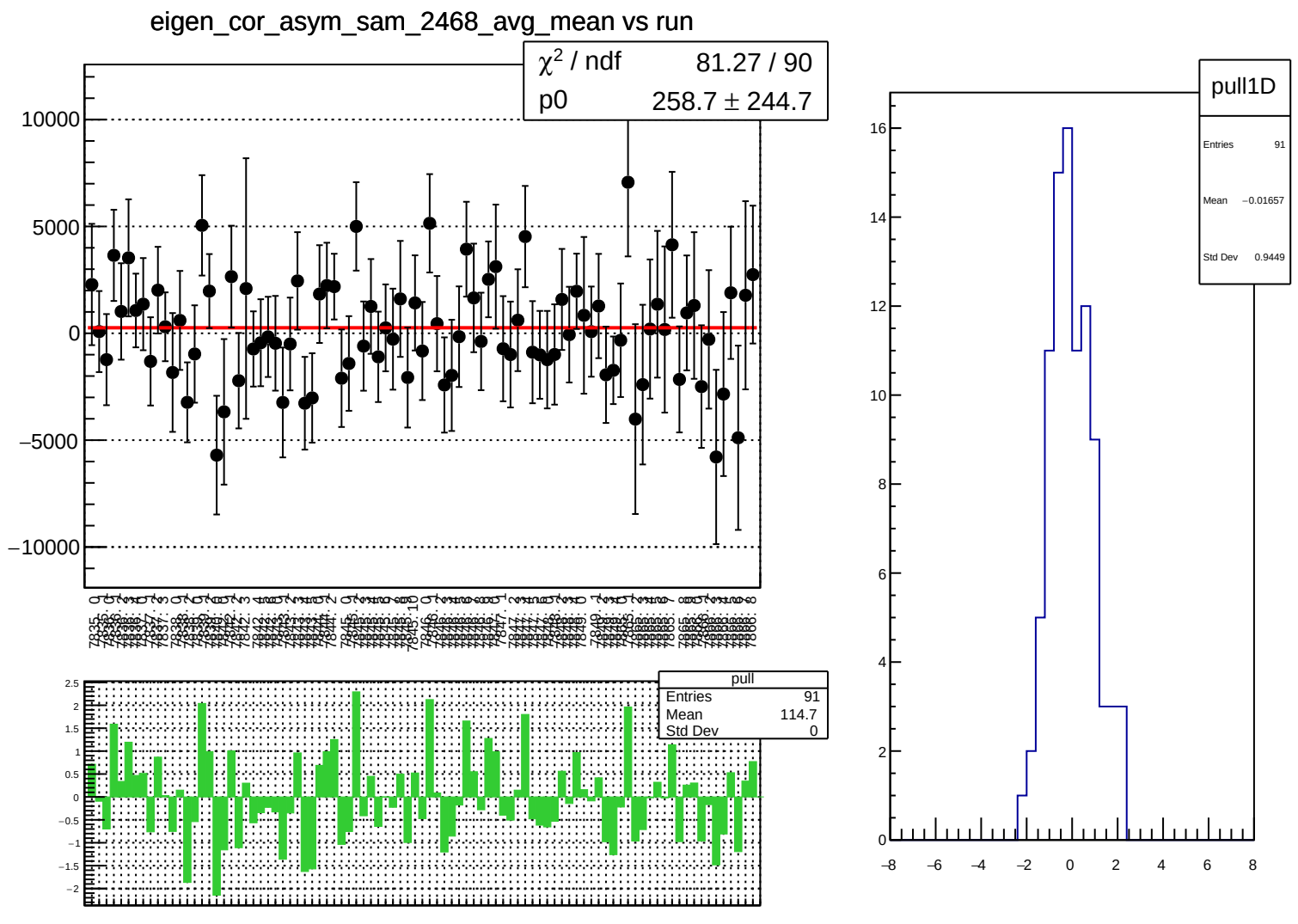

pull1D
Entries 91
Mean −0.01657
Std Dev 0.9449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

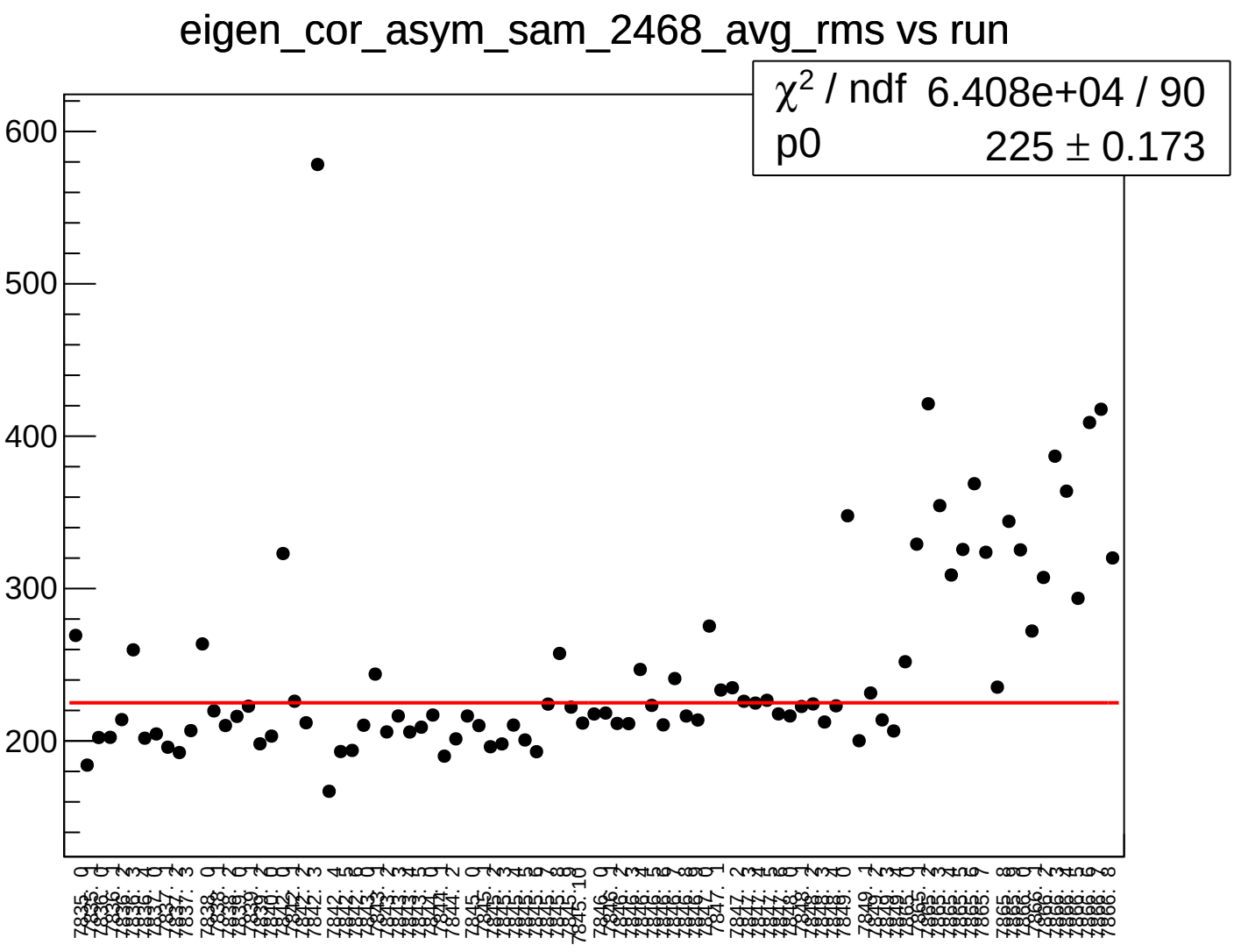

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.408e+04 / 90
p0 225 ± 0.173
600
500
400
300
200

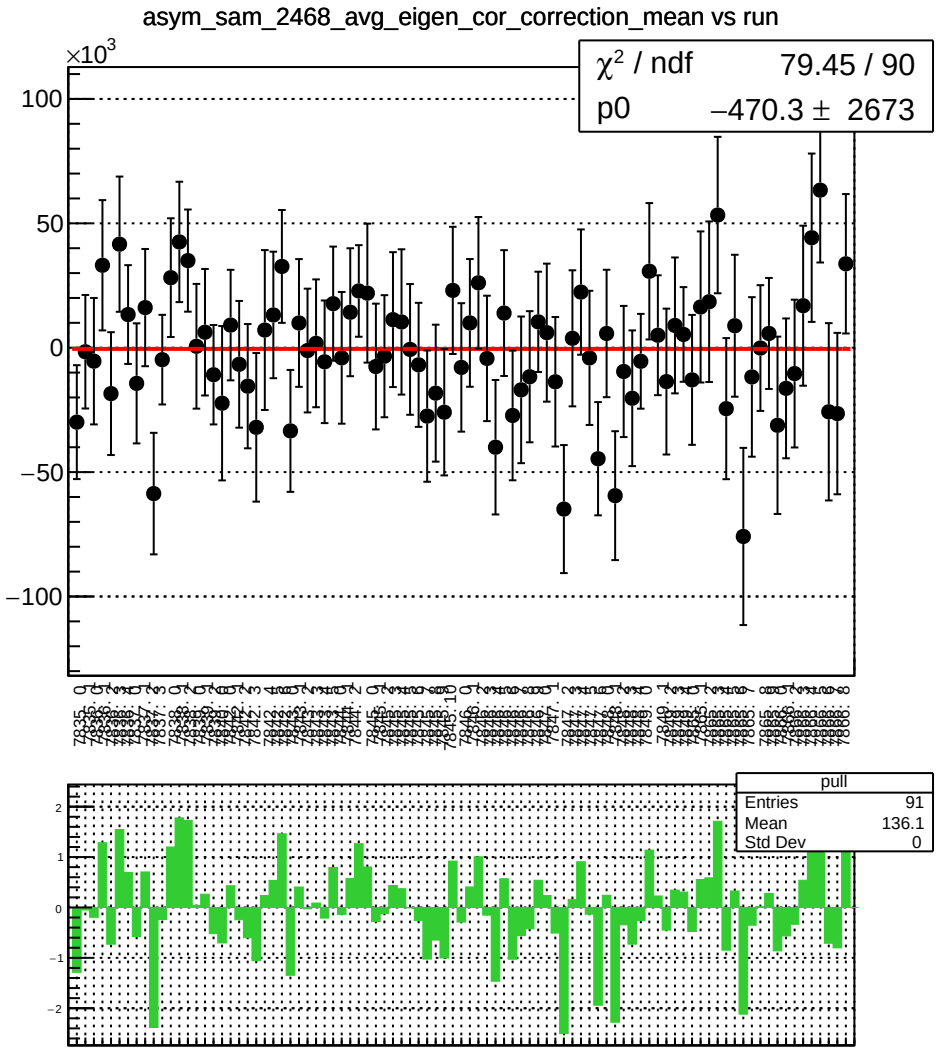

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.45 / 90
p0 −470.3 ± 2673
100
50
0
−50
−100
pull
Entries 91
Mean 136.1
Std Dev 0
2
1
0
−1
−2

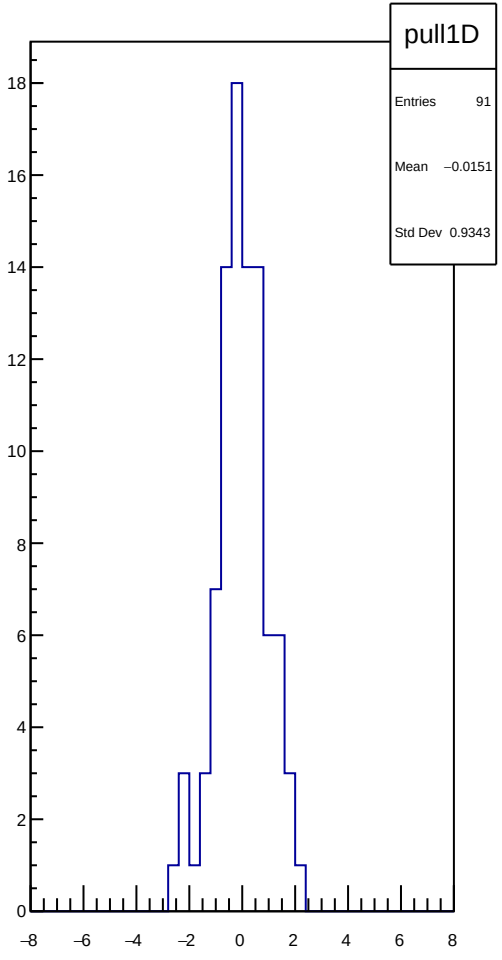

pull1D
Entries 91
Mean −0.0151
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

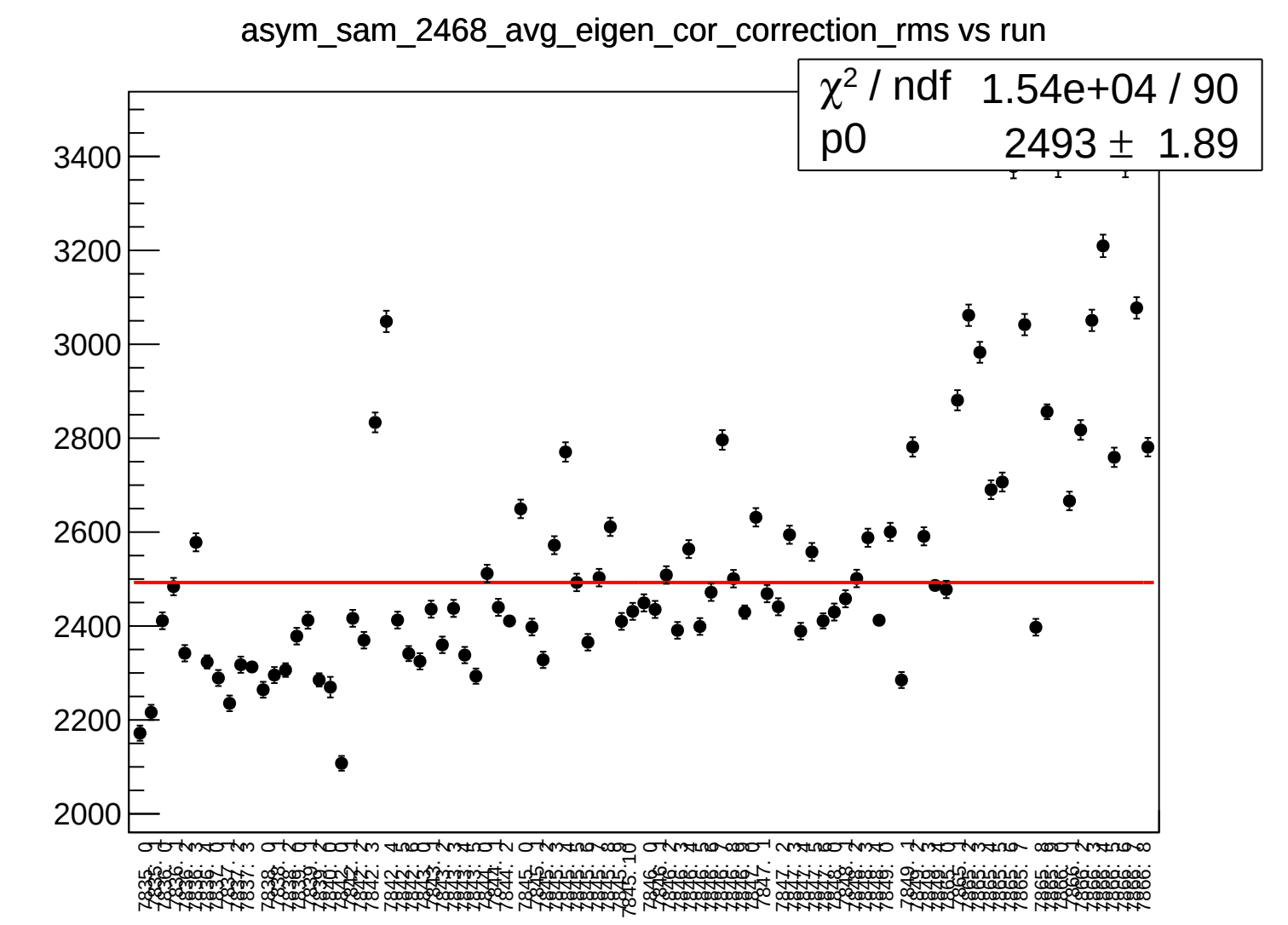

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.54e+04 / 90
p0 2493 ± 1.89
3400
3200
3000
2800
2600
2400
2200
2000

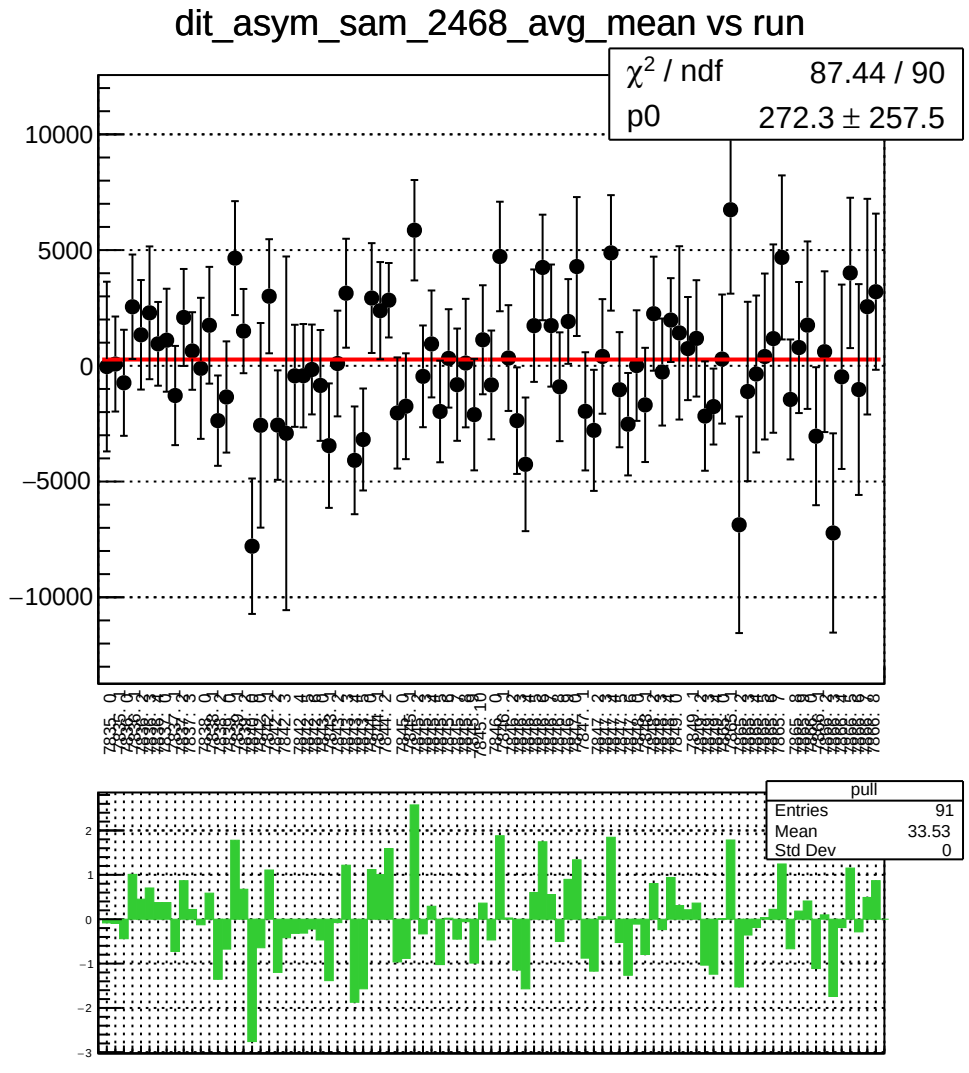

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 81.27 / 90
p0 258.7 ± 244.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 114.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.01657
Std Dev 0.9449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

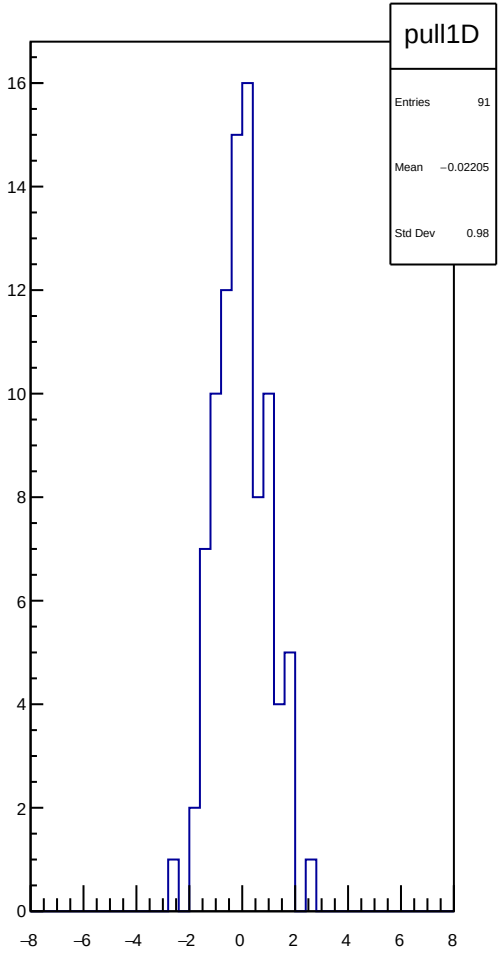

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.408e+04 / 90
p0 225 ± 0.173
600
500
400
300
200

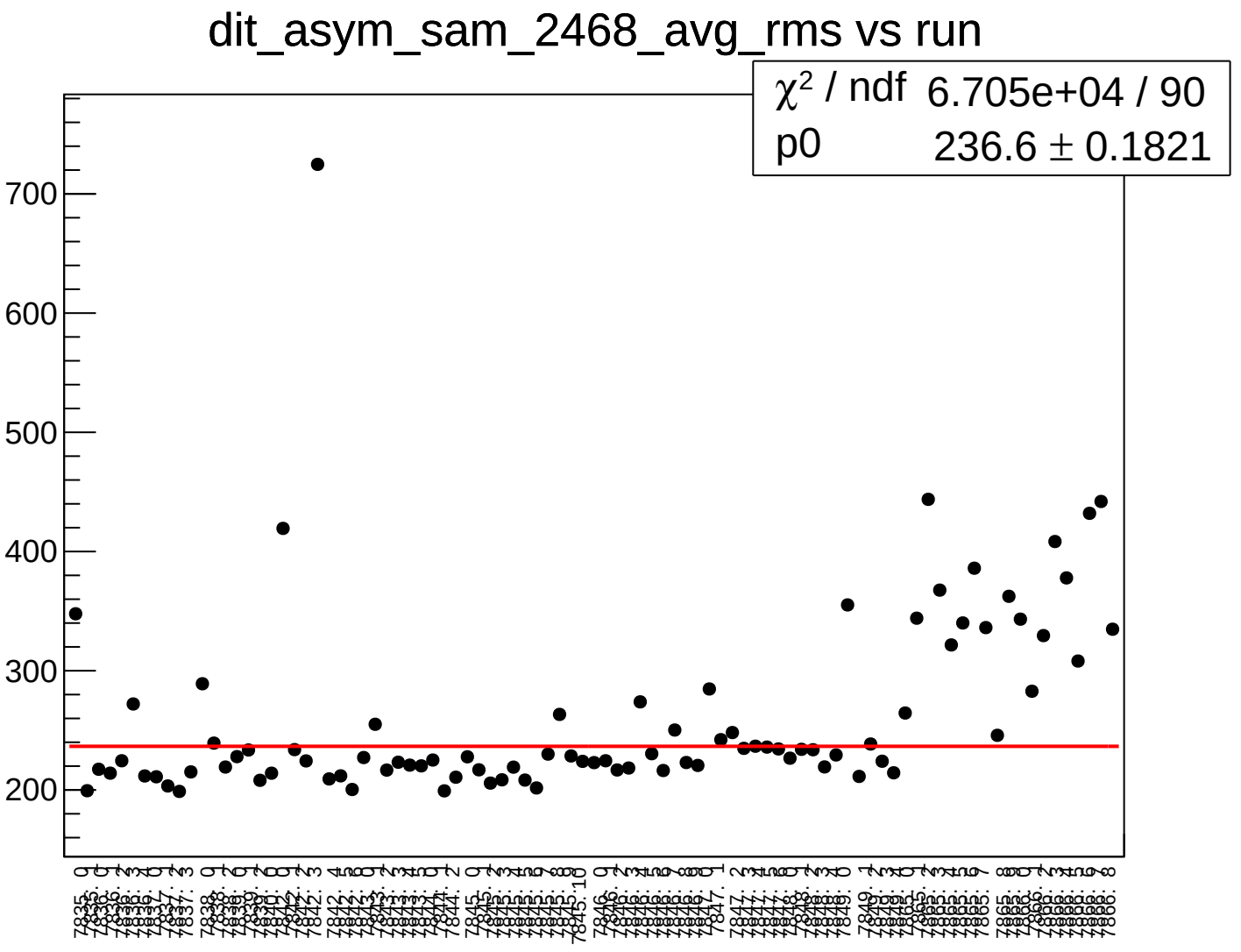

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.45 / 90
p0 −470.3 ± 2673
100
50
0
−50
−100
pull
Entries 91
Mean 136.1
Std Dev 0
2
1
0
−1
−2

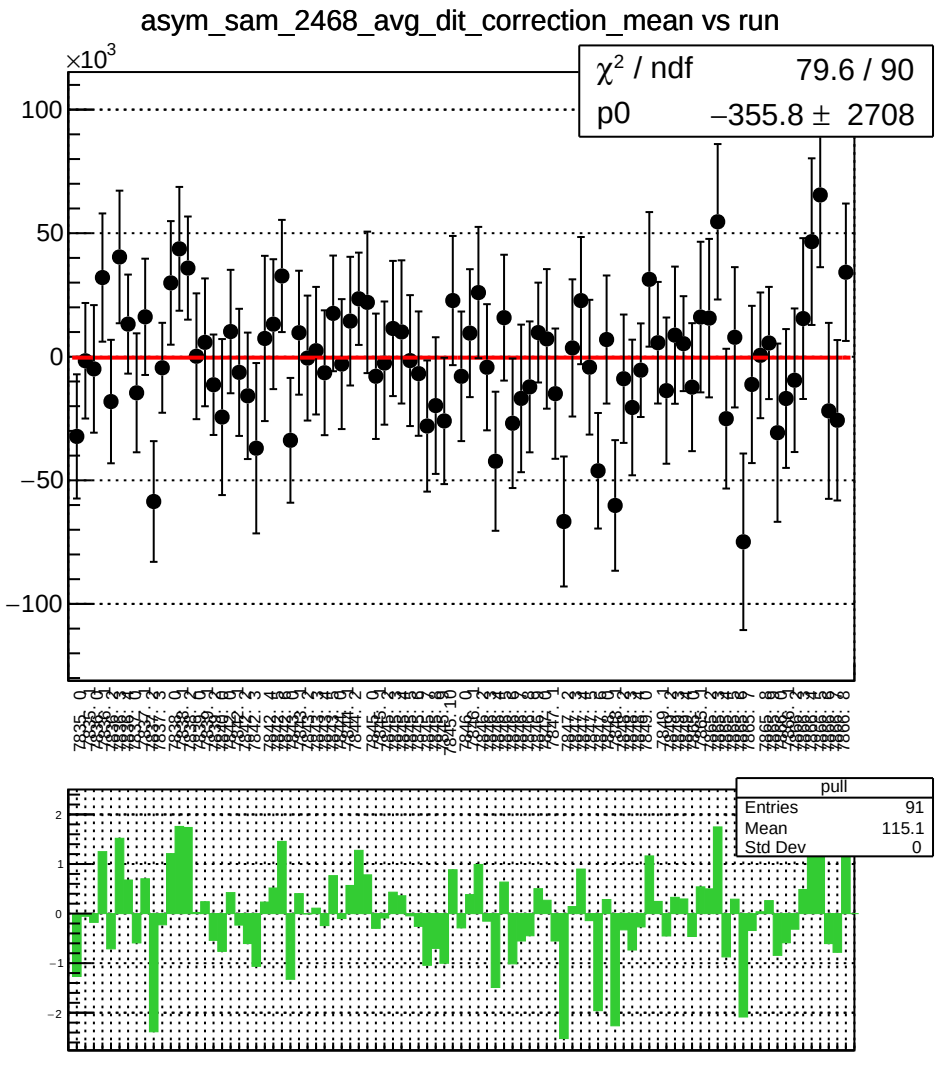

pull1D
Entries 91
Mean −0.0151
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

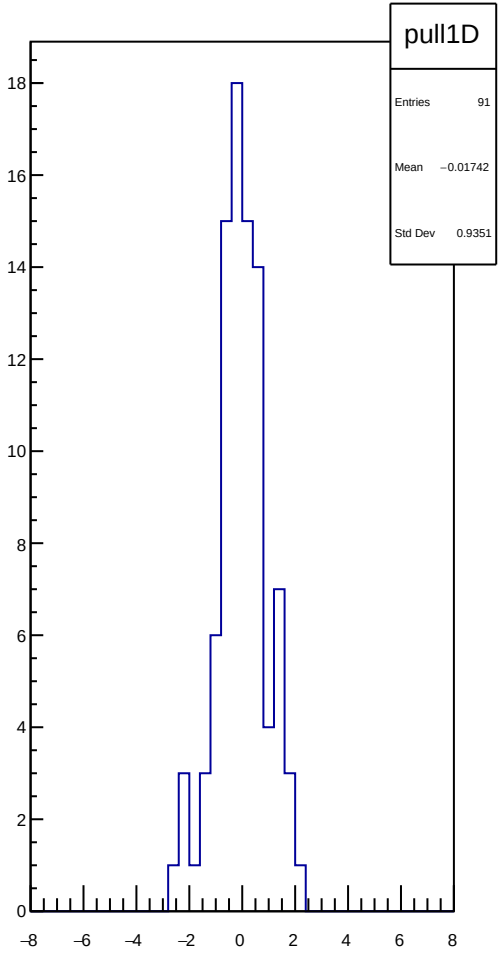

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.54e+04 / 90
p0 2493 ± 1.89
3400
3200
3000
2800
2600
2400
2200
2000

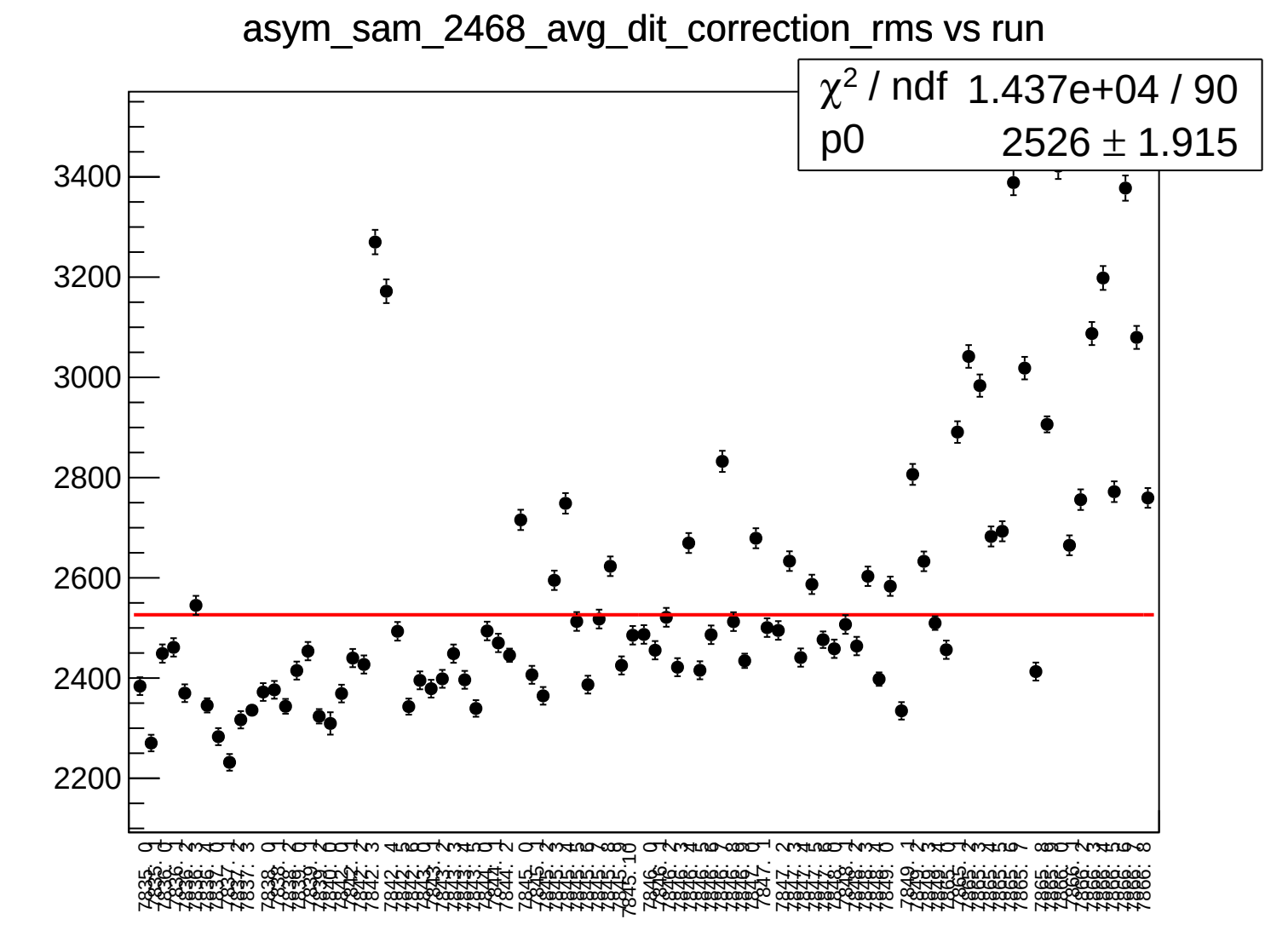

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 87.44 / 90
p0 272.3 ± 257.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 33.53
Std Dev 0
2
1
0
−1
−2
−3

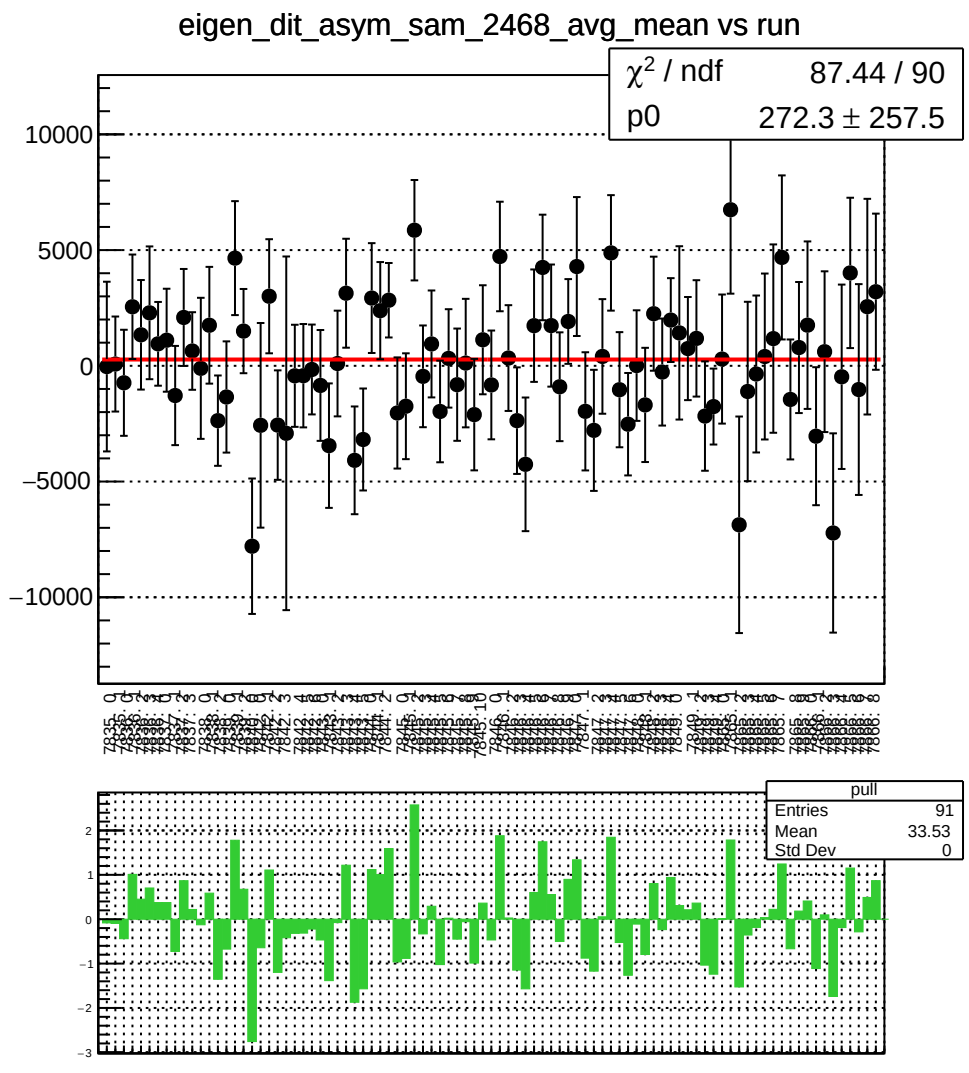

pull1D
Entries 91
Mean −0.02205
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

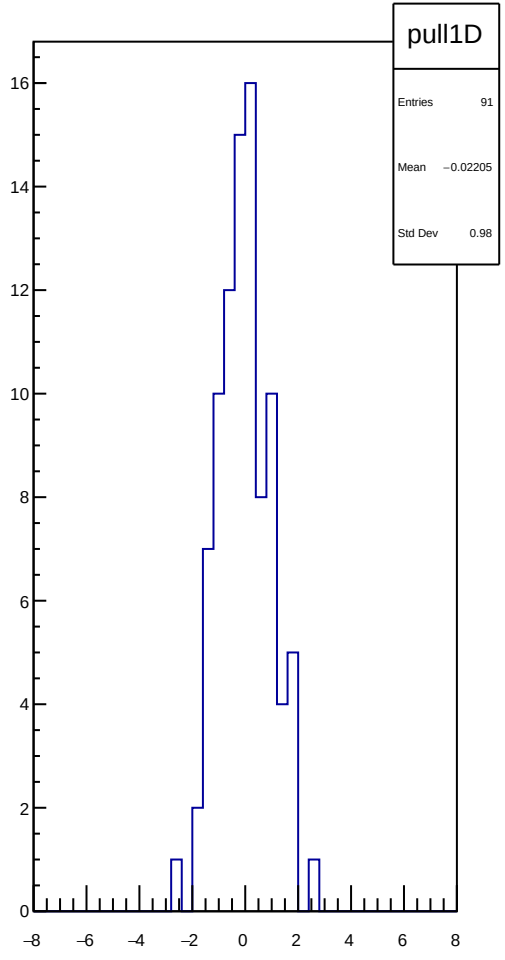

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 6.705e+04 / 90
p0 236.6 ± 0.1821
700
600
500
400
300
200

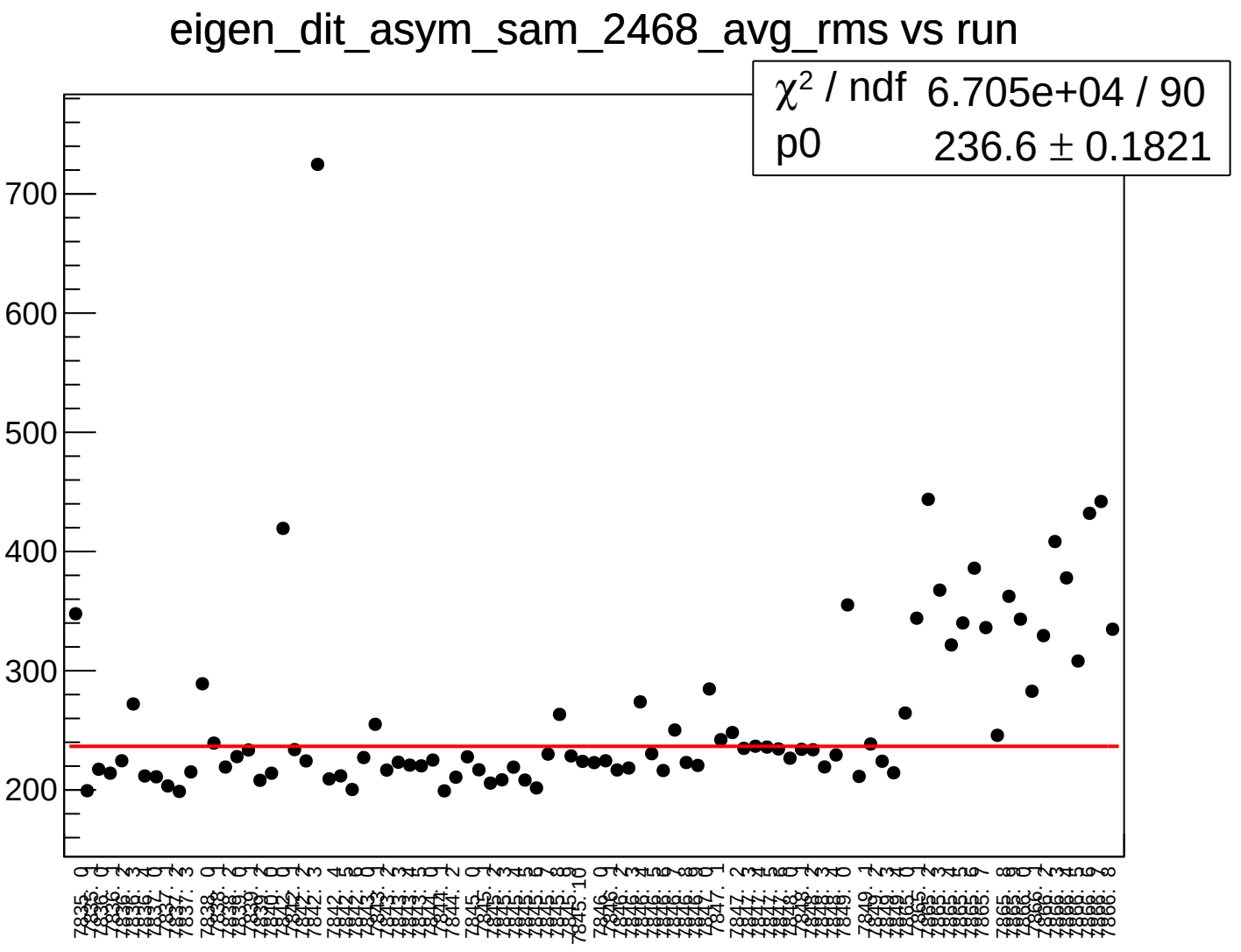

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.6 / 90
p0 −355.8 ± 2708
pull
Entries 91
Mean 115.1
Std Dev 0

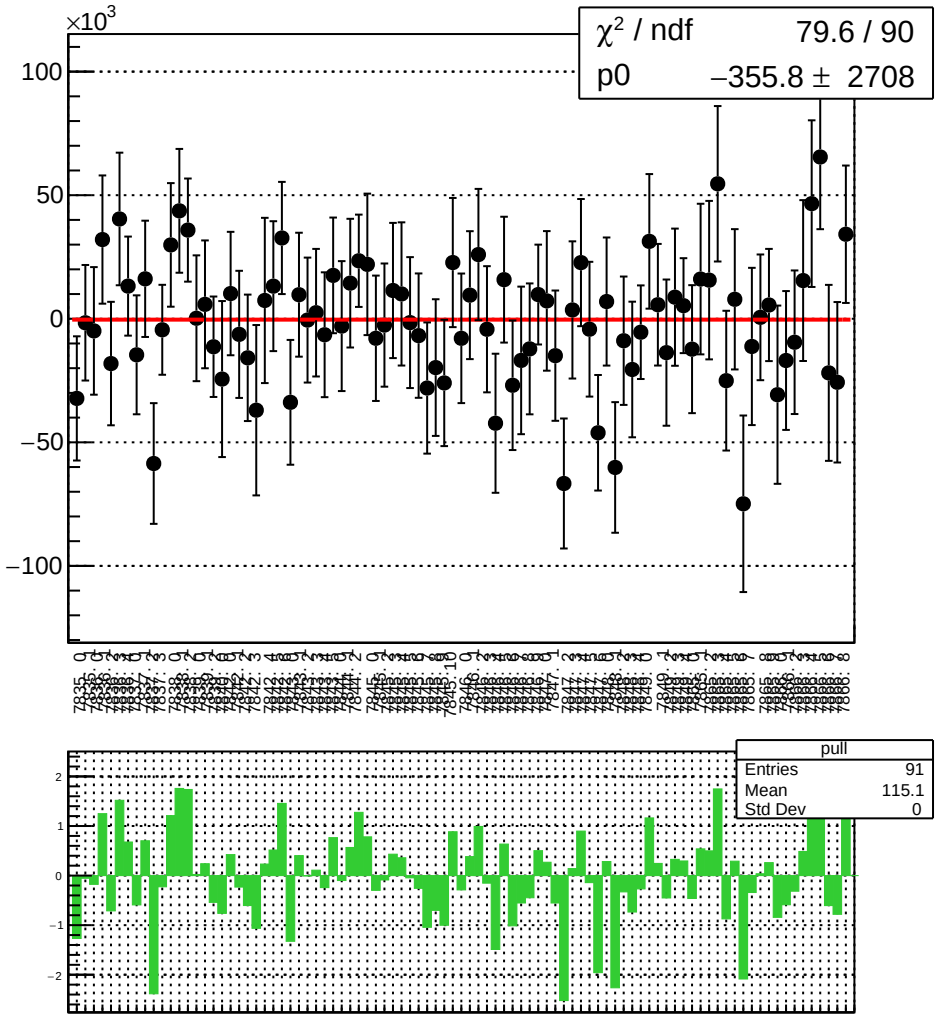

pull1D
Entries 91
Mean −0.01742
Std Dev 0.9351

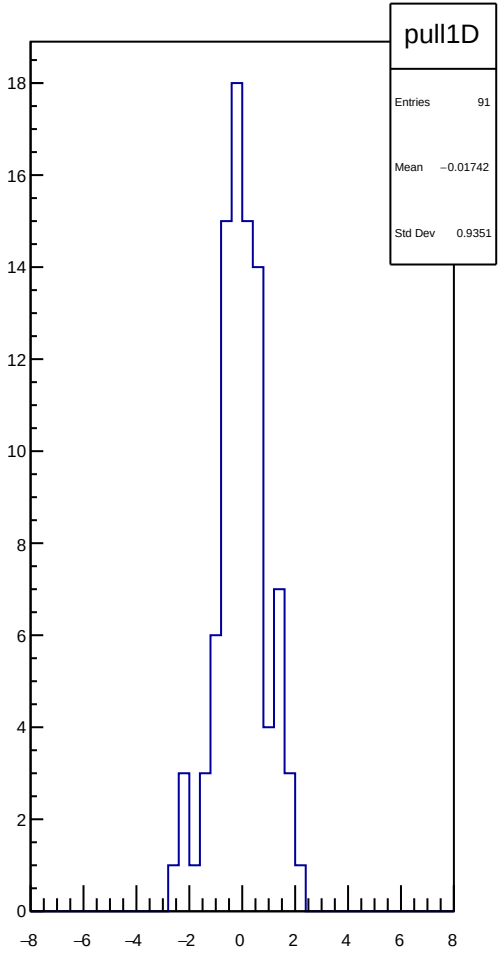

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 90
p0 2526 ± 1.915
3400
3200
3000
2800
2600
2400
2200

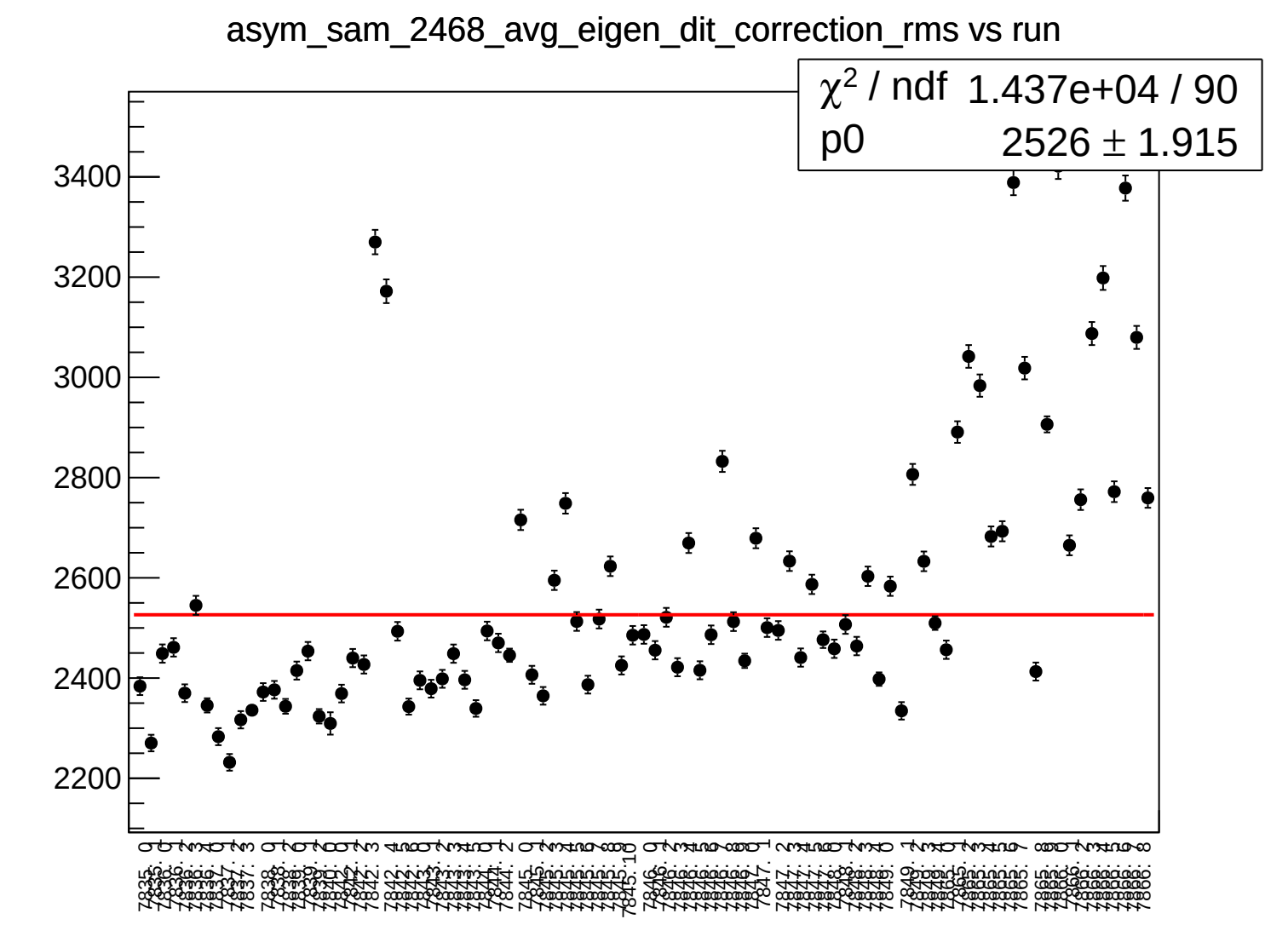

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 87.44 / 90
p0 272.3 ± 257.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 33.53
Std Dev 0
2
1
0
−1
−2
−3

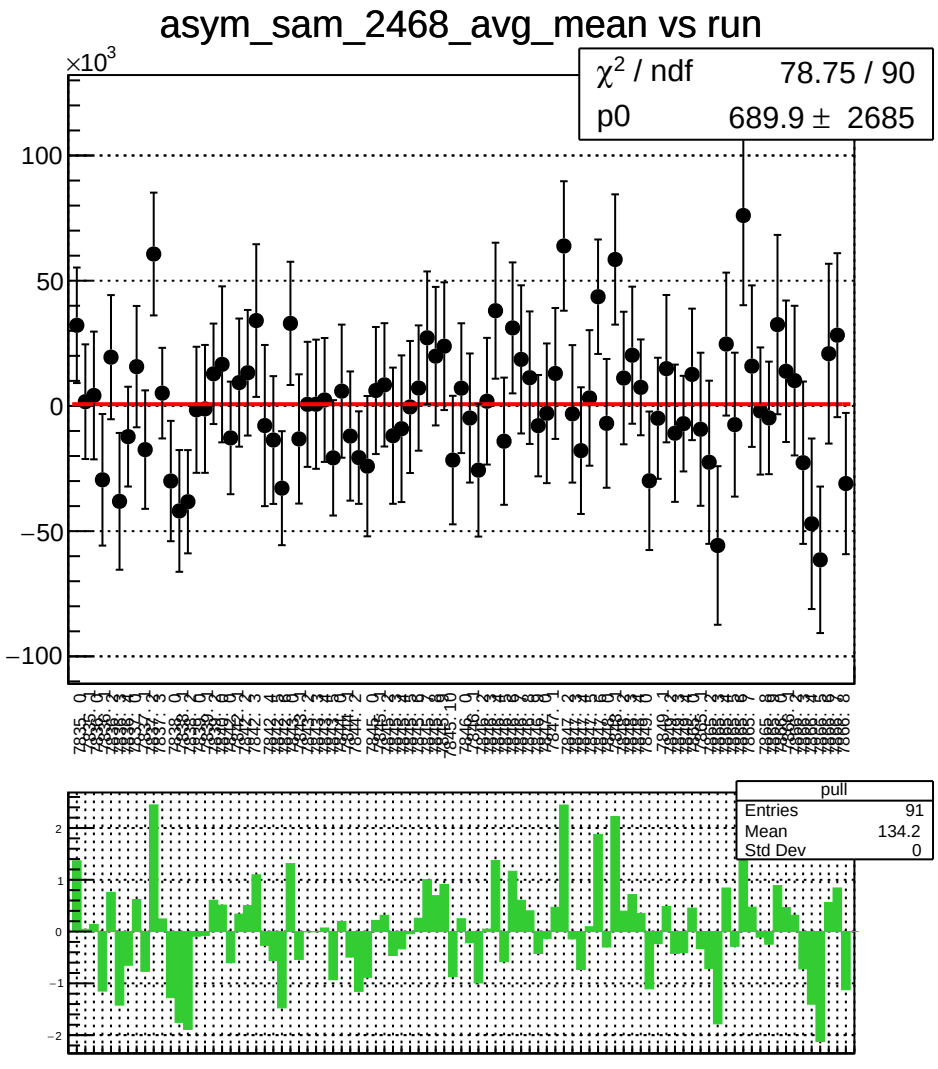

pull1D
Entries 91
Mean −0.02205
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

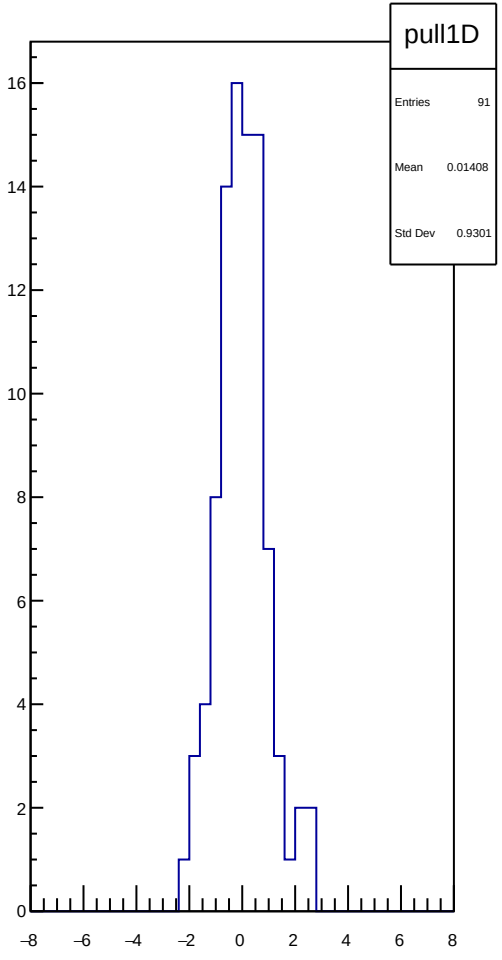

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 6.705e+04 / 90
p0 236.6 ± 0.1821
700
600
500
400
300
200

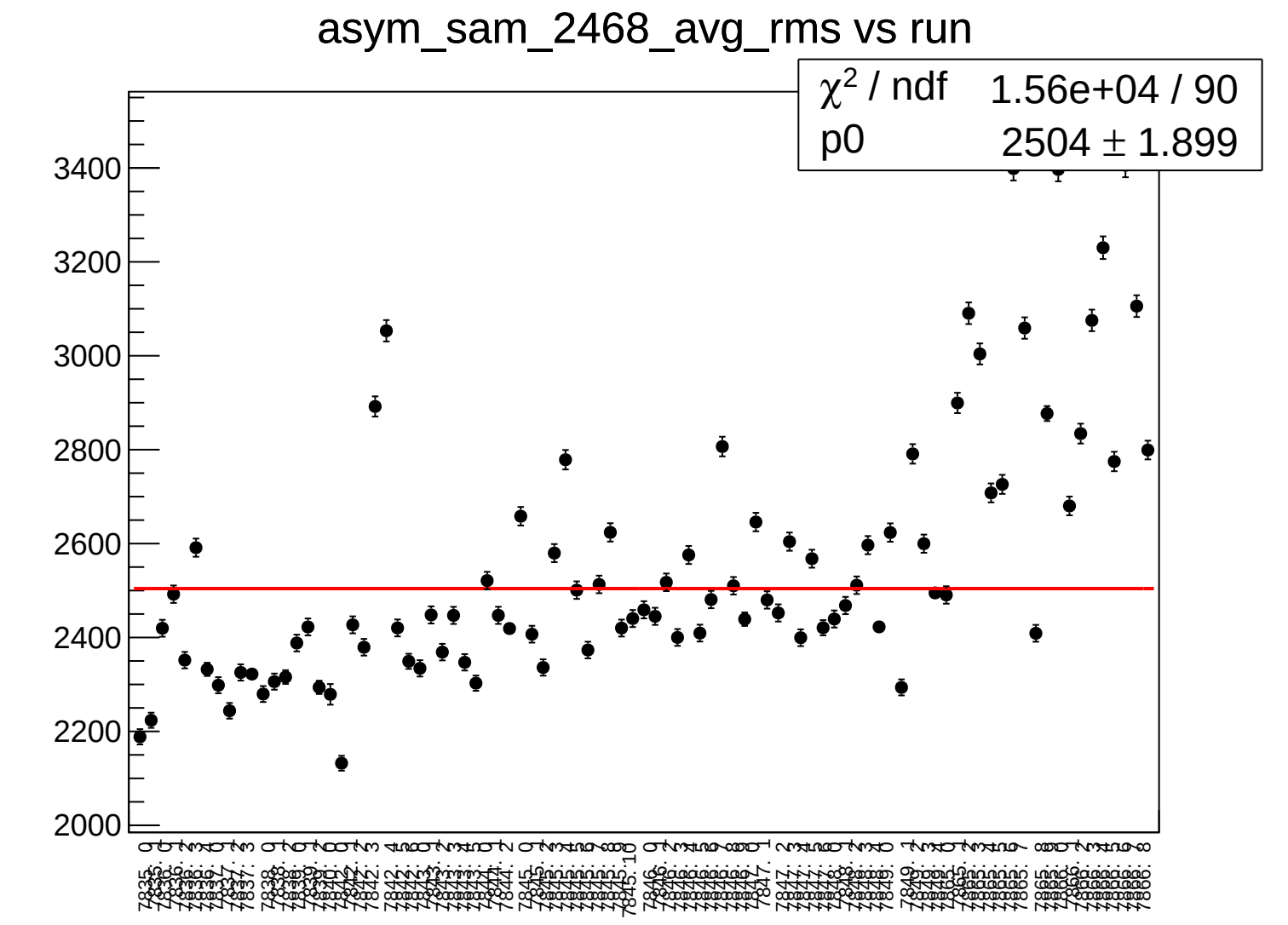

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.6 / 90
p0 −355.8 ± 2708
pull
Entries 91
Mean 115.1
Std Dev 0

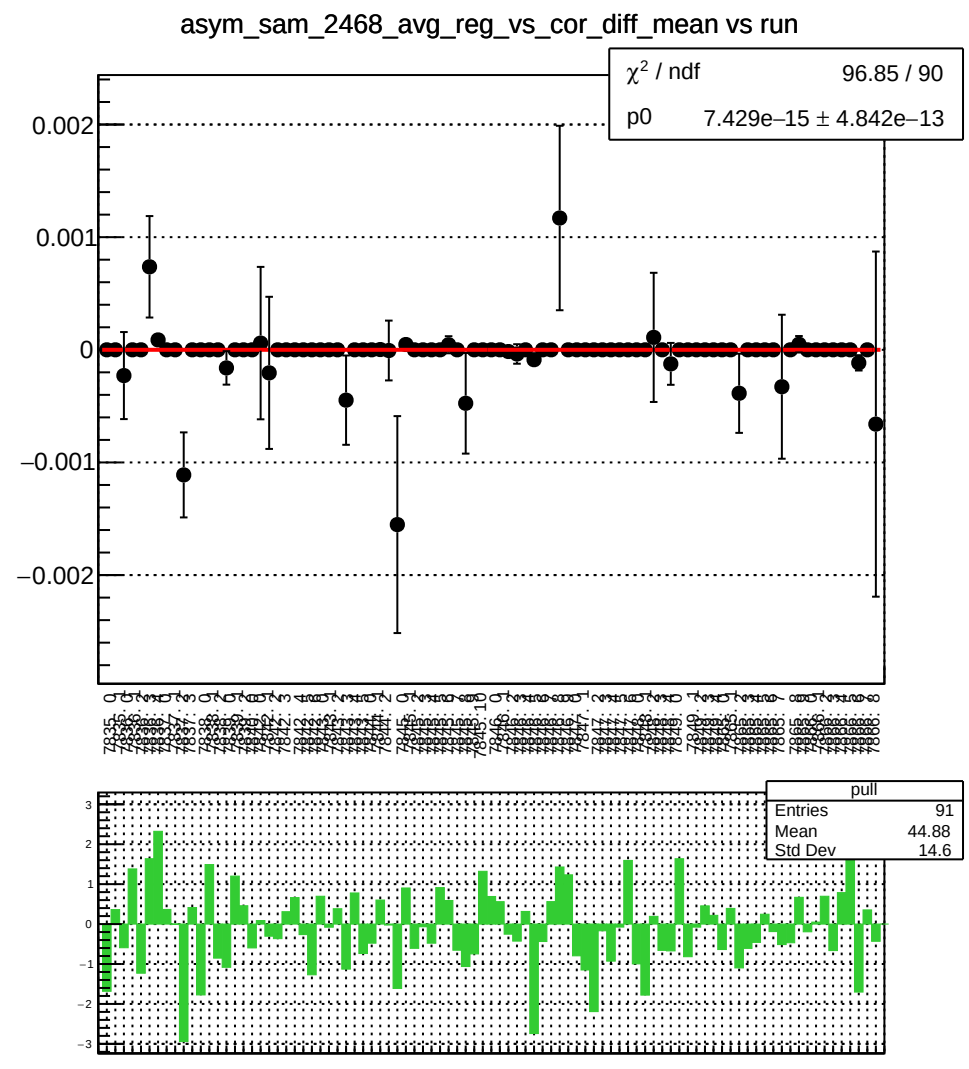

pull1D
Entries 91
Mean −0.01742
Std Dev 0.9351

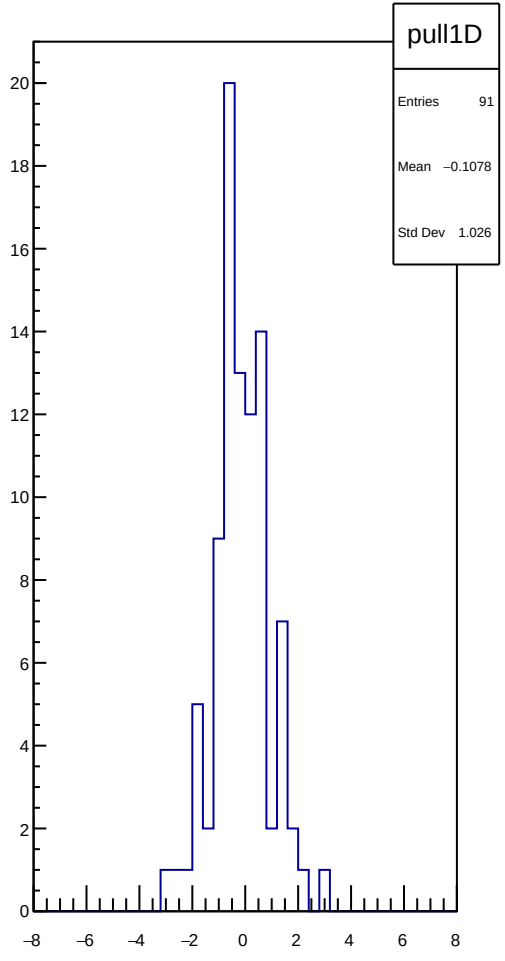

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 90
p0 2526 ± 1.915
3400
3200
3000
2800
2600
2400
2200

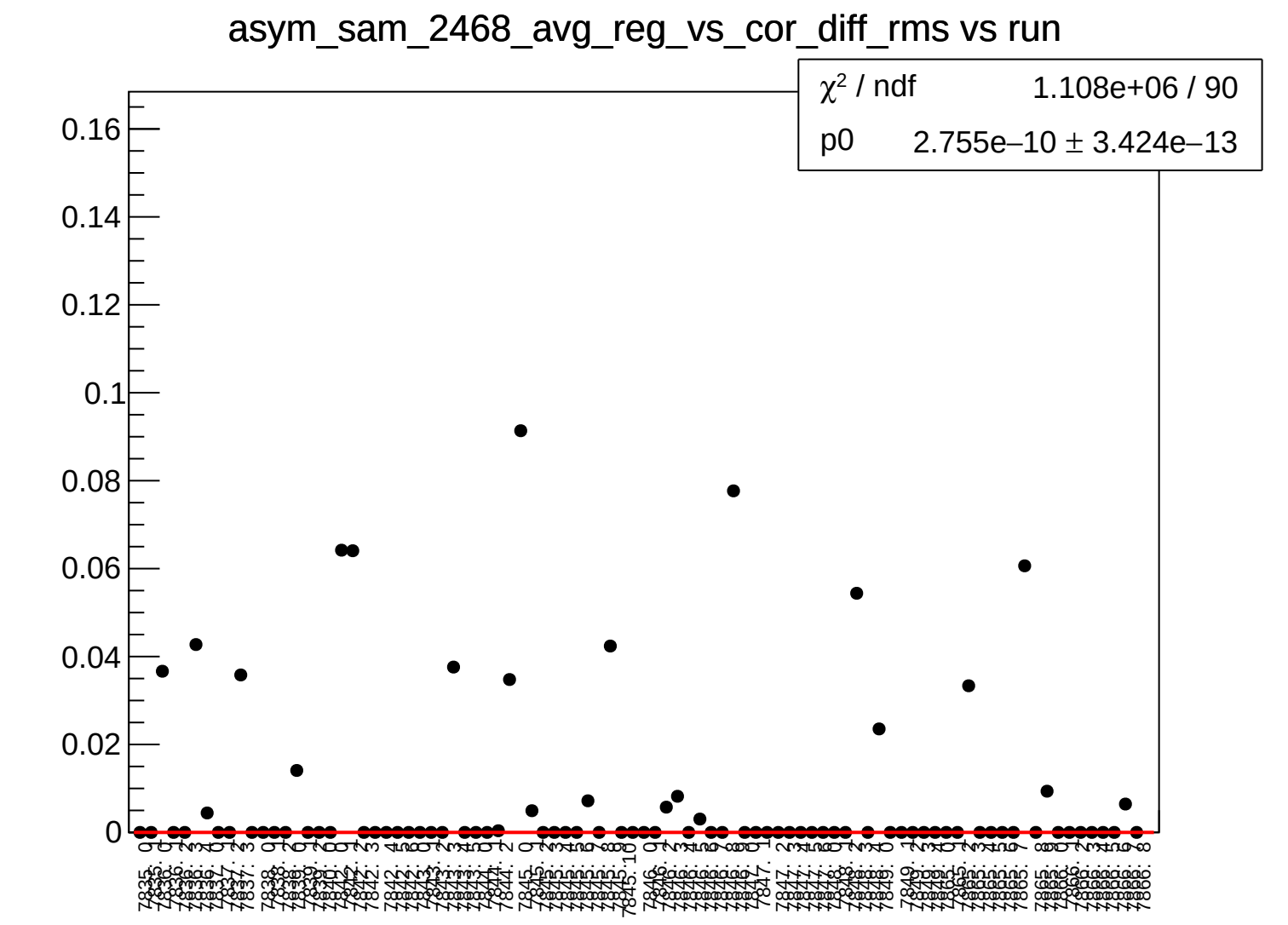

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 78.75 / 90
p0 689.9 ± 2685
100
50
0
−50
−100
pull
Entries 91
Mean 134.2
Std Dev 0
2
1
0
−1
−2

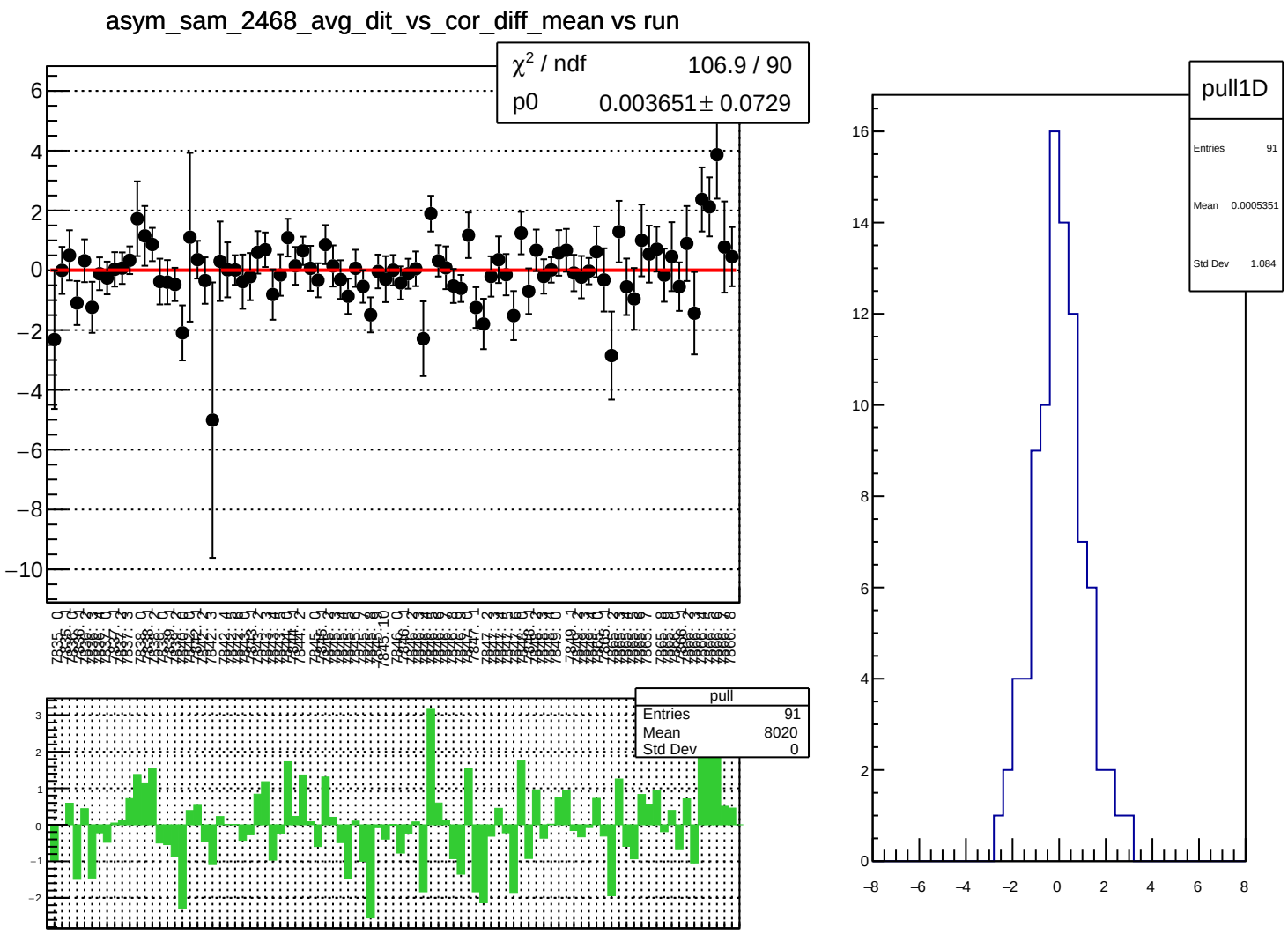

pull1D
Entries 91
Mean 0.01408
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

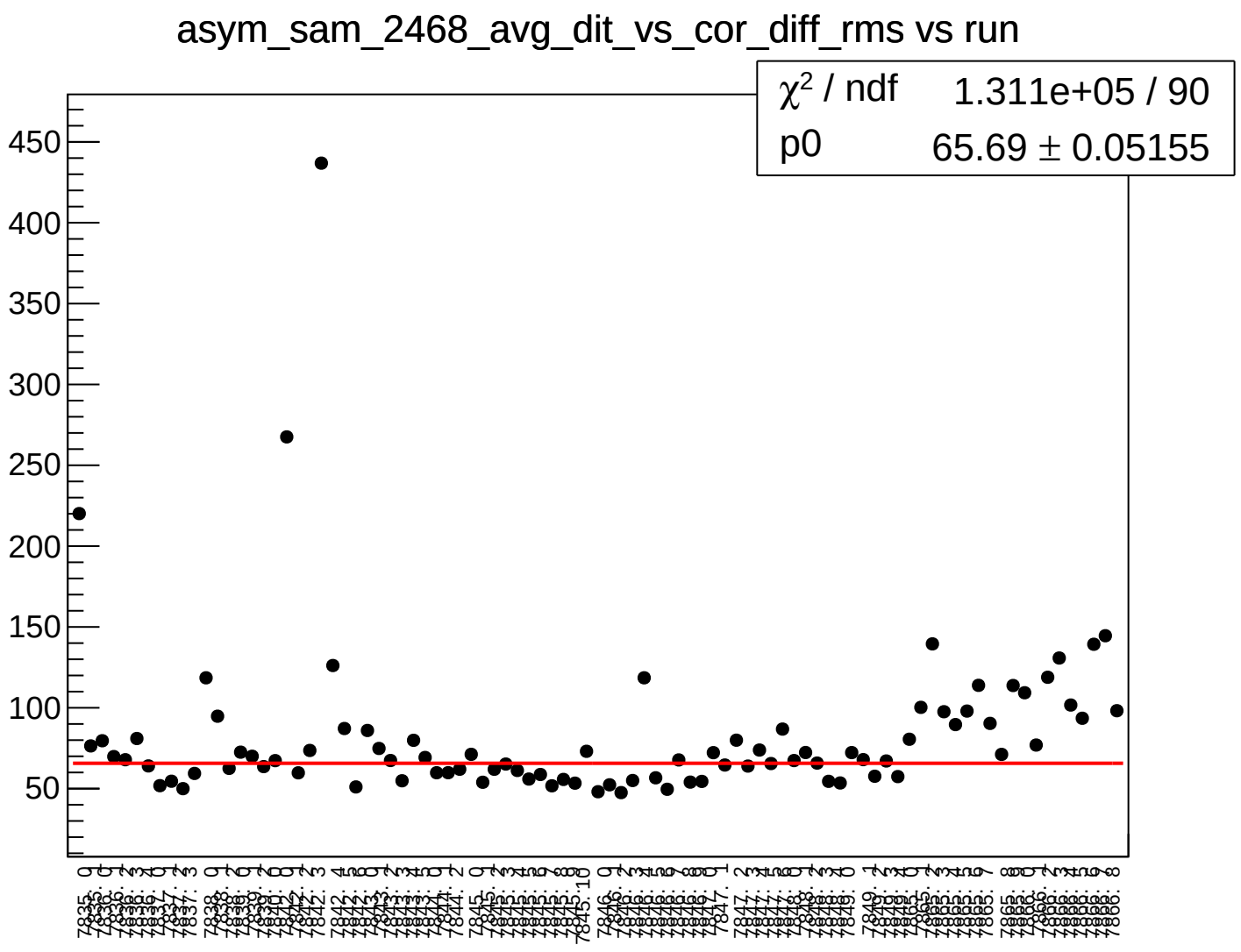

asym_sam_2468_avg_rms vs run
χ² / ndf 1.56e+04 / 90
p0 2504 ± 1.899
3400
3200
3000
2800
2600
2400
2200
2000

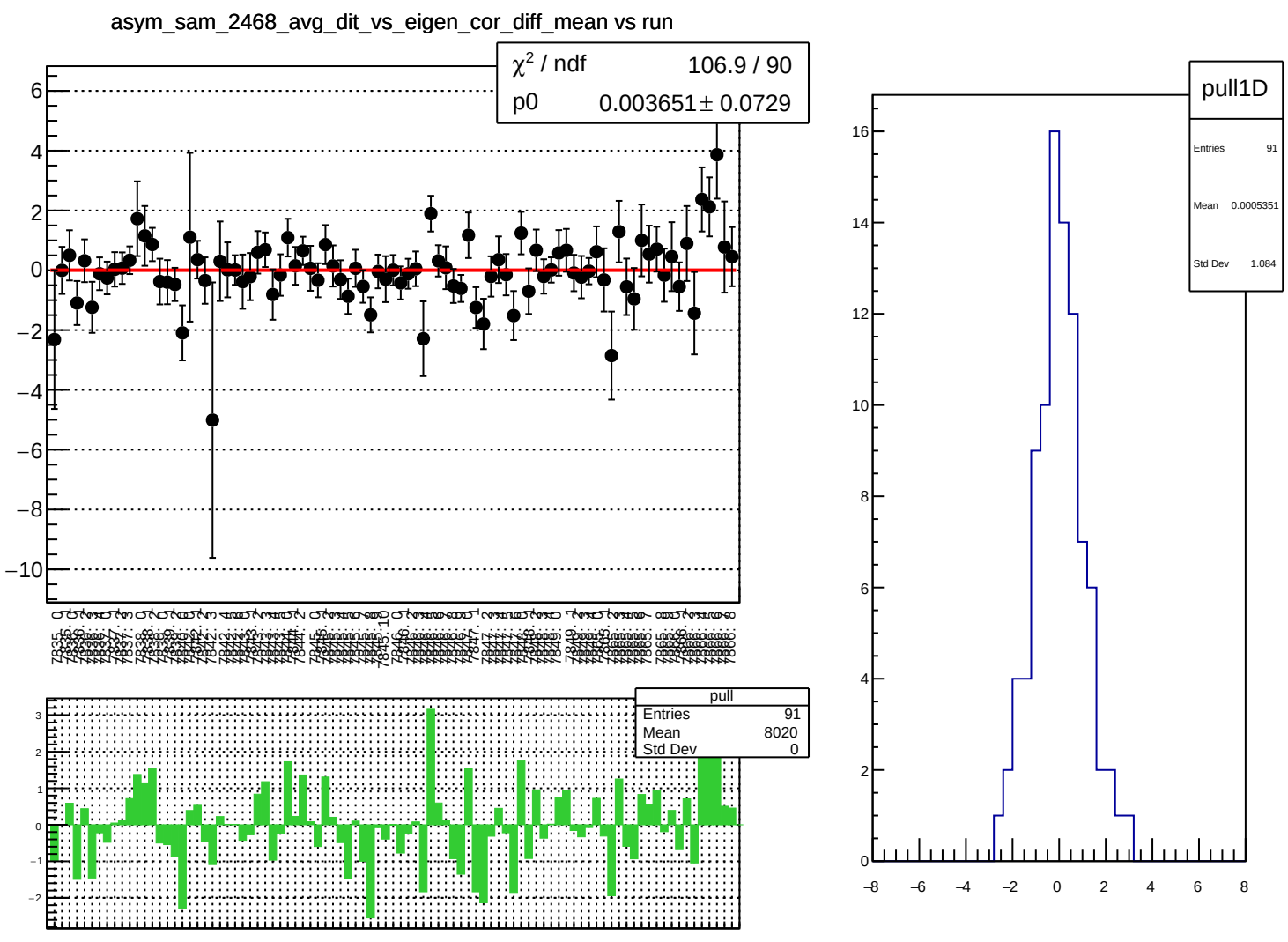

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.85 / 90
p0 7.429e−15 ± 4.842e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 44.88
Std Dev 14.6
3
2
1
0
−1
−2
−3

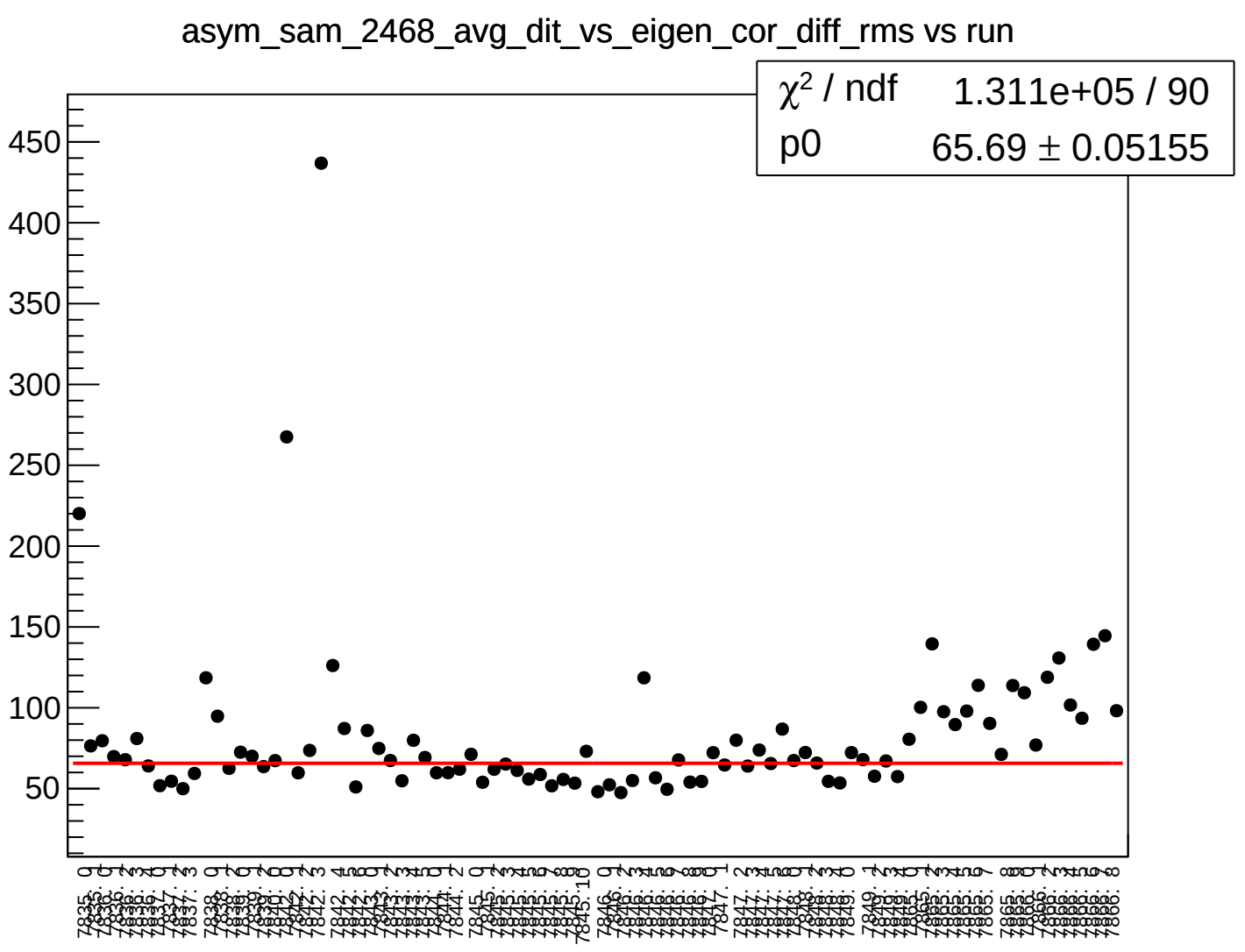

pull1D
Entries 91
Mean −0.1078
Std Dev 1.026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

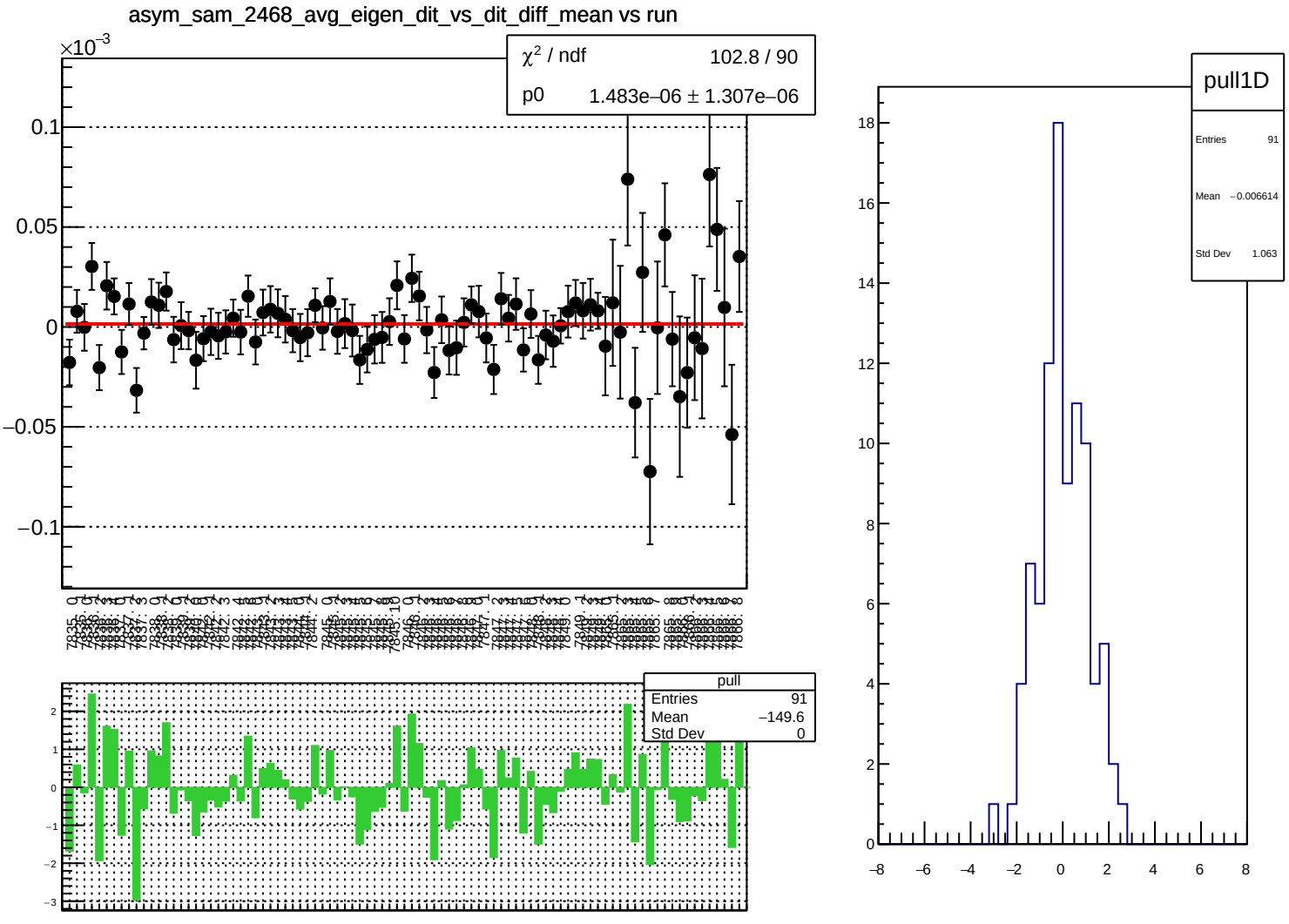

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.108e+06 / 90
p0 2.755e−10 ± 3.424e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

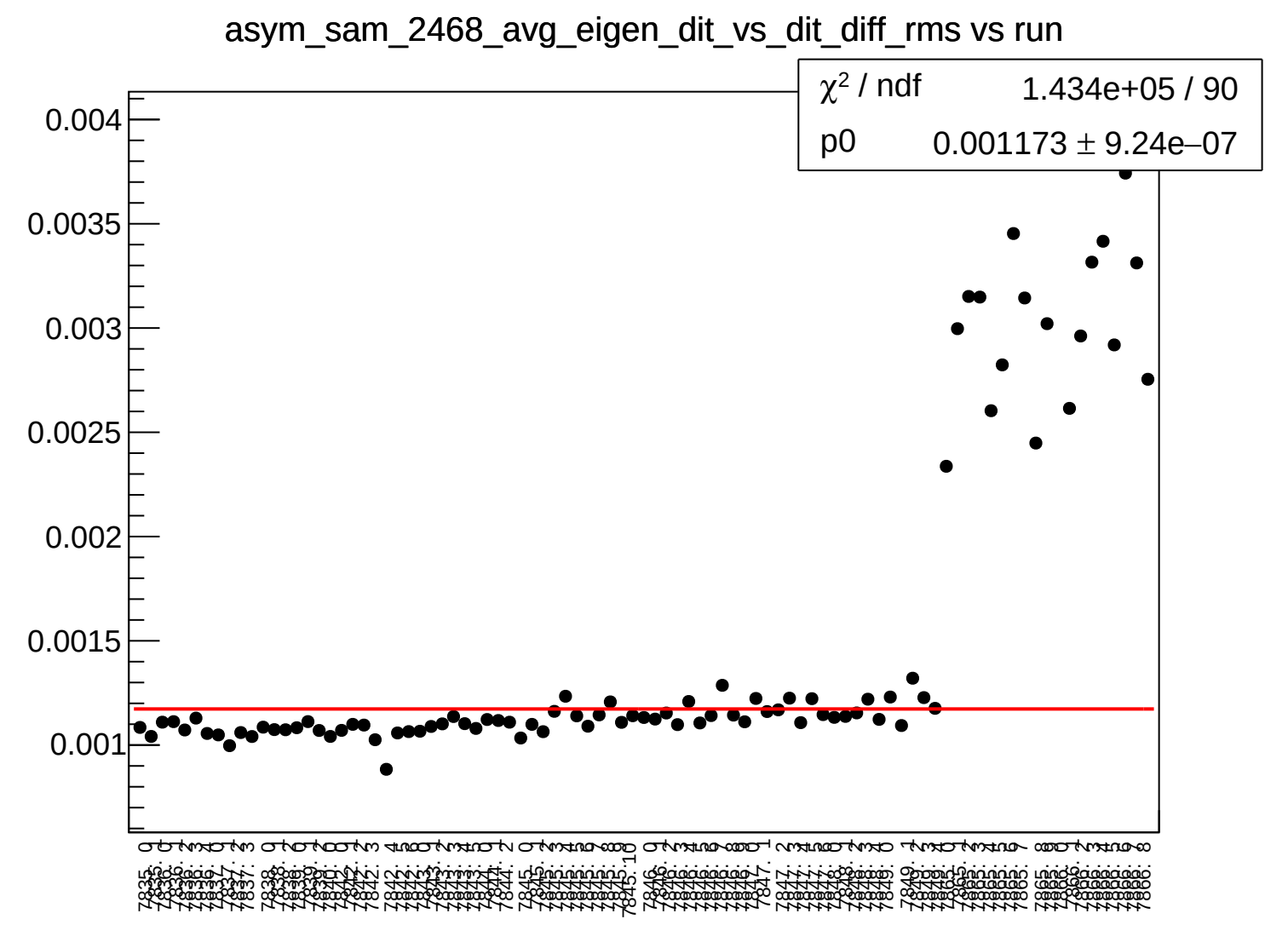

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 90
p0 0.003651 ± 0.0729
pull
Entries 91
Mean 8020
Std Dev 0
pull1D
Entries 91
Mean 0.0005351
Std Dev 1.084

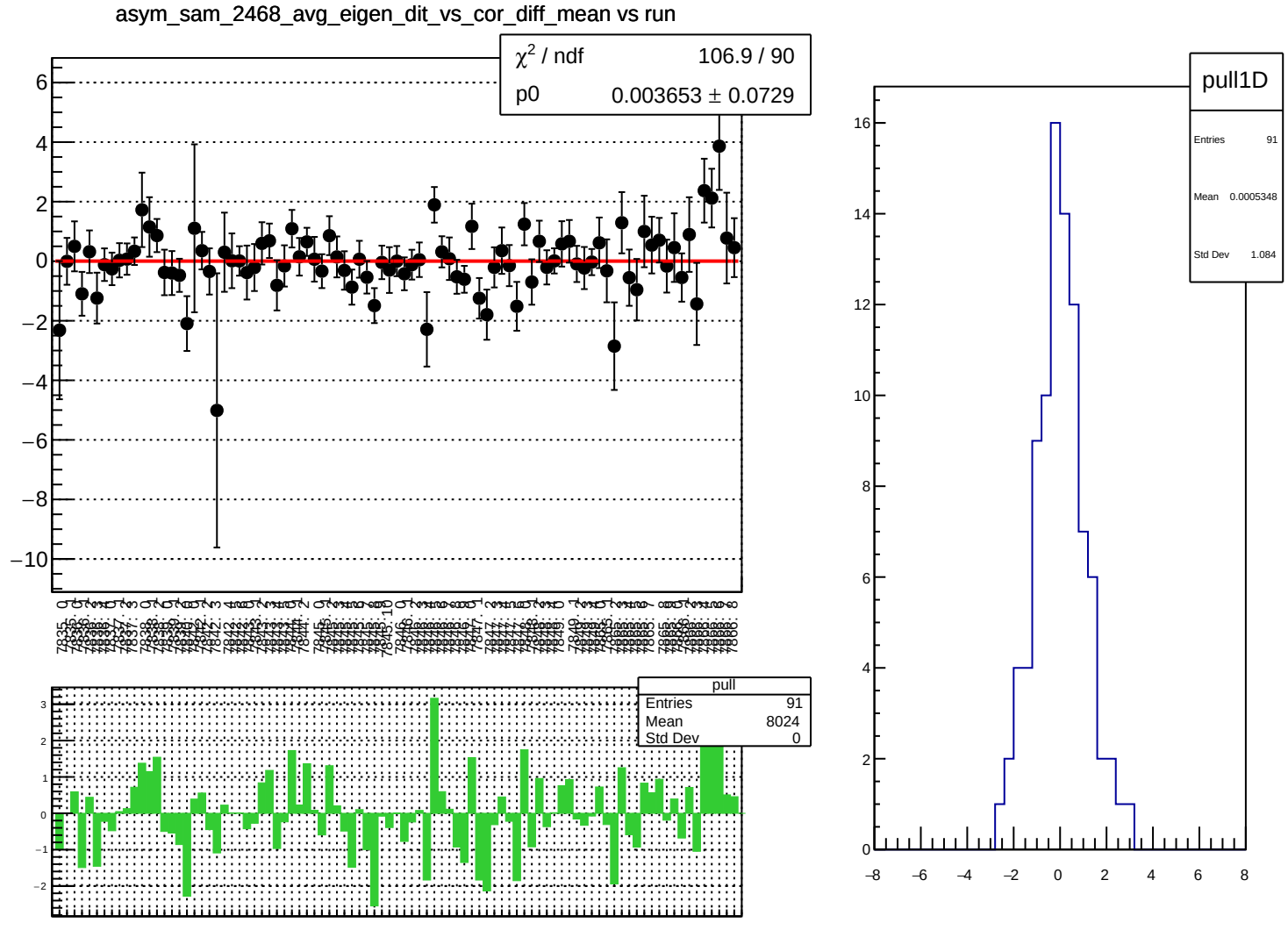

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.311e+05 / 90
p0 65.69 ± 0.05155
450
400
350
300
250
200
150
100
50

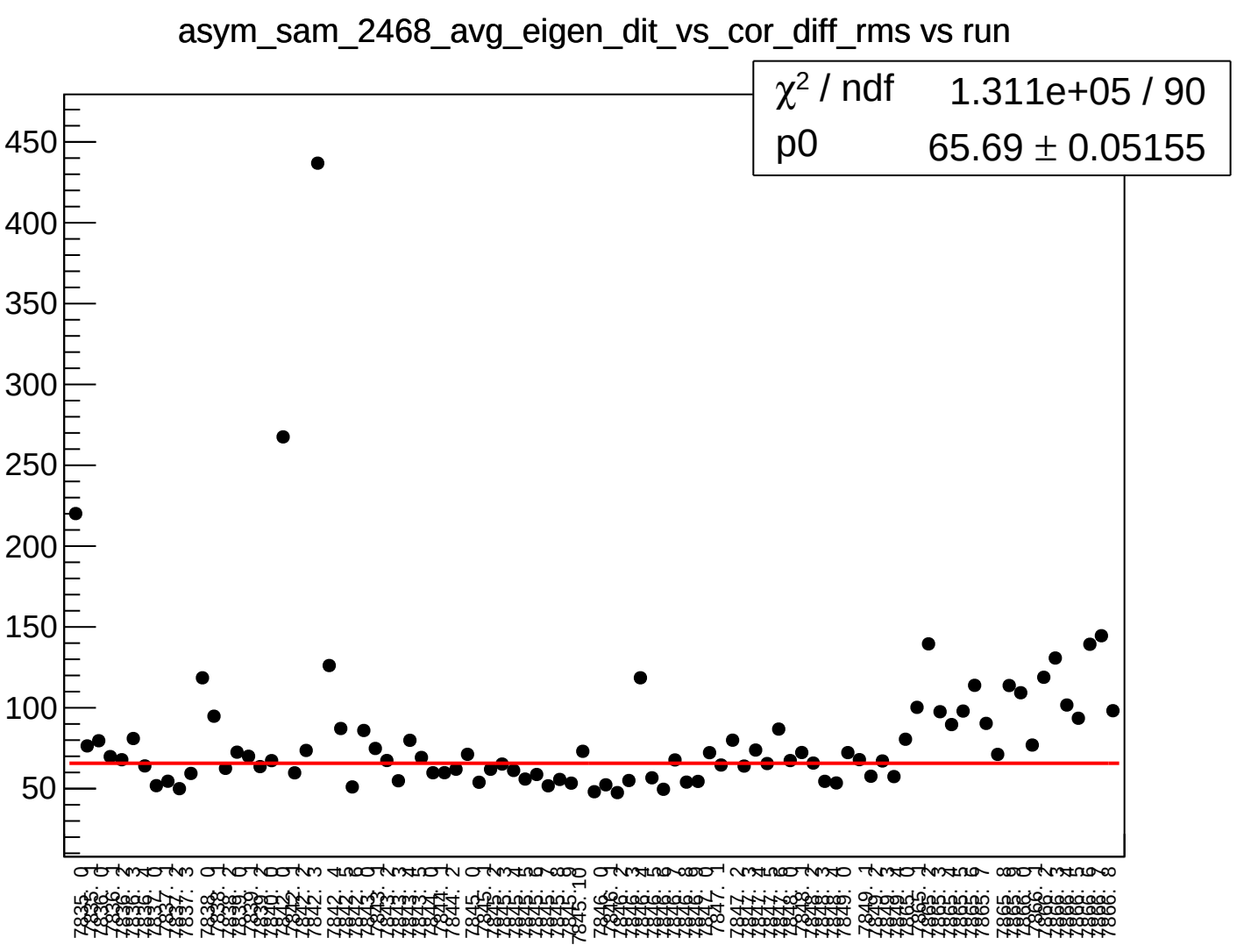

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.9 / 90
p0 0.003651 ± 0.0729
pull
Entries 91
Mean 8020
Std Dev 0
pull1D
Entries 91
Mean 0.0005351
Std Dev 1.084

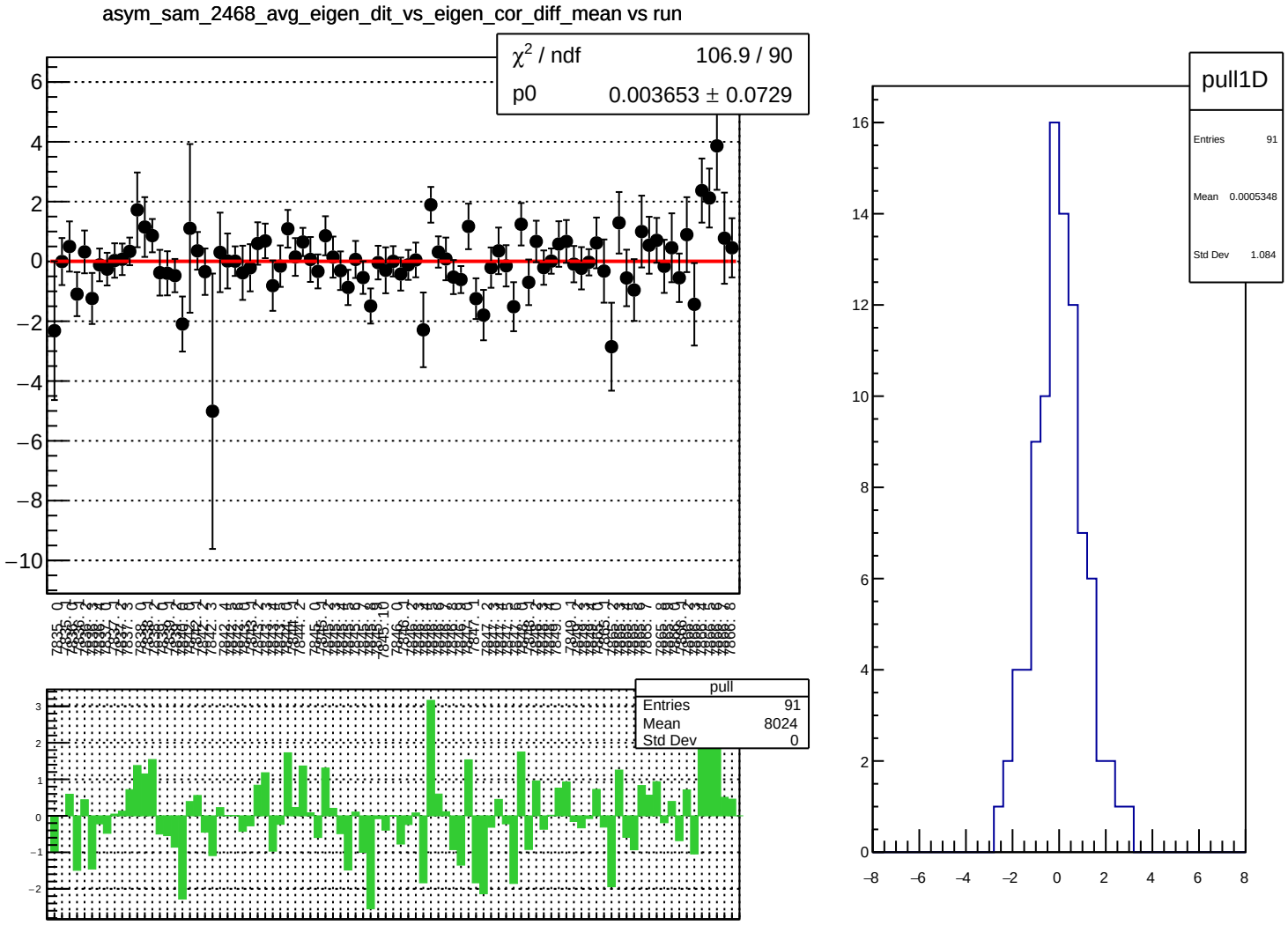

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.311e+05 / 90
p0 65.69 ± 0.05155
450
400
350
300
250
200
150
100
50

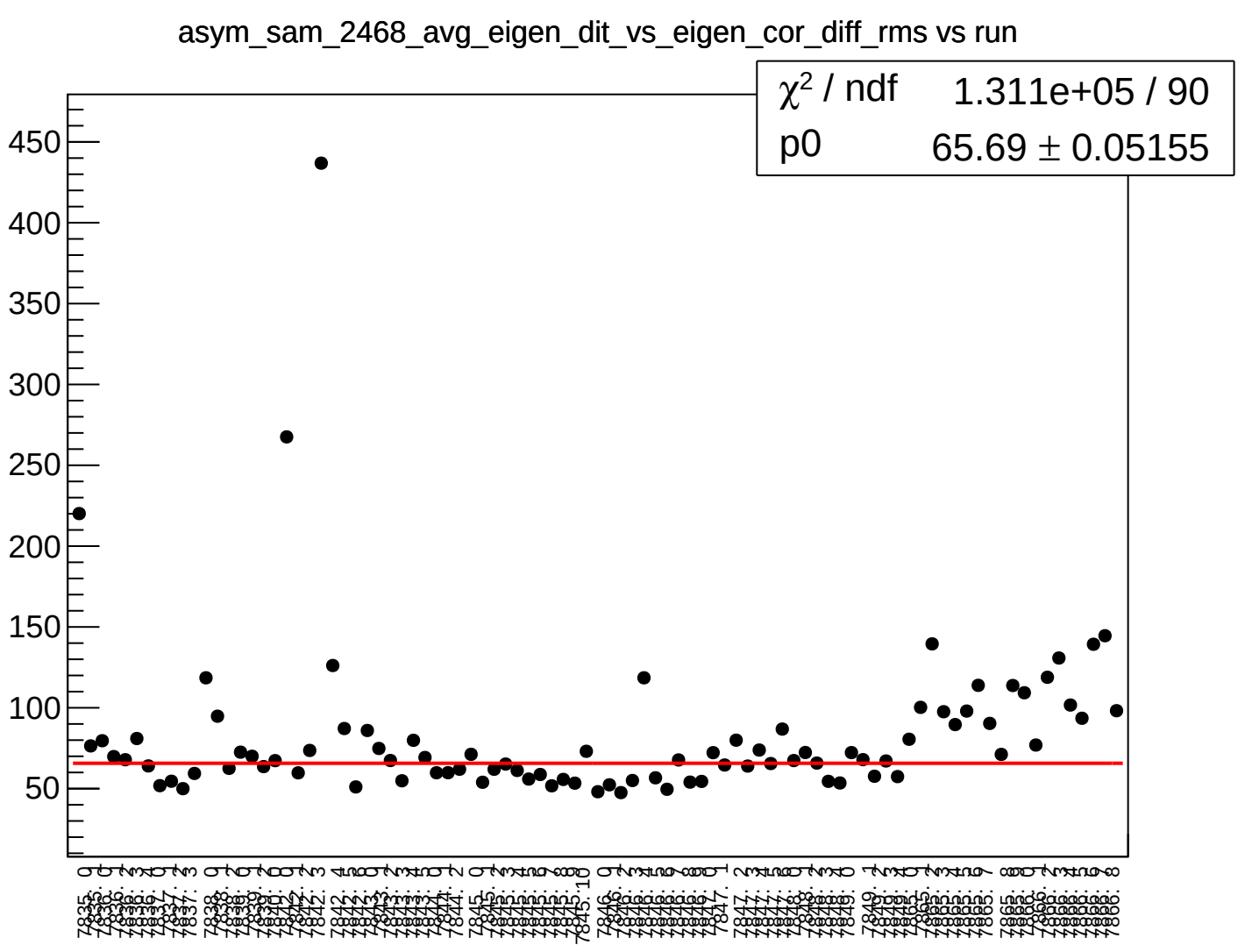

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.8 / 90
p0 1.483e−06 ± 1.307e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −149.6
Std Dev 0
pull1D
Entries 91
Mean −0.006614
Std Dev 1.063

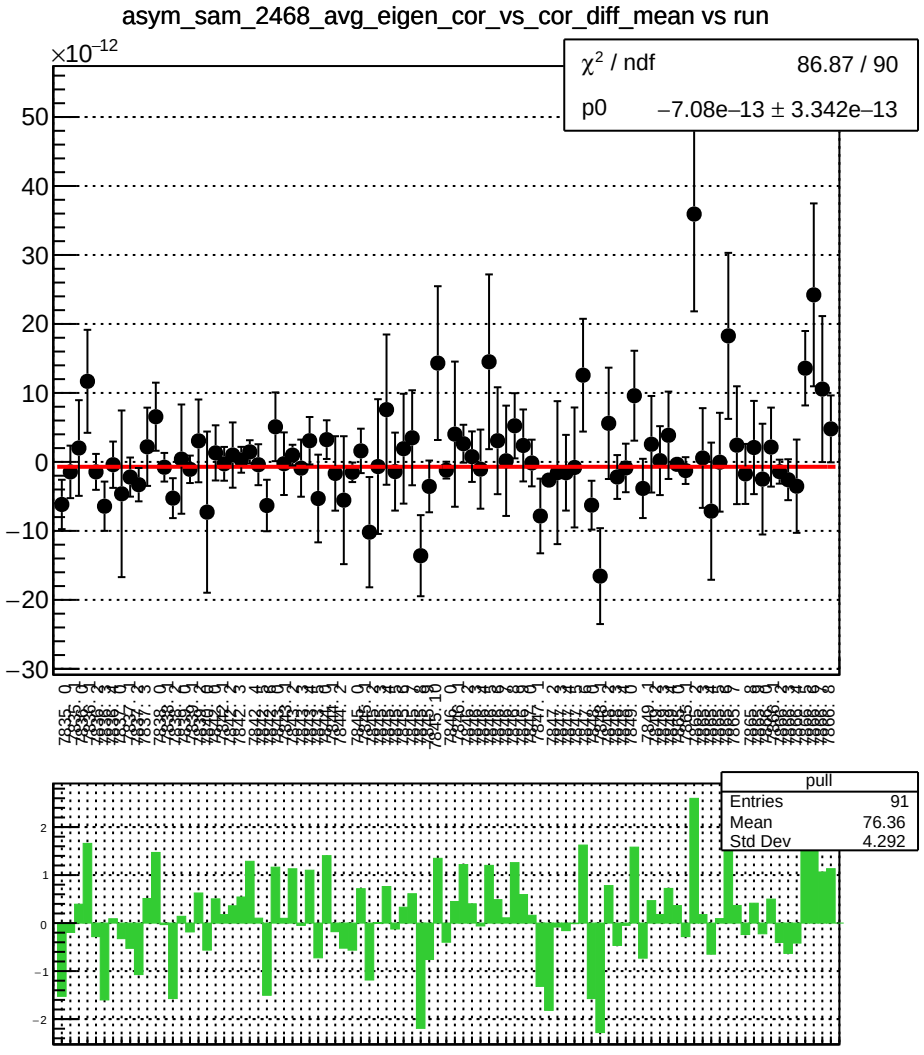

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.434e+05 / 90
p0 0.001173 ± 9.24e–07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

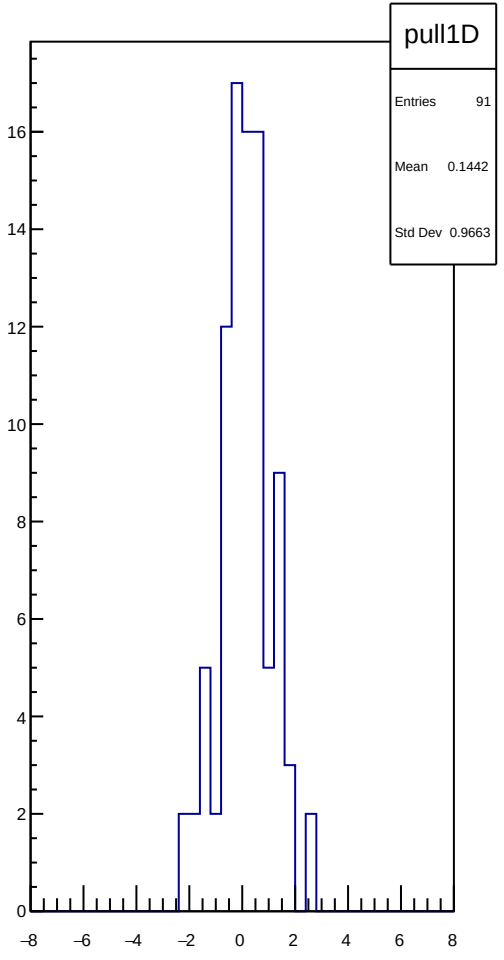

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 90
p0 0.003653 ± 0.0729
pull
Entries 91
Mean 8024
Std Dev 0
pull1D
Entries 91
Mean 0.0005348
Std Dev 1.084

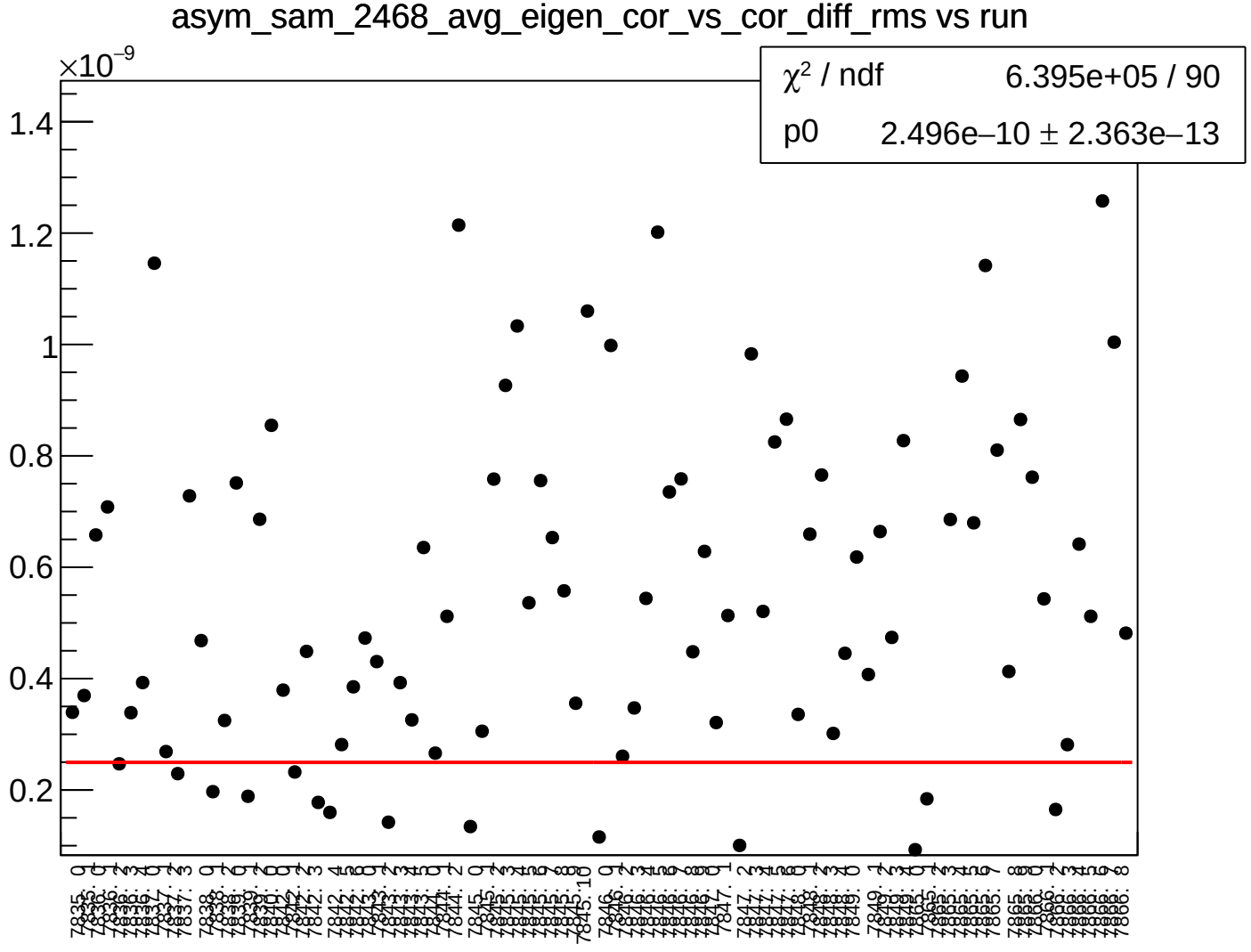

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.311e+05 / 90
p0 65.69 ± 0.05155
450
400
350
300
250
200
150
100
50

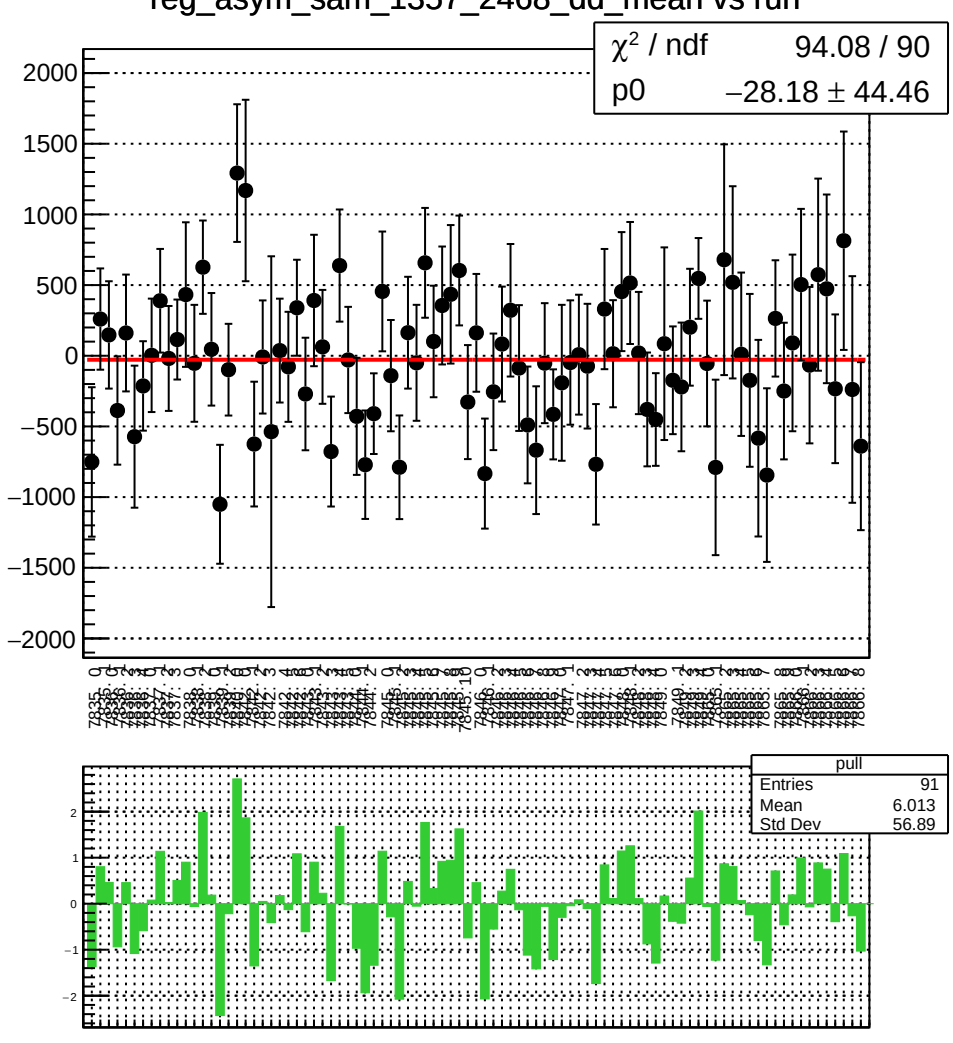

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.9 / 90
p0 0.003653 ± 0.0729
pull
Entries 91
Mean 8024
Std Dev 0
pull1D
Entries 91
Mean 0.0005348
Std Dev 1.084

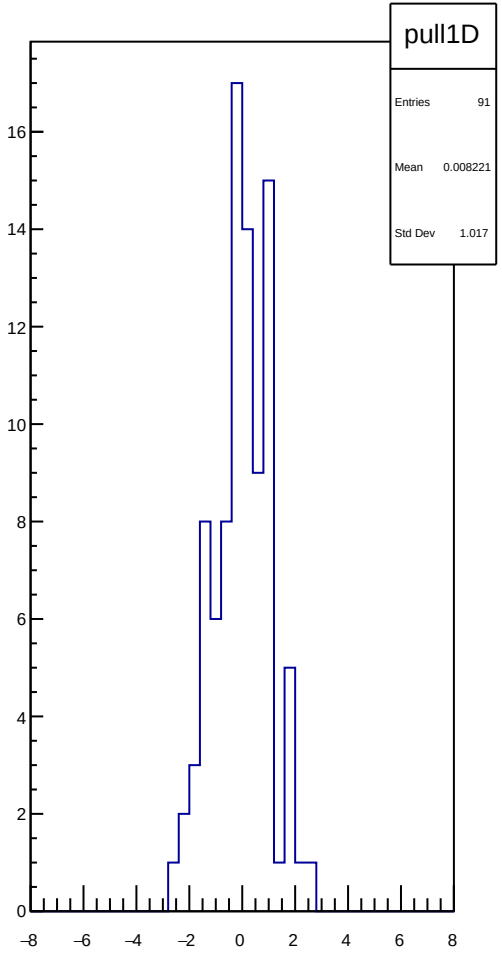

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.311e+05 / 90
p0 65.69 ± 0.05155
450
400
350
300
250
200
150
100
50

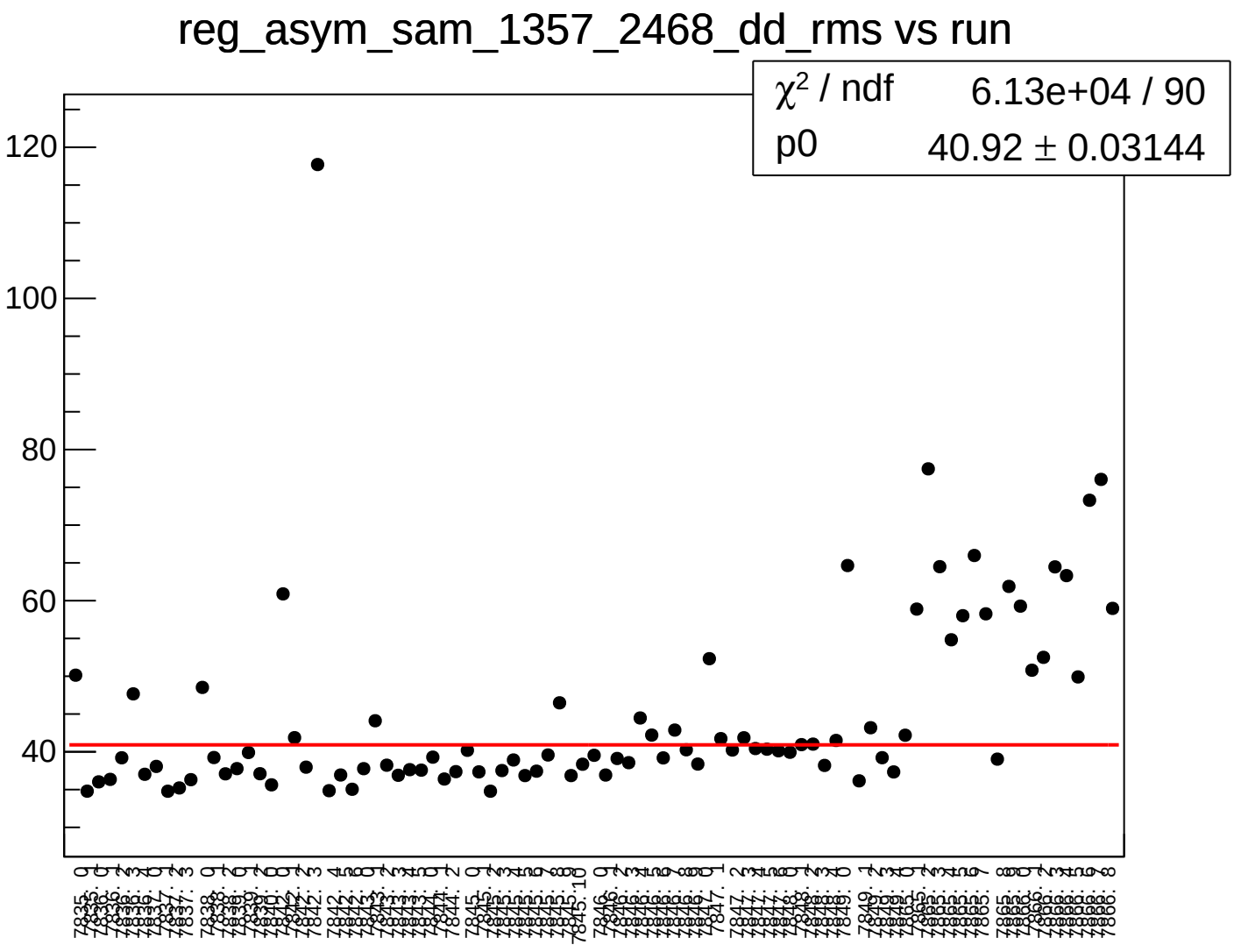

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.87 / 90
p0 −7.08e−13 ± 3.342e−13
pull
Entries 91
Mean 76.36
Std Dev 4.292

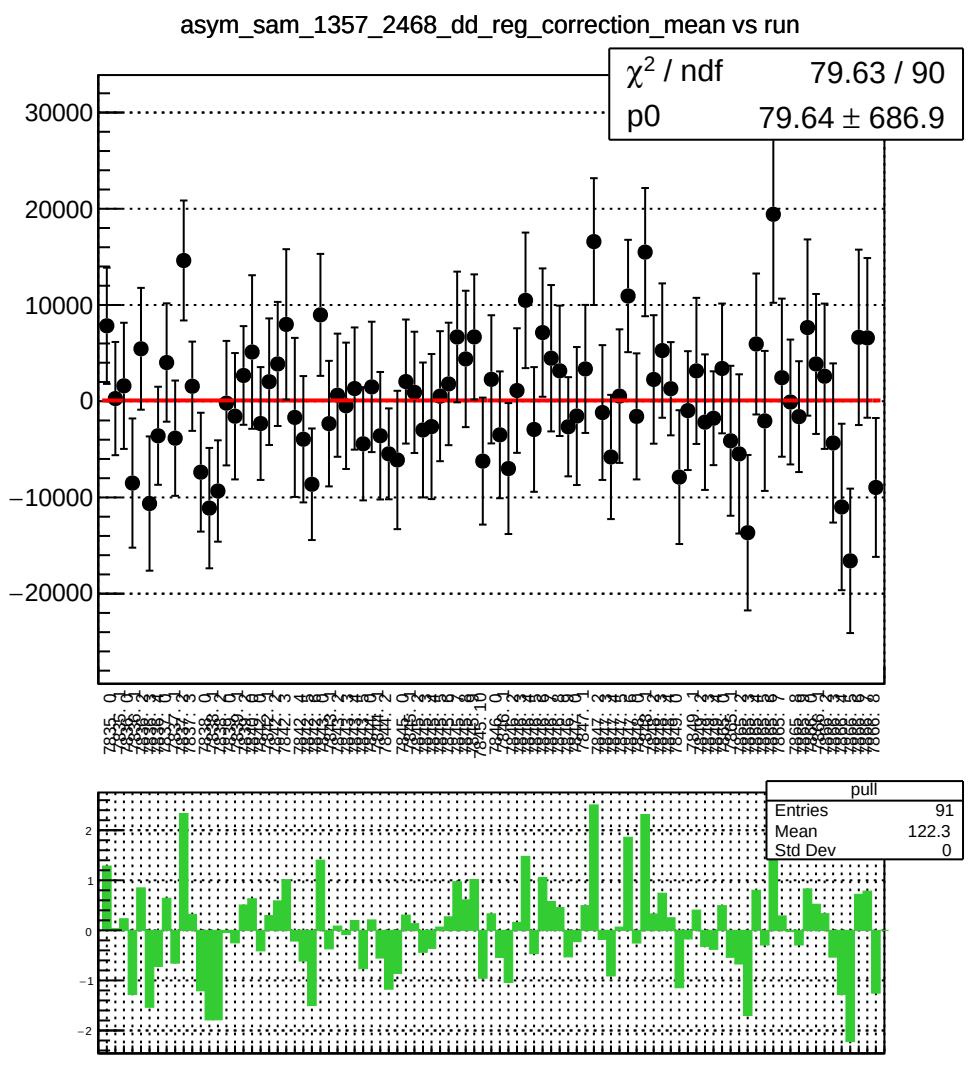

pull1D
Entries 91
Mean 0.1442
Std Dev 0.9663

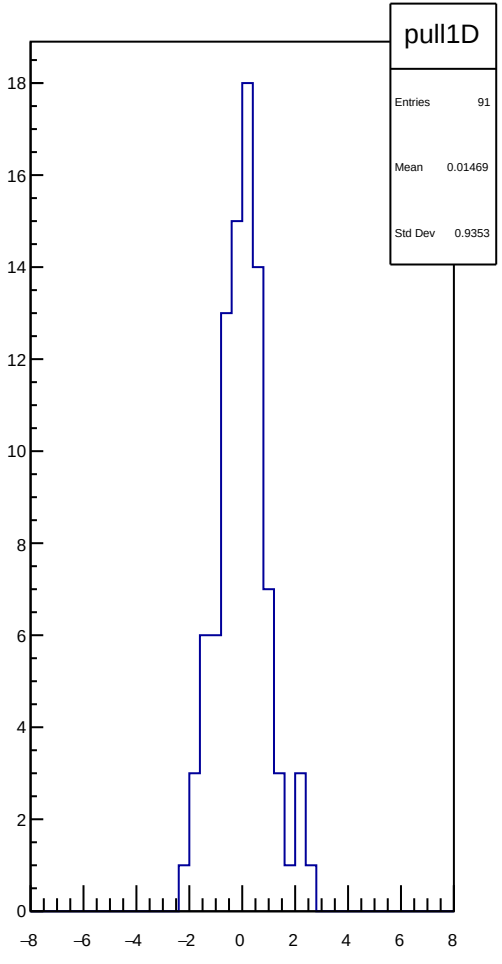

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.395e+05 / 90
p0 2.496e−10 ± 2.363e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

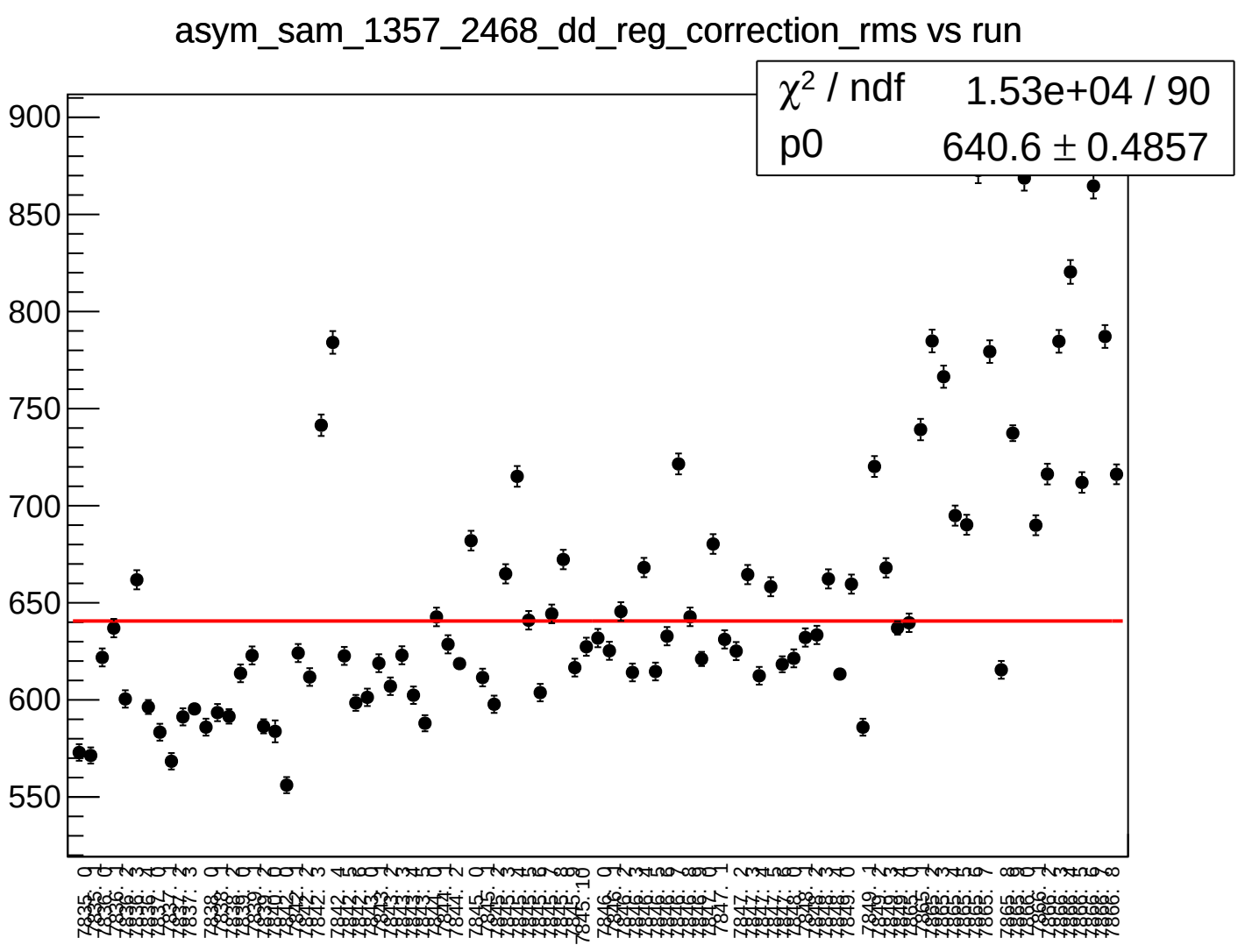

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.08 / 90
p0 −28.18 ± 44.46
pull
Entries 91
Mean 6.013
Std Dev 56.89

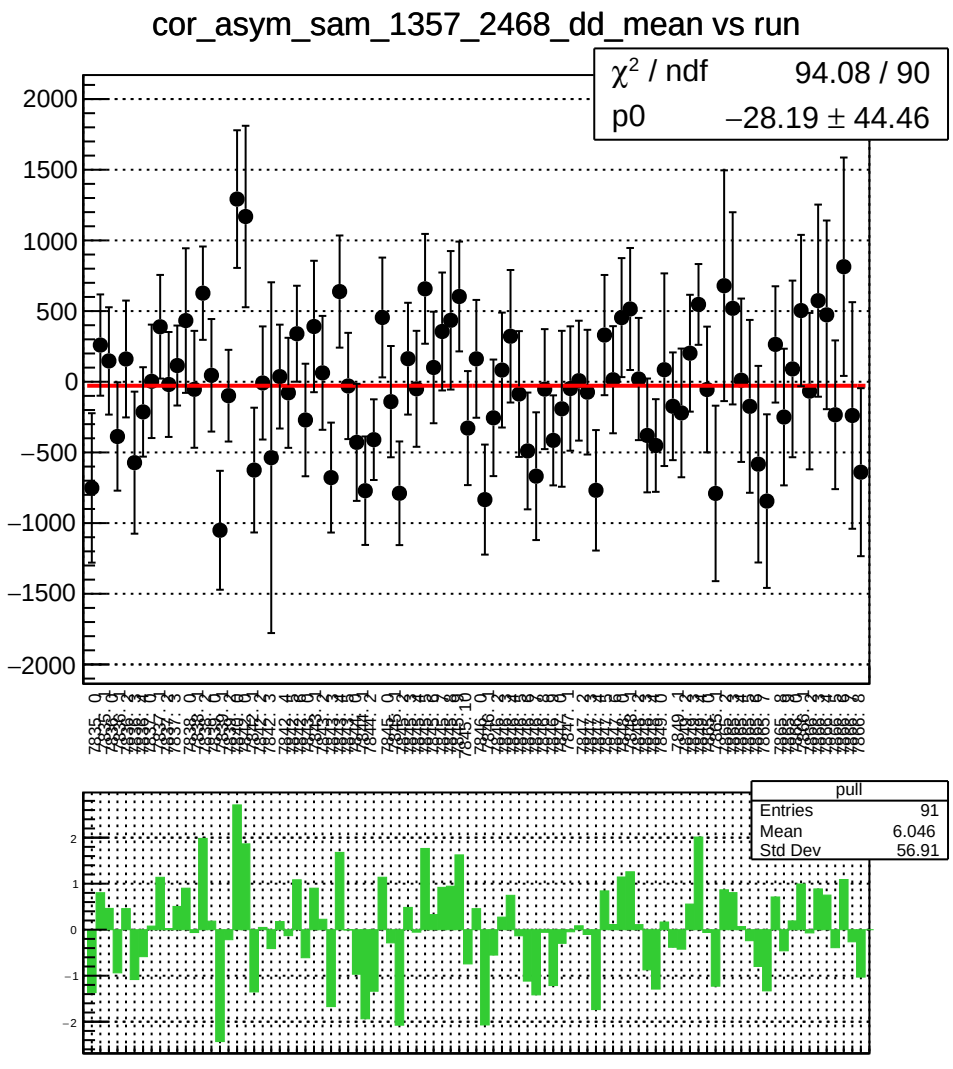

pull1D
Entries 91
Mean 0.008221
Std Dev 1.017

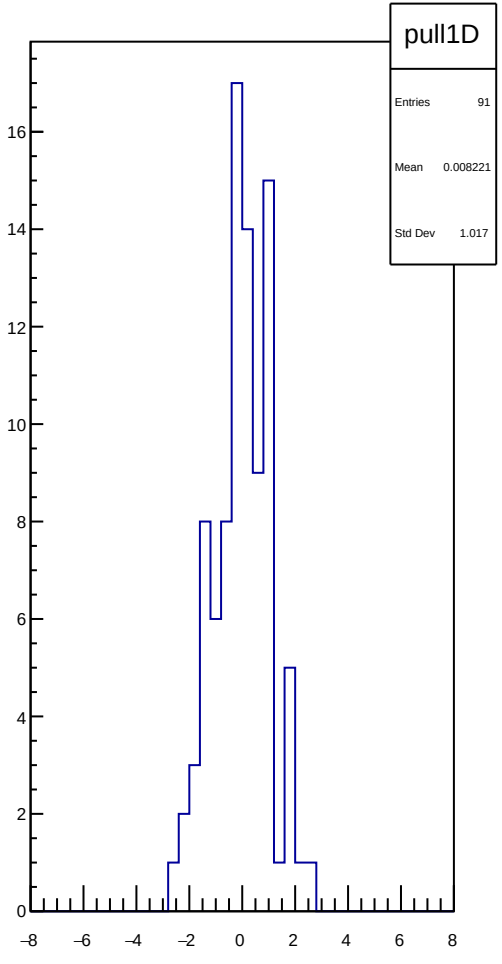

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.13e+04 / 90
p0 40.92 ± 0.03144
120
100
80
60
40

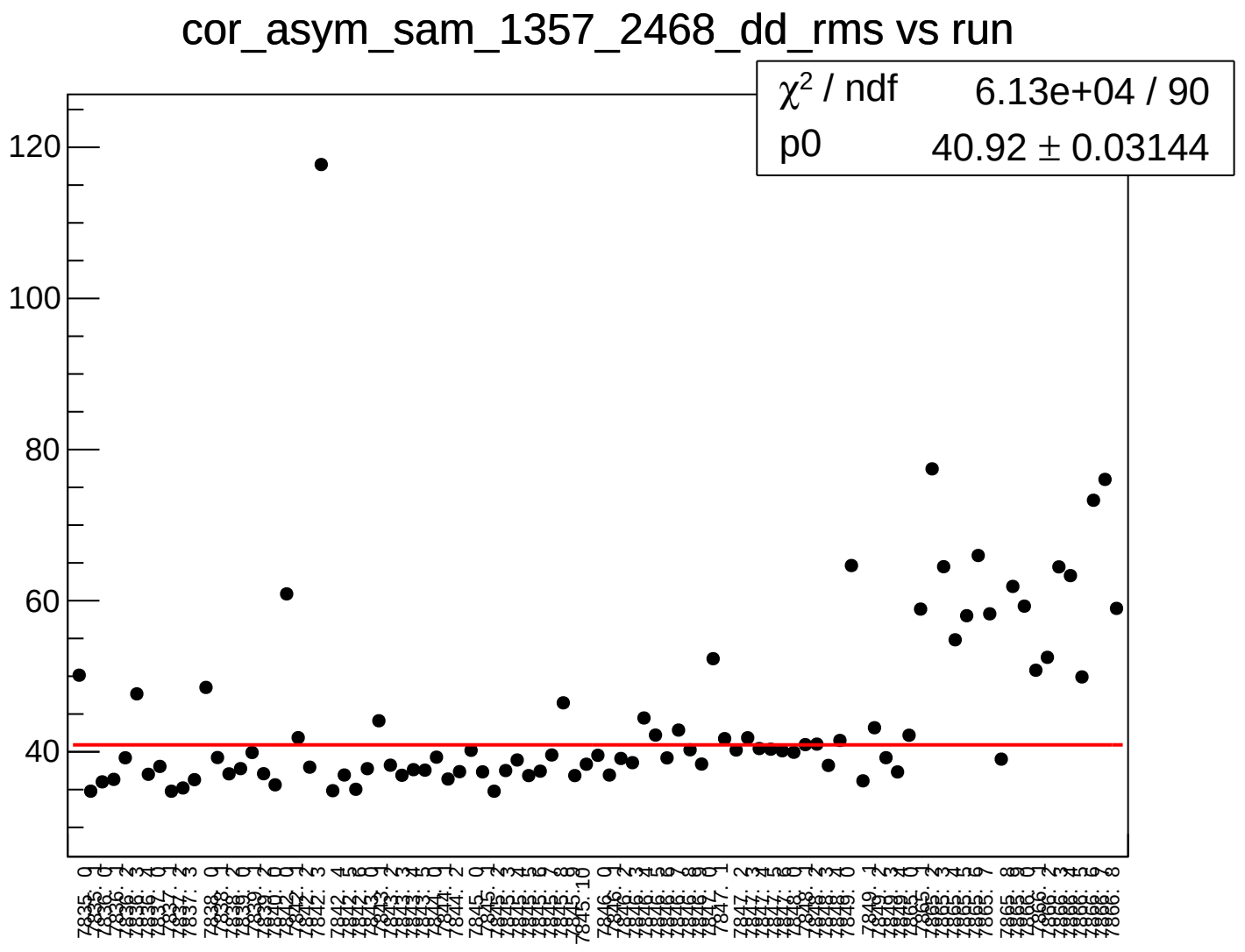

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 79.63 / 90
p0 79.64 ± 686.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 122.3
Std Dev 0
2
1
0
−1
−2

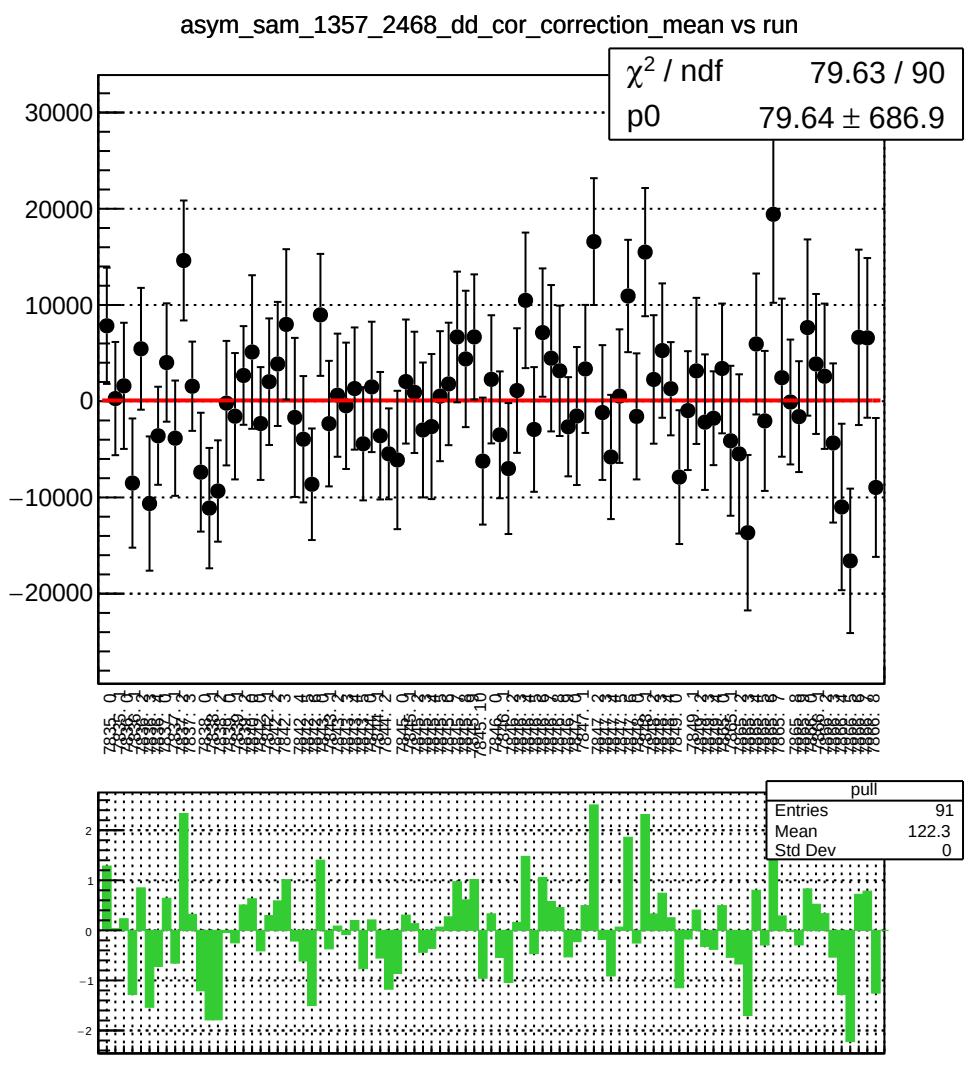

pull1D
Entries 91
Mean 0.01469
Std Dev 0.9353
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

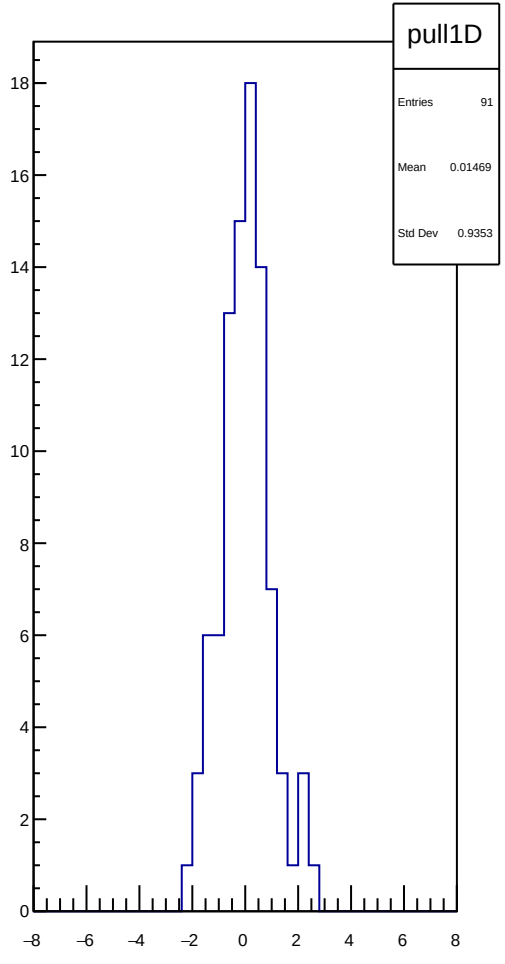

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.53e+04 / 90
p0 640.6 ± 0.4857
900
850
800
750
700
650
600
550

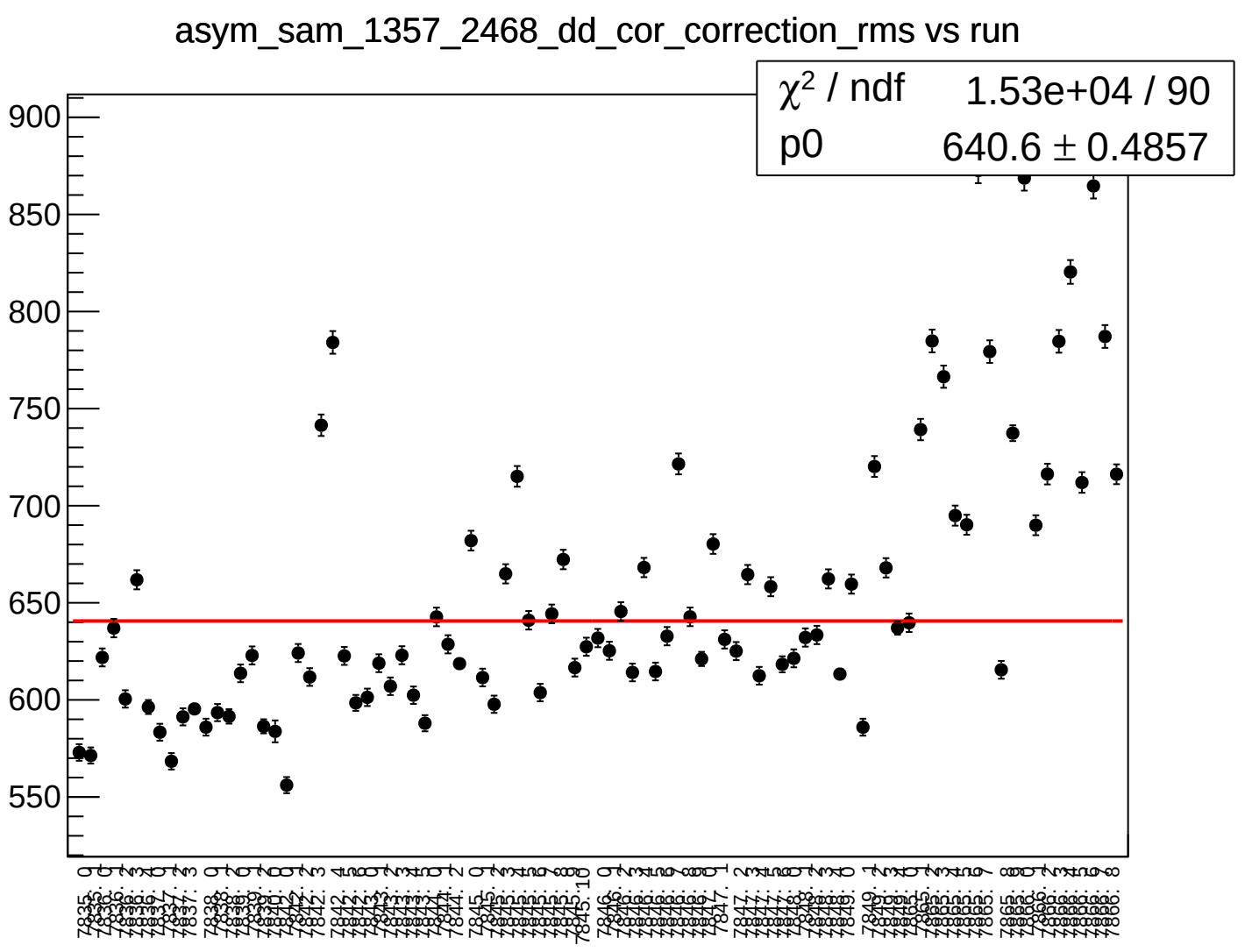

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.08 / 90
p0 −28.19 ± 44.46
pull
Entries 91
Mean 6.046
Std Dev 56.91

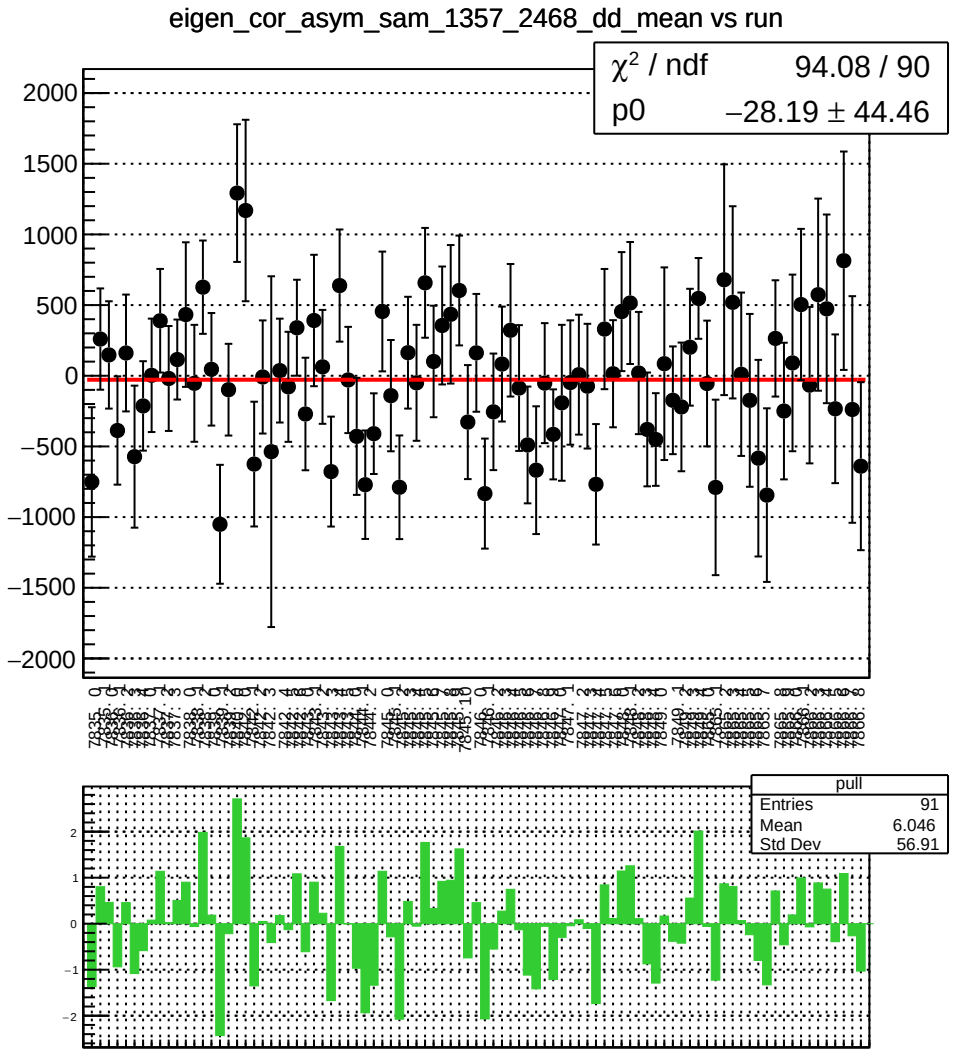

pull1D
Entries 91
Mean 0.008221
Std Dev 1.017

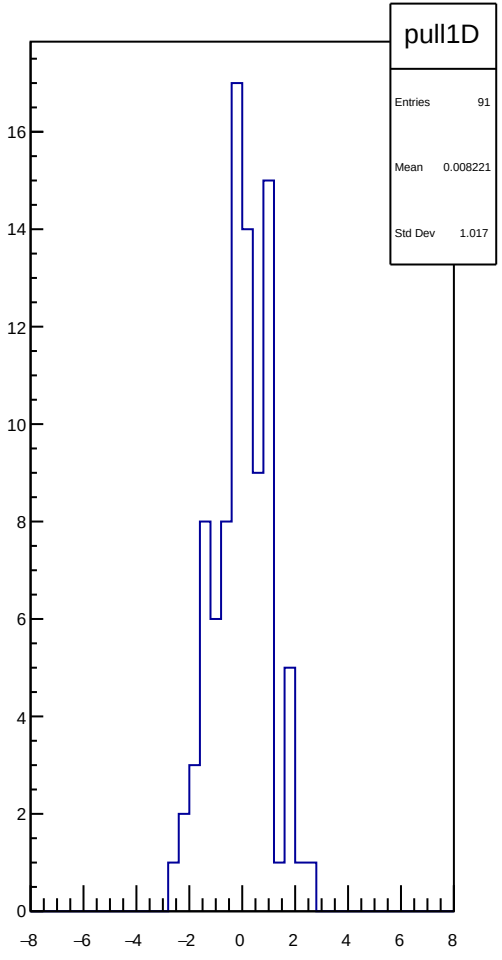

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.13e+04 / 90
p0 40.92 ± 0.03144
120
100
80
60
40

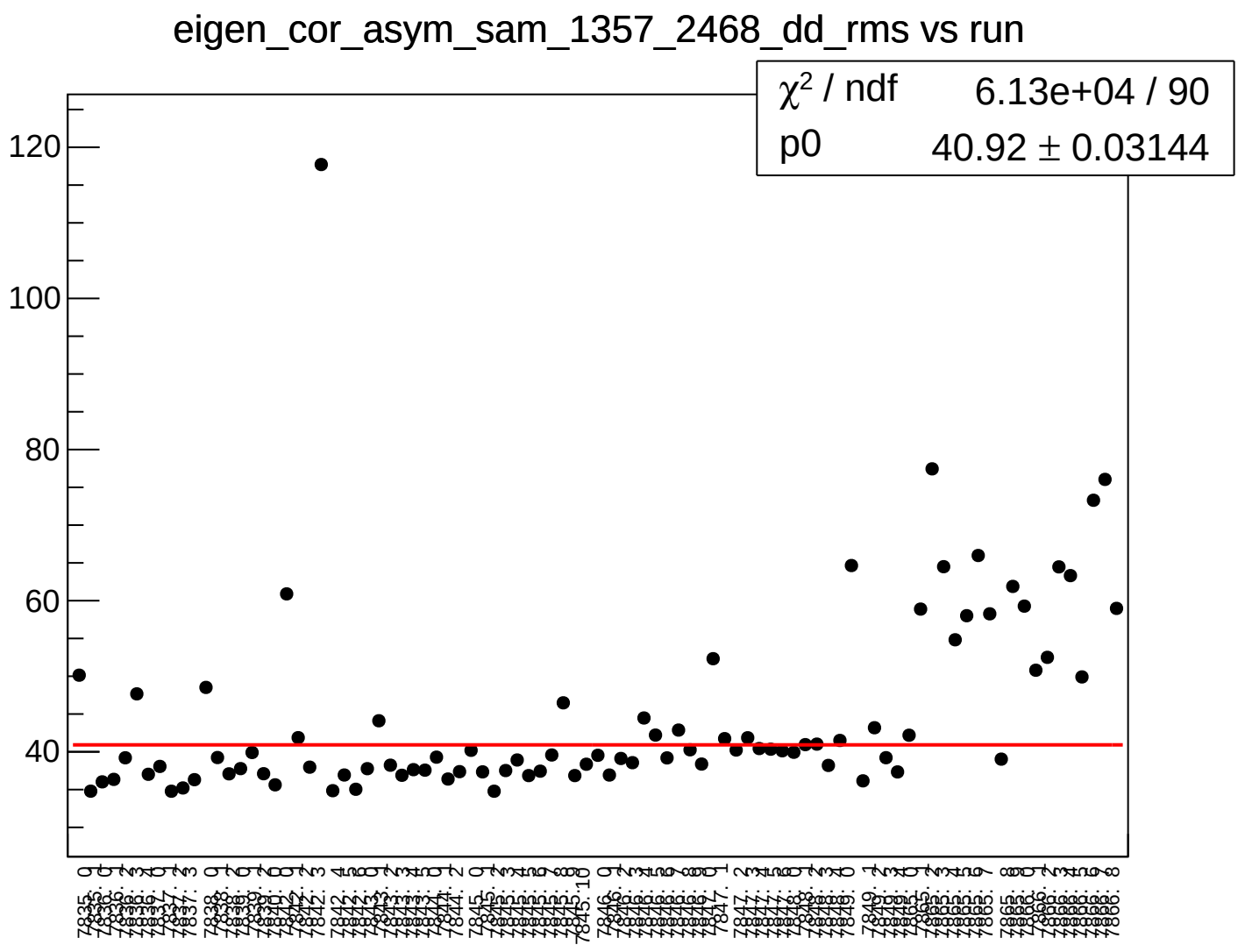

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 79.63 / 90
p0 79.64 ± 686.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 122.3
Std Dev 0
2
1
0
−1
−2

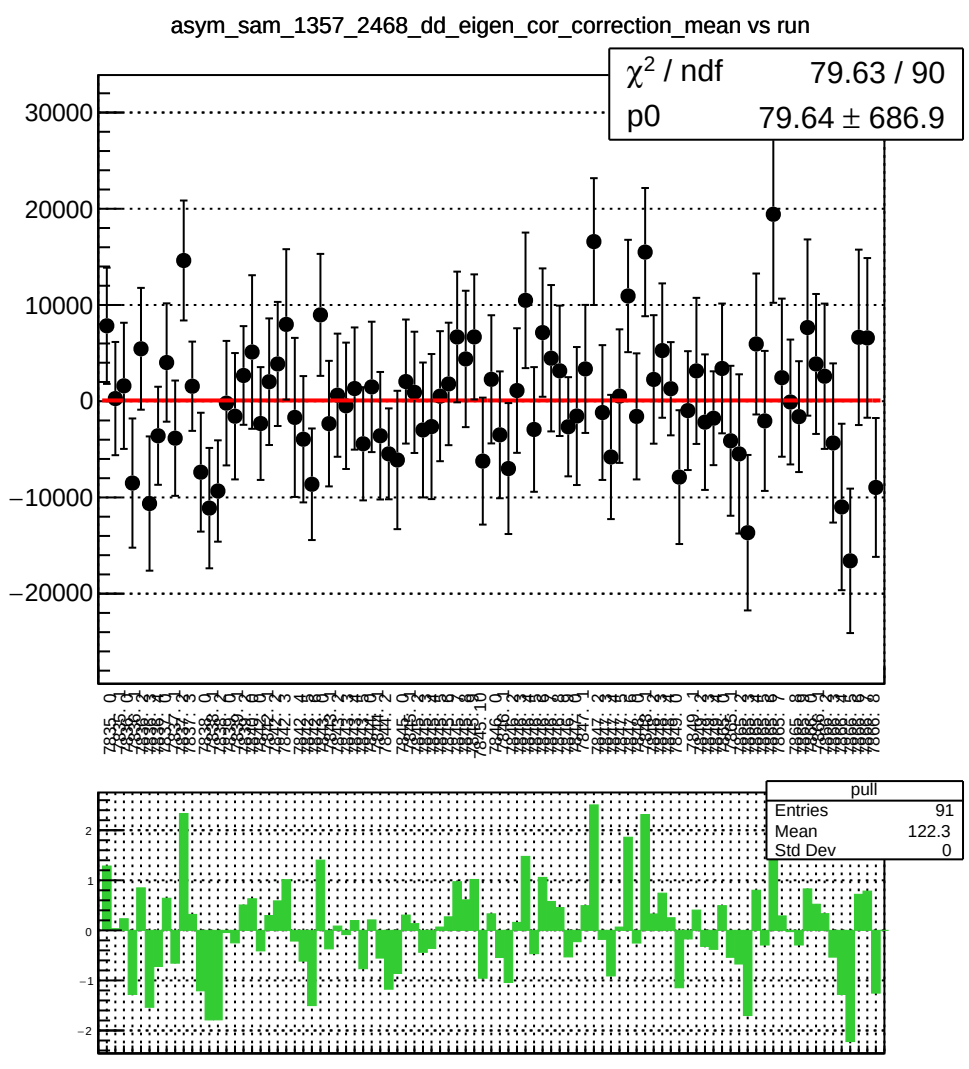

pull1D
Entries 91
Mean 0.01469
Std Dev 0.9353
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

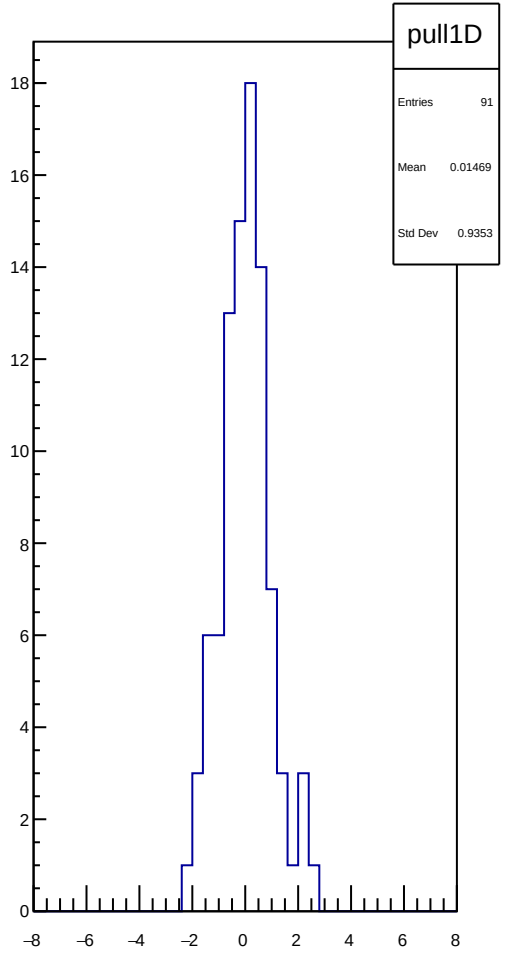

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.53e+04 / 90
p0 640.6 ± 0.4857
900
850
800
750
700
650
600
550

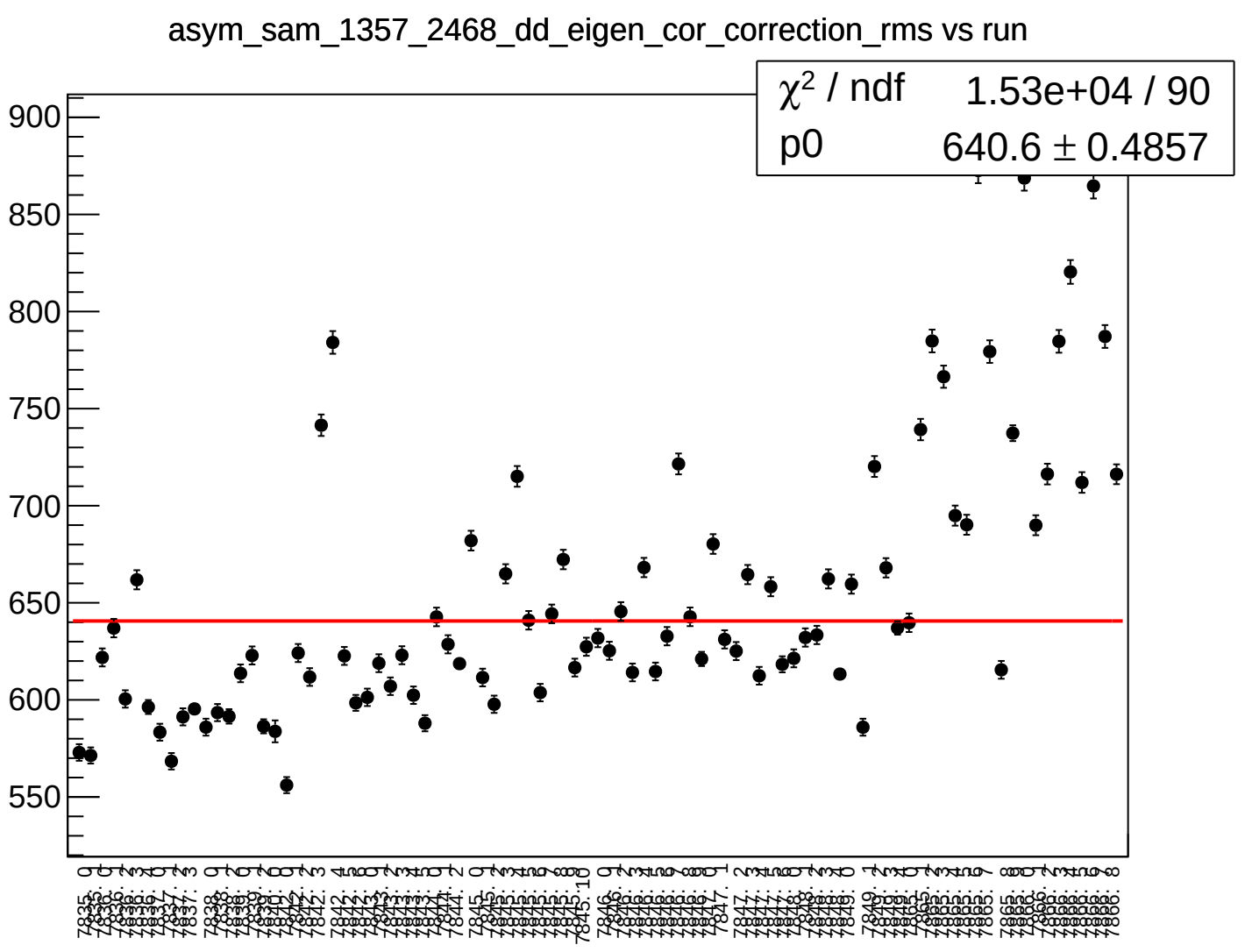

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.08 / 90
p0 −28.19 ± 44.46
pull
Entries 91
Mean 6.046
Std Dev 56.91

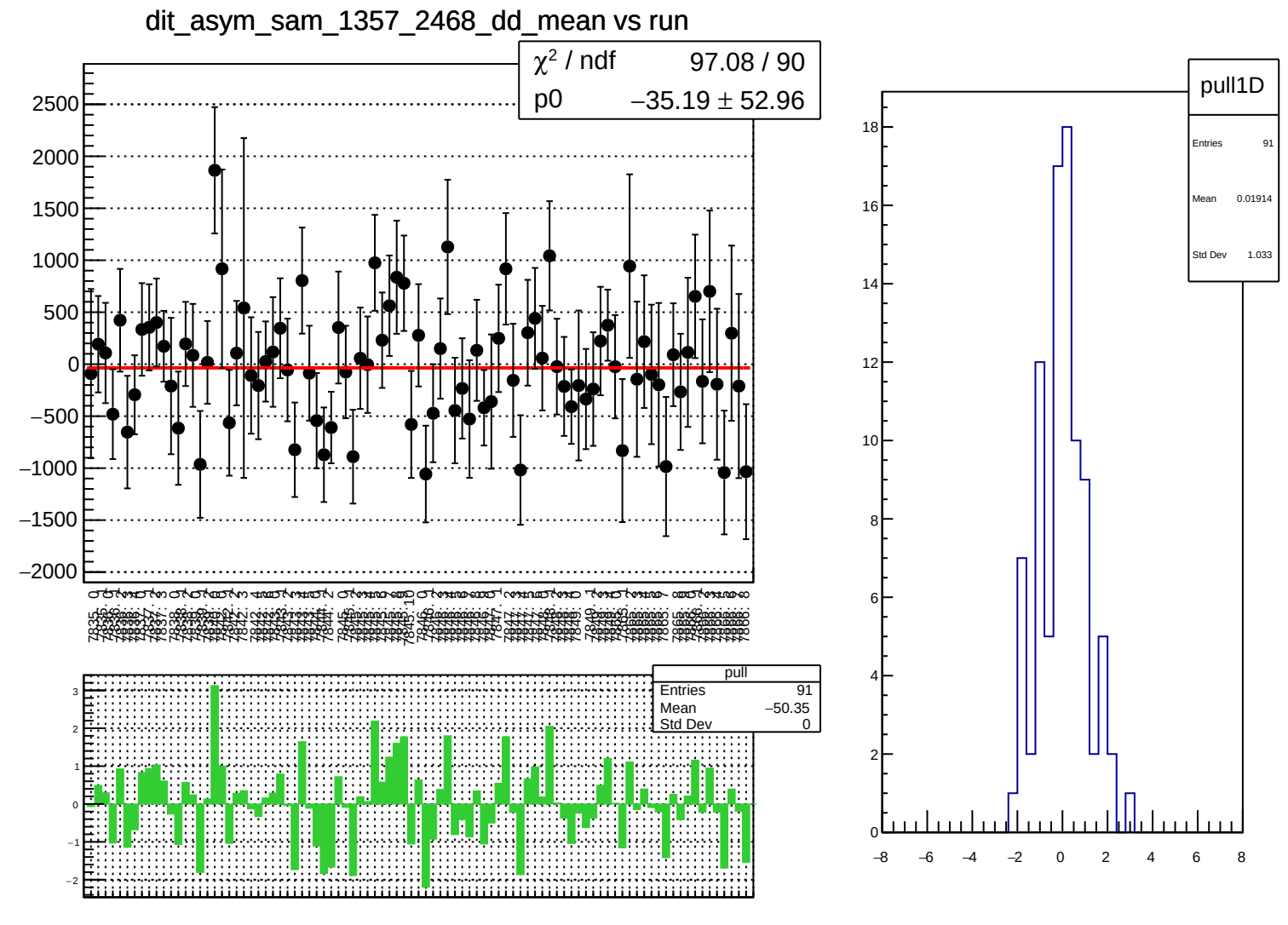

pull1D
Entries 91
Mean 0.008221
Std Dev 1.017

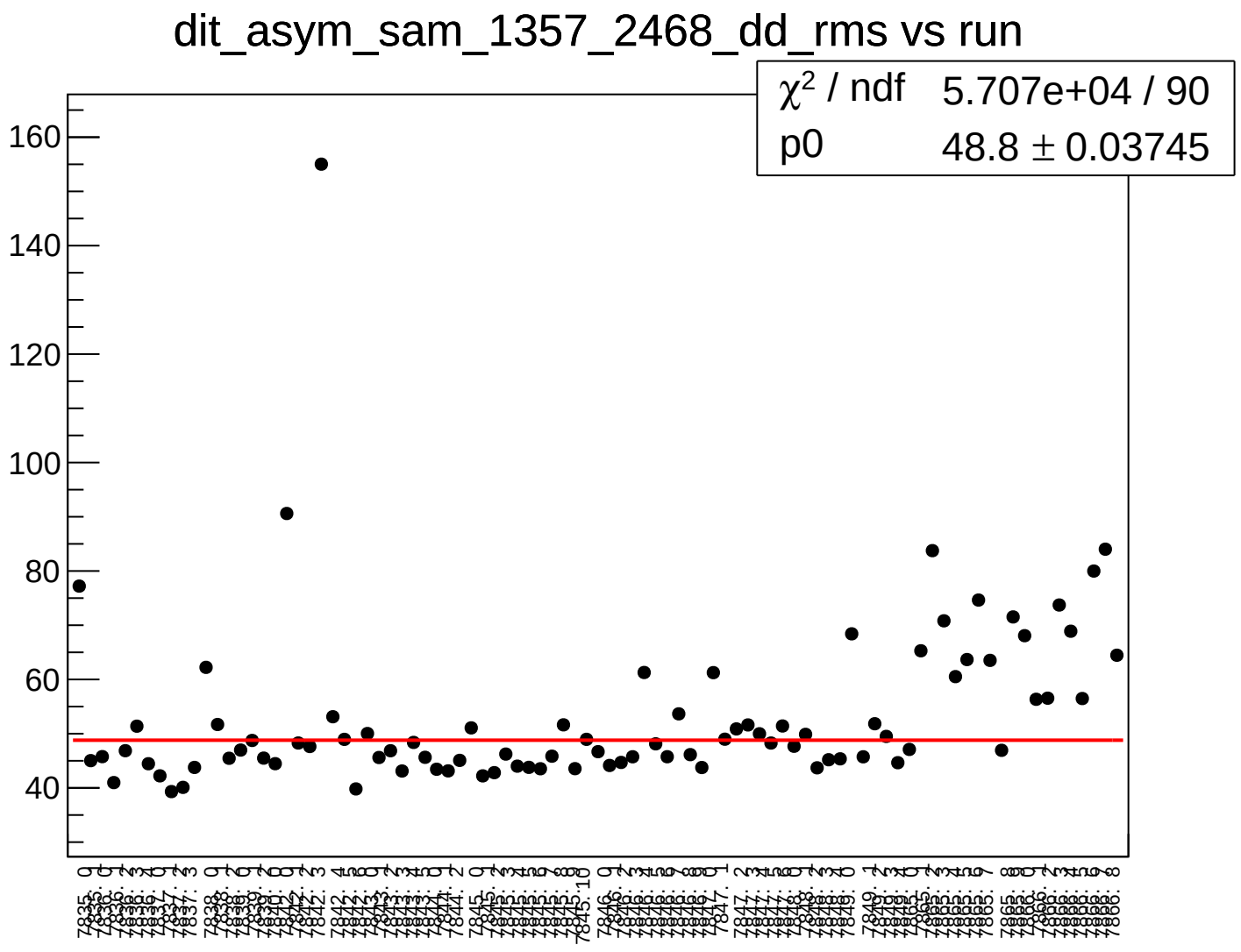

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.13e+04 / 90
p0 40.92 ± 0.03144
120
100
80
60
40

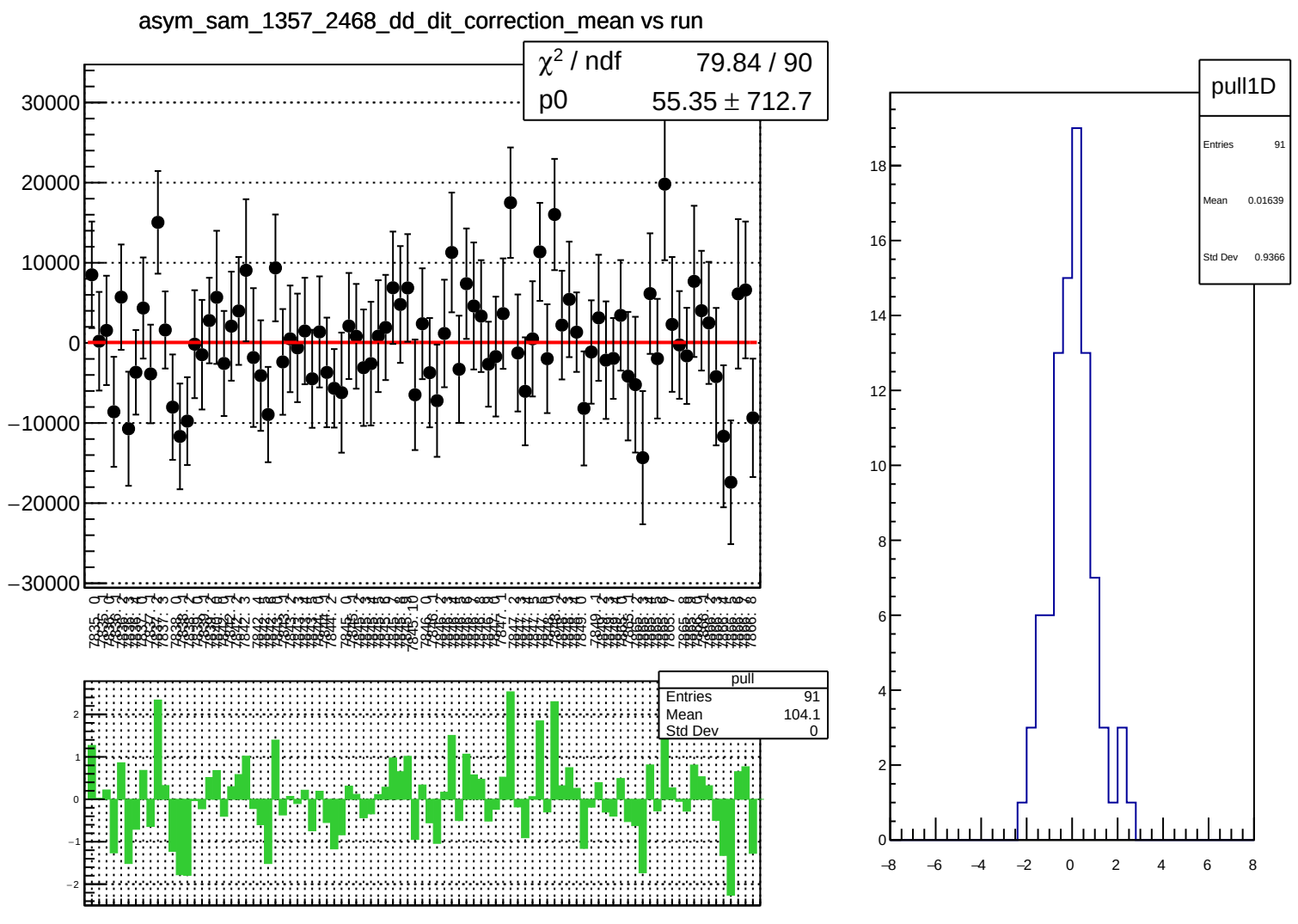

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.63 / 90
p0 79.64 ± 686.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 122.3
Std Dev 0
2
1
0
−1
−2

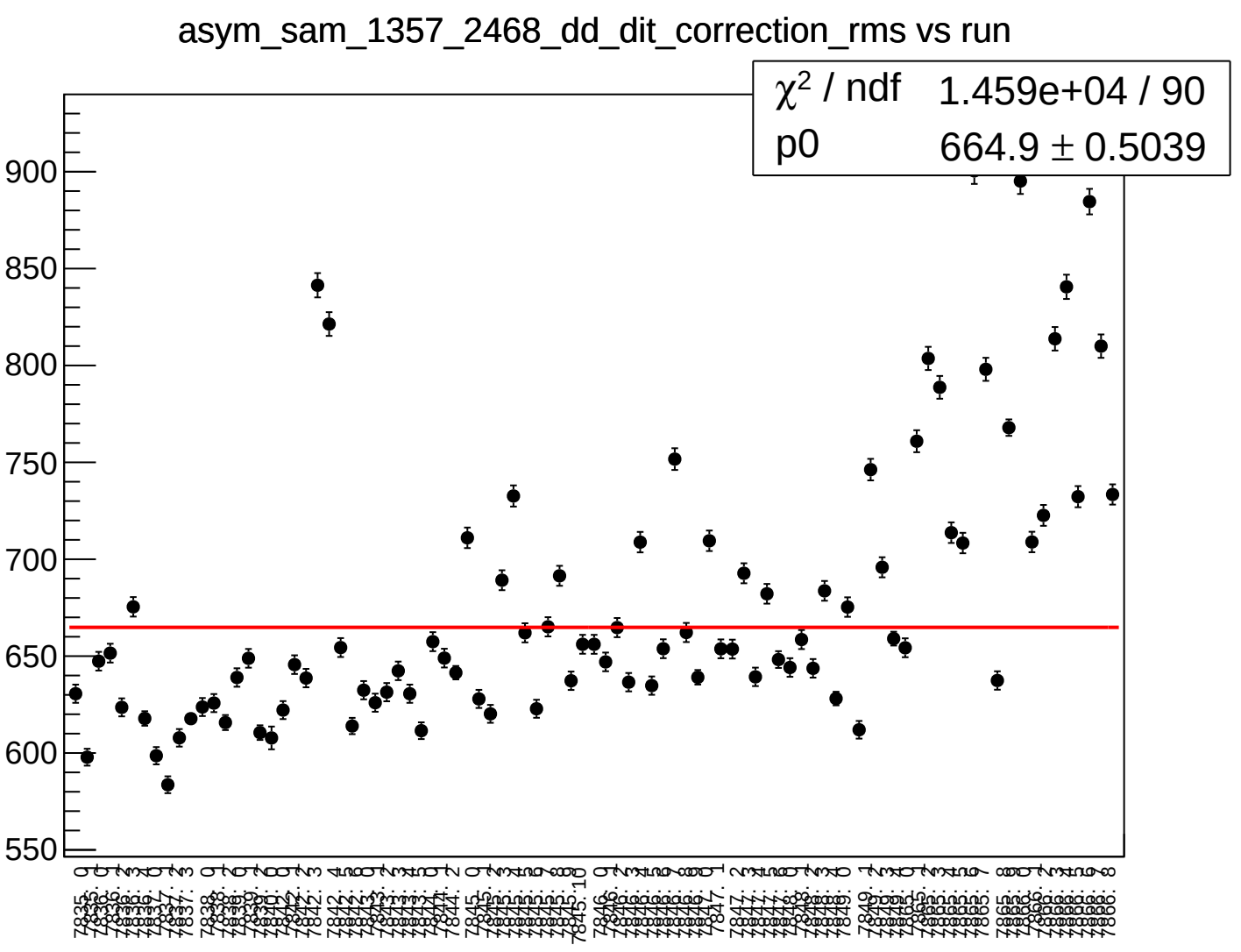

pull1D
Entries 91
Mean 0.01469
Std Dev 0.9353
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

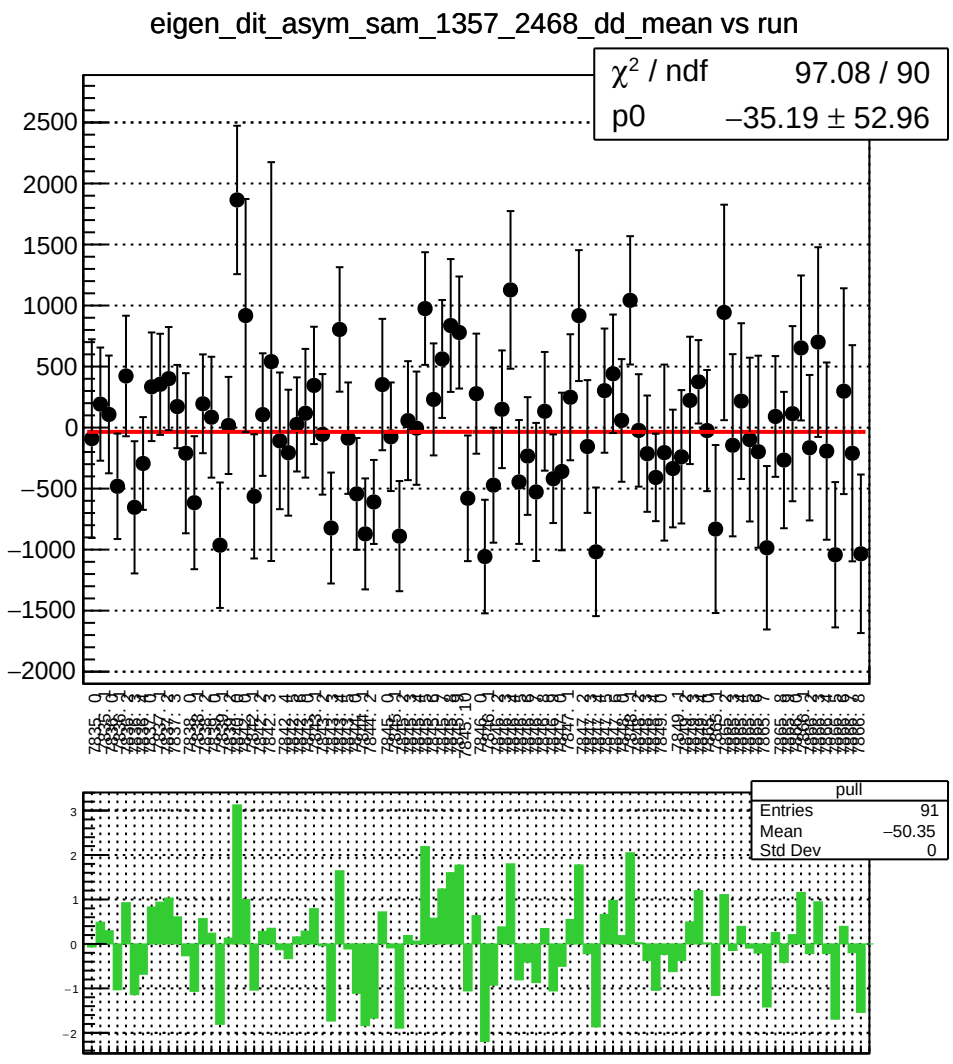

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.53e+04 / 90
p0 640.6 ± 0.4857
900
850
800
750
700
650
600
550

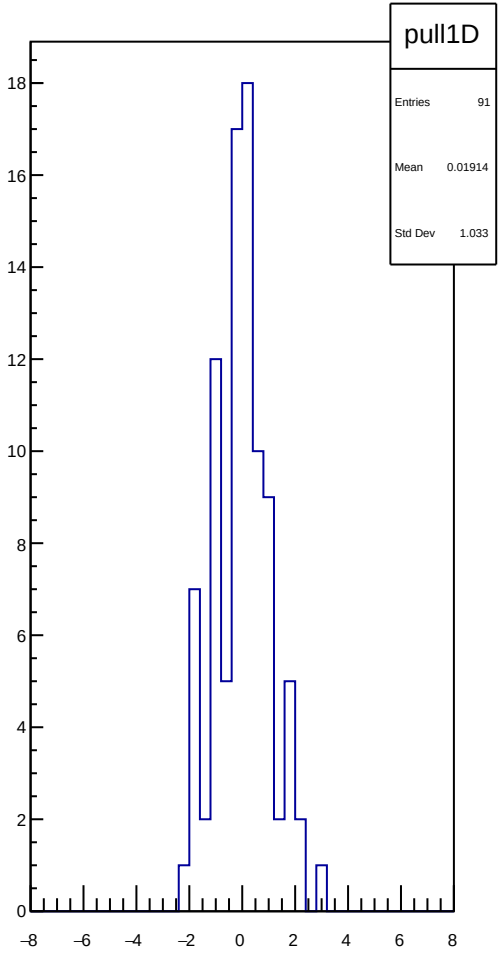

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 97.08 / 90
p0 −35.19 ± 52.96
pull
Entries 91
Mean −50.35
Std Dev 0
pull1D
Entries 91
Mean 0.01914
Std Dev 1.033

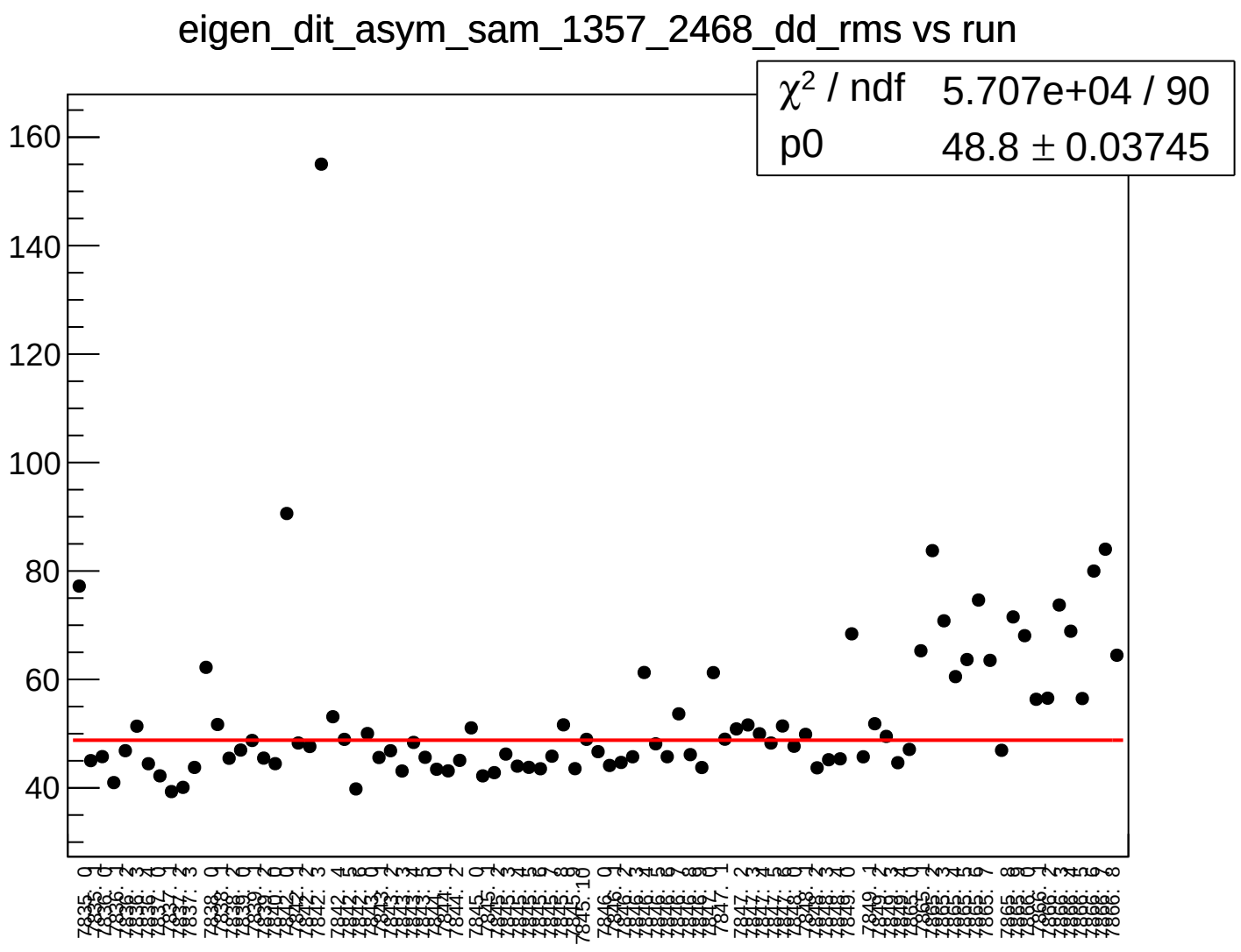

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5.707e+04 / 90
p0 48.8 ± 0.03745
160
140
120
100
80
60
40

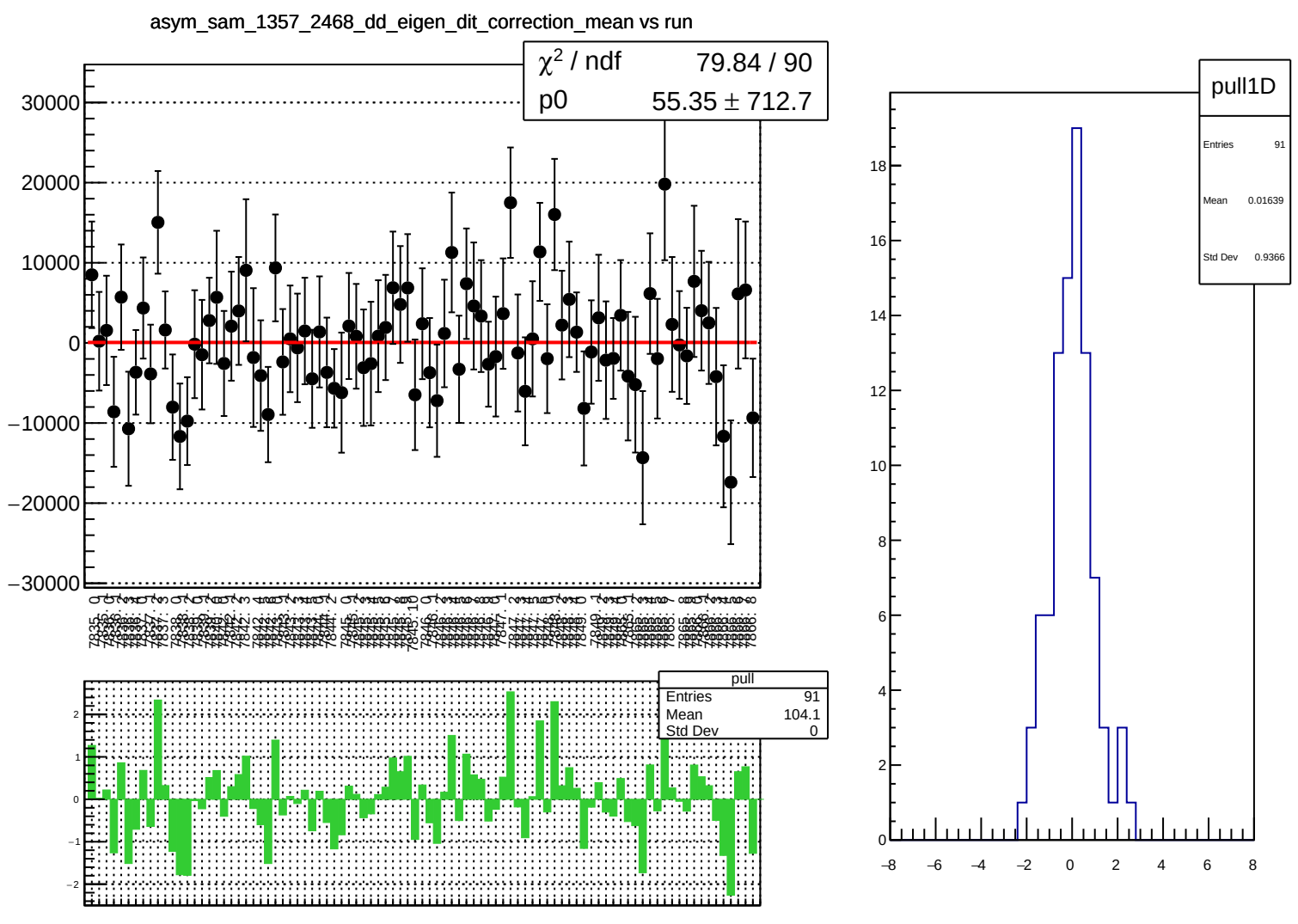

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 79.84 / 90
p0 55.35 ± 712.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 104.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01639
Std Dev 0.9366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

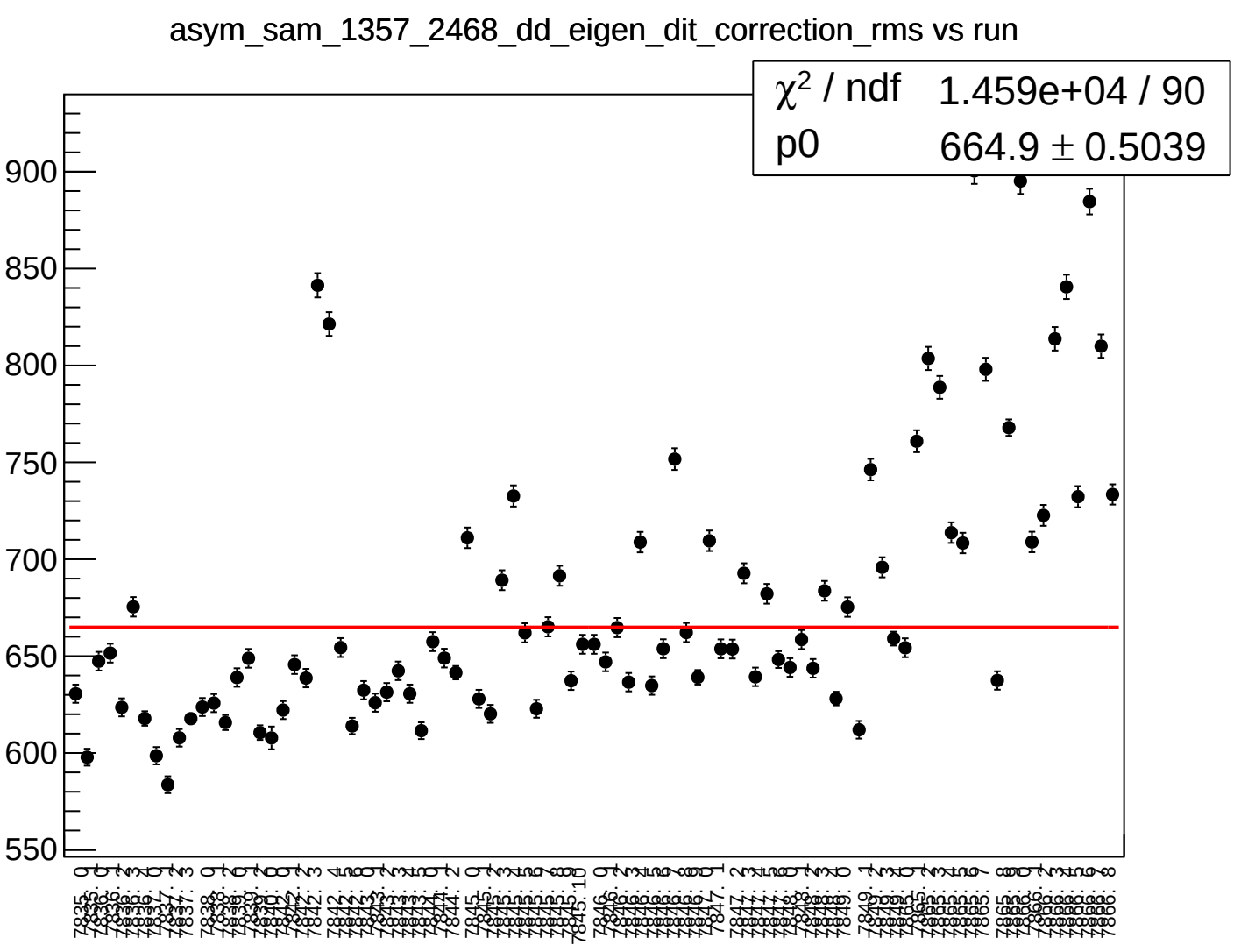

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.459e+04 / 90
p0 664.9 ± 0.5039
900
850
800
750
700
650
600
550

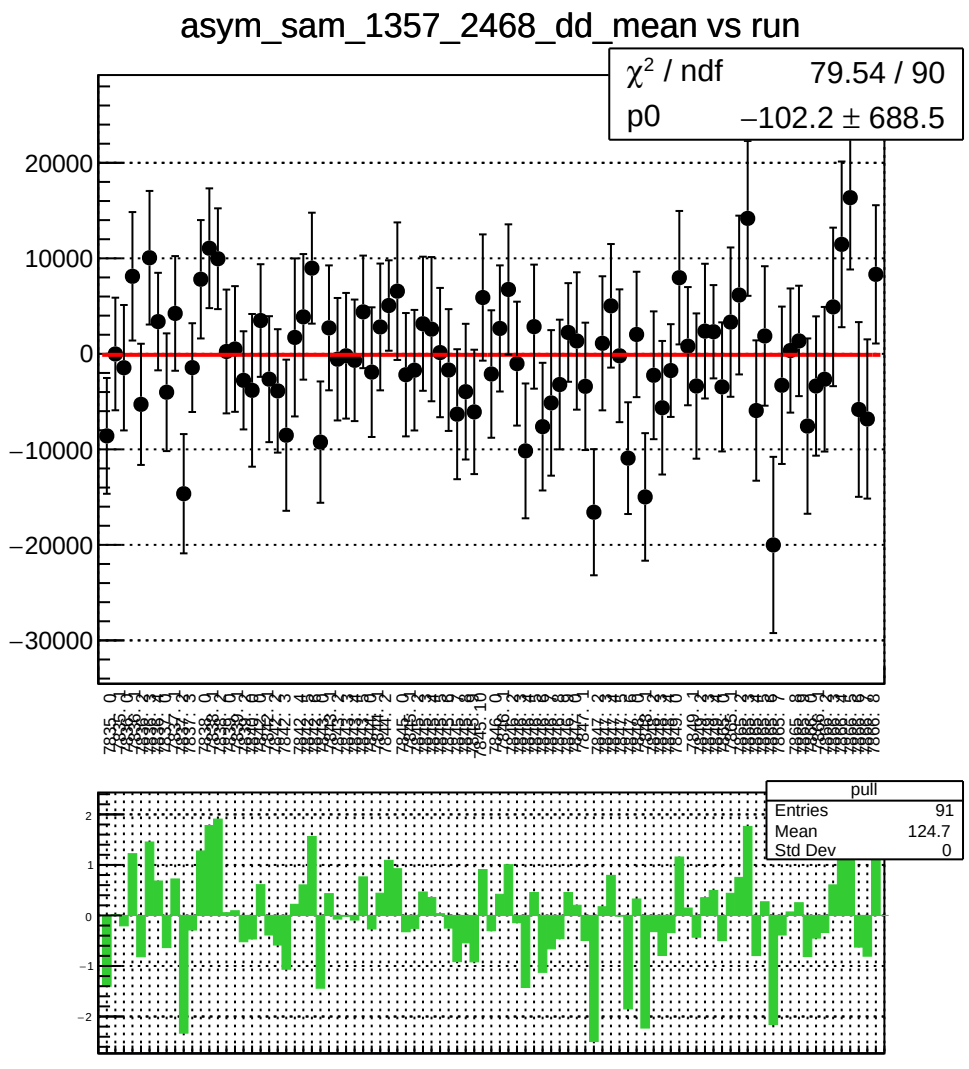

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 97.08 / 90
p0 −35.19 ± 52.96
pull
Entries 91
Mean −50.35
Std Dev 0

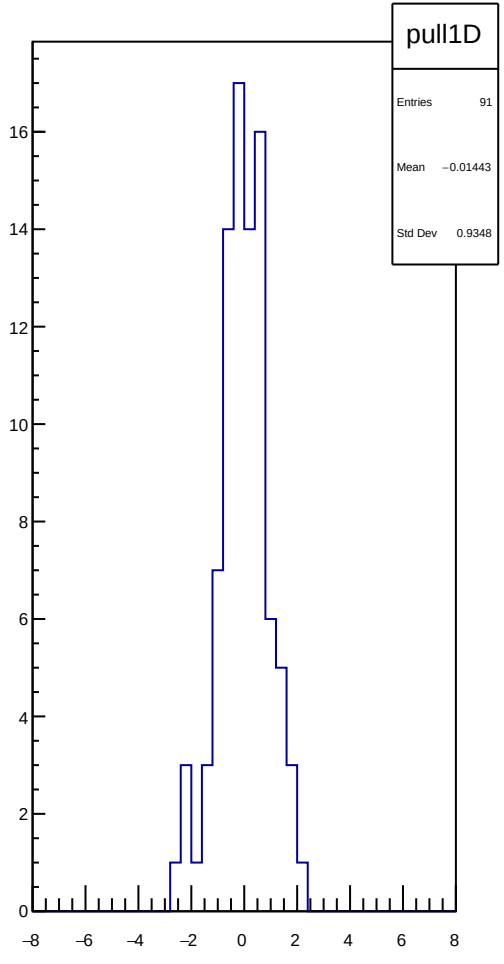

pull1D
Entries 91
Mean 0.01914
Std Dev 1.033

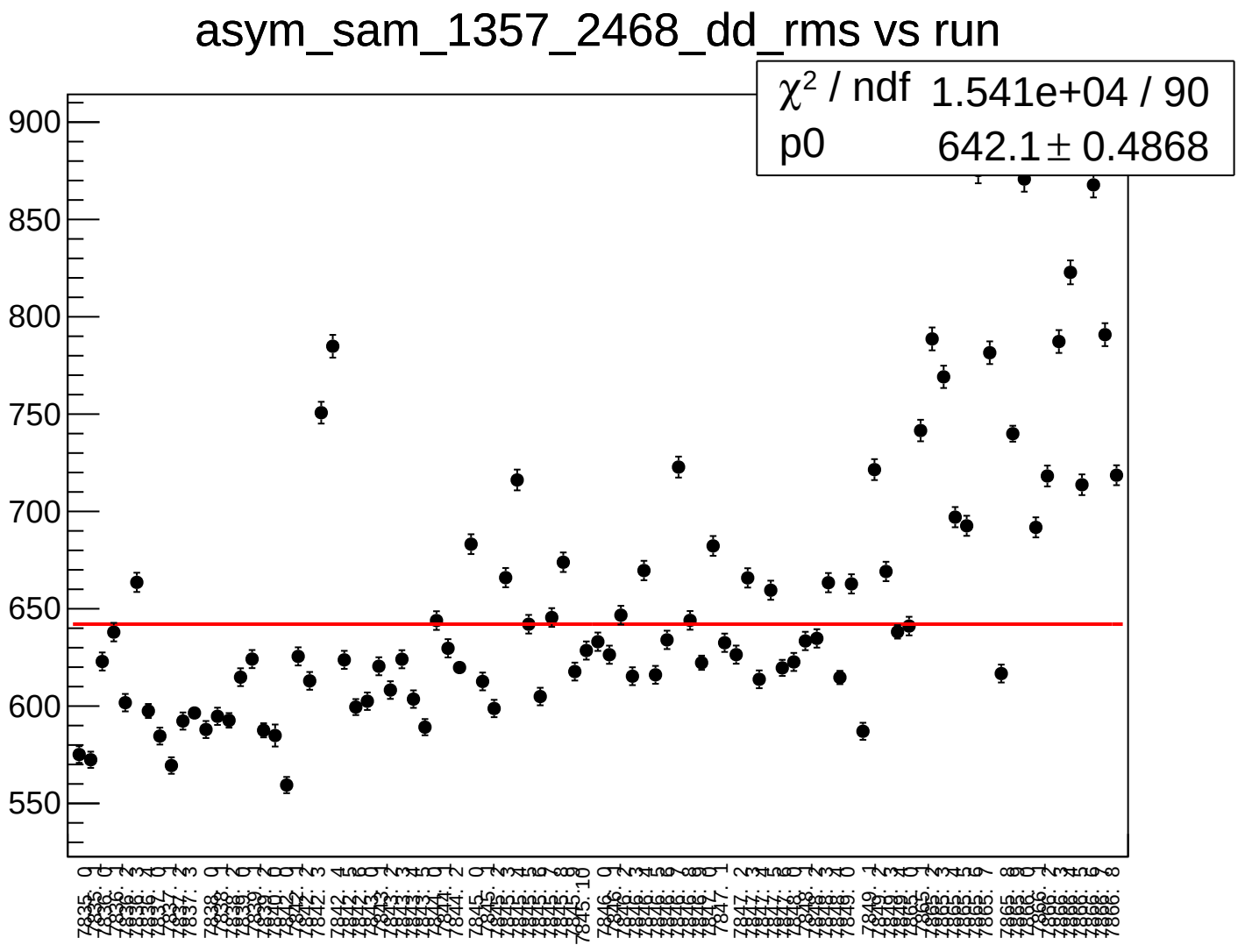

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5.707e+04 / 90
p0 48.8 ± 0.03745
160
140
120
100
80
60
40

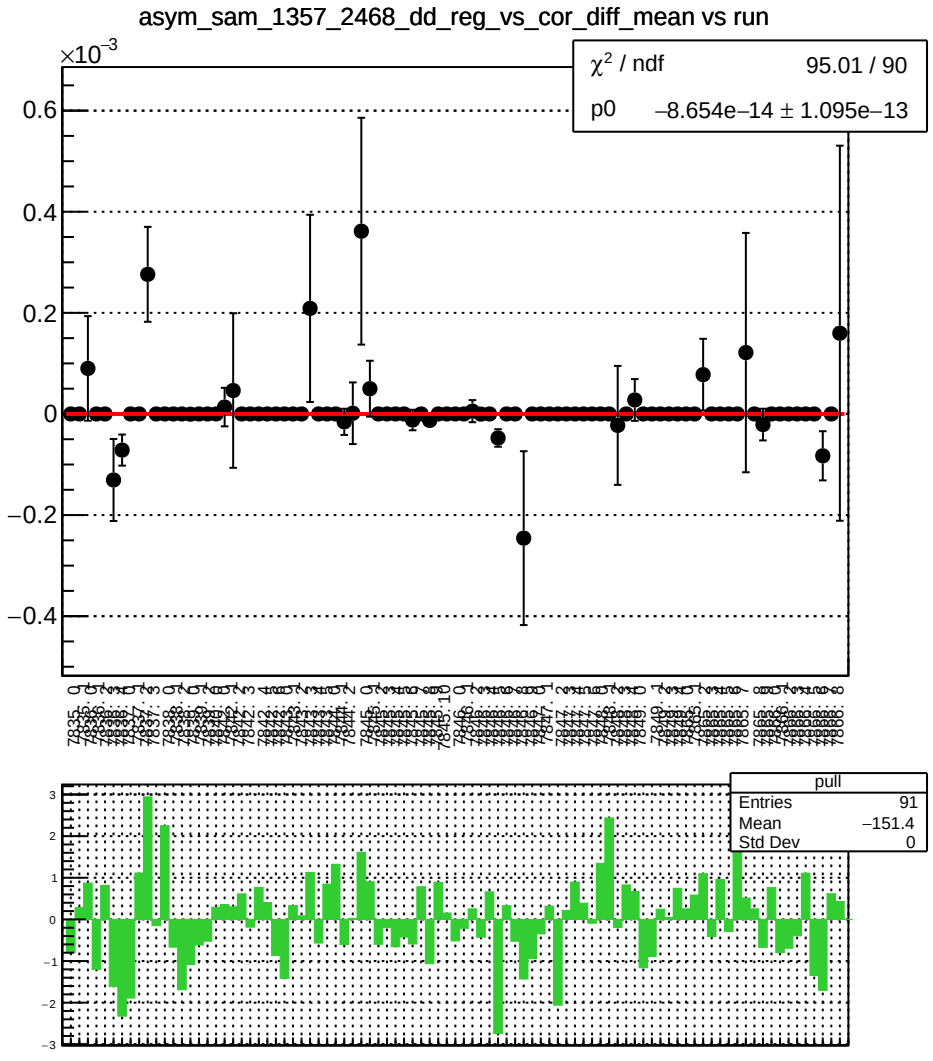

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.84 / 90
p0 55.35 ± 712.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 104.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01639
Std Dev 0.9366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

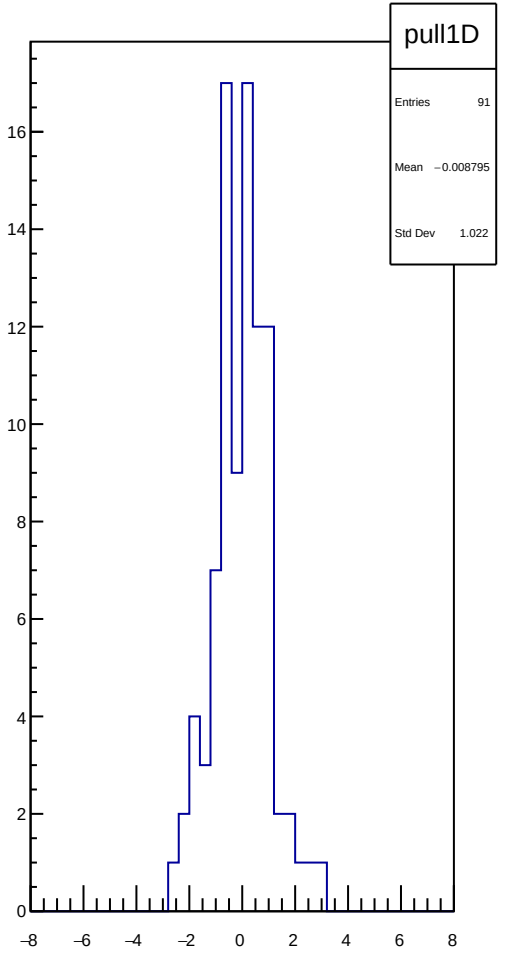

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.459e+04 / 90
p0 664.9 ± 0.5039
900
850
800
750
700
650
600
550

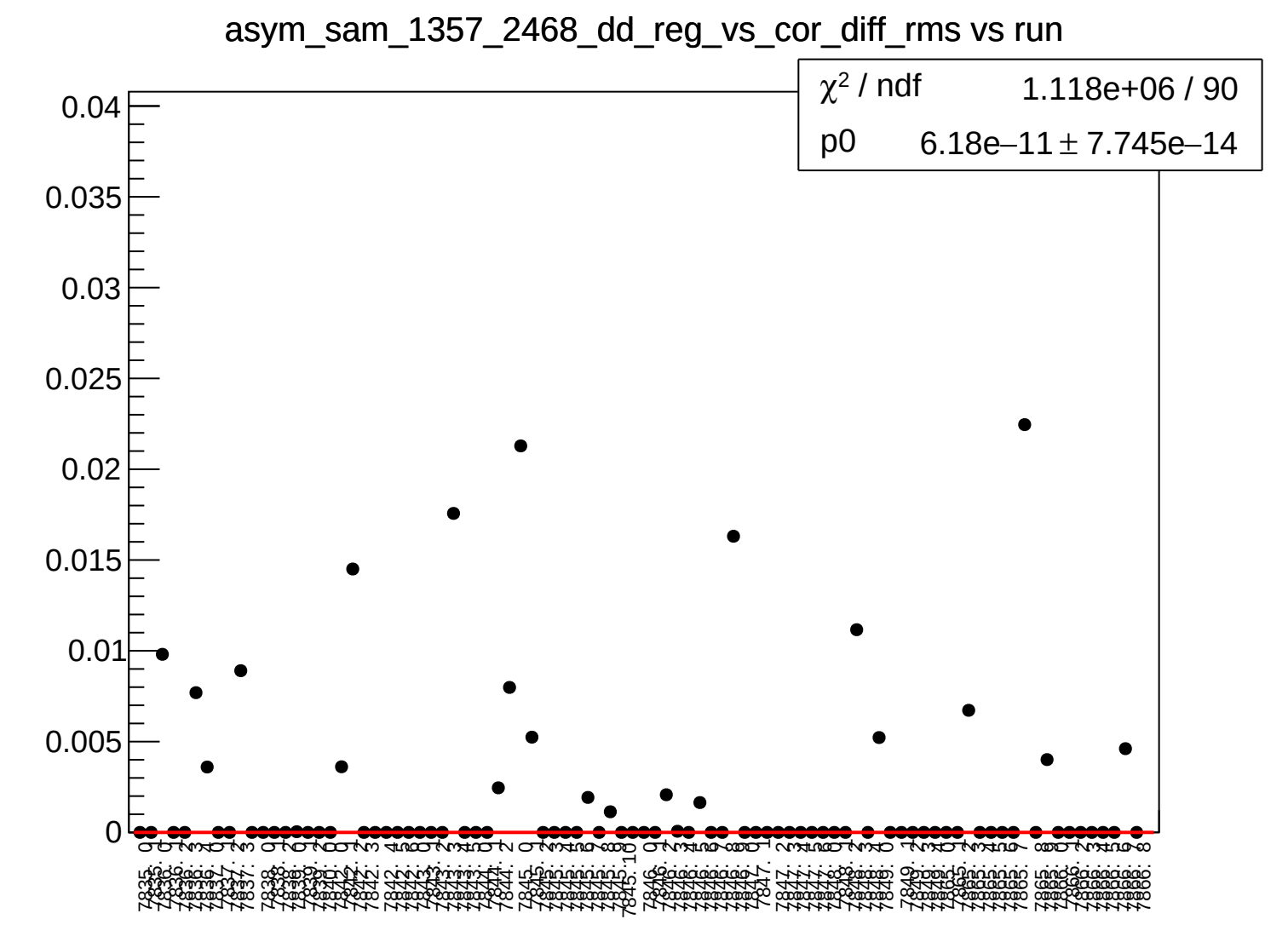

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.54 / 90
p0 −102.2 ± 688.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 124.7
Std Dev 0
2
1
0
−1
−2

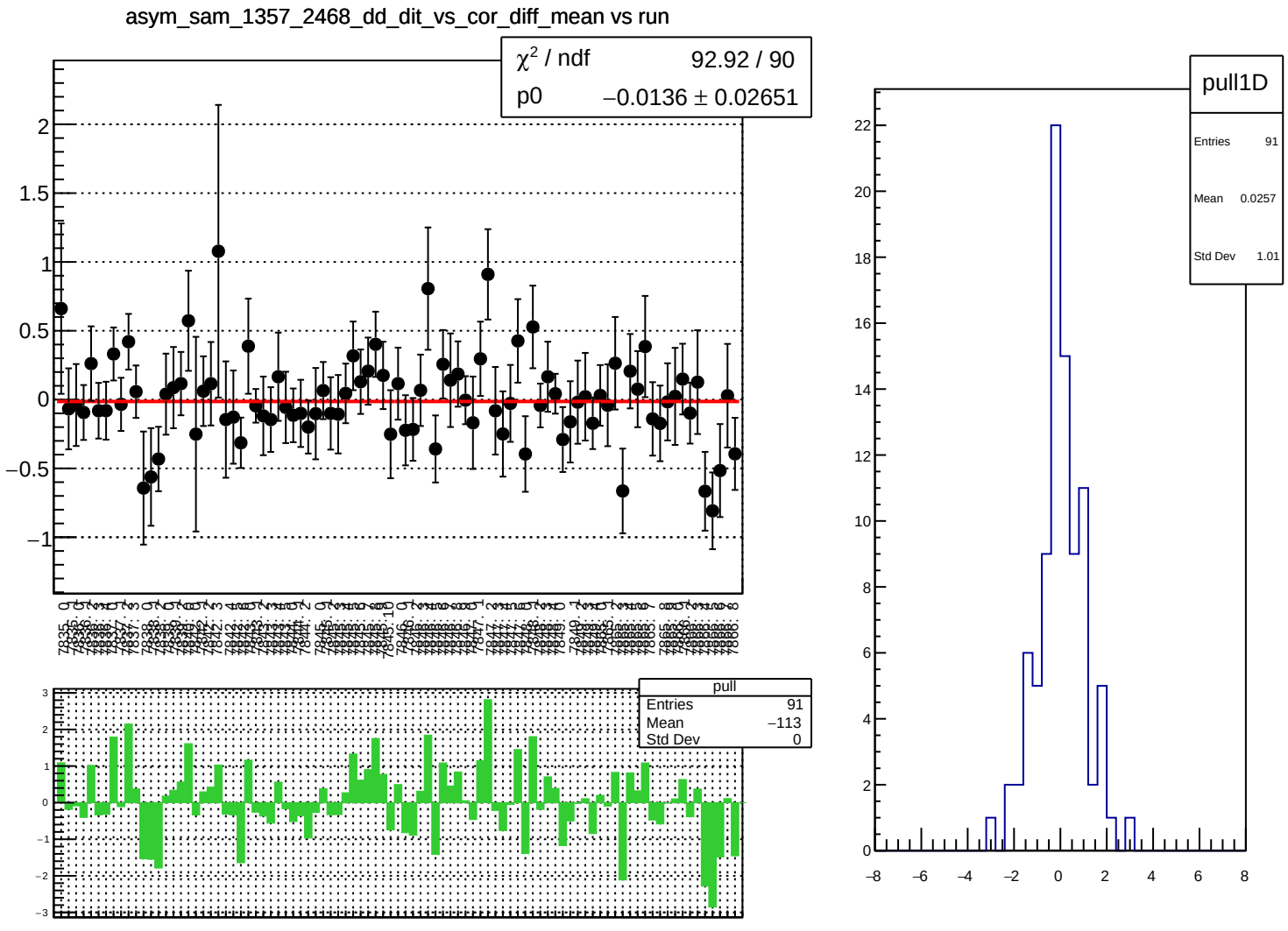

pull1D
Entries 91
Mean −0.01443
Std Dev 0.9348
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

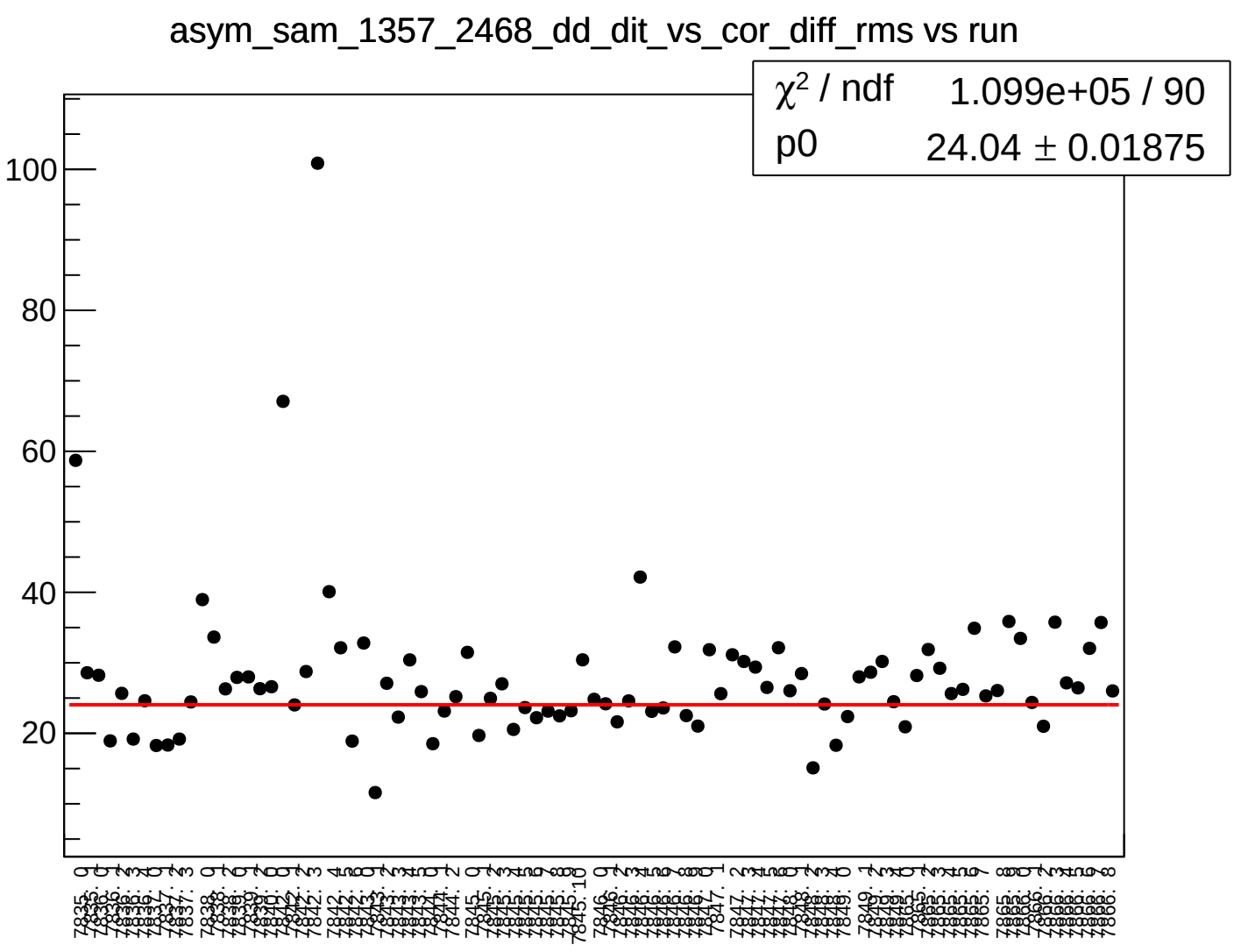

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.541e+04 / 90
p0 642.1 ± 0.4868
900
850
800
750
700
650
600
550

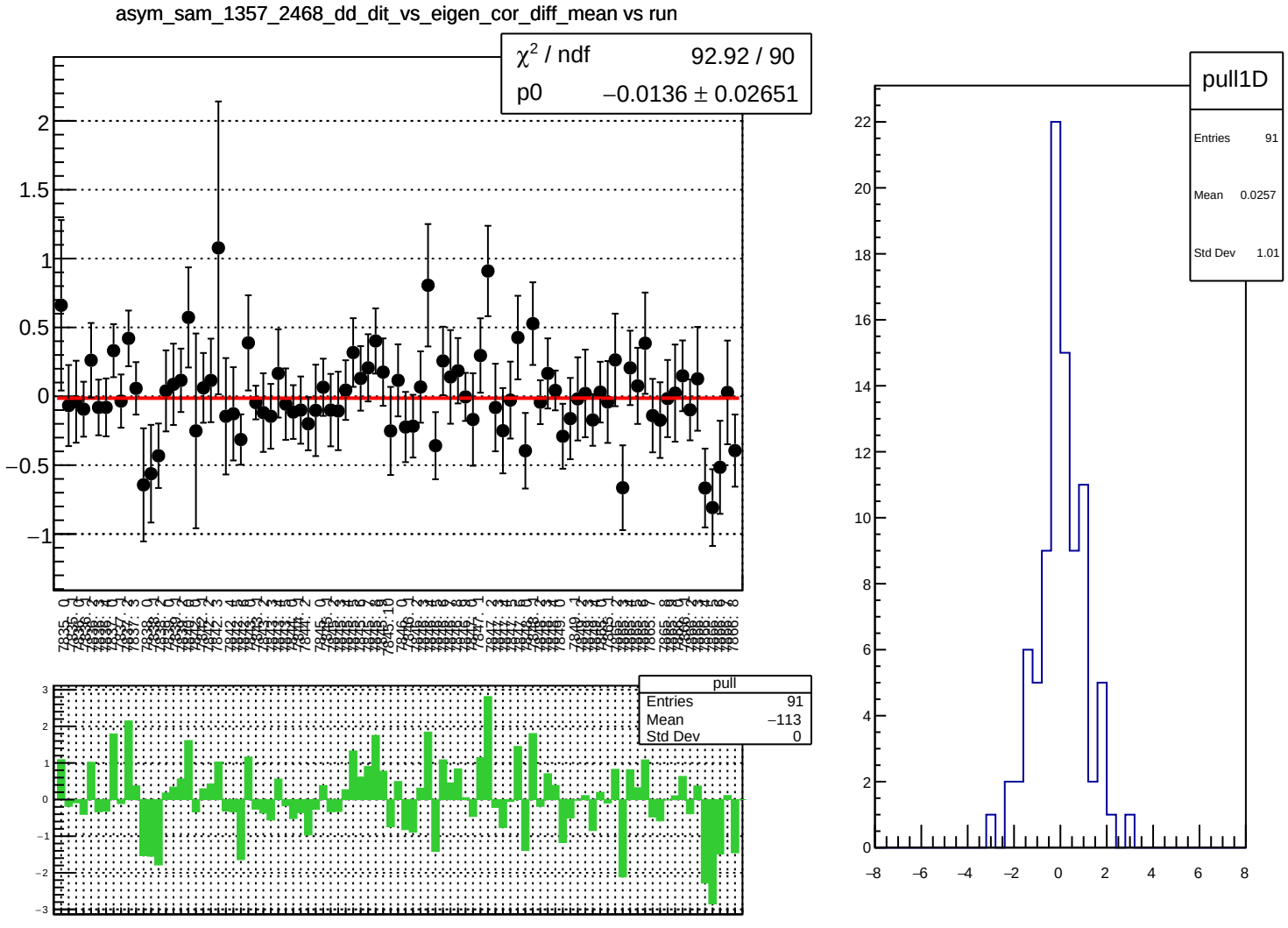

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.01 / 90
p0 −8.654e−14 ± 1.095e−13
pull
Entries 91
Mean −151.4
Std Dev 0

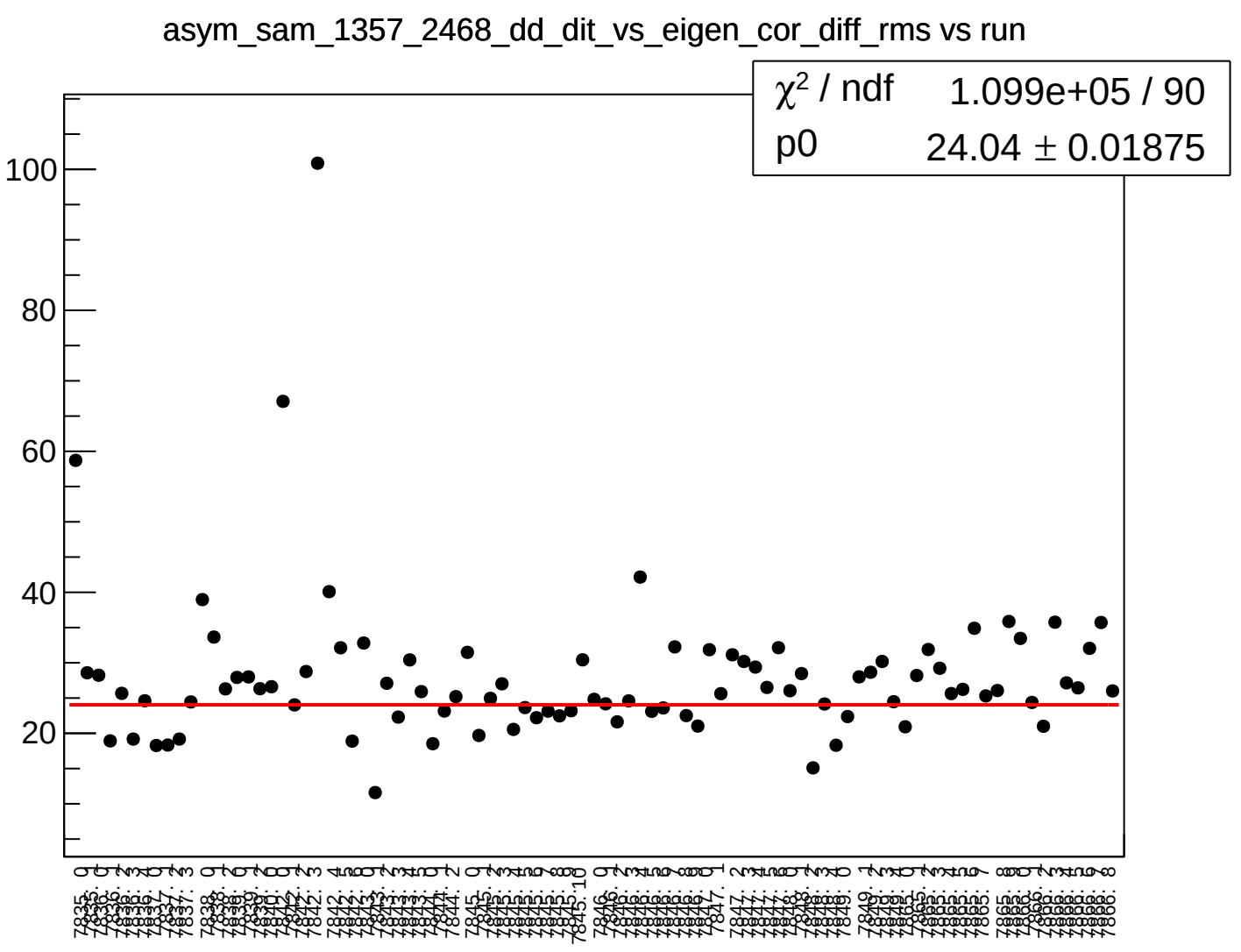

pull1D
Entries 91
Mean −0.008795
Std Dev 1.022

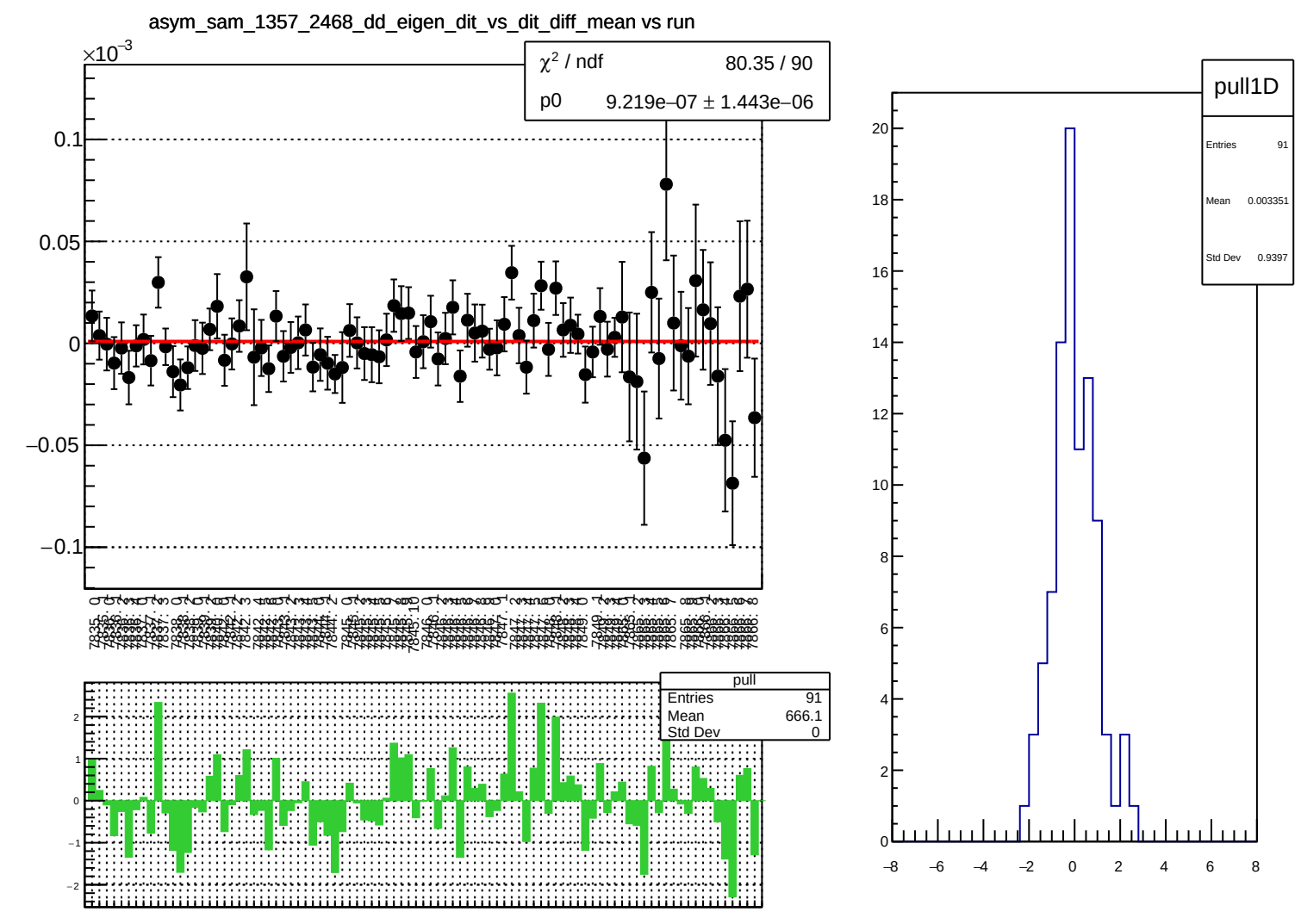

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.118e+06 / 90
p0 6.18e−11 ± 7.745e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

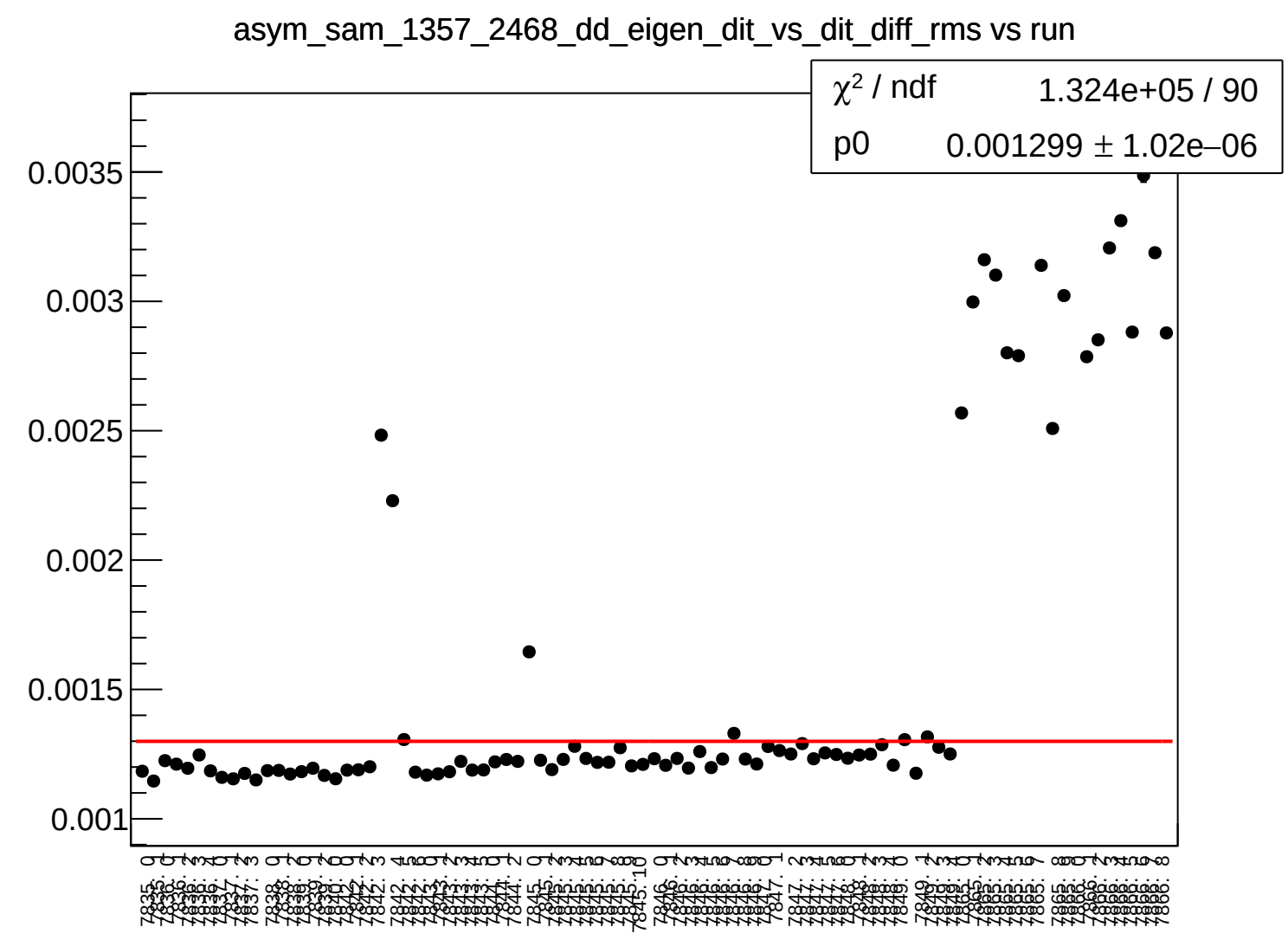

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.92 / 90
p0 −0.0136 ± 0.02651
pull
Entries 91
Mean −113
Std Dev 0
pull1D
Entries 91
Mean 0.0257
Std Dev 1.01

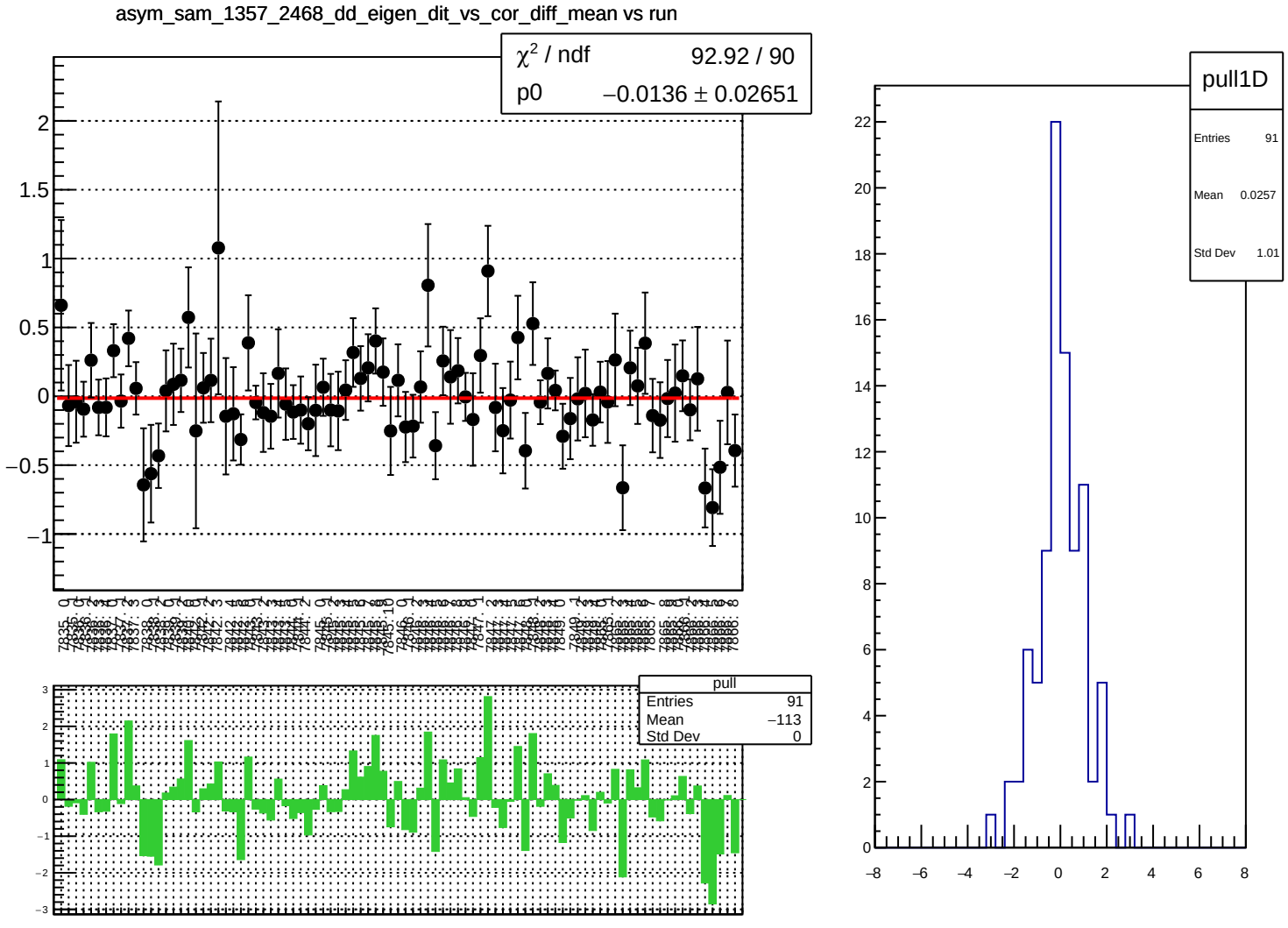

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 90
p0 24.04 ± 0.01875
100
80
60
40
20

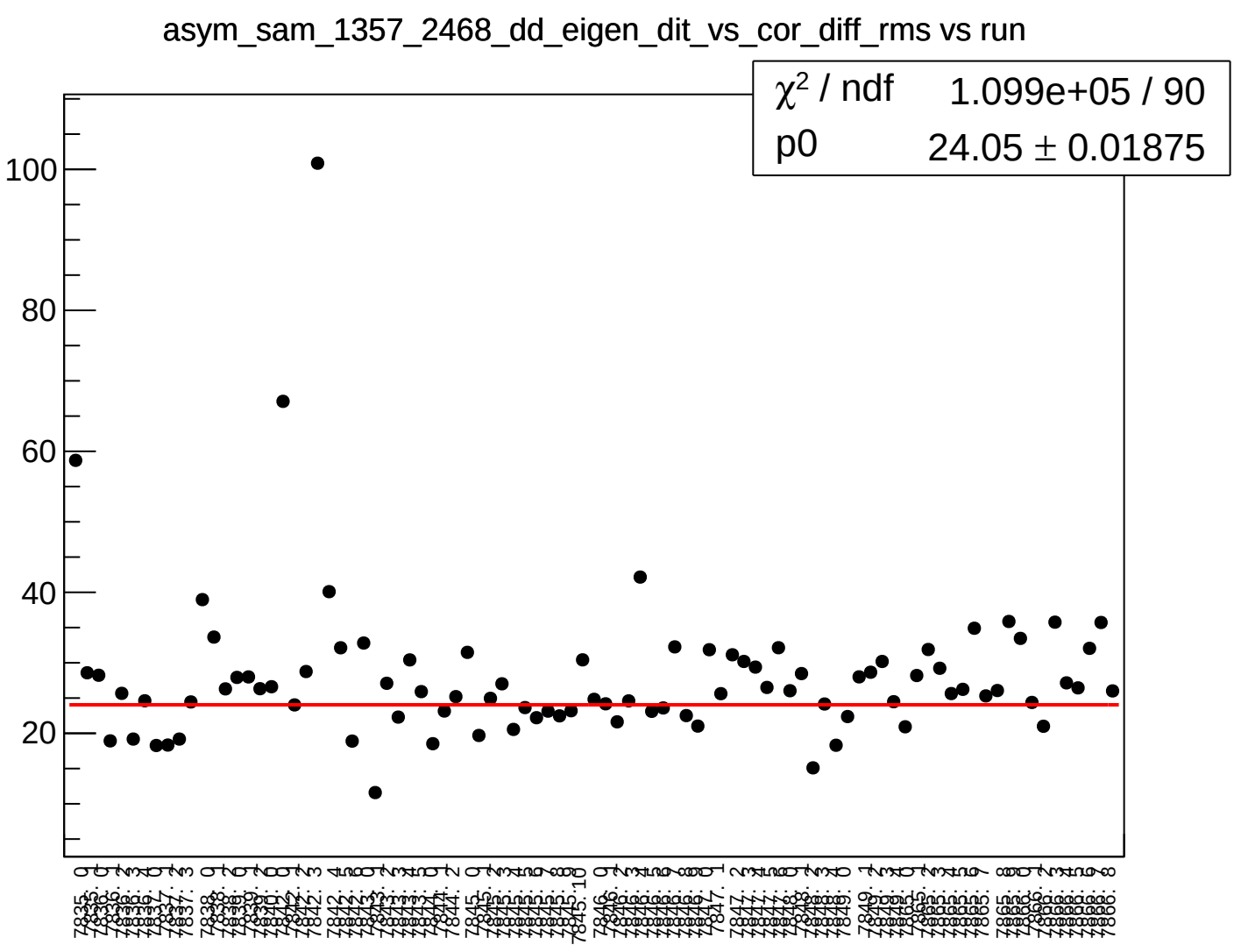

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.92 / 90
p0 −0.0136 ± 0.02651
pull
Entries 91
Mean −113
Std Dev 0
pull1D
Entries 91
Mean 0.0257
Std Dev 1.01

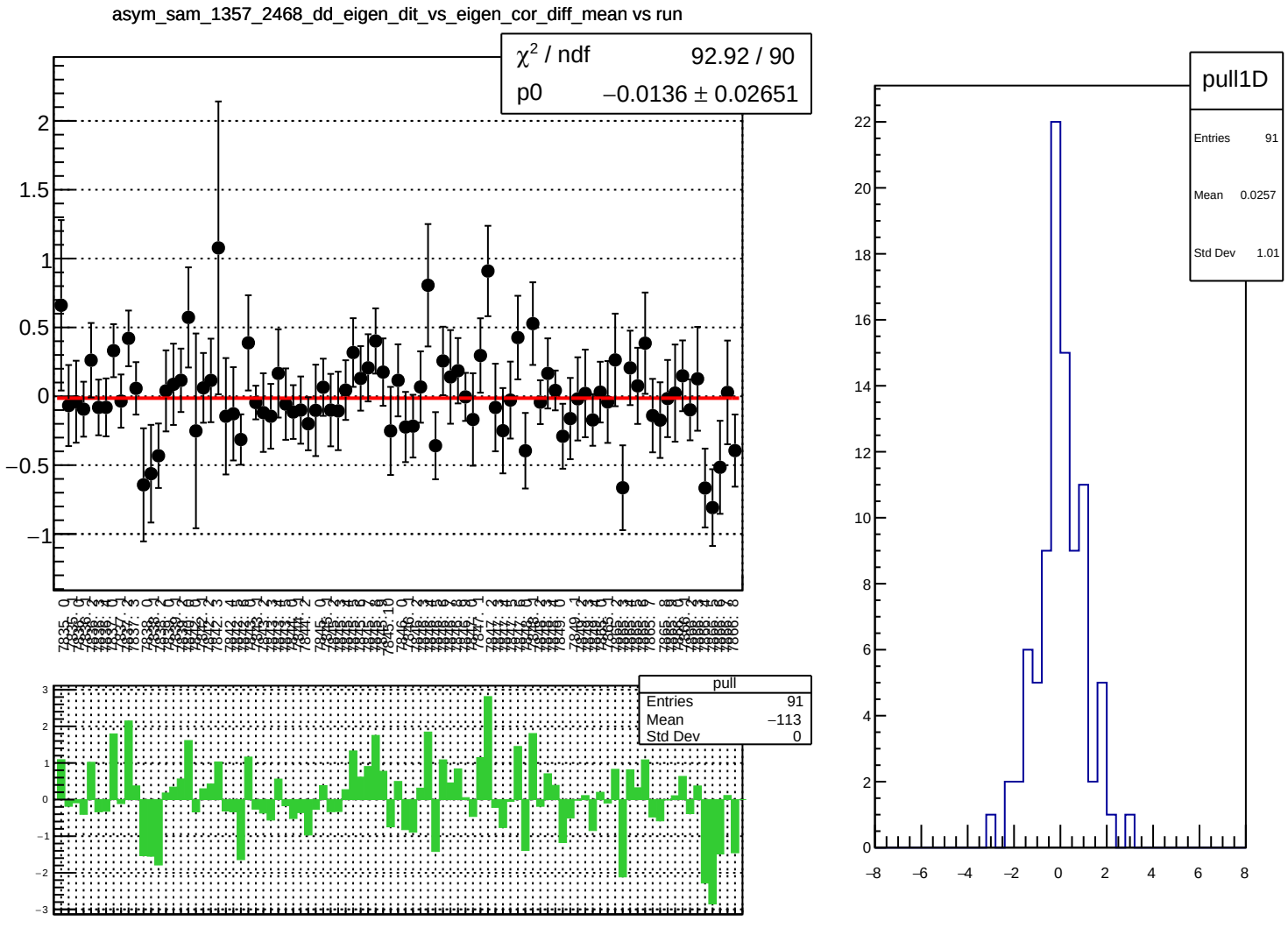

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 90
p0 24.04 ± 0.01875
100
80
60
40
20

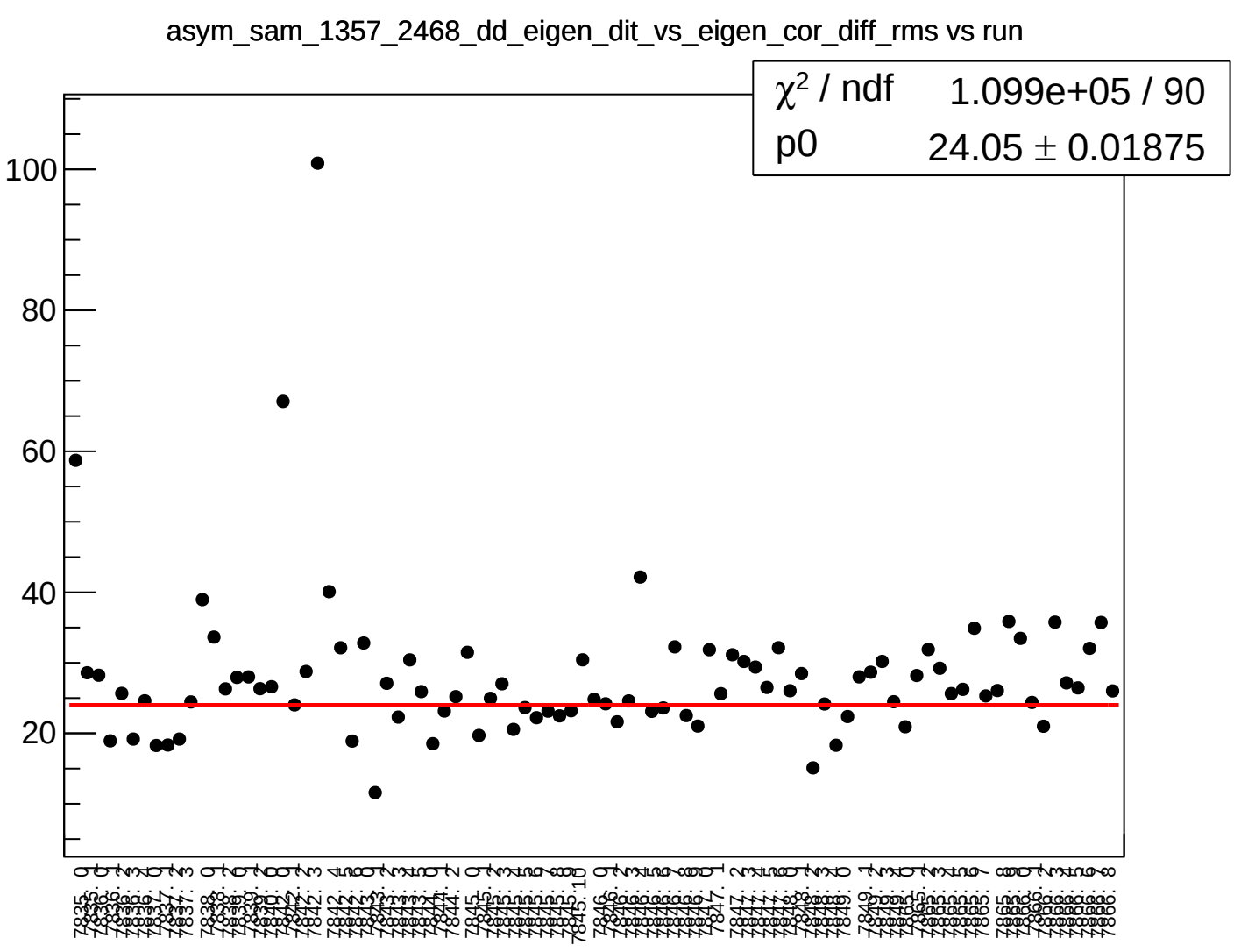

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.35 / 90
p0 9.219e−07 ± 1.443e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 666.1
Std Dev 0
pull1D
Entries 91
Mean 0.003351
Std Dev 0.9397
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

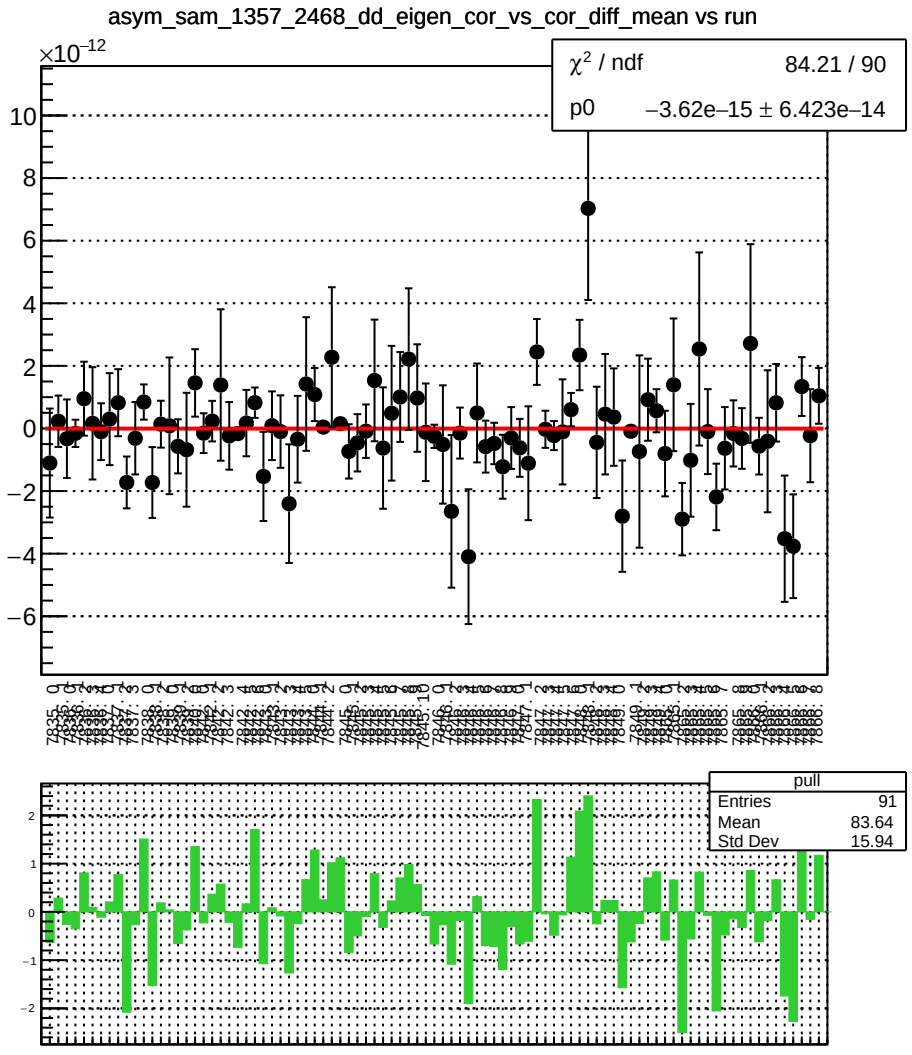

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.324e+05 / 90
p0 0.001299 ± 1.02e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

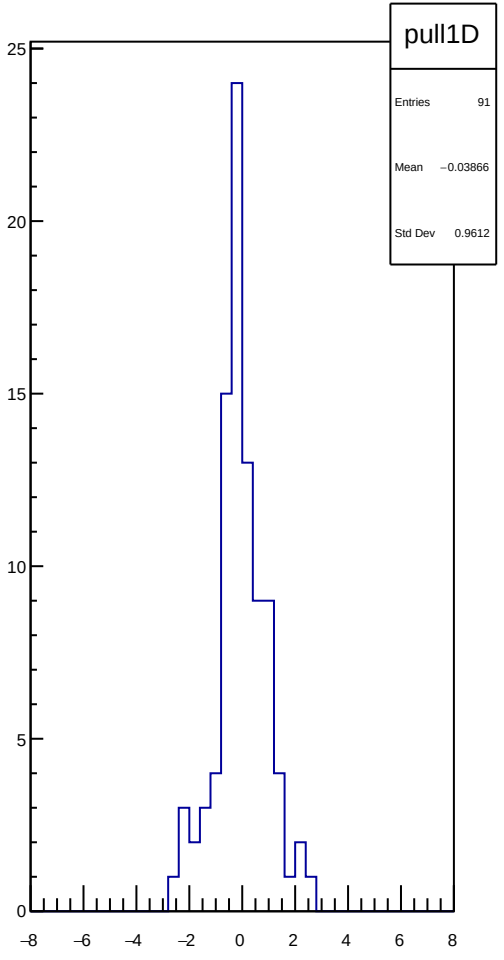

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.92 / 90
p0 −0.0136 ± 0.02651
pull
Entries 91
Mean −113
Std Dev 0
pull1D
Entries 91
Mean 0.0257
Std Dev 1.01

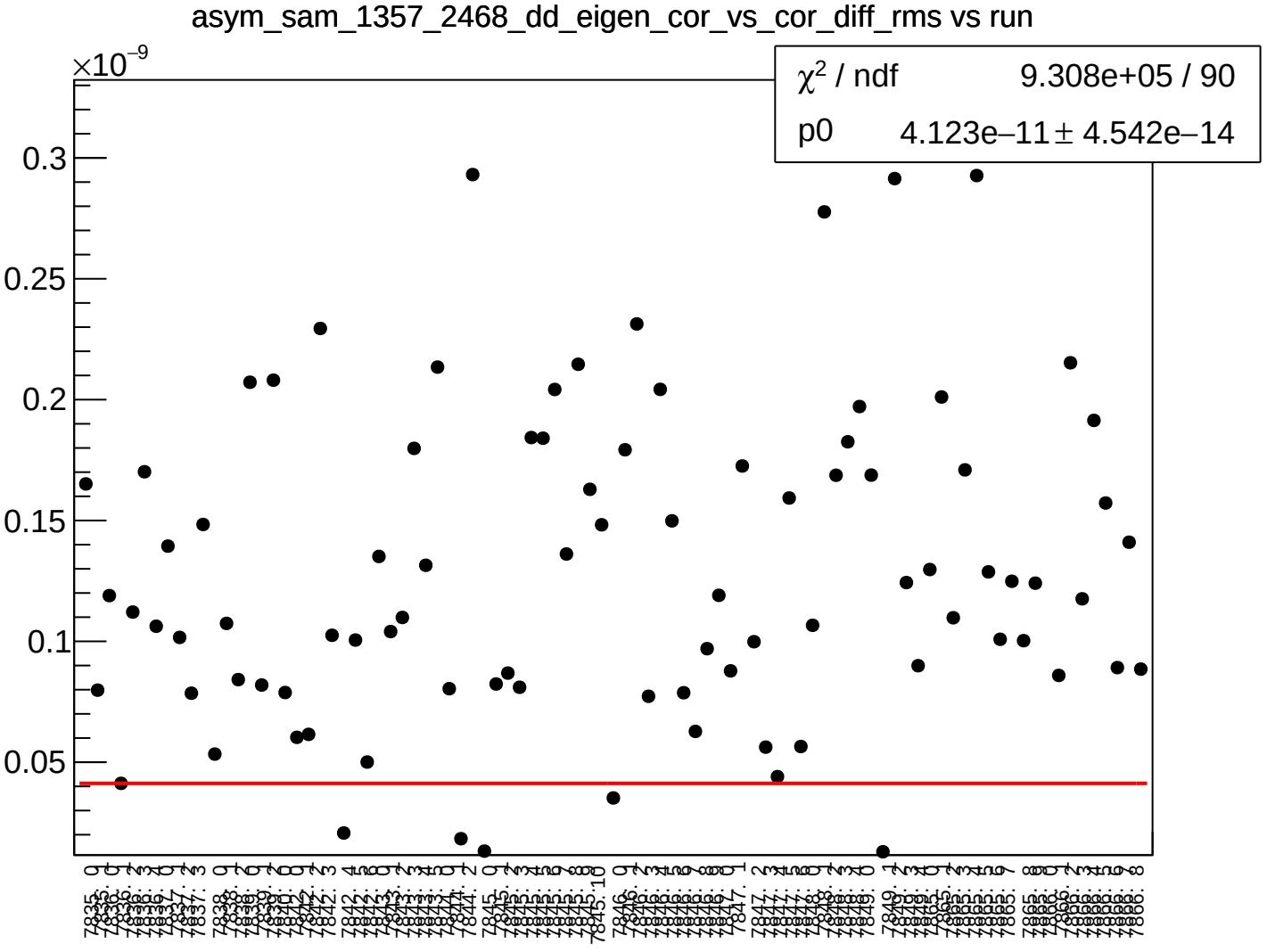

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 90
p0 24.05 ± 0.01875
100
80
60
40
20

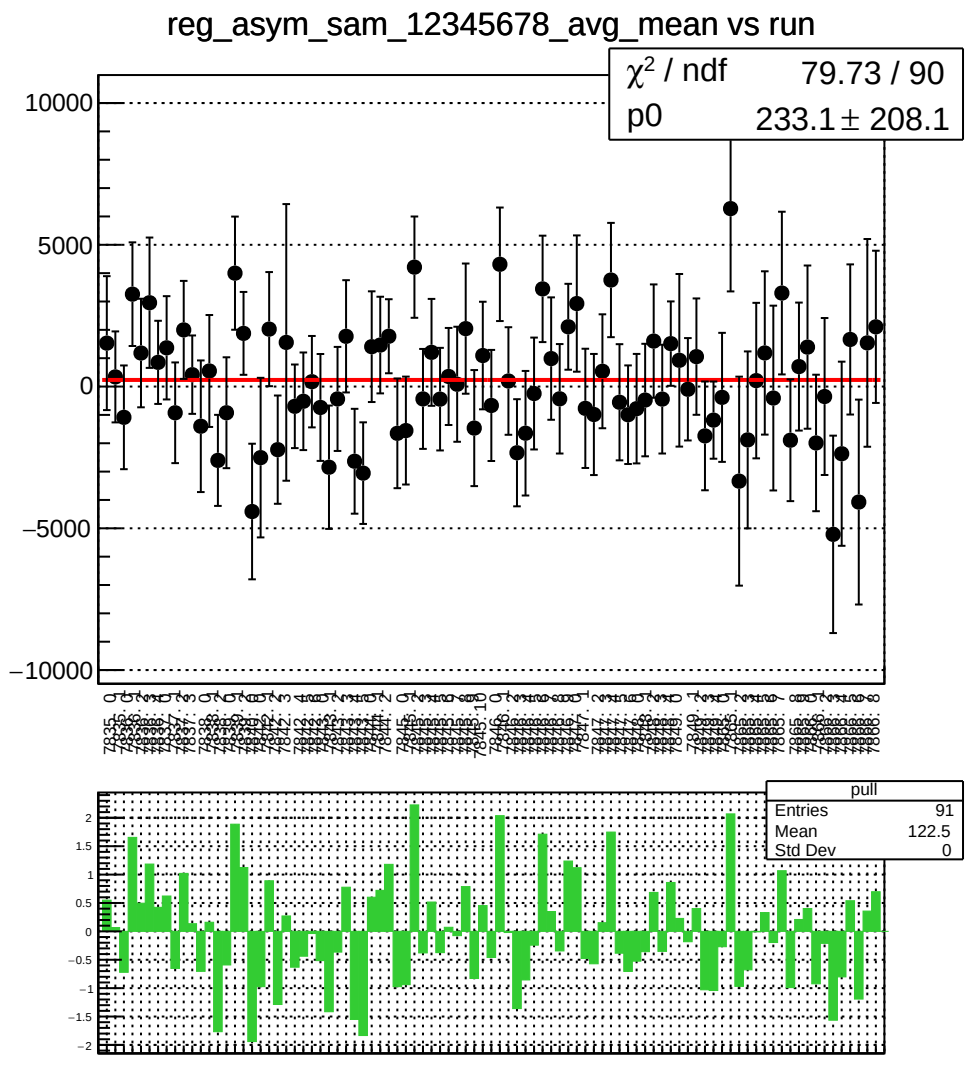

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.92 / 90
p0 −0.0136 ± 0.02651
pull
Entries 91
Mean −113
Std Dev 0
pull1D
Entries 91
Mean 0.0257
Std Dev 1.01

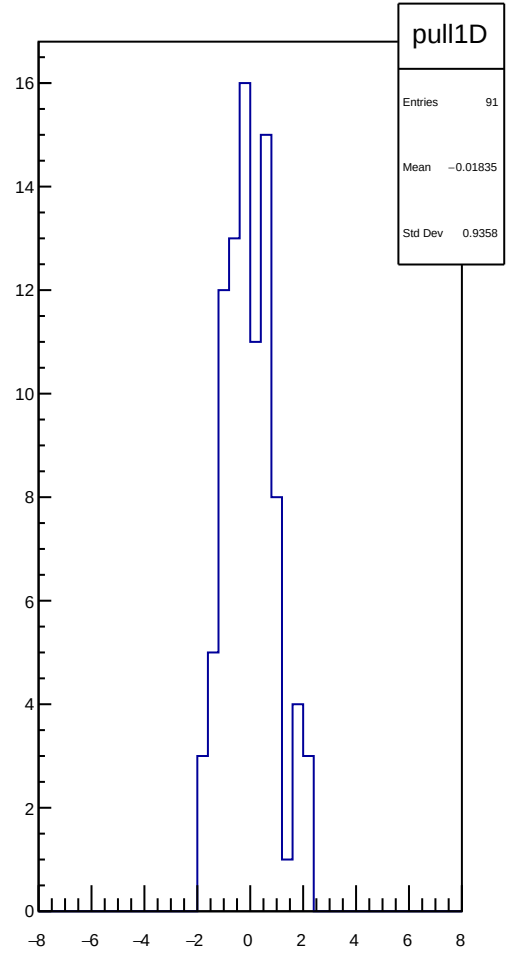

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 90
p0 24.05 ± 0.01875
100
80
60
40
20

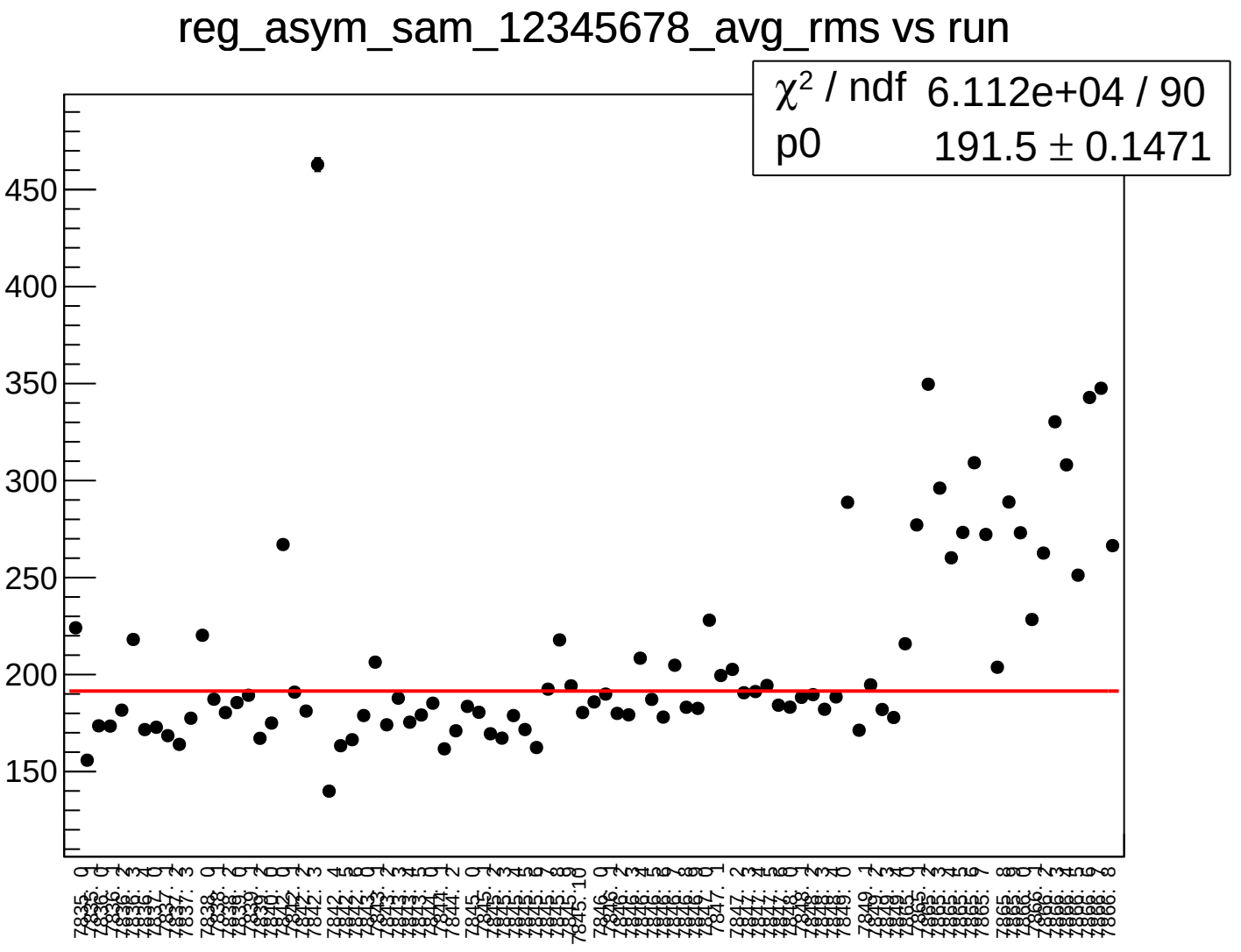

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.21 / 90
p0 −3.62e−15 ± 6.423e−14
pull
Entries 91
Mean 83.64
Std Dev 15.94

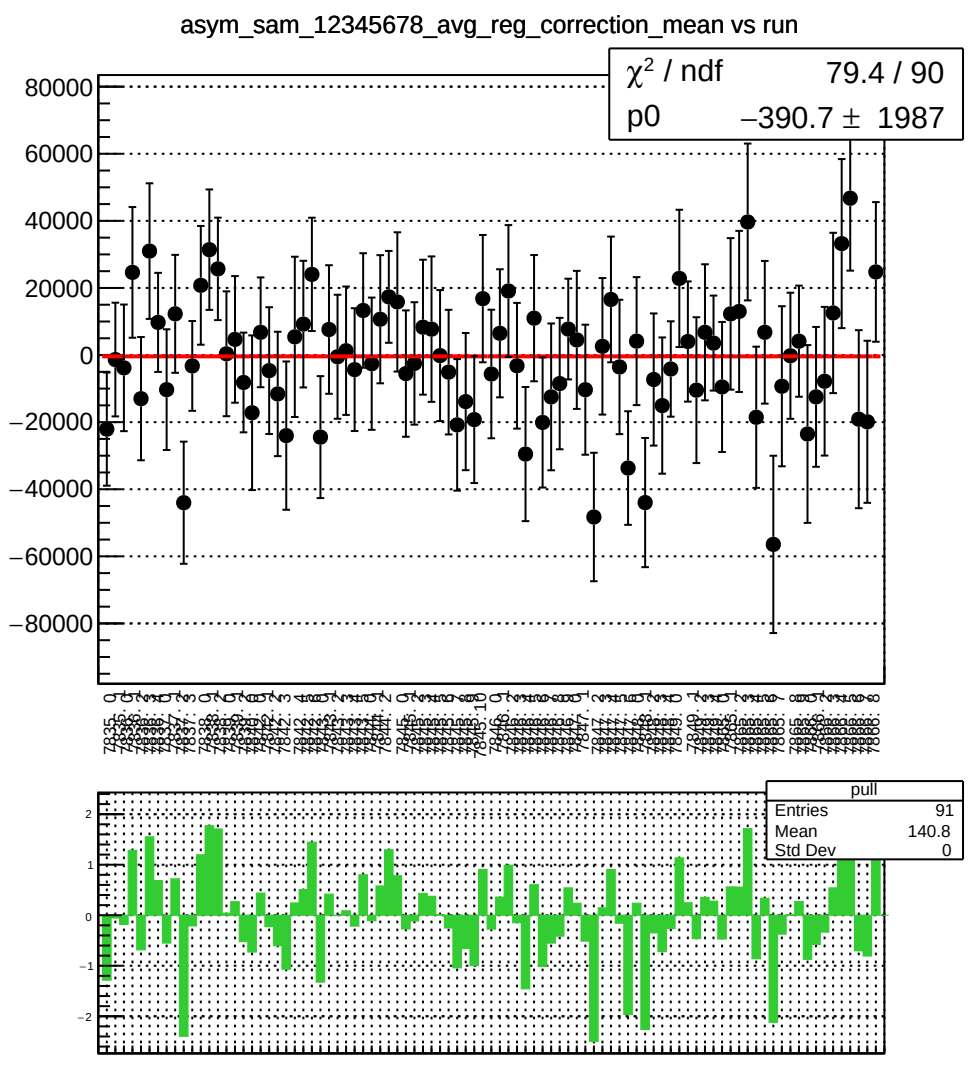

pull1D
Entries 91
Mean −0.03866
Std Dev 0.9612

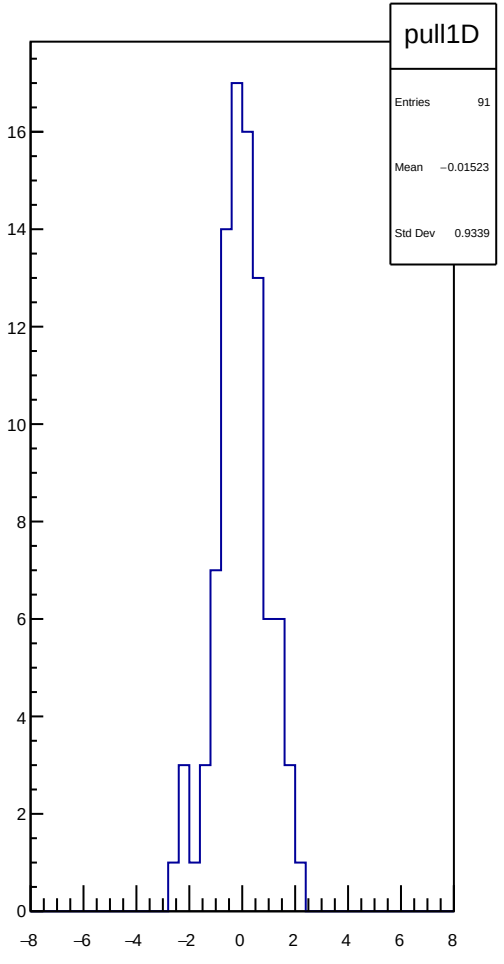

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.308e+05 / 90
p0 4.123e−11 ± 4.542e−14
0.3
0.25
0.2
0.15
0.1
0.05

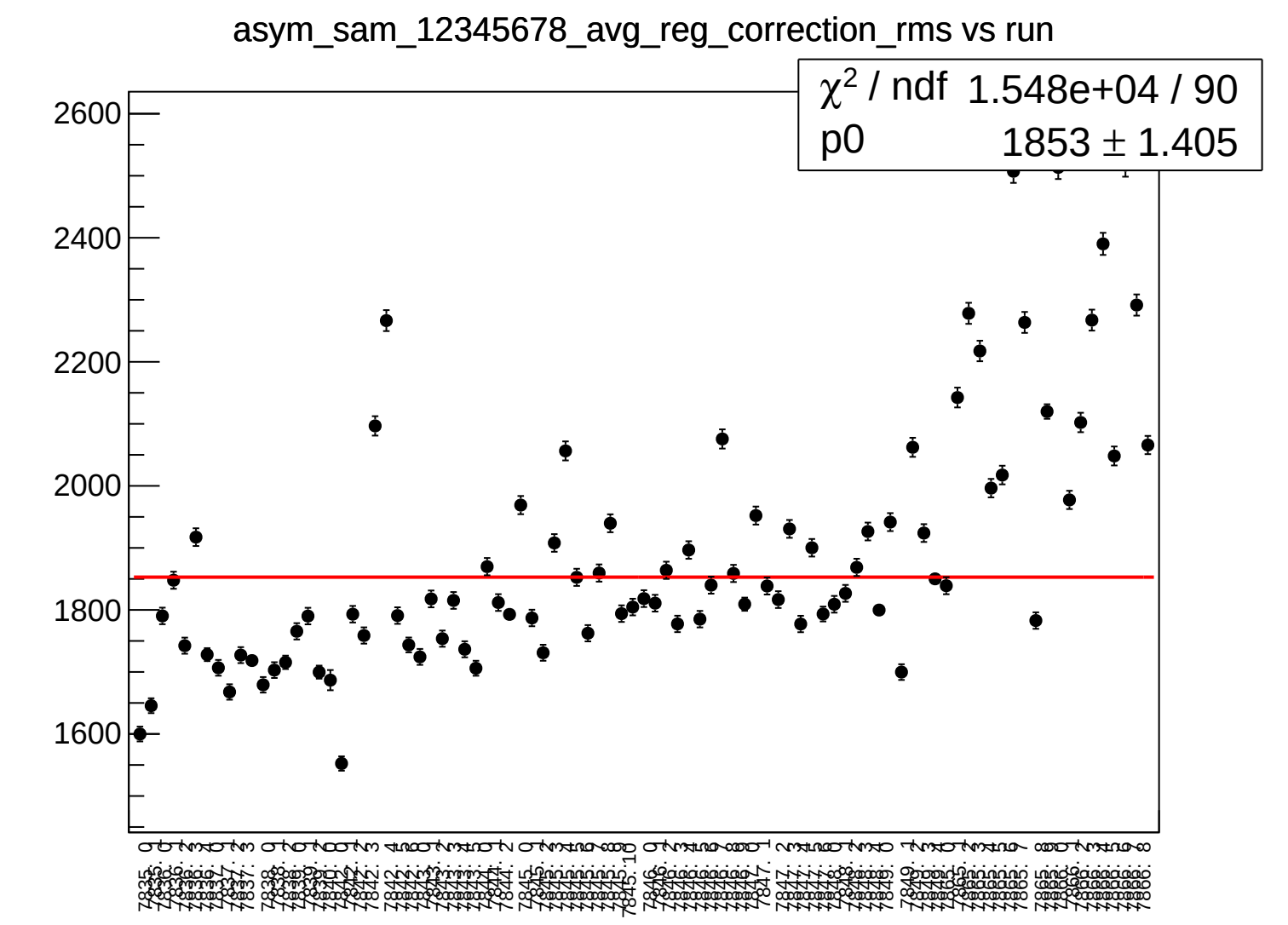

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.73 / 90
p0 233.1 ± 208.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 122.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

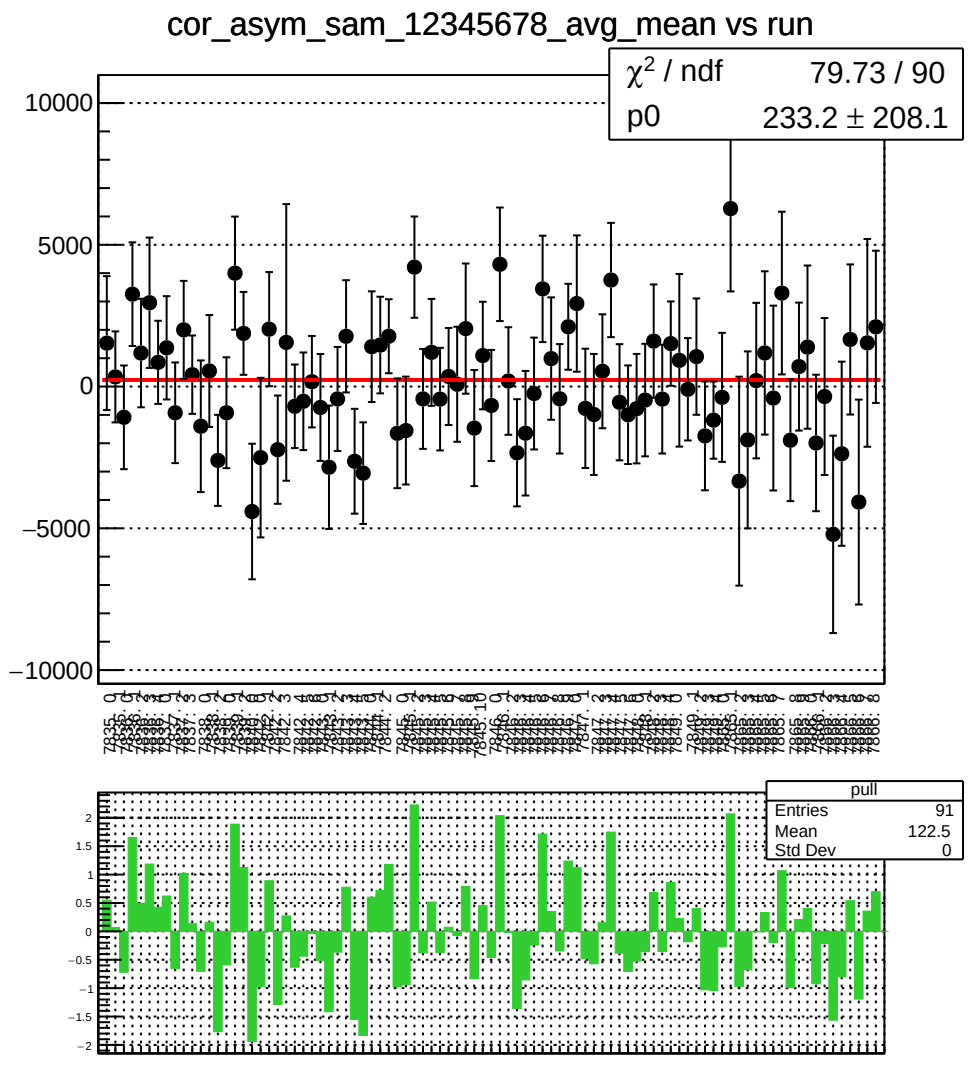

pull1D
Entries 91
Mean −0.01835
Std Dev 0.9358
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

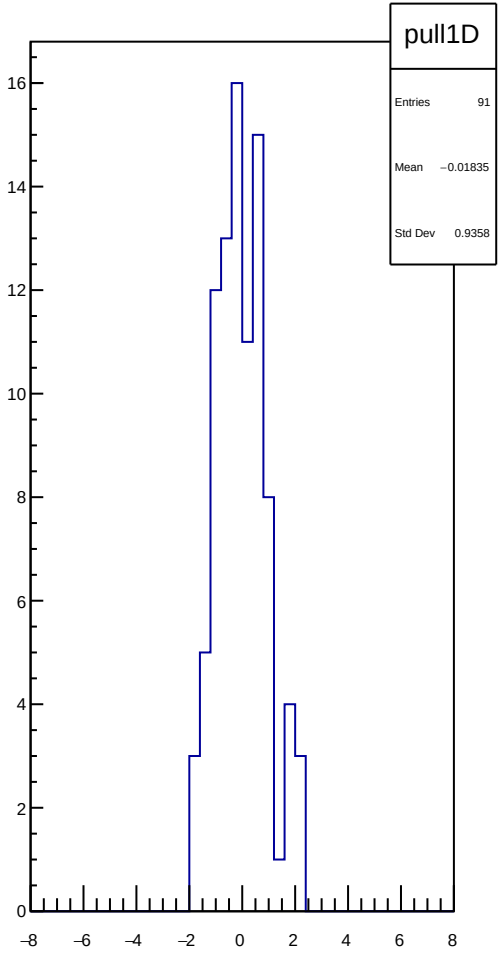

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.112e+04 / 90
p0 191.5 ± 0.1471
450
400
350
300
250
200
150

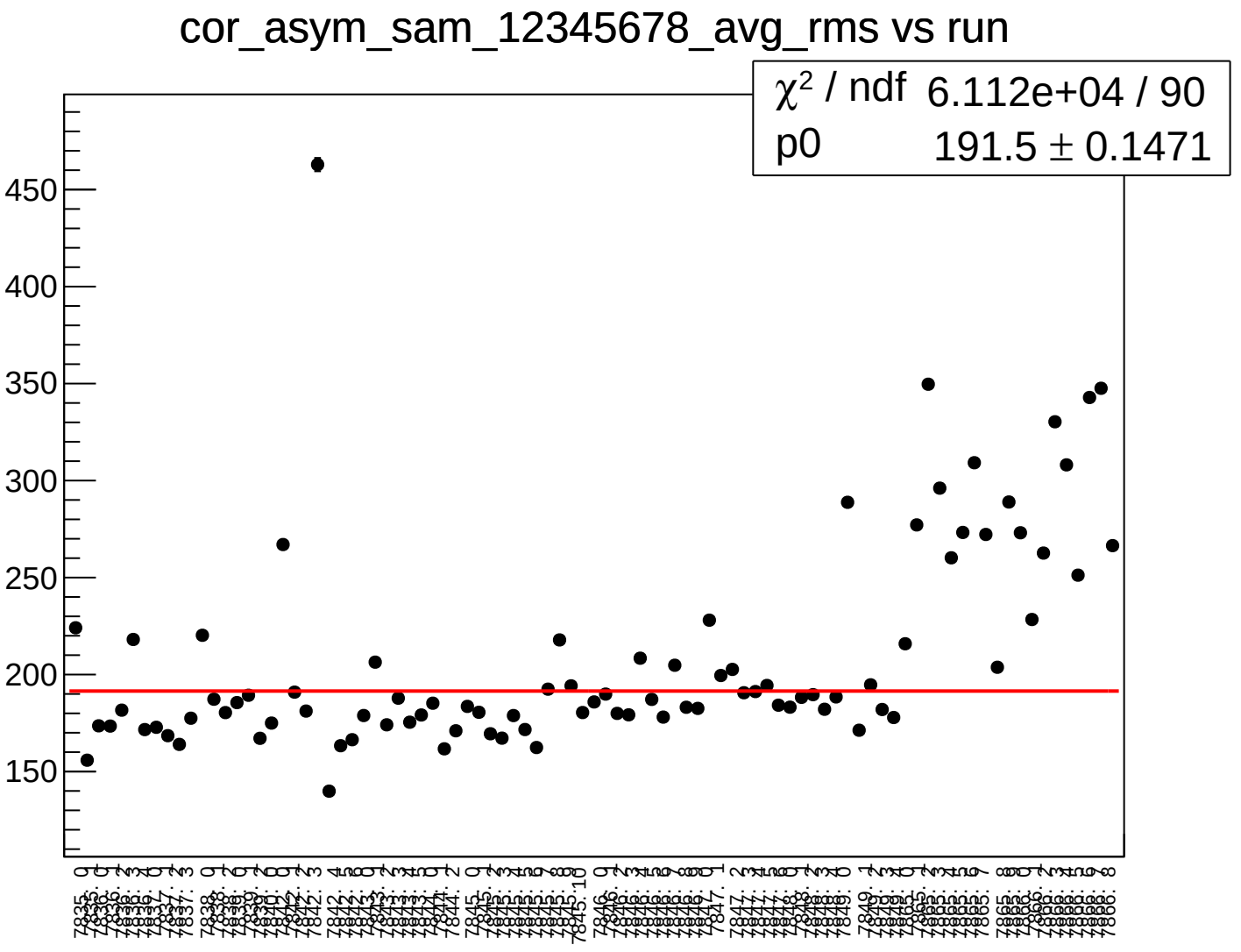

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 79.4 / 90
p0 −390.7 ± 1987
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 140.8
Std Dev 0
2
1
0
−1
−2

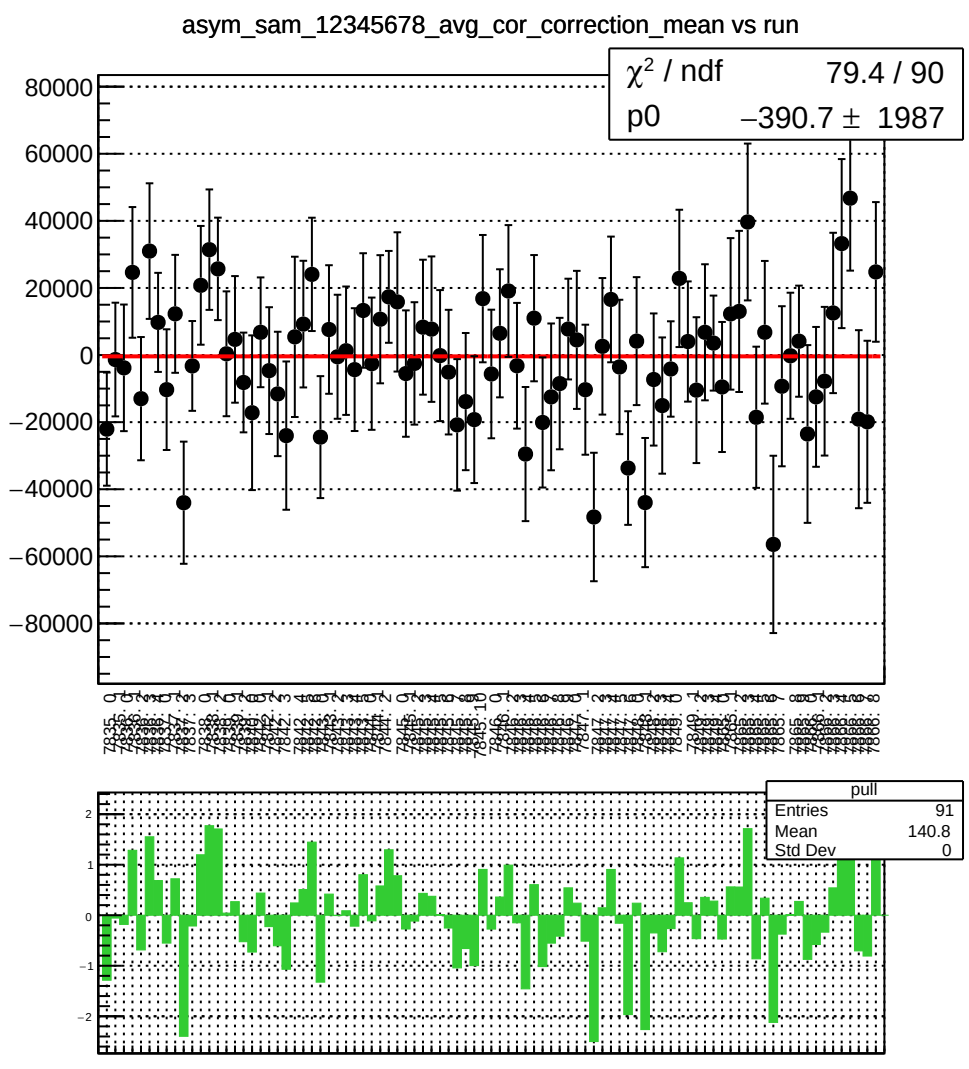

pull1D
Entries 91
Mean −0.01523
Std Dev 0.9339
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

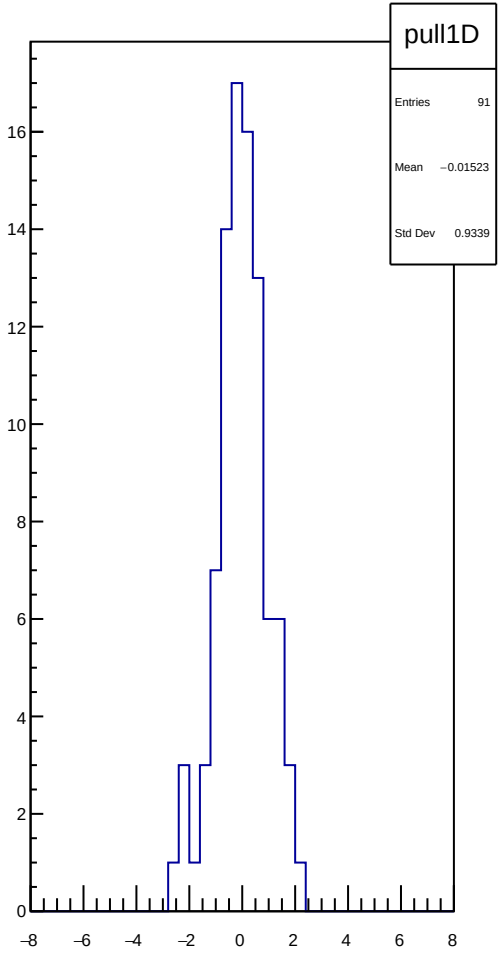

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.548e+04 / 90
p0 1853 ± 1.405
2600
2400
2200
2000
1800
1600

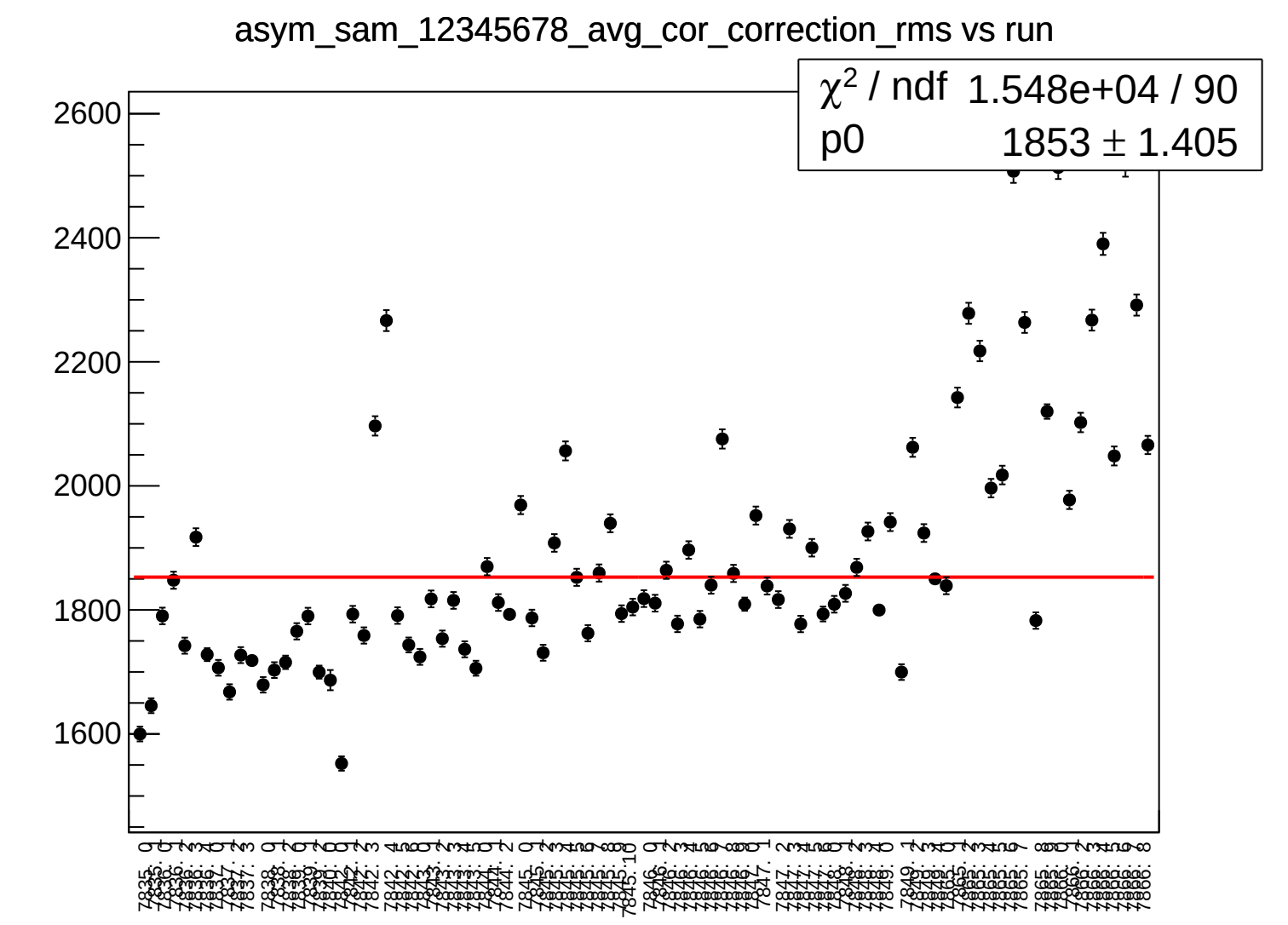

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.73 / 90
p0 233.2 ± 208.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 122.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

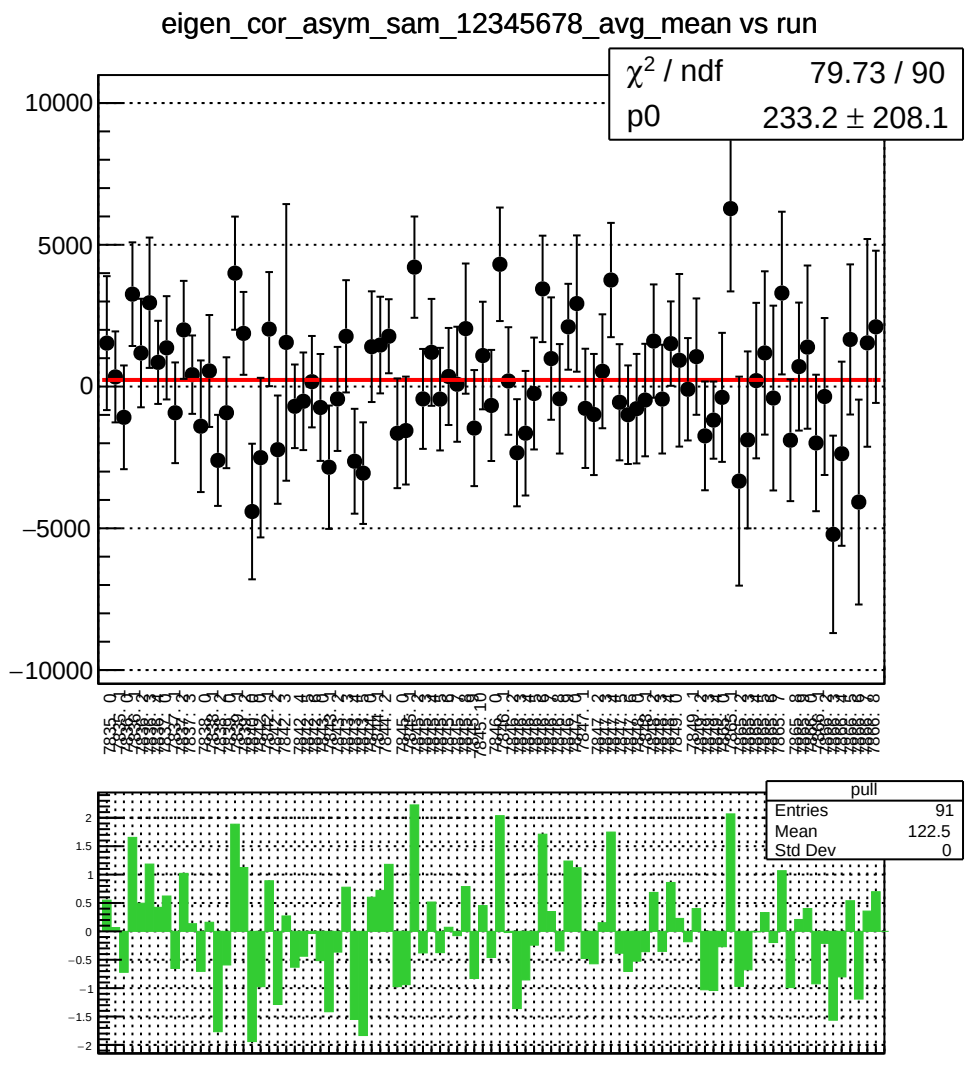

pull1D
Entries 91
Mean −0.01835
Std Dev 0.9358
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

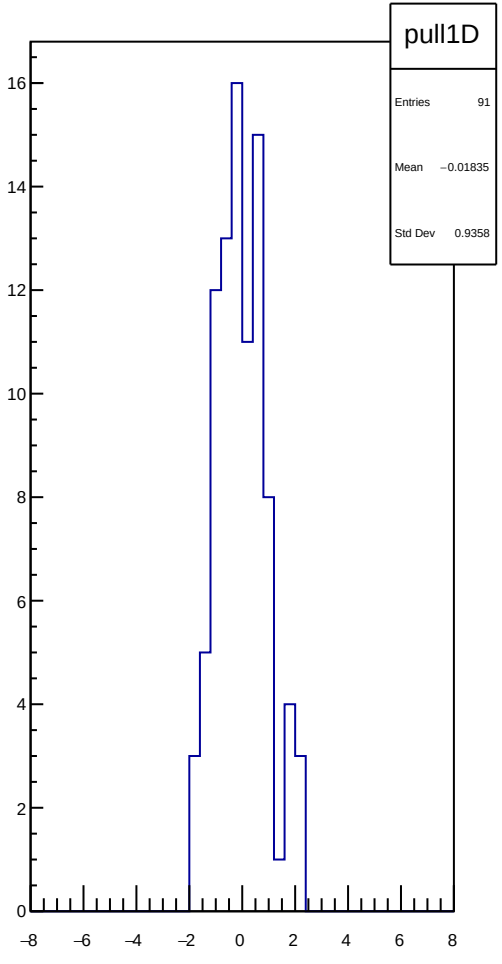

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.112e+04 / 90
p0 191.5 ± 0.1471
450
400
350
300
250
200
150

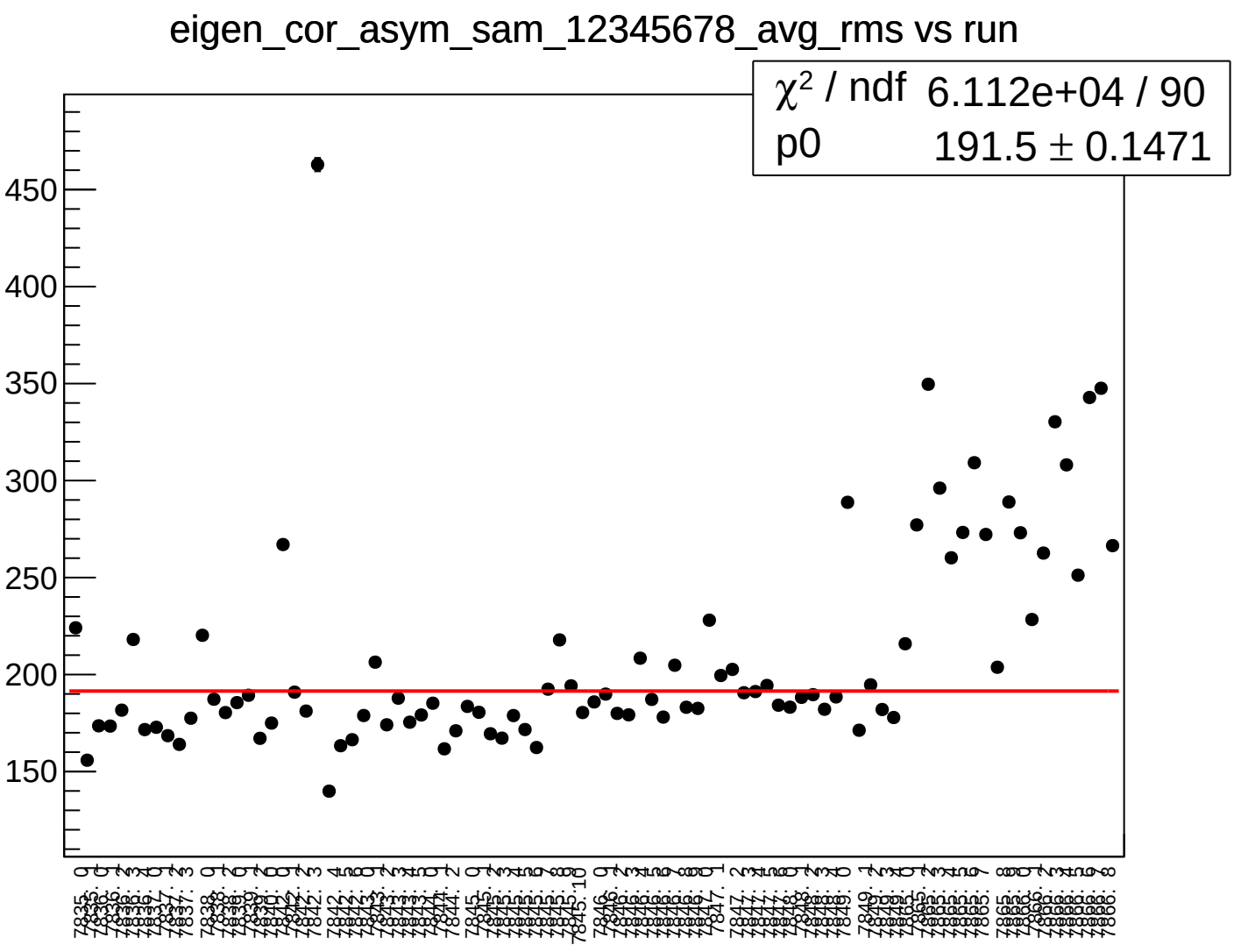

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 79.4 / 90
p0 −390.7 ± 1987
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 140.8
Std Dev 0
2
1
0
−1
−2

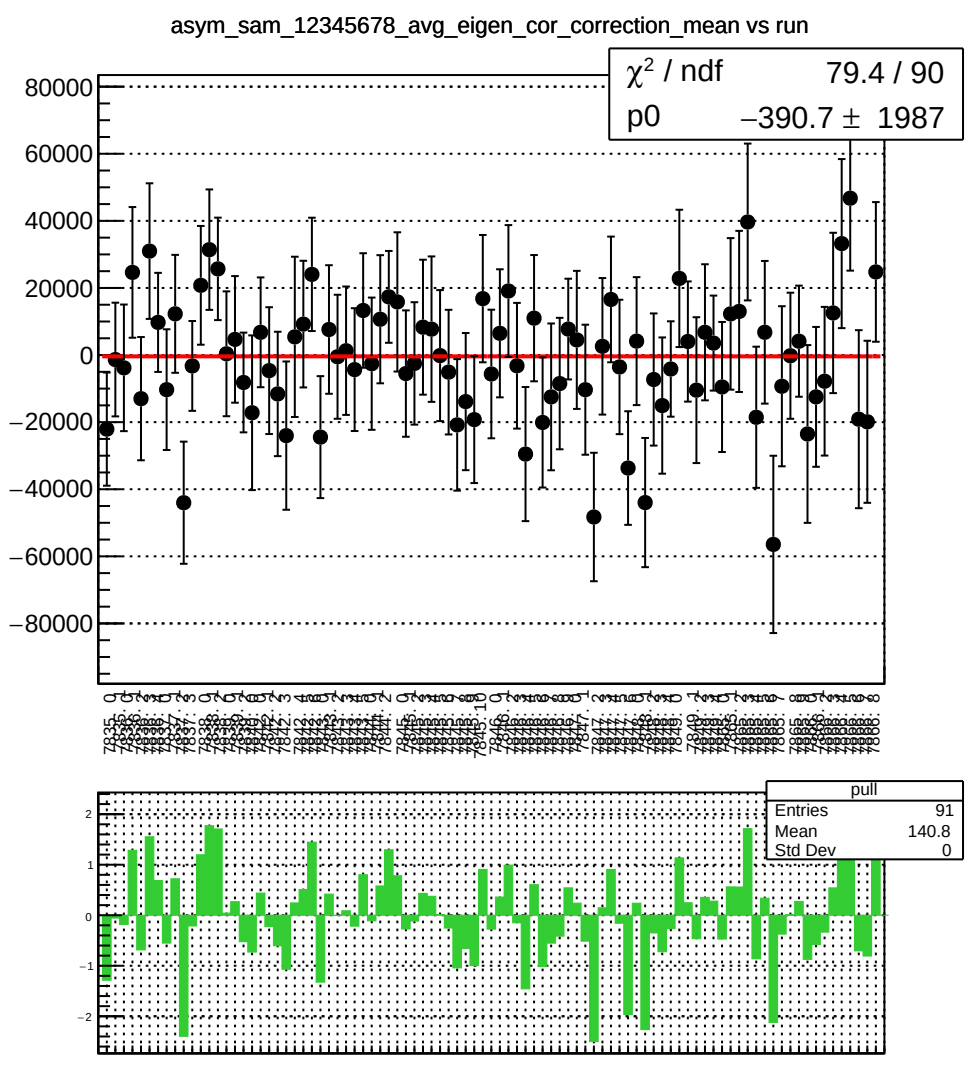

pull1D
Entries 91
Mean −0.01523
Std Dev 0.9339
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

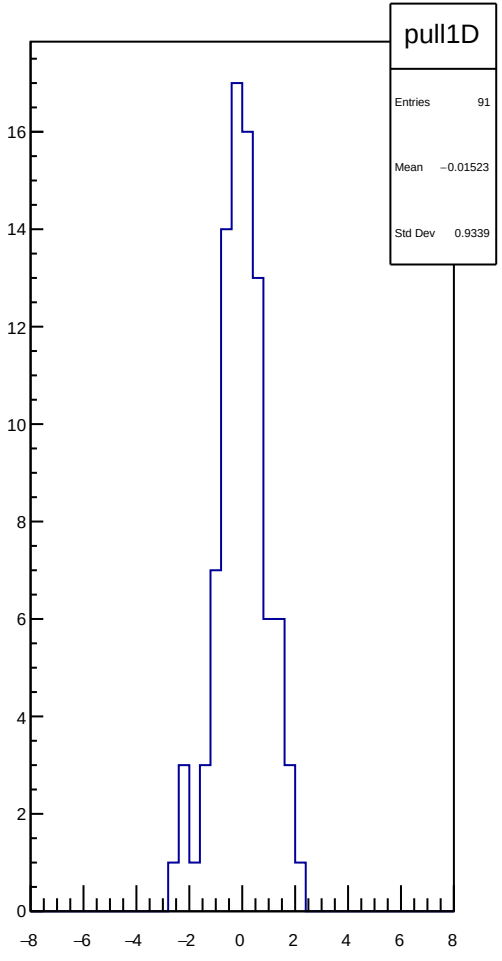

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.548e+04 / 90
p0 1853 ± 1.405
2600
2400
2200
2000
1800
1600

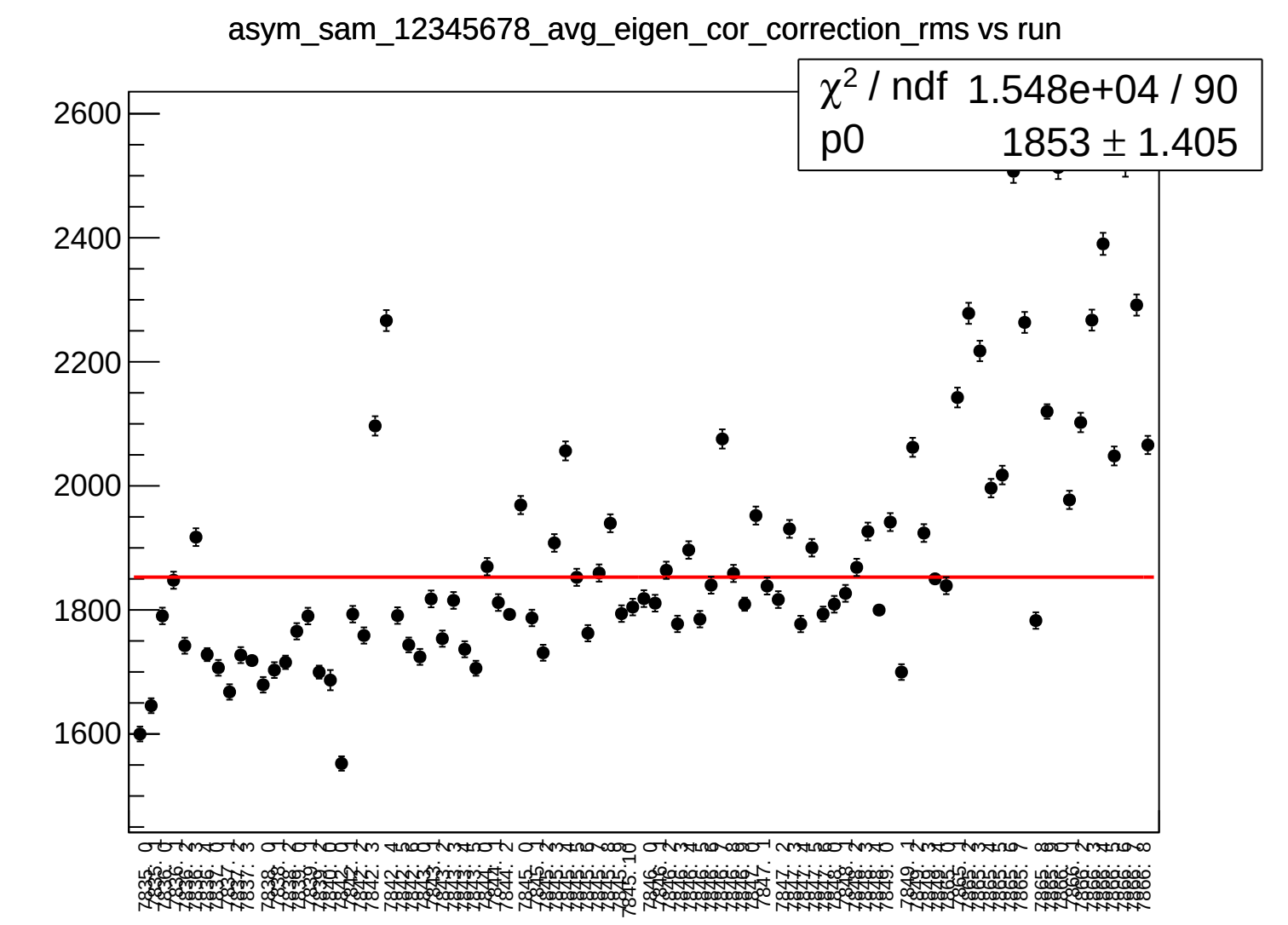

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.73 / 90
p0 233.2 ± 208.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 122.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

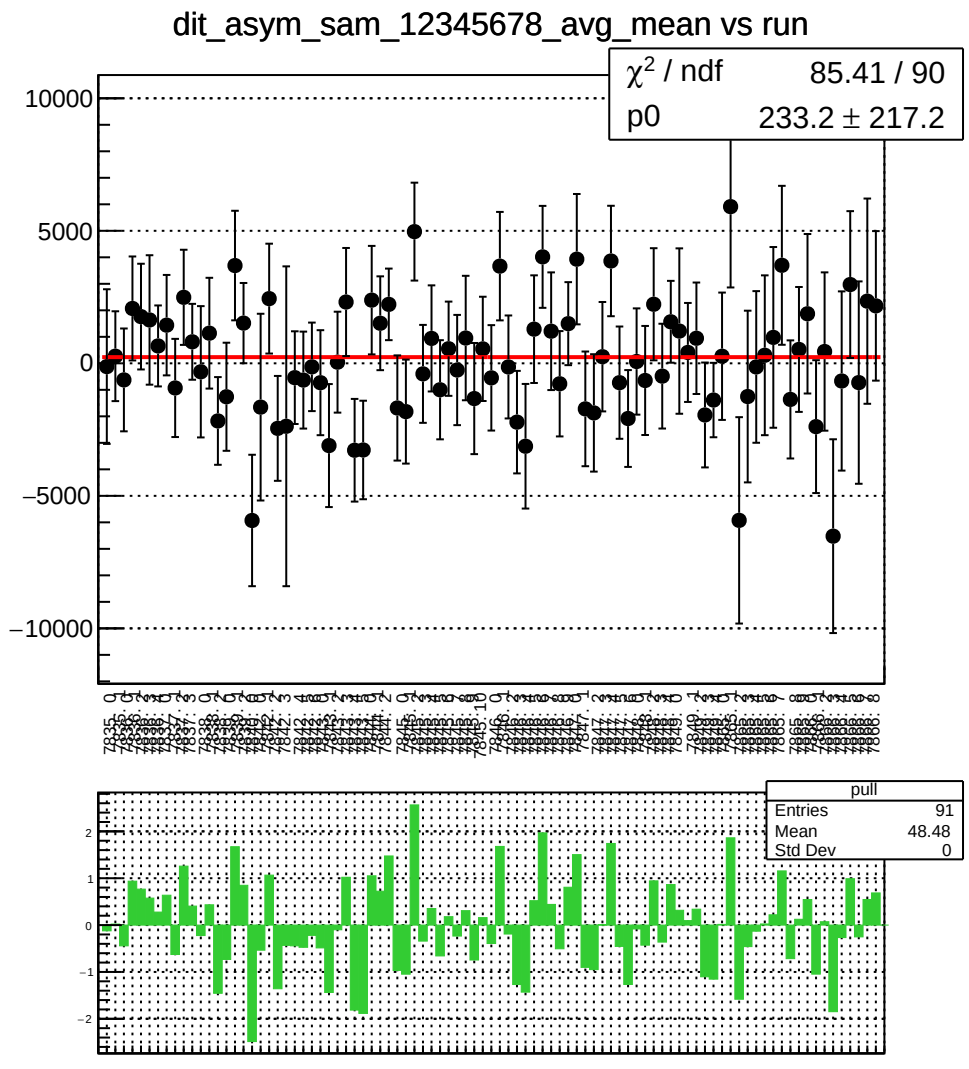

pull1D
Entries 91
Mean −0.01835
Std Dev 0.9358
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

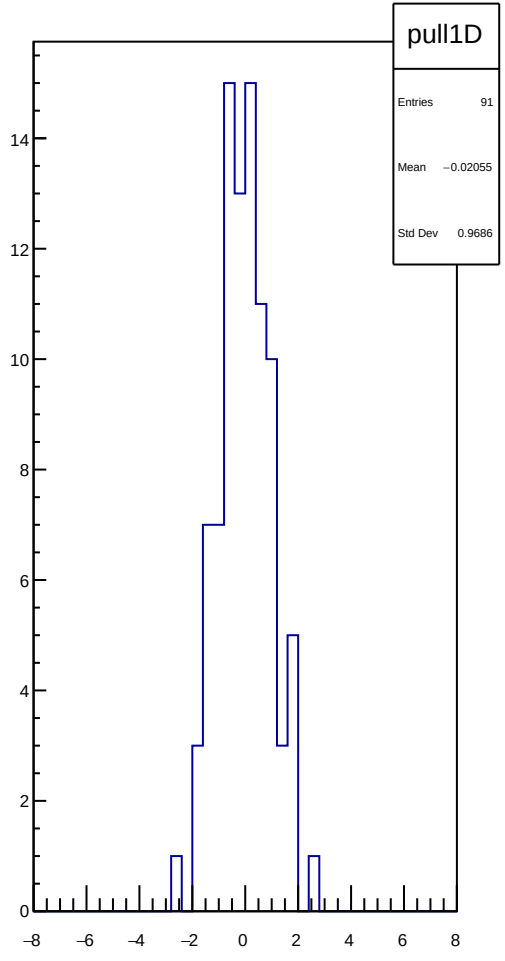

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.112e+04 / 90
p0 191.5 ± 0.1471
450
400
350
300
250
200
150

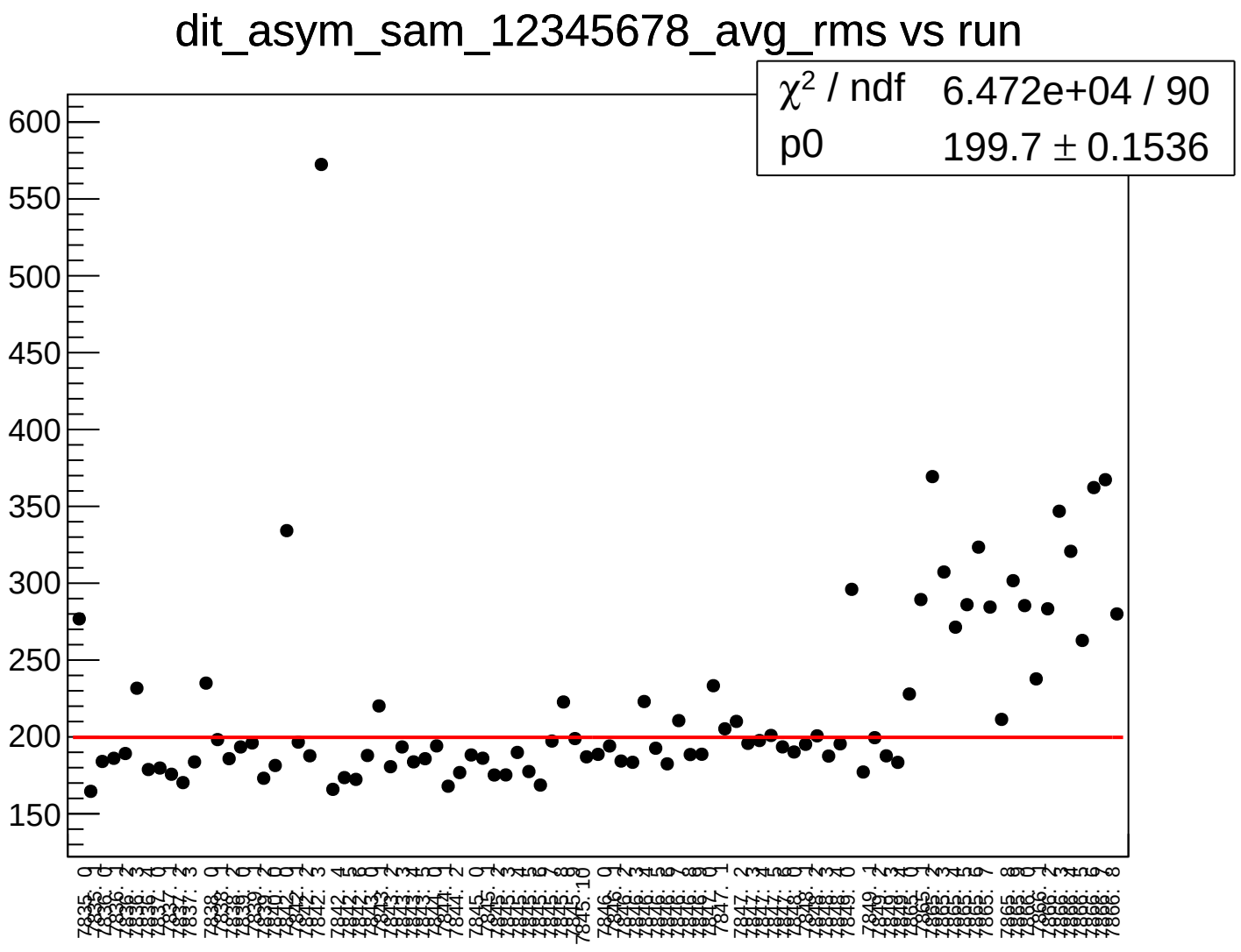

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.4 / 90
p0 −390.7 ± 1987
pull
Entries 91
Mean 140.8
Std Dev 0

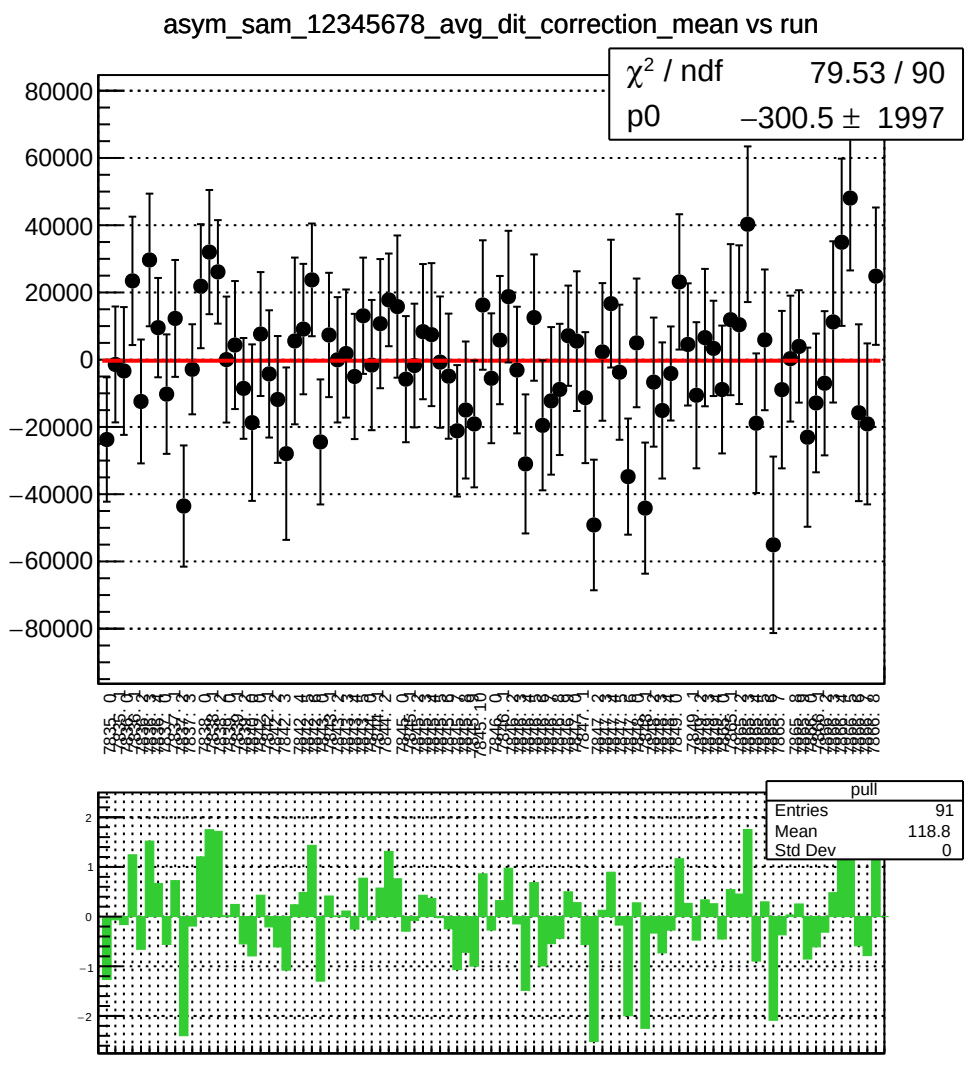

pull1D
Entries 91
Mean −0.01523
Std Dev 0.9339

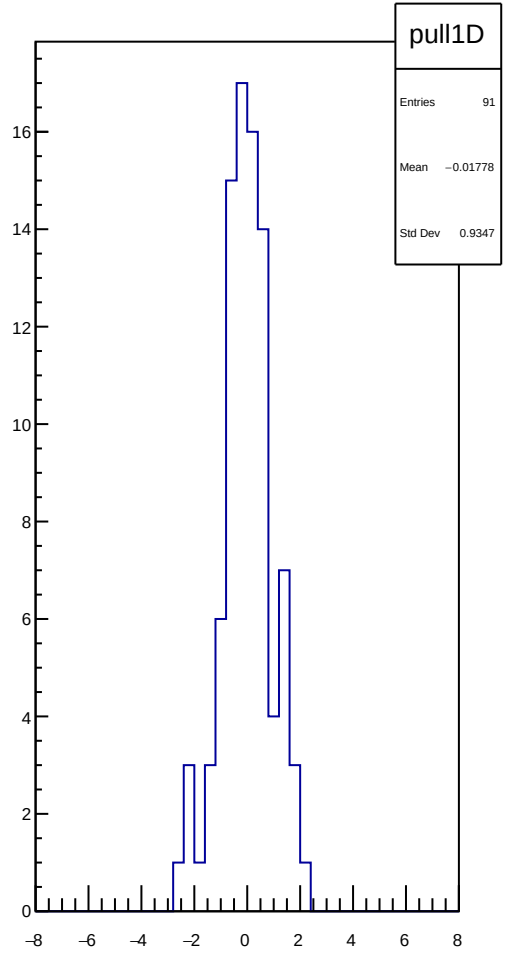

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.548e+04 / 90
p0 1853 ± 1.405
2600
2400
2200
2000
1800
1600

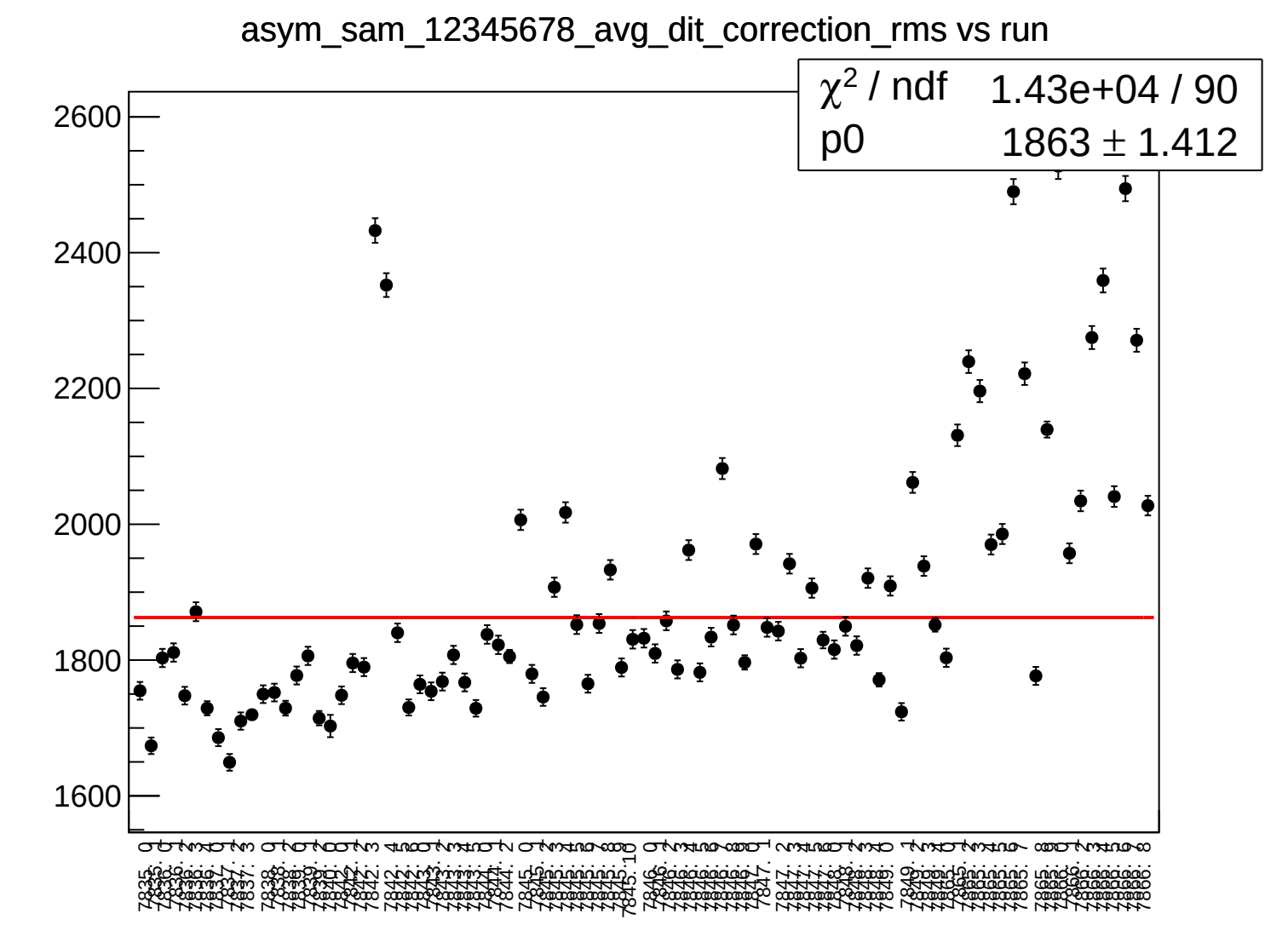

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.41 / 90
p0 233.2 ± 217.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 48.48
Std Dev 0
2
1
0
−1
−2

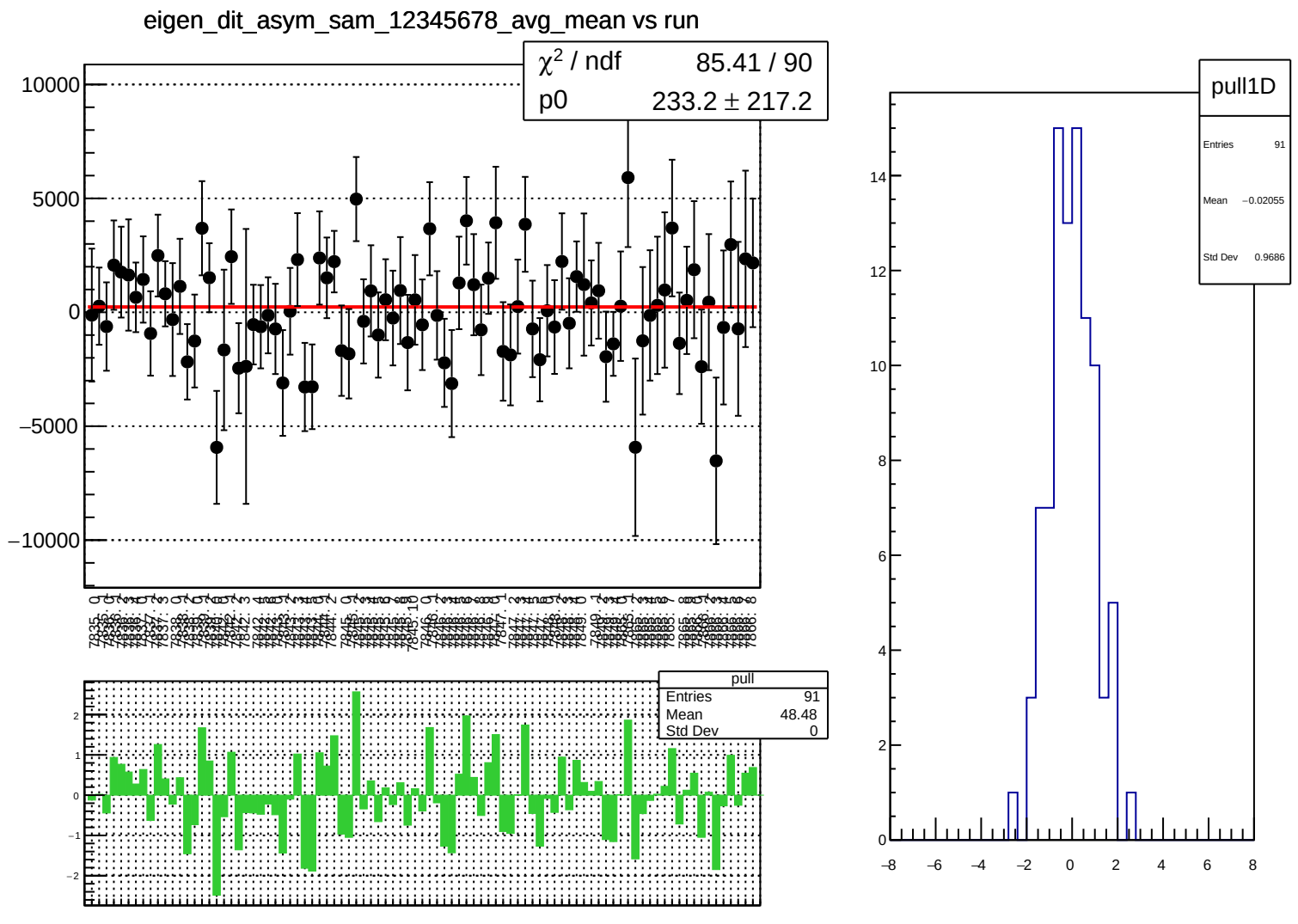

pull1D
Entries 91
Mean −0.02055
Std Dev 0.9686
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

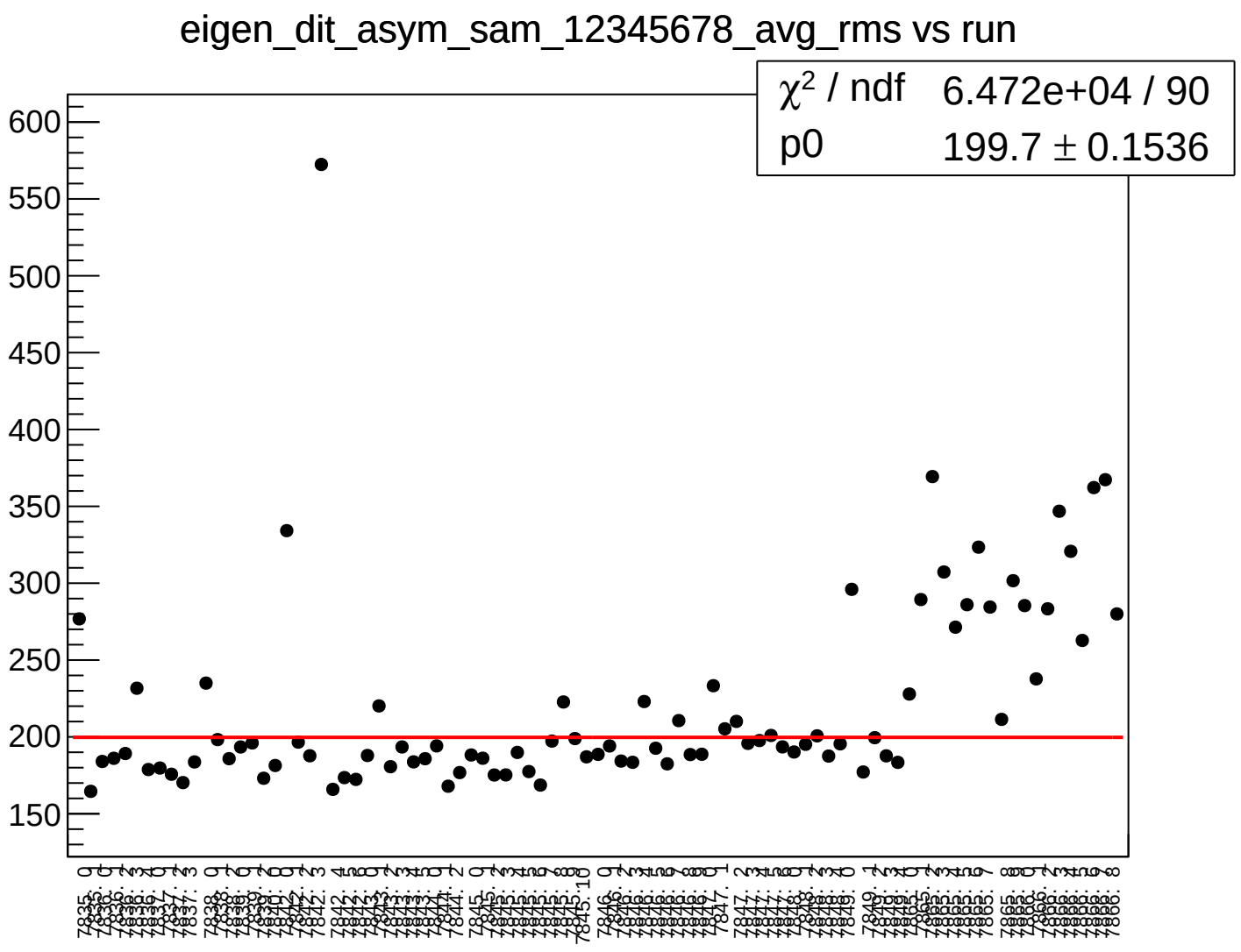

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.472e+04 / 90
p0 199.7 ± 0.1536
600
550
500
450
400
350
300
250
200
150

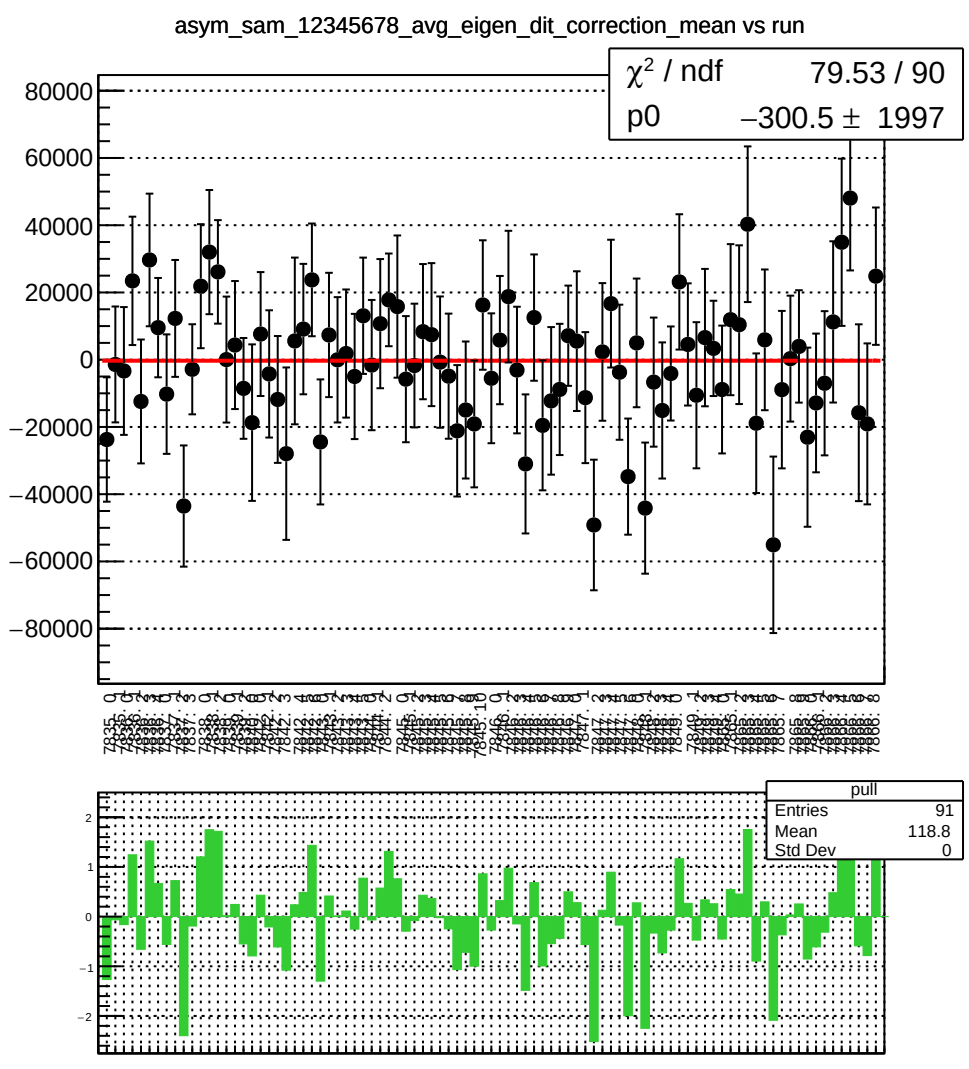

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 79.53 / 90
p0 −300.5 ± 1997
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 118.8
Std Dev 0
2
1
0
−1
−2

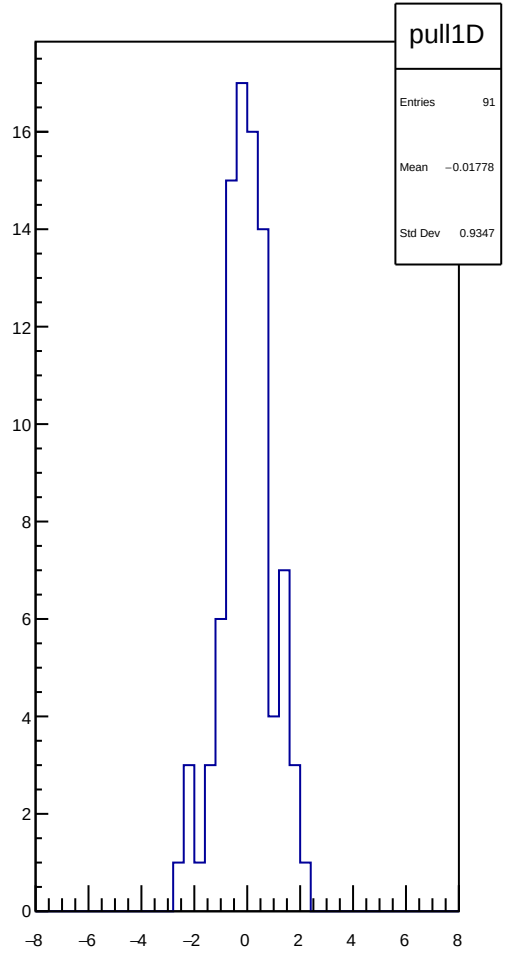

pull1D
Entries 91
Mean −0.01778
Std Dev 0.9347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

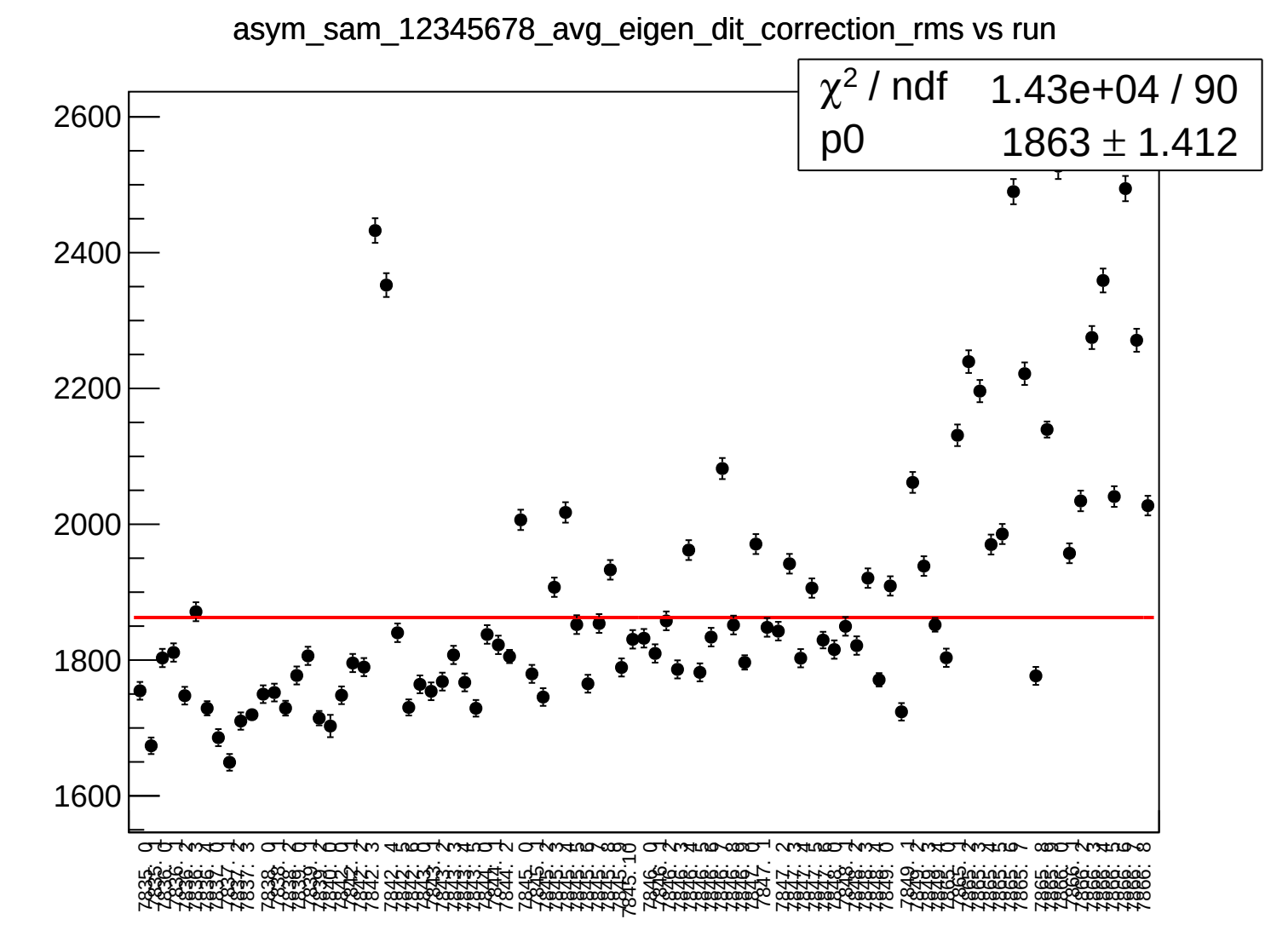

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 90
p0 1863 ± 1.412
2600
2400
2200
2000
1800
1600

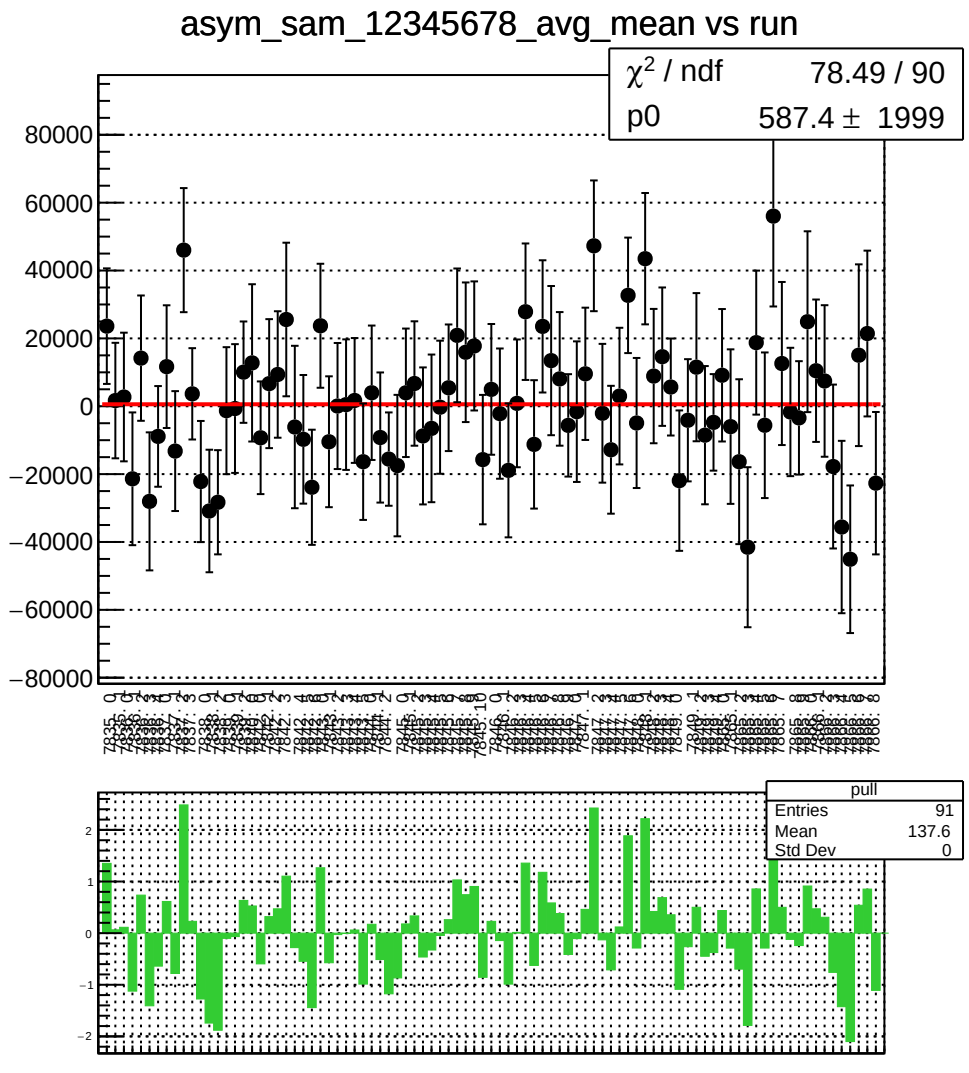

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.41 / 90
p0 233.2 ± 217.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 48.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02055
Std Dev 0.9686
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

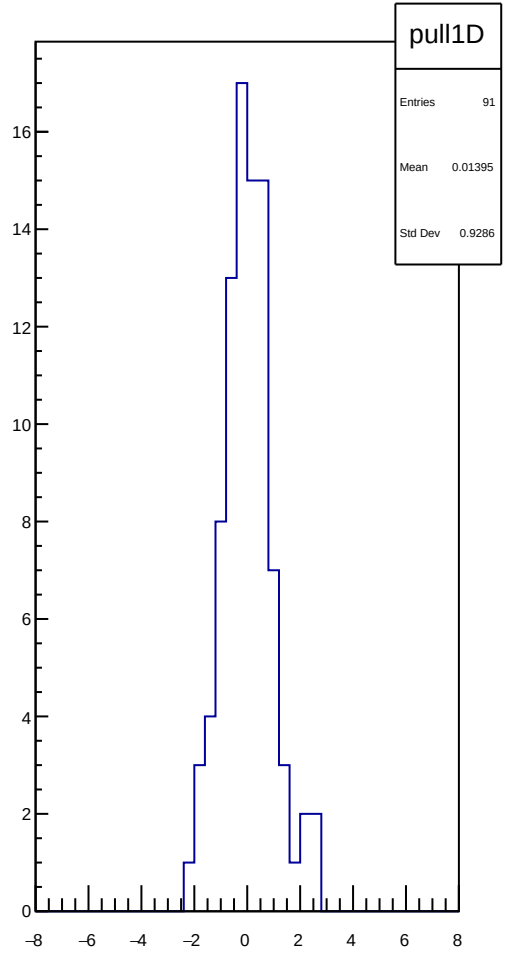

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.472e+04 / 90
p0 199.7 ± 0.1536
600
550
500
450
400
350
300
250
200
150

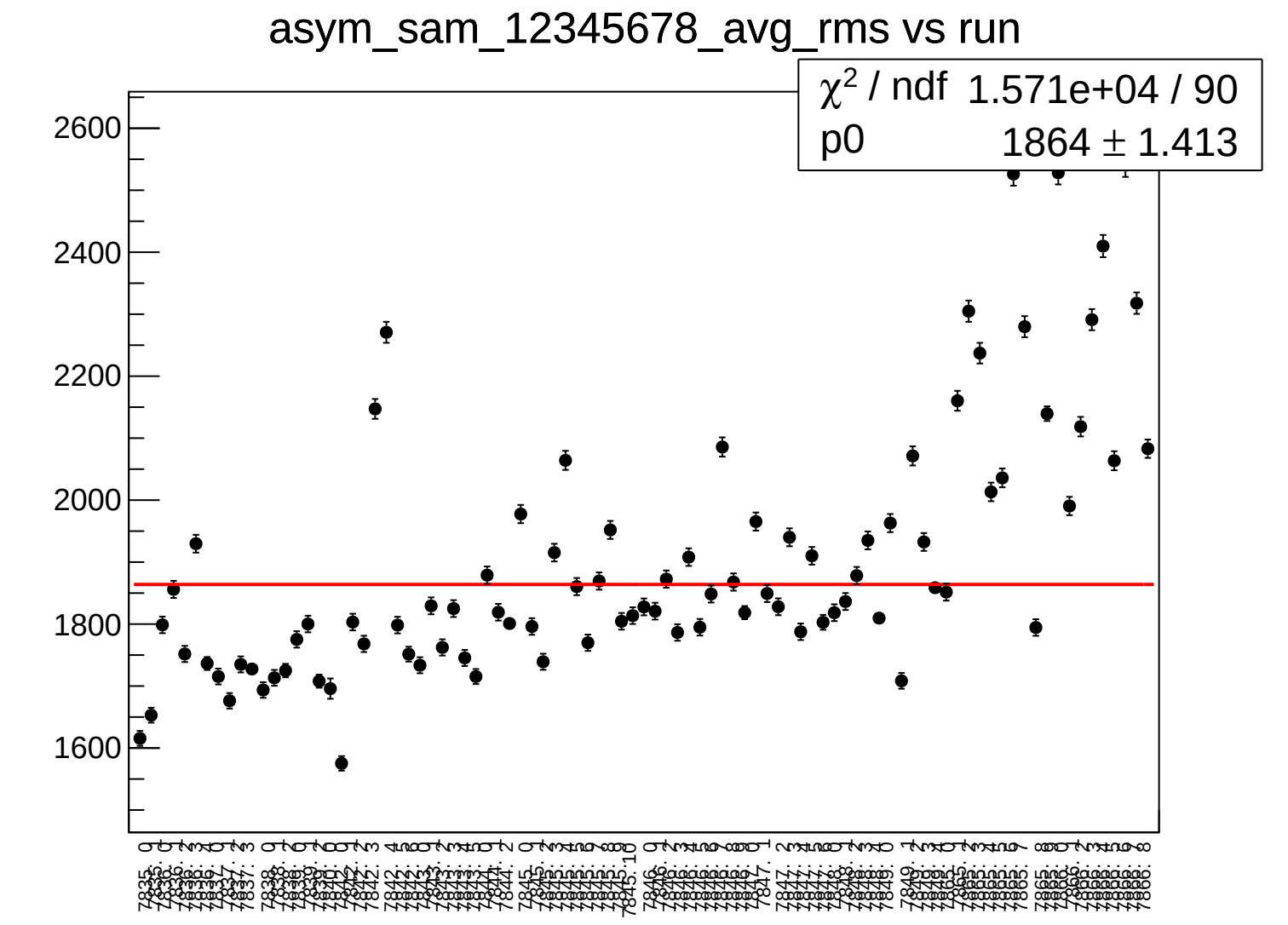

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.53 / 90
p0 −300.5 ± 1997
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 118.8
Std Dev 0
2
1
0
−1
−2

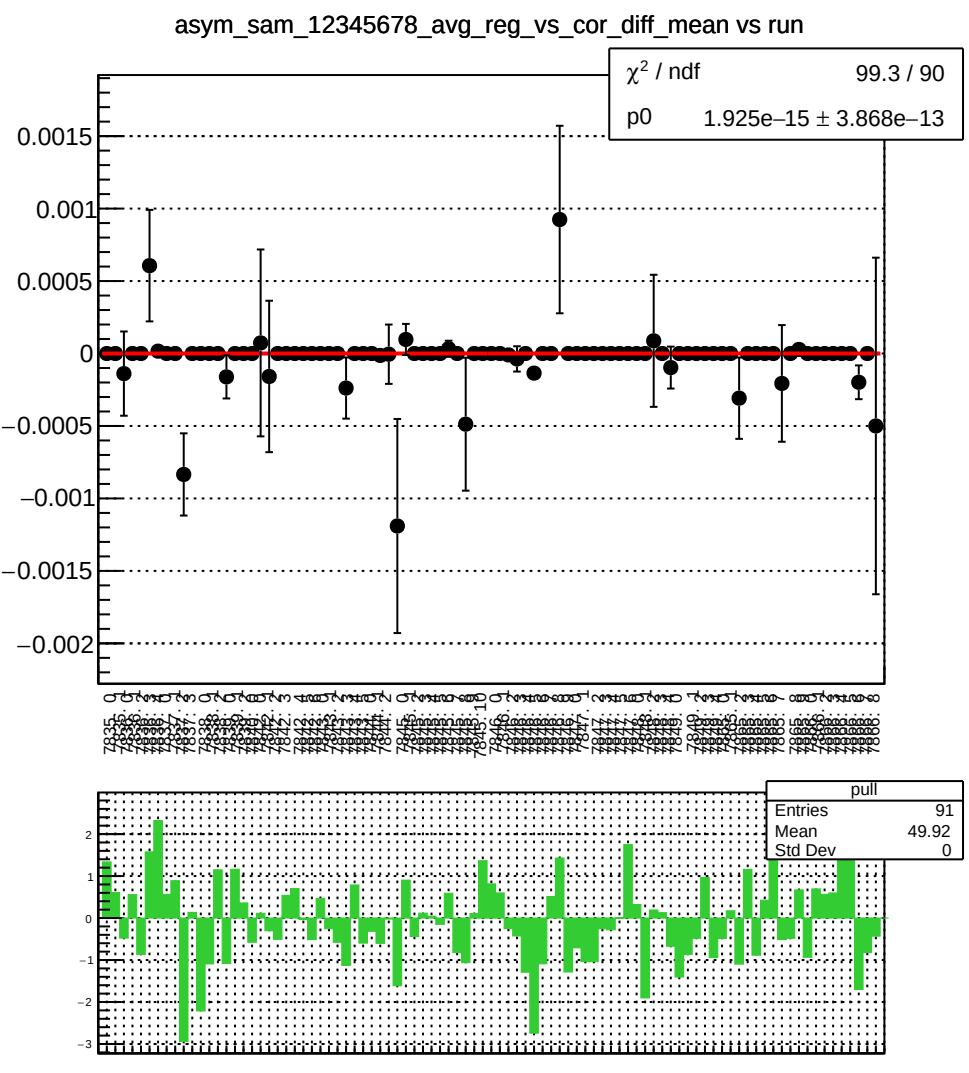

pull1D
Entries 91
Mean −0.01778
Std Dev 0.9347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

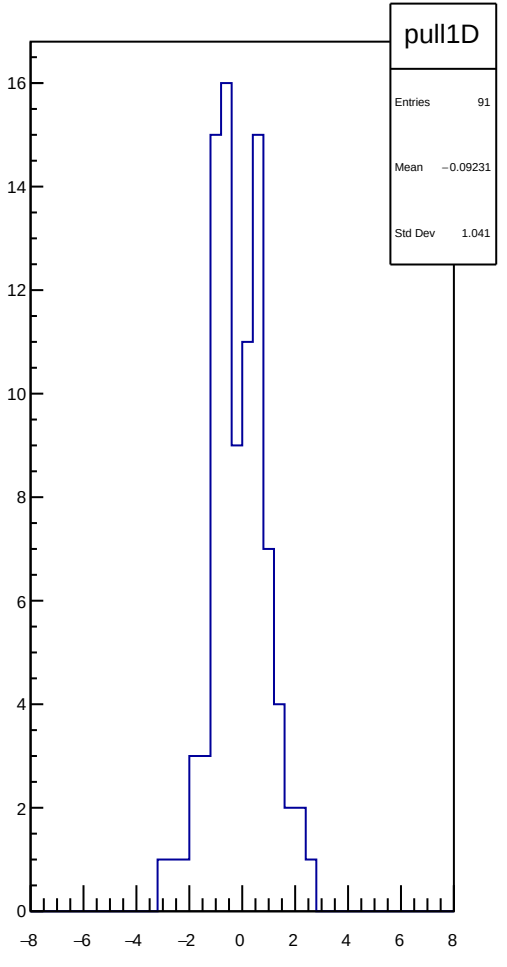

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 90
p0 1863 ± 1.412
2600
2400
2200
2000
1800
1600

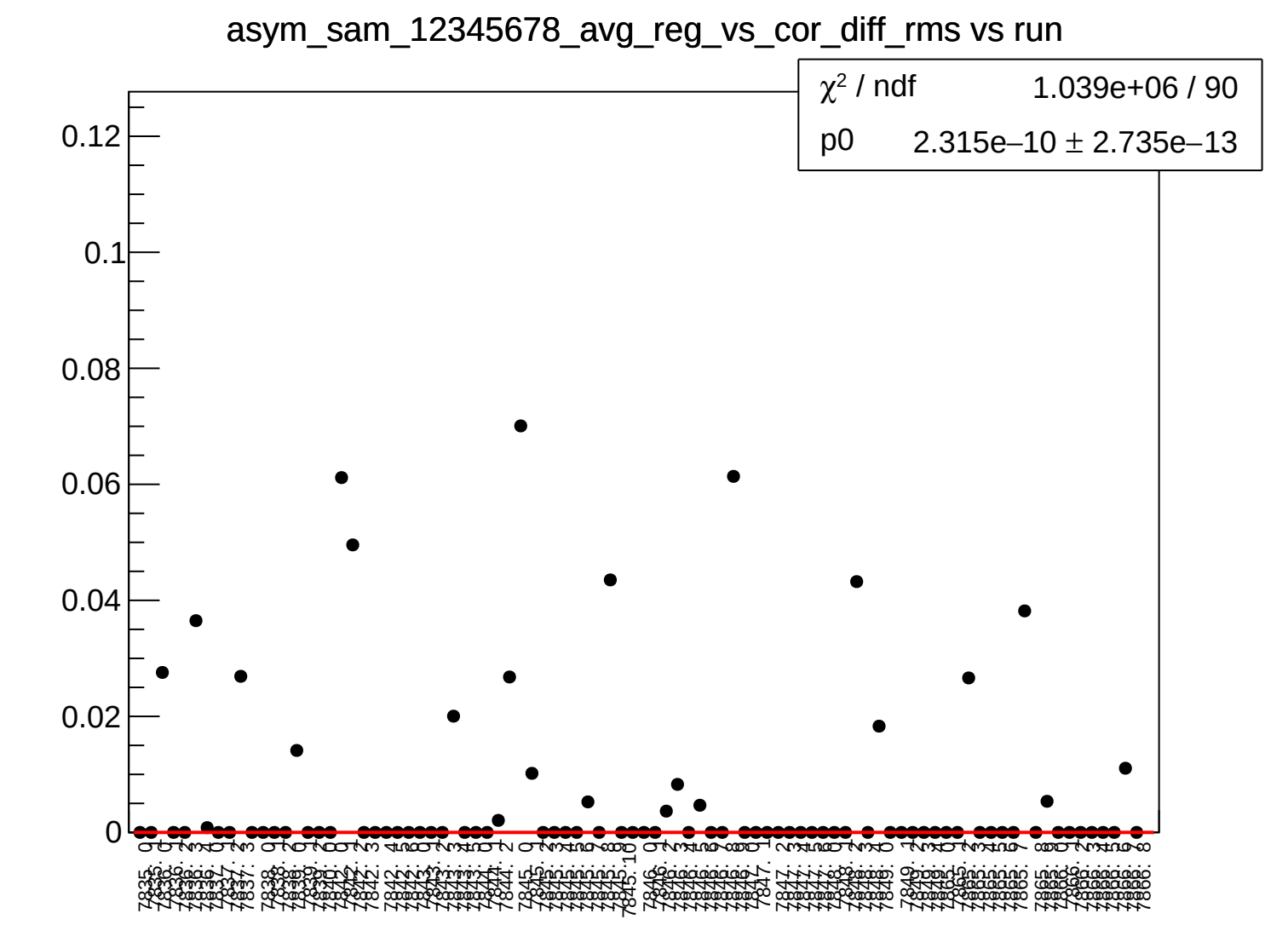

asym_sam_12345678_avg_mean vs run
χ² / ndf 78.49 / 90
p0 587.4 ± 1999
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 137.6
Std Dev 0
2
1
0
−1
−2

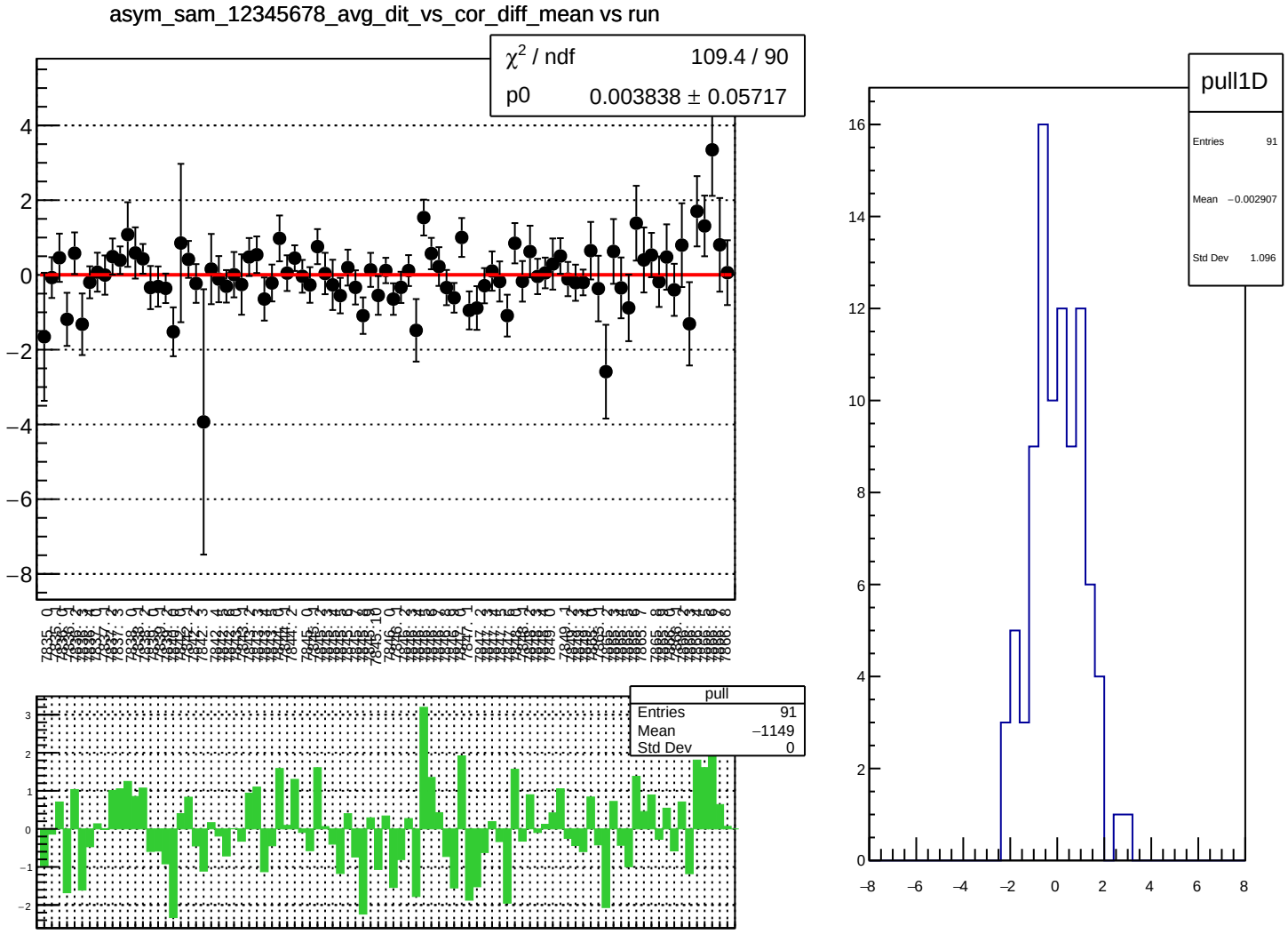

pull1D
Entries 91
Mean 0.01395
Std Dev 0.9286
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

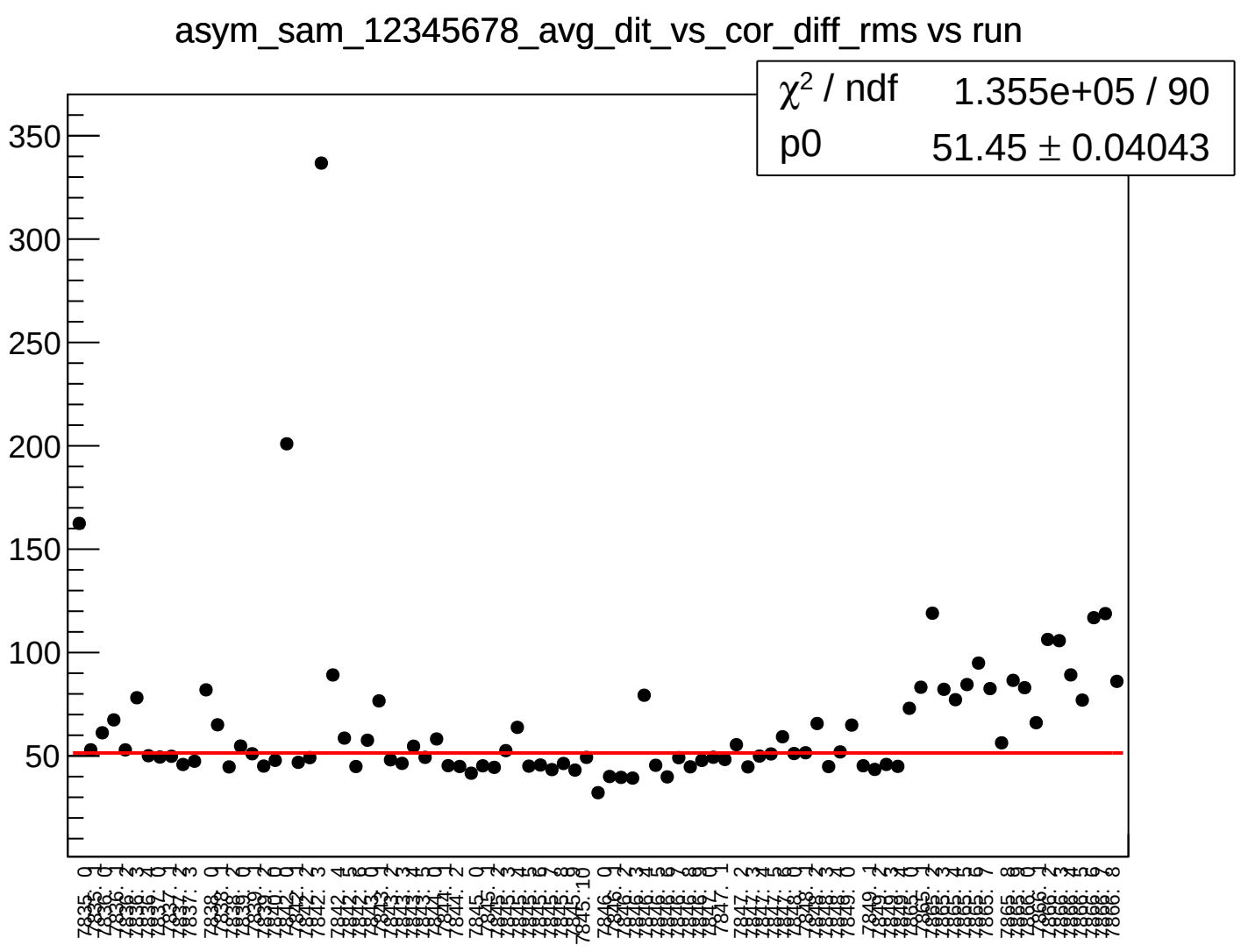

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.571e+04 / 90
p0 1864 ± 1.413
2600
2400
2200
2000
1800
1600

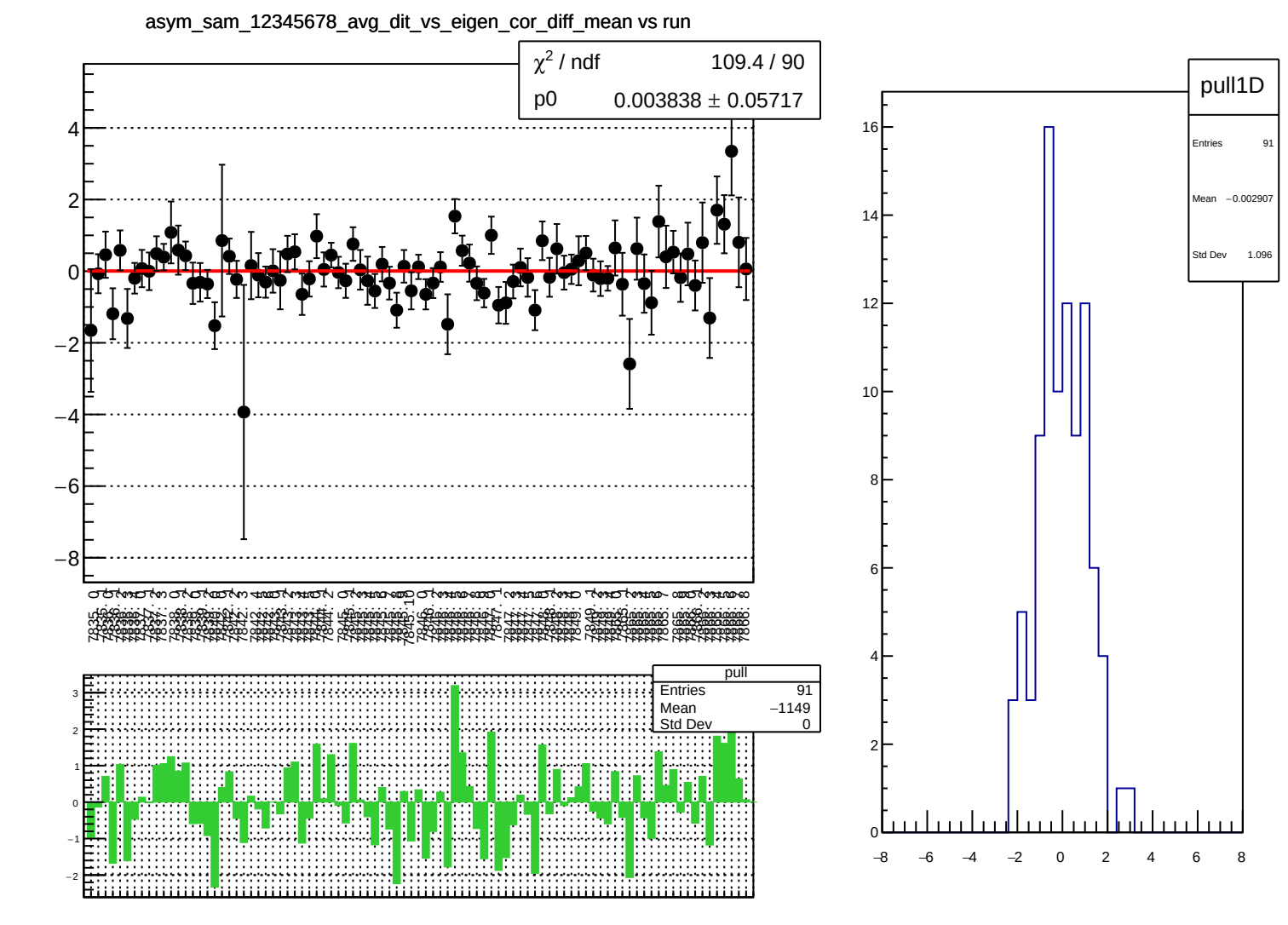

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.3 / 90
p0 1.925e−15 ± 3.868e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 49.92
Std Dev 0
2
1
0
−1
−2
−3

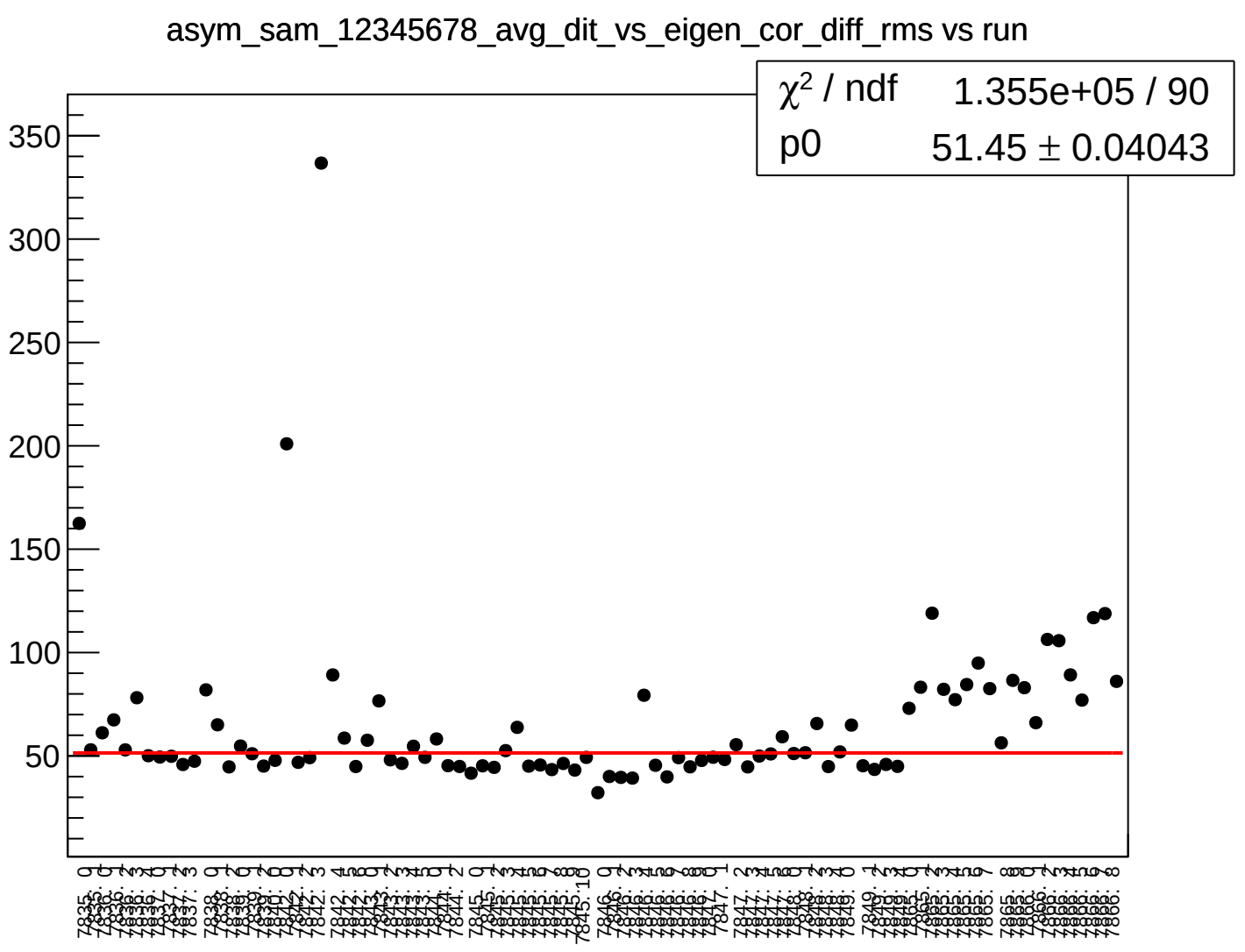

pull1D
Entries 91
Mean −0.09231
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

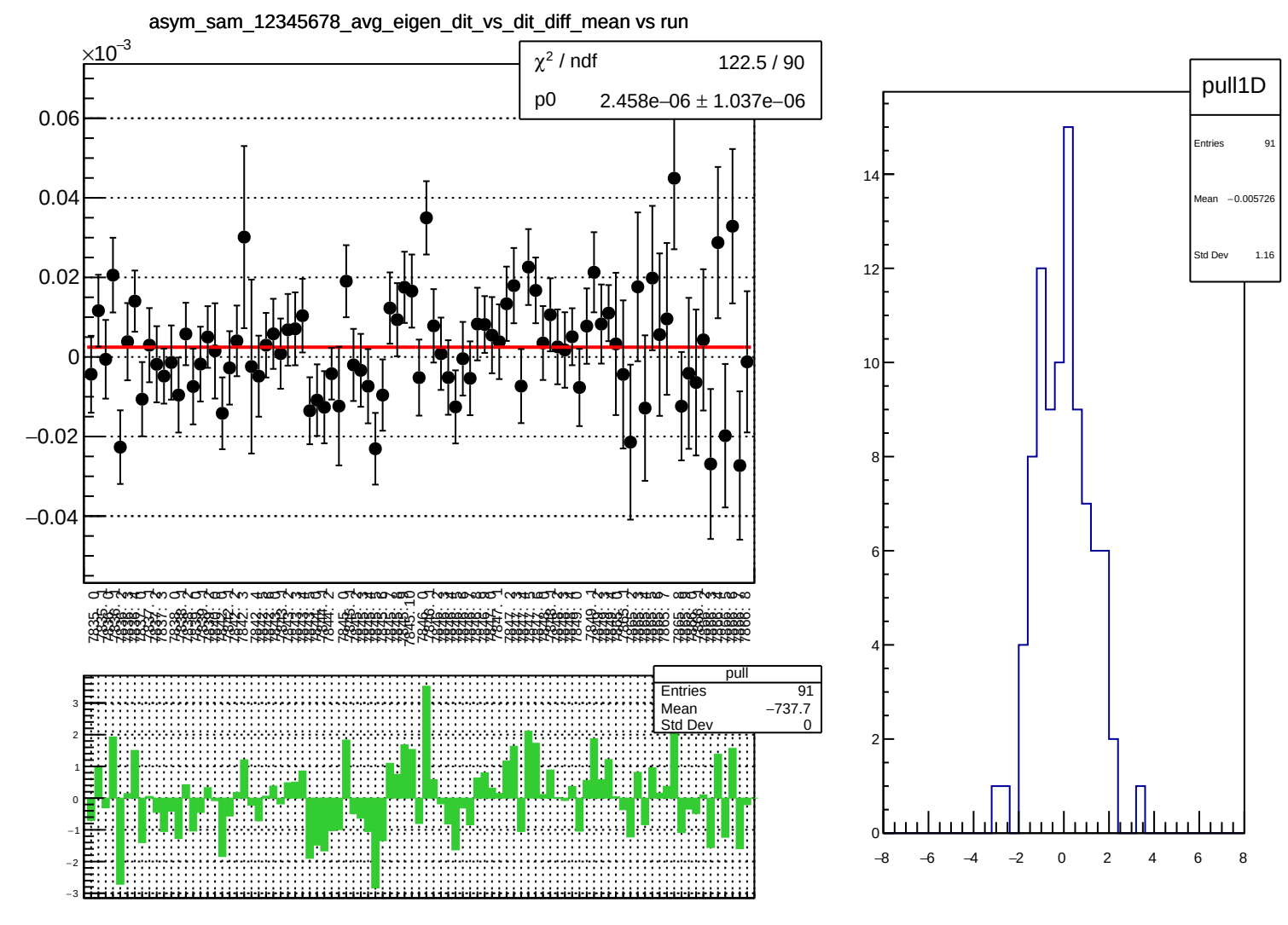

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 90
p0 2.315e−10 ± 2.735e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

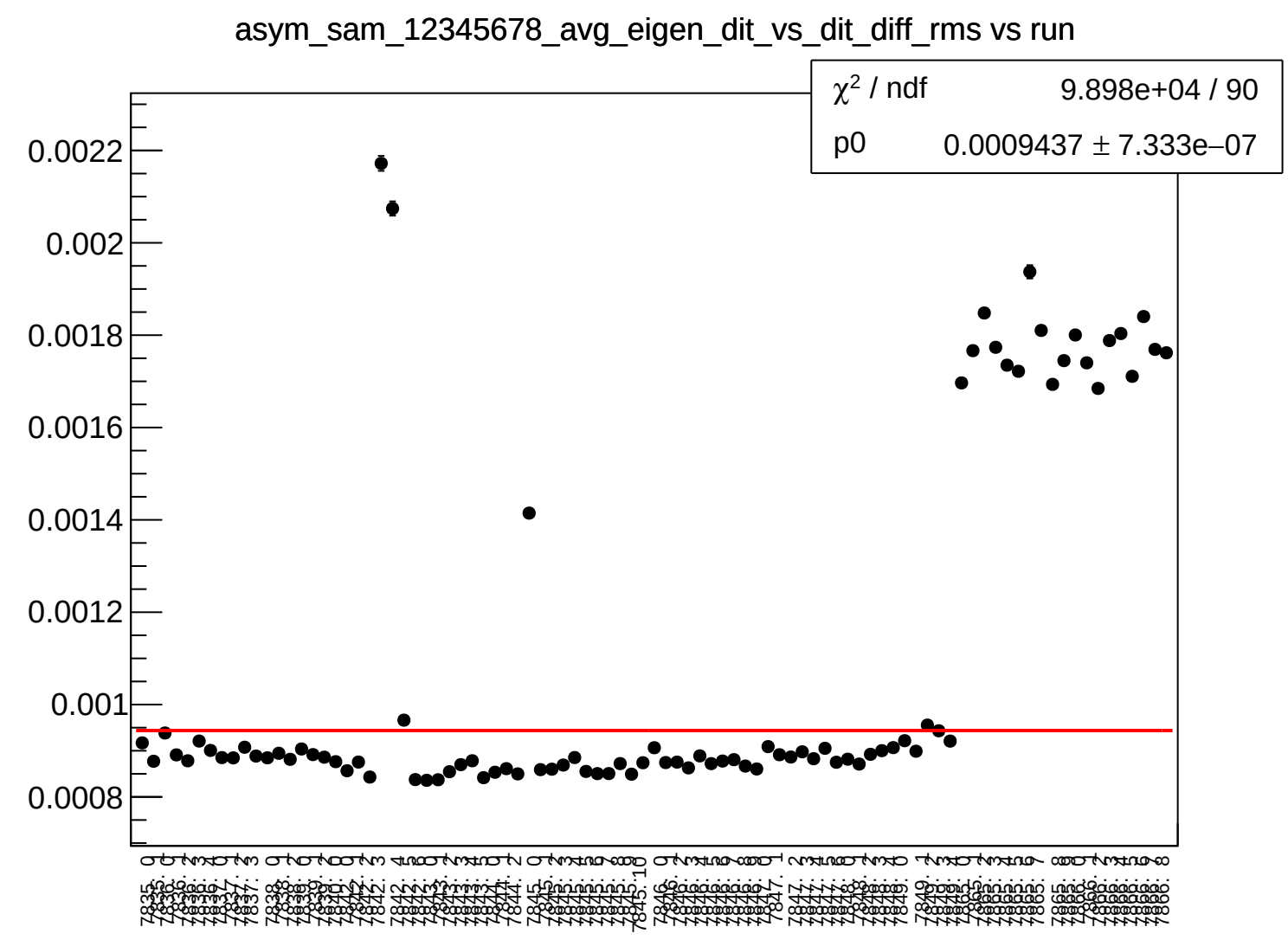

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 90
p0 0.003838 ± 0.05717
pull
Entries 91
Mean −1149
Std Dev 0
pull1D
Entries 91
Mean −0.002907
Std Dev 1.096

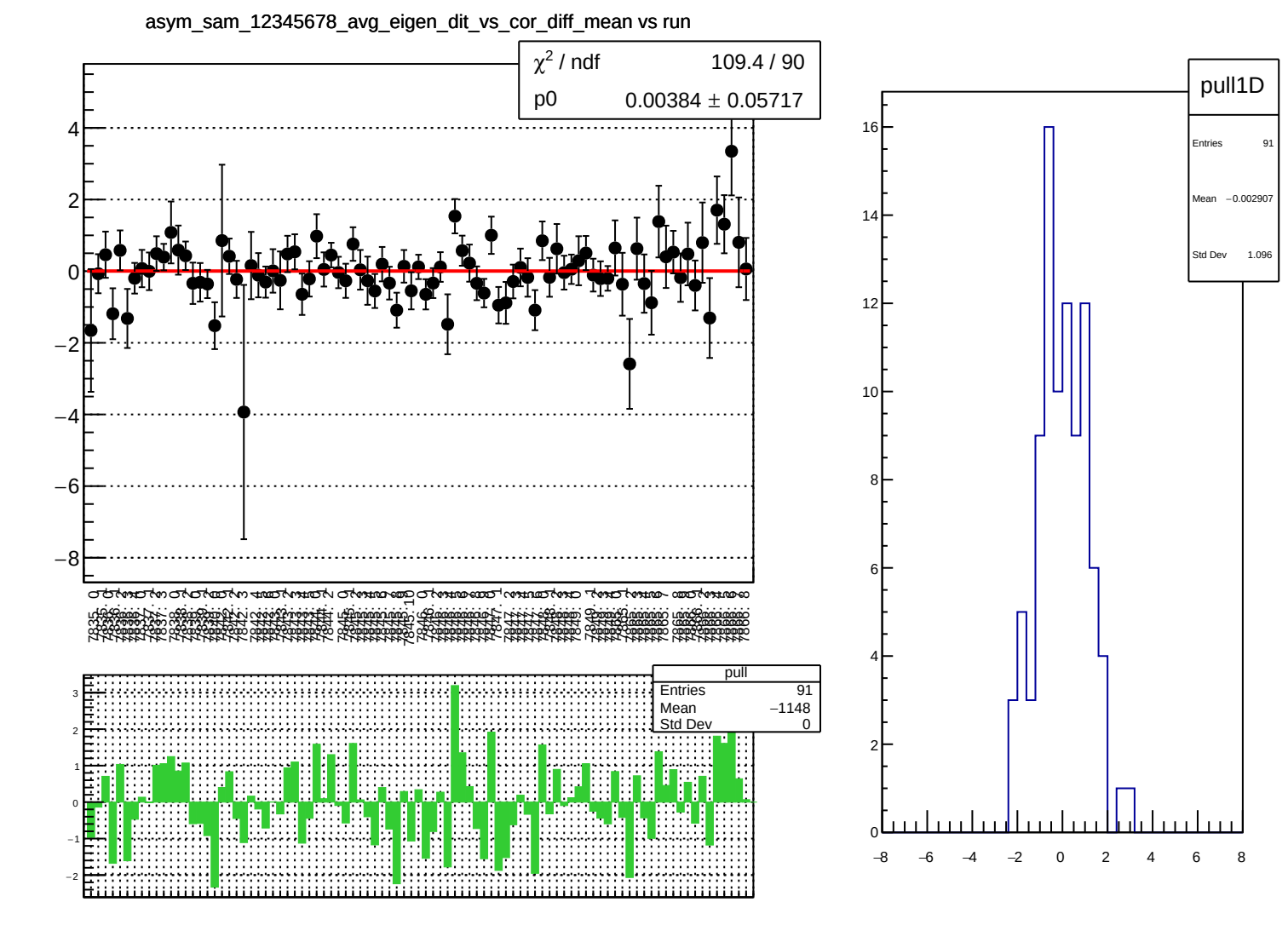

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 90
p0 51.45 ± 0.04043
350
300
250
200
150
100
50

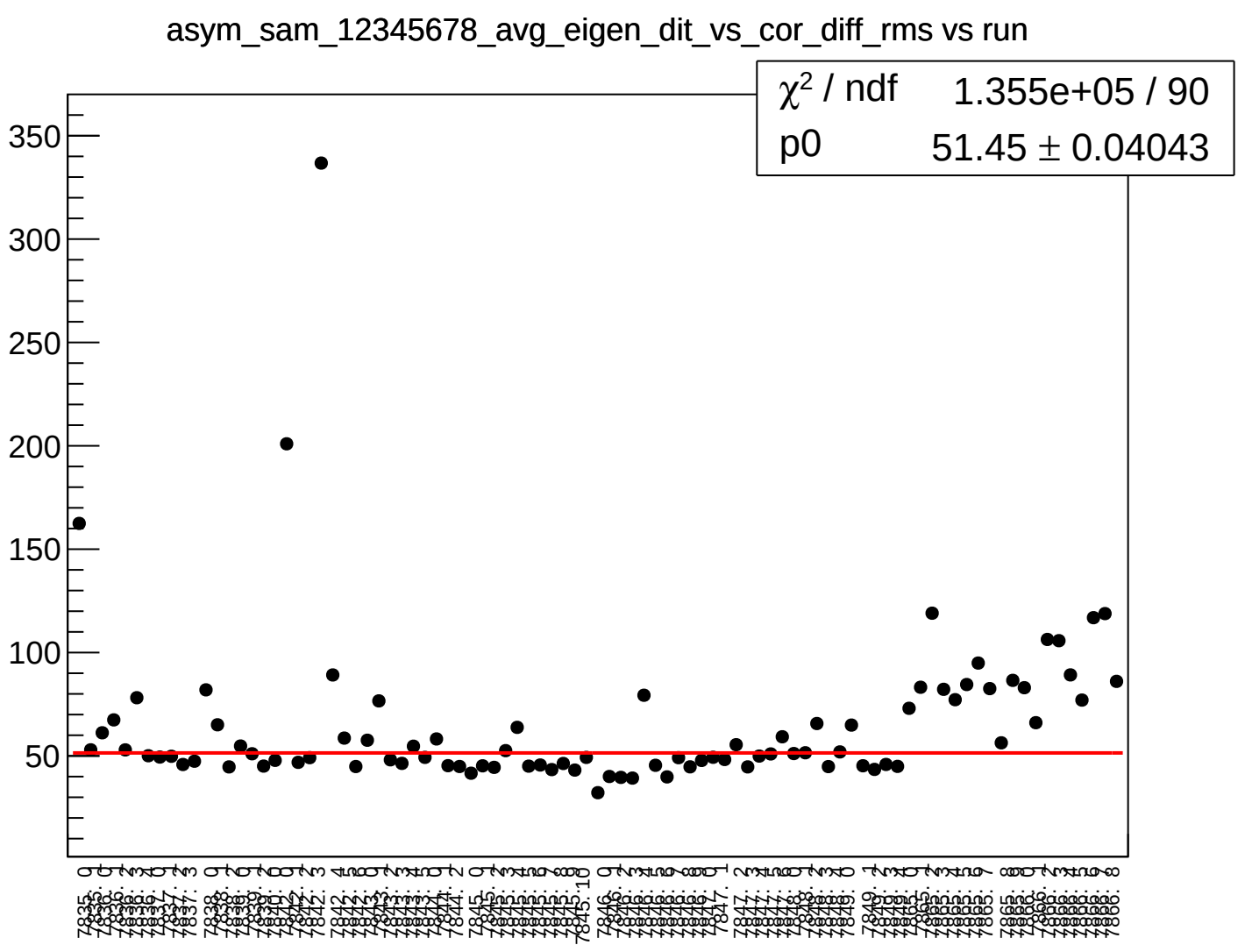

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 90
p0 0.003838 ± 0.05717
pull
Entries 91
Mean −1149
Std Dev 0
pull1D
Entries 91
Mean −0.002907
Std Dev 1.096

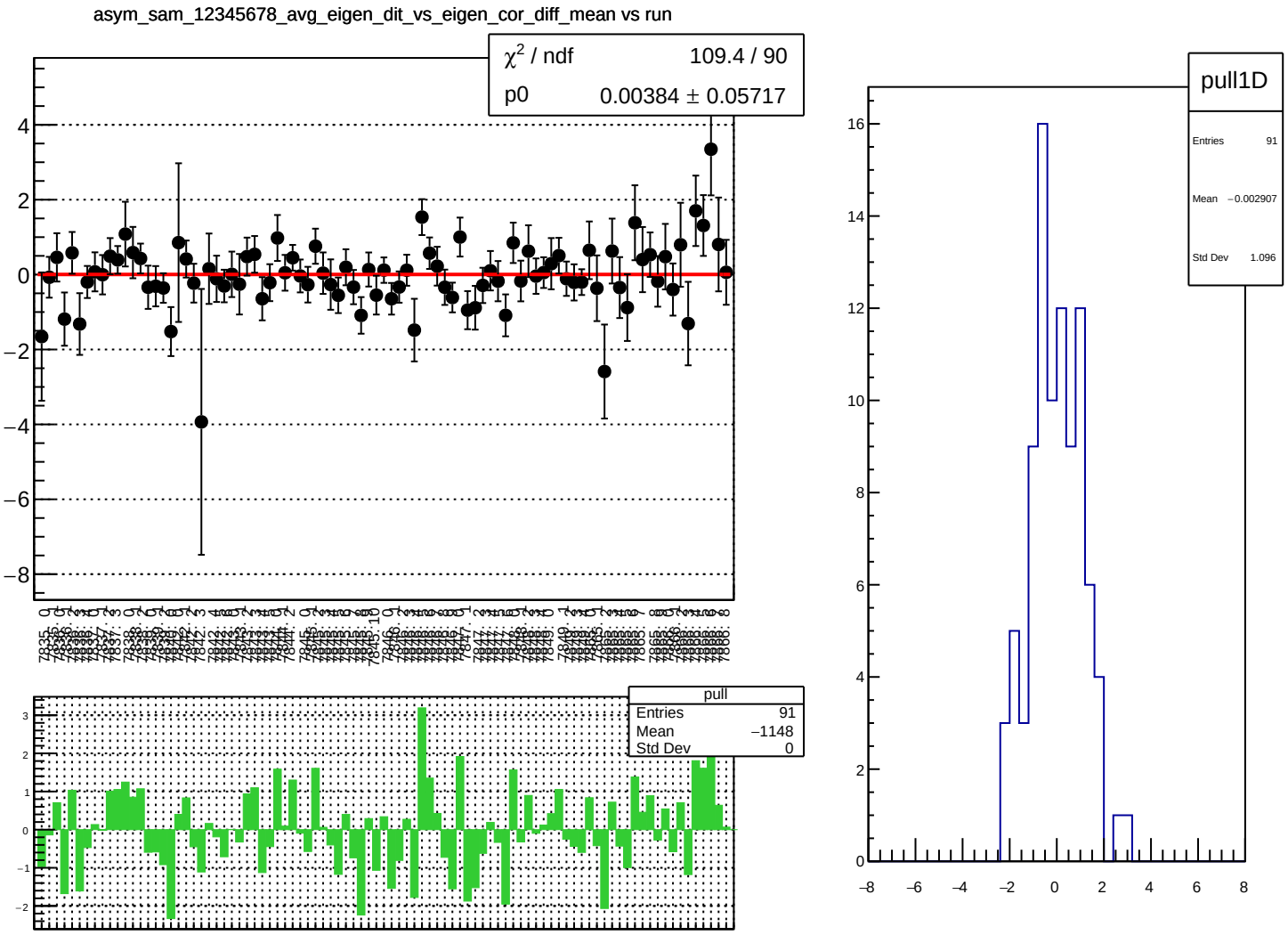

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 90
p0 51.45 ± 0.04043
350
300
250
200
150
100
50

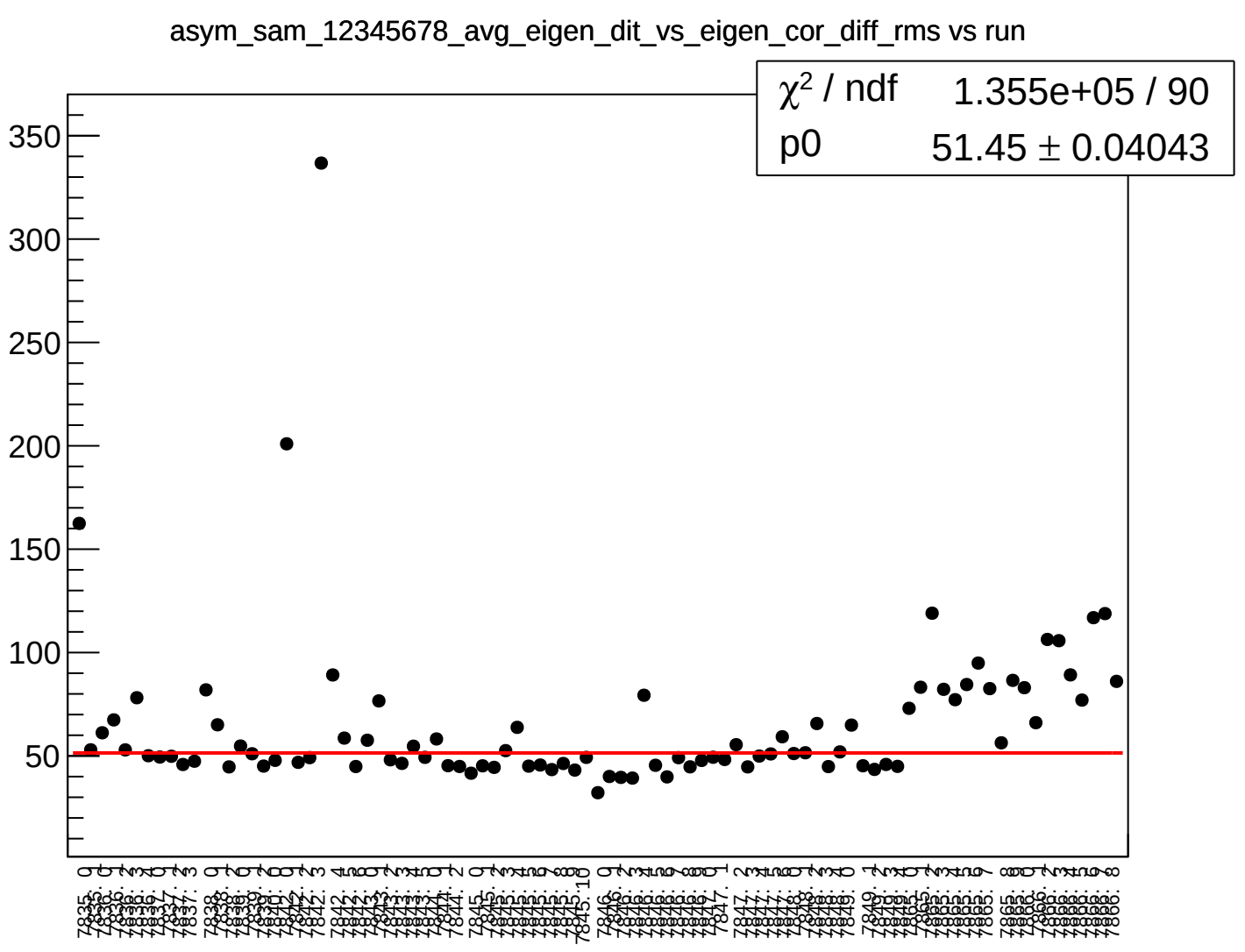

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 122.5 / 90
p0 2.458e−06 ± 1.037e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean −737.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.005726
Std Dev 1.16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

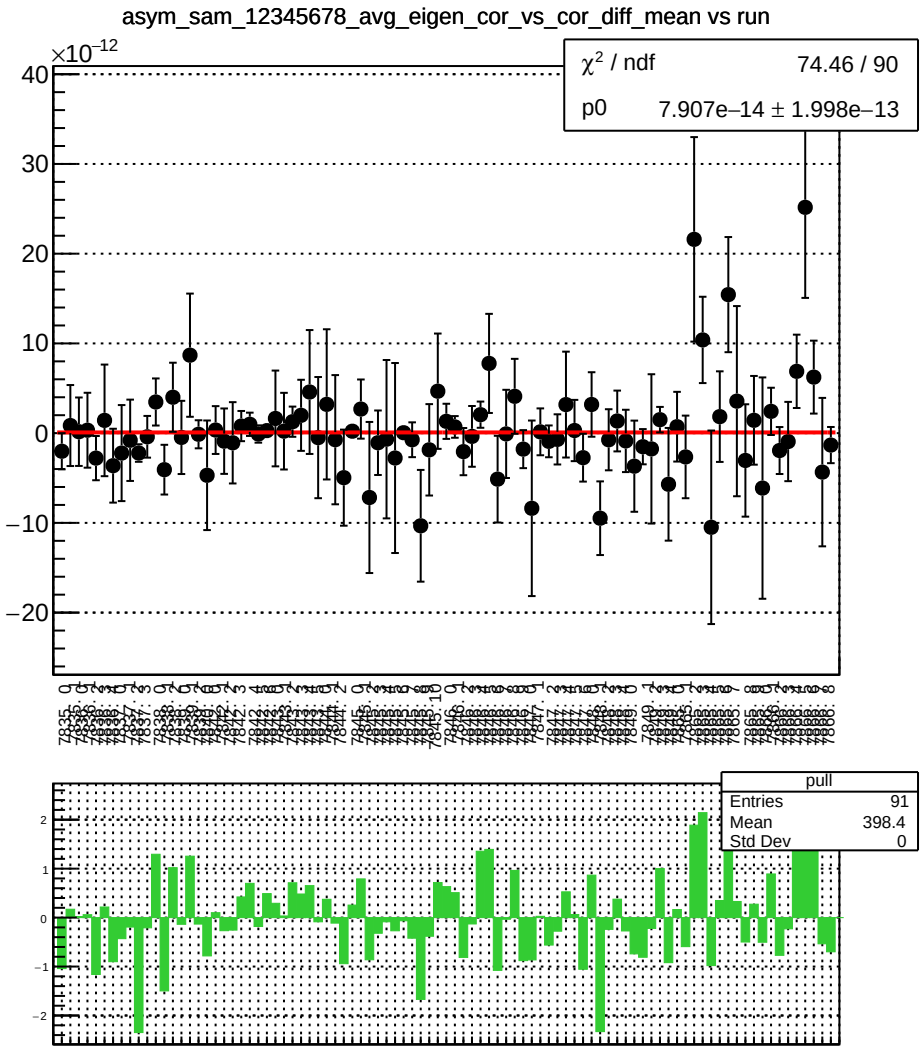

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.898e+04 / 90
p0 0.0009437 ± 7.333e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

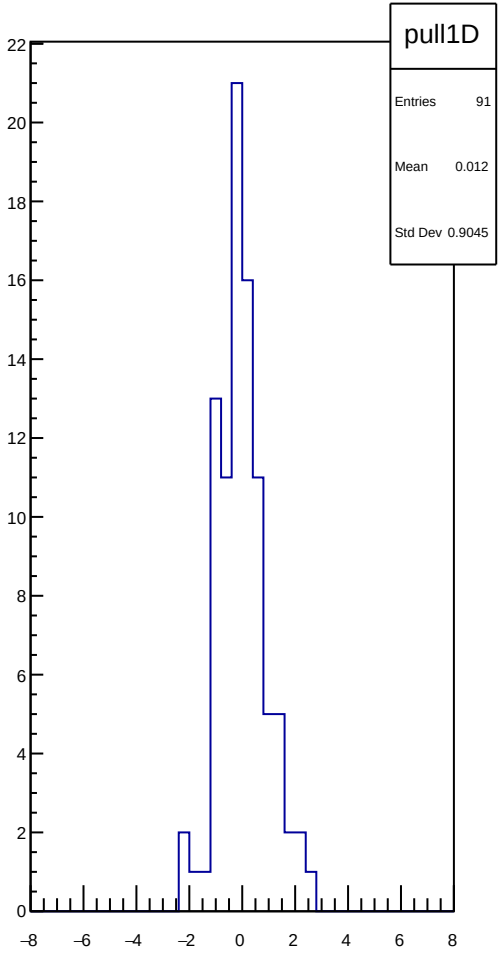

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 90
p0 0.00384 ± 0.05717
pull
Entries 91
Mean −1148
Std Dev 0
pull1D
Entries 91
Mean −0.002907
Std Dev 1.096

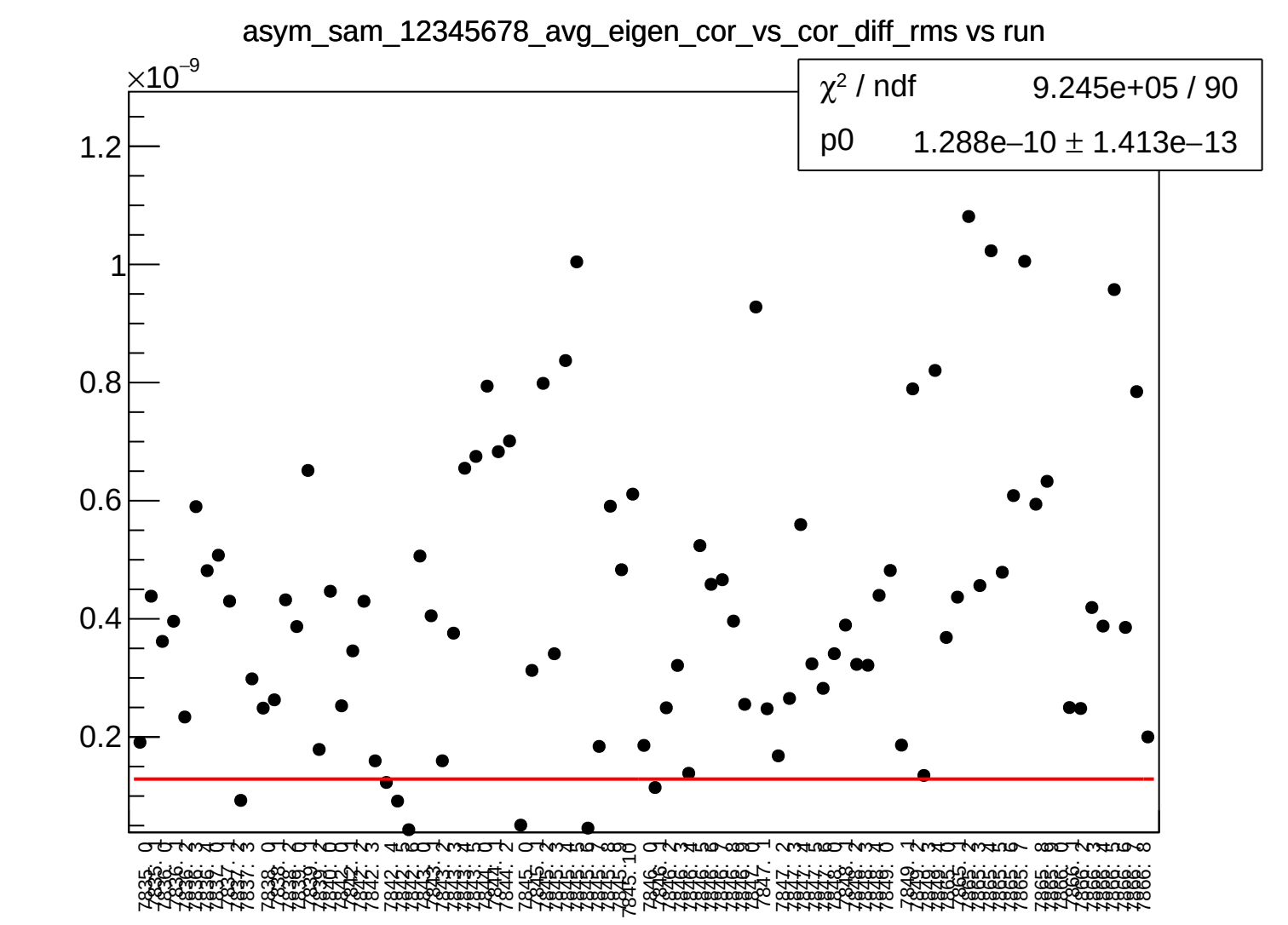

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 90
p0 51.45 ± 0.04043
350
300
250
200
150
100
50

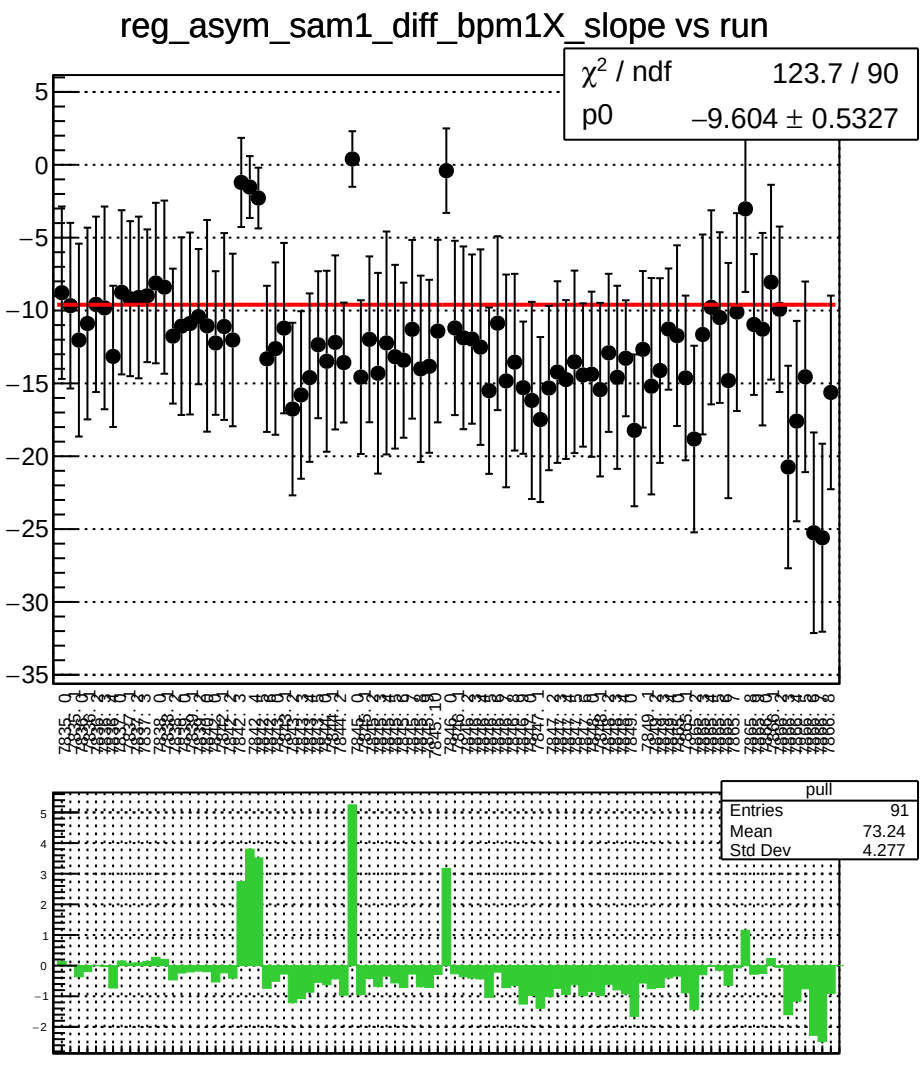

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 90
p0 0.00384 ± 0.05717
pull
Entries 91
Mean −1148
Std Dev 0
pull1D
Entries 91
Mean −0.002907
Std Dev 1.096

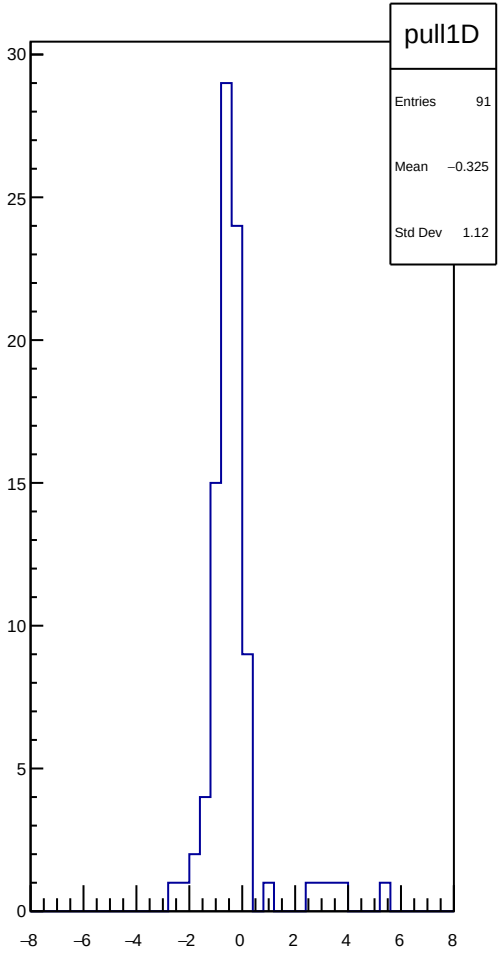

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 90
p0 51.45 ± 0.04043
350
300
250
200
150
100
50

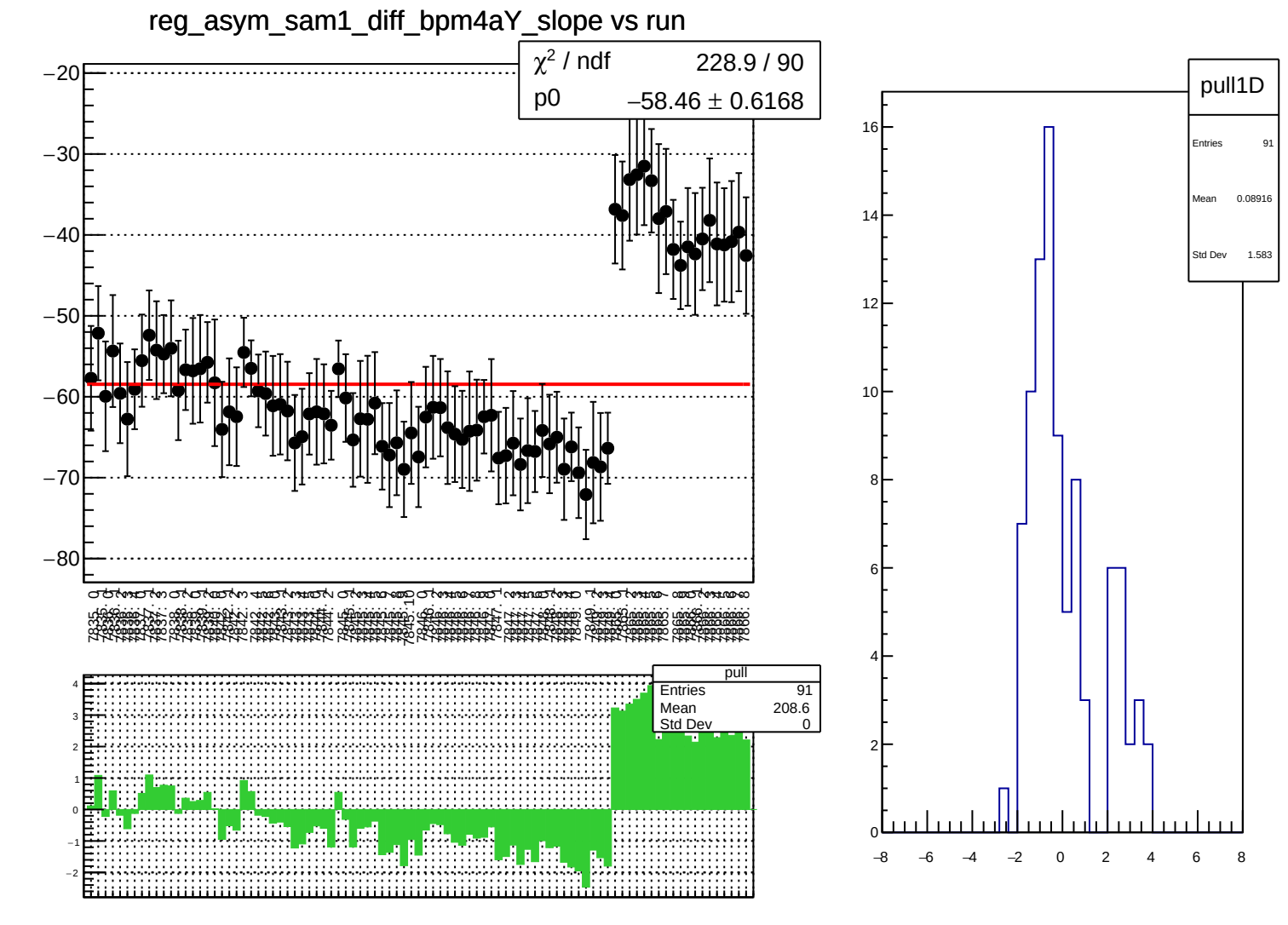

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.46 / 90
p0 7.907e−14 ± 1.998e−13
pull
Entries 91
Mean 398.4
Std Dev 0

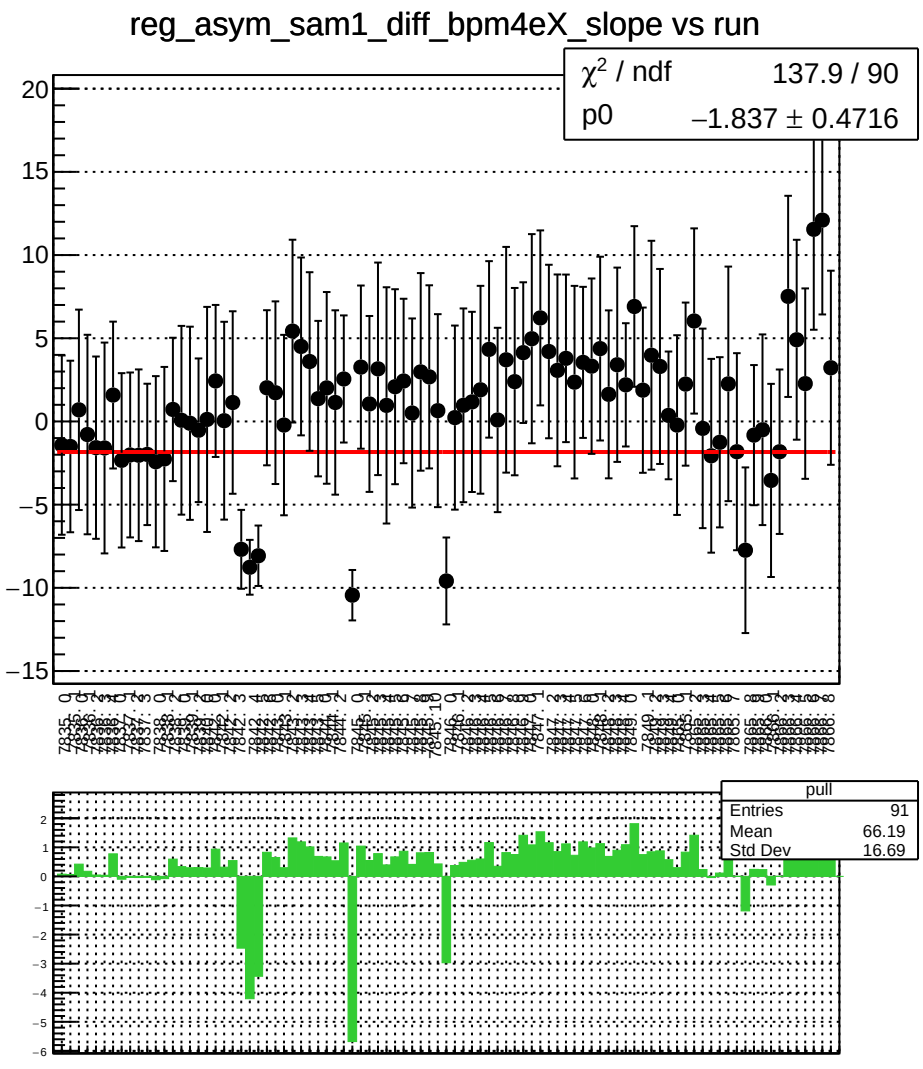

pull1D
Entries 91
Mean 0.012
Std Dev 0.9045

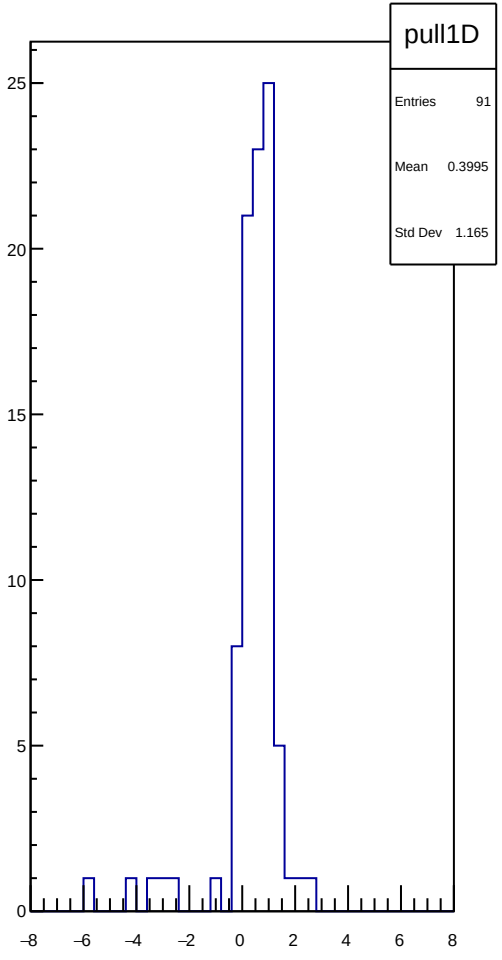

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.245e+05 / 90
p0 1.288e−10 ± 1.413e−13
1.2
1
0.8
0.6
0.4
0.2

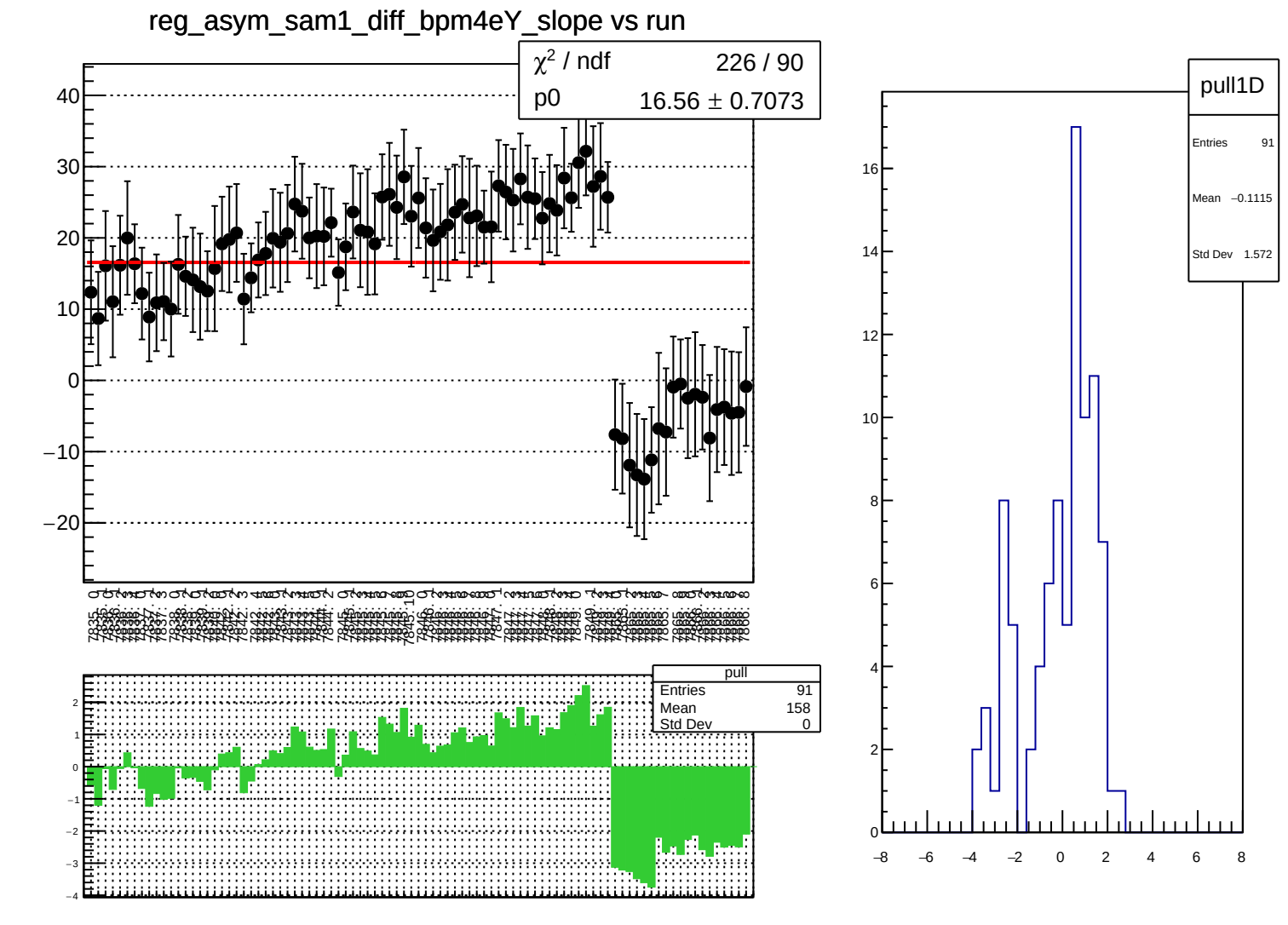

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 123.7 / 90
p0 −9.604 ± 0.5327
pull
Entries 91
Mean 73.24
Std Dev 4.277

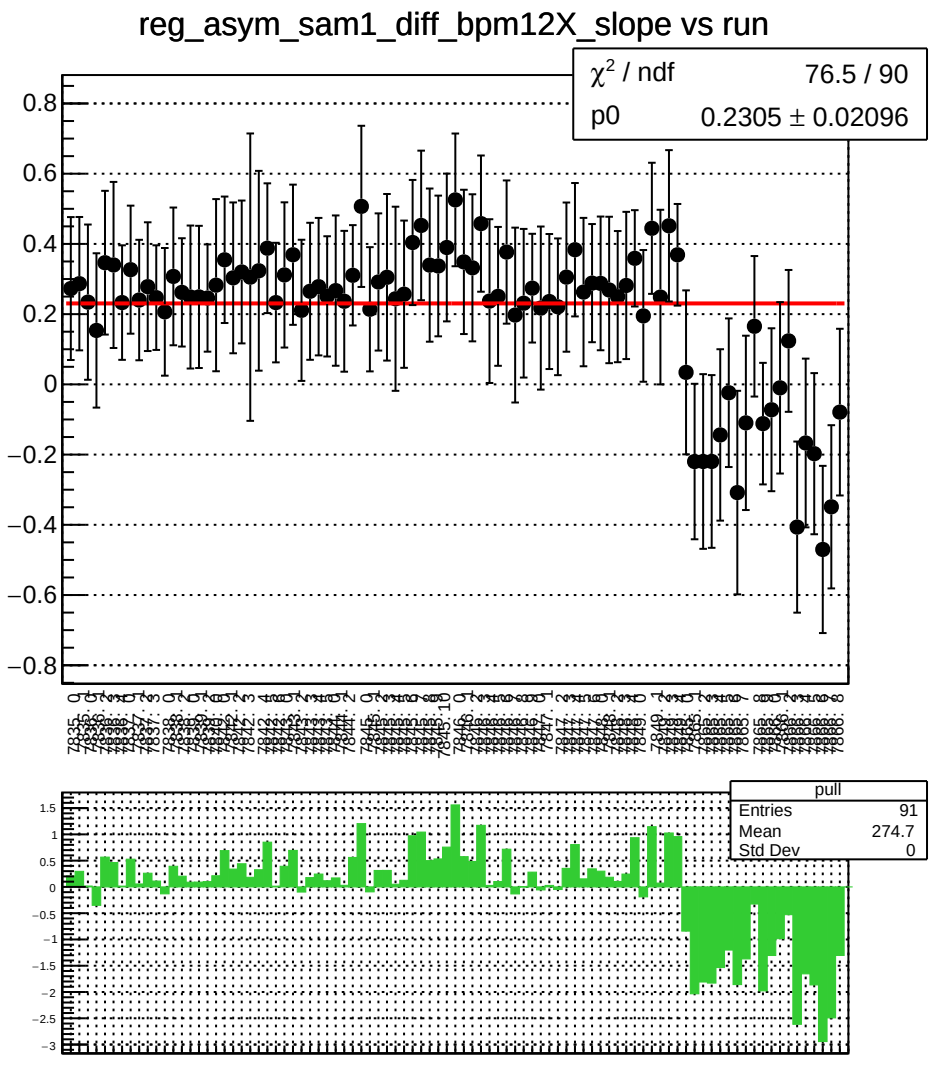

pull1D
Entries 91
Mean −0.325
Std Dev 1.12

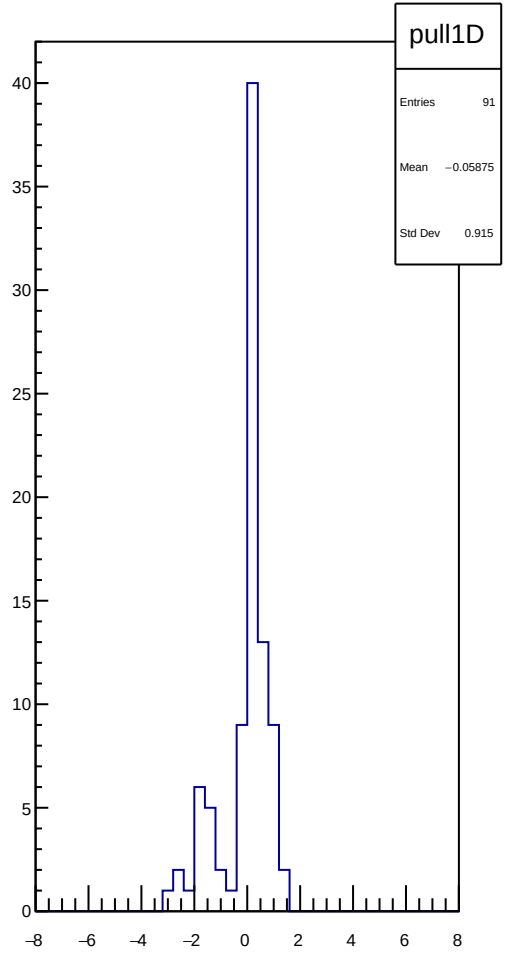

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 228.9 / 90
p0 −58.46 ± 0.6168
pull
Entries 91
Mean 208.6
Std Dev 0
pull1D
Entries 91
Mean 0.08916
Std Dev 1.583

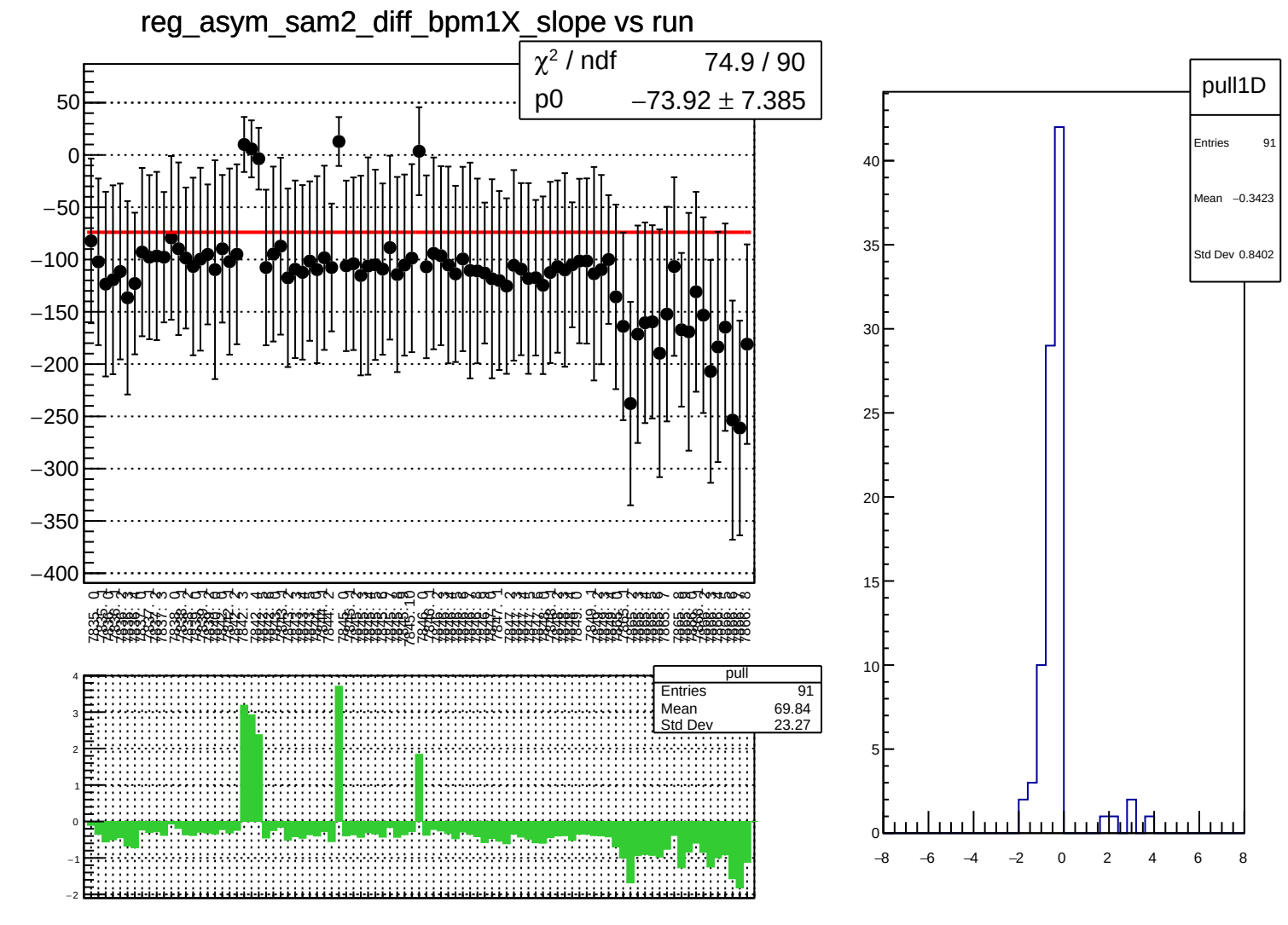

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 137.9 / 90
p0 −1.837 ± 0.4716
pull
Entries 91
Mean 66.19
Std Dev 16.69

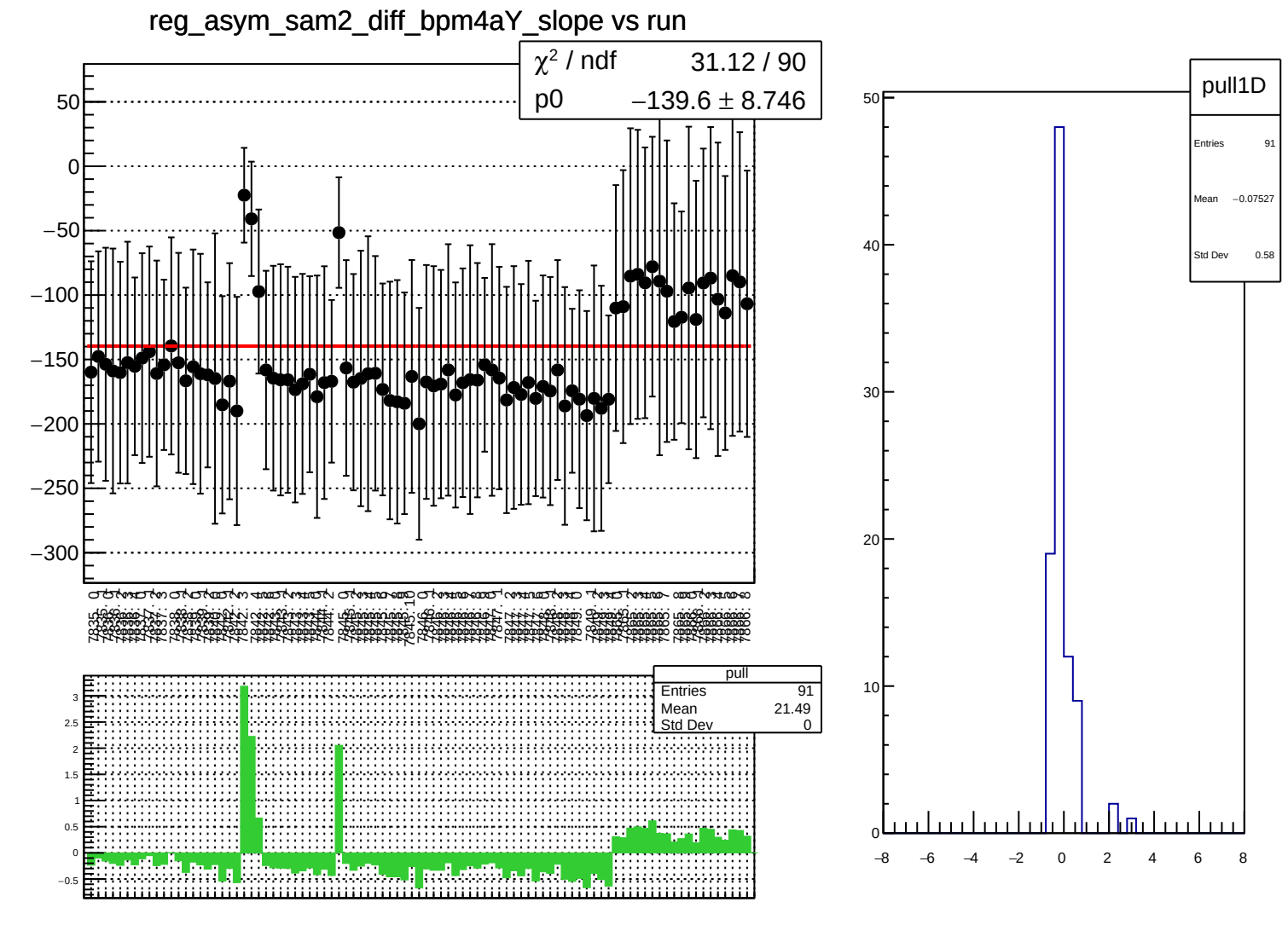

pull1D
Entries 91
Mean 0.3995
Std Dev 1.165

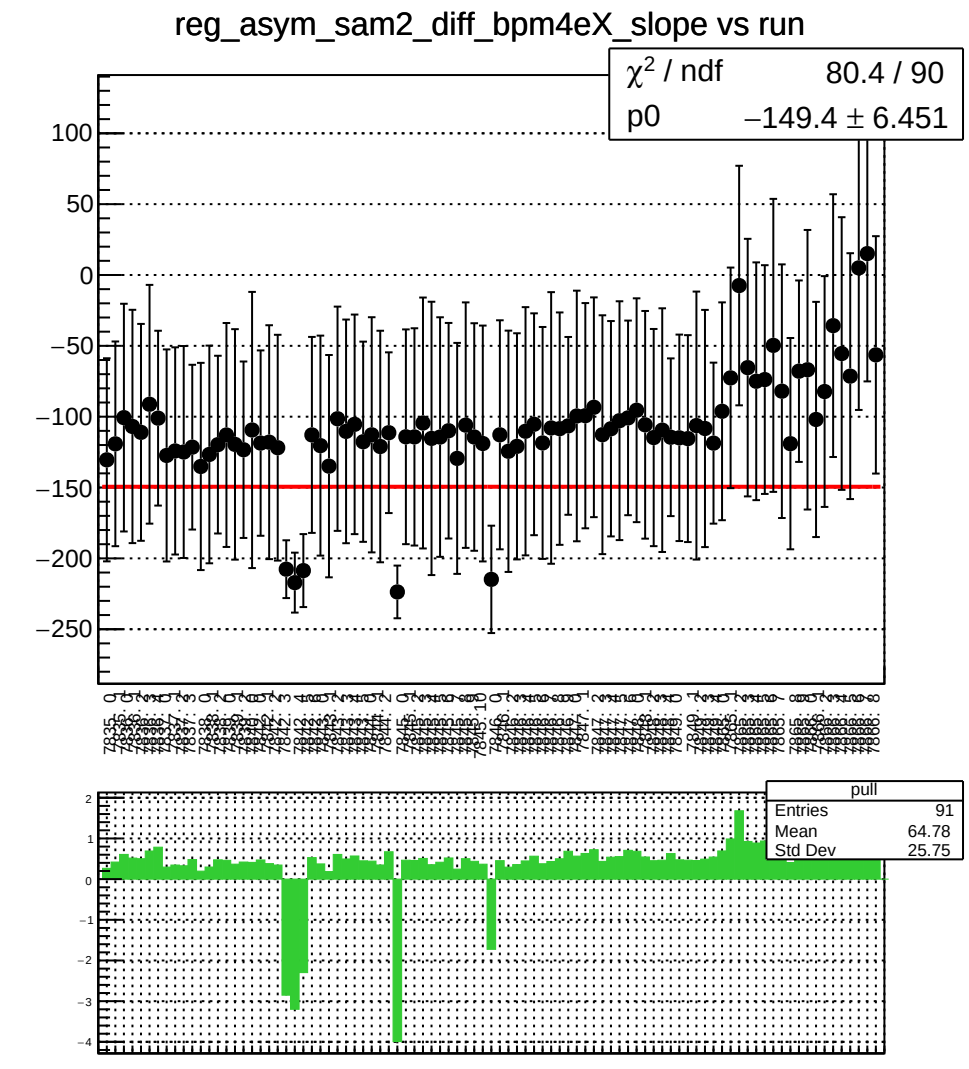

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 226 / 90
p0 16.56 ± 0.7073
pull
Entries 91
Mean 158
Std Dev 0
pull1D
Entries 91
Mean −0.1115
Std Dev 1.572

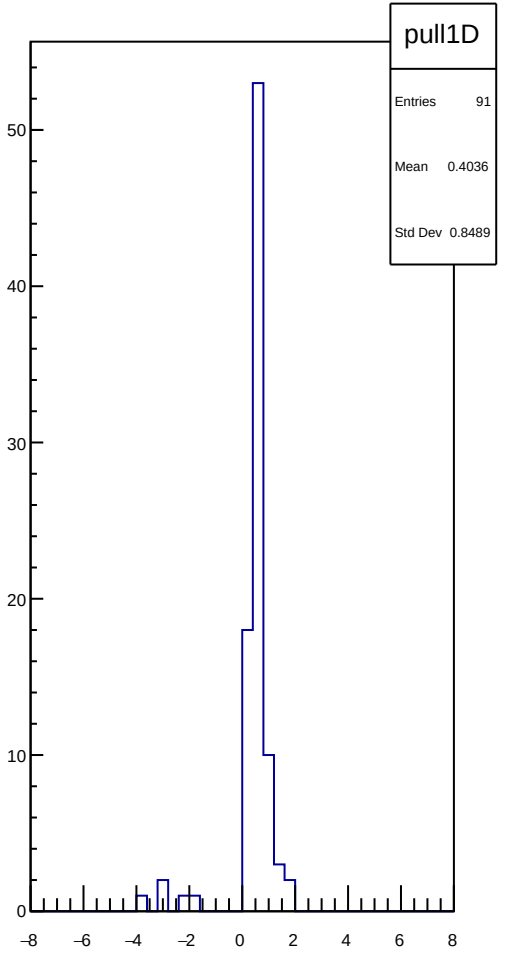

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 76.5 / 90
p0 0.2305 ± 0.02096
pull
Entries 91
Mean 274.7
Std Dev 0

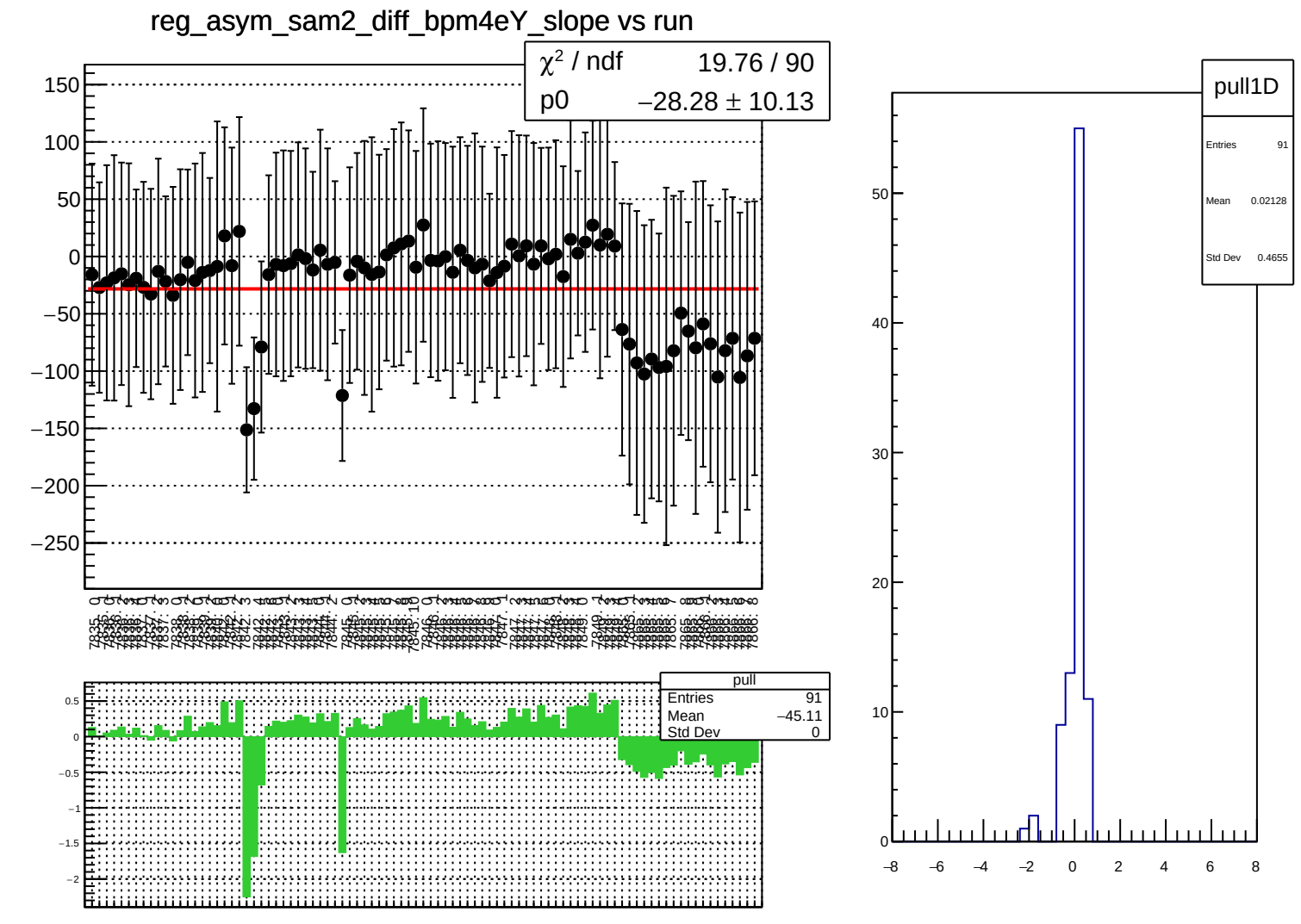

pull1D
Entries 91
Mean −0.05875
Std Dev 0.915

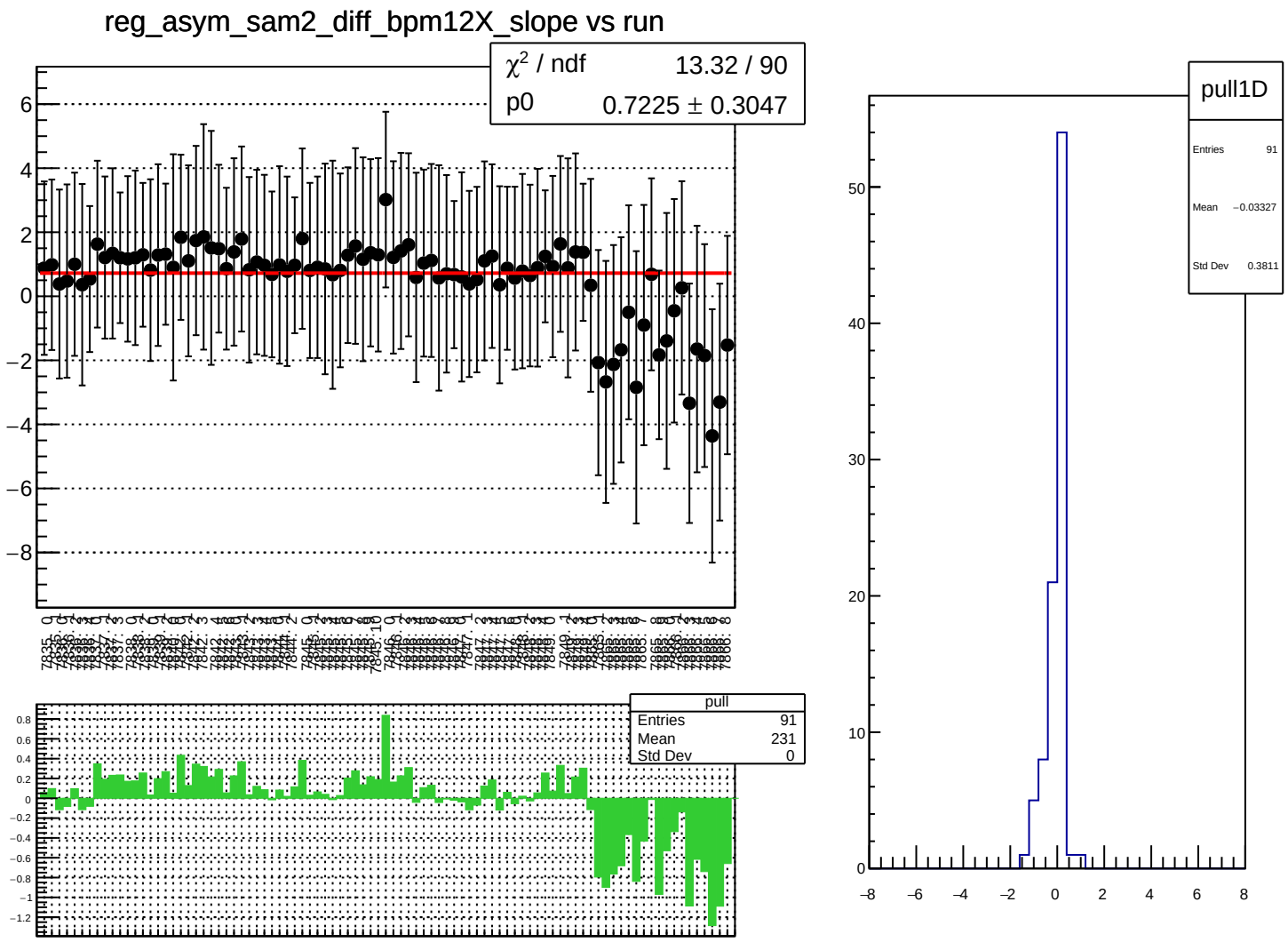

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 74.9 / 90
p0 −73.92 ± 7.385
pull
Entries 91
Mean 69.84
Std Dev 23.27
pull1D
Entries 91
Mean −0.3423
Std Dev 0.8402

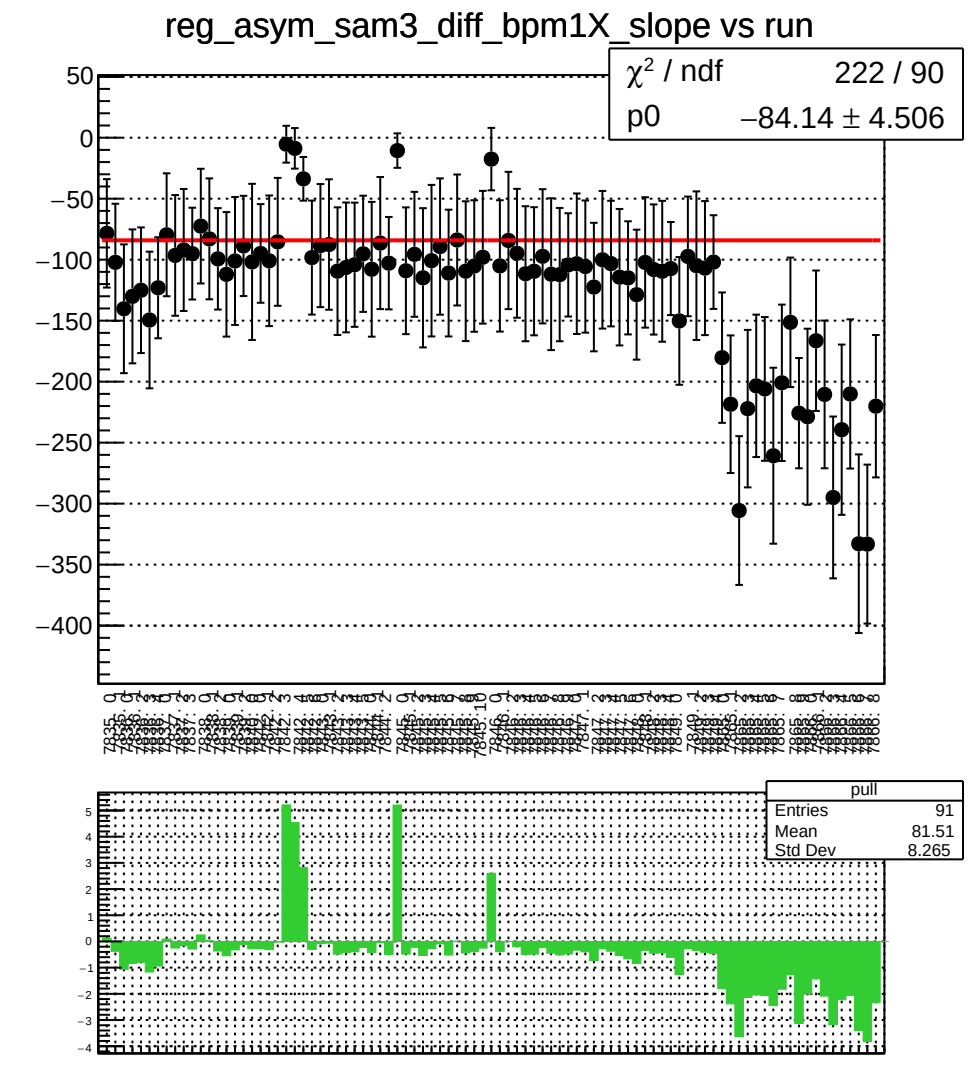

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 31.12 / 90
p0 −139.6 ± 8.746
pull
Entries 91
Mean 21.49
Std Dev 0
pull1D
Entries 91
Mean −0.07527
Std Dev 0.58

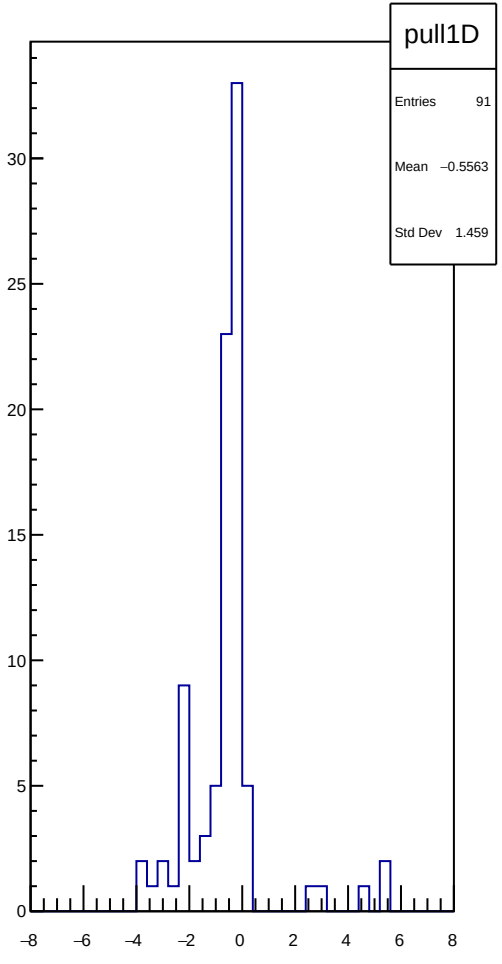

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 80.4 / 90
p0 −149.4 ± 6.451
pull
Entries 91
Mean 64.78
Std Dev 25.75

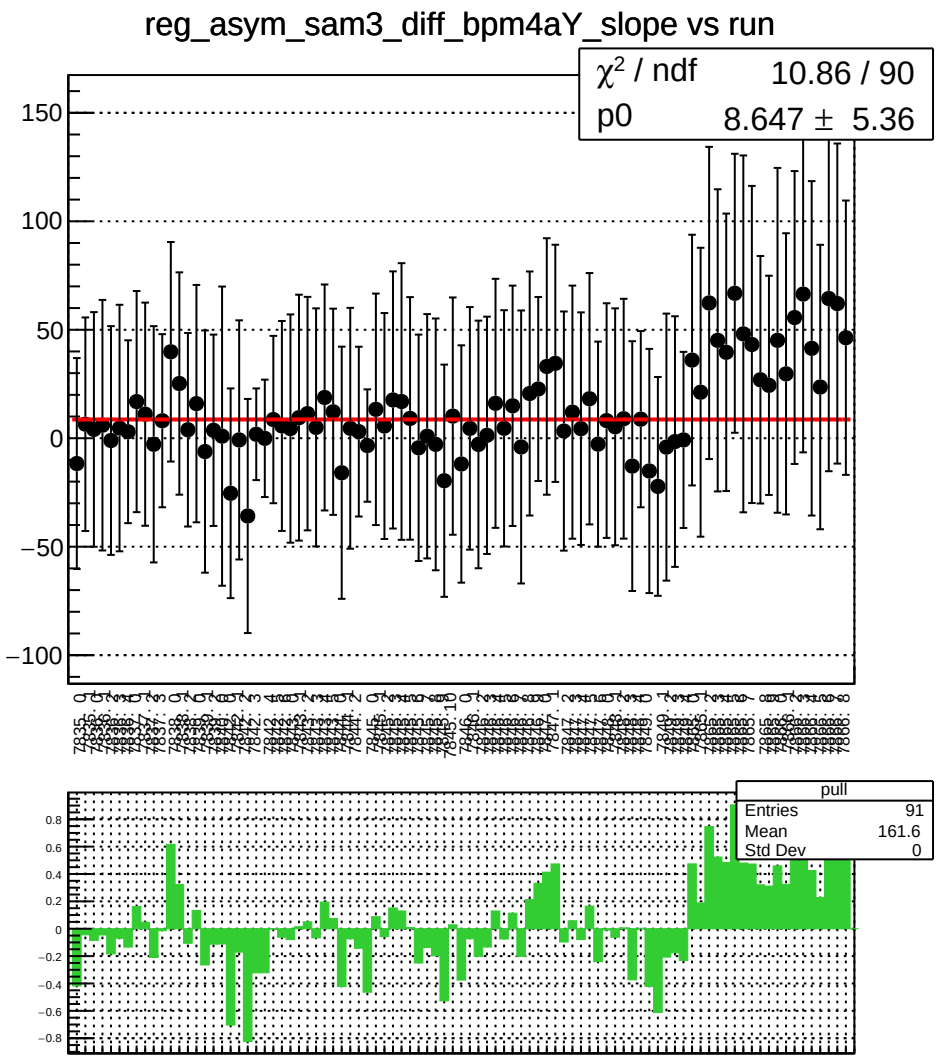

pull1D
Entries 91
Mean 0.4036
Std Dev 0.8489

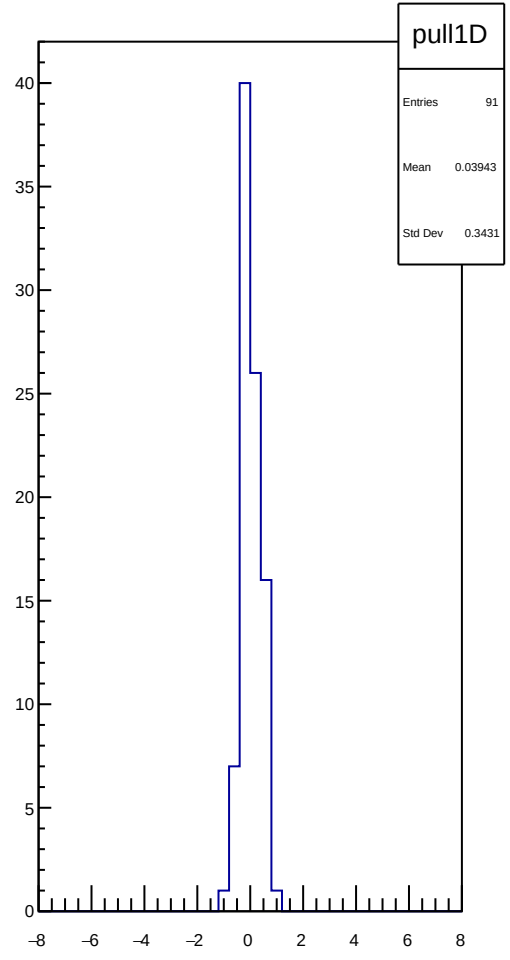

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 19.76 / 90
p0 −28.28 ± 10.13
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 91
Mean −45.11
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.02128
Std Dev 0.4655
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

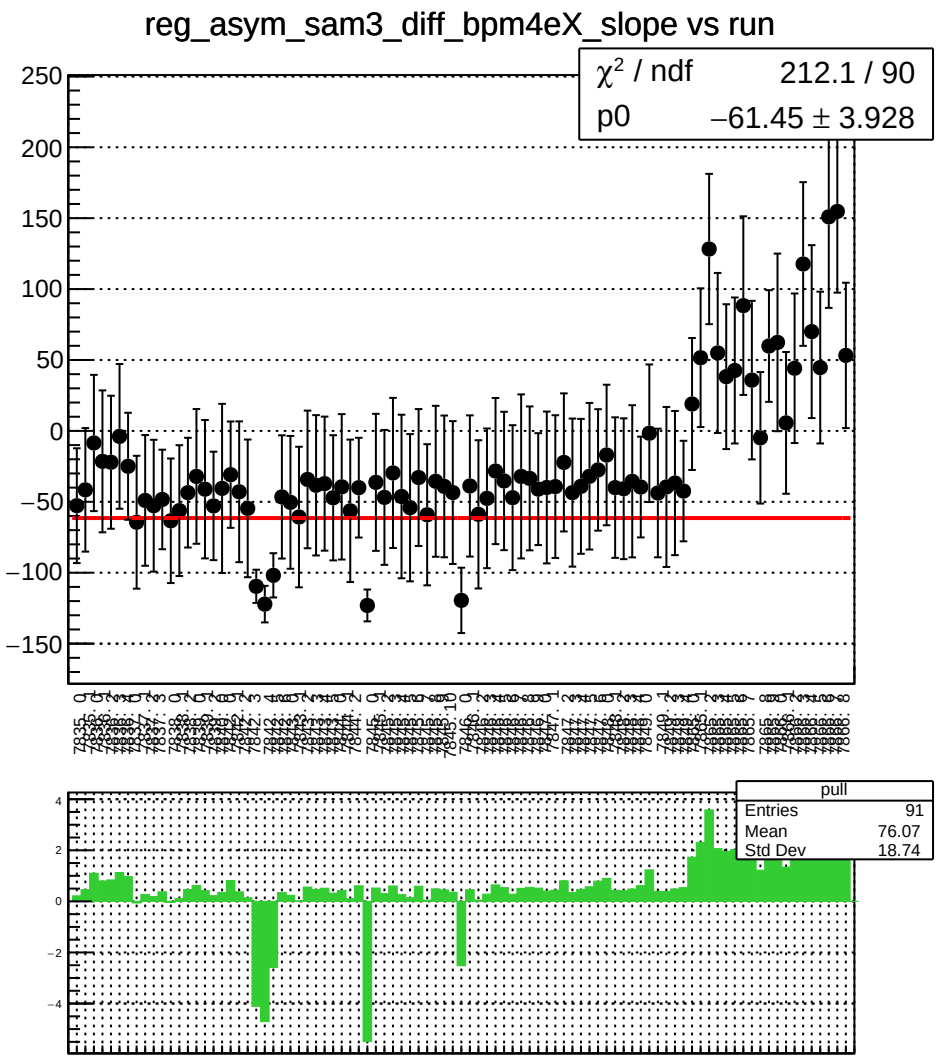

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 13.32 / 90
p0 0.7225 ± 0.3047
pull
Entries 91
Mean 231
Std Dev 0
pull1D
Entries 91
Mean −0.03327
Std Dev 0.3811

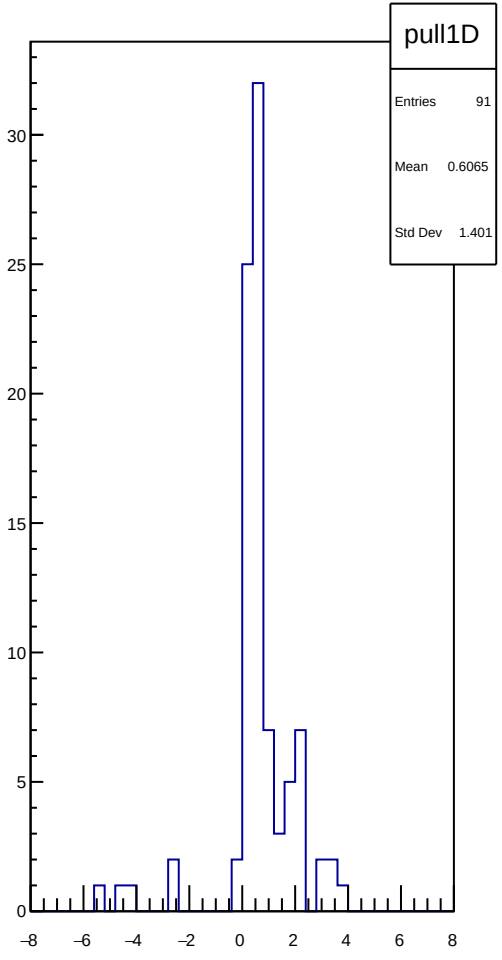

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 222 / 90
p0 −84.14 ± 4.506
pull
Entries 91
Mean 81.51
Std Dev 8.265

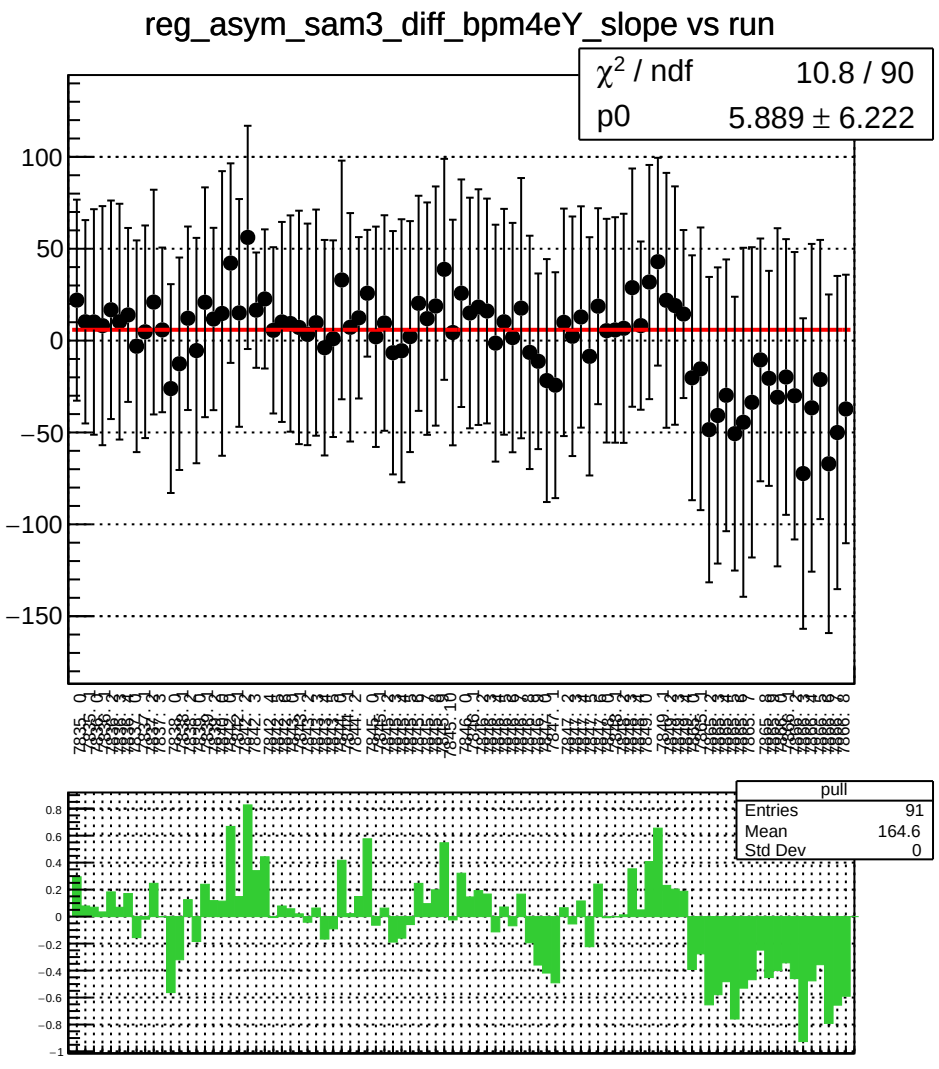

pull1D
Entries 91
Mean −0.5563
Std Dev 1.459

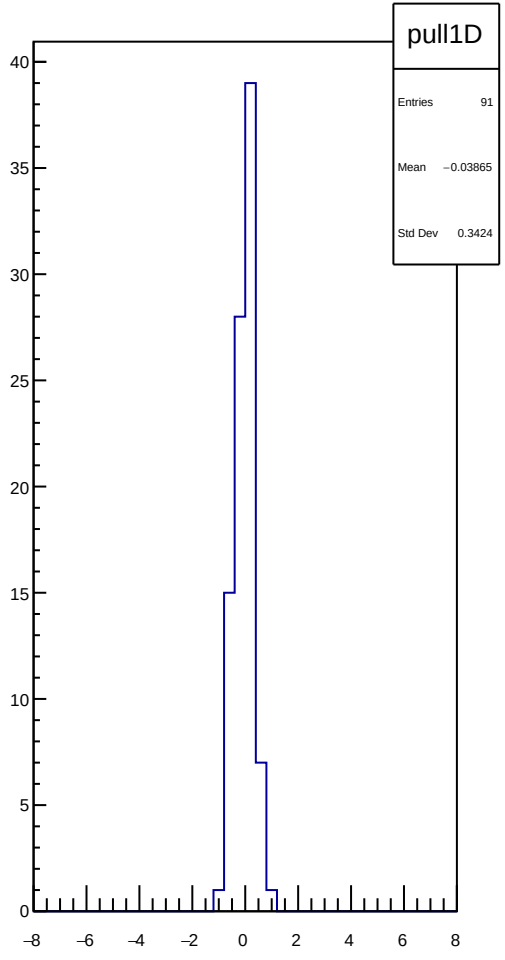

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 10.86 / 90
p0 8.647 ± 5.36
150
100
50
0
−50
−100
pull
Entries 91
Mean 161.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

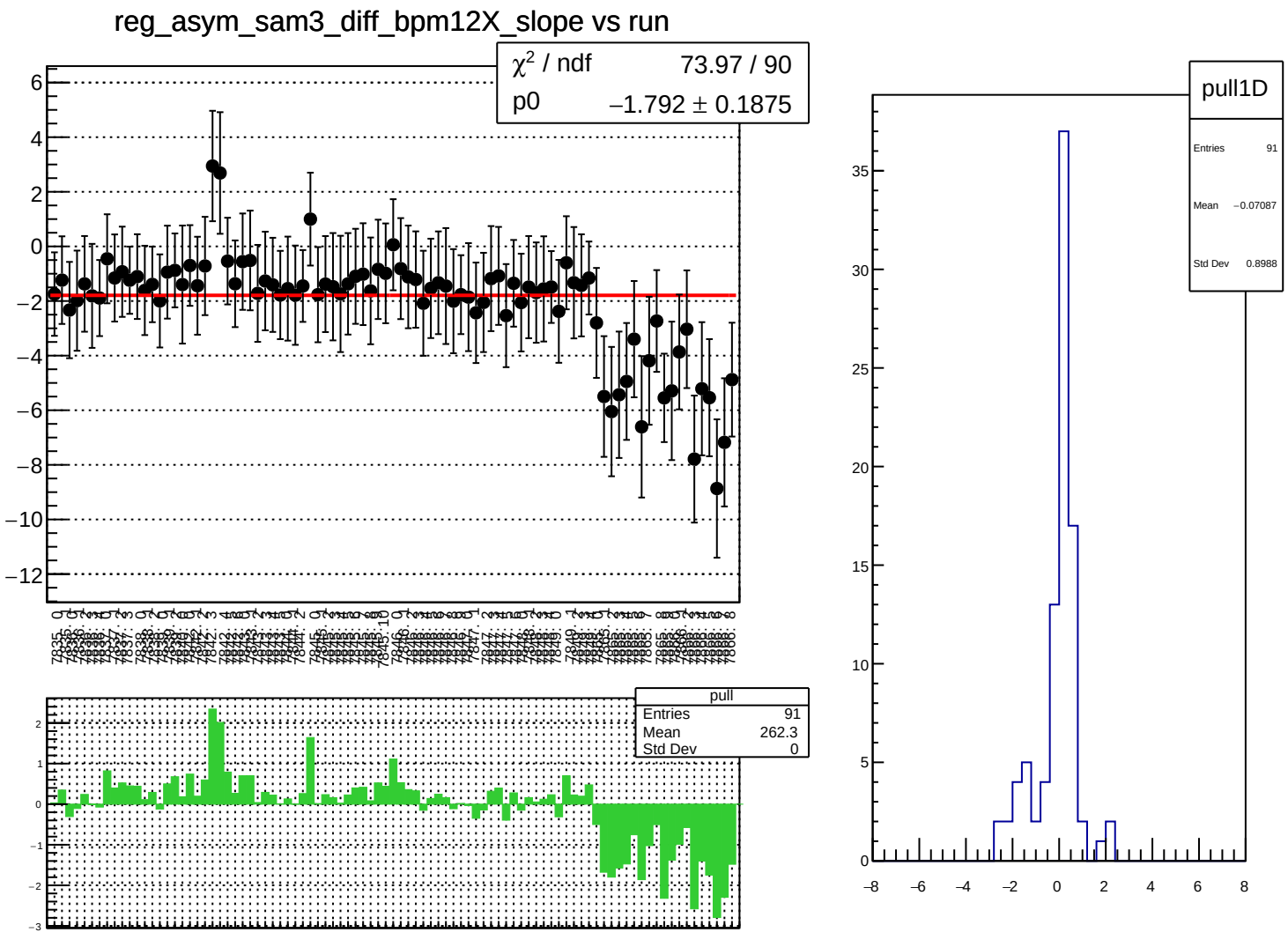

pull1D
Entries 91
Mean 0.03943
Std Dev 0.3431
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

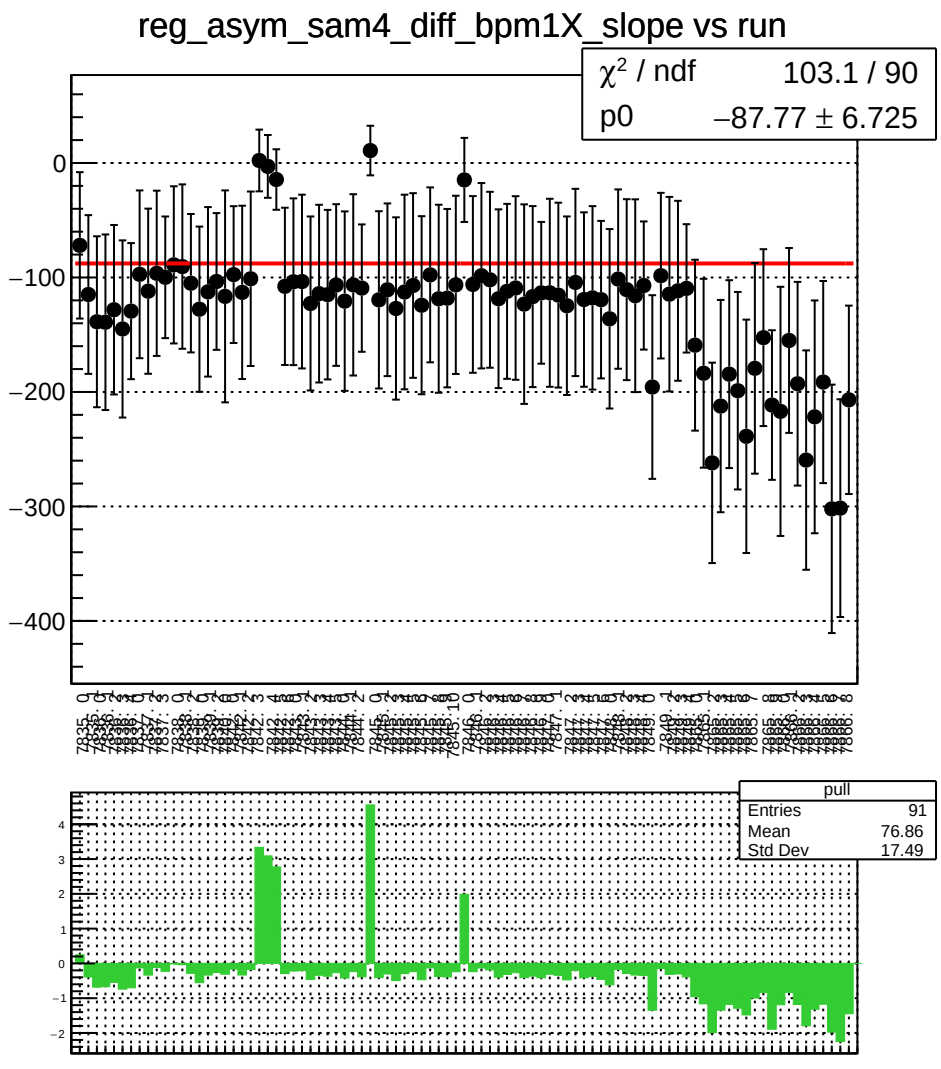

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 212.1 / 90
p0 −61.45 ± 3.928
pull
Entries 91
Mean 76.07
Std Dev 18.74

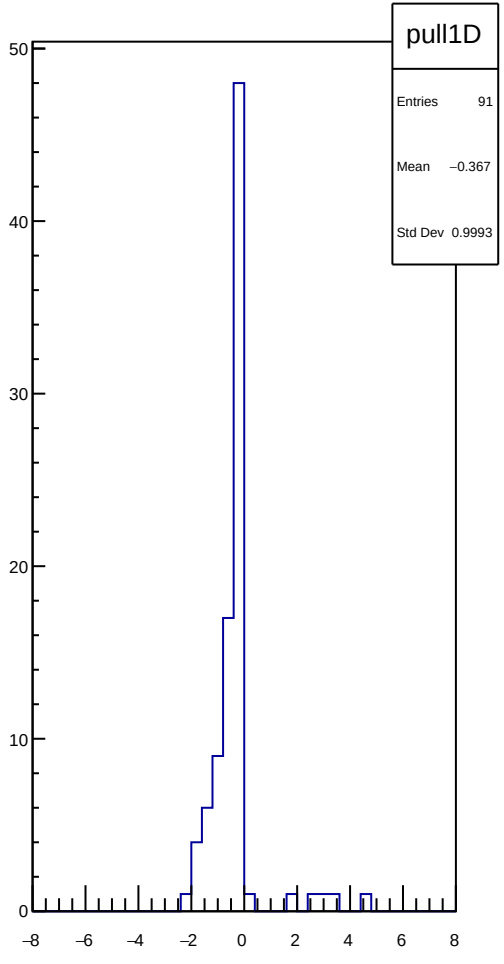

pull1D
Entries 91
Mean 0.6065
Std Dev 1.401

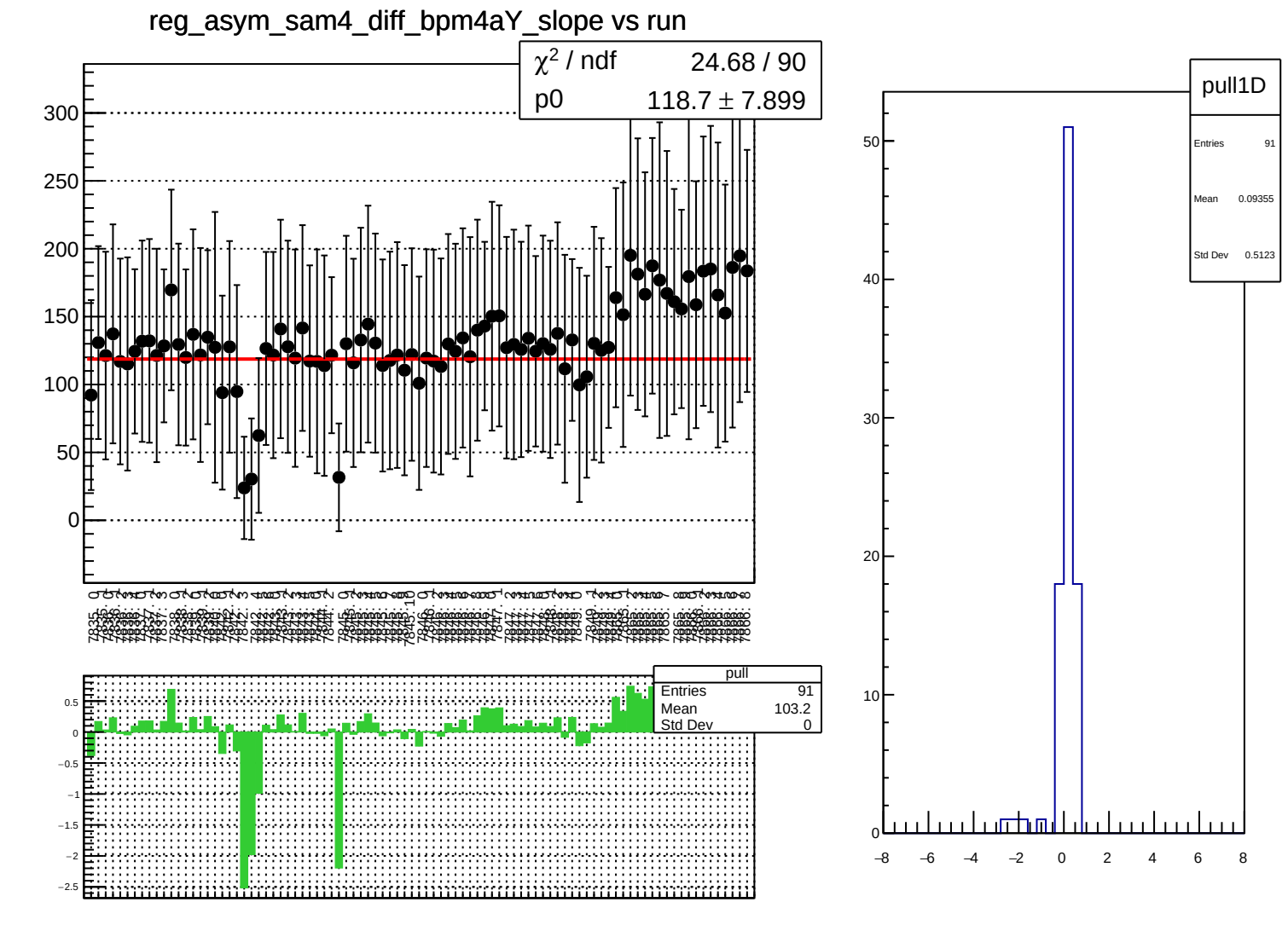

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 10.8 / 90
p0 5.889 ± 6.222
pull
Entries 91
Mean 164.6
Std Dev 0

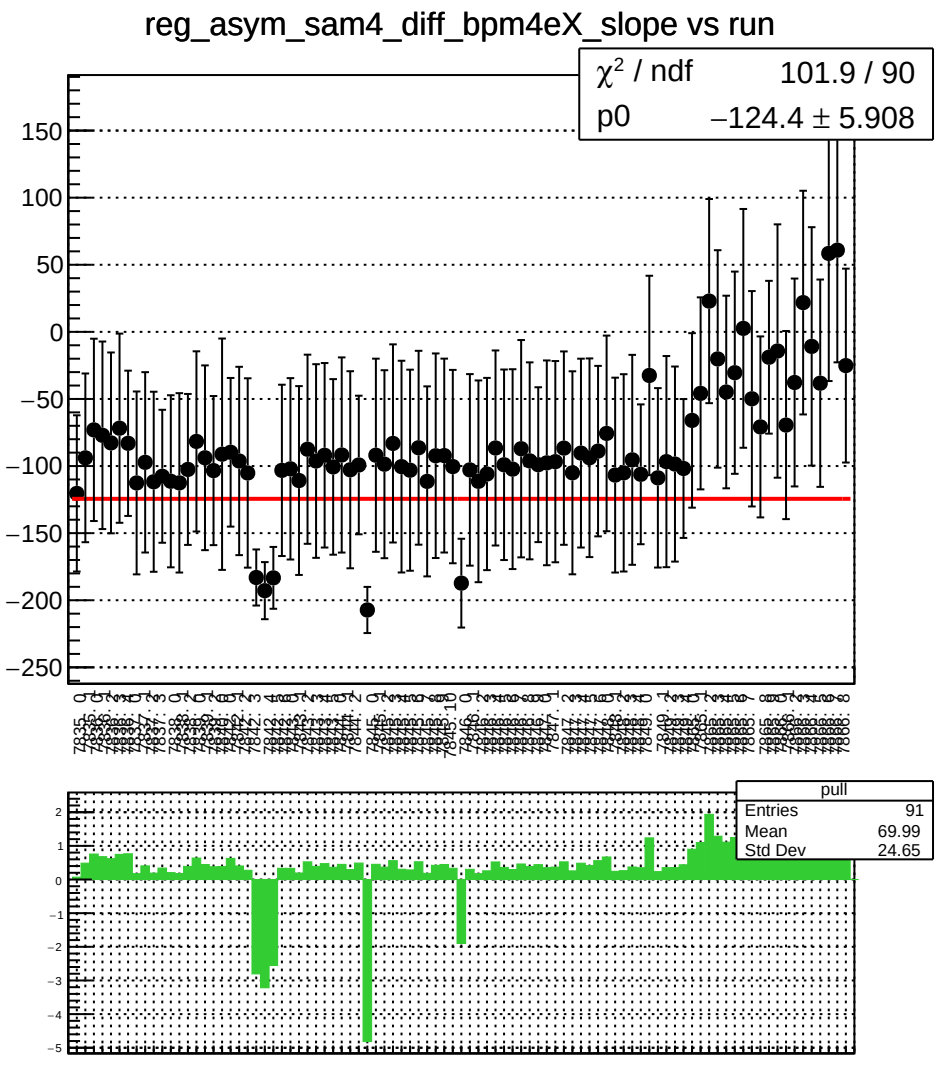

pull1D
Entries 91
Mean −0.03865
Std Dev 0.3424

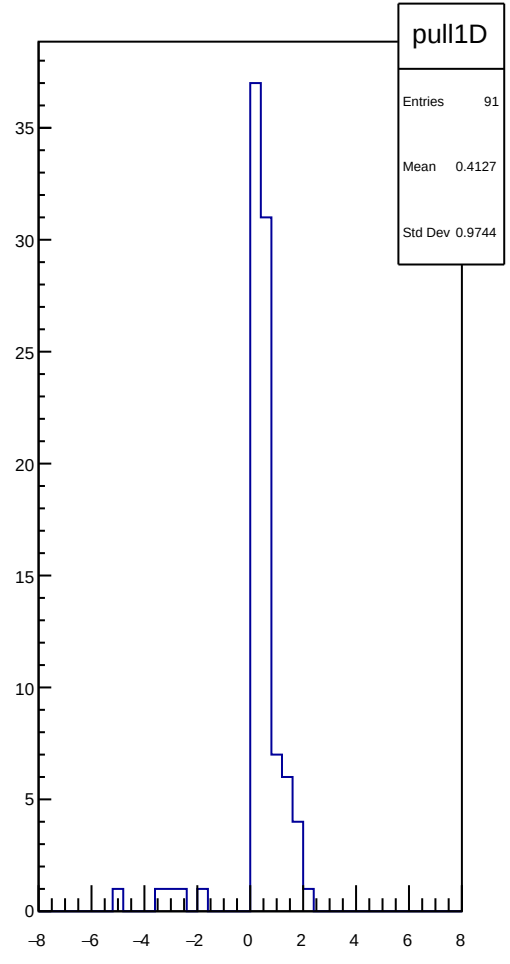

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 73.97 / 90
p0 −1.792 ± 0.1875
pull
Entries 91
Mean 262.3
Std Dev 0
pull1D
Entries 91
Mean −0.07087
Std Dev 0.8988

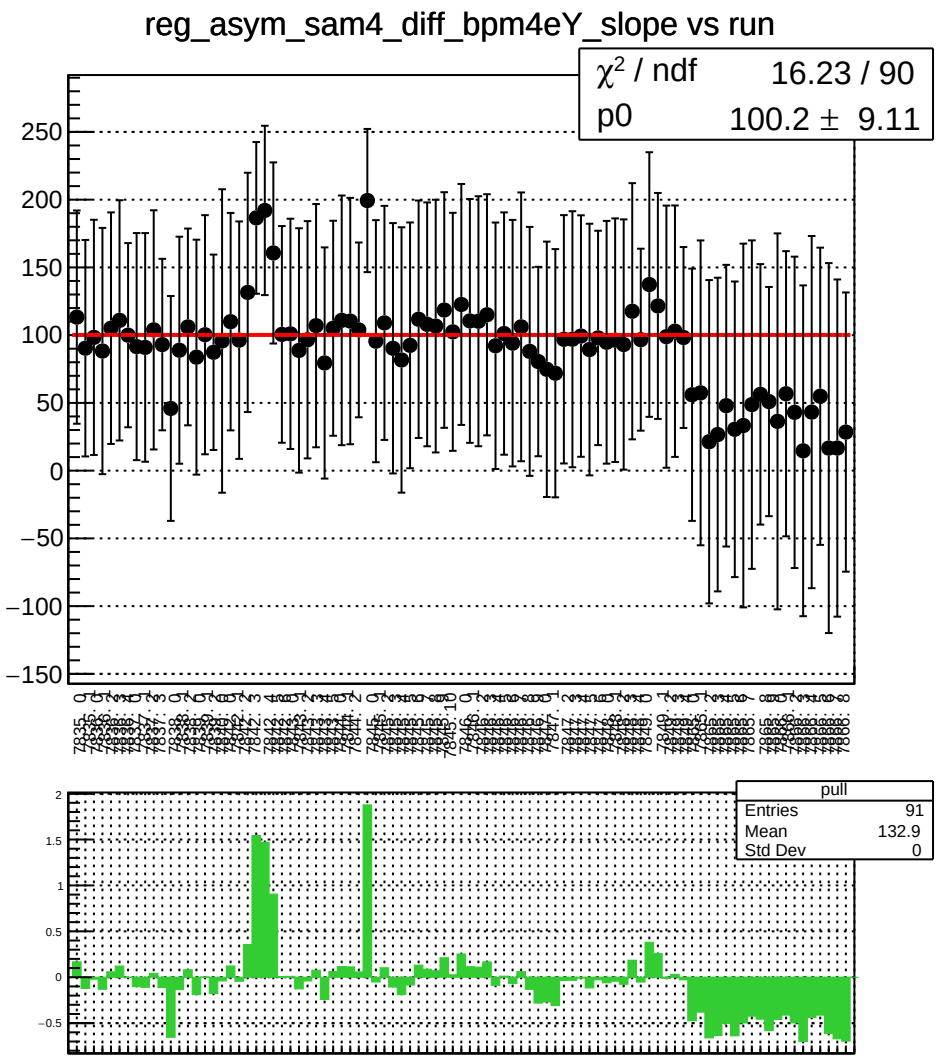

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 103.1 / 90
p0 −87.77 ± 6.725
pull
Entries 91
Mean 76.86
Std Dev 17.49

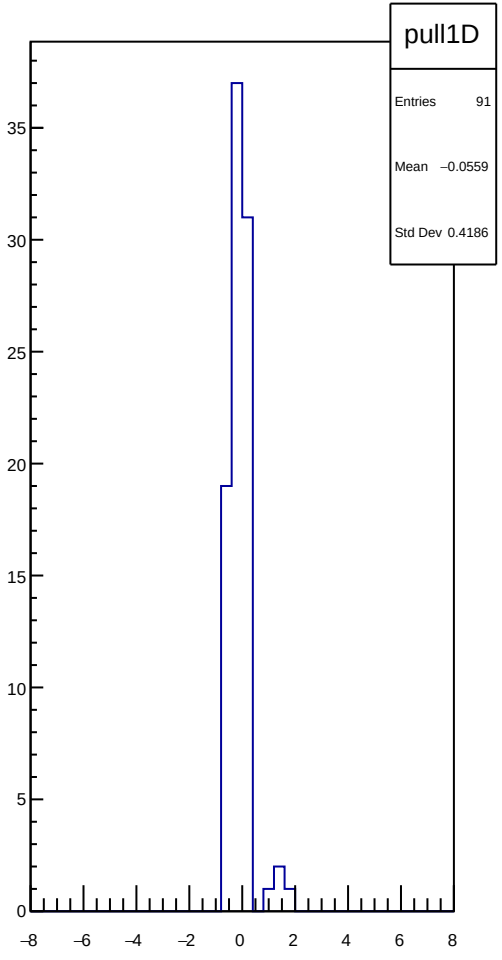

pull1D
Entries 91
Mean −0.367
Std Dev 0.9993

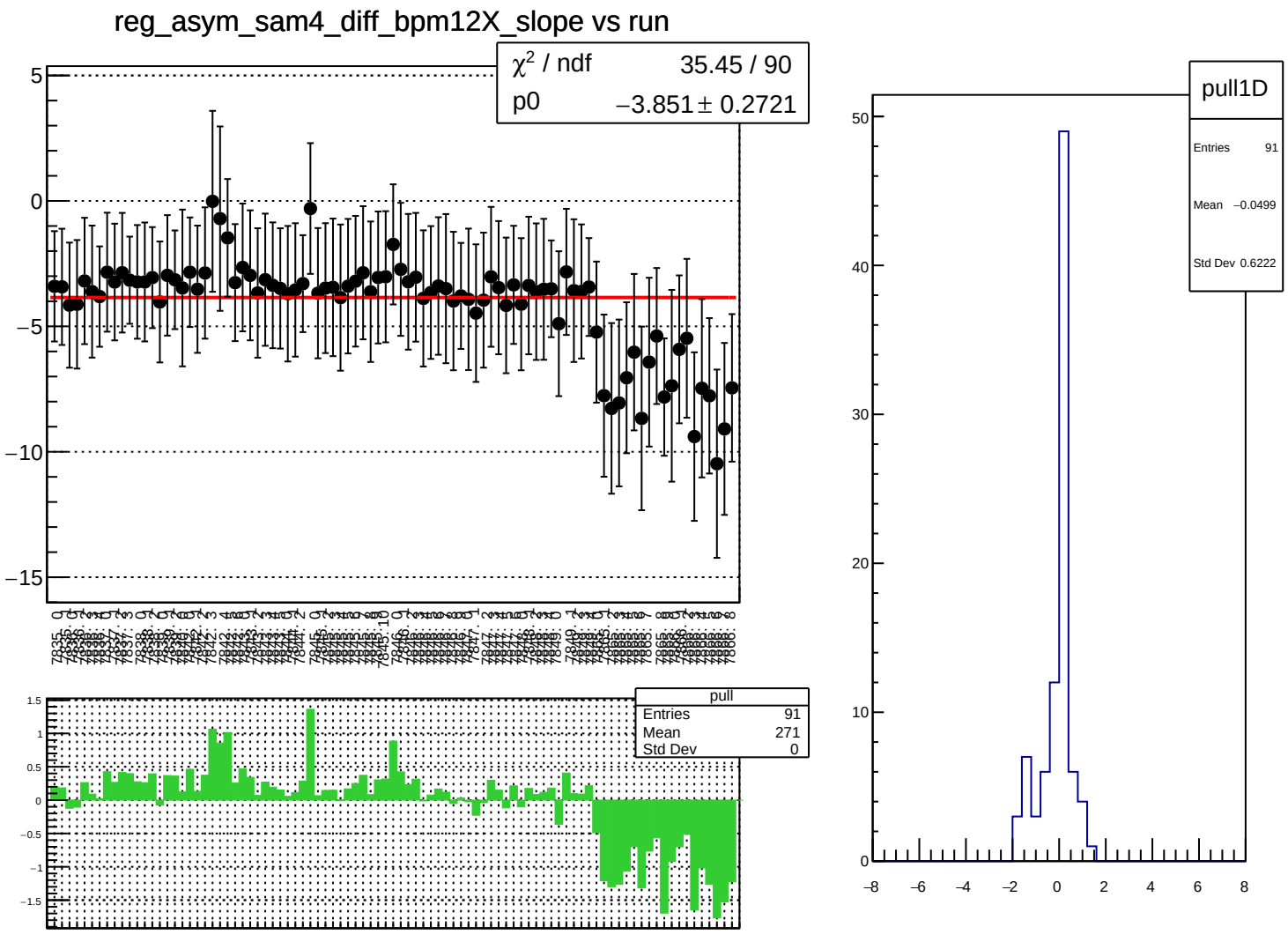

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 24.68 / 90
p0 118.7 ± 7.899
pull
Entries 91
Mean 103.2
Std Dev 0
pull1D
Entries 91
Mean 0.09355
Std Dev 0.5123

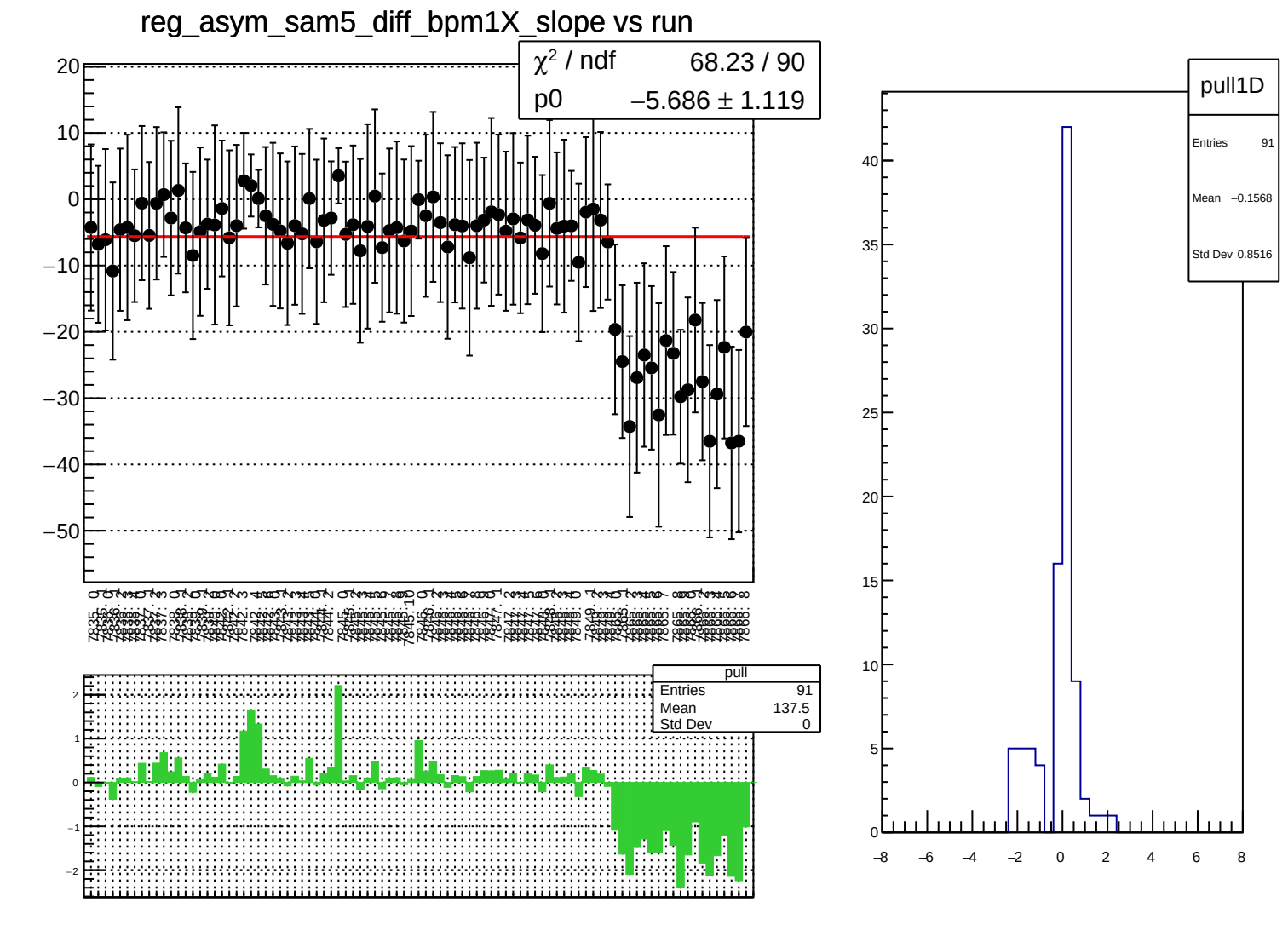

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 101.9 / 90
p0 −124.4 ± 5.908
pull
Entries 91
Mean 69.99
Std Dev 24.65

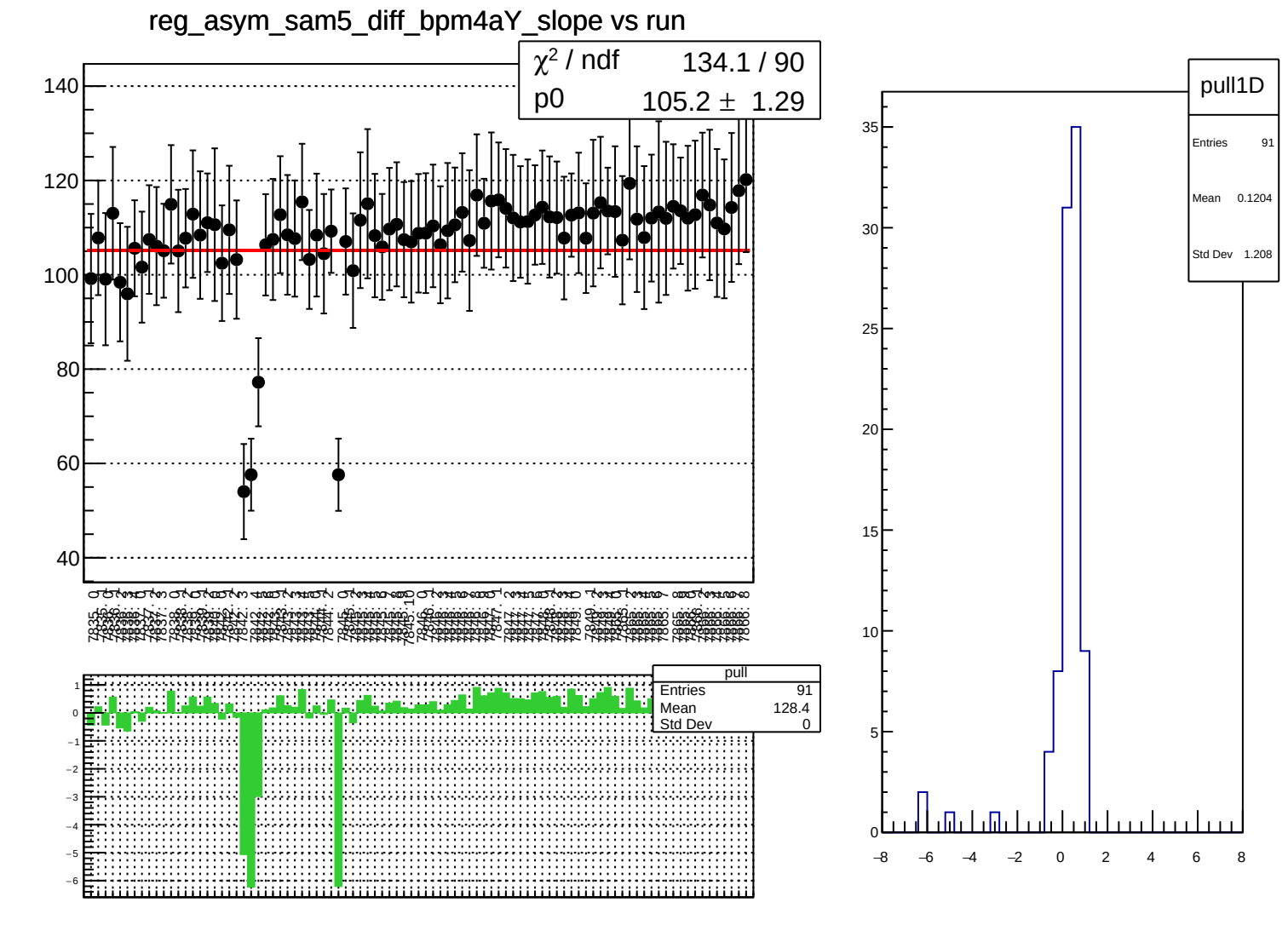

pull1D
Entries 91
Mean 0.4127
Std Dev 0.9744

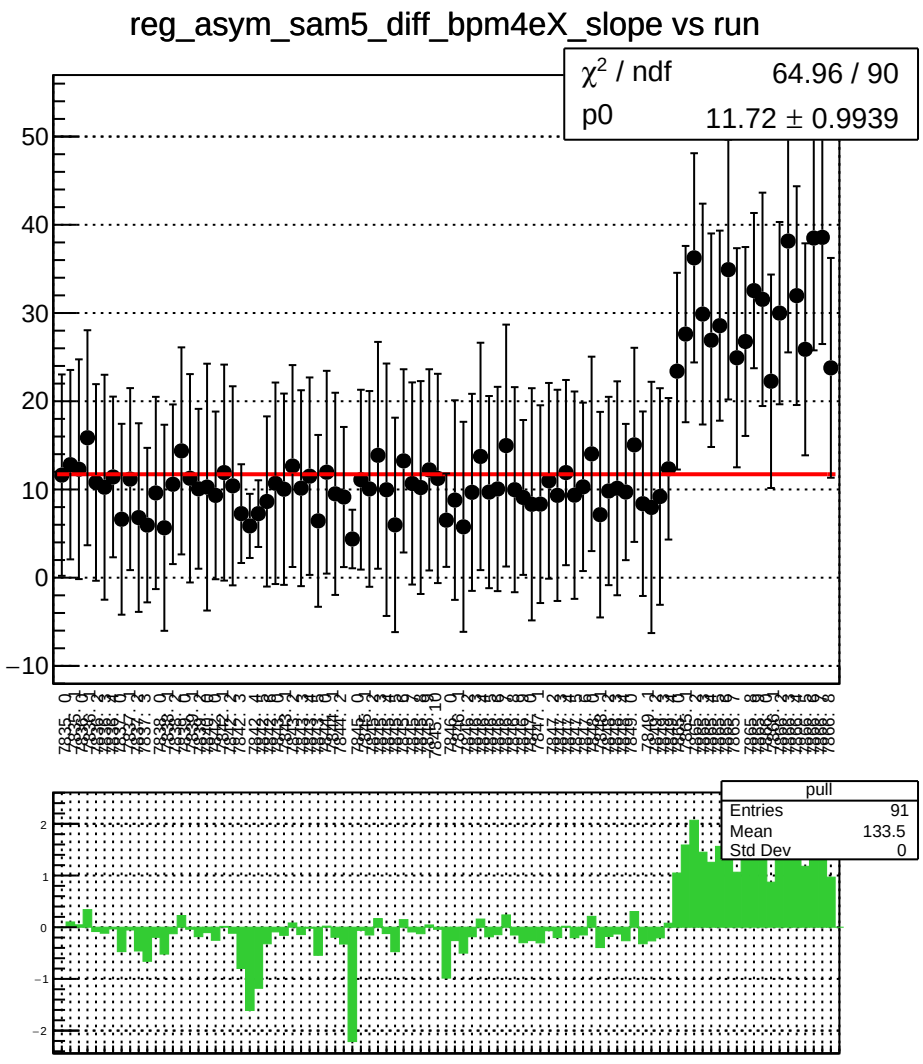

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 16.23 / 90
p0 100.2 ± 9.11
pull
Entries 91
Mean 132.9
Std Dev 0

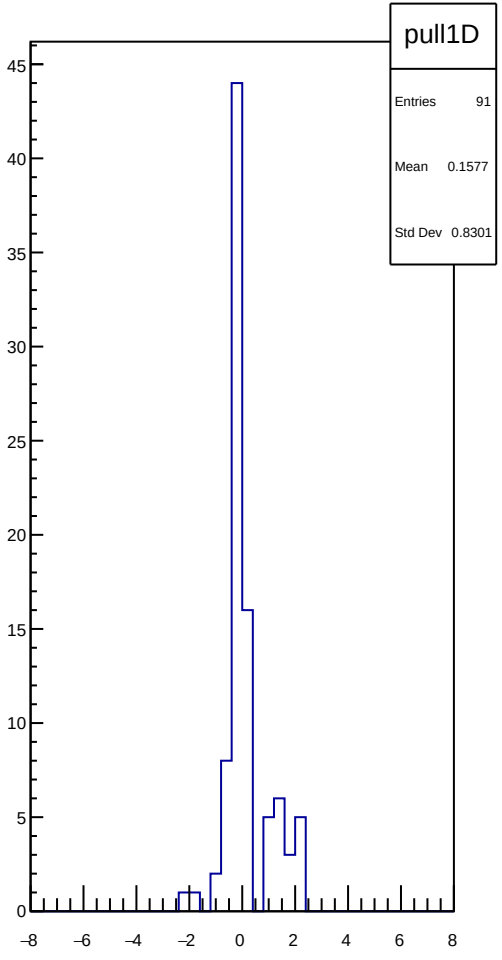

pull1D
Entries 91
Mean −0.0559
Std Dev 0.4186

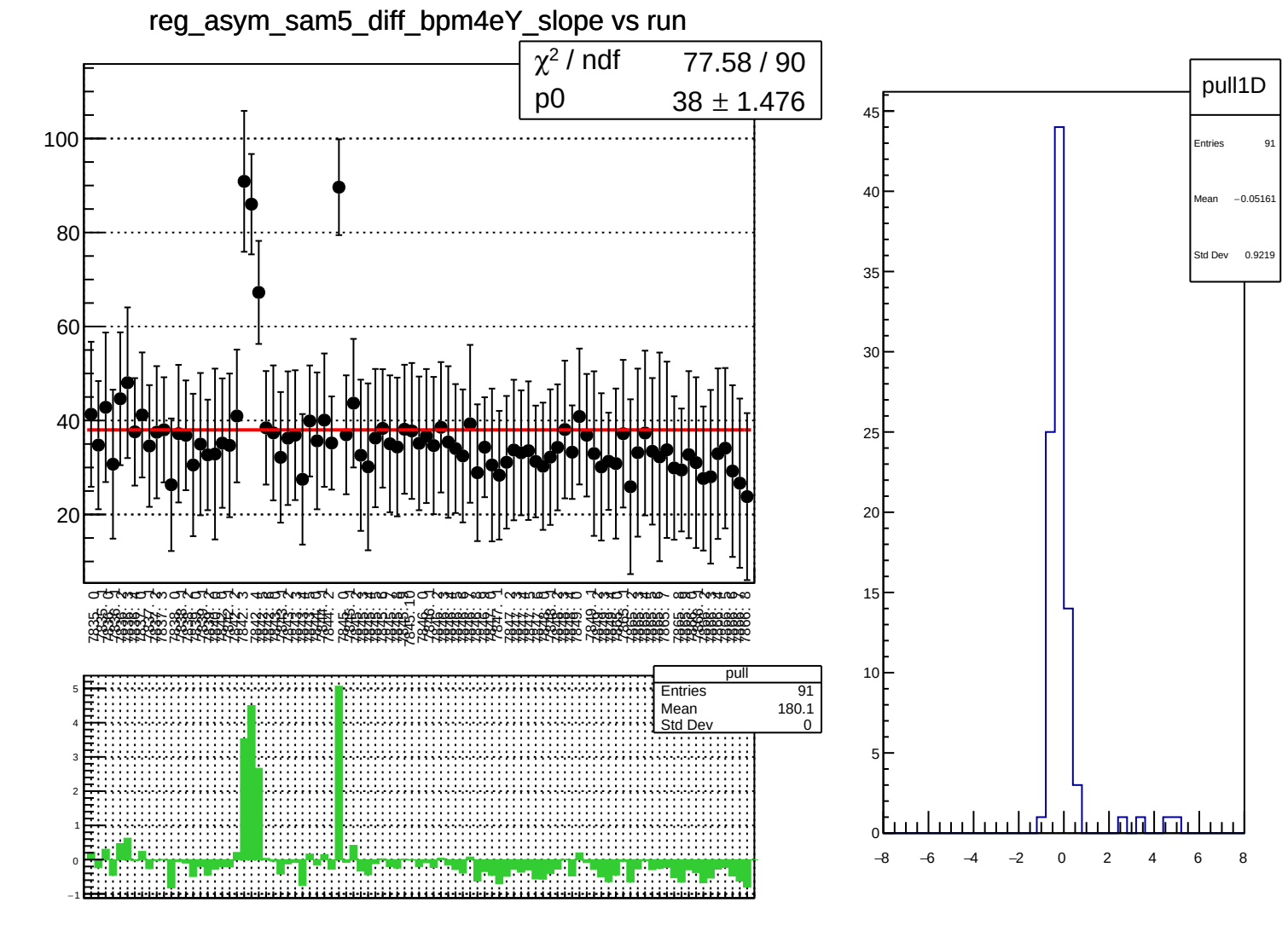

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 35.45 / 90
p0 −3.851 ± 0.2721
pull
Entries 91
Mean 271
Std Dev 0
pull1D
Entries 91
Mean −0.0499
Std Dev 0.6222

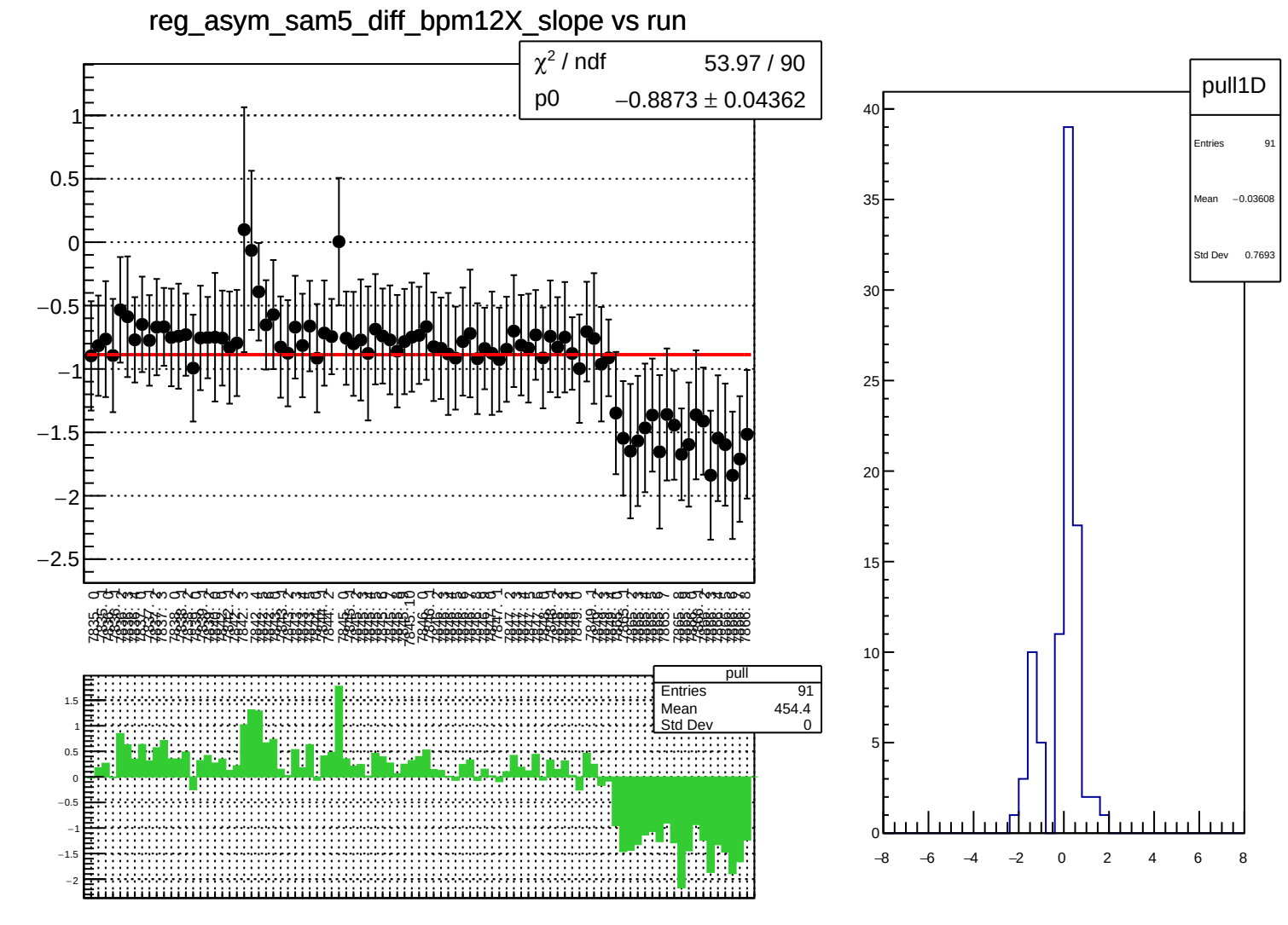

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 68.23 / 90
p0 −5.686 ± 1.119
pull
Entries 91
Mean 137.5
Std Dev 0
pull1D
Entries 91
Mean −0.1568
Std Dev 0.8516

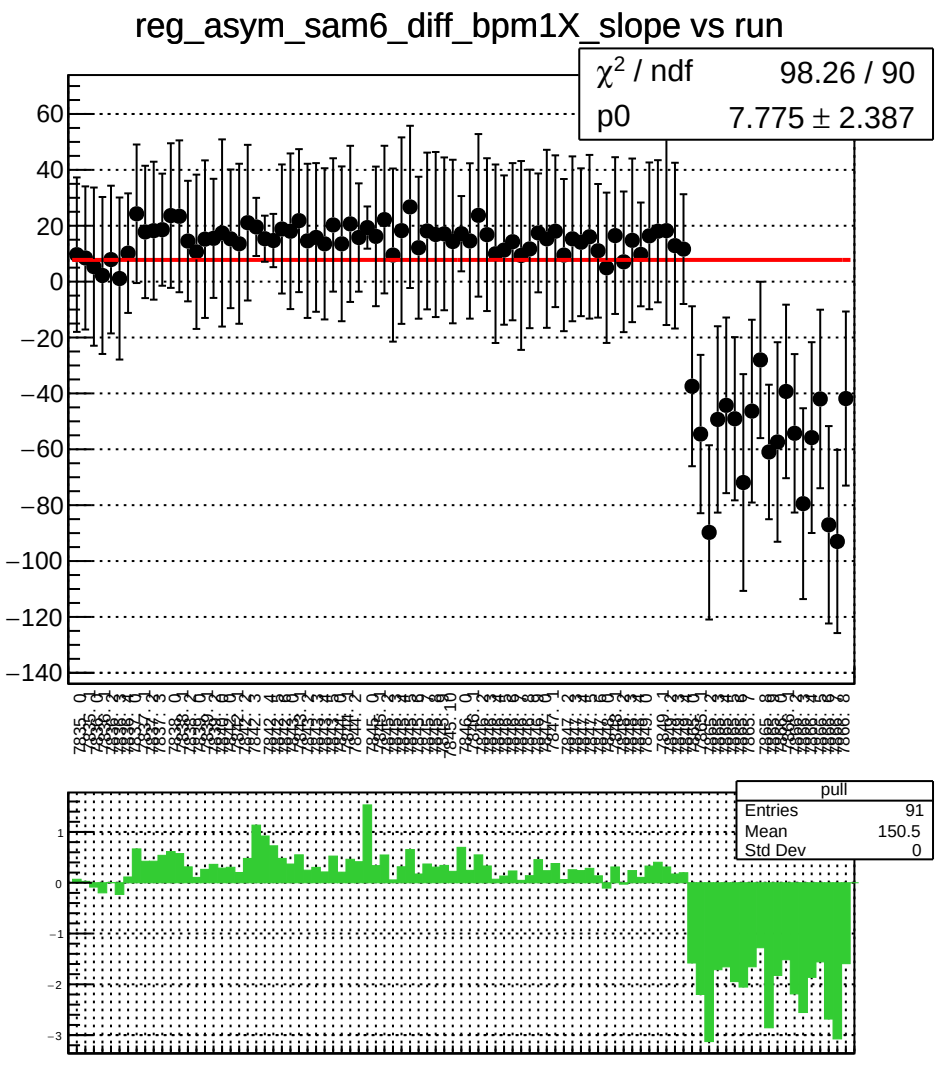

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 134.1 / 90
p0 105.2 ± 1.29
pull
Entries 91
Mean 128.4
Std Dev 0
pull1D
Entries 91
Mean 0.1204
Std Dev 1.208

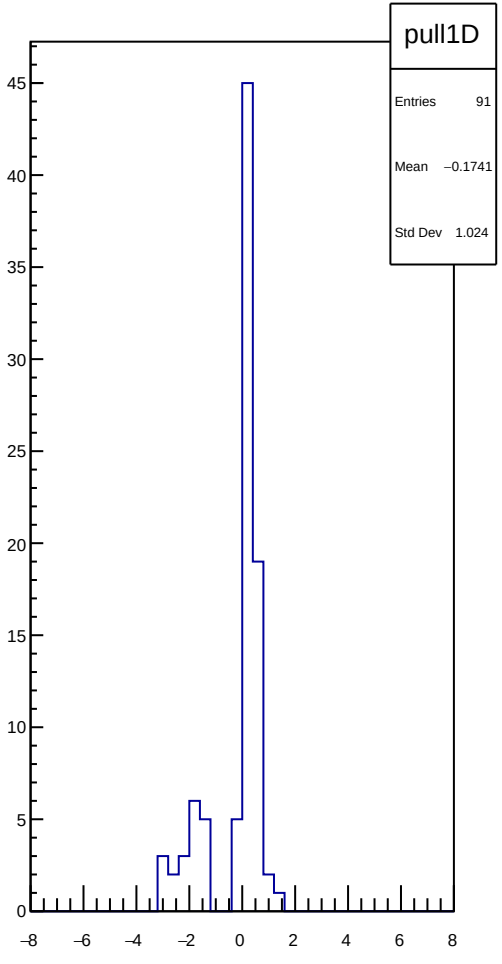

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 64.96 / 90
p0 11.72 ± 0.9939
pull
Entries 91
Mean 133.5
Std Dev 0

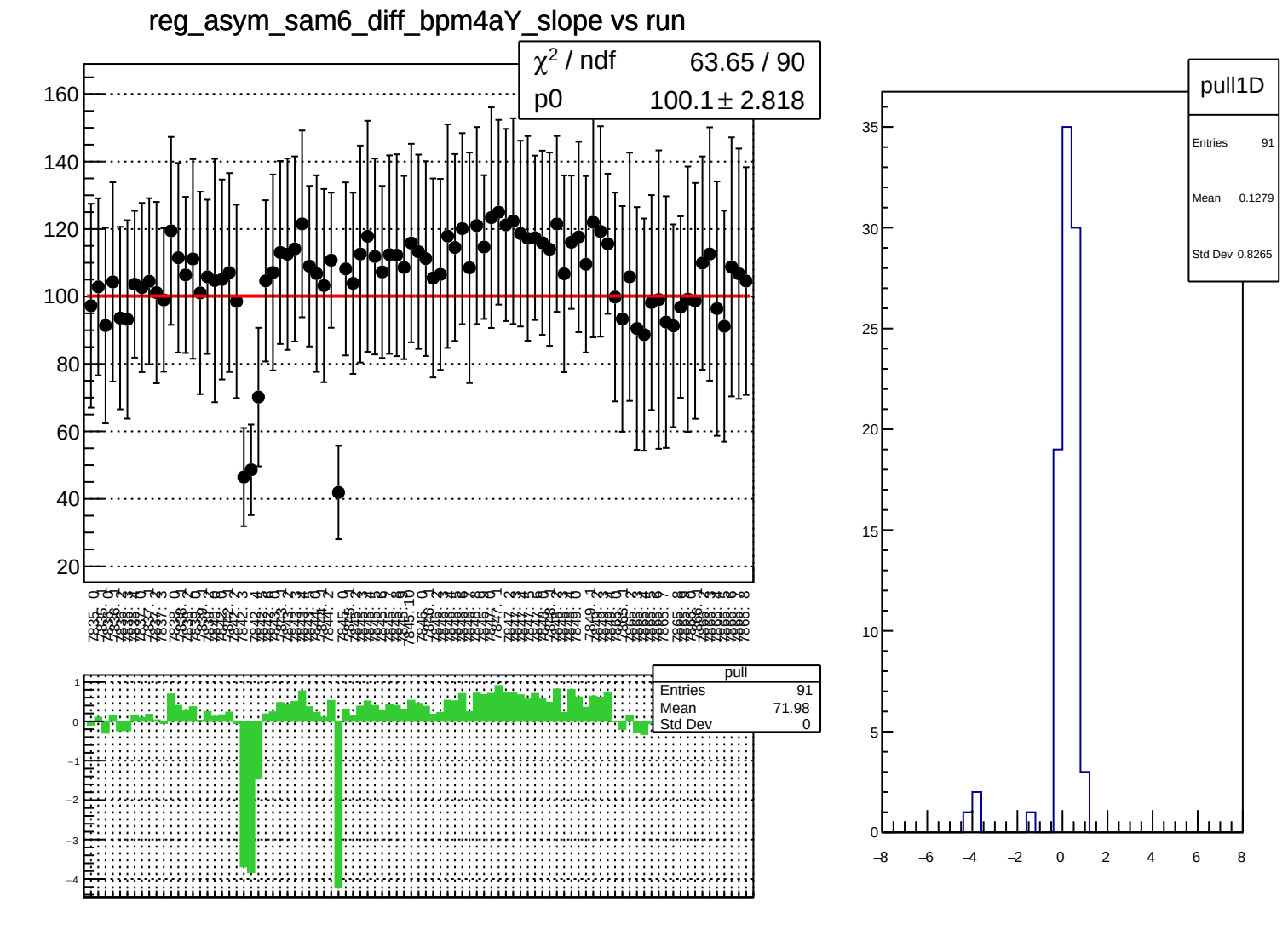

pull1D
Entries 91
Mean 0.1577
Std Dev 0.8301

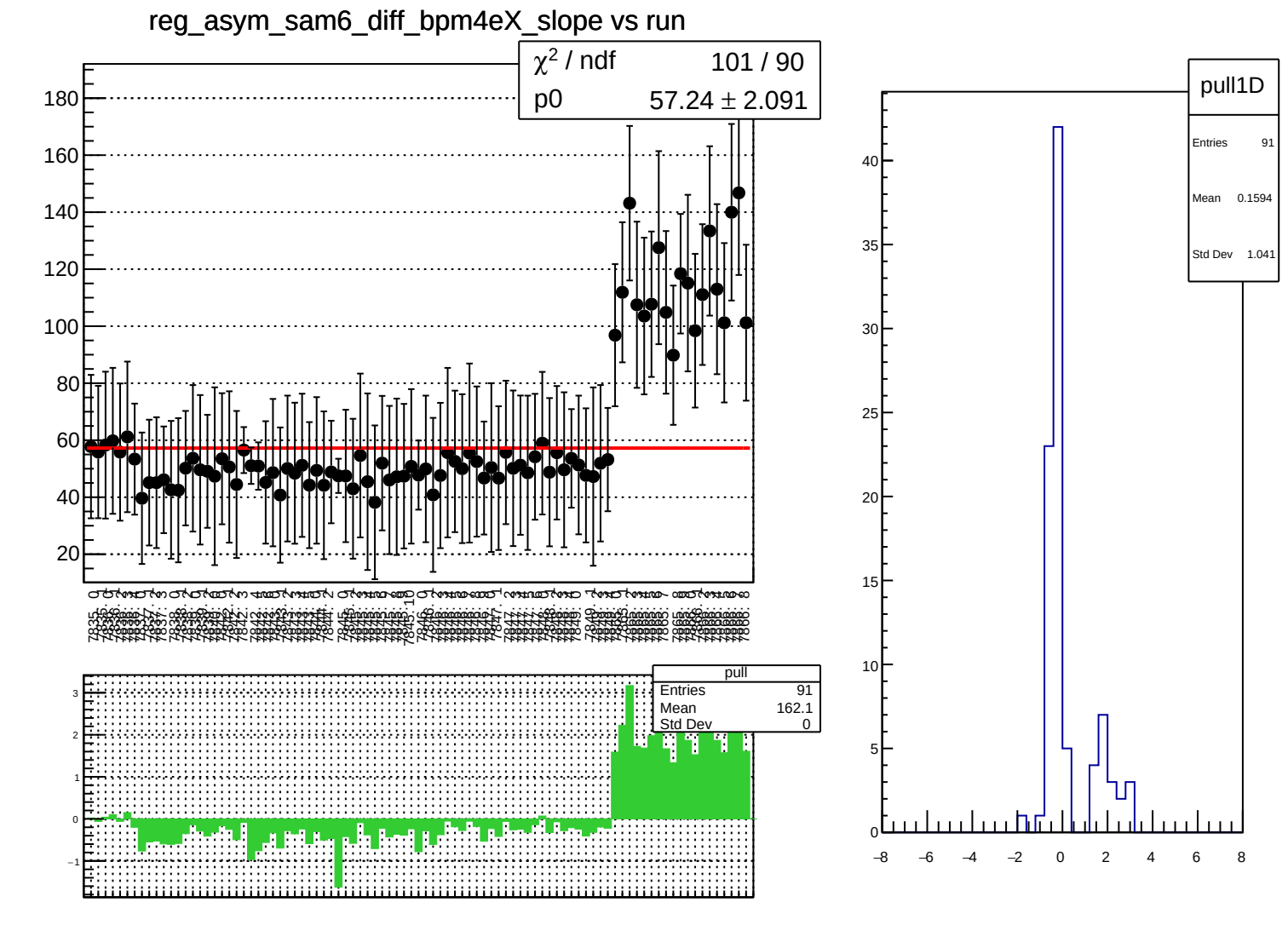

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 77.58 / 90
p0 38 ± 1.476
pull
Entries 91
Mean 180.1
Std Dev 0
pull1D
Entries 91
Mean −0.05161
Std Dev 0.9219

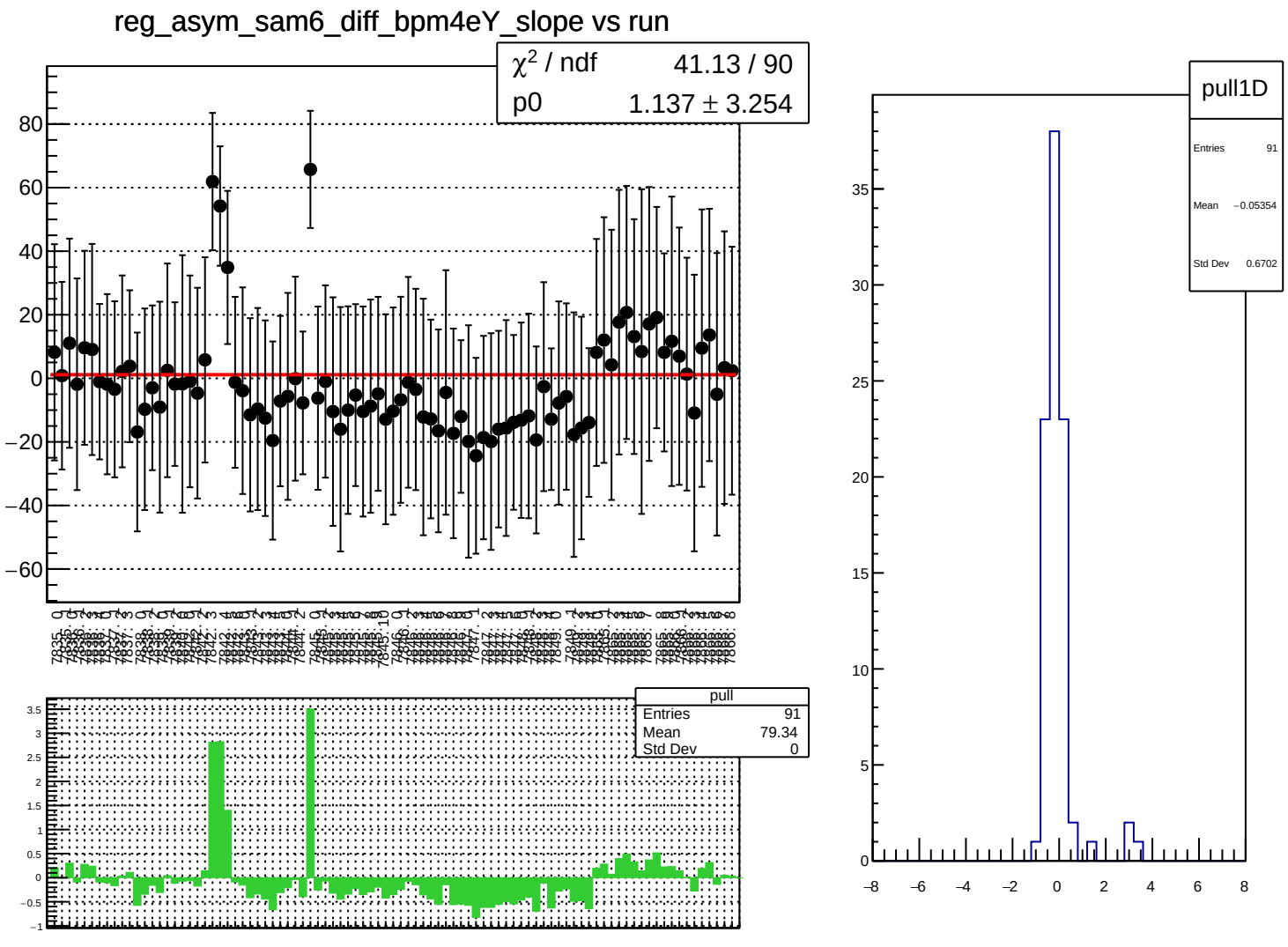

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 53.97 / 90
p0 −0.8873 ± 0.04362
pull
Entries 91
Mean 454.4
Std Dev 0
pull1D
Entries 91
Mean −0.03608
Std Dev 0.7693

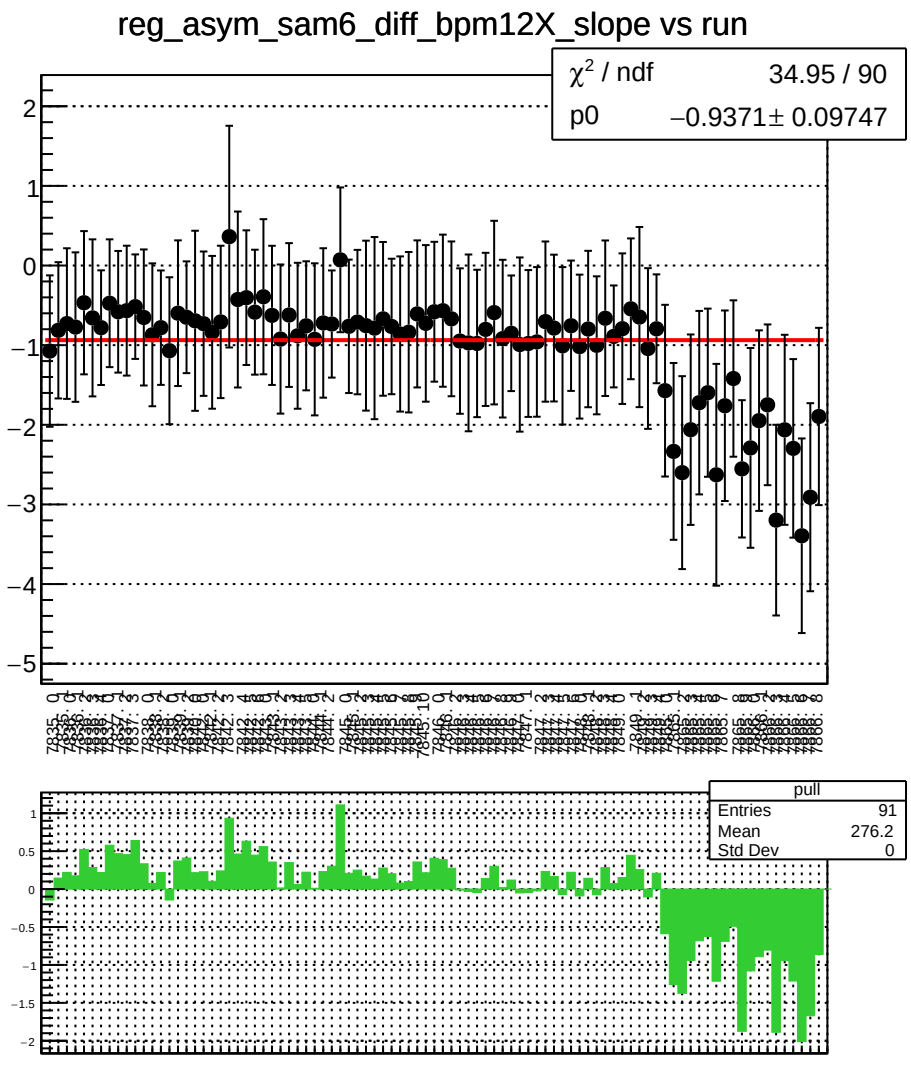

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 98.26 / 90
p0 7.775 ± 2.387
pull
Entries 91
Mean 150.5
Std Dev 0

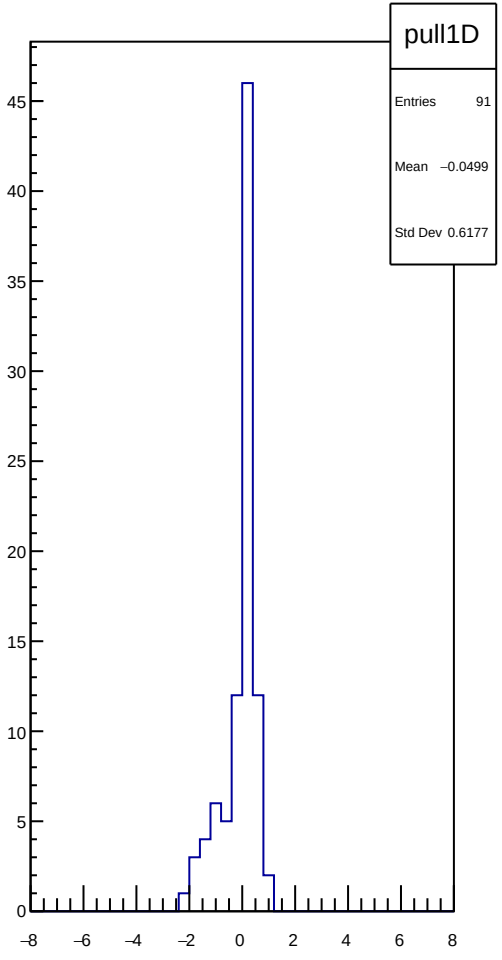

pull1D
Entries 91
Mean −0.1741
Std Dev 1.024

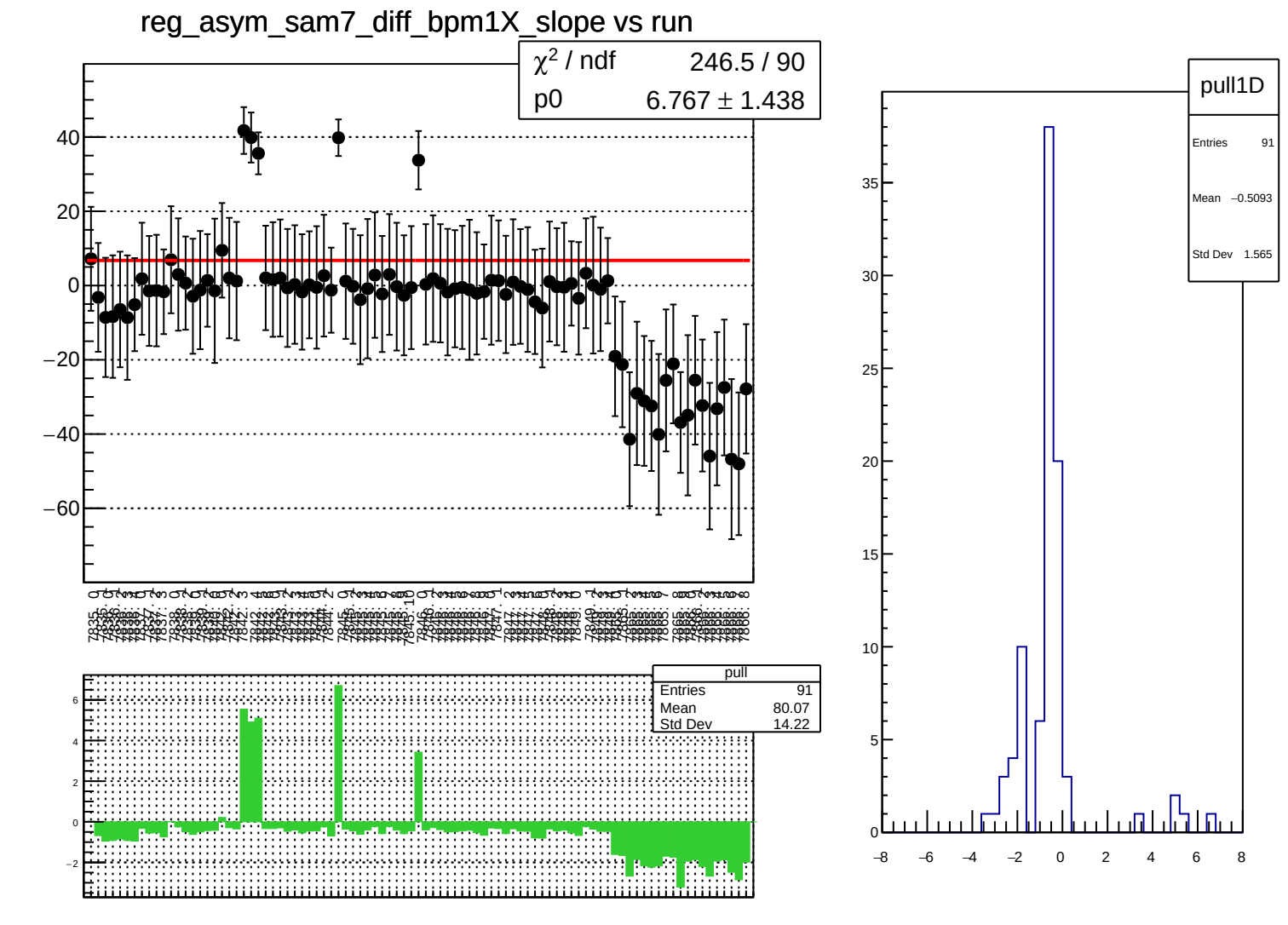

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 63.65 / 90
p0 100.1 ± 2.818
pull
Entries 91
Mean 71.98
Std Dev 0
pull1D
Entries 91
Mean 0.1279
Std Dev 0.8265

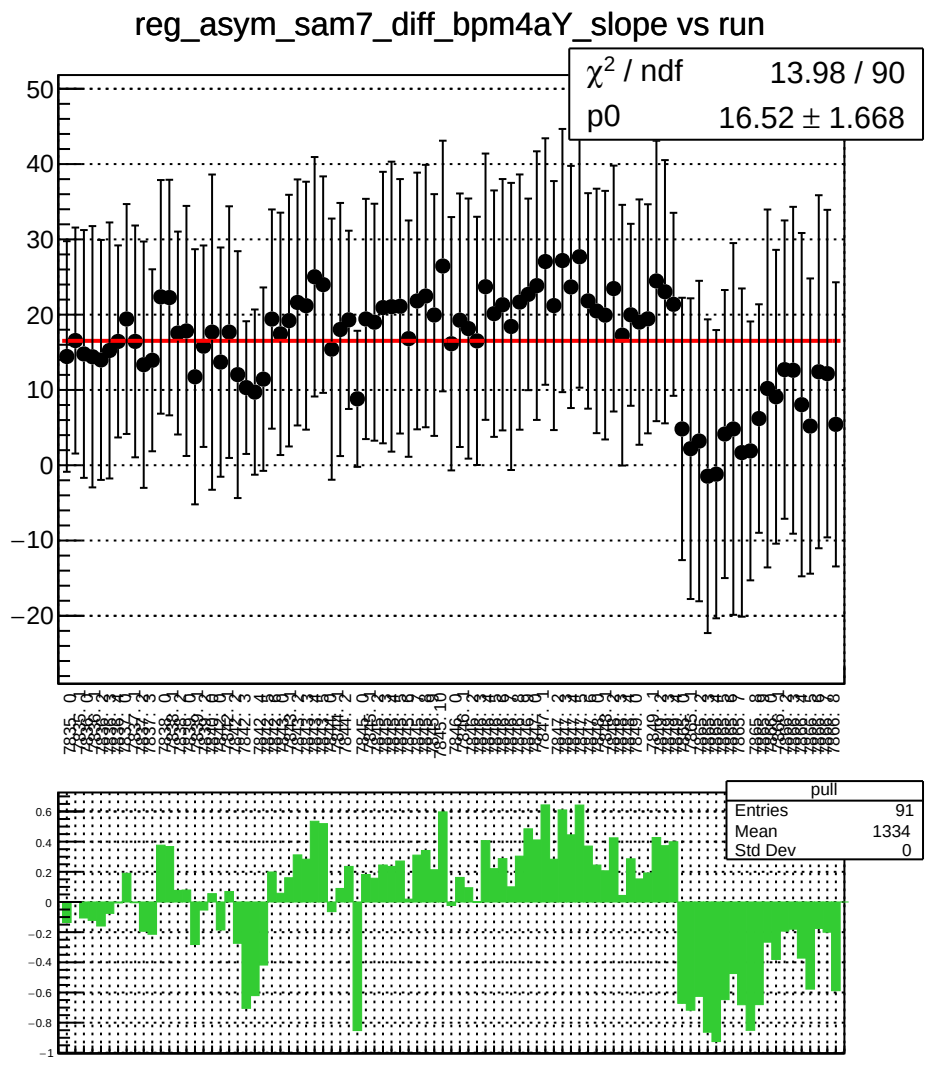

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 101 / 90
p0 57.24 ± 2.091
pull
Entries 91
Mean 162.1
Std Dev 0
pull1D
Entries 91
Mean 0.1594
Std Dev 1.041

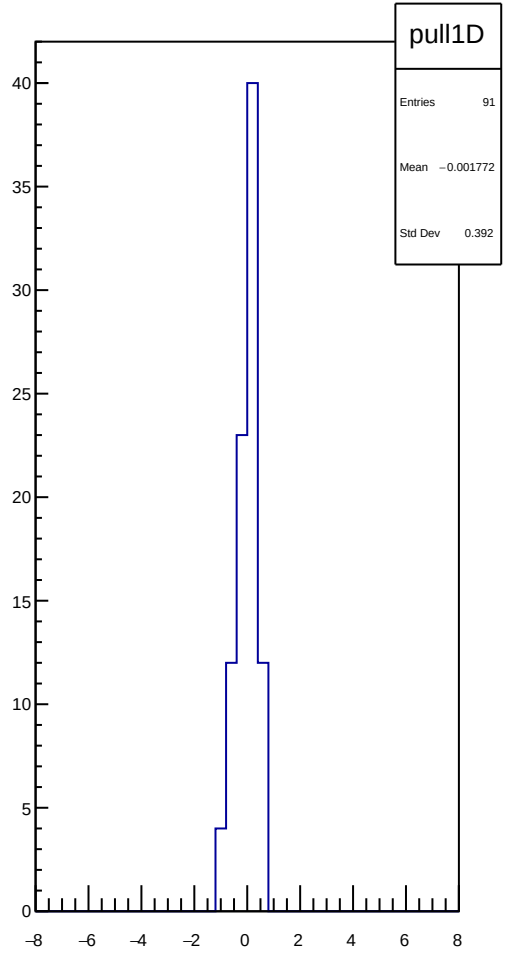

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 41.13 / 90
p0 1.137 ± 3.254
pull
Entries 91
Mean 79.34
Std Dev 0
pull1D
Entries 91
Mean −0.05354
Std Dev 0.6702

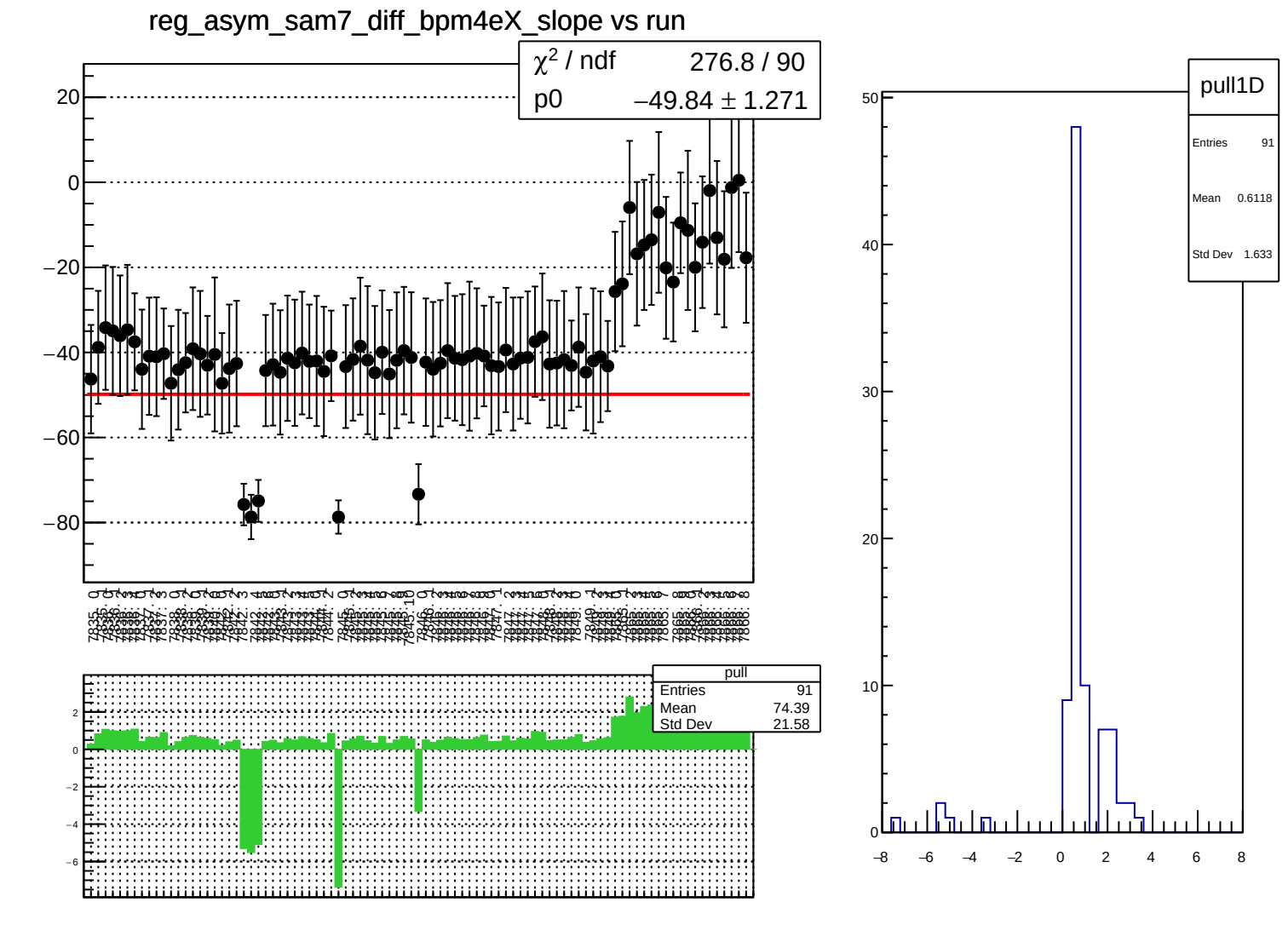

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 34.95 / 90
p0 −0.9371± 0.09747
pull
Entries 91
Mean 276.2
Std Dev 0

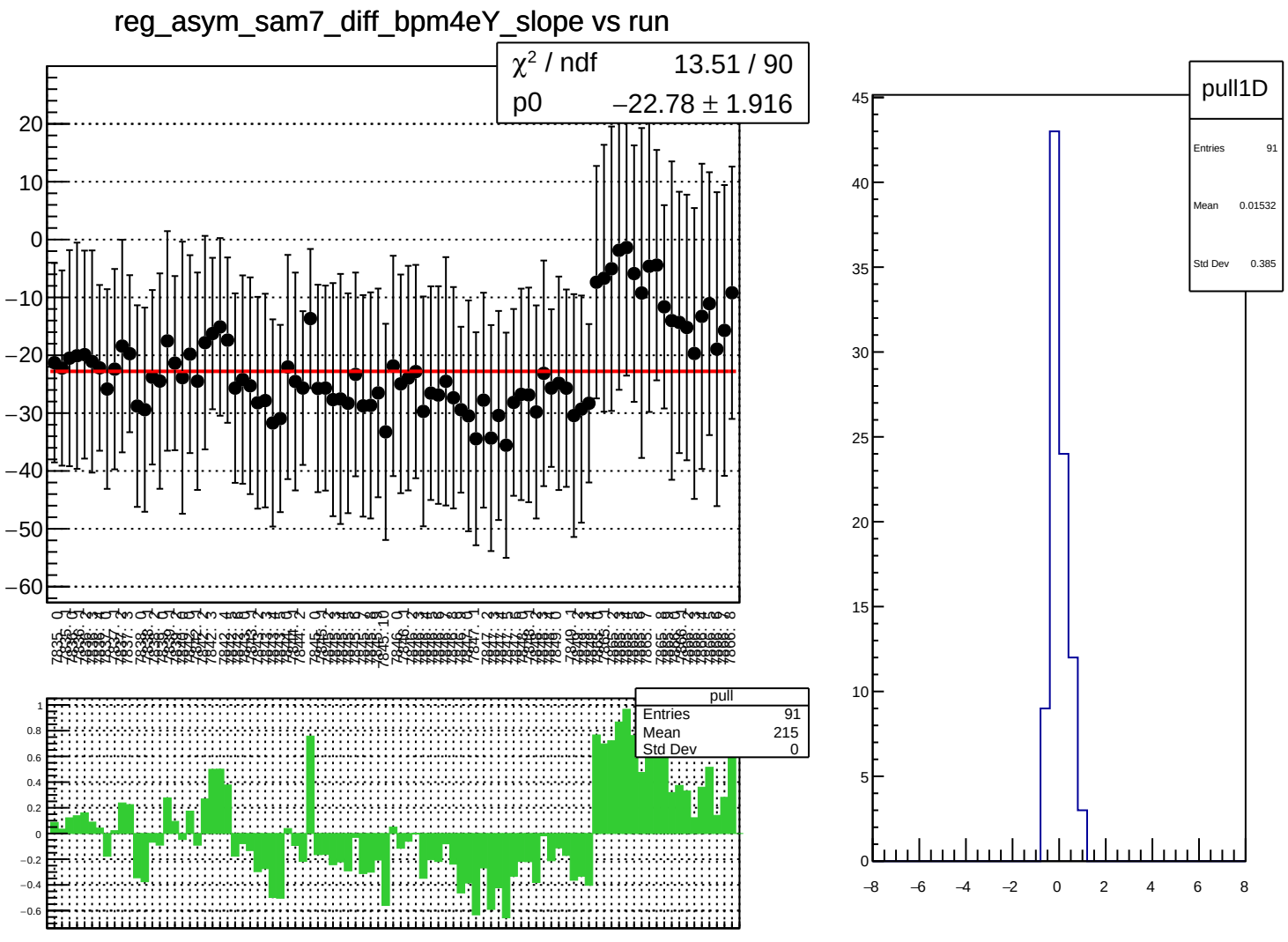

pull1D
Entries 91
Mean −0.0499
Std Dev 0.6177

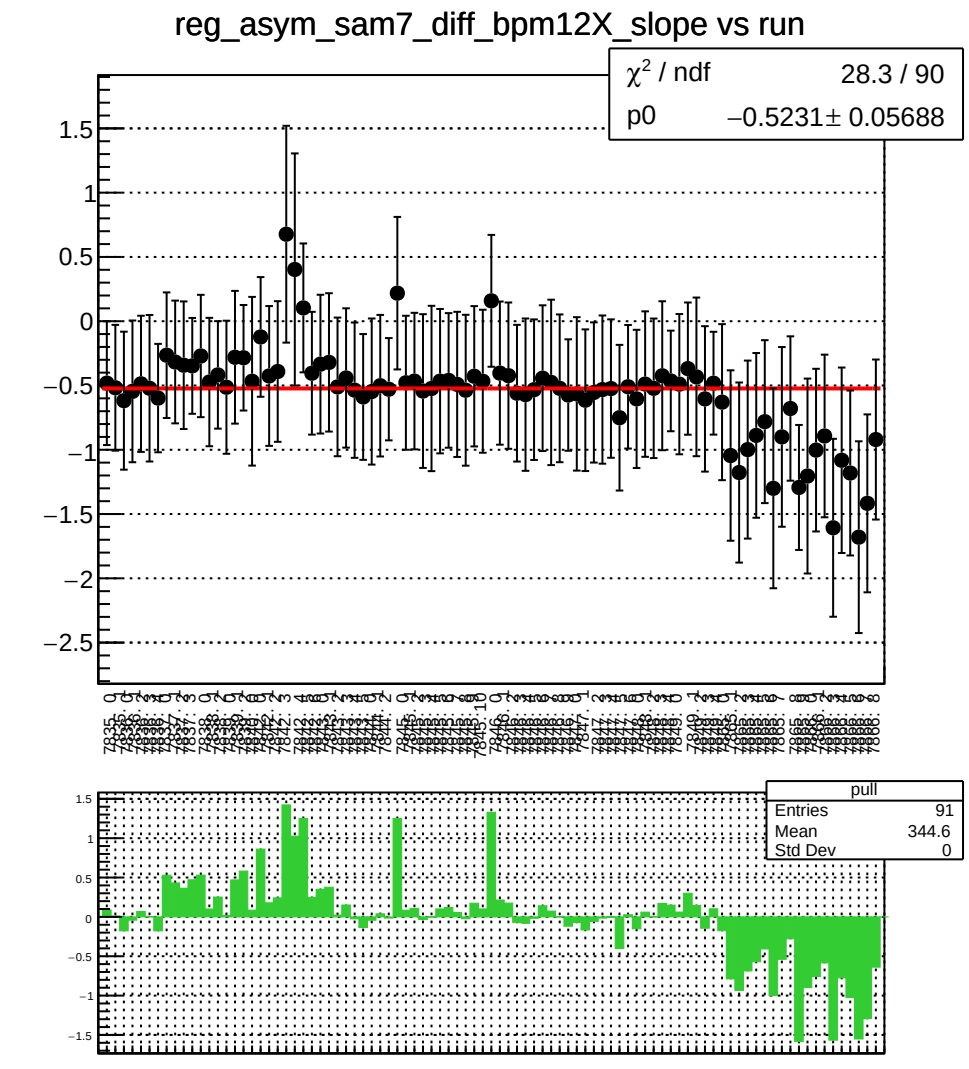

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 246.5 / 90
p0 6.767 ± 1.438
pull
Entries 91
Mean 80.07
Std Dev 14.22
pull1D
Entries 91
Mean −0.5093
Std Dev 1.565

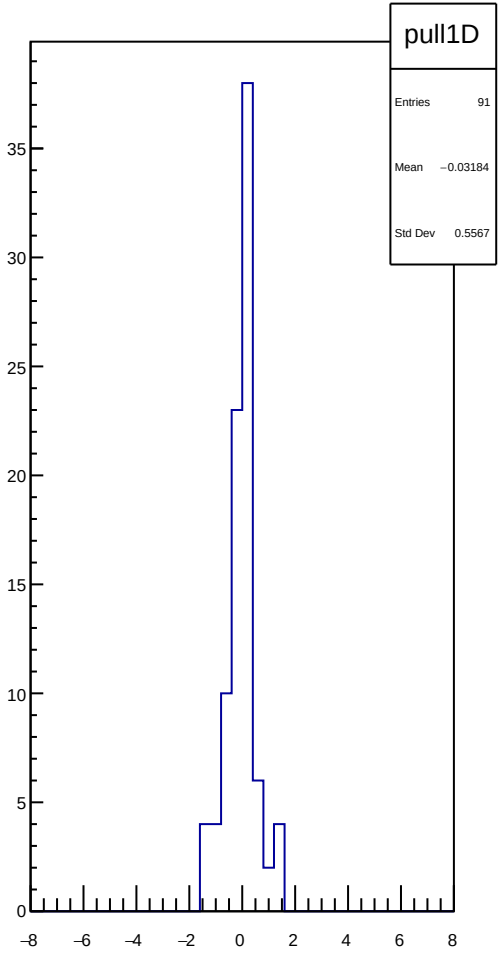

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 13.98 / 90
p0 16.52 ± 1.668
pull
Entries 91
Mean 1334
Std Dev 0

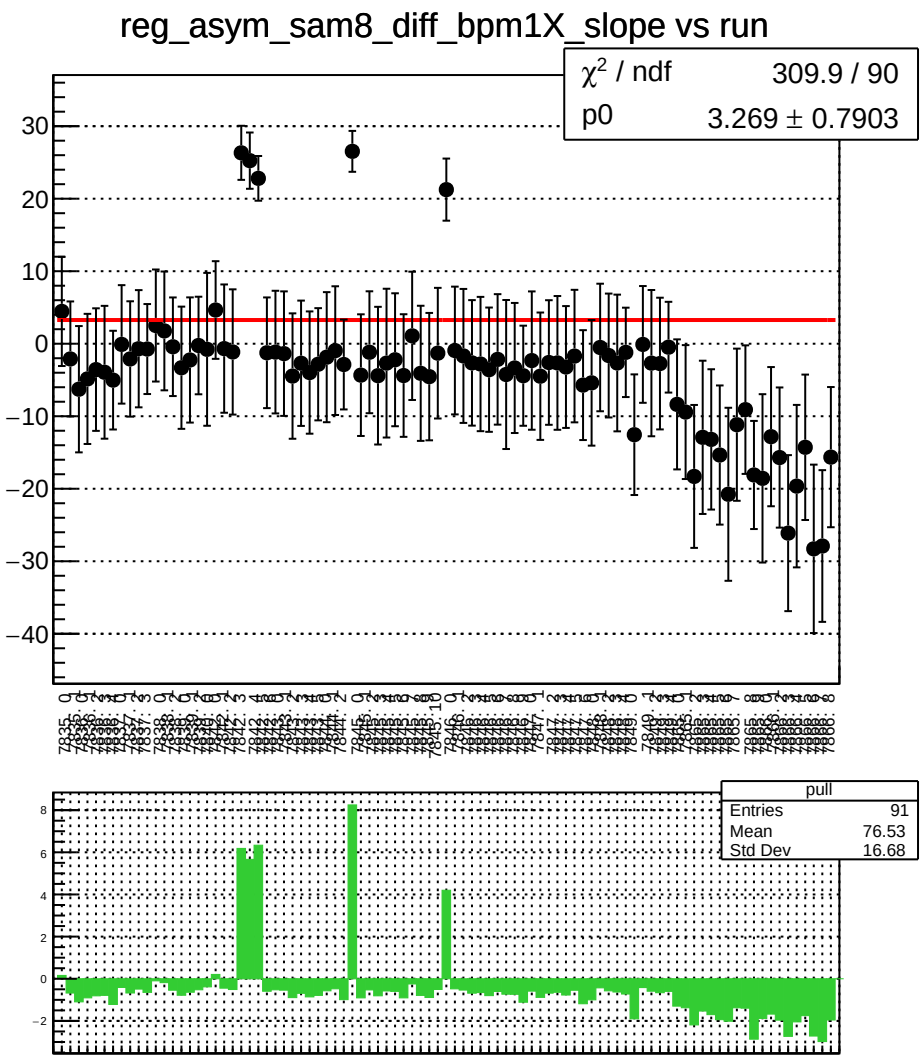

pull1D
Entries 91
Mean −0.001772
Std Dev 0.392

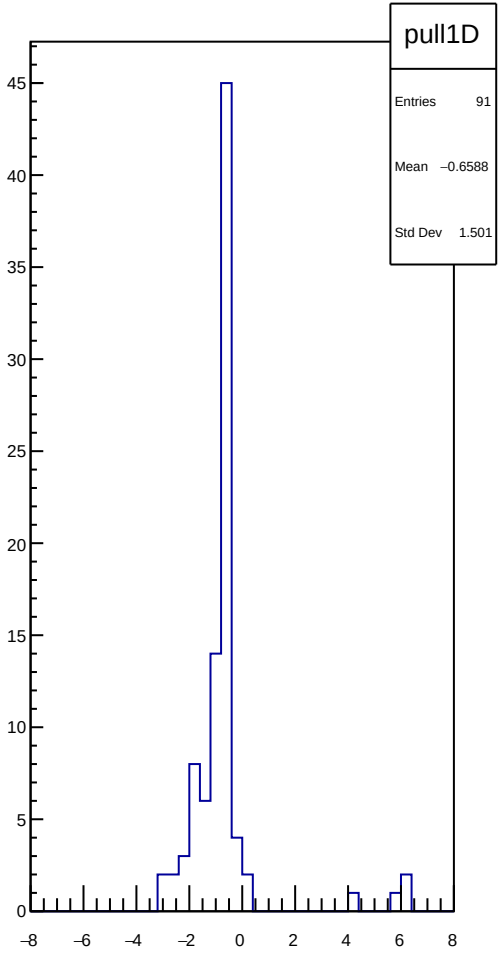

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 276.8 / 90
p0 −49.84 ± 1.271
pull
Entries 91
Mean 74.39
Std Dev 21.58
pull1D
Entries 91
Mean 0.6118
Std Dev 1.633

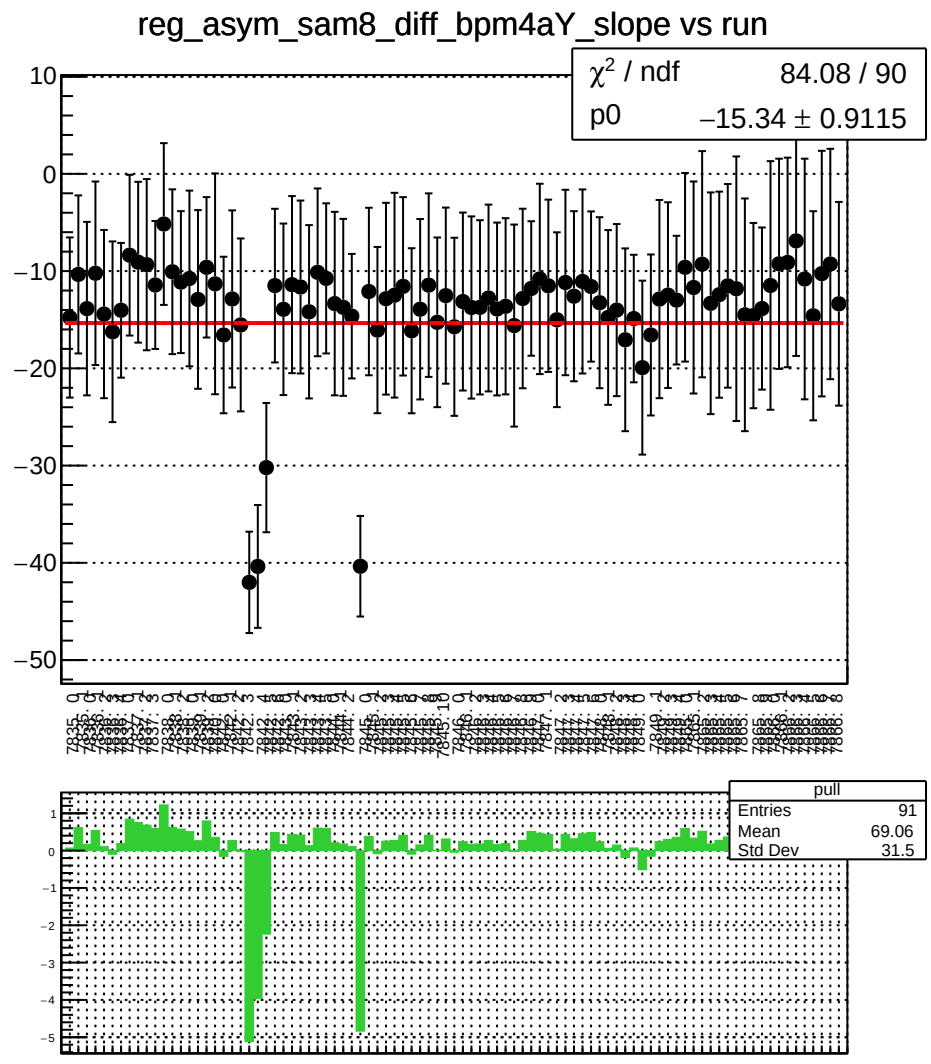

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 13.51 / 90
p0 −22.78 ± 1.916
pull
Entries 91
Mean 215
Std Dev 0
pull1D
Entries 91
Mean 0.01532
Std Dev 0.385

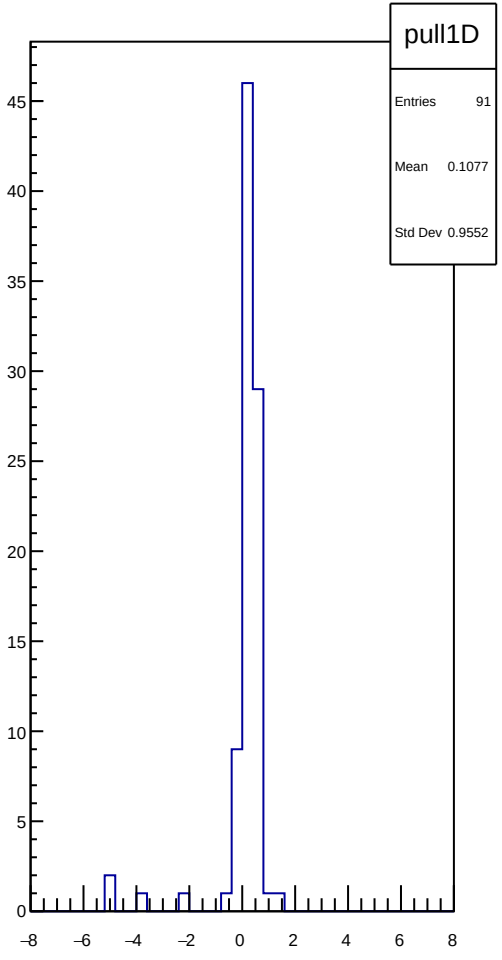

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 28.3 / 90
p0 −0.5231 ± 0.05688
pull
Entries 91
Mean 344.6
Std Dev 0

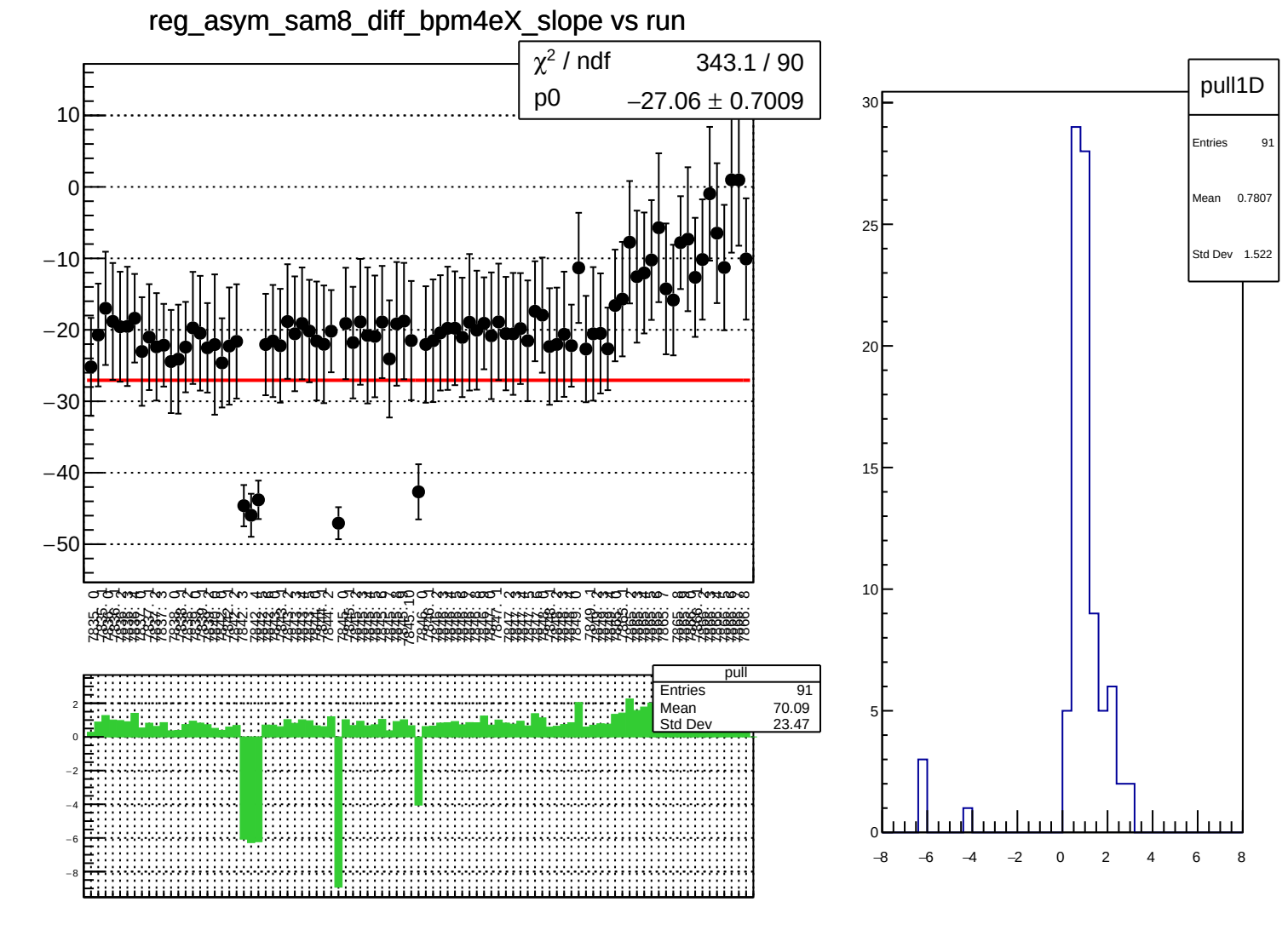

pull1D
Entries 91
Mean −0.03184
Std Dev 0.5567

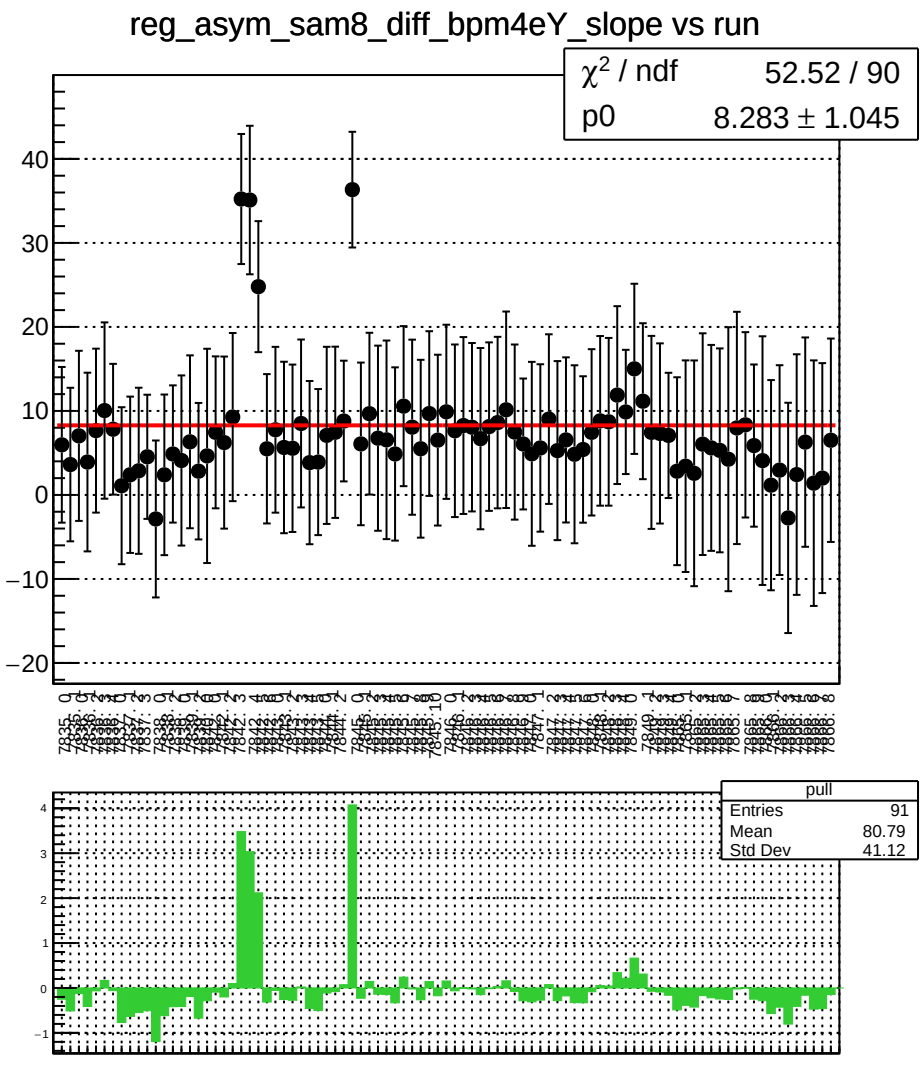

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 309.9 / 90
p0 3.269 ± 0.7903
pull
Entries 91
Mean 76.53
Std Dev 16.68

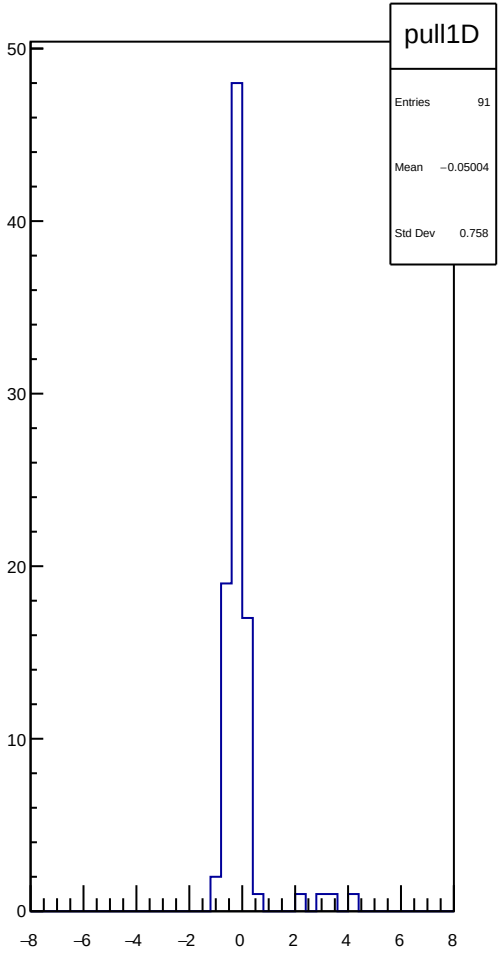

pull1D
Entries 91
Mean −0.6588
Std Dev 1.501

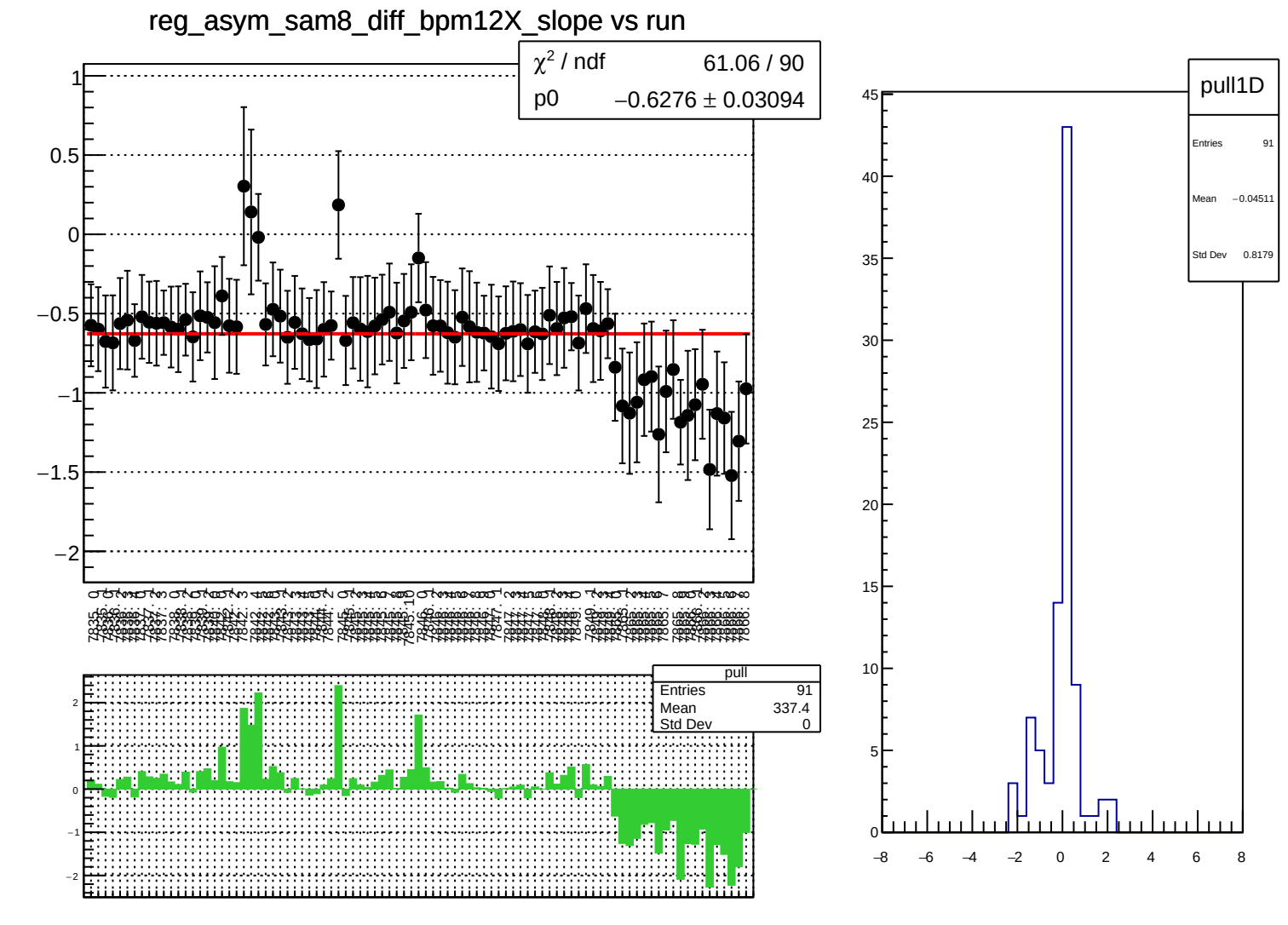

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 84.08 / 90
p0 −15.34 ± 0.9115
pull
Entries 91
Mean 69.06
Std Dev 31.5

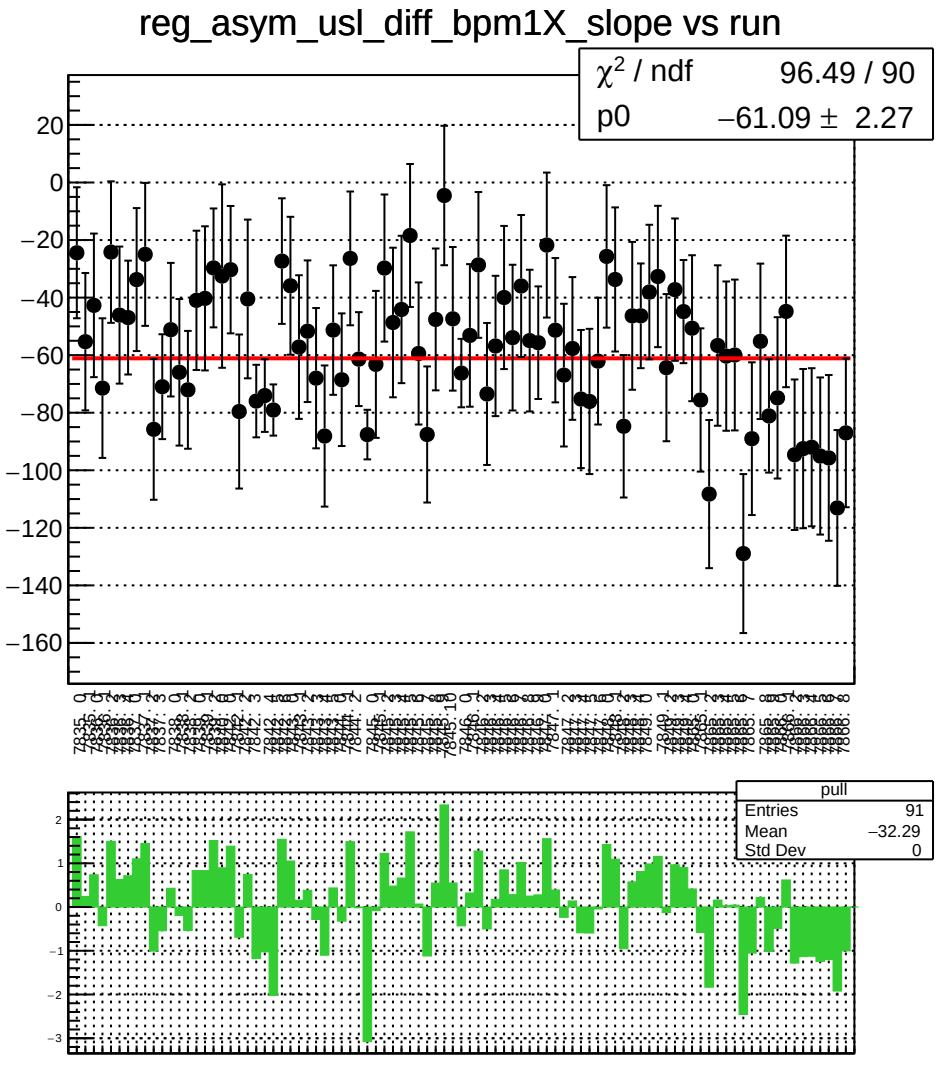

pull1D
Entries 91
Mean 0.1077
Std Dev 0.9552

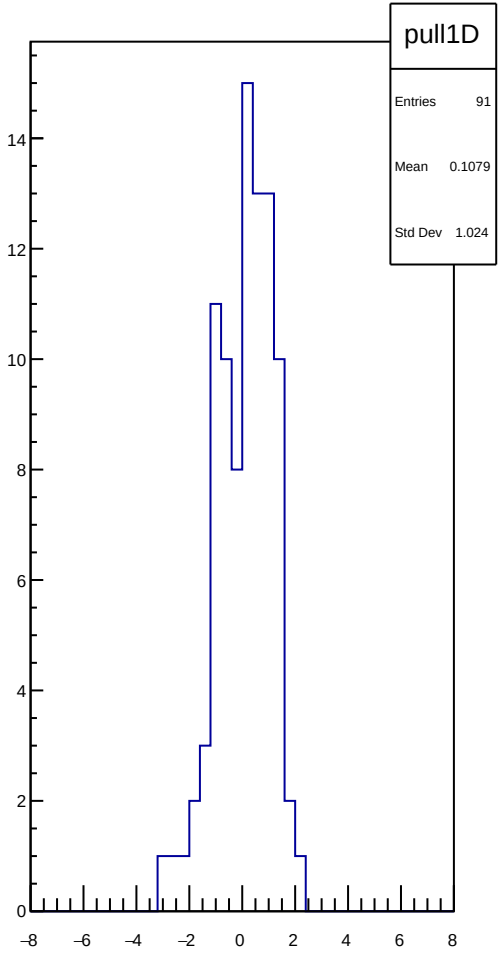

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 343.1 / 90
p0 −27.06 ± 0.7009
pull
Entries 91
Mean 70.09
Std Dev 23.47
pull1D
Entries 91
Mean 0.7807
Std Dev 1.522

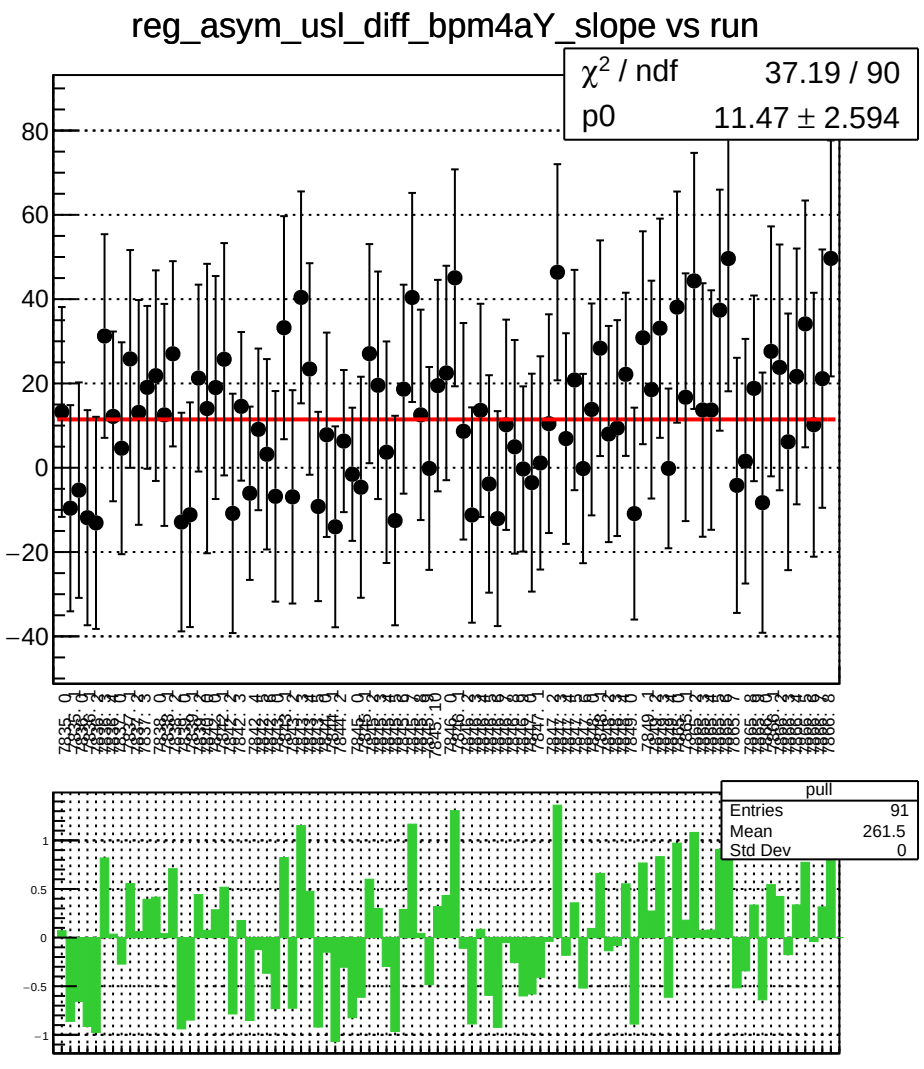

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 52.52 / 90
p0 8.283 ± 1.045
pull
Entries 91
Mean 80.79
Std Dev 41.12

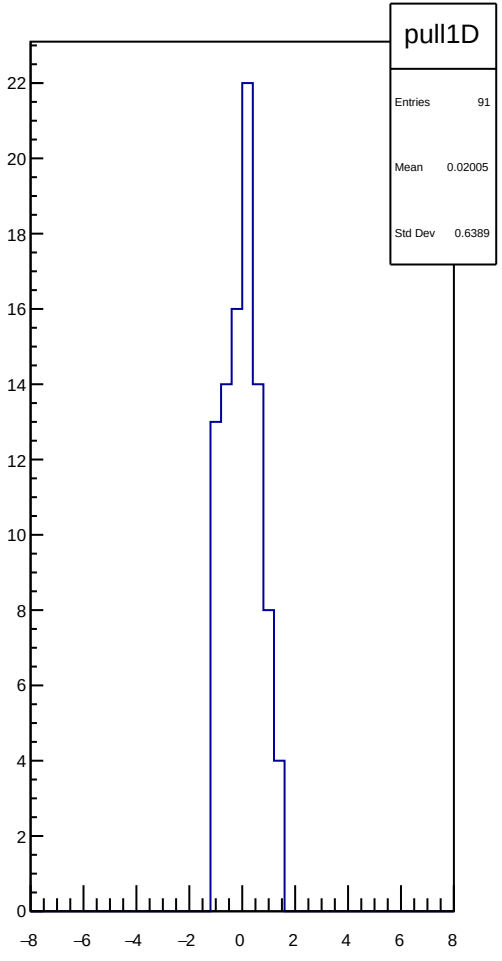

pull1D
Entries 91
Mean −0.05004
Std Dev 0.758

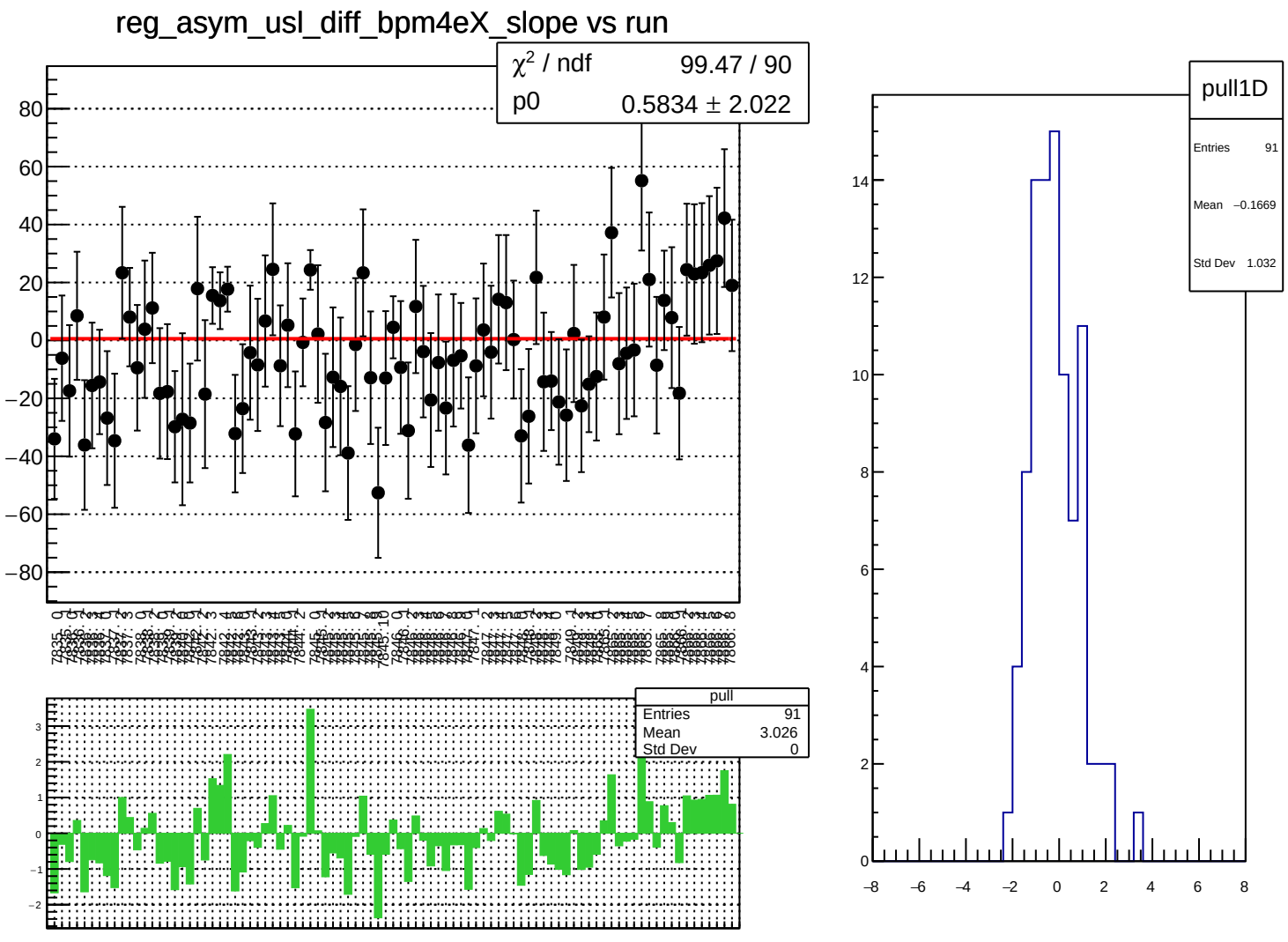

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 61.06 / 90
p0 −0.6276 ± 0.03094
pull
Entries 91
Mean 337.4
Std Dev 0
pull1D
Entries 91
Mean −0.04511
Std Dev 0.8179

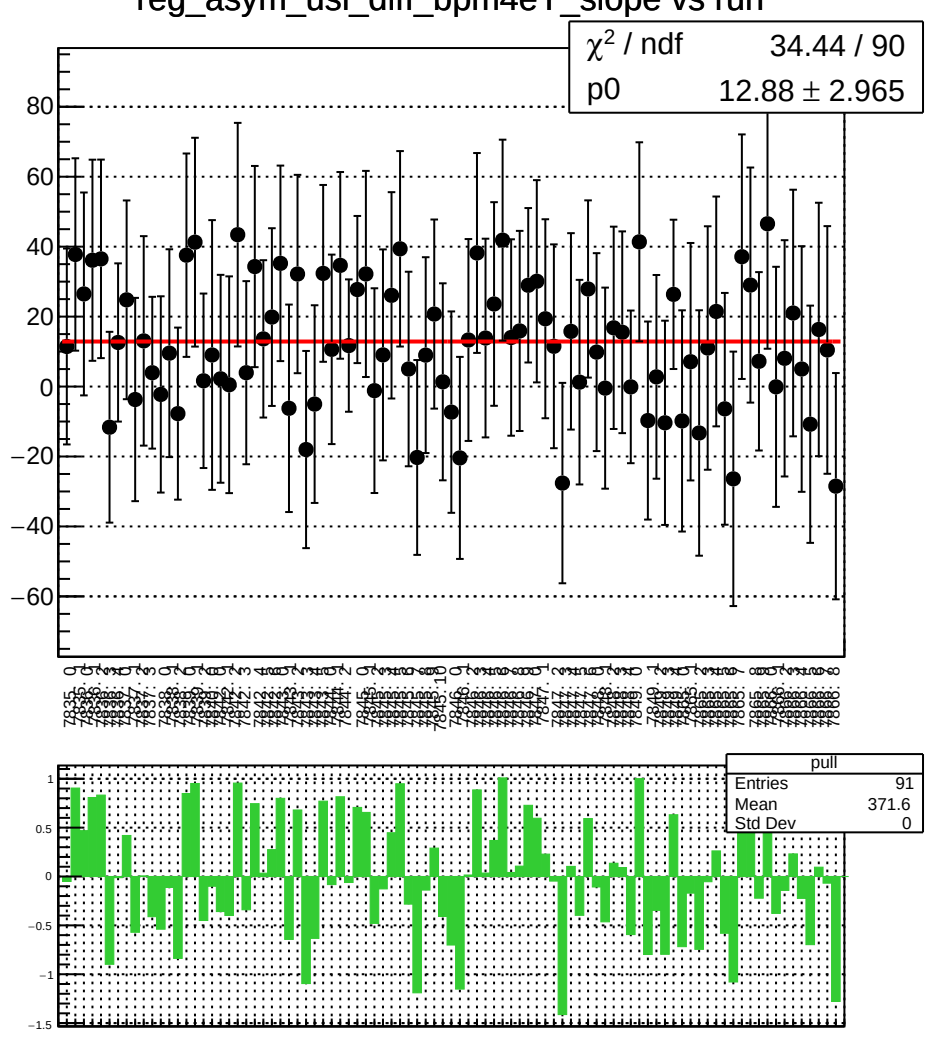

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 96.49 / 90
p0 −61.09 ± 2.27
pull
Entries 91
Mean −32.29
Std Dev 0

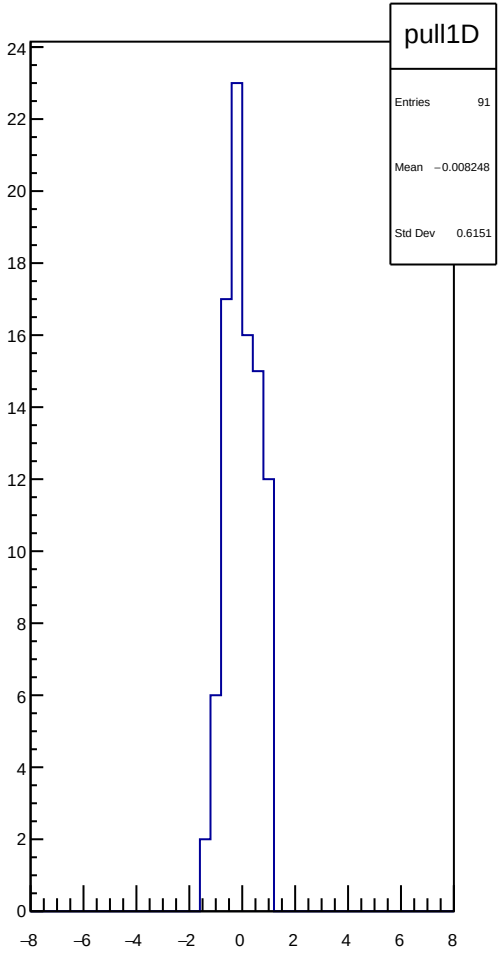

pull1D
Entries 91
Mean 0.1079
Std Dev 1.024

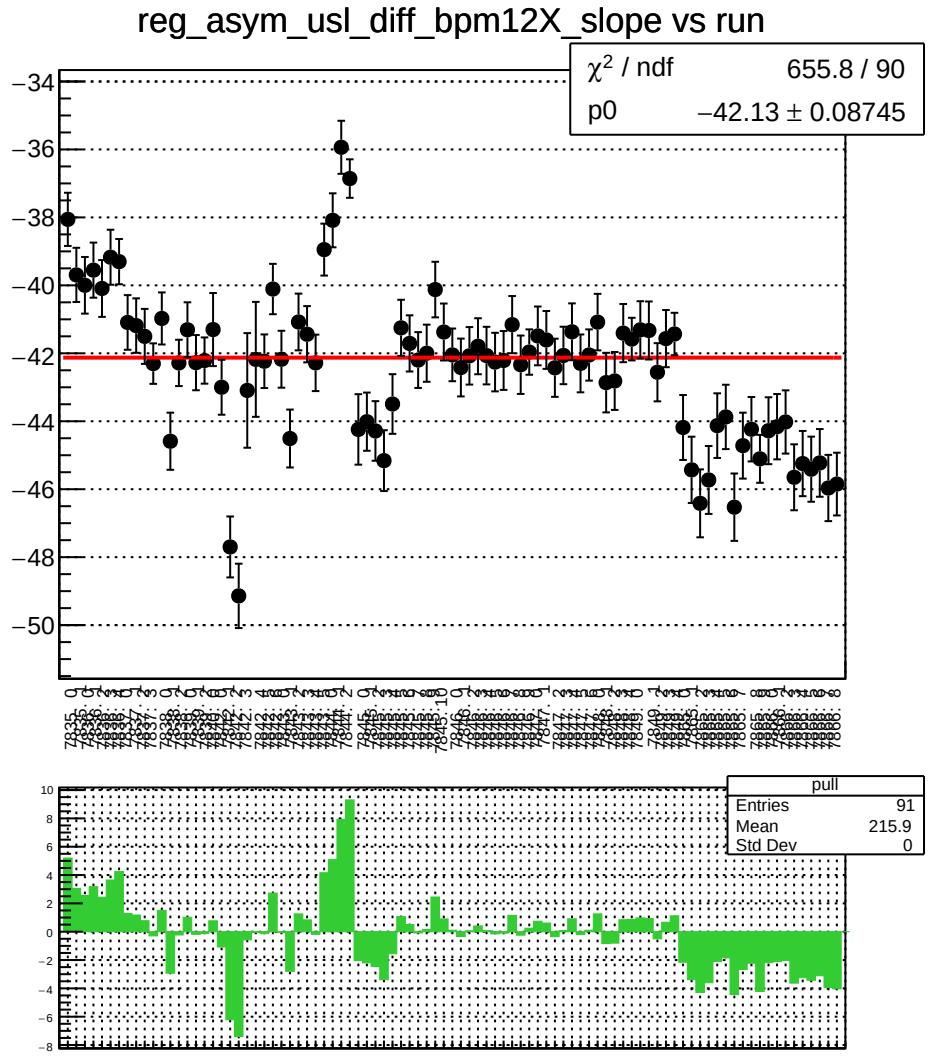

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 37.19 / 90
p0 11.47 ± 2.594
pull
Entries 91
Mean 261.5
Std Dev 0

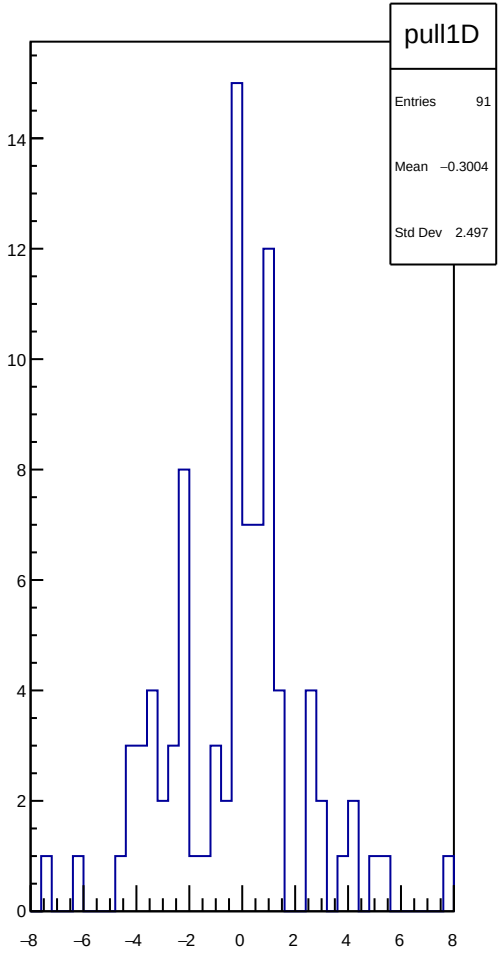

pull1D
Entries 91
Mean 0.02005
Std Dev 0.6389

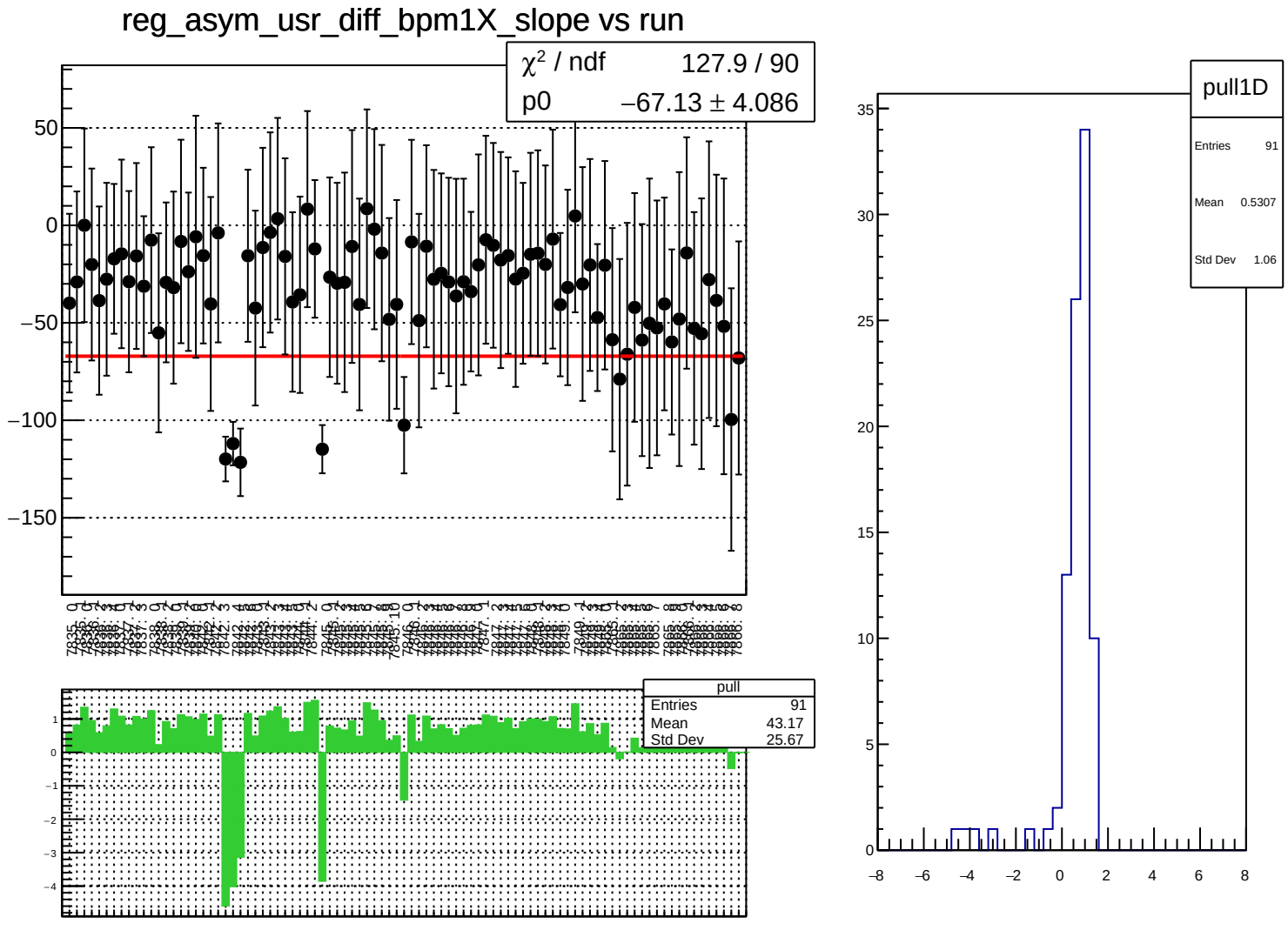

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 99.47 / 90
p0 0.5834 ± 2.022
pull
Entries 91
Mean 3.026
Std Dev 0
pull1D
Entries 91
Mean −0.1669
Std Dev 1.032

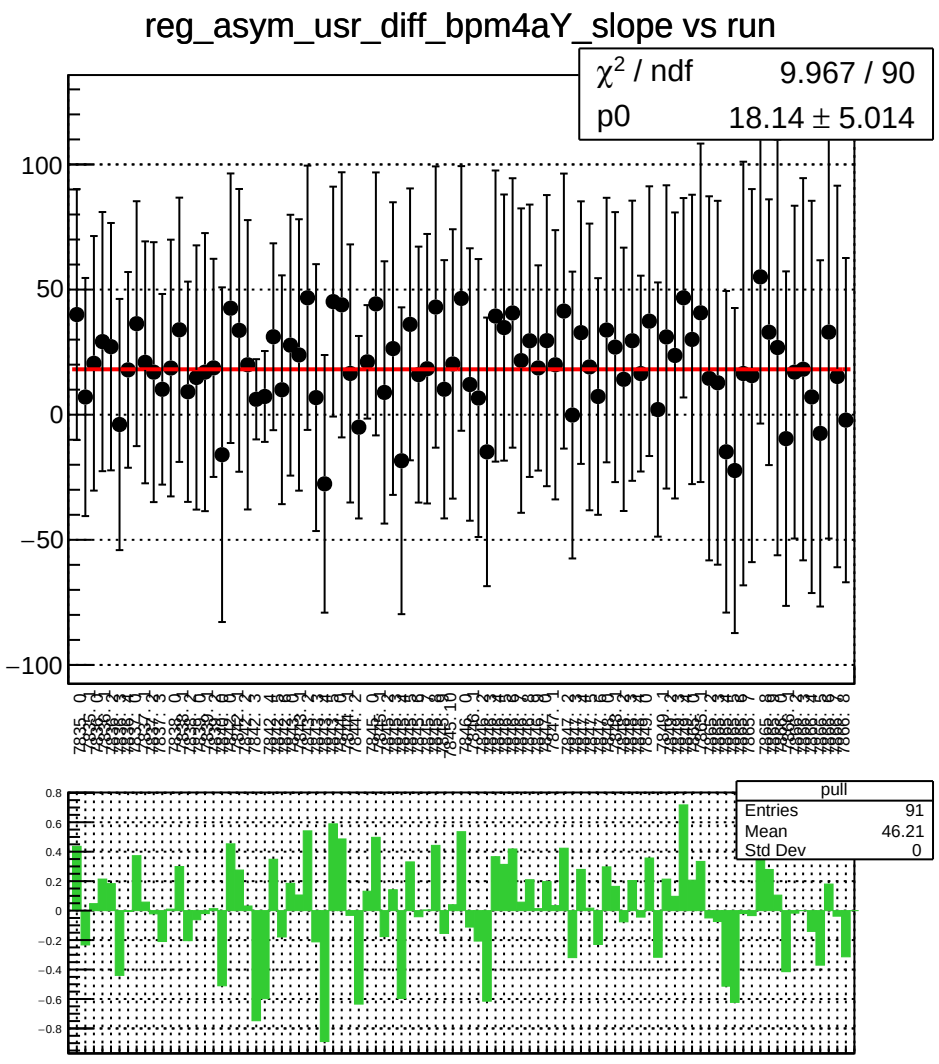

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 34.44 / 90
p0 12.88 ± 2.965
pull
Entries 91
Mean 371.6
Std Dev 0

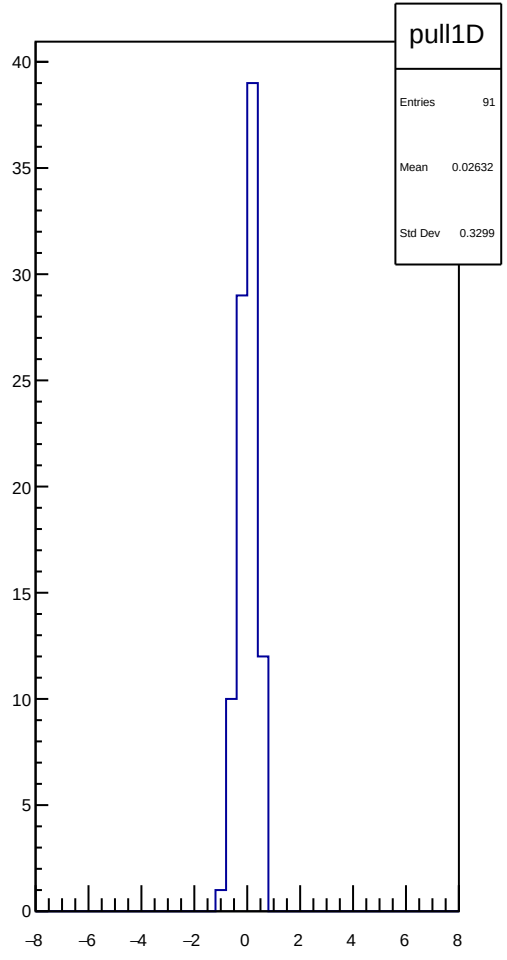

pull1D
Entries 91
Mean −0.008248
Std Dev 0.6151

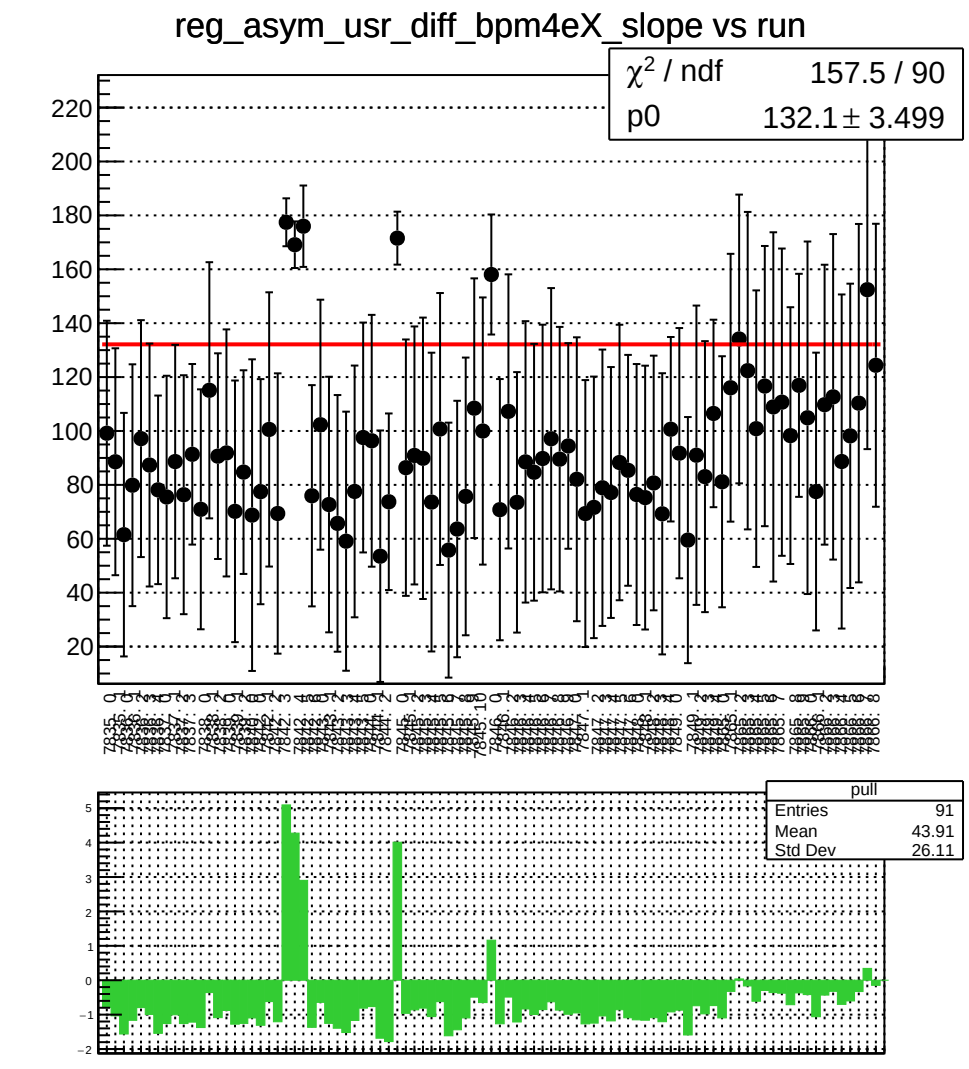

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 655.8 / 90
p0 −42.13 ± 0.08745
pull
Entries 91
Mean 215.9
Std Dev 0

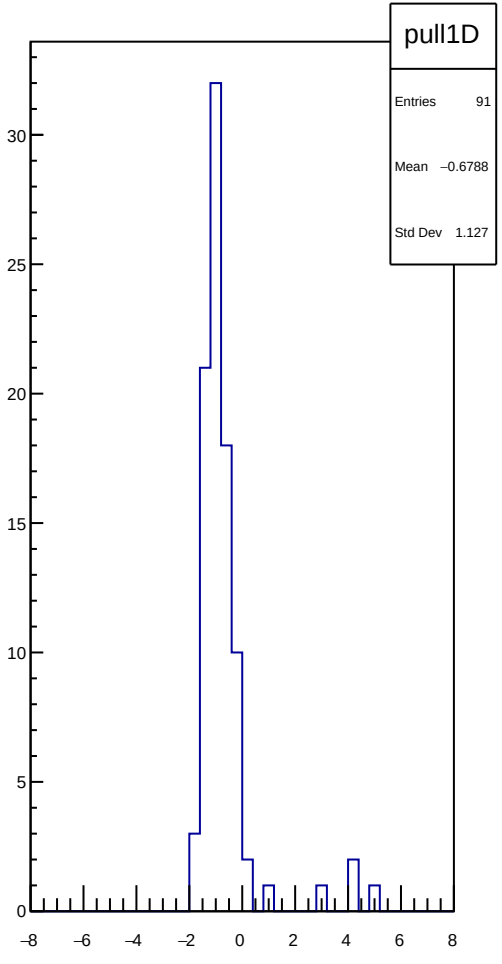

pull1D
Entries 91
Mean −0.3004
Std Dev 2.497

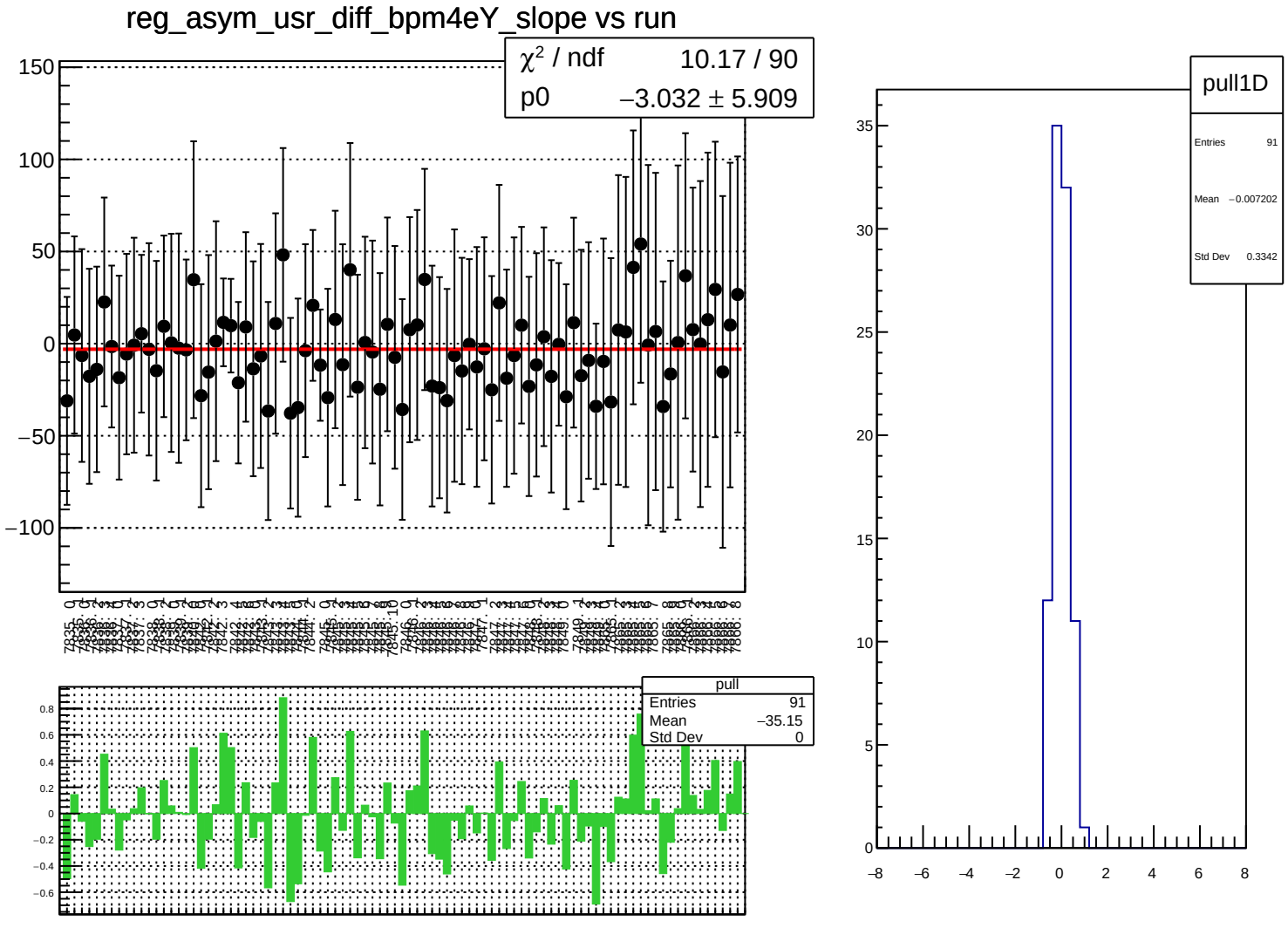

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 127.9 / 90
p0 −67.13 ± 4.086
50
0
−50
−100
−150
pull
Entries 91
Mean 43.17
Std Dev 25.67
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.5307
Std Dev 1.06
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

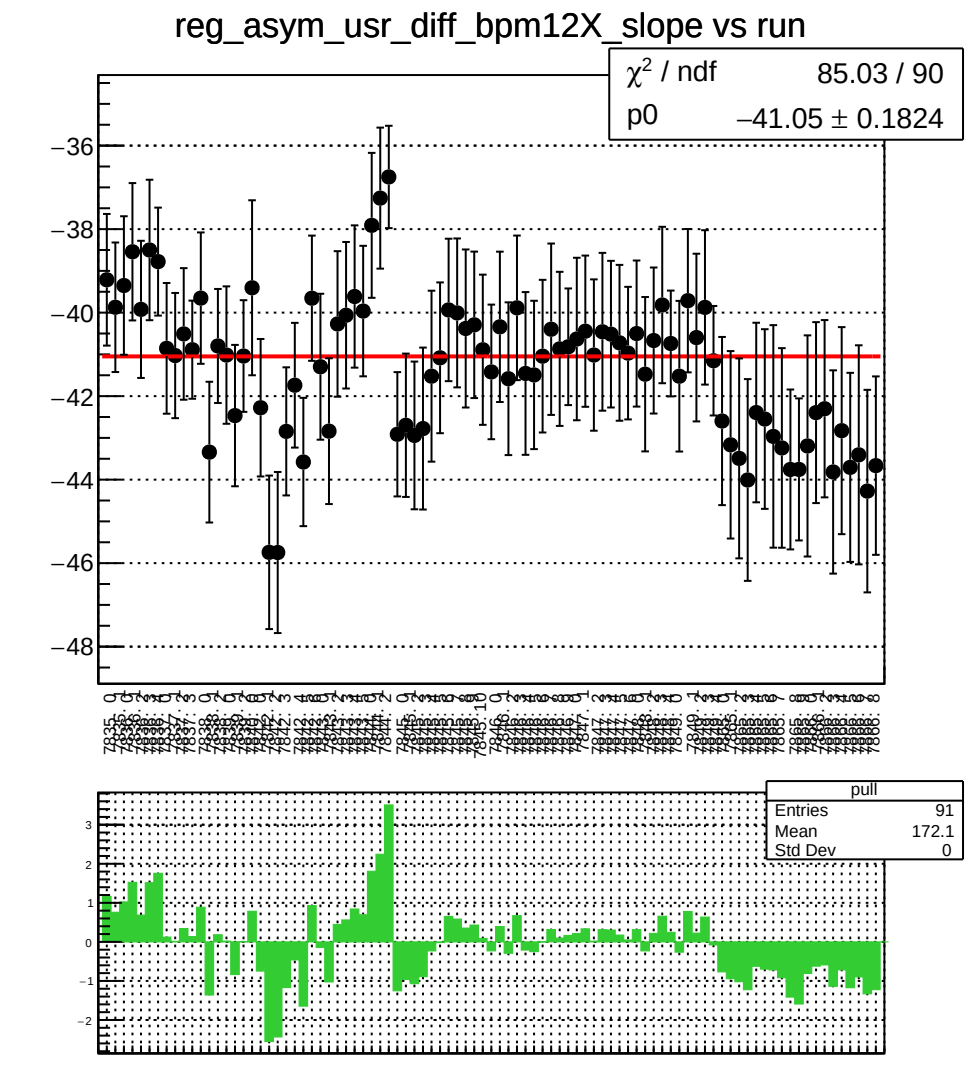

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.967 / 90
p0 18.14 ± 5.014
pull
Entries 91
Mean 46.21
Std Dev 0

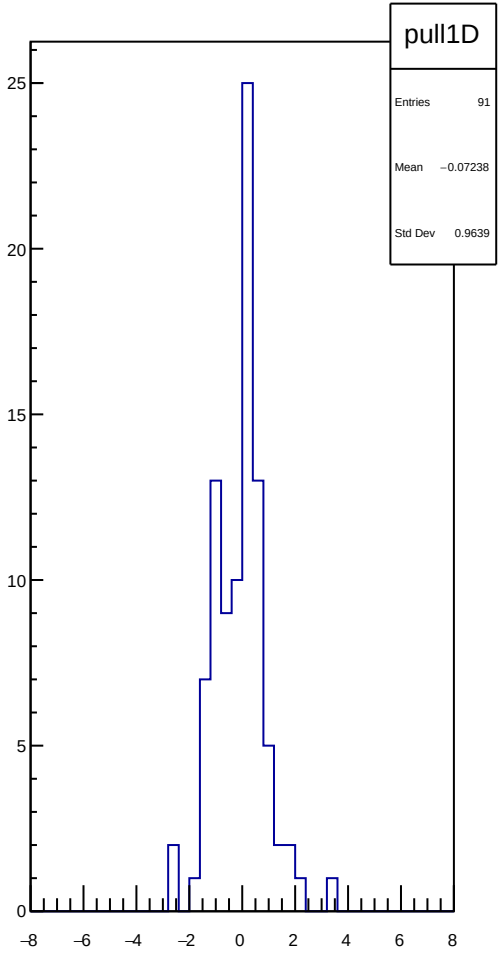

pull1D
Entries 91
Mean 0.02632
Std Dev 0.3299

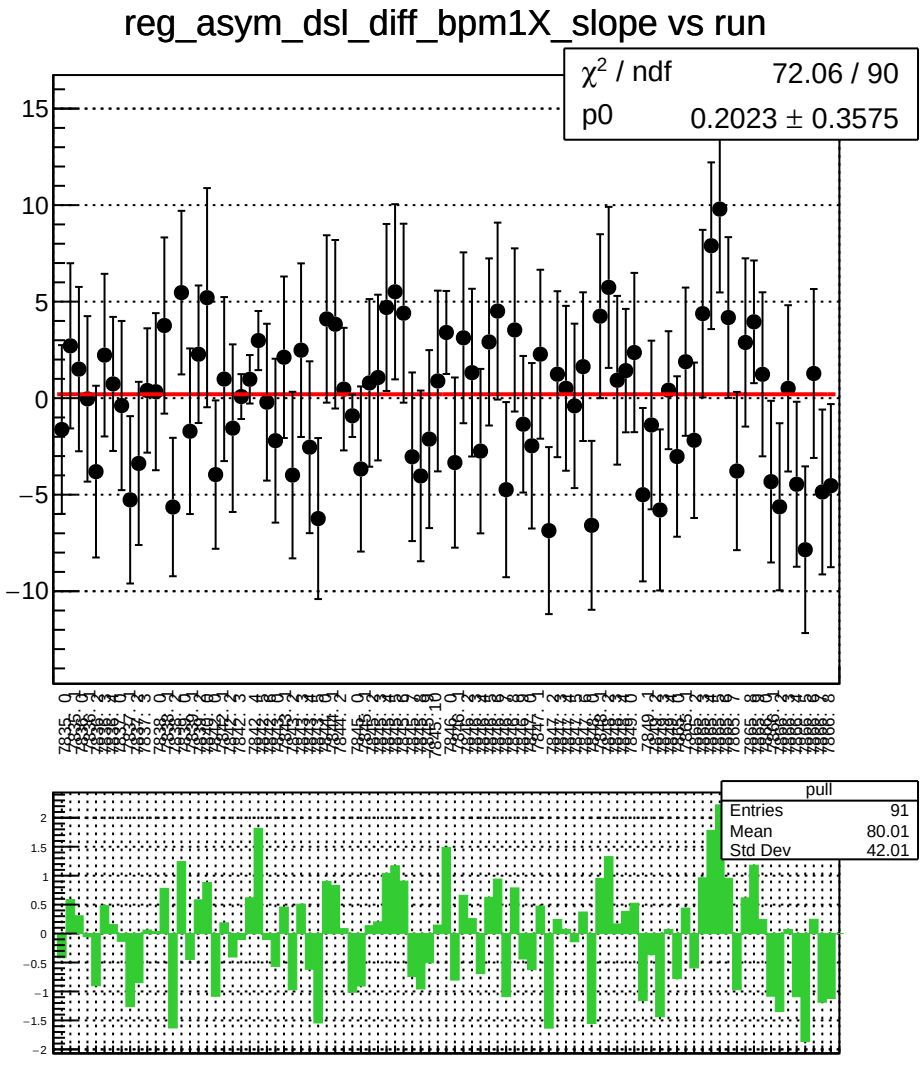

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 157.5 / 90
p0 132.1 ± 3.499
pull
Entries 91
Mean 43.91
Std Dev 26.11

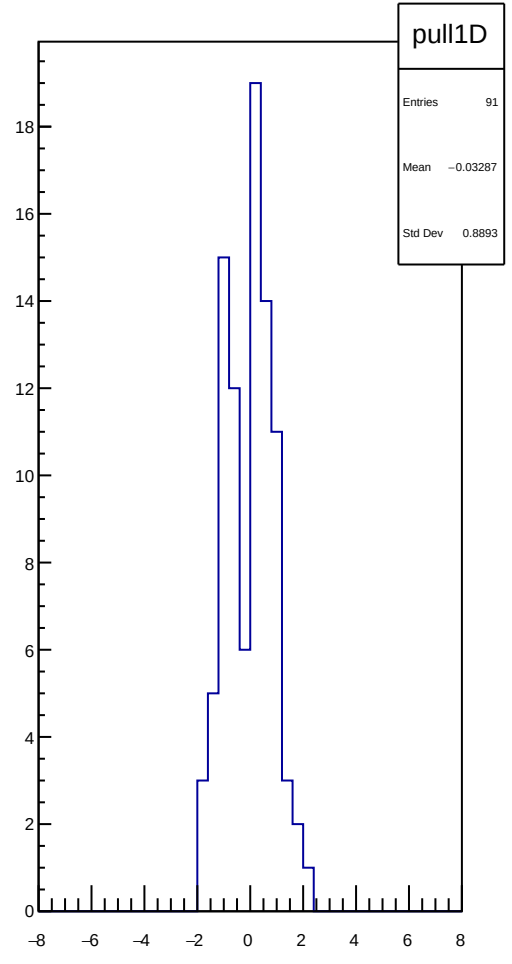

pull1D
Entries 91
Mean −0.6788
Std Dev 1.127

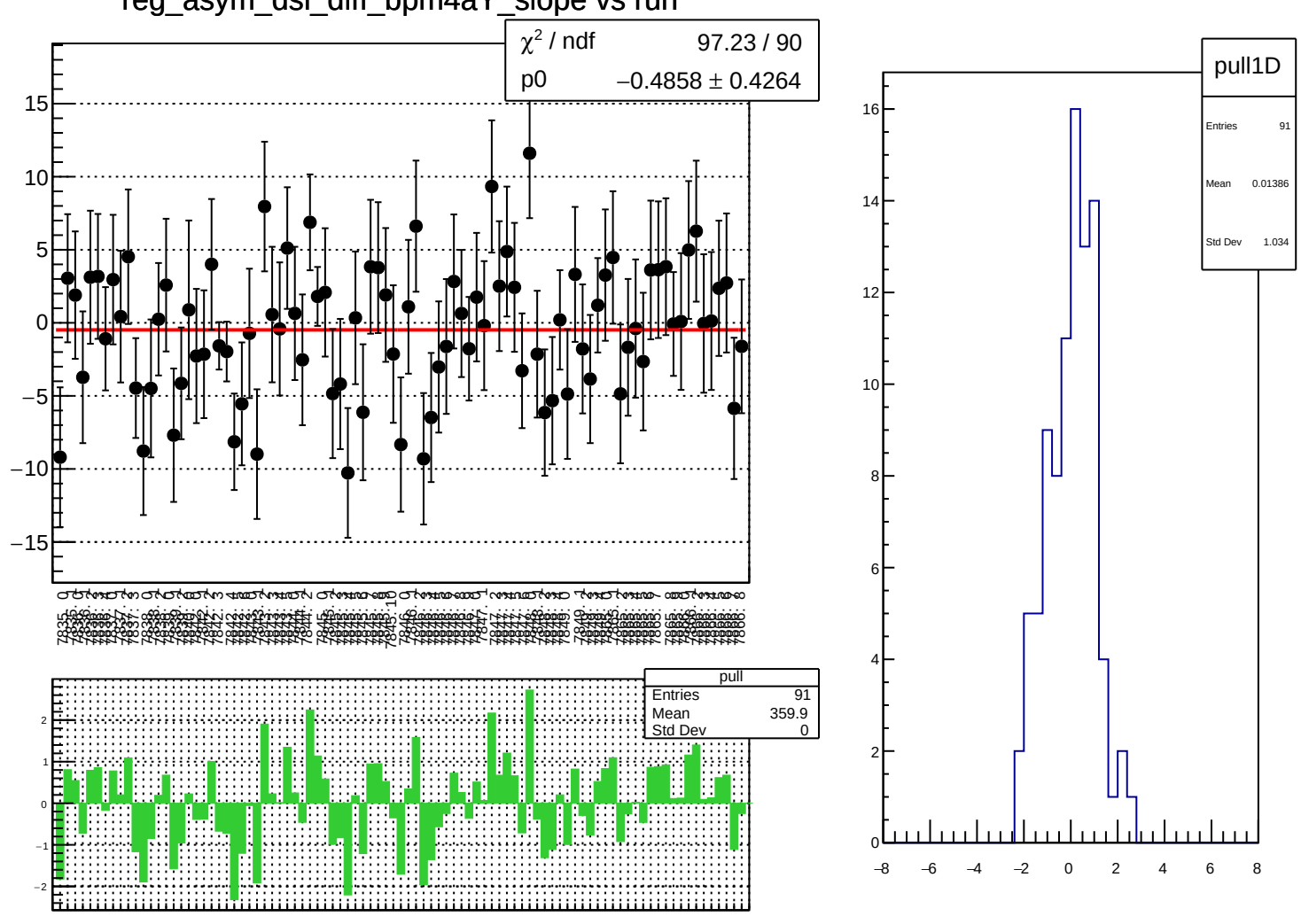

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.17 / 90
p0 −3.032 ± 5.909
150
100
50
0
−50
−100
pull
Entries 91
Mean −35.15
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean −0.007202
Std Dev 0.3342
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

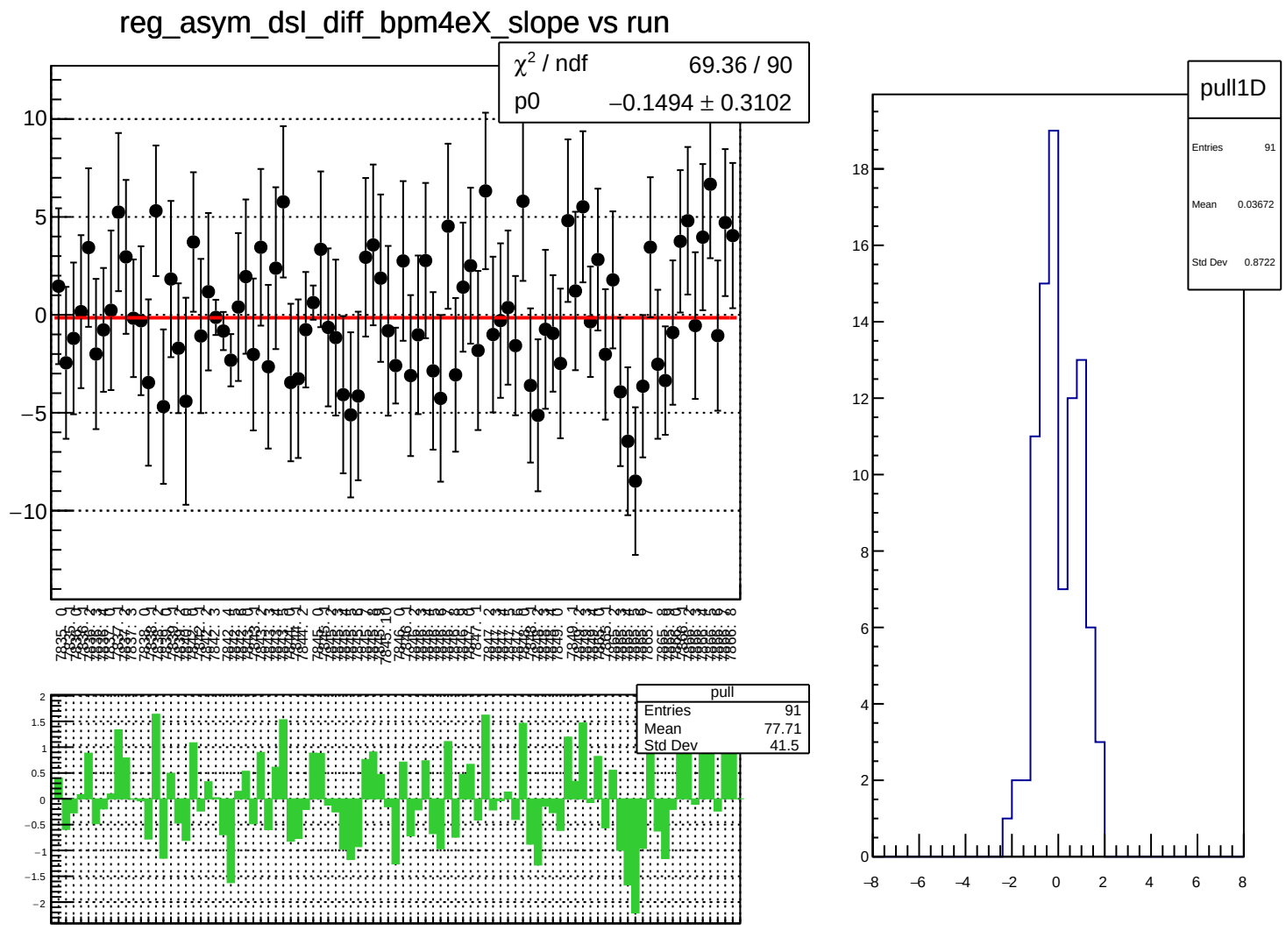

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 85.03 / 90
p0 −41.05 ± 0.1824
pull
Entries 91
Mean 172.1
Std Dev 0

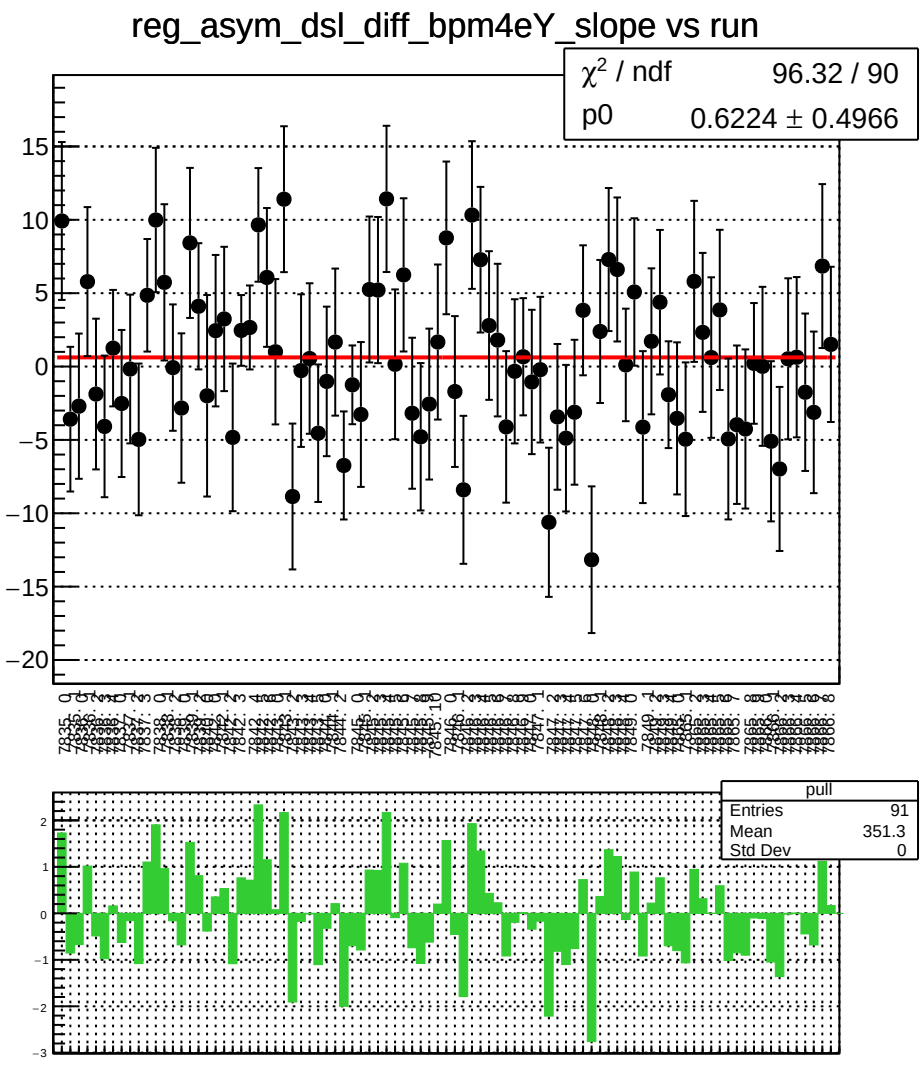

pull1D
Entries 91
Mean −0.07238
Std Dev 0.9639

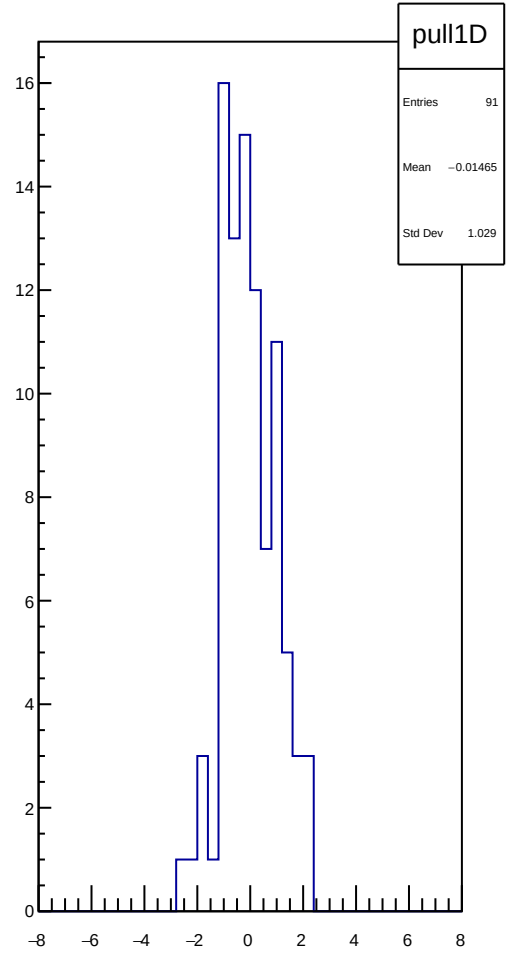

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 72.06 / 90
p0 0.2023 ± 0.3575
pull
Entries 91
Mean 80.01
Std Dev 42.01

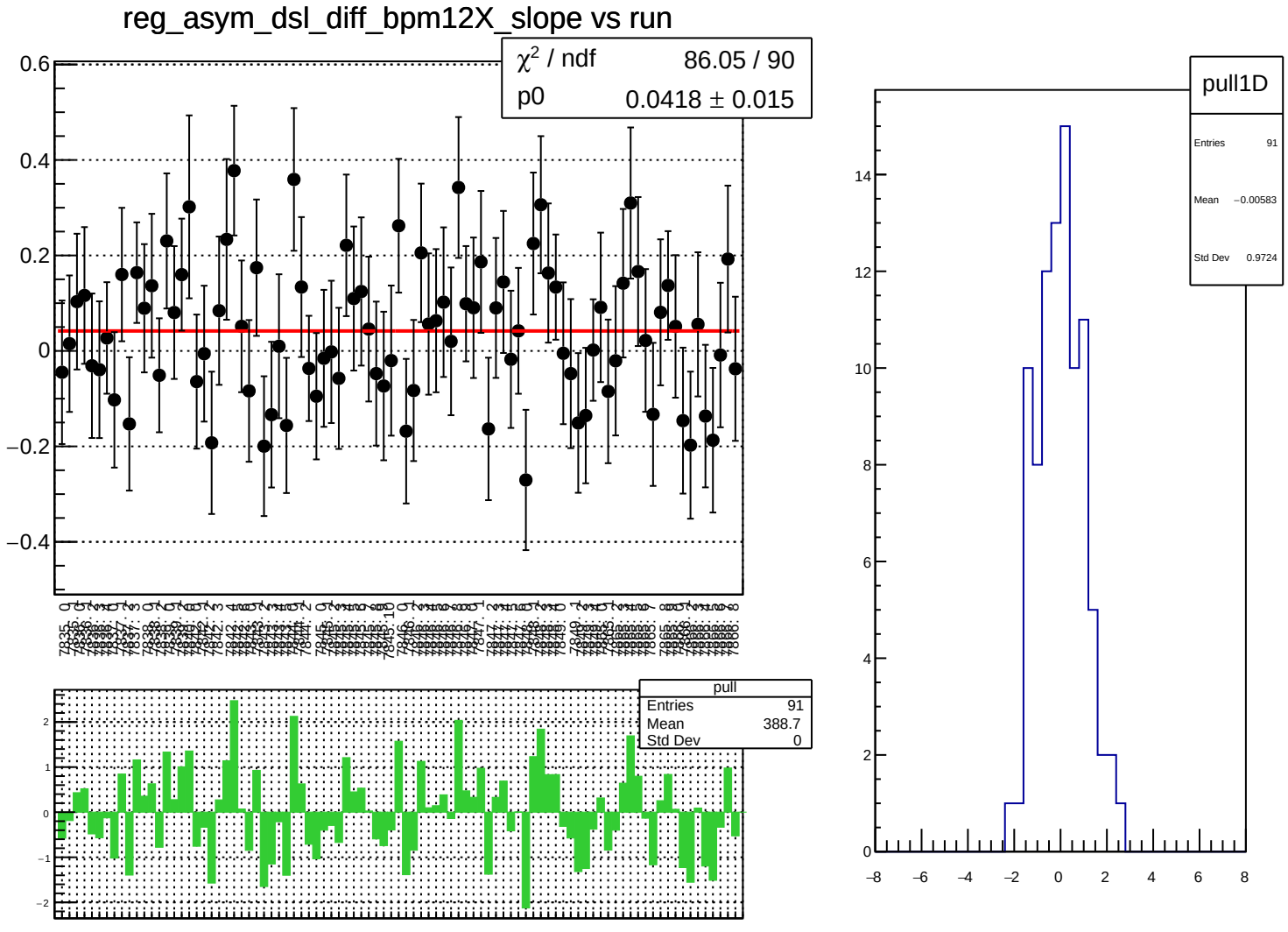

pull1D
Entries 91
Mean −0.03287
Std Dev 0.8893

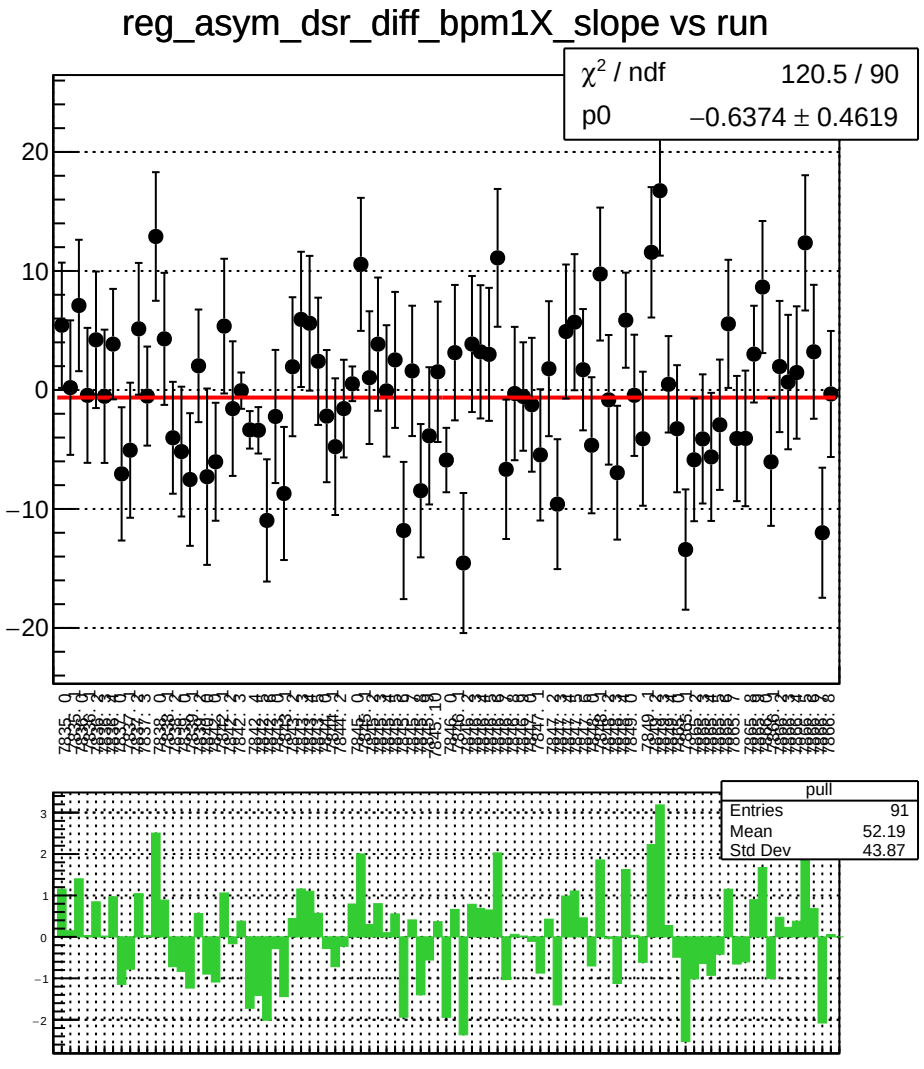

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 97.23 / 90
p0 −0.4858 ± 0.4264
pull
Entries 91
Mean 359.9
Std Dev 0
pull1D
Entries 91
Mean 0.01386
Std Dev 1.034

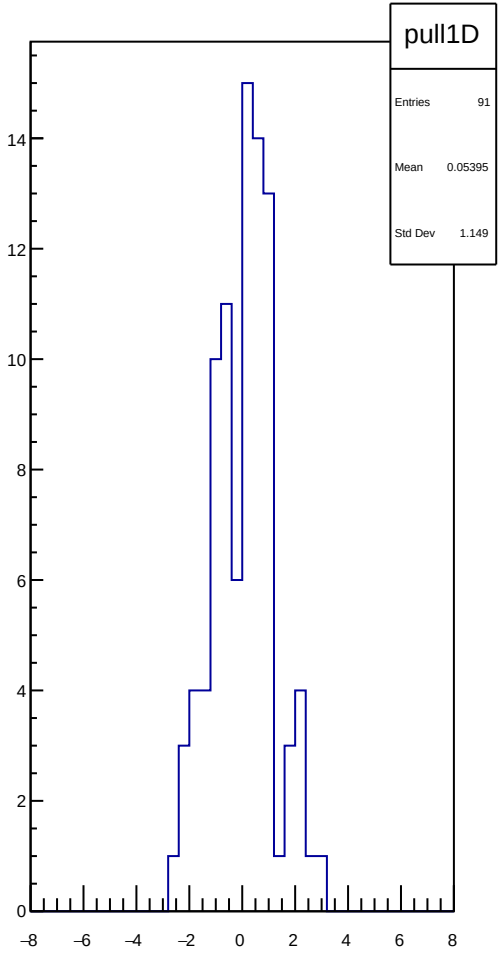

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 69.36 / 90
p0 −0.1494 ± 0.3102
pull
Entries 91
Mean 77.71
Std Dev 41.5
pull1D
Entries 91
Mean 0.03672
Std Dev 0.8722

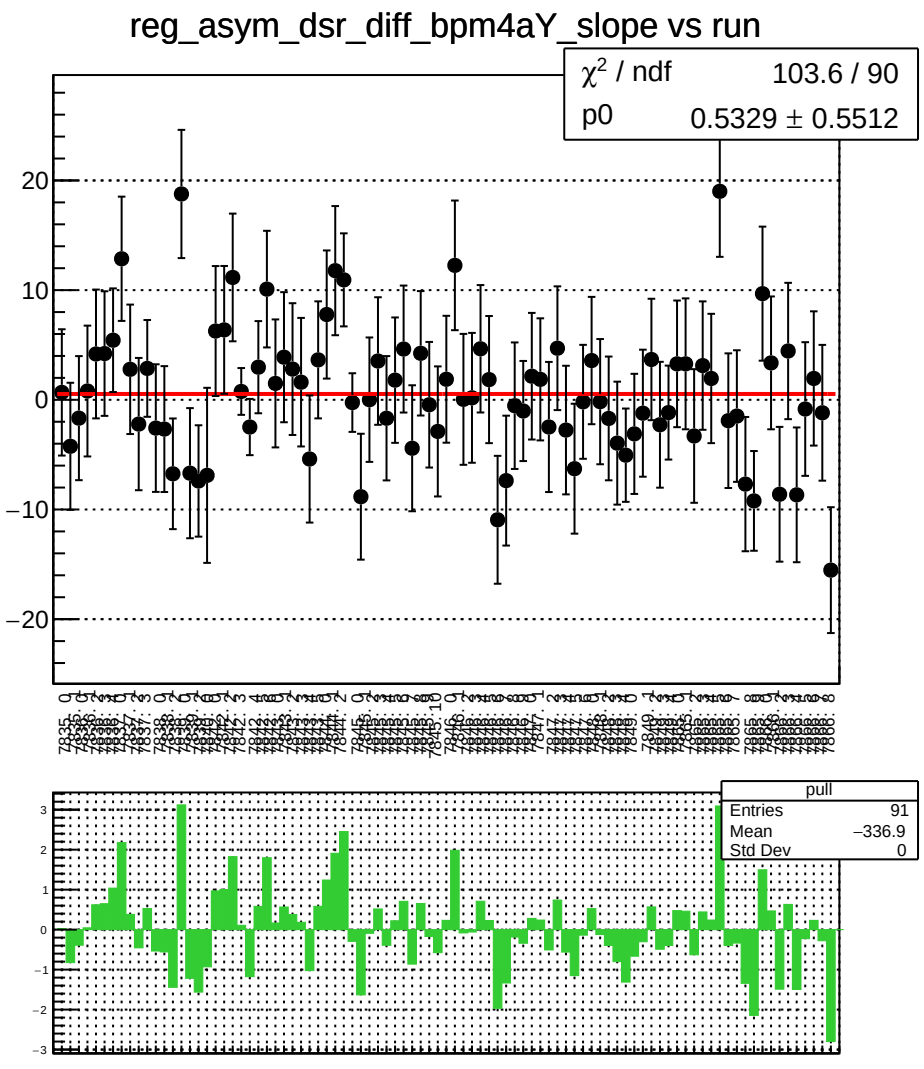

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 96.32 / 90
p0 0.6224 ± 0.4966
pull
Entries 91
Mean 351.3
Std Dev 0

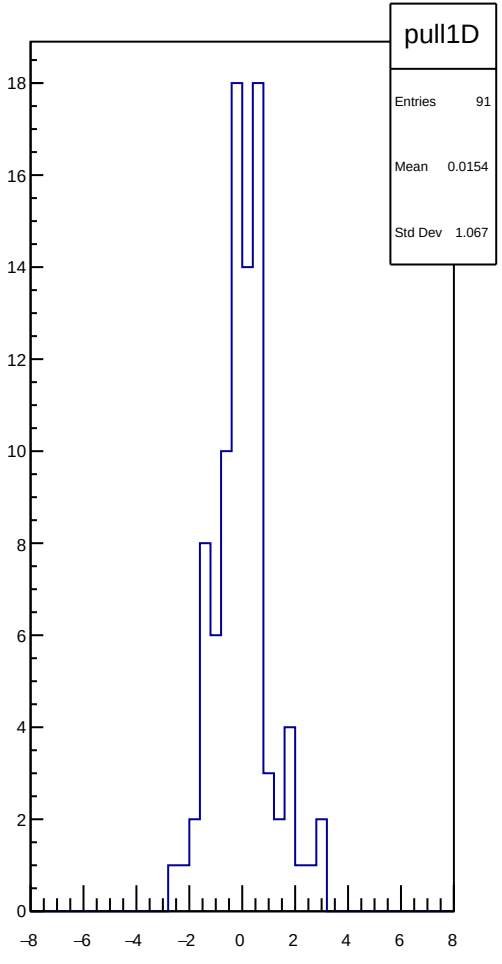

pull1D
Entries 91
Mean −0.01465
Std Dev 1.029

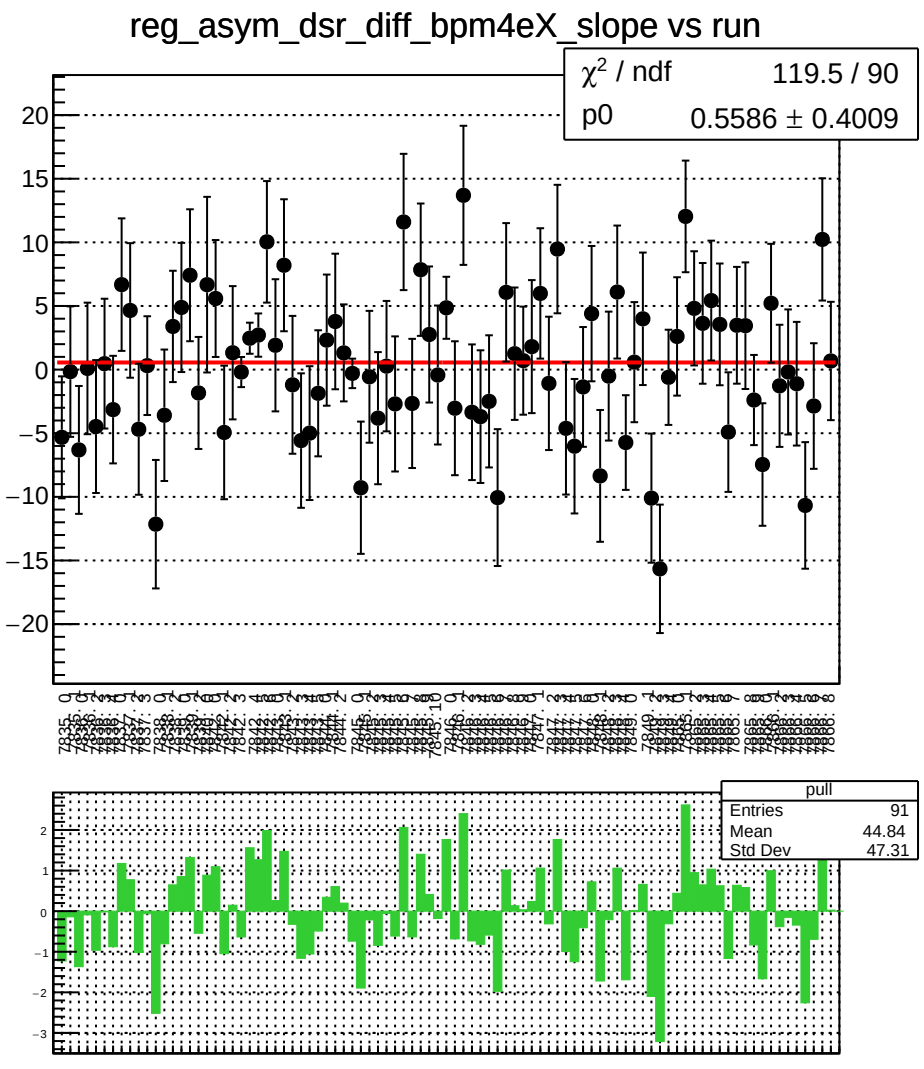

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 86.05 / 90
p0 0.0418 ± 0.015
pull
Entries 91
Mean 388.7
Std Dev 0
pull1D
Entries 91
Mean −0.00583
Std Dev 0.9724

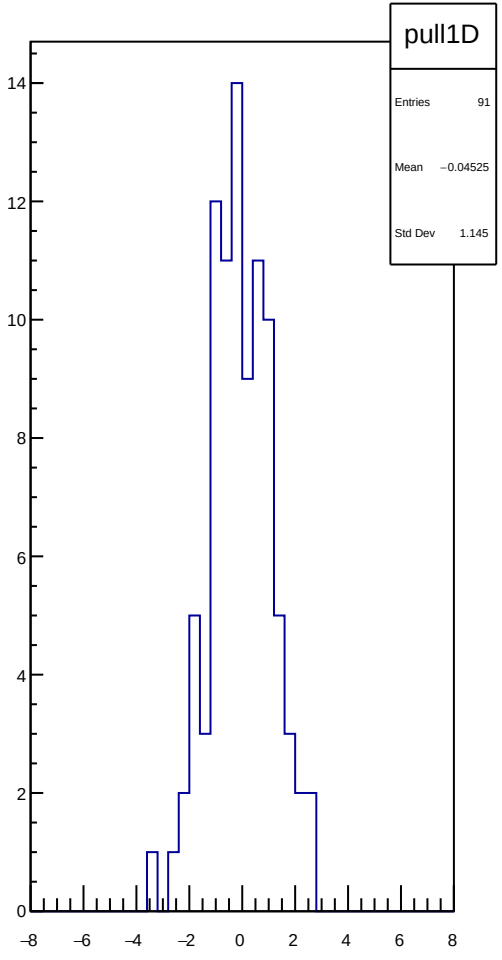

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 120.5 / 90
p0 −0.6374 ± 0.4619
pull
Entries 91
Mean 52.19
Std Dev 43.87

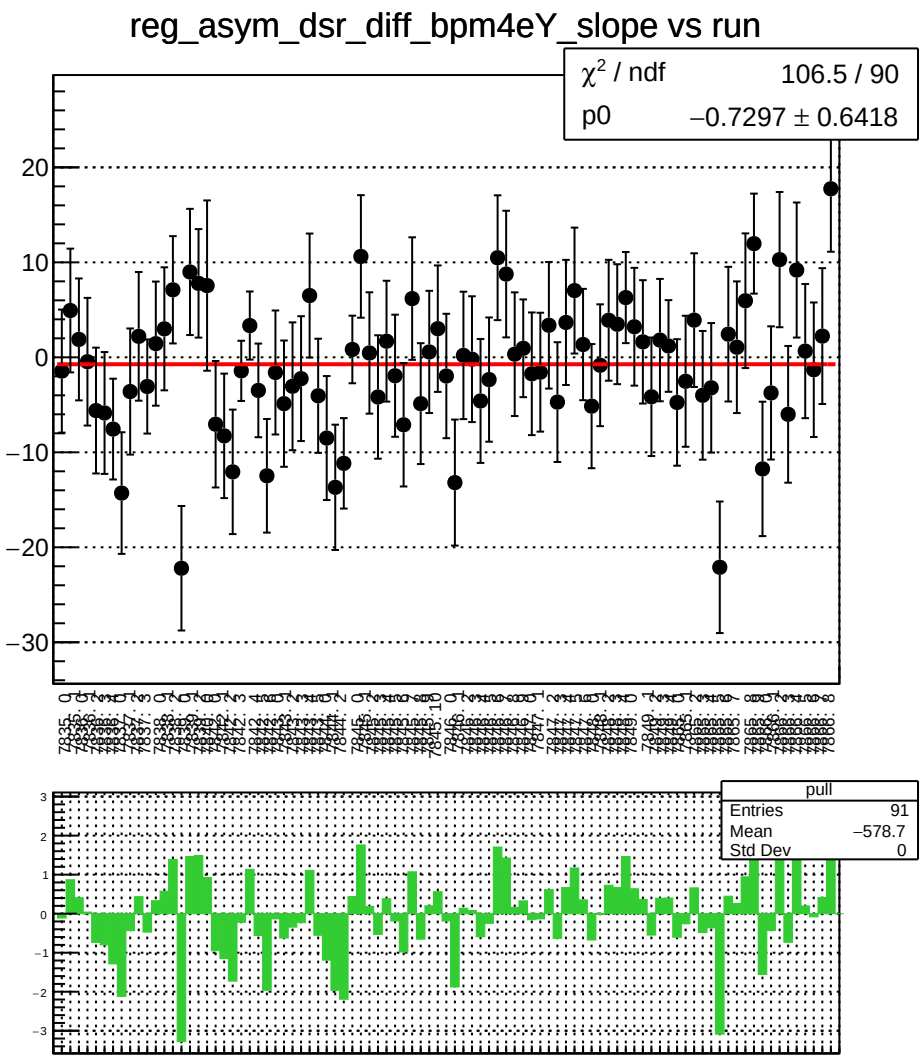

pull1D
Entries 91
Mean 0.05395
Std Dev 1.149

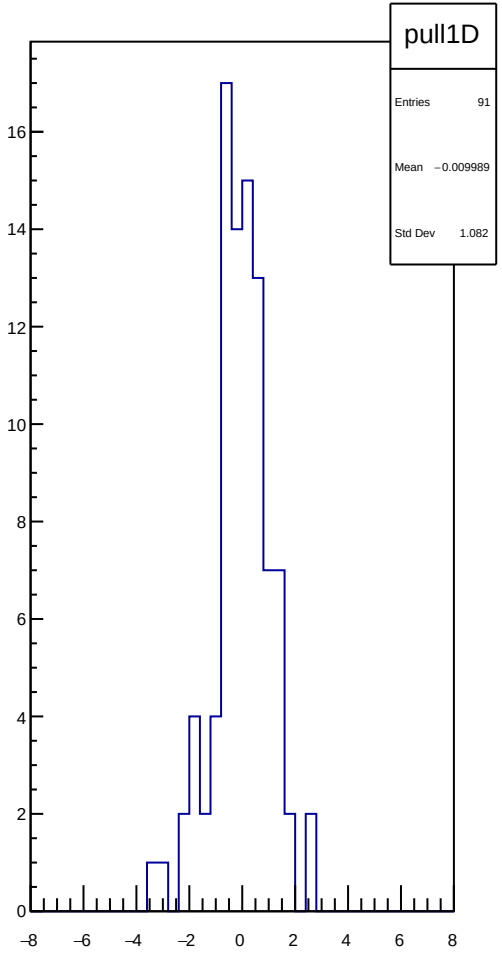

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 103.6 / 90
p0 0.5329 ± 0.5512
pull
Entries 91
Mean −336.9
Std Dev 0

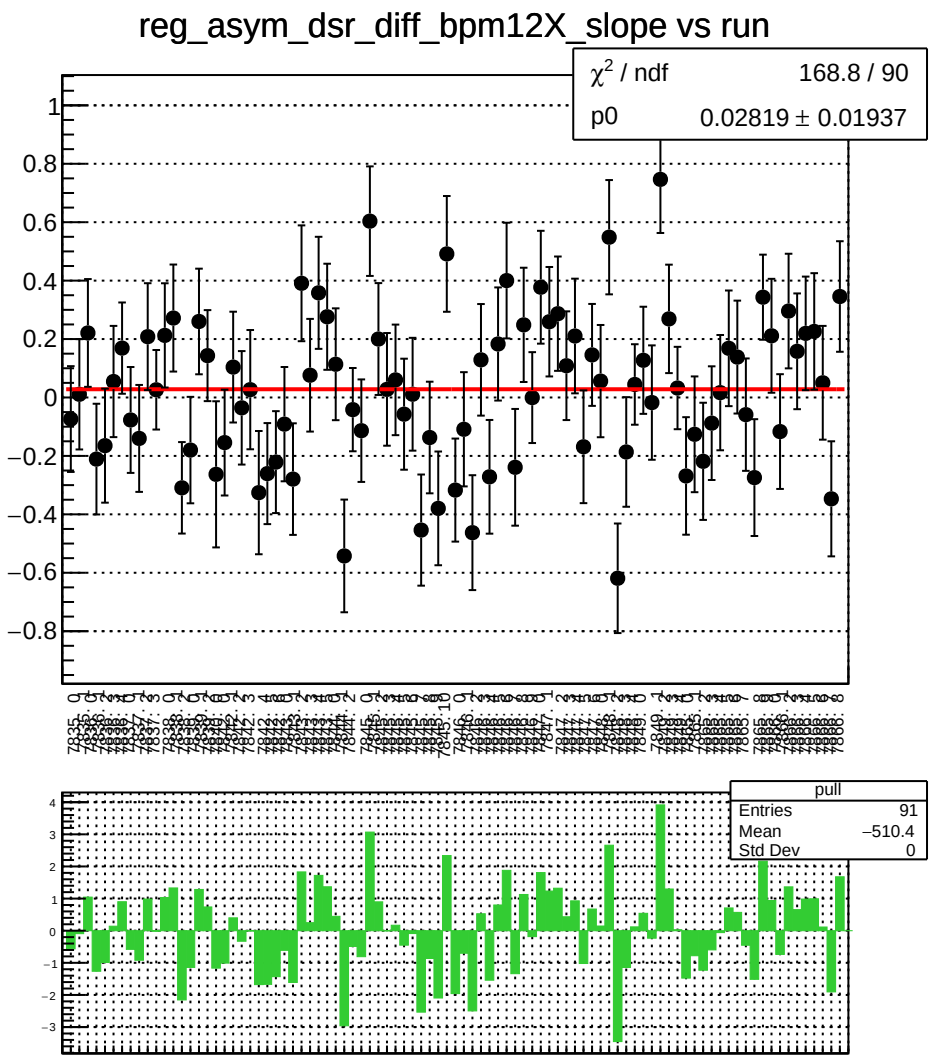

pull1D
Entries 91
Mean 0.0154
Std Dev 1.067

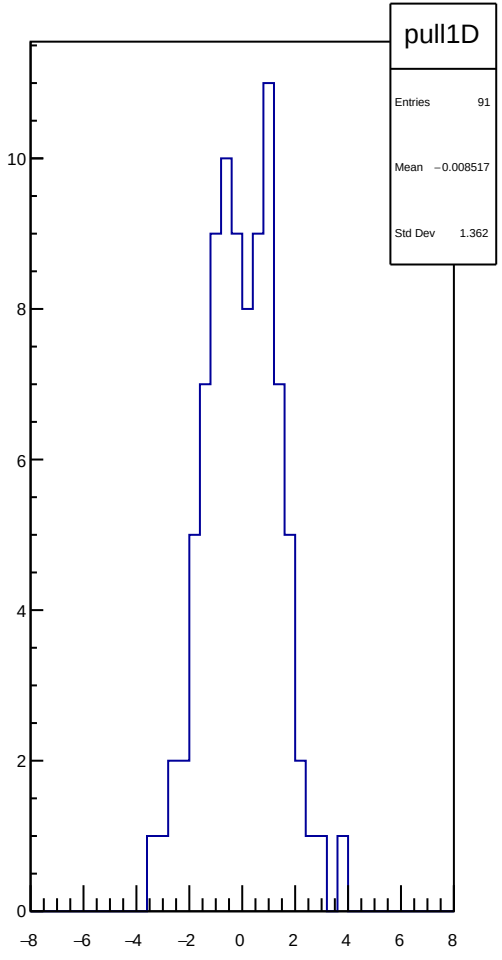

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 119.5 / 90
p0 0.5586 ± 0.4009
pull
Entries 91
Mean 44.84
Std Dev 47.31

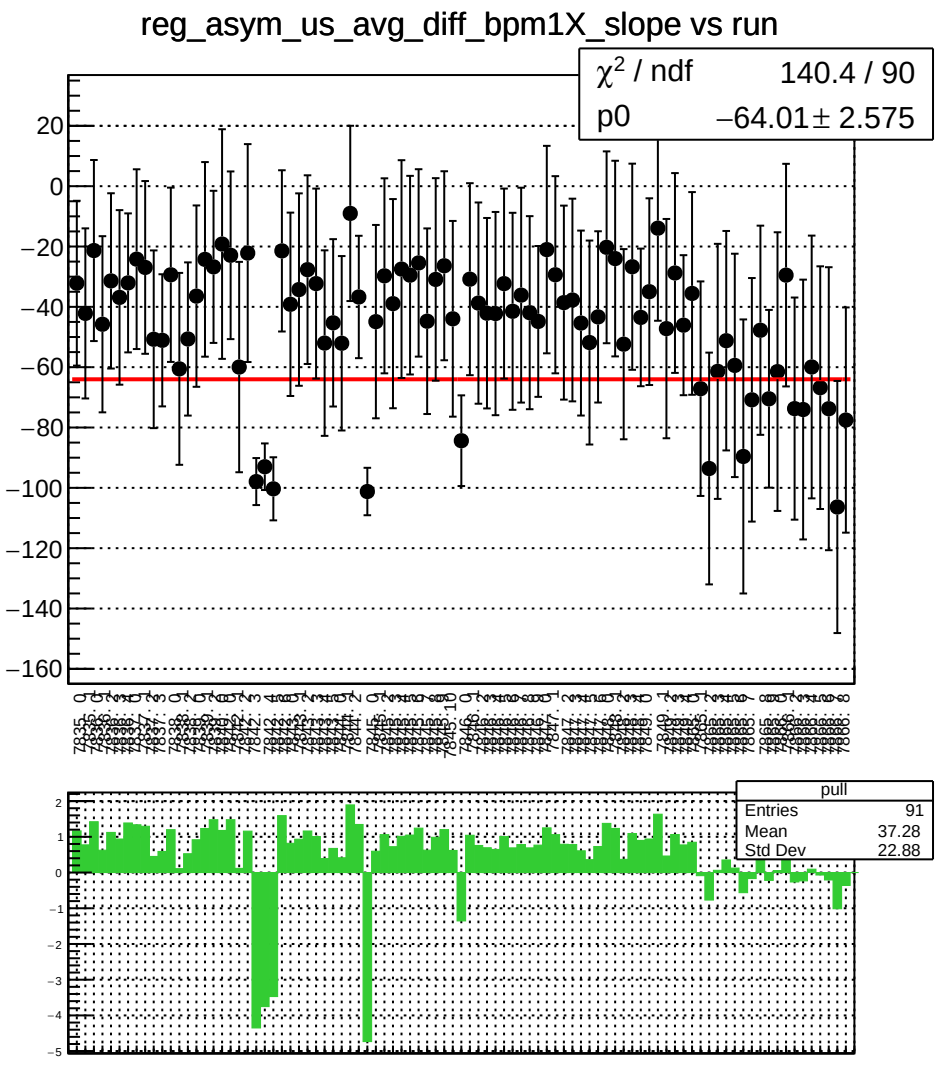

pull1D
Entries 91
Mean −0.04525
Std Dev 1.145

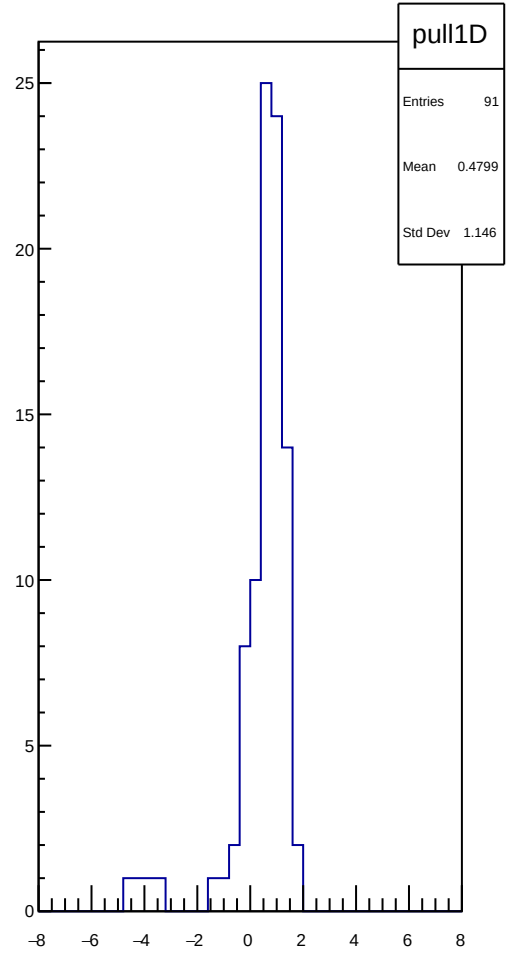

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 106.5 / 90
p0 −0.7297 ± 0.6418
pull
Entries 91
Mean −578.7
Std Dev 0

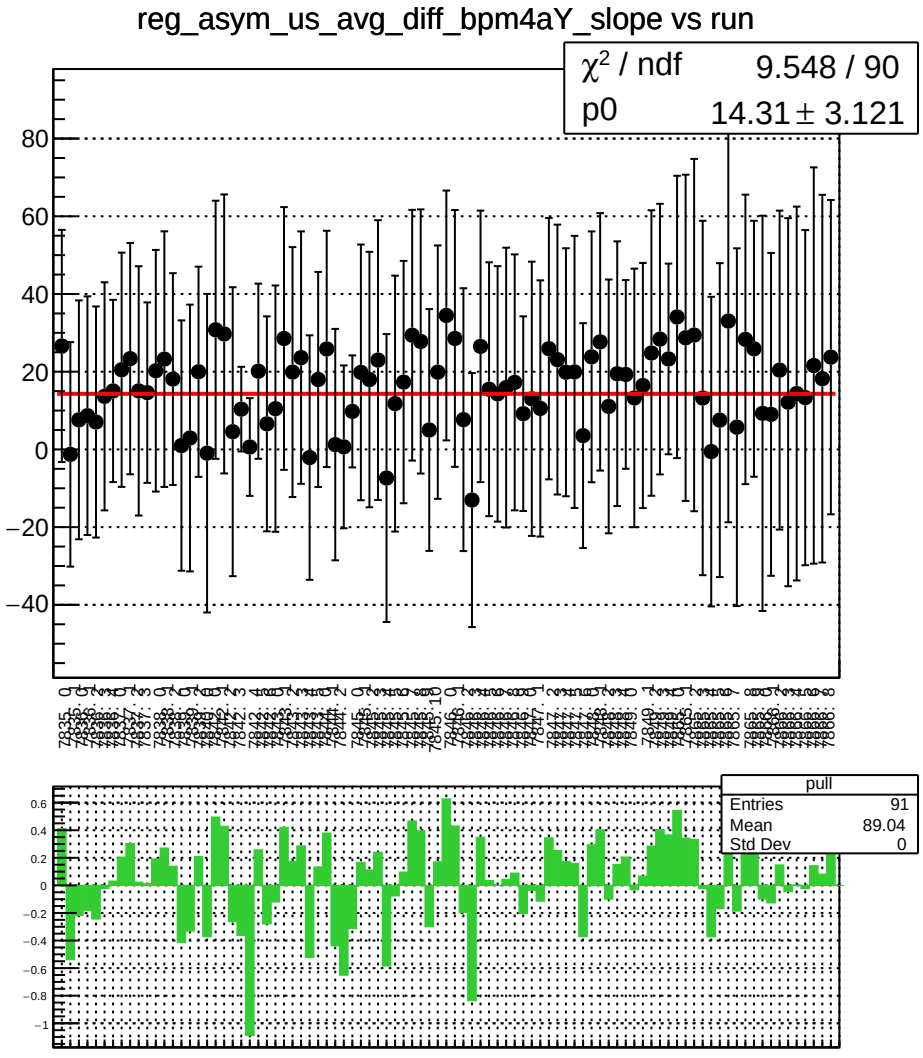

pull1D
Entries 91
Mean −0.009989
Std Dev 1.082

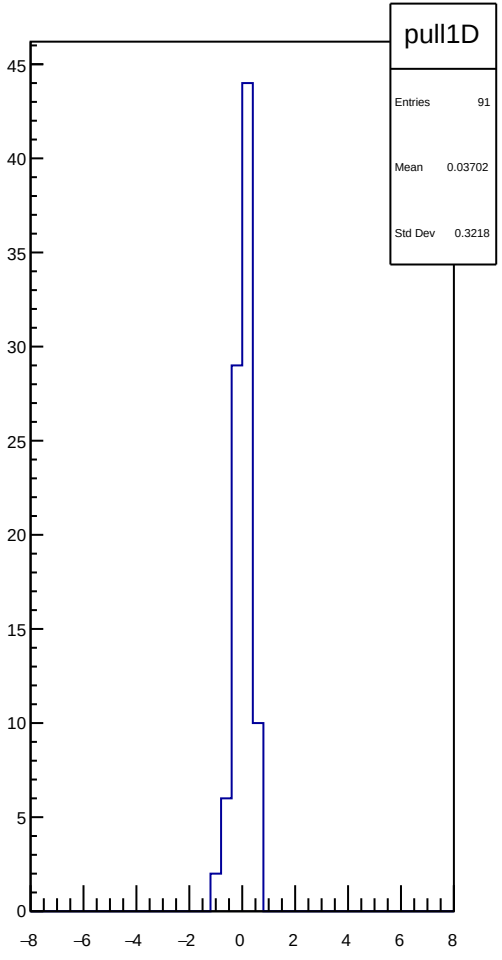

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 168.8 / 90
p0 0.02819 ± 0.01937
pull
Entries 91
Mean −510.4
Std Dev 0

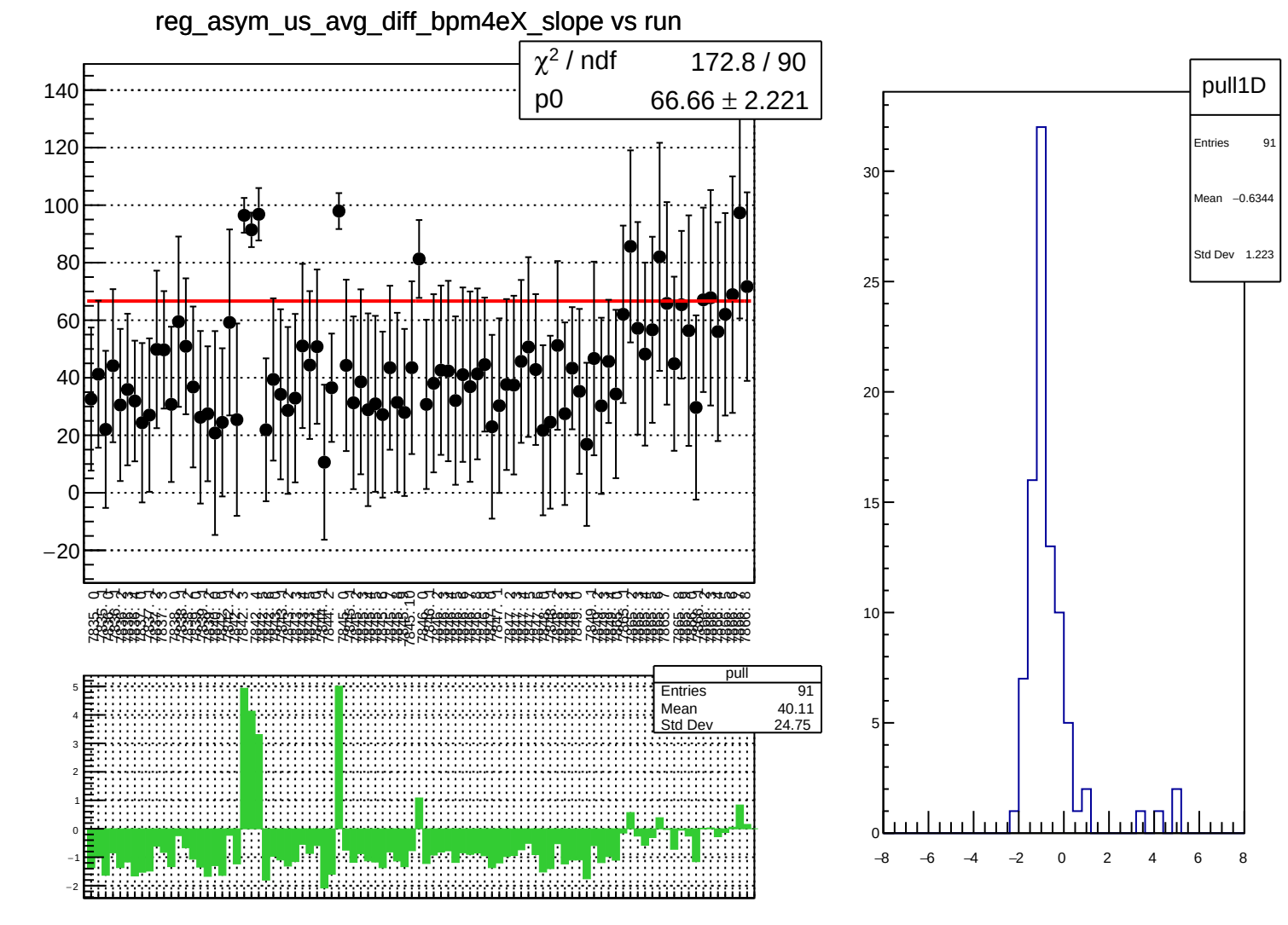

pull1D
Entries 91
Mean −0.008517
Std Dev 1.362

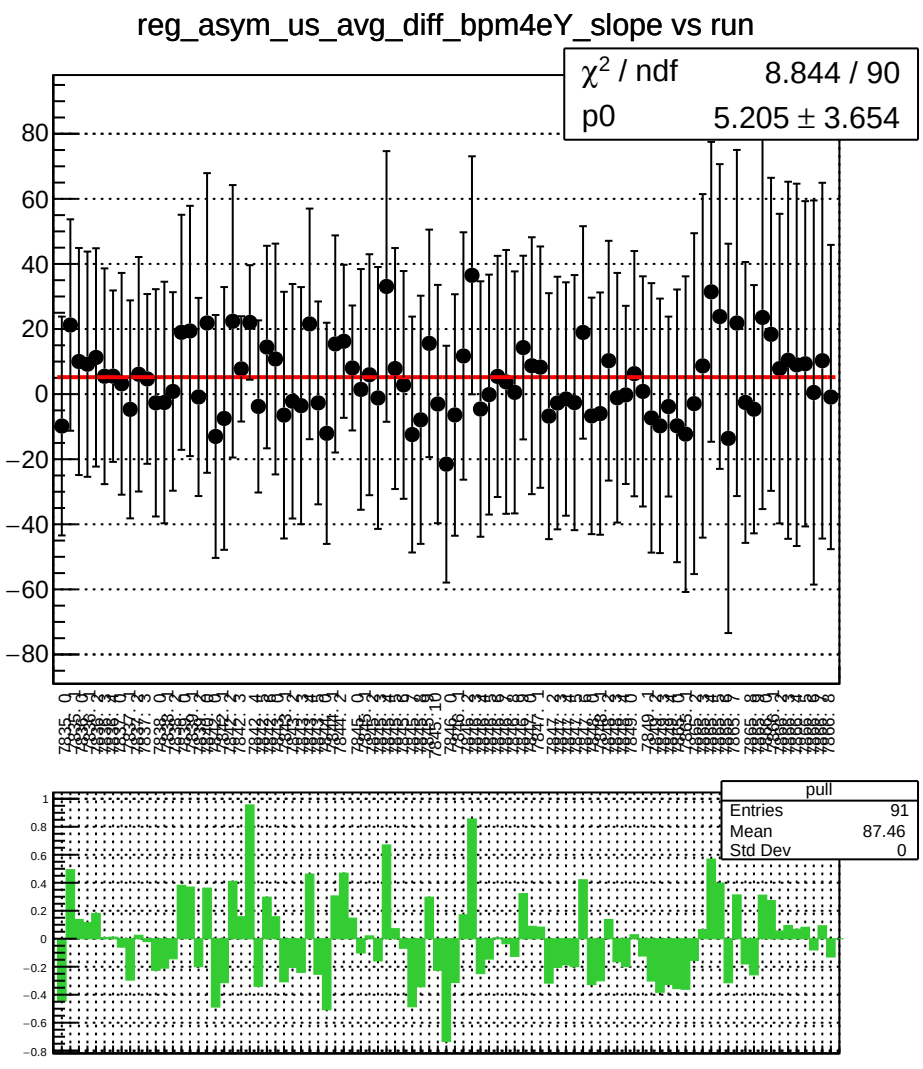

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 140.4 / 90
p0 −64.01± 2.575
pull
Entries 91
Mean 37.28
Std Dev 22.88

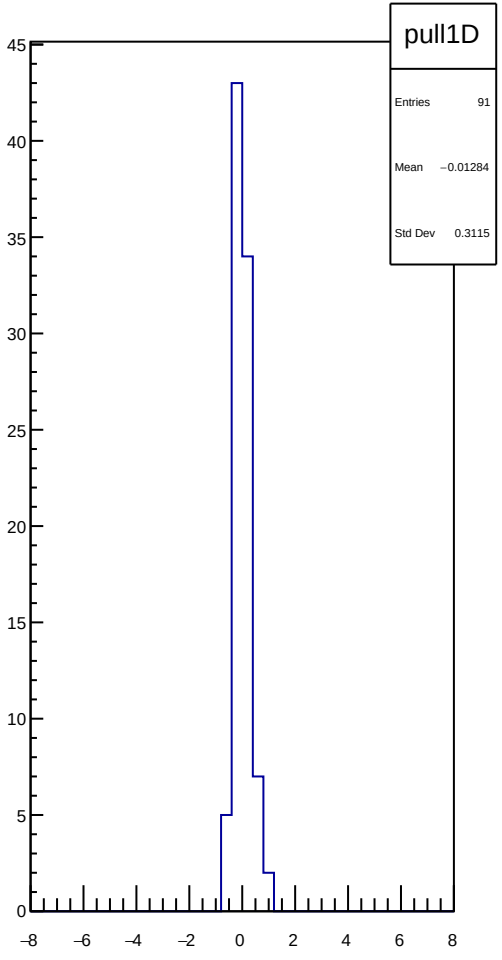

pull1D
Entries 91
Mean 0.4799
Std Dev 1.146

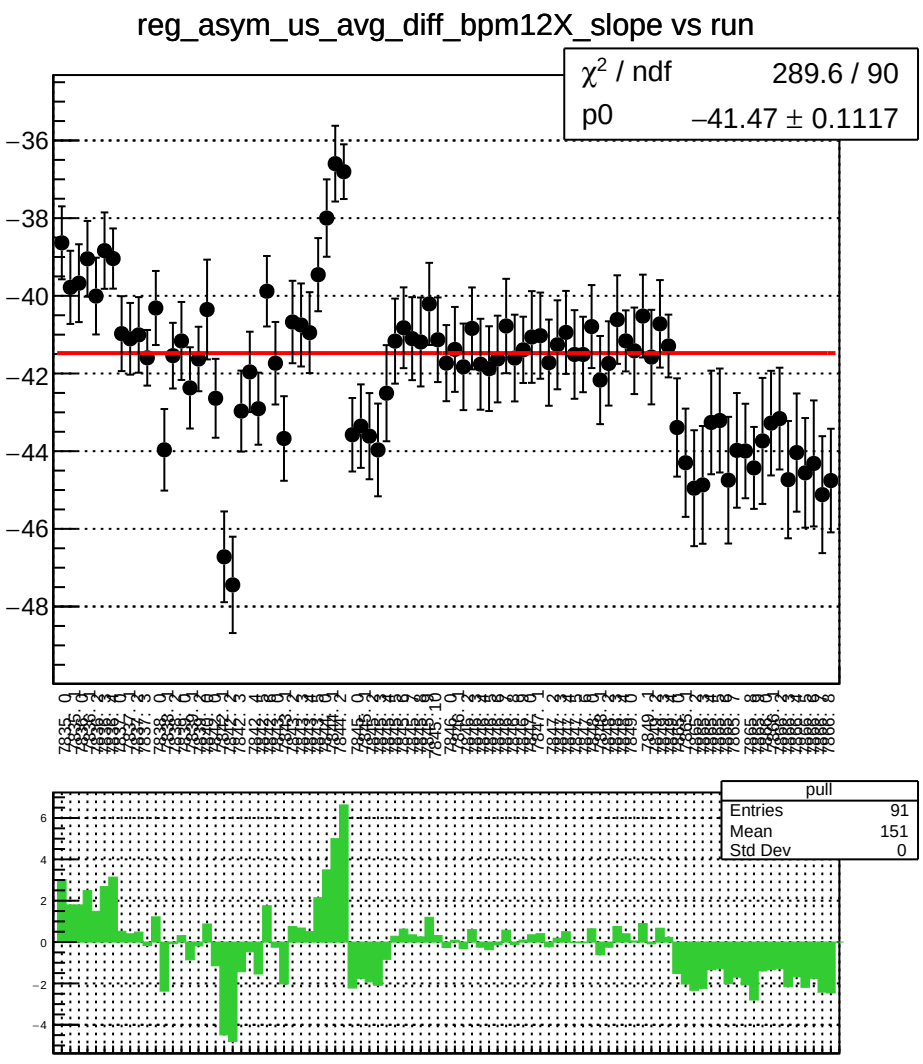

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.548 / 90
p0 14.31 ± 3.121
pull
Entries 91
Mean 89.04
Std Dev 0

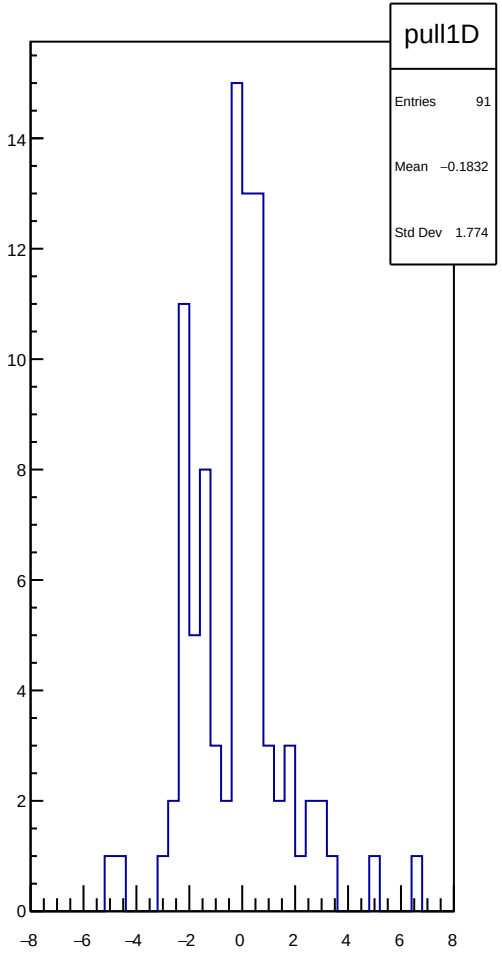

pull1D
Entries 91
Mean 0.03702
Std Dev 0.3218

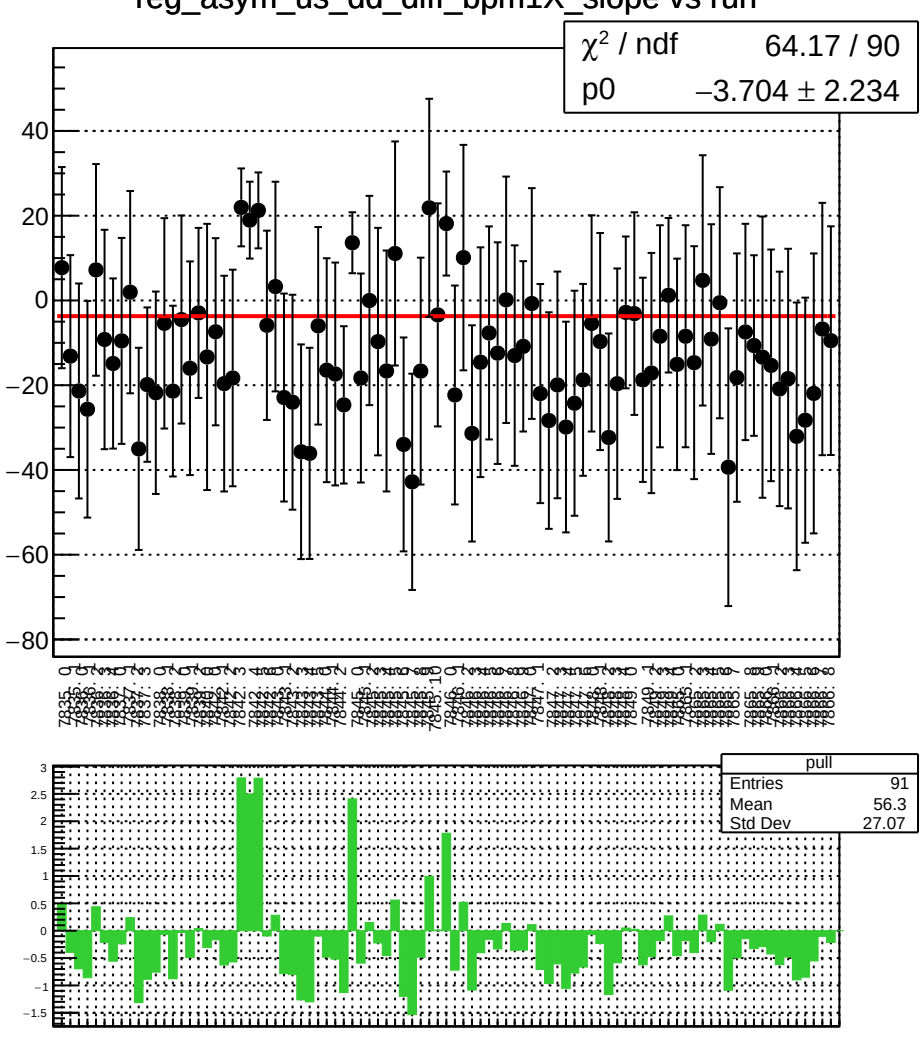

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 172.8 / 90
p0 66.66 ± 2.221
pull
Entries 91
Mean 40.11
Std Dev 24.75
pull1D
Entries 91
Mean −0.6344
Std Dev 1.223

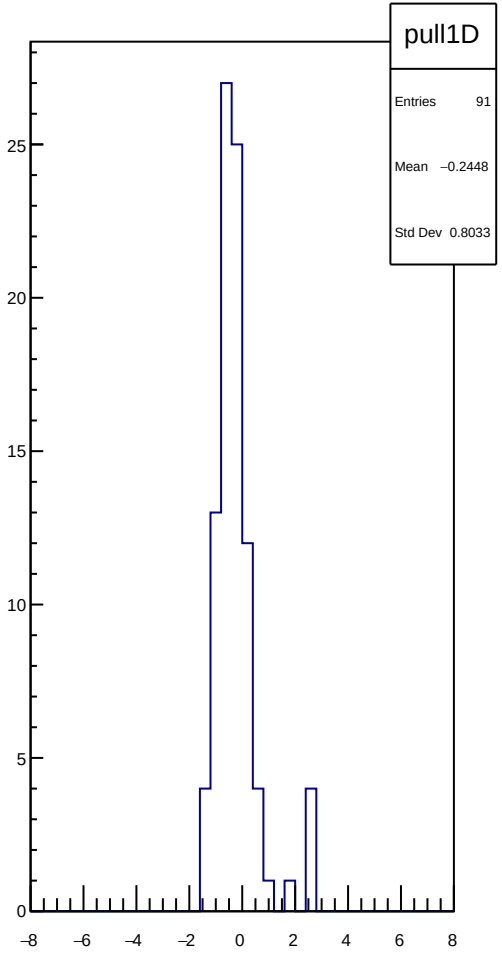

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.844 / 90
p0 5.205 ± 3.654
pull
Entries 91
Mean 87.46
Std Dev 0

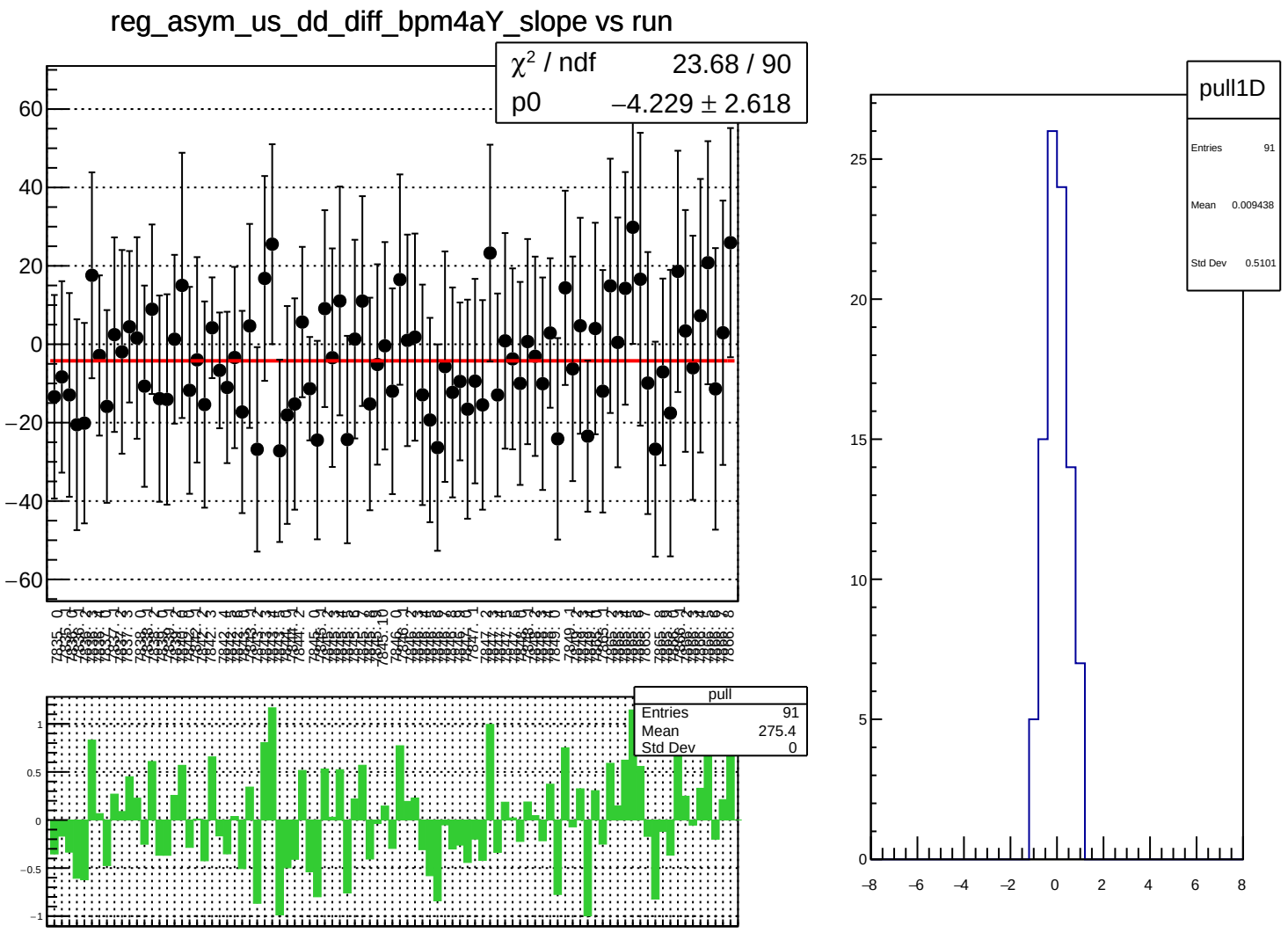

pull1D
Entries 91
Mean −0.01284
Std Dev 0.3115

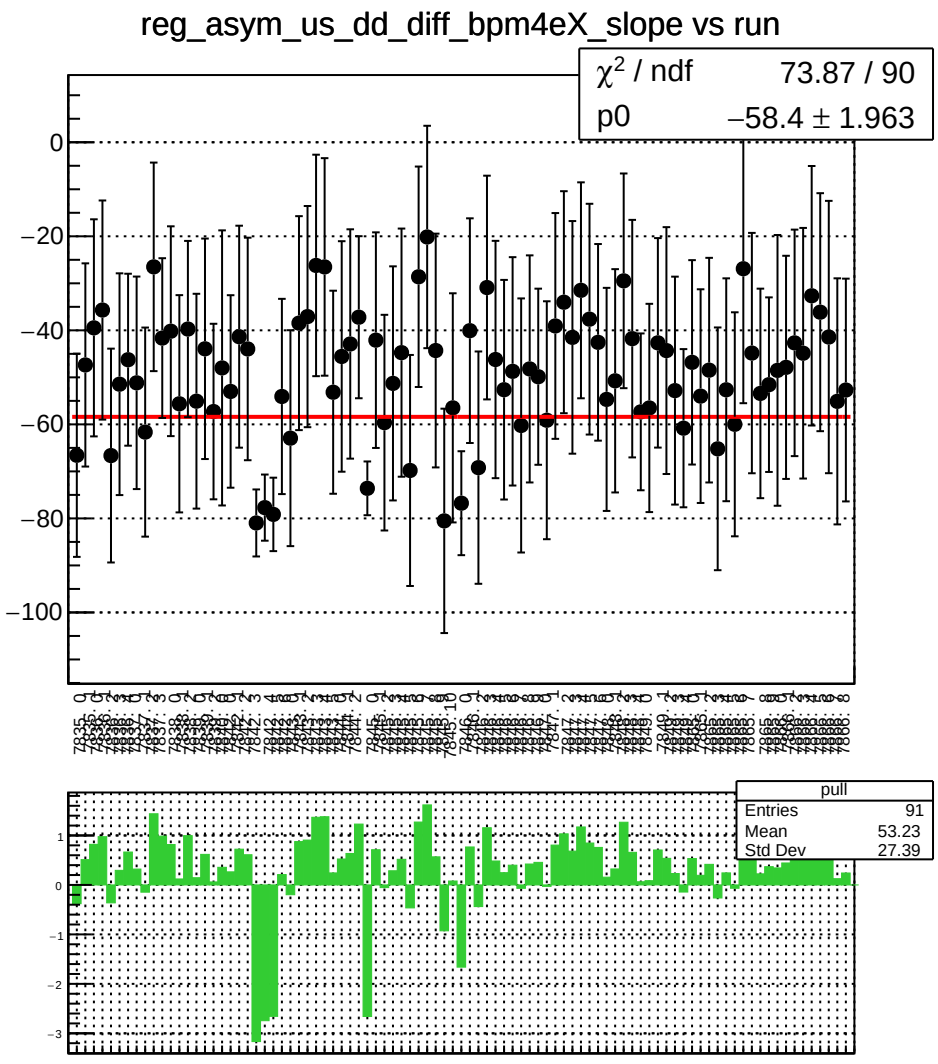

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 289.6 / 90
p0 −41.47 ± 0.1117
pull
Entries 91
Mean 151
Std Dev 0

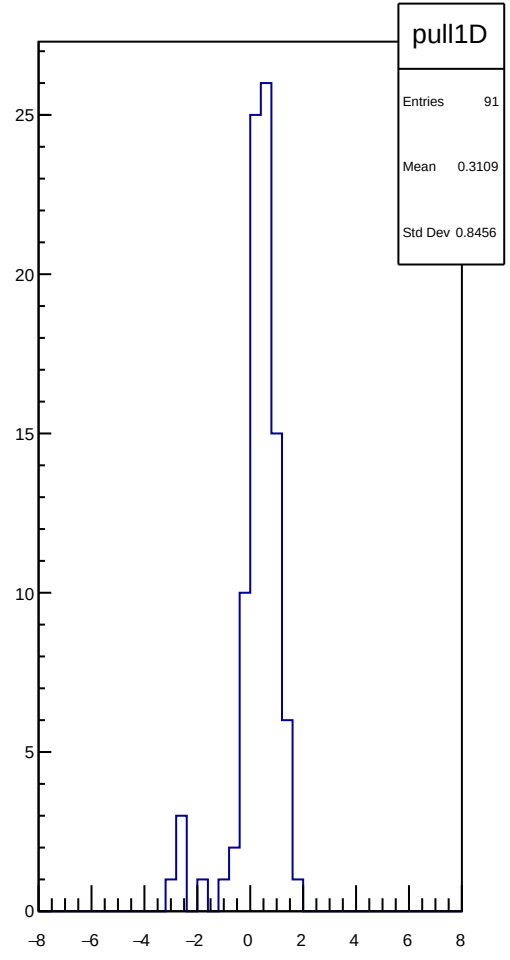

pull1D
Entries 91
Mean −0.1832
Std Dev 1.774

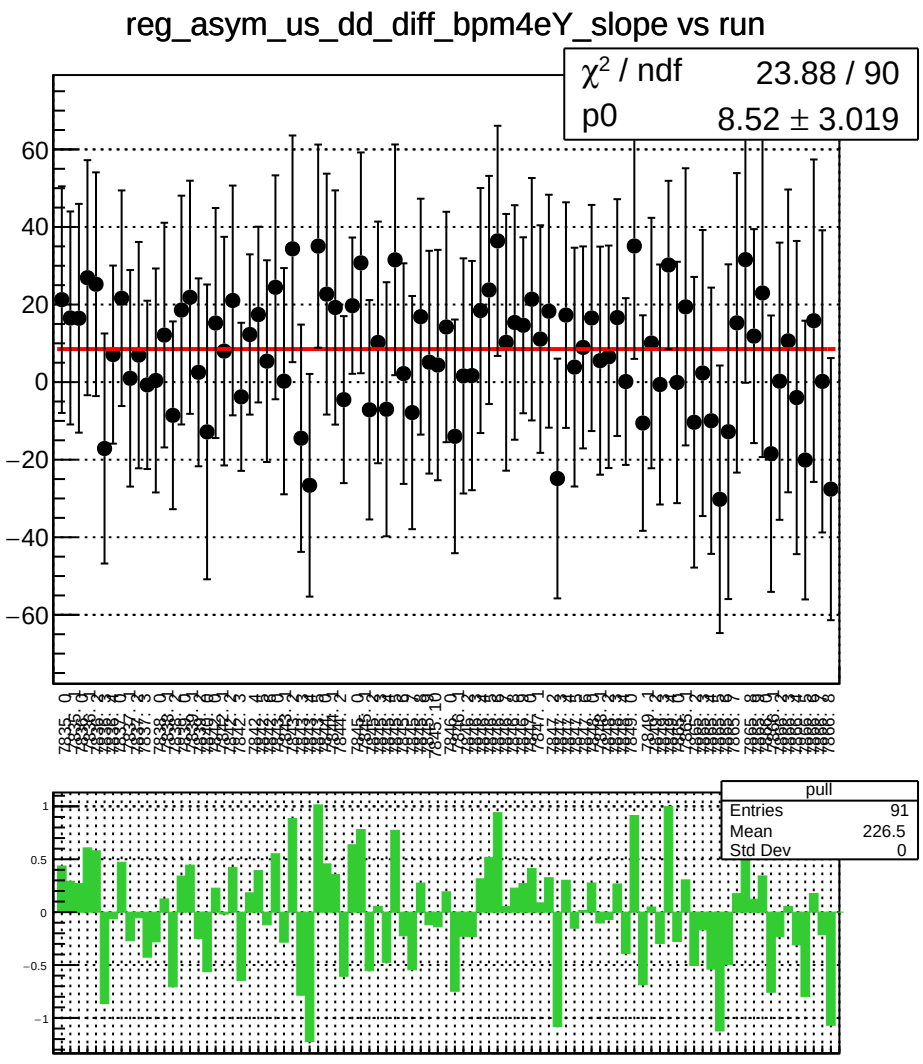

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 64.17 / 90
p0 −3.704 ± 2.234
pull
Entries 91
Mean 56.3
Std Dev 27.07

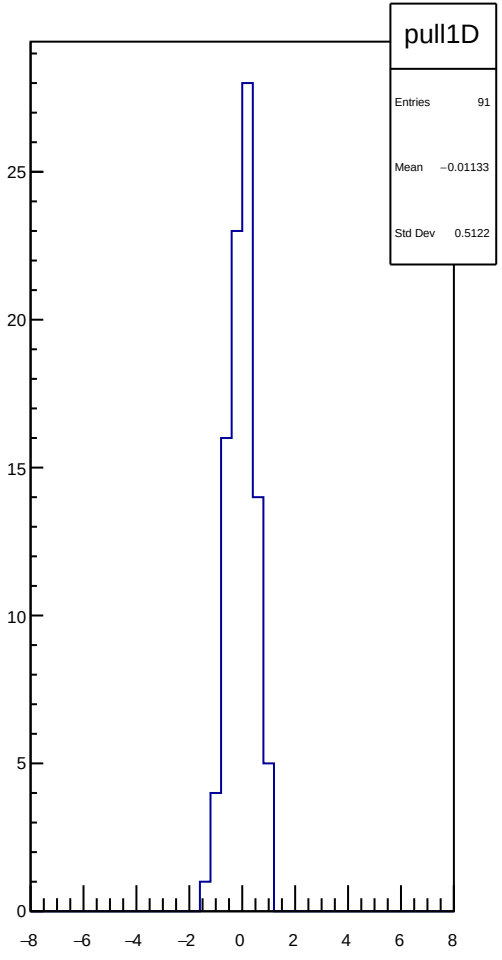

pull1D
Entries 91
Mean −0.2448
Std Dev 0.8033

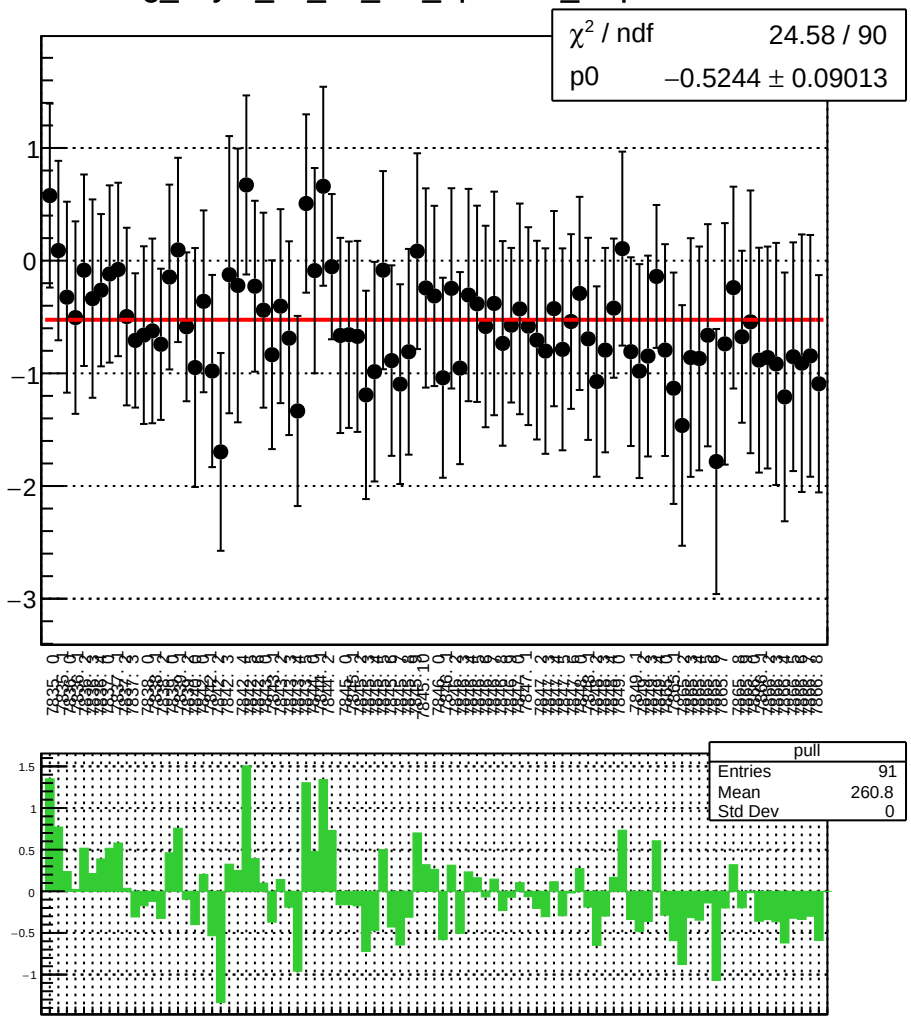

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.68 / 90
p0 −4.229 ± 2.618
pull
Entries 91
Mean 275.4
Std Dev 0
pull1D
Entries 91
Mean 0.009438
Std Dev 0.5101

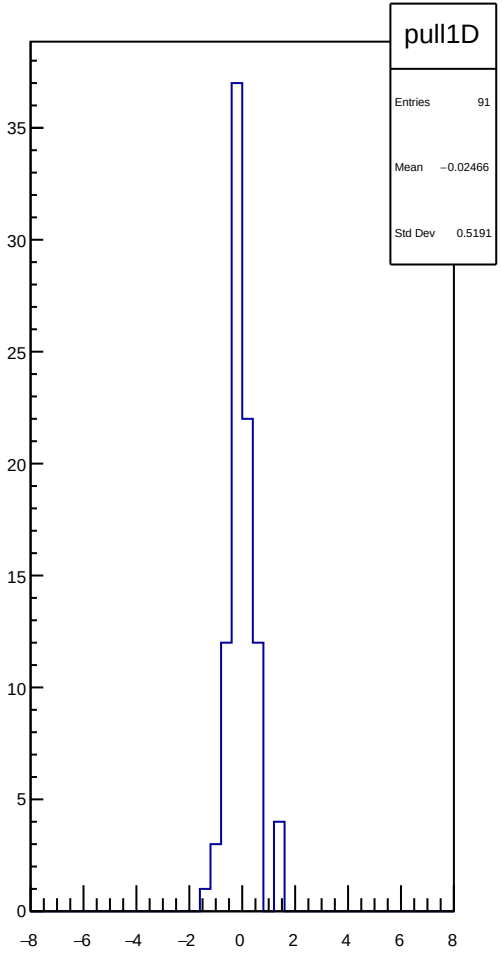

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.87 / 90
p0 −58.4 ± 1.963
pull
Entries 91
Mean 53.23
Std Dev 27.39

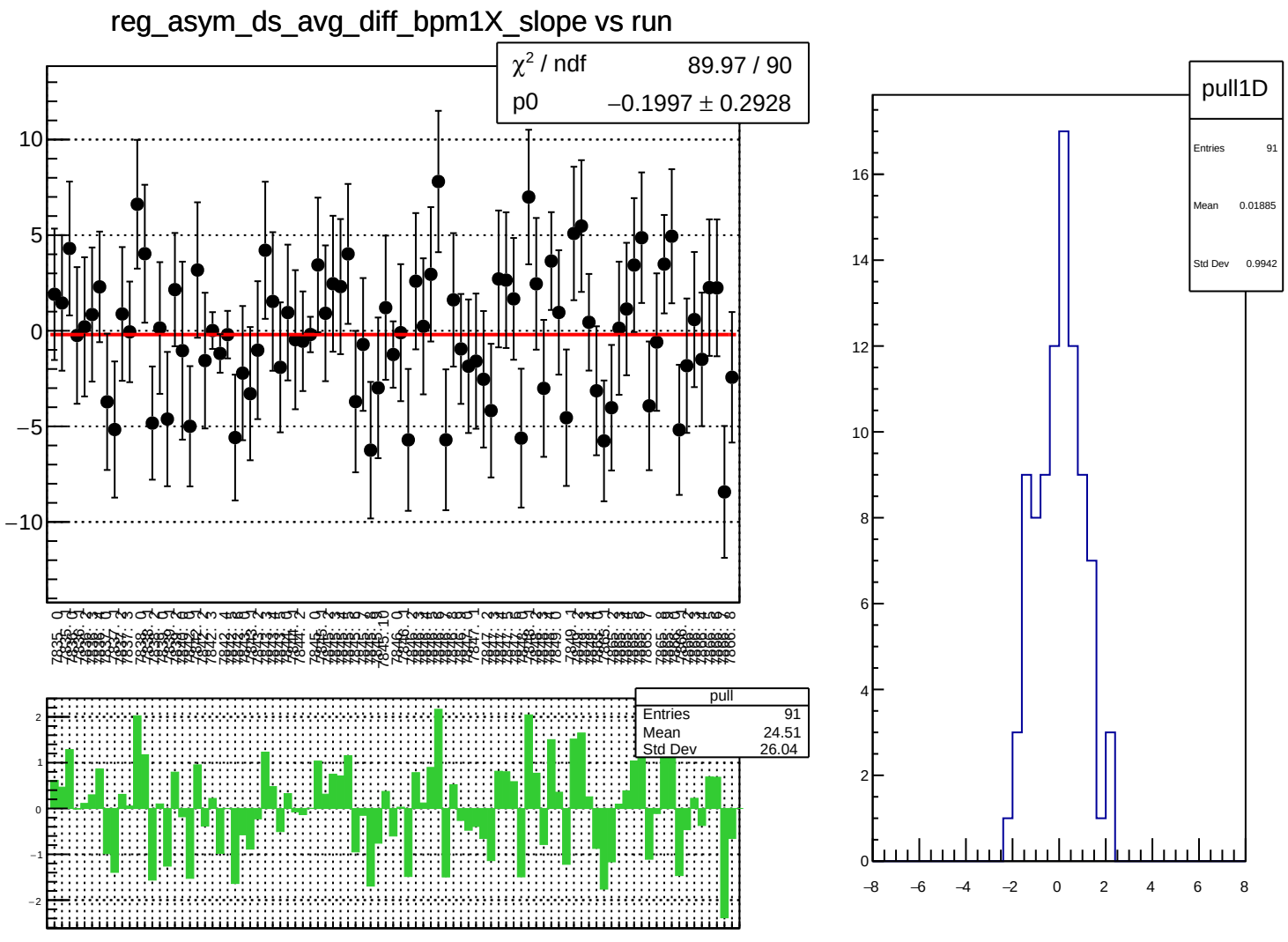

pull1D
Entries 91
Mean 0.3109
Std Dev 0.8456

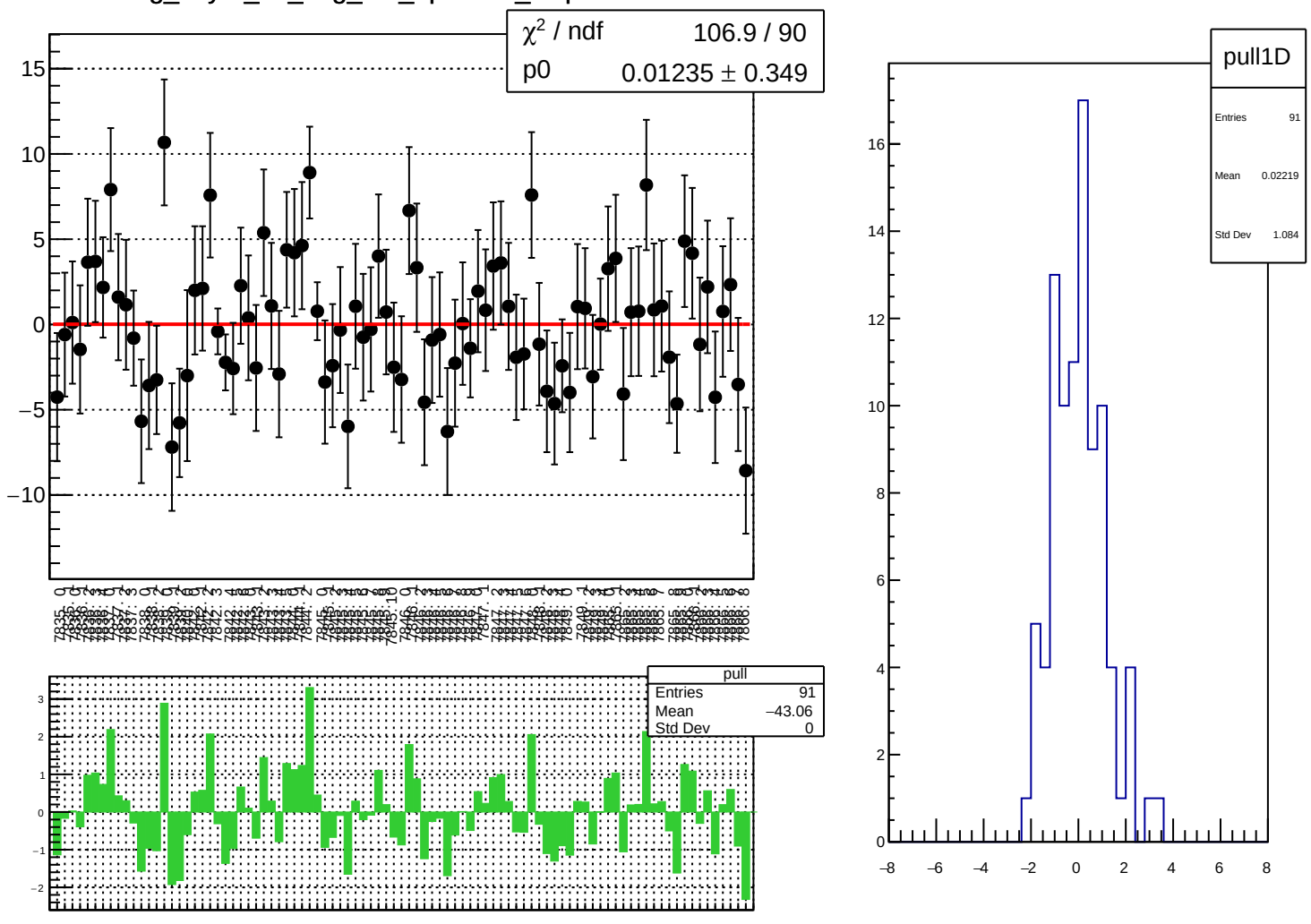

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.88 / 90
p0 8.52 ± 3.019
pull
Entries 91
Mean 226.5
Std Dev 0

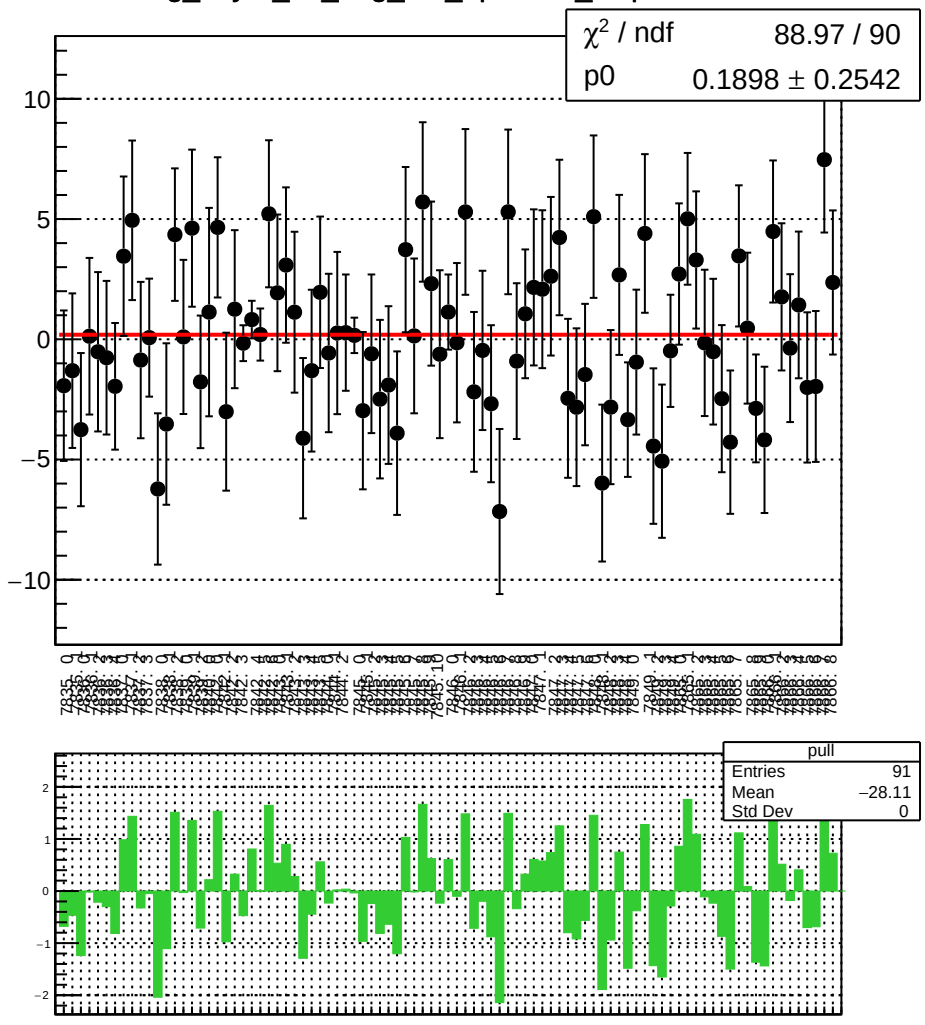

pull1D
Entries 91
Mean −0.01133
Std Dev 0.5122

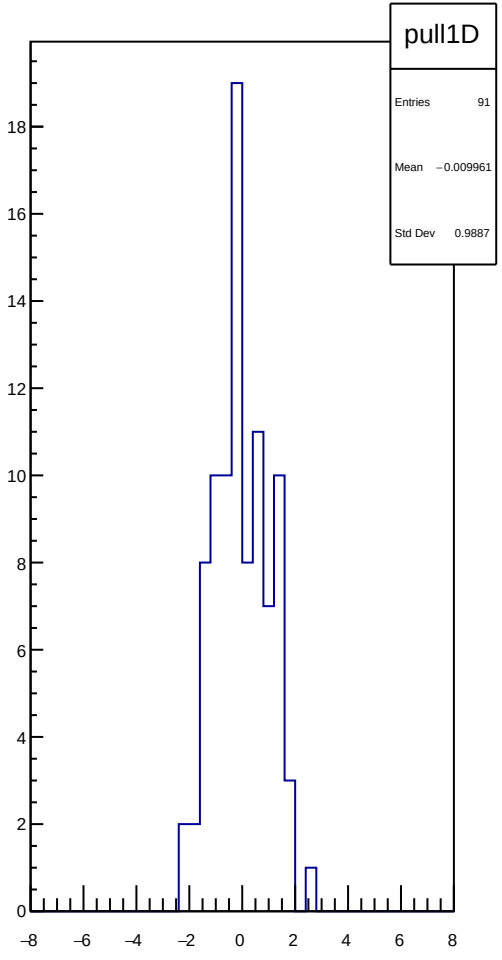

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 24.58 / 90
p0 −0.5244 ± 0.09013
pull
Entries 91
Mean 260.8
Std Dev 0

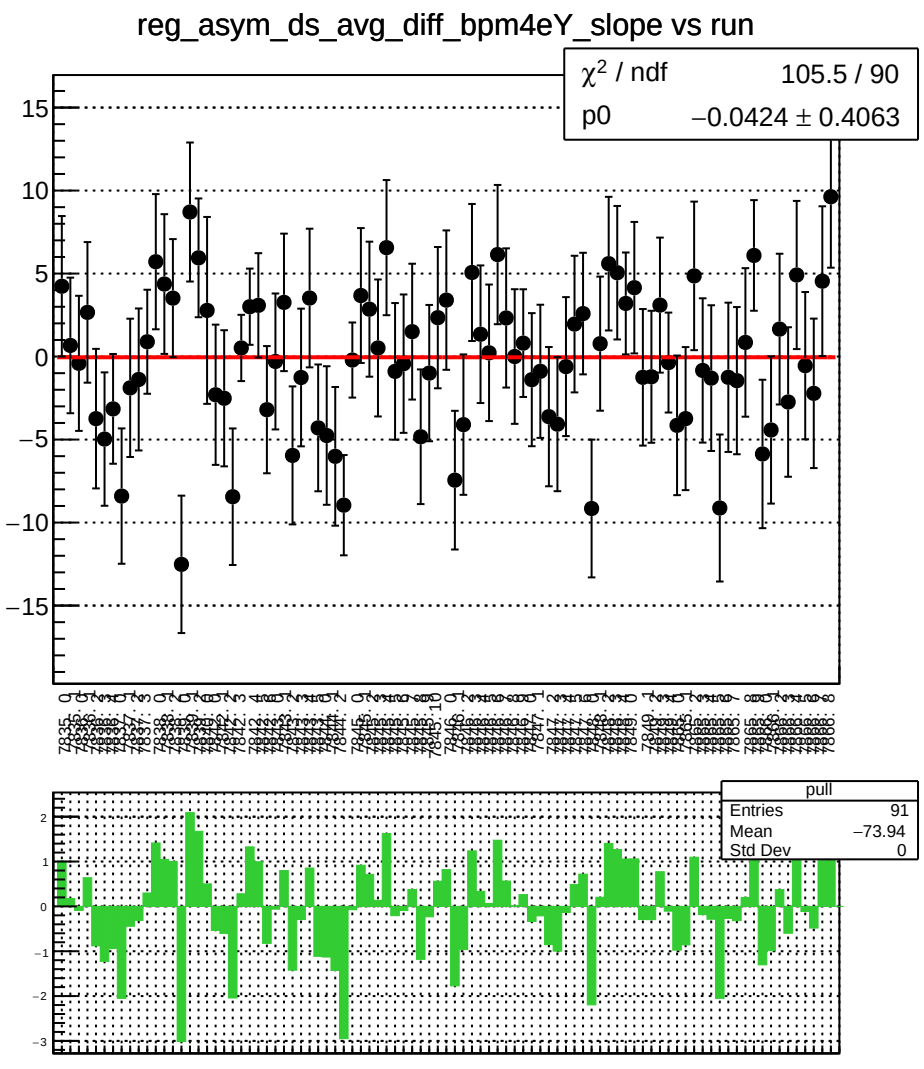

pull1D
Entries 91
Mean −0.02466
Std Dev 0.5191

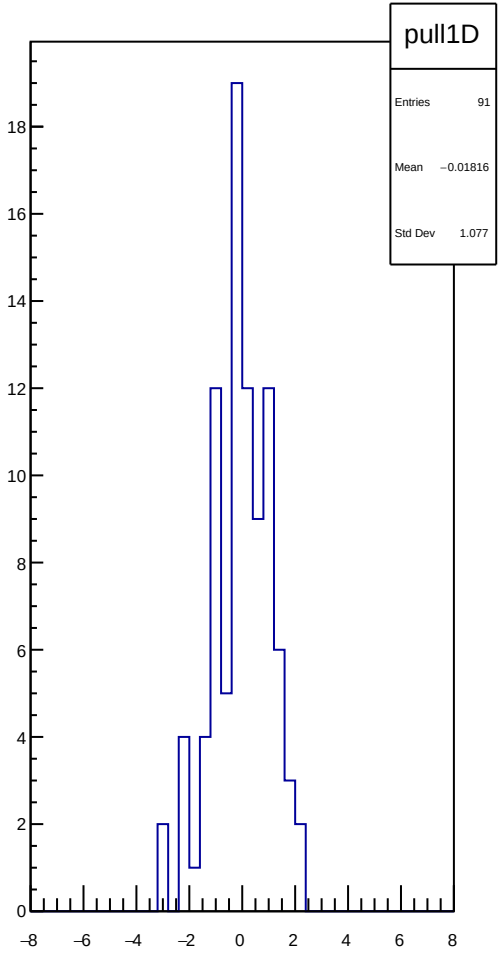

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 89.97 / 90
p0 −0.1997 ± 0.2928
pull
Entries 91
Mean 24.51
Std Dev 26.04
pull1D
Entries 91
Mean 0.01885
Std Dev 0.9942

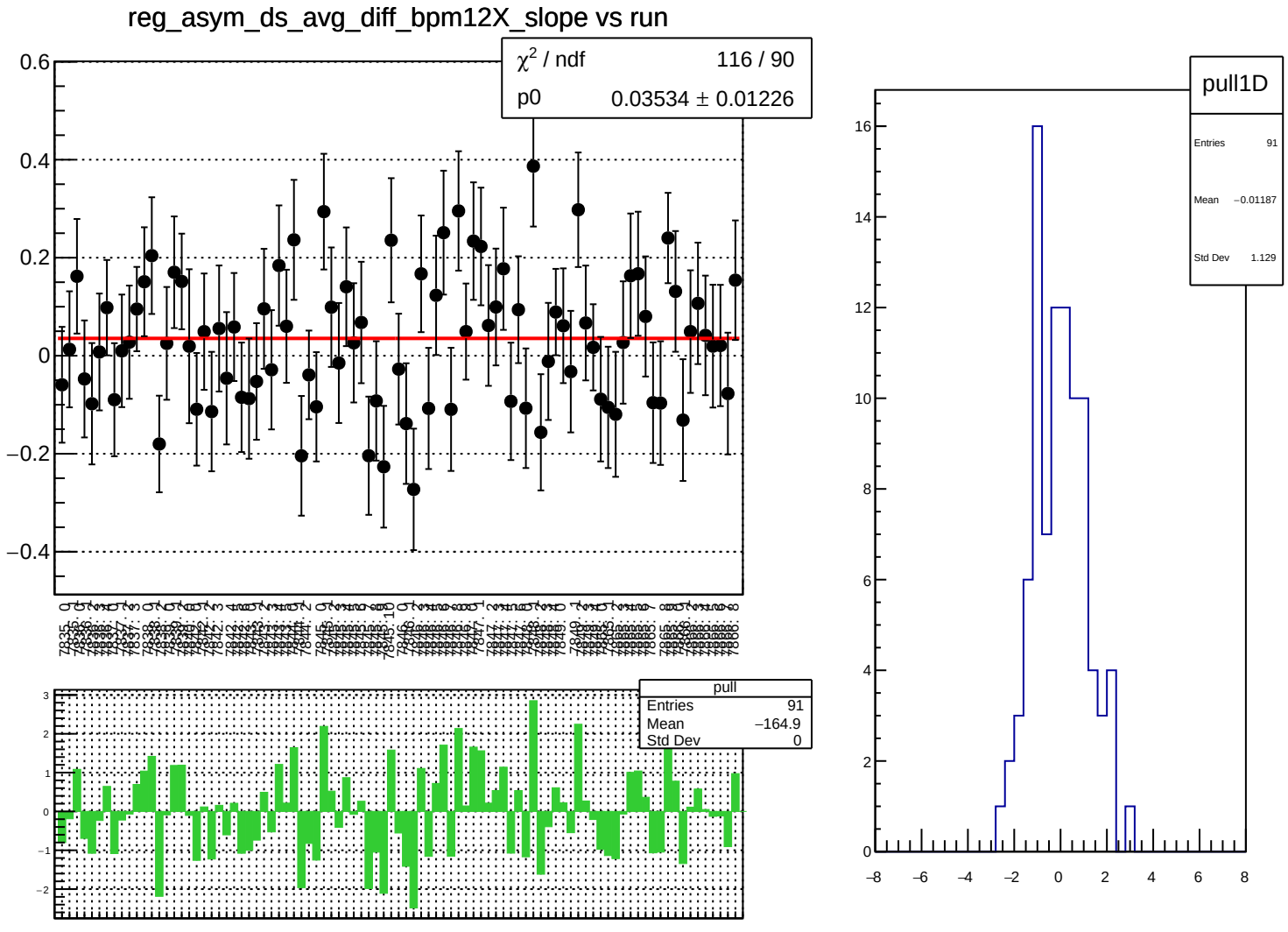

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 106.9 / 90
p0 0.01235 ± 0.349
pull
Entries 91
Mean −43.06
Std Dev 0
pull1D
Entries 91
Mean 0.02219
Std Dev 1.084

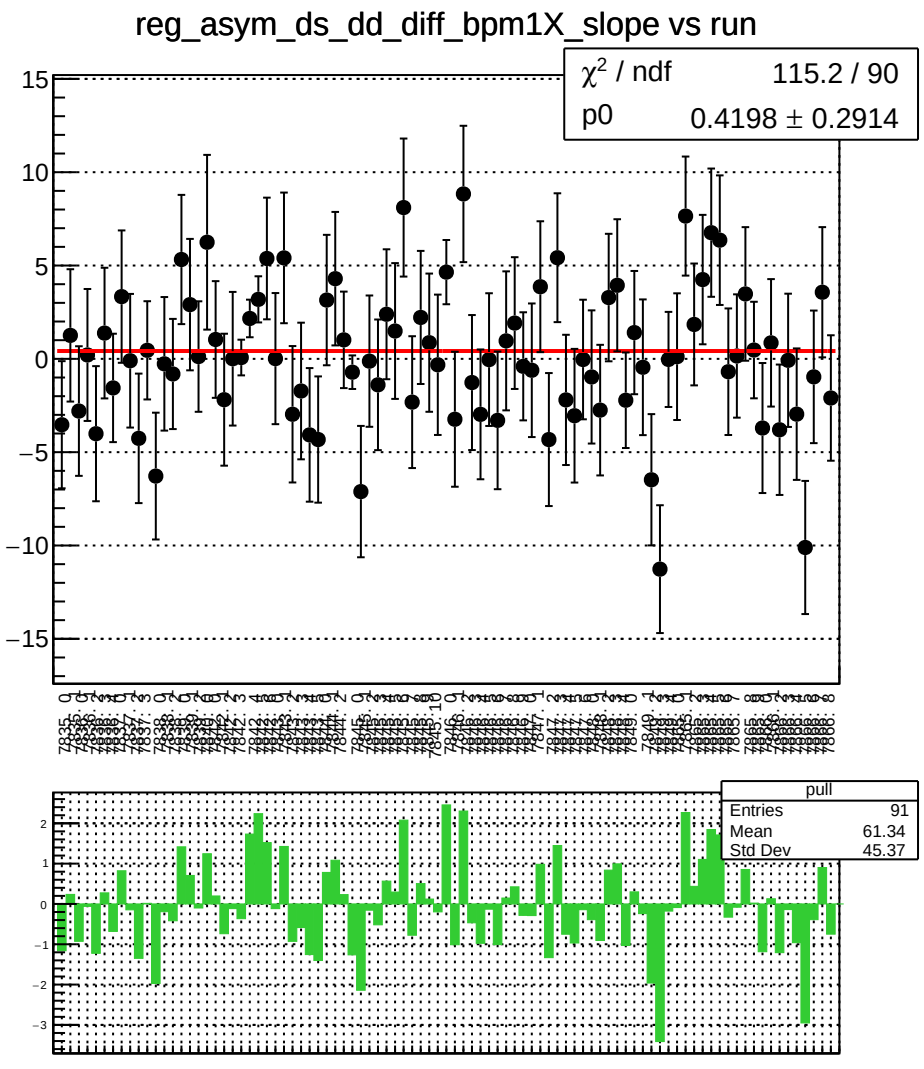

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.97 / 90
p0 0.1898 ± 0.2542
pull
Entries 91
Mean −28.11
Std Dev 0

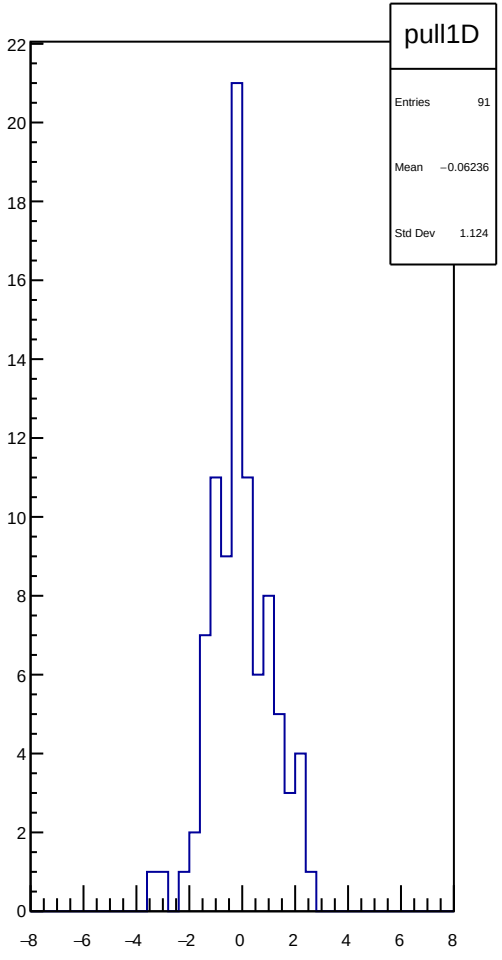

pull1D
Entries 91
Mean −0.009961
Std Dev 0.9887

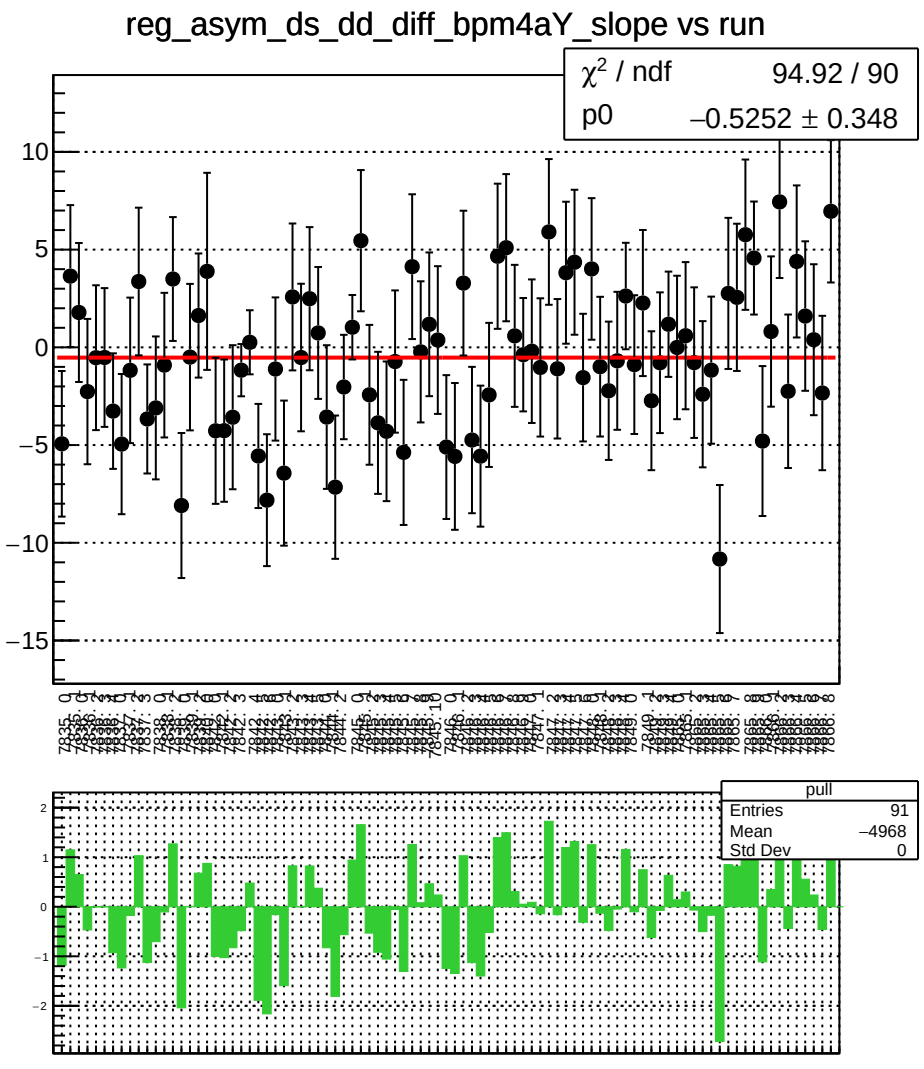

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 105.5 / 90
p0 −0.0424 ± 0.4063
pull
Entries 91
Mean −73.94
Std Dev 0

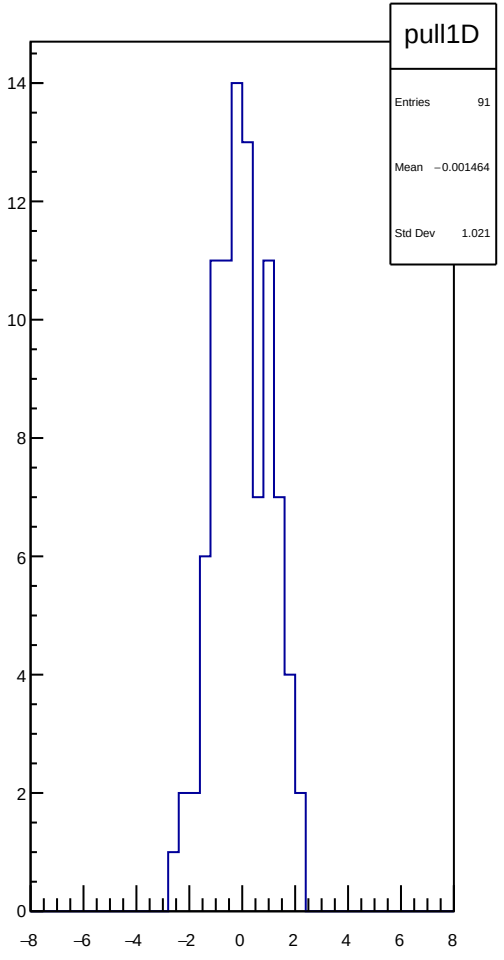

pull1D
Entries 91
Mean −0.01816
Std Dev 1.077

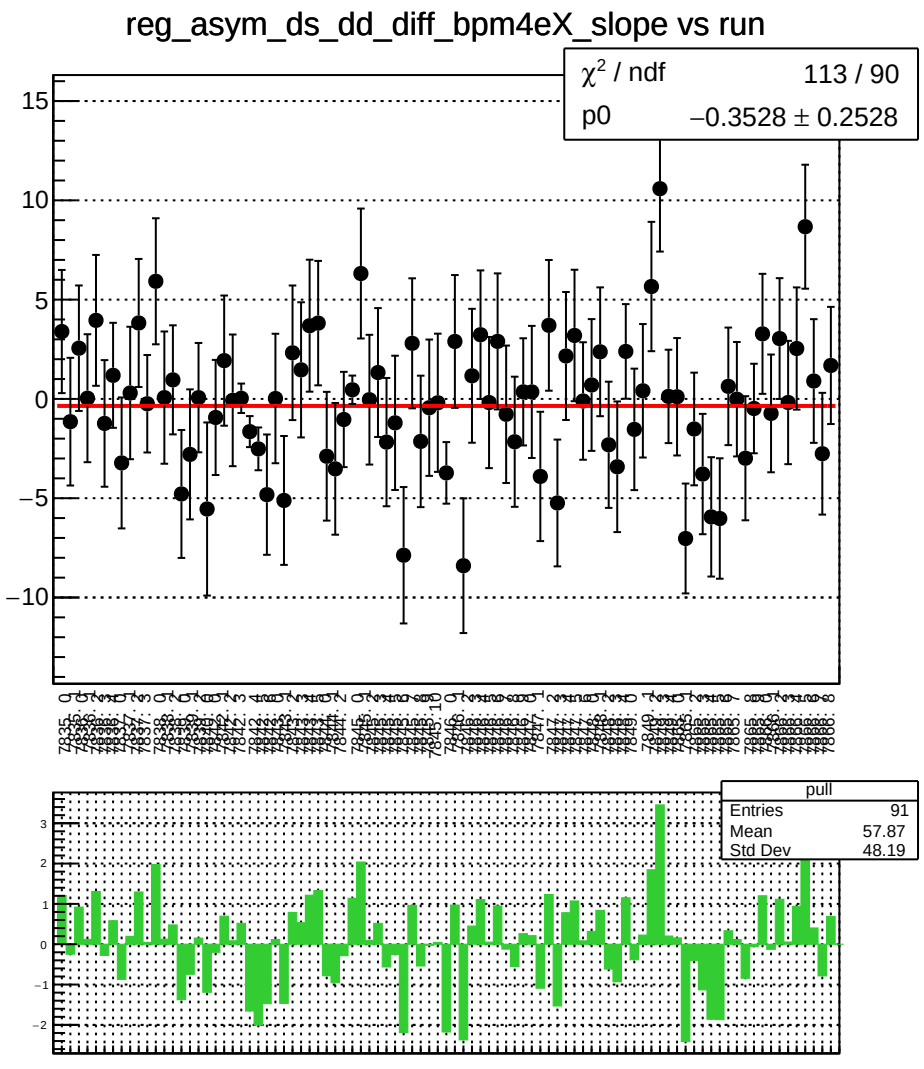

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 116 / 90
p0 0.03534 ± 0.01226
pull
Entries 91
Mean −164.9
Std Dev 0
pull1D
Entries 91
Mean −0.01187
Std Dev 1.129

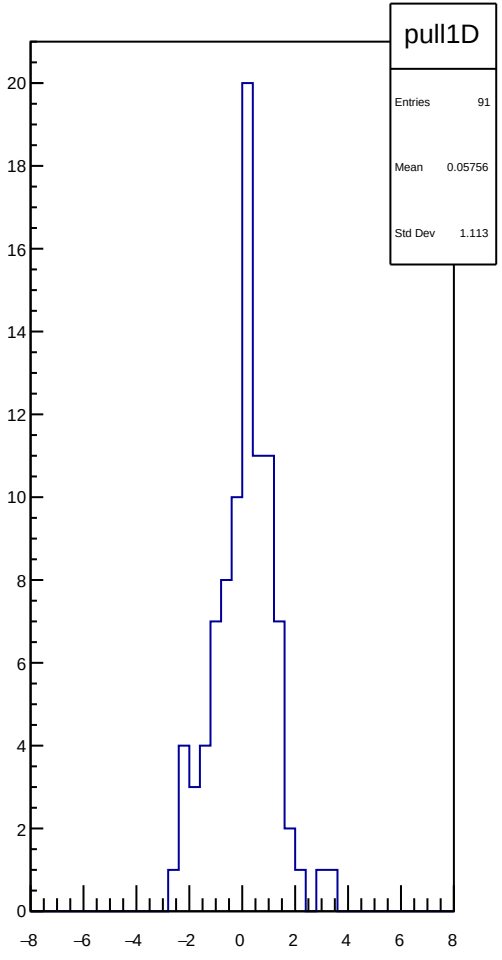

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 115.2 / 90
p0 0.4198 ± 0.2914
pull
Entries 91
Mean 61.34
Std Dev 45.37

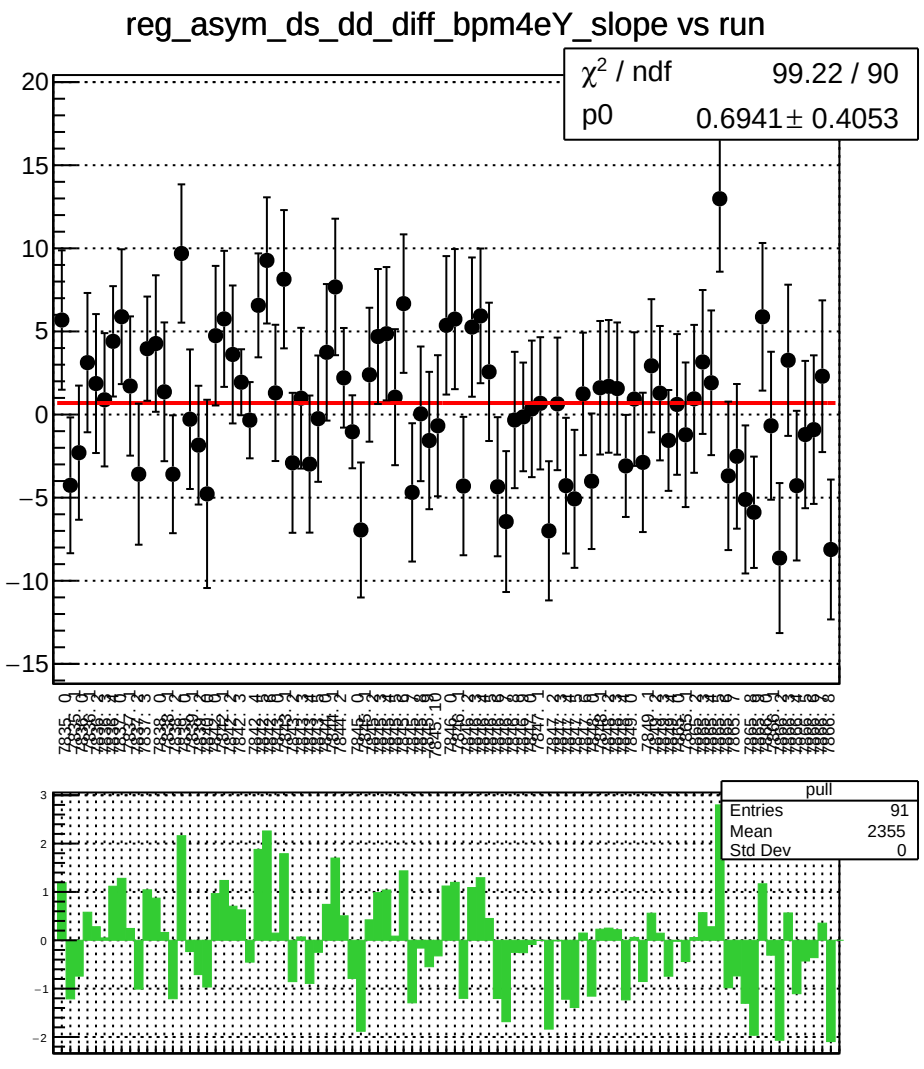

pull1D
Entries 91
Mean −0.06236
Std Dev 1.124

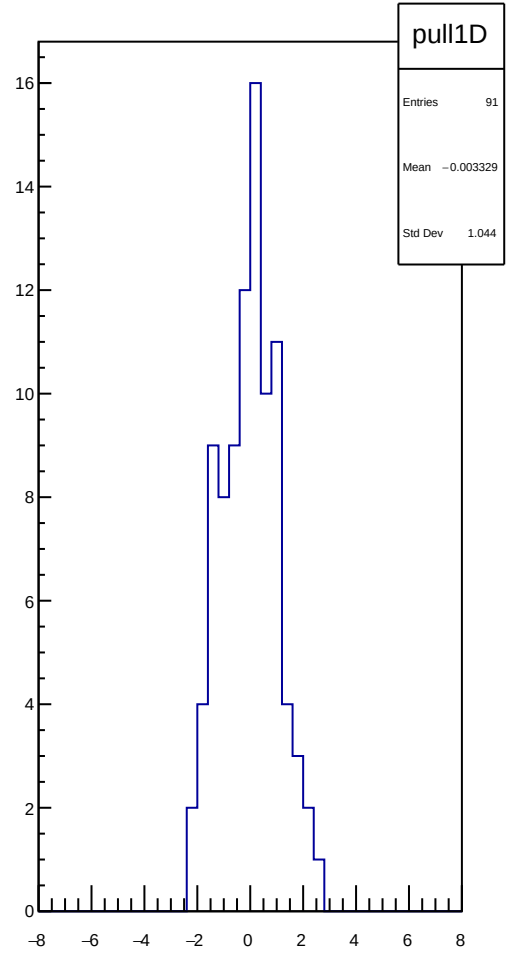

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.92 / 90
p0 −0.5252 ± 0.348
pull
Entries 91
Mean −4968
Std Dev 0

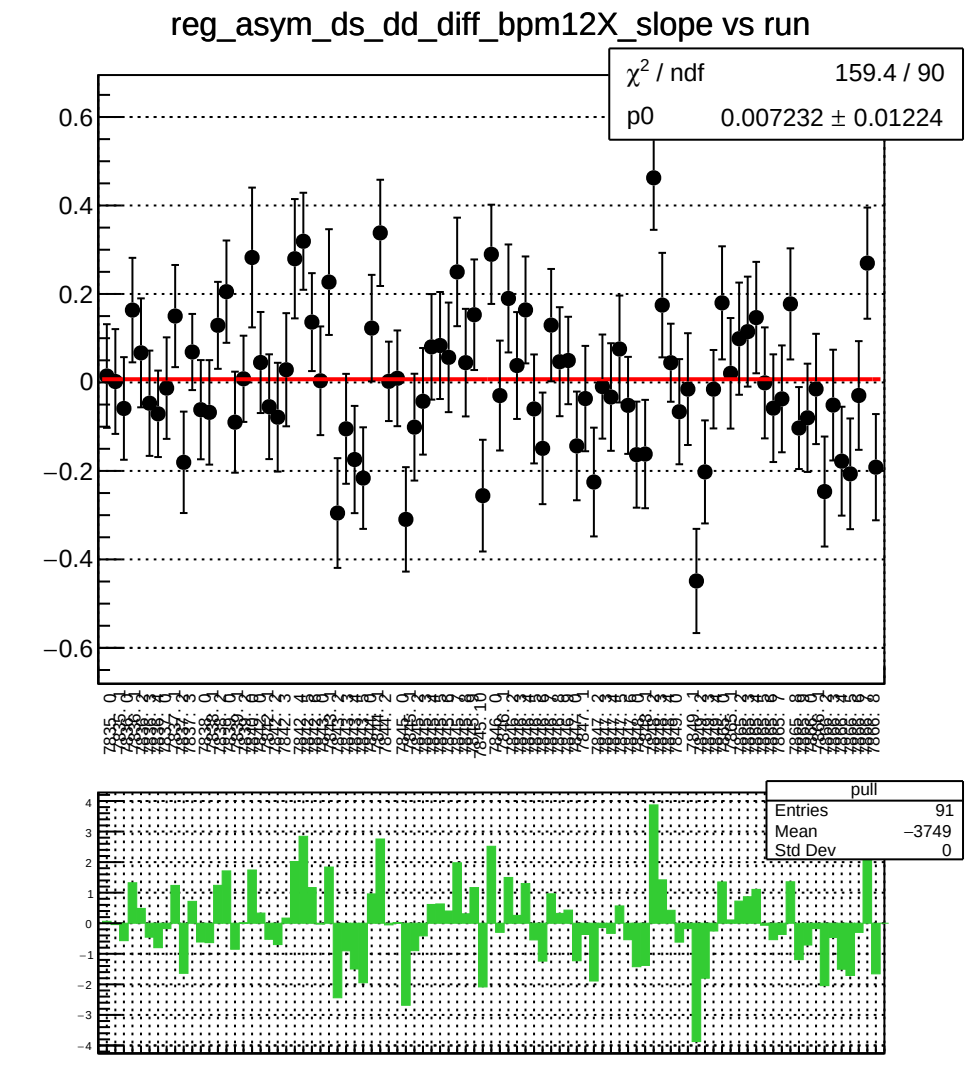

pull1D
Entries 91
Mean −0.001464
Std Dev 1.021

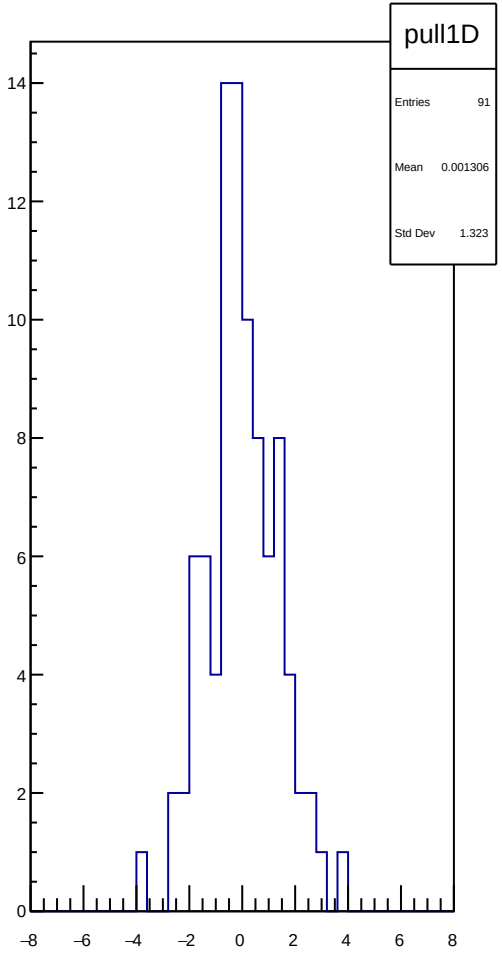

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 113 / 90
p0 −0.3528 ± 0.2528
pull
Entries 91
Mean 57.87
Std Dev 48.19

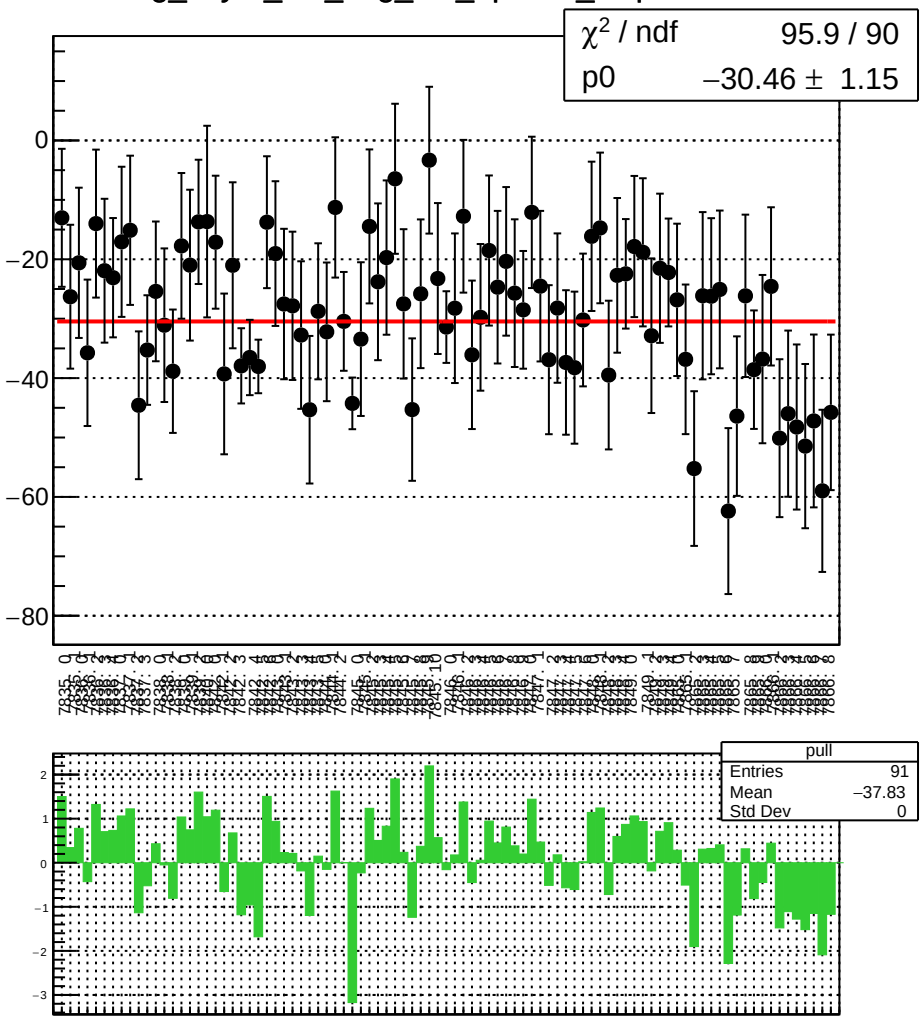

pull1D
Entries 91
Mean 0.05756
Std Dev 1.113

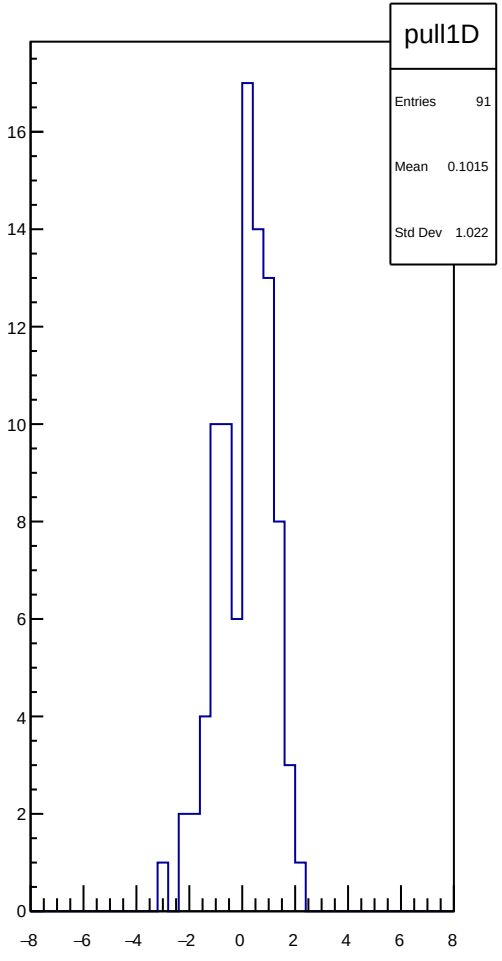

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.22 / 90
p0 0.6941 ± 0.4053
pull
Entries 91
Mean 2355
Std Dev 0

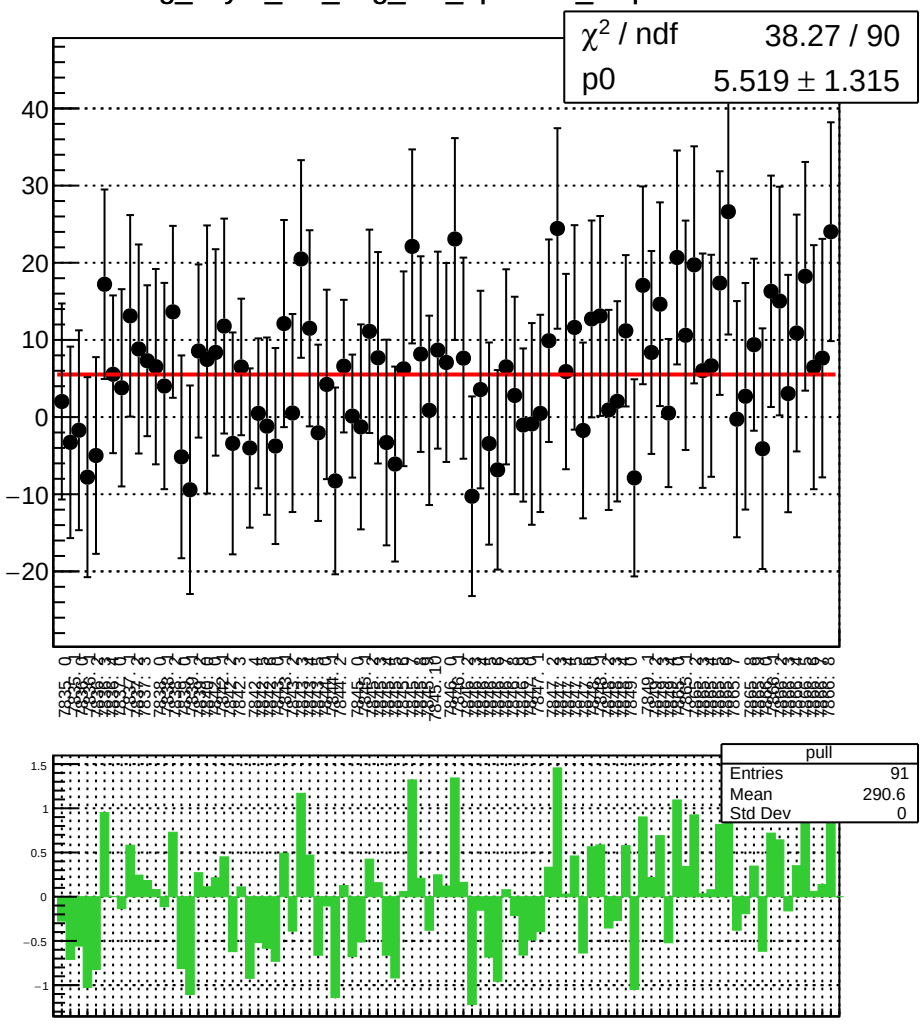

pull1D
Entries 91
Mean −0.003329
Std Dev 1.044

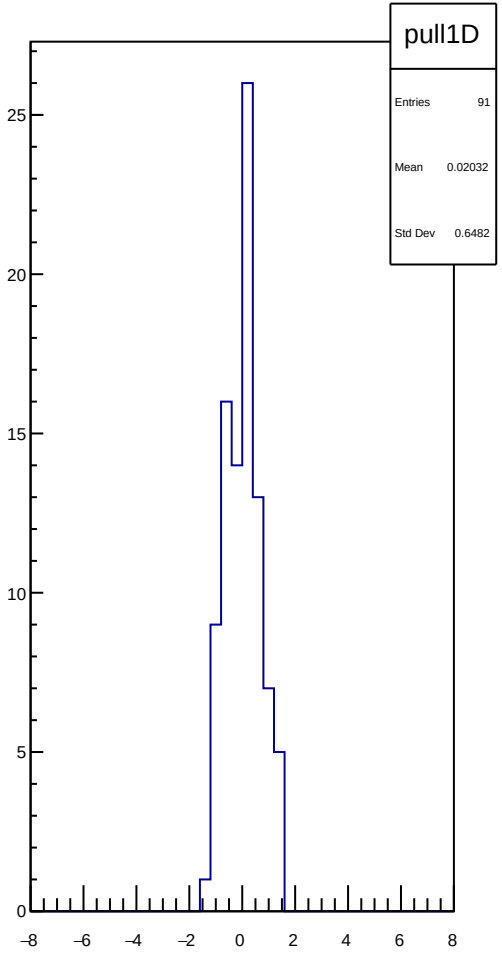

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 159.4 / 90
p0 0.007232 ± 0.01224
pull
Entries 91
Mean −3749
Std Dev 0

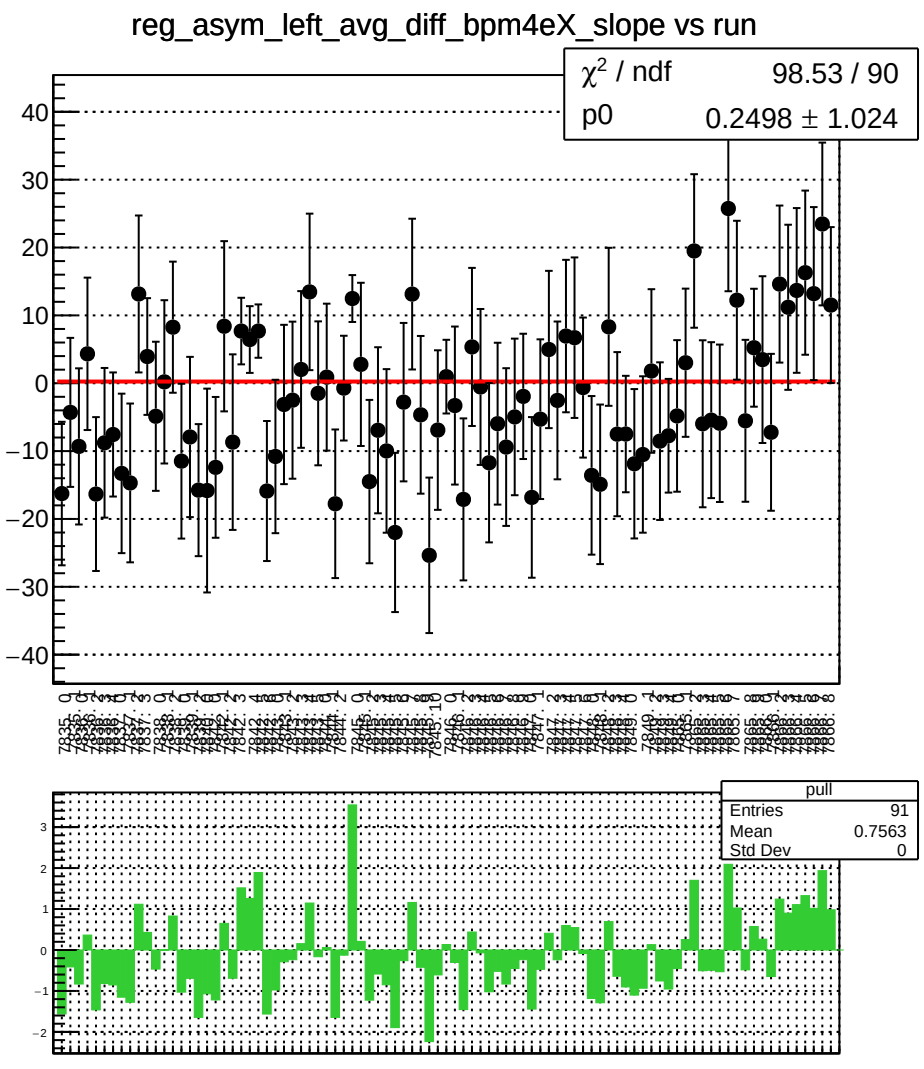

pull1D
Entries 91
Mean 0.001306
Std Dev 1.323

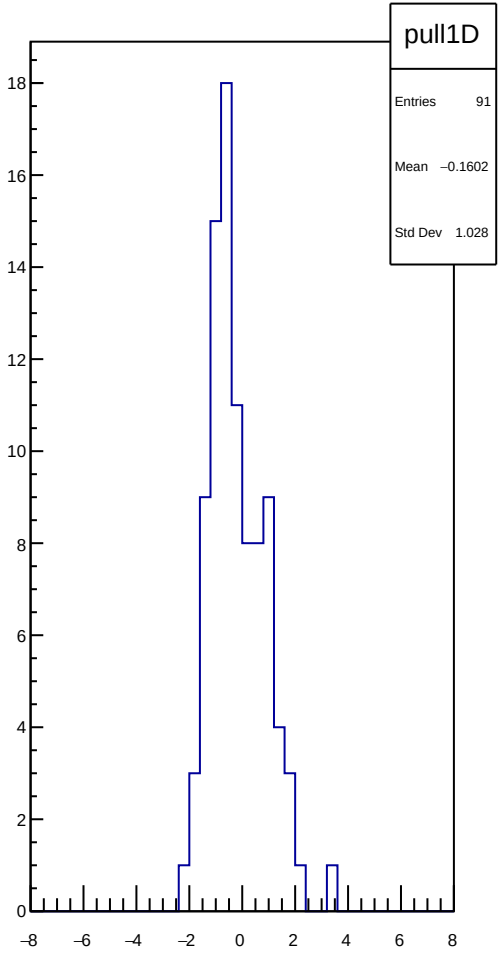

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 95.9 / 90
p0 −30.46 ± 1.15
pull
Entries 91
Mean −37.83
Std Dev 0

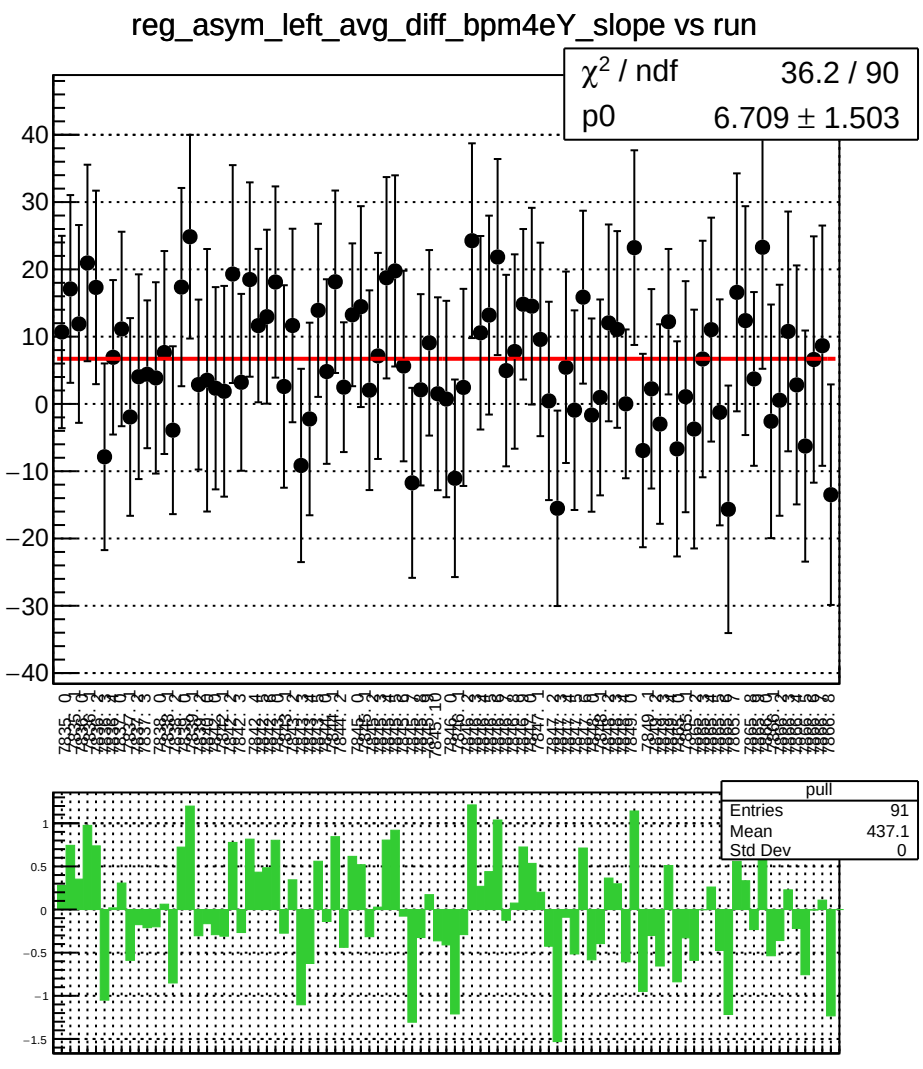

pull1D
Entries 91
Mean 0.1015
Std Dev 1.022

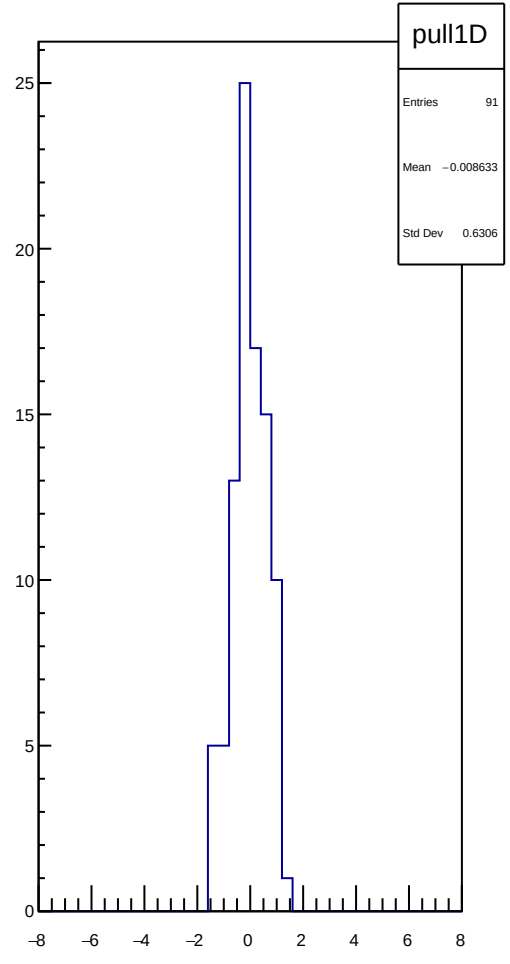

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.27 / 90
p0 5.519 ± 1.315
pull
Entries 91
Mean 290.6
Std Dev 0

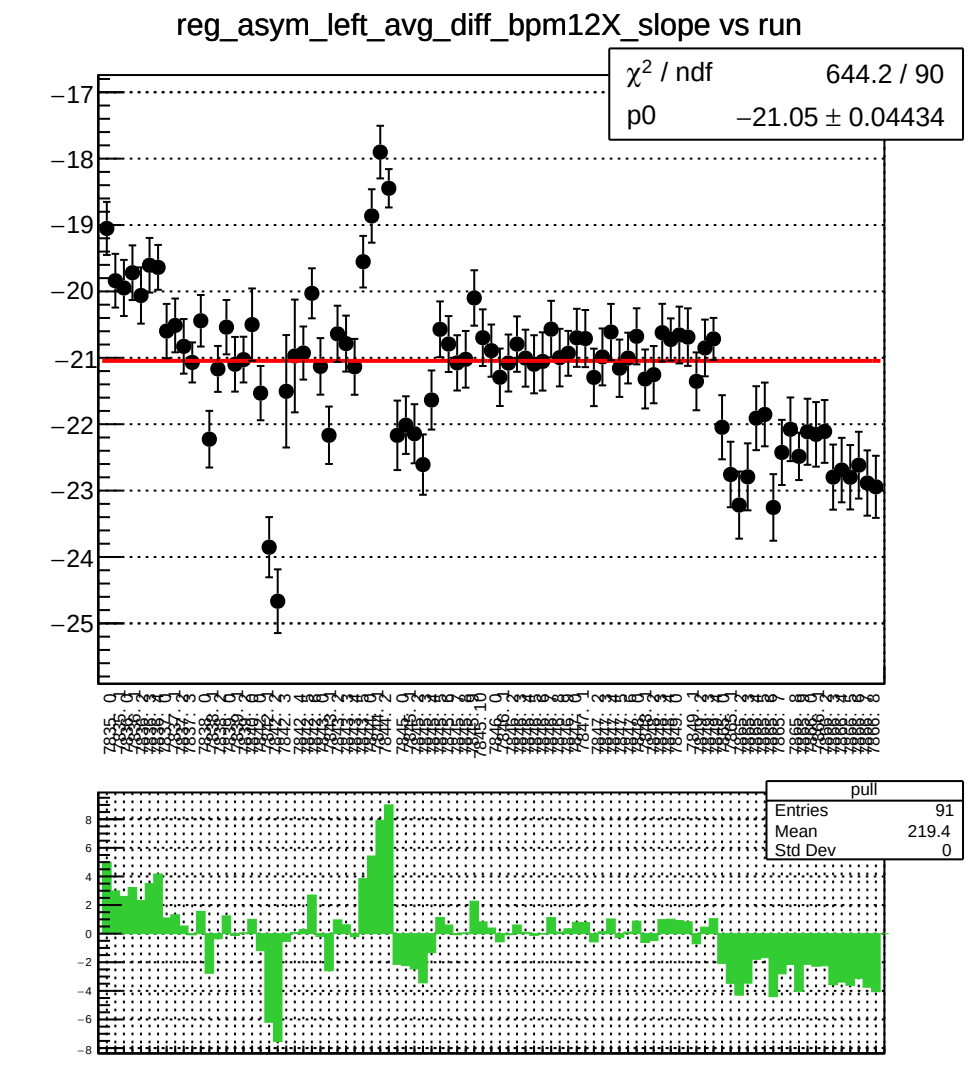

pull1D
Entries 91
Mean 0.02032
Std Dev 0.6482

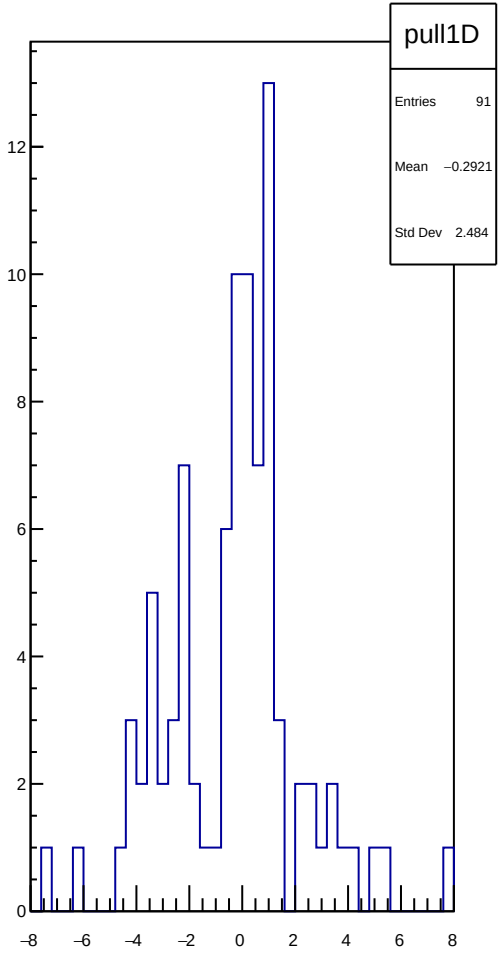

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.53 / 90
p0 0.2498 ± 1.024
pull
Entries 91
Mean 0.7563
Std Dev 0

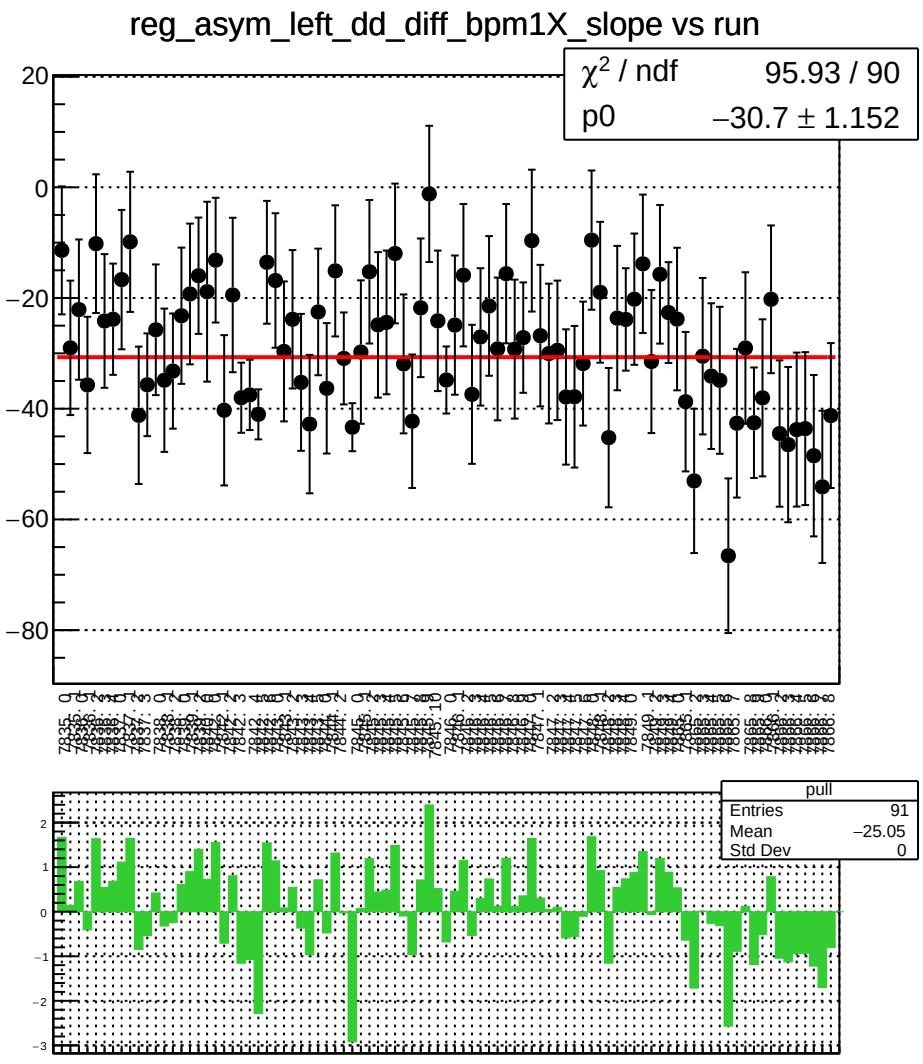

pull1D
Entries 91
Mean −0.1602
Std Dev 1.028

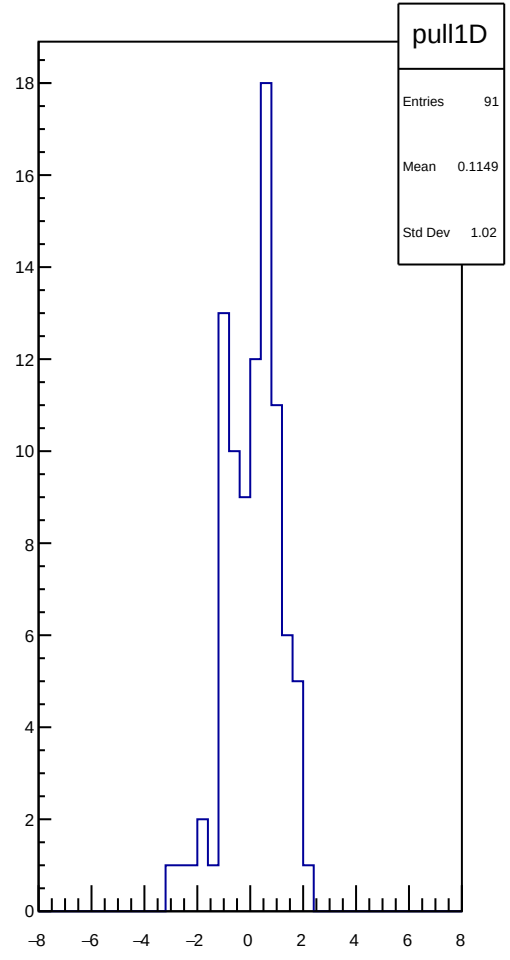

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.2 / 90
p0 6.709 ± 1.503
pull
Entries 91
Mean 437.1
Std Dev 0

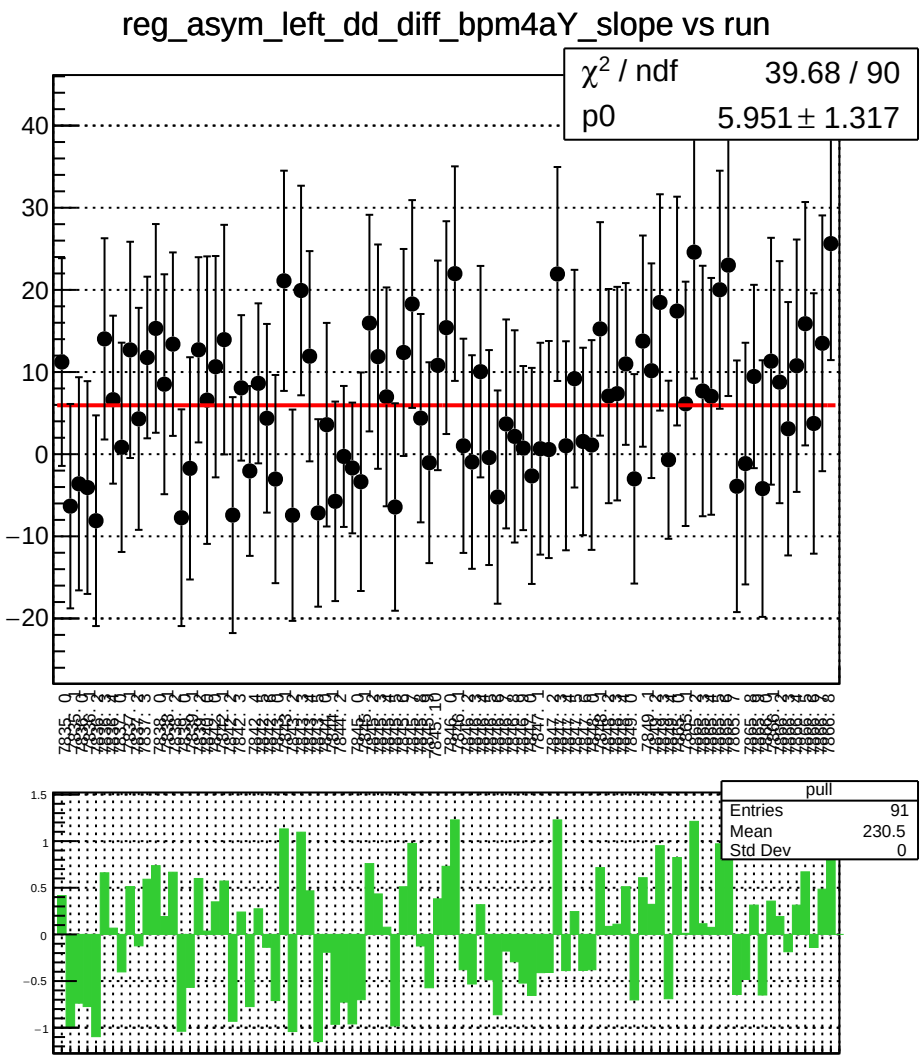

pull1D
Entries 91
Mean −0.008633
Std Dev 0.6306

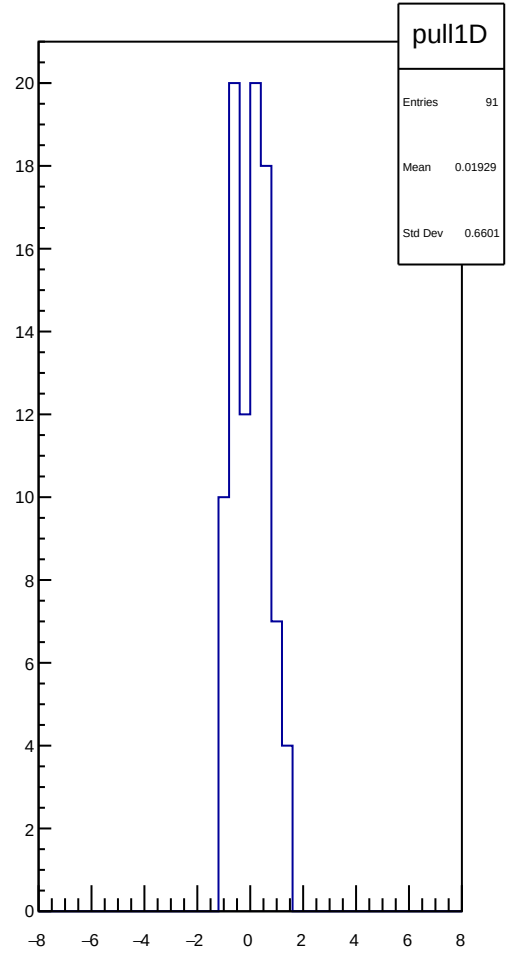

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 644.2 / 90
p0 −21.05 ± 0.04434
pull
Entries 91
Mean 219.4
Std Dev 0

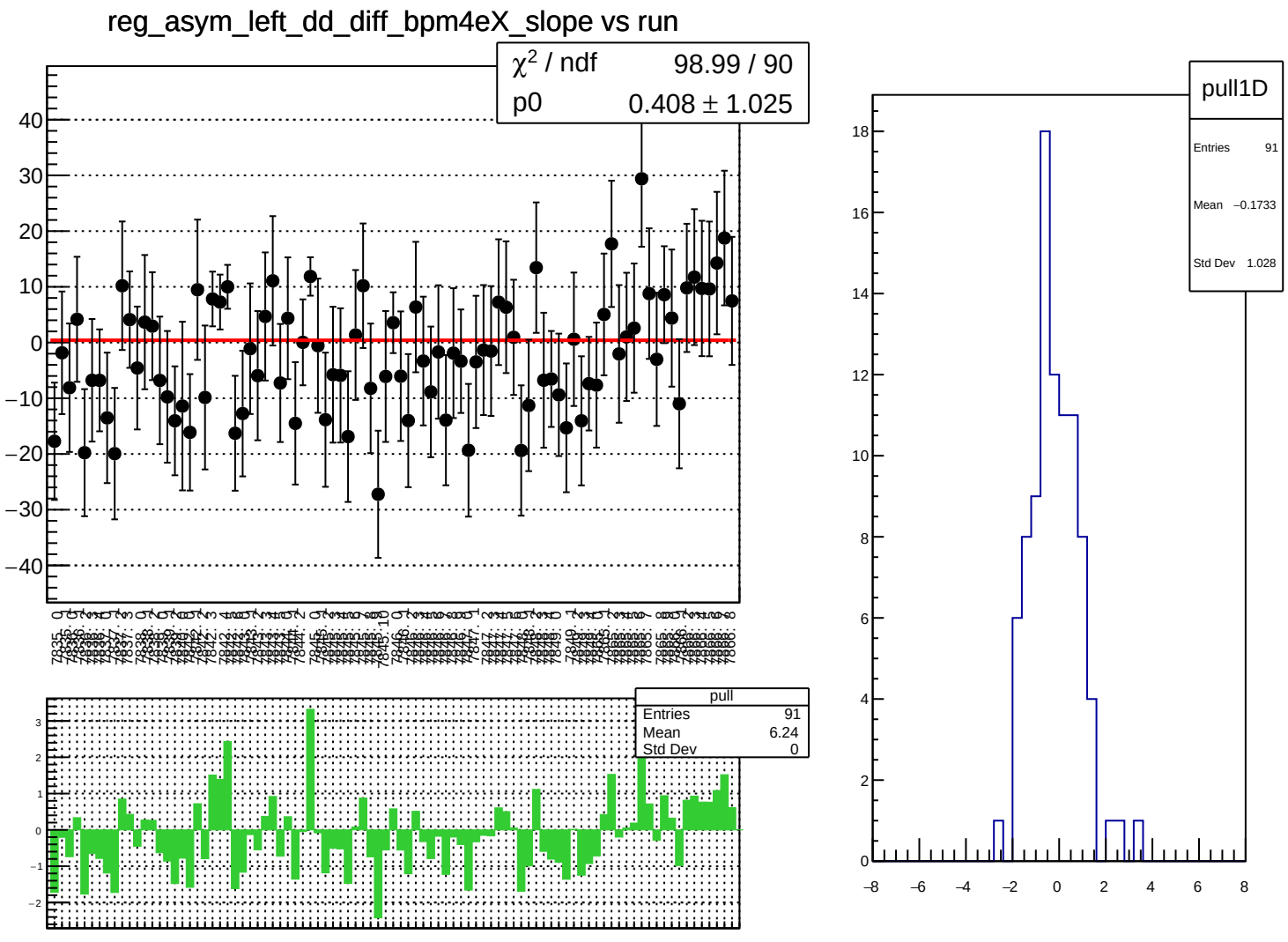

pull1D
Entries 91
Mean −0.2921
Std Dev 2.484

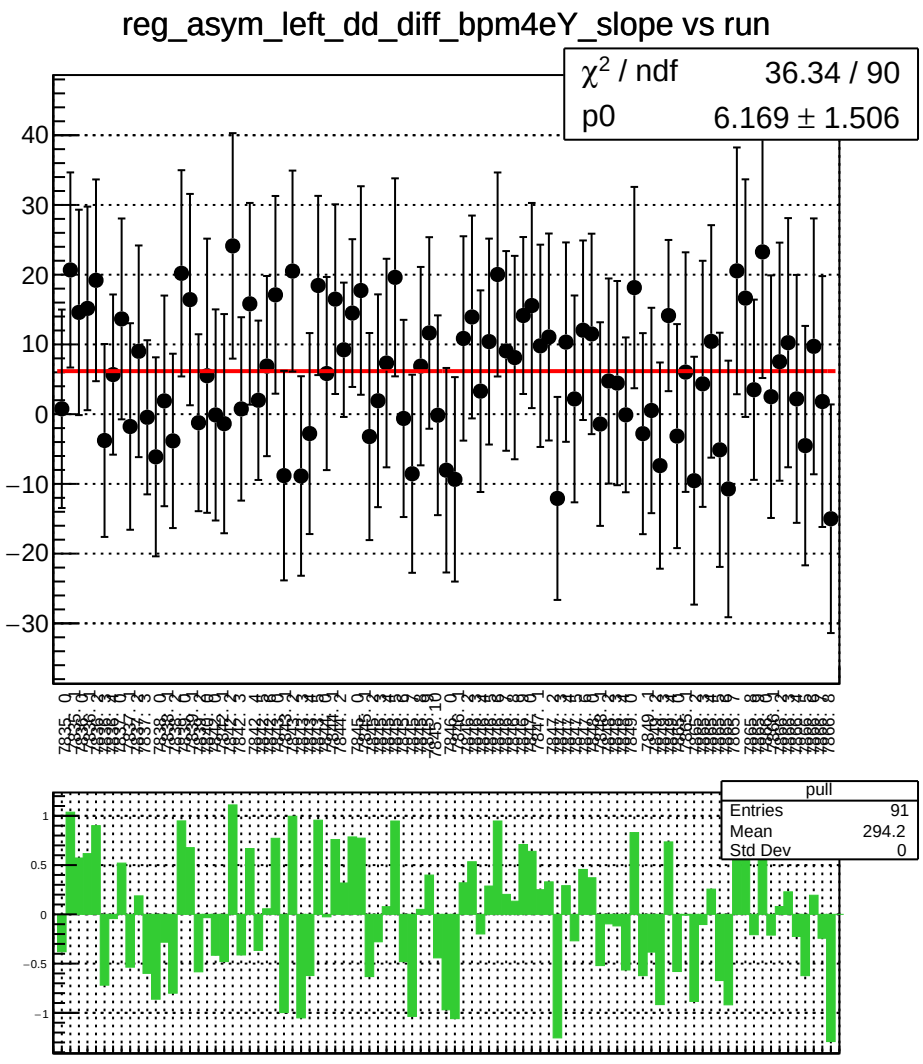

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 95.93 / 90
p0 −30.7 ± 1.152
pull
Entries 91
Mean −25.05
Std Dev 0

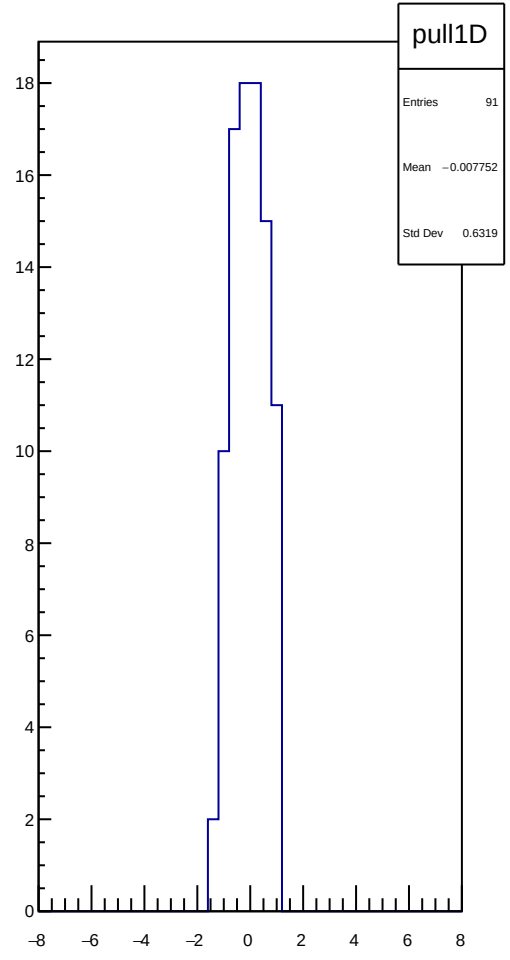

pull1D
Entries 91
Mean 0.1149
Std Dev 1.02

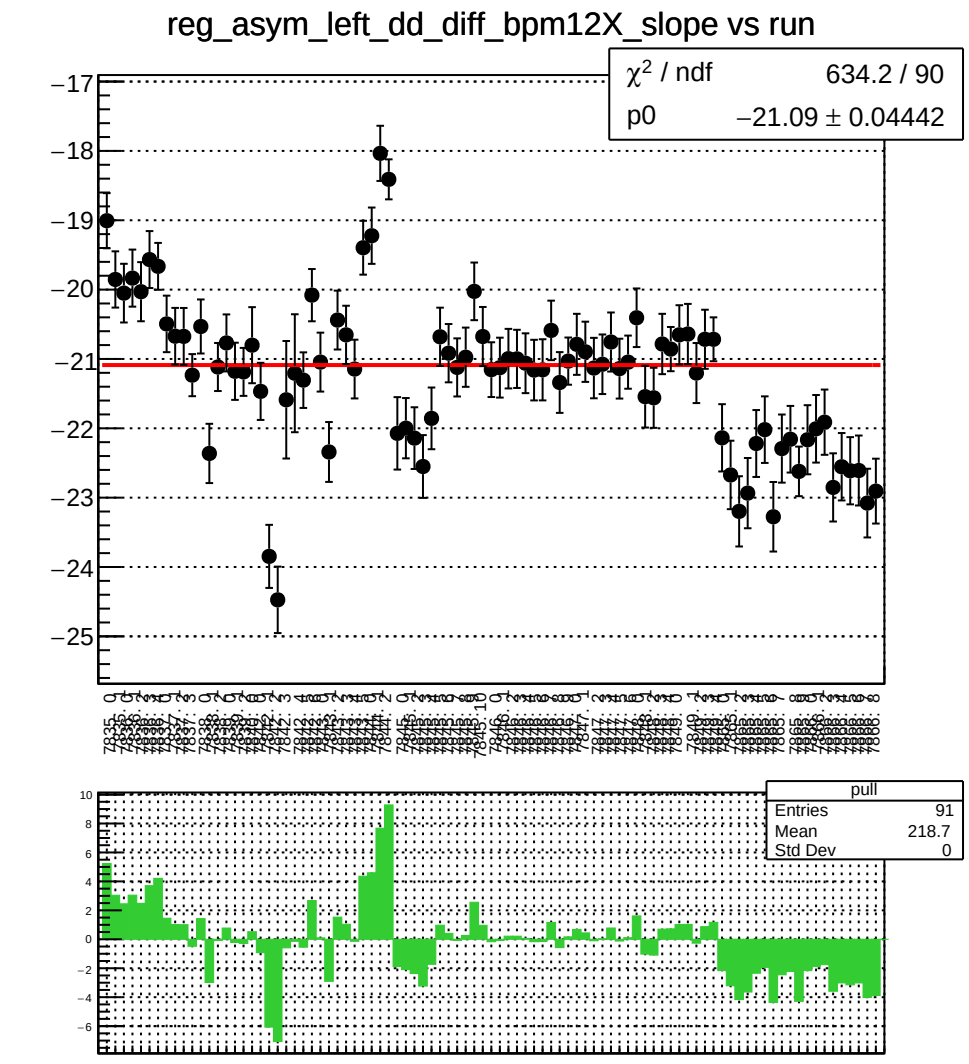

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.68 / 90
p0 5.951 ± 1.317
pull
Entries 91
Mean 230.5
Std Dev 0

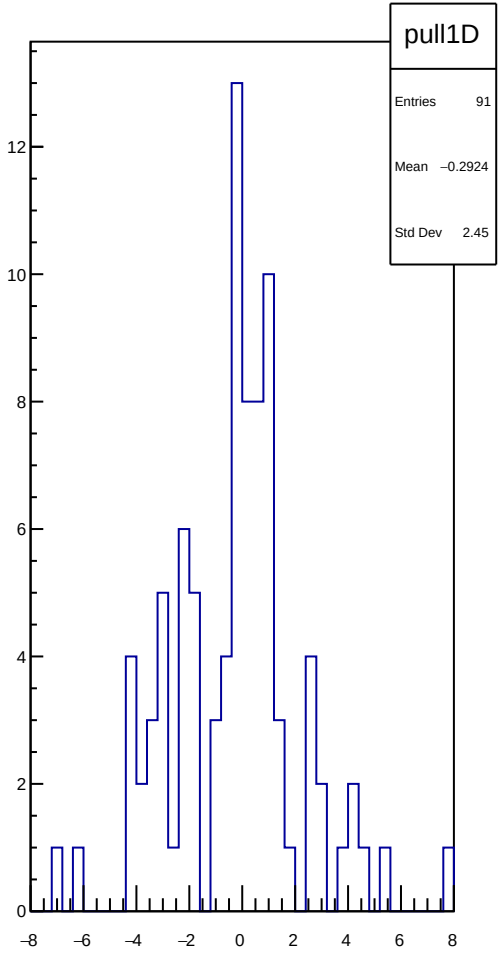

pull1D
Entries 91
Mean 0.01929
Std Dev 0.6601

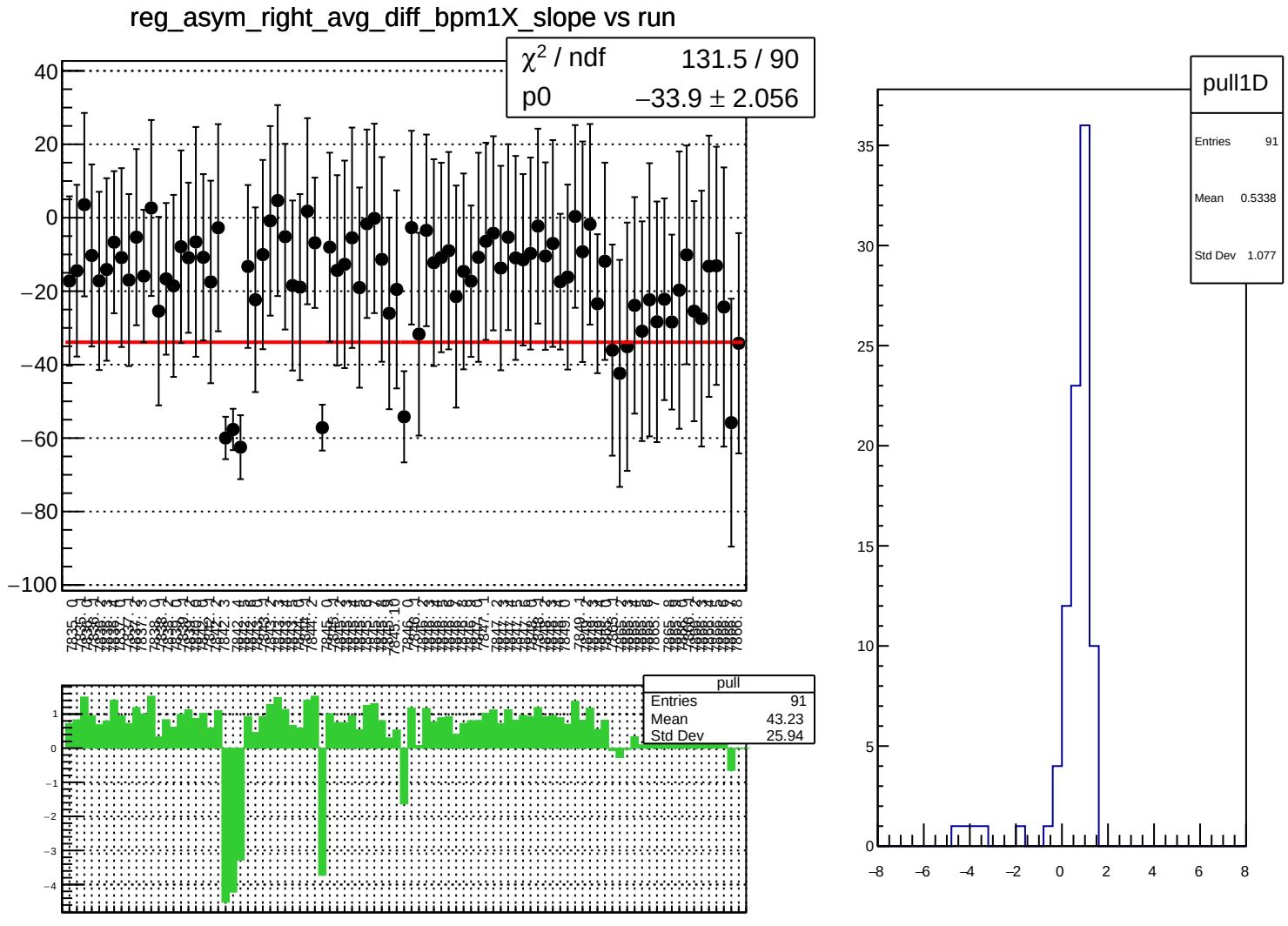

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.99 / 90
p0 0.408 ± 1.025
pull
Entries 91
Mean 6.24
Std Dev 0
pull1D
Entries 91
Mean −0.1733
Std Dev 1.028

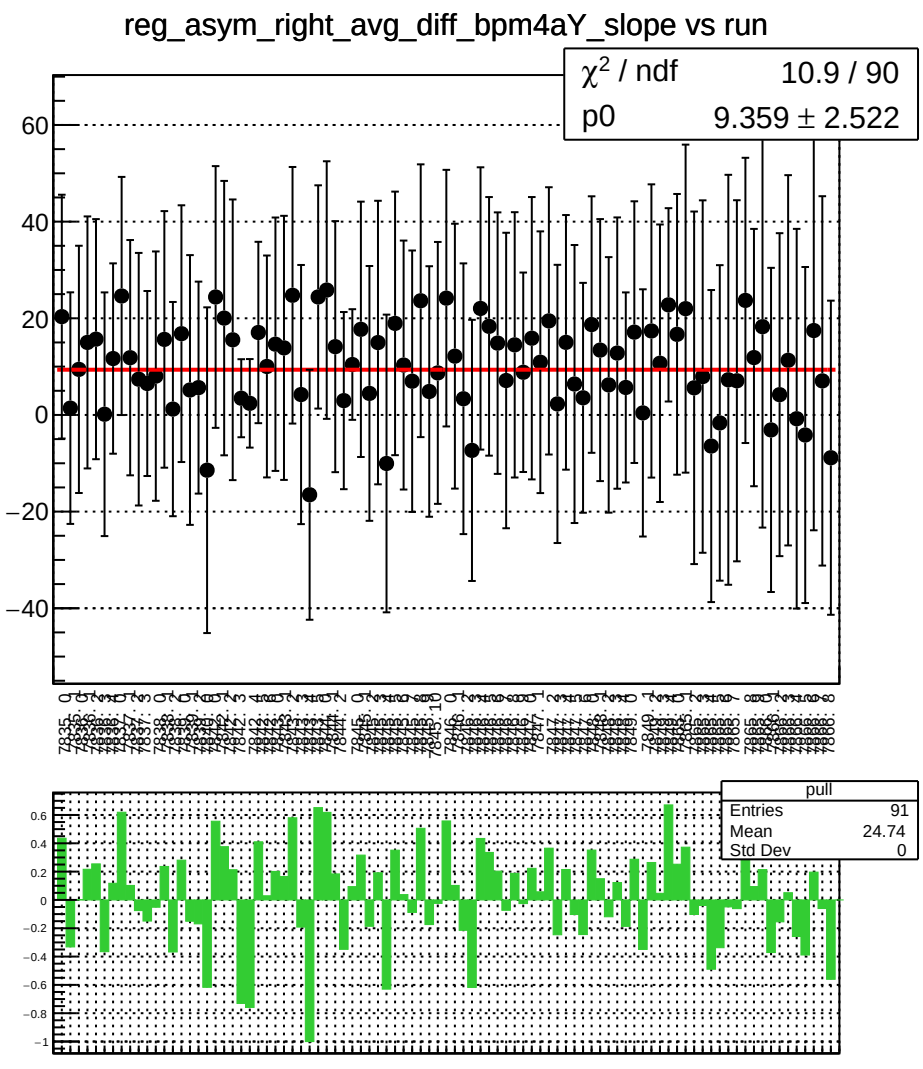

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.34 / 90
p0 6.169 ± 1.506
pull
Entries 91
Mean 294.2
Std Dev 0

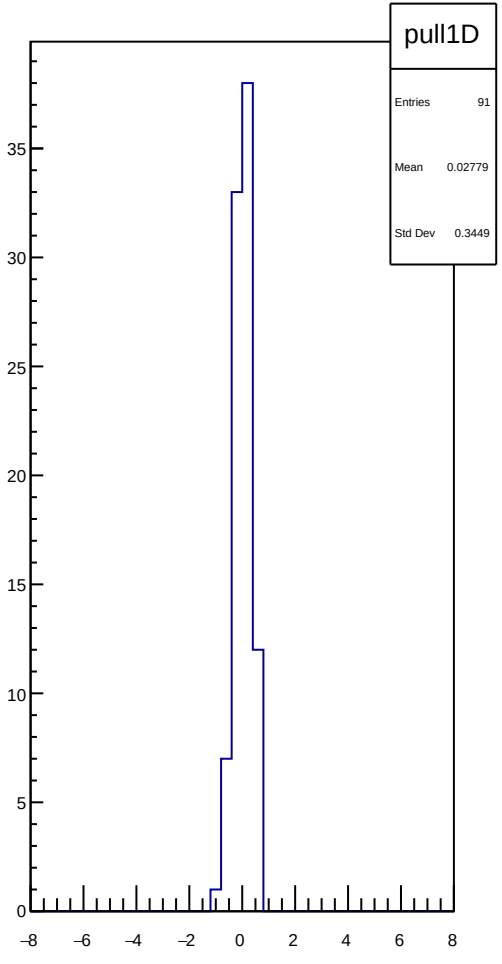

pull1D
Entries 91
Mean −0.007752
Std Dev 0.6319

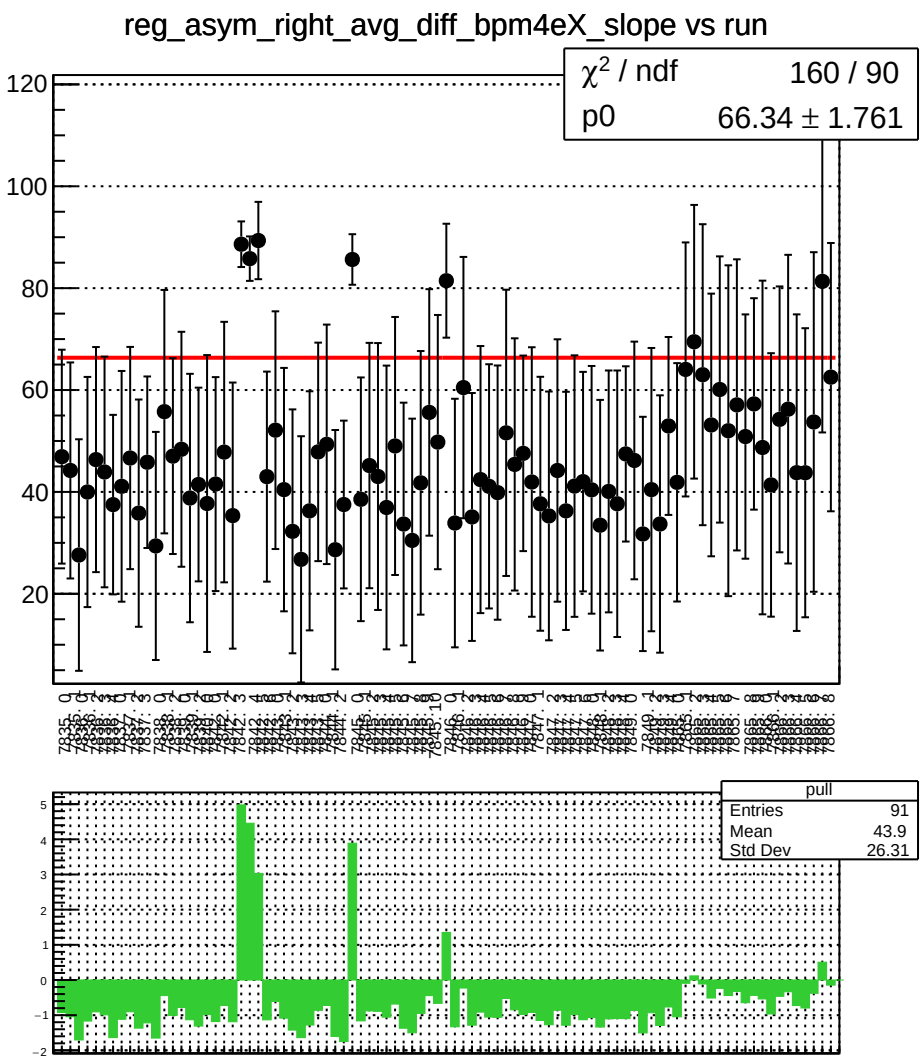

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 634.2 / 90
p0 −21.09 ± 0.04442
pull
Entries 91
Mean 218.7
Std Dev 0

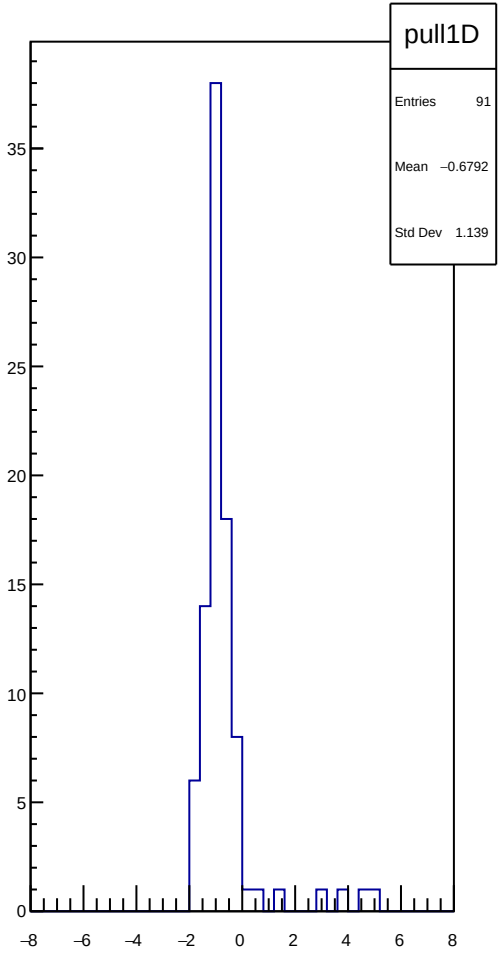

pull1D
Entries 91
Mean −0.2924
Std Dev 2.45

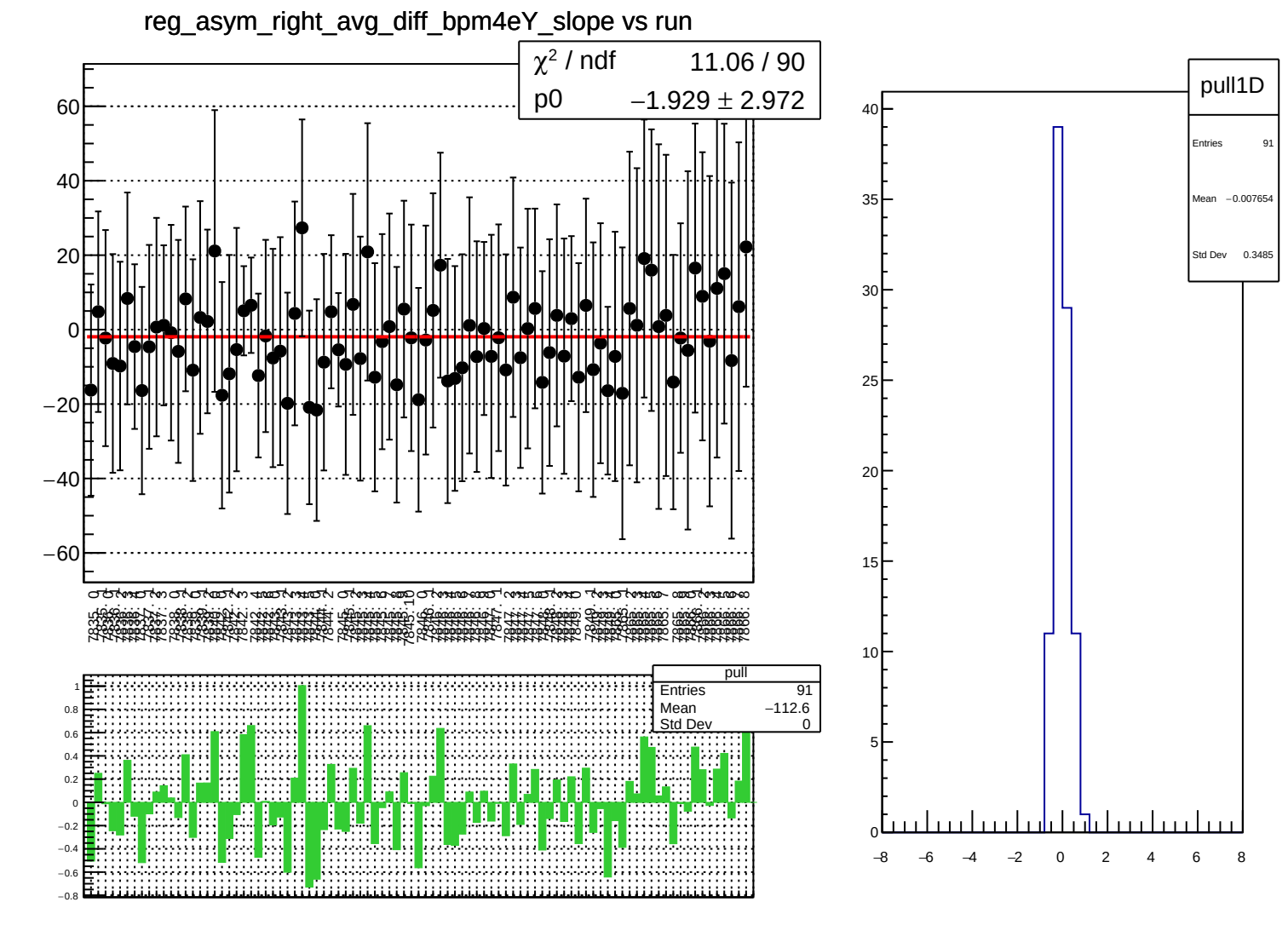

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 131.5 / 90
p0 −33.9 ± 2.056
pull
Entries 91
Mean 43.23
Std Dev 25.94
pull1D
Entries 91
Mean 0.5338
Std Dev 1.077

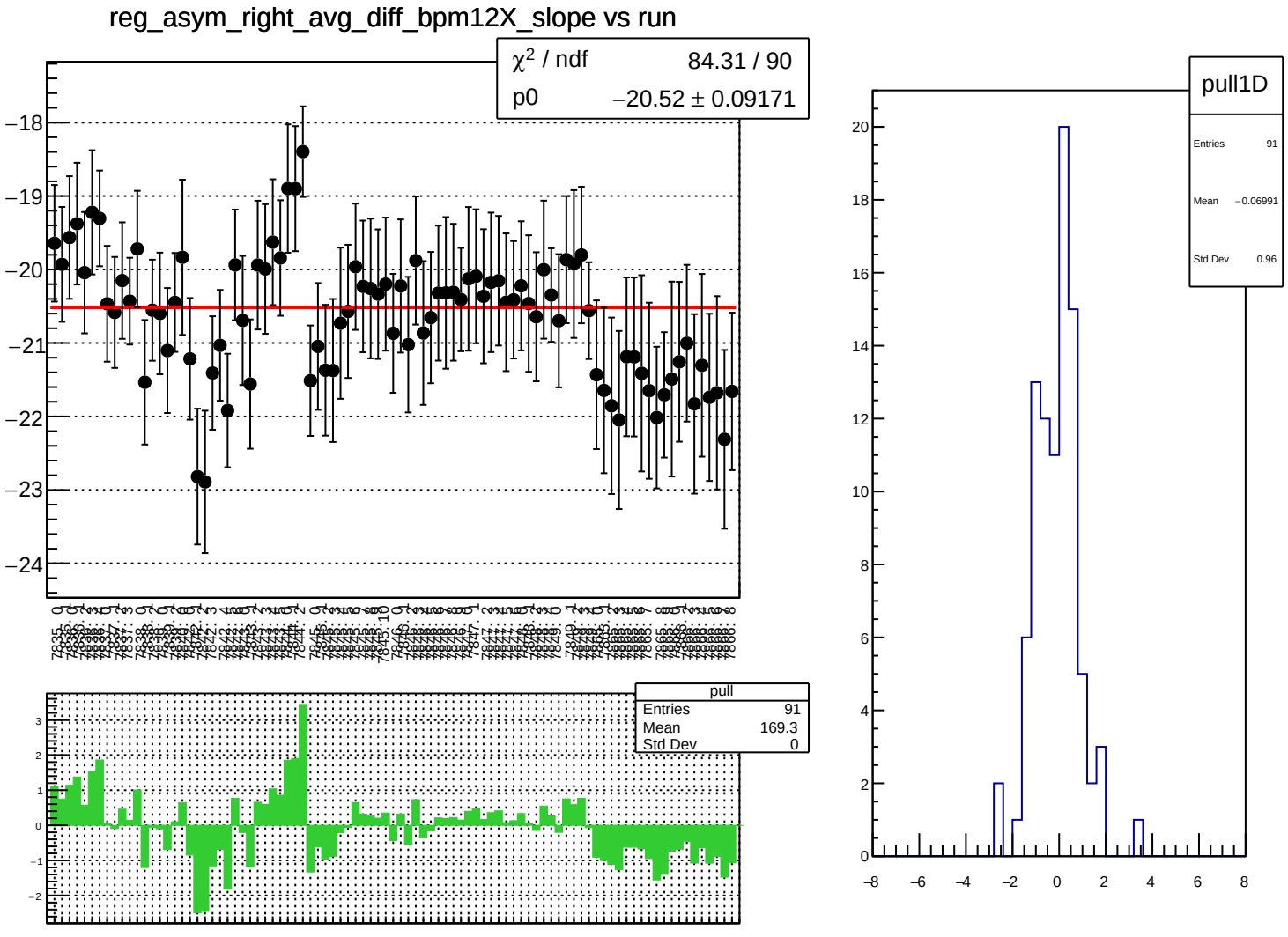

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.9 / 90
p0 9.359 ± 2.522
pull
Entries 91
Mean 24.74
Std Dev 0

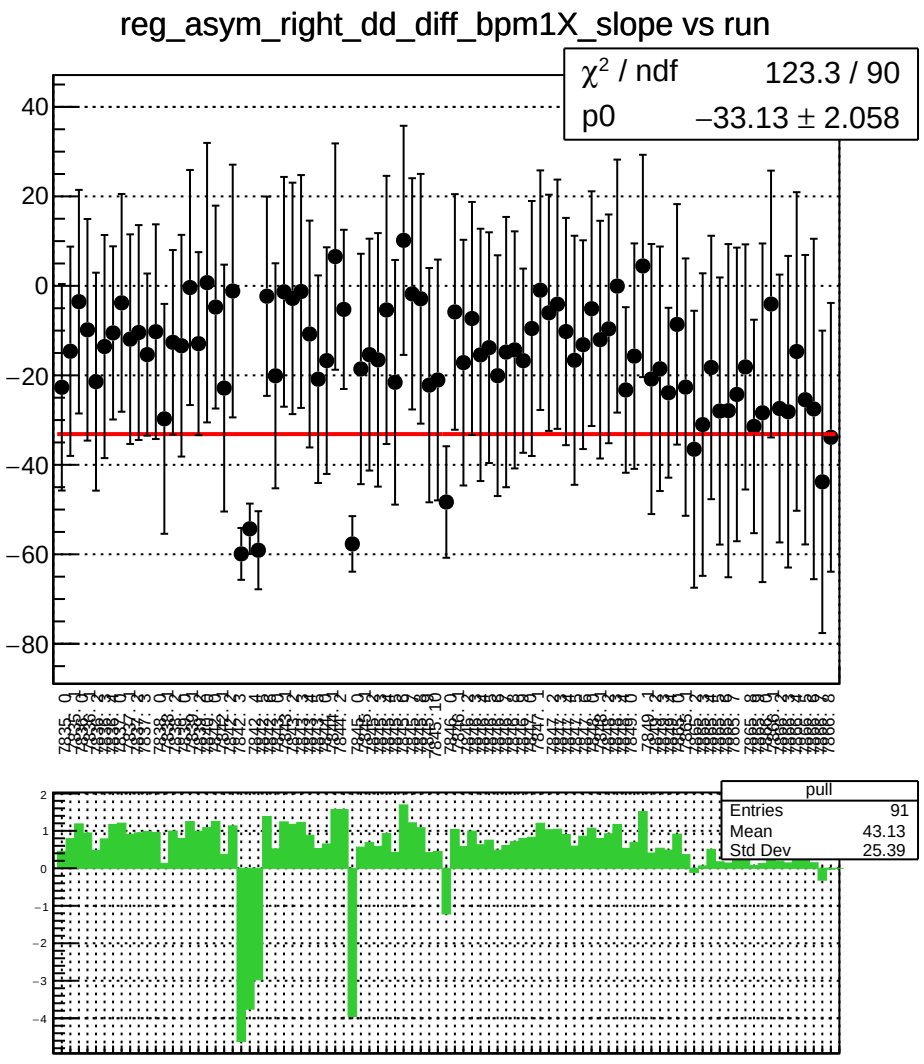

pull1D
Entries 91
Mean 0.02779
Std Dev 0.3449

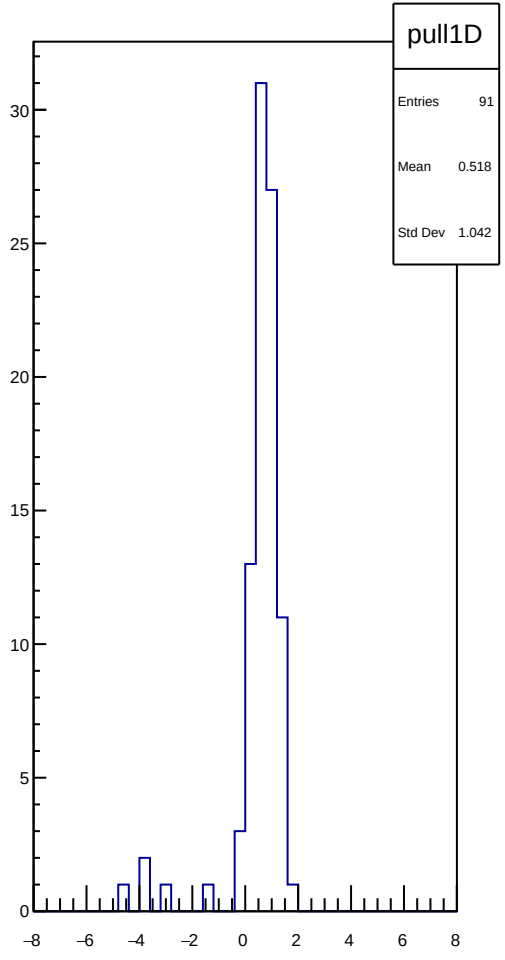

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 160 / 90
p0 66.34 ± 1.761
pull
Entries 91
Mean 43.9
Std Dev 26.31

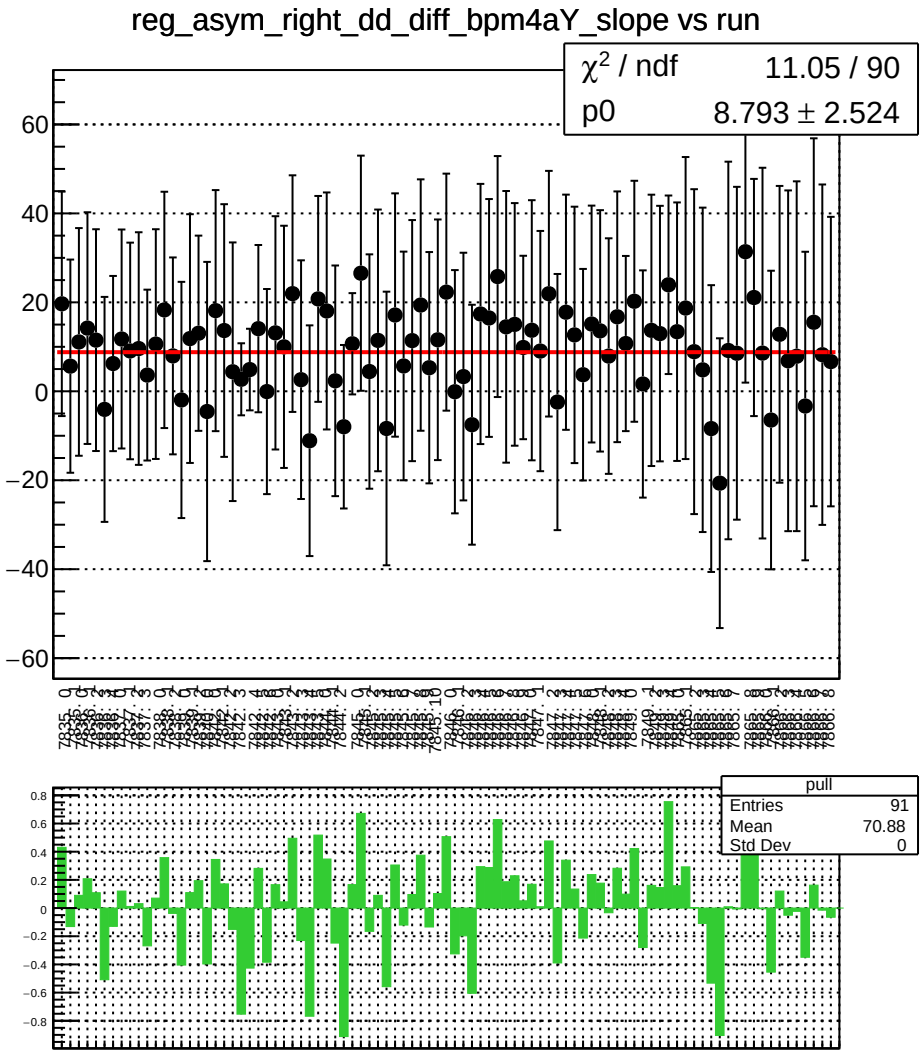

pull1D
Entries 91
Mean −0.6792
Std Dev 1.139

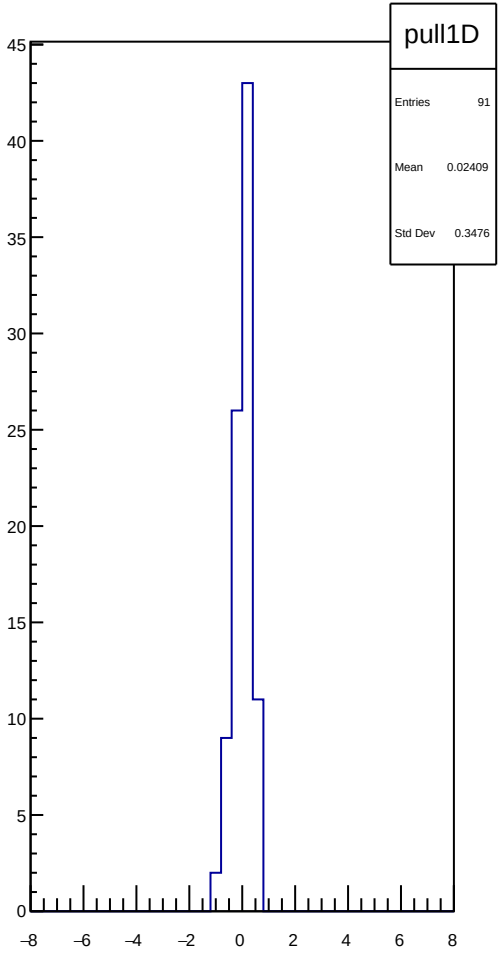

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.06 / 90
p0 −1.929 ± 2.972
pull
Entries 91
Mean −112.6
Std Dev 0
pull1D
Entries 91
Mean −0.007654
Std Dev 0.3485

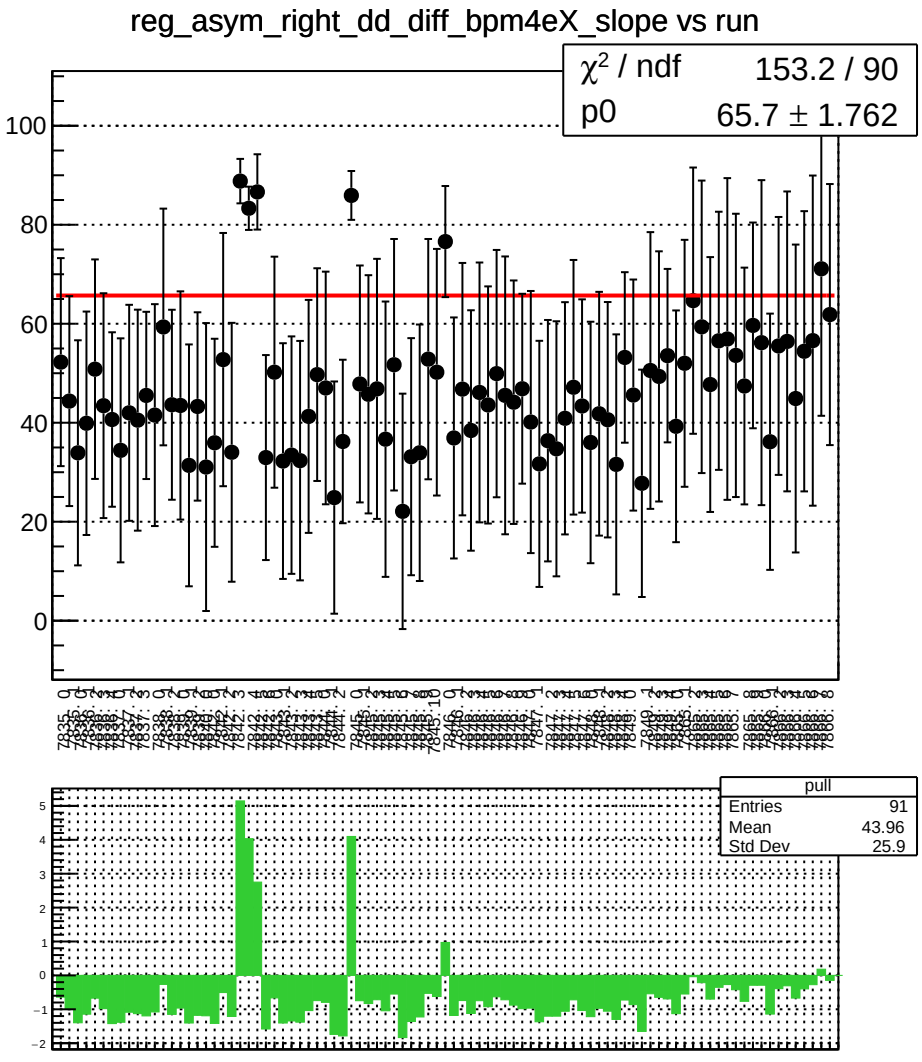

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 84.31 / 90
p0 −20.52 ± 0.09171
pull
Entries 91
Mean 169.3
Std Dev 0
pull1D
Entries 91
Mean −0.06991
Std Dev 0.96

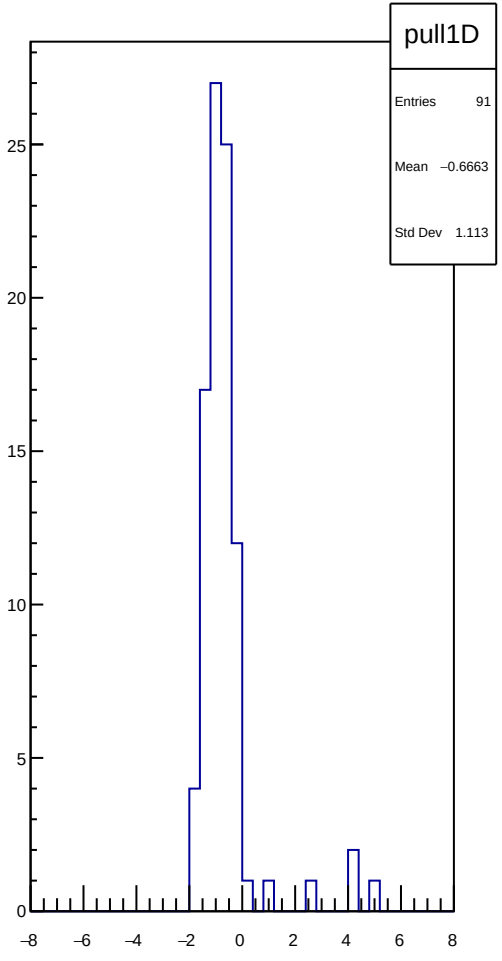

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 123.3 / 90
p0 −33.13 ± 2.058
pull
Entries 91
Mean 43.13
Std Dev 25.39

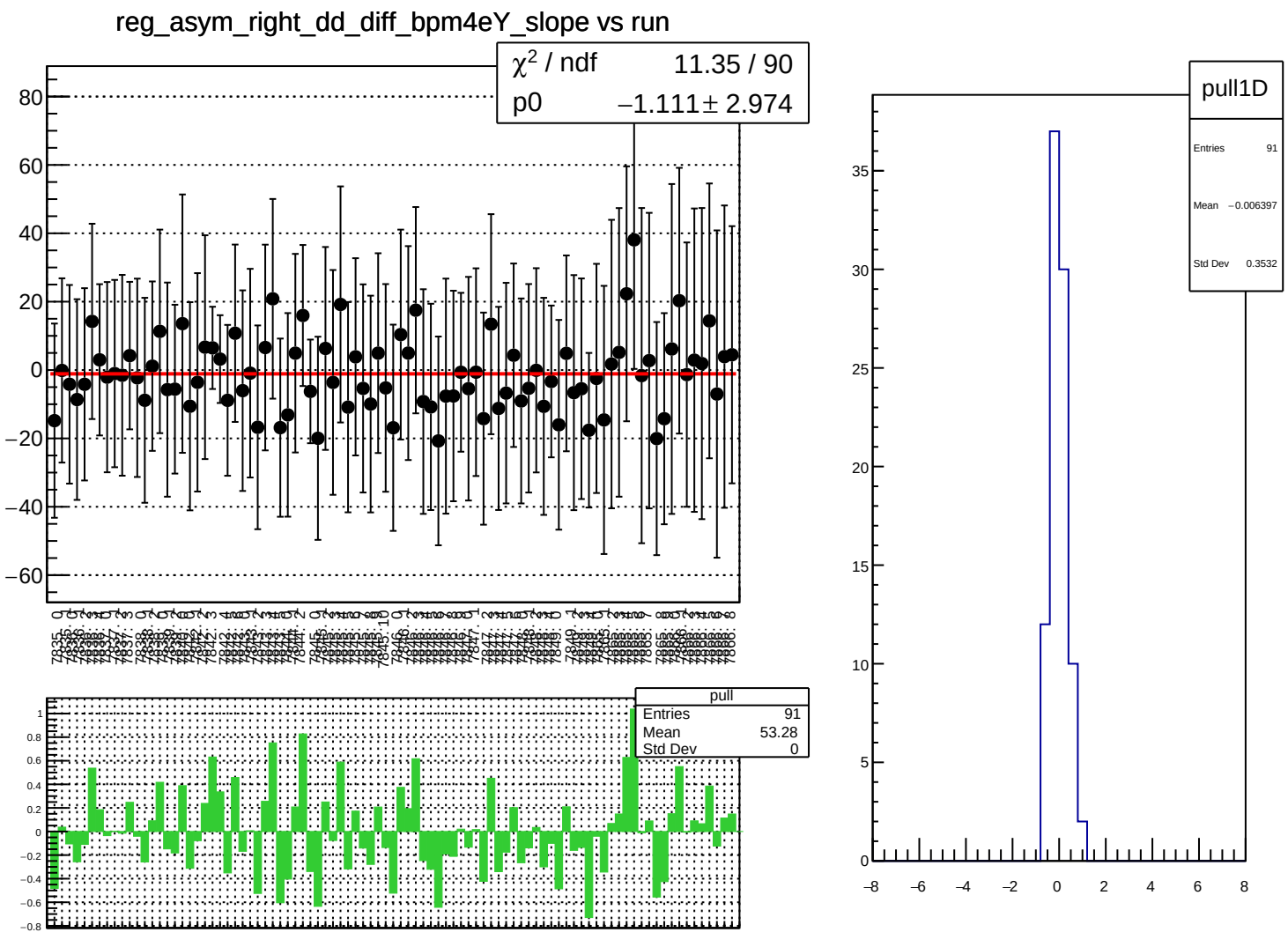

pull1D
Entries 91
Mean 0.518
Std Dev 1.042

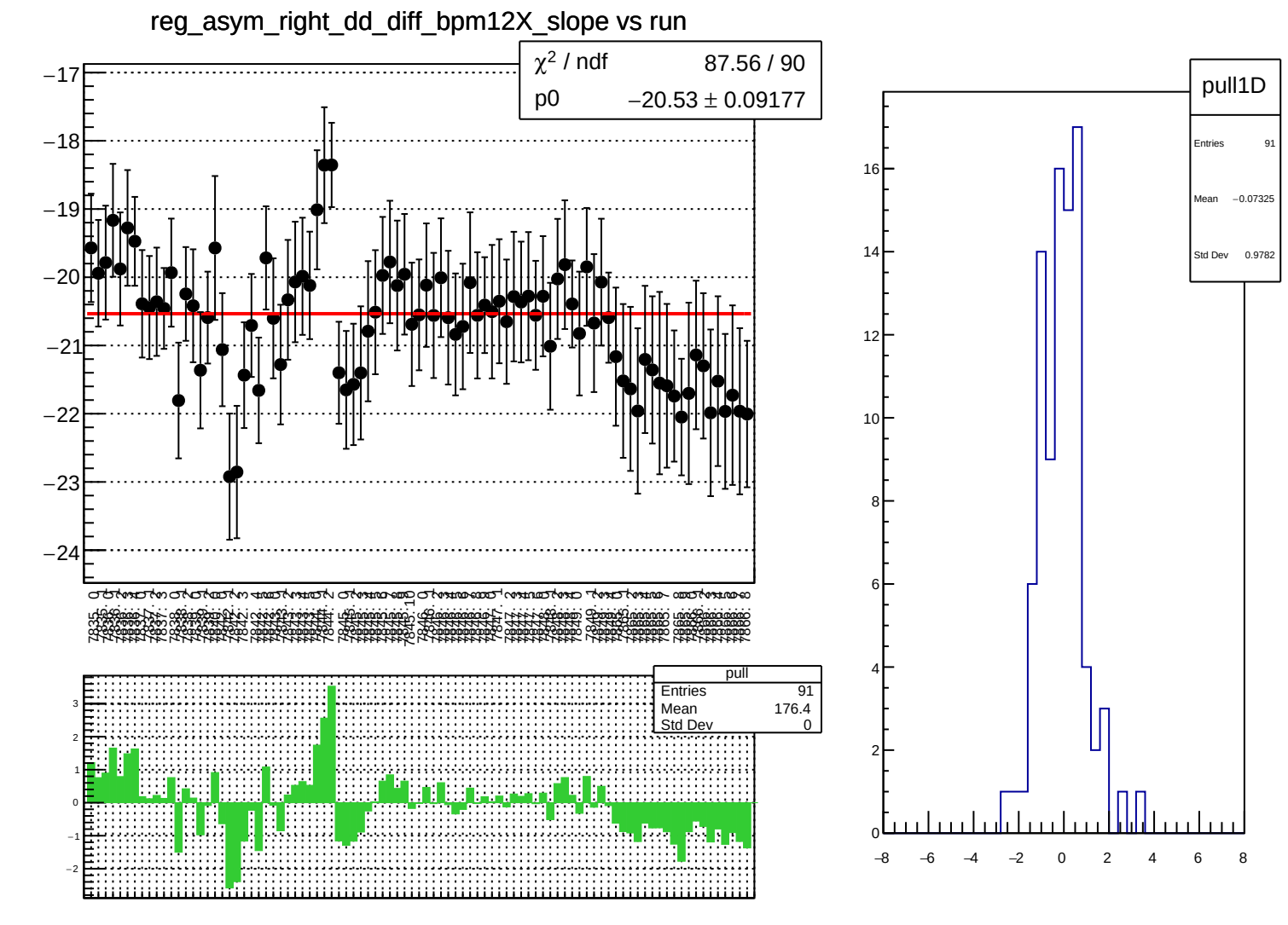

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.05 / 90
p0 8.793 ± 2.524
pull
Entries 91
Mean 70.88
Std Dev 0

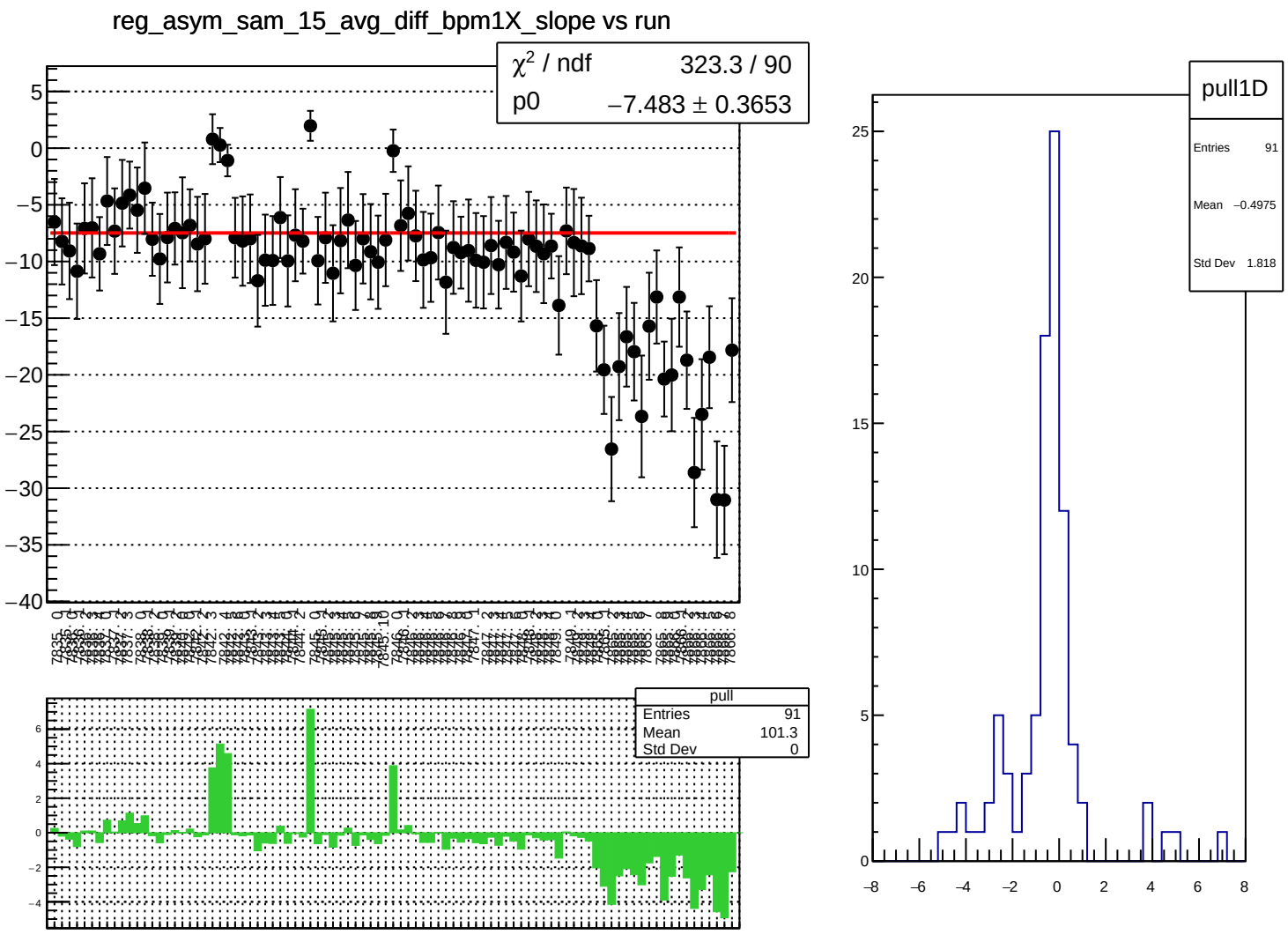

pull1D
Entries 91
Mean 0.02409
Std Dev 0.3476

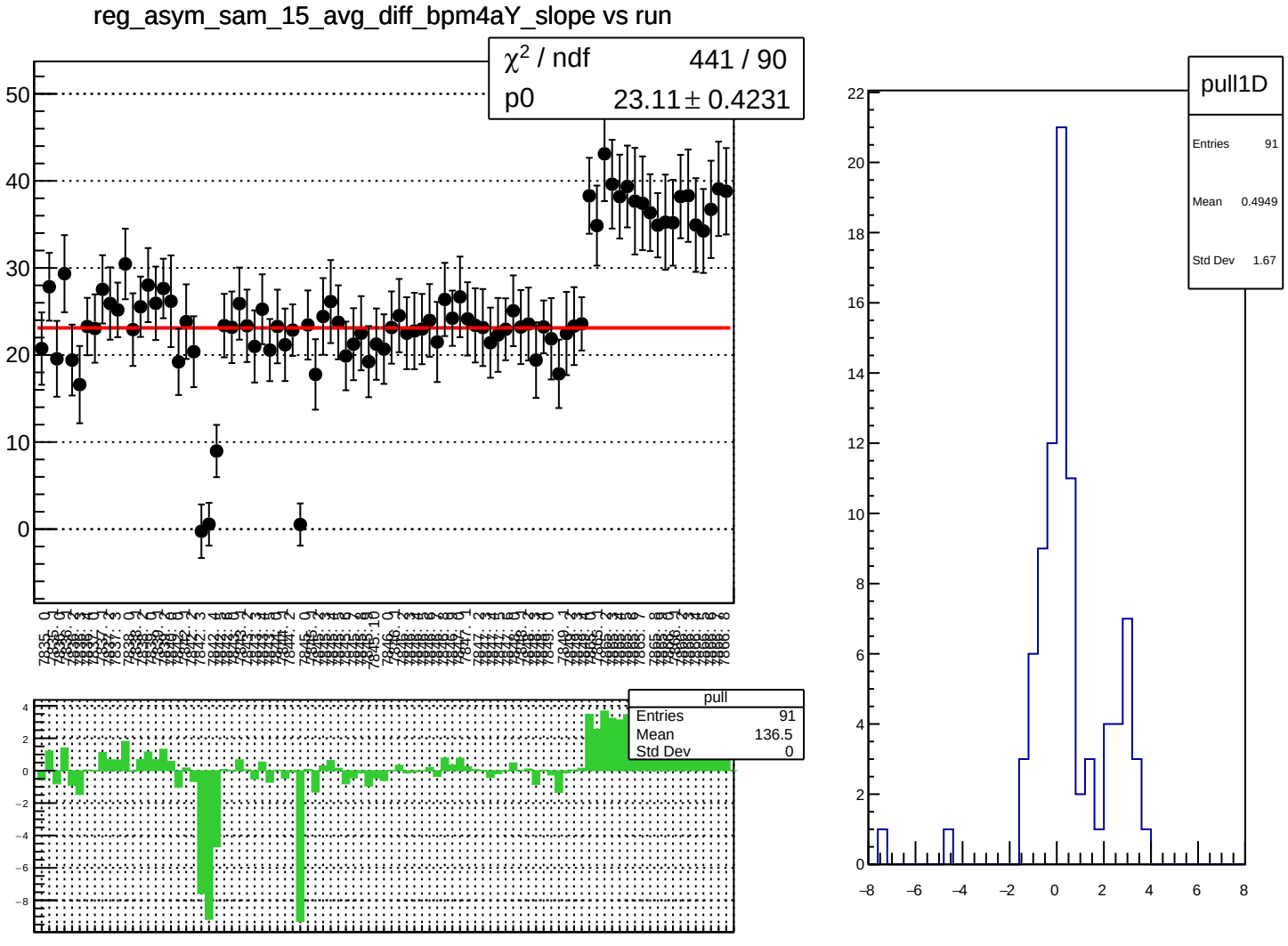

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 153.2 / 90
p0 65.7 ± 1.762
pull
Entries 91
Mean 43.96
Std Dev 25.9

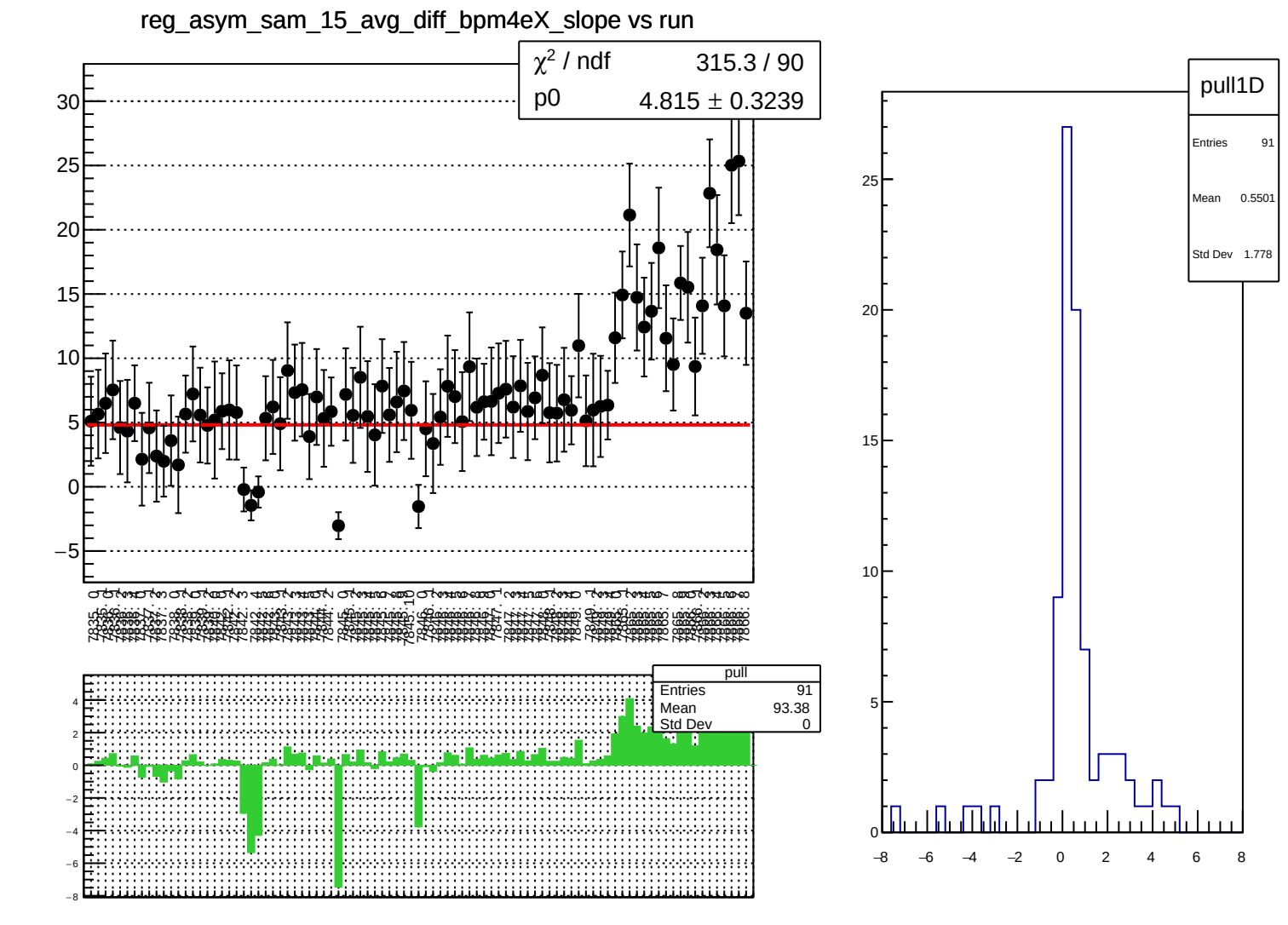

pull1D
Entries 91
Mean −0.6663
Std Dev 1.113

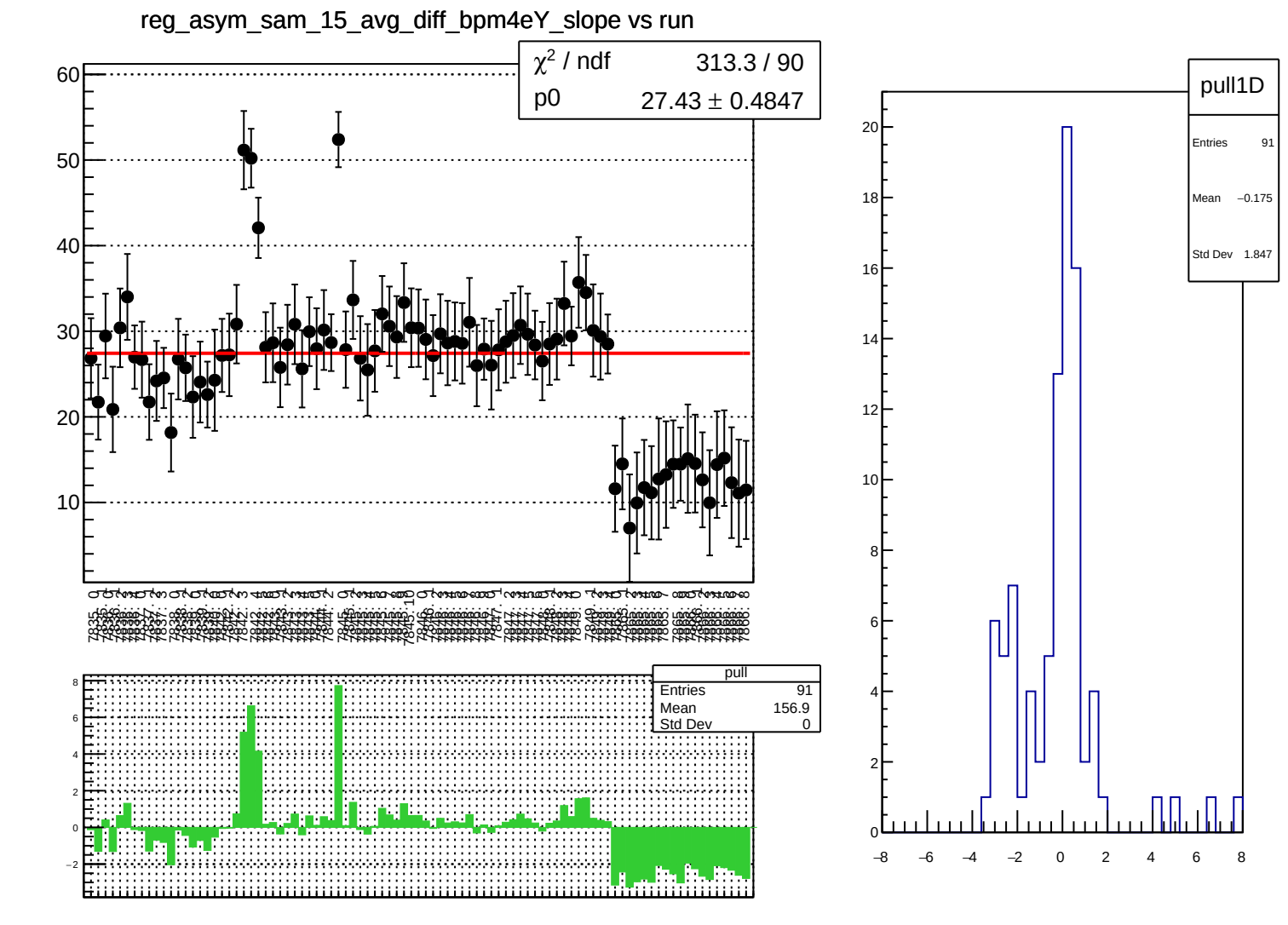

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.35 / 90
p0 −1.111 ± 2.974
pull
Entries 91
Mean 53.28
Std Dev 0
pull1D
Entries 91
Mean −0.006397
Std Dev 0.3532

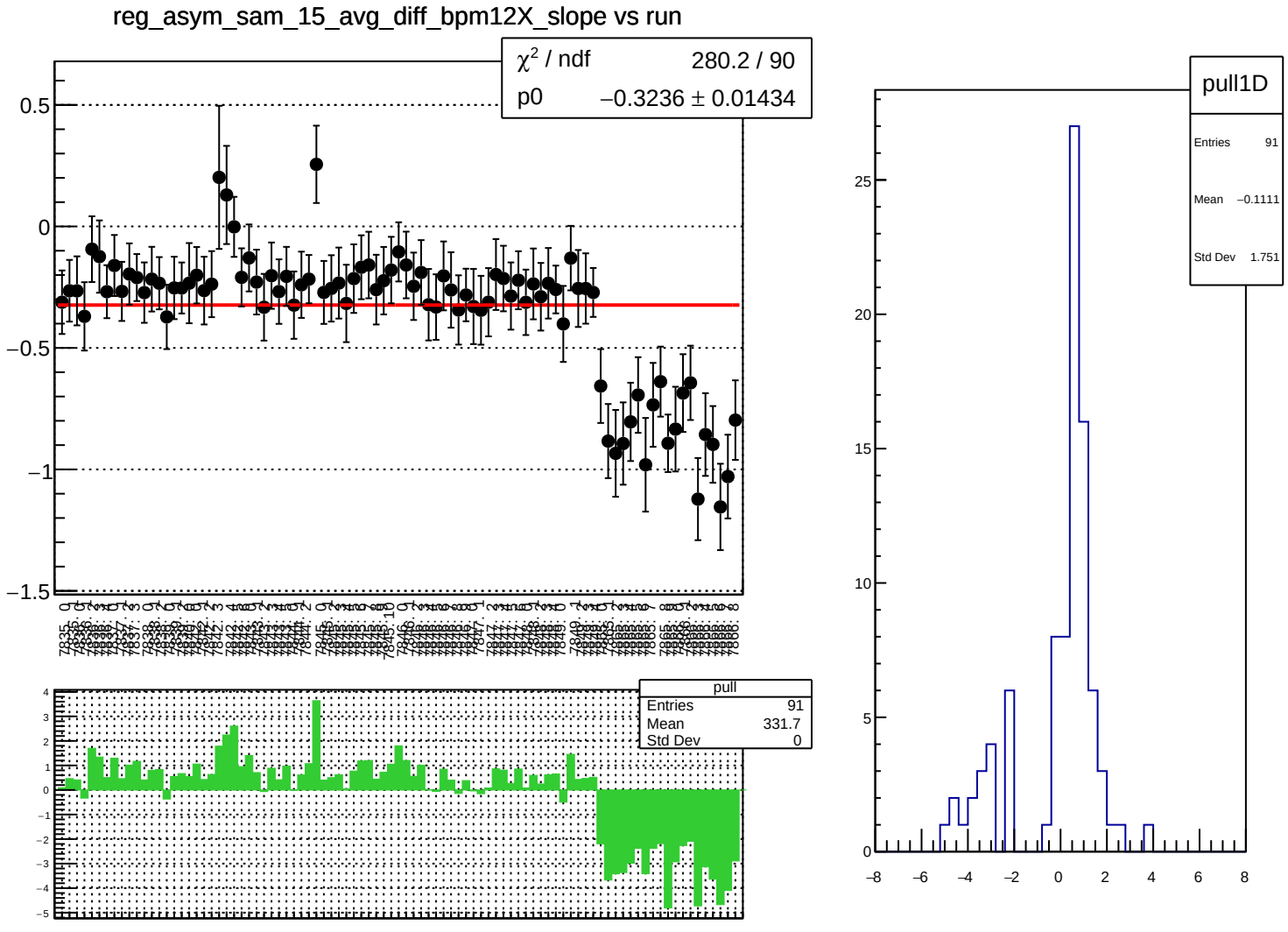

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 87.56 / 90
p0 −20.53 ± 0.09177
pull
Entries 91
Mean 176.4
Std Dev 0
pull1D
Entries 91
Mean −0.07325
Std Dev 0.9782

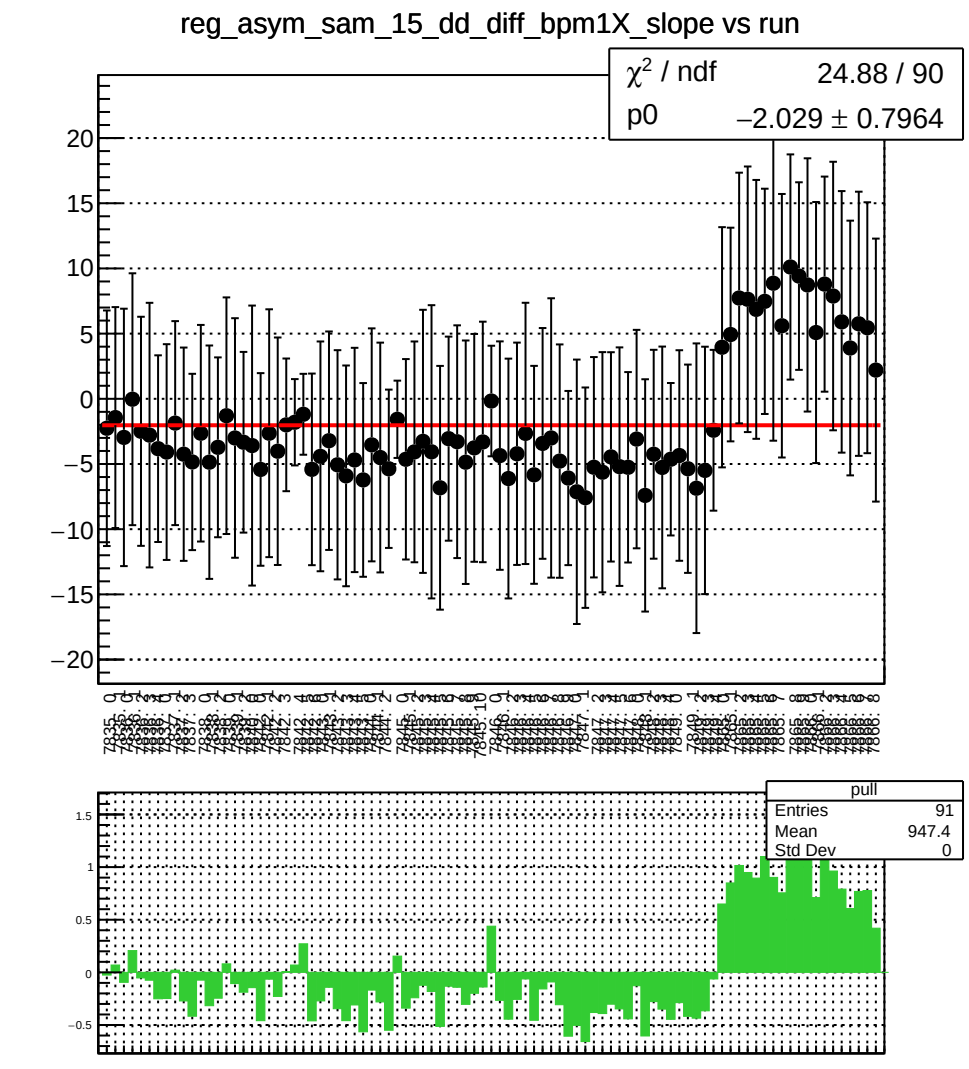

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 323.3 / 90
p0 −7.483 ± 0.3653
pull
Entries 91
Mean 101.3
Std Dev 0
pull1D
Entries 91
Mean −0.4975
Std Dev 1.818

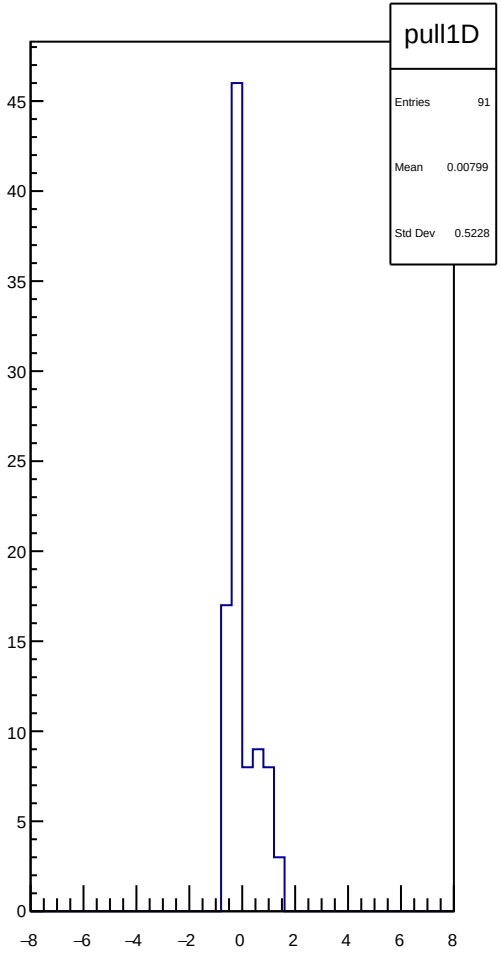

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 441 / 90
p0 23.11 ± 0.4231
pull
Entries 91
Mean 136.5
Std Dev 0
pull1D
Entries 91
Mean 0.4949
Std Dev 1.67

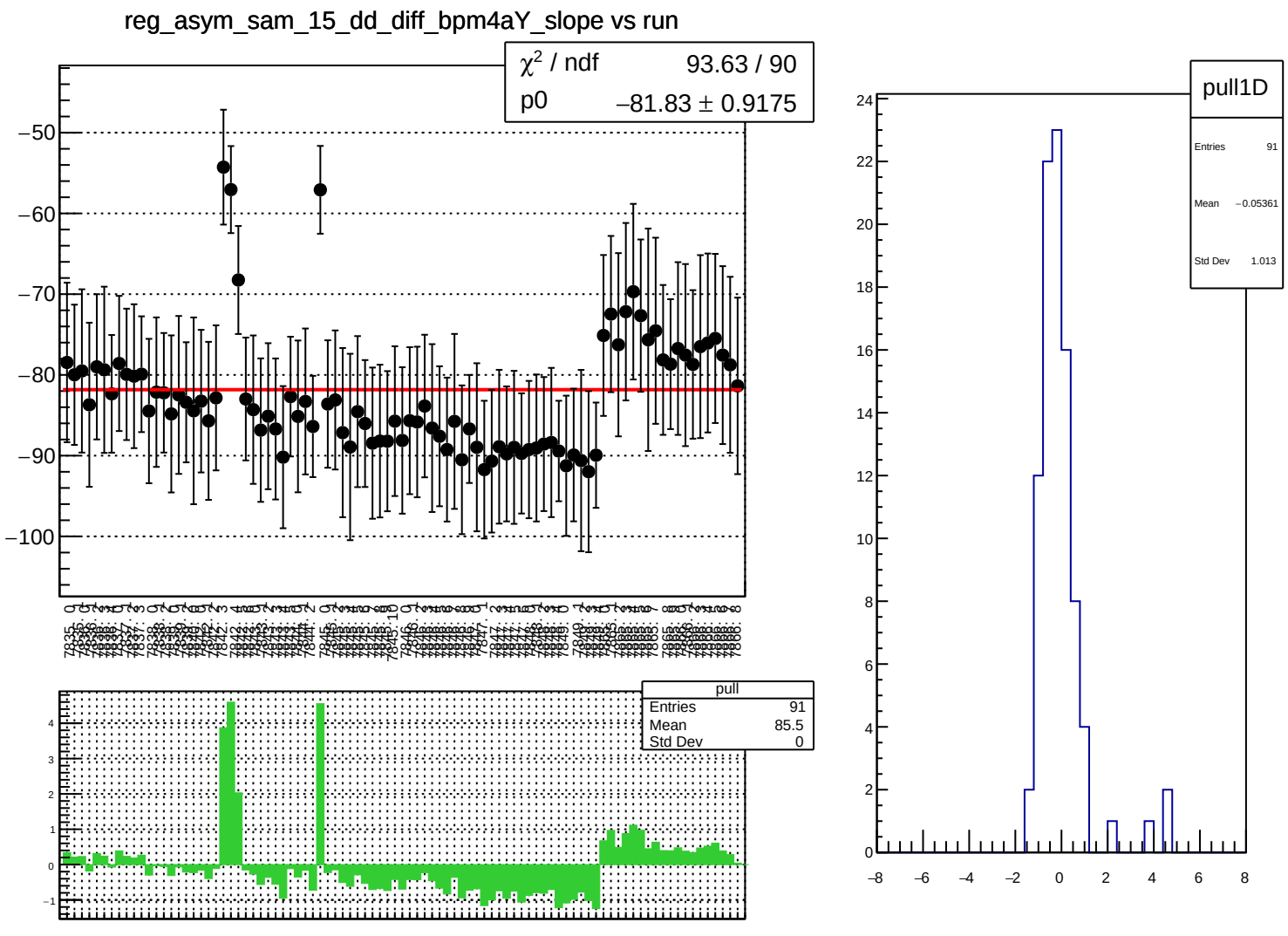

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 315.3 / 90
p0 4.815 ± 0.3239
pull
Entries 91
Mean 93.38
Std Dev 0
pull1D
Entries 91
Mean 0.5501
Std Dev 1.778

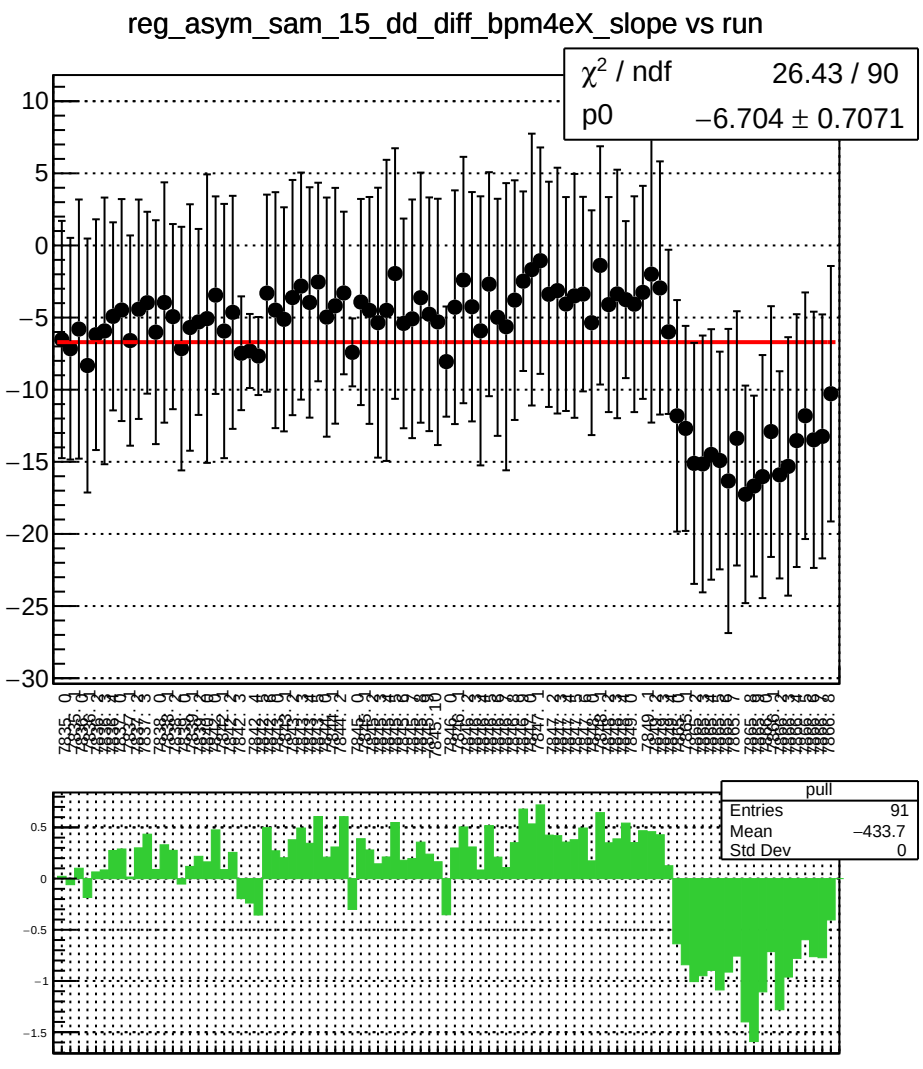

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 313.3 / 90
p0 27.43 ± 0.4847
pull
Entries 91
Mean 156.9
Std Dev 0
pull1D
Entries 91
Mean −0.175
Std Dev 1.847

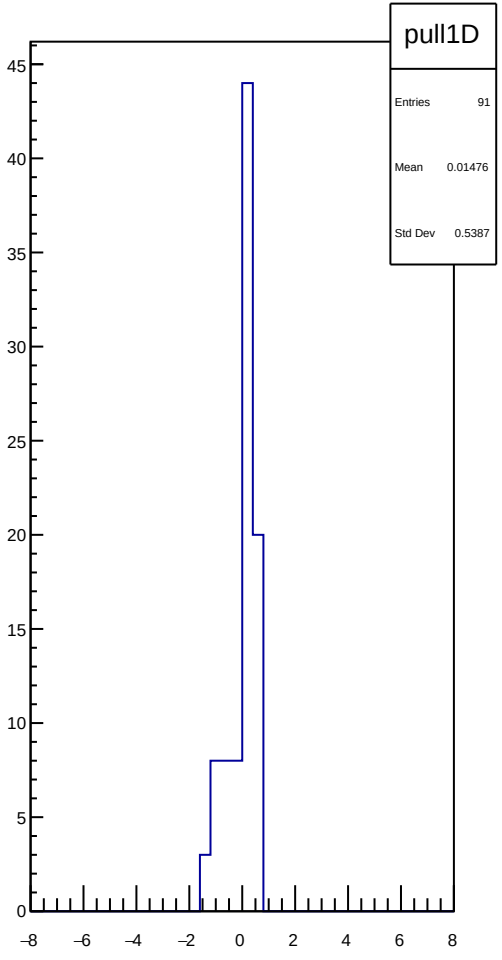

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 280.2 / 90
p0 −0.3236 ± 0.01434
pull
Entries 91
Mean 331.7
Std Dev 0
pull1D
Entries 91
Mean −0.1111
Std Dev 1.751

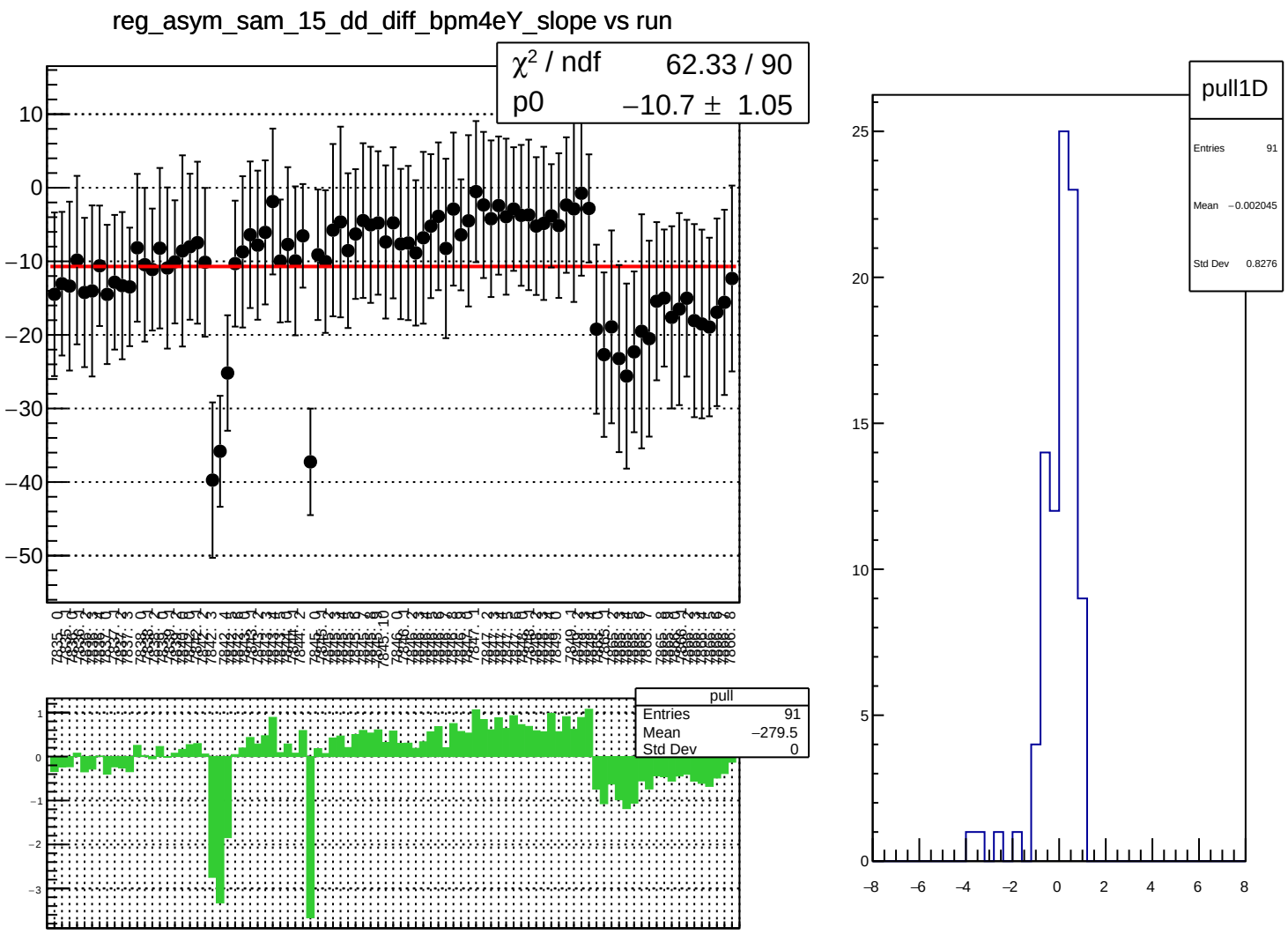

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 24.88 / 90
p0 −2.029 ± 0.7964
pull
Entries 91
Mean 947.4
Std Dev 0

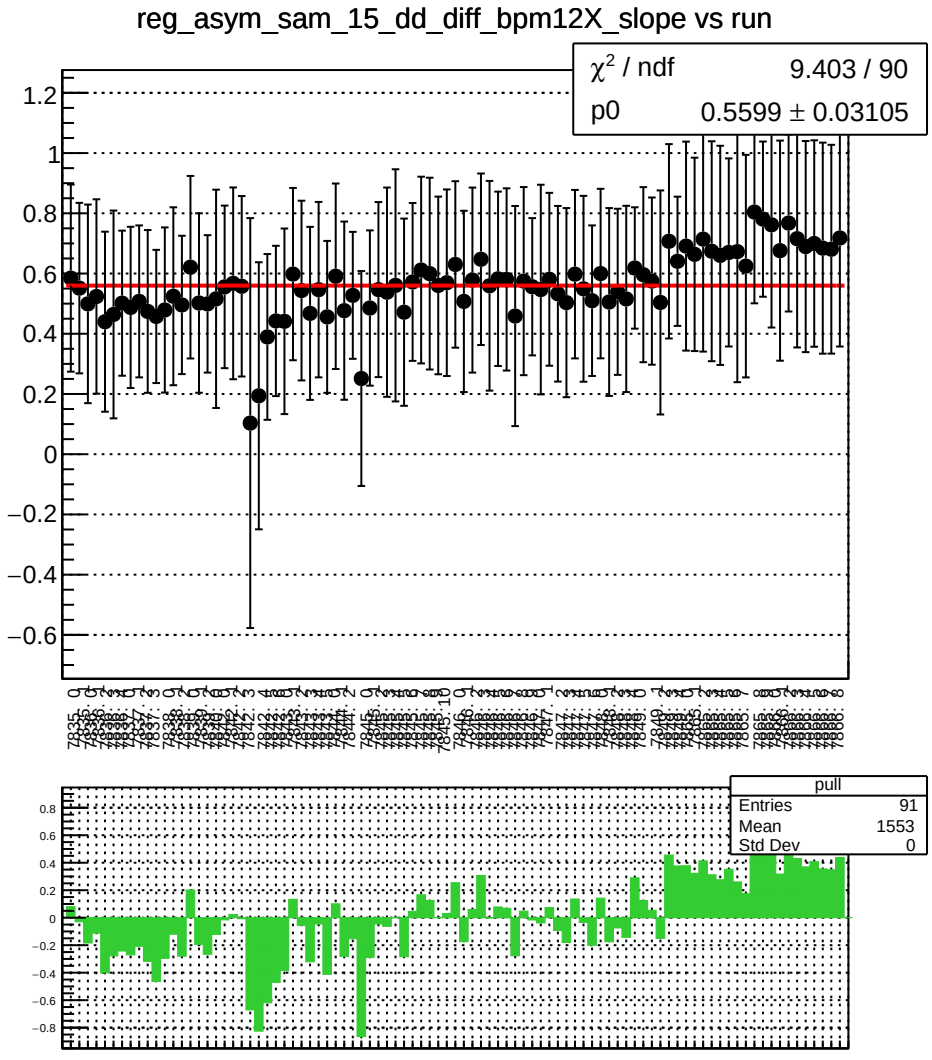

pull1D
Entries 91
Mean 0.00799
Std Dev 0.5228

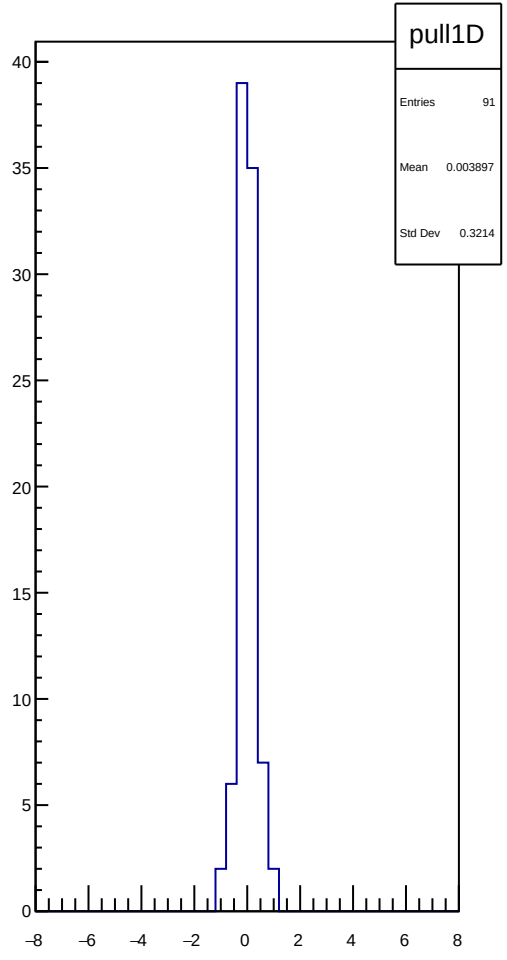

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.63 / 90
p0 −81.83 ± 0.9175
−50
−60
−70
−80
−90
−100
pull
Entries 91
Mean 85.5
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 91
Mean −0.05361
Std Dev 1.013
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

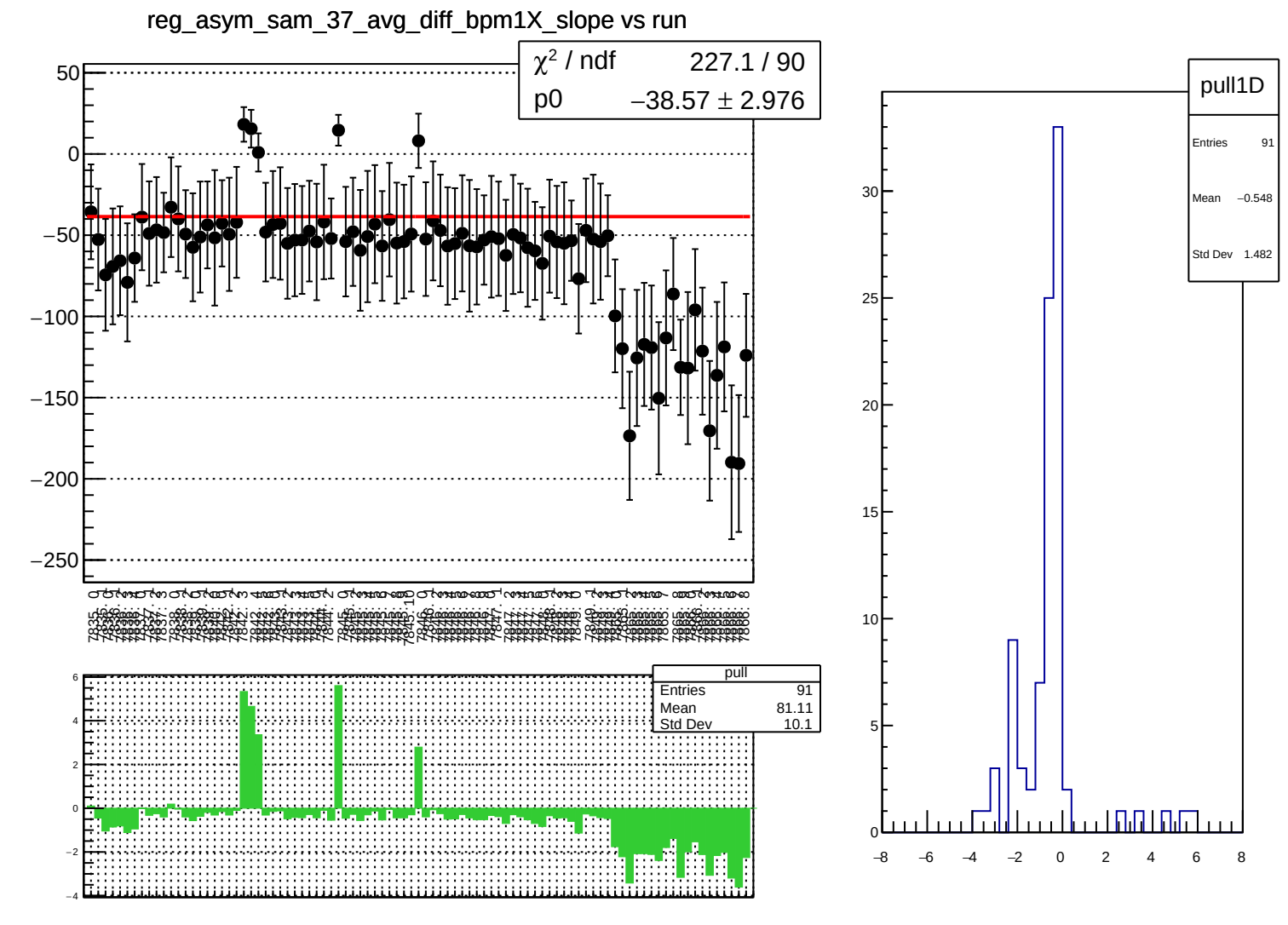

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.43 / 90
p0 −6.704 ± 0.7071
pull
Entries 91
Mean −433.7
Std Dev 0

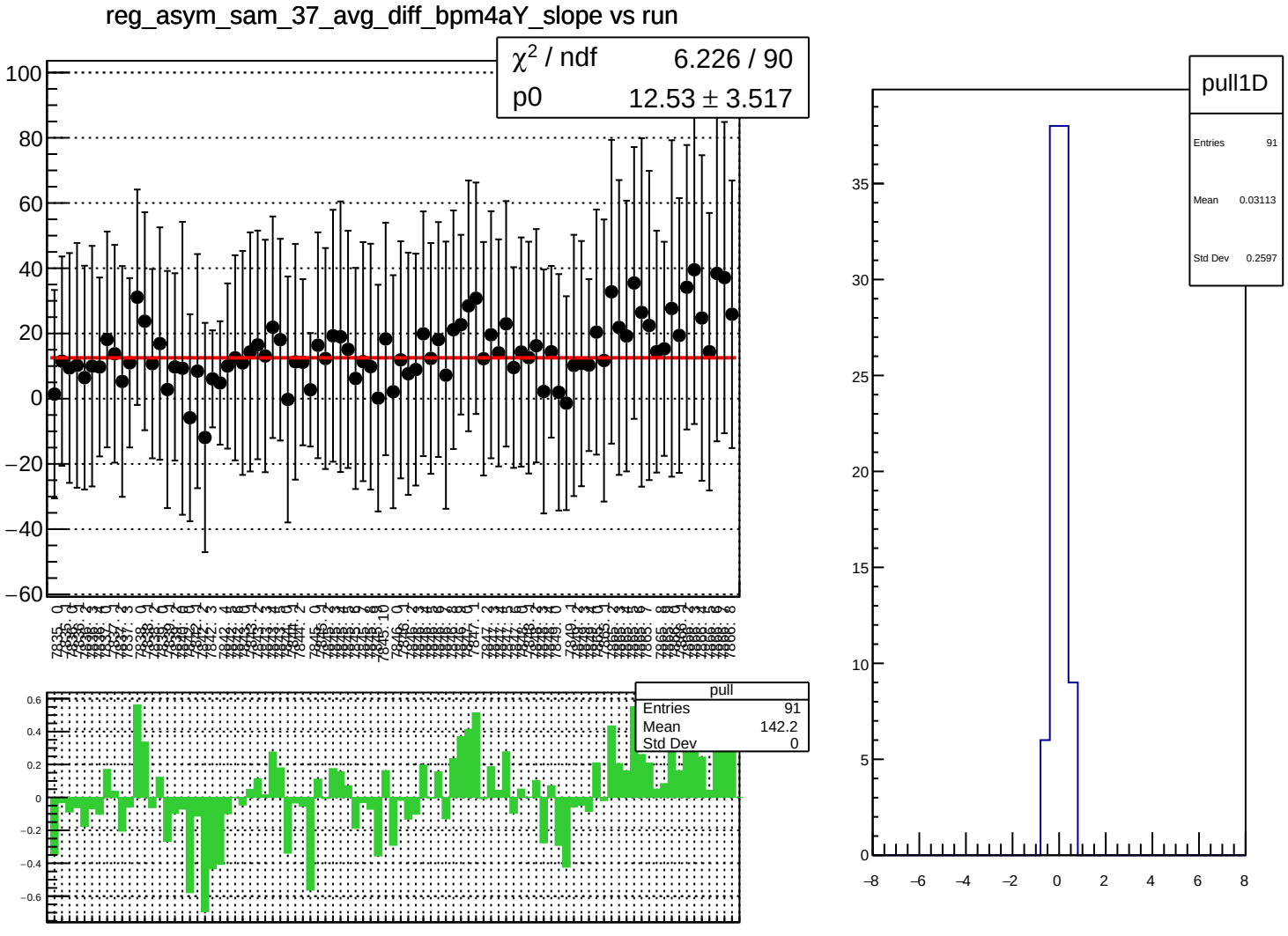

pull1D
Entries 91
Mean 0.01476
Std Dev 0.5387

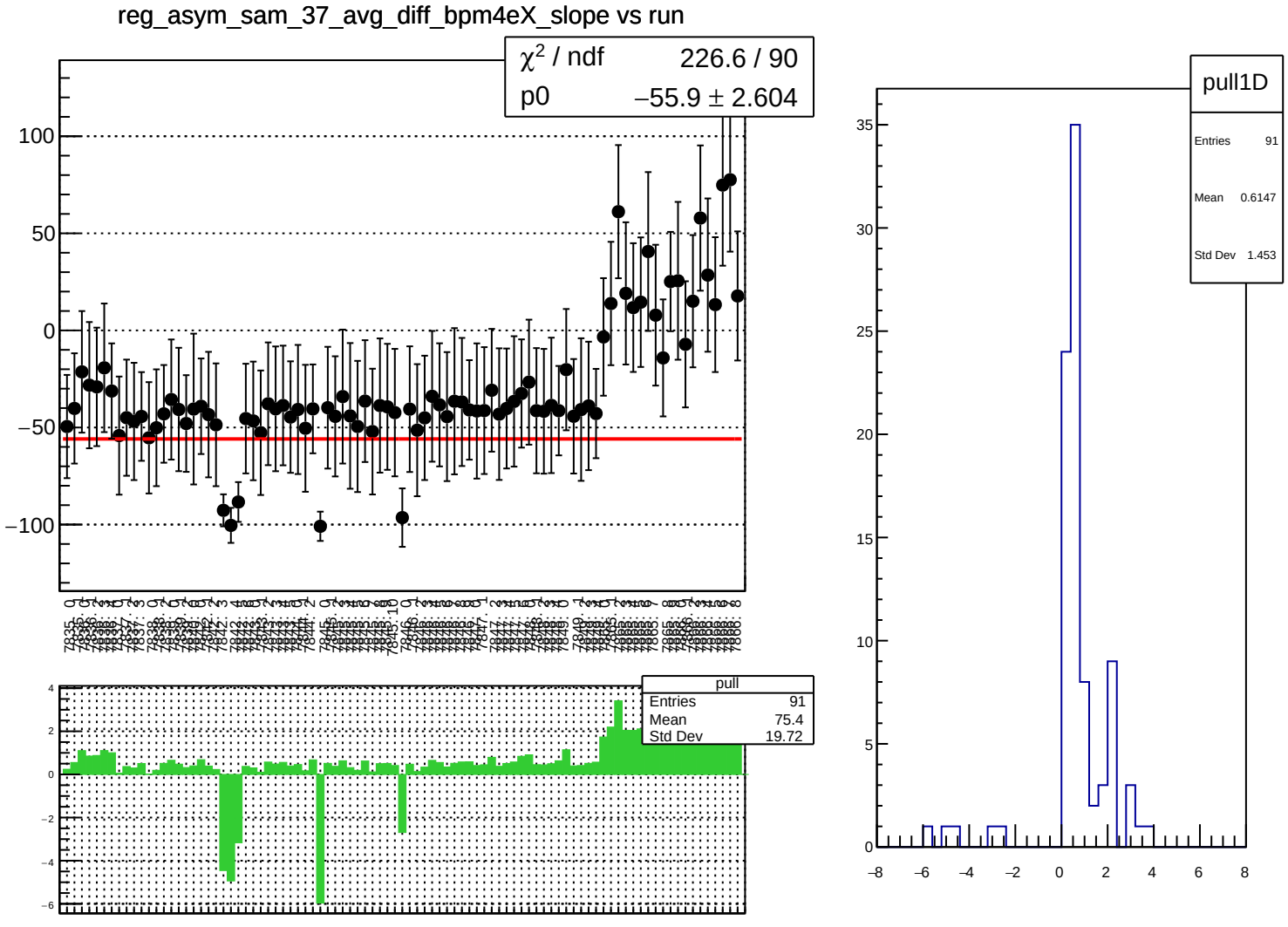

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.33 / 90
p0 −10.7 ± 1.05
pull
Entries 91
Mean −279.5
Std Dev 0
pull1D
Entries 91
Mean −0.002045
Std Dev 0.8276

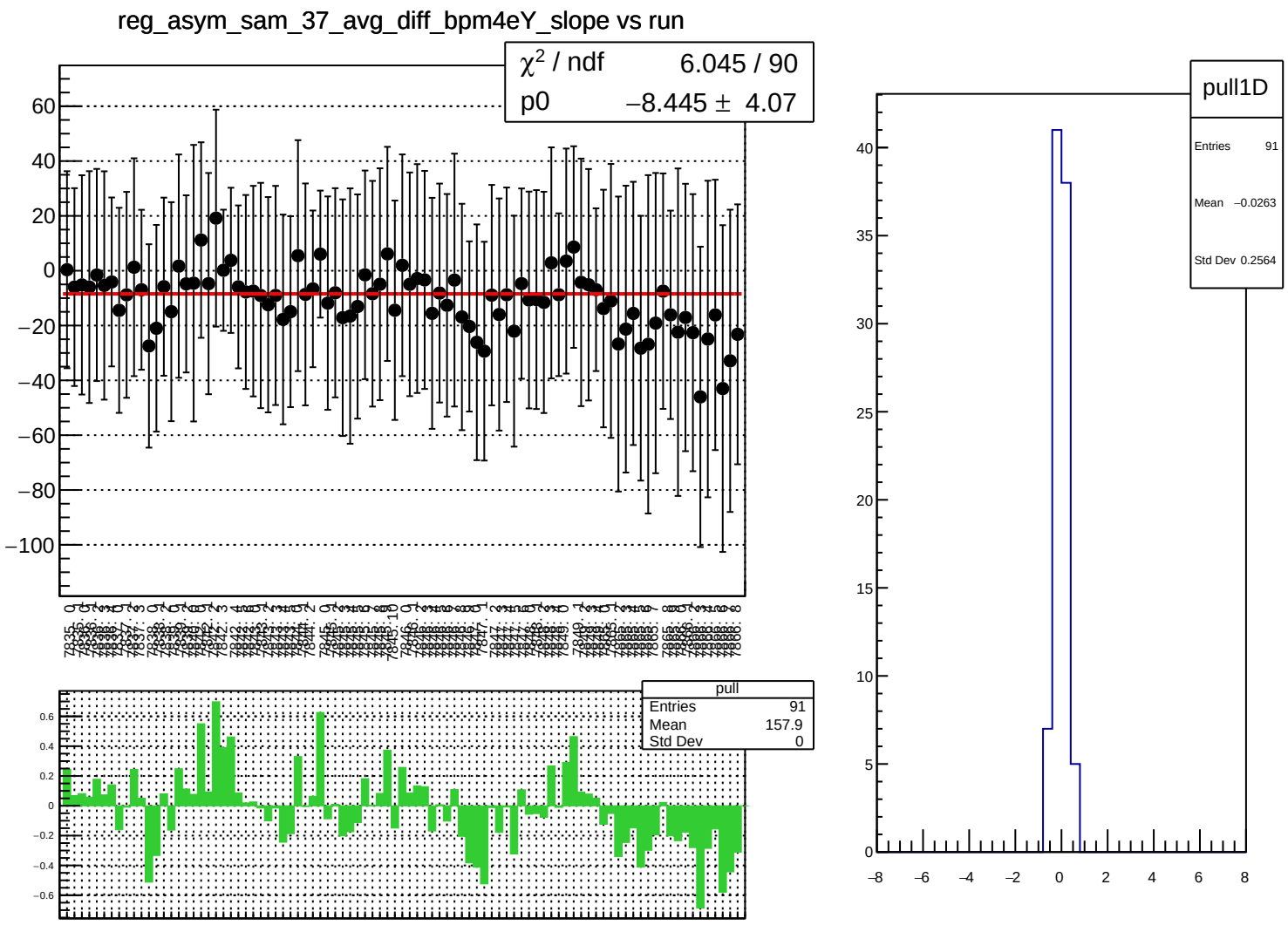

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 9.403 / 90
p0 0.5599 ± 0.03105
pull
Entries 91
Mean 1553
Std Dev 0

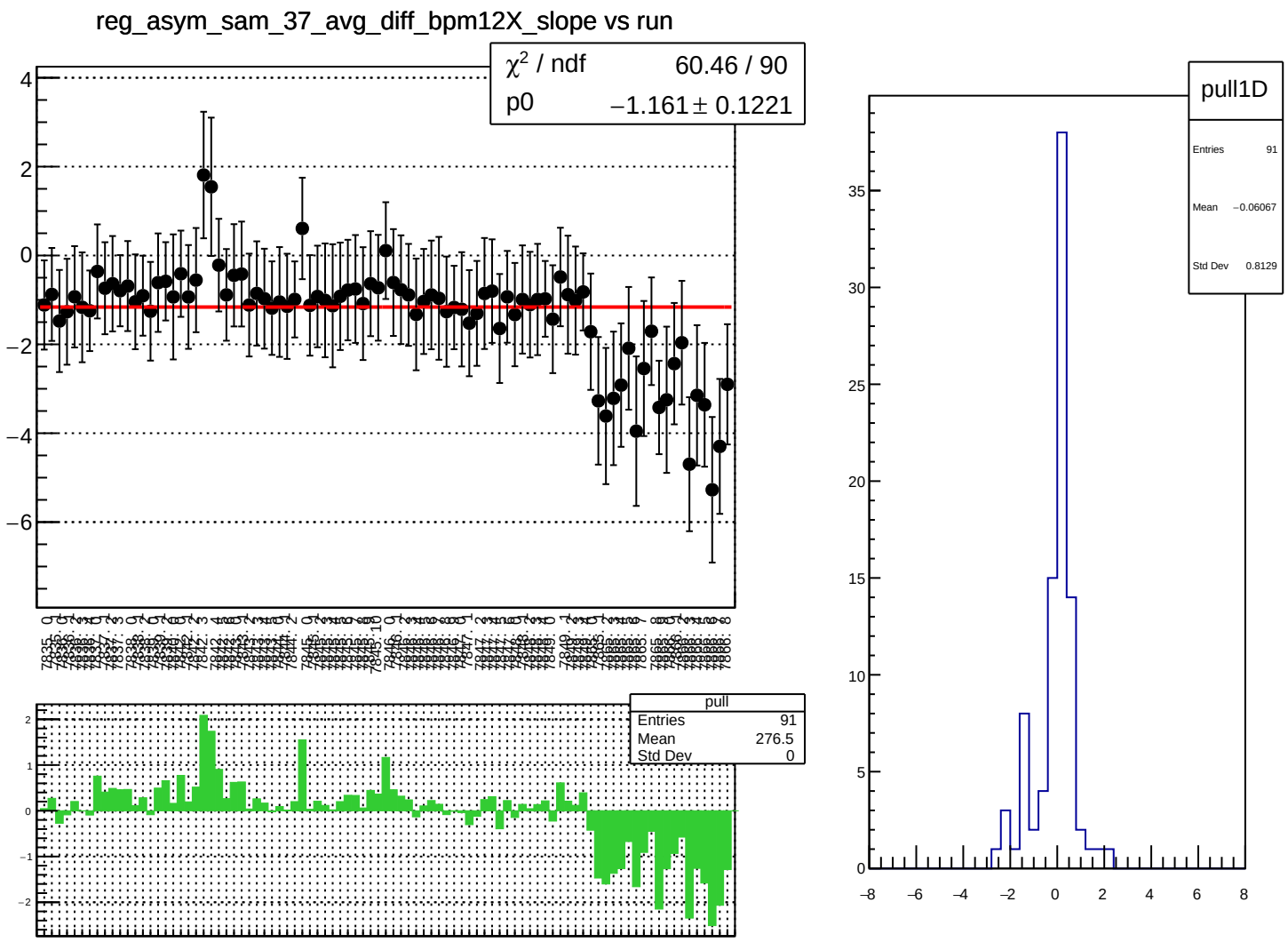

pull1D
Entries 91
Mean 0.003897
Std Dev 0.3214

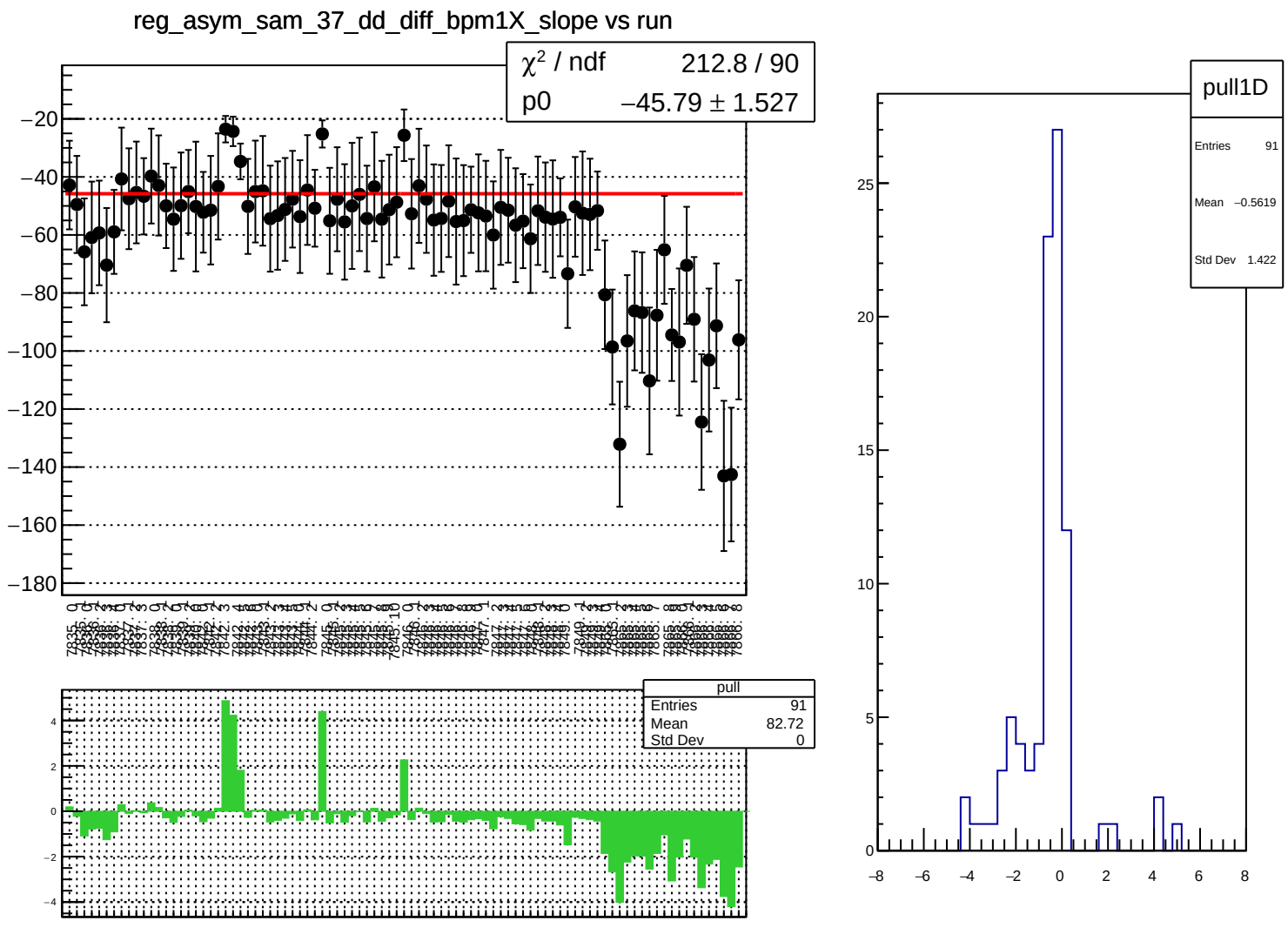

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 227.1 / 90
p0 −38.57 ± 2.976
pull
Entries 91
Mean 81.11
Std Dev 10.1
pull1D
Entries 91
Mean −0.548
Std Dev 1.482

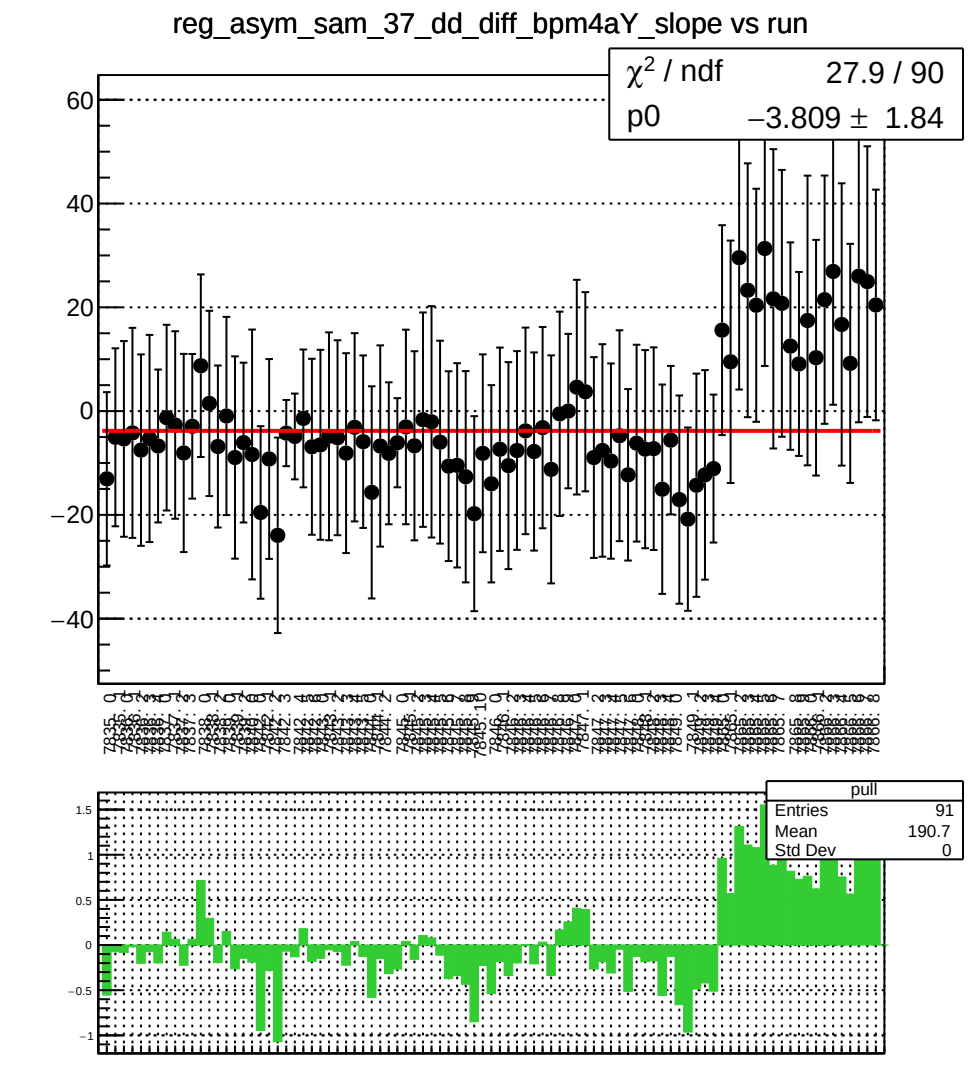

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.226 / 90
p0 12.53 ± 3.517
pull
Entries 91
Mean 142.2
Std Dev 0
pull1D
Entries 91
Mean 0.03113
Std Dev 0.2597

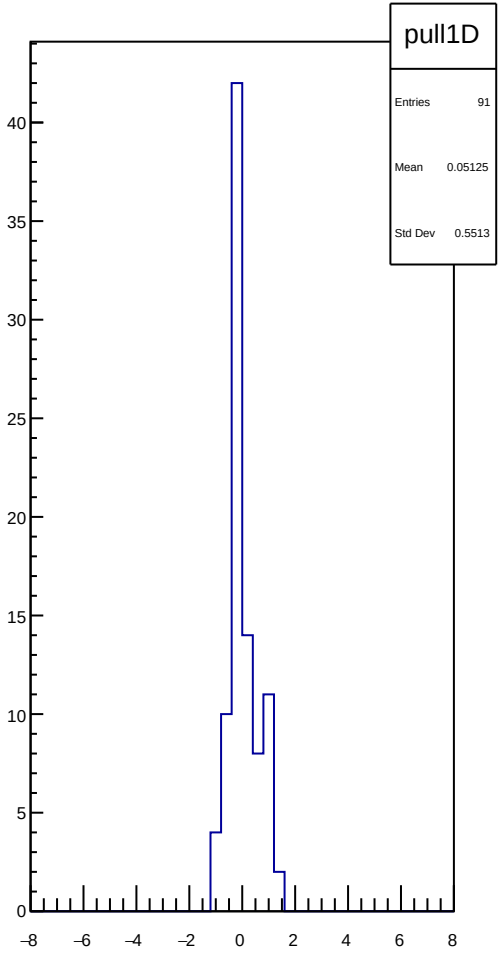

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 226.6 / 90
p0 −55.9 ± 2.604
pull
Entries 91
Mean 75.4
Std Dev 19.72
pull1D
Entries 91
Mean 0.6147
Std Dev 1.453

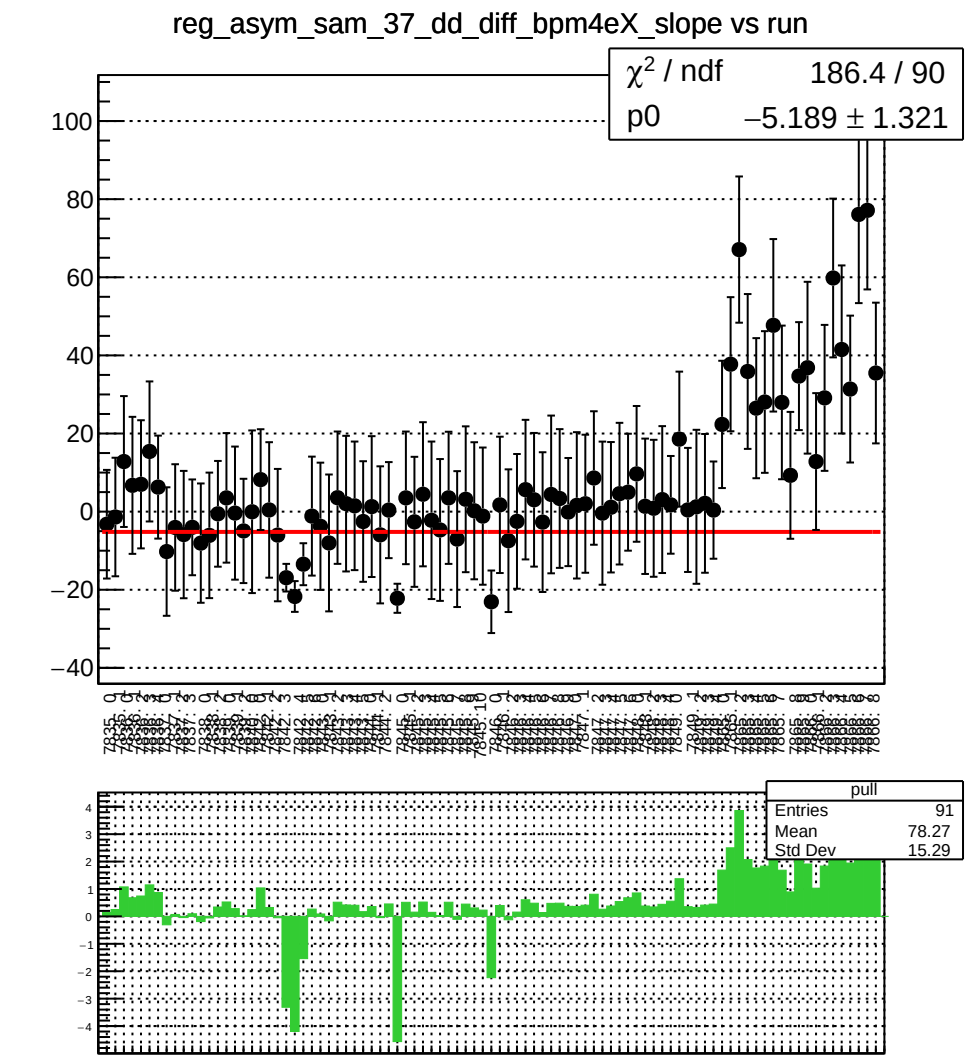

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.045 / 90
p0 −8.445 ± 4.07
pull
Entries 91
Mean 157.9
Std Dev 0
pull1D
Entries 91
Mean −0.0263
Std Dev 0.2564

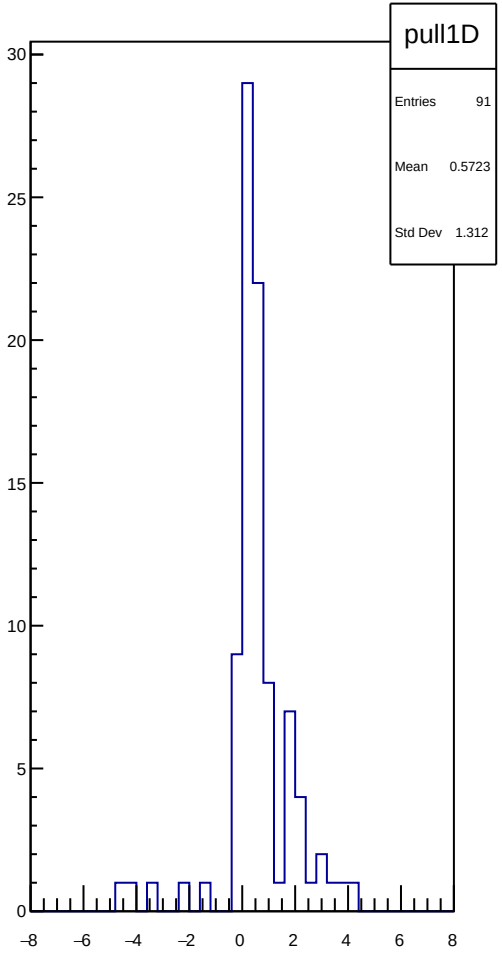

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 60.46 / 90
p0 −1.161 ± 0.1221
pull
Entries 91
Mean 276.5
Std Dev 0
pull1D
Entries 91
Mean −0.06067
Std Dev 0.8129

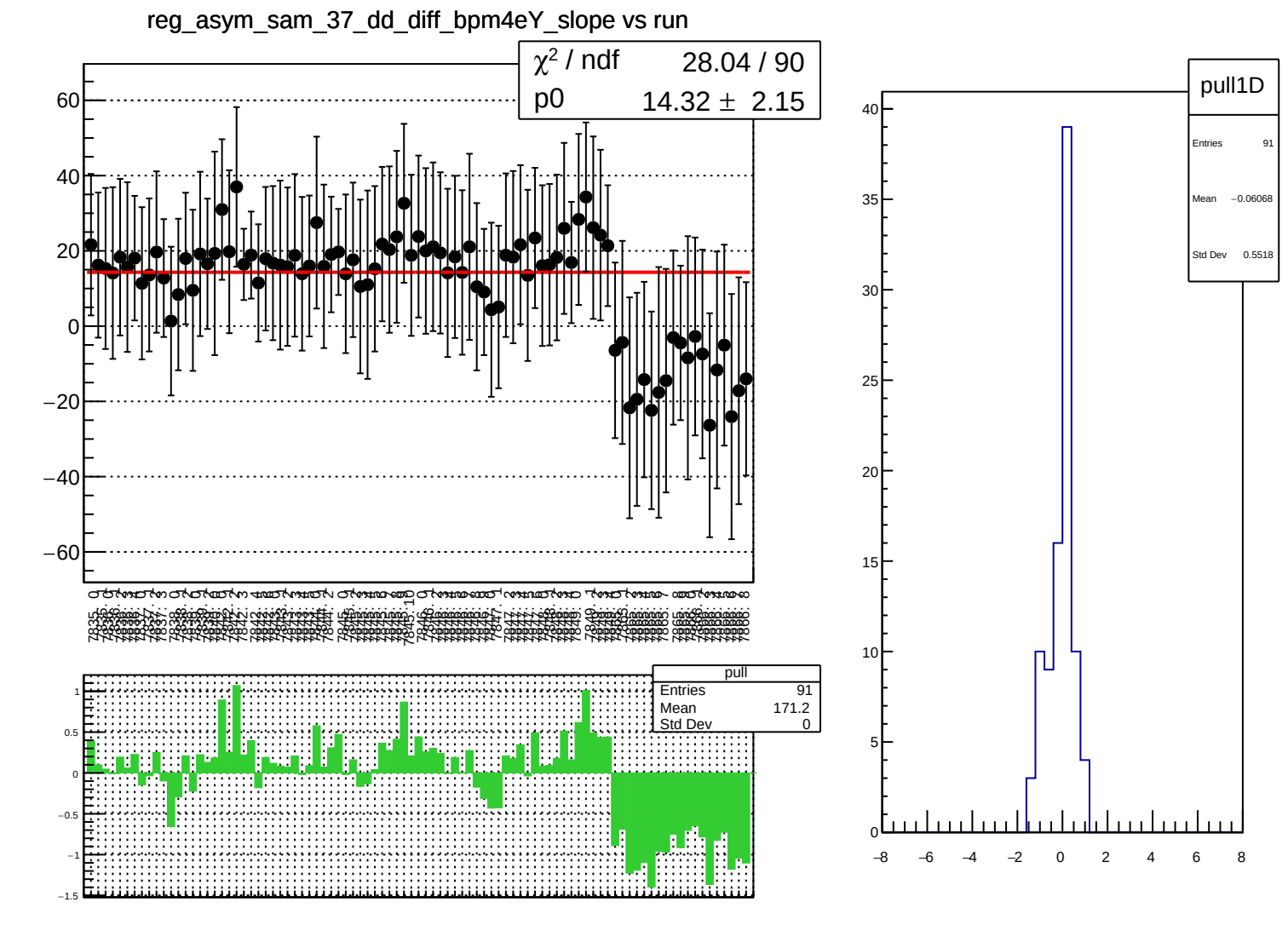

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 212.8 / 90
p0 −45.79 ± 1.527
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull
Entries 91
Mean 82.72
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 91
Mean −0.5619
Std Dev 1.422
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

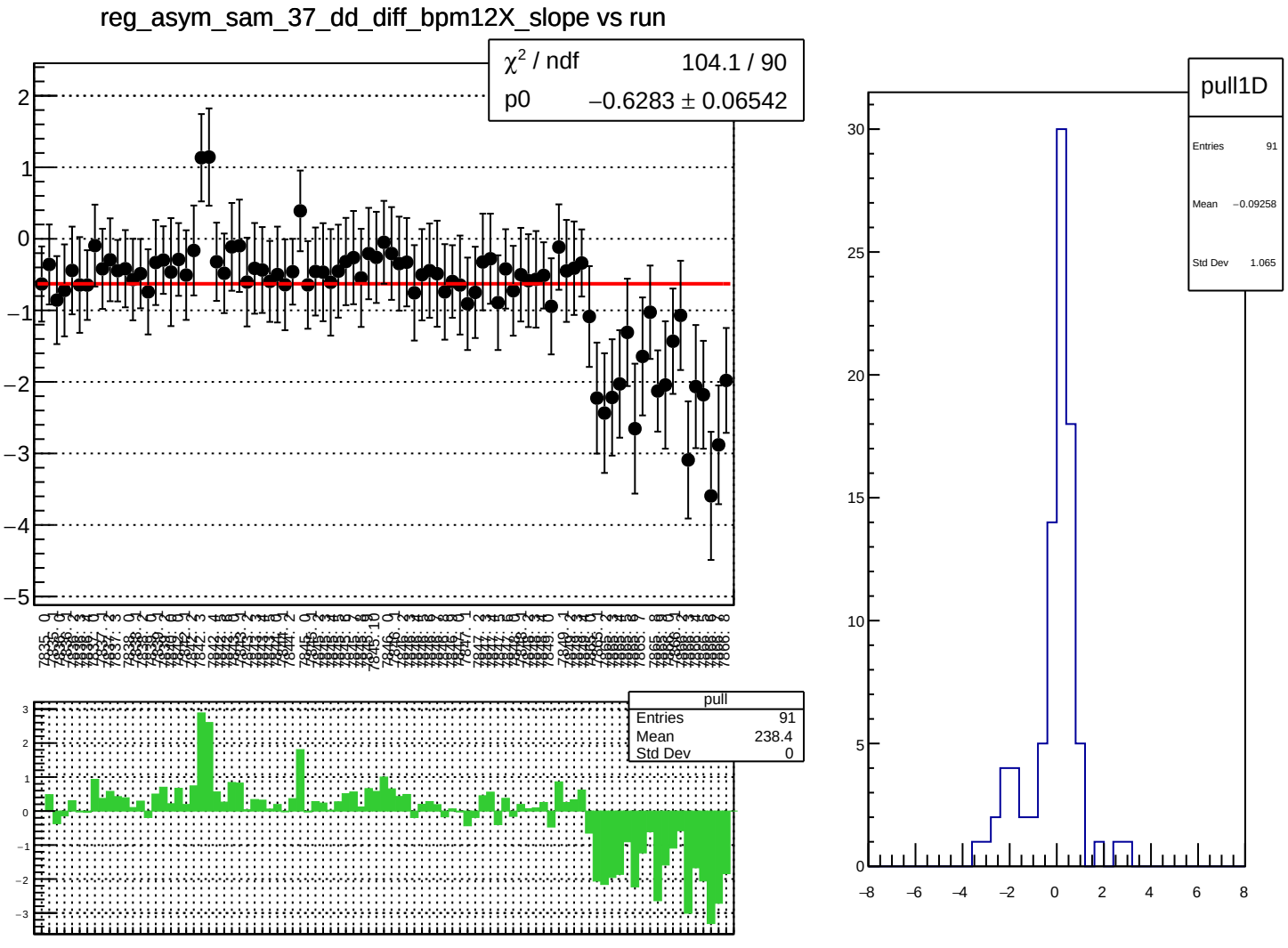

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.9 / 90
p0 −3.809 ± 1.84
pull
Entries 91
Mean 190.7
Std Dev 0

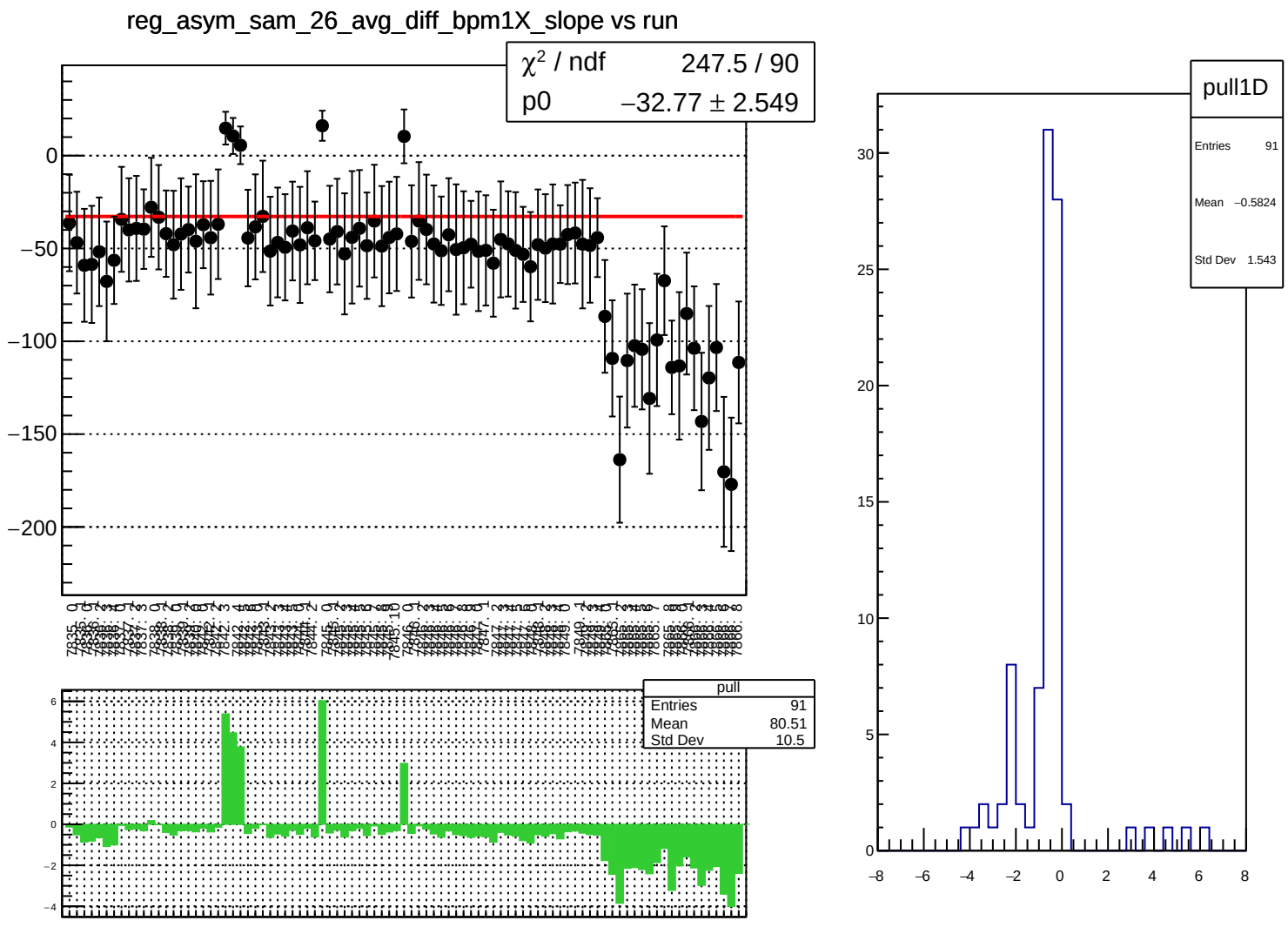

pull1D
Entries 91
Mean 0.05125
Std Dev 0.5513

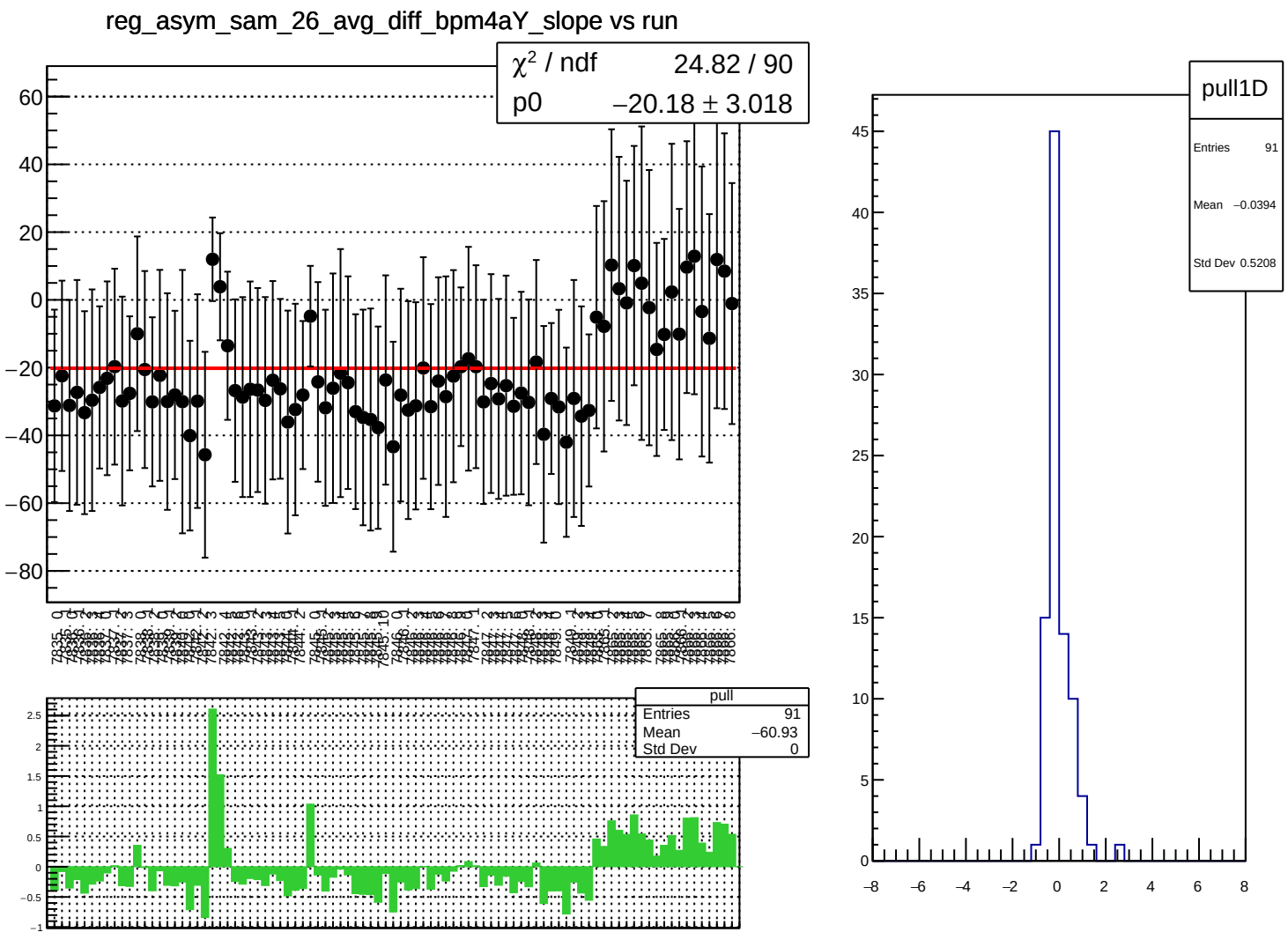

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 186.4 / 90
p0 −5.189 ± 1.321
pull
Entries 91
Mean 78.27
Std Dev 15.29

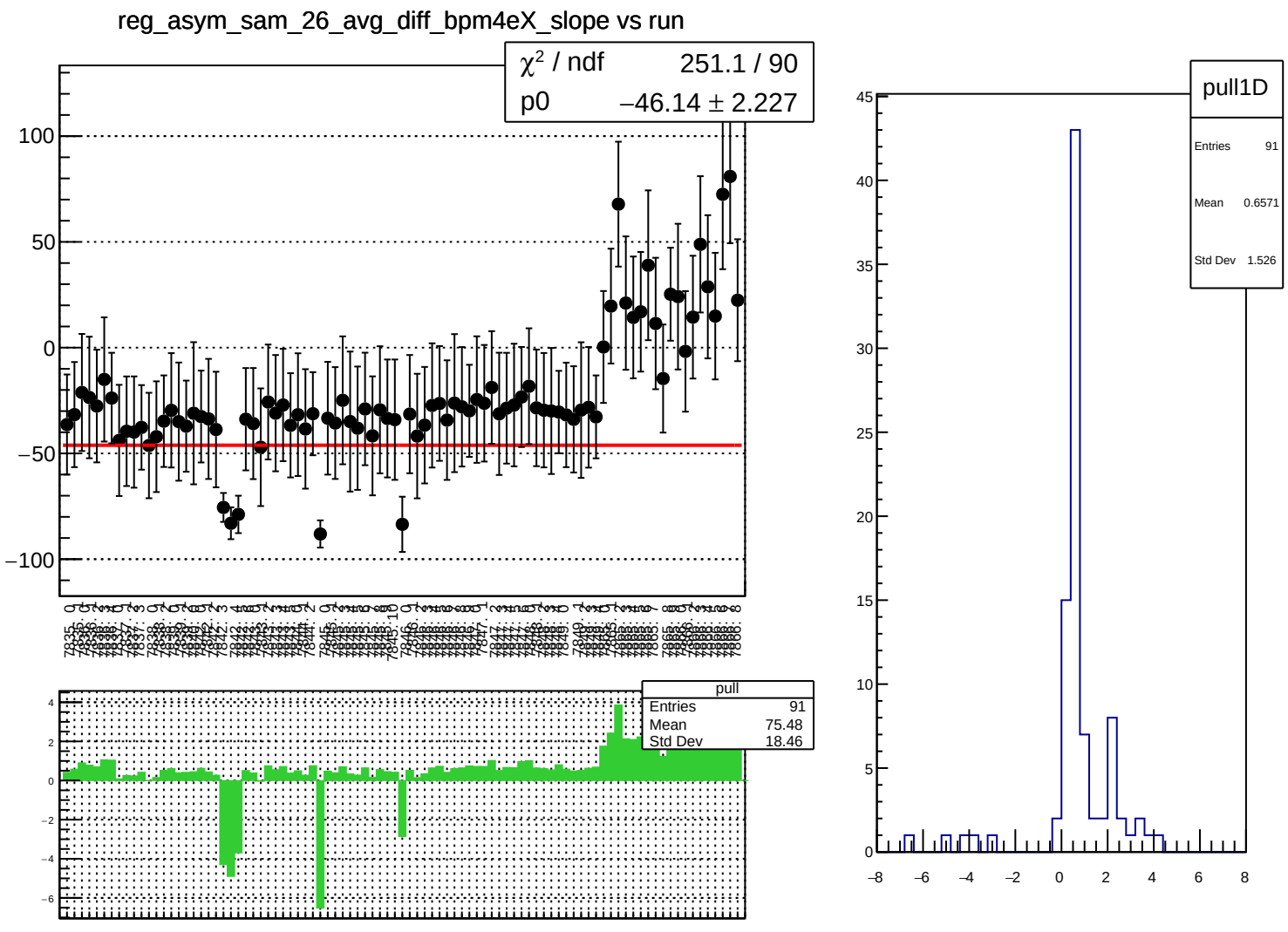

pull1D
Entries 91
Mean 0.5723
Std Dev 1.312

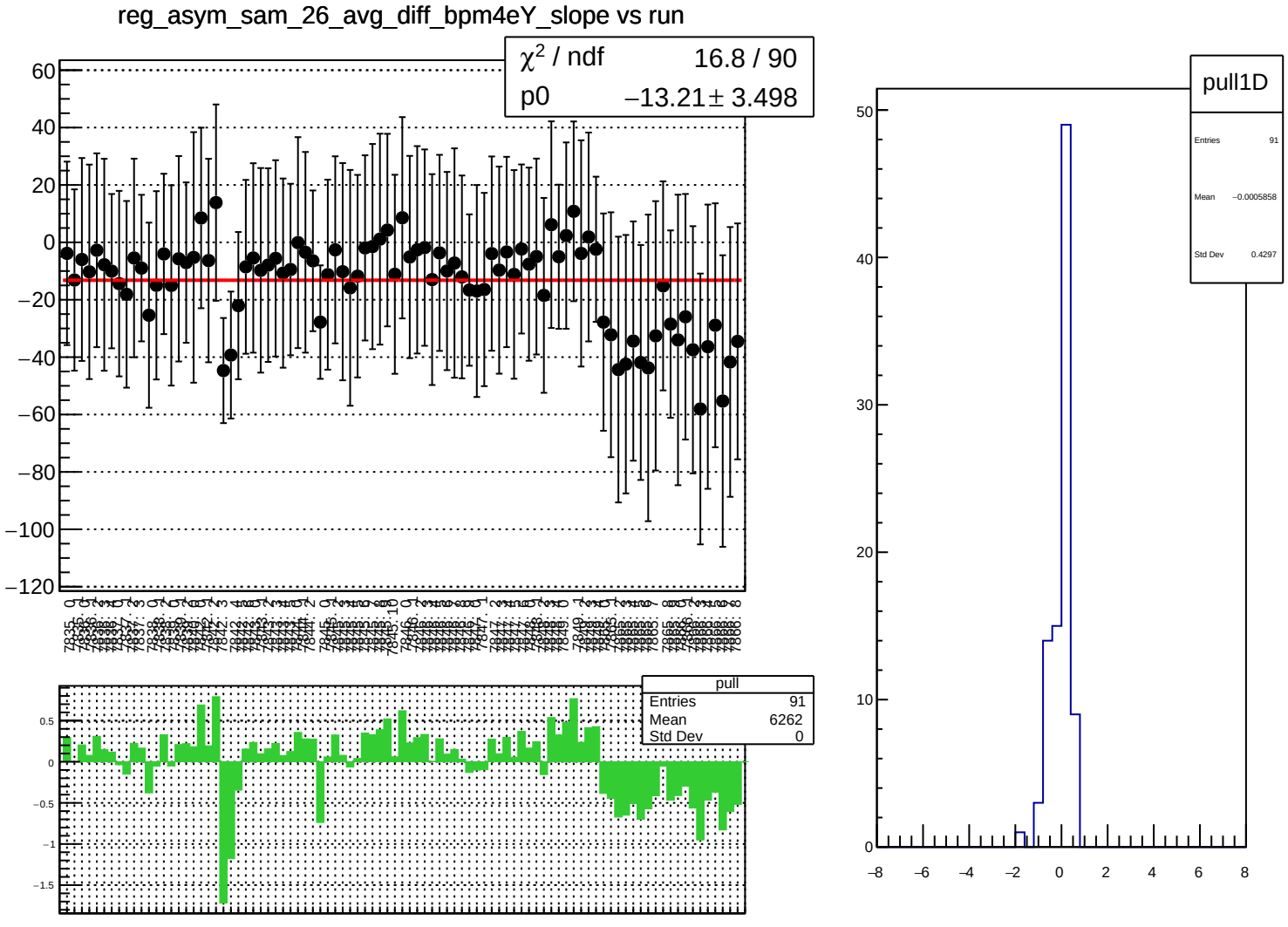

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.04 / 90
p0 14.32 ± 2.15
pull
Entries 91
Mean 171.2
Std Dev 0
pull1D
Entries 91
Mean −0.06068
Std Dev 0.5518

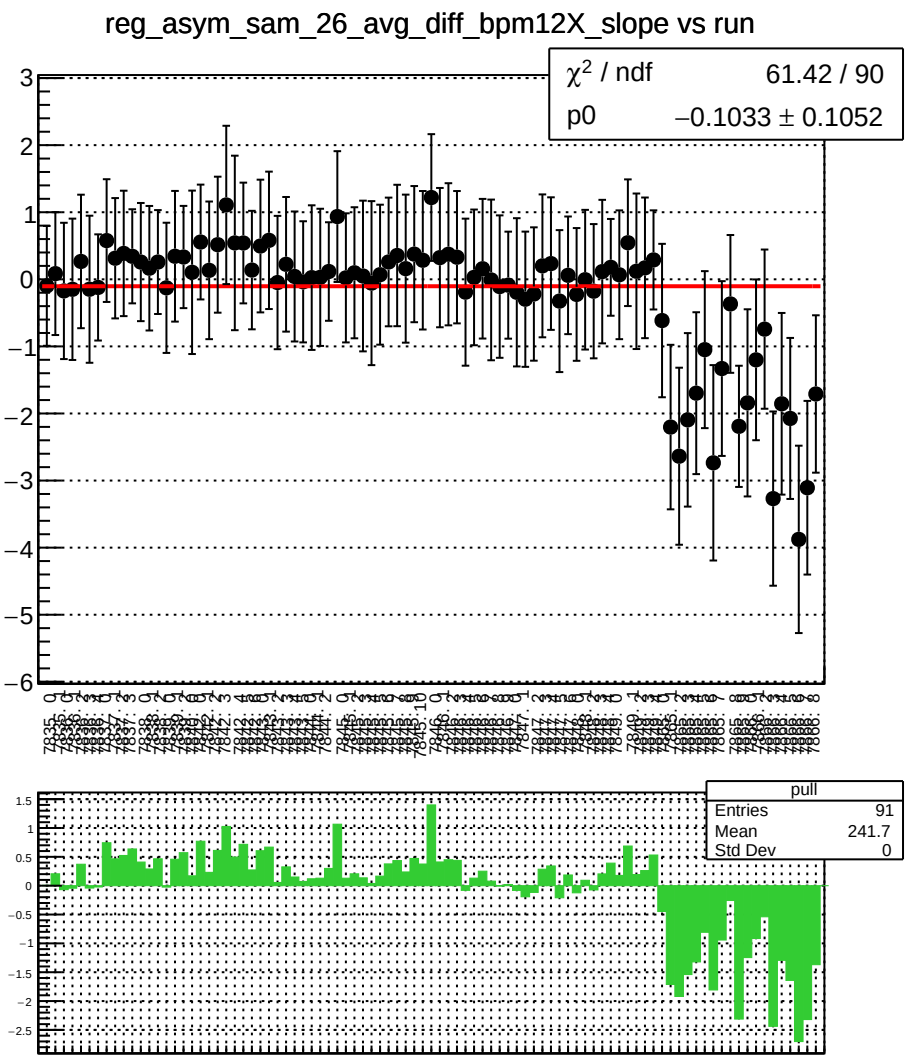

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 104.1 / 90
p0 −0.6283 ± 0.06542
pull
Entries 91
Mean 238.4
Std Dev 0
pull1D
Entries 91
Mean −0.09258
Std Dev 1.065

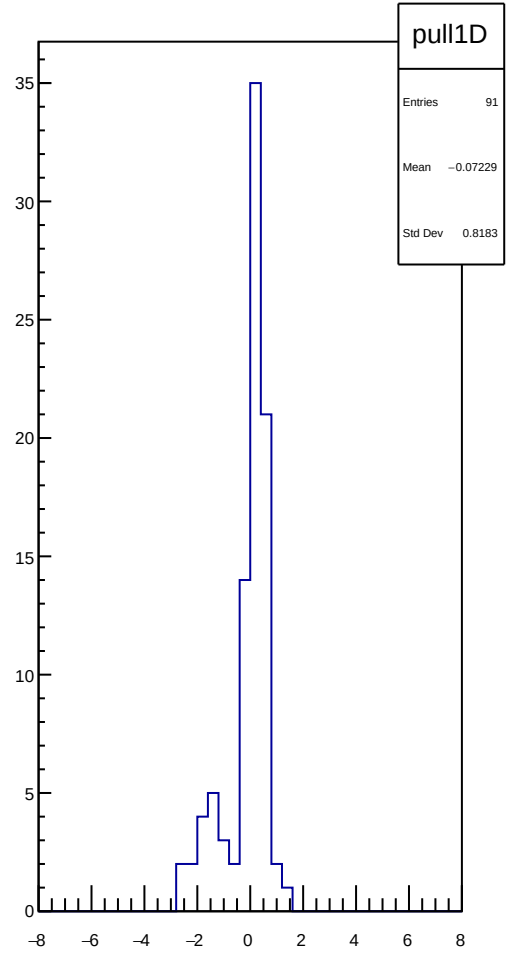

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 247.5 / 90
p0 −32.77 ± 2.549
pull
Entries 91
Mean 80.51
Std Dev 10.5
pull1D
Entries 91
Mean −0.5824
Std Dev 1.543

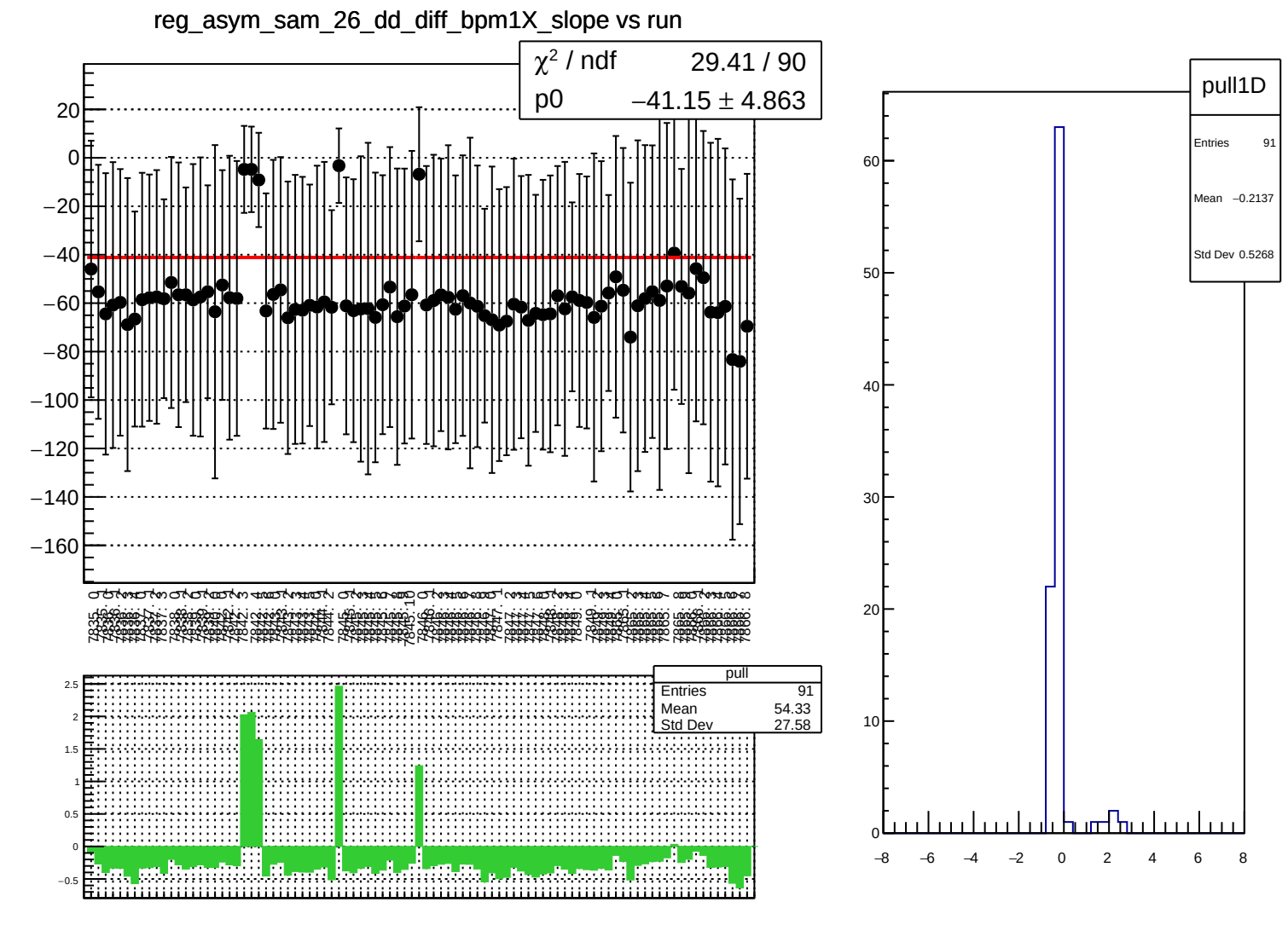

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.82 / 90
p0 −20.18 ± 3.018
pull
Entries 91
Mean −60.93
Std Dev 0
pull1D
Entries 91
Mean −0.0394
Std Dev 0.5208

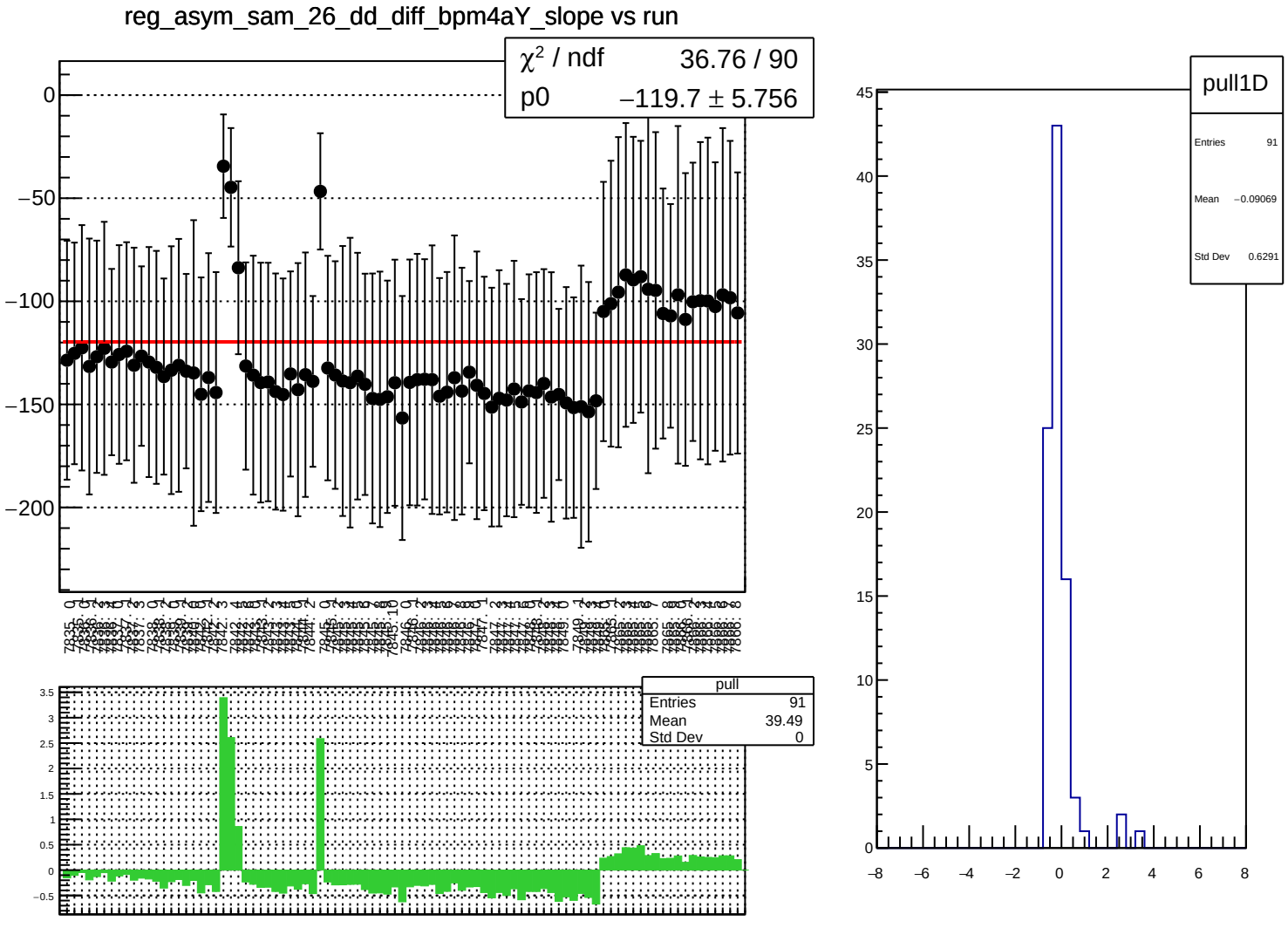

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 251.1 / 90
p0 −46.14 ± 2.227
pull
Entries 91
Mean 75.48
Std Dev 18.46
pull1D
Entries 91
Mean 0.6571
Std Dev 1.526

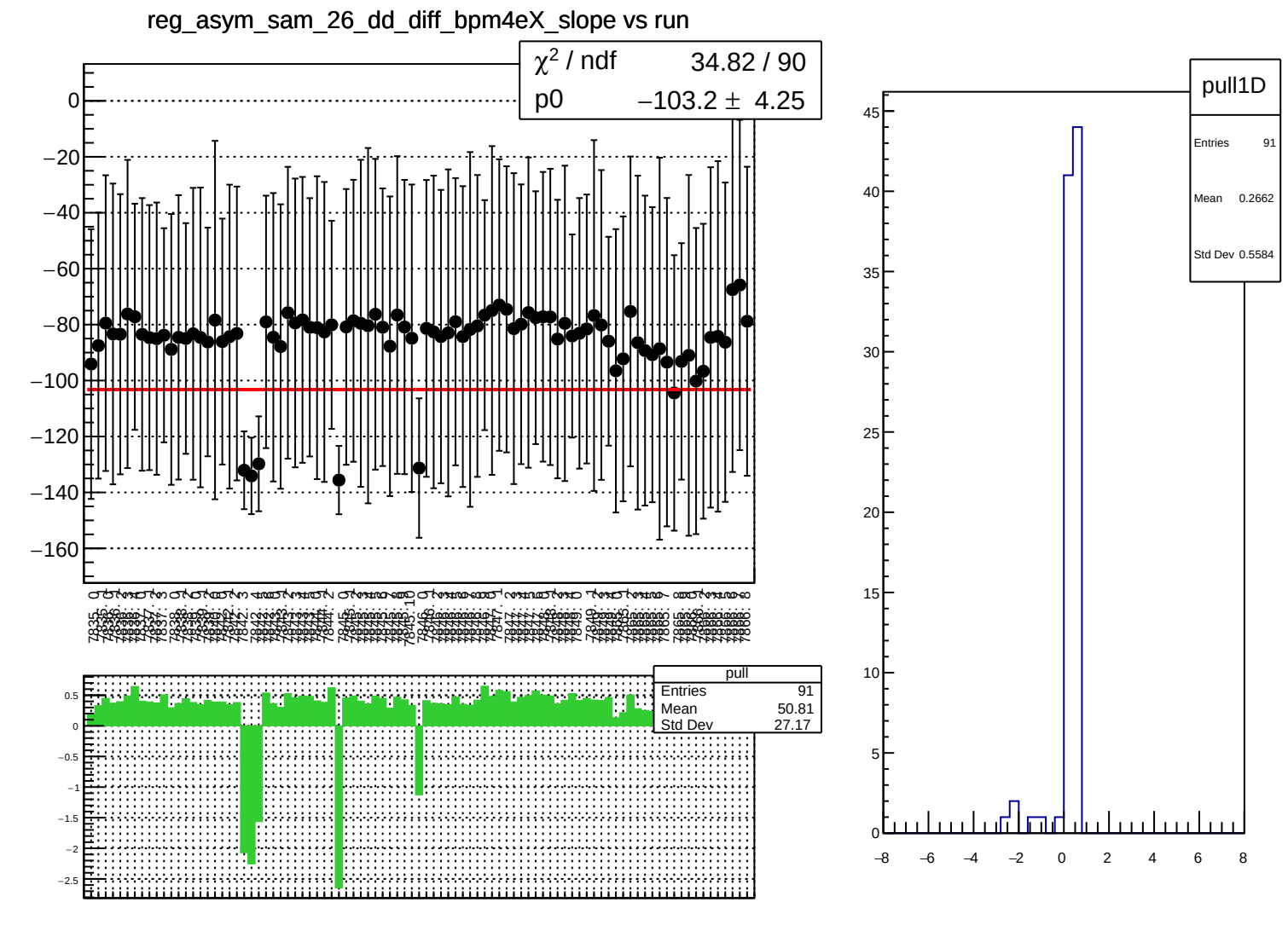

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.8 / 90
p0 −13.21± 3.498
pull
Entries 91
Mean 6262
Std Dev 0
pull1D
Entries 91
Mean −0.0005858
Std Dev 0.4297

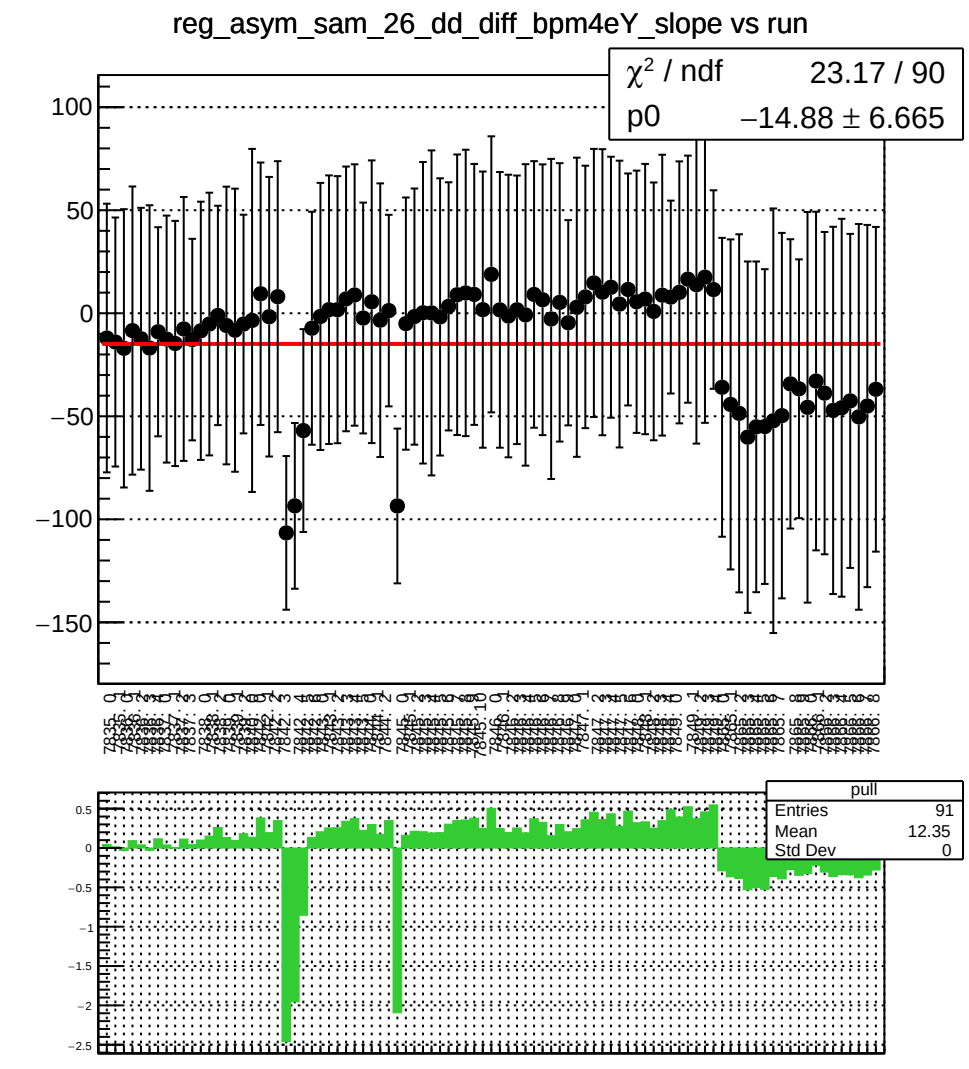

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 61.42 / 90
p0 −0.1033 ± 0.1052
pull
Entries 91
Mean 241.7
Std Dev 0

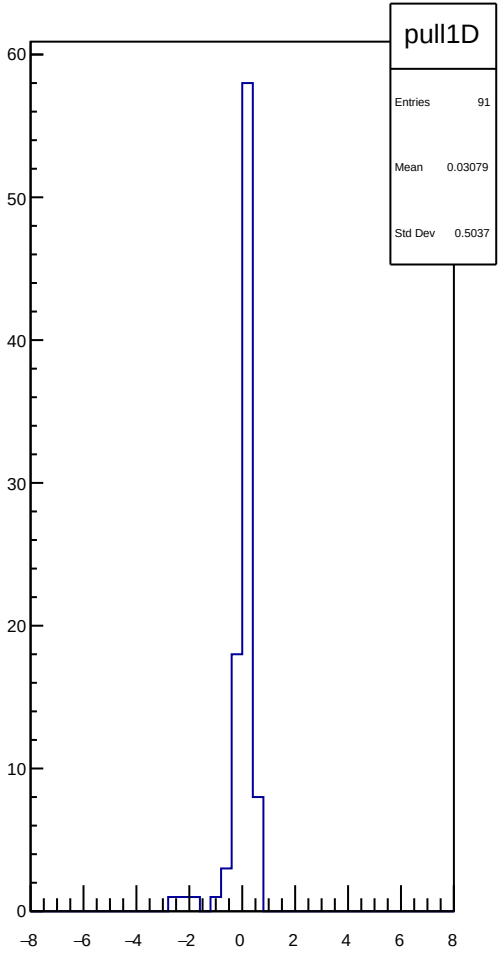

pull1D
Entries 91
Mean −0.07229
Std Dev 0.8183

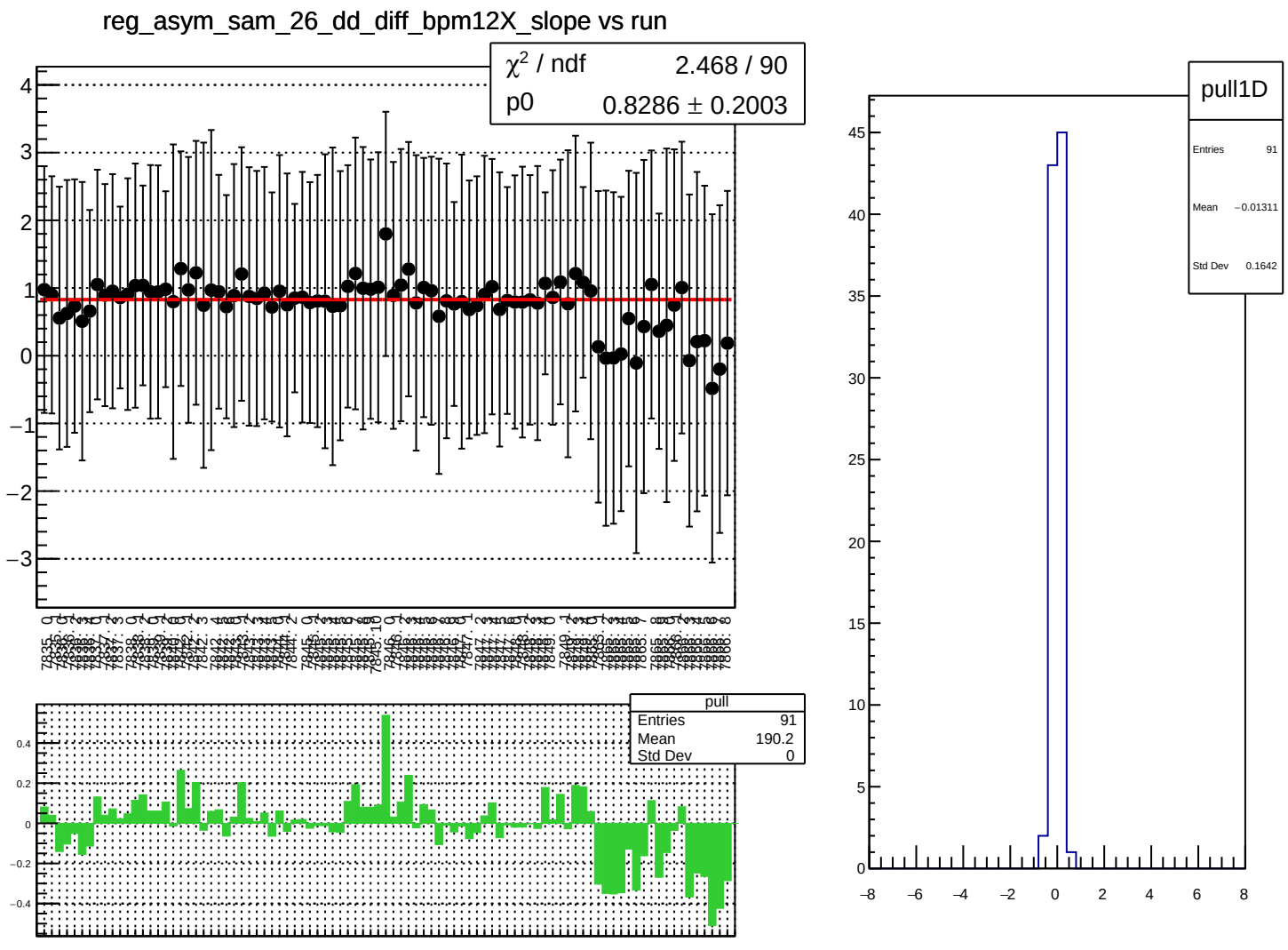

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 29.41 / 90
p0 −41.15 ± 4.863
pull
Entries 91
Mean 54.33
Std Dev 27.58
pull1D
Entries 91
Mean −0.2137
Std Dev 0.5268

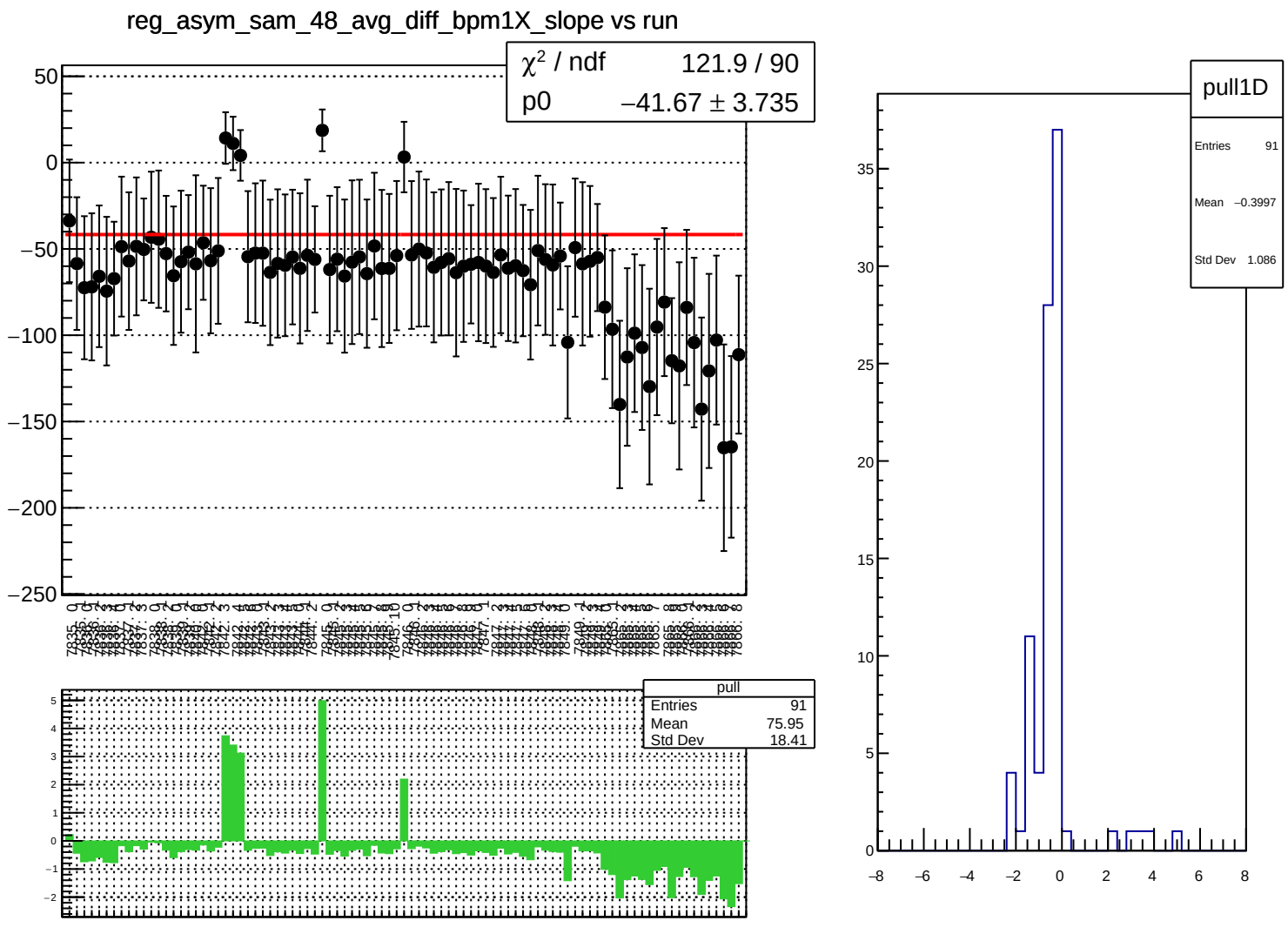

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.76 / 90
p0 −119.7 ± 5.756
pull
Entries 91
Mean 39.49
Std Dev 0
pull1D
Entries 91
Mean −0.09069
Std Dev 0.6291

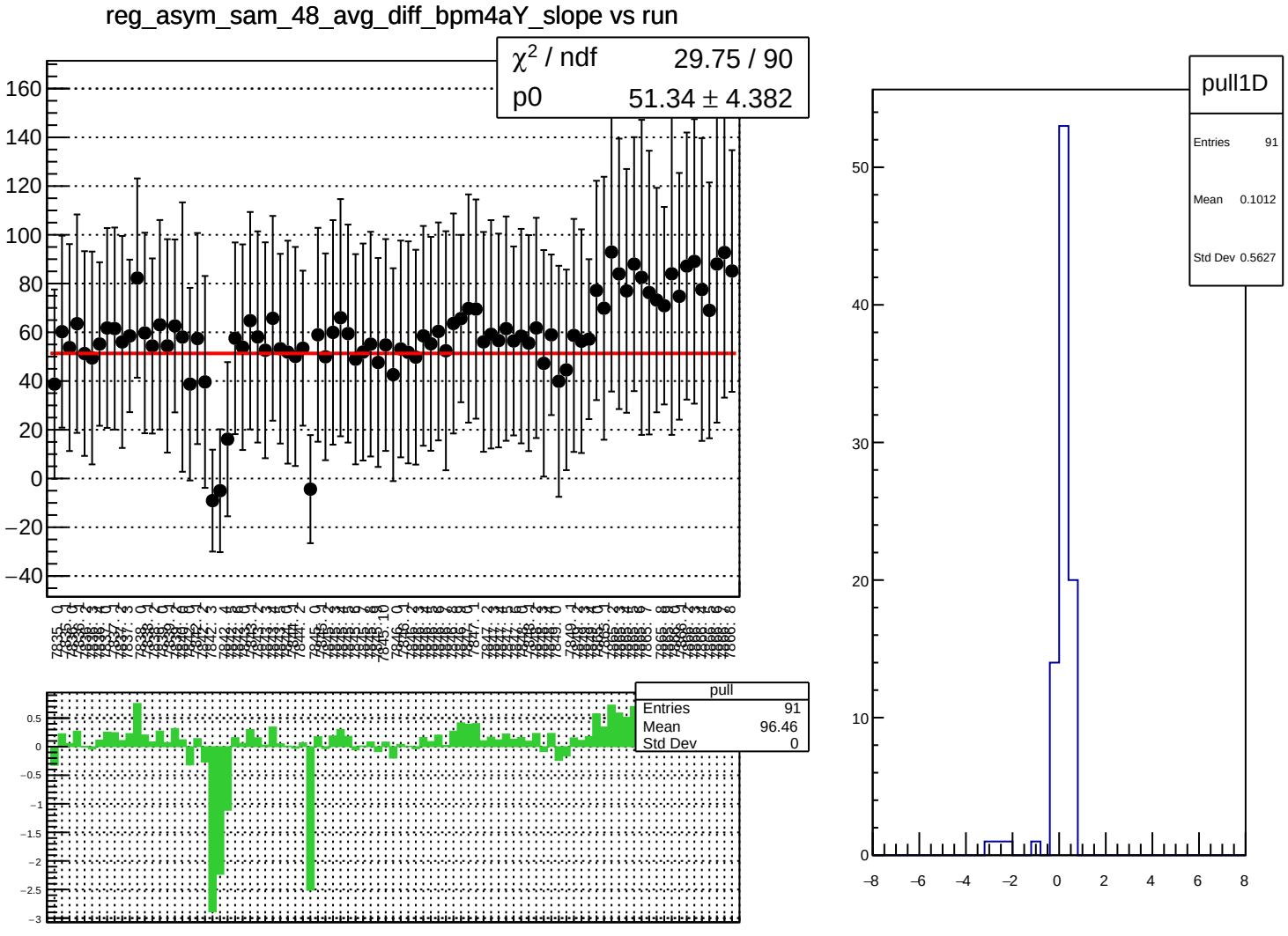

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.82 / 90
p0 −103.2 ± 4.25
pull
Entries 91
Mean 50.81
Std Dev 27.17
pull1D
Entries 91
Mean 0.2662
Std Dev 0.5584

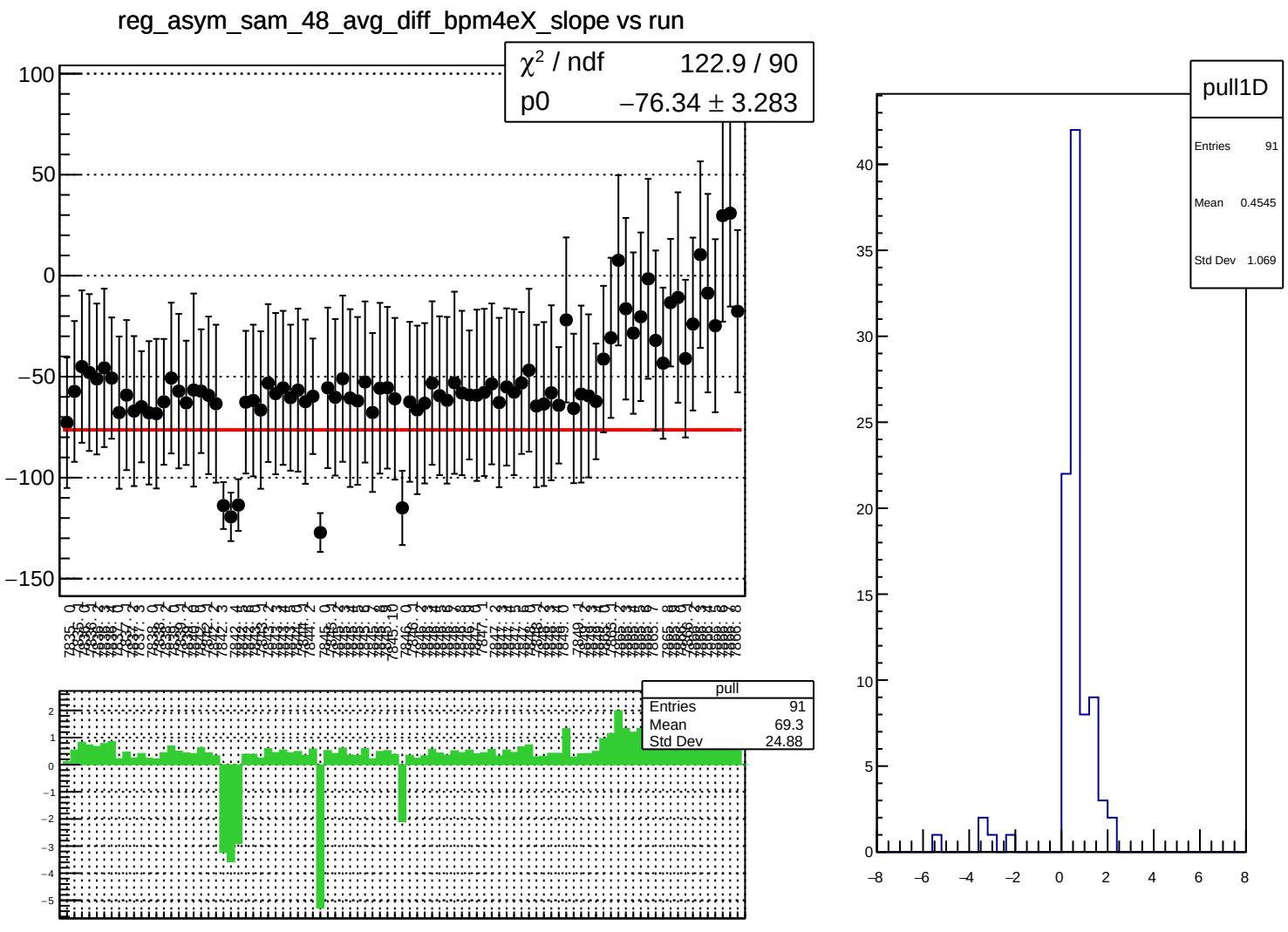

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.17 / 90
p0 −14.88 ± 6.665
pull
Entries 91
Mean 12.35
Std Dev 0

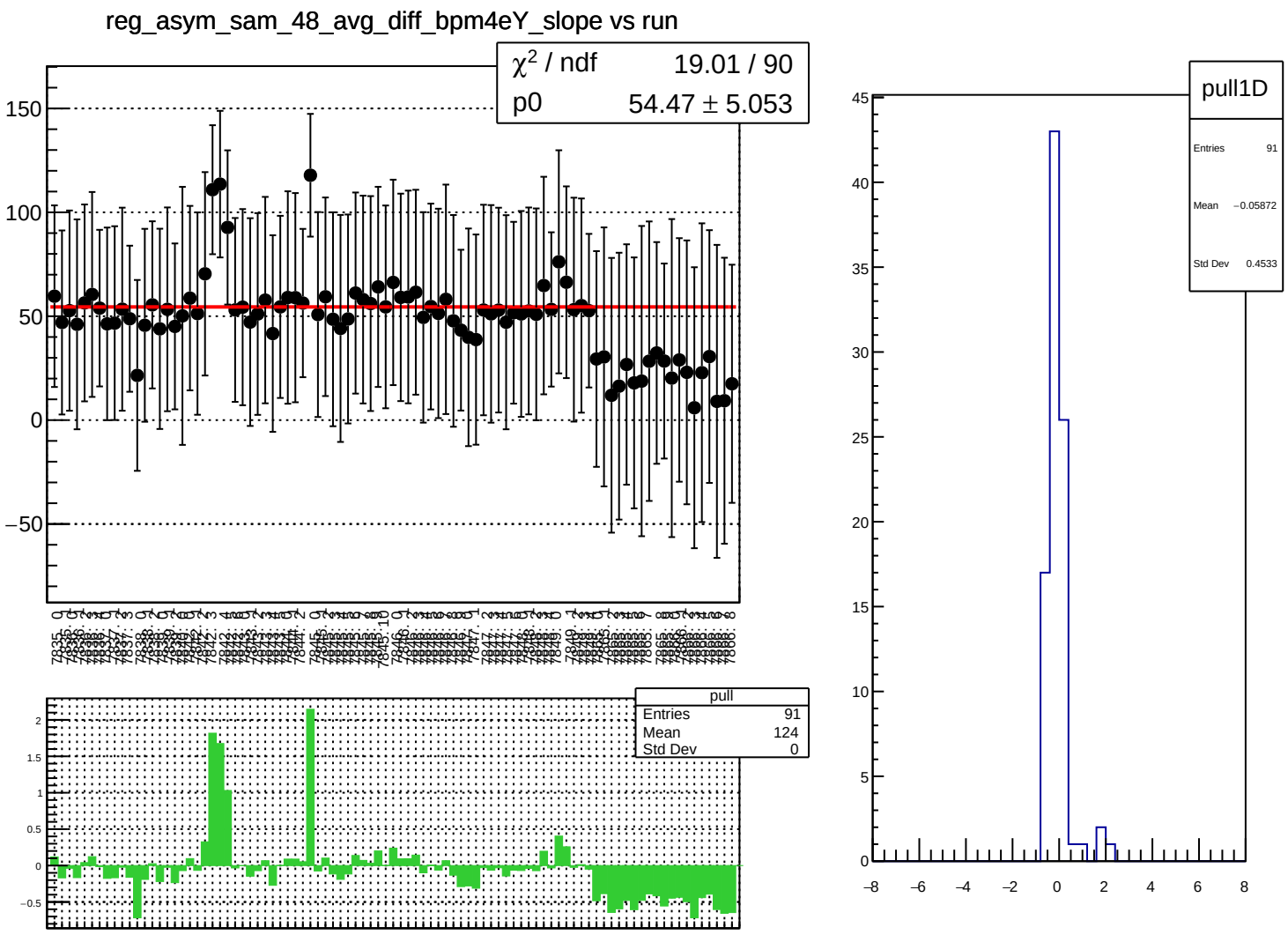

pull1D
Entries 91
Mean 0.03079
Std Dev 0.5037

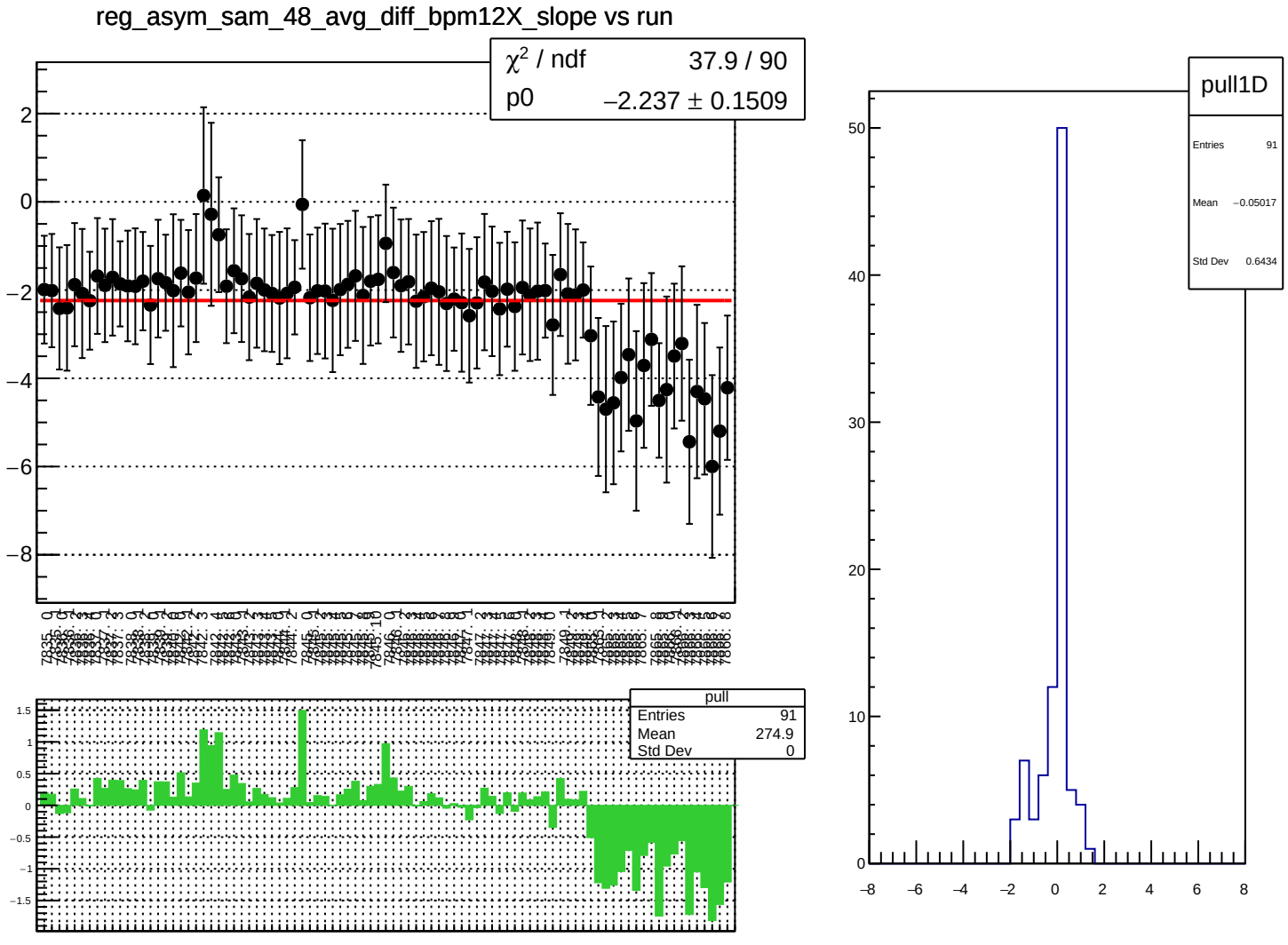

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.468 / 90
p0 0.8286 ± 0.2003
pull
Entries 91
Mean 190.2
Std Dev 0
pull1D
Entries 91
Mean −0.01311
Std Dev 0.1642

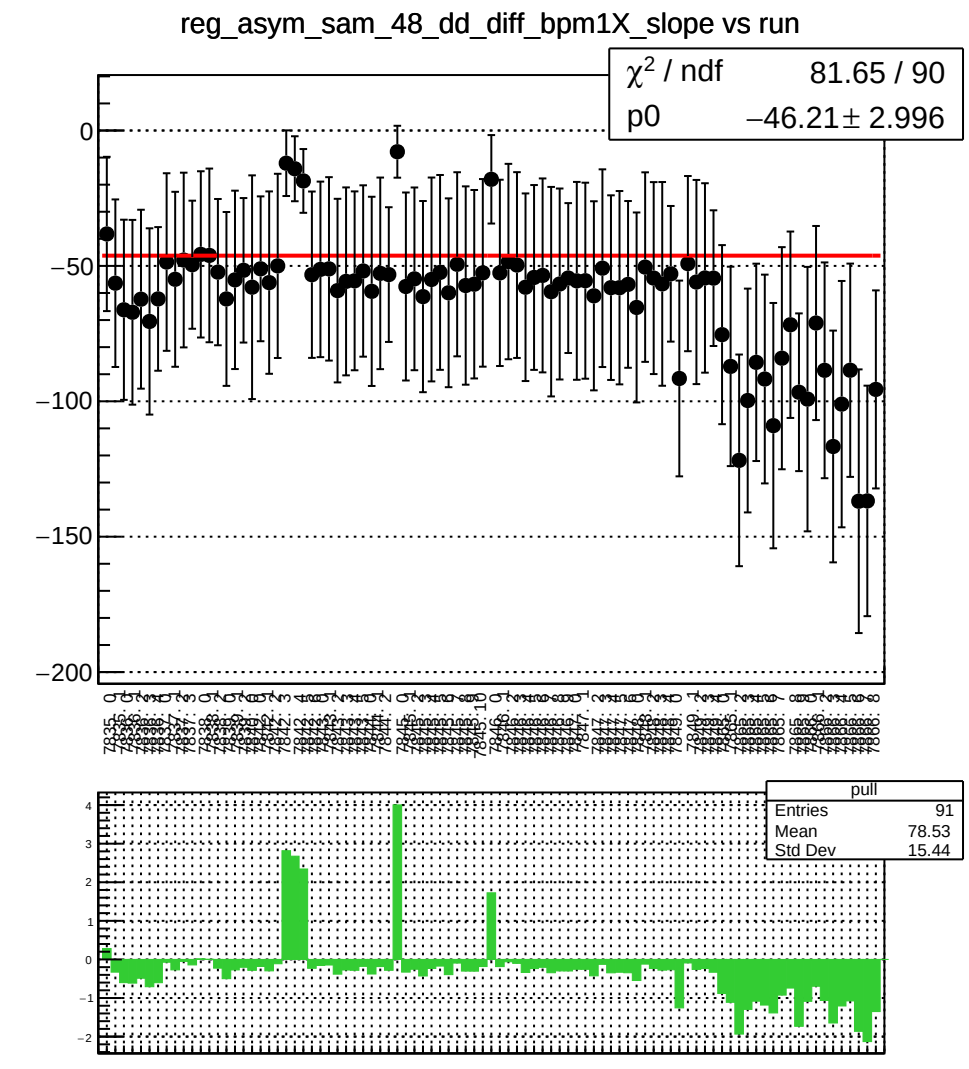

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 121.9 / 90
p0 −41.67 ± 3.735
pull
Entries 91
Mean 75.95
Std Dev 18.41
pull1D
Entries 91
Mean −0.3997
Std Dev 1.086

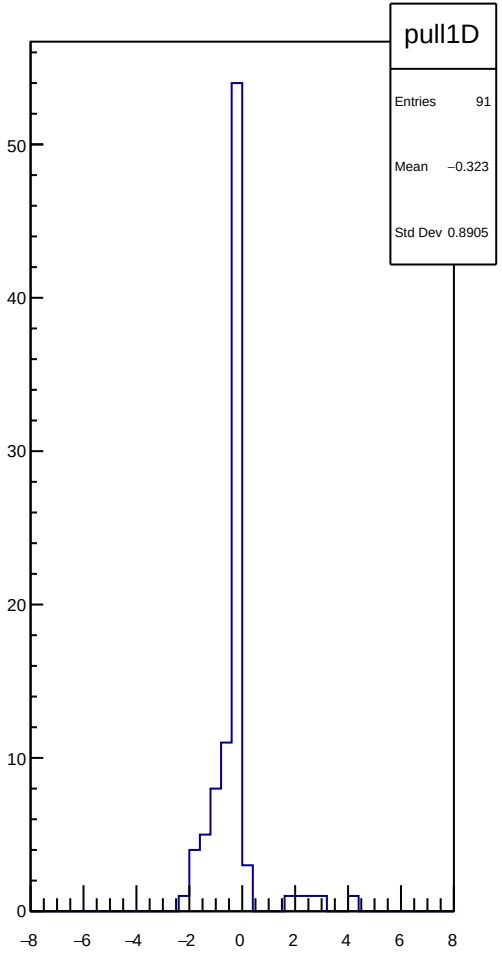

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.75 / 90
p0 51.34 ± 4.382
pull
Entries 91
Mean 96.46
Std Dev 0
pull1D
Entries 91
Mean 0.1012
Std Dev 0.5627

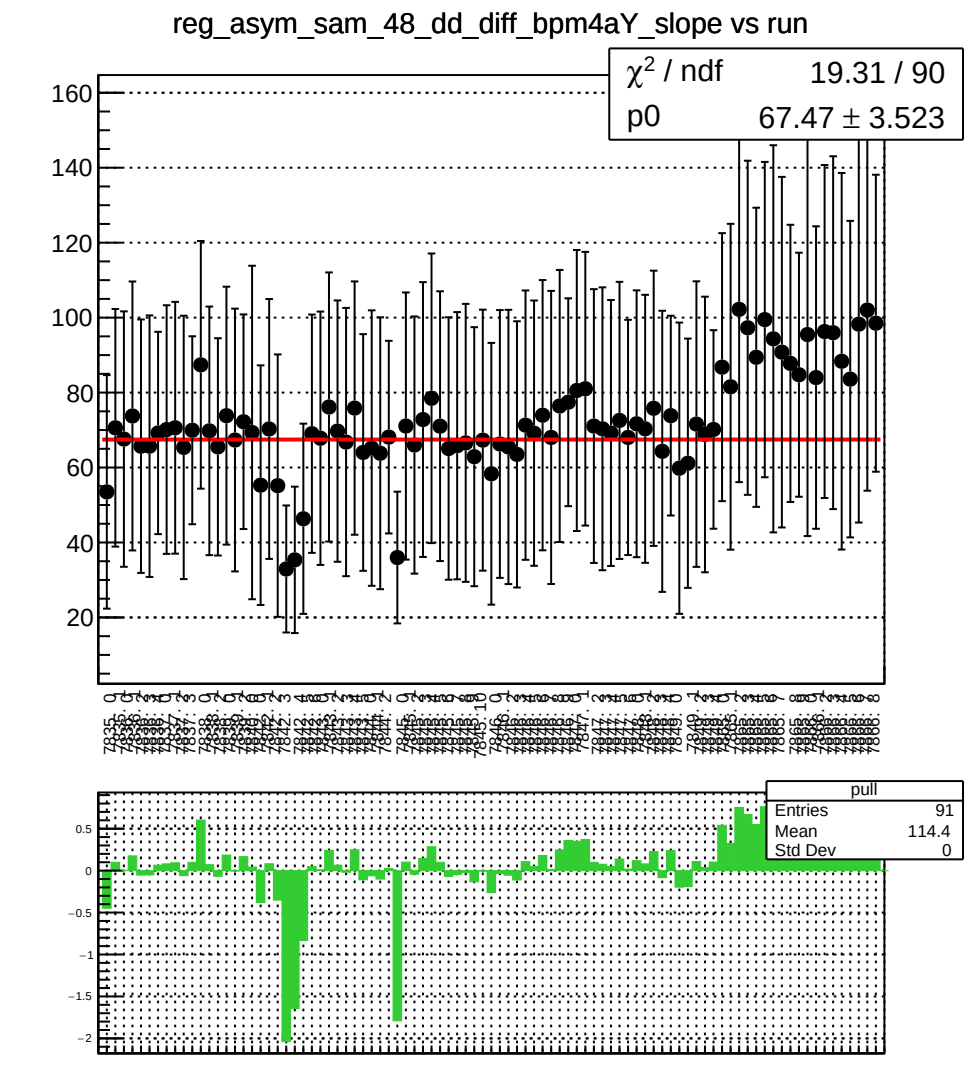

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 122.9 / 90
p0 −76.34 ± 3.283
pull
Entries 91
Mean 69.3
Std Dev 24.88
pull1D
Entries 91
Mean 0.4545
Std Dev 1.069

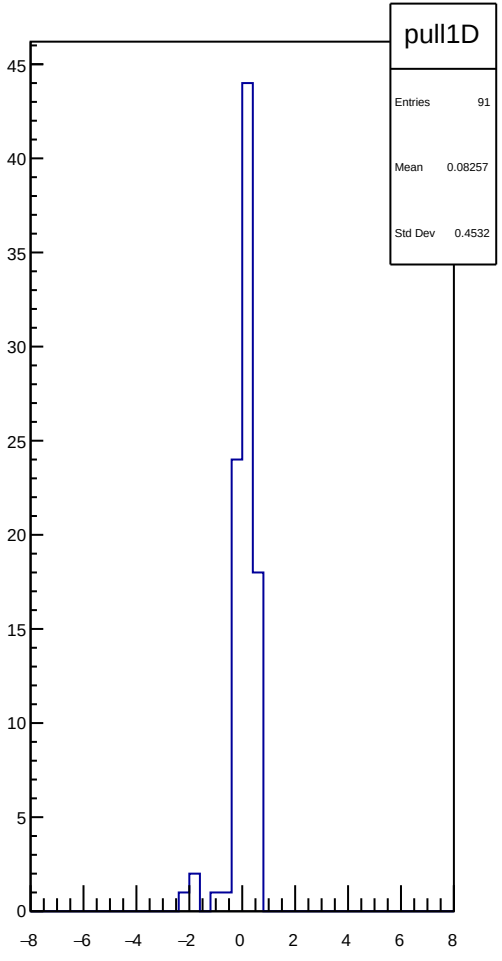

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.01 / 90
p0 54.47 ± 5.053
150
100
50
0
−50
pull
Entries 91
Mean 124
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.05872
Std Dev 0.4533
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

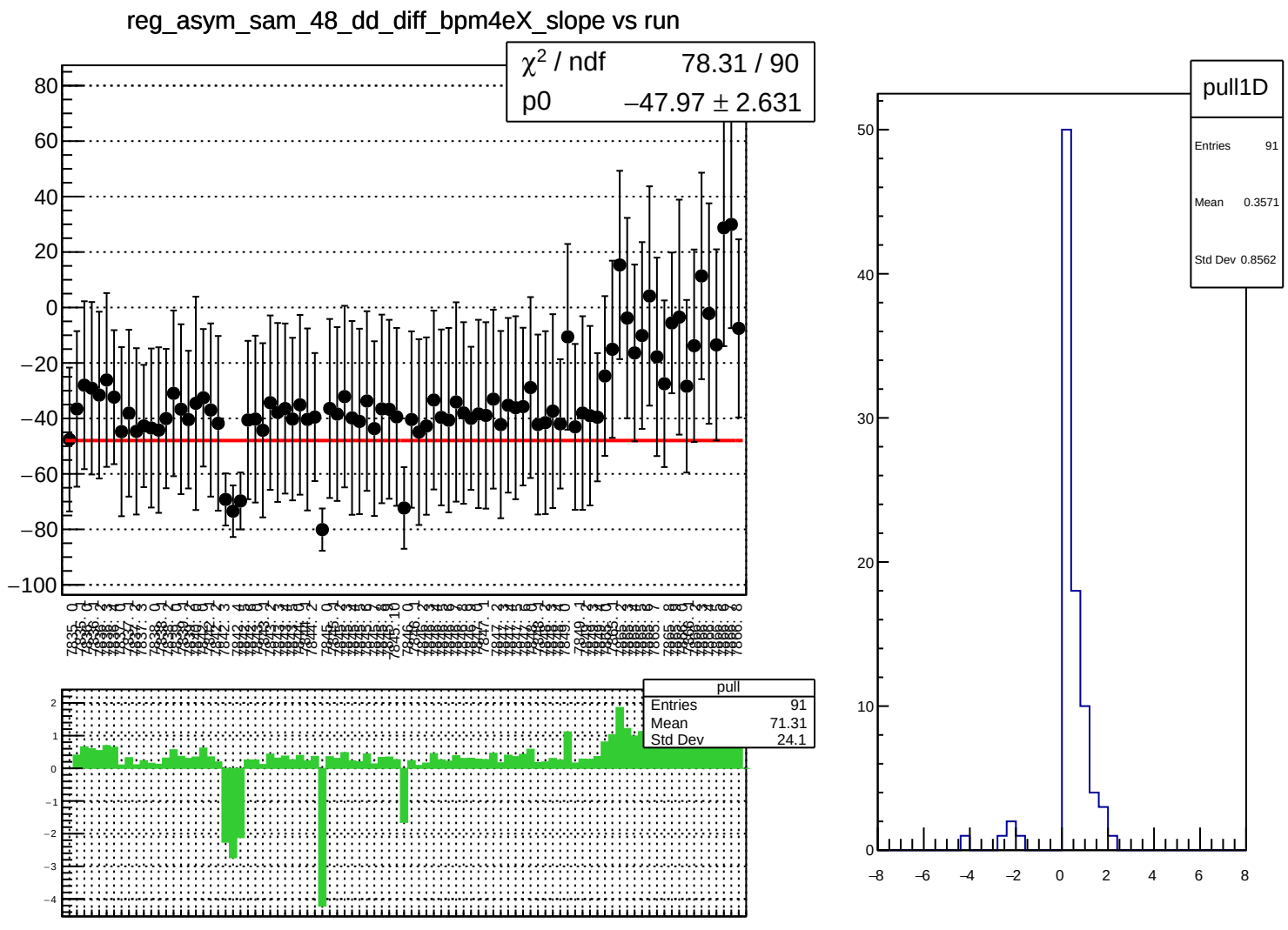

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 37.9 / 90
p0 −2.237 ± 0.1509
pull
Entries 91
Mean 274.9
Std Dev 0
pull1D
Entries 91
Mean −0.05017
Std Dev 0.6434

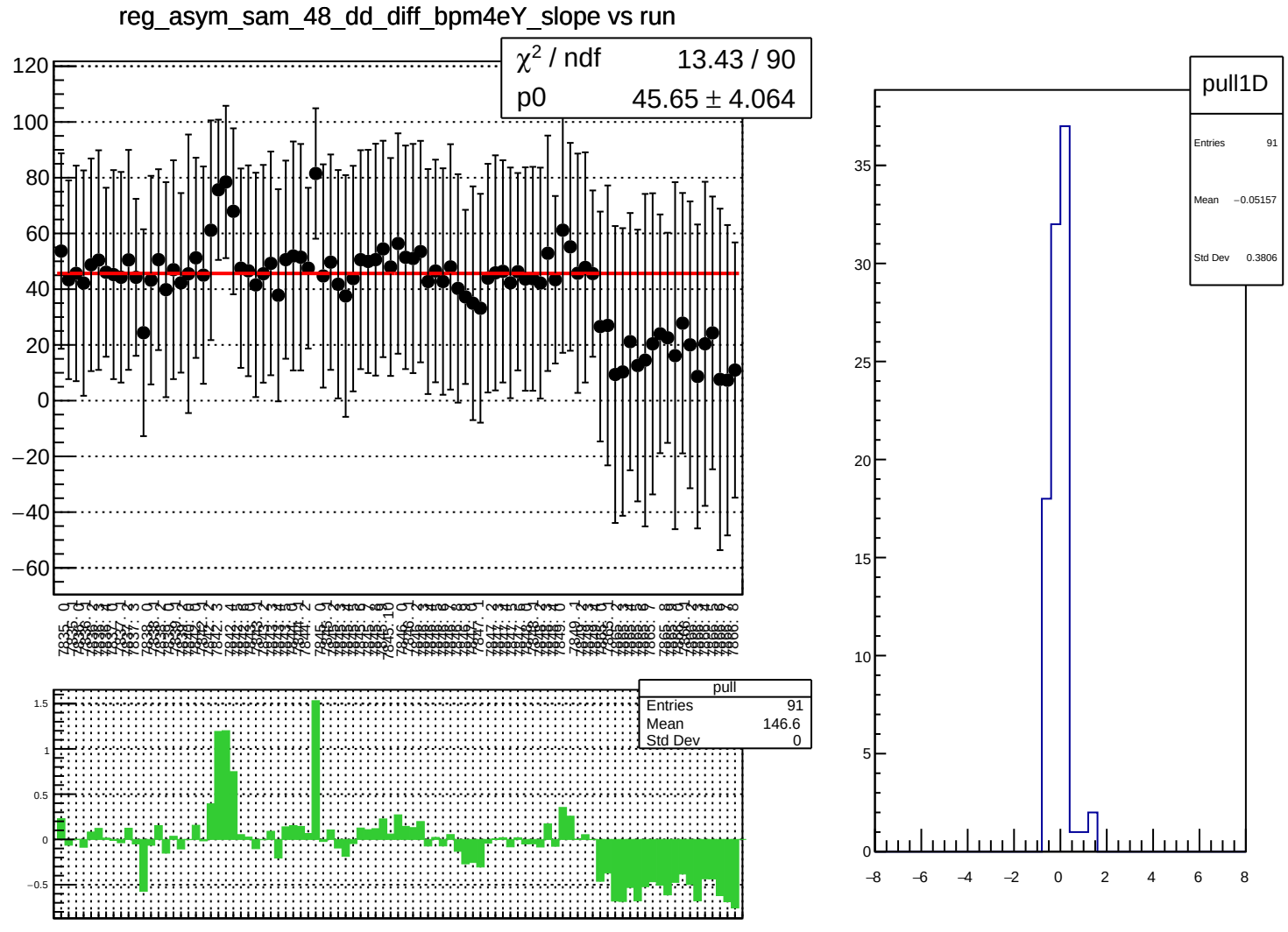

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 81.65 / 90
p0 −46.21 ± 2.996
0
−50
−100
−150
−200
pull
Entries 91
Mean 78.53
Std Dev 15.44
4
3
2
1
0
−1
−2

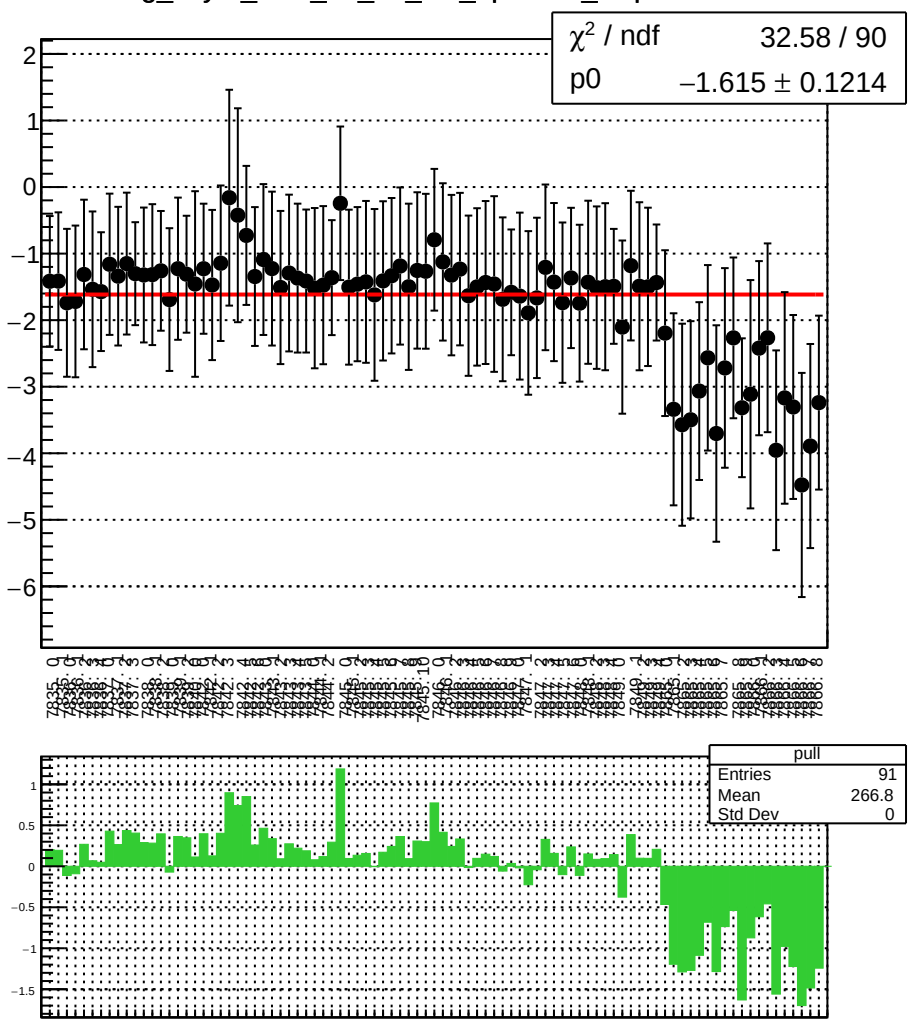

pull1D
Entries 91
Mean −0.323
Std Dev 0.8905
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

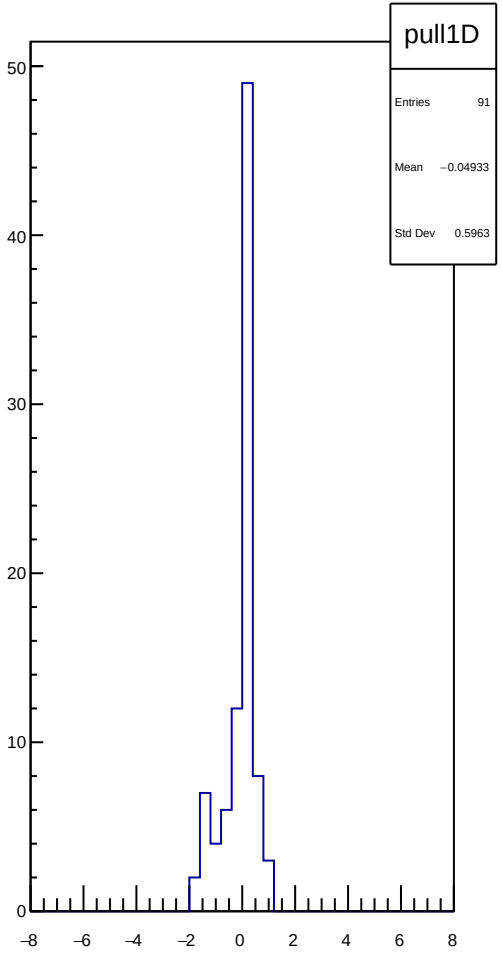

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.31 / 90
p0 67.47 ± 3.523
pull
Entries 91
Mean 114.4
Std Dev 0

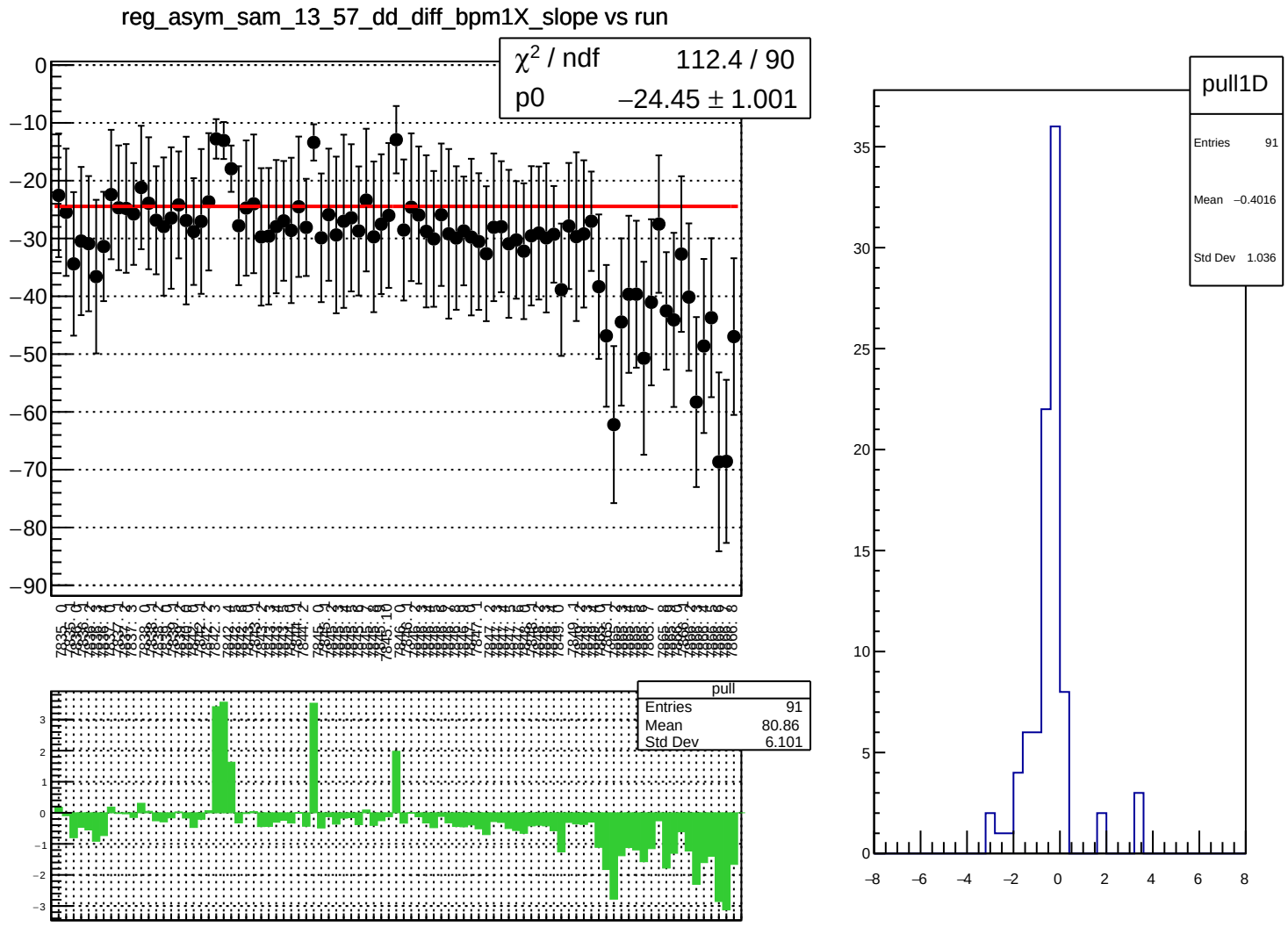

pull1D
Entries 91
Mean 0.08257
Std Dev 0.4532

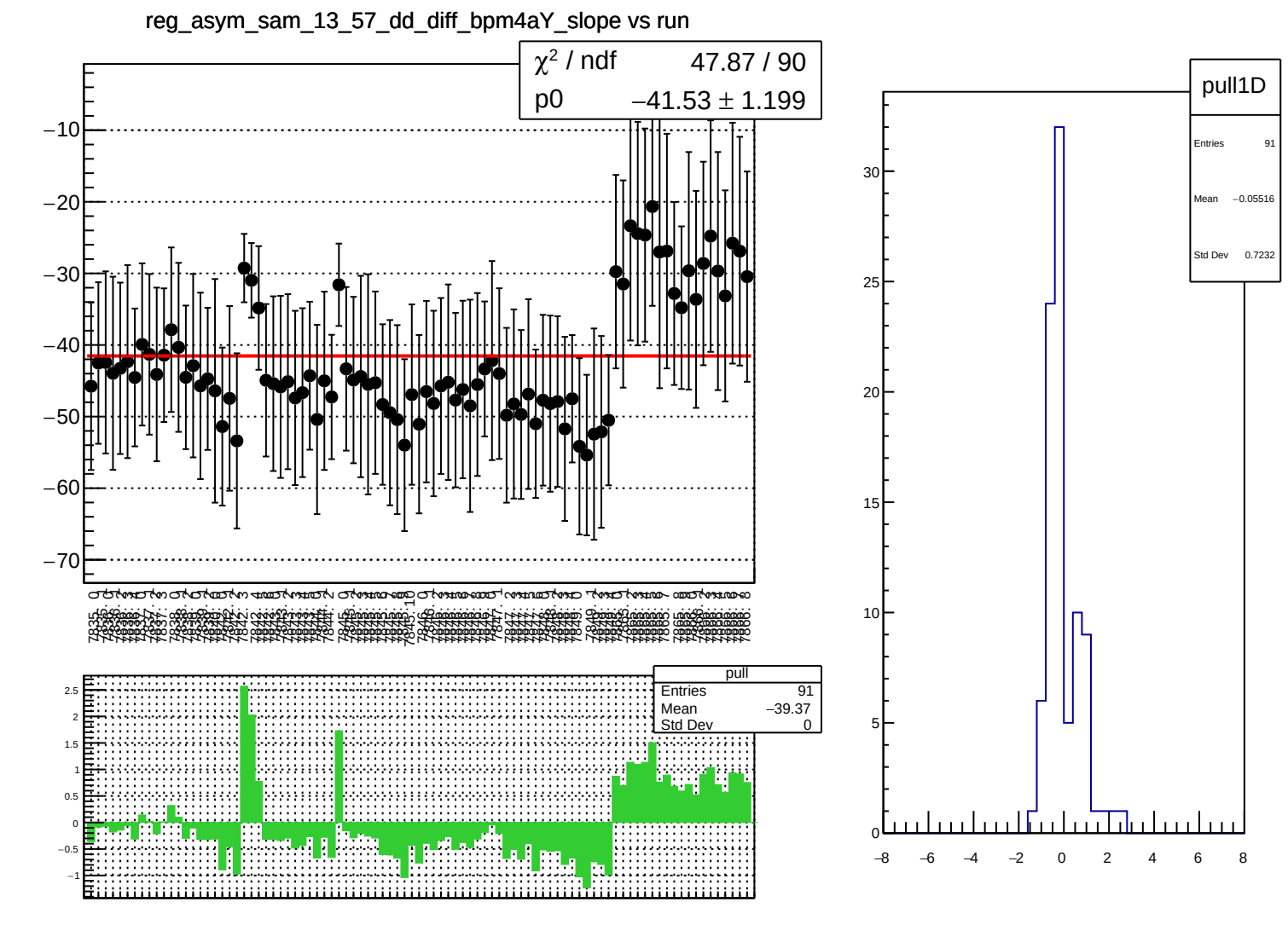

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.31 / 90
p0 −47.97 ± 2.631
pull
Entries 91
Mean 71.31
Std Dev 24.1
pull1D
Entries 91
Mean 0.3571
Std Dev 0.8562

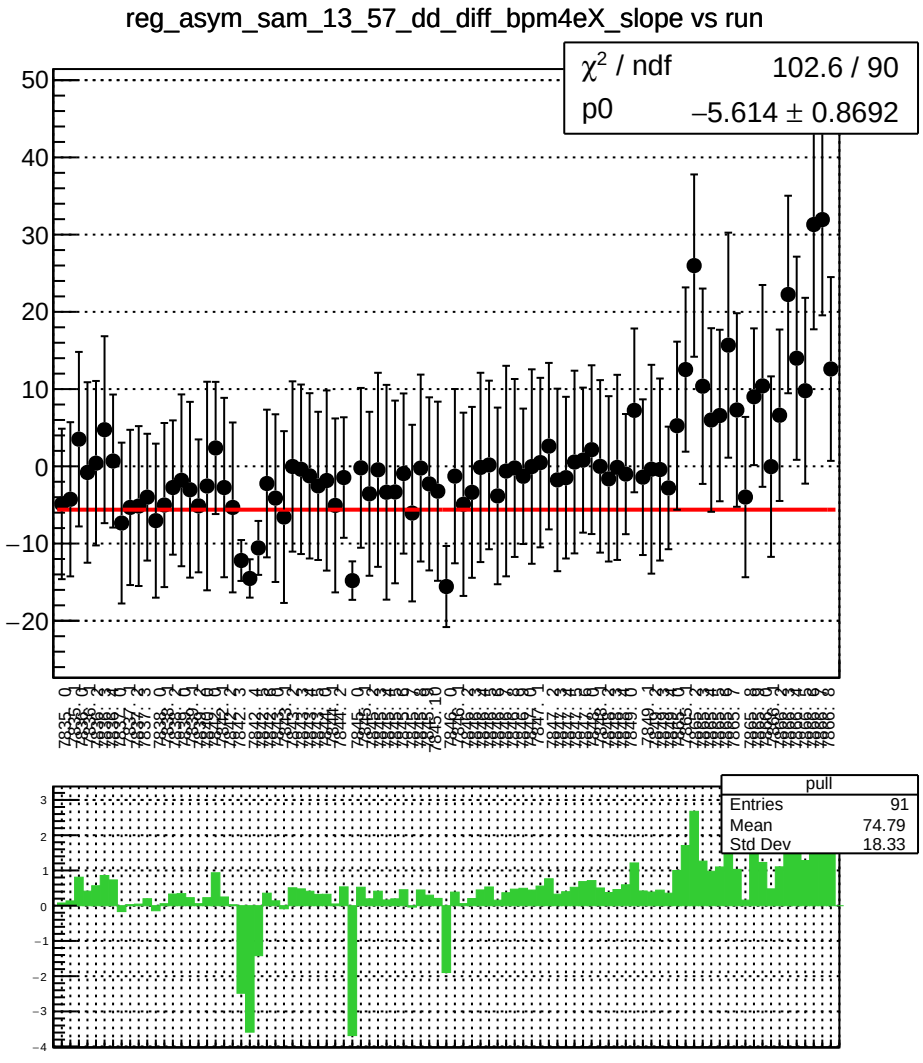

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.43 / 90
p0 45.65 ± 4.064
pull
Entries 91
Mean 146.6
Std Dev 0
pull1D
Entries 91
Mean −0.05157
Std Dev 0.3806

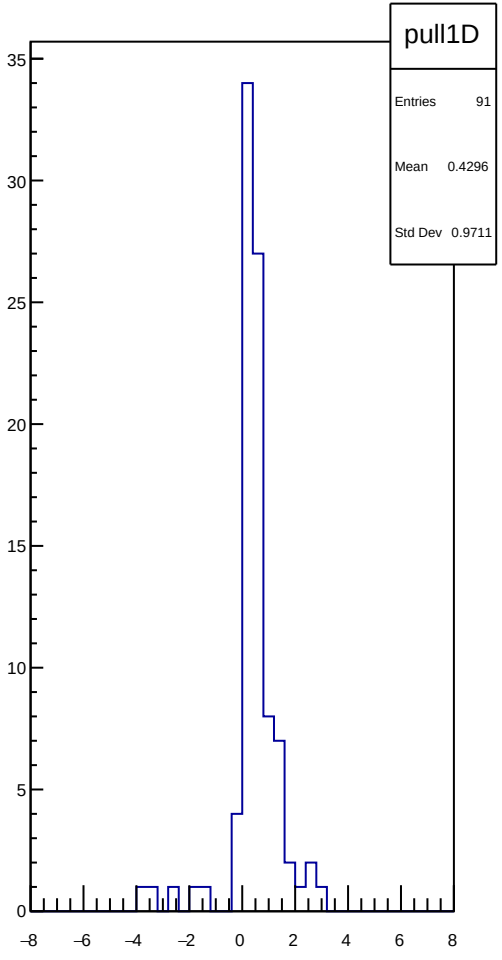

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 32.58 / 90
p0 −1.615 ± 0.1214
pull
Entries 91
Mean 266.8
Std Dev 0

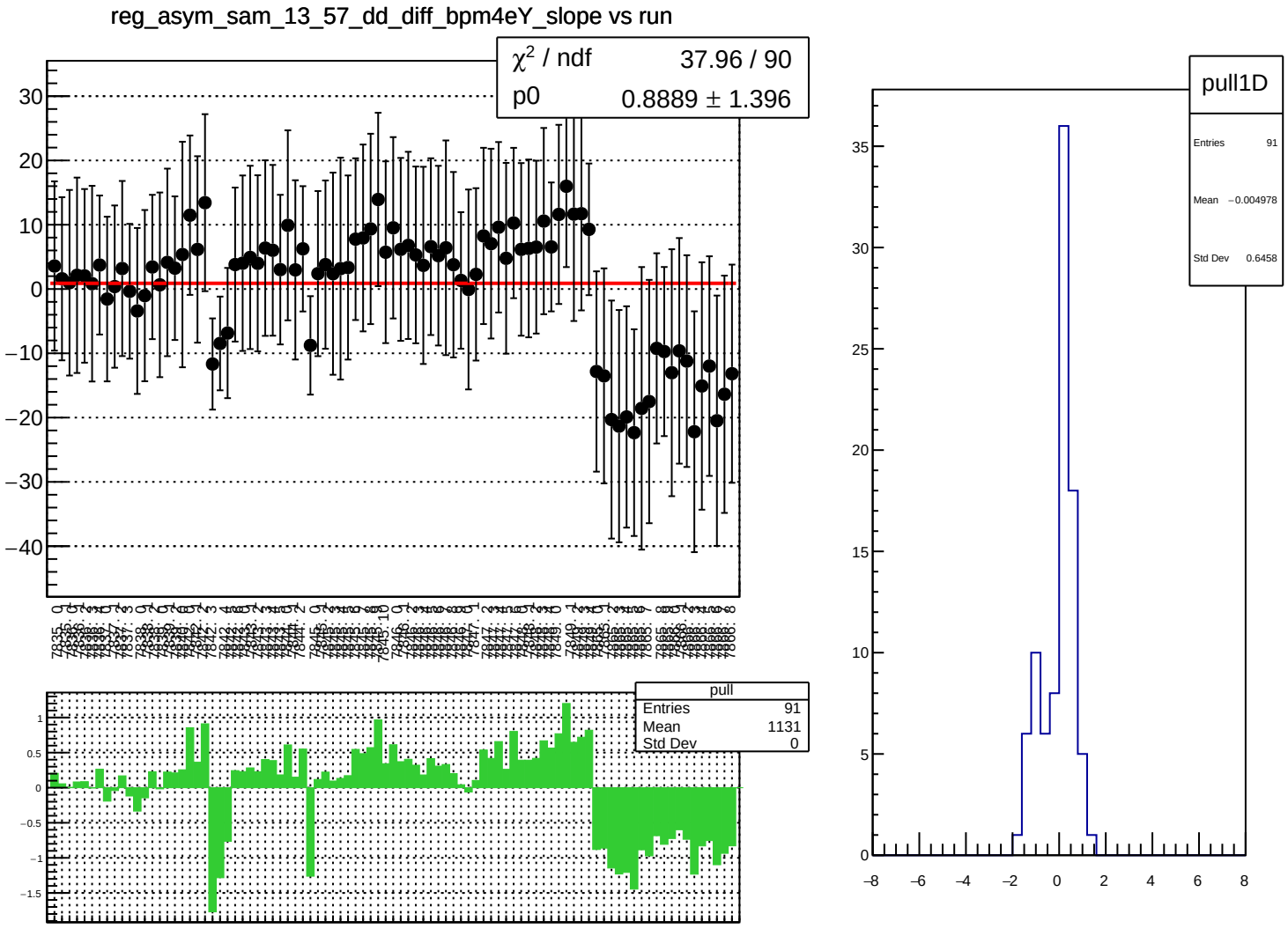

pull1D
Entries 91
Mean −0.04933
Std Dev 0.5963

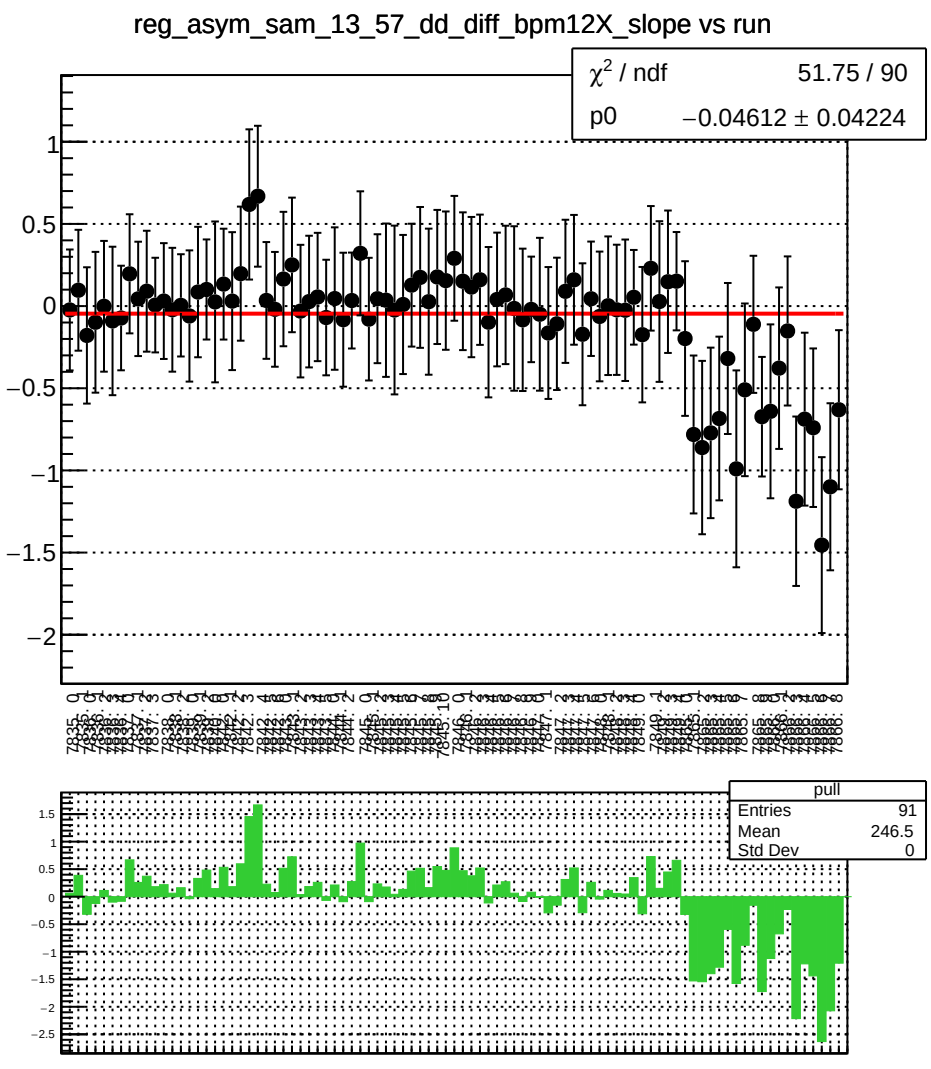

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 112.4 / 90
p0 −24.45 ± 1.001
pull
Entries 91
Mean 80.86
Std Dev 6.101
pull1D
Entries 91
Mean −0.4016
Std Dev 1.036

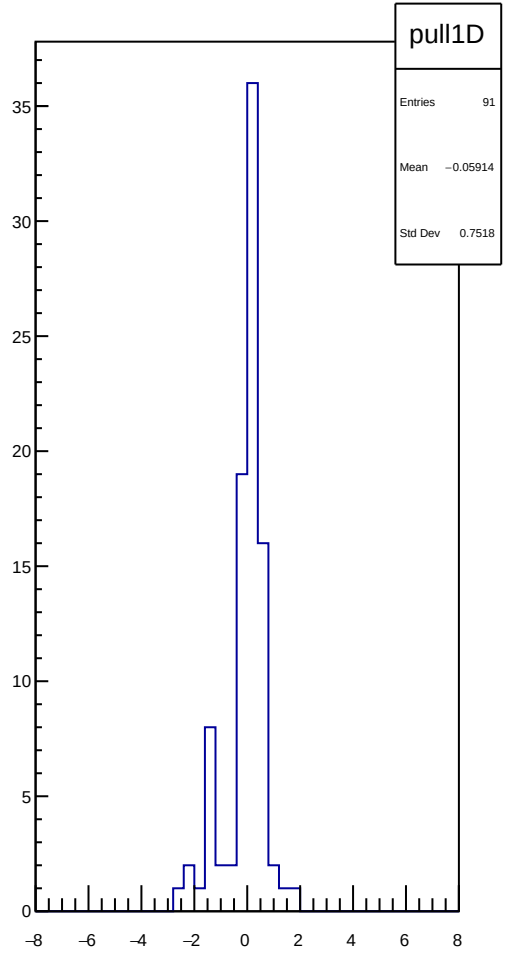

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.87 / 90
p0 −41.53 ± 1.199
pull
Entries 91
Mean −39.37
Std Dev 0
pull1D
Entries 91
Mean −0.05516
Std Dev 0.7232

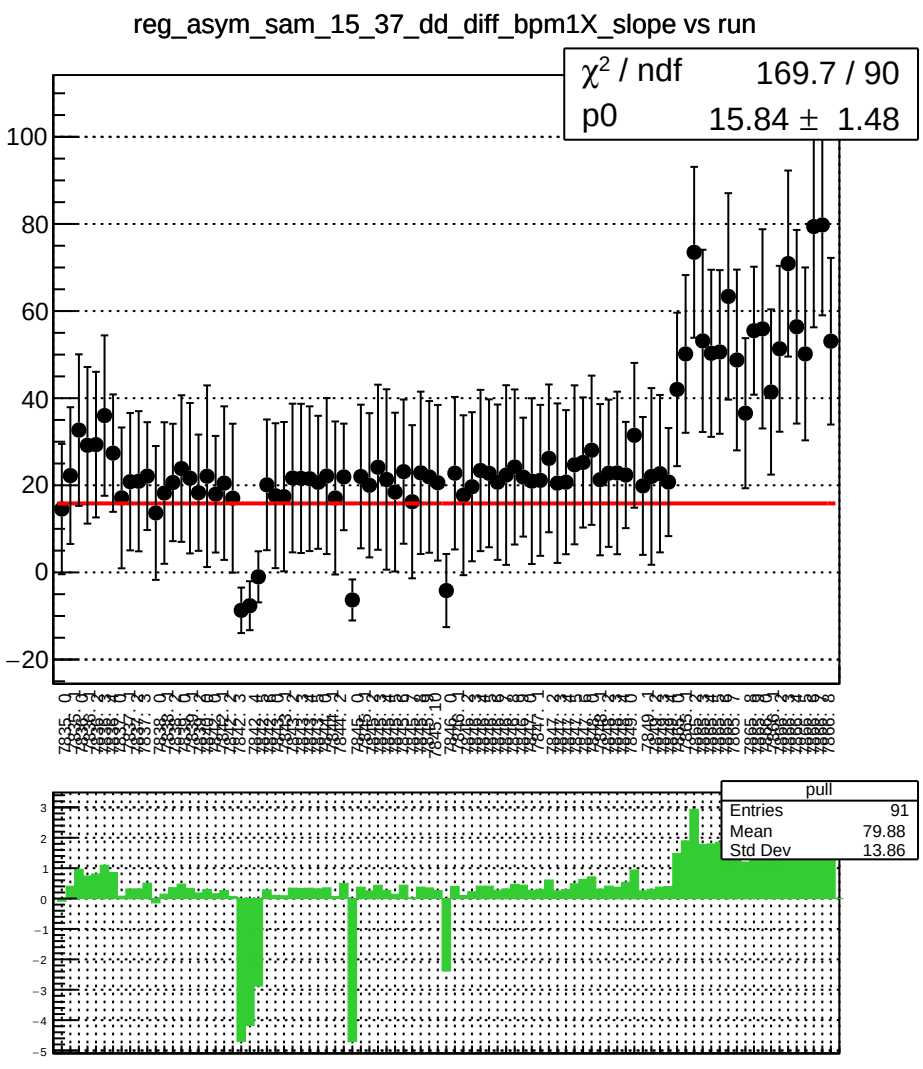

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.6 / 90
p0 −5.614 ± 0.8692
pull
Entries 91
Mean 74.79
Std Dev 18.33

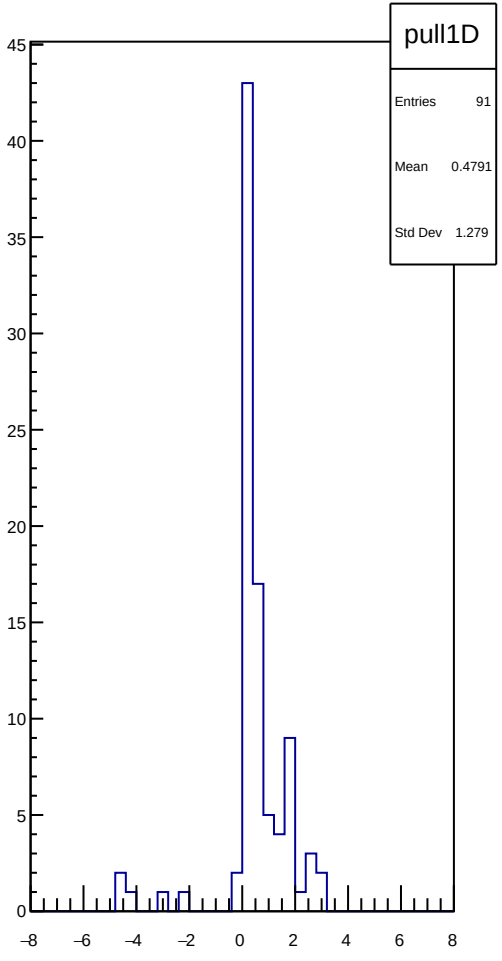

pull1D
Entries 91
Mean 0.4296
Std Dev 0.9711

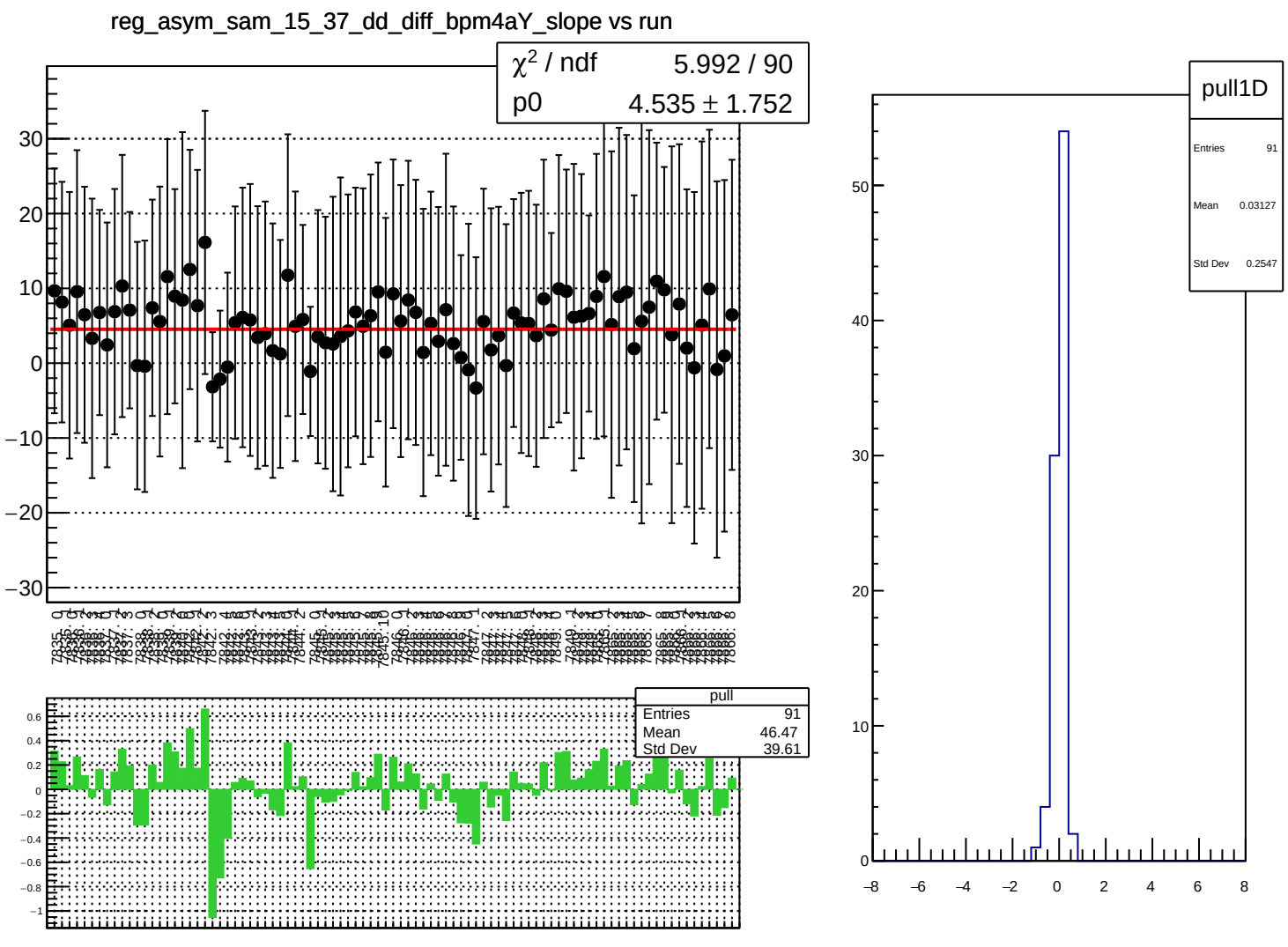

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.96 / 90
p0 0.8889 ± 1.396
pull
Entries 91
Mean 1131
Std Dev 0
pull1D
Entries 91
Mean −0.004978
Std Dev 0.6458

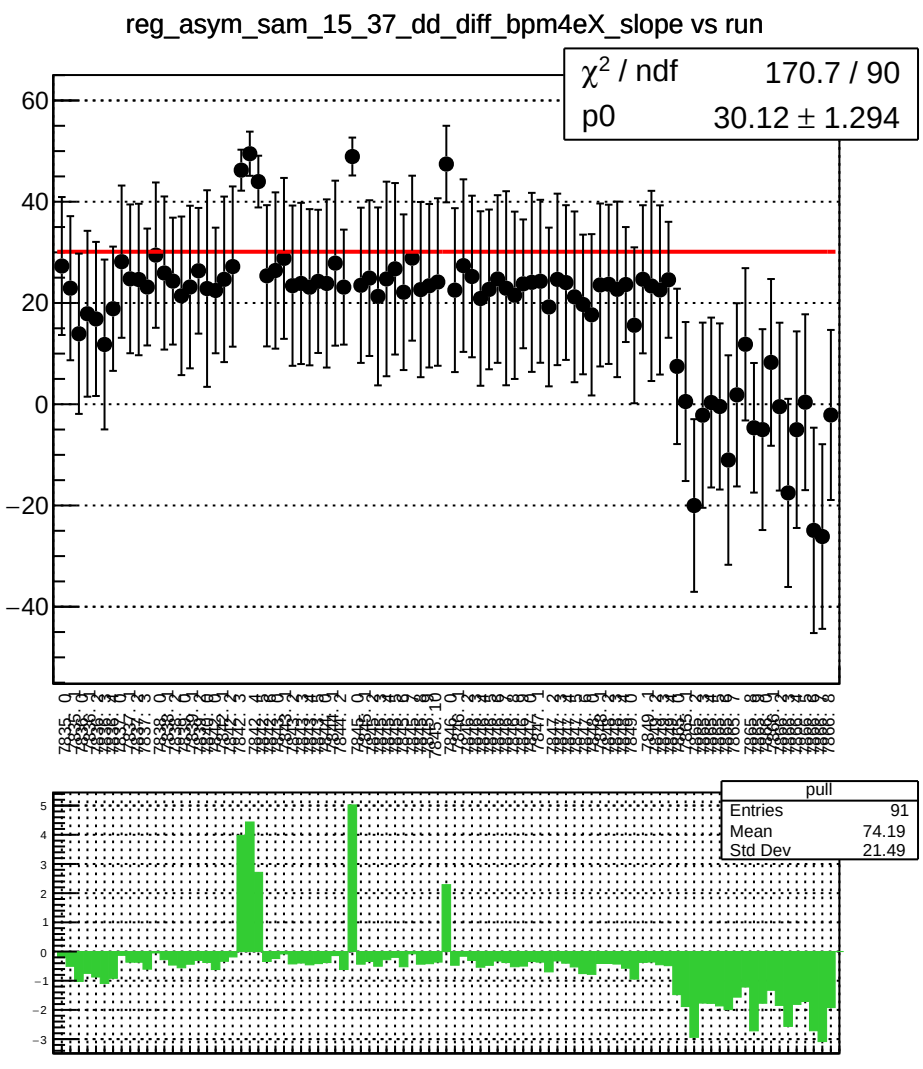

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 51.75 / 90
p0 −0.04612 ± 0.04224
pull
Entries 91
Mean 246.5
Std Dev 0

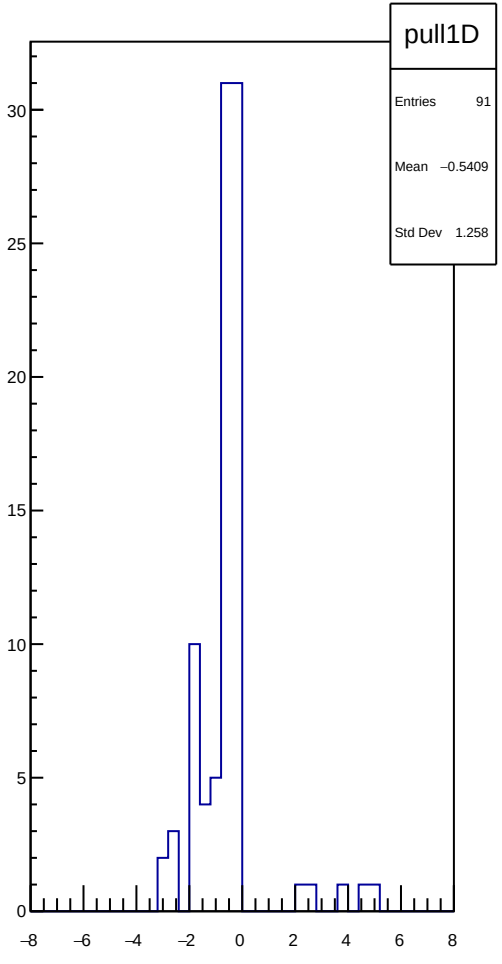

pull1D
Entries 91
Mean −0.05914
Std Dev 0.7518

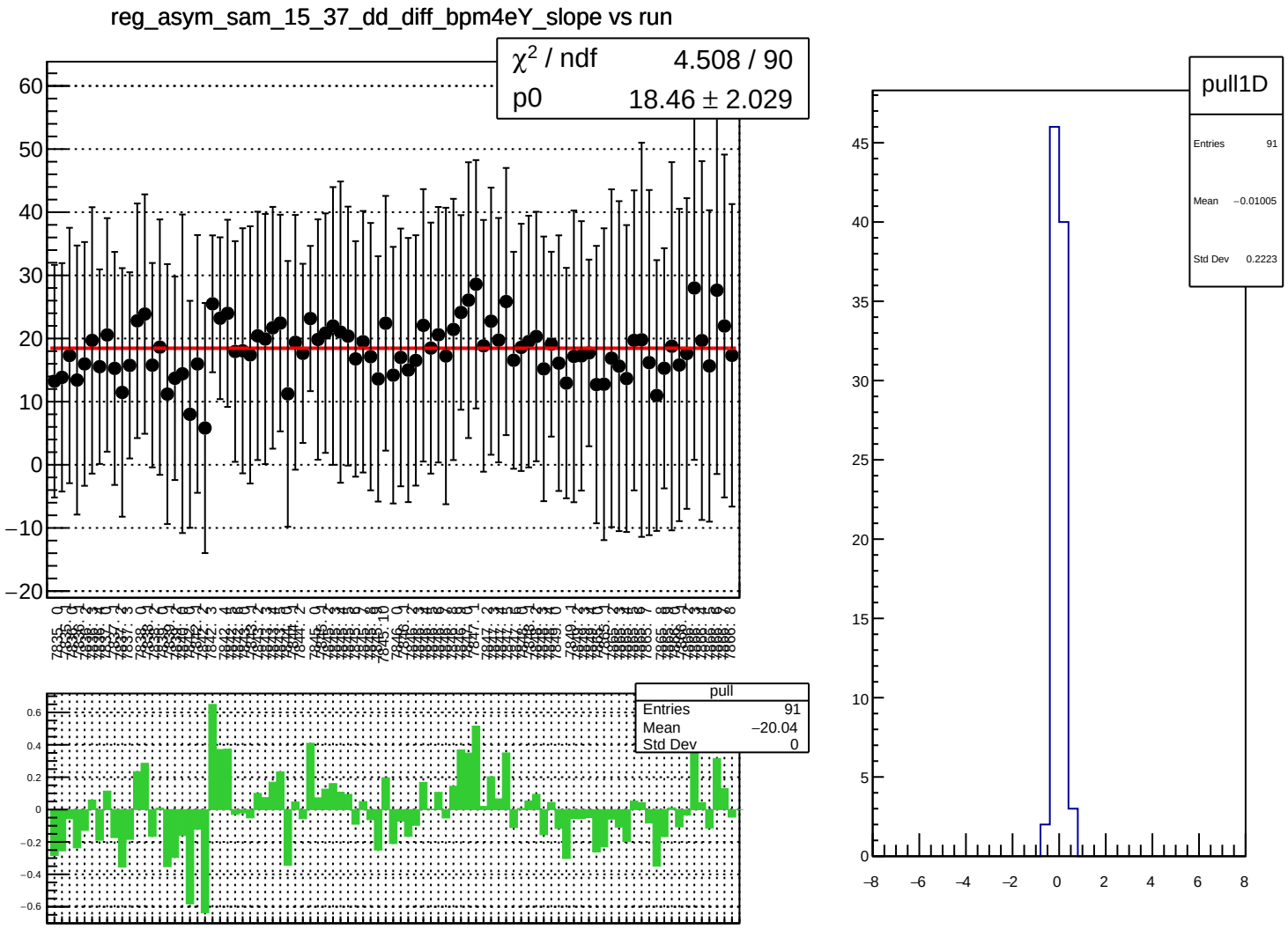

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 169.7 / 90
p0 15.84 ± 1.48
pull
Entries 91
Mean 79.88
Std Dev 13.86

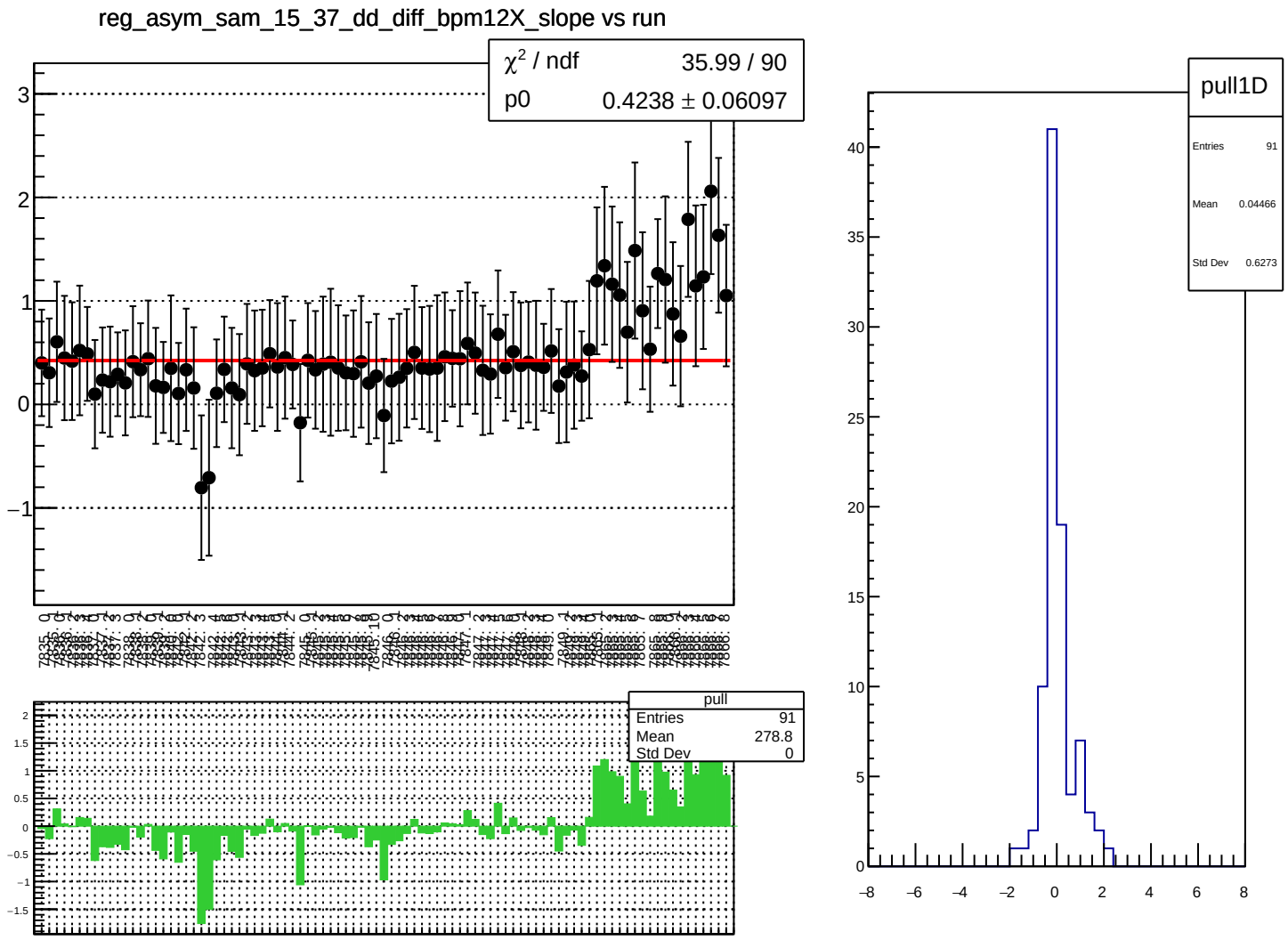

pull1D
Entries 91
Mean 0.4791
Std Dev 1.279

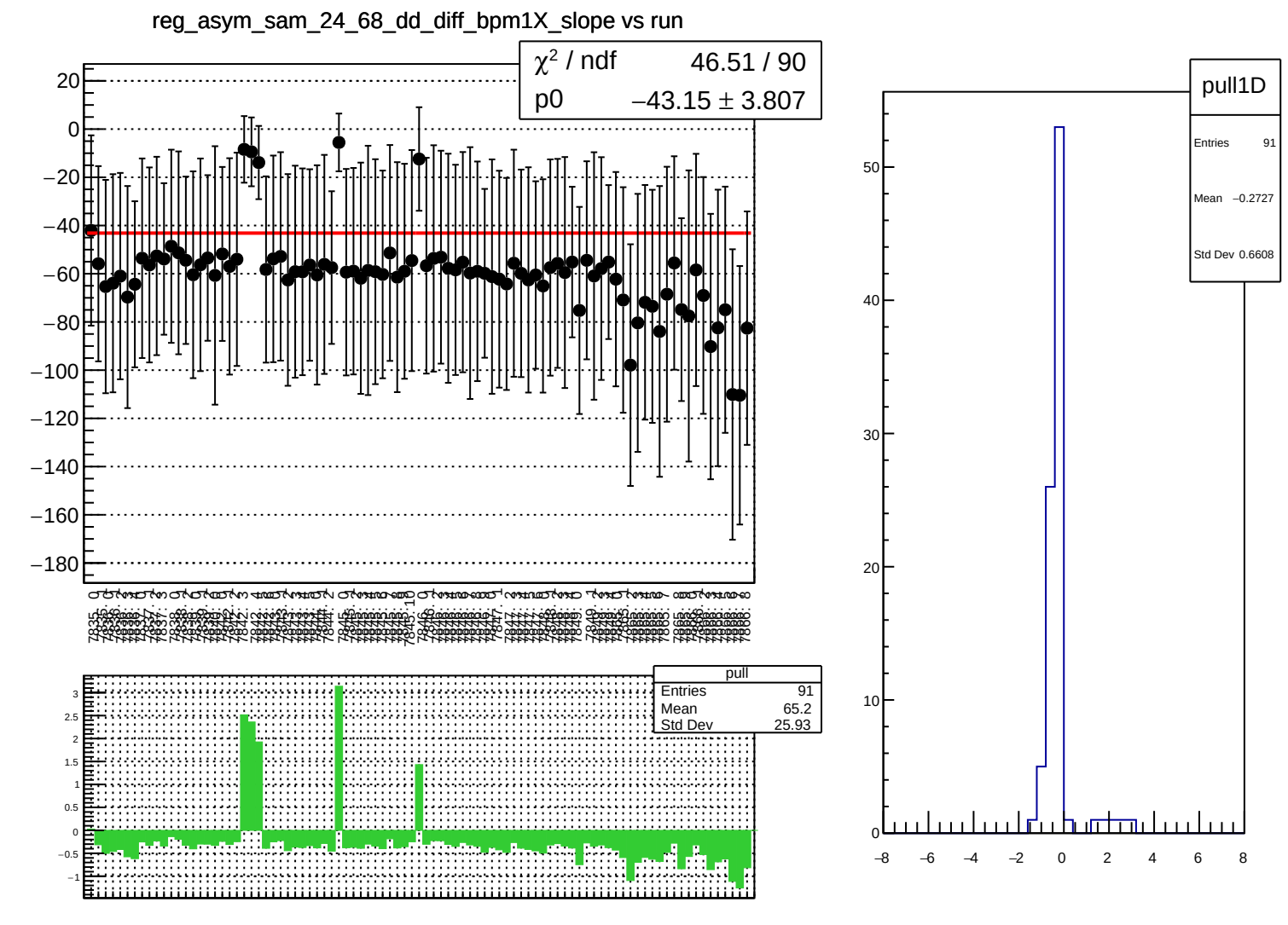

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.992 / 90
p0 4.535 ± 1.752
pull
Entries 91
Mean 46.47
Std Dev 39.61
pull1D
Entries 91
Mean 0.03127
Std Dev 0.2547

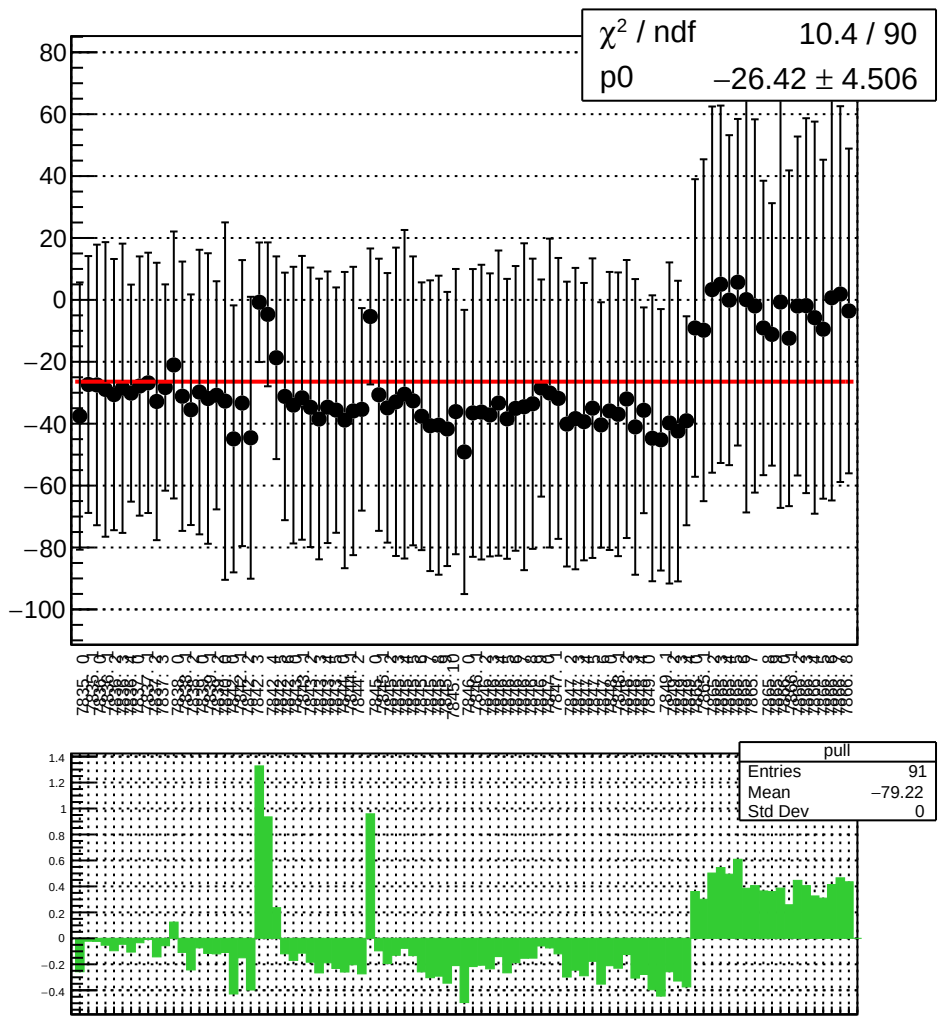

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 170.7 / 90
p0 30.12 ± 1.294
pull
Entries 91
Mean 74.19
Std Dev 21.49

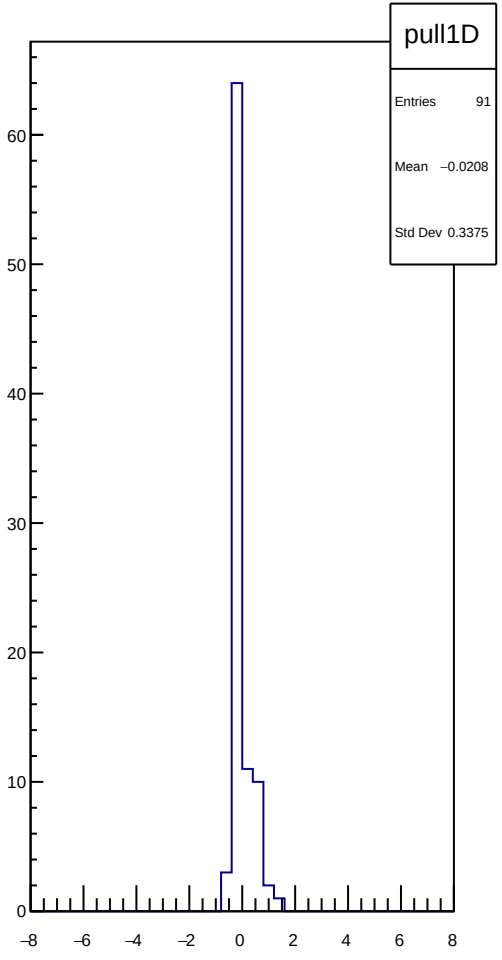

pull1D
Entries 91
Mean −0.5409
Std Dev 1.258

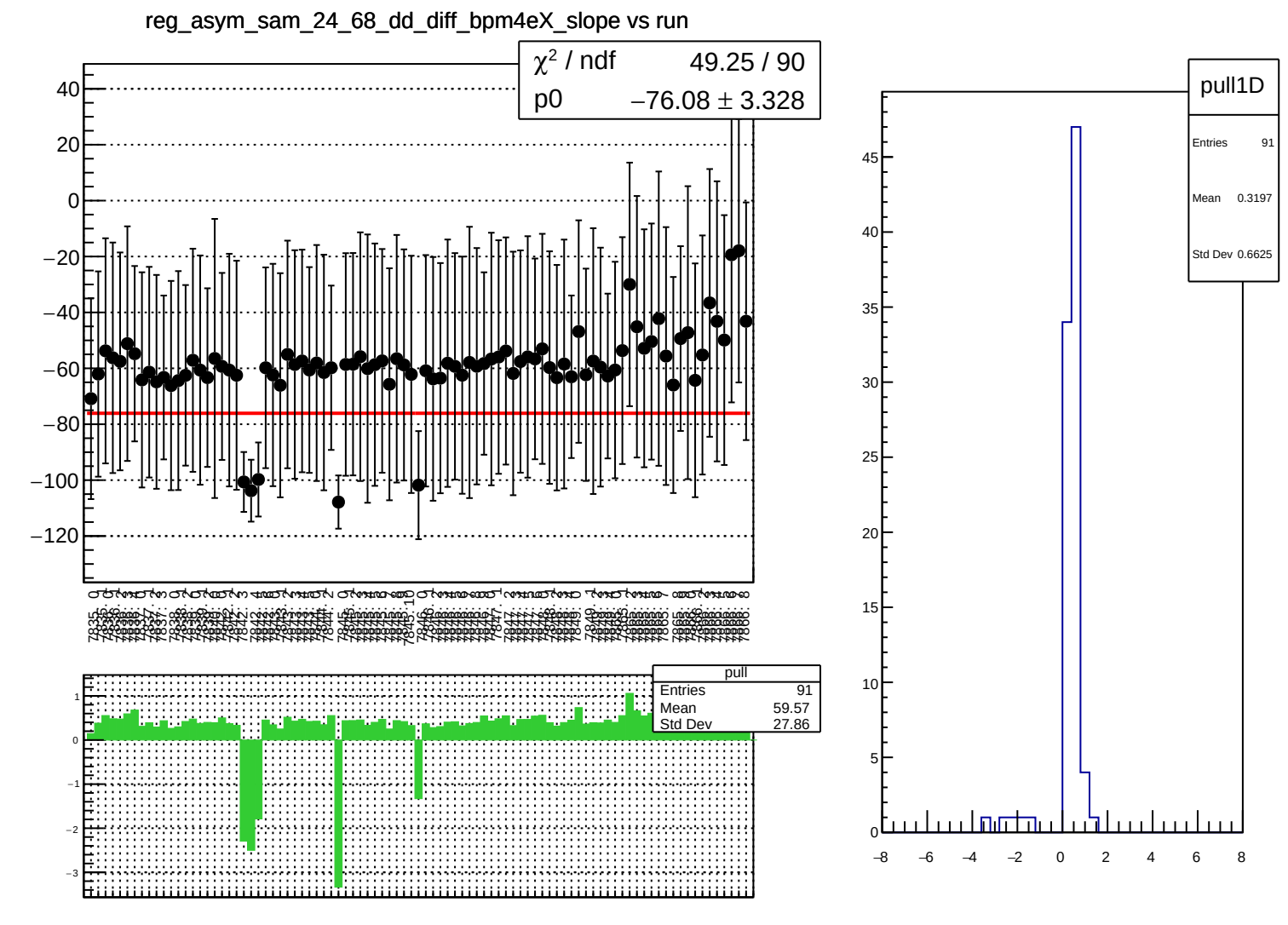

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.508 / 90
p0 18.46 ± 2.029
pull
Entries 91
Mean −20.04
Std Dev 0
pull1D
Entries 91
Mean −0.01005
Std Dev 0.2223

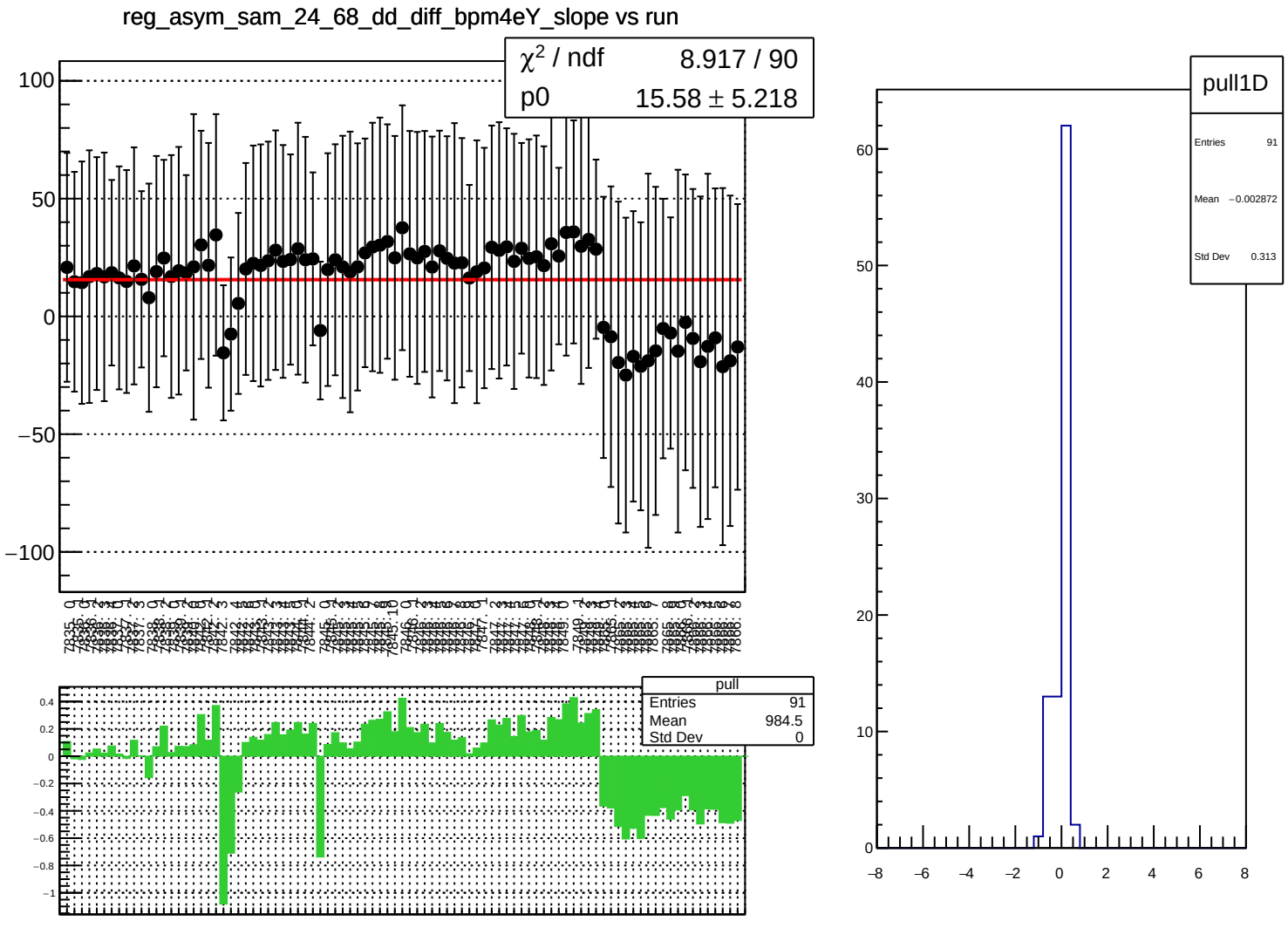

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 35.99 / 90
p0 0.4238 ± 0.06097
pull
Entries 91
Mean 278.8
Std Dev 0
pull1D
Entries 91
Mean 0.04466
Std Dev 0.6273

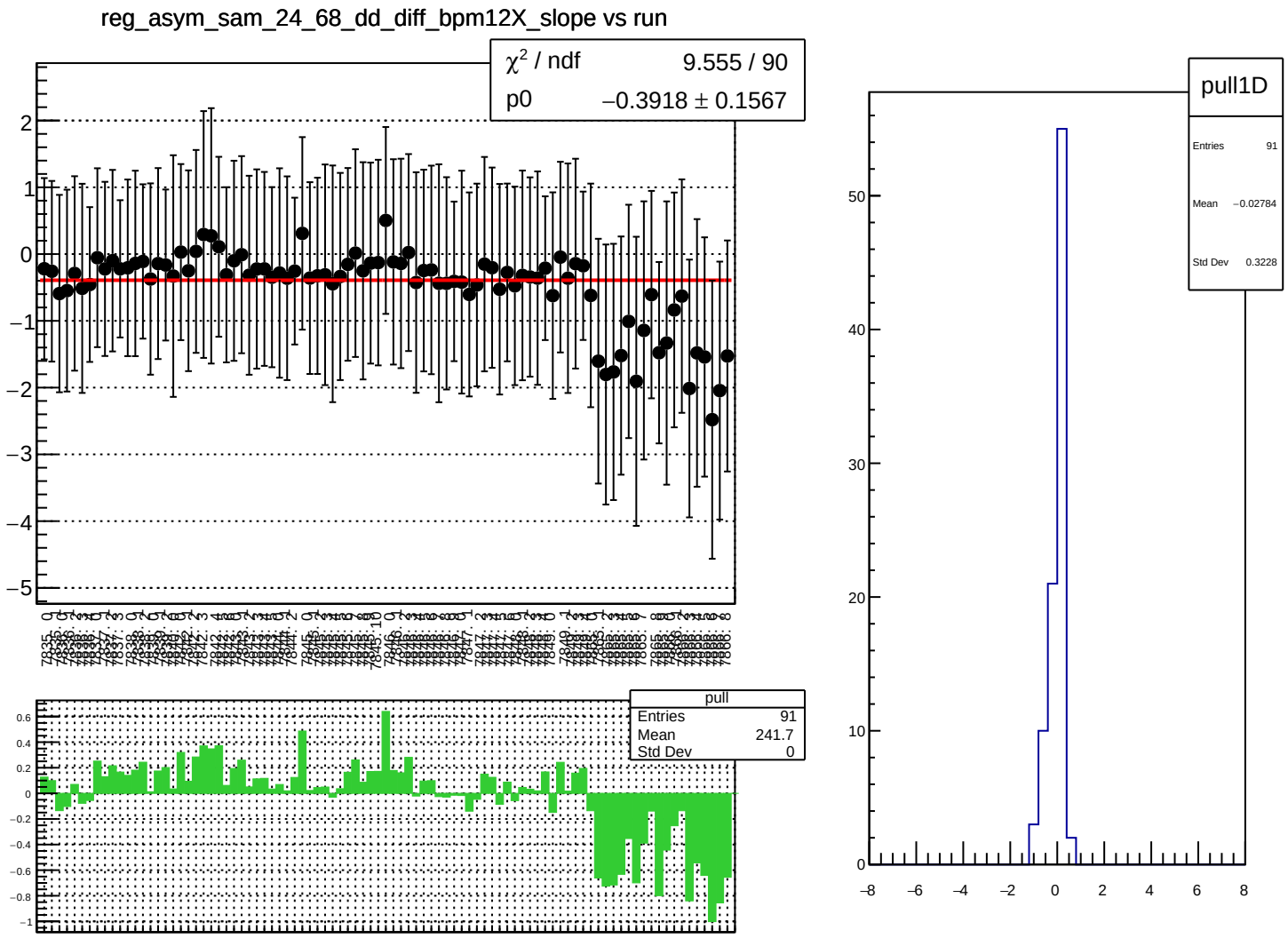

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 46.51 / 90
p0 −43.15 ± 3.807
pull
Entries 91
Mean 65.2
Std Dev 25.93
pull1D
Entries 91
Mean −0.2727
Std Dev 0.6608

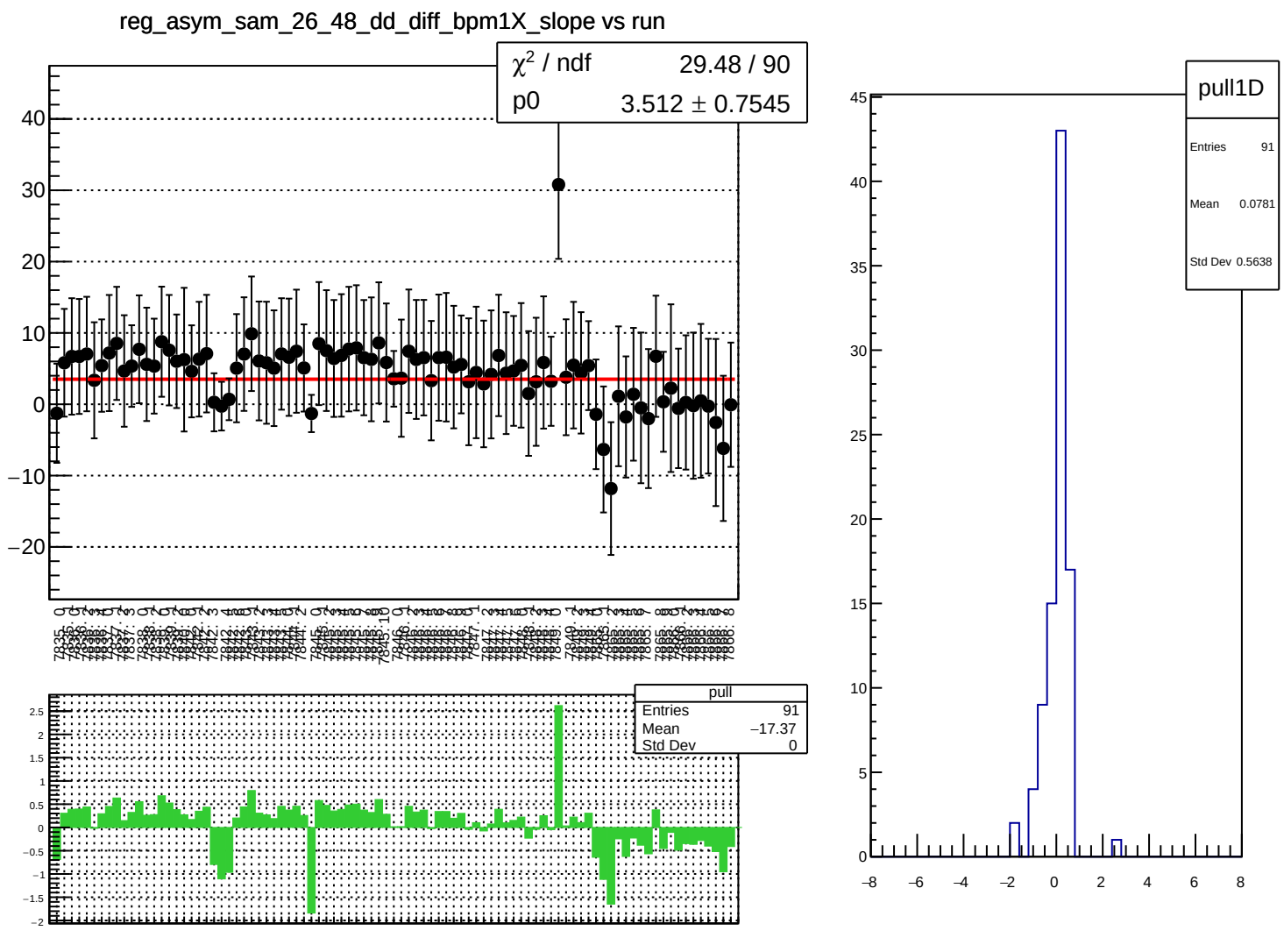

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.4 / 90
p0 −26.42 ± 4.506
pull
Entries 91
Mean −79.22
Std Dev 0

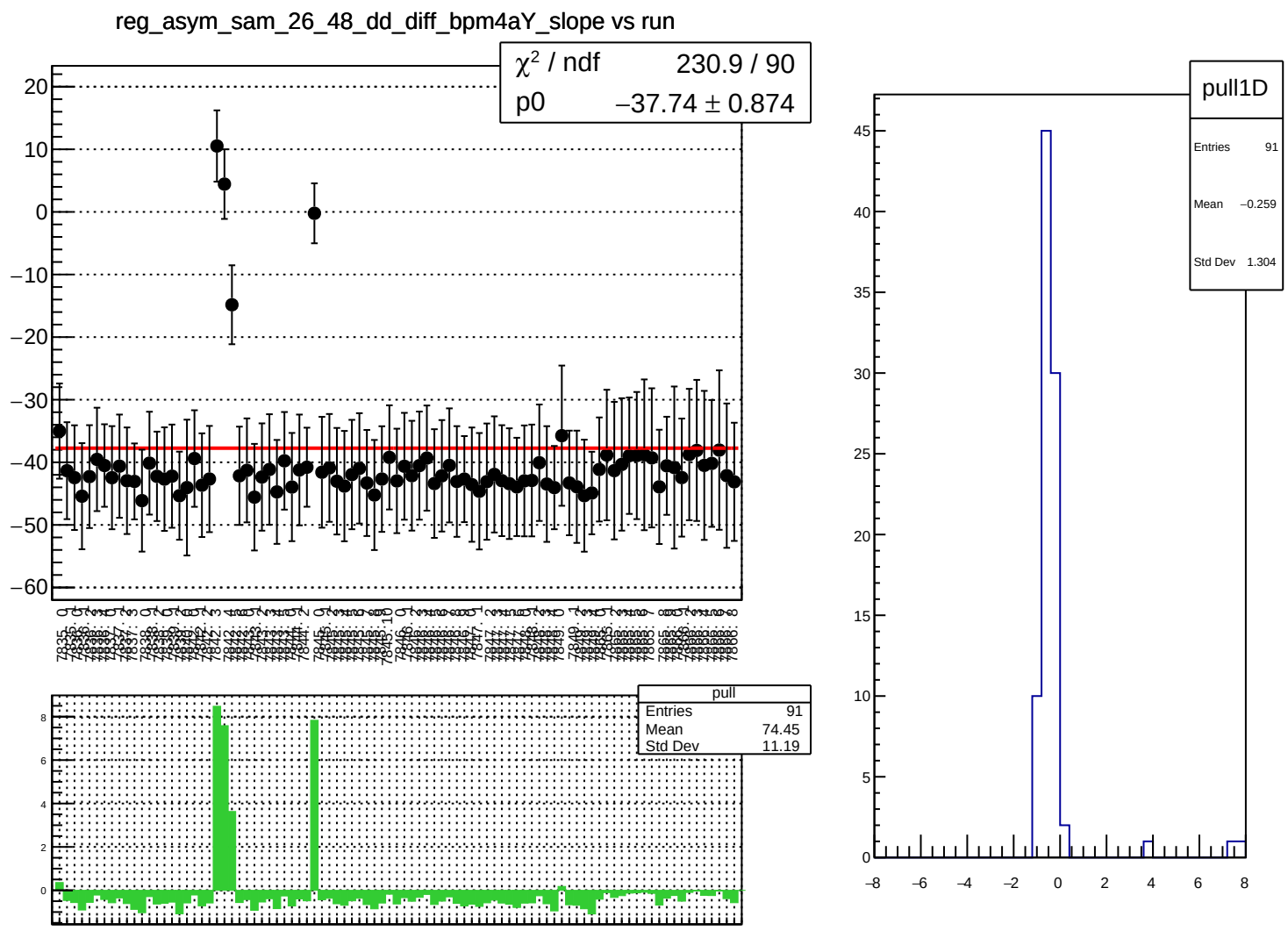

pull1D
Entries 91
Mean −0.0208
Std Dev 0.3375

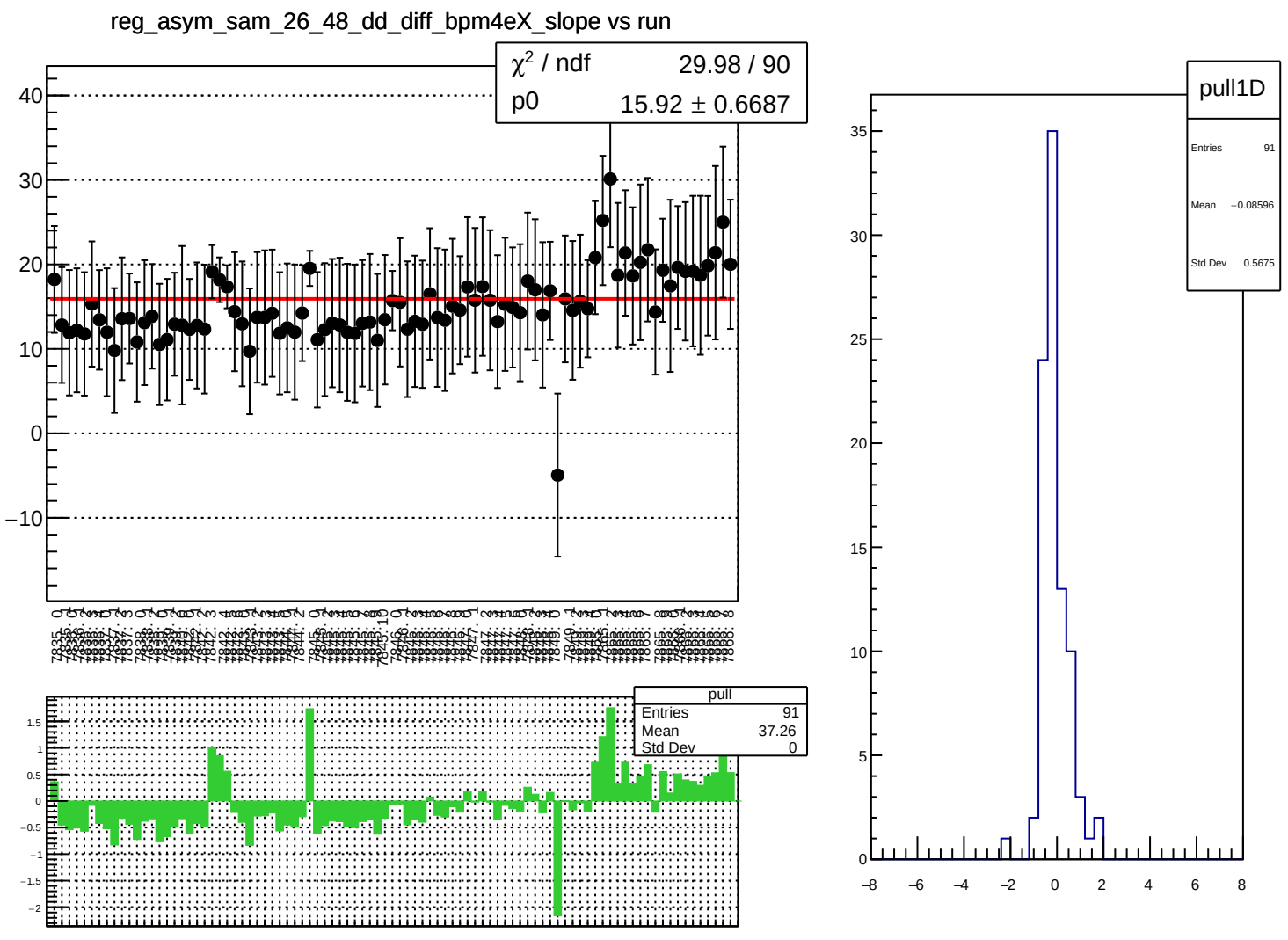

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.25 / 90
p0 −76.08 ± 3.328
pull
Entries 91
Mean 59.57
Std Dev 27.86
pull1D
Entries 91
Mean 0.3197
Std Dev 0.6625

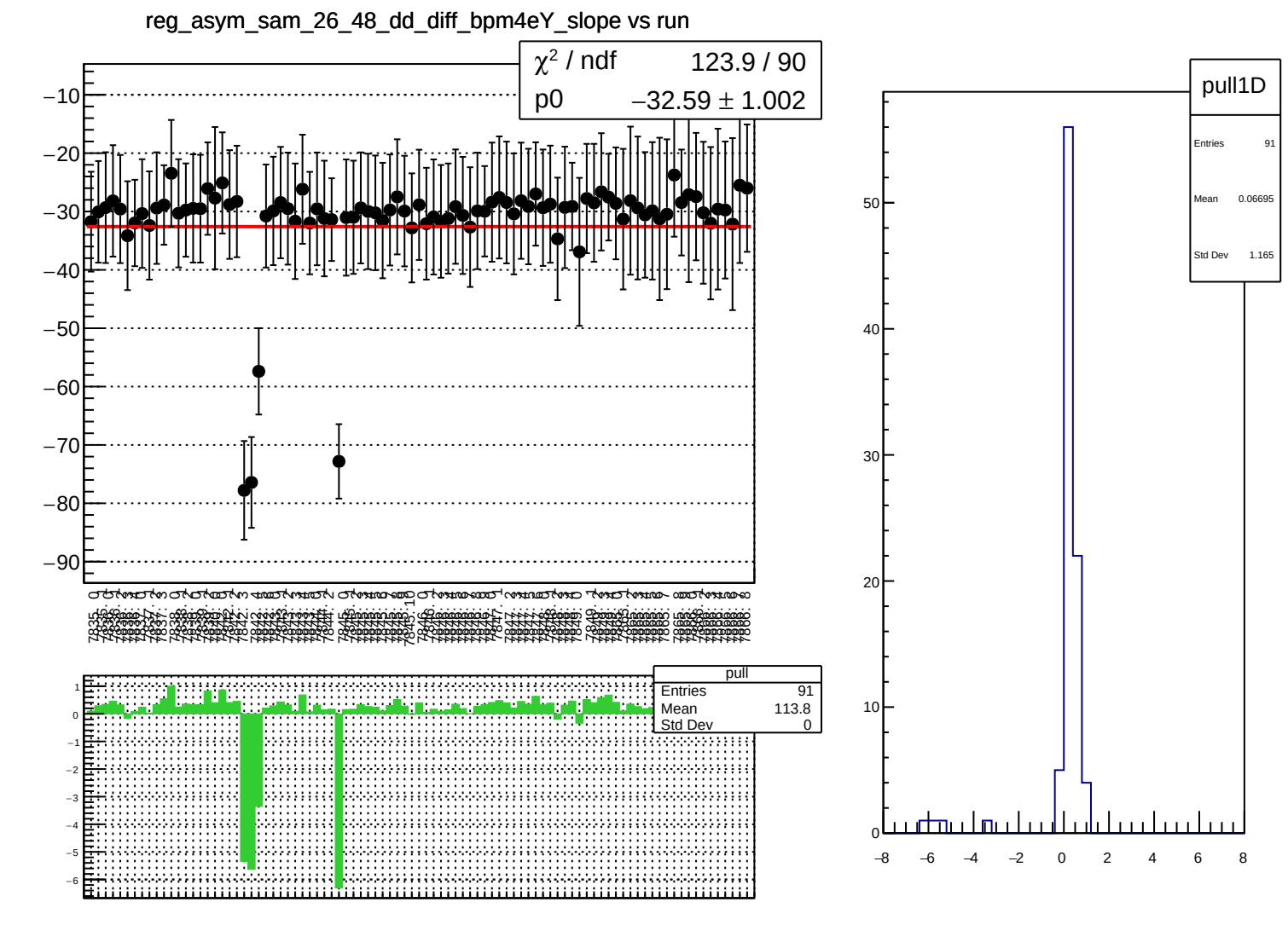

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.917 / 90
p0 15.58 ± 5.218
pull
Entries 91
Mean 984.5
Std Dev 0
pull1D
Entries 91
Mean −0.002872
Std Dev 0.313

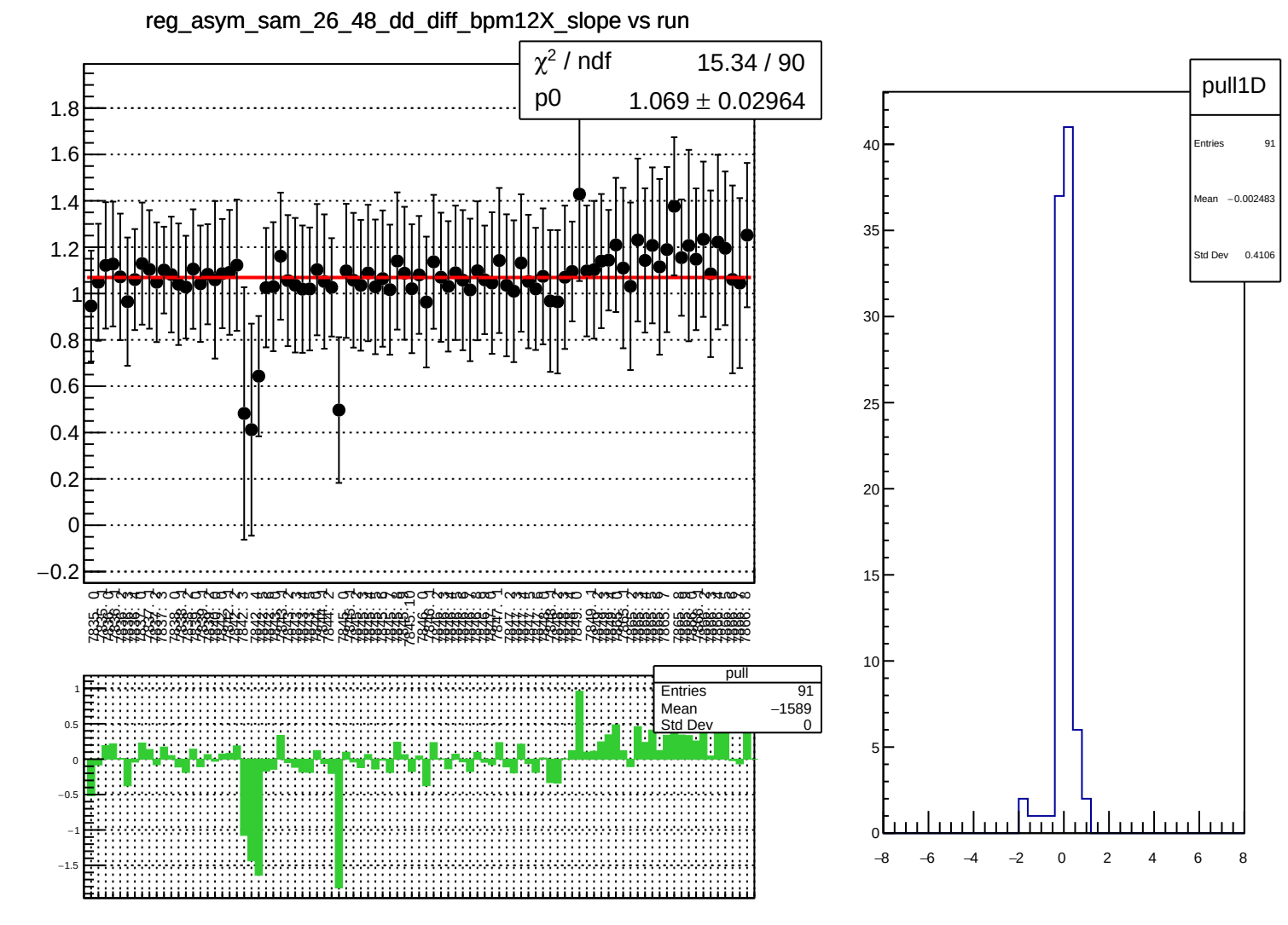

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 9.555 / 90
p0 −0.3918 ± 0.1567
pull
Entries 91
Mean 241.7
Std Dev 0
pull1D
Entries 91
Mean −0.02784
Std Dev 0.3228

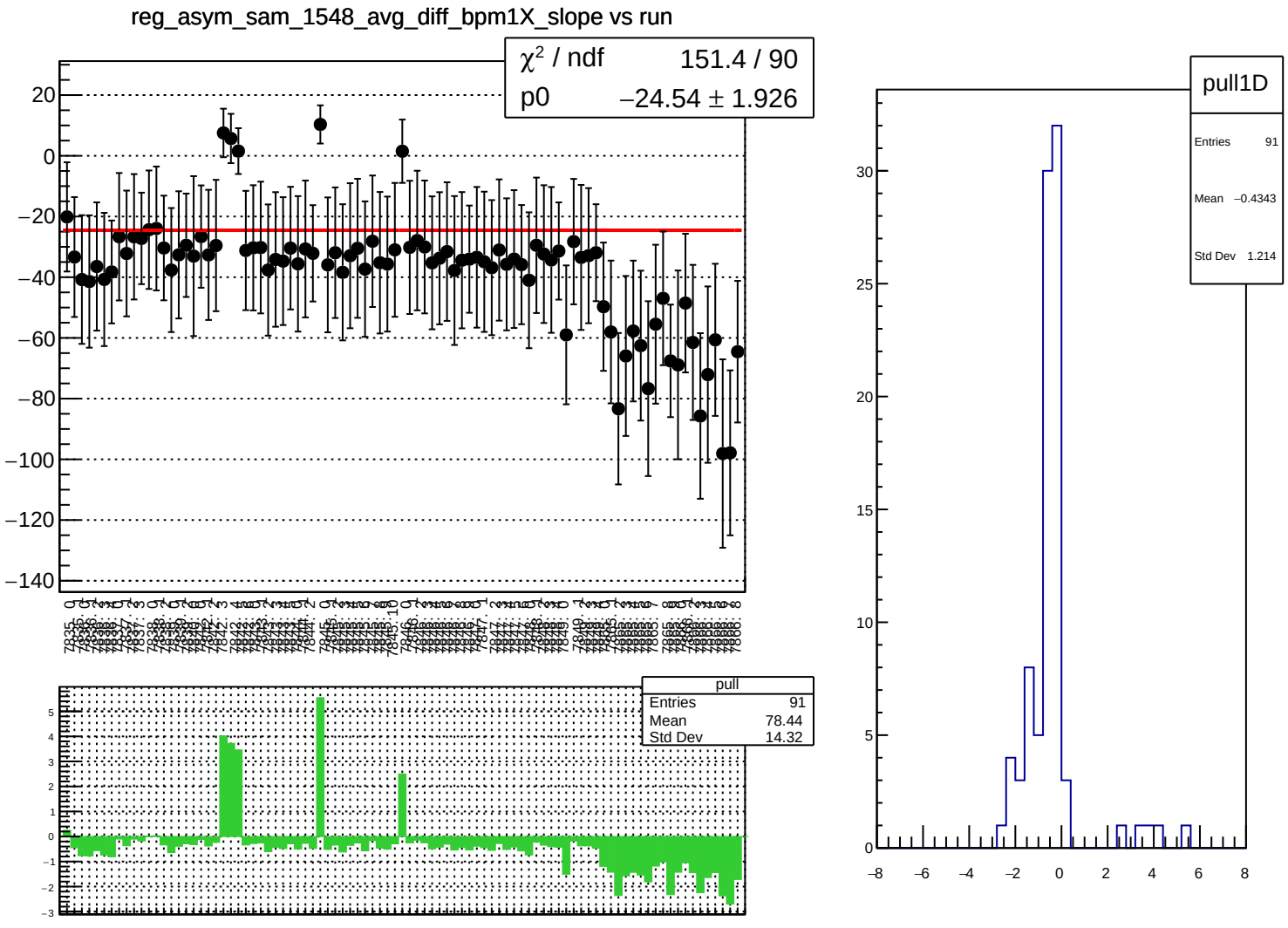

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 29.48 / 90
p0 3.512 ± 0.7545
pull
Entries 91
Mean −17.37
Std Dev 0
pull1D
Entries 91
Mean 0.0781
Std Dev 0.5638

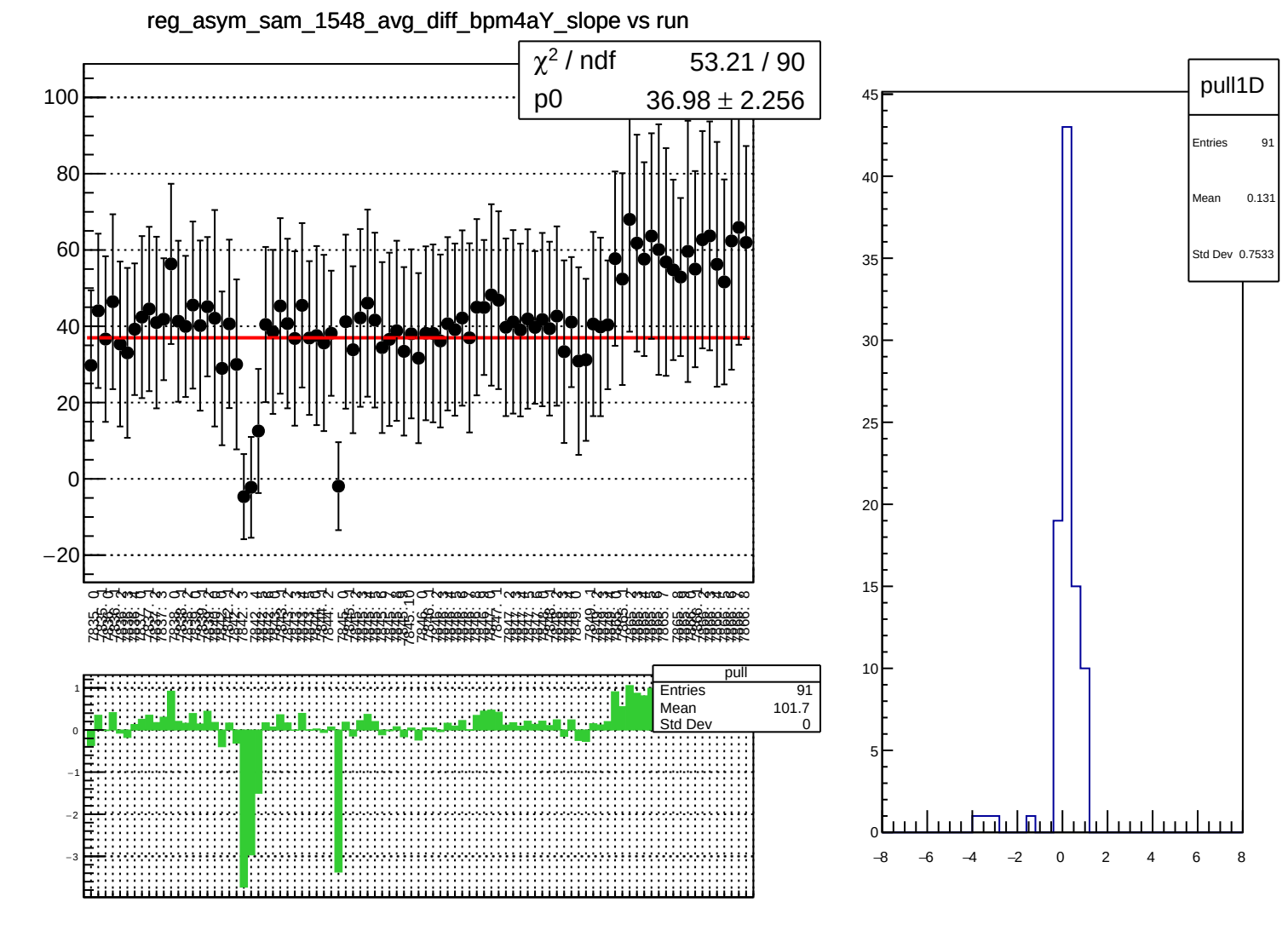

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 230.9 / 90
p0 −37.74 ± 0.874
pull
Entries 91
Mean 74.45
Std Dev 11.19
pull1D
Entries 91
Mean −0.259
Std Dev 1.304

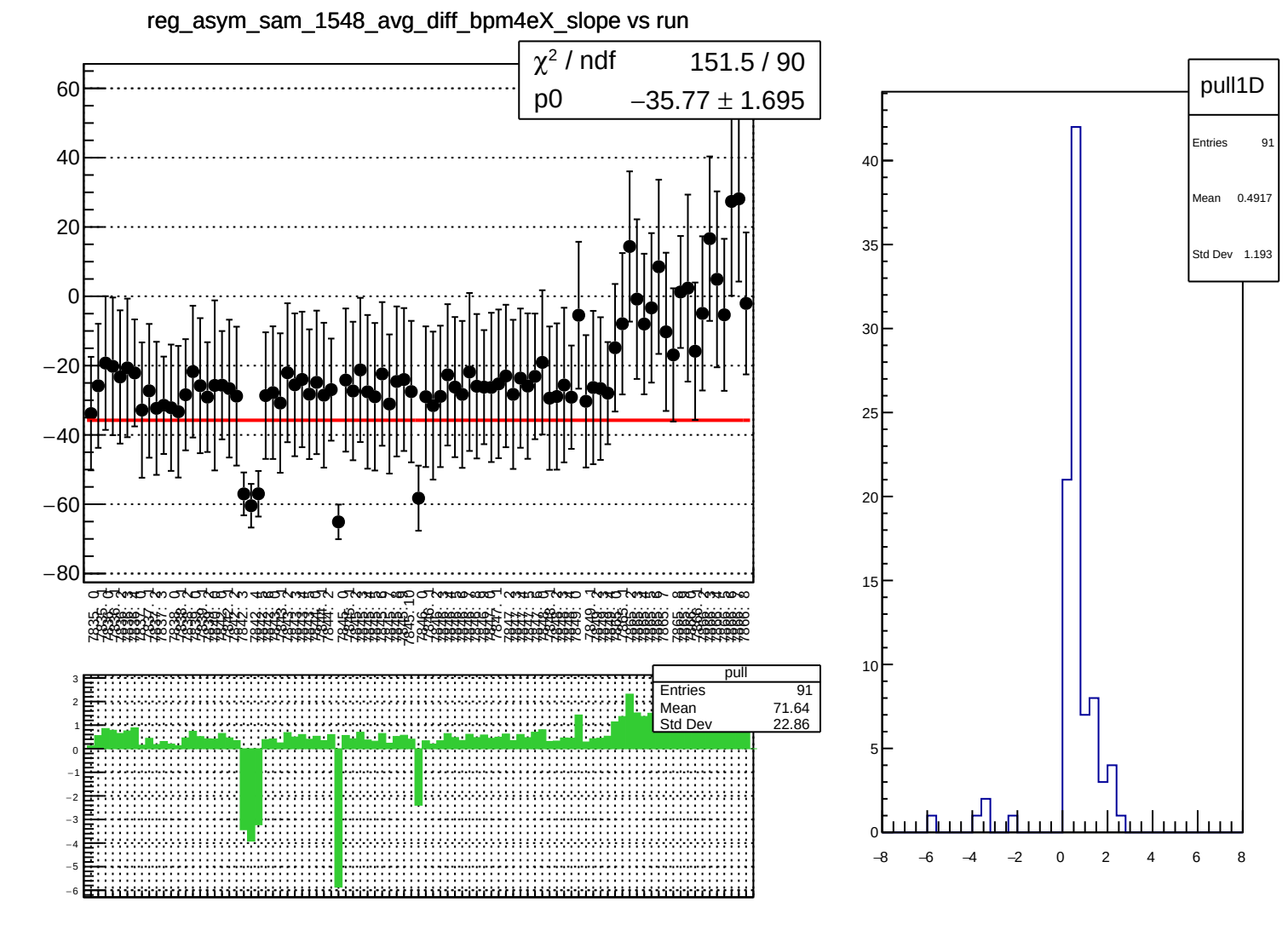

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.98 / 90
p0 15.92 ± 0.6687
pull
Entries 91
Mean −37.26
Std Dev 0
pull1D
Entries 91
Mean −0.08596
Std Dev 0.5675

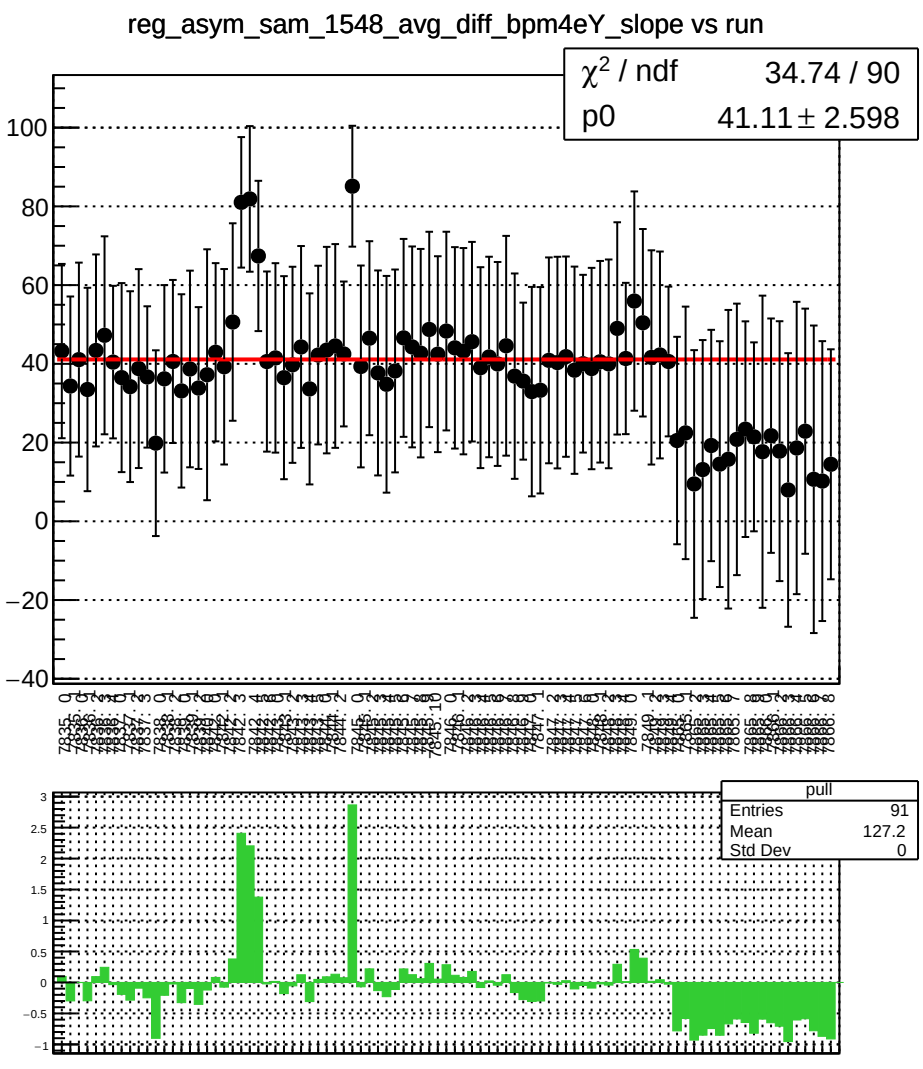

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 123.9 / 90
p0 −32.59 ± 1.002
pull
Entries 91
Mean 113.8
Std Dev 0
pull1D
Entries 91
Mean 0.06695
Std Dev 1.165

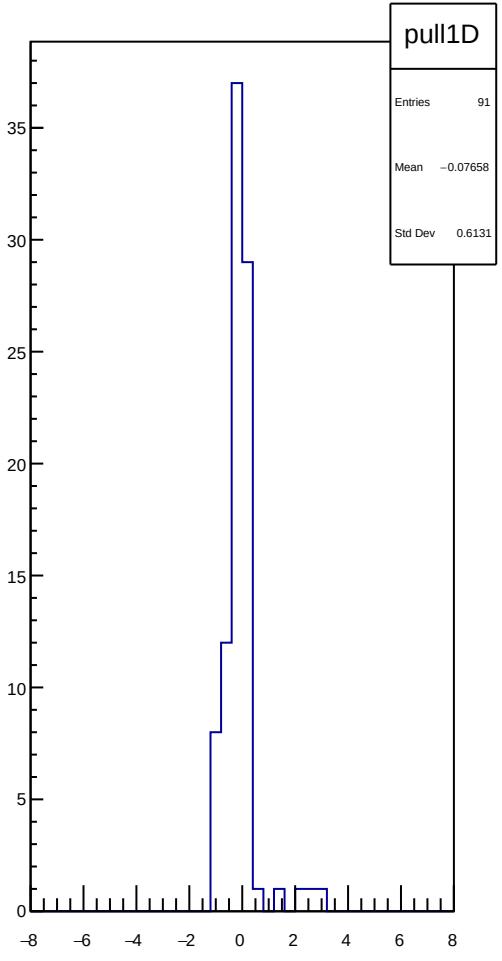

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.34 / 90
p0 1.069 ± 0.02964
pull
Entries 91
Mean −1589
Std Dev 0
pull1D
Entries 91
Mean −0.002483
Std Dev 0.4106

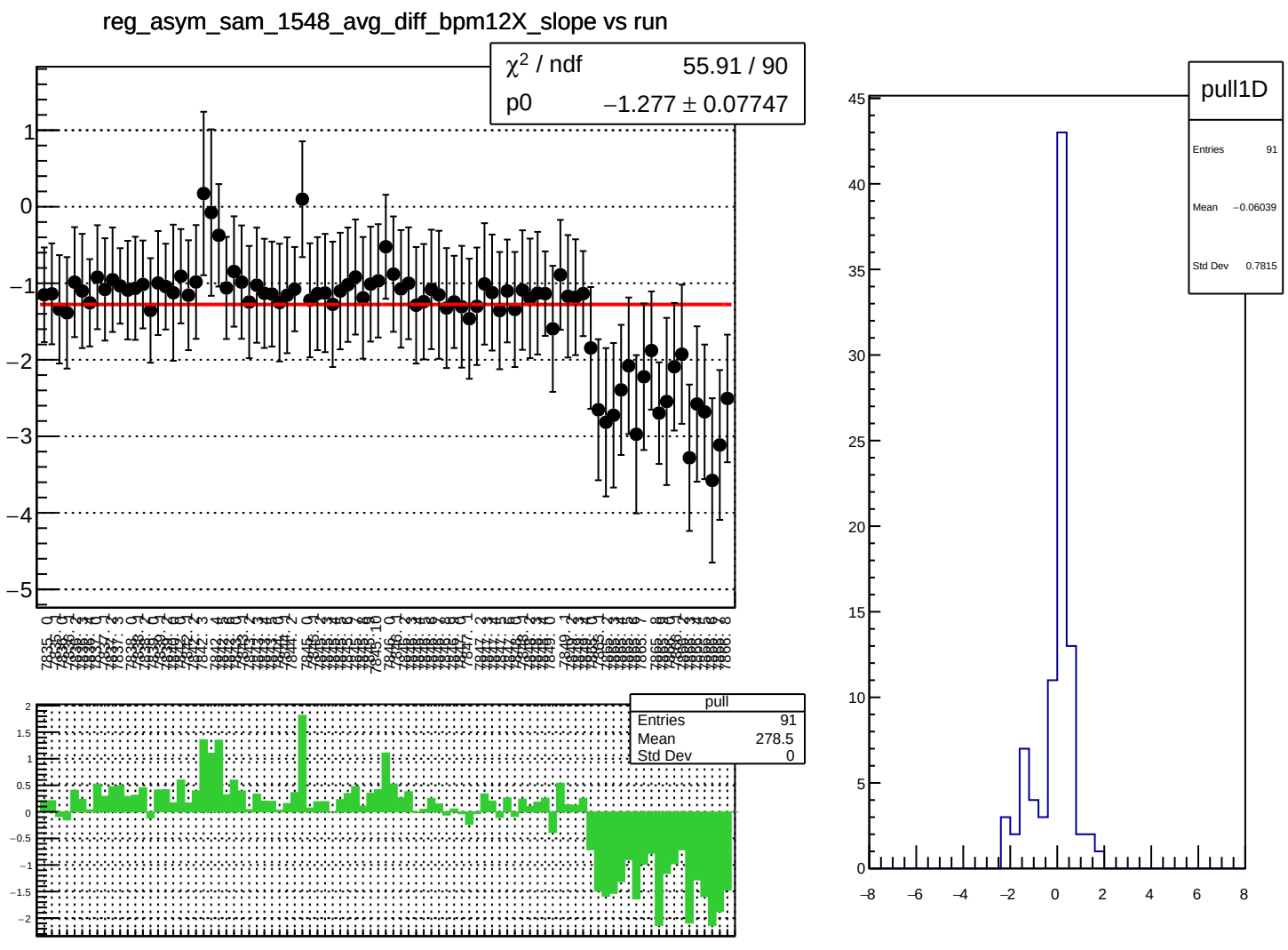

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 151.4 / 90
p0 −24.54 ± 1.926
pull
Entries 91
Mean 78.44
Std Dev 14.32
pull1D
Entries 91
Mean −0.4343
Std Dev 1.214

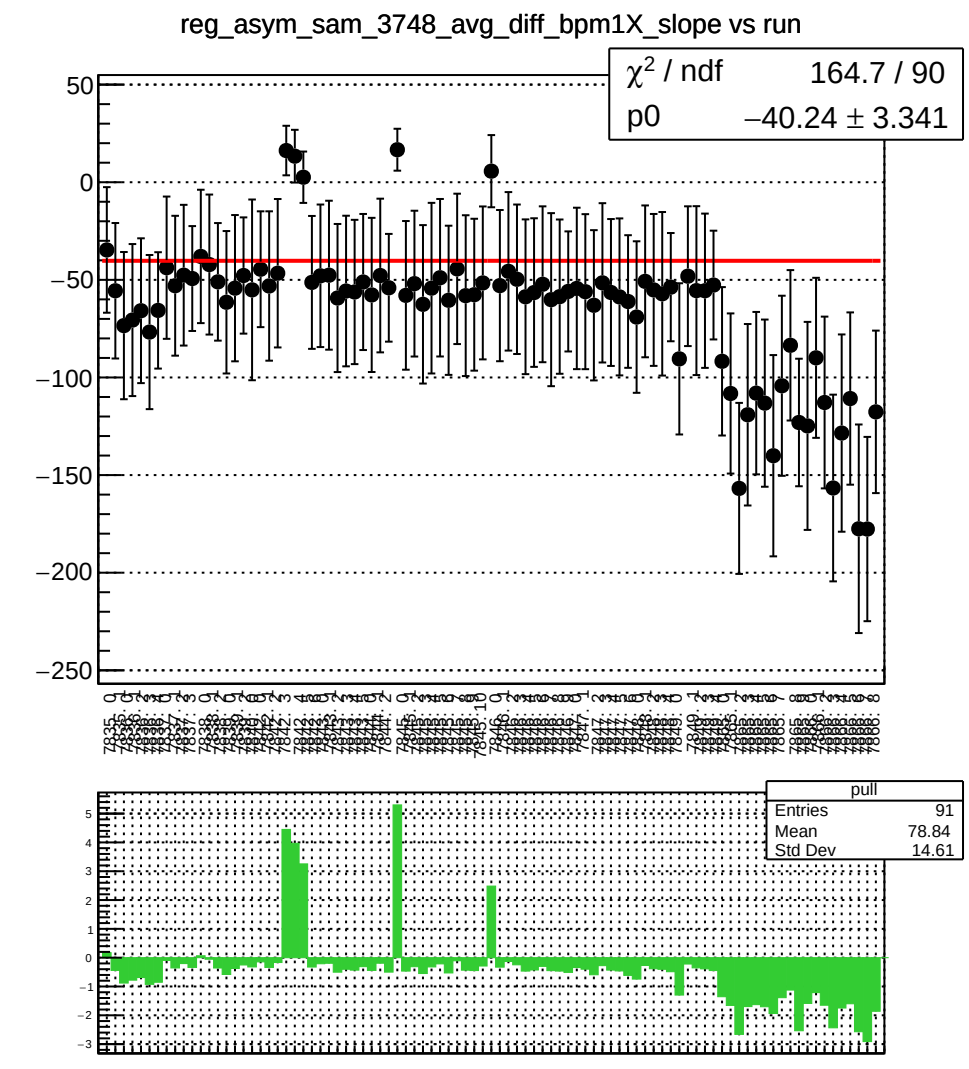

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.21 / 90
p0 36.98 ± 2.256
pull
Entries 91
Mean 101.7
Std Dev 0
pull1D
Entries 91
Mean 0.131
Std Dev 0.7533

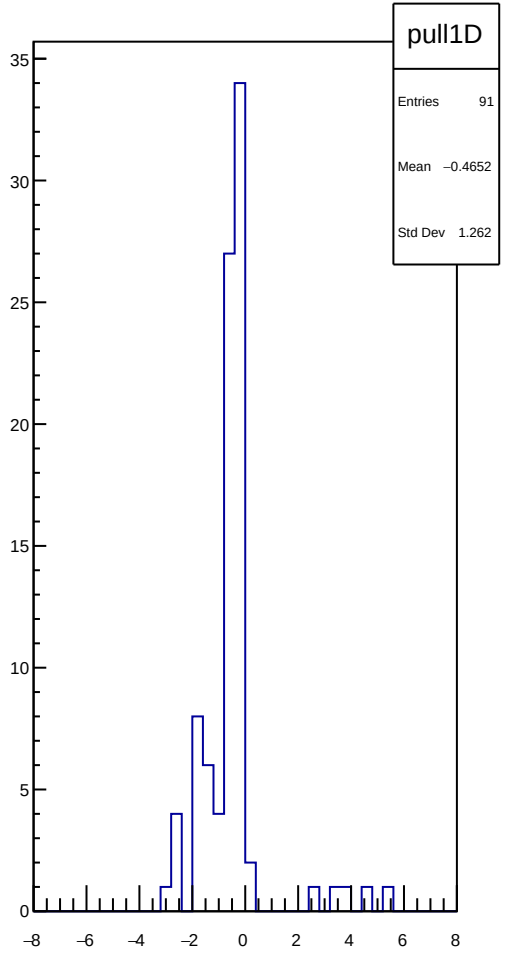

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 151.5 / 90
p0 −35.77 ± 1.695
pull
Entries 91
Mean 71.64
Std Dev 22.86
pull1D
Entries 91
Mean 0.4917
Std Dev 1.193

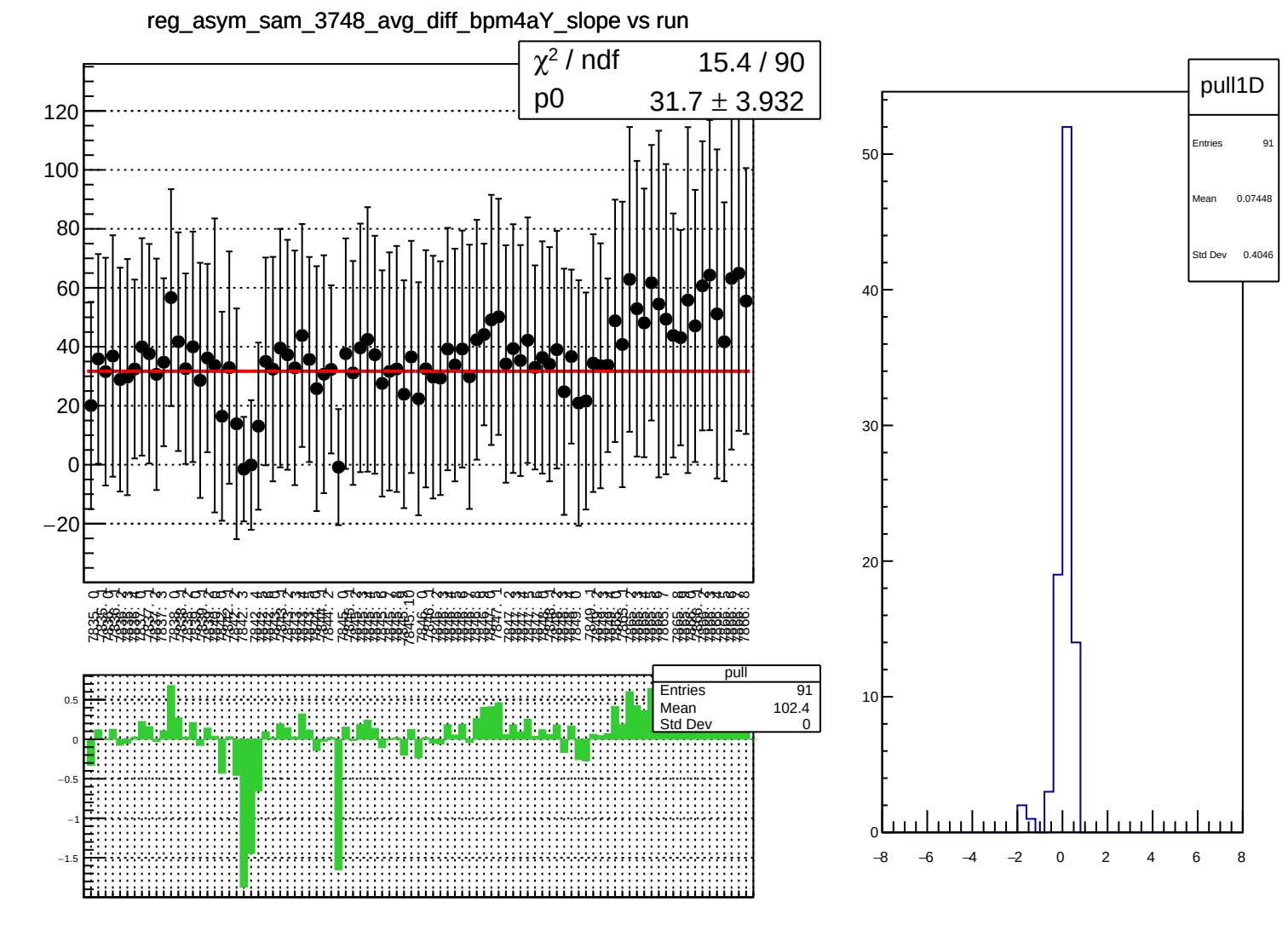

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.74 / 90
p0 41.11 ± 2.598
pull
Entries 91
Mean 127.2
Std Dev 0

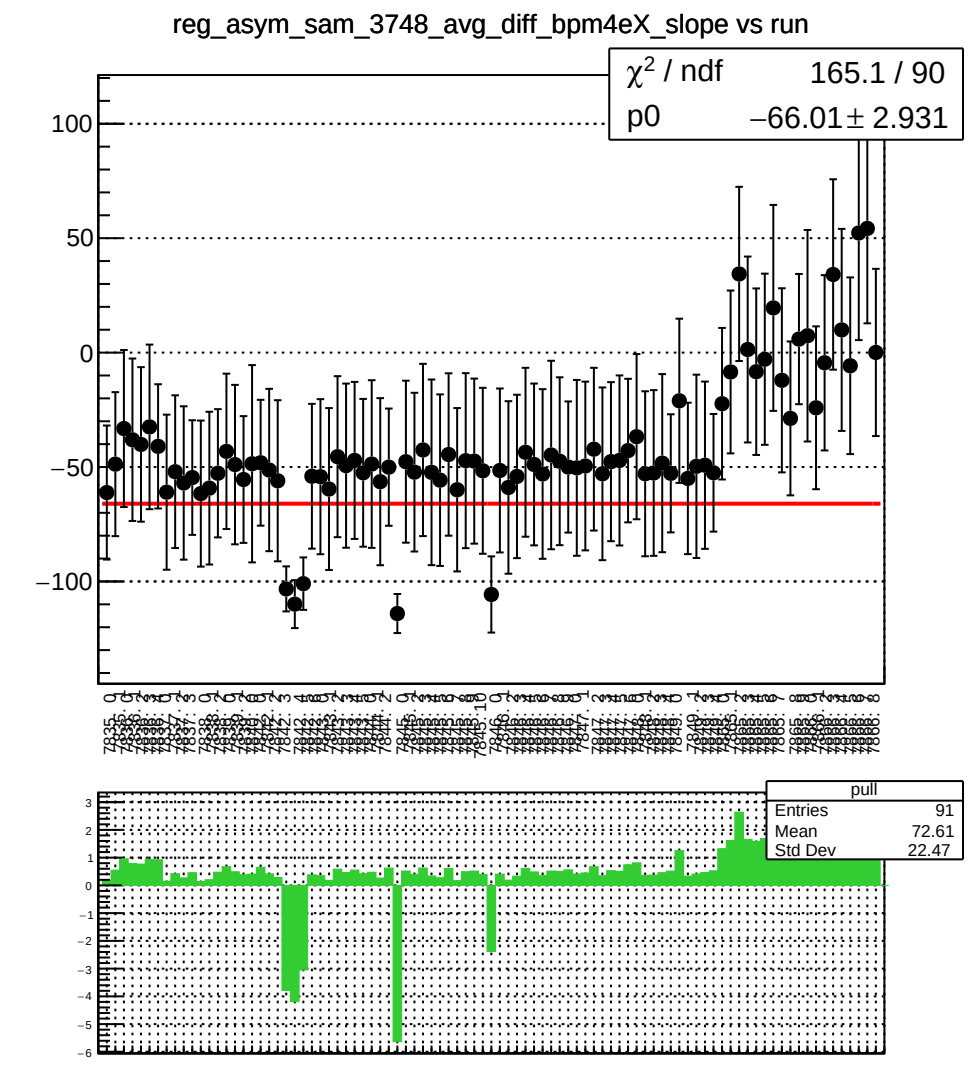

pull1D
Entries 91
Mean −0.07658
Std Dev 0.6131

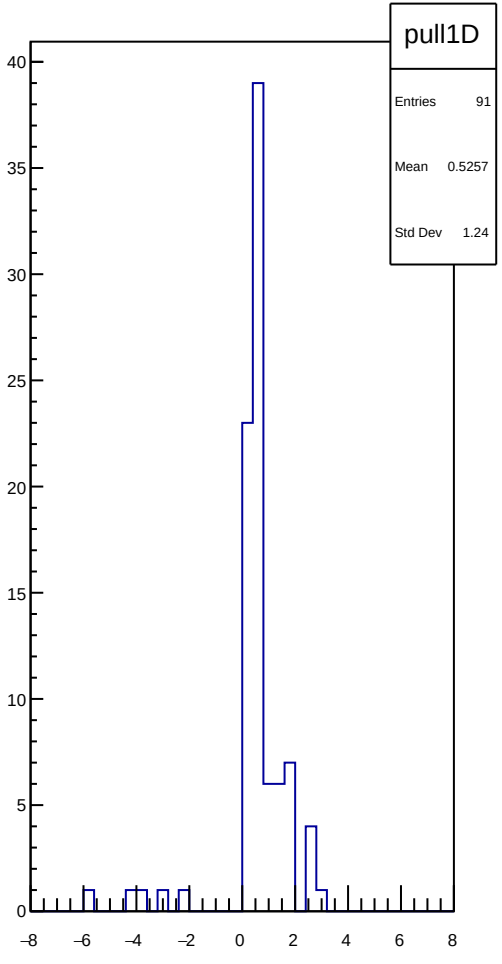

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 55.91 / 90
p0 −1.277 ± 0.07747
pull
Entries 91
Mean 278.5
Std Dev 0
pull1D
Entries 91
Mean −0.06039
Std Dev 0.7815

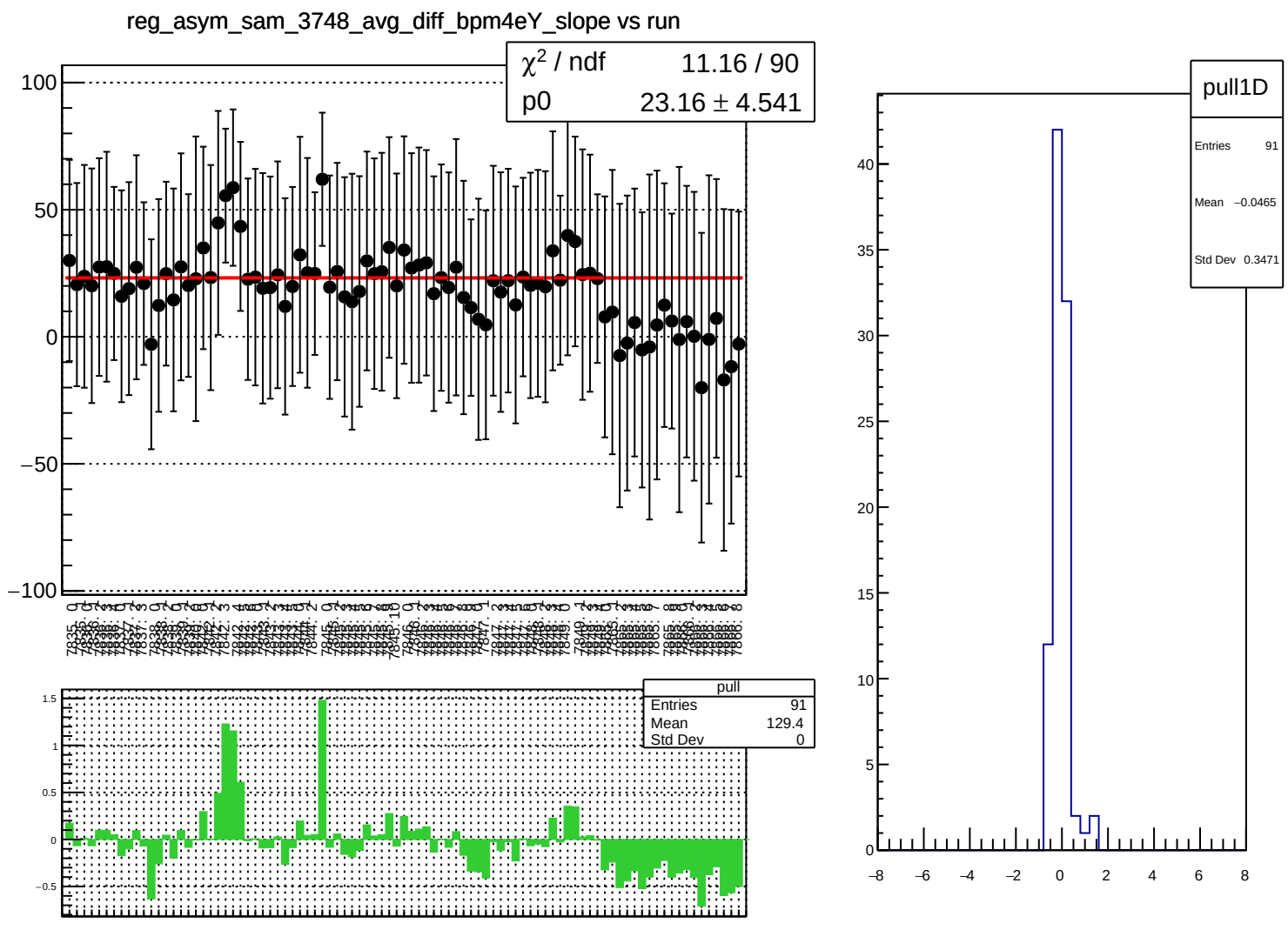

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 164.7 / 90
p0 −40.24 ± 3.341
pull
Entries 91
Mean 78.84
Std Dev 14.61

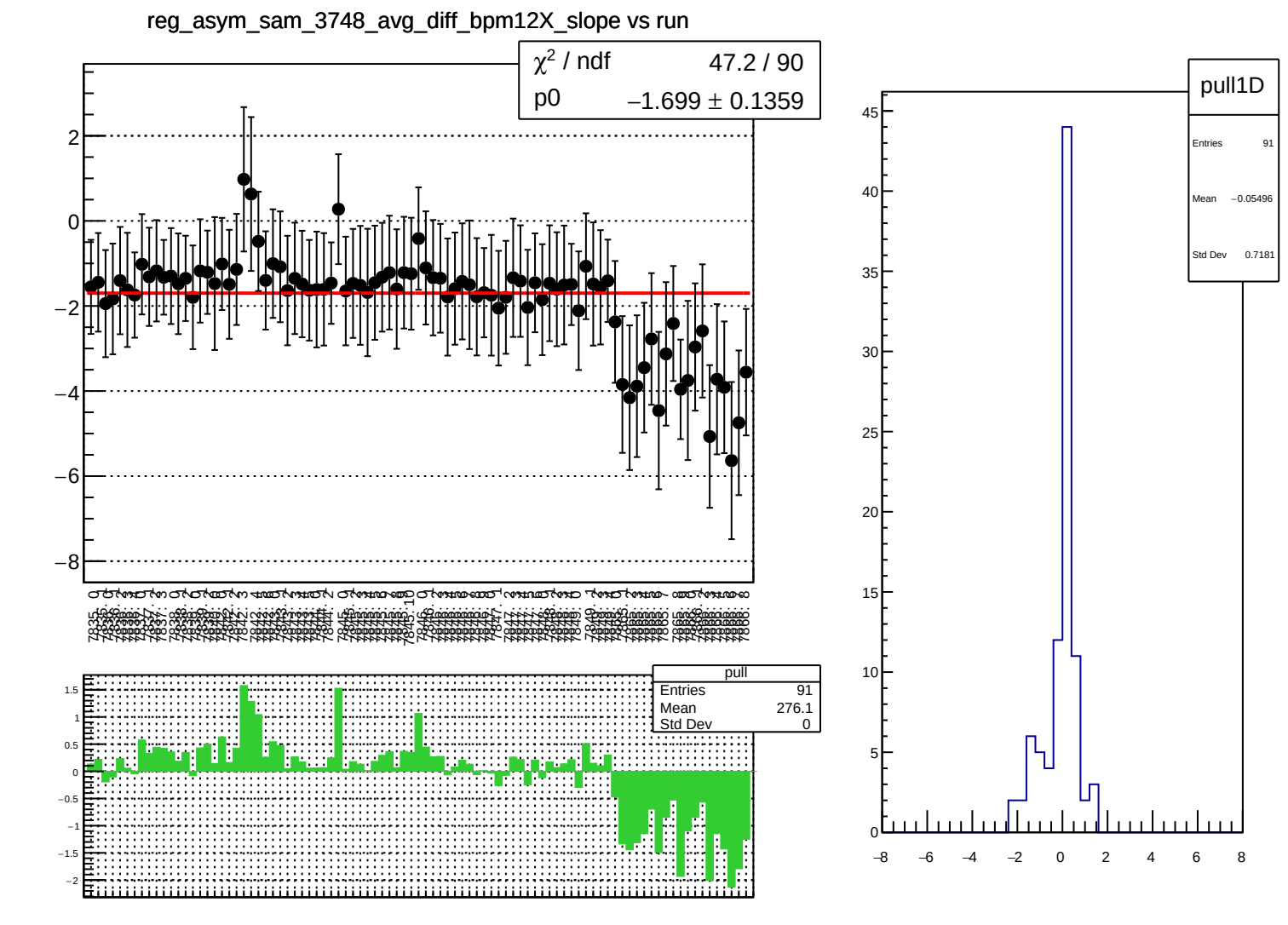

pull1D
Entries 91
Mean −0.4652
Std Dev 1.262

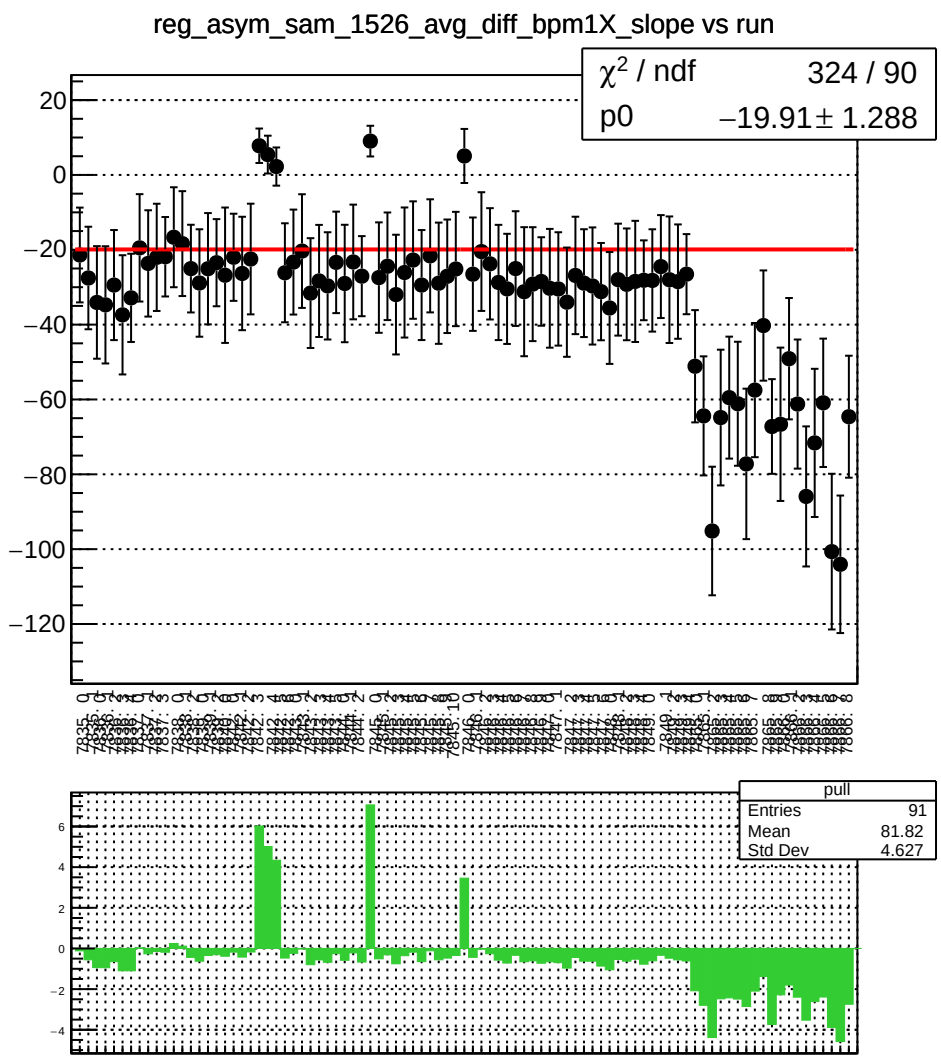

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.4 / 90
p0 31.7 ± 3.932
pull
Entries 91
Mean 102.4
Std Dev 0
pull1D
Entries 91
Mean 0.07448
Std Dev 0.4046

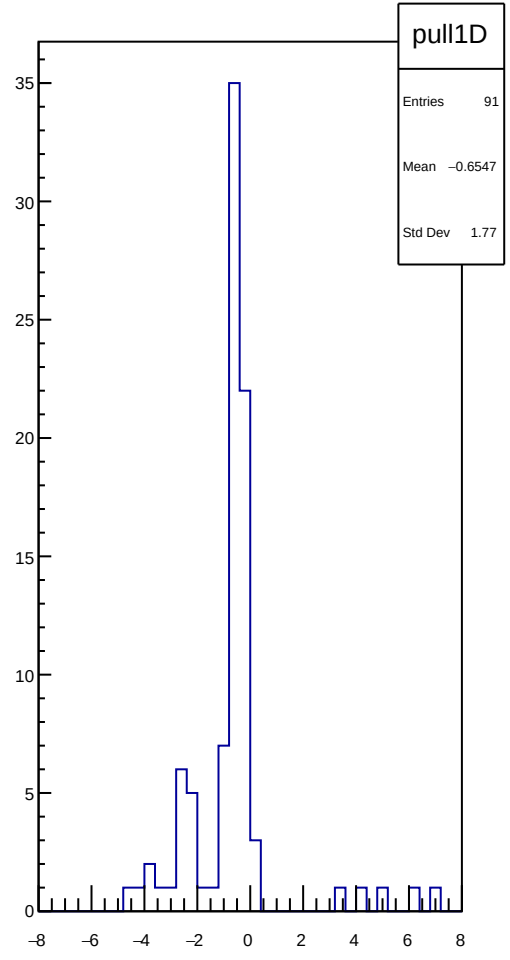

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 165.1 / 90
p0 −66.01 ± 2.931
pull
Entries 91
Mean 72.61
Std Dev 22.47

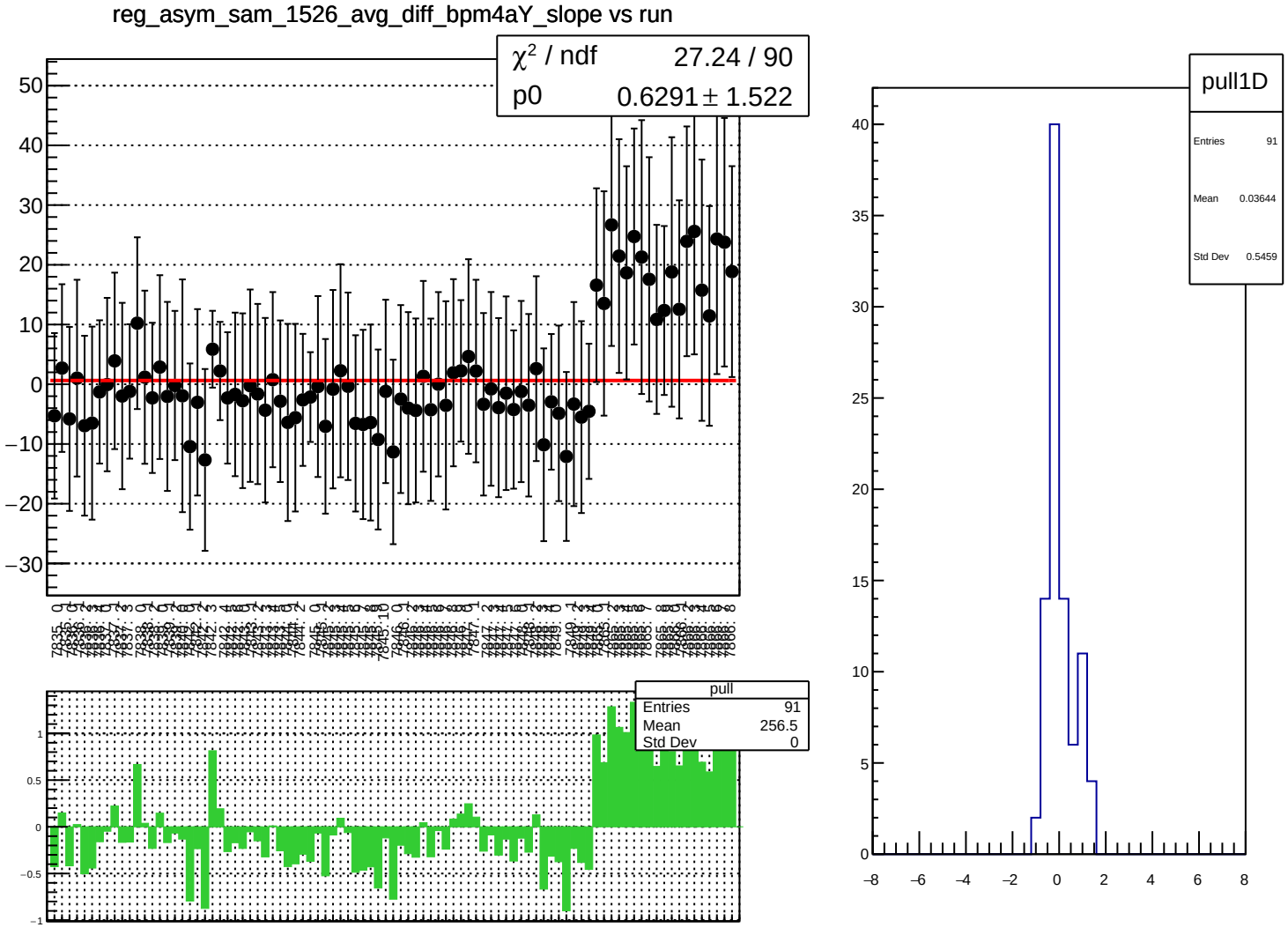

pull1D
Entries 91
Mean 0.5257
Std Dev 1.24

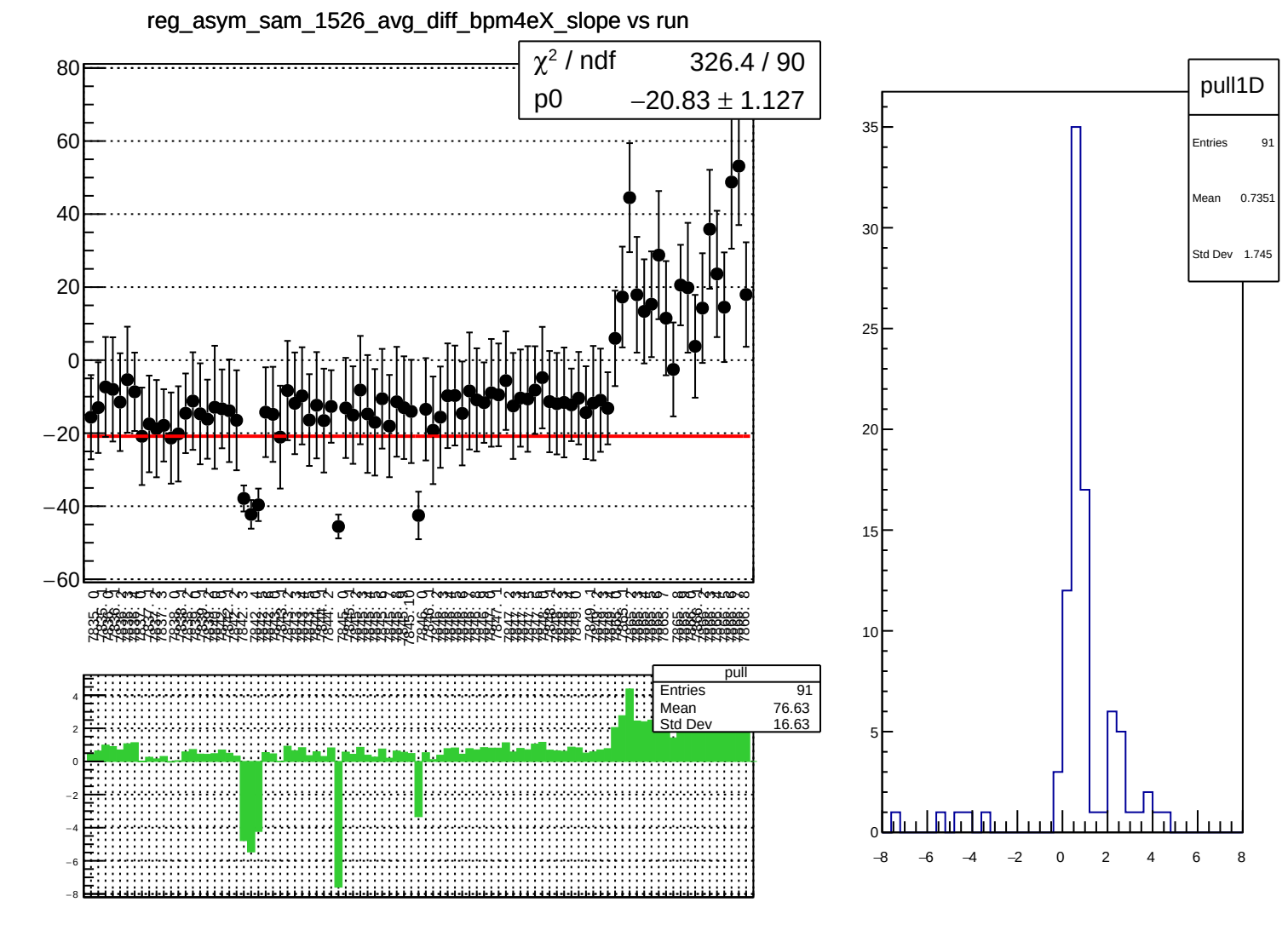

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.16 / 90
p0 23.16 ± 4.541
100
50
0
−50
−100
pull
Entries 91
Mean 129.4
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.0465
Std Dev 0.3471
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

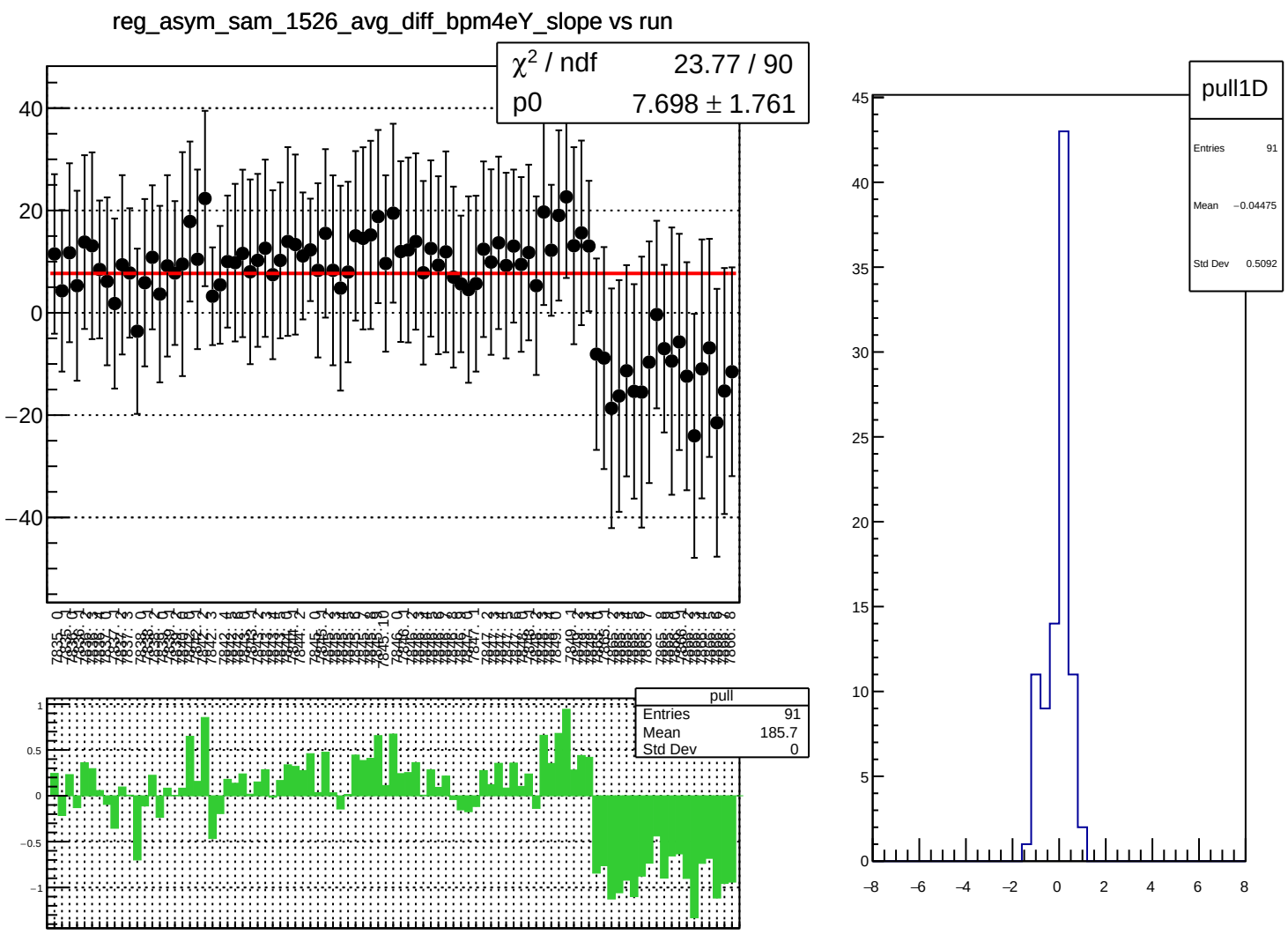

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 47.2 / 90
p0 −1.699 ± 0.1359
pull
Entries 91
Mean 276.1
Std Dev 0
pull1D
Entries 91
Mean −0.05496
Std Dev 0.7181

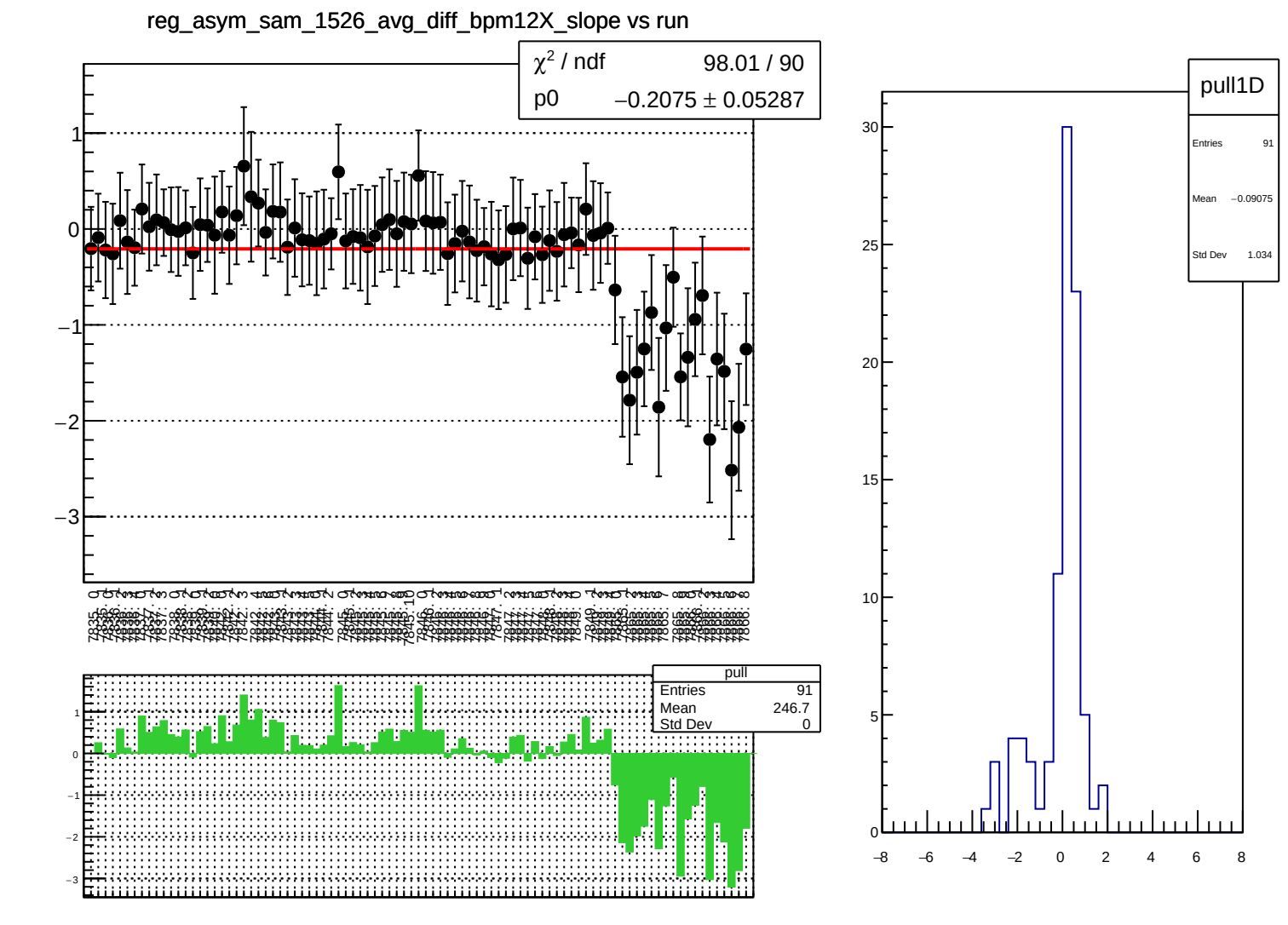

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 324 / 90
p0 −19.91± 1.288
pull
Entries 91
Mean 81.82
Std Dev 4.627

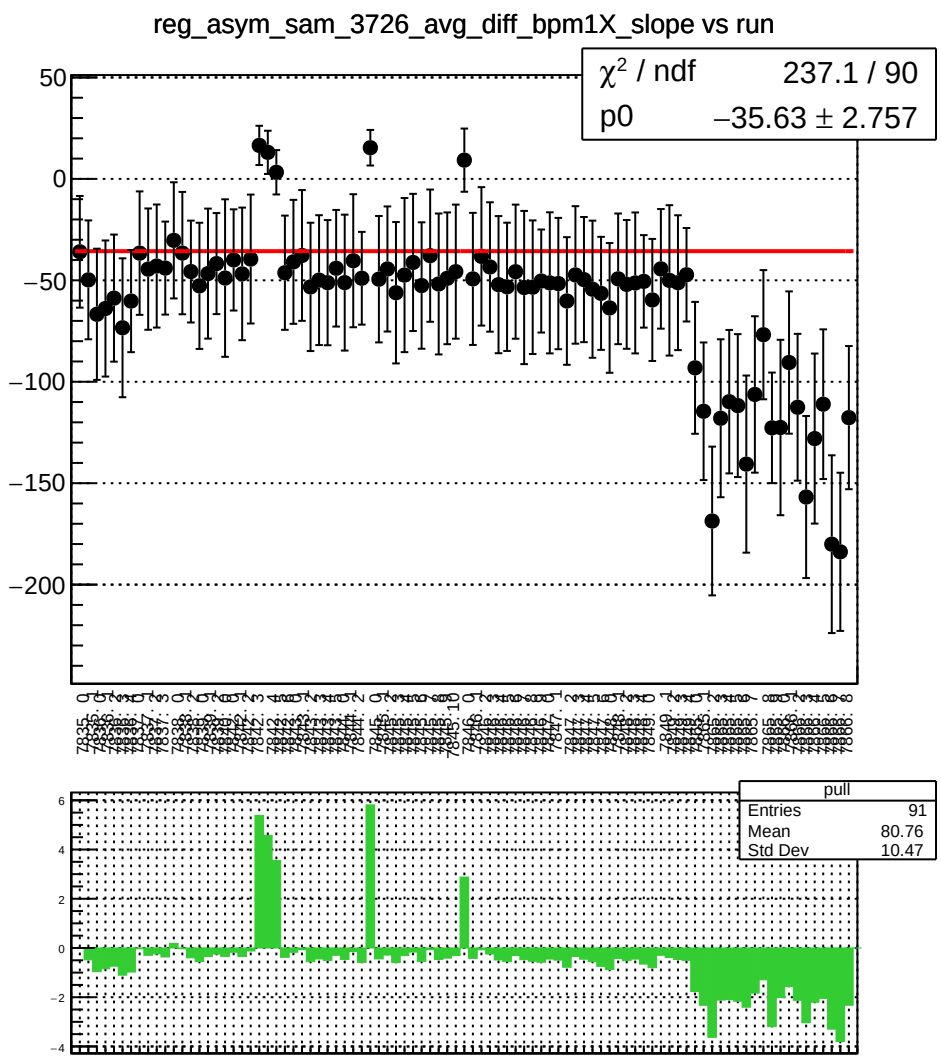

pull1D
Entries 91
Mean −0.6547
Std Dev 1.77

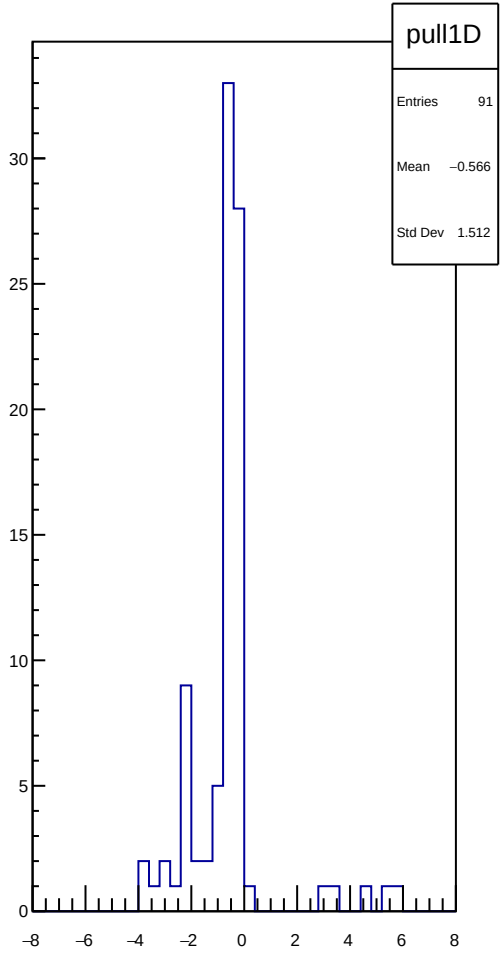

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.24 / 90
p0 0.6291 ± 1.522
pull
Entries 91
Mean 256.5
Std Dev 0
pull1D
Entries 91
Mean 0.03644
Std Dev 0.5459

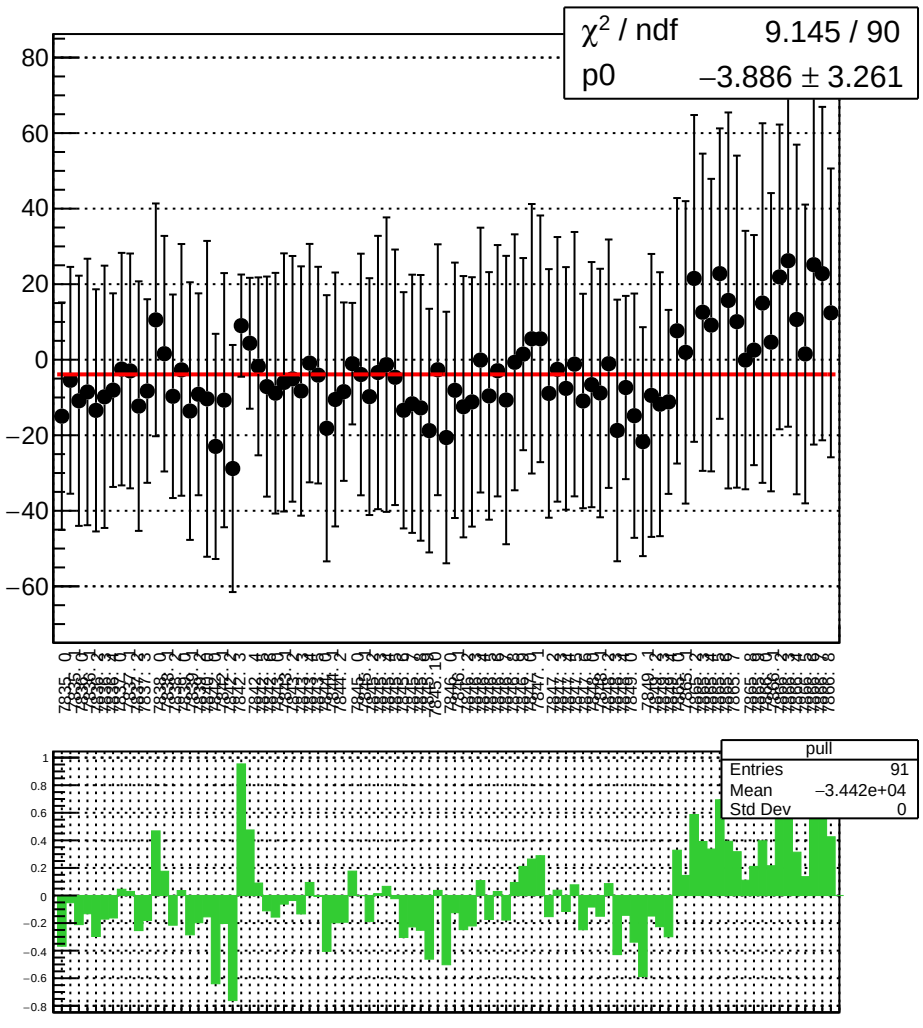

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 326.4 / 90
p0 −20.83 ± 1.127
pull
Entries 91
Mean 76.63
Std Dev 16.63
pull1D
Entries 91
Mean 0.7351
Std Dev 1.745

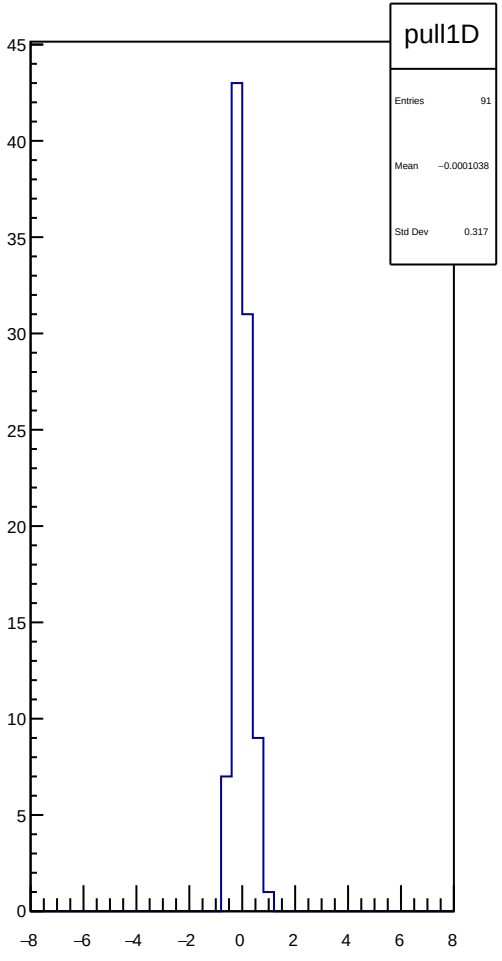

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.77 / 90
p0 7.698 ± 1.761
pull
Entries 91
Mean 185.7
Std Dev 0
pull1D
Entries 91
Mean −0.04475
Std Dev 0.5092

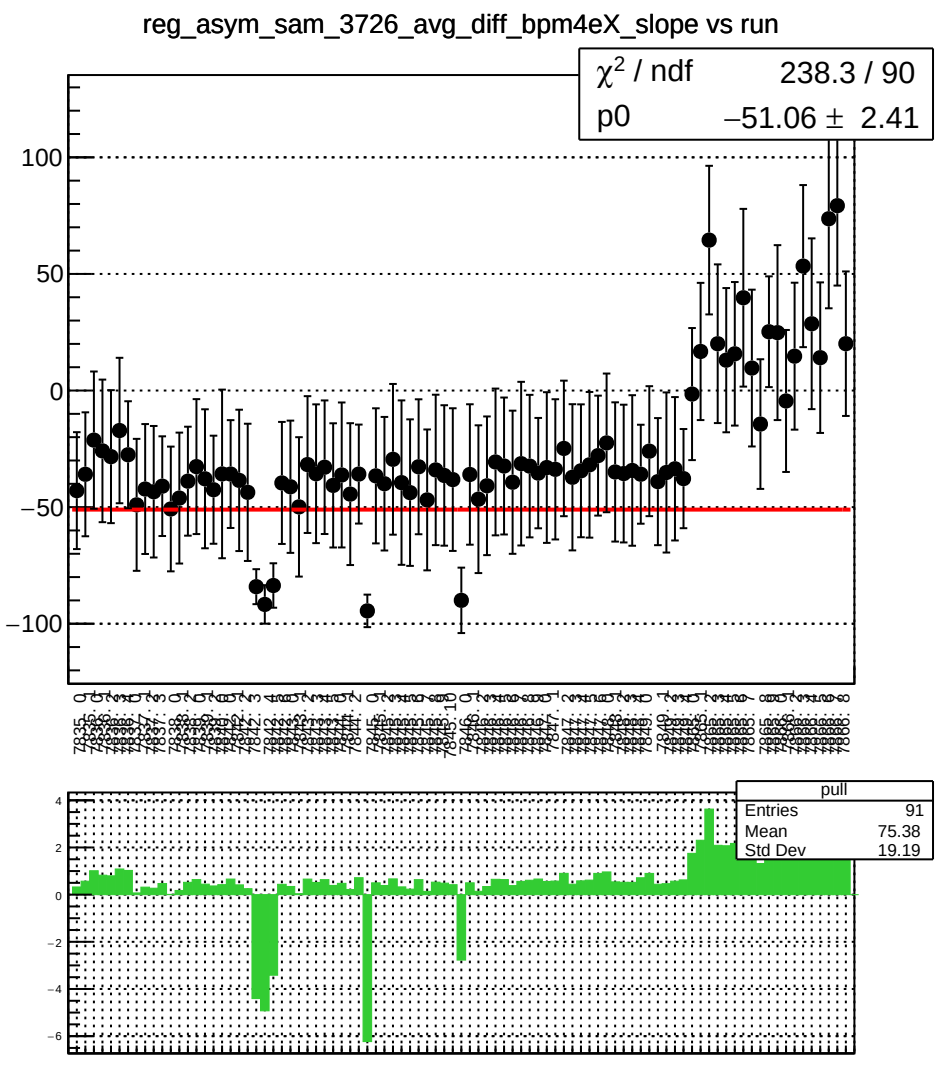

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 98.01 / 90
p0 −0.2075 ± 0.05287
pull
Entries 91
Mean 246.7
Std Dev 0
pull1D
Entries 91
Mean −0.09075
Std Dev 1.034

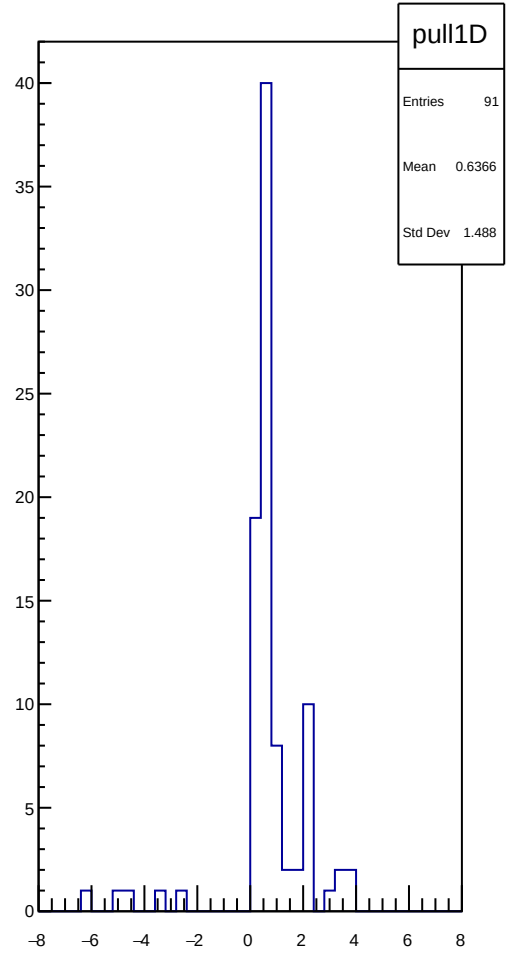

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 237.1 / 90
p0 −35.63 ± 2.757
pull
Entries 91
Mean 80.76
Std Dev 10.47

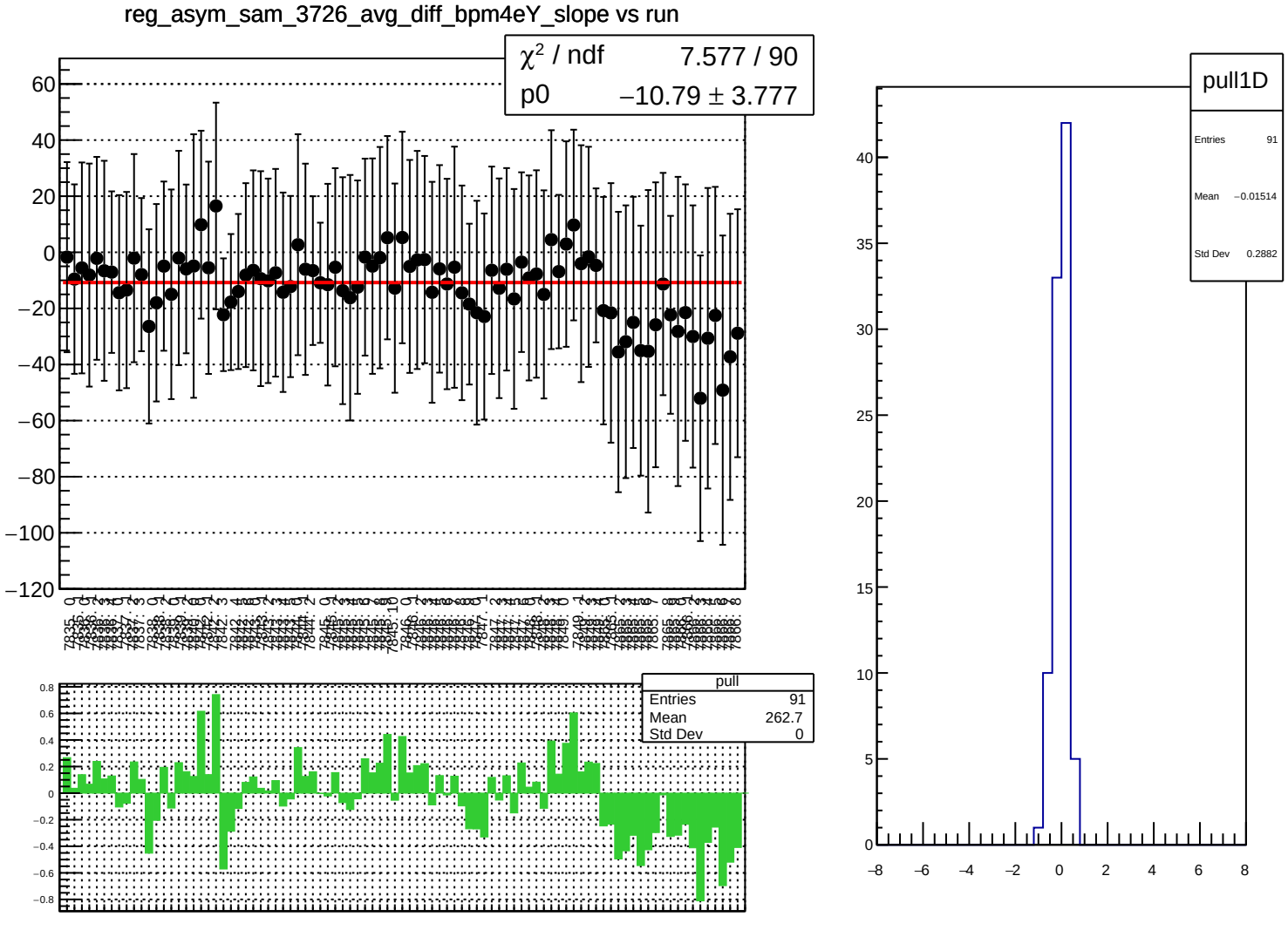

pull1D
Entries 91
Mean −0.566
Std Dev 1.512

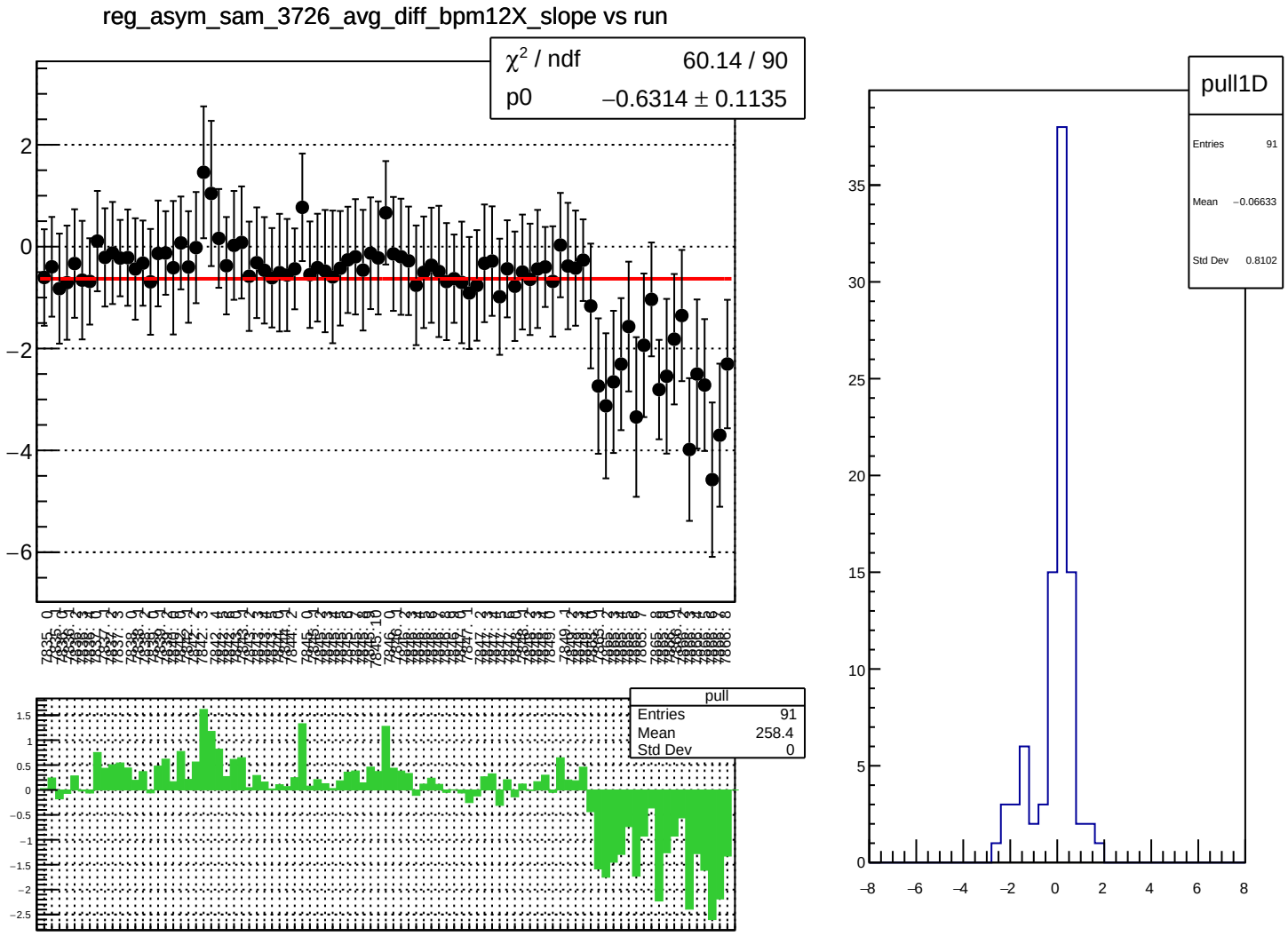

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.145 / 90
p0 −3.886 ± 3.261
pull
Entries 91
Mean −3.442e+04
Std Dev 0

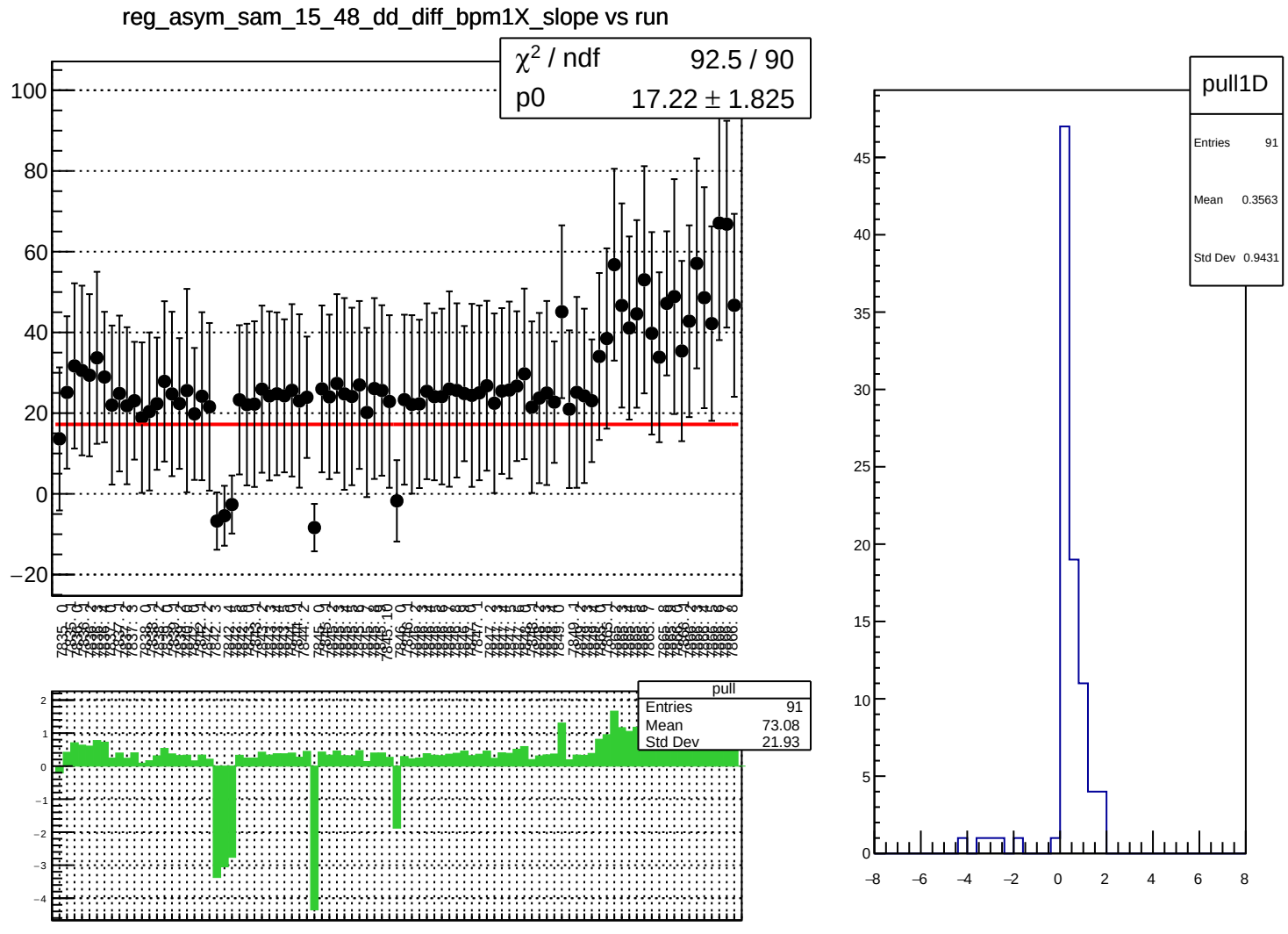

pull1D
Entries 91
Mean −0.0001038
Std Dev 0.317

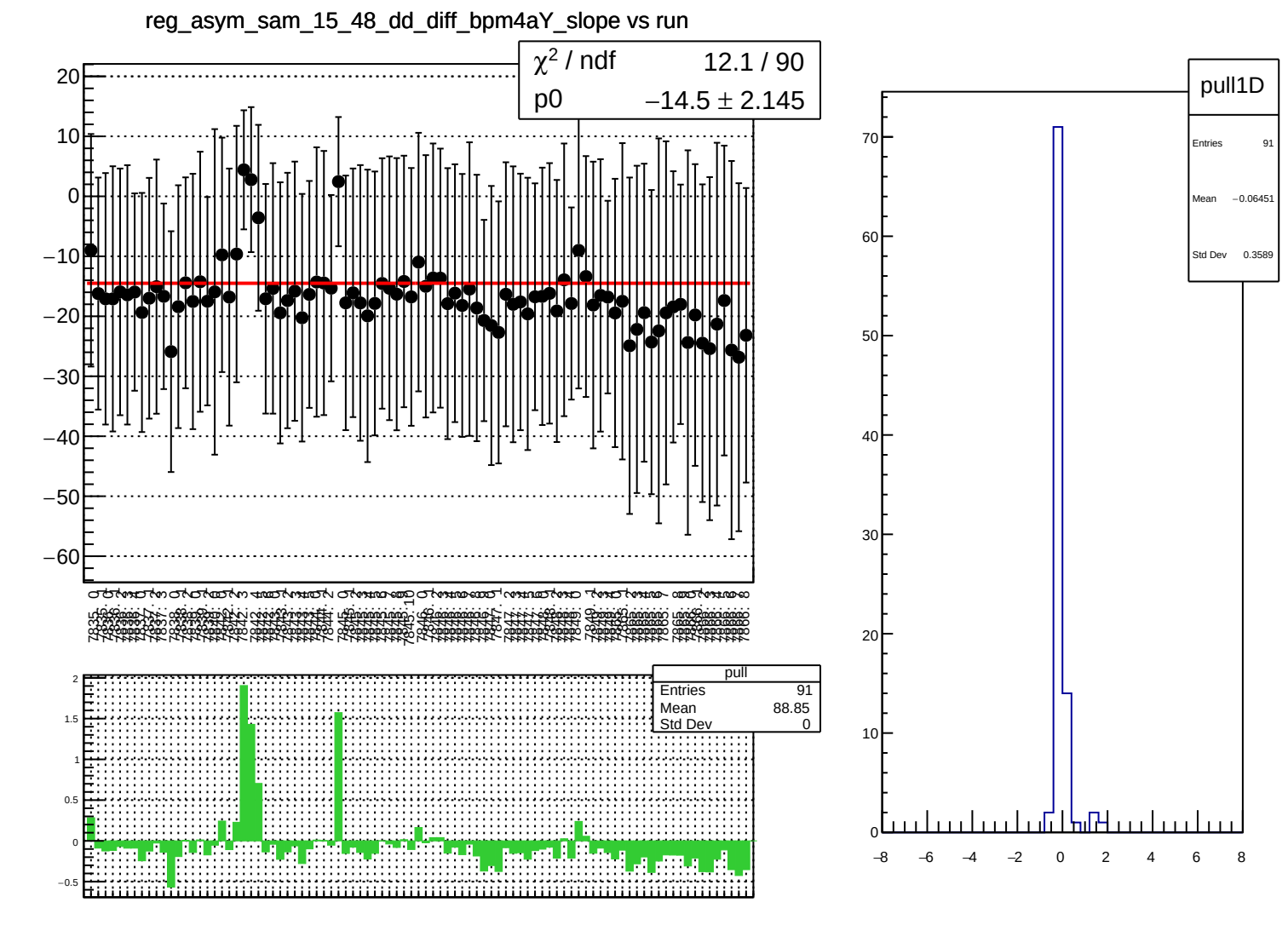

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 238.3 / 90
p0 −51.06 ± 2.41
100
50
0
−50
−100
pull
Entries 91
Mean 75.38
Std Dev 19.19
4
2
0
−2
−4
−6

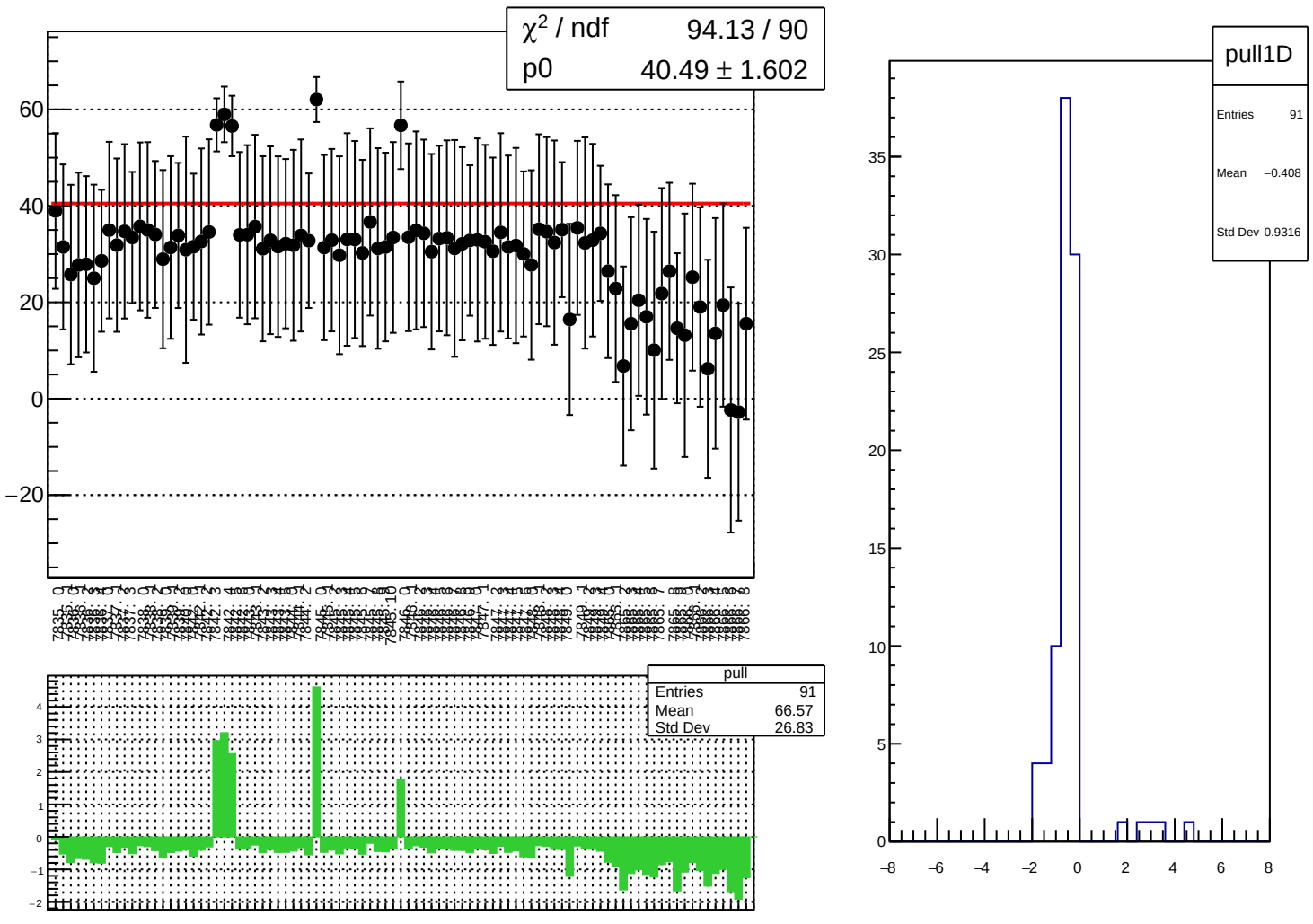

pull1D
Entries 91
Mean 0.6366
Std Dev 1.488
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

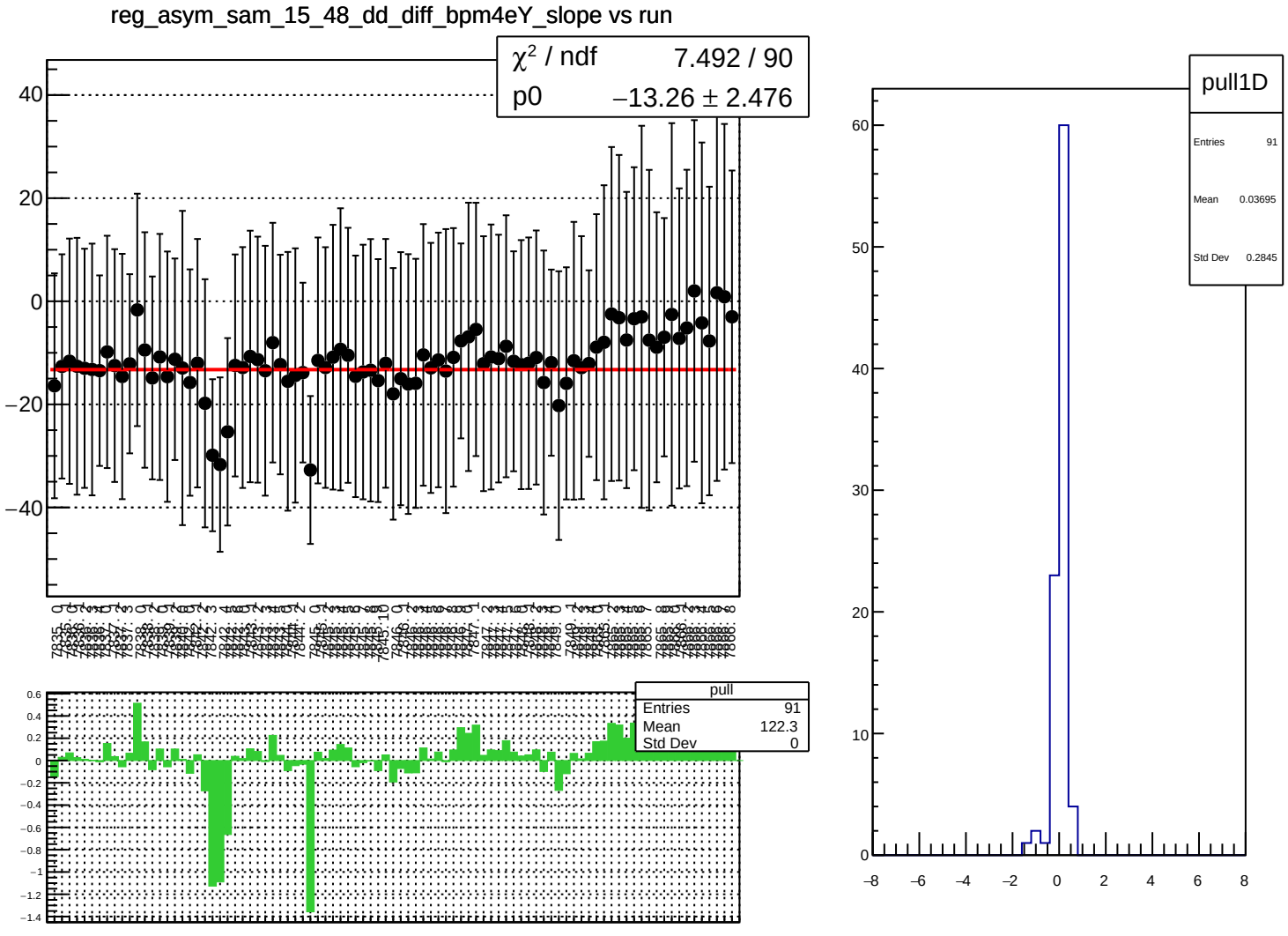

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.577 / 90
p0 −10.79 ± 3.777
pull
Entries 91
Mean 262.7
Std Dev 0
pull1D
Entries 91
Mean −0.01514
Std Dev 0.2882

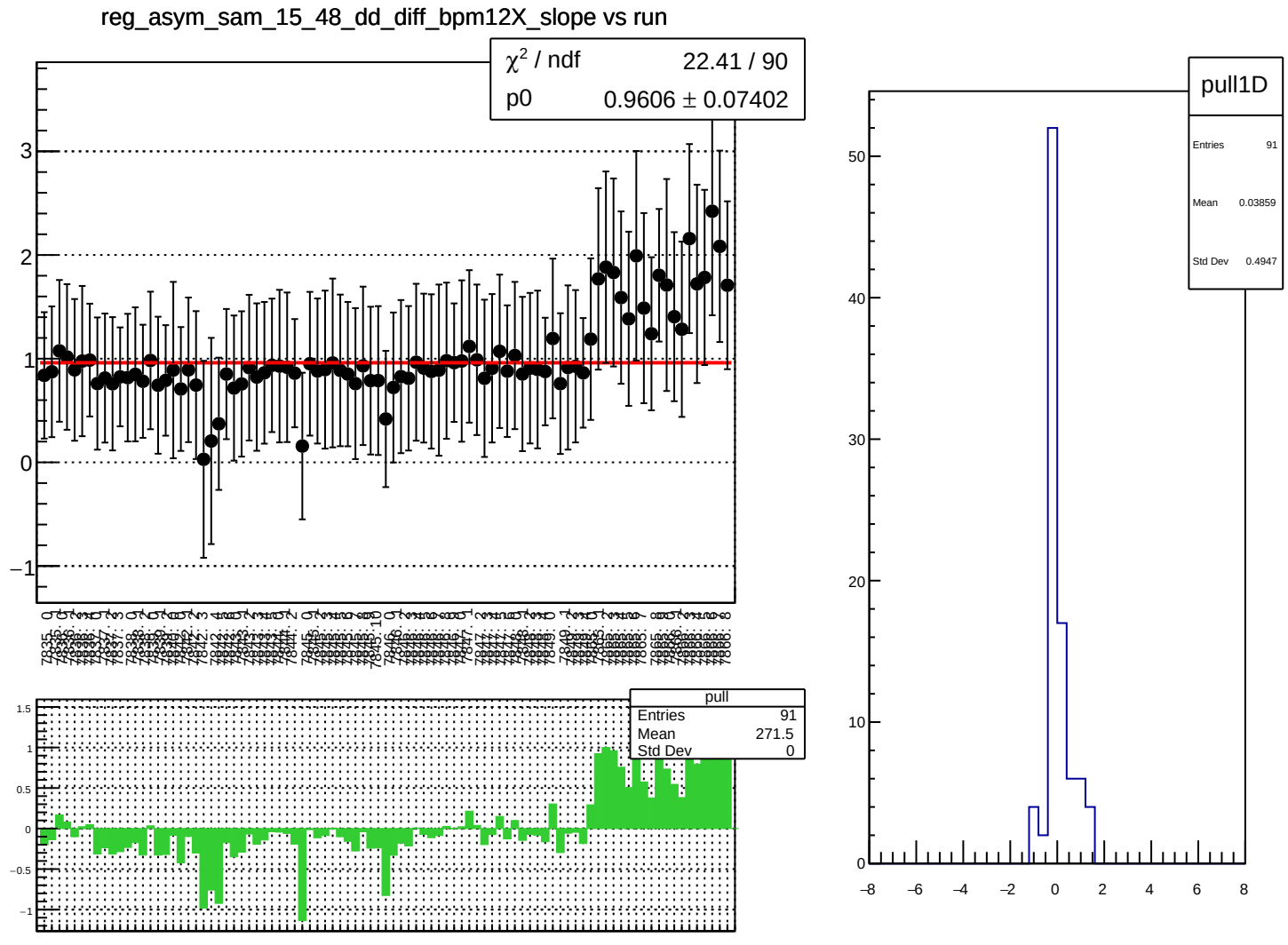

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 60.14 / 90
p0 −0.6314 ± 0.1135
pull
Entries 91
Mean 258.4
Std Dev 0
pull1D
Entries 91
Mean −0.06633
Std Dev 0.8102

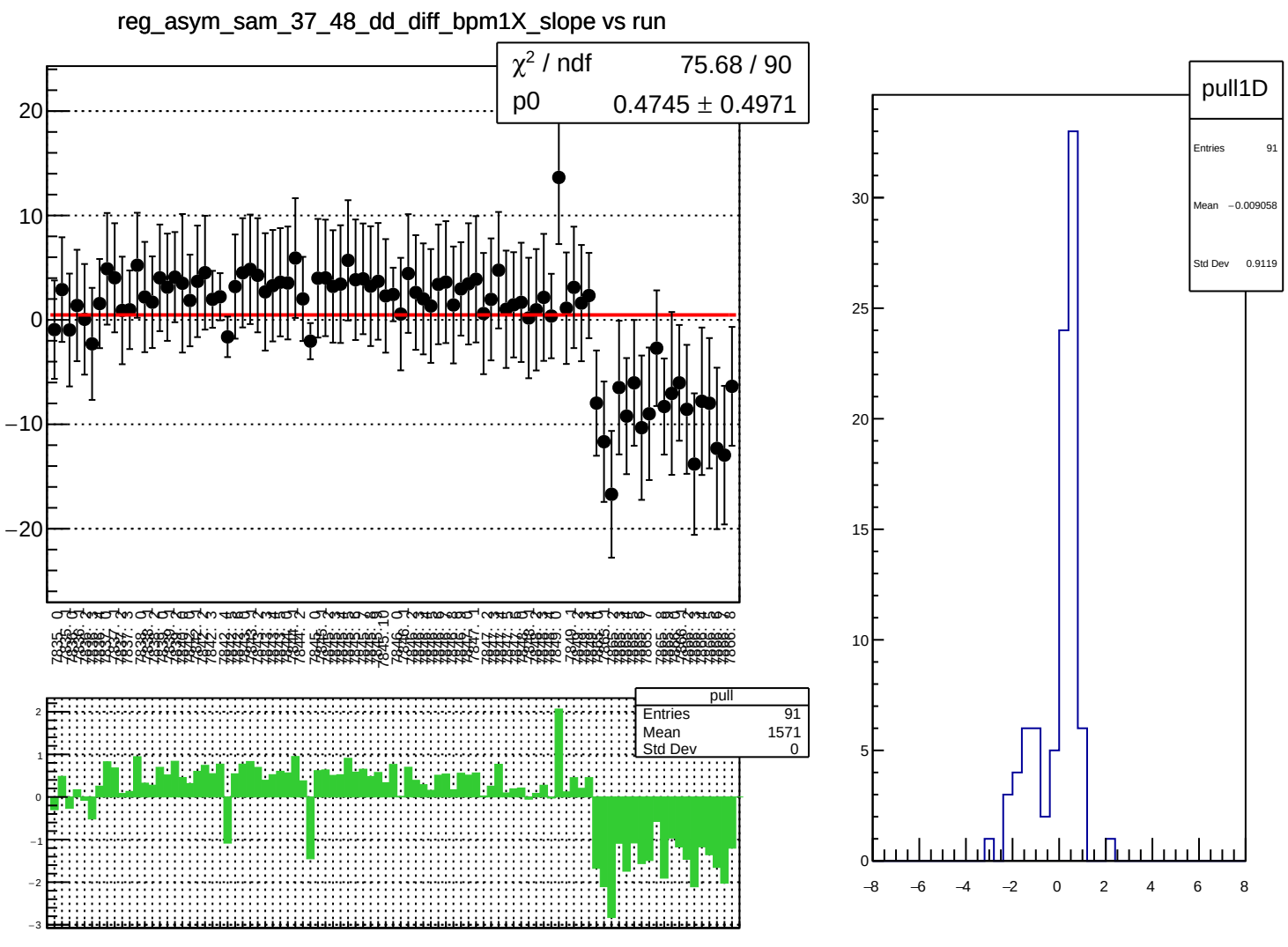

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 92.5 / 90
p0 17.22 ± 1.825
pull
Entries 91
Mean 73.08
Std Dev 21.93
pull1D
Entries 91
Mean 0.3563
Std Dev 0.9431

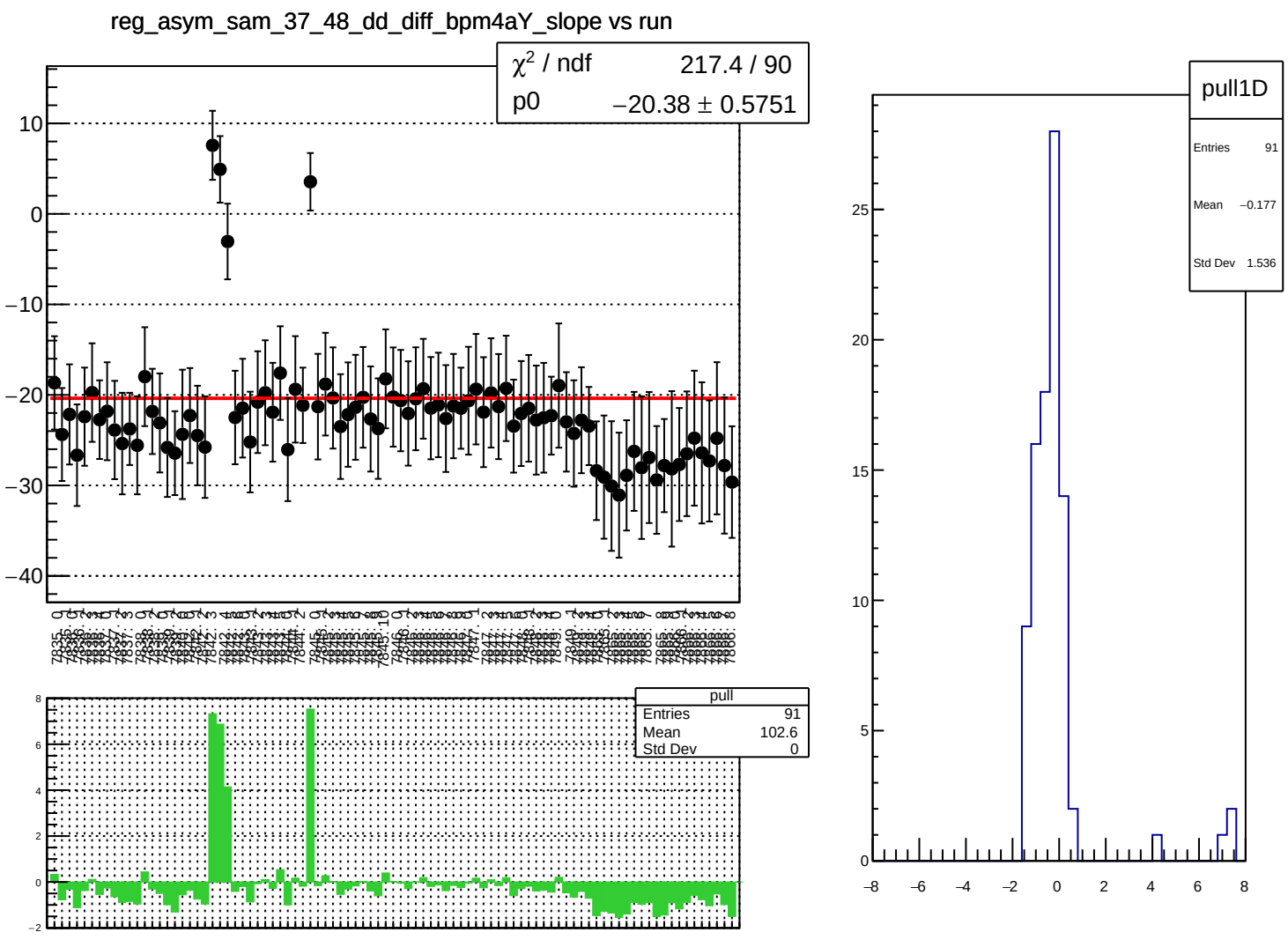

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.1 / 90
p0 −14.5 ± 2.145
pull
Entries 91
Mean 88.85
Std Dev 0
pull1D
Entries 91
Mean −0.06451
Std Dev 0.3589

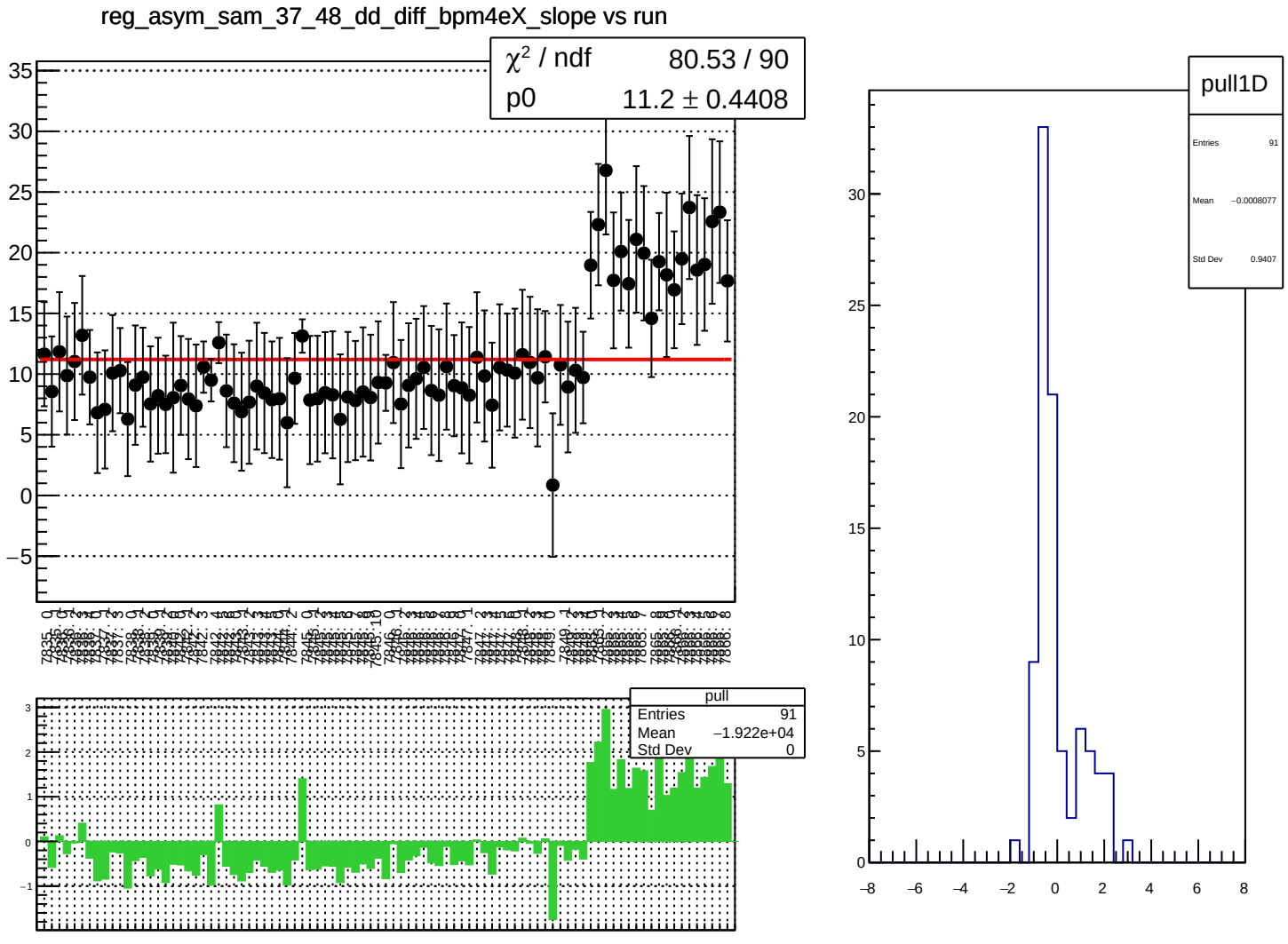

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.13 / 90
p0 40.49 ± 1.602
pull
Entries 91
Mean 66.57
Std Dev 26.83
pull1D
Entries 91
Mean −0.408
Std Dev 0.9316

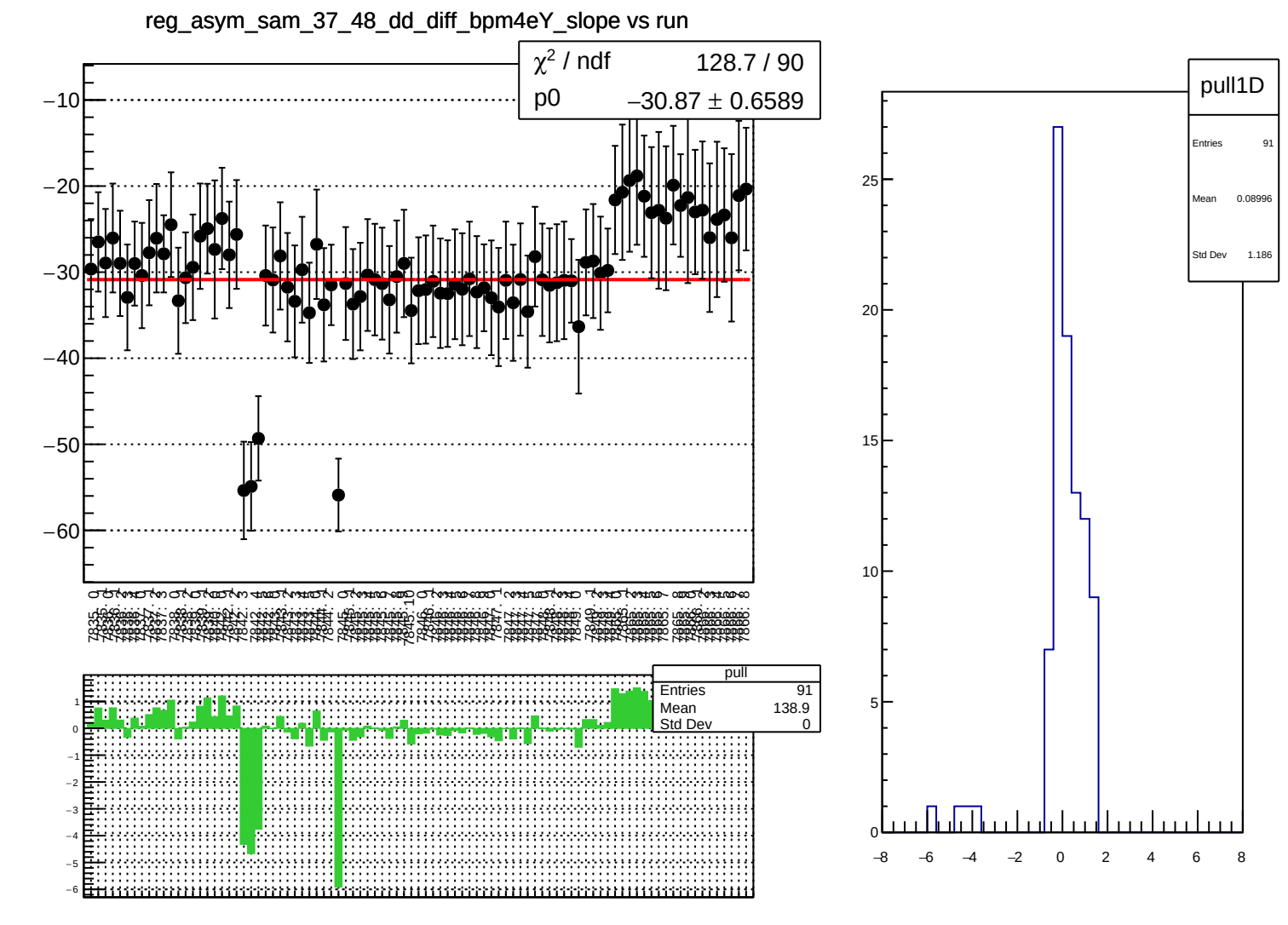

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.492 / 90
p0 −13.26 ± 2.476
pull
Entries 91
Mean 122.3
Std Dev 0
pull1D
Entries 91
Mean 0.03695
Std Dev 0.2845

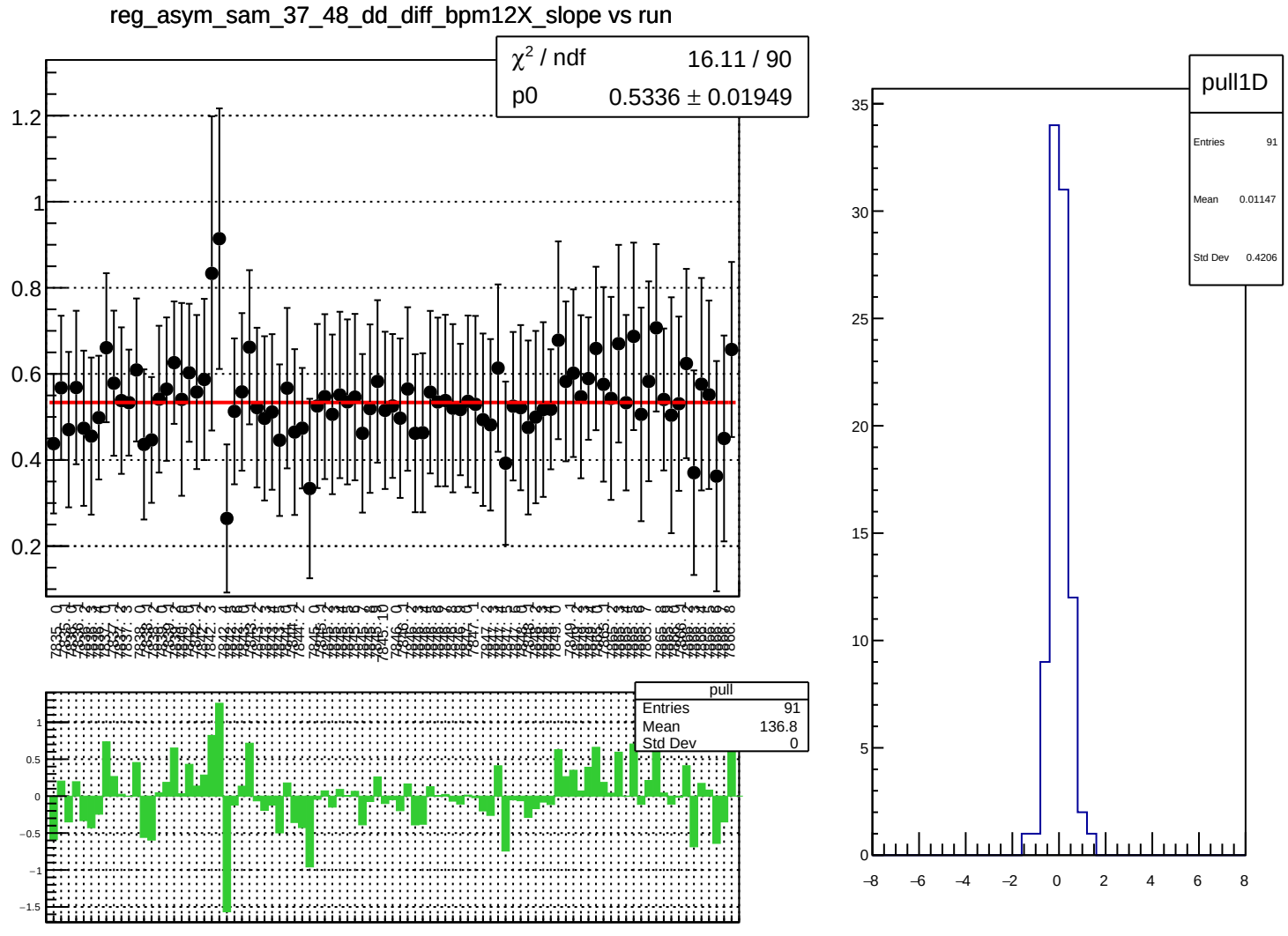

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 22.41 / 90
p0 0.9606 ± 0.07402
pull
Entries 91
Mean 271.5
Std Dev 0
pull1D
Entries 91
Mean 0.03859
Std Dev 0.4947

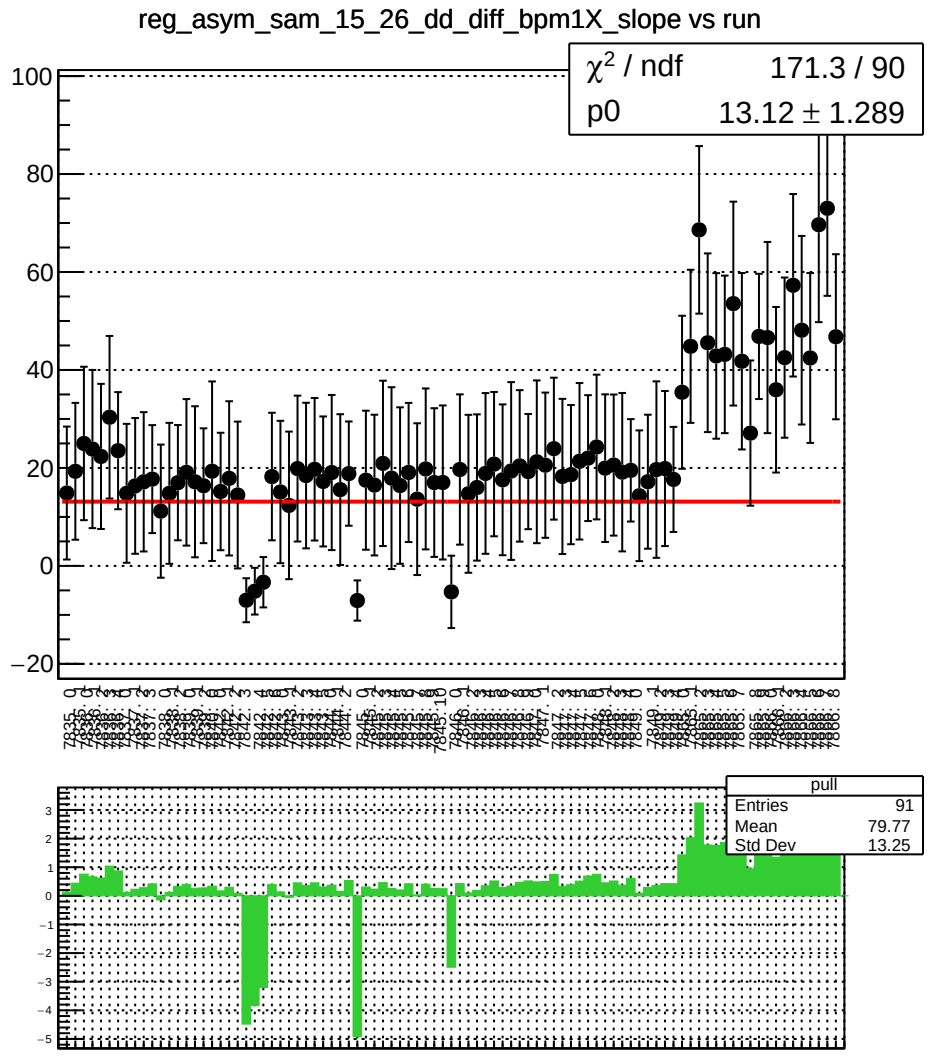

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 75.68 / 90
p0 0.4745 ± 0.4971
pull
Entries 91
Mean 1571
Std Dev 0
pull1D
Entries 91
Mean −0.009058
Std Dev 0.9119

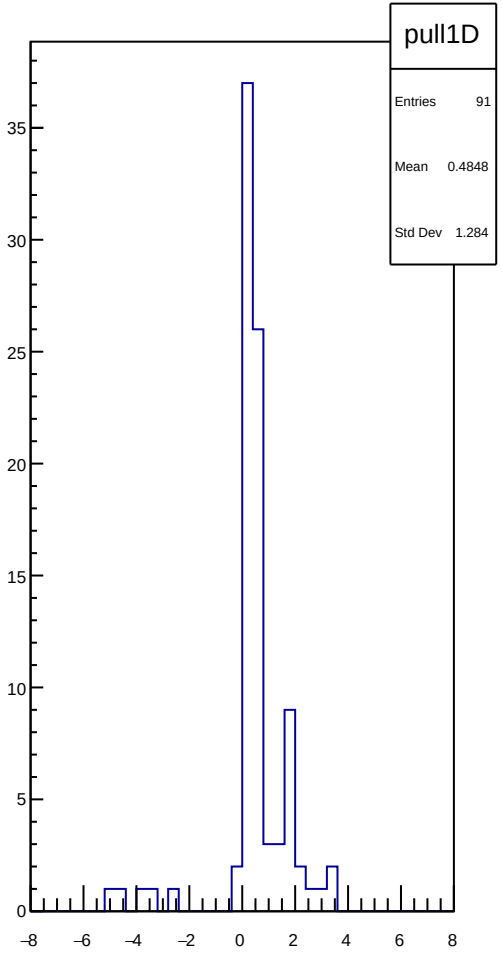

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 217.4 / 90
p0 −20.38 ± 0.5751
pull
Entries 91
Mean 102.6
Std Dev 0
pull1D
Entries 91
Mean −0.177
Std Dev 1.536

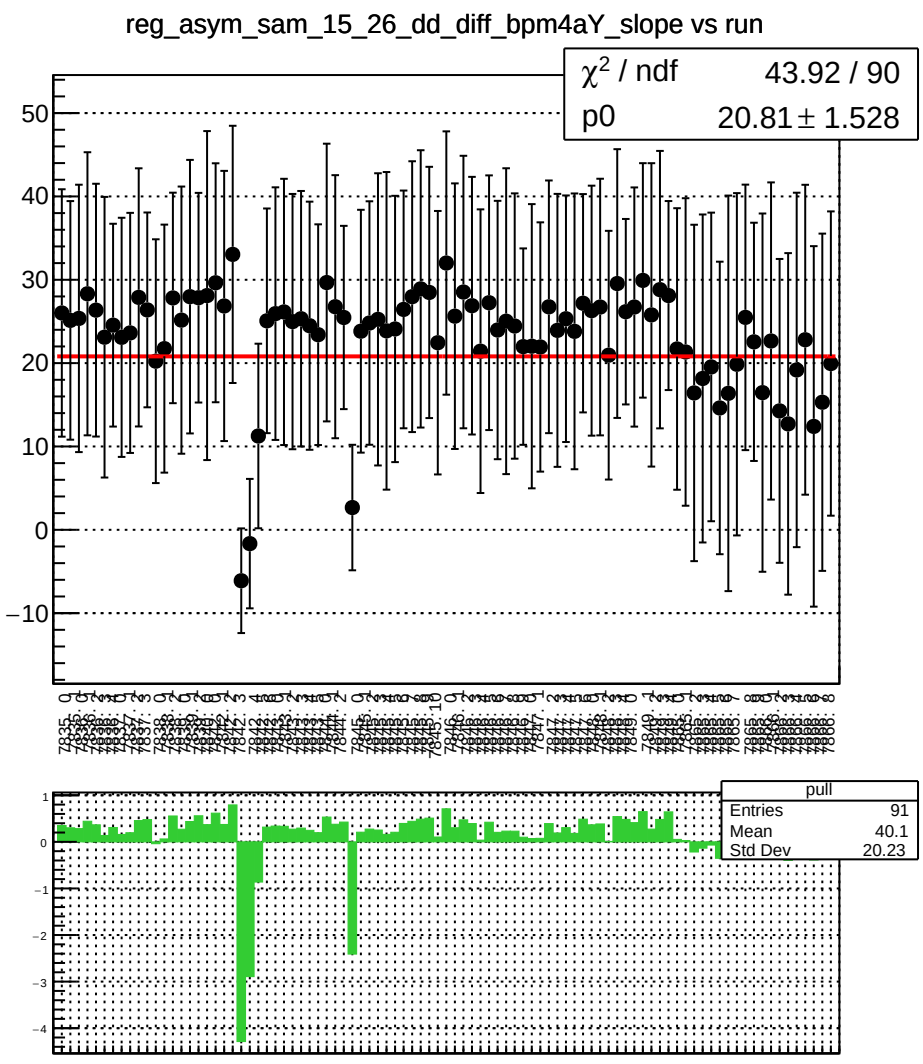

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.53 / 90
p0 11.2 ± 0.4408
pull
Entries 91
Mean −1.922e+04
Std Dev 0
pull1D
Entries 91
Mean −0.0008077
Std Dev 0.9407

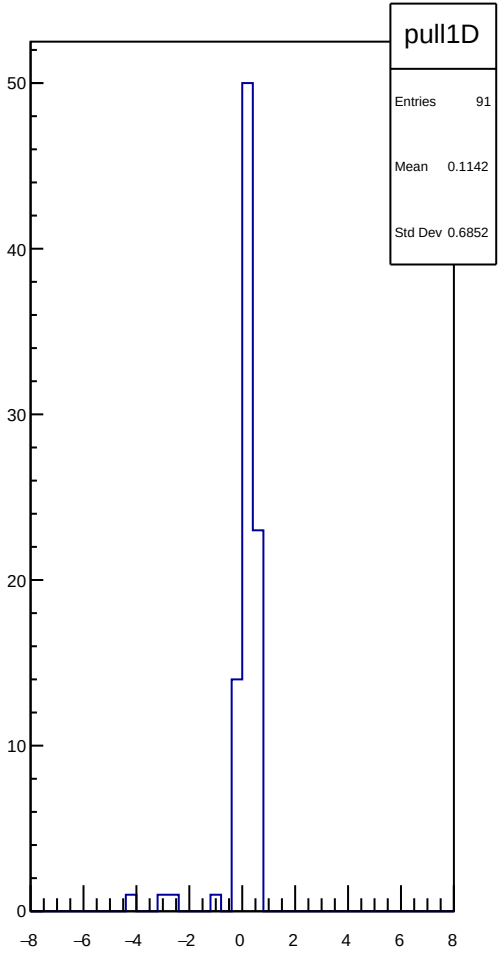

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 128.7 / 90
p0 −30.87 ± 0.6589
pull
Entries 91
Mean 138.9
Std Dev 0
pull1D
Entries 91
Mean 0.08996
Std Dev 1.186

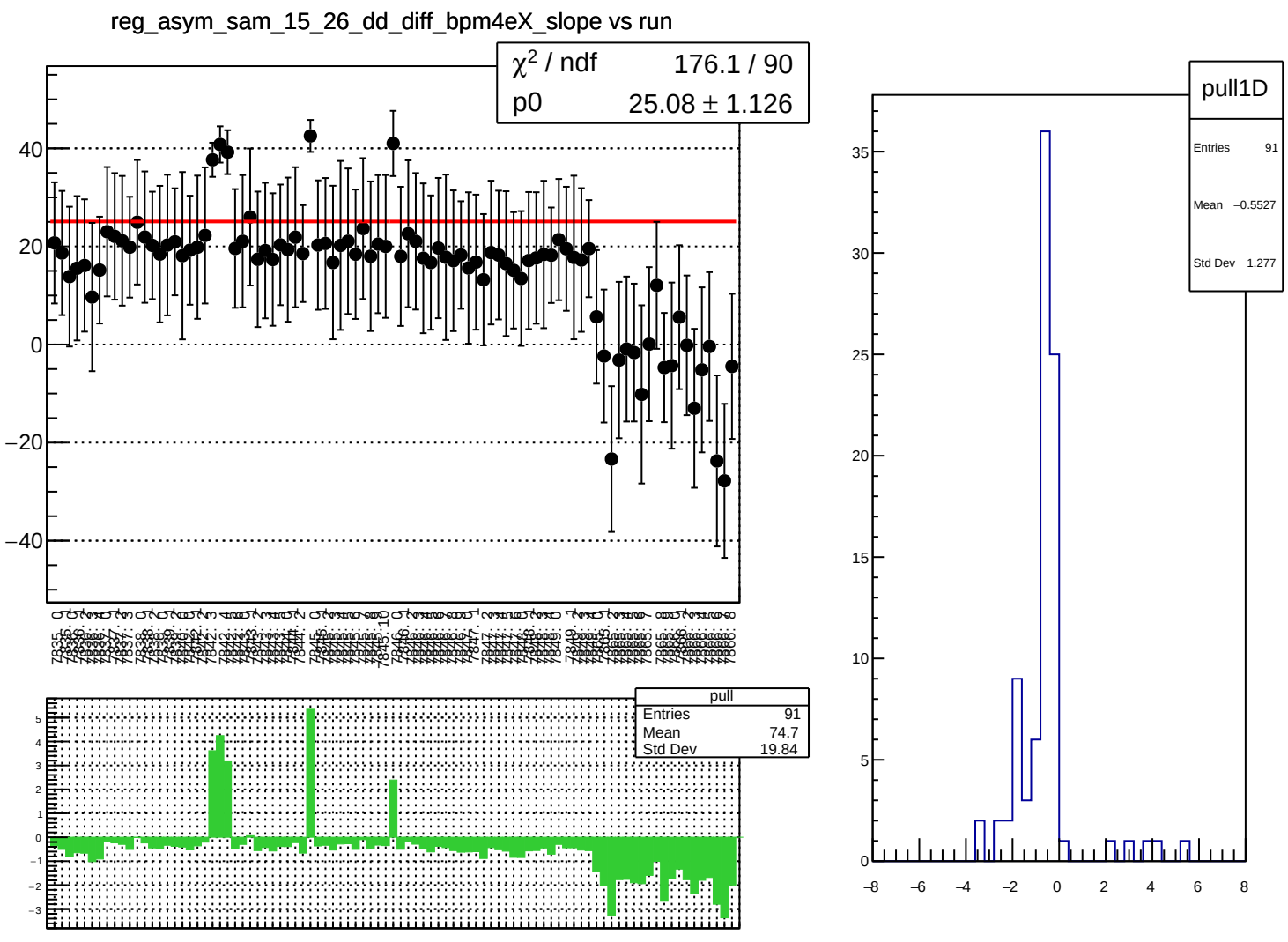

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.11 / 90
p0 0.5336 ± 0.01949
pull
Entries 91
Mean 136.8
Std Dev 0
pull1D
Entries 91
Mean 0.01147
Std Dev 0.4206

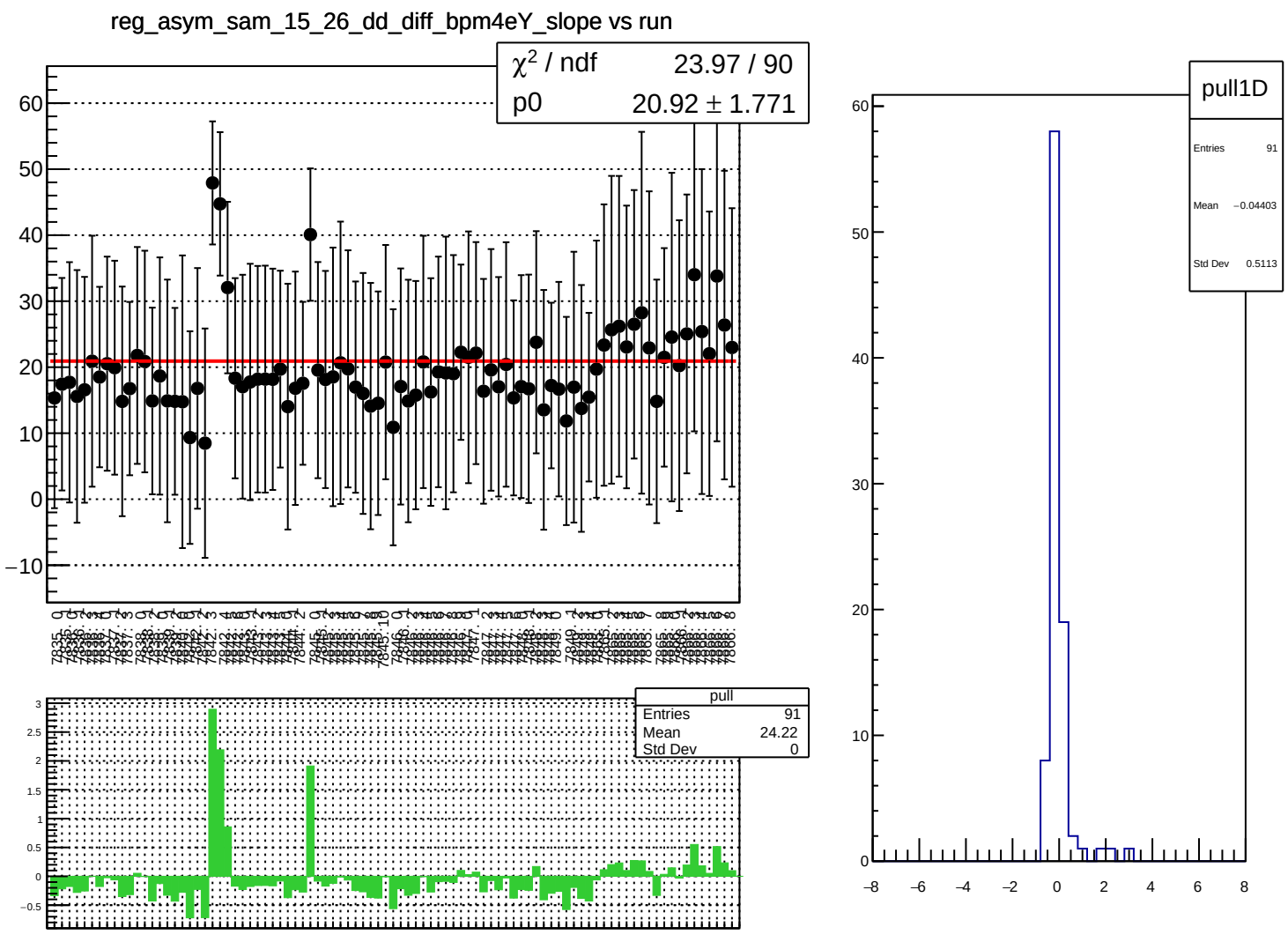

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 171.3 / 90
p0 13.12 ± 1.289
pull
Entries 91
Mean 79.77
Std Dev 13.25

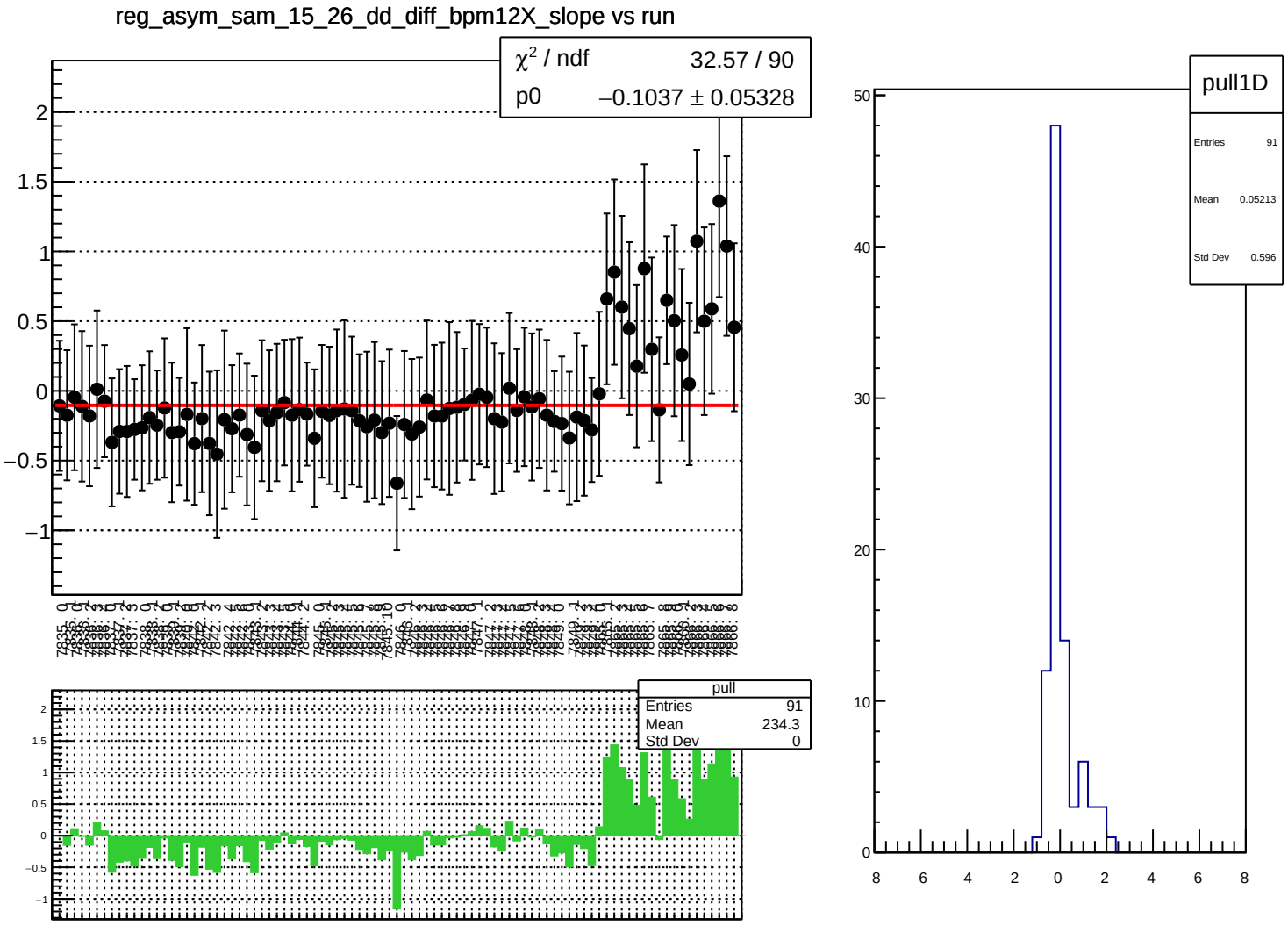

pull1D
Entries 91
Mean 0.4848
Std Dev 1.284

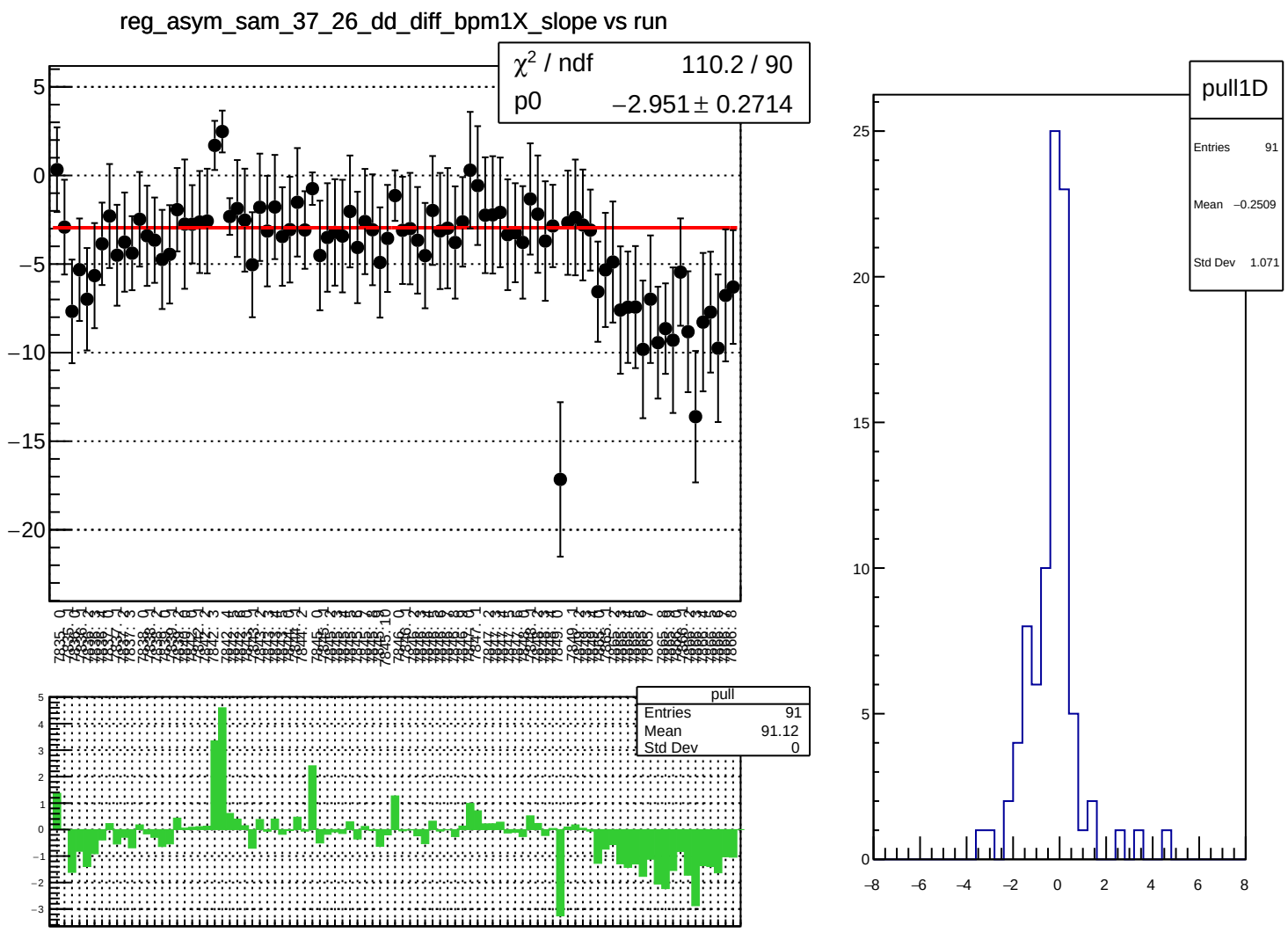

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.92 / 90
p0 20.81 ± 1.528
pull
Entries 91
Mean 40.1
Std Dev 20.23

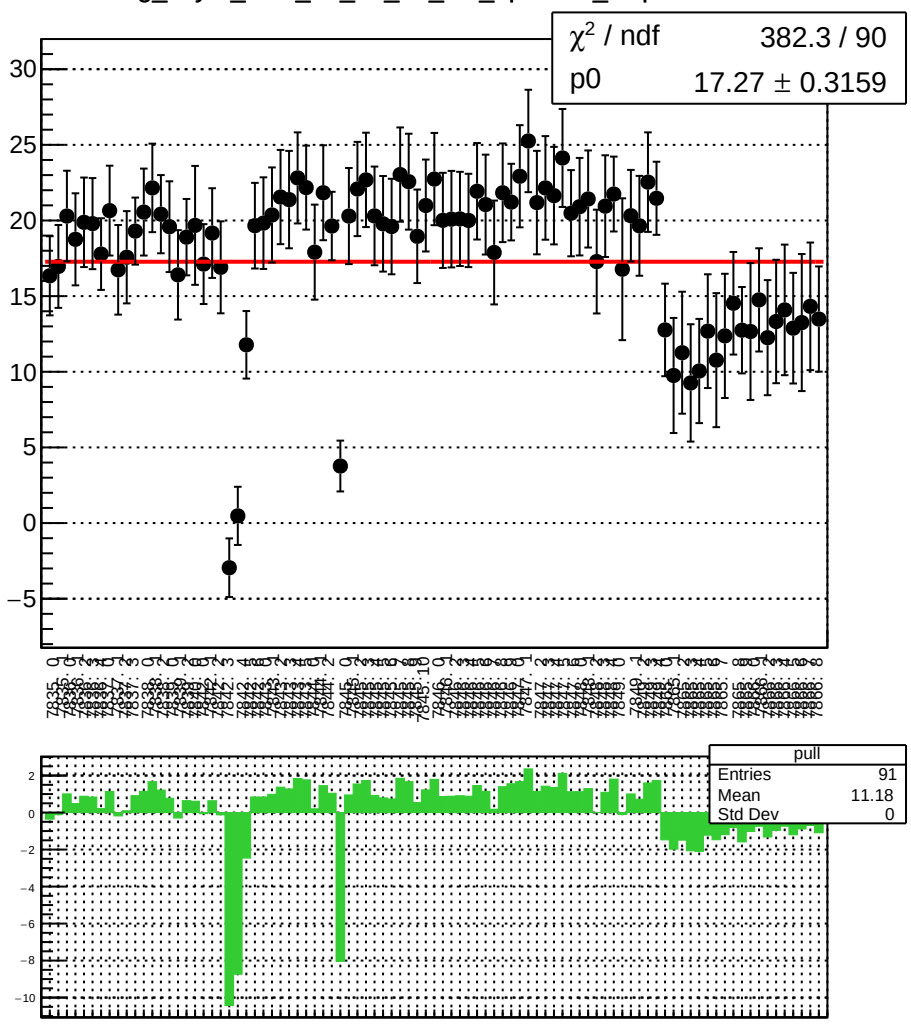

pull1D
Entries 91
Mean 0.1142
Std Dev 0.6852

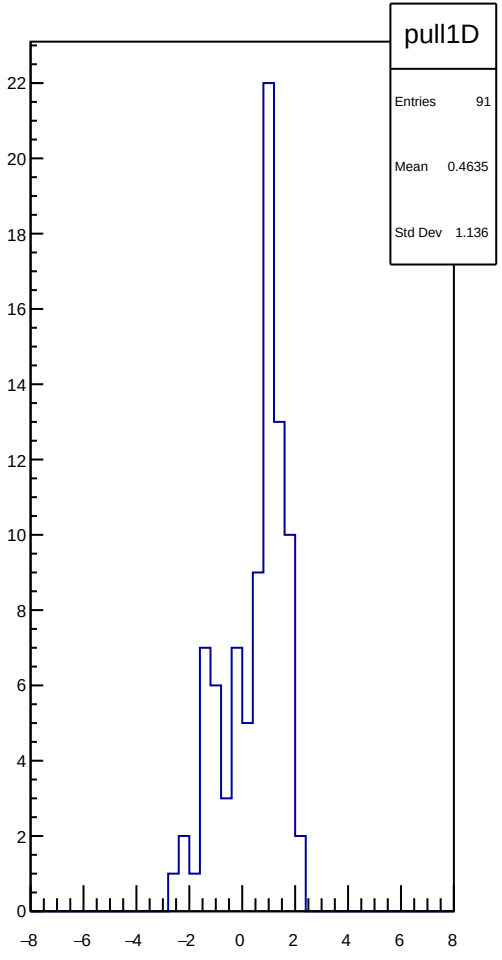

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 176.1 / 90
p0 25.08 ± 1.126
pull
Entries 91
Mean 74.7
Std Dev 19.84
pull1D
Entries 91
Mean −0.5527
Std Dev 1.277

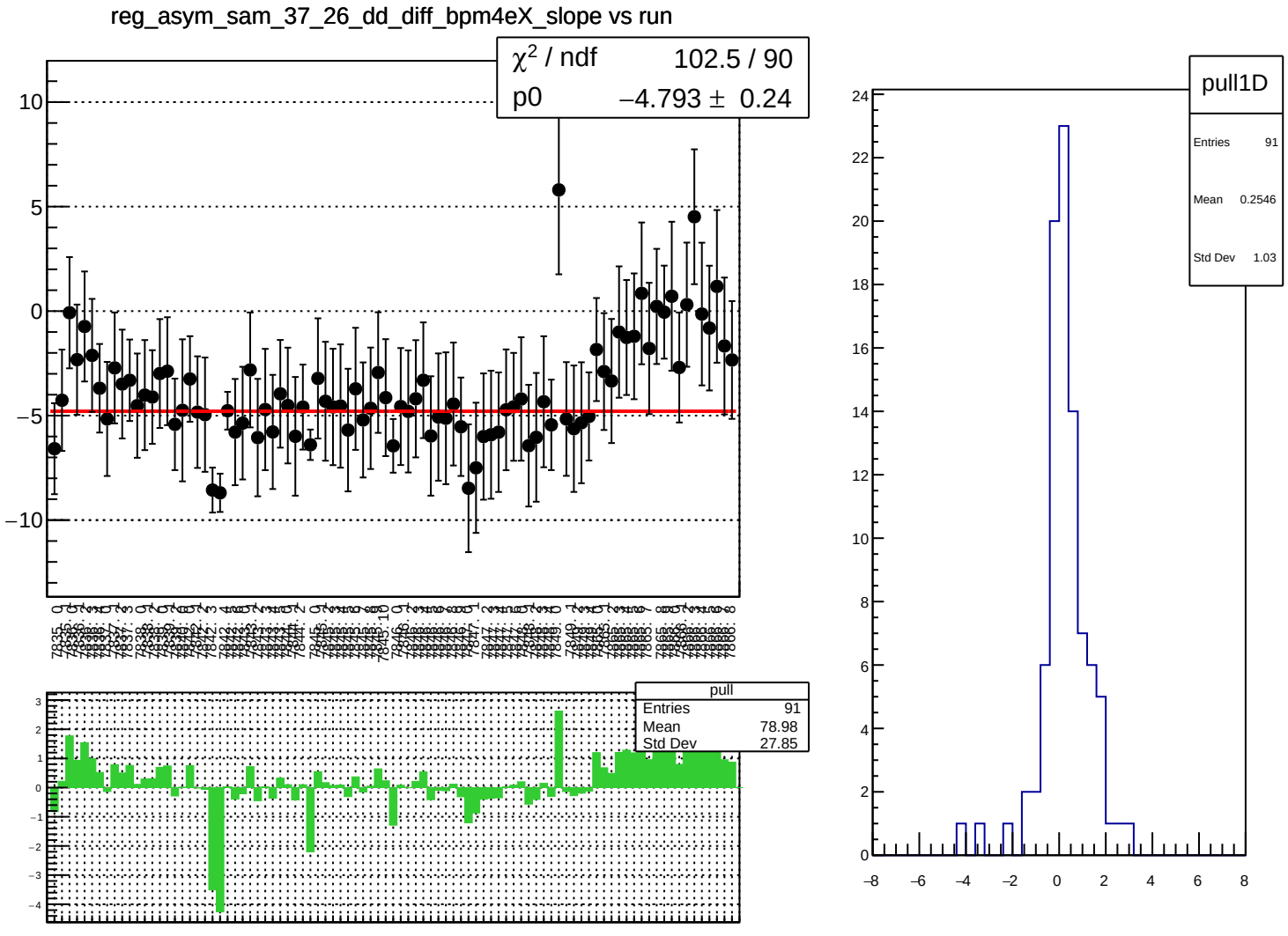

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.97 / 90
p0 20.92 ± 1.771
pull
Entries 91
Mean 24.22
Std Dev 0
pull1D
Entries 91
Mean −0.04403
Std Dev 0.5113

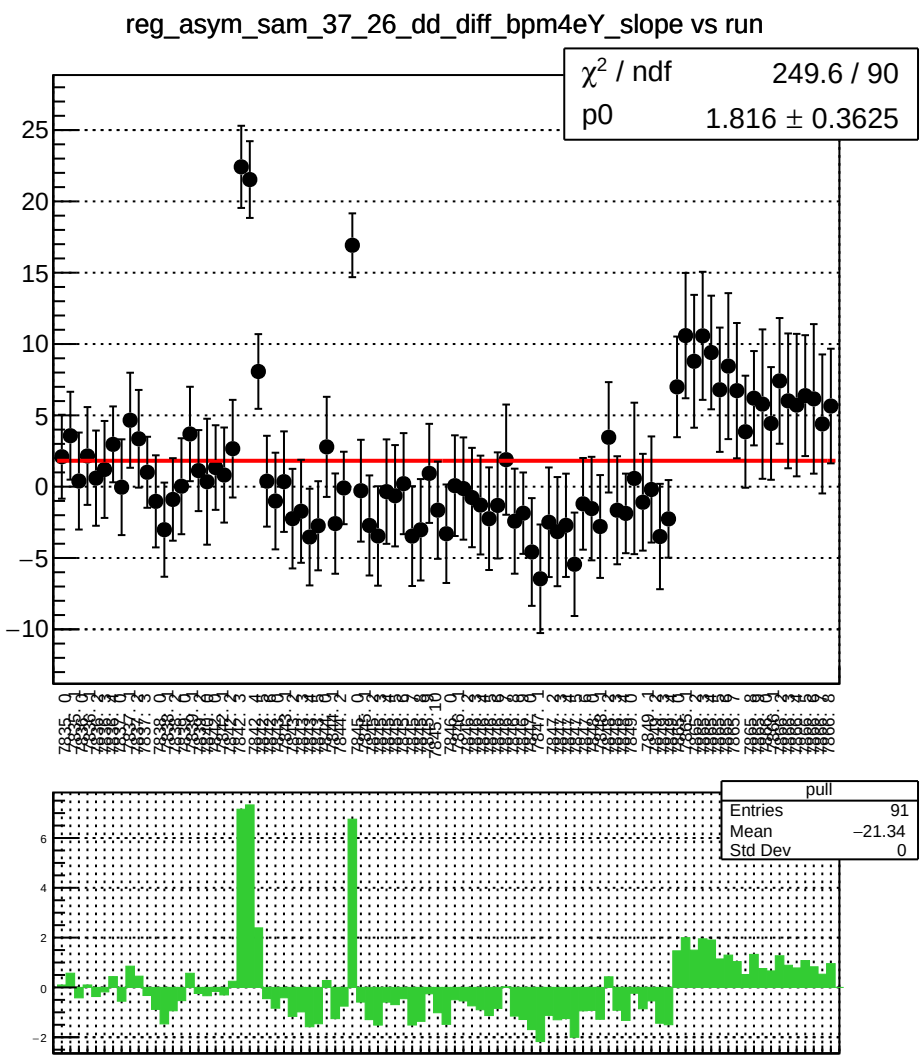

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 32.57 / 90
p0 −0.1037 ± 0.05328
pull
Entries 91
Mean 234.3
Std Dev 0
pull1D
Entries 91
Mean 0.05213
Std Dev 0.596

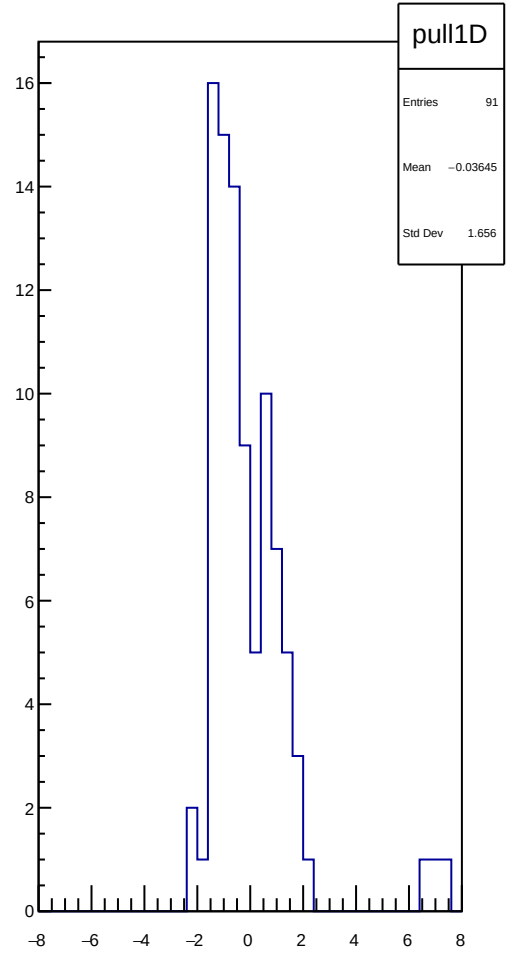

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 110.2 / 90
p0 −2.951 ± 0.2714
pull
Entries 91
Mean 91.12
Std Dev 0
pull1D
Entries 91
Mean −0.2509
Std Dev 1.071

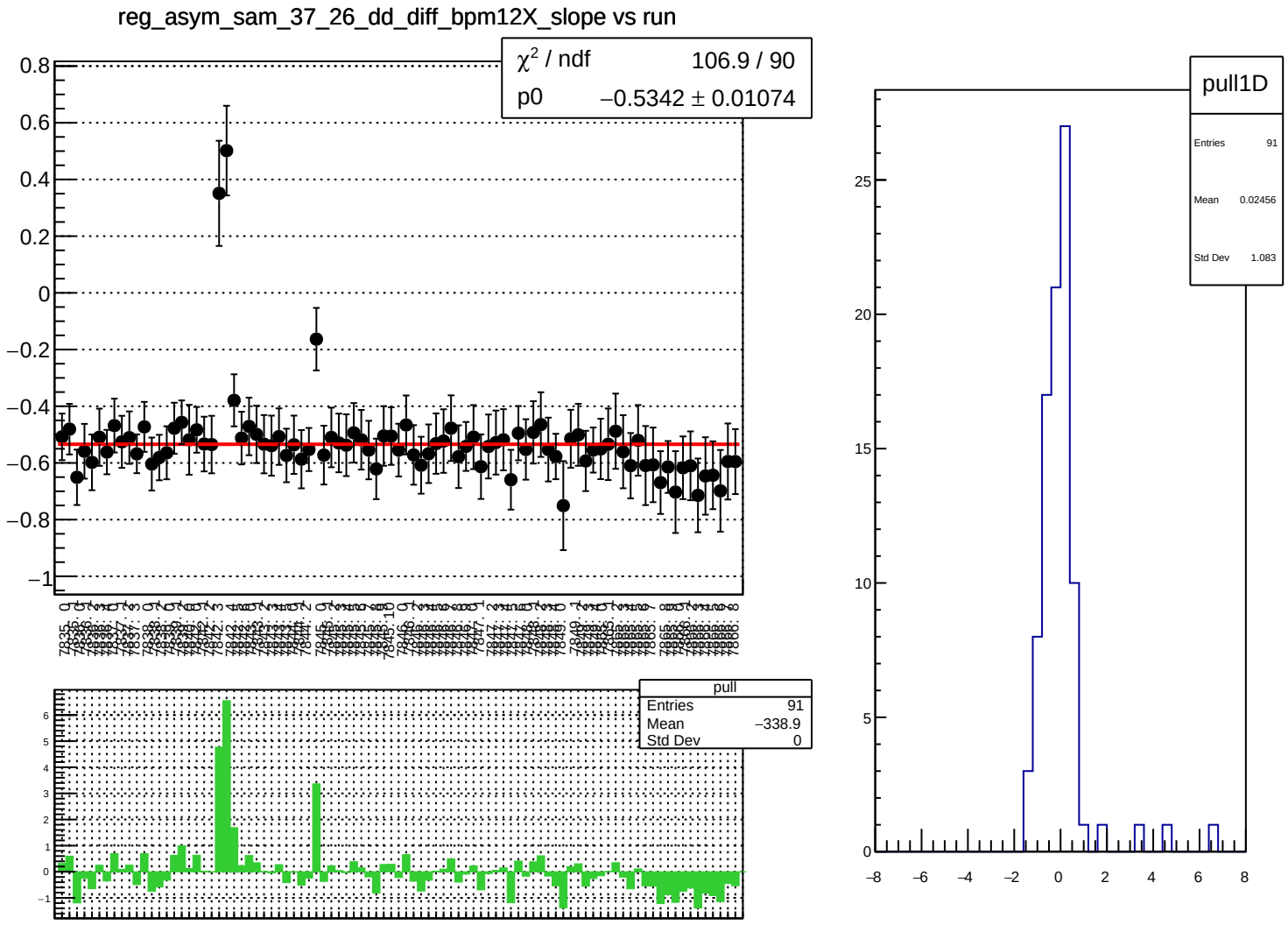

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 382.3 / 90
p0 17.27 ± 0.3159
pull
Entries 91
Mean 11.18
Std Dev 0

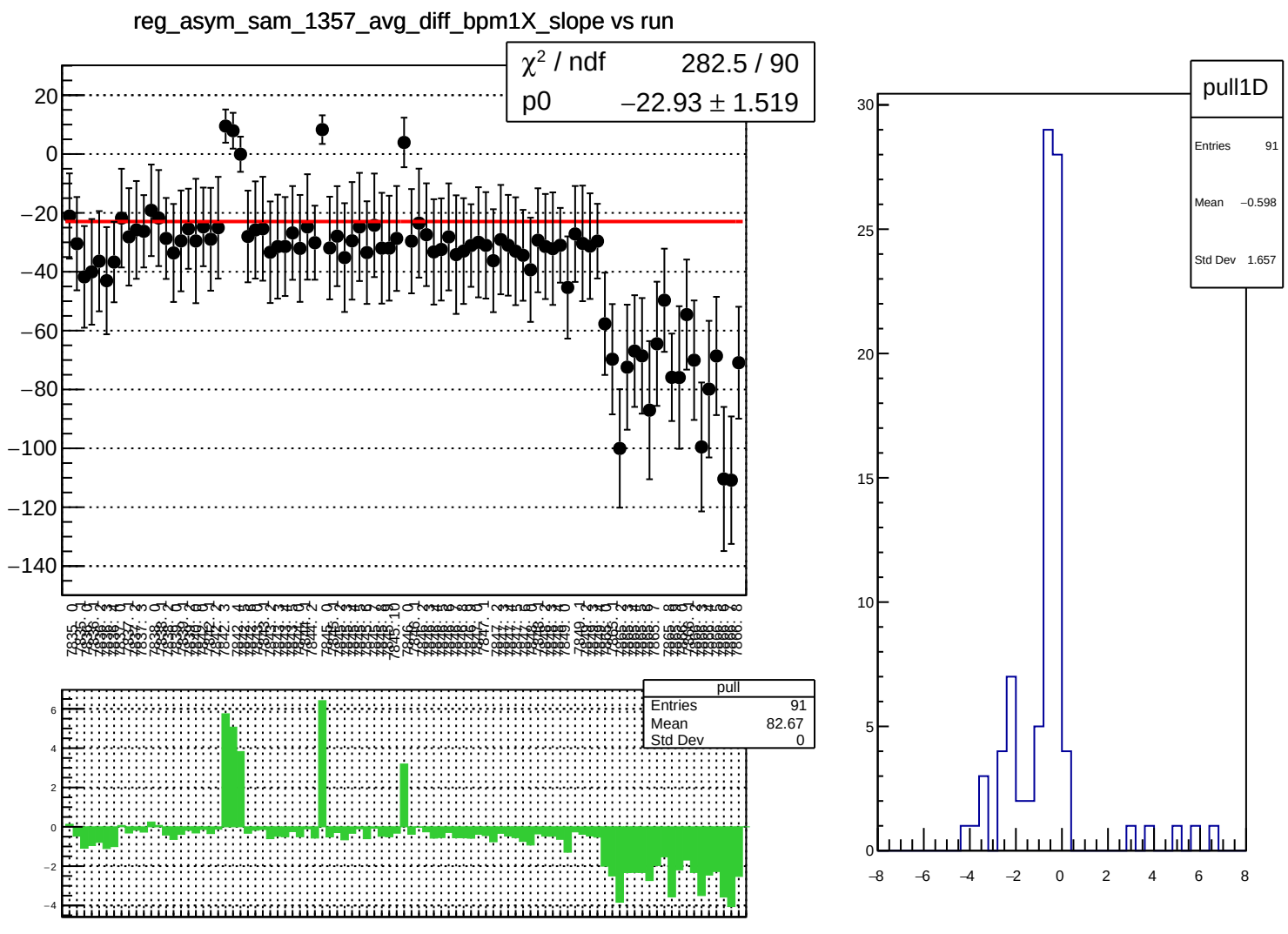

pull1D
Entries 91
Mean 0.4635
Std Dev 1.136

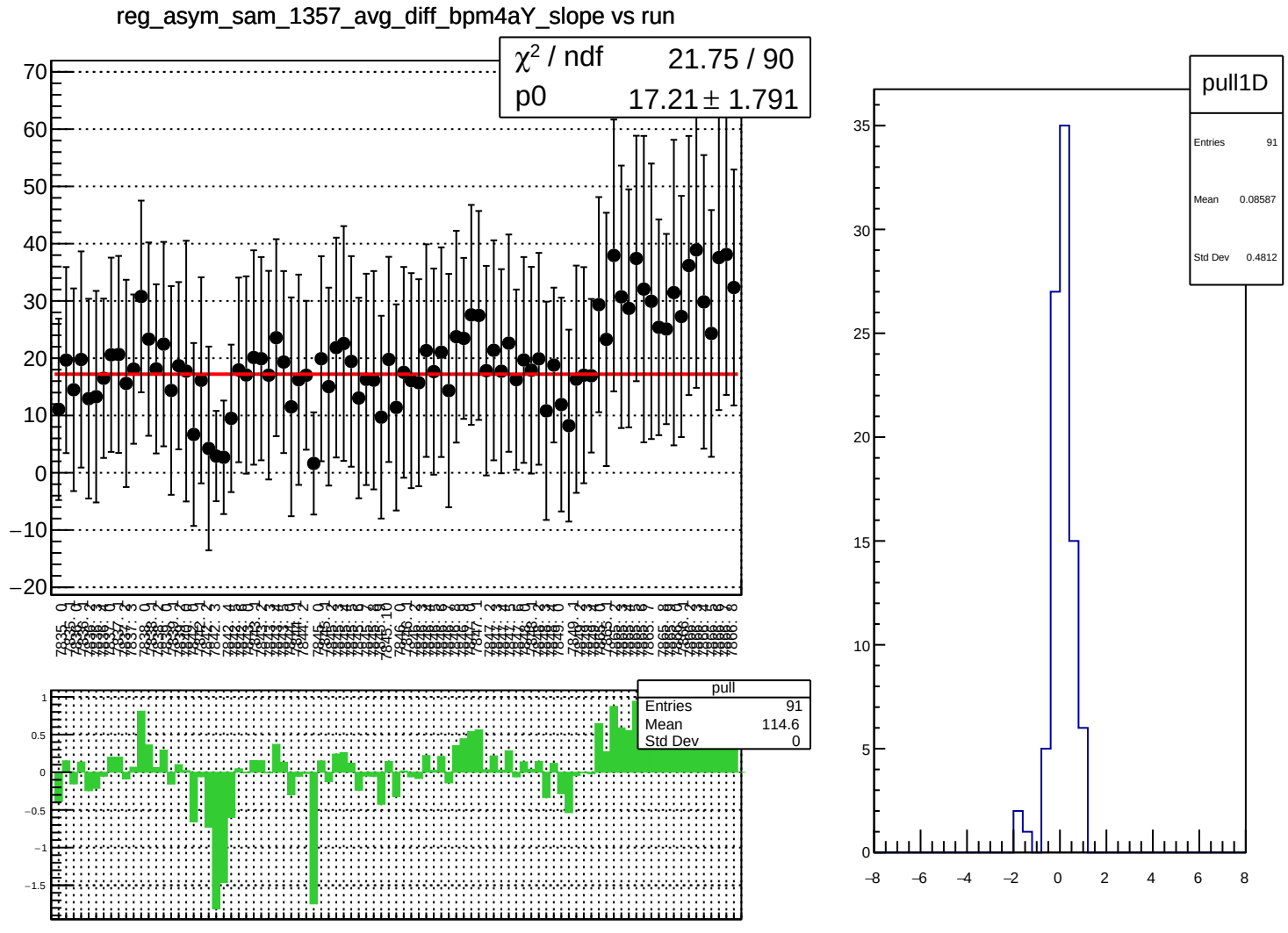

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.5 / 90
p0 −4.793 ± 0.24
pull
Entries 91
Mean 78.98
Std Dev 27.85
pull1D
Entries 91
Mean 0.2546
Std Dev 1.03

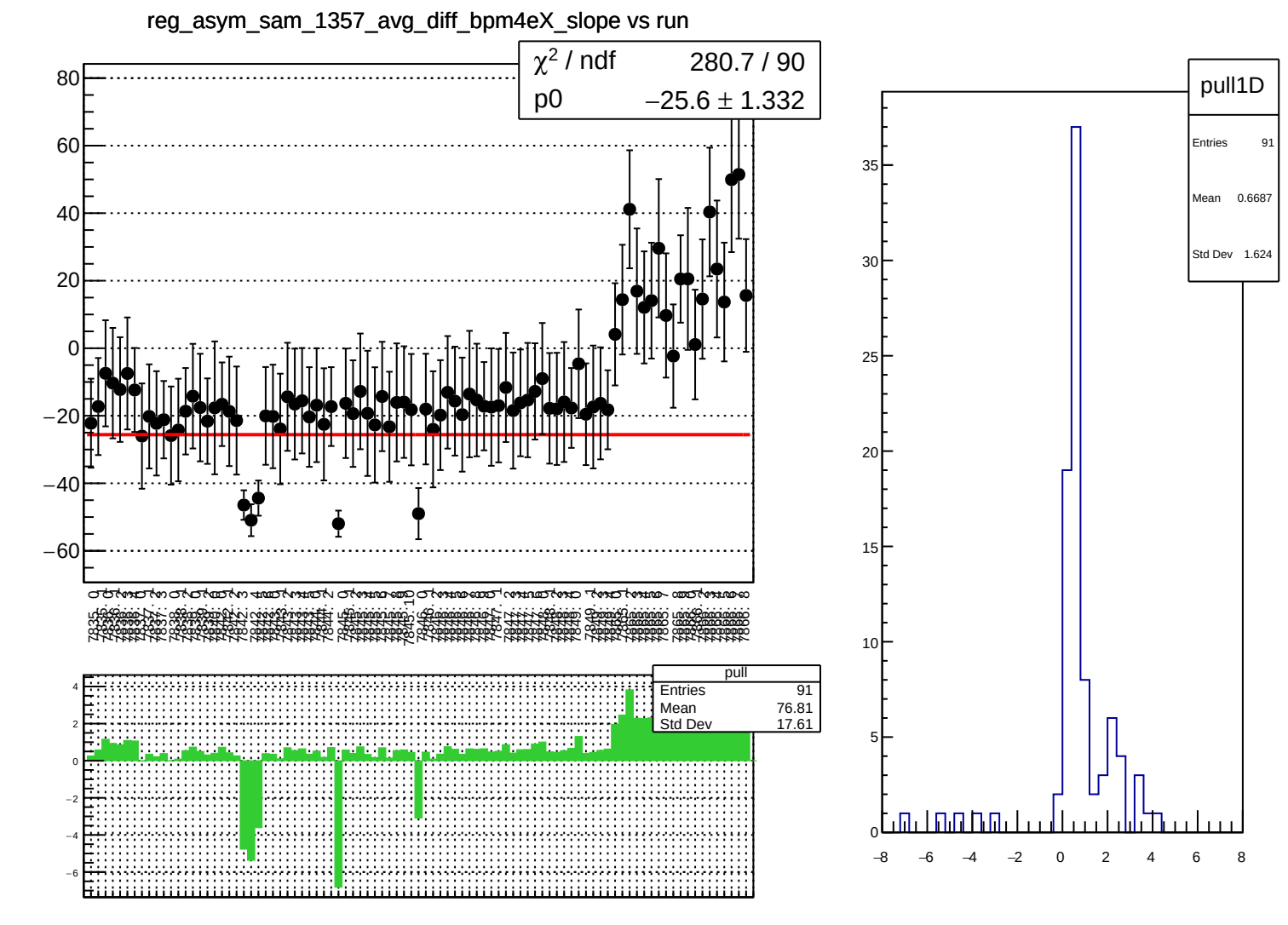

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 249.6 / 90
p0 1.816 ± 0.3625
pull
Entries 91
Mean −21.34
Std Dev 0

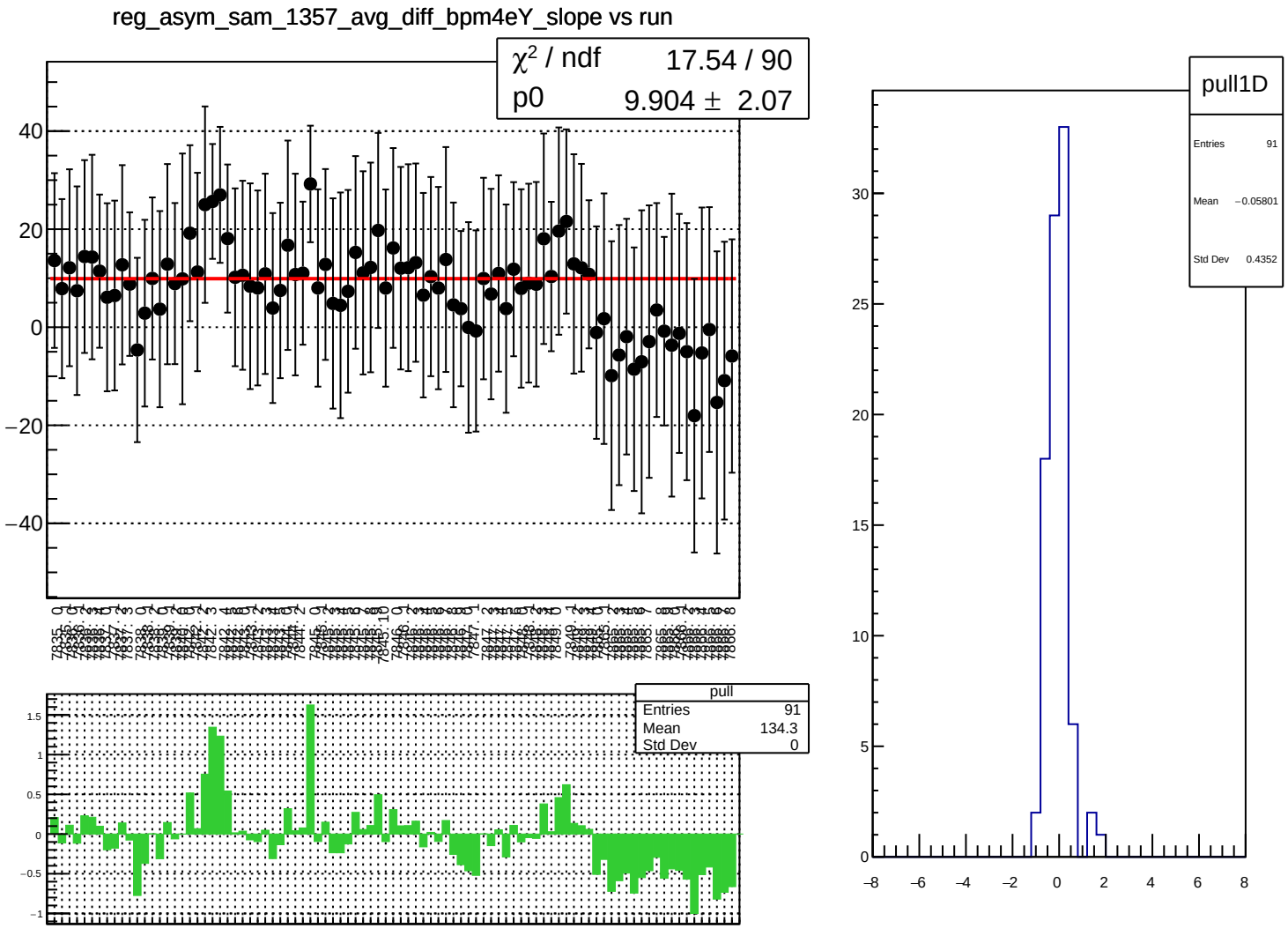

pull1D
Entries 91
Mean −0.03645
Std Dev 1.656

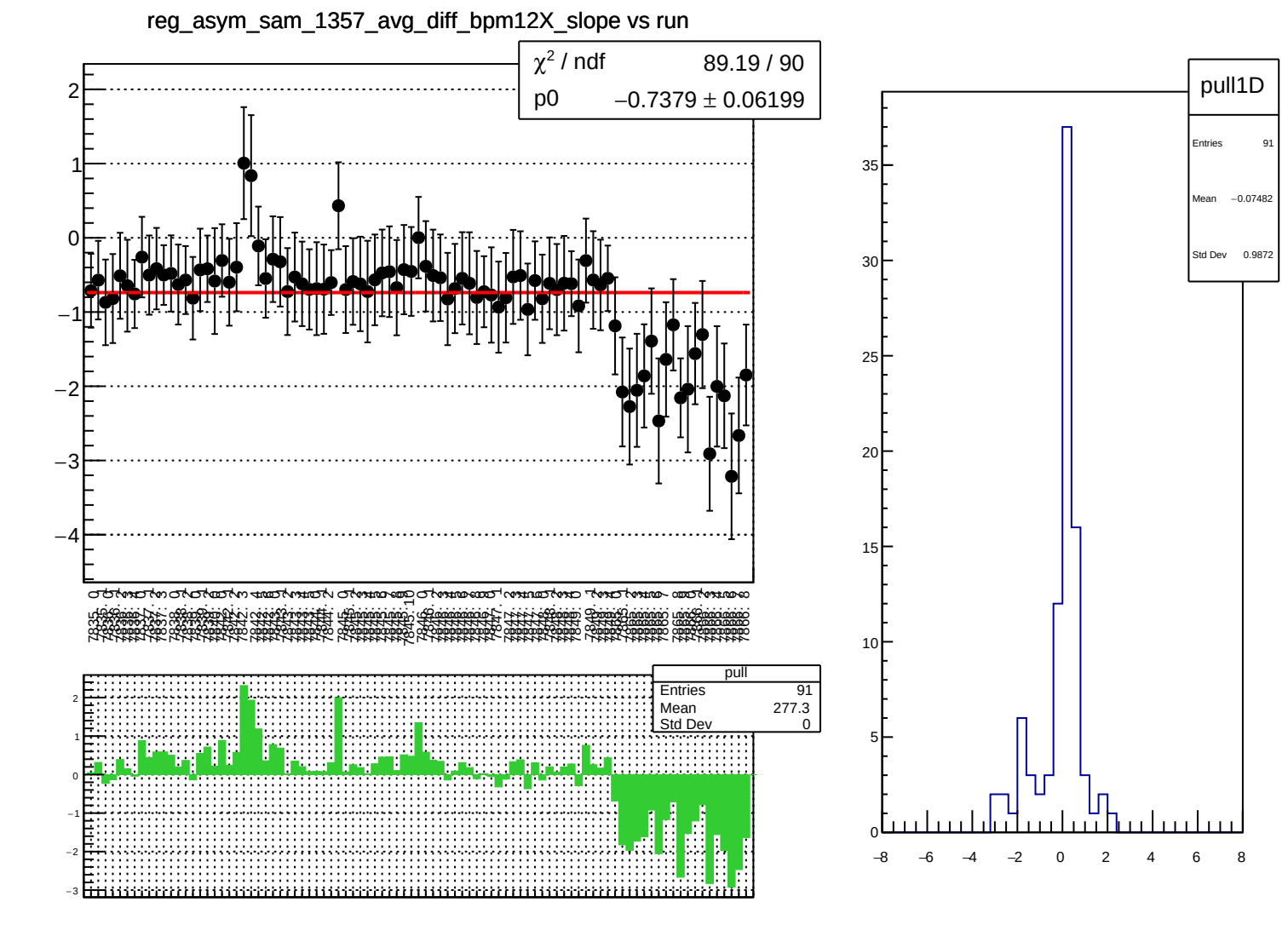

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 106.9 / 90
p0 −0.5342 ± 0.01074
pull
Entries 91
Mean −338.9
Std Dev 0
pull1D
Entries 91
Mean 0.02456
Std Dev 1.083

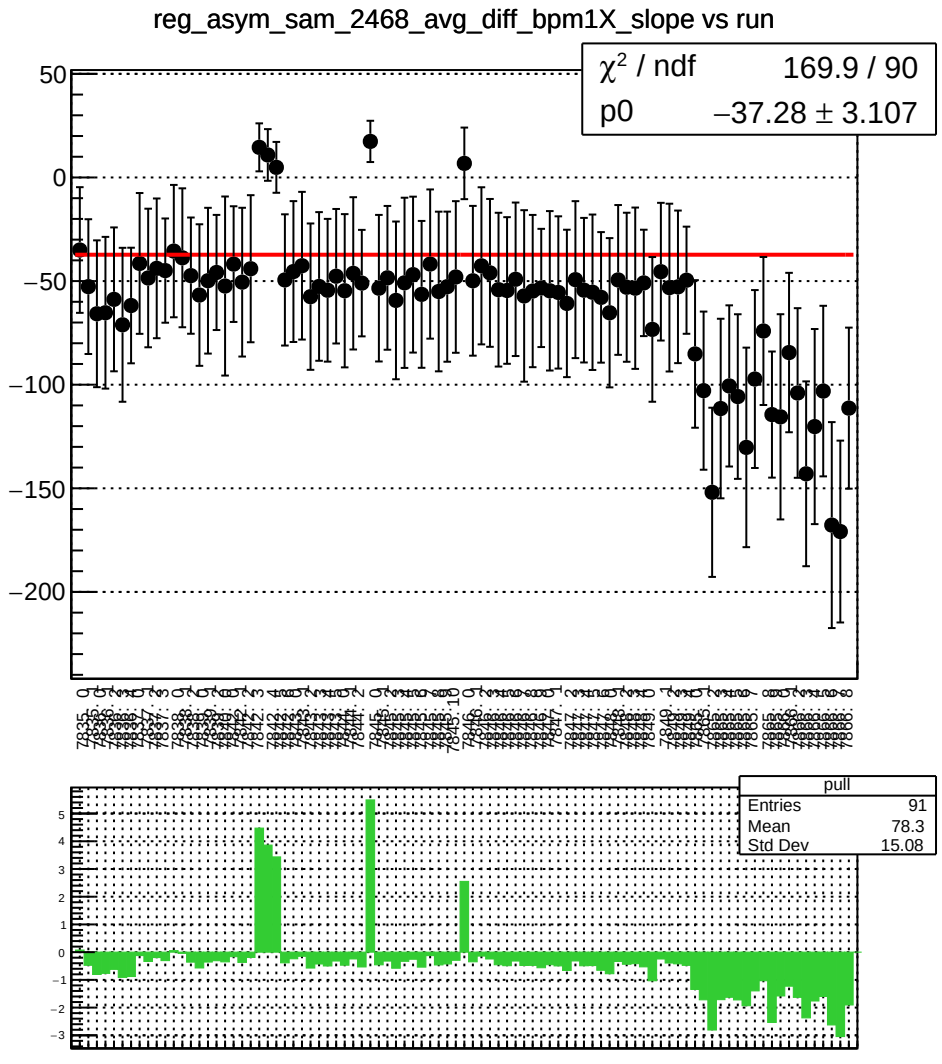

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 282.5 / 90
p0 −22.93 ± 1.519
pull
Entries 91
Mean 82.67
Std Dev 0
pull1D
Entries 91
Mean −0.598
Std Dev 1.657

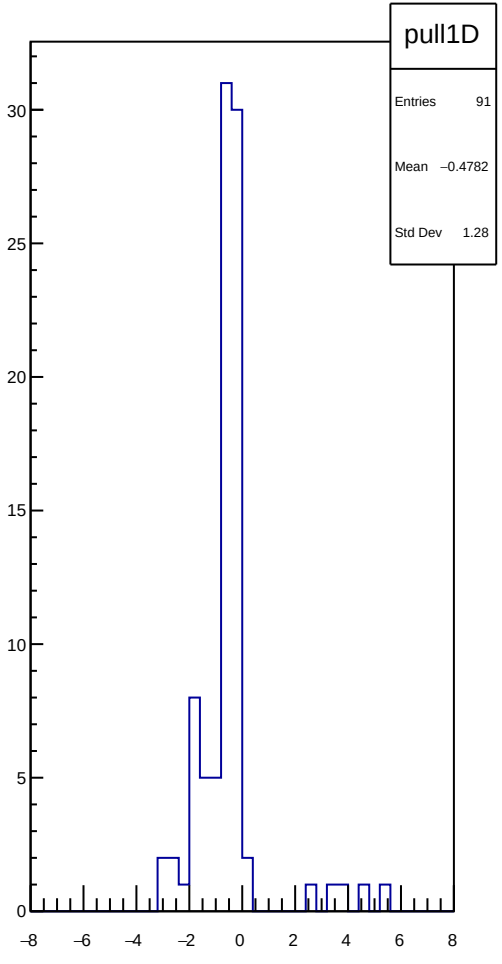

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.75 / 90
p0 17.21 ± 1.791
pull
Entries 91
Mean 114.6
Std Dev 0
pull1D
Entries 91
Mean 0.08587
Std Dev 0.4812

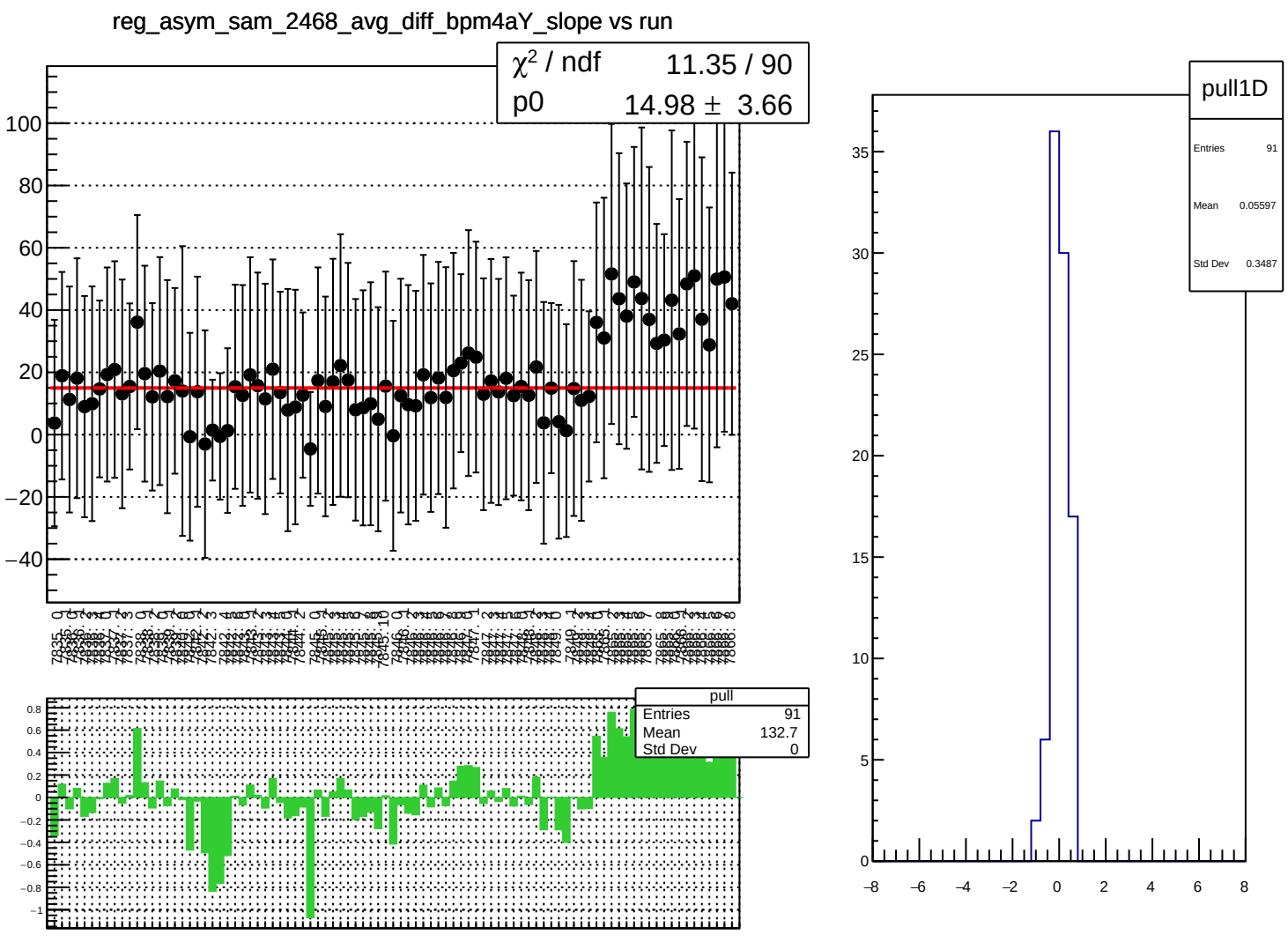

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 280.7 / 90
p0 −25.6 ± 1.332
pull
Entries 91
Mean 76.81
Std Dev 17.61
pull1D
Entries 91
Mean 0.6687
Std Dev 1.624

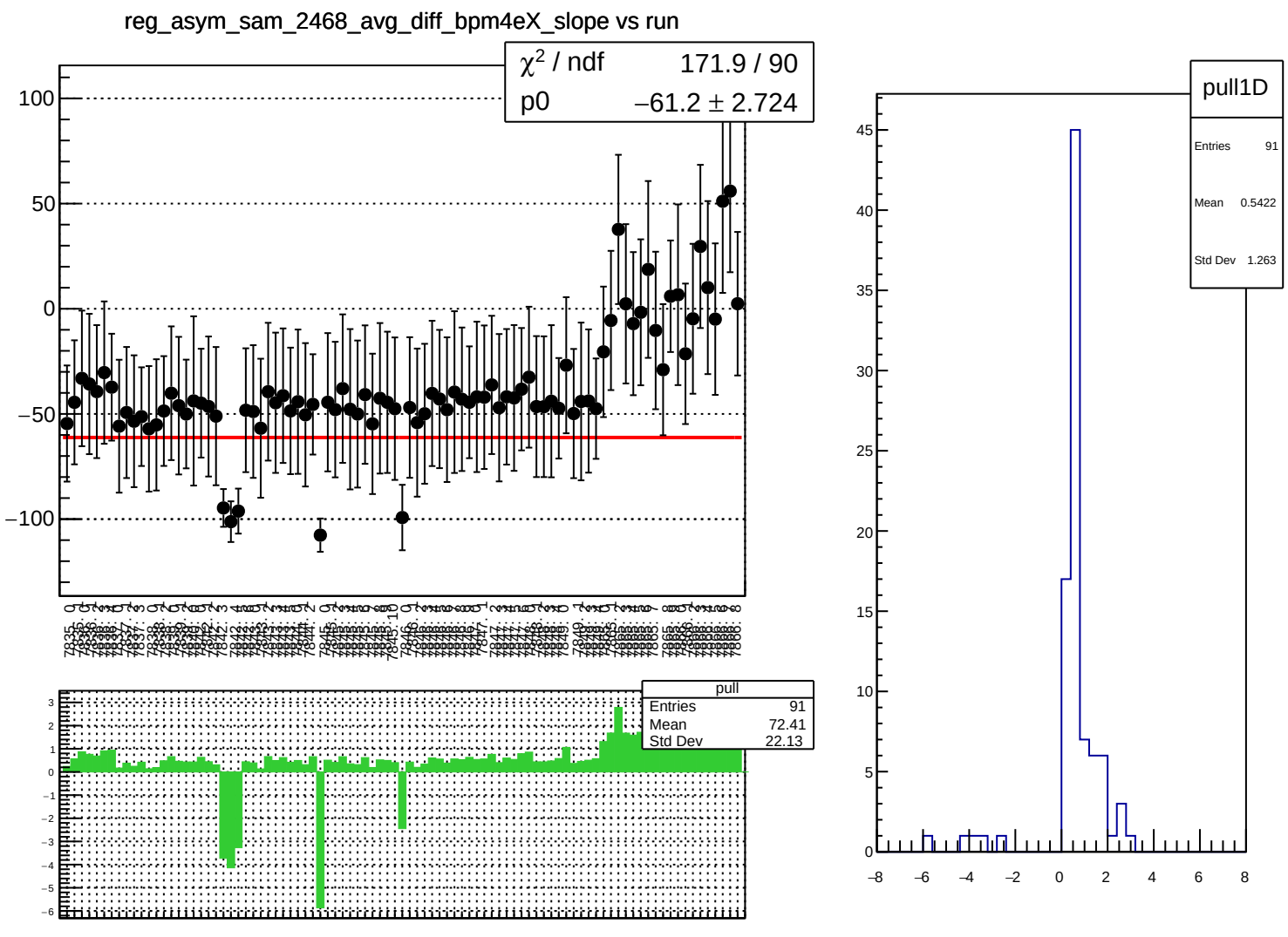

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 90
p0 9.904 ± 2.07
pull
Entries 91
Mean 134.3
Std Dev 0
pull1D
Entries 91
Mean −0.05801
Std Dev 0.4352

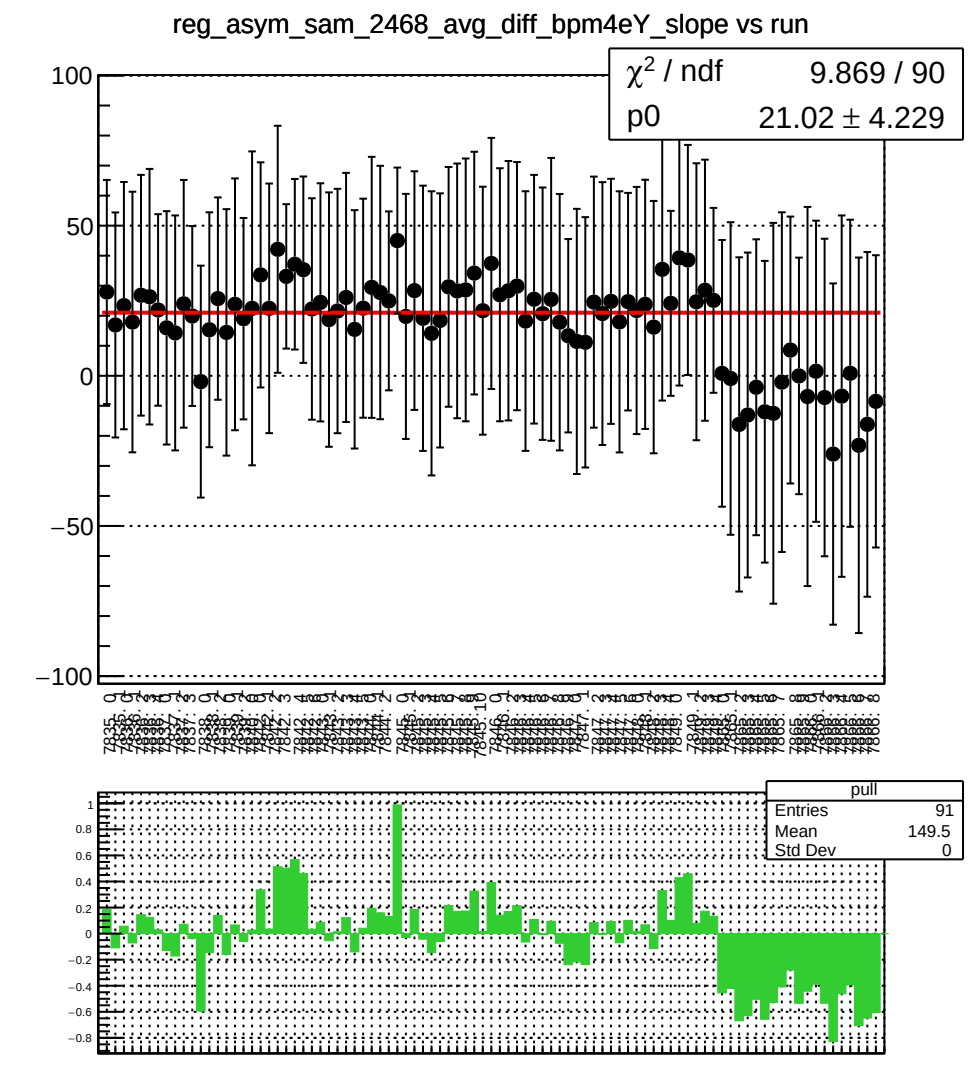

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 89.19 / 90
p0 −0.7379 ± 0.06199
pull
Entries 91
Mean 277.3
Std Dev 0
pull1D
Entries 91
Mean −0.07482
Std Dev 0.9872

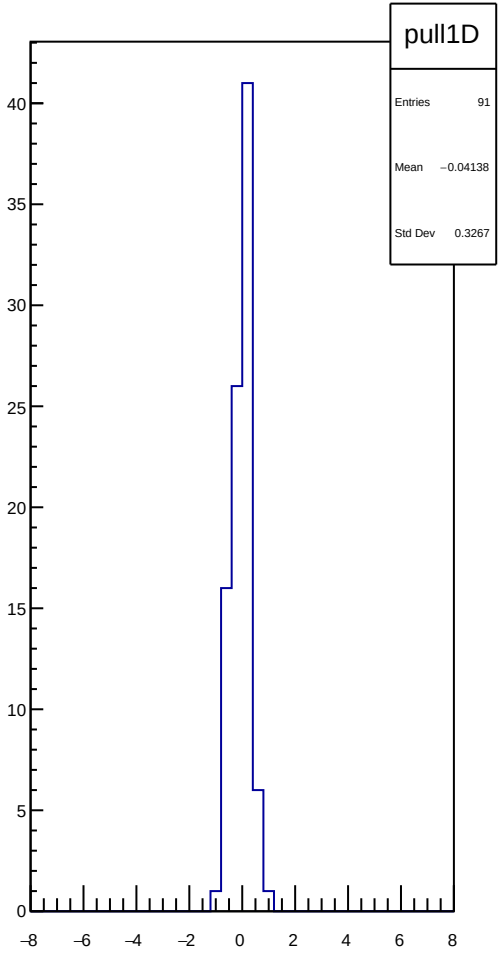

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 169.9 / 90
p0 −37.28 ± 3.107
pull
Entries 91
Mean 78.3
Std Dev 15.08

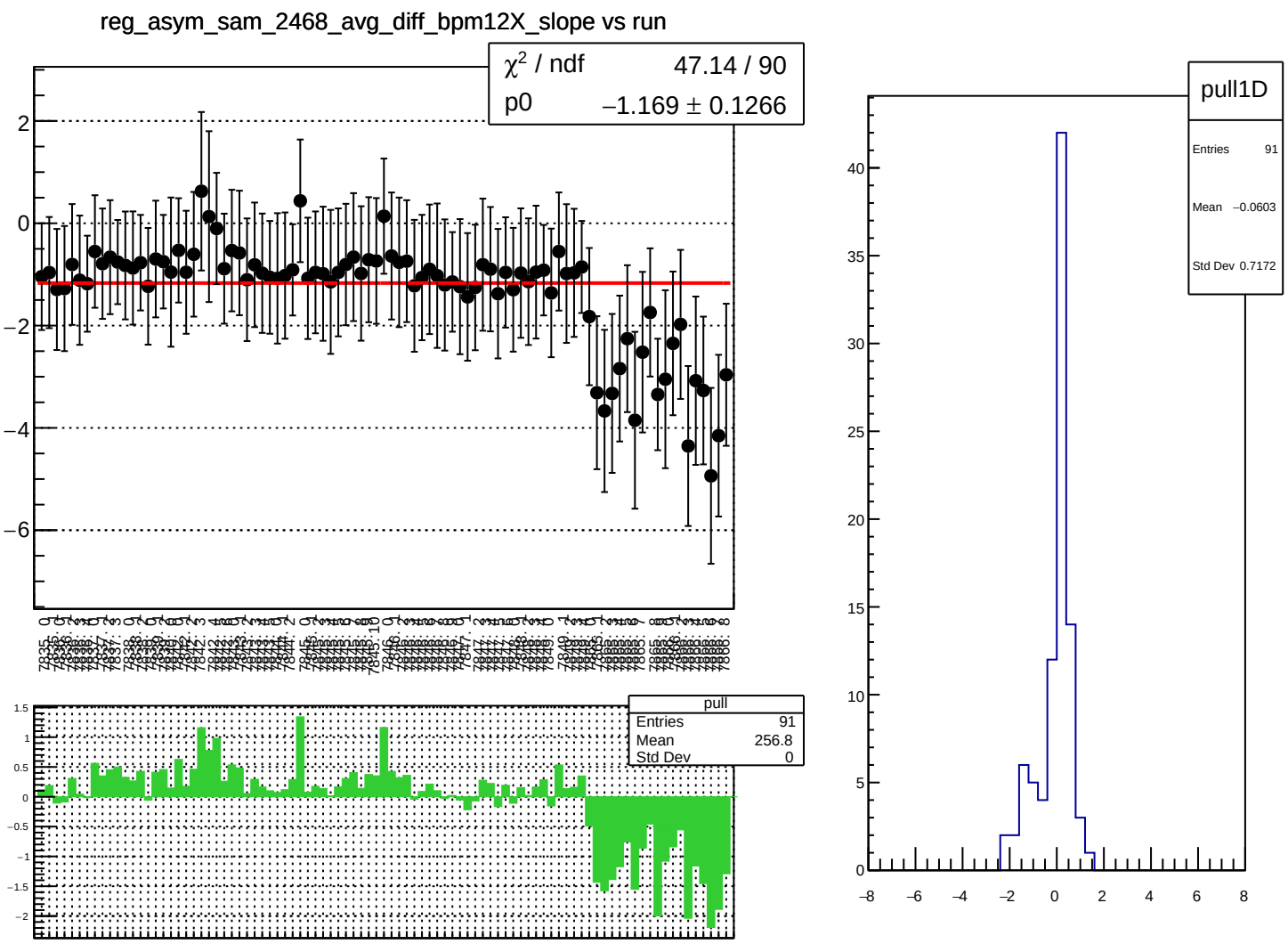

pull1D
Entries 91
Mean −0.4782
Std Dev 1.28

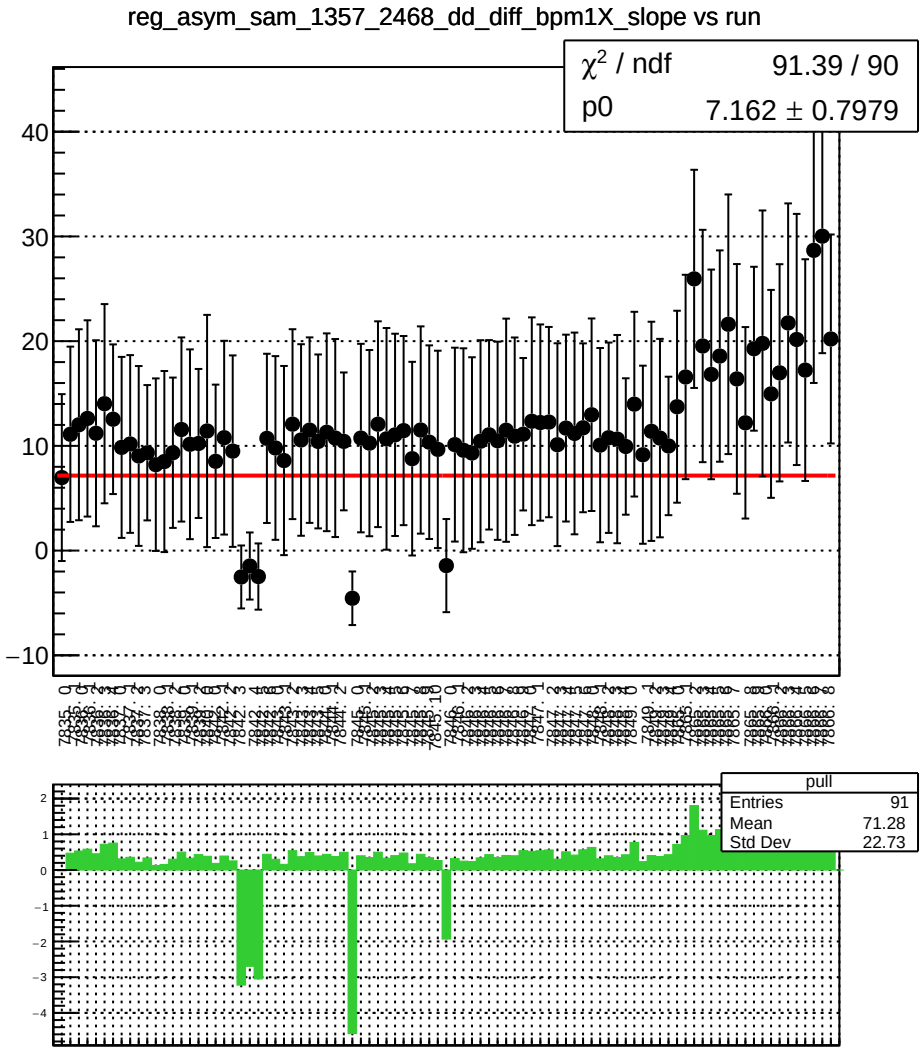

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.35 / 90
p0 14.98 ± 3.66
pull
Entries 91
Mean 132.7
Std Dev 0
pull1D
Entries 91
Mean 0.05597
Std Dev 0.3487

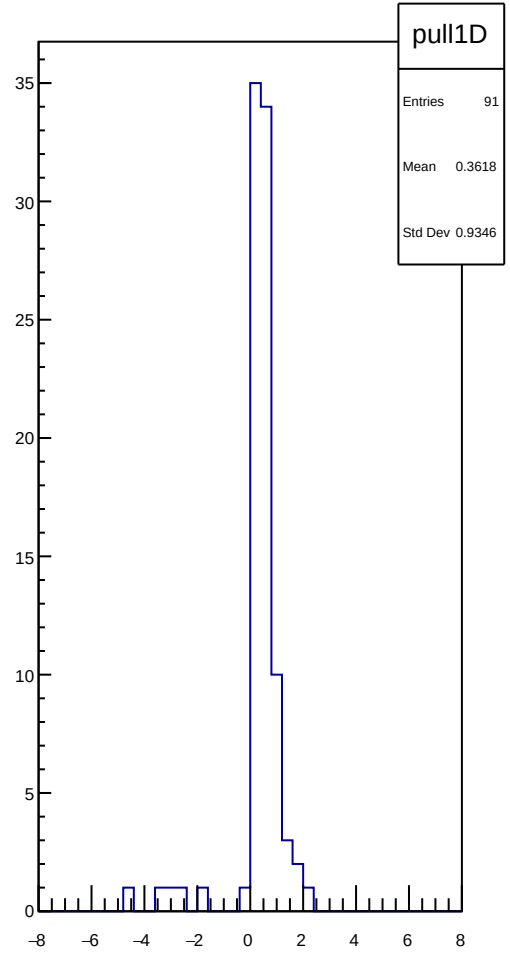

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 171.9 / 90
p0 −61.2 ± 2.724
pull
Entries 91
Mean 72.41
Std Dev 22.13
pull1D
Entries 91
Mean 0.5422
Std Dev 1.263

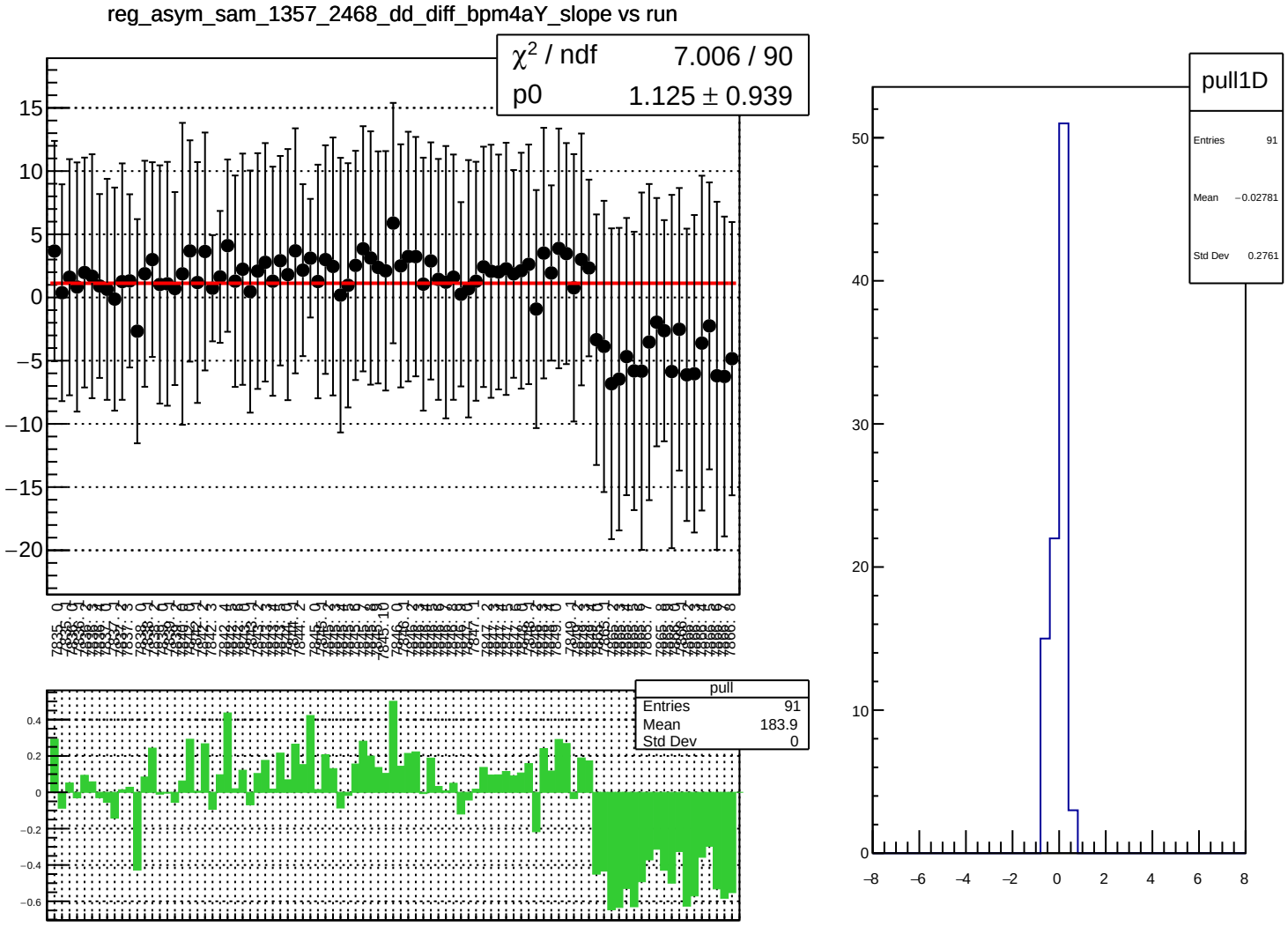

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.869 / 90
p0 21.02 ± 4.229
pull
Entries 91
Mean 149.5
Std Dev 0

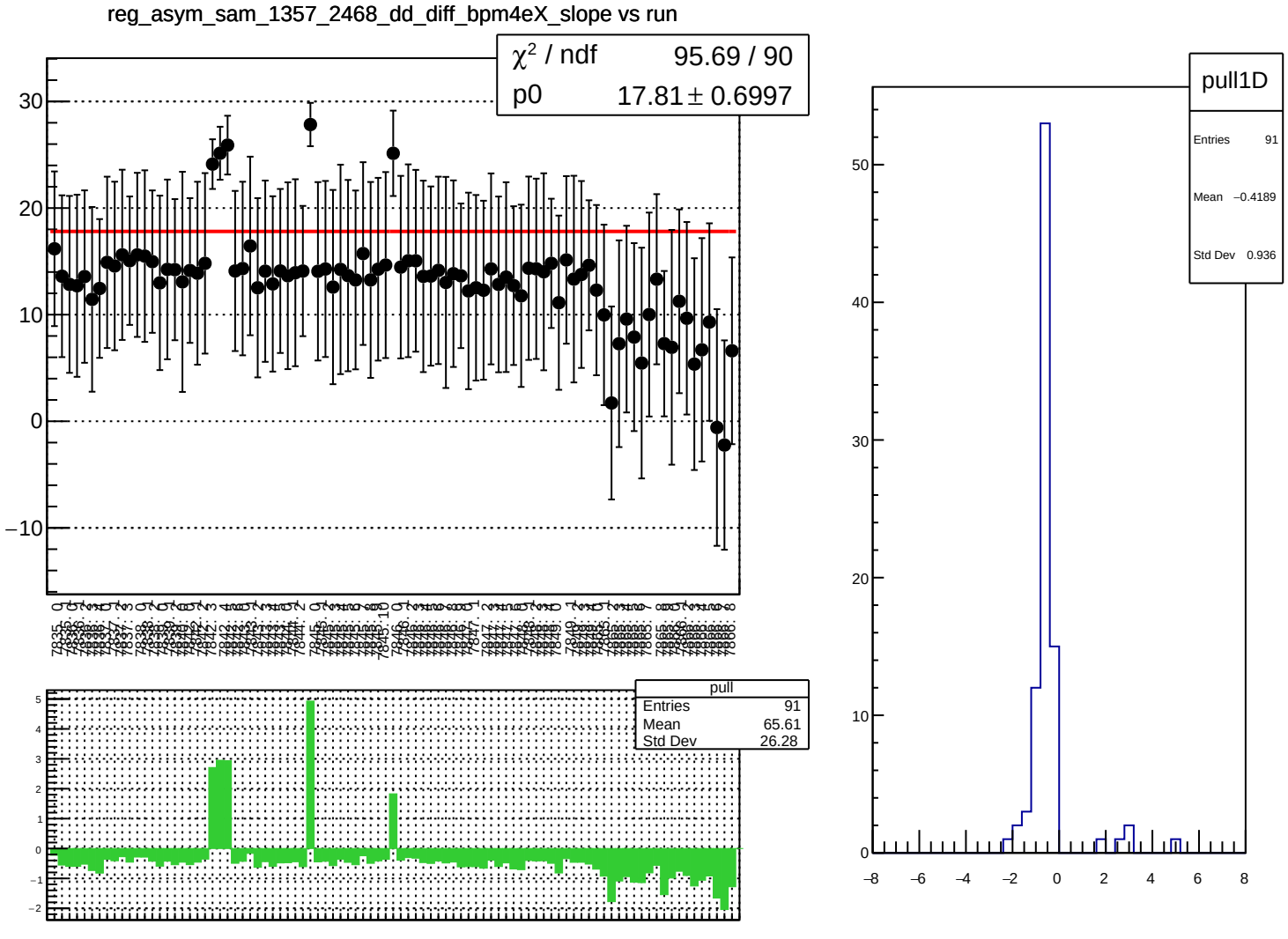

pull1D
Entries 91
Mean −0.04138
Std Dev 0.3267

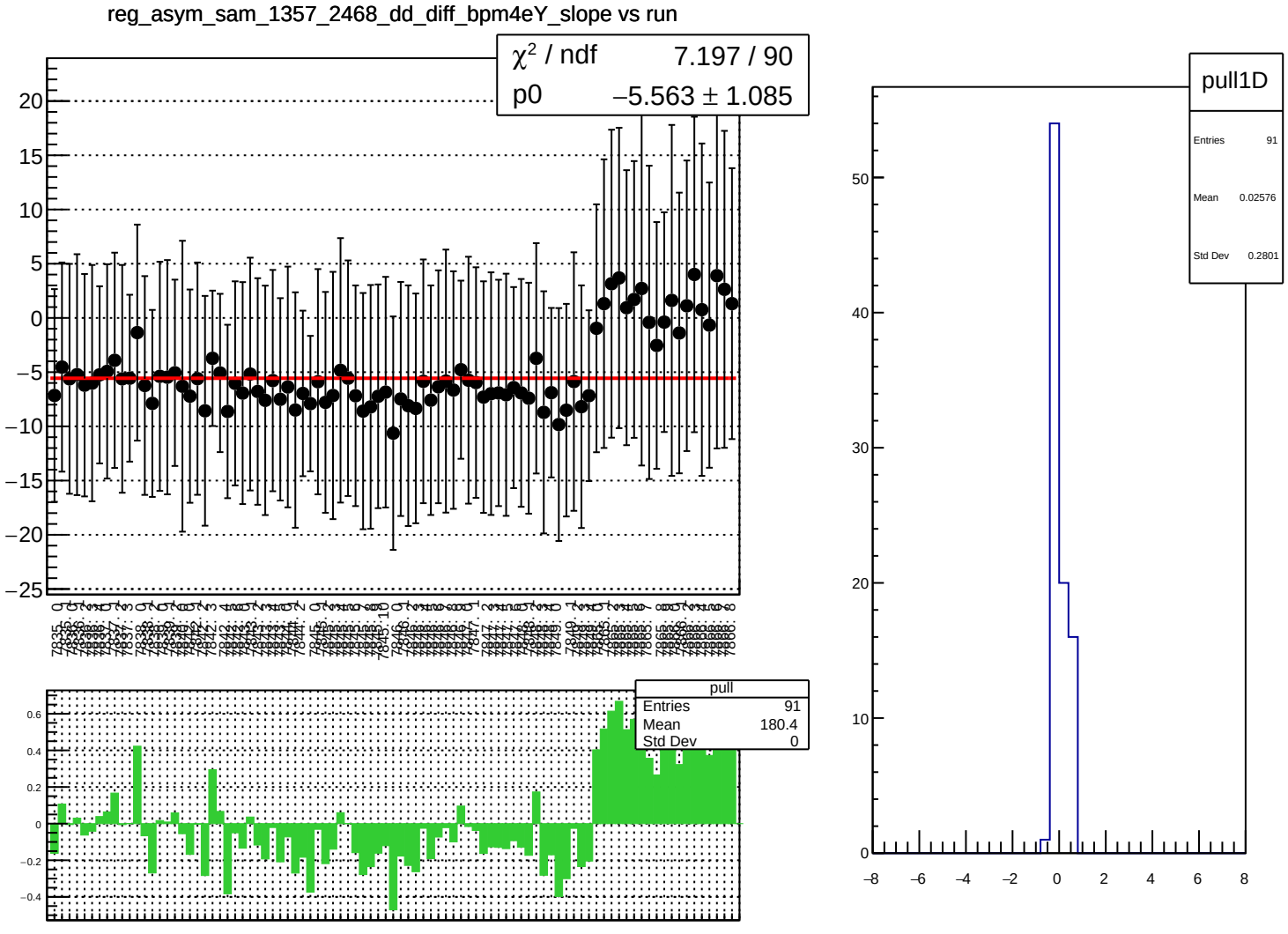

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 47.14 / 90
p0 −1.169 ± 0.1266
pull
Entries 91
Mean 256.8
Std Dev 0
pull1D
Entries 91
Mean −0.0603
Std Dev 0.7172

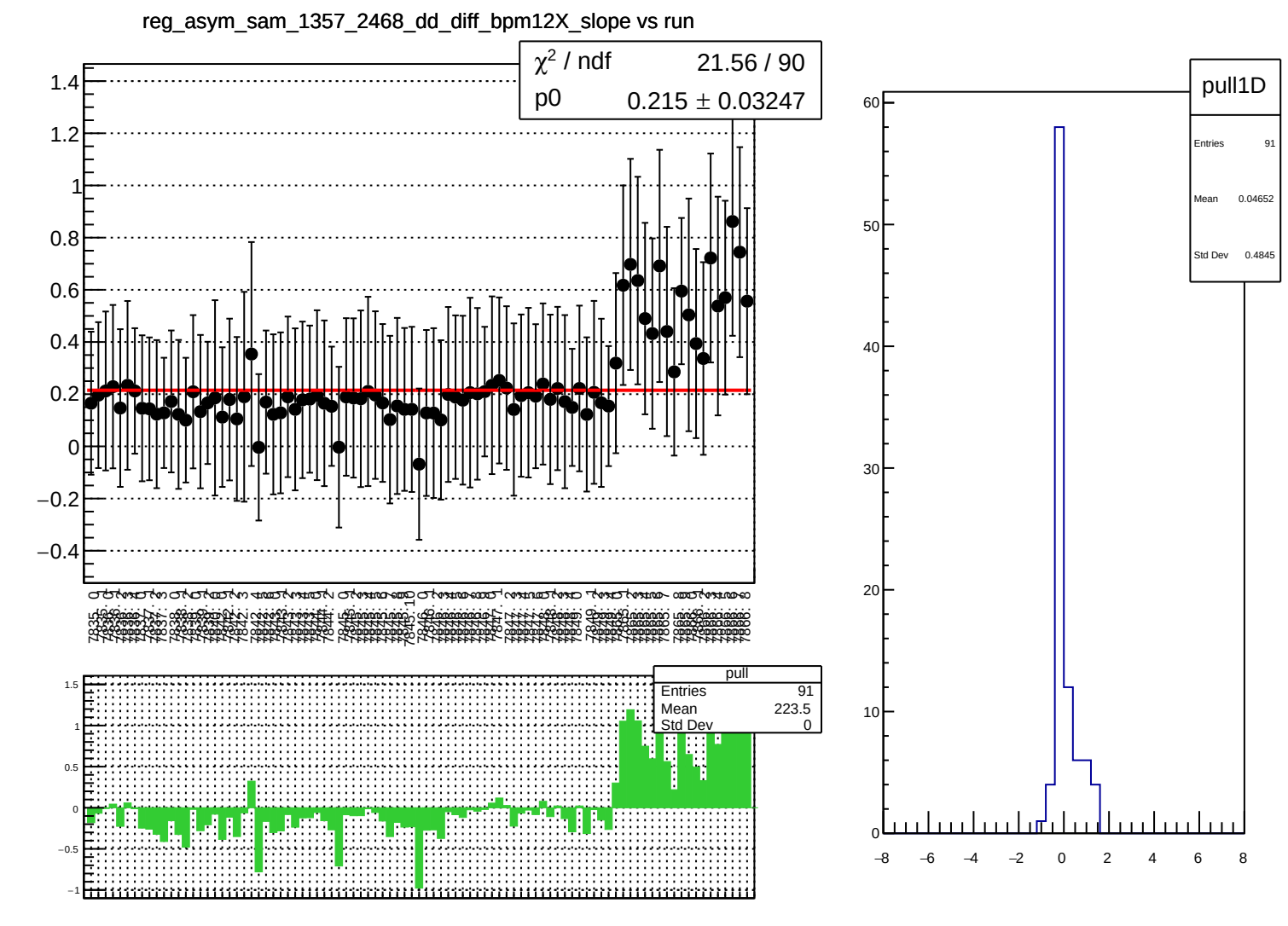

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 91.39 / 90
p0 7.162 ± 0.7979
pull
Entries 91
Mean 71.28
Std Dev 22.73

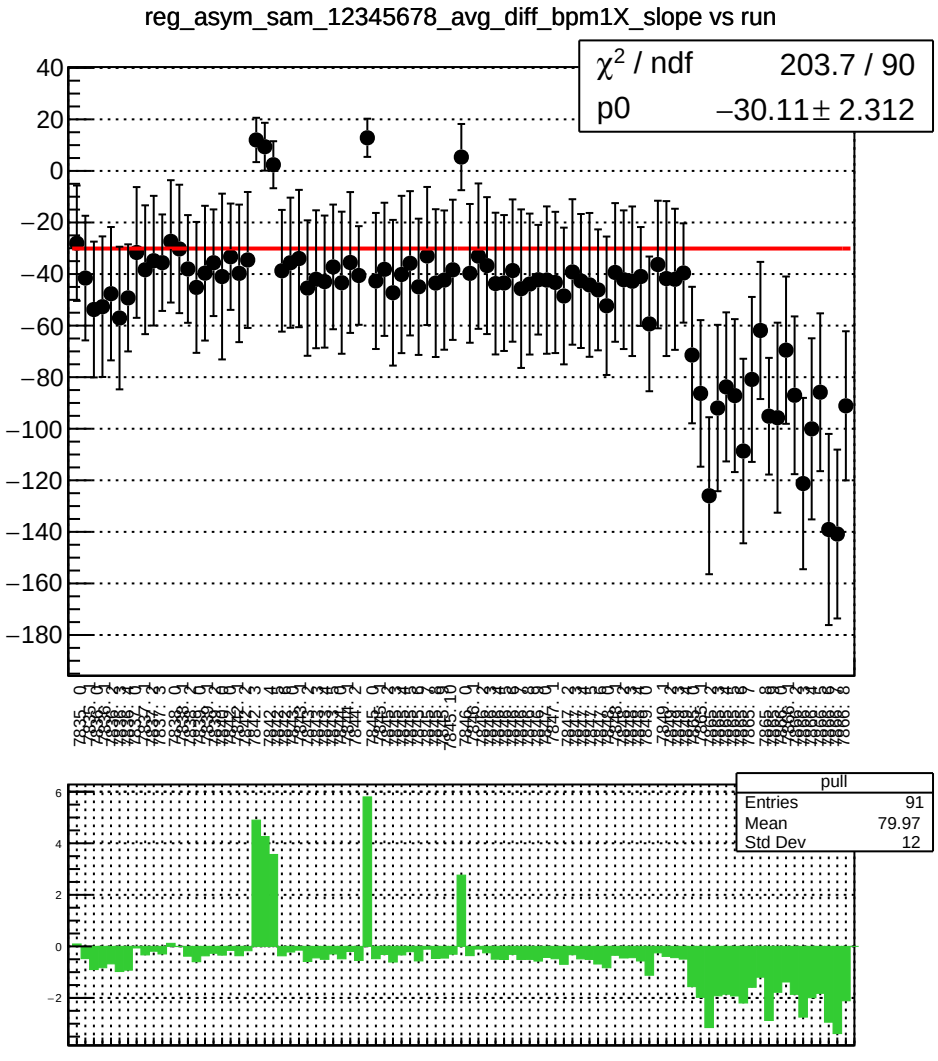

pull1D
Entries 91
Mean 0.3618
Std Dev 0.9346

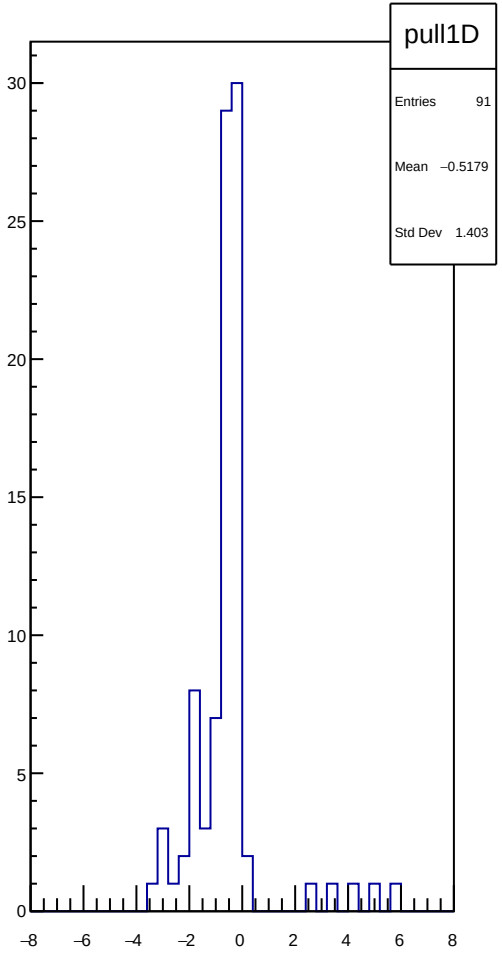

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.006 / 90
p0 1.125 ± 0.939
pull
Entries 91
Mean 183.9
Std Dev 0
pull1D
Entries 91
Mean −0.02781
Std Dev 0.2761

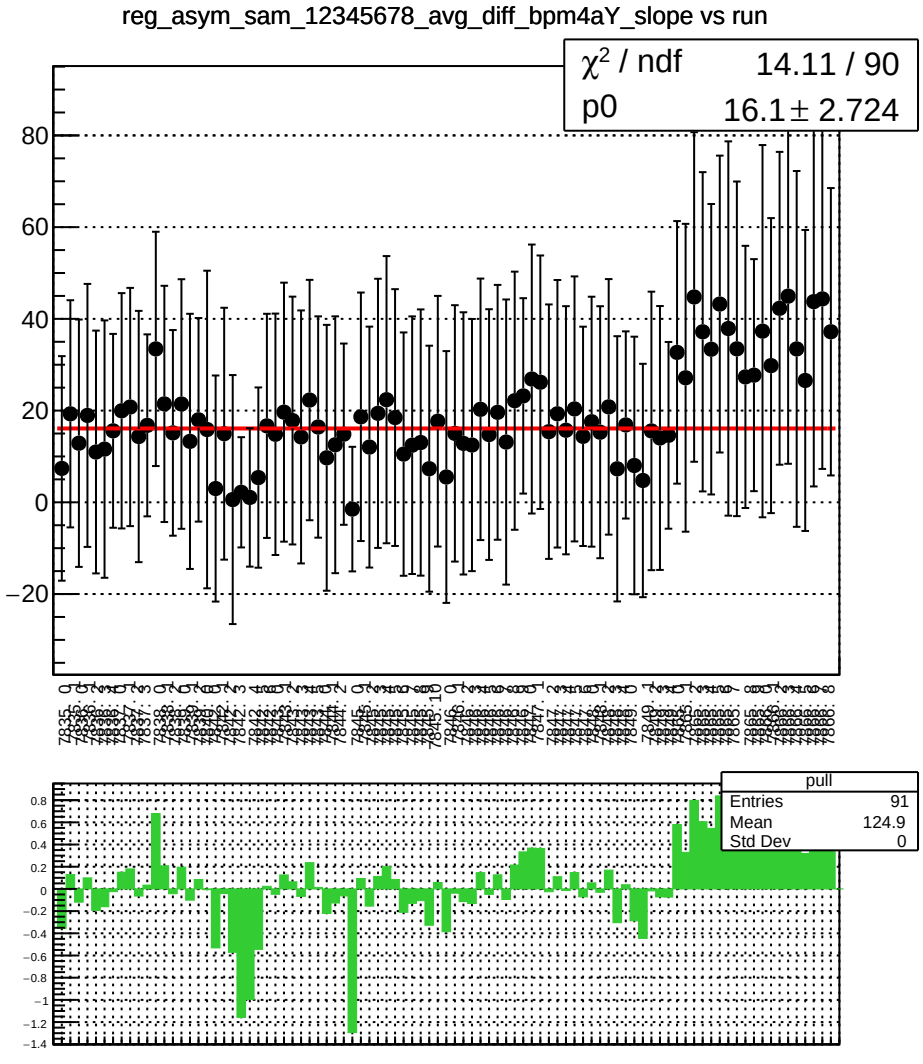

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.69 / 90
p0 17.81 ± 0.6997
pull
Entries 91
Mean 65.61
Std Dev 26.28
pull1D
Entries 91
Mean −0.4189
Std Dev 0.936

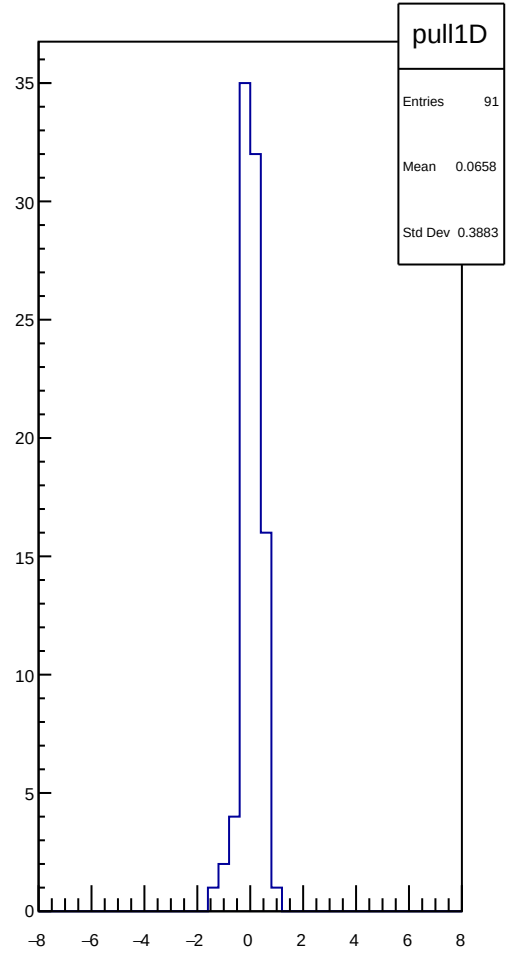

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.197 / 90
p0 −5.563 ± 1.085
pull
Entries 91
Mean 180.4
Std Dev 0
pull1D
Entries 91
Mean 0.02576
Std Dev 0.2801

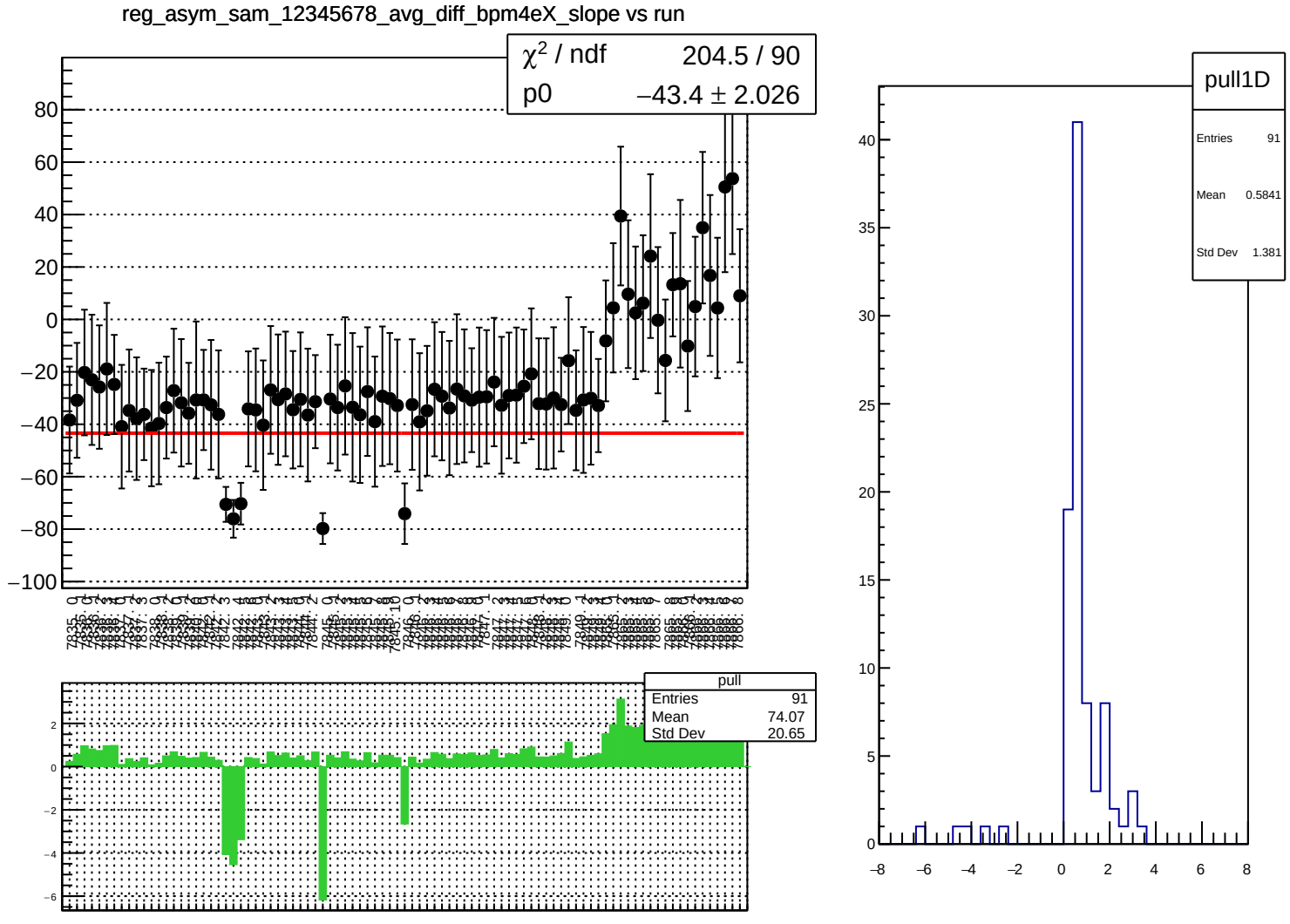

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 21.56 / 90
p0 0.215 ± 0.03247
pull
Entries 91
Mean 223.5
Std Dev 0
pull1D
Entries 91
Mean 0.04652
Std Dev 0.4845

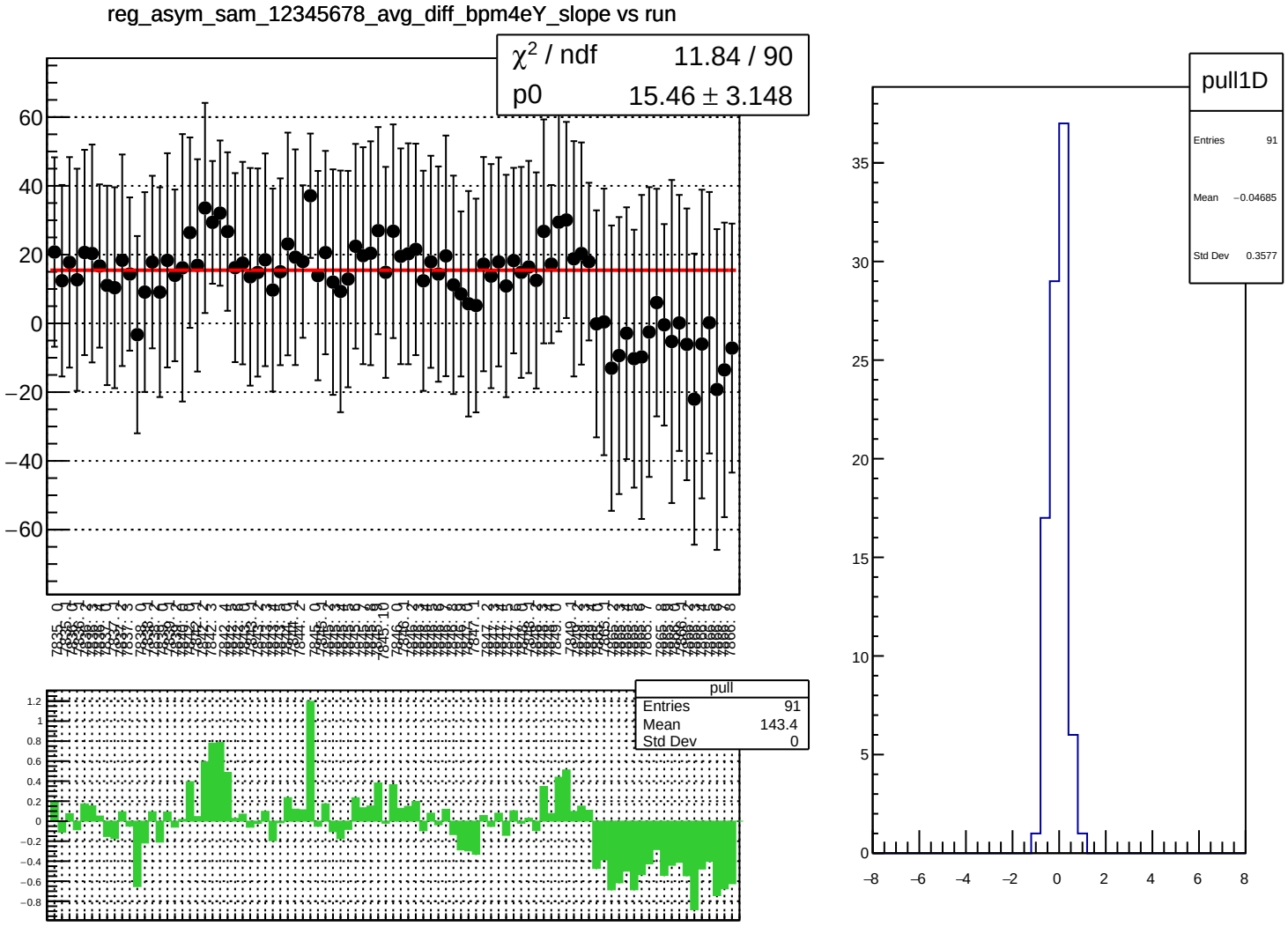

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 203.7 / 90
p0 −30.11 ± 2.312
pull
Entries 91
Mean 79.97
Std Dev 12

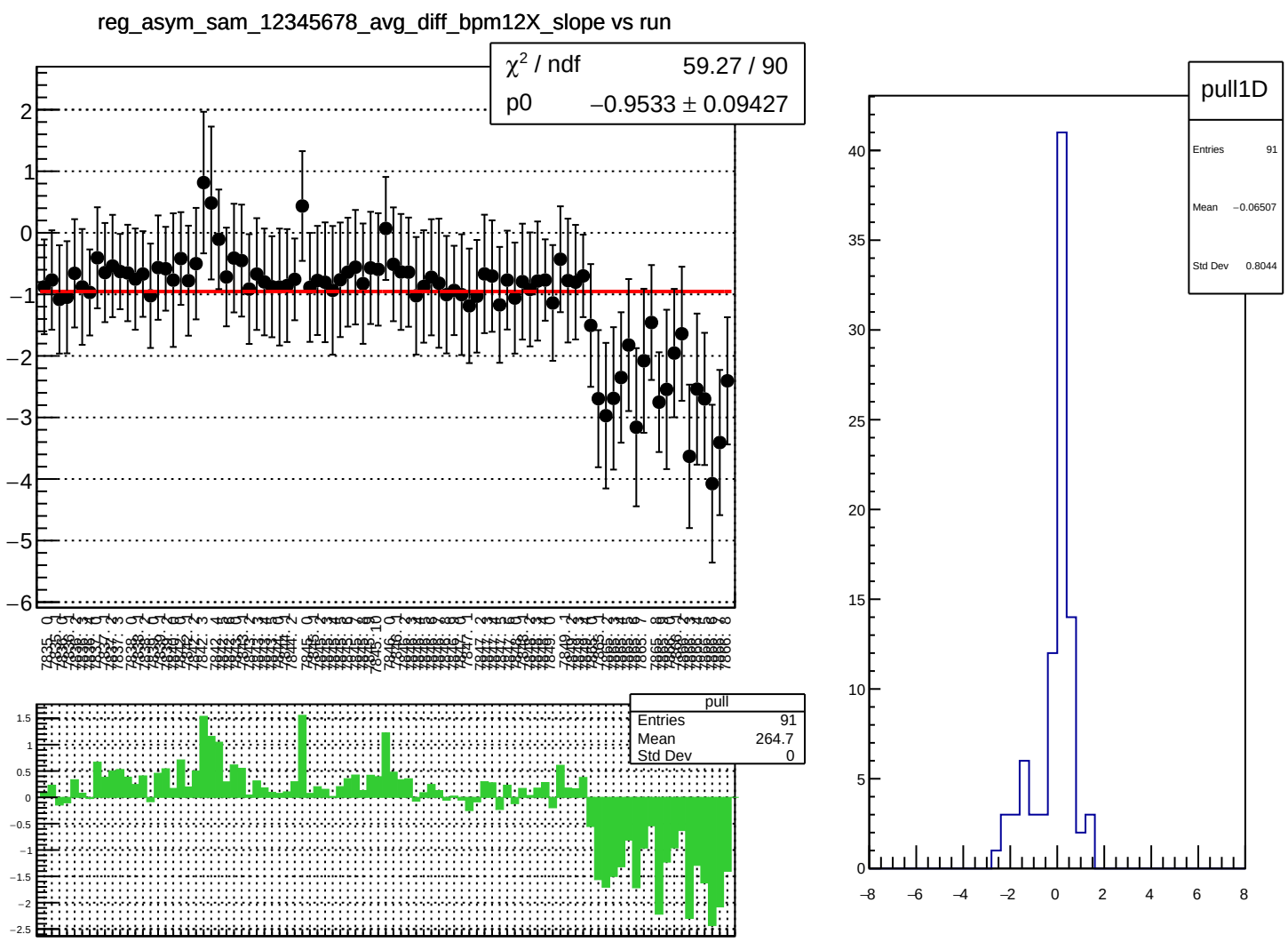

pull1D
Entries 91
Mean −0.5179
Std Dev 1.403

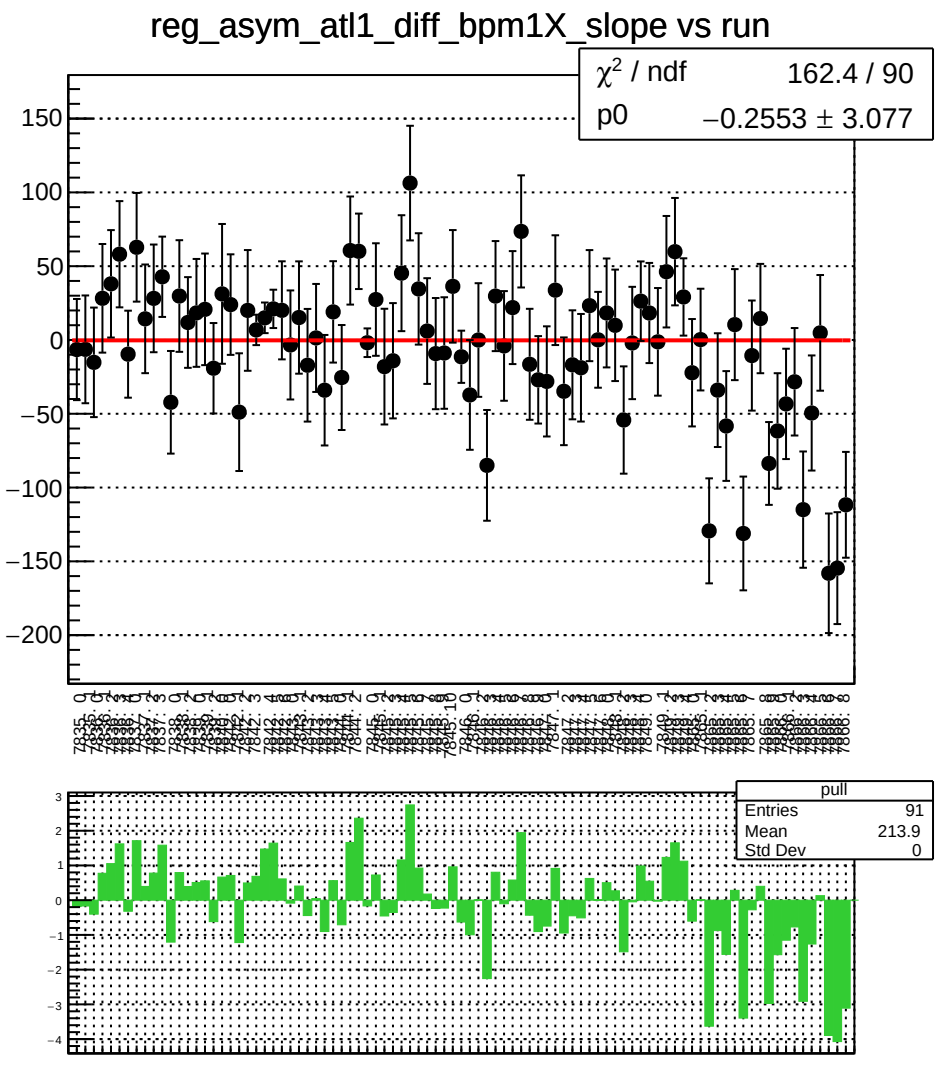

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.11 / 90
p0 16.1 ± 2.724
pull
Entries 91
Mean 124.9
Std Dev 0

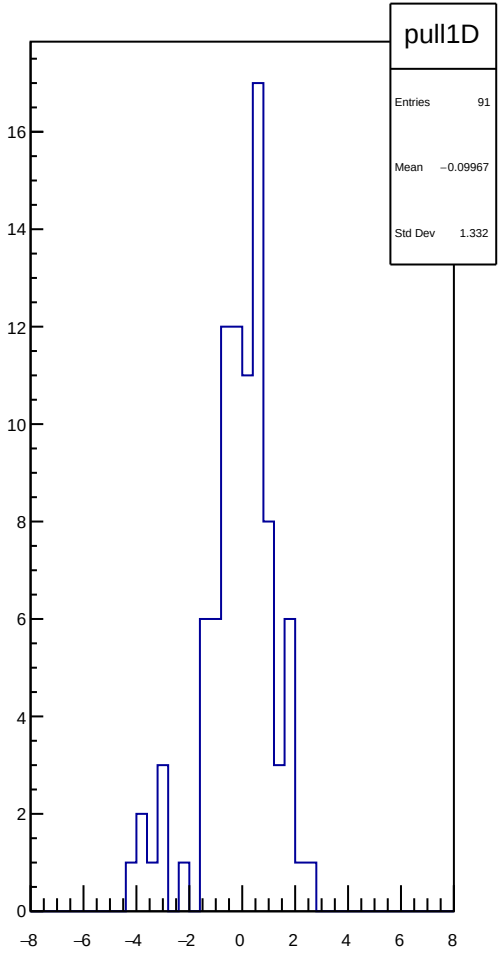

pull1D
Entries 91
Mean 0.0658
Std Dev 0.3883

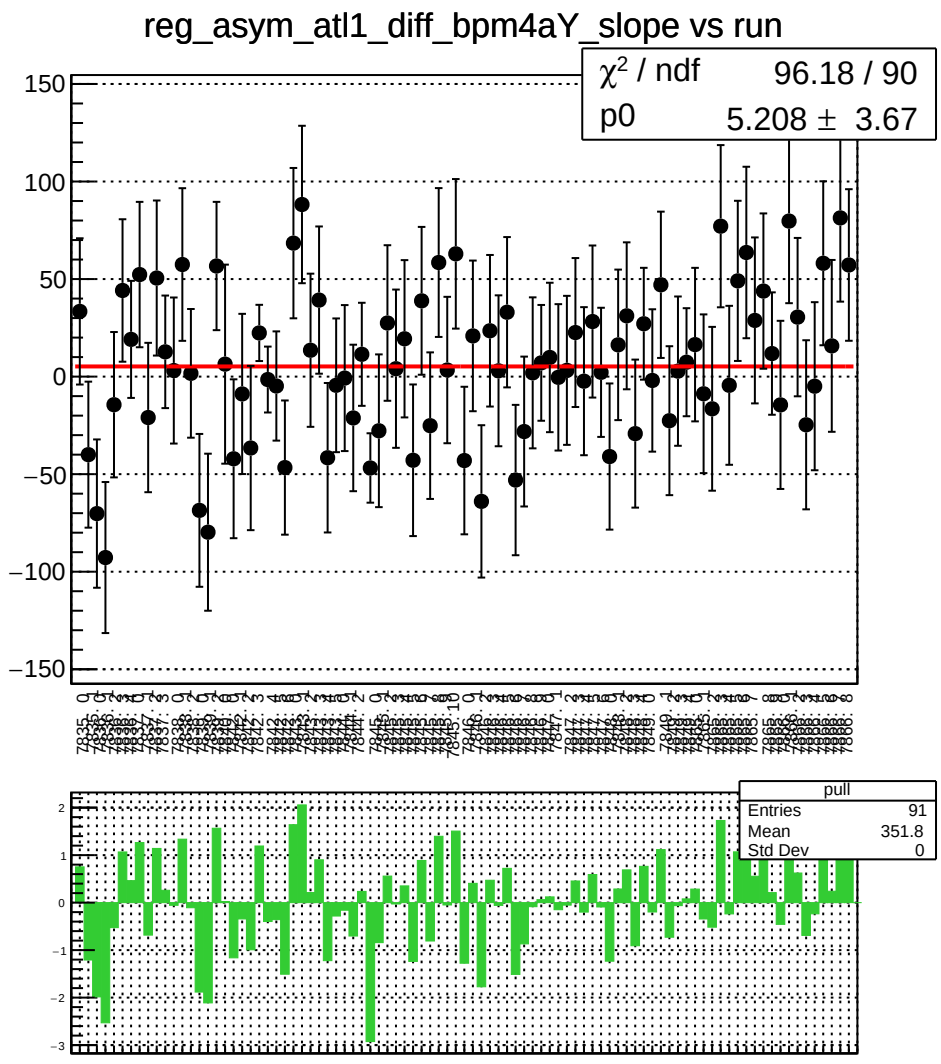

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 204.5 / 90
p0 −43.4 ± 2.026
pull
Entries 91
Mean 74.07
Std Dev 20.65
pull1D
Entries 91
Mean 0.5841
Std Dev 1.381

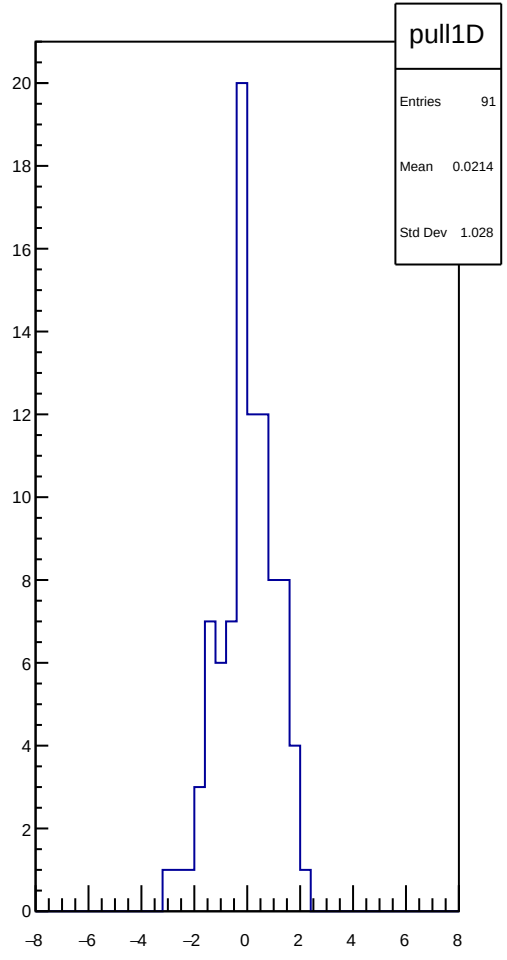

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.84 / 90
p0 15.46 ± 3.148
pull
Entries 91
Mean 143.4
Std Dev 0
pull1D
Entries 91
Mean −0.04685
Std Dev 0.3577

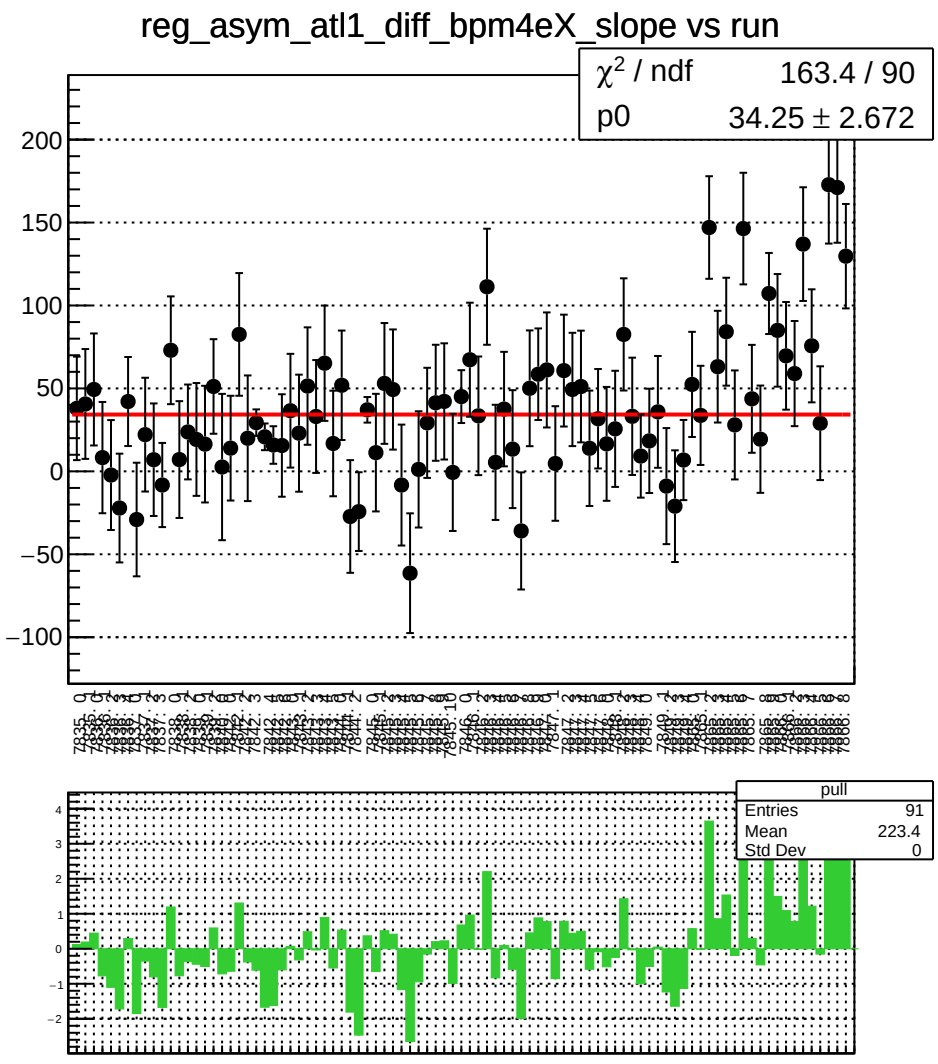

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 59.27 / 90
p0 −0.9533 ± 0.09427
pull
Entries 91
Mean 264.7
Std Dev 0
pull1D
Entries 91
Mean −0.06507
Std Dev 0.8044

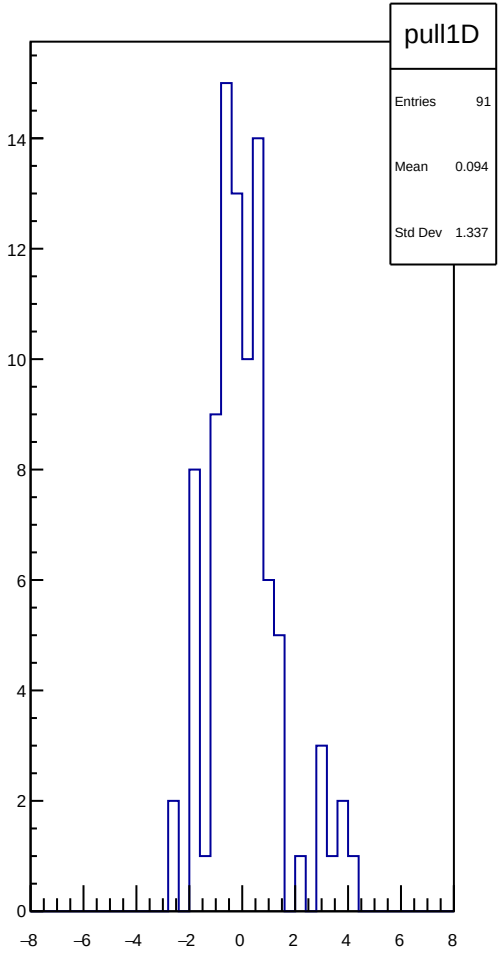

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 162.4 / 90
p0 −0.2553 ± 3.077
pull
Entries 91
Mean 213.9
Std Dev 0

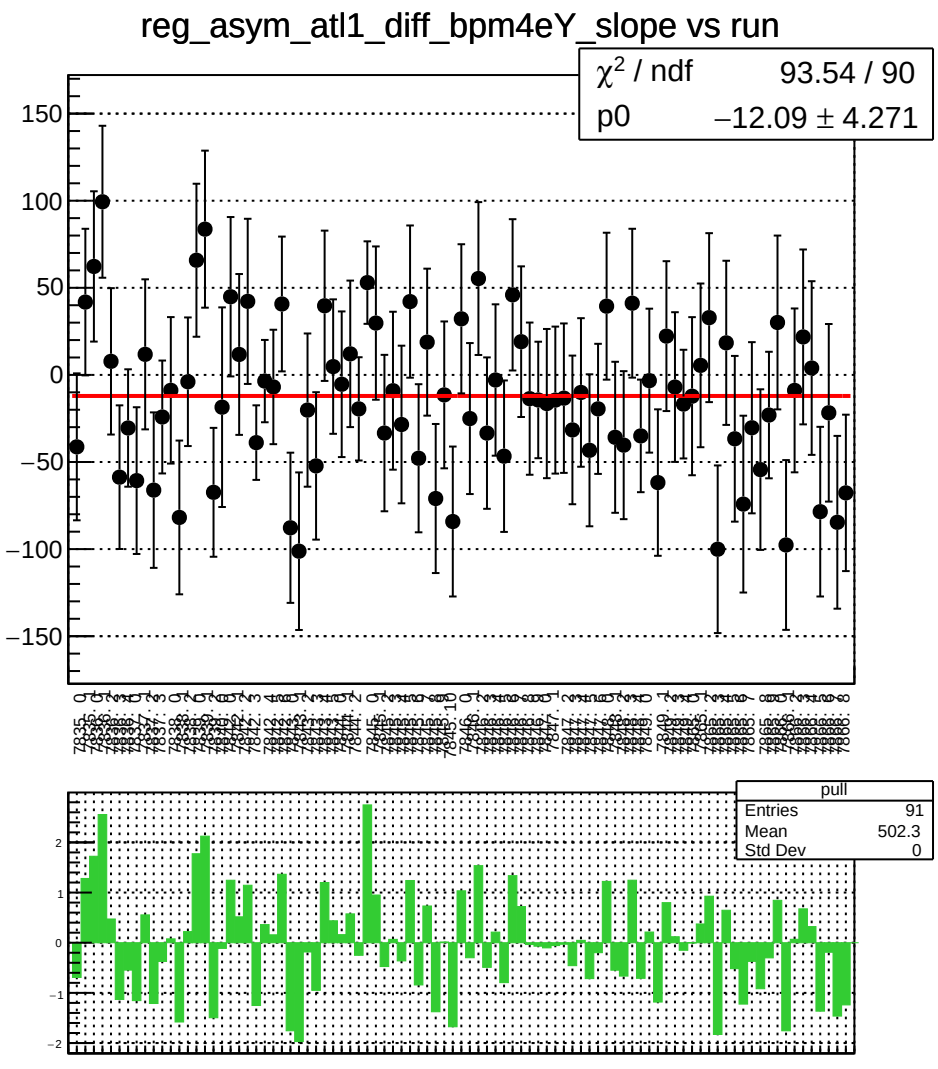

pull1D
Entries 91
Mean −0.09967
Std Dev 1.332

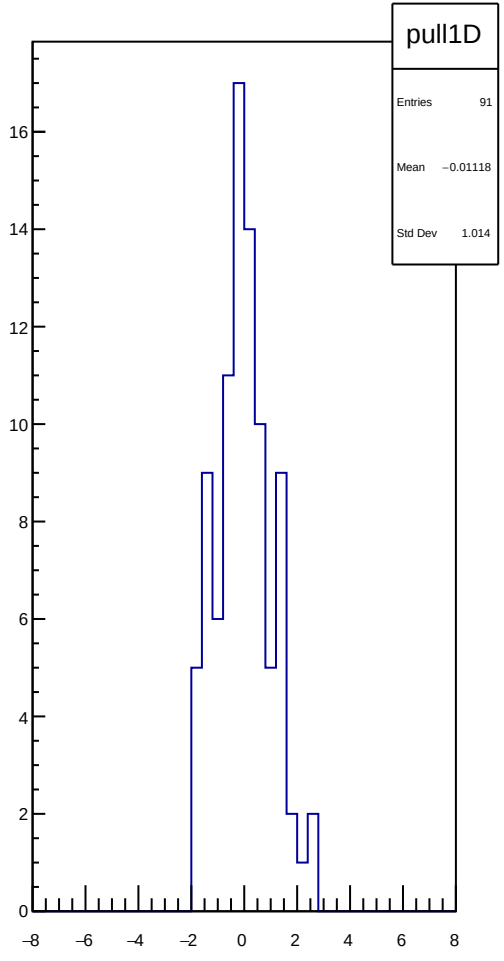

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 96.18 / 90
p0 5.208 ± 3.67
pull
Entries 91
Mean 351.8
Std Dev 0

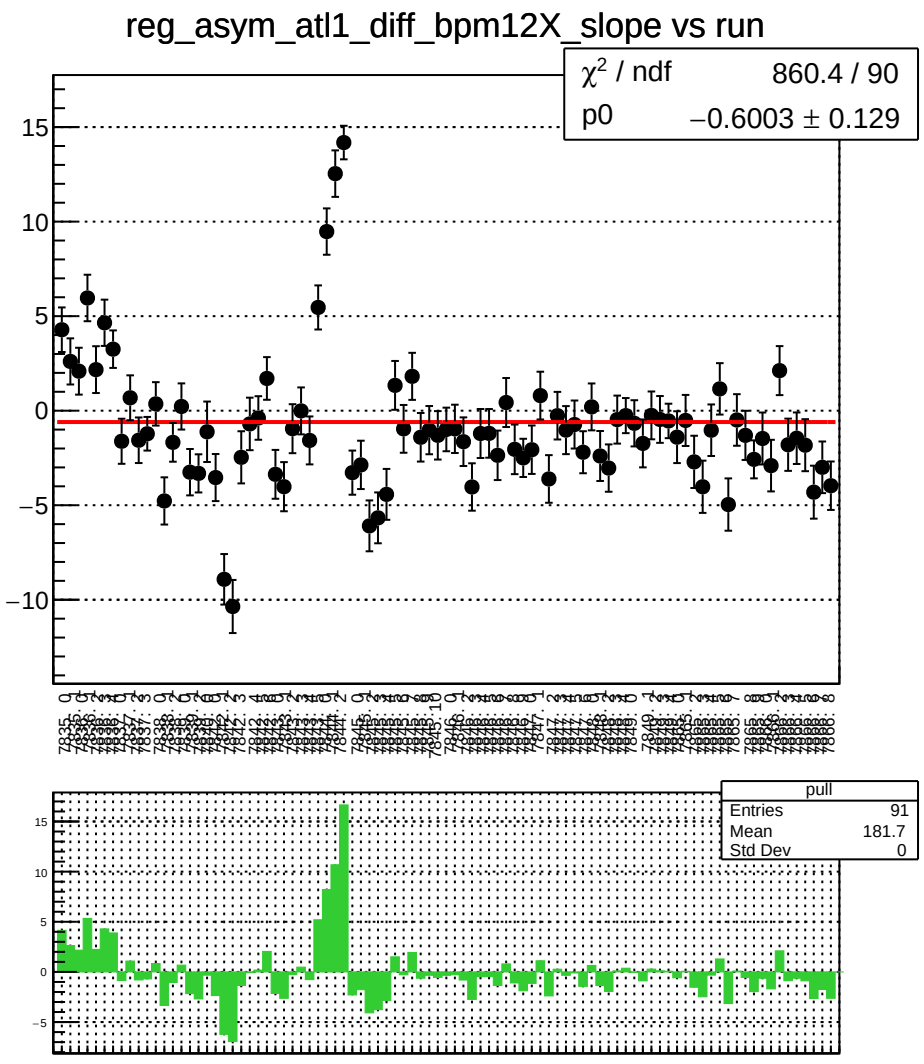

pull1D
Entries 91
Mean 0.0214
Std Dev 1.028

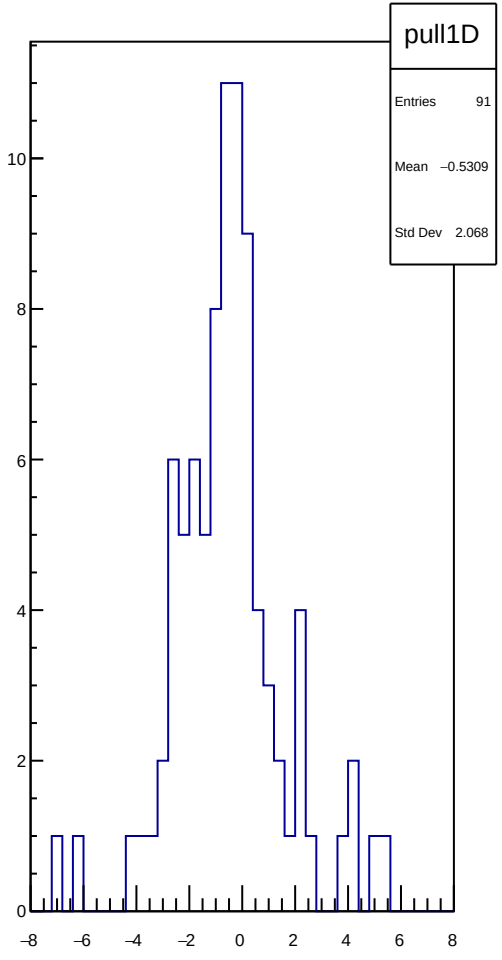

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 163.4 / 90
p0 34.25 ± 2.672
pull
Entries 91
Mean 223.4
Std Dev 0

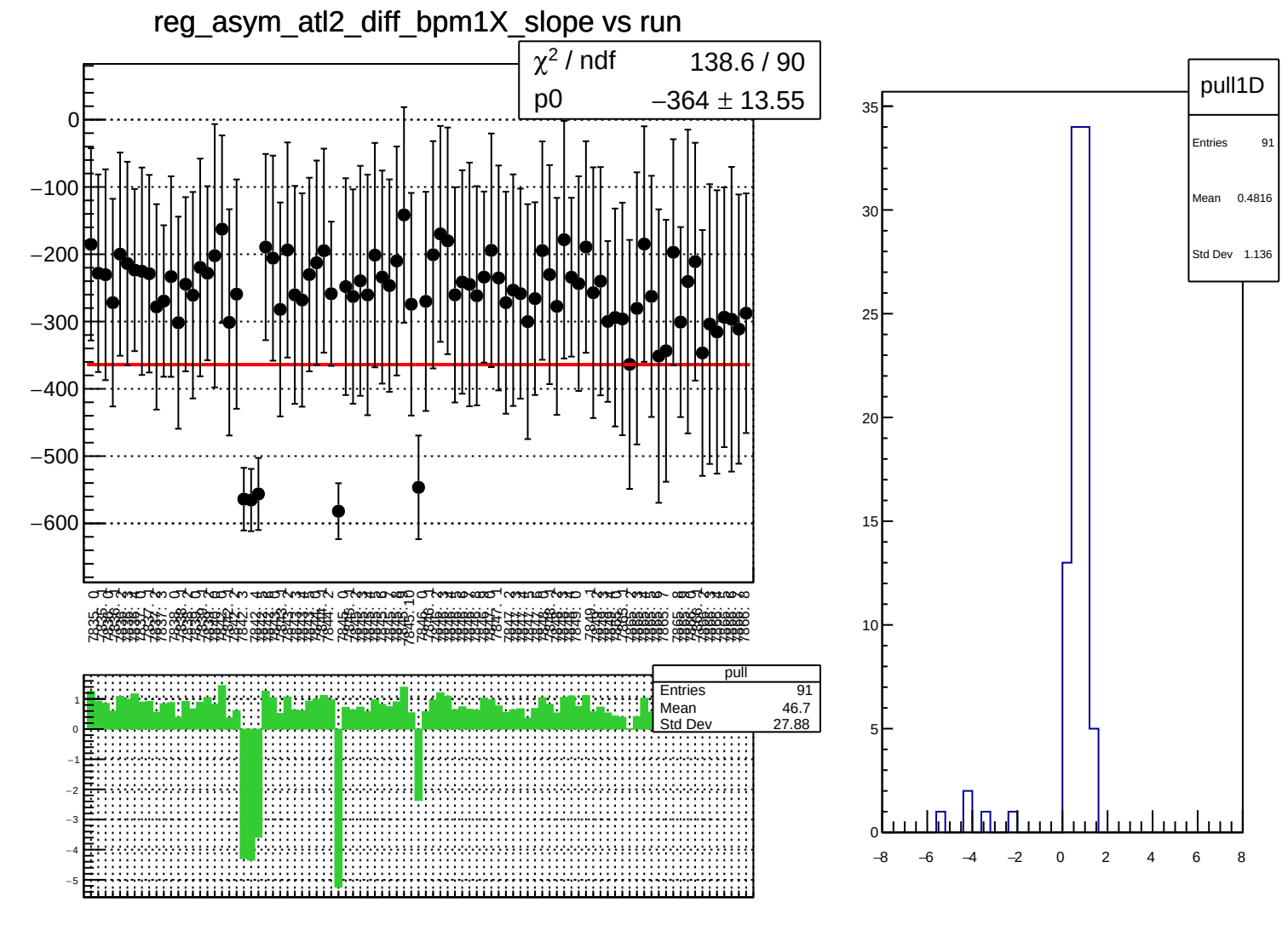

pull1D
Entries 91
Mean 0.094
Std Dev 1.337

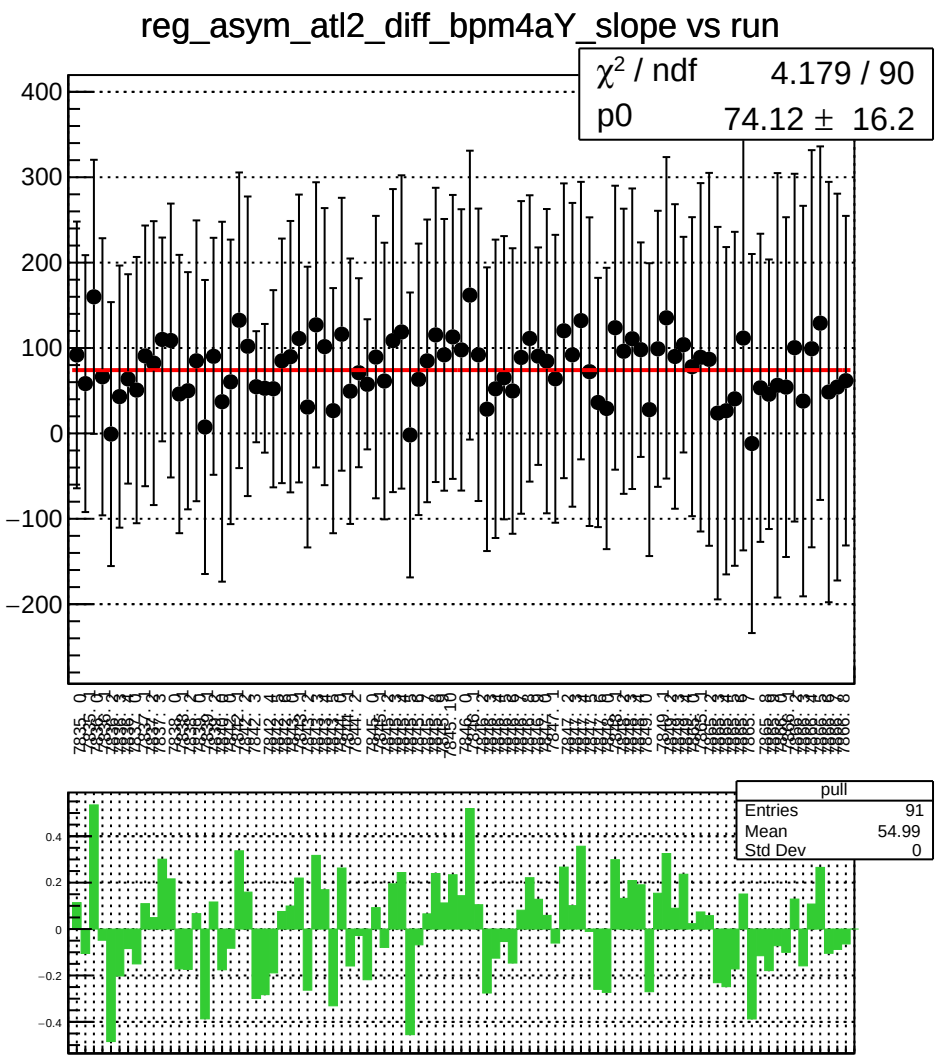

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 93.54 / 90
p0 −12.09 ± 4.271
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 502.3
Std Dev 0
2
1
0
−1
−2

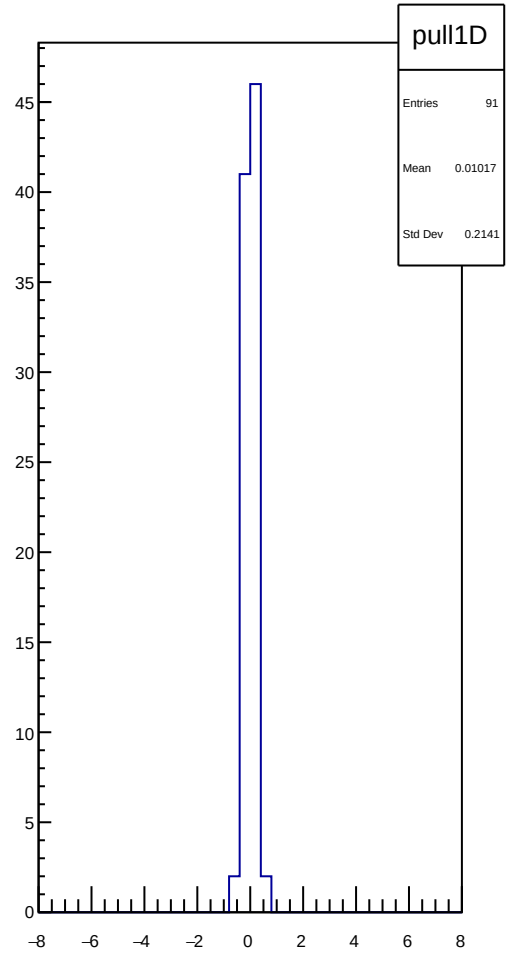

pull1D
Entries 91
Mean −0.01118
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

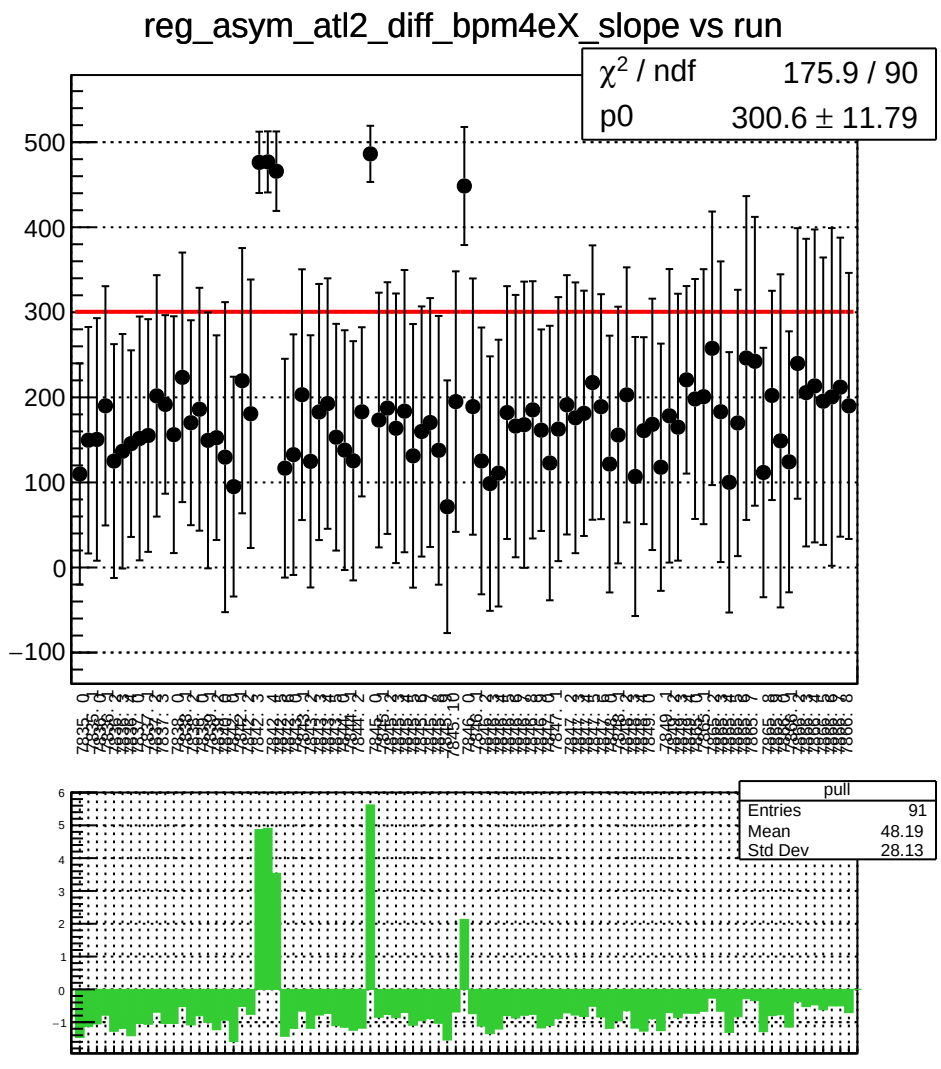

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 860.4 / 90
p0 −0.6003 ± 0.129
pull
Entries 91
Mean 181.7
Std Dev 0

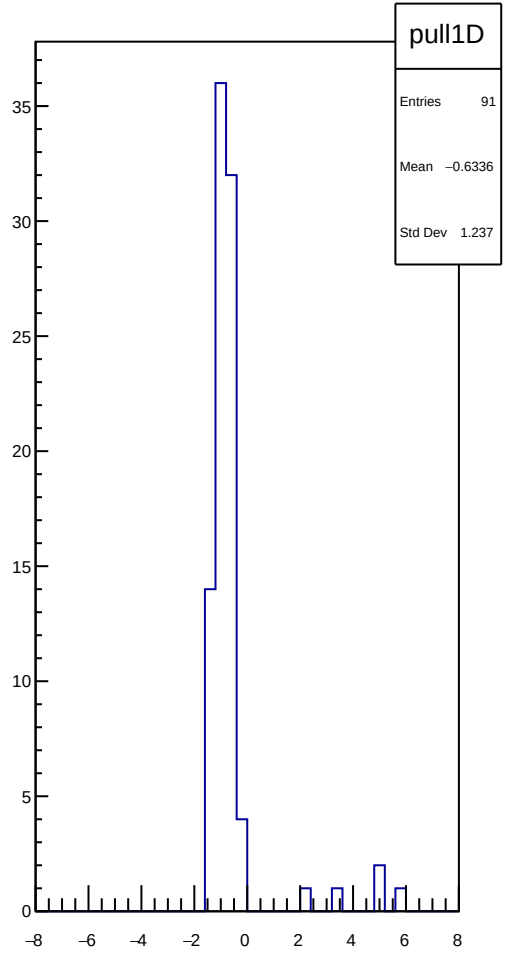

pull1D
Entries 91
Mean −0.5309
Std Dev 2.068

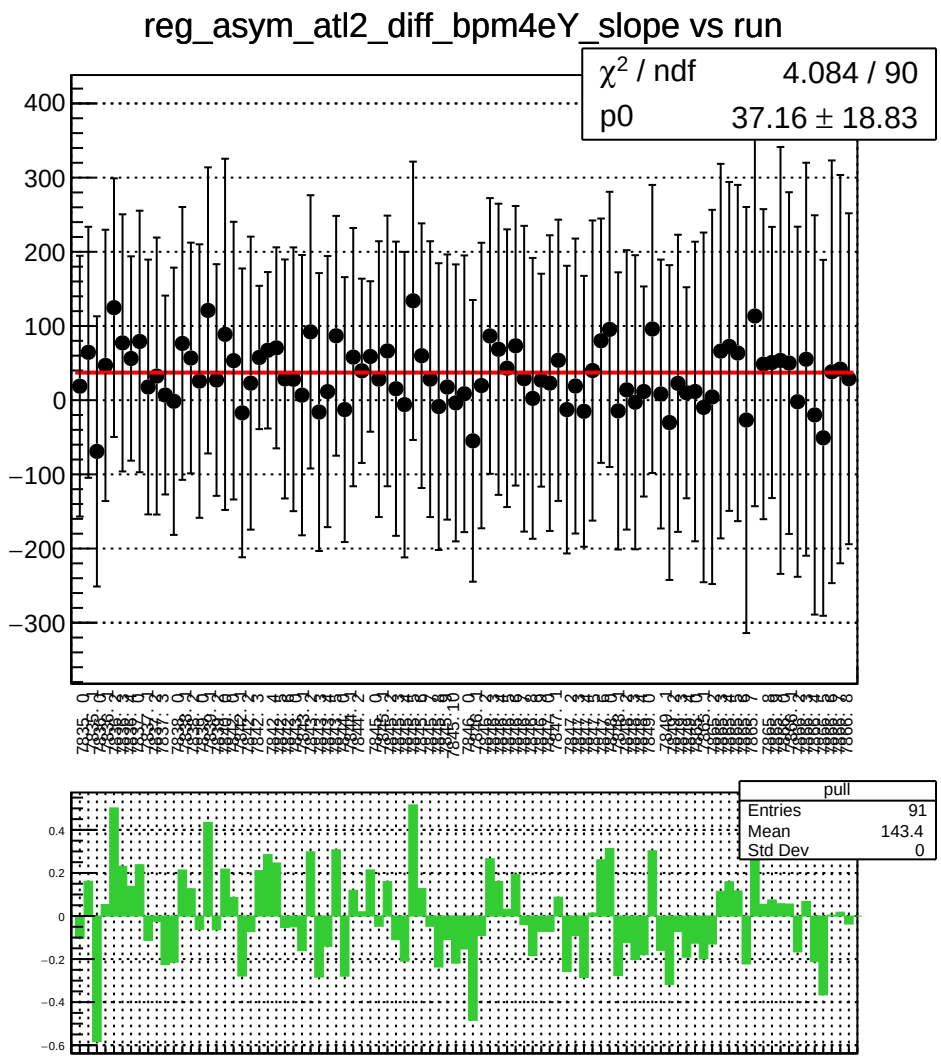

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 138.6 / 90
p0 −364 ± 13.55
pull
Entries 91
Mean 46.7
Std Dev 27.88
pull1D
Entries 91
Mean 0.4816
Std Dev 1.136

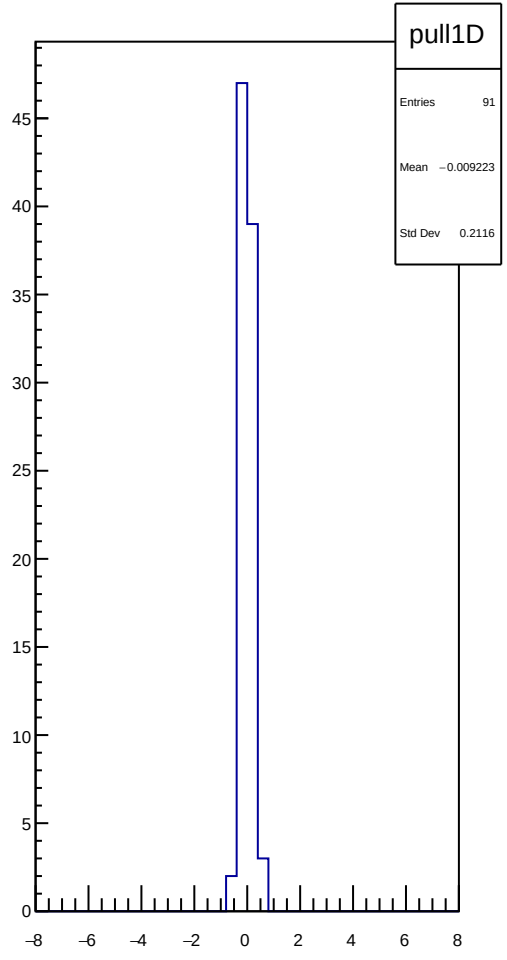

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.179 / 90
p0 74.12 ± 16.2
pull
Entries 91
Mean 54.99
Std Dev 0

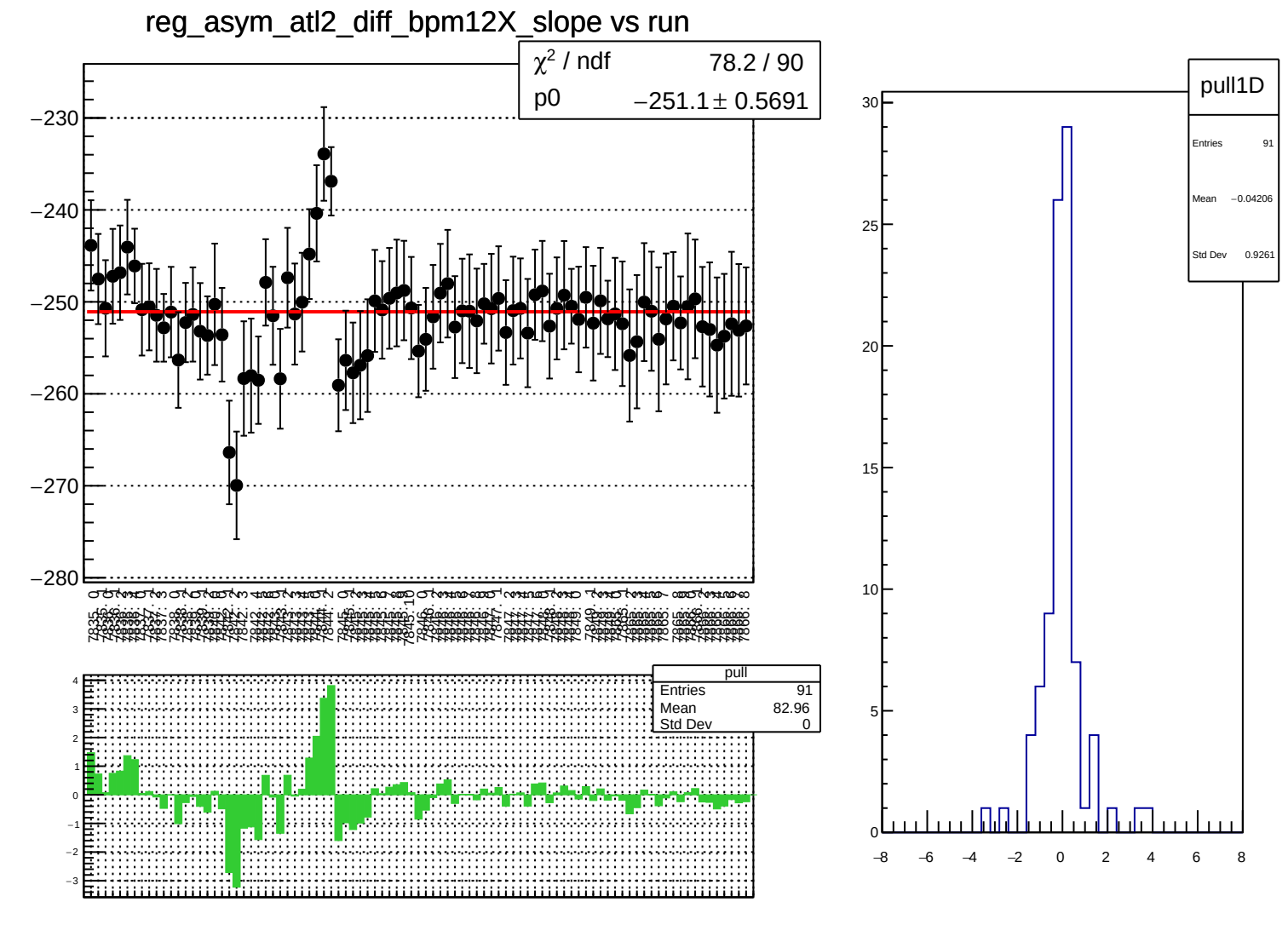

pull1D
Entries 91
Mean 0.01017
Std Dev 0.2141

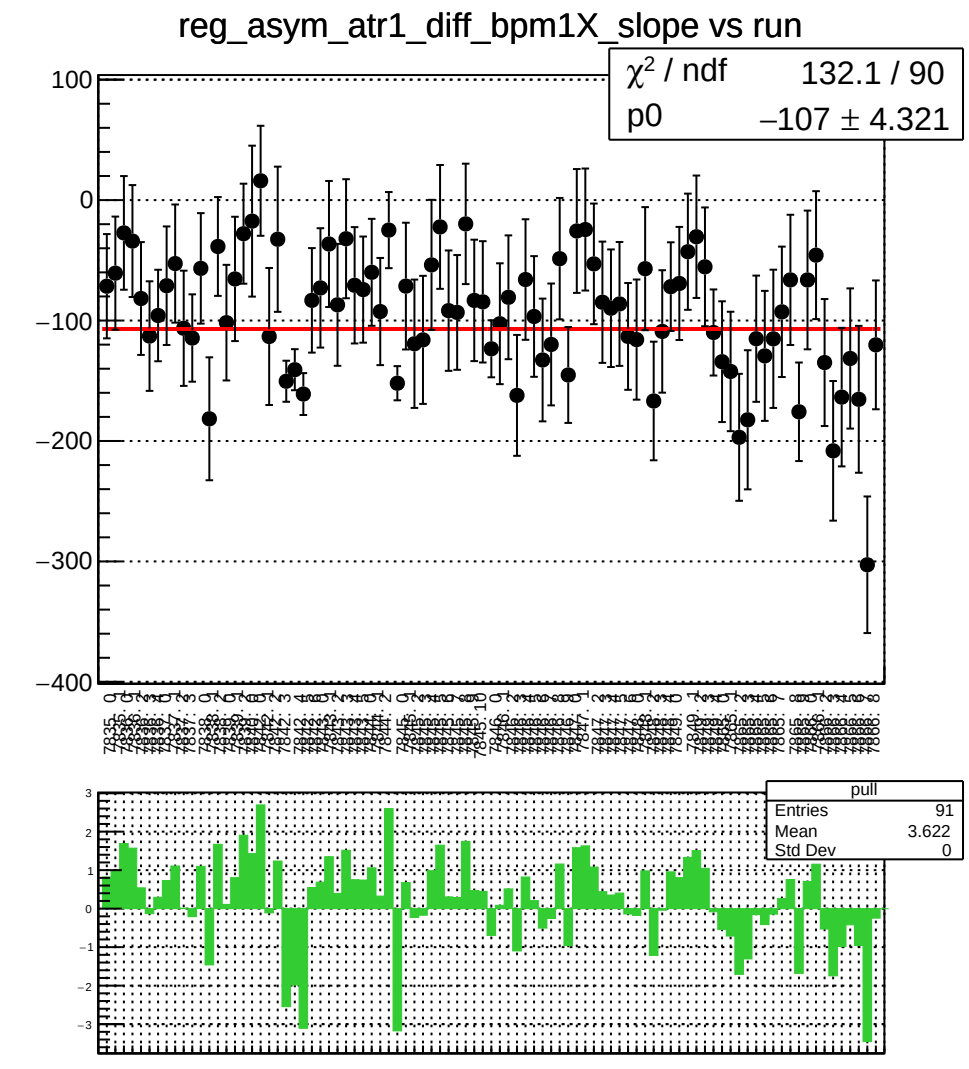

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 175.9 / 90
p0 300.6 ± 11.79
pull
Entries 91
Mean 48.19
Std Dev 28.13

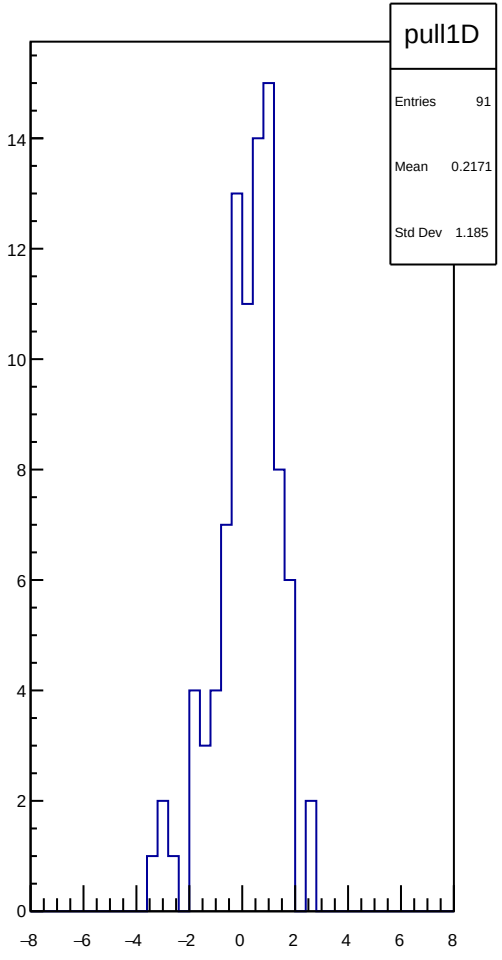

pull1D
Entries 91
Mean −0.6336
Std Dev 1.237

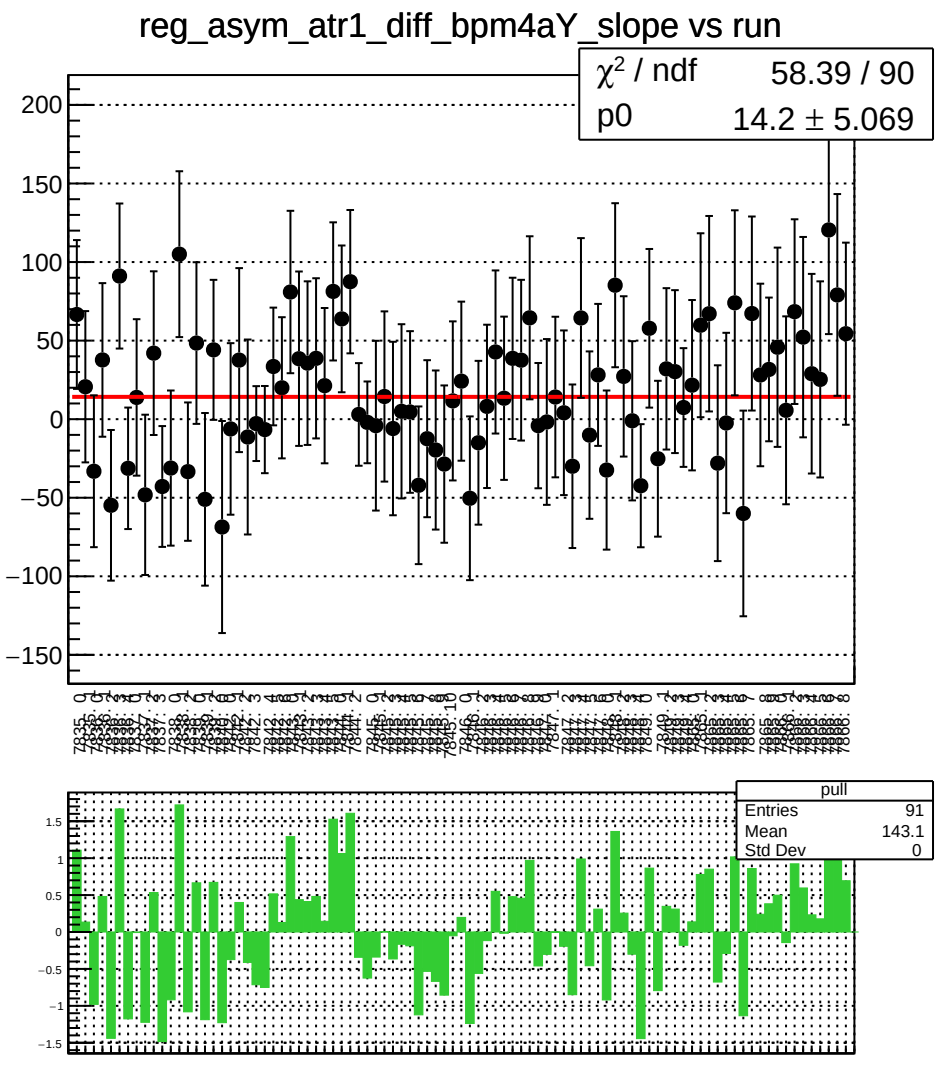

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.084 / 90
p0 37.16 ± 18.83
pull
Entries 91
Mean 143.4
Std Dev 0

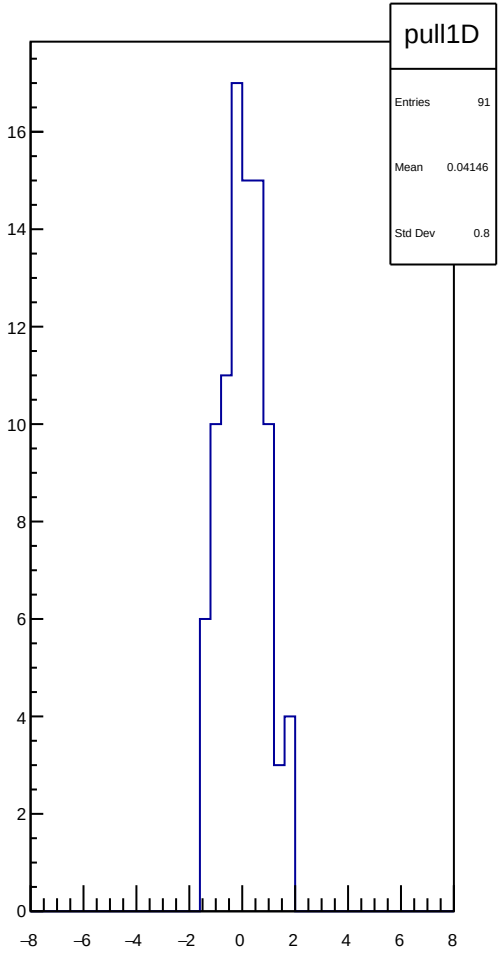

pull1D
Entries 91
Mean −0.009223
Std Dev 0.2116

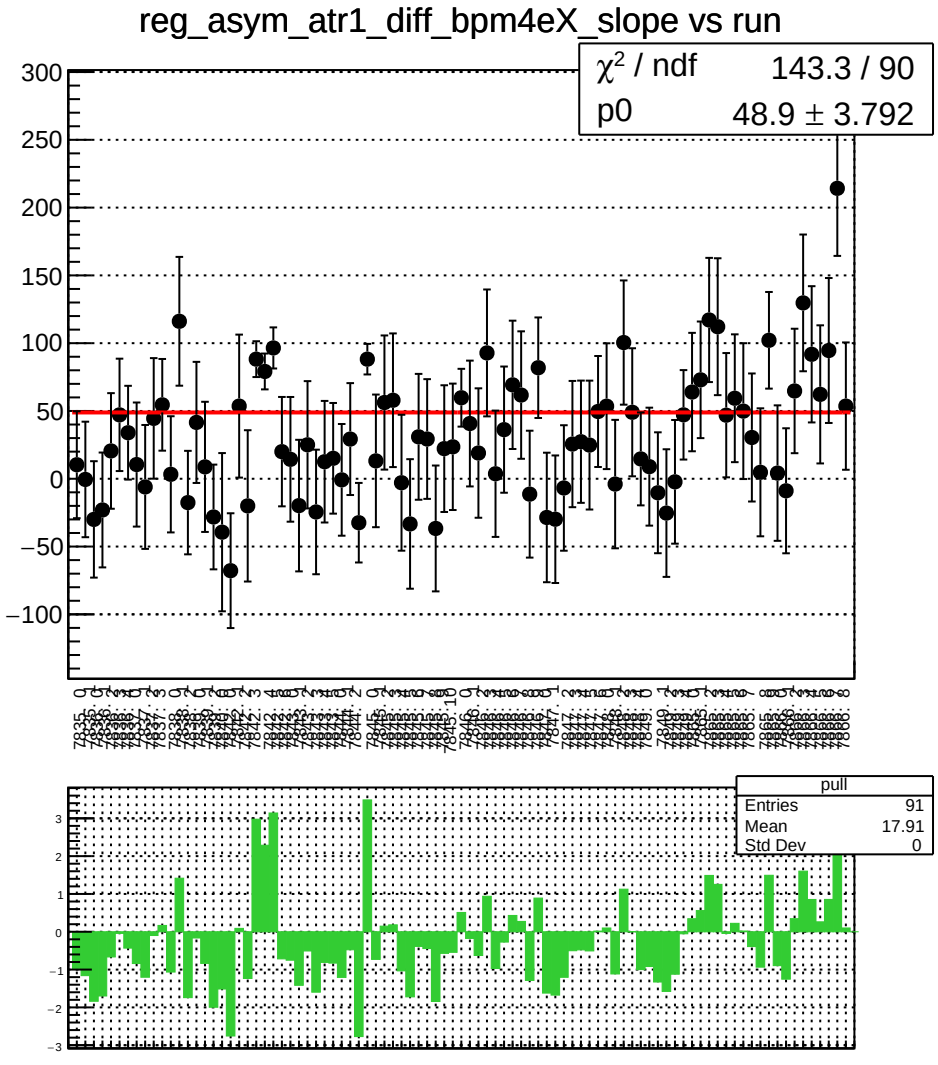

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 78.2 / 90
p0 −251.1 ± 0.5691
pull
Entries 91
Mean 82.96
Std Dev 0
pull1D
Entries 91
Mean −0.04206
Std Dev 0.9261

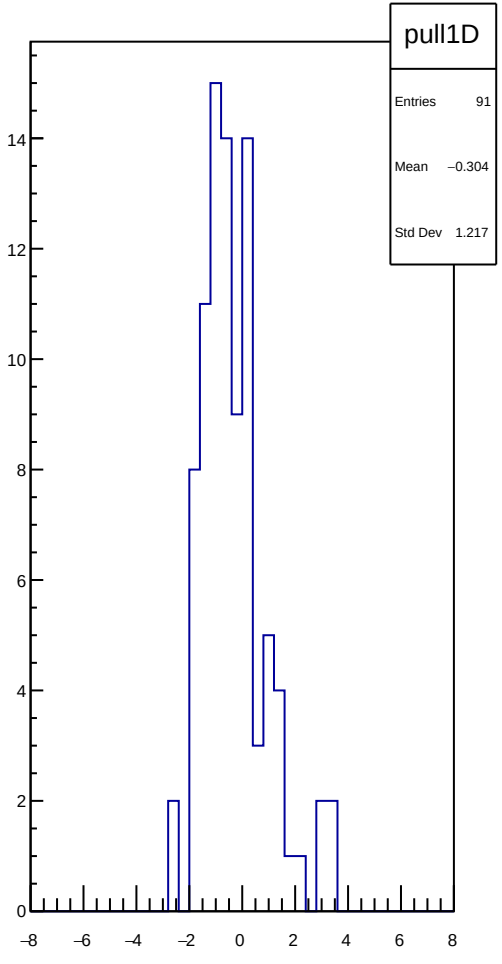

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 132.1 / 90
p0 −107 ± 4.321
pull
Entries 91
Mean 3.622
Std Dev 0

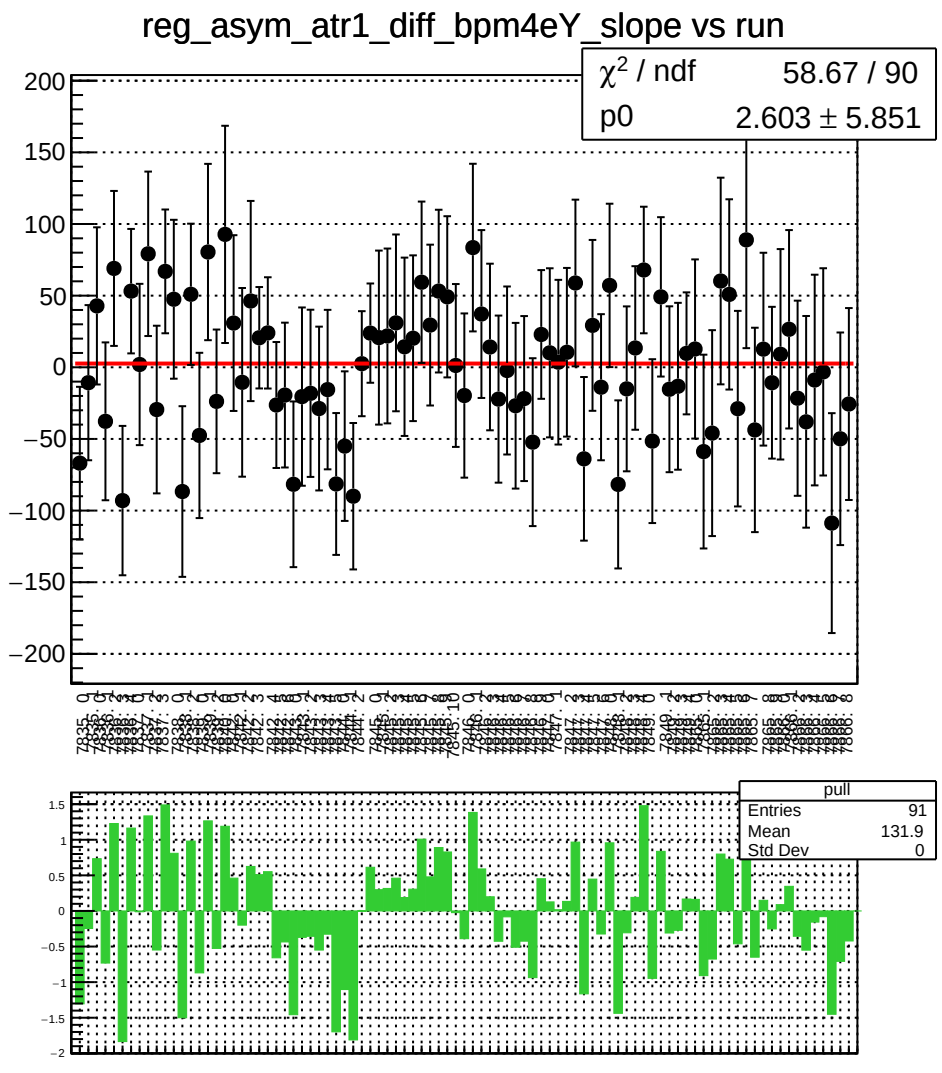

pull1D
Entries 91
Mean 0.2171
Std Dev 1.185

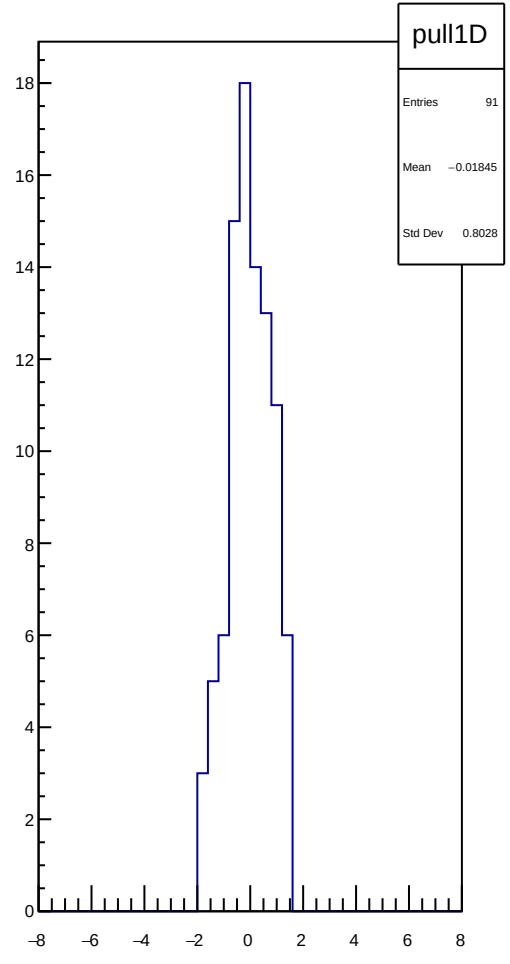

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 58.39 / 90
p0 14.2 ± 5.069
pull
Entries 91
Mean 143.1
Std Dev 0

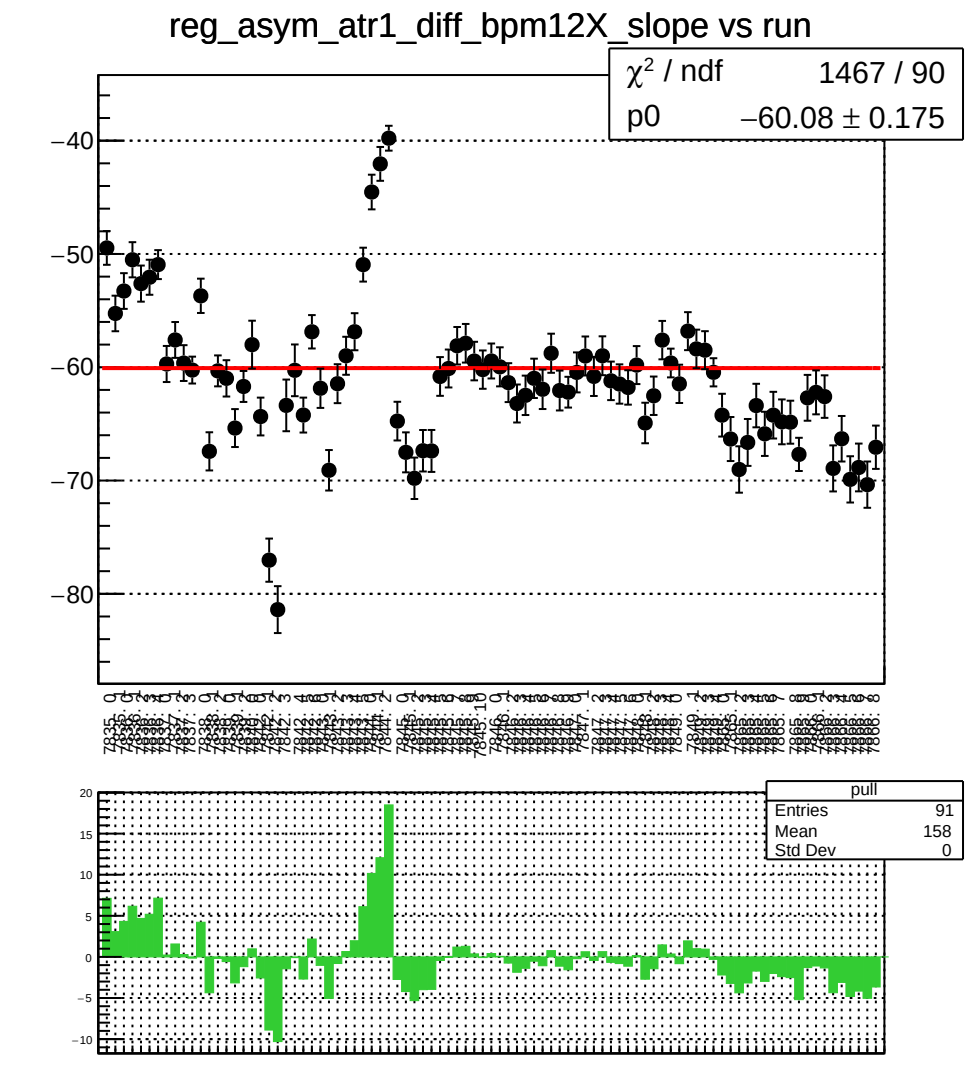

pull1D
Entries 91
Mean 0.04146
Std Dev 0.8

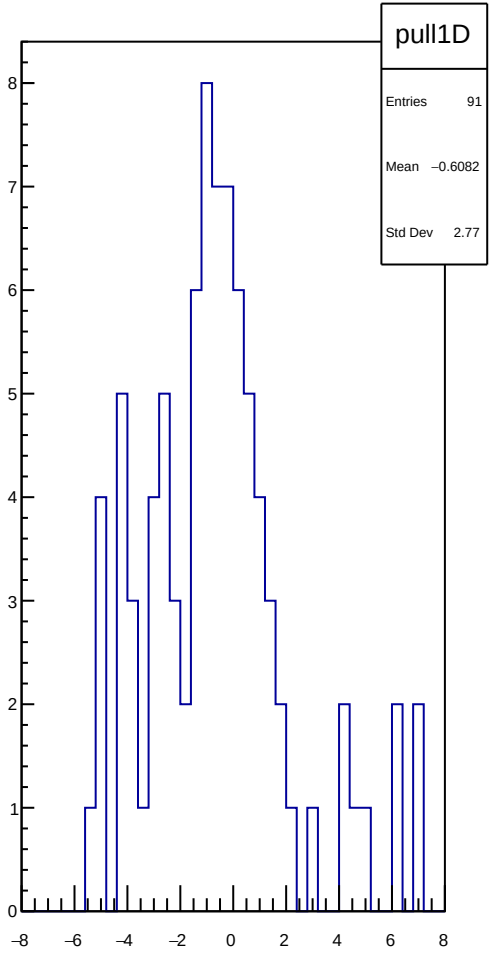

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 143.3 / 90
p0 48.9 ± 3.792
pull
Entries 91
Mean 17.91
Std Dev 0

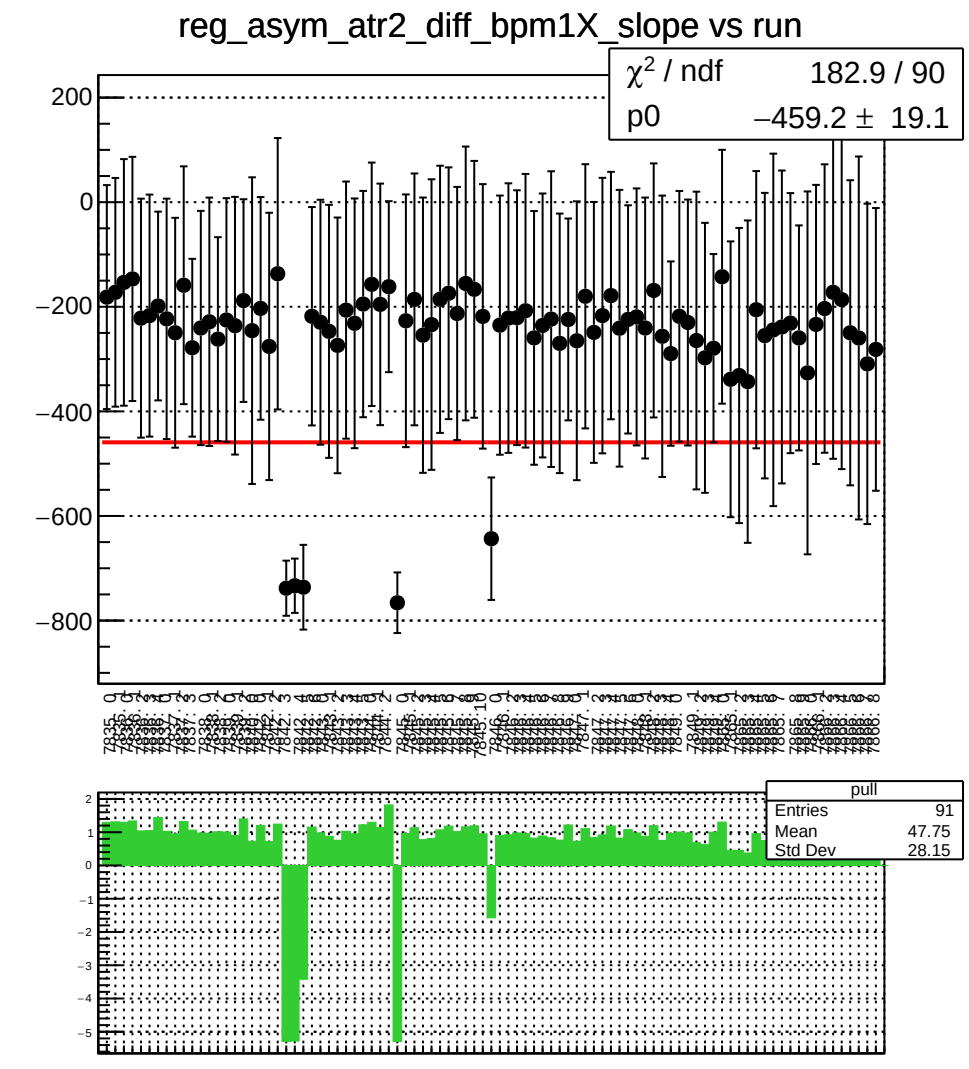

pull1D
Entries 91
Mean −0.304
Std Dev 1.217

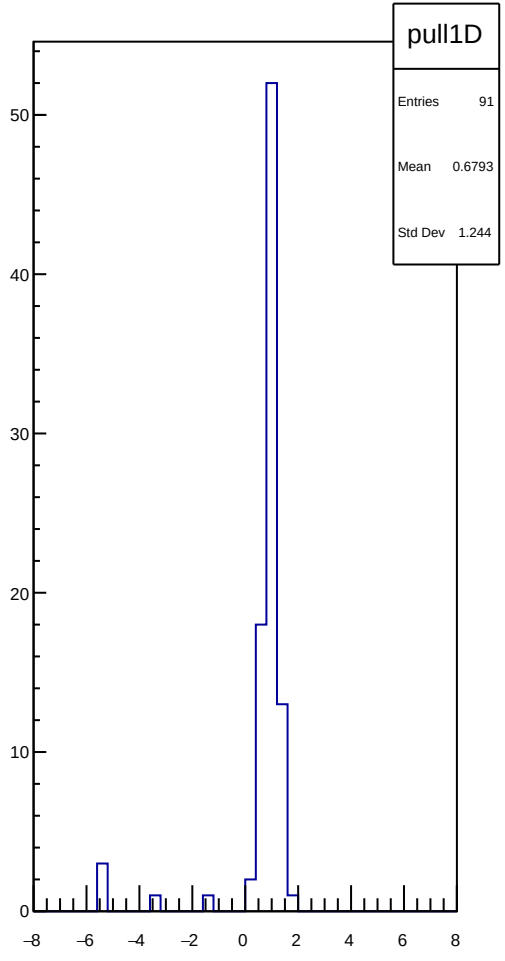

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 58.67 / 90
p0 2.603 ± 5.851
pull
Entries 91
Mean 131.9
Std Dev 0

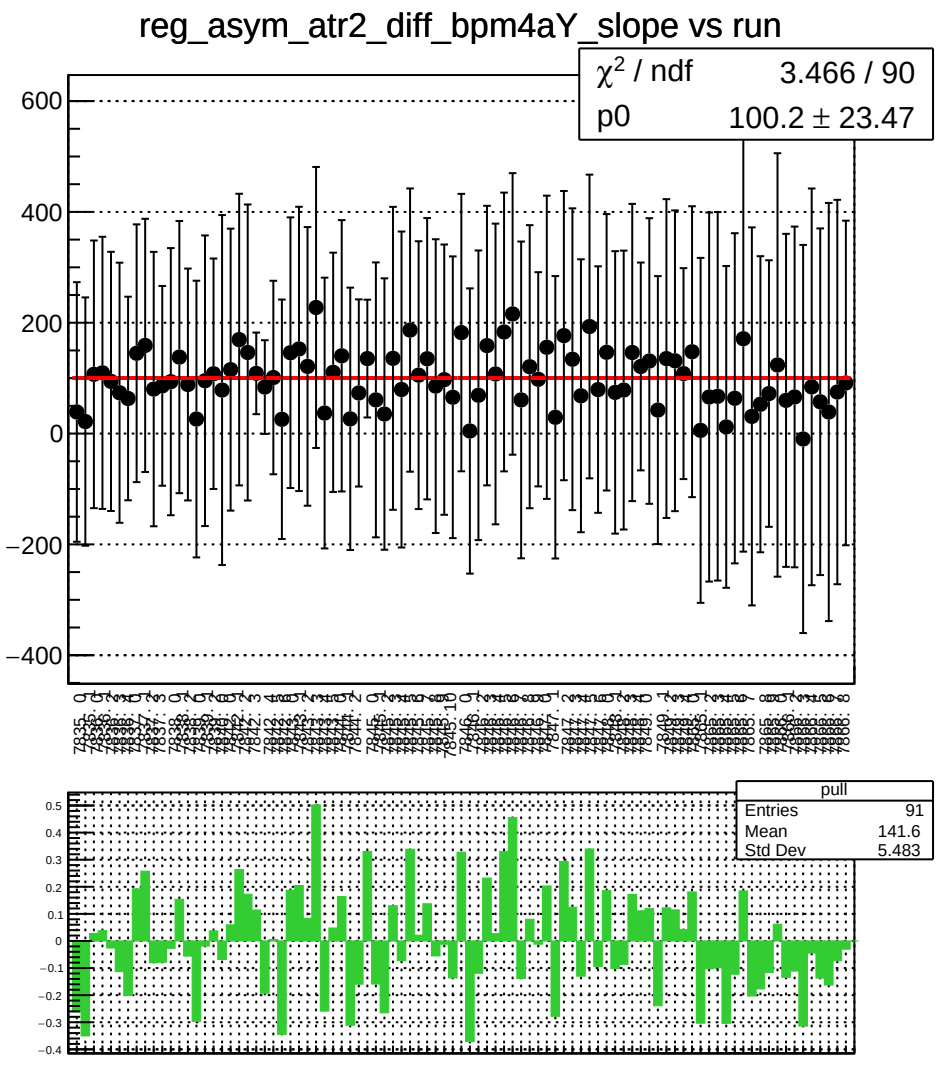

pull1D
Entries 91
Mean −0.01845
Std Dev 0.8028

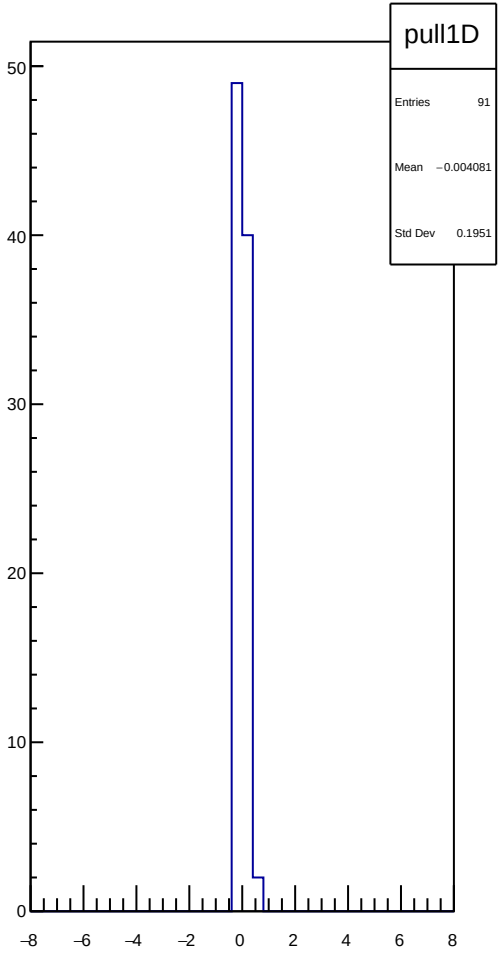

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1467 / 90
p0 −60.08 ± 0.175
pull
Entries 91
Mean 158
Std Dev 0

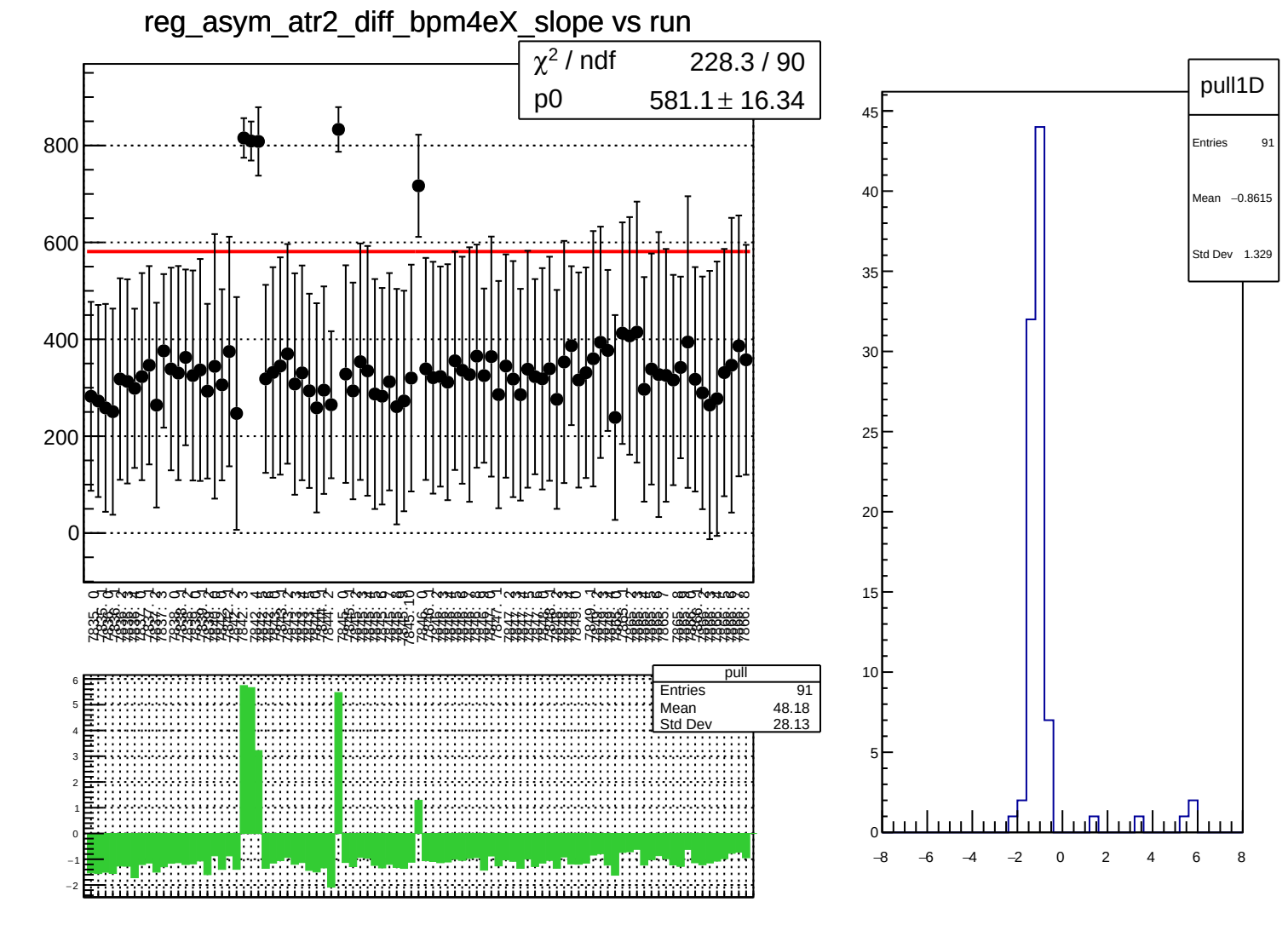

pull1D
Entries 91
Mean −0.6082
Std Dev 2.77

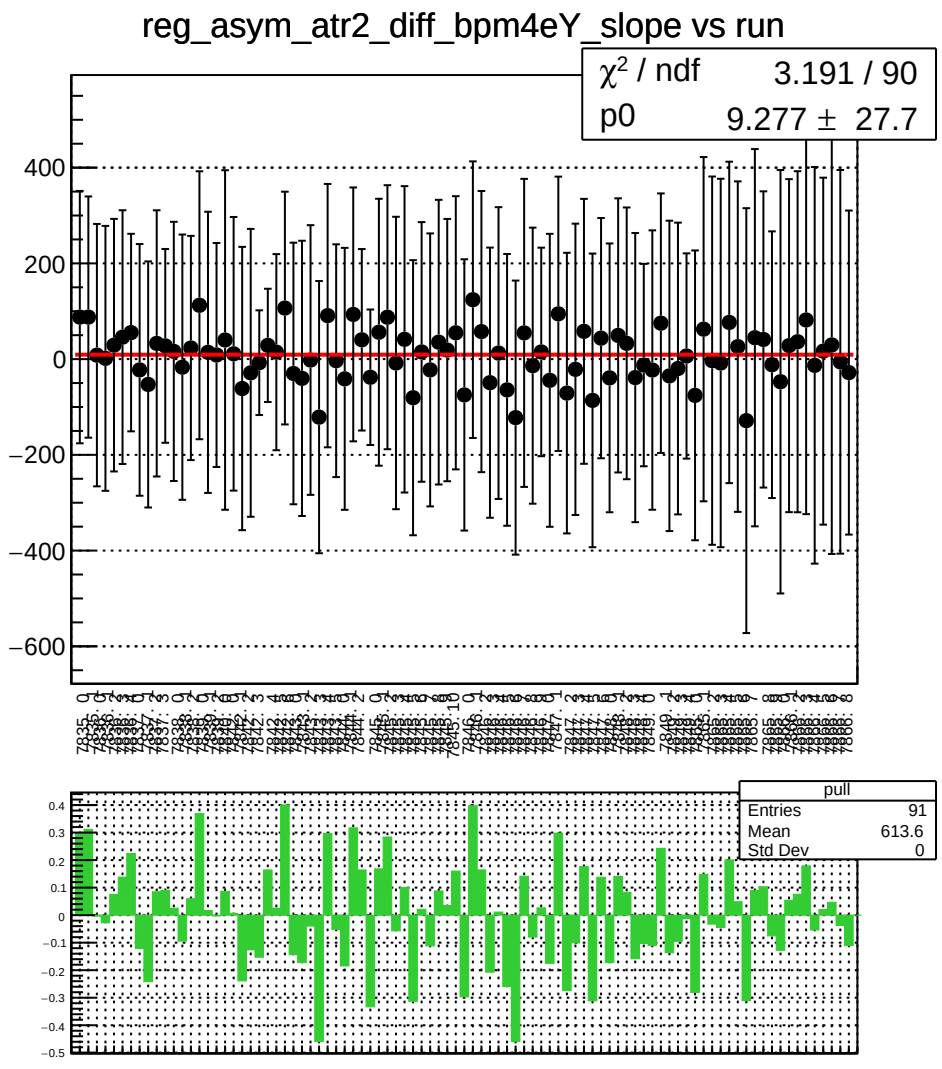

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 182.9 / 90
p0 −459.2 ± 19.1
200
0
−200
−400
−600
−800
pull
Entries 91
Mean 47.75
Std Dev 28.15
2
1
0
−1
−2
−3
−4
−5

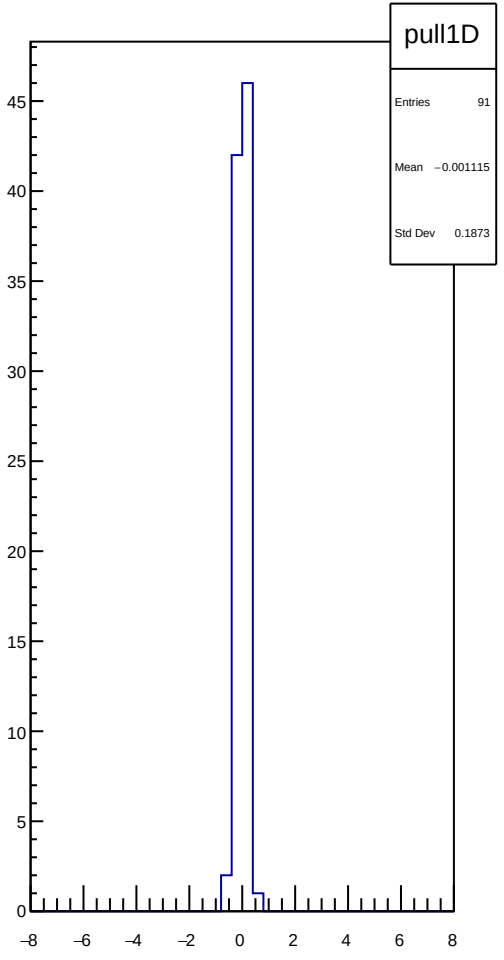

pull1D
Entries 91
Mean 0.6793
Std Dev 1.244
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

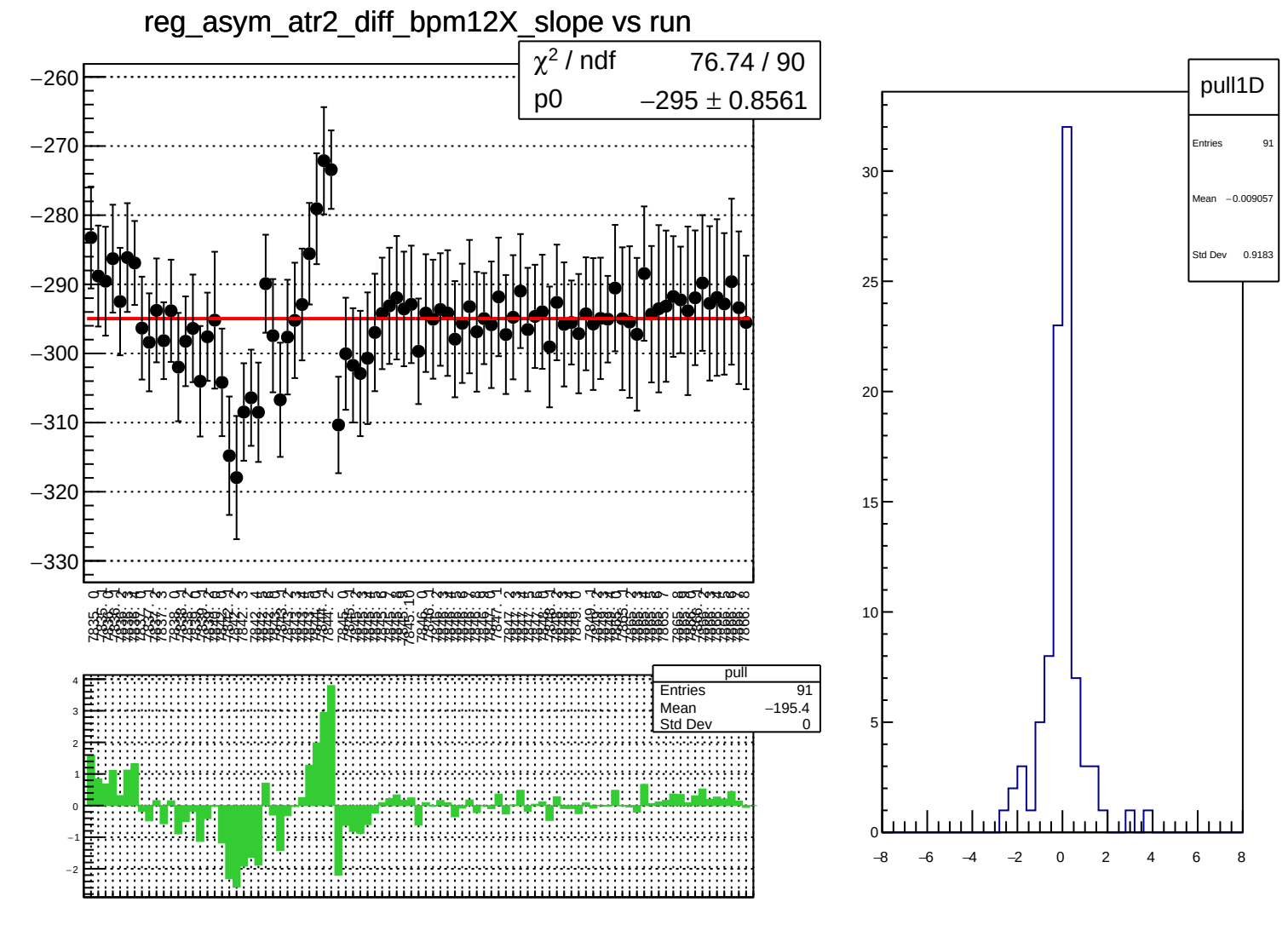

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.466 / 90
p0 100.2 ± 23.47
pull
Entries 91
Mean 141.6
Std Dev 5.483

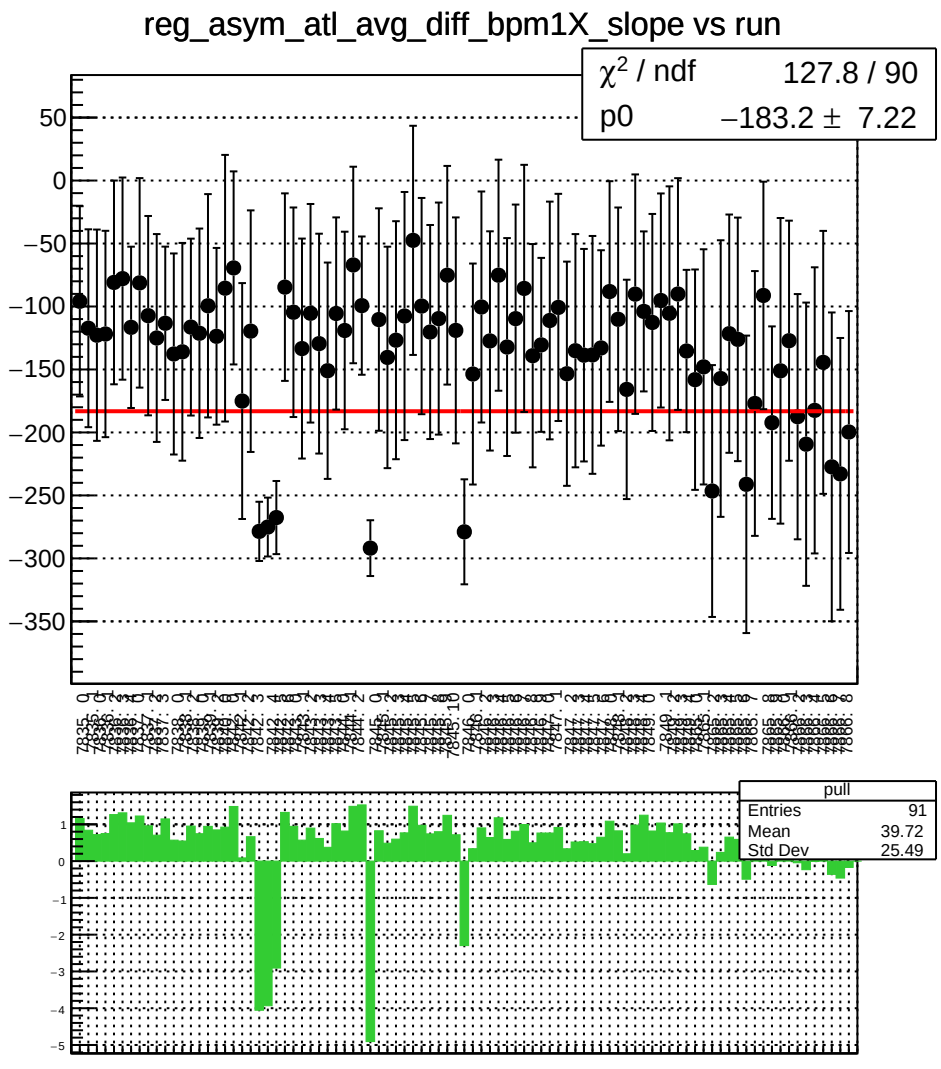

pull1D
Entries 91
Mean −0.004081
Std Dev 0.1951

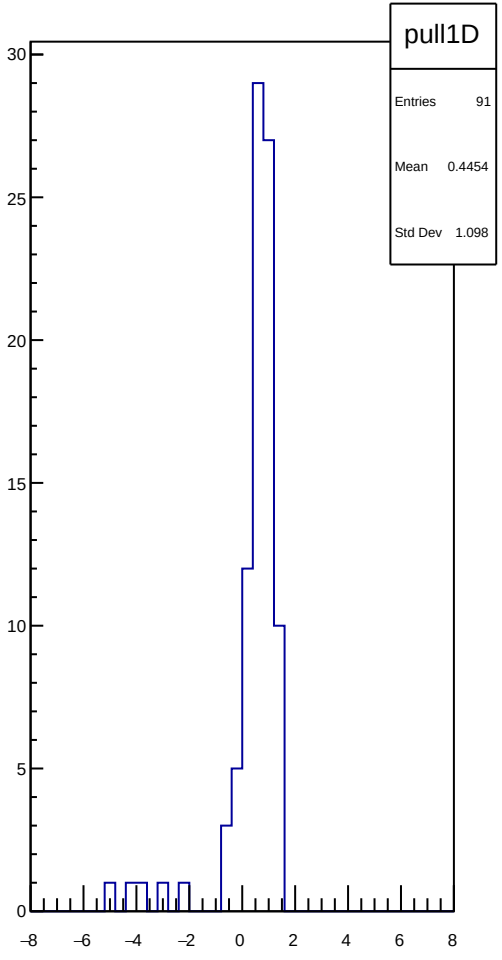

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 228.3 / 90
p0 581.1 ± 16.34
pull
Entries 91
Mean 48.18
Std Dev 28.13
pull1D
Entries 91
Mean −0.8615
Std Dev 1.329

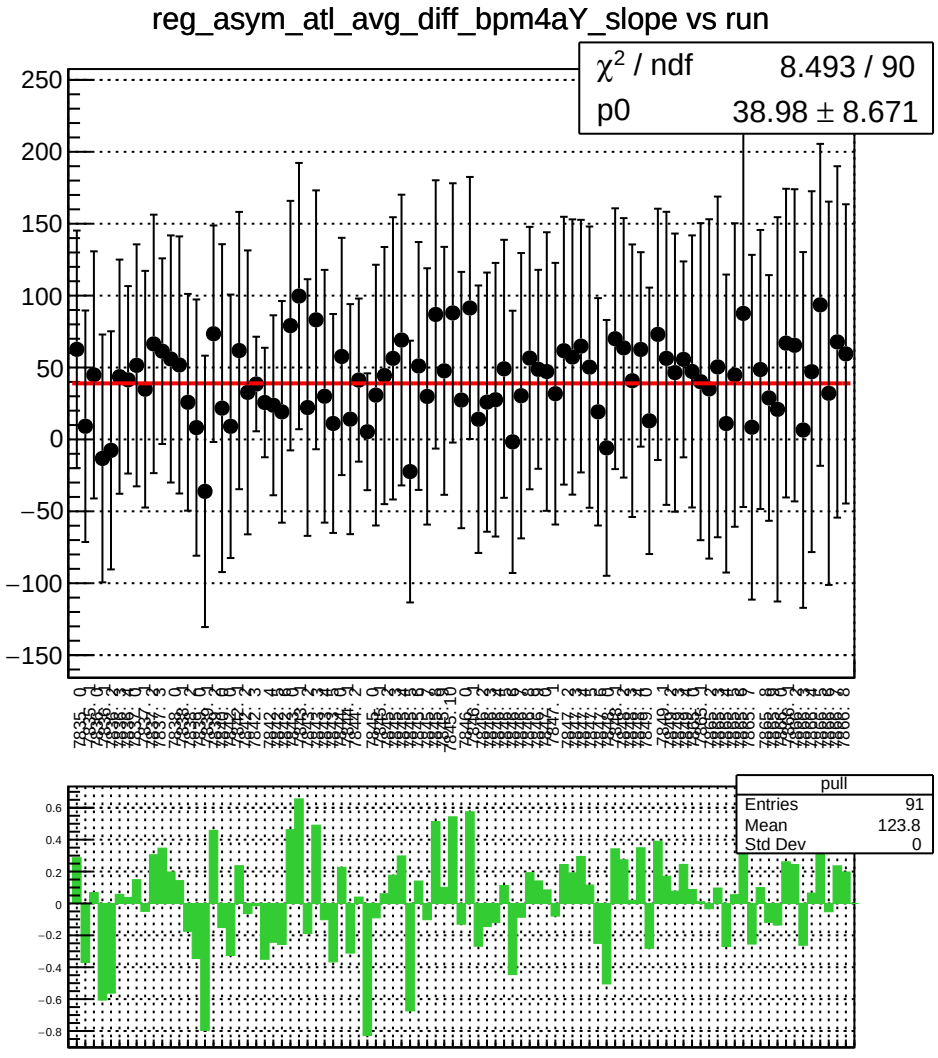

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.191 / 90
p0 9.277 ± 27.7
400
200
0
−200
−400
−600
pull
Entries 91
Mean 613.6
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

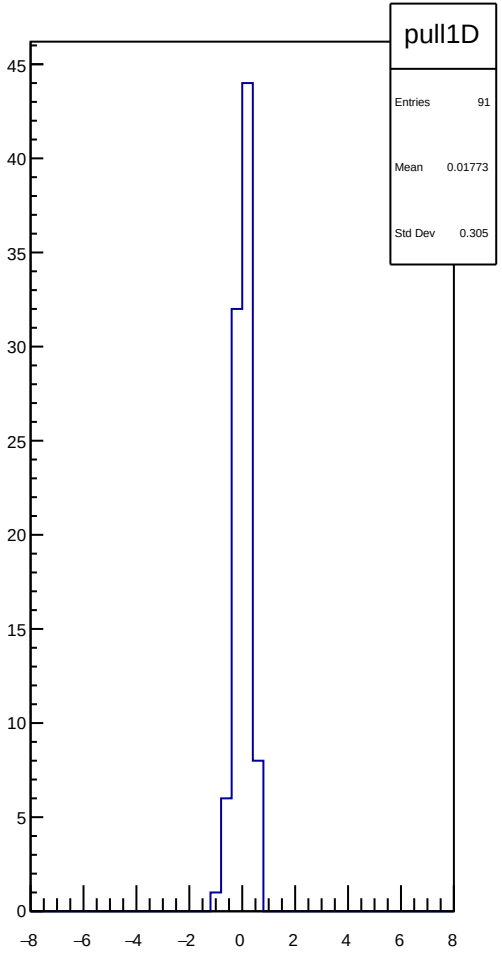

pull1D
Entries 91
Mean −0.001115
Std Dev 0.1873
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

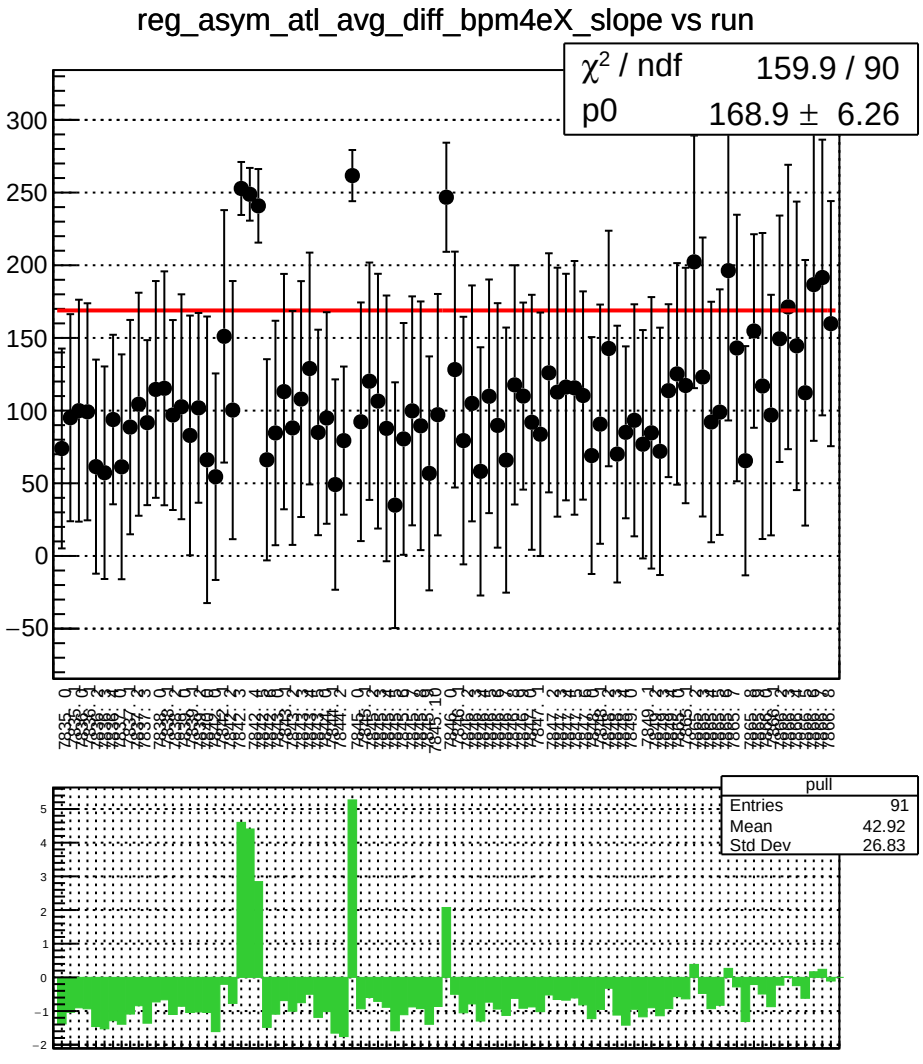

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 76.74 / 90
p0 −295 ± 0.8561
pull
Entries 91
Mean −195.4
Std Dev 0
pull1D
Entries 91
Mean −0.009057
Std Dev 0.9183

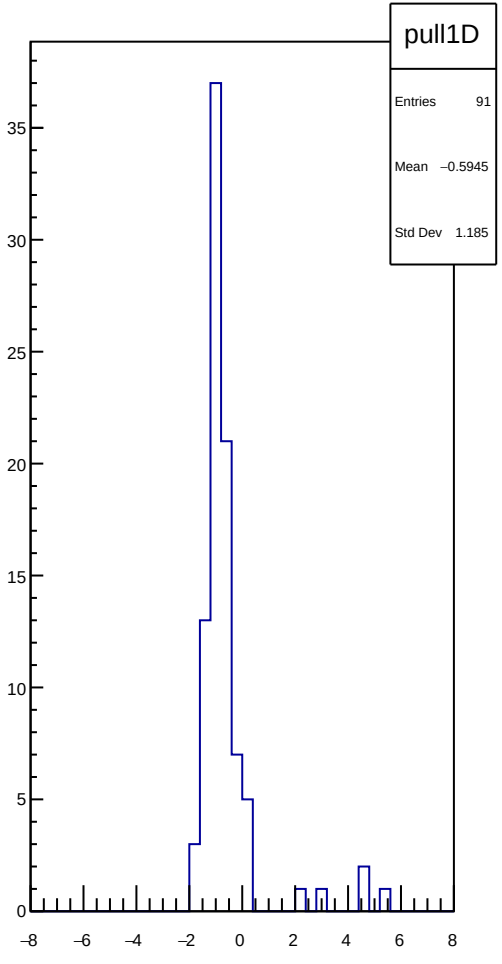

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 127.8 / 90
p0 −183.2 ± 7.22
pull
Entries 91
Mean 39.72
Std Dev 25.49

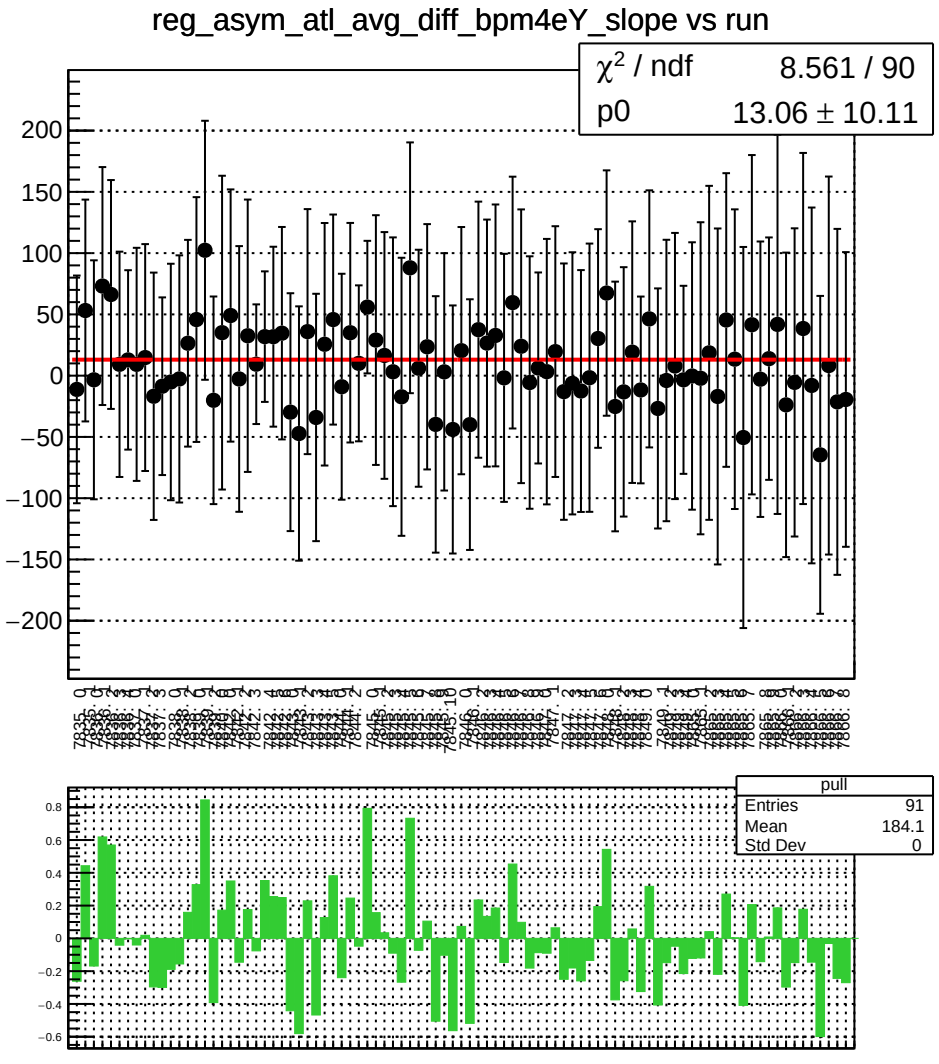

pull1D
Entries 91
Mean 0.4454
Std Dev 1.098

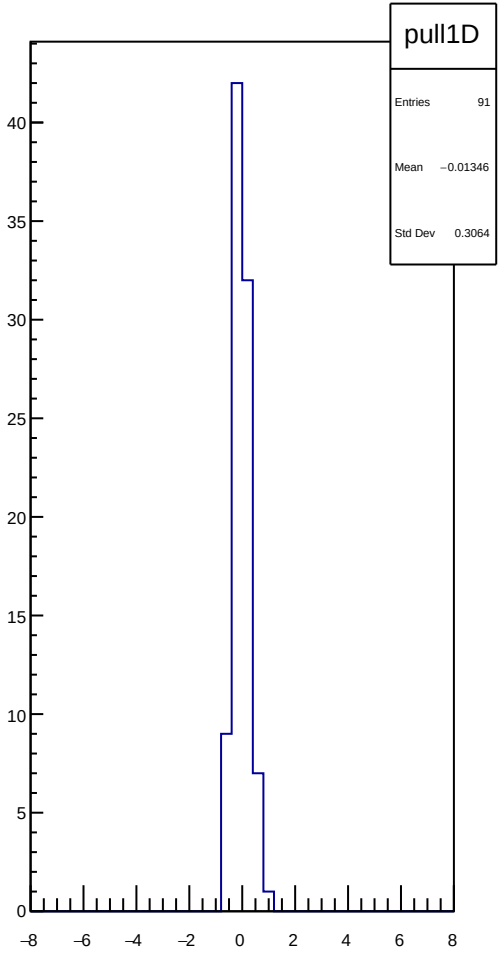

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.493 / 90
p0 38.98 ± 8.671
pull
Entries 91
Mean 123.8
Std Dev 0

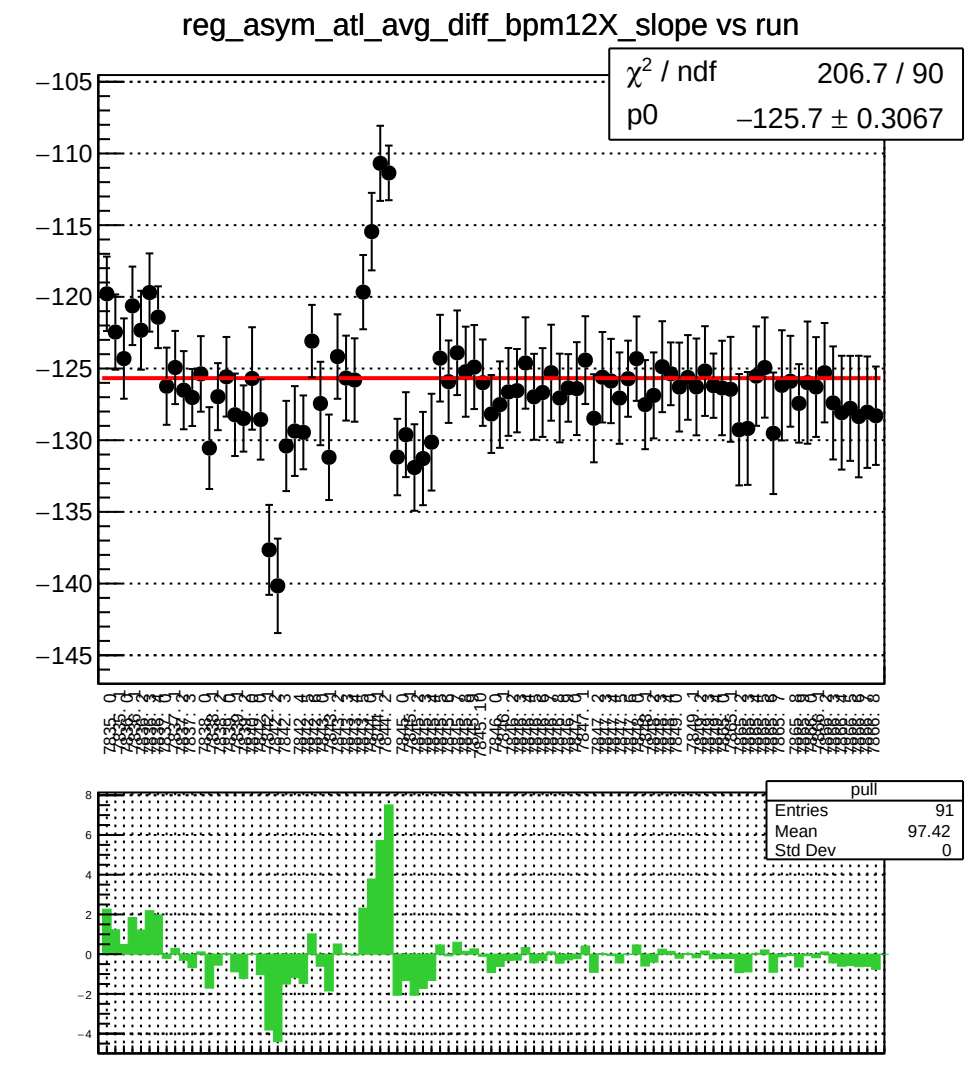

pull1D
Entries 91
Mean 0.01773
Std Dev 0.305

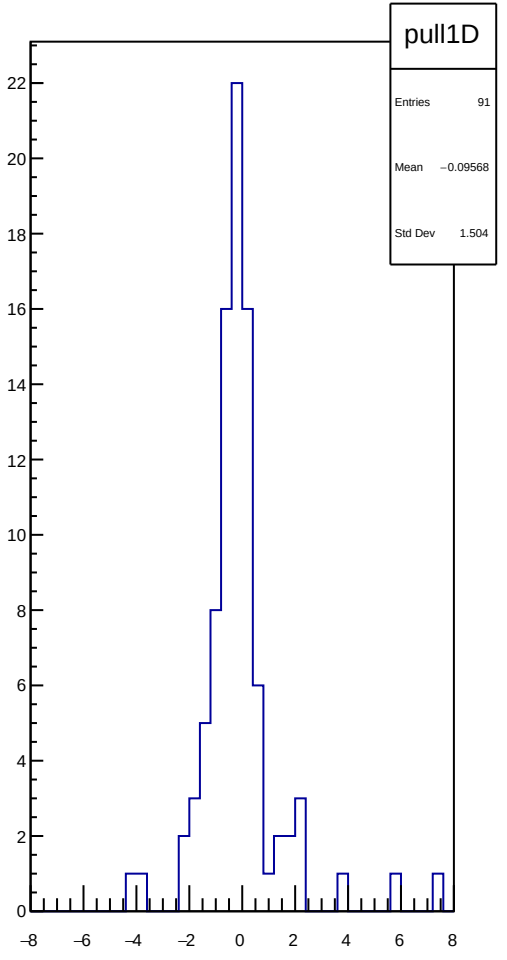

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 159.9 / 90
p0 168.9 ± 6.26
pull
Entries 91
Mean 42.92
Std Dev 26.83

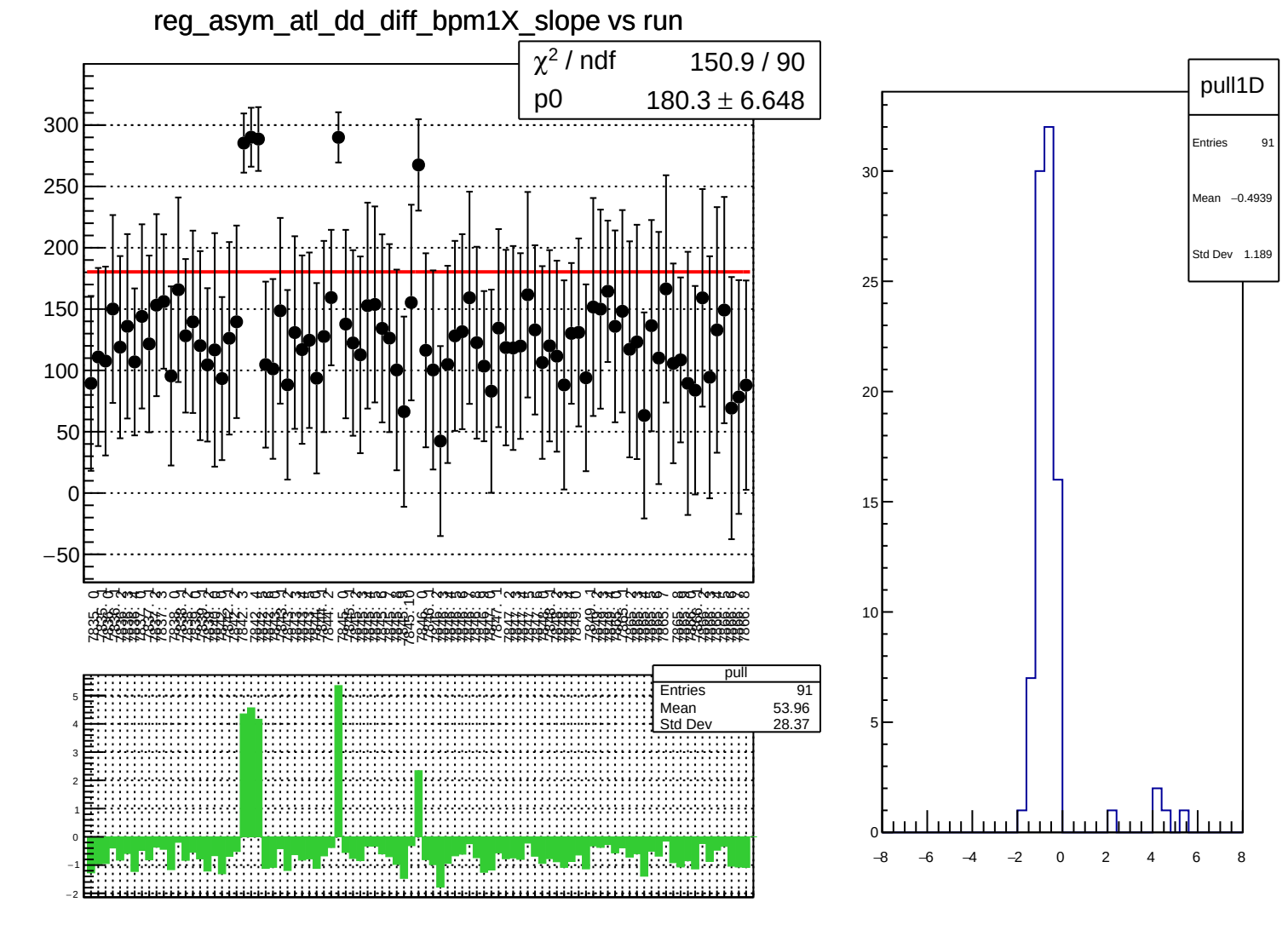

pull1D
Entries 91
Mean −0.5945
Std Dev 1.185

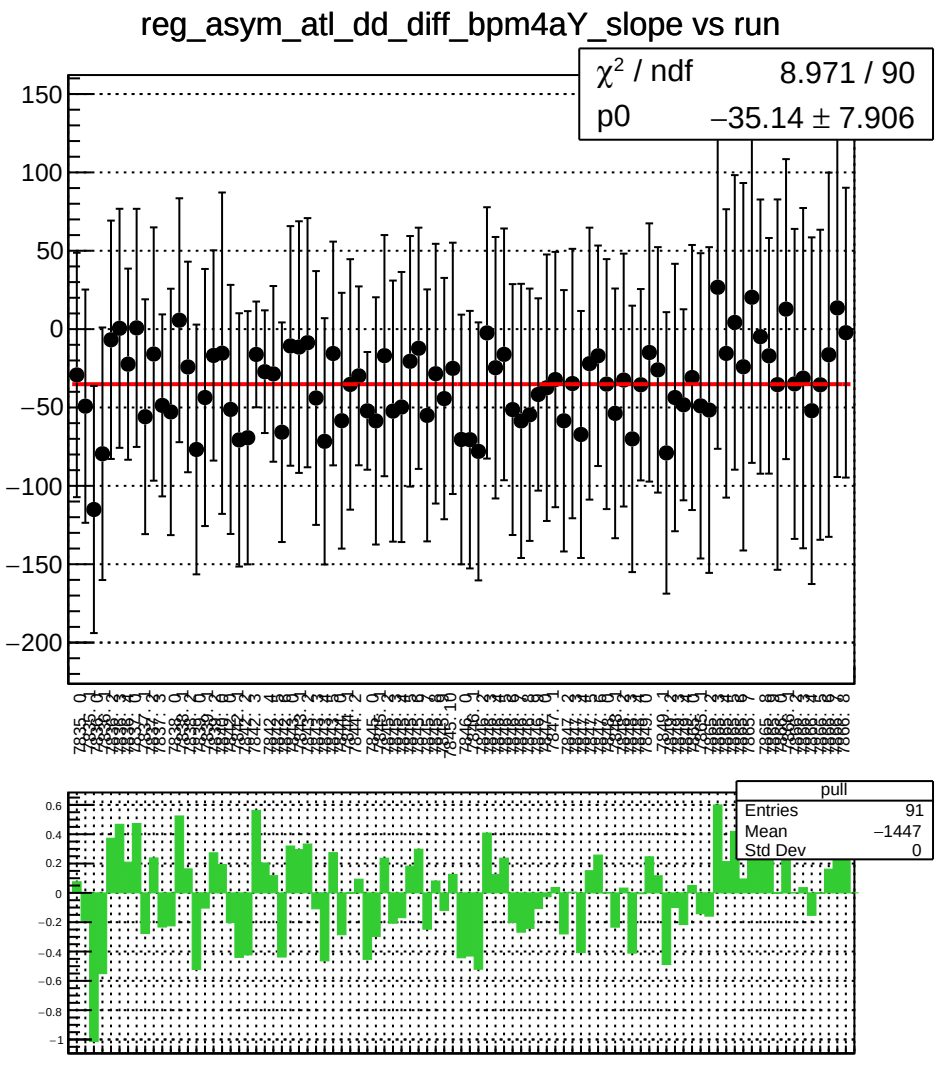

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.561 / 90
p0 13.06 ± 10.11
pull
Entries 91
Mean 184.1
Std Dev 0

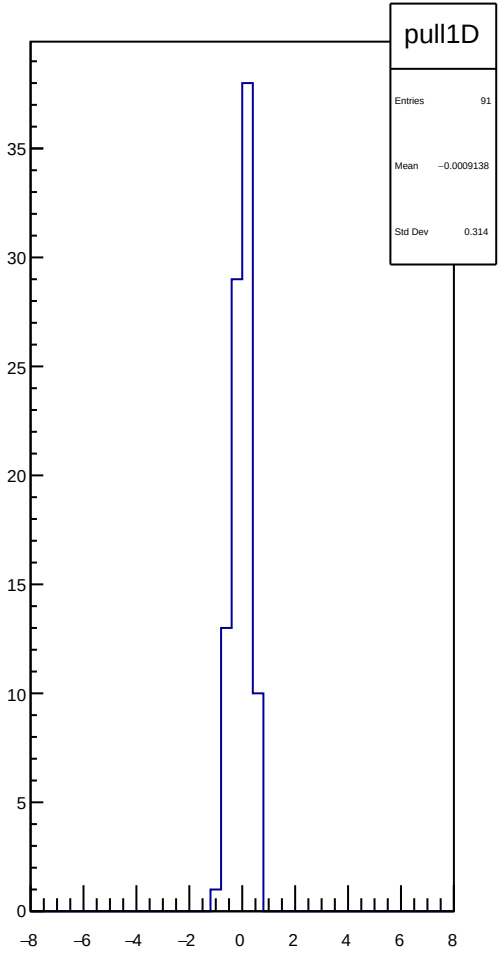

pull1D
Entries 91
Mean −0.01346
Std Dev 0.3064

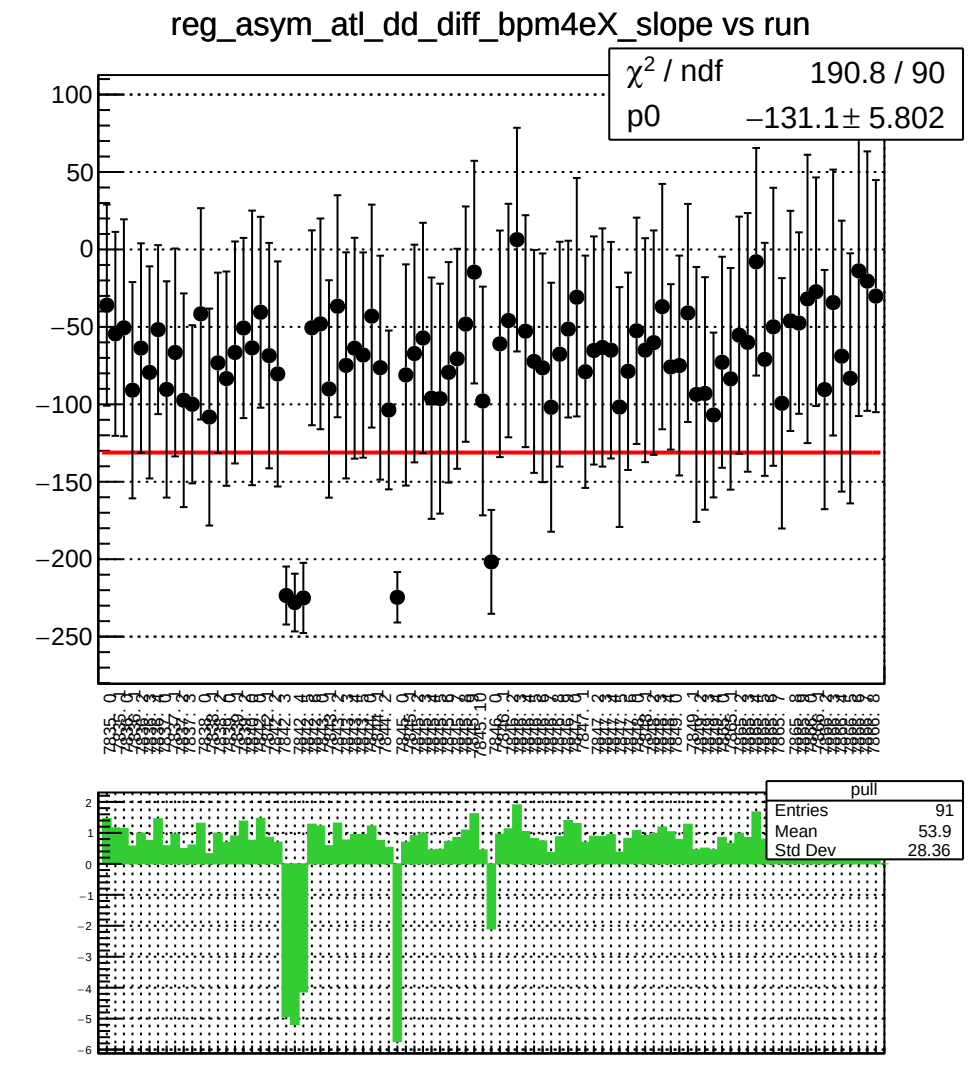

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 206.7 / 90
p0 −125.7 ± 0.3067
pull
Entries 91
Mean 97.42
Std Dev 0

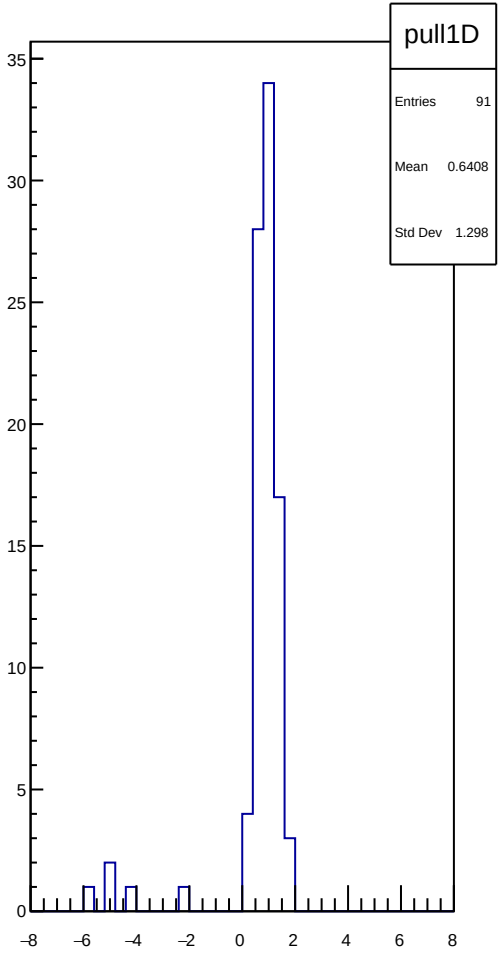

pull1D
Entries 91
Mean −0.09568
Std Dev 1.504

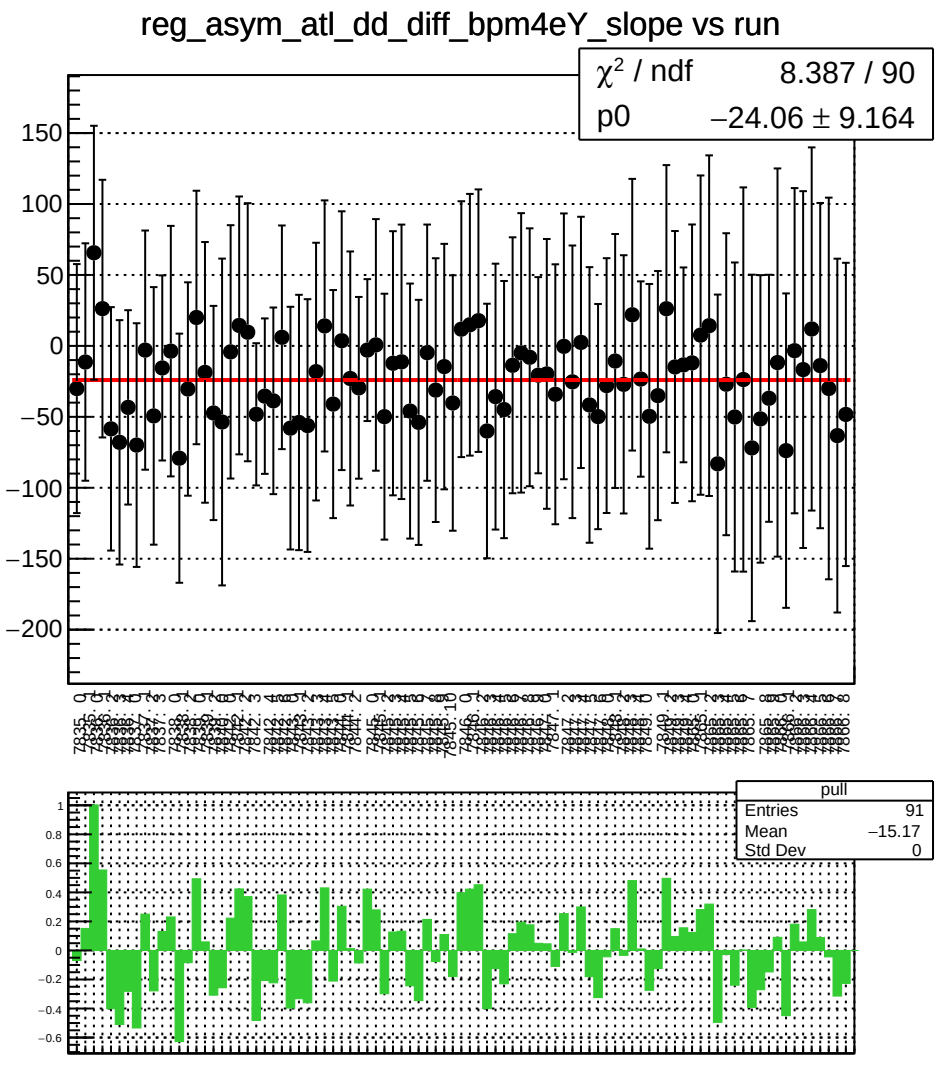

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 150.9 / 90
p0 180.3 ± 6.648
pull
Entries 91
Mean 53.96
Std Dev 28.37
pull1D
Entries 91
Mean −0.4939
Std Dev 1.189

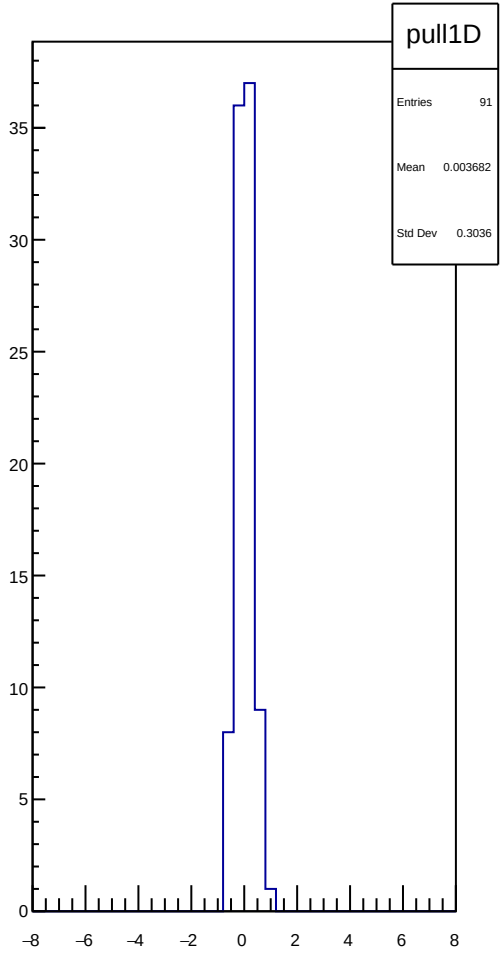

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.971 / 90
p0 −35.14 ± 7.906
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −1447
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

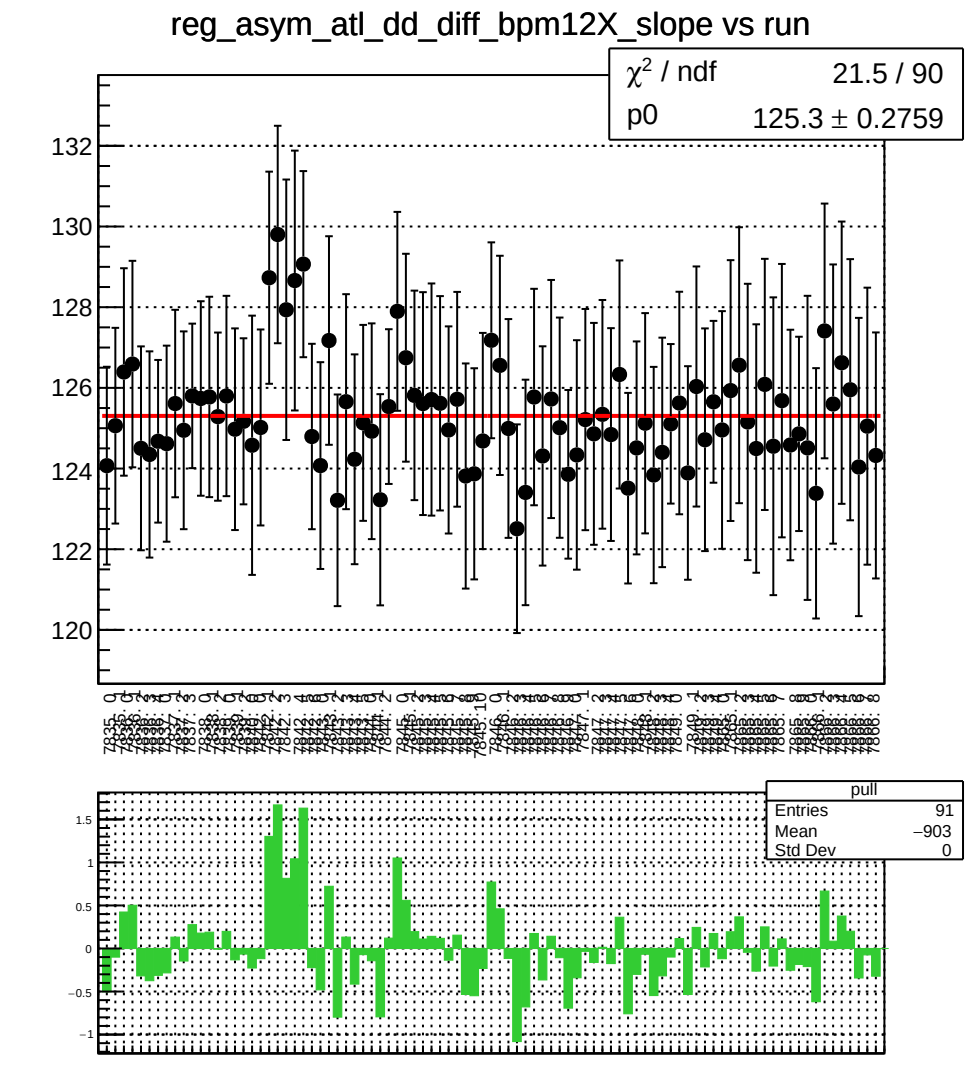

pull1D
Entries 91
Mean −0.0009138
Std Dev 0.314
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

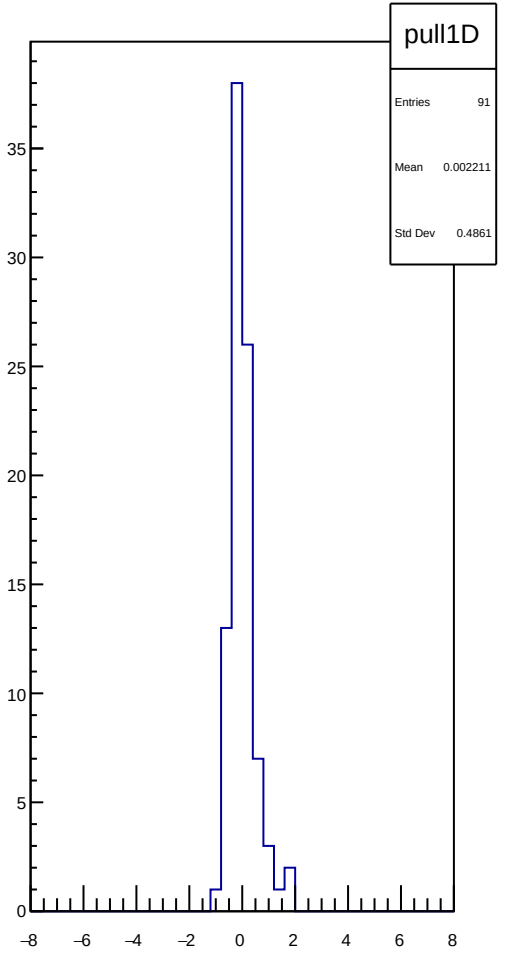

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 190.8 / 90
p0 −131.1 ± 5.802
pull
Entries 91
Mean 53.9
Std Dev 28.36

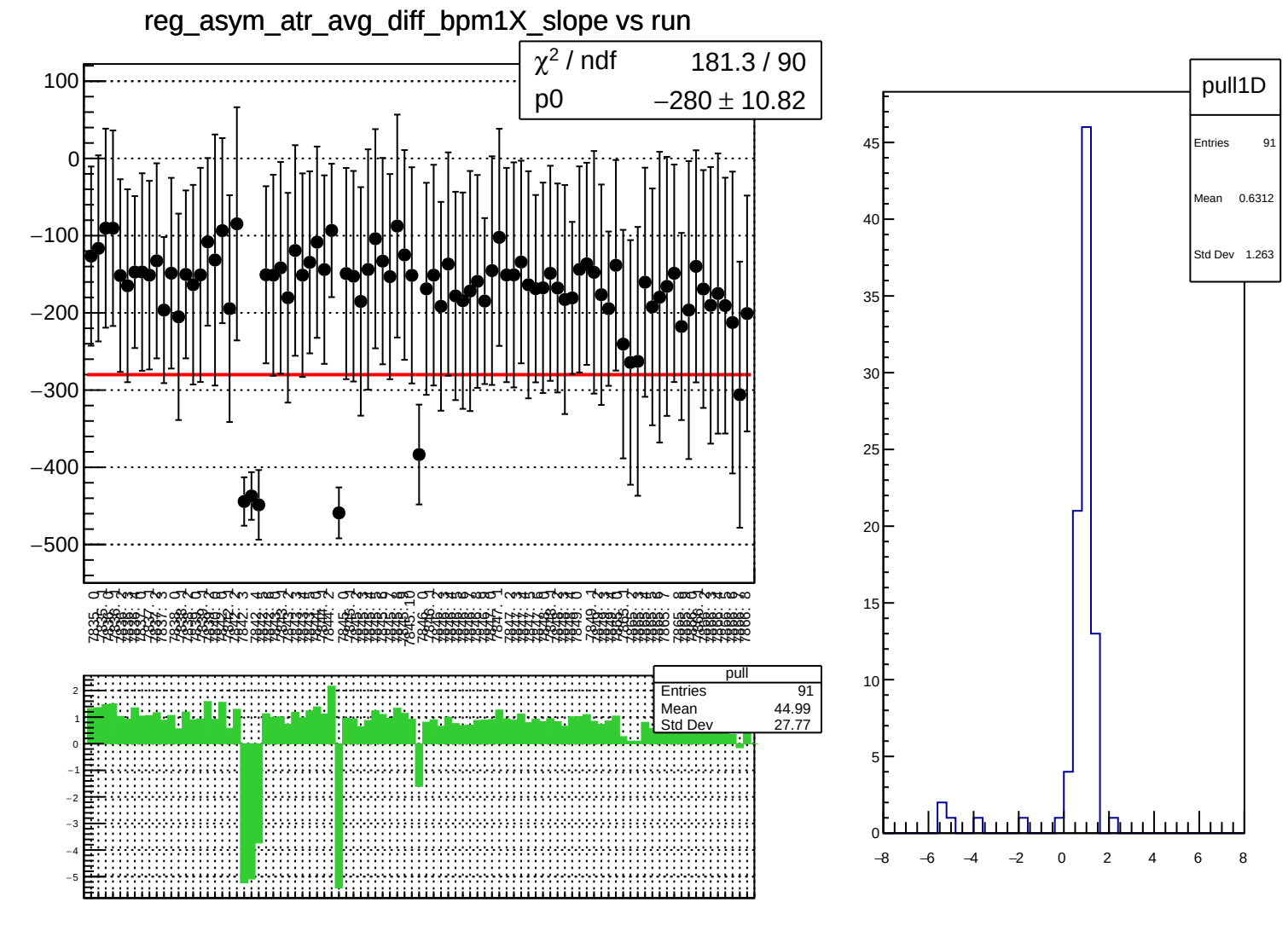

pull1D
Entries 91
Mean 0.6408
Std Dev 1.298

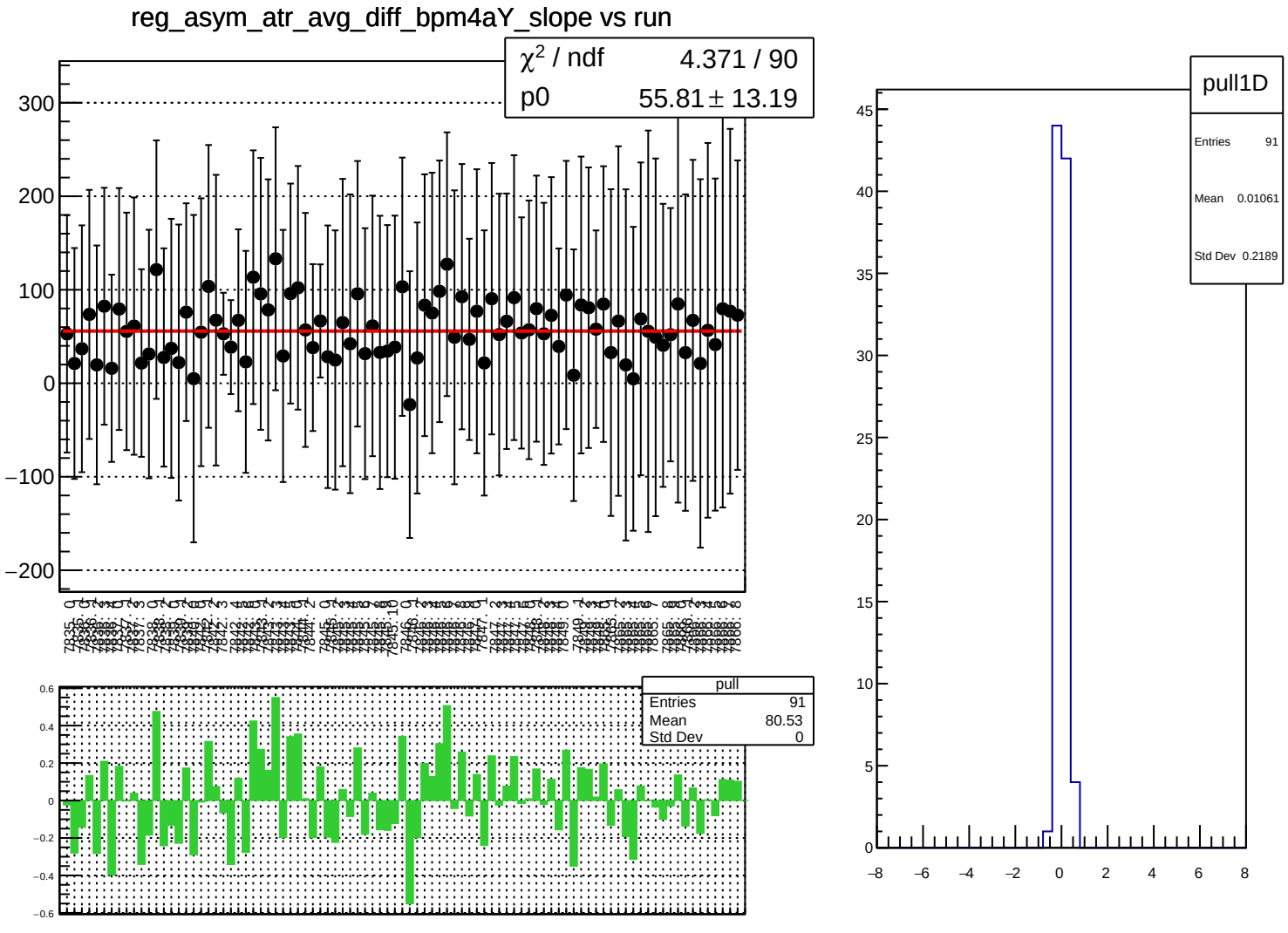

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.387 / 90
p0 −24.06 ± 9.164
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −15.17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

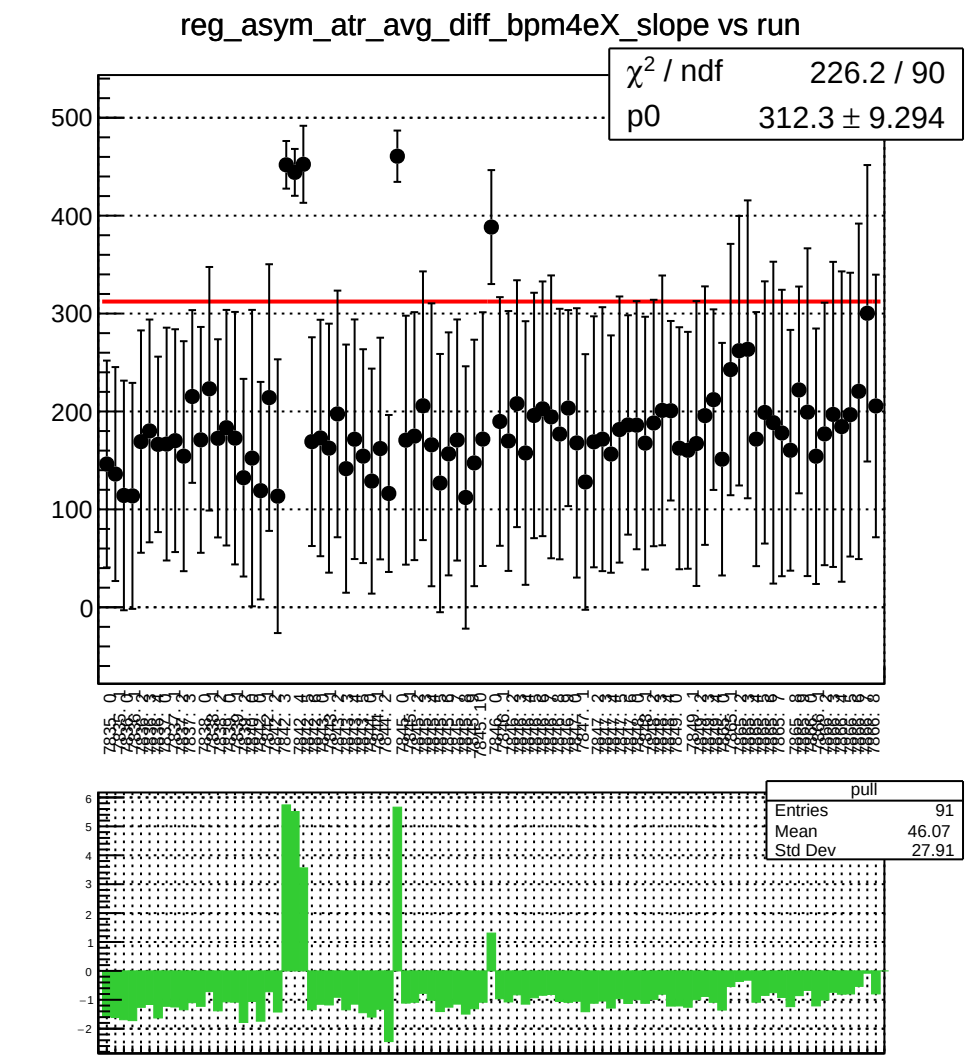

pull1D
Entries 91
Mean 0.003682
Std Dev 0.3036
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

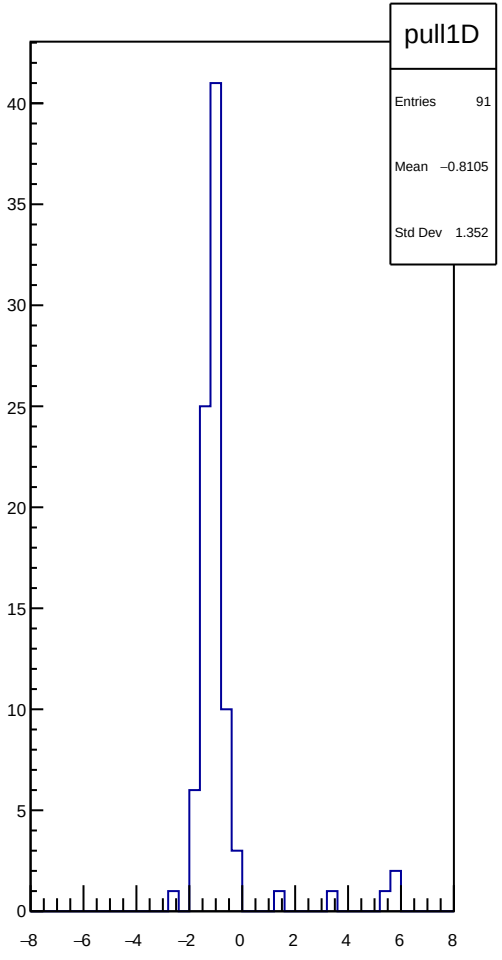

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 21.5 / 90
p0 125.3 ± 0.2759
132
130
128
126
124
122
120
pull
Entries 91
Mean −903
Std Dev 0
1.5
1
0.5
0
−0.5
−1

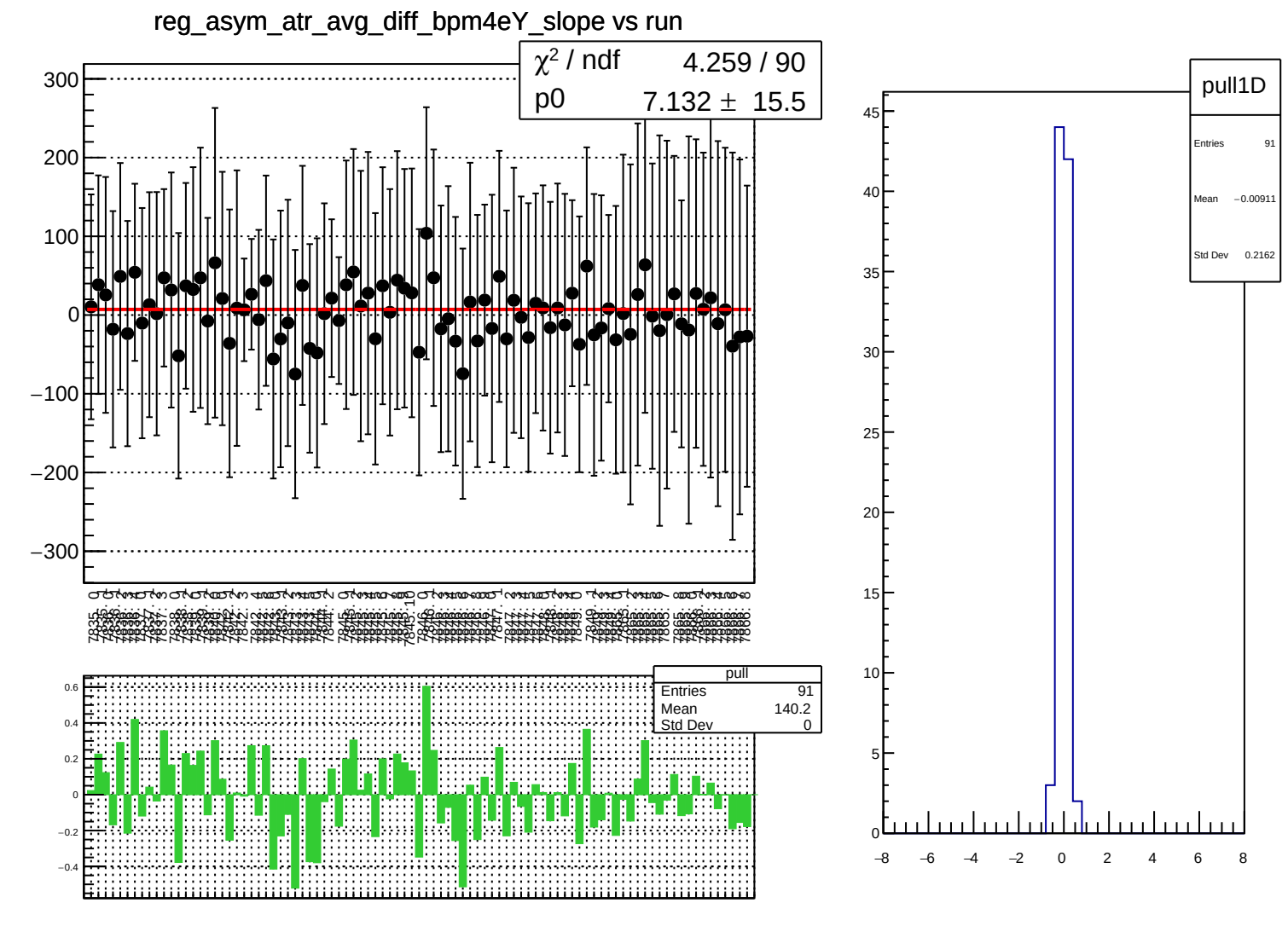

pull1D
Entries 91
Mean 0.002211
Std Dev 0.4861
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

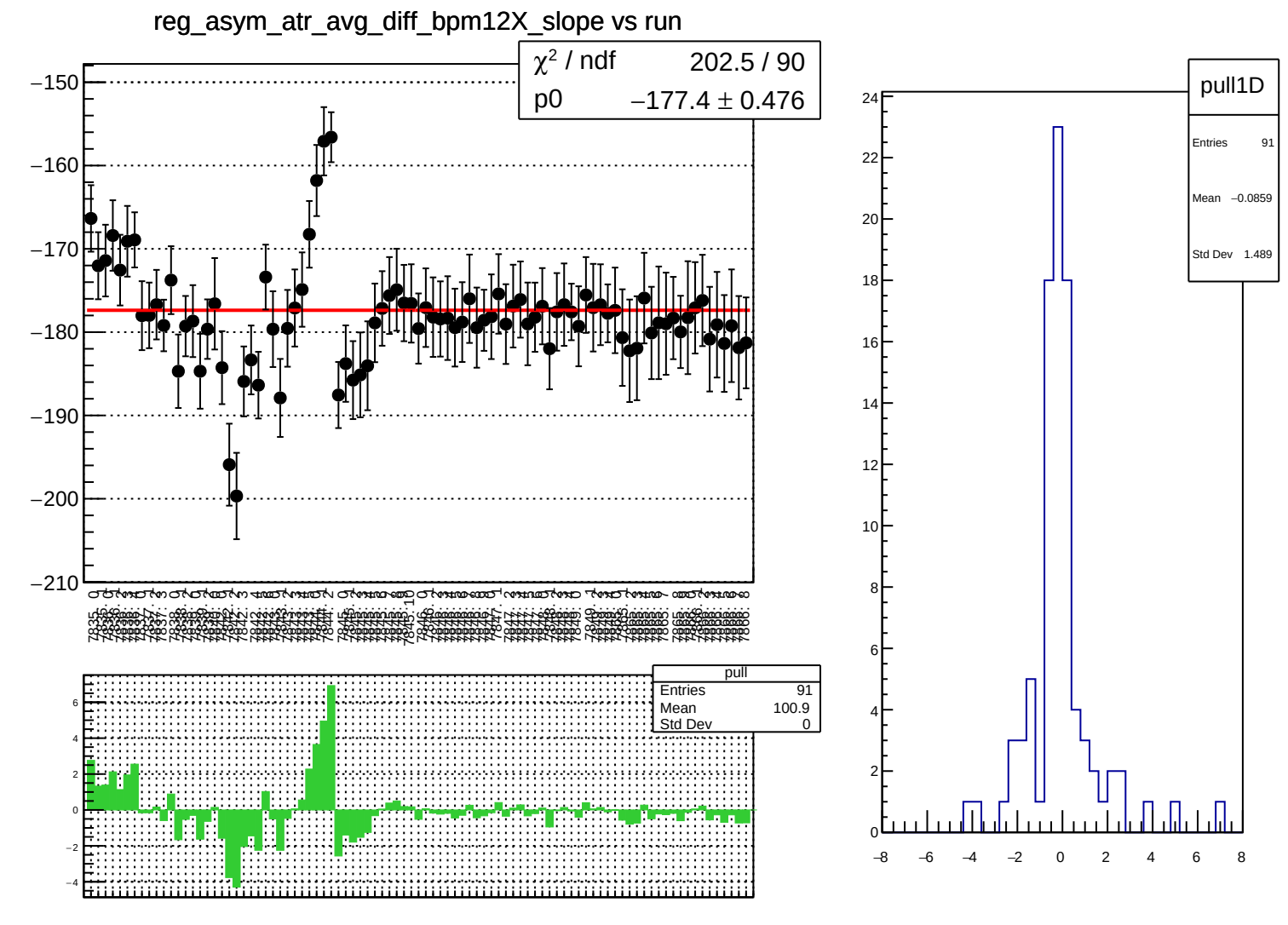

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 181.3 / 90
p0 −280 ± 10.82
pull
Entries 91
Mean 44.99
Std Dev 27.77
pull1D
Entries 91
Mean 0.6312
Std Dev 1.263

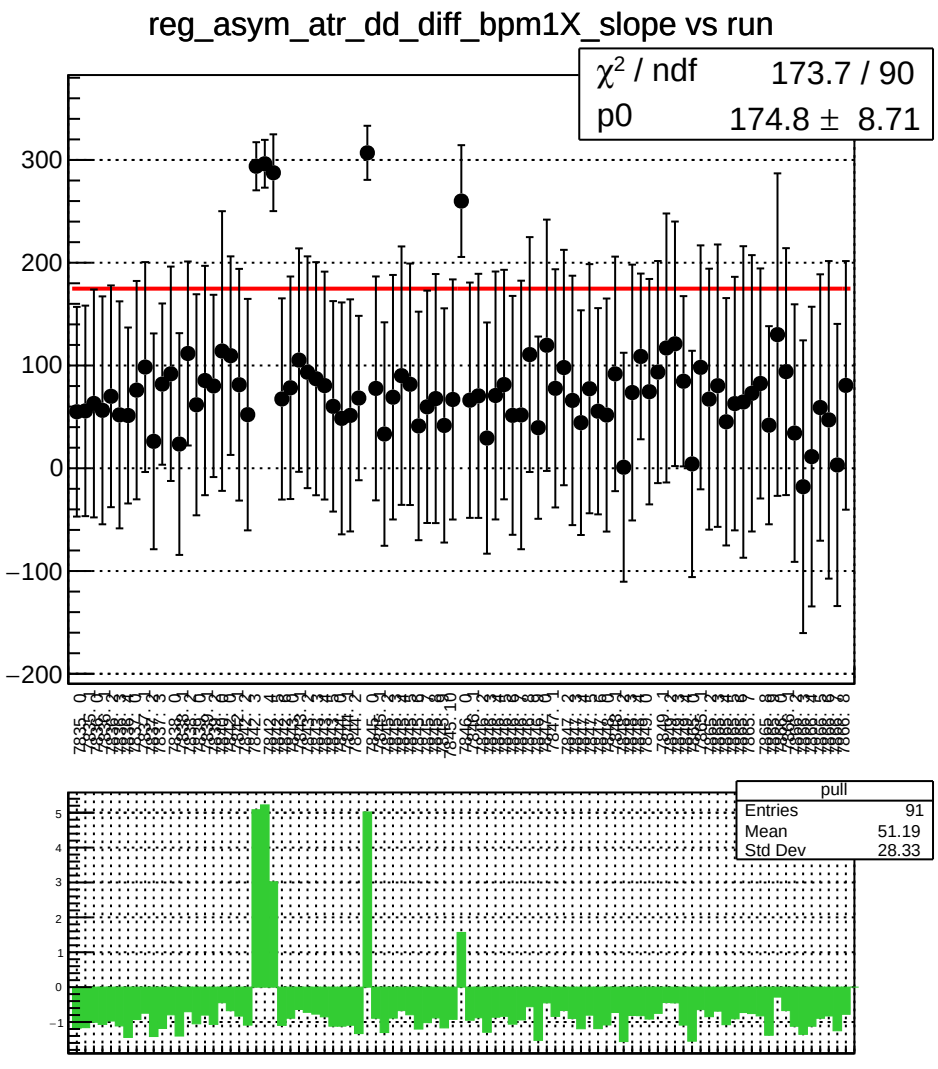

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.371 / 90
p0 55.81 ± 13.19
pull
Entries 91
Mean 80.53
Std Dev 0
pull1D
Entries 91
Mean 0.01061
Std Dev 0.2189

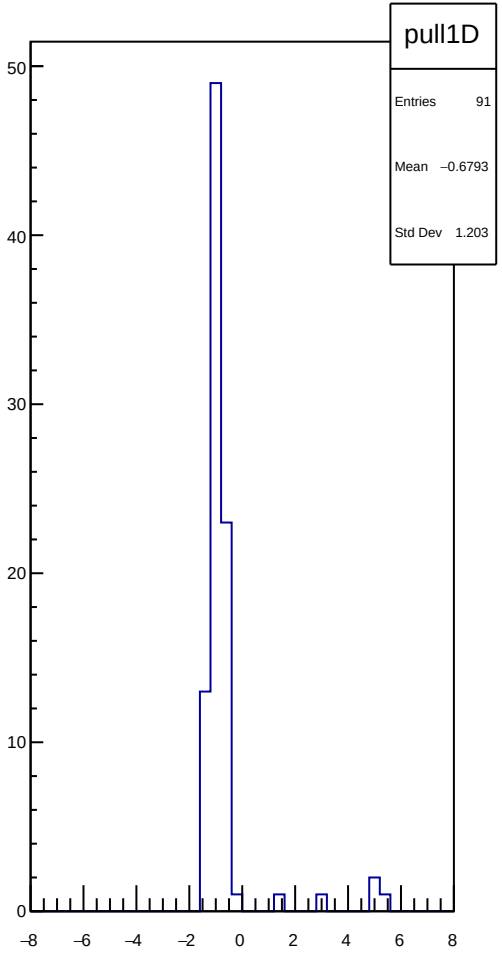

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 226.2 / 90
p0 312.3 ± 9.294
pull
Entries 91
Mean 46.07
Std Dev 27.91

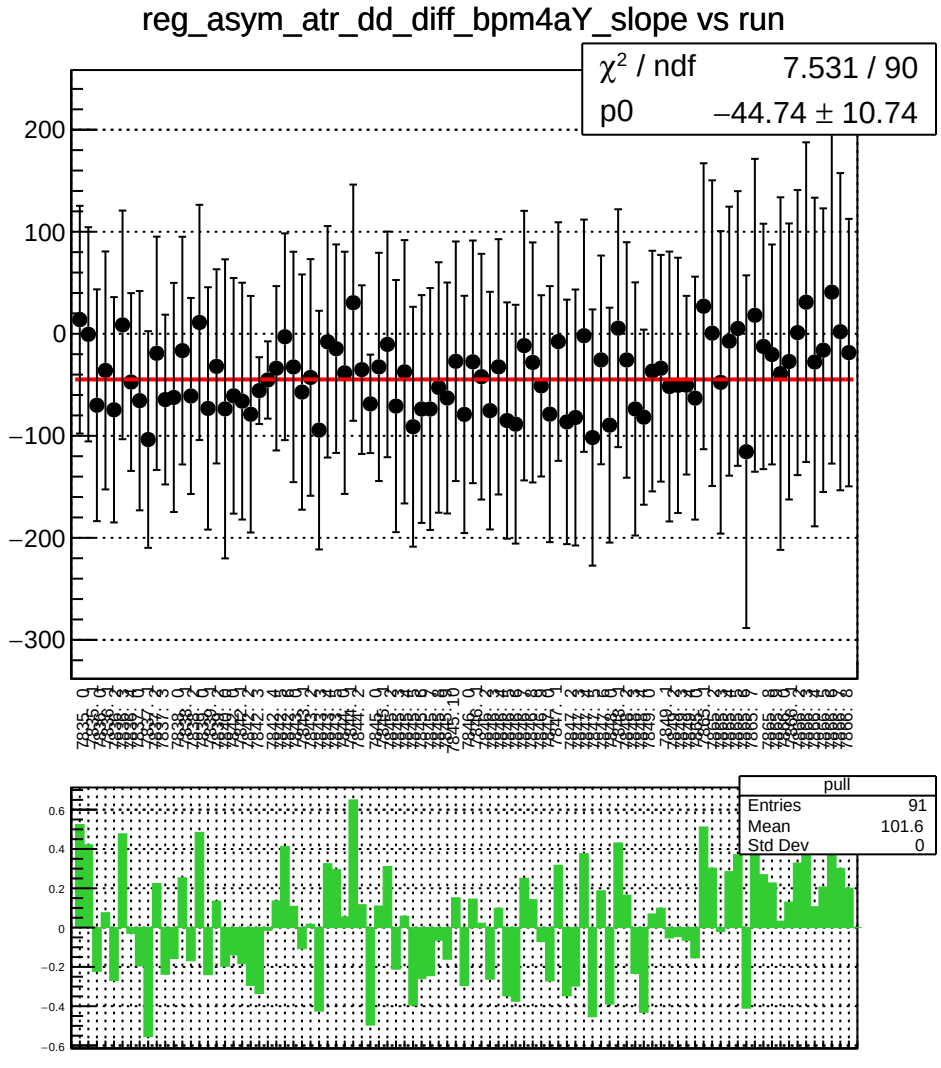

pull1D
Entries 91
Mean −0.8105
Std Dev 1.352

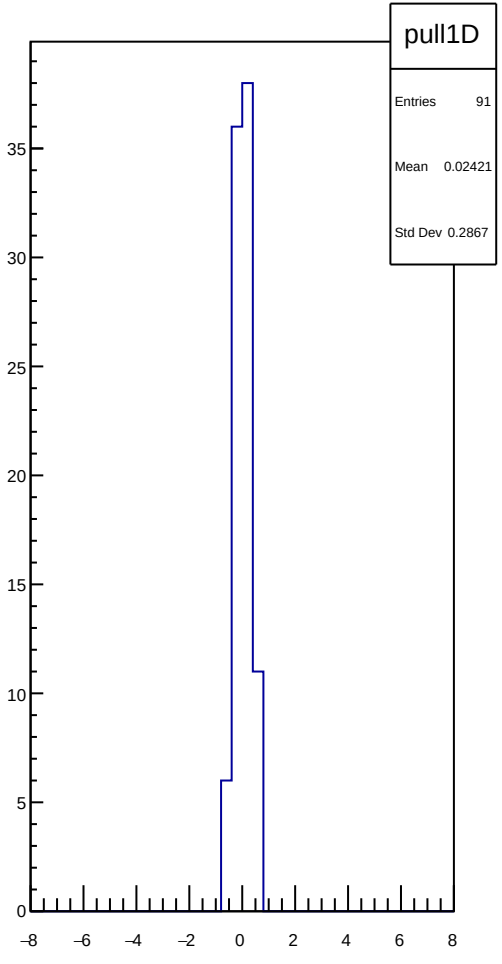

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.259 / 90
p0 7.132 ± 15.5
pull
Entries 91
Mean 140.2
Std Dev 0
pull1D
Entries 91
Mean −0.00911
Std Dev 0.2162

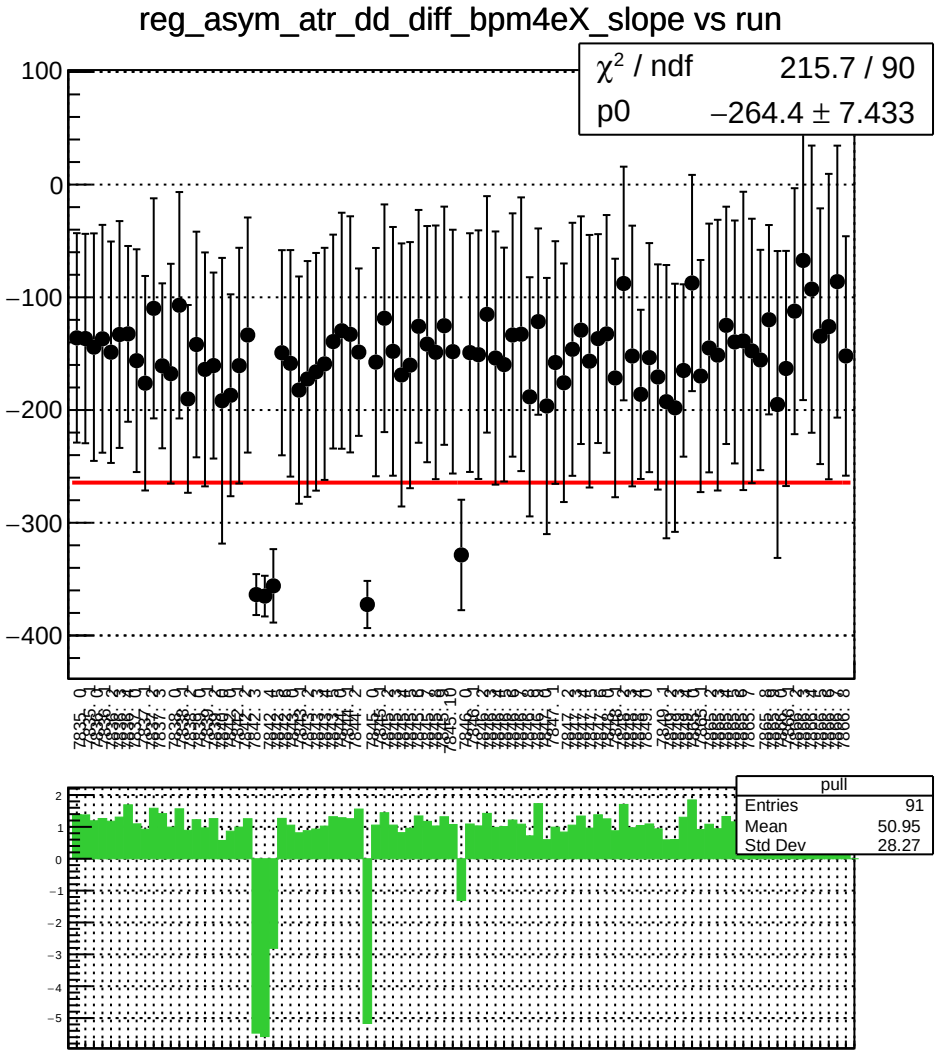

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 202.5 / 90
p0 −177.4 ± 0.476
pull
Entries 91
Mean 100.9
Std Dev 0
pull1D
Entries 91
Mean −0.0859
Std Dev 1.489

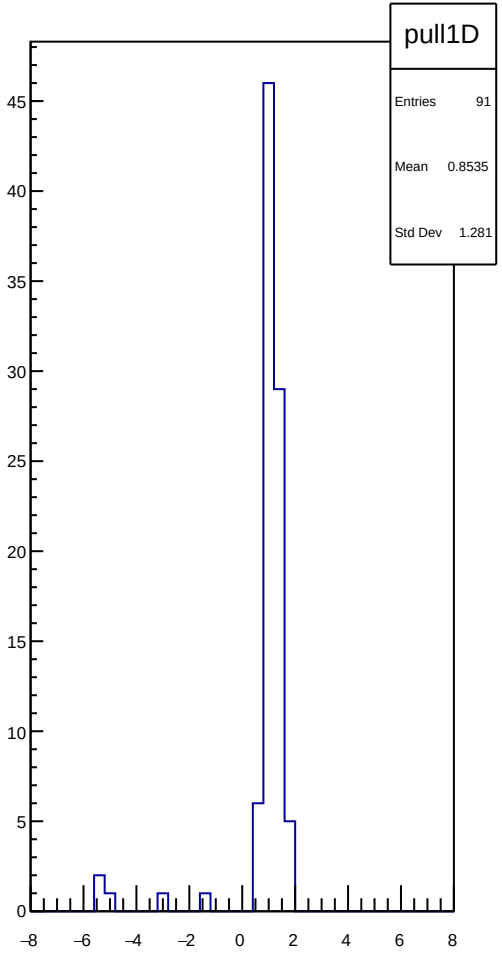

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 173.7 / 90
p0 174.8 ± 8.71
300
200
100
0
−100
−200
pull
Entries 91
Mean 51.19
Std Dev 28.33
5
4
3
2
1
0
−1

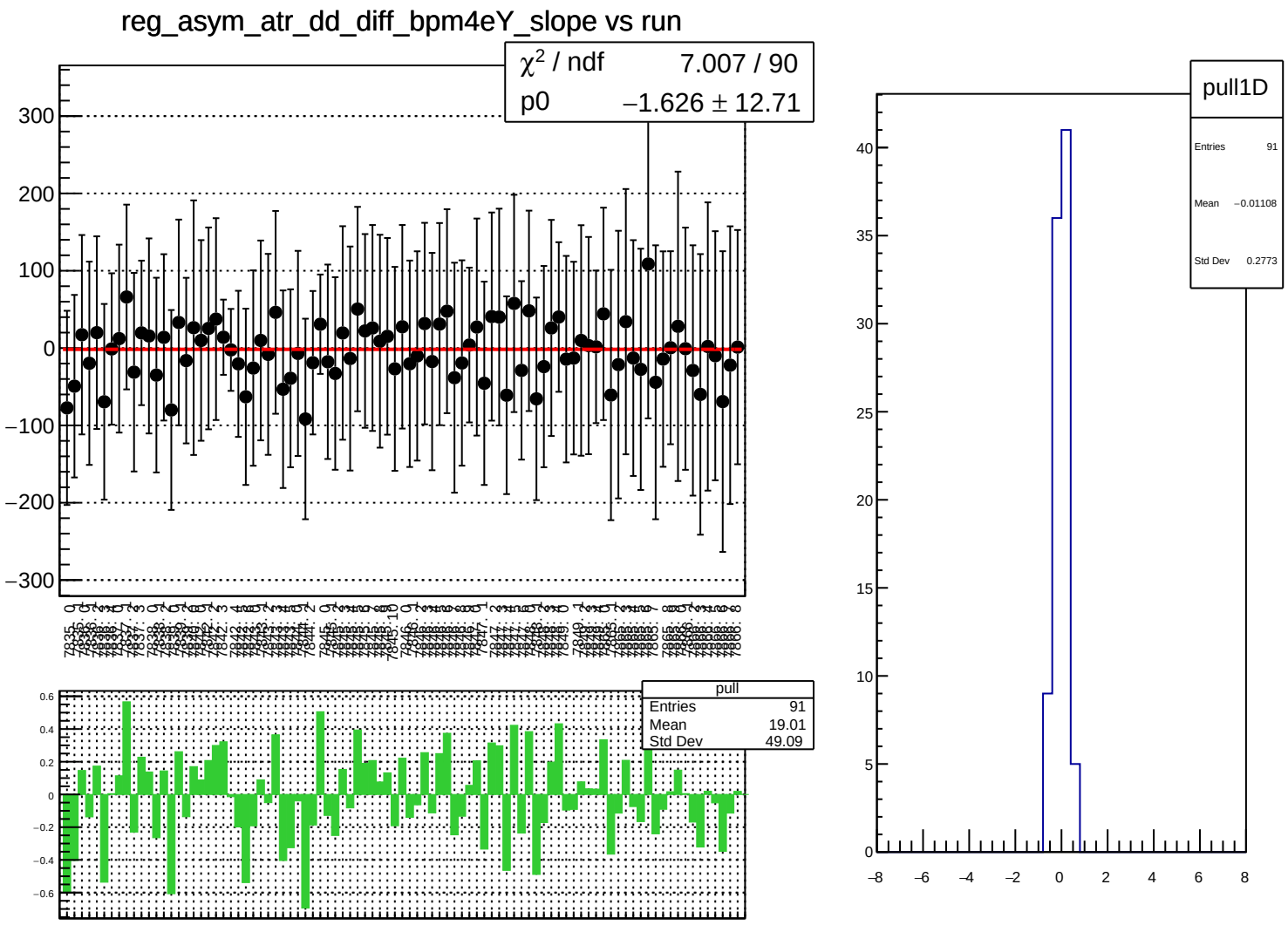

pull1D
Entries 91
Mean −0.6793
Std Dev 1.203
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

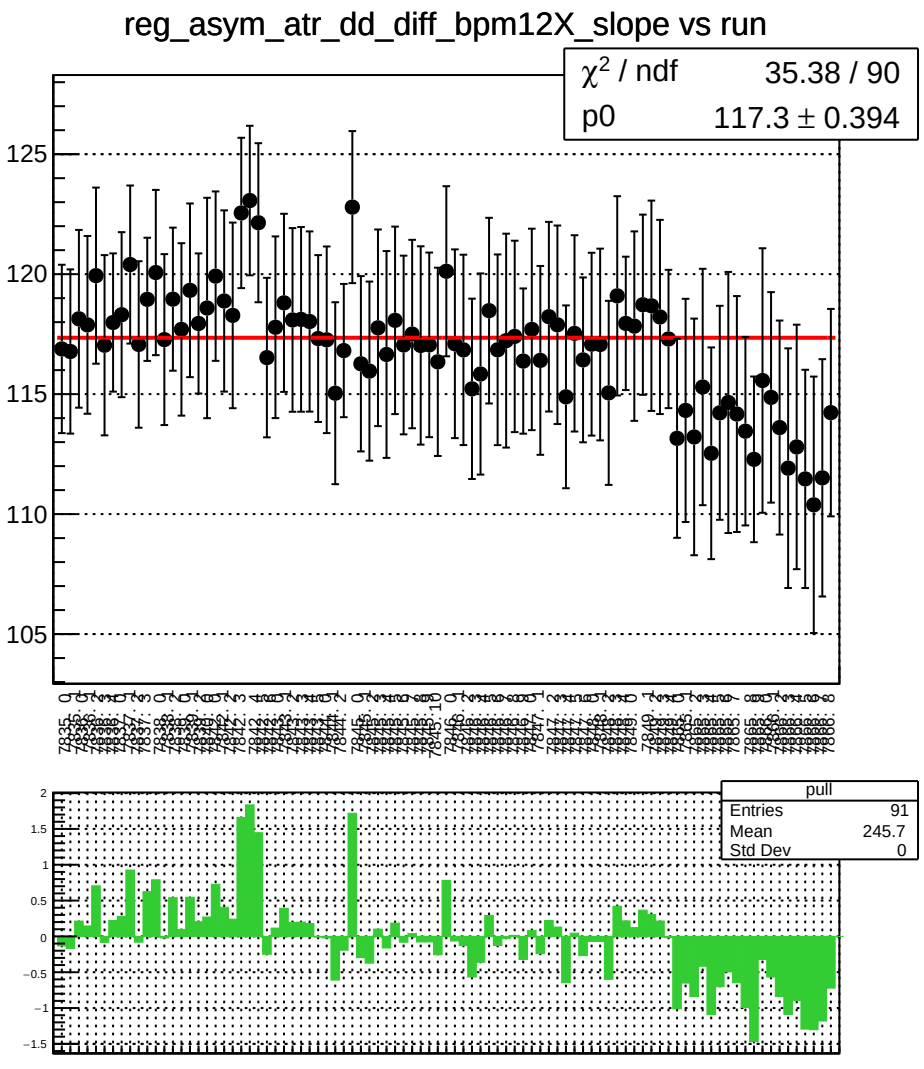

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.531 / 90
p0 −44.74 ± 10.74
pull
Entries 91
Mean 101.6
Std Dev 0

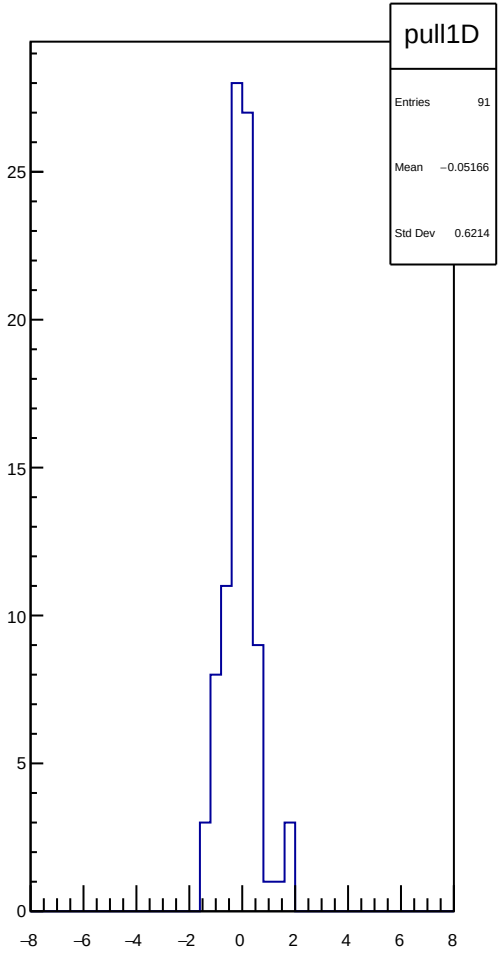

pull1D
Entries 91
Mean 0.02421
Std Dev 0.2867

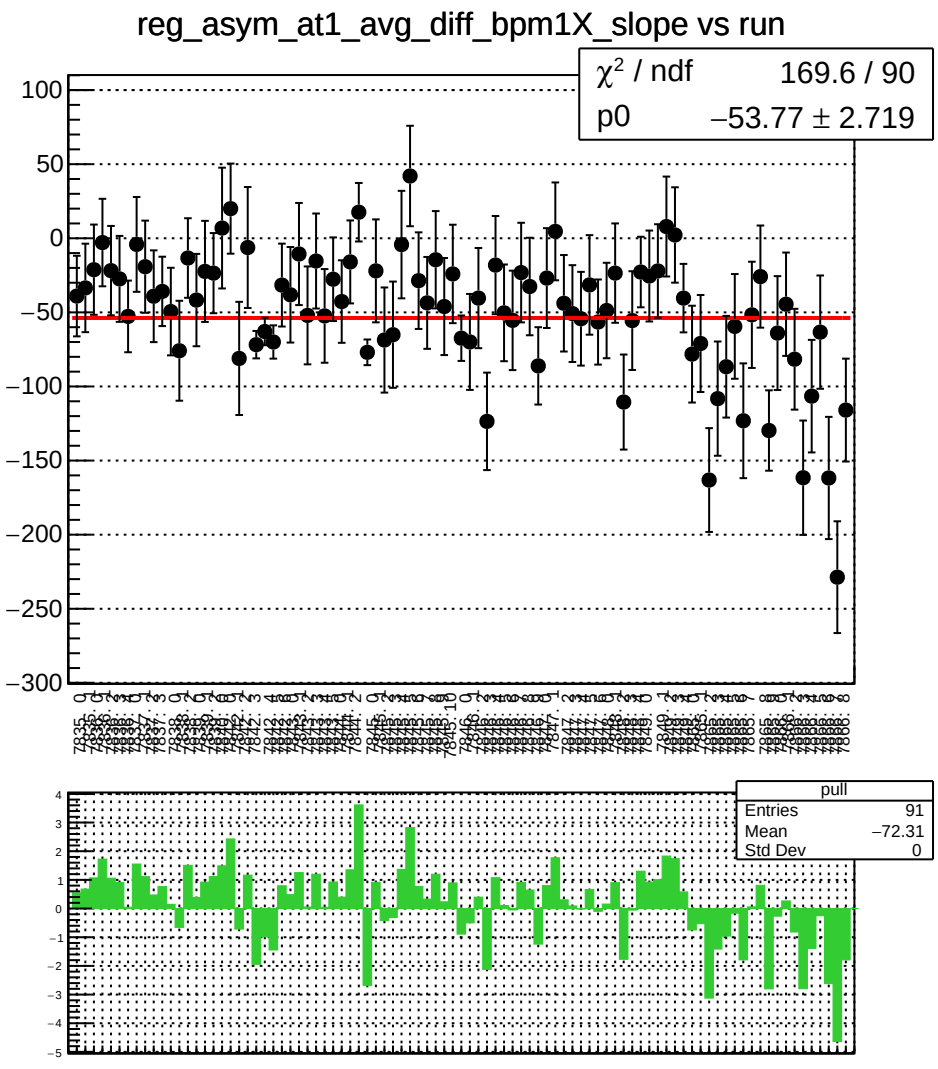

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 215.7 / 90
p0 −264.4 ± 7.433
pull
Entries 91
Mean 50.95
Std Dev 28.27

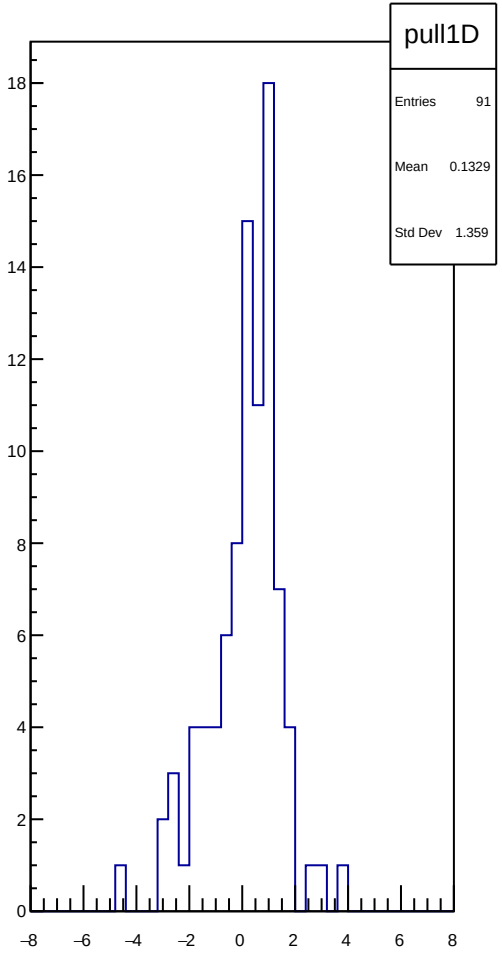

pull1D
Entries 91
Mean 0.8535
Std Dev 1.281

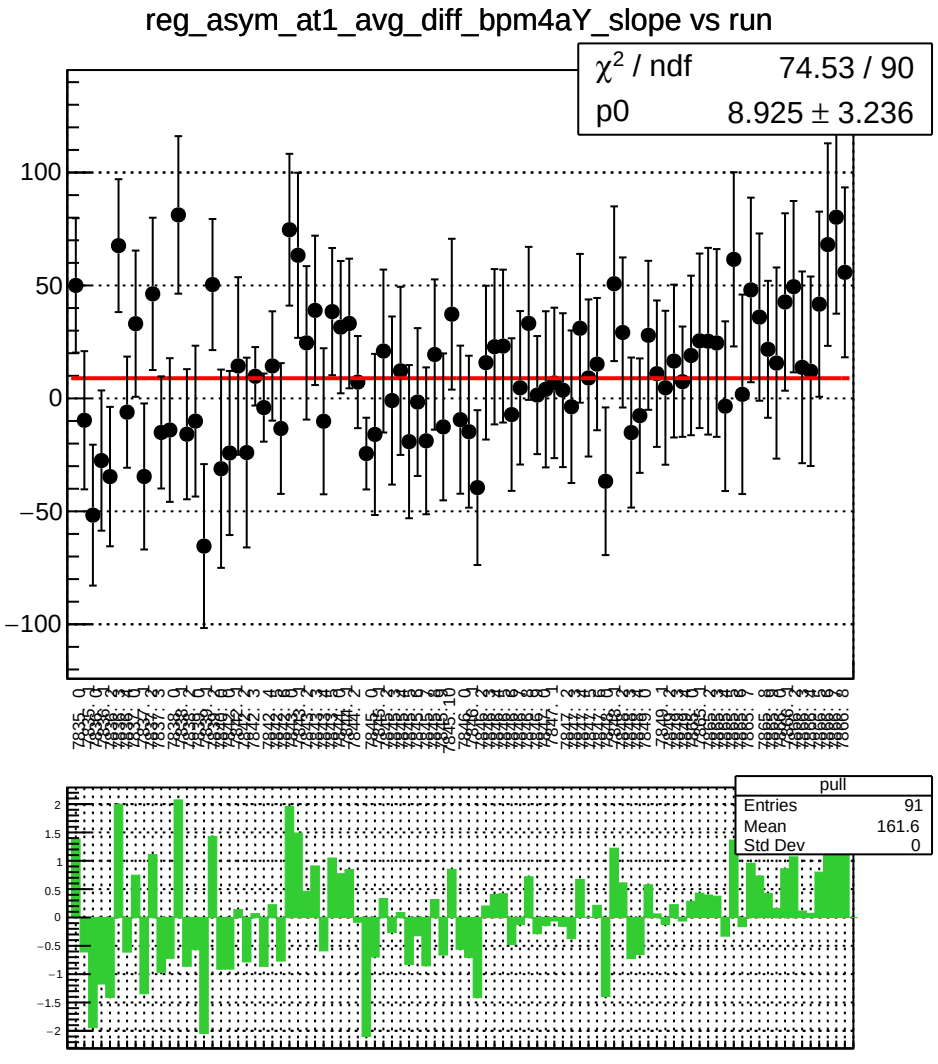

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.007 / 90
p0 −1.626 ± 12.71
pull
Entries 91
Mean 19.01
Std Dev 49.09
pull1D
Entries 91
Mean −0.01108
Std Dev 0.2773

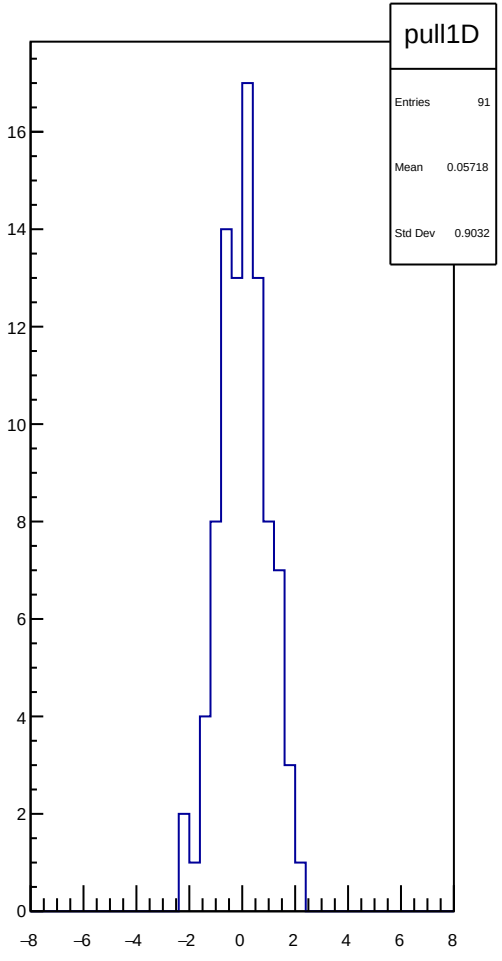

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 35.38 / 90
p0 117.3 ± 0.394
125
120
115
110
105
pull
Entries 91
Mean 245.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

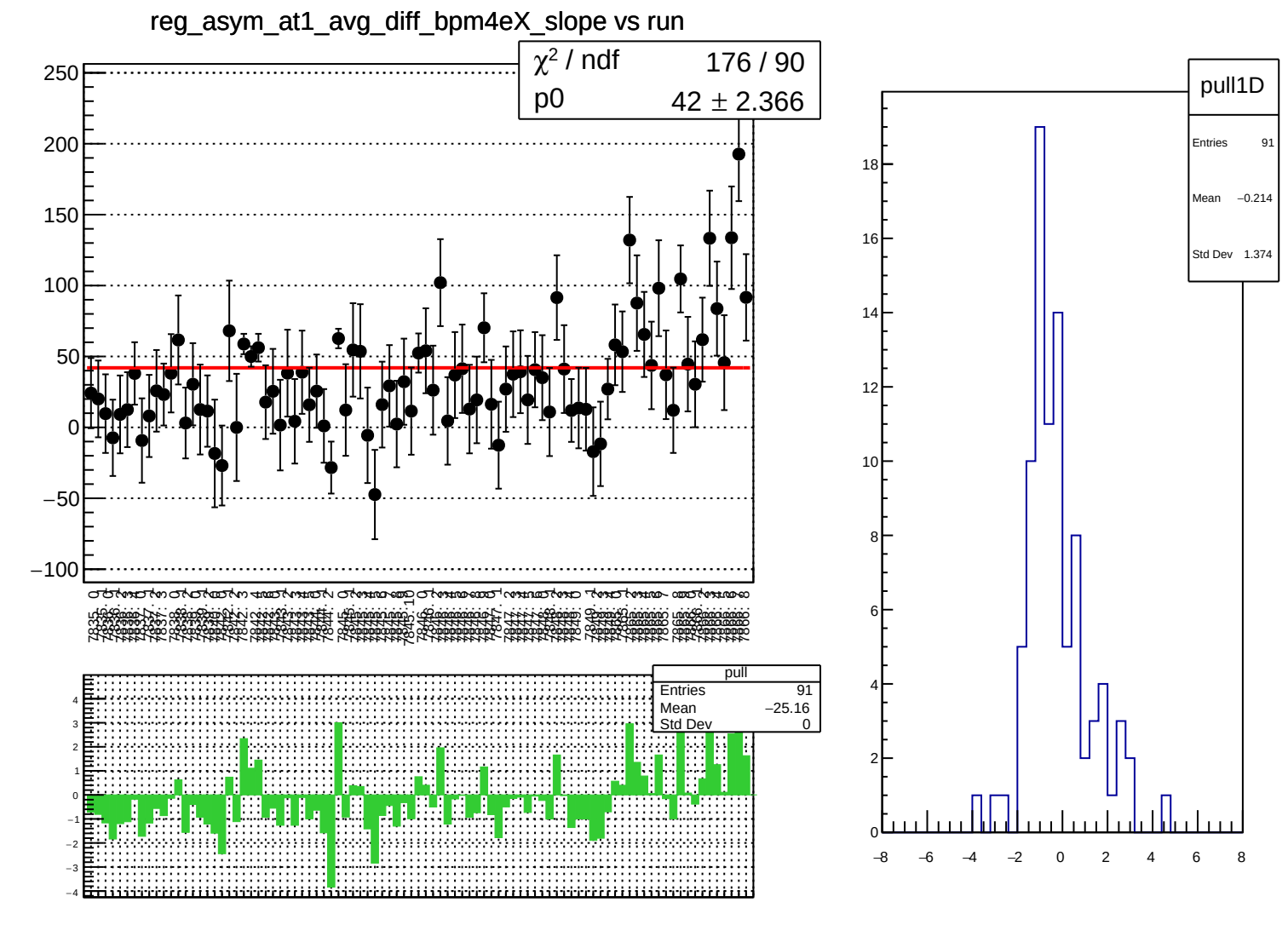

pull1D
Entries 91
Mean −0.05166
Std Dev 0.6214
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

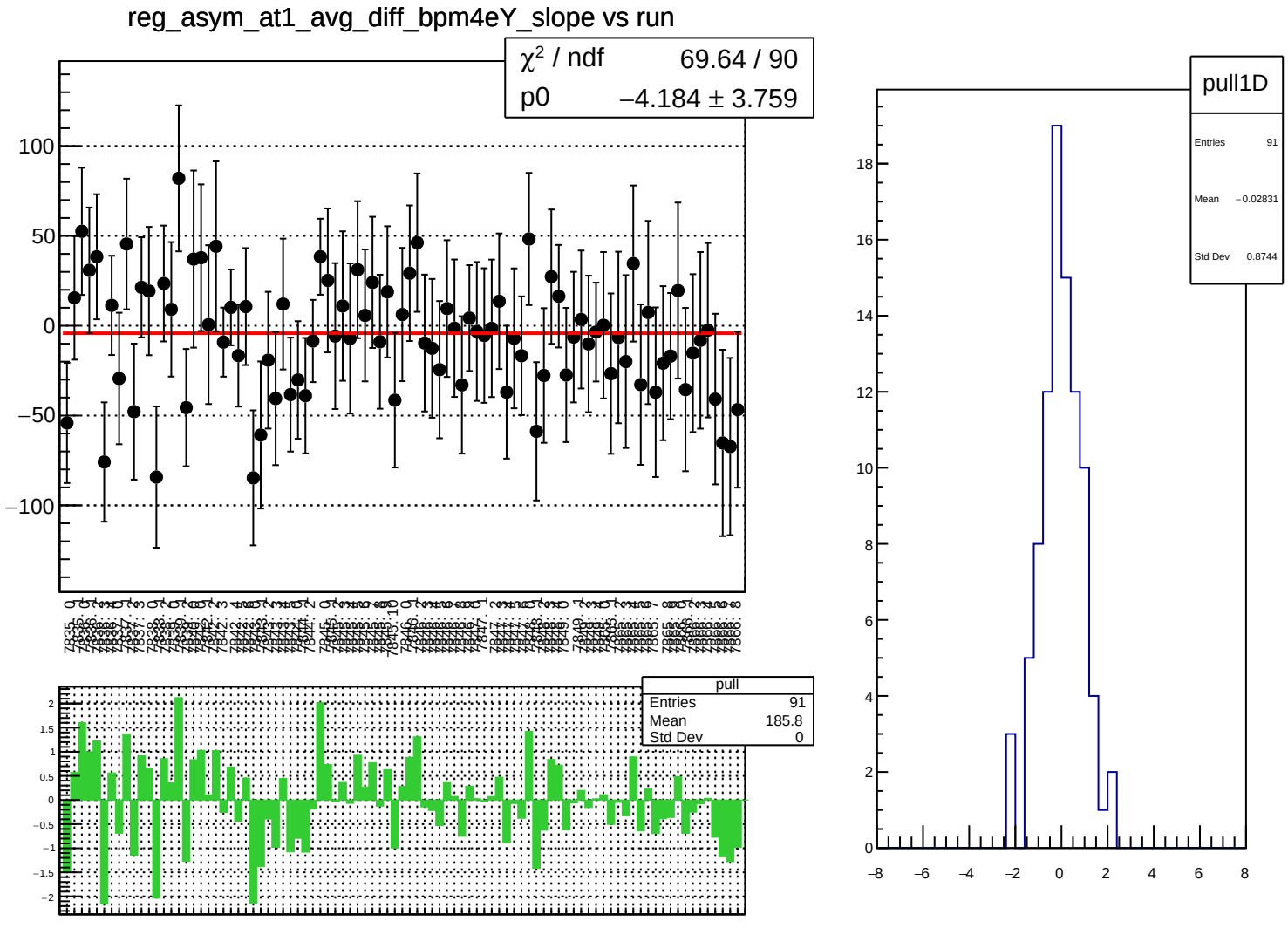

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 169.6 / 90
p0 −53.77 ± 2.719
pull
Entries 91
Mean −72.31
Std Dev 0

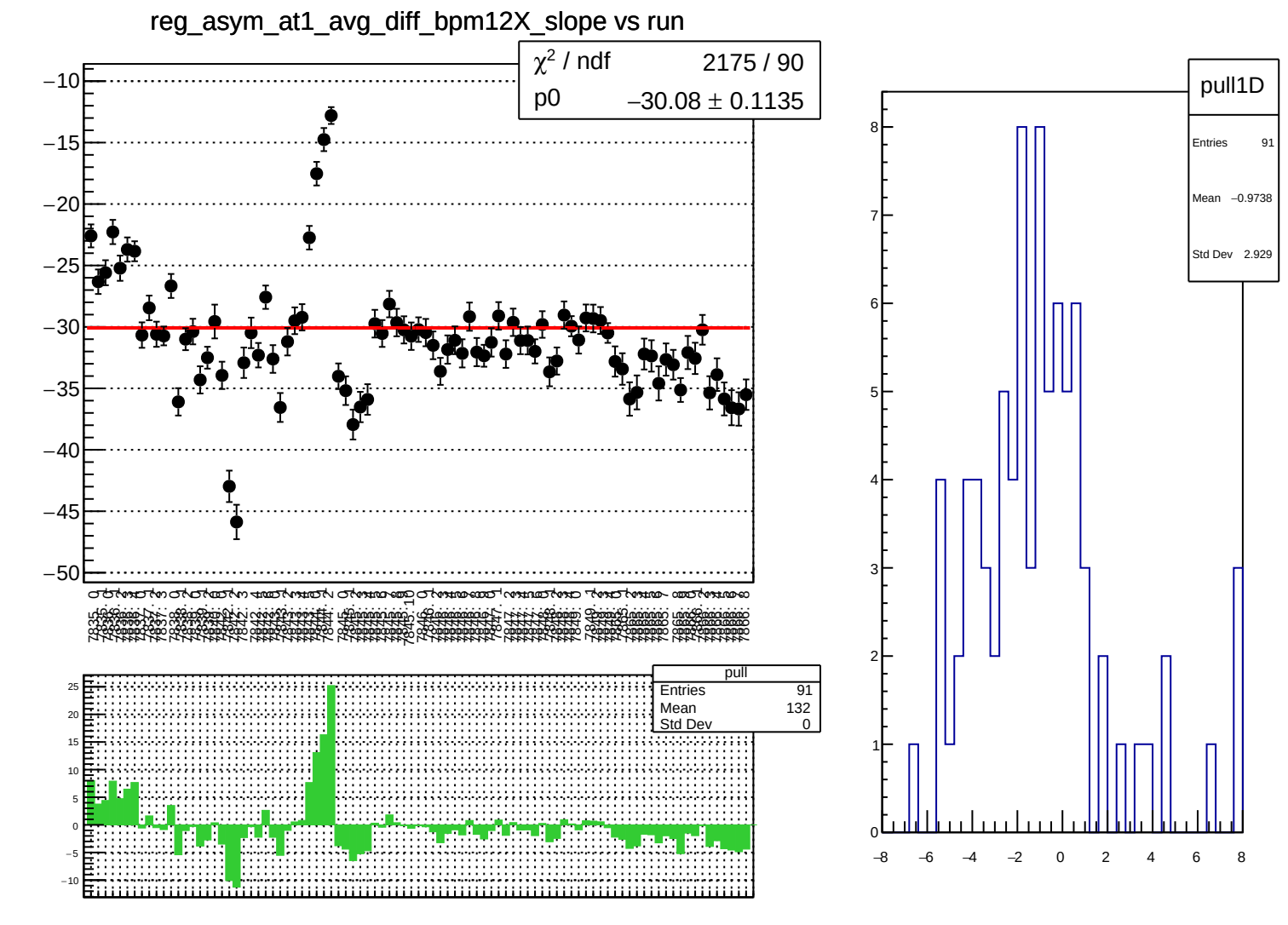

pull1D
Entries 91
Mean 0.1329
Std Dev 1.359

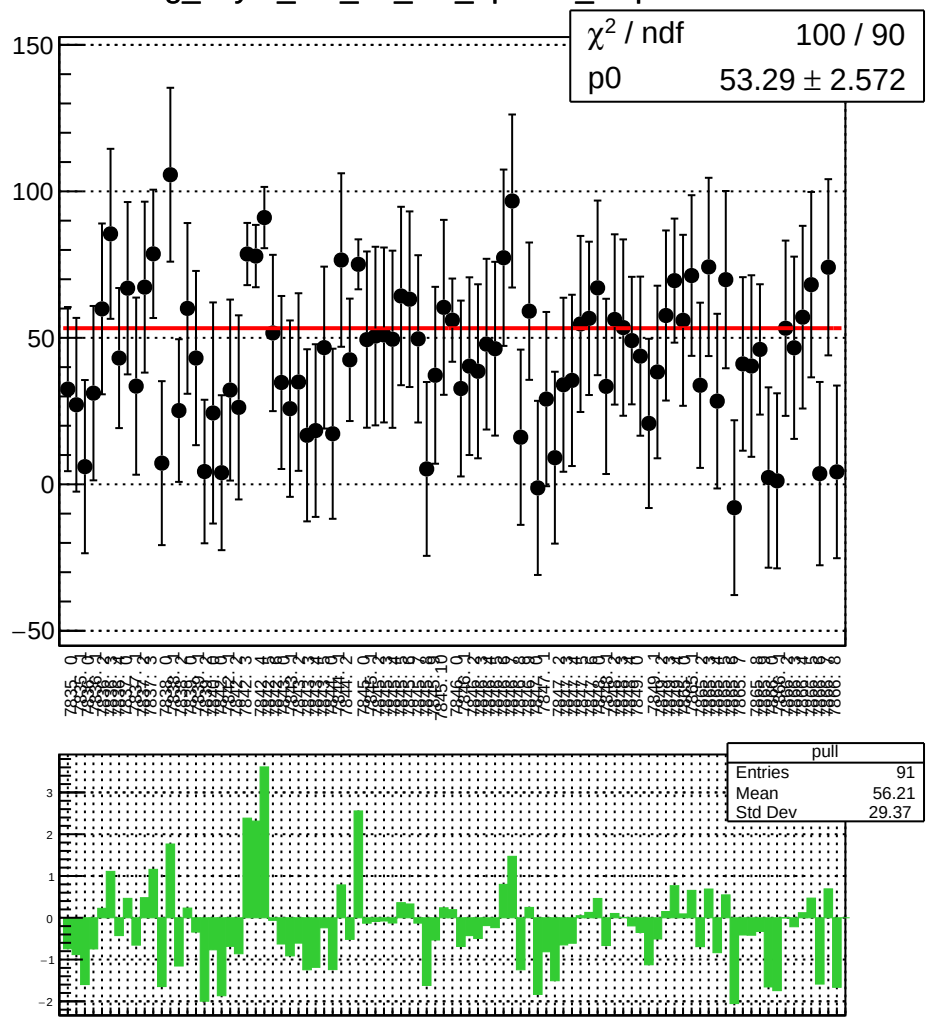

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.53 / 90
p0 8.925 ± 3.236
pull
Entries 91
Mean 161.6
Std Dev 0

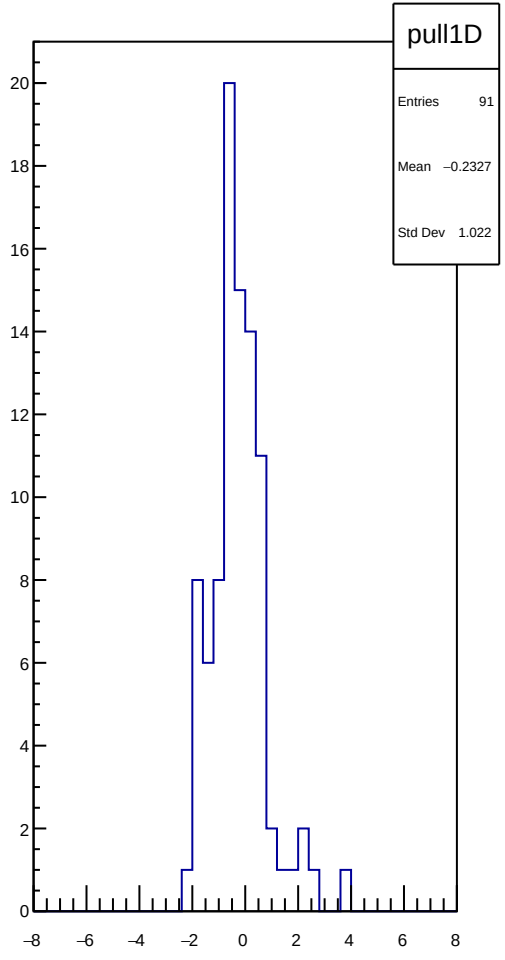

pull1D
Entries 91
Mean 0.05718
Std Dev 0.9032

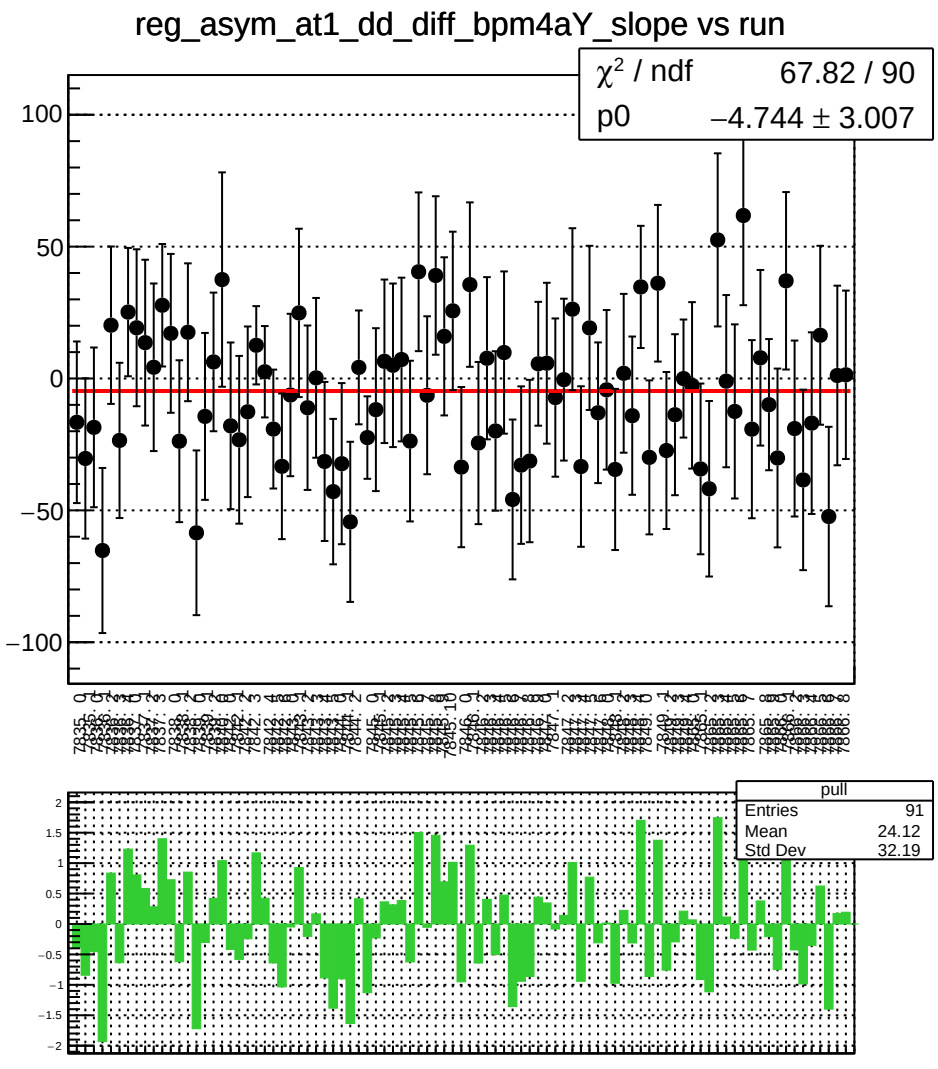

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 176 / 90
p0 42 ± 2.366
pull
Entries 91
Mean −25.16
Std Dev 0
pull1D
Entries 91
Mean −0.214
Std Dev 1.374

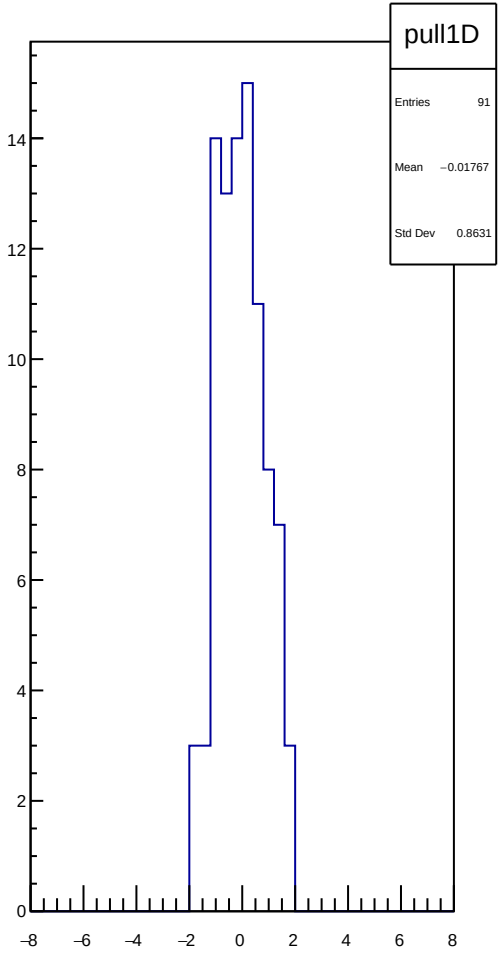

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.64 / 90
p0 −4.184 ± 3.759
100
50
0
−50
−100
pull
Entries 91
Mean 185.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.02831
Std Dev 0.8744
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

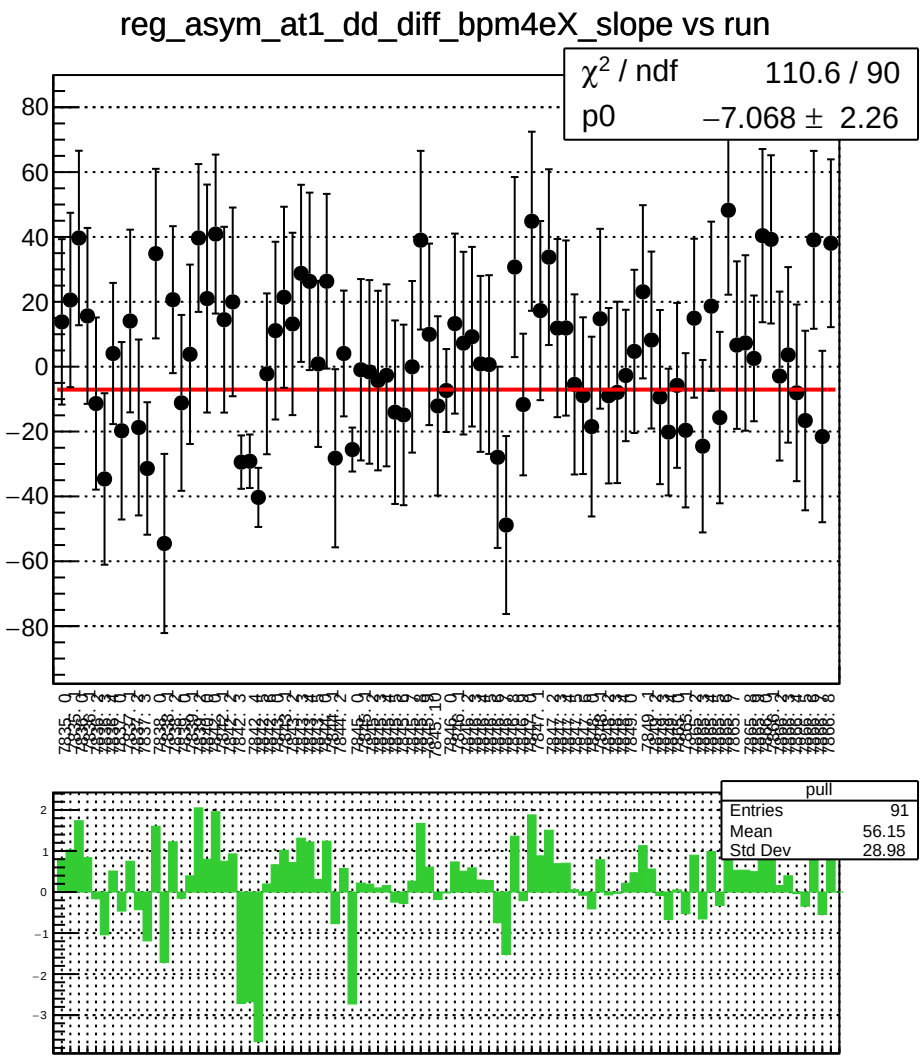

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2175 / 90
p0 −30.08 ± 0.1135
pull
Entries 91
Mean 132
Std Dev 0
pull1D
Entries 91
Mean −0.9738
Std Dev 2.929

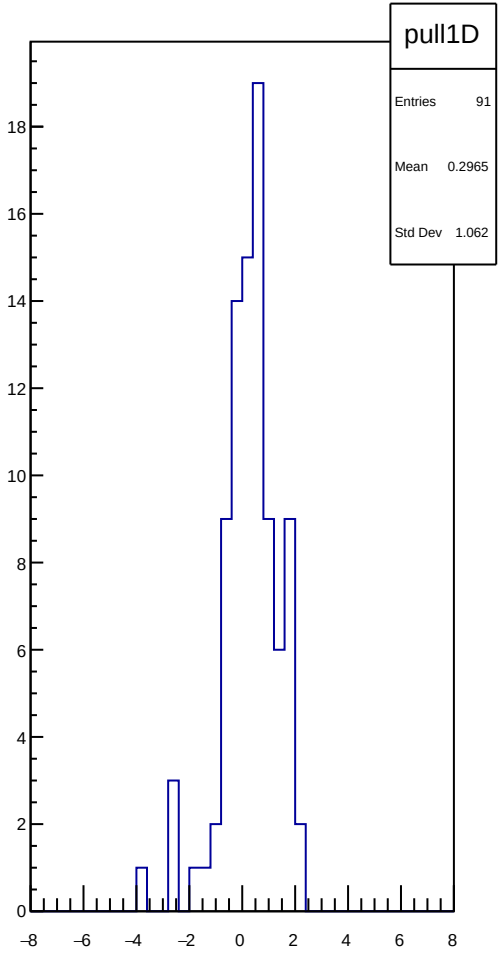

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 100 / 90
p0 53.29 ± 2.572
150
100
50
0
−50
pull
Entries 91
Mean 56.21
Std Dev 29.37
3
2
1
0
−1
−2

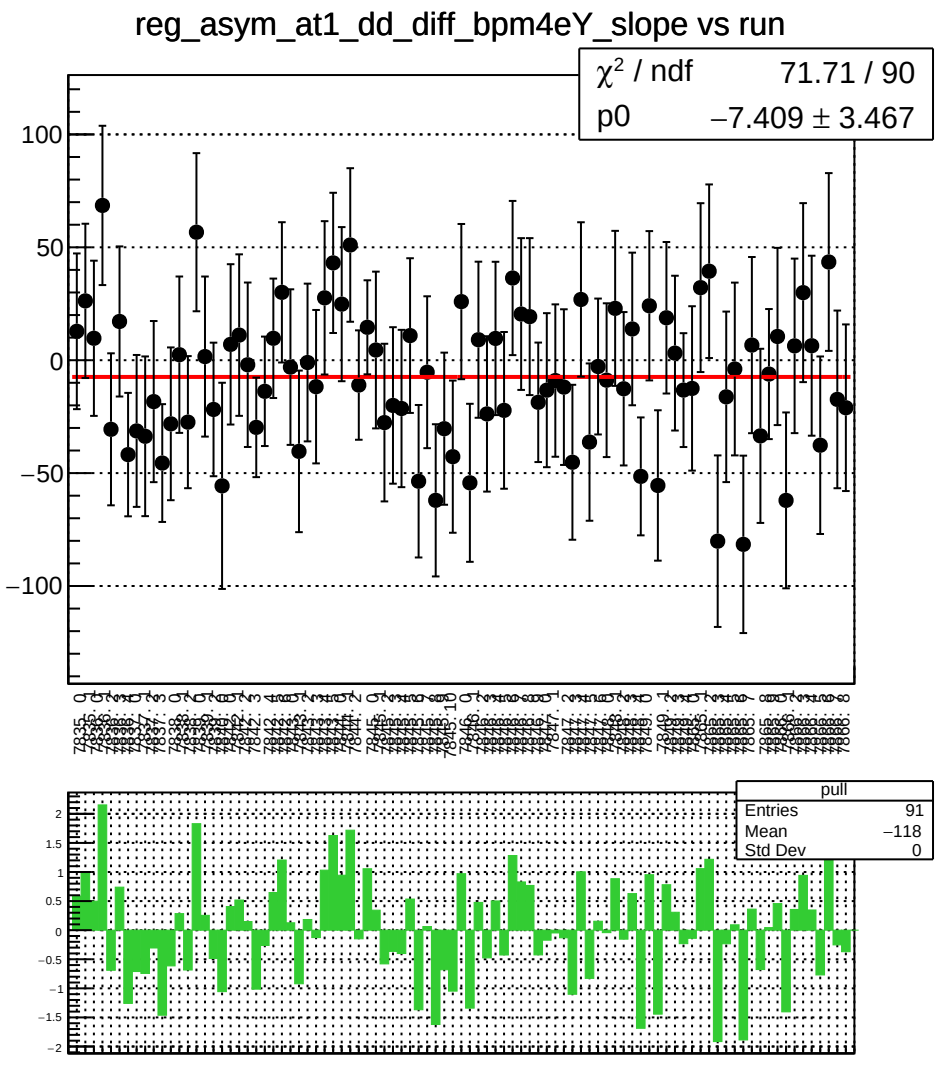

pull1D
Entries 91
Mean −0.2327
Std Dev 1.022
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

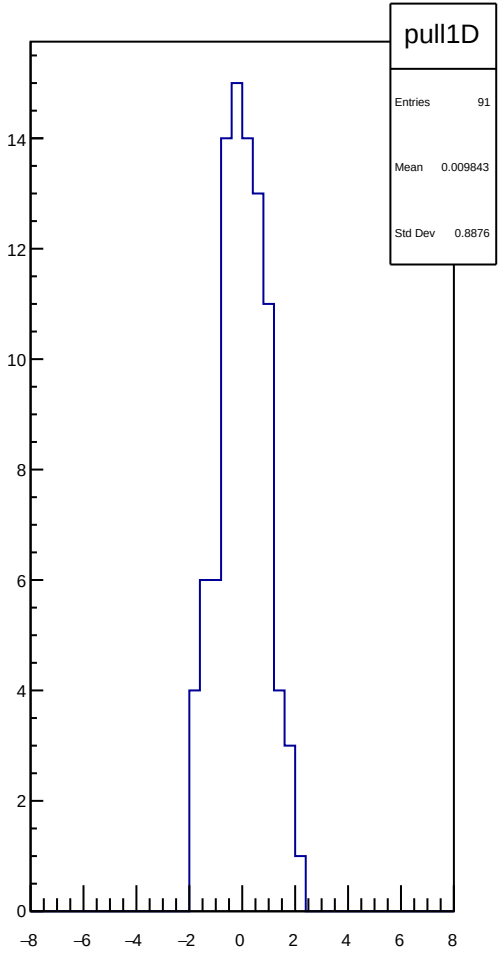

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.82 / 90
p0 −4.744 ± 3.007
pull
Entries 91
Mean 24.12
Std Dev 32.19

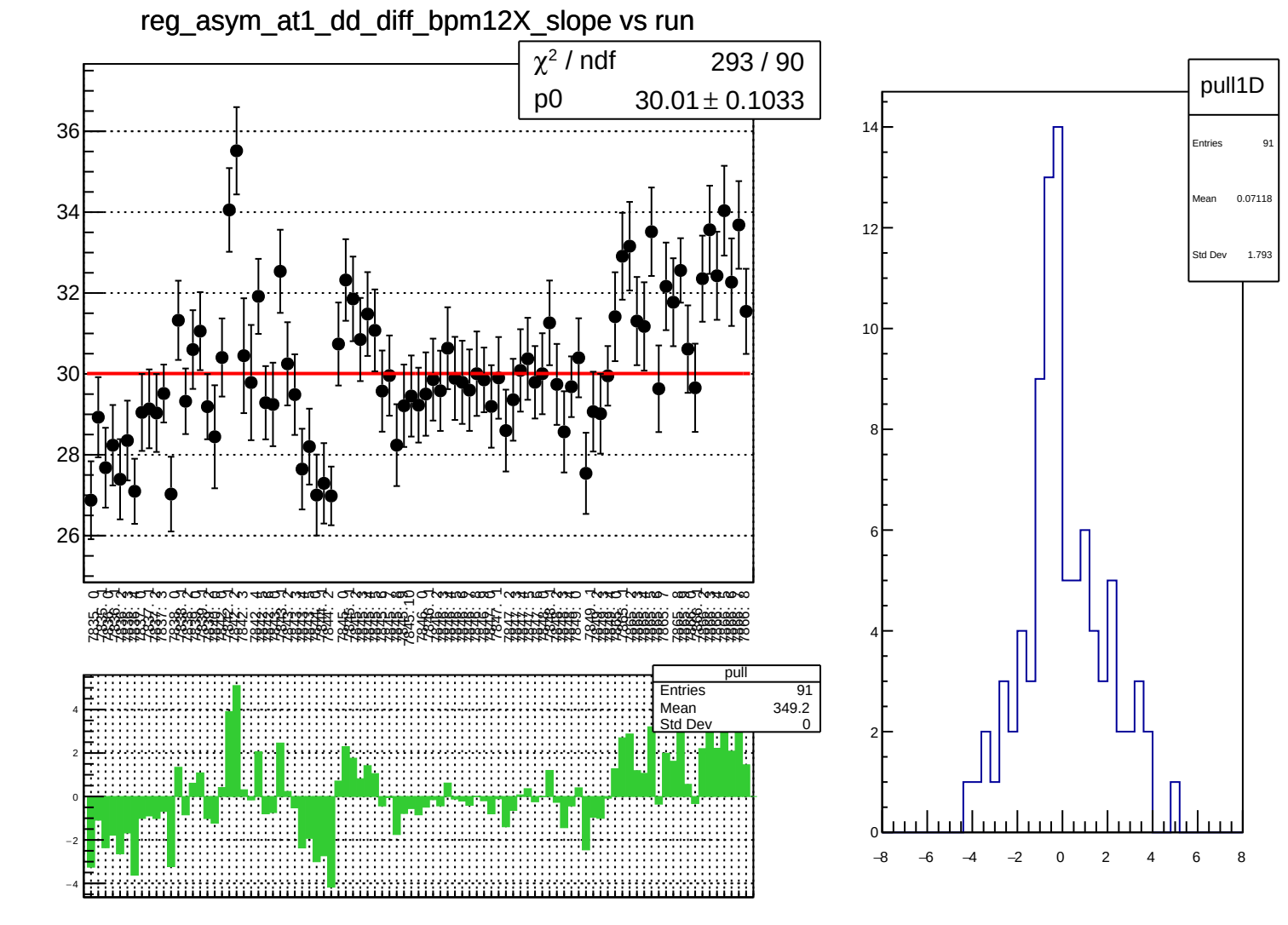

pull1D
Entries 91
Mean −0.01767
Std Dev 0.8631

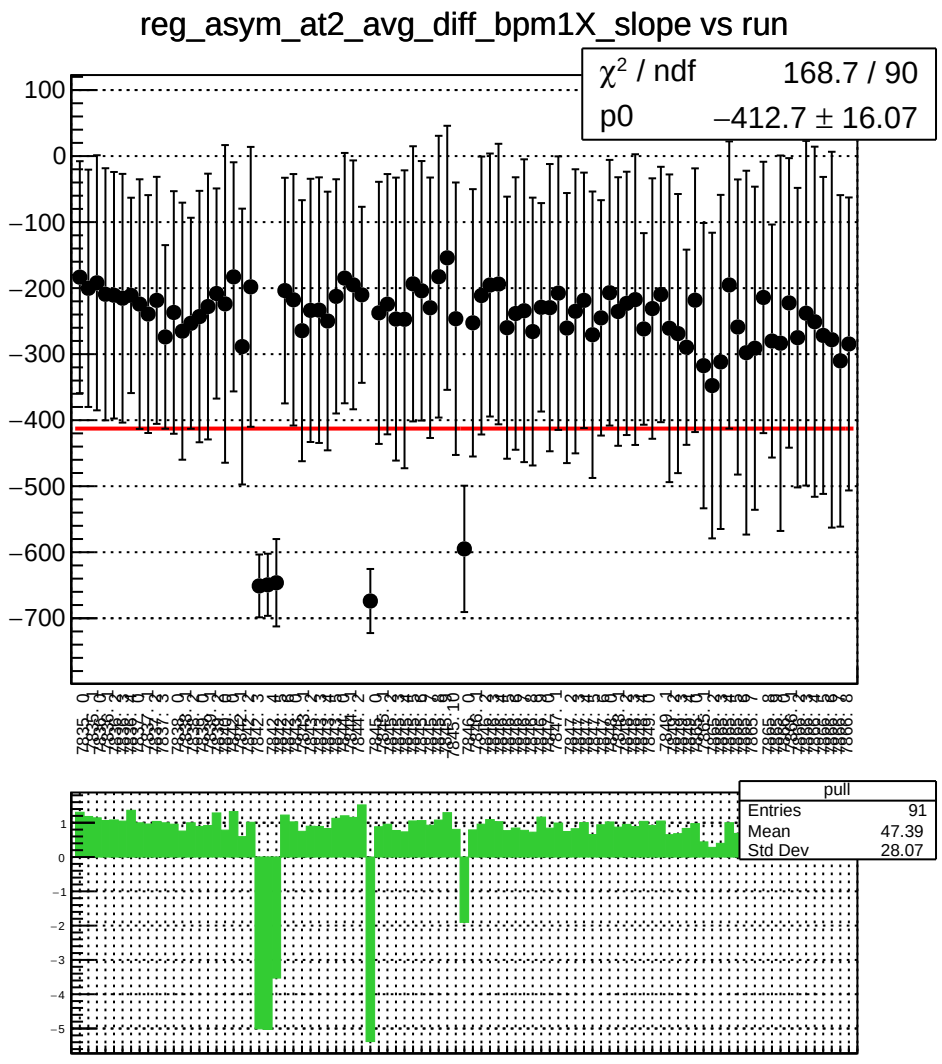

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 110.6 / 90
p0 −7.068 ± 2.26
pull
Entries 91
Mean 56.15
Std Dev 28.98

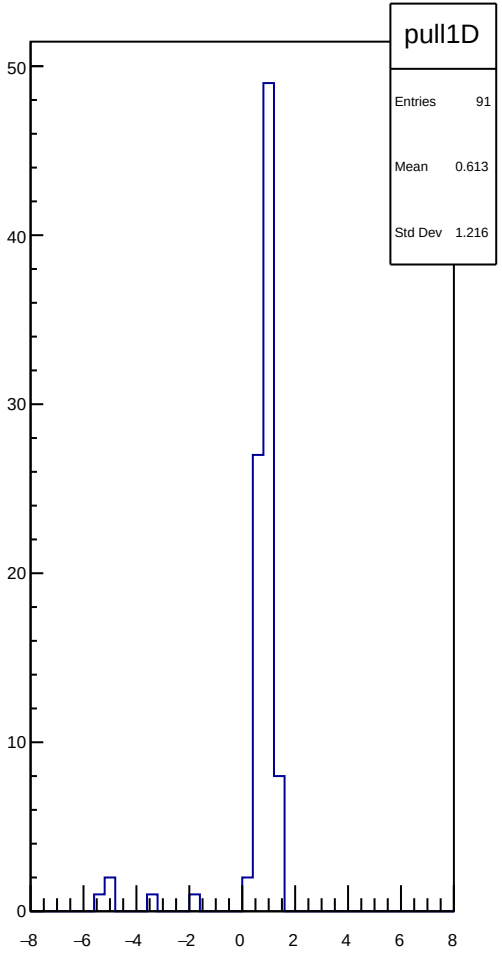

pull1D
Entries 91
Mean 0.2965
Std Dev 1.062

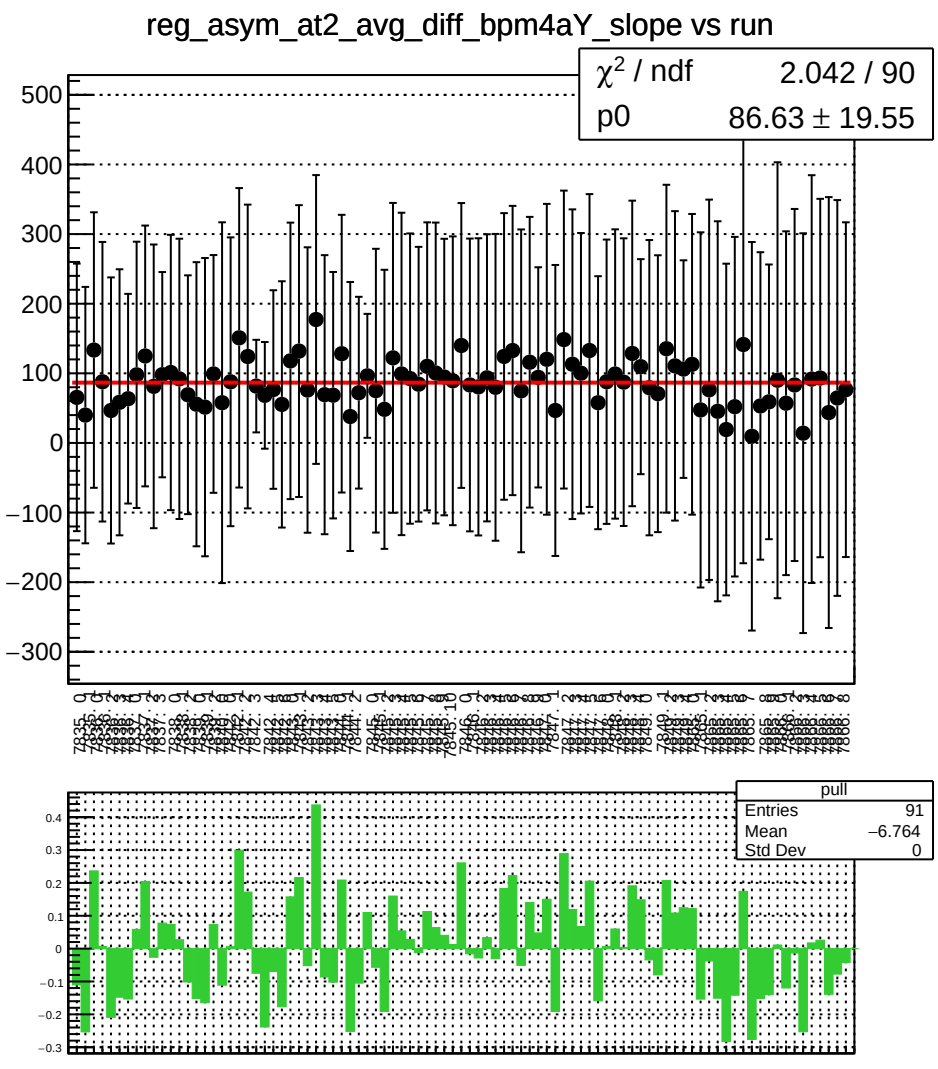

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.71 / 90
p0 −7.409 ± 3.467
pull
Entries 91
Mean −118
Std Dev 0

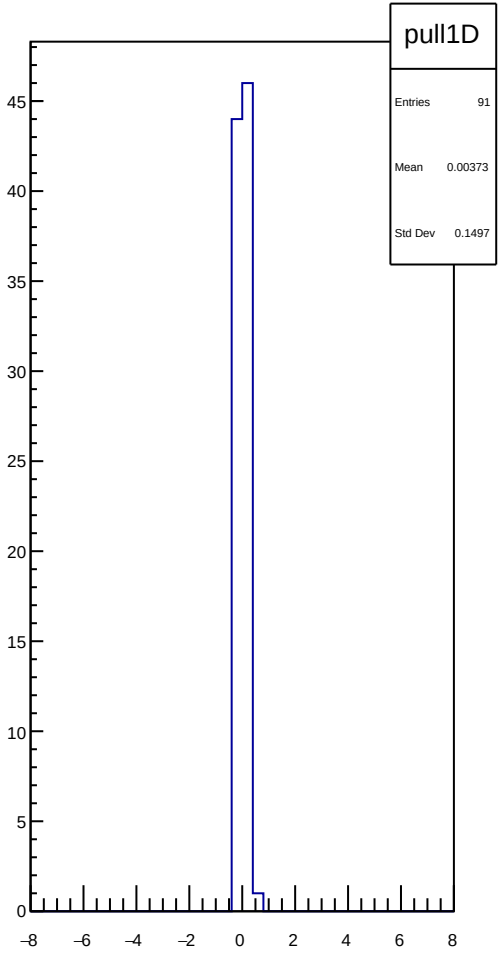

pull1D
Entries 91
Mean 0.009843
Std Dev 0.8876

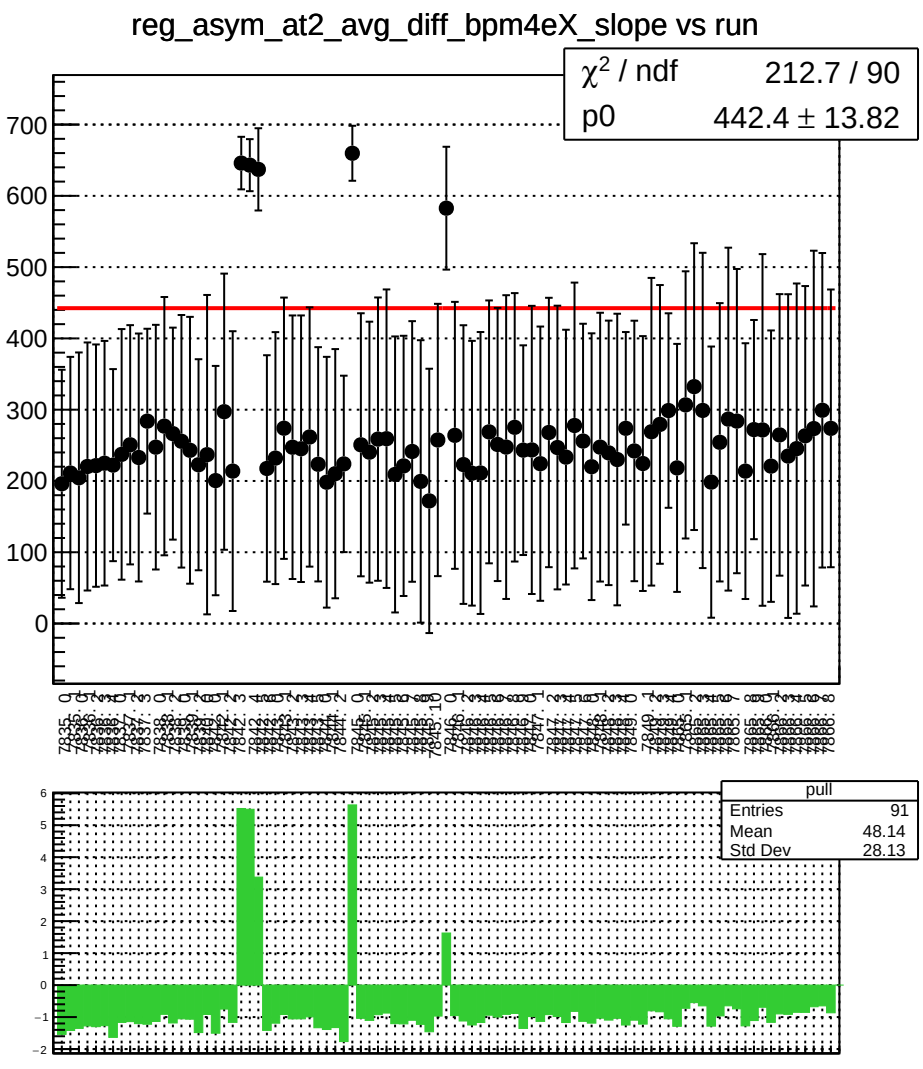

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 293 / 90
p0 30.01 ± 0.1033
pull
Entries 91
Mean 349.2
Std Dev 0
pull1D
Entries 91
Mean 0.07118
Std Dev 1.793

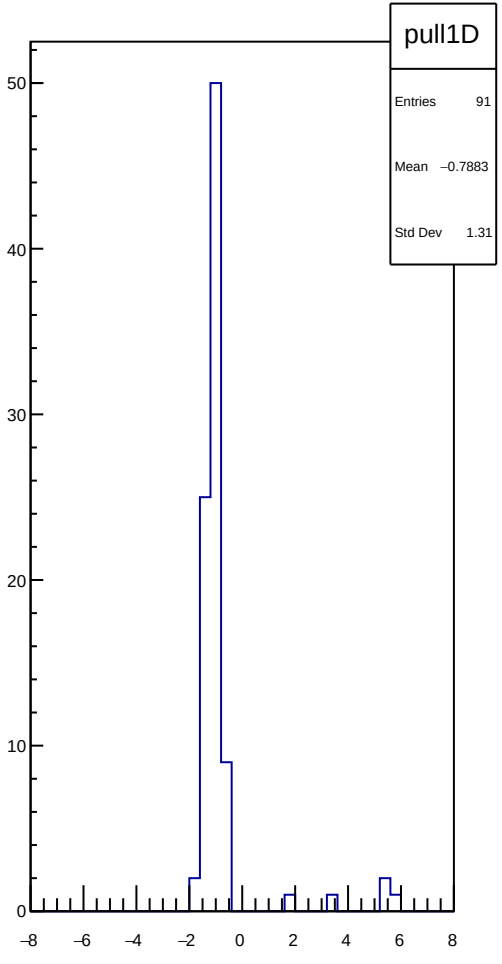

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 168.7 / 90
p0 −412.7 ± 16.07
pull
Entries 91
Mean 47.39
Std Dev 28.07

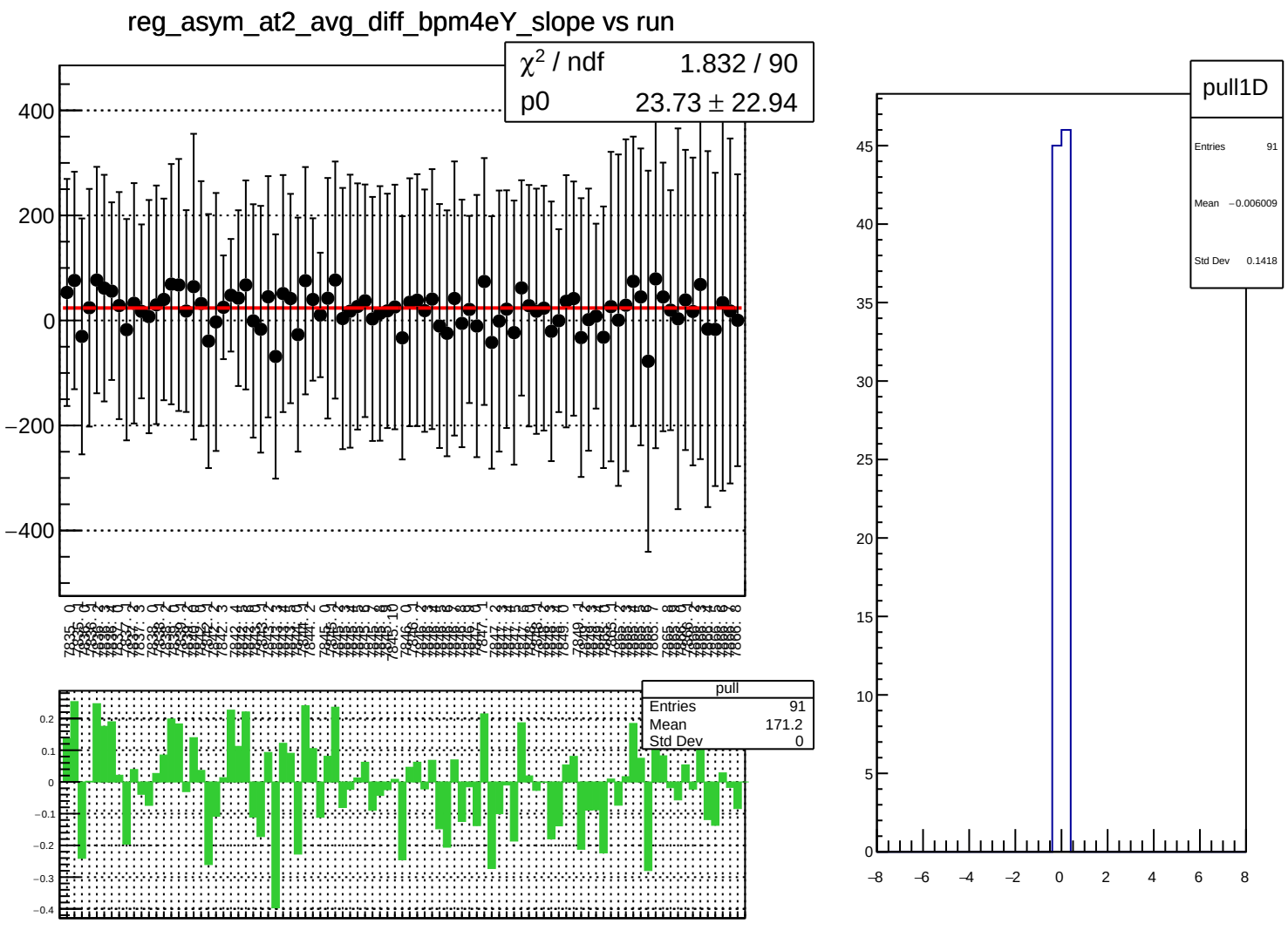

pull1D
Entries 91
Mean 0.613
Std Dev 1.216

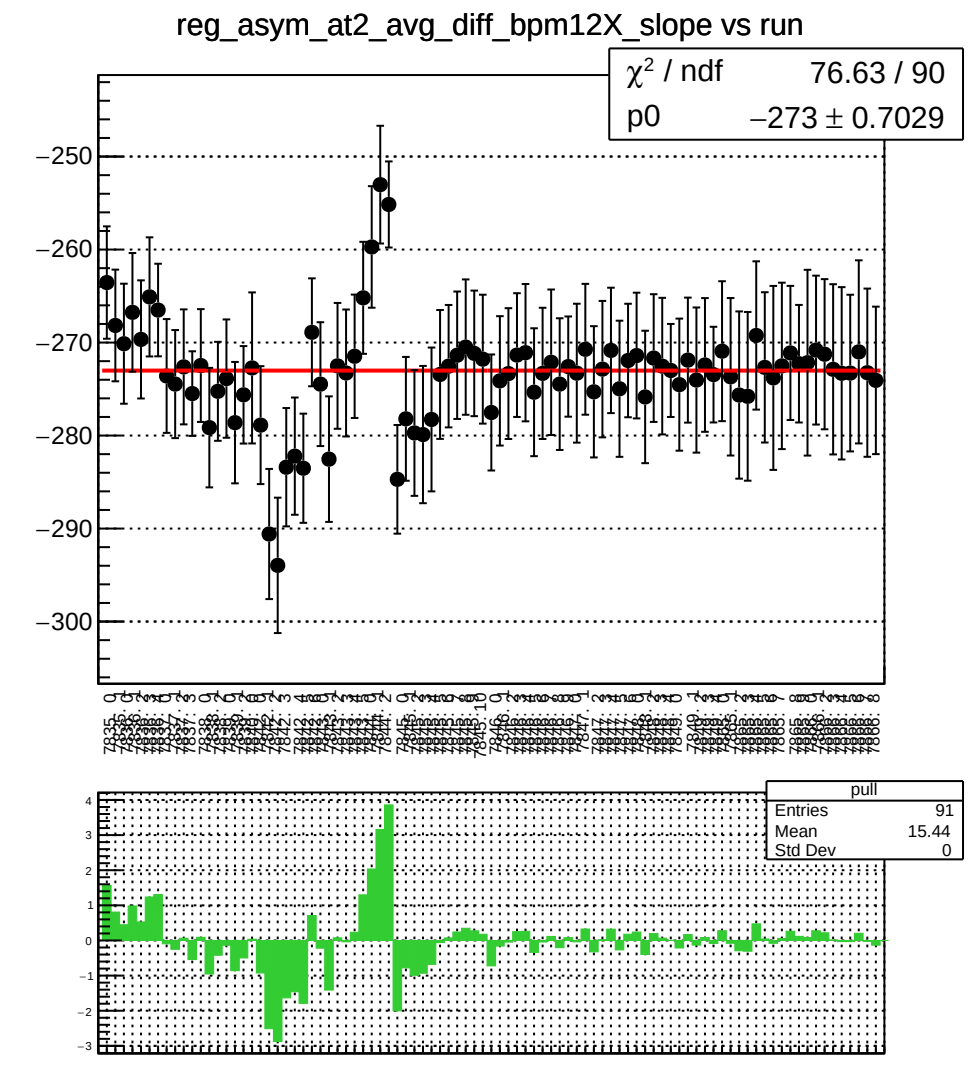

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.042 / 90
p0 86.63 ± 19.55
pull
Entries 91
Mean −6.764
Std Dev 0

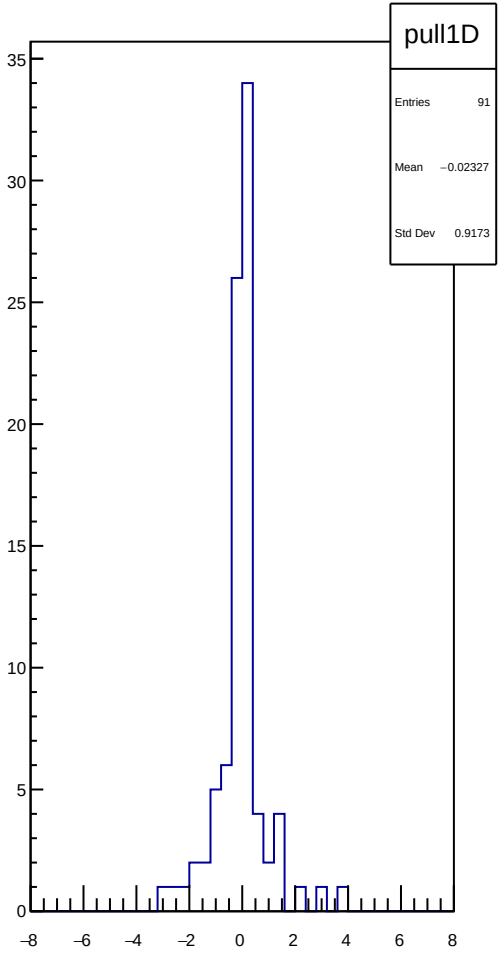

pull1D
Entries 91
Mean 0.00373
Std Dev 0.1497

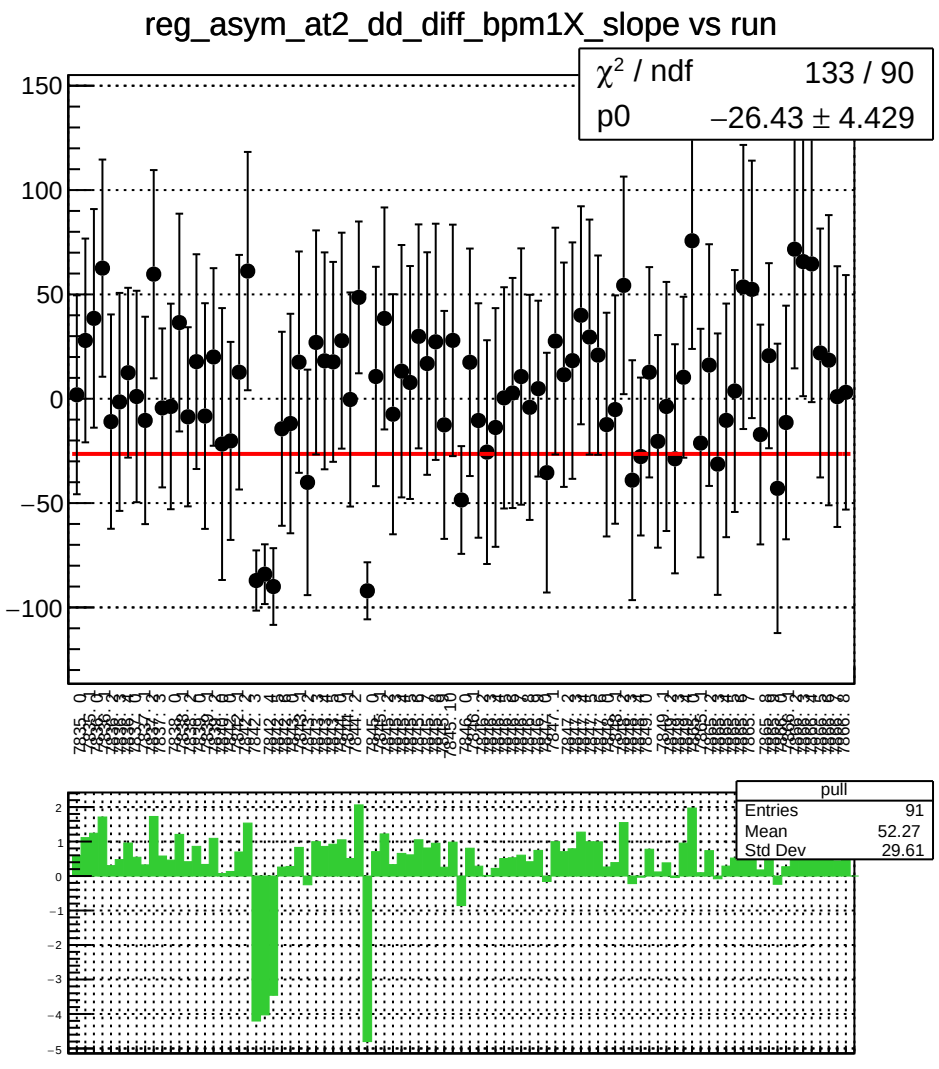

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 212.7 / 90
p0 442.4 ± 13.82
pull
Entries 91
Mean 48.14
Std Dev 28.13

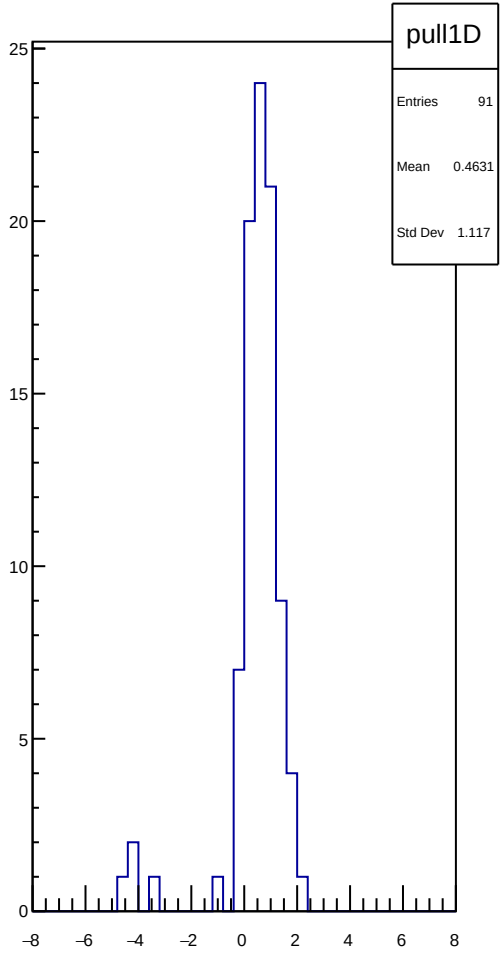

pull1D
Entries 91
Mean −0.7883
Std Dev 1.31

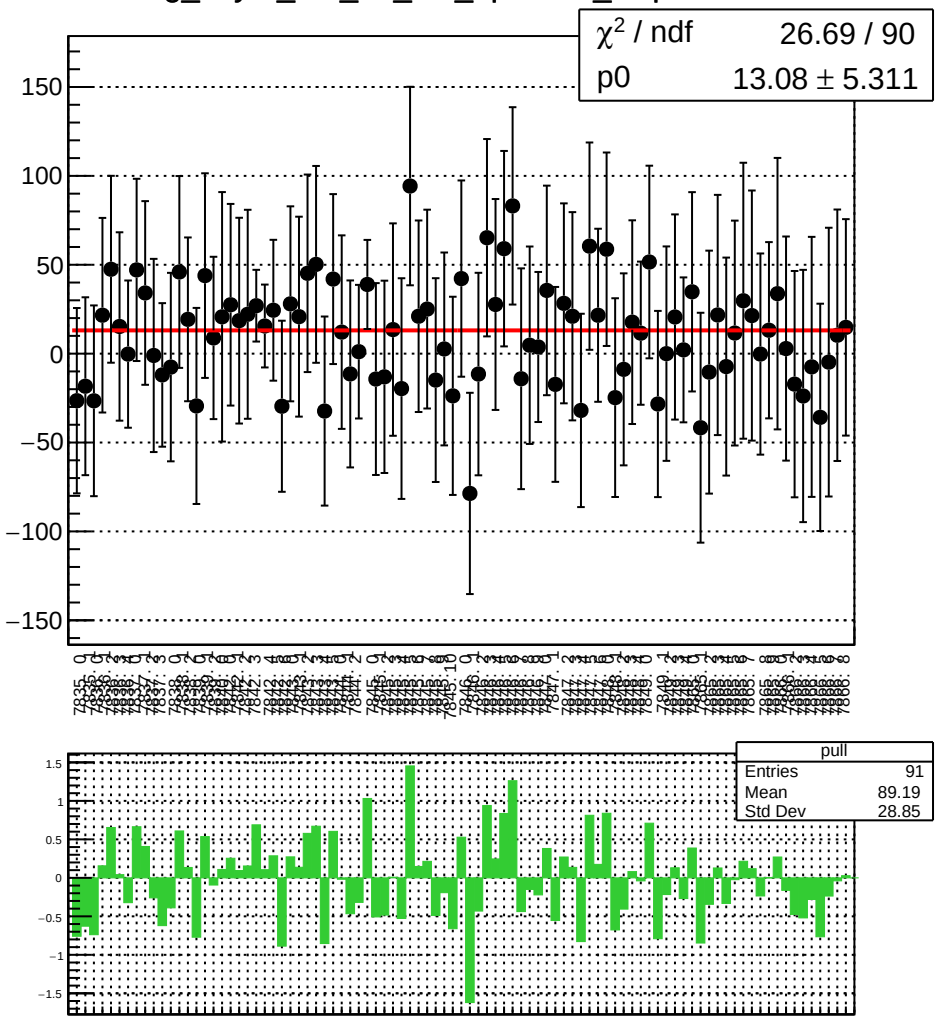

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.832 / 90
p0 23.73 ± 22.94
400
200
0
−200
−400
pull
Entries 91
Mean 171.2
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 91
Mean −0.006009
Std Dev 0.1418
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

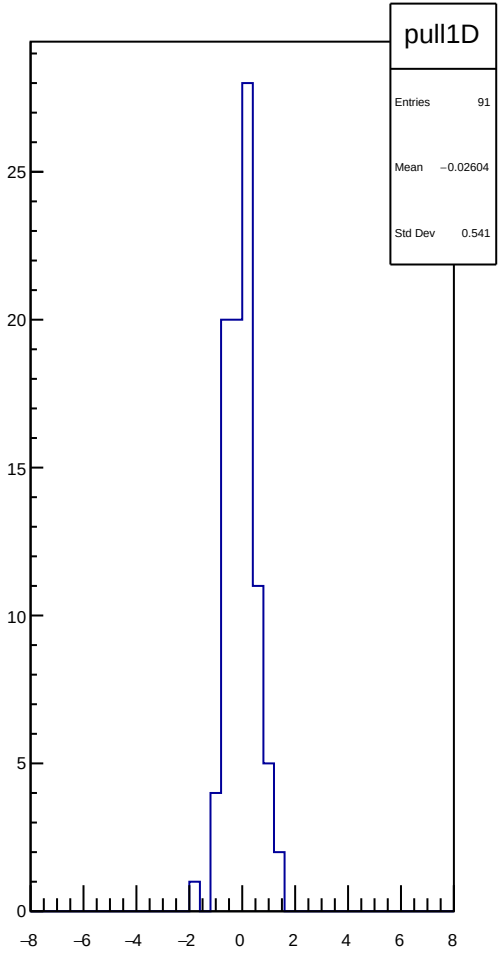

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 76.63 / 90
p0 −273 ± 0.7029
−250
−260
−270
−280
−290
−300
pull
Entries 91
Mean 15.44
Std Dev 0
4
3
2
1
0
−1
−2
−3

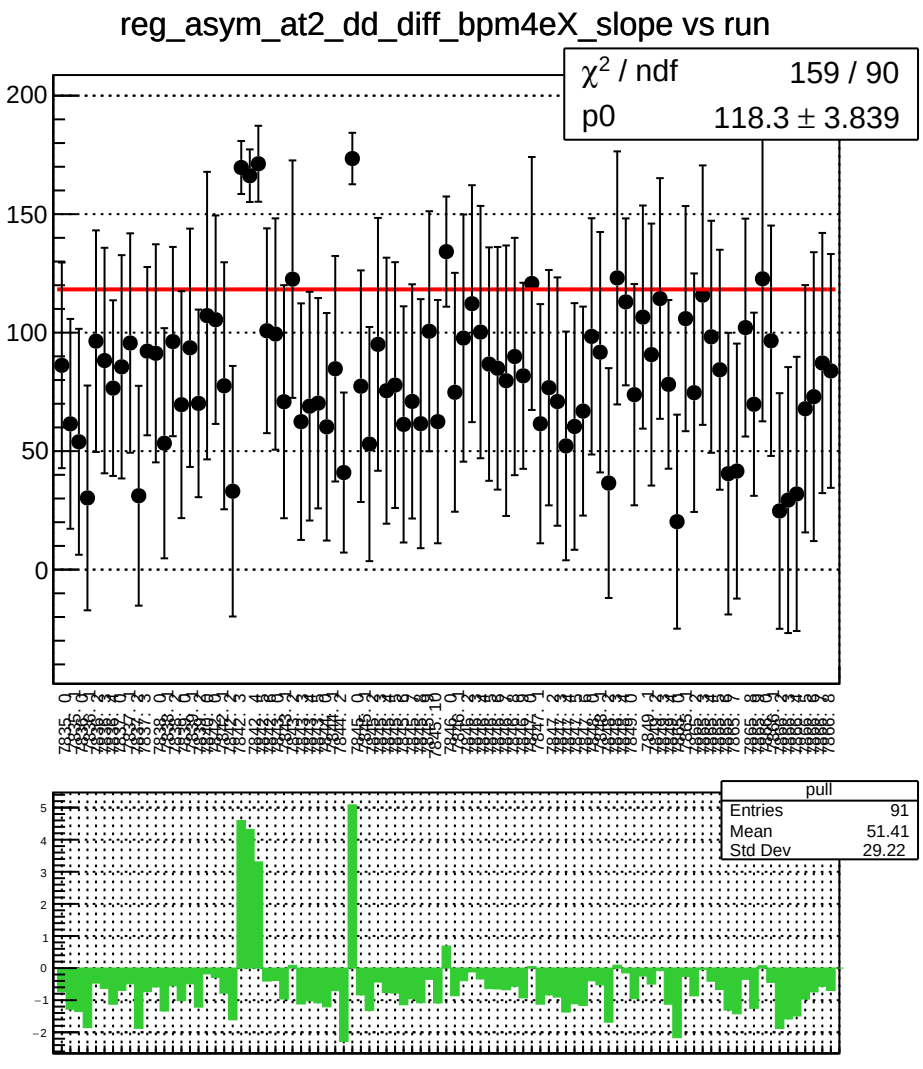

pull1D
Entries 91
Mean −0.02327
Std Dev 0.9173
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

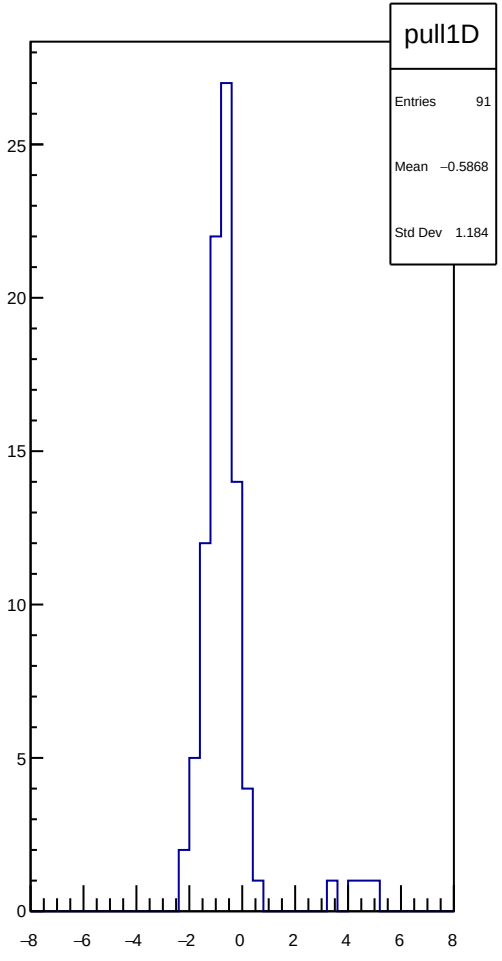

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 133 / 90
p0 −26.43 ± 4.429
150
100
50
0
−50
−100
pull
Entries 91
Mean 52.27
Std Dev 29.61
2
1
0
−1
−2
−3
−4
−5

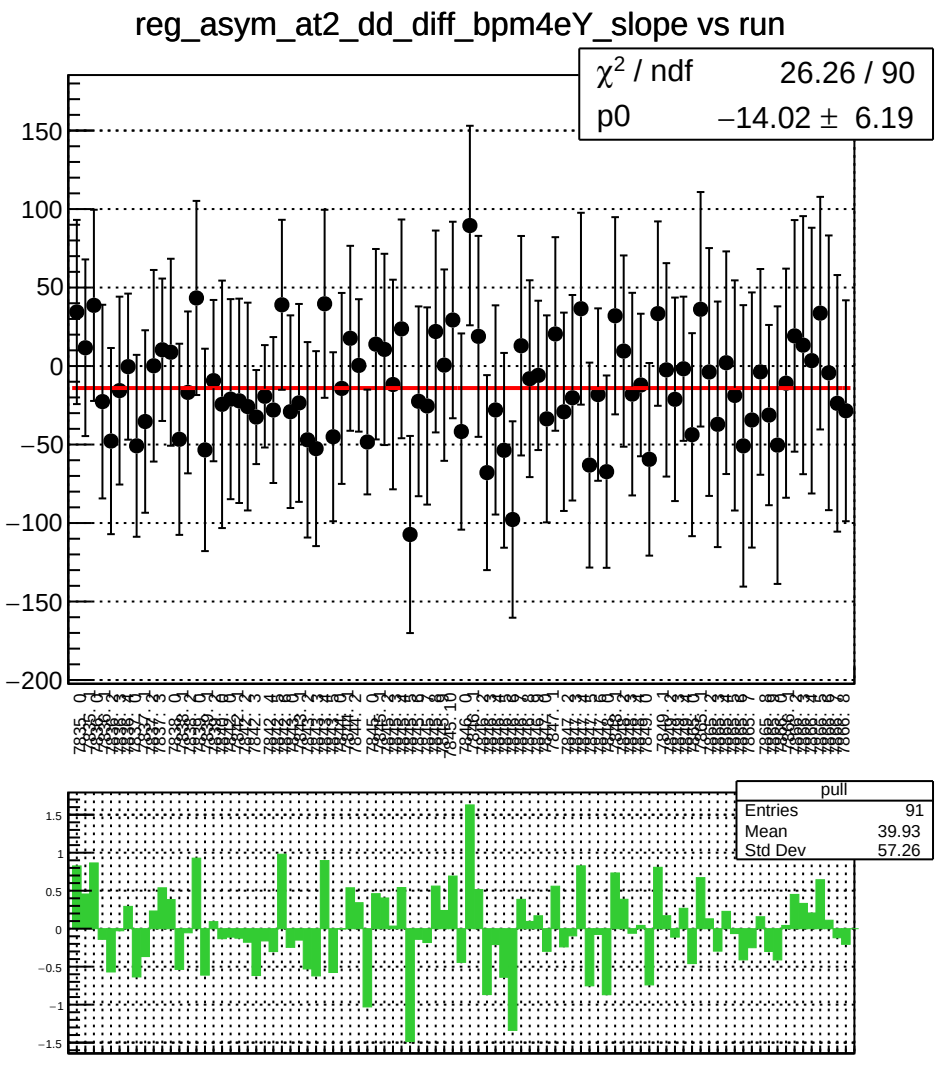

pull1D
Entries 91
Mean 0.4631
Std Dev 1.117
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

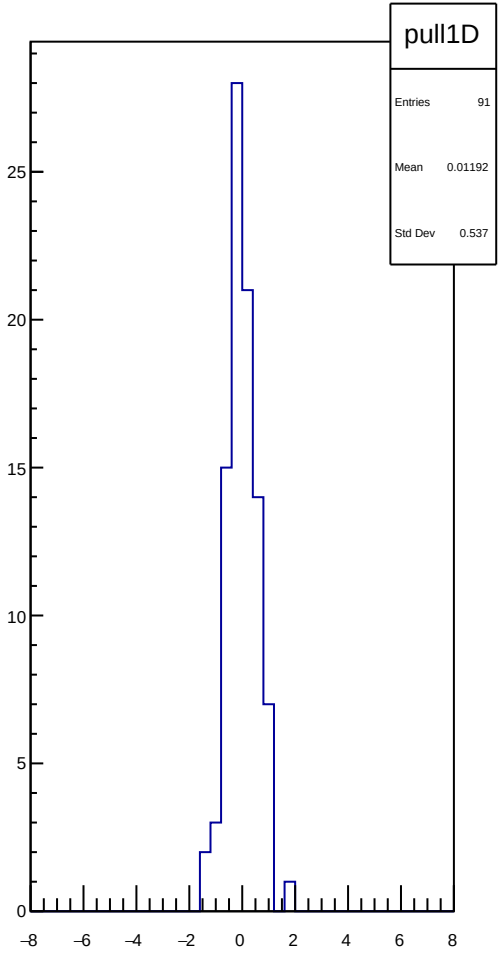

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.69 / 90
p0 13.08 ± 5.311
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 89.19
Std Dev 28.85
1.5
1
0.5
0
−0.5
−1
−1.5

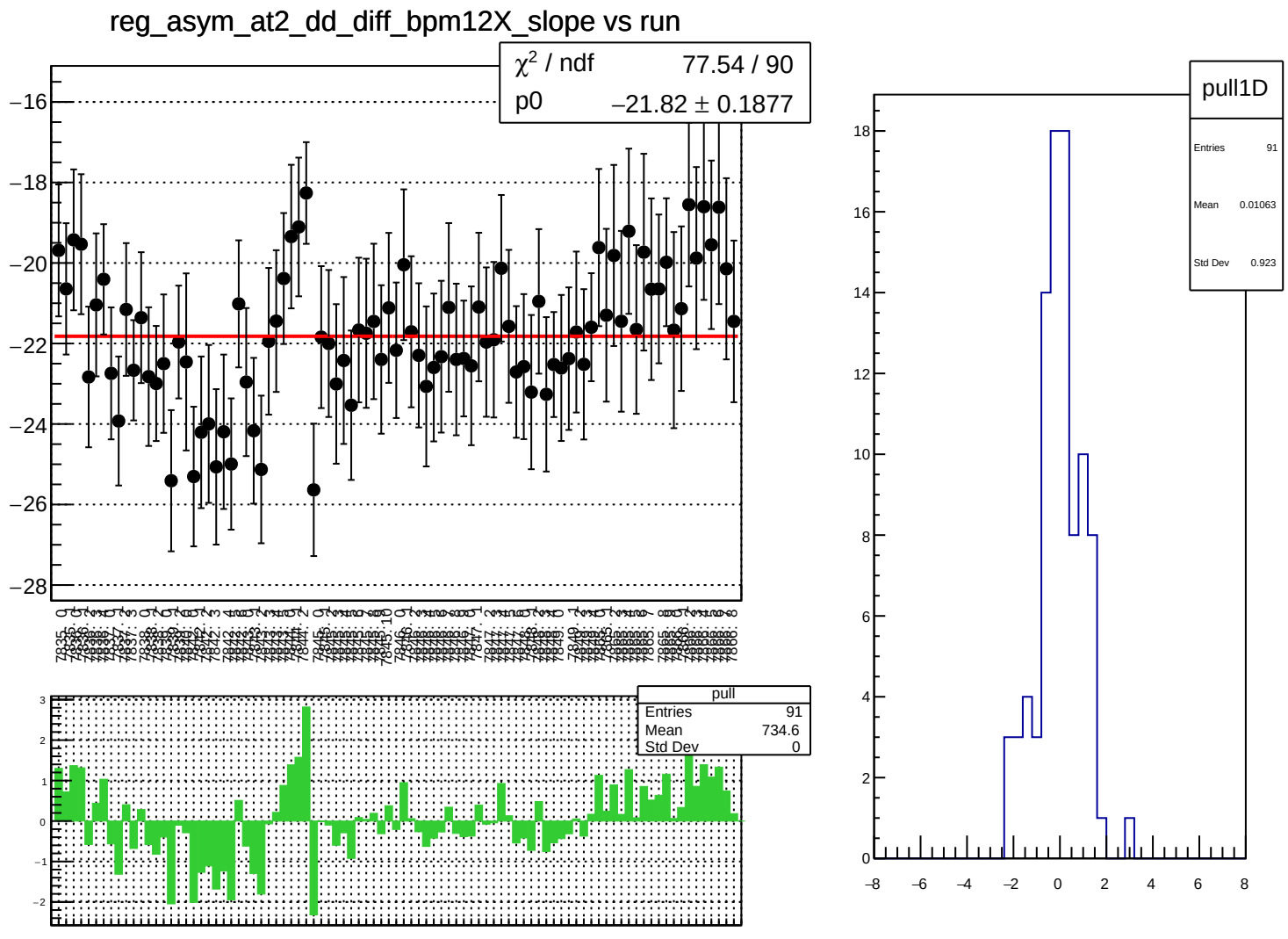

pull1D
Entries 91
Mean −0.02604
Std Dev 0.541
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

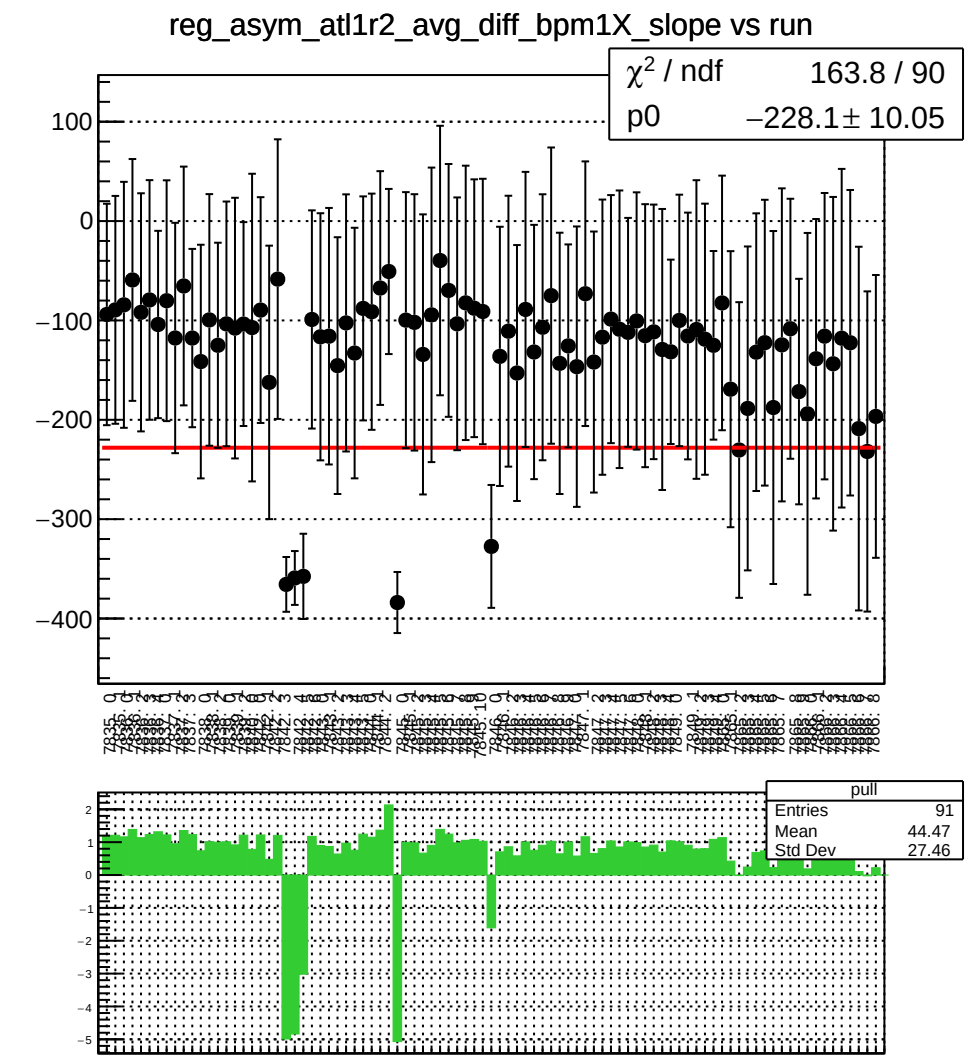

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 159 / 90
p0 118.3 ± 3.839
200
150
100
50
0
pull
Entries 91
Mean 51.41
Std Dev 29.22
5
4
3
2
1
0
−1
−2

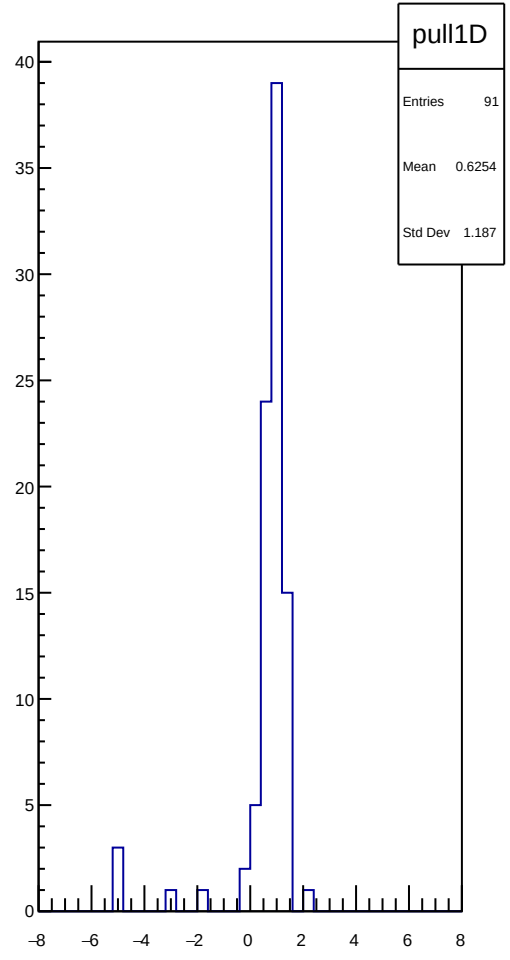

pull1D
Entries 91
Mean −0.5868
Std Dev 1.184
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

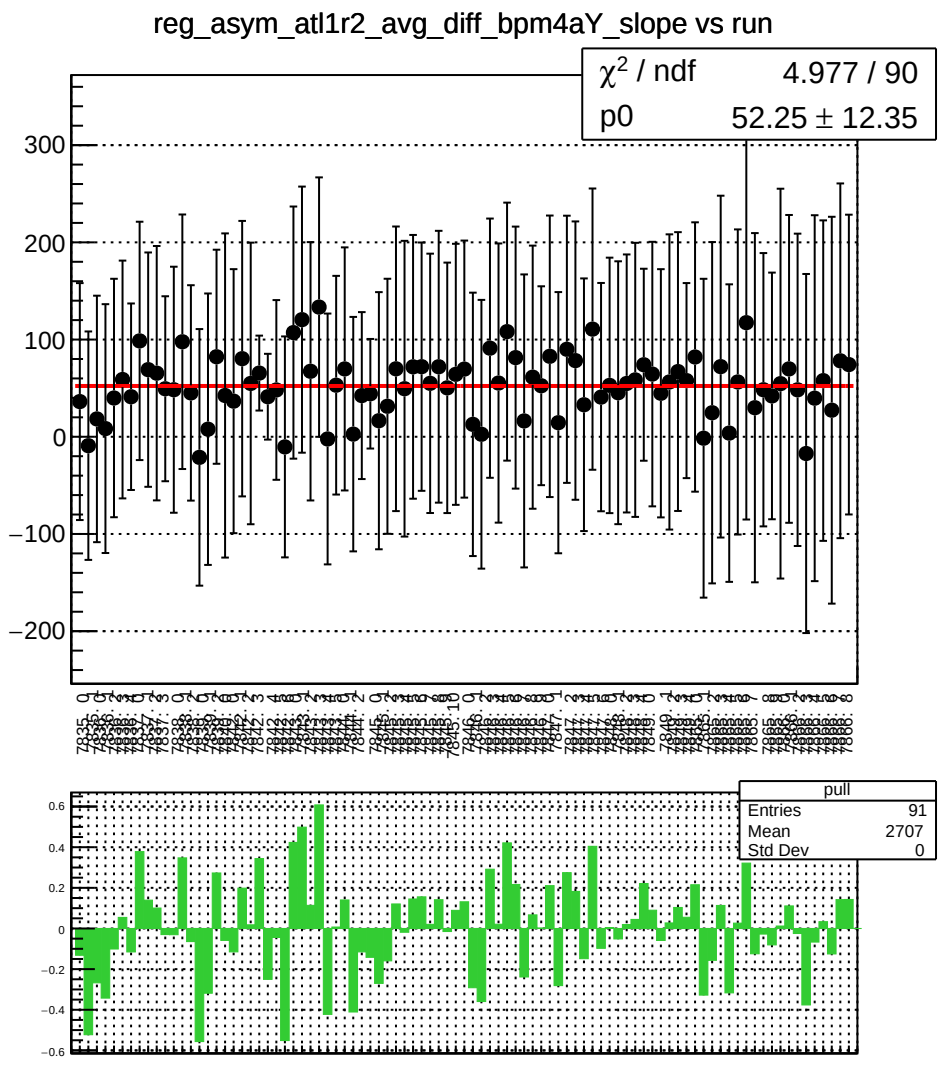

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.26 / 90
p0 −14.02 ± 6.19
pull
Entries 91
Mean 39.93
Std Dev 57.26

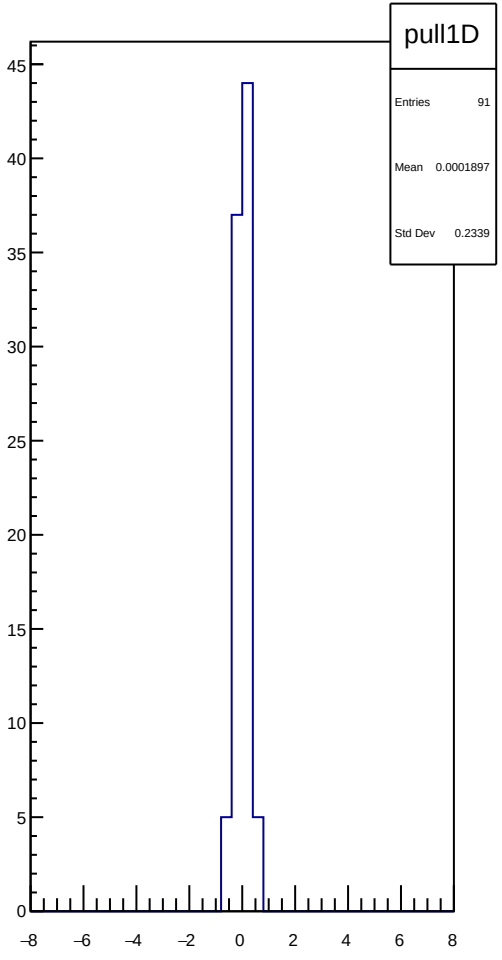

pull1D
Entries 91
Mean 0.01192
Std Dev 0.537

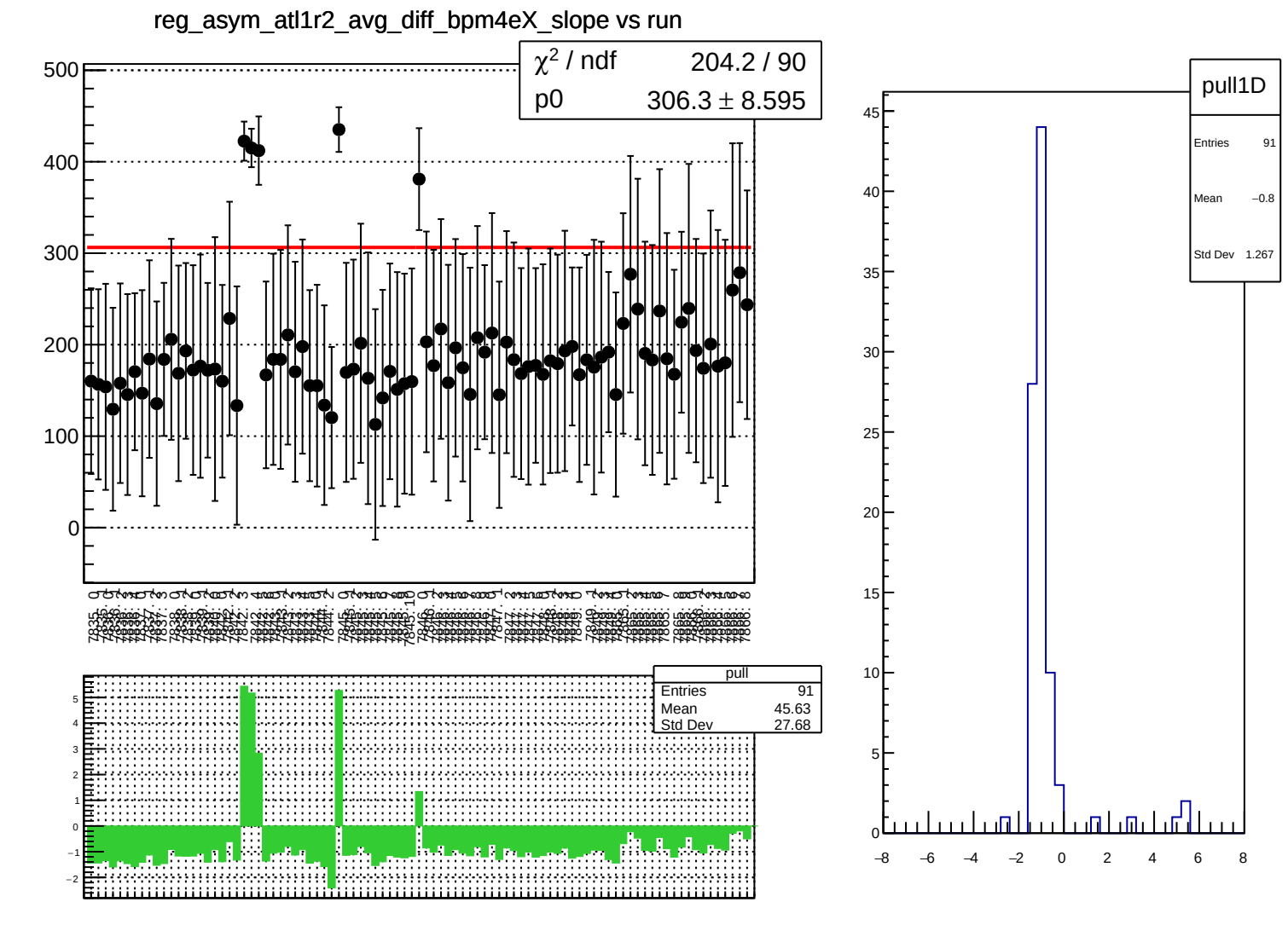

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 77.54 / 90
p0 −21.82 ± 0.1877
pull
Entries 91
Mean 734.6
Std Dev 0
pull1D
Entries 91
Mean 0.01063
Std Dev 0.923

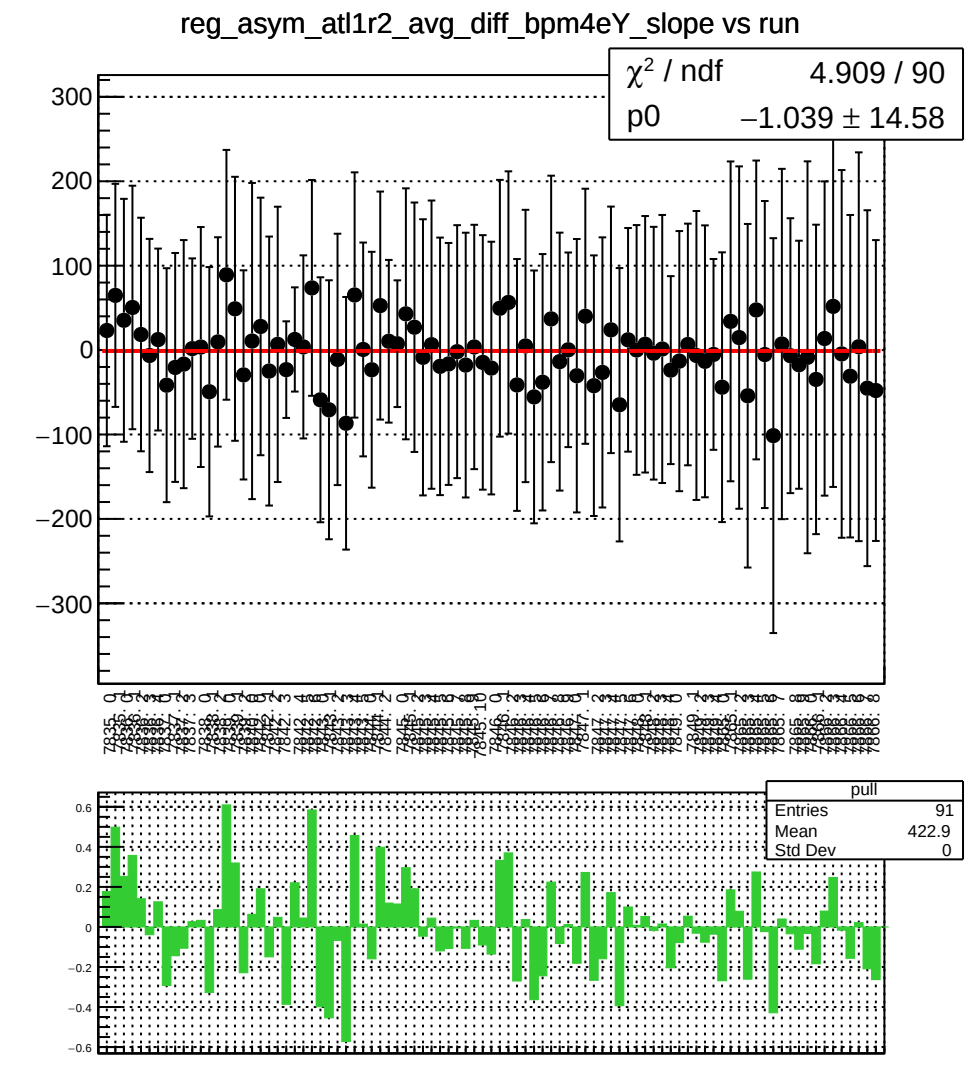

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 163.8 / 90
p0 −228.1± 10.05
pull
Entries 91
Mean 44.47
Std Dev 27.46

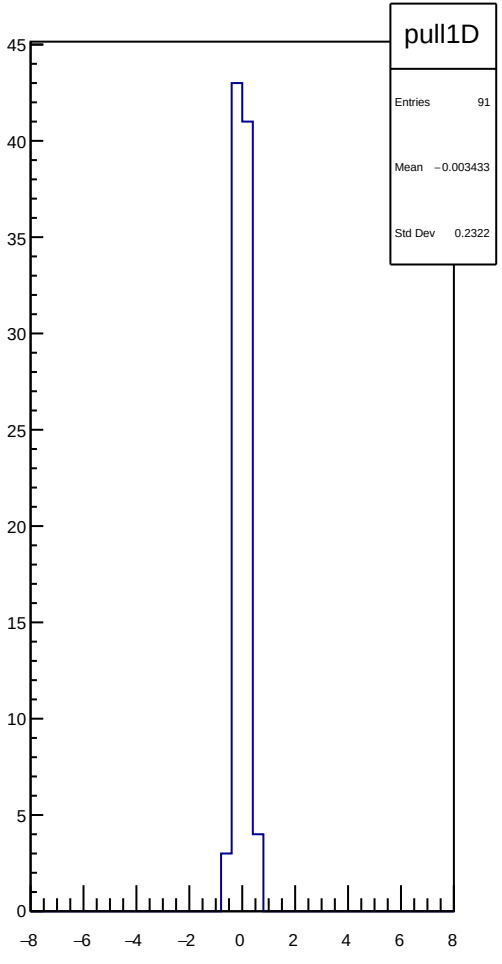

pull1D
Entries 91
Mean 0.6254
Std Dev 1.187

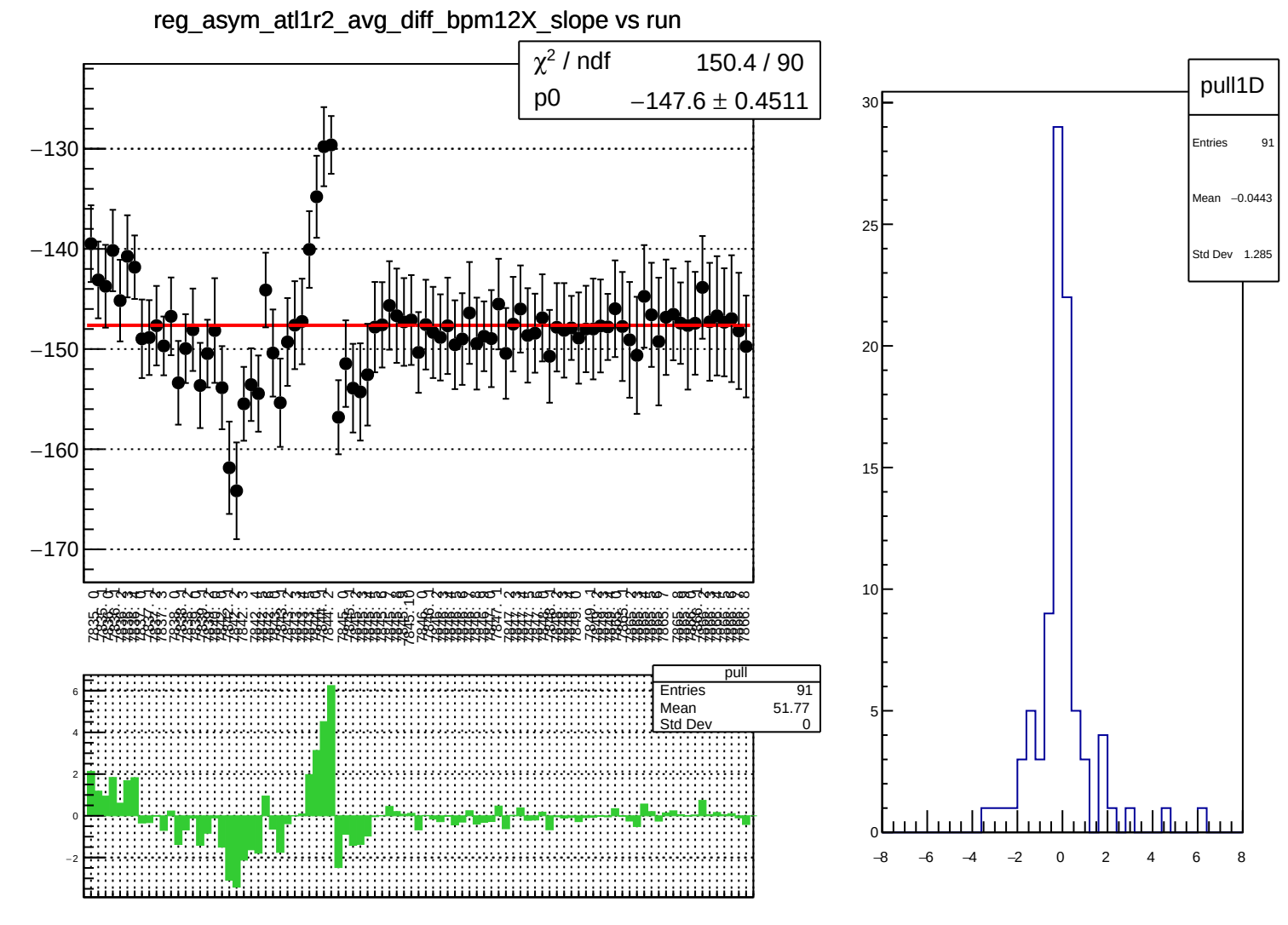

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.977 / 90
p0 52.25 ± 12.35
pull
Entries 91
Mean 2707
Std Dev 0

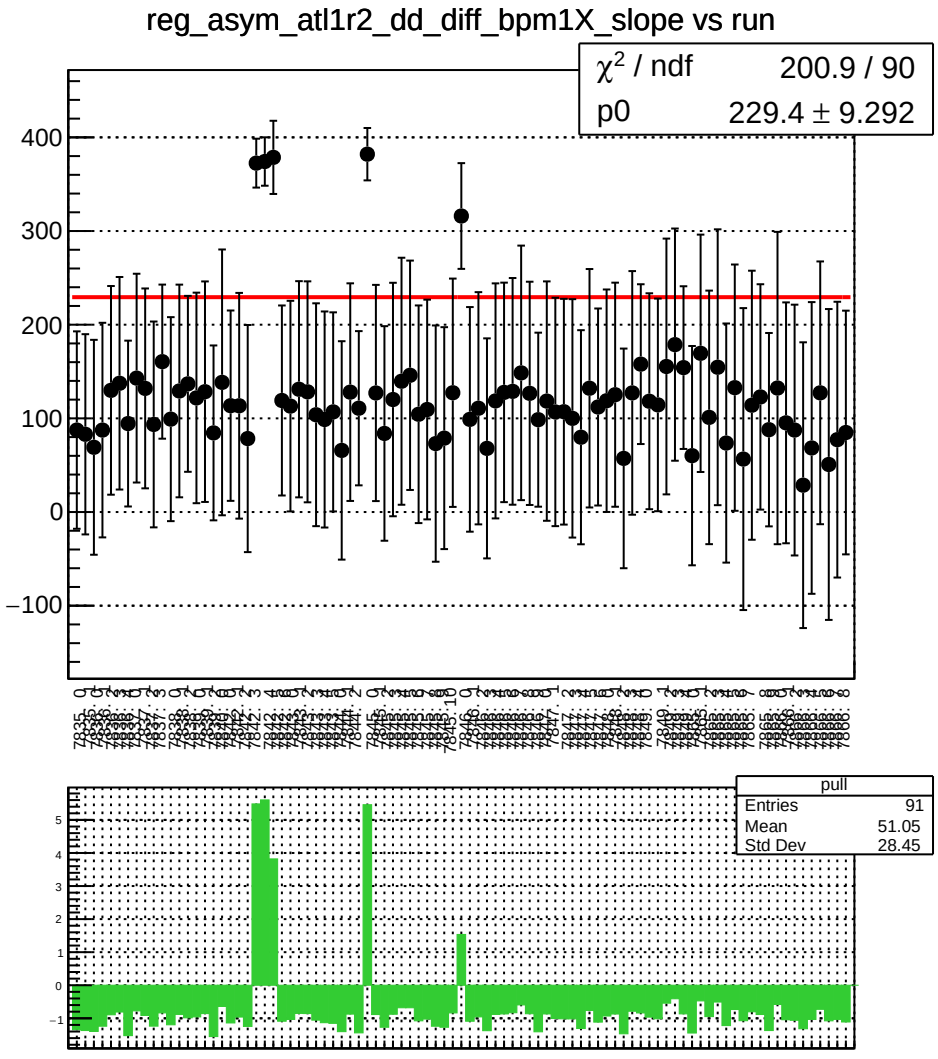

pull1D
Entries 91
Mean 0.0001897
Std Dev 0.2339

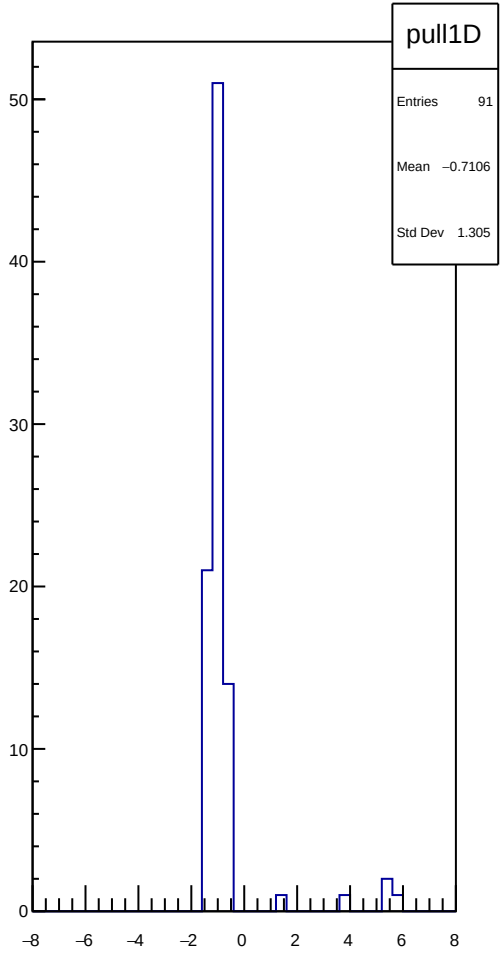

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 204.2 / 90
p0 306.3 ± 8.595
pull
Entries 91
Mean 45.63
Std Dev 27.68
pull1D
Entries 91
Mean −0.8
Std Dev 1.267

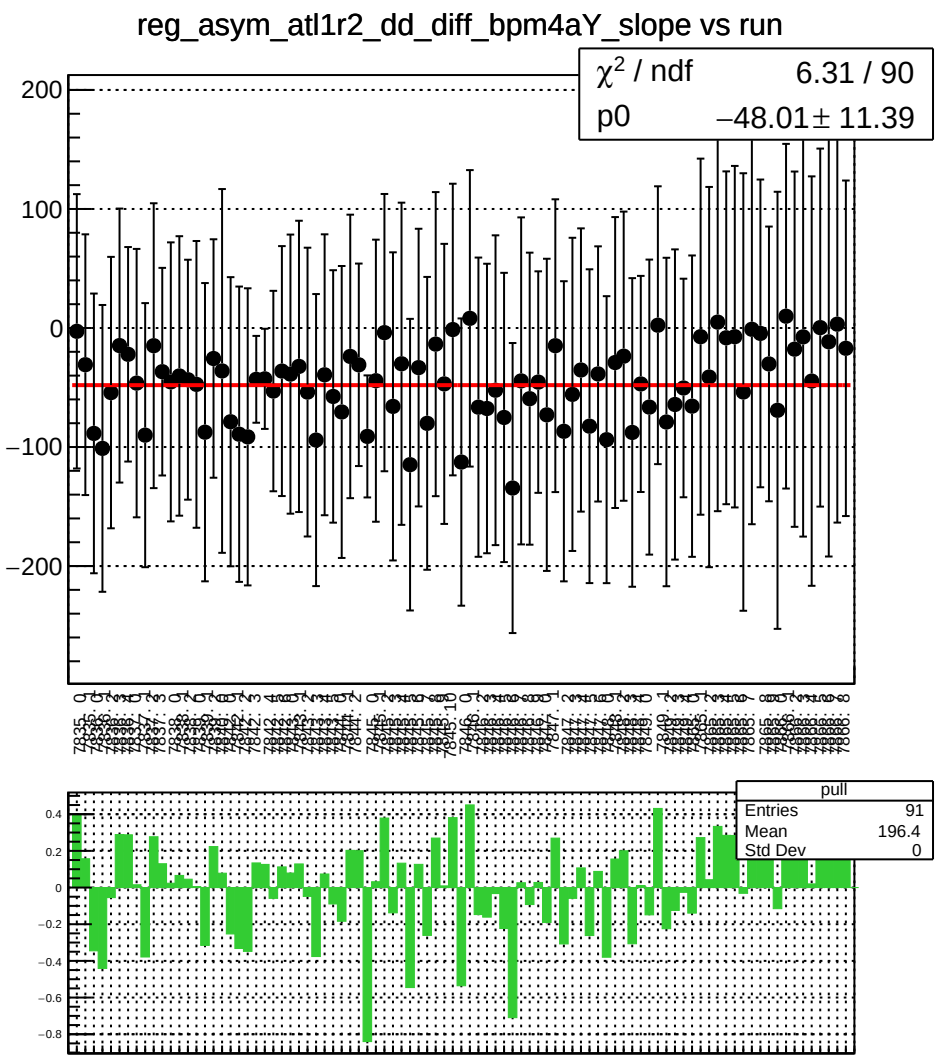

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.909 / 90
p0 −1.039 ± 14.58
pull
Entries 91
Mean 422.9
Std Dev 0

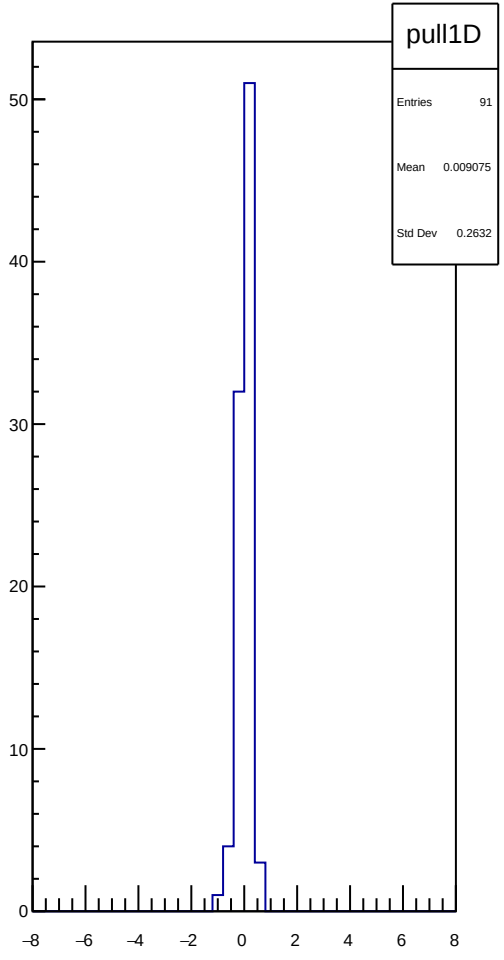

pull1D
Entries 91
Mean −0.003433
Std Dev 0.2322

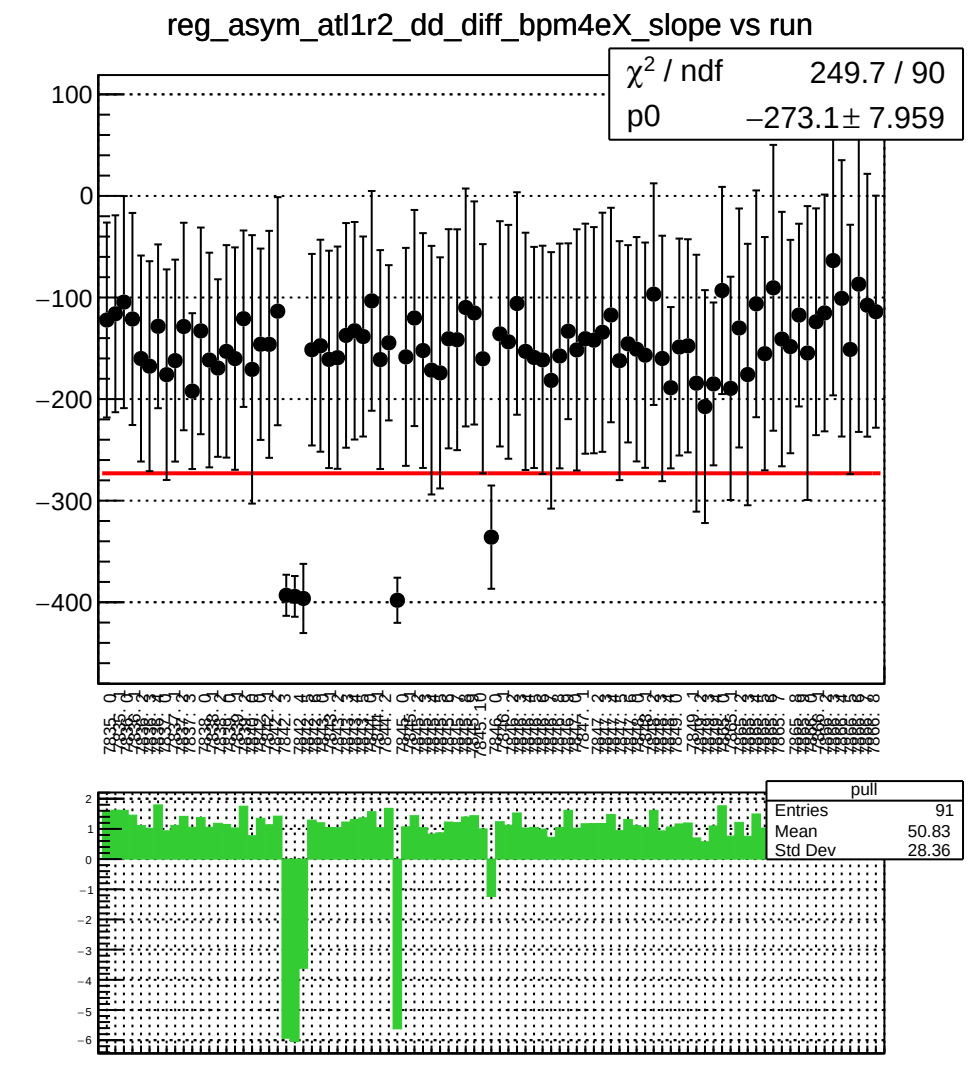

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 150.4 / 90
p0 −147.6 ± 0.4511
−130
−140
−150
−160
−170
pull
Entries 91
Mean 51.77
Std Dev 0
6
4
2
0
−2
pull1D
Entries 91
Mean −0.0443
Std Dev 1.285
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

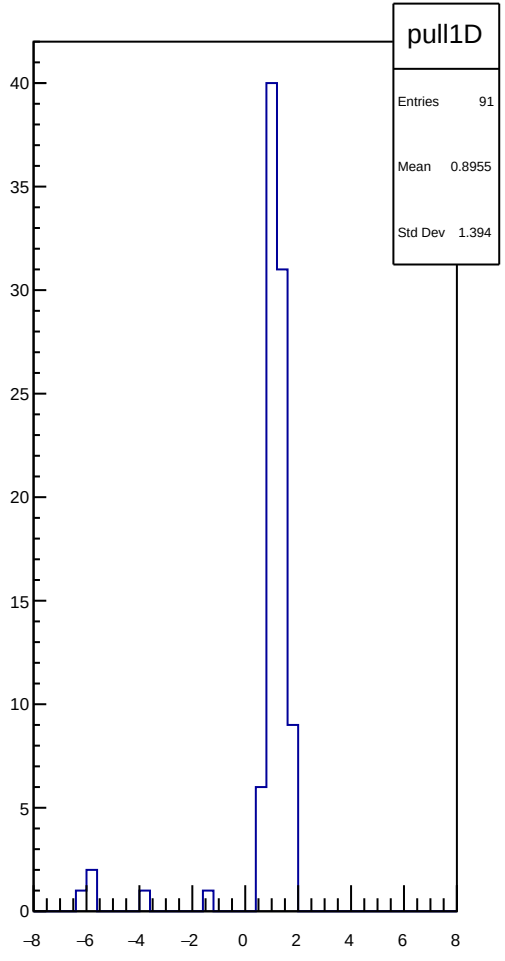

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 200.9 / 90
p0 229.4 ± 9.292
400
300
200
100
0
−100
pull
Entries 91
Mean 51.05
Std Dev 28.45
5
4
3
2
1
0
−1

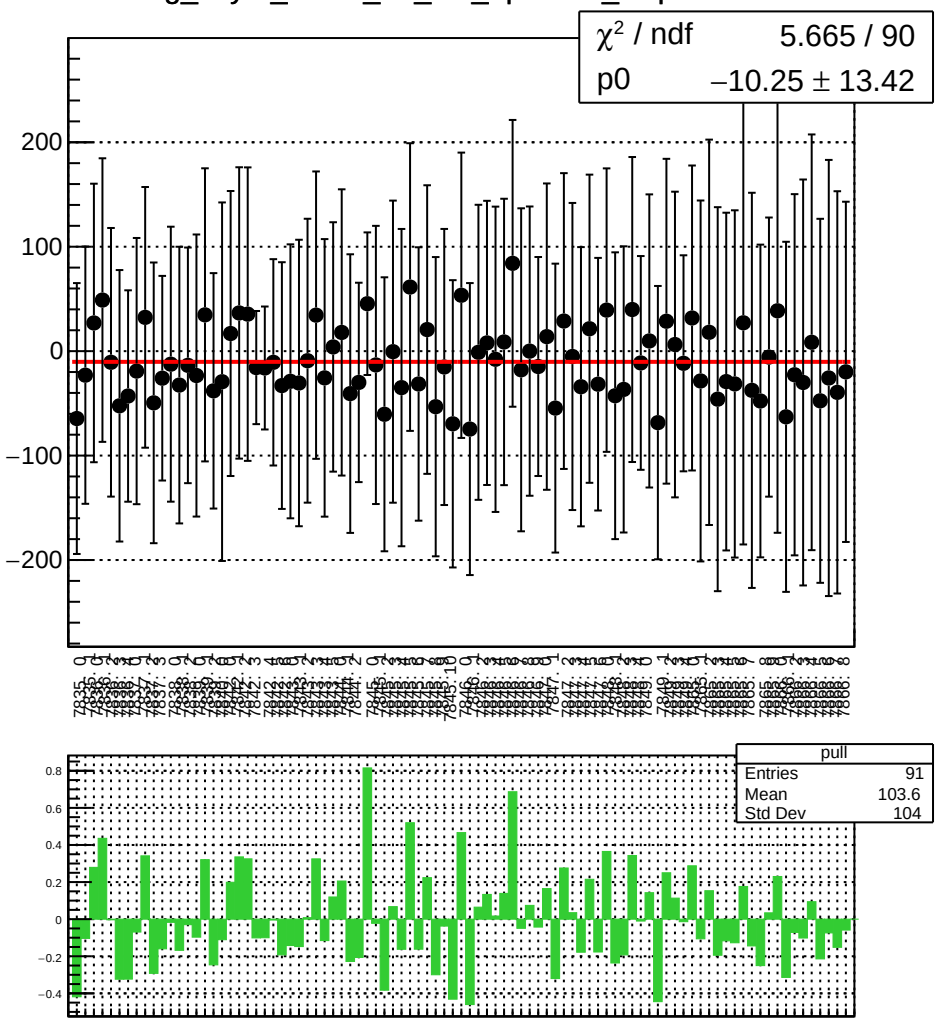

pull1D
Entries 91
Mean −0.7106
Std Dev 1.305
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

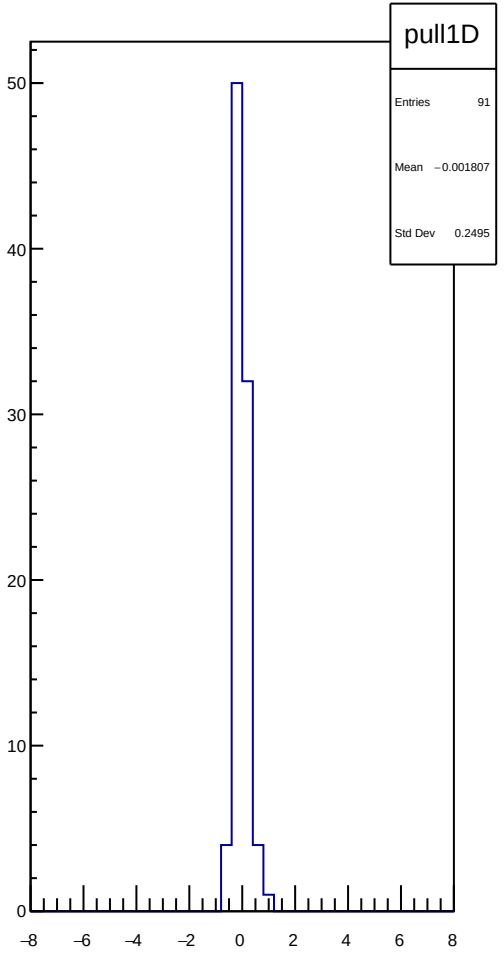

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.31 / 90
p0 −48.01 ± 11.39
200
100
0
−100
−200
pull
Entries 91
Mean 196.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

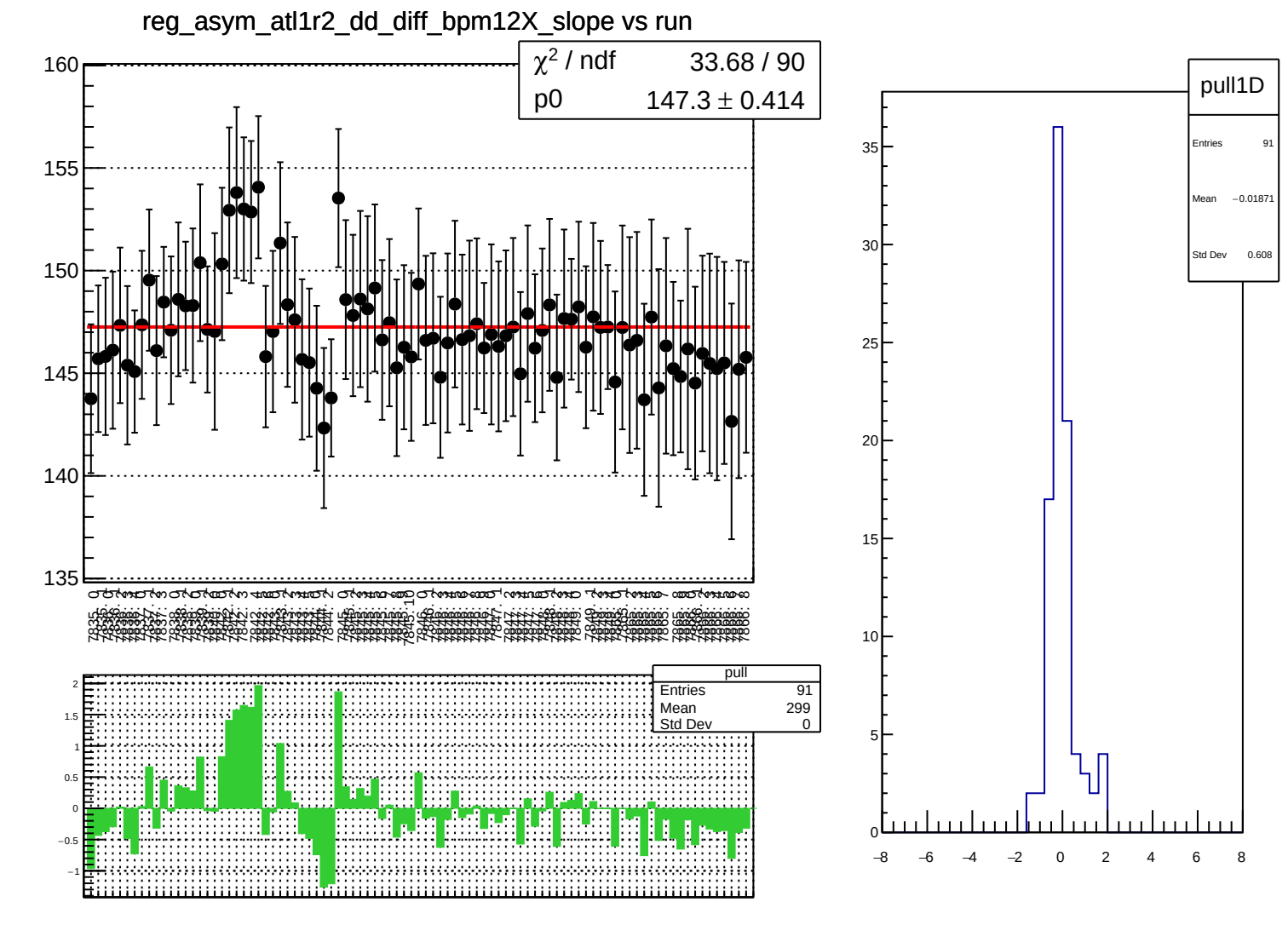

pull1D
Entries 91
Mean 0.009075
Std Dev 0.2632
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

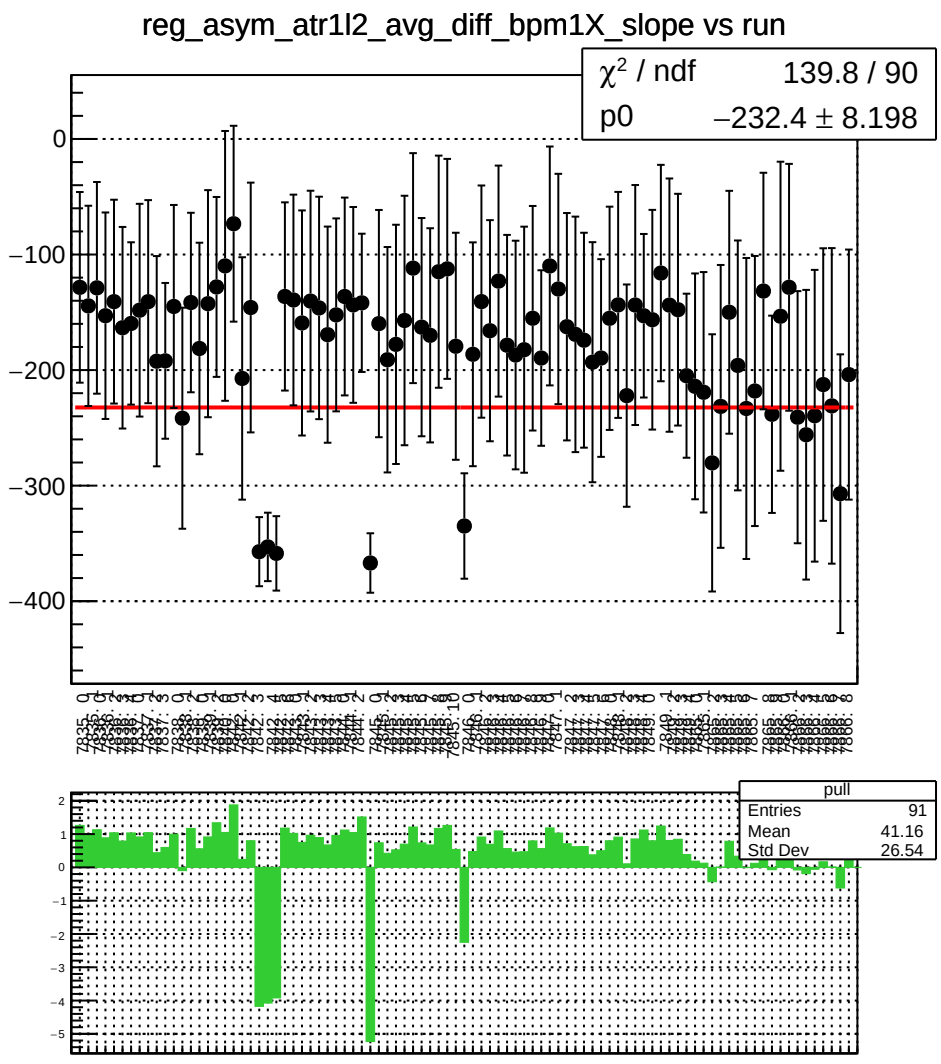

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 249.7 / 90
p0 −273.1± 7.959
pull
Entries 91
Mean 50.83
Std Dev 28.36

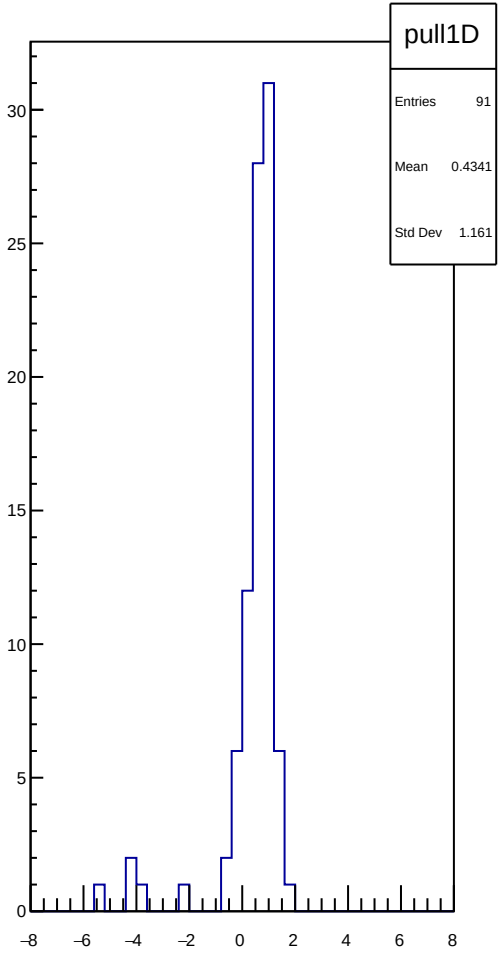

pull1D
Entries 91
Mean 0.8955
Std Dev 1.394

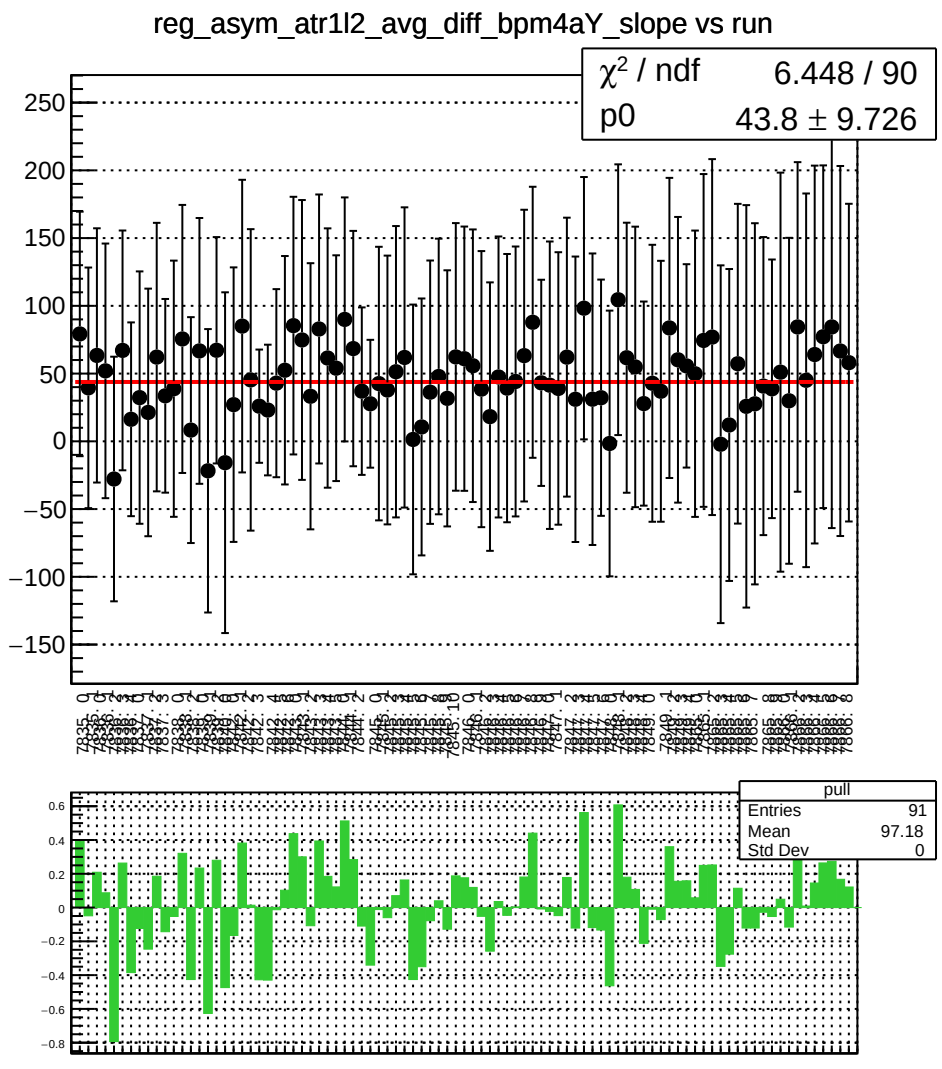

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.665 / 90
p0 −10.25 ± 13.42
200
100
0
−100
−200
pull
Entries 91
Mean 103.6
Std Dev 104
0.8
0.6
0.4
0.2
0
−0.2
−0.4

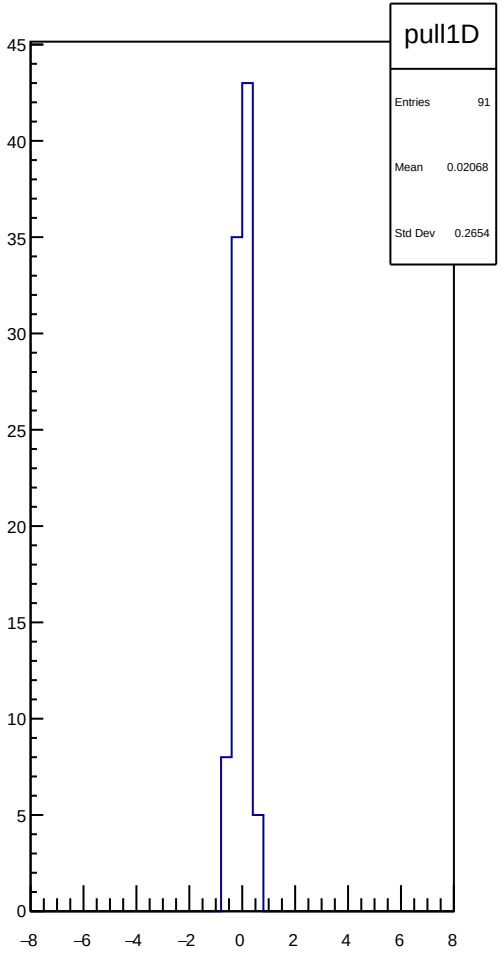

pull1D
Entries 91
Mean −0.001807
Std Dev 0.2495
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

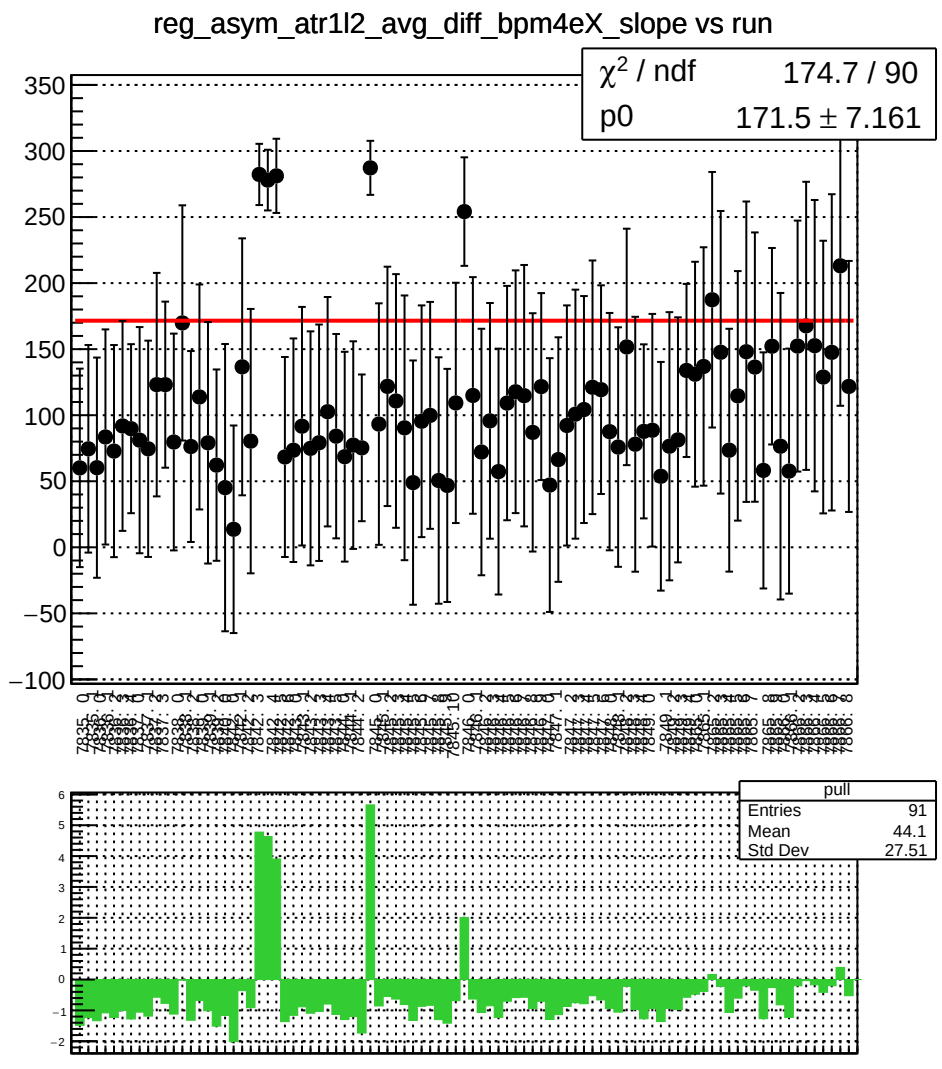

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 33.68 / 90
p0 147.3 ± 0.414
160
155
150
145
140
135
pull
Entries 91
Mean 299
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.01871
Std Dev 0.608
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

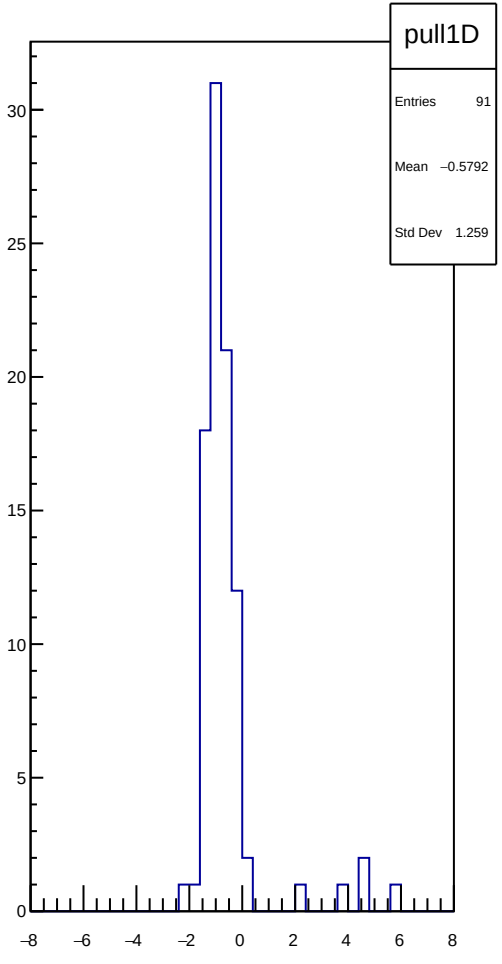

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 139.8 / 90
p0 −232.4 ± 8.198
pull
Entries 91
Mean 41.16
Std Dev 26.54

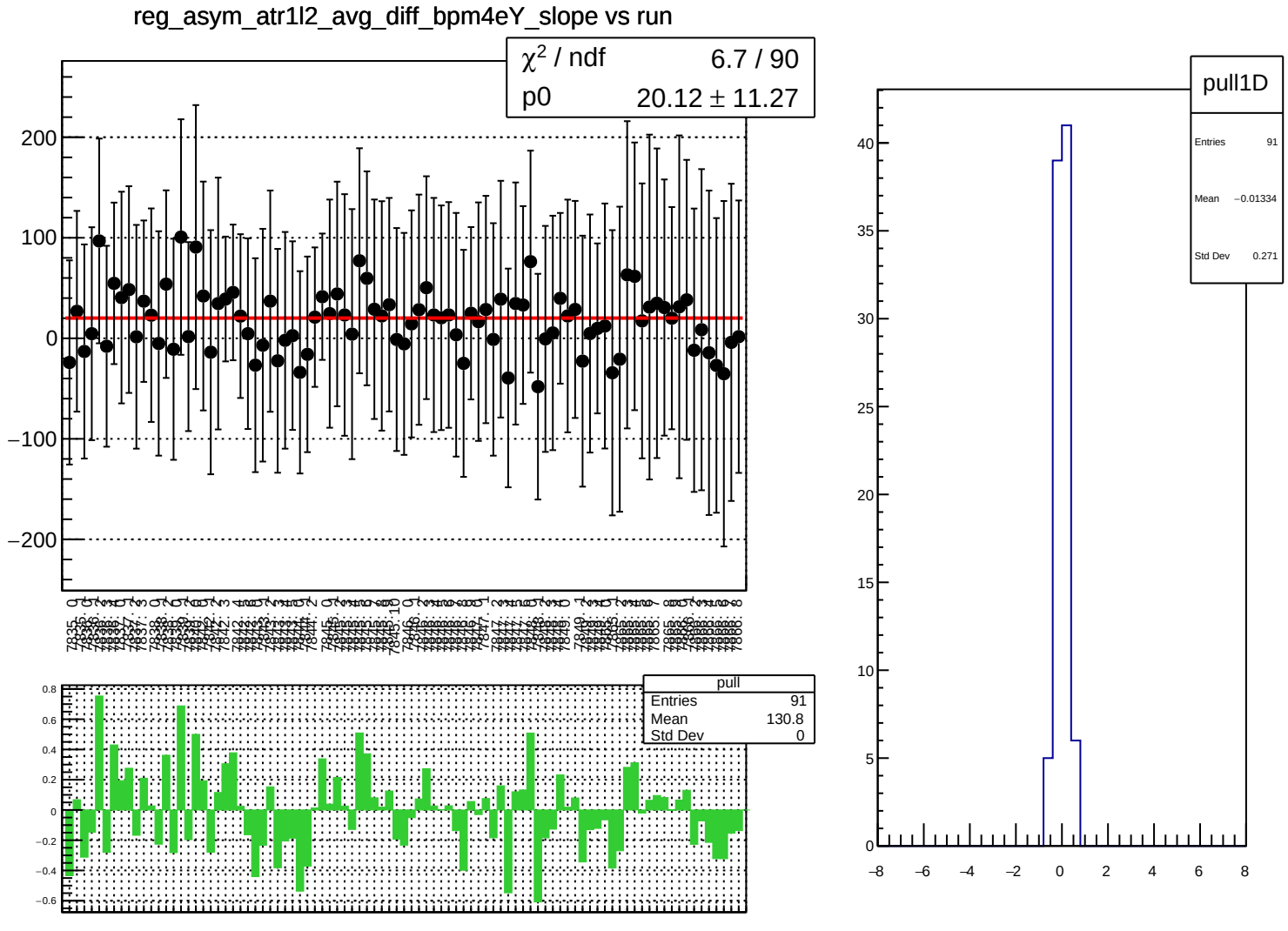

pull1D
Entries 91
Mean 0.4341
Std Dev 1.161

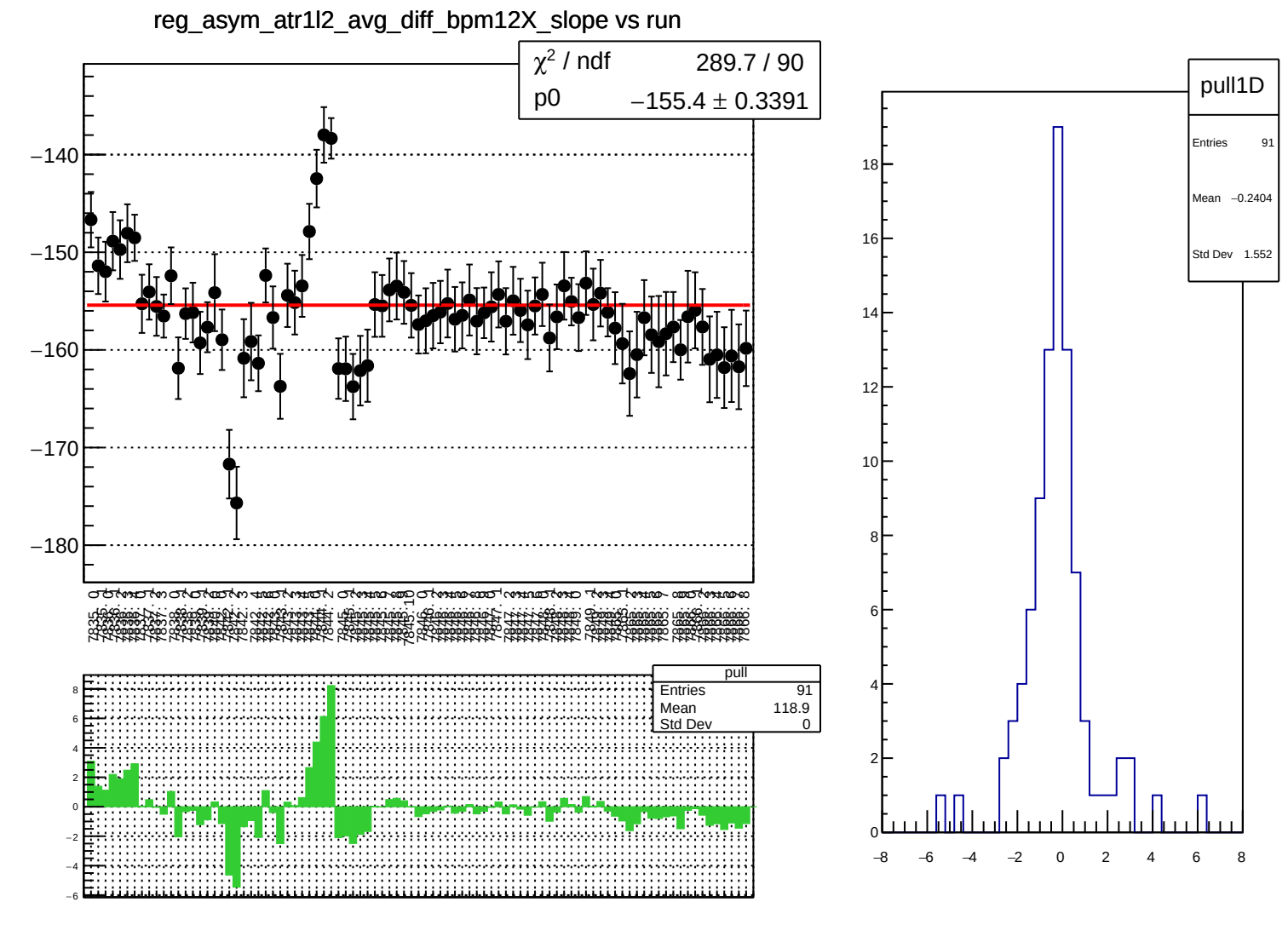

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.448 / 90
p0 43.8 ± 9.726
pull
Entries 91
Mean 97.18
Std Dev 0

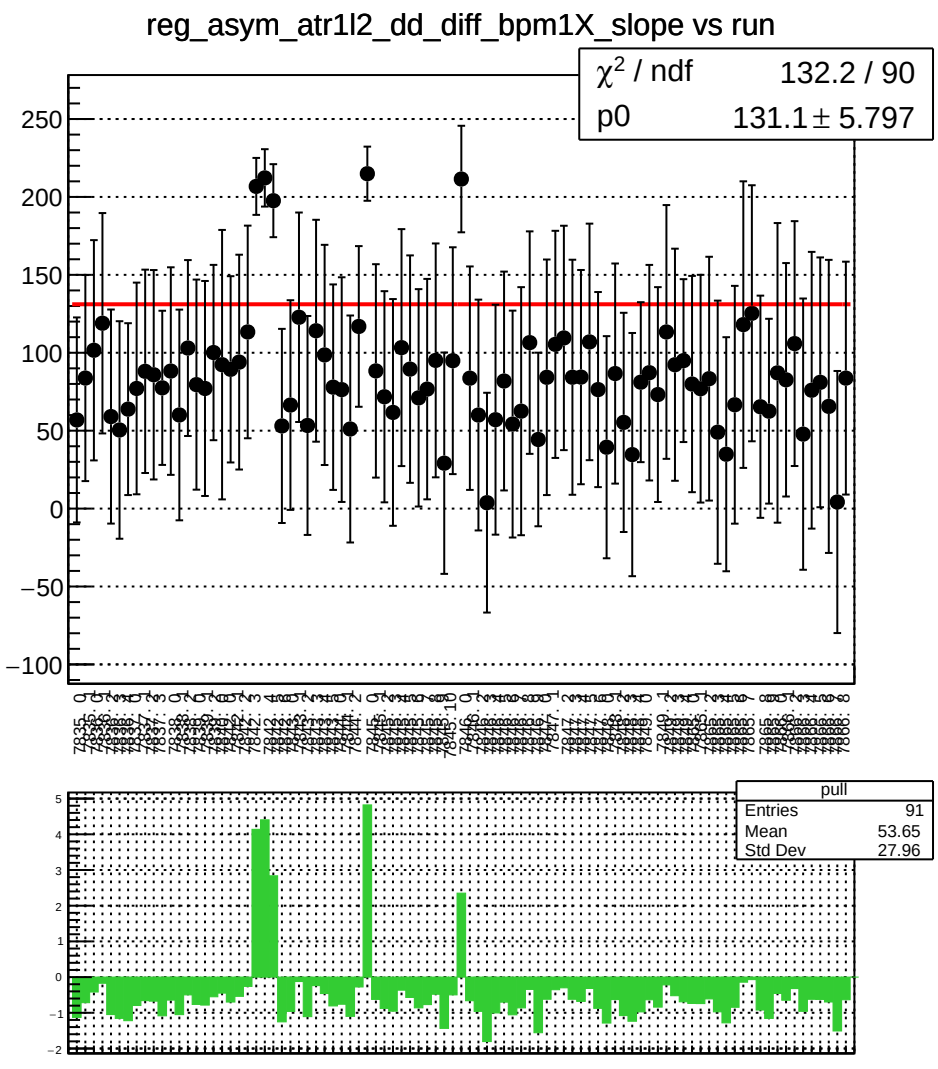

pull1D
Entries 91
Mean 0.02068
Std Dev 0.2654

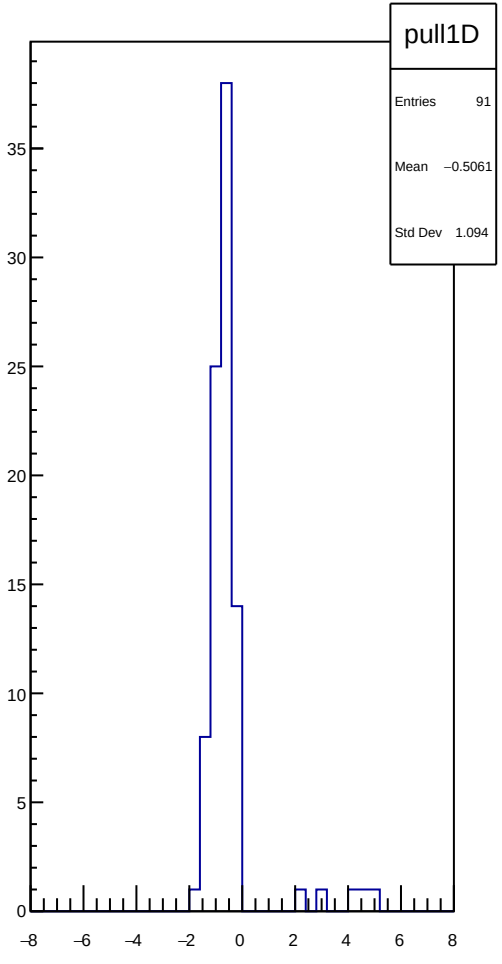

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 174.7 / 90
p0 171.5 ± 7.161
pull
Entries 91
Mean 44.1
Std Dev 27.51

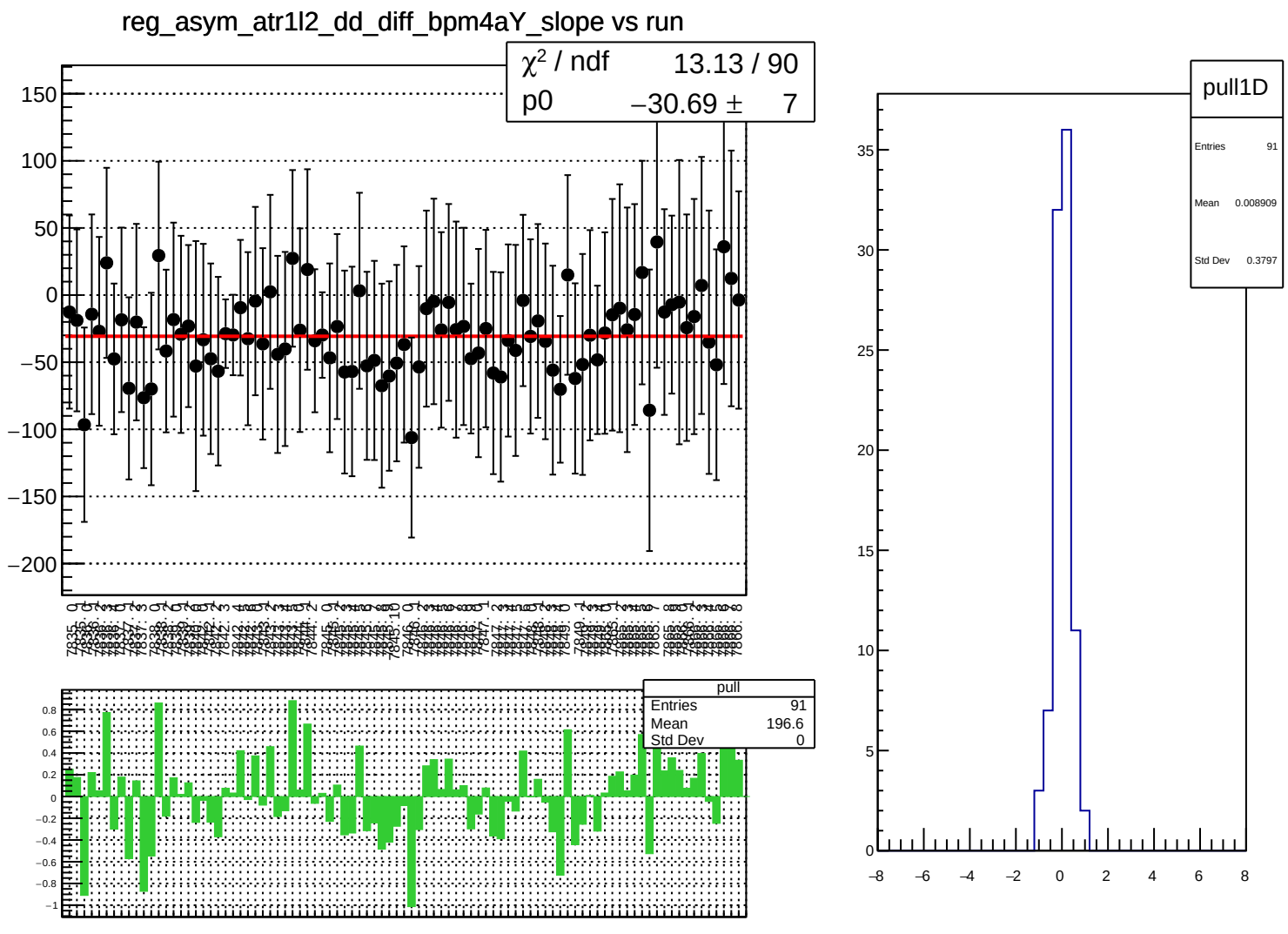

pull1D
Entries 91
Mean −0.5792
Std Dev 1.259

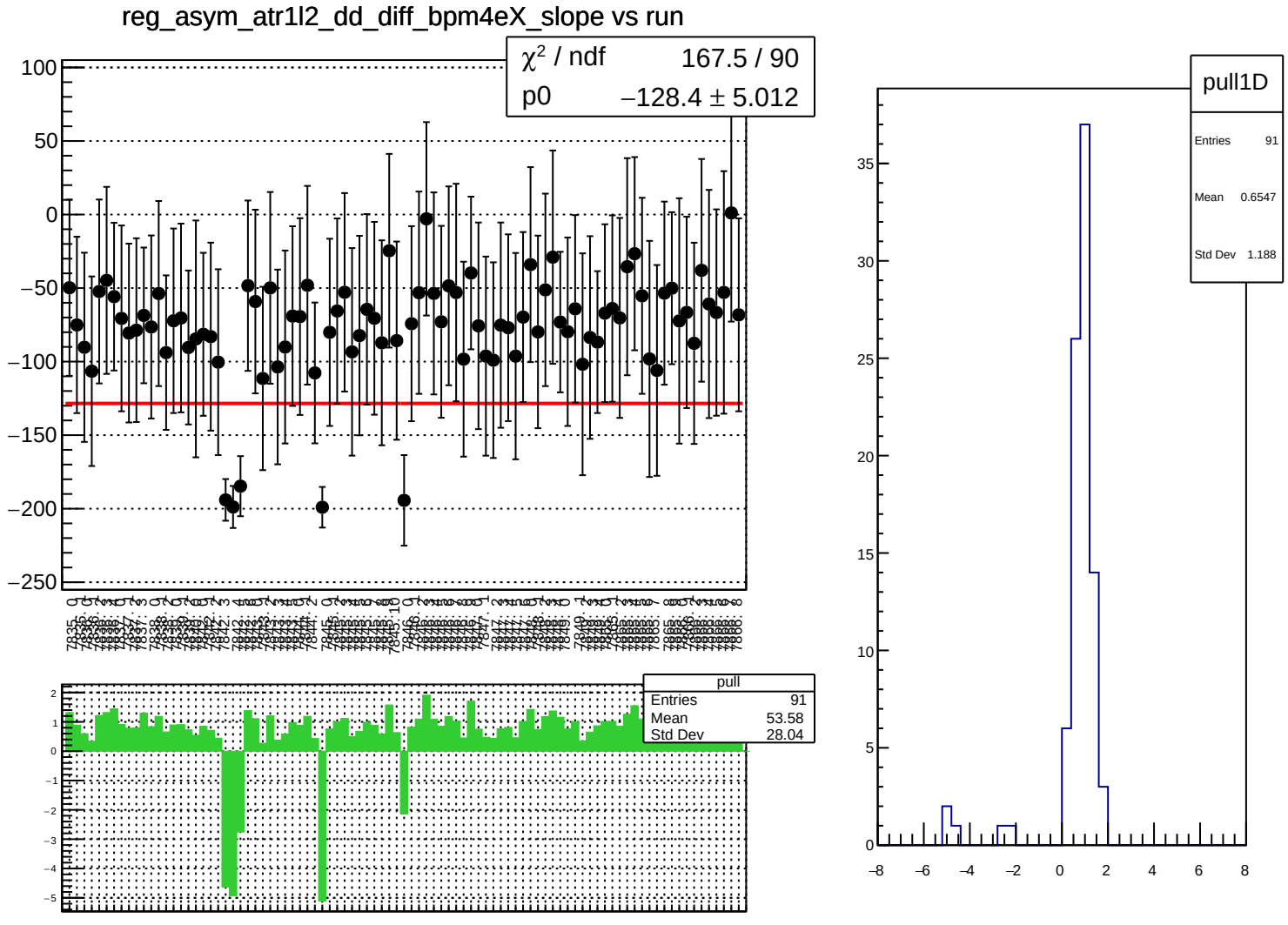

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.7 / 90
p0 20.12 ± 11.27
200
100
0
−100
−200
pull
Entries 91
Mean 130.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean −0.01334
Std Dev 0.271
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

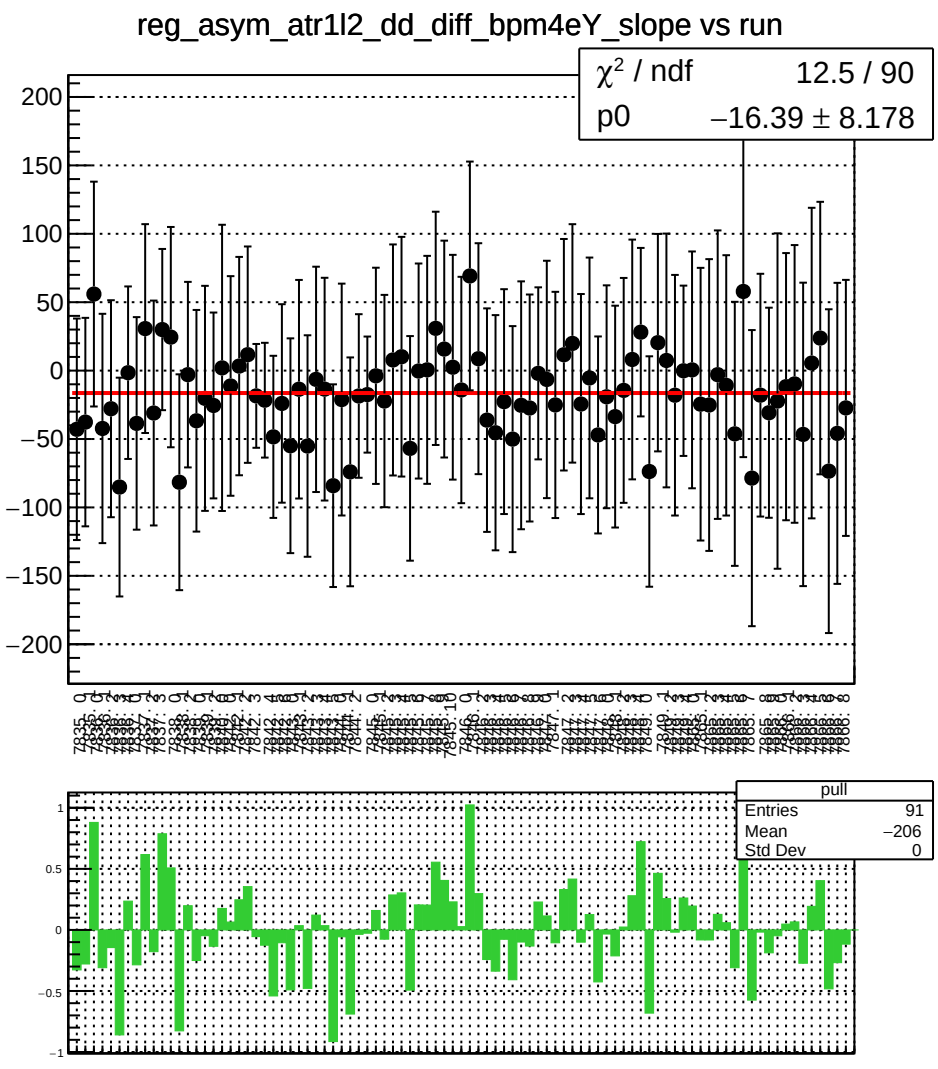

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 289.7 / 90
p0 −155.4 ± 0.3391
−140
−150
−160
−170
−180
pull
Entries 91
Mean 118.9
Std Dev 0
pull1D
Entries 91
Mean −0.2404
Std Dev 1.552

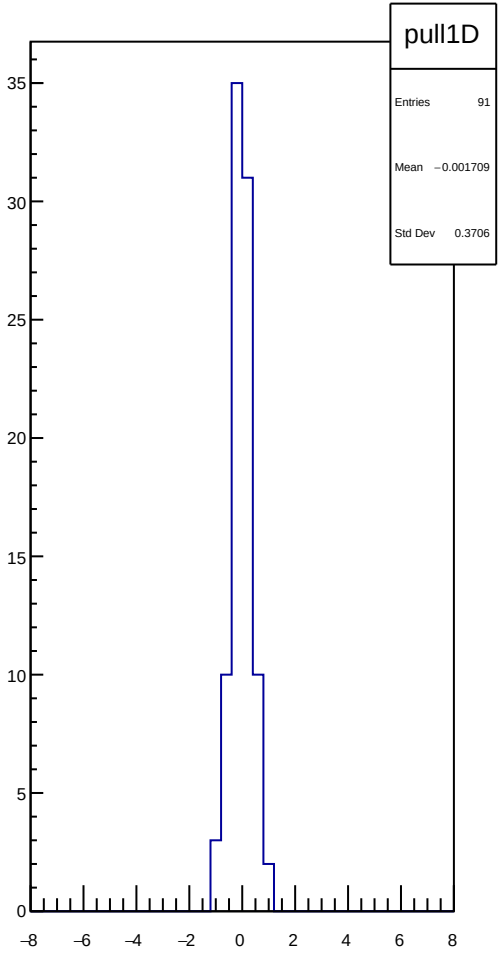

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 132.2 / 90
p0 131.1 ± 5.797
pull
Entries 91
Mean 53.65
Std Dev 27.96

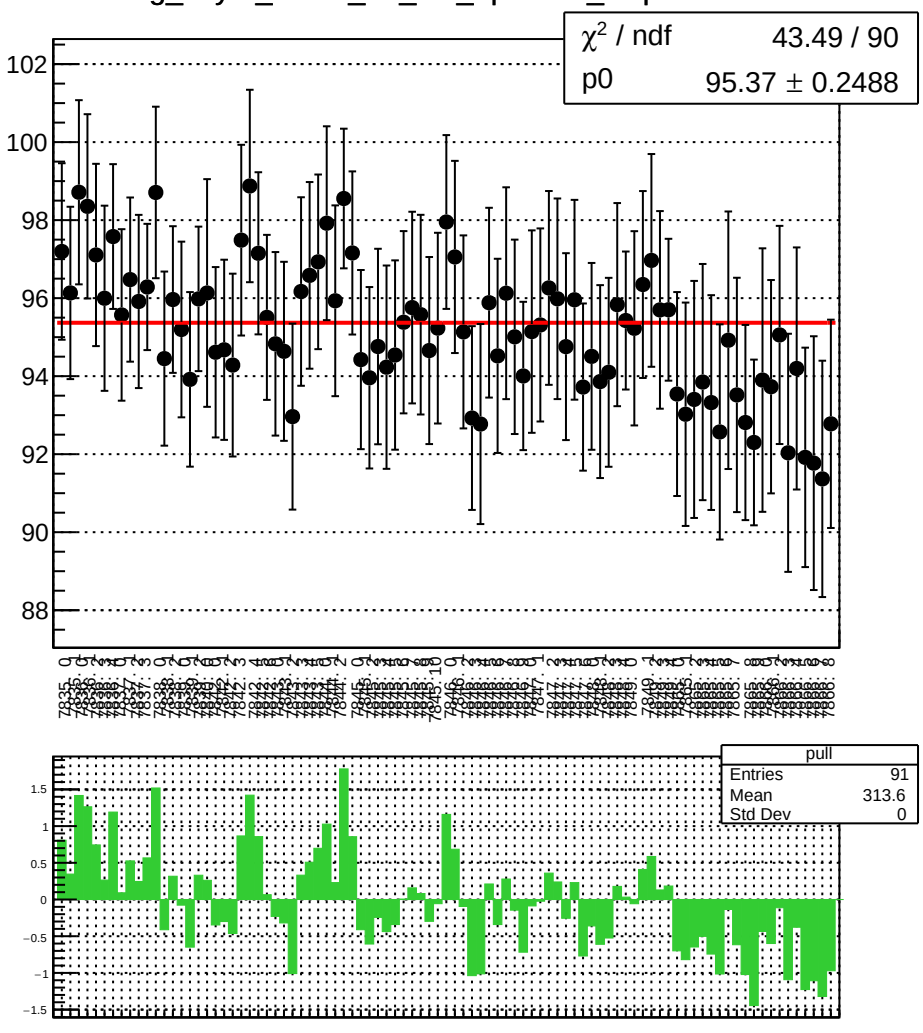

pull1D
Entries 91
Mean −0.5061
Std Dev 1.094

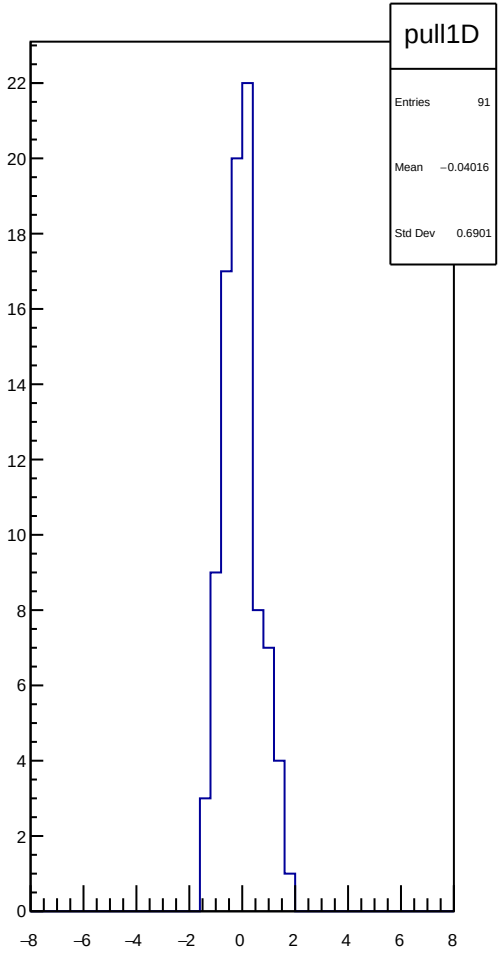

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.13 / 90
p0 −30.69 ± 7
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 196.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 91
Mean 0.008909
Std Dev 0.3797
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

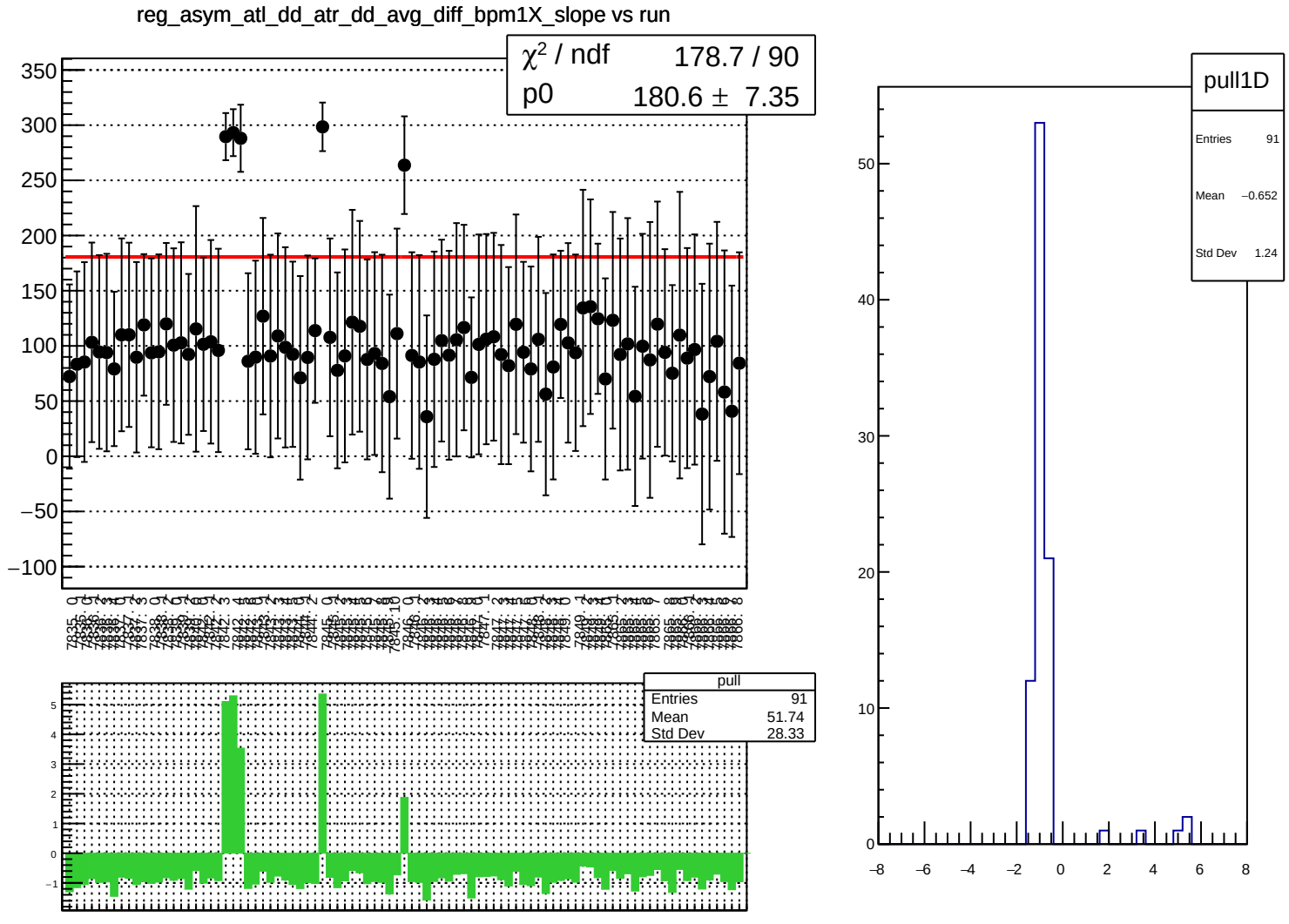

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 167.5 / 90
p0 −128.4 ± 5.012
pull
Entries 91
Mean 53.58
Std Dev 28.04
pull1D
Entries 91
Mean 0.6547
Std Dev 1.188

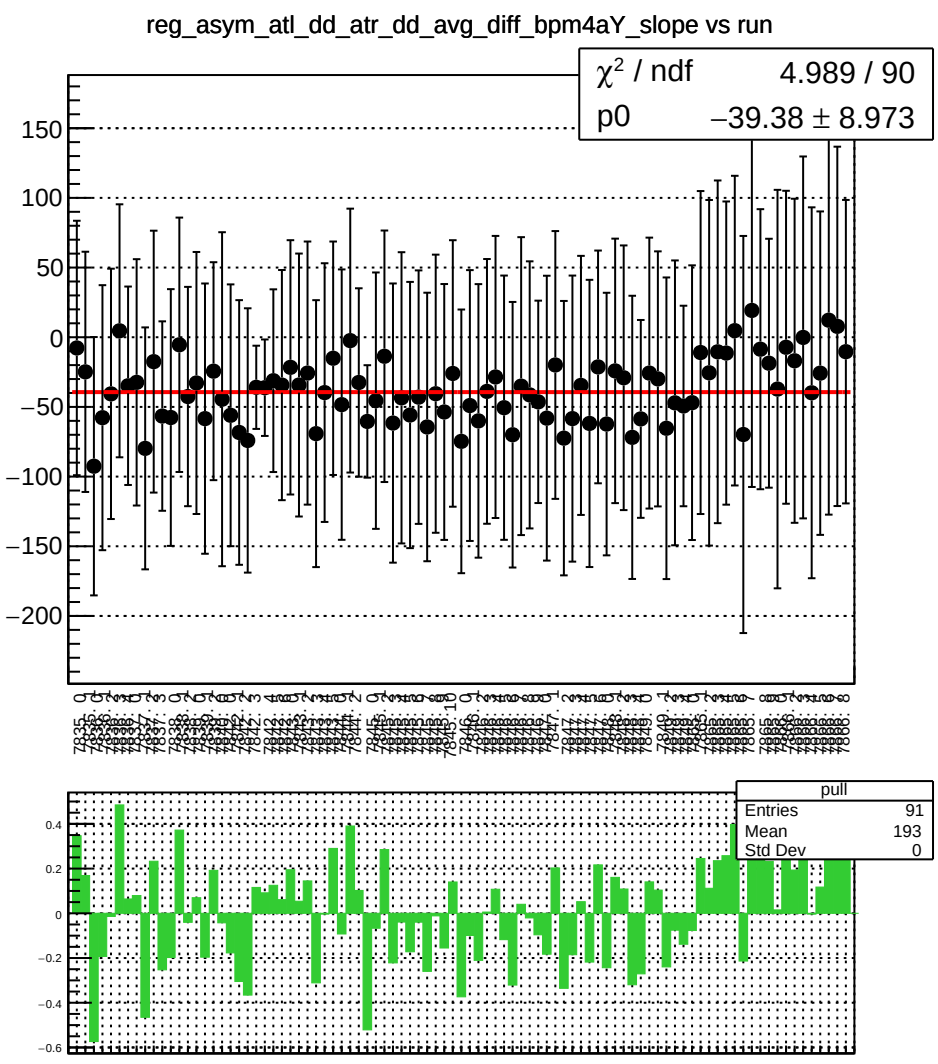

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.5 / 90
p0 −16.39 ± 8.178
pull
Entries 91
Mean −206
Std Dev 0

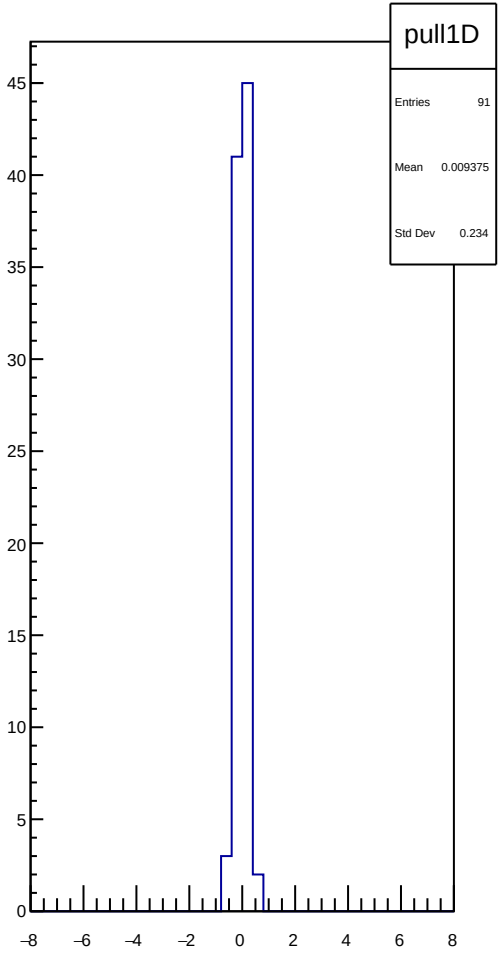

pull1D
Entries 91
Mean −0.001709
Std Dev 0.3706

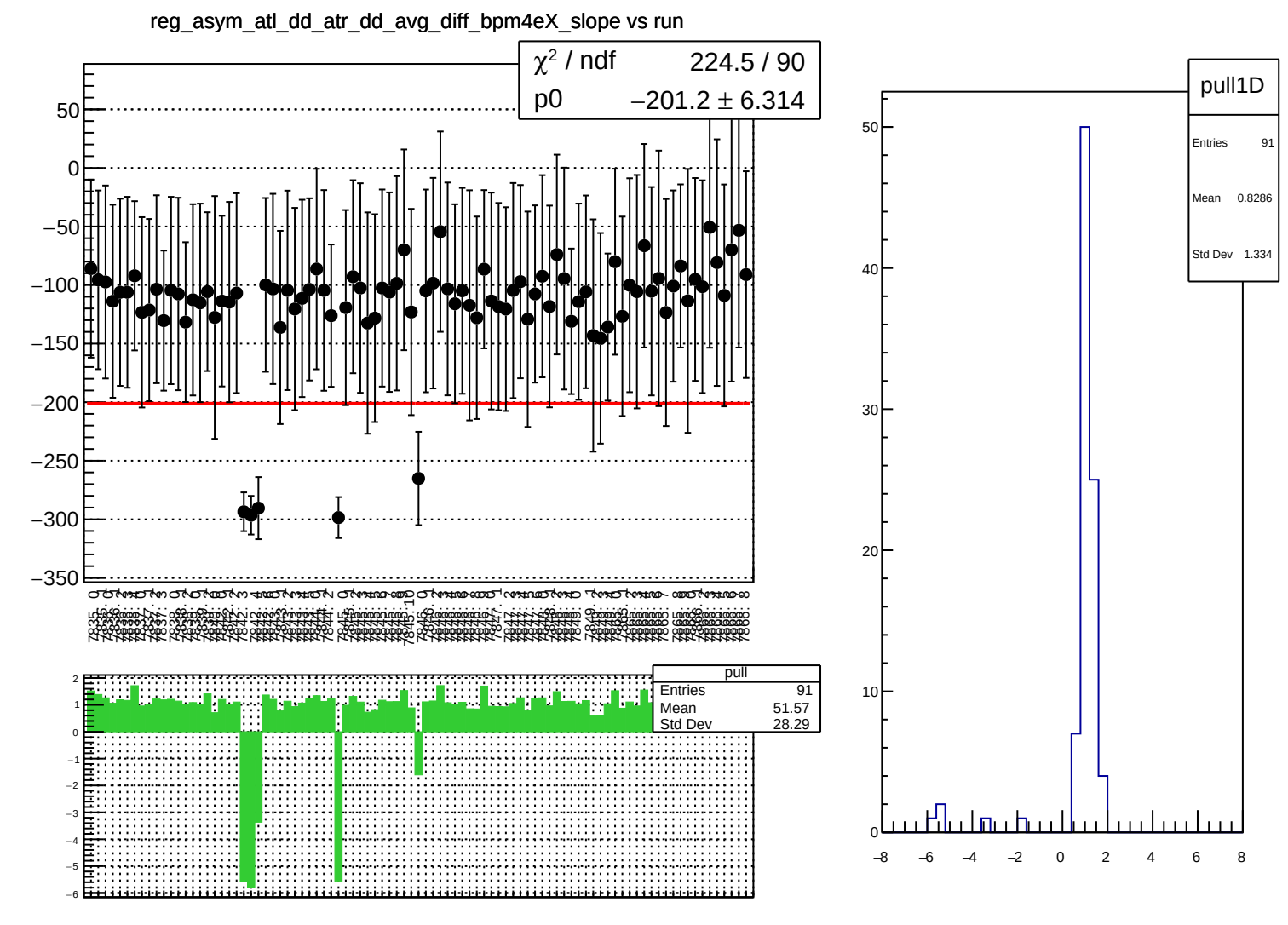

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 43.49 / 90
p0 95.37 ± 0.2488
pull
Entries 91
Mean 313.6
Std Dev 0

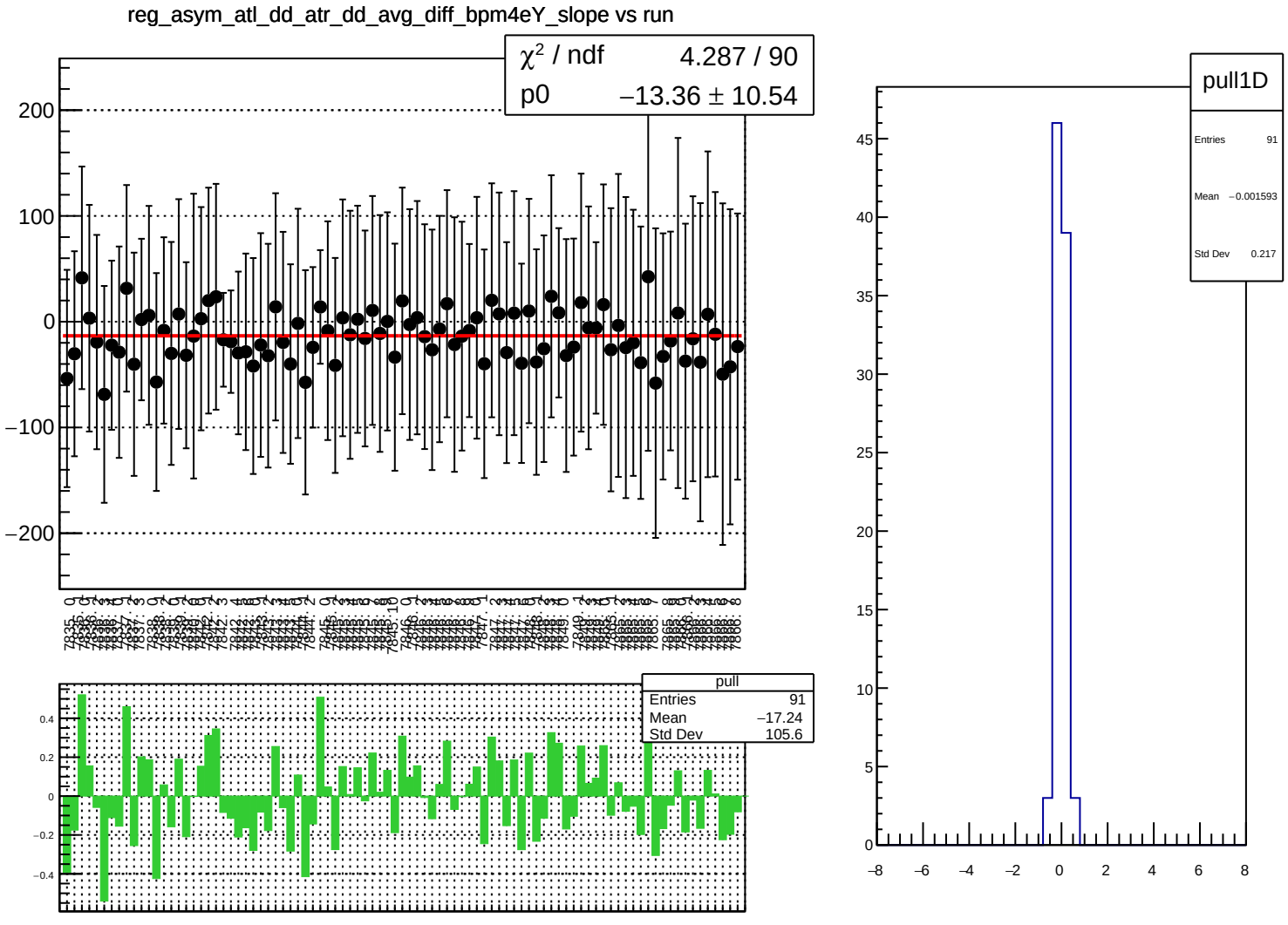

pull1D
Entries 91
Mean −0.04016
Std Dev 0.6901

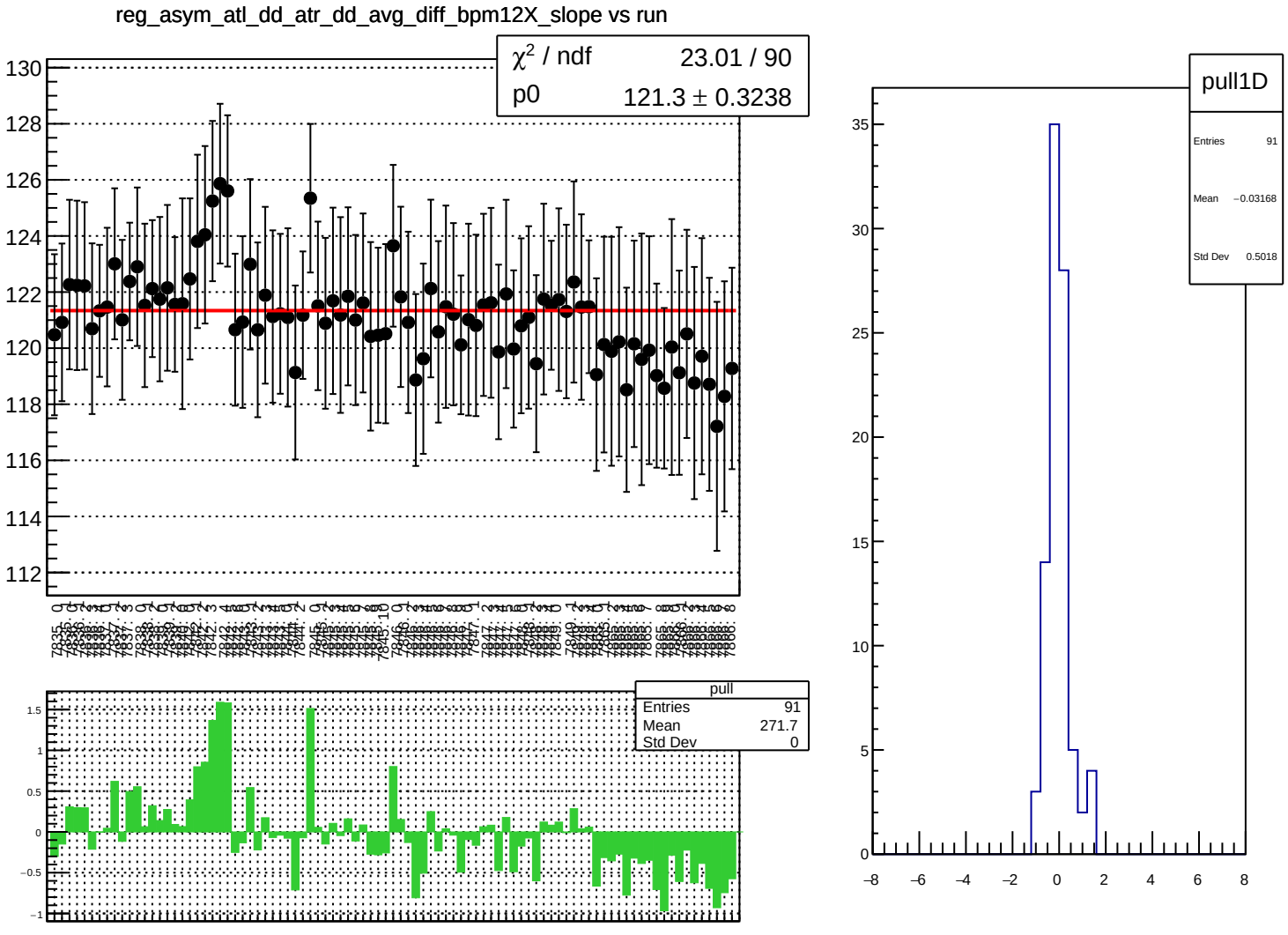

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 178.7 / 90
p0 180.6 ± 7.35
pull
Entries 91
Mean 51.74
Std Dev 28.33
pull1D
Entries 91
Mean −0.652
Std Dev 1.24

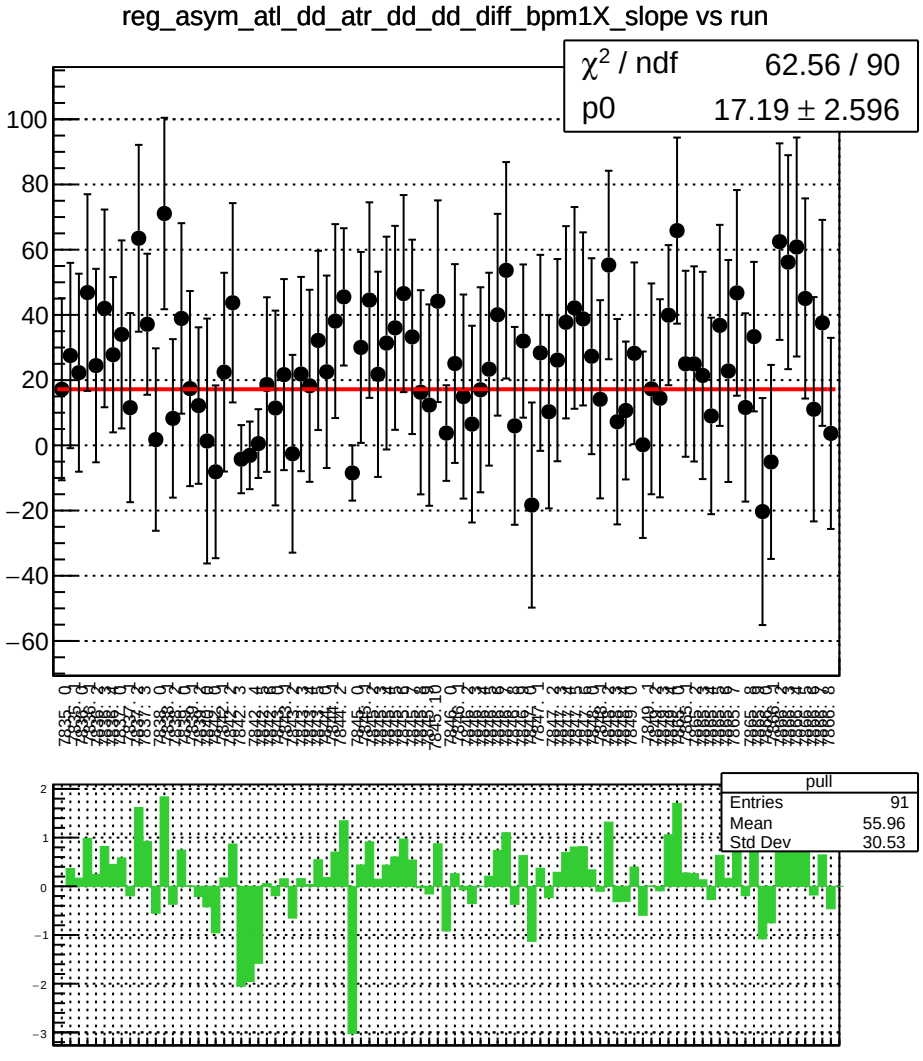

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.989 / 90
p0 −39.38 ± 8.973
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 193
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

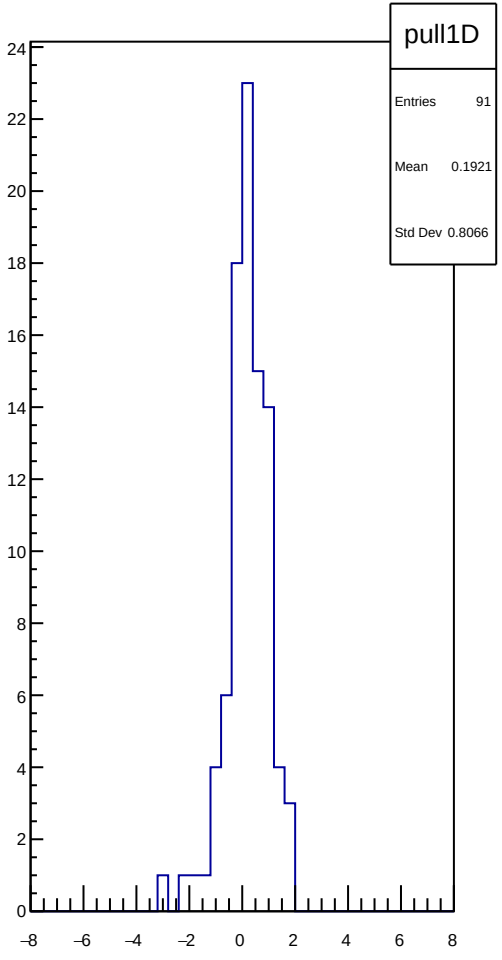

pull1D
Entries 91
Mean 0.009375
Std Dev 0.234
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

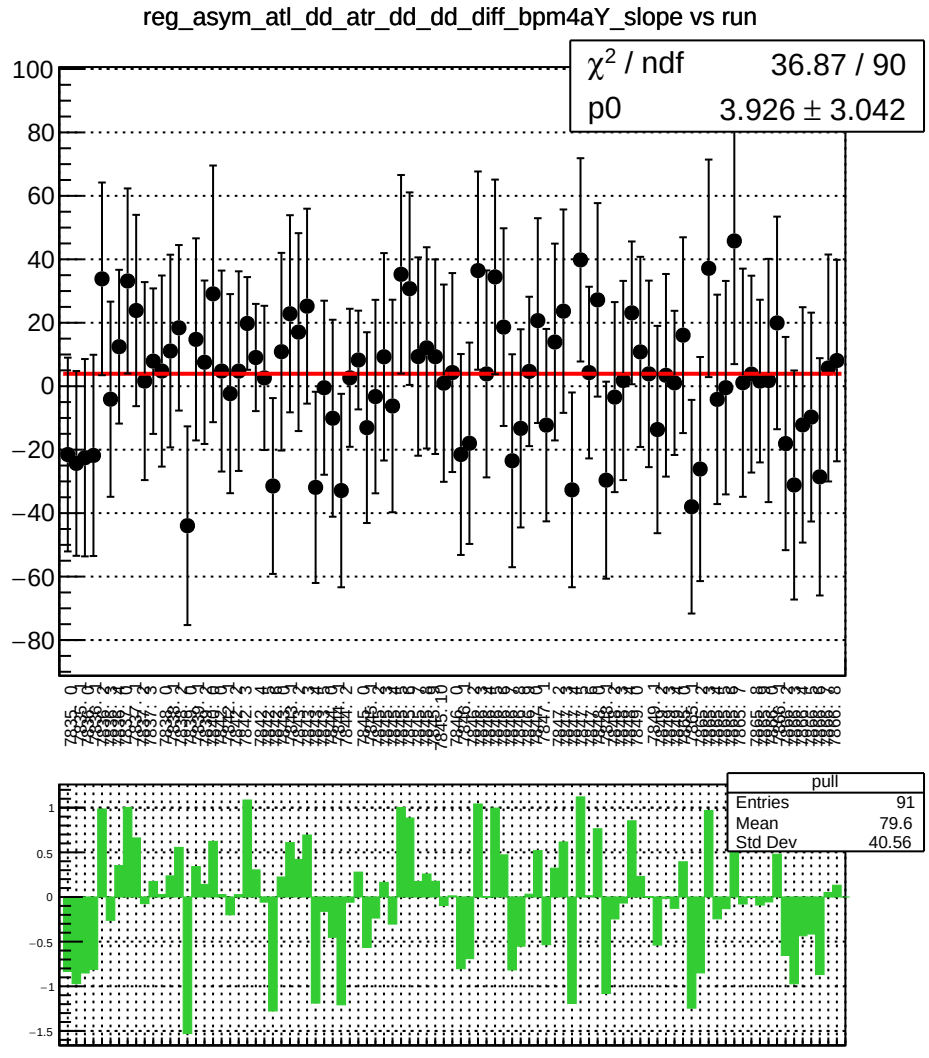

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 224.5 / 90
p0 −201.2 ± 6.314
pull
Entries 91
Mean 51.57
Std Dev 28.29
pull1D
Entries 91
Mean 0.8286
Std Dev 1.334

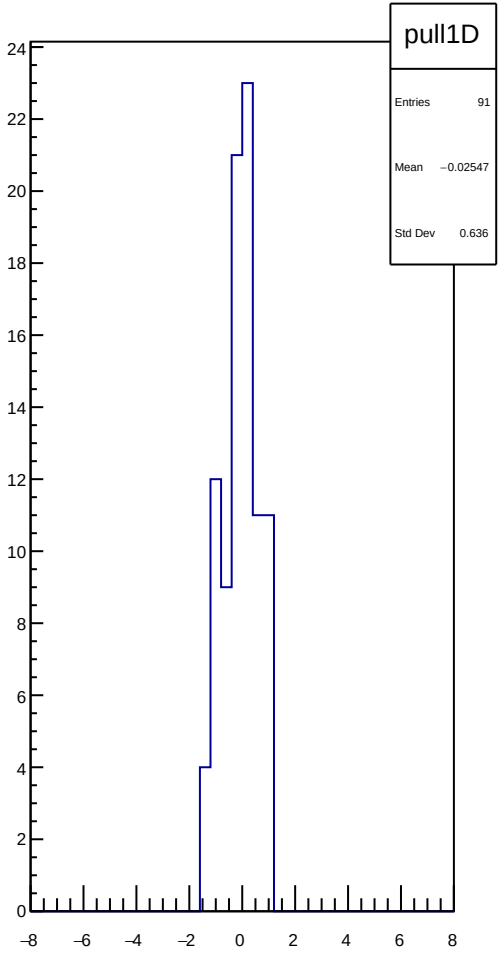

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.287 / 90
p0 −13.36 ± 10.54
200
100
0
−100
−200
pull
Entries 91
Mean −17.24
Std Dev 105.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean −0.001593
Std Dev 0.217
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

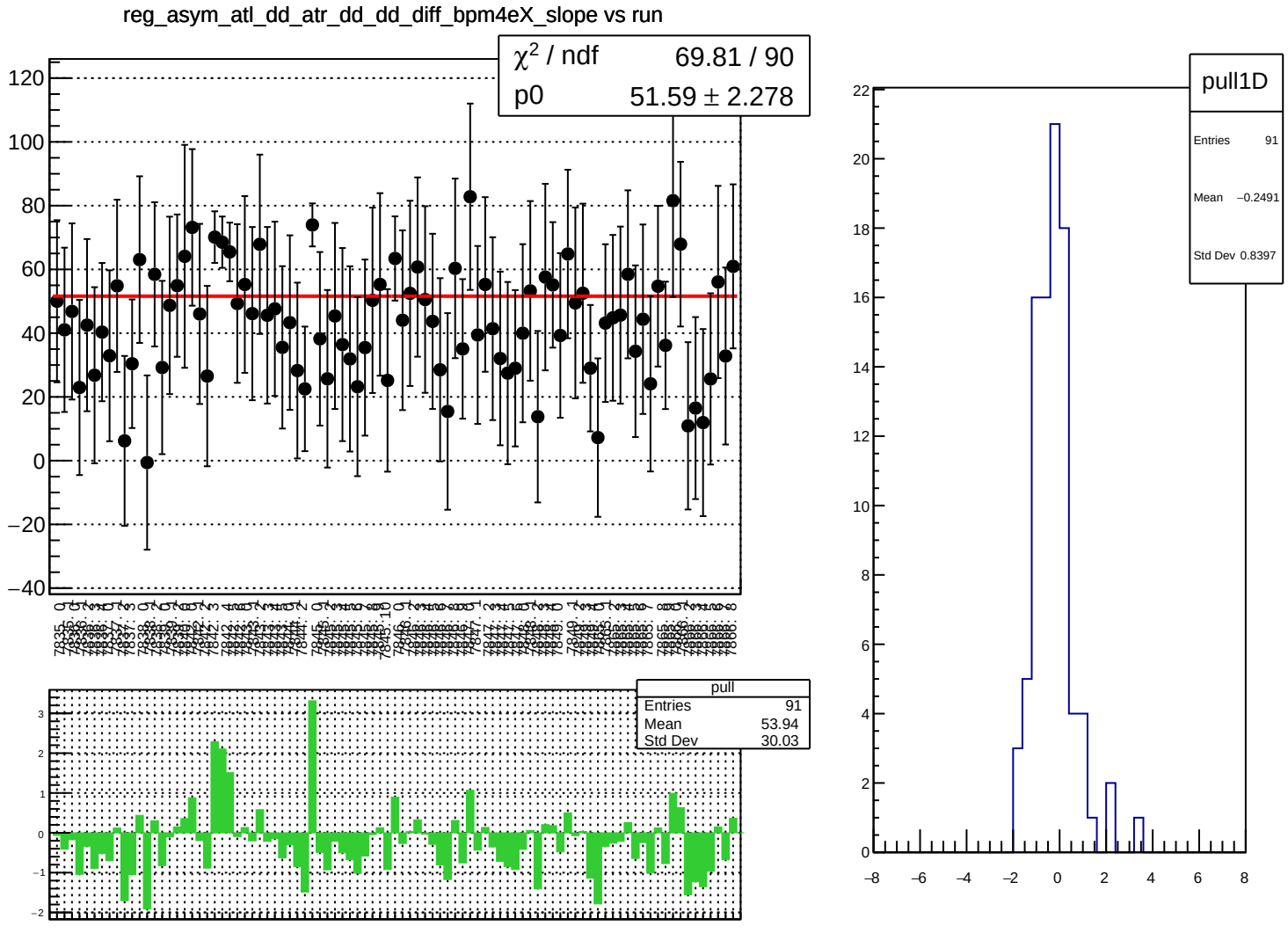

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 23.01 / 90
p0 121.3 ± 0.3238
pull
Entries 91
Mean 271.7
Std Dev 0
pull1D
Entries 91
Mean −0.03168
Std Dev 0.5018

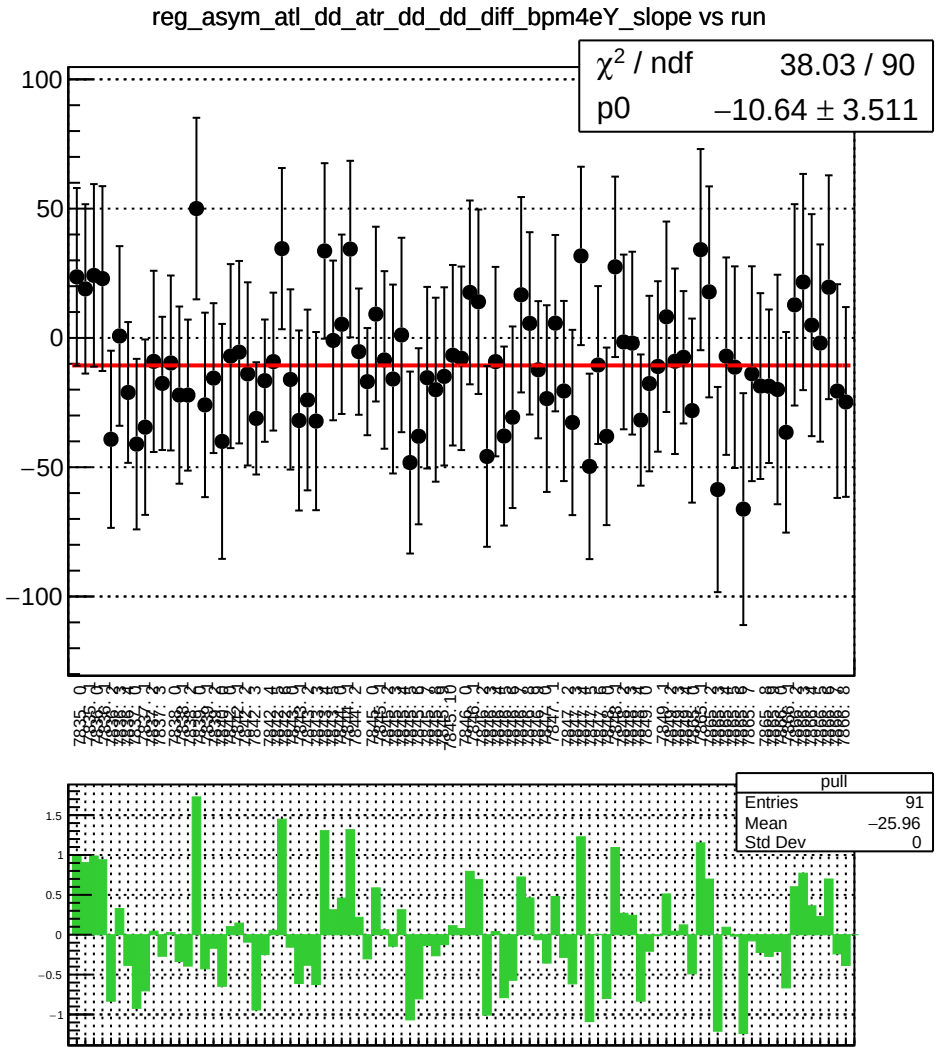

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 62.56 / 90
p0 17.19 ± 2.596
pull
Entries 91
Mean 55.96
Std Dev 30.53

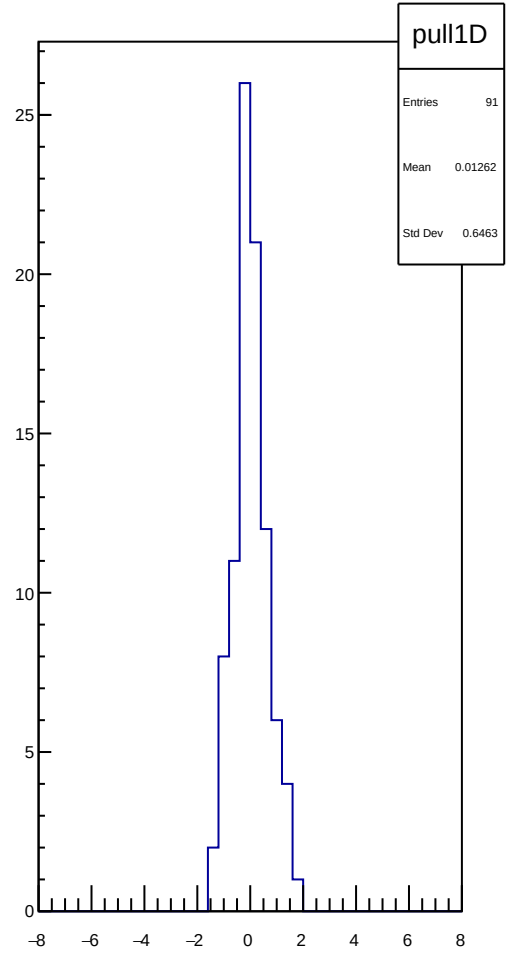

pull1D
Entries 91
Mean 0.1921
Std Dev 0.8066

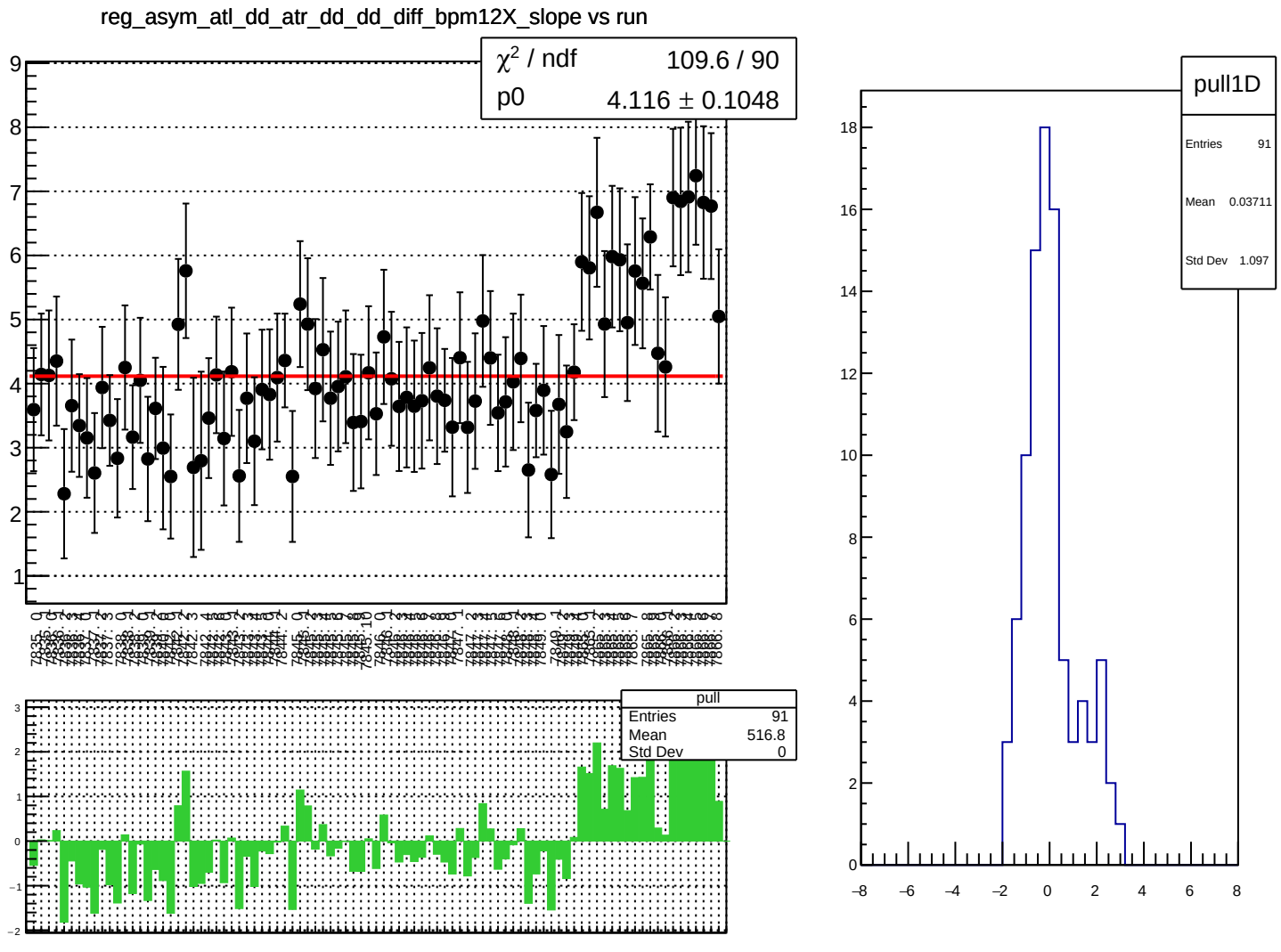

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.87 / 90
p0 3.926 ± 3.042
pull
Entries 91
Mean 79.6
Std Dev 40.56

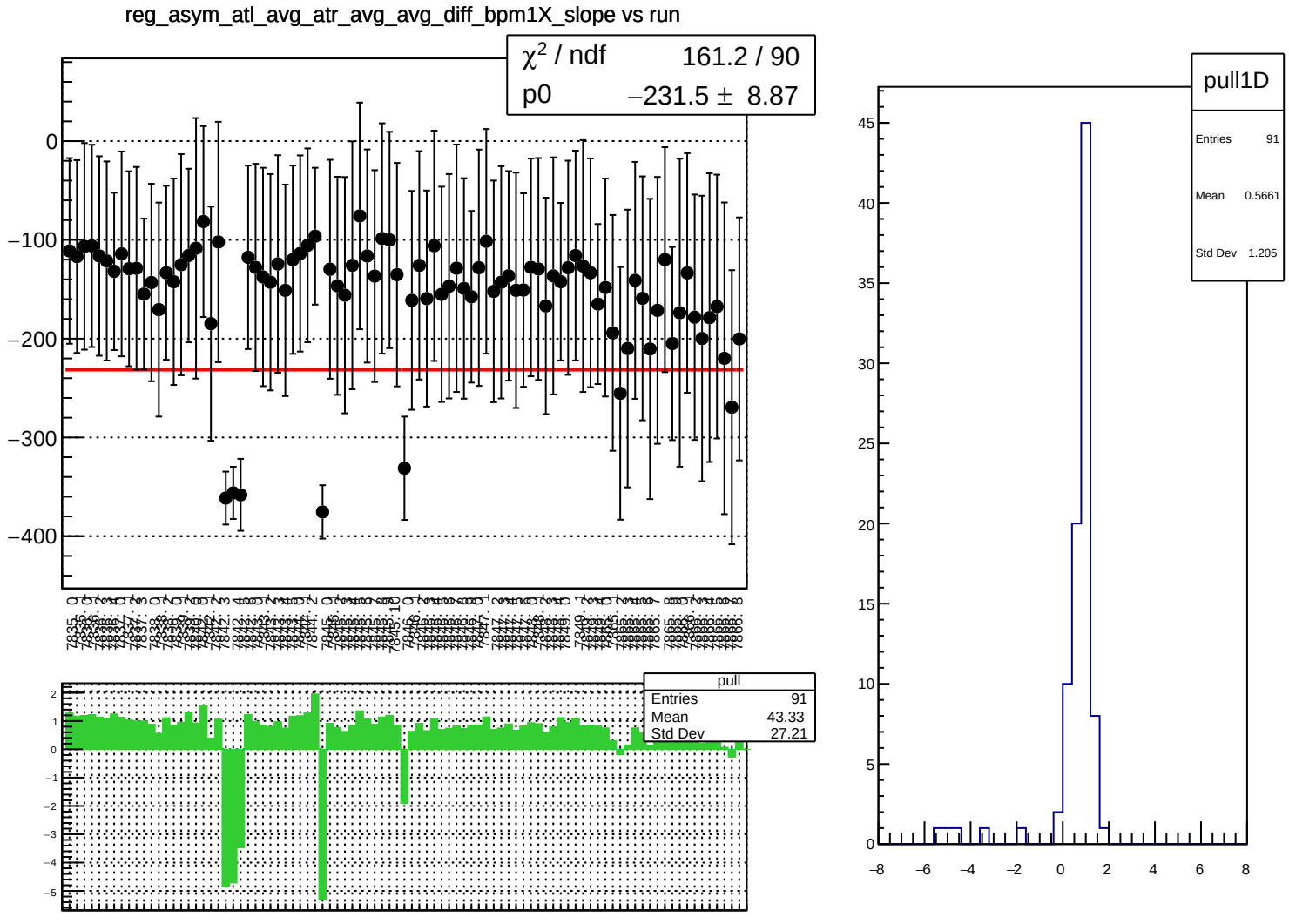

pull1D
Entries 91
Mean −0.02547
Std Dev 0.636

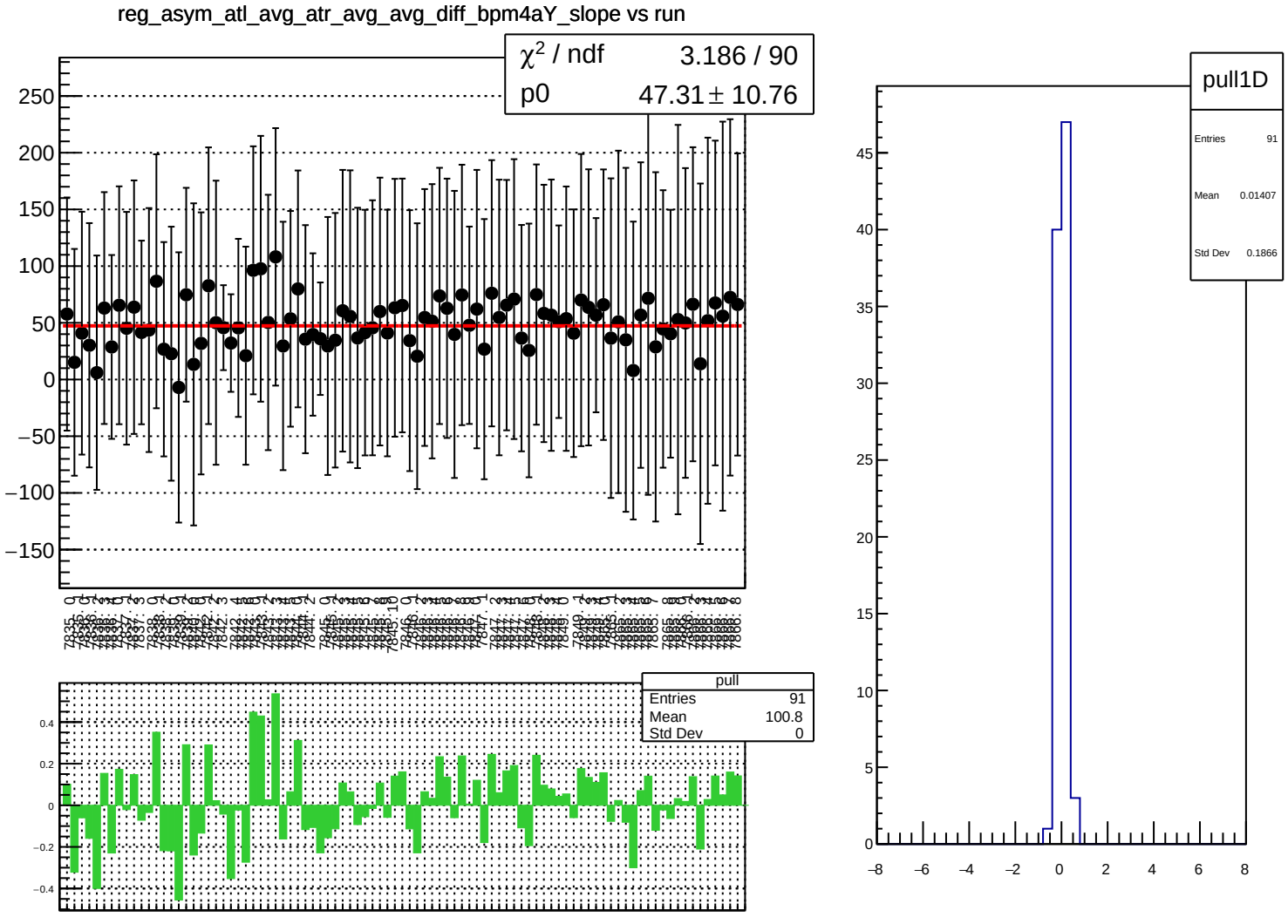

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.81 / 90
p0 51.59 ± 2.278
pull
Entries 91
Mean 53.94
Std Dev 30.03
pull1D
Entries 91
Mean −0.2491
Std Dev 0.8397

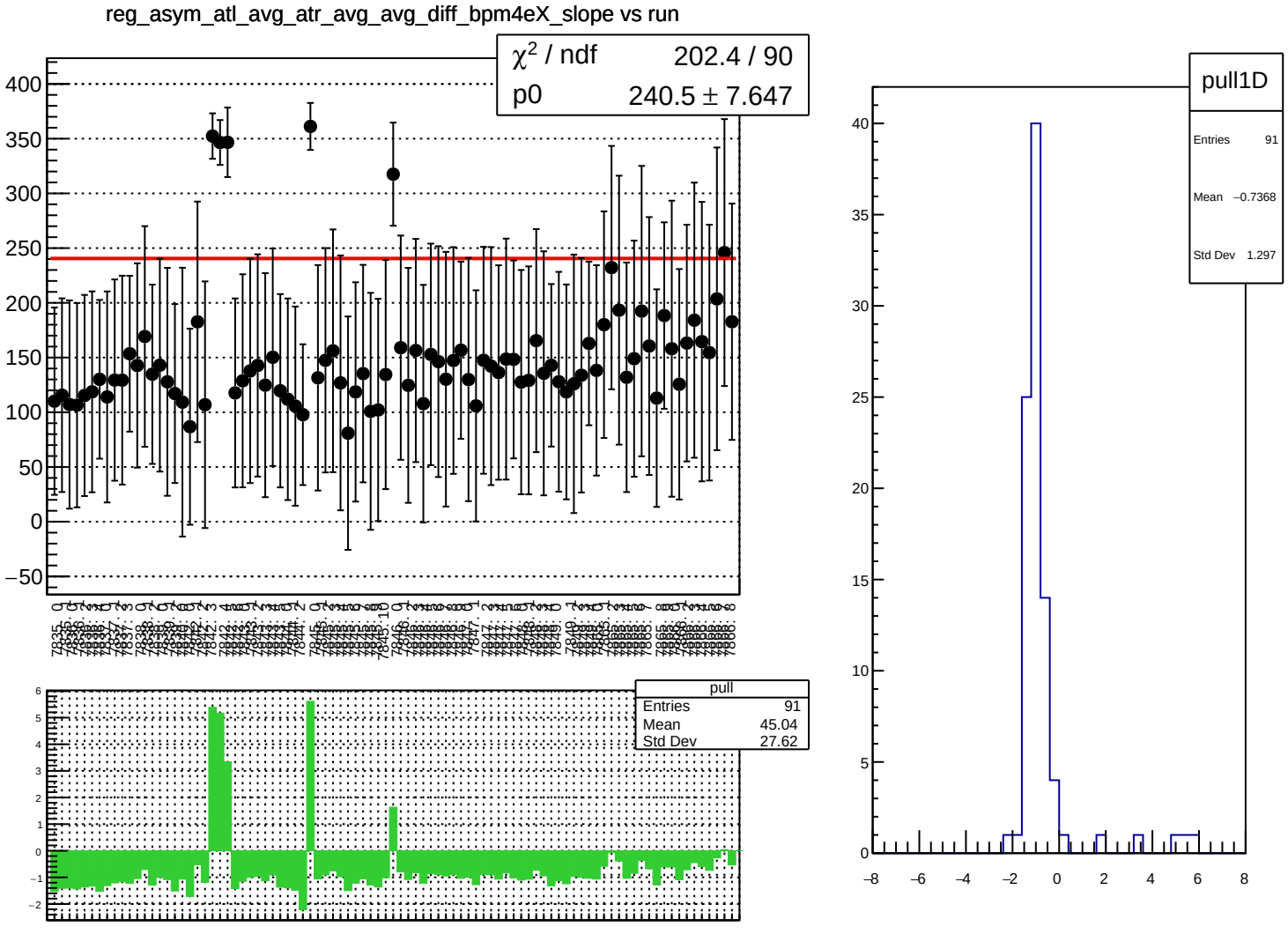

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.03 / 90
p0 −10.64 ± 3.511
100
50
0
−50
−100
pull
Entries 91
Mean −25.96
Std Dev 0
1.5
1
0.5
0
−0.5
−1

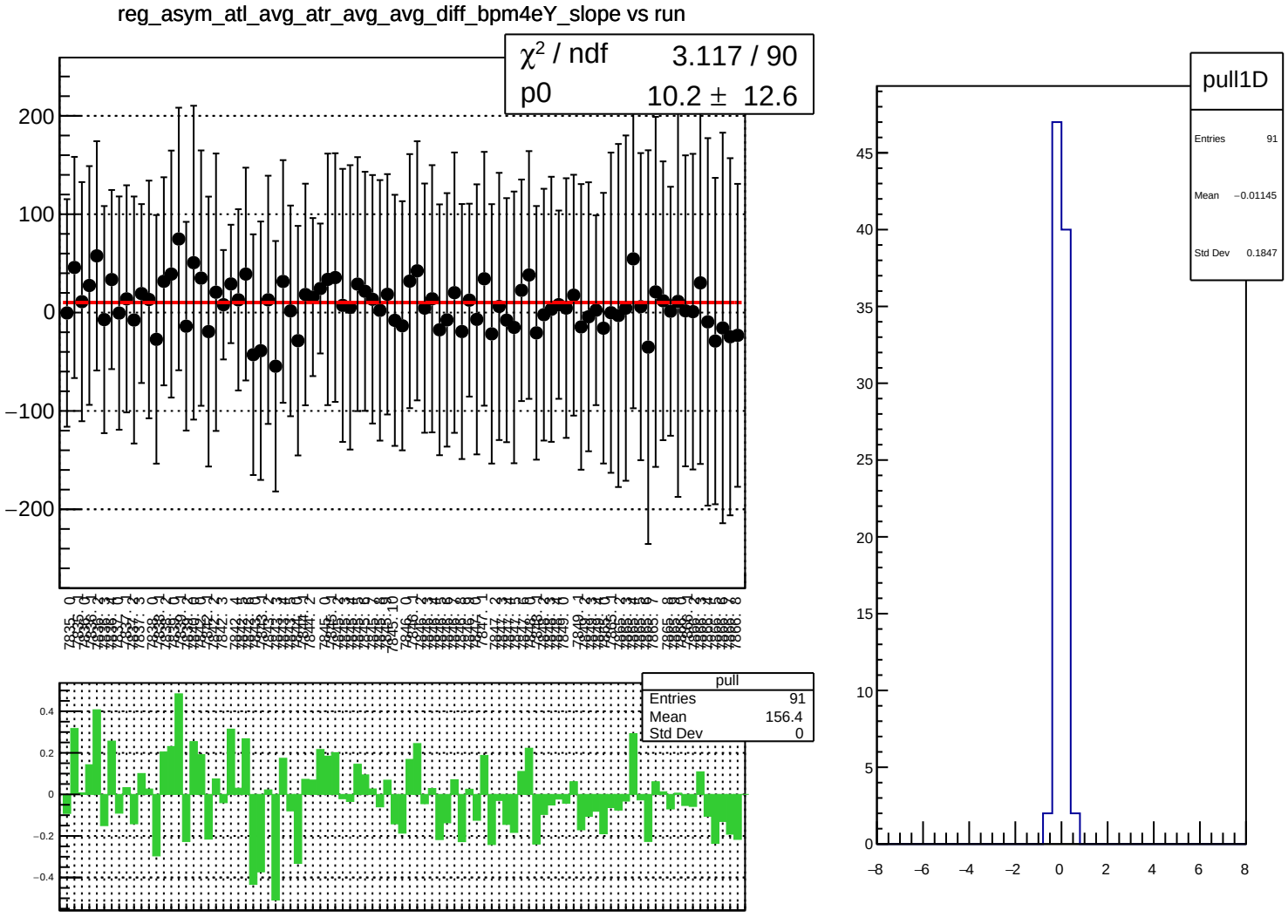

pull1D
Entries 91
Mean 0.01262
Std Dev 0.6463
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

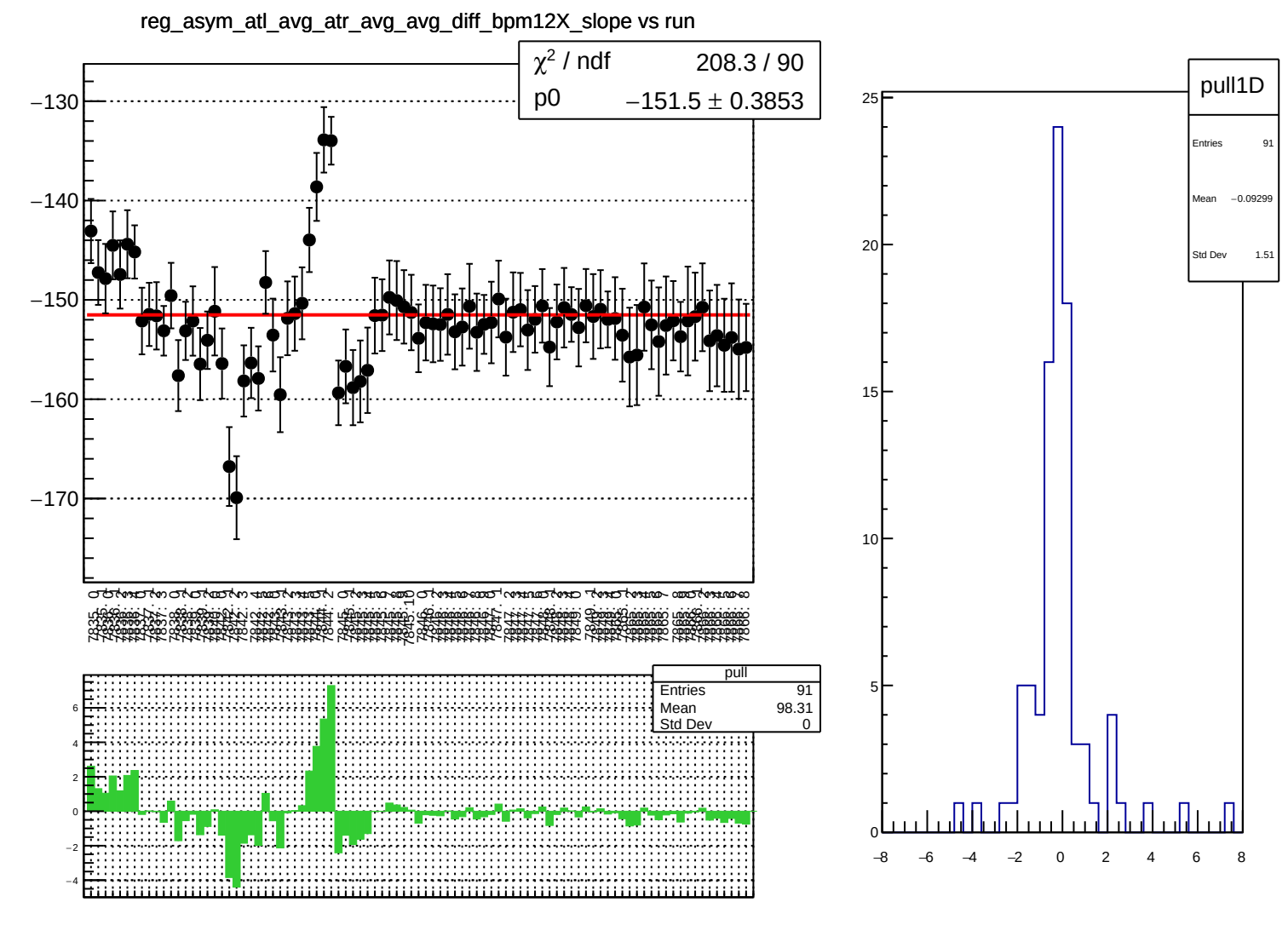

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 109.6 / 90
p0 4.116 ± 0.1048
pull
Entries 91
Mean 516.8
Std Dev 0
pull1D
Entries 91
Mean 0.03711
Std Dev 1.097

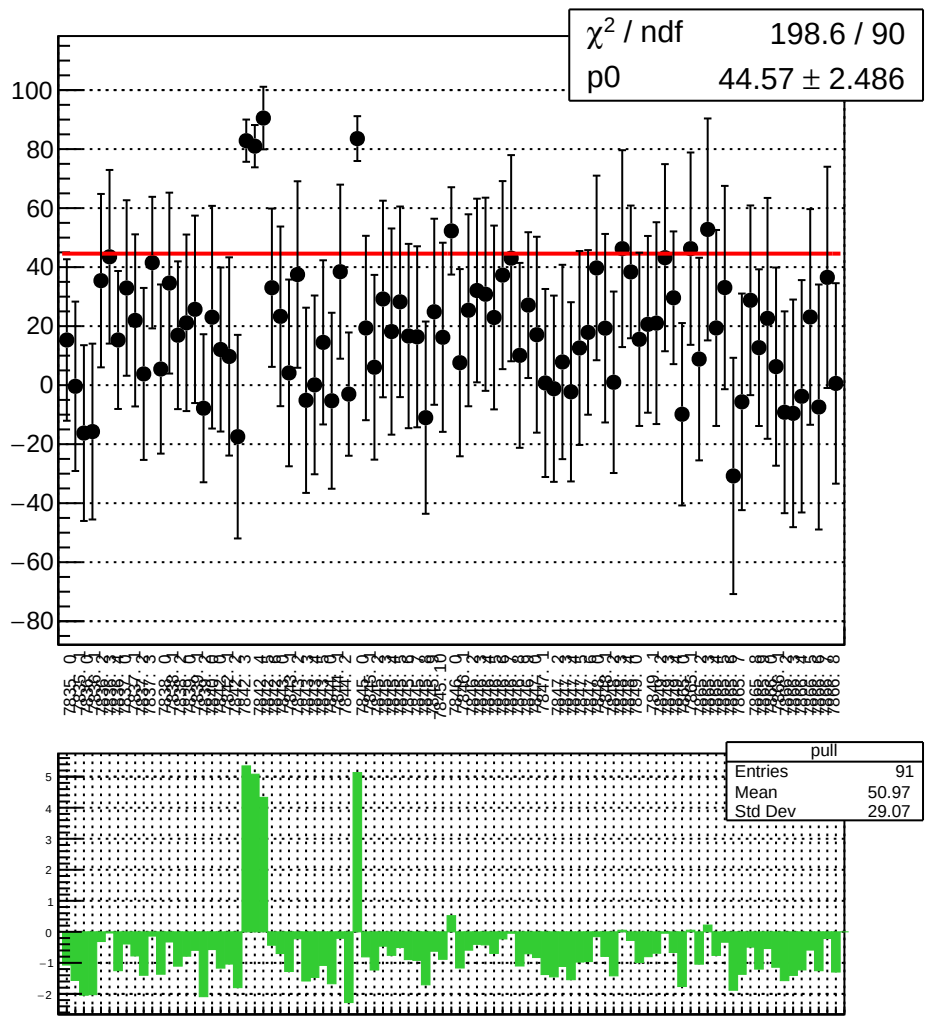

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 161.2 / 90
p0 −231.5 ± 8.87
pull
Entries 91
Mean 43.33
Std Dev 27.21
pull1D
Entries 91
Mean 0.5661
Std Dev 1.205

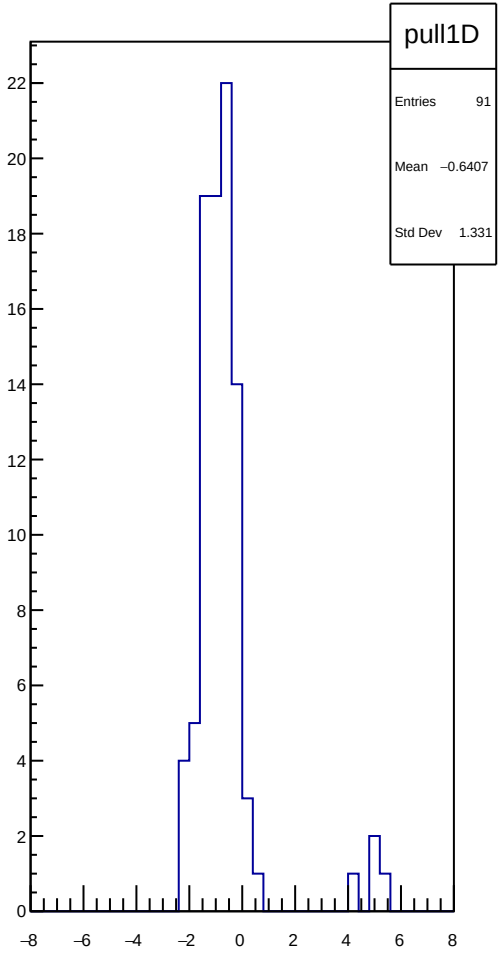

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.186 / 90
p0 47.31 ± 10.76
pull
Entries 91
Mean 100.8
Std Dev 0
pull1D
Entries 91
Mean 0.01407
Std Dev 0.1866

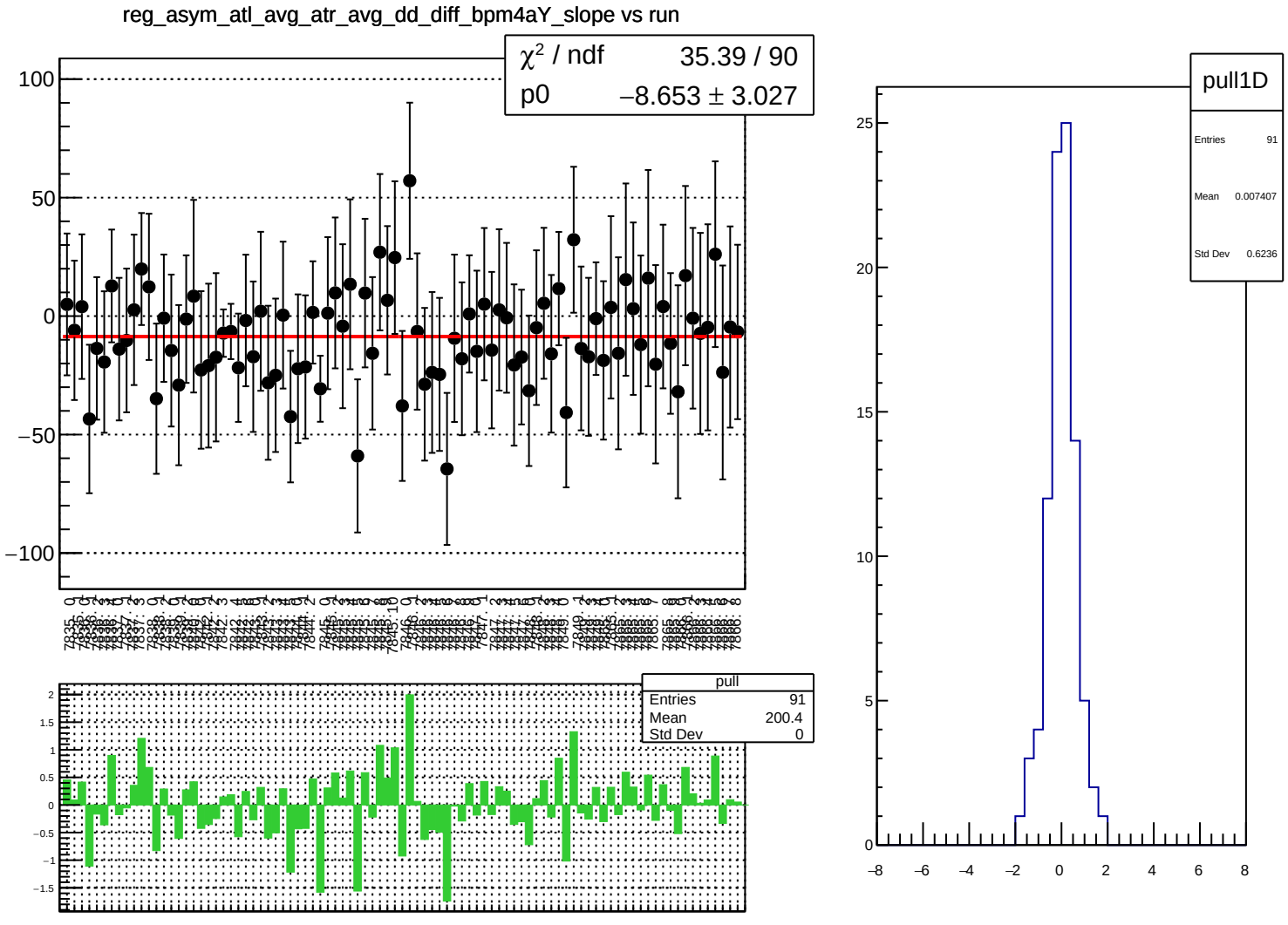

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 202.4 / 90
p0 240.5 ± 7.647
pull
Entries 91
Mean 45.04
Std Dev 27.62
pull1D
Entries 91
Mean −0.7368
Std Dev 1.297

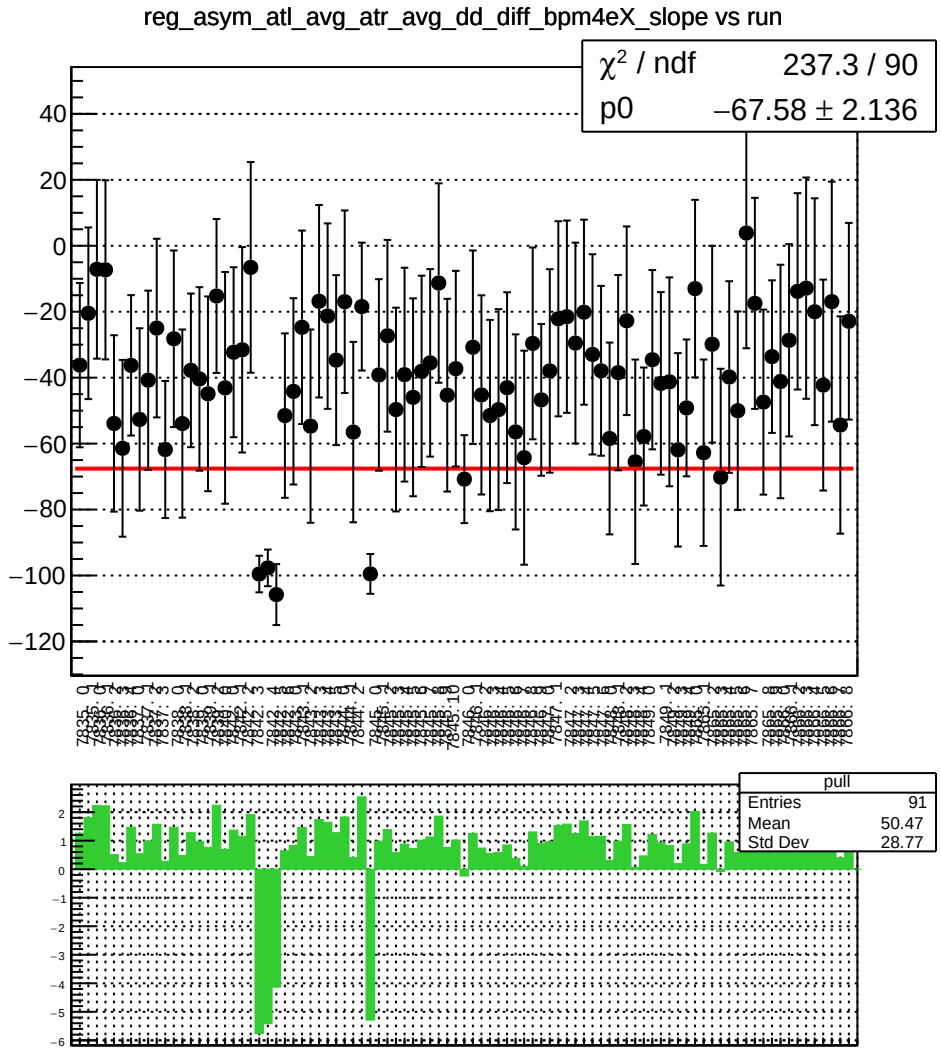

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.117 / 90
p0 10.2 ± 12.6
pull
Entries 91
Mean 156.4
Std Dev 0
pull1D
Entries 91
Mean −0.01145
Std Dev 0.1847

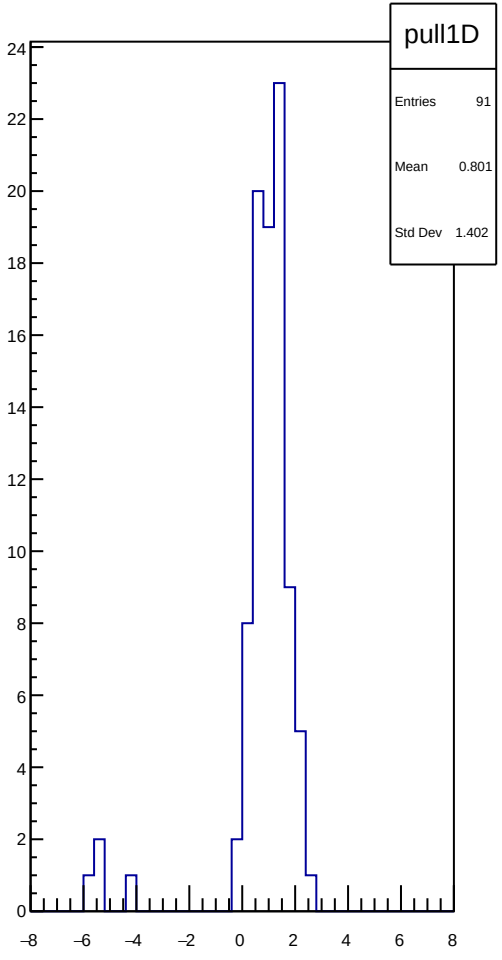

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 208.3 / 90
p0 −151.5 ± 0.3853
−130
−140
−150
−160
−170
pull
Entries 91
Mean 98.31
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 91
Mean −0.09299
Std Dev 1.51
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

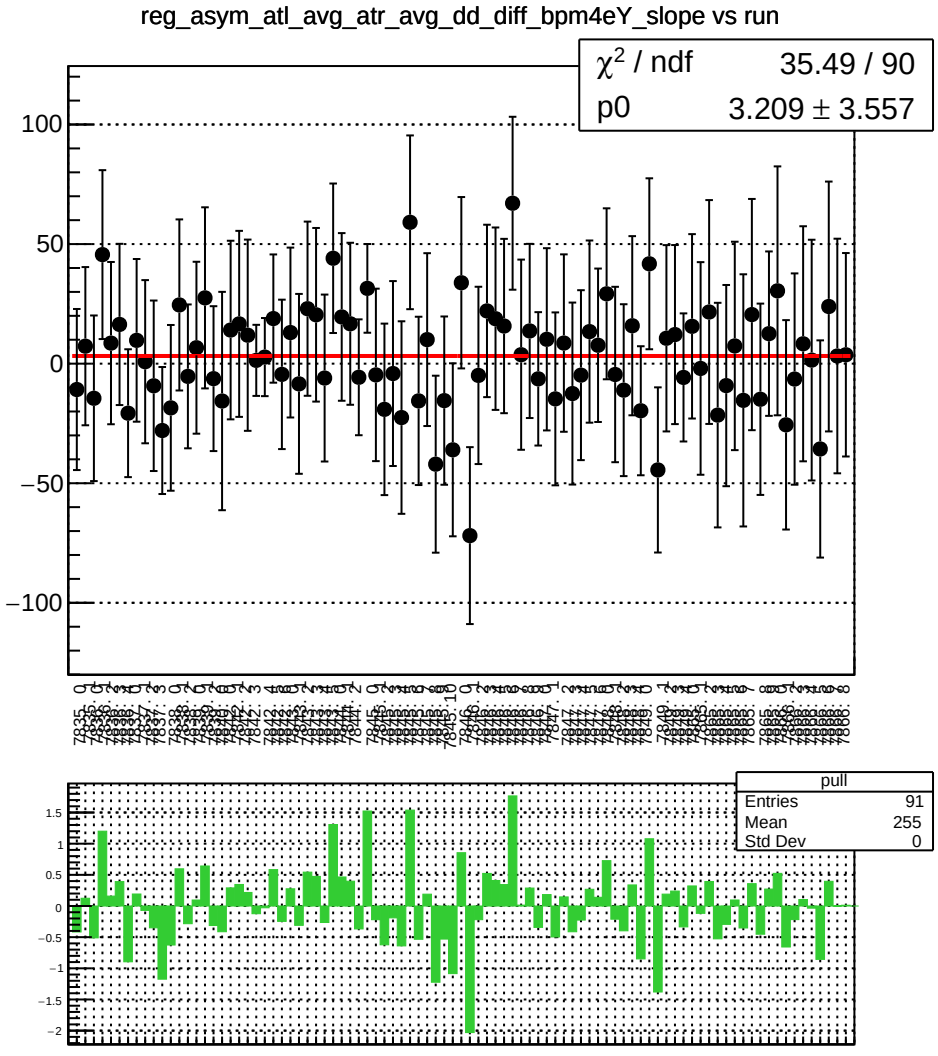

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 198.6 / 90
p0 44.57 ± 2.486
pull
Entries 91
Mean 50.97
Std Dev 29.07

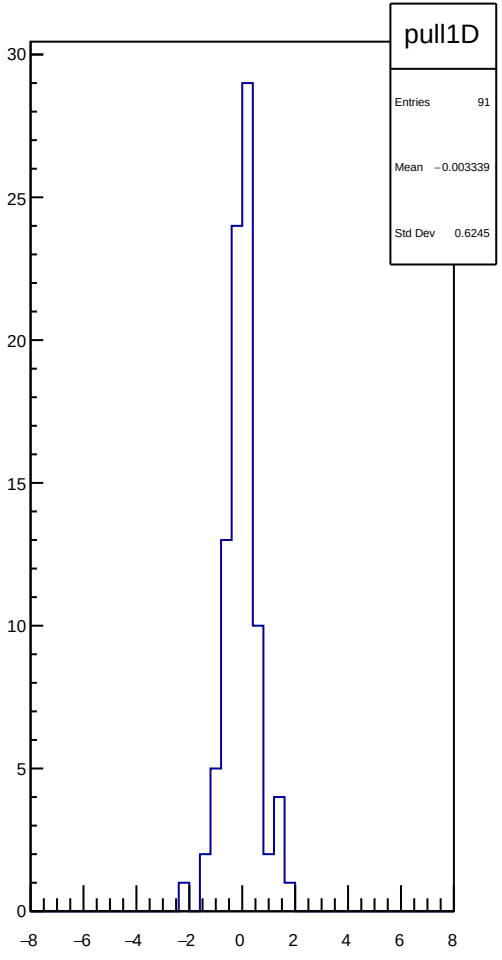

pull1D
Entries 91
Mean −0.6407
Std Dev 1.331

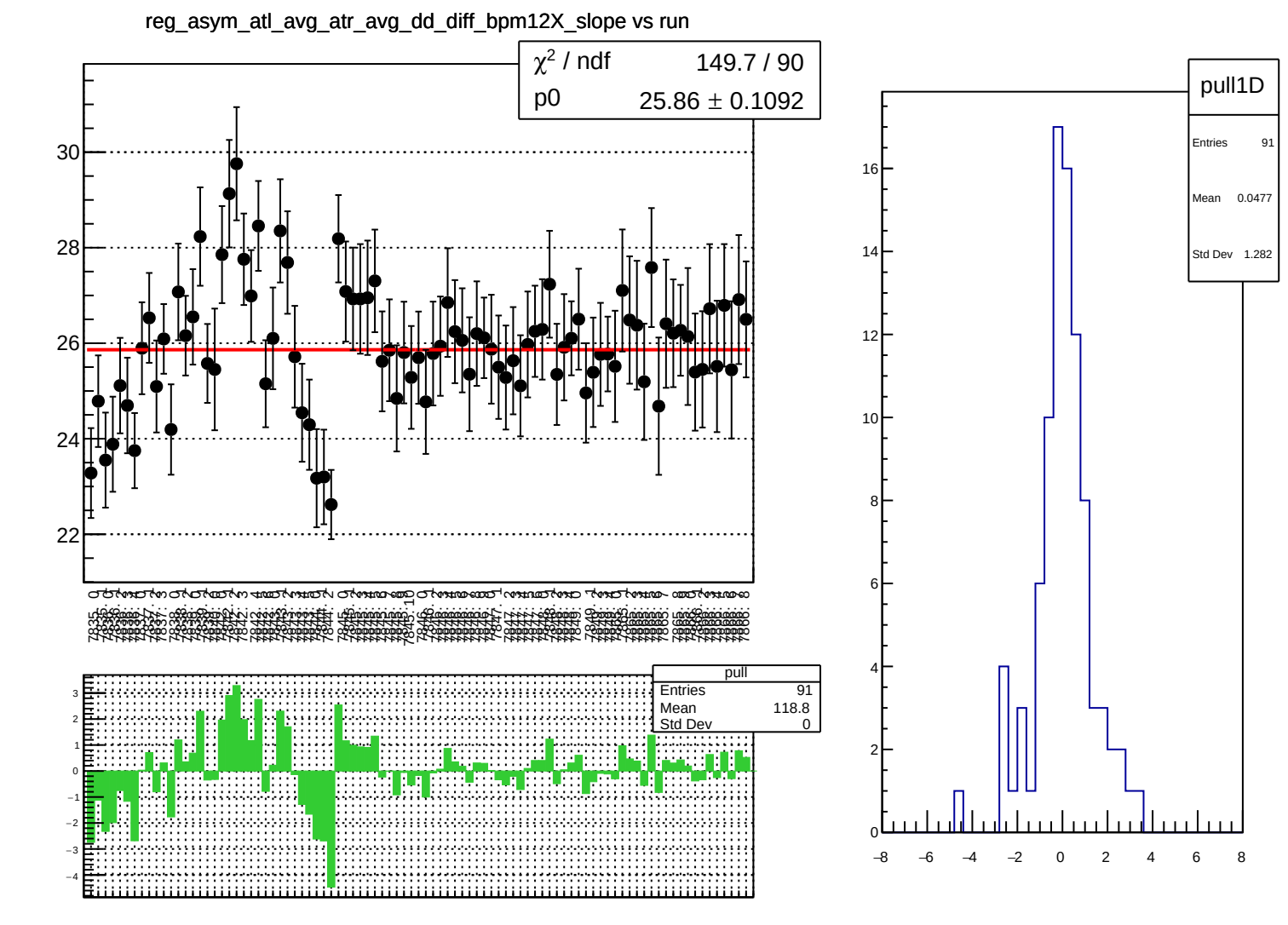

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.39 / 90
p0 −8.653 ± 3.027
pull
Entries 91
Mean 200.4
Std Dev 0
pull1D
Entries 91
Mean 0.007407
Std Dev 0.6236

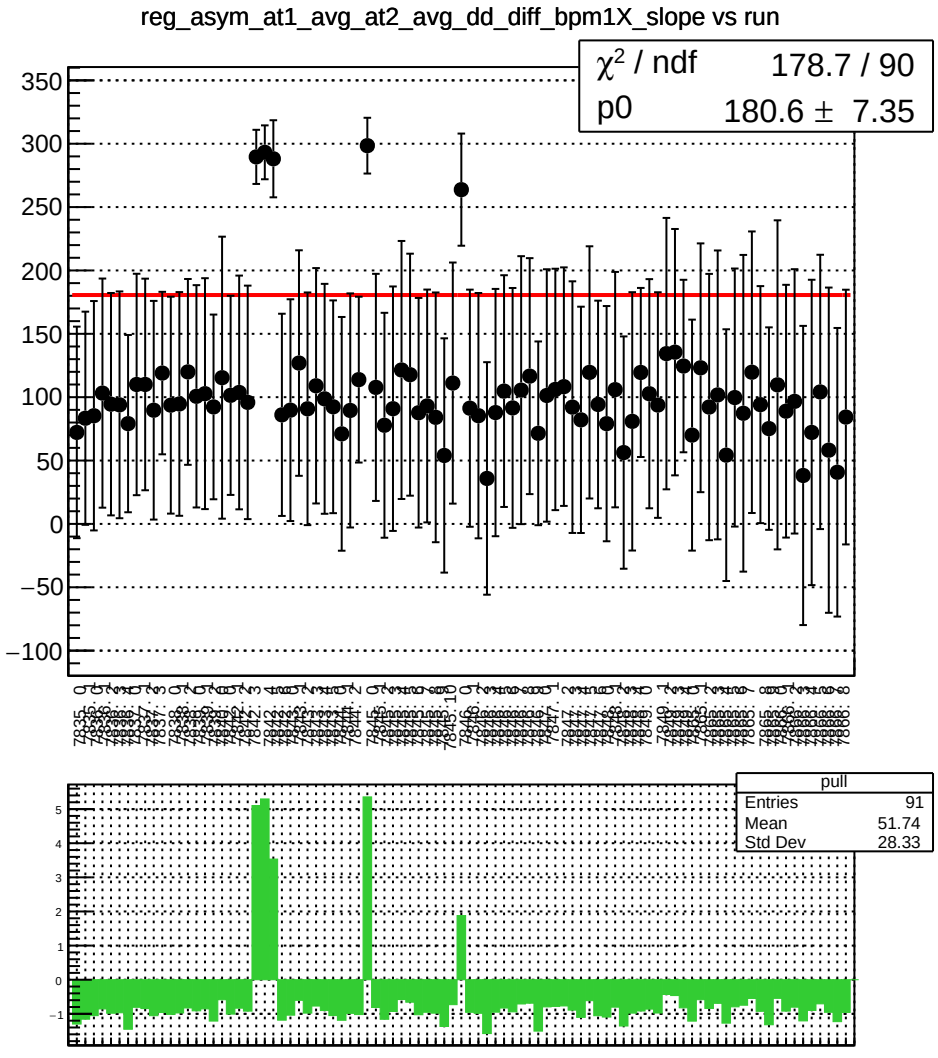

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 237.3 / 90
p0 −67.58 ± 2.136
pull
Entries 91
Mean 50.47
Std Dev 28.77

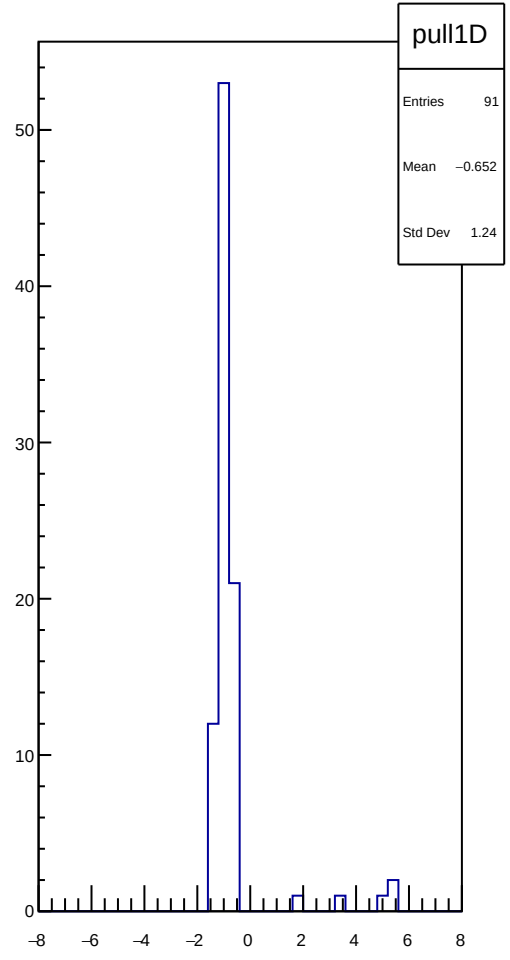

pull1D
Entries 91
Mean 0.801
Std Dev 1.402

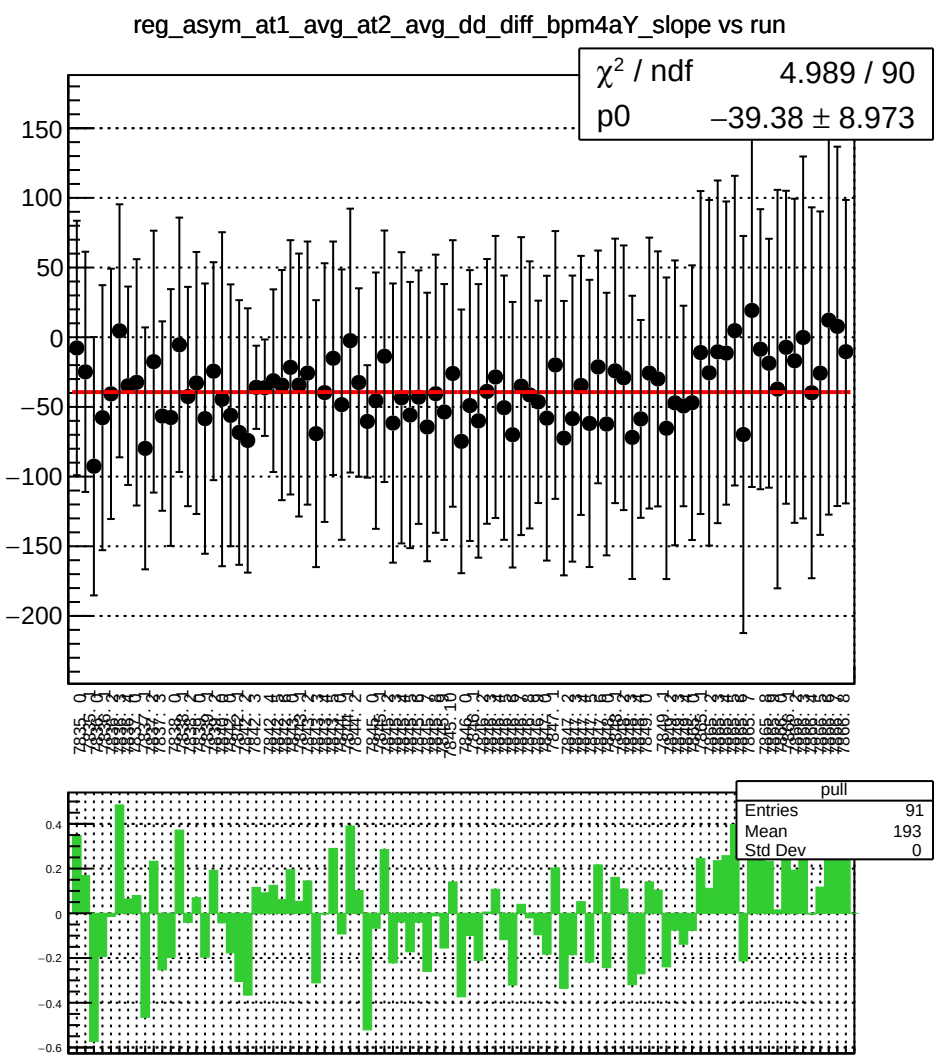

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.49 / 90
p0 3.209 ± 3.557
pull
Entries 91
Mean 255
Std Dev 0

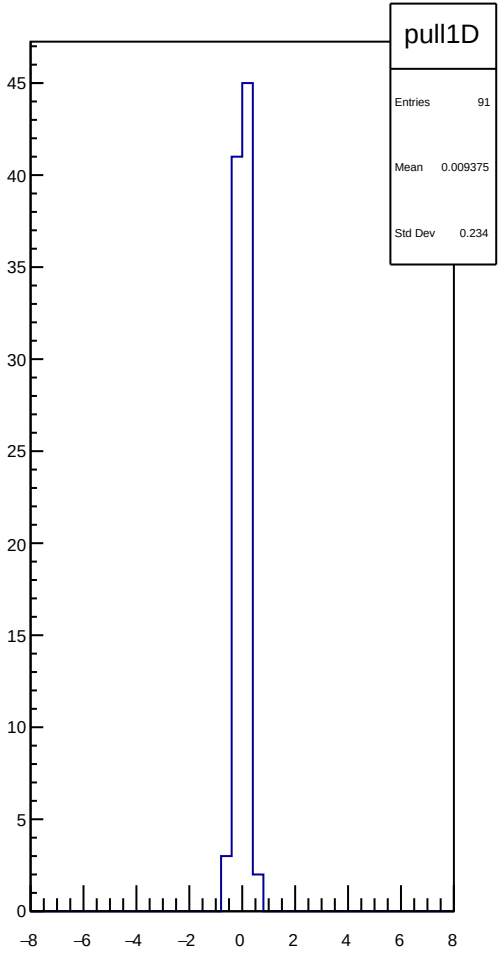

pull1D
Entries 91
Mean −0.003339
Std Dev 0.6245

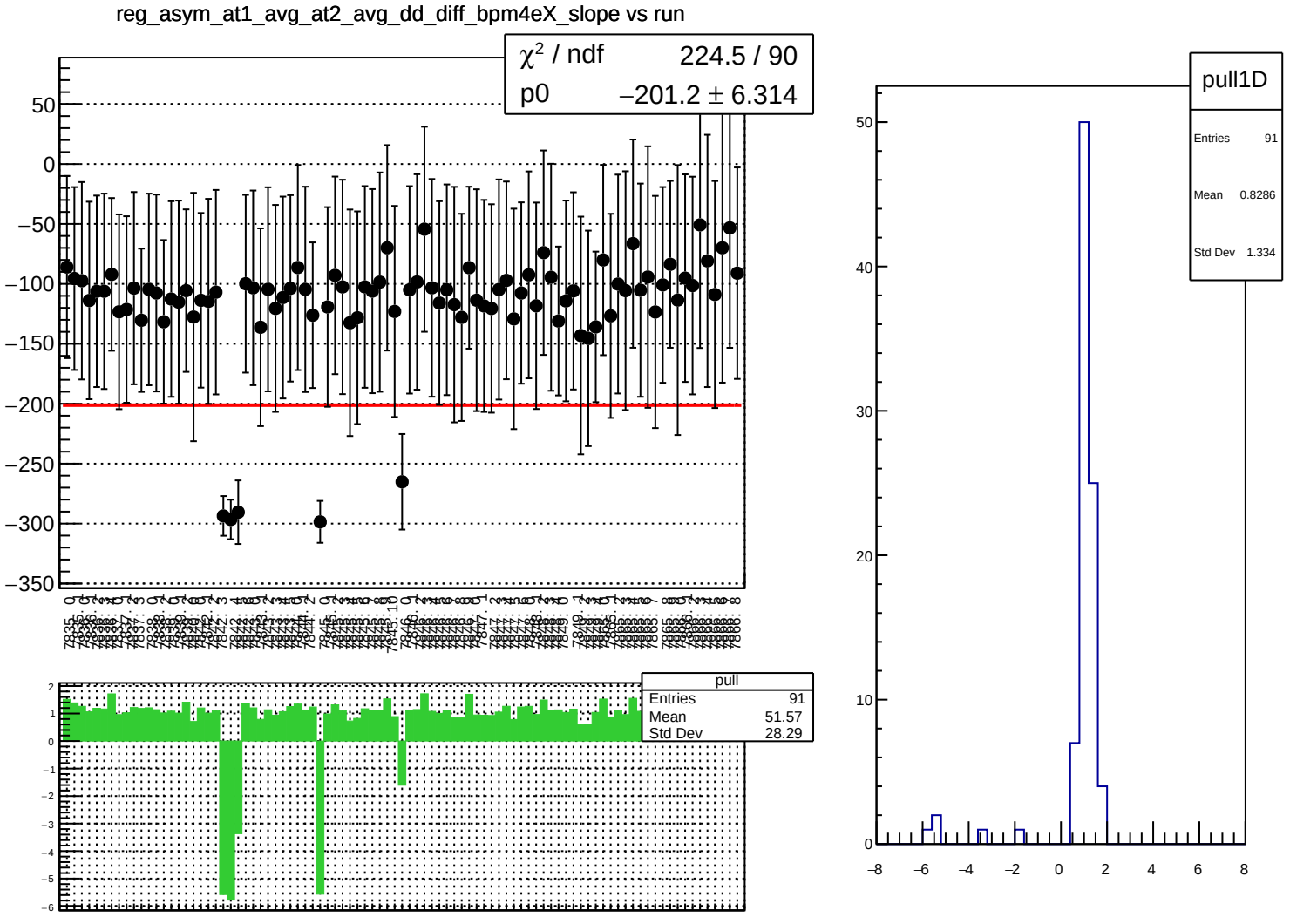

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 149.7 / 90
p0 25.86 ± 0.1092
pull
Entries 91
Mean 118.8
Std Dev 0
pull1D
Entries 91
Mean 0.0477
Std Dev 1.282

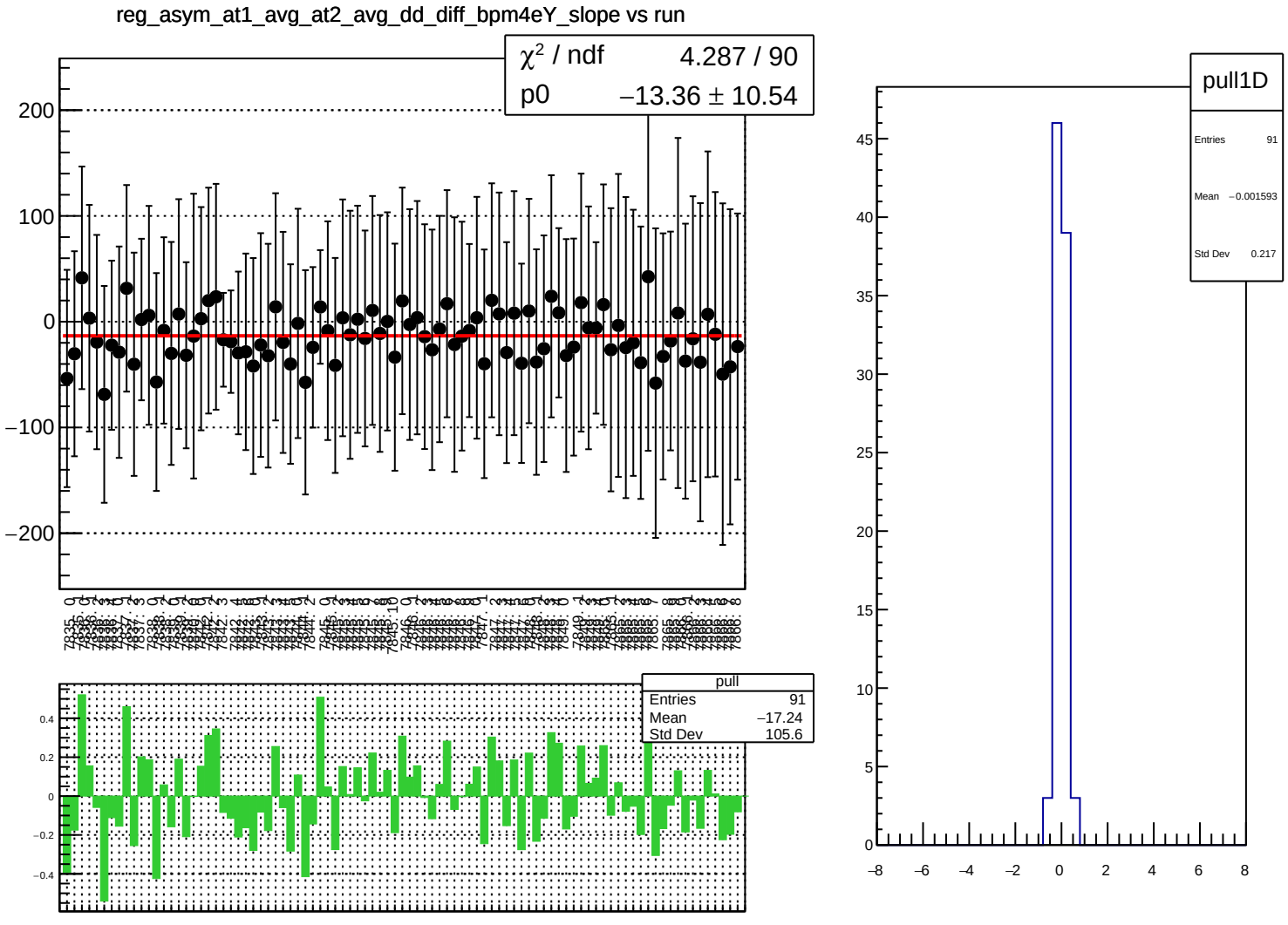

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 178.7 / 90
p0 180.6 ± 7.35
pull
Entries 91
Mean 51.74
Std Dev 28.33

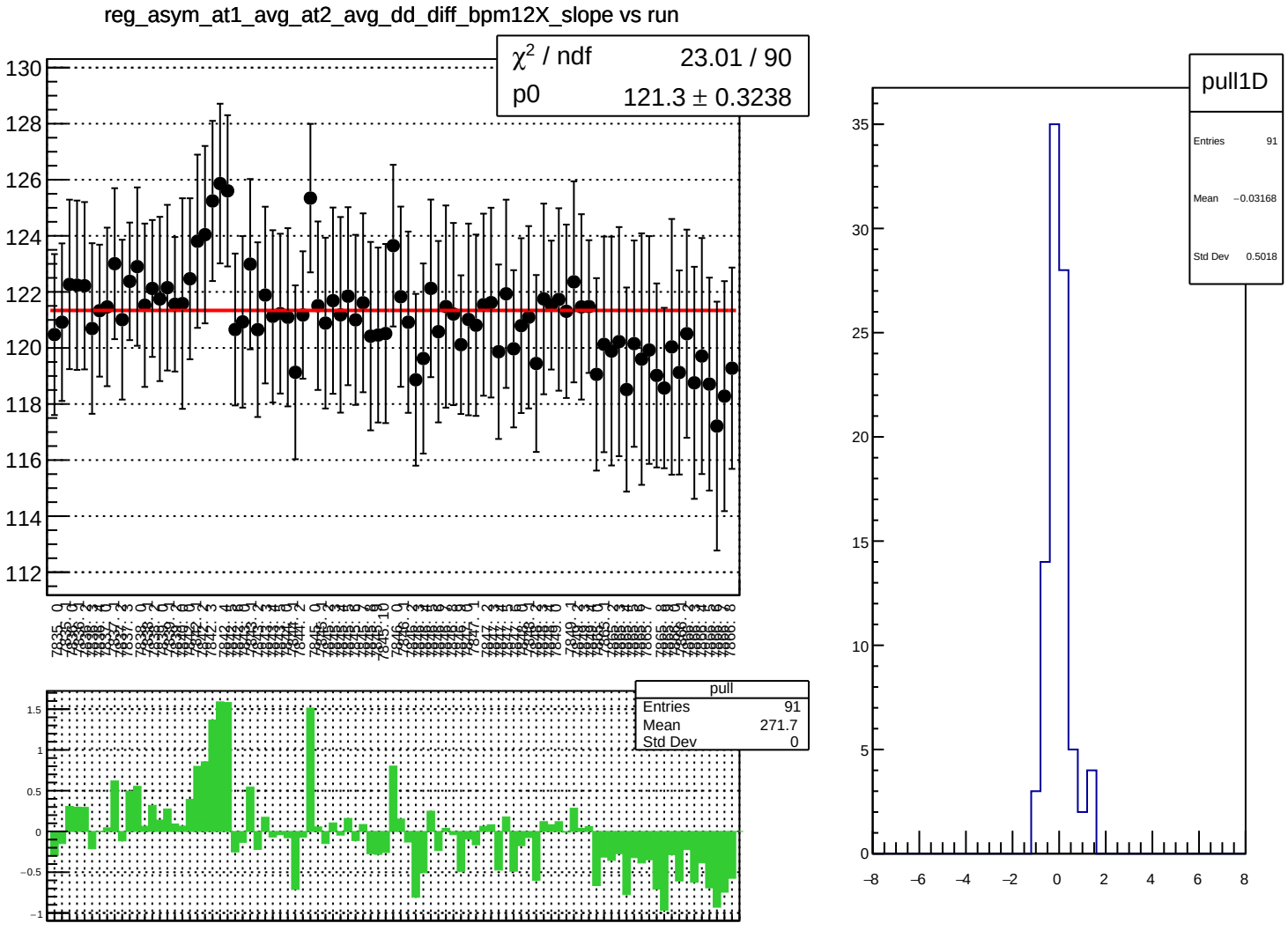

pull1D
Entries 91
Mean −0.652
Std Dev 1.24

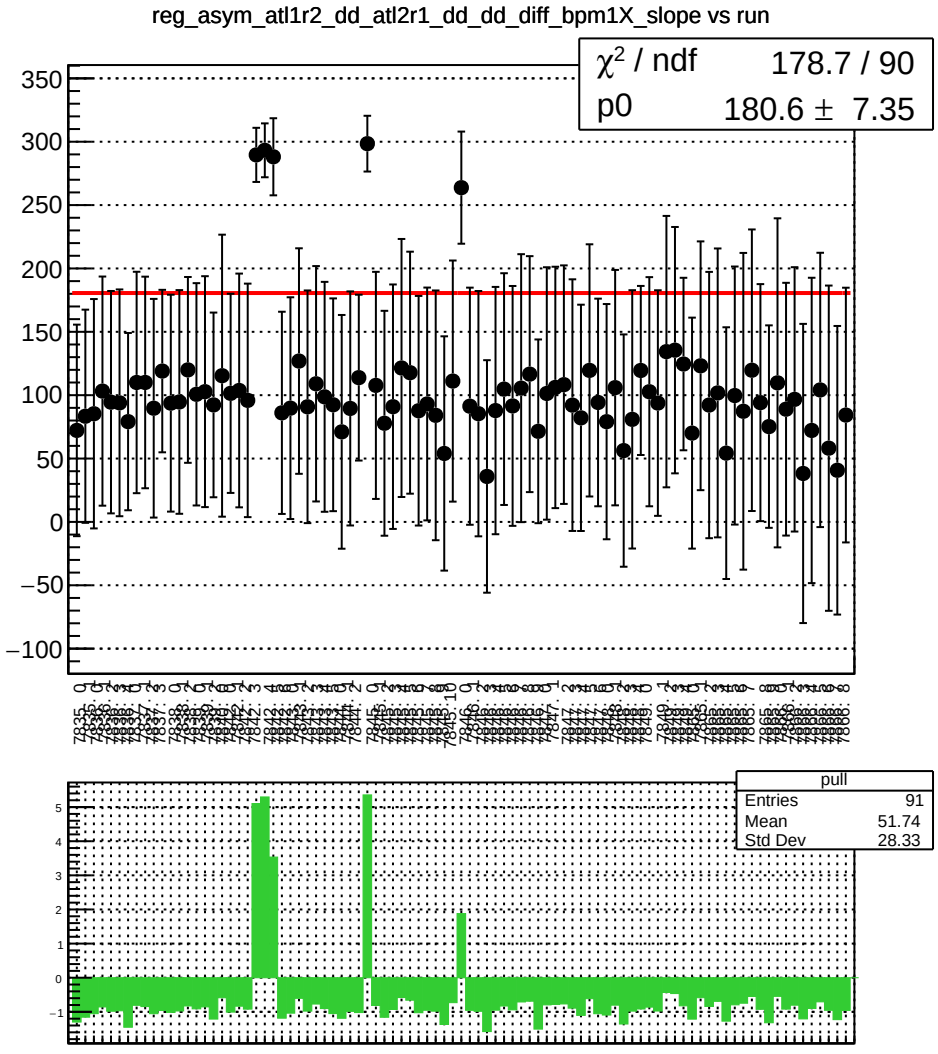

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.989 / 90
p0 −39.38 ± 8.973
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 193
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

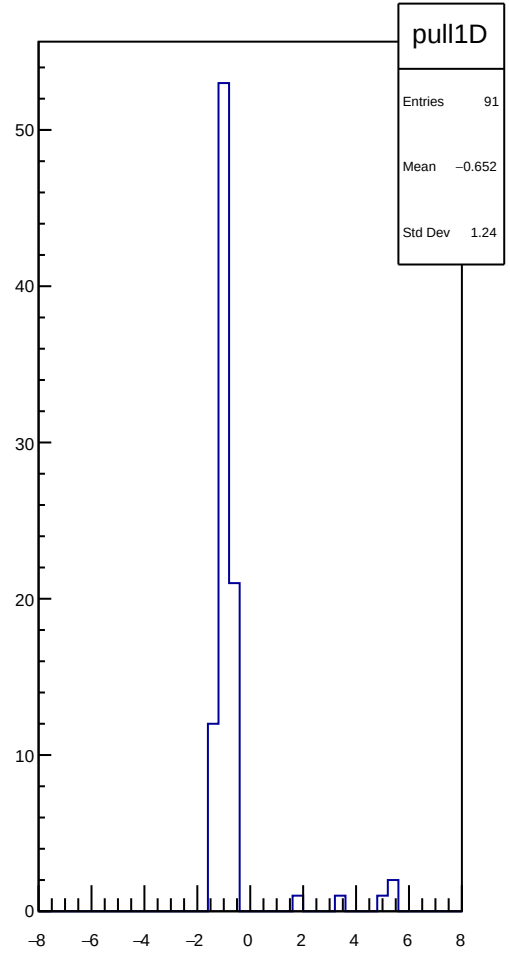

pull1D
Entries 91
Mean 0.009375
Std Dev 0.234
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

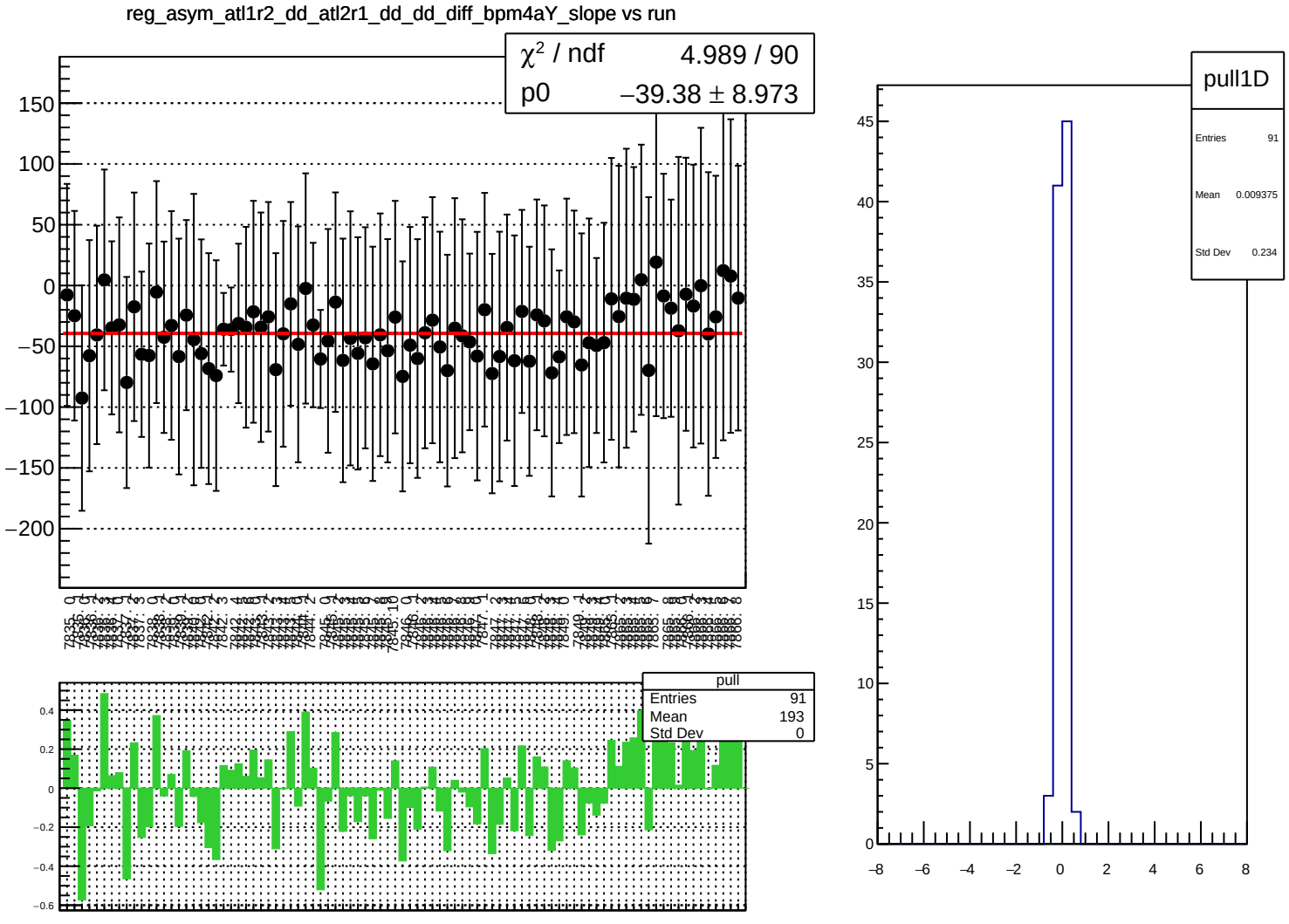

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 224.5 / 90
p0 −201.2 ± 6.314
pull
Entries 91
Mean 51.57
Std Dev 28.29
pull1D
Entries 91
Mean 0.8286
Std Dev 1.334

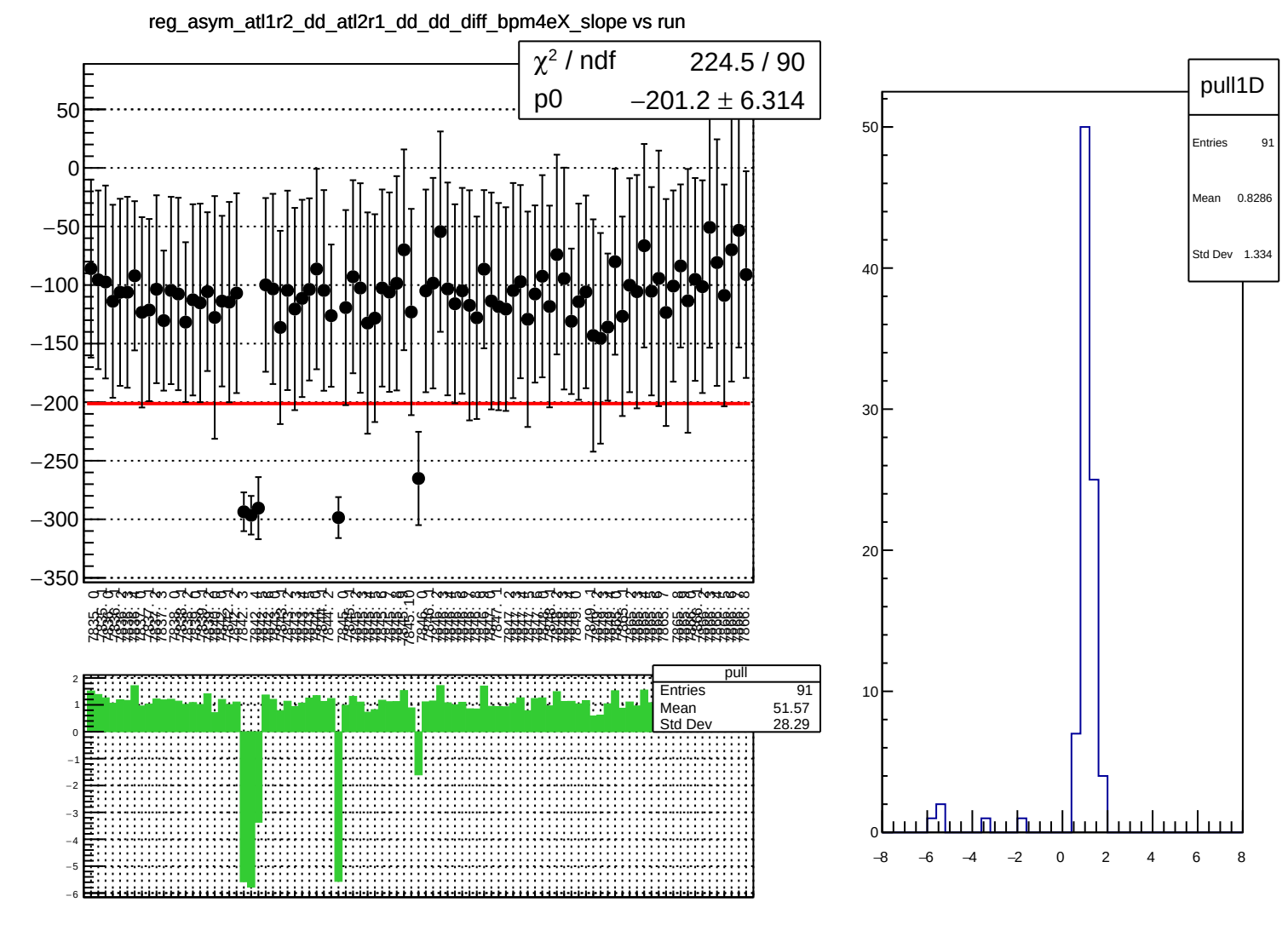

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.287 / 90
p0 −13.36 ± 10.54
200
100
0
−100
−200
pull
Entries 91
Mean −17.24
Std Dev 105.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean −0.001593
Std Dev 0.217
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

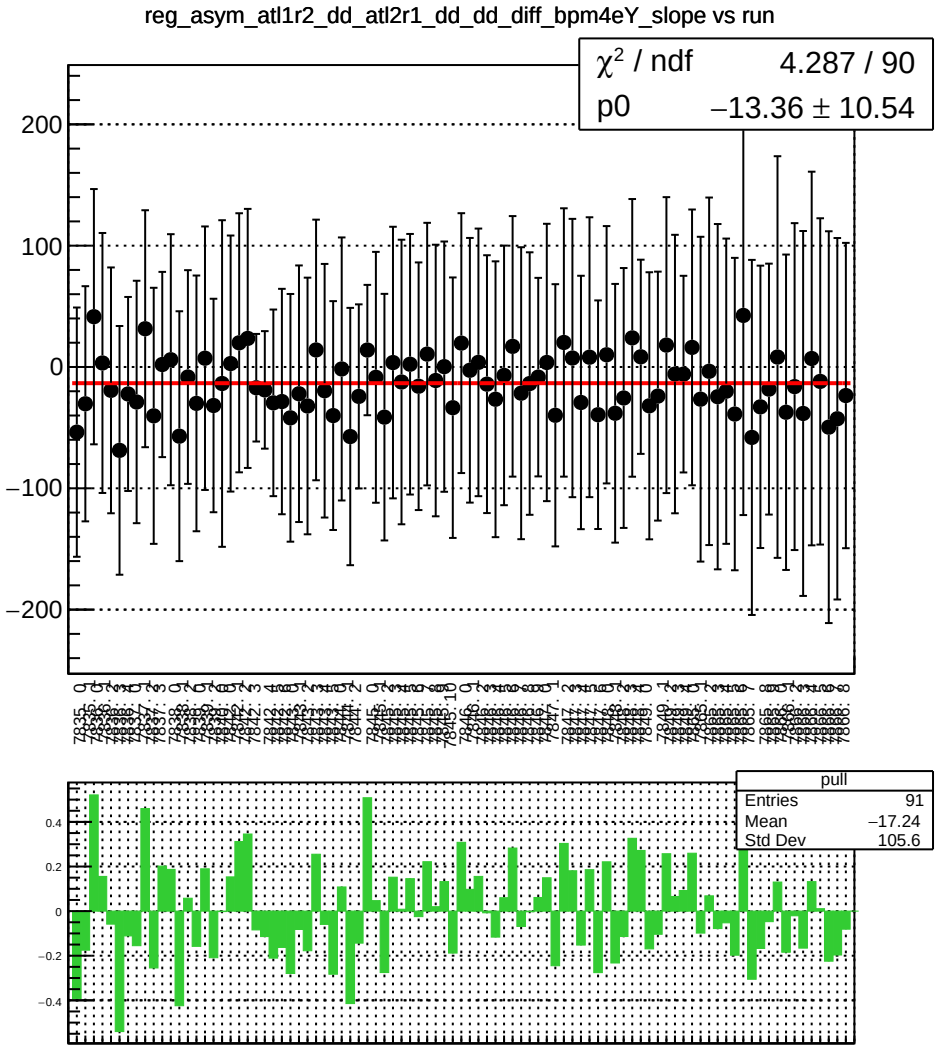

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 23.01 / 90
p0 121.3 ± 0.3238
pull
Entries 91
Mean 271.7
Std Dev 0
pull1D
Entries 91
Mean −0.03168
Std Dev 0.5018

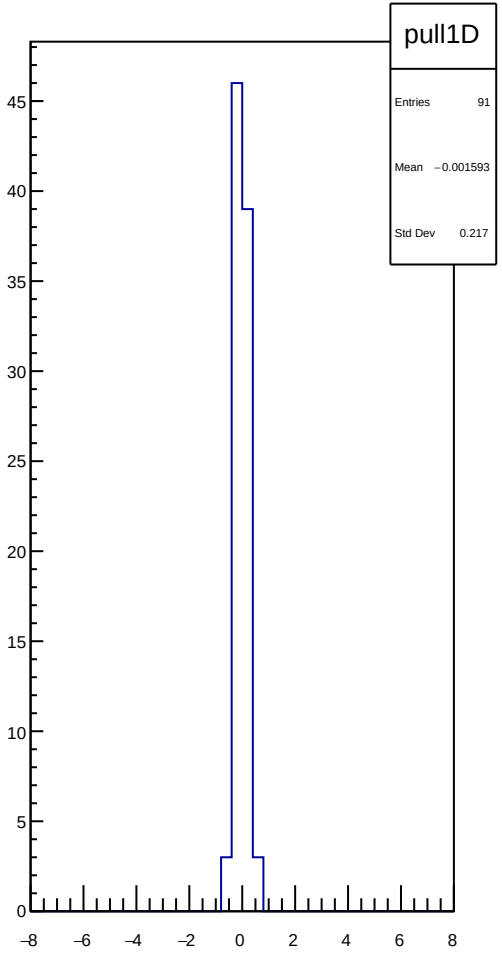

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 178.7 / 90
p0 180.6 ± 7.35
pull
Entries 91
Mean 51.74
Std Dev 28.33

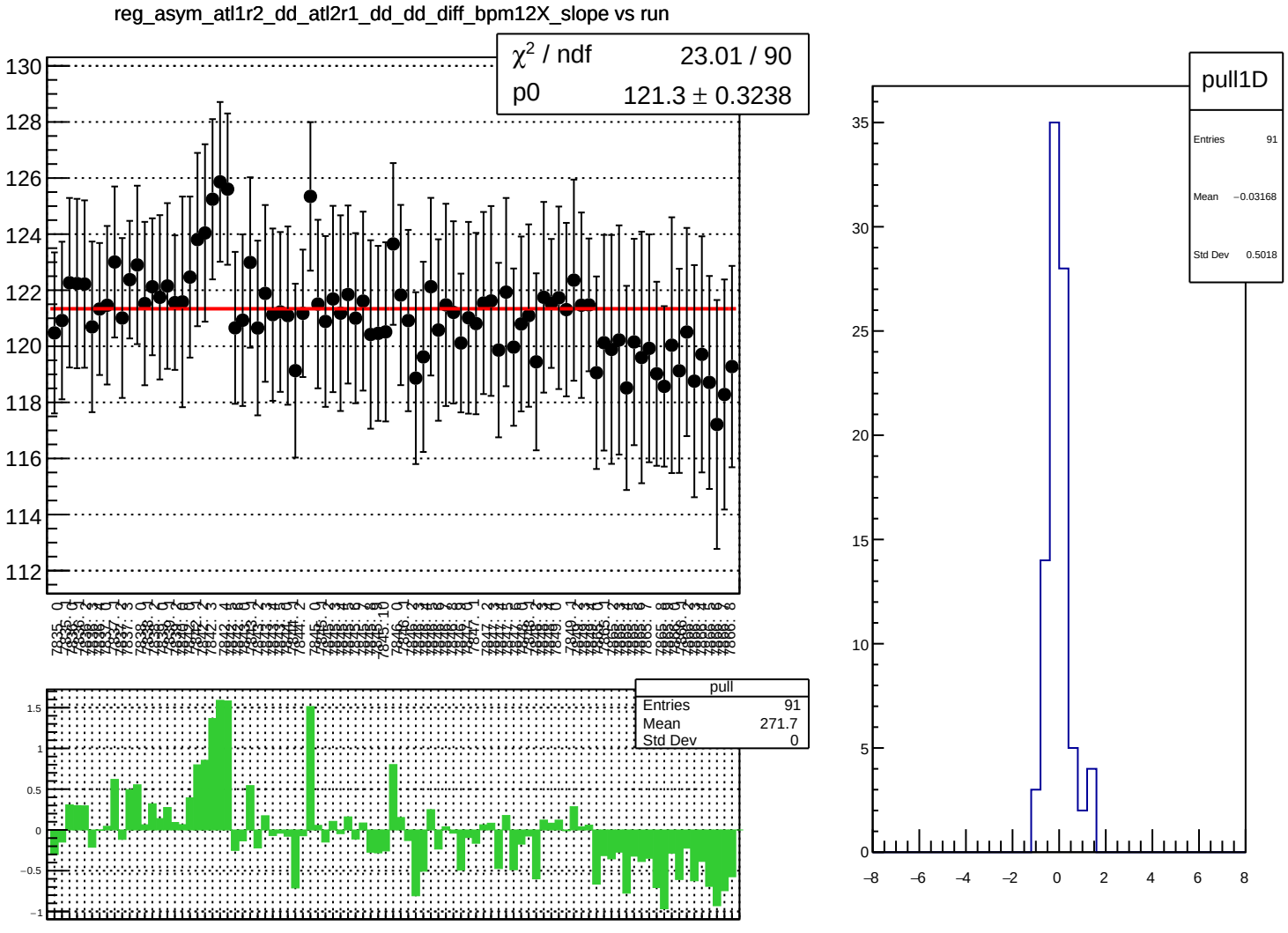

pull1D
Entries 91
Mean −0.652
Std Dev 1.24

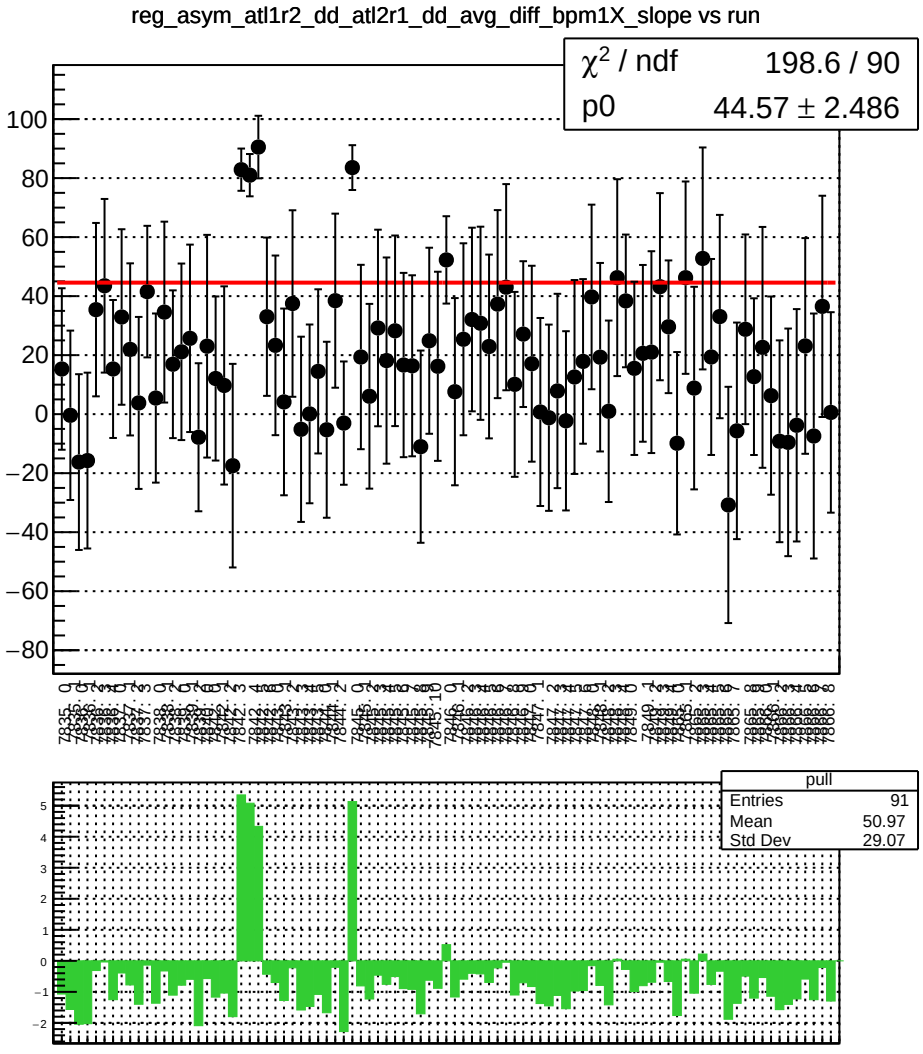

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.989 / 90
p0 −39.38 ± 8.973
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 193
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.009375
Std Dev 0.234
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

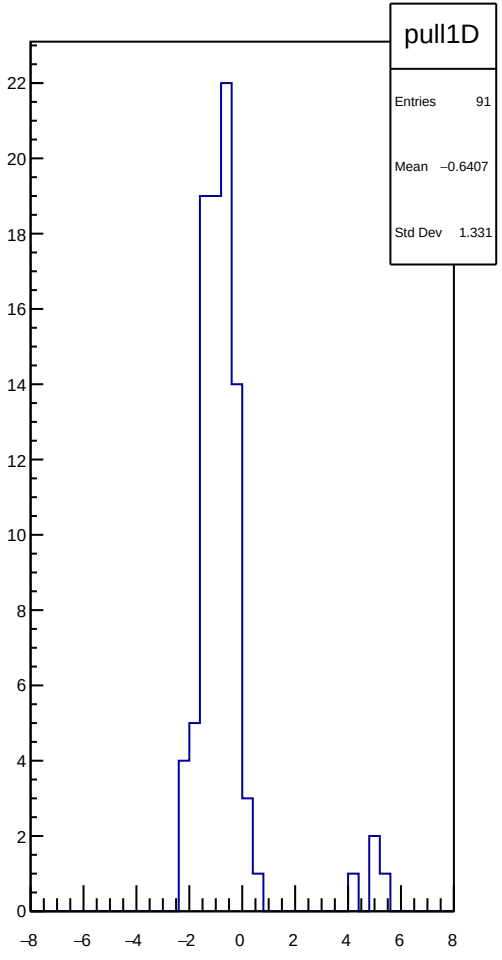

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 224.5 / 90
p0 −201.2 ± 6.314
pull
Entries 91
Mean 51.57
Std Dev 28.29
pull1D
Entries 91
Mean 0.8286
Std Dev 1.334

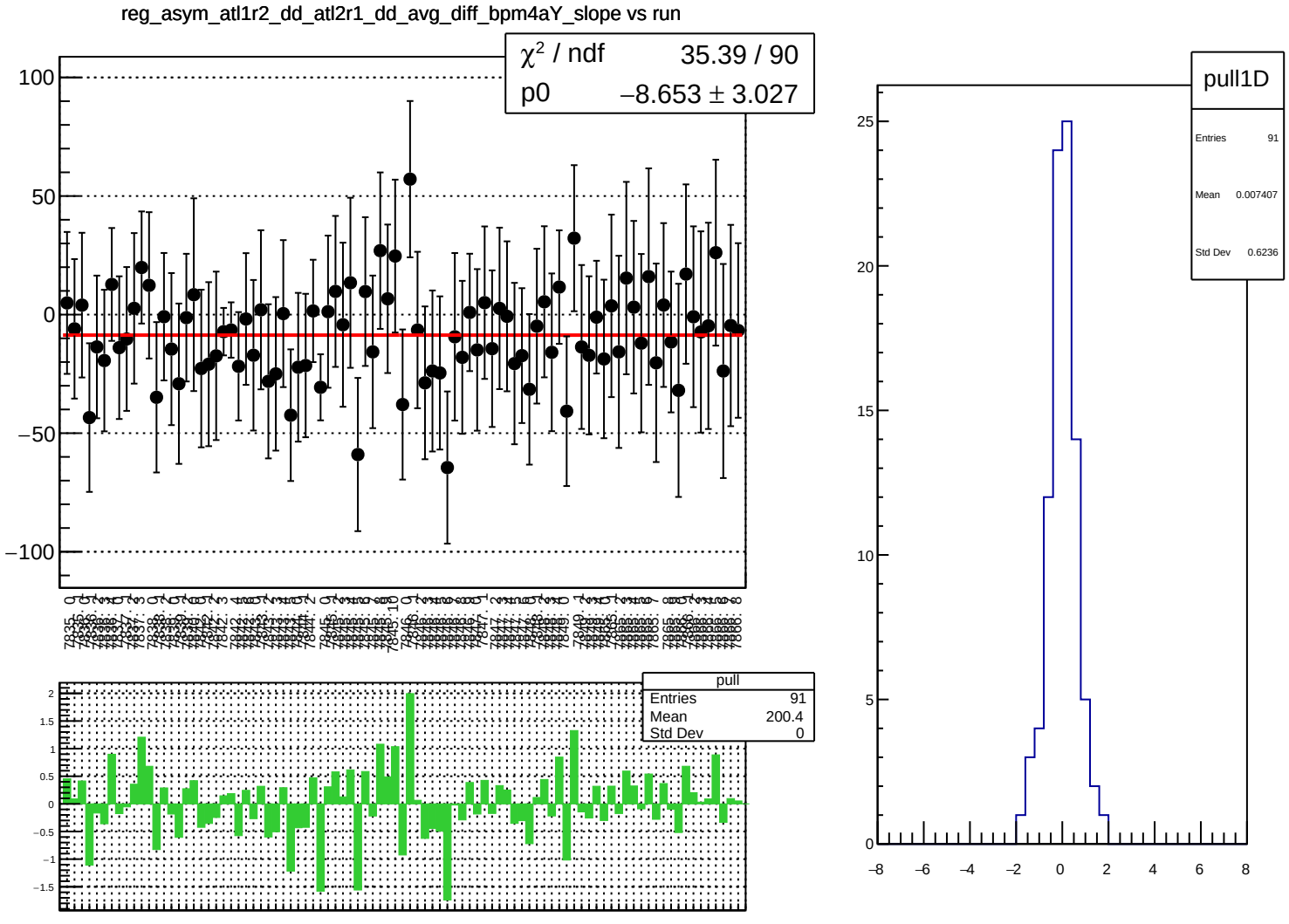

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.287 / 90
p0 −13.36 ± 10.54
200
100
0
−100
−200
pull
Entries 91
Mean −17.24
Std Dev 105.6
0.4
0.2
0
−0.2
−0.4

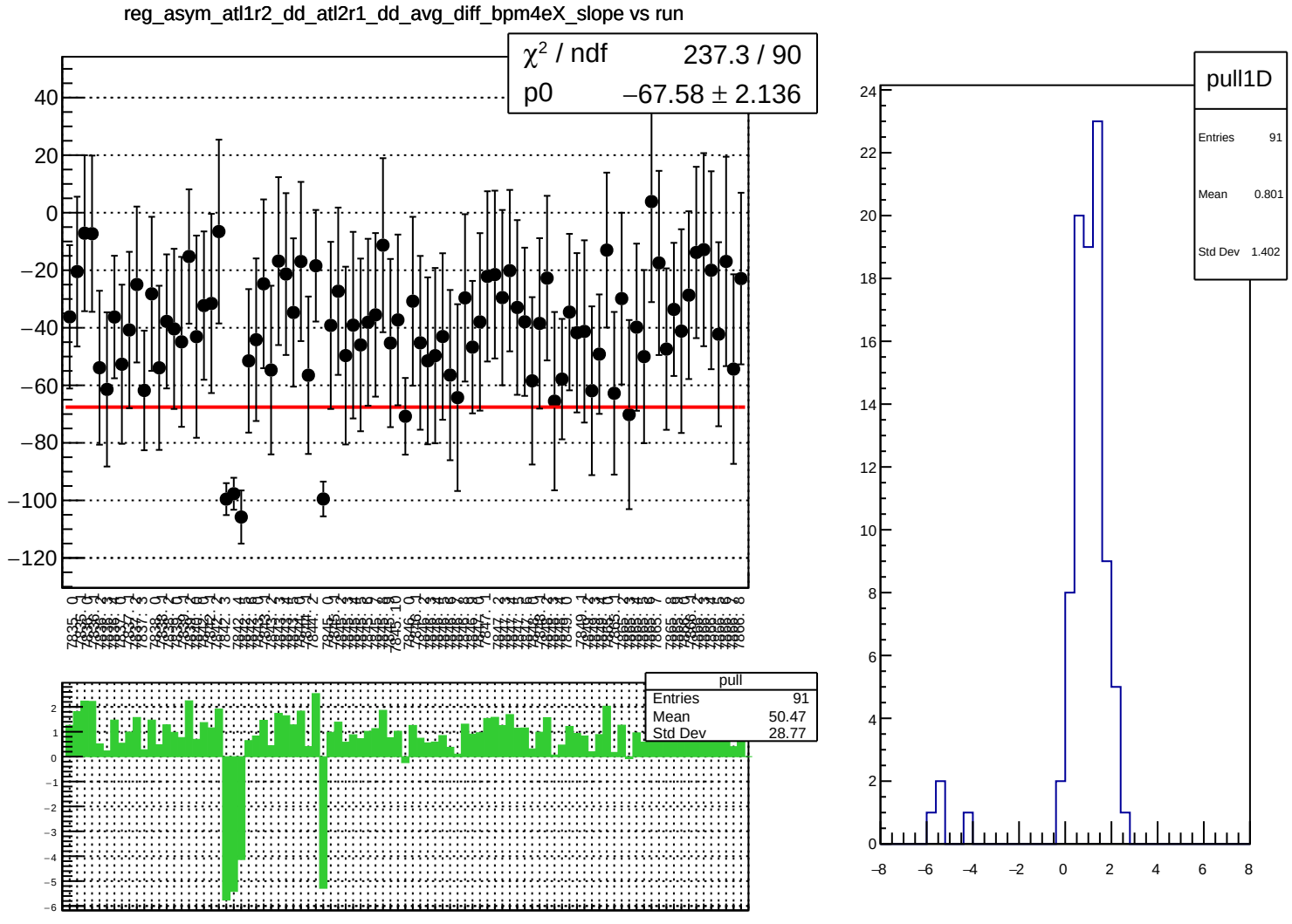

pull1D
Entries 91
Mean −0.001593
Std Dev 0.217
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

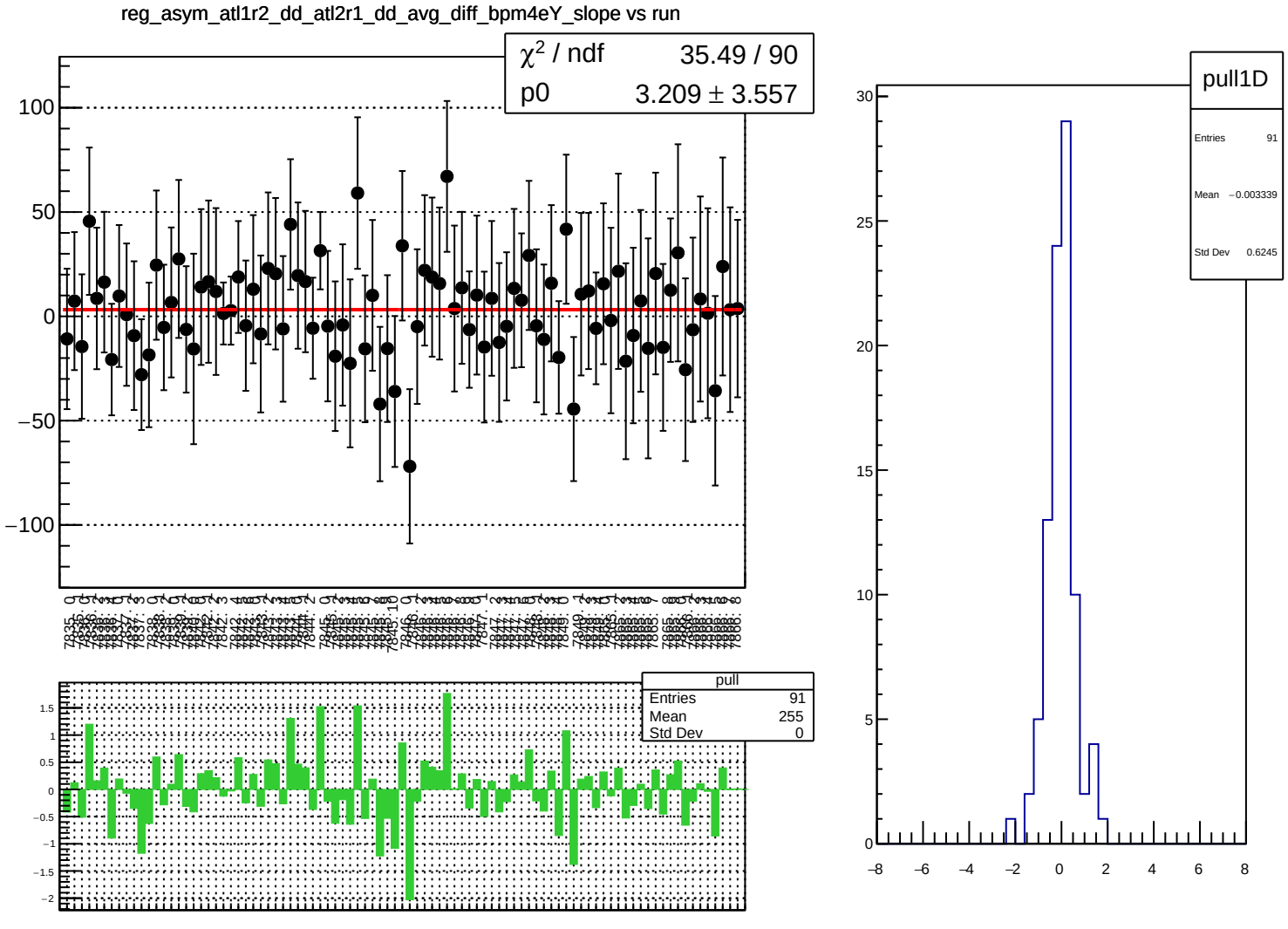

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 23.01 / 90
p0 121.3 ± 0.3238
pull
Entries 91
Mean 271.7
Std Dev 0
pull1D
Entries 91
Mean −0.03168
Std Dev 0.5018

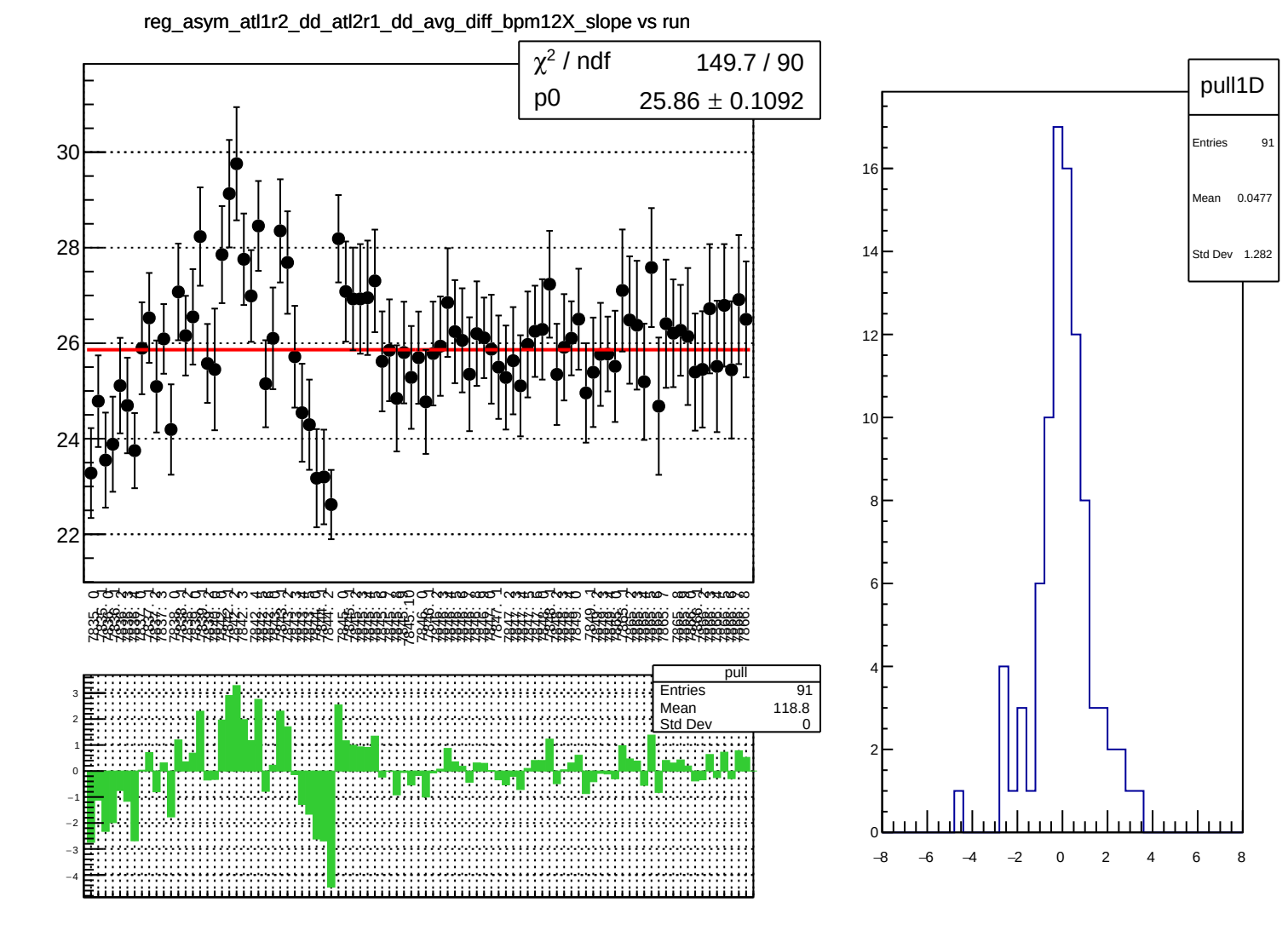

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 198.6 / 90
p0 44.57 ± 2.486
pull
Entries 91
Mean 50.97
Std Dev 29.07

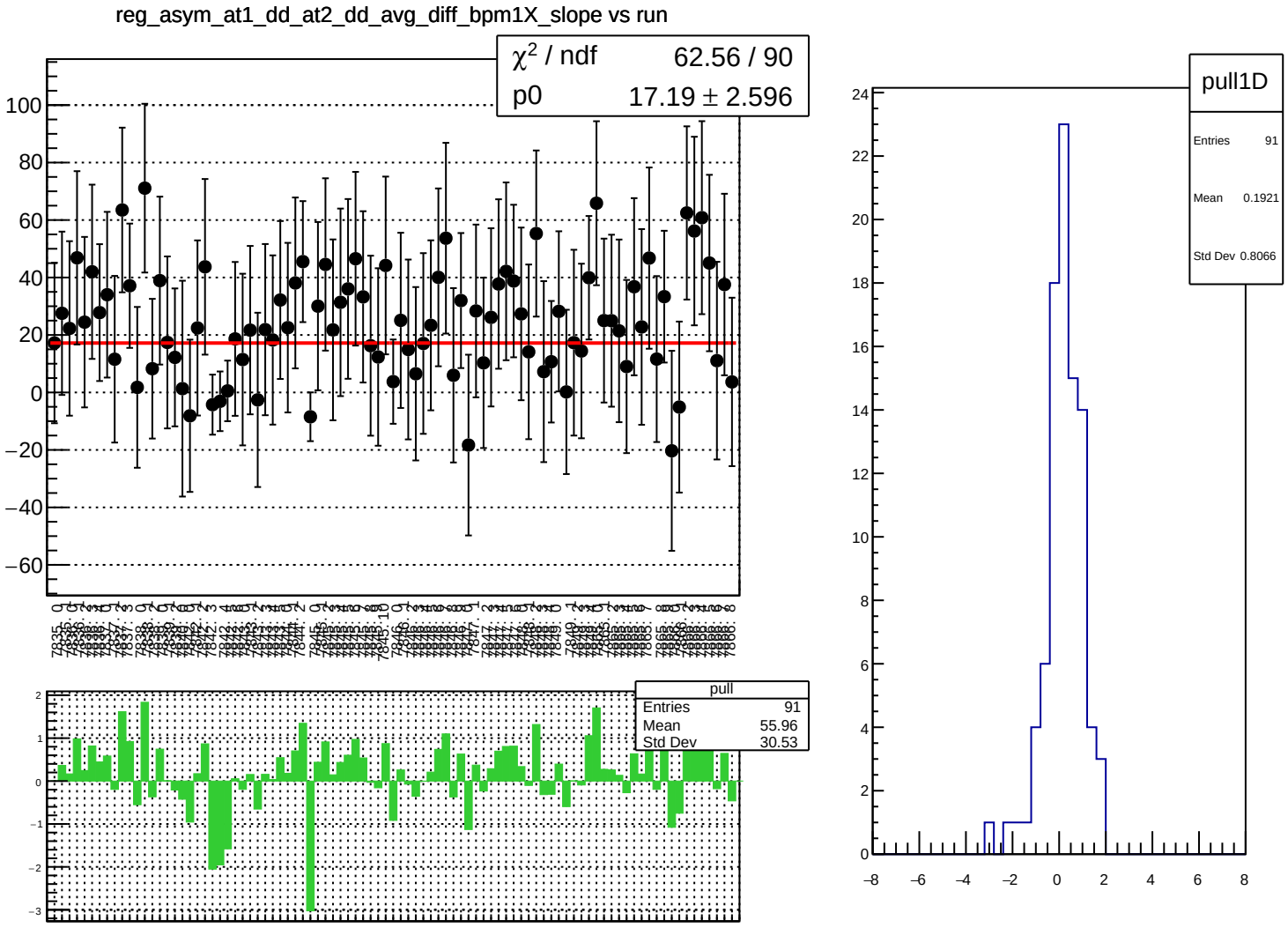

pull1D
Entries 91
Mean −0.6407
Std Dev 1.331

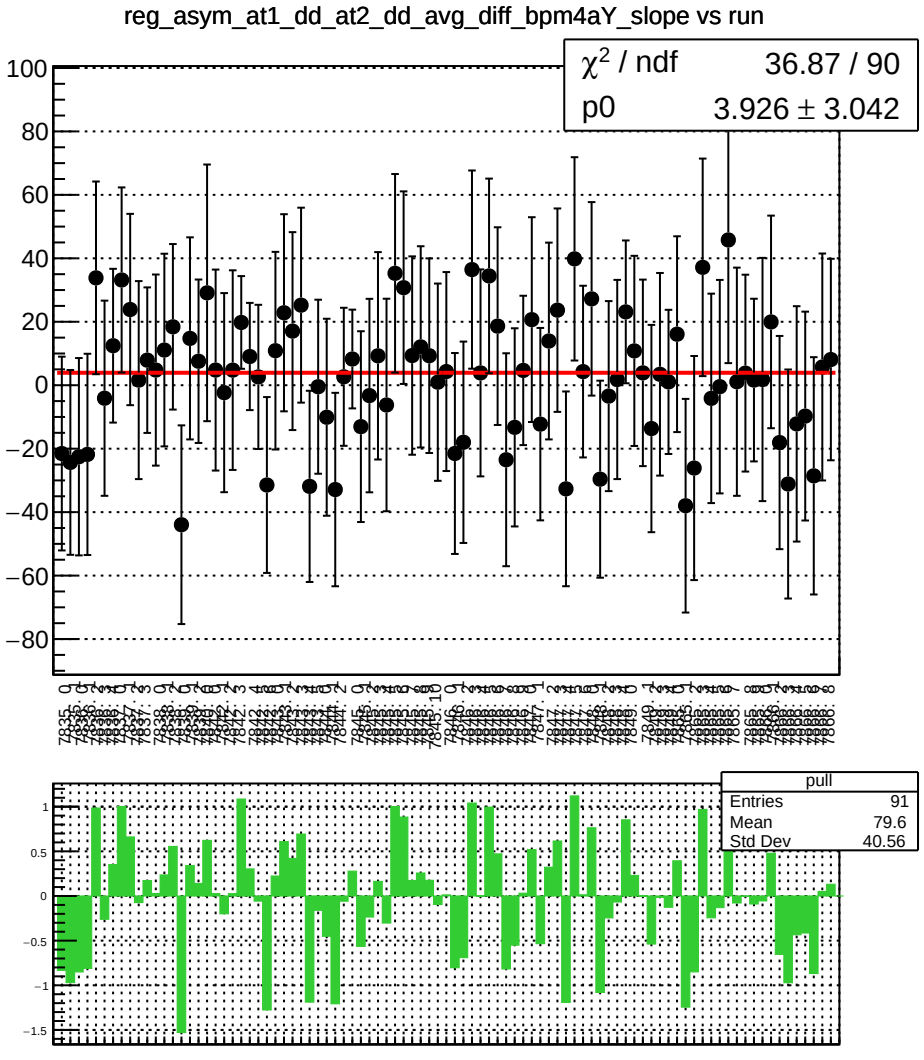

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.39 / 90
p0 −8.653 ± 3.027
pull
Entries 91
Mean 200.4
Std Dev 0
pull1D
Entries 91
Mean 0.007407
Std Dev 0.6236

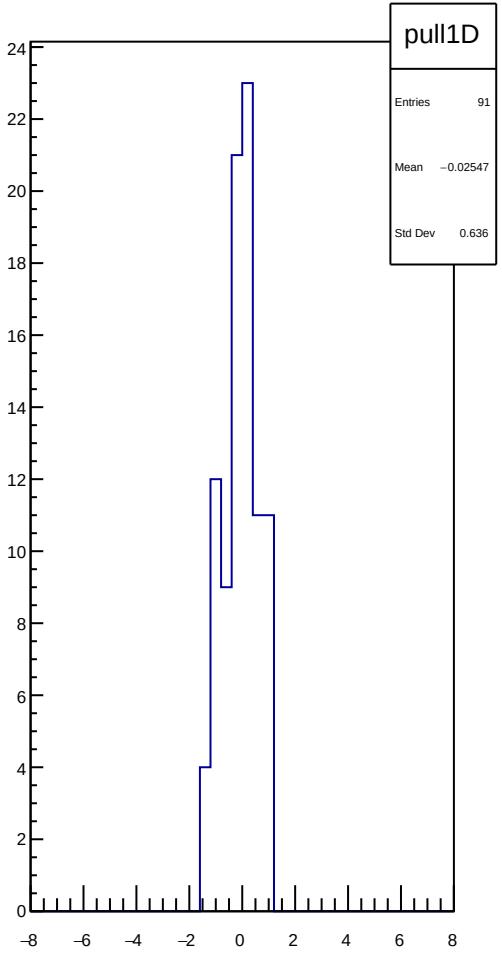

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 237.3 / 90
p0 −67.58 ± 2.136
pull
Entries 91
Mean 50.47
Std Dev 28.77
pull1D
Entries 91
Mean 0.801
Std Dev 1.402

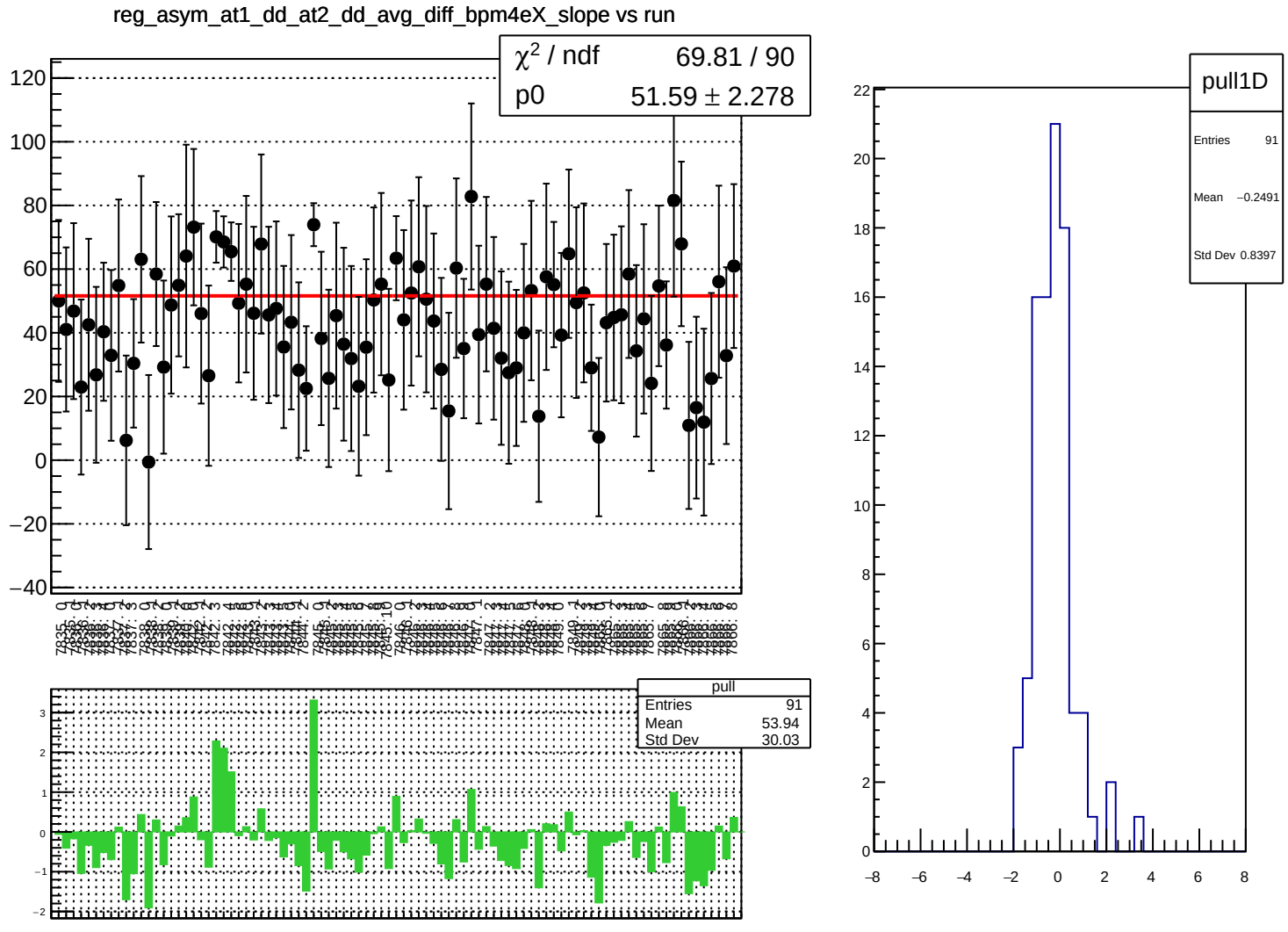

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.49 / 90
p0 3.209 ± 3.557
100
50
0
−50
−100
pull
Entries 91
Mean 255
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.003339
Std Dev 0.6245
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

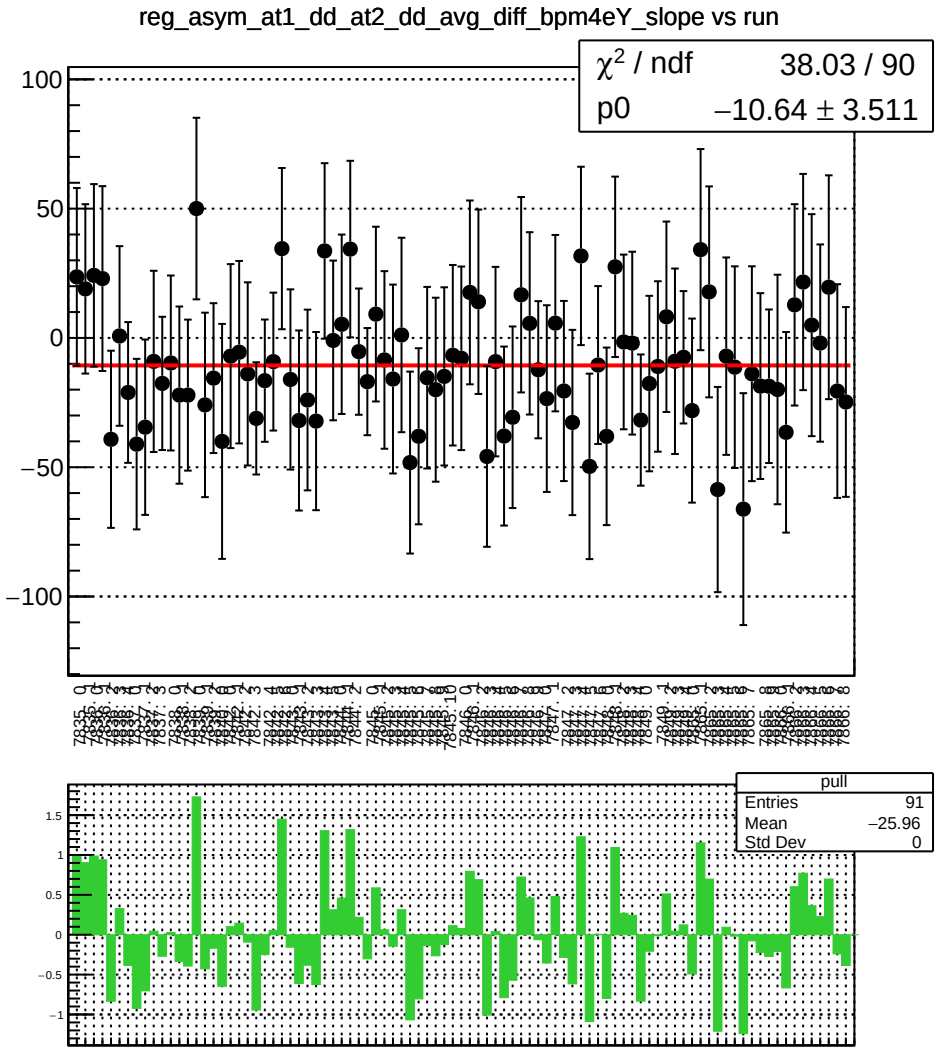

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 149.7 / 90
p0 25.86 ± 0.1092
30
28
26
24
22
pull
Entries 91
Mean 118.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.0477
Std Dev 1.282
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

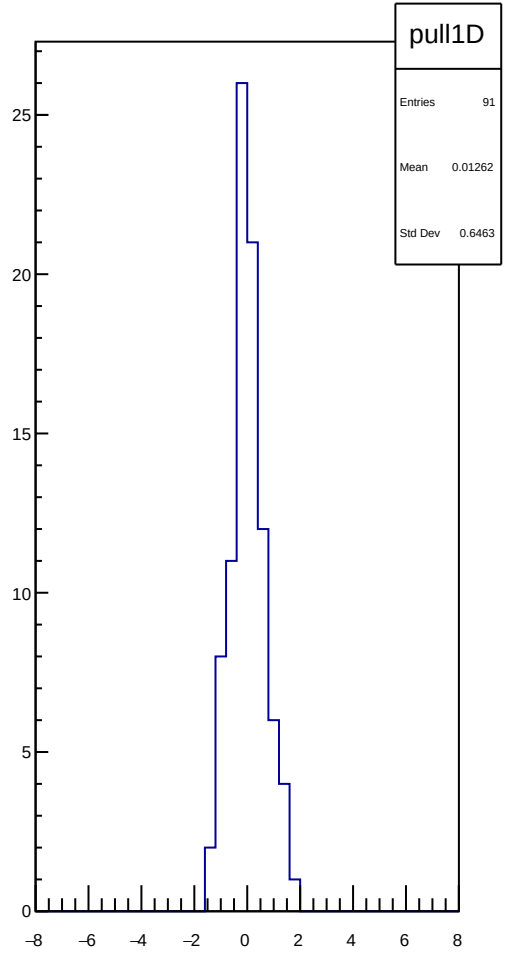

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 62.56 / 90
p0 17.19 ± 2.596
pull
Entries 91
Mean 55.96
Std Dev 30.53
pull1D
Entries 91
Mean 0.1921
Std Dev 0.8066

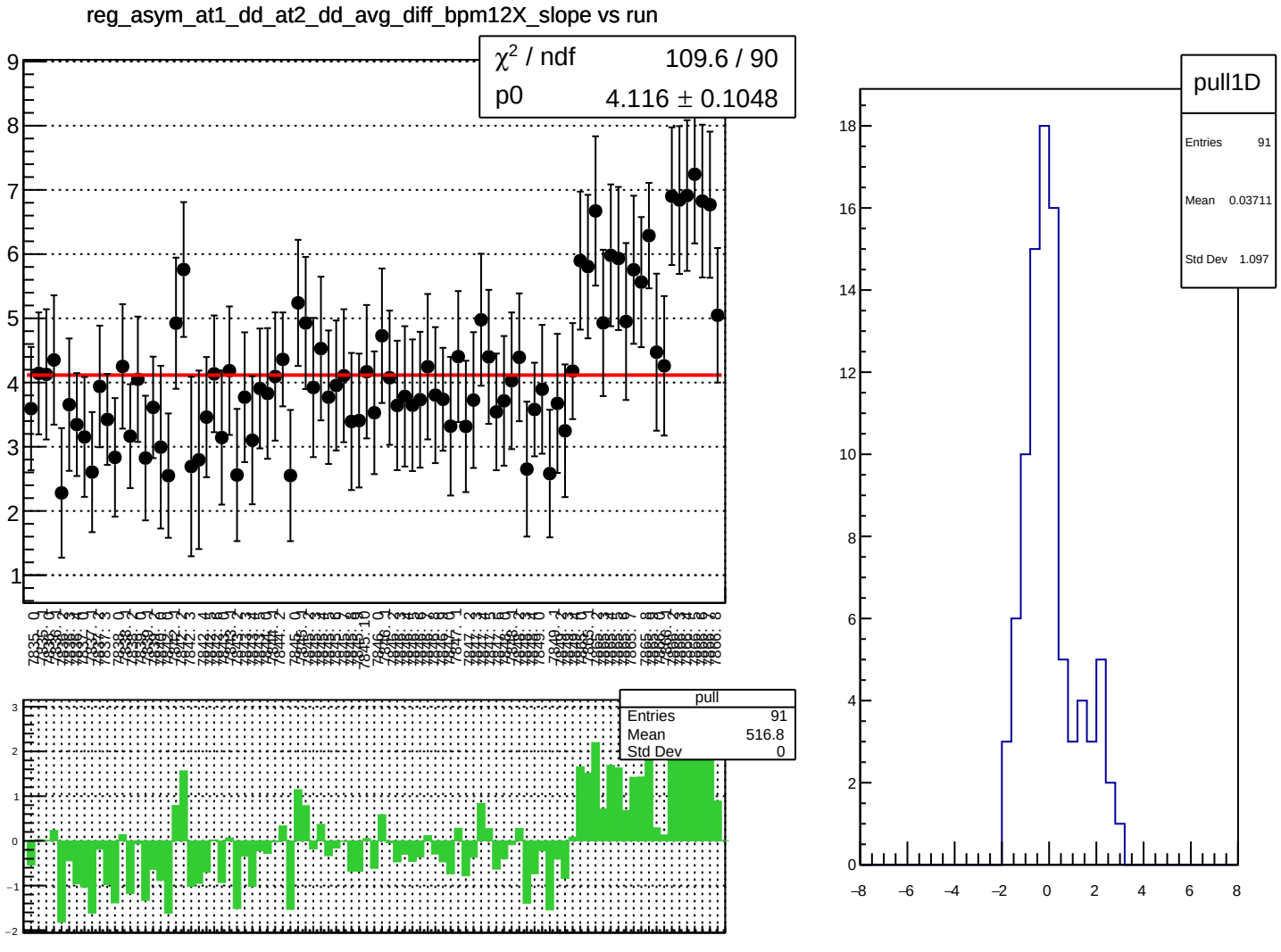

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 36.87 / 90
p0 3.926 ± 3.042
pull
Entries 91
Mean 79.6
Std Dev 40.56

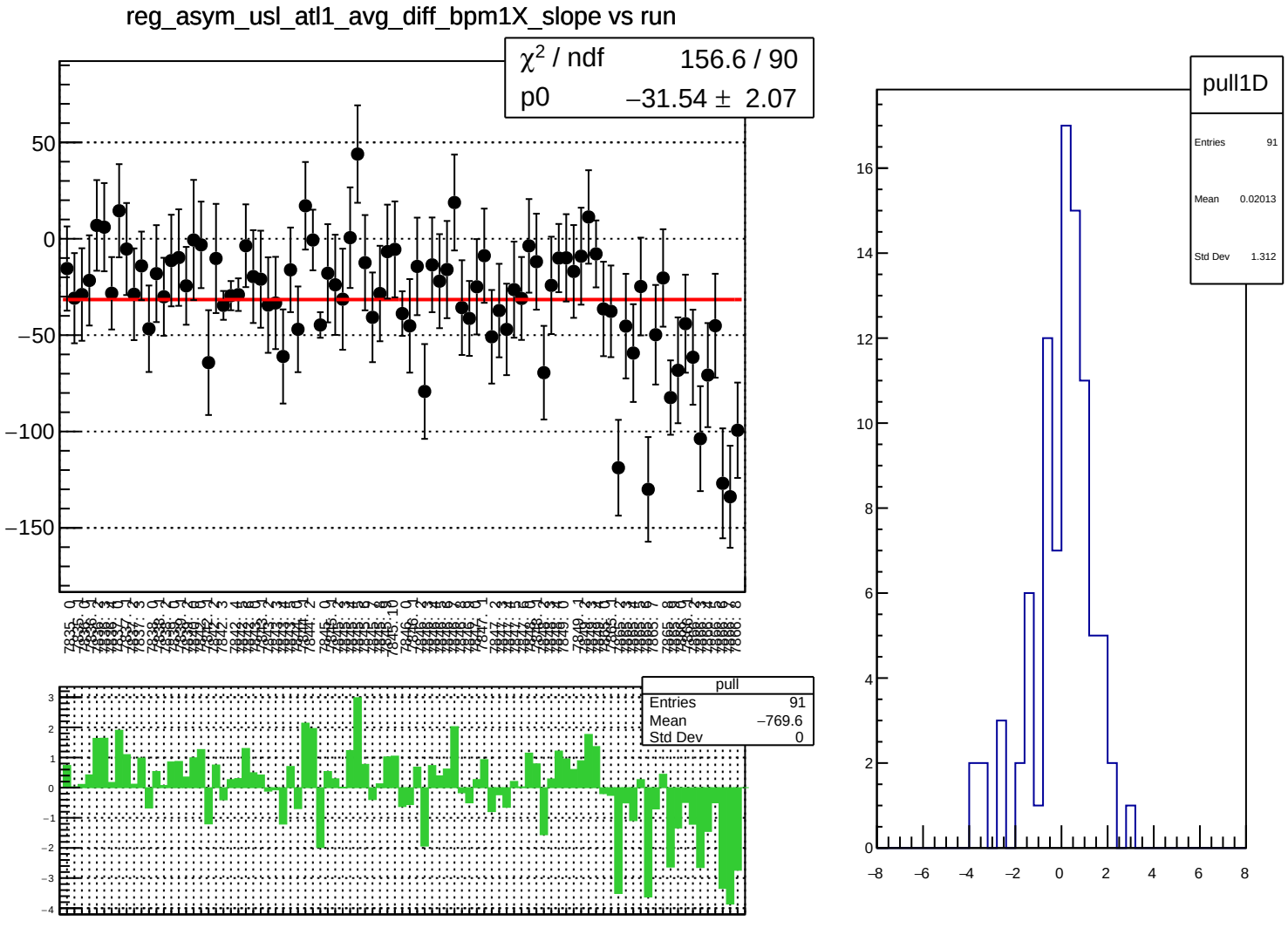

pull1D
Entries 91
Mean −0.02547
Std Dev 0.636

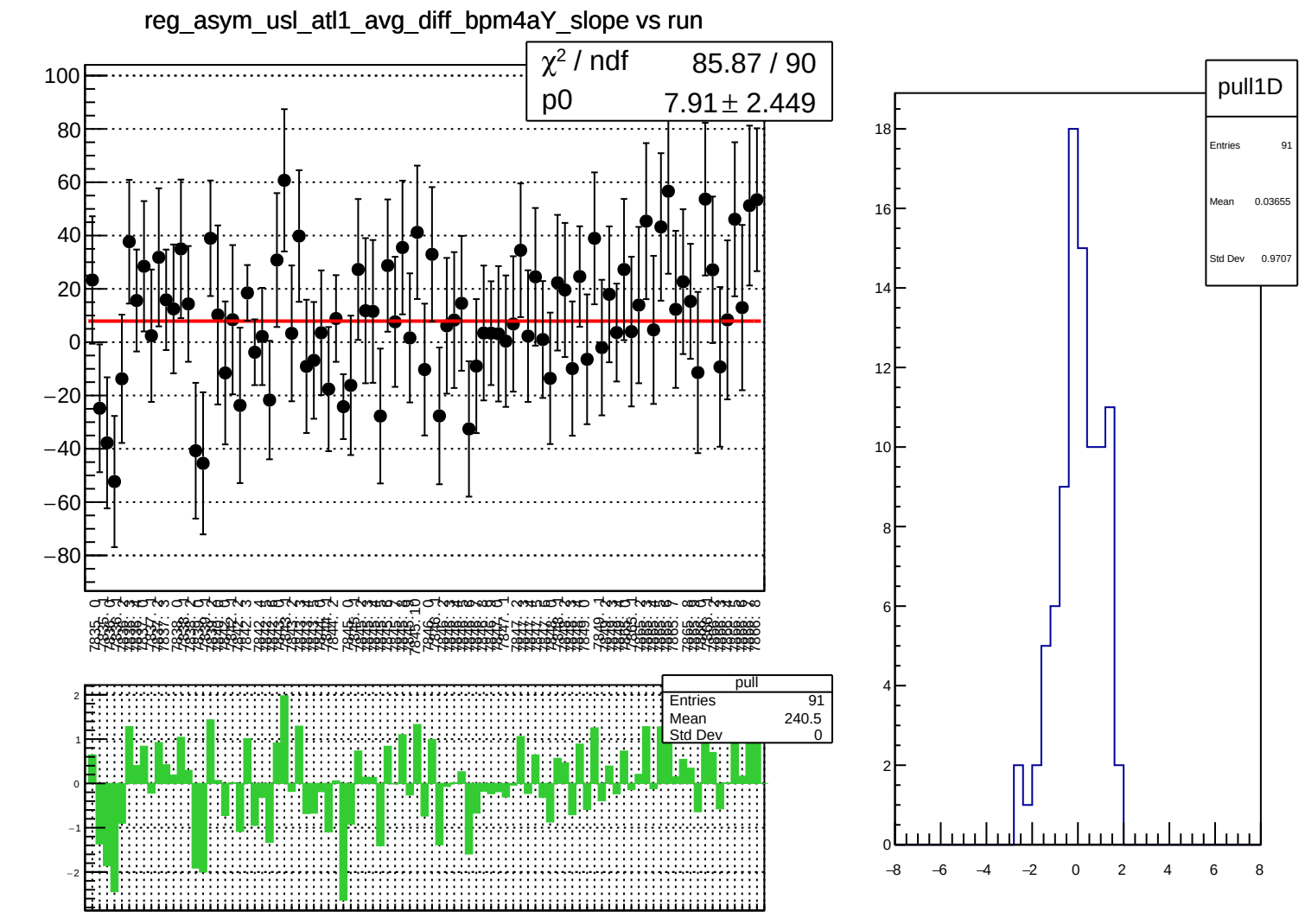

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.81 / 90
p0 51.59 ± 2.278
pull
Entries 91
Mean 53.94
Std Dev 30.03
pull1D
Entries 91
Mean −0.2491
Std Dev 0.8397

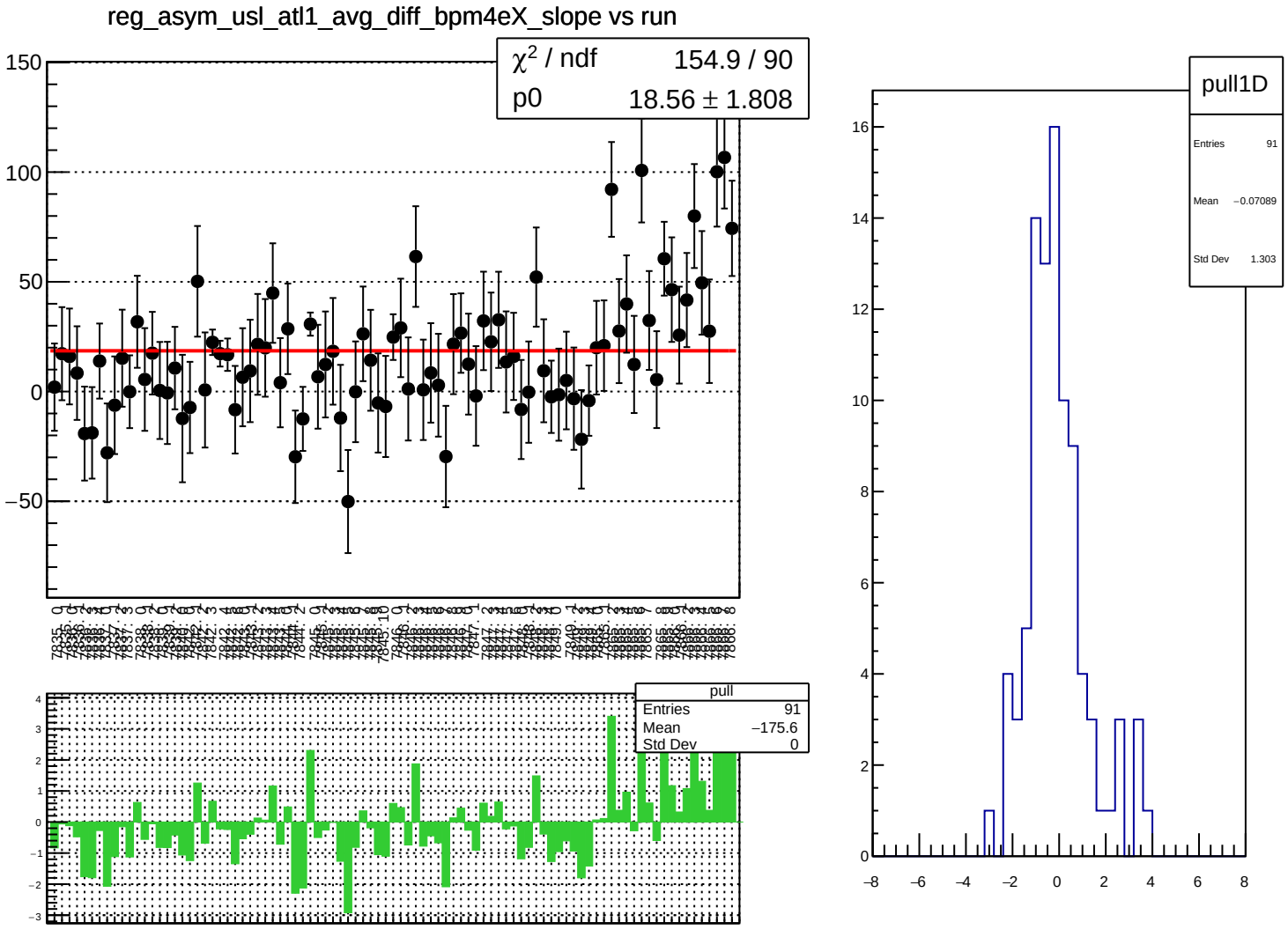

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.03 / 90
p0 −10.64 ± 3.511
100
50
0
−50
−100
pull
Entries 91
Mean −25.96
Std Dev 0
1.5
1
0.5
0
−0.5
−1

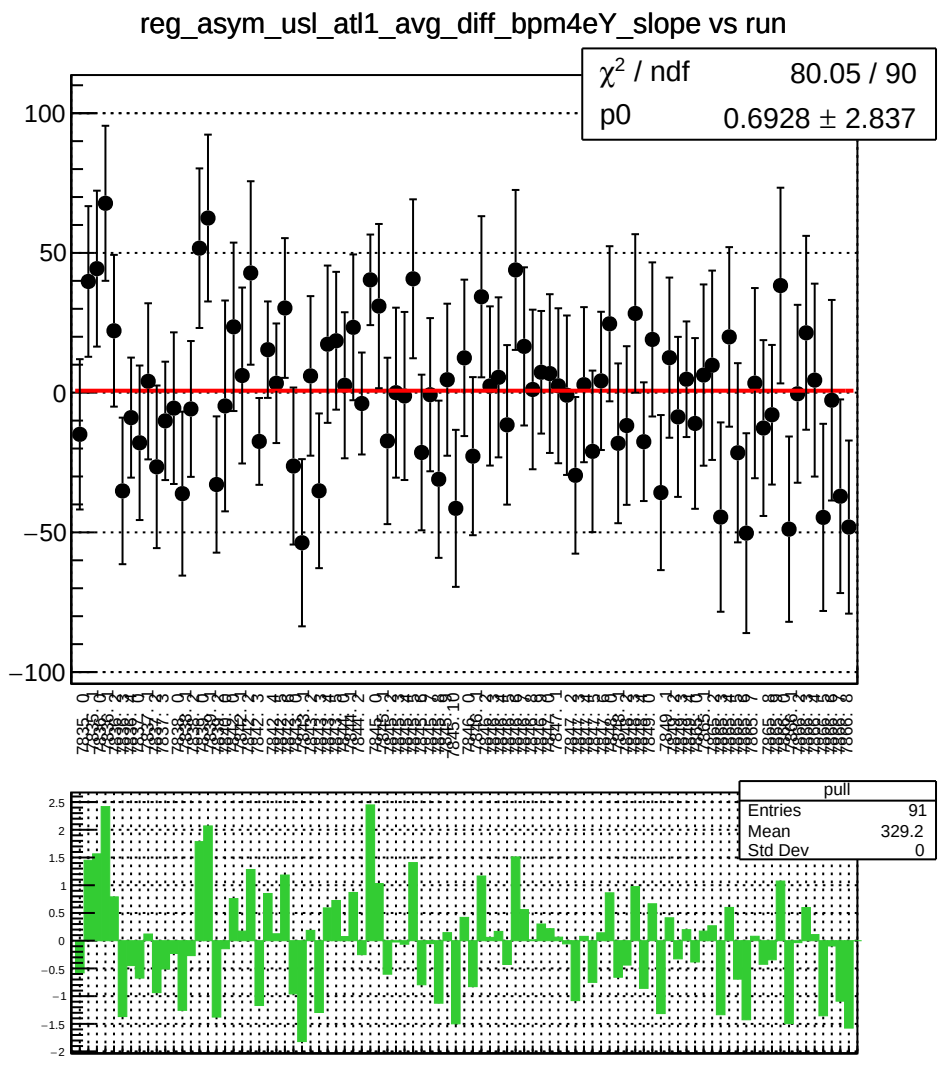

pull1D
Entries 91
Mean 0.01262
Std Dev 0.6463
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

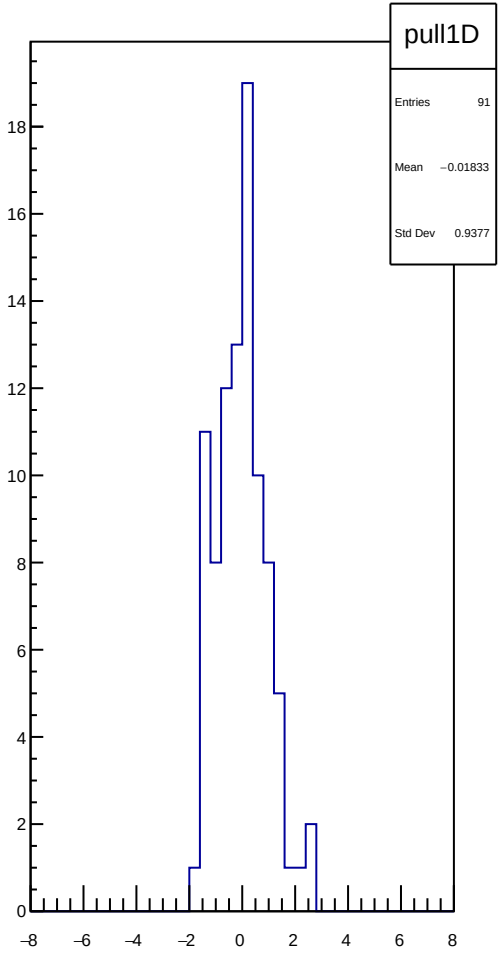

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 109.6 / 90
p0 4.116 ± 0.1048
pull
Entries 91
Mean 516.8
Std Dev 0
pull1D
Entries 91
Mean 0.03711
Std Dev 1.097

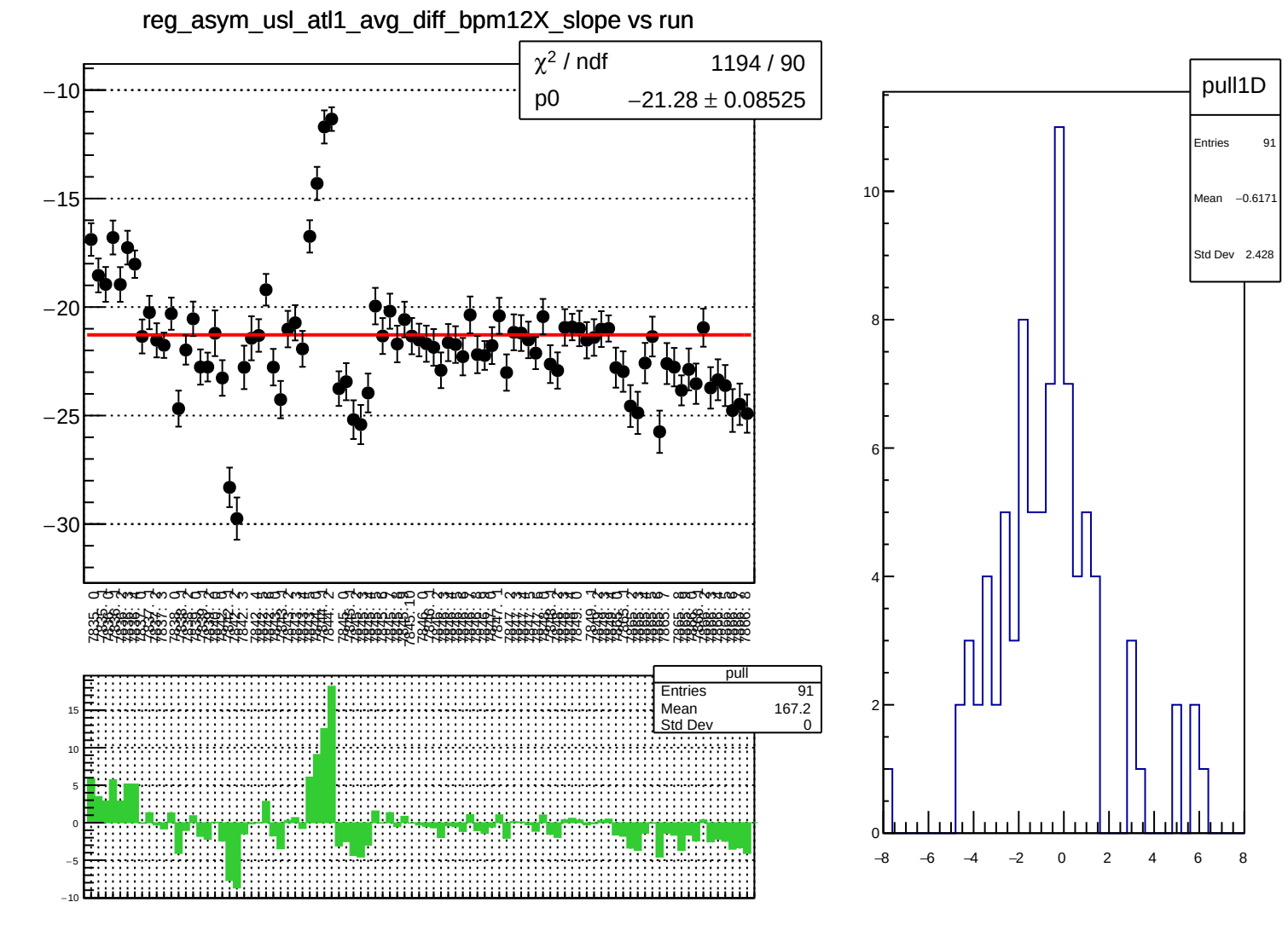

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 156.6 / 90
p0 −31.54 ± 2.07
pull
Entries 91
Mean −769.6
Std Dev 0
pull1D
Entries 91
Mean 0.02013
Std Dev 1.312

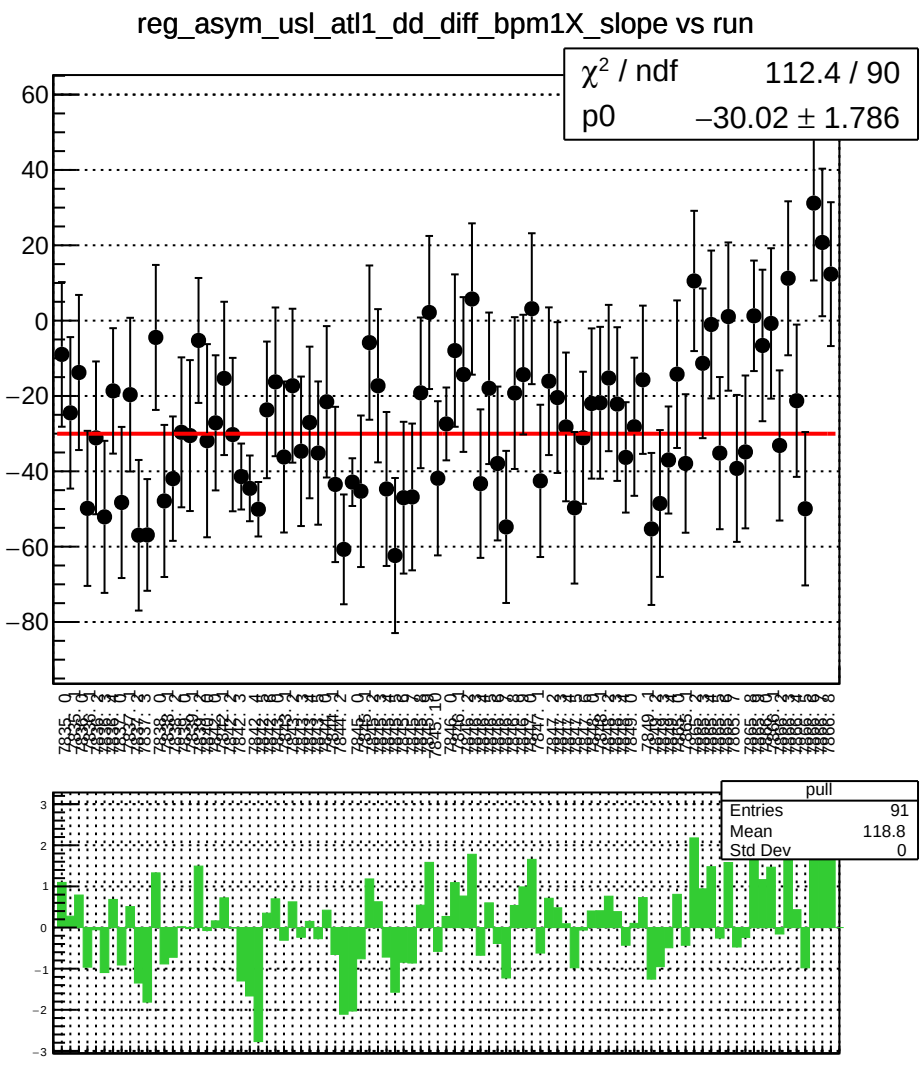

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.87 / 90
p0 7.91 ± 2.449
pull
Entries 91
Mean 240.5
Std Dev 0
pull1D
Entries 91
Mean 0.03655
Std Dev 0.9707

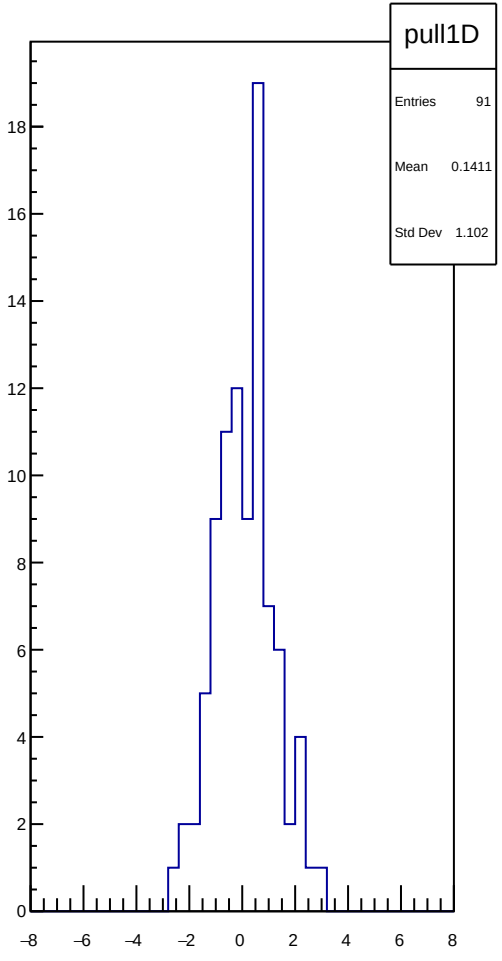

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 154.9 / 90
p0 18.56 ± 1.808
150
100
50
0
−50
pull
Entries 91
Mean −175.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.07089
Std Dev 1.303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

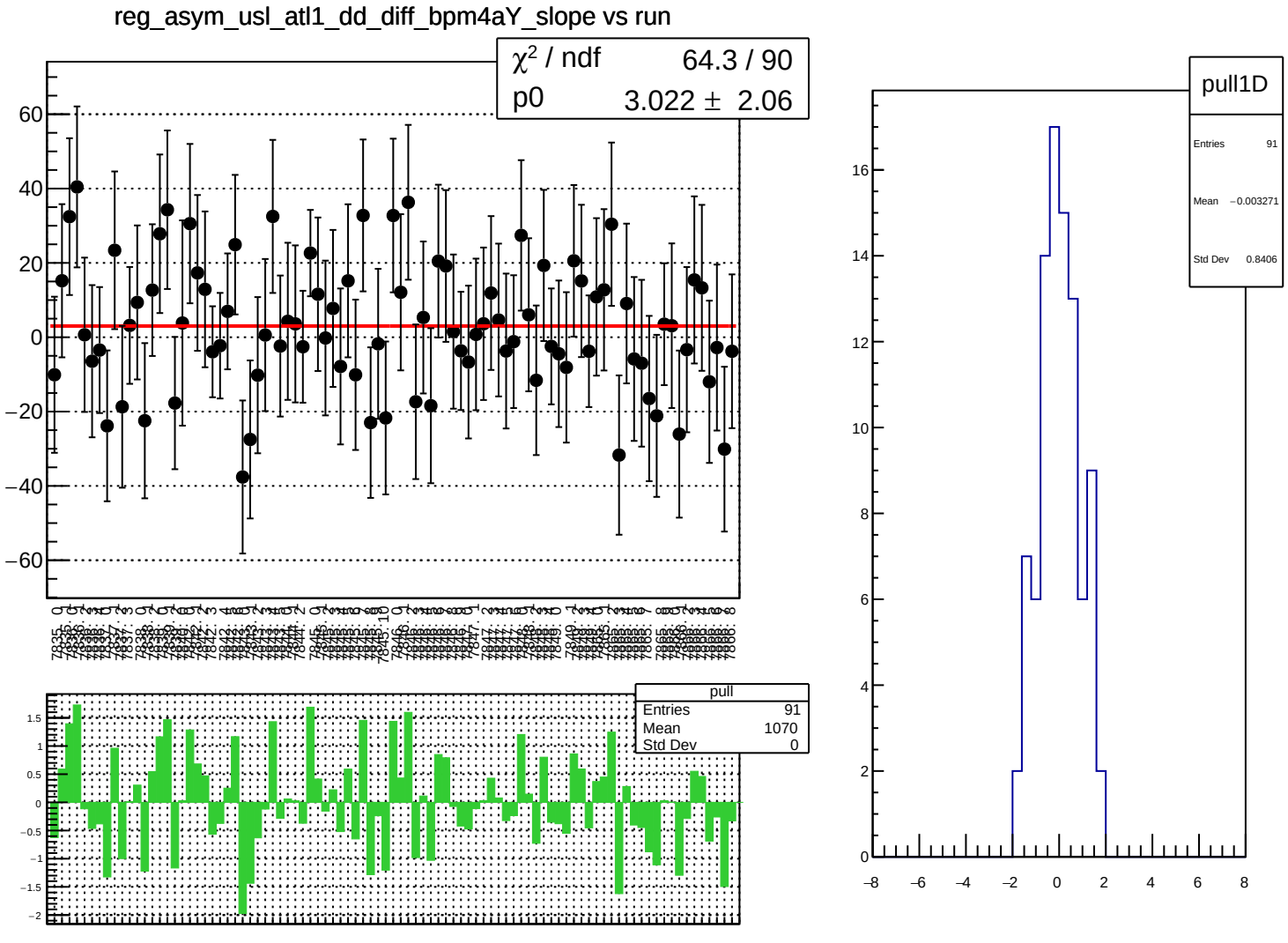

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.05 / 90
p0 0.6928 ± 2.837
pull
Entries 91
Mean 329.2
Std Dev 0

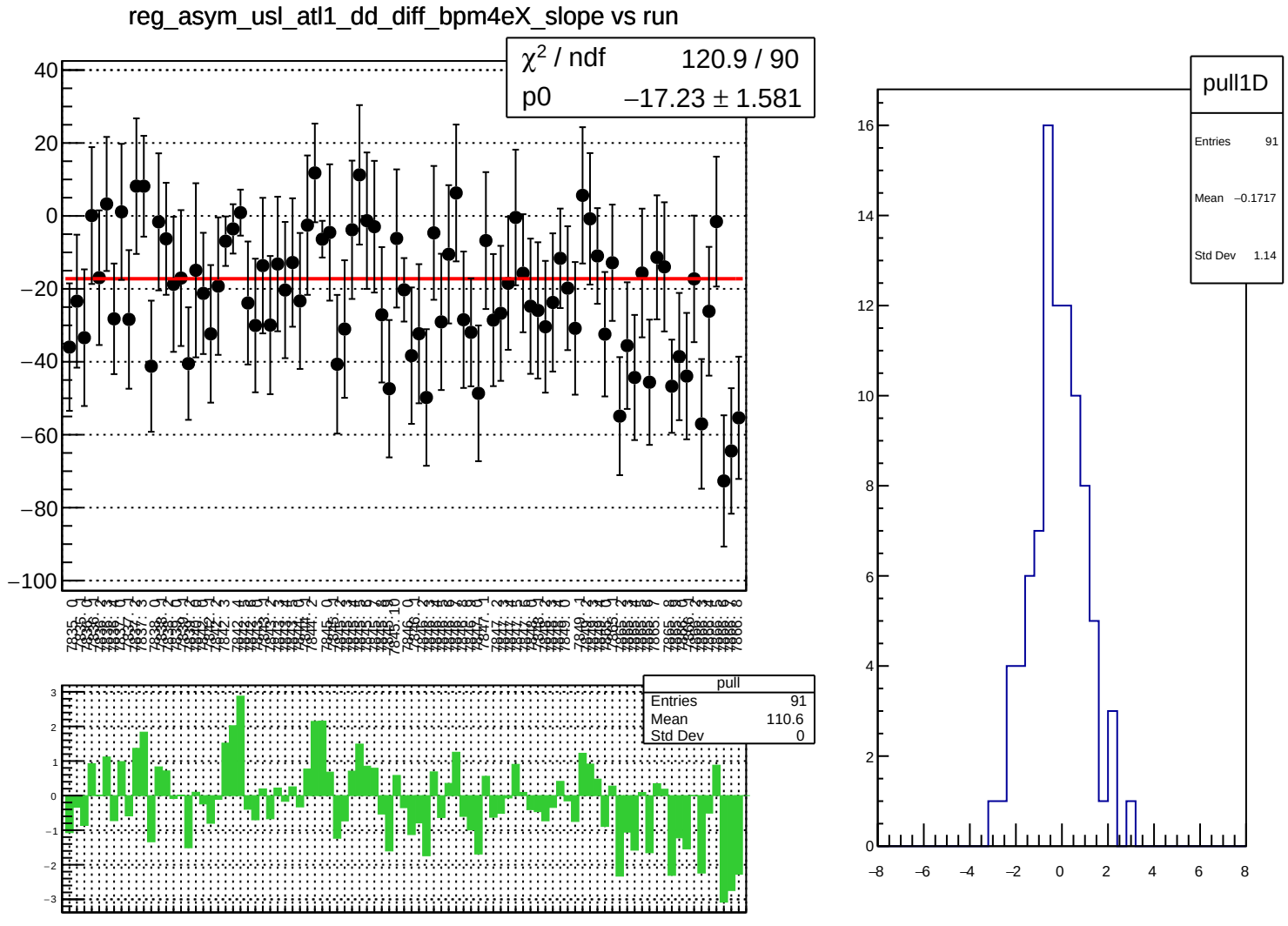

pull1D
Entries 91
Mean −0.01833
Std Dev 0.9377

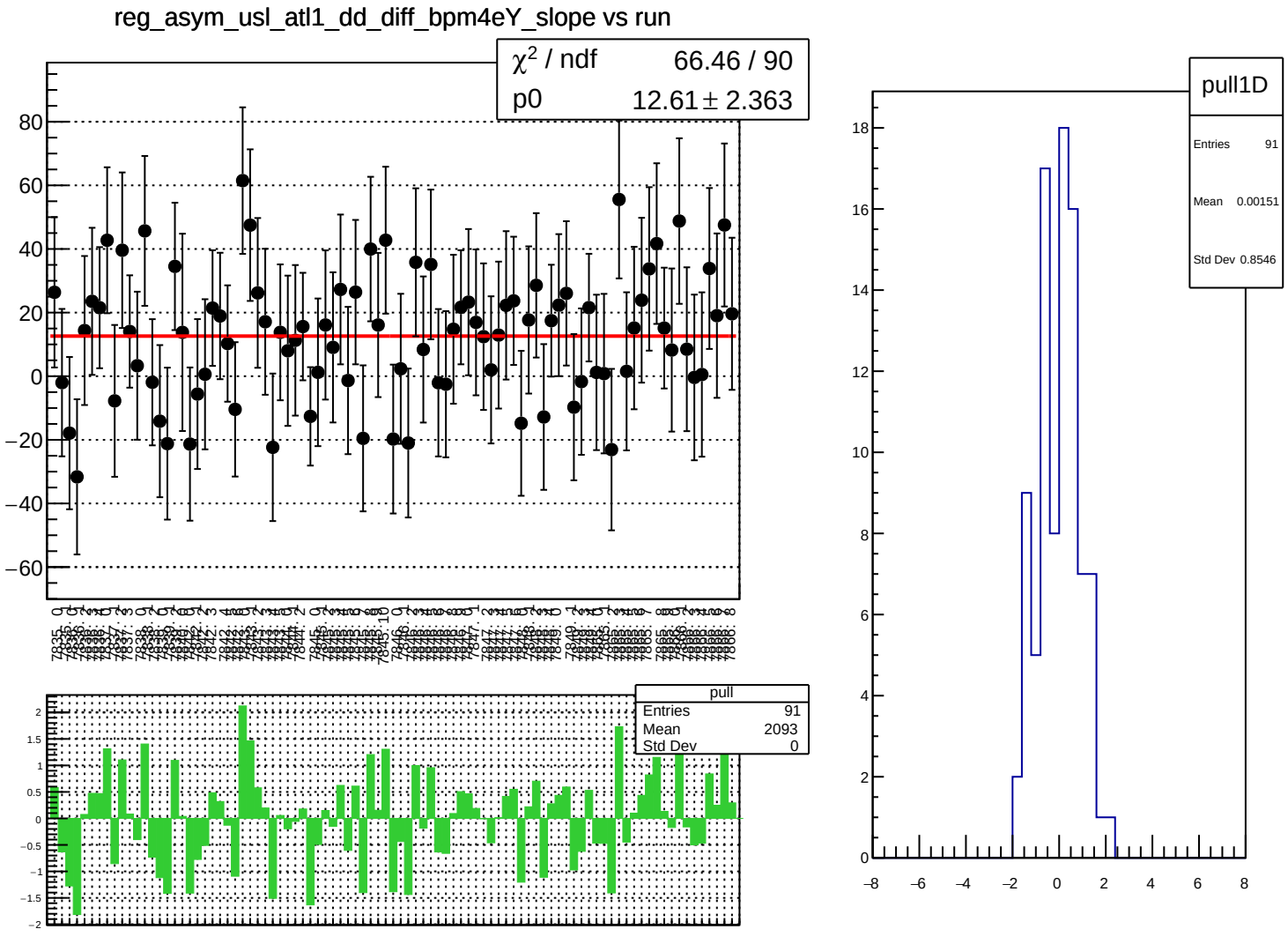

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 1194 / 90
p0 −21.28 ± 0.08525
pull
Entries 91
Mean 167.2
Std Dev 0
pull1D
Entries 91
Mean −0.6171
Std Dev 2.428

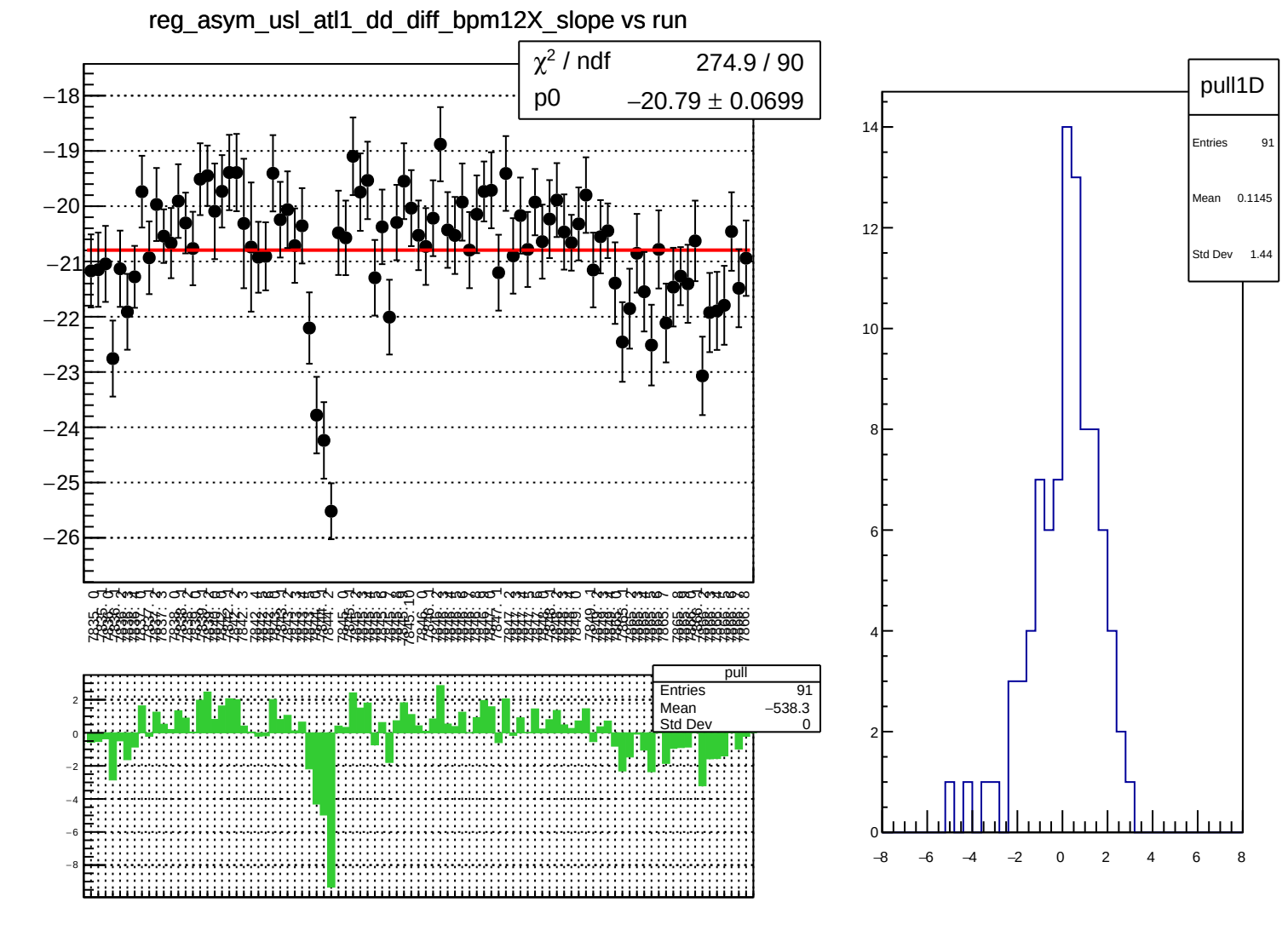

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 112.4 / 90
p0 −30.02 ± 1.786
pull
Entries 91
Mean 118.8
Std Dev 0

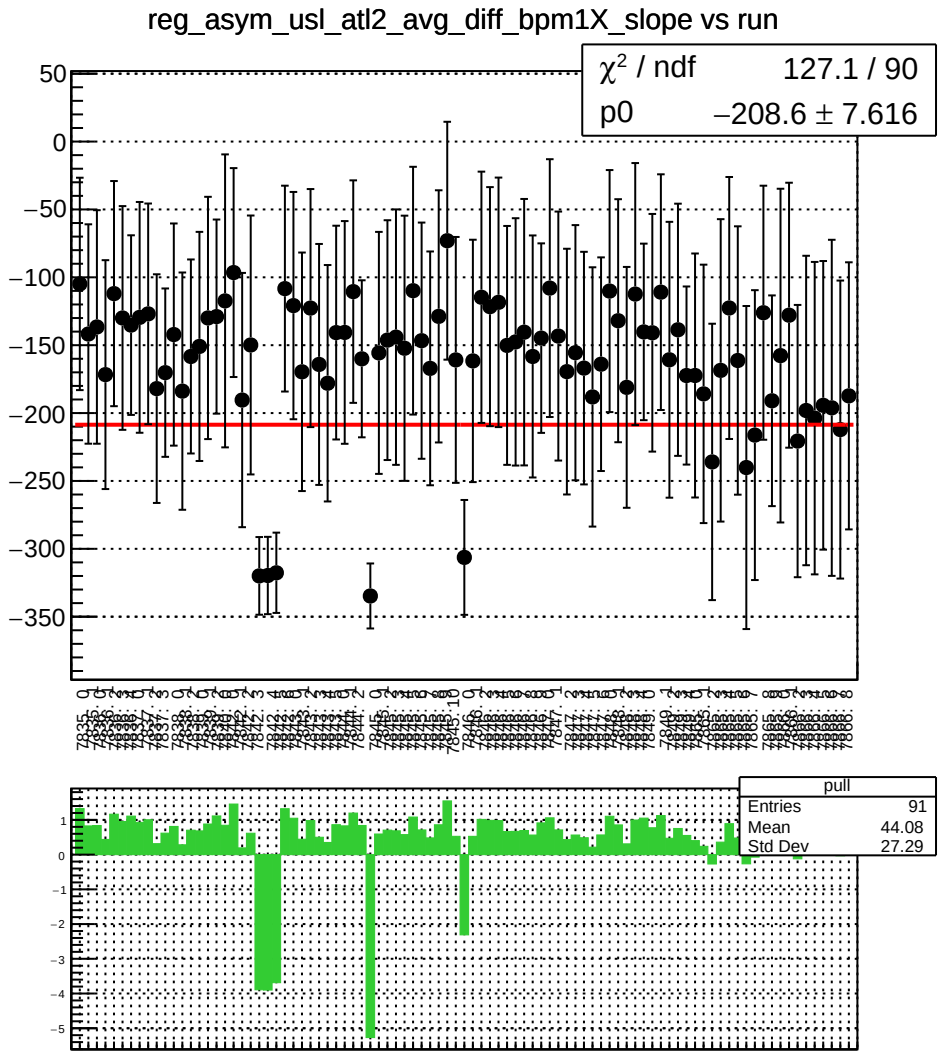

pull1D
Entries 91
Mean 0.1411
Std Dev 1.102

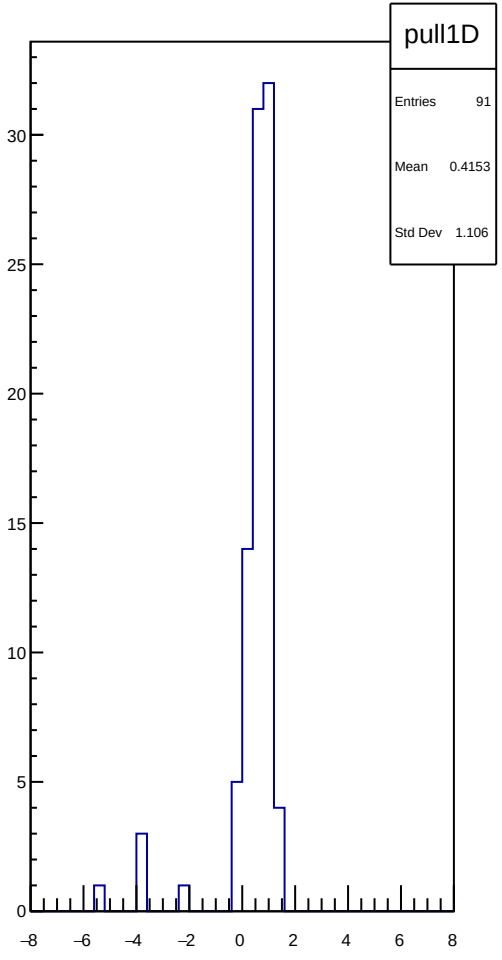

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.3 / 90
p0 3.022 ± 2.06
pull
Entries 91
Mean 1070
Std Dev 0
pull1D
Entries 91
Mean −0.003271
Std Dev 0.8406

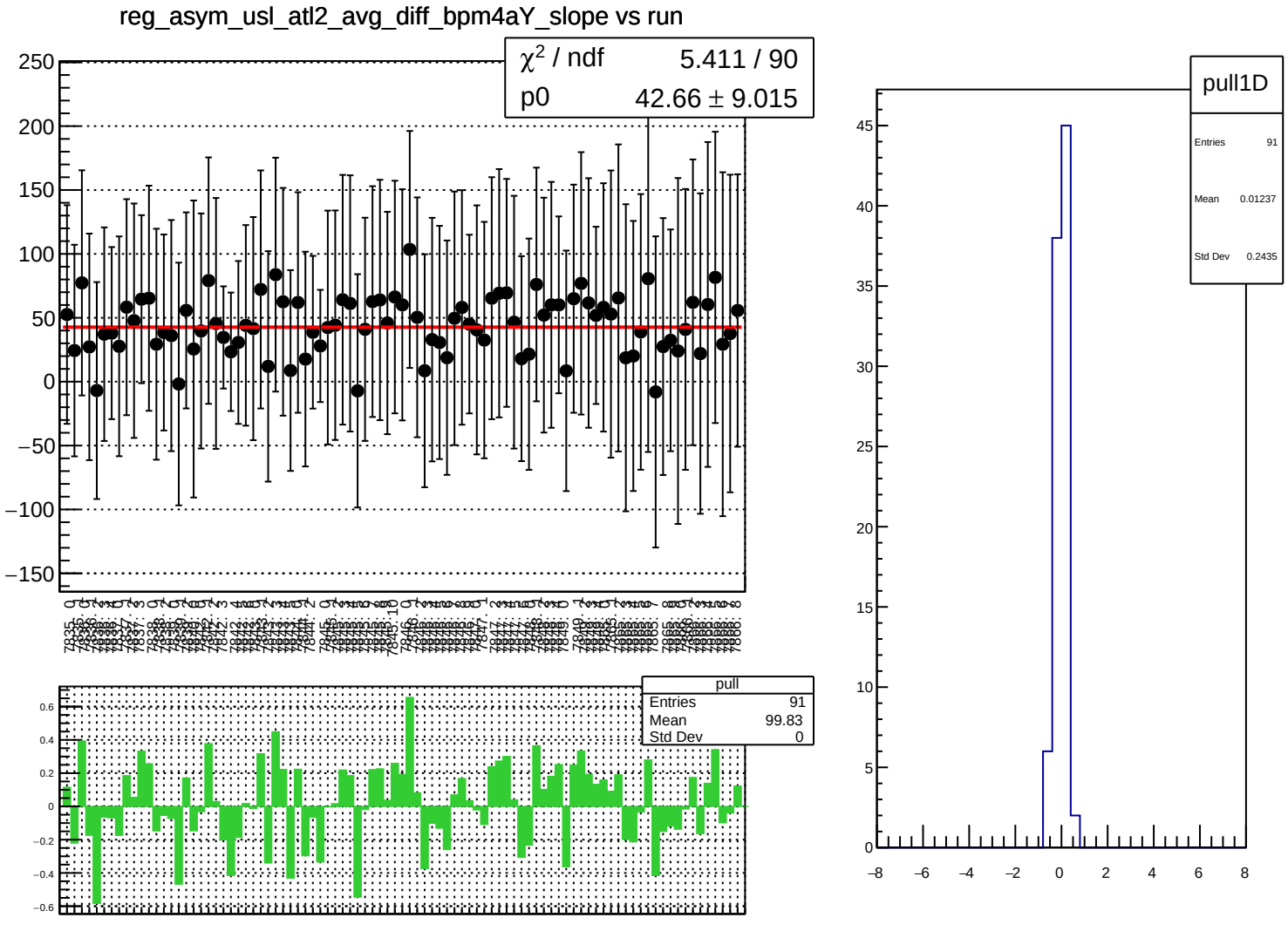

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 120.9 / 90
p0 −17.23 ± 1.581
pull
Entries 91
Mean 110.6
Std Dev 0
pull1D
Entries 91
Mean −0.1717
Std Dev 1.14

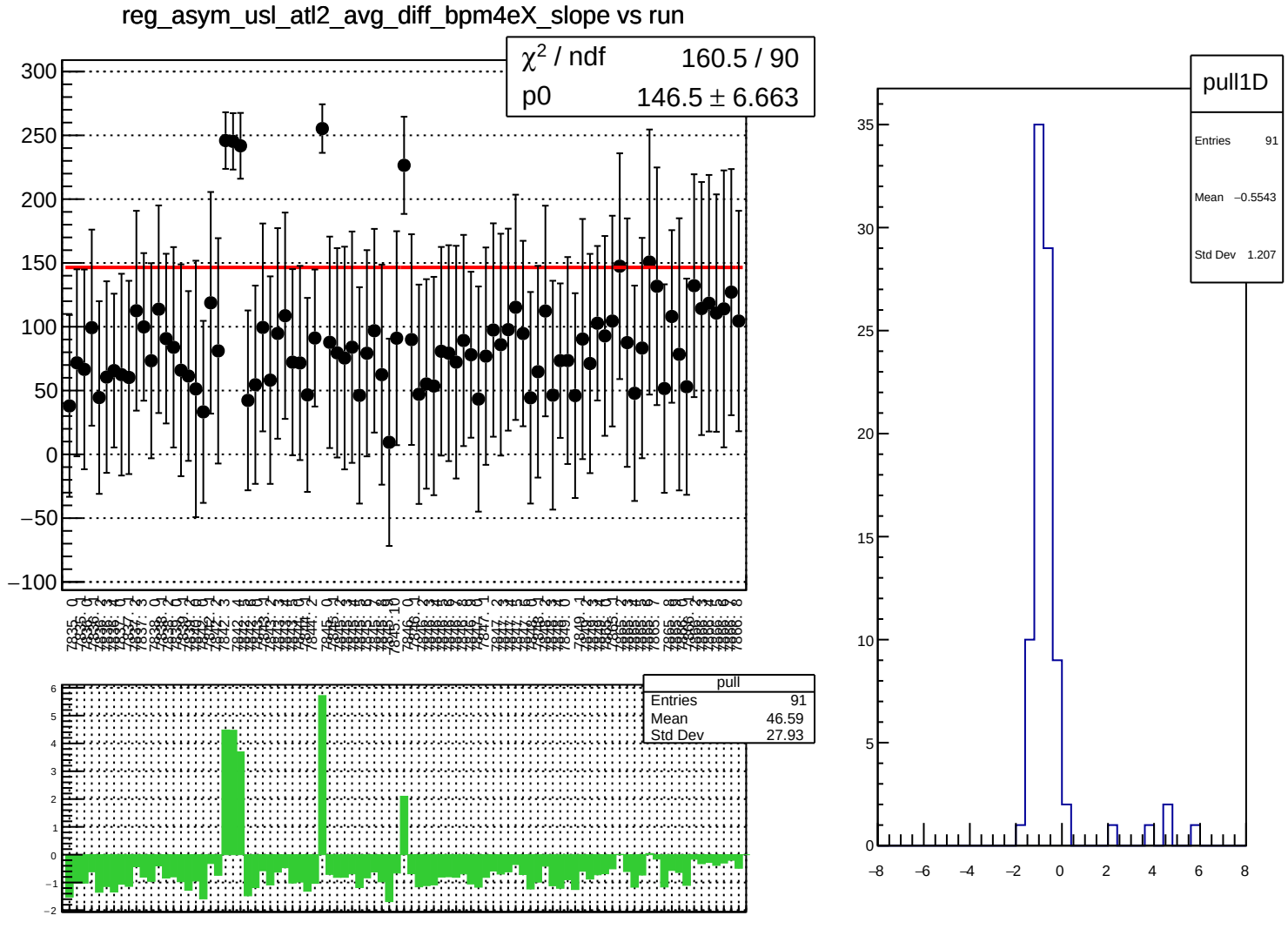

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.46 / 90
p0 12.61 ± 2.363
pull
Entries 91
Mean 2093
Std Dev 0
pull1D
Entries 91
Mean 0.00151
Std Dev 0.8546

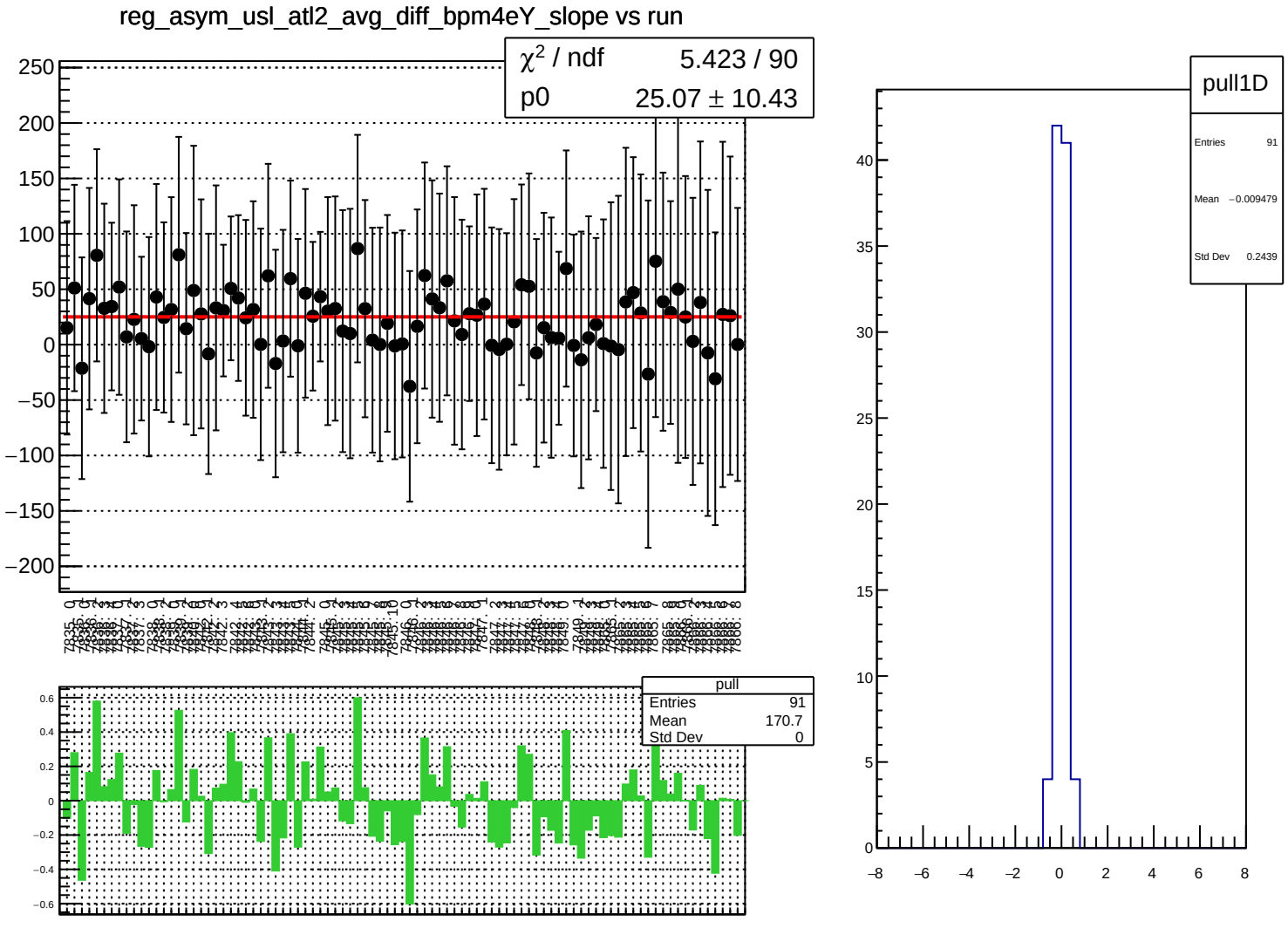

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 274.9 / 90
p0 −20.79 ± 0.0699
pull
Entries 91
Mean −538.3
Std Dev 0
pull1D
Entries 91
Mean 0.1145
Std Dev 1.44

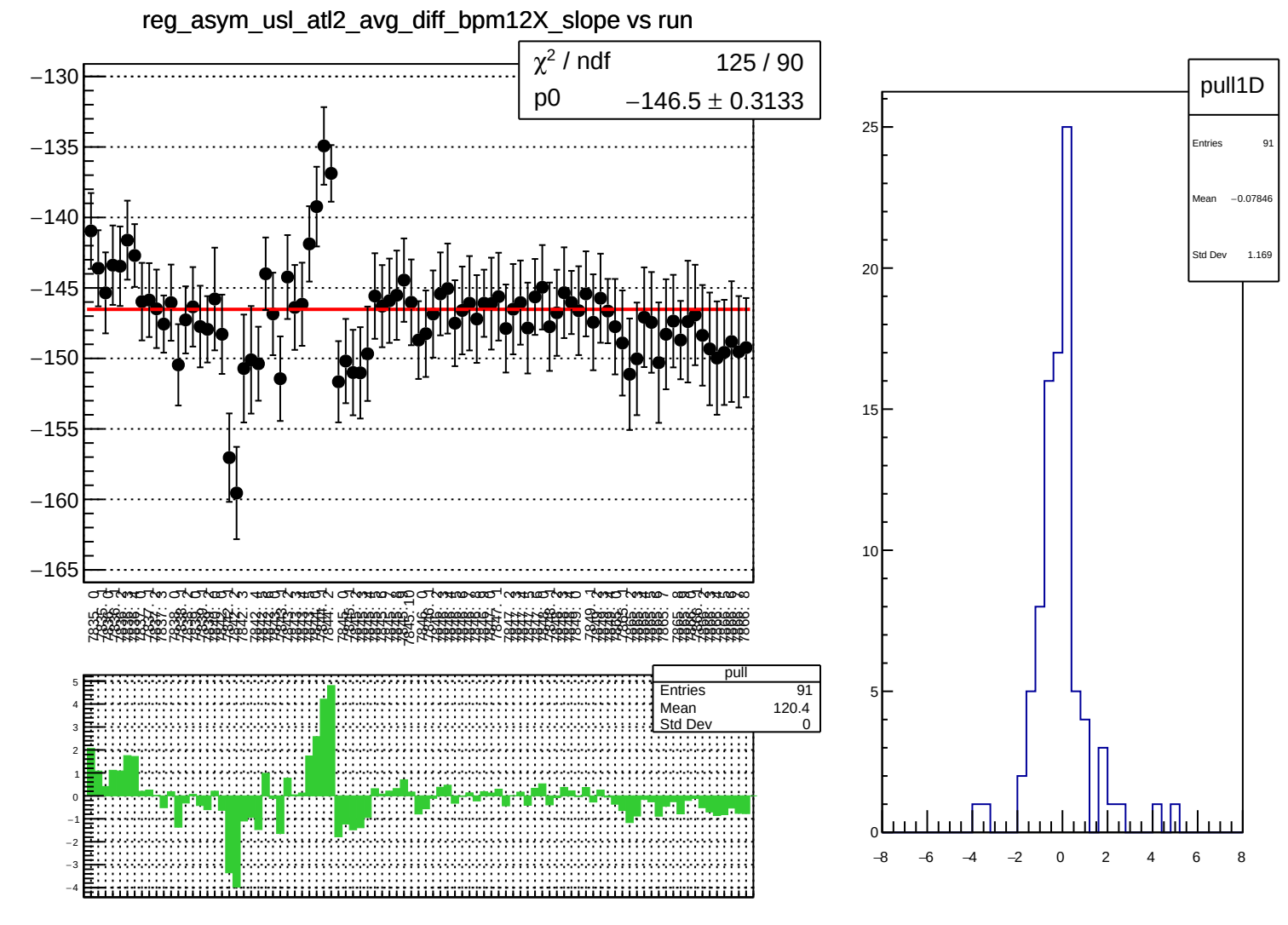

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 127.1 / 90
p0 −208.6 ± 7.616
pull
Entries 91
Mean 44.08
Std Dev 27.29

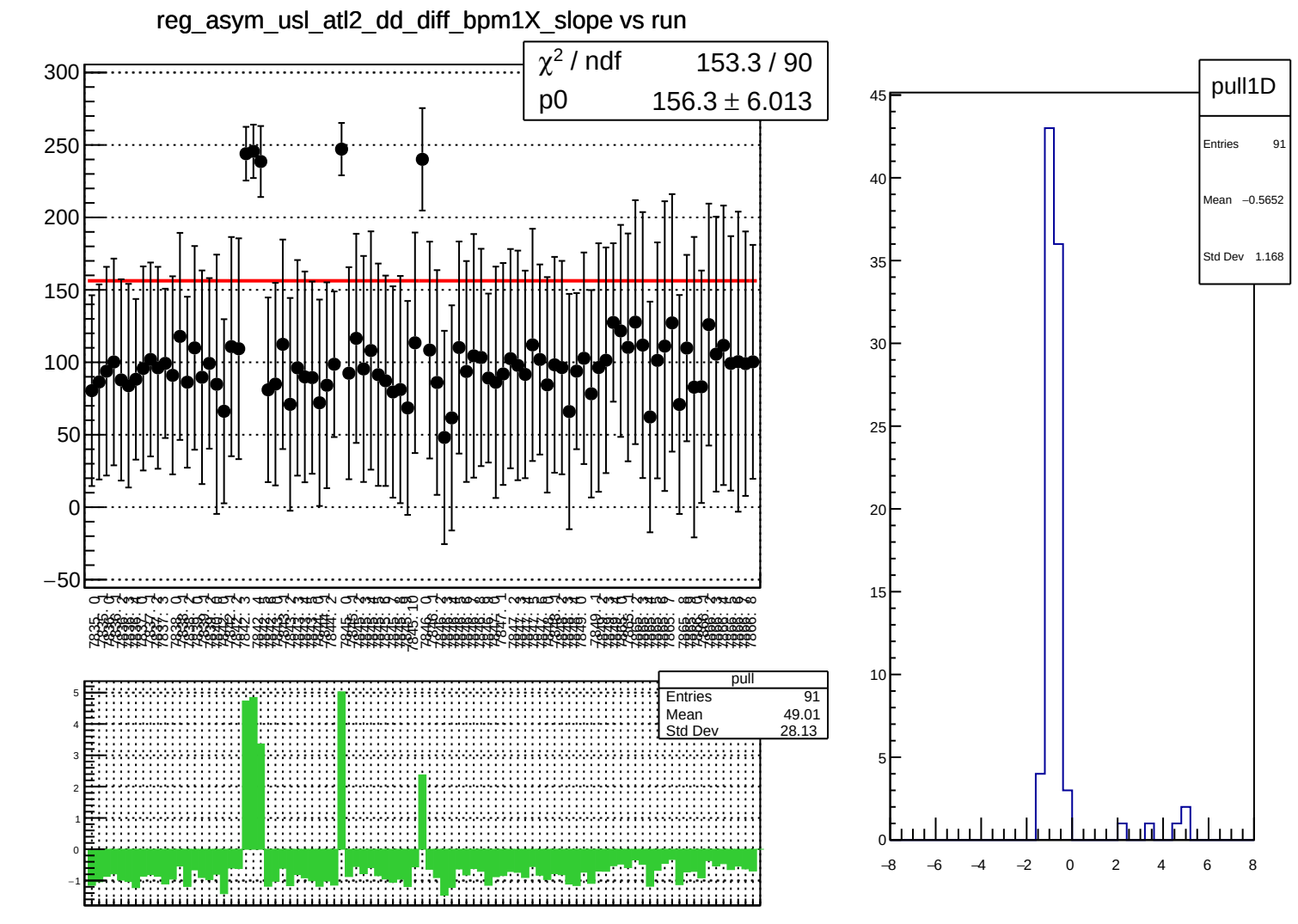

pull1D
Entries 91
Mean 0.4153
Std Dev 1.106

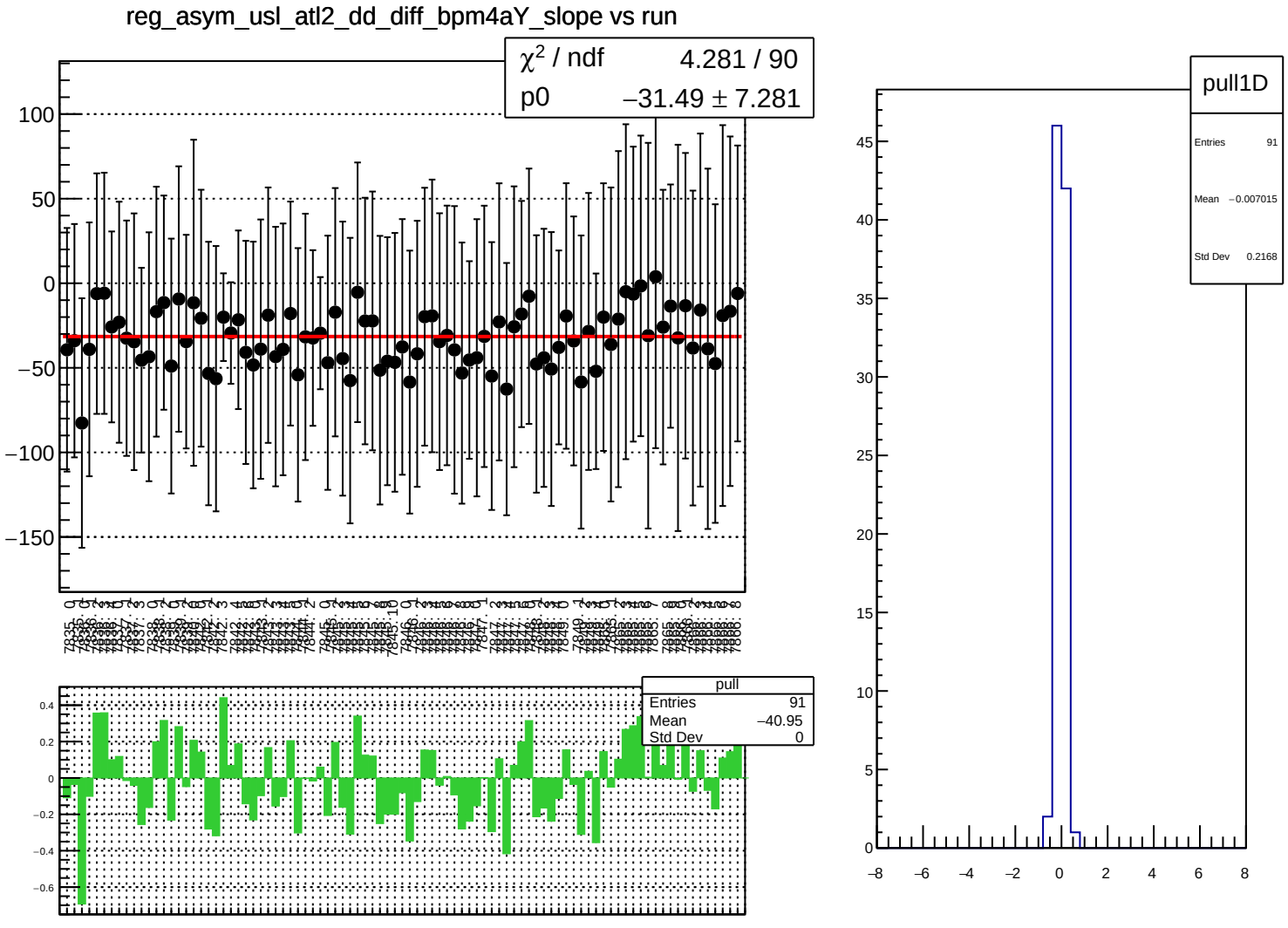

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.411 / 90
p0 42.66 ± 9.015
pull
Entries 91
Mean 99.83
Std Dev 0
pull1D
Entries 91
Mean 0.01237
Std Dev 0.2435

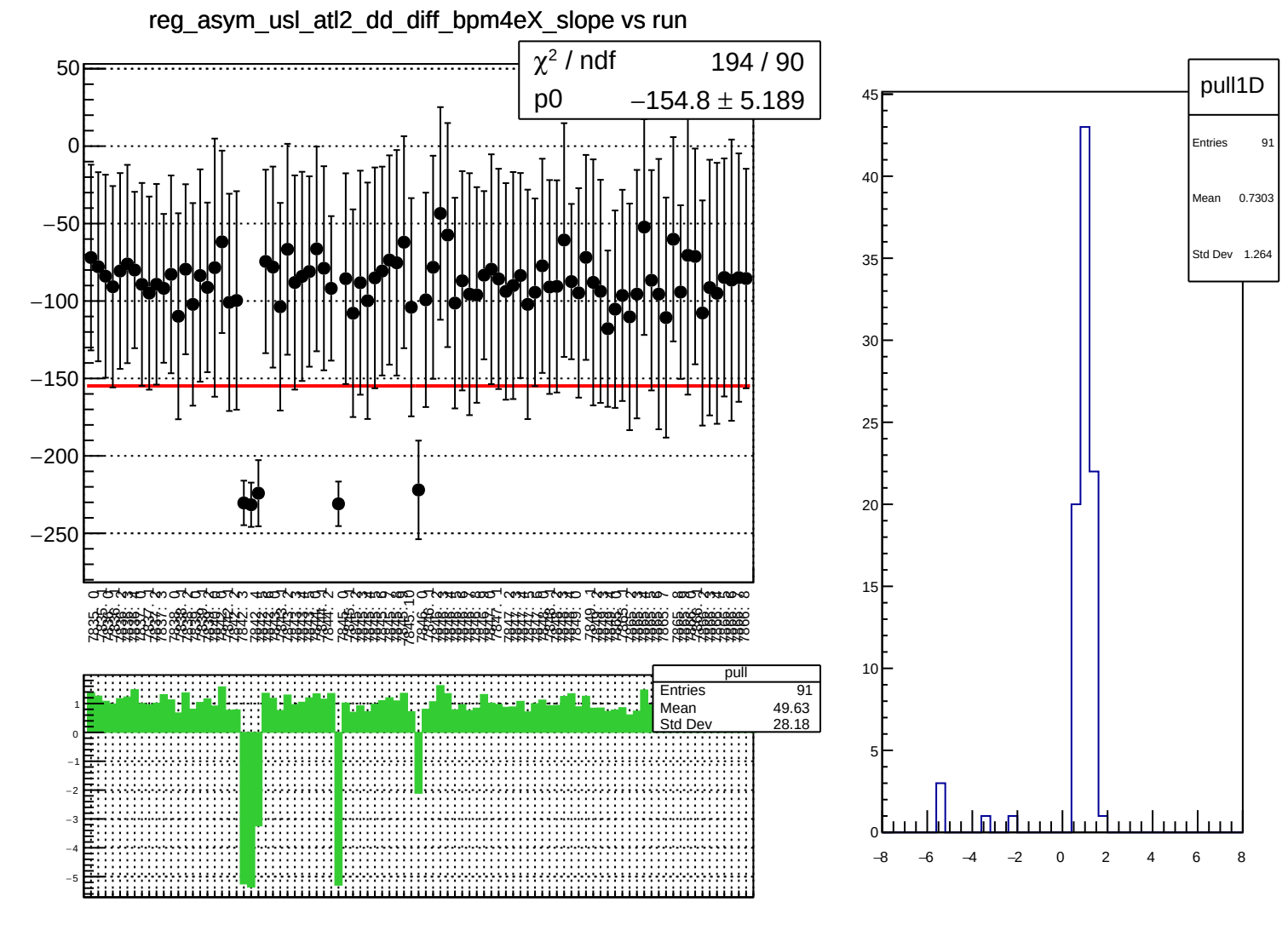

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 160.5 / 90
p0 146.5 ± 6.663
pull
Entries 91
Mean 46.59
Std Dev 27.93
pull1D
Entries 91
Mean −0.5543
Std Dev 1.207

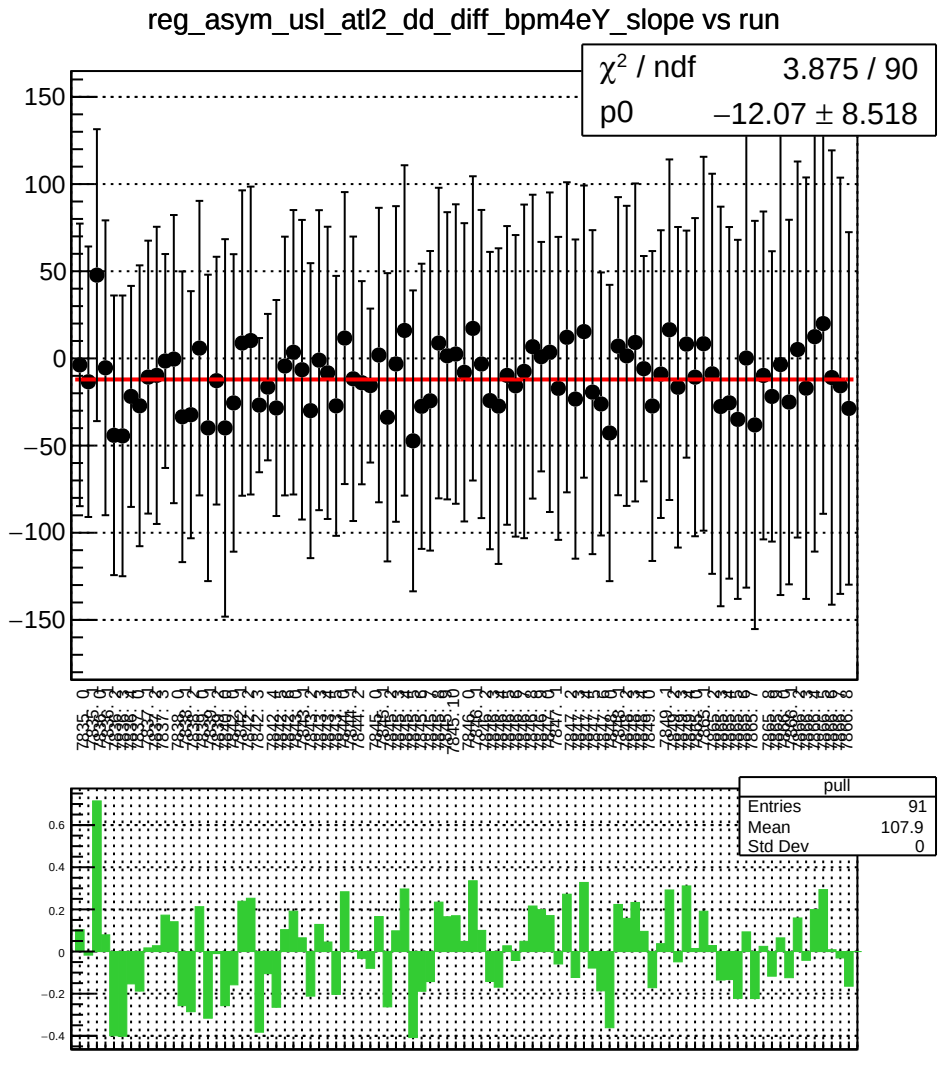

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.423 / 90
p0 25.07 ± 10.43
pull
Entries 91
Mean 170.7
Std Dev 0
pull1D
Entries 91
Mean −0.009479
Std Dev 0.2439

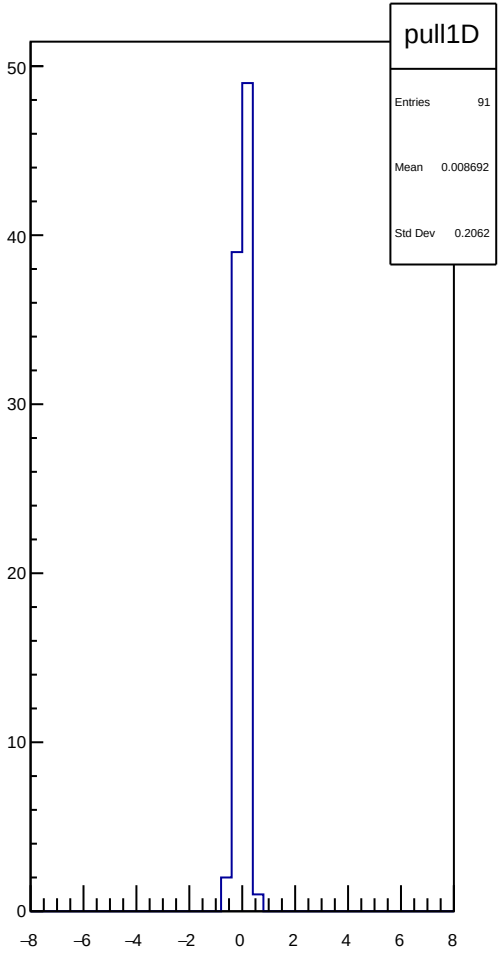

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 125 / 90
p0 −146.5 ± 0.3133
pull
Entries 91
Mean 120.4
Std Dev 0
pull1D
Entries 91
Mean −0.07846
Std Dev 1.169

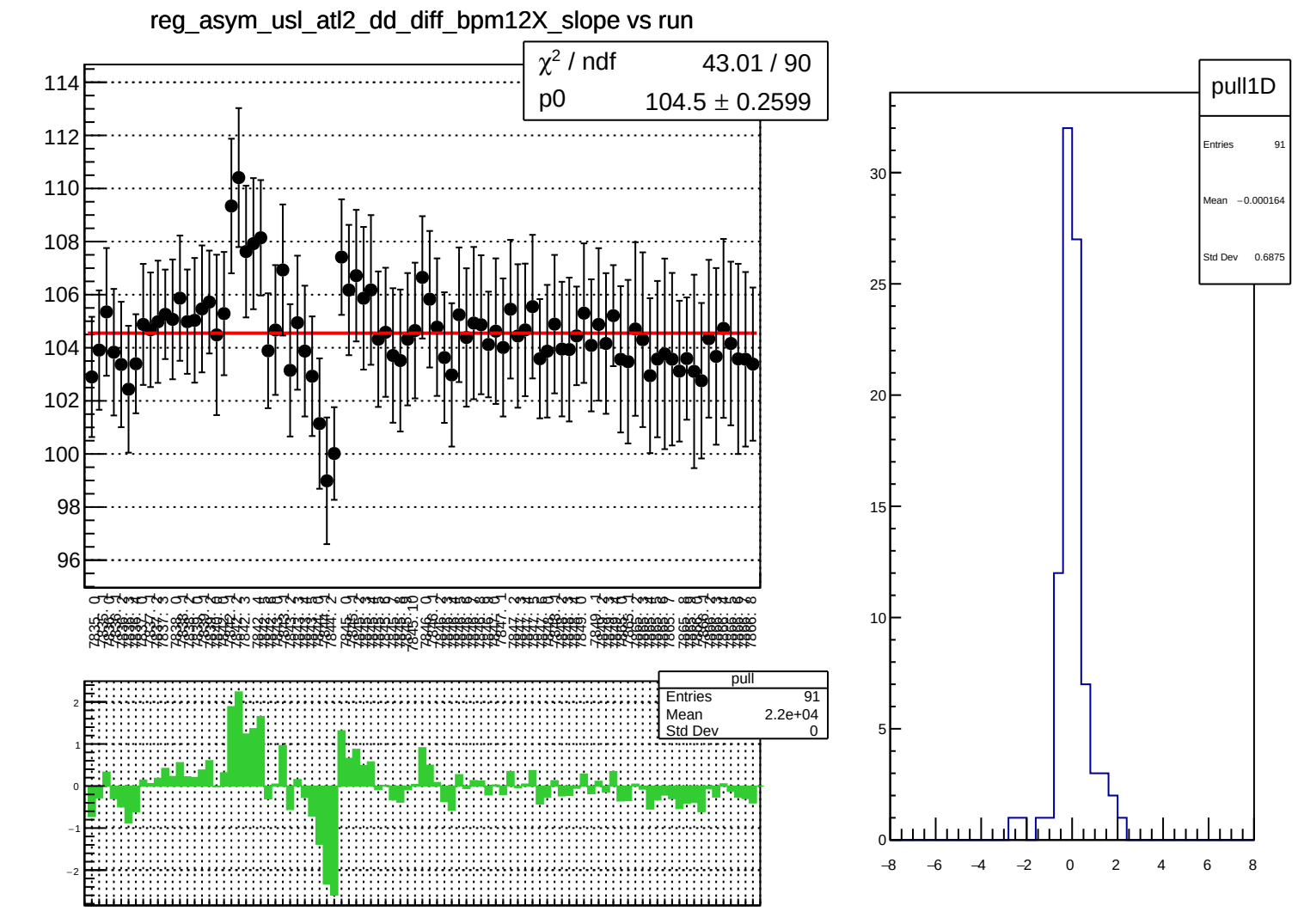

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 153.3 / 90
p0 156.3 ± 6.013
pull
Entries 91
Mean 49.01
Std Dev 28.13
pull1D
Entries 91
Mean −0.5652
Std Dev 1.168

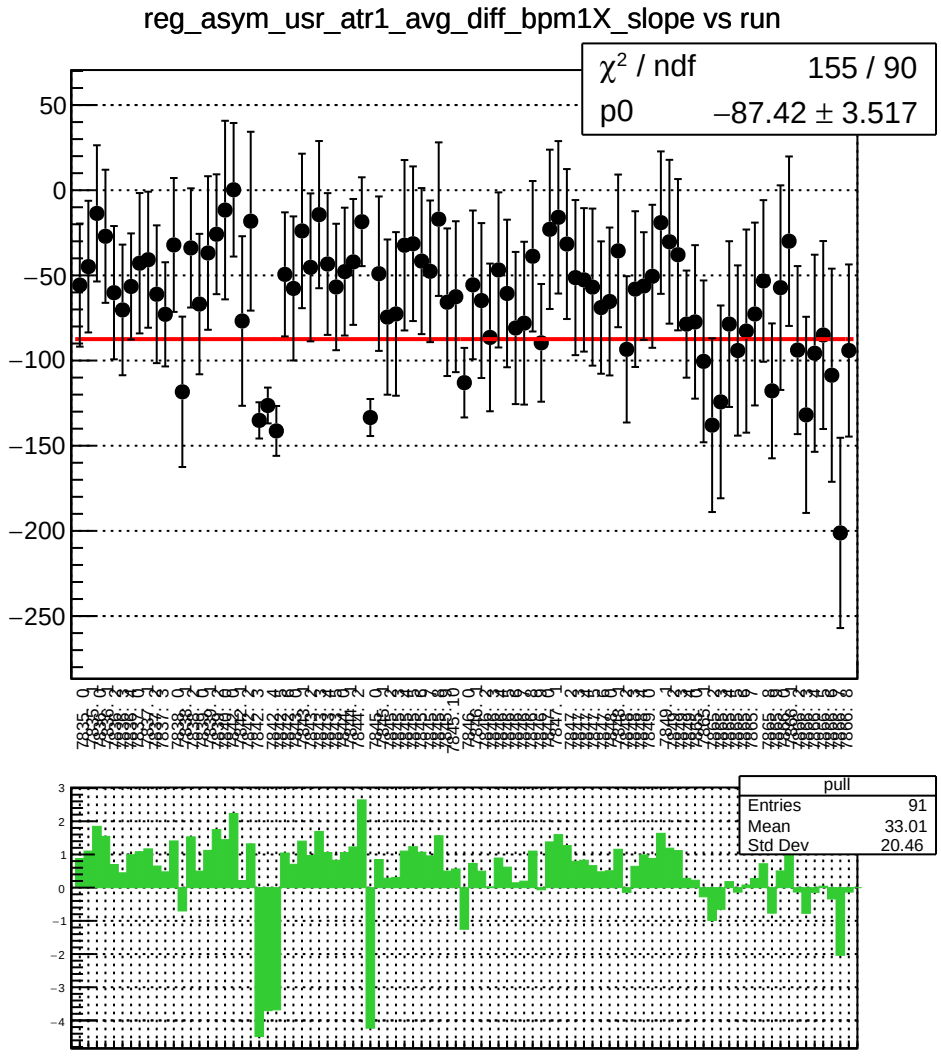

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.281 / 90
p0 −31.49 ± 7.281
pull
Entries 91
Mean −40.95
Std Dev 0
pull1D
Entries 91
Mean −0.007015
Std Dev 0.2168

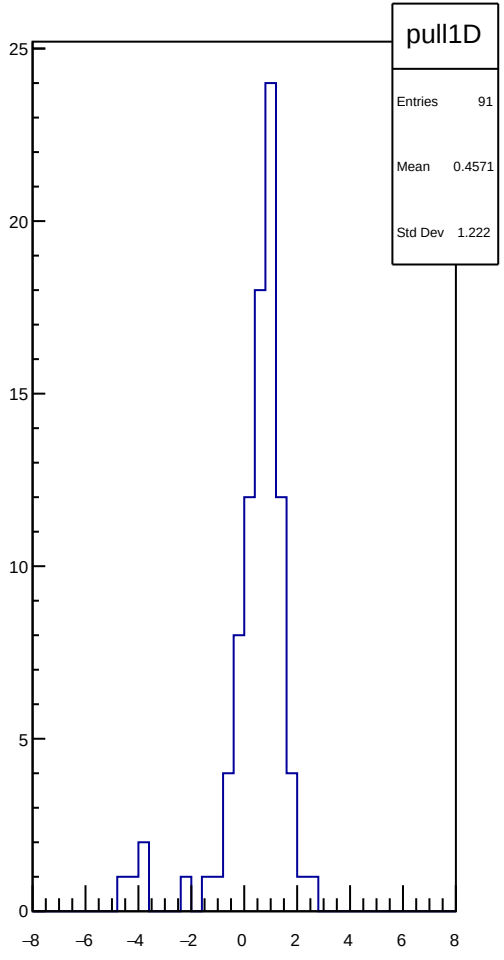

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 194 / 90
p0 −154.8 ± 5.189
pull
Entries 91
Mean 49.63
Std Dev 28.18
pull1D
Entries 91
Mean 0.7303
Std Dev 1.264

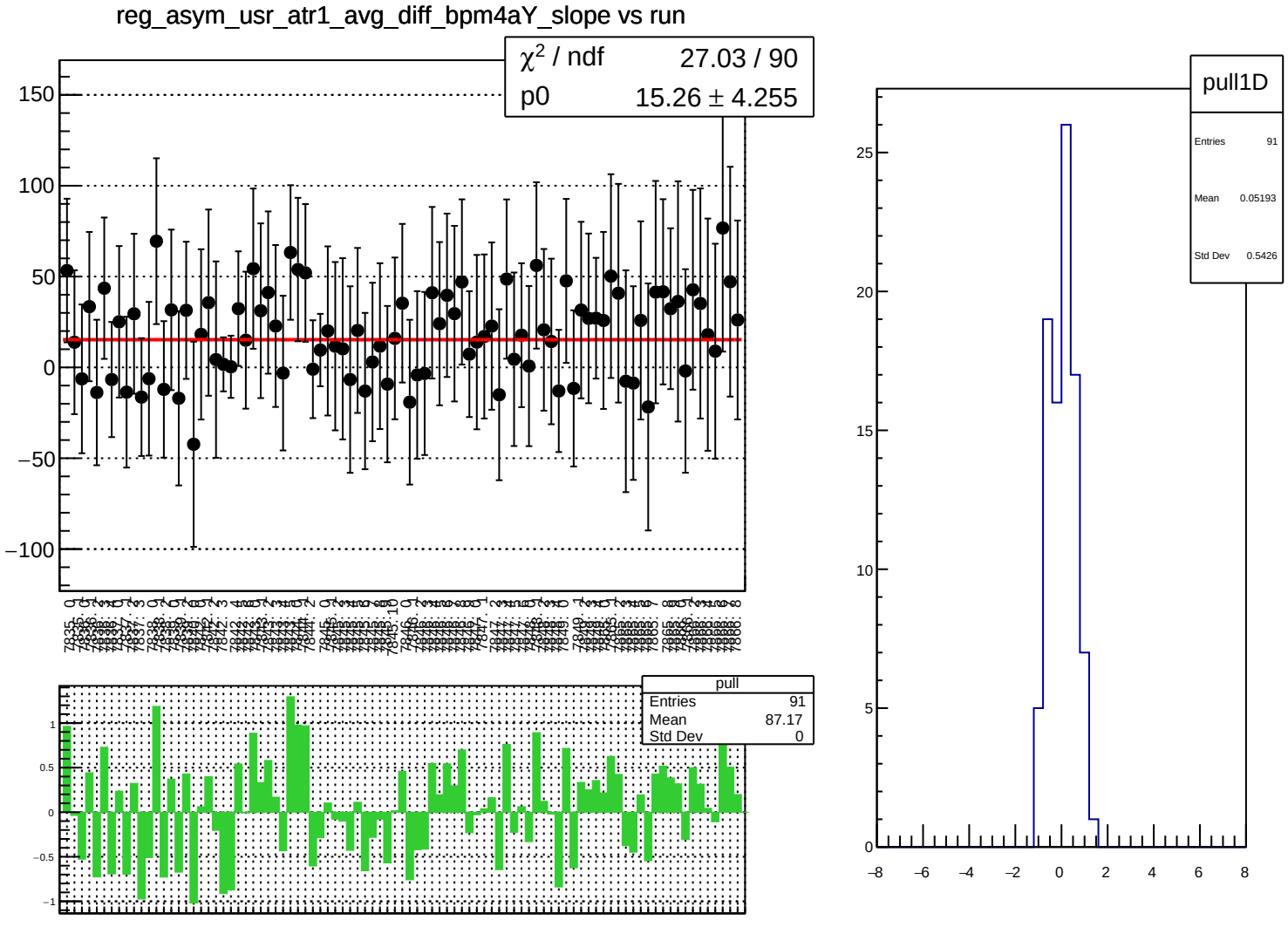

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.875 / 90
p0 −12.07 ± 8.518
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 107.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

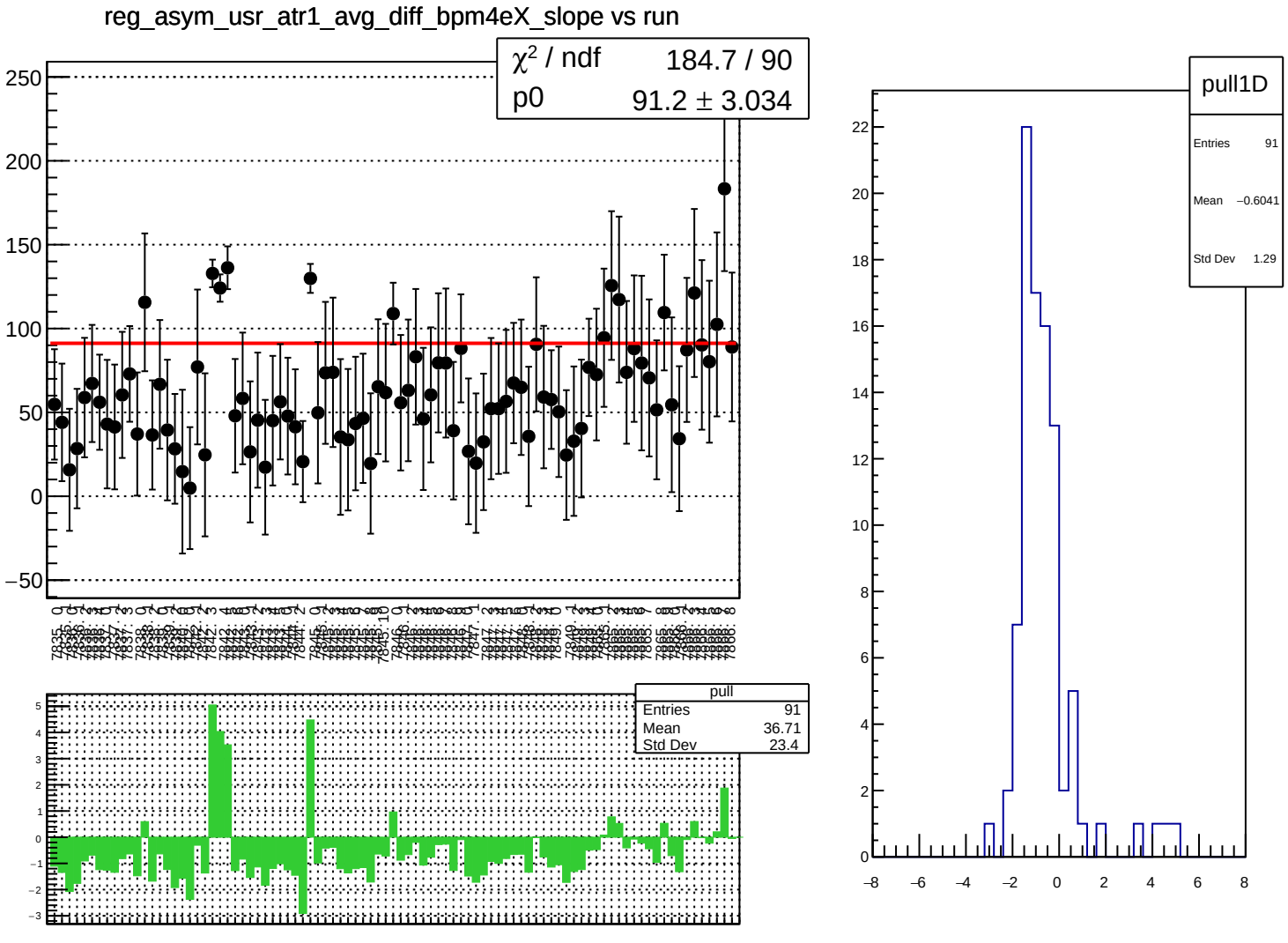

pull1D
Entries 91
Mean 0.008692
Std Dev 0.2062
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

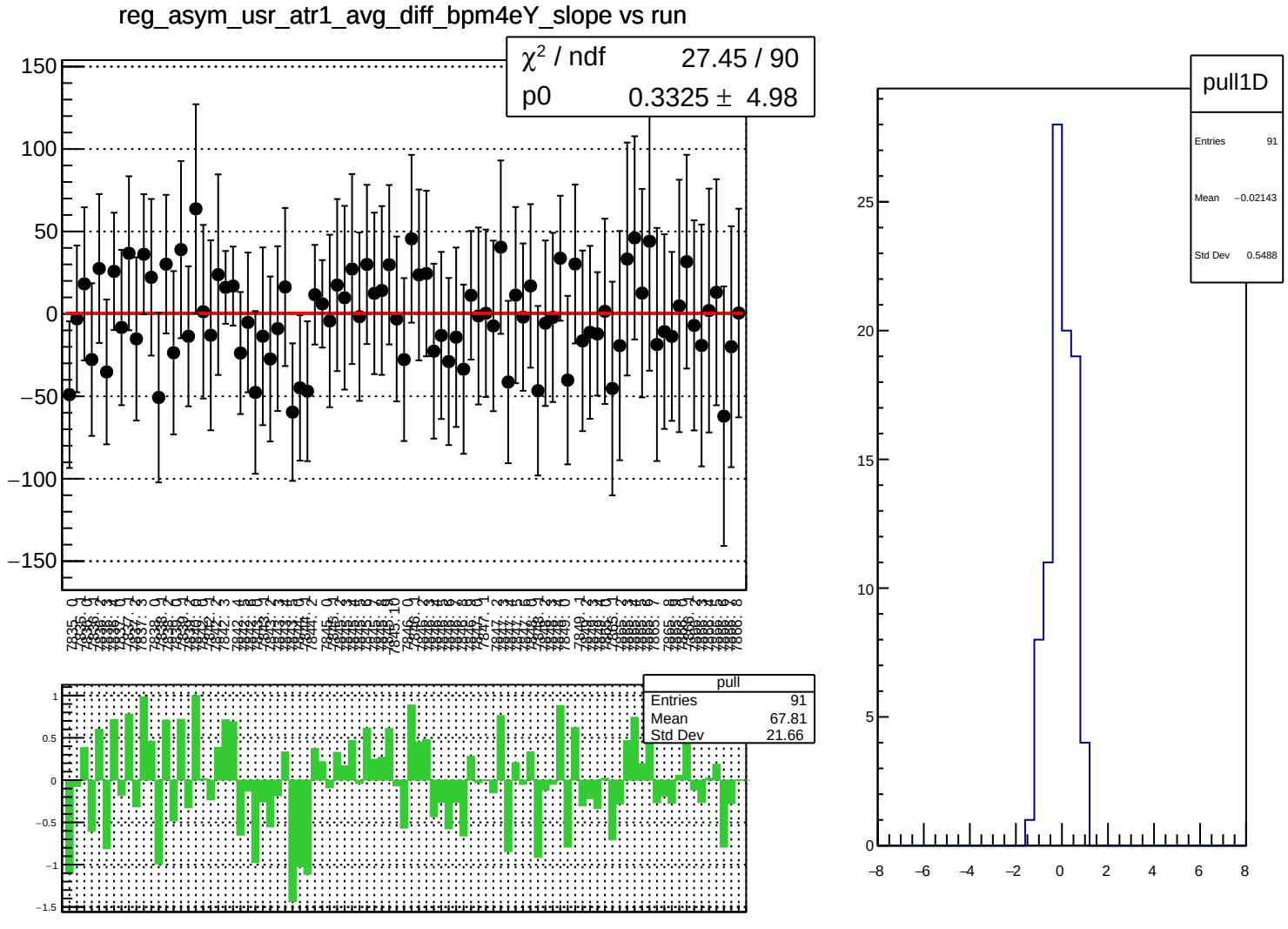

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 43.01 / 90
p0 104.5 ± 0.2599
pull
Entries 91
Mean 2.2e+04
Std Dev 0
pull1D
Entries 91
Mean −0.000164
Std Dev 0.6875

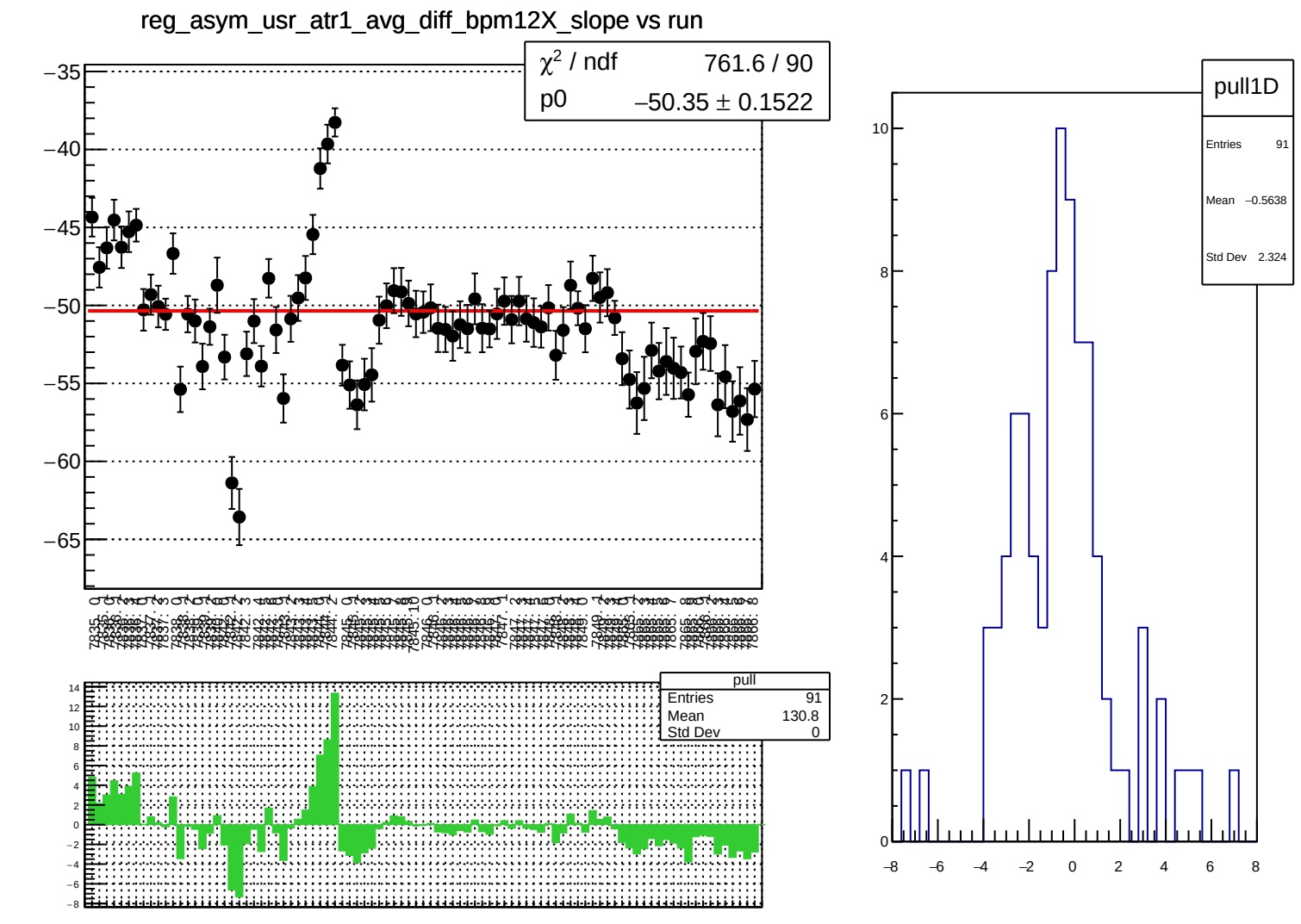

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 155 / 90
p0 −87.42 ± 3.517
pull
Entries 91
Mean 33.01
Std Dev 20.46

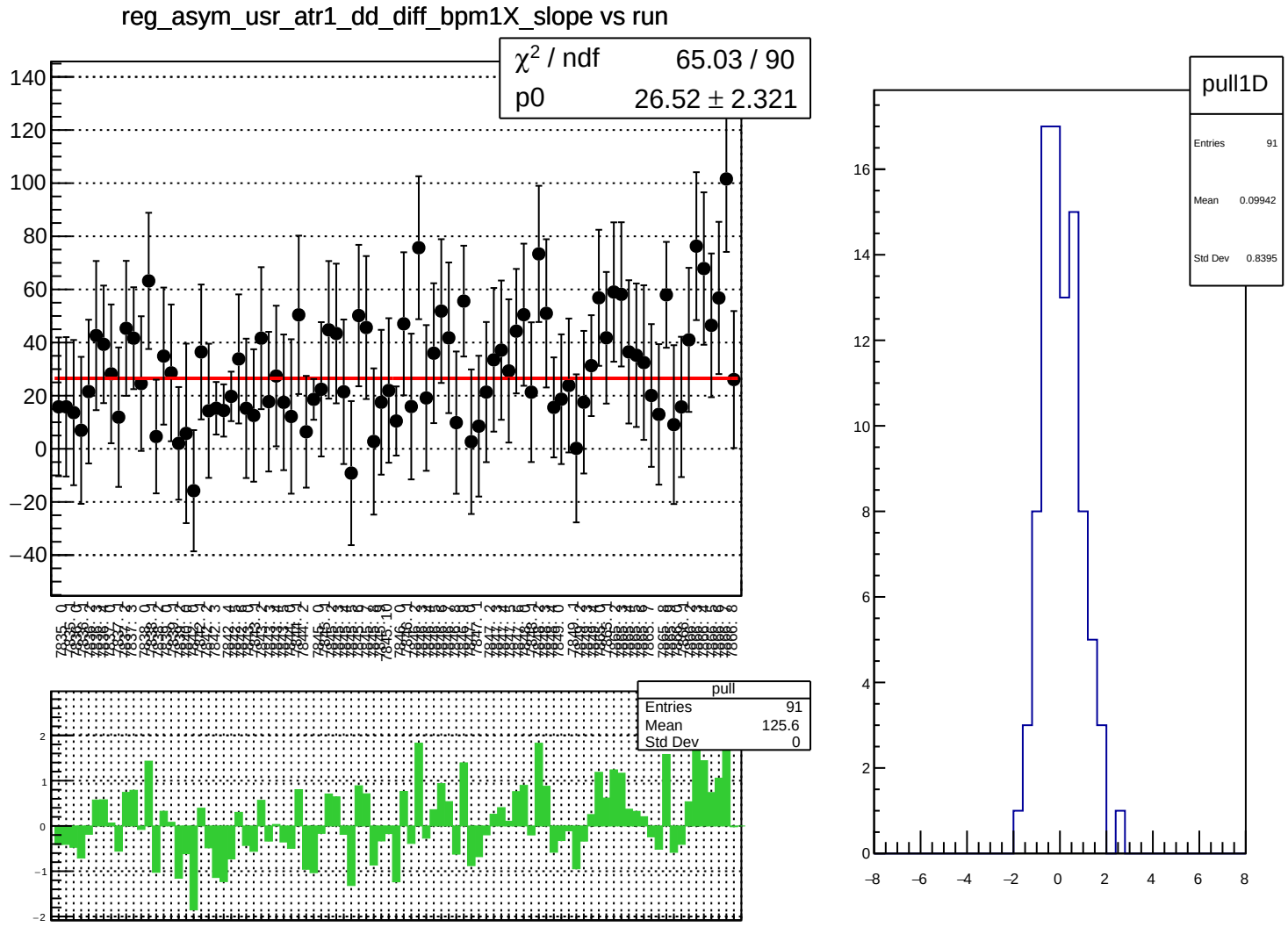

pull1D
Entries 91
Mean 0.4571
Std Dev 1.222

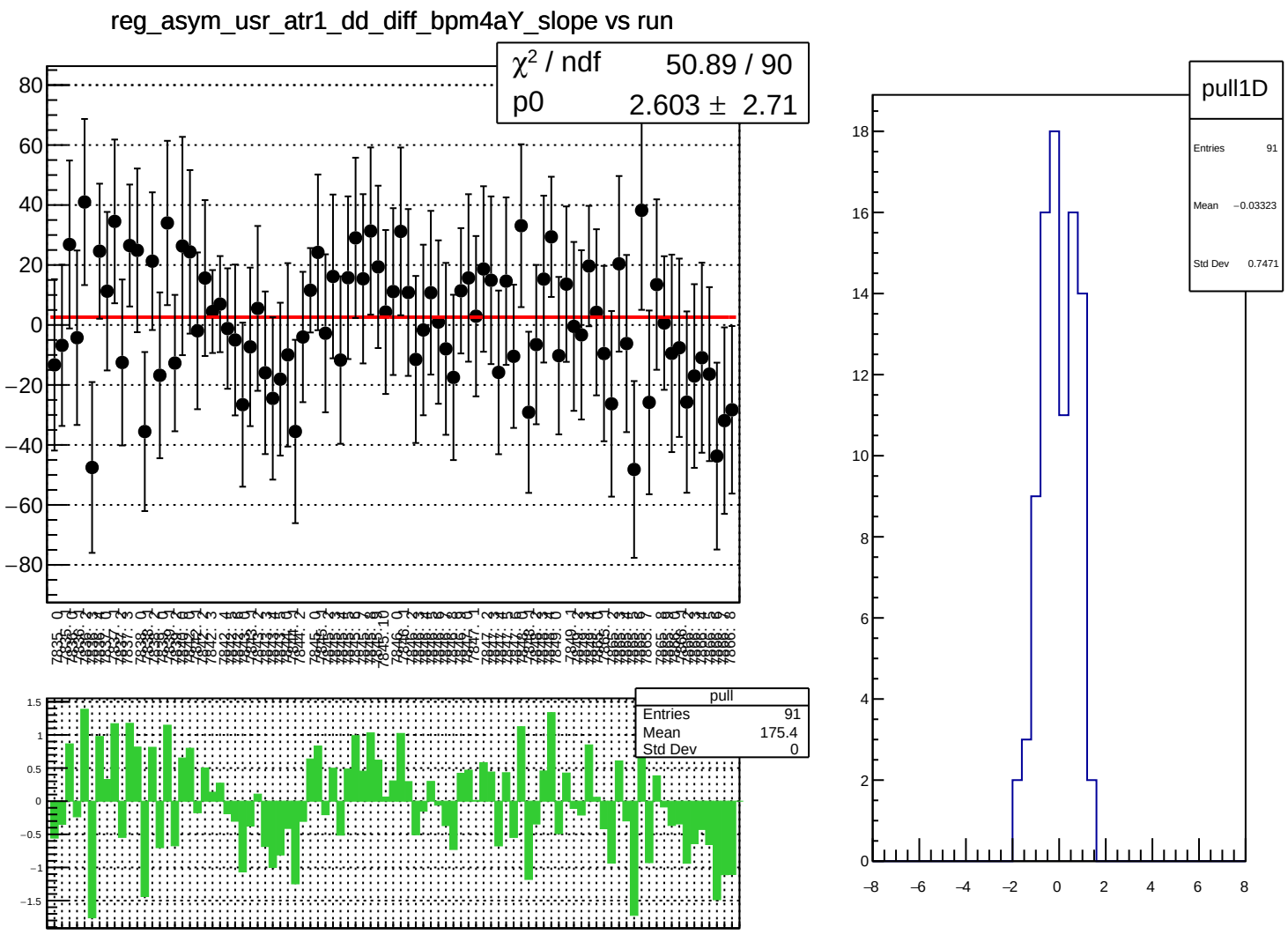

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.03 / 90
p0 15.26 ± 4.255
150
100
50
0
−50
−100
pull
Entries 91
Mean 87.17
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.05193
Std Dev 0.5426
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

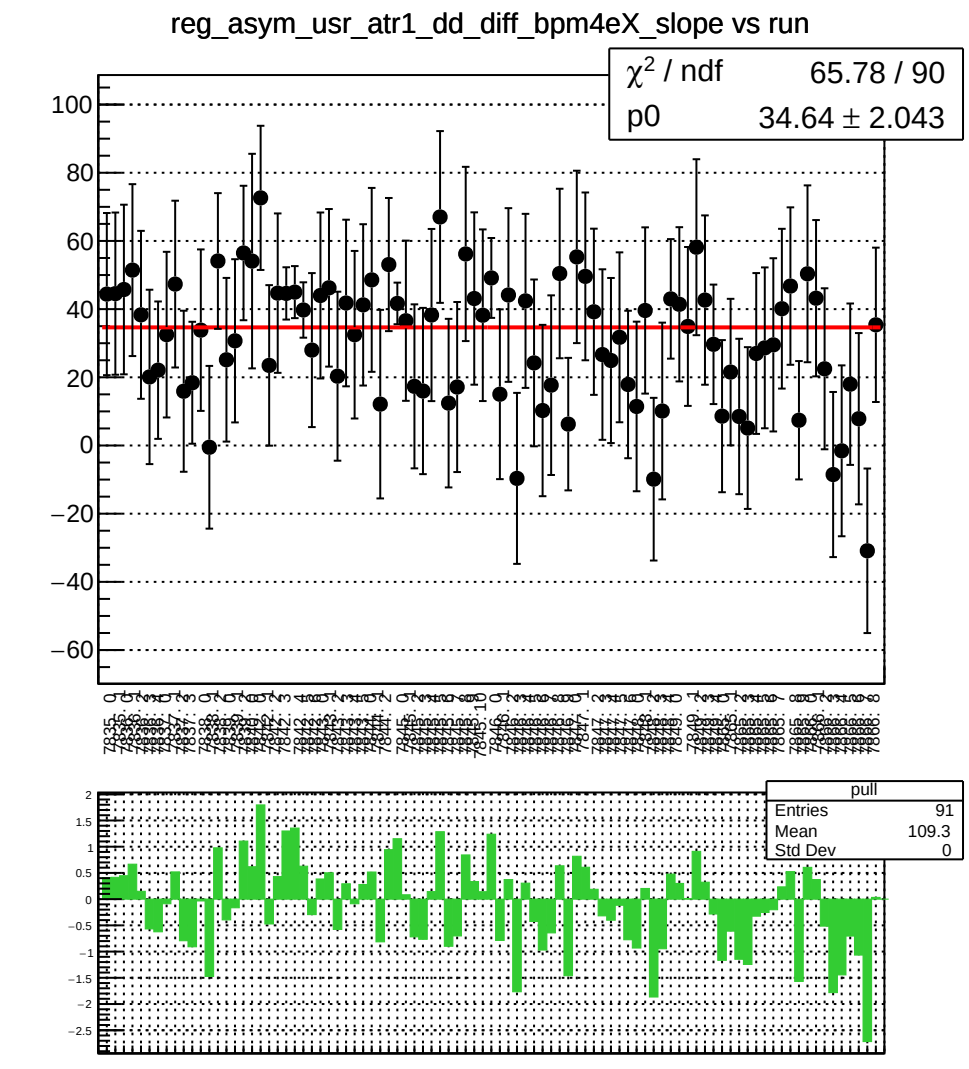

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 184.7 / 90
p0 91.2 ± 3.034
pull
Entries 91
Mean 36.71
Std Dev 23.4
pull1D
Entries 91
Mean −0.6041
Std Dev 1.29

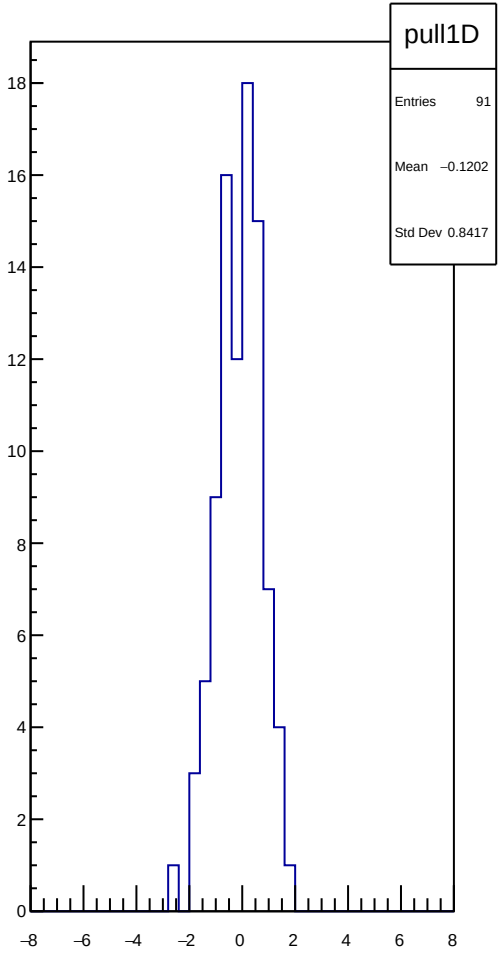

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.45 / 90
p0 0.3325 ± 4.98
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 67.81
Std Dev 21.66
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.02143
Std Dev 0.5488
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

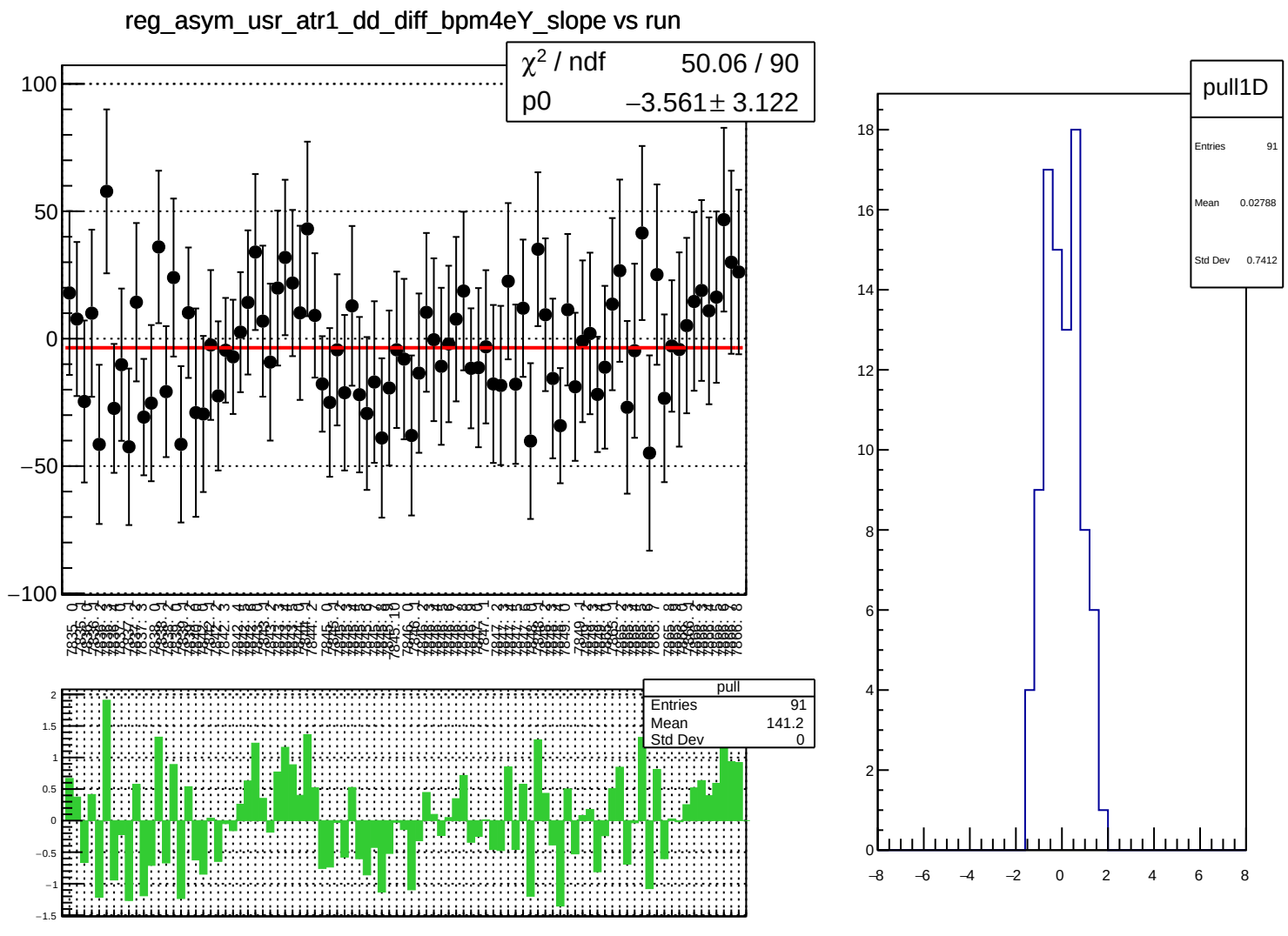

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 761.6 / 90
p0 −50.35 ± 0.1522
pull
Entries 91
Mean 130.8
Std Dev 0
pull1D
Entries 91
Mean −0.5638
Std Dev 2.324

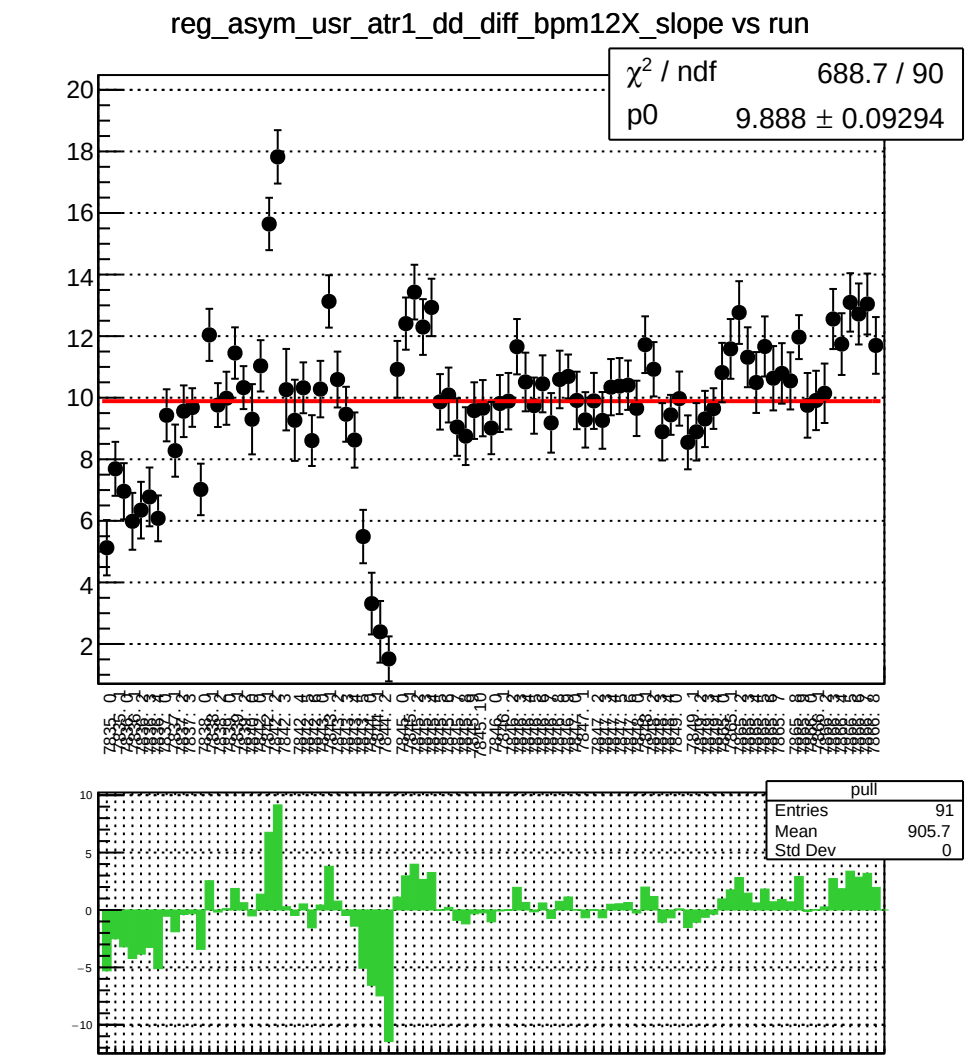

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 65.03 / 90
p0 26.52 ± 2.321
pull
Entries 91
Mean 125.6
Std Dev 0
pull1D
Entries 91
Mean 0.09942
Std Dev 0.8395

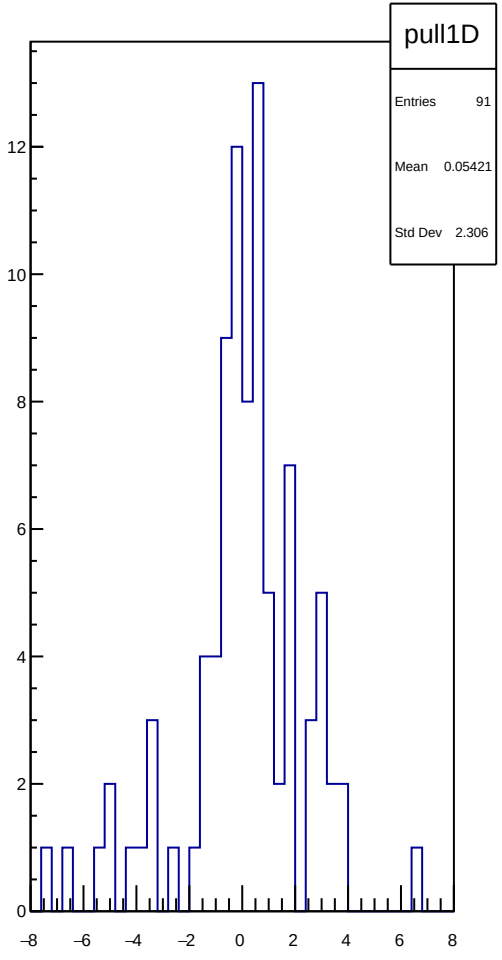

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.89 / 90
p0 2.603 ± 2.71
pull
Entries 91
Mean 175.4
Std Dev 0
pull1D
Entries 91
Mean −0.03323
Std Dev 0.7471

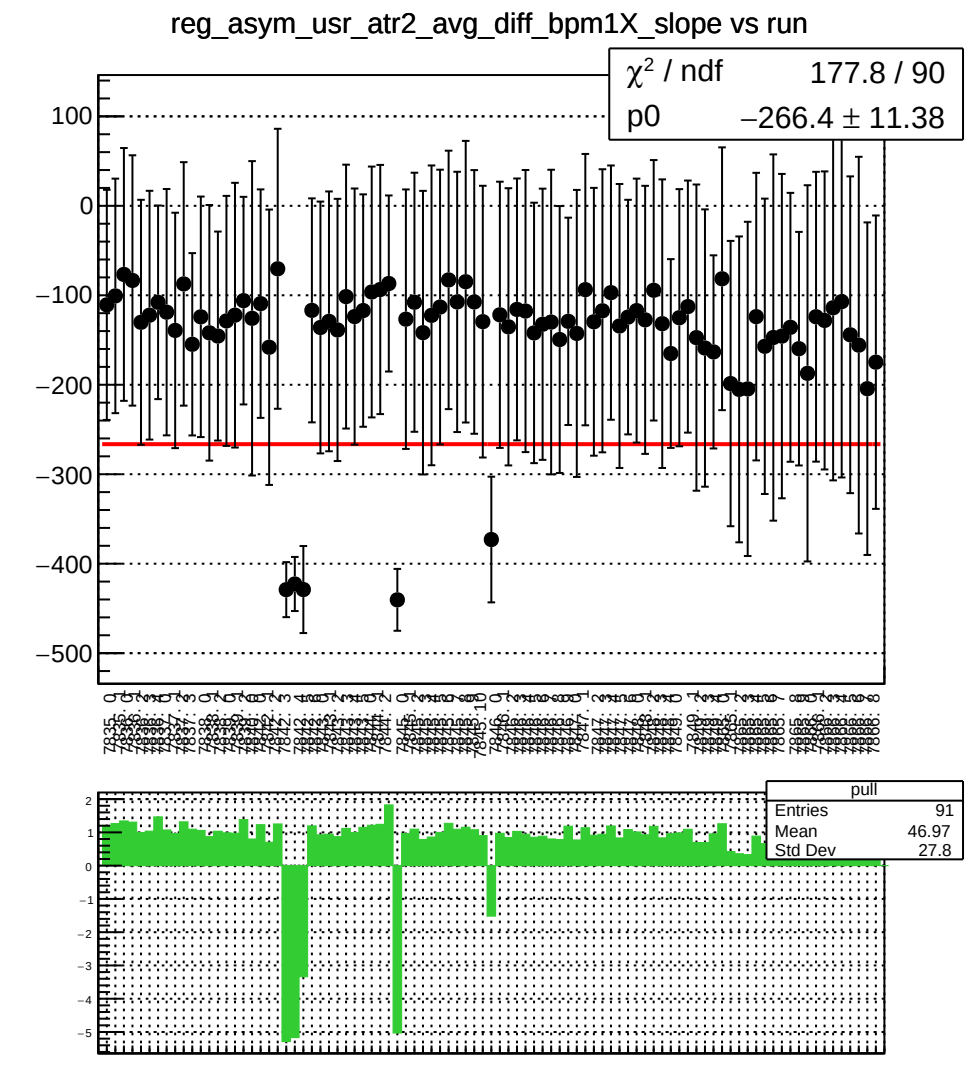

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.78 / 90
p0 34.64 ± 2.043
pull
Entries 91
Mean 109.3
Std Dev 0

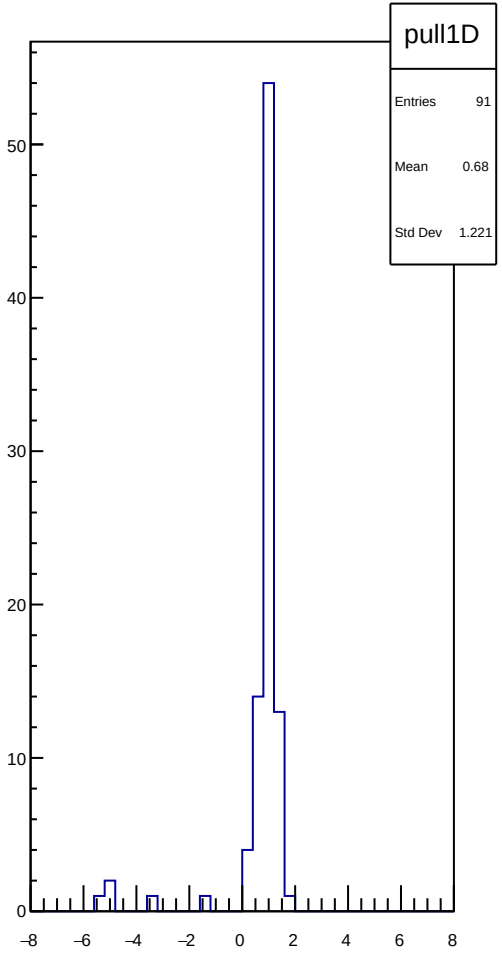

pull1D
Entries 91
Mean −0.1202
Std Dev 0.8417

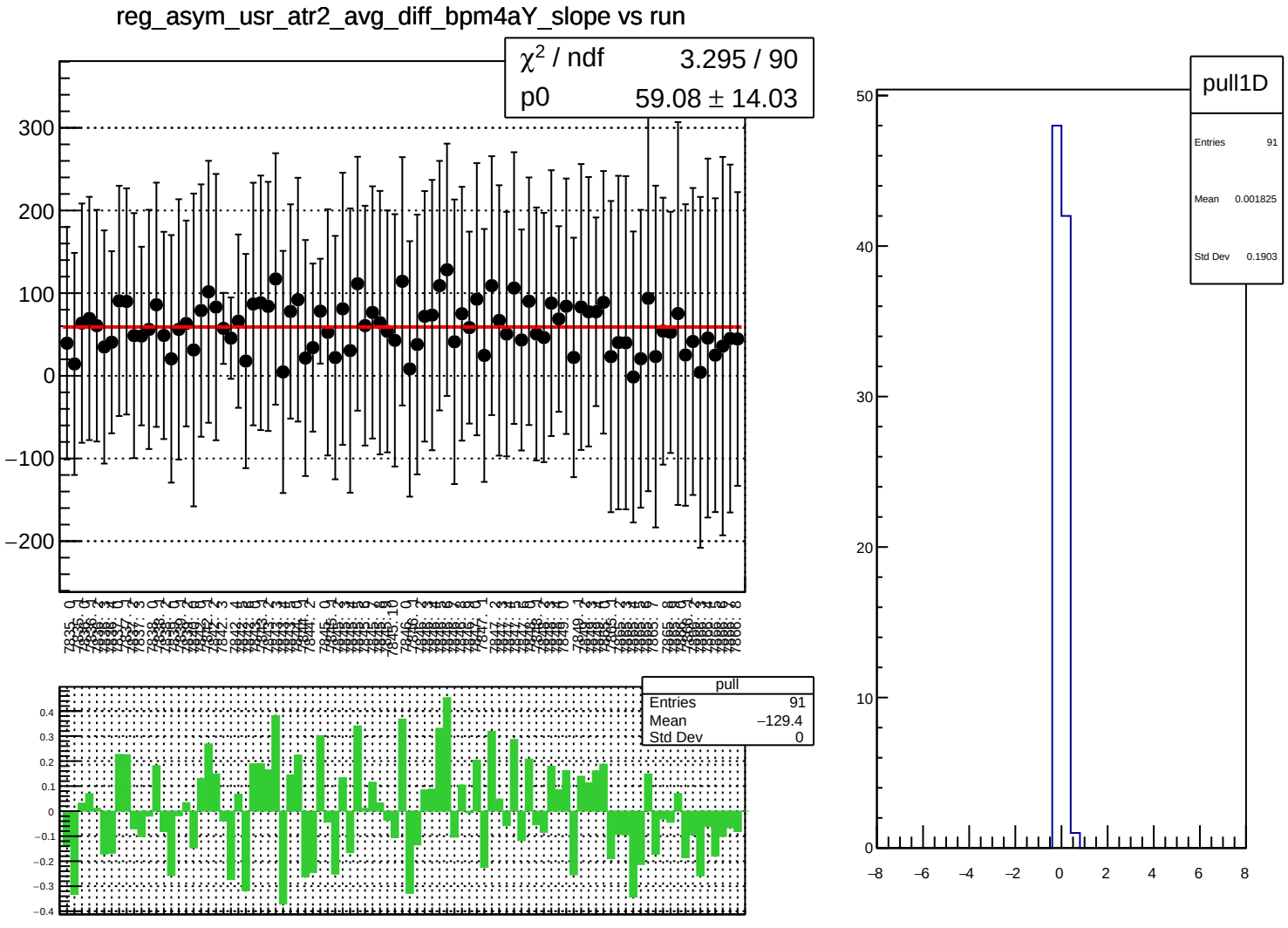

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.06 / 90
p0 −3.561 ± 3.122
pull
Entries 91
Mean 141.2
Std Dev 0
pull1D
Entries 91
Mean 0.02788
Std Dev 0.7412

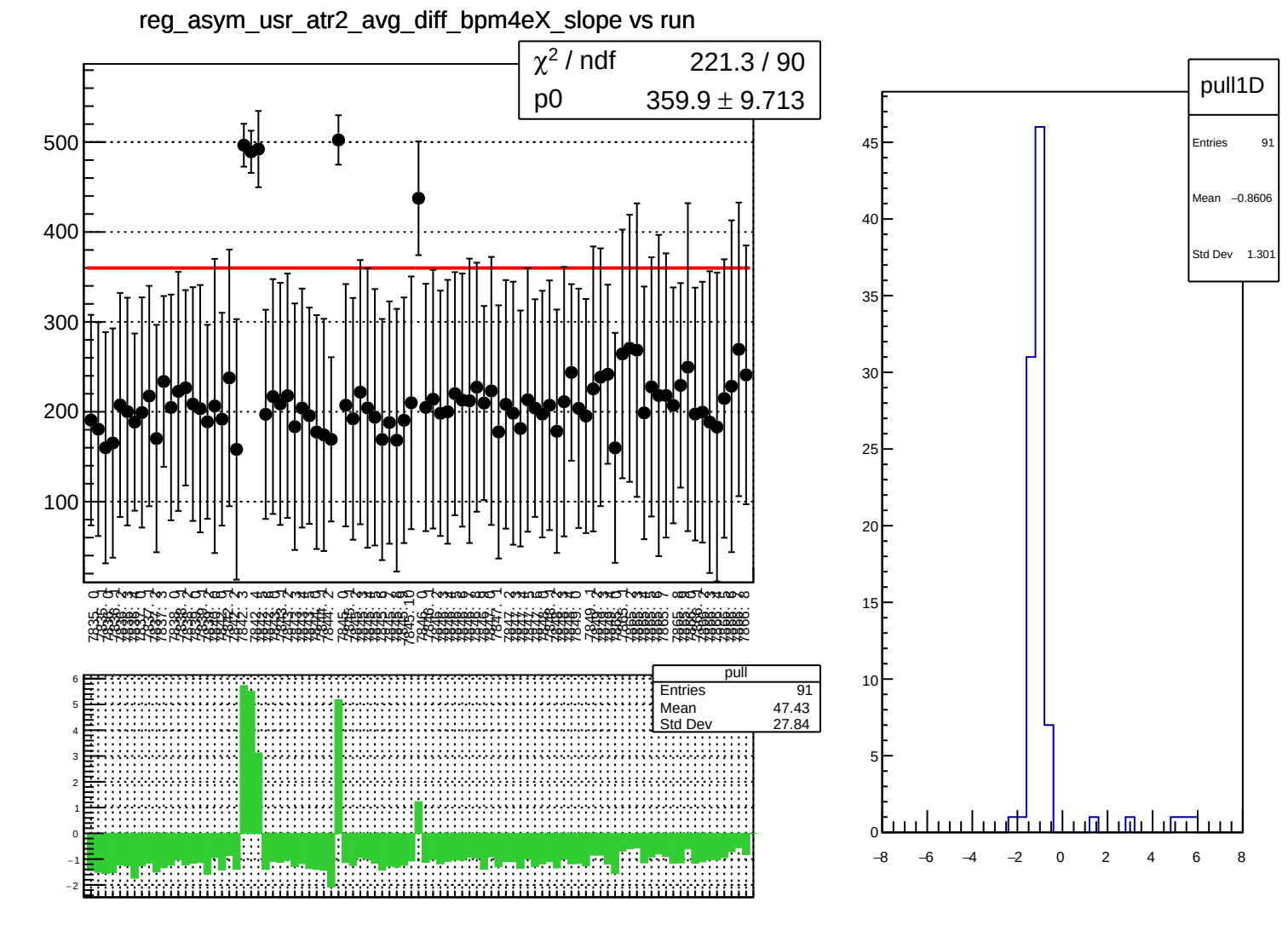

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 688.7 / 90
p0 9.888 ± 0.09294
pull
Entries 91
Mean 905.7
Std Dev 0

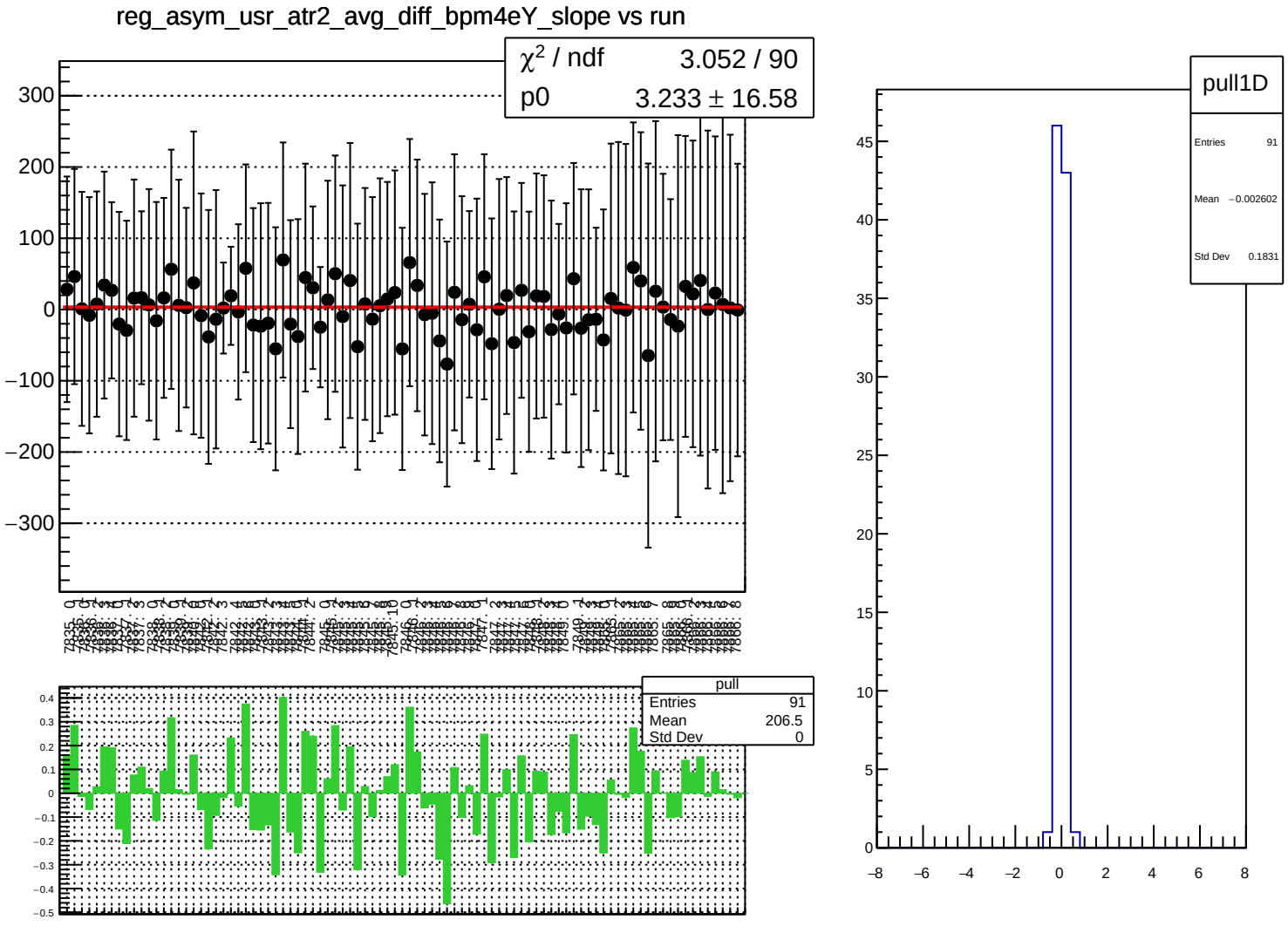

pull1D
Entries 91
Mean 0.05421
Std Dev 2.306

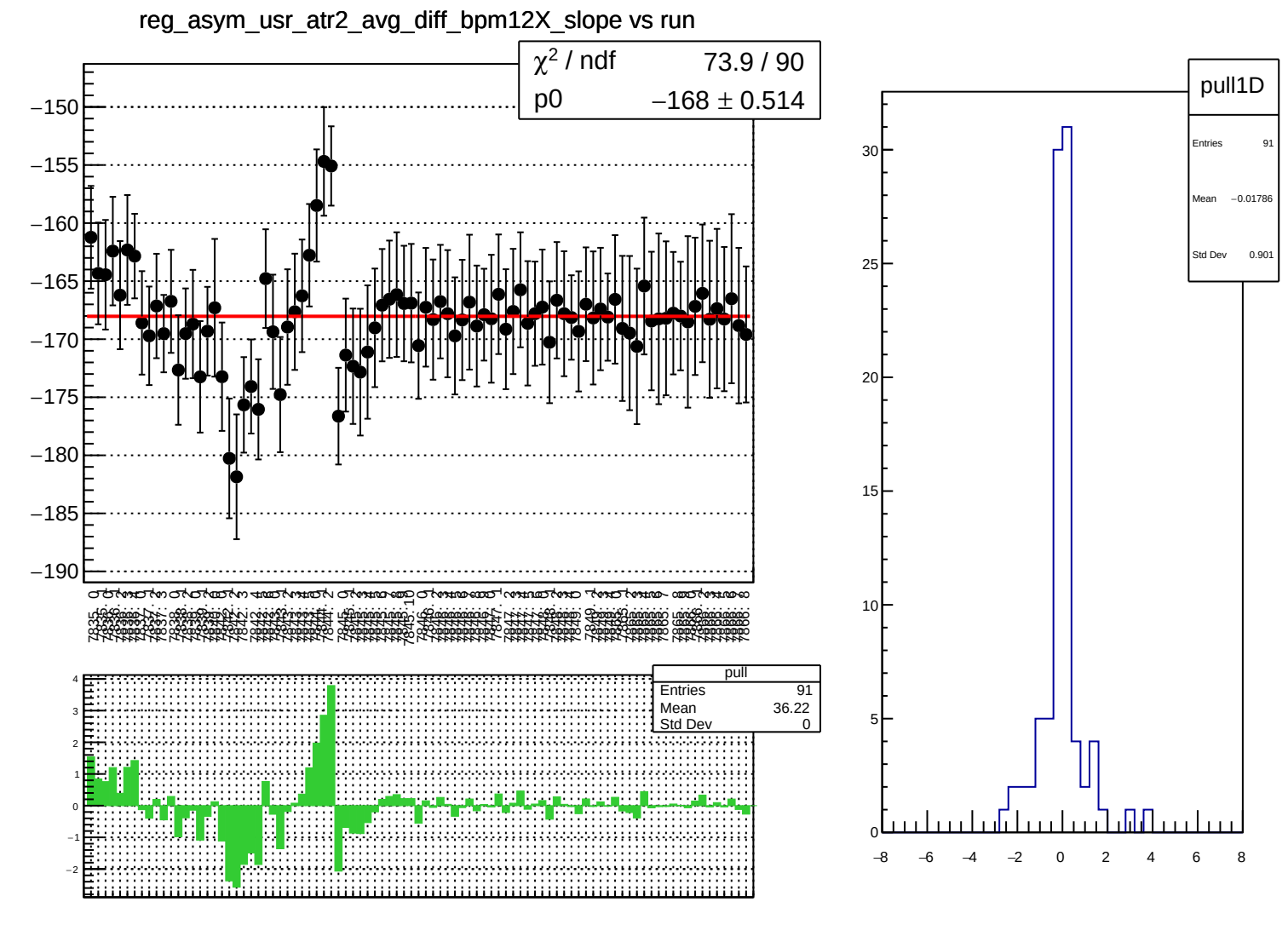

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 177.8 / 90
p0 −266.4 ± 11.38
100
0
−100
−200
−300
−400
−500
pull
Entries 91
Mean 46.97
Std Dev 27.8
2
1
0
−1
−2
−3
−4
−5

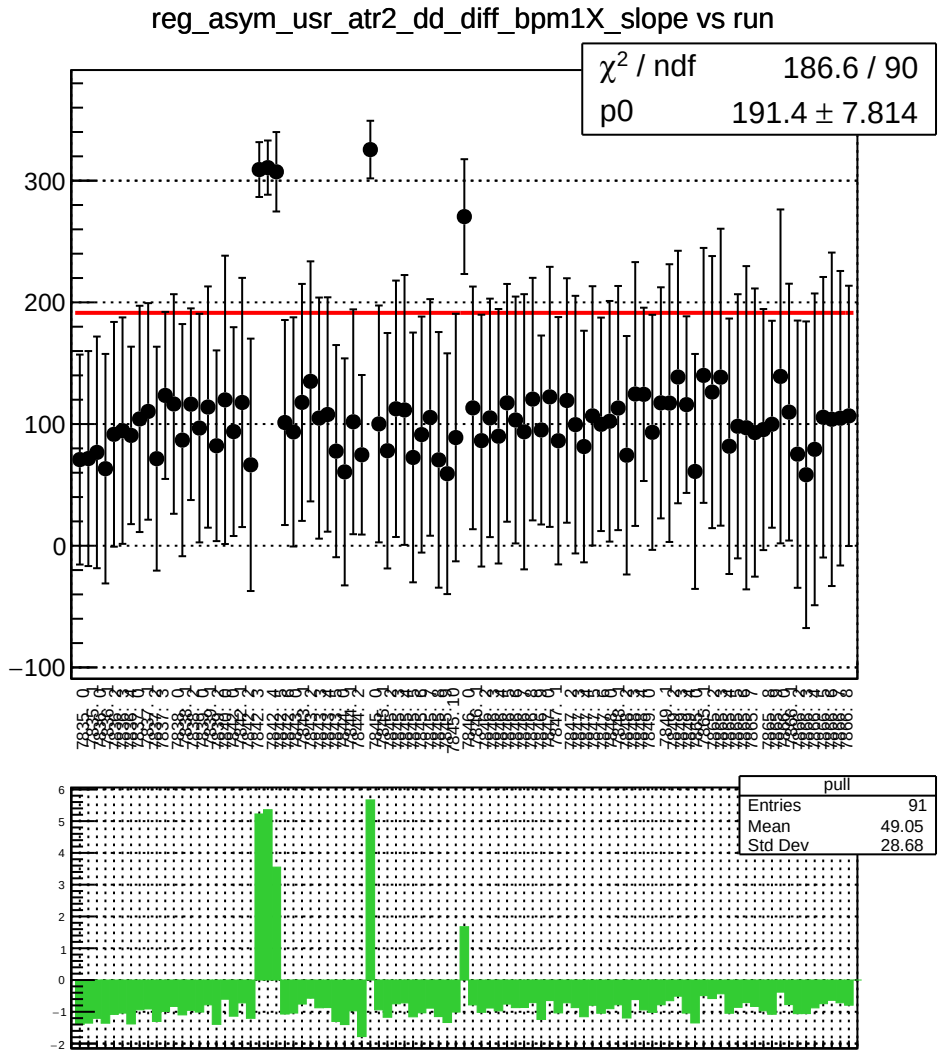

pull1D
Entries 91
Mean 0.68
Std Dev 1.221
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

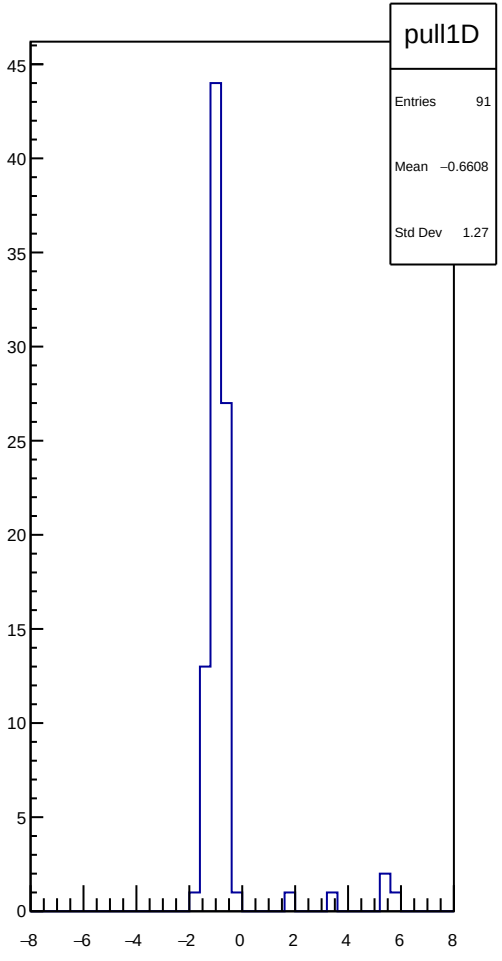

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.295 / 90
p0 59.08 ± 14.03
pull
Entries 91
Mean −129.4
Std Dev 0
pull1D
Entries 91
Mean 0.001825
Std Dev 0.1903

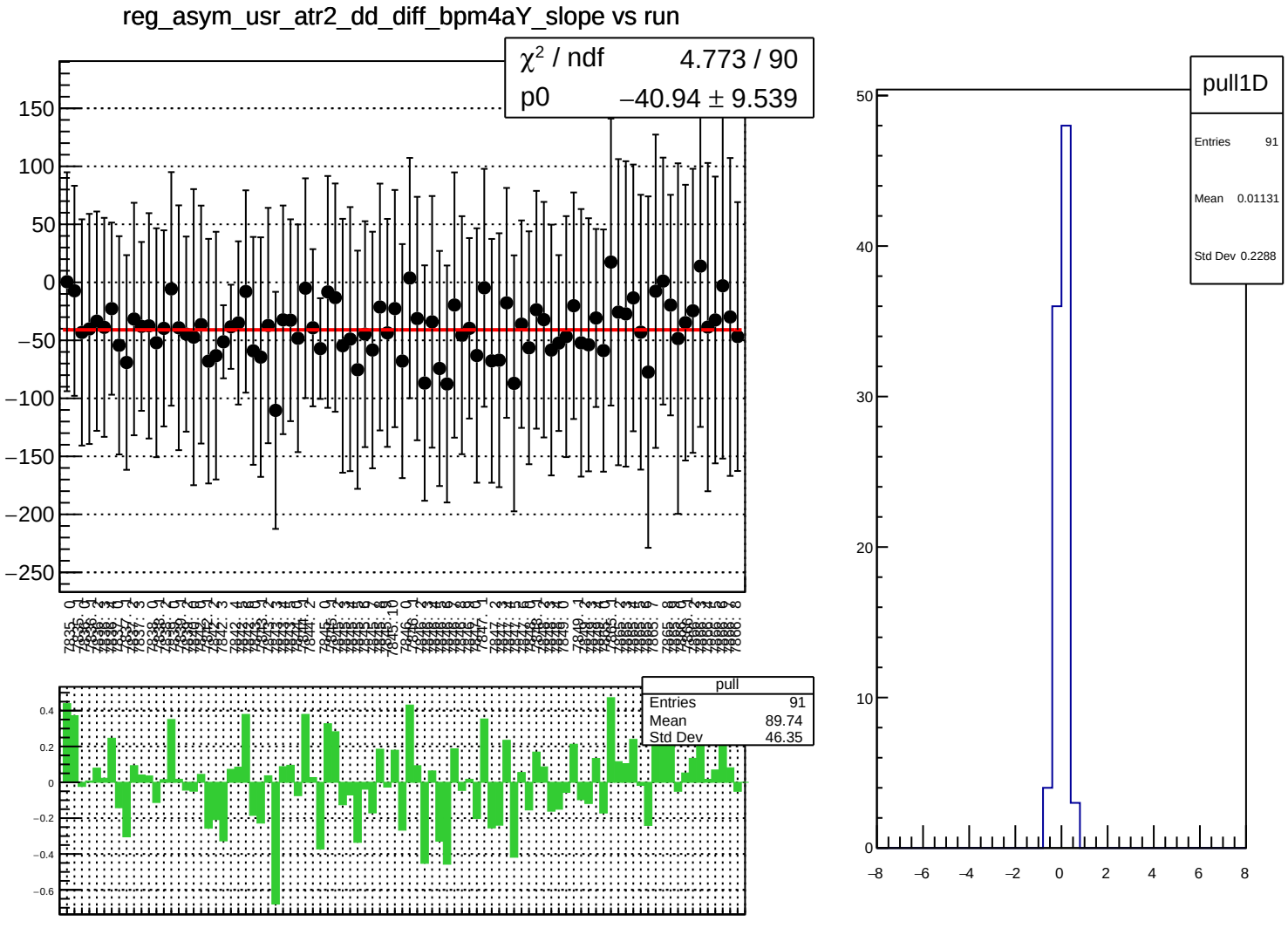

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 221.3 / 90
p0 359.9 ± 9.713
pull
Entries 91
Mean 47.43
Std Dev 27.84
pull1D
Entries 91
Mean −0.8606
Std Dev 1.301

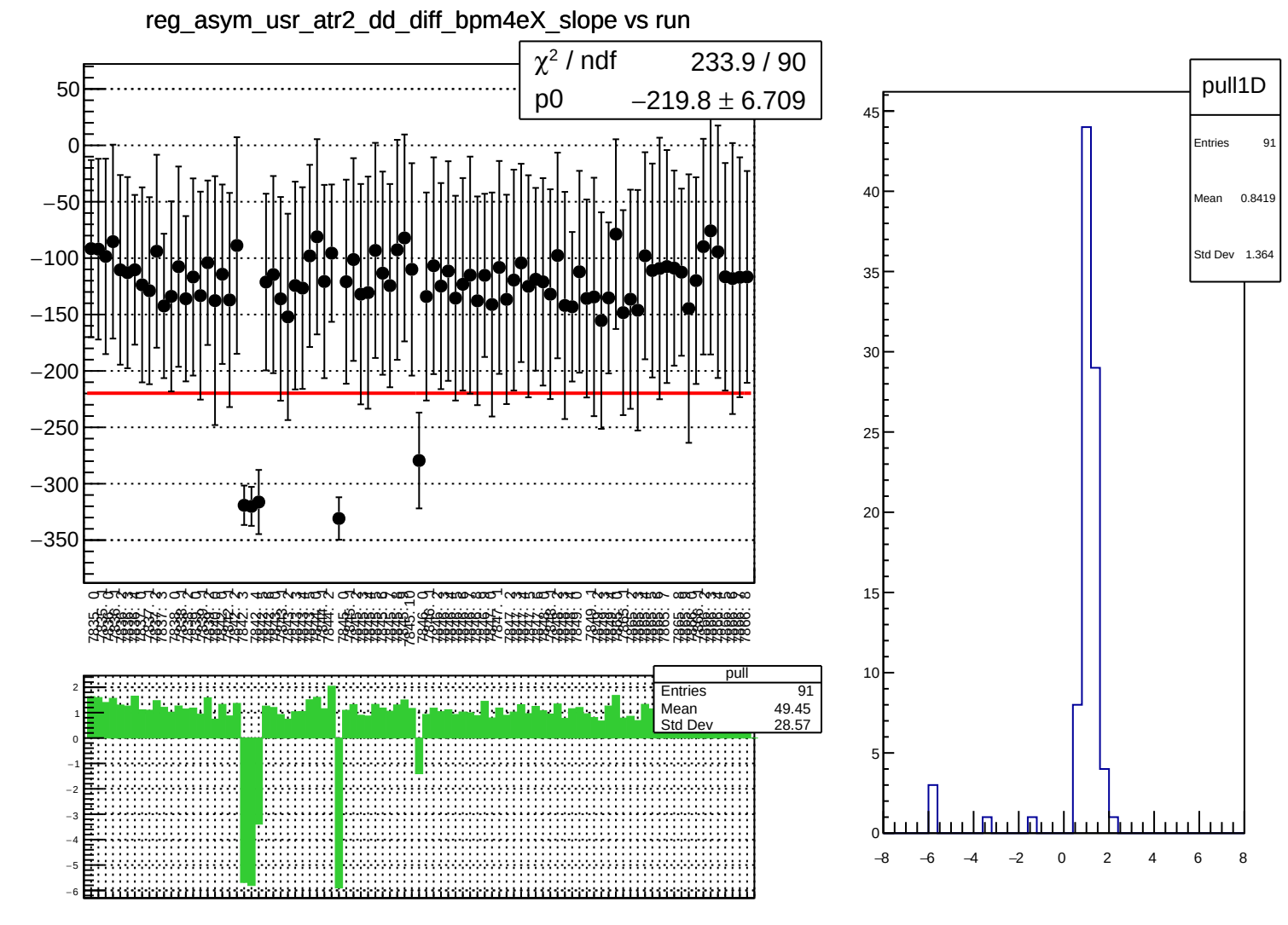

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.052 / 90
p0 3.233 ± 16.58
pull
Entries 91
Mean 206.5
Std Dev 0
pull1D
Entries 91
Mean −0.002602
Std Dev 0.1831

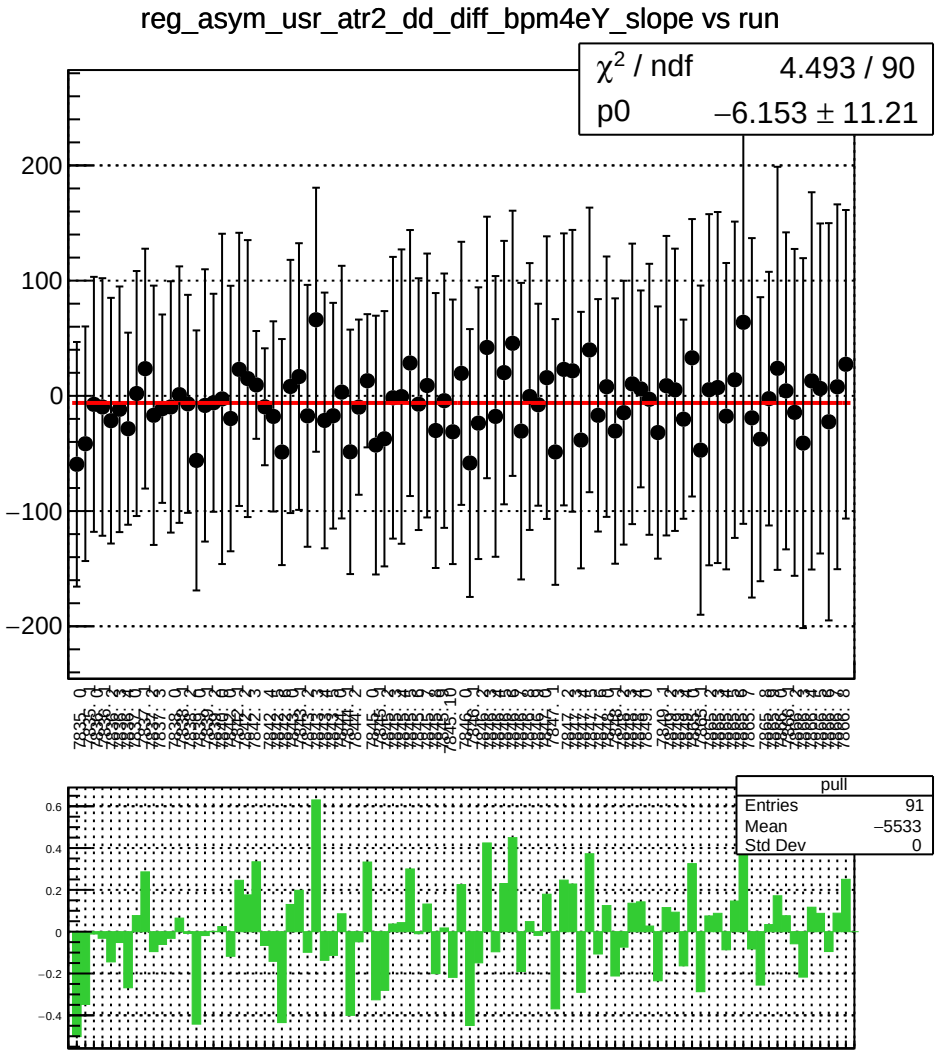

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 73.9 / 90
p0 −168 ± 0.514
−150
−155
−160
−165
−170
−175
−180
−185
−190
pull
Entries 91
Mean 36.22
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01786
Std Dev 0.901
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

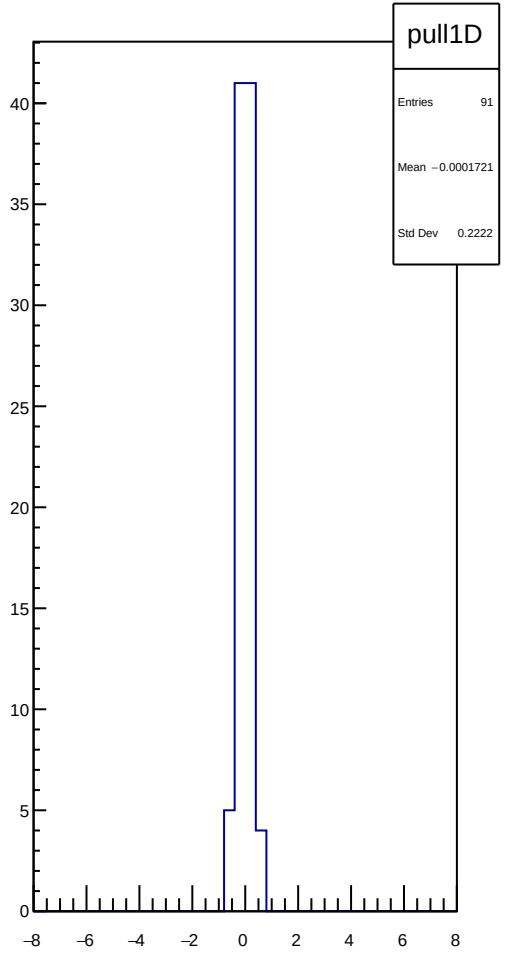

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 186.6 / 90
p0 191.4 ± 7.814
pull
Entries 91
Mean 49.05
Std Dev 28.68

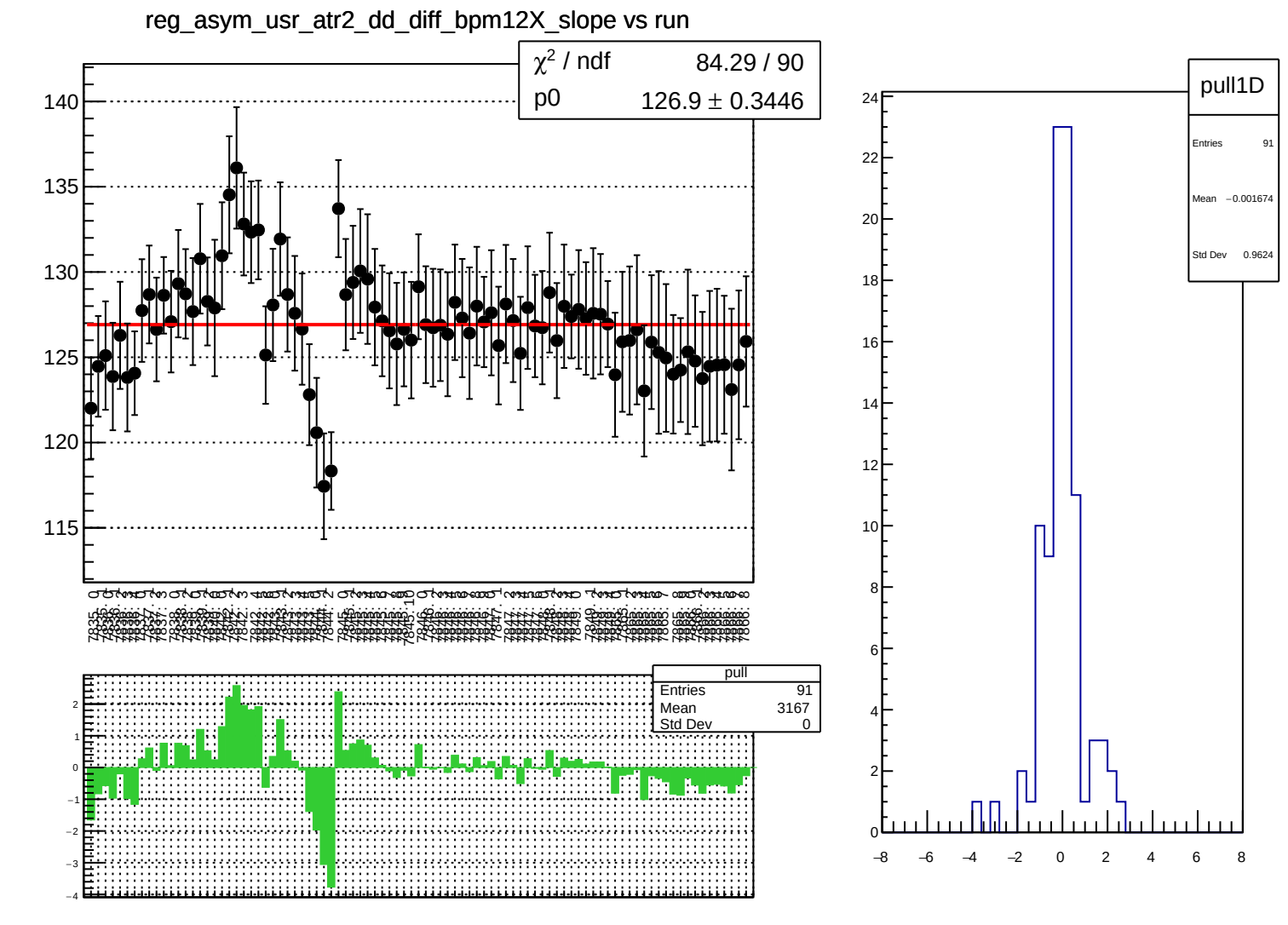

pull1D
Entries 91
Mean −0.6608
Std Dev 1.27

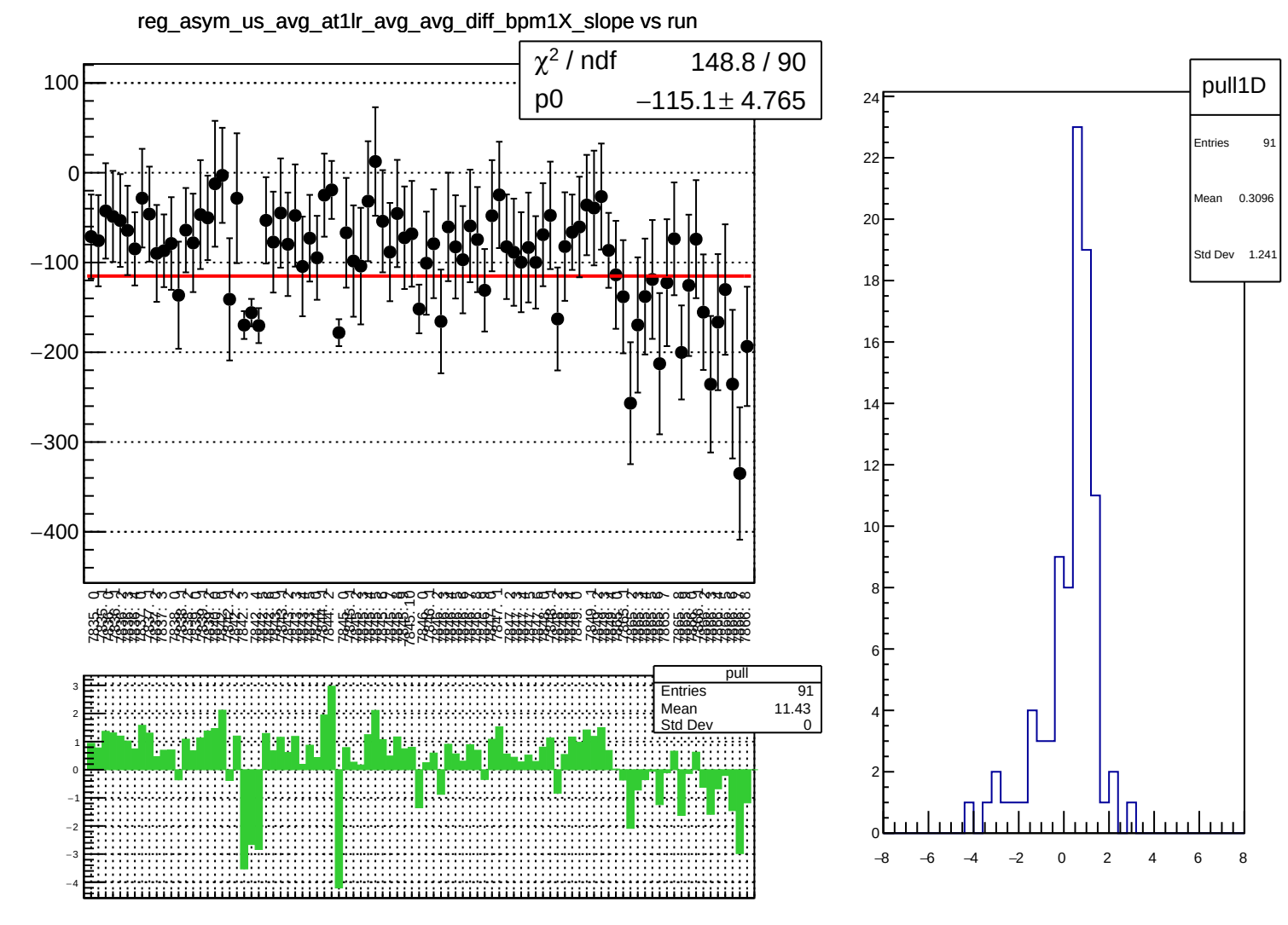

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.773 / 90
p0 −40.94 ± 9.539
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 91
Mean 89.74
Std Dev 46.35
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.01131
Std Dev 0.2288
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

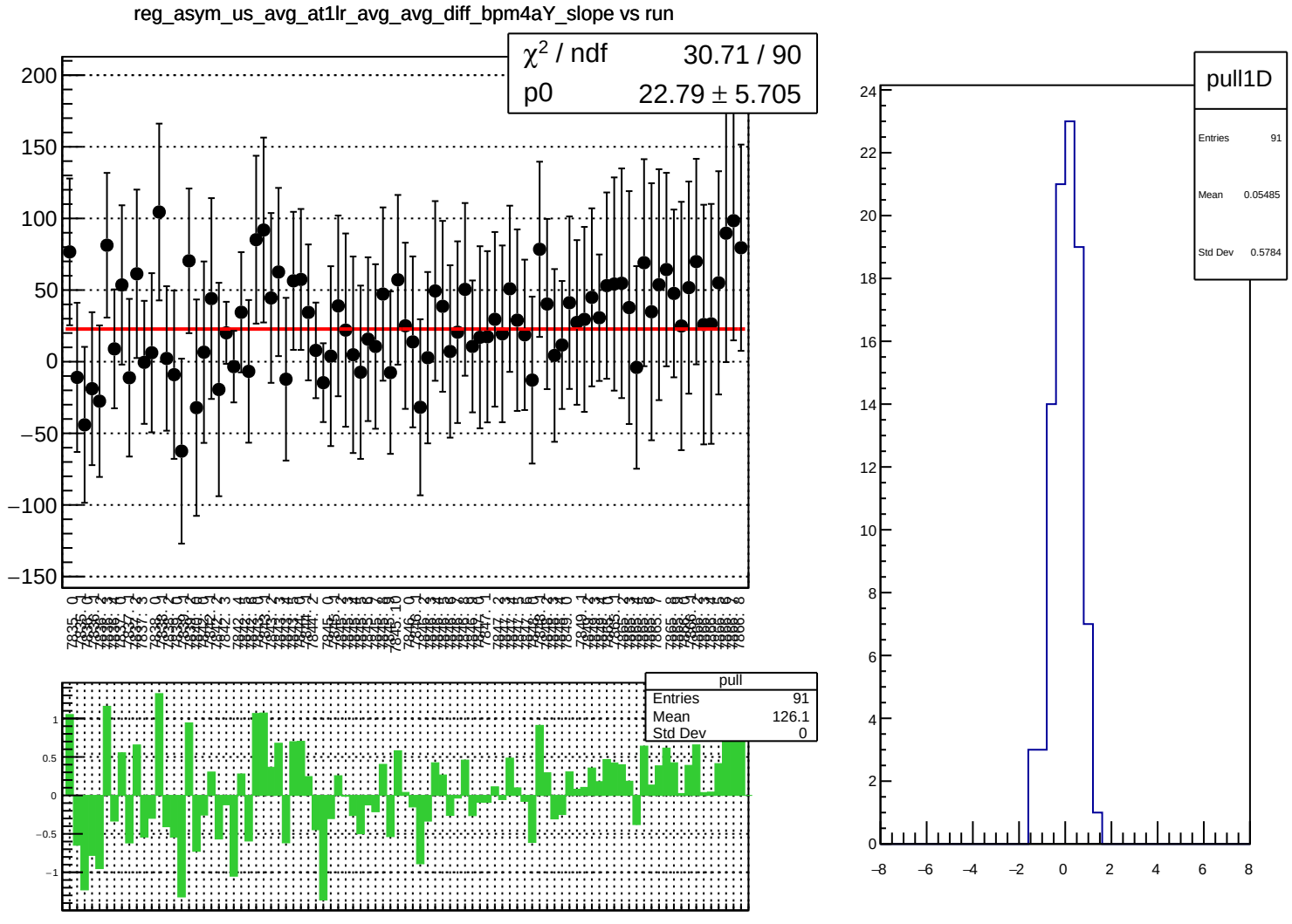

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 233.9 / 90
p0 −219.8 ± 6.709
pull
Entries 91
Mean 49.45
Std Dev 28.57
pull1D
Entries 91
Mean 0.8419
Std Dev 1.364

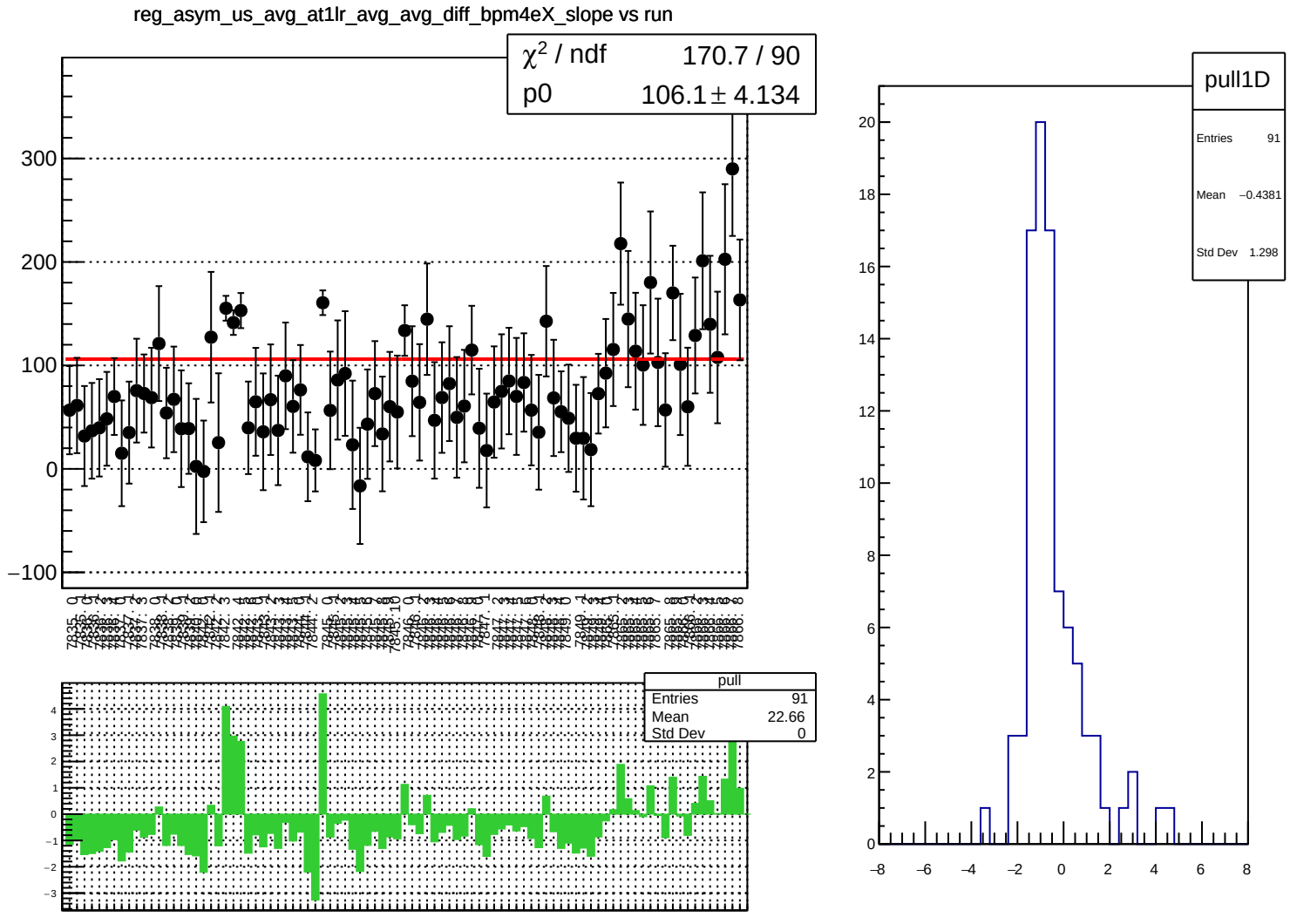

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.493 / 90
p0 −6.153 ± 11.21
200
100
0
−100
−200
pull
Entries 91
Mean −5533
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

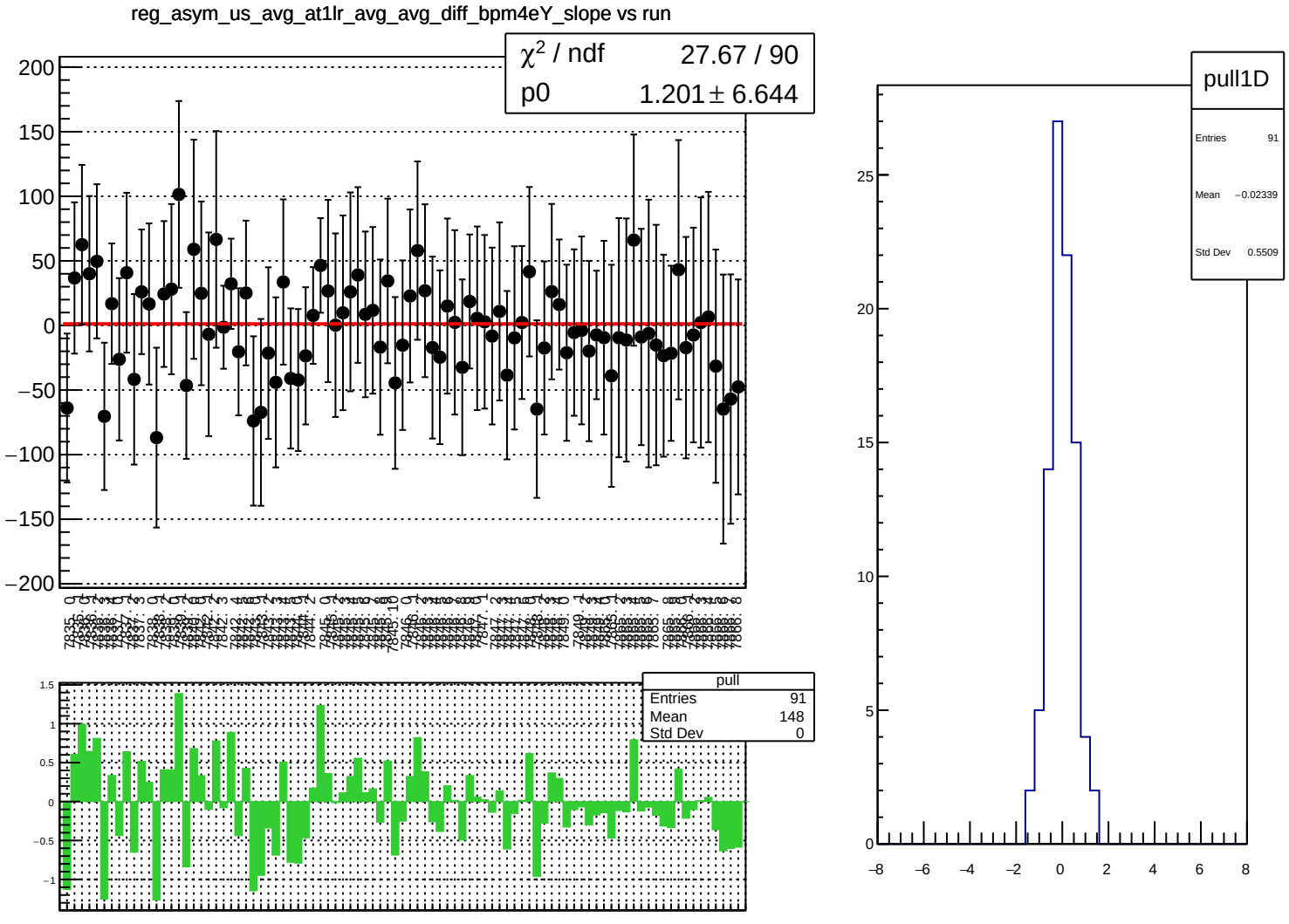

pull1D
Entries 91
Mean −0.0001721
Std Dev 0.2222
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

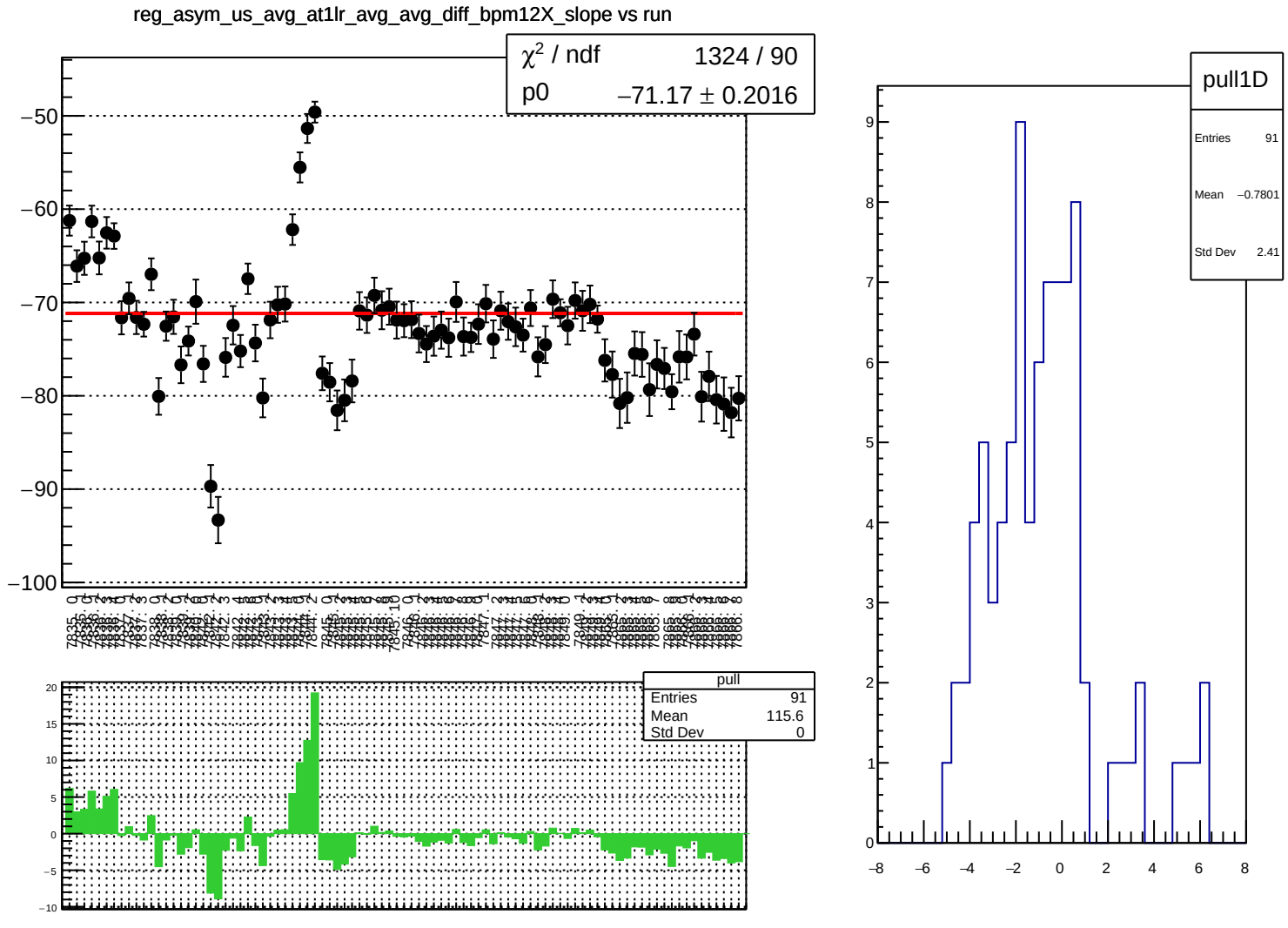

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 84.29 / 90
p0 126.9 ± 0.3446
pull
Entries 91
Mean 3167
Std Dev 0
pull1D
Entries 91
Mean −0.001674
Std Dev 0.9624

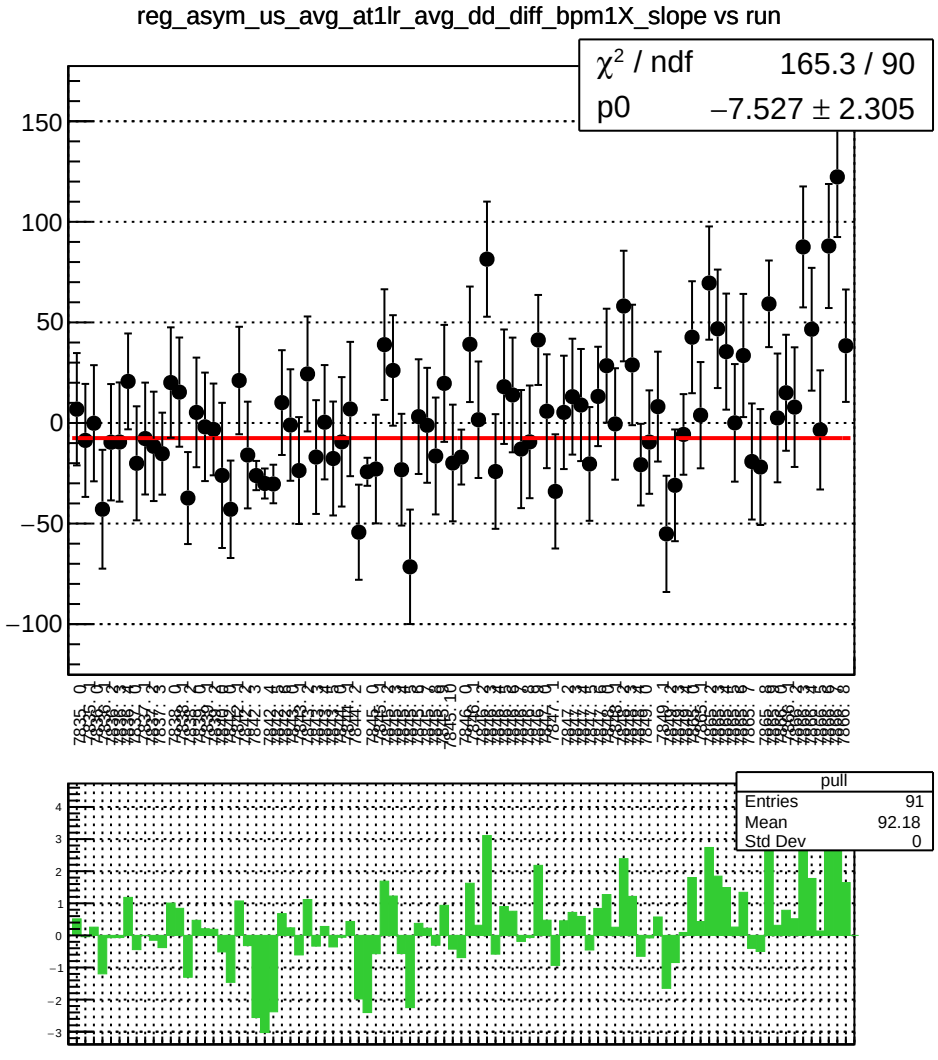

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 148.8 / 90
p0 −115.1 ± 4.765
pull
Entries 91
Mean 11.43
Std Dev 0
pull1D
Entries 91
Mean 0.3096
Std Dev 1.241

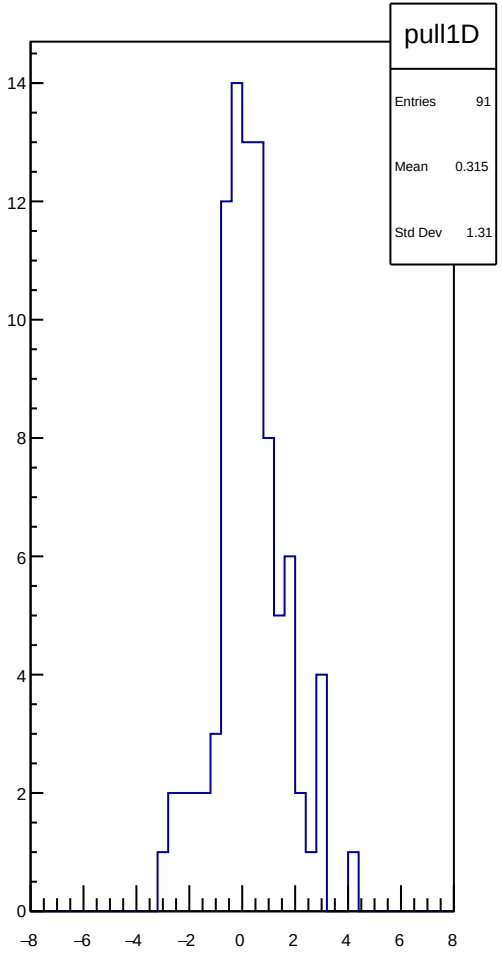

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.71 / 90
p0 22.79 ± 5.705
pull
Entries 91
Mean 126.1
Std Dev 0
pull1D
Entries 91
Mean 0.05485
Std Dev 0.5784

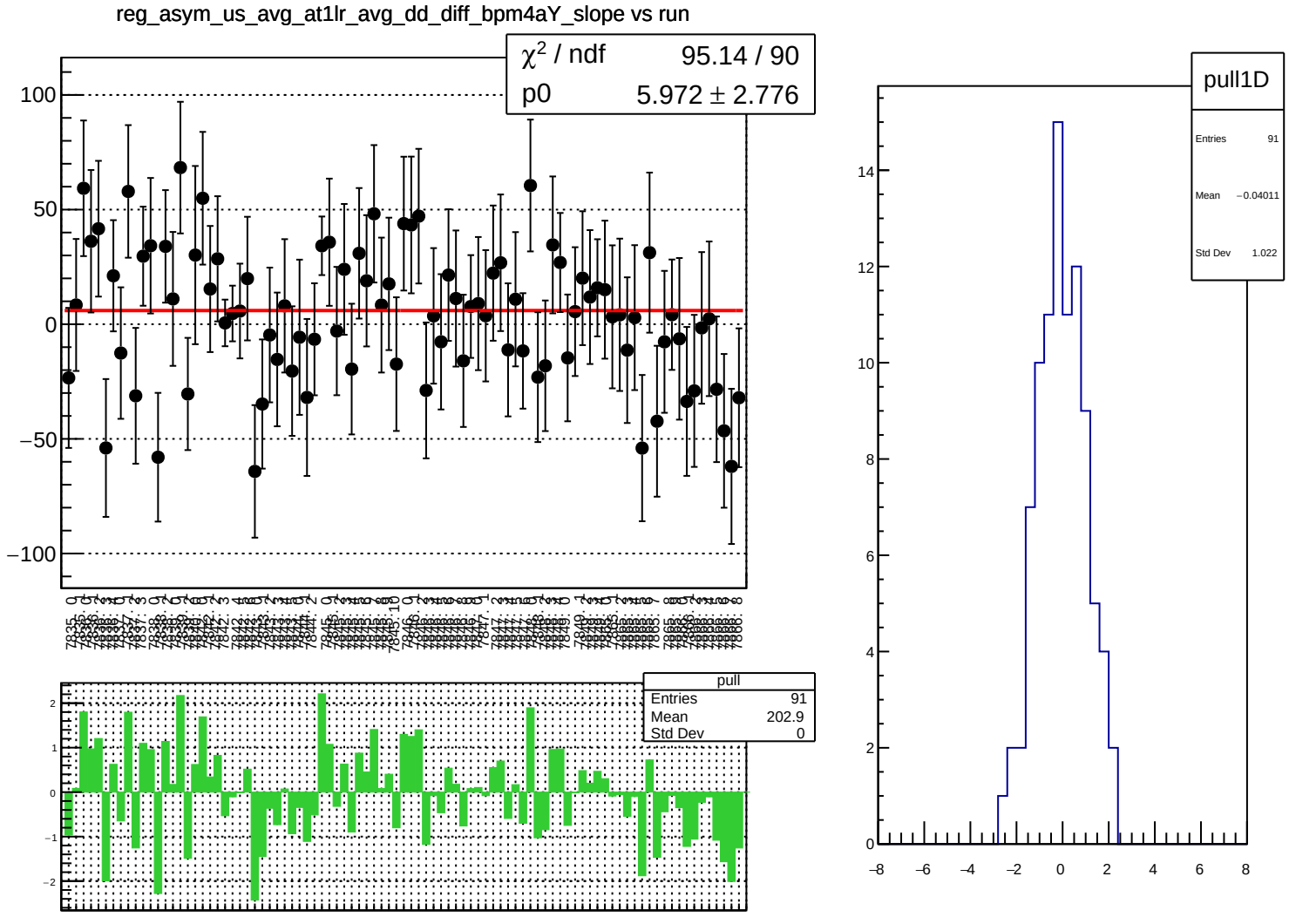

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 170.7 / 90
p0 106.1 ± 4.134
300
200
100
0
−100
pull
Entries 91
Mean 22.66
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.4381
Std Dev 1.298
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

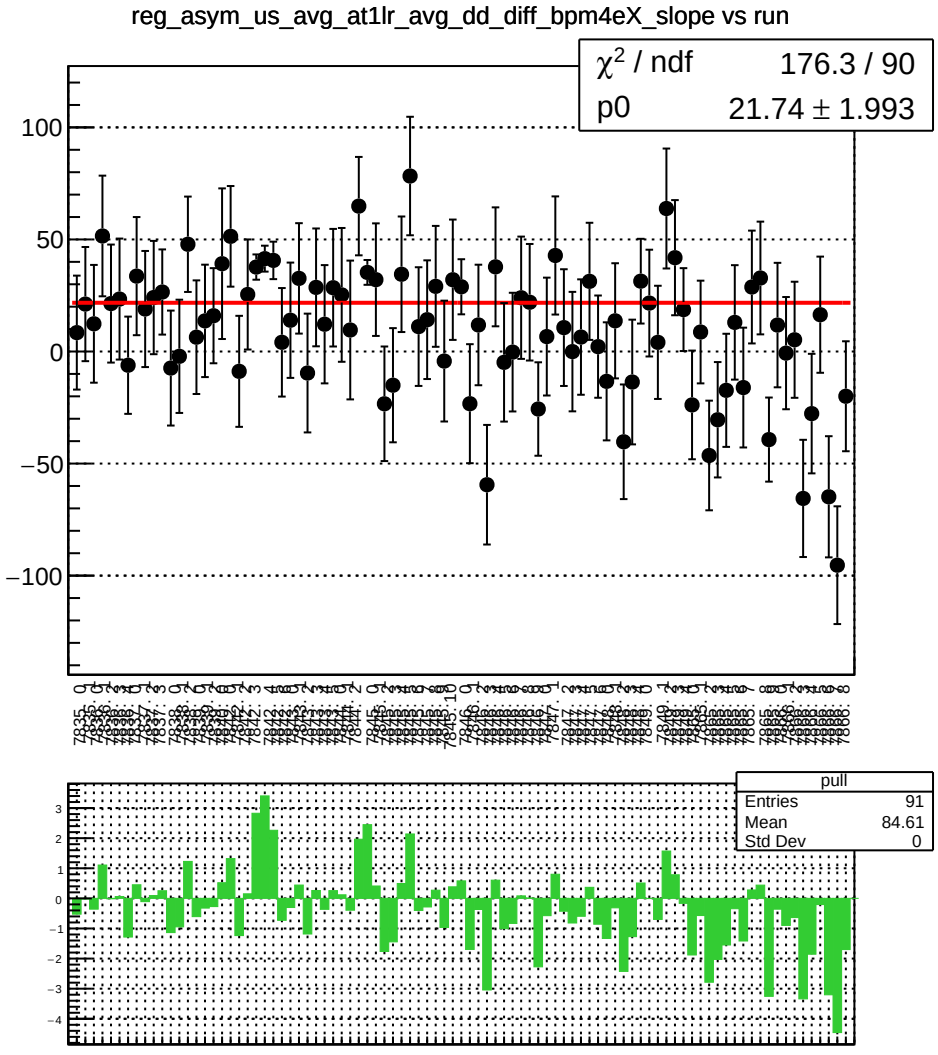

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.67 / 90
p0 1.201 ± 6.644
pull
Entries 91
Mean 148
Std Dev 0
pull1D
Entries 91
Mean −0.02339
Std Dev 0.5509

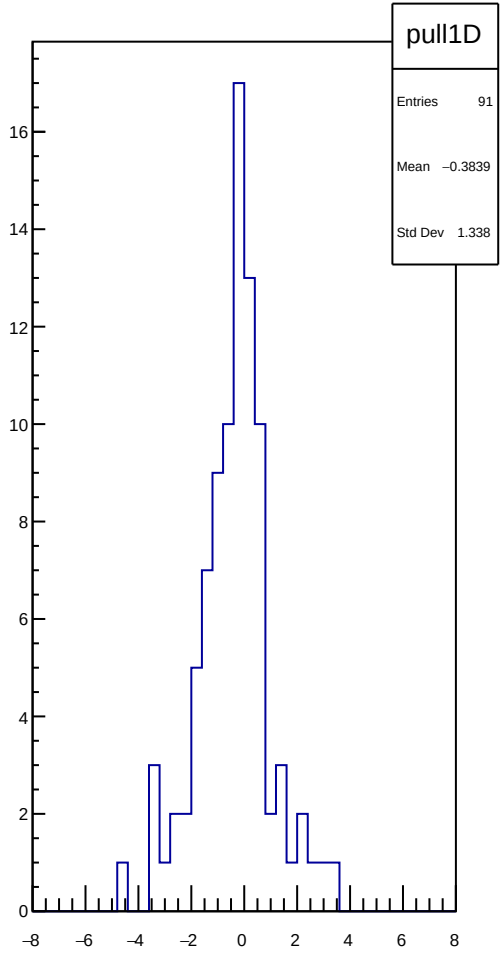

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1324 / 90
p0 −71.17 ± 0.2016
pull
Entries 91
Mean 115.6
Std Dev 0
pull1D
Entries 91
Mean −0.7801
Std Dev 2.41

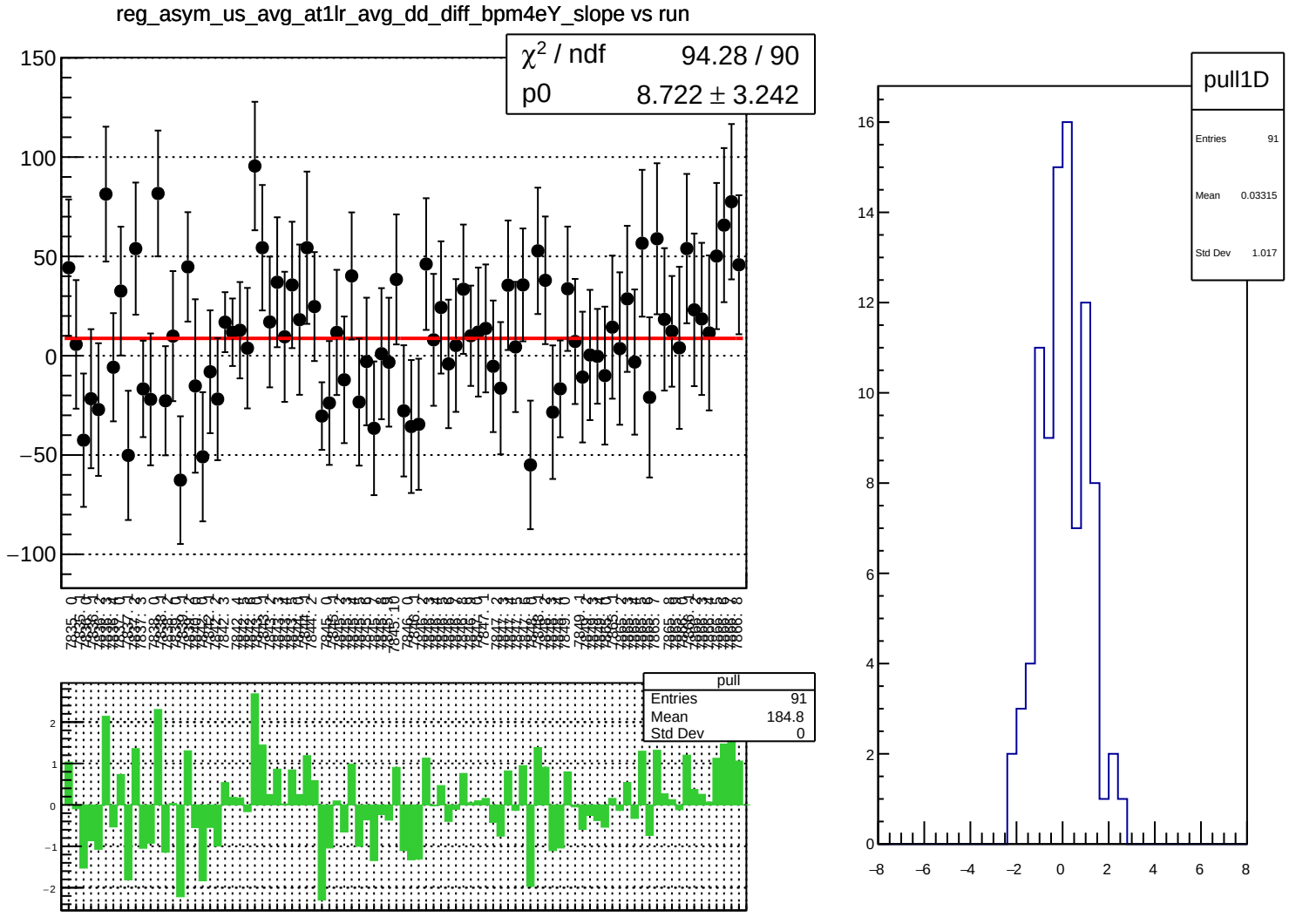

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 165.3 / 90
p0 −7.527 ± 2.305
150
100
50
0
−50
−100
pull
Entries 91
Mean 92.18
Std Dev 0
4
3
2
1
0
−1
−2
−3

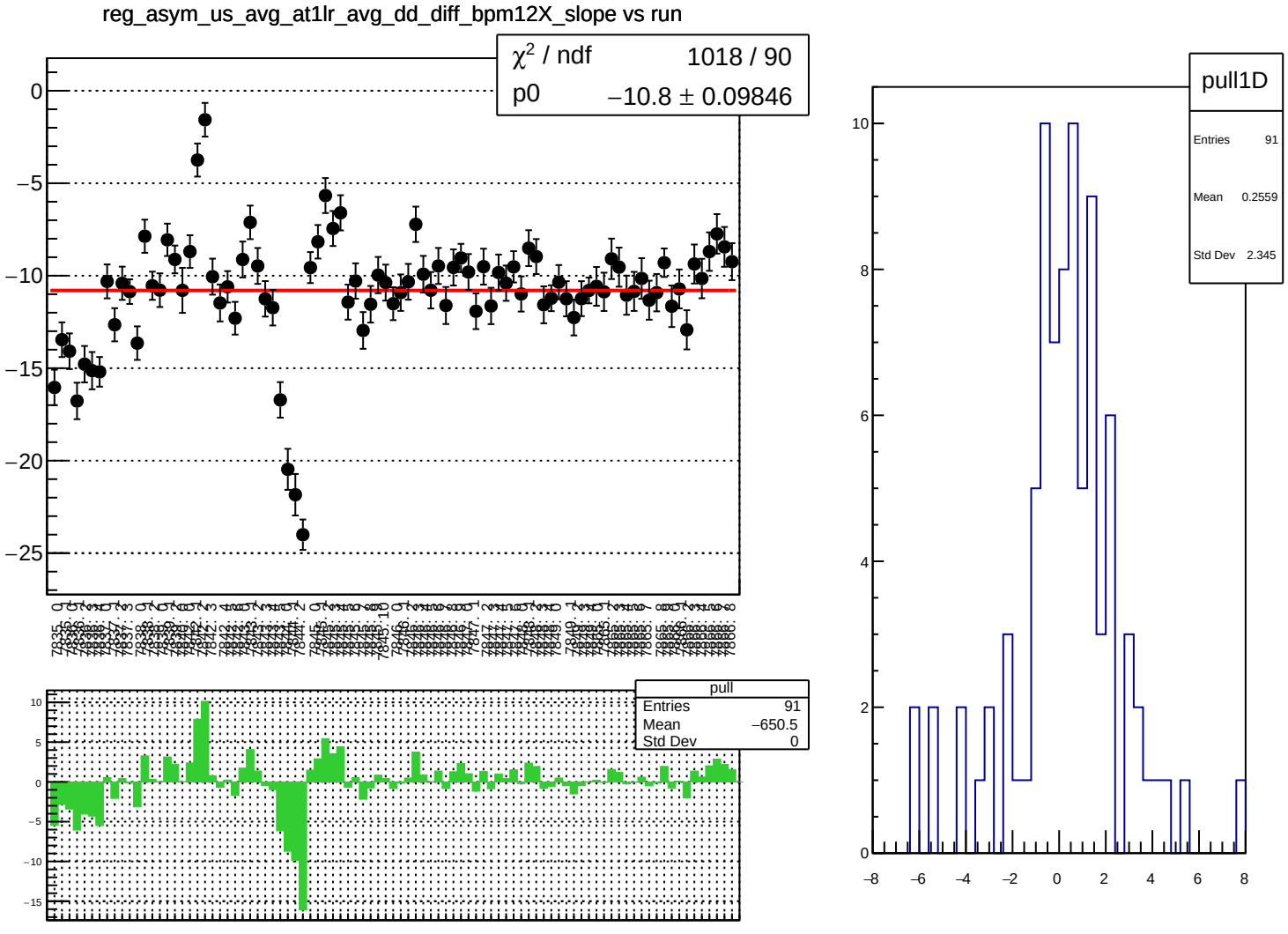

pull1D
Entries 91
Mean 0.315
Std Dev 1.31
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

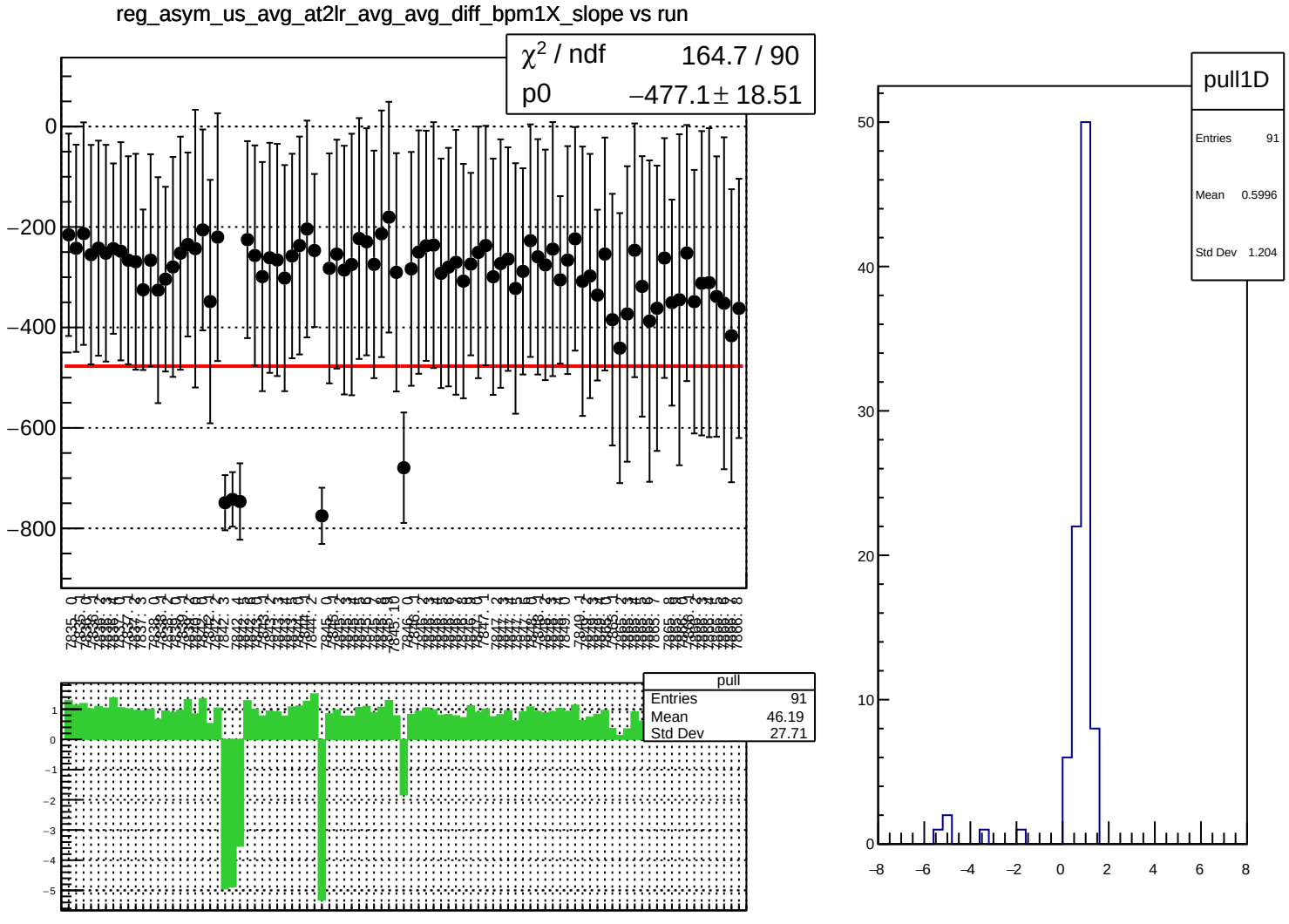

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.14 / 90
p0 5.972 ± 2.776
pull
Entries 91
Mean 202.9
Std Dev 0
pull1D
Entries 91
Mean −0.04011
Std Dev 1.022

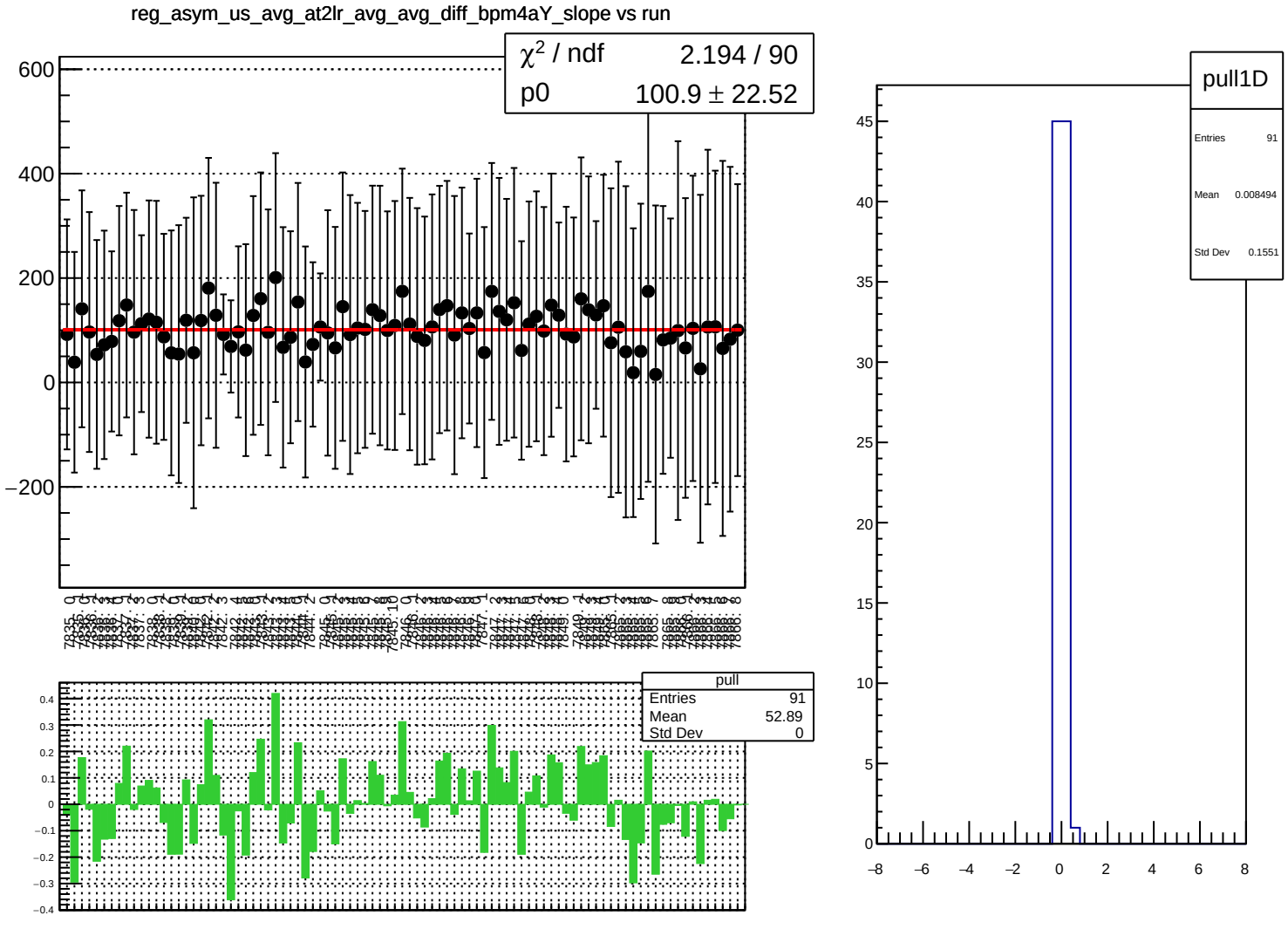

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 176.3 / 90
p0 21.74 ± 1.993
100
50
0
−50
−100
pull
Entries 91
Mean 84.61
Std Dev 0
3
2
1
0
−1
−2
−3
−4

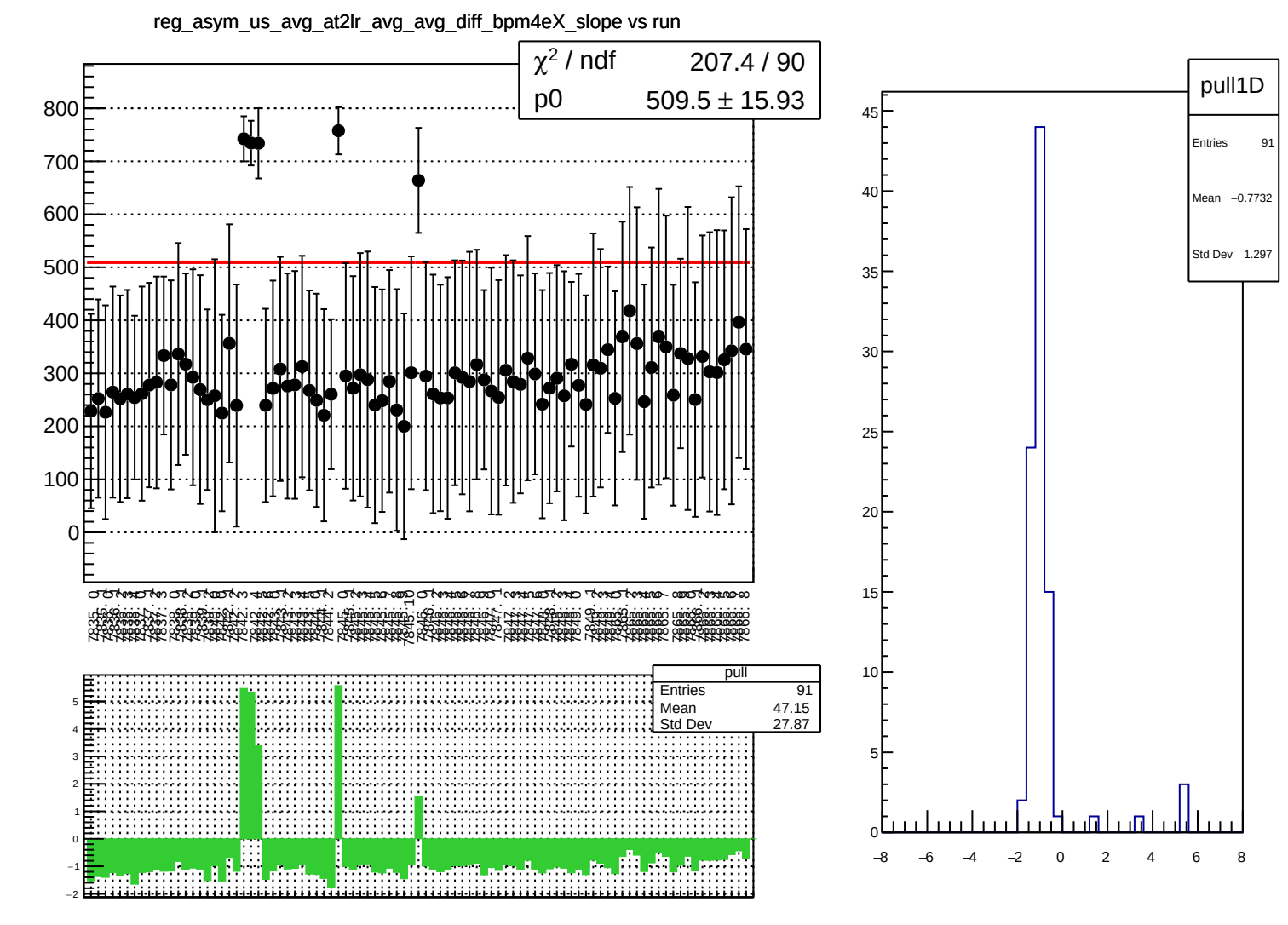

pull1D
Entries 91
Mean −0.3839
Std Dev 1.338
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

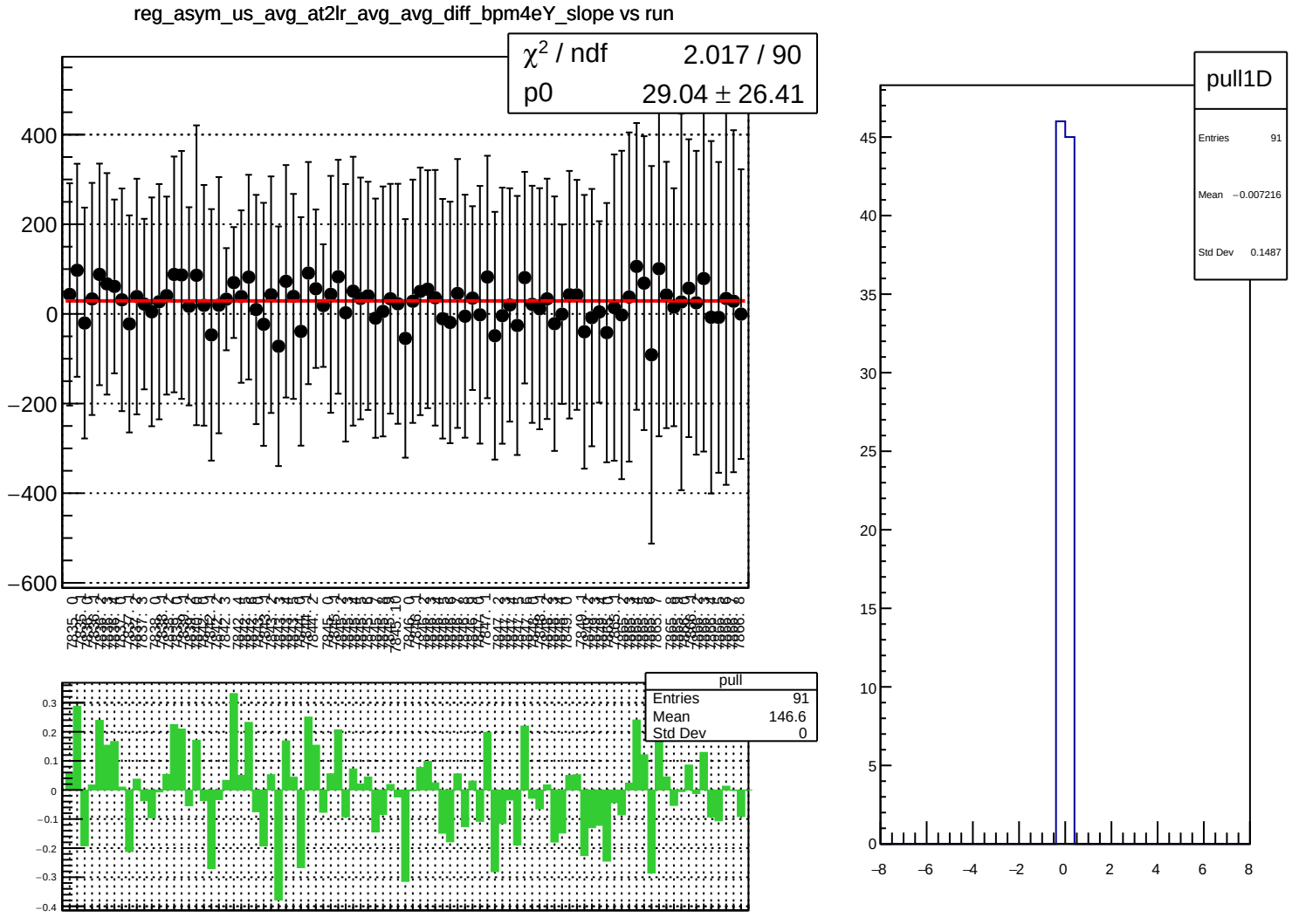

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.28 / 90
p0 8.722 ± 3.242
150
100
50
0
−50
−100
pull
Entries 91
Mean 184.8
Std Dev 0
pull1D
Entries 91
Mean 0.03315
Std Dev 1.017

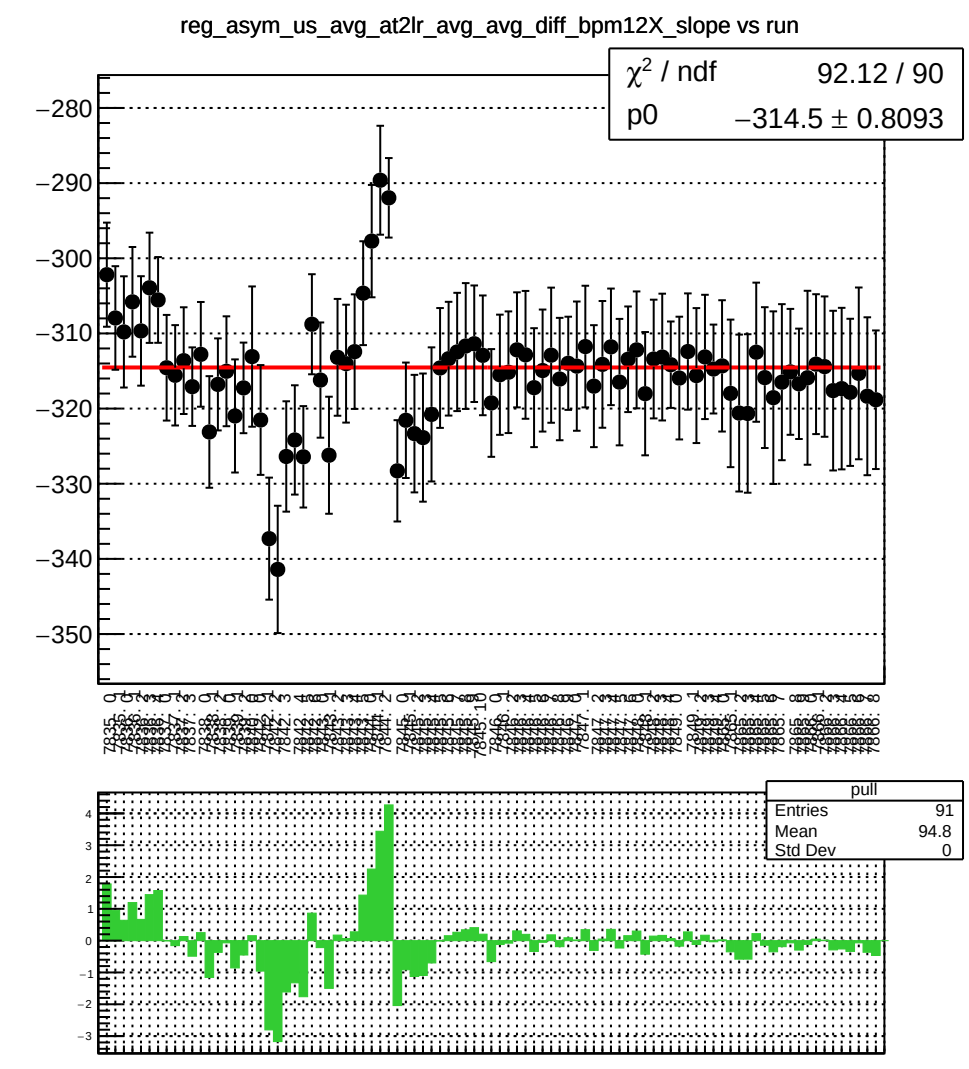

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1018 / 90
p0 −10.8 ± 0.09846
pull
Entries 91
Mean −650.5
Std Dev 0
pull1D
Entries 91
Mean 0.2559
Std Dev 2.345

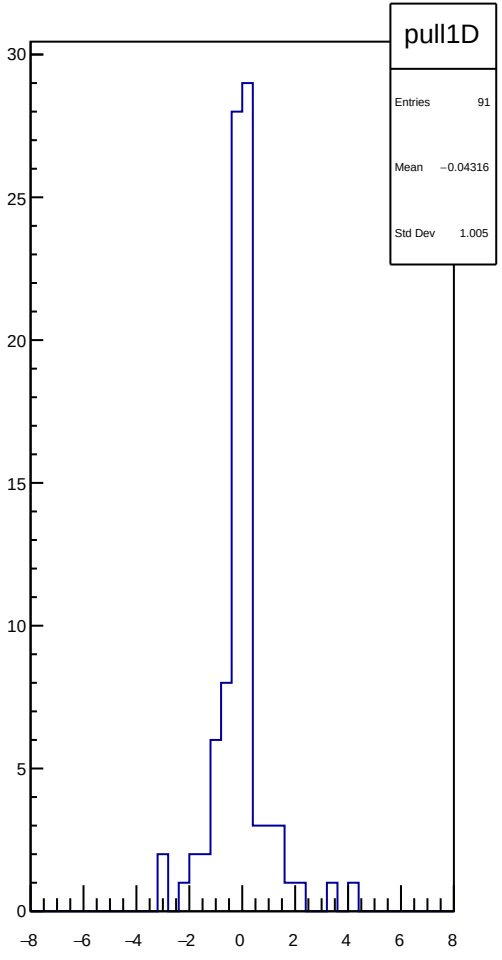

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 164.7 / 90
p0 −477.1 ± 18.51
pull
Entries 91
Mean 46.19
Std Dev 27.71
pull1D
Entries 91
Mean 0.5996
Std Dev 1.204

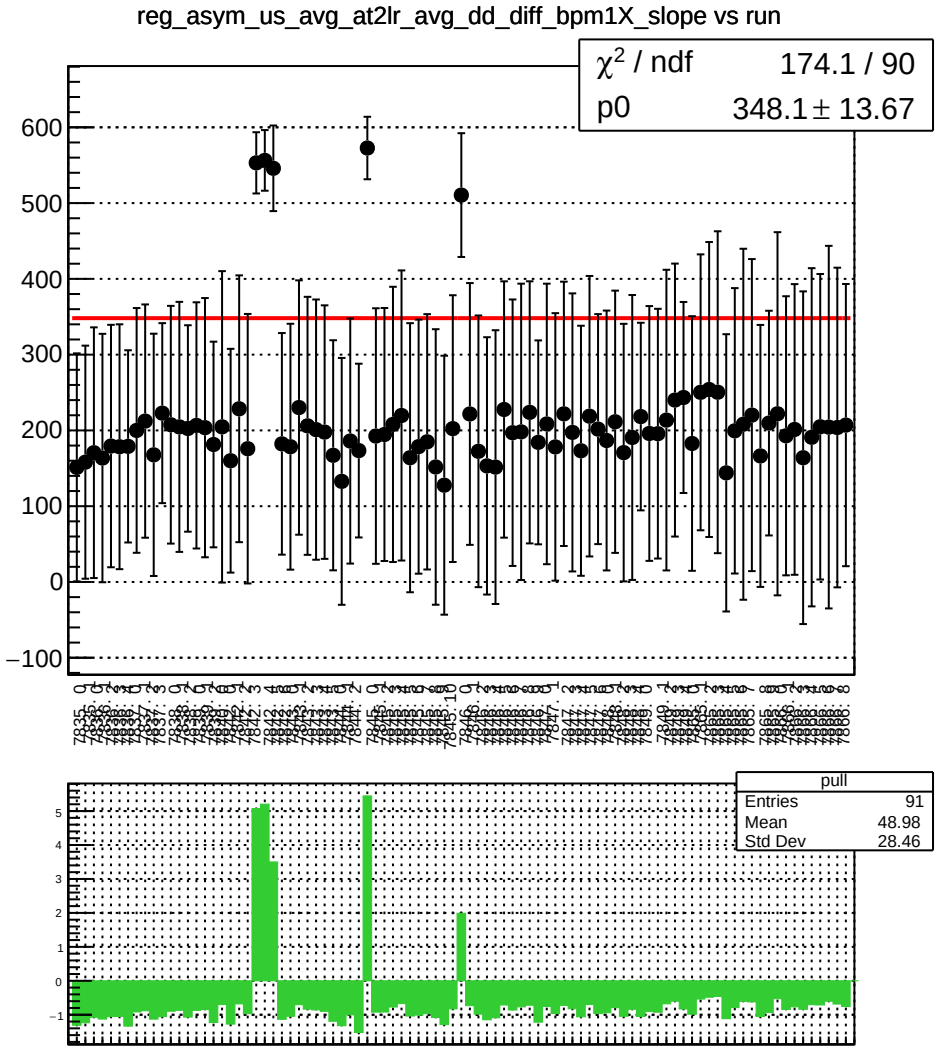

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.194 / 90
p0 100.9 ± 22.52
pull
Entries 91
Mean 52.89
Std Dev 0
pull1D
Entries 91
Mean 0.008494
Std Dev 0.1551

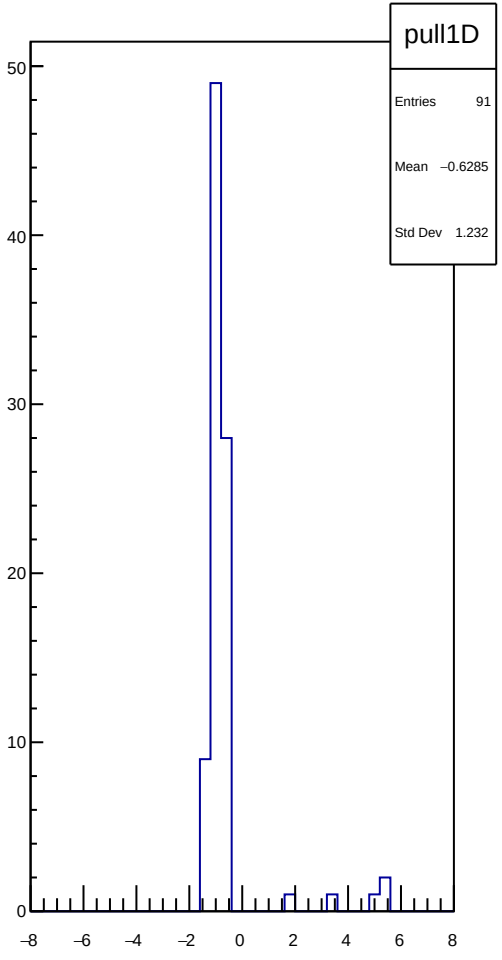

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 207.4 / 90
p0 509.5 ± 15.93
pull
Entries 91
Mean 47.15
Std Dev 27.87
pull1D
Entries 91
Mean −0.7732
Std Dev 1.297

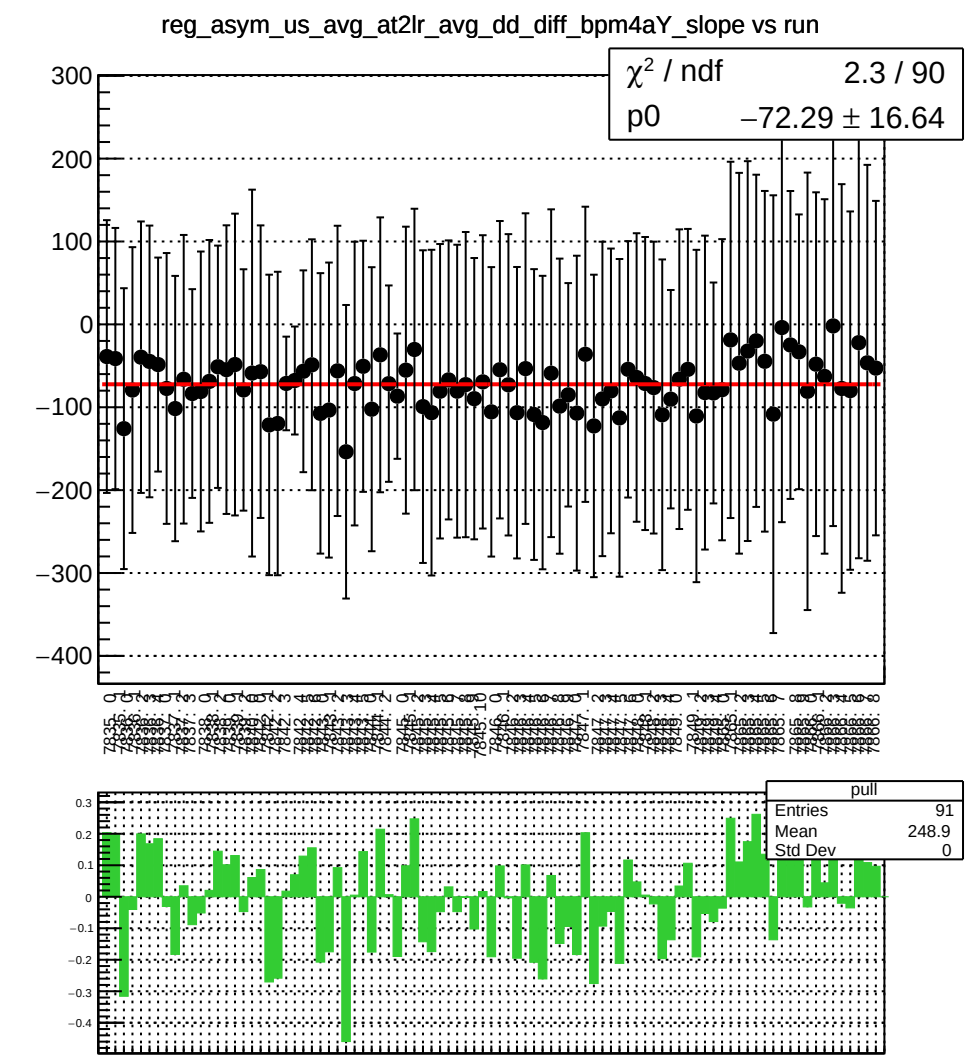

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.017 / 90
p0 29.04 ± 26.41
pull
Entries 91
Mean 146.6
Std Dev 0
pull1D
Entries 91
Mean −0.007216
Std Dev 0.1487

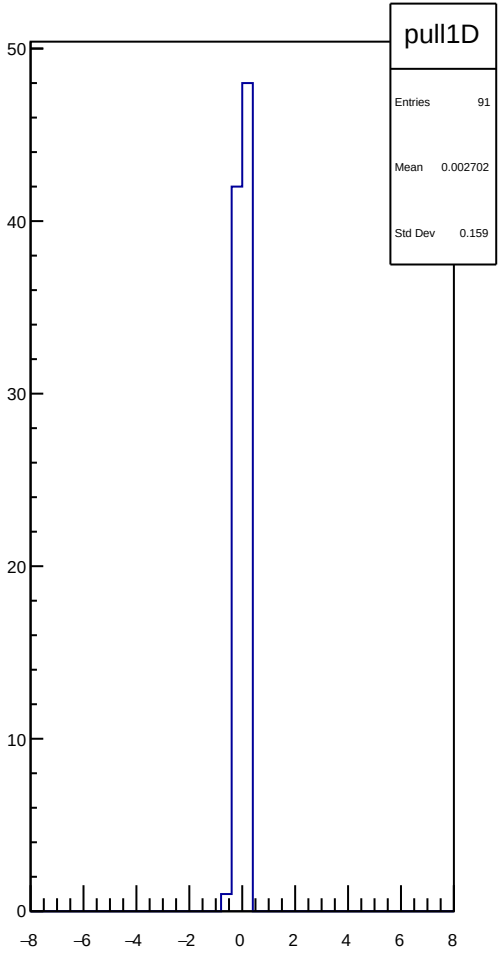

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 92.12 / 90
p0 −314.5 ± 0.8093
pull
Entries 91
Mean 94.8
Std Dev 0

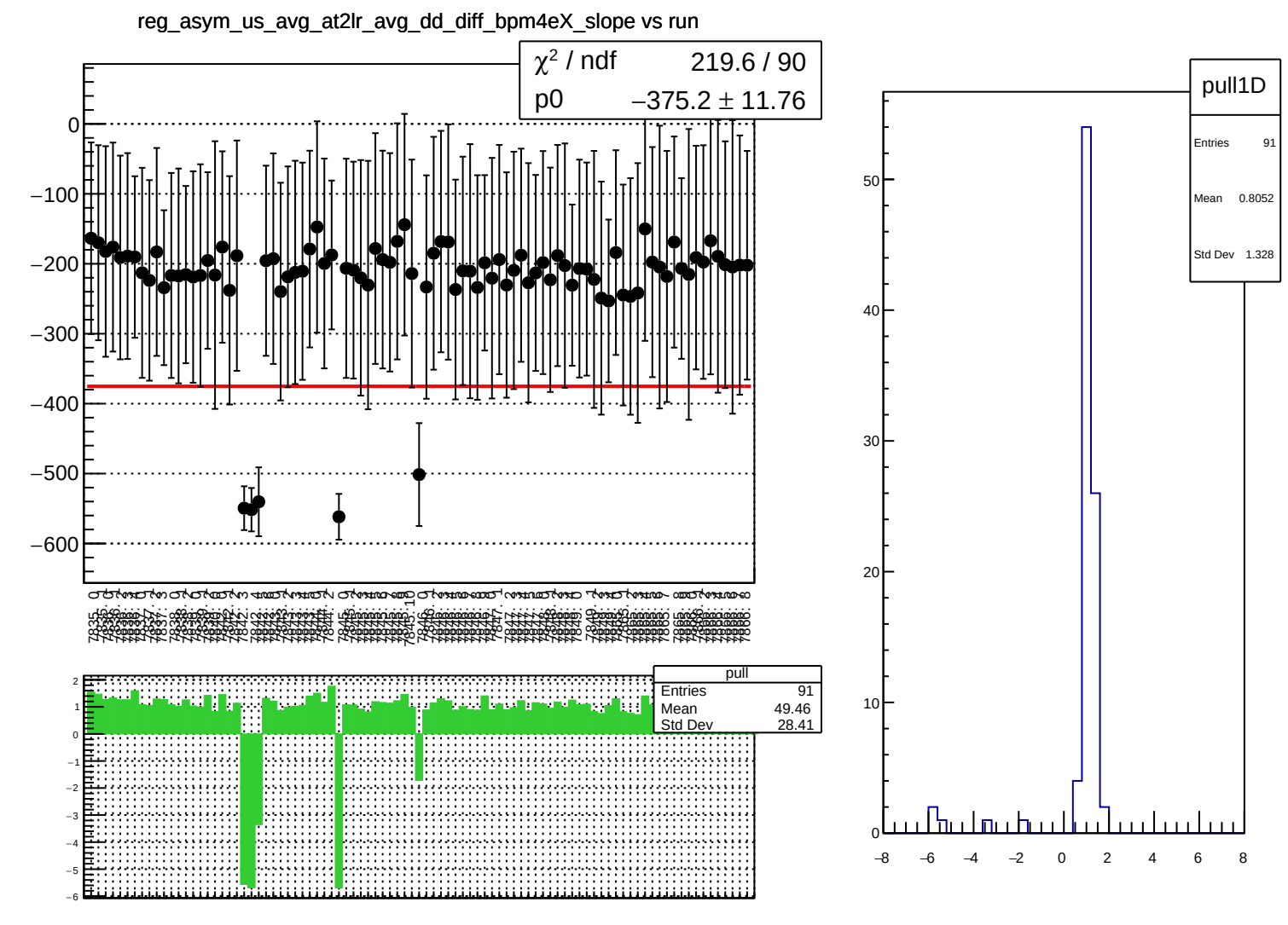

pull1D
Entries 91
Mean −0.04316
Std Dev 1.005

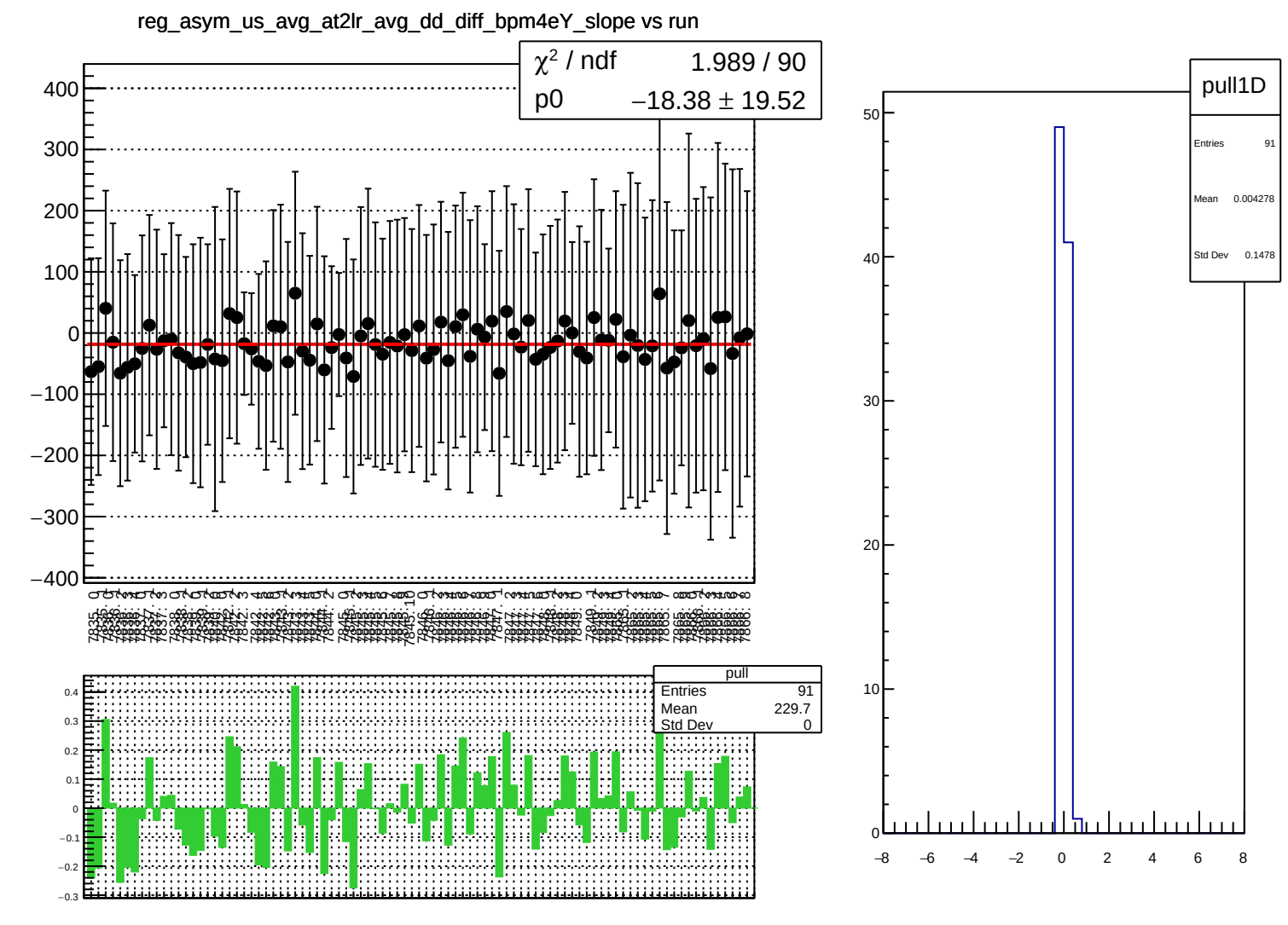

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 174.1 / 90
p0 348.1 ± 13.67
pull
Entries 91
Mean 48.98
Std Dev 28.46

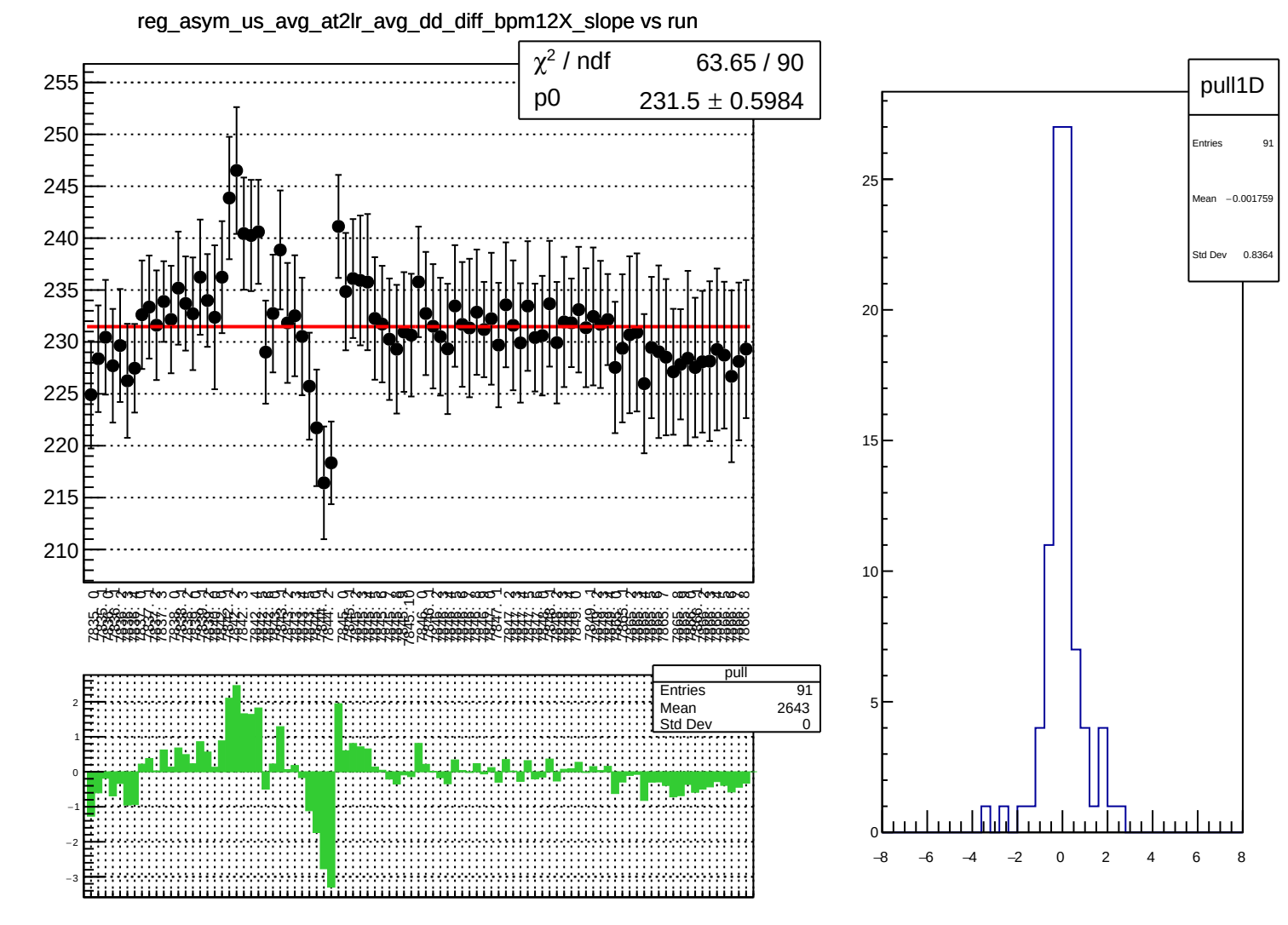

pull1D
Entries 91
Mean −0.6285
Std Dev 1.232

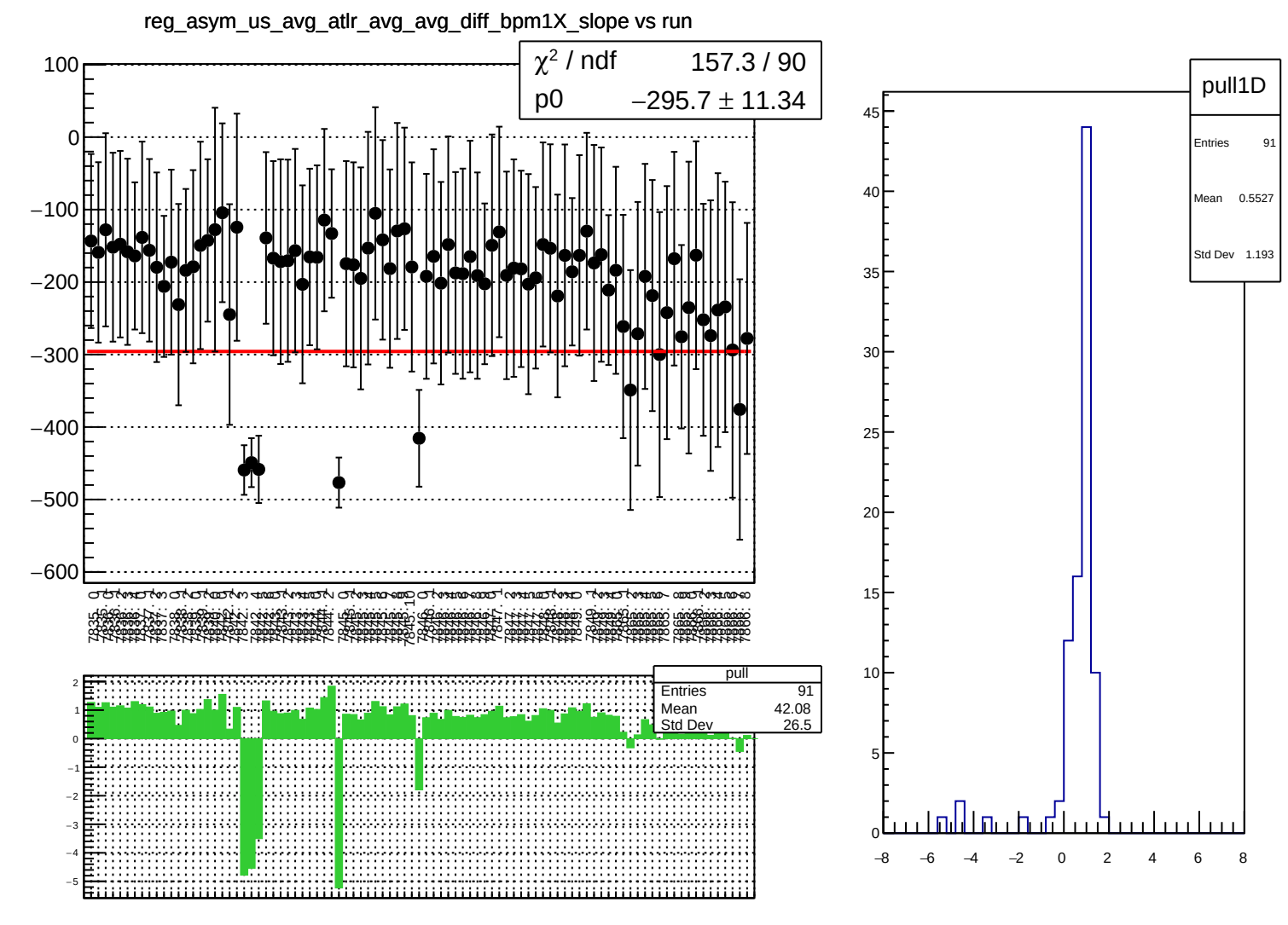

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.3 / 90
p0 −72.29 ± 16.64
pull
Entries 91
Mean 248.9
Std Dev 0

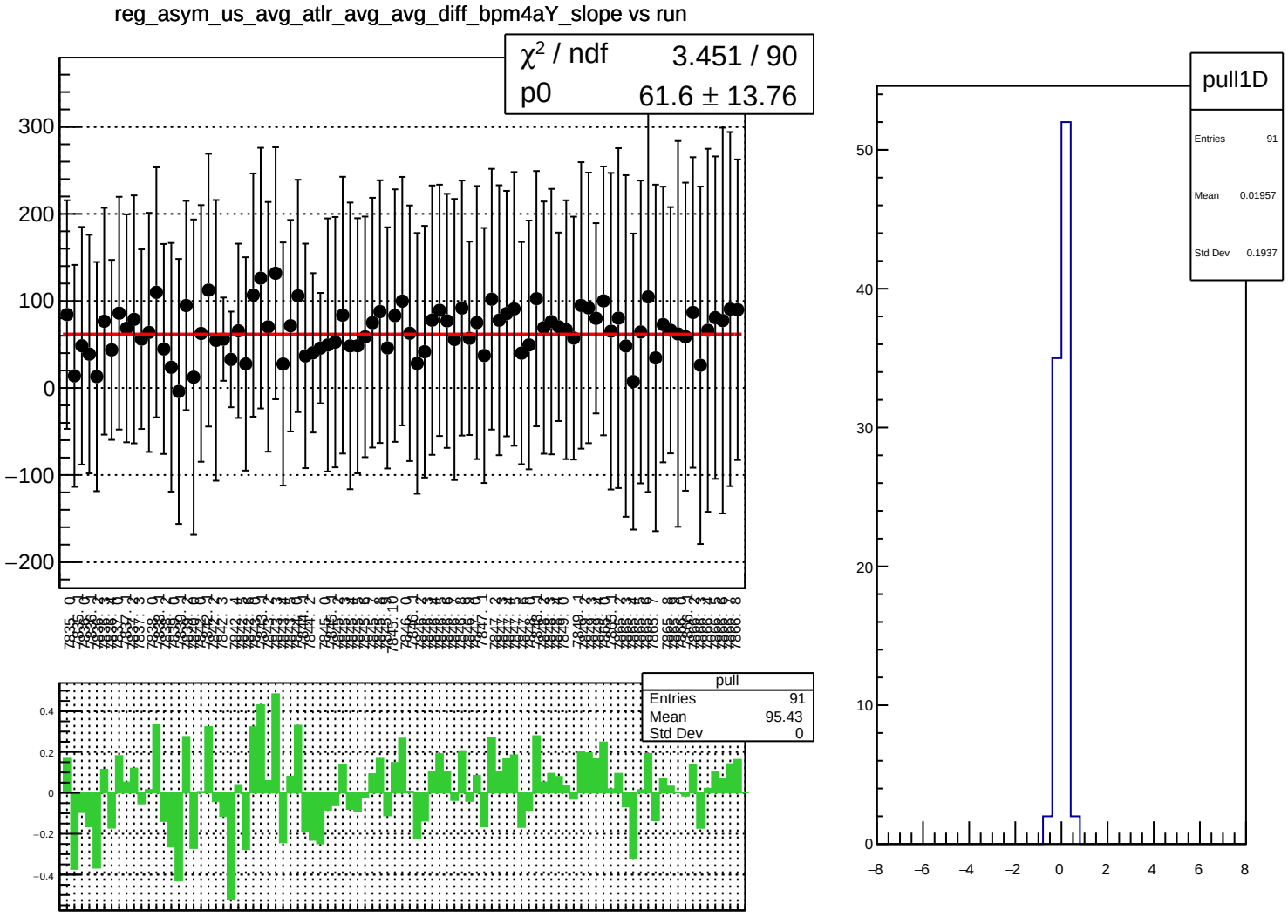

pull1D
Entries 91
Mean 0.002702
Std Dev 0.159

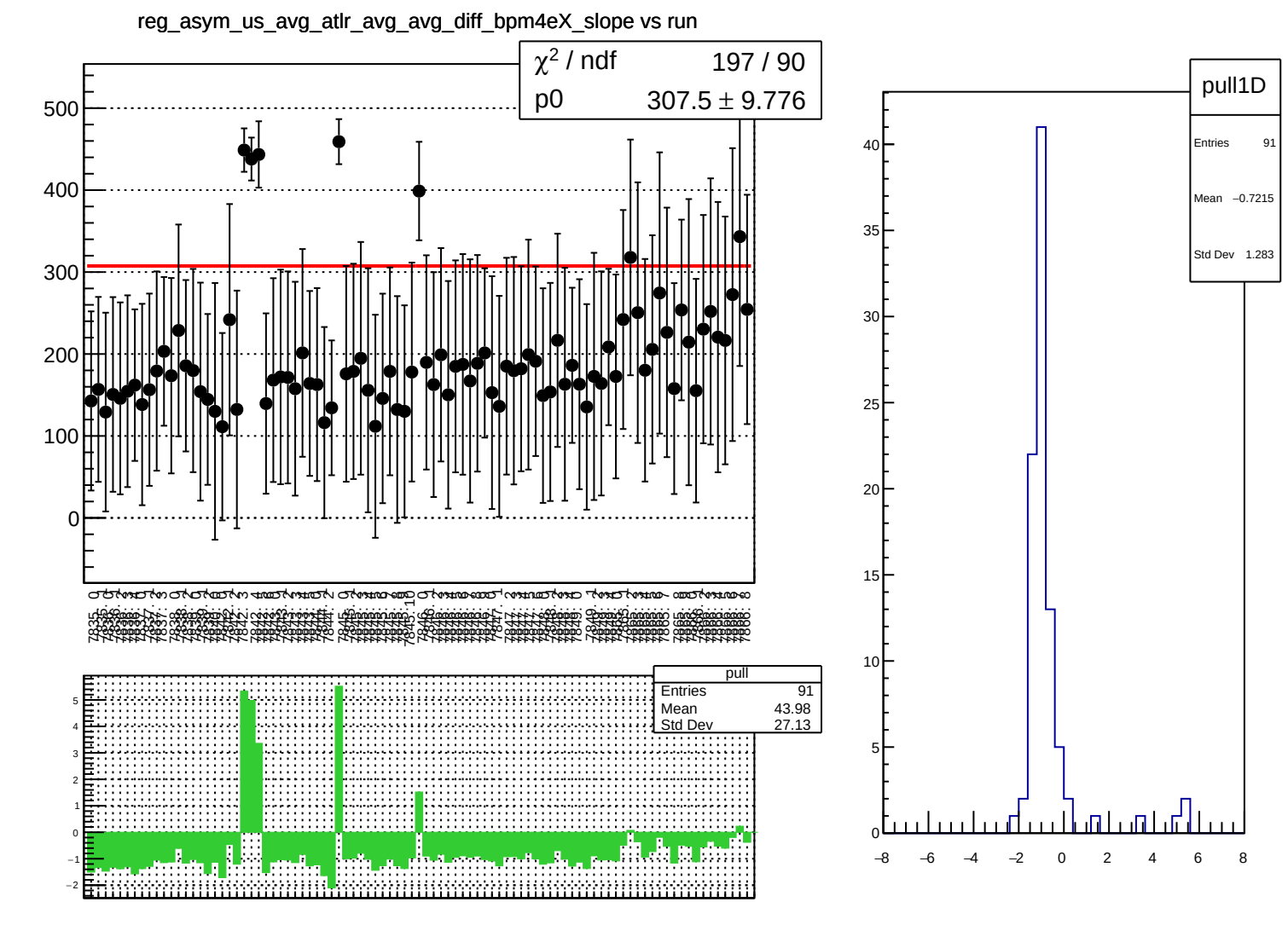

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 219.6 / 90
p0 −375.2 ± 11.76
pull
Entries 91
Mean 49.46
Std Dev 28.41
pull1D
Entries 91
Mean 0.8052
Std Dev 1.328

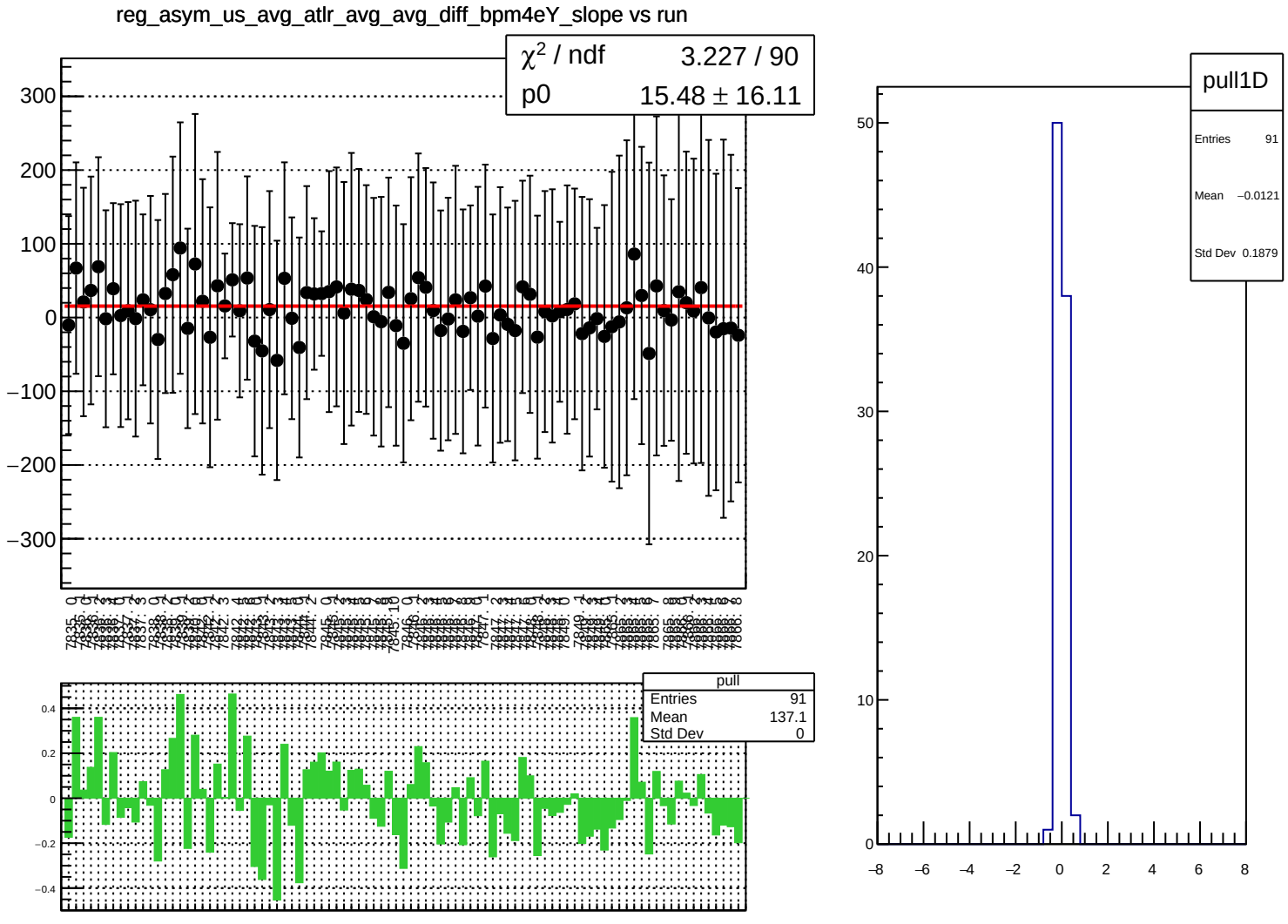

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.989 / 90
p0 −18.38 ± 19.52
pull
Entries 91
Mean 229.7
Std Dev 0
pull1D
Entries 91
Mean 0.004278
Std Dev 0.1478

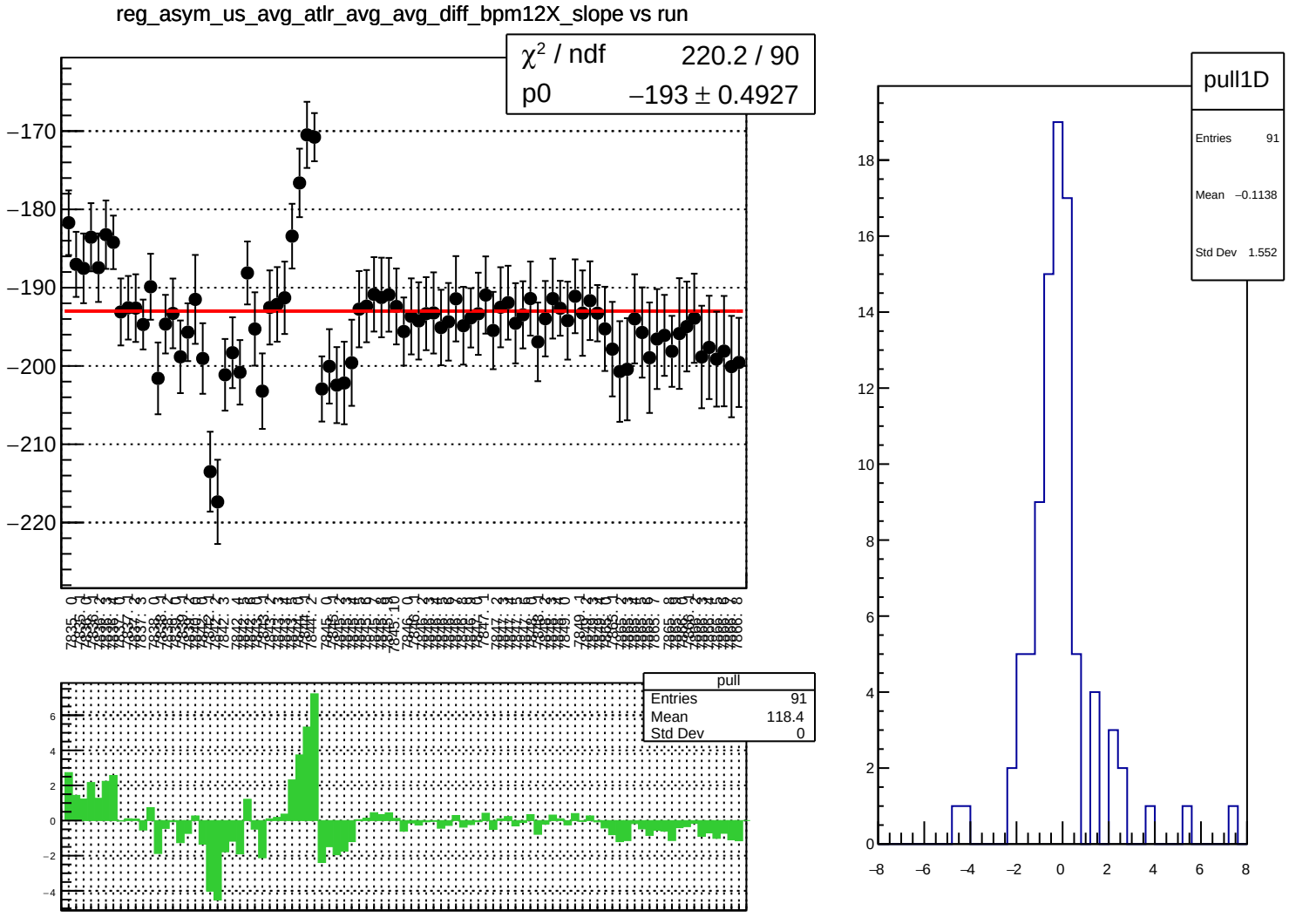

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 63.65 / 90
p0 231.5 ± 0.5984
pull
Entries 91
Mean 2643
Std Dev 0
pull1D
Entries 91
Mean −0.001759
Std Dev 0.8364

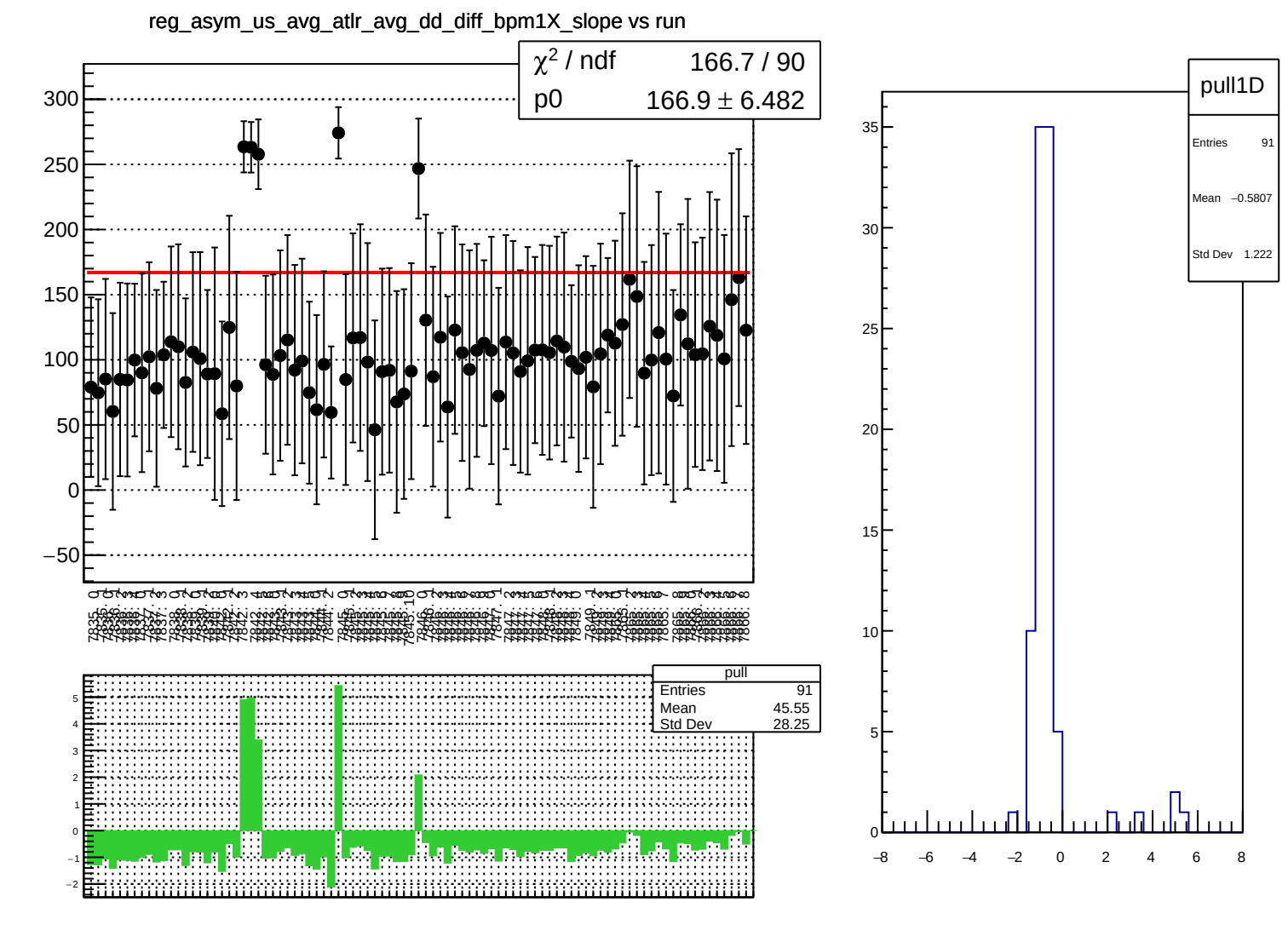

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 157.3 / 90
p0 −295.7 ± 11.34
pull
Entries 91
Mean 42.08
Std Dev 26.5
pull1D
Entries 91
Mean 0.5527
Std Dev 1.193

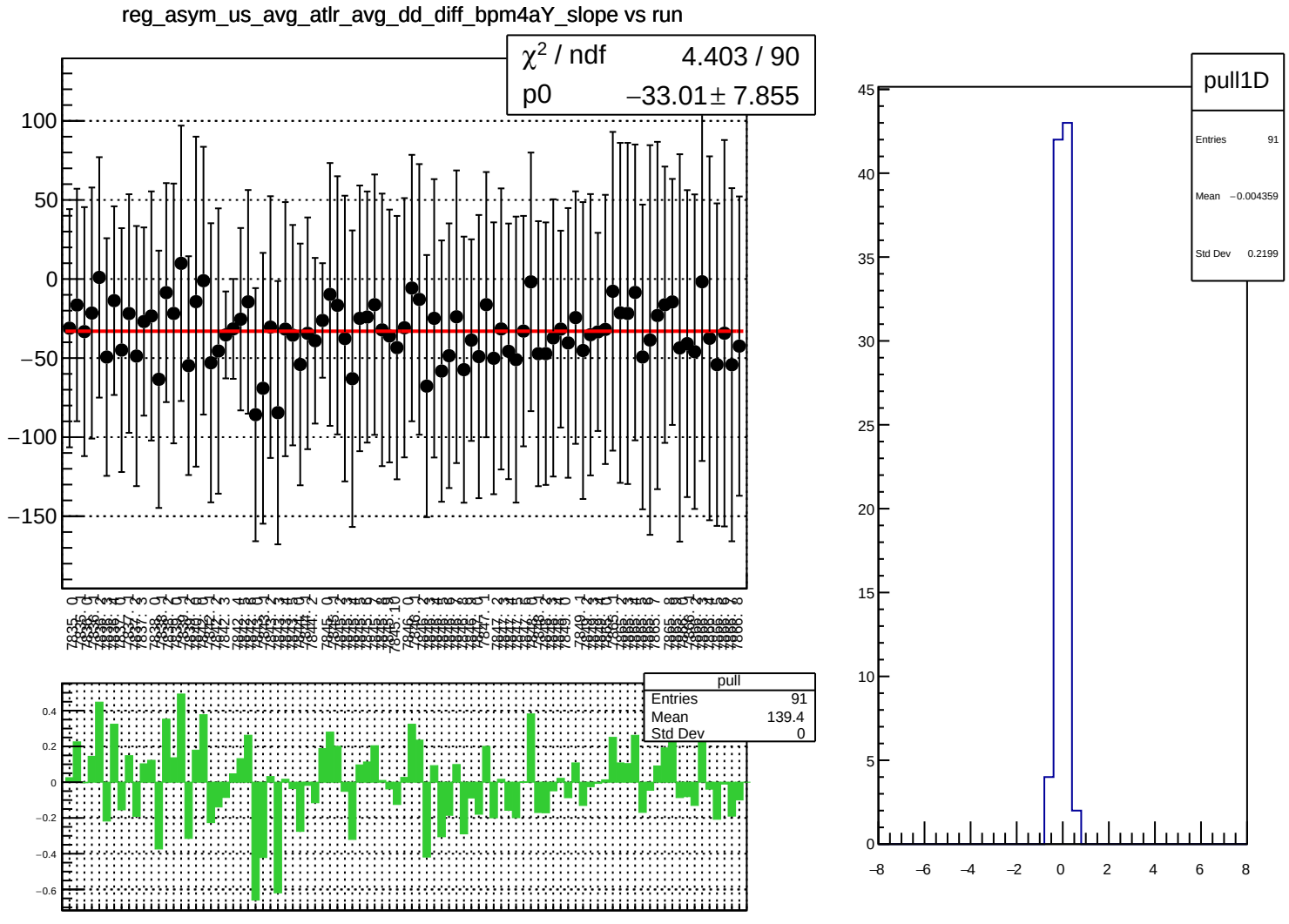

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.451 / 90
p0 61.6 ± 13.76
300
200
100
0
−100
−200
pull
Entries 91
Mean 95.43
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean 0.01957
Std Dev 0.1937
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

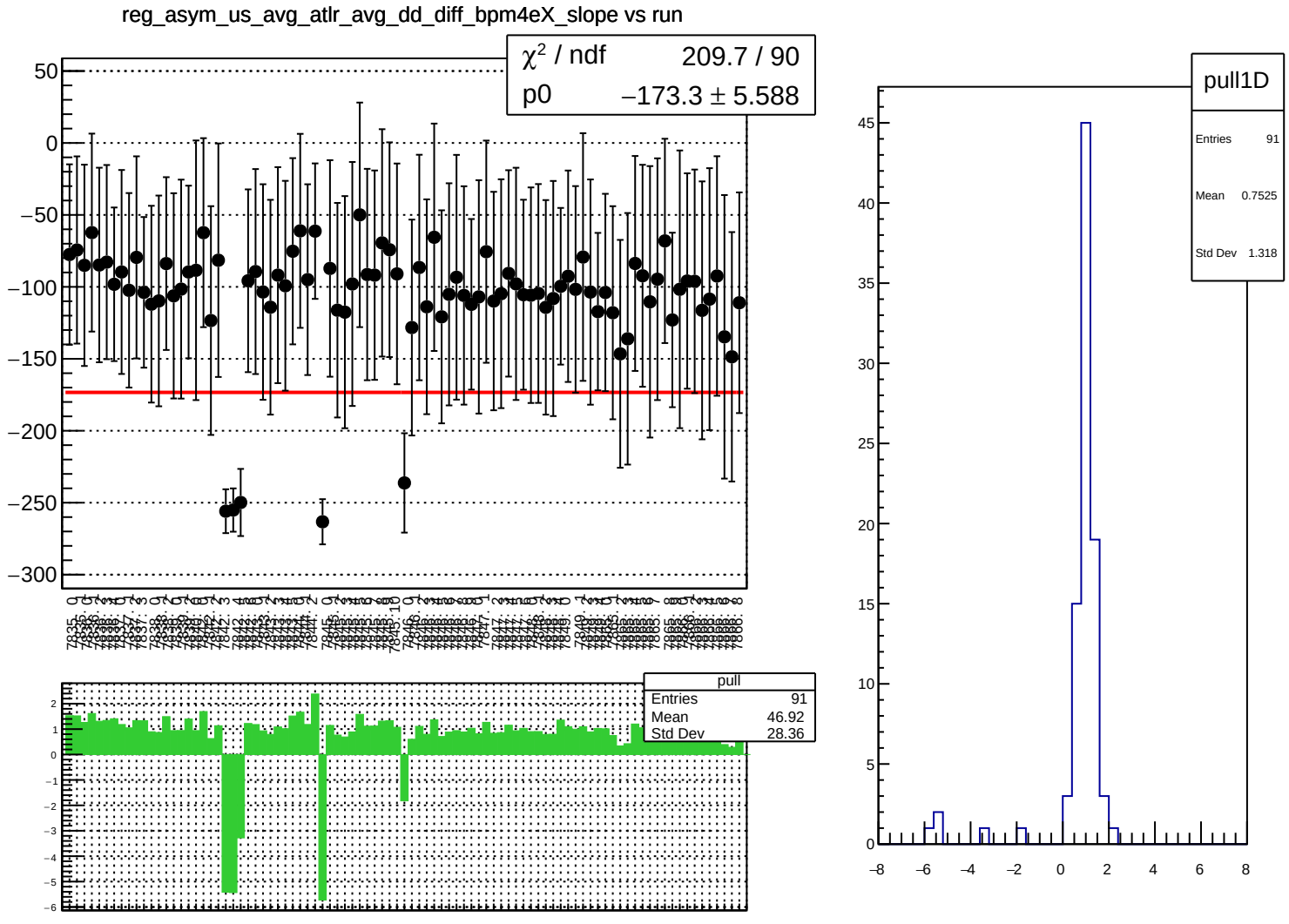

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 197 / 90
p0 307.5 ± 9.776
pull
Entries 91
Mean 43.98
Std Dev 27.13
pull1D
Entries 91
Mean −0.7215
Std Dev 1.283

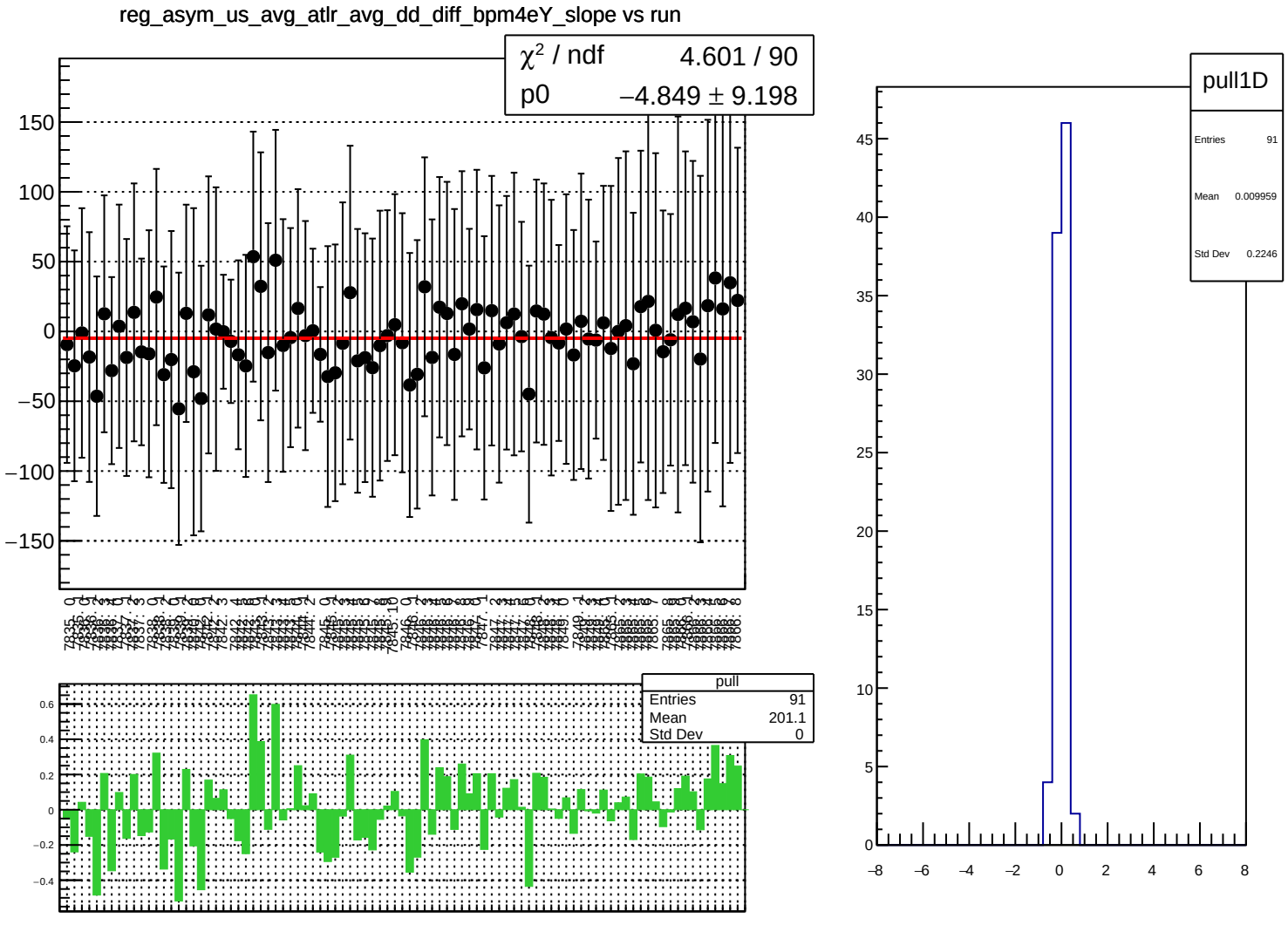

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.227 / 90
p0 15.48 ± 16.11
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean 137.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean −0.0121
Std Dev 0.1879
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

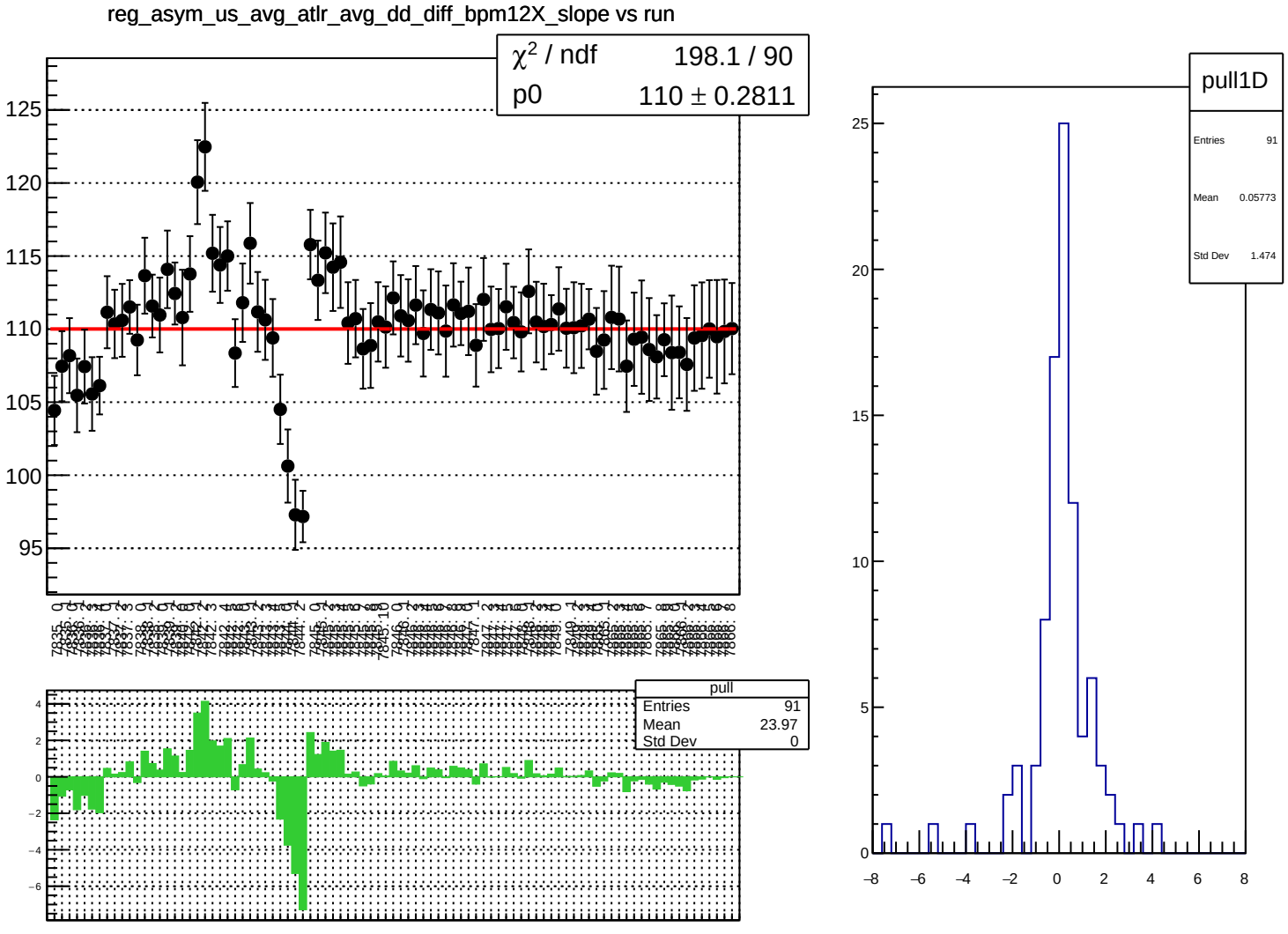

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 220.2 / 90
p0 −193 ± 0.4927
−170
−180
−190
−200
−210
−220
pull
Entries 91
Mean 118.4
Std Dev 0
pull1D
Entries 91
Mean −0.1138
Std Dev 1.552

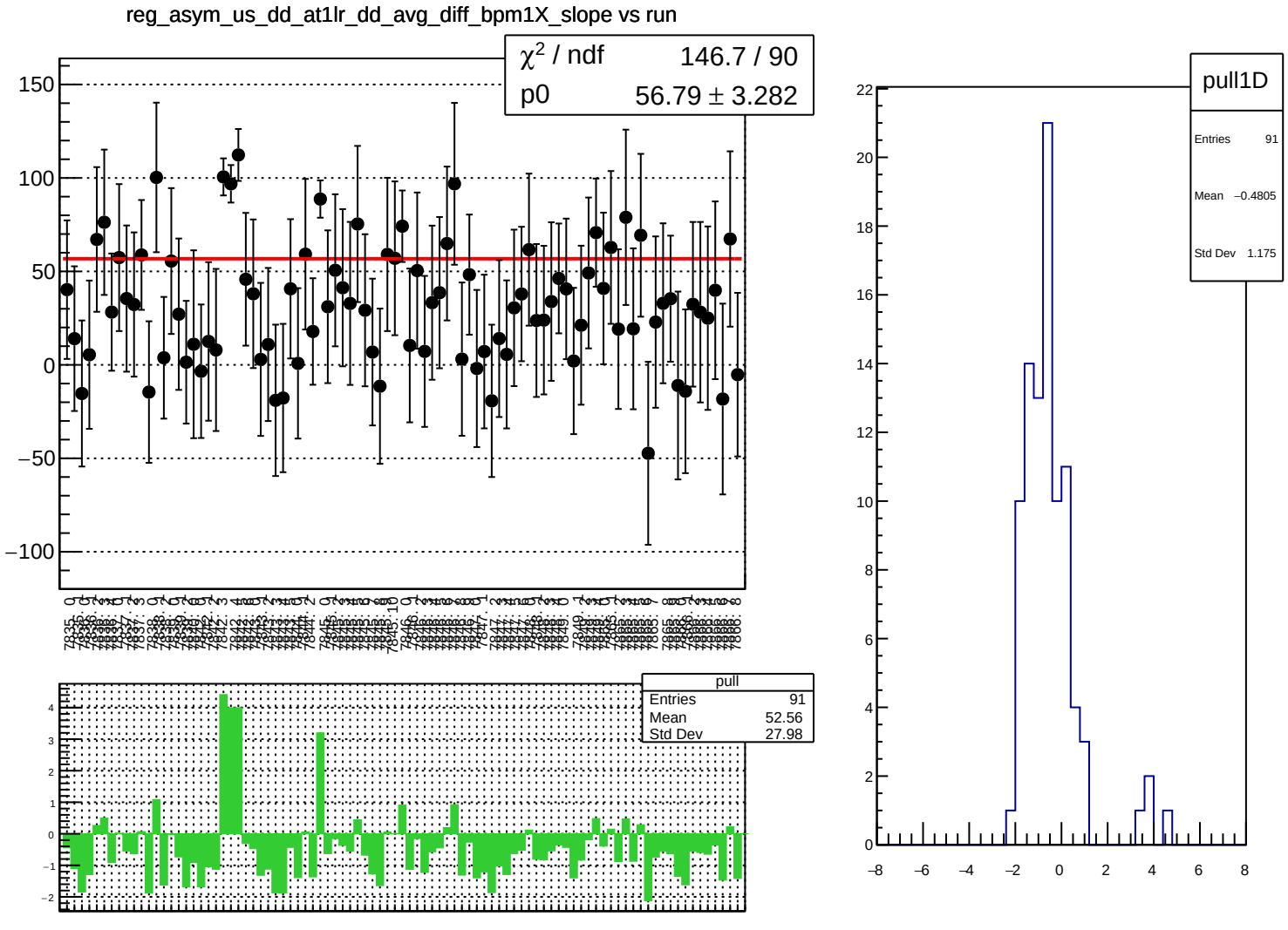

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 166.7 / 90
p0 166.9 ± 6.482
pull
Entries 91
Mean 45.55
Std Dev 28.25
pull1D
Entries 91
Mean −0.5807
Std Dev 1.222

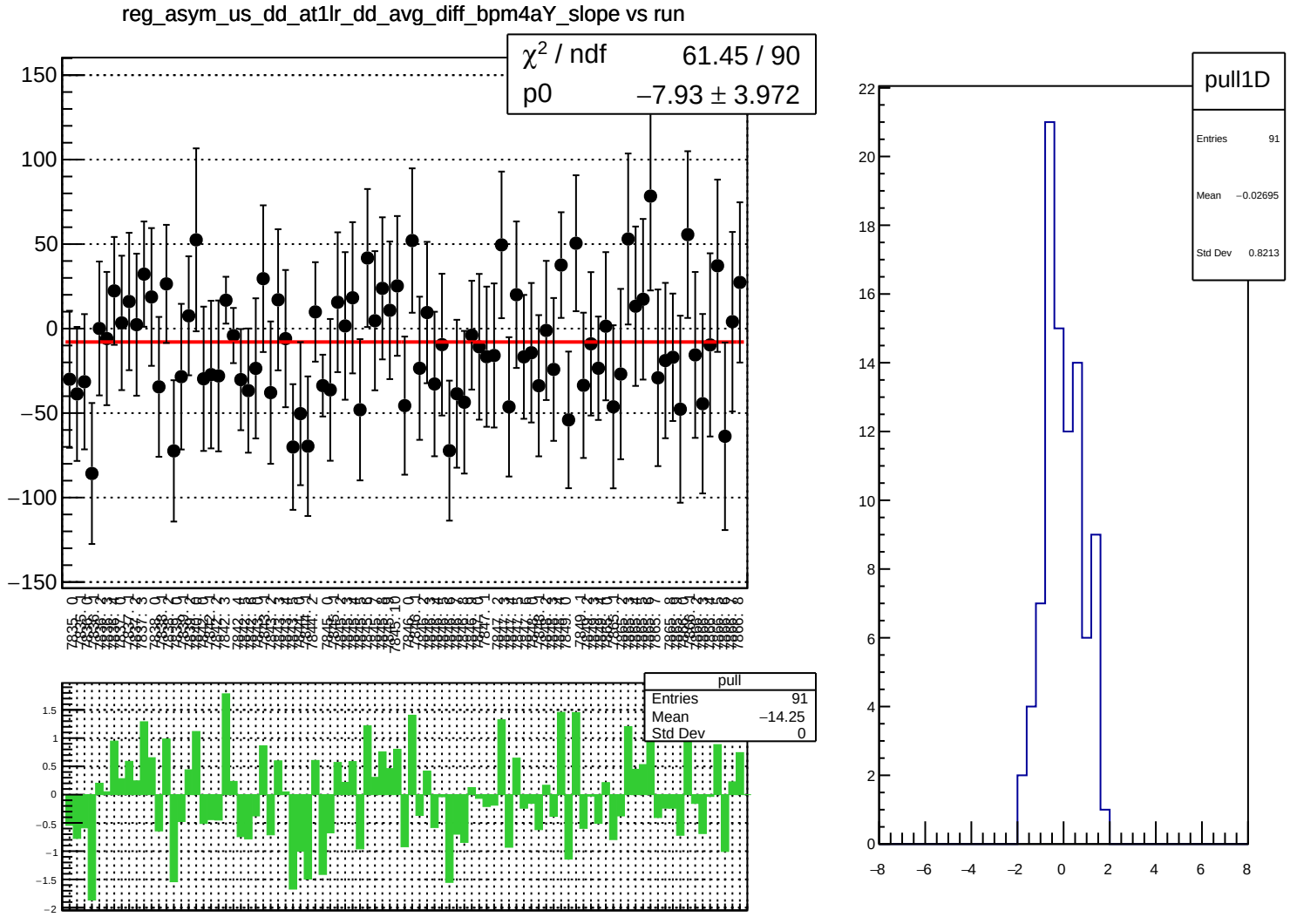

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.403 / 90
p0 −33.01 ± 7.855
pull
Entries 91
Mean 139.4
Std Dev 0
pull1D
Entries 91
Mean −0.004359
Std Dev 0.2199

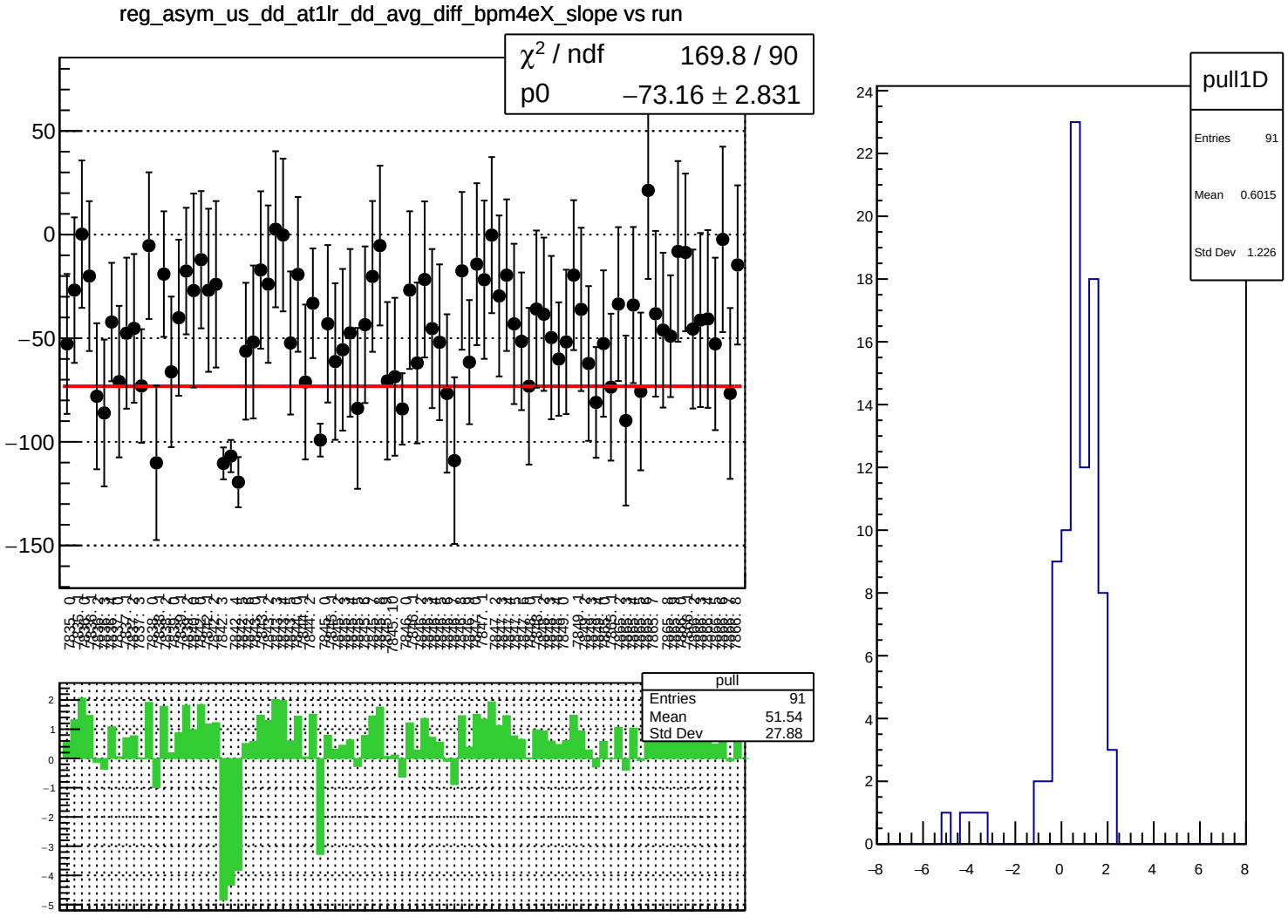

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 209.7 / 90
p0 −173.3 ± 5.588
pull
Entries 91
Mean 46.92
Std Dev 28.36
pull1D
Entries 91
Mean 0.7525
Std Dev 1.318

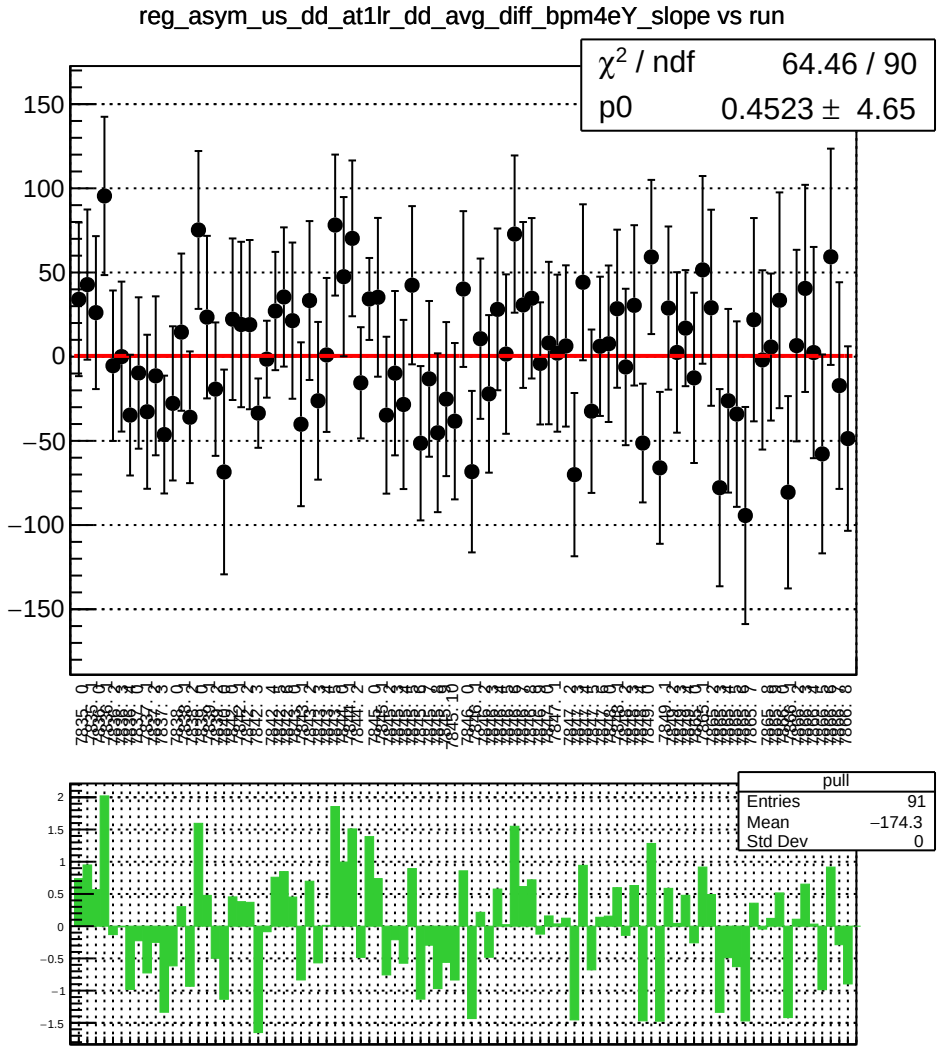

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.601 / 90
p0 −4.849 ± 9.198
pull
Entries 91
Mean 201.1
Std Dev 0
pull1D
Entries 91
Mean 0.009959
Std Dev 0.2246

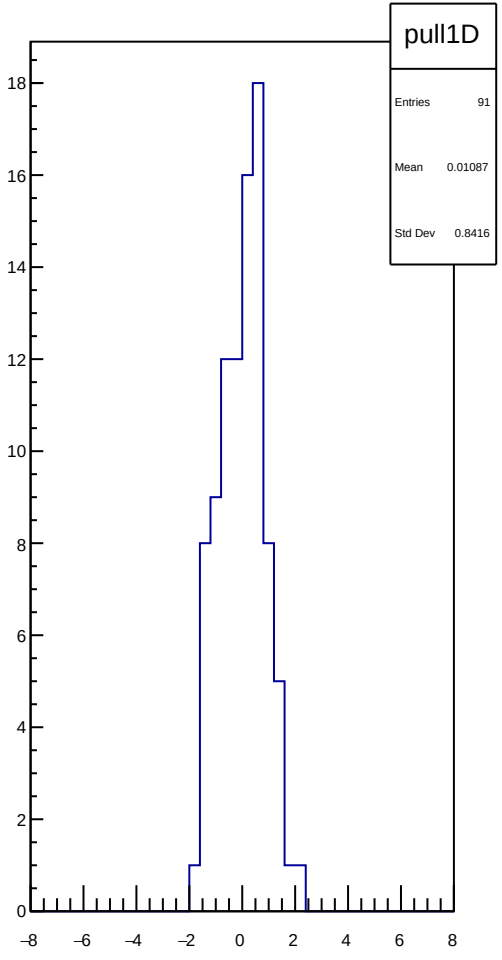

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 198.1 / 90
p0 110 ± 0.2811
pull
Entries 91
Mean 23.97
Std Dev 0
pull1D
Entries 91
Mean 0.05773
Std Dev 1.474

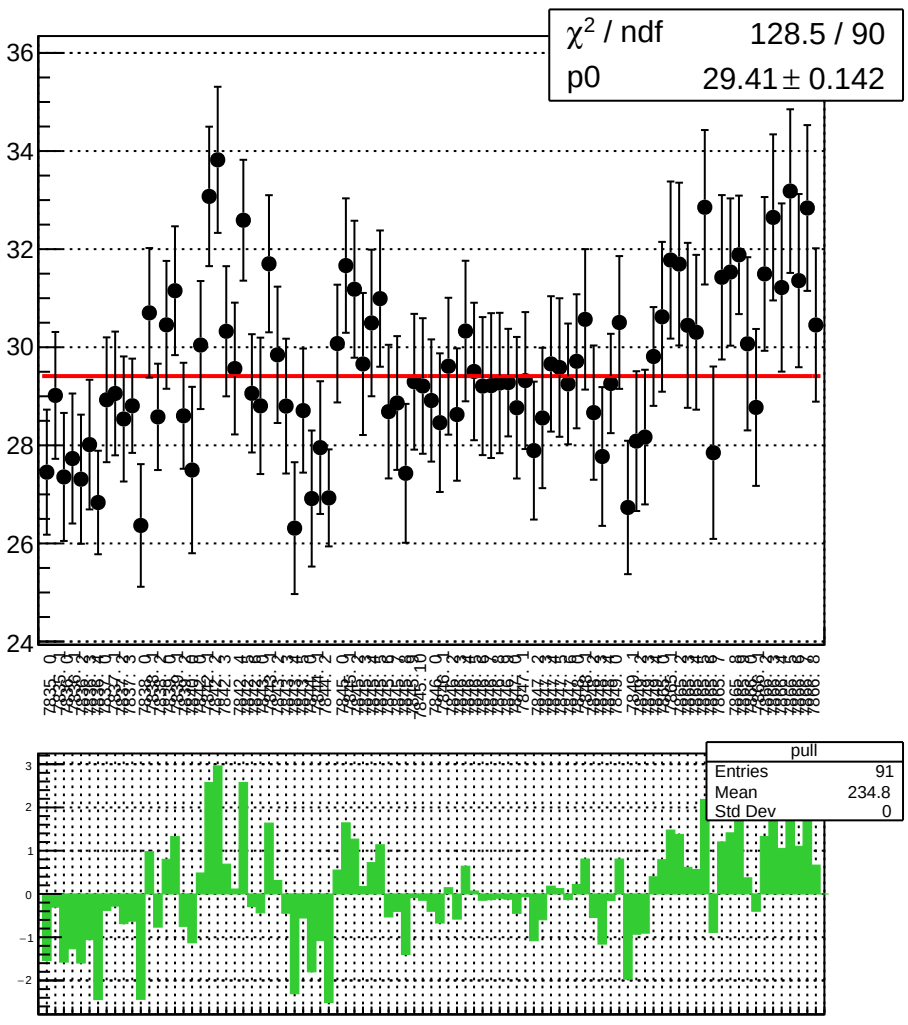

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 146.7 / 90
p0 56.79 ± 3.282
pull
Entries 91
Mean 52.56
Std Dev 27.98
pull1D
Entries 91
Mean −0.4805
Std Dev 1.175

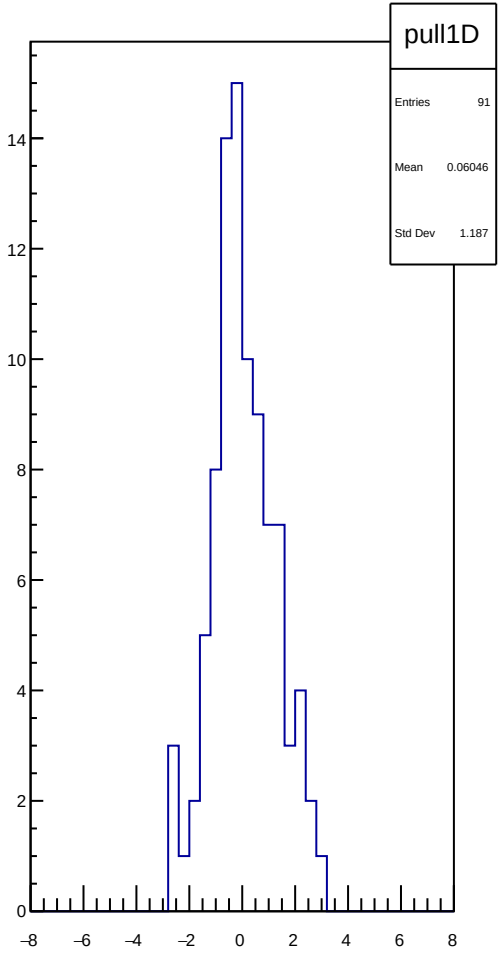

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.45 / 90
p0 −7.93 ± 3.972
pull
Entries 91
Mean −14.25
Std Dev 0
pull1D
Entries 91
Mean −0.02695
Std Dev 0.8213

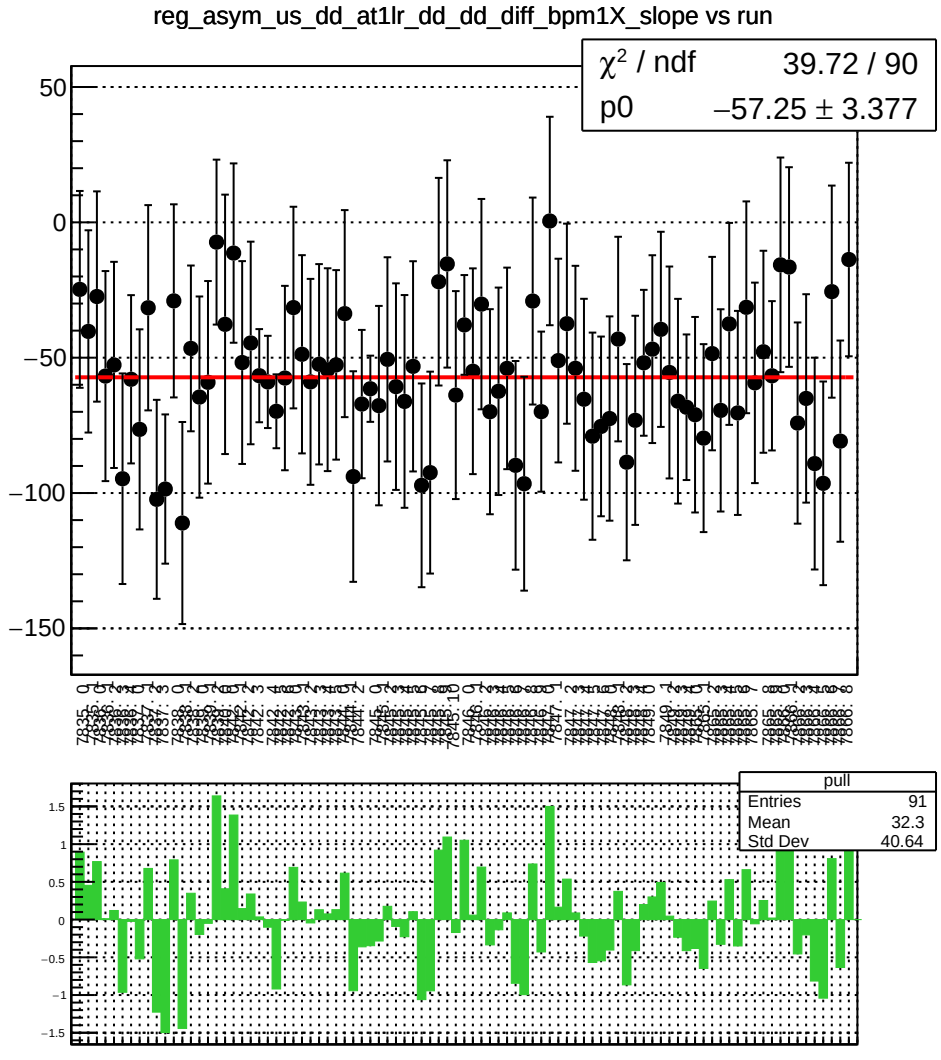

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 169.8 / 90
p0 −73.16 ± 2.831
pull
Entries 91
Mean 51.54
Std Dev 27.88
pull1D
Entries 91
Mean 0.6015
Std Dev 1.226

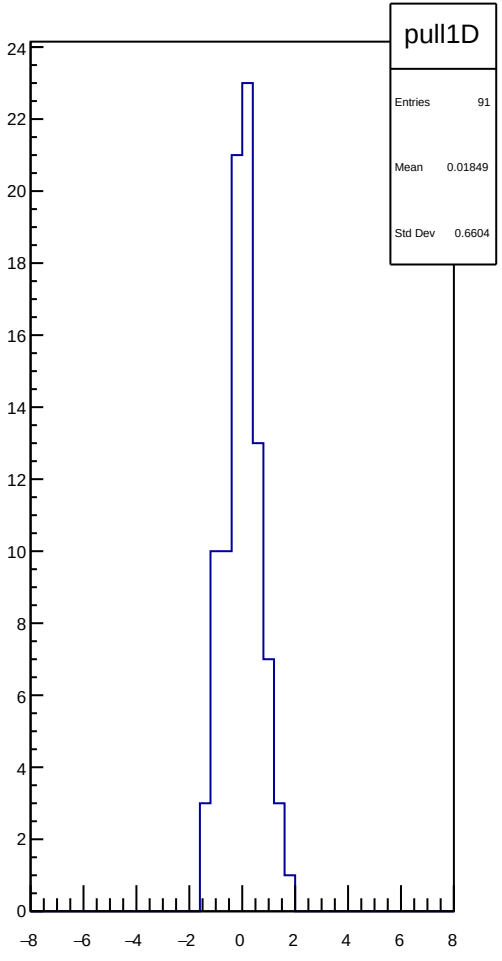

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.46 / 90
p0 0.4523 ± 4.65
pull
Entries 91
Mean −174.3
Std Dev 0

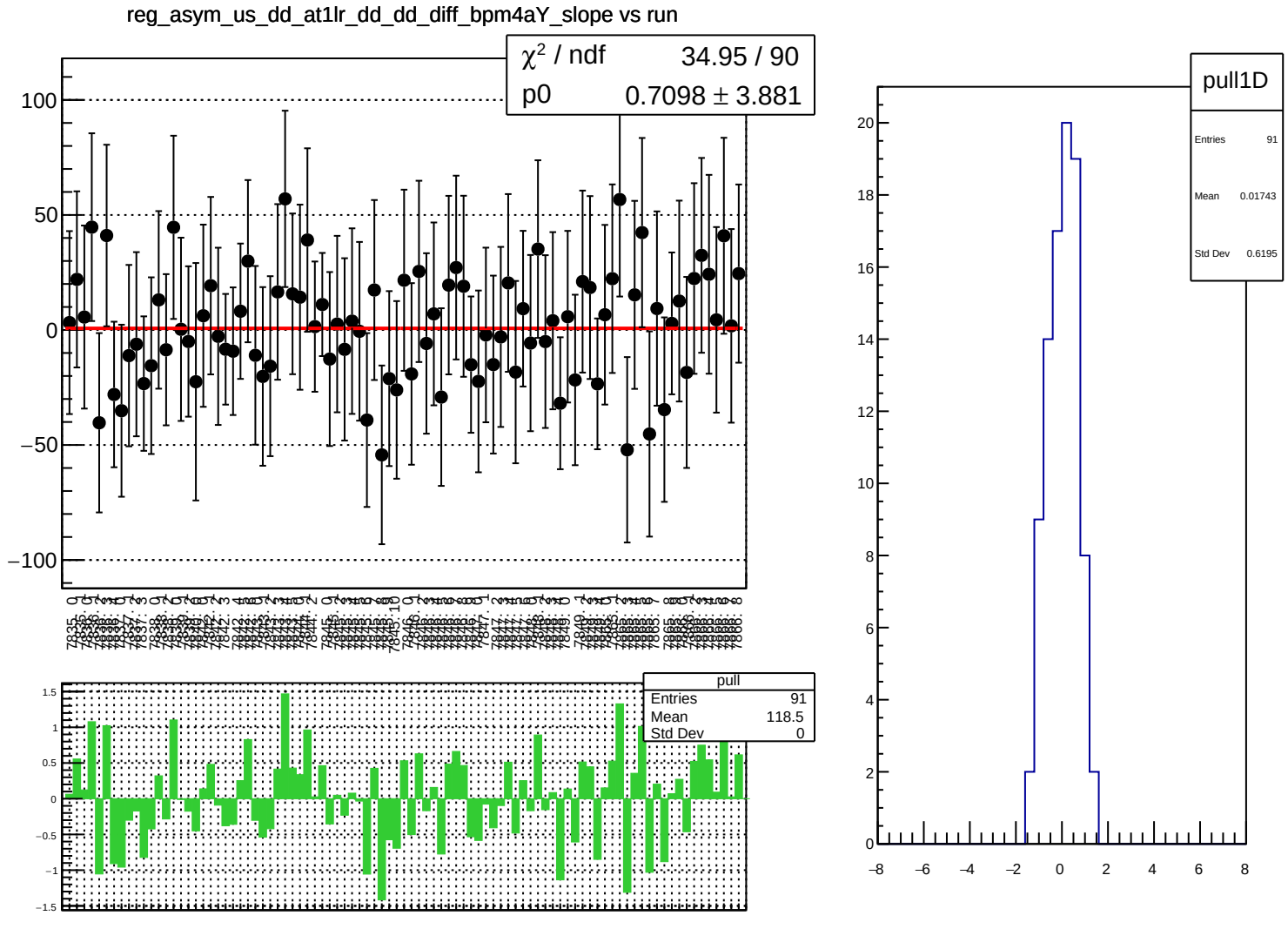

pull1D
Entries 91
Mean 0.01087
Std Dev 0.8416

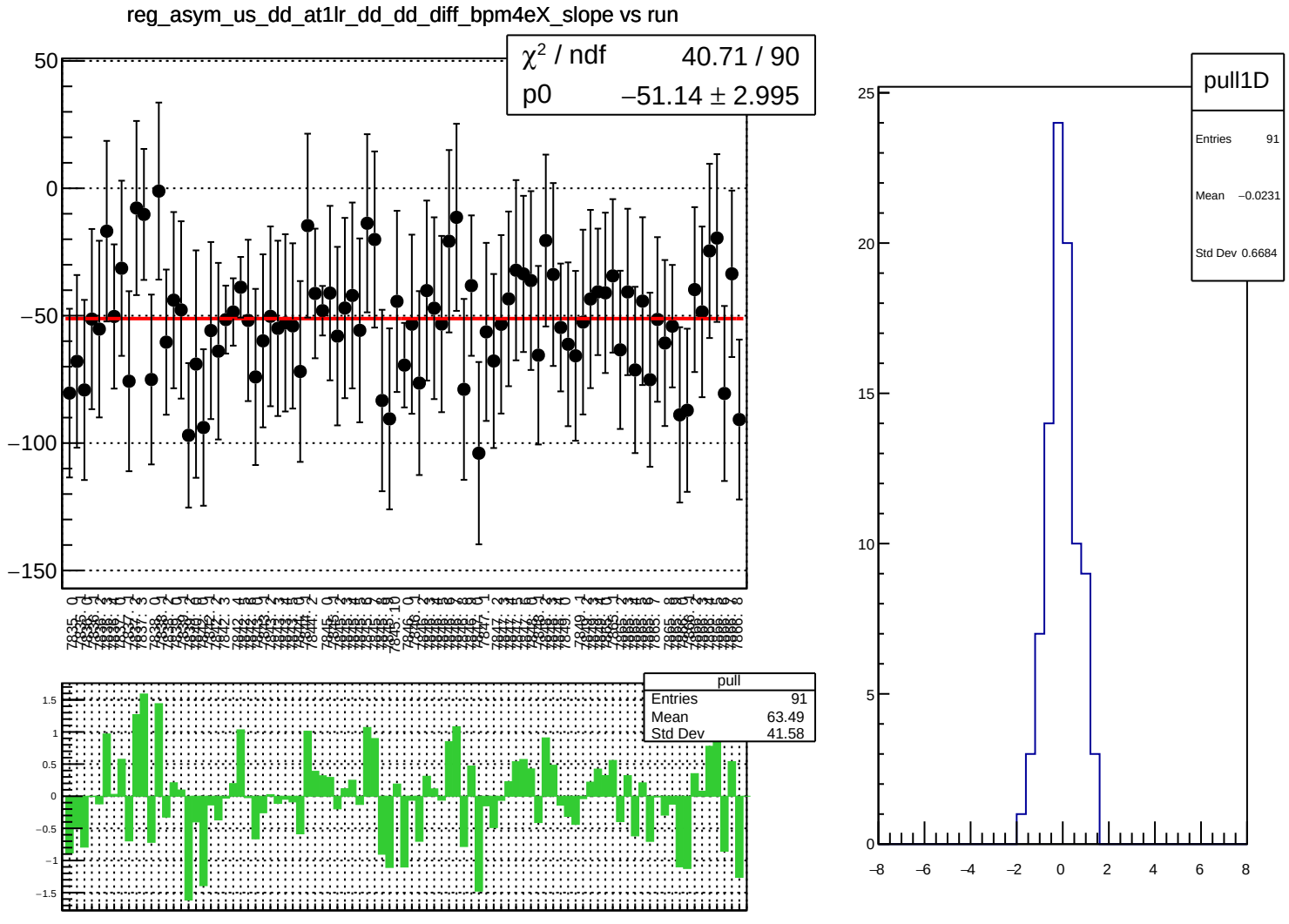

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 128.5 / 90
p0 29.41 ± 0.142
pull
Entries 91
Mean 234.8
Std Dev 0

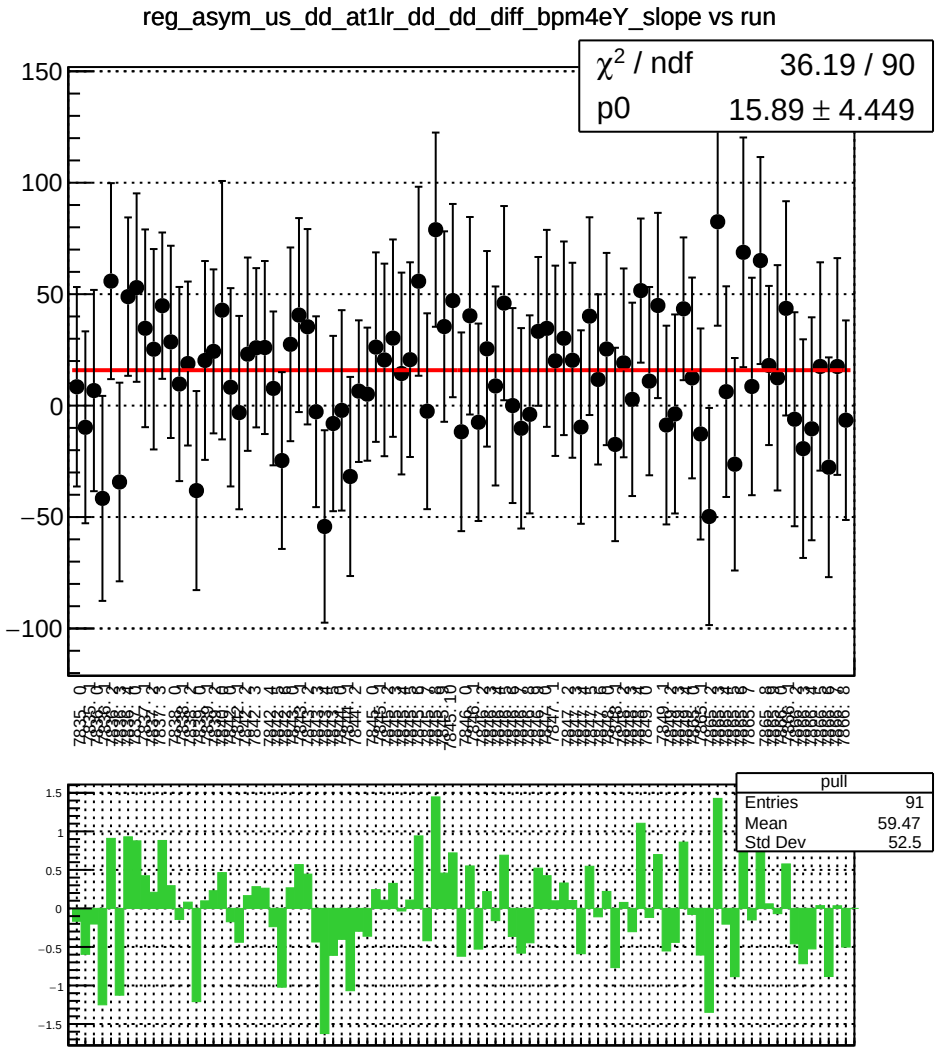

pull1D
Entries 91
Mean 0.06046
Std Dev 1.187

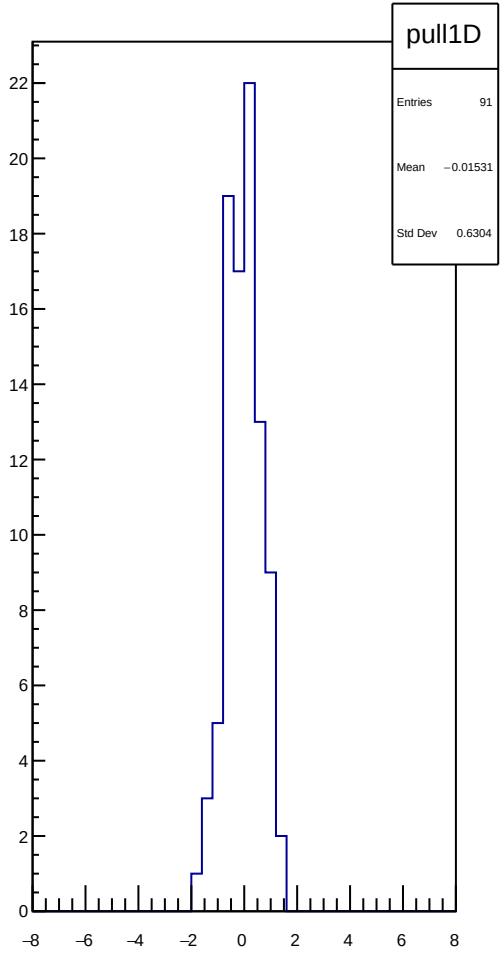

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 39.72 / 90
p0 −57.25 ± 3.377
pull
Entries 91
Mean 32.3
Std Dev 40.64

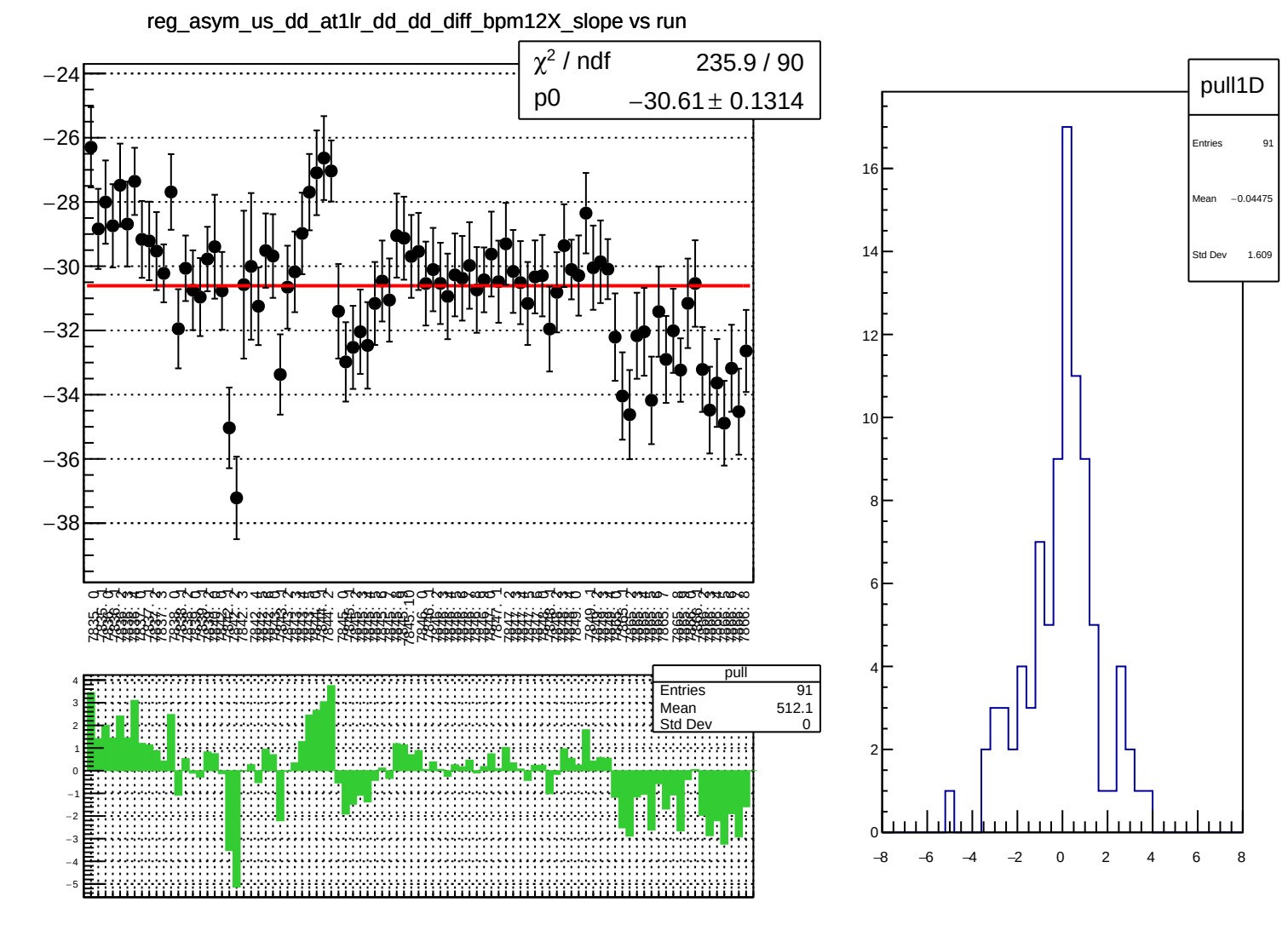

pull1D
Entries 91
Mean 0.01849
Std Dev 0.6604

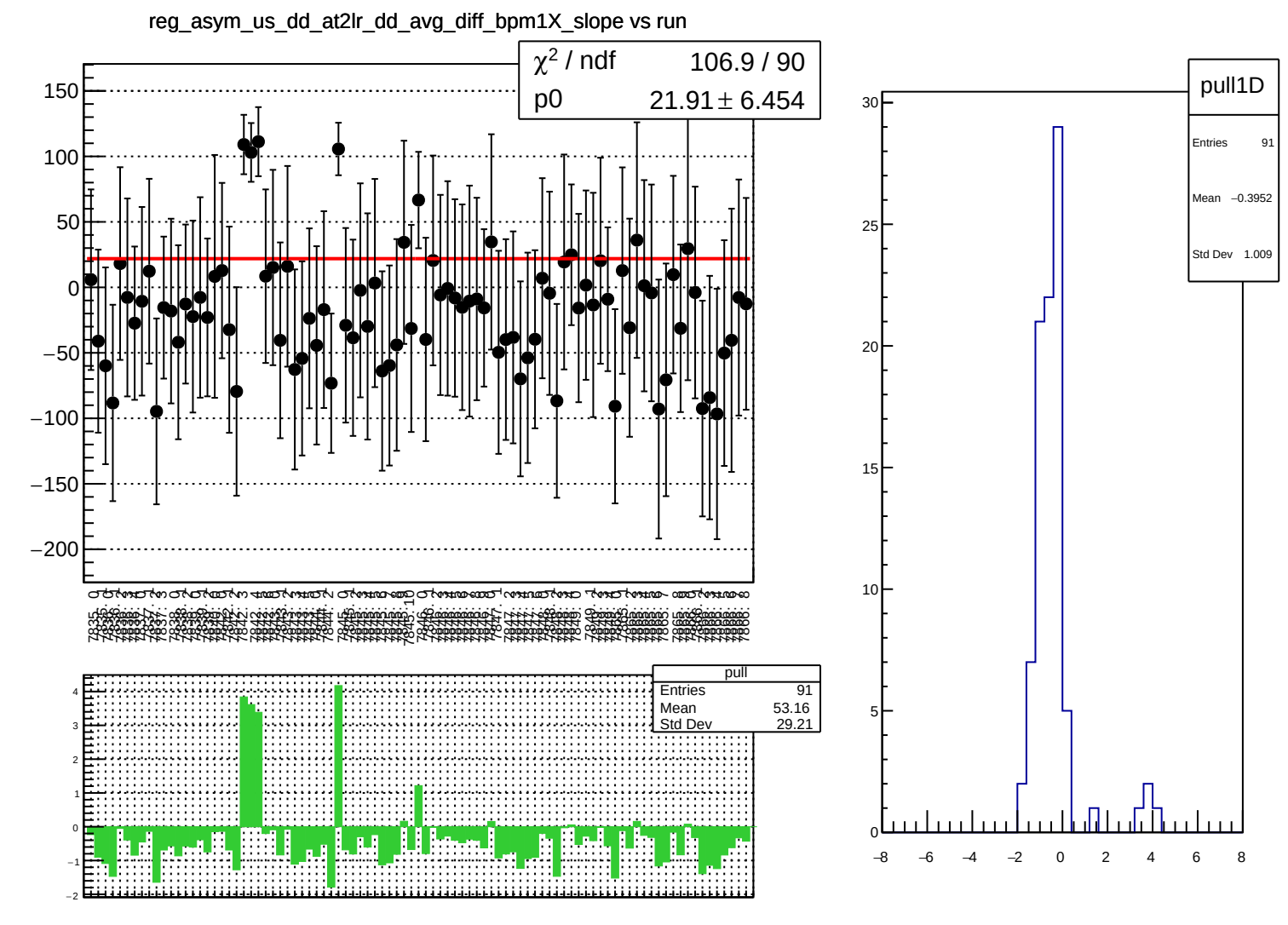

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.95 / 90
p0 0.7098 ± 3.881
100
50
0
−50
−100
pull
Entries 91
Mean 118.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01743
Std Dev 0.6195
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

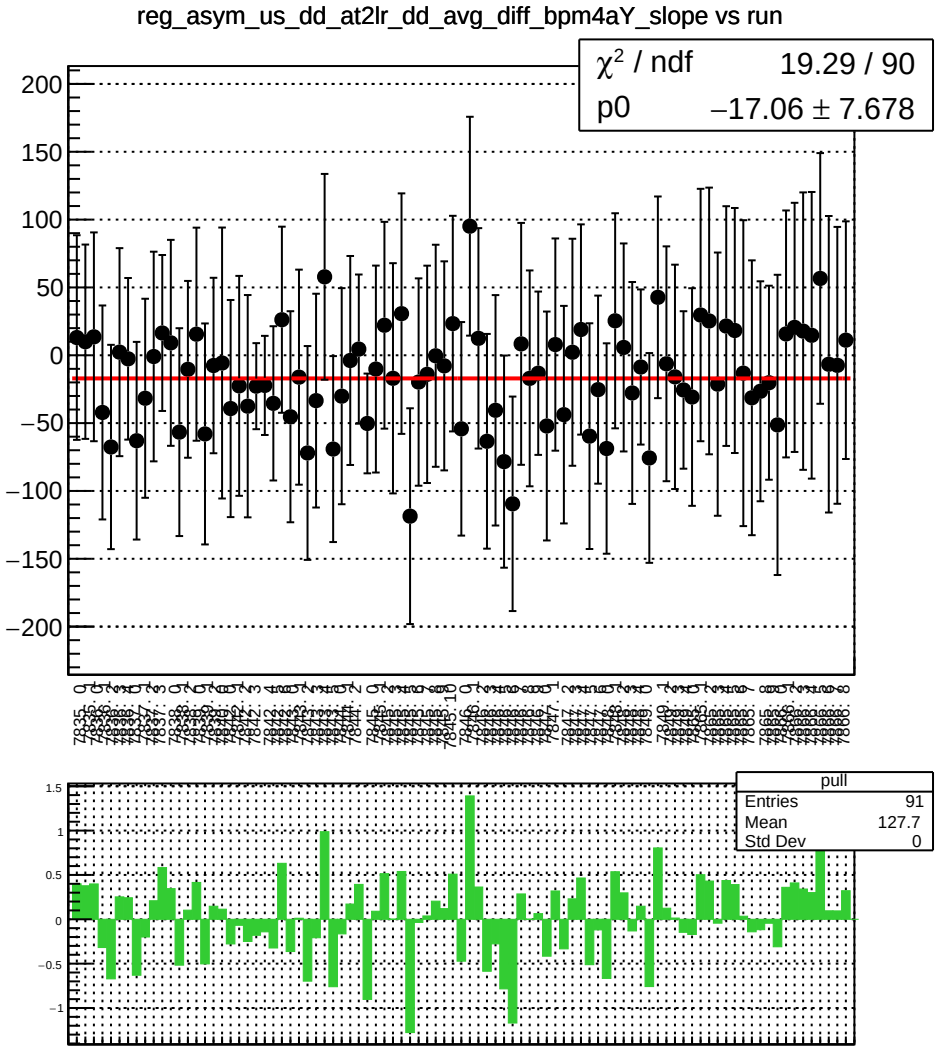

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.71 / 90
p0 −51.14 ± 2.995
pull
Entries 91
Mean 63.49
Std Dev 41.58
pull1D
Entries 91
Mean −0.0231
Std Dev 0.6684

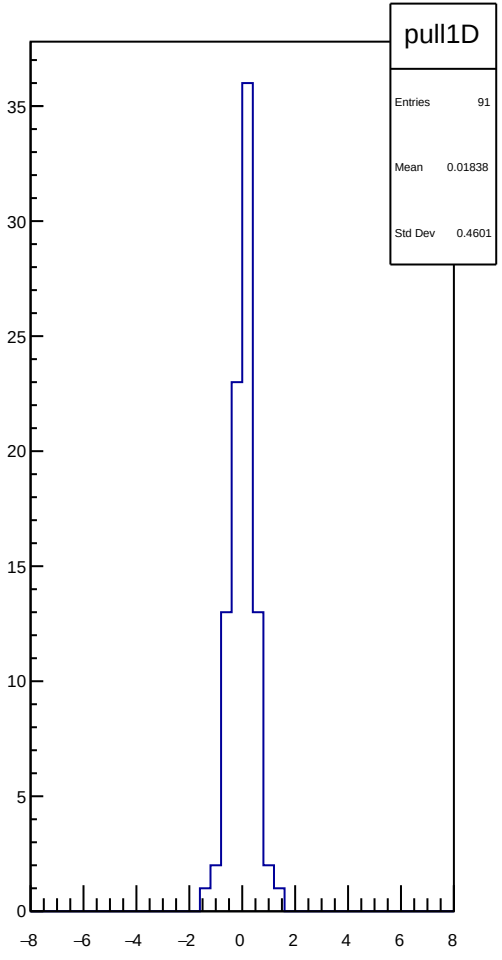

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.19 / 90
p0 15.89 ± 4.449
150
100
50
0
−50
−100
pull
Entries 91
Mean 59.47
Std Dev 52.5
1.5
1
0.5
0
−0.5
−1
−1.5

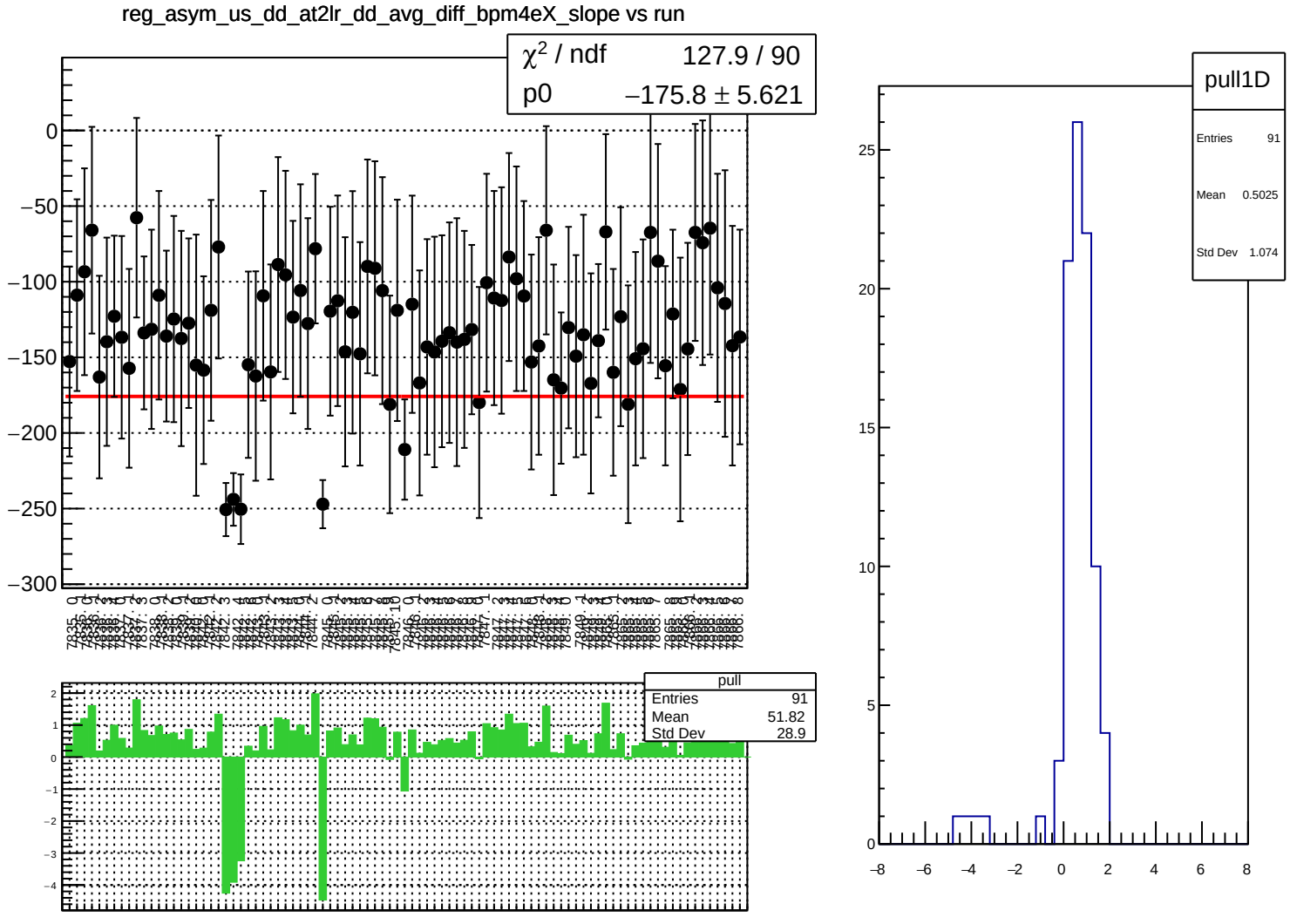

pull1D
Entries 91
Mean −0.01531
Std Dev 0.6304
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

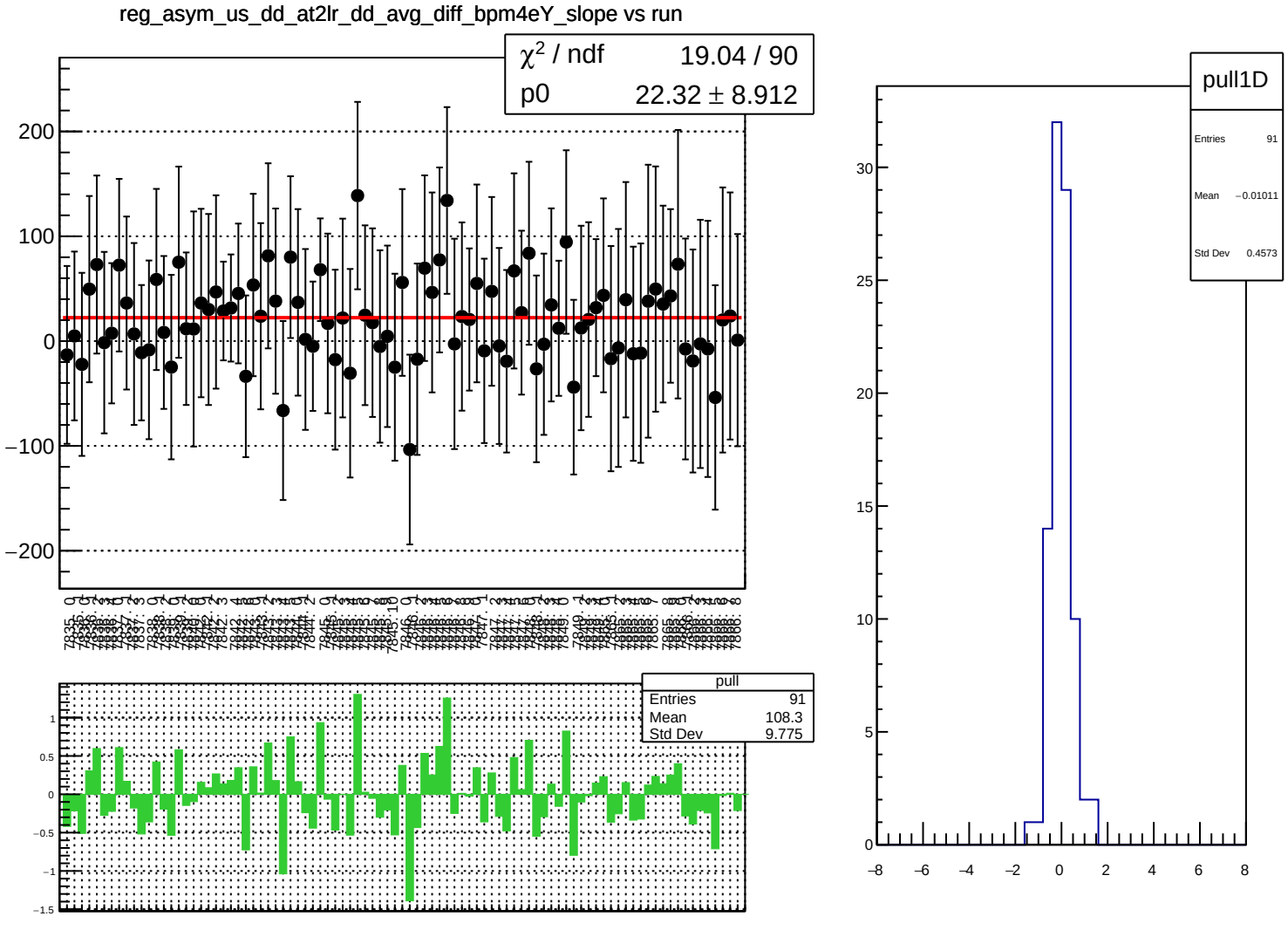

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 235.9 / 90
p0 −30.61 ± 0.1314
pull
Entries 91
Mean 512.1
Std Dev 0
pull1D
Entries 91
Mean −0.04475
Std Dev 1.609

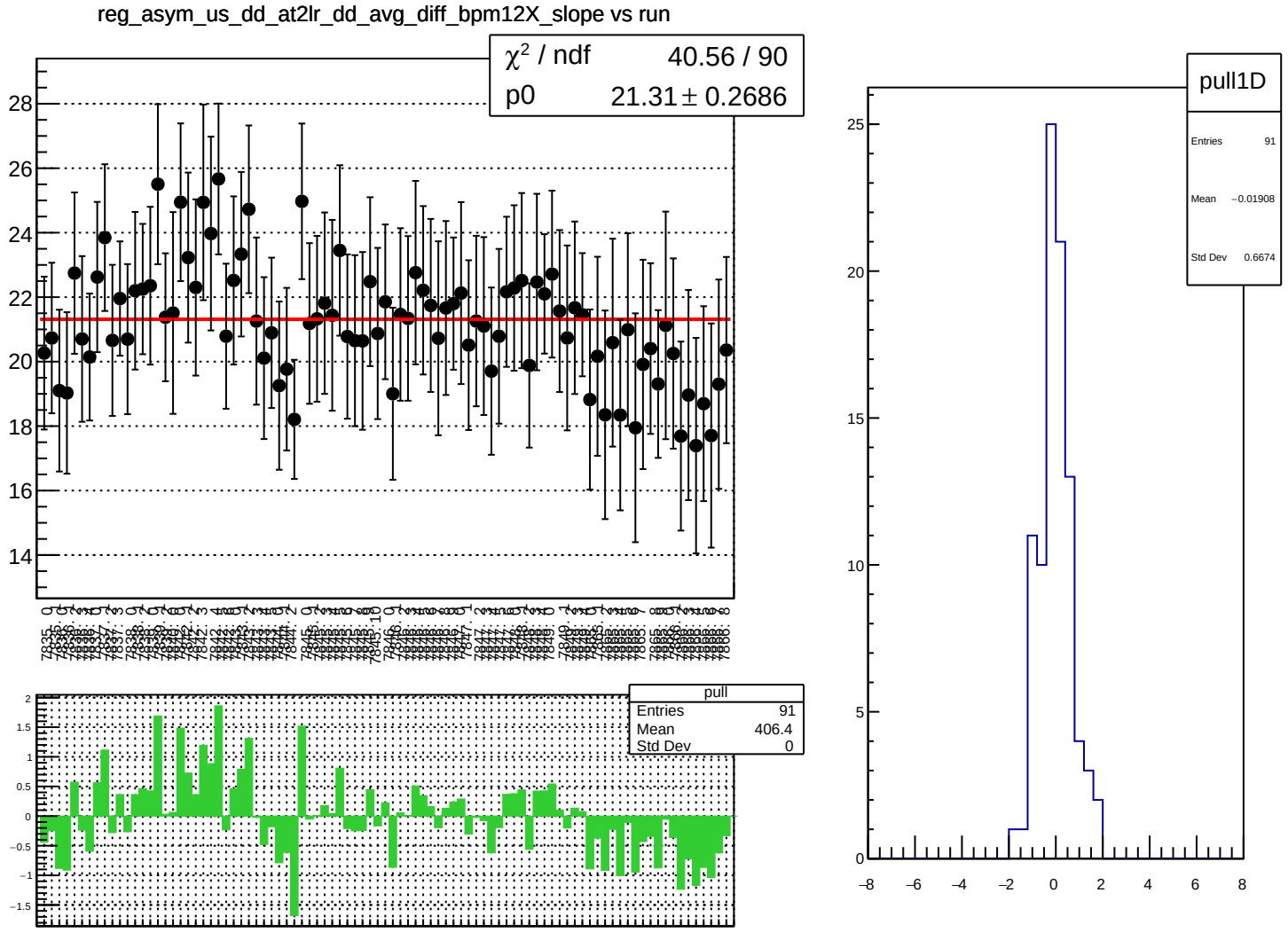

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 106.9 / 90
p0 21.91 ± 6.454
pull
Entries 91
Mean 53.16
Std Dev 29.21
pull1D
Entries 91
Mean −0.3952
Std Dev 1.009

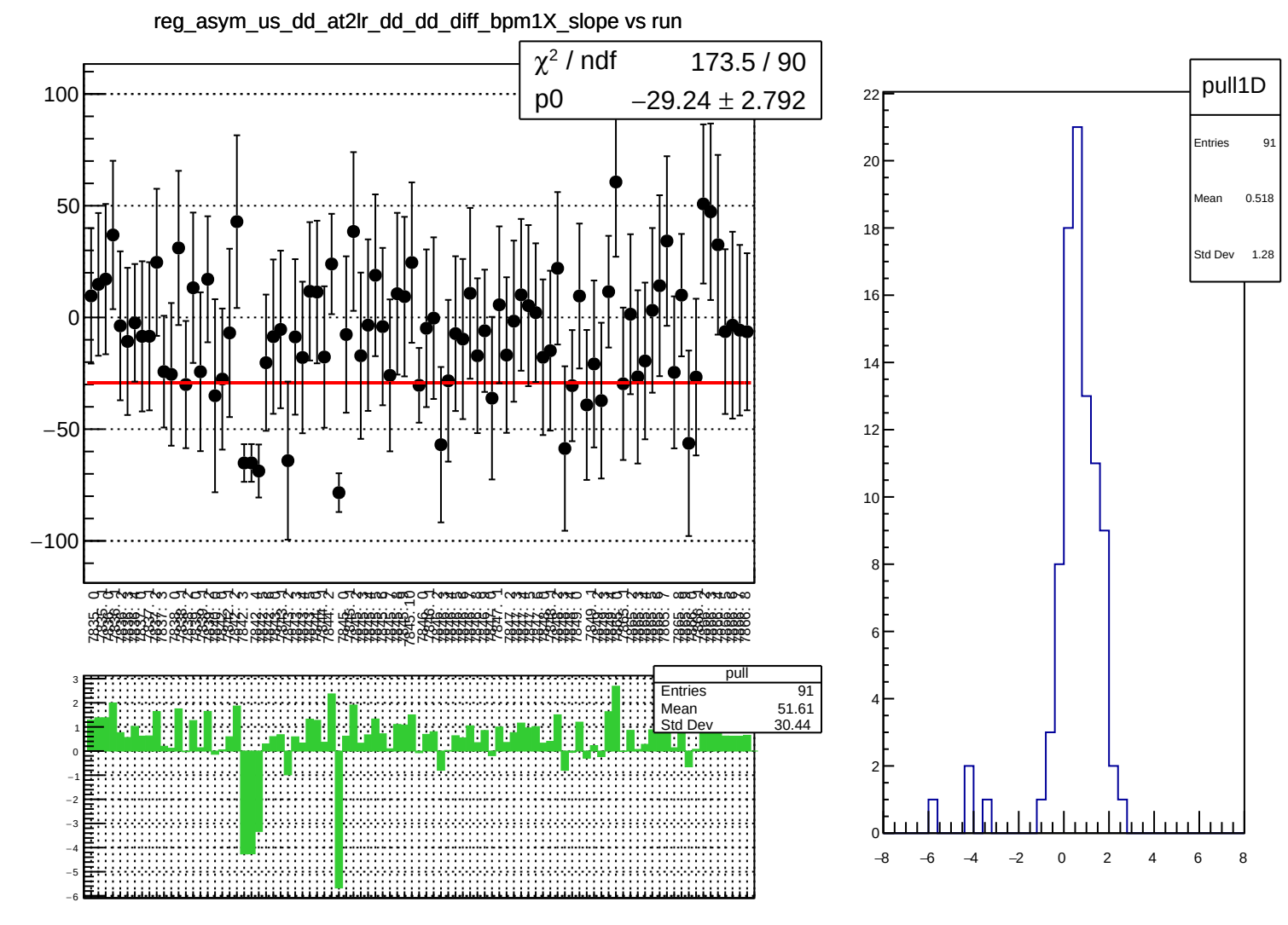

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.29 / 90
p0 −17.06 ± 7.678
pull
Entries 91
Mean 127.7
Std Dev 0

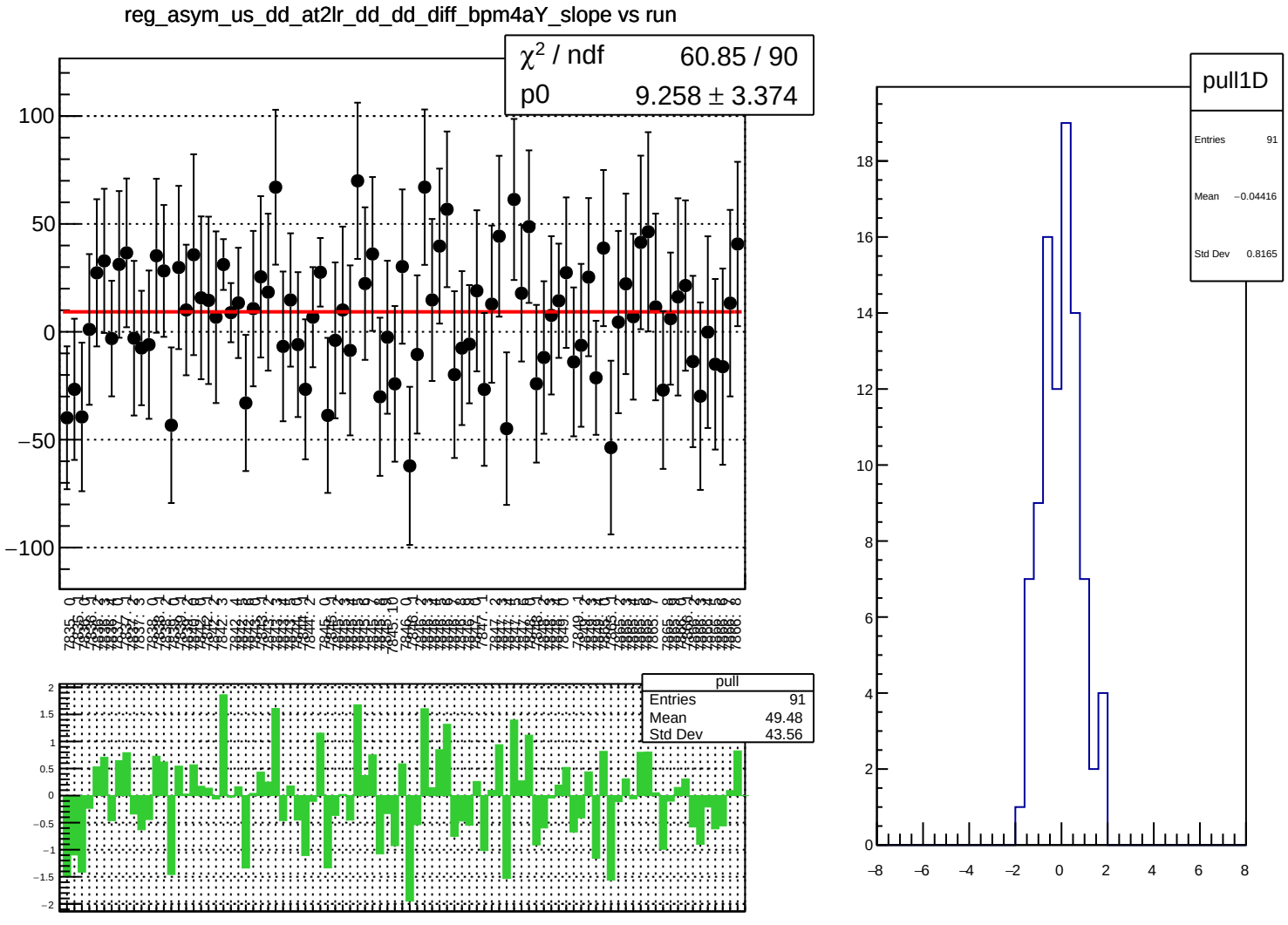

pull1D
Entries 91
Mean 0.01838
Std Dev 0.4601

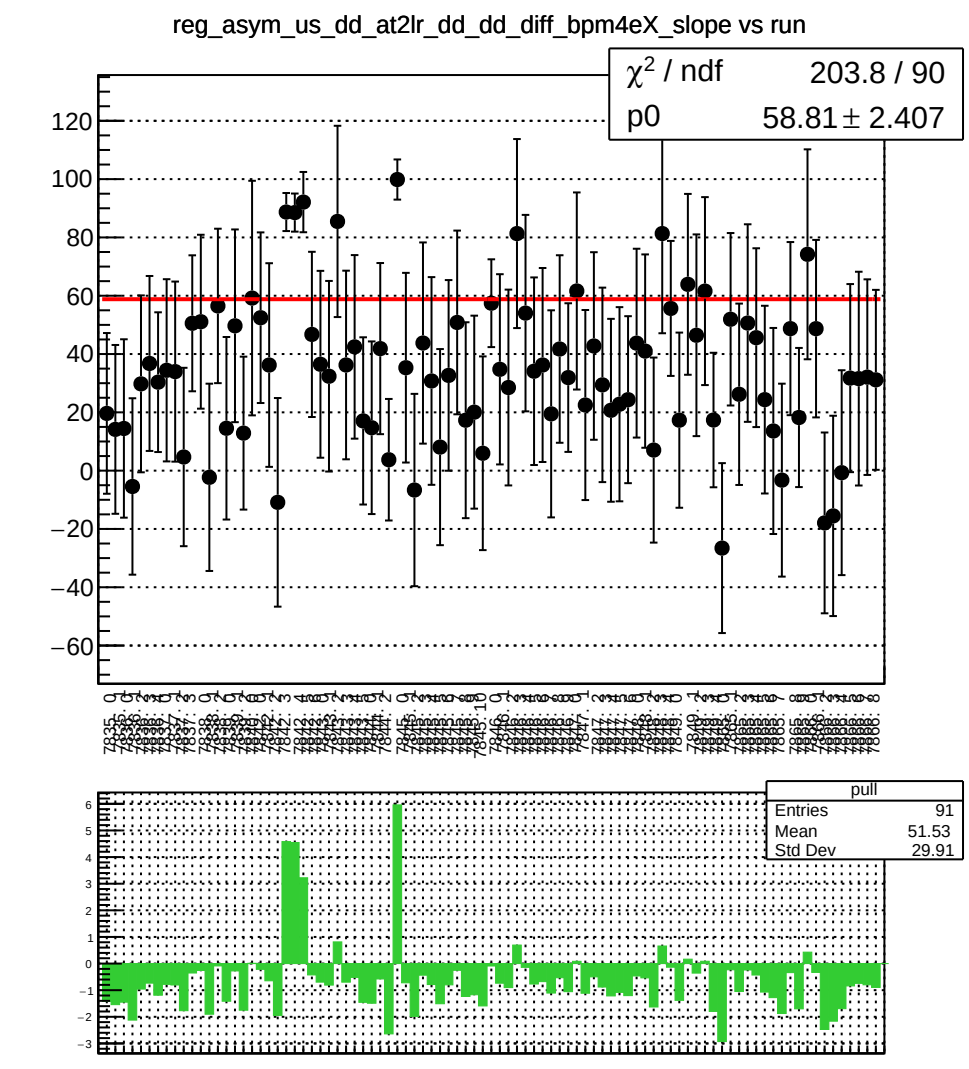

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 127.9 / 90
p0 −175.8 ± 5.621
pull
Entries 91
Mean 51.82
Std Dev 28.9
pull1D
Entries 91
Mean 0.5025
Std Dev 1.074

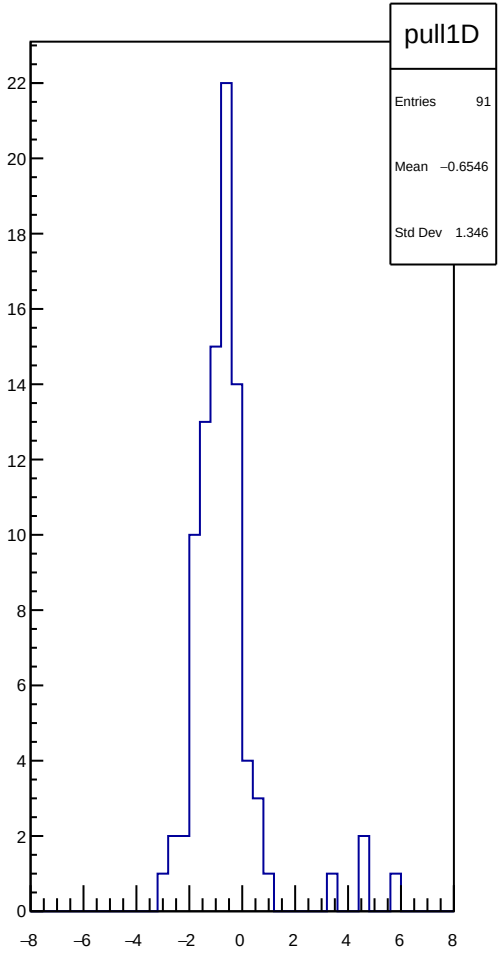

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.04 / 90
p0 22.32 ± 8.912
200
100
0
−100
−200
pull
Entries 91
Mean 108.3
Std Dev 9.775
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.01011
Std Dev 0.4573
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

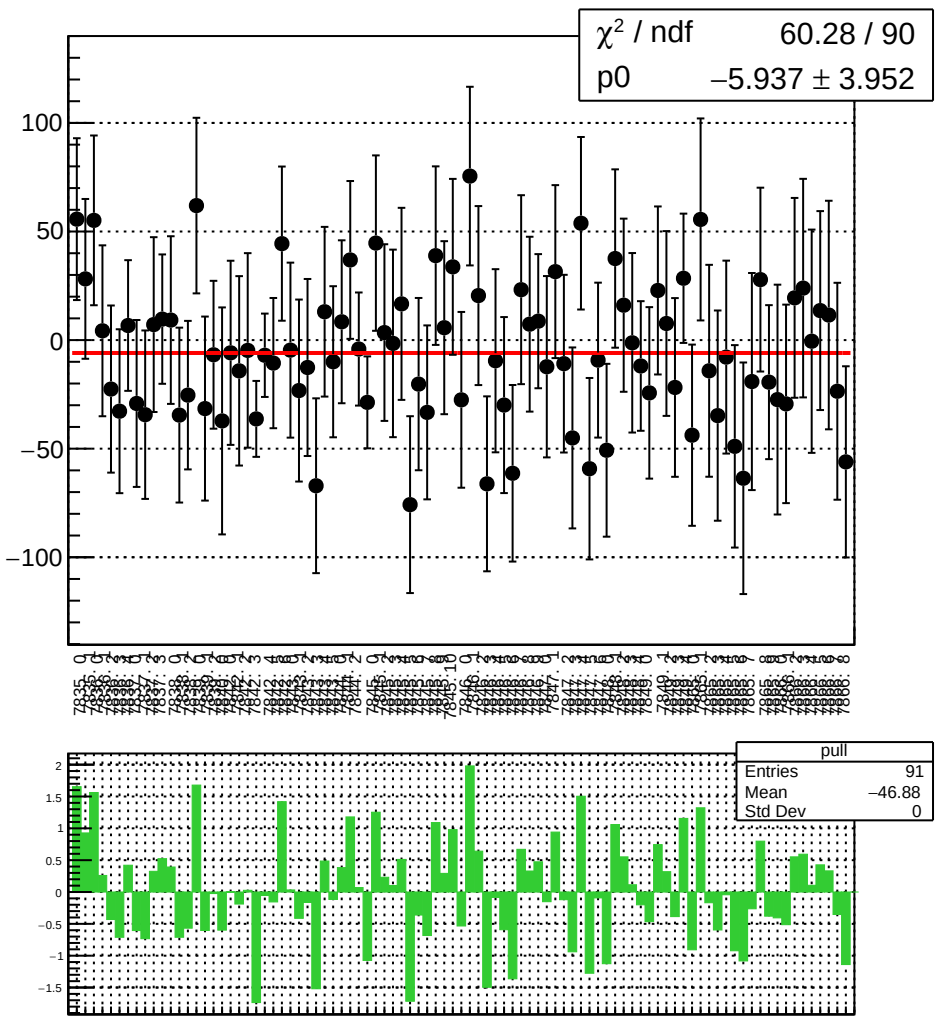

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 40.56 / 90
p0 21.31 ± 0.2686
pull
Entries 91
Mean 406.4
Std Dev 0
pull1D
Entries 91
Mean −0.01908
Std Dev 0.6674

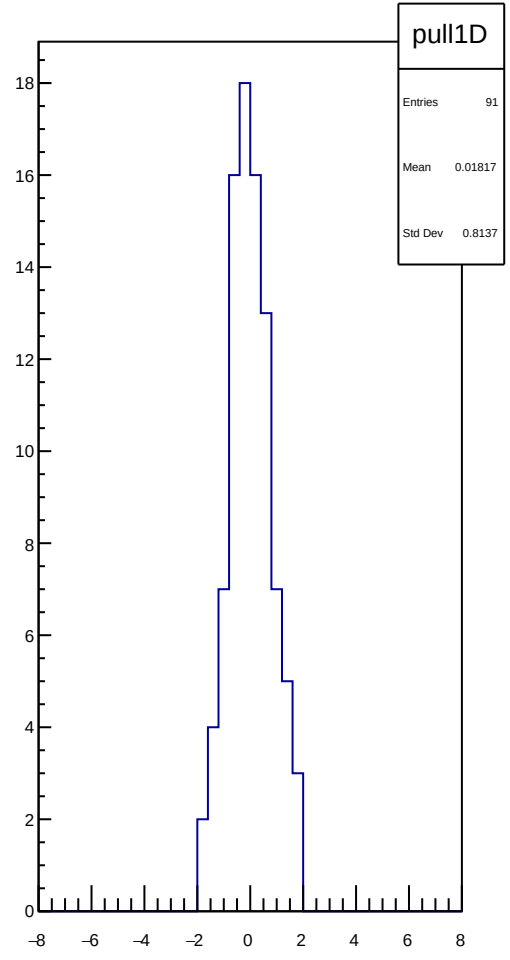

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 173.5 / 90
p0 −29.24 ± 2.792
pull
Entries 91
Mean 51.61
Std Dev 30.44
pull1D
Entries 91
Mean 0.518
Std Dev 1.28

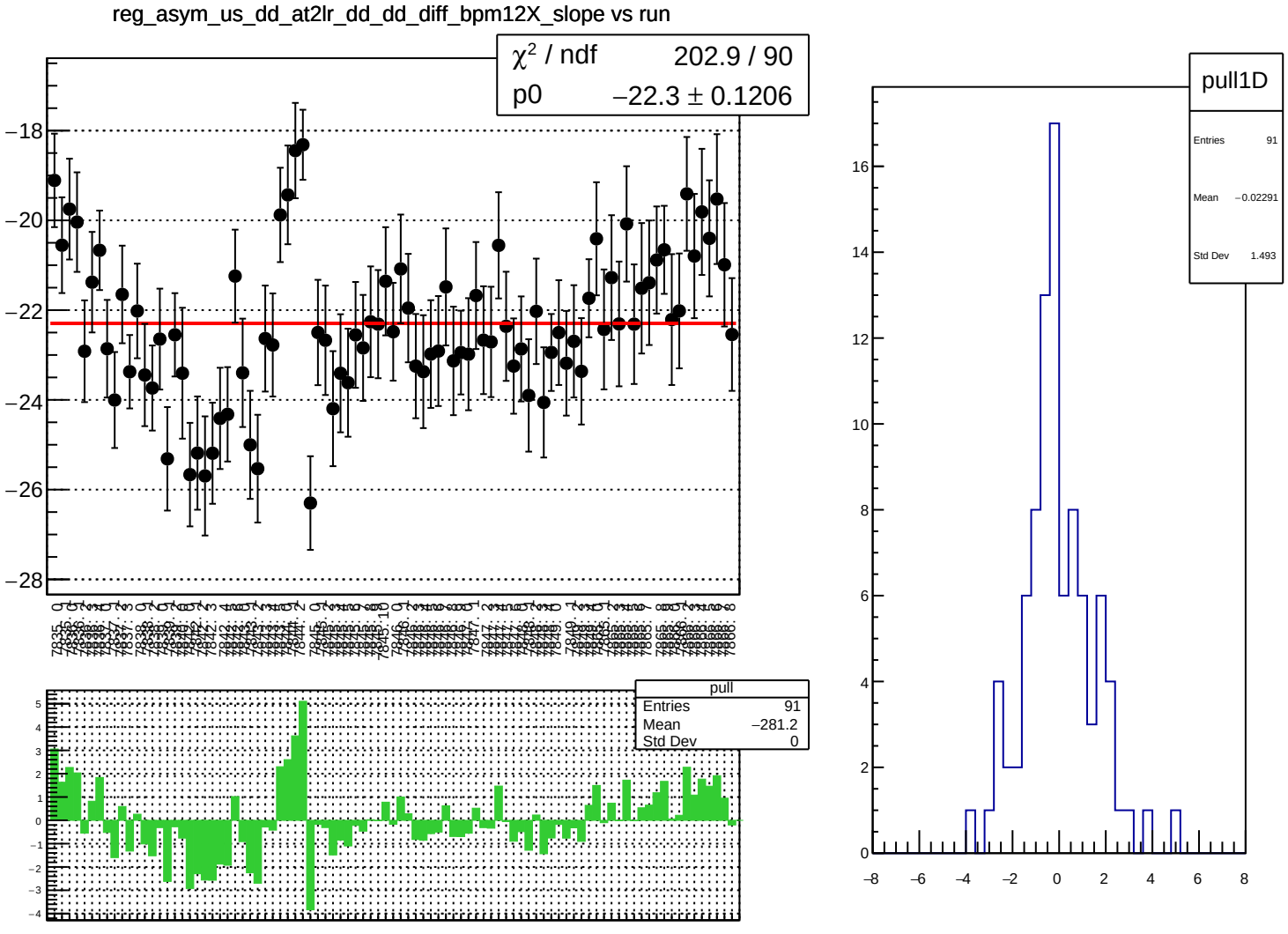

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.85 / 90
p0 9.258 ± 3.374
pull
Entries 91
Mean 49.48
Std Dev 43.56
pull1D
Entries 91
Mean −0.04416
Std Dev 0.8165

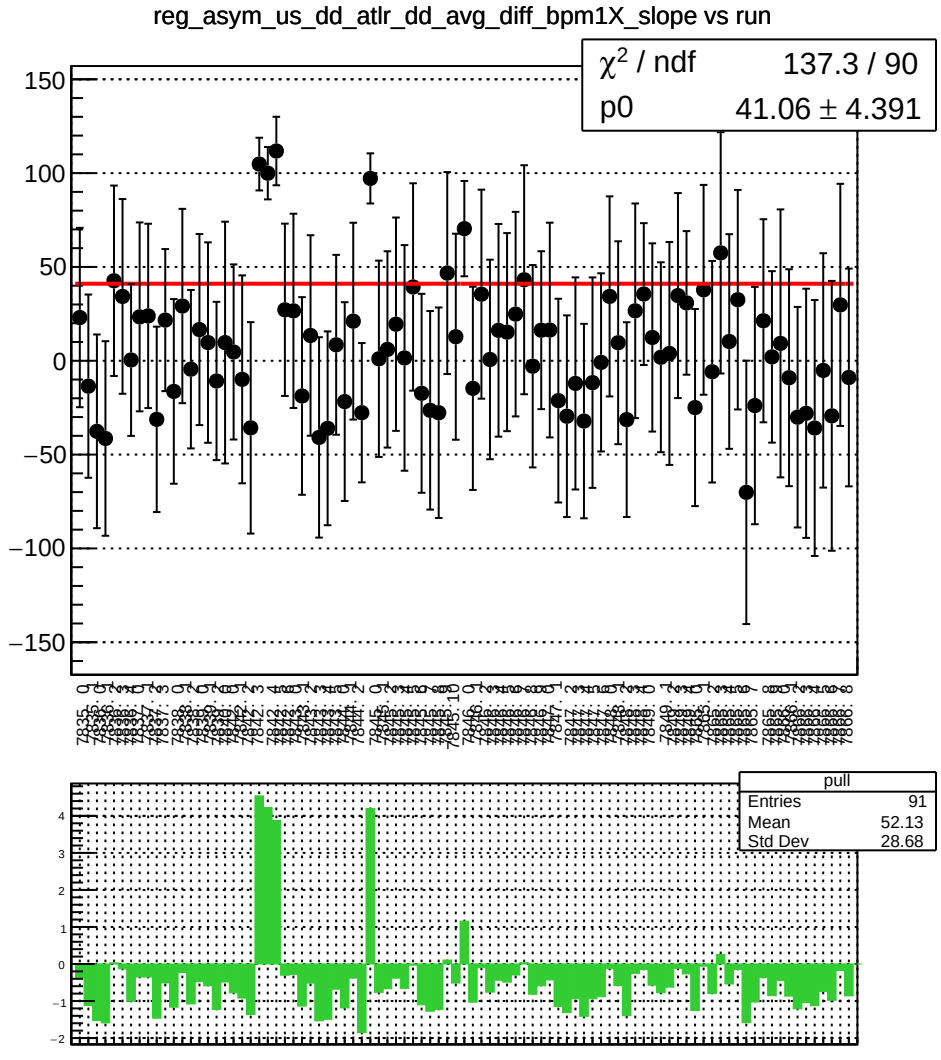

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 203.8 / 90
p0 58.81 ± 2.407
pull
Entries 91
Mean 51.53
Std Dev 29.91

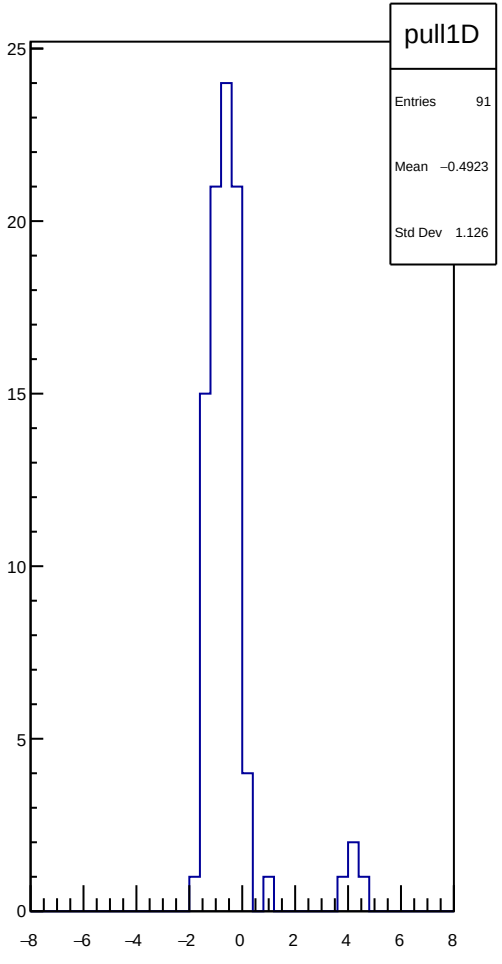

pull1D
Entries 91
Mean −0.6546
Std Dev 1.346

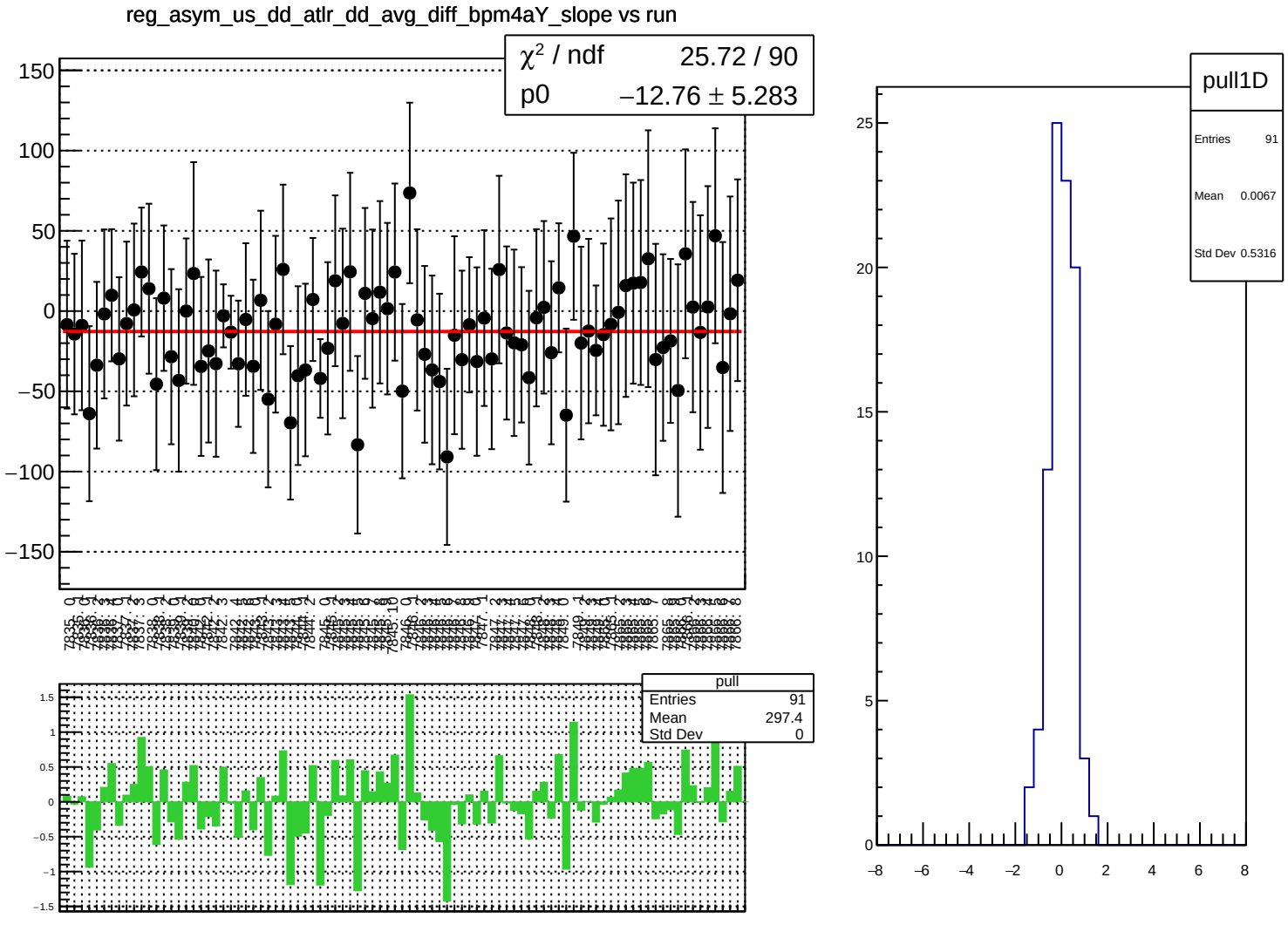

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.28 / 90
p0 −5.937 ± 3.952
100
50
0
−50
−100
pull
Entries 91
Mean −46.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

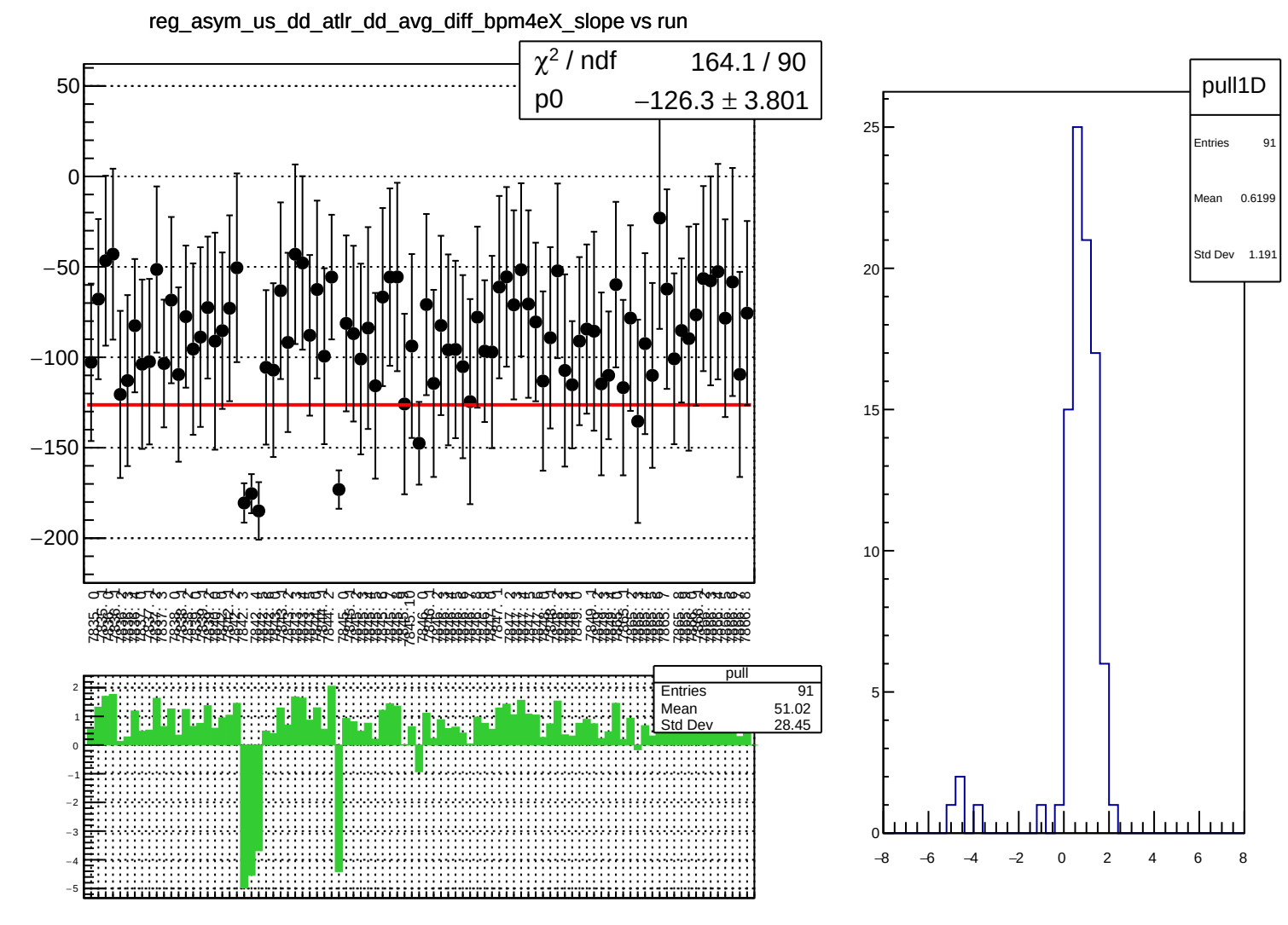

pull1D
Entries 91
Mean 0.01817
Std Dev 0.8137
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

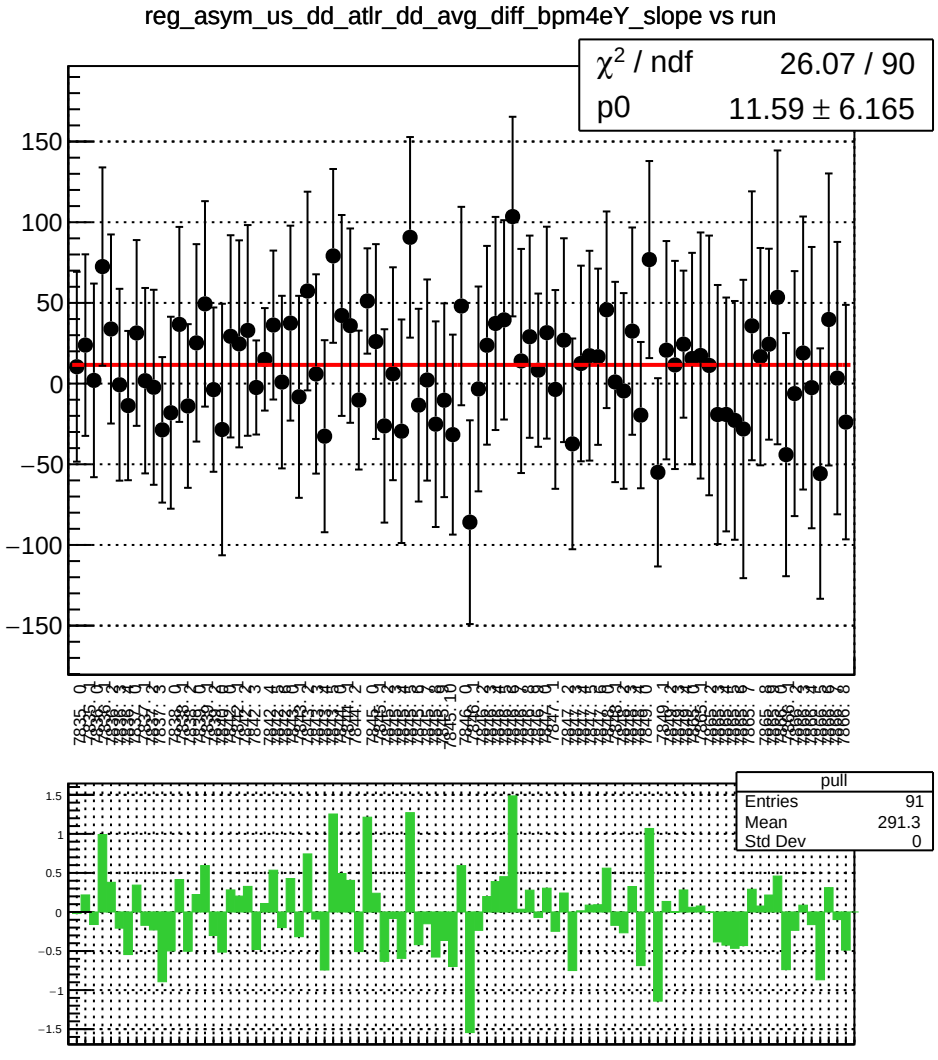

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 202.9 / 90
p0 −22.3 ± 0.1206
pull
Entries 91
Mean −281.2
Std Dev 0
pull1D
Entries 91
Mean −0.02291
Std Dev 1.493

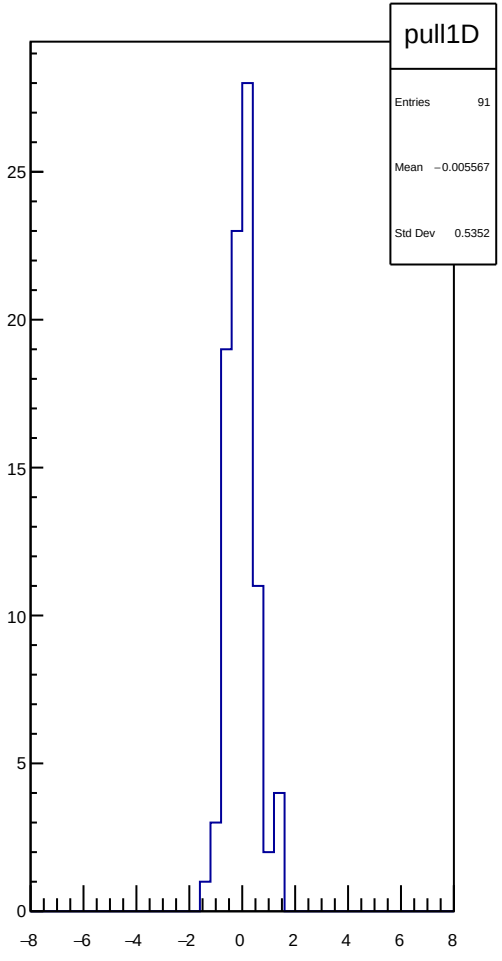

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 137.3 / 90
p0 41.06 ± 4.391
pull
Entries 91
Mean 52.13
Std Dev 28.68

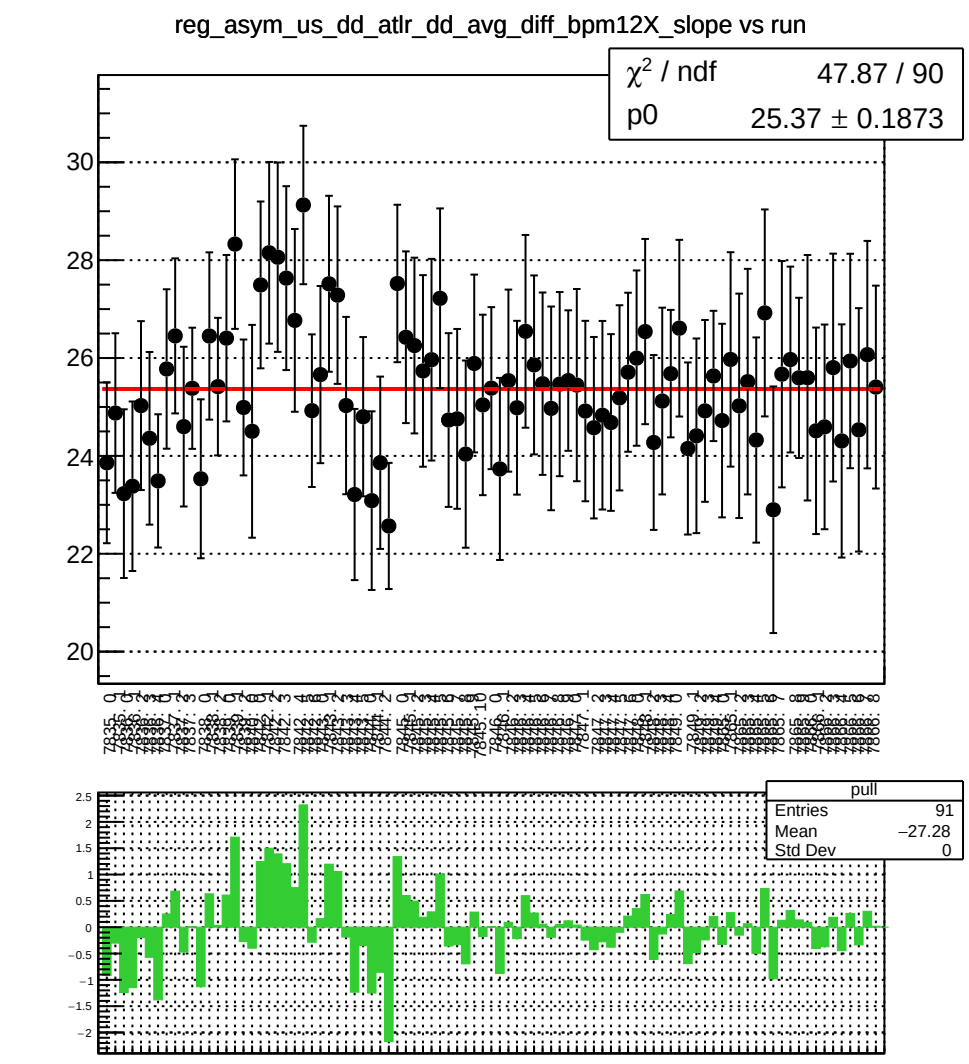

pull1D
Entries 91
Mean −0.4923
Std Dev 1.126

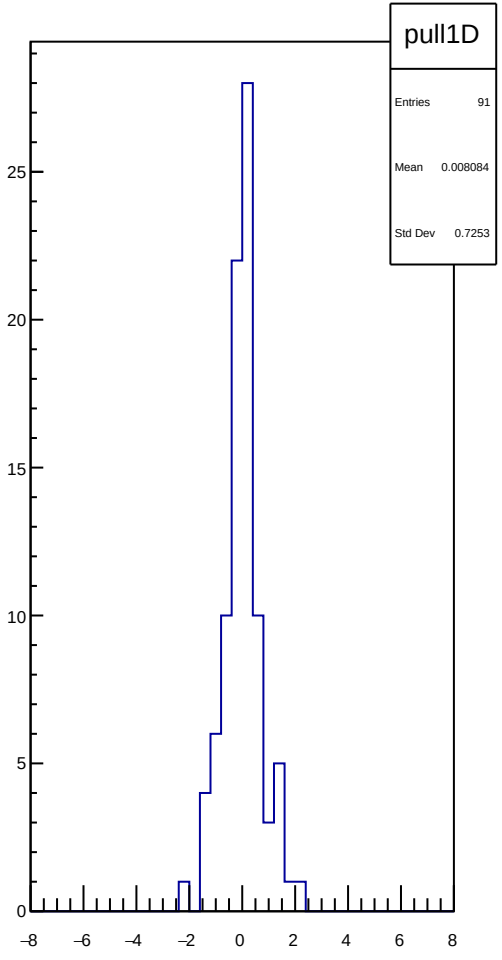

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.72 / 90
p0 −12.76 ± 5.283
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 297.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.0067
Std Dev 0.5316
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

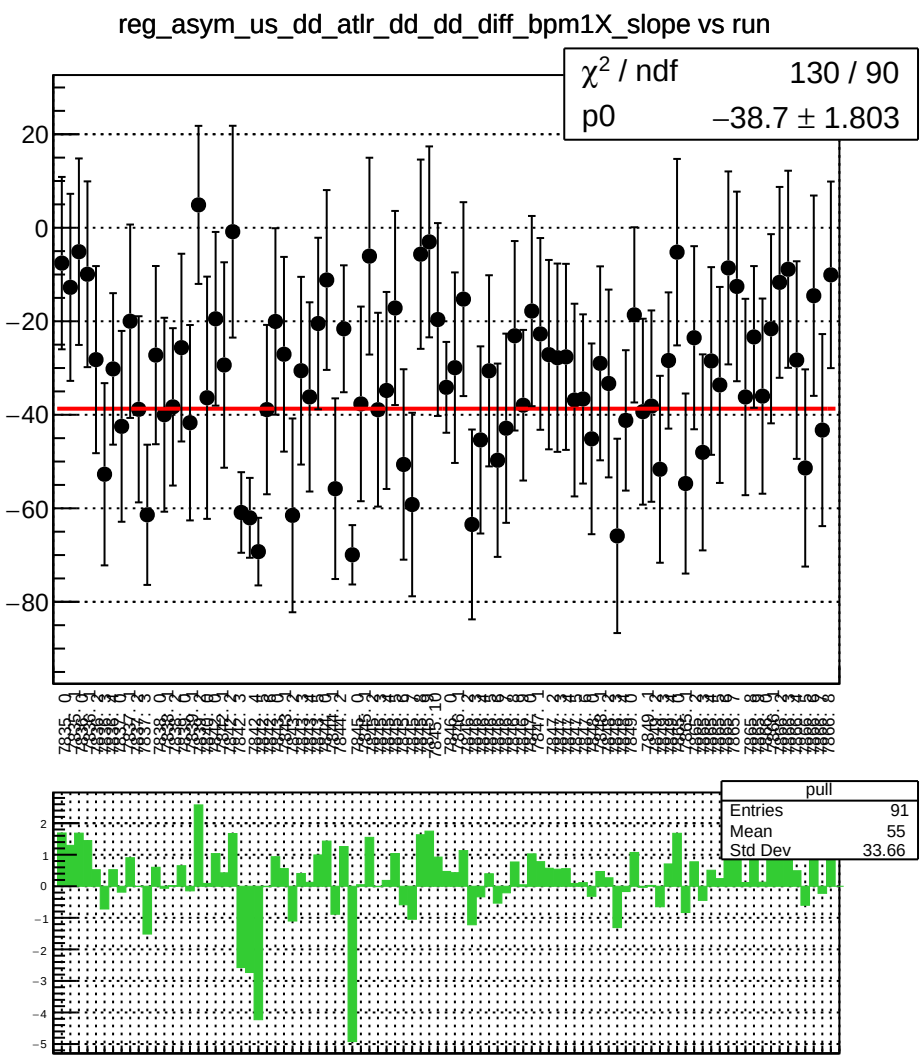

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 164.1 / 90
p0 −126.3 ± 3.801
pull
Entries 91
Mean 51.02
Std Dev 28.45
pull1D
Entries 91
Mean 0.6199
Std Dev 1.191

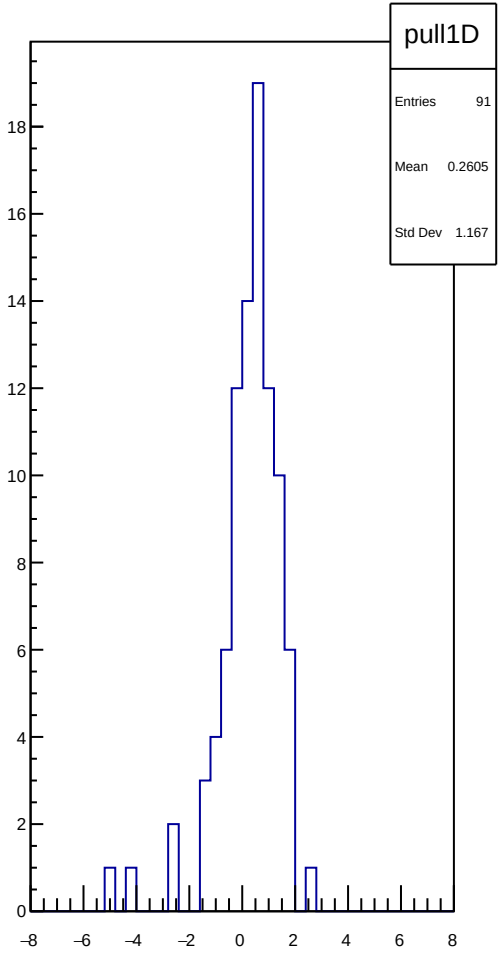

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.07 / 90
p0 11.59 ± 6.165
pull
Entries 91
Mean 291.3
Std Dev 0

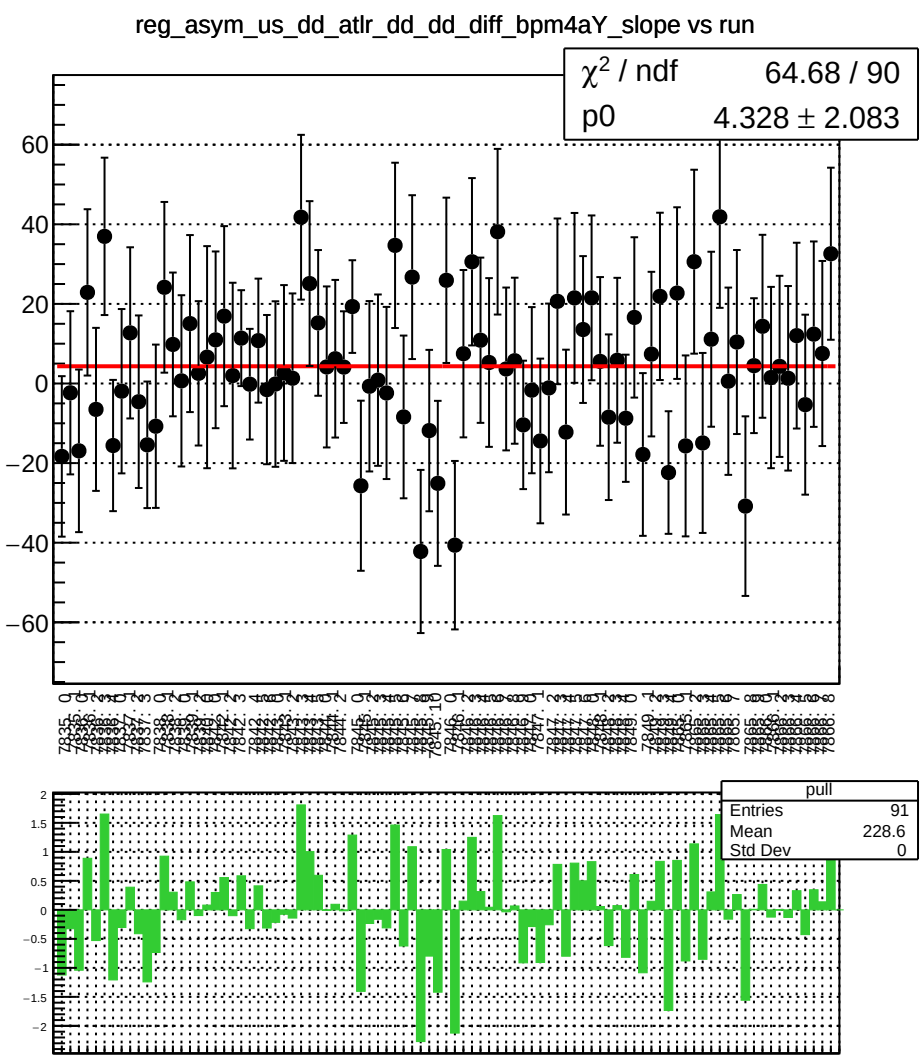

pull1D
Entries 91
Mean −0.005567
Std Dev 0.5352

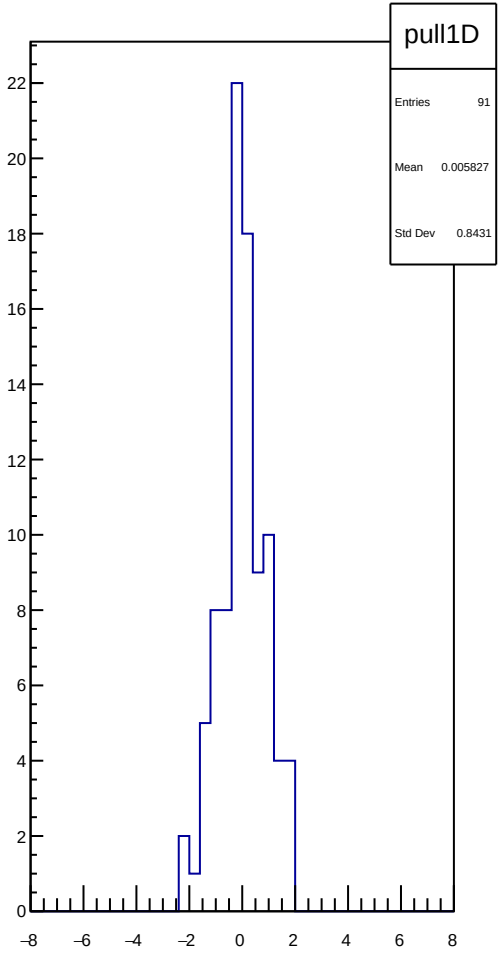

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 47.87 / 90
p0 25.37 ± 0.1873
pull
Entries 91
Mean −27.28
Std Dev 0

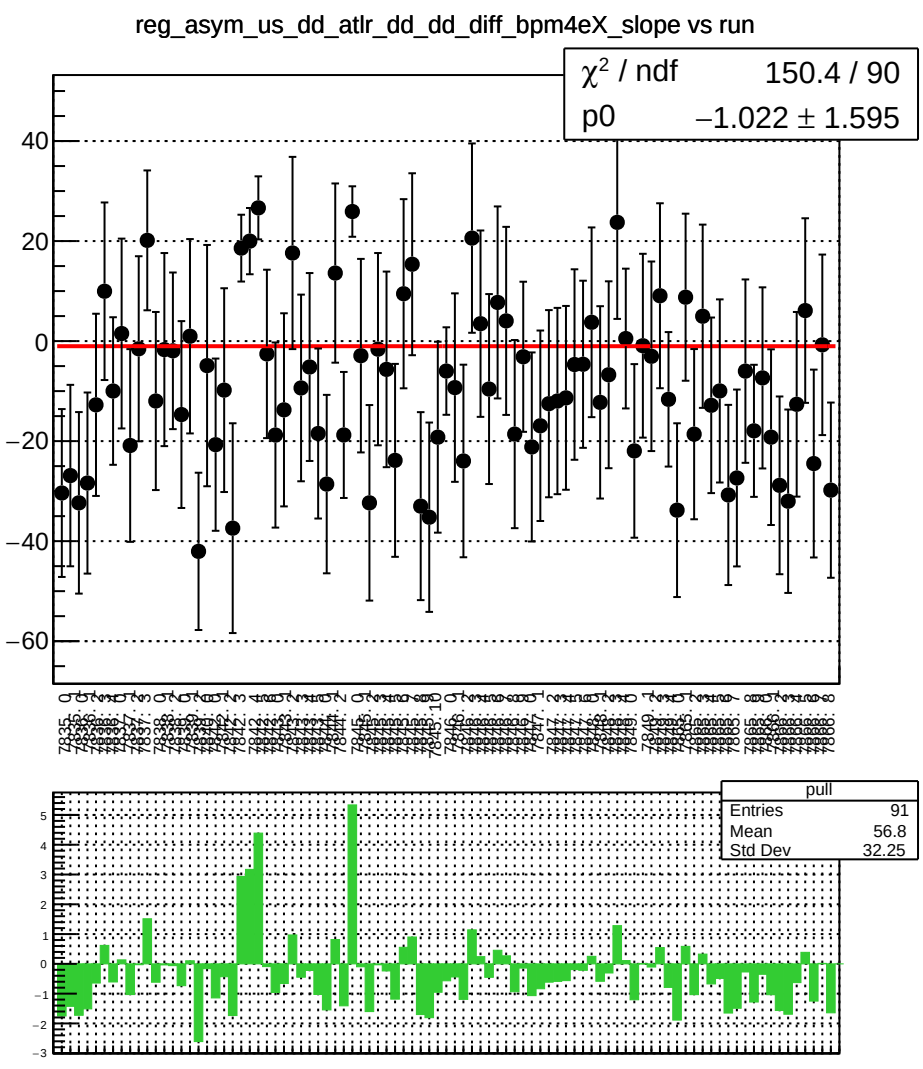

pull1D
Entries 91
Mean 0.008084
Std Dev 0.7253

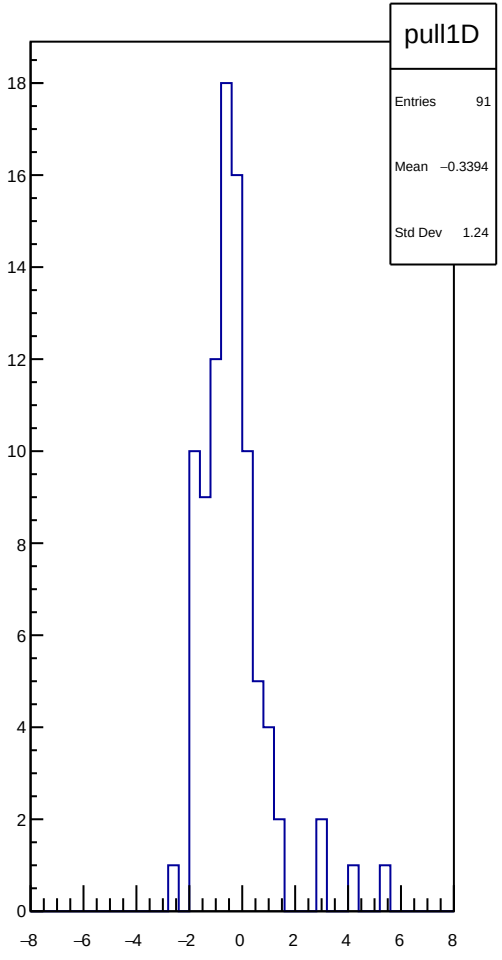

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 130 / 90
p0 −38.7 ± 1.803
pull
Entries 91
Mean 55
Std Dev 33.66

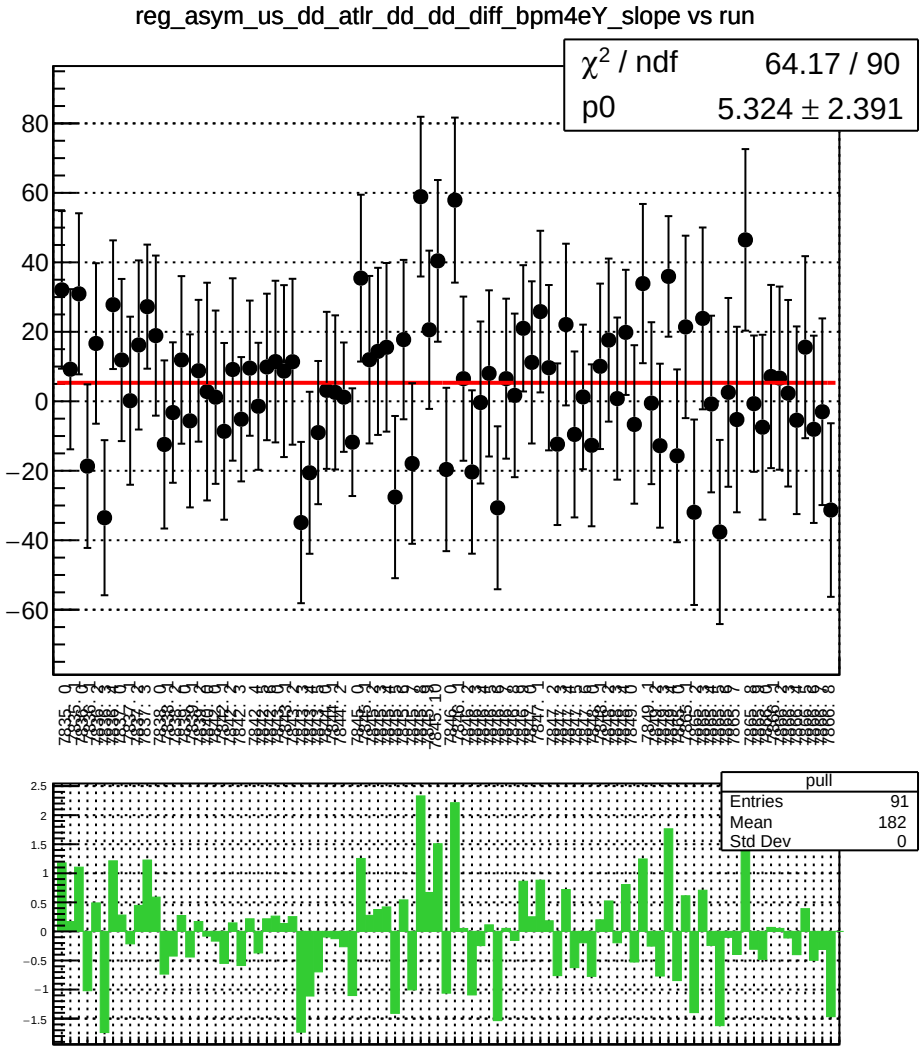

pull1D
Entries 91
Mean 0.2605
Std Dev 1.167

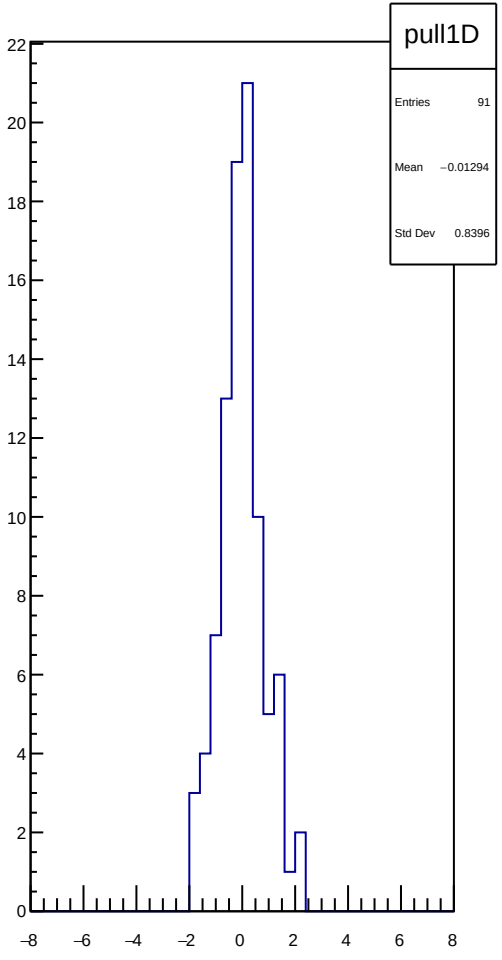

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.68 / 90
p0 4.328 ± 2.083
pull
Entries 91
Mean 228.6
Std Dev 0

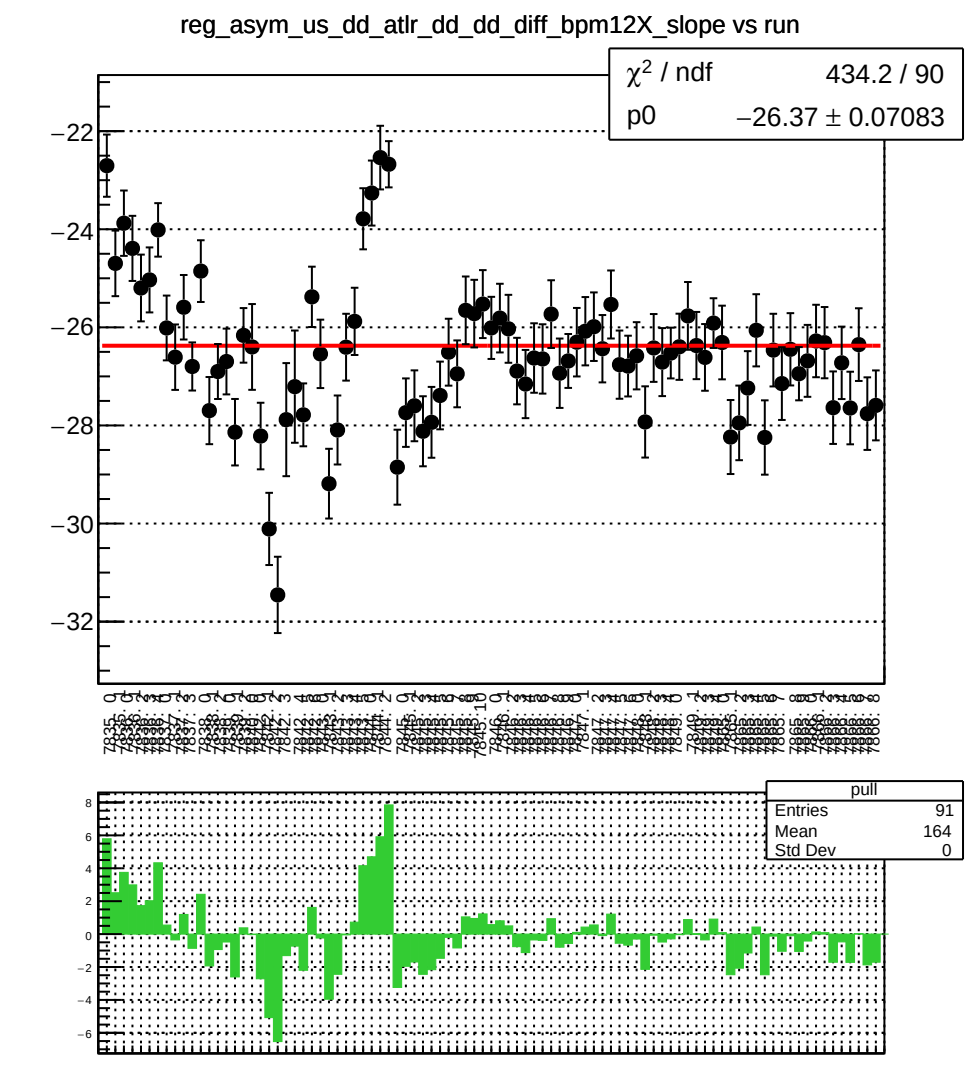

pull1D
Entries 91
Mean 0.005827
Std Dev 0.8431

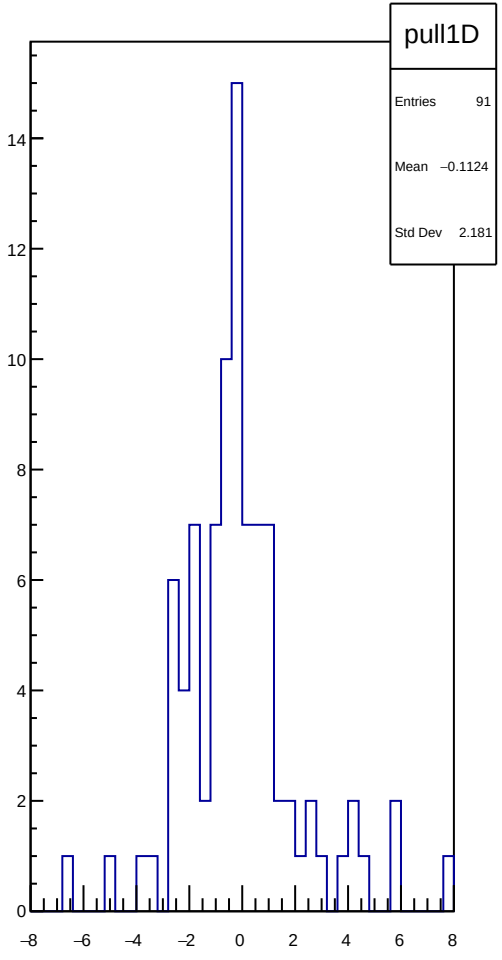

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 150.4 / 90
p0 −1.022 ± 1.595
pull
Entries 91
Mean 56.8
Std Dev 32.25

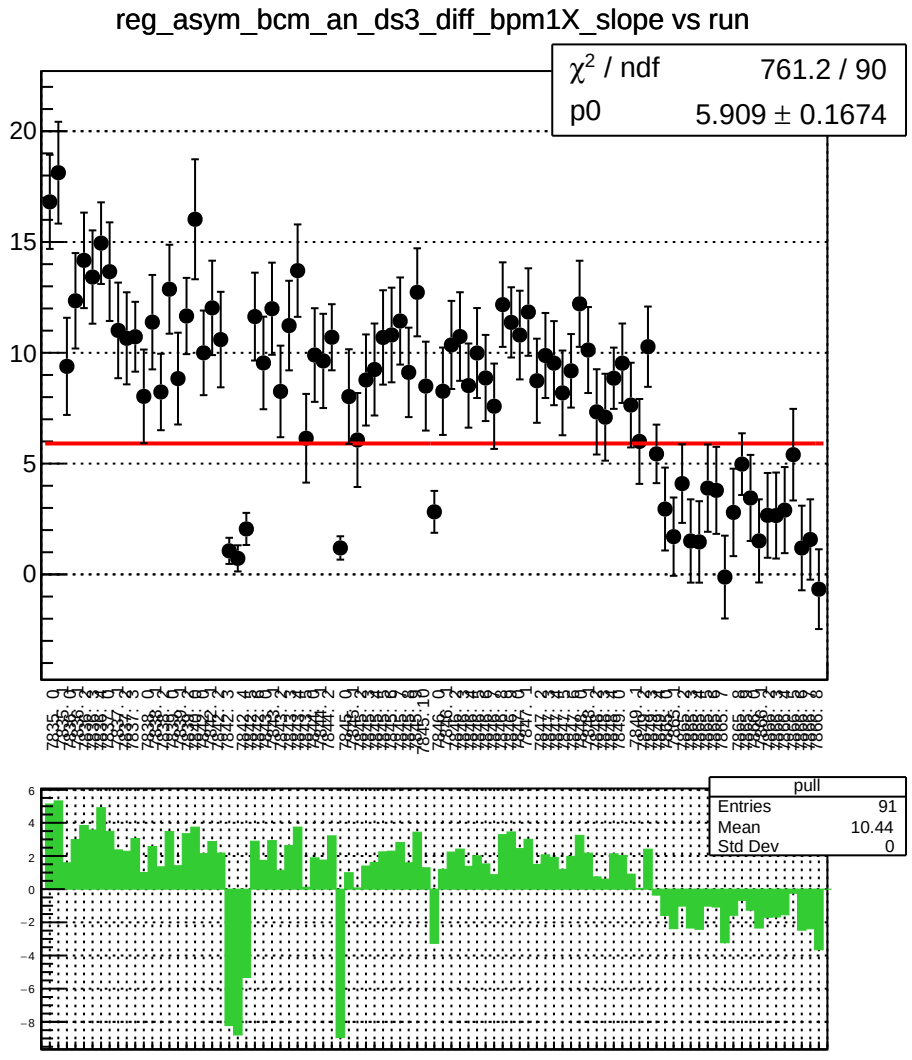

pull1D
Entries 91
Mean −0.3394
Std Dev 1.24

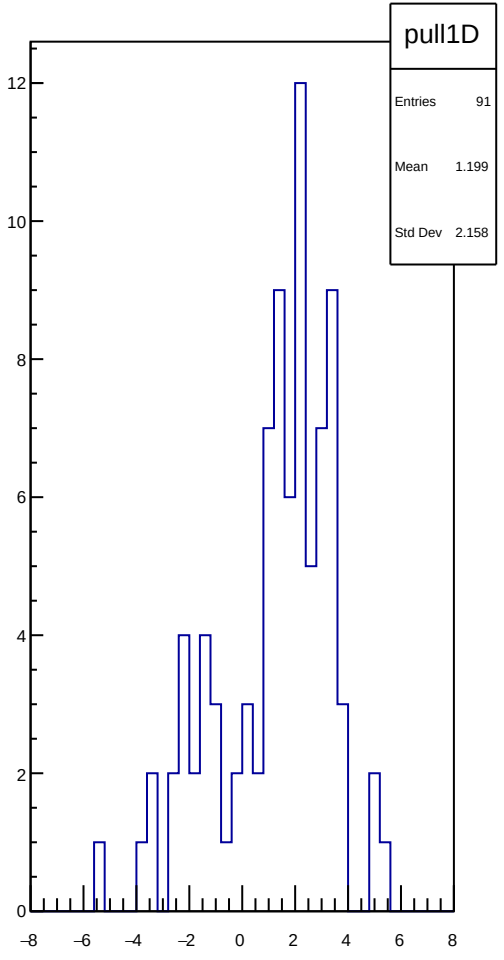

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.17 / 90
p0 5.324 ± 2.391
pull
Entries 91
Mean 182
Std Dev 0

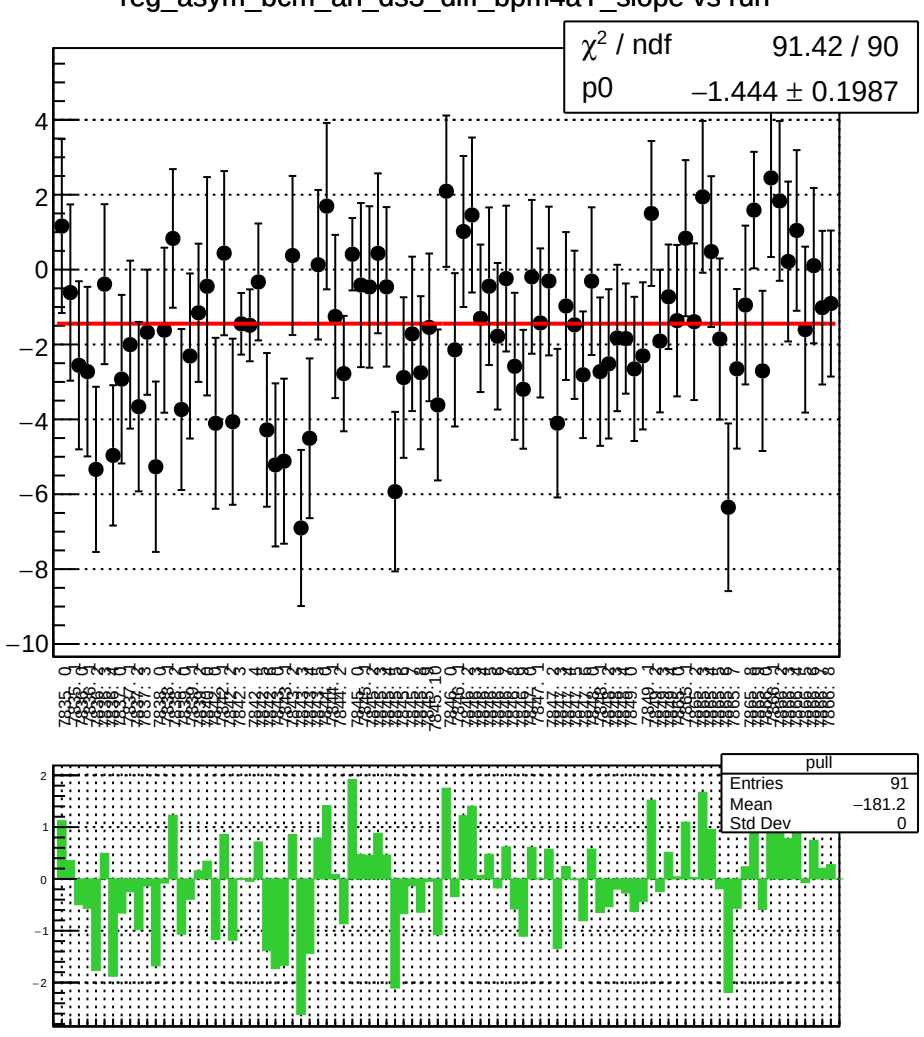

pull1D
Entries 91
Mean −0.01294
Std Dev 0.8396

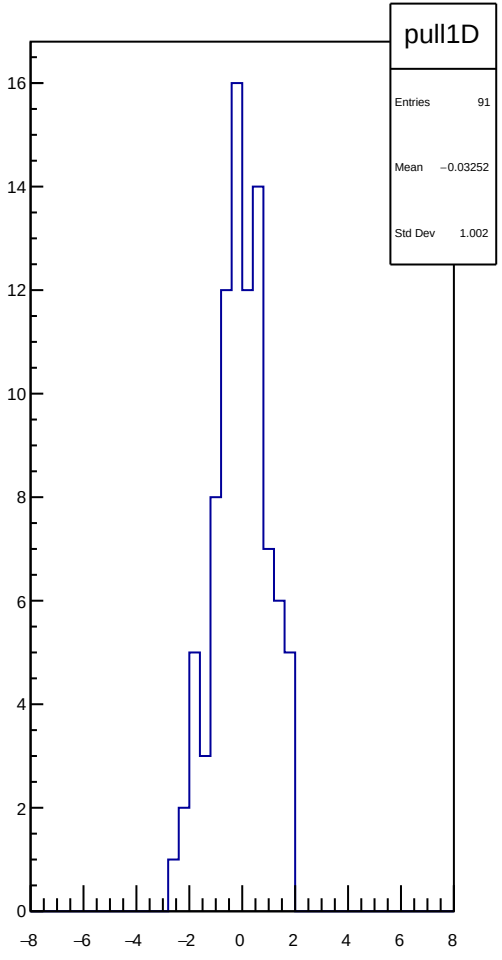

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 434.2 / 90
p0 −26.37 ± 0.07083
pull
Entries 91
Mean 164
Std Dev 0

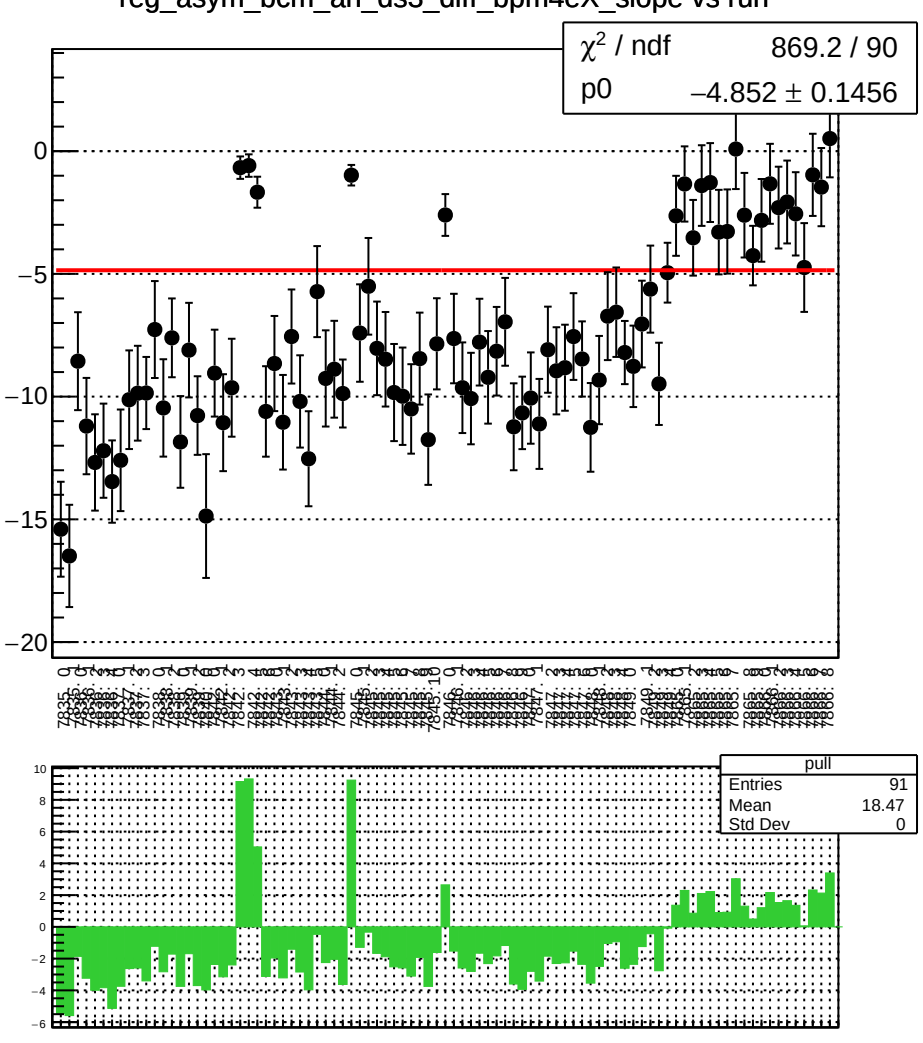

pull1D
Entries 91
Mean −0.1124
Std Dev 2.181

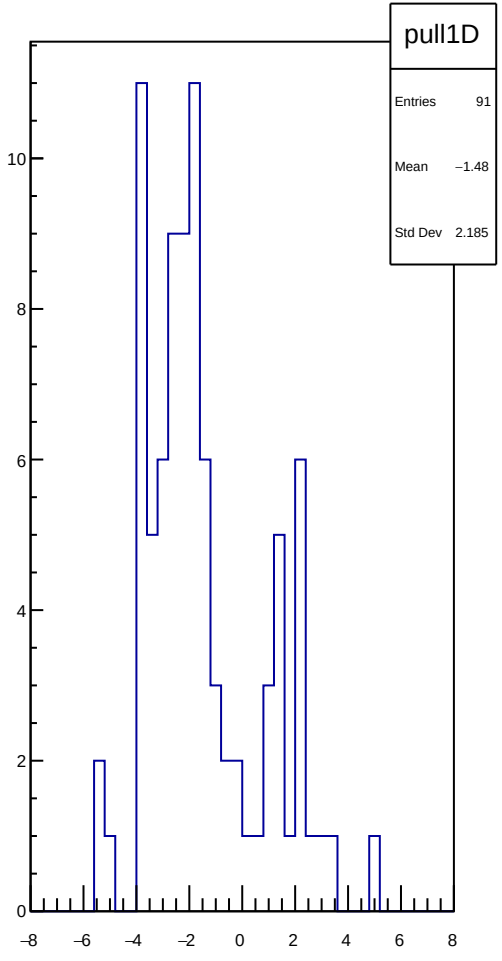

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 761.2 / 90
p0 5.909 ± 0.1674
pull
Entries 91
Mean 10.44
Std Dev 0

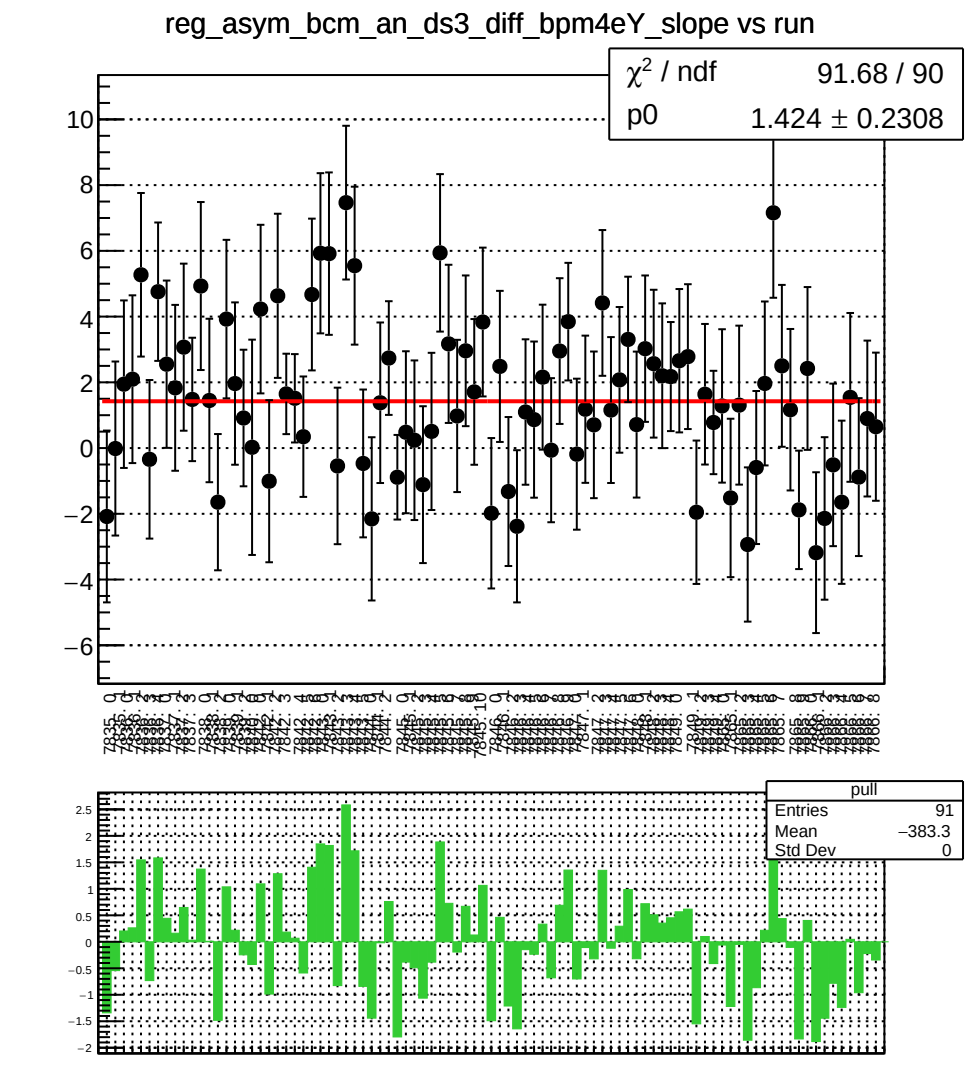

pull1D
Entries 91
Mean 1.199
Std Dev 2.158

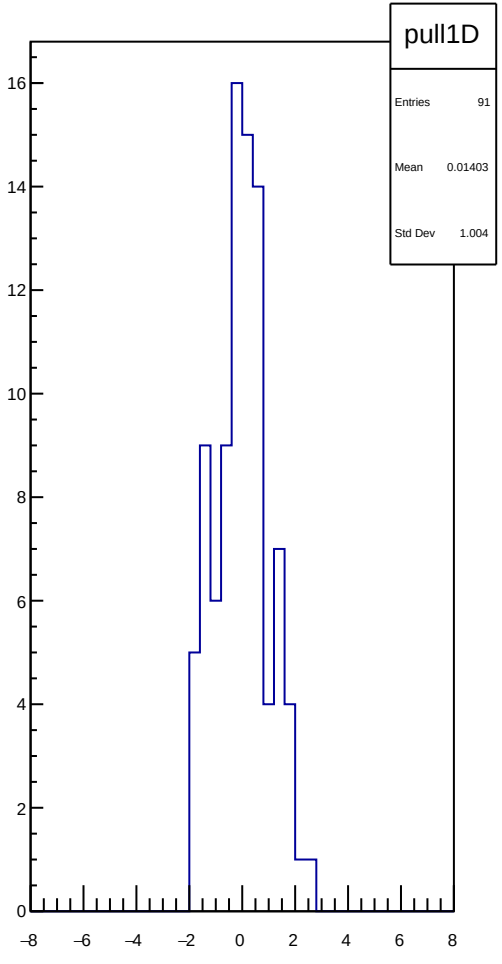

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 91.42 / 90
p0 −1.444 ± 0.1987
pull
Entries 91
Mean −181.2
Std Dev 0

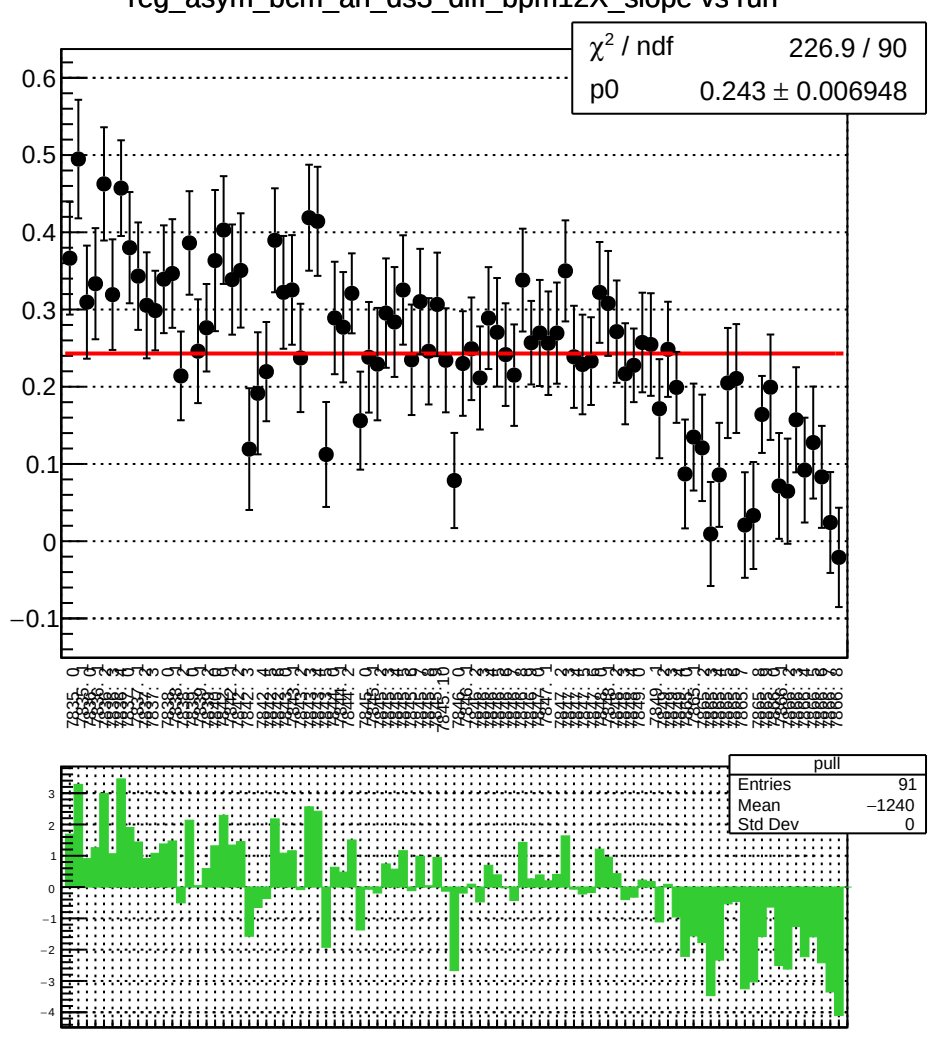

pull1D
Entries 91
Mean −0.03252
Std Dev 1.002

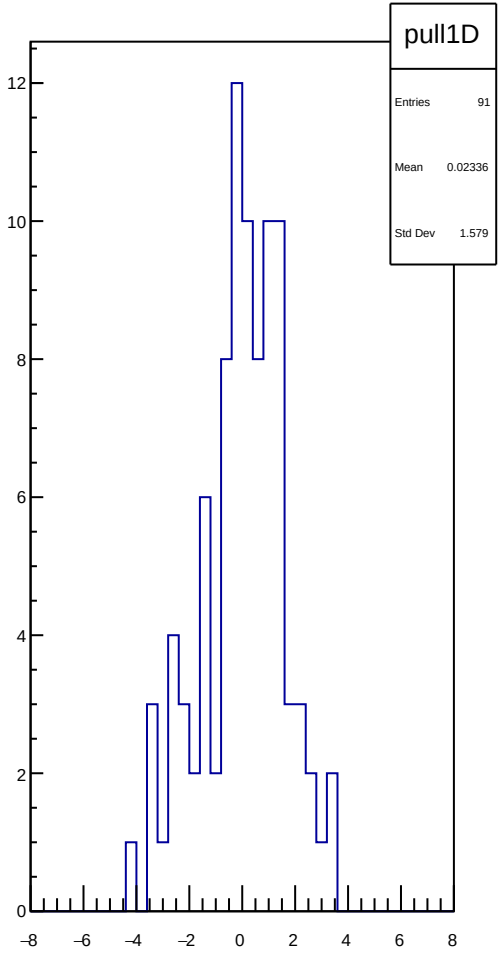

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 869.2 / 90
p0 −4.852 ± 0.1456
pull
Entries 91
Mean 18.47
Std Dev 0

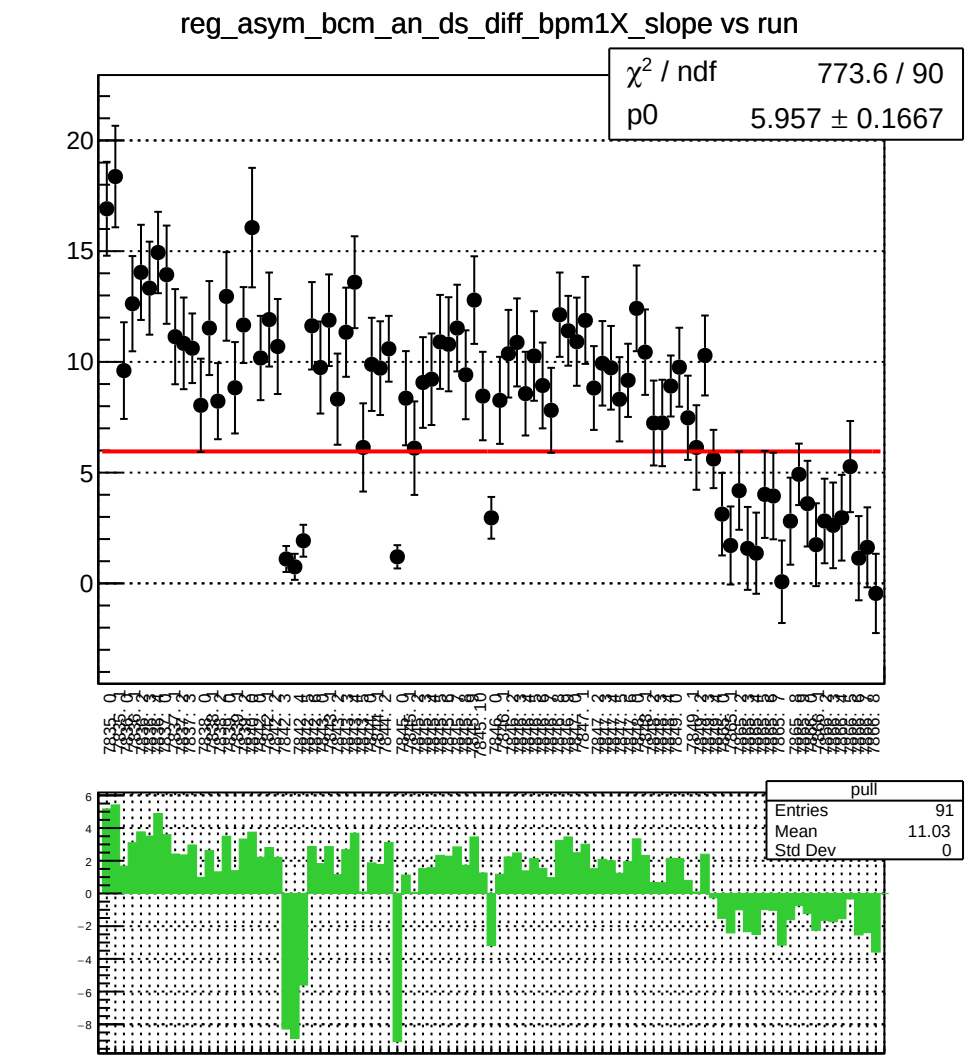

pull1D
Entries 91
Mean −1.48
Std Dev 2.185

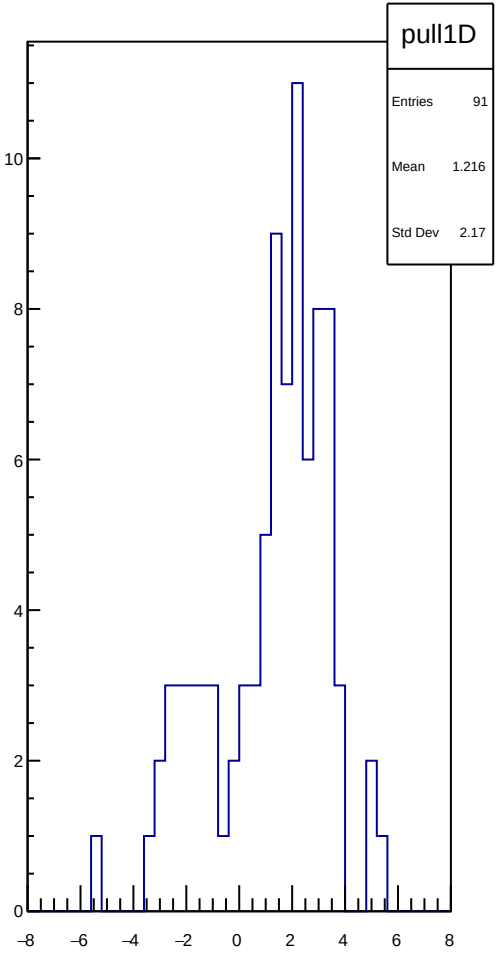

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 91.68 / 90
p0 1.424 ± 0.2308
pull
Entries 91
Mean −383.3
Std Dev 0

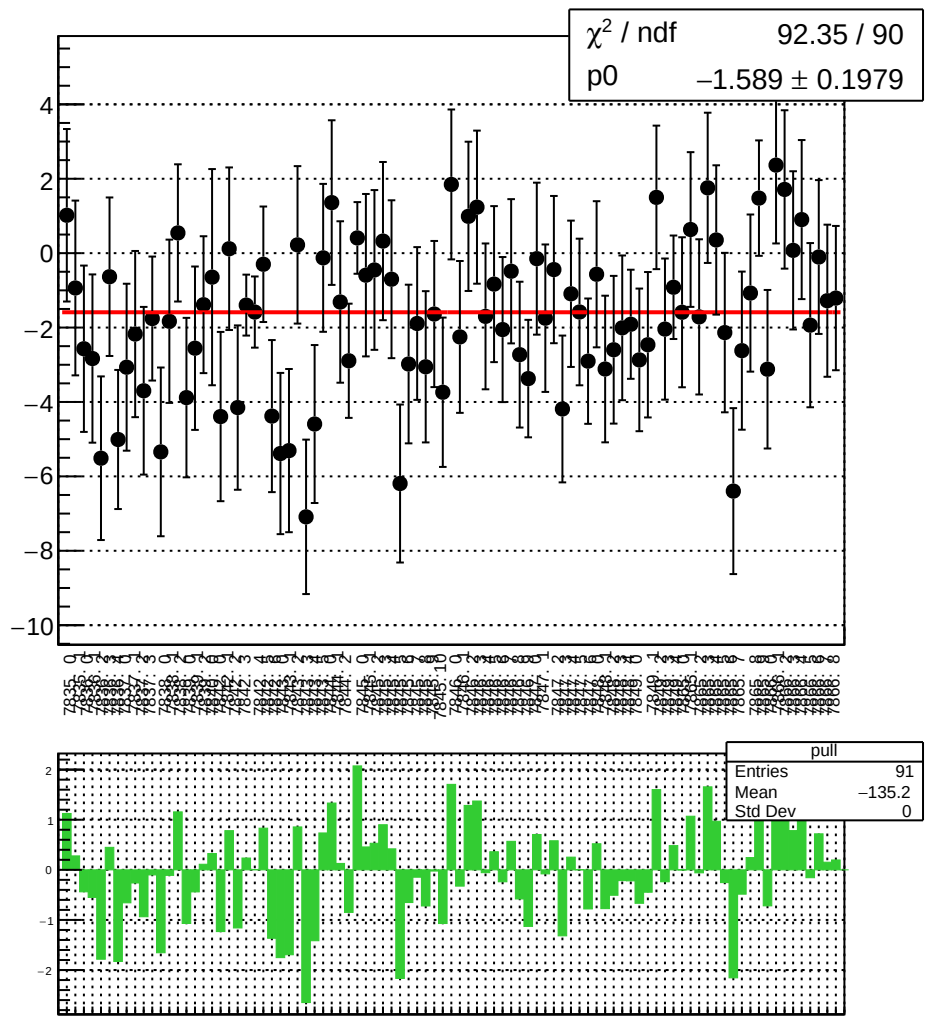

pull1D
Entries 91
Mean 0.01403
Std Dev 1.004

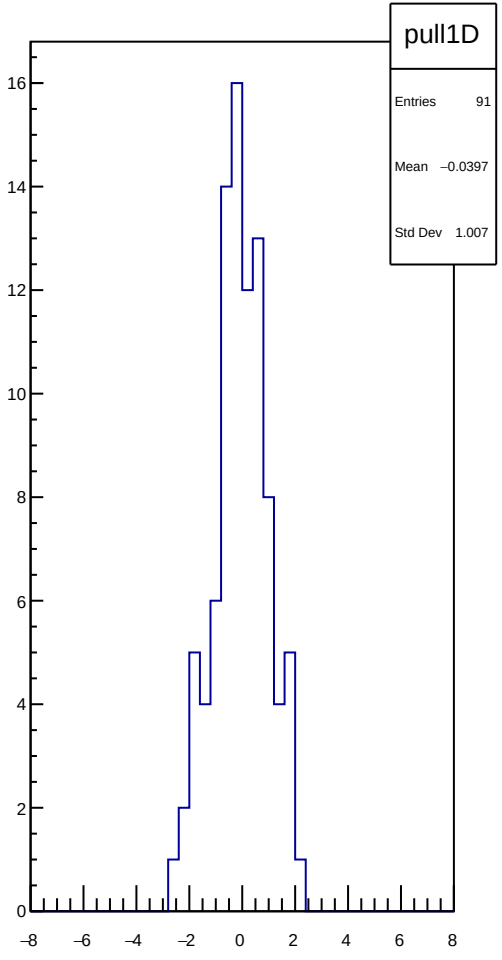

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 226.9 / 90
p0 0.243 ± 0.006948
pull
Entries 91
Mean −1240
Std Dev 0

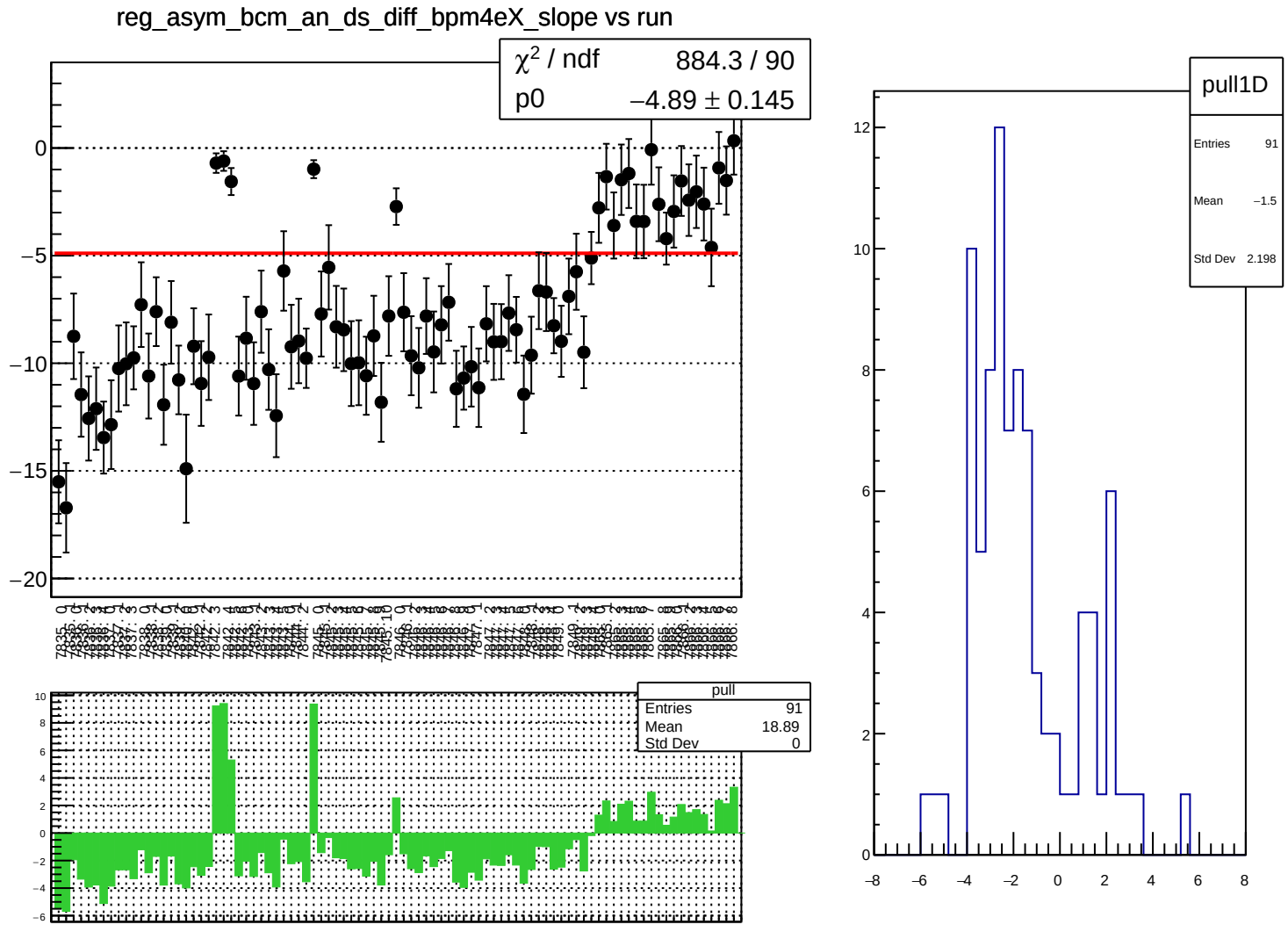

pull1D
Entries 91
Mean 0.02336
Std Dev 1.579

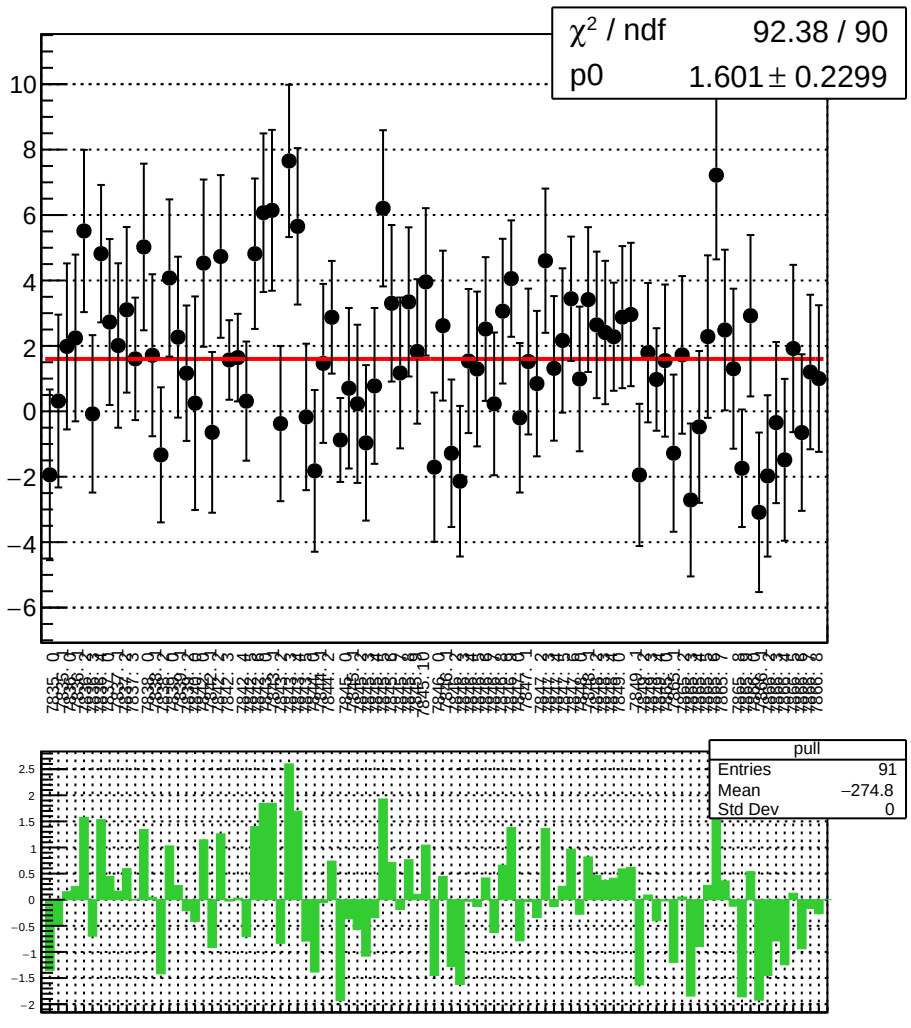

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 773.6 / 90
p0 5.957 ± 0.1667
pull
Entries 91
Mean 11.03
Std Dev 0

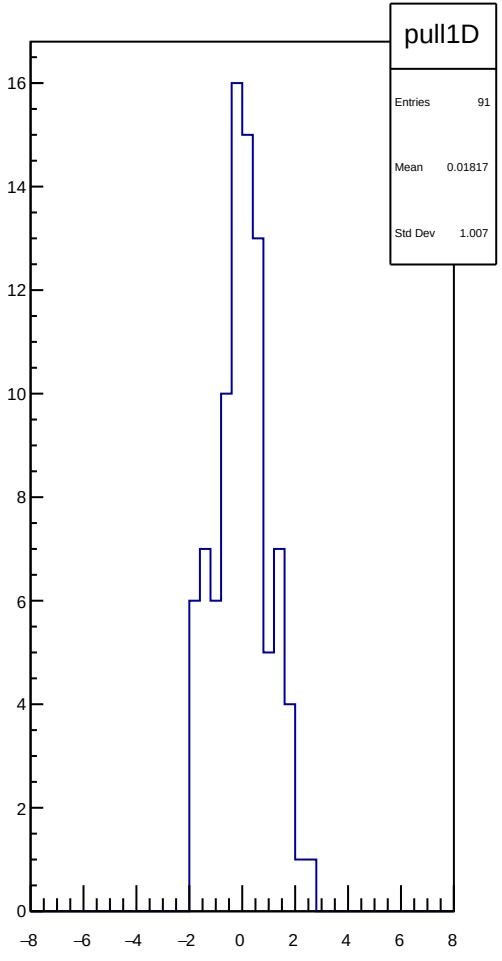

pull1D
Entries 91
Mean 1.216
Std Dev 2.17

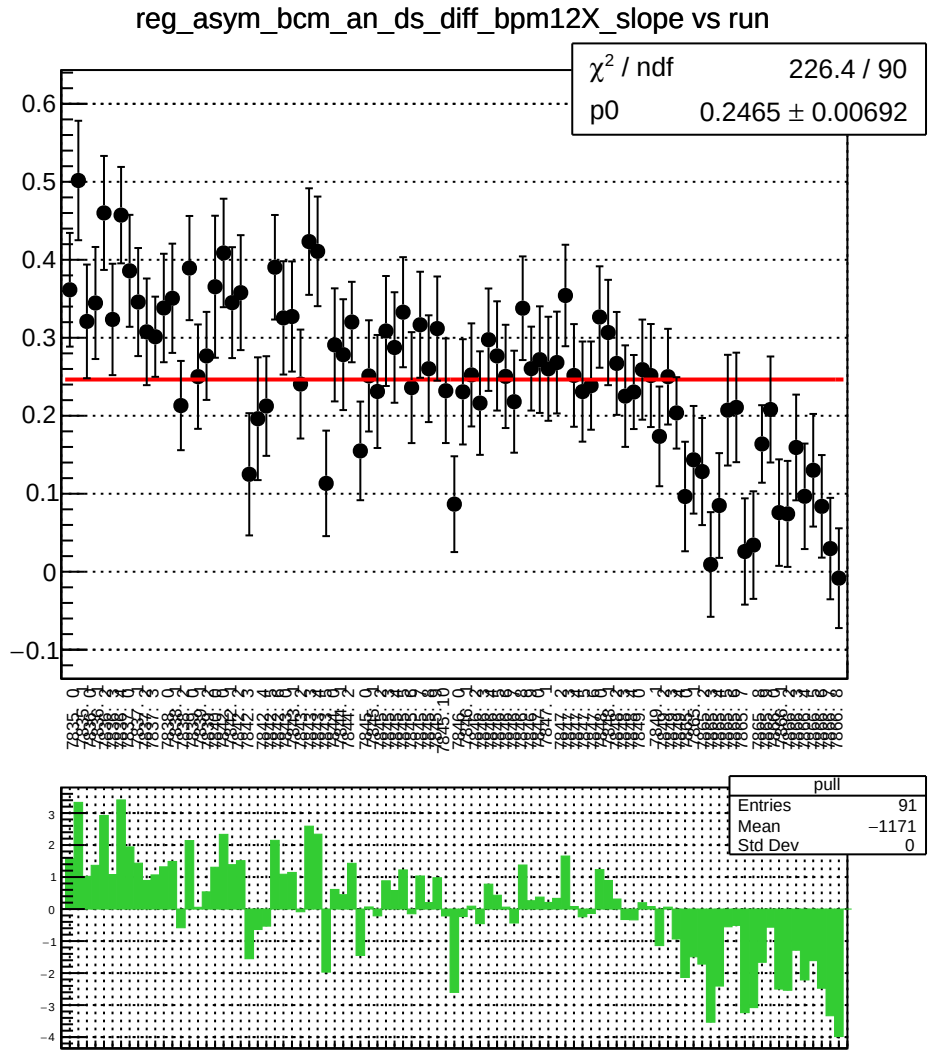

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 92.35 / 90
p0 −1.589 ± 0.1979
pull
Entries 91
Mean −135.2
Std Dev 0

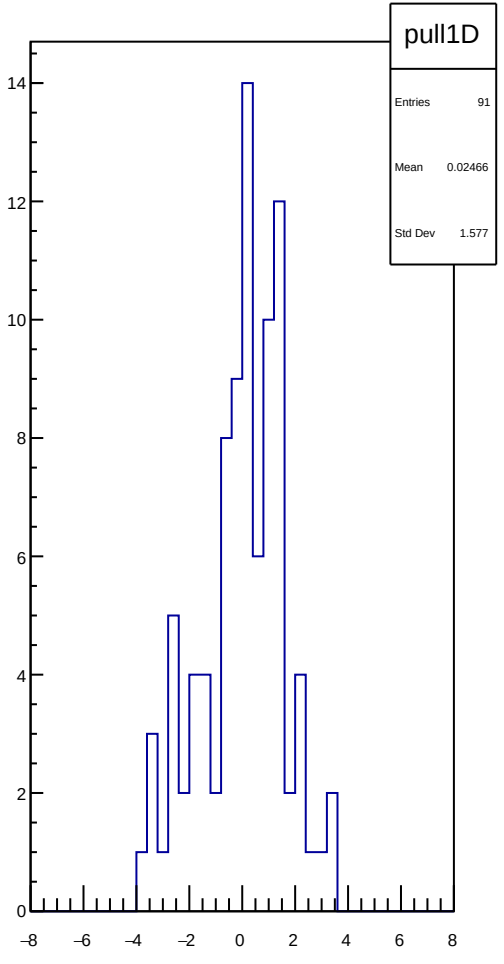

pull1D
Entries 91
Mean −0.0397
Std Dev 1.007

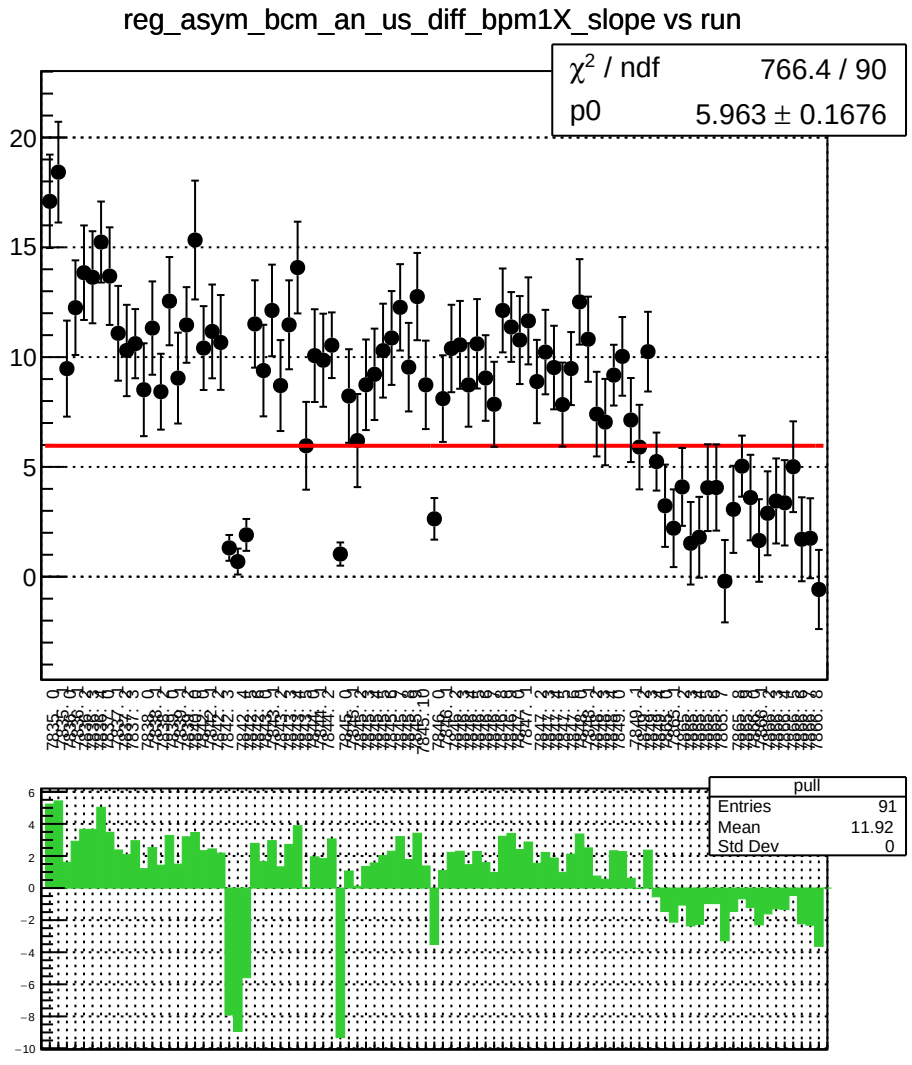

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 884.3 / 90
p0 −4.89 ± 0.145
pull
Entries 91
Mean 18.89
Std Dev 0
pull1D
Entries 91
Mean −1.5
Std Dev 2.198

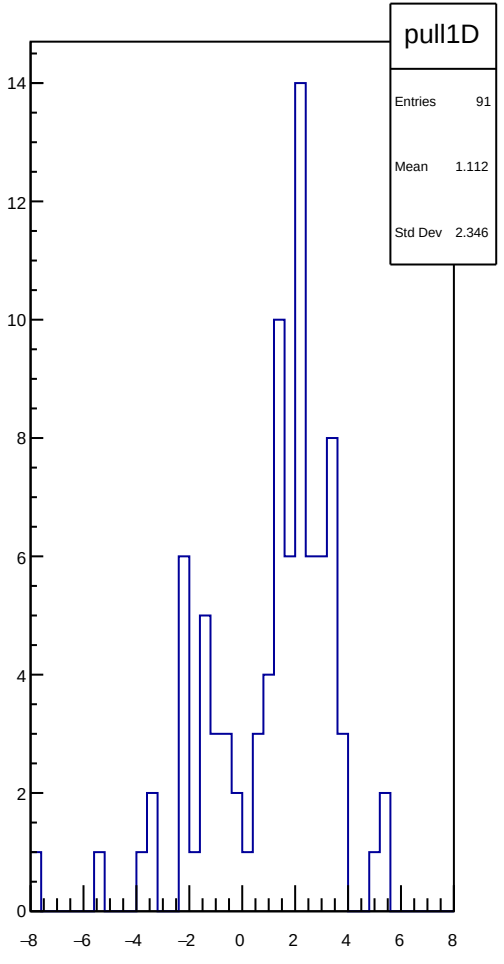

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 92.38 / 90
p0 1.601 ± 0.2299
pull
Entries 91
Mean −274.8
Std Dev 0

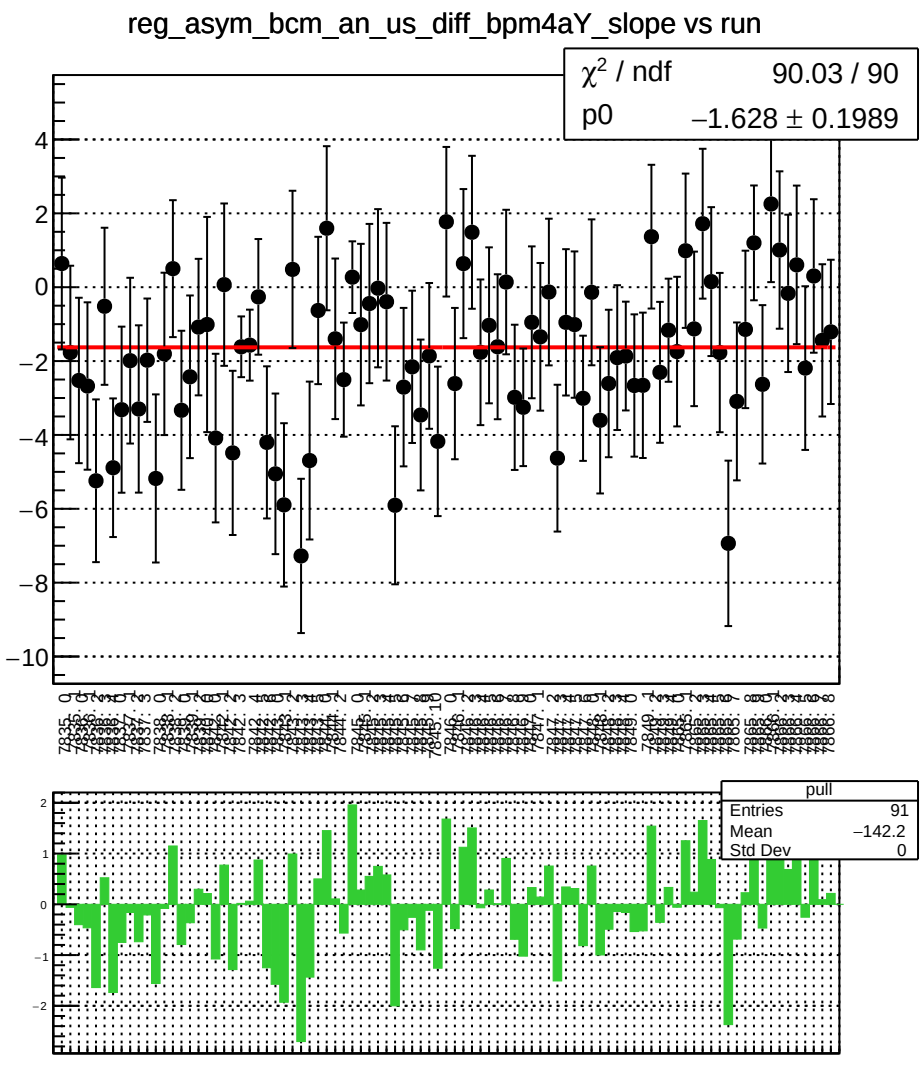

pull1D
Entries 91
Mean 0.01817
Std Dev 1.007

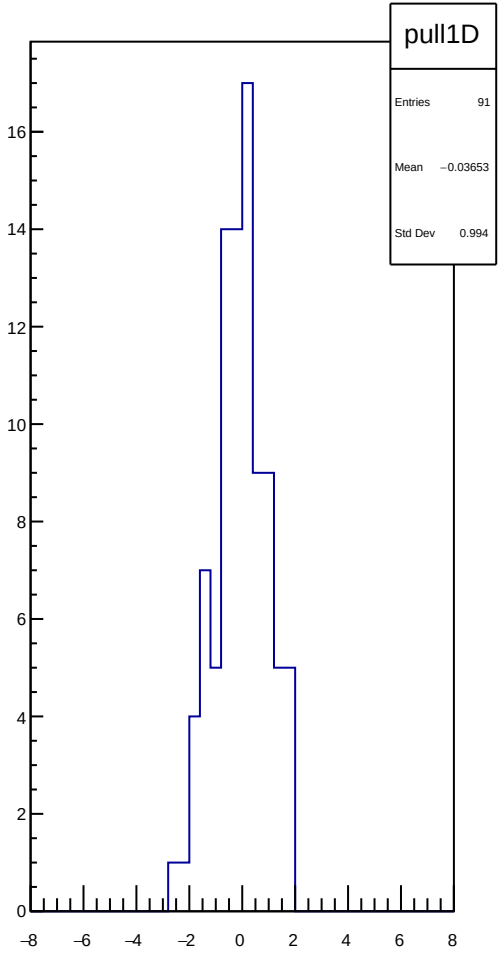

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 226.4 / 90
p0 0.2465 ± 0.00692
pull
Entries 91
Mean −1171
Std Dev 0

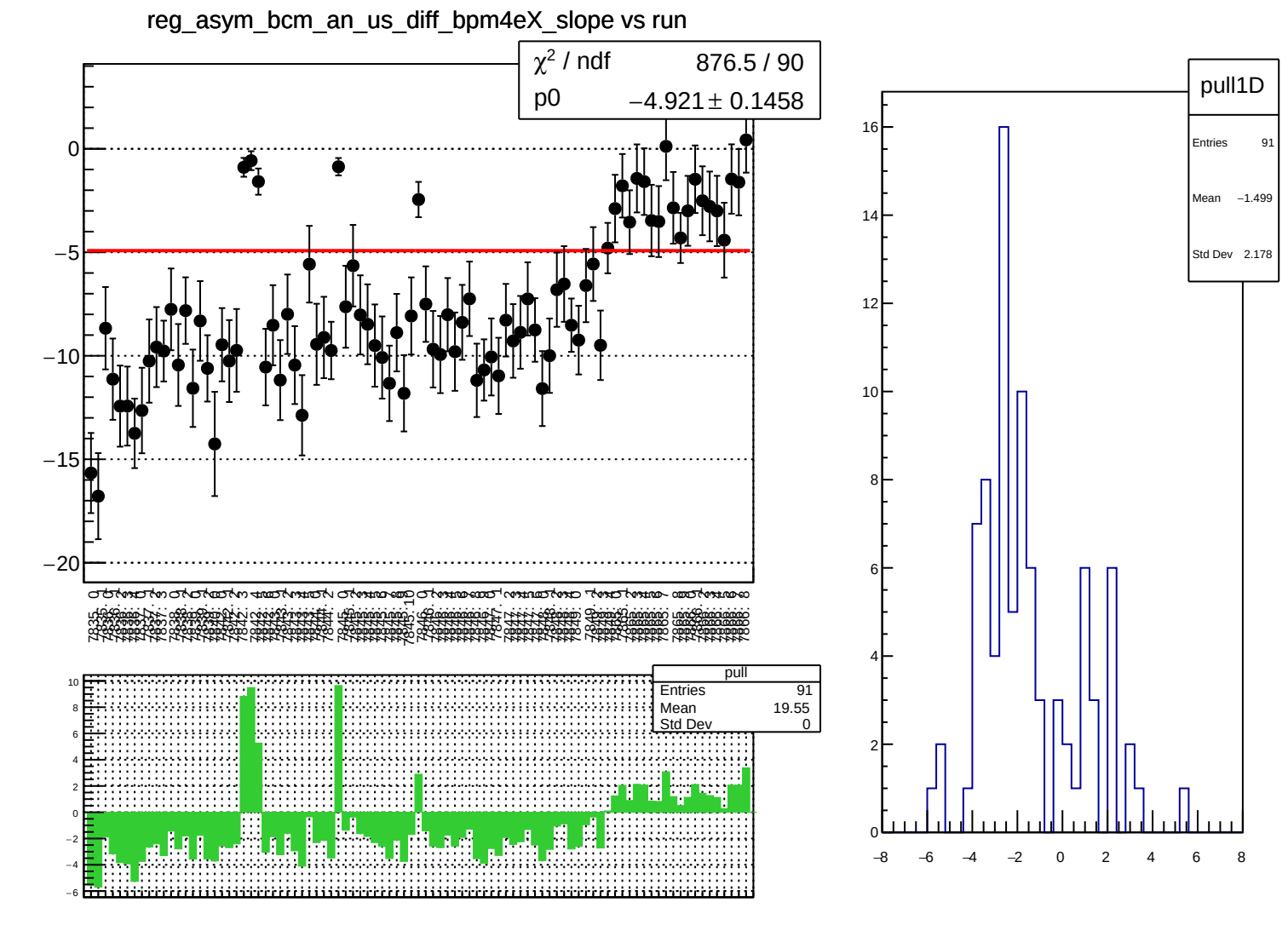

pull1D
Entries 91
Mean 0.02466
Std Dev 1.577

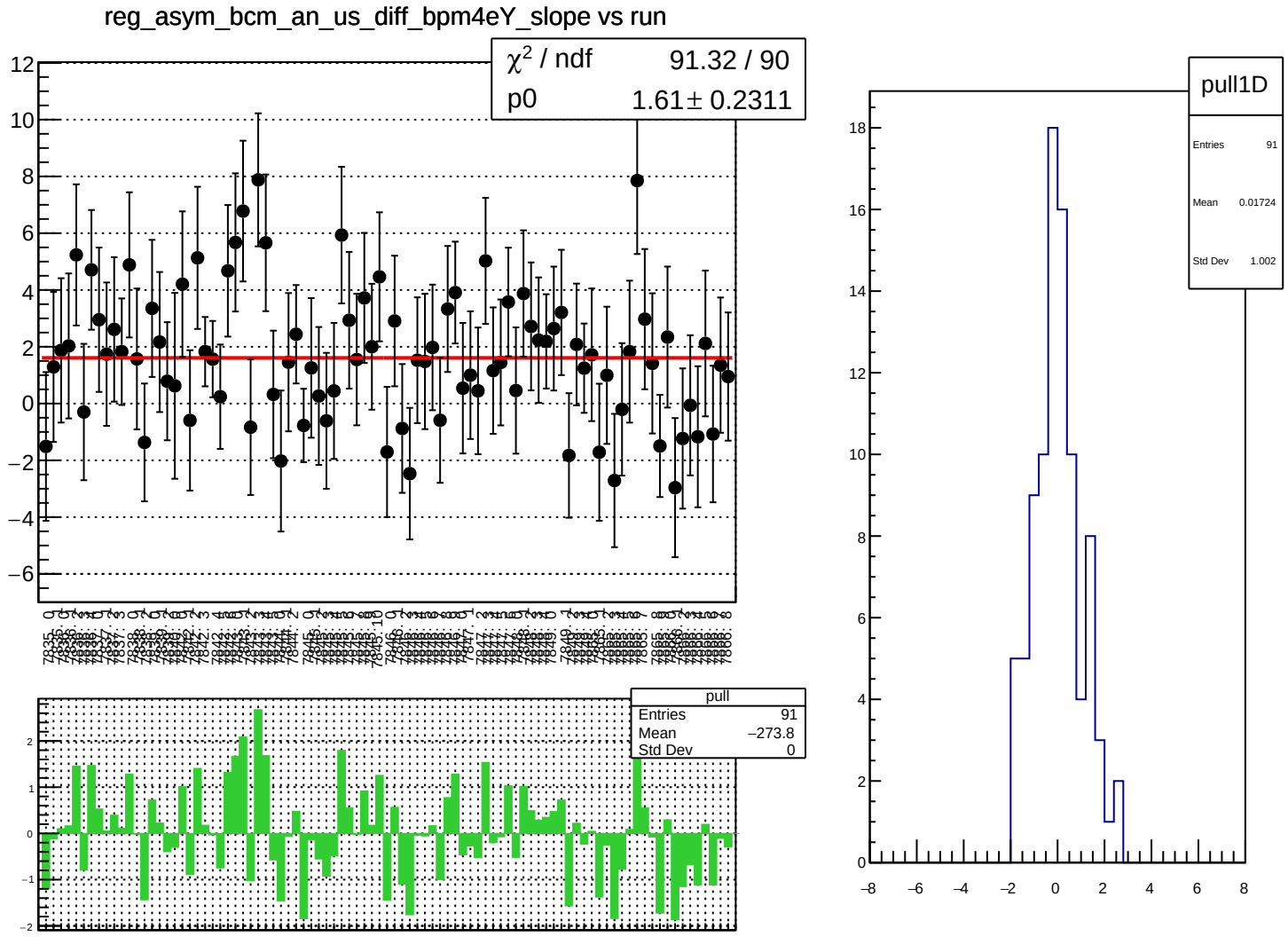

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 766.4 / 90
p0 5.963 ± 0.1676
pull
Entries 91
Mean 11.92
Std Dev 0

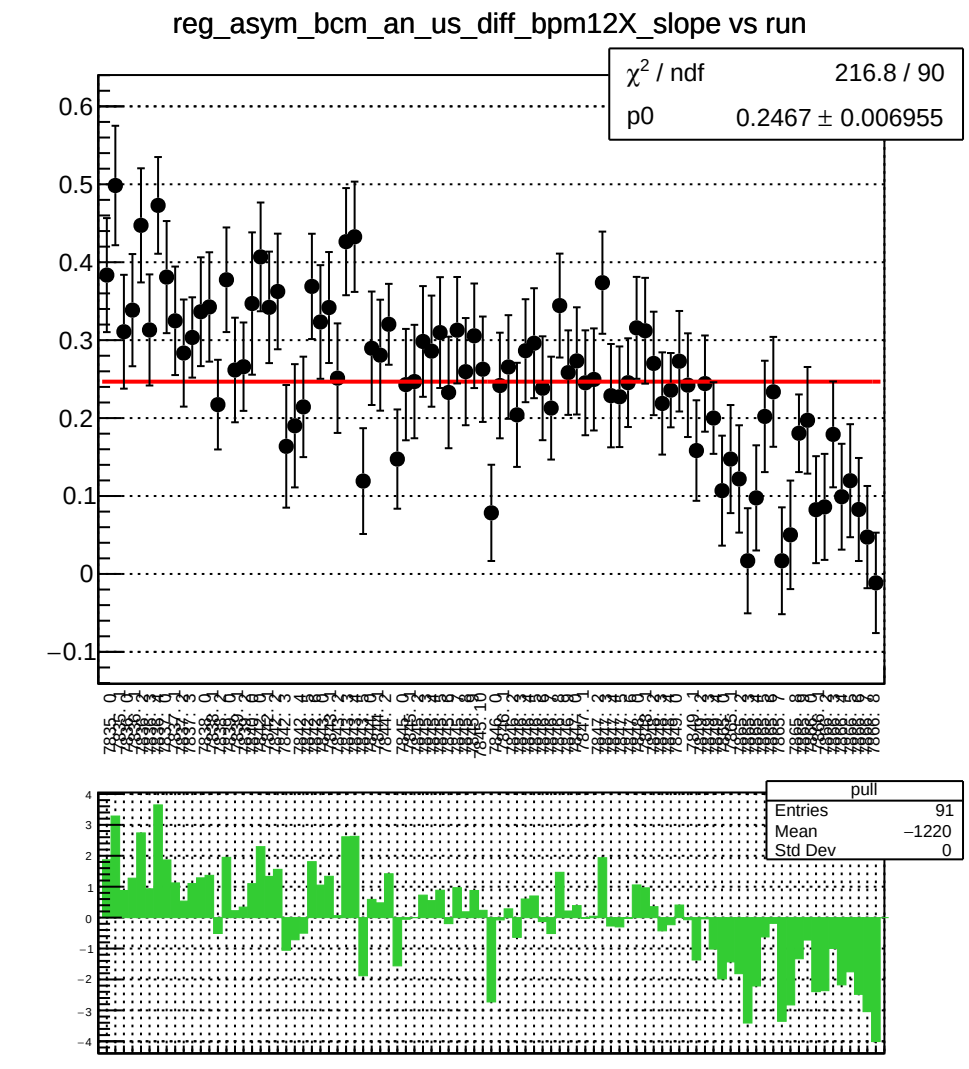

pull1D
Entries 91
Mean 1.112
Std Dev 2.346

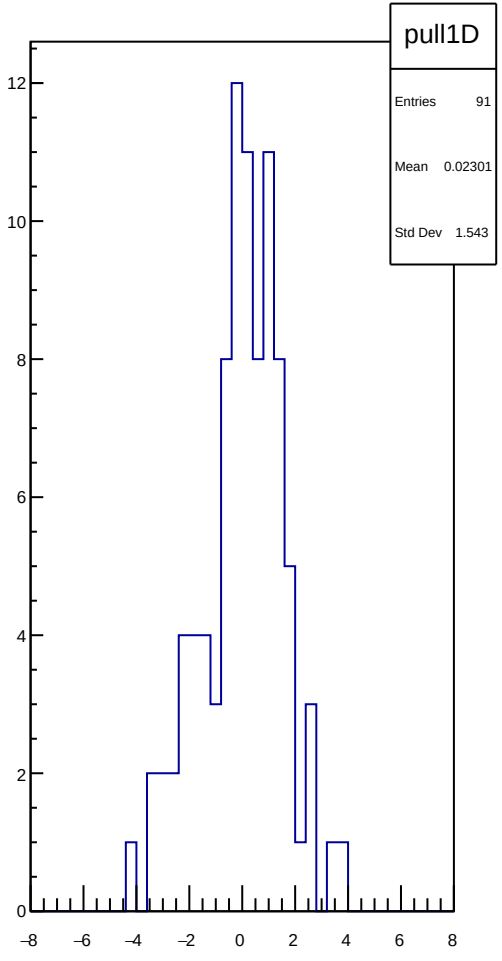

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 90.03 / 90
p0 −1.628 ± 0.1989
pull
Entries 91
Mean −142.2
Std Dev 0

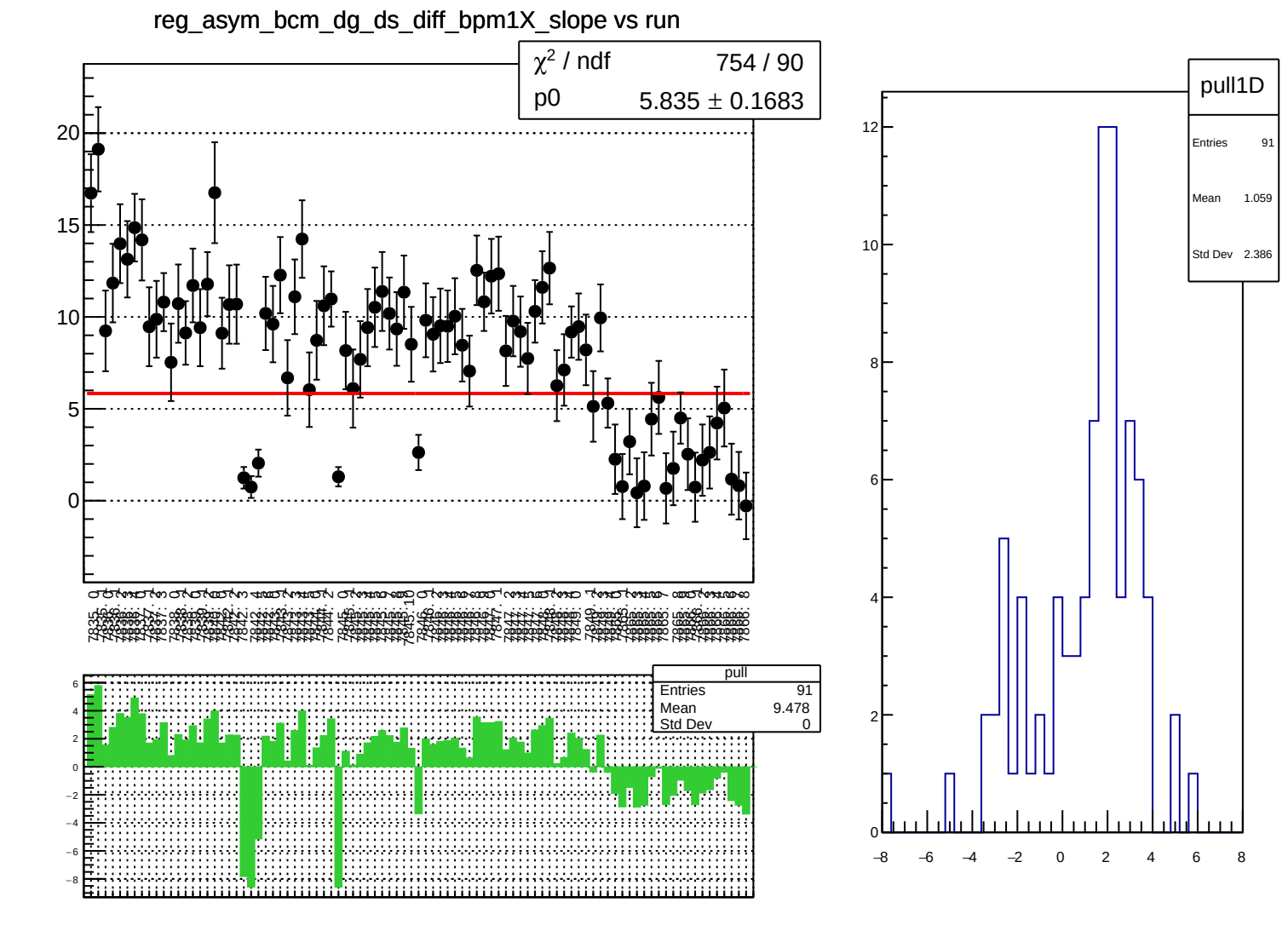

pull1D
Entries 91
Mean −0.03653
Std Dev 0.994

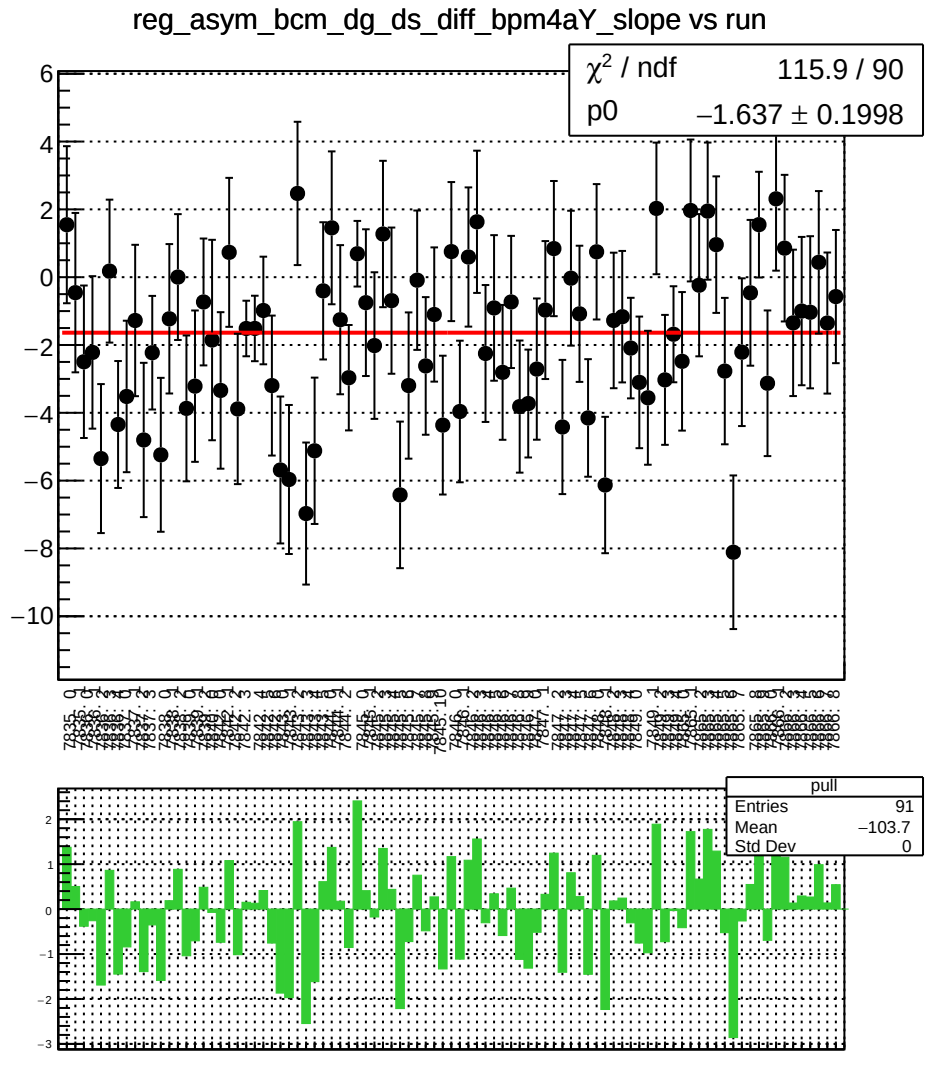

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 876.5 / 90
p0 −4.921 ± 0.1458
pull
Entries 91
Mean 19.55
Std Dev 0
pull1D
Entries 91
Mean −1.499
Std Dev 2.178

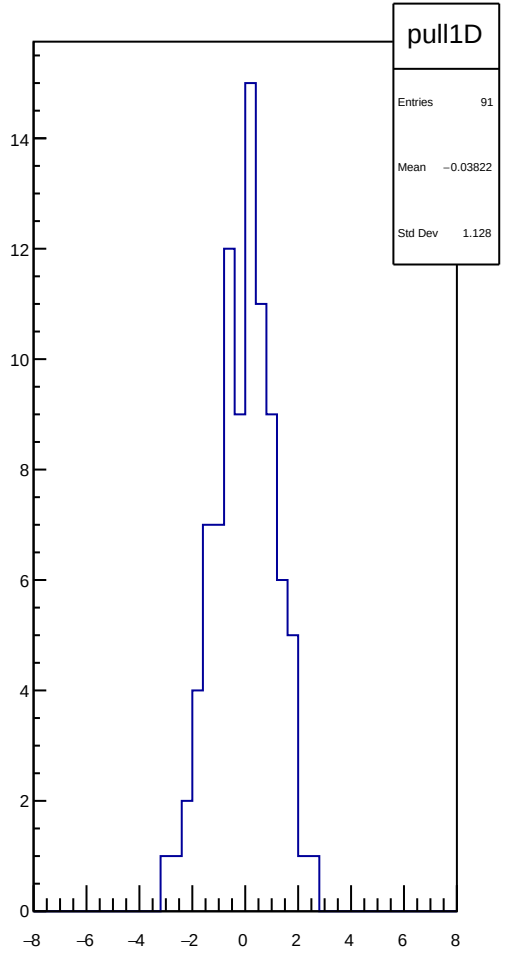

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 91.32 / 90
p0 1.61± 0.2311
pull
Entries 91
Mean −273.8
Std Dev 0
pull1D
Entries 91
Mean 0.01724
Std Dev 1.002

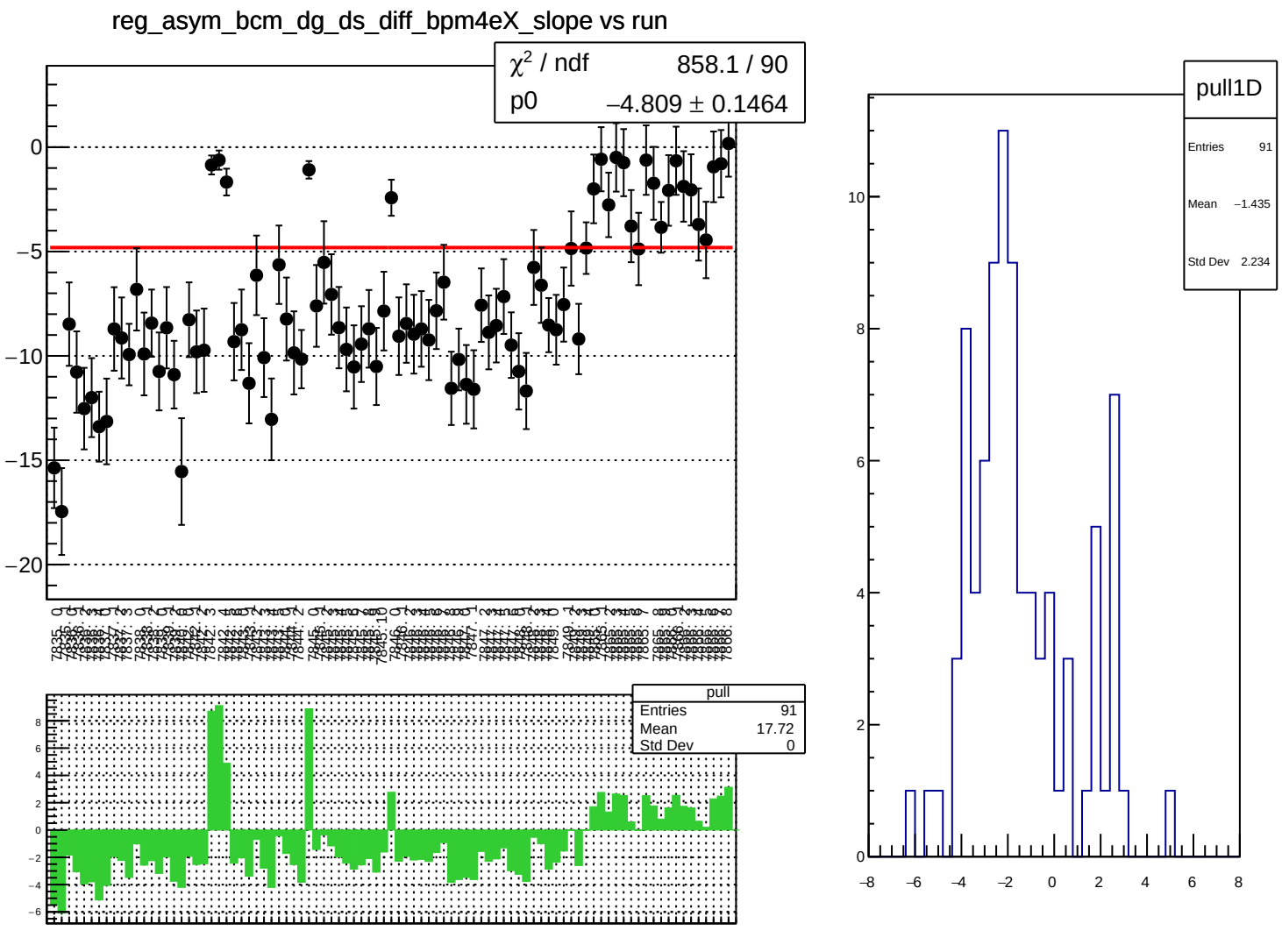

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 216.8 / 90
p0 0.2467 ± 0.006955
pull
Entries 91
Mean −1220
Std Dev 0

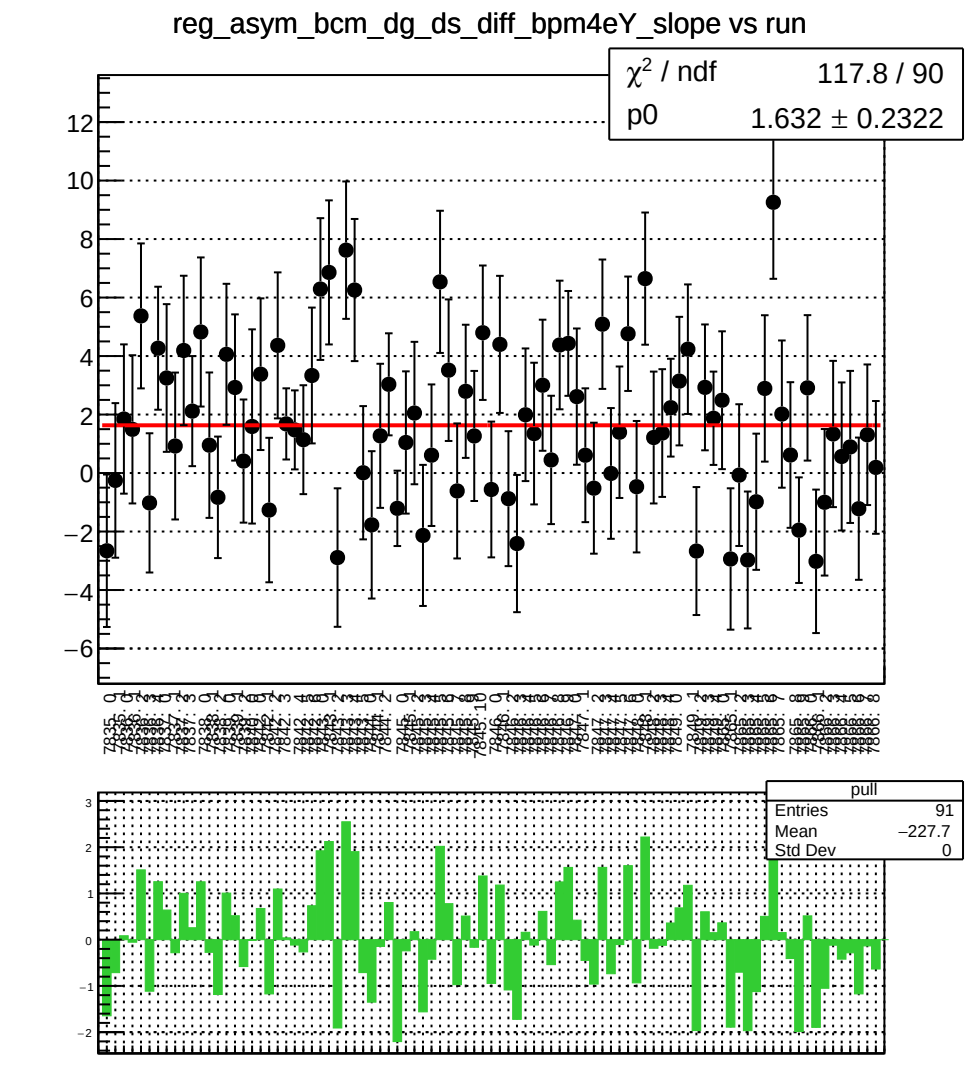

pull1D
Entries 91
Mean 0.02301
Std Dev 1.543

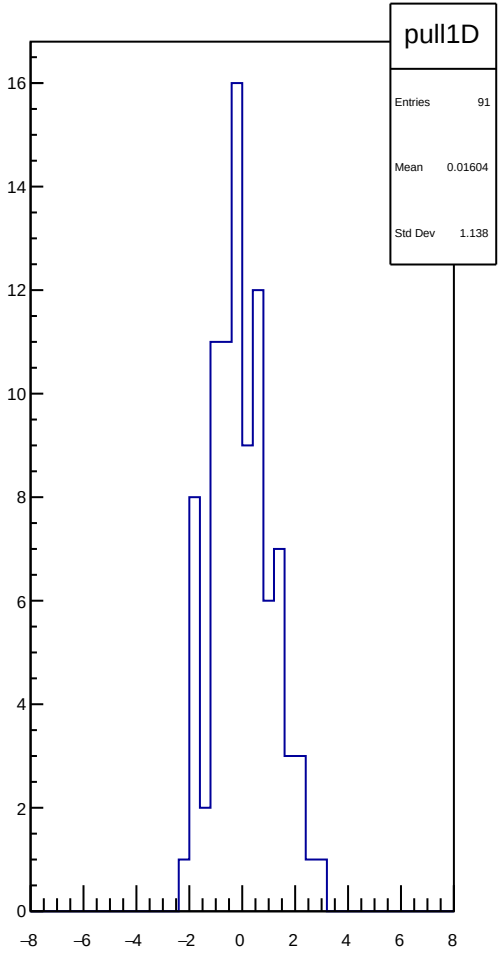

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 754 / 90
p0 5.835 ± 0.1683
pull
Entries 91
Mean 9.478
Std Dev 0
pull1D
Entries 91
Mean 1.059
Std Dev 2.386

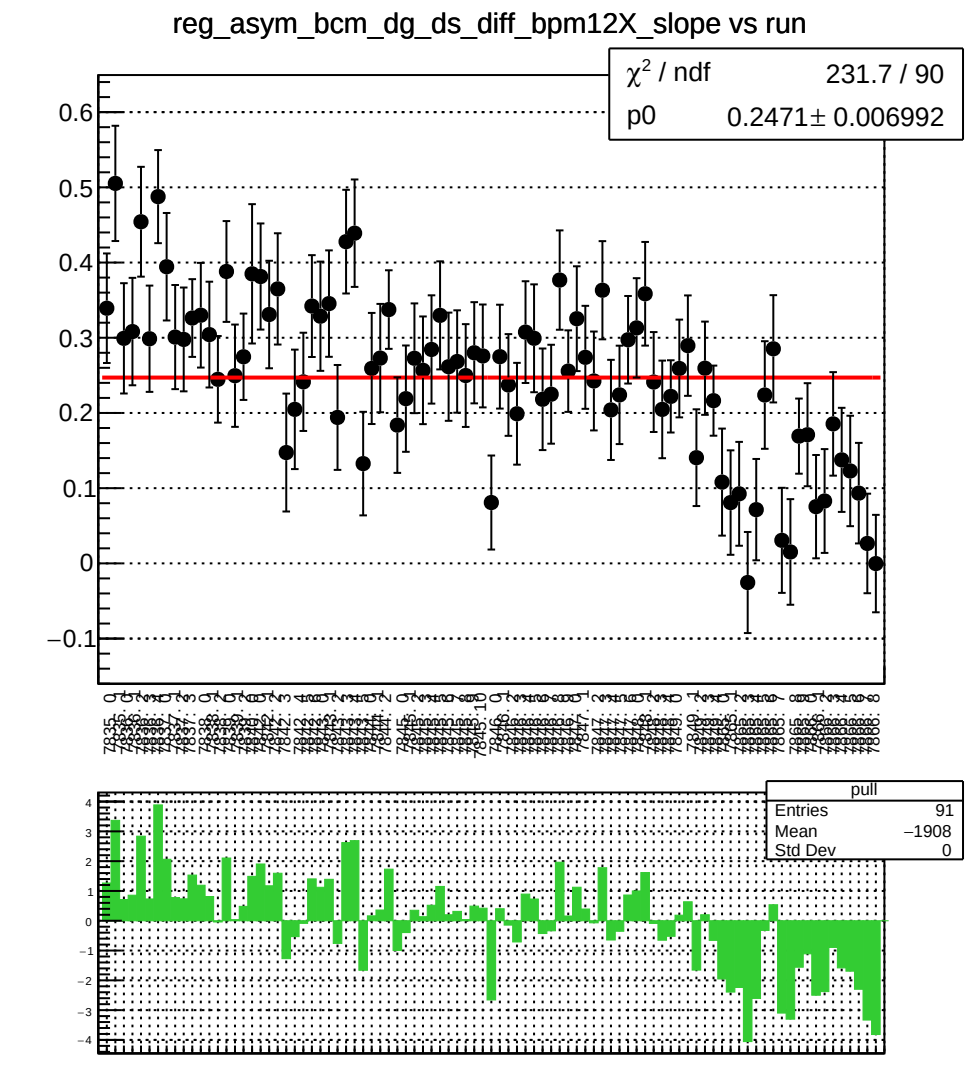

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 115.9 / 90
p0 −1.637 ± 0.1998
pull
Entries 91
Mean −103.7
Std Dev 0

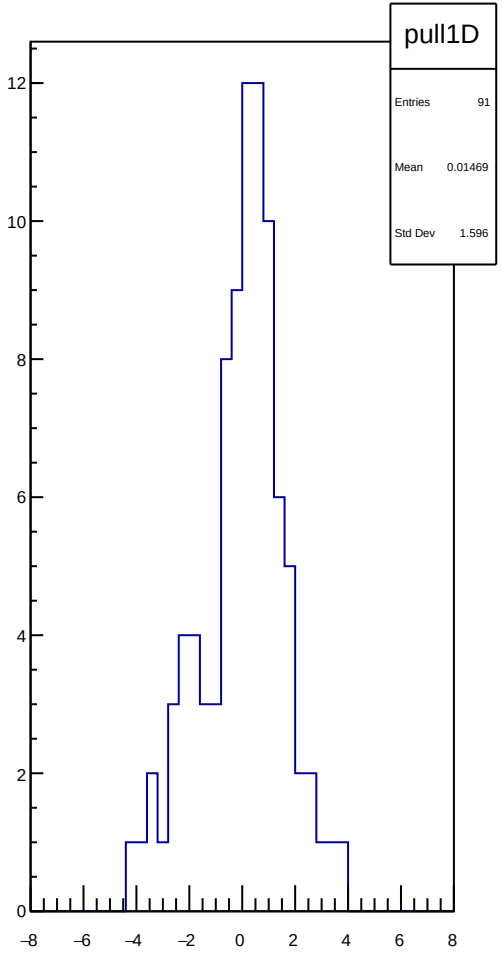

pull1D
Entries 91
Mean −0.03822
Std Dev 1.128

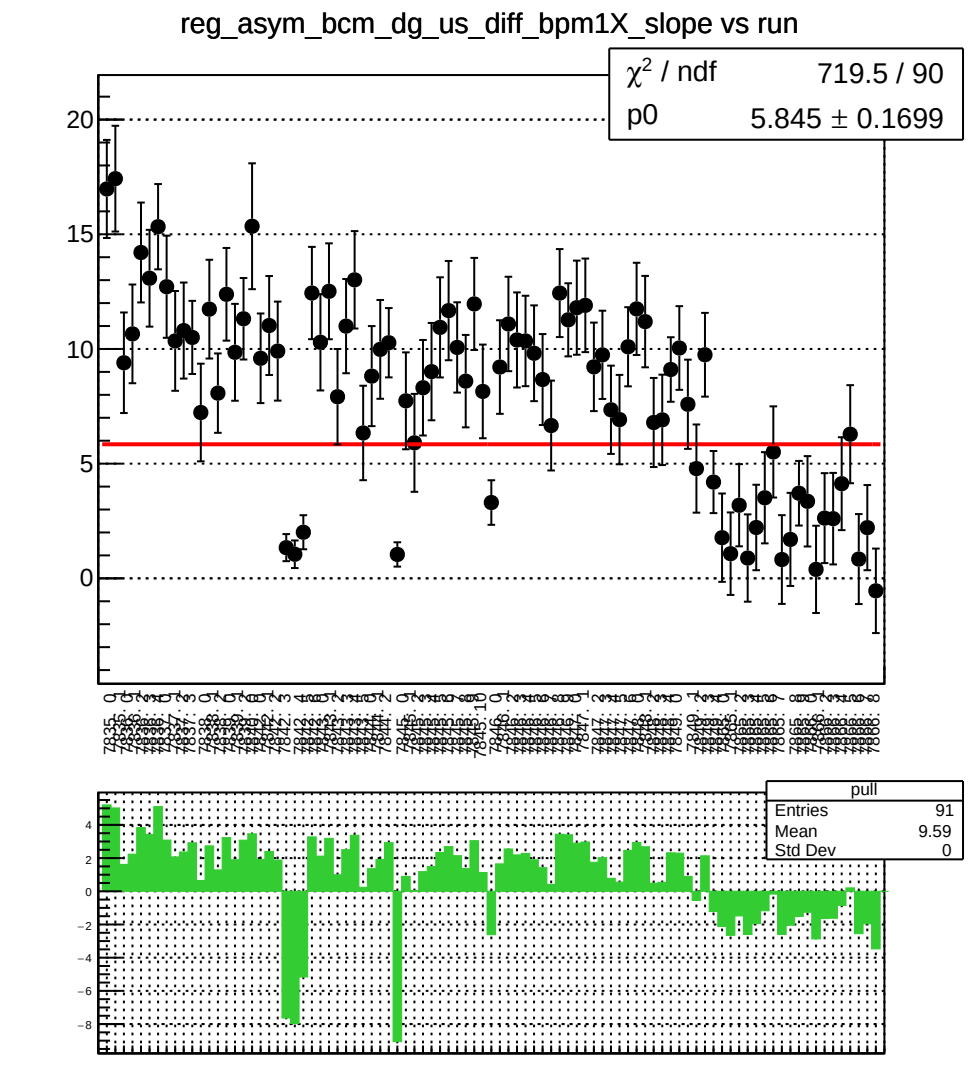

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 858.1 / 90
p0 −4.809 ± 0.1464
pull
Entries 91
Mean 17.72
Std Dev 0
pull1D
Entries 91
Mean −1.435
Std Dev 2.234

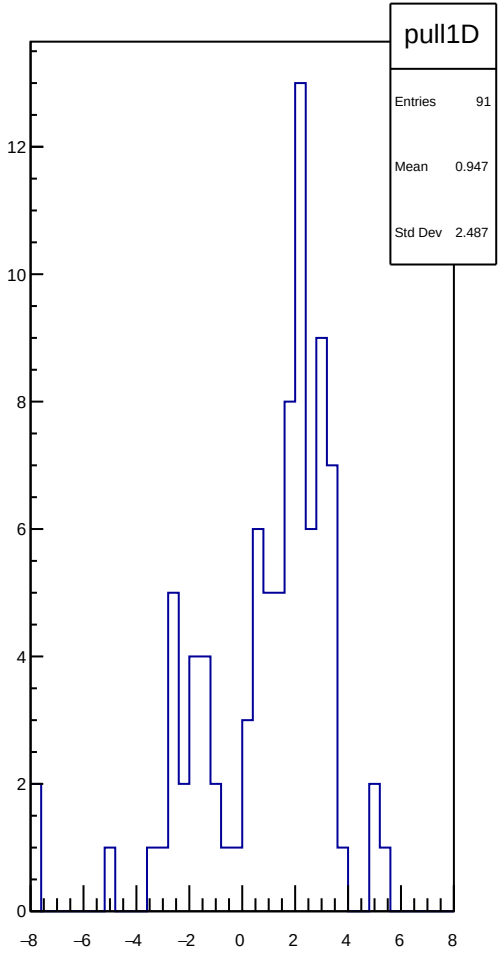

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 117.8 / 90
p0 1.632 ± 0.2322
pull
Entries 91
Mean −227.7
Std Dev 0

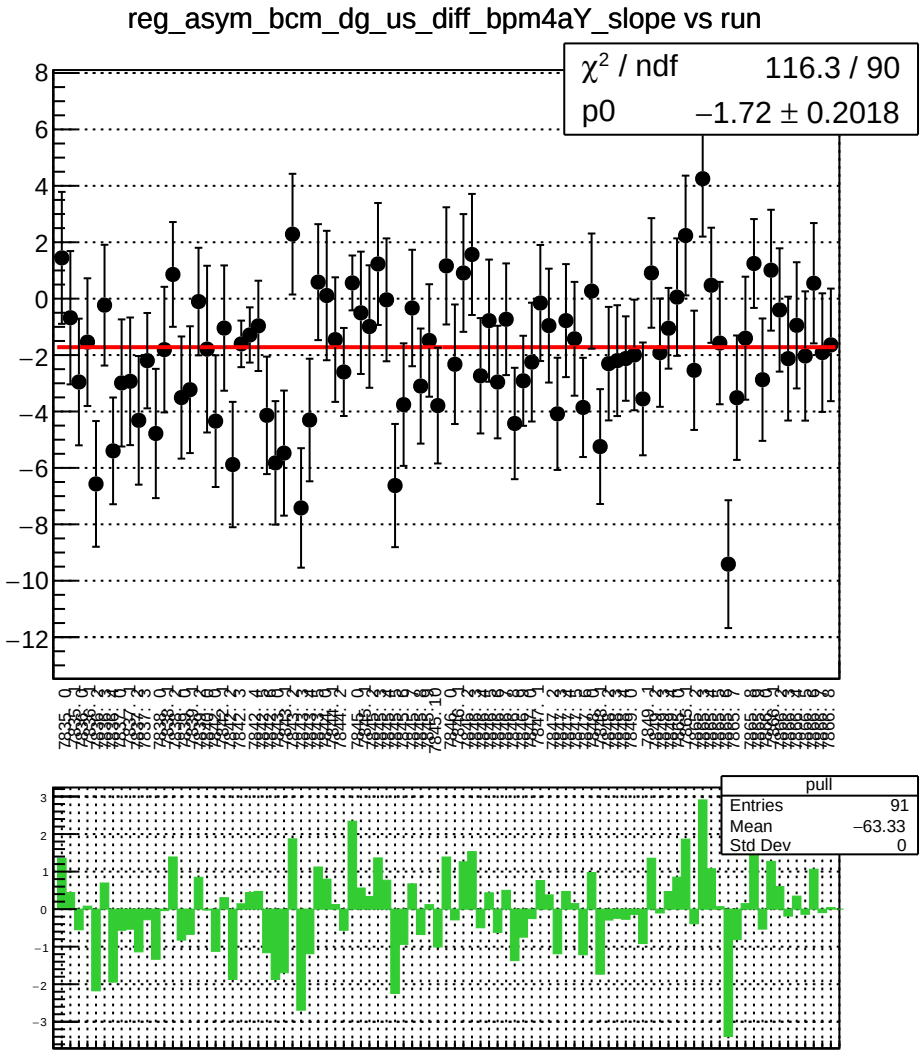

pull1D
Entries 91
Mean 0.01604
Std Dev 1.138

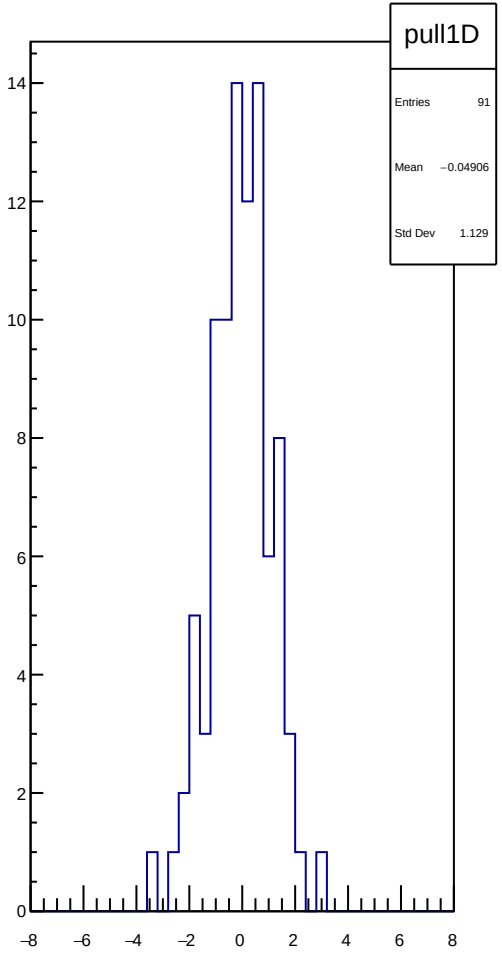

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 231.7 / 90
p0 0.2471± 0.006992
pull
Entries 91
Mean −1908
Std Dev 0

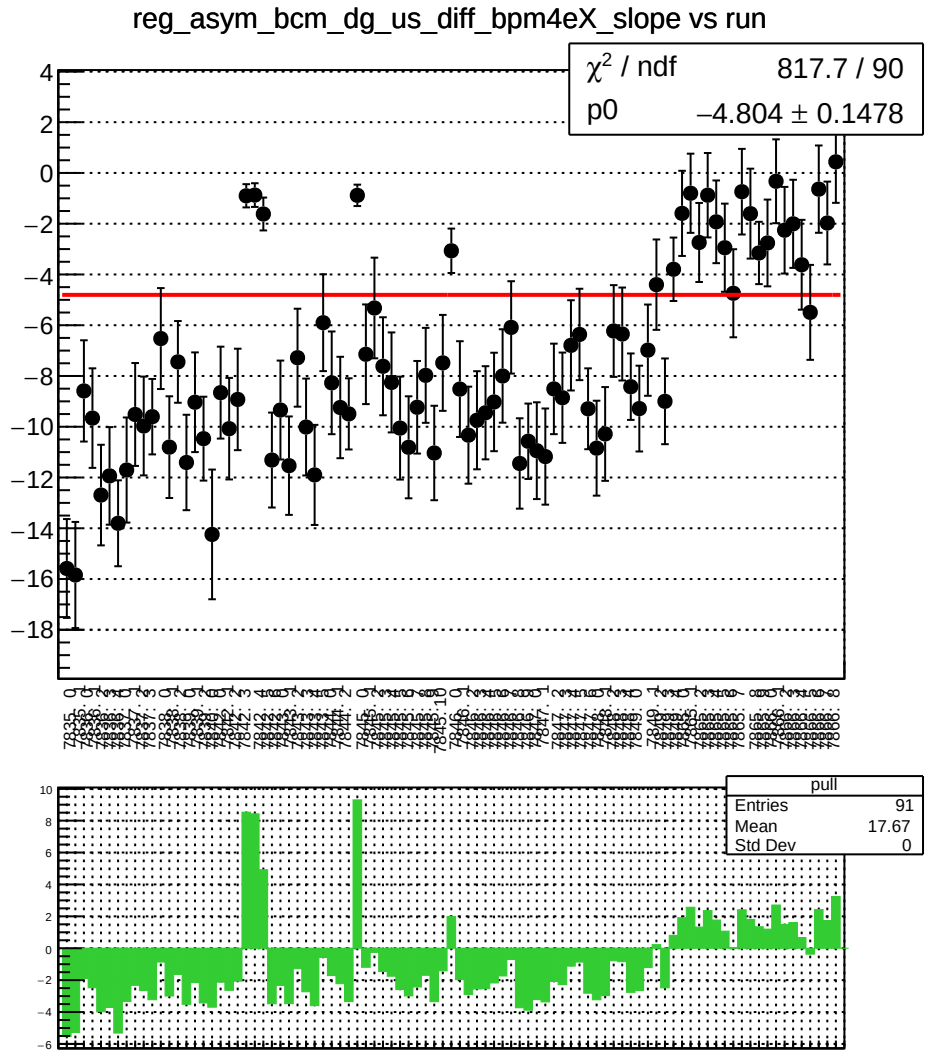

pull1D
Entries 91
Mean 0.01469
Std Dev 1.596

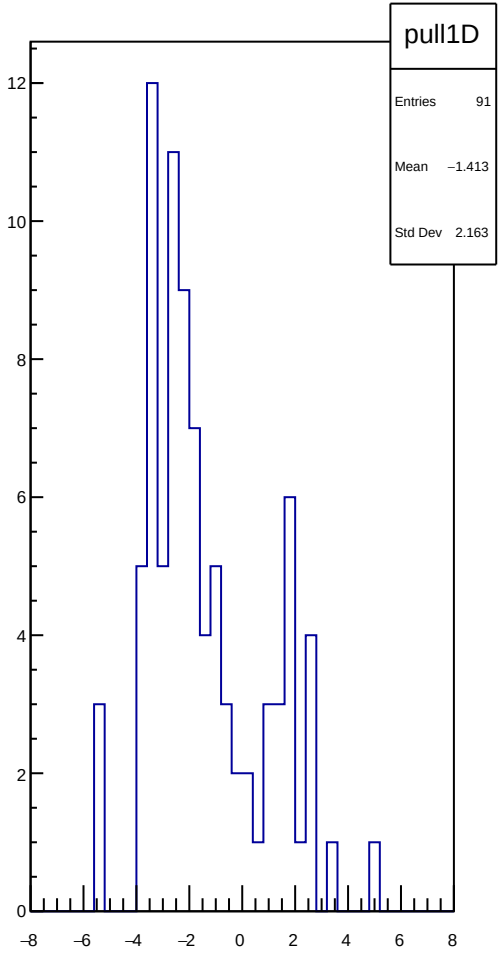

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 719.5 / 90
p0 5.845 ± 0.1699
pull
Entries 91
Mean 9.59
Std Dev 0

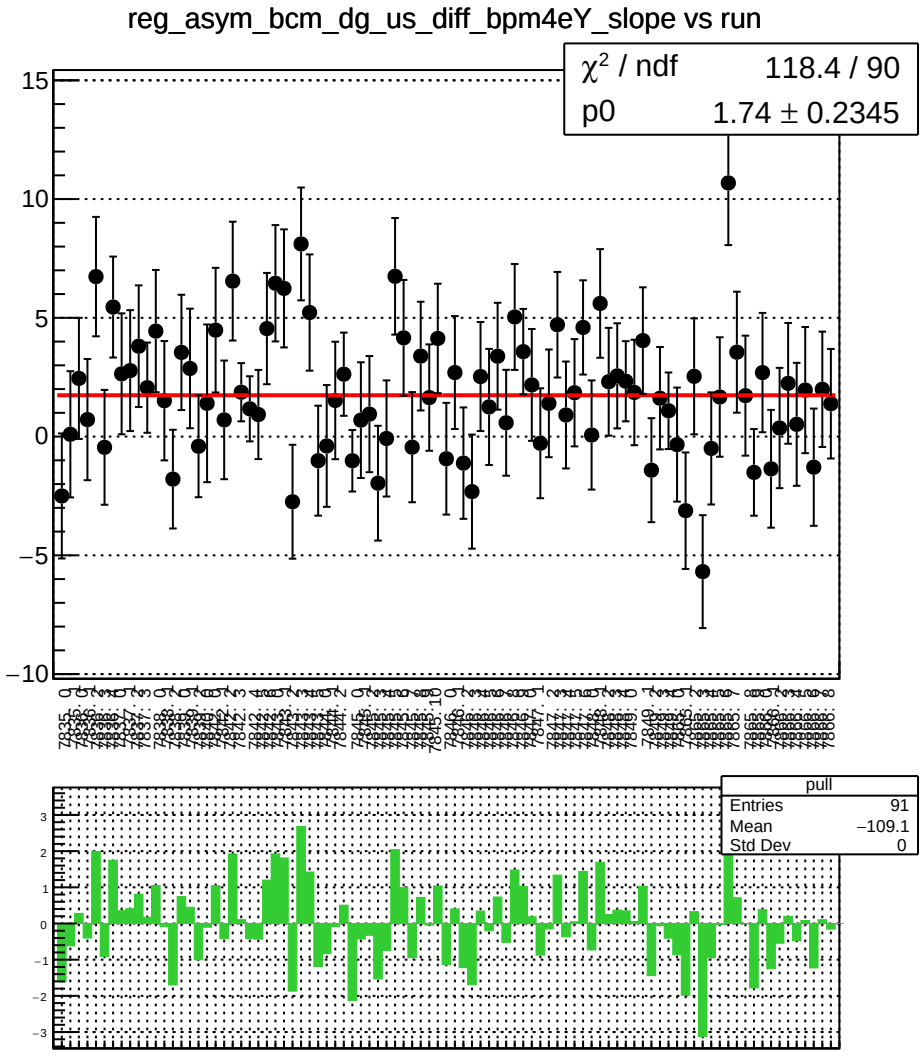

pull1D
Entries 91
Mean 0.947
Std Dev 2.487

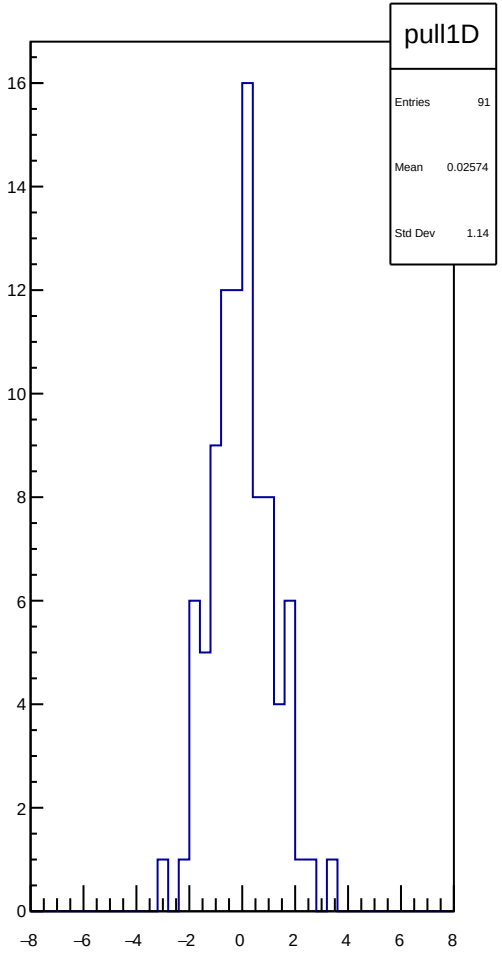

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 116.3 / 90
p0 −1.72 ± 0.2018
pull
Entries 91
Mean −63.33
Std Dev 0

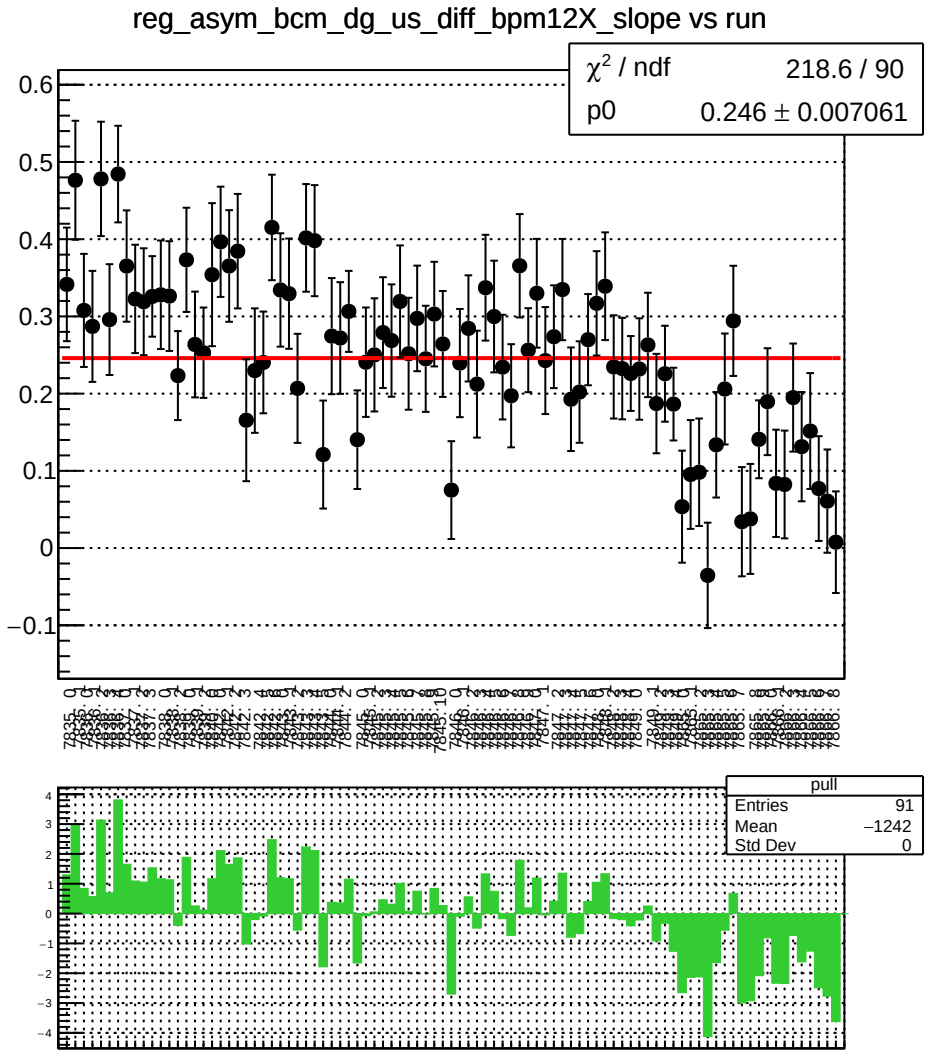

pull1D
Entries 91
Mean −0.04906
Std Dev 1.129

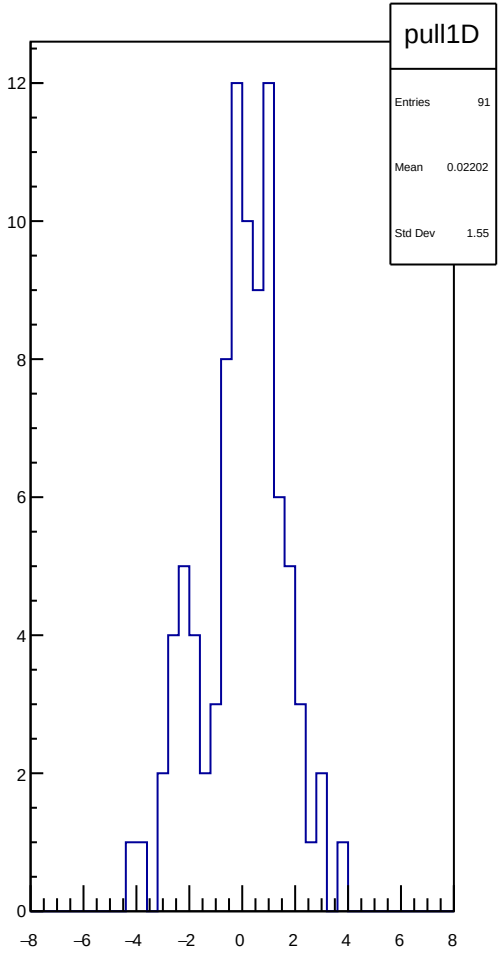

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 817.7 / 90
p0 −4.804 ± 0.1478
pull
Entries 91
Mean 17.67
Std Dev 0

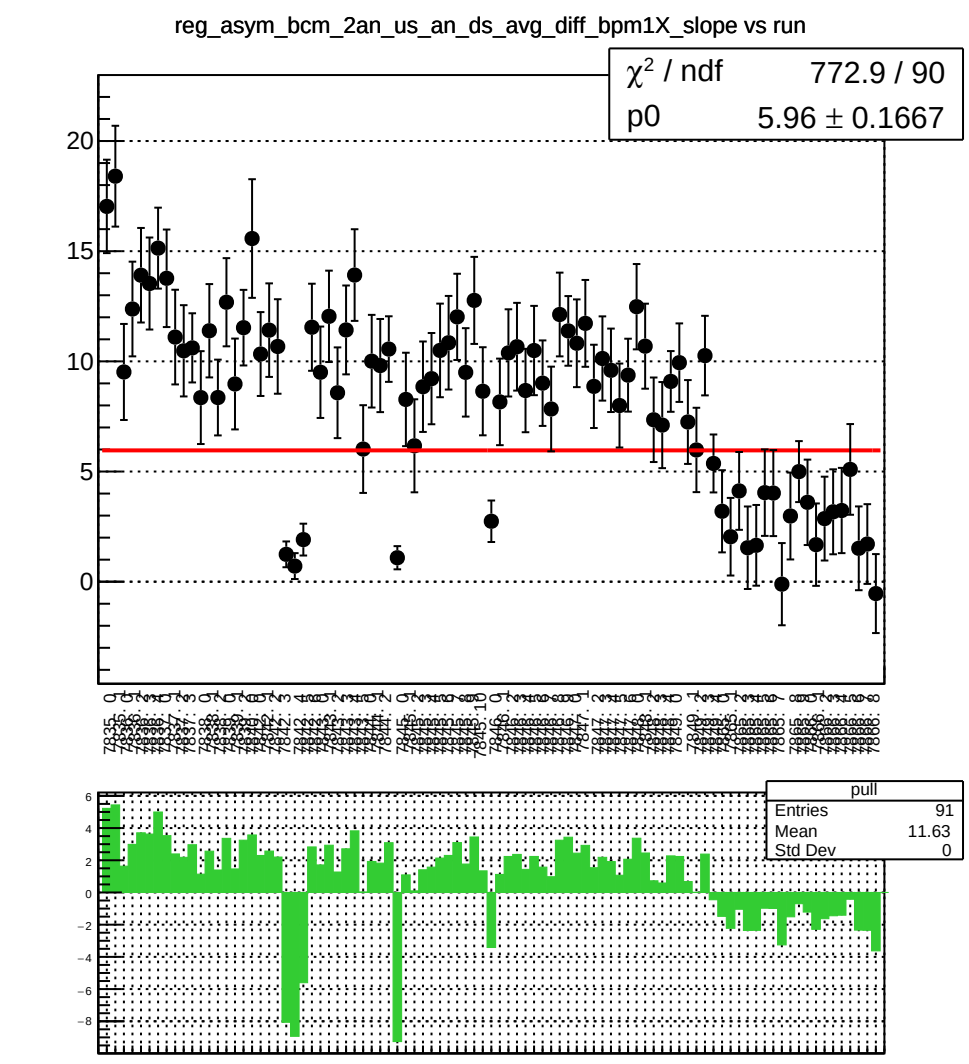

pull1D
Entries 91
Mean −1.413
Std Dev 2.163

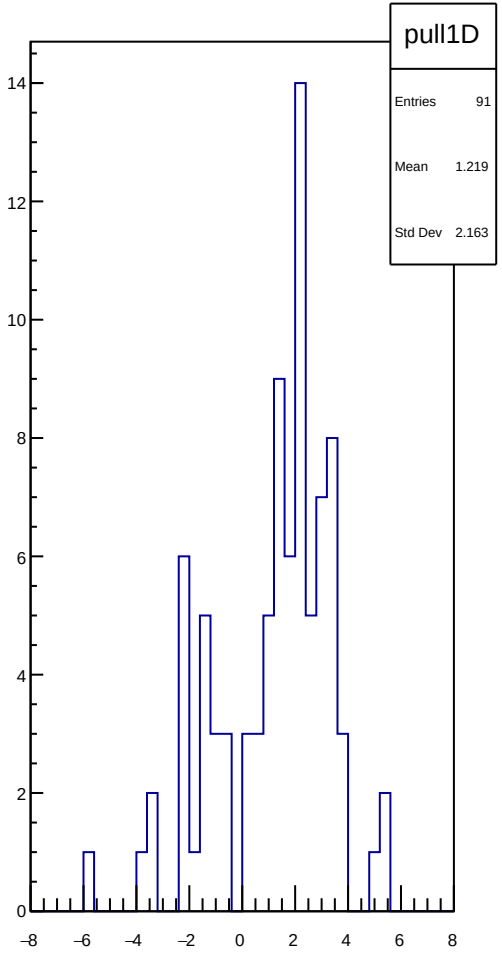

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 118.4 / 90
p0 1.74 ± 0.2345
pull
Entries 91
Mean −109.1
Std Dev 0

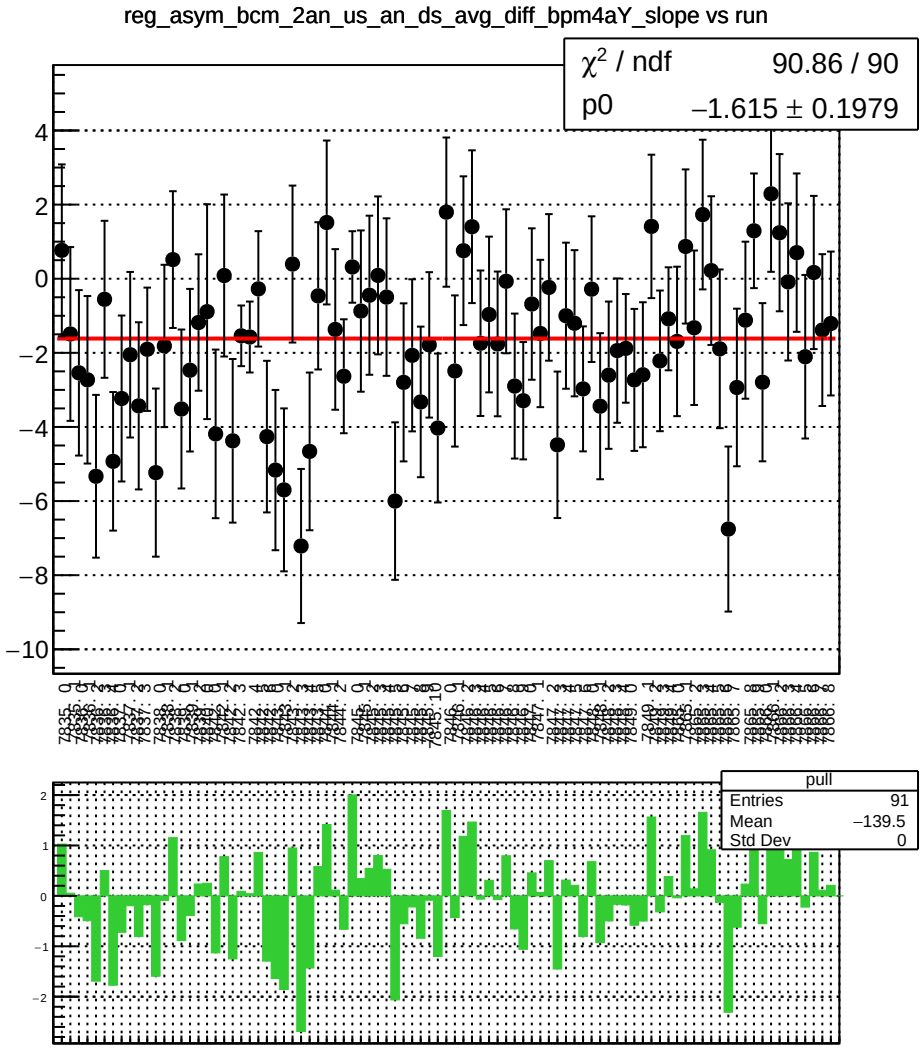

pull1D
Entries 91
Mean 0.02574
Std Dev 1.14

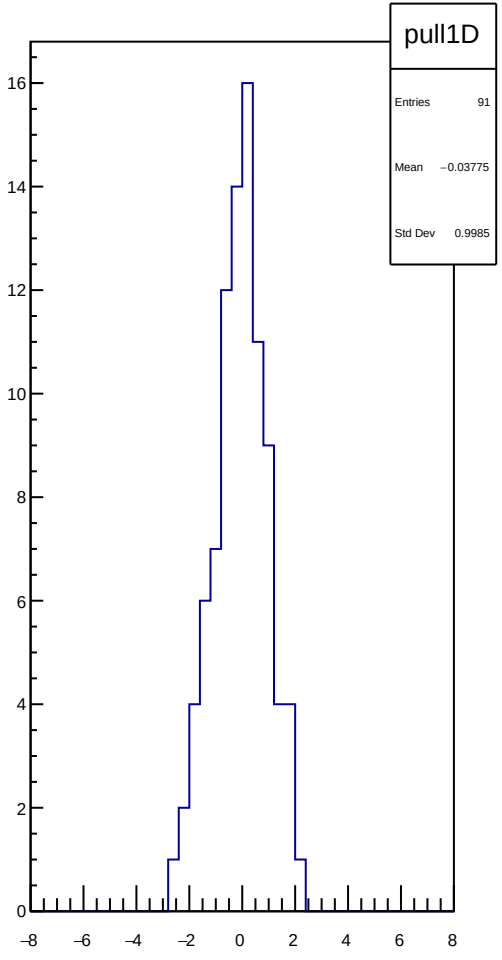

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 218.6 / 90
p0 0.246 ± 0.007061
pull
Entries 91
Mean −1242
Std Dev 0

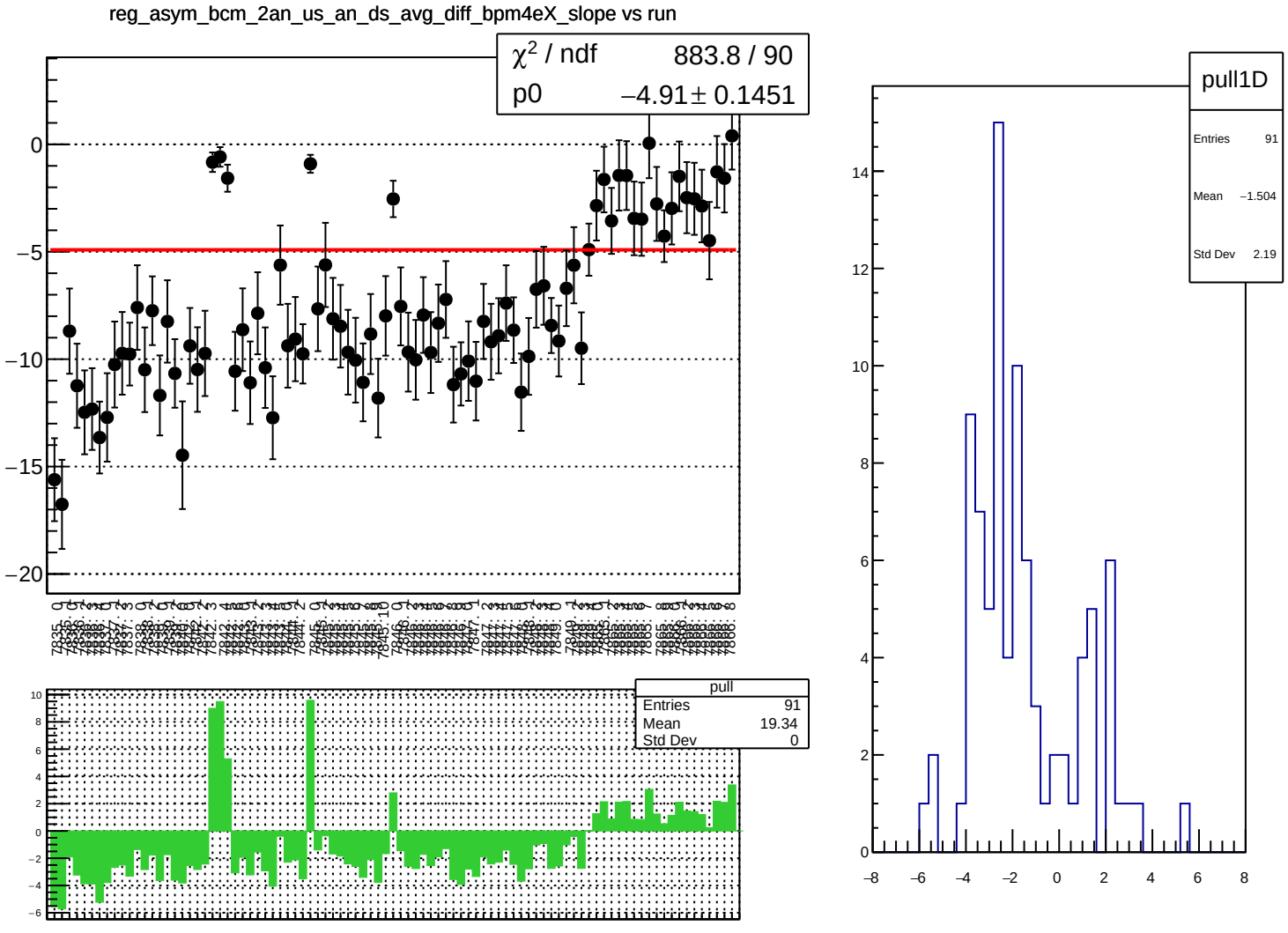

pull1D
Entries 91
Mean 0.02202
Std Dev 1.55

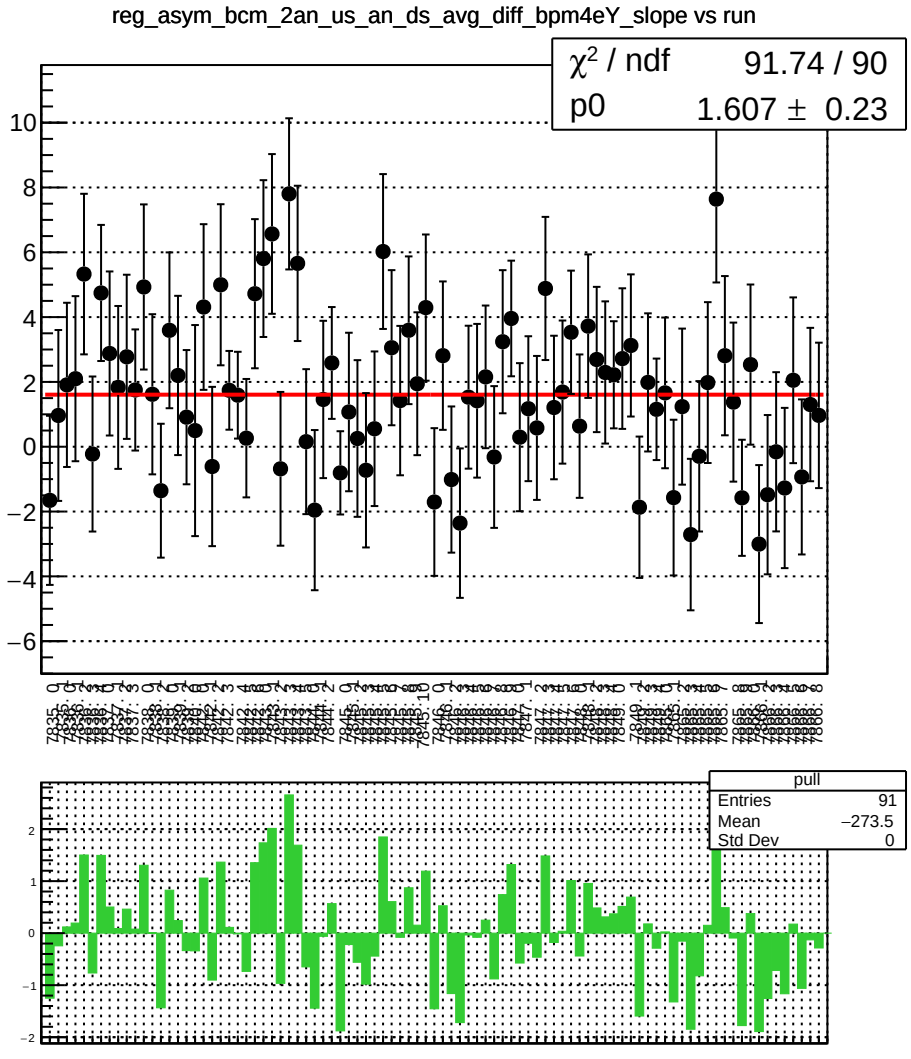

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 772.9 / 90
p0 5.96 ± 0.1667
pull
Entries 91
Mean 11.63
Std Dev 0

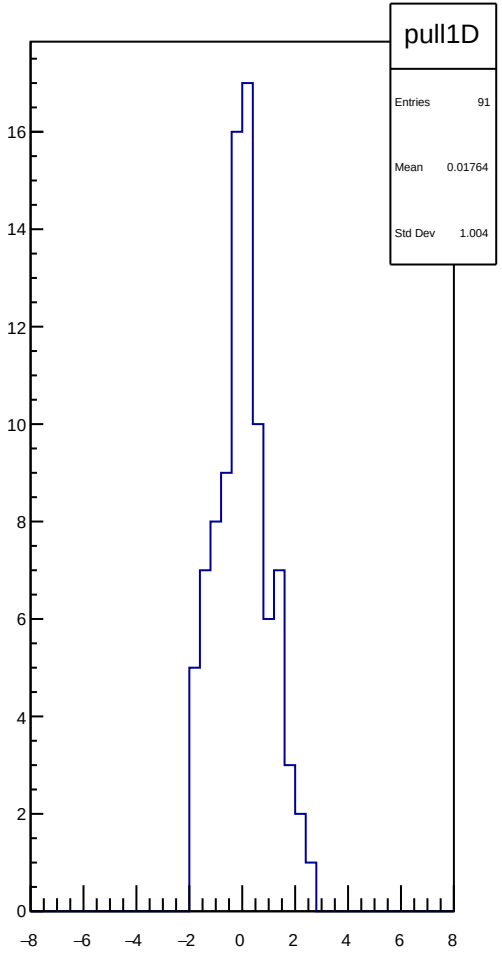

pull1D
Entries 91
Mean 1.219
Std Dev 2.163

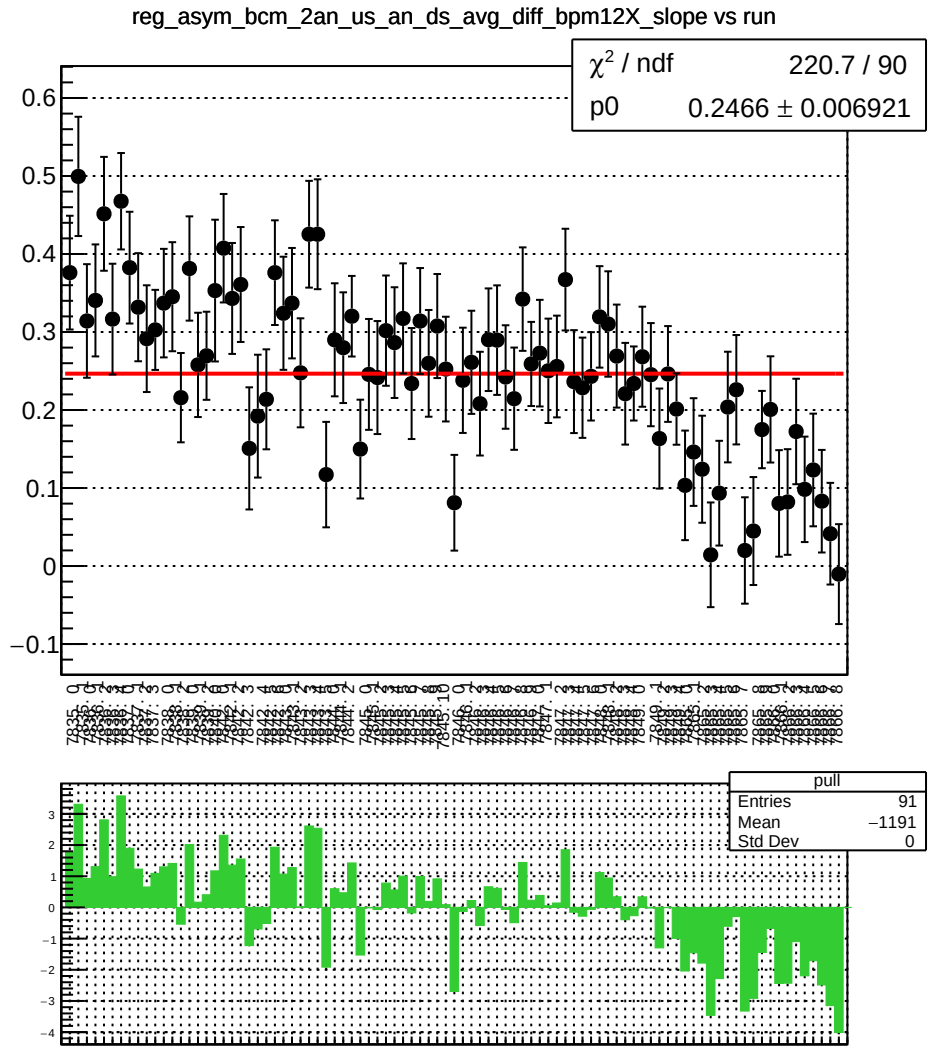

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.86 / 90
p0 −1.615 ± 0.1979
pull
Entries 91
Mean −139.5
Std Dev 0

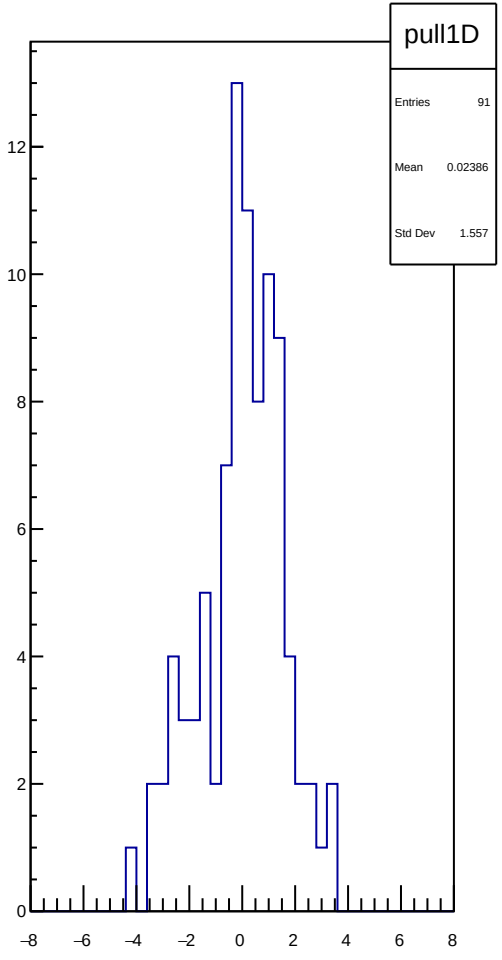

pull1D
Entries 91
Mean −0.03775
Std Dev 0.9985

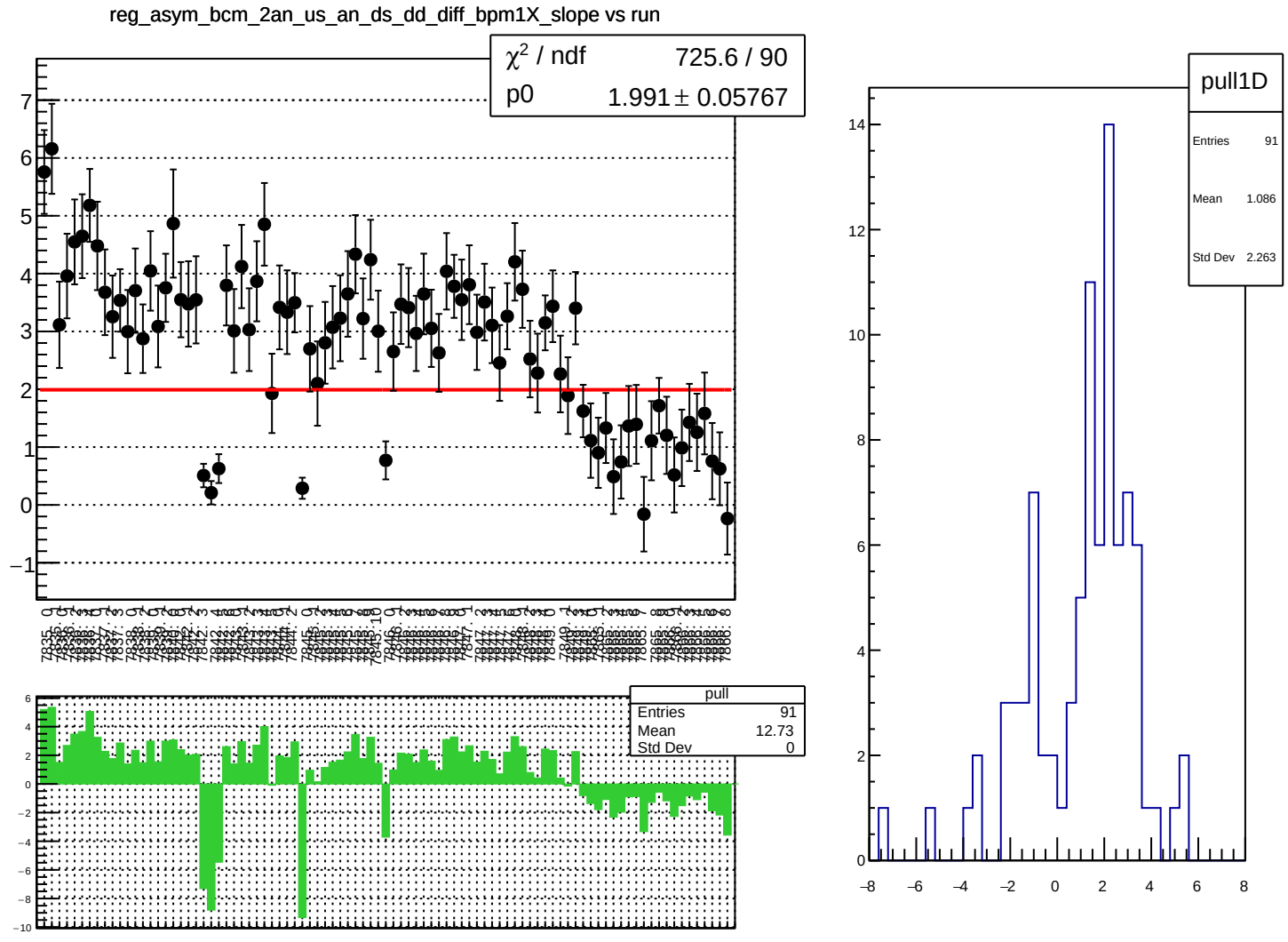

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 883.8 / 90
p0 −4.91 ± 0.1451
pull
Entries 91
Mean 19.34
Std Dev 0
pull1D
Entries 91
Mean −1.504
Std Dev 2.19

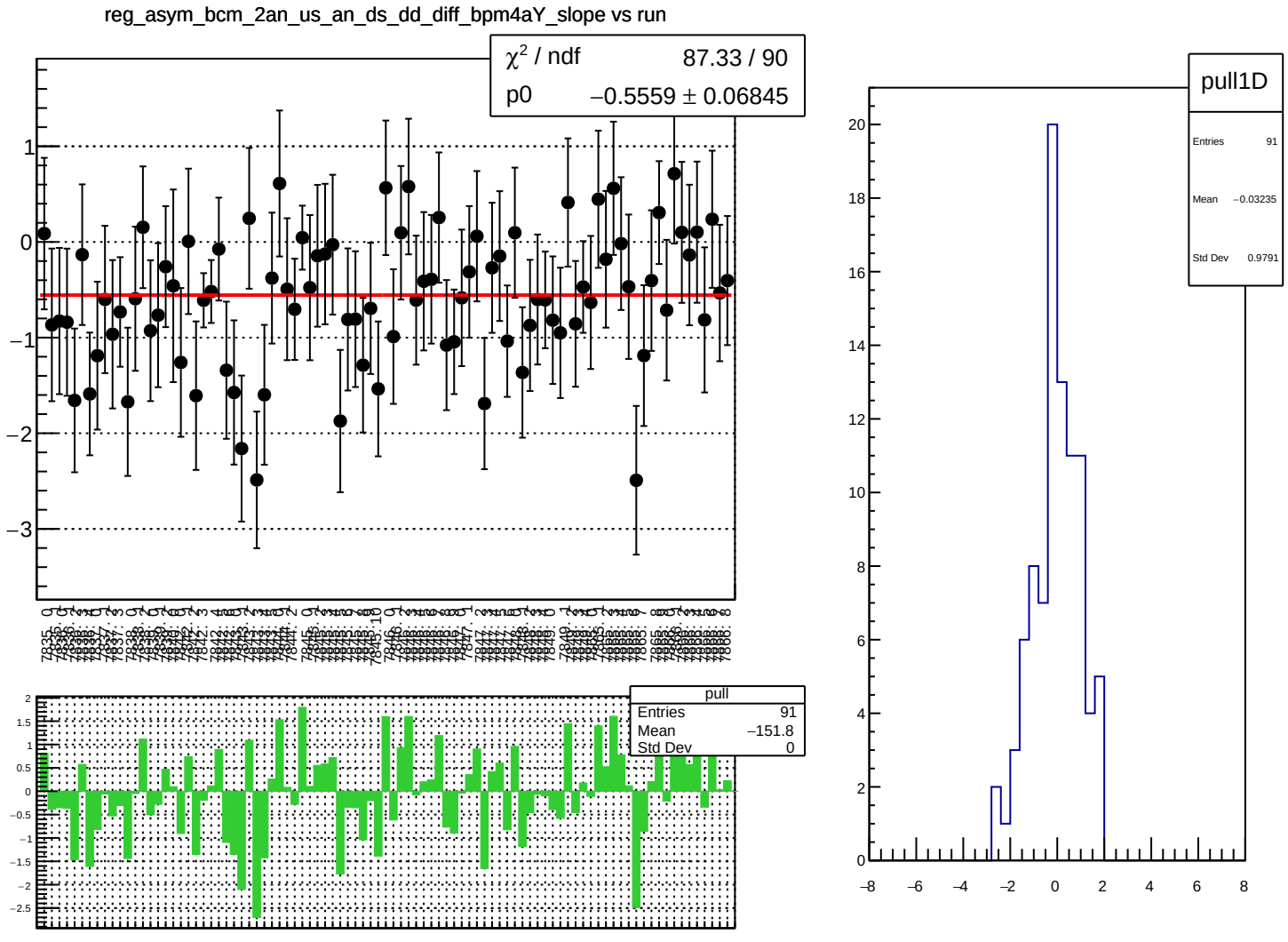

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.74 / 90
p0 1.607 ± 0.23
pull
Entries 91
Mean −273.5
Std Dev 0

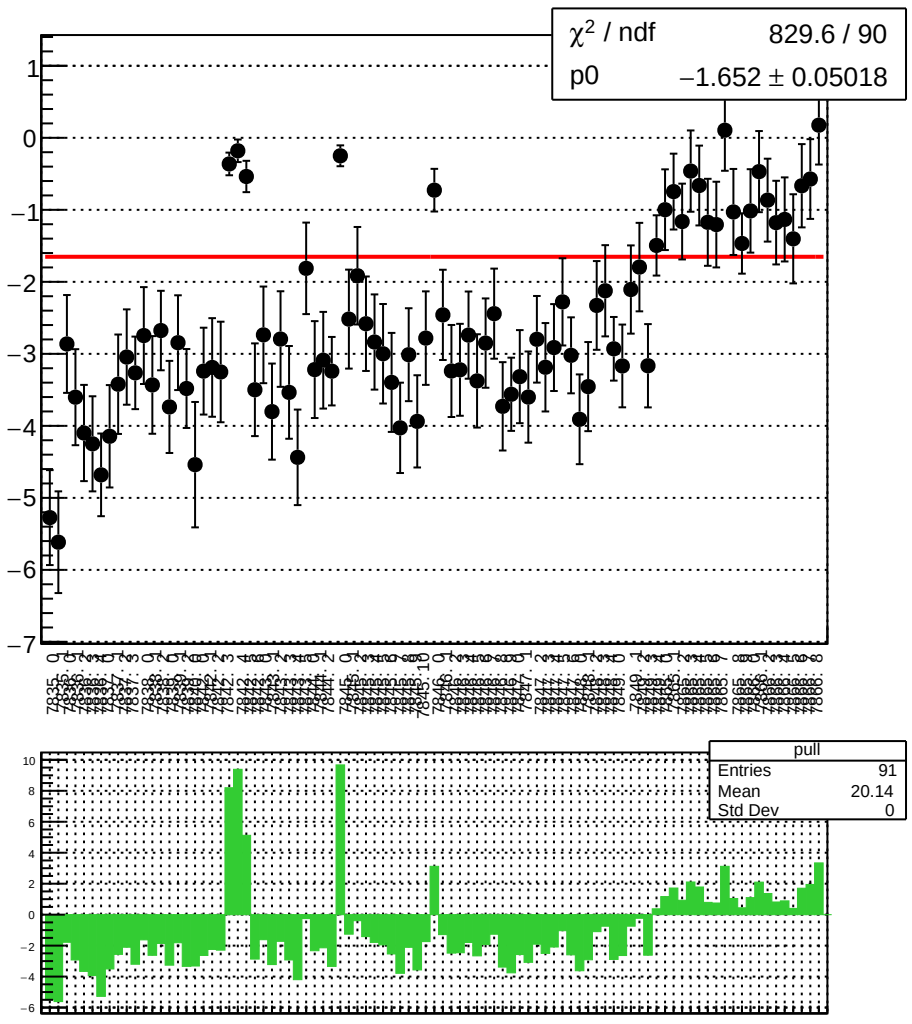

pull1D
Entries 91
Mean 0.01764
Std Dev 1.004

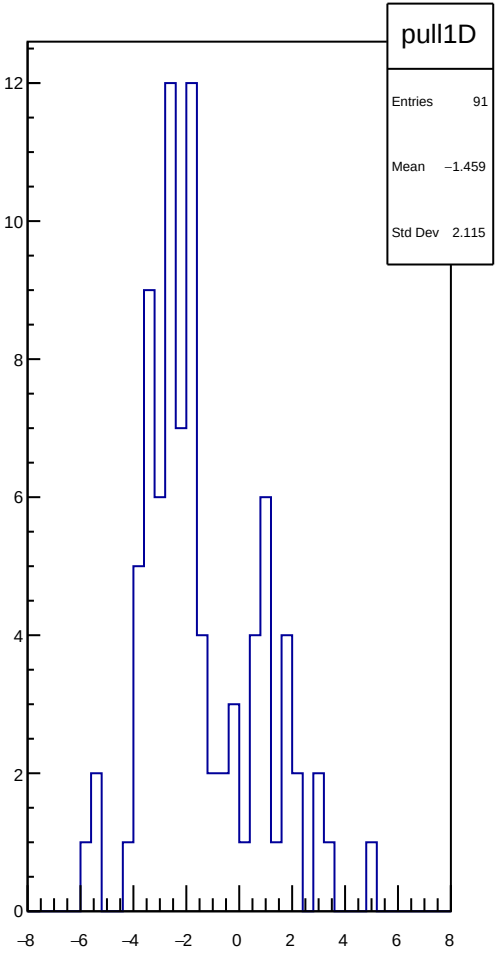

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 220.7 / 90
p0 0.2466 ± 0.006921
pull
Entries 91
Mean −1191
Std Dev 0

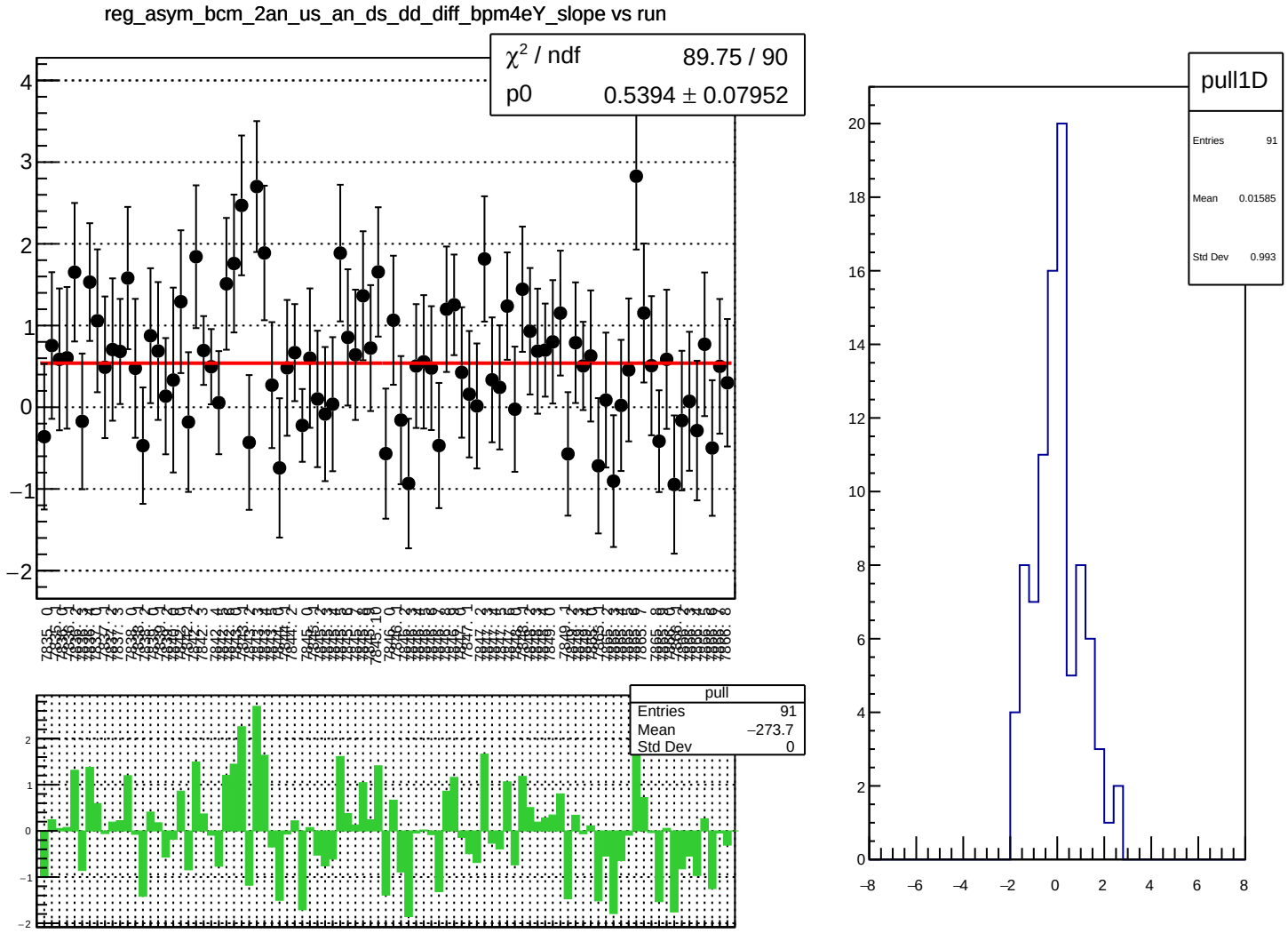

pull1D
Entries 91
Mean 0.02386
Std Dev 1.557

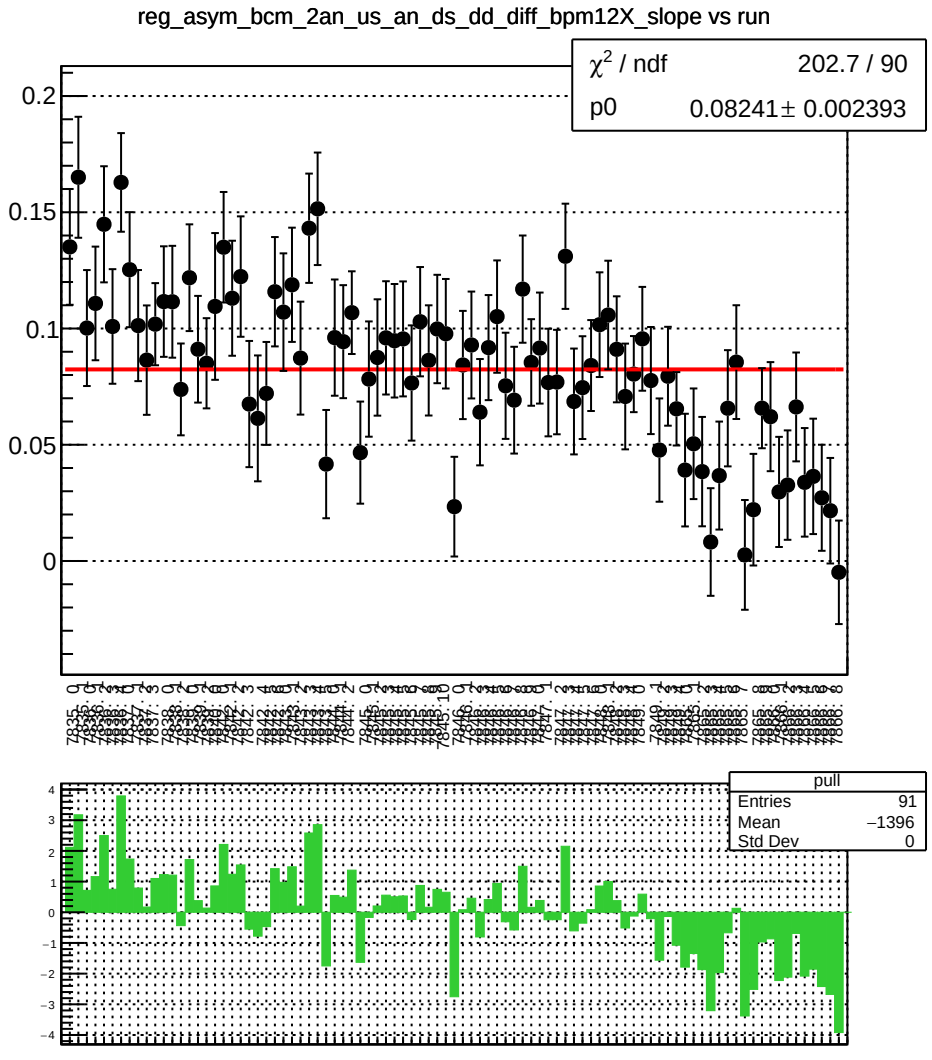

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 725.6 / 90
p0 1.991 ± 0.05767
pull
Entries 91
Mean 12.73
Std Dev 0
pull1D
Entries 91
Mean 1.086
Std Dev 2.263

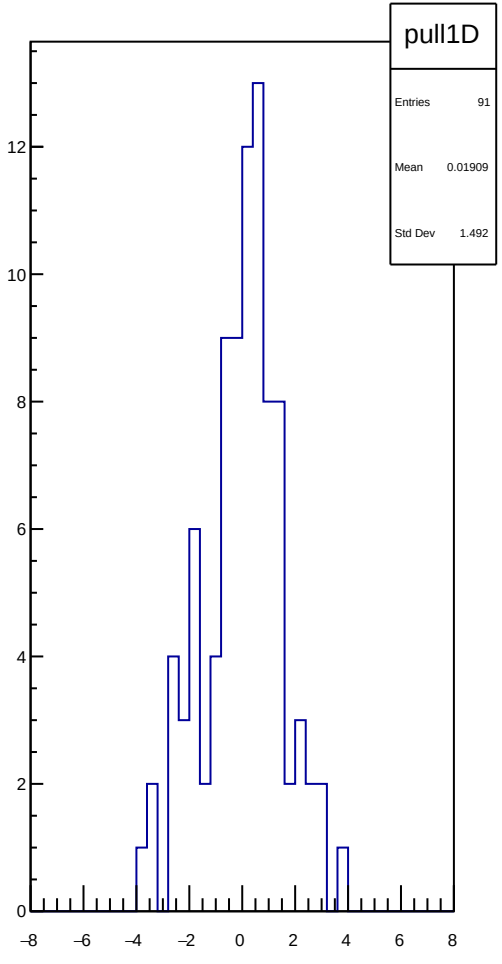

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.33 / 90
p0 −0.5559 ± 0.06845
pull
Entries 91
Mean −151.8
Std Dev 0
pull1D
Entries 91
Mean −0.03235
Std Dev 0.9791

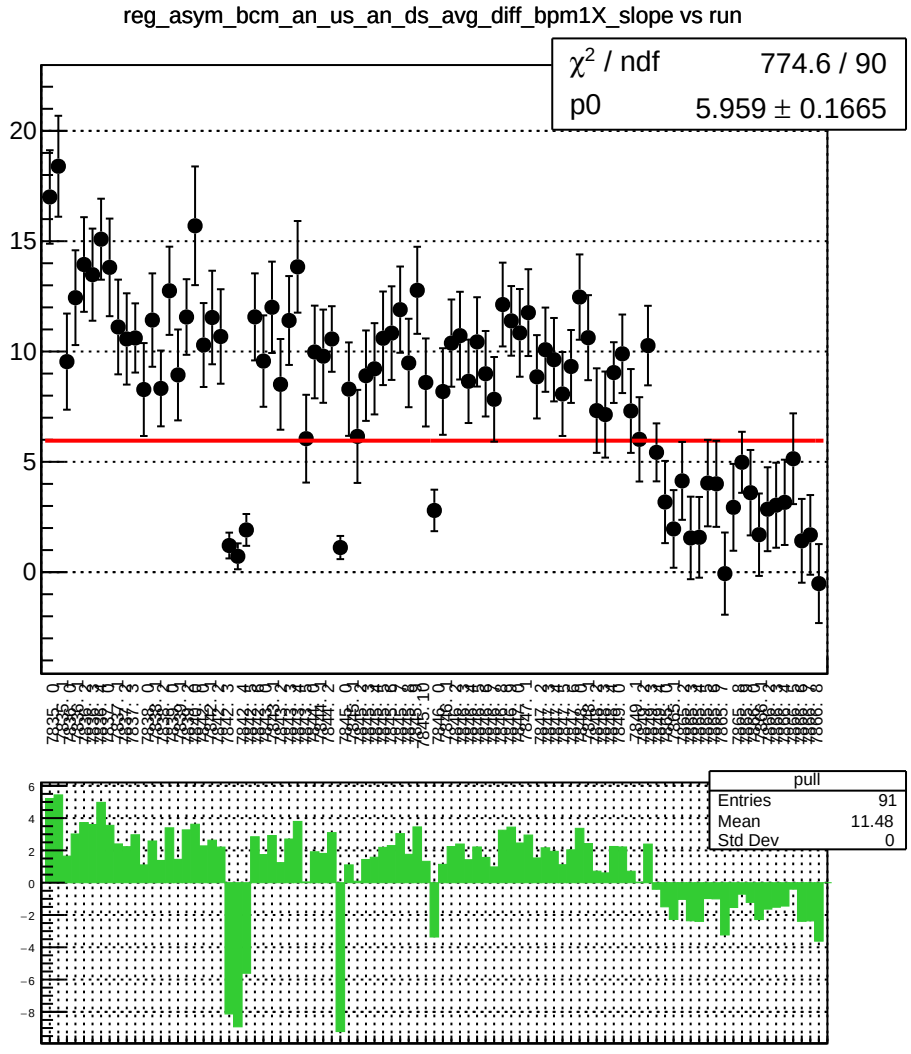

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 829.6 / 90
p0 −1.652 ± 0.05018
pull
Entries 91
Mean 20.14
Std Dev 0

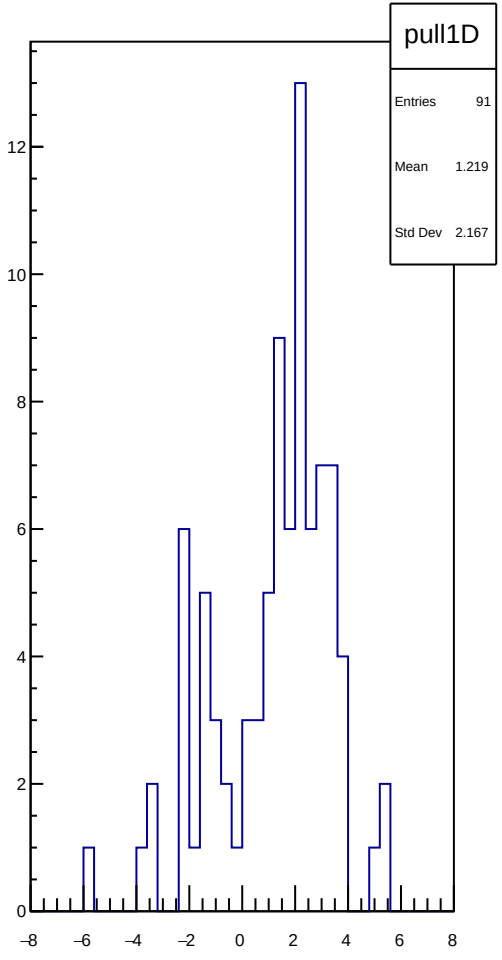

pull1D
Entries 91
Mean −1.459
Std Dev 2.115

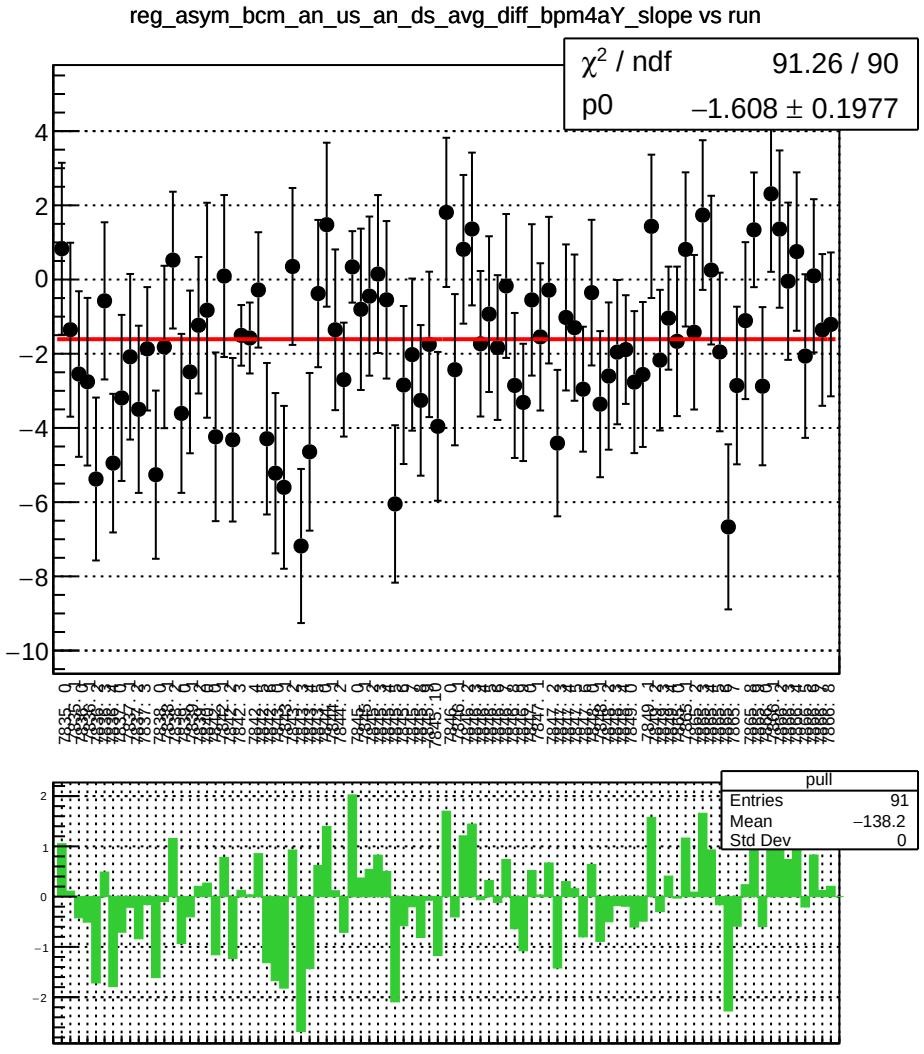

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.75 / 90
p0 0.5394 ± 0.07952
pull
Entries 91
Mean −273.7
Std Dev 0
pull1D
Entries 91
Mean 0.01585
Std Dev 0.993

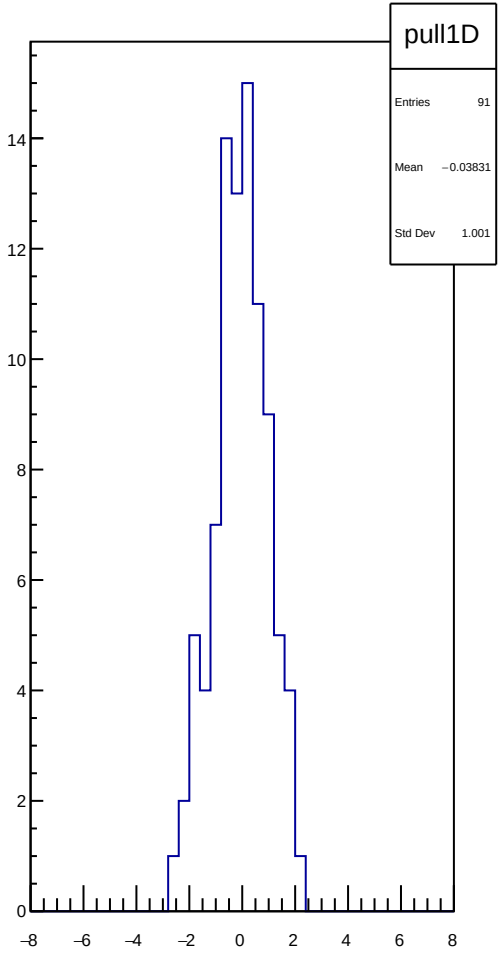

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 202.7 / 90
p0 0.08241± 0.002393
pull
Entries 91
Mean −1396
Std Dev 0

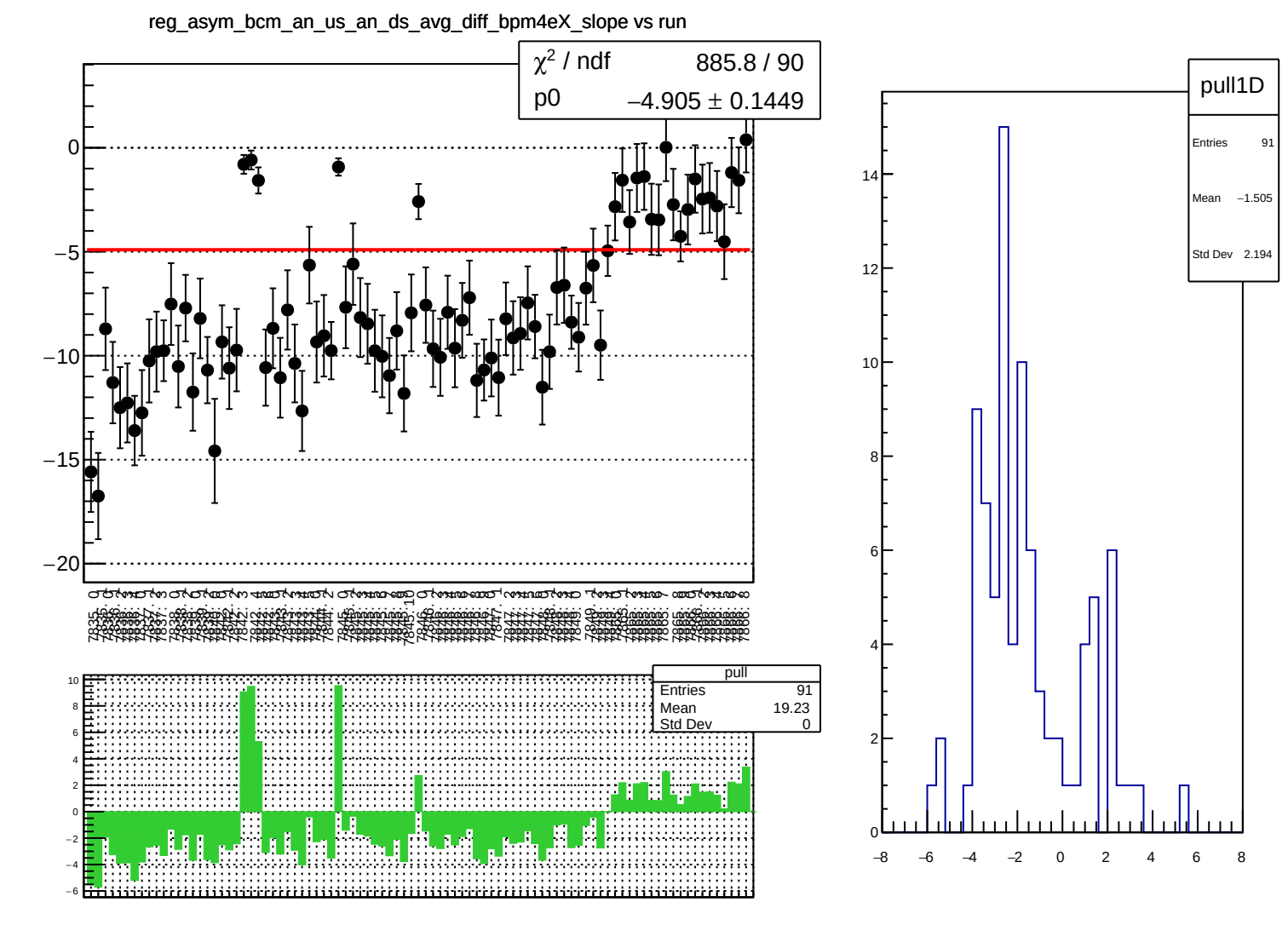

pull1D
Entries 91
Mean 0.01909
Std Dev 1.492

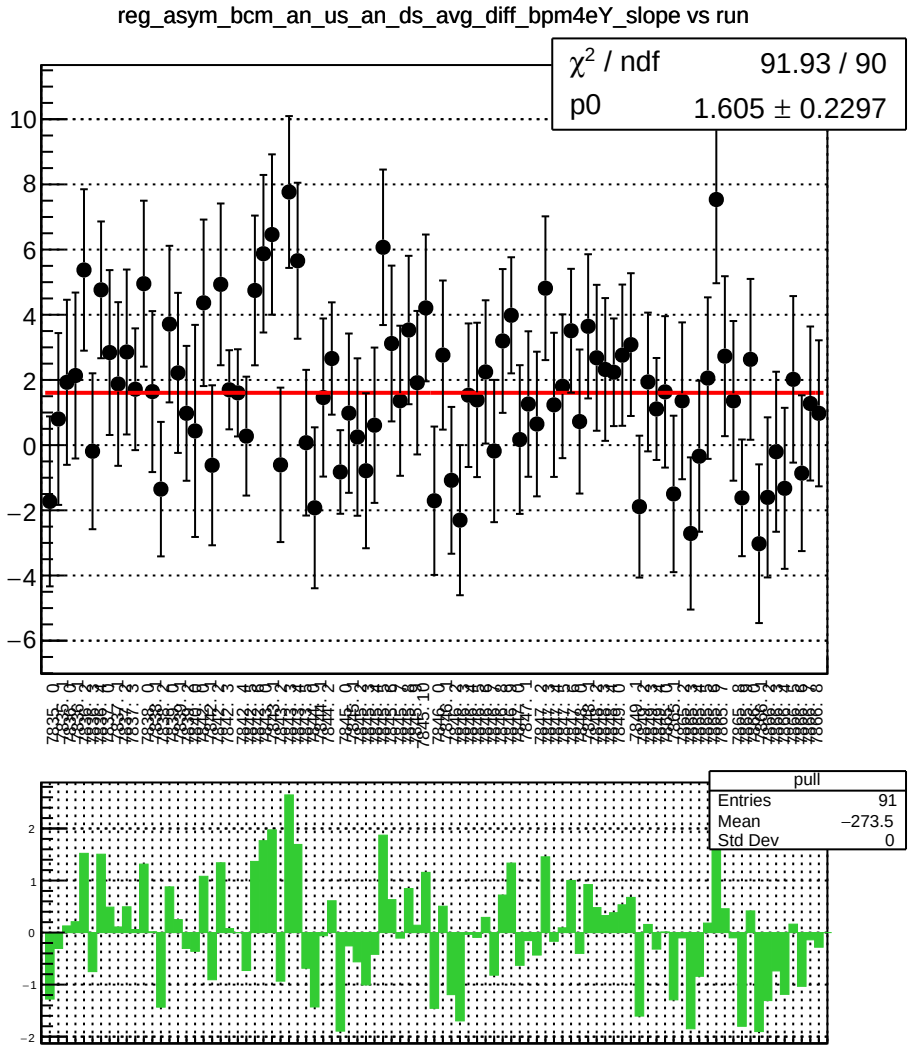

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 774.6 / 90
p0 5.959 ± 0.1665
pull
Entries 91
Mean 11.48
Std Dev 0

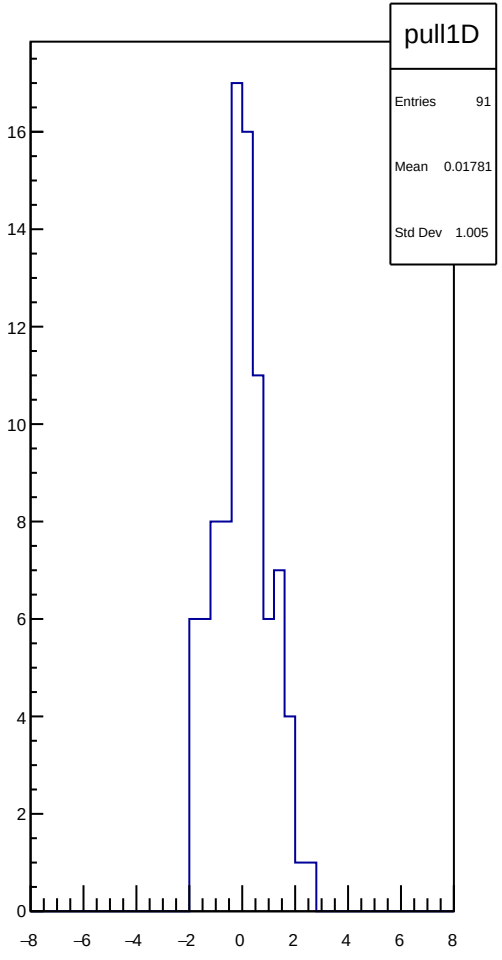

pull1D
Entries 91
Mean 1.219
Std Dev 2.167

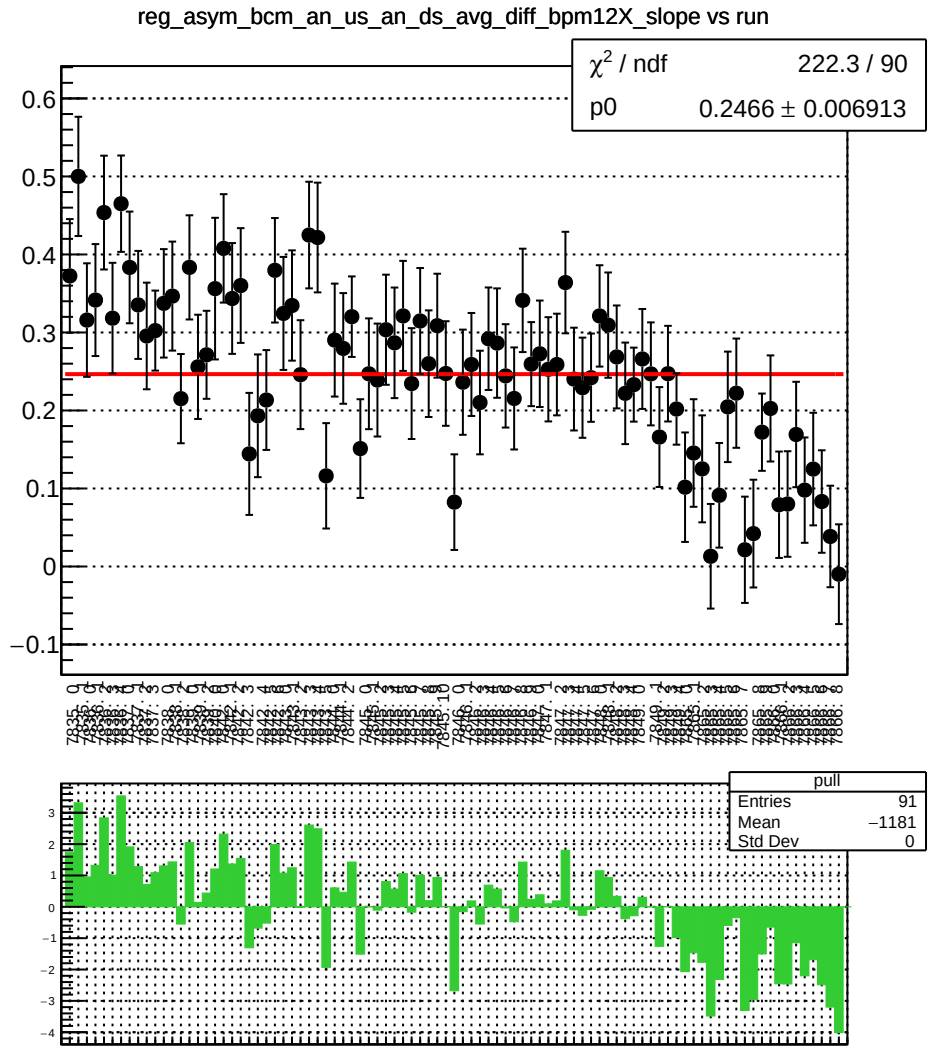

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.26 / 90
p0 −1.608 ± 0.1977
pull
Entries 91
Mean −138.2
Std Dev 0

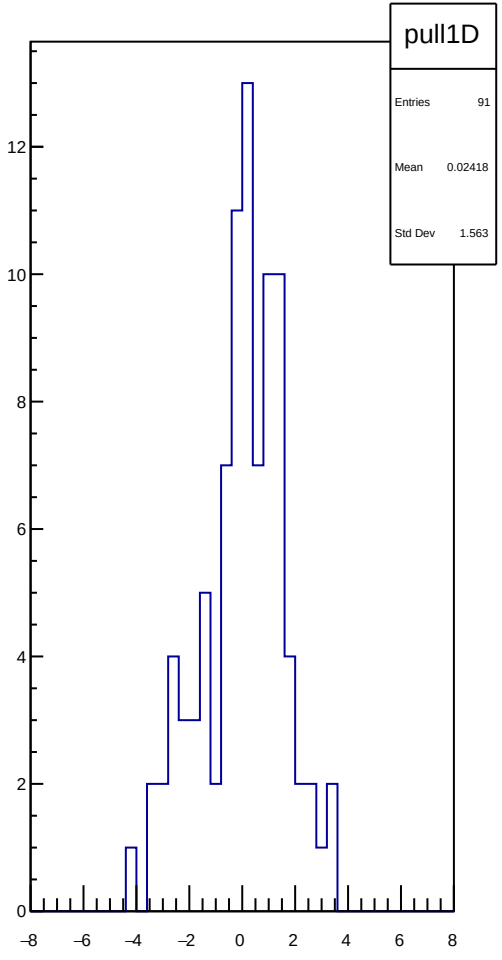

pull1D
Entries 91
Mean −0.03831
Std Dev 1.001

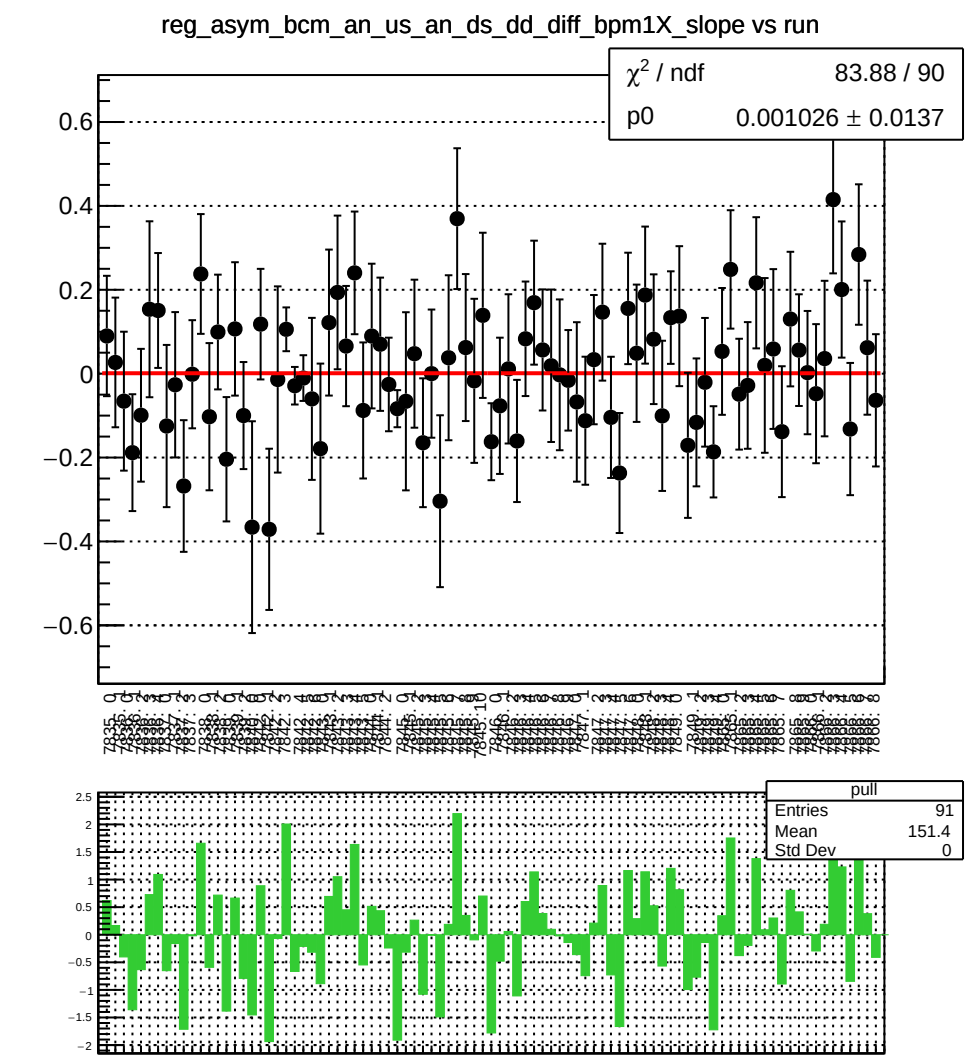

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 885.8 / 90
p0 −4.905 ± 0.1449
pull
Entries 91
Mean 19.23
Std Dev 0
pull1D
Entries 91
Mean −1.505
Std Dev 2.194

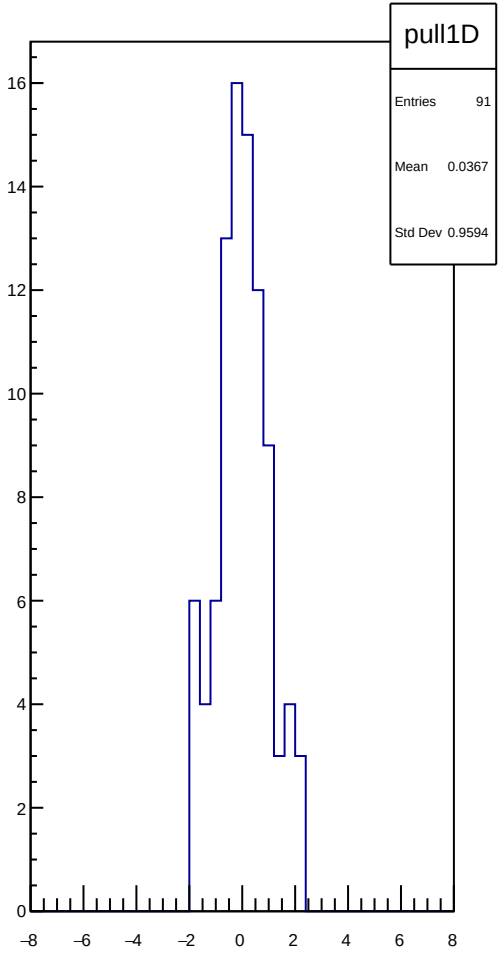

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.93 / 90
p0 1.605 ± 0.2297
pull
Entries 91
Mean −273.5
Std Dev 0

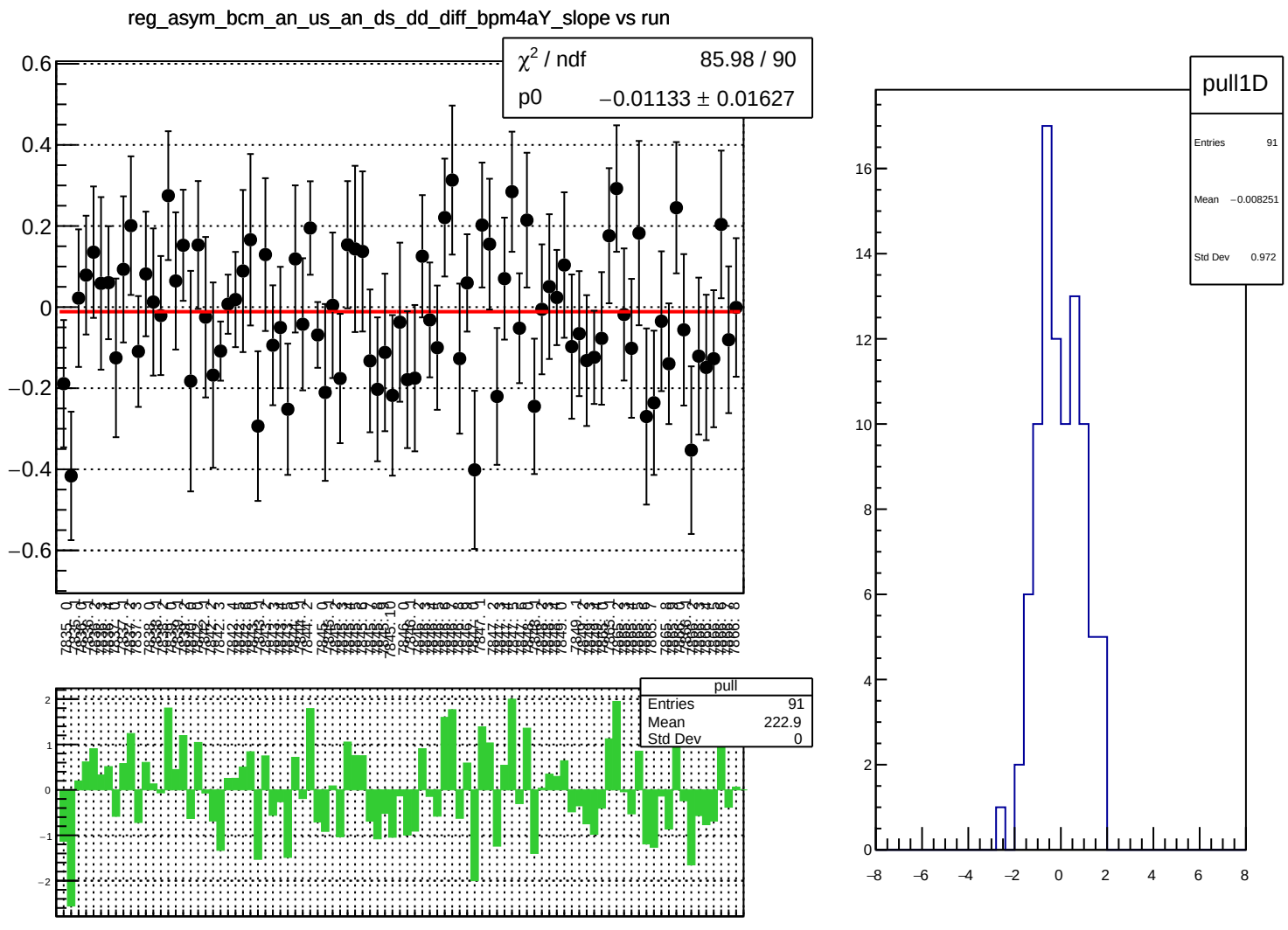

pull1D
Entries 91
Mean 0.01781
Std Dev 1.005

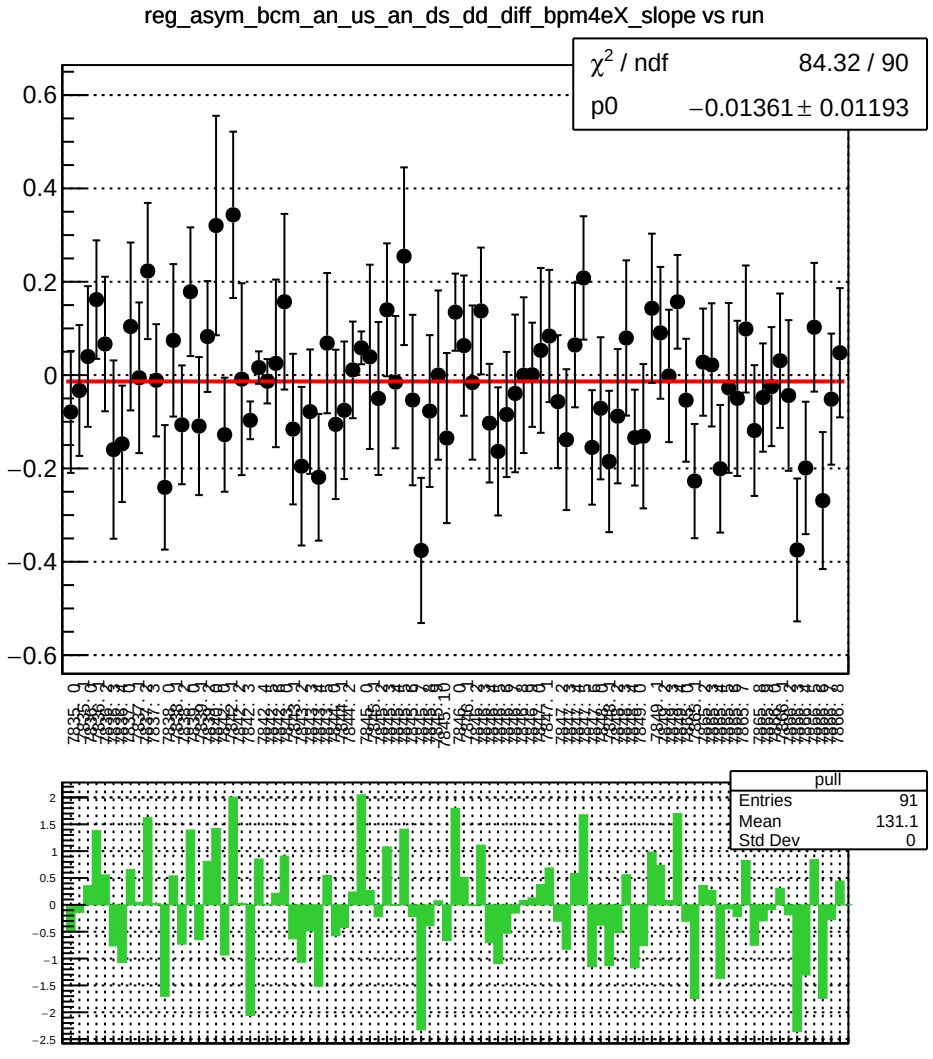

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 222.3 / 90
p0 0.2466 ± 0.006913
pull
Entries 91
Mean −1181
Std Dev 0

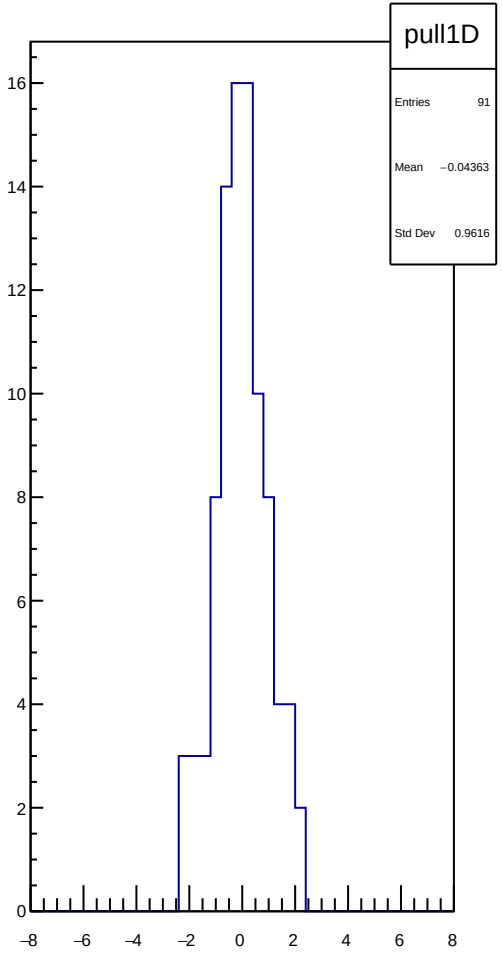

pull1D
Entries 91
Mean 0.02418
Std Dev 1.563

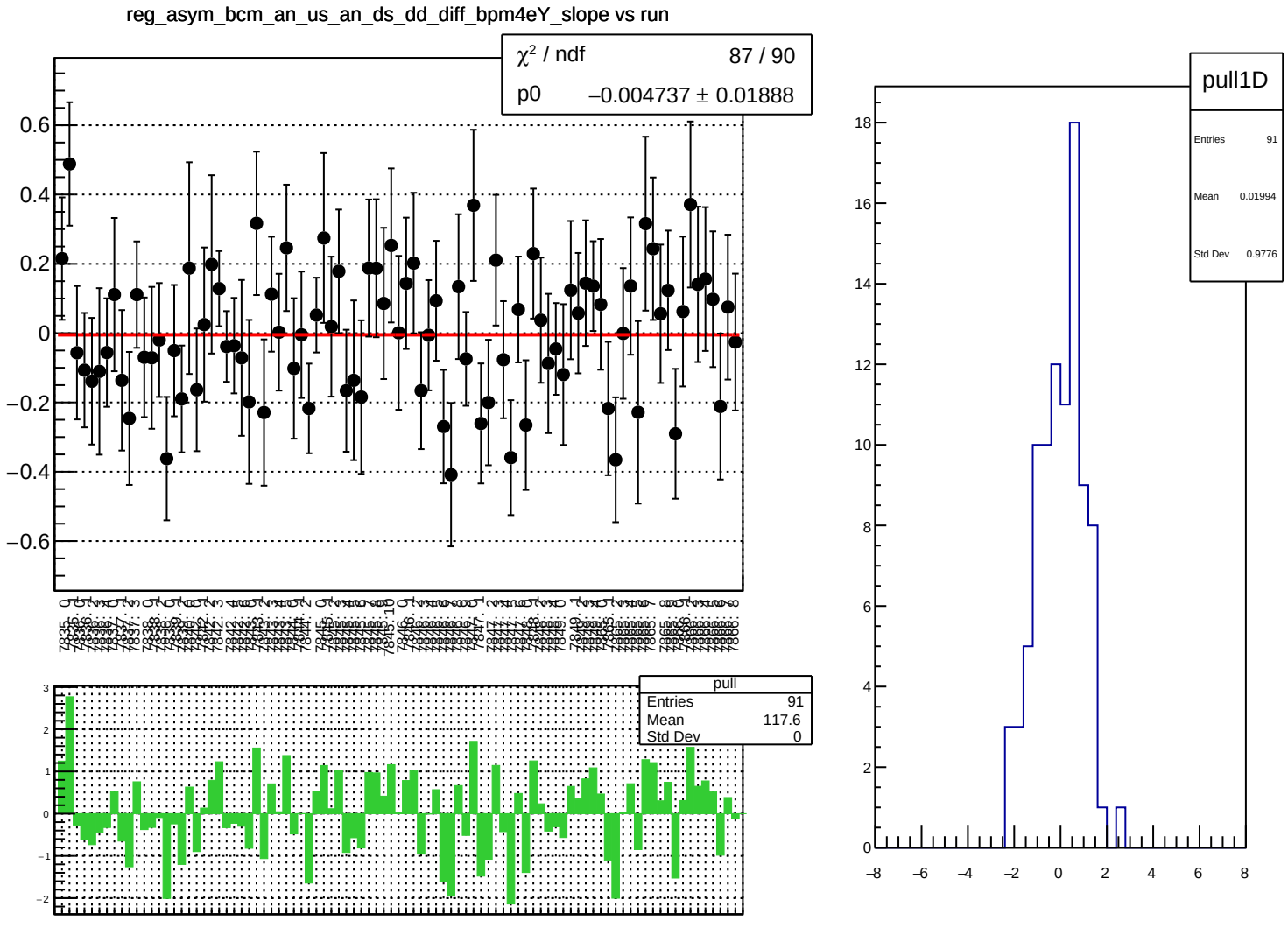

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 83.88 / 90
p0 0.001026 ± 0.0137
pull
Entries 91
Mean 151.4
Std Dev 0

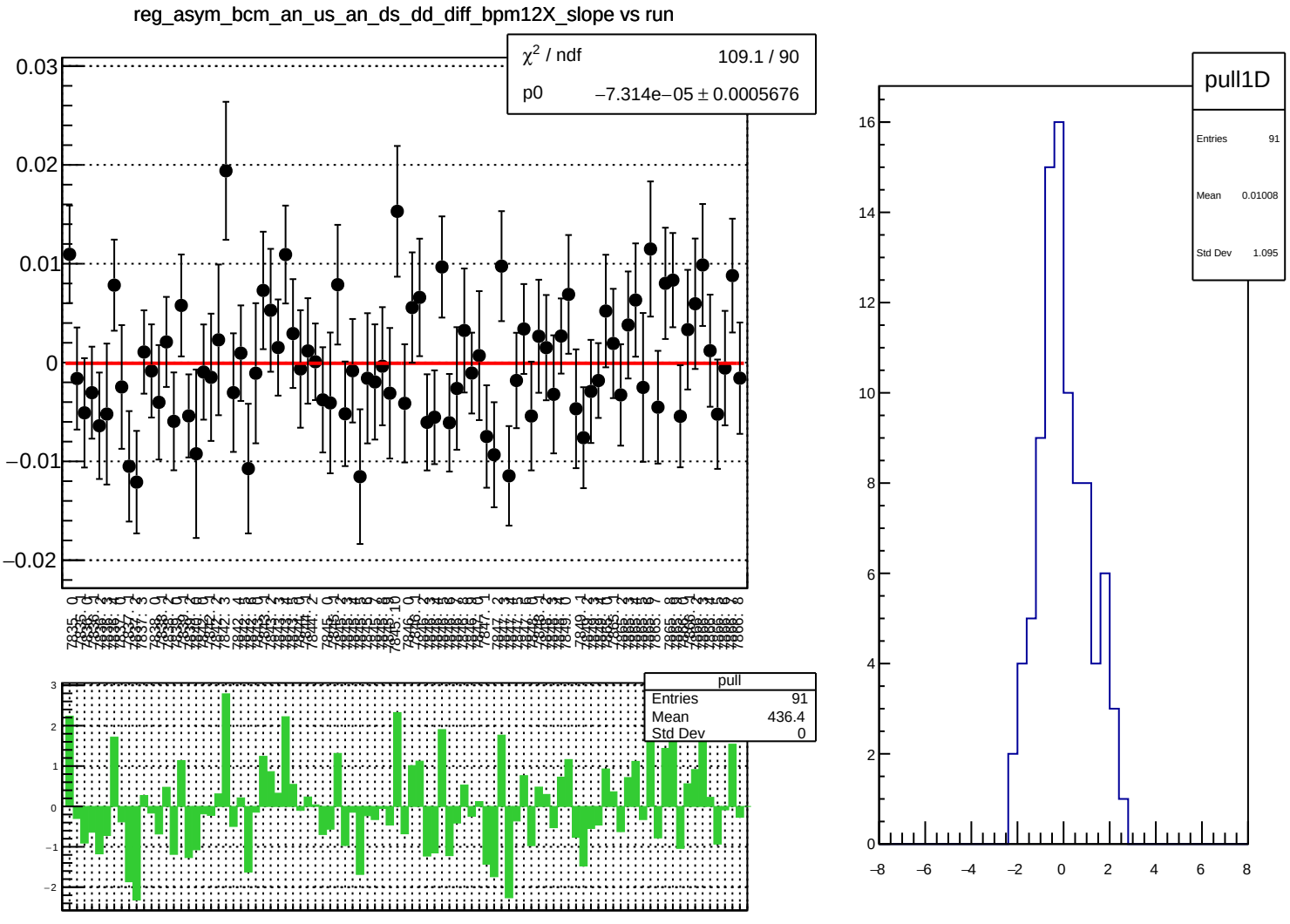

pull1D
Entries 91
Mean 0.0367
Std Dev 0.9594

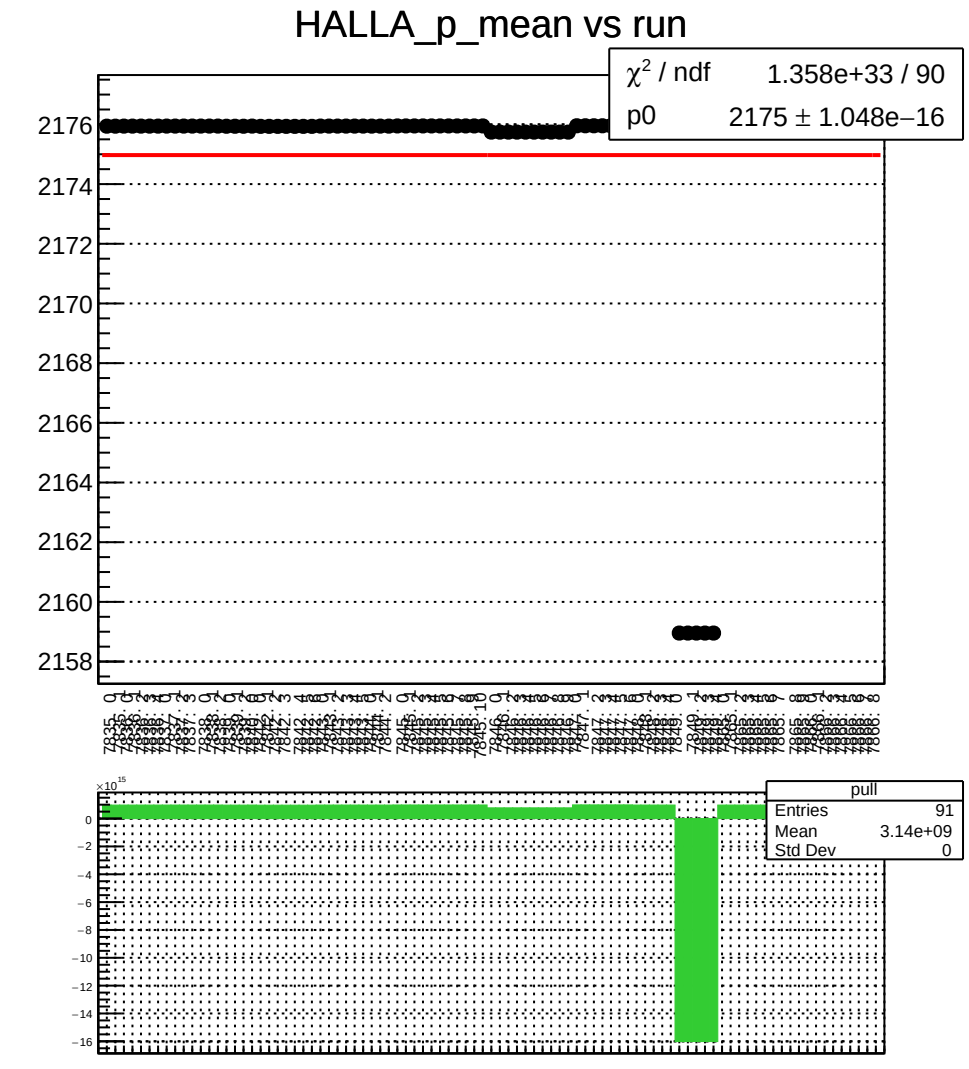

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.98 / 90
p0 −0.01133 ± 0.01627
pull
Entries 91
Mean 222.9
Std Dev 0
pull1D
Entries 91
Mean −0.008251
Std Dev 0.972

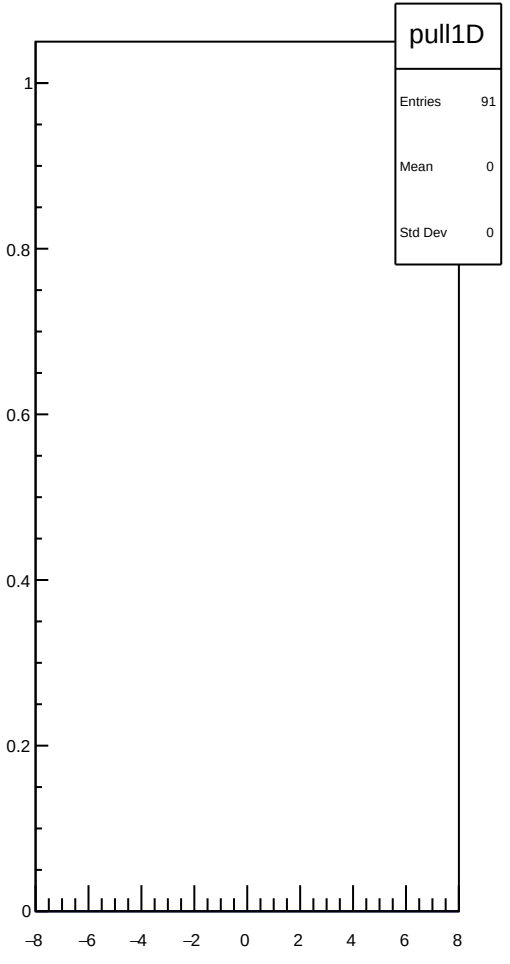

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.32 / 90
p0 −0.01361 ± 0.01193
pull
Entries 91
Mean 131.1
Std Dev 0

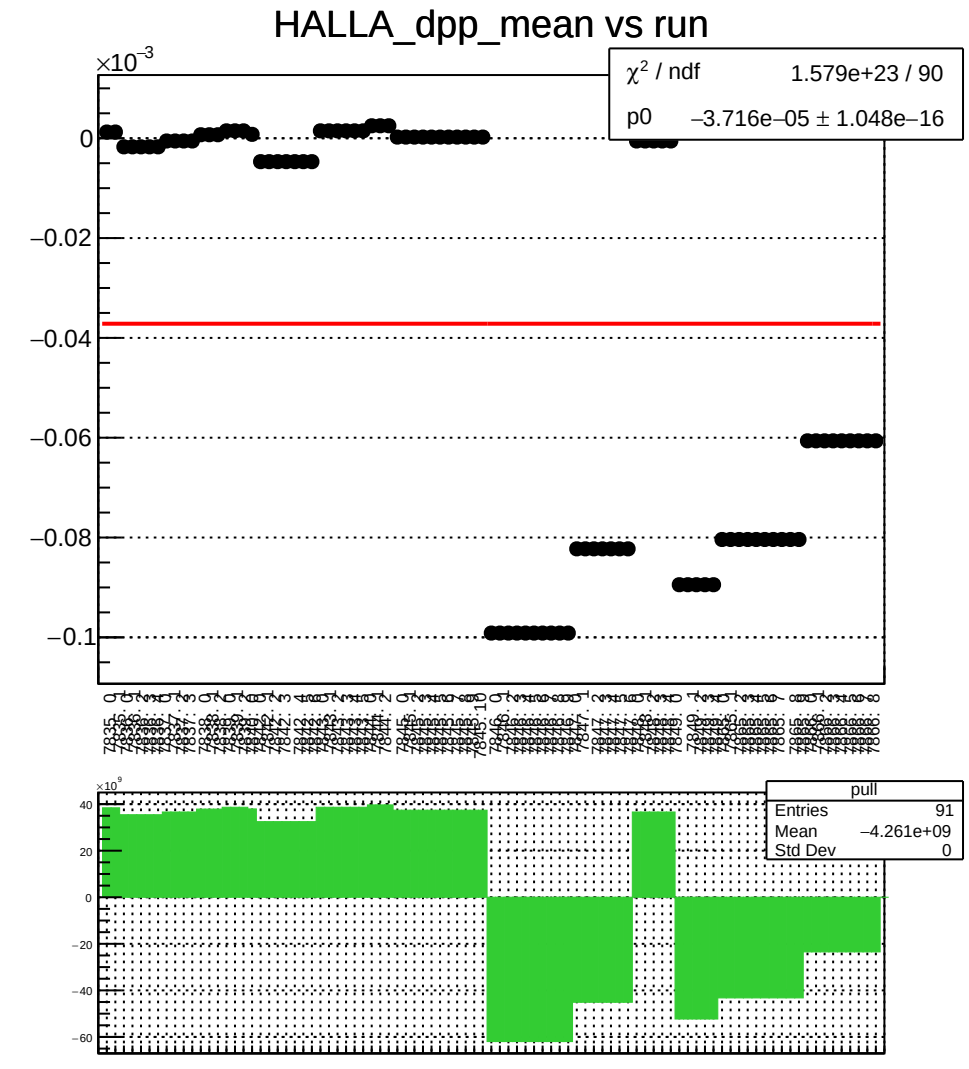

pull1D
Entries 91
Mean −0.04363
Std Dev 0.9616

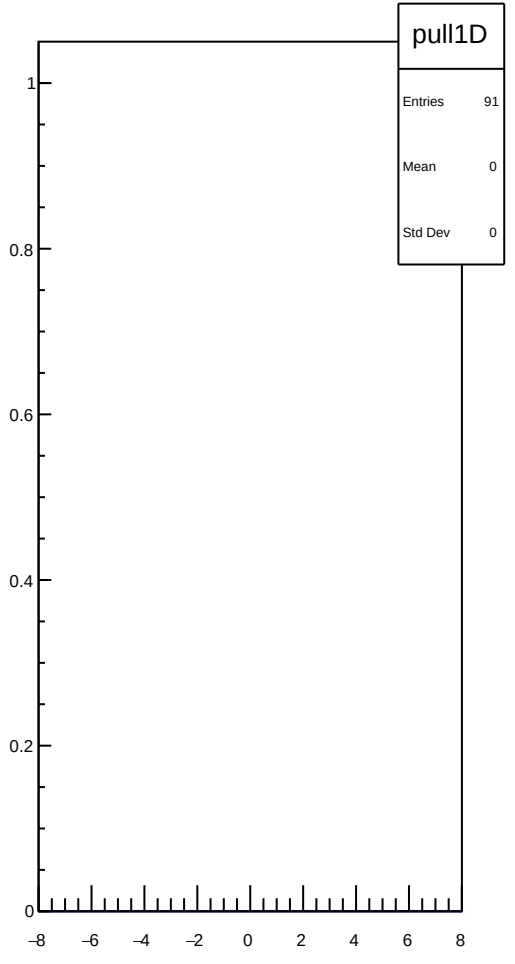

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 87 / 90
p0 −0.004737 ± 0.01888
pull
Entries 91
Mean 117.6
Std Dev 0
pull1D
Entries 91
Mean 0.01994
Std Dev 0.9776

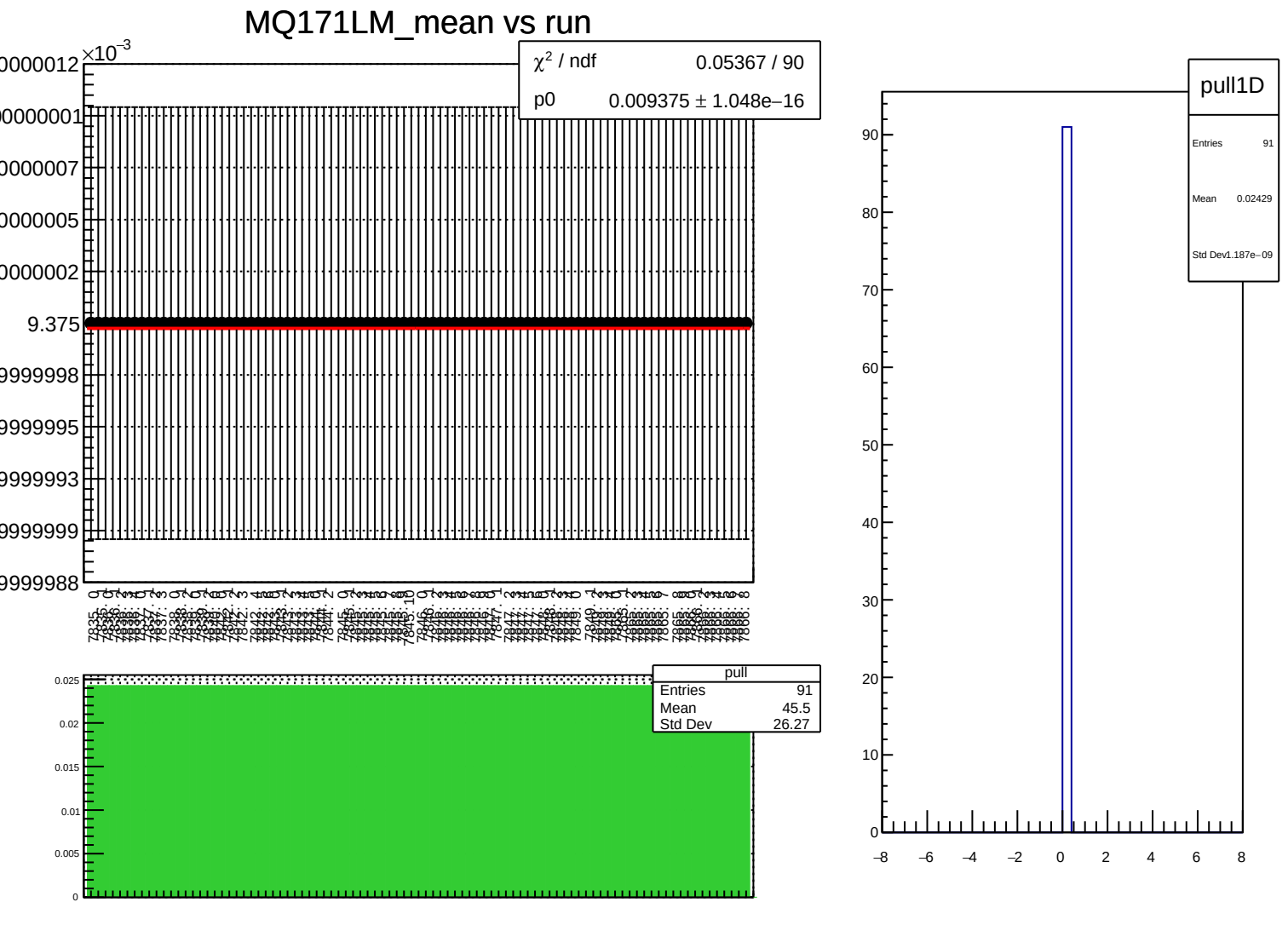

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 109.1 / 90
p0 −7.314e−05 ± 0.0005676
pull
Entries 91
Mean 436.4
Std Dev 0
pull1D
Entries 91
Mean 0.01008
Std Dev 1.095

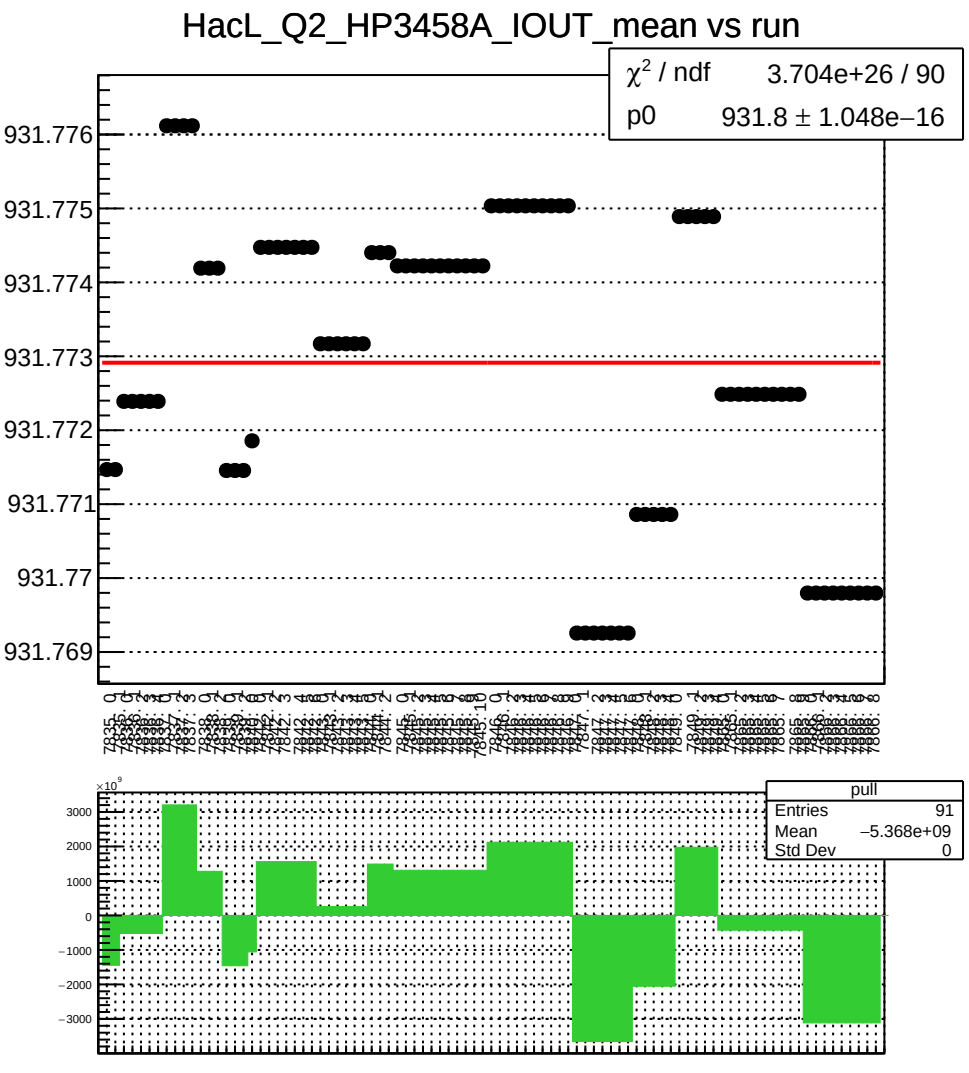

HALLA_p_mean vs run
χ² / ndf 1.358e+33 / 90
p0 2175 ± 1.048e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 91
Mean 3.14e+09
Std Dev 0
×10¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16

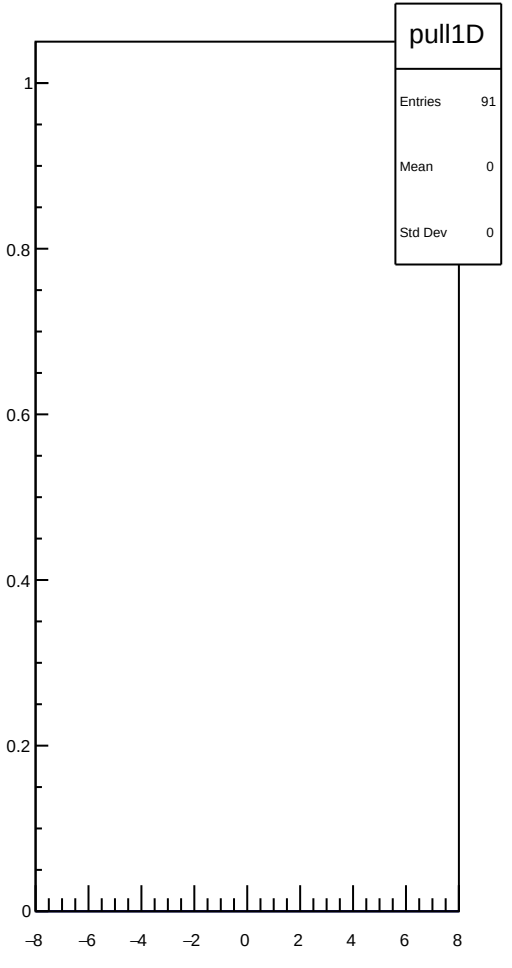

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

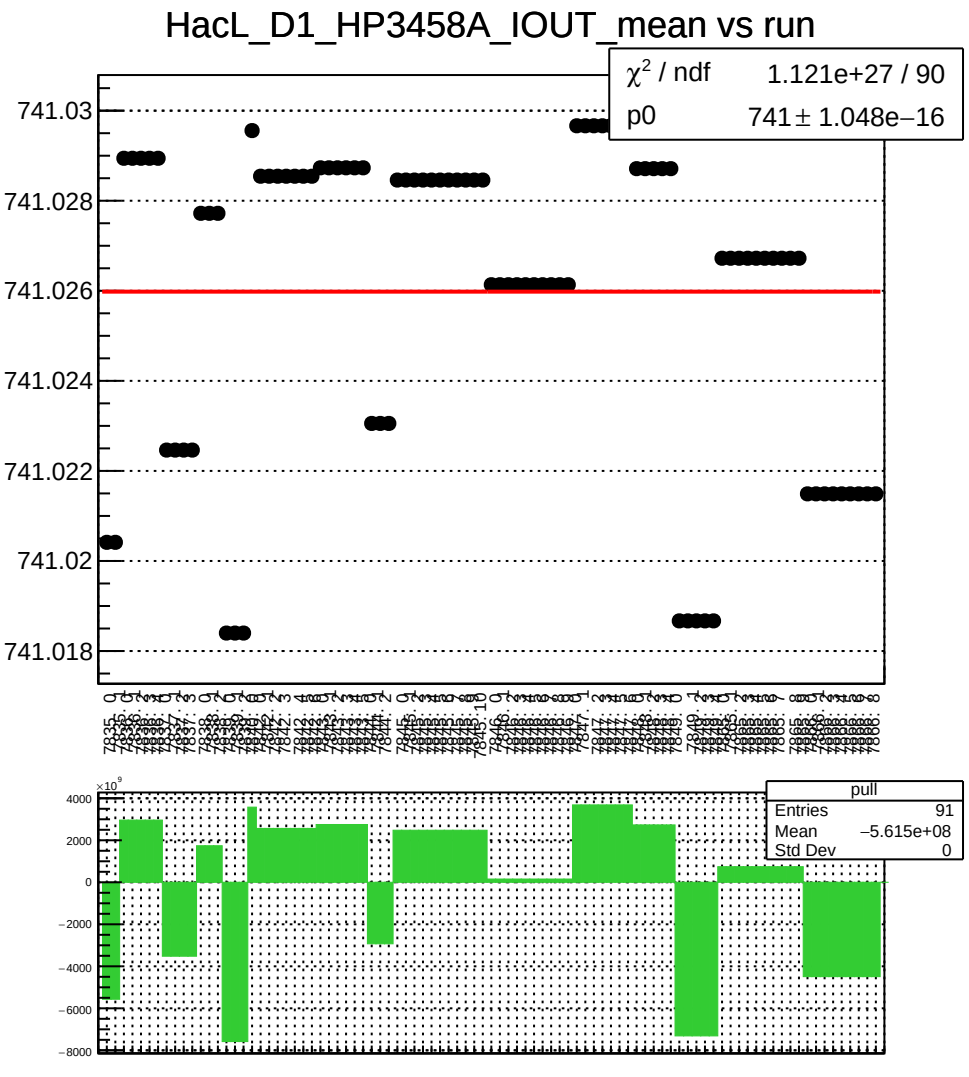

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.579e+23 / 90
p0 −3.716e−05 ± 1.048e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
40
20
0
−20
−40
−60
pull
Entries 91
Mean −4.261e+09
Std Dev 0

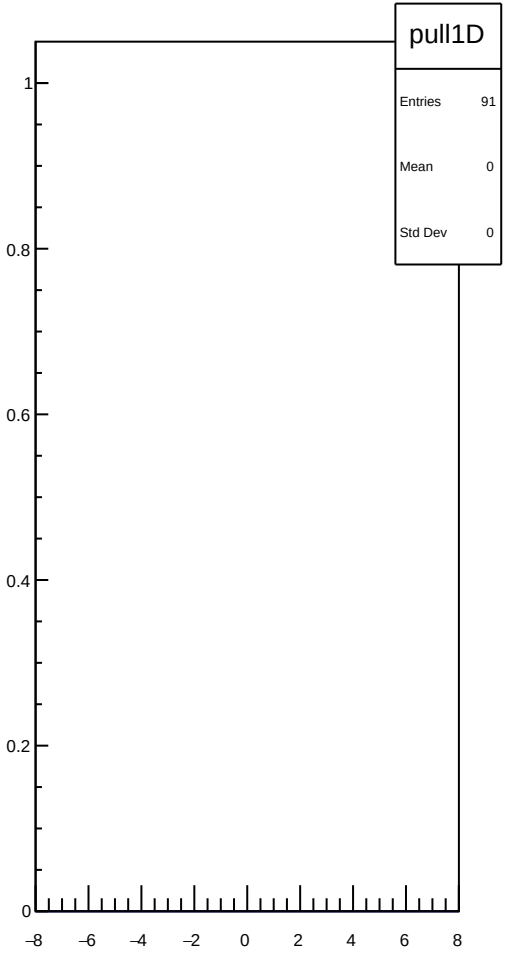

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

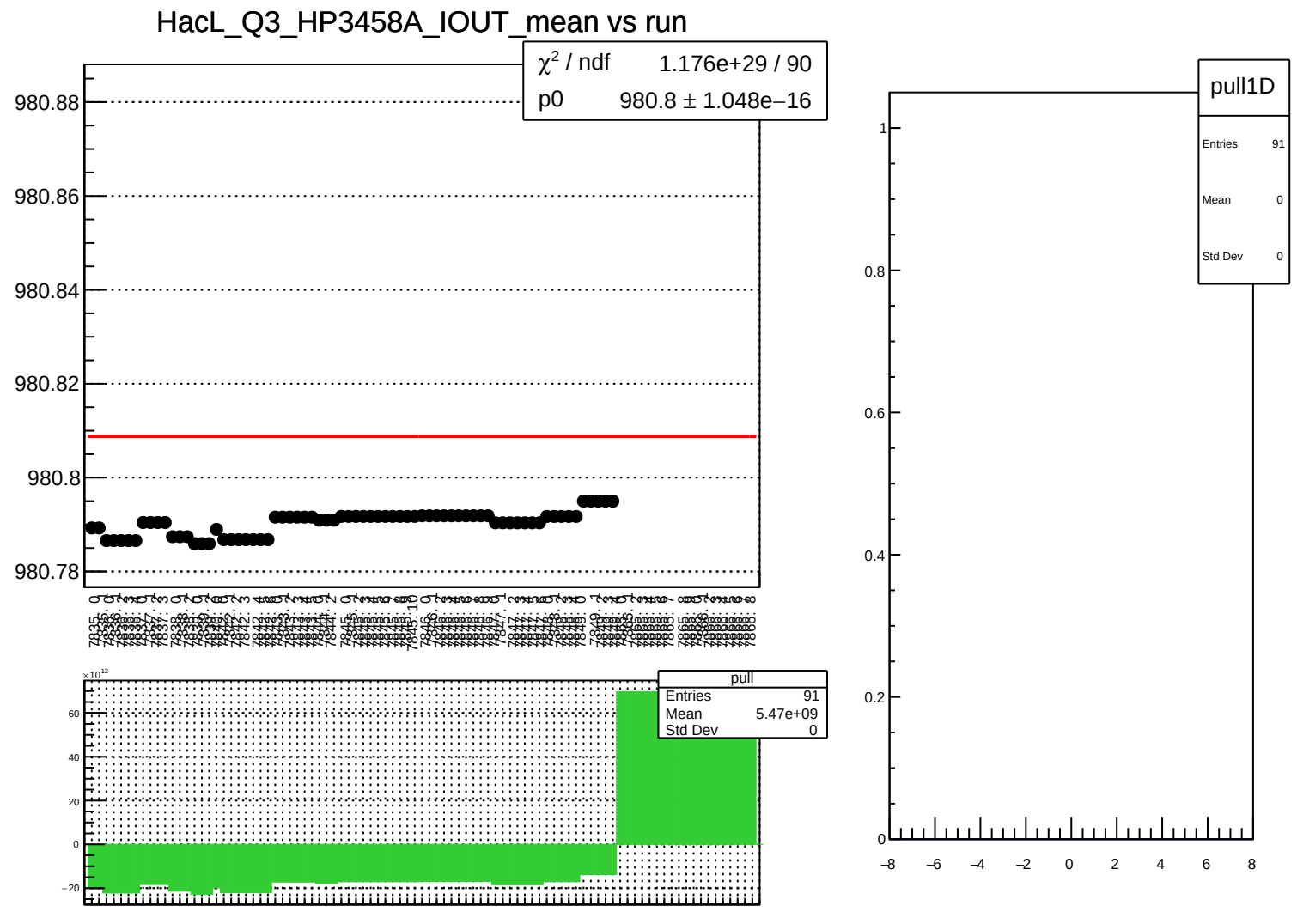

MQ171LM_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

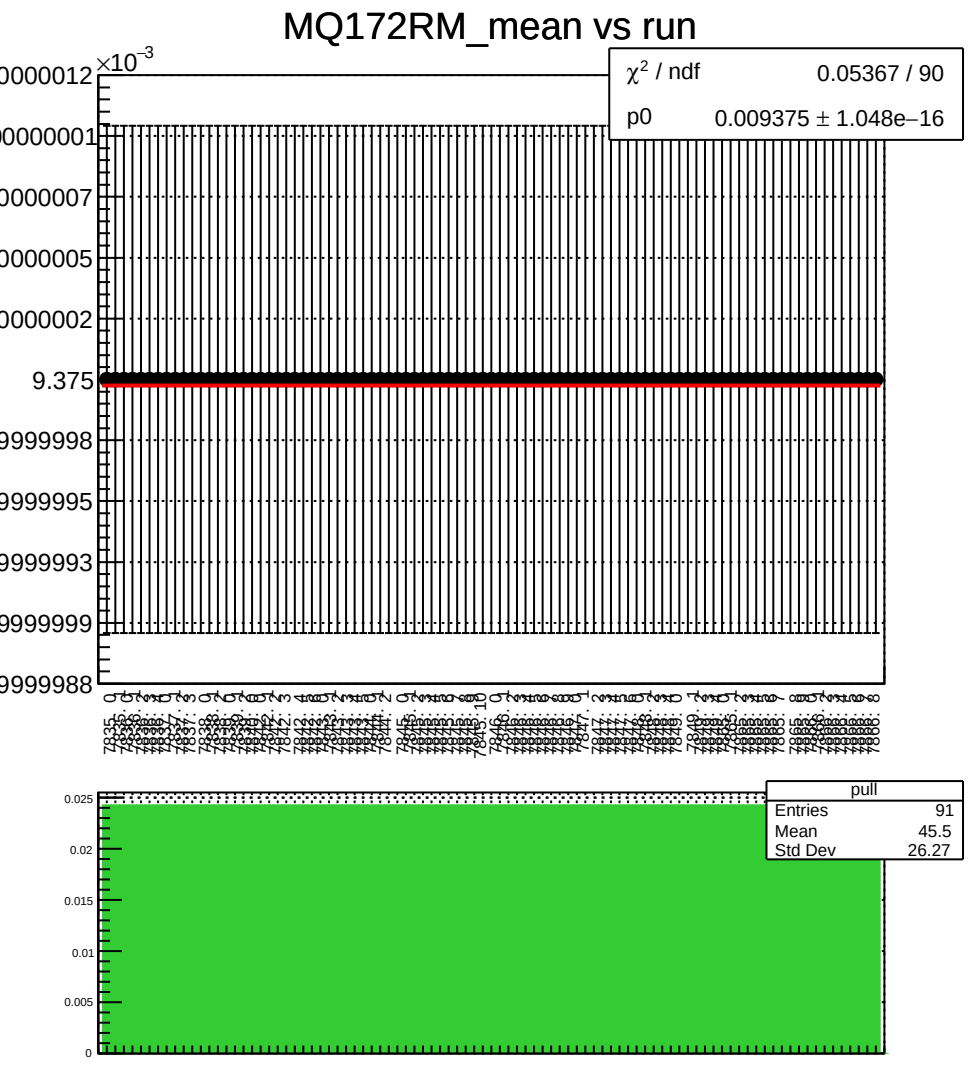

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.704e+26 / 90
p0 931.8 ± 1.048e−16
931.776
931.775
931.774
931.773
931.772
931.771
931.77
931.769
pull
Entries 91
Mean −5.368e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

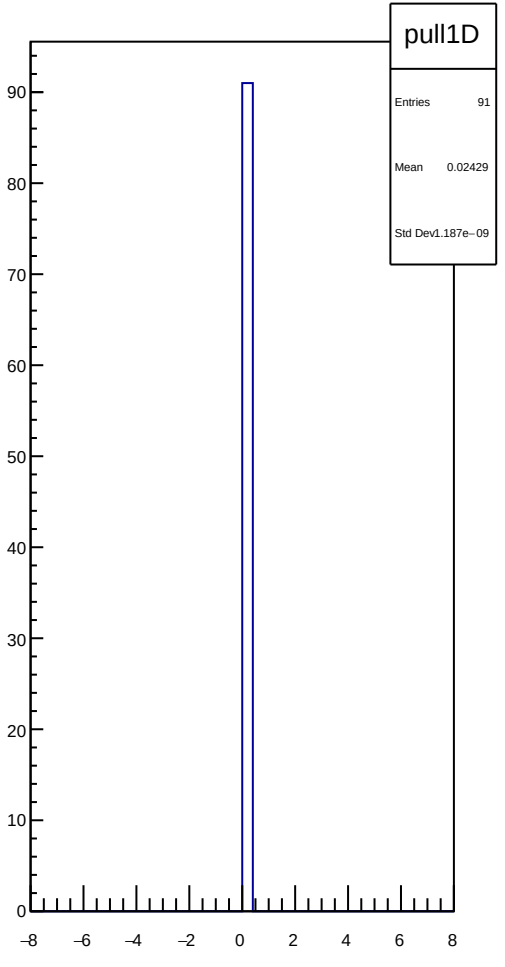

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

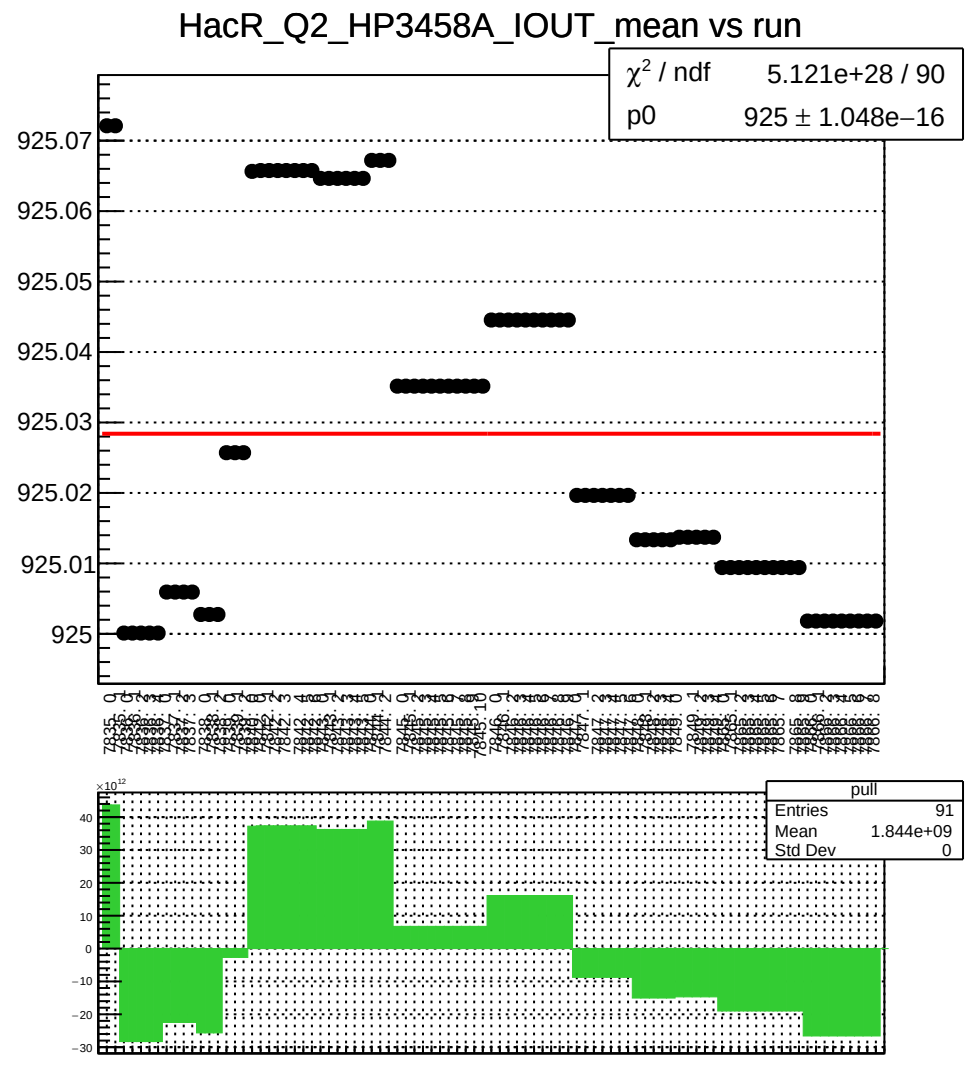

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.121e+27 / 90
p0 741 ± 1.048e−16
741.03
741.028
741.026
741.024
741.022
741.02
741.018
pull
Entries 91
Mean −5.615e+08
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000
−8000

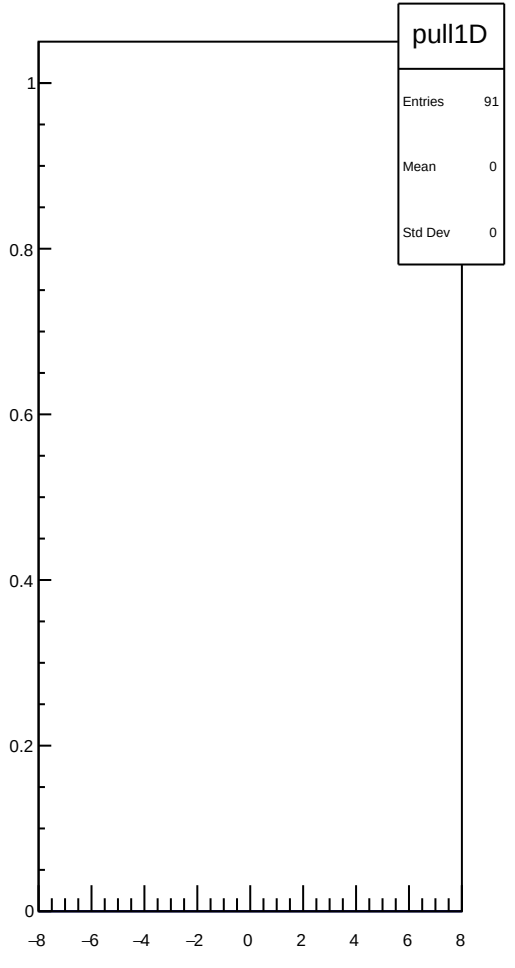

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

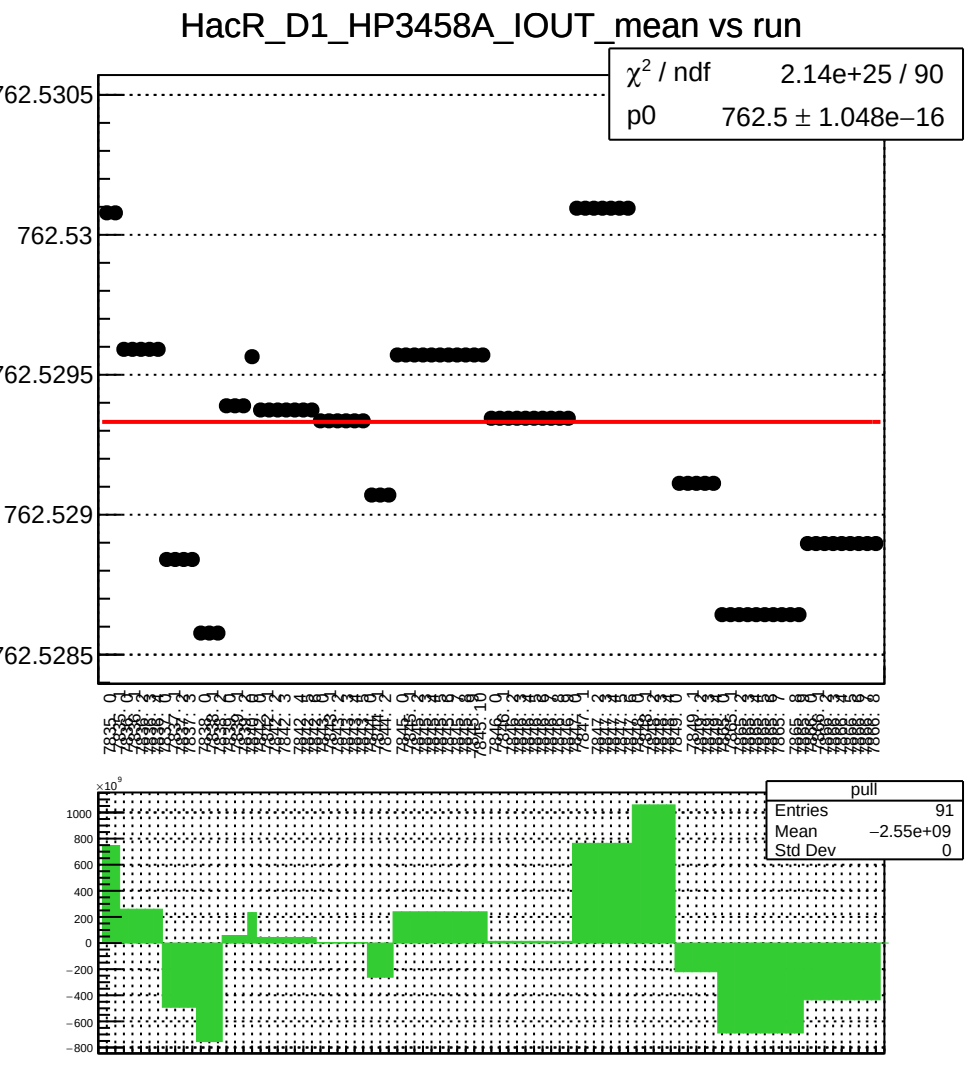

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.176e+29 / 90
p0 980.8 ± 1.048e−16
980.88
980.86
980.84
980.82
980.8
980.78
pull
Entries 91
Mean 5.47e+09
Std Dev 0
×10¹²
60
40
20
0
−20
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

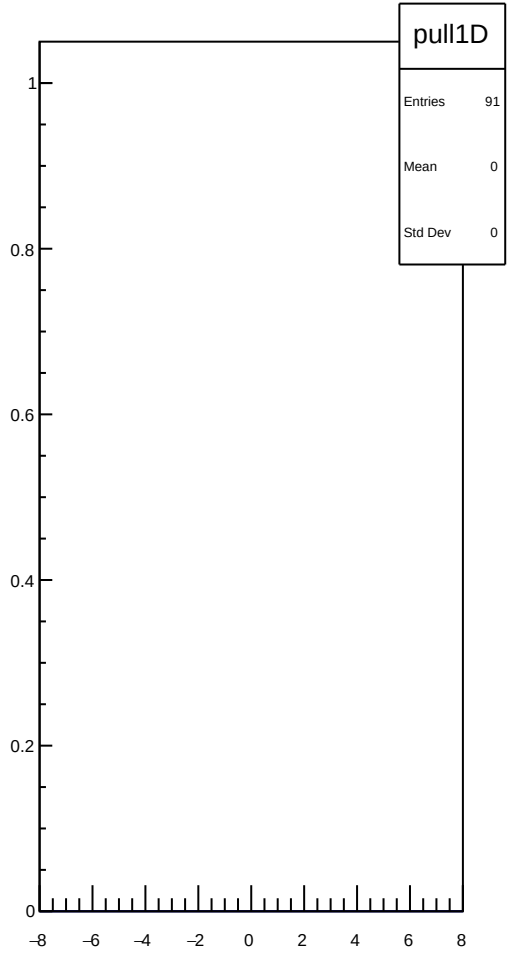

MQ172RM_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

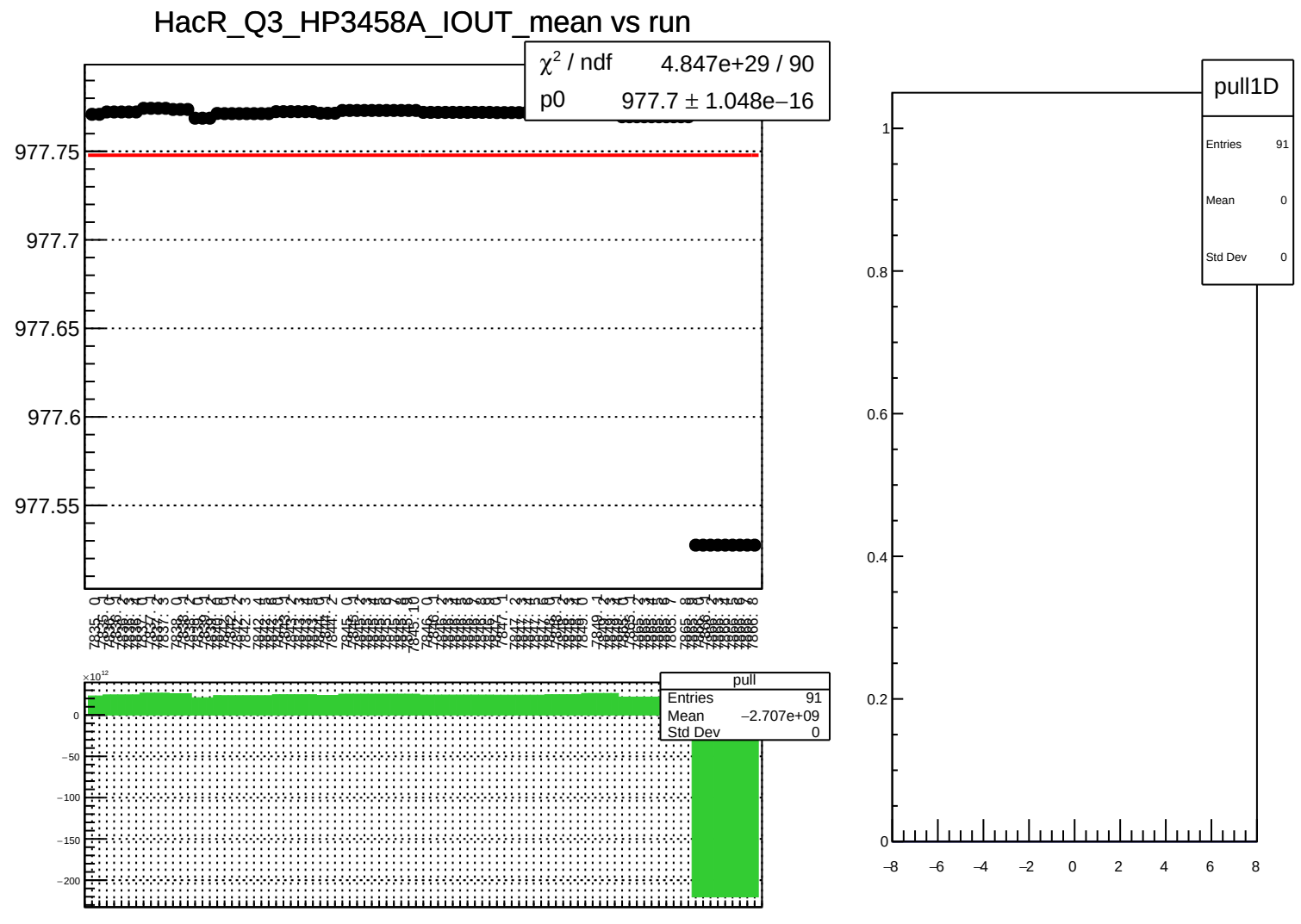

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

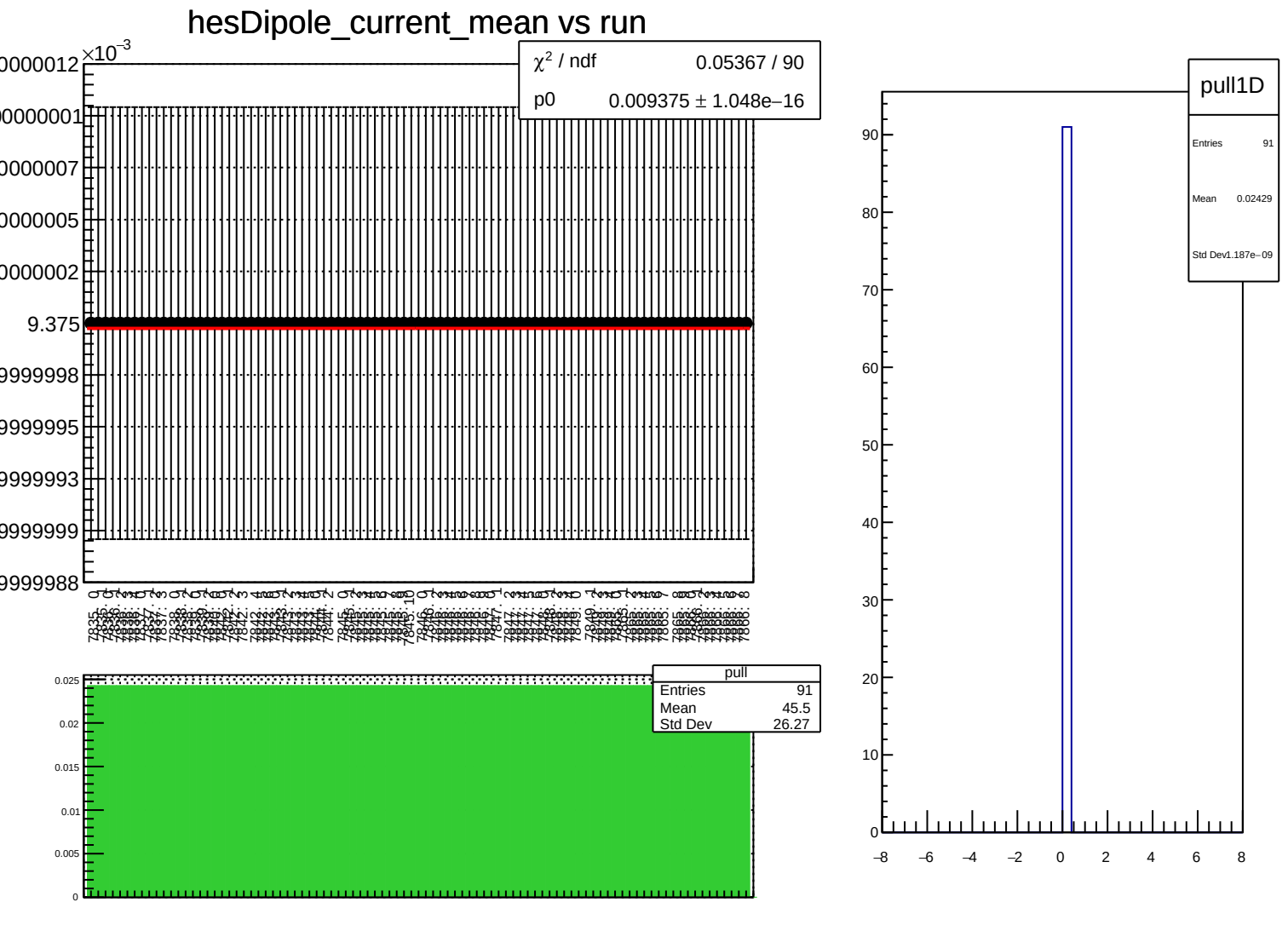

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.121e+28 / 90
p0 925 ± 1.048e−16
925.07
925.06
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 91
Mean 1.844e+09
Std Dev 0
×10¹²
40
30
20
10
0
−10
−20
−30

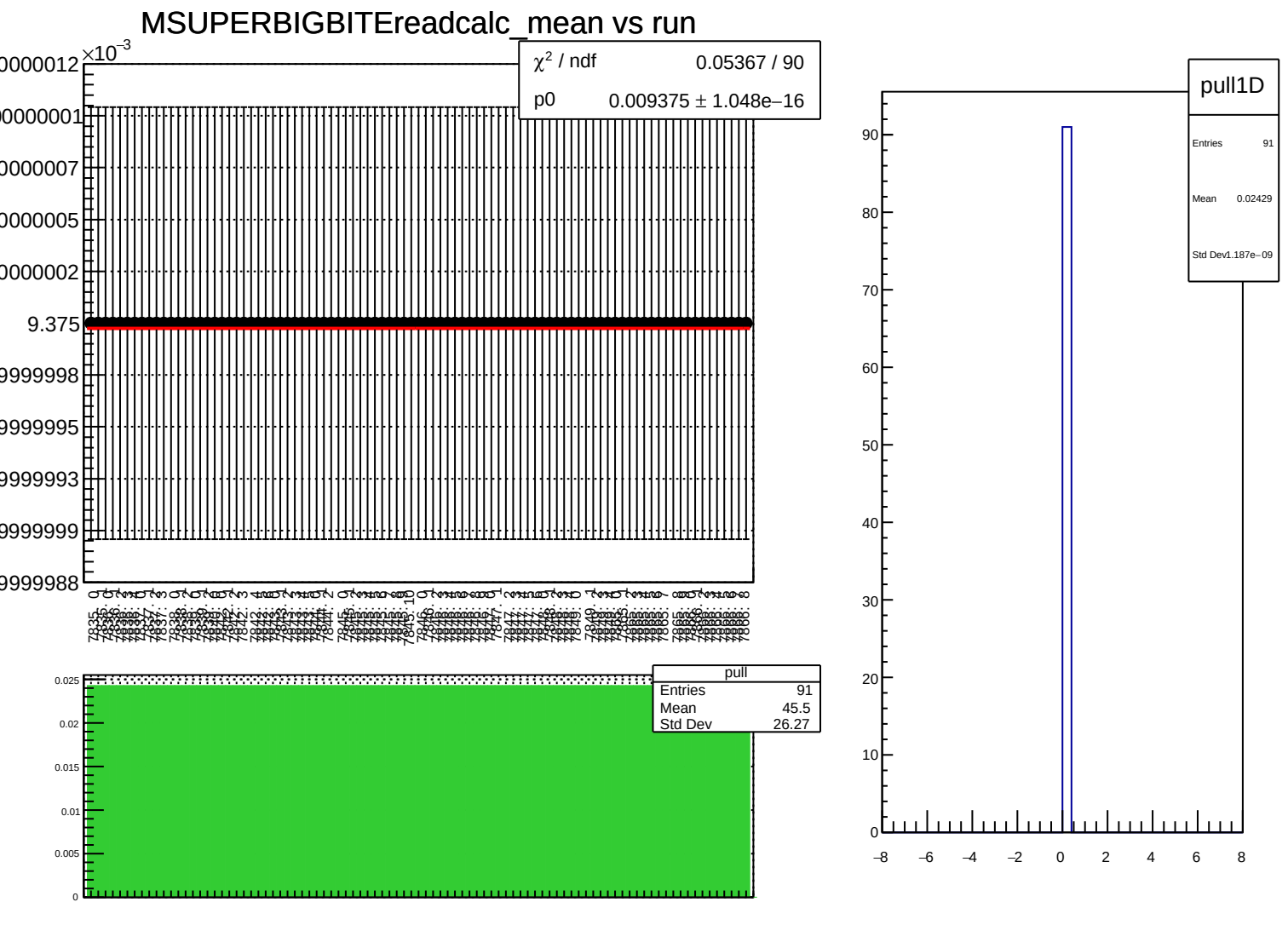

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

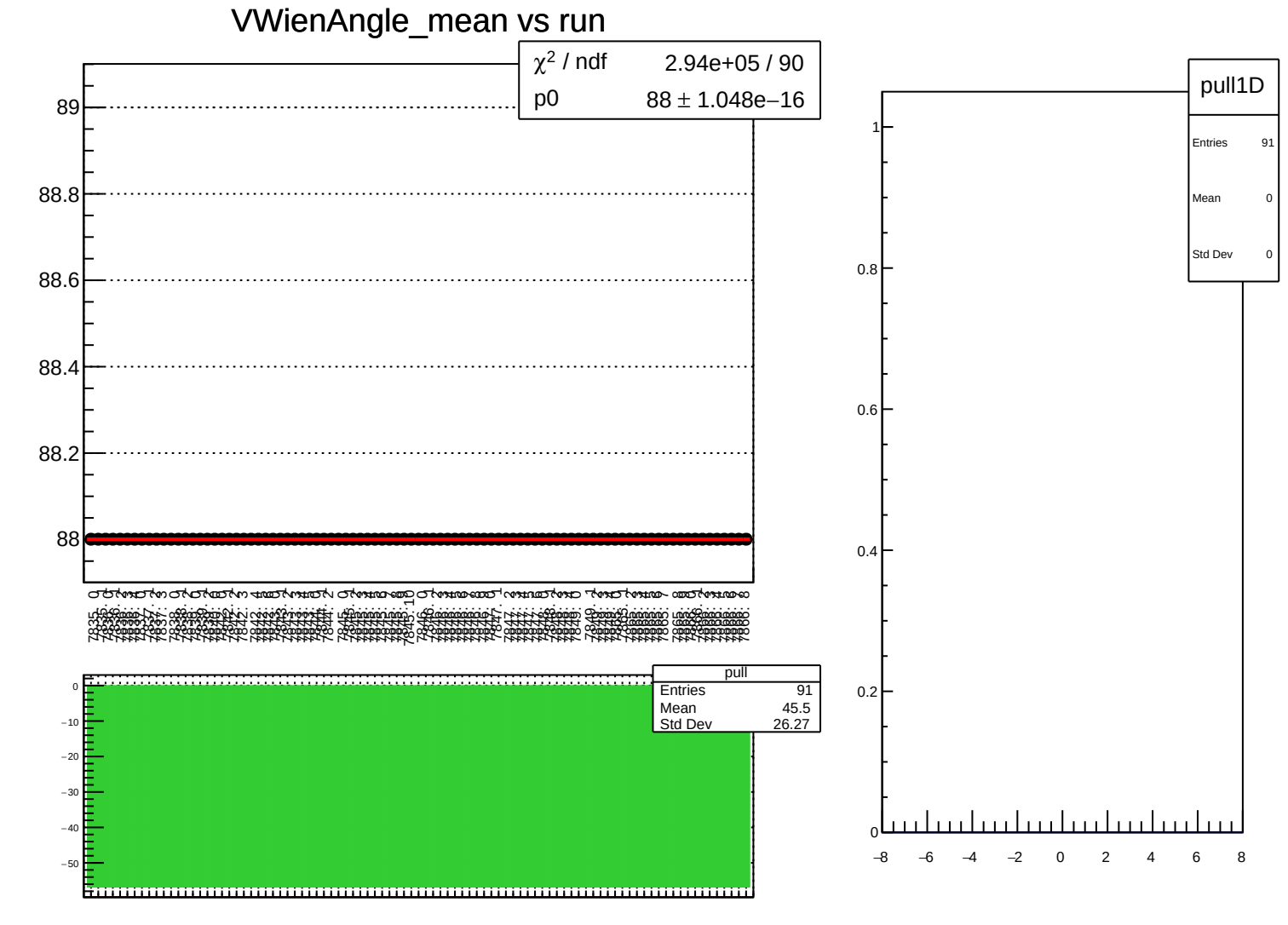

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.14e+25 / 90
p0 762.5 ± 1.048e−16
762.5305
762.53
762.5295
762.529
762.5285
×10⁹
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −2.55e+09
Std Dev 0

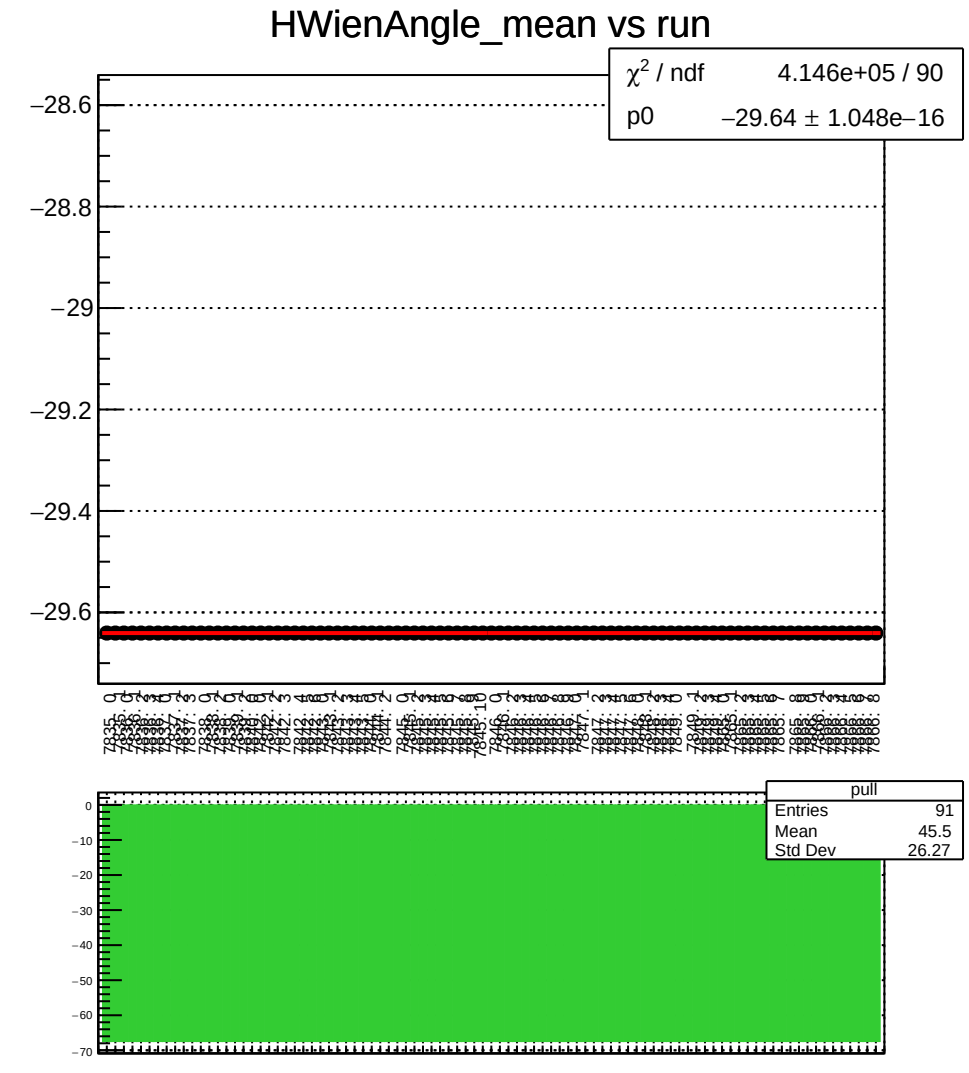

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

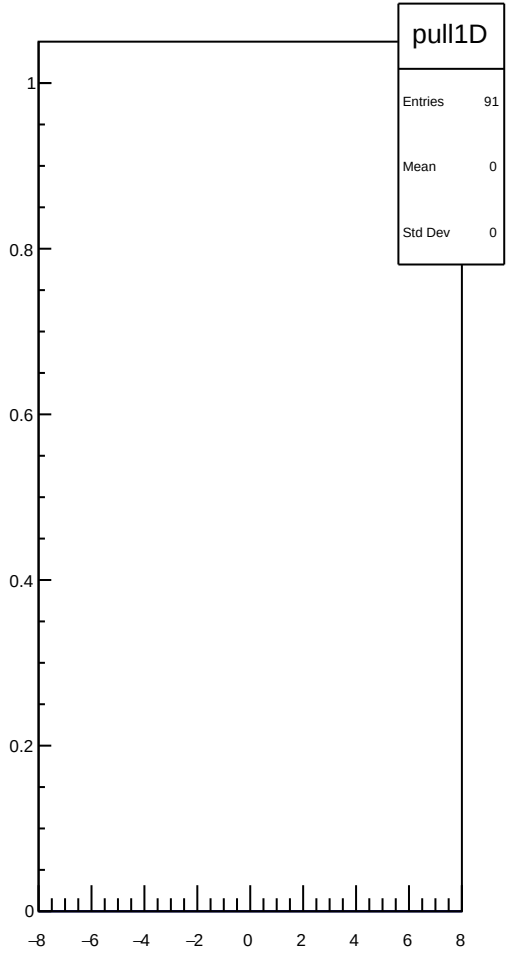

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.847e+29 / 90
p0 977.7 ± 1.048e−16
977.75
977.7
977.65
977.6
977.55
×10¹²
0
−50
−100
−150
−200
pull
Entries 91
Mean −2.707e+09
Std Dev 0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

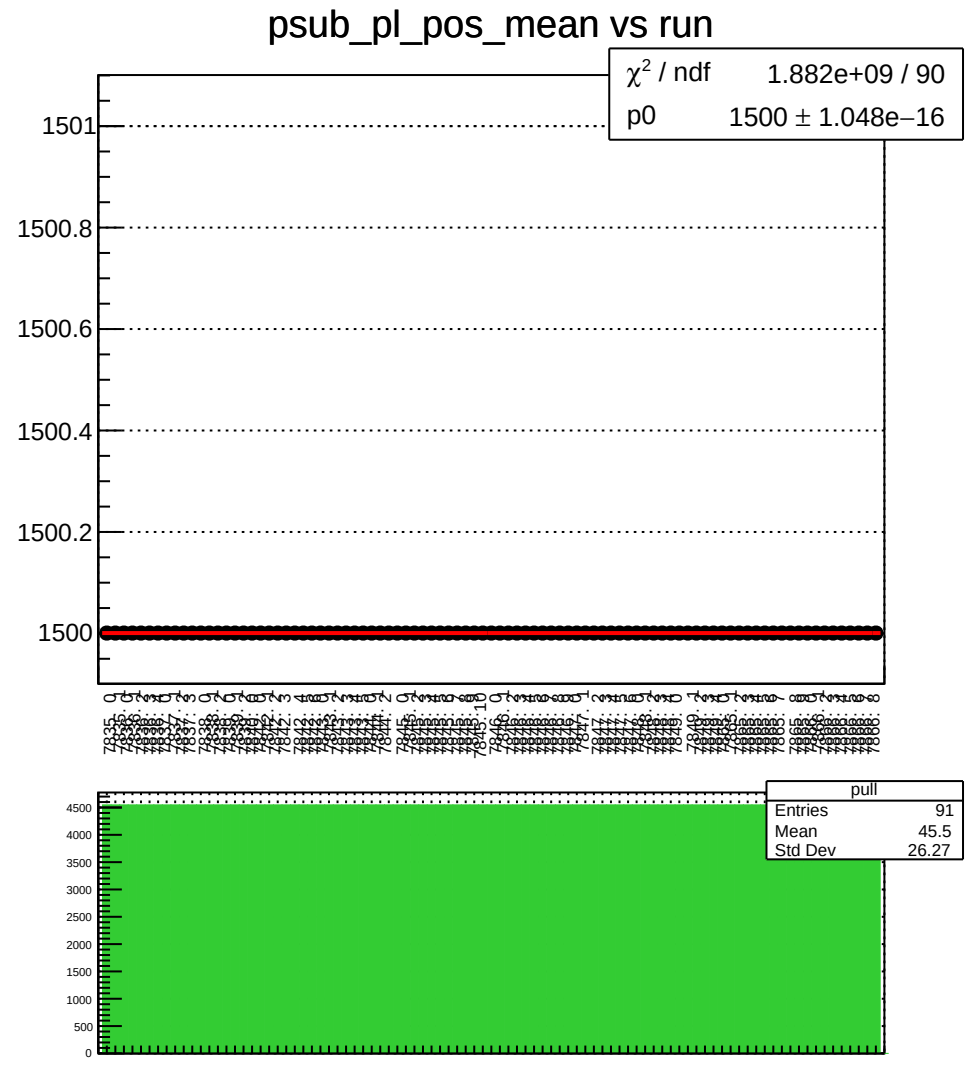

hesDipole_current_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

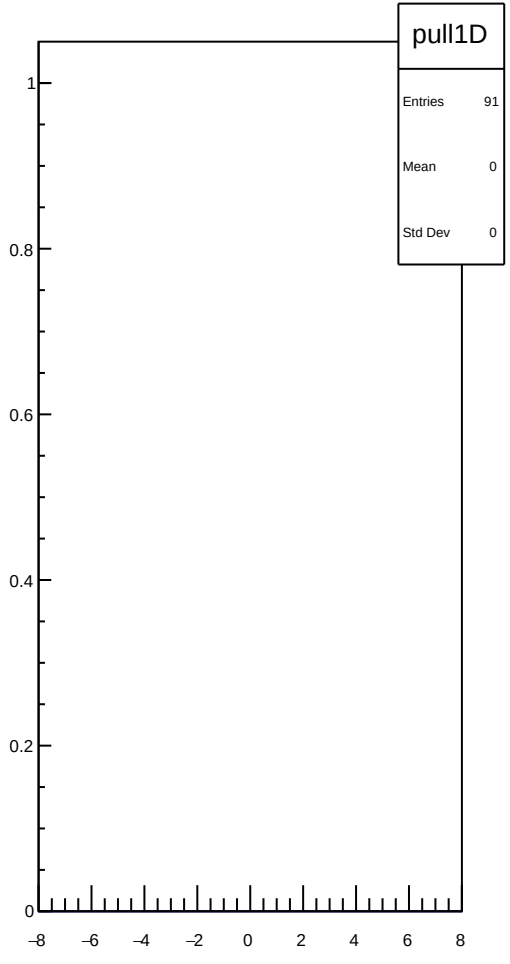

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

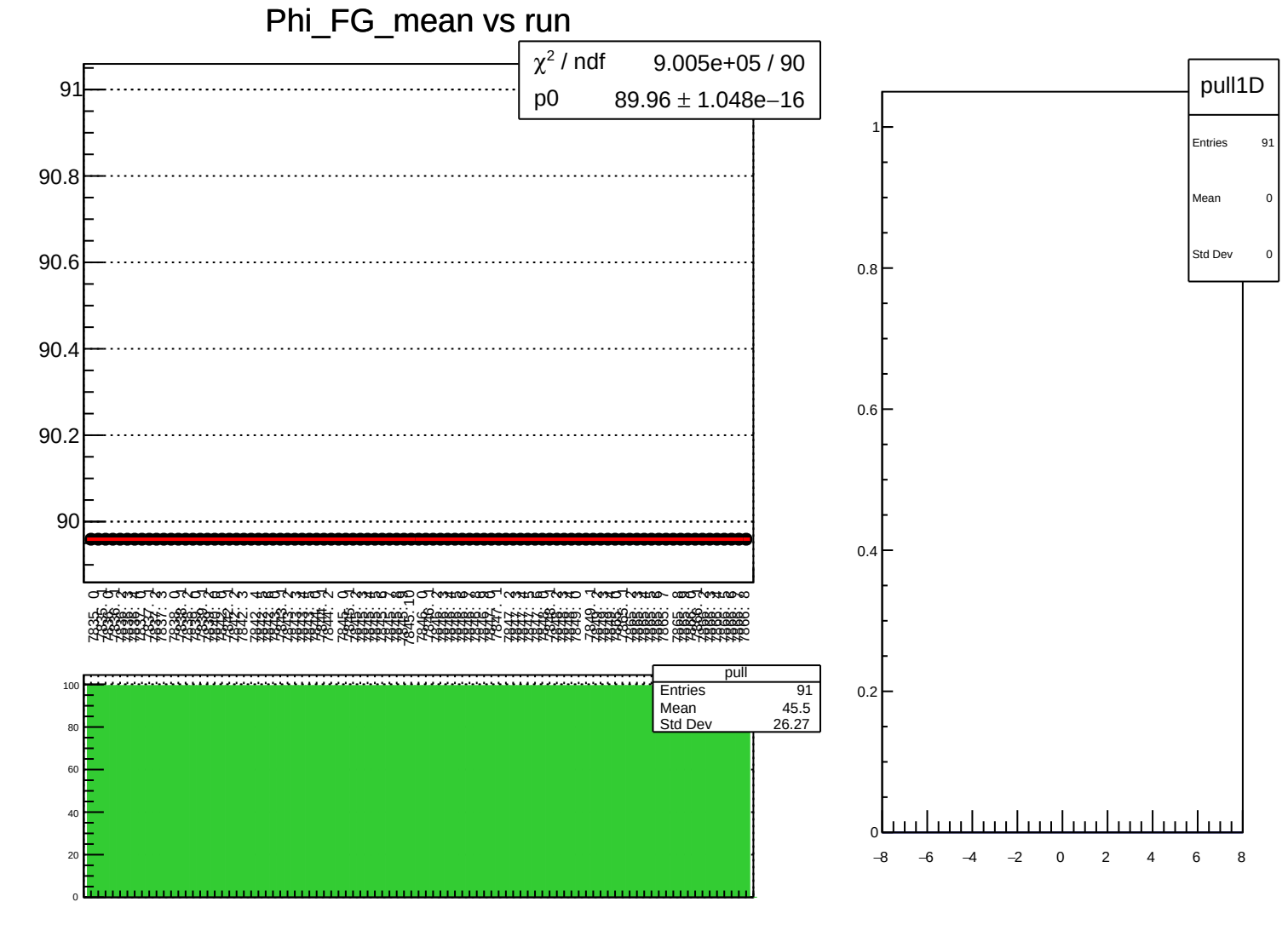

VWienAngle_mean vs run
χ² / ndf 2.94e+05 / 90
p0 88 ± 1.048e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

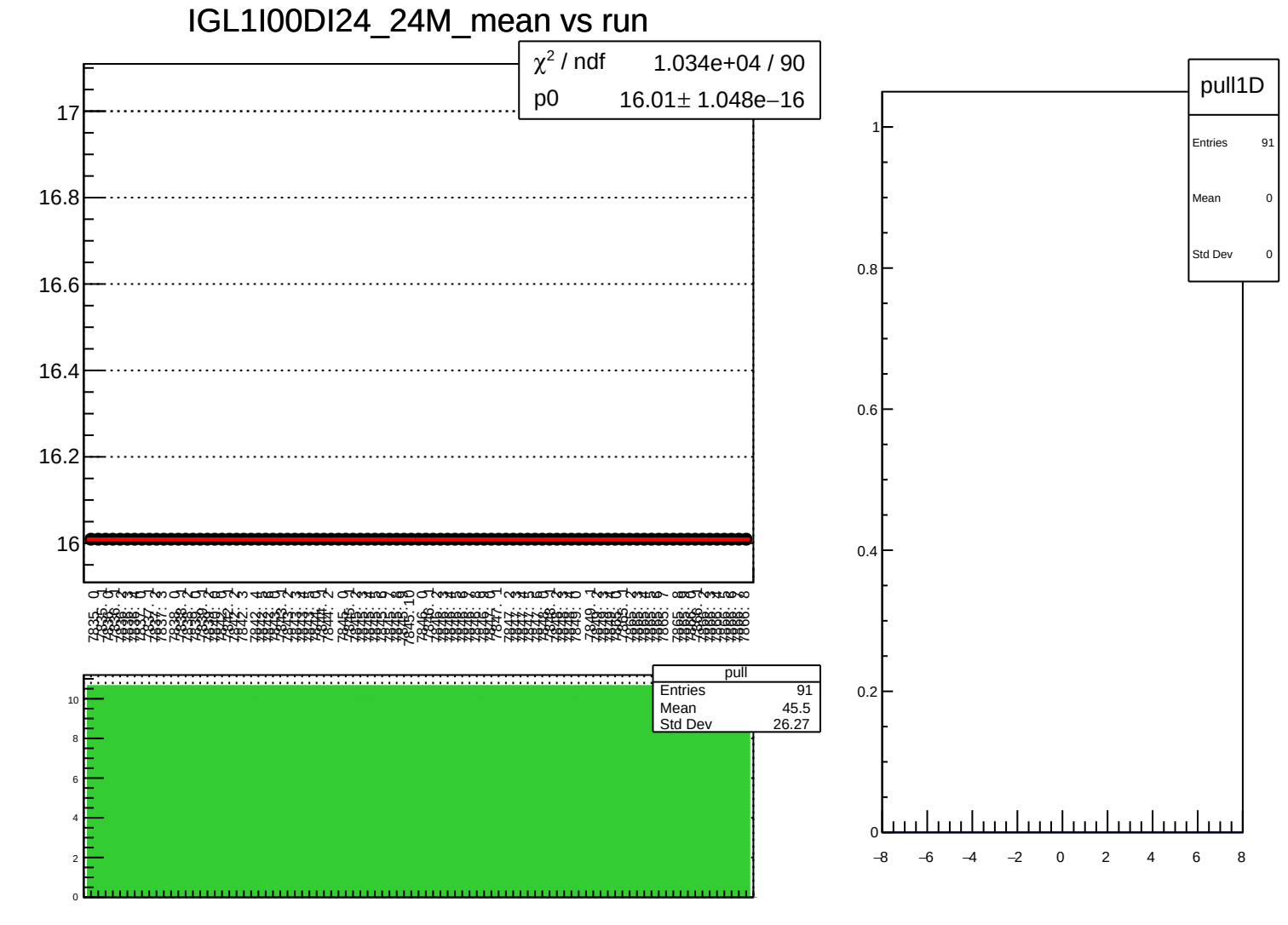

HWienAngle_mean vs run
χ² / ndf 4.146e+05 / 90
p0 −29.64 ± 1.048e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
−60
−70

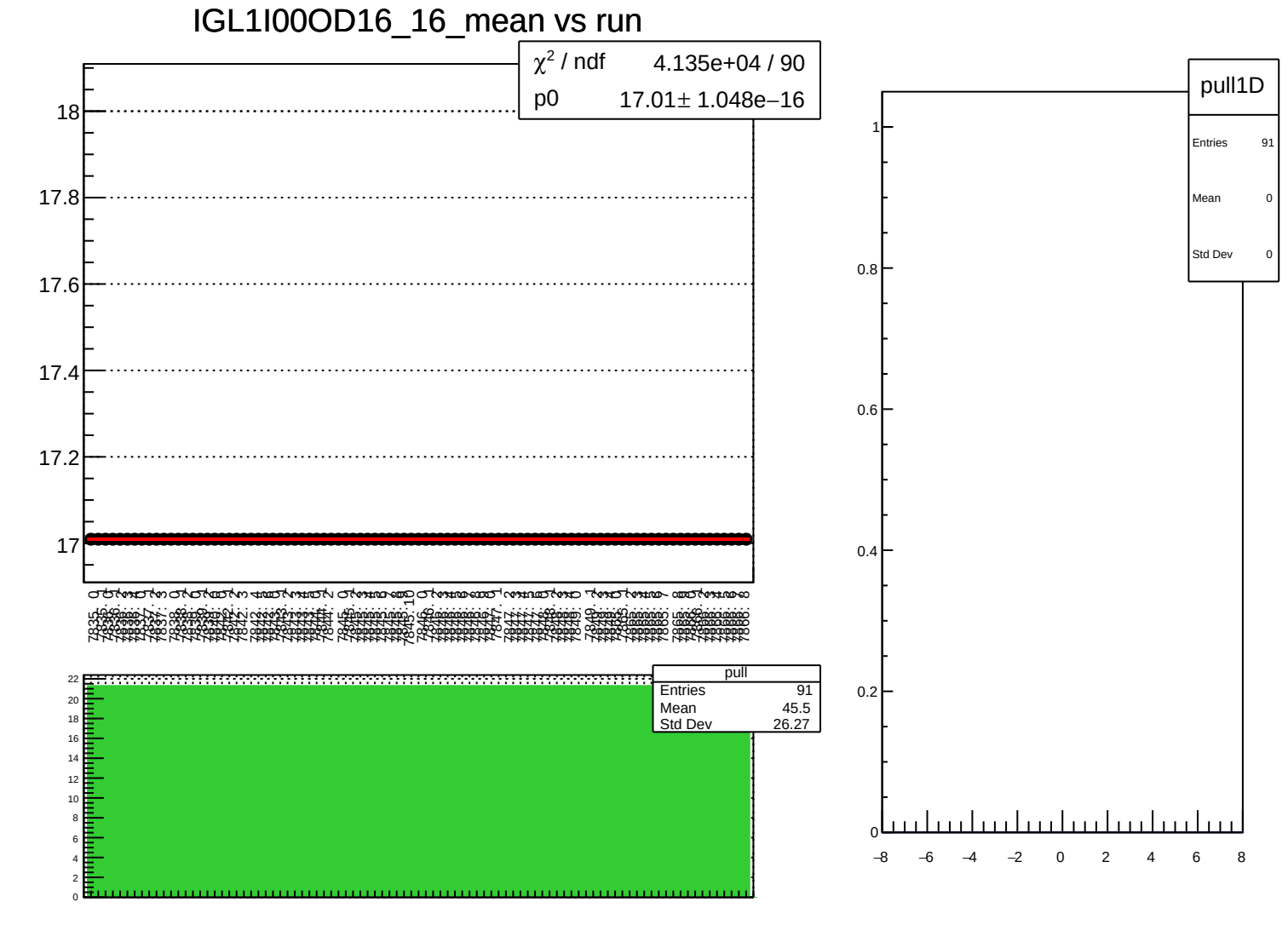

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

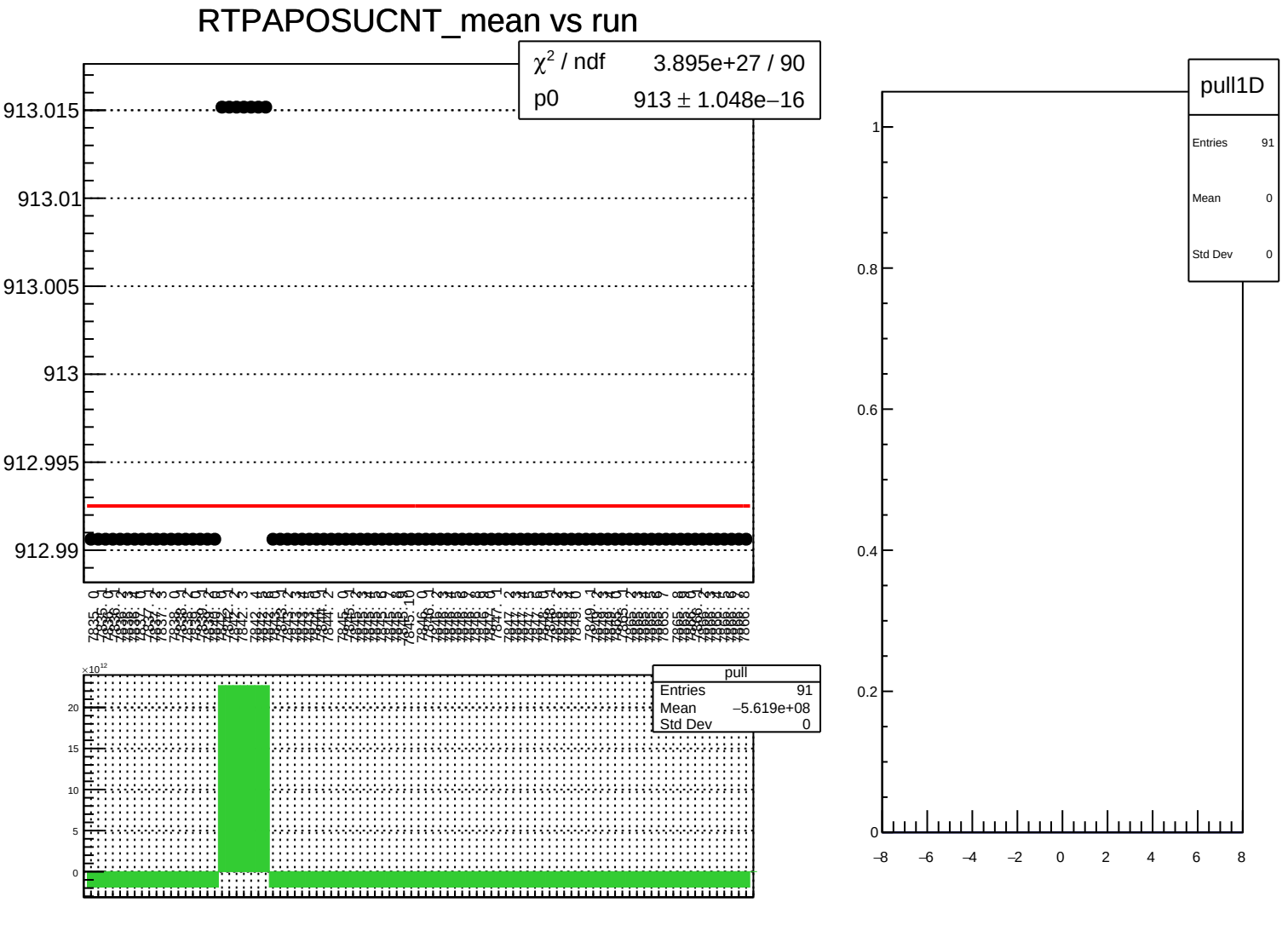

psub_pl_pos_mean vs run
χ² / ndf 1.882e+09 / 90
p0 1500 ± 1.048e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 91
Mean 45.5
Std Dev 26.27
4500
4000
3500
3000
2500
2000
1500
1000
500
0

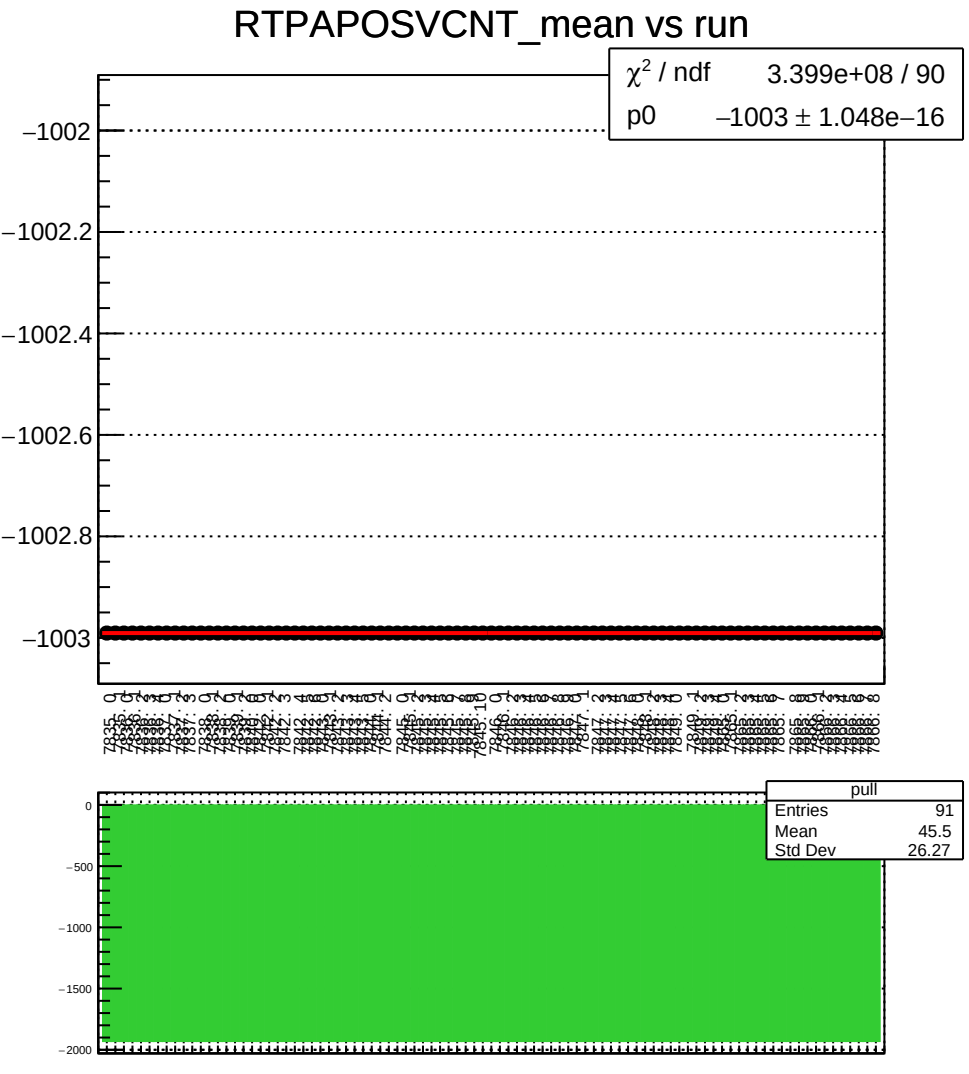

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

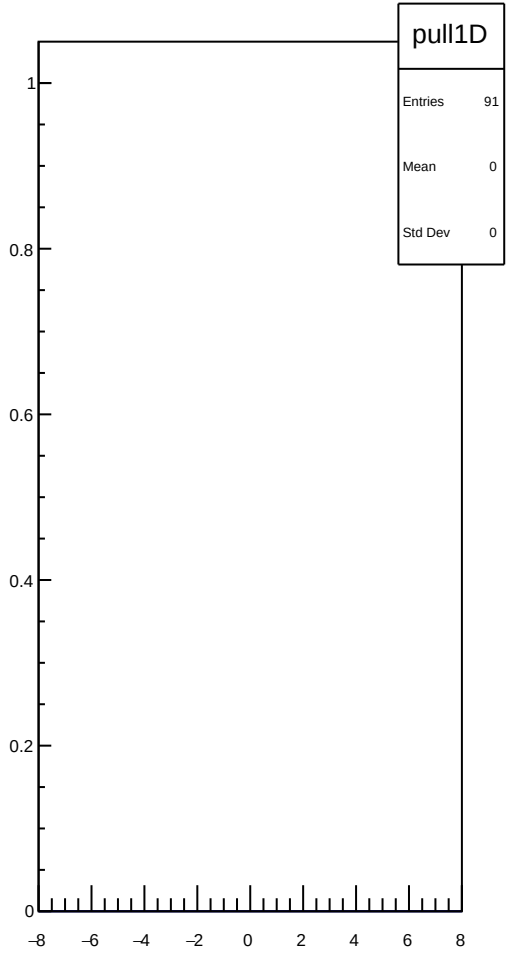

Phi_FG_mean vs run
χ² / ndf 9.005e+05 / 90
p0 89.96 ± 1.048e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 91
Mean 45.5
Std Dev 26.27
100
80
60
40
20
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

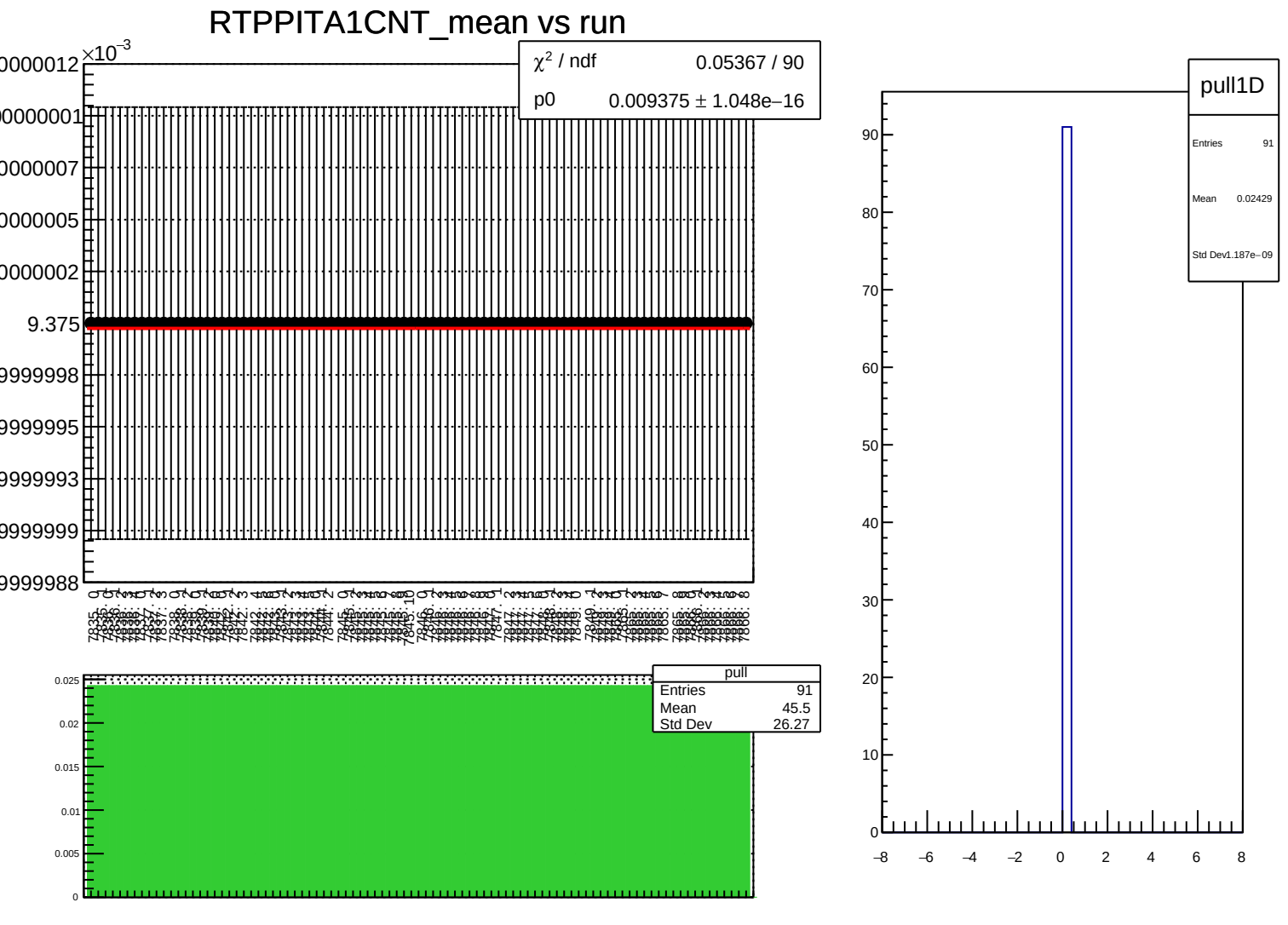

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.034e+04 / 90
p0 16.01± 1.048e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 91
Mean 45.5
Std Dev 26.27
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

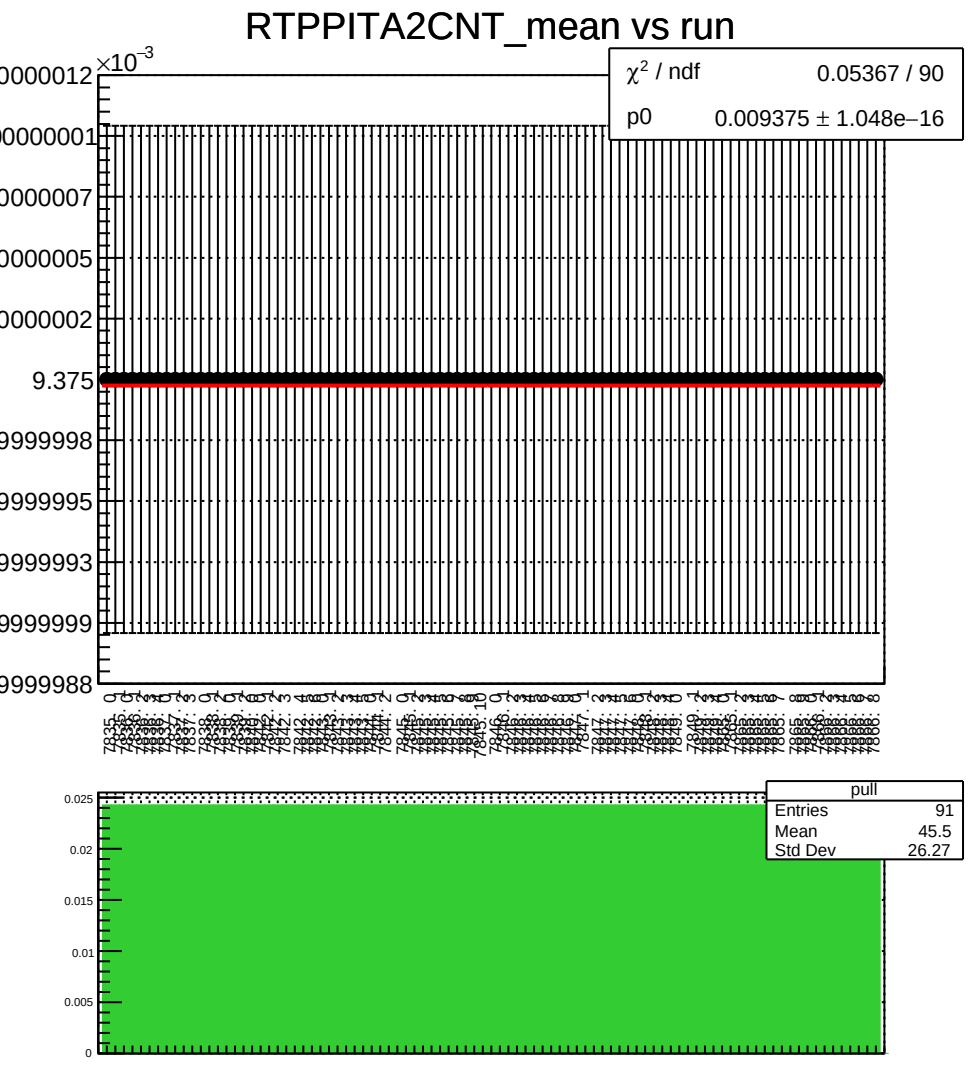

IGL1I00OD16_16_mean vs run
χ² / ndf 4.135e+04 / 90
p0 17.01± 1.048e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 91
Mean 45.5
Std Dev 26.27
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

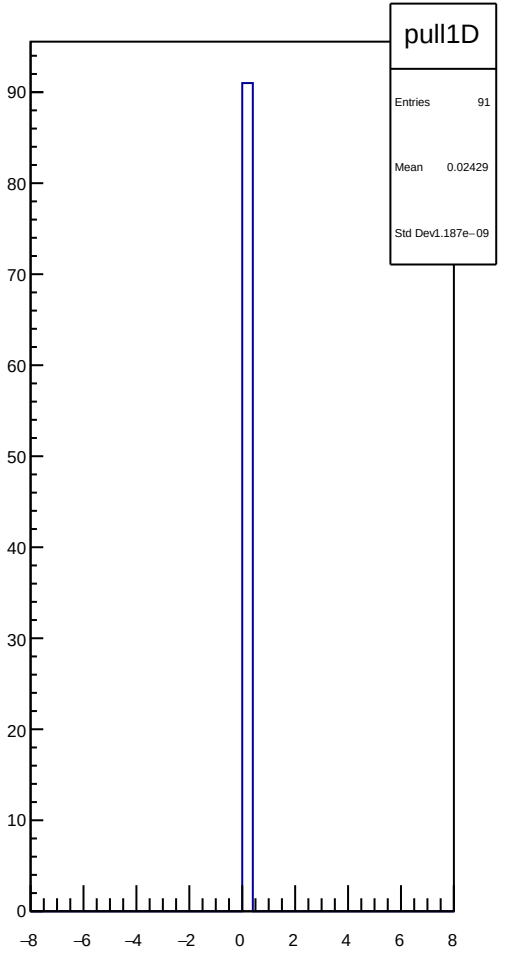

RTPAPOSUCNT_mean vs run
χ² / ndf 3.895e+27 / 90
p0 913 ± 1.048e−16
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 91
Mean −5.619e+08
Std Dev 0
×10¹²
20
15
10
5
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 3.399e+08 / 90
p0 −1003 ± 1.048e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−500
−1000
−1500
−2000


pull1D
Entries 91
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 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09


RTPPITA2CNT_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27


pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09