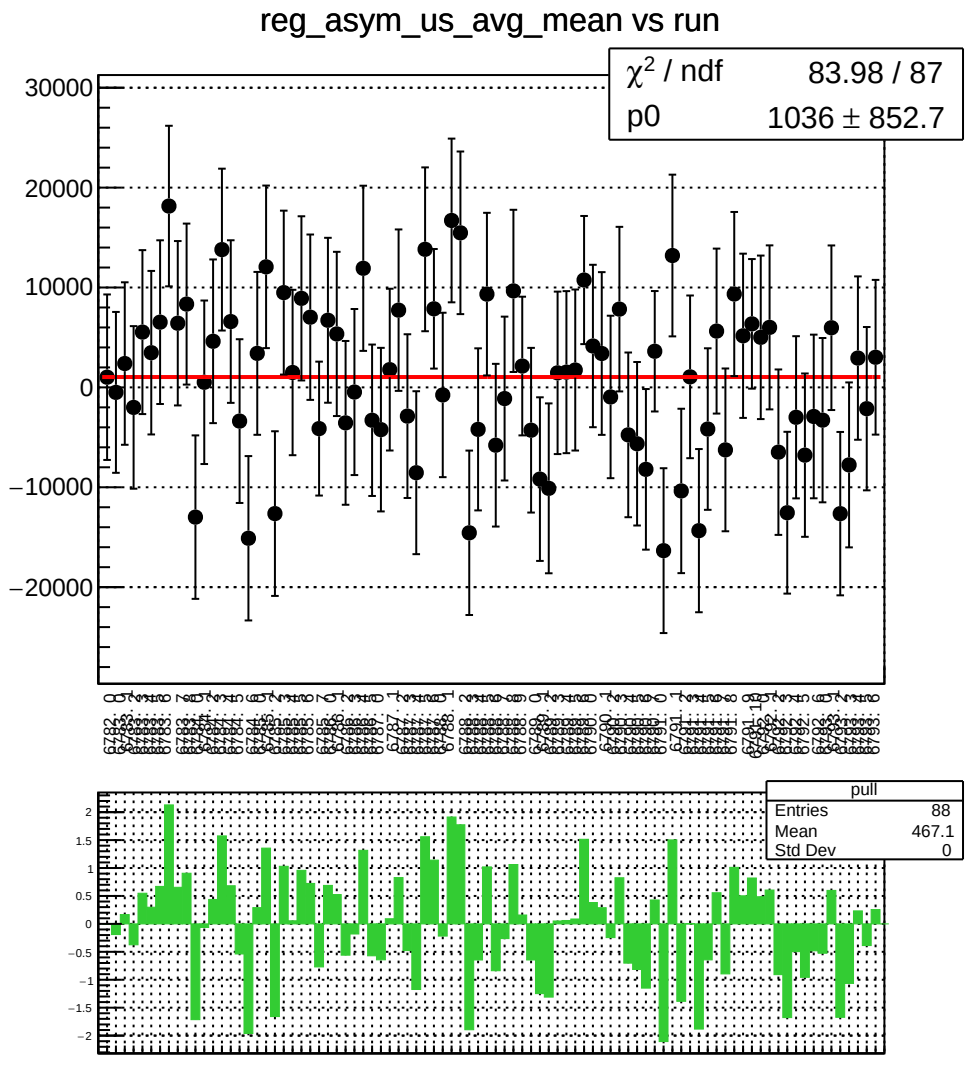
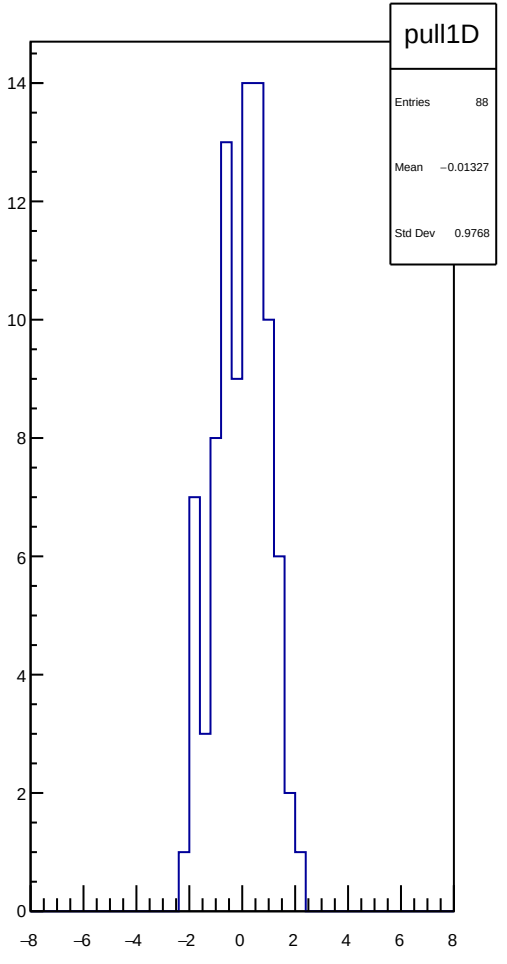
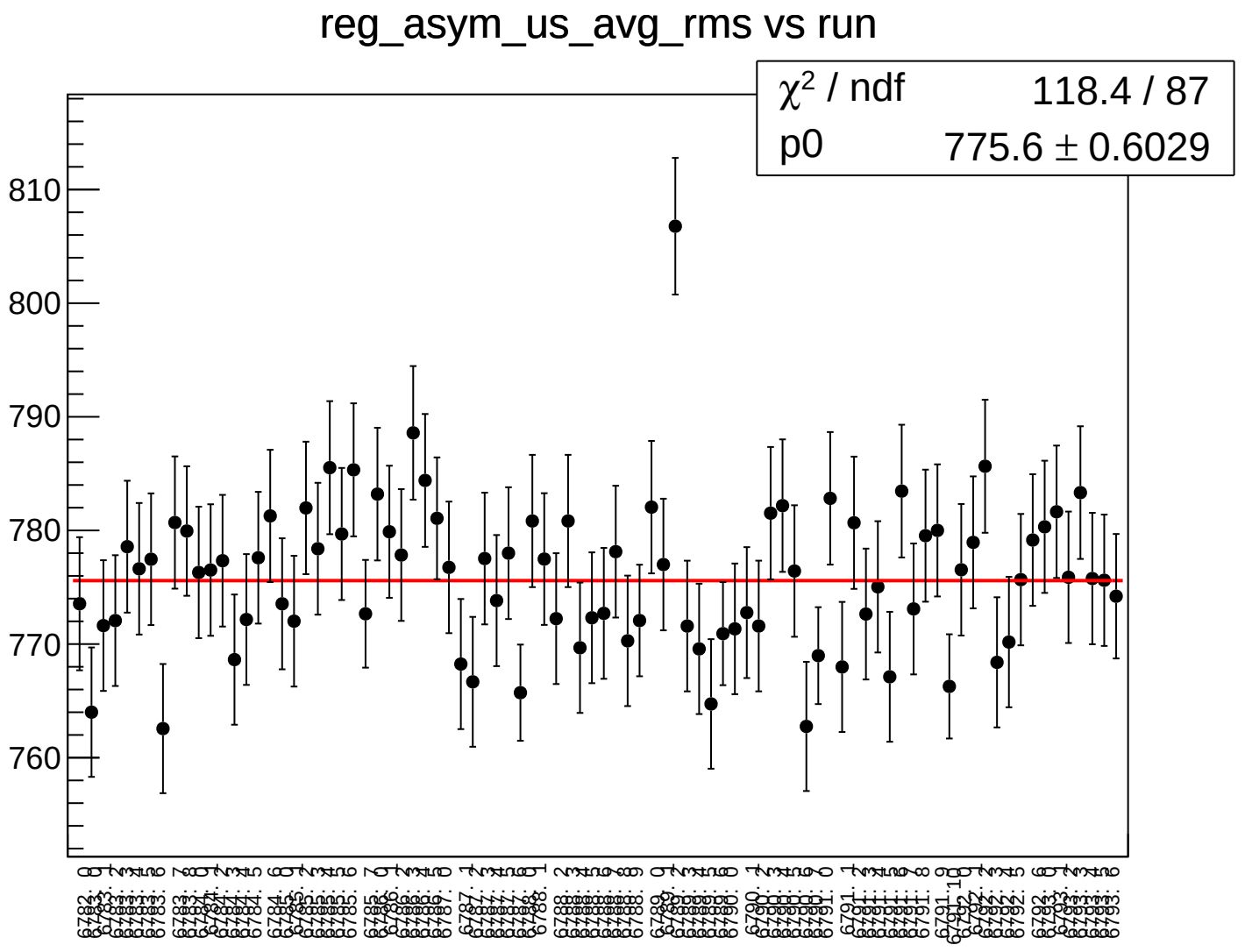
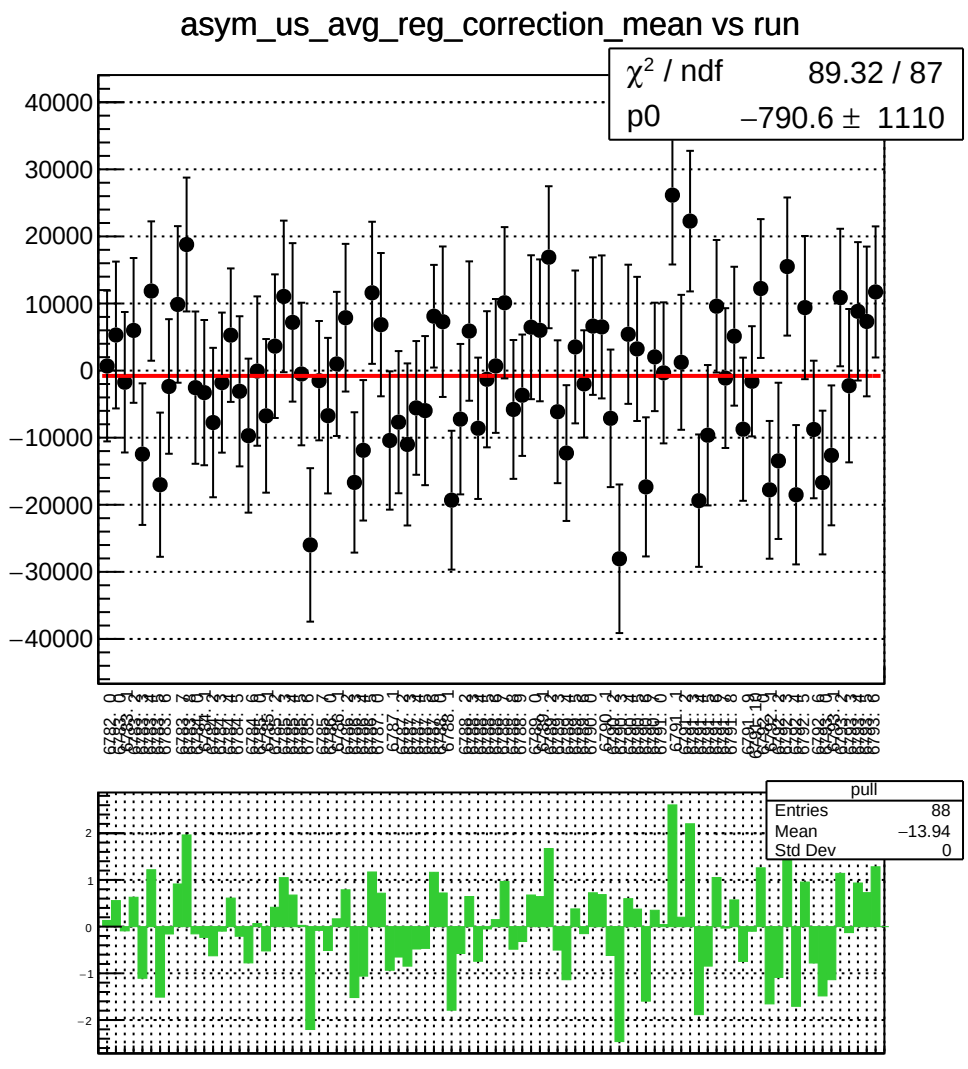
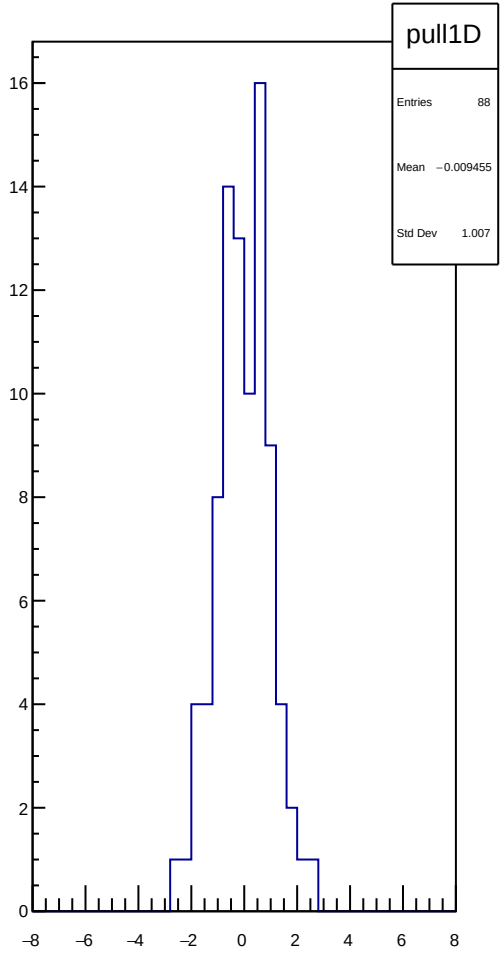
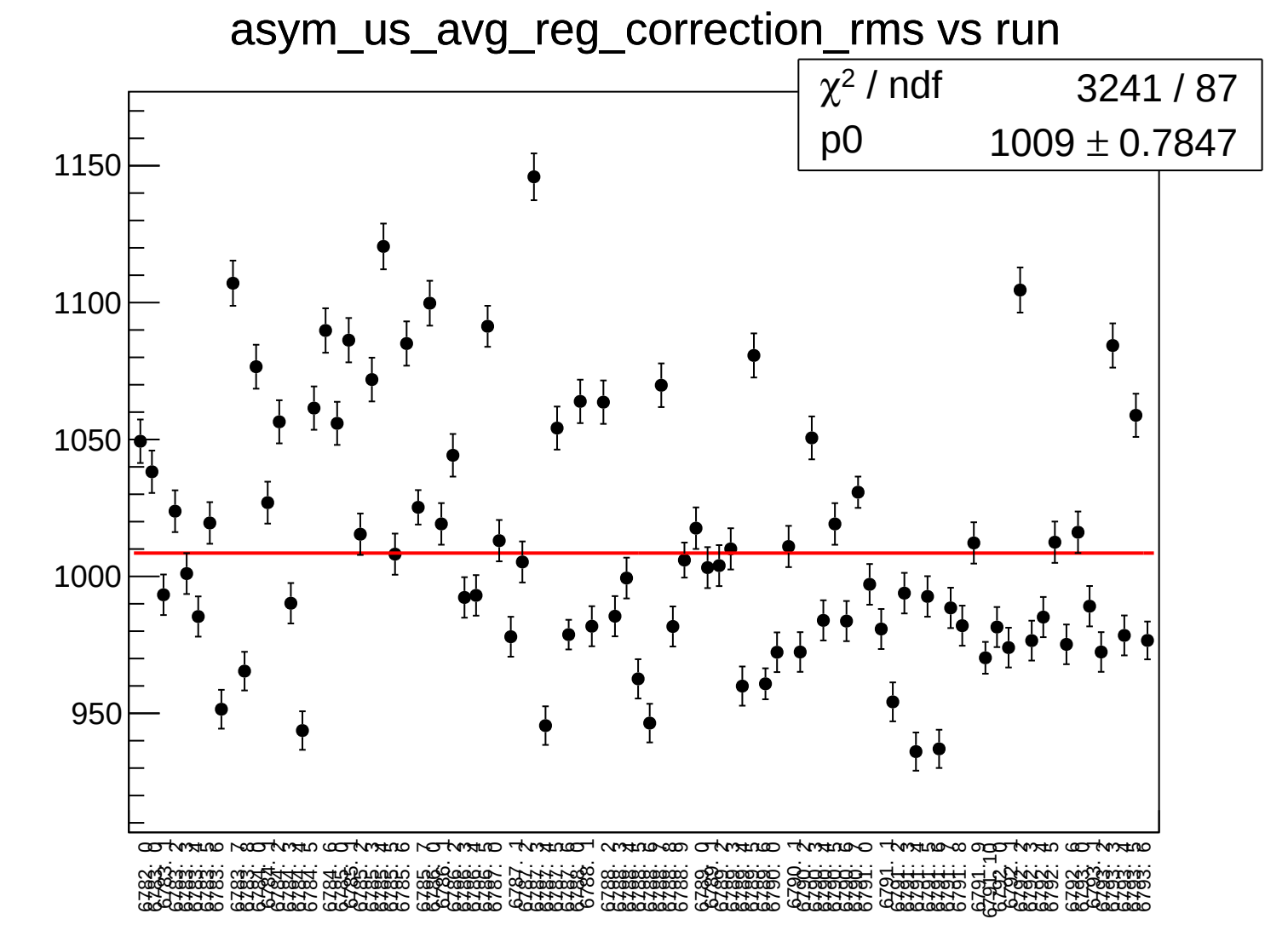

reg_asym_us_avg_mean vs run
χ² / ndf 83.98 / 87
p0 1036 ± 852.7
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 467.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

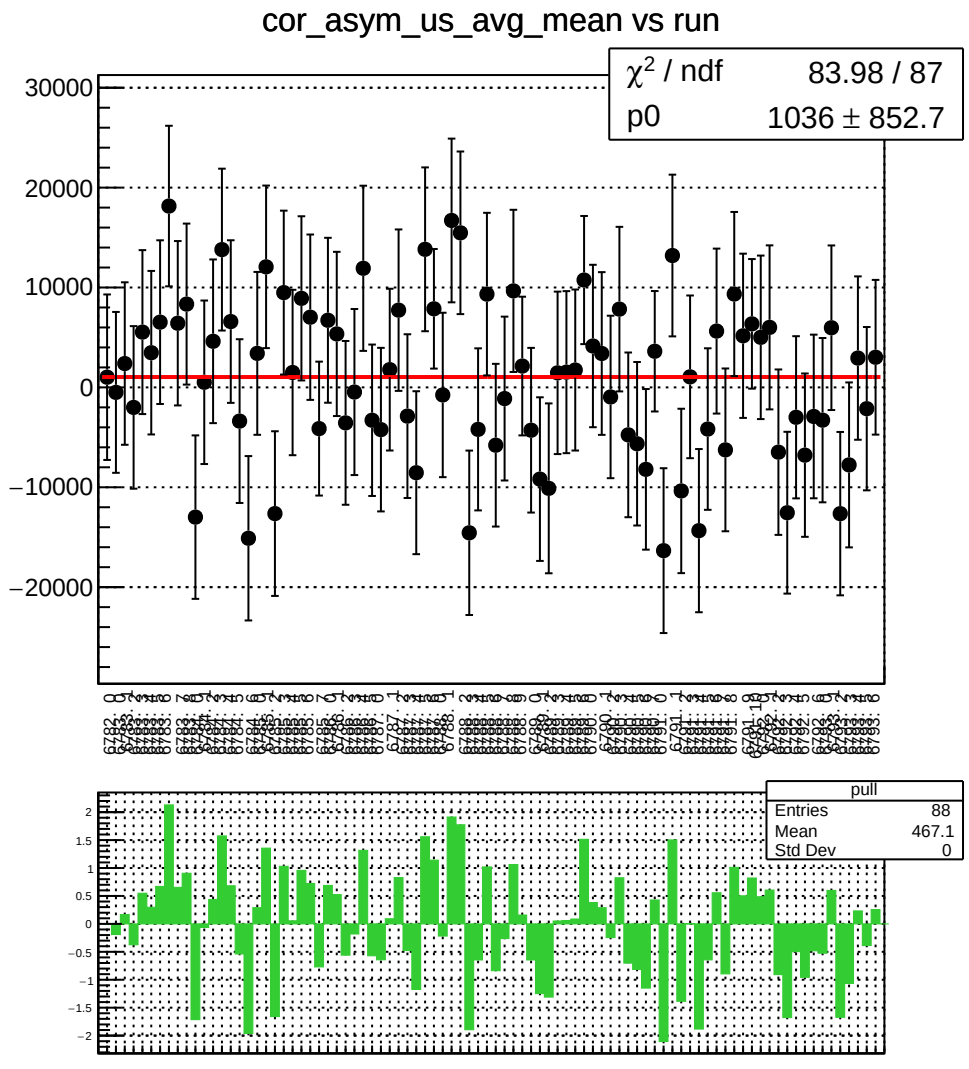

pull1D
Entries 88
Mean −0.01327
Std Dev 0.9768
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

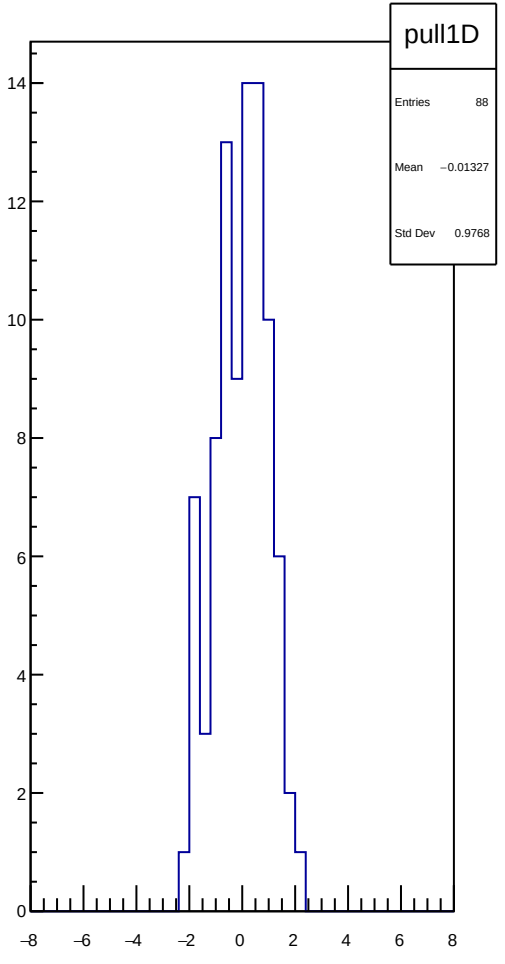

reg_asym_us_avg_rms vs run
χ^2 / ndf 118.4 / 87
p0 775.6 ± 0.6029
810
800
790
780
770
760

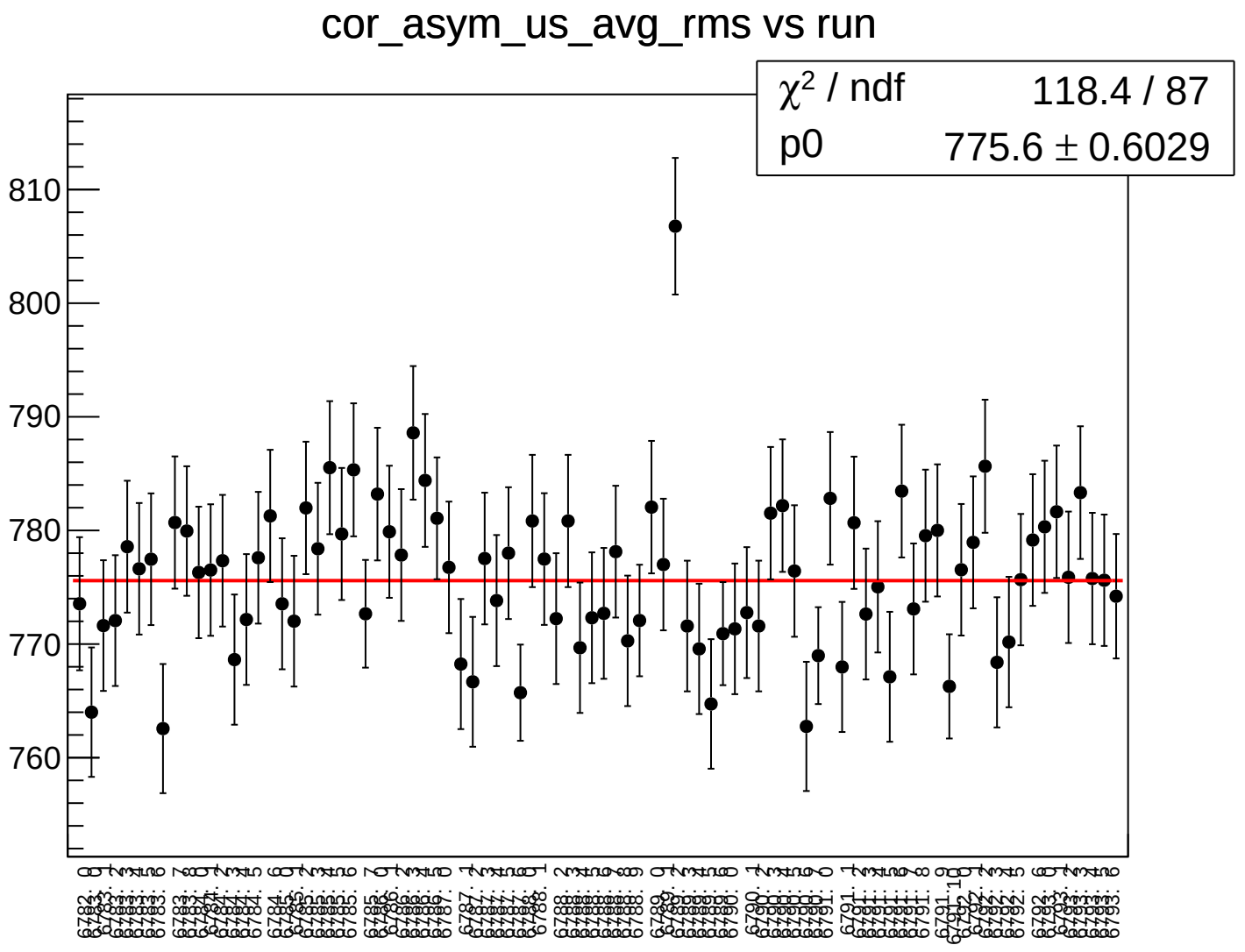

asym_us_avg_reg_correction_mean vs run
χ² / ndf 89.32 / 87
p0 −790.6 ± 1110
pull
Entries 88
Mean −13.94
Std Dev 0

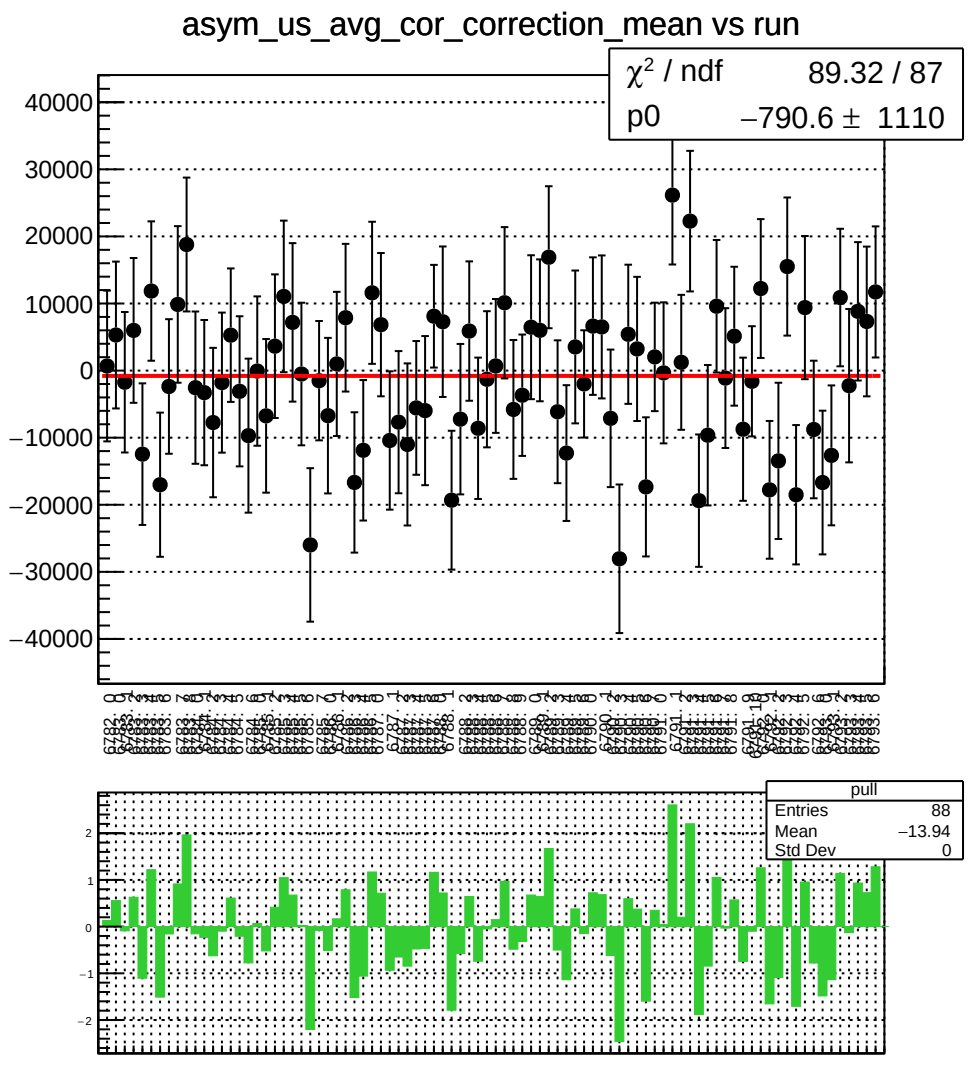

pull1D
Entries 88
Mean −0.009455
Std Dev 1.007

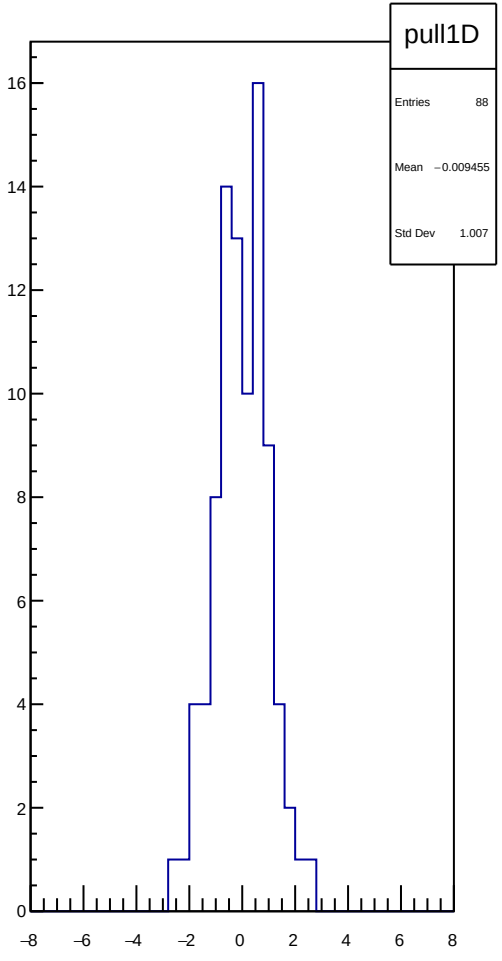

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3241 / 87
p0 1009 ± 0.7847
1150
1100
1050
1000
950

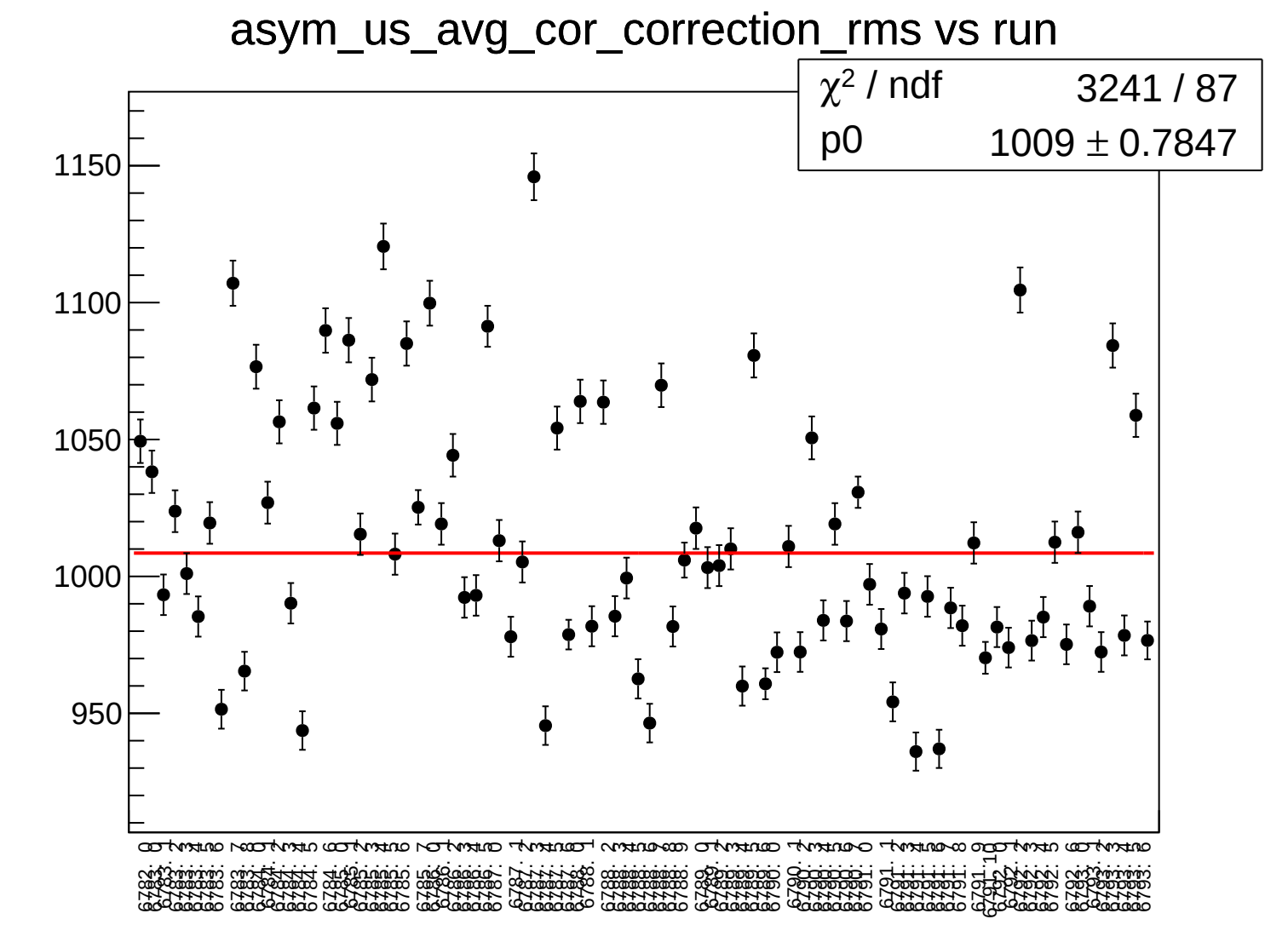

cor_asym_us_avg_mean vs run
χ² / ndf 83.98 / 87
p0 1036 ± 852.7
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 467.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

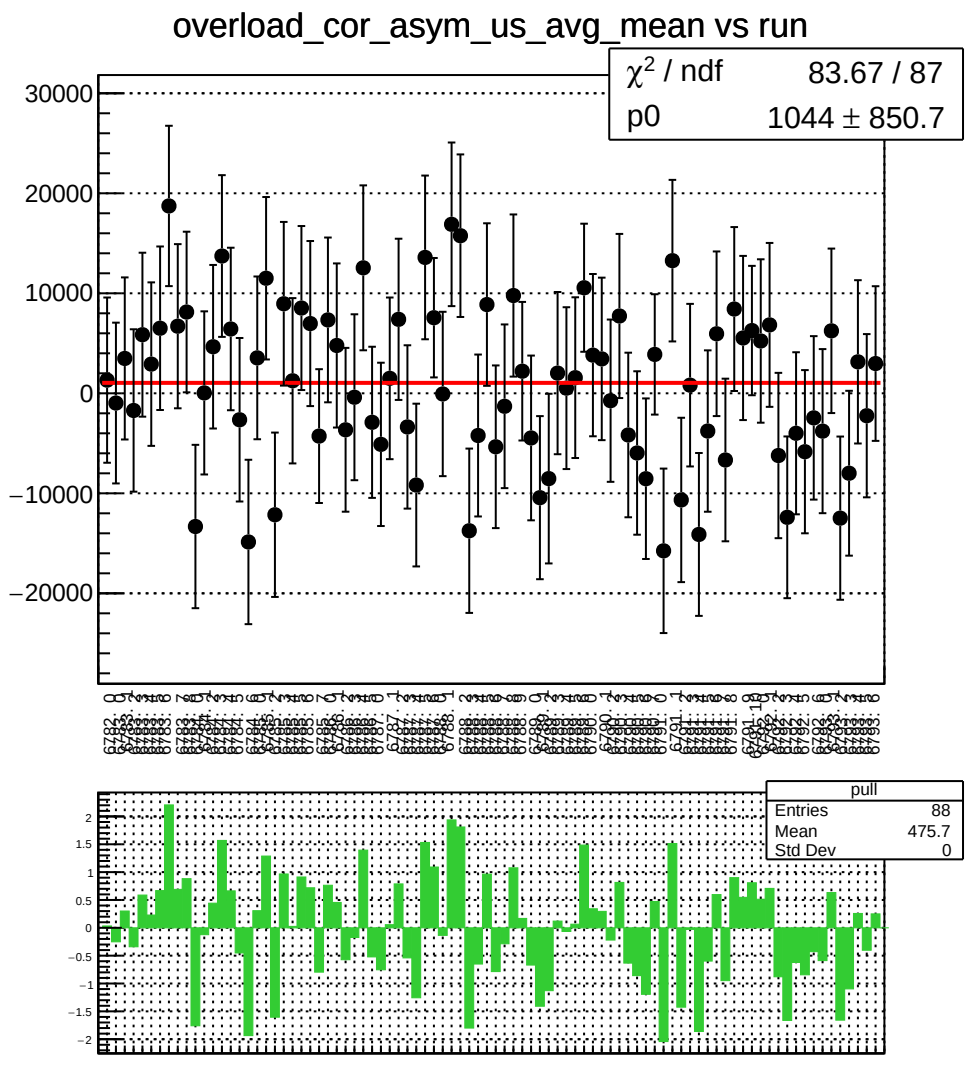

pull1D
Entries 88
Mean −0.01327
Std Dev 0.9768
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

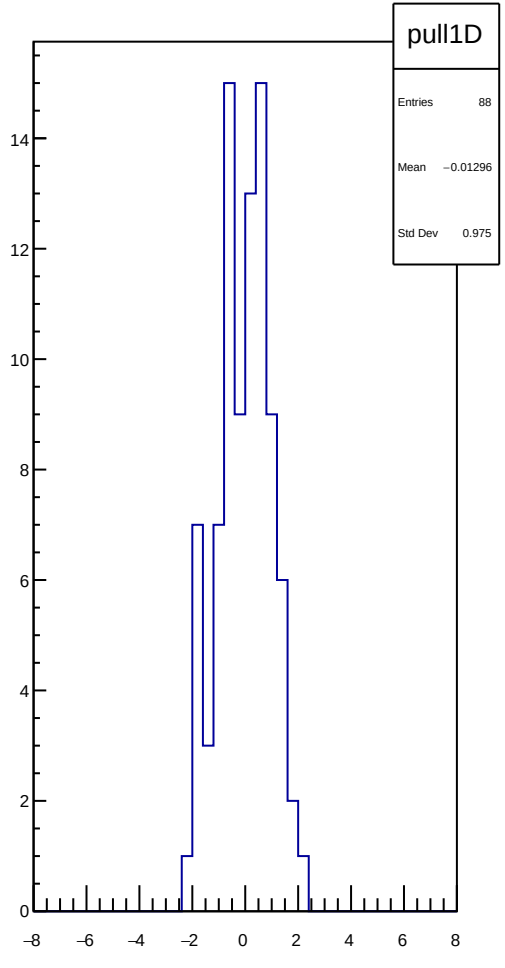

cor_asym_us_avg_rms vs run
χ^2 / ndf 118.4 / 87
p0 775.6 ± 0.6029
810
800
790
780
770
760


asym_us_avg_cor_correction_mean vs run
χ² / ndf 89.32 / 87
p0 −790.6 ± 1110
pull
Entries 88
Mean −13.94
Std Dev 0


pull1D
Entries 88
Mean −0.009455
Std Dev 1.007


asym_us_avg_cor_correction_rms vs run
χ² / ndf 3241 / 87
p0 1009 ± 0.7847
1150
1100
1050
1000
950


overload_cor_asym_us_avg_mean vs run
χ² / ndf 83.67 / 87
p0 1044 ± 850.7
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 475.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.01296
Std Dev 0.975
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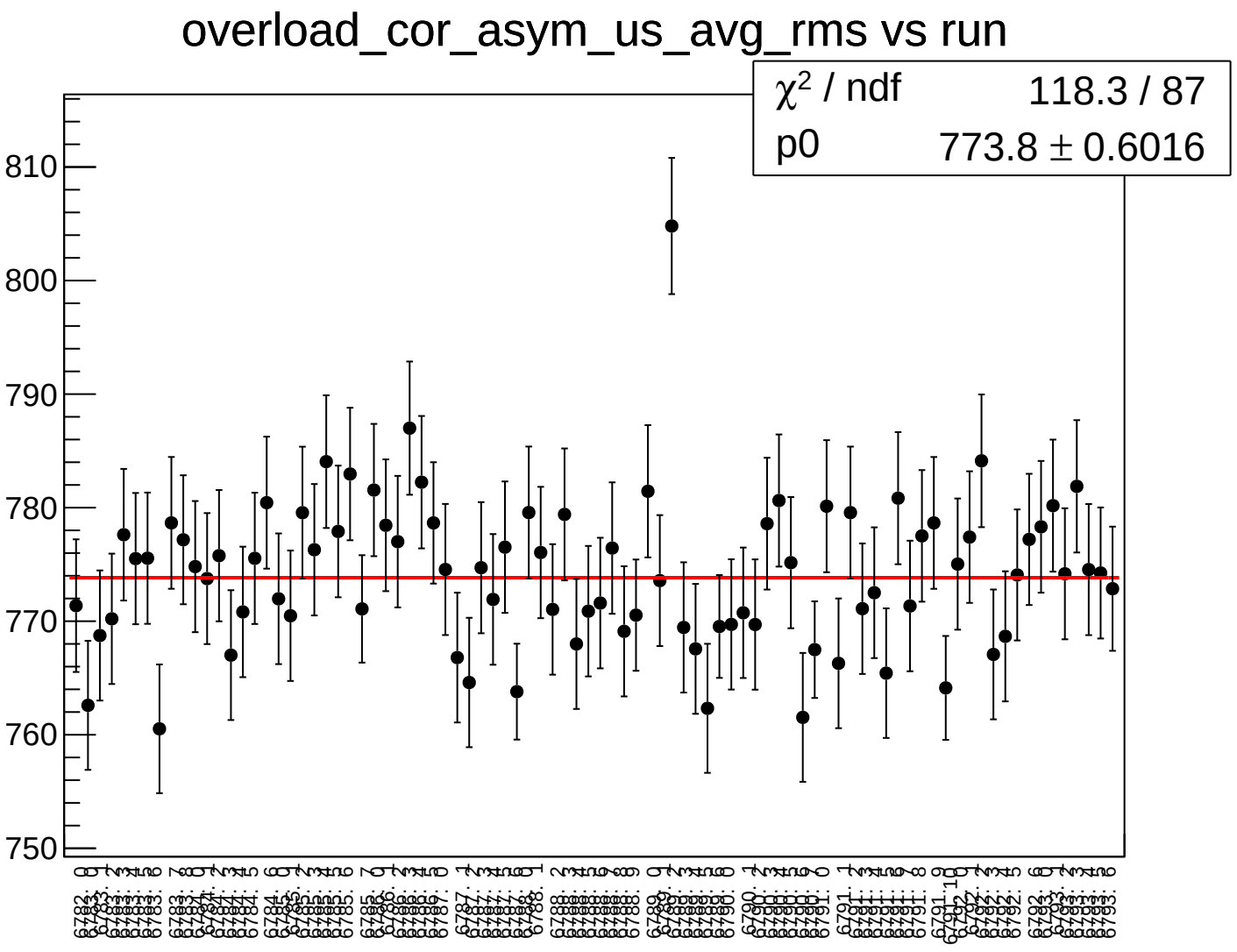
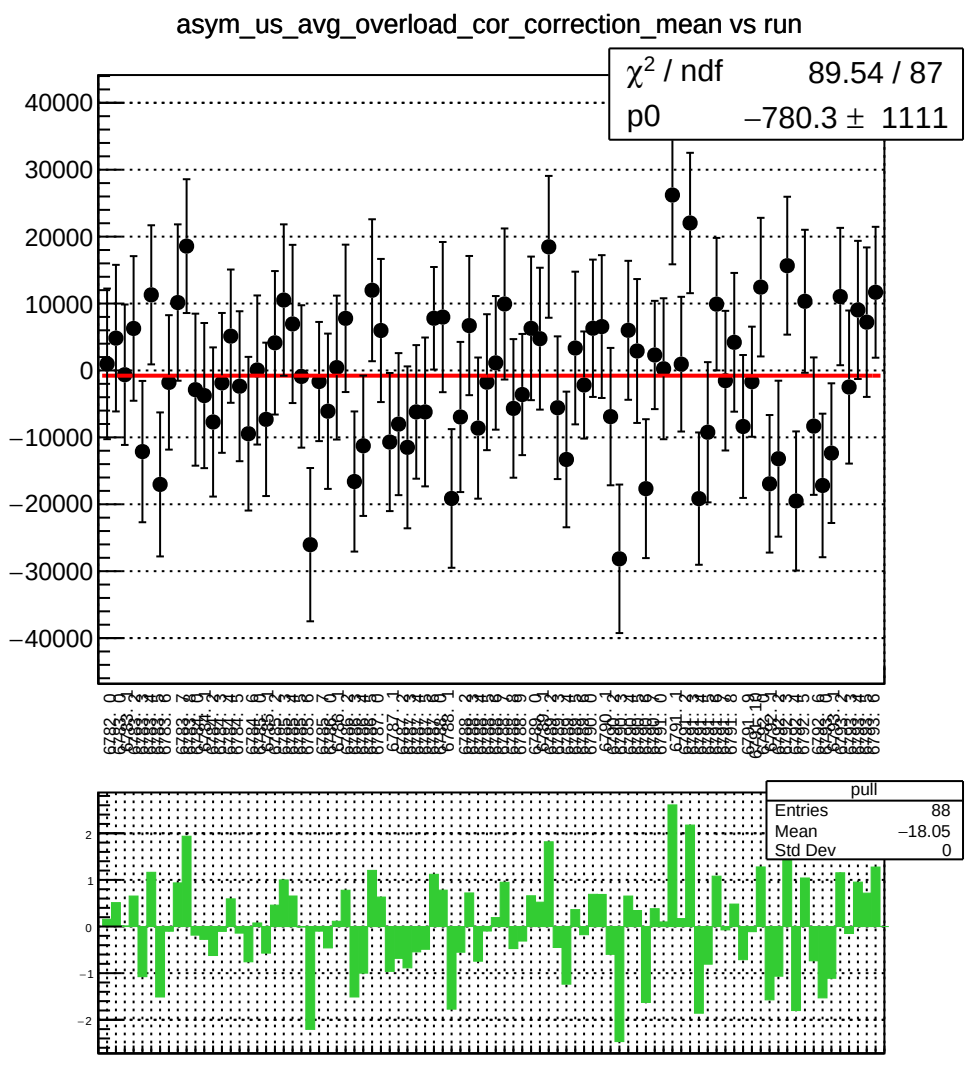
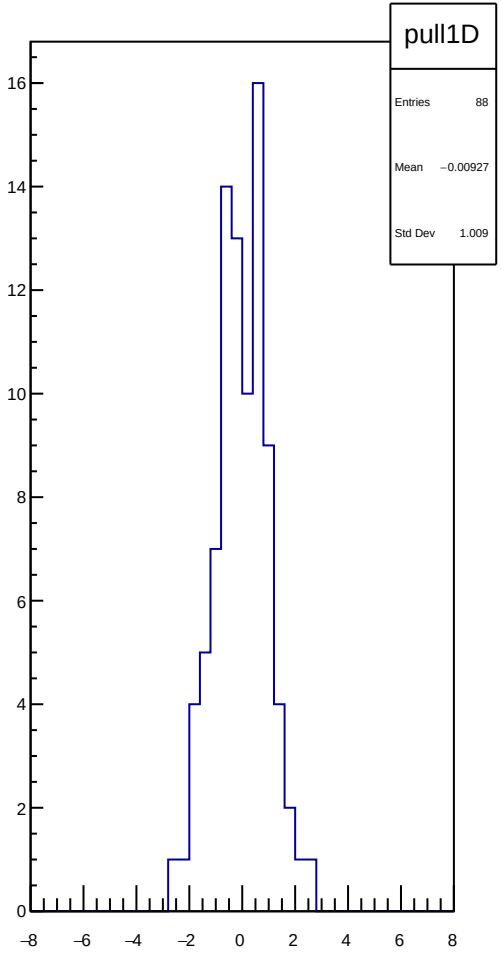
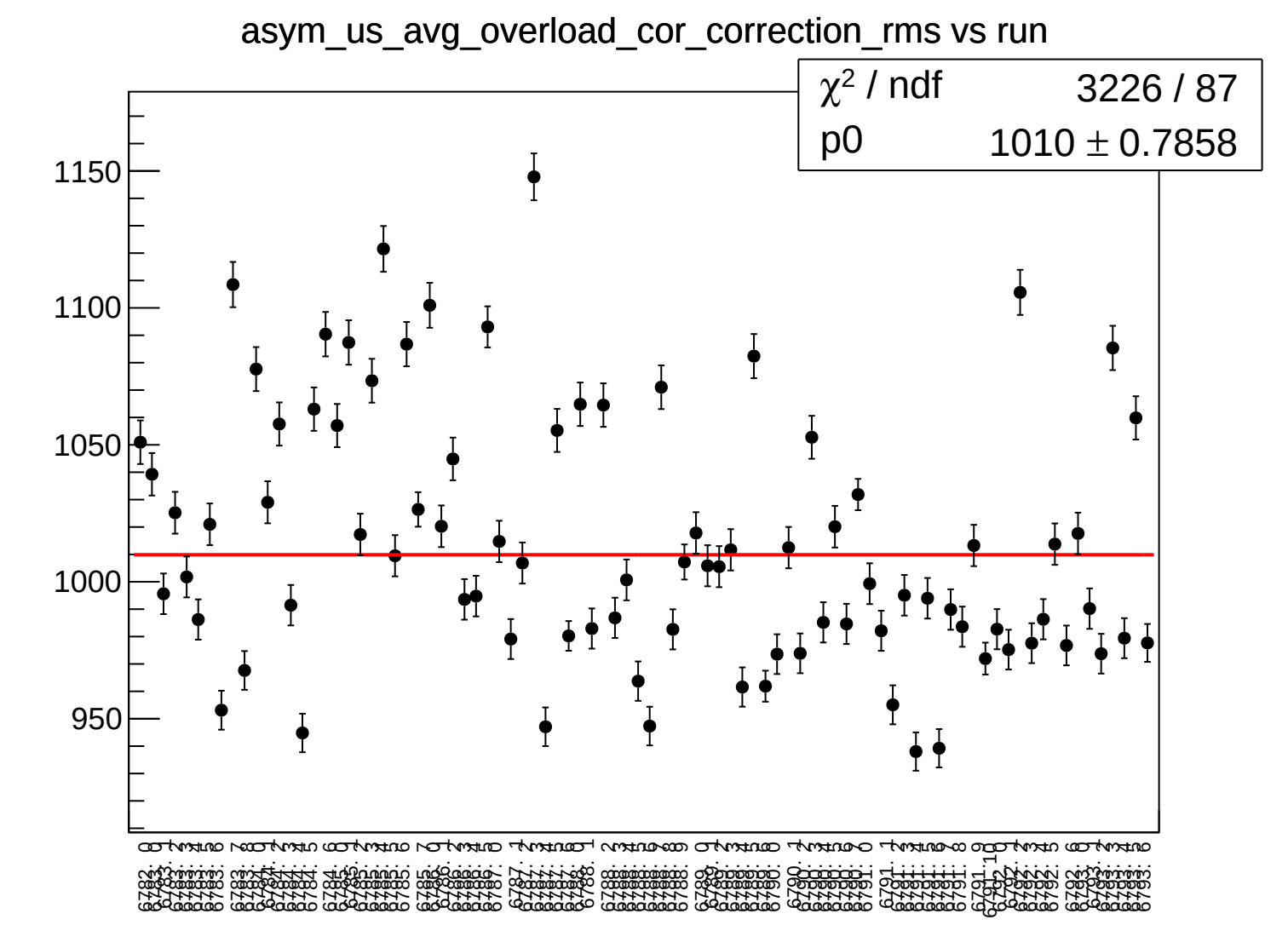
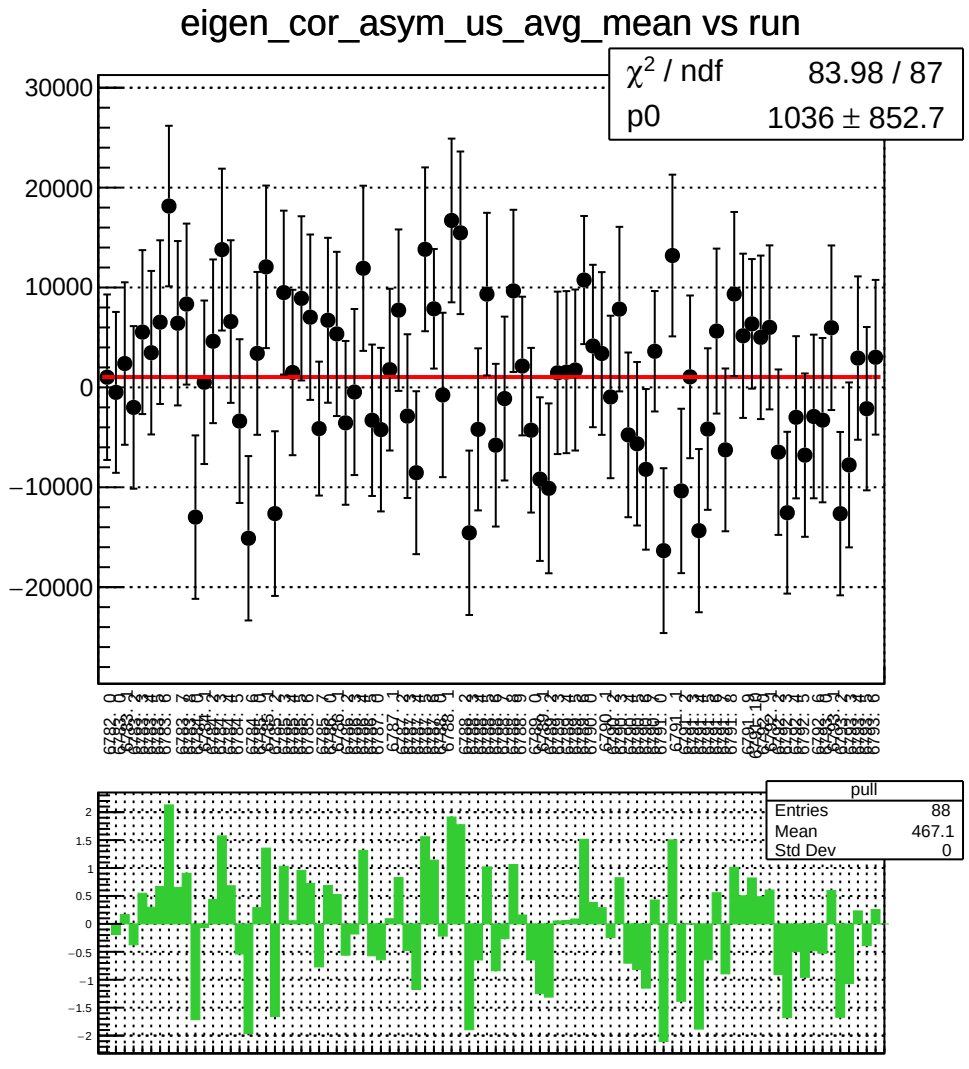
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

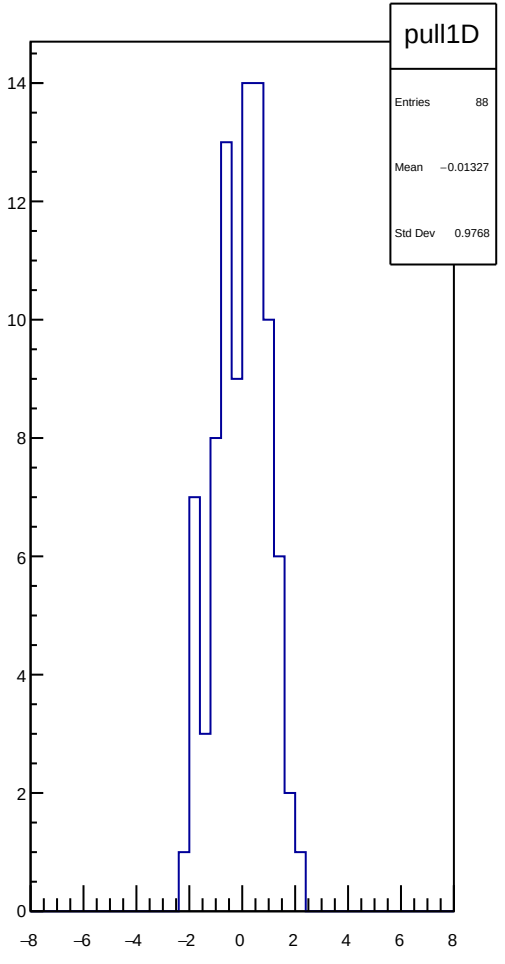

overload_cor_asym_us_avg_rms vs run
χ² / ndf 118.3 / 87
p0 773.8 ± 0.6016
810
800
790
780
770
760
750

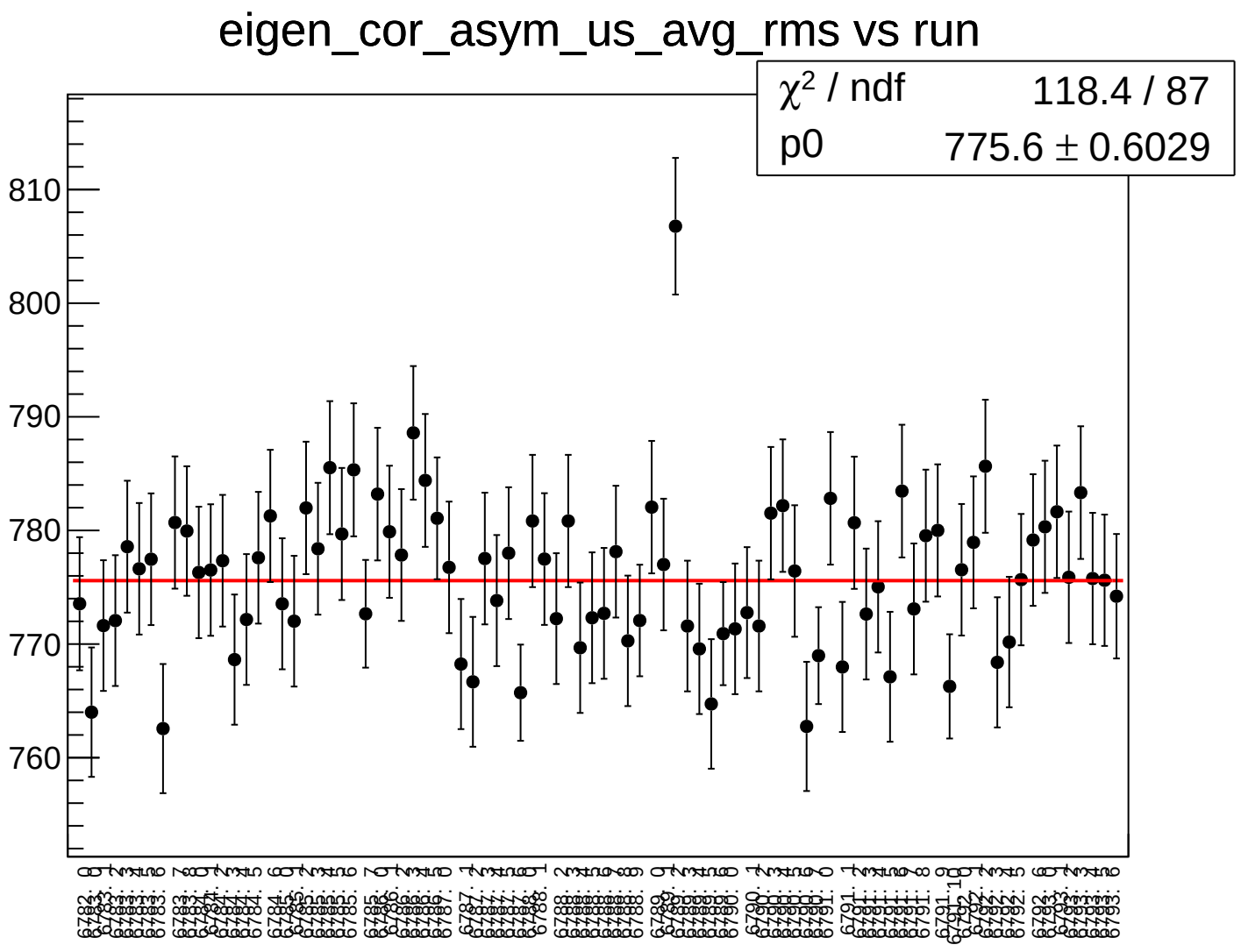

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 89.54 / 87
p0 −780.3 ± 1111
pull
Entries 88
Mean −18.05
Std Dev 0

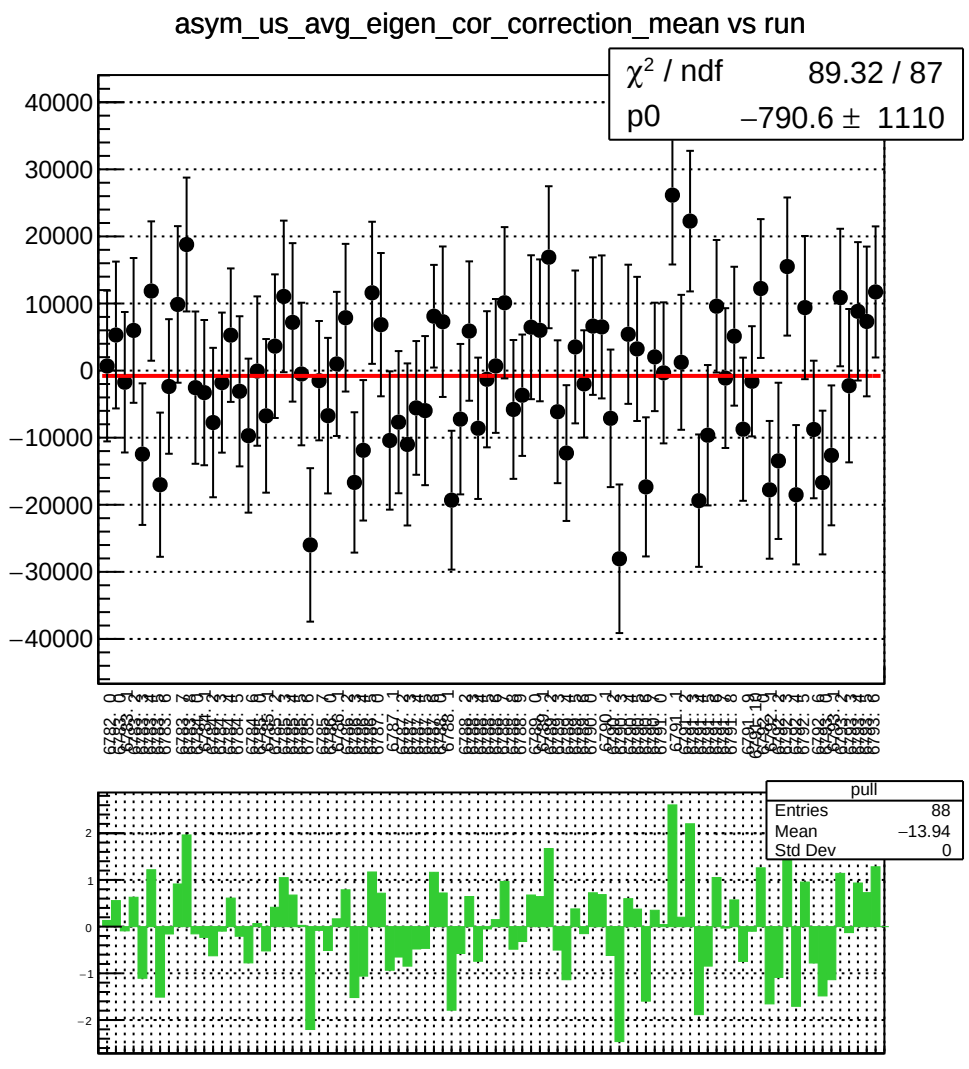

pull1D
Entries 88
Mean −0.00927
Std Dev 1.009

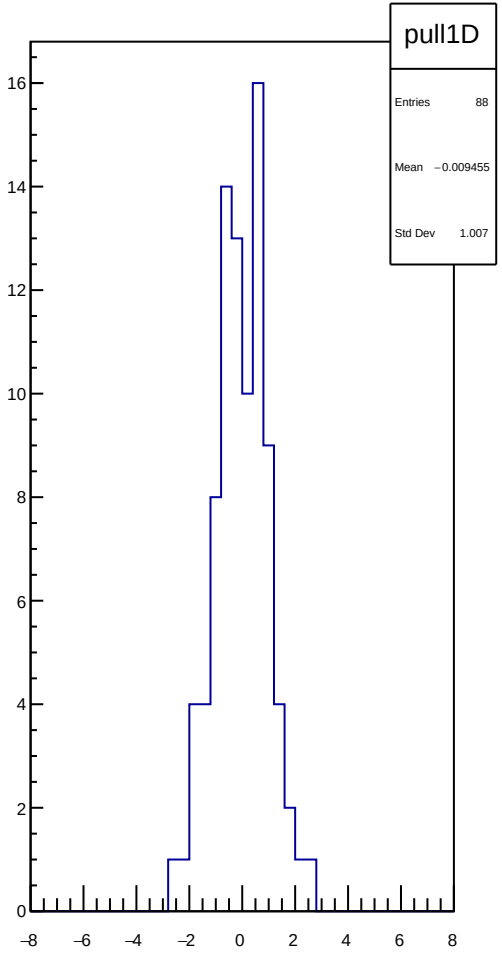

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3226 / 87
p0 1010 ± 0.7858
1150
1100
1050
1000
950

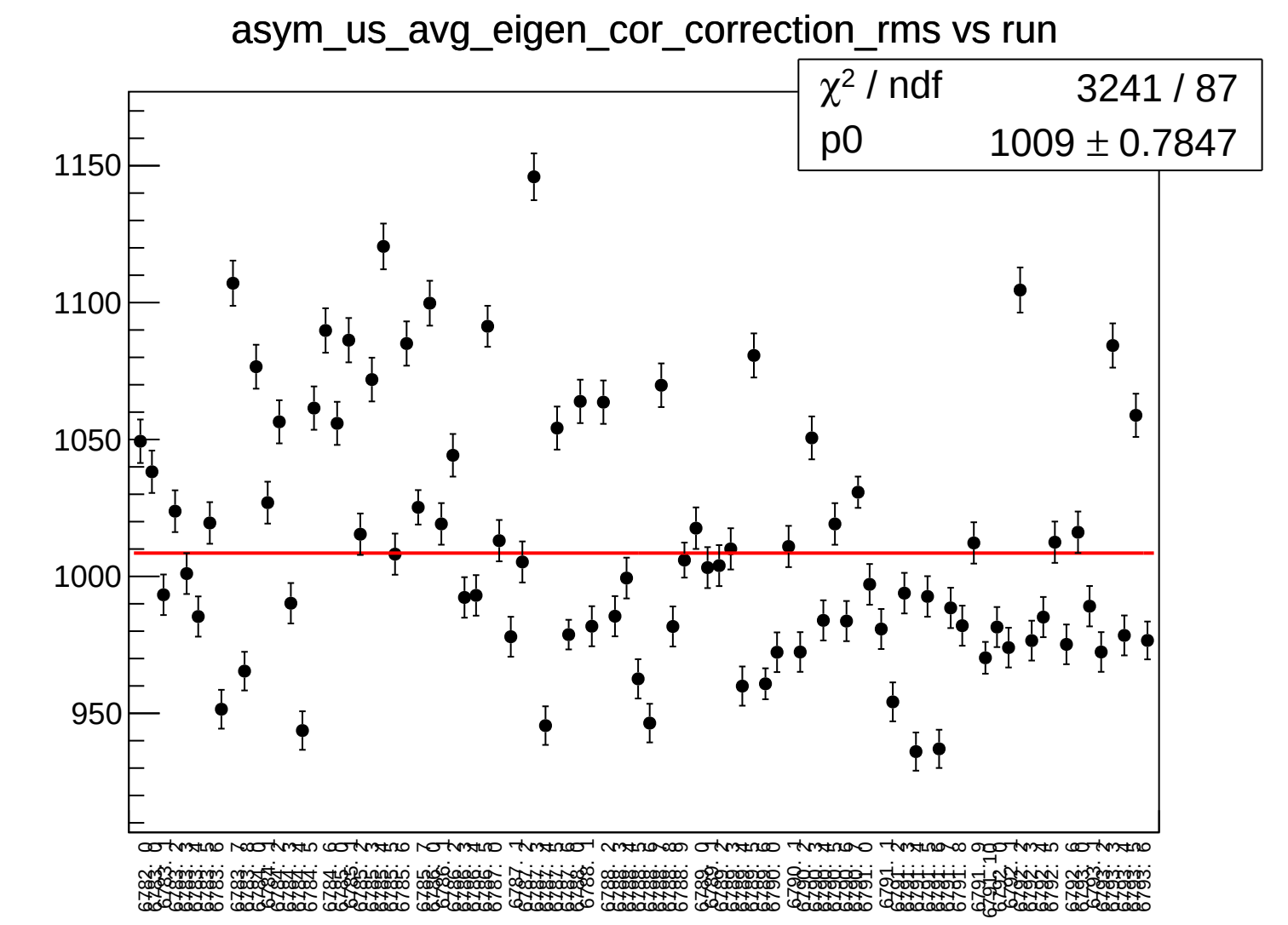

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 83.98 / 87
p0 1036 ± 852.7
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 467.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

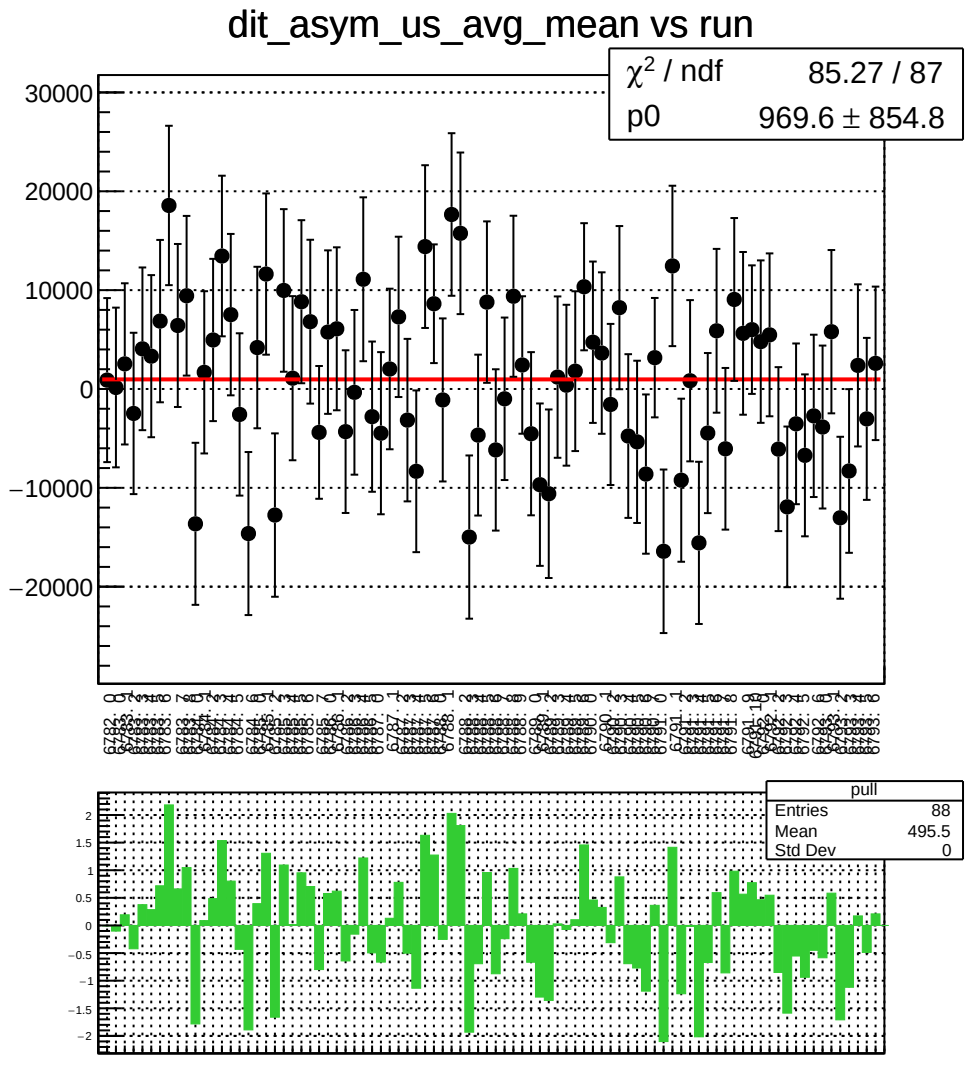

pull1D
Entries 88
Mean −0.01327
Std Dev 0.9768
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

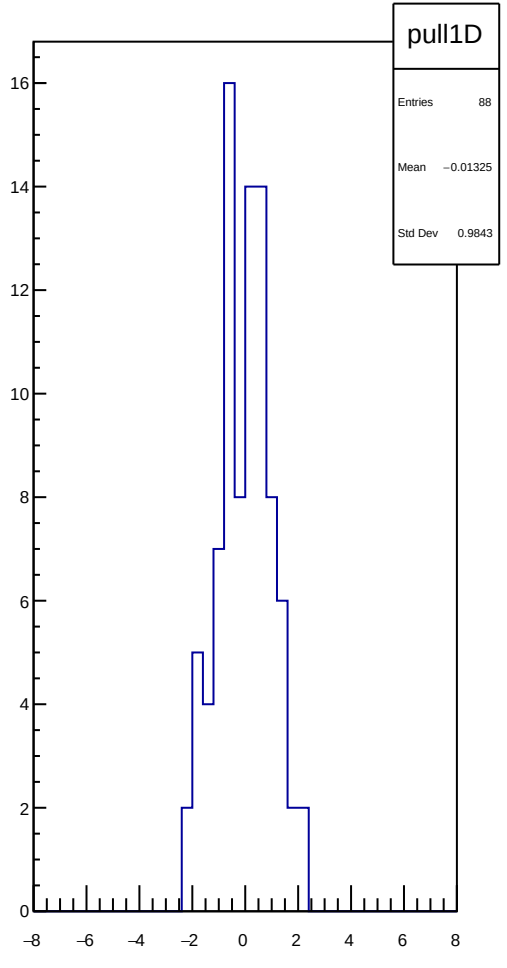

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 118.4 / 87
p0 775.6 ± 0.6029
810
800
790
780
770
760

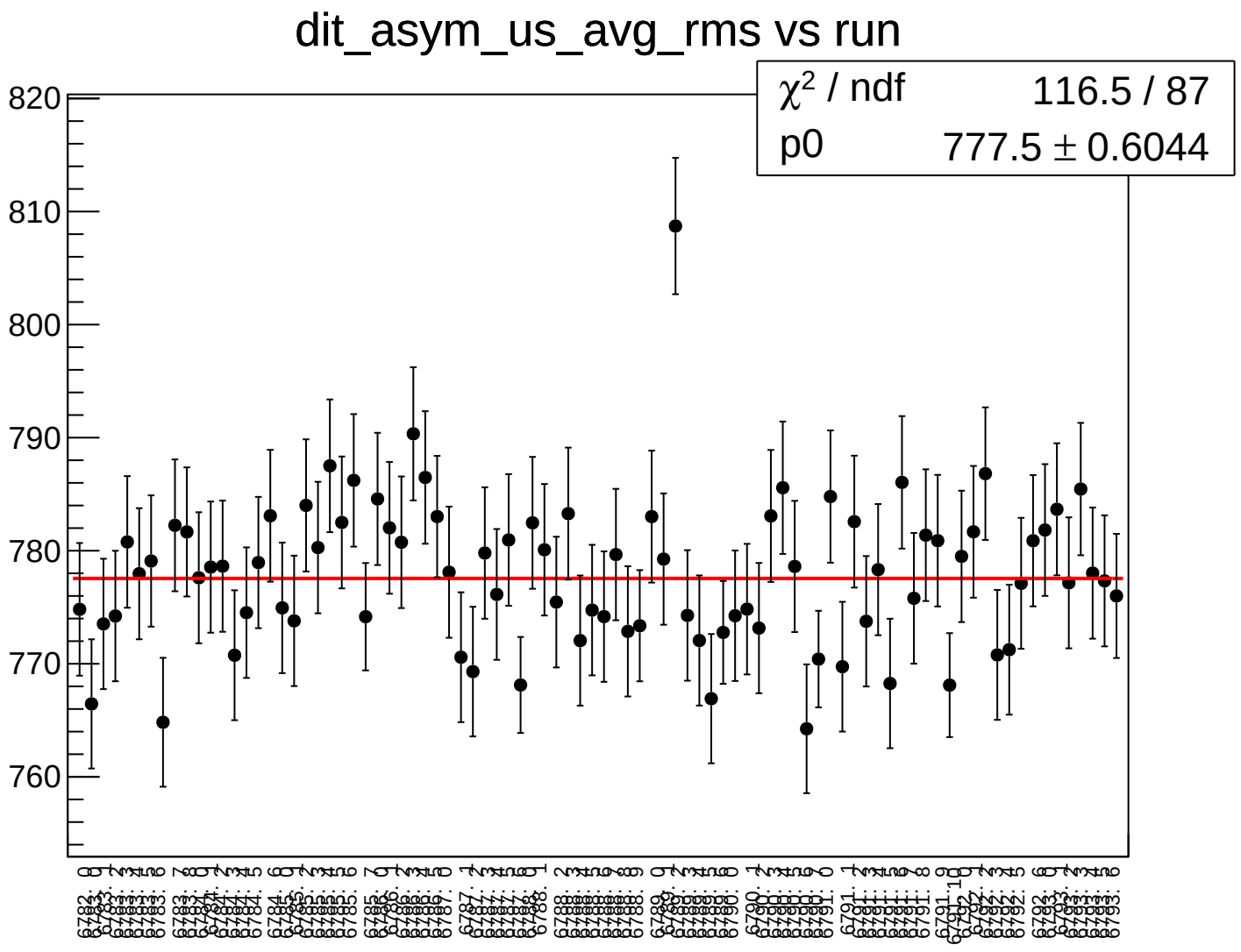

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.32 / 87
p0 −790.6 ± 1110
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −13.94
Std Dev 0
2
1
0
−1
−2

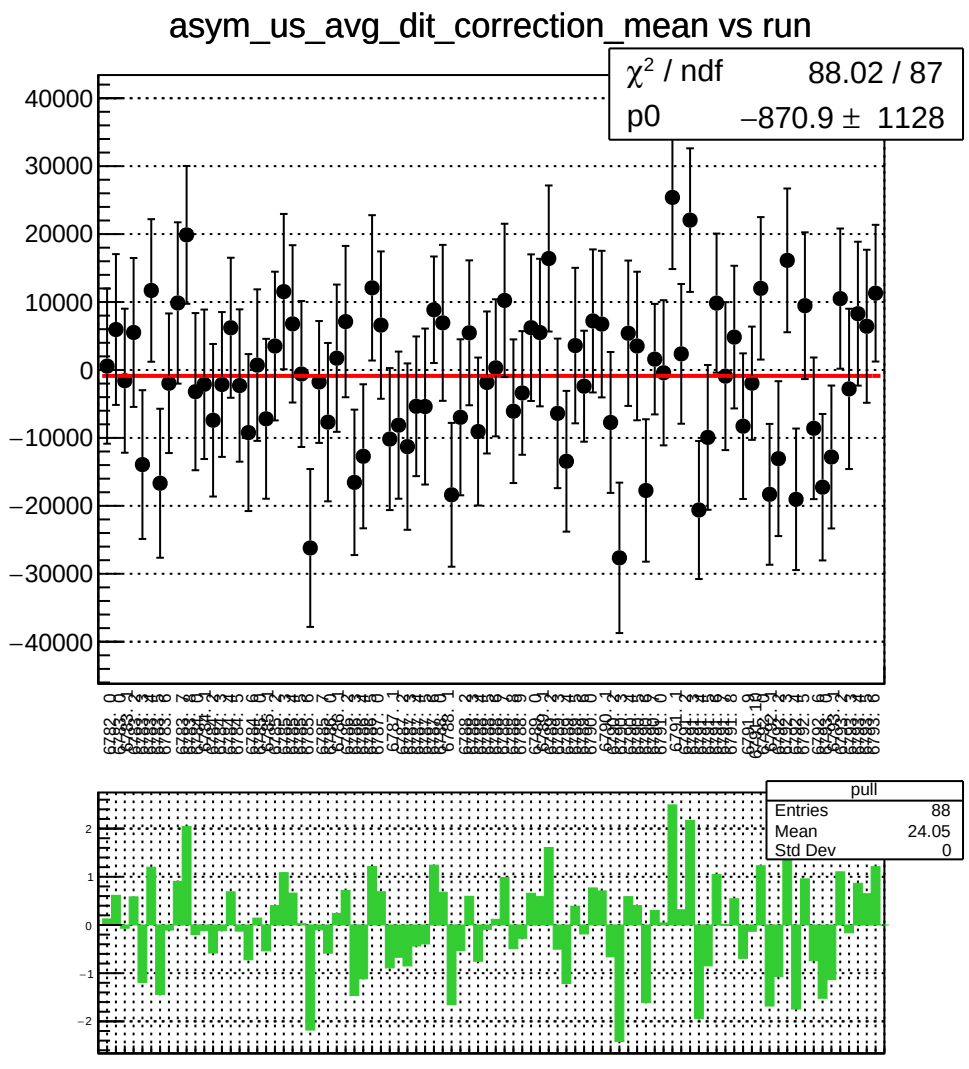

pull1D
Entries 88
Mean −0.009455
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

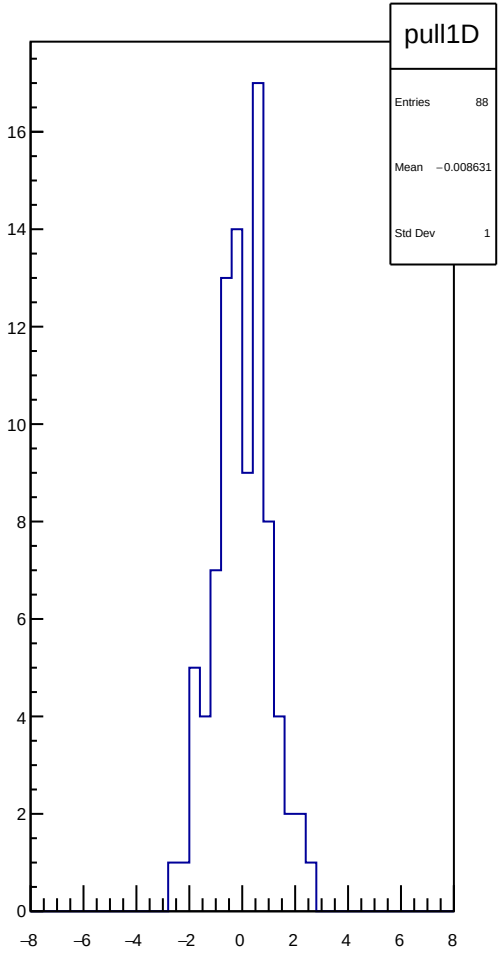

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3241 / 87
p0 1009 ± 0.7847
1150
1100
1050
1000
950

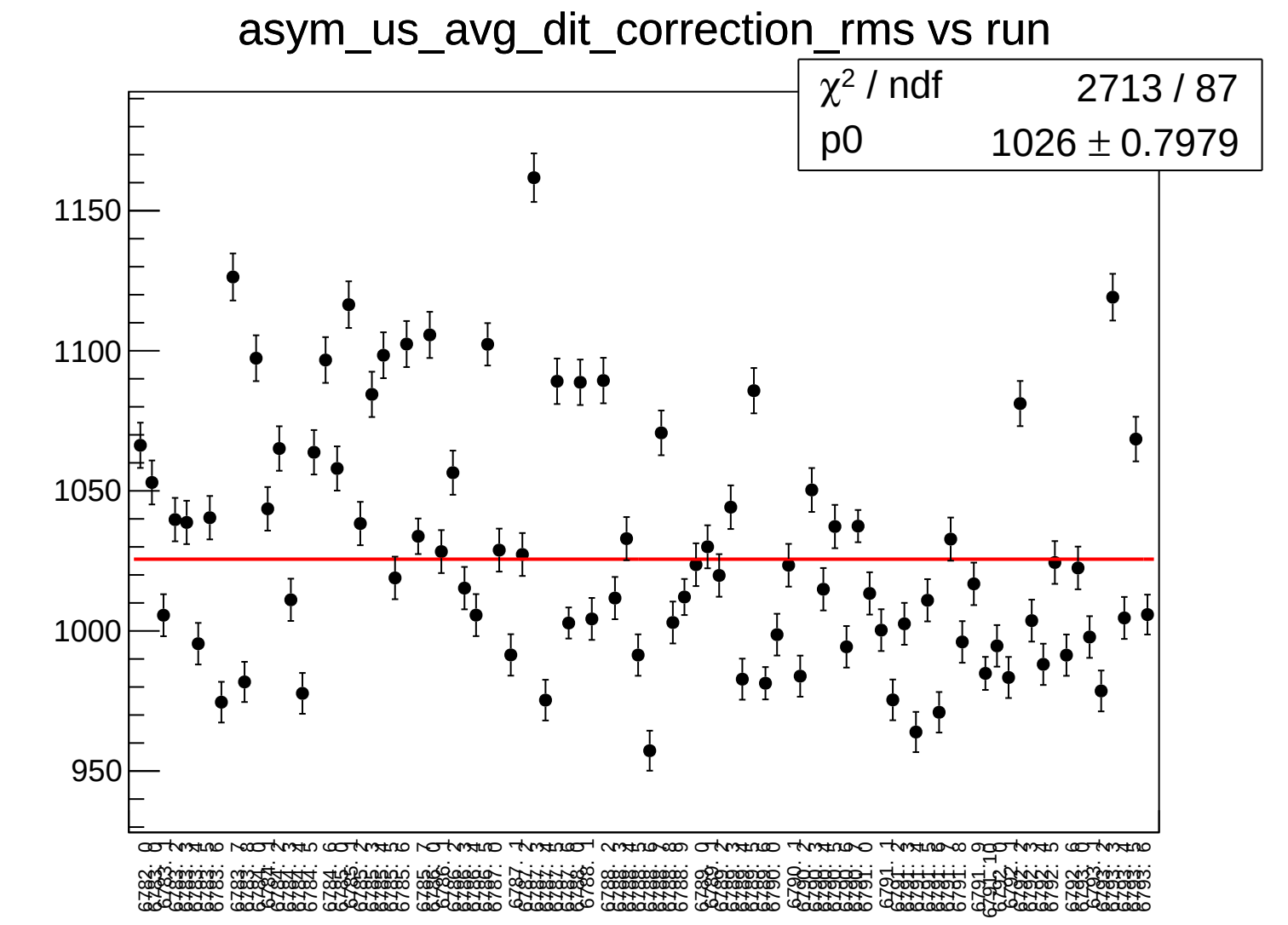

dit_asym_us_avg_mean vs run
χ² / ndf 85.27 / 87
p0 969.6 ± 854.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 495.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

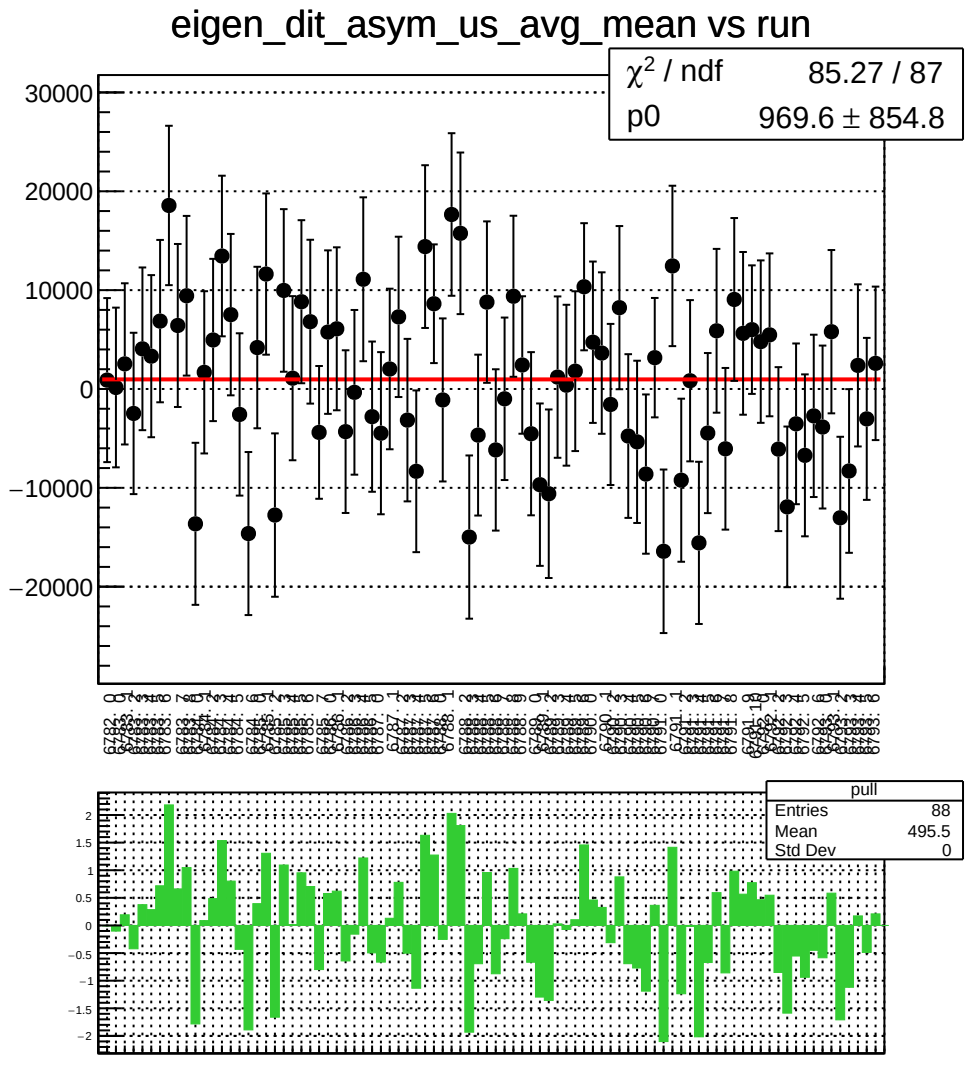

pull1D
Entries 88
Mean −0.01325
Std Dev 0.9843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

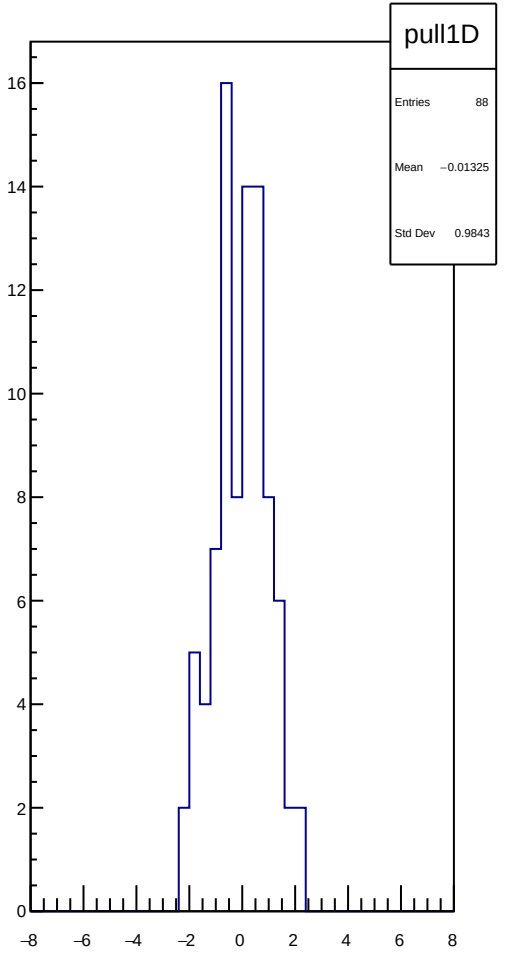

dit_asym_us_avg_rms vs run
χ² / ndf 116.5 / 87
p0 777.5 ± 0.6044
820
810
800
790
780
770
760

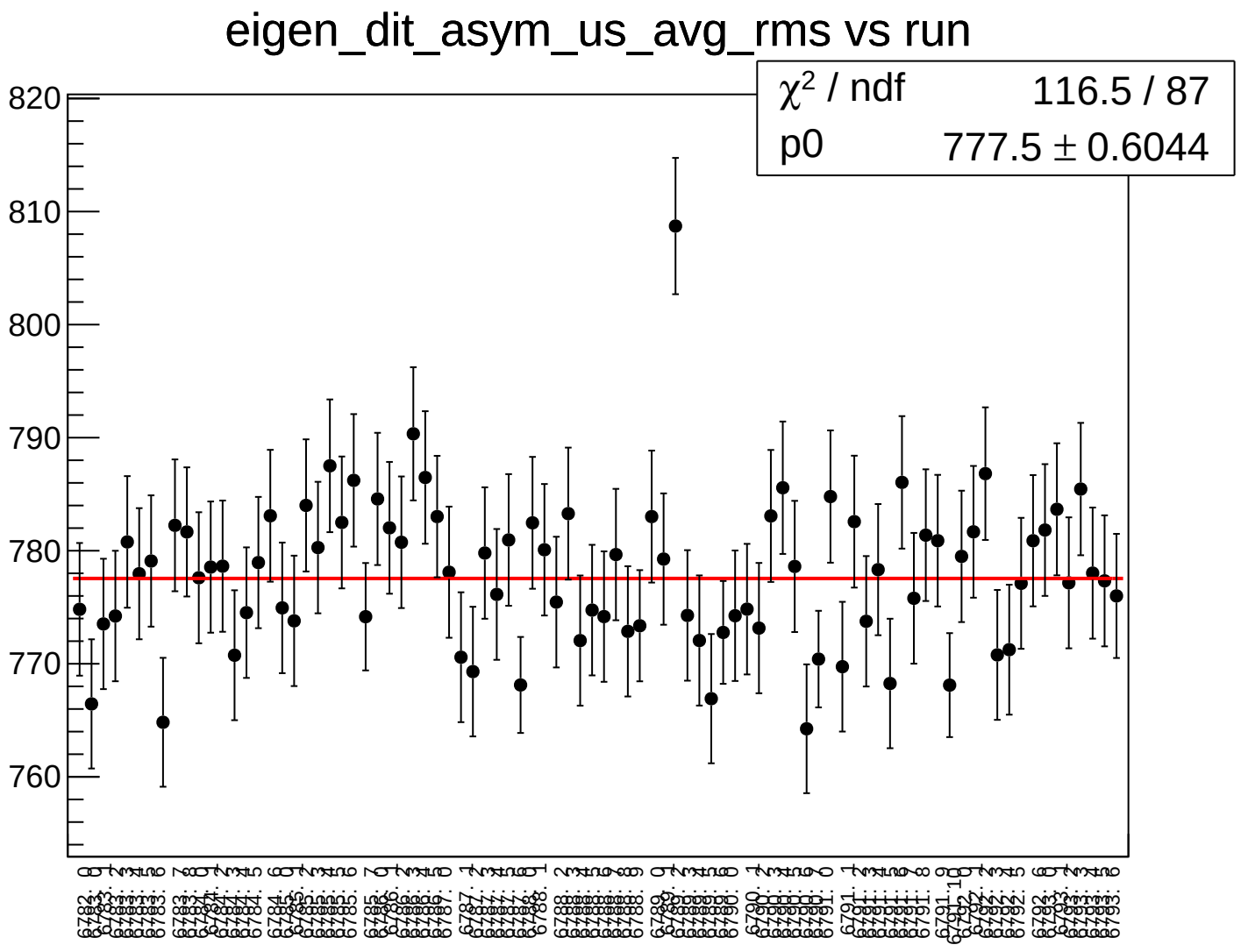

asym_us_avg_dit_correction_mean vs run
χ² / ndf 88.02 / 87
p0 −870.9 ± 1128
pull
Entries 88
Mean 24.05
Std Dev 0

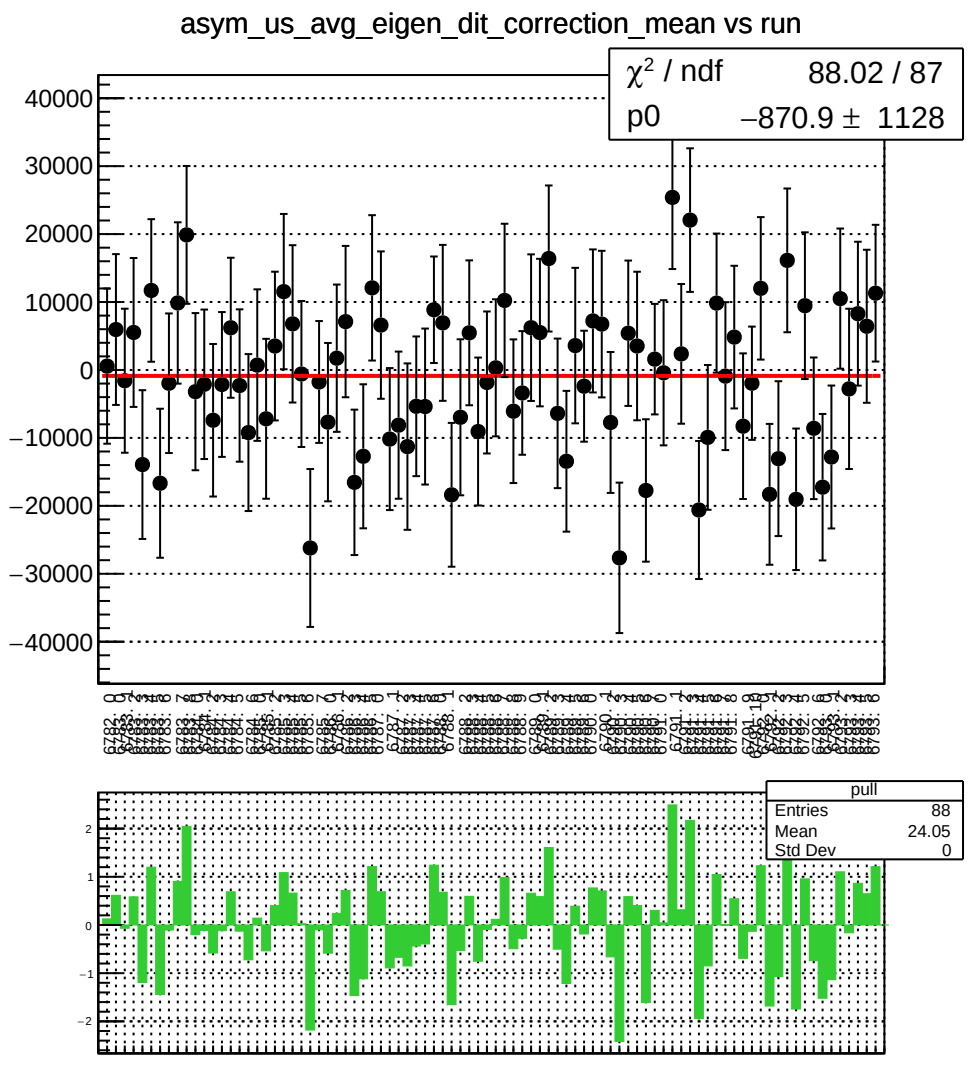

pull1D
Entries 88
Mean −0.008631
Std Dev 1

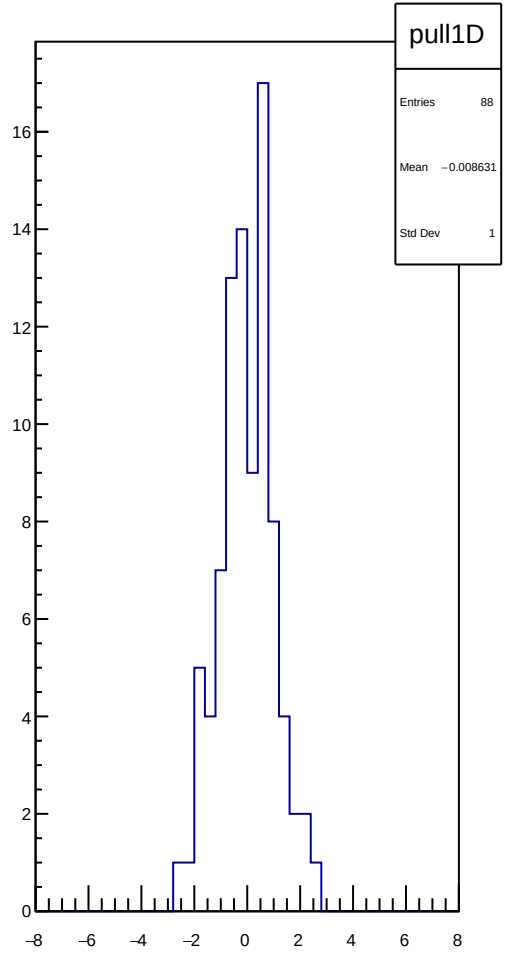

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2713 / 87
p0 1026 ± 0.7979
1150
1100
1050
1000
950

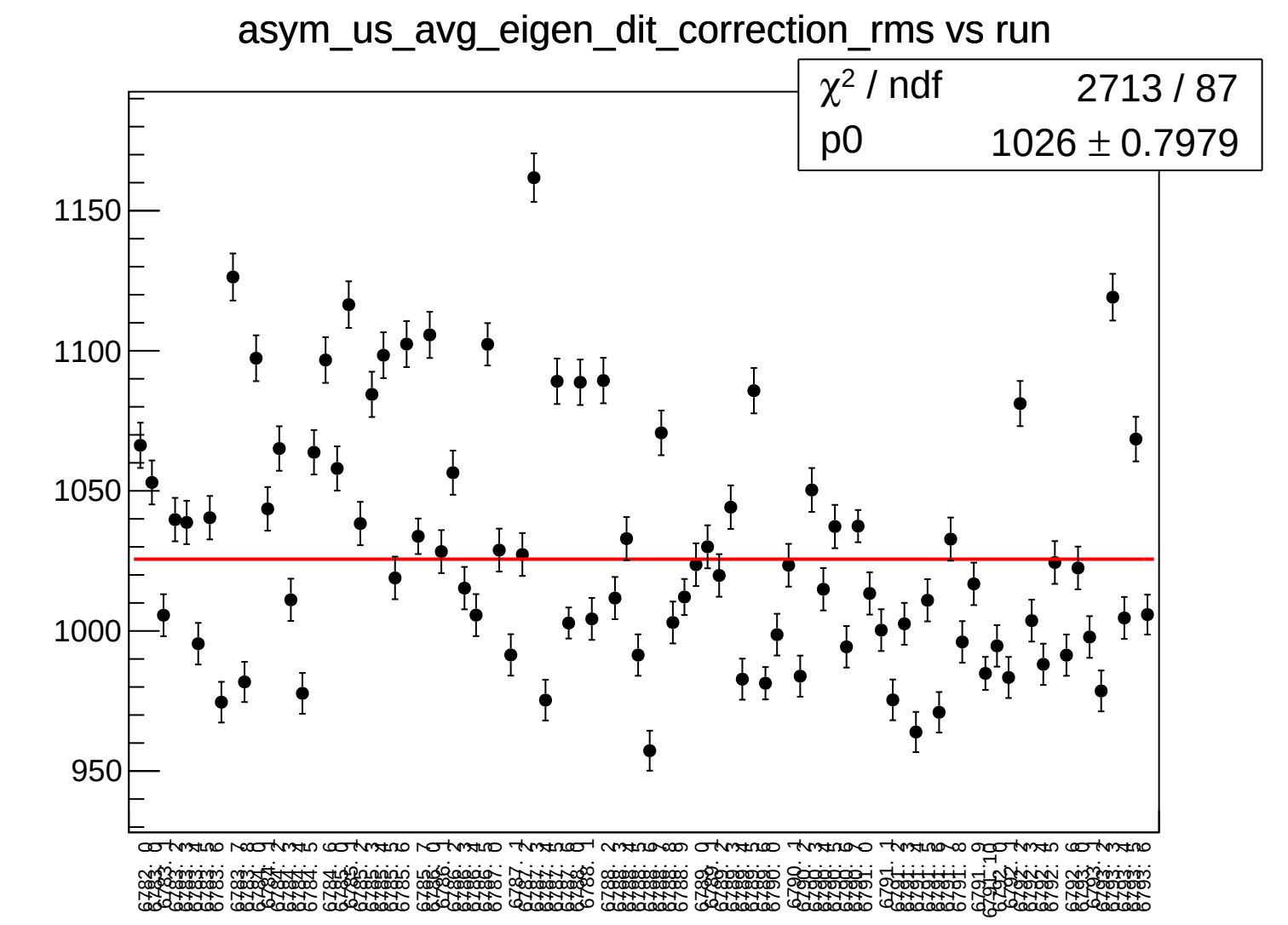

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 85.27 / 87
p0 969.6 ± 854.8
pull
Entries 88
Mean 495.5
Std Dev 0

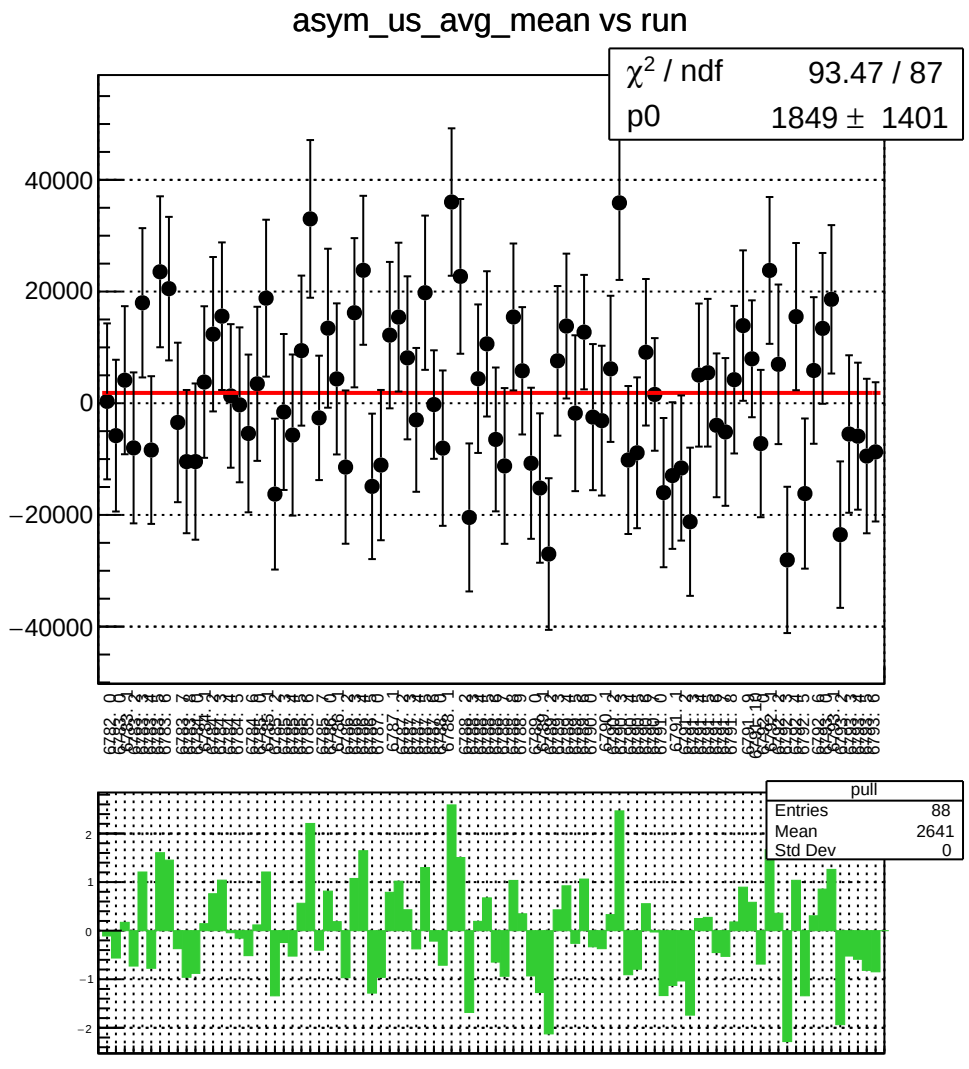

pull1D
Entries 88
Mean −0.01325
Std Dev 0.9843

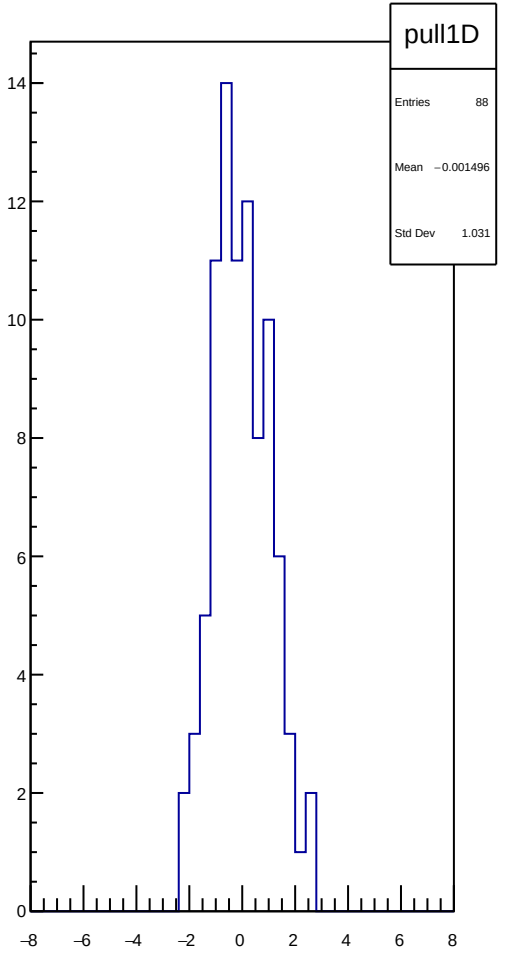

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 116.5 / 87
p0 777.5 ± 0.6044
820
810
800
790
780
770
760

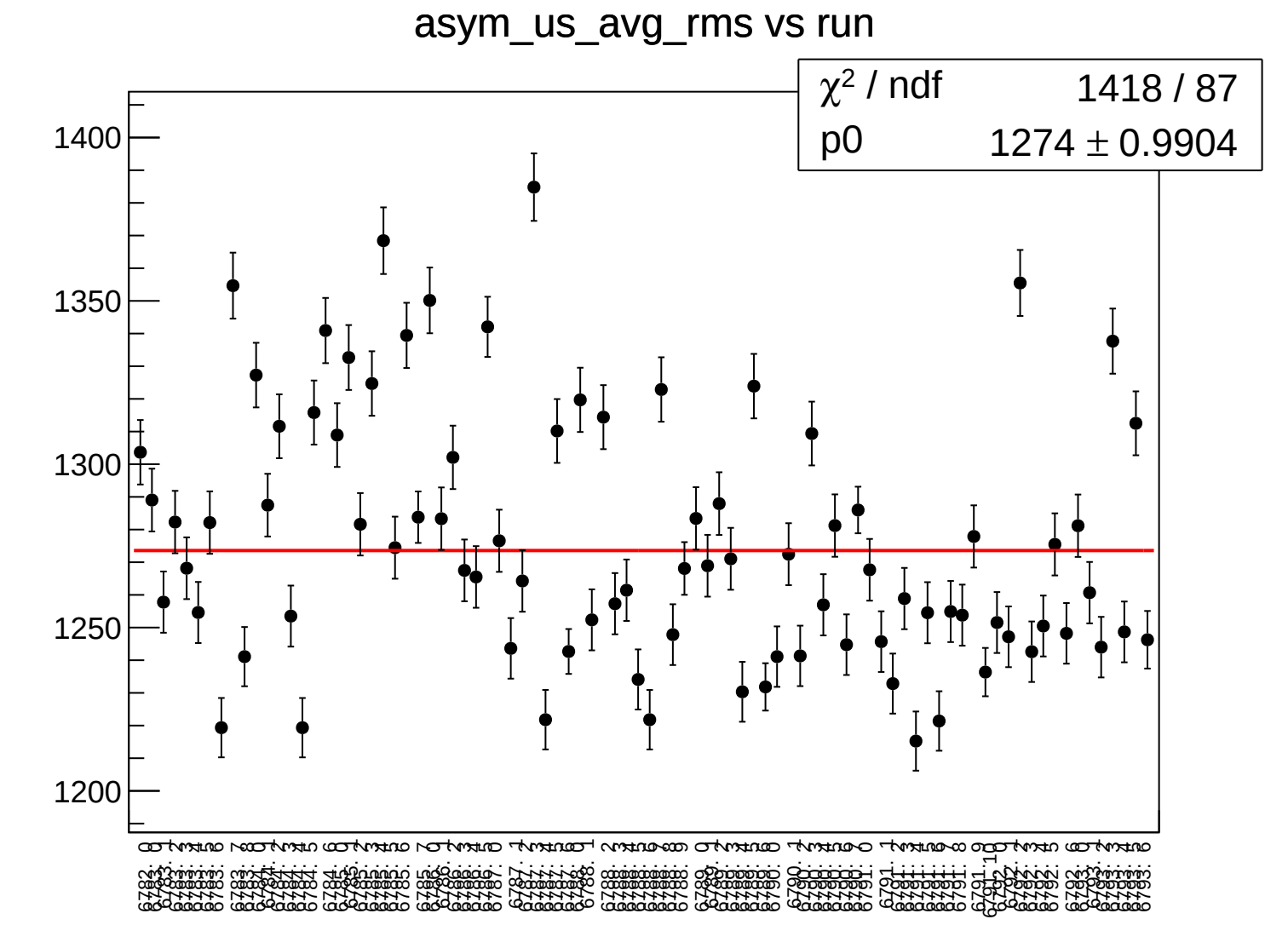

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.02 / 87
p0 −870.9 ± 1128
pull
Entries 88
Mean 24.05
Std Dev 0

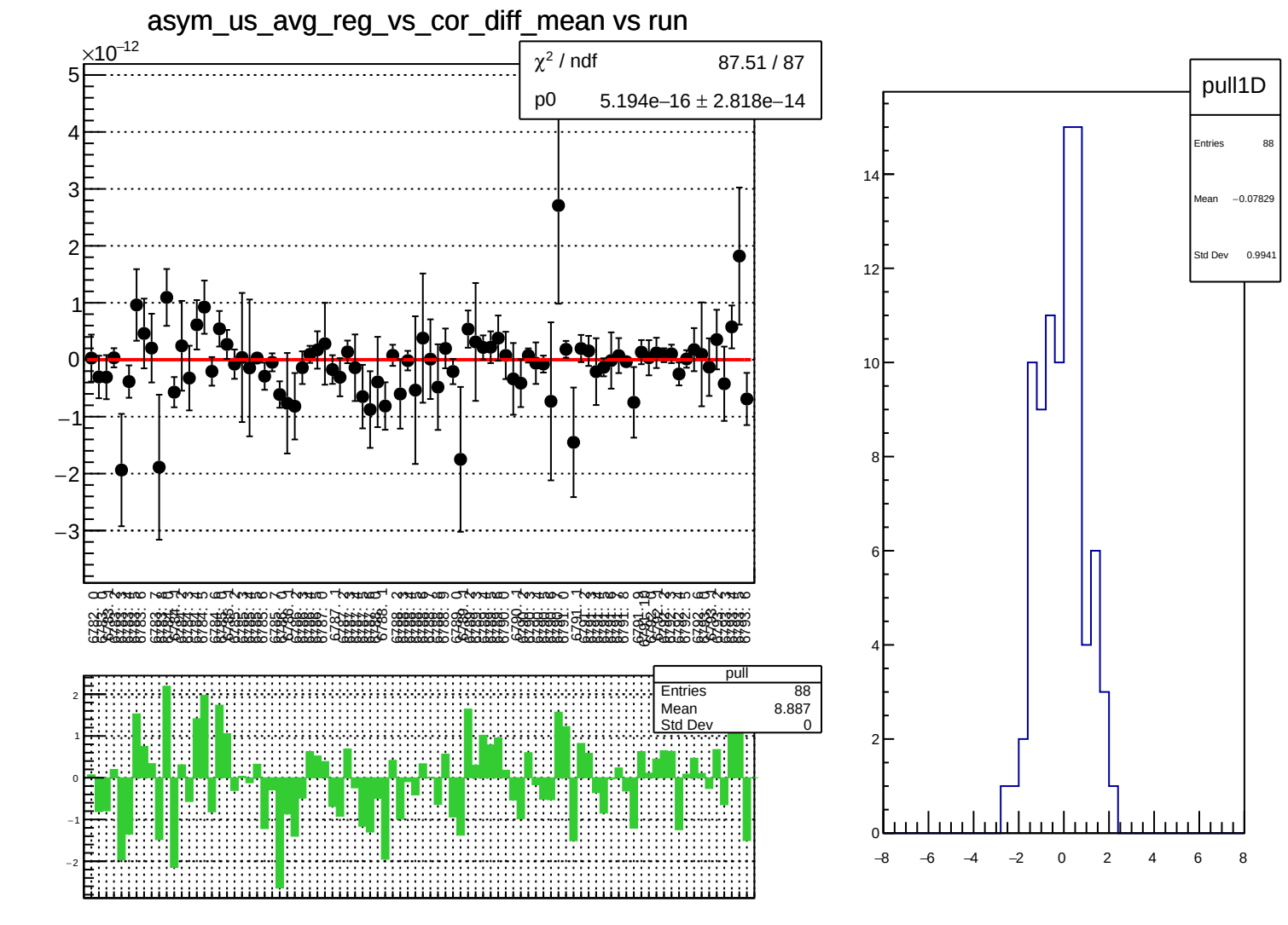

pull1D
Entries 88
Mean −0.008631
Std Dev 1

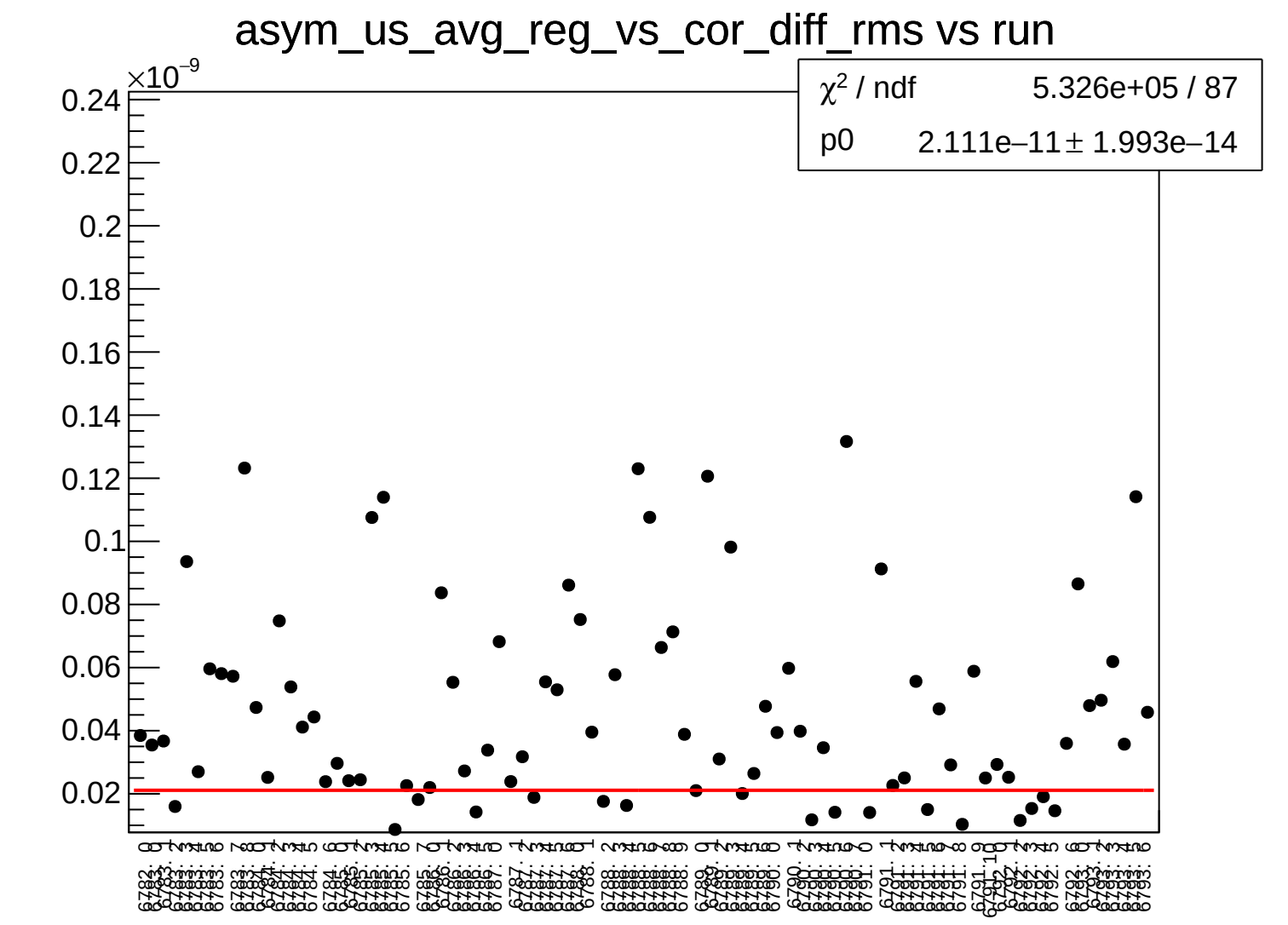

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2713 / 87
p0 1026 ± 0.7979
1150
1100
1050
1000
950

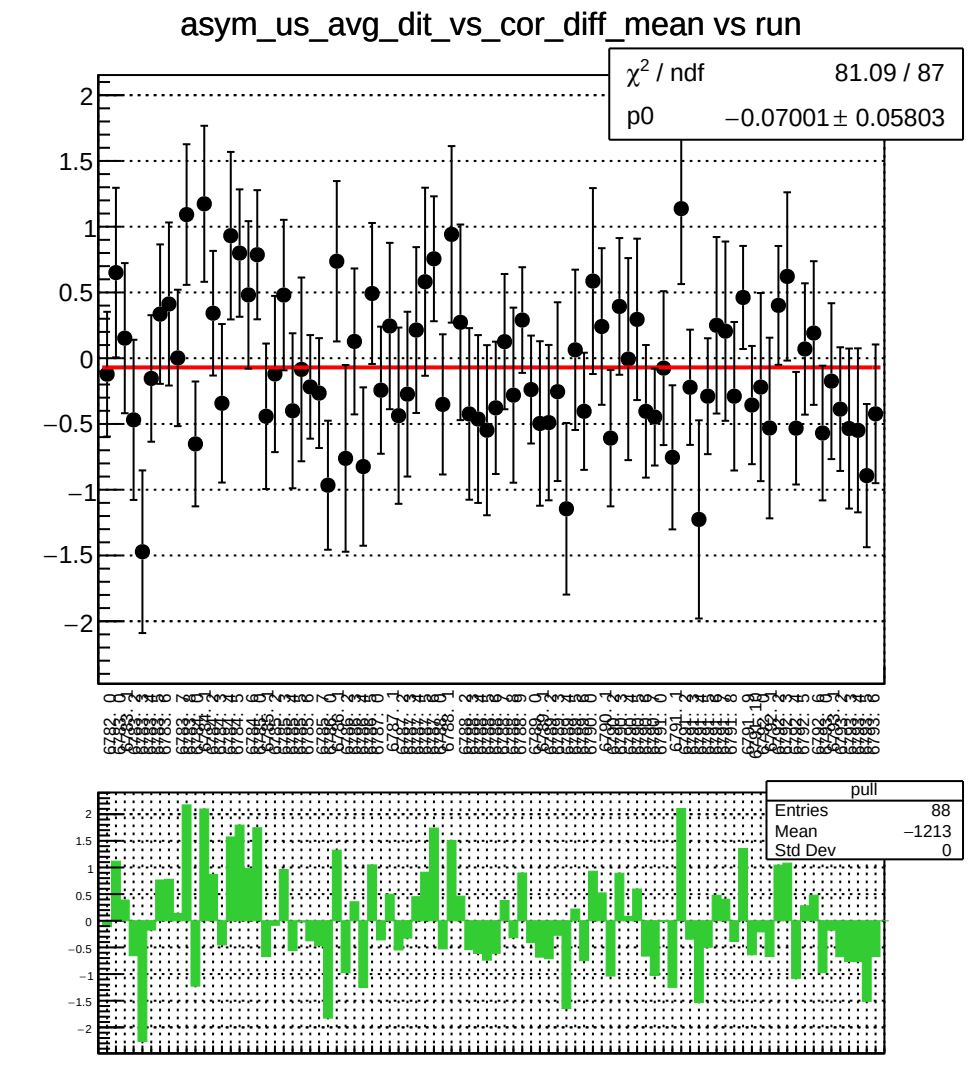

asym_us_avg_mean vs run
χ² / ndf 93.47 / 87
p0 1849 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2641
Std Dev 0
2
1
0
−1
−2

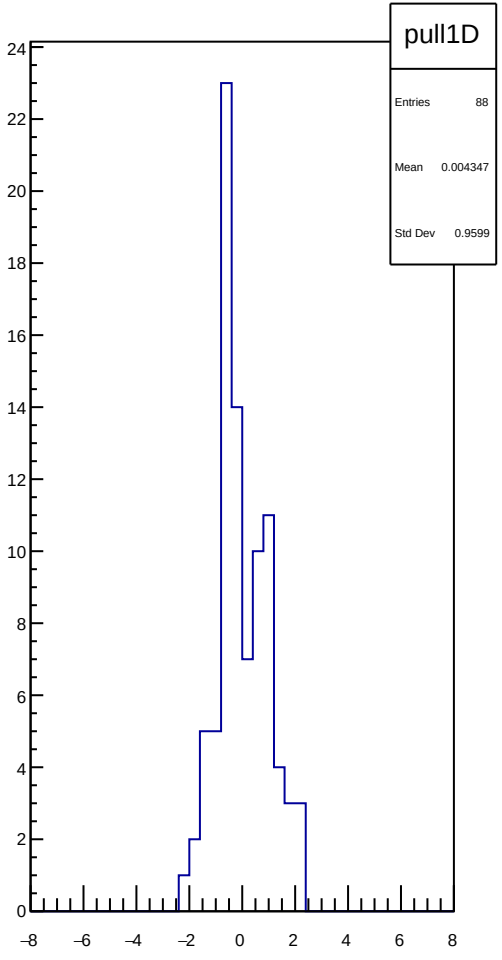

pull1D
Entries 88
Mean −0.001496
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

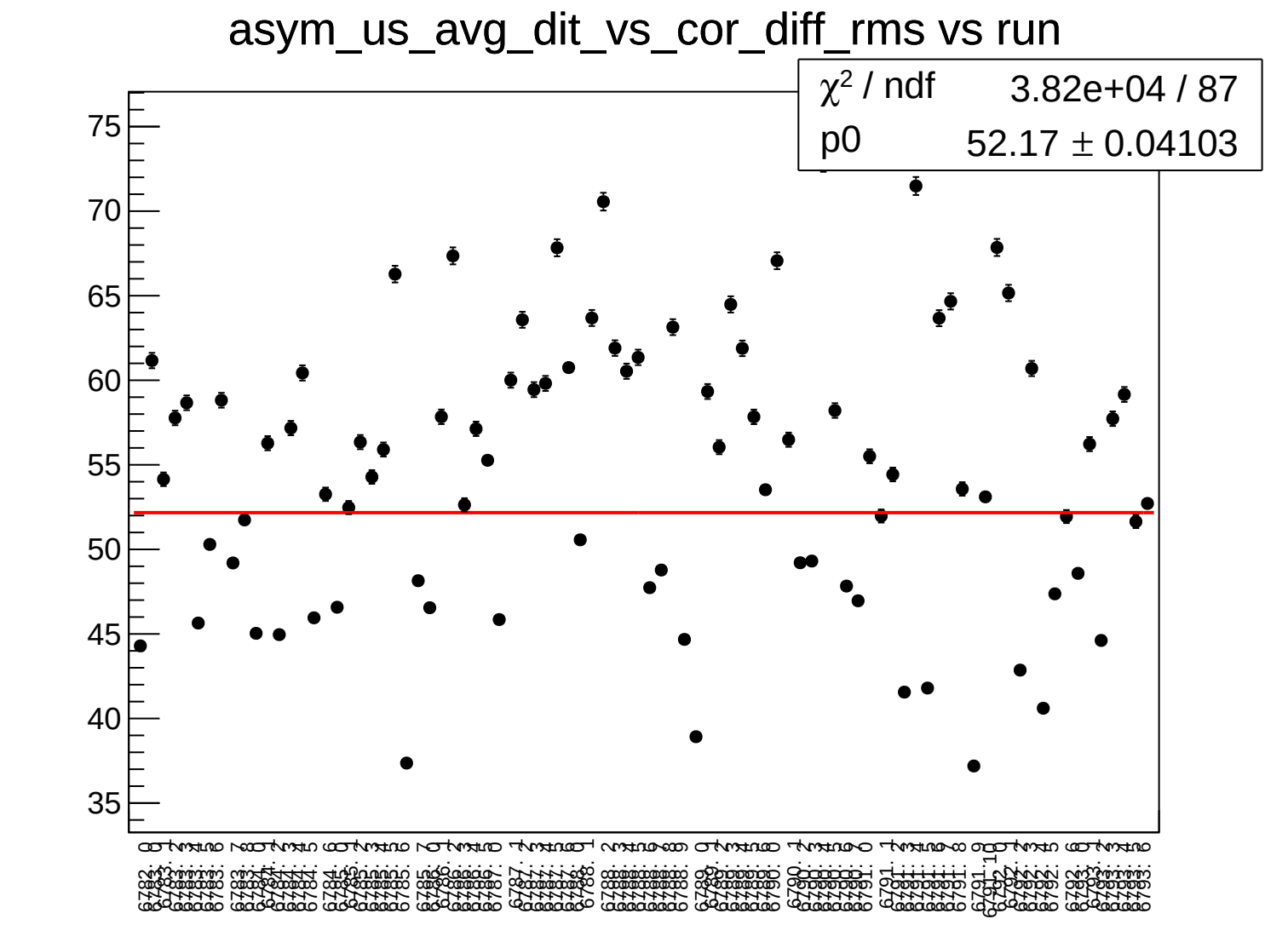

asym_us_avg_rms vs run
χ² / ndf 1418 / 87
p0 1274 ± 0.9904
1400
1350
1300
1250
1200

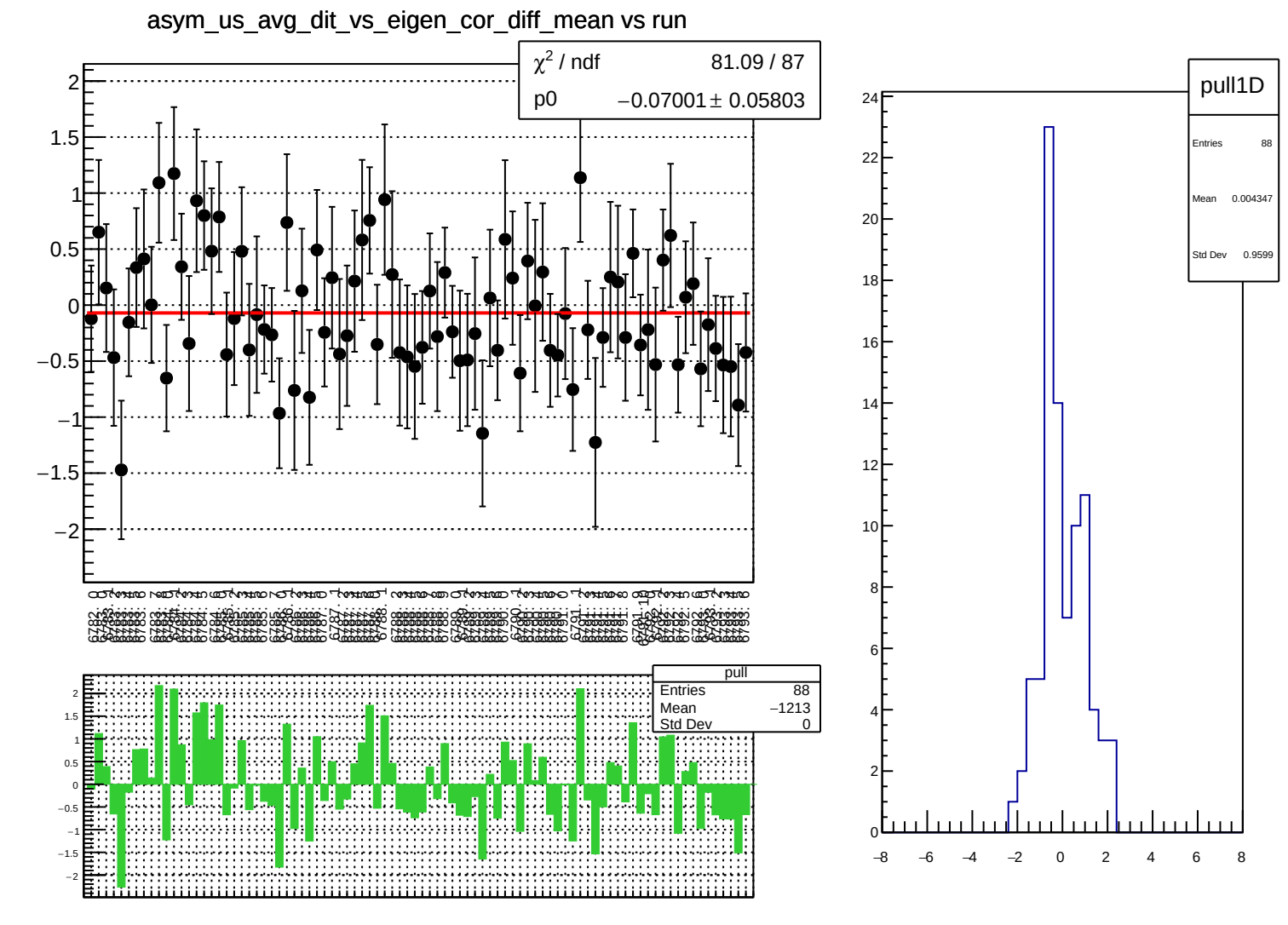

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.51 / 87
p0 5.194e−16 ± 2.818e−14
pull
Entries 88
Mean 8.887
Std Dev 0
pull1D
Entries 88
Mean −0.07829
Std Dev 0.9941

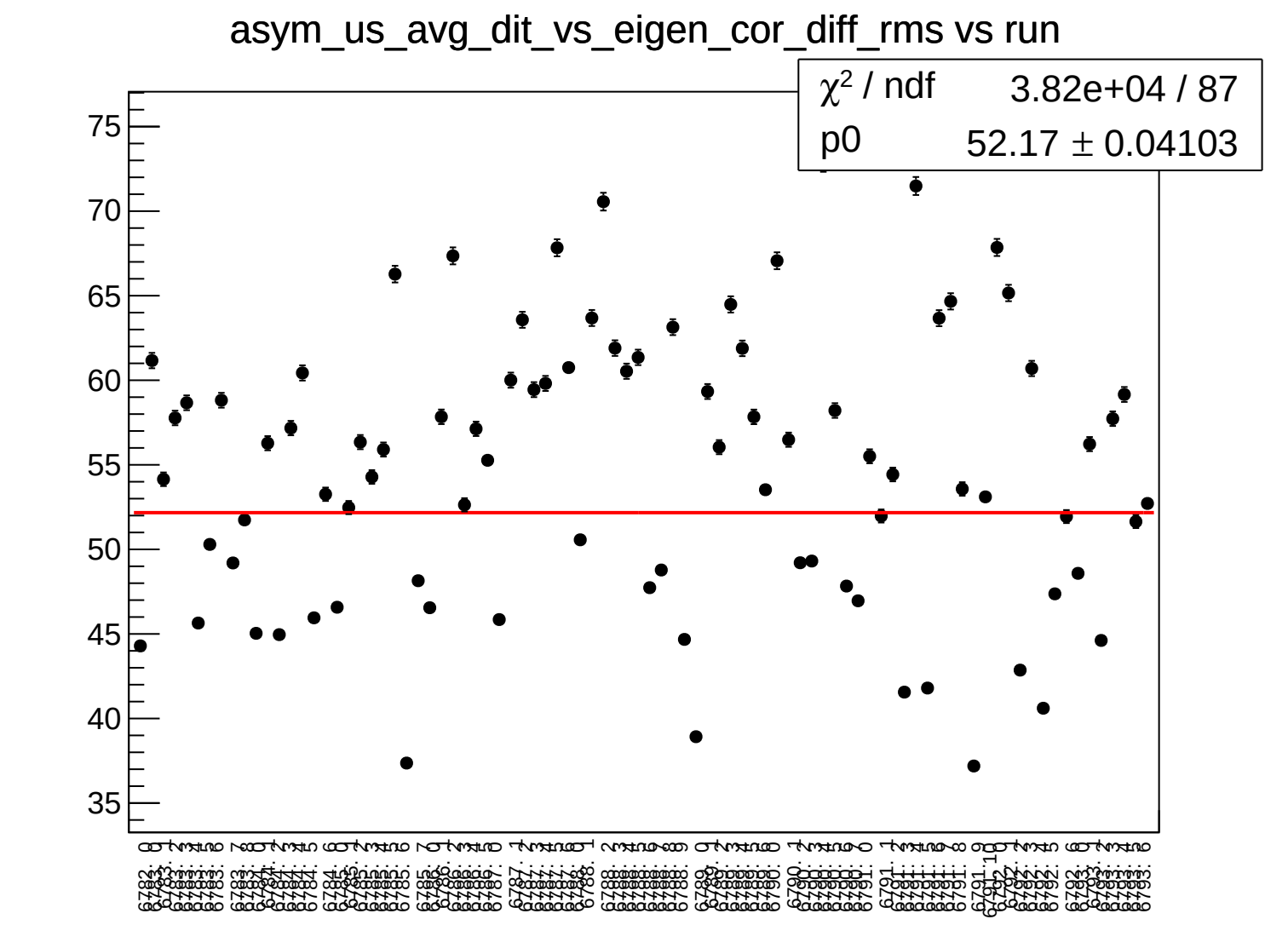

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.326e+05 / 87
p0 2.111e−11 ± 1.993e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

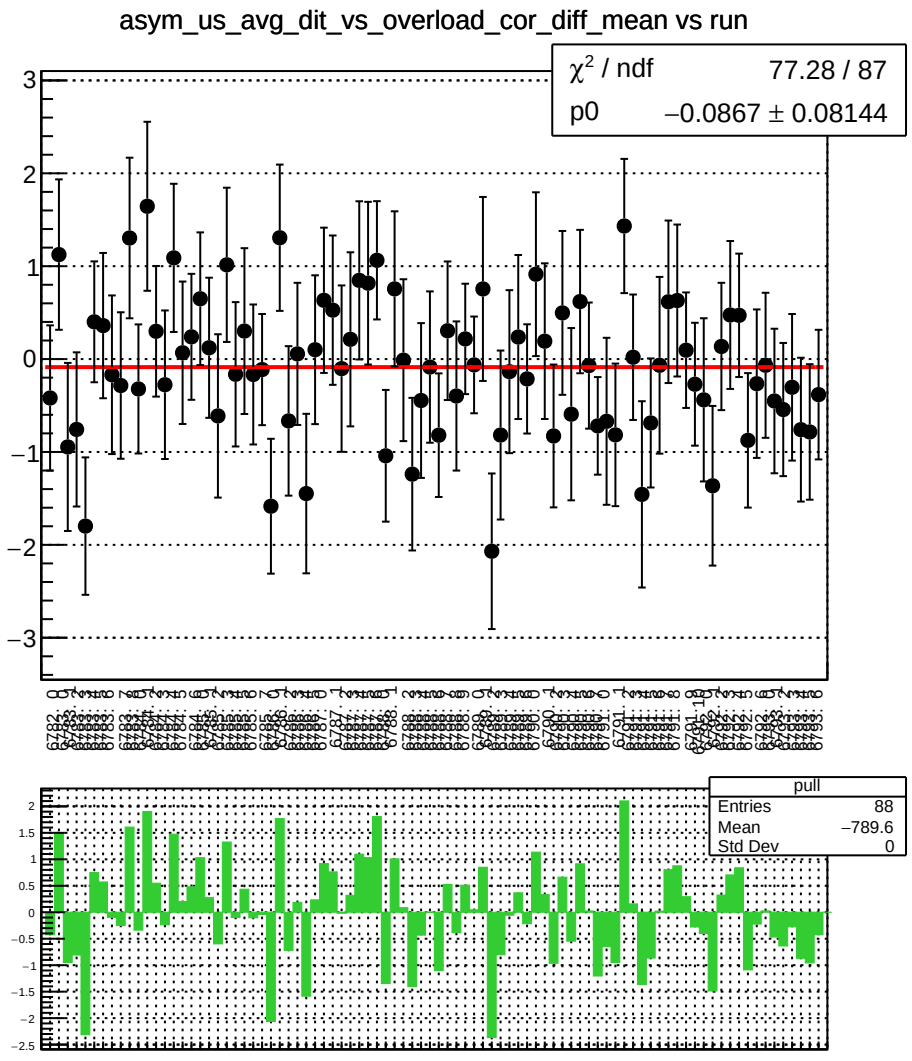

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.09 / 87
p0 −0.07001 ± 0.05803
pull
Entries 88
Mean −1213
Std Dev 0

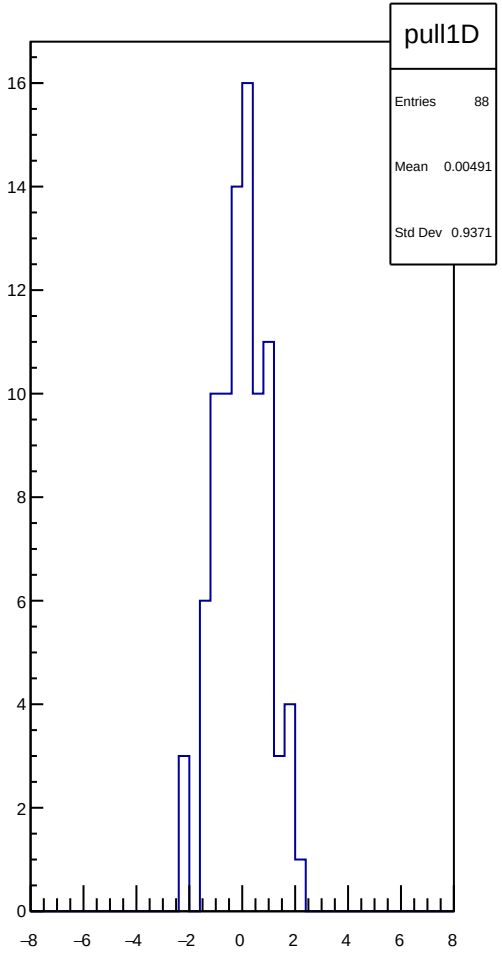

pull1D
Entries 88
Mean 0.004347
Std Dev 0.9599

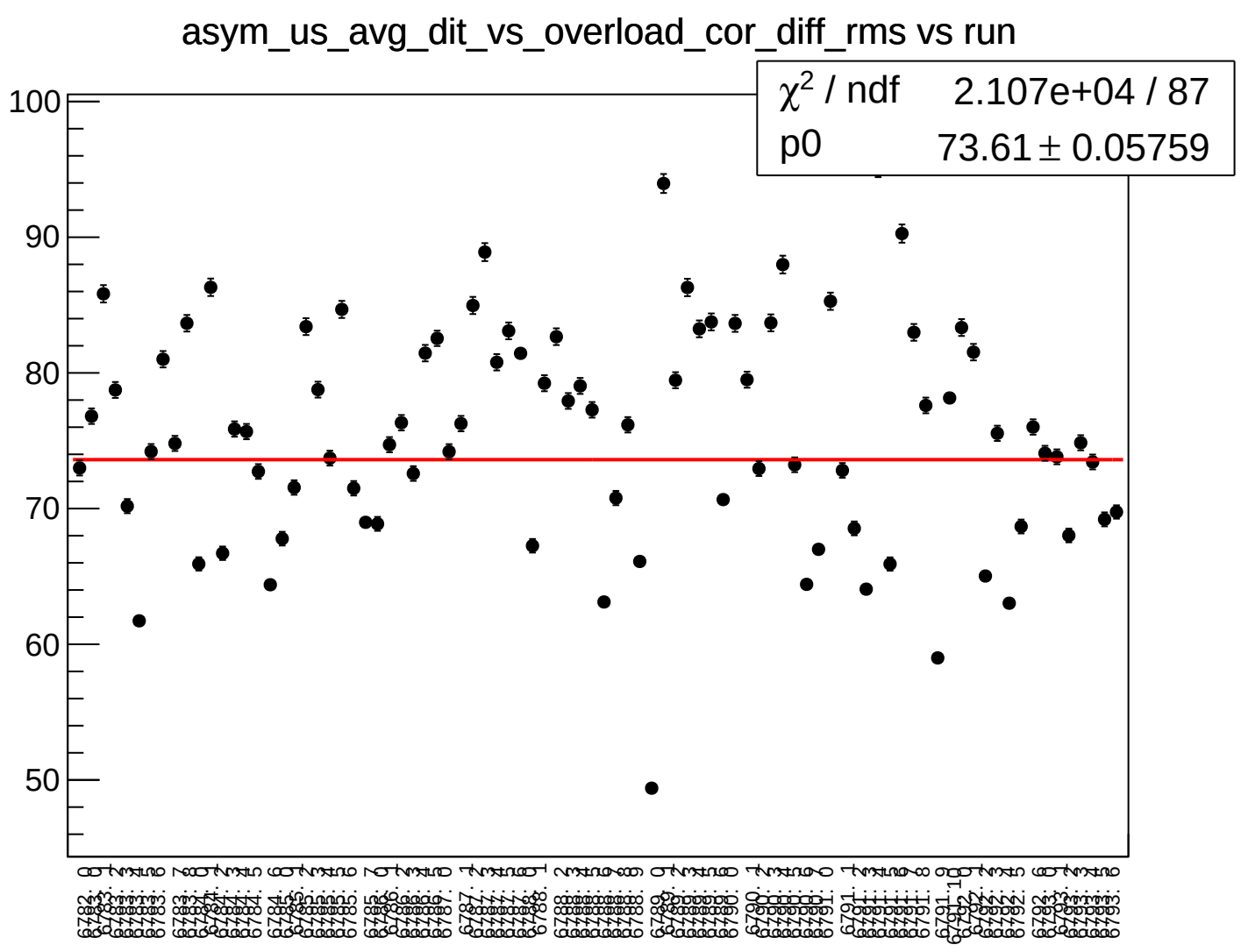

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.82e+04 / 87
p0 52.17 ± 0.04103
75
70
65
60
55
50
45
40
35

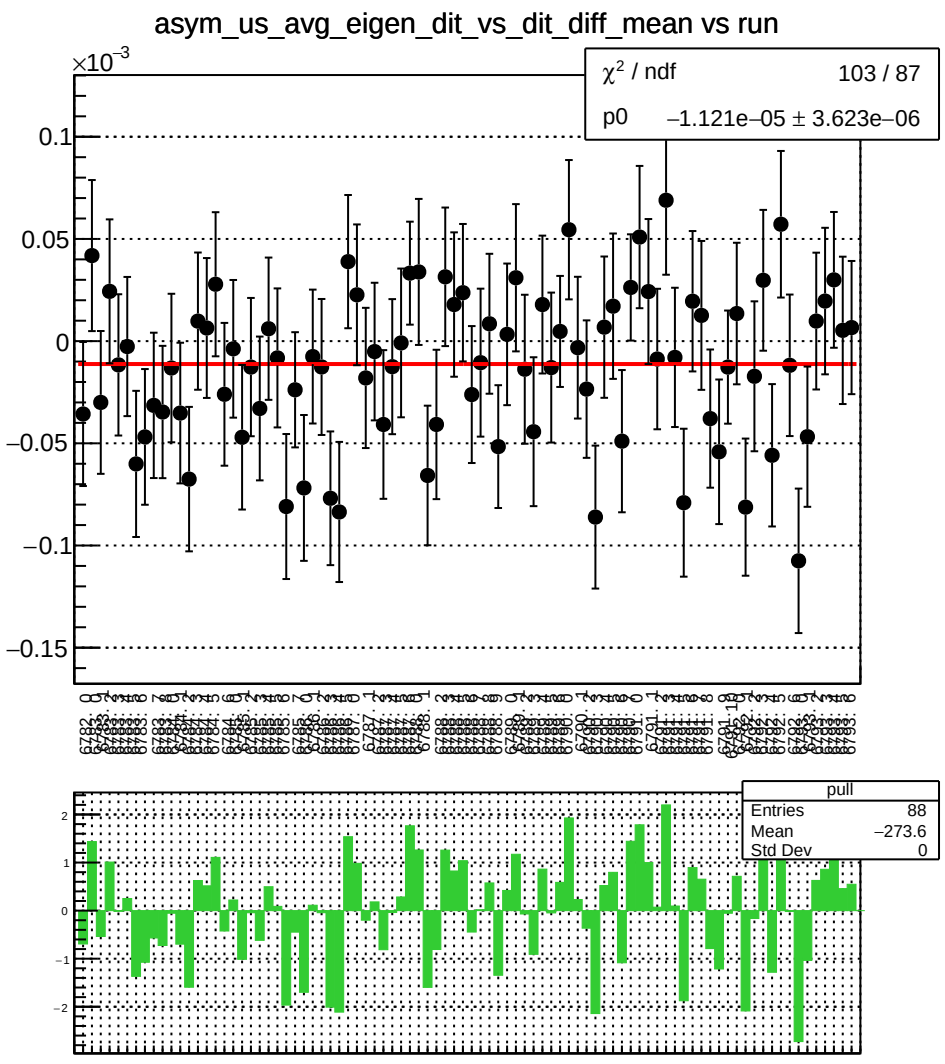

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.09 / 87
p0 −0.07001 ± 0.05803
pull
Entries 88
Mean −1213
Std Dev 0
pull1D
Entries 88
Mean 0.004347
Std Dev 0.9599

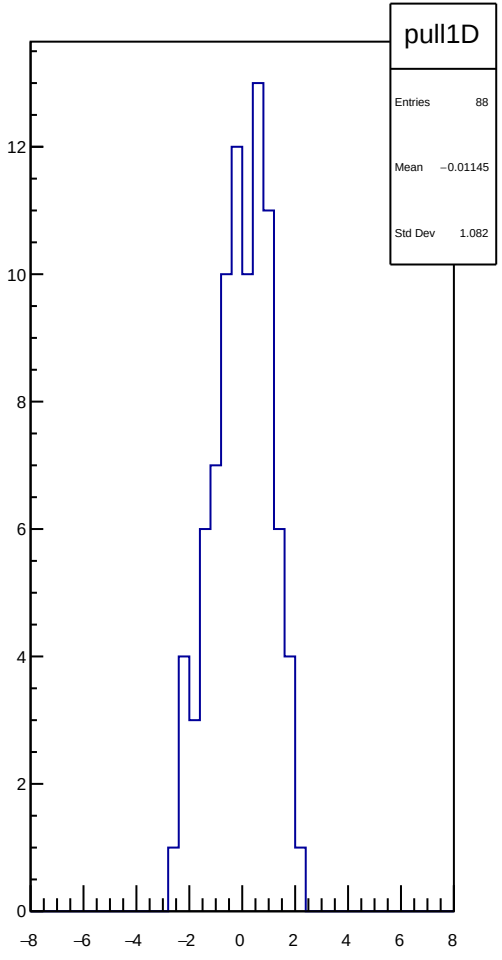

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.82e+04 / 87
p0 52.17 ± 0.04103
75
70
65
60
55
50
45
40
35

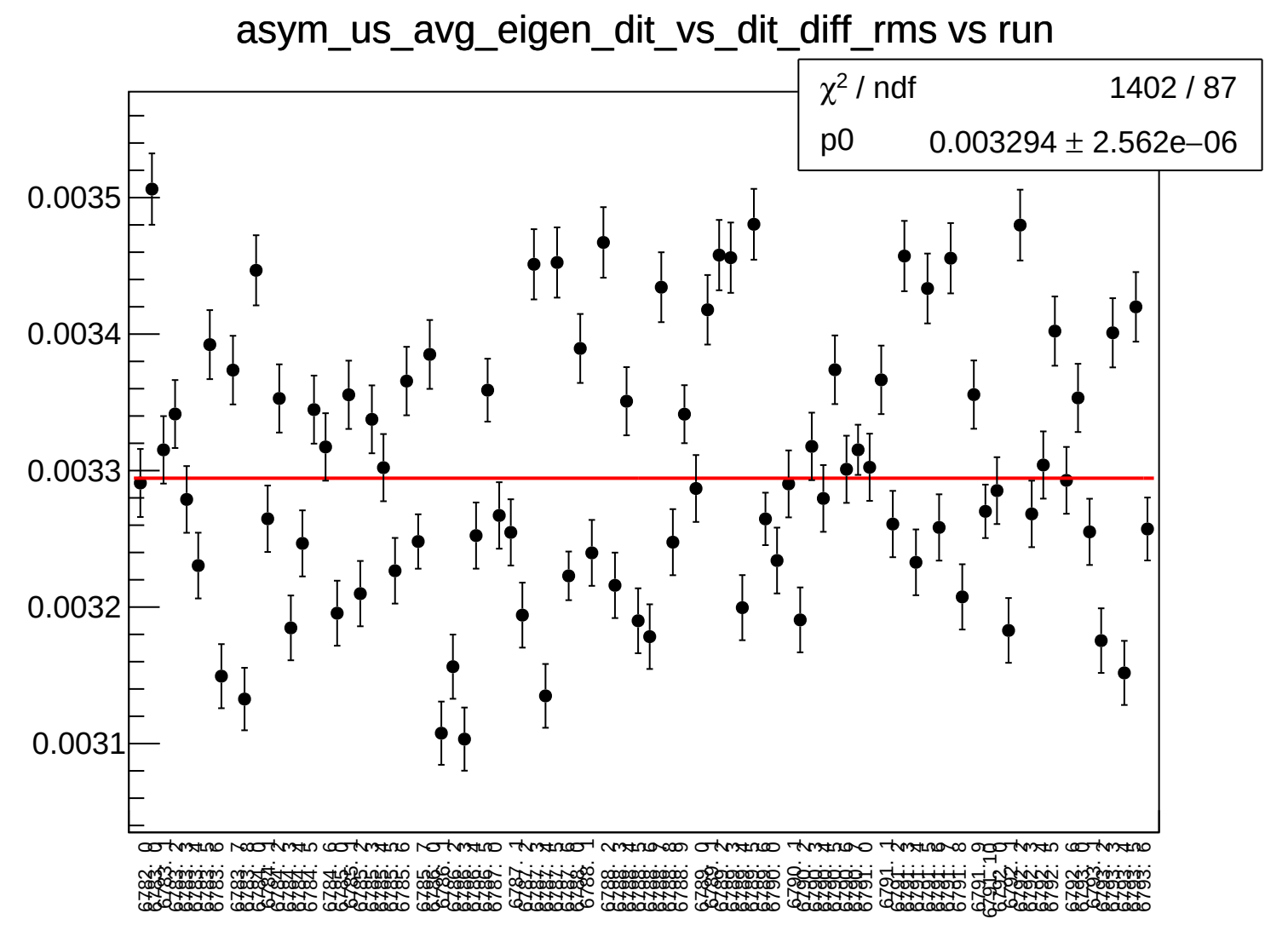

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 77.28 / 87
p0 −0.0867 ± 0.08144
pull
Entries 88
Mean −789.6
Std Dev 0

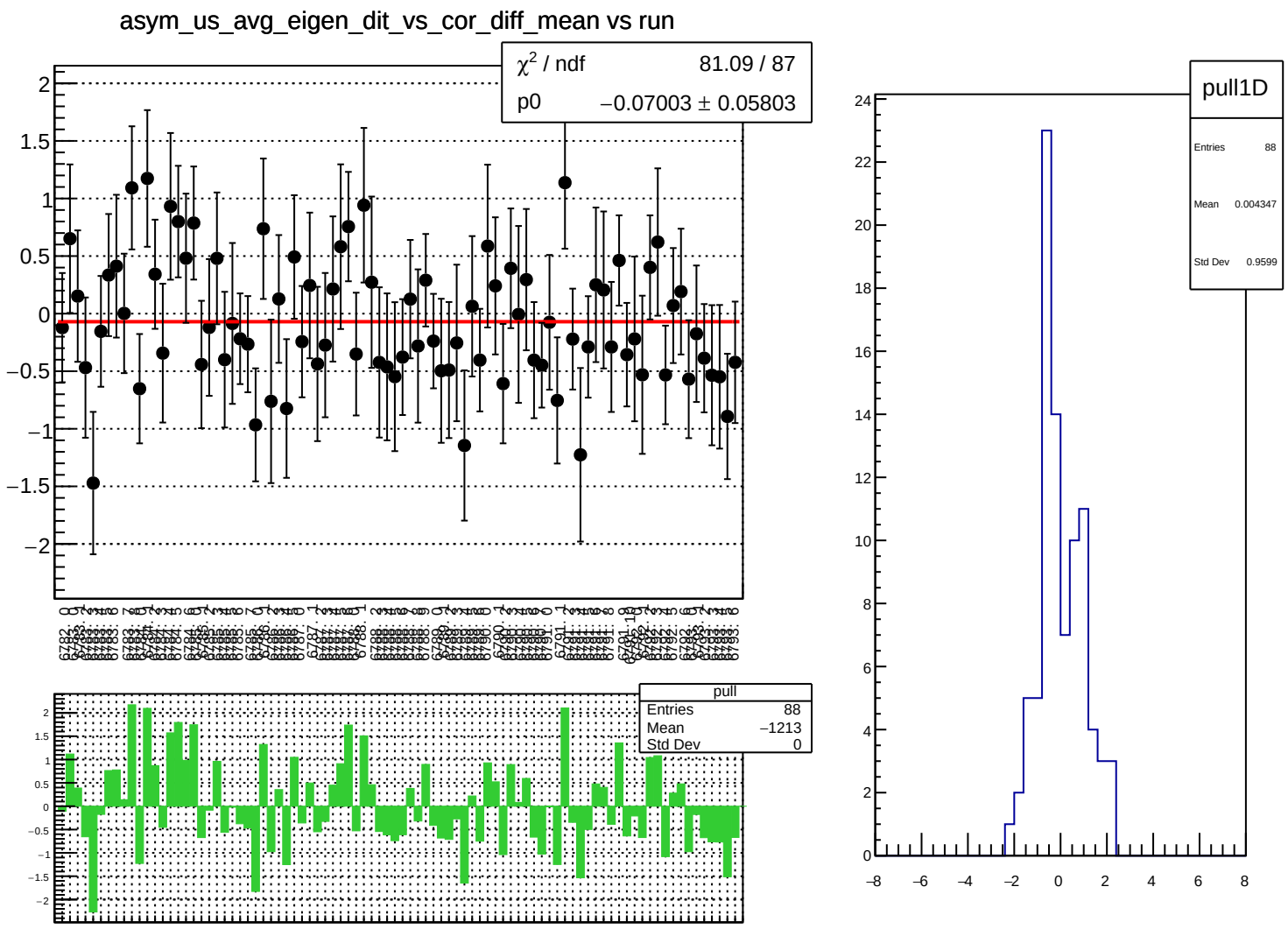

pull1D
Entries 88
Mean 0.00491
Std Dev 0.9371

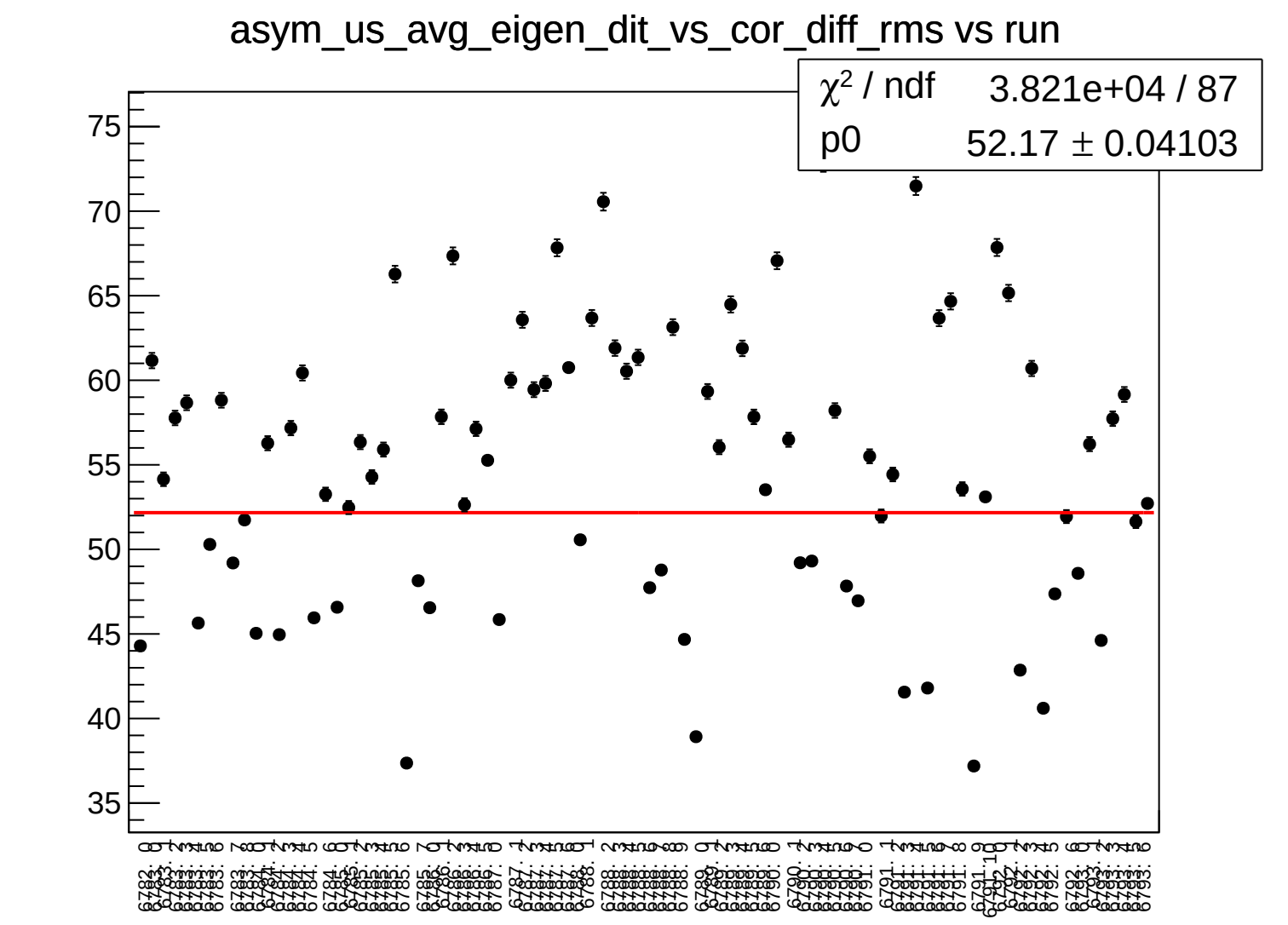

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.107e+04 / 87
p0 73.61 ± 0.05759
100
90
80
70
60
50

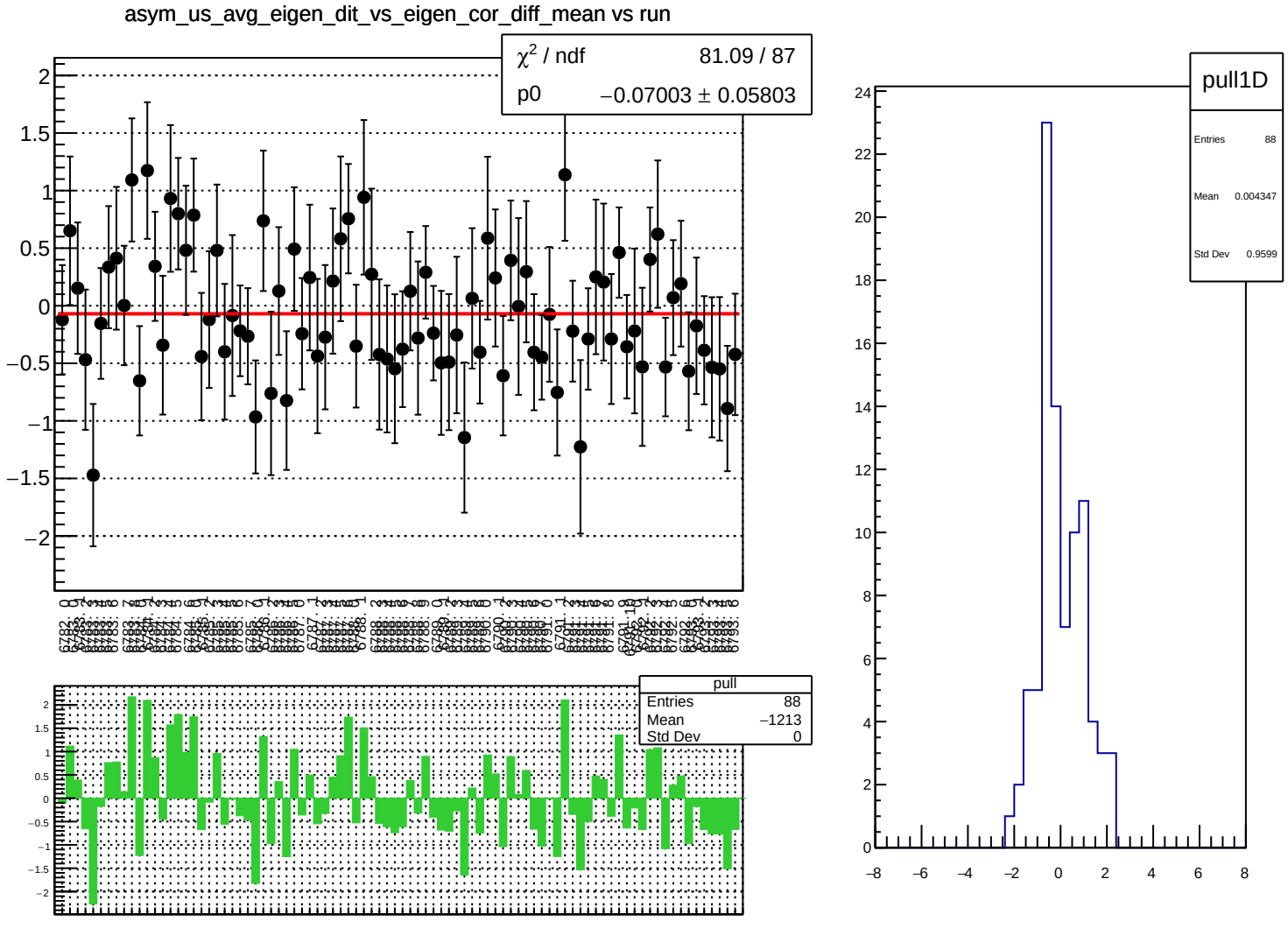

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103 / 87
p0 −1.121e−05 ± 3.623e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −273.6
Std Dev 0
2
1
0
−1
−2

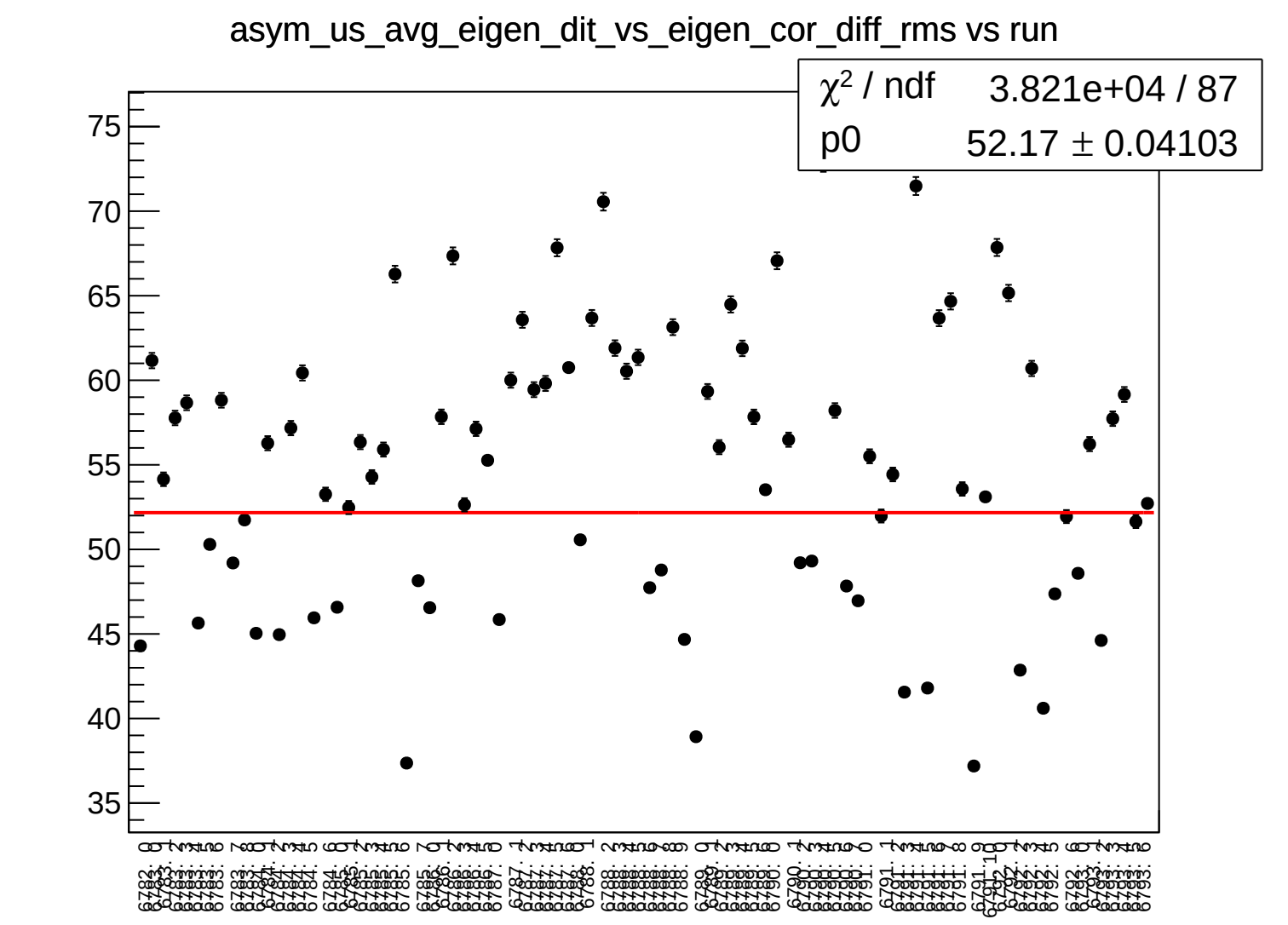

pull1D
Entries 88
Mean −0.01145
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

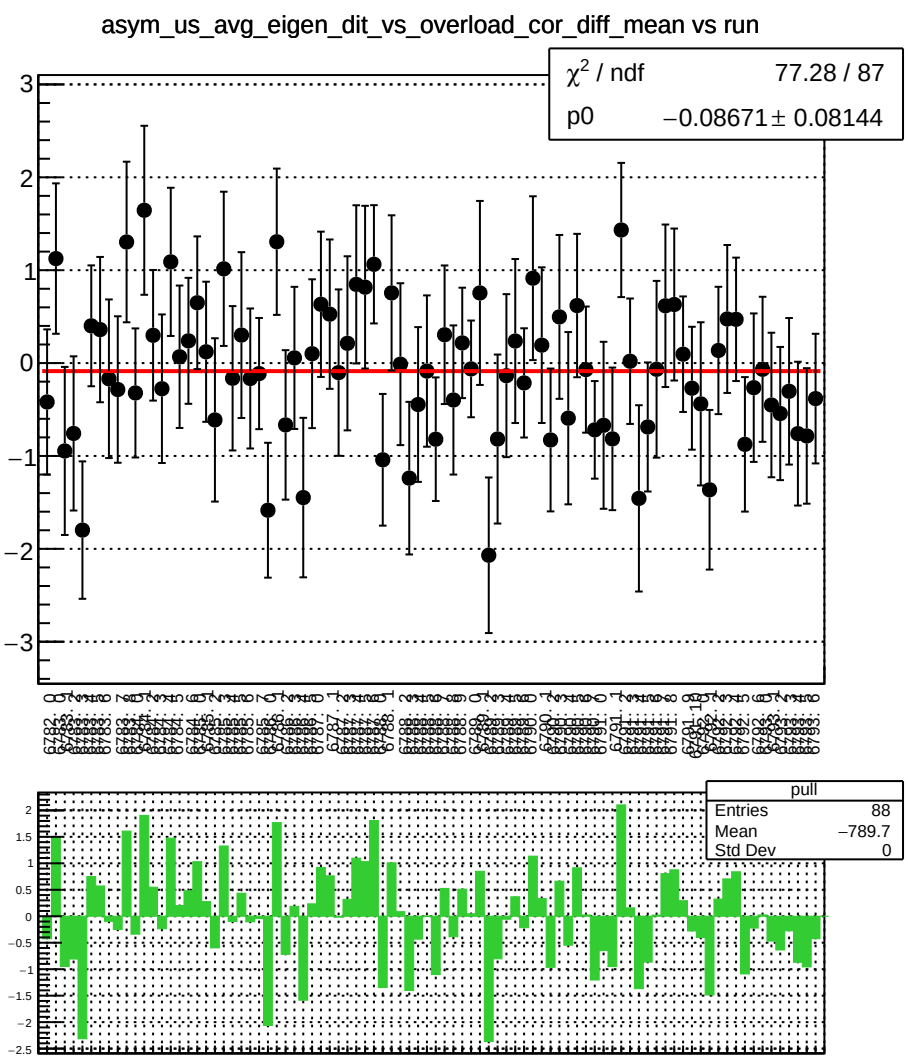

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1402 / 87
p0 0.003294 ± 2.562e−06
0.0035
0.0034
0.0033
0.0032
0.0031

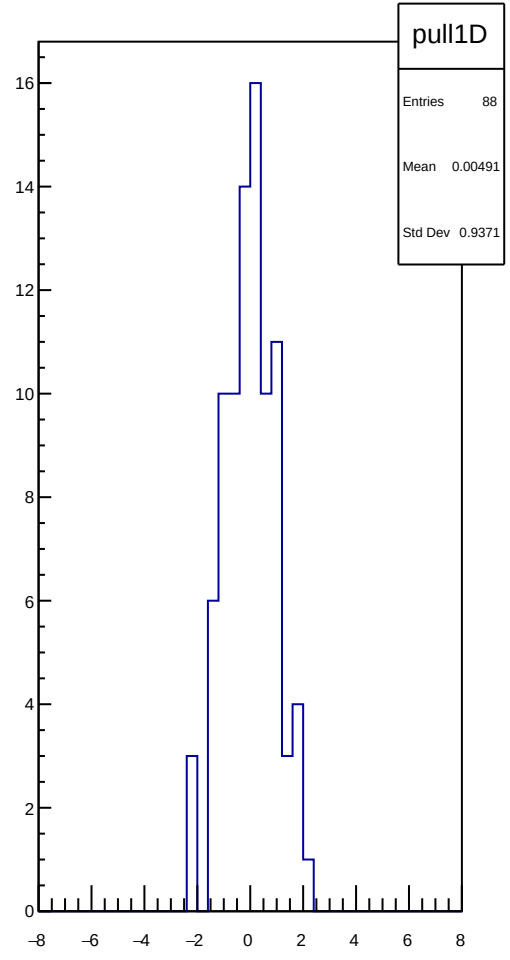

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.09 / 87
p0 −0.07003 ± 0.05803
pull
Entries 88
Mean −1213
Std Dev 0
pull1D
Entries 88
Mean 0.004347
Std Dev 0.9599

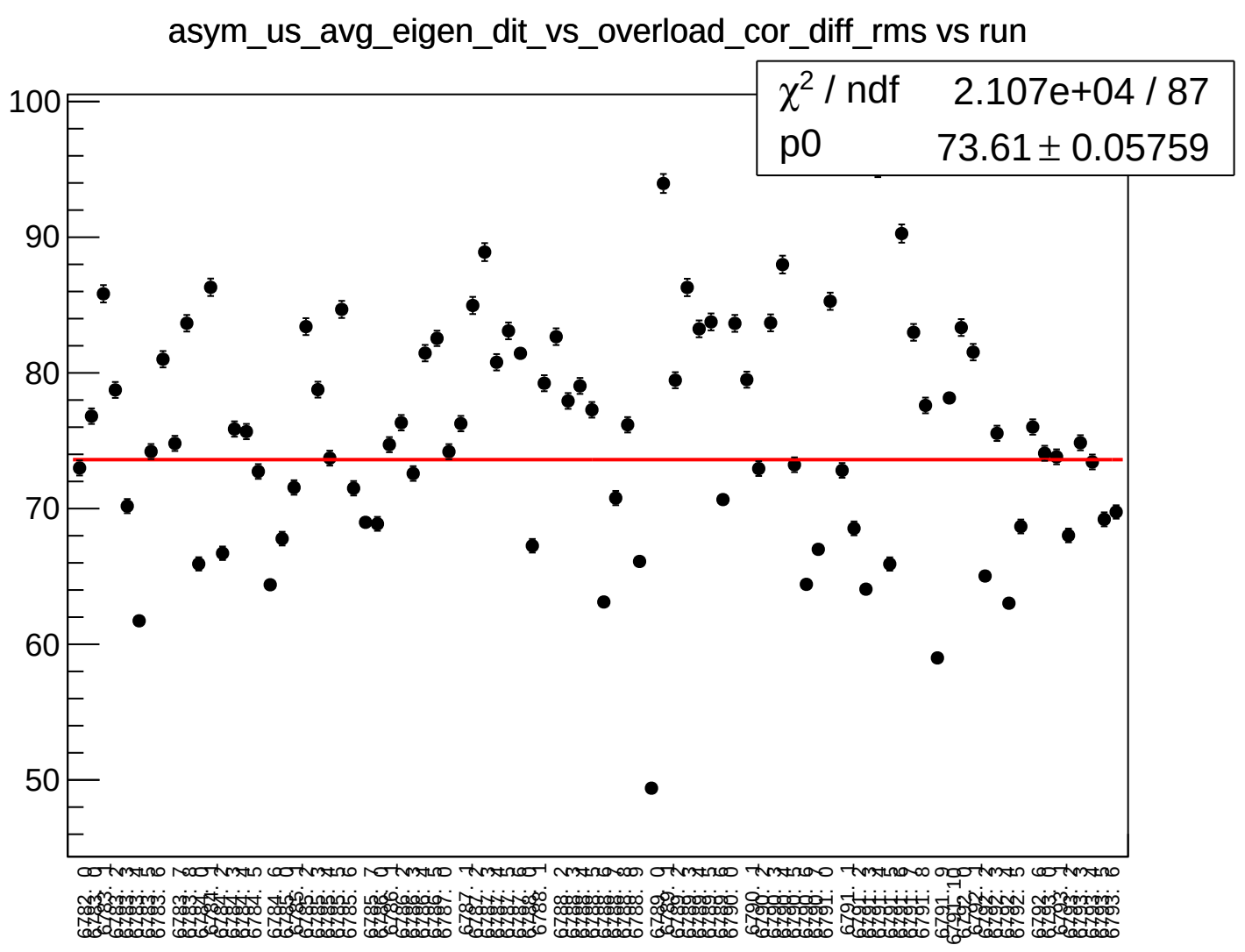

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.821e+04 / 87
p0 52.17 ± 0.04103
75
70
65
60
55
50
45
40
35

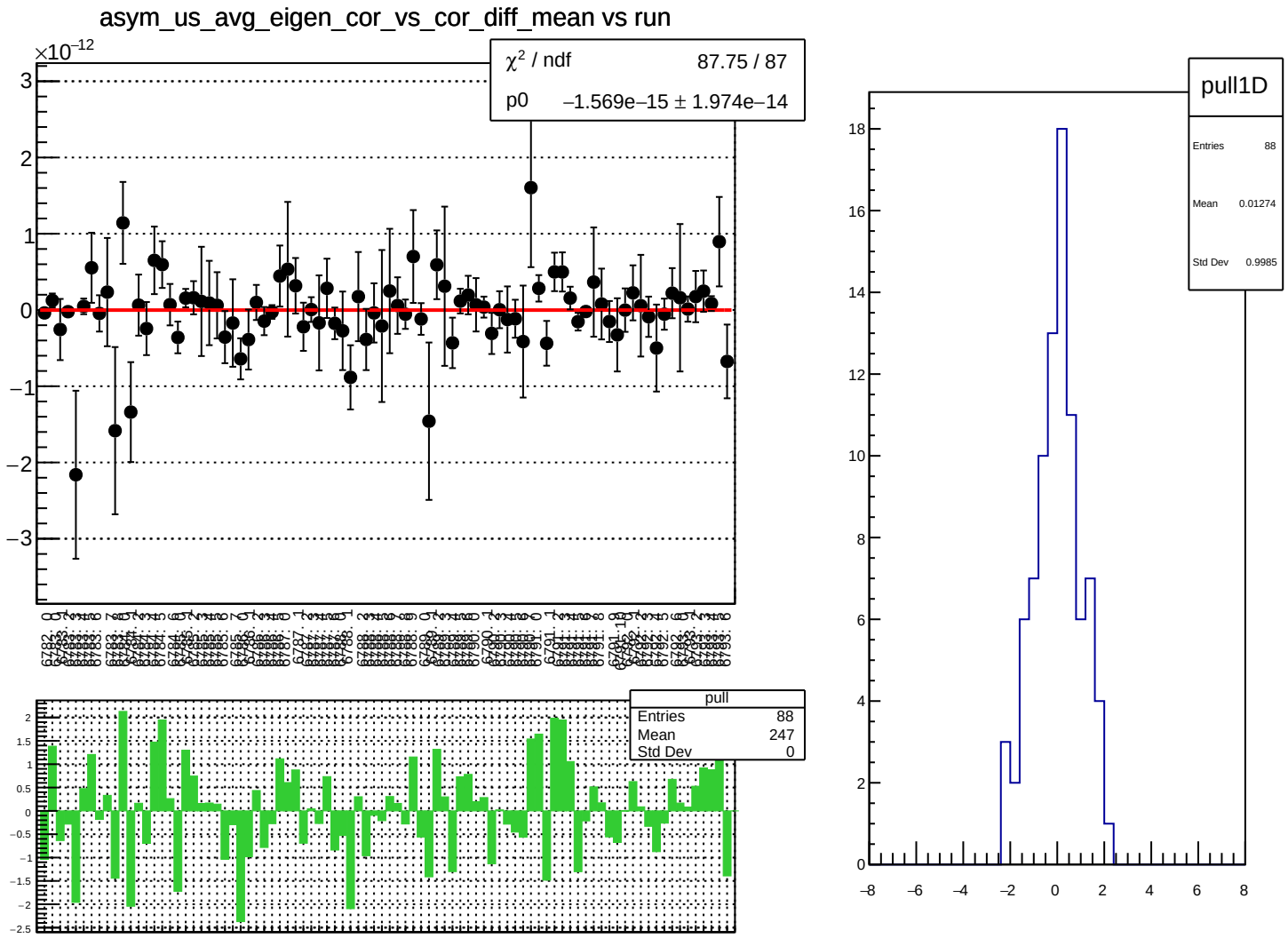

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.09 / 87
p0 −0.07003 ± 0.05803
pull
Entries 88
Mean −1213
Std Dev 0
pull1D
Entries 88
Mean 0.004347
Std Dev 0.9599

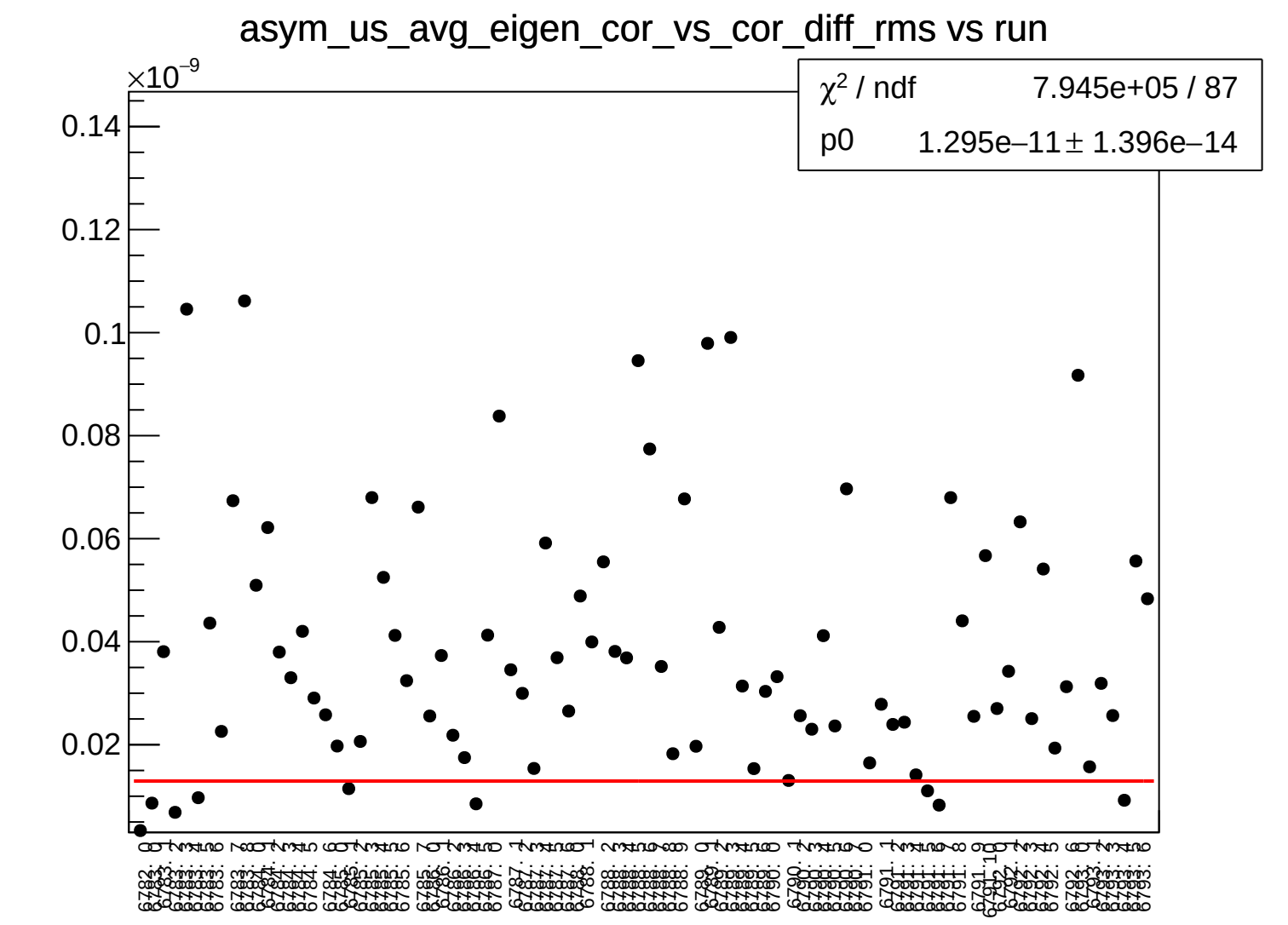

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.821e+04 / 87
p0 52.17 ± 0.04103
75
70
65
60
55
50
45
40
35

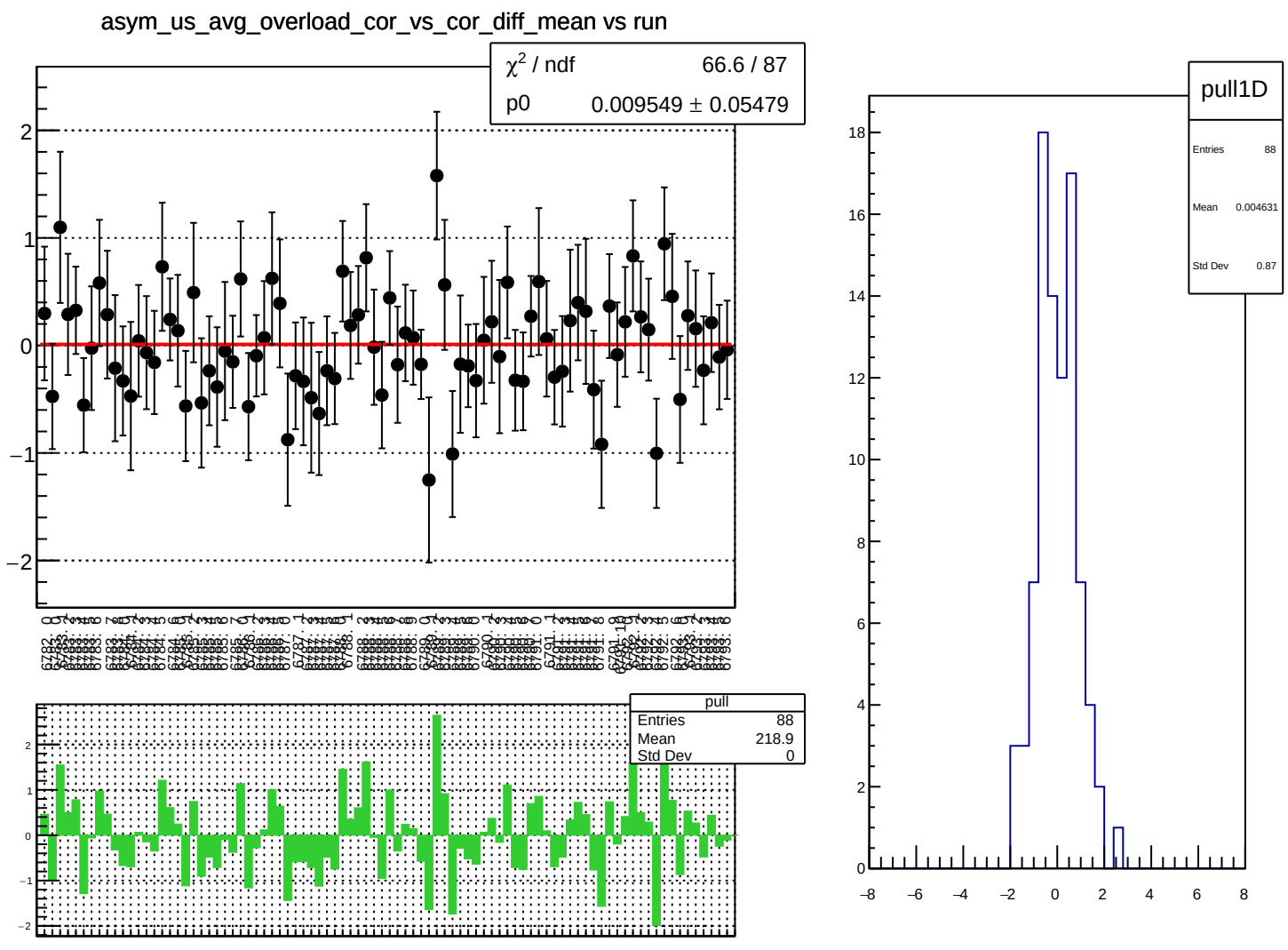

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 77.28 / 87
p0 −0.08671 ± 0.08144
pull
Entries 88
Mean −789.7
Std Dev 0

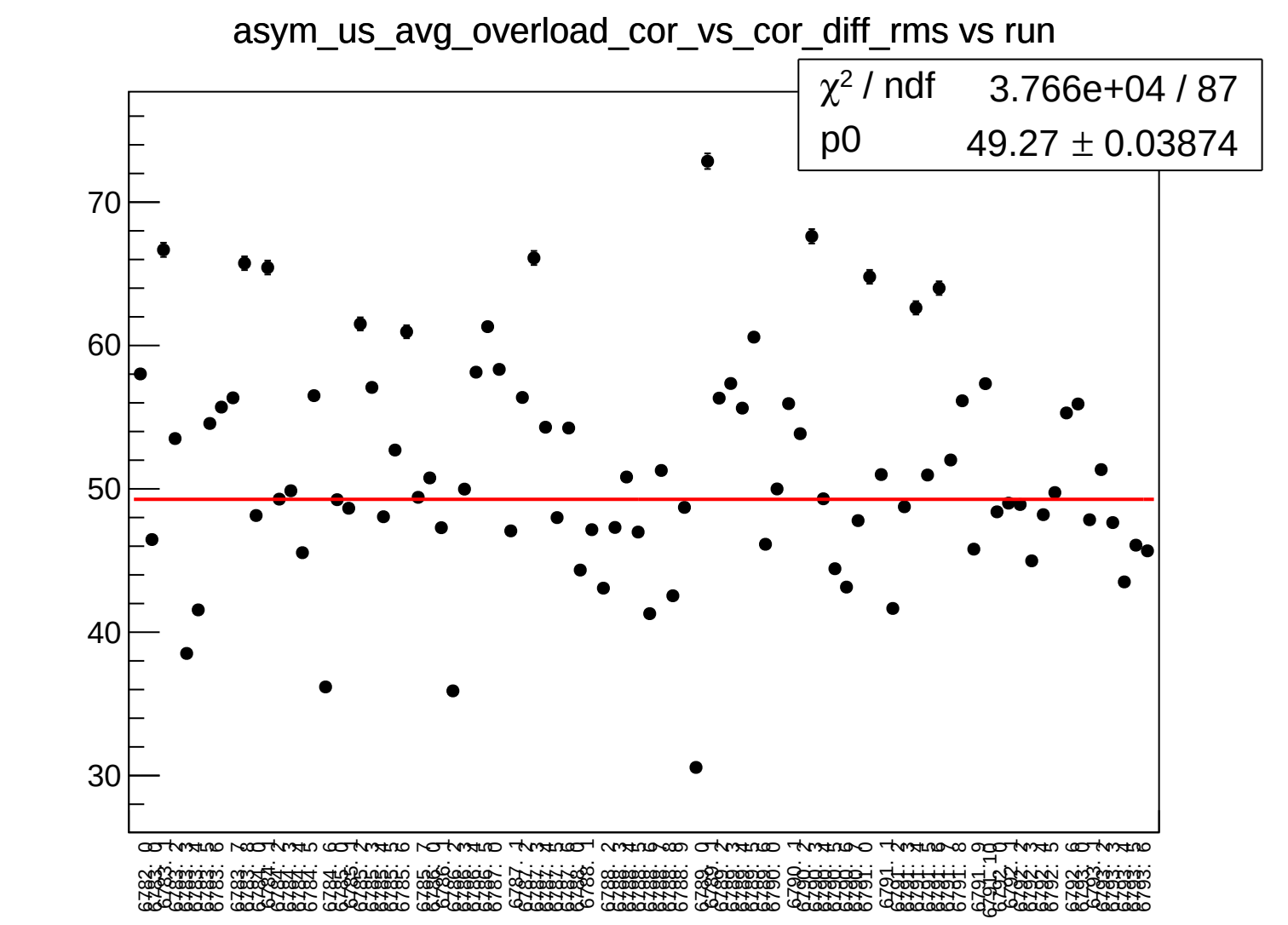

pull1D
Entries 88
Mean 0.00491
Std Dev 0.9371

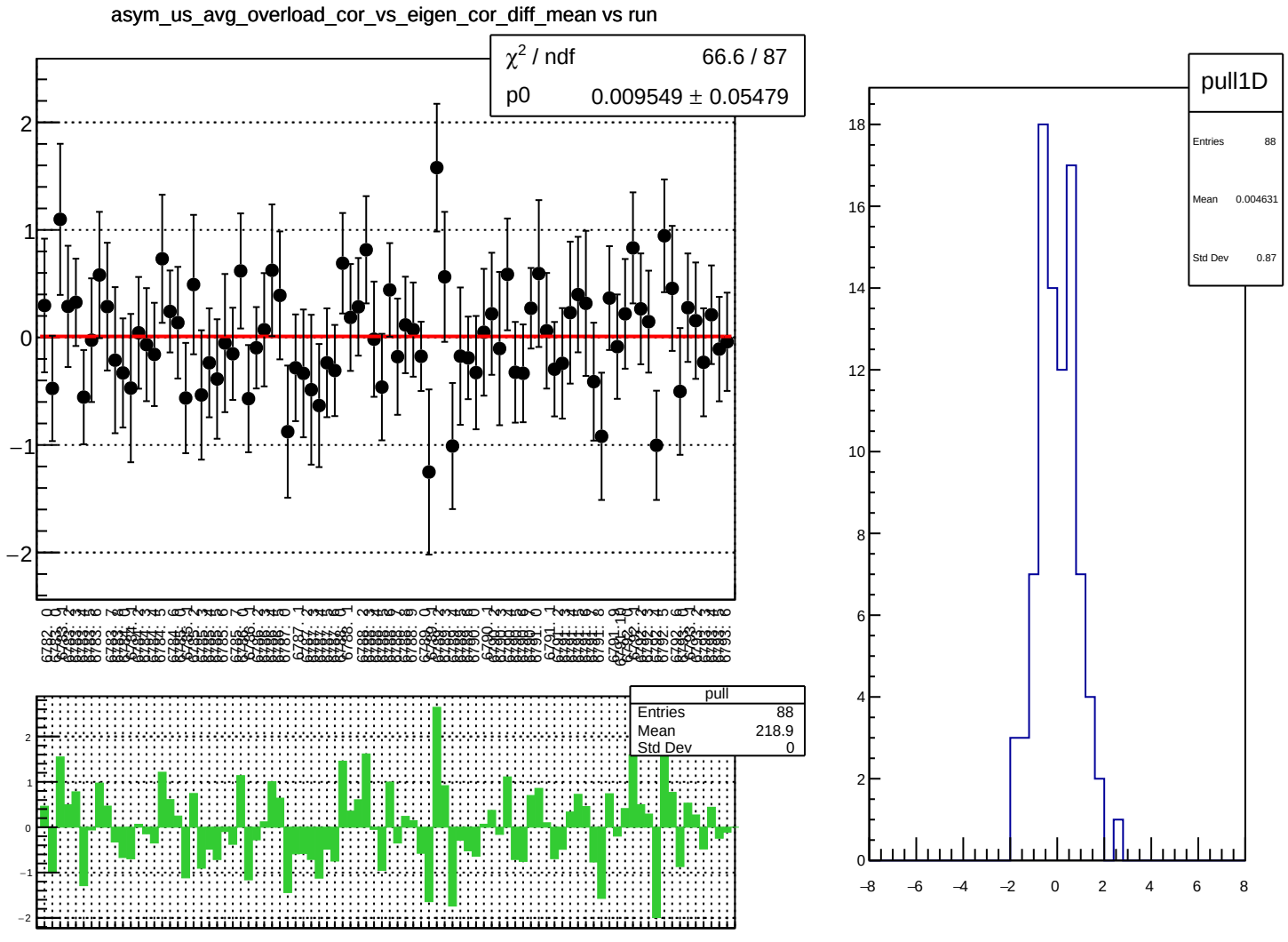

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 2.107e+04 / 87
p0 73.61 ± 0.05759
100
90
80
70
60
50

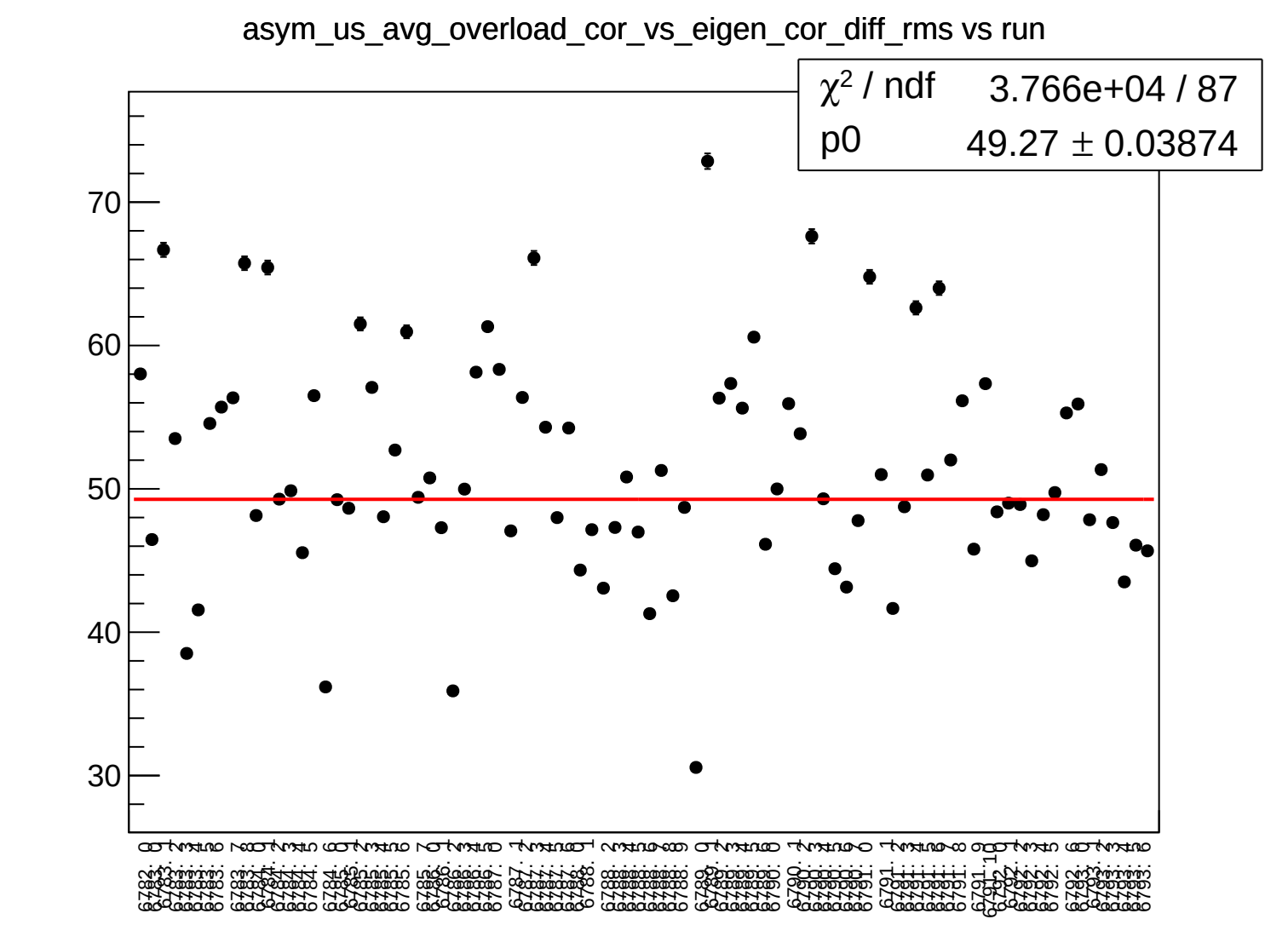

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.75 / 87
p0 −1.569e−15 ± 1.974e−14
pull
Entries 88
Mean 247
Std Dev 0
pull1D
Entries 88
Mean 0.01274
Std Dev 0.9985

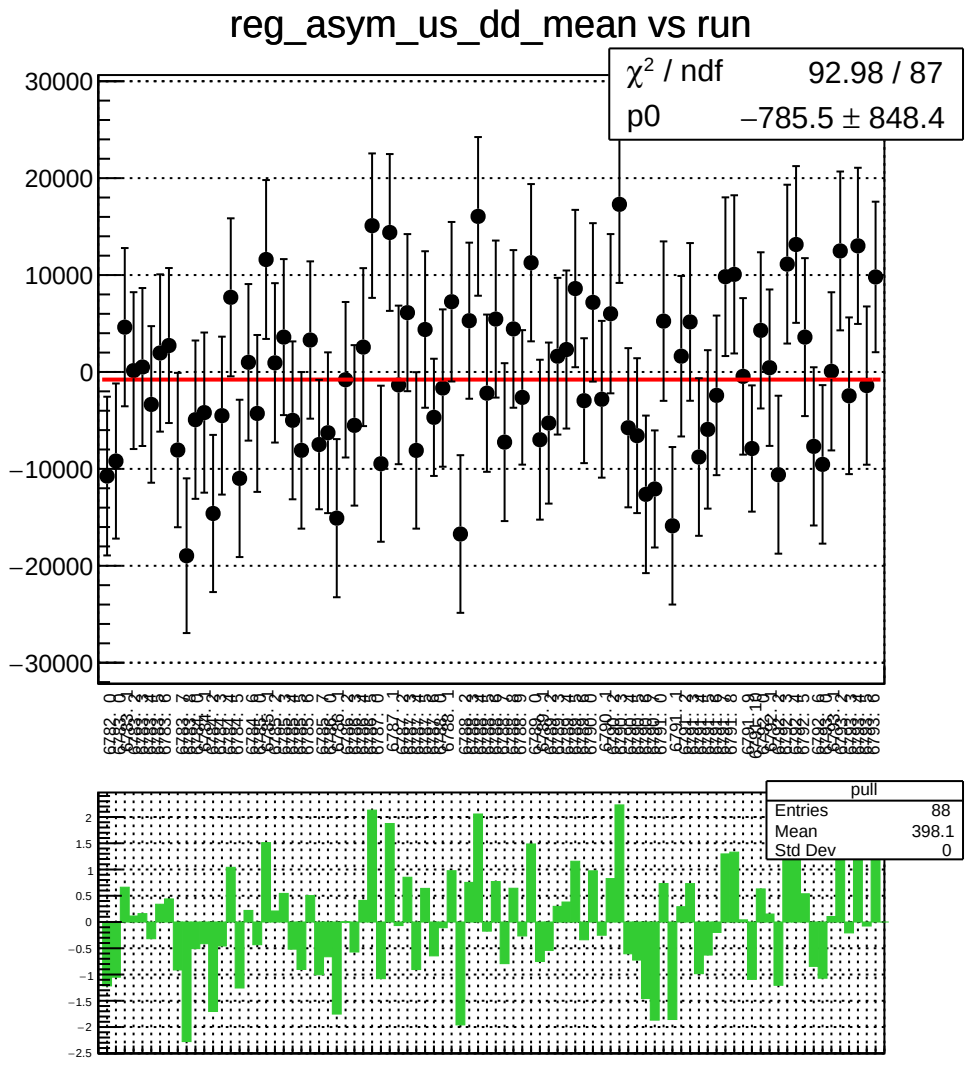

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.945e+05 / 87
p0 1.295e−11 ± 1.396e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

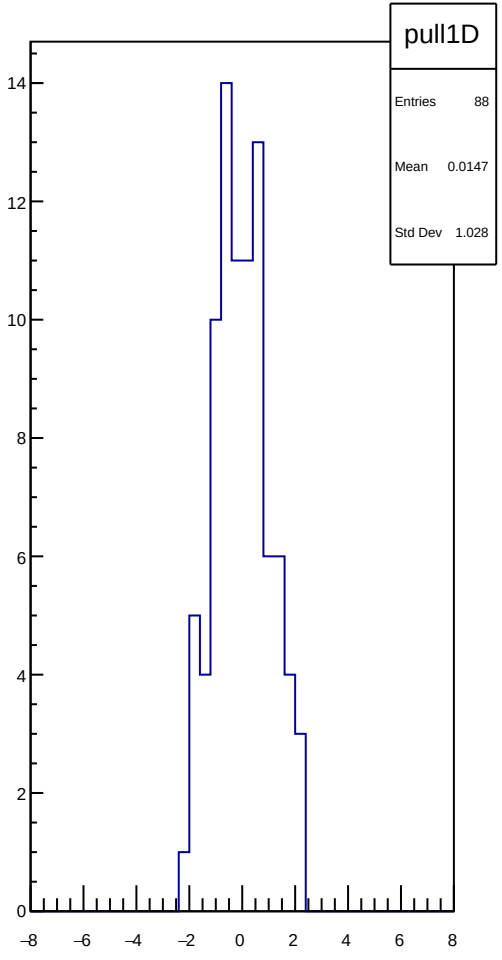

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 66.6 / 87
p0 0.009549 ± 0.05479
pull
Entries 88
Mean 218.9
Std Dev 0
pull1D
Entries 88
Mean 0.004631
Std Dev 0.87

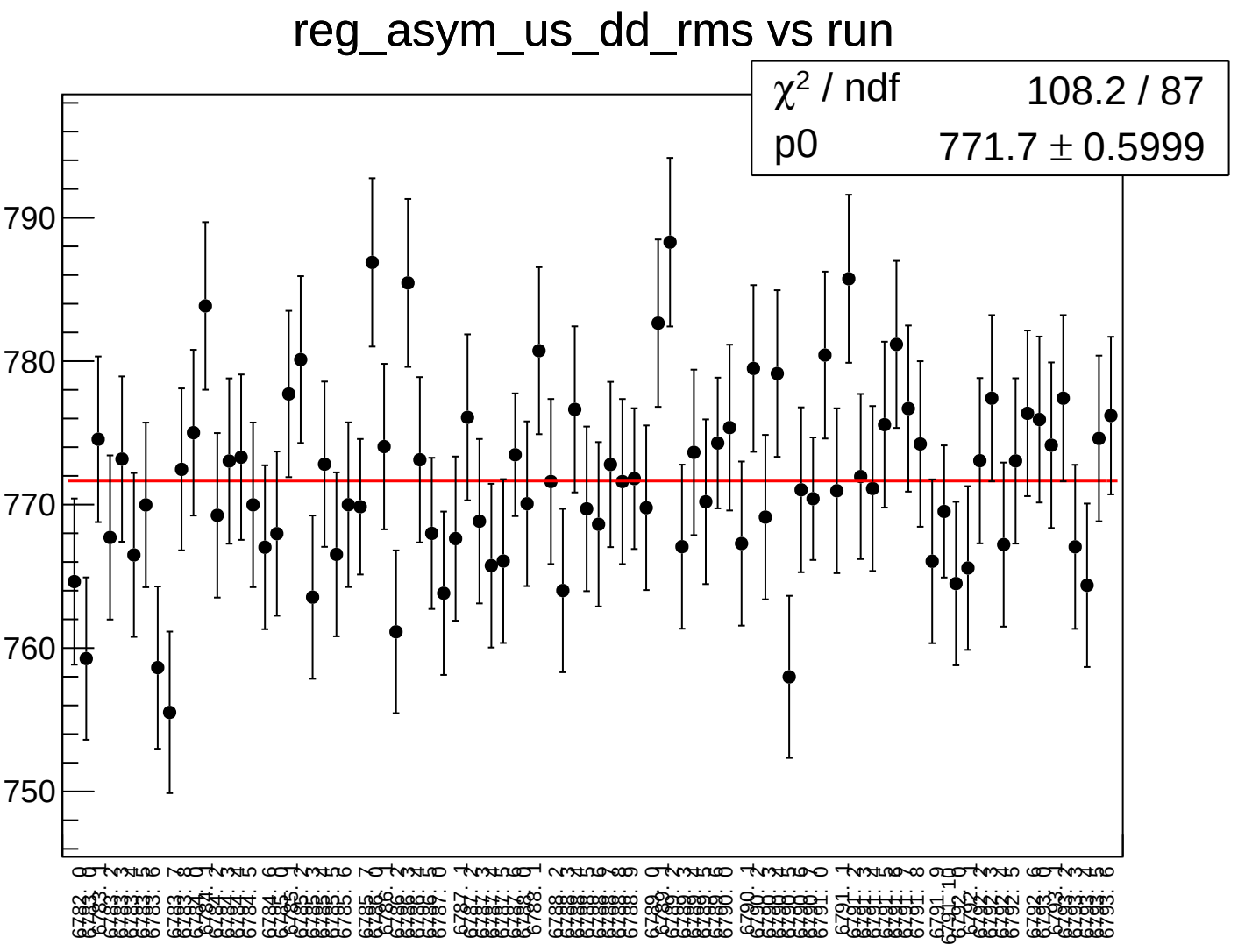

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.766e+04 / 87
p0 49.27 ± 0.03874
70
60
50
40
30

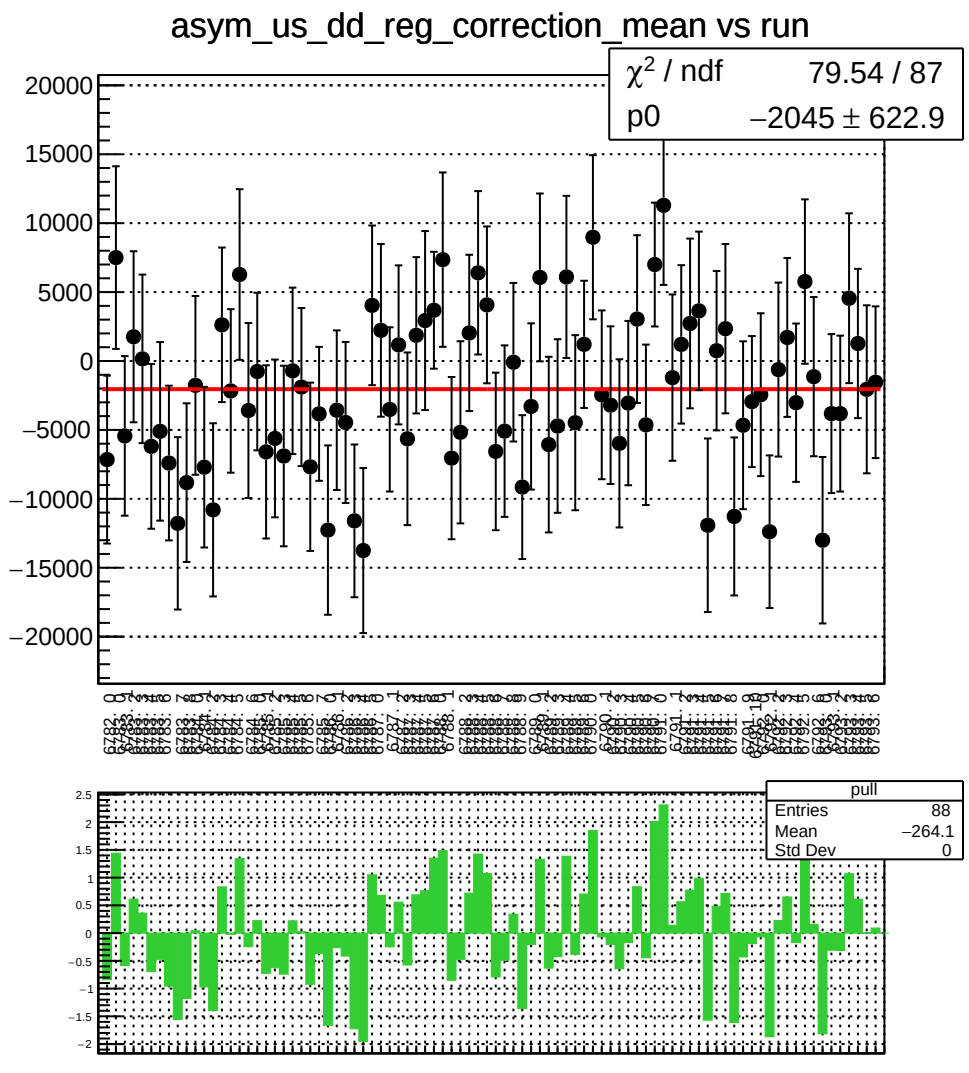

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.6 / 87
p0 0.009549 ± 0.05479
pull
Entries 88
Mean 218.9
Std Dev 0
pull1D
Entries 88
Mean 0.004631
Std Dev 0.87

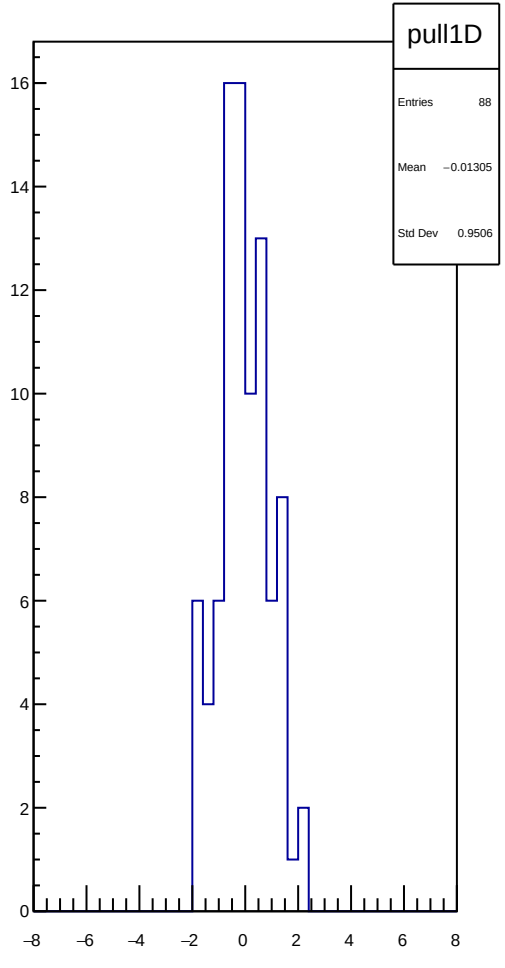

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.766e+04 / 87
p0 49.27 ± 0.03874
70
60
50
40
30

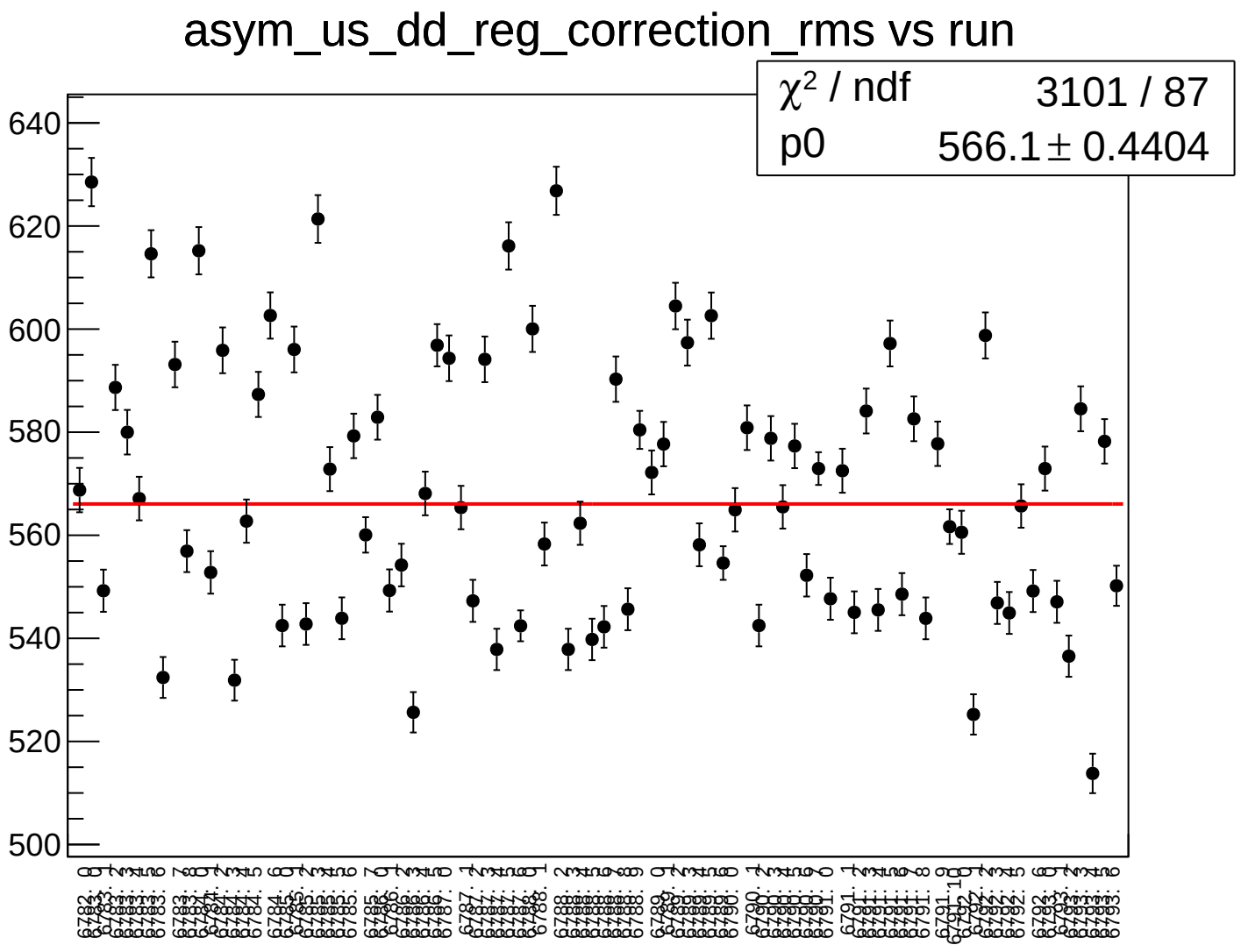

reg_asym_us_dd_mean vs run
χ² / ndf 92.98 / 87
p0 −785.5 ± 848.4
pull
Entries 88
Mean 398.1
Std Dev 0

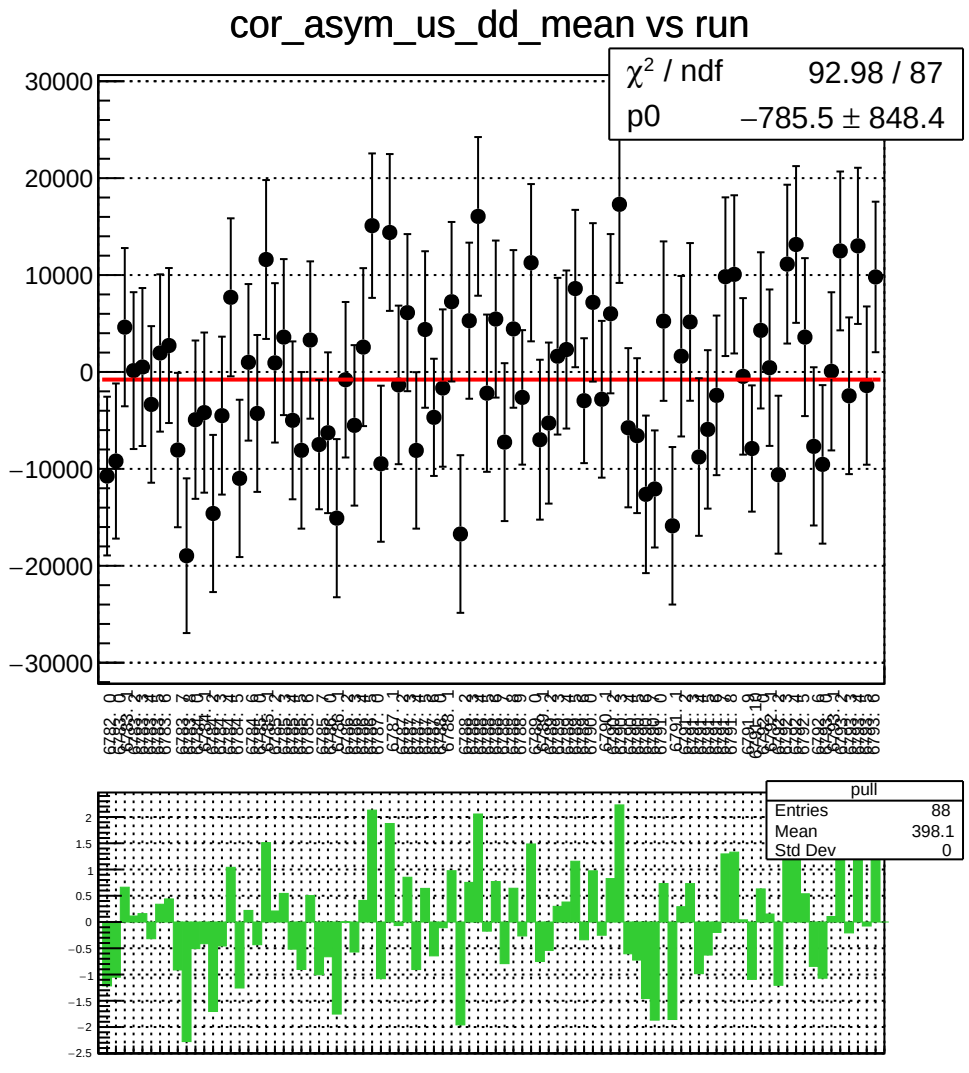

pull1D
Entries 88
Mean 0.0147
Std Dev 1.028

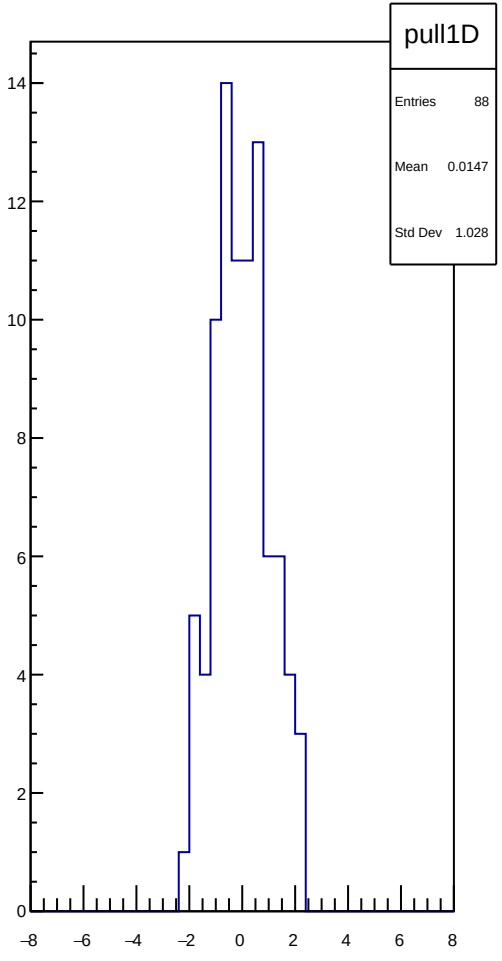

reg_asym_us_dd_rms vs run
χ² / ndf 108.2 / 87
p0 771.7 ± 0.5999
790
780
770
760
750

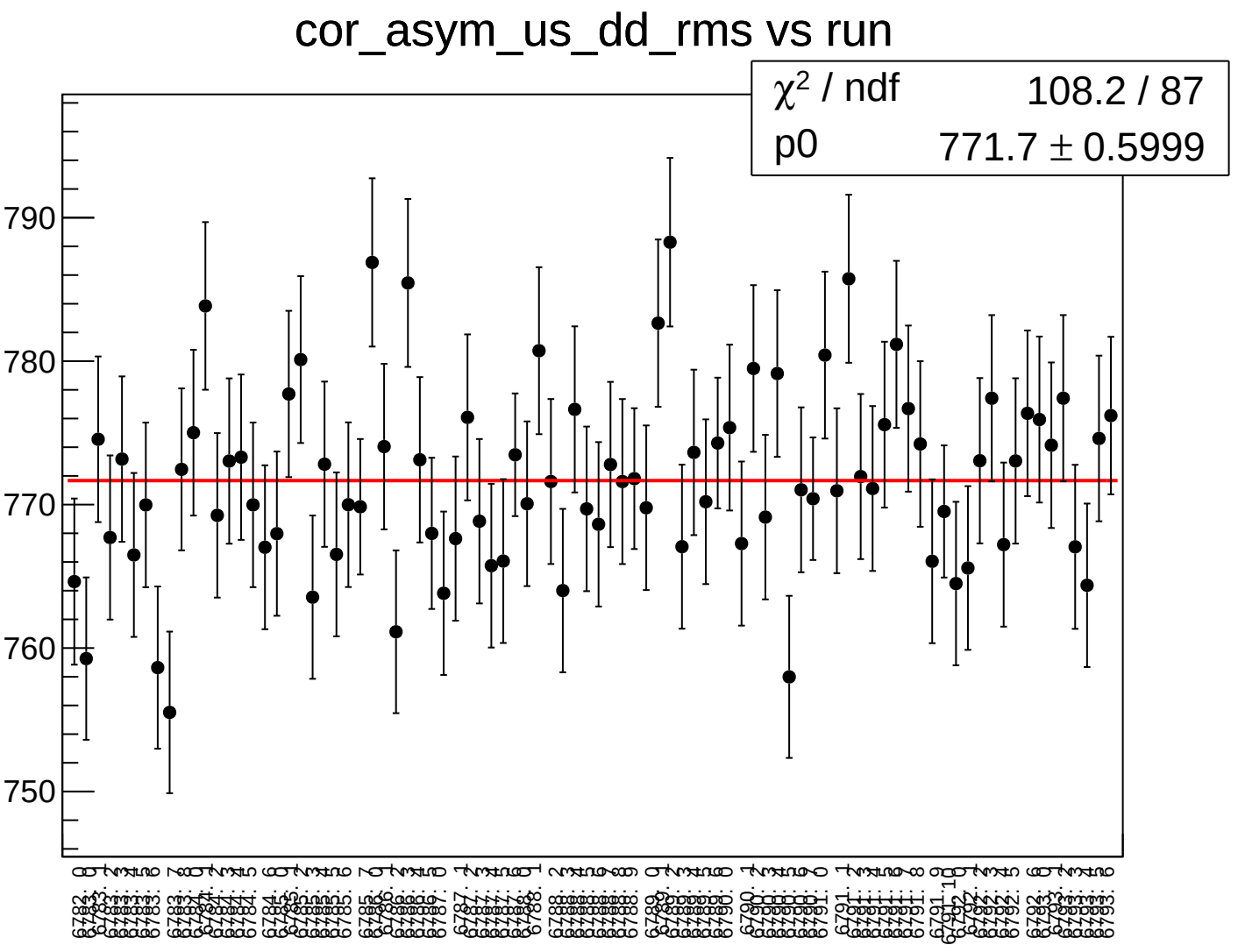

asym_us_dd_reg_correction_mean vs run
χ² / ndf 79.54 / 87
p0 −2045 ± 622.9
pull
Entries 88
Mean −264.1
Std Dev 0

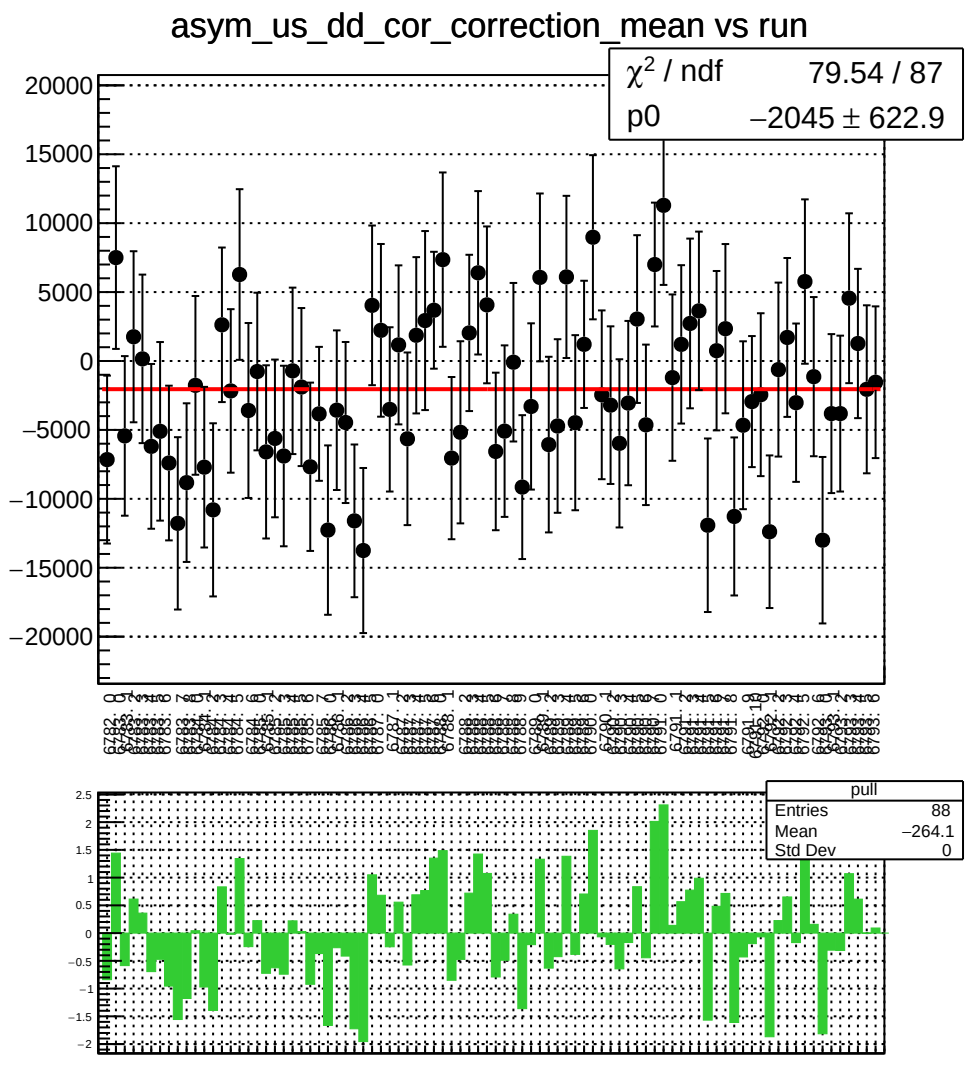

pull1D
Entries 88
Mean −0.01305
Std Dev 0.9506

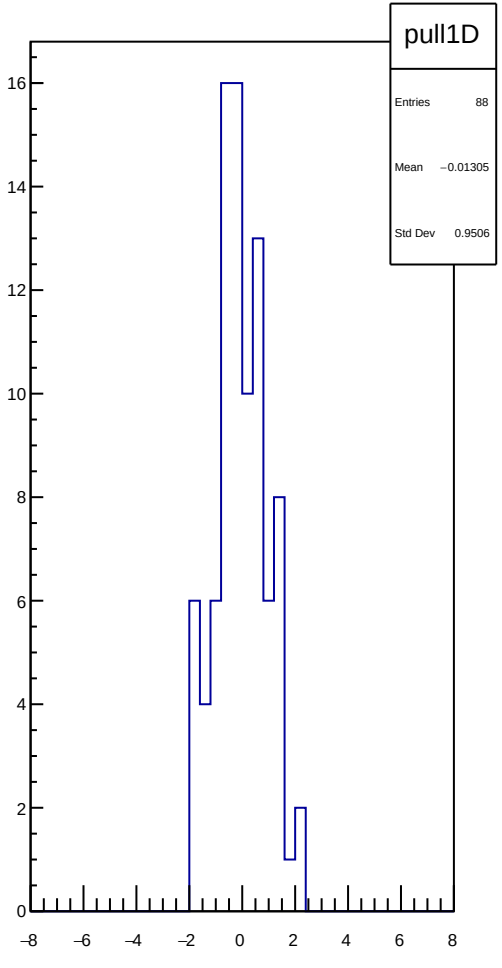

asym_us_dd_reg_correction_rms vs run
χ² / ndf 3101 / 87
p0 566.1 ± 0.4404
640
620
600
580
560
540
520
500

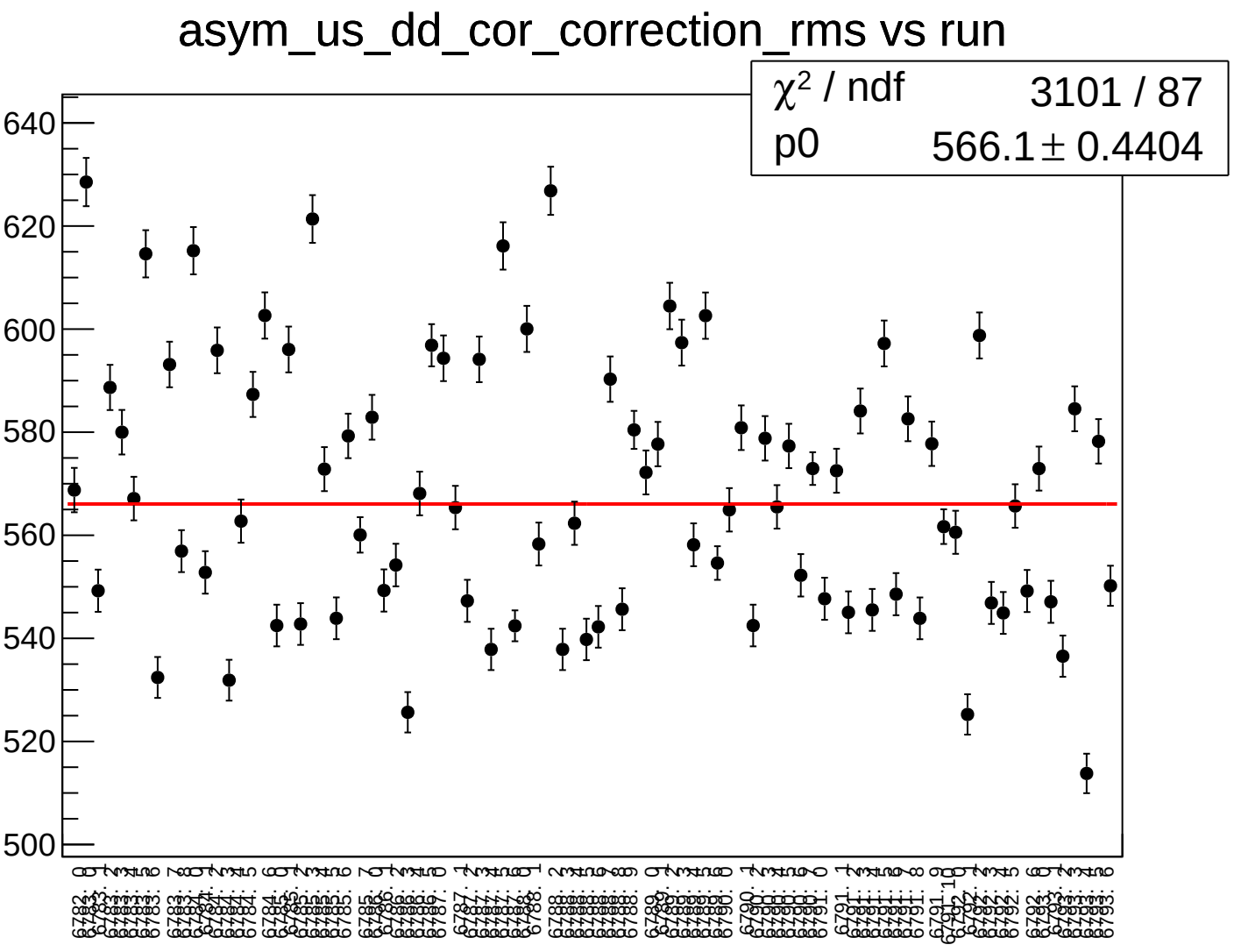

cor_asym_us_dd_mean vs run
χ² / ndf 92.98 / 87
p0 −785.5 ± 848.4
pull
Entries 88
Mean 398.1
Std Dev 0

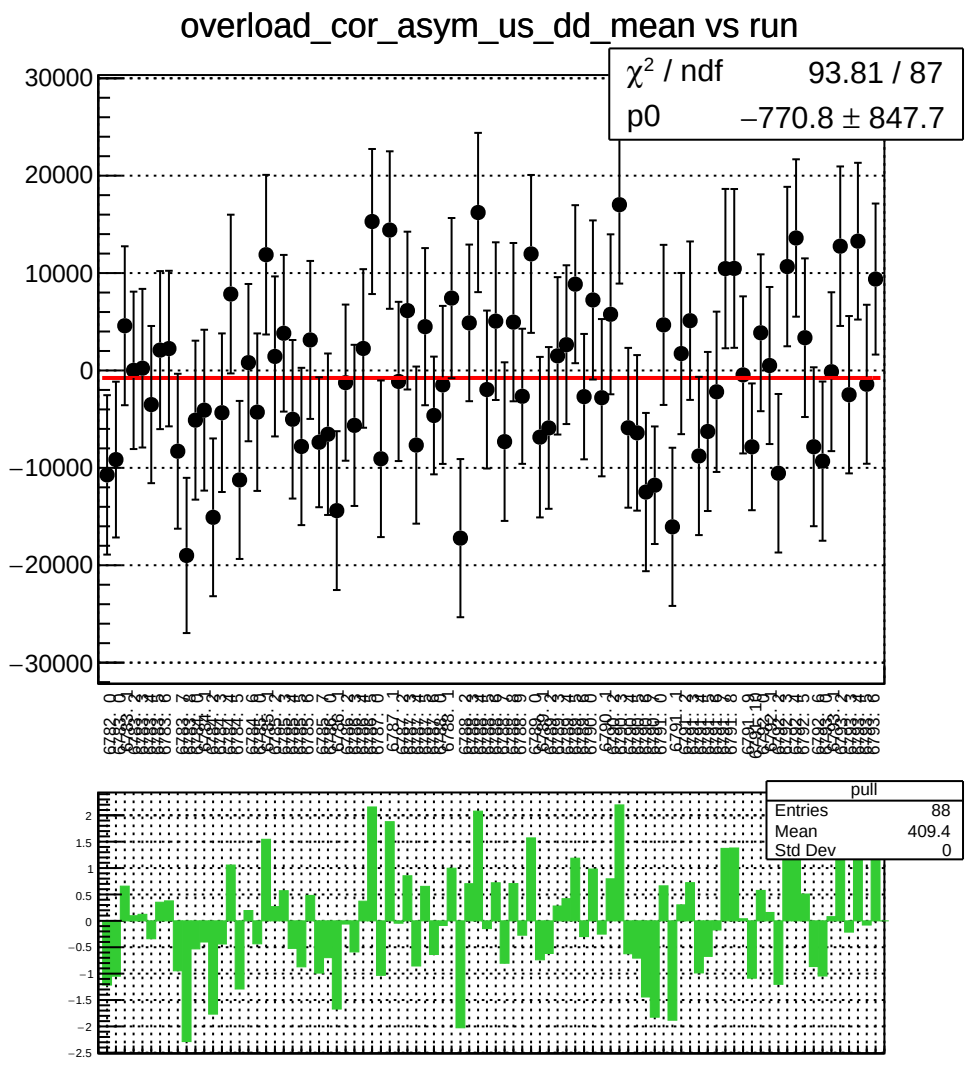

pull1D
Entries 88
Mean 0.0147
Std Dev 1.028

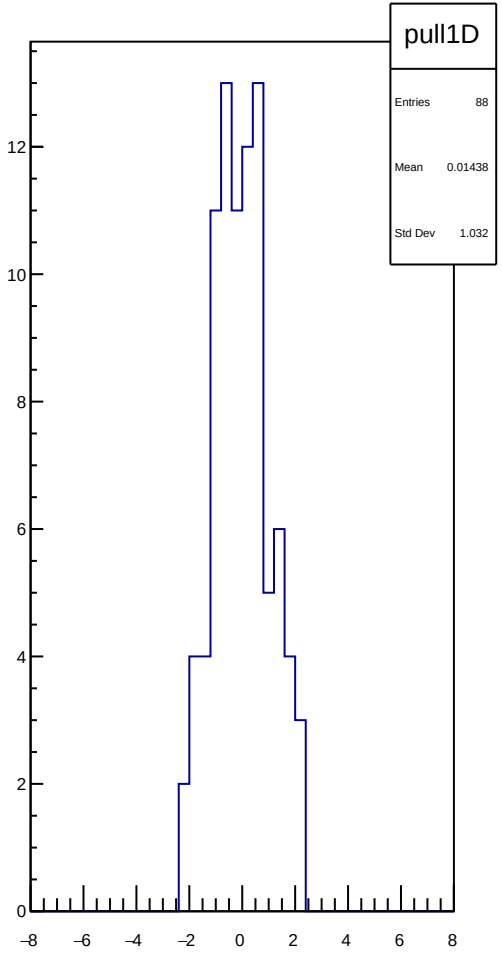

cor_asym_us_dd_rms vs run
χ² / ndf 108.2 / 87
p0 771.7 ± 0.5999
790
780
770
760
750

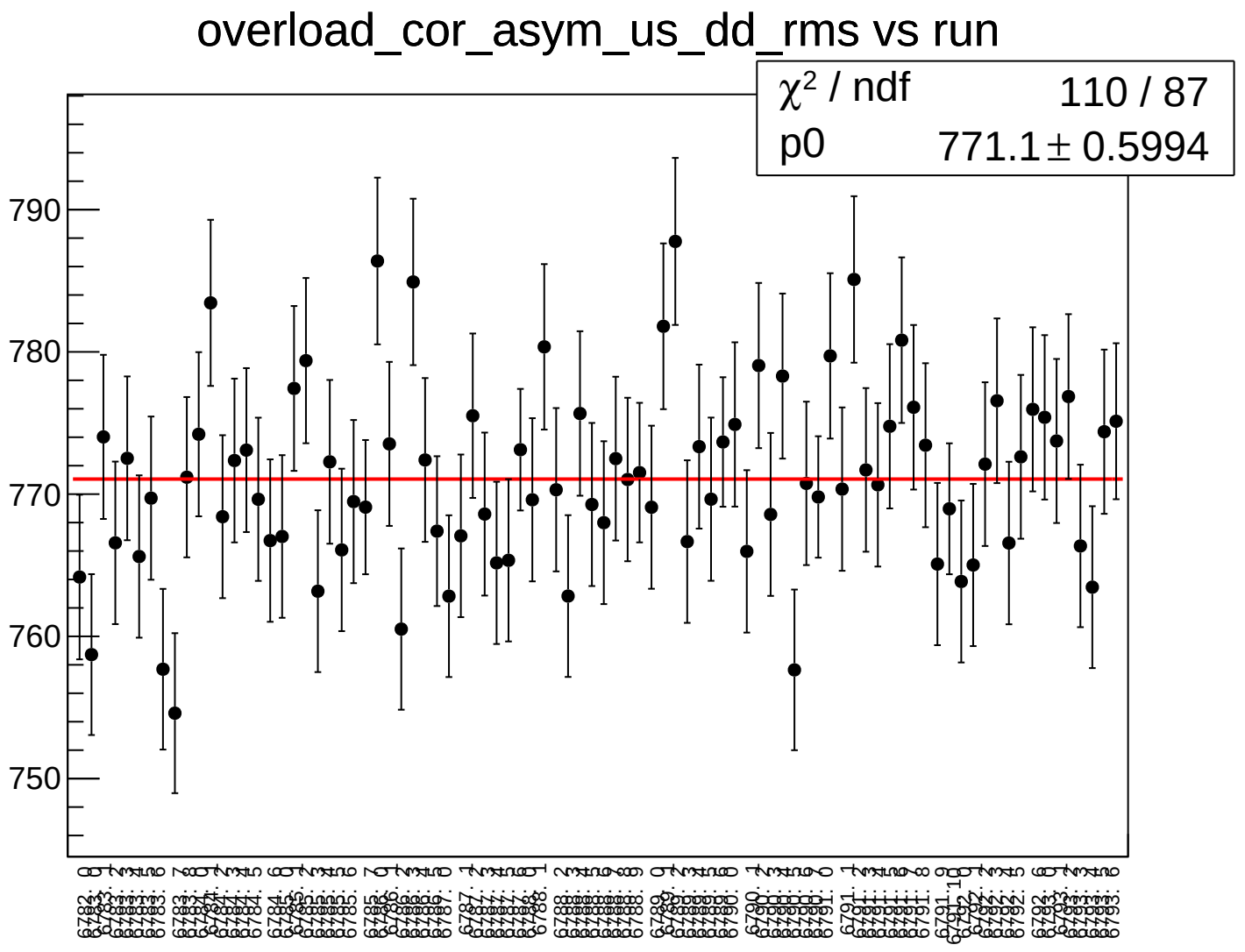

asym_us_dd_cor_correction_mean vs run
χ² / ndf 79.54 / 87
p0 −2045 ± 622.9
pull
Entries 88
Mean −264.1
Std Dev 0

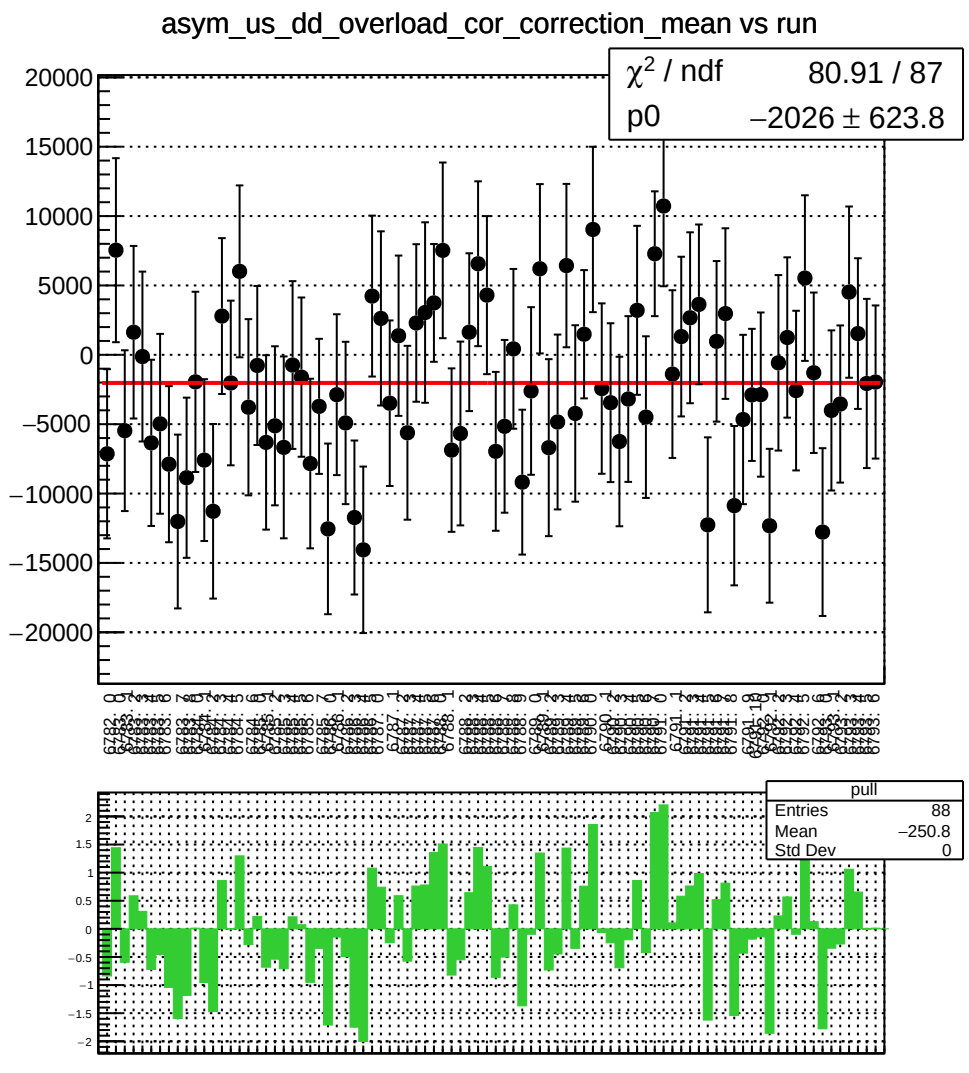

pull1D
Entries 88
Mean −0.01305
Std Dev 0.9506

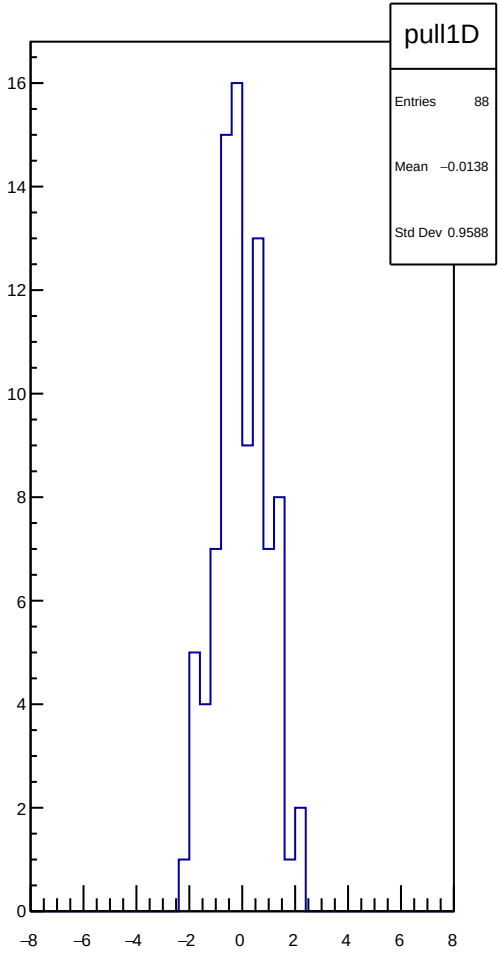

asym_us_dd_cor_correction_rms vs run
χ² / ndf 3101 / 87
p0 566.1 ± 0.4404
640
620
600
580
560
540
520
500

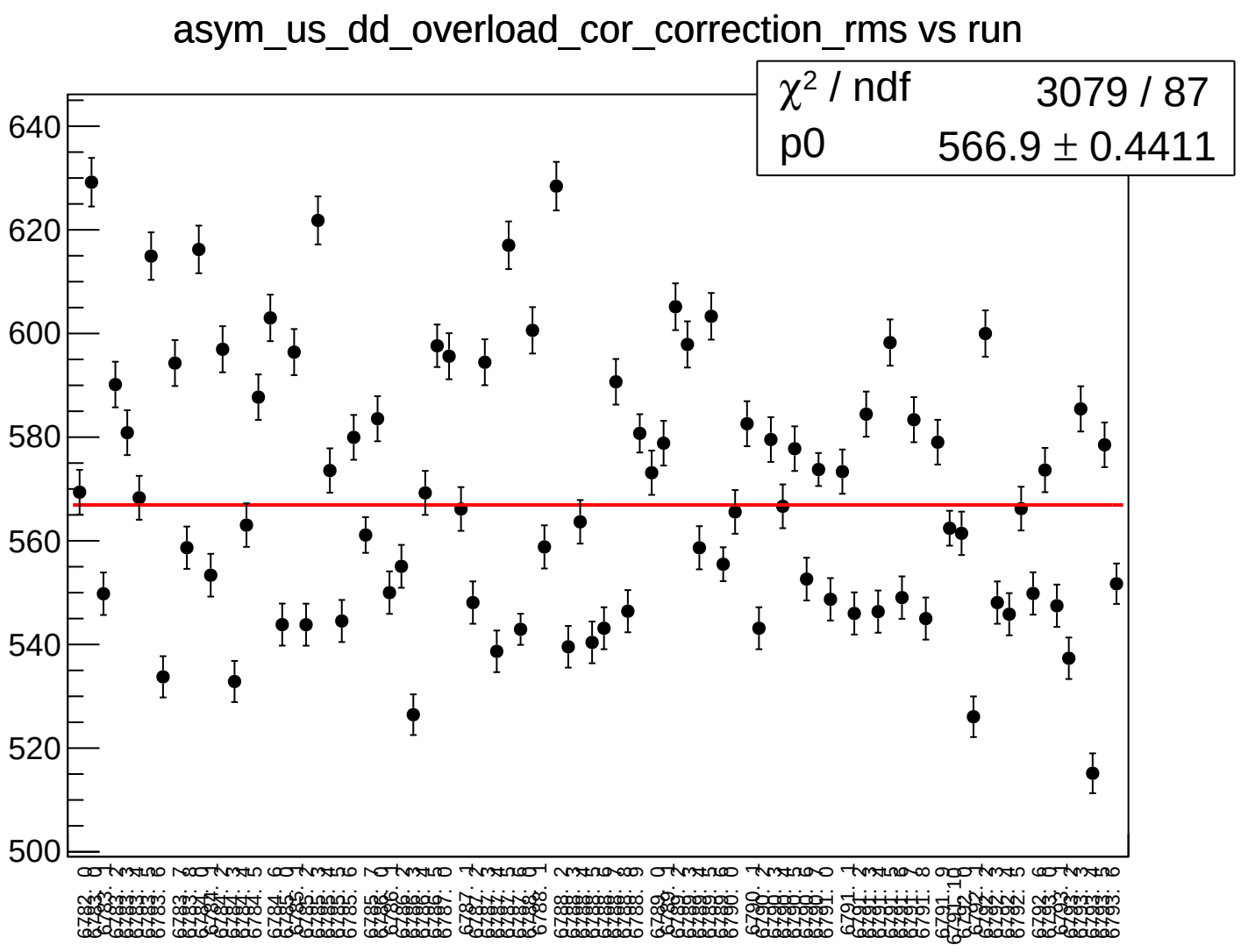

overload_cor_asym_us_dd_mean vs run
χ² / ndf 93.81 / 87
p0 −770.8 ± 847.7
pull
Entries 88
Mean 409.4
Std Dev 0

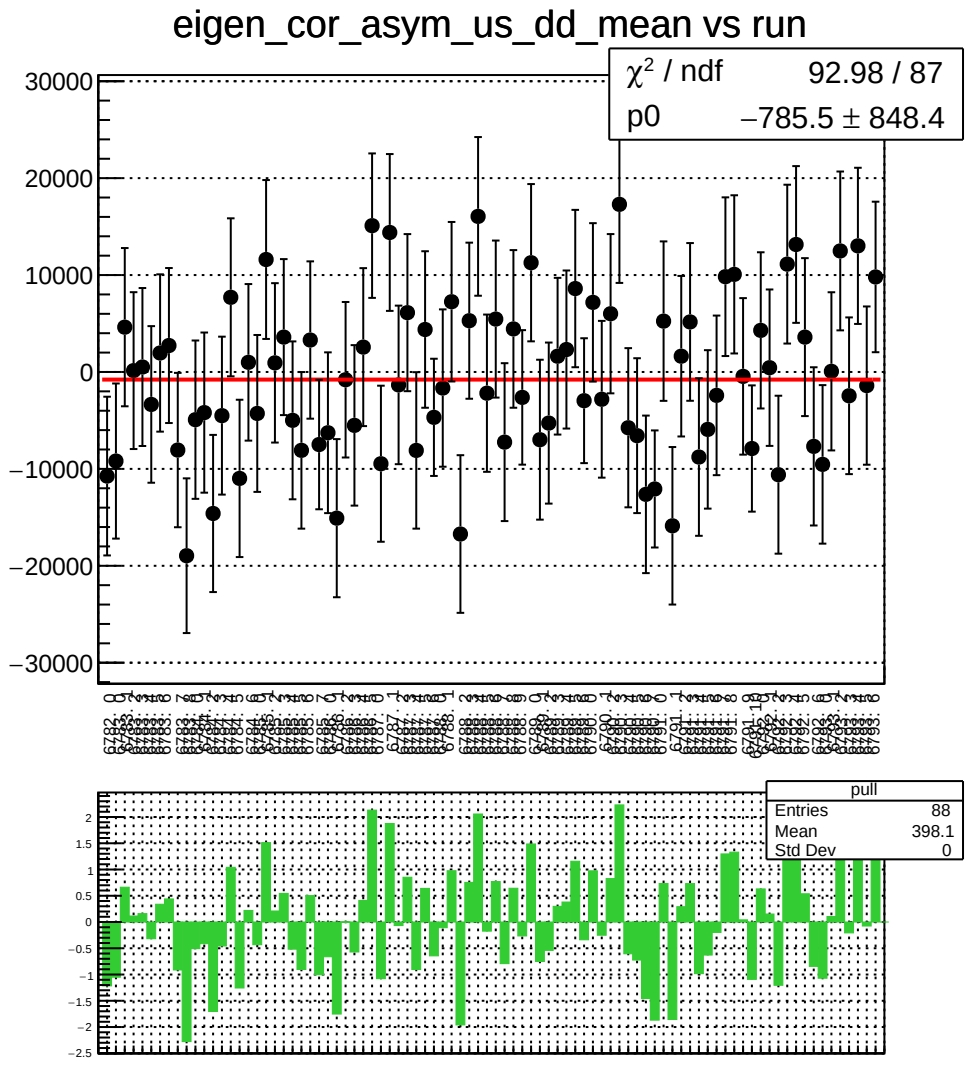

pull1D
Entries 88
Mean 0.01438
Std Dev 1.032

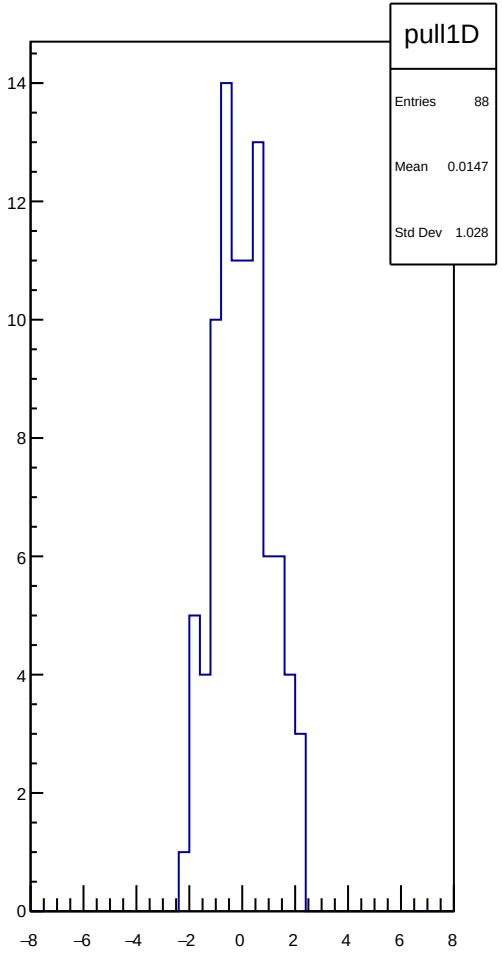

overload_cor_asym_us_dd_rms vs run
χ² / ndf 110 / 87
p0 771.1 ± 0.5994
790
780
770
760
750

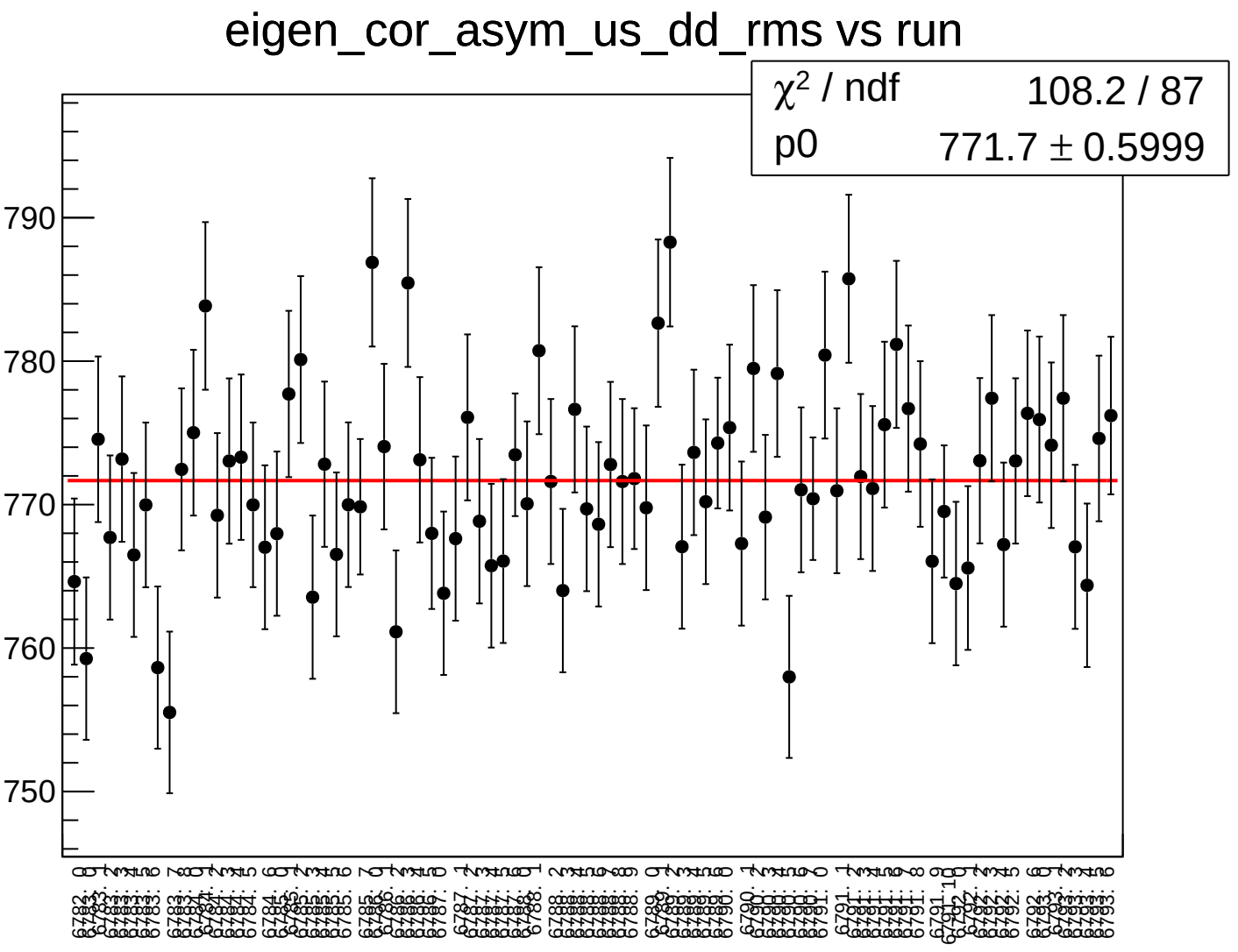

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 80.91 / 87
p0 −2026 ± 623.8
pull
Entries 88
Mean −250.8
Std Dev 0

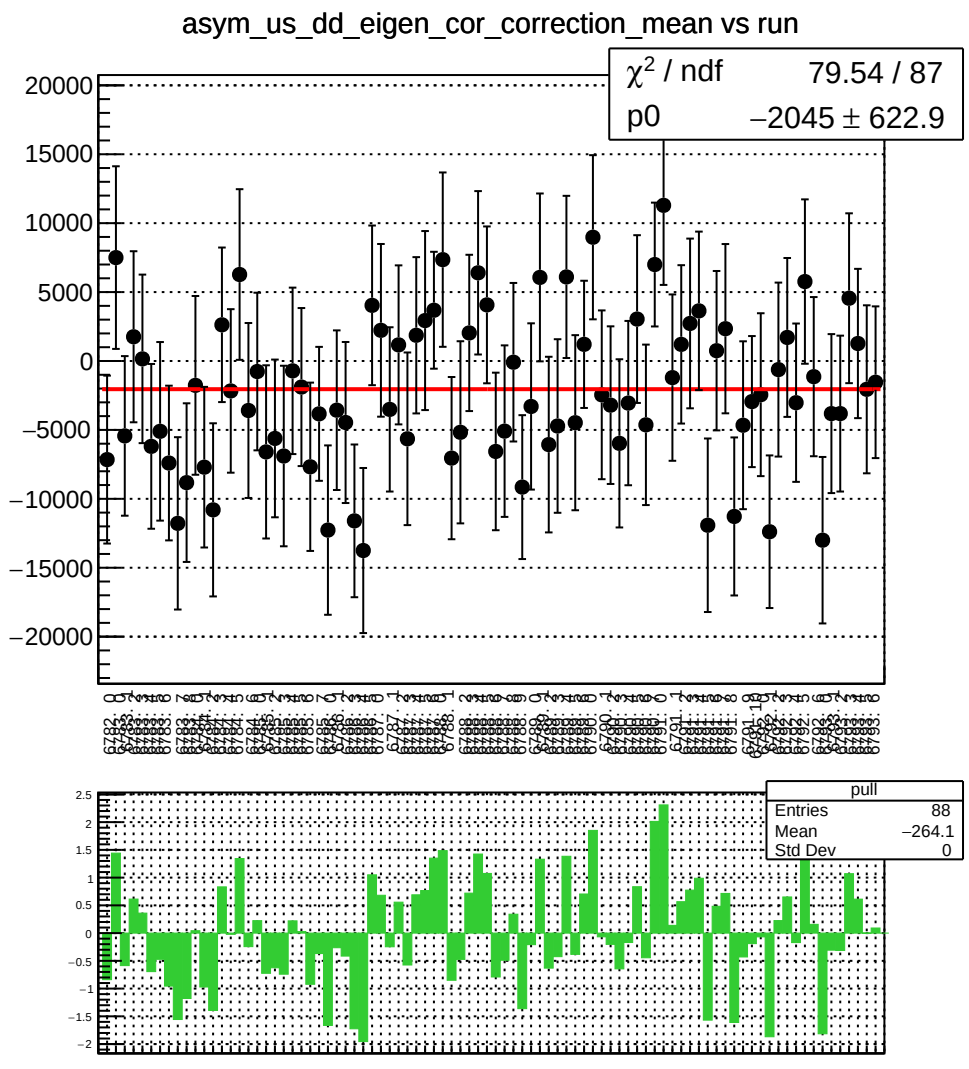

pull1D
Entries 88
Mean −0.0138
Std Dev 0.9588

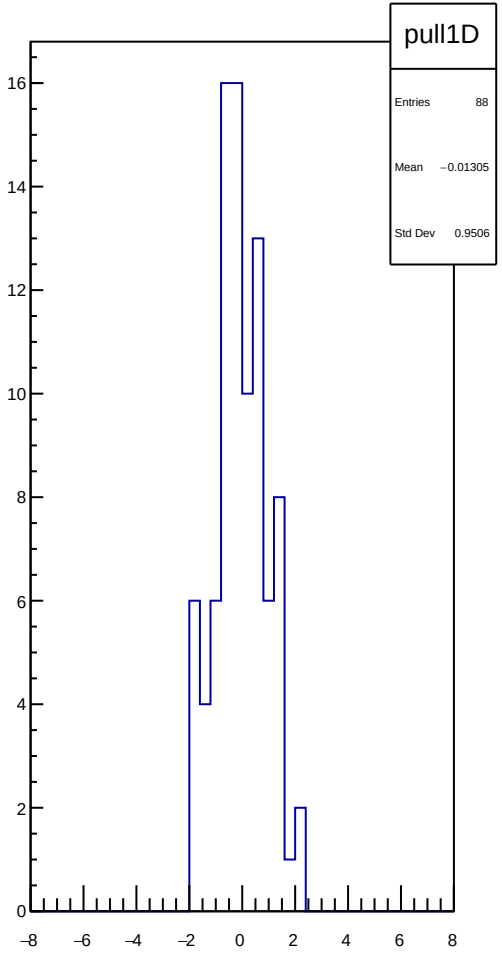

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 3079 / 87
p0 566.9 ± 0.4411
640
620
600
580
560
540
520
500

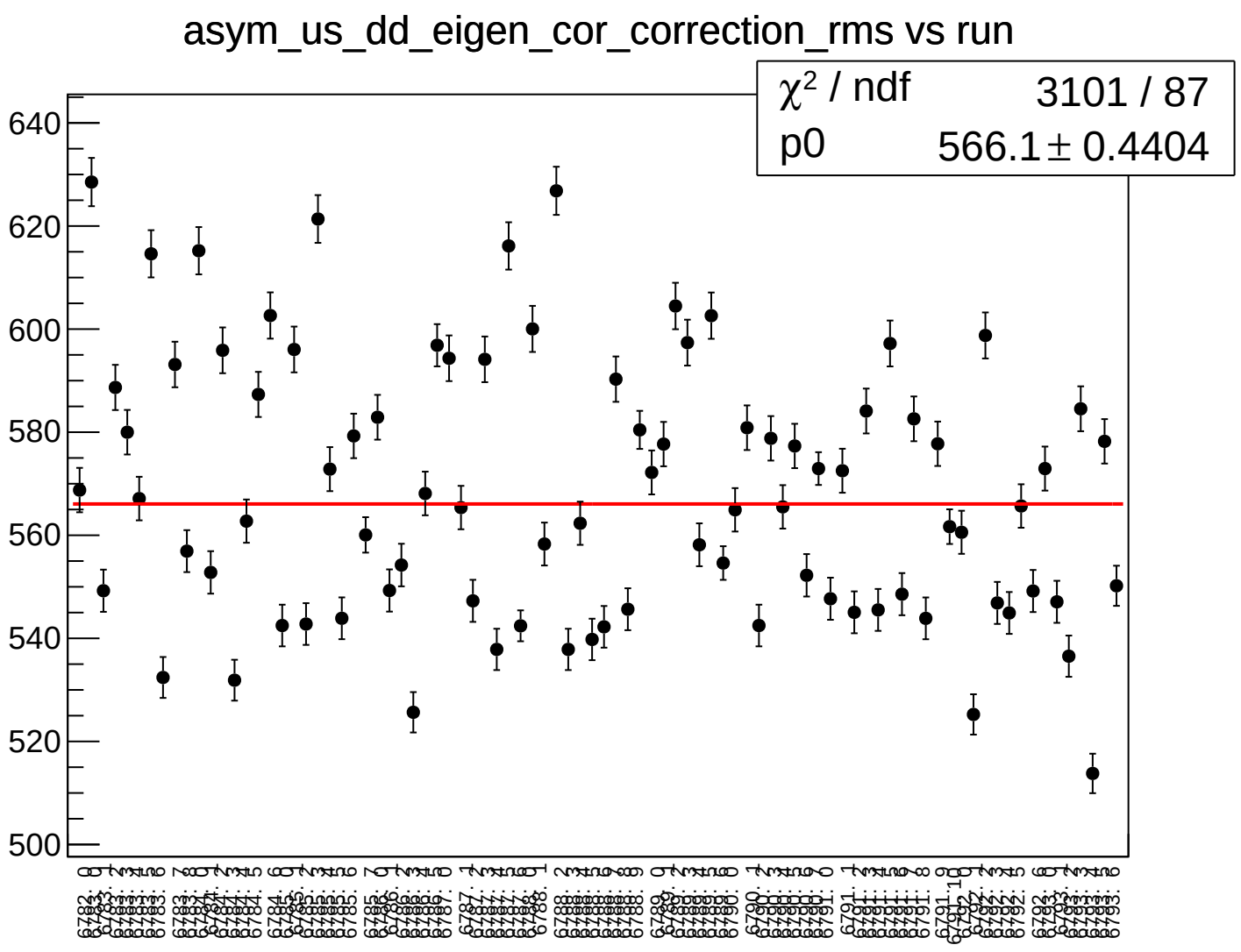

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 92.98 / 87
p0 −785.5 ± 848.4
pull
Entries 88
Mean 398.1
Std Dev 0

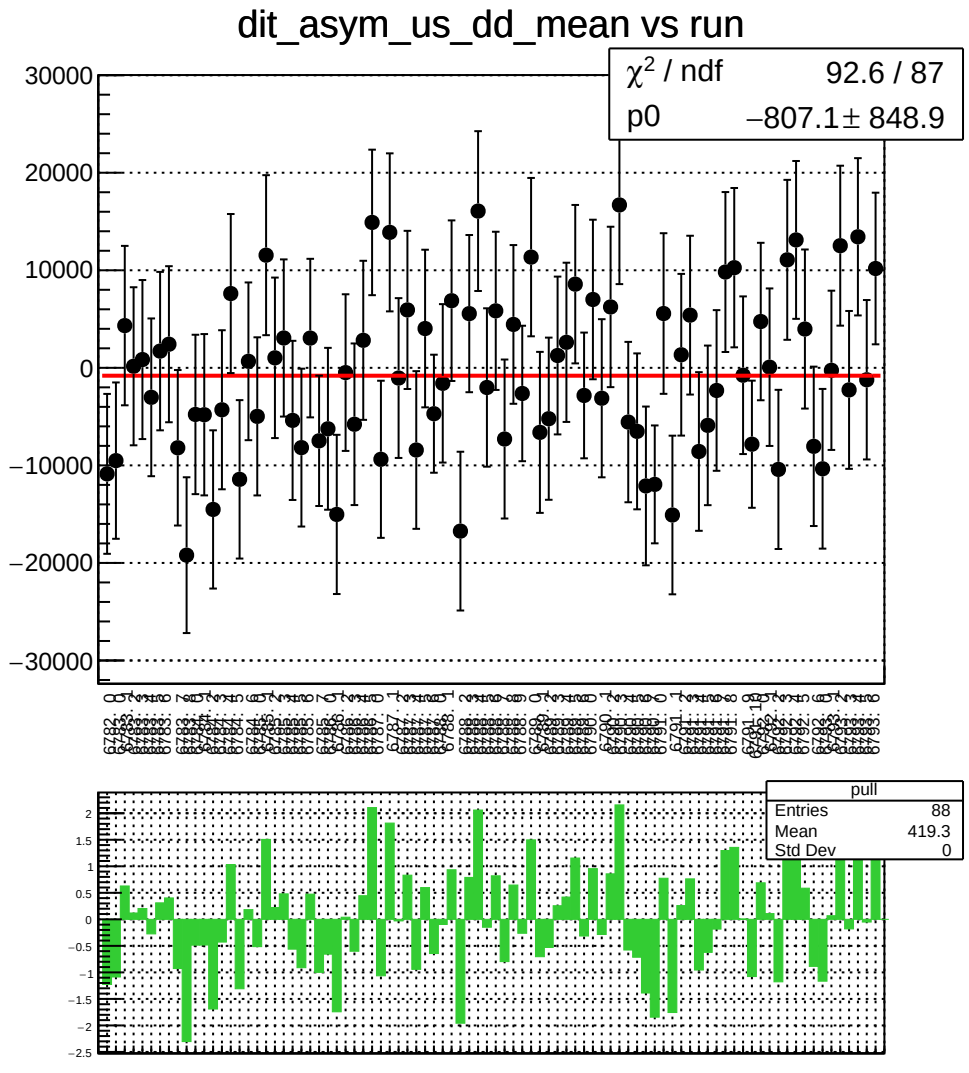

pull1D
Entries 88
Mean 0.0147
Std Dev 1.028

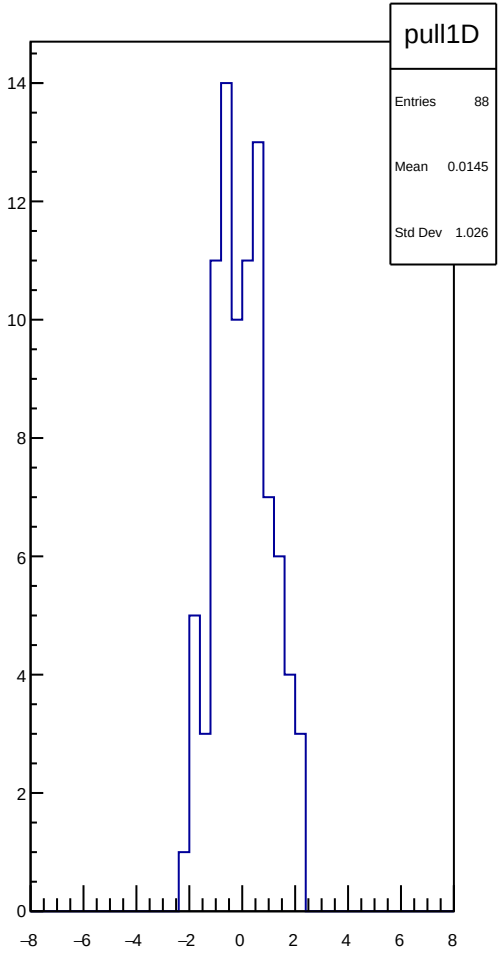

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 108.2 / 87
p0 771.7 ± 0.5999
790
780
770
760
750

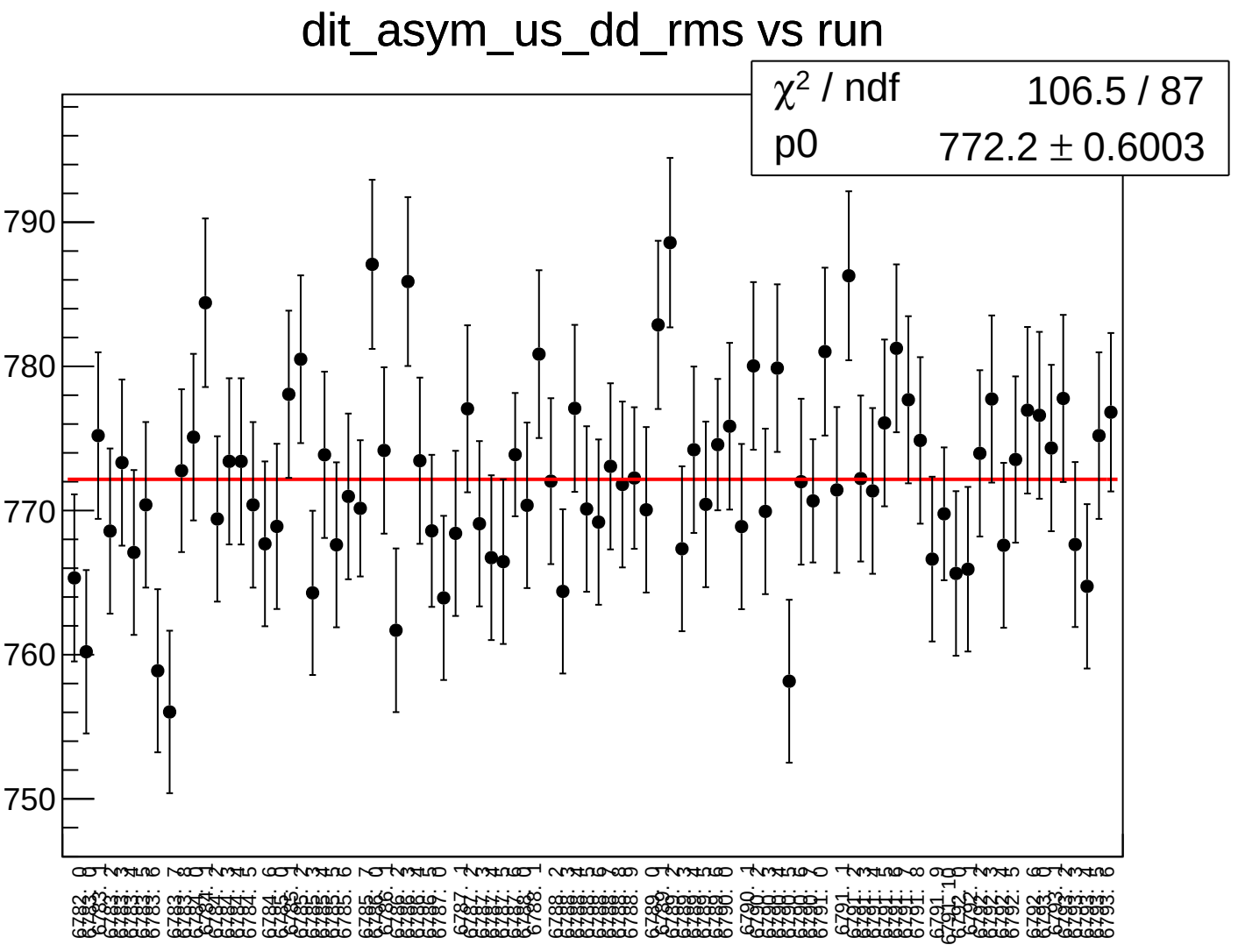

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.54 / 87
p0 −2045 ± 622.9
pull
Entries 88
Mean −264.1
Std Dev 0

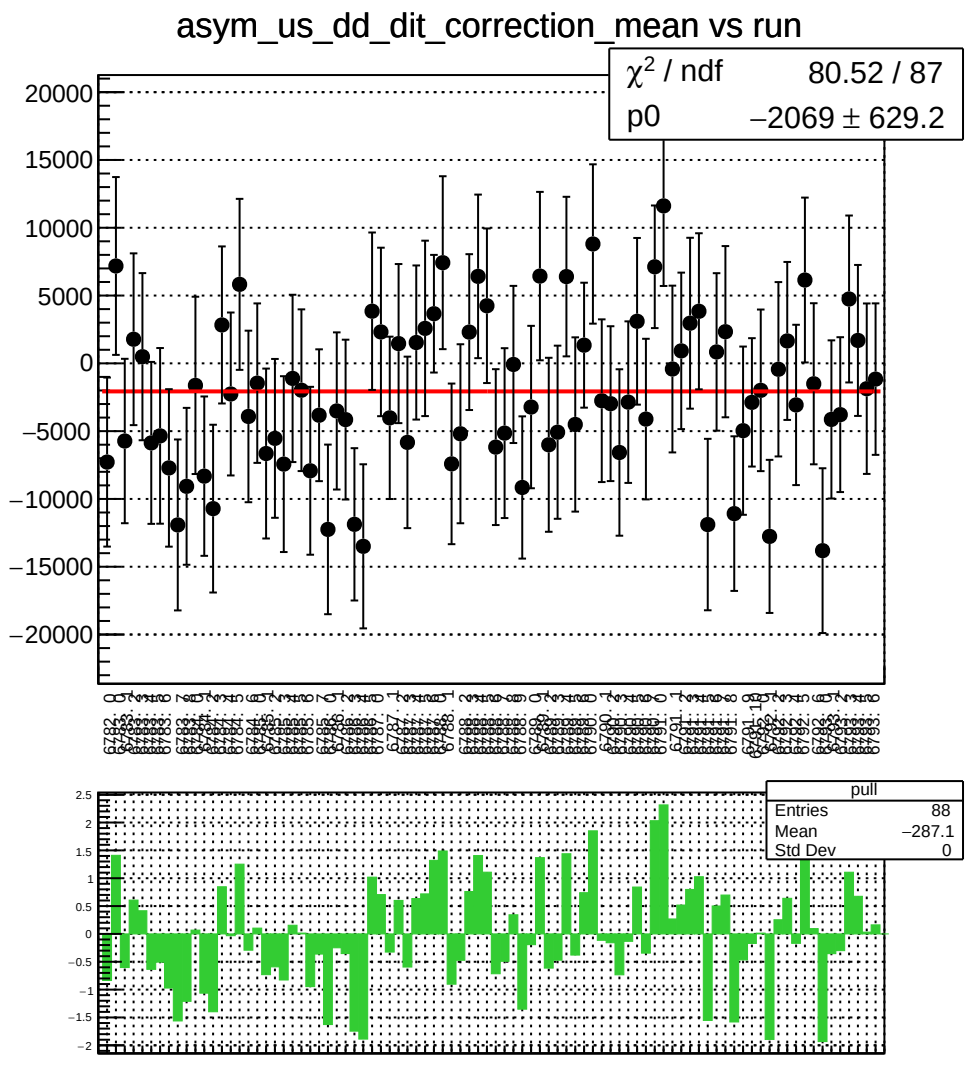

pull1D
Entries 88
Mean −0.01305
Std Dev 0.9506

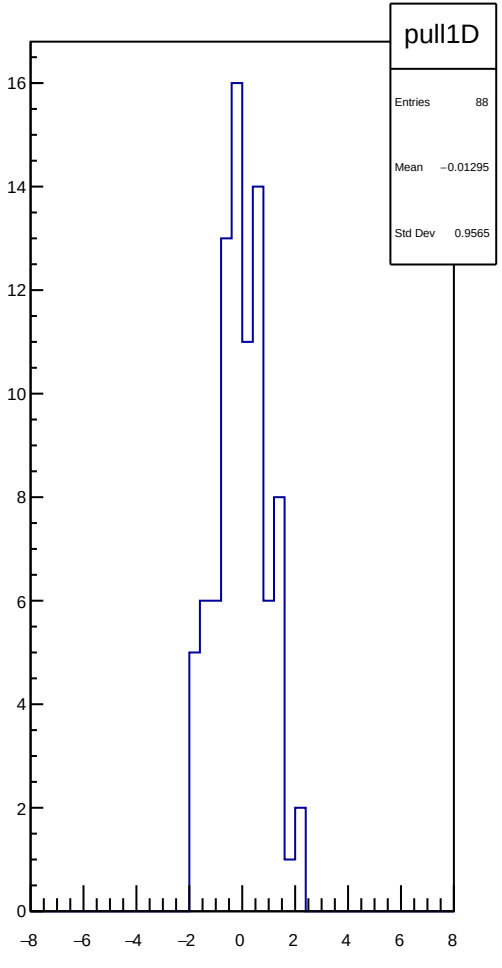

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 3101 / 87
p0 566.1 ± 0.4404
640
620
600
580
560
540
520
500

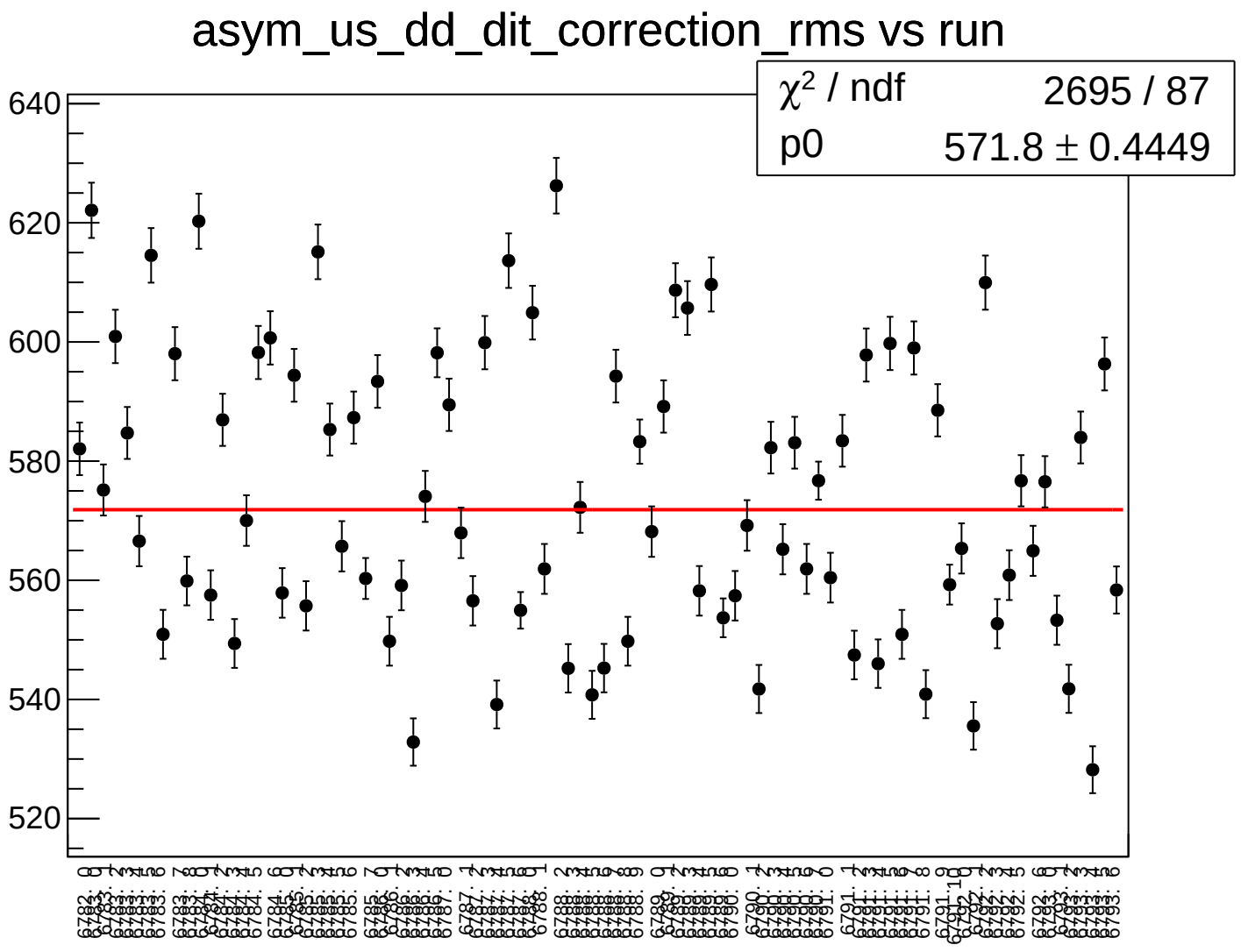

dit_asym_us_dd_mean vs run
χ² / ndf 92.6 / 87
p0 −807.1 ± 848.9
pull
Entries 88
Mean 419.3
Std Dev 0

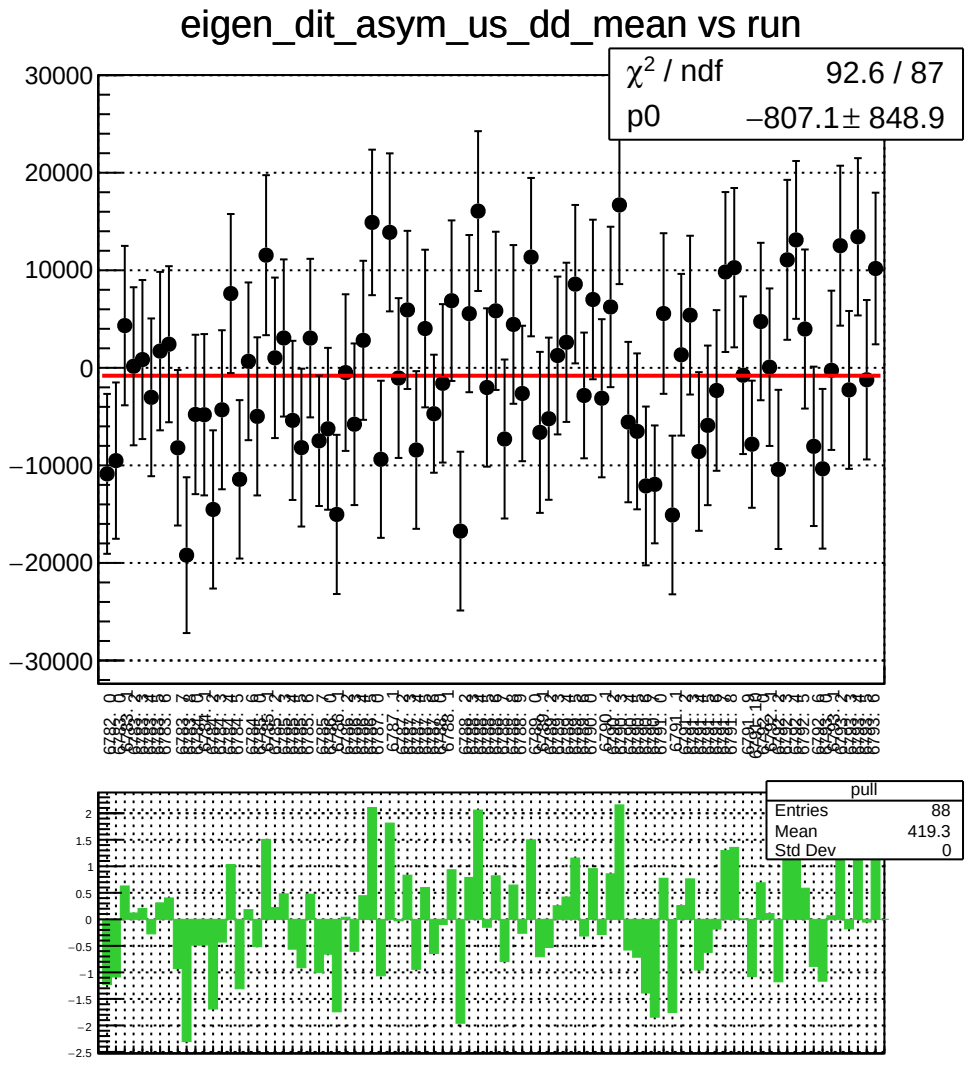

pull1D
Entries 88
Mean 0.0145
Std Dev 1.026

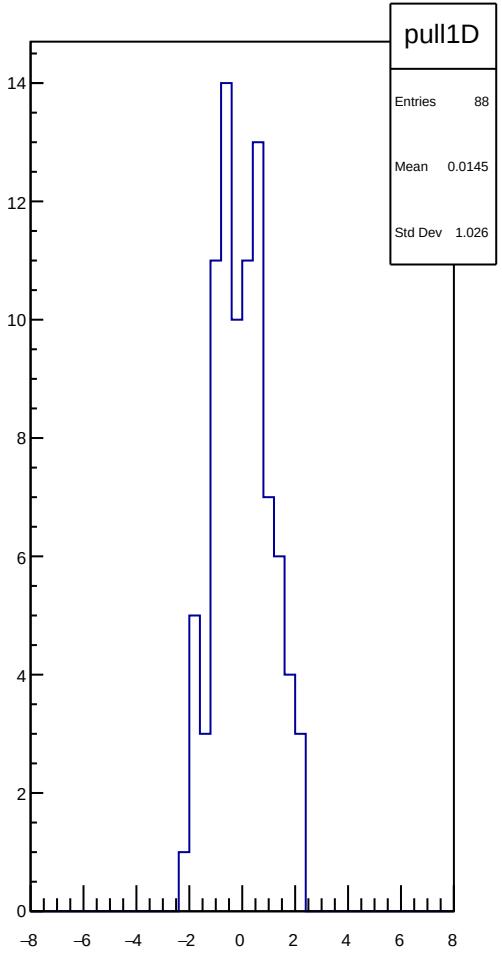

dit_asym_us_dd_rms vs run
χ² / ndf 106.5 / 87
p0 772.2 ± 0.6003
790
780
770
760
750

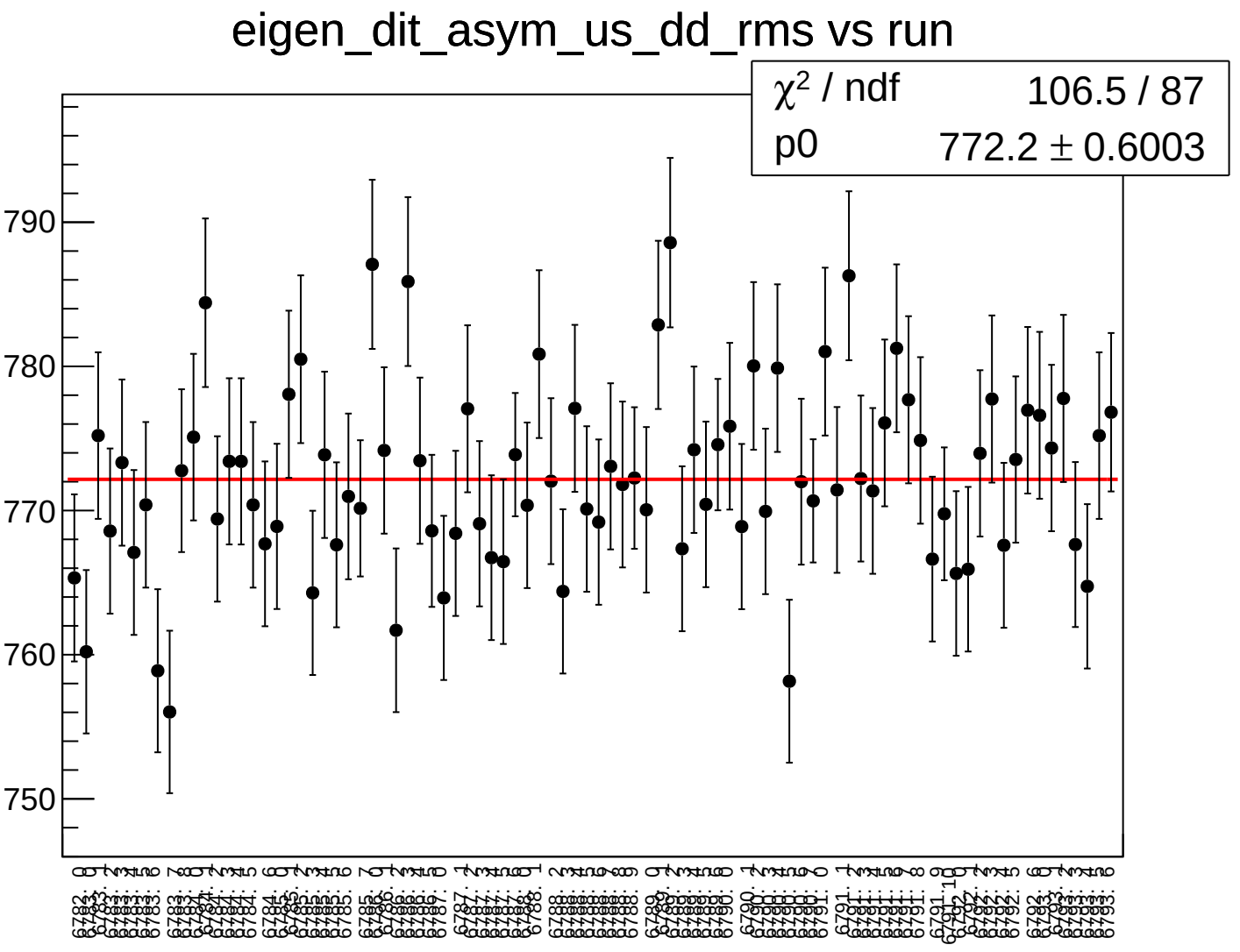

asym_us_dd_dit_correction_mean vs run
χ² / ndf 80.52 / 87
p0 −2069 ± 629.2
pull
Entries 88
Mean −287.1
Std Dev 0

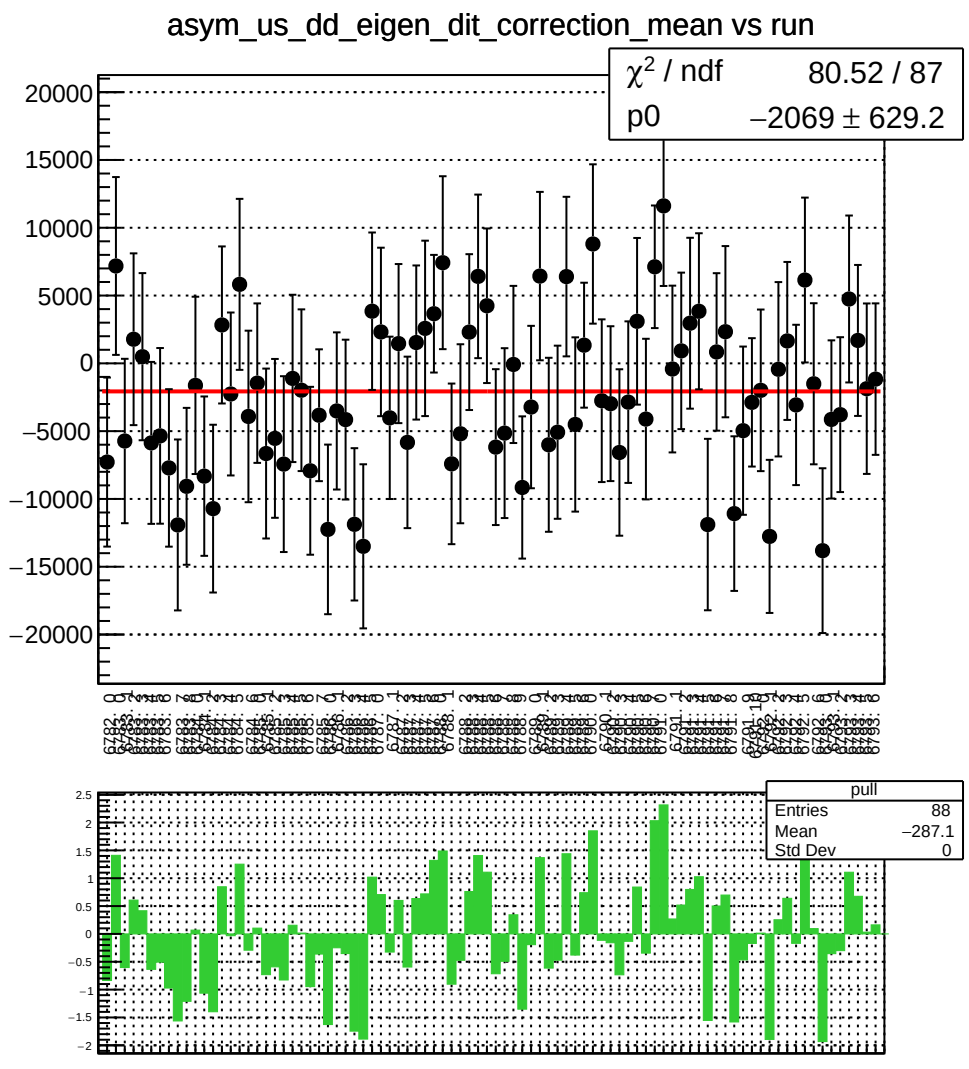

pull1D
Entries 88
Mean −0.01295
Std Dev 0.9565

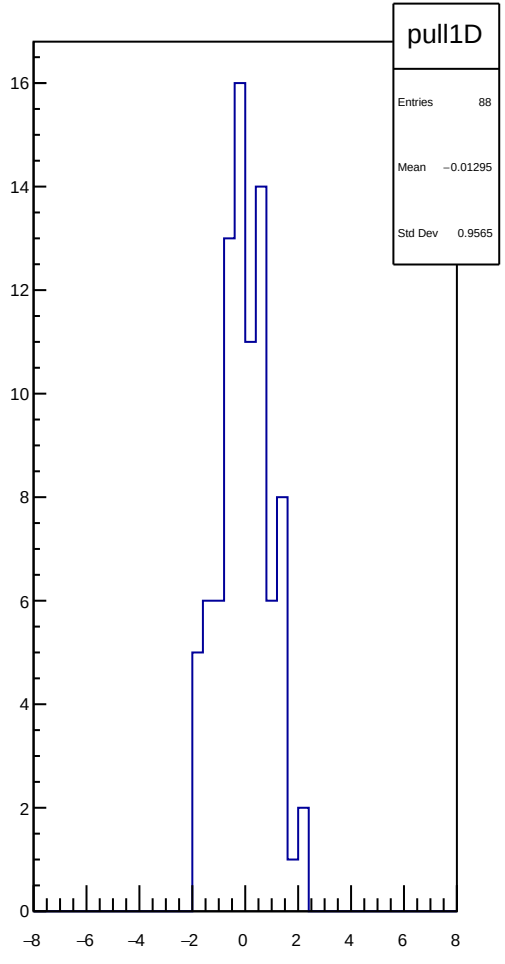

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2695 / 87
p0 571.8 ± 0.4449
640
620
600
580
560
540
520

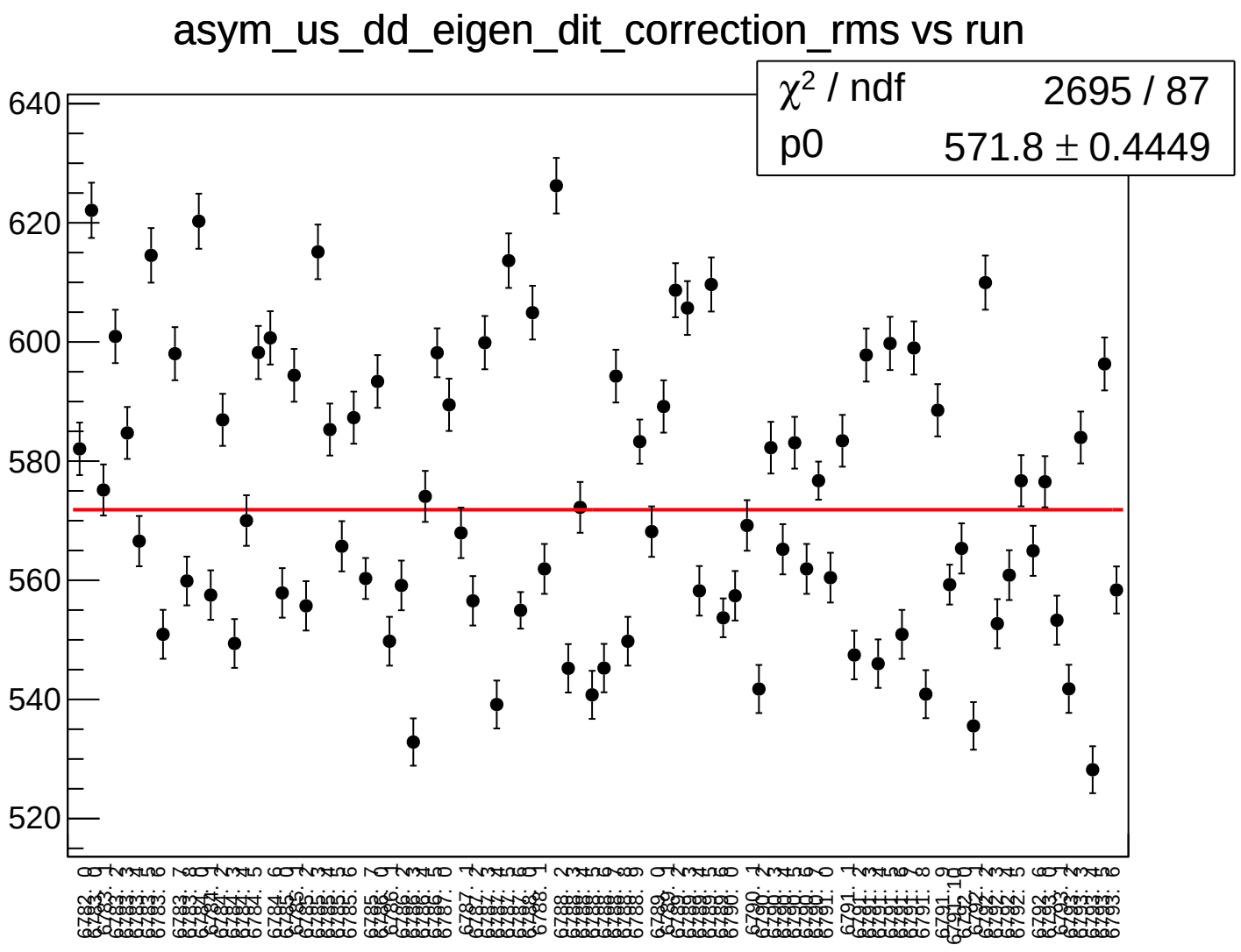

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 92.6 / 87
p0 −807.1 ± 848.9
pull
Entries 88
Mean 419.3
Std Dev 0

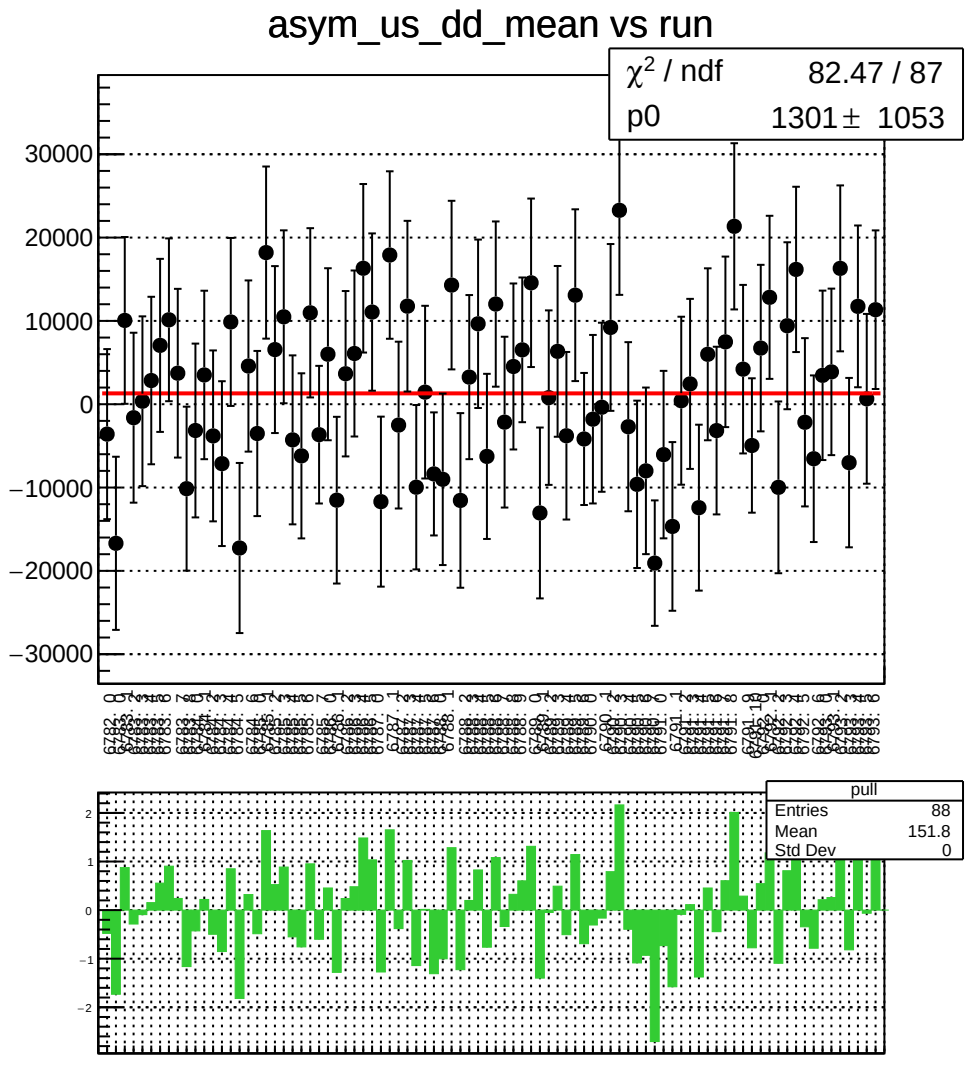

pull1D
Entries 88
Mean 0.0145
Std Dev 1.026

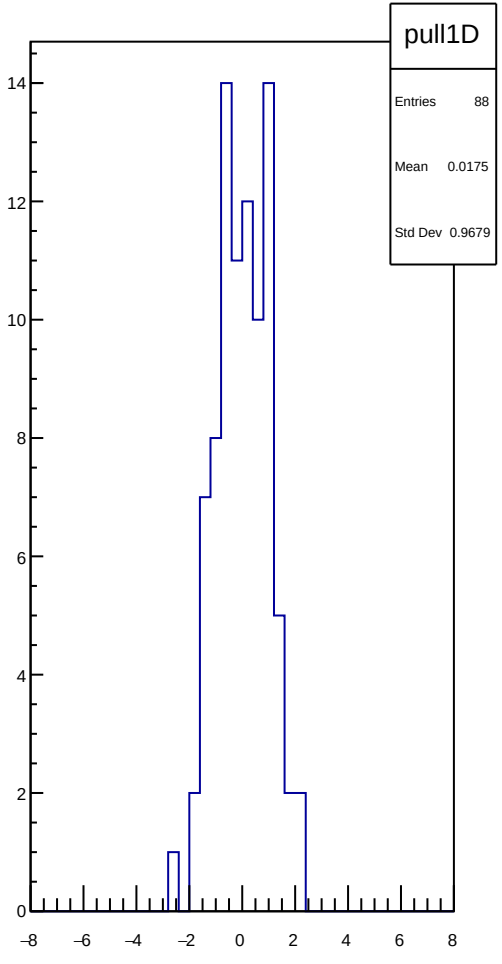

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 106.5 / 87
p0 772.2 ± 0.6003
790
780
770
760
750

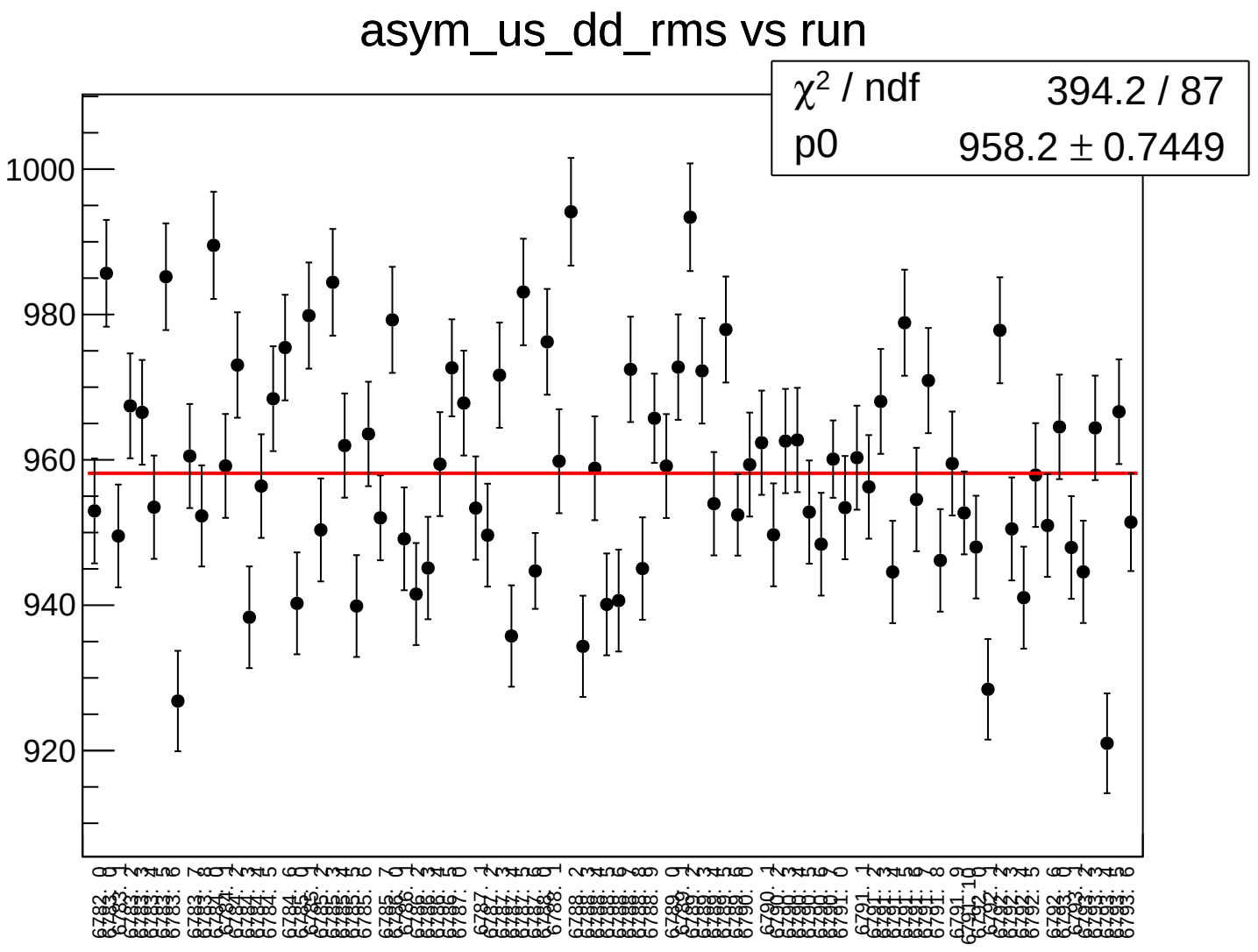

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.52 / 87
p0 −2069 ± 629.2
pull
Entries 88
Mean −287.1
Std Dev 0

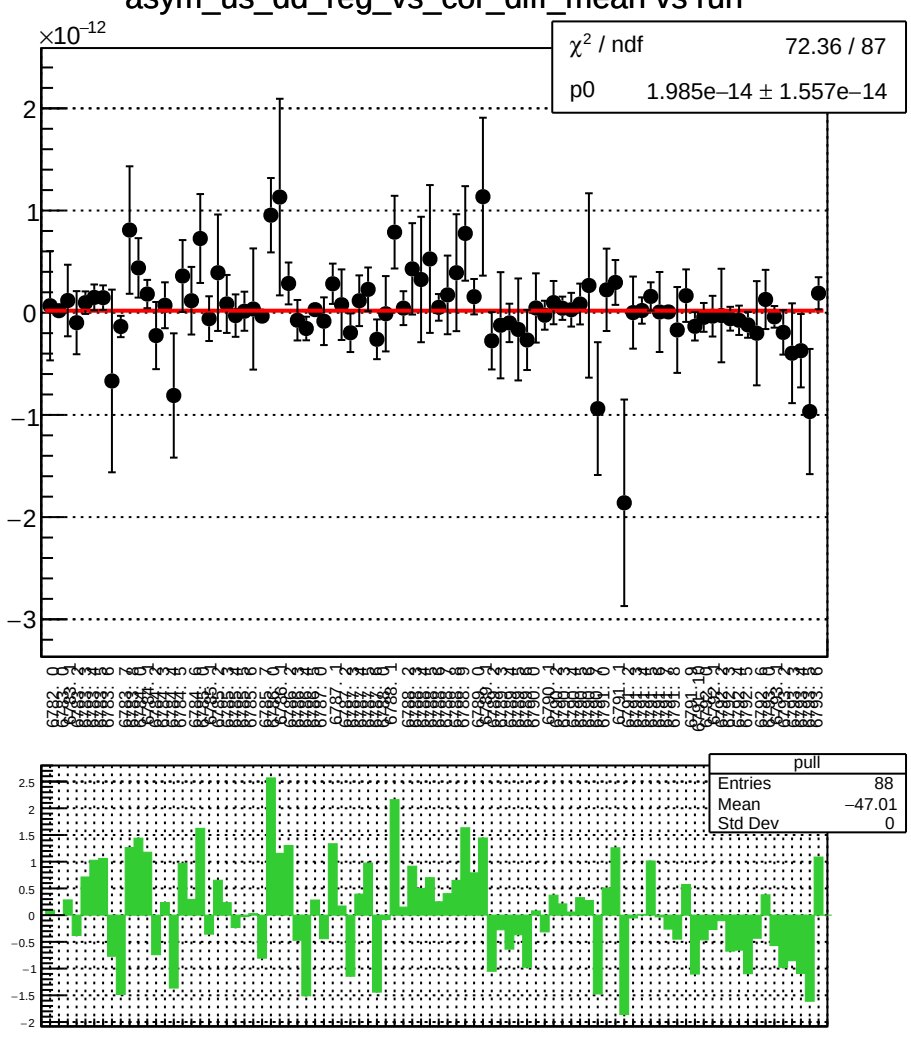

pull1D
Entries 88
Mean −0.01295
Std Dev 0.9565

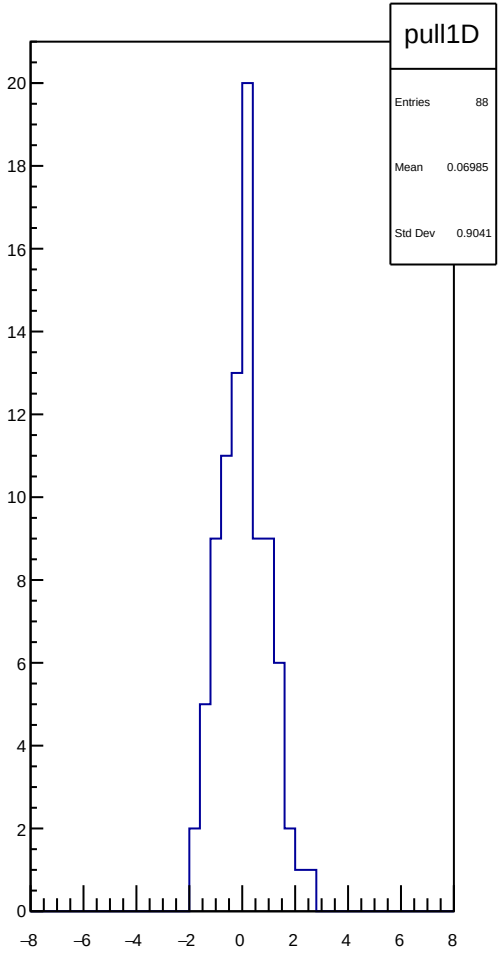

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2695 / 87
p0 571.8 ± 0.4449
640
620
600
580
560
540
520

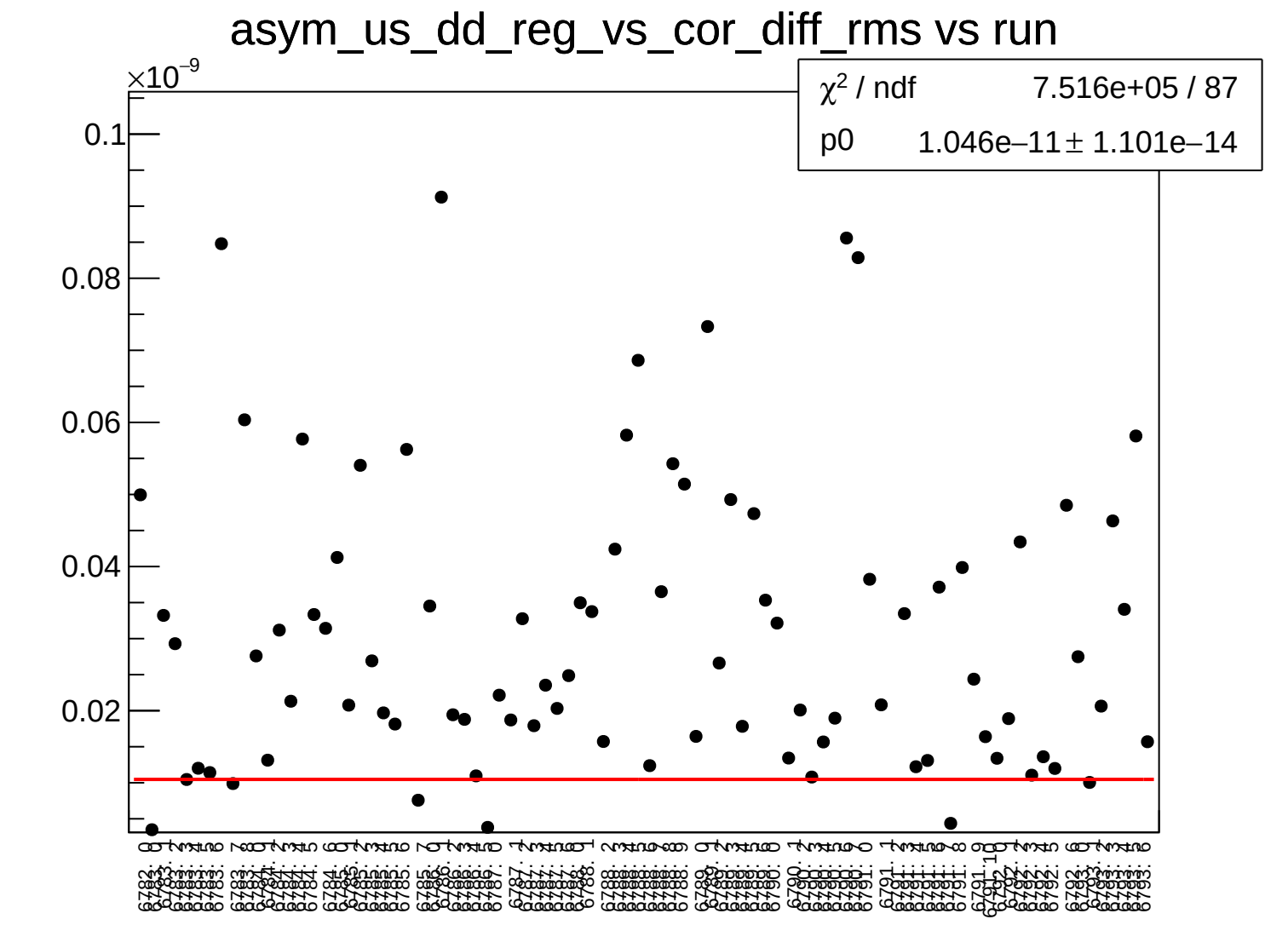

asym_us_dd_mean vs run
χ² / ndf 82.47 / 87
p0 1301 ± 1053
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 151.8
Std Dev 0
2
1
0
−1
−2

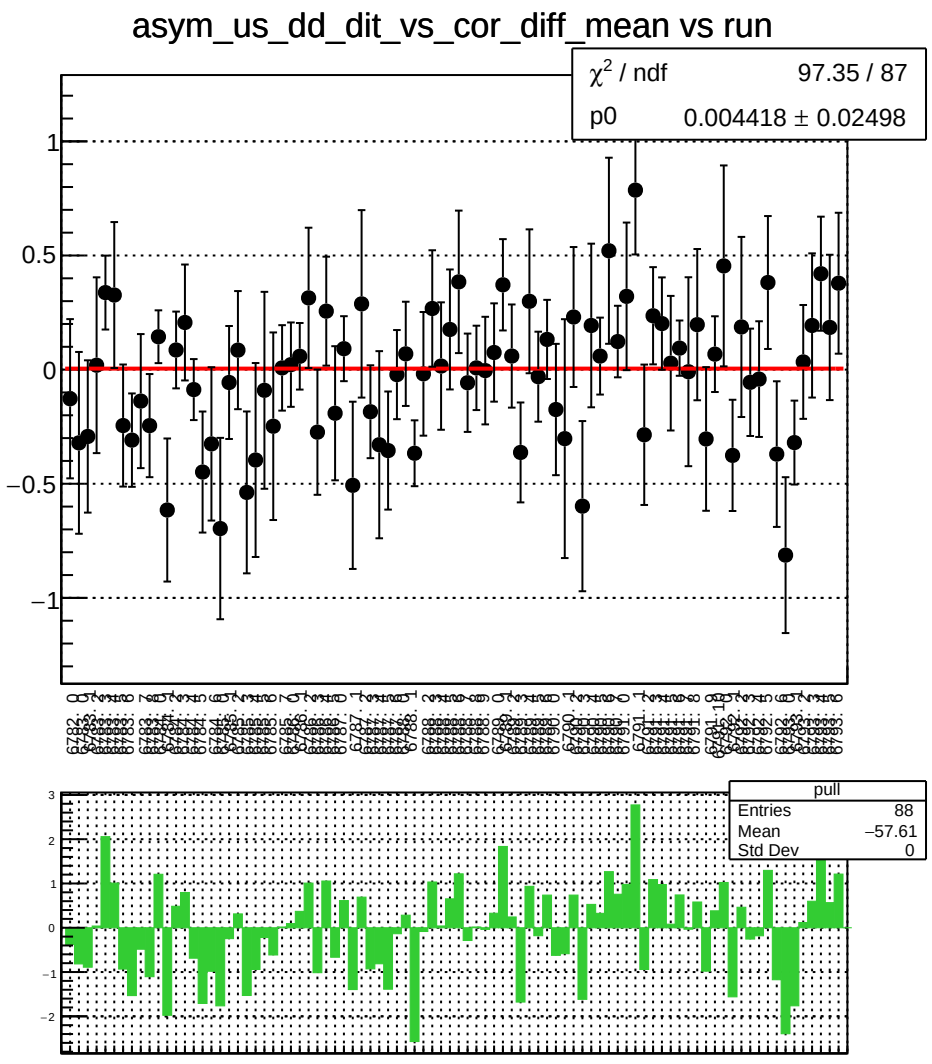

pull1D
Entries 88
Mean 0.0175
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

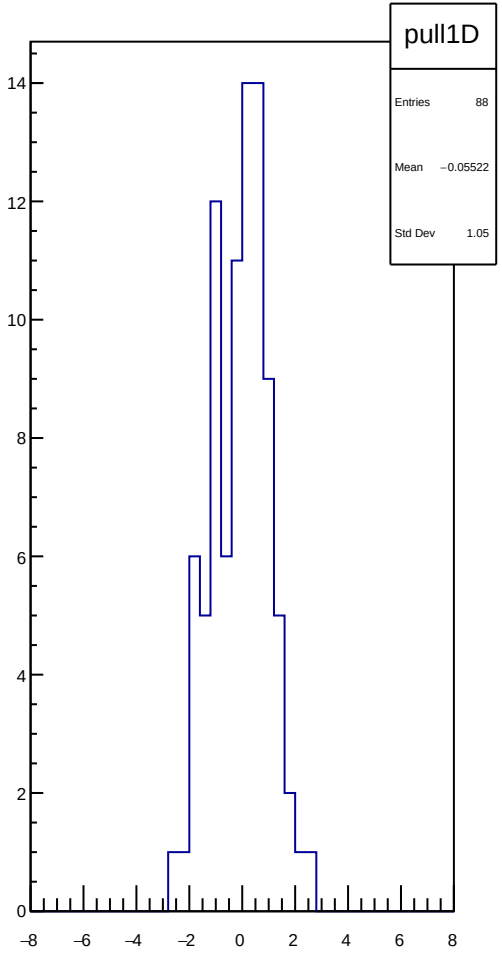

asym_us_dd_rms vs run
χ^2 / ndf 394.2 / 87
p0 958.2 ± 0.7449
1000
980
960
940
920

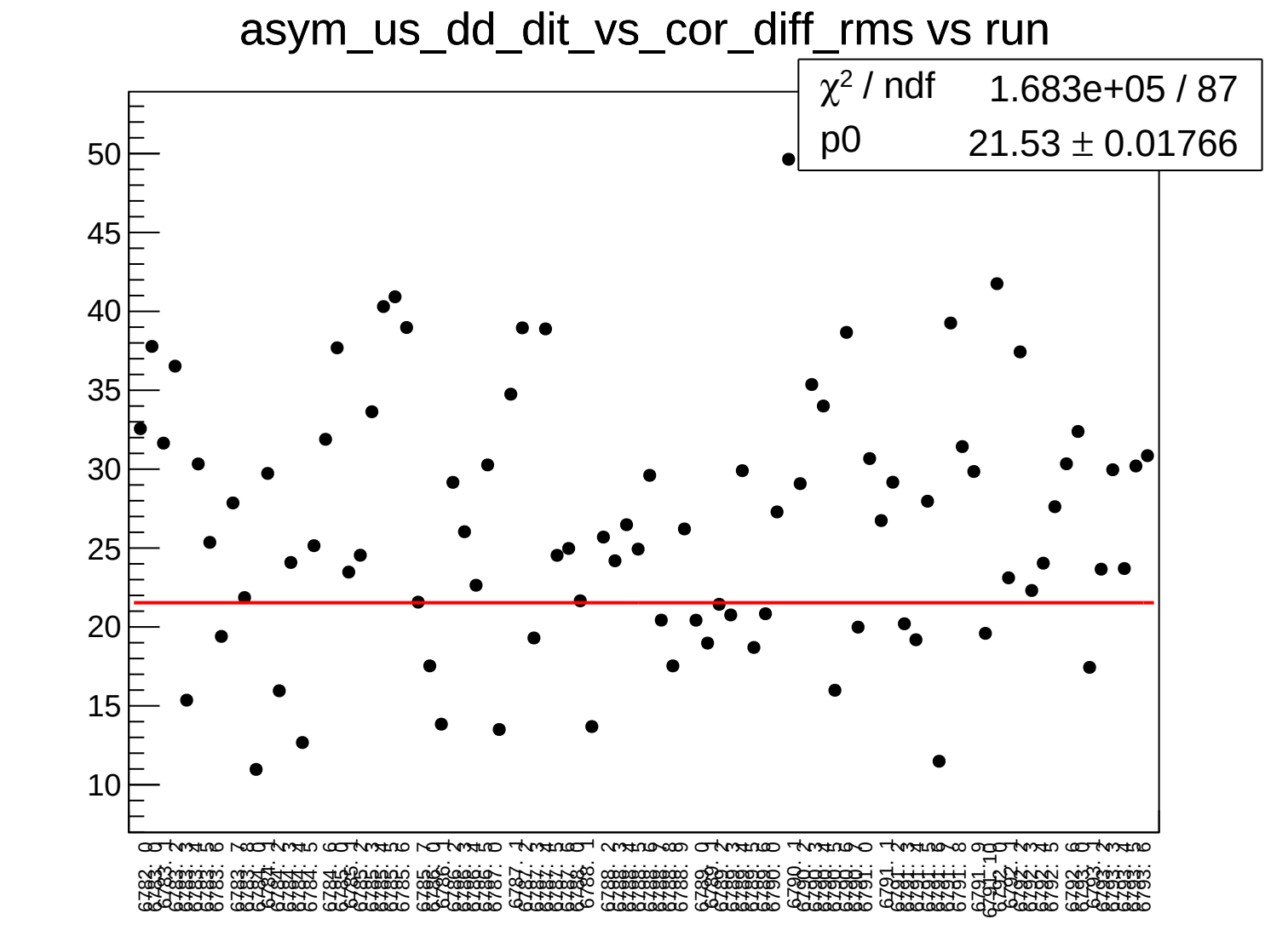

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.36 / 87
p0 1.985e−14 ± 1.557e−14
pull
Entries 88
Mean −47.01
Std Dev 0

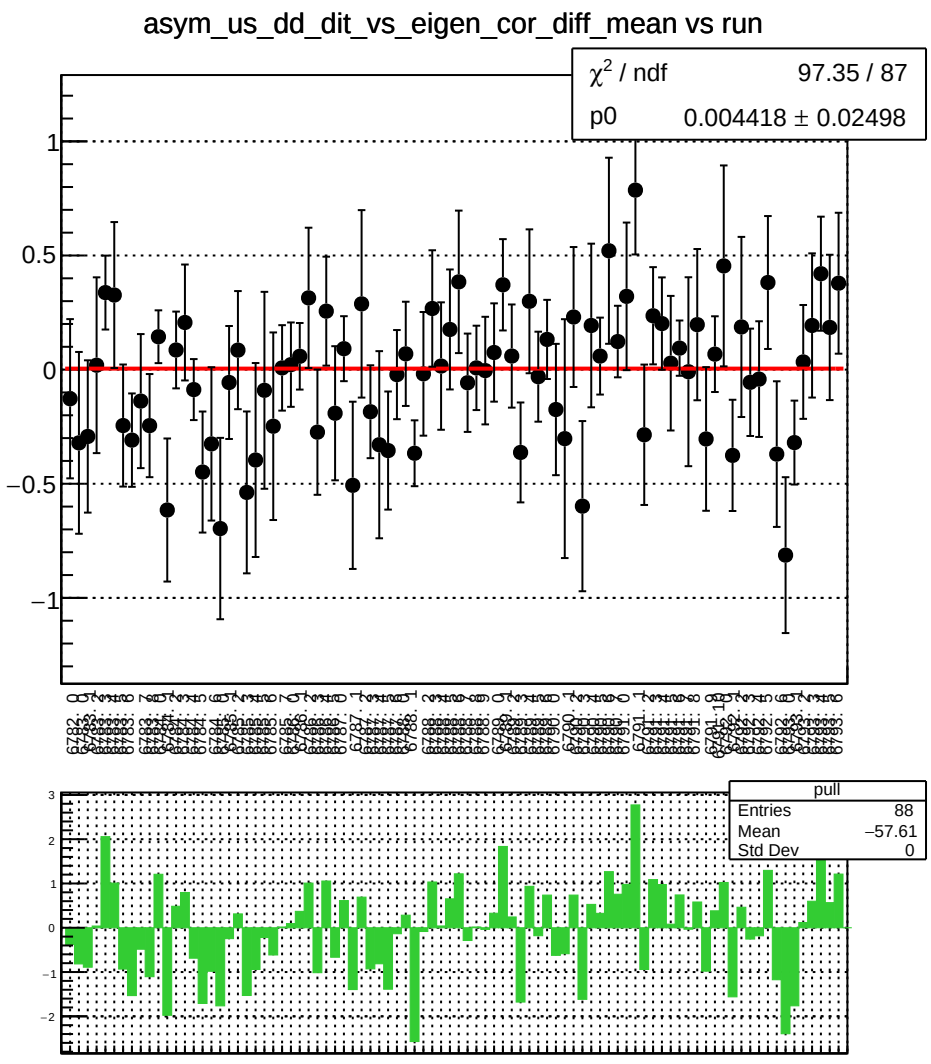

pull1D
Entries 88
Mean 0.06985
Std Dev 0.9041

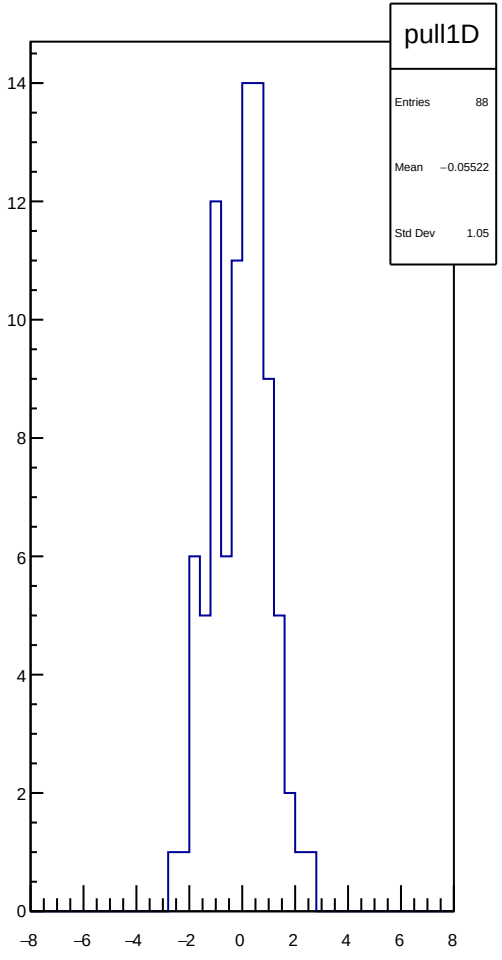

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.516e+05 / 87
p0 1.046e−11 ± 1.101e−14
0.1
0.08
0.06
0.04
0.02

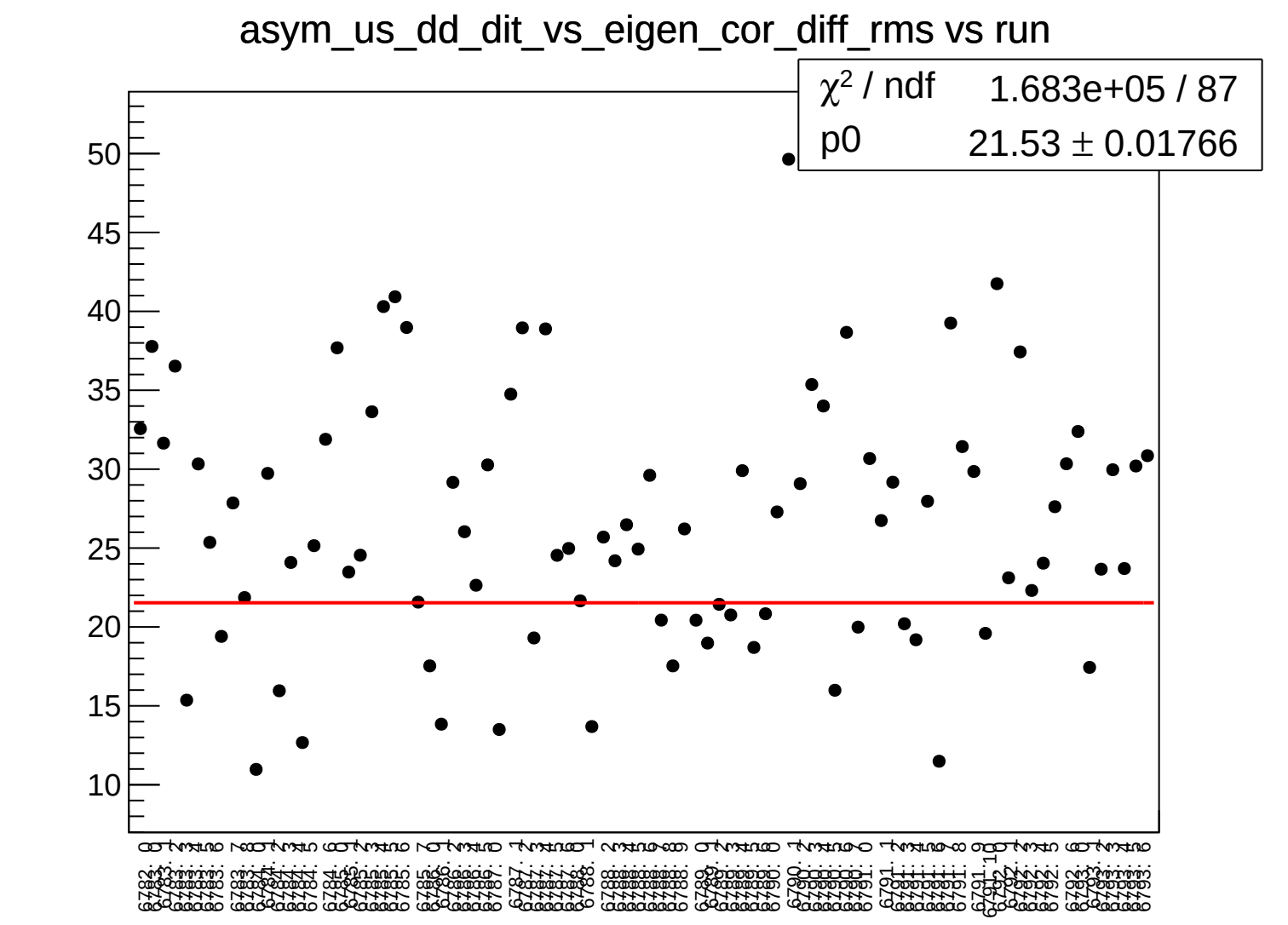

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.35 / 87
p0 0.004418 ± 0.02498
pull
Entries 88
Mean −57.61
Std Dev 0

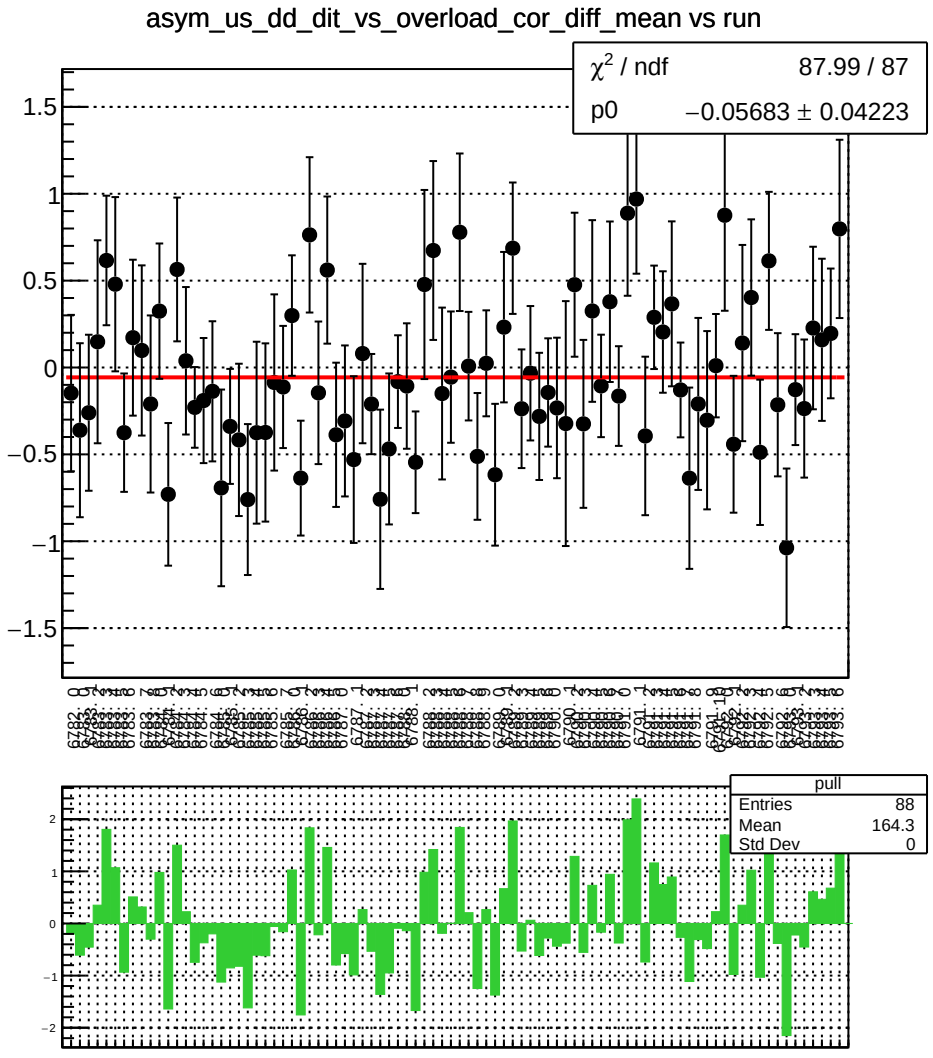

pull1D
Entries 88
Mean −0.05522
Std Dev 1.05

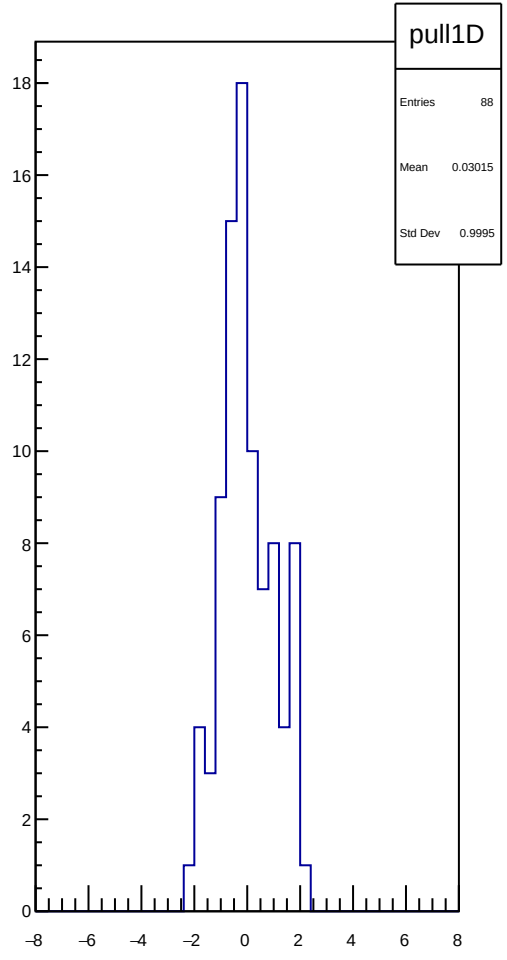

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 87
p0 21.53 ± 0.01766
50
45
40
35
30
25
20
15
10

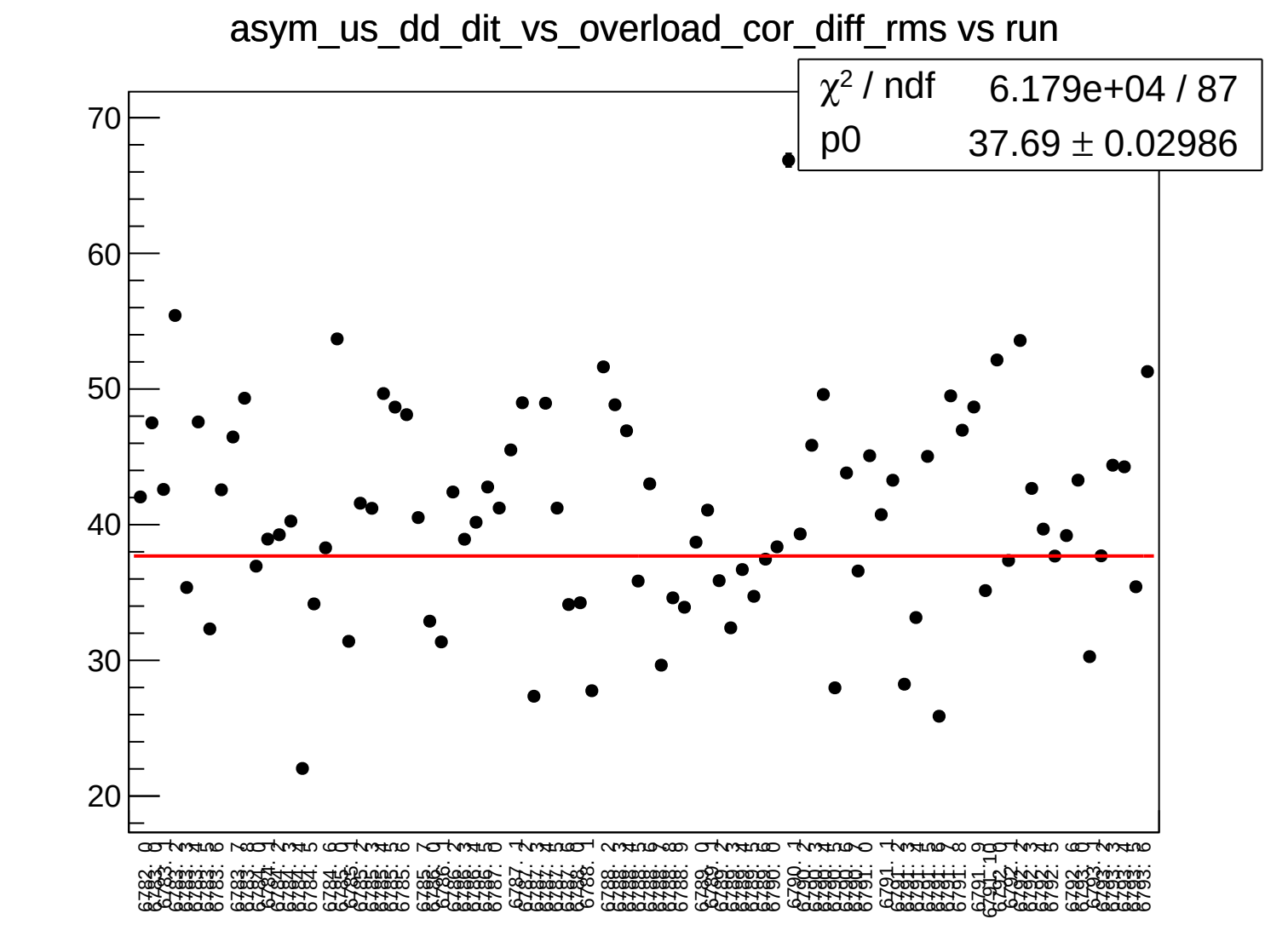

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.35 / 87
p0 0.004418 ± 0.02498
pull
Entries 88
Mean −57.61
Std Dev 0

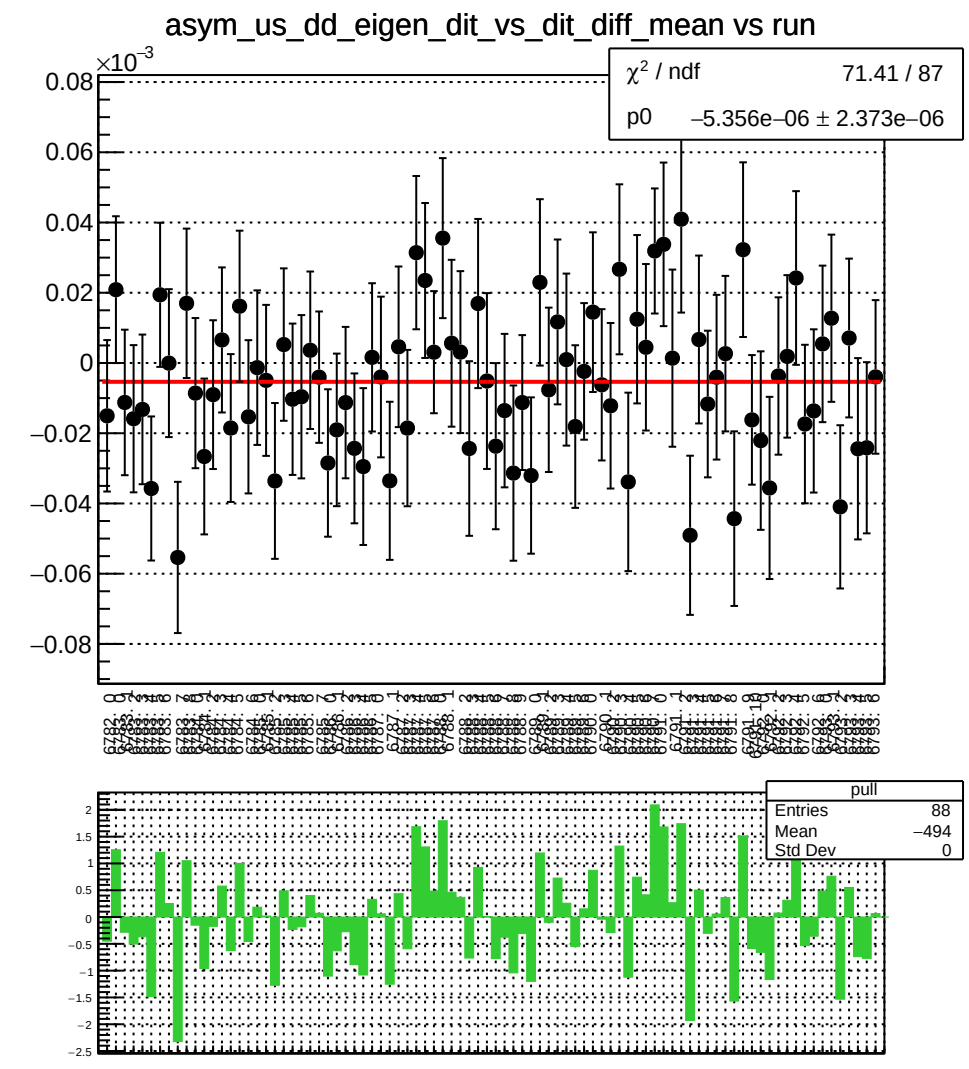

pull1D
Entries 88
Mean −0.05522
Std Dev 1.05

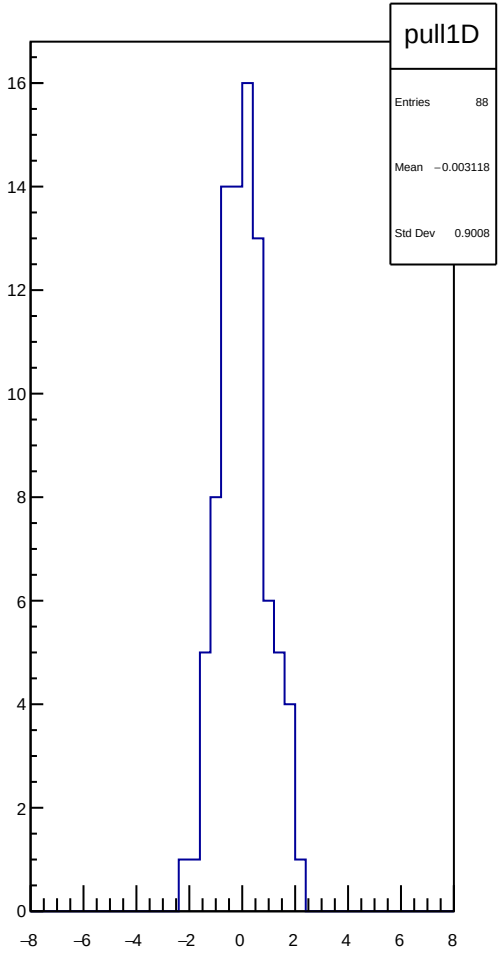

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 87
p0 21.53 ± 0.01766
50
45
40
35
30
25
20
15
10

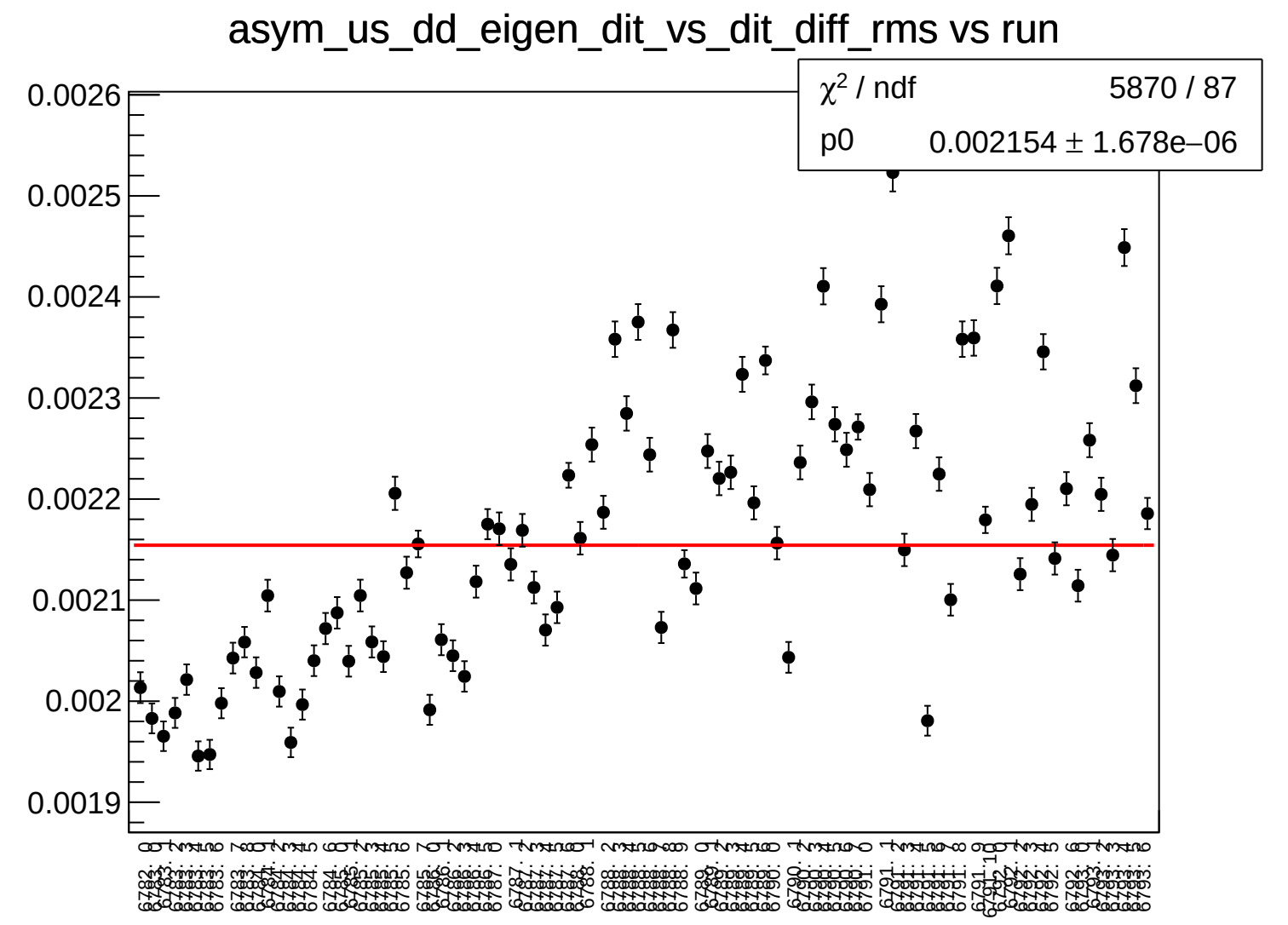

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.99 / 87
p0 −0.05683 ± 0.04223
pull
Entries 88
Mean 164.3
Std Dev 0

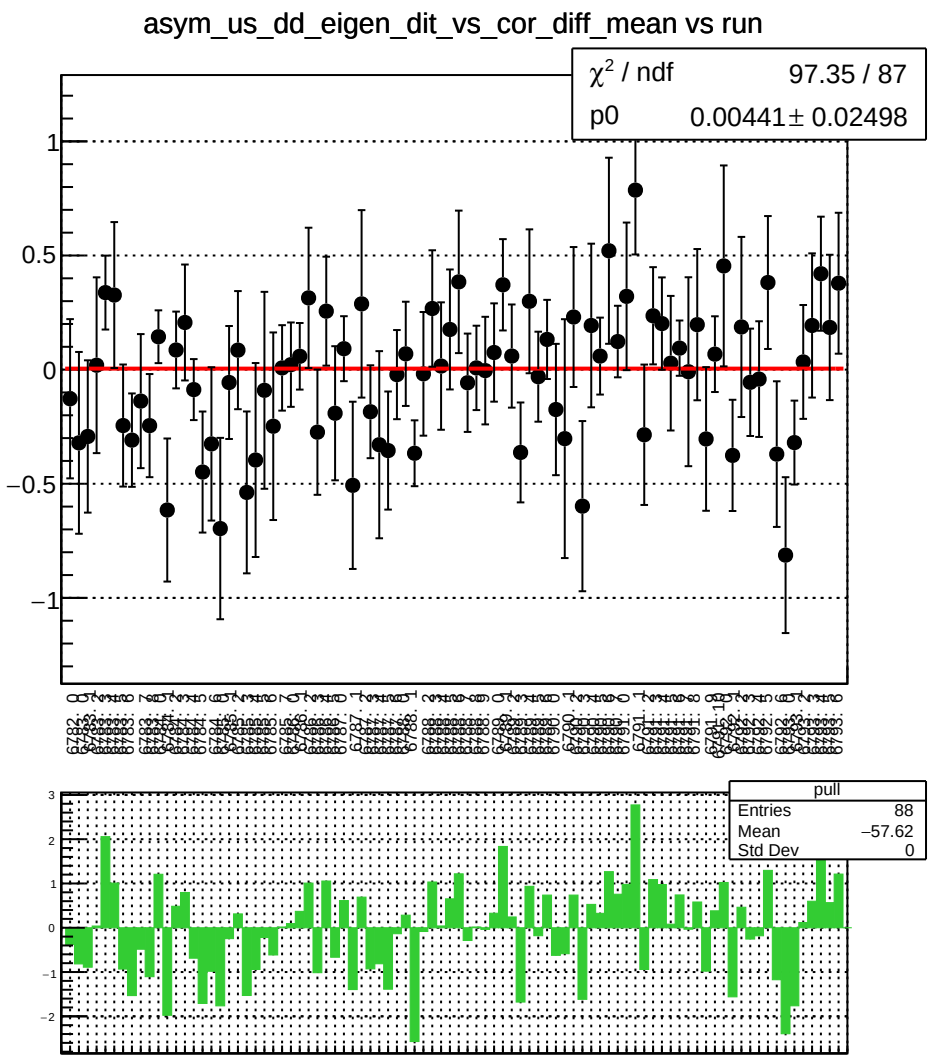

pull1D
Entries 88
Mean 0.03015
Std Dev 0.9995

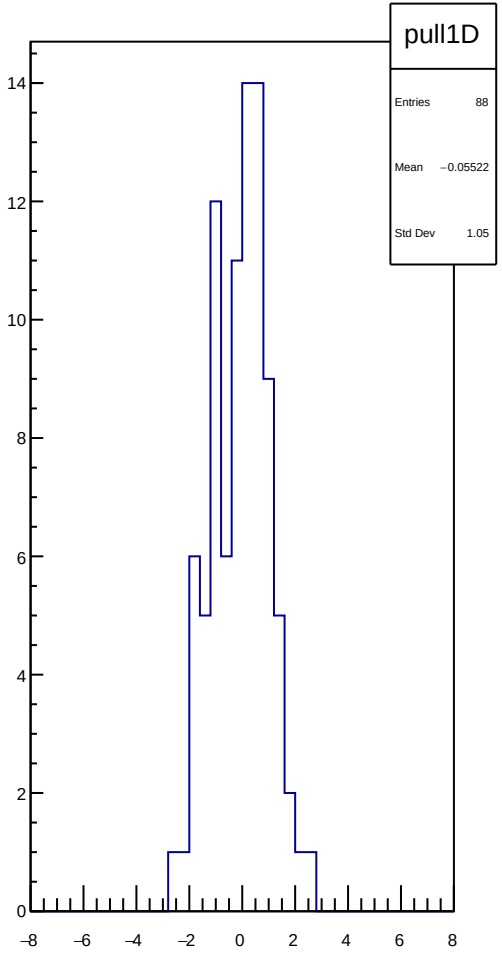

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.179e+04 / 87
p0 37.69 ± 0.02986
70
60
50
40
30
20

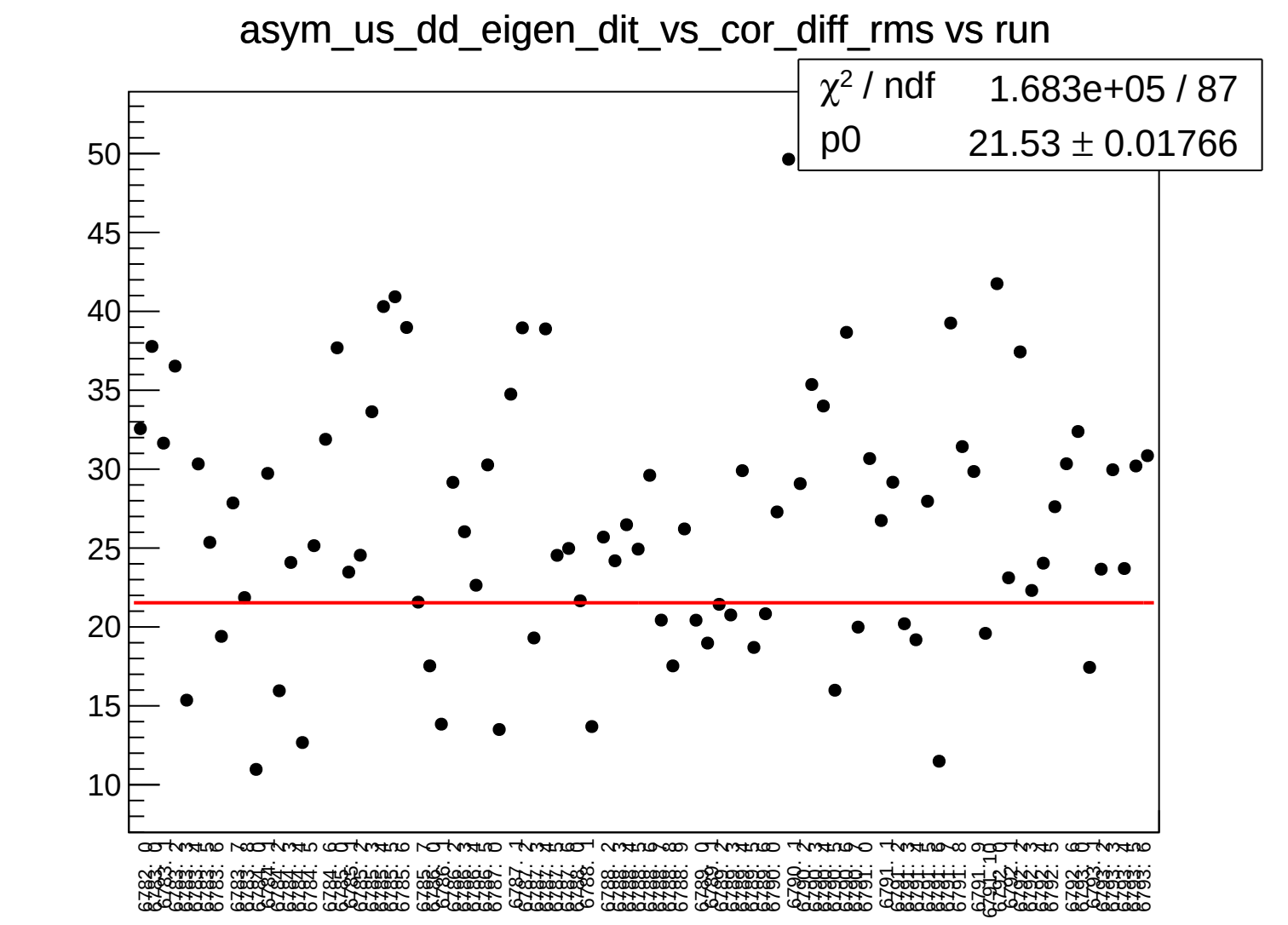

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.41 / 87
p0 −5.356e−06 ± 2.373e−06
pull
Entries 88
Mean −494
Std Dev 0

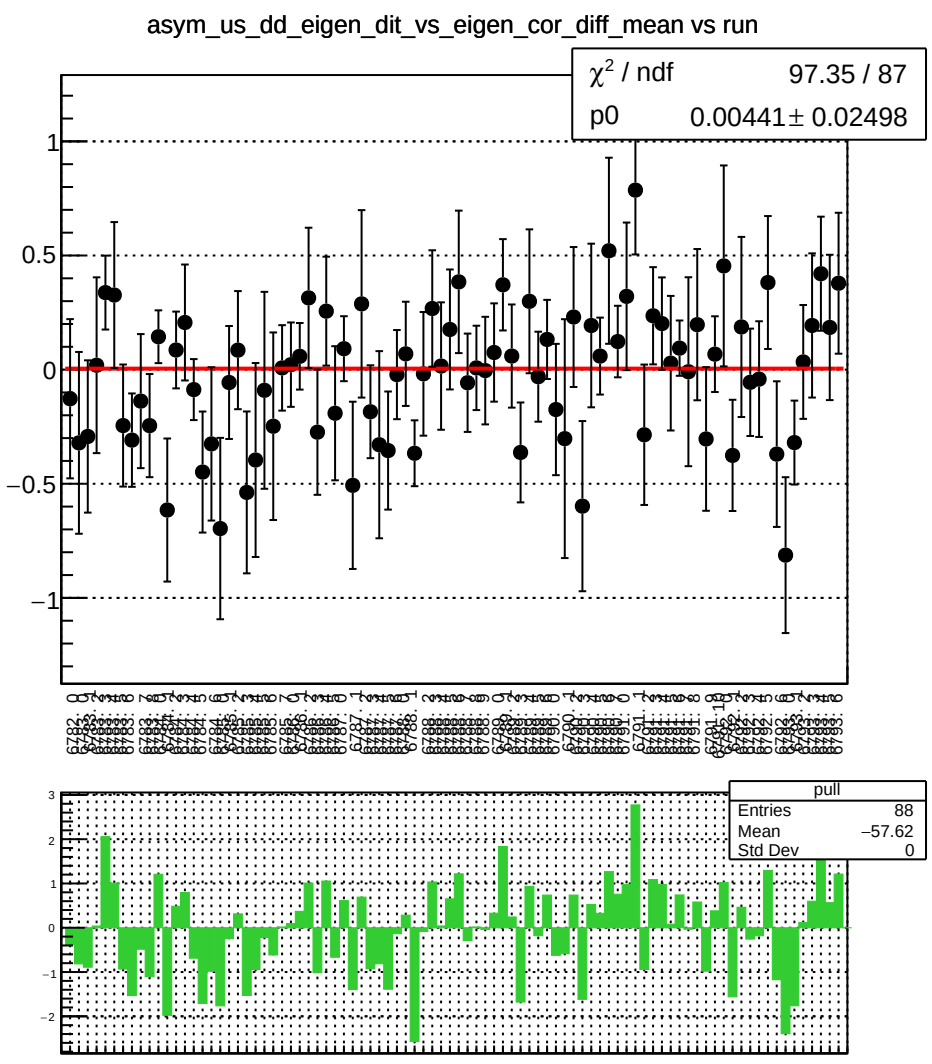

pull1D
Entries 88
Mean −0.003118
Std Dev 0.9008

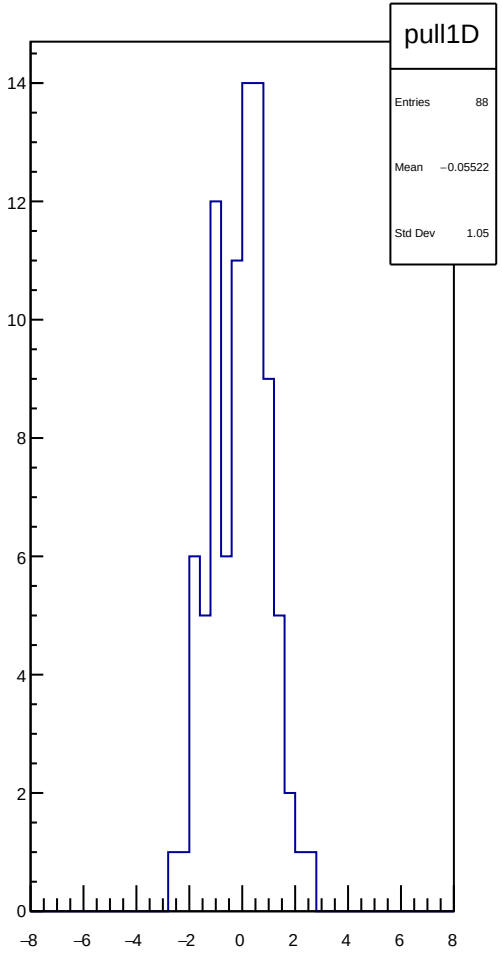

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5870 / 87
p0 0.002154 ± 1.678e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

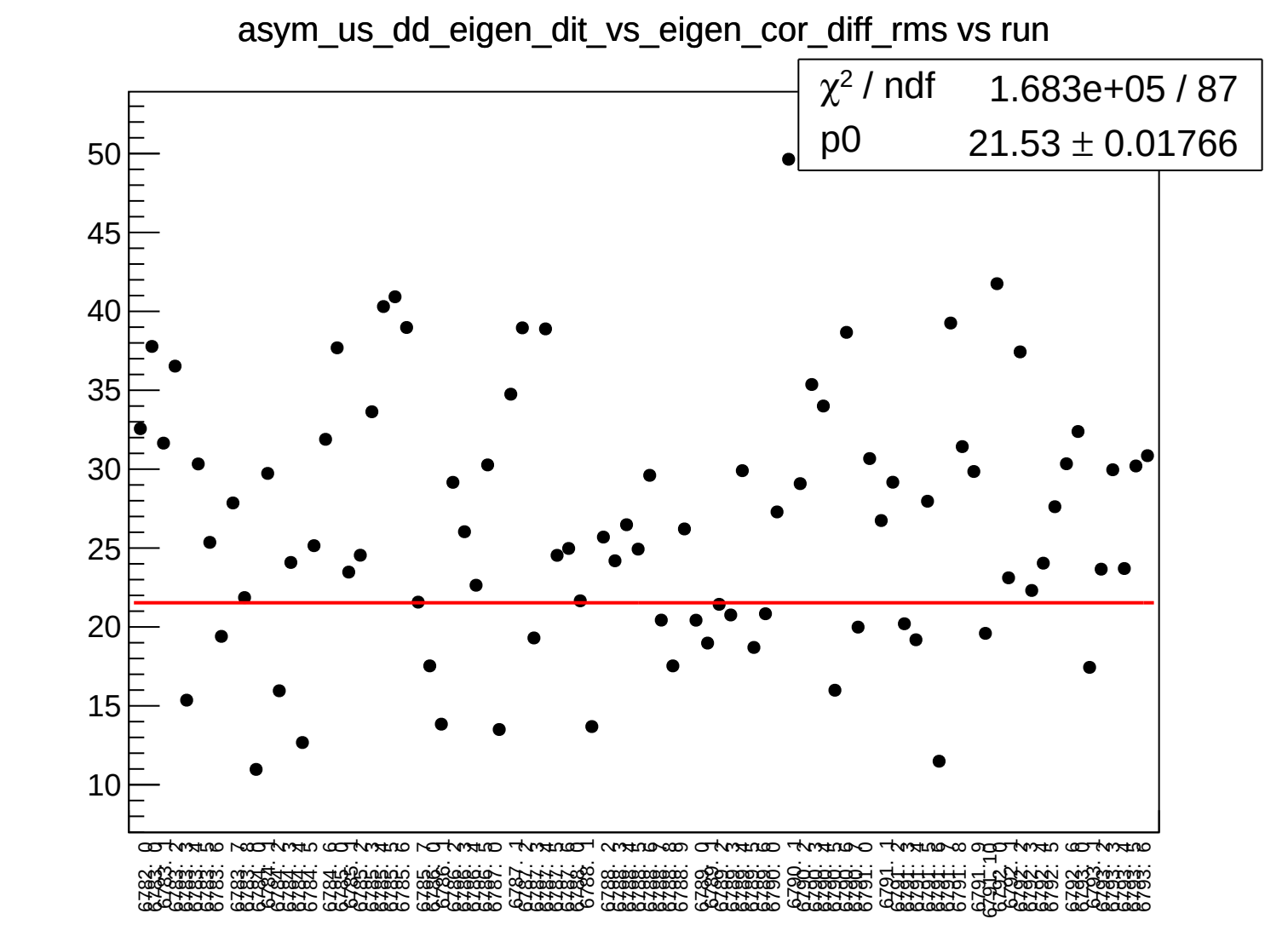

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.35 / 87
p0 0.00441 ± 0.02498
pull
Entries 88
Mean −57.62
Std Dev 0

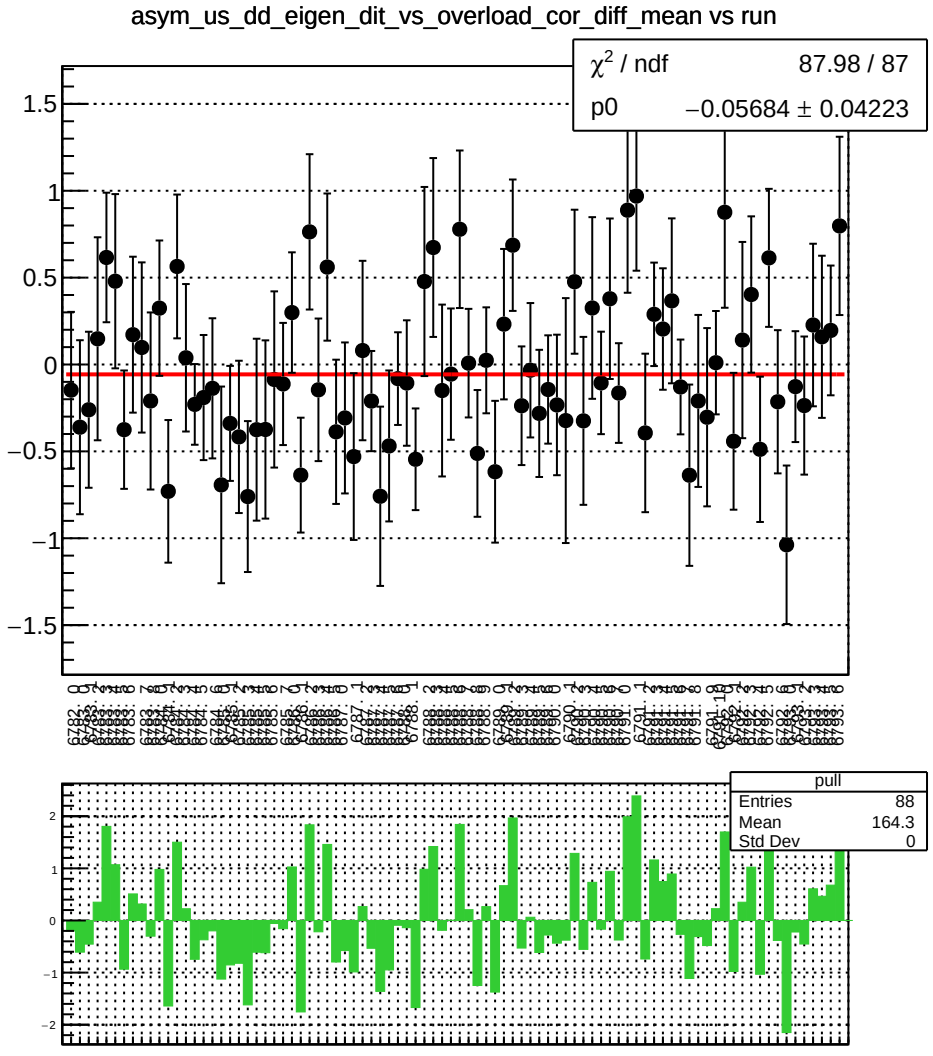

pull1D
Entries 88
Mean −0.05522
Std Dev 1.05

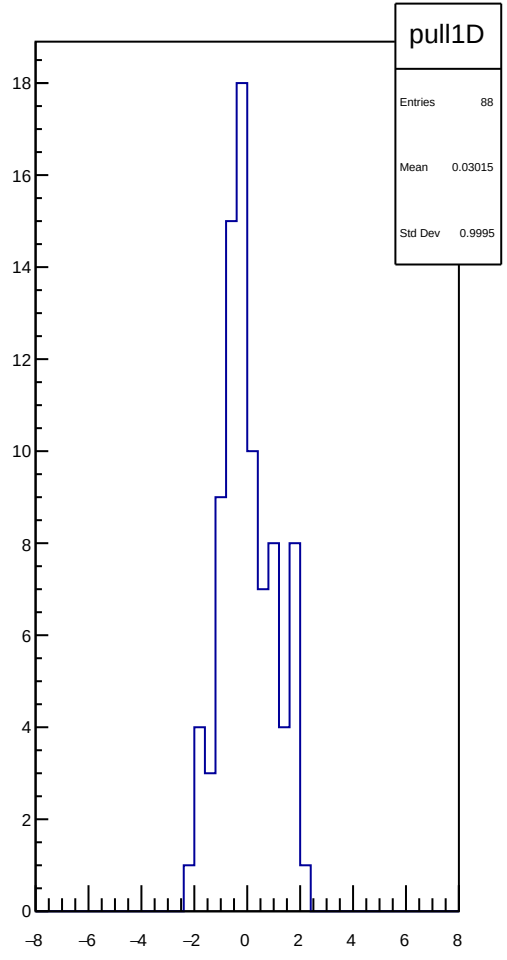

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 87
p0 21.53 ± 0.01766
50
45
40
35
30
25
20
15
10

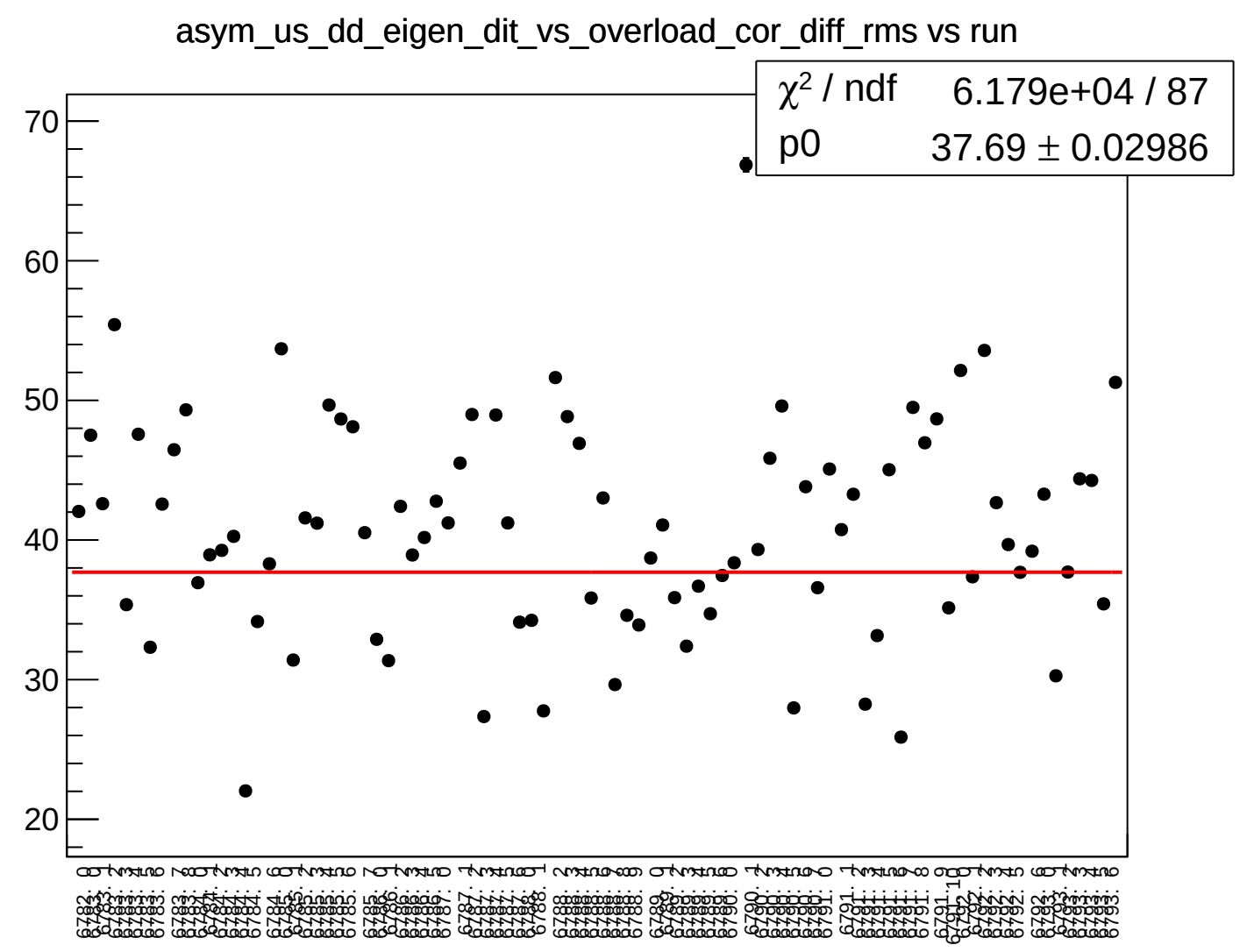

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.35 / 87
p0 0.00441 ± 0.02498
pull
Entries 88
Mean −57.62
Std Dev 0

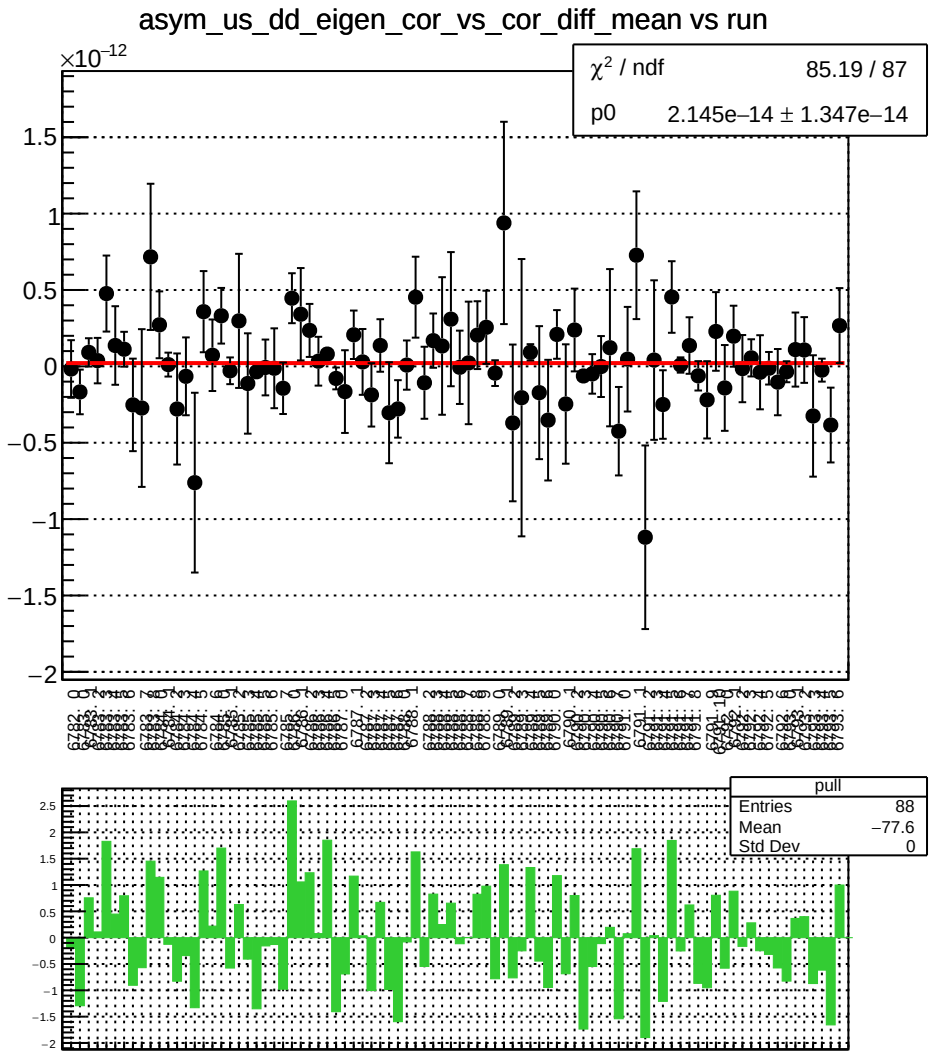

pull1D
Entries 88
Mean −0.05522
Std Dev 1.05

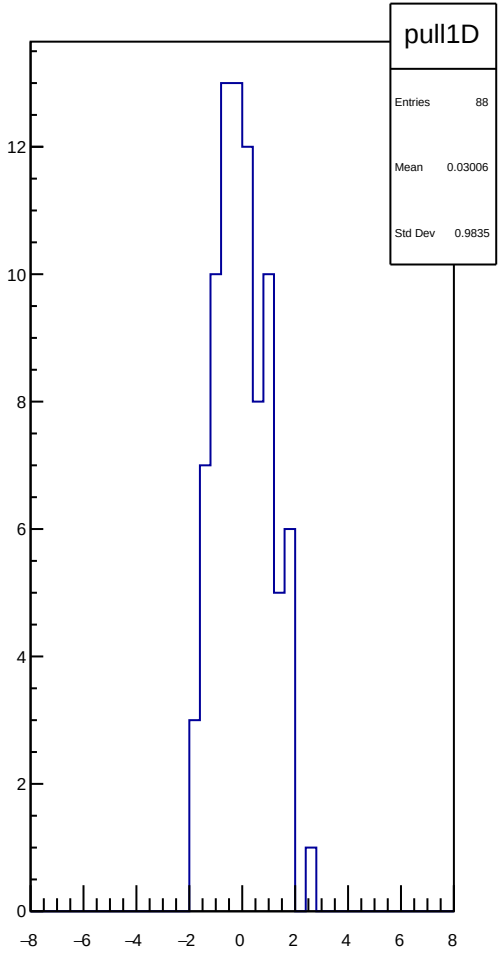

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 87
p0 21.53 ± 0.01766
50
45
40
35
30
25
20
15
10

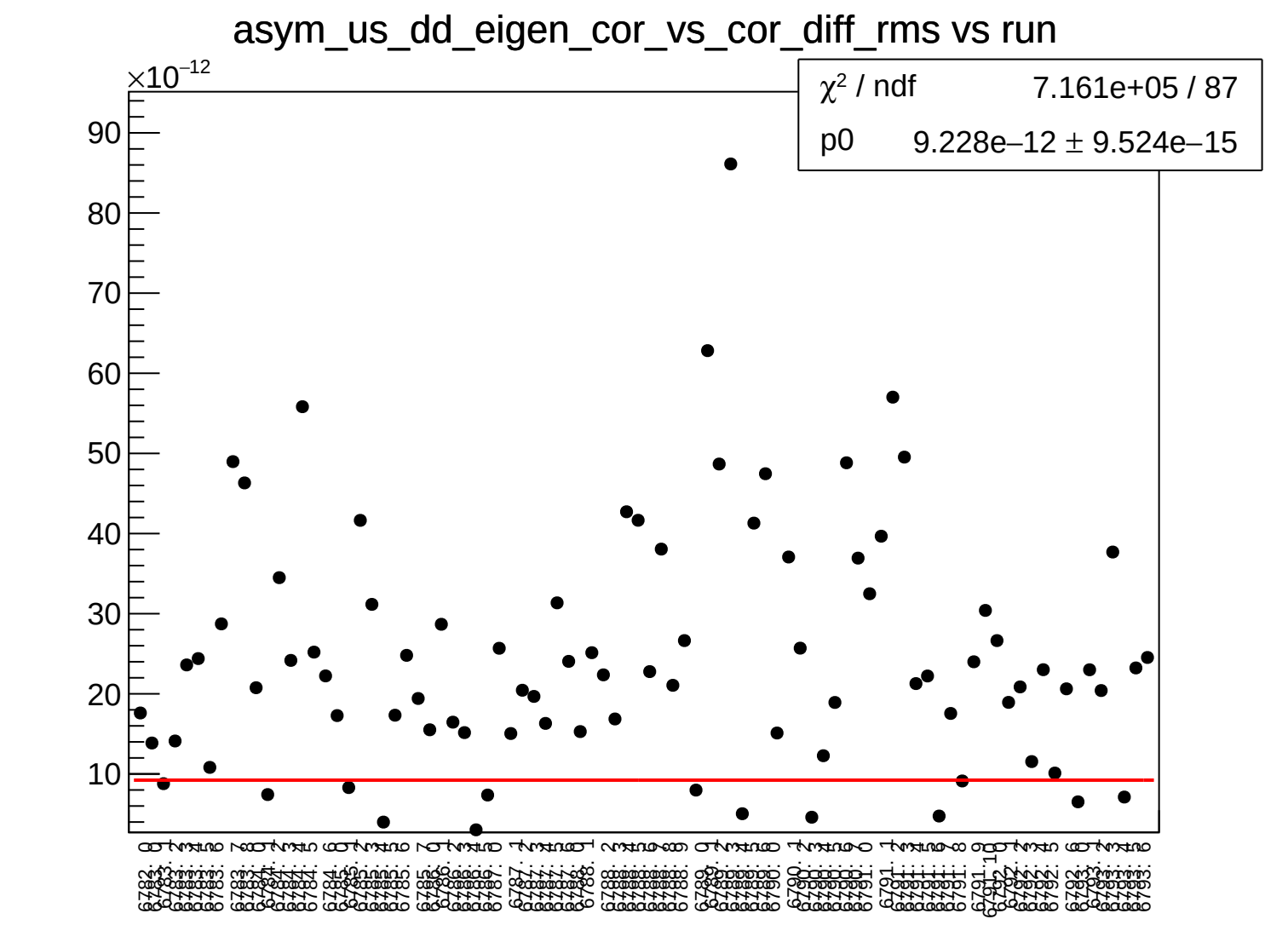

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.98 / 87
p0 −0.05684 ± 0.04223
pull
Entries 88
Mean 164.3
Std Dev 0

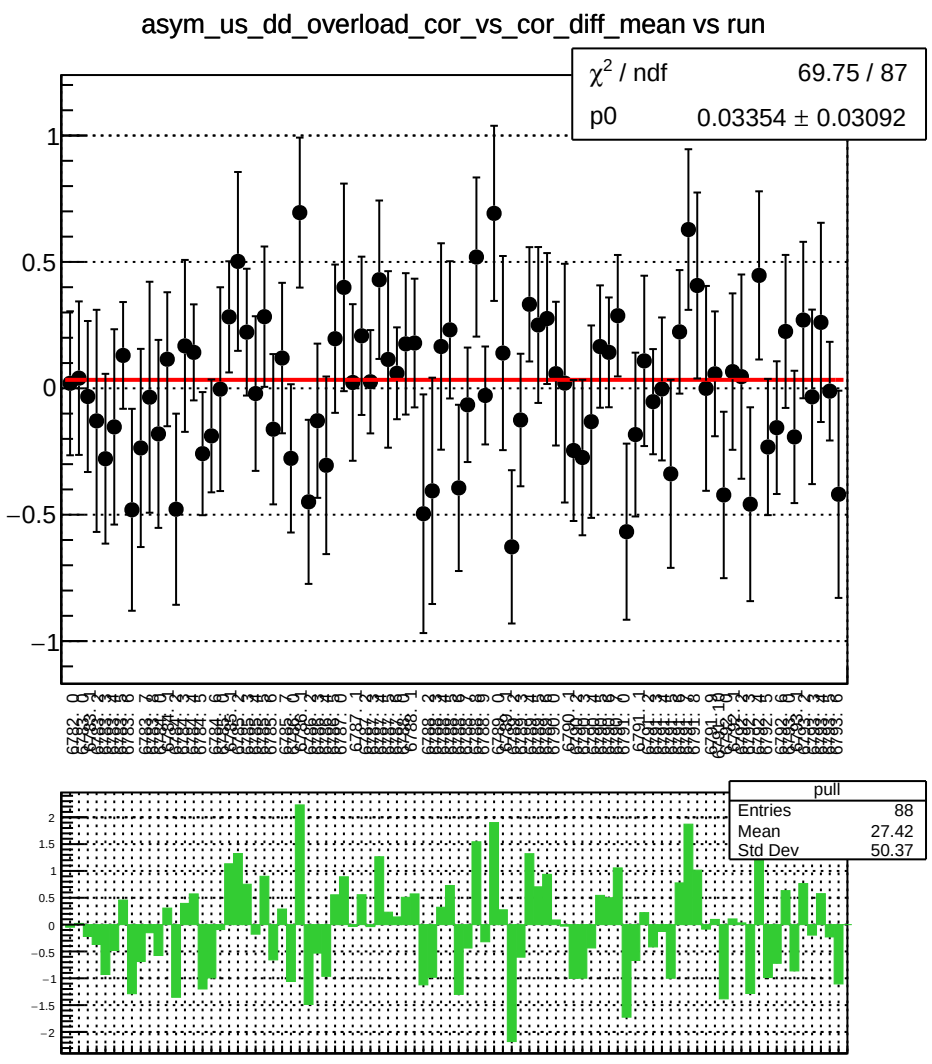

pull1D
Entries 88
Mean 0.03015
Std Dev 0.9995

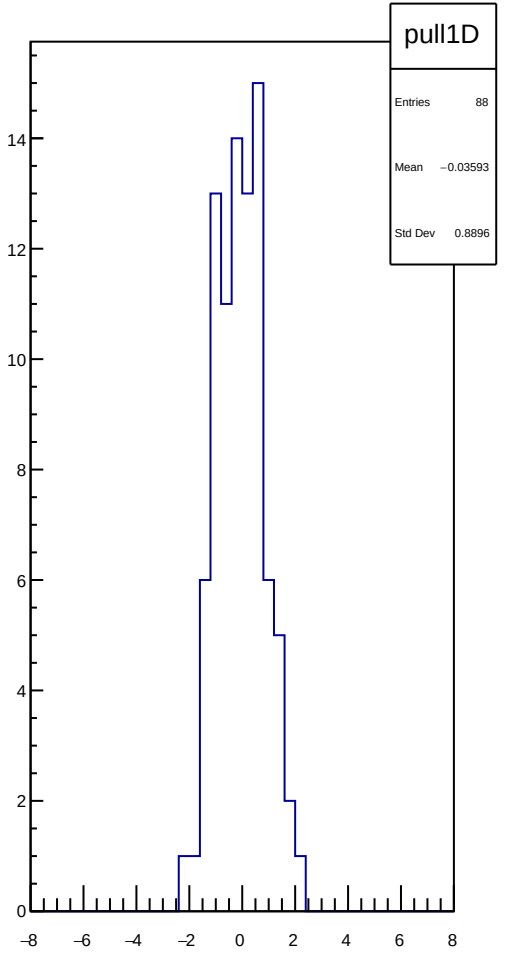

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.179e+04 / 87
p0 37.69 ± 0.02986
70
60
50
40
30
20

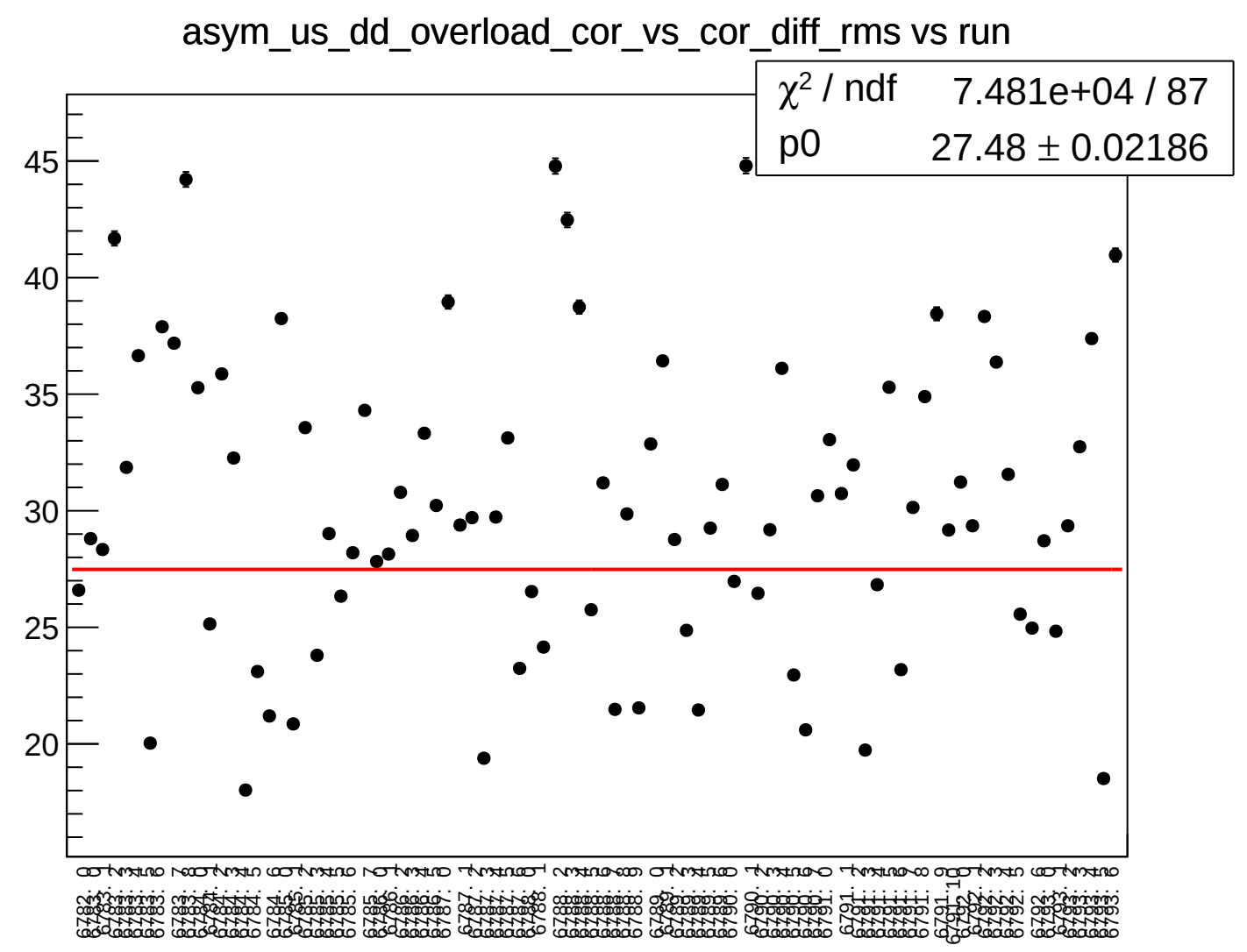

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.19 / 87
p0 2.145e−14 ± 1.347e−14
pull
Entries 88
Mean −77.6
Std Dev 0

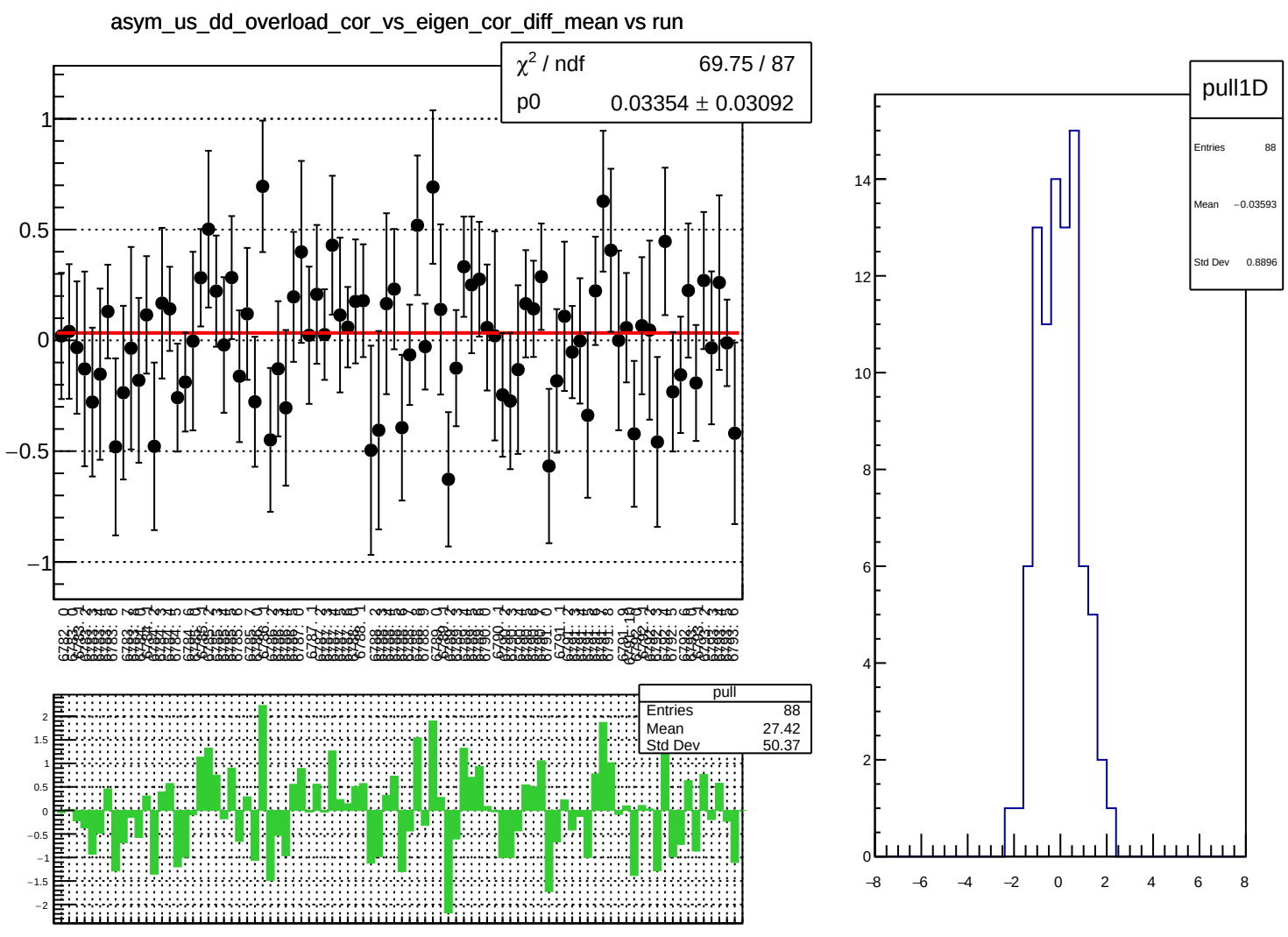

pull1D
Entries 88
Mean 0.03006
Std Dev 0.9835

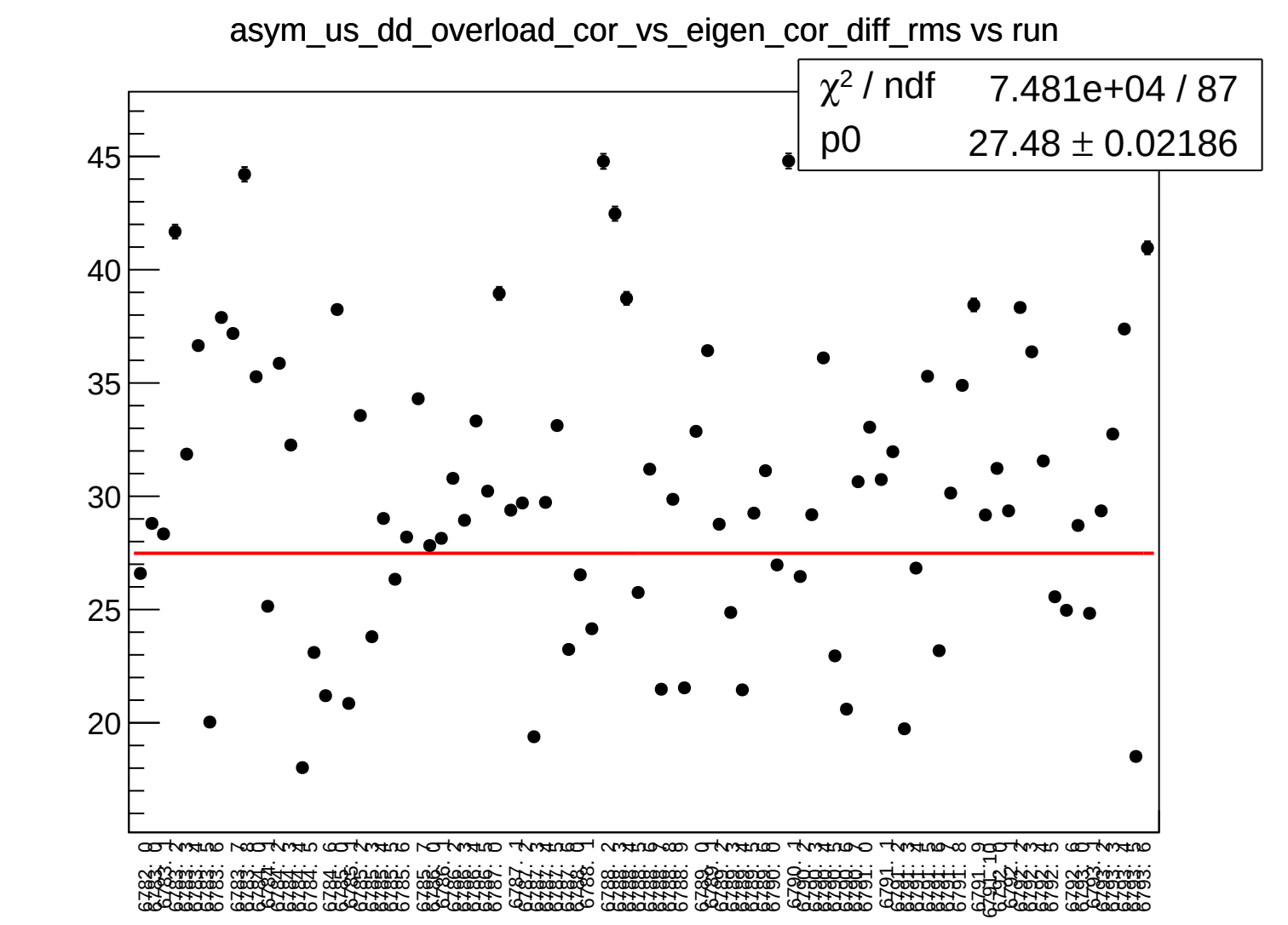

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.161e+05 / 87
p0 9.228e−12 ± 9.524e−15
90
80
70
60
50
40
30
20
10

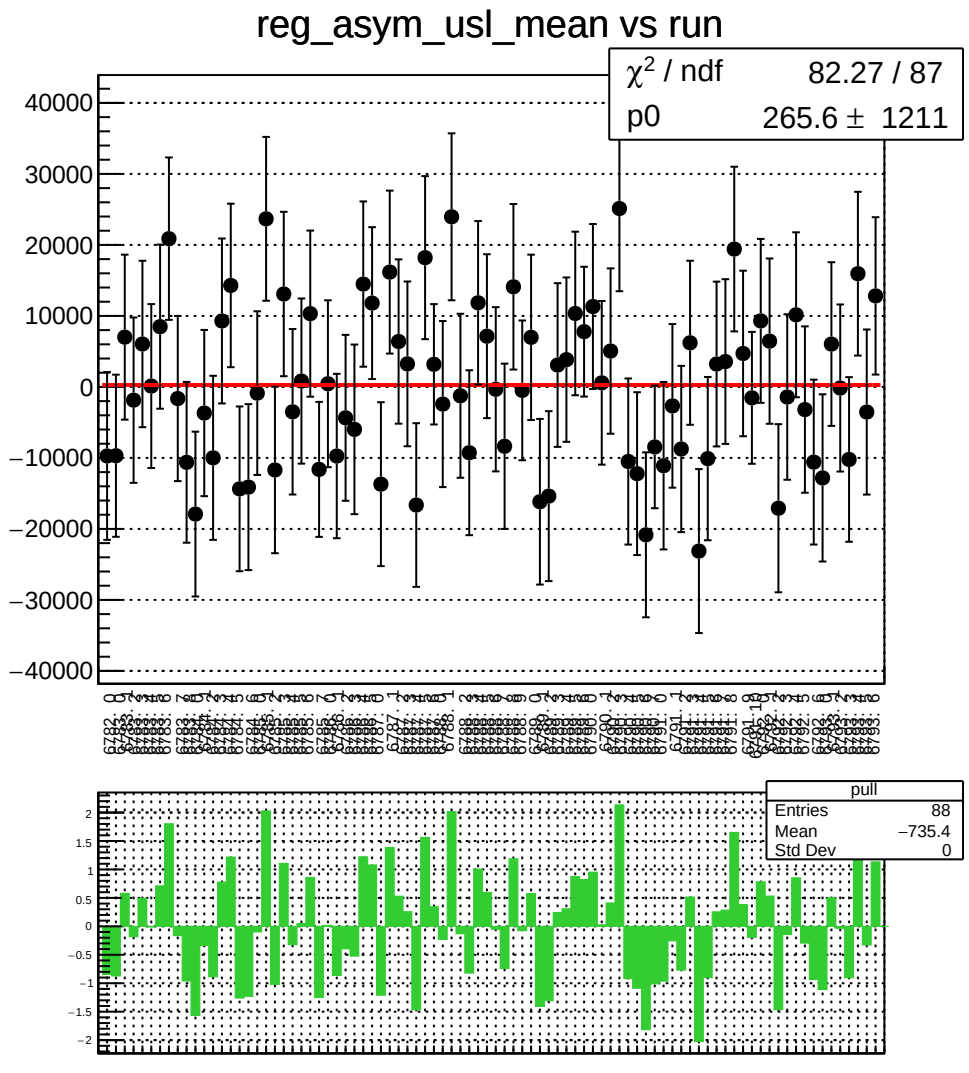

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 69.75 / 87
p0 0.03354 ± 0.03092
pull
Entries 88
Mean 27.42
Std Dev 50.37

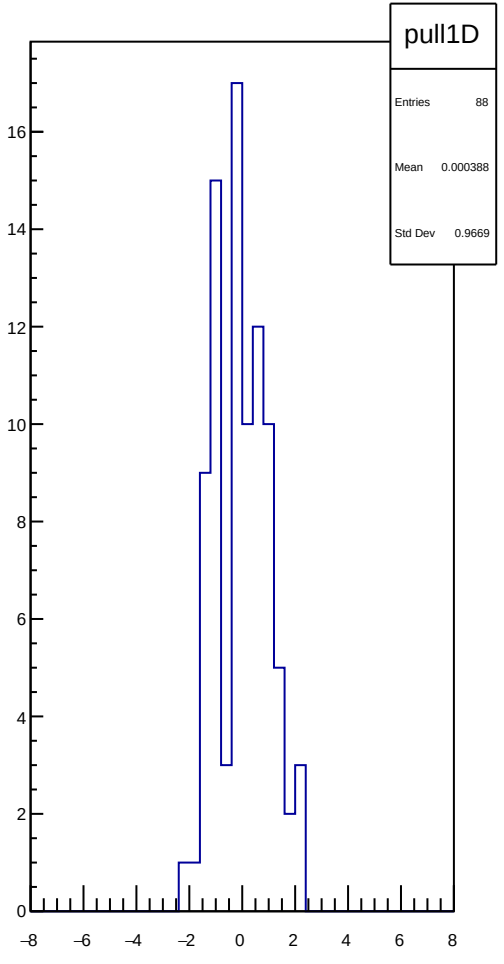

pull1D
Entries 88
Mean −0.03593
Std Dev 0.8896

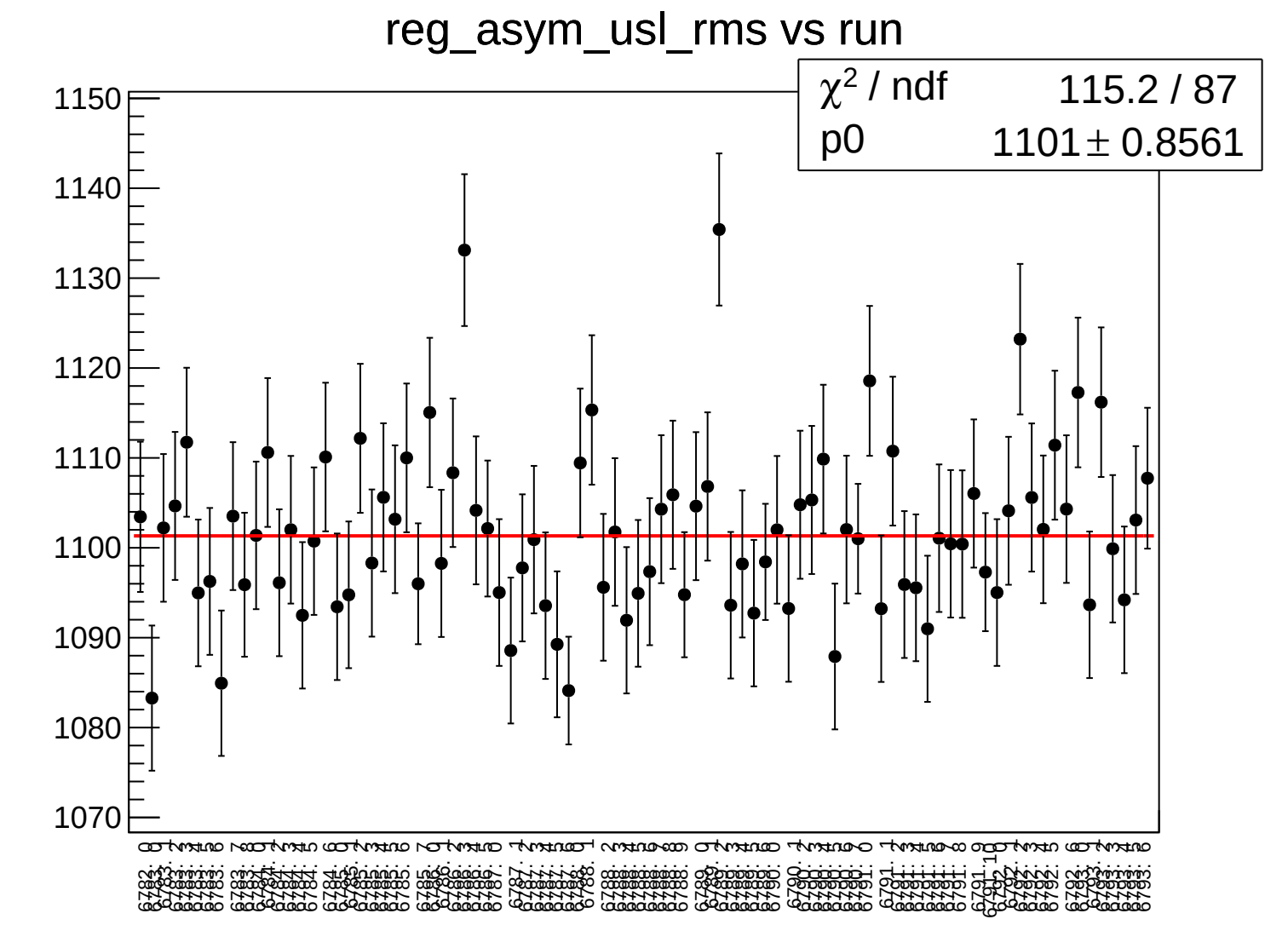

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.481e+04 / 87
p0 27.48 ± 0.02186
45
40
35
30
25
20

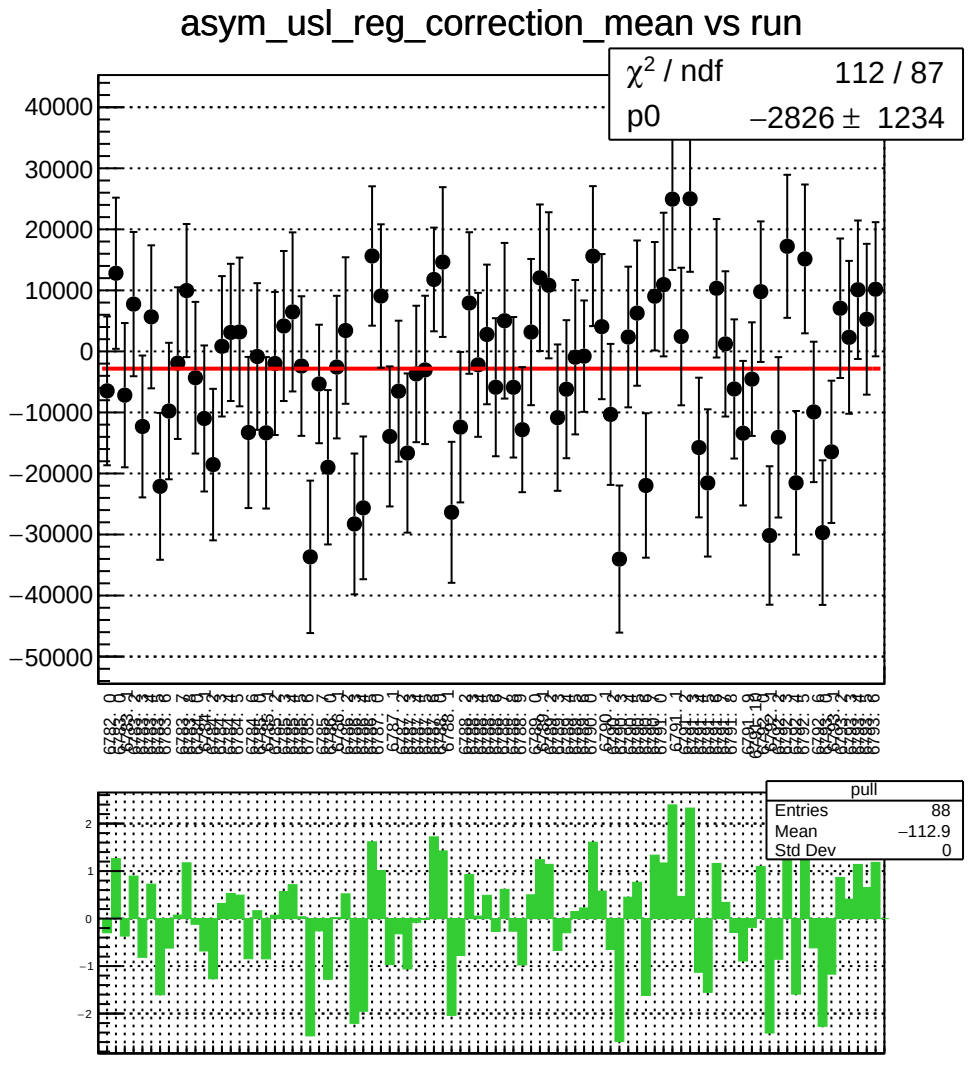

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.75 / 87
p0 0.03354 ± 0.03092
pull
Entries 88
Mean 27.42
Std Dev 50.37
pull1D
Entries 88
Mean −0.03593
Std Dev 0.8896

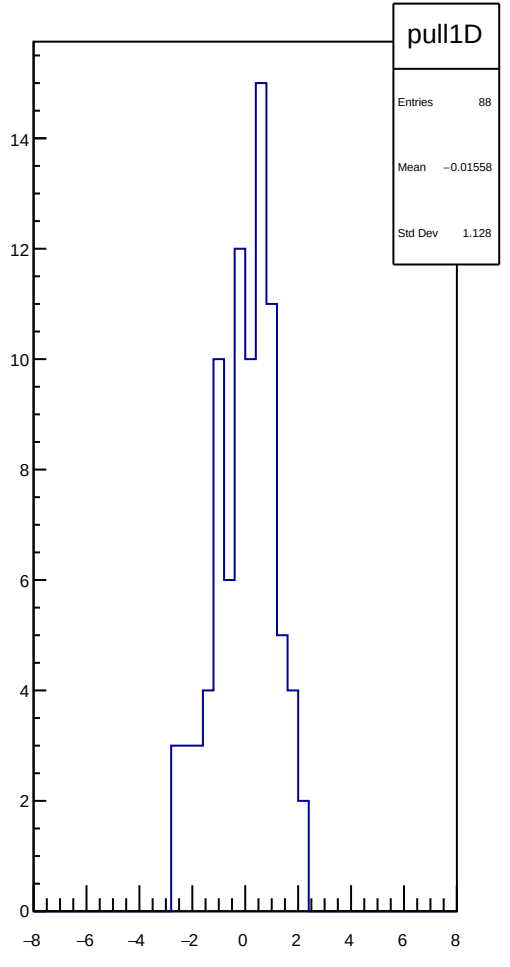

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.481e+04 / 87
p0 27.48 ± 0.02186
45
40
35
30
25
20

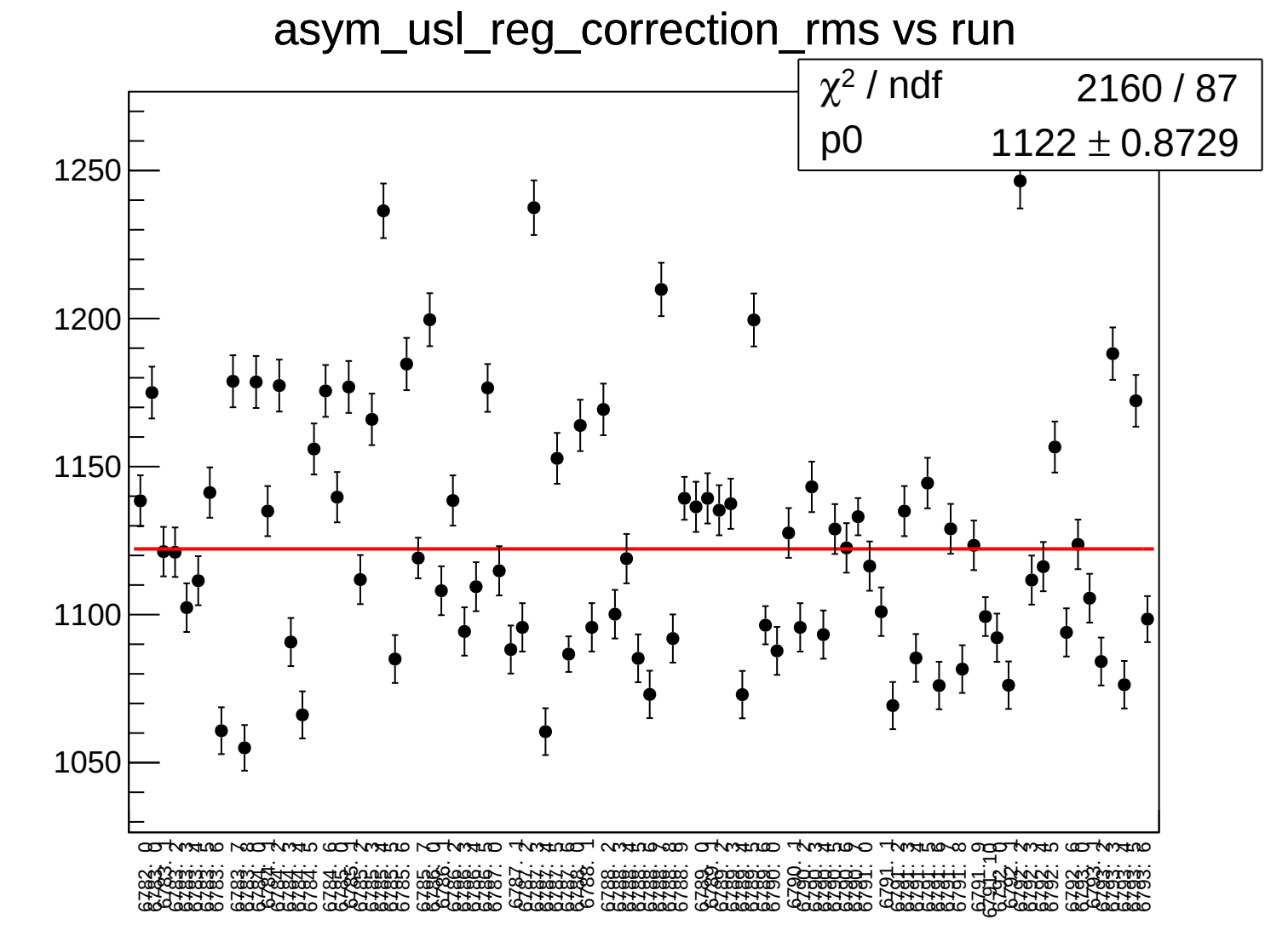

reg_asym_usl_mean vs run
χ² / ndf 82.27 / 87
p0 265.6 ± 1211
pull
Entries 88
Mean −735.4
Std Dev 0

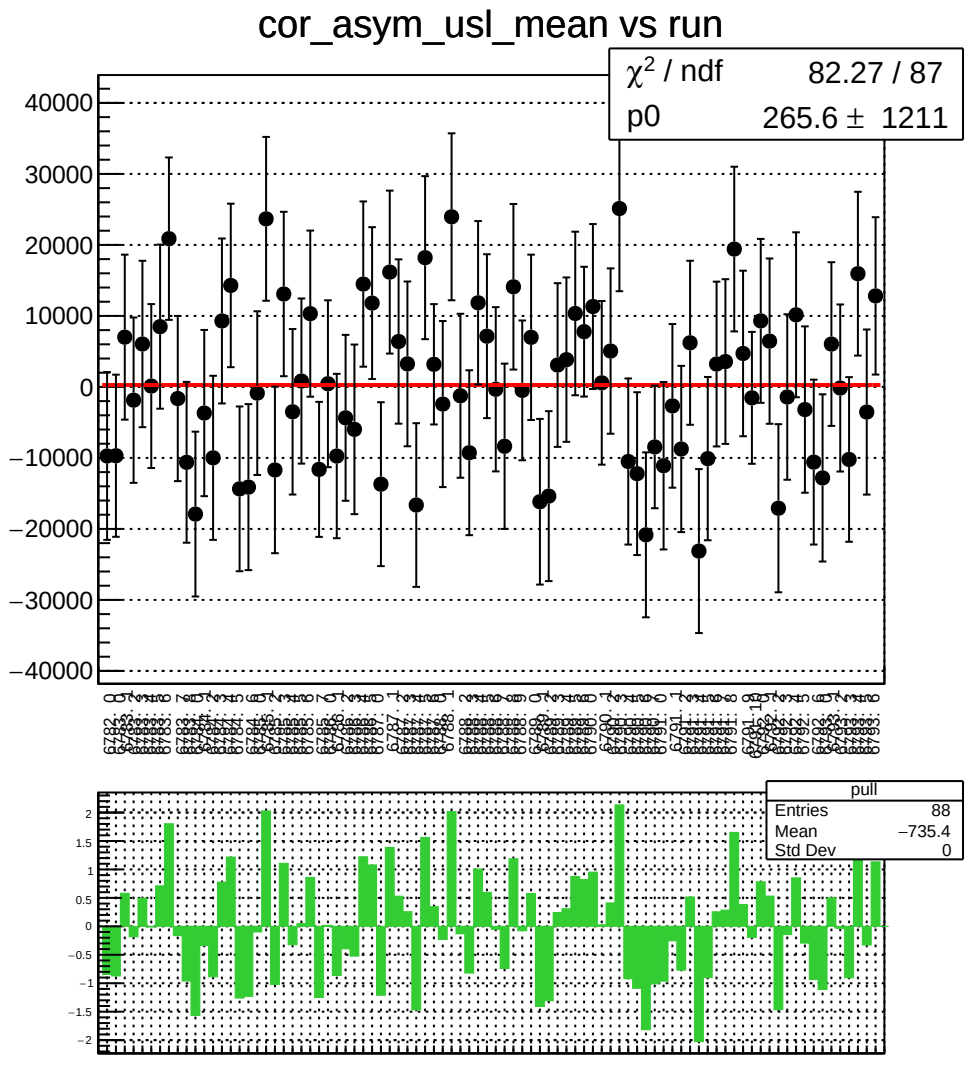

pull1D
Entries 88
Mean 0.000388
Std Dev 0.9669

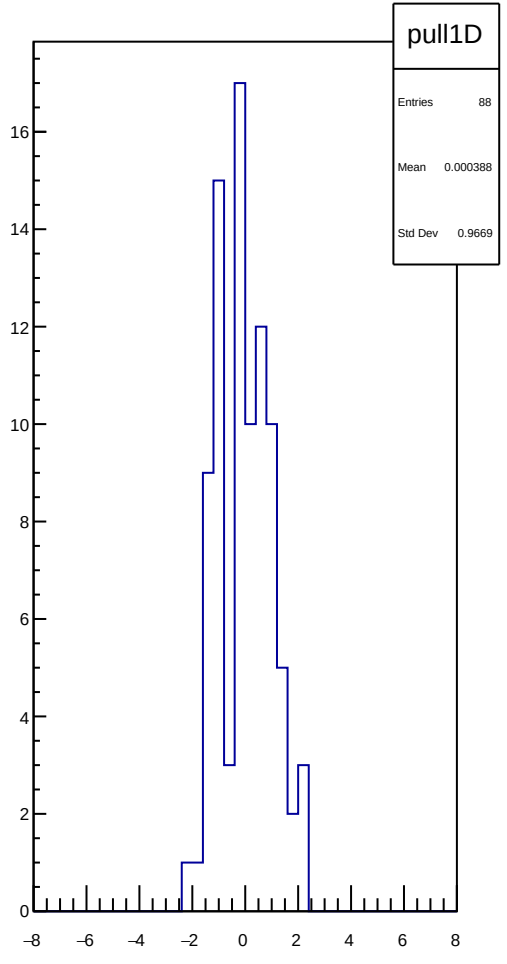

reg_asym_usl_rms vs run
χ² / ndf 115.2 / 87
p0 1101 ± 0.8561
1150
1140
1130
1120
1110
1100
1090
1080
1070

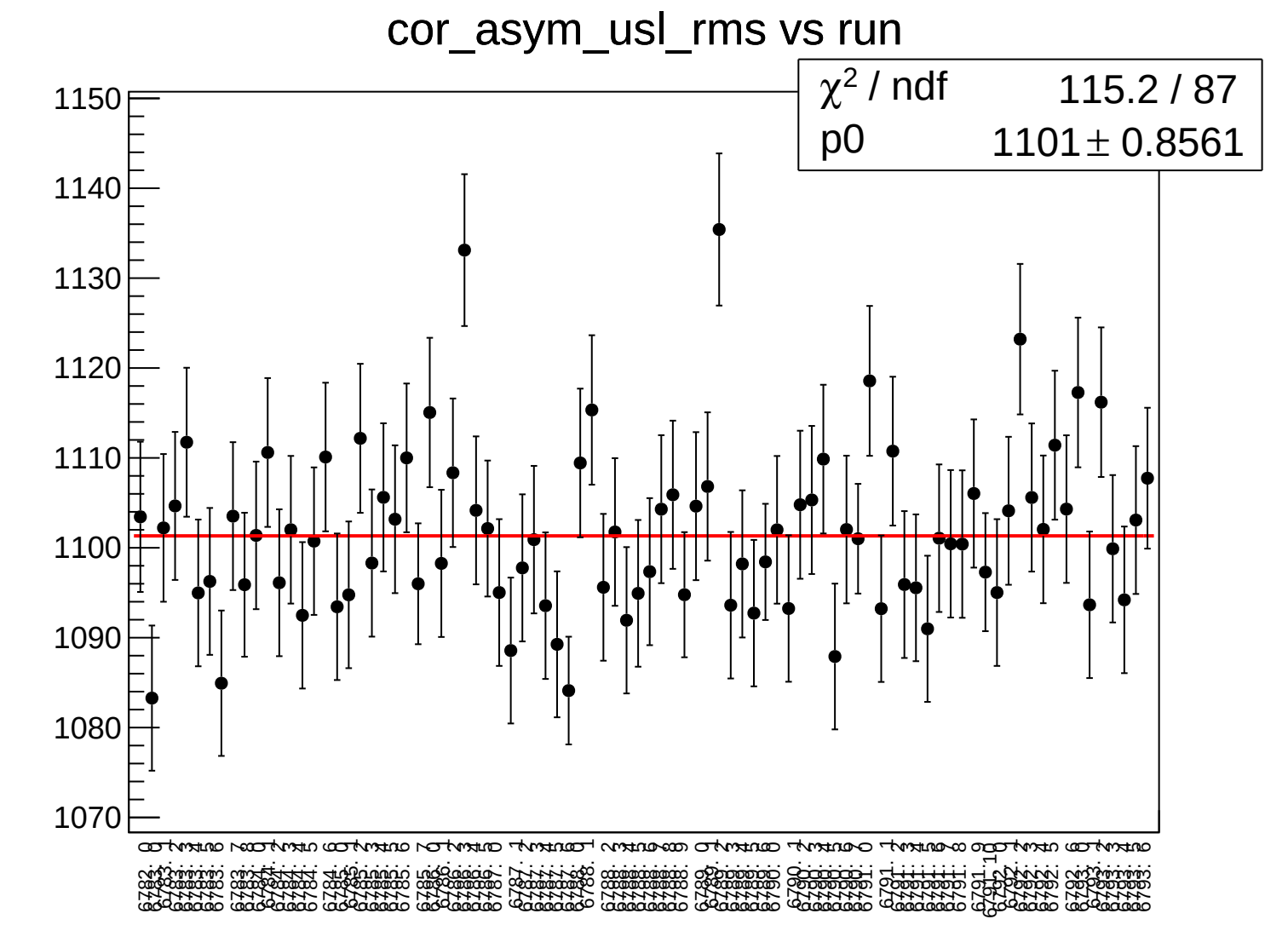

asym_usl_reg_correction_mean vs run
χ² / ndf 112 / 87
p0 −2826 ± 1234
pull
Entries 88
Mean −112.9
Std Dev 0

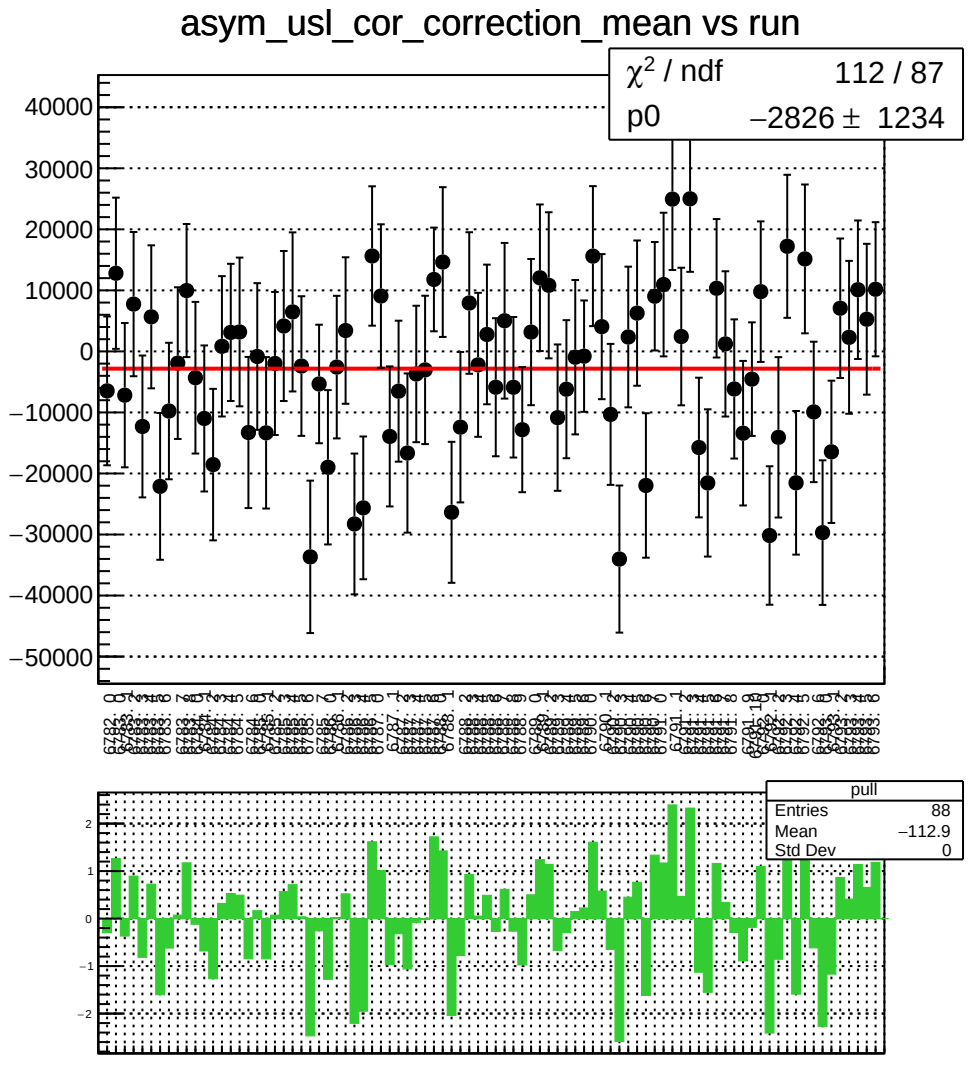

pull1D
Entries 88
Mean −0.01558
Std Dev 1.128

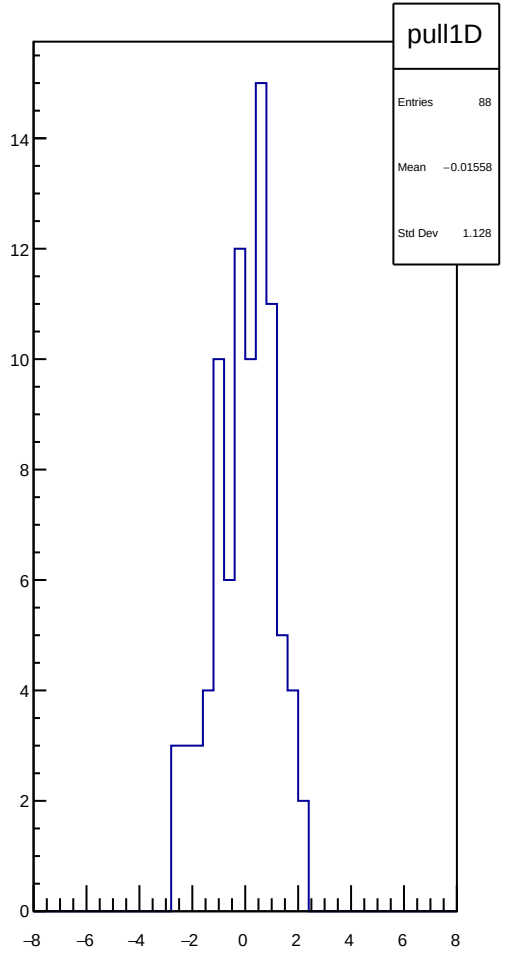

asym_usl_reg_correction_rms vs run
χ² / ndf 2160 / 87
p0 1122 ± 0.8729
1250
1200
1150
1100
1050

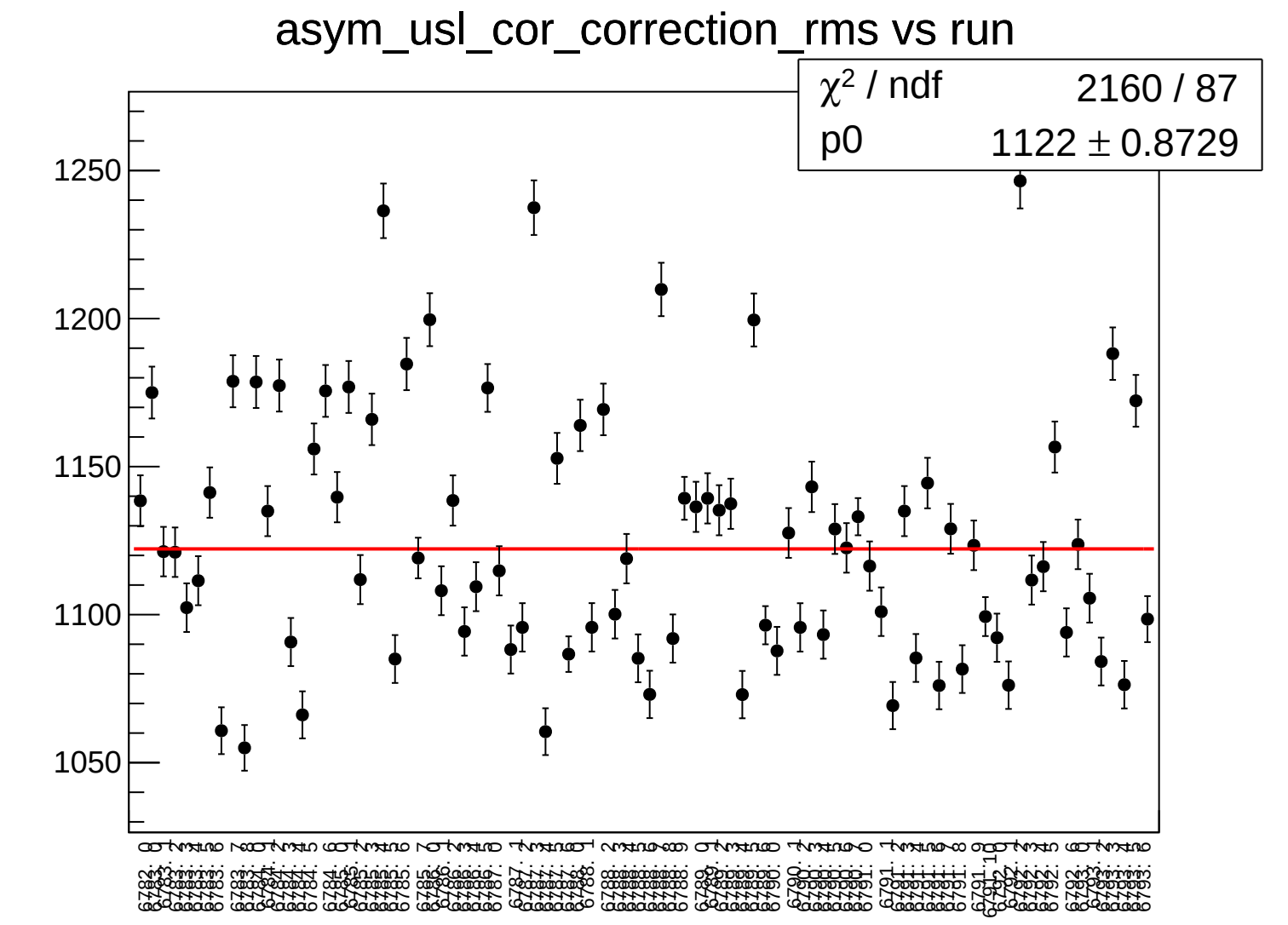

cor_asym_usl_mean vs run
χ² / ndf 82.27 / 87
p0 265.6 ± 1211
pull
Entries 88
Mean −735.4
Std Dev 0

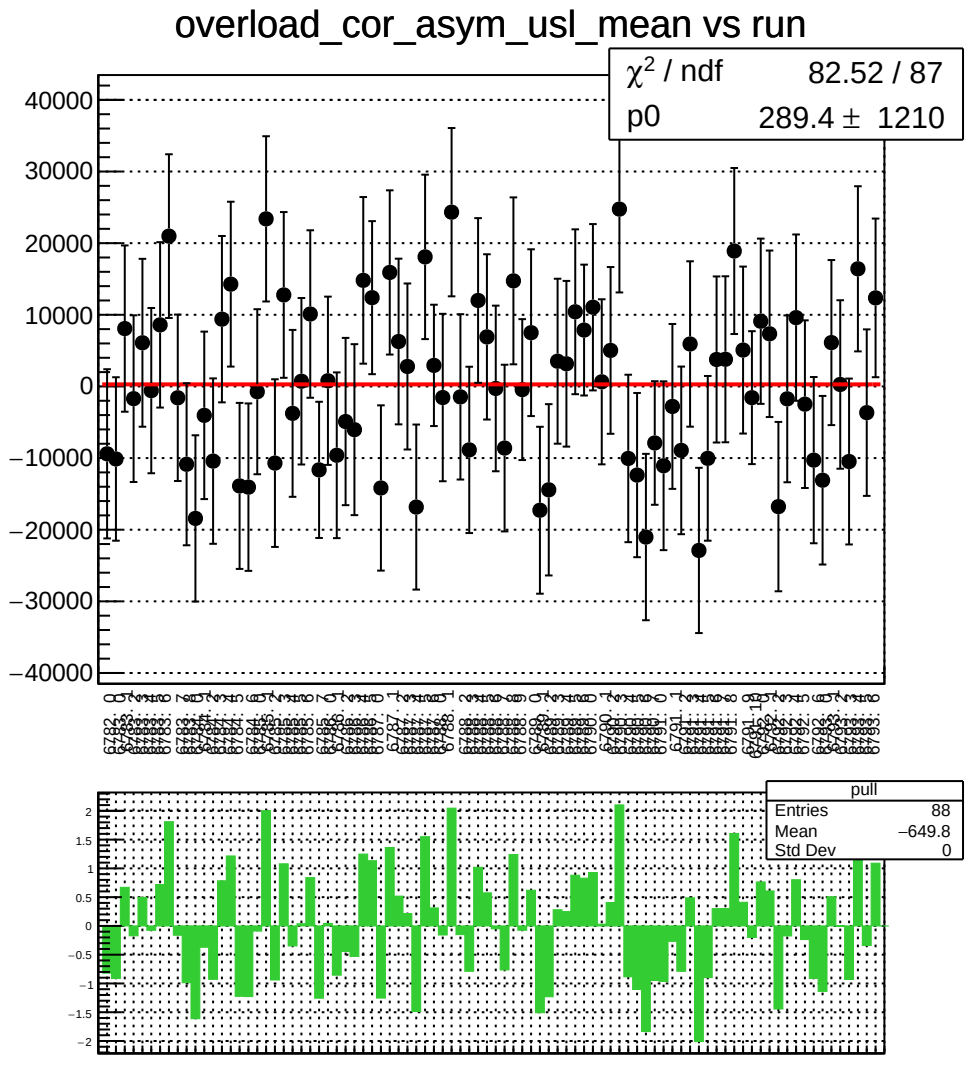

pull1D
Entries 88
Mean 0.000388
Std Dev 0.9669

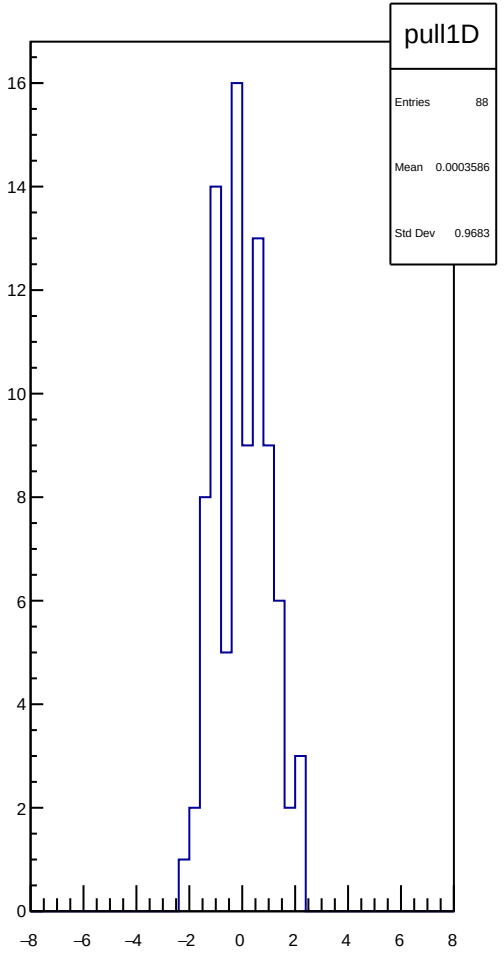

cor_asym_usl_rms vs run
χ^2 / ndf 115.2 / 87
p0 1101 ± 0.8561
1150
1140
1130
1120
1110
1100
1090
1080
1070

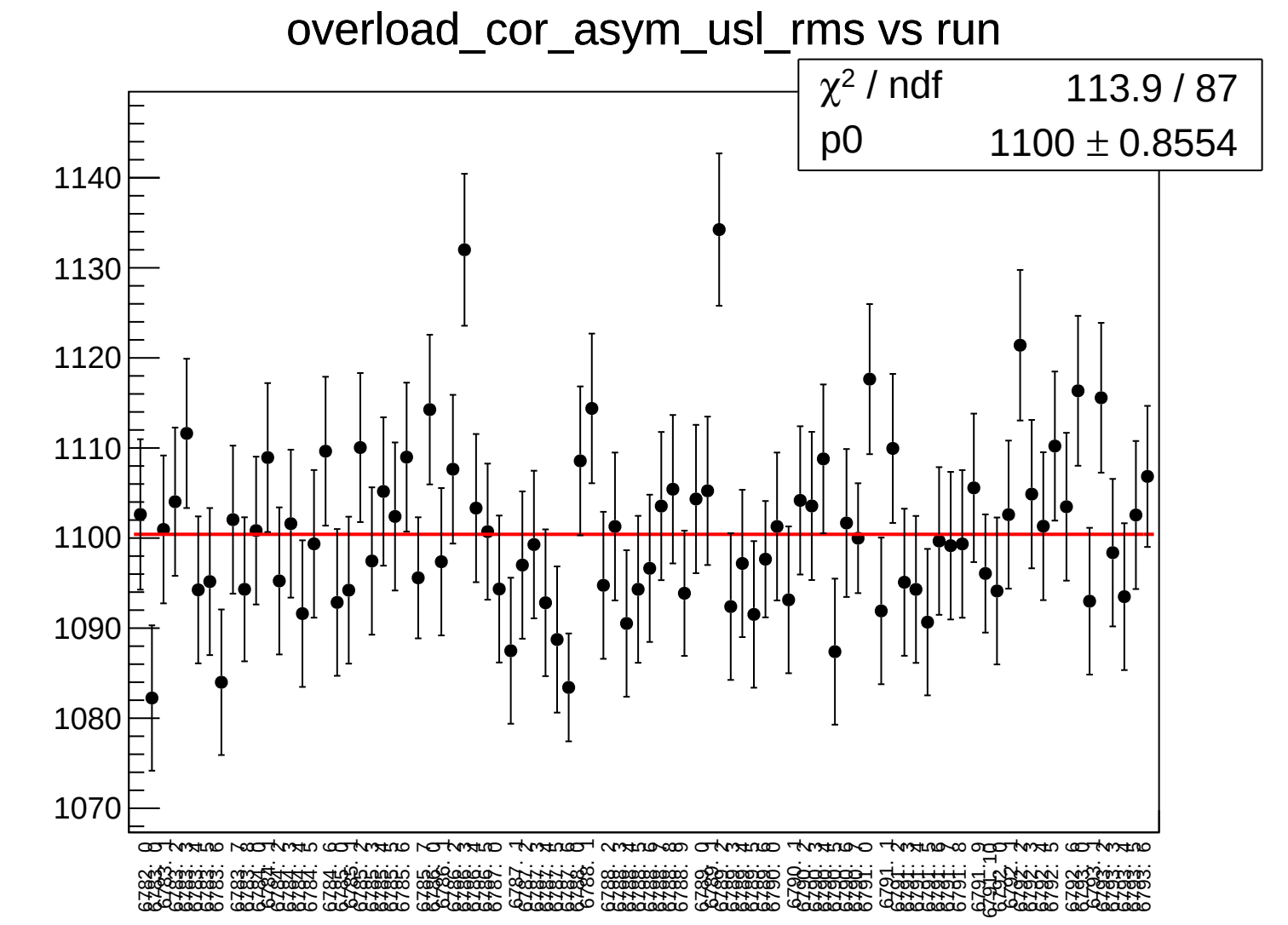

asym_usl_cor_correction_mean vs run
χ² / ndf 112 / 87
p0 −2826 ± 1234
pull
Entries 88
Mean −112.9
Std Dev 0

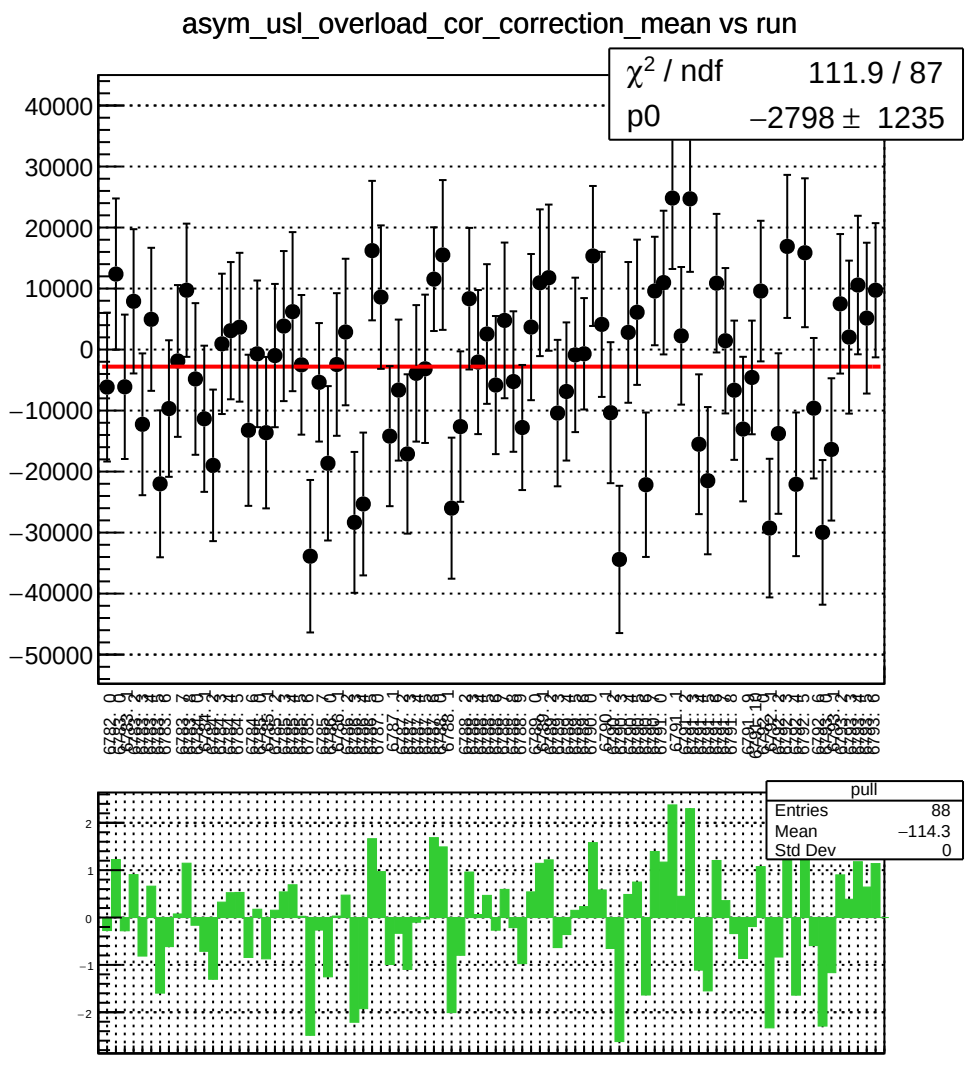

pull1D
Entries 88
Mean −0.01558
Std Dev 1.128

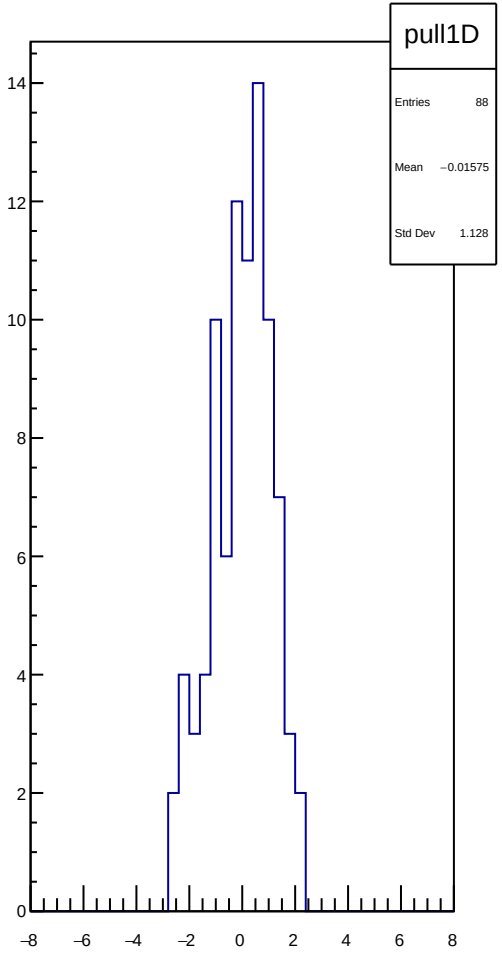

asym_usl_cor_correction_rms vs run
χ² / ndf 2160 / 87
p0 1122 ± 0.8729
1250
1200
1150
1100
1050

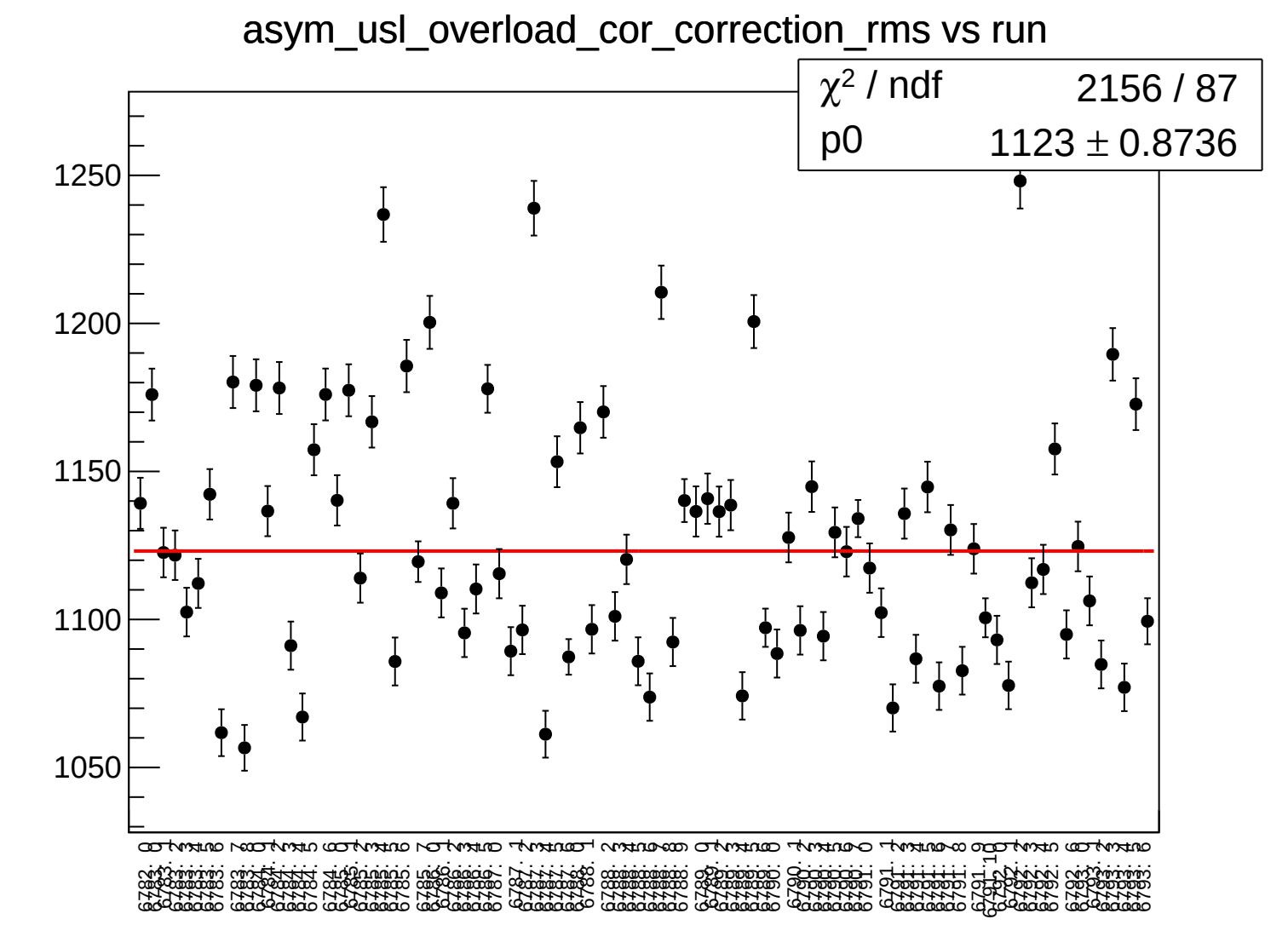

overload_cor_asym_usl_mean vs run
χ² / ndf 82.52 / 87
p0 289.4 ± 1210
pull
Entries 88
Mean −649.8
Std Dev 0

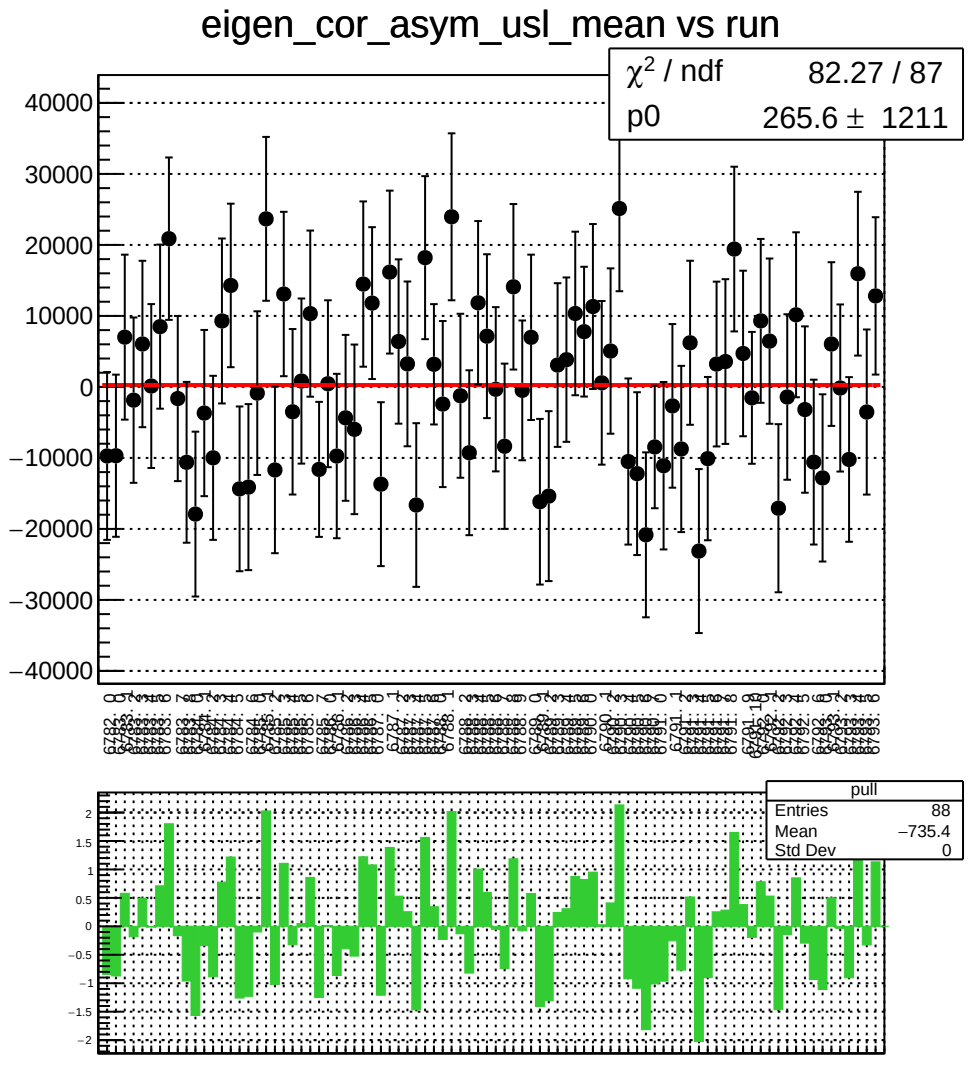

pull1D
Entries 88
Mean 0.0003586
Std Dev 0.9683

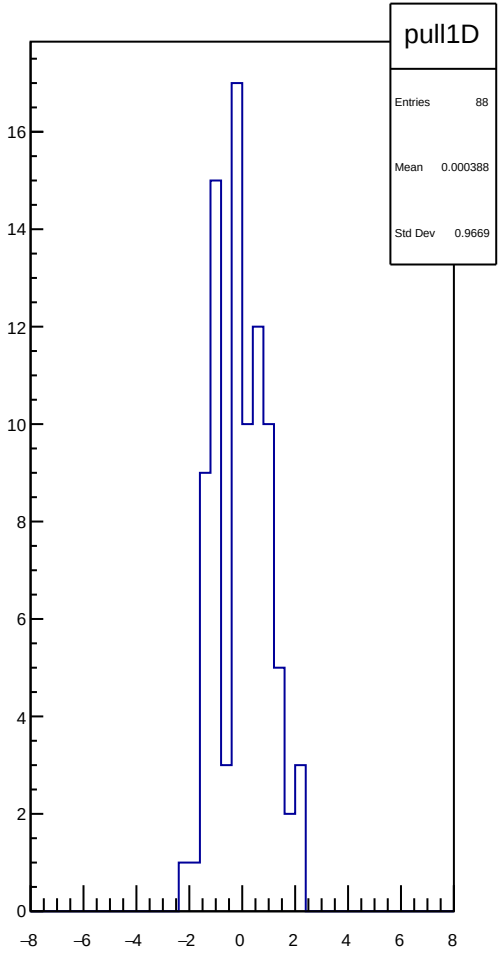

overload_cor_asym_usl_rms vs run
χ² / ndf 113.9 / 87
p0 1100 ± 0.8554
1140
1130
1120
1110
1100
1090
1080
1070


asym_usl_overload_cor_correction_mean vs run
χ² / ndf 111.9 / 87
p0 −2798 ± 1235
pull
Entries 88
Mean −114.3
Std Dev 0

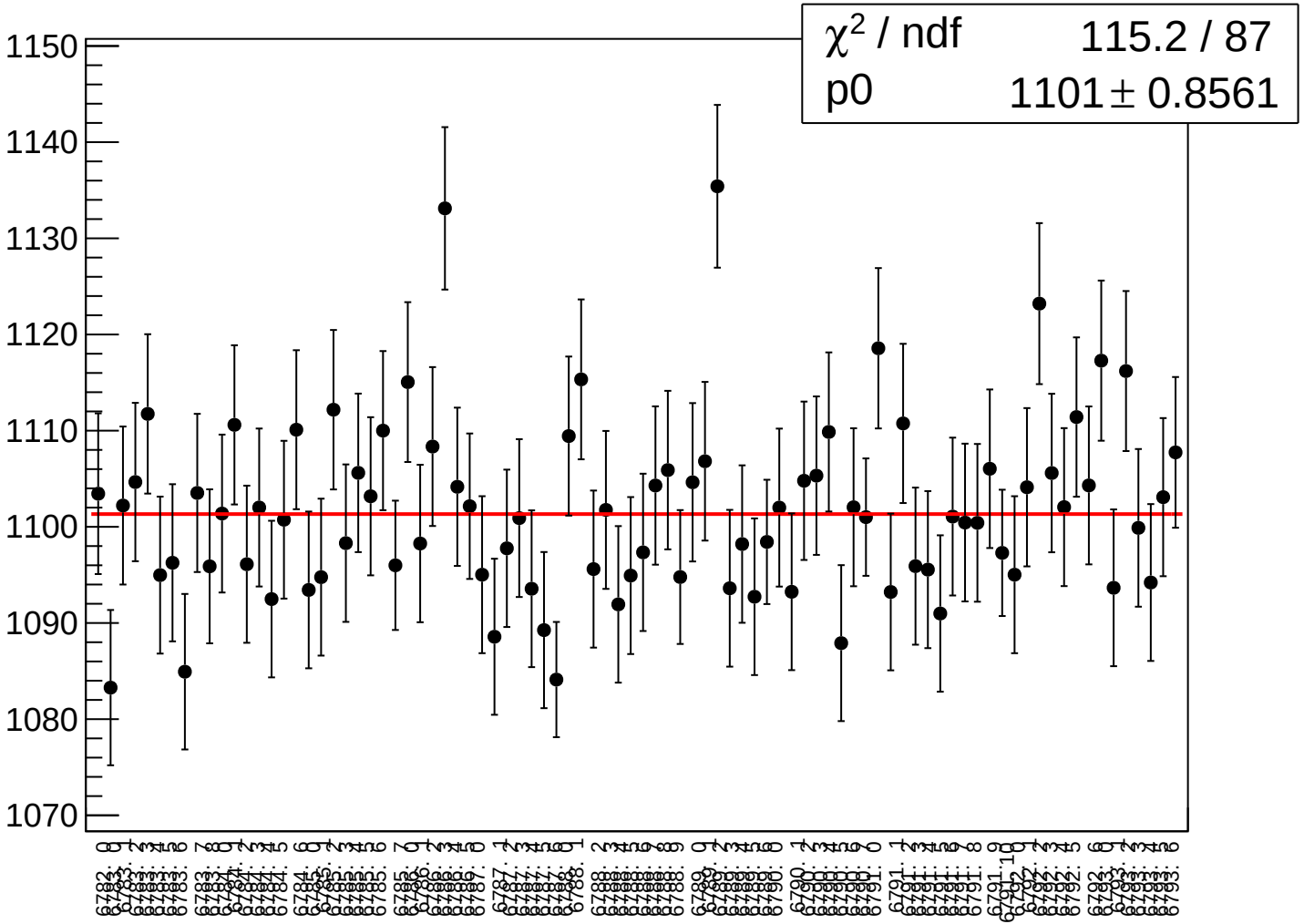

pull1D
Entries 88
Mean −0.01575
Std Dev 1.128

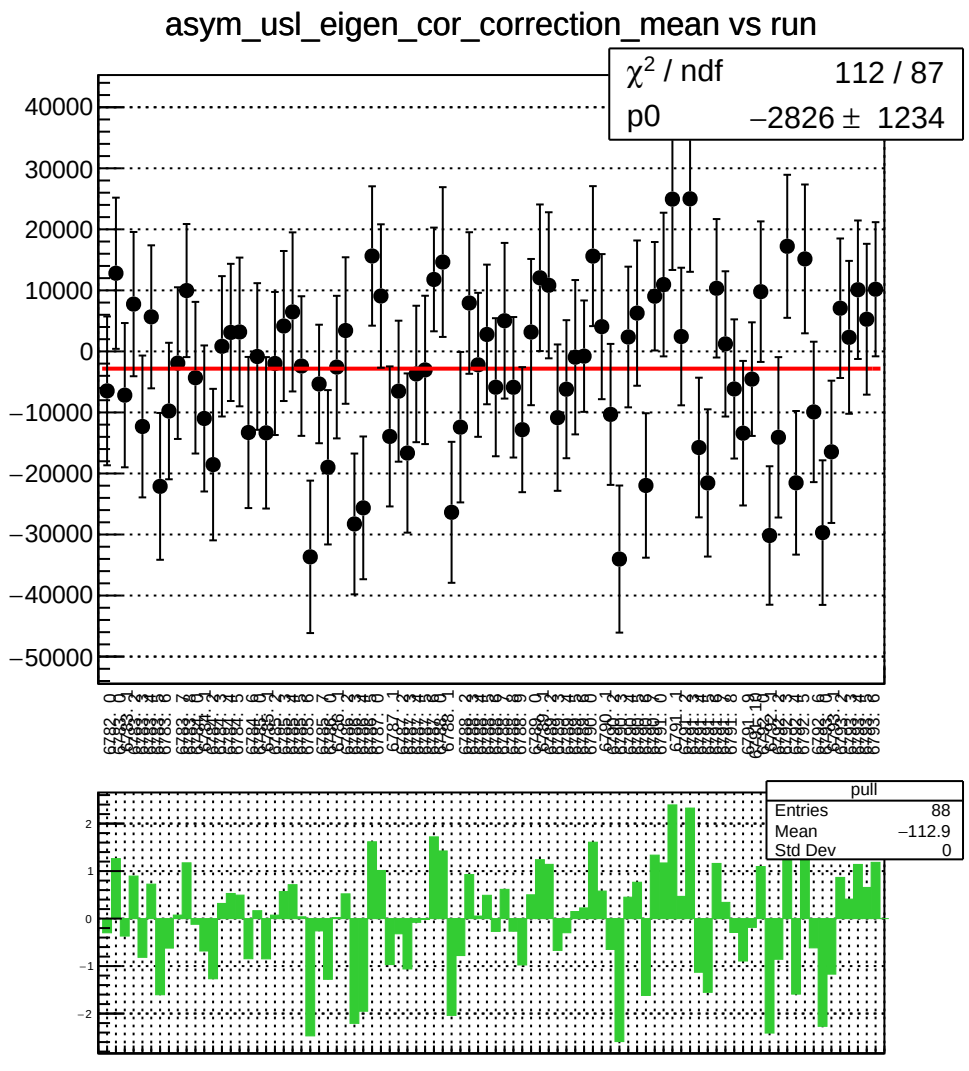

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2156 / 87
p0 1123 ± 0.8736
1250
1200
1150
1100
1050

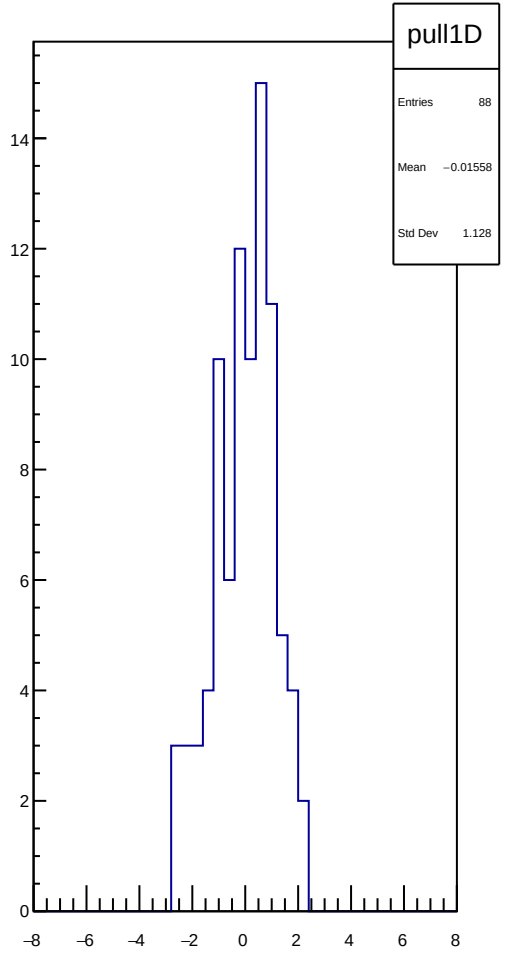

eigen_cor_asym_usl_mean vs run
χ² / ndf 82.27 / 87
p0 265.6 ± 1211
pull
Entries 88
Mean −735.4
Std Dev 0

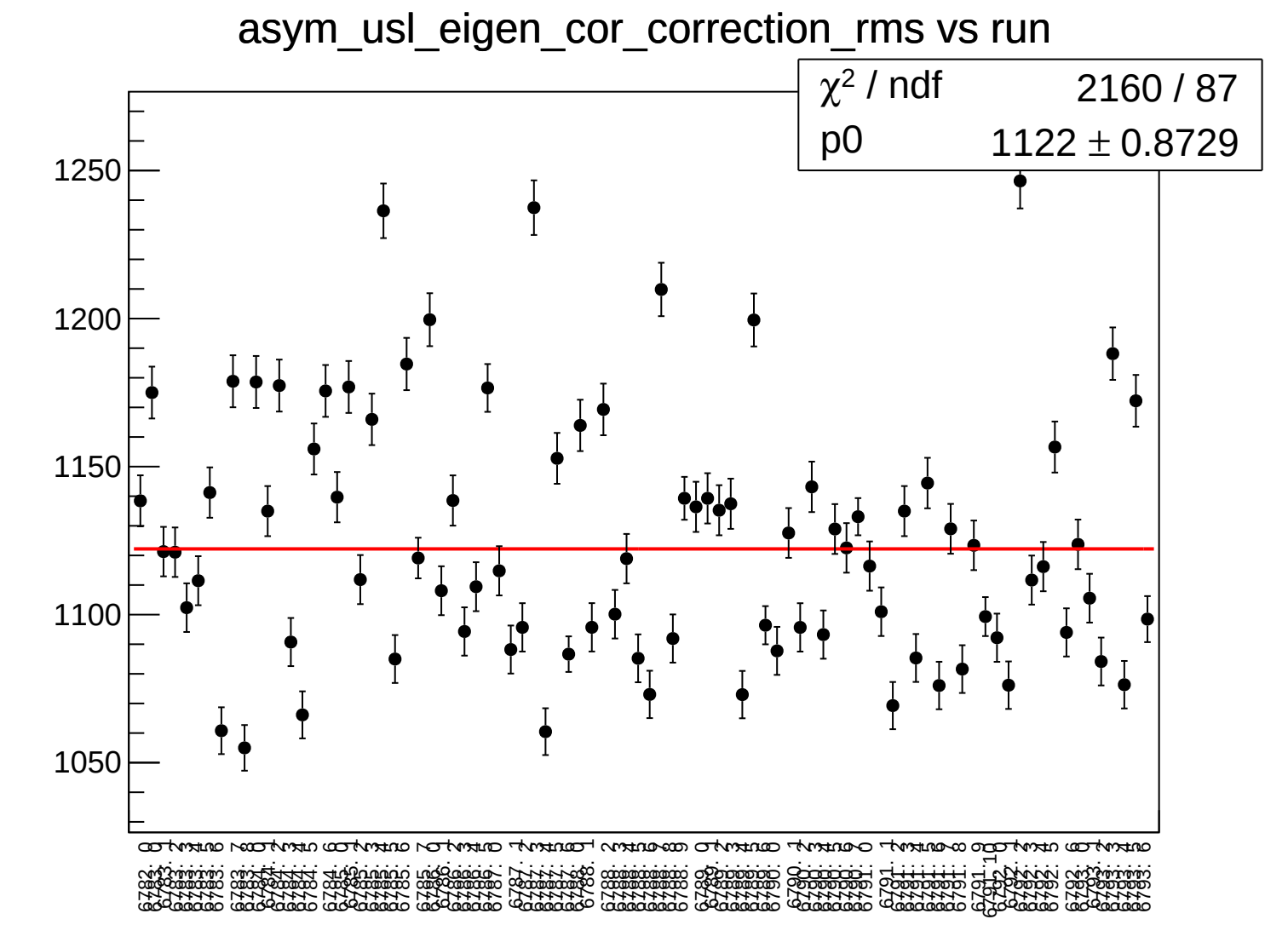

pull1D
Entries 88
Mean 0.000388
Std Dev 0.9669

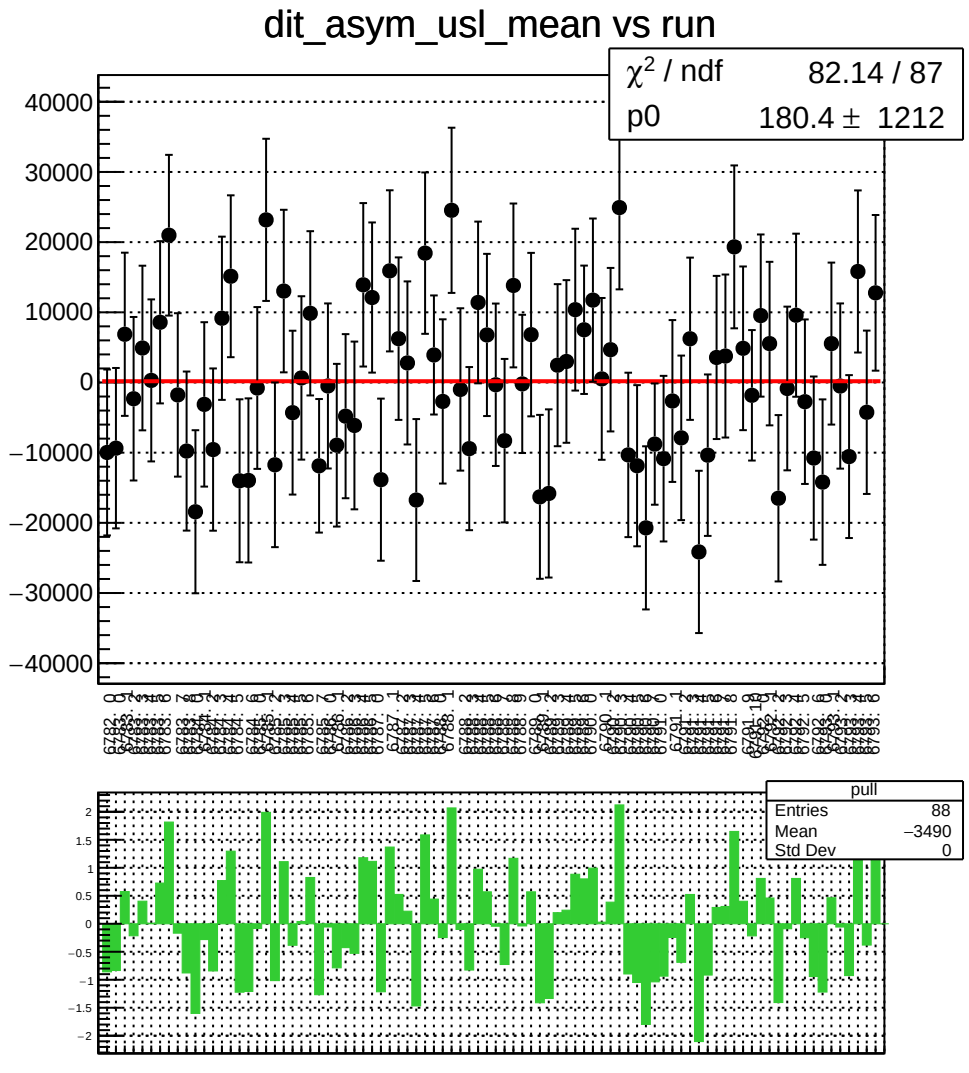
eigen_cor_asym_usl_rms vs run

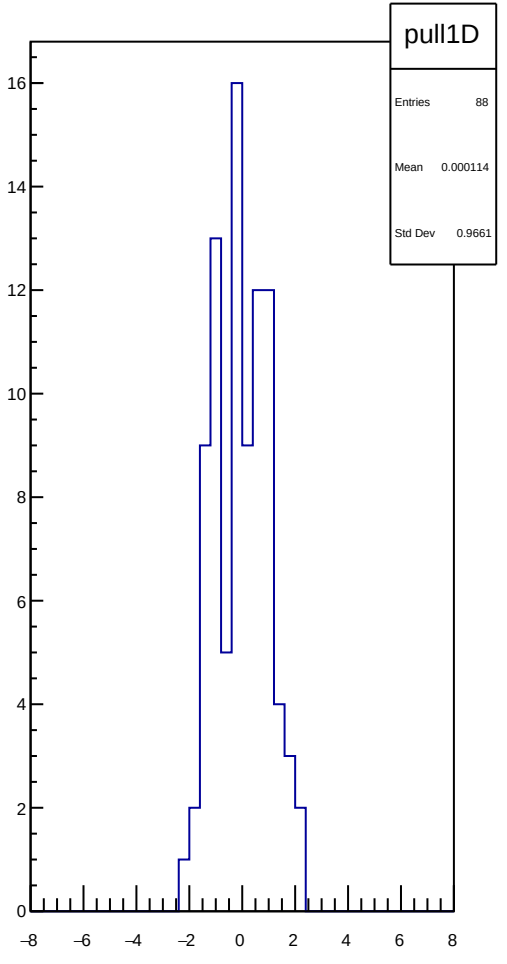


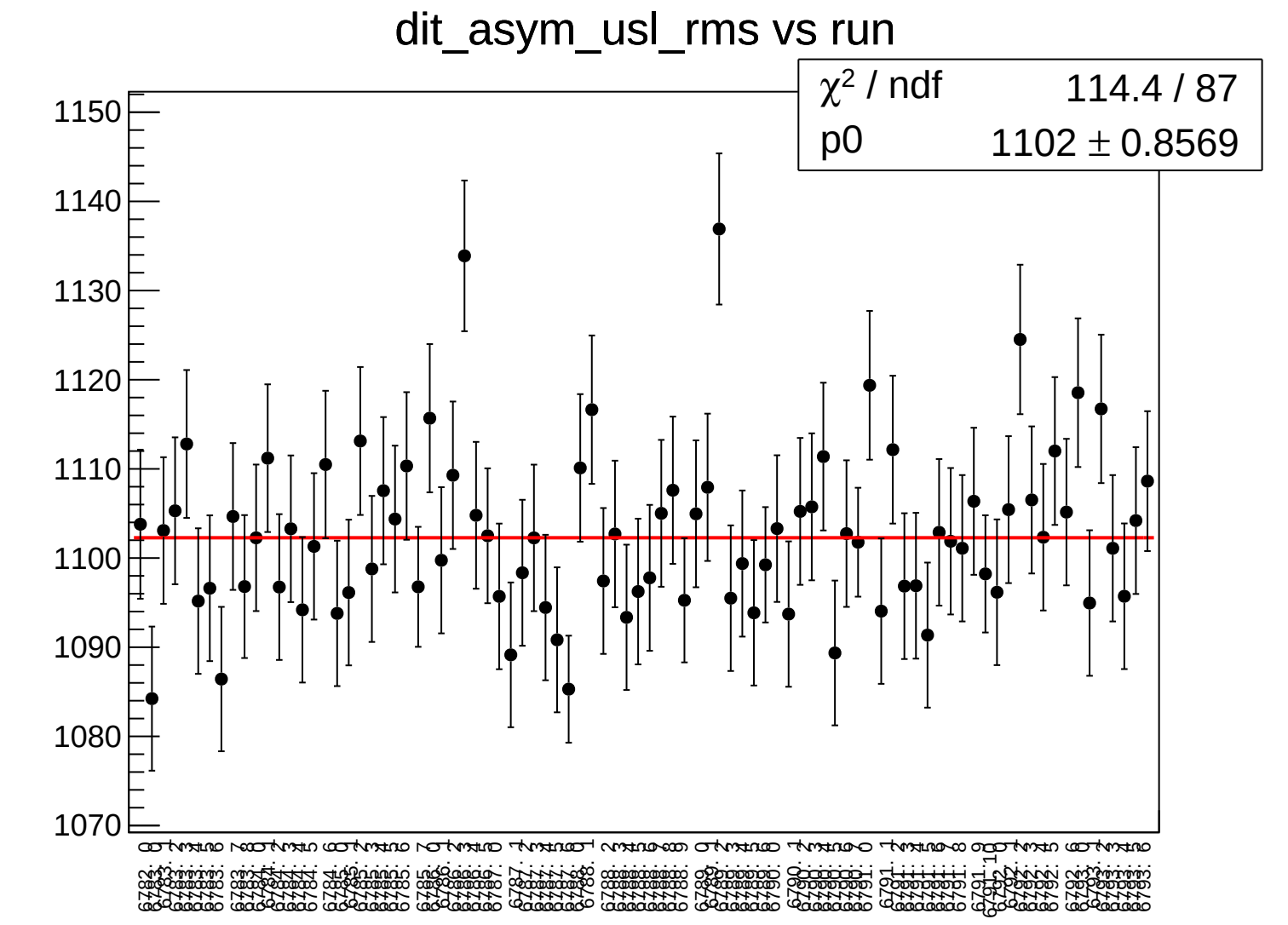

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 112 / 87
p0 −2826 ± 1234
pull
Entries 88
Mean −112.9
Std Dev 0

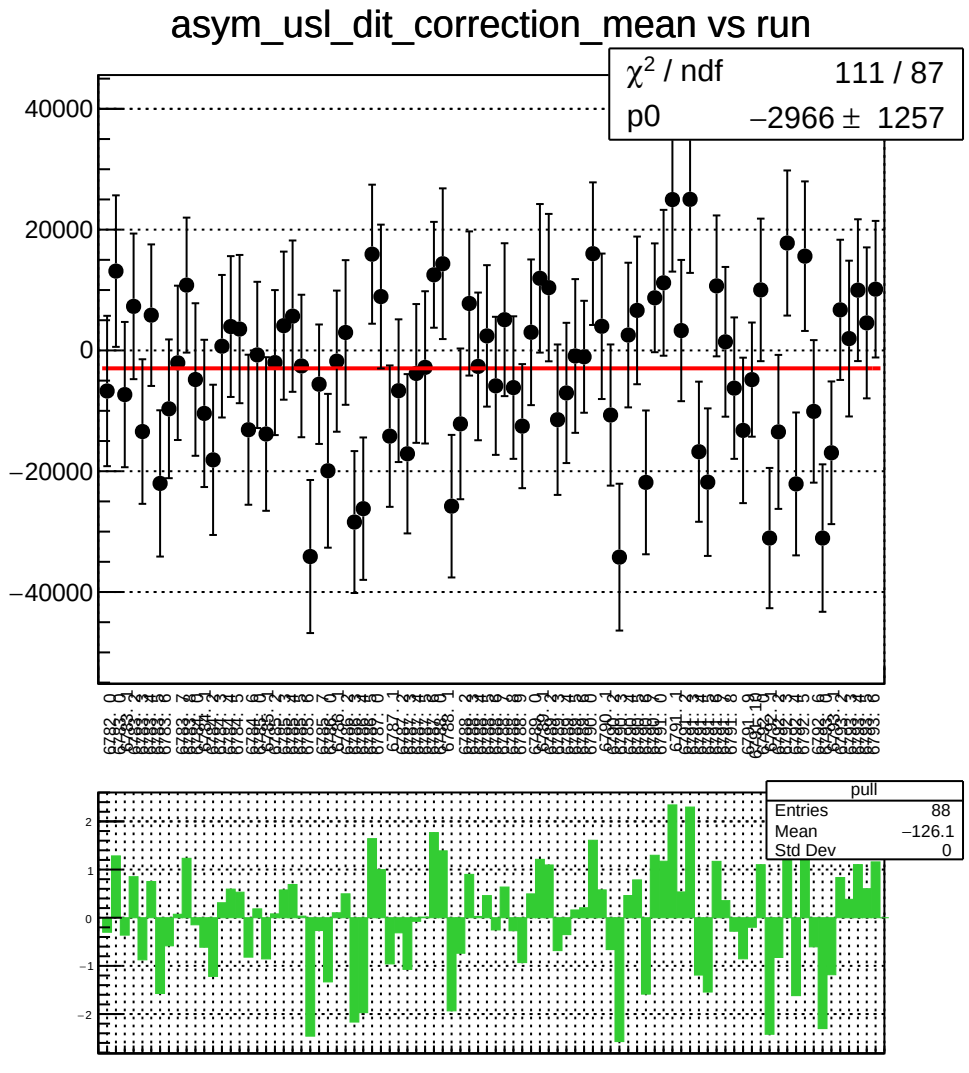

pull1D
Entries 88
Mean −0.01558
Std Dev 1.128

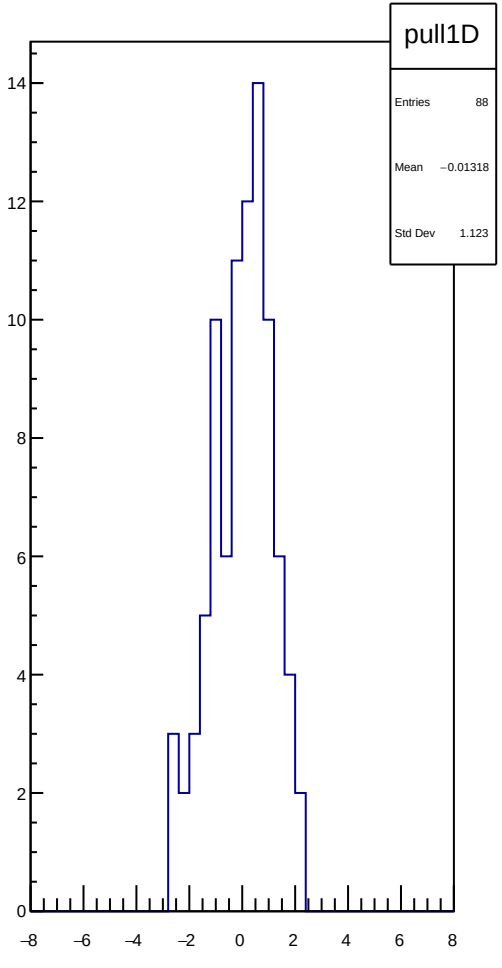

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2160 / 87
p0 1122 ± 0.8729
1250
1200
1150
1100
1050

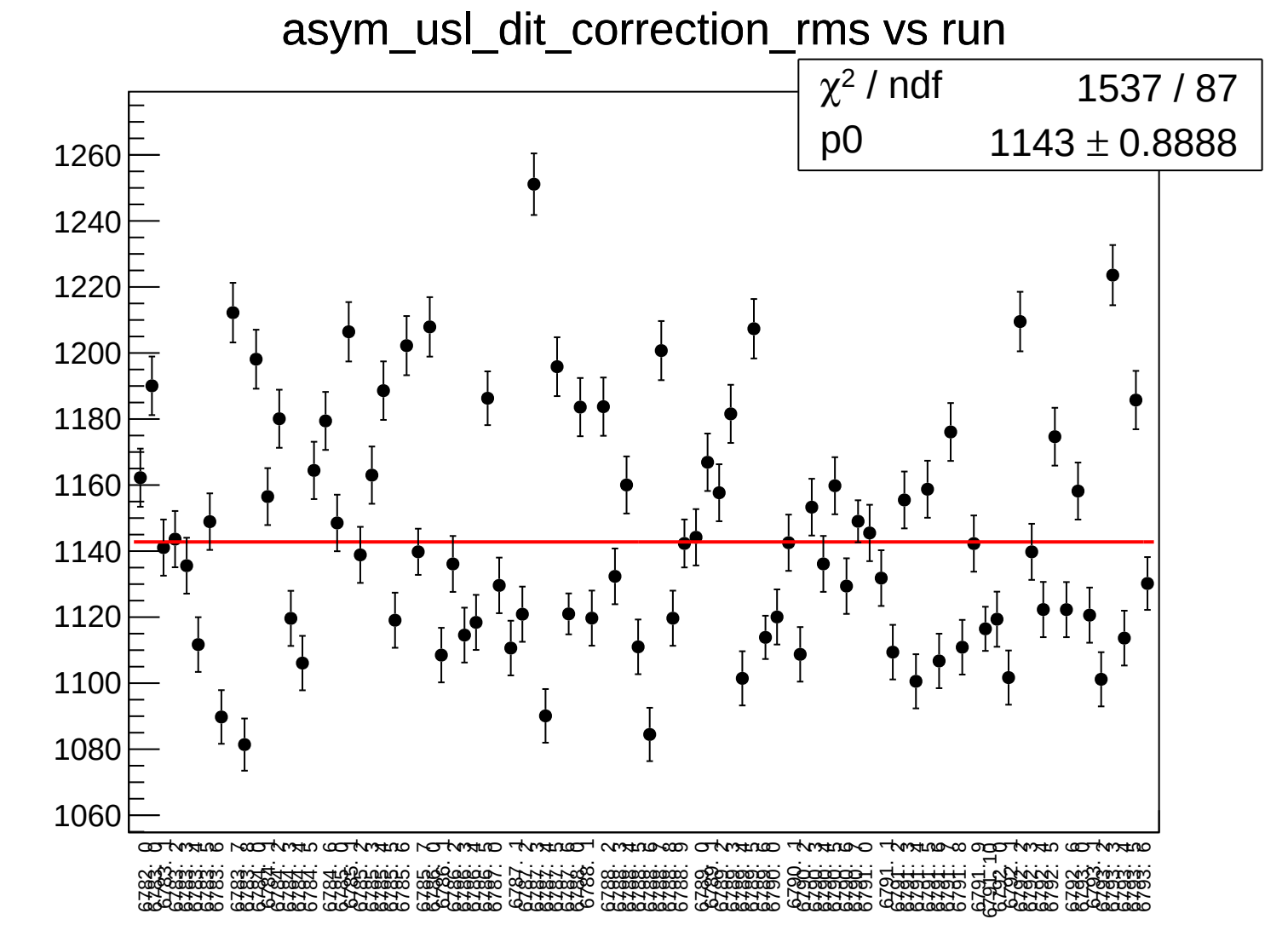

dit_asym_usl_mean vs run
χ² / ndf 82.14 / 87
p0 180.4 ± 1212
pull
Entries 88
Mean −3490
Std Dev 0

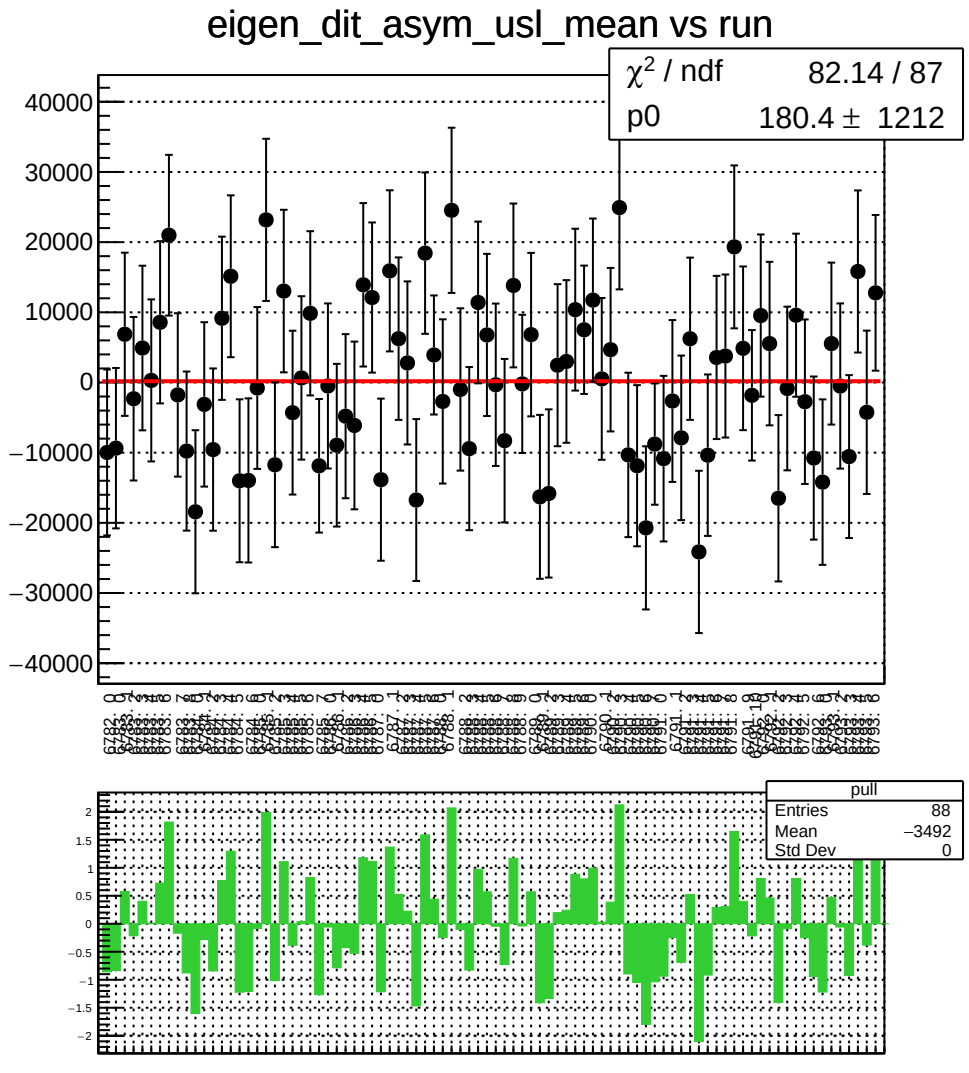

pull1D
Entries 88
Mean 0.000114
Std Dev 0.9661

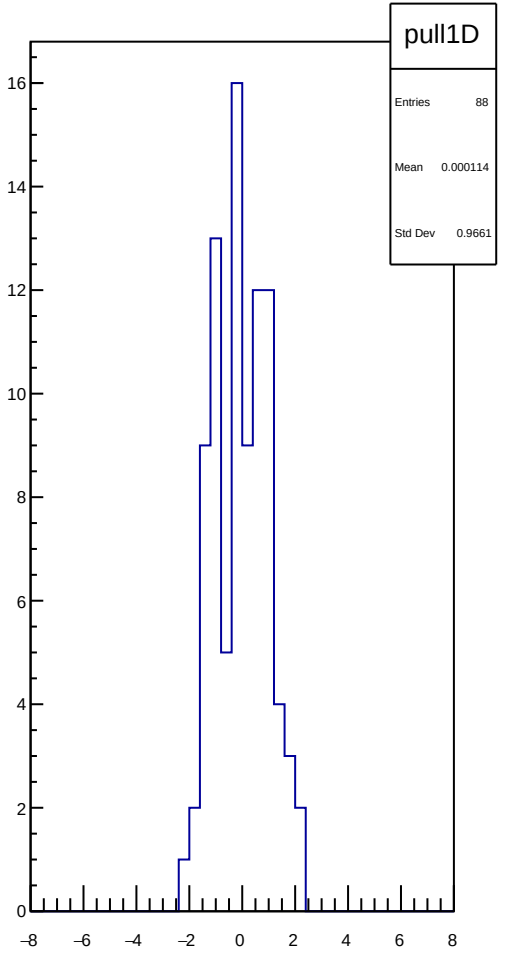

dit_asym_usl_rms vs run
χ² / ndf 114.4 / 87
p0 1102 ± 0.8569
1150
1140
1130
1120
1110
1100
1090
1080
1070

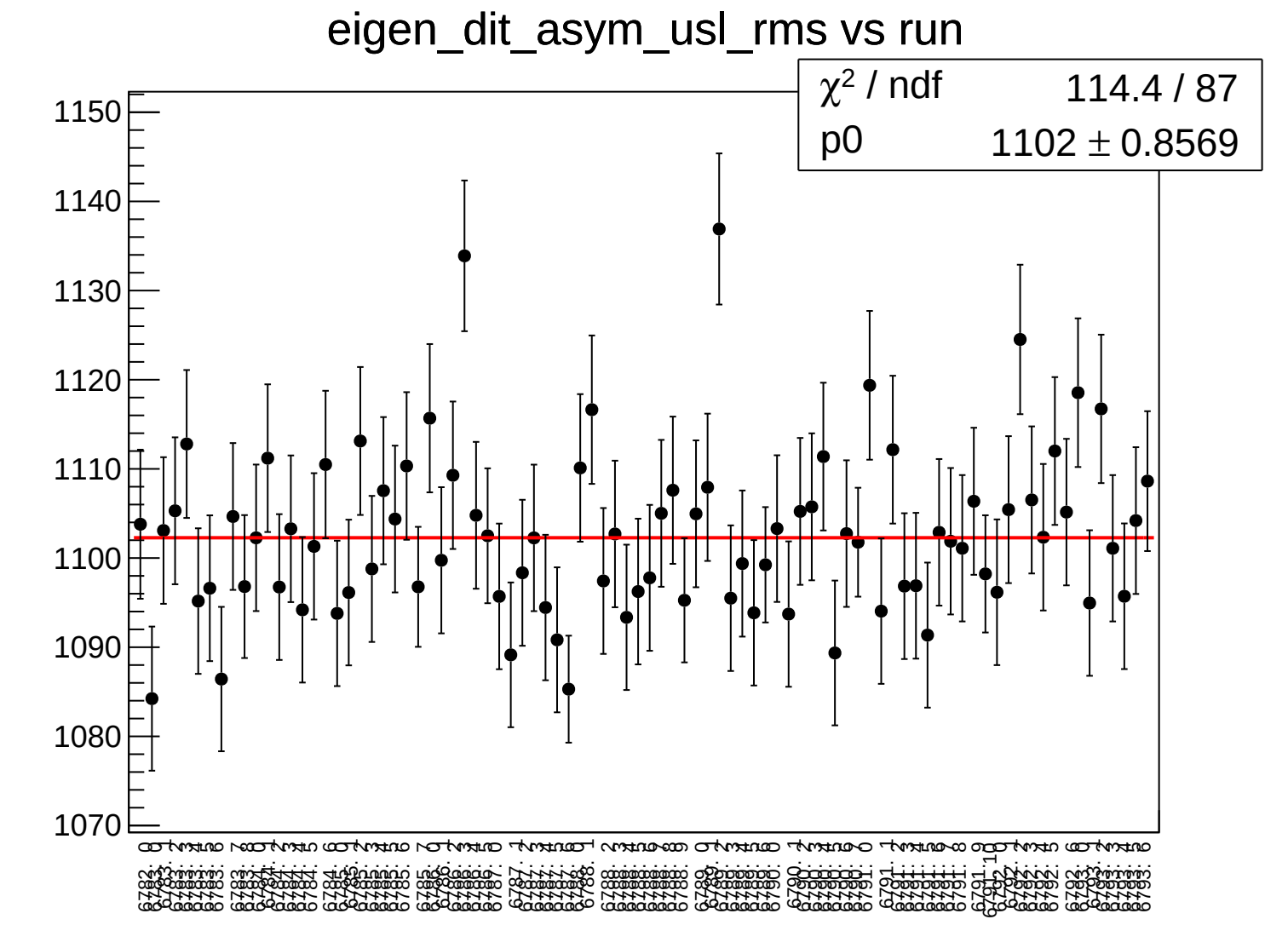

asym_usl_dit_correction_mean vs run
χ² / ndf 111 / 87
p0 −2966 ± 1257
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −126.1
Std Dev 0
2
1
0
−1
−2

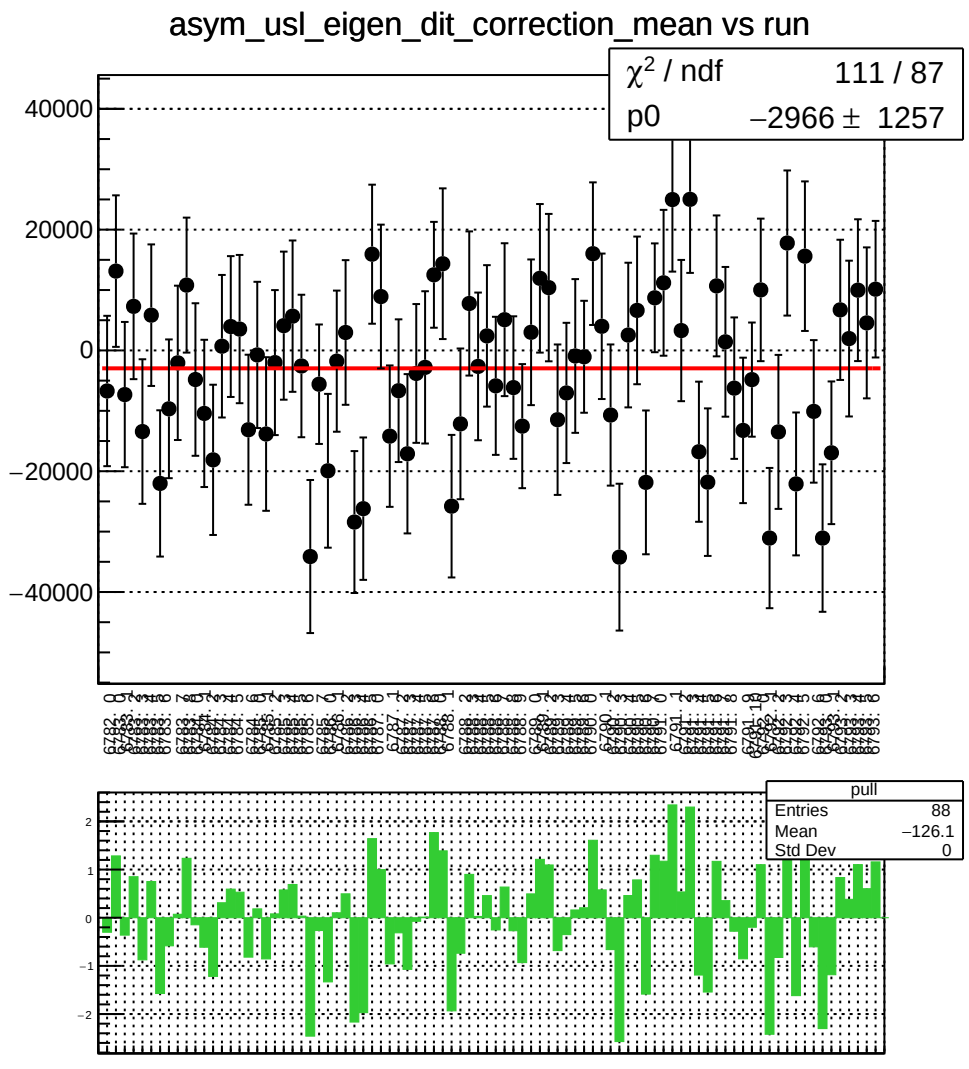

pull1D
Entries 88
Mean −0.01318
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

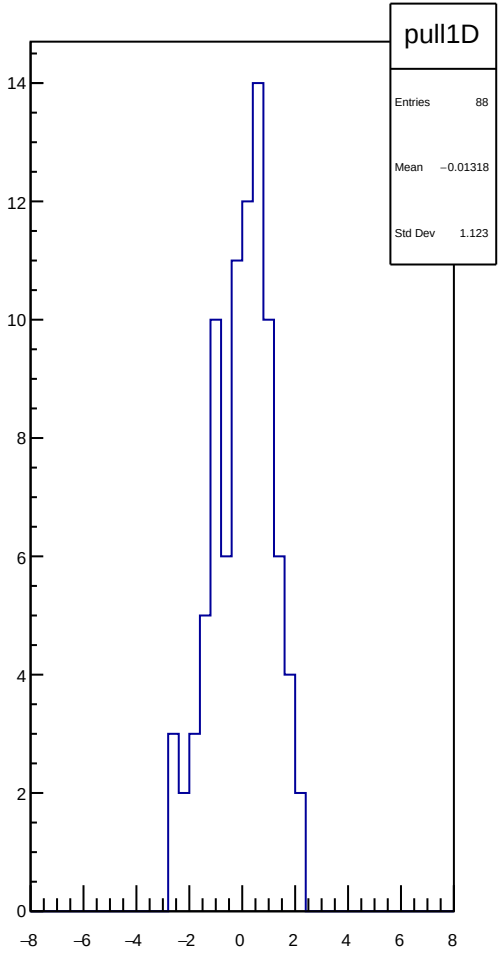

asym_usl_dit_correction_rms vs run
χ² / ndf 1537 / 87
p0 1143 ± 0.8888
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

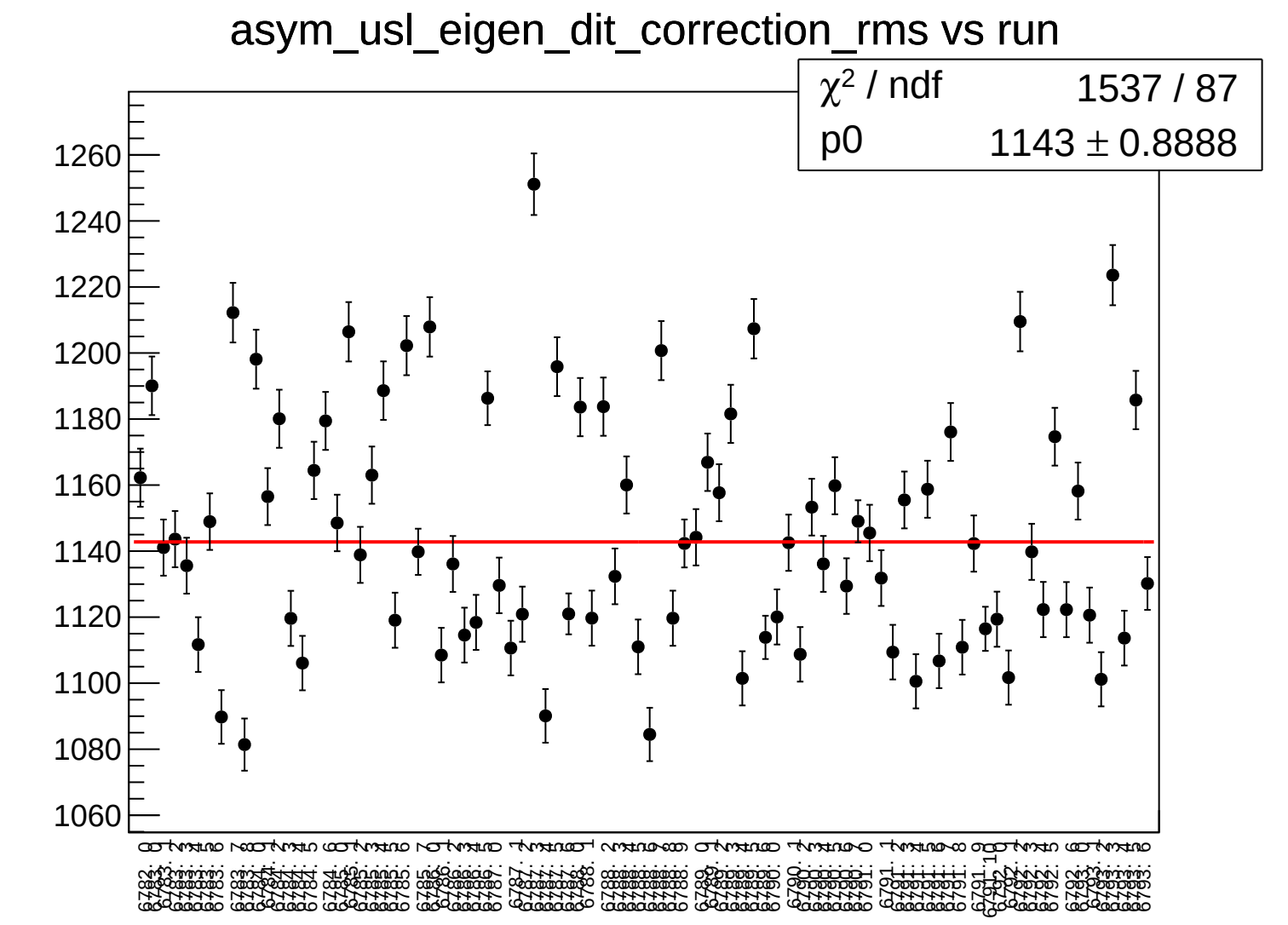

eigen_dit_asym_usl_mean vs run
χ² / ndf 82.14 / 87
p0 180.4 ± 1212
pull
Entries 88
Mean −3492
Std Dev 0

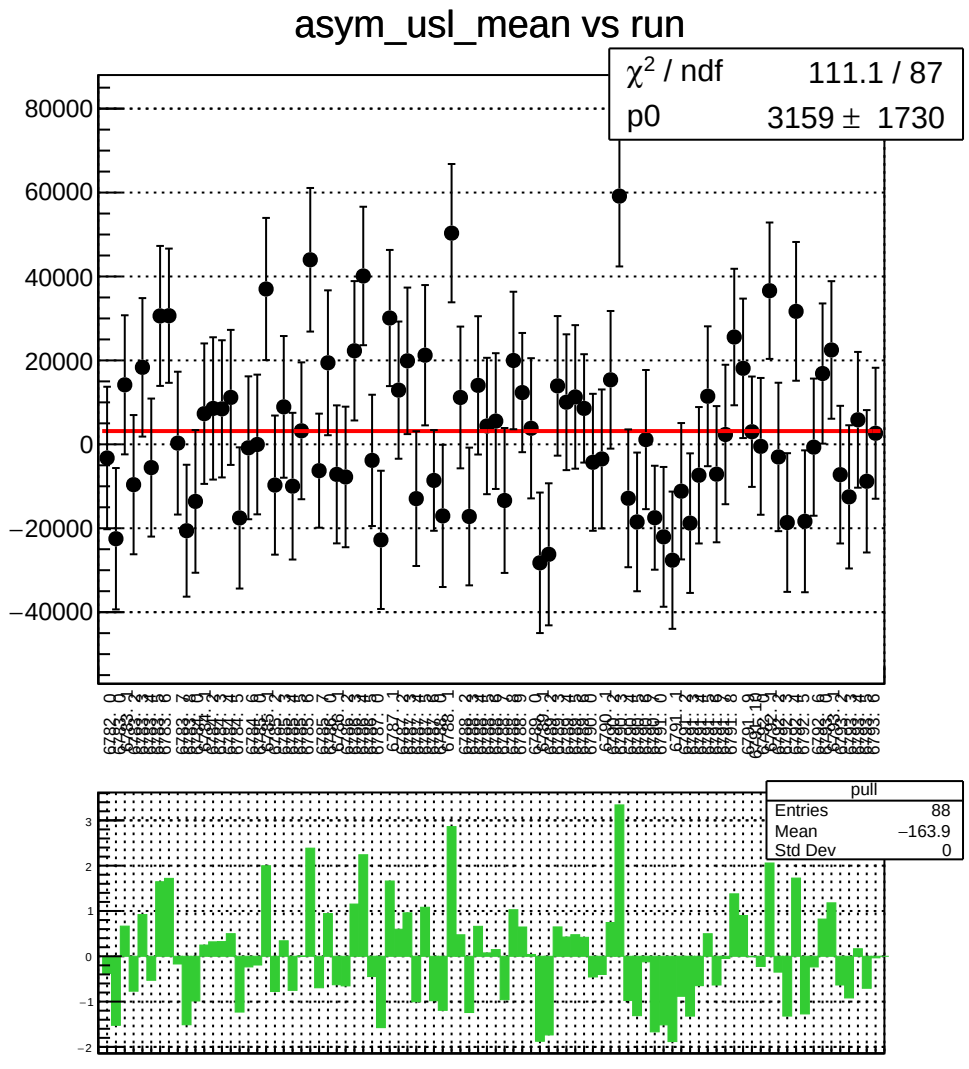

pull1D
Entries 88
Mean 0.000114
Std Dev 0.9661

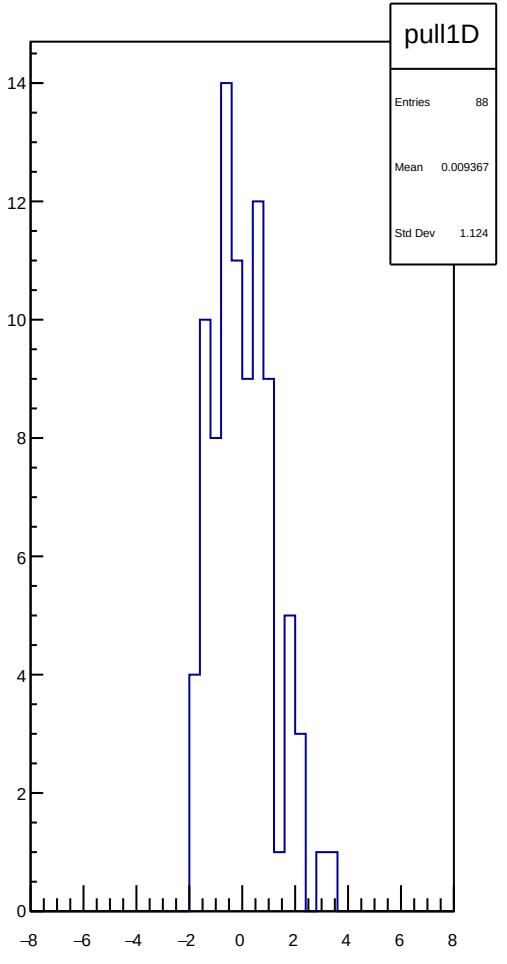

eigen_dit_asym_usl_rms vs run
χ² / ndf 114.4 / 87
p0 1102 ± 0.8569
1150
1140
1130
1120
1110
1100
1090
1080
1070

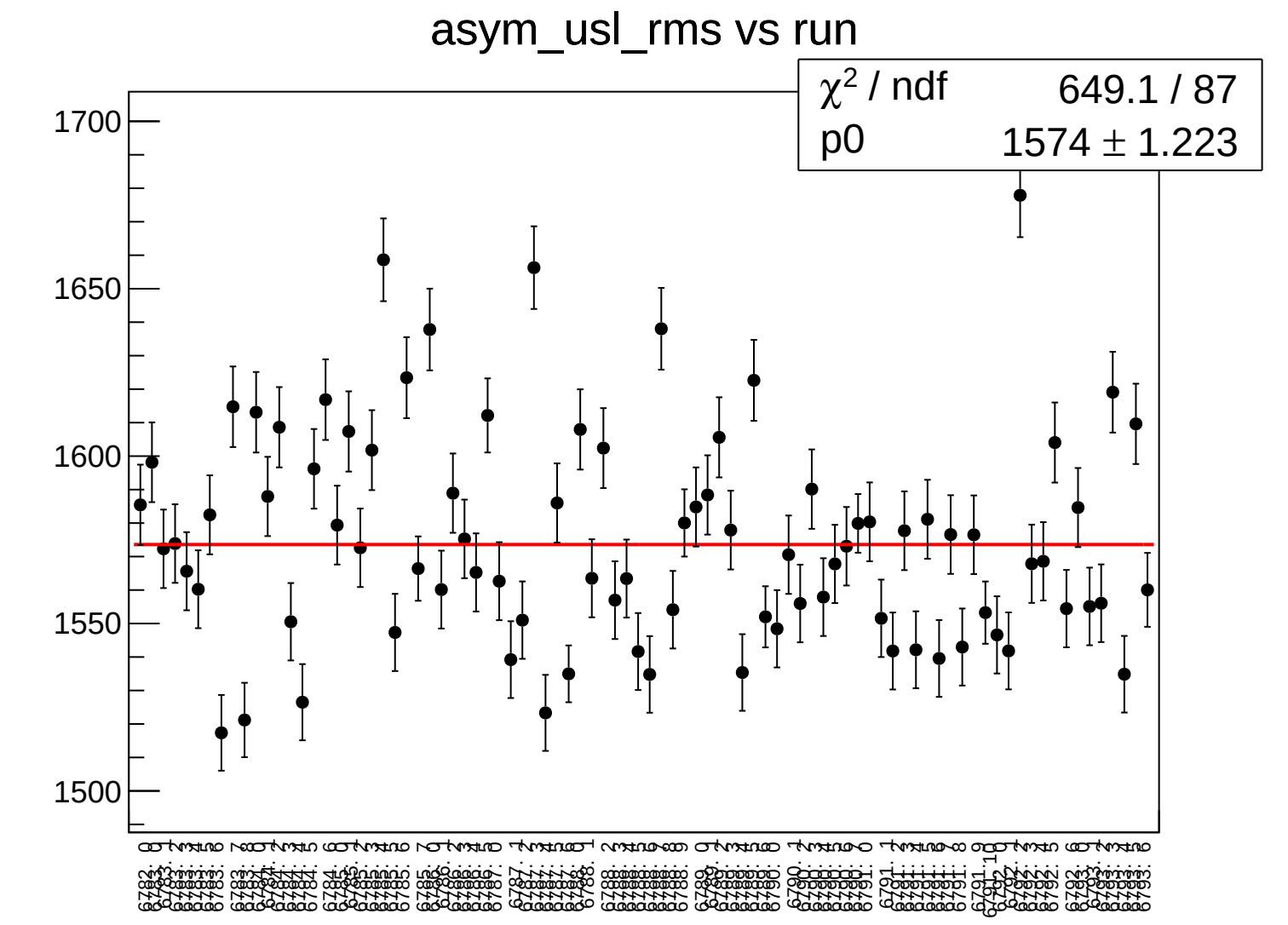

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 111 / 87
p0 −2966 ± 1257
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −126.1
Std Dev 0
2
1
0
−1
−2

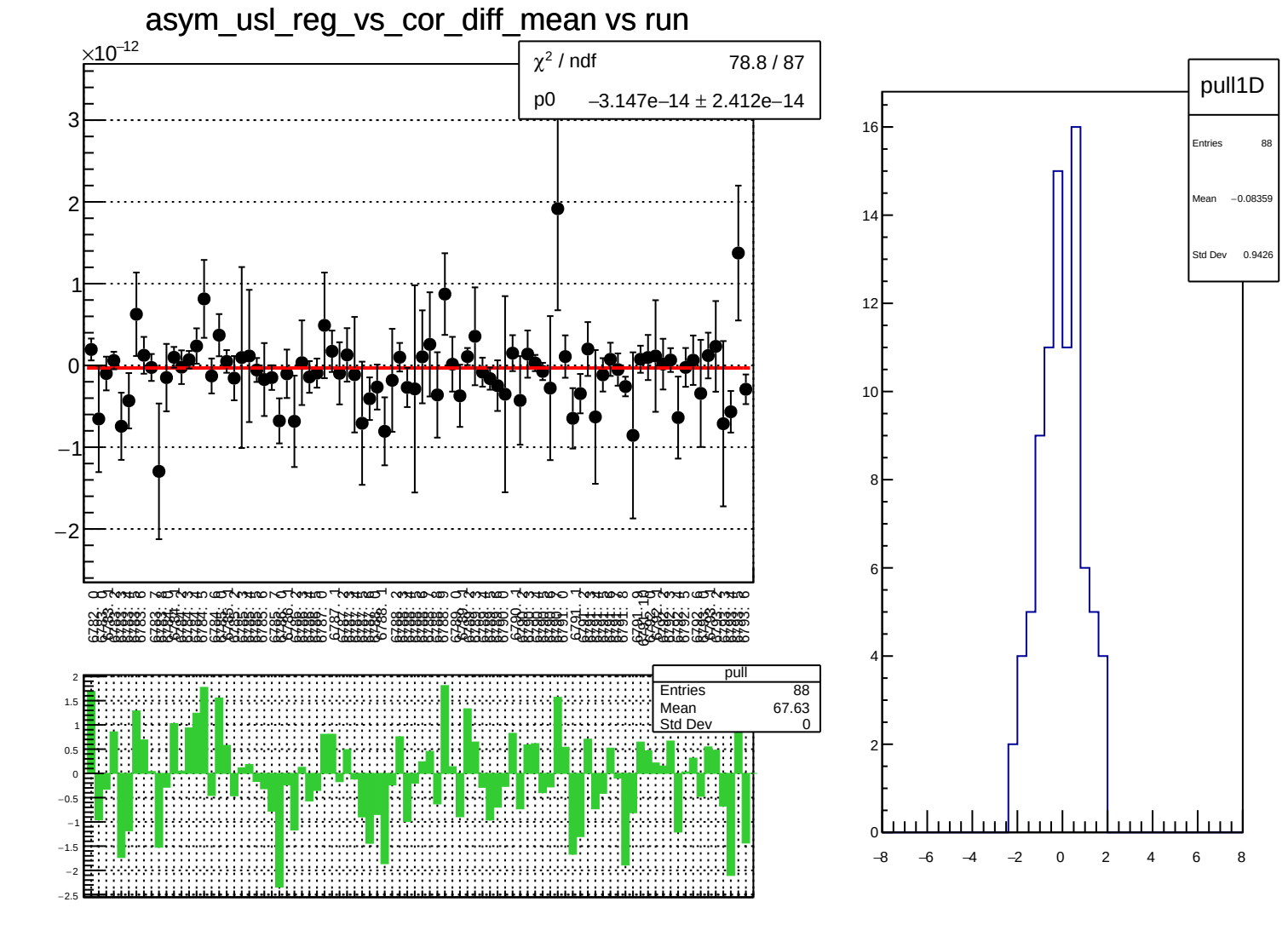

pull1D
Entries 88
Mean −0.01318
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

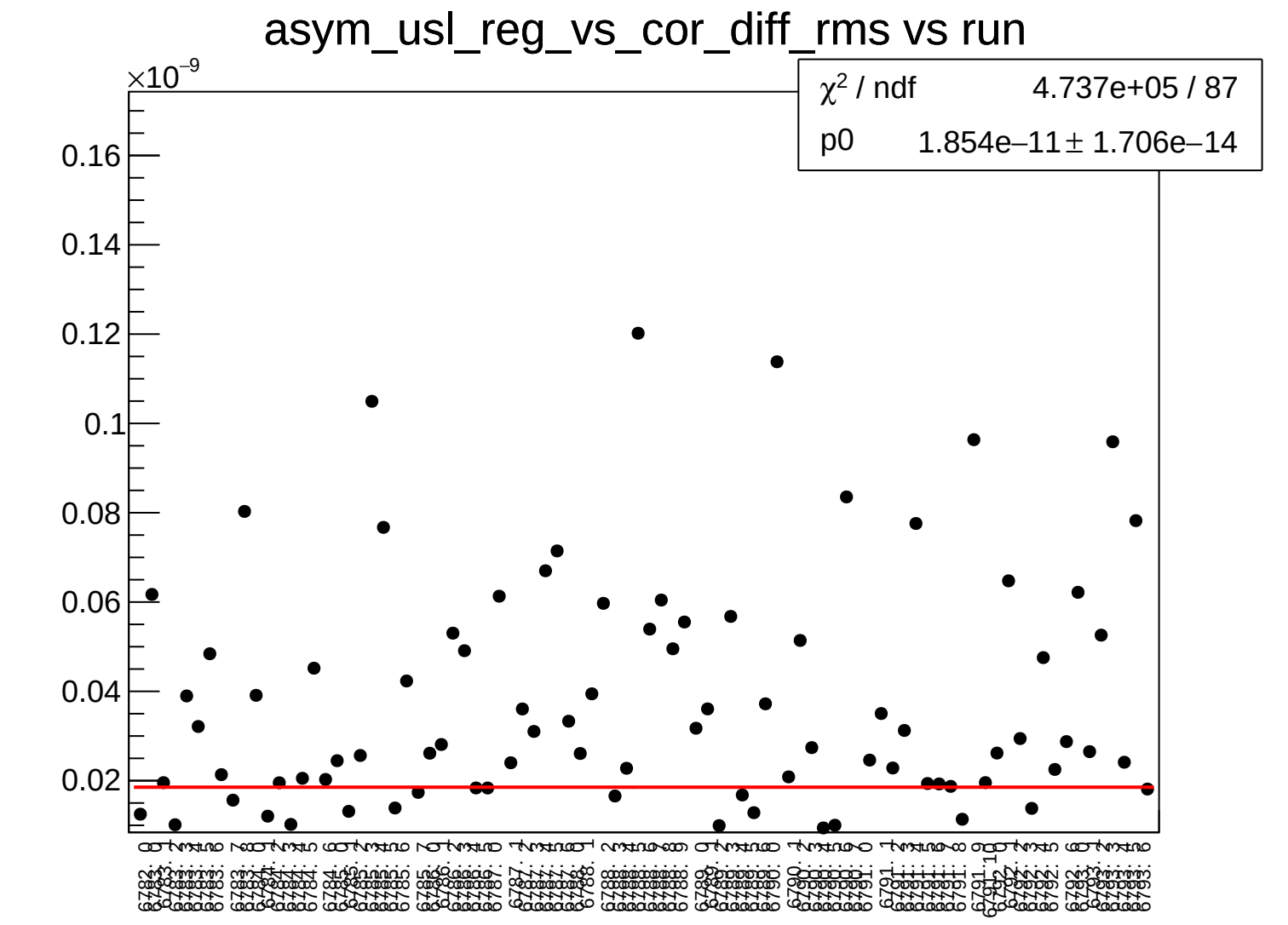

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1537 / 87
p0 1143 ± 0.8888
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

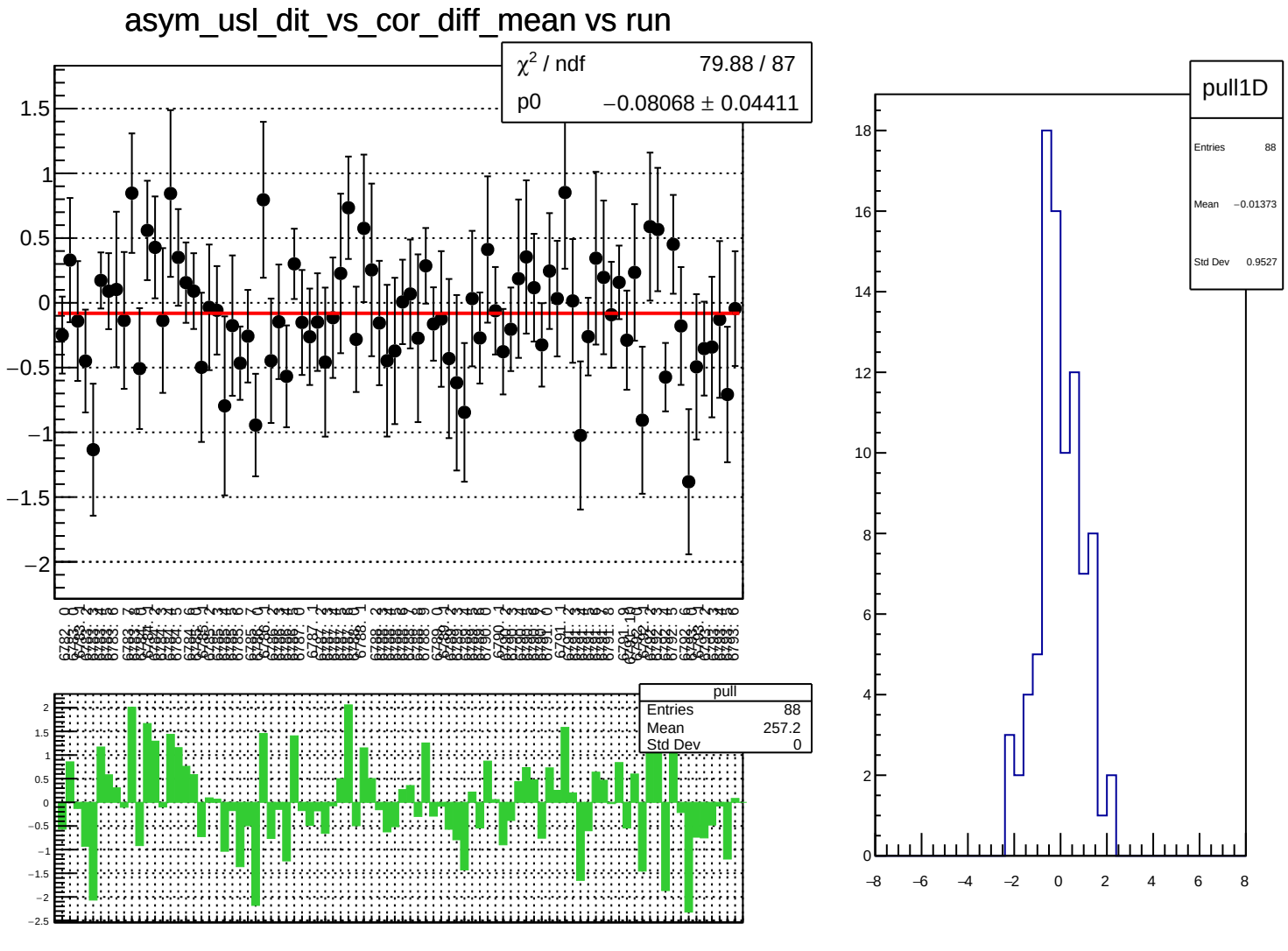

asym_usl_mean vs run
χ² / ndf 111.1 / 87
p0 3159 ± 1730
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −163.9
Std Dev 0
3
2
1
0
−1
−2

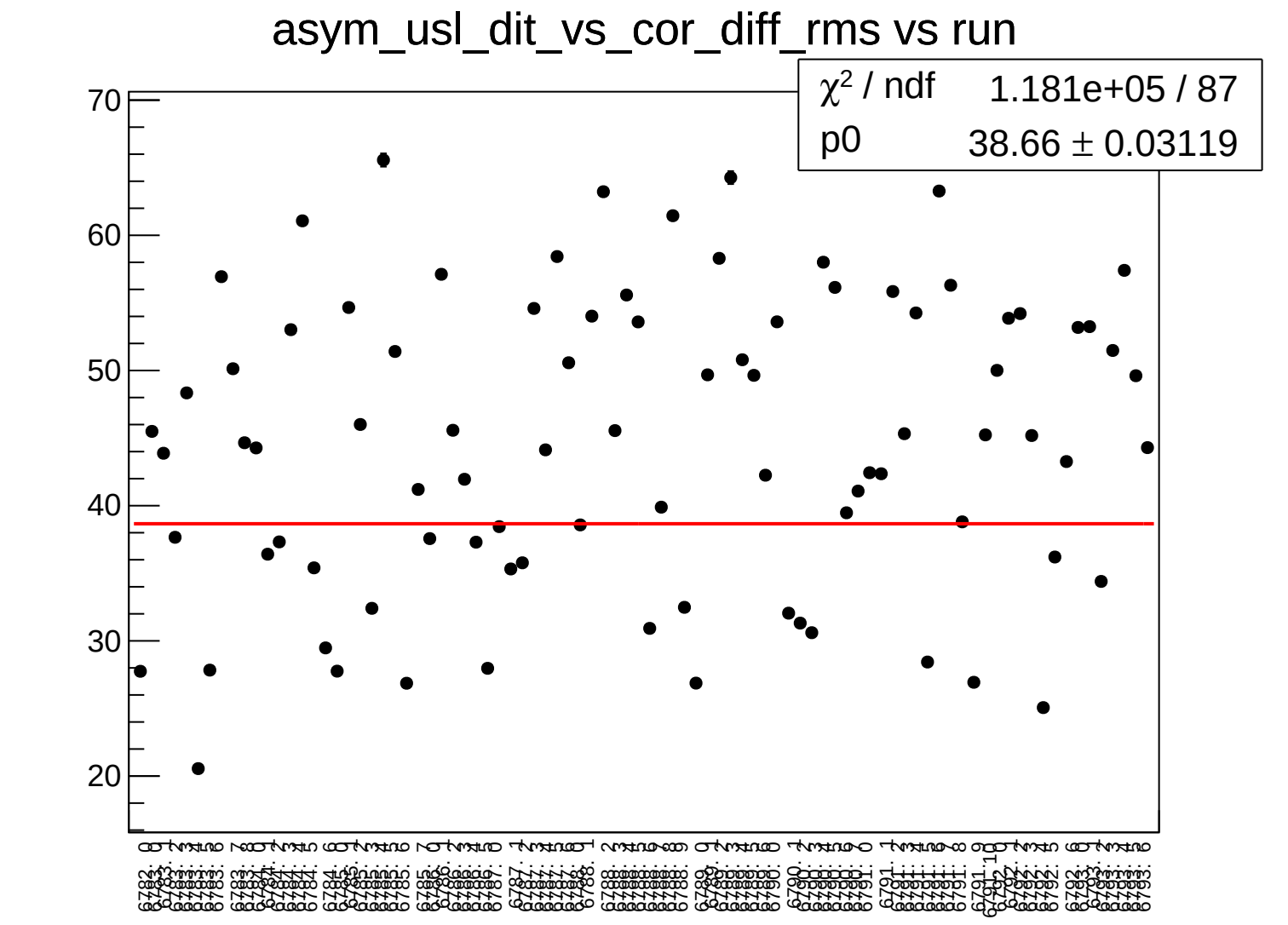

pull1D
Entries 88
Mean 0.009367
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

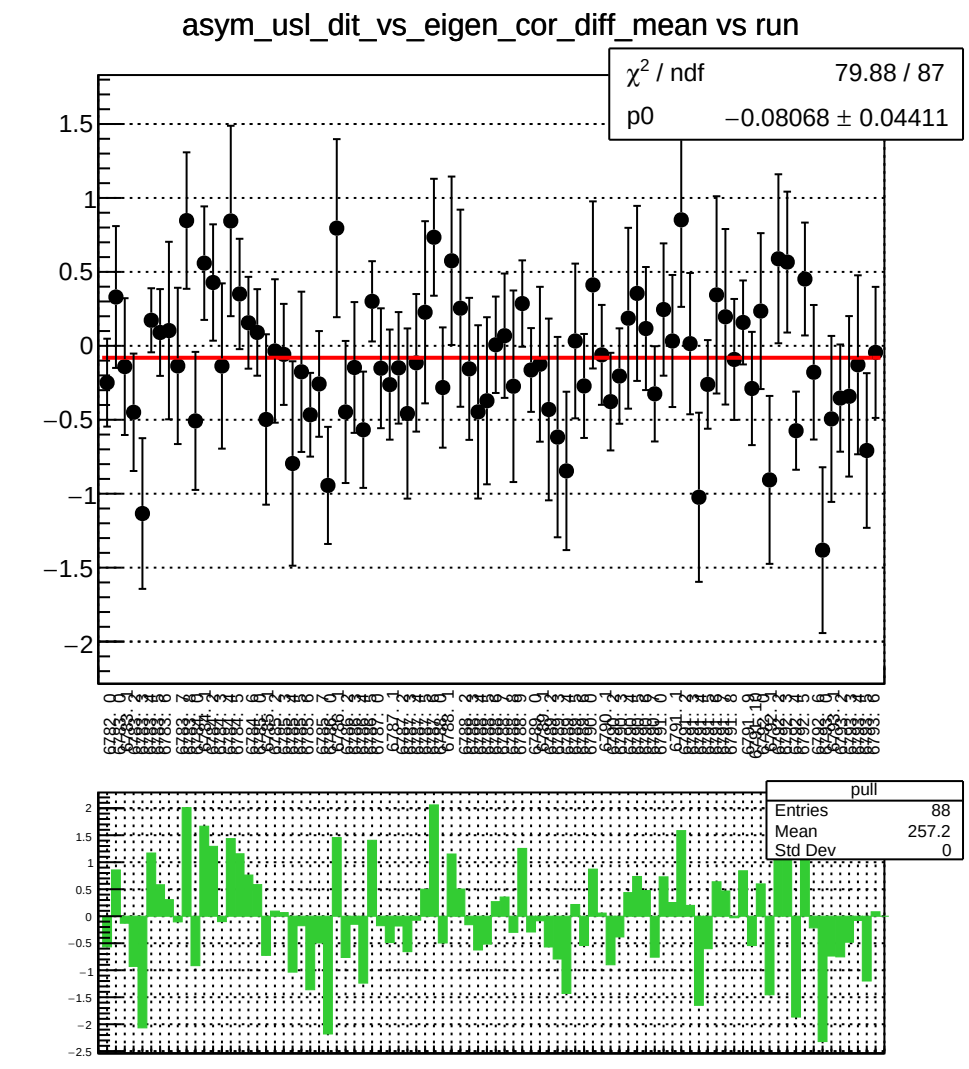

asym_usl_rms vs run
χ² / ndf 649.1 / 87
p0 1574 ± 1.223
1700
1650
1600
1550
1500

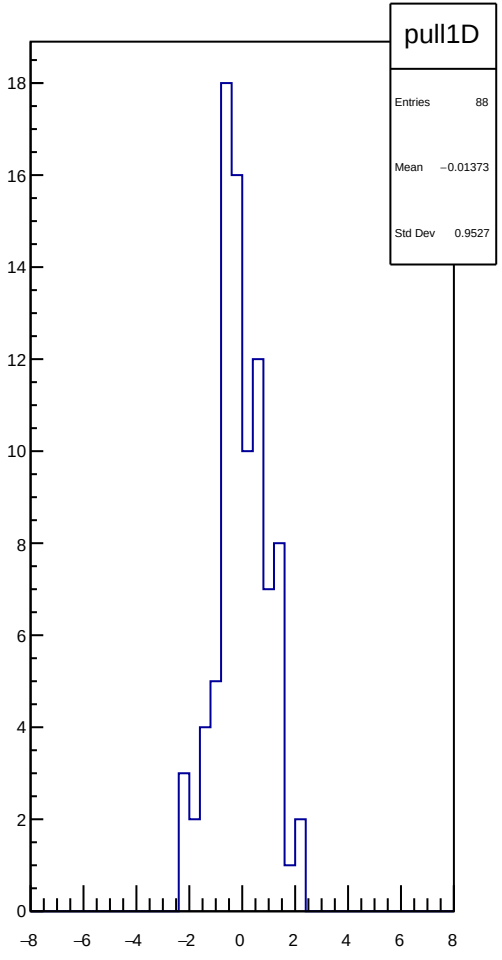

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.8 / 87
p0 −3.147e−14 ± 2.412e−14
pull
Entries 88
Mean 67.63
Std Dev 0
pull1D
Entries 88
Mean −0.08359
Std Dev 0.9426

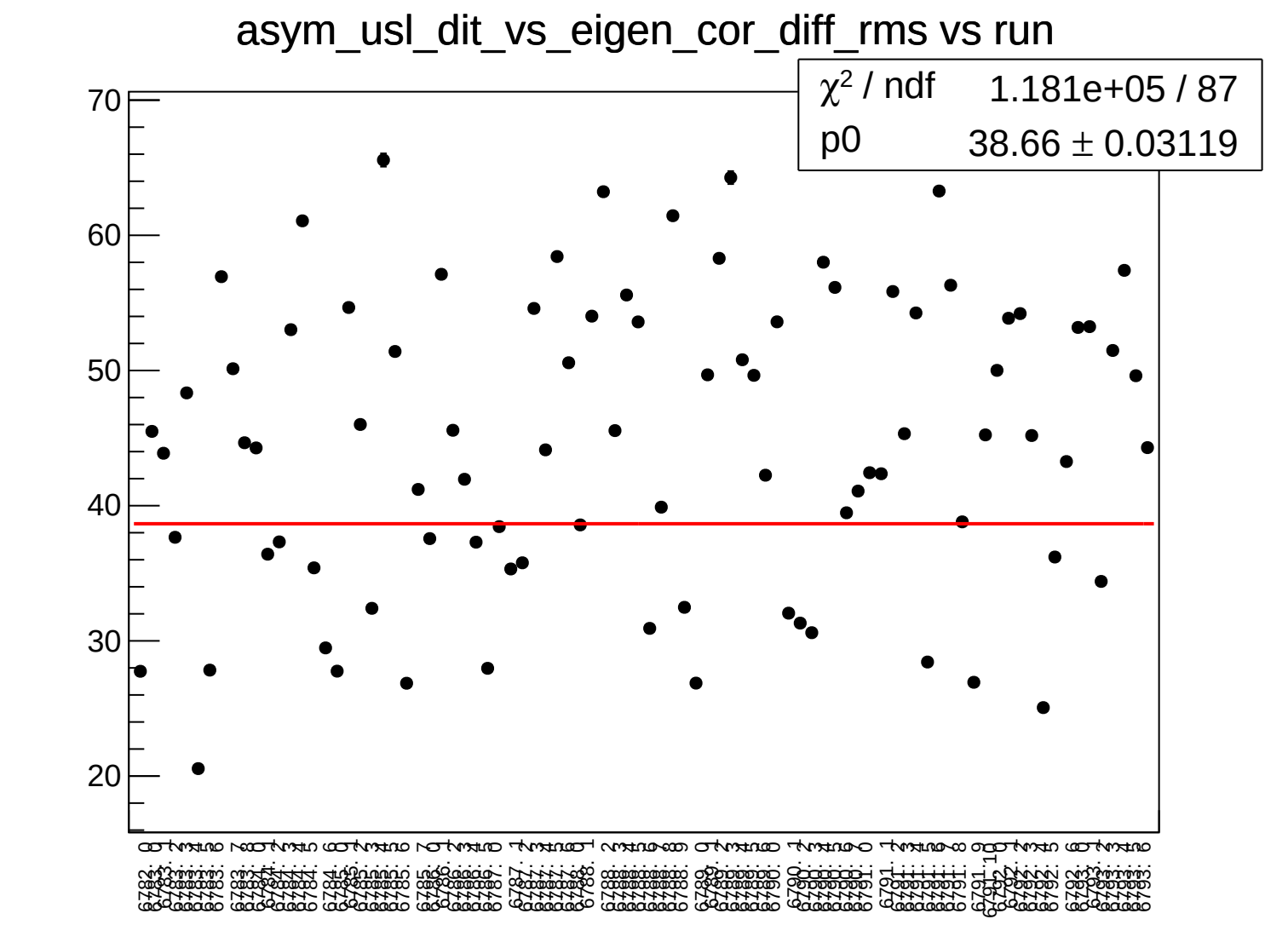

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.737e+05 / 87
p0 1.854e−11 ± 1.706e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

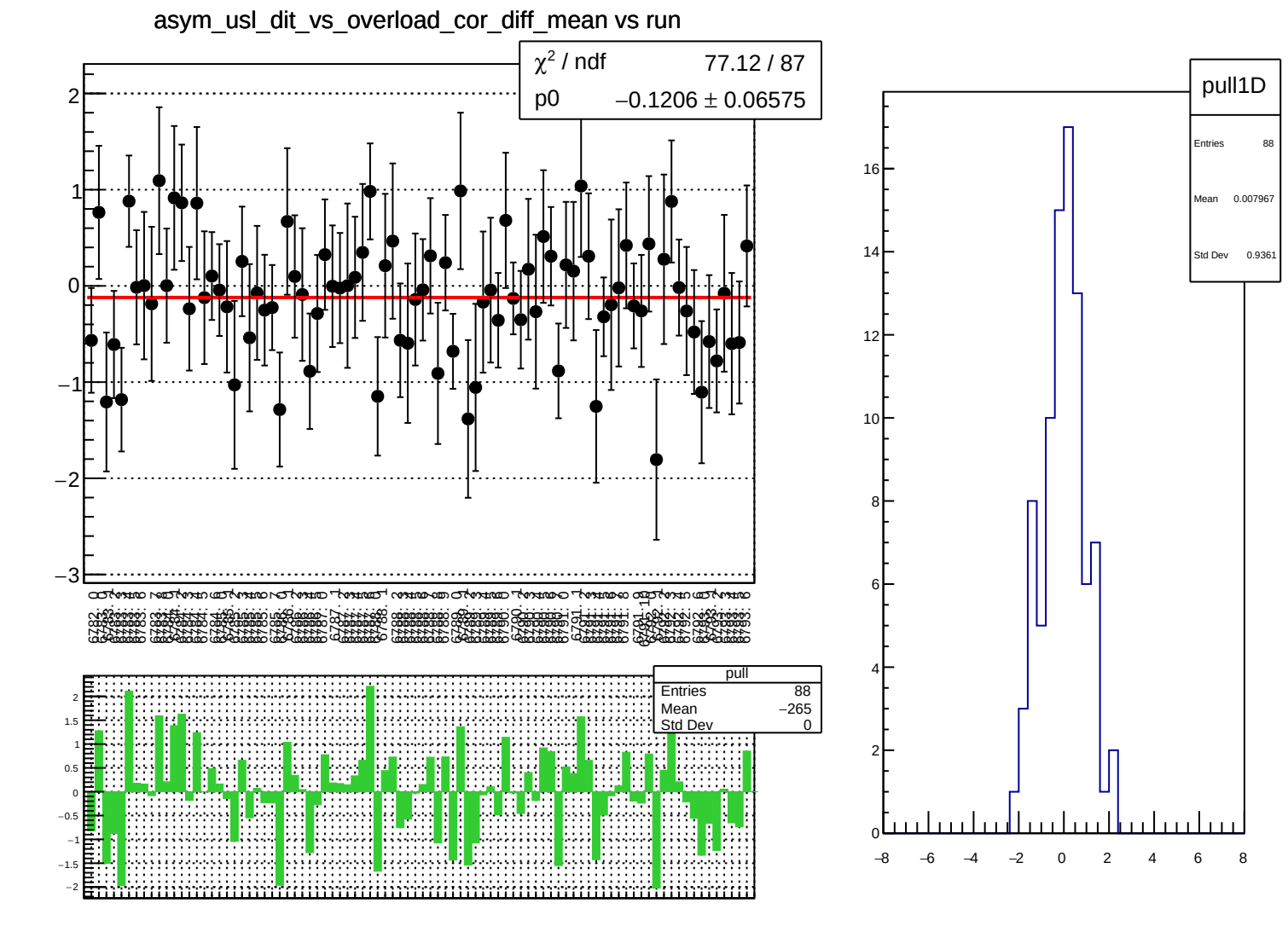

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 79.88 / 87
p0 −0.08068 ± 0.04411
pull
Entries 88
Mean 257.2
Std Dev 0
pull1D
Entries 88
Mean −0.01373
Std Dev 0.9527

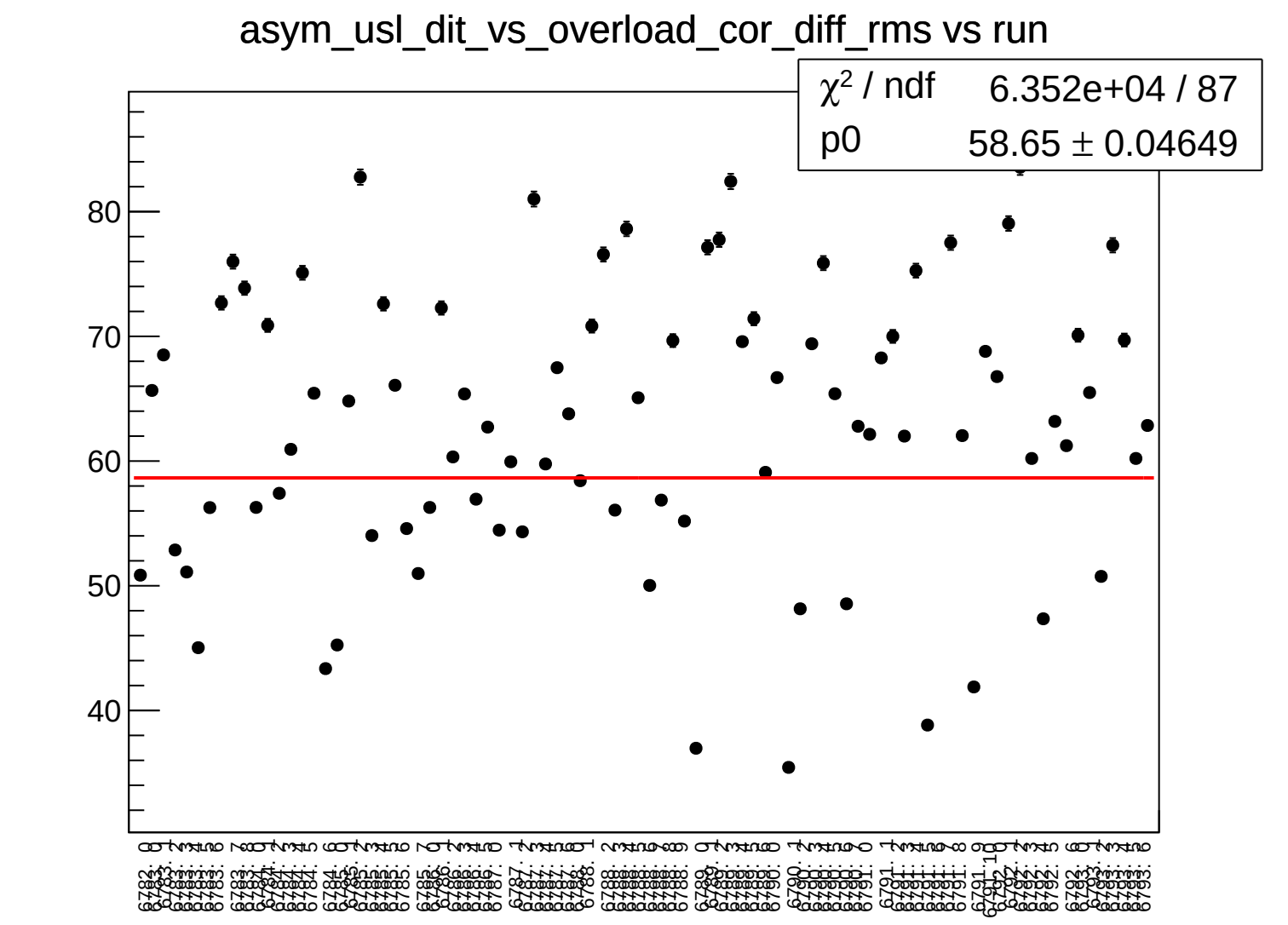

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.181e+05 / 87
p0 38.66 ± 0.03119
70
60
50
40
30
20

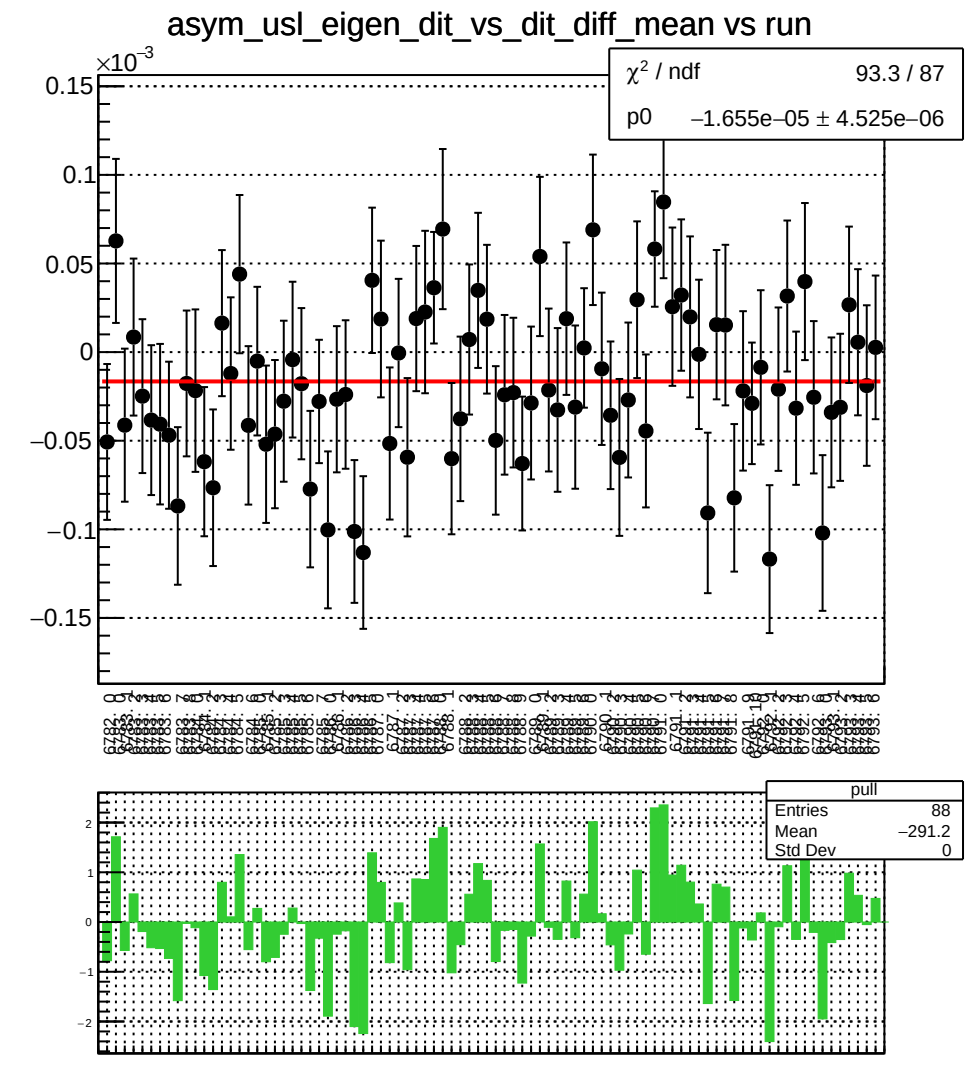

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.88 / 87
p0 −0.08068 ± 0.04411
pull
Entries 88
Mean 257.2
Std Dev 0

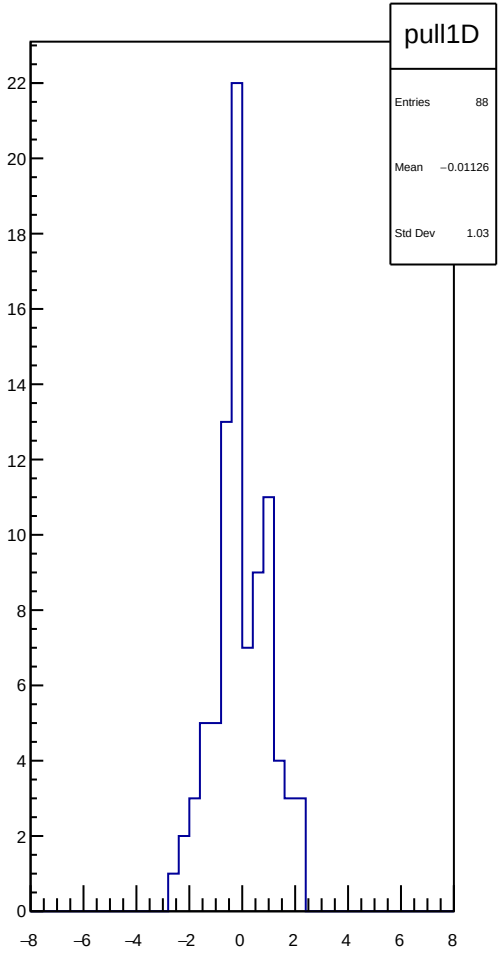

pull1D
Entries 88
Mean −0.01373
Std Dev 0.9527

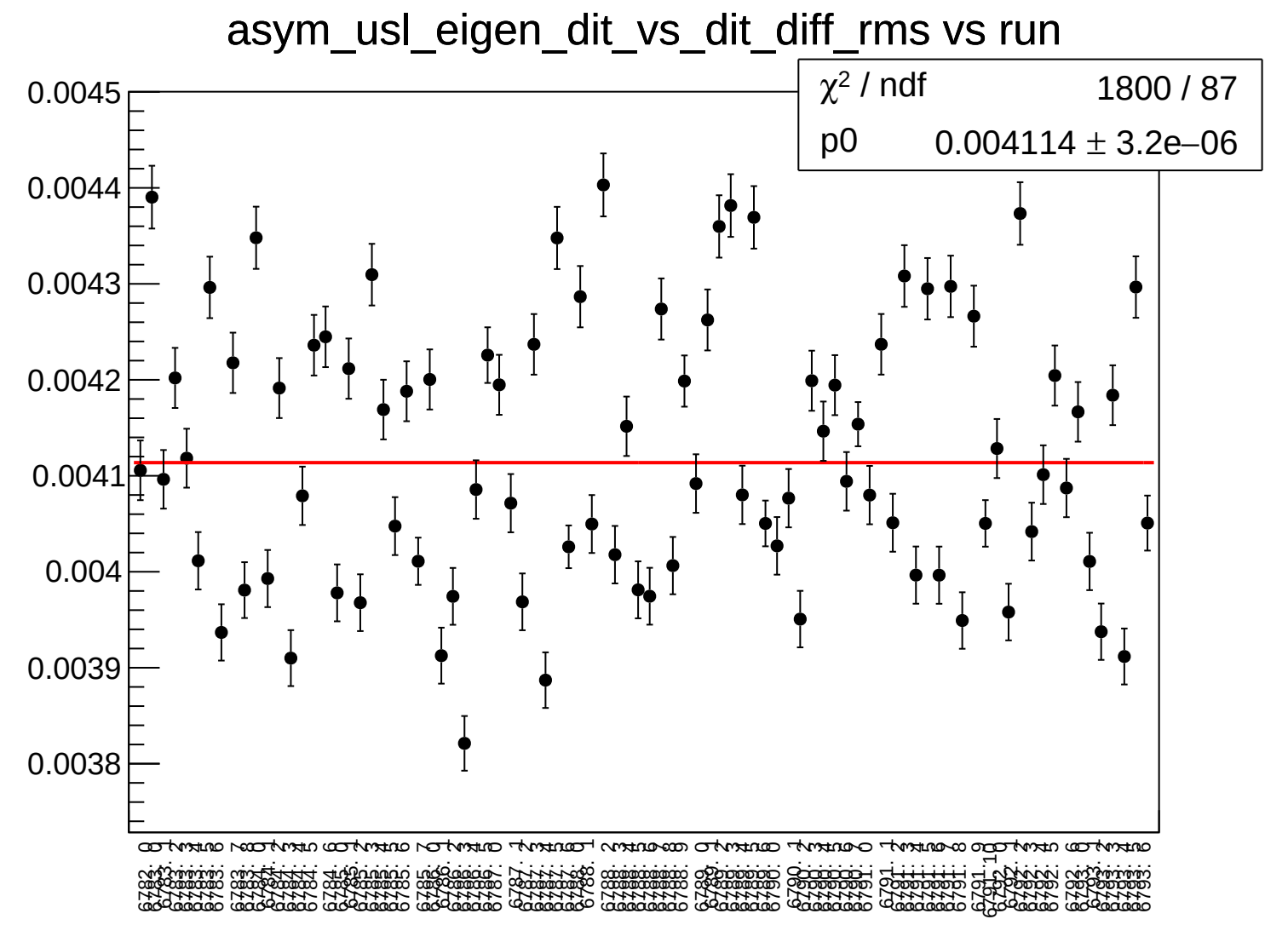

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.181e+05 / 87
p0 38.66 ± 0.03119
70
60
50
40
30
20

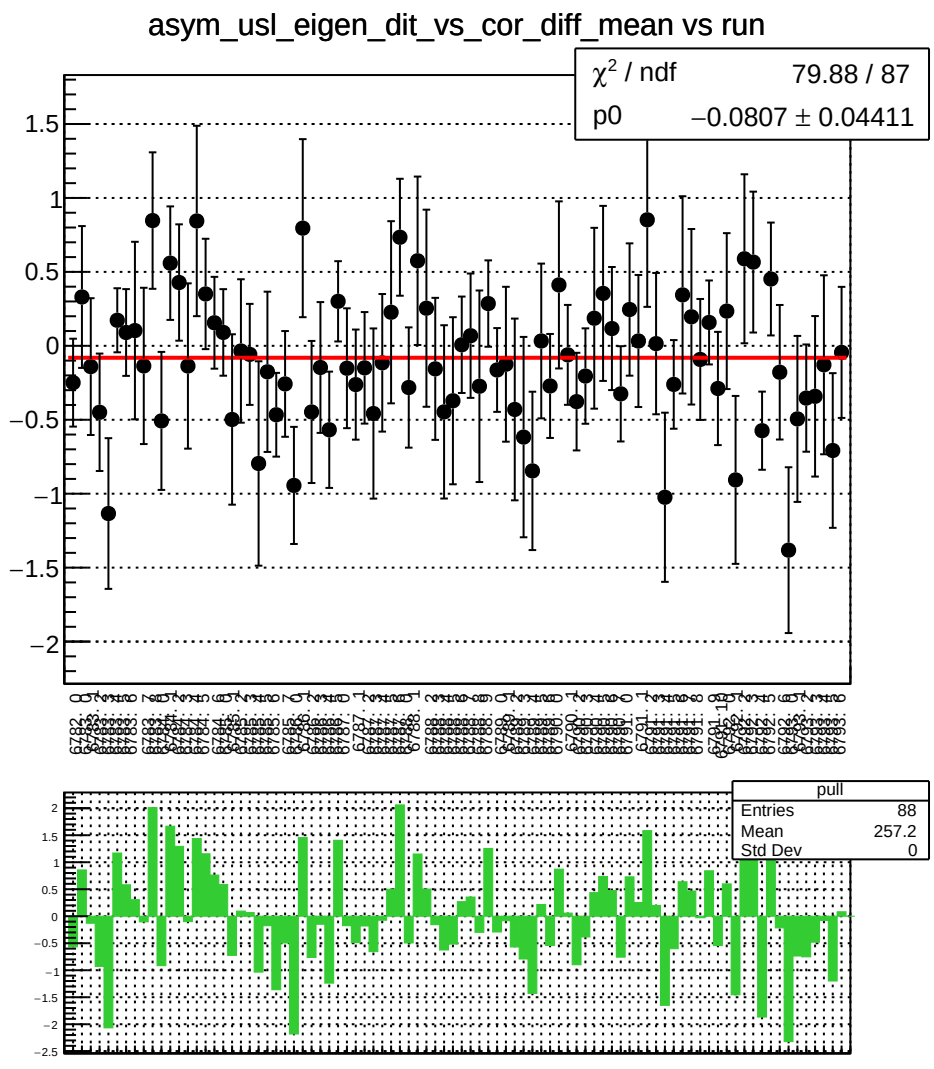

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 77.12 / 87
p0 −0.1206 ± 0.06575
pull
Entries 88
Mean −265
Std Dev 0
pull1D
Entries 88
Mean 0.007967
Std Dev 0.9361

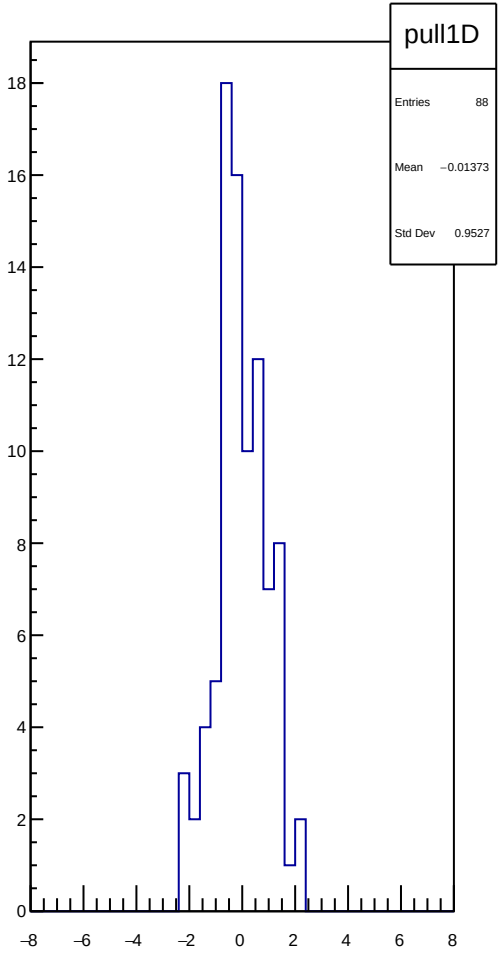

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.352e+04 / 87
p0 58.65 ± 0.04649
80
70
60
50
40

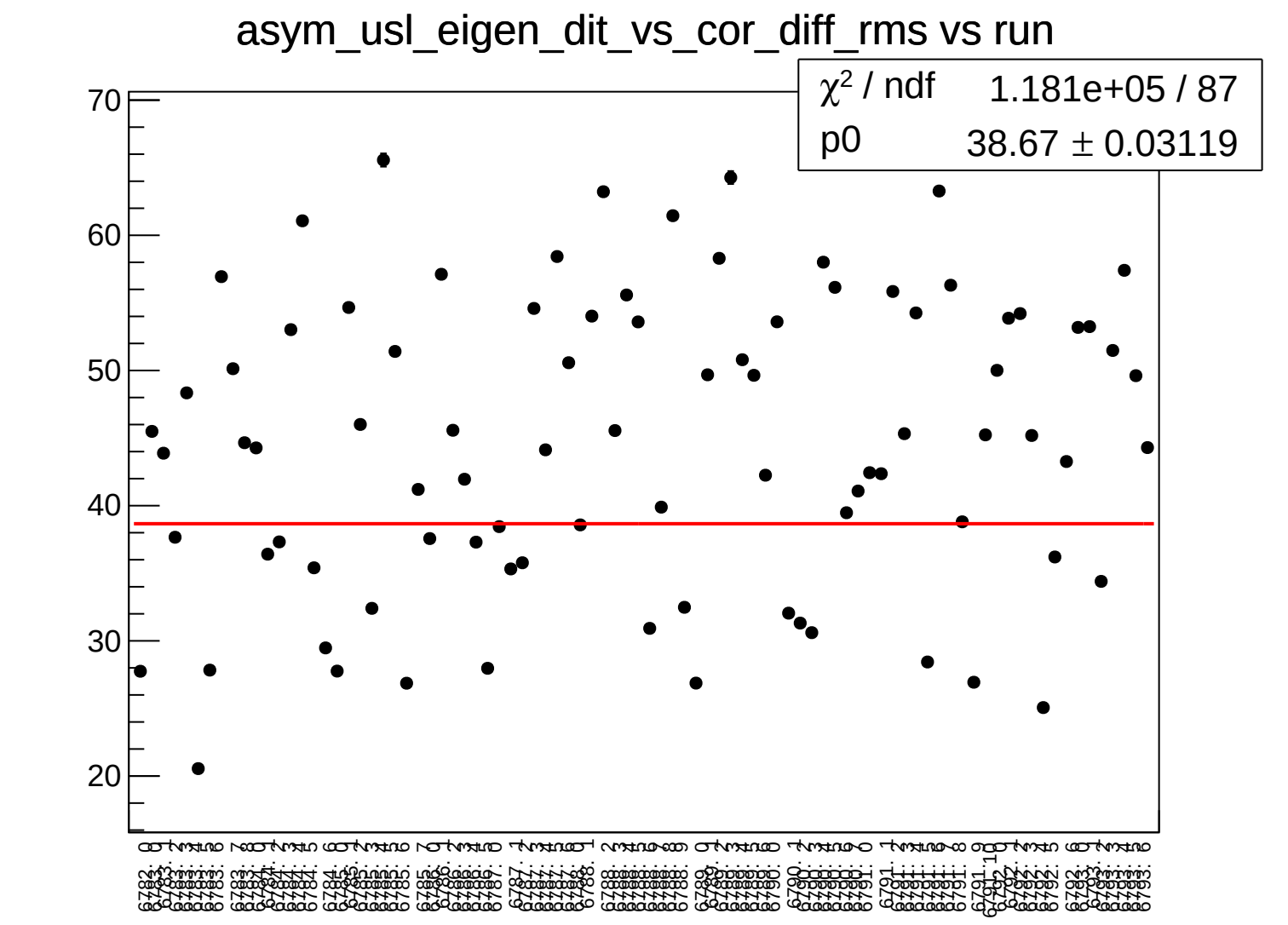

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.3 / 87
p0 −1.655e−05 ± 4.525e−06
pull
Entries 88
Mean −291.2
Std Dev 0

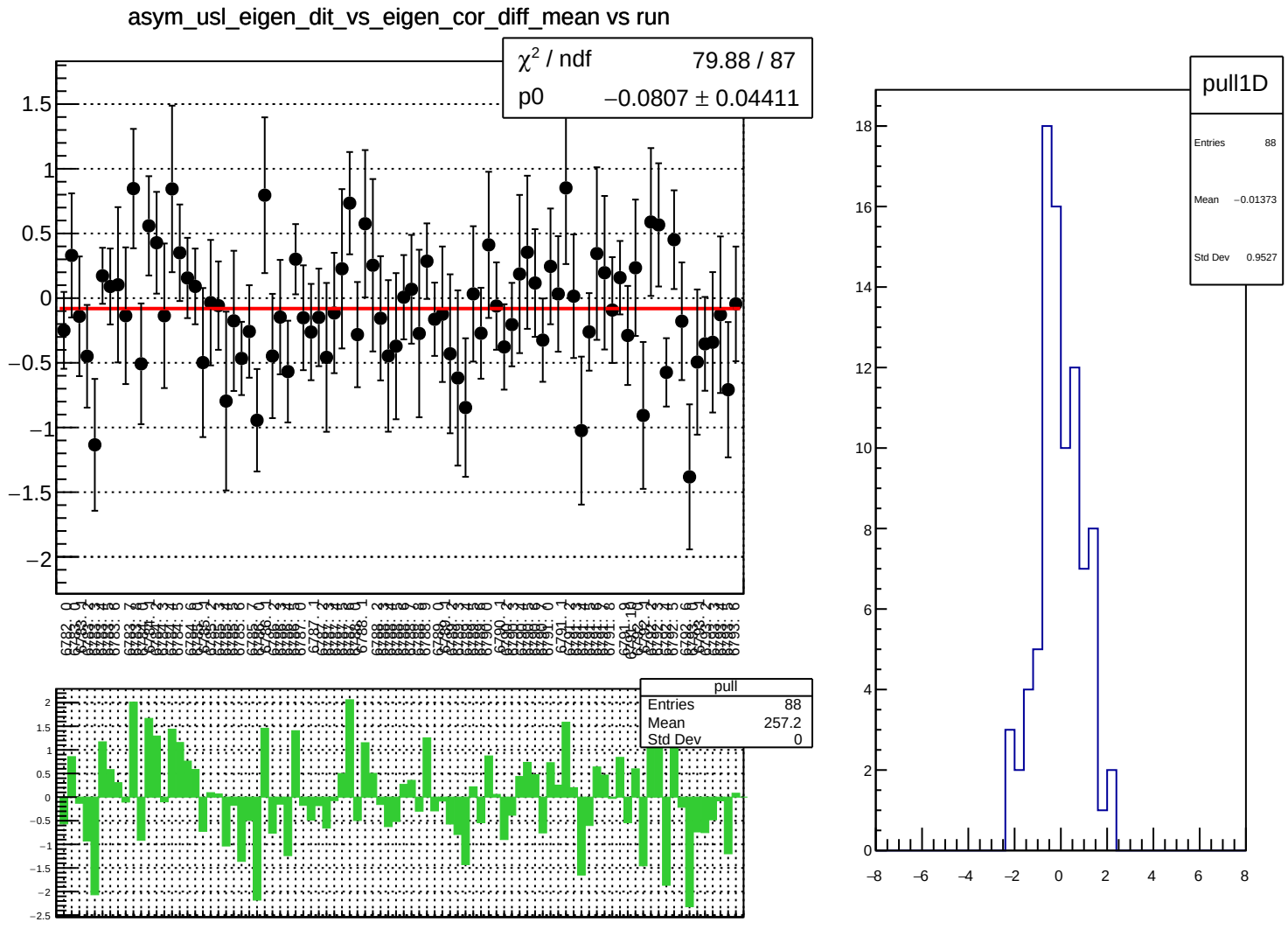

pull1D
Entries 88
Mean −0.01126
Std Dev 1.03

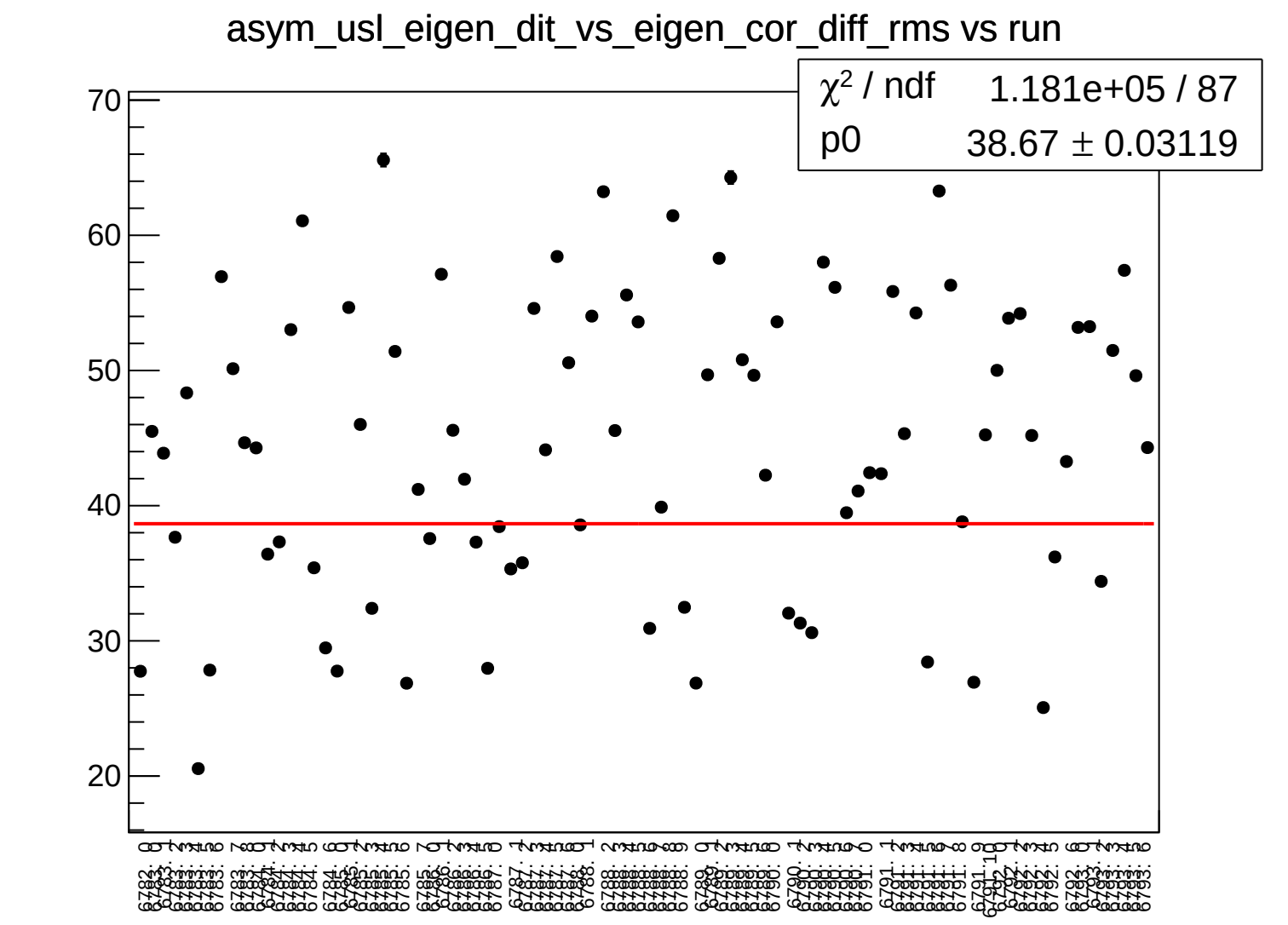

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1800 / 87
p0 0.004114 ± 3.2e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038

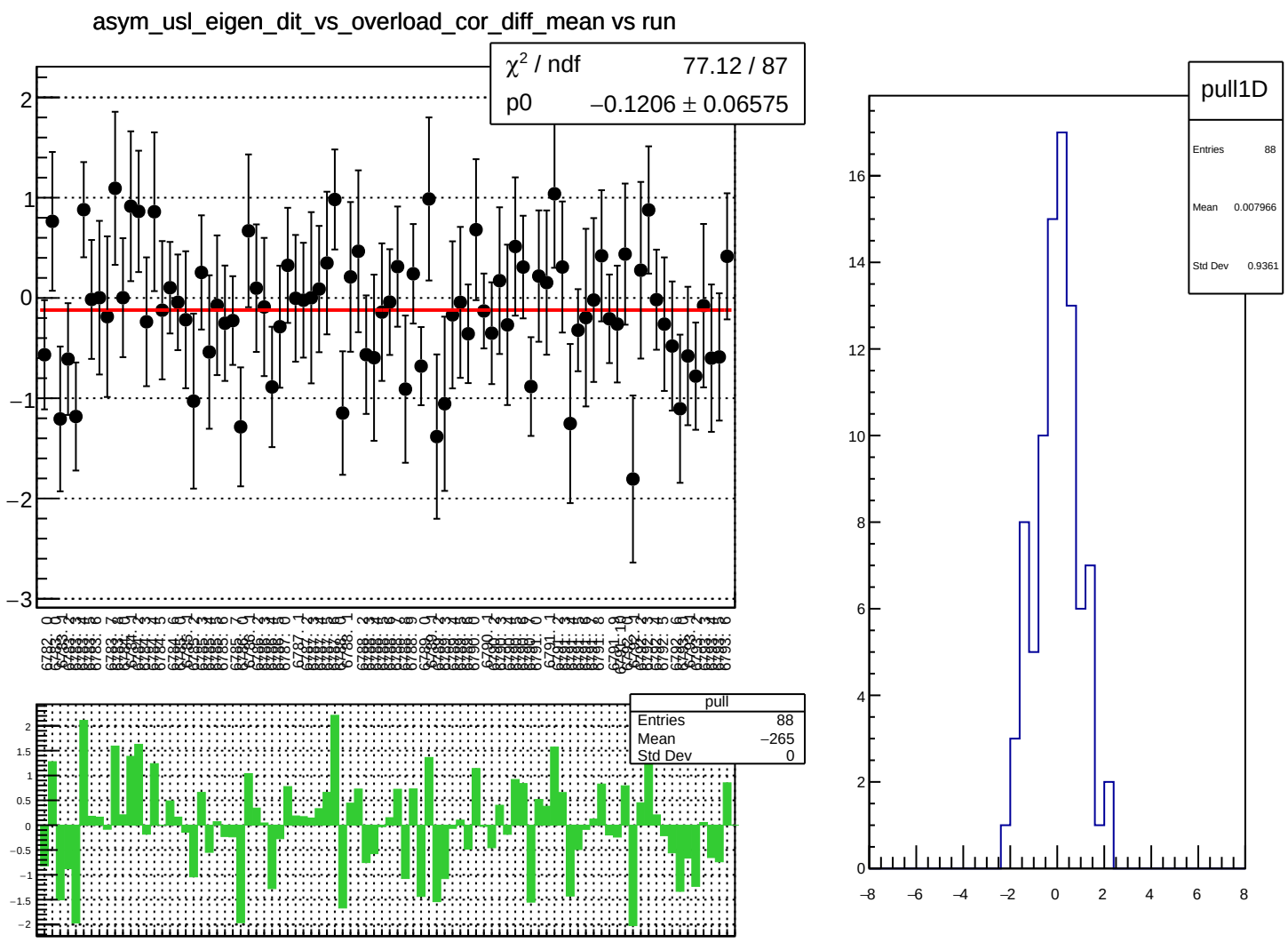

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.88 / 87
p0 −0.0807 ± 0.04411
pull
Entries 88
Mean 257.2
Std Dev 0

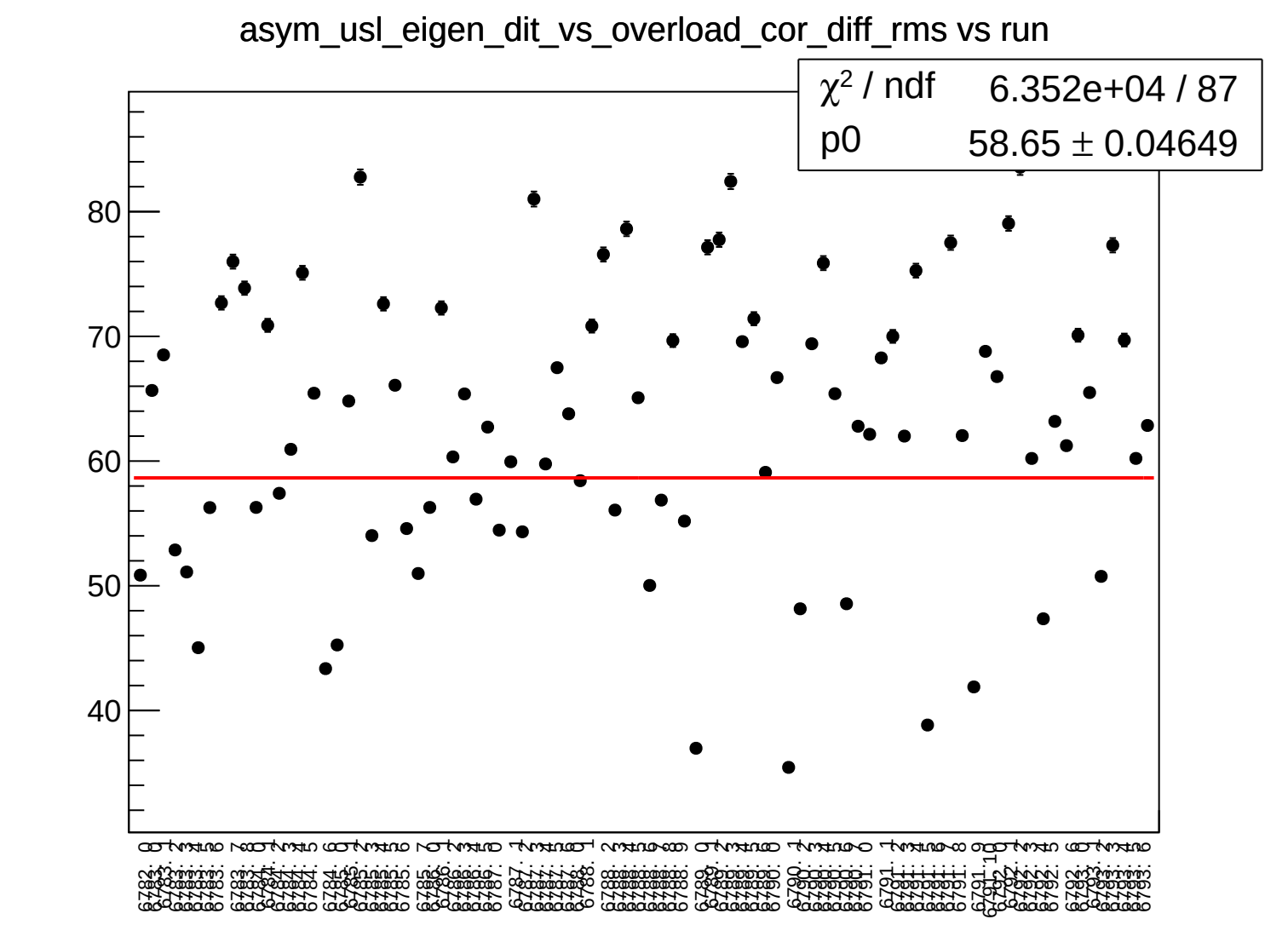

pull1D
Entries 88
Mean −0.01373
Std Dev 0.9527

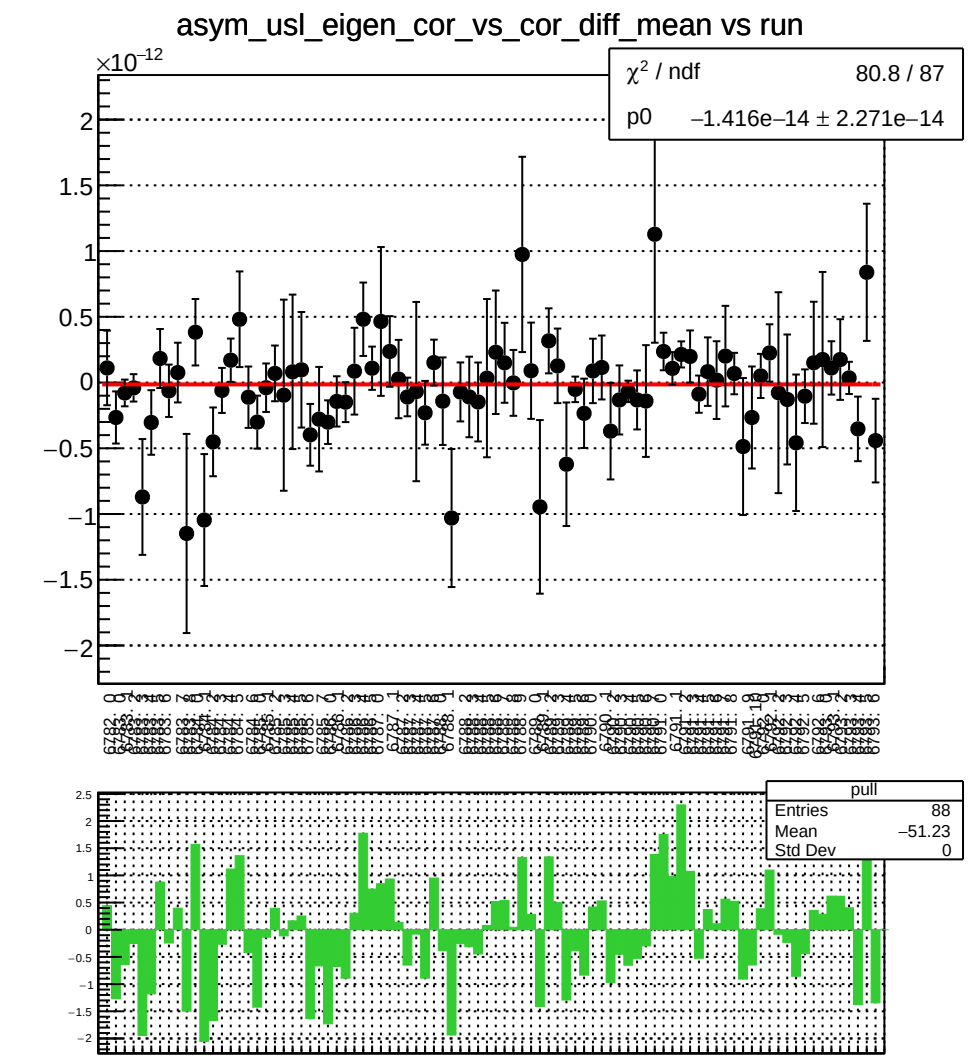

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.181e+05 / 87
p0 38.67 ± 0.03119
70
60
50
40
30
20

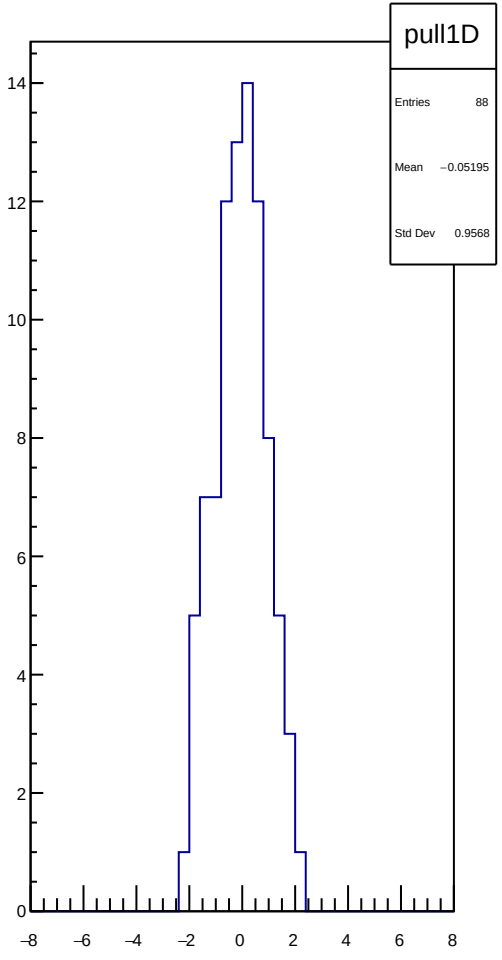

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.88 / 87
p0 −0.0807 ± 0.04411
pull
Entries 88
Mean 257.2
Std Dev 0
pull1D
Entries 88
Mean −0.01373
Std Dev 0.9527

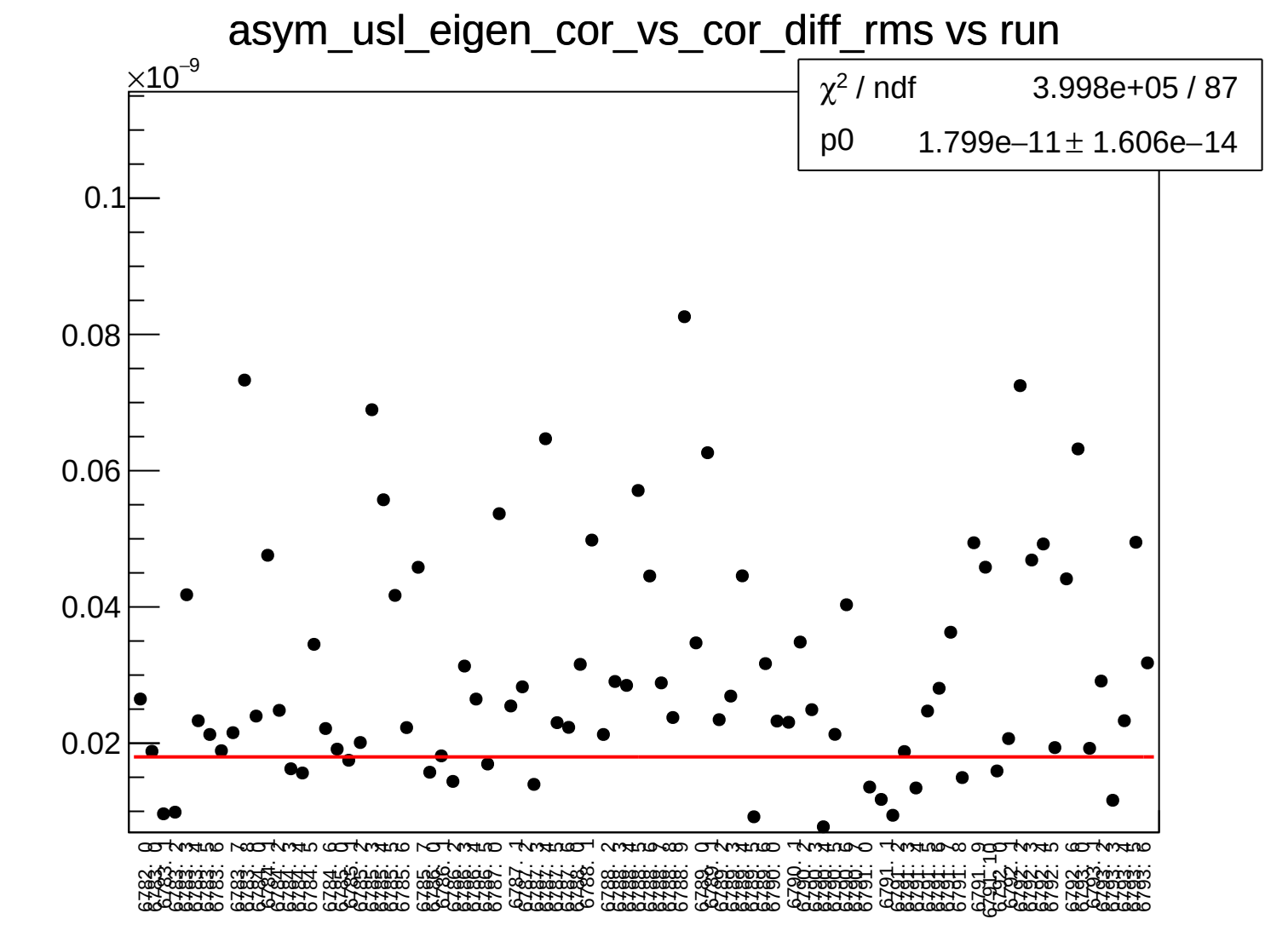

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.181e+05 / 87
p0 38.67 ± 0.03119
70
60
50
40
30
20

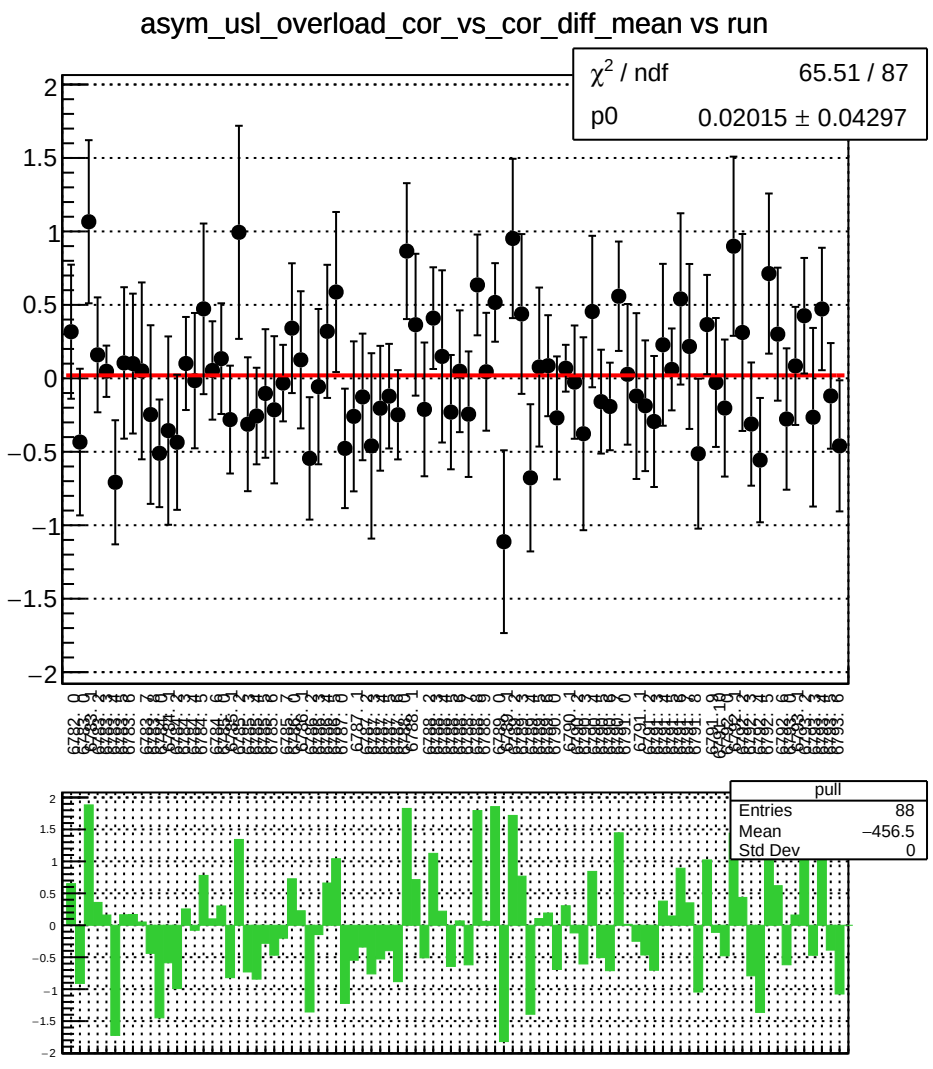

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 77.12 / 87
p0 −0.1206 ± 0.06575
pull
Entries 88
Mean −265
Std Dev 0
pull1D
Entries 88
Mean 0.007966
Std Dev 0.9361

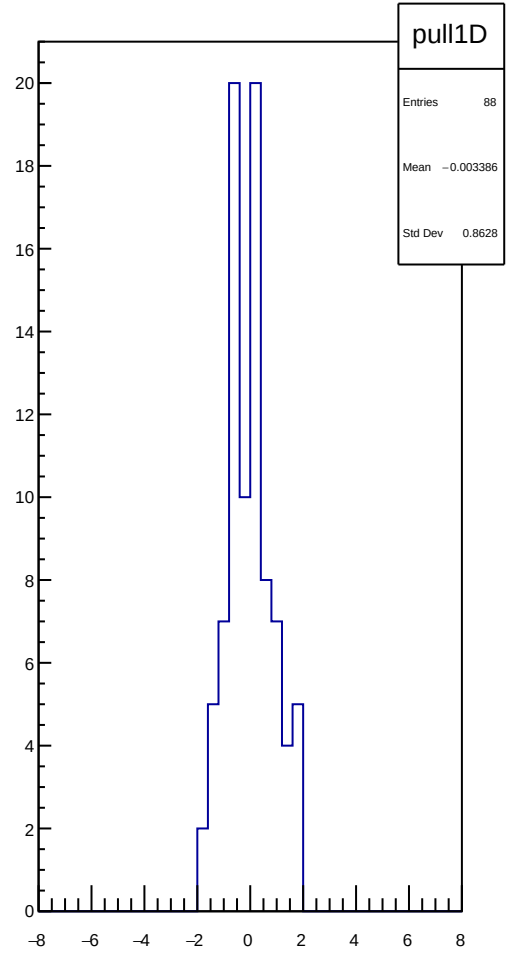

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.352e+04 / 87
p0 58.65 ± 0.04649
80
70
60
50
40

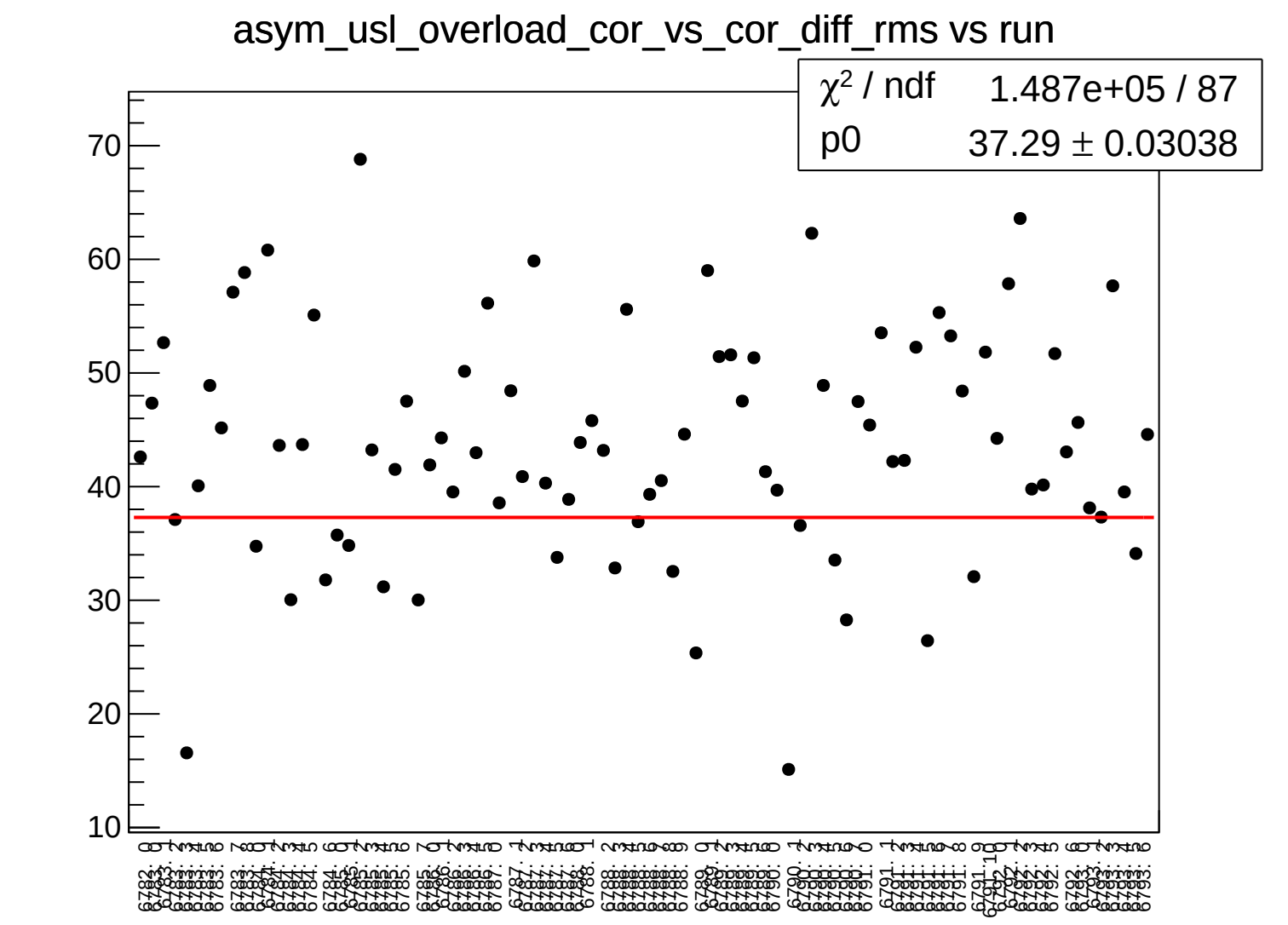

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.8 / 87
p0 −1.416e−14 ± 2.271e−14
pull
Entries 88
Mean −51.23
Std Dev 0

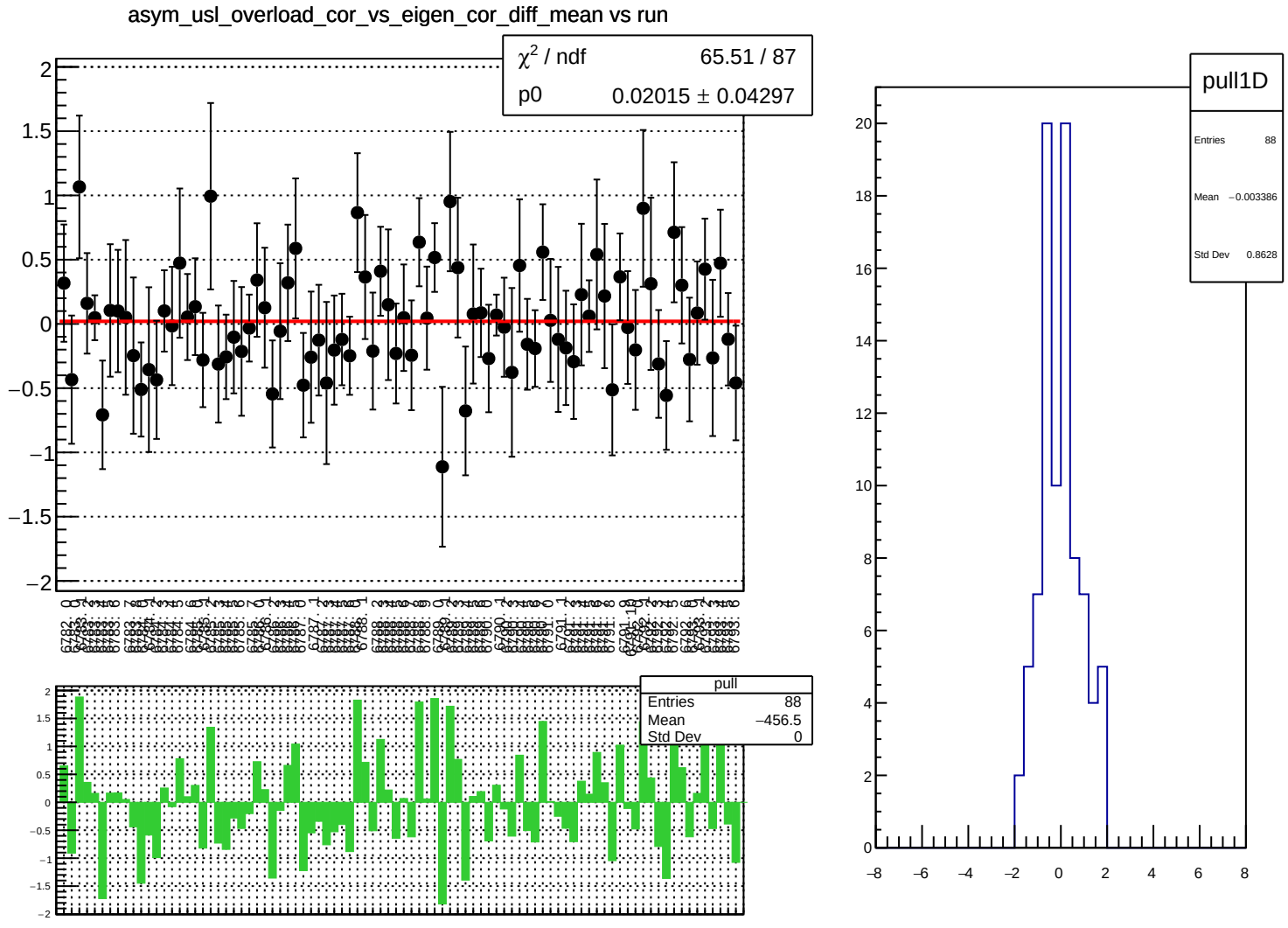

pull1D
Entries 88
Mean −0.05195
Std Dev 0.9568

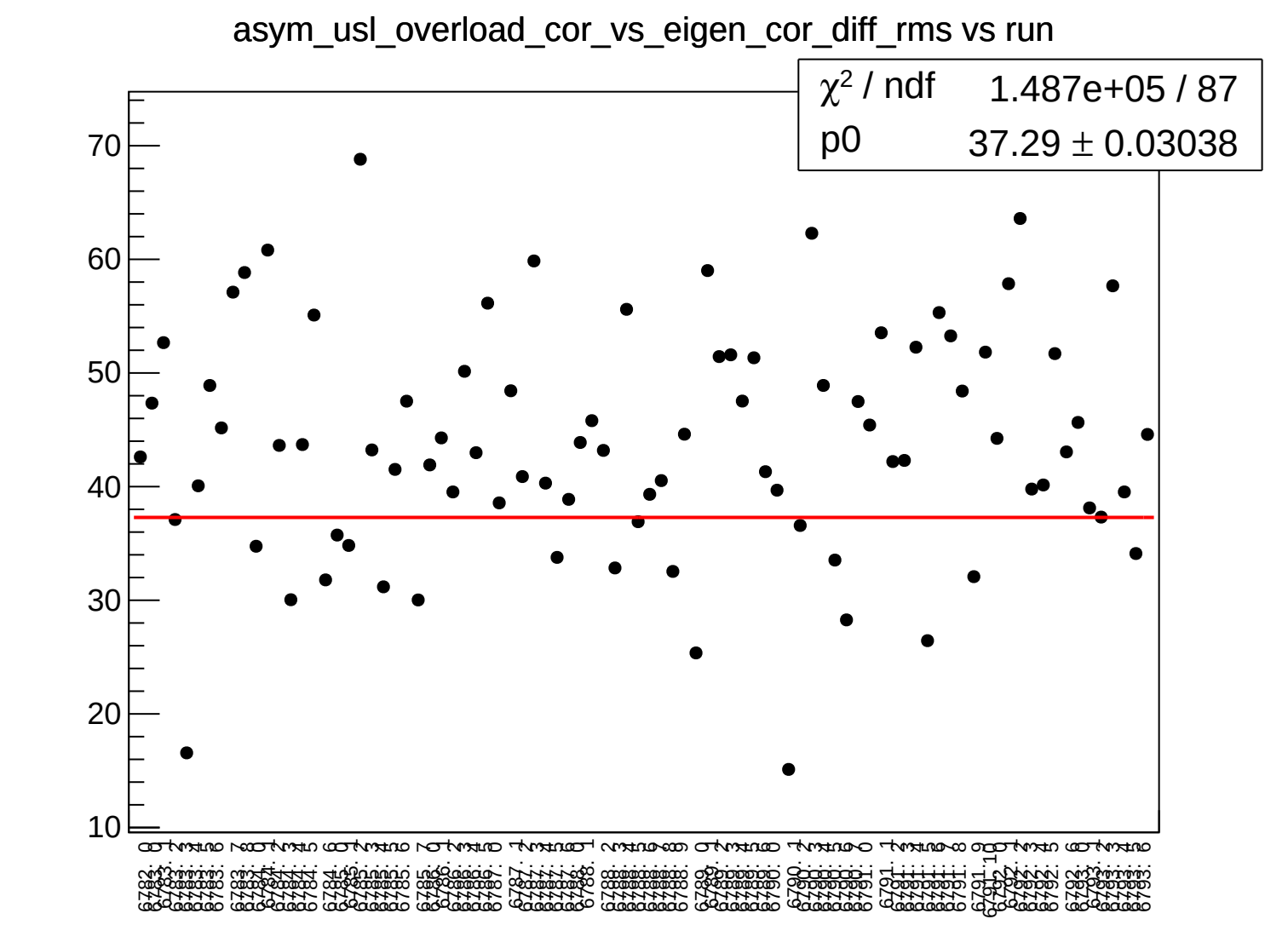

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.998e+05 / 87
p0 1.799e−11 ± 1.606e−14
0.1
0.08
0.06
0.04
0.02

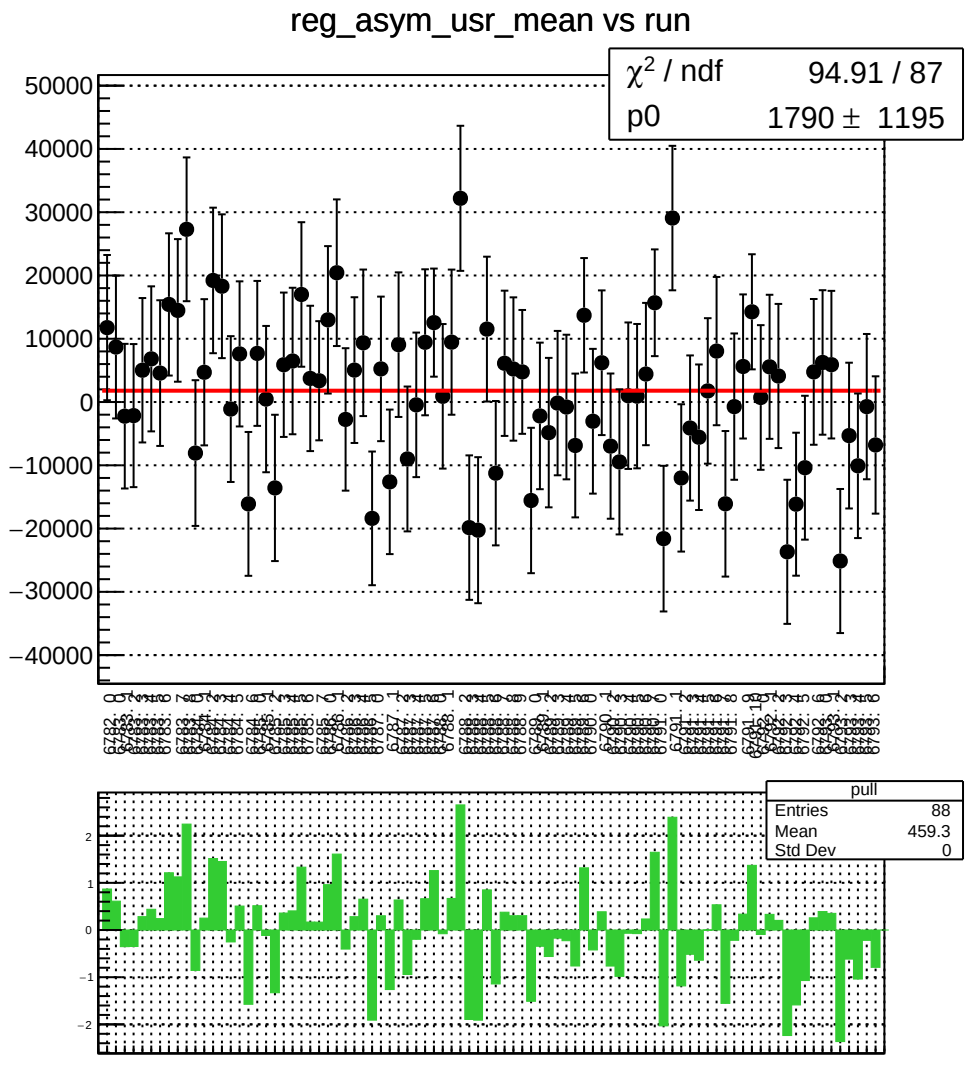

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 65.51 / 87
p0 0.02015 ± 0.04297
pull
Entries 88
Mean −456.5
Std Dev 0

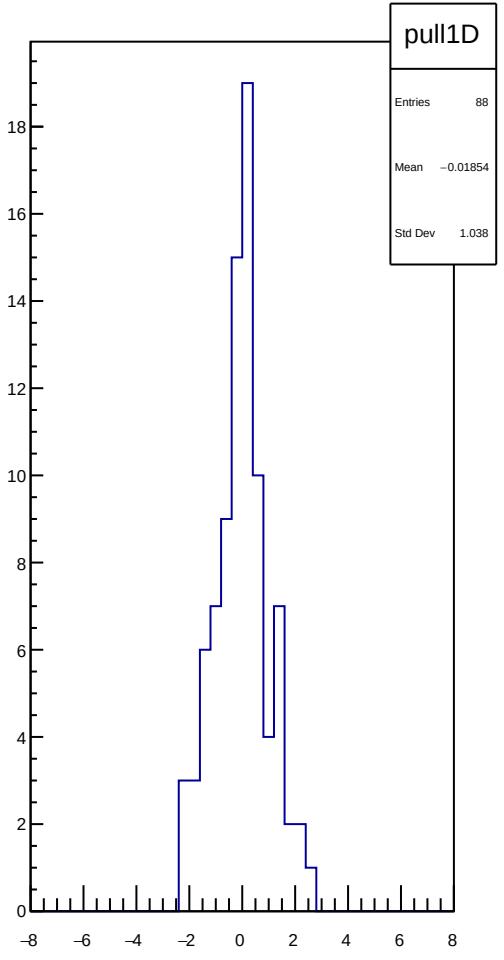

pull1D
Entries 88
Mean −0.003386
Std Dev 0.8628

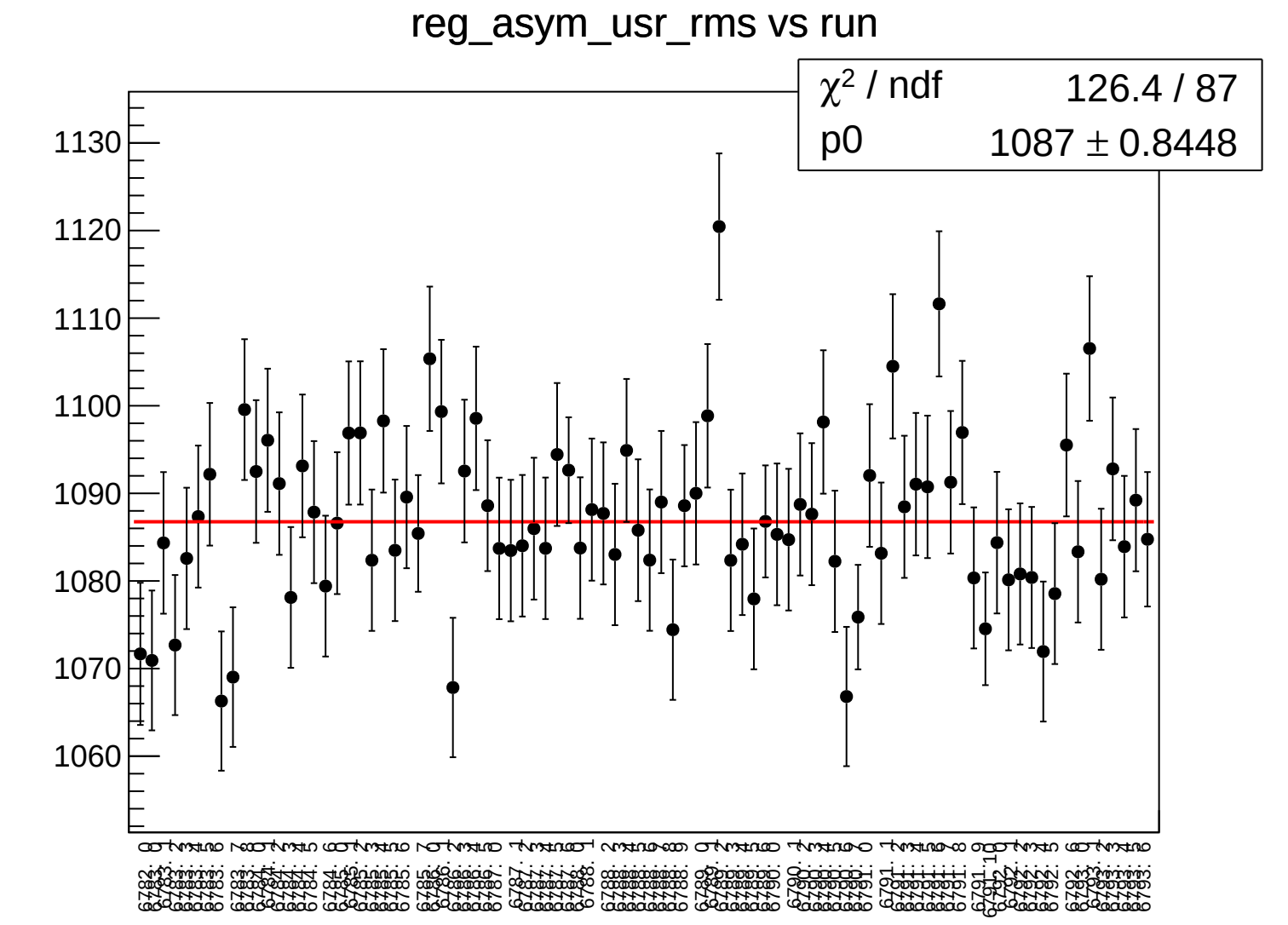

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.487e+05 / 87
p0 37.29 ± 0.03038
70
60
50
40
30
20
10

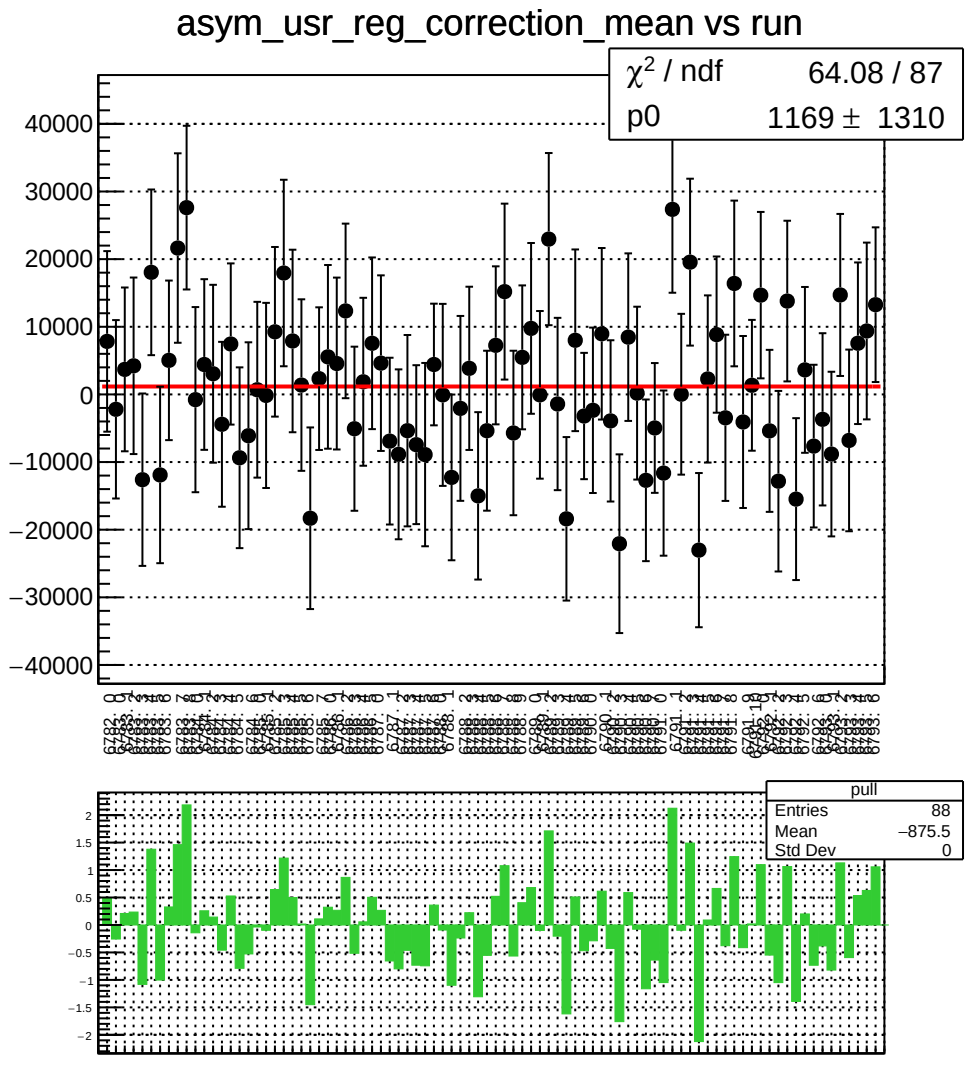

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.51 / 87
p0 0.02015 ± 0.04297
pull
Entries 88
Mean −456.5
Std Dev 0
pull1D
Entries 88
Mean −0.003386
Std Dev 0.8628

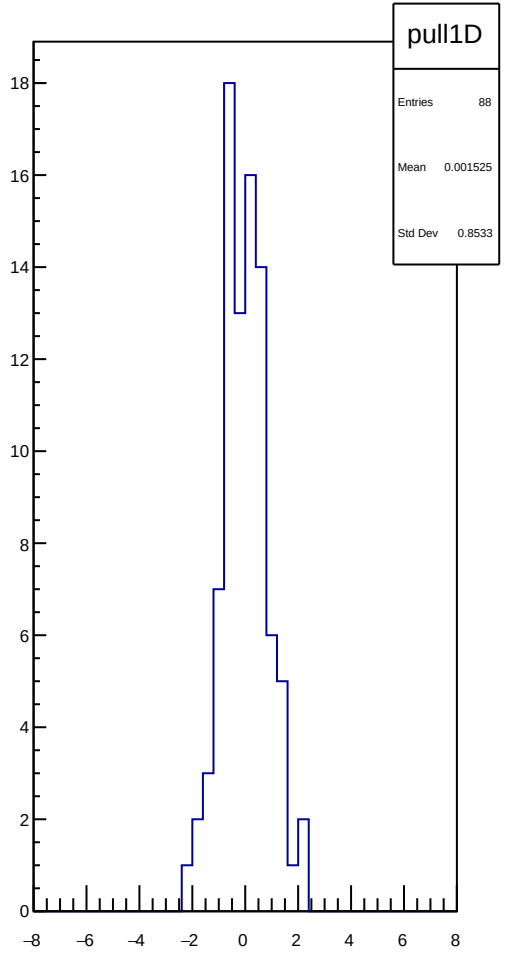

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.487e+05 / 87
p0 37.29 ± 0.03038
70
60
50
40
30
20
10

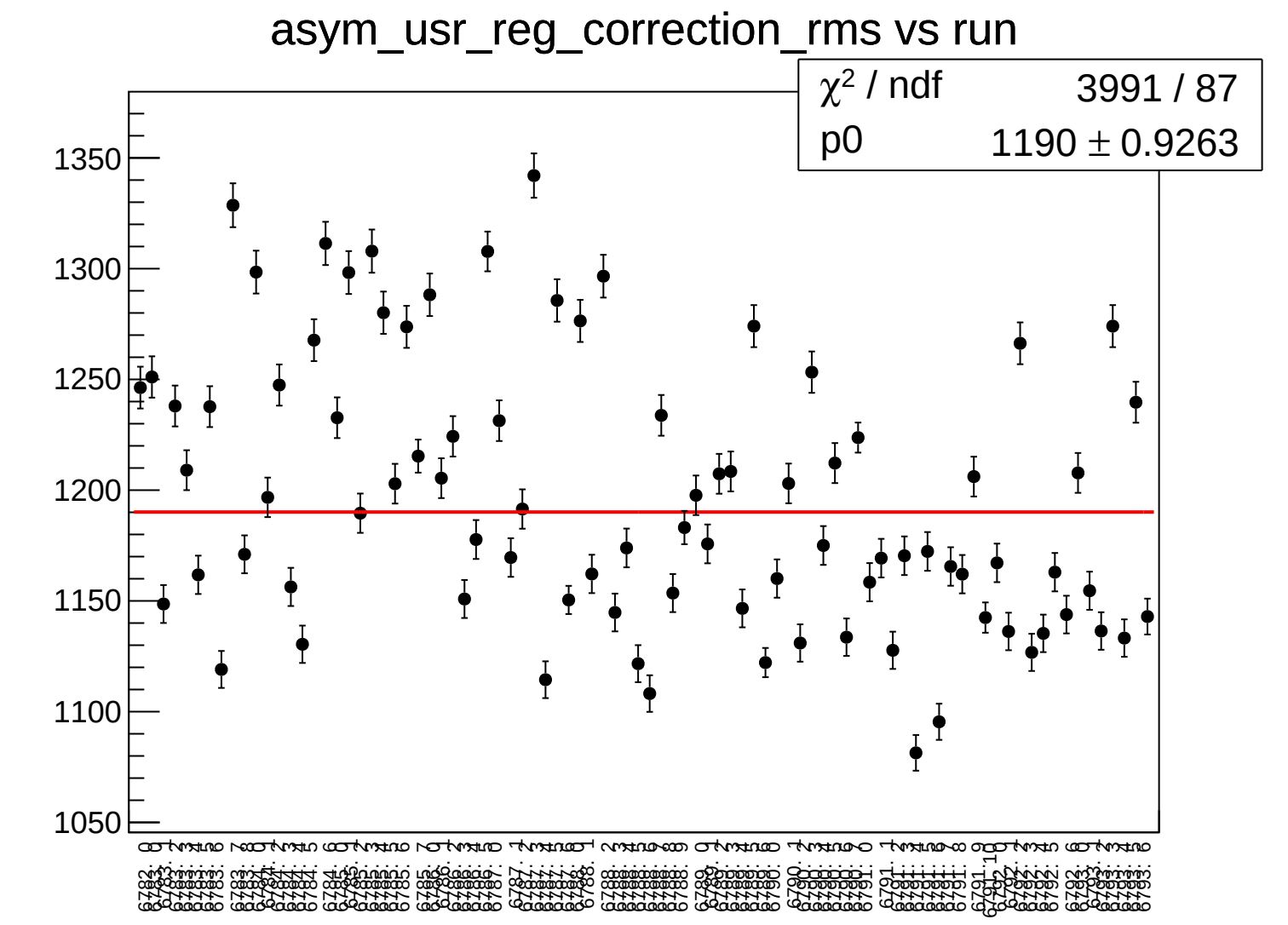

reg_asym_usr_mean vs run
χ^2 / ndf 94.91 / 87
p0 1790 ± 1195
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 459.3
Std Dev 0
2
1
0
−1
−2

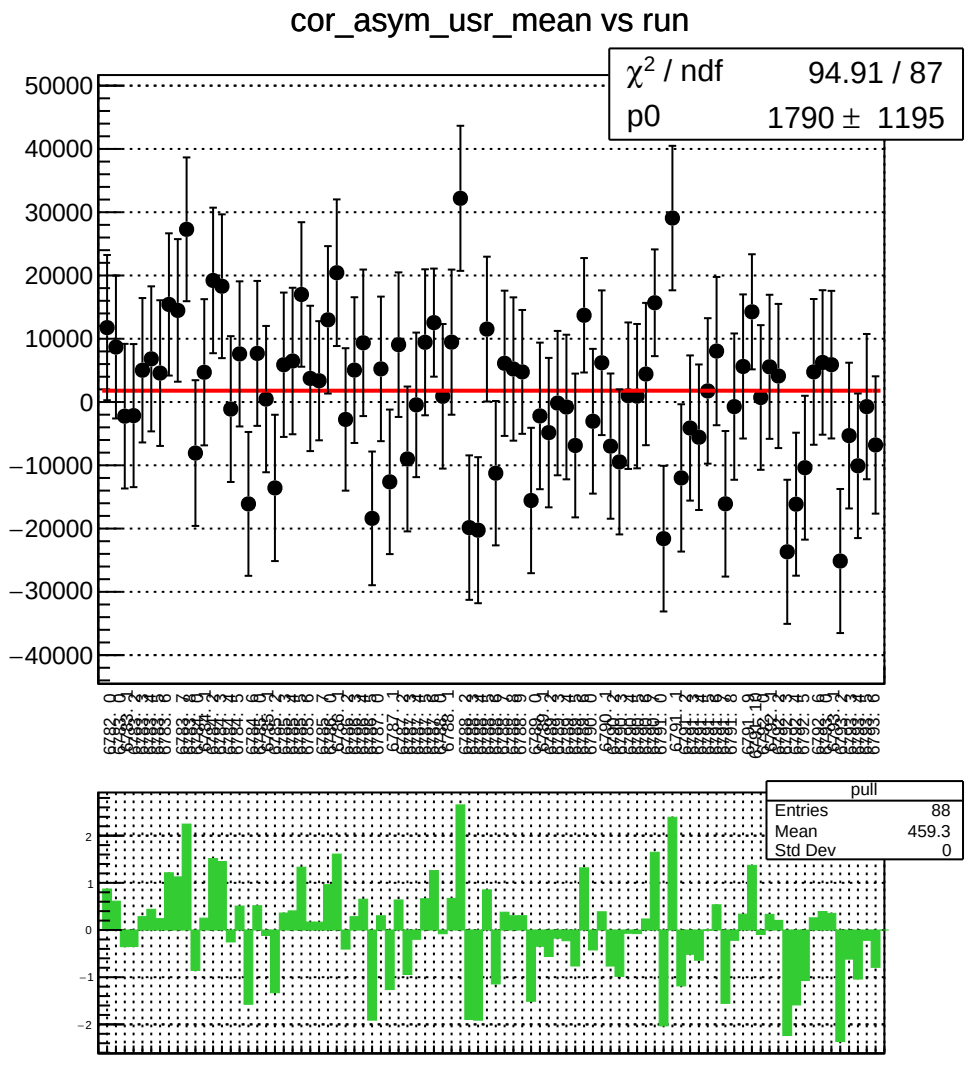

pull1D
Entries 88
Mean −0.01854
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

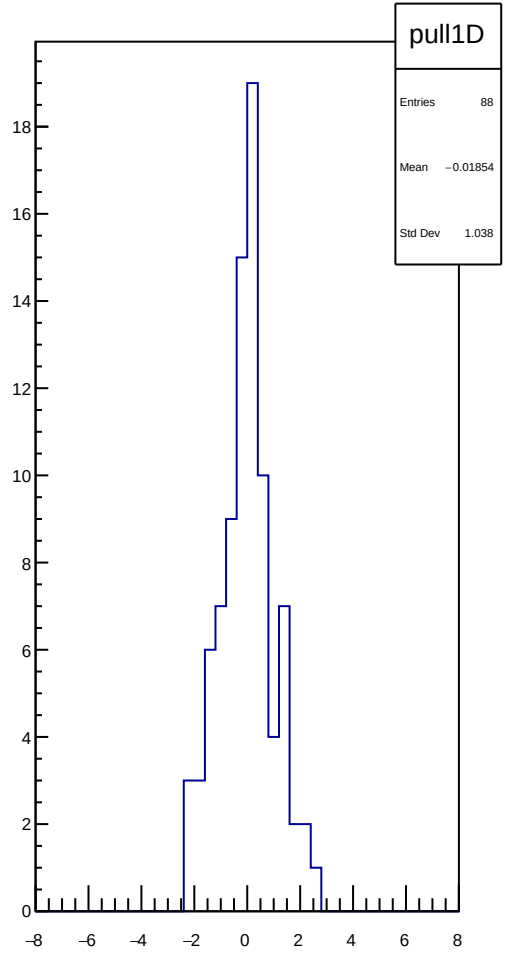

reg_asym_usr_rms vs run
χ² / ndf 126.4 / 87
p0 1087 ± 0.8448
1130
1120
1110
1100
1090
1080
1070
1060

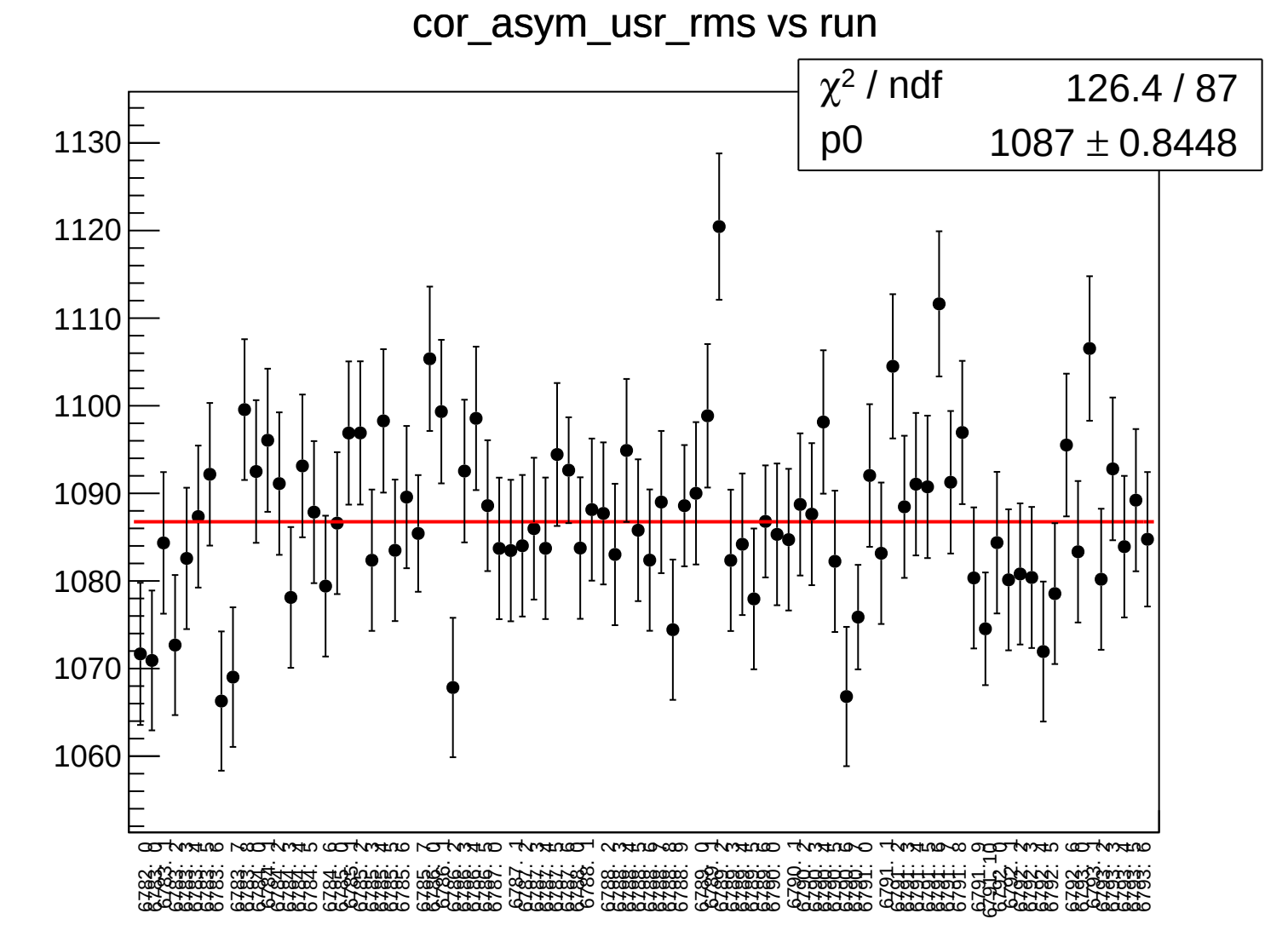

asym_usr_reg_correction_mean vs run
χ² / ndf 64.08 / 87
p0 1169 ± 1310
pull
Entries 88
Mean −875.5
Std Dev 0

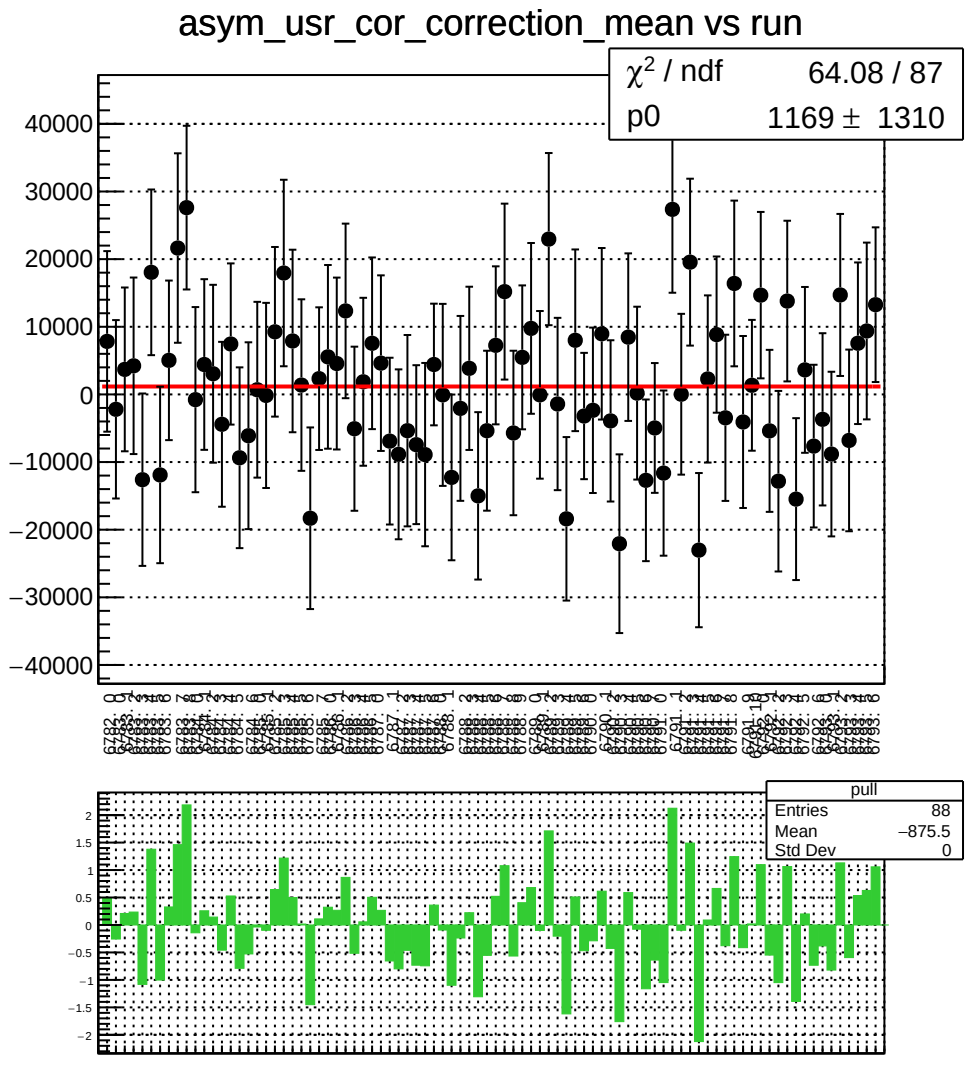

pull1D
Entries 88
Mean 0.001525
Std Dev 0.8533

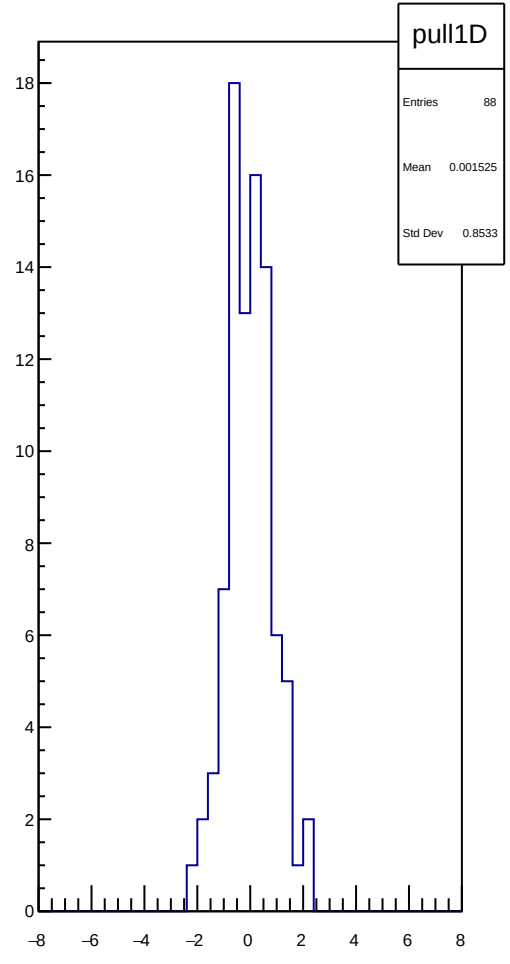

asym_usr_reg_correction_rms vs run
χ² / ndf 3991 / 87
p0 1190 ± 0.9263
1350
1300
1250
1200
1150
1100
1050

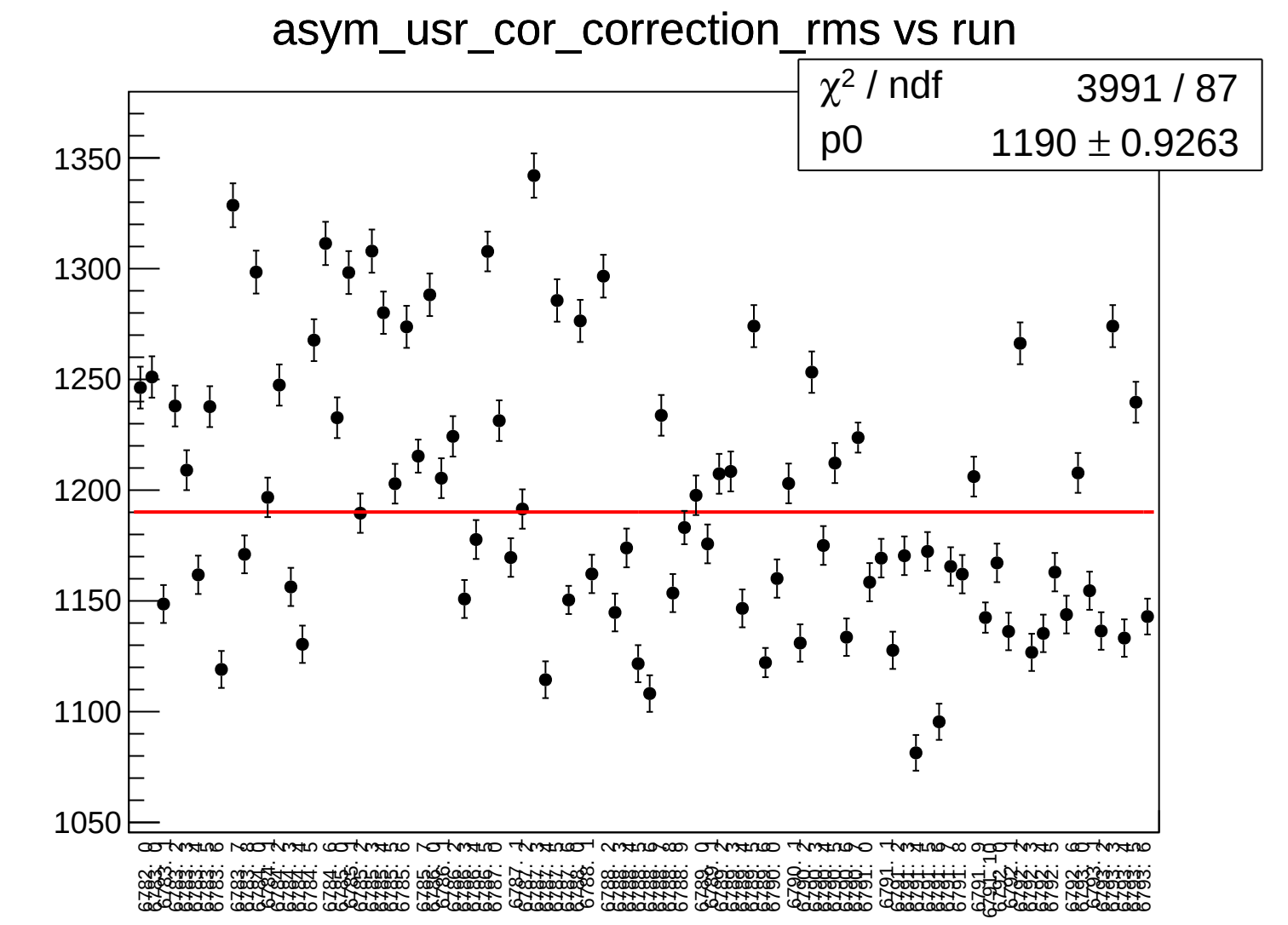

cor_asym_usr_mean vs run
χ² / ndf 94.91 / 87
p0 1790 ± 1195
pull
Entries 88
Mean 459.3
Std Dev 0

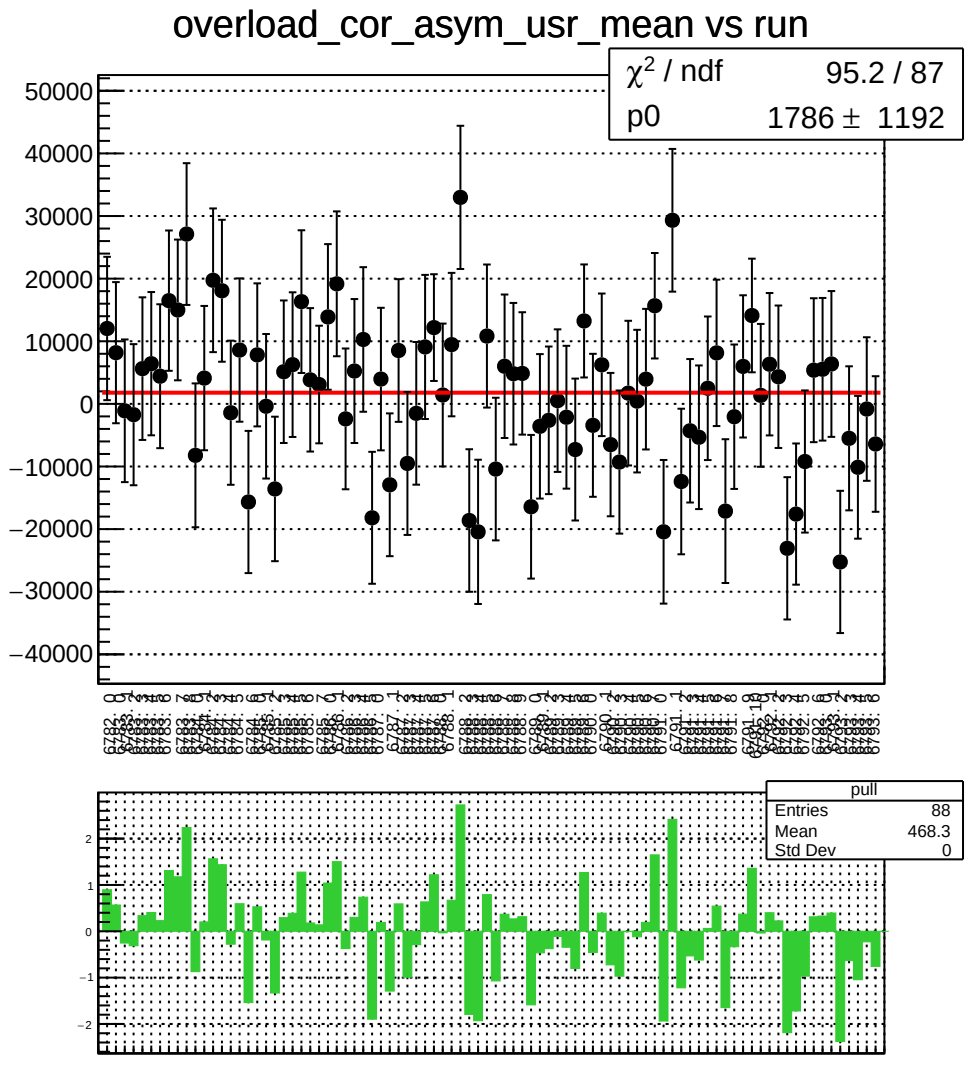

pull1D
Entries 88
Mean −0.01854
Std Dev 1.038

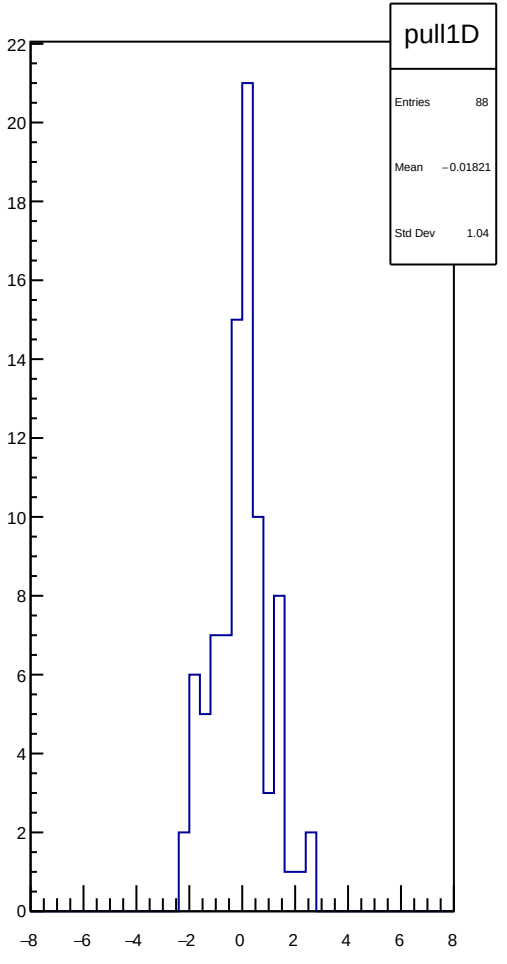

cor_asym_usr_rms vs run
χ² / ndf 126.4 / 87
p0 1087 ± 0.8448
1130
1120
1110
1100
1090
1080
1070
1060


asym_usr_cor_correction_mean vs run
χ² / ndf 64.08 / 87
p0 1169 ± 1310
pull
Entries 88
Mean −875.5
Std Dev 0

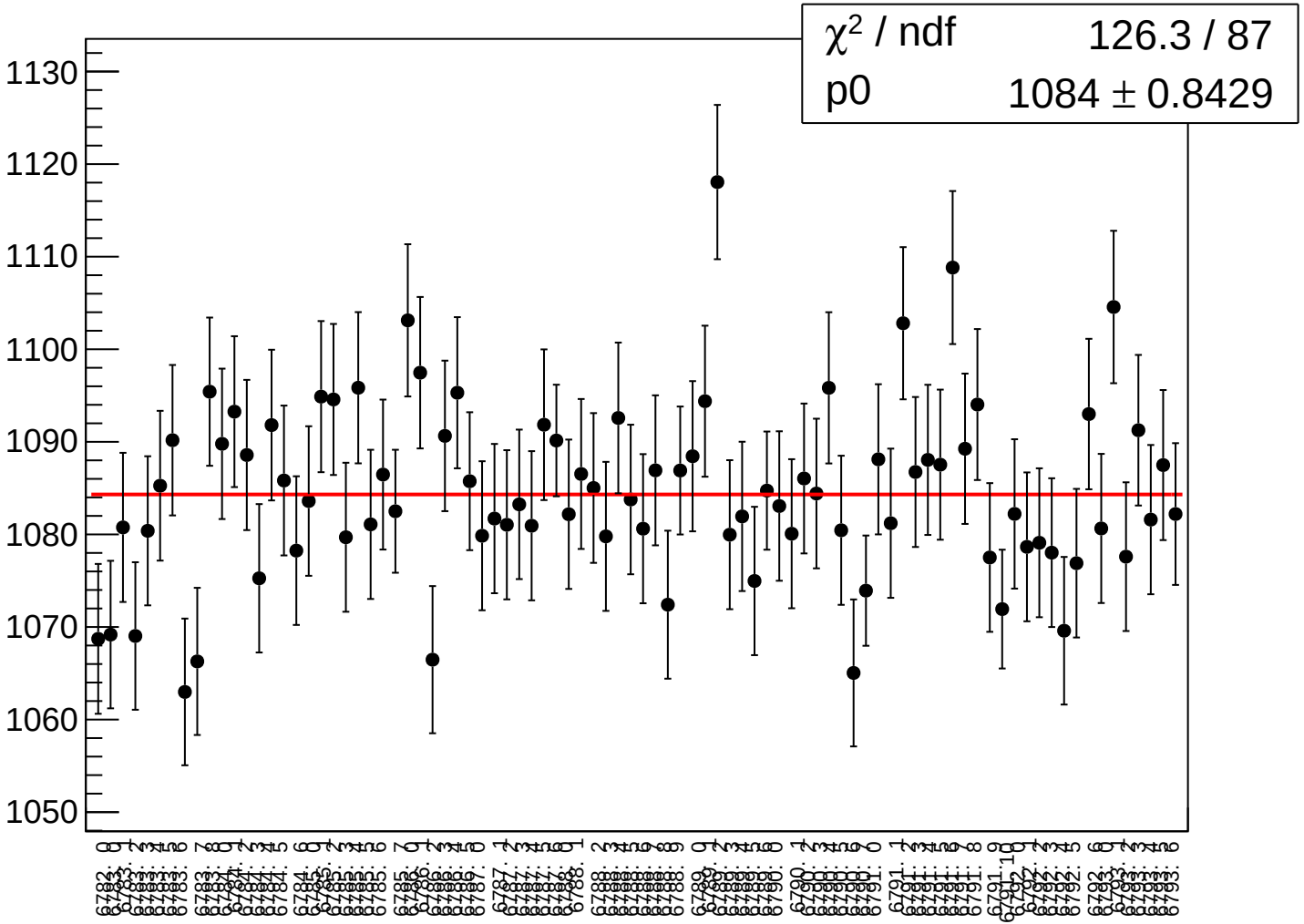

pull1D
Entries 88
Mean 0.001525
Std Dev 0.8533

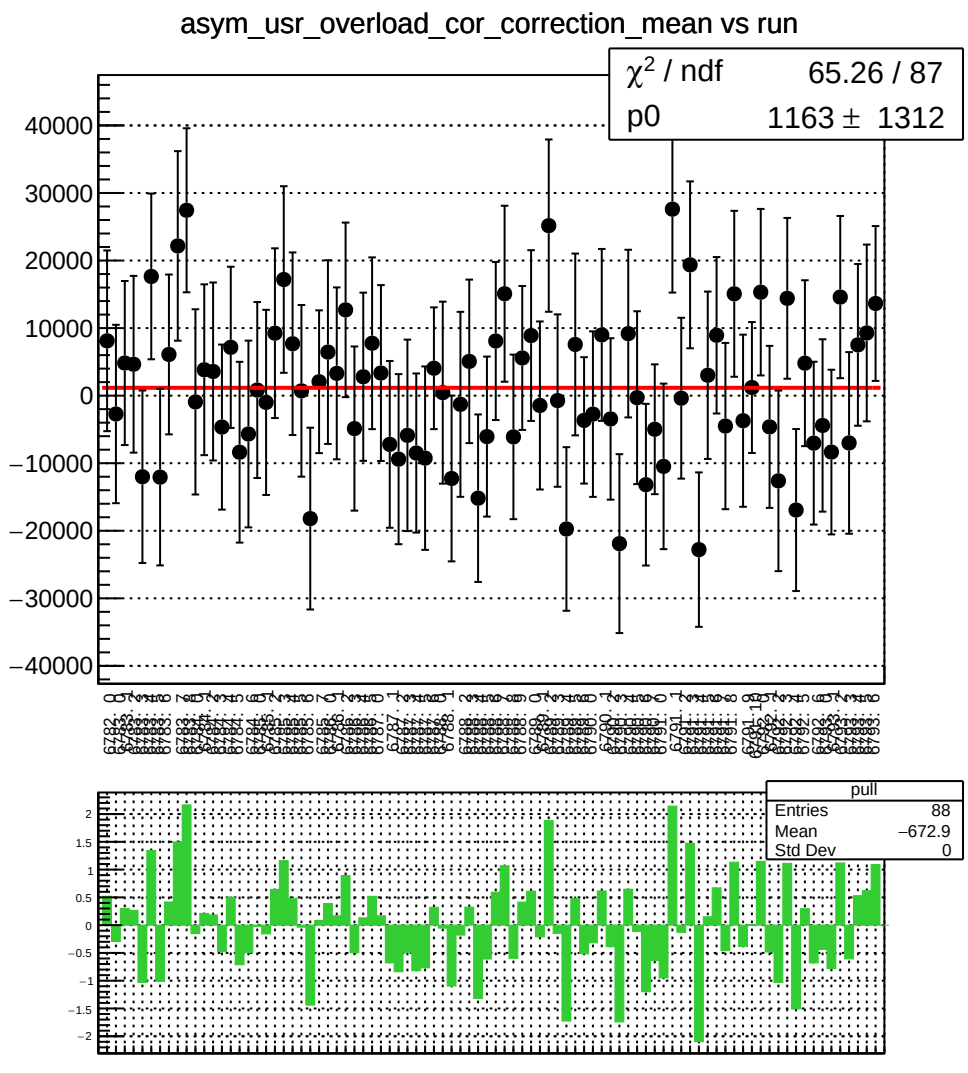

asym_usr_cor_correction_rms vs run
χ^2 / ndf 3991 / 87
p0 1190 ± 0.9263
1350
1300
1250
1200
1150
1100
1050

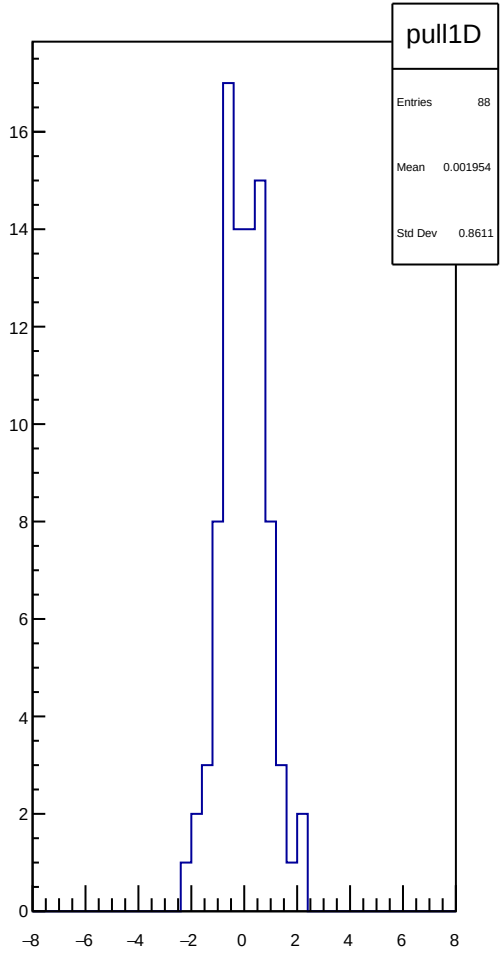

overload_cor_asym_usr_mean vs run
χ² / ndf 95.2 / 87
p0 1786 ± 1192
pull
Entries 88
Mean 468.3
Std Dev 0

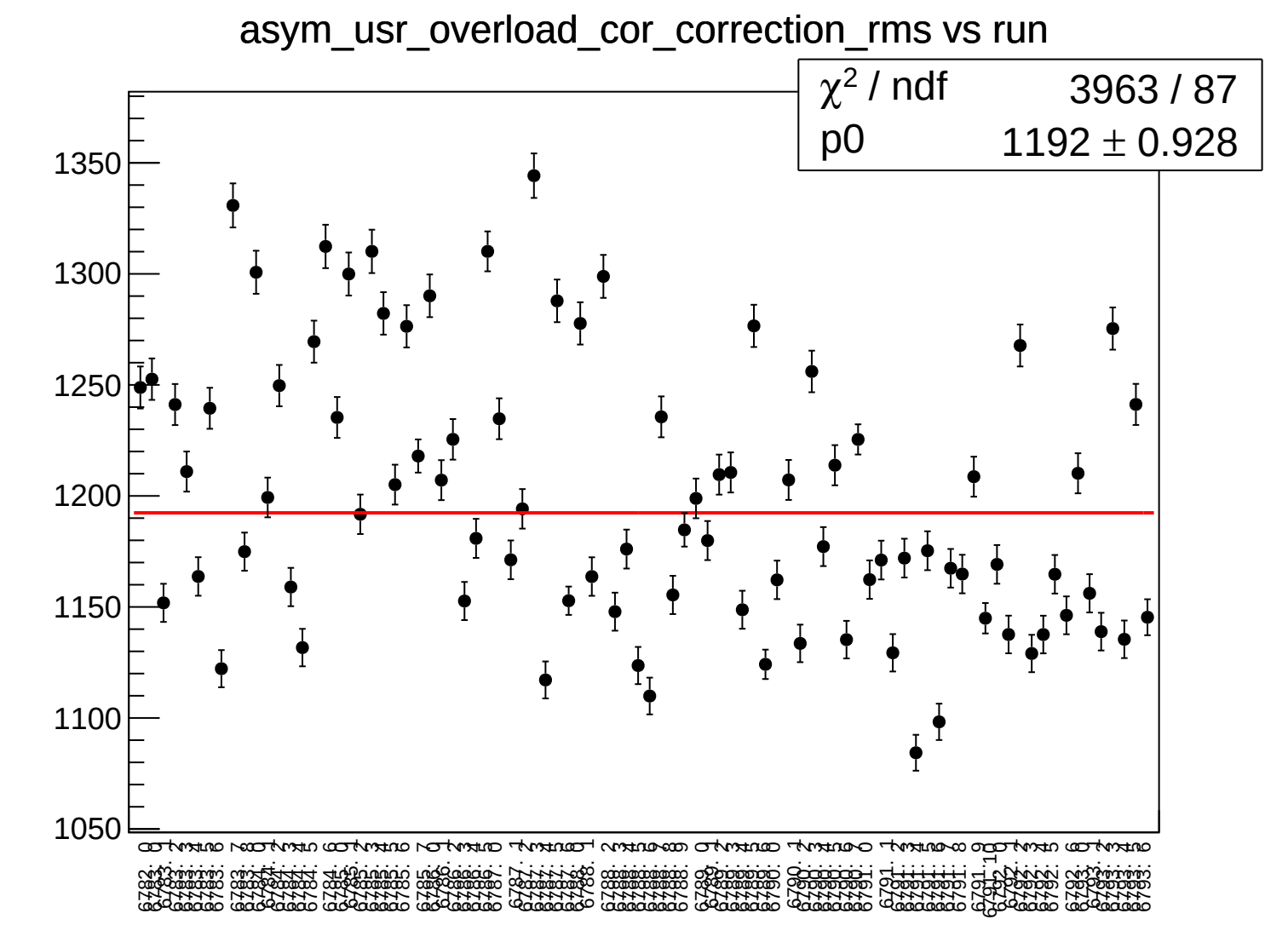

pull1D
Entries 88
Mean −0.01821
Std Dev 1.04

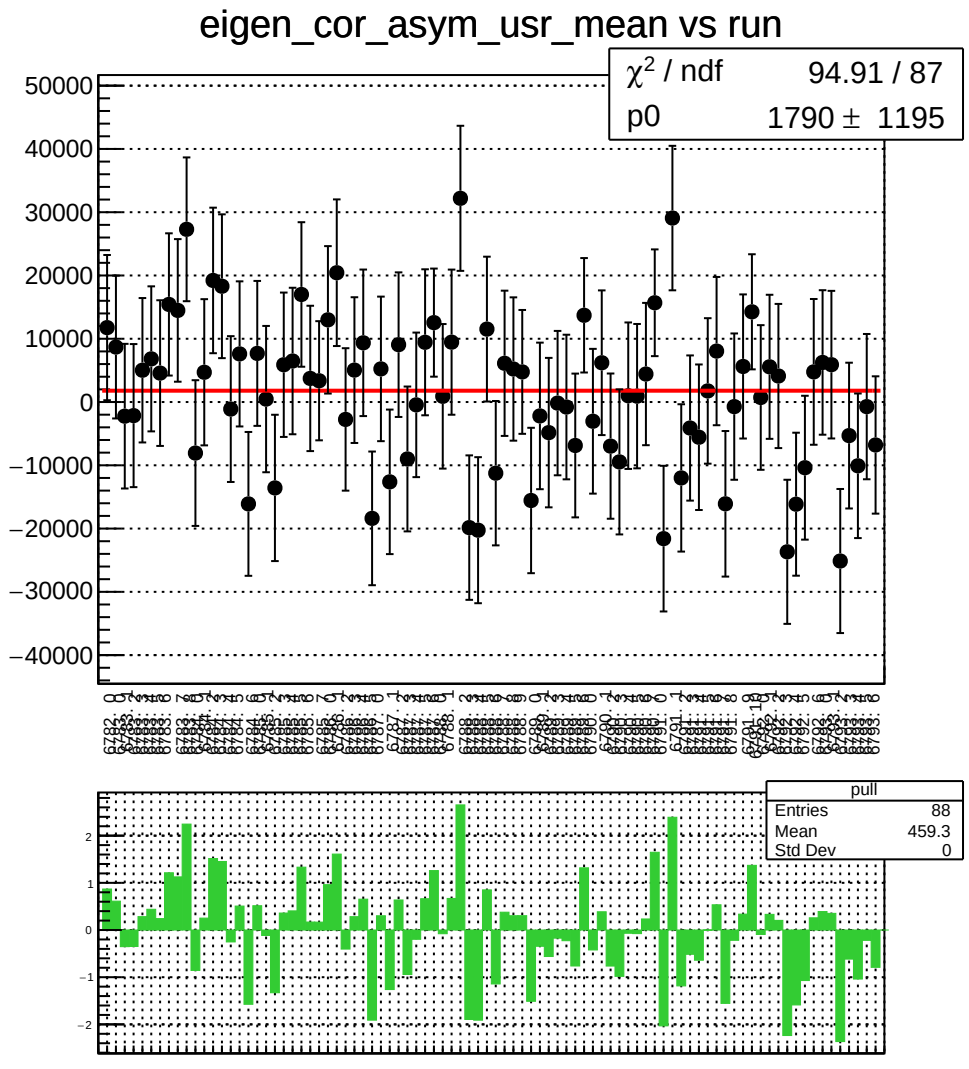
overload_cor_asym_usr_rms vs run

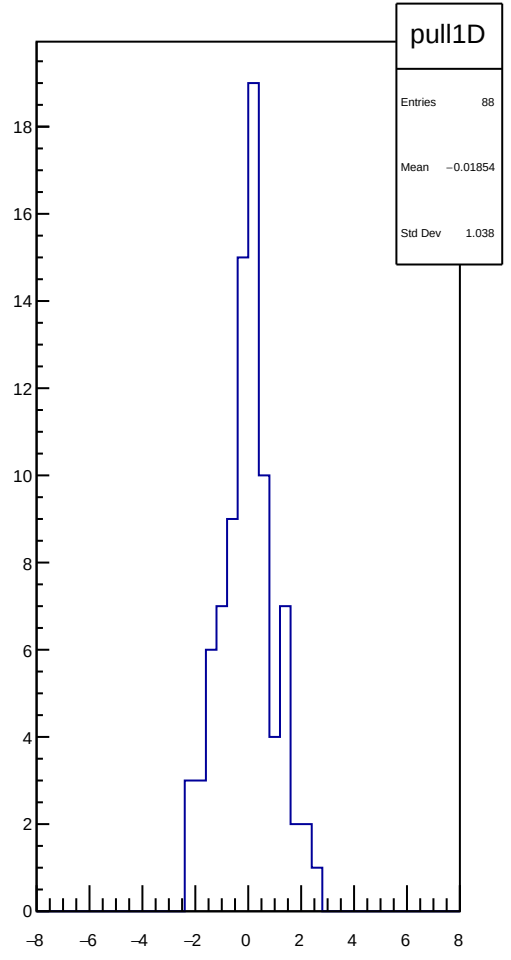


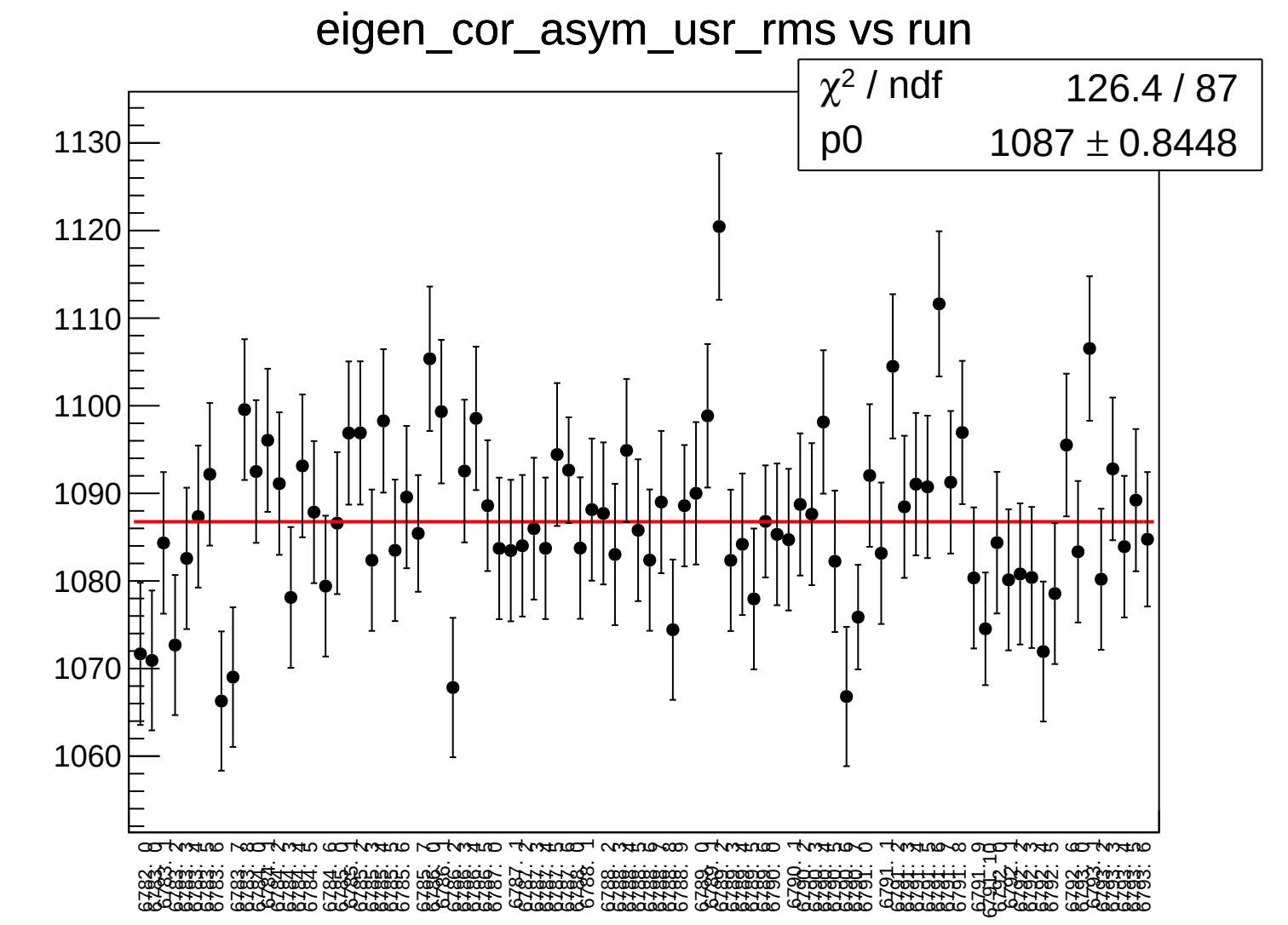

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 65.26 / 87
p0 1163 ± 1312
pull
Entries 88
Mean −672.9
Std Dev 0

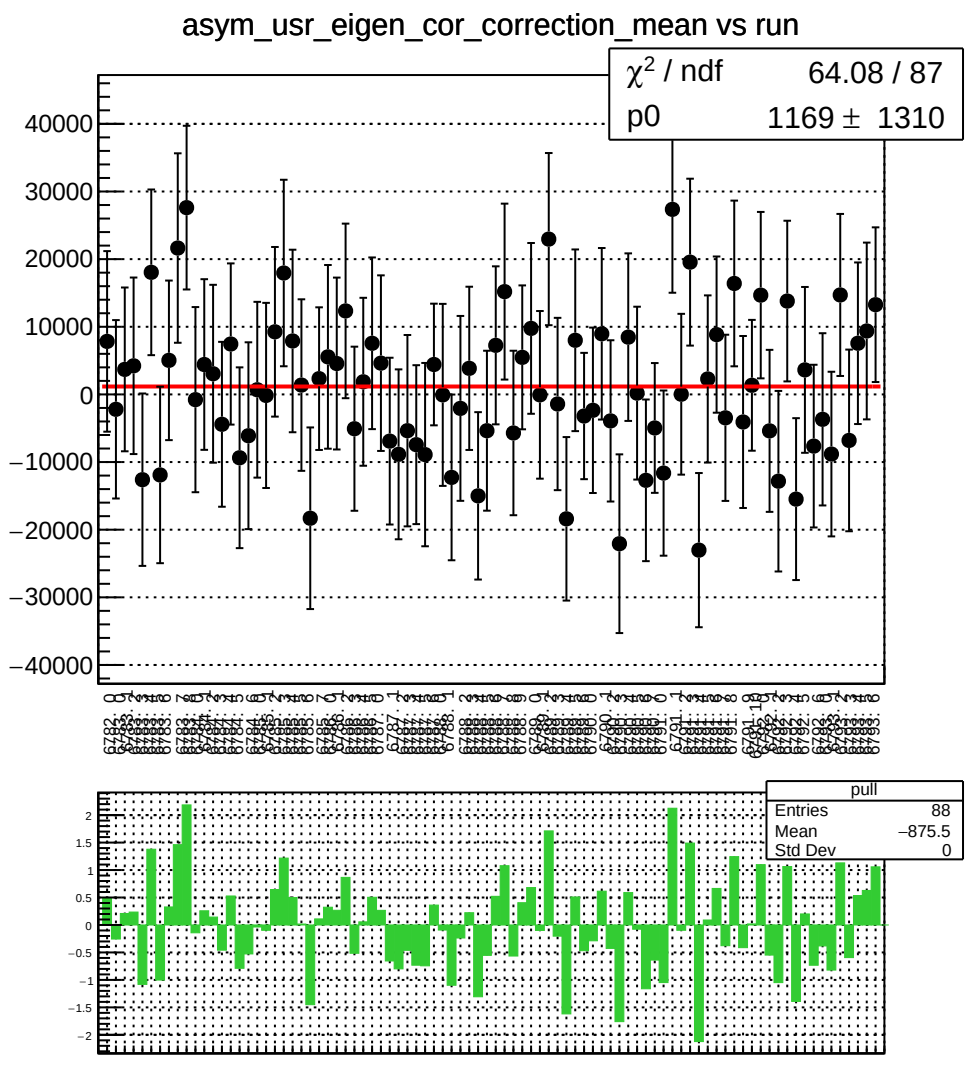

pull1D
Entries 88
Mean 0.001954
Std Dev 0.8611

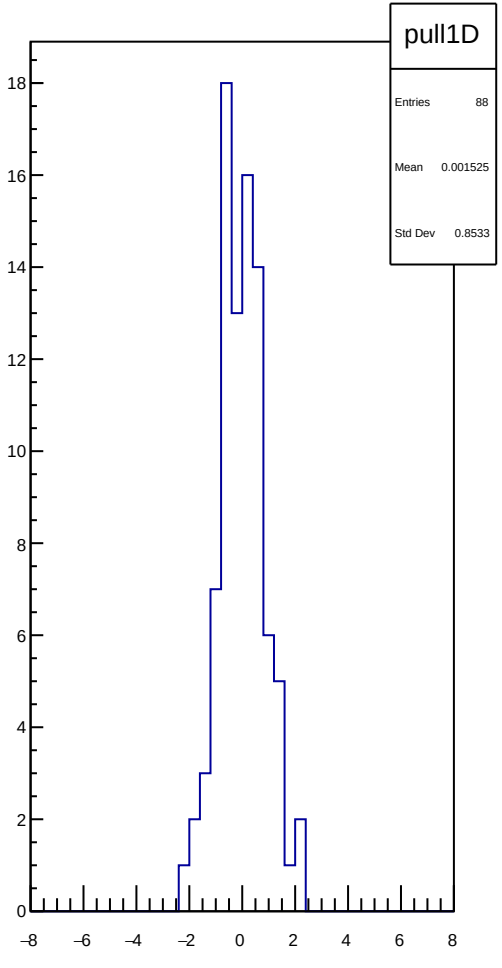

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 3963 / 87
p0 1192 ± 0.928
1350
1300
1250
1200
1150
1100
1050

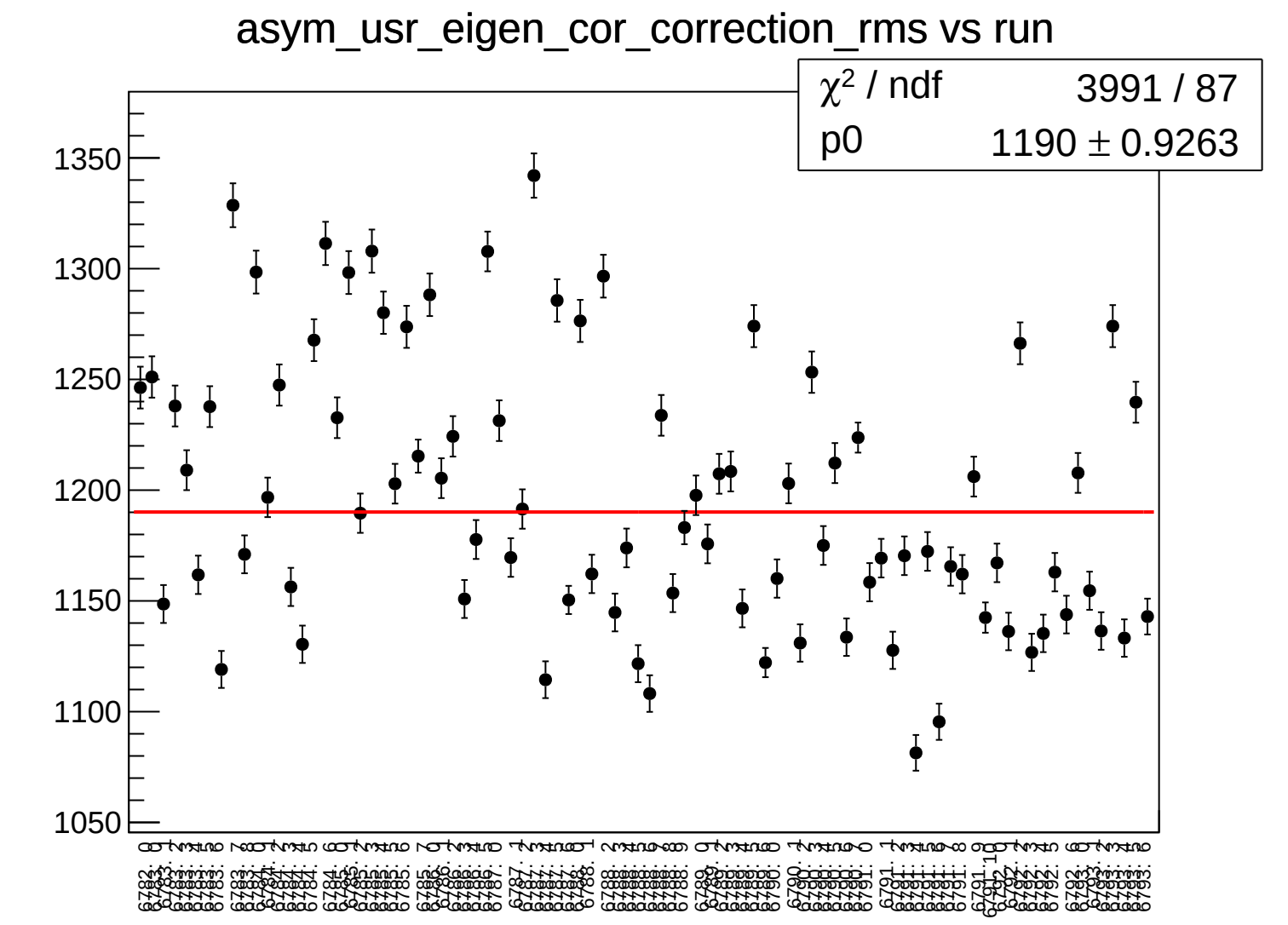

eigen_cor_asym_usr_mean vs run
χ² / ndf 94.91 / 87
p0 1790 ± 1195
pull
Entries 88
Mean 459.3
Std Dev 0

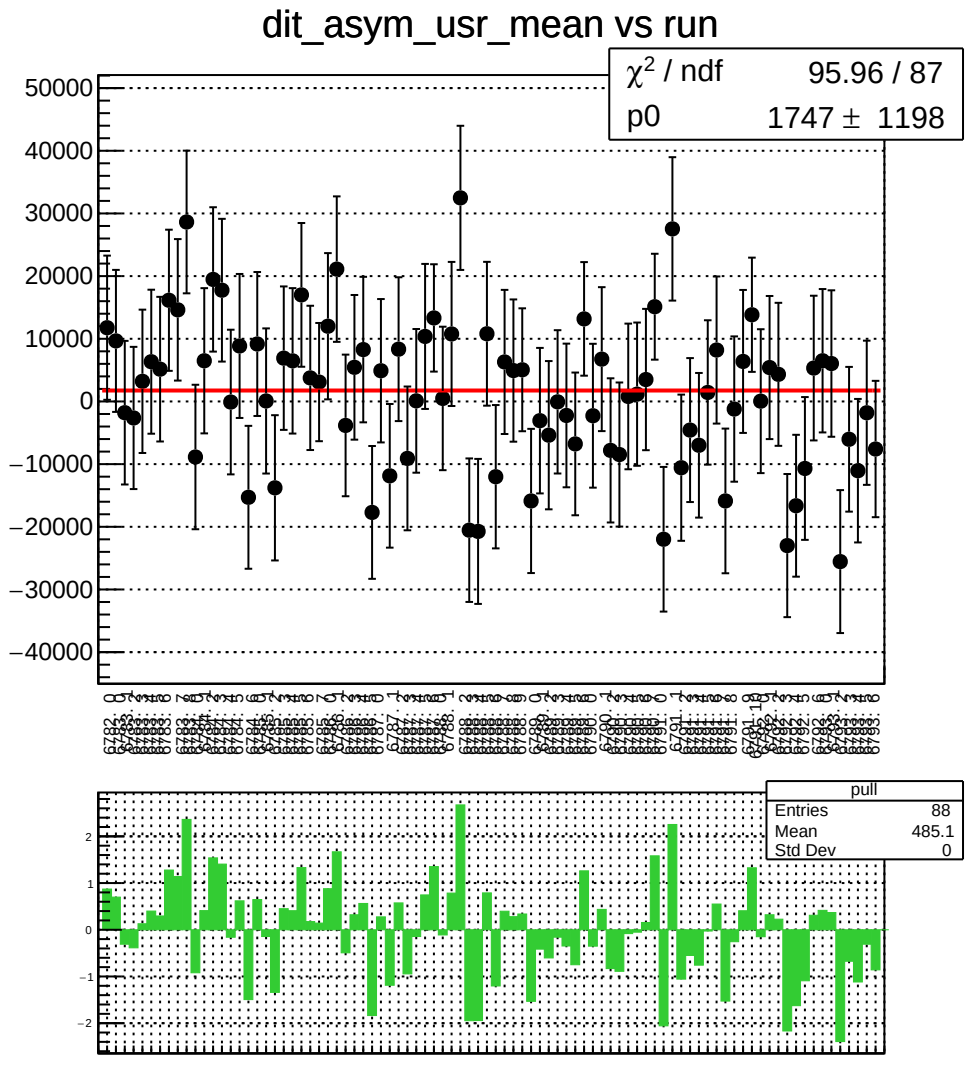

pull1D
Entries 88
Mean −0.01854
Std Dev 1.038

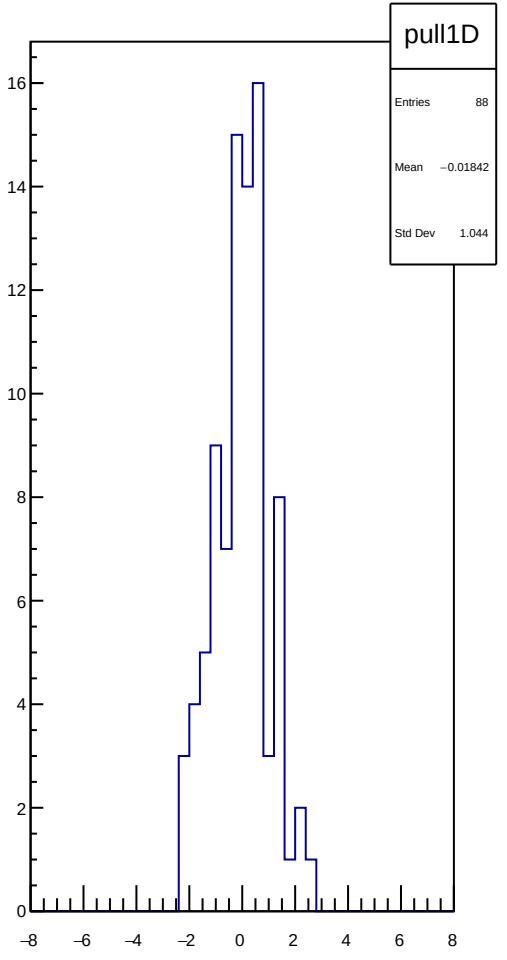

eigen_cor_asym_usr_rms vs run
χ² / ndf 126.4 / 87
p0 1087 ± 0.8448
1130
1120
1110
1100
1090
1080
1070
1060

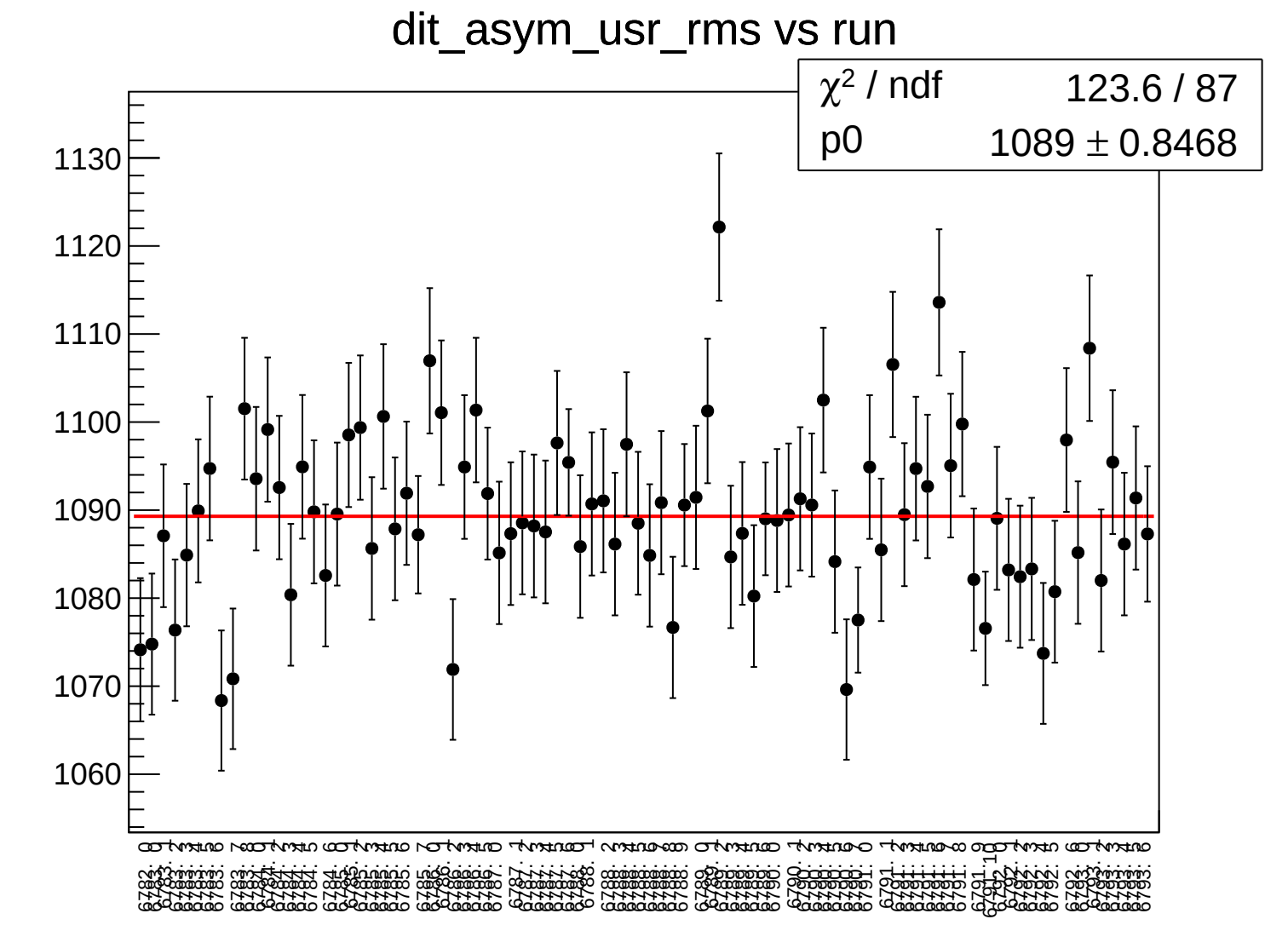

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 64.08 / 87
p0 1169 ± 1310
pull
Entries 88
Mean −875.5
Std Dev 0

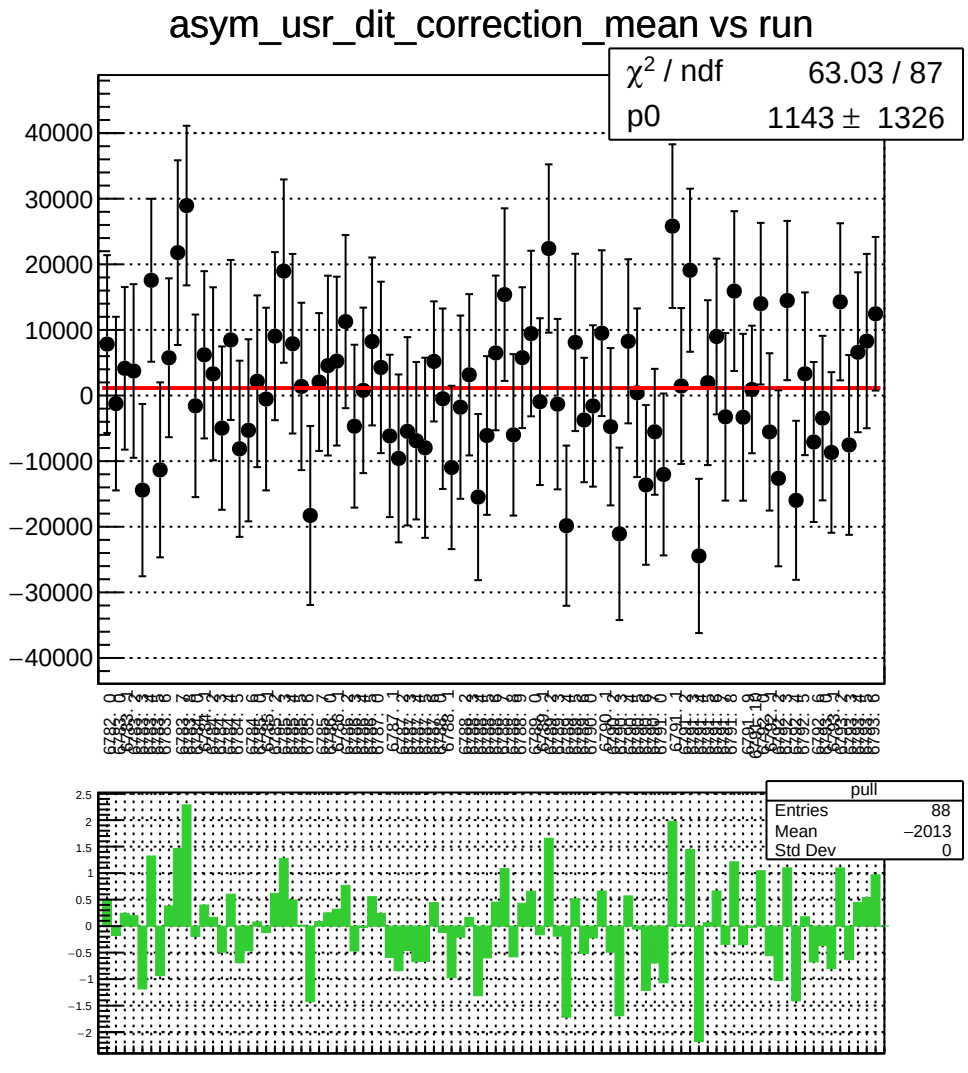

pull1D
Entries 88
Mean 0.001525
Std Dev 0.8533

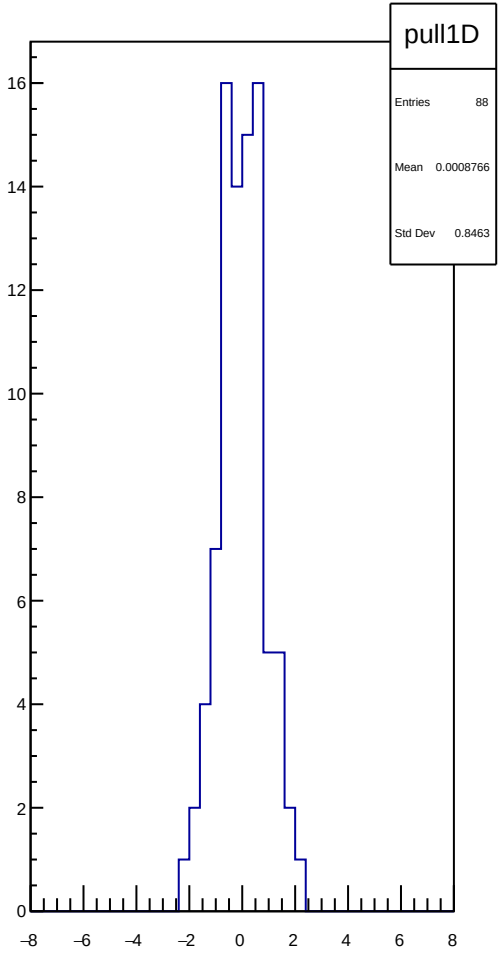

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 3991 / 87
p0 1190 ± 0.9263
1350
1300
1250
1200
1150
1100
1050

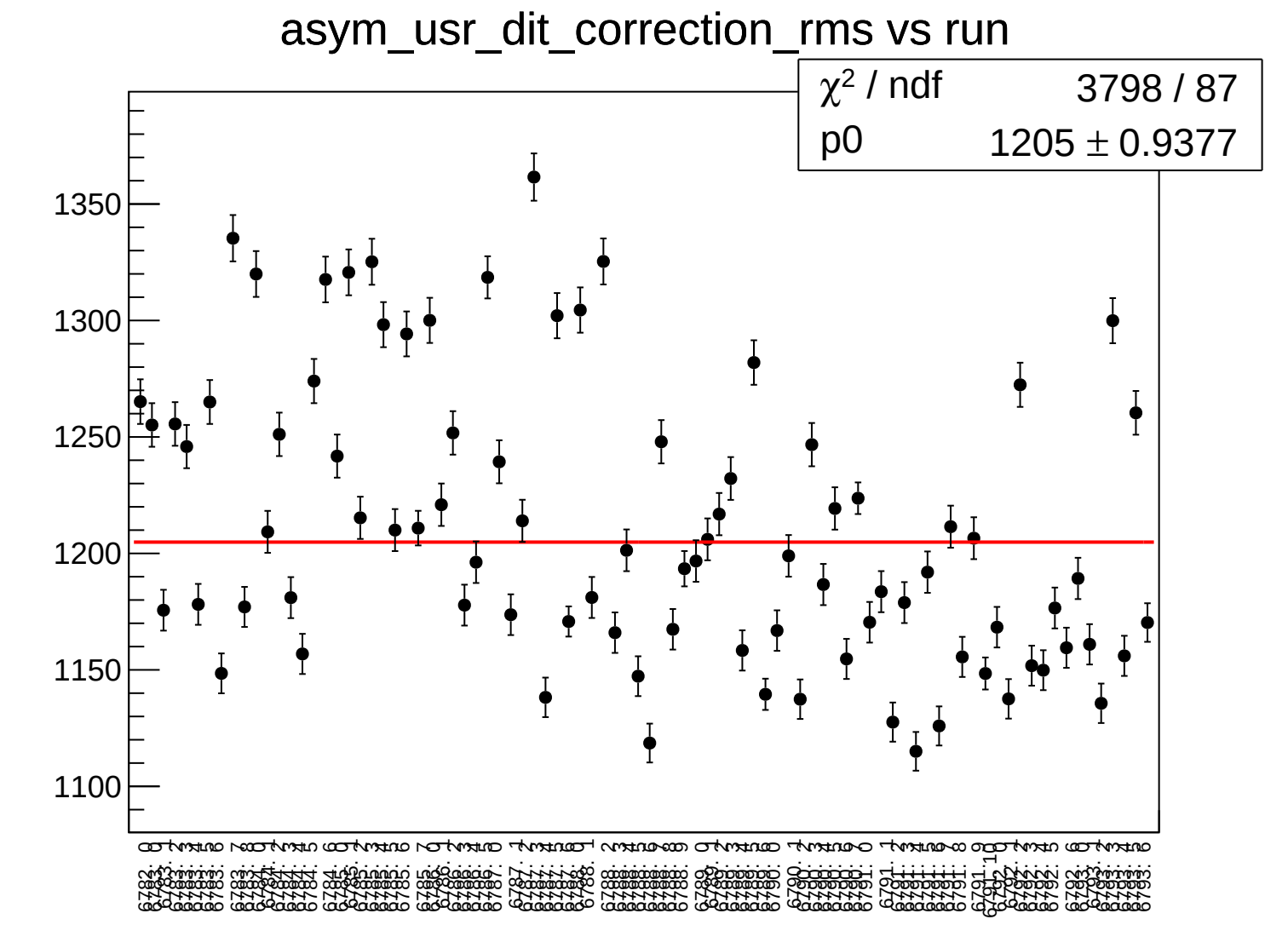

dit_asym_usr_mean vs run
χ² / ndf 95.96 / 87
p0 1747 ± 1198
pull
Entries 88
Mean 485.1
Std Dev 0

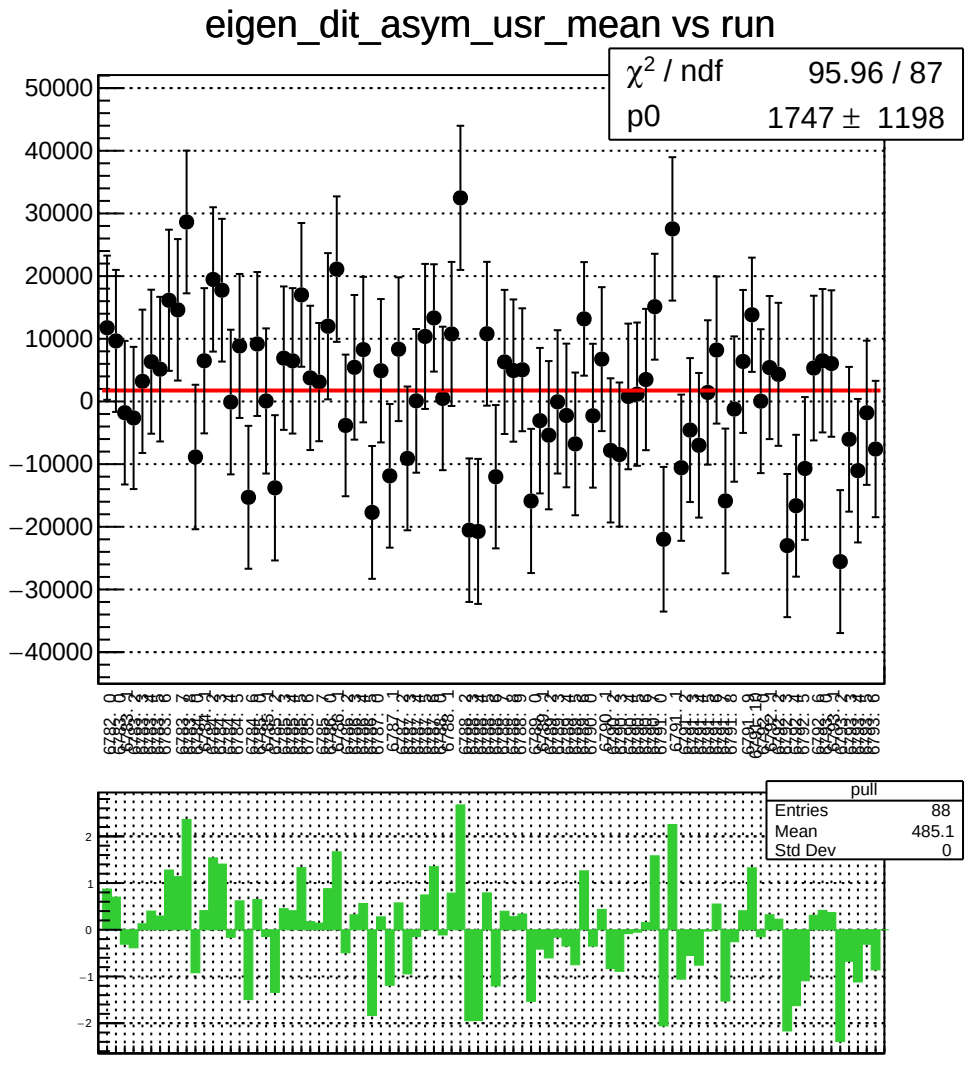

pull1D
Entries 88
Mean −0.01842
Std Dev 1.044

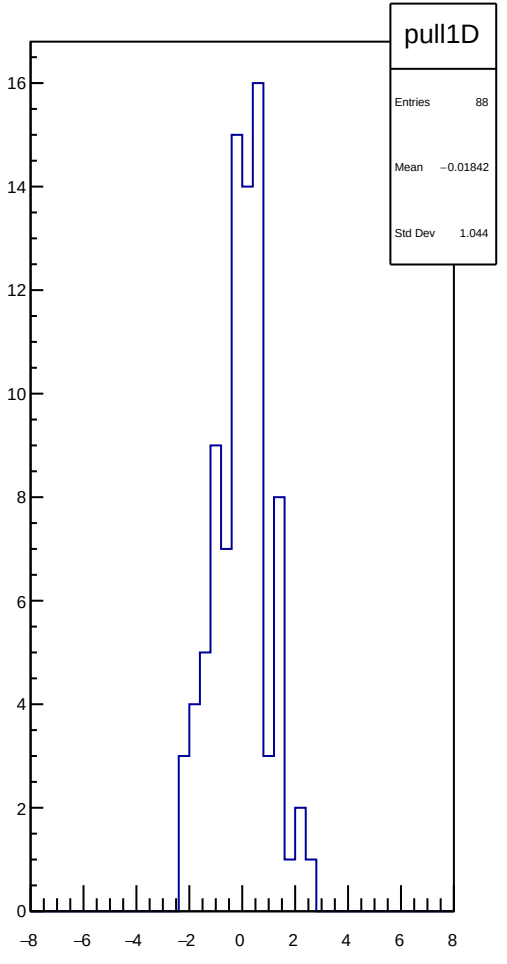

dit_asym_usr_rms vs run
χ^2 / ndf 123.6 / 87
p0 1089 ± 0.8468
1130
1120
1110
1100
1090
1080
1070
1060

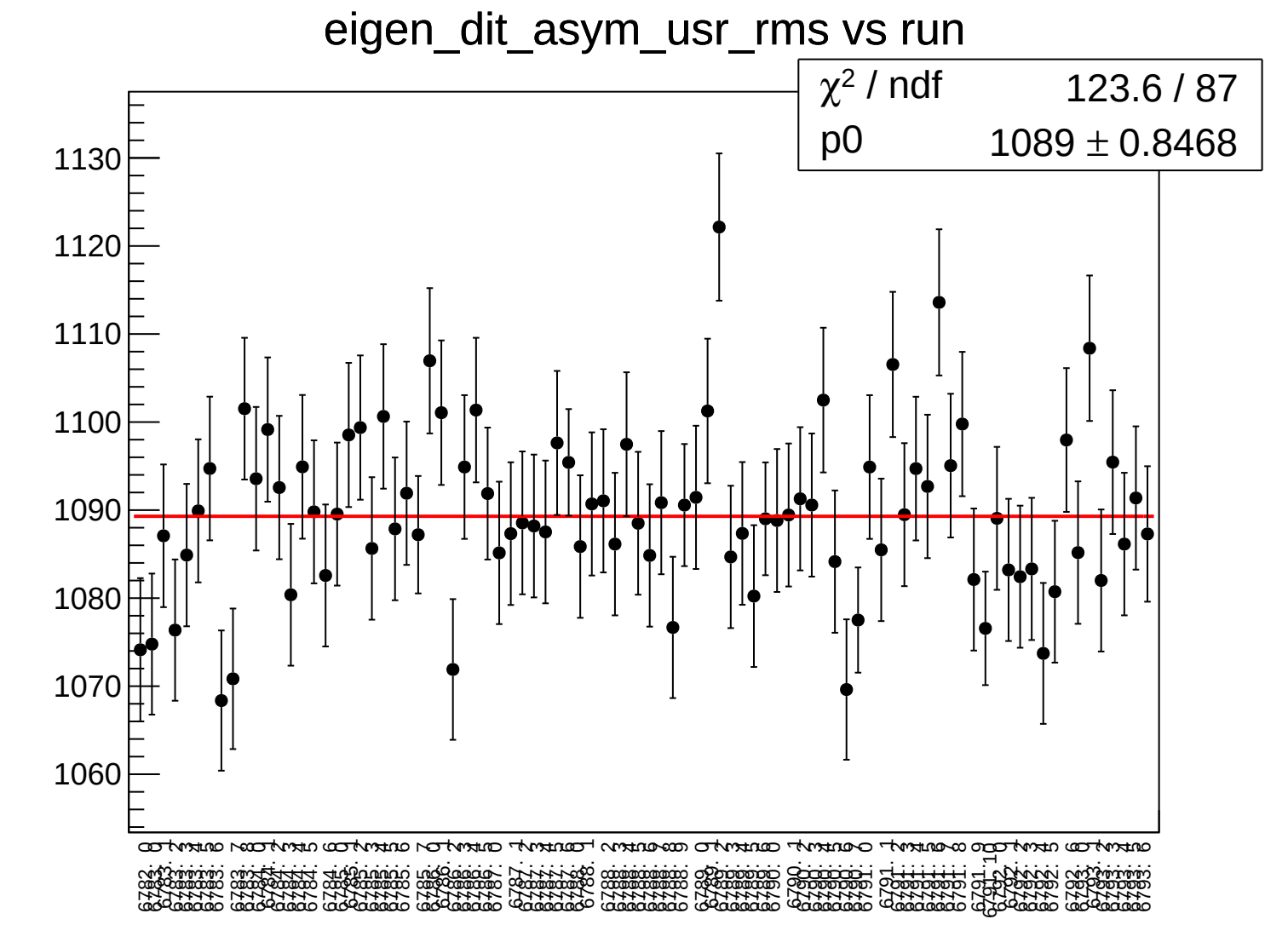

asym_usr_dit_correction_mean vs run
χ² / ndf 63.03 / 87
p0 1143 ± 1326
pull
Entries 88
Mean −2013
Std Dev 0

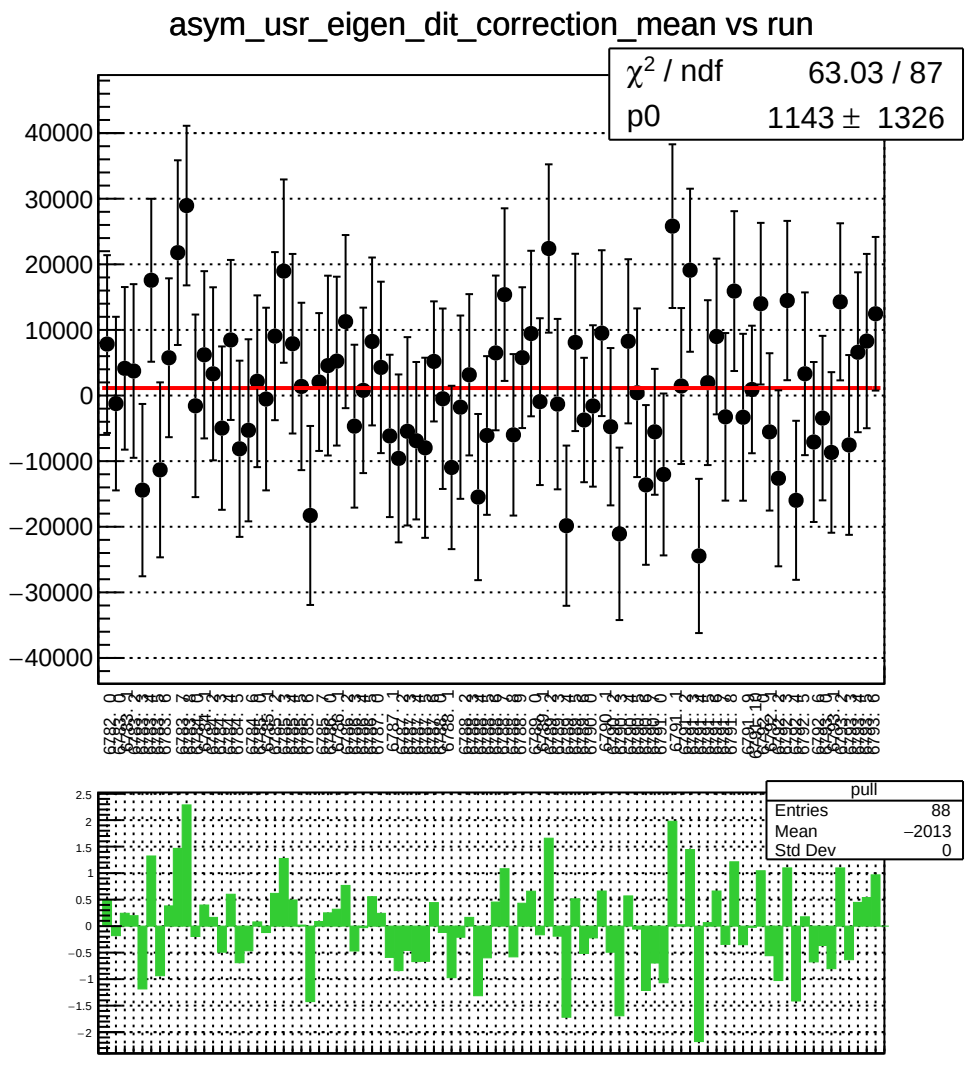

pull1D
Entries 88
Mean 0.0008766
Std Dev 0.8463

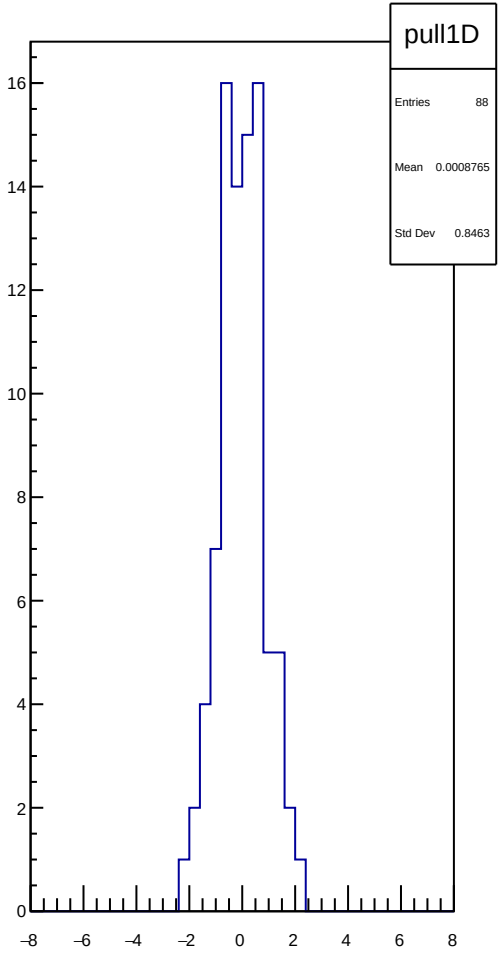

asym_usr_dit_correction_rms vs run
χ² / ndf 3798 / 87
p0 1205 ± 0.9377
1350
1300
1250
1200
1150
1100

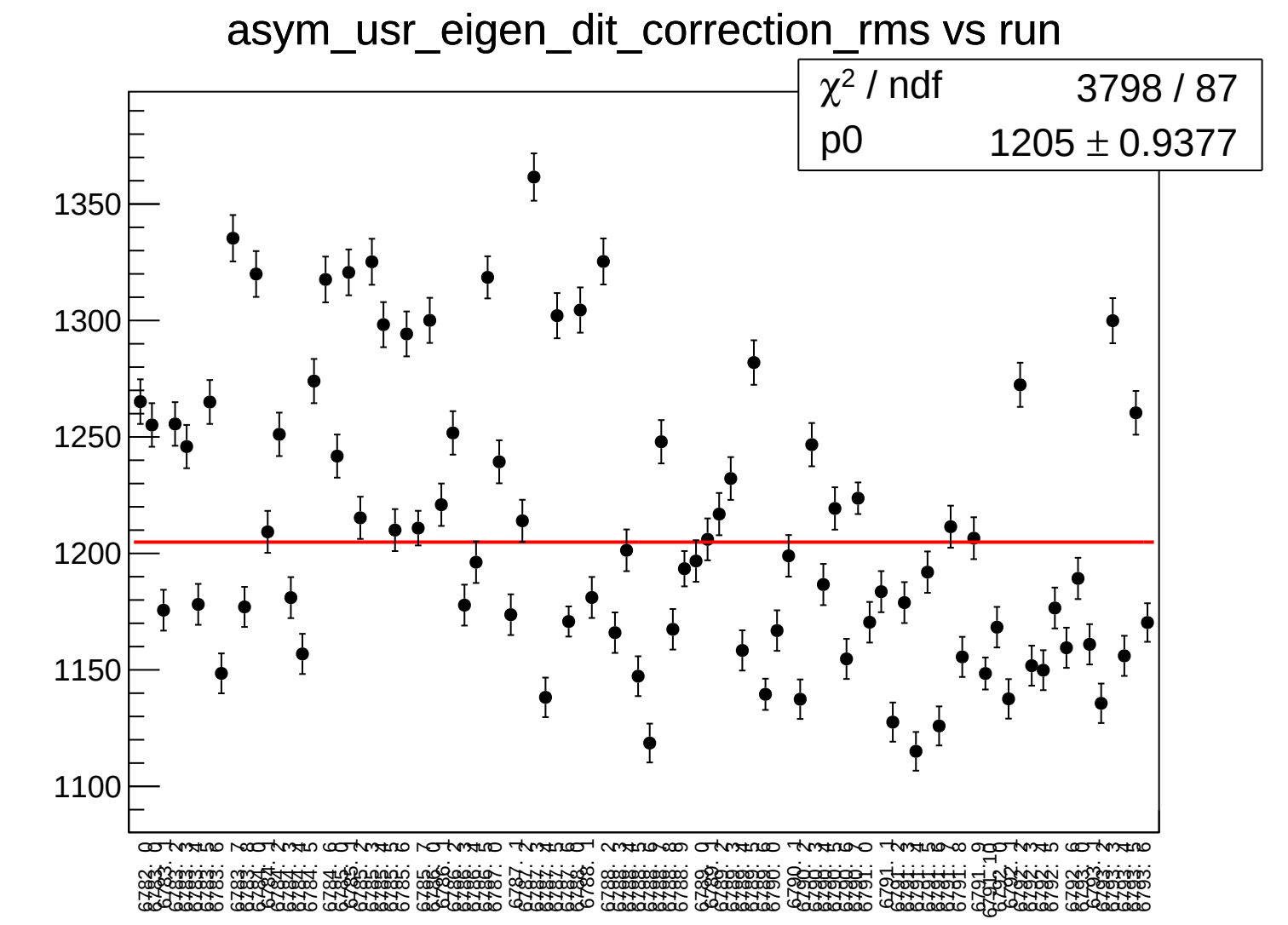

eigen_dit_asym_usr_mean vs run
χ² / ndf 95.96 / 87
p0 1747 ± 1198
pull
Entries 88
Mean 485.1
Std Dev 0

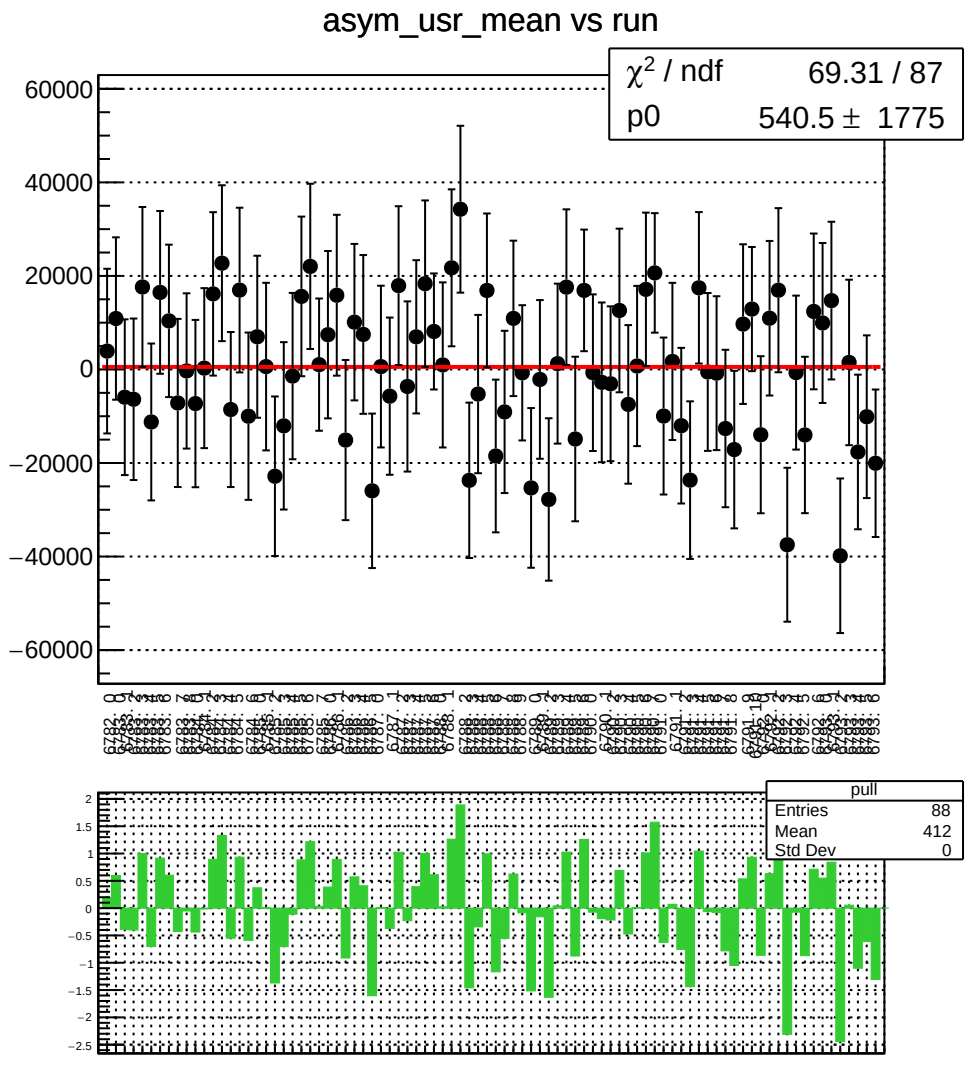

pull1D
Entries 88
Mean −0.01842
Std Dev 1.044

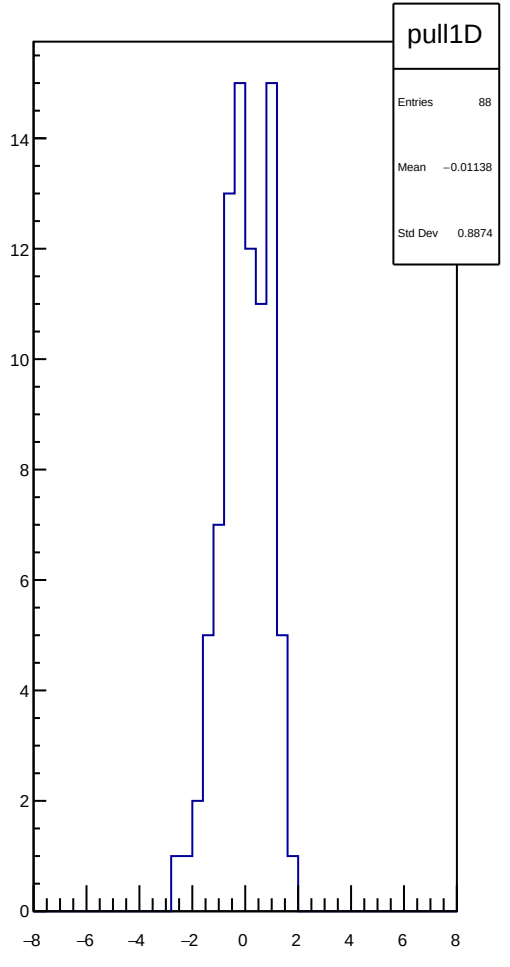

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 123.6 / 87
p0 1089 ± 0.8468
1130
1120
1110
1100
1090
1080
1070
1060

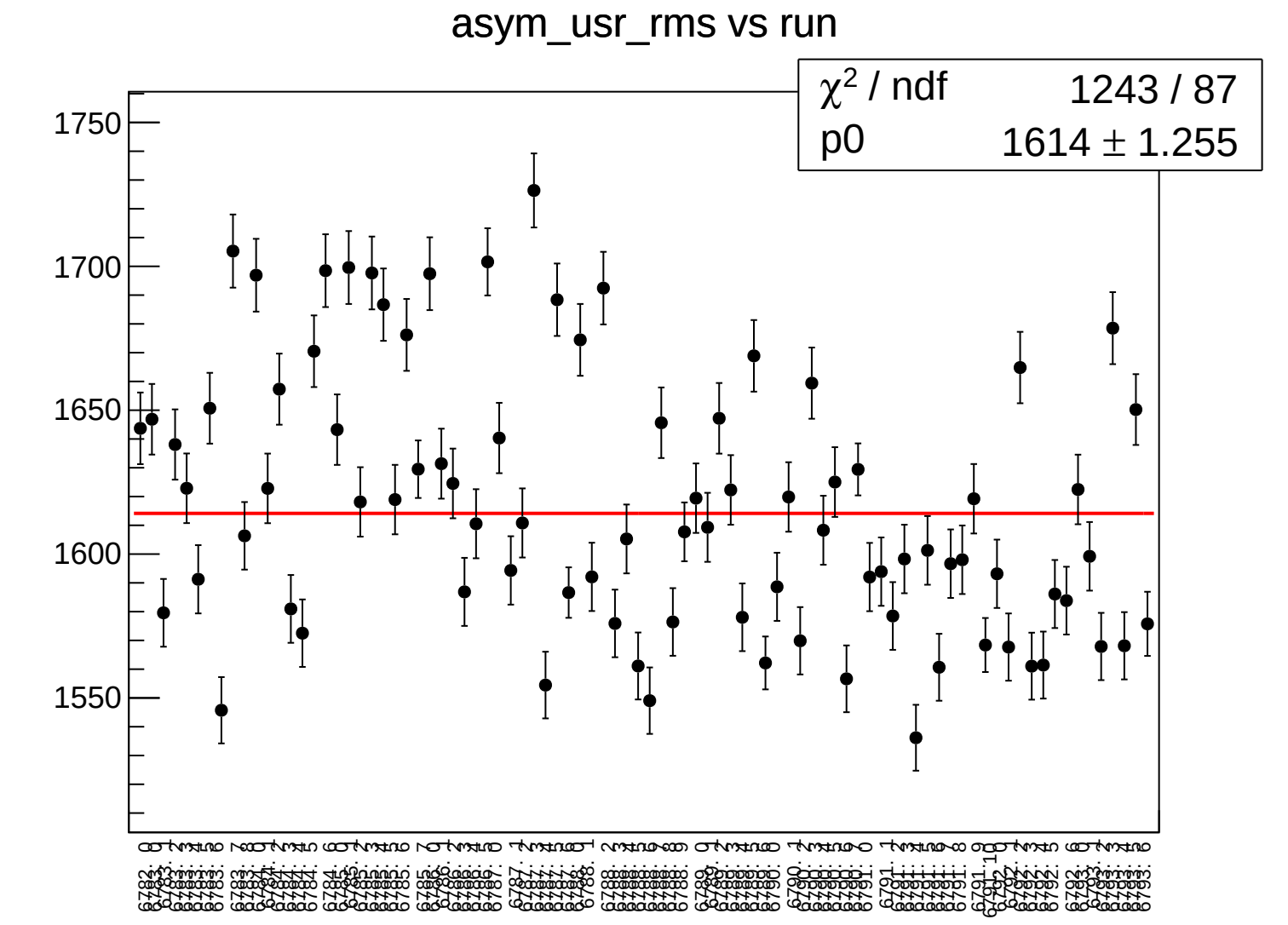

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 63.03 / 87
p0 1143 ± 1326
pull
Entries 88
Mean −2013
Std Dev 0

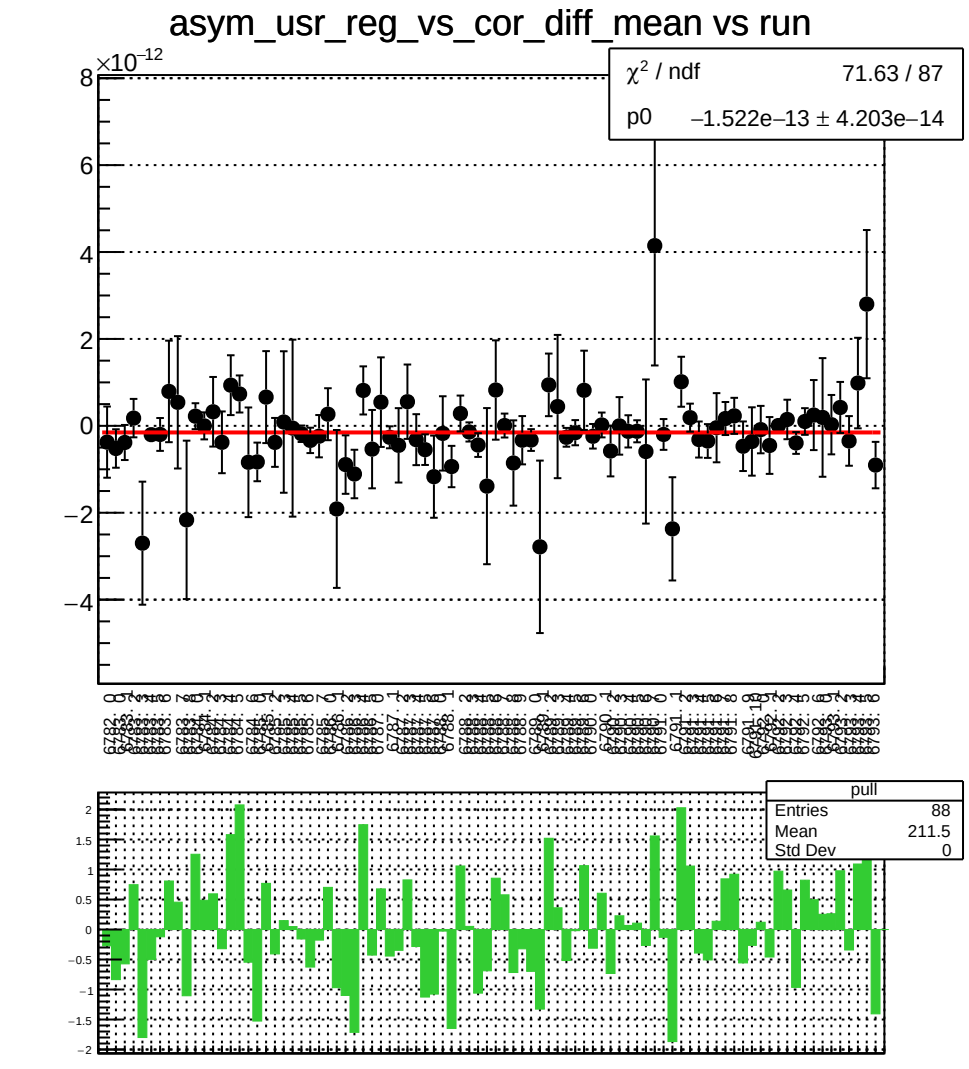

pull1D
Entries 88
Mean 0.0008765
Std Dev 0.8463

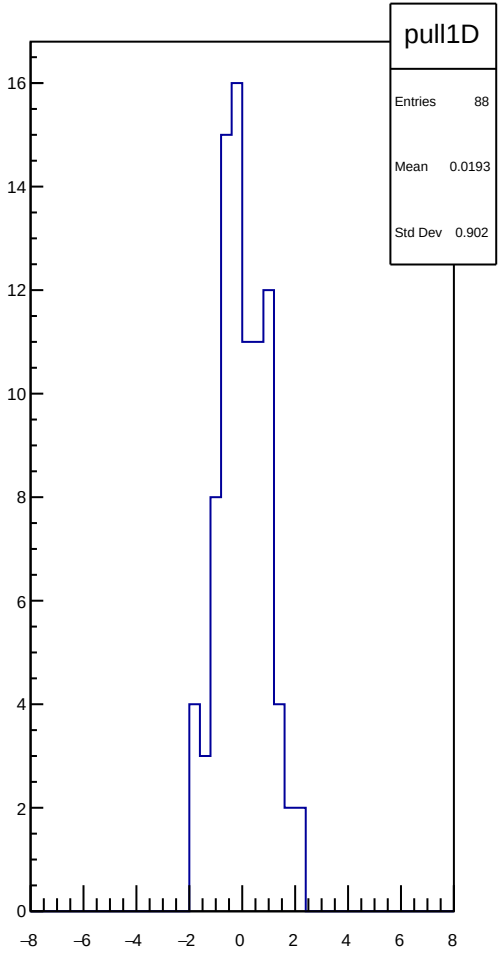

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 3798 / 87
p0 1205 ± 0.9377
1350
1300
1250
1200
1150
1100


asym_usr_mean vs run
χ² / ndf 69.31 / 87
p0 540.5 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 412
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

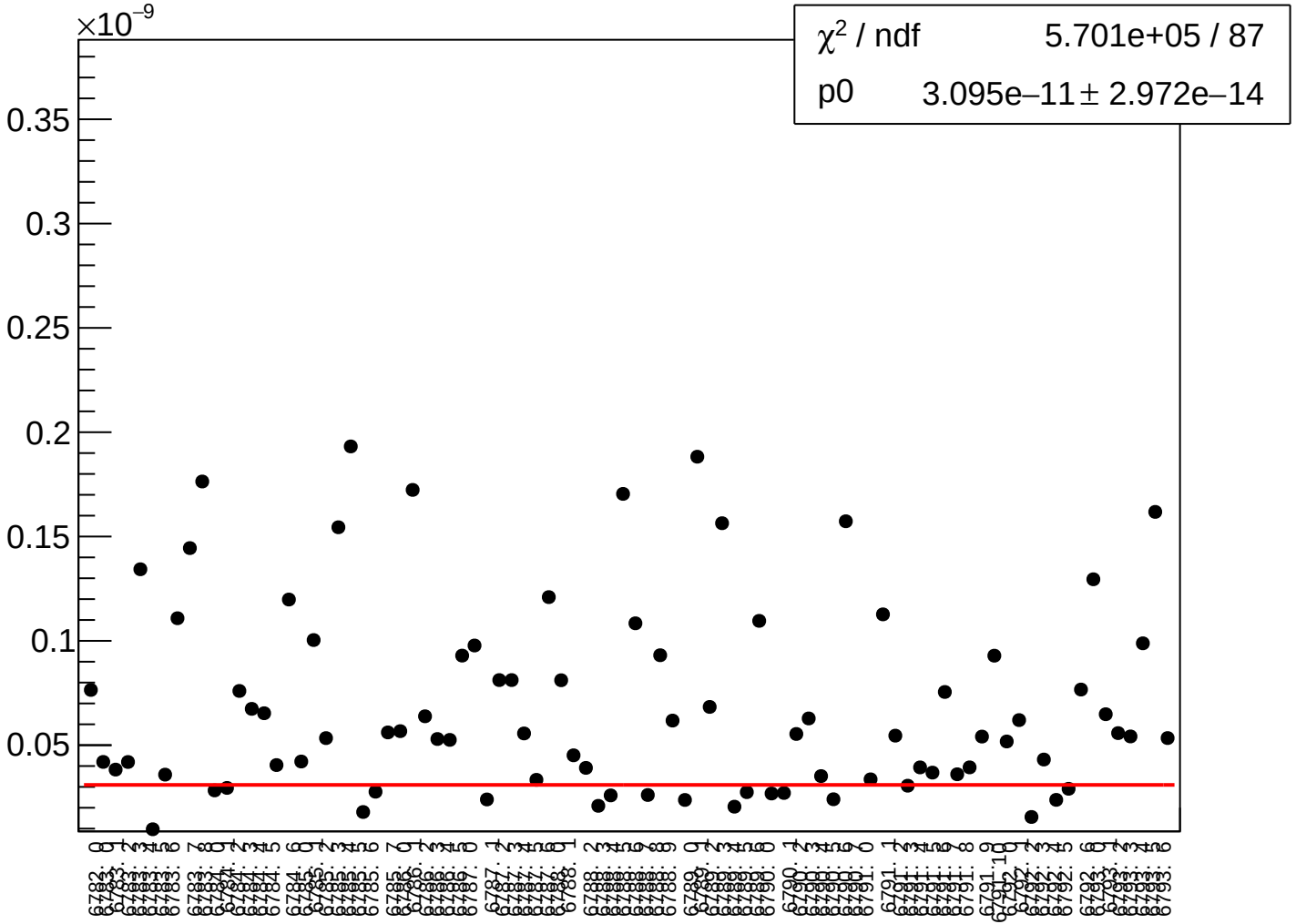

pull1D
Entries 88
Mean −0.01138
Std Dev 0.8874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

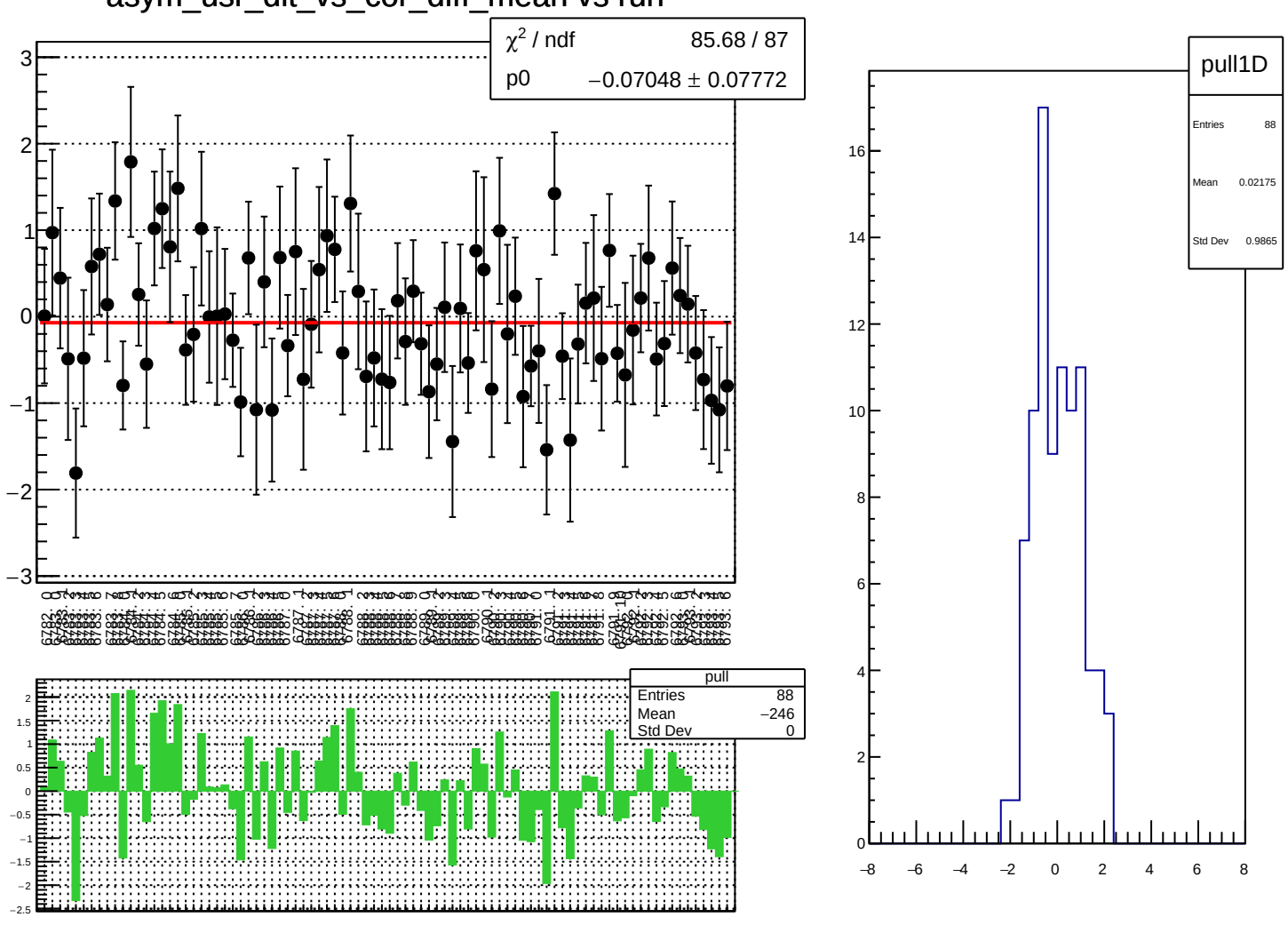

asym_usr_rms vs run
χ² / ndf 1243 / 87
p0 1614 ± 1.255
1750
1700
1650
1600
1550

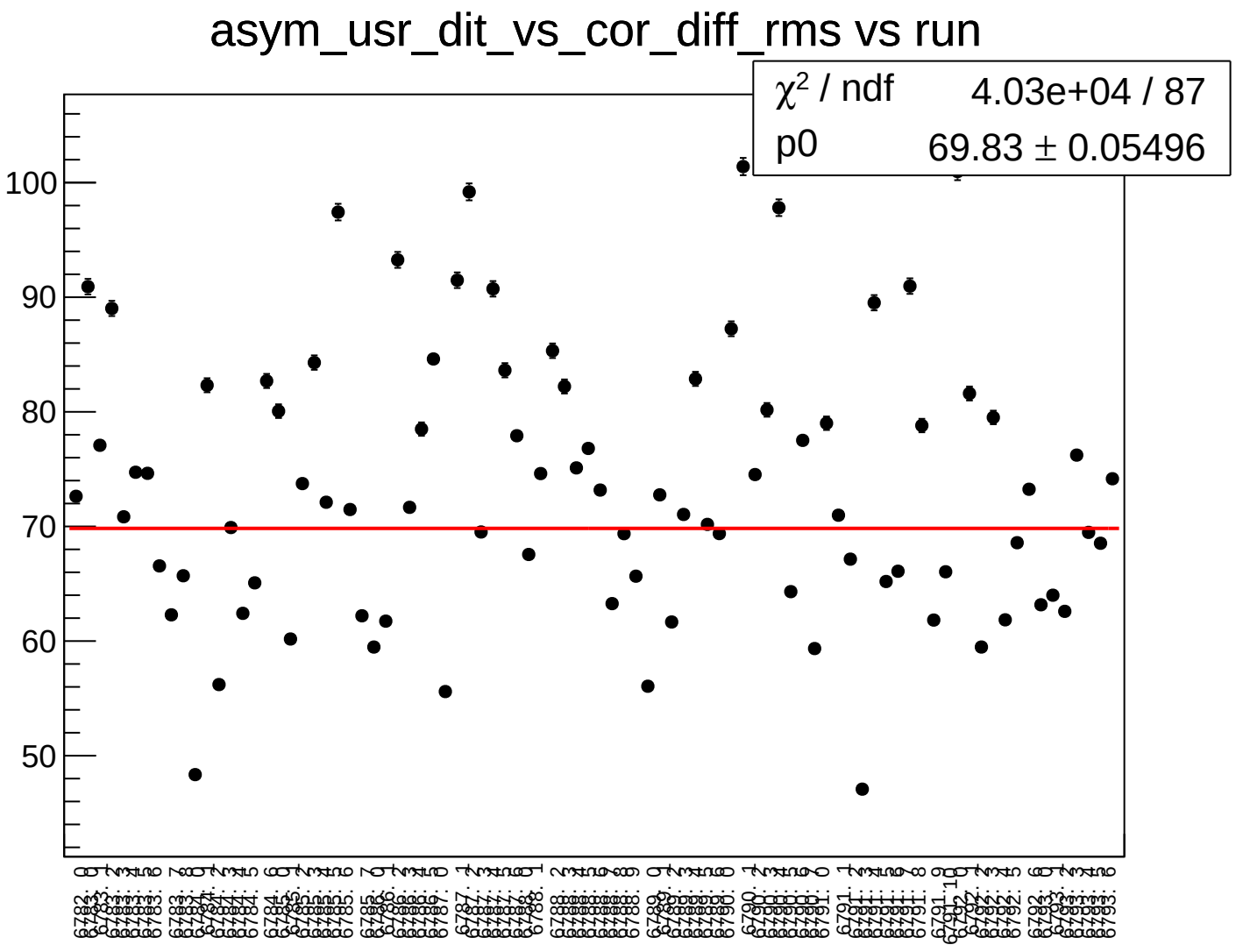

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.63 / 87
p0 −1.522e−13 ± 4.203e−14
pull
Entries 88
Mean 211.5
Std Dev 0

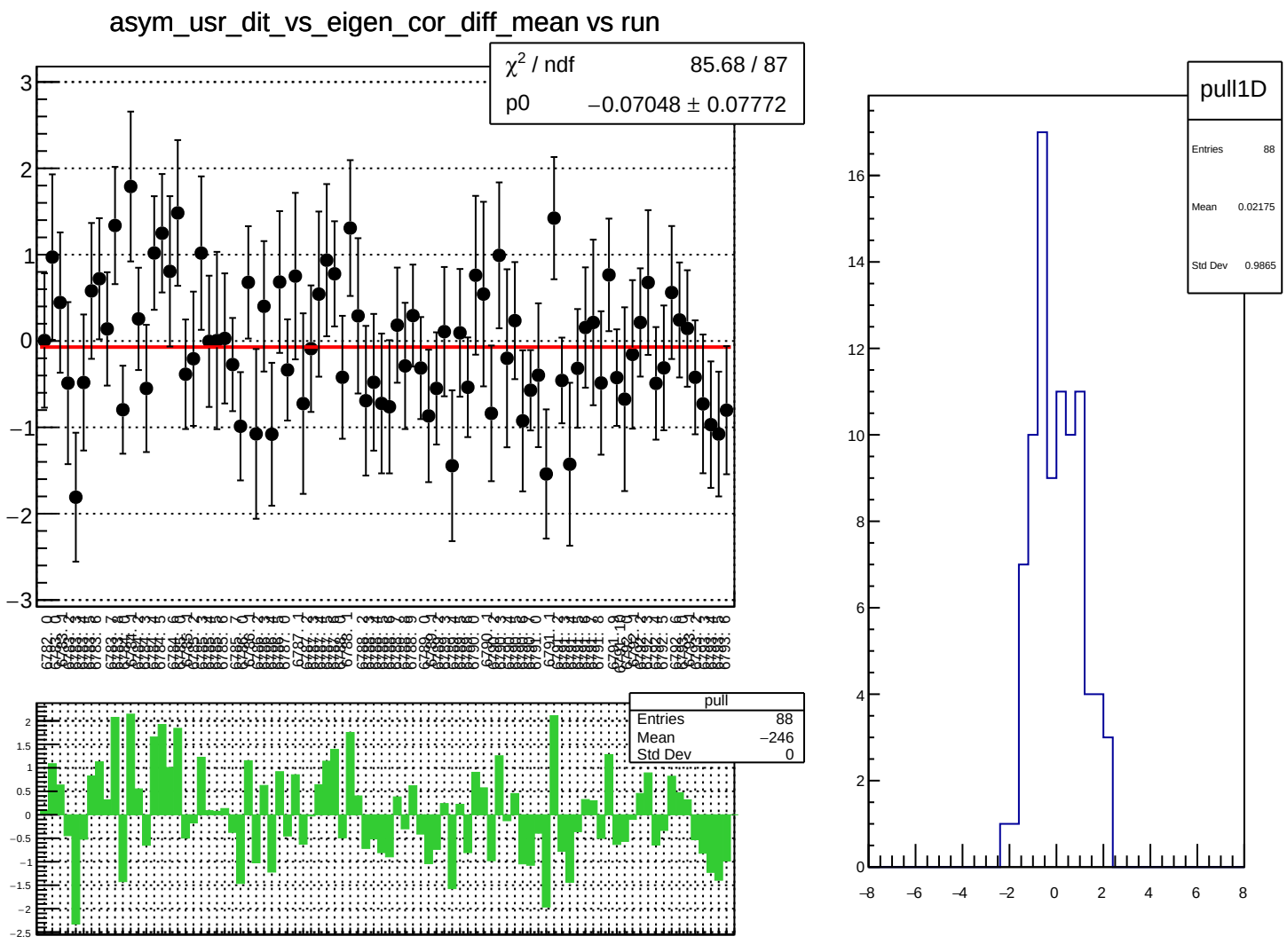

pull1D
Entries 88
Mean 0.0193
Std Dev 0.902

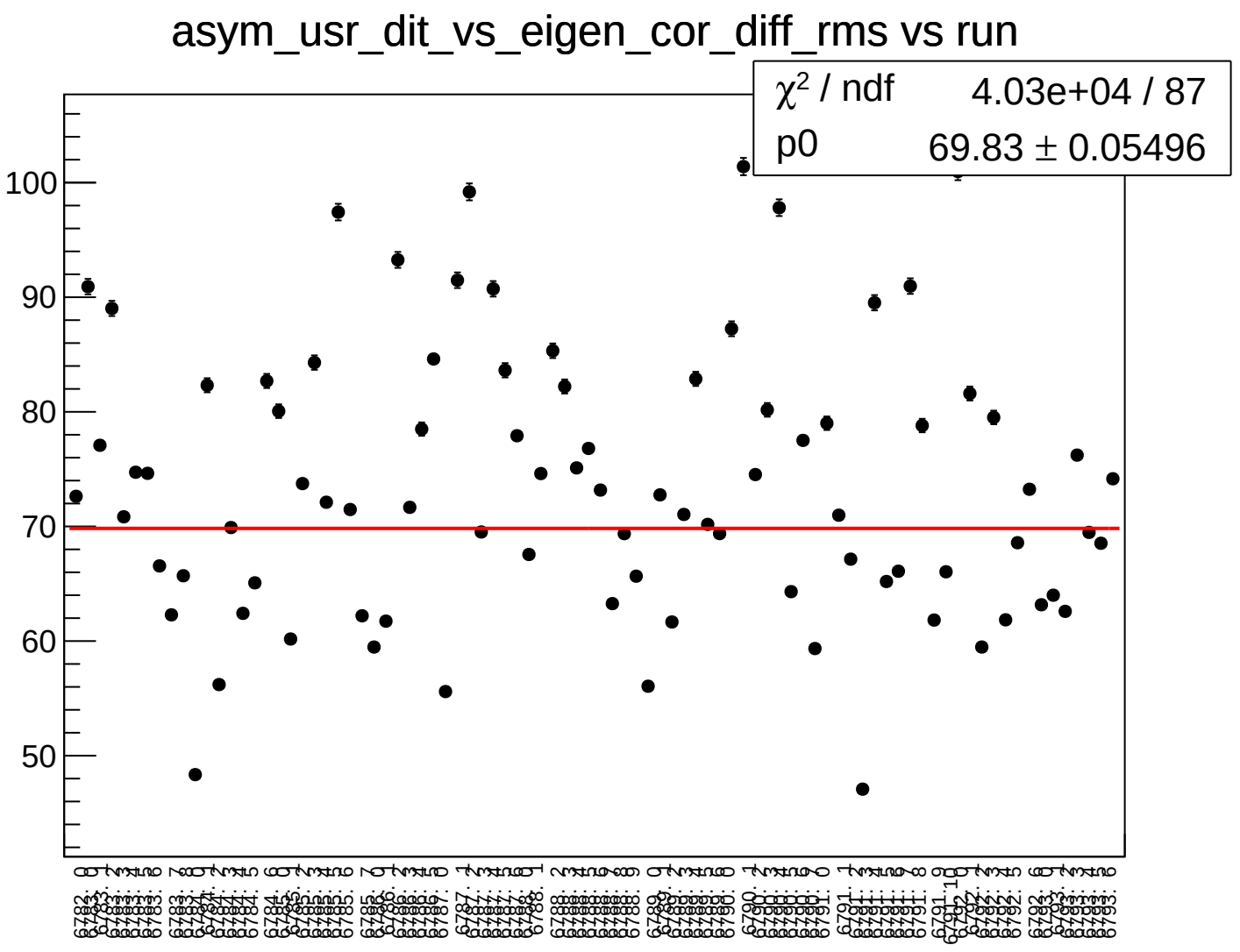
asym_usr_reg_vs_cor_diff_rms vs run

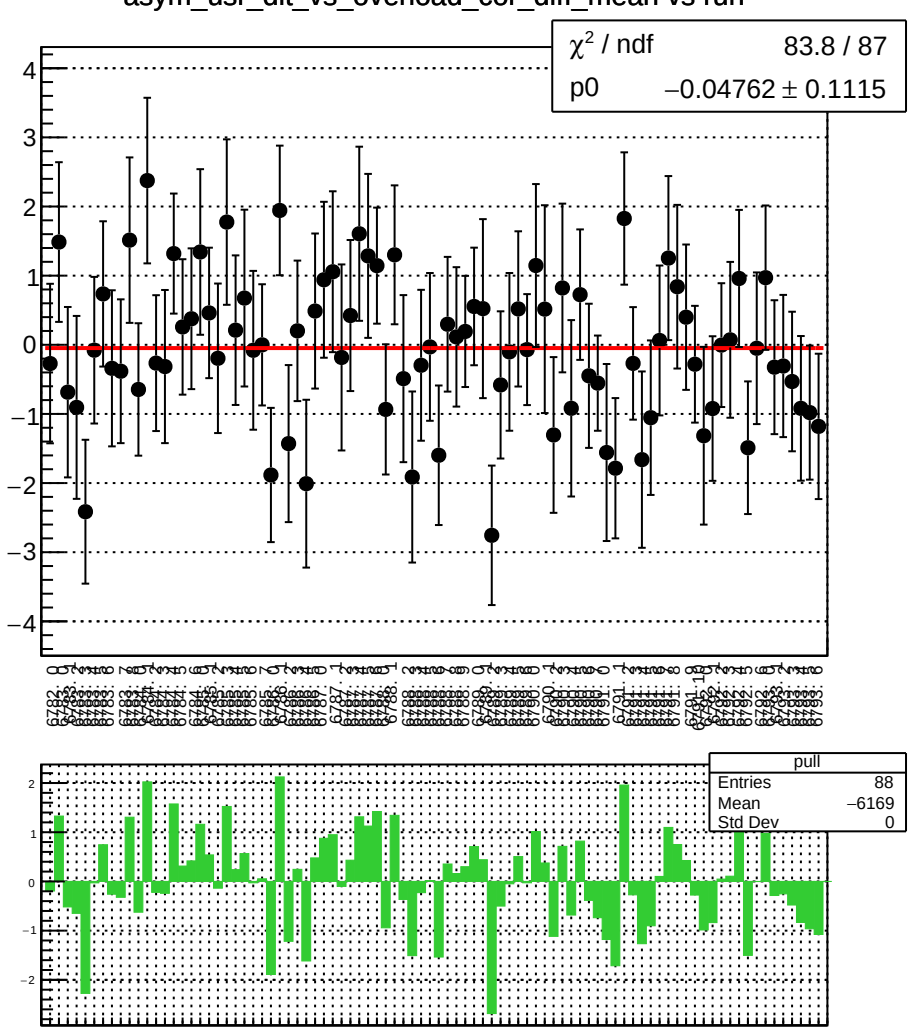


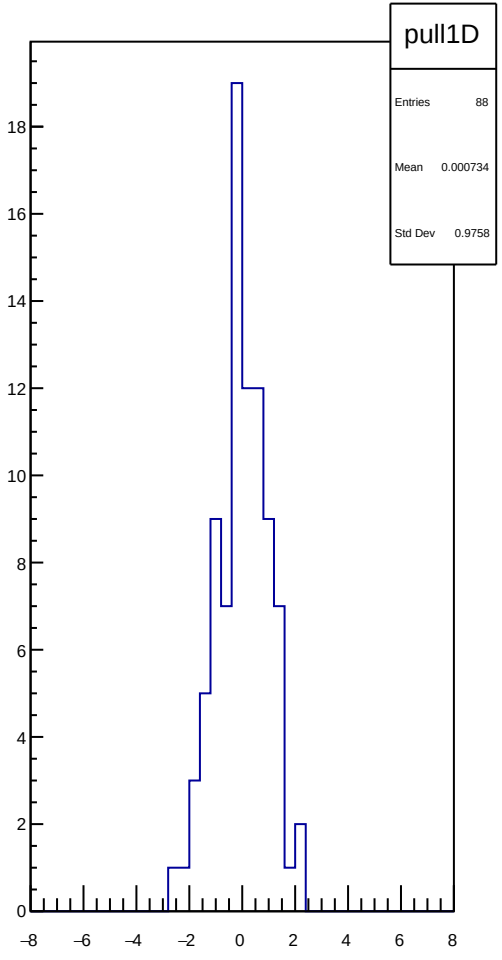

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 87
p0 −0.07048 ± 0.07772
pull
Entries 88
Mean −246
Std Dev 0
pull1D
Entries 88
Mean 0.02175
Std Dev 0.9865

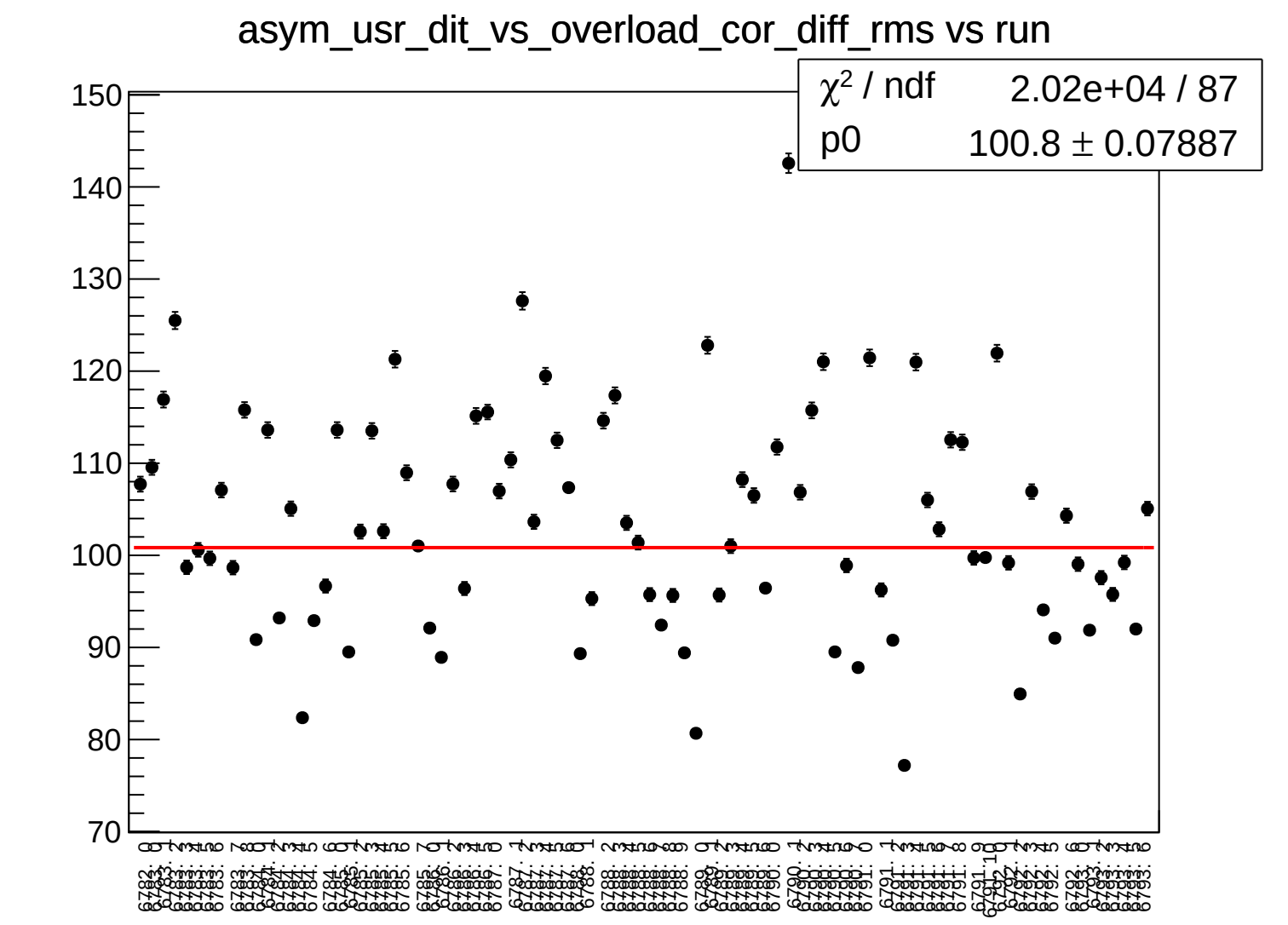

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 87
p0 69.83 ± 0.05496
100
90
80
70
60
50

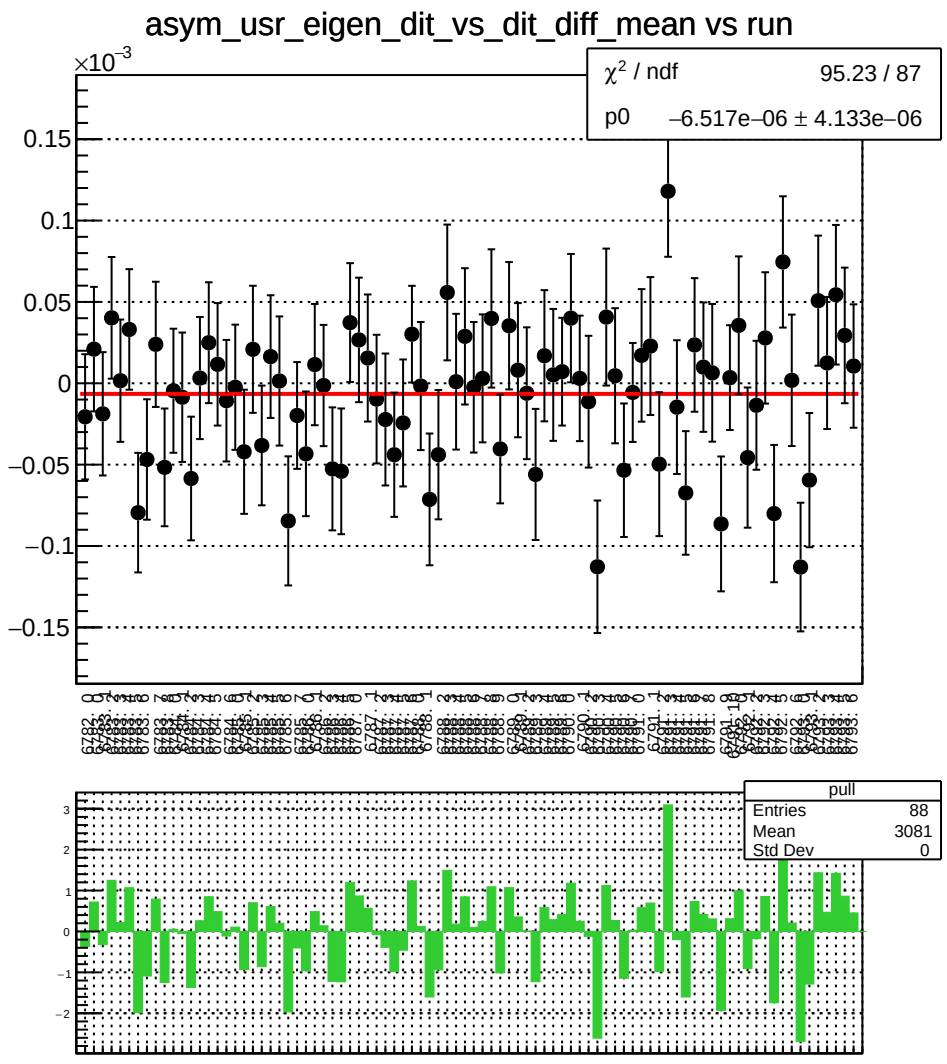

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.68 / 87
p0 −0.07048 ± 0.07772
pull
Entries 88
Mean −246
Std Dev 0
pull1D
Entries 88
Mean 0.02175
Std Dev 0.9865

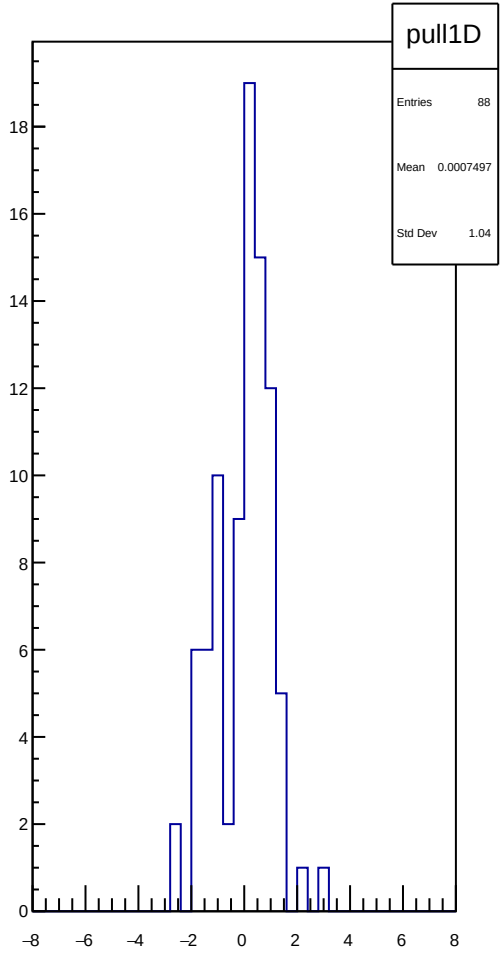

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 87
p0 69.83 ± 0.05496
100
90
80
70
60
50

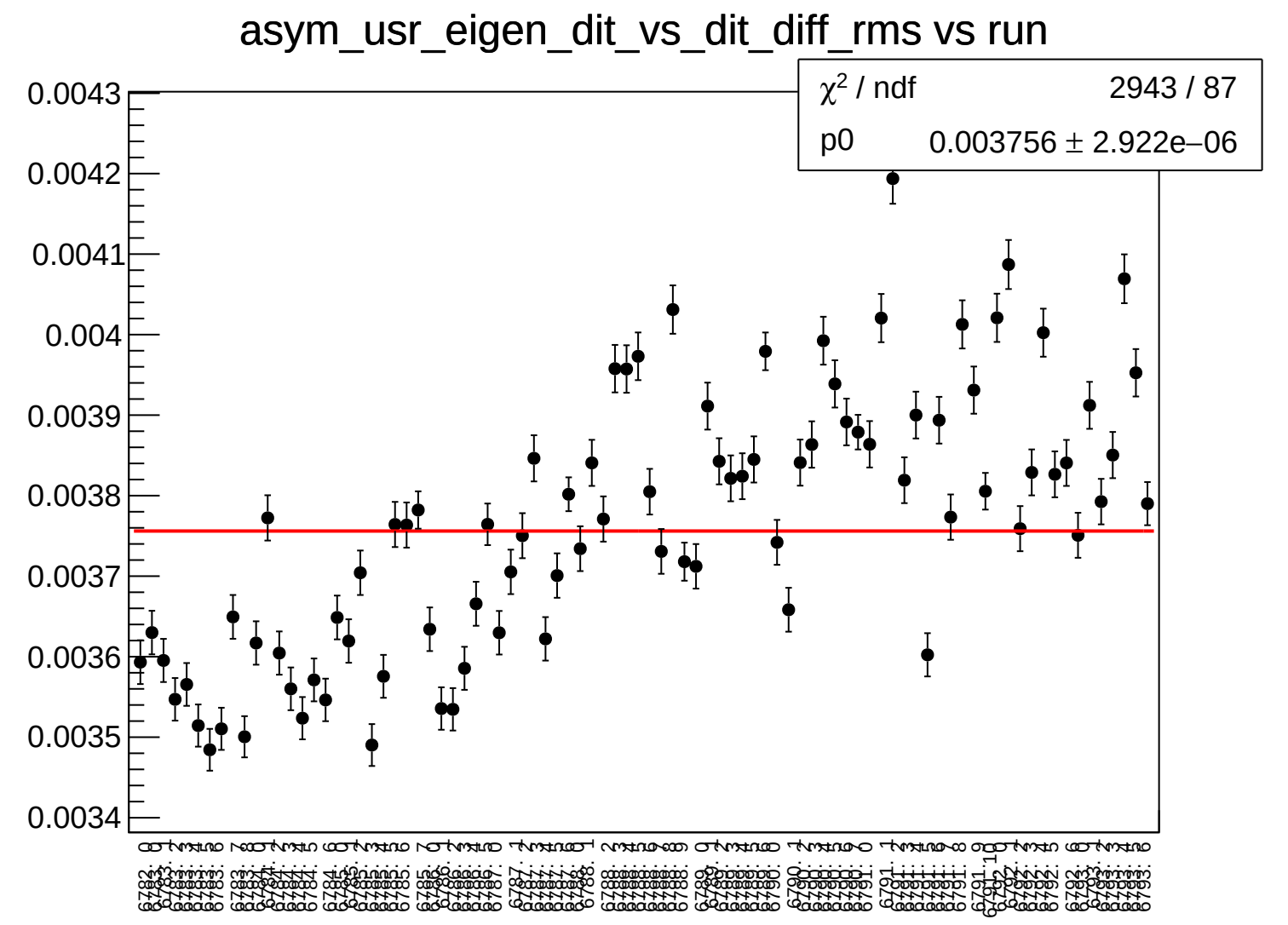

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.8 / 87
p0 −0.04762 ± 0.1115
pull
Entries 88
Mean −6169
Std Dev 0

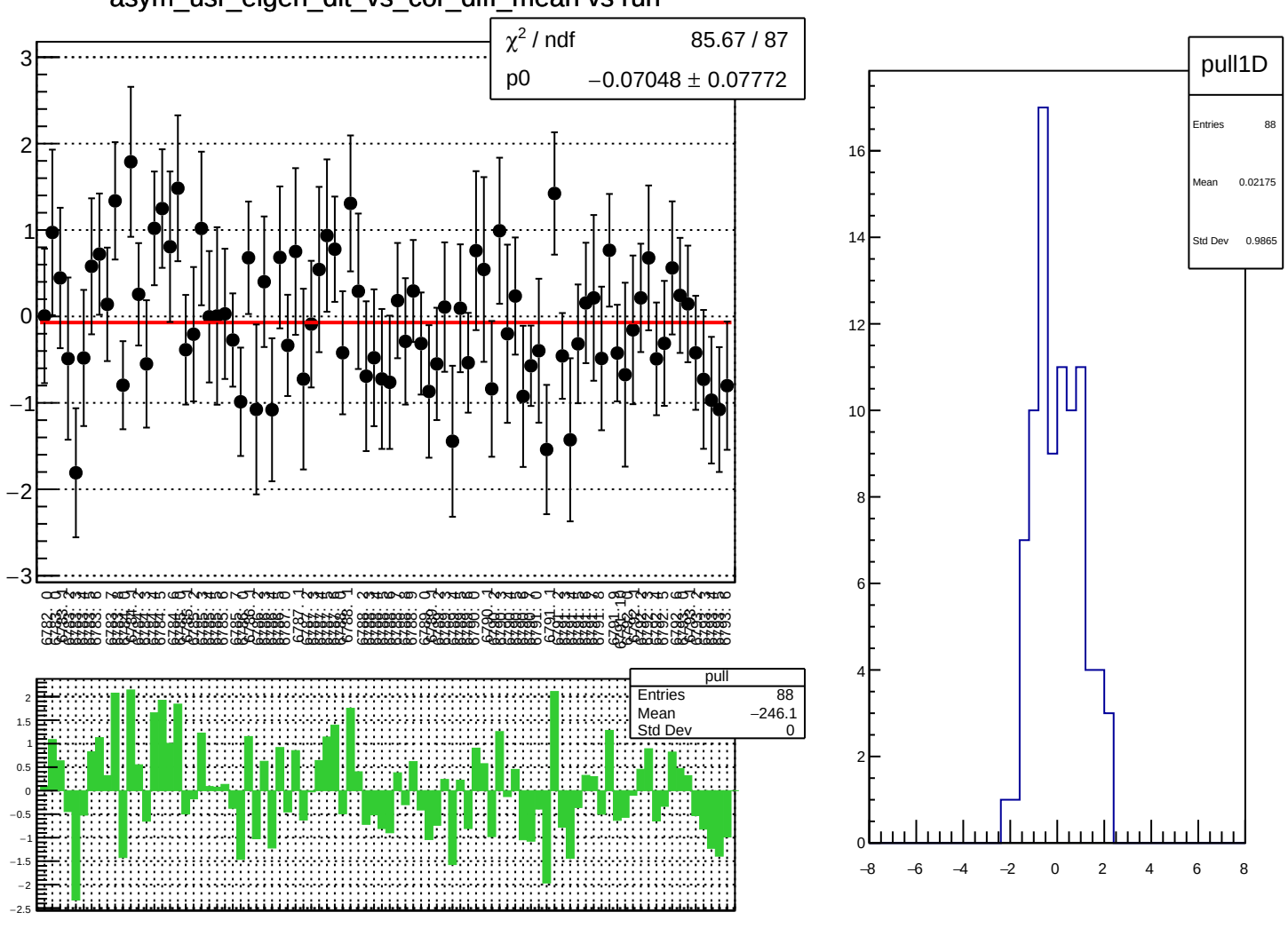

pull1D
Entries 88
Mean 0.000734
Std Dev 0.9758

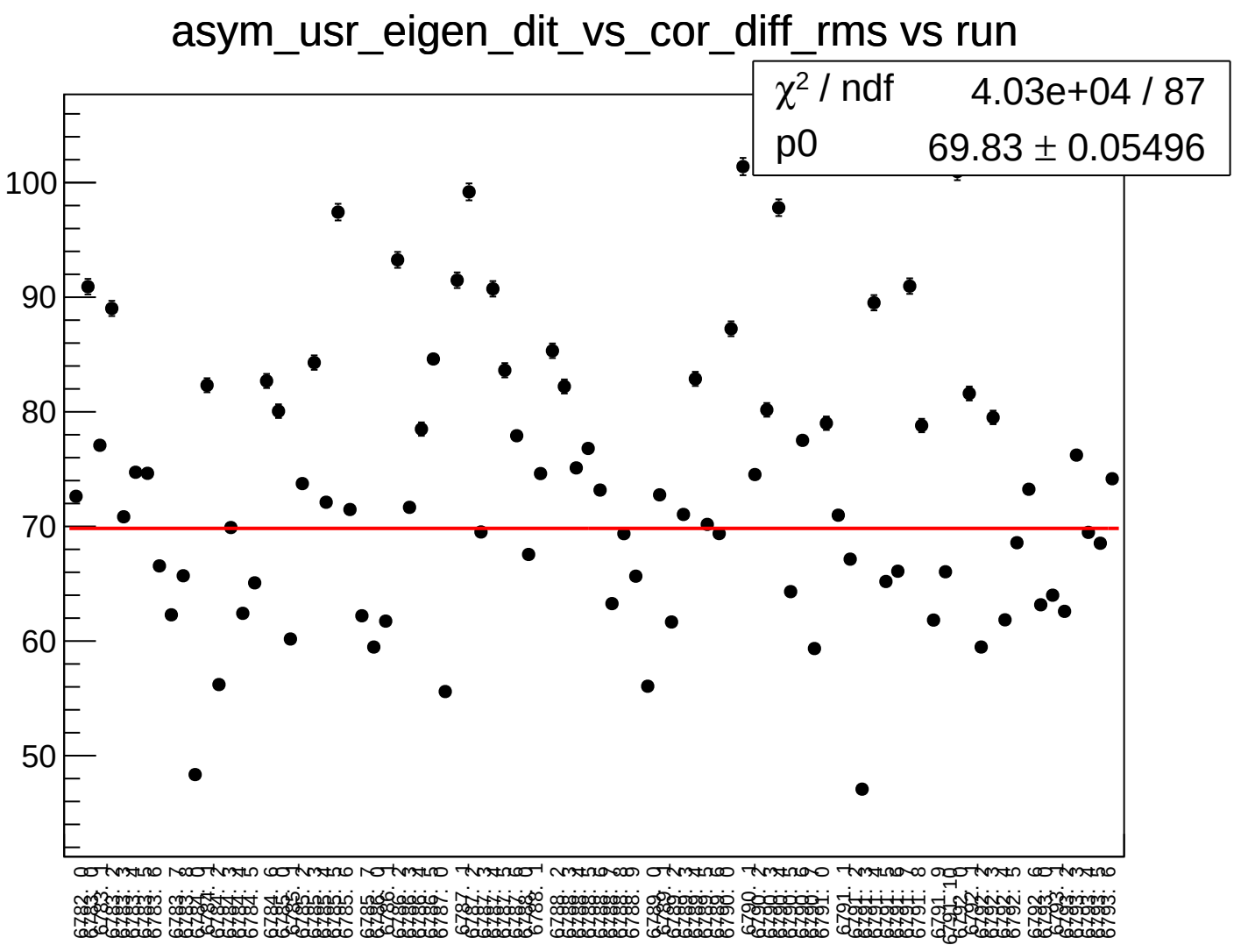

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.02e+04 / 87
p0 100.8 ± 0.07887
150
140
130
120
110
100
90
80
70

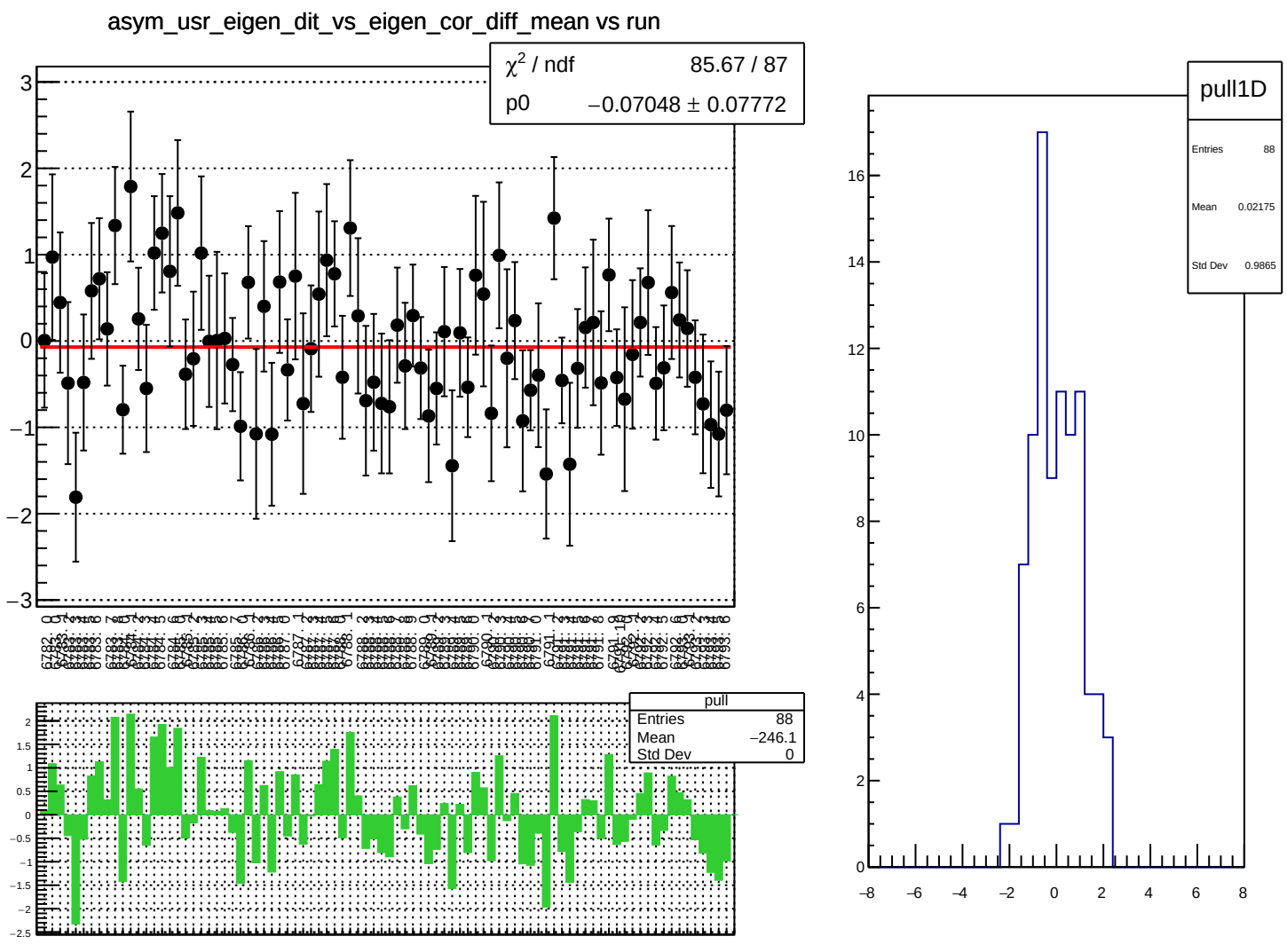

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.23 / 87
p0 −6.517e−06 ± 4.133e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 3081
Std Dev 0
3
2
1
0
−1
−2

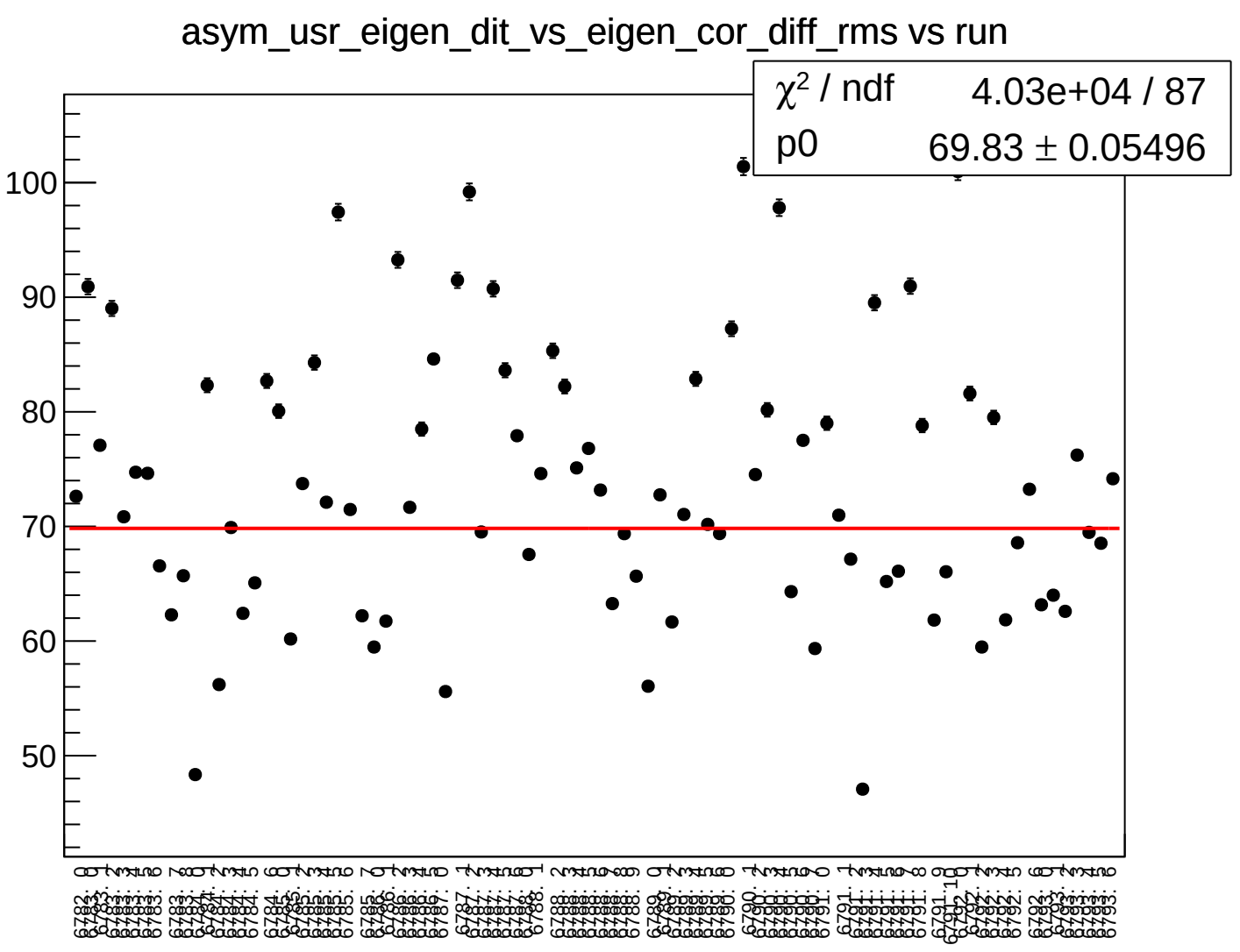

pull1D
Entries 88
Mean 0.0007497
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

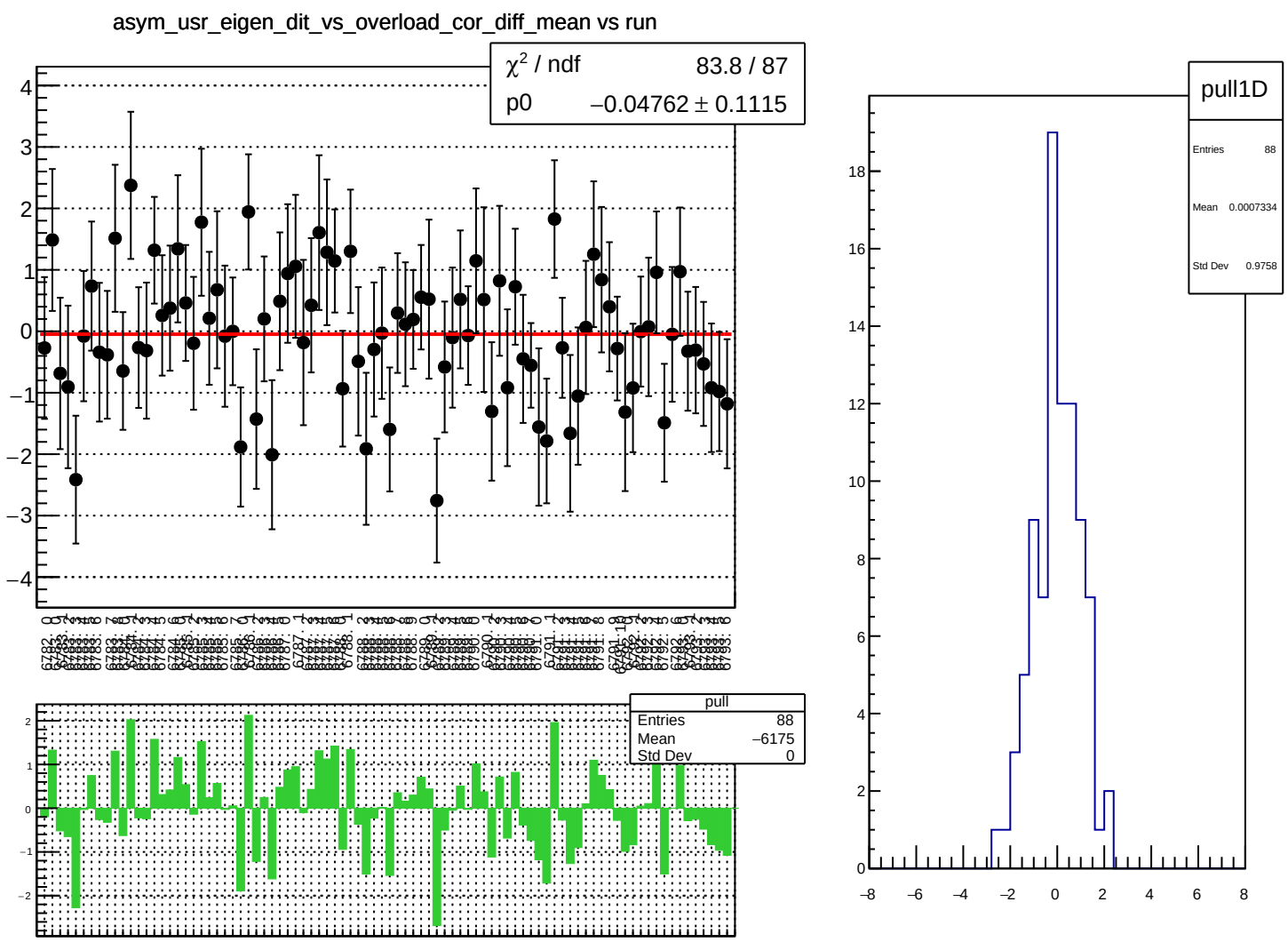

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2943 / 87
p0 0.003756 ± 2.922e−06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034

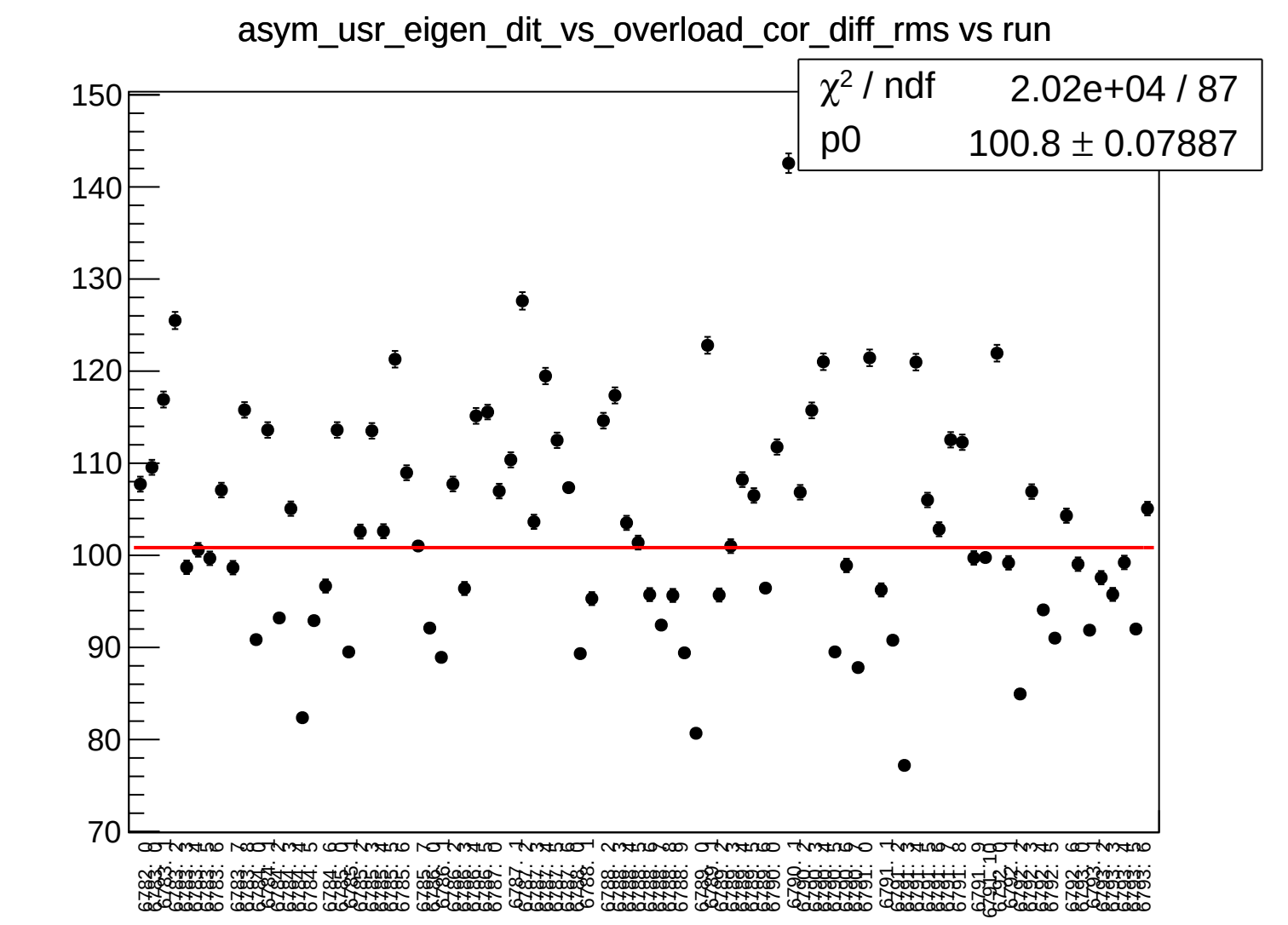

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.67 / 87
p0 −0.07048 ± 0.07772
pull
Entries 88
Mean −246.1
Std Dev 0
pull1D
Entries 88
Mean 0.02175
Std Dev 0.9865

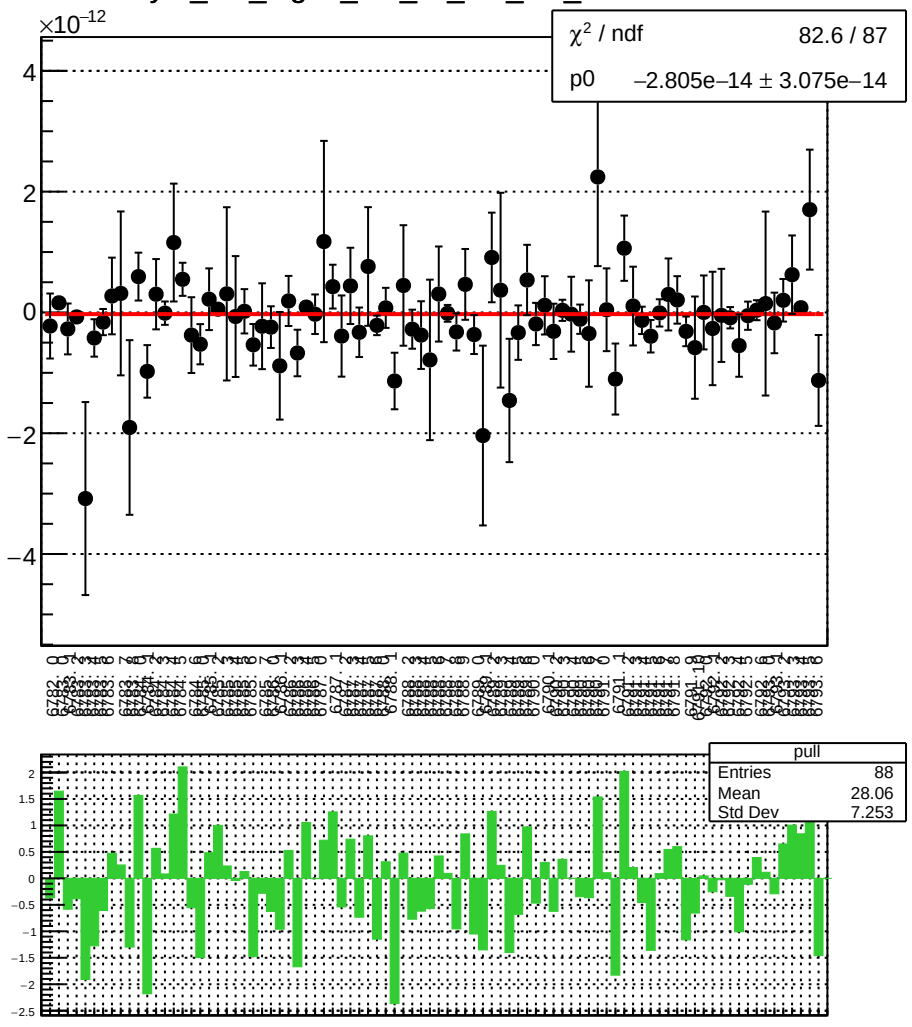

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 87
p0 69.83 ± 0.05496
100
90
80
70
60
50

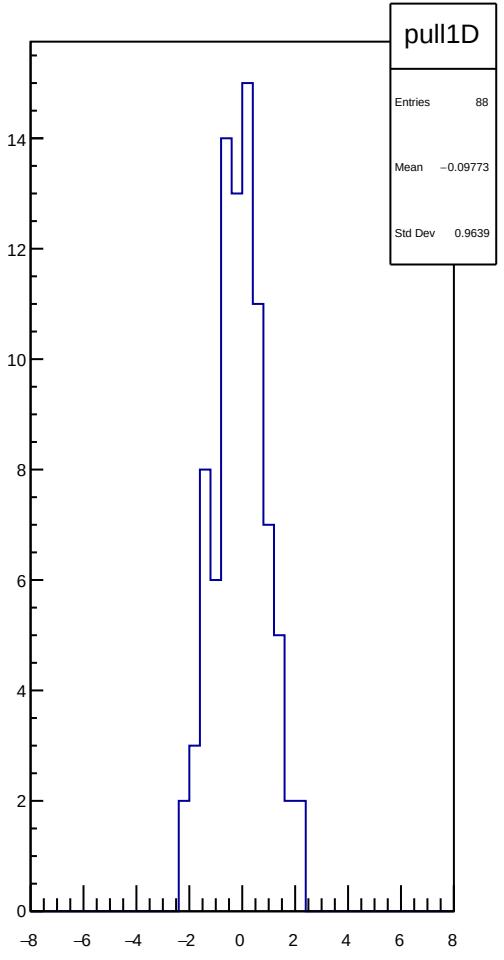

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.67 / 87
p0 −0.07048 ± 0.07772
pull
Entries 88
Mean −246.1
Std Dev 0
pull1D
Entries 88
Mean 0.02175
Std Dev 0.9865

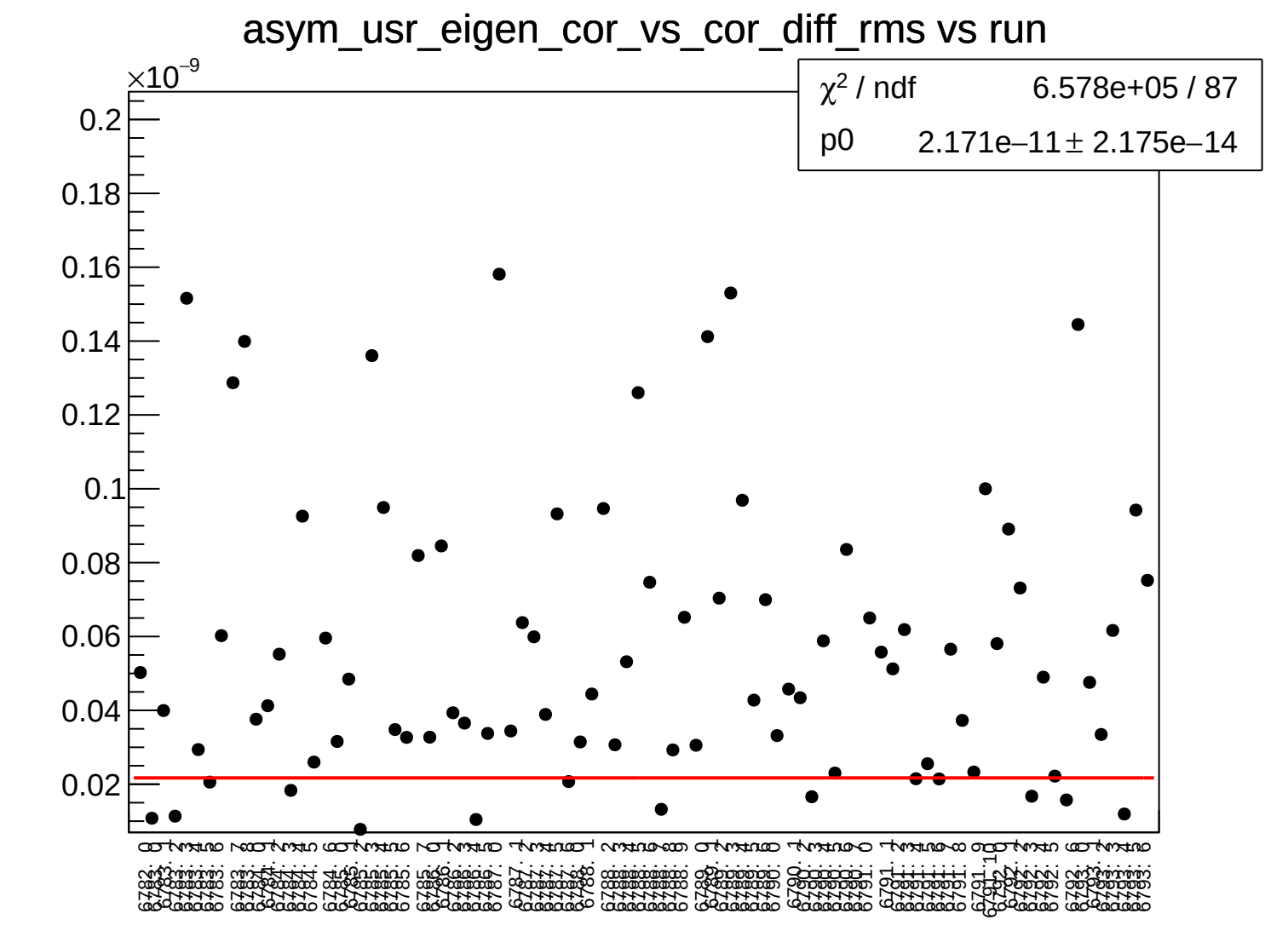

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 87
p0 69.83 ± 0.05496
100
90
80
70
60
50

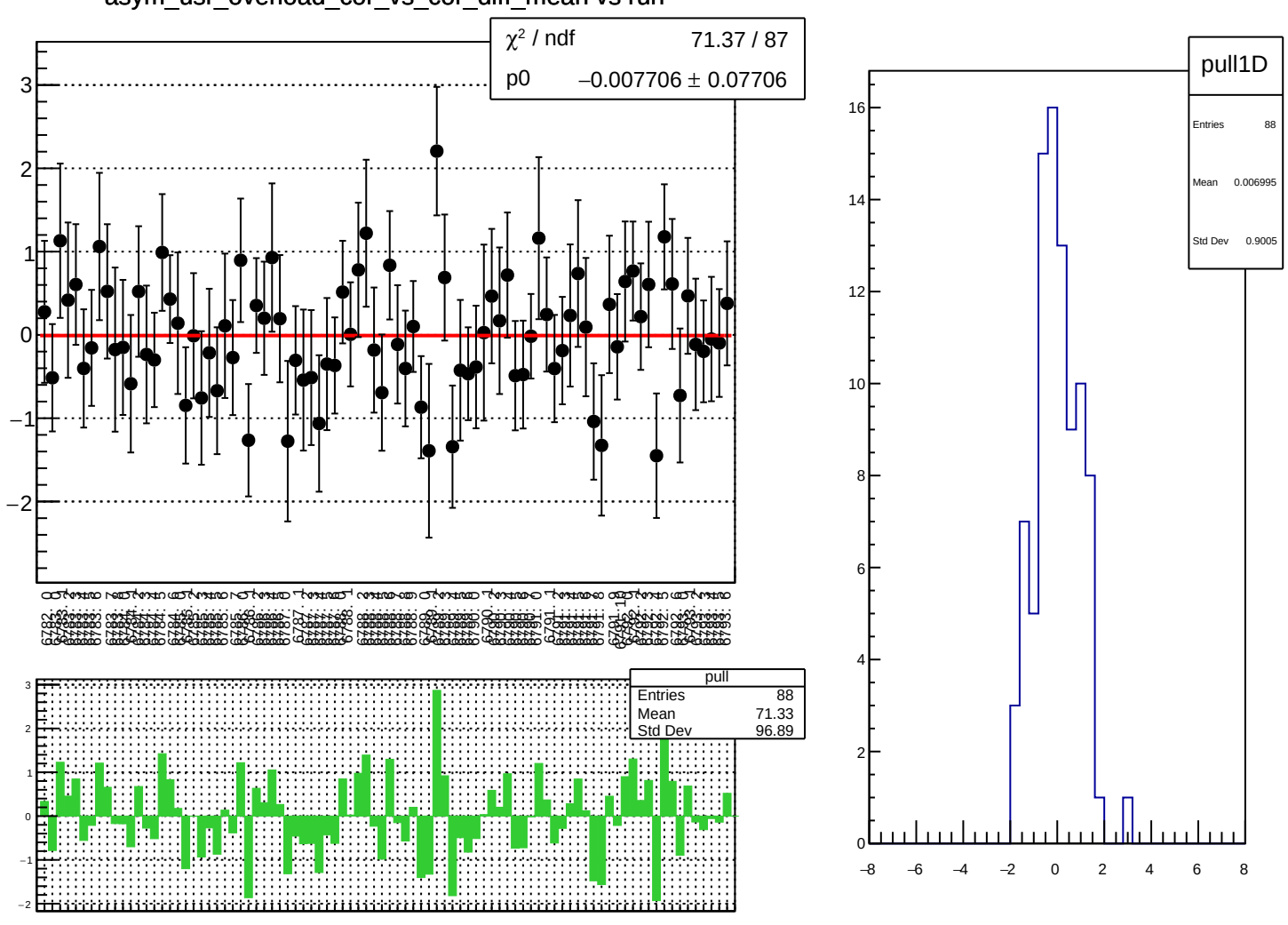

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.8 / 87
p0 −0.04762 ± 0.1115
pull
Entries 88
Mean −6175
Std Dev 0
pull1D
Entries 88
Mean 0.0007334
Std Dev 0.9758

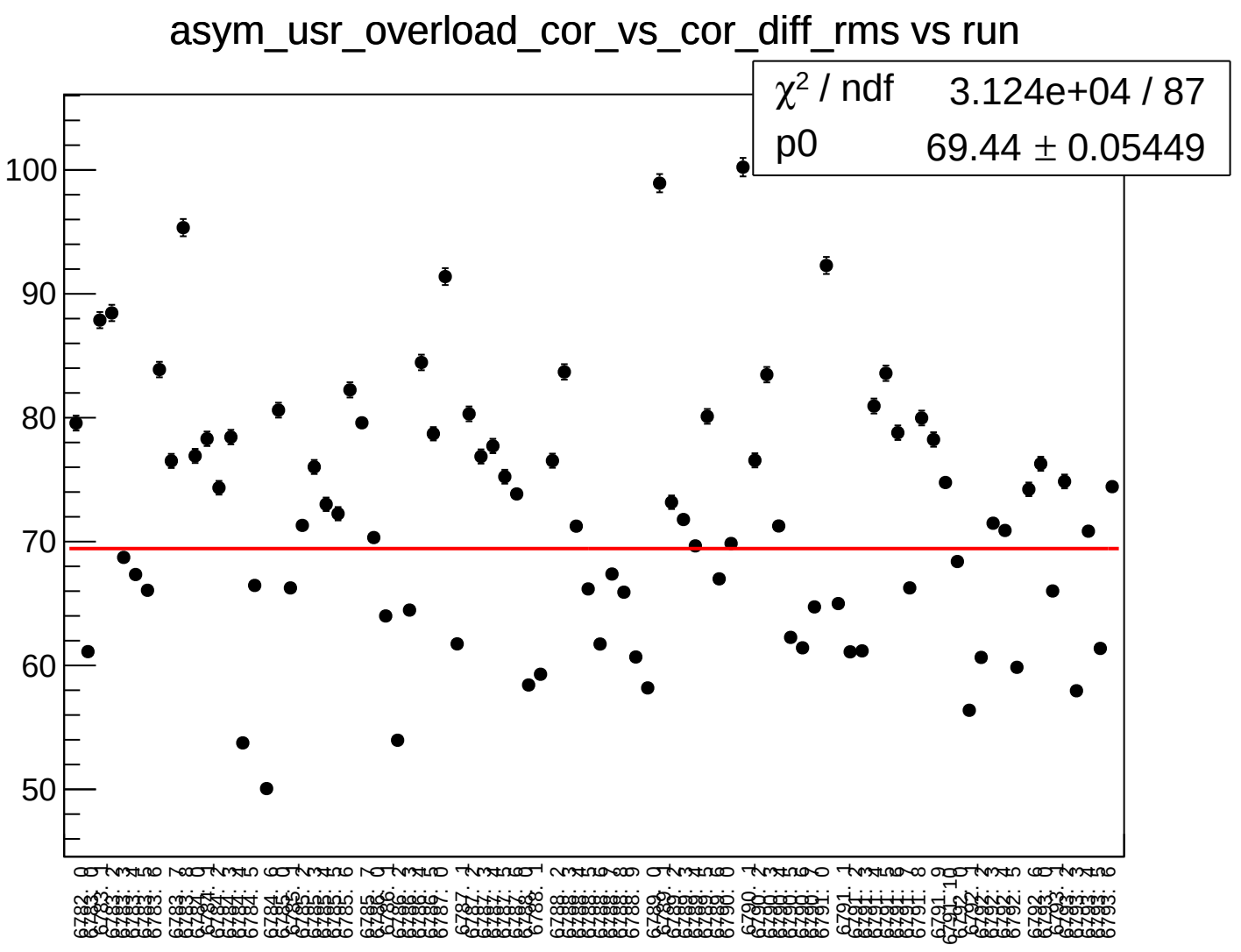

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.02e+04 / 87
p0 100.8 ± 0.07887
150
140
130
120
110
100
90
80
70

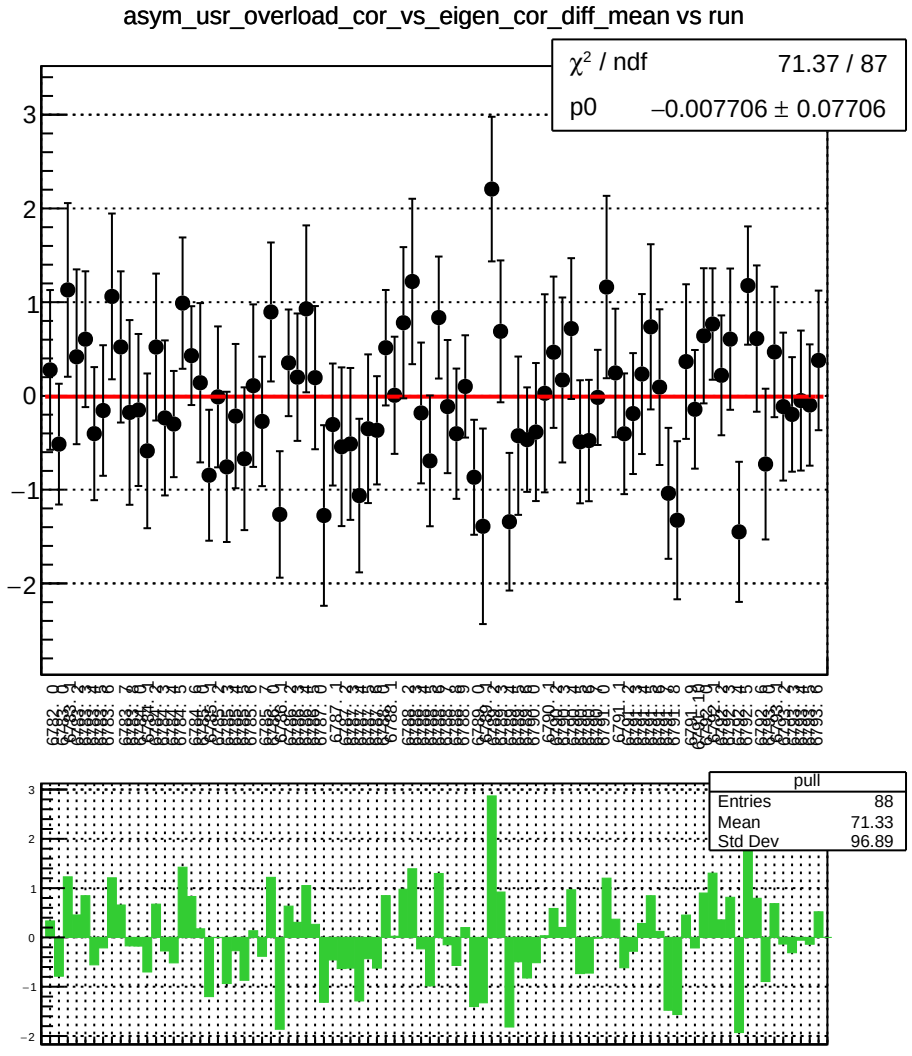

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.6 / 87
p0 −2.805e−14 ± 3.075e−14
pull
Entries 88
Mean 28.06
Std Dev 7.253

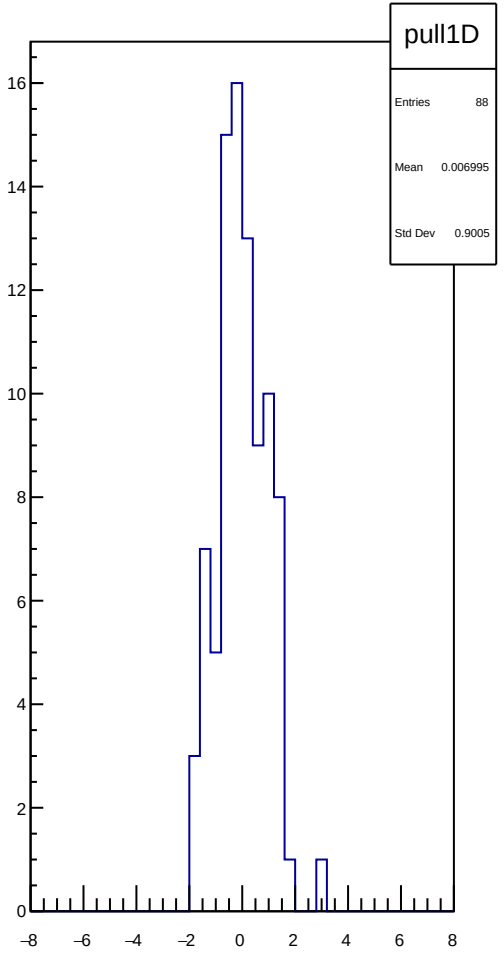

pull1D
Entries 88
Mean −0.09773
Std Dev 0.9639

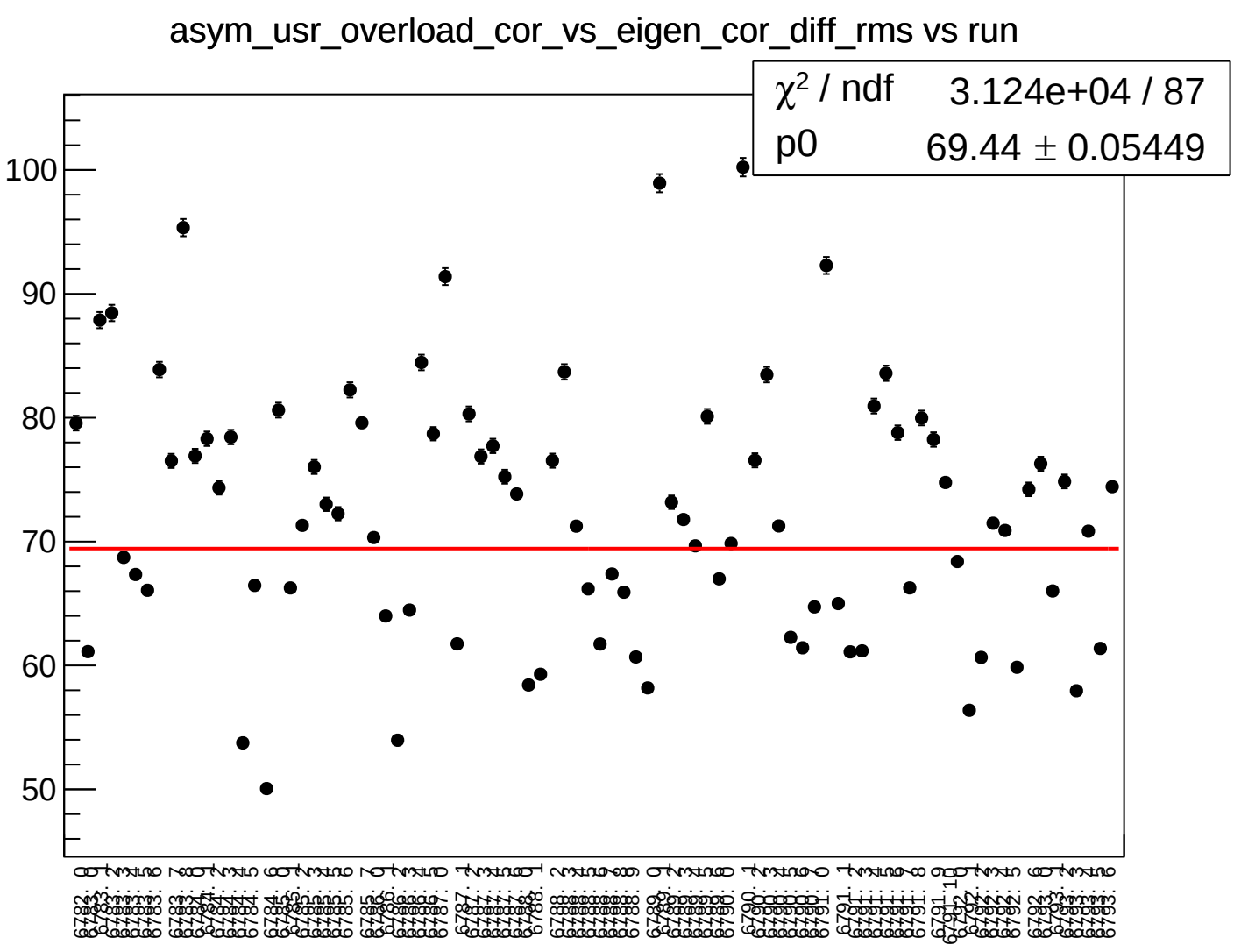

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.578e+05 / 87
p0 2.171e−11 ± 2.175e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

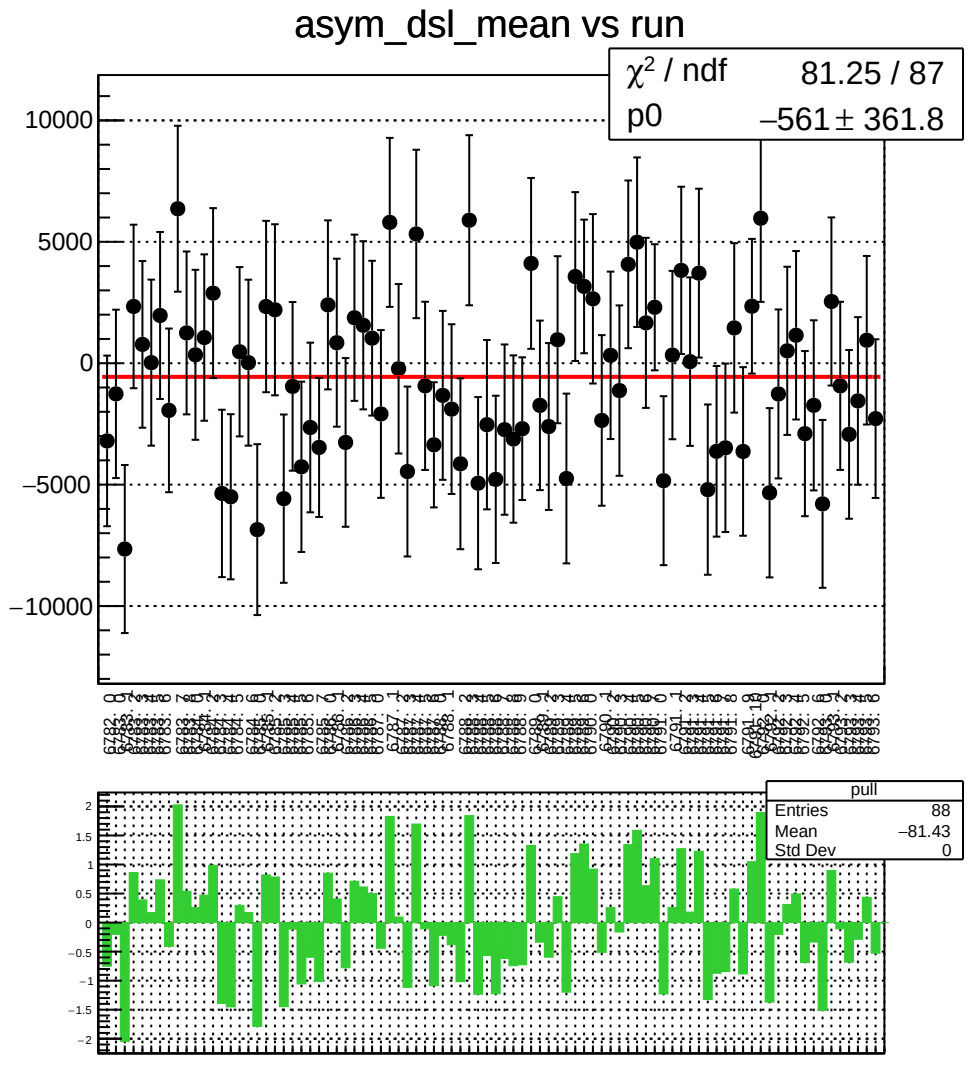

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 71.37 / 87
p0 −0.007706 ± 0.07706
pull
Entries 88
Mean 71.33
Std Dev 96.89
pull1D
Entries 88
Mean 0.006995
Std Dev 0.9005

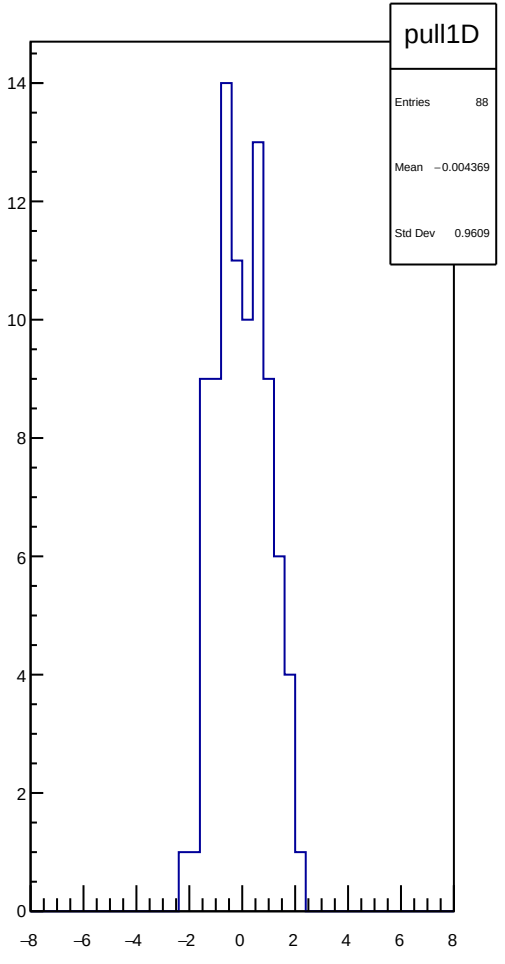

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 3.124e+04 / 87
p0 69.44 ± 0.05449
100
90
80
70
60
50

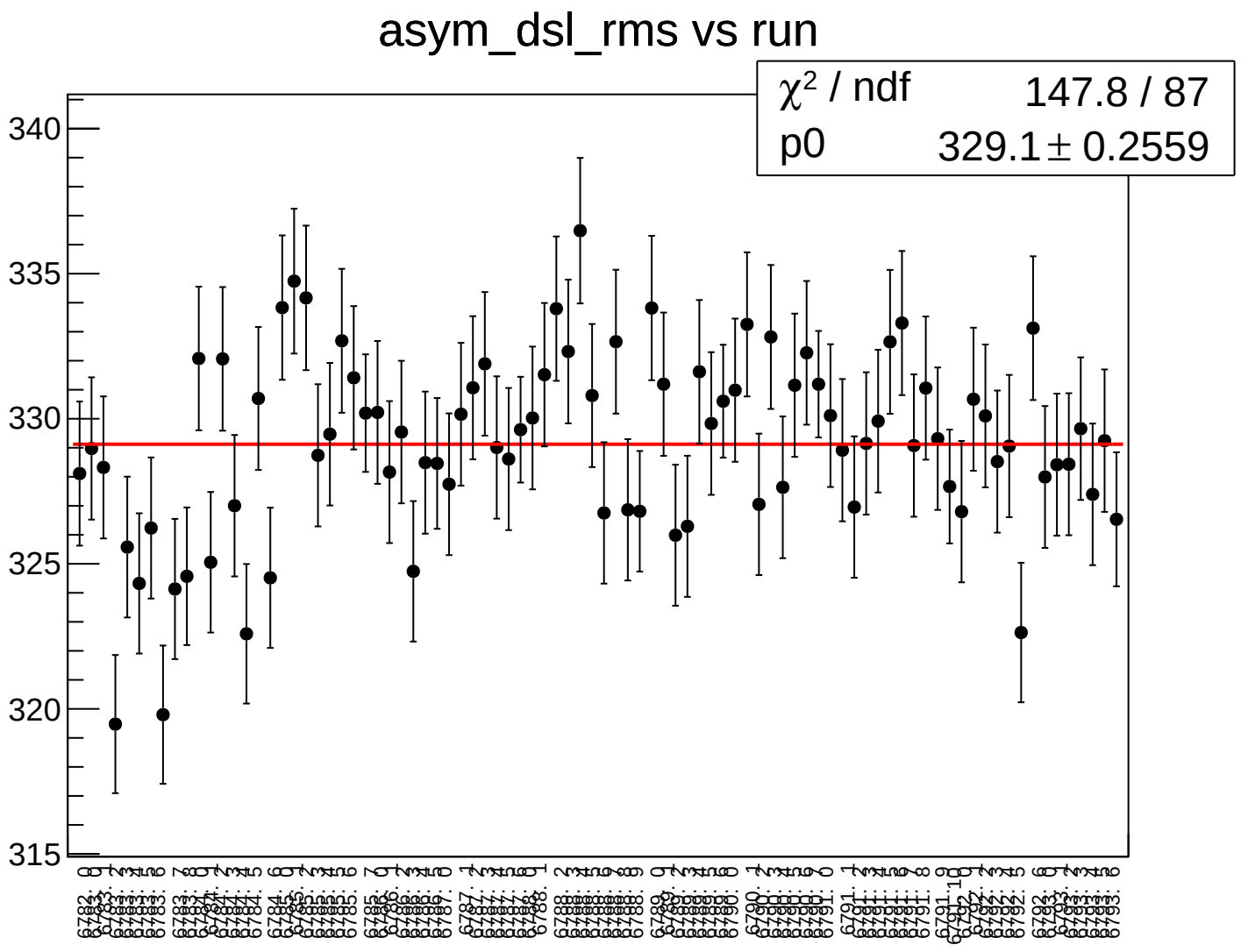

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.37 / 87
p0 −0.007706 ± 0.07706
pull
Entries 88
Mean 71.33
Std Dev 96.89

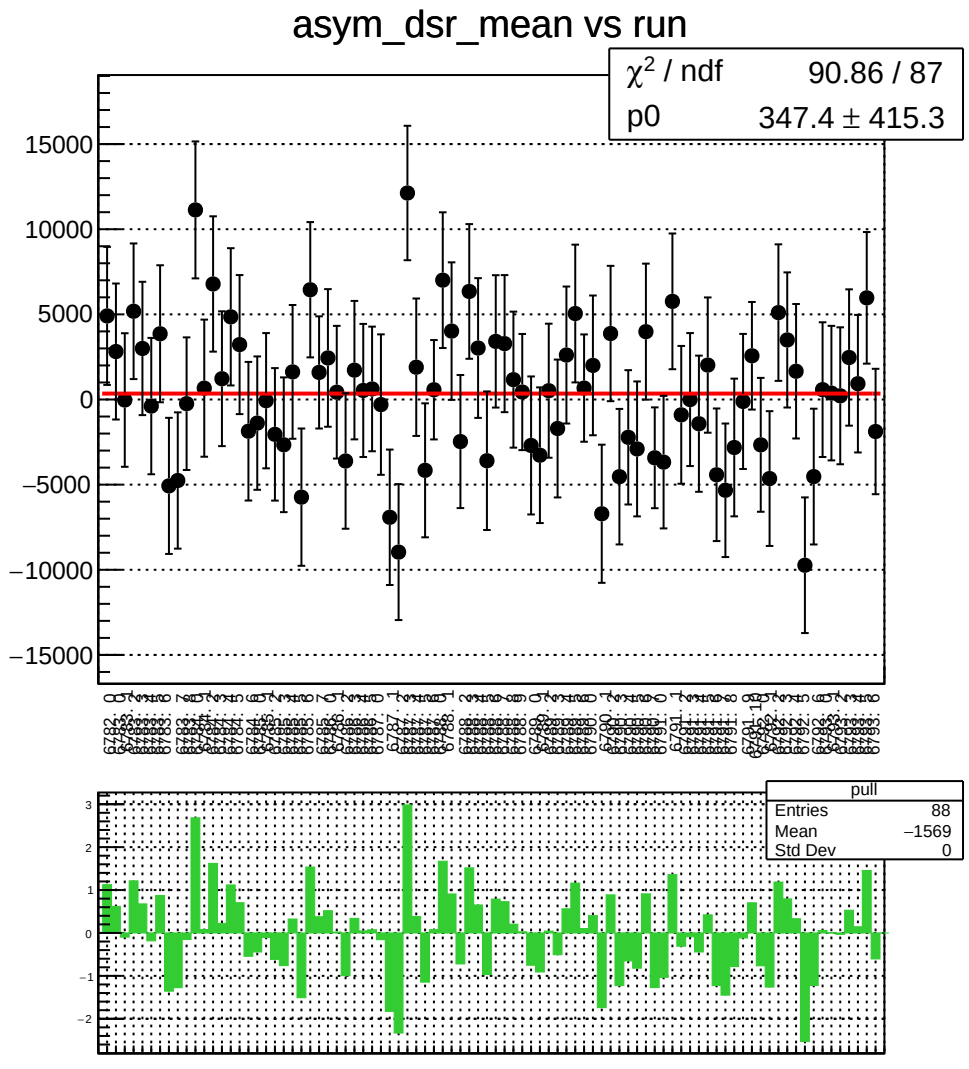

pull1D
Entries 88
Mean 0.006995
Std Dev 0.9005

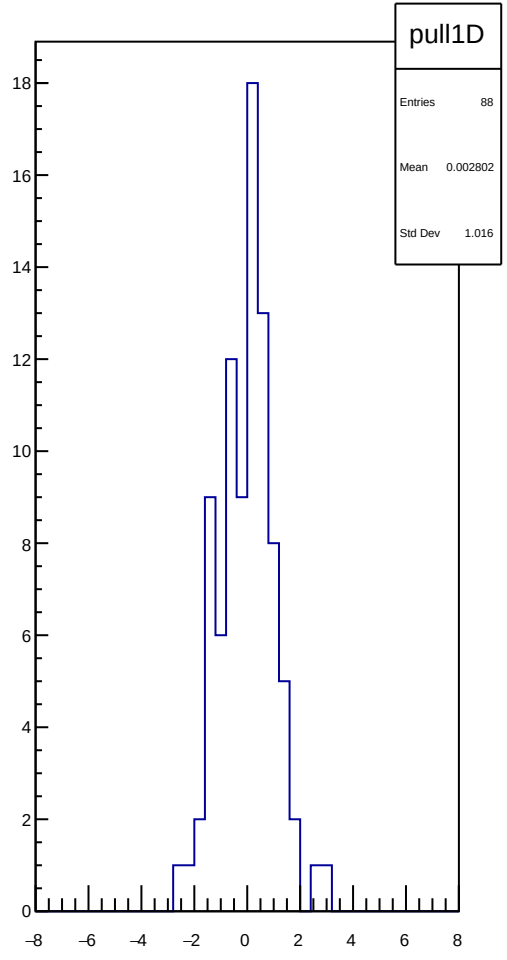

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.124e+04 / 87
p0 69.44 ± 0.05449
100
90
80
70
60
50

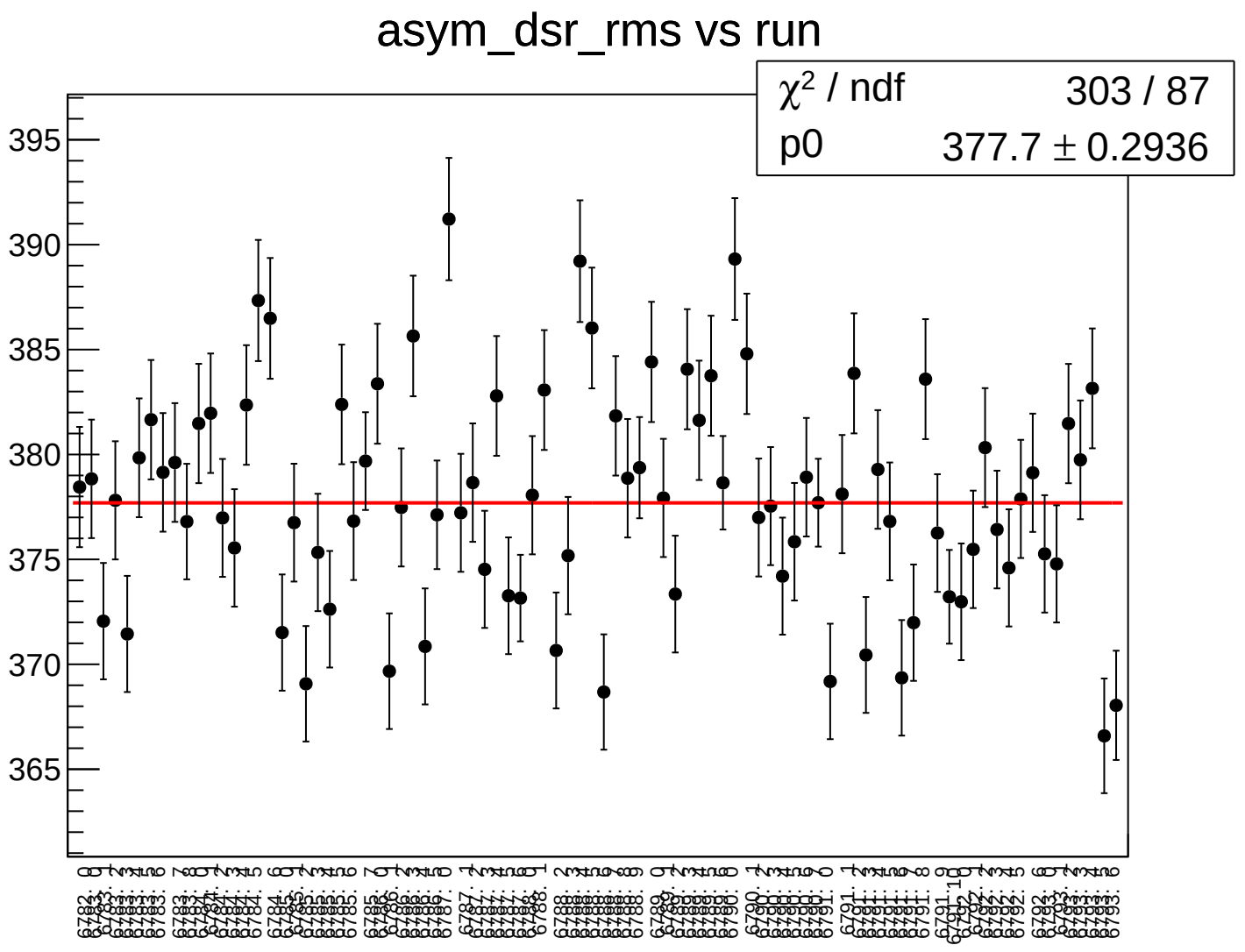

asym_dsl_mean vs run
χ² / ndf 81.25 / 87
p0 −561 ± 361.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −81.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

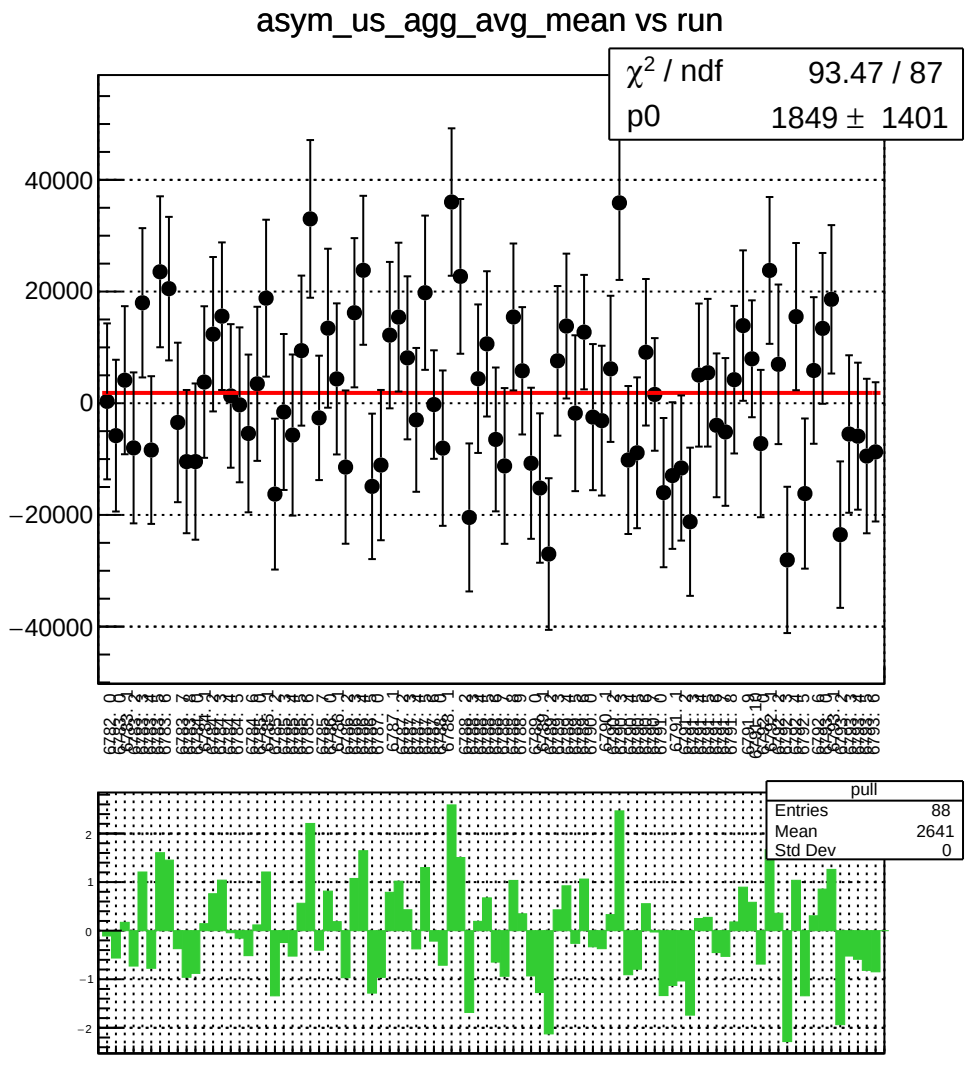

pull1D
Entries 88
Mean −0.004369
Std Dev 0.9609
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

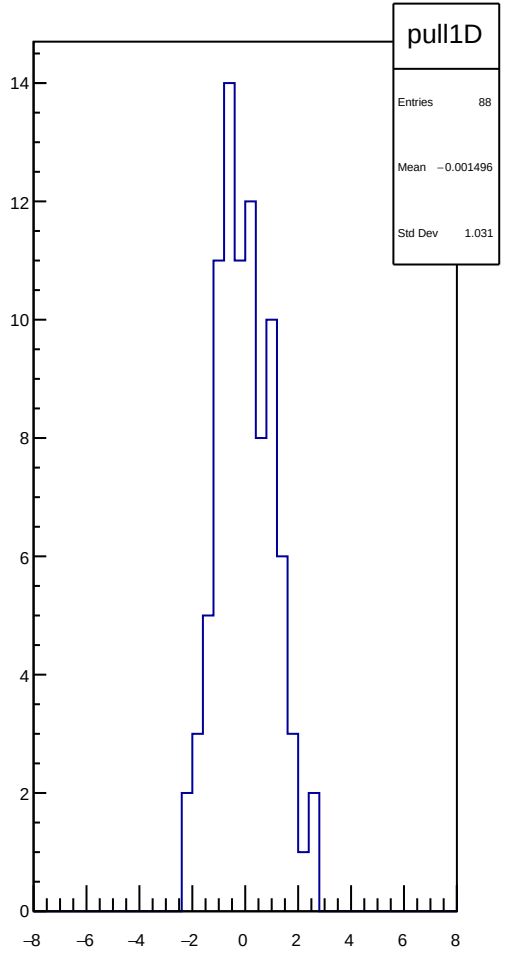

asym_dsl_rms vs run
χ² / ndf 147.8 / 87
p0 329.1 ± 0.2559
340
335
330
325
320
315

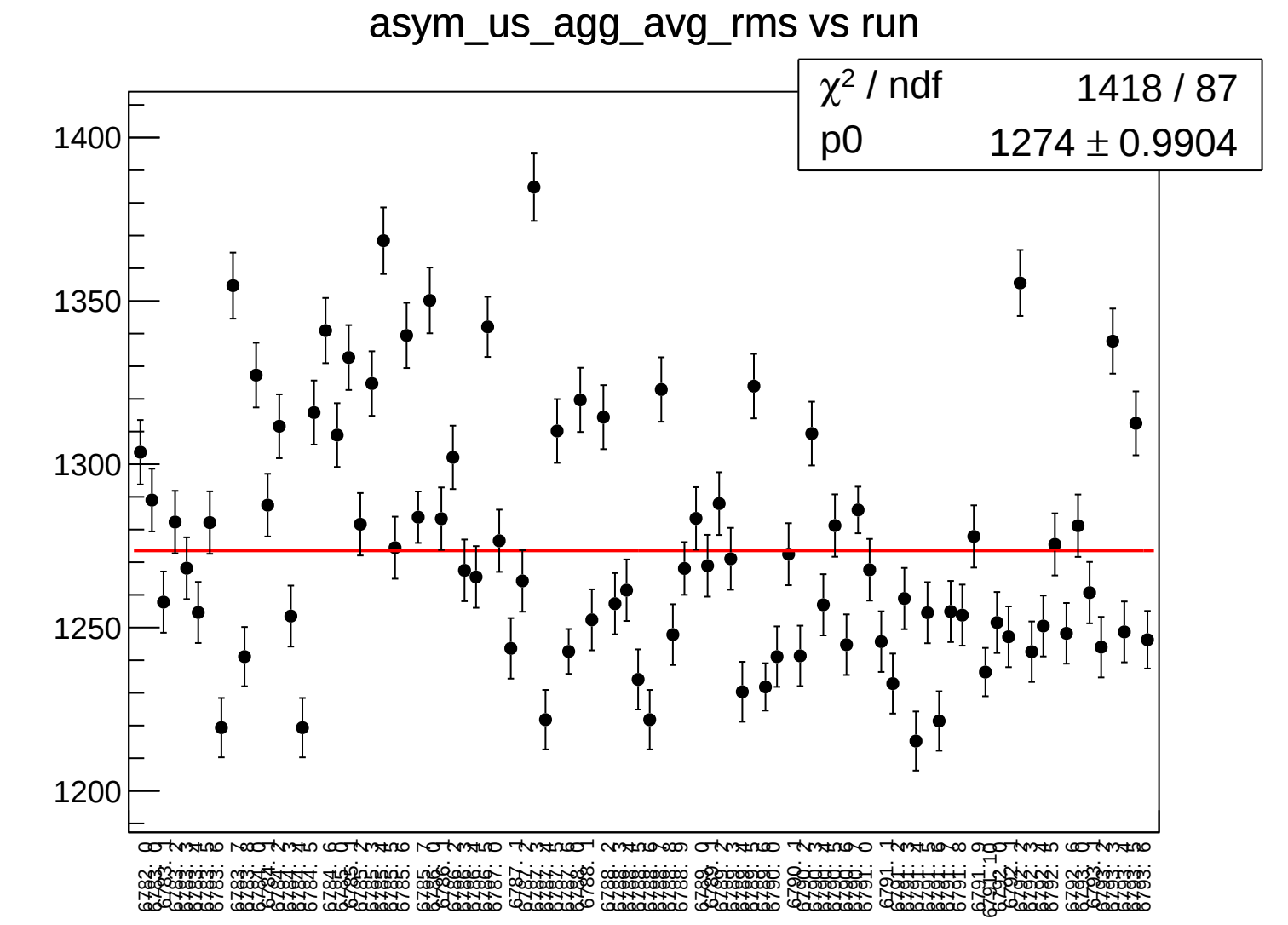

asym_dsr_mean vs run
χ² / ndf 90.86 / 87
p0 347.4 ± 415.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1569
Std Dev 0
3
2
1
0
−1
−2

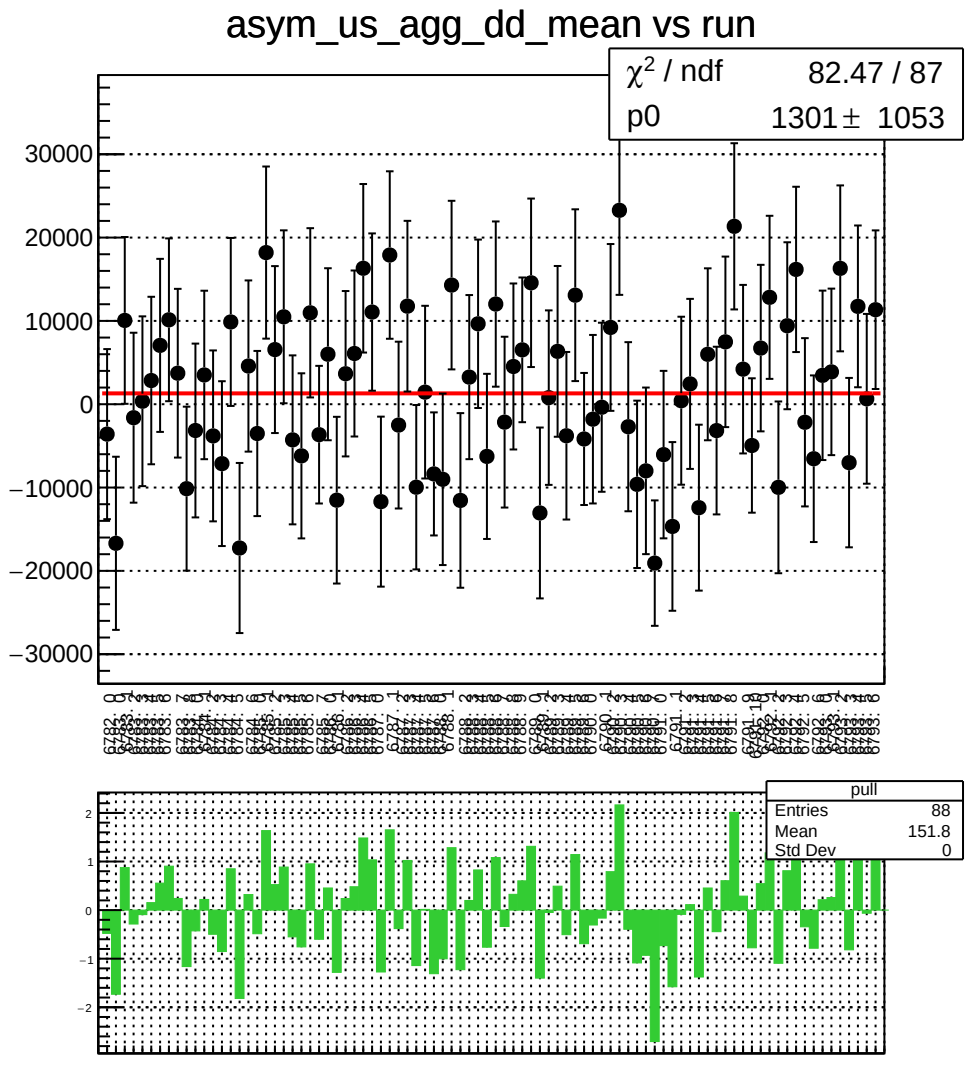

pull1D
Entries 88
Mean 0.002802
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

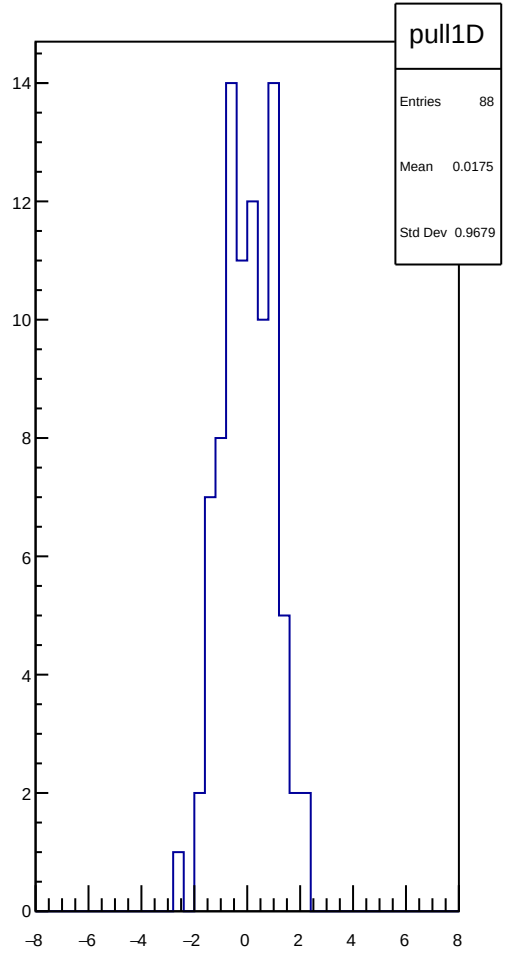

asym_dsr_rms vs run
χ² / ndf 303 / 87
p0 377.7 ± 0.2936
395
390
385
380
375
370
365

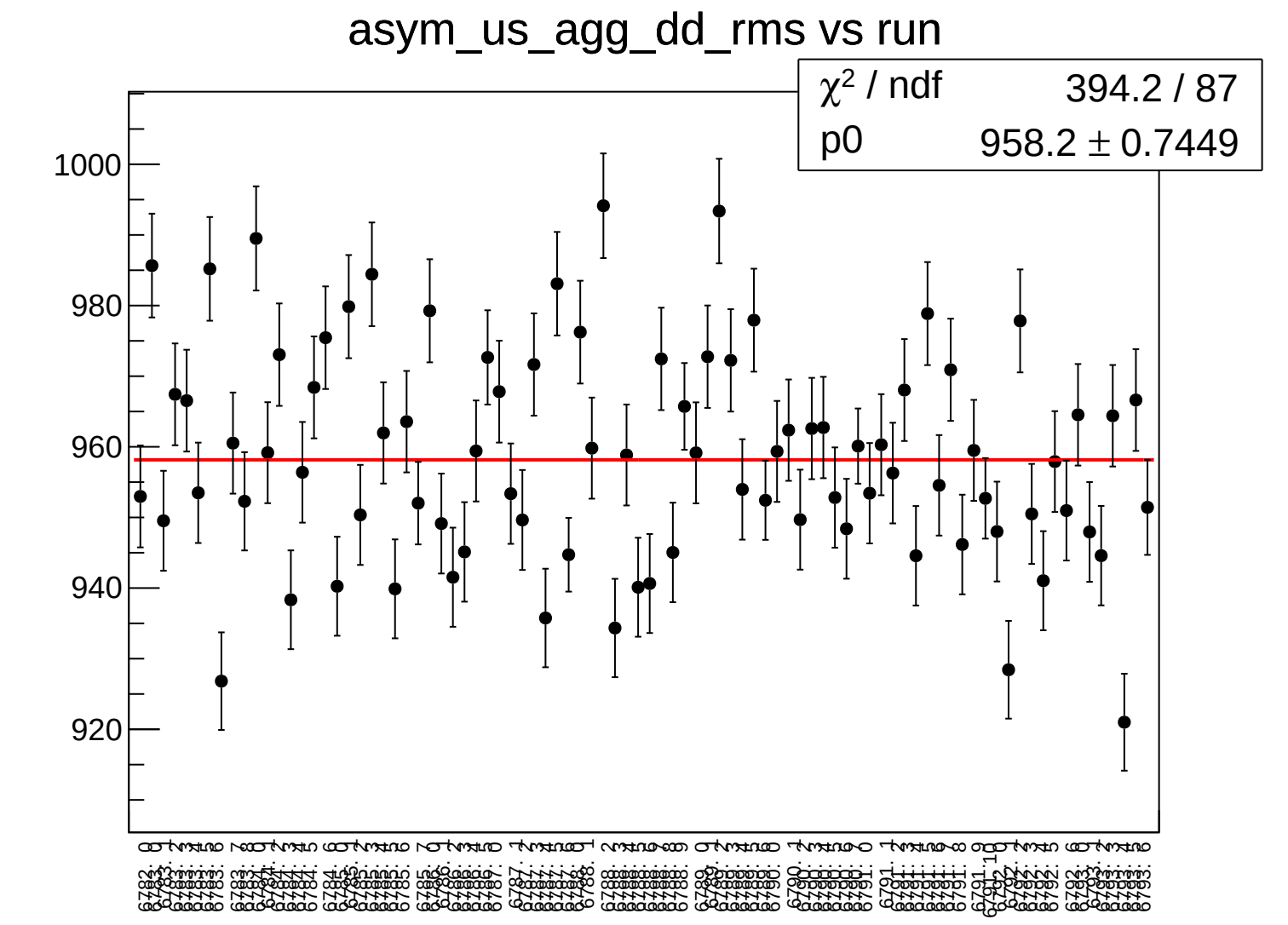

asym_us_agg_avg_mean vs run
χ² / ndf 93.47 / 87
p0 1849 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2641
Std Dev 0
2
1
0
−1
−2

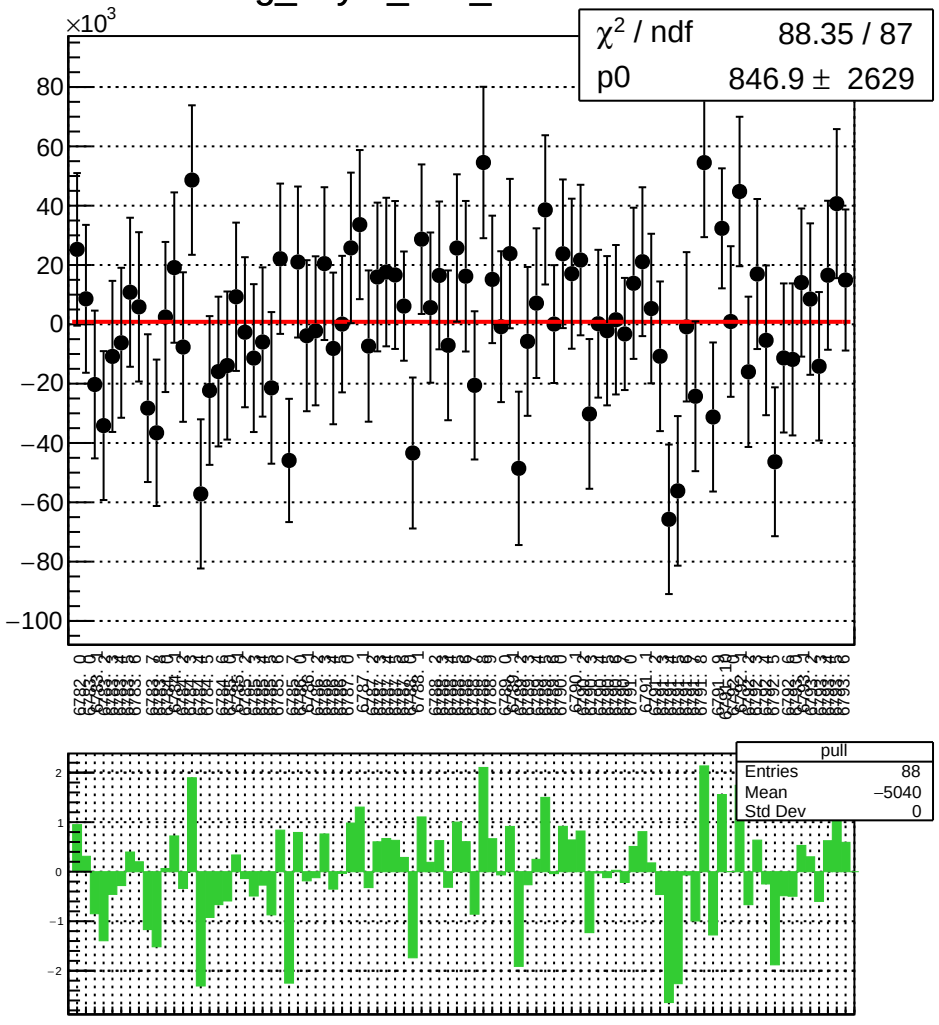

pull1D
Entries 88
Mean −0.001496
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

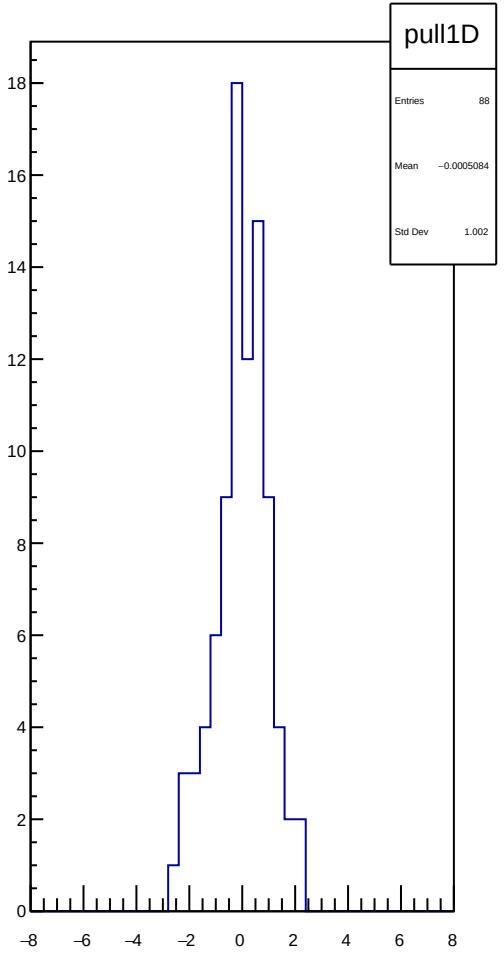

asym_us_agg_avg_rms vs run
χ² / ndf 1418 / 87
p0 1274 ± 0.9904
1400
1350
1300
1250
1200

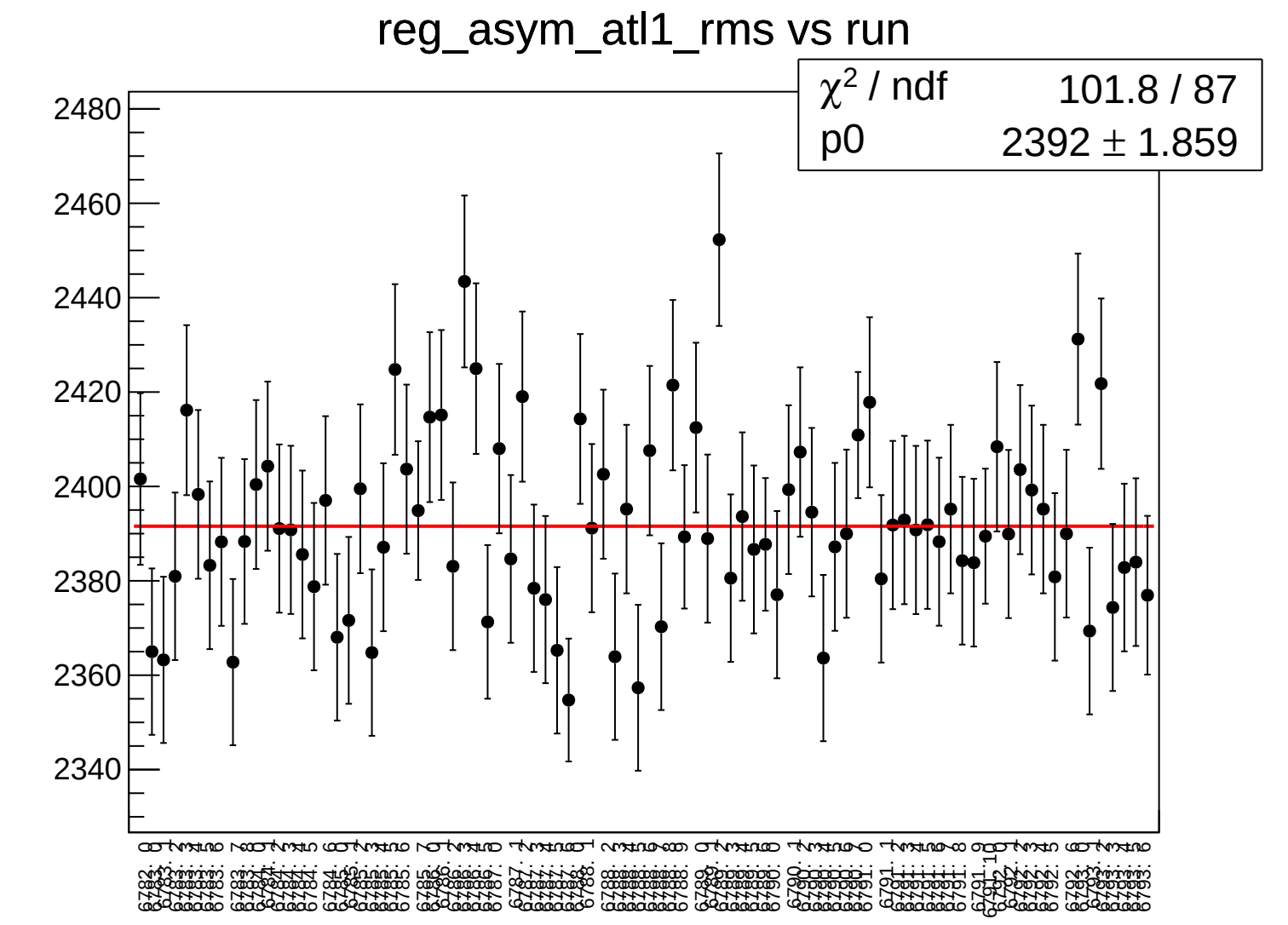

asym_us_agg_dd_mean vs run
χ² / ndf 82.47 / 87
p0 1301 ± 1053
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 151.8
Std Dev 0
2
1
0
−1
−2

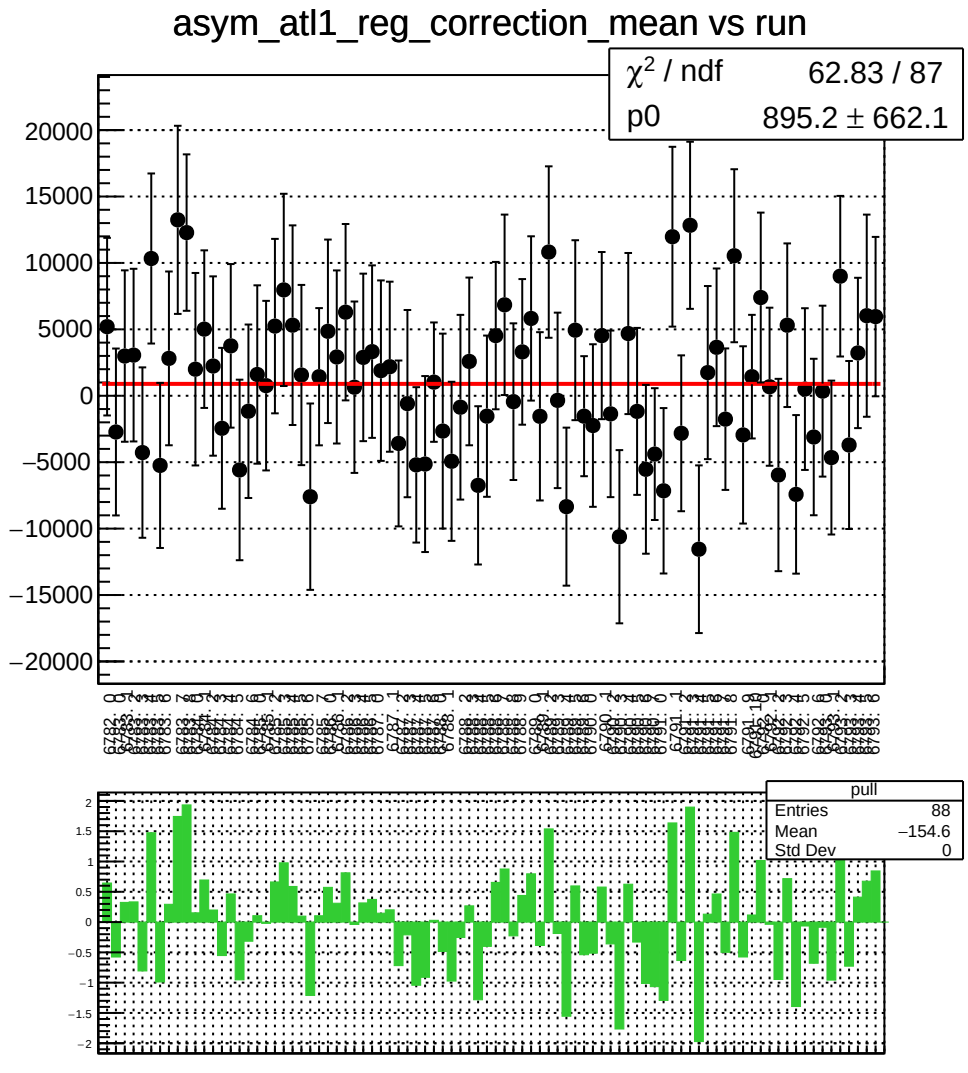

pull1D
Entries 88
Mean 0.0175
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

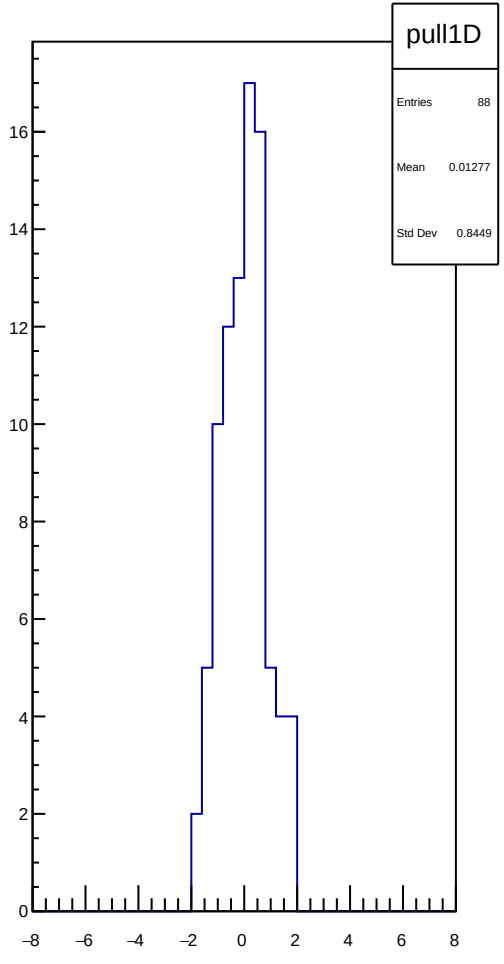

asym_us_agg_dd_rms vs run
χ² / ndf 394.2 / 87
p0 958.2 ± 0.7449
1000
980
960
940
920

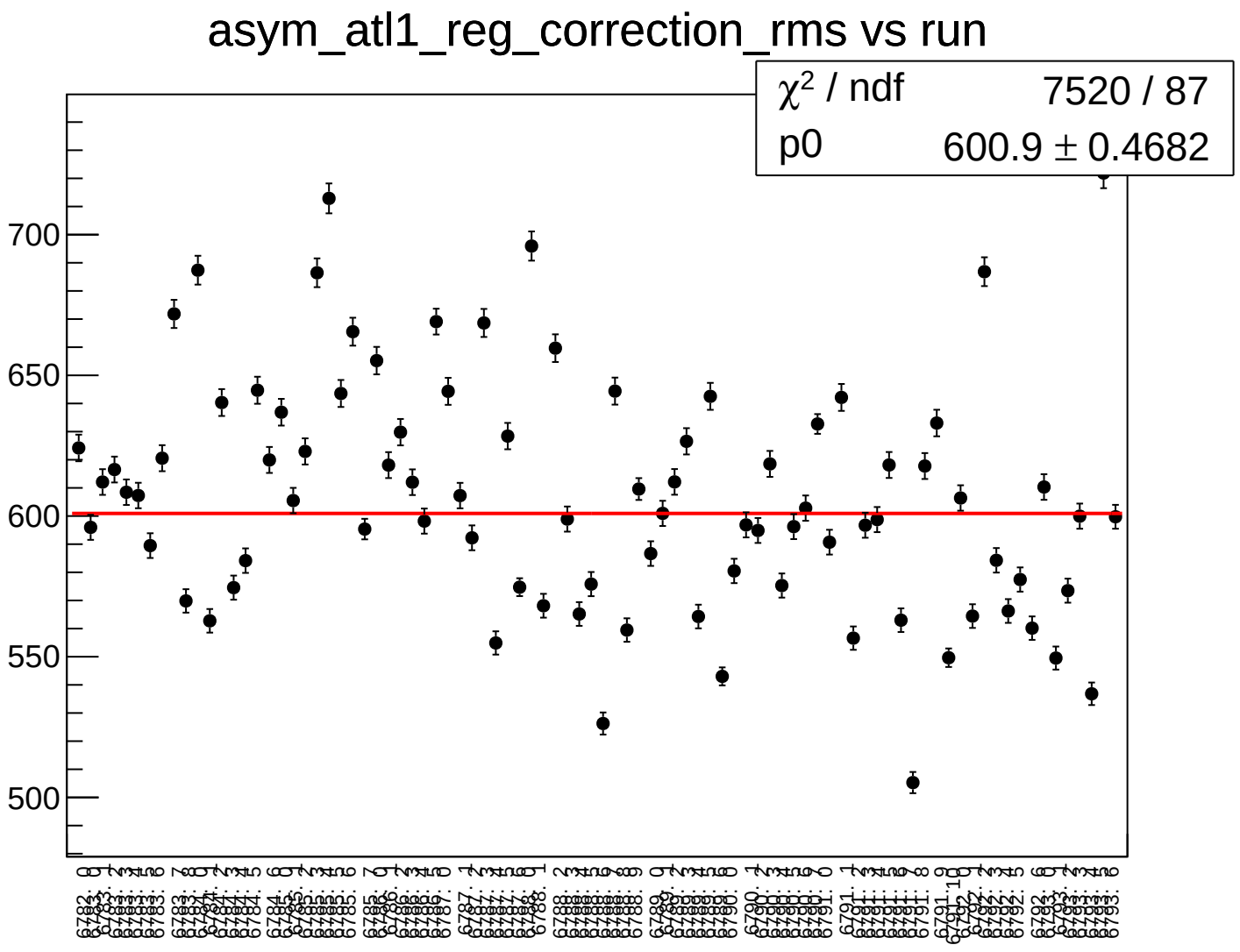

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.35 / 87
p0 846.9 ± 2629
pull
Entries 88
Mean −5040
Std Dev 0

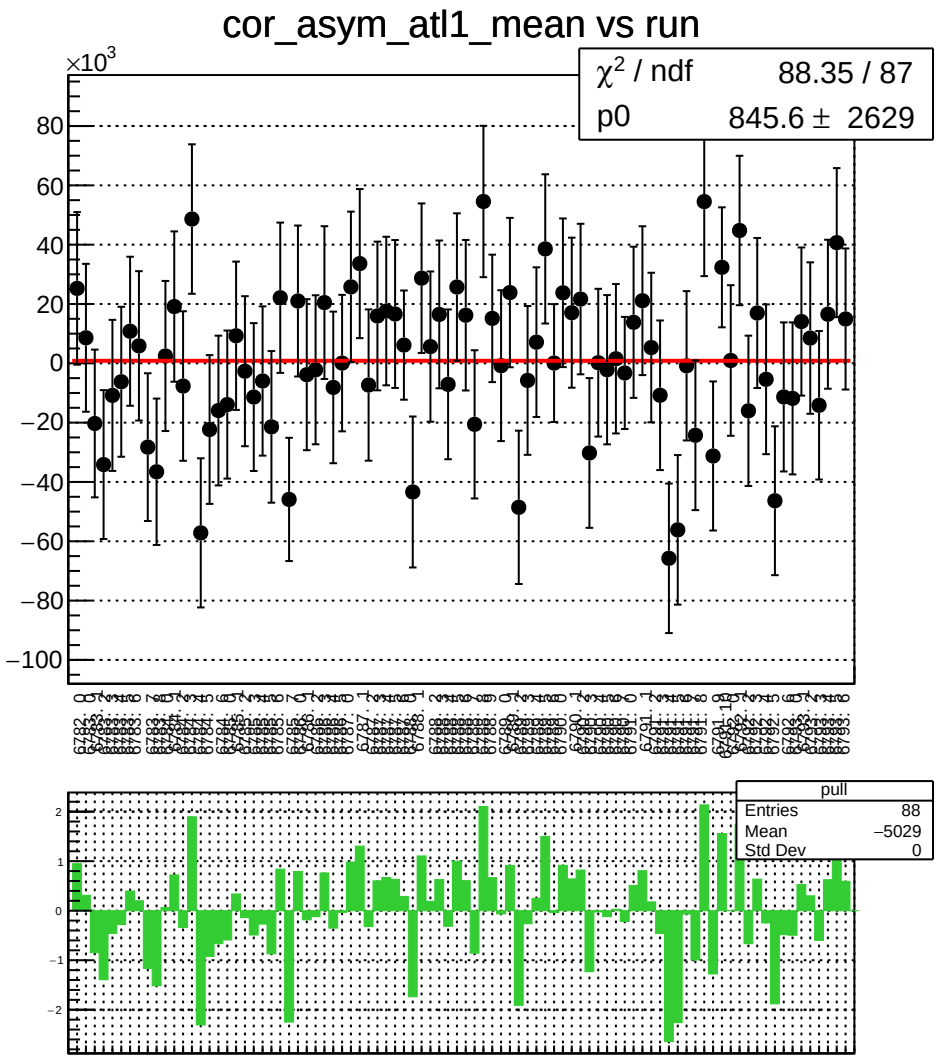

pull1D
Entries 88
Mean −0.0005084
Std Dev 1.002

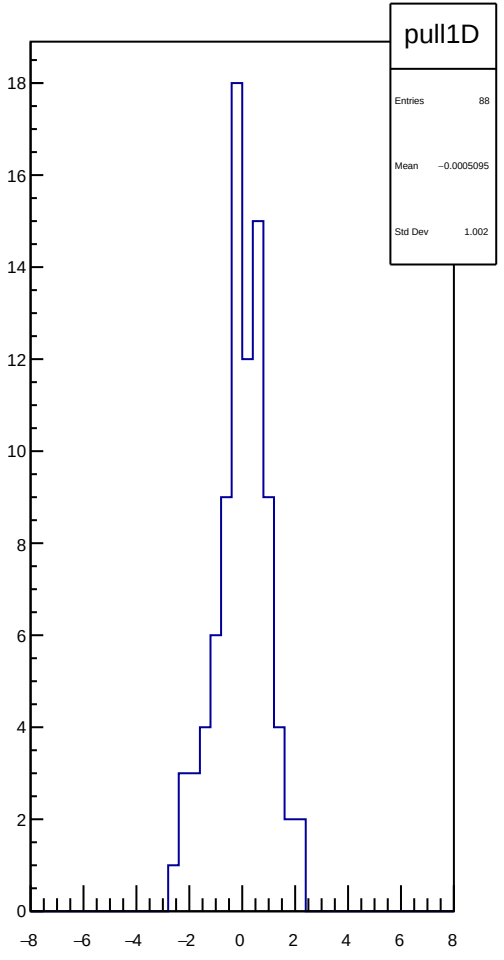

reg_asym_atl1_rms vs run
χ² / ndf 101.8 / 87
p0 2392 ± 1.859
2480
2460
2440
2420
2400
2380
2360
2340

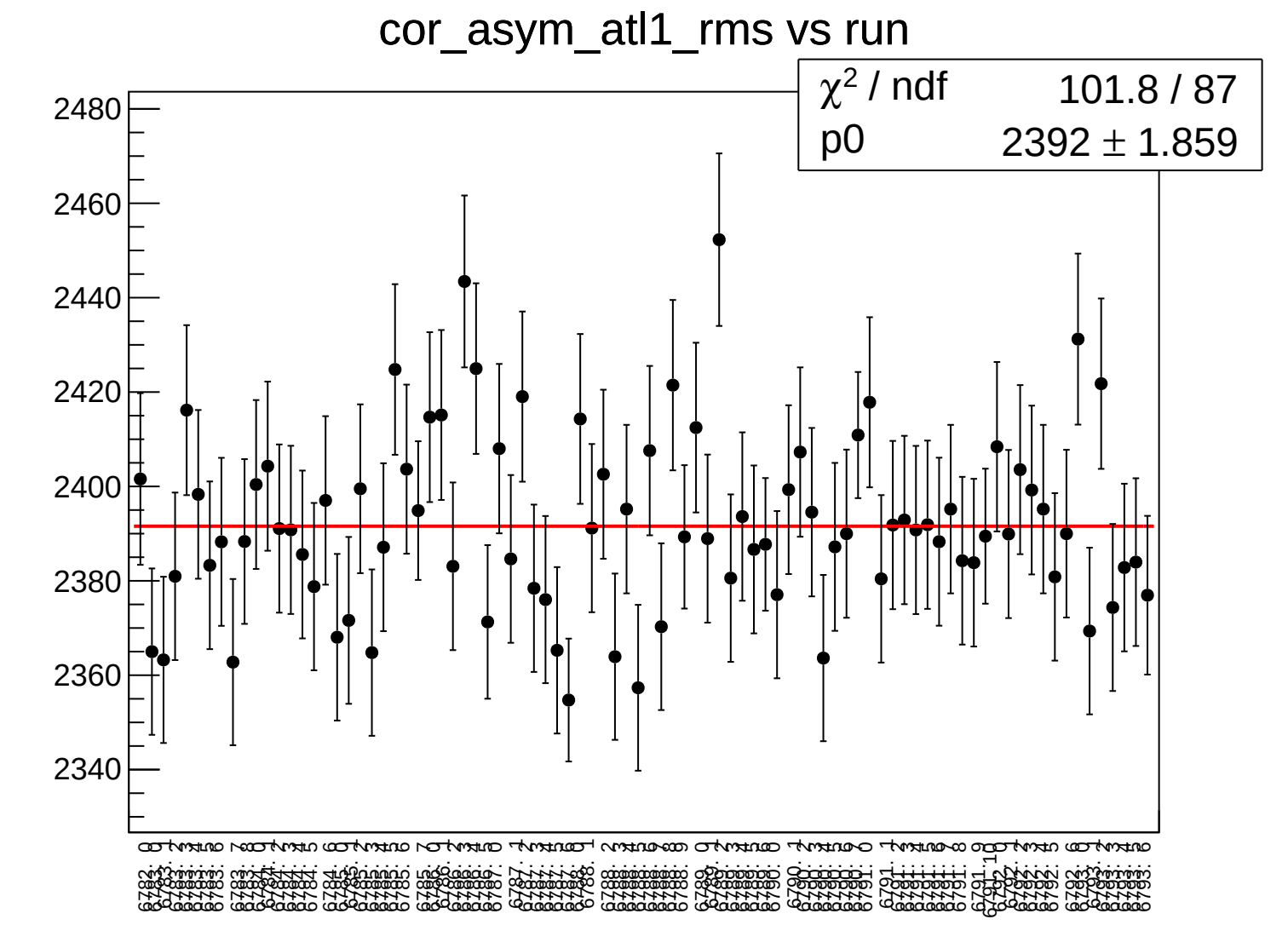

asym_atl1_reg_correction_mean vs run
χ² / ndf 62.83 / 87
p0 895.2 ± 662.1
pull
Entries 88
Mean −154.6
Std Dev 0

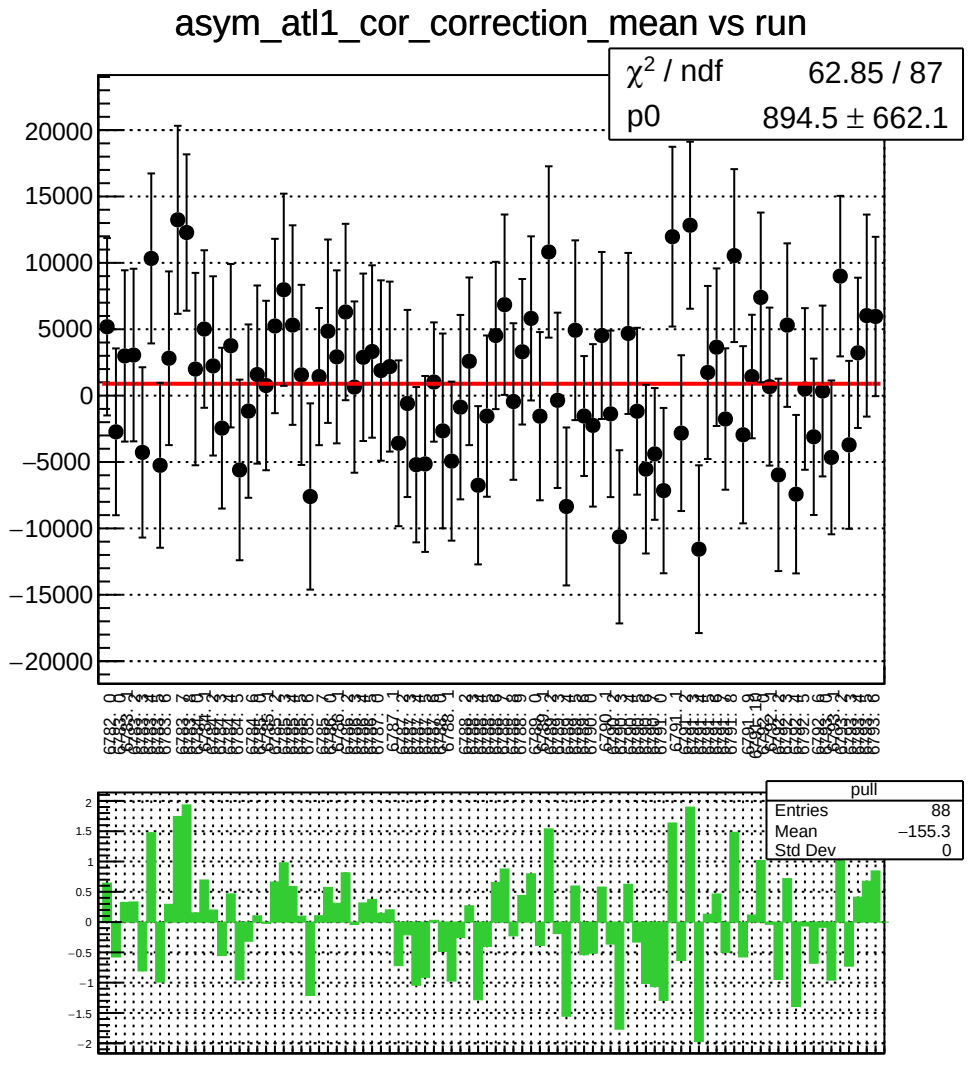

pull1D
Entries 88
Mean 0.01277
Std Dev 0.8449

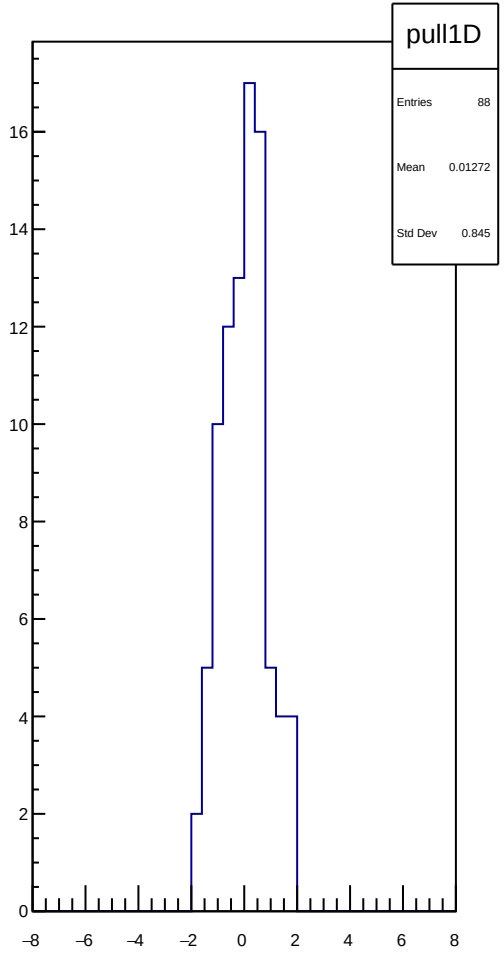

asym_atl1_reg_correction_rms vs run
χ² / ndf 7520 / 87
p0 600.9 ± 0.4682
700
650
600
550
500

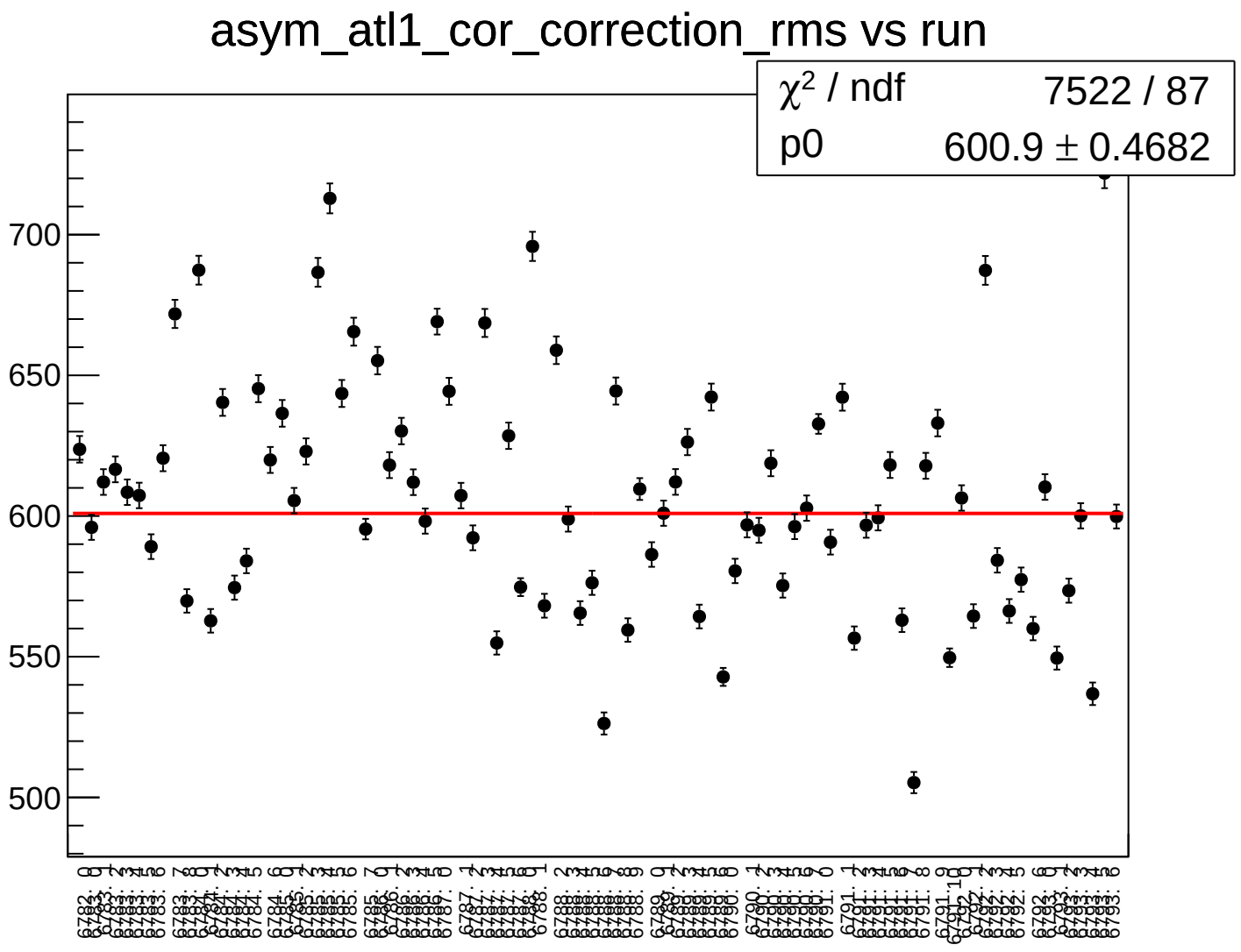

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.35 / 87
p0 845.6 ± 2629
pull
Entries 88
Mean −5029
Std Dev 0

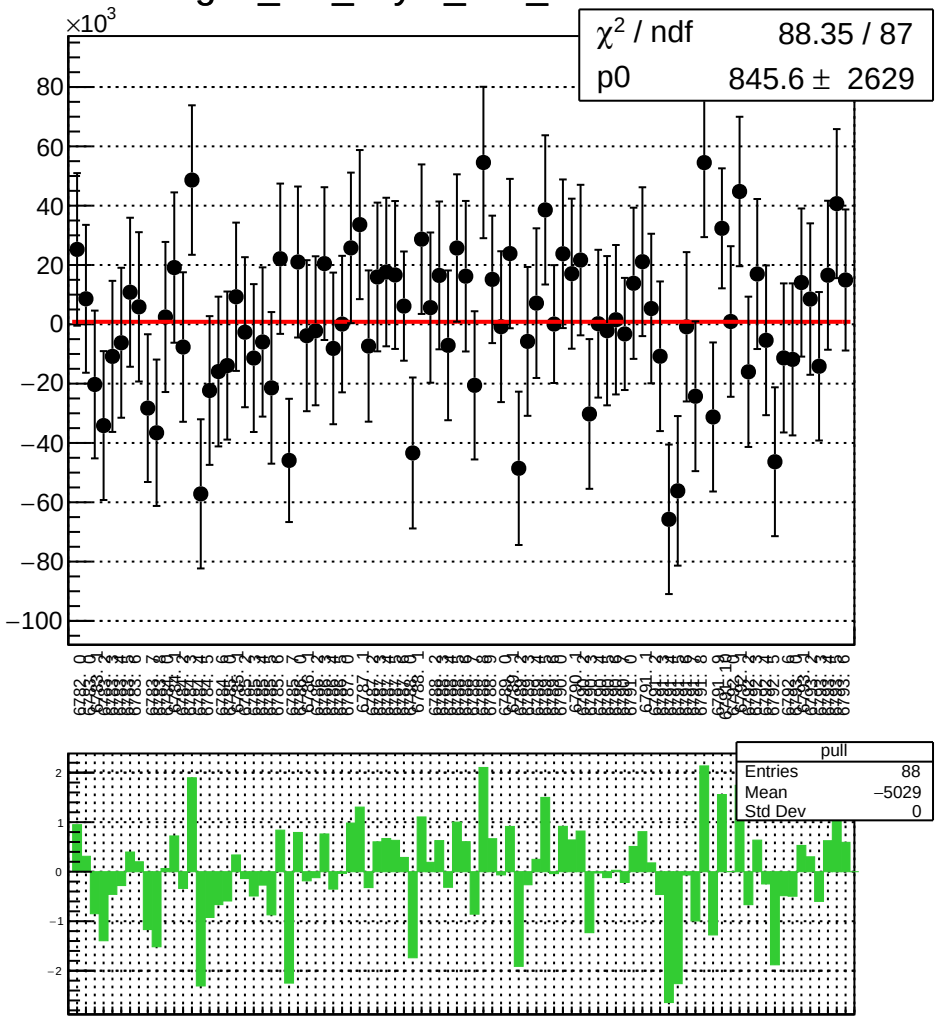

pull1D
Entries 88
Mean −0.0005095
Std Dev 1.002

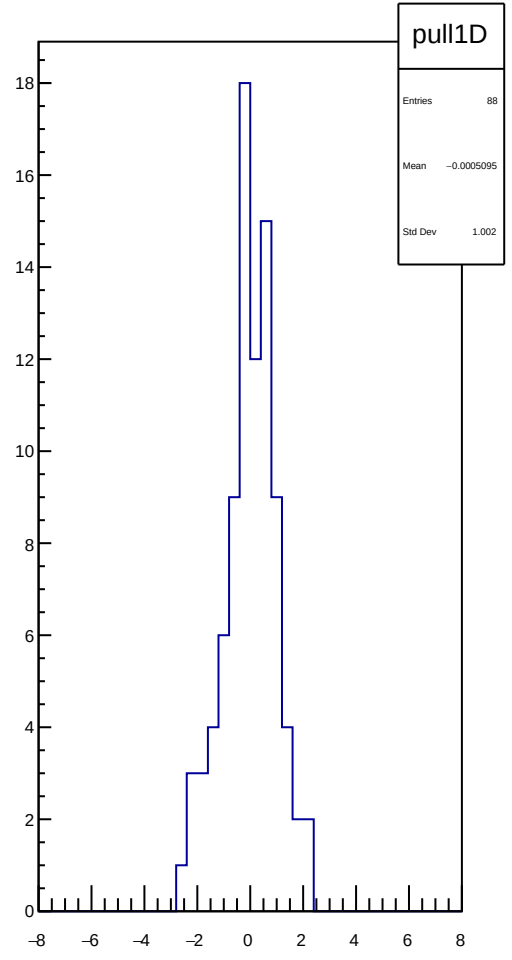

cor_asym_atl1_rms vs run
χ² / ndf 101.8 / 87
p0 2392 ± 1.859
2480
2460
2440
2420
2400
2380
2360
2340

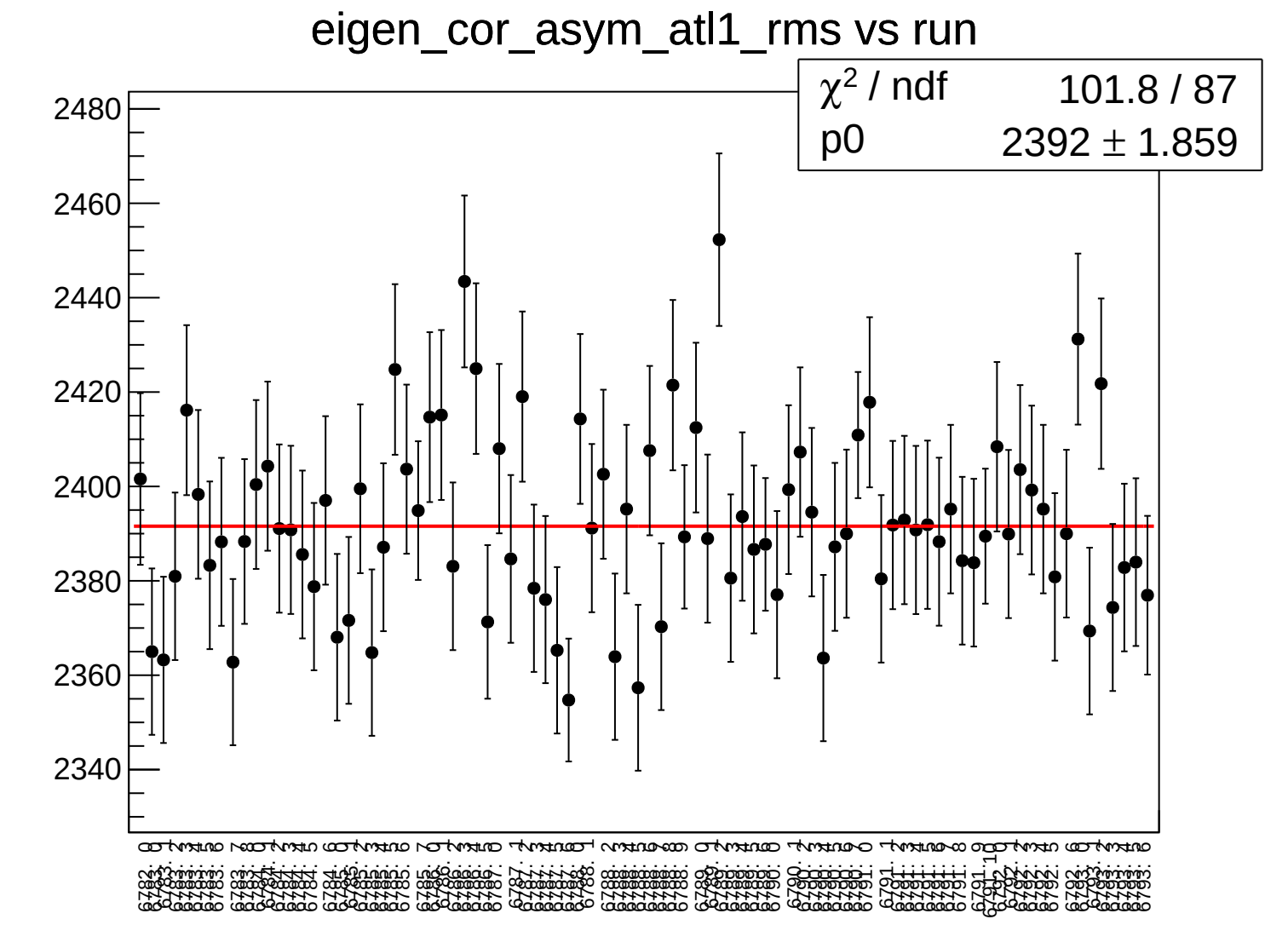

asym_atl1_cor_correction_mean vs run
χ² / ndf 62.85 / 87
p0 894.5 ± 662.1
pull
Entries 88
Mean −155.3
Std Dev 0

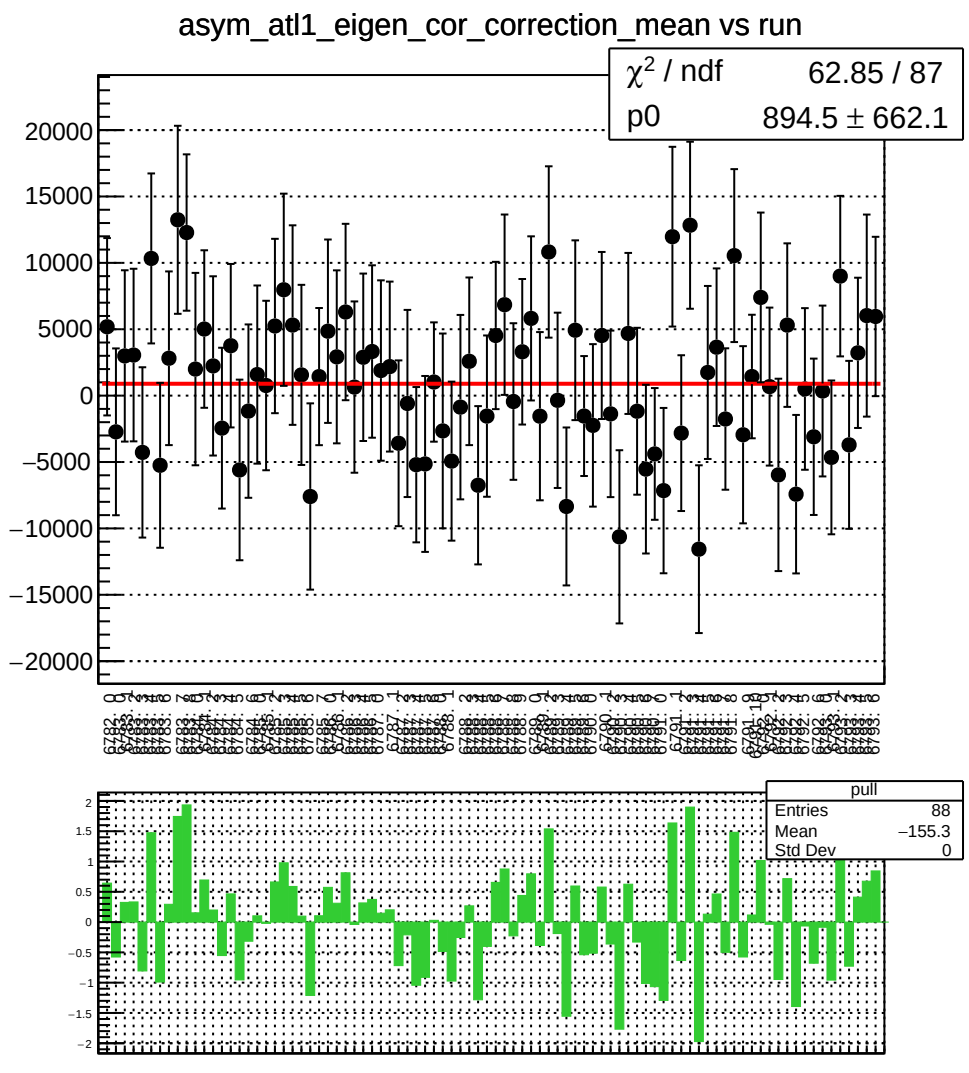

pull1D
Entries 88
Mean 0.01272
Std Dev 0.845

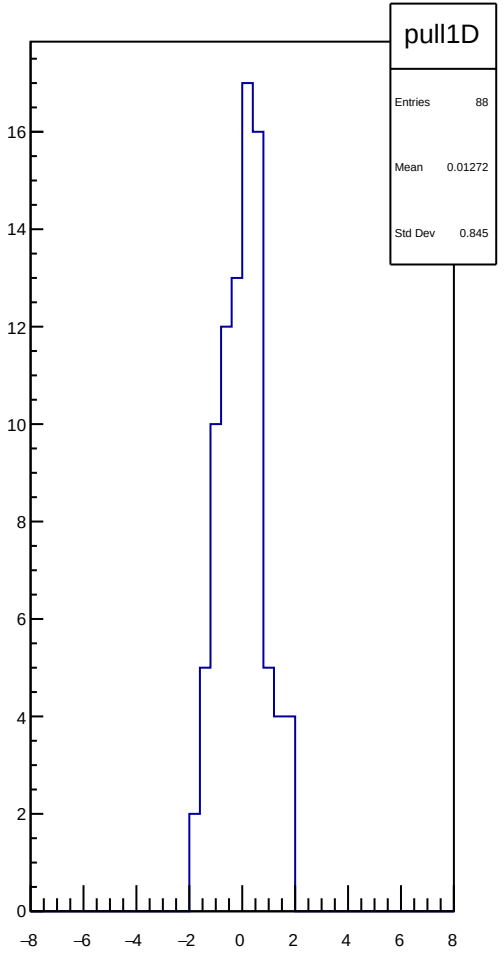

asym_atl1_cor_correction_rms vs run
χ² / ndf 7522 / 87
p0 600.9 ± 0.4682
700
650
600
550
500

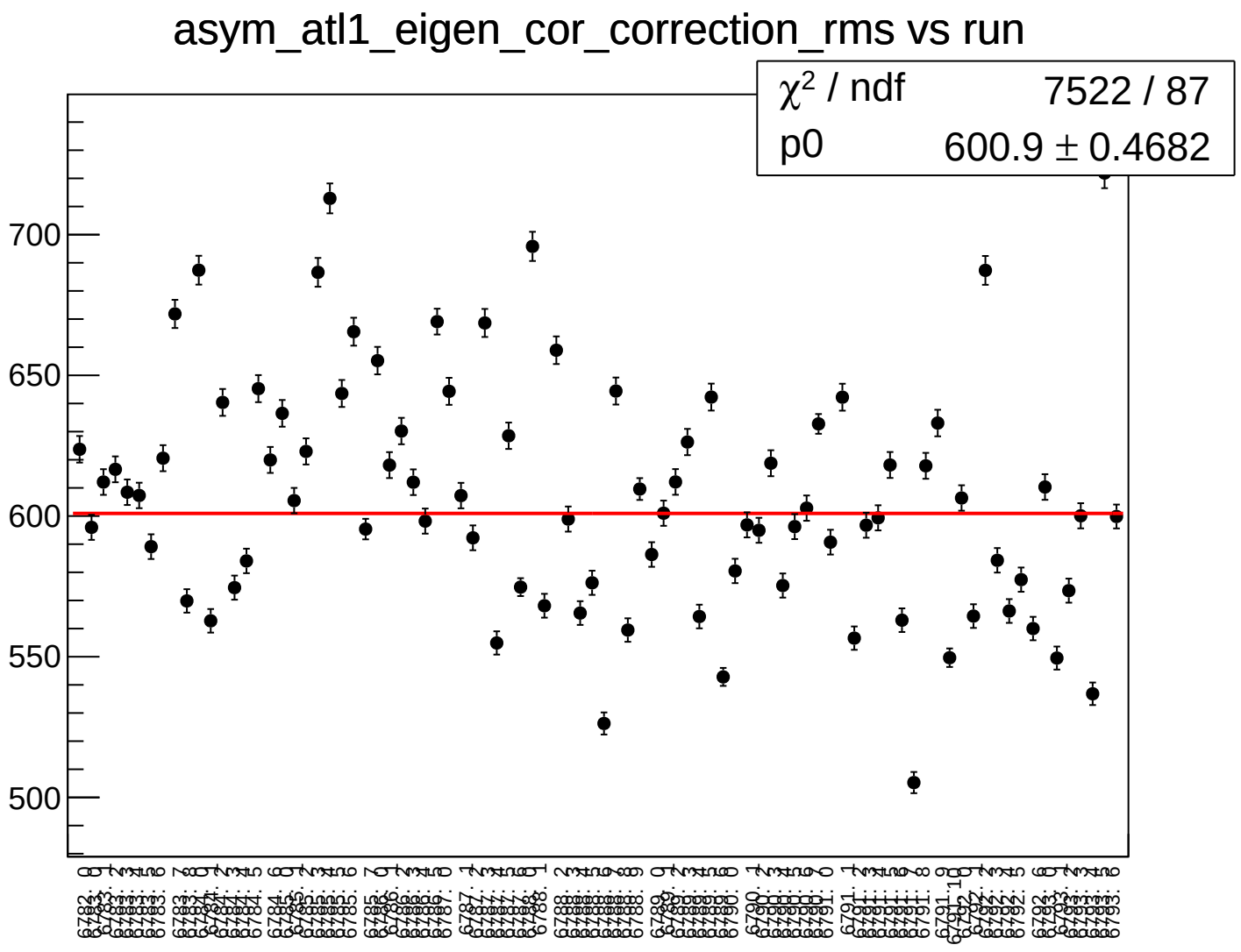

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.35 / 87
p0 845.6 ± 2629
pull
Entries 88
Mean −5029
Std Dev 0

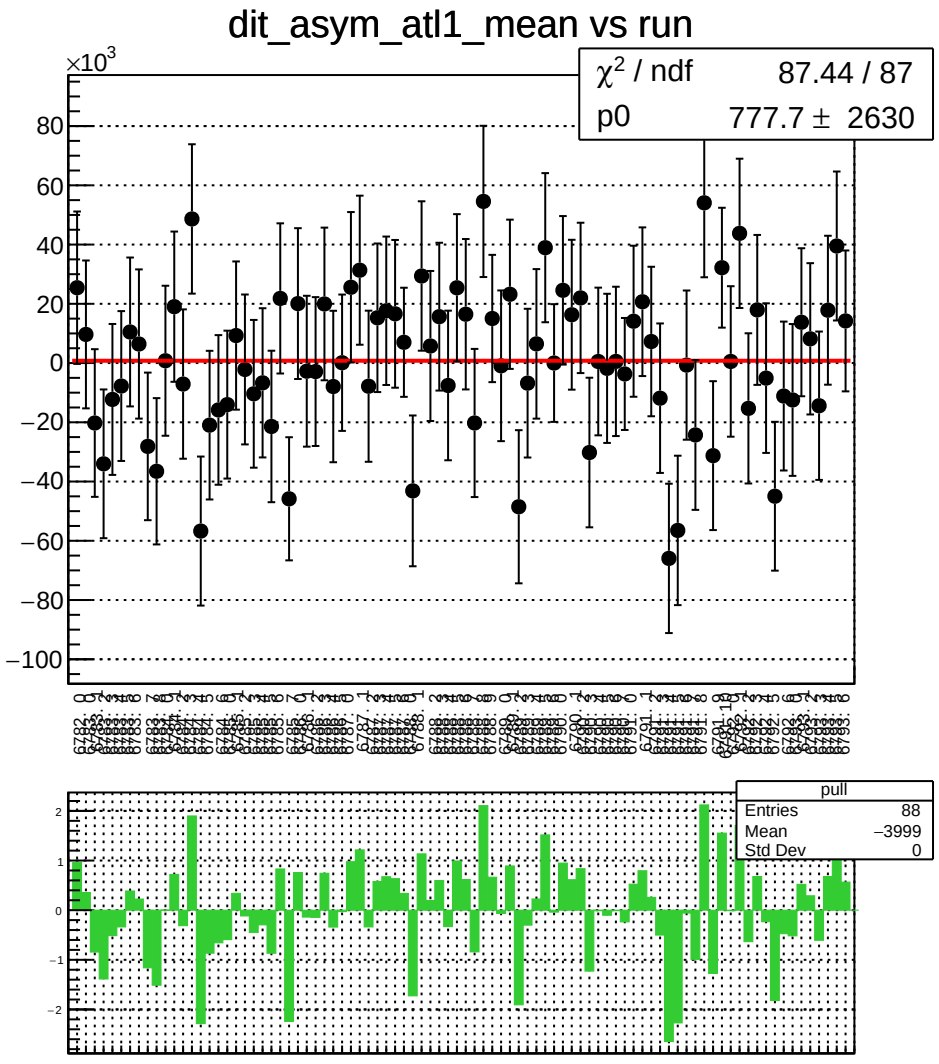

pull1D
Entries 88
Mean −0.0005095
Std Dev 1.002

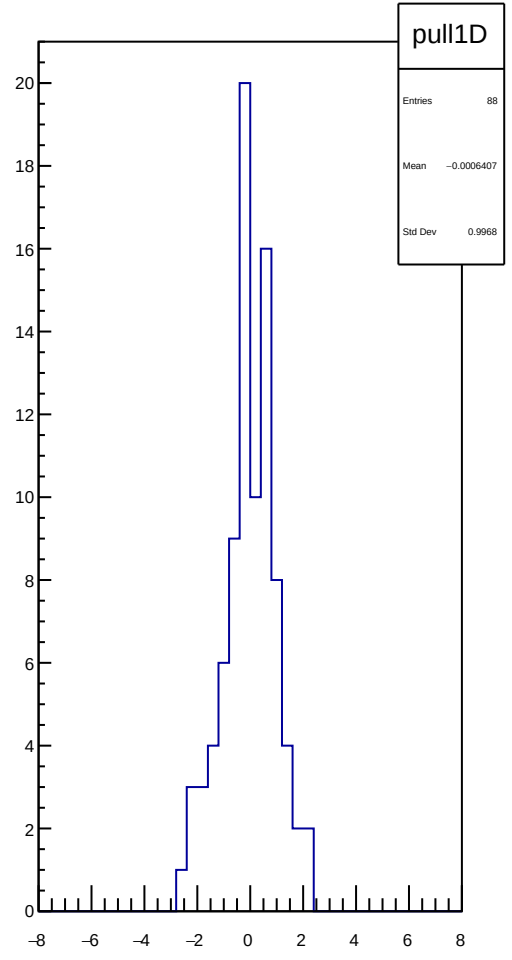

eigen_cor_asym_atl1_rms vs run
χ² / ndf 101.8 / 87
p0 2392 ± 1.859
2480
2460
2440
2420
2400
2380
2360
2340

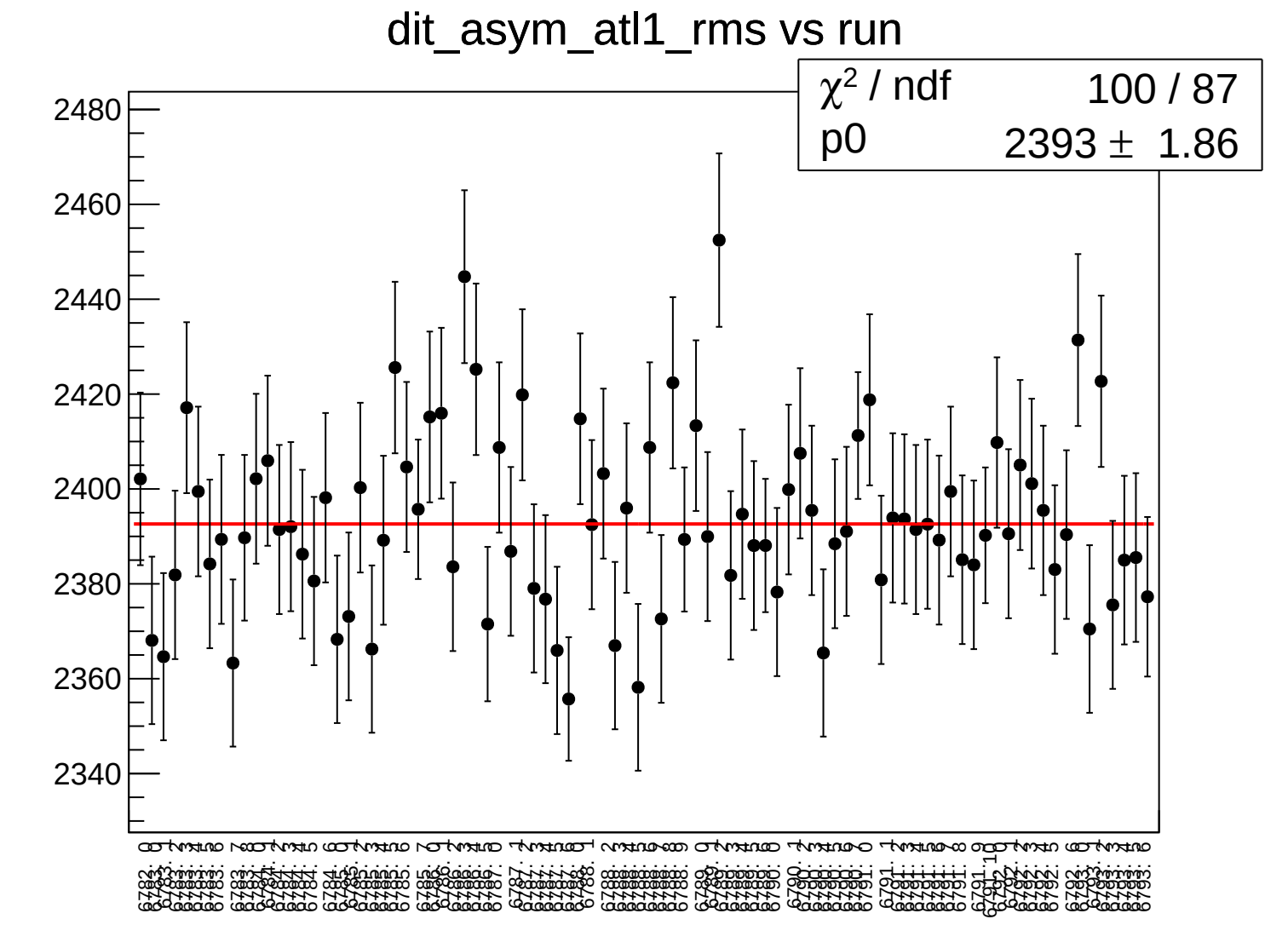

asym_atl1_eigen_cor_correction_mean vs run
χ^2 / ndf 62.85 / 87
p0 894.5 ± 662.1
pull
Entries 88
Mean −155.3
Std Dev 0

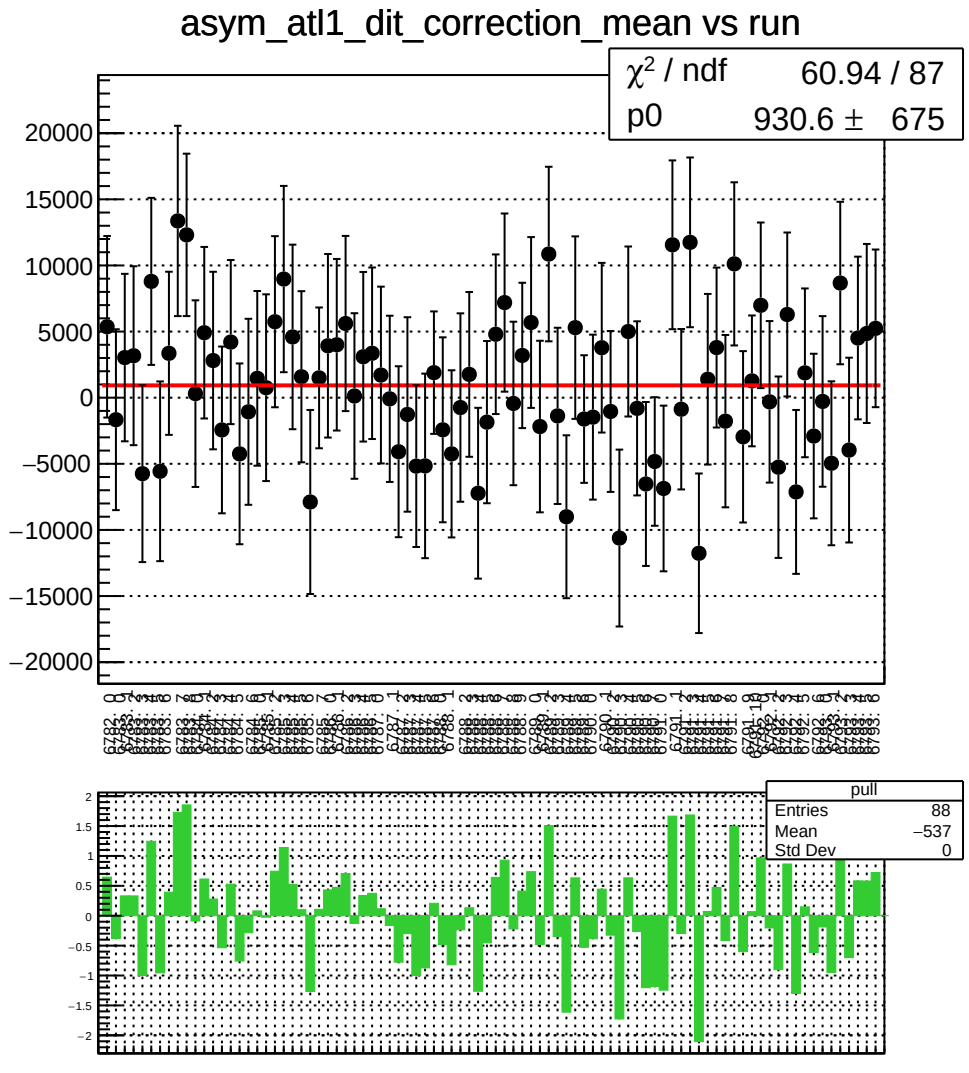

pull1D
Entries 88
Mean 0.01272
Std Dev 0.845

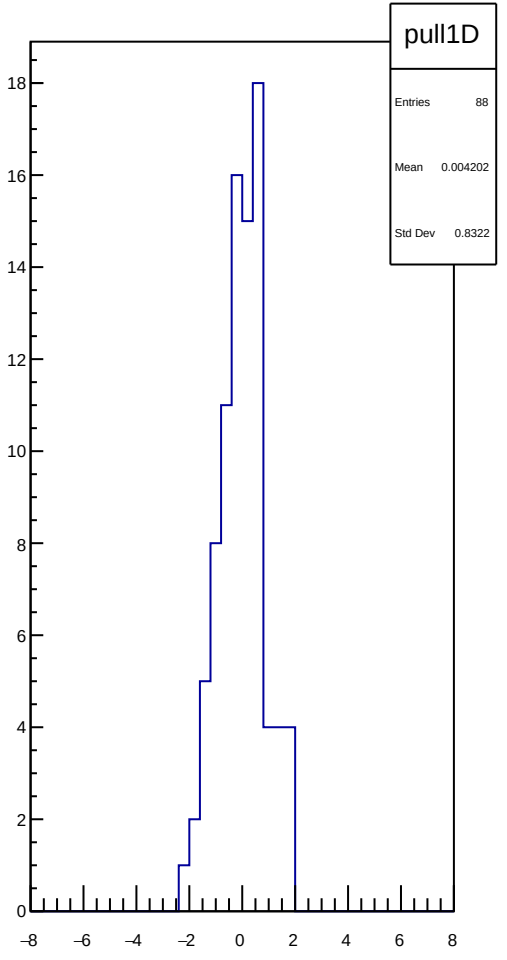

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 7522 / 87
p0 600.9 ± 0.4682
700
650
600
550
500

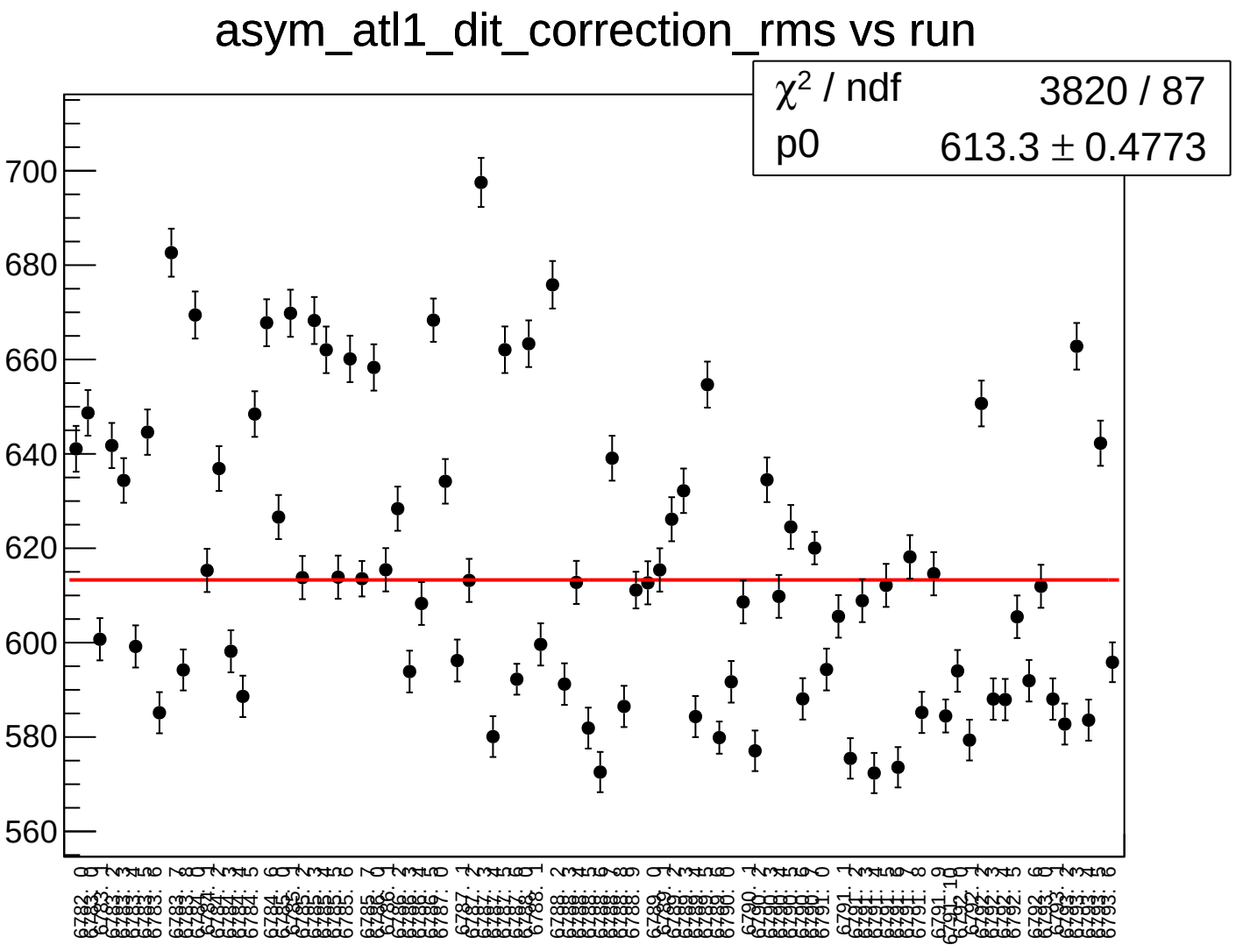

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 87.44 / 87
p0 777.7 ± 2630
pull
Entries 88
Mean −3999
Std Dev 0

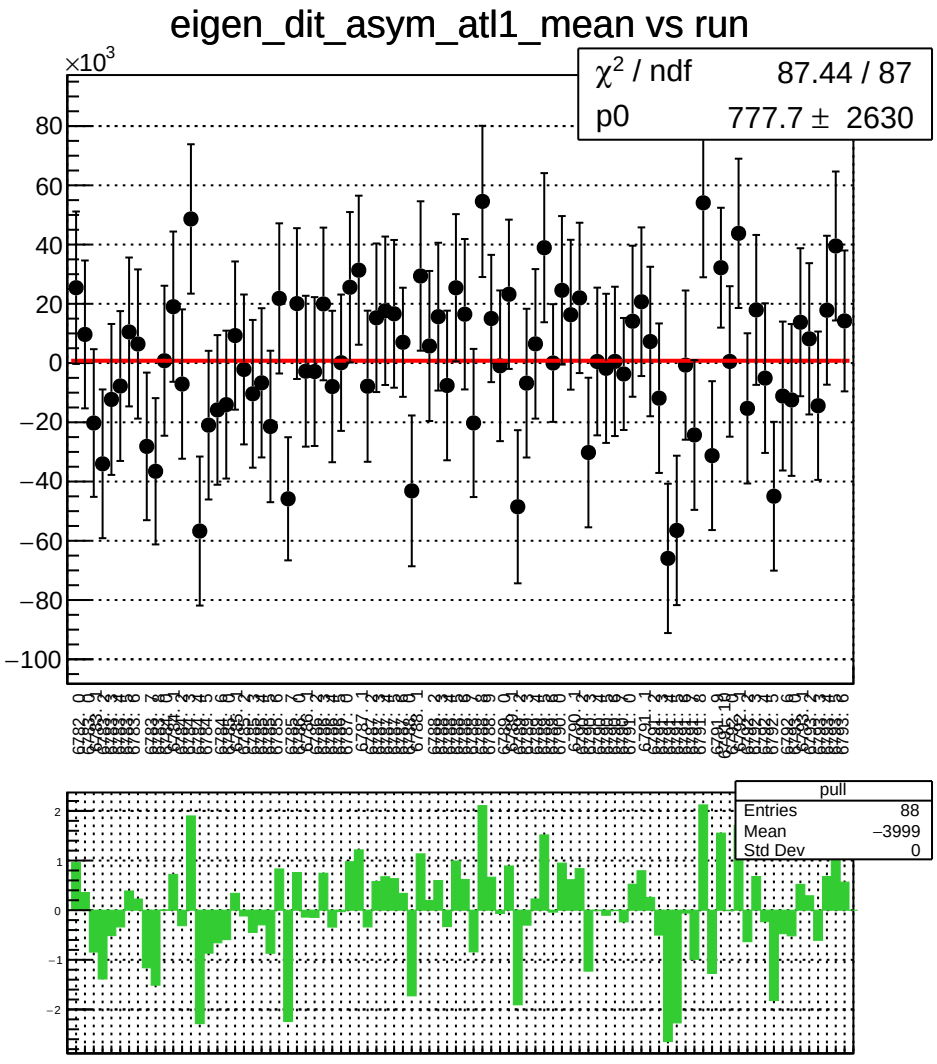

pull1D
Entries 88
Mean −0.0006407
Std Dev 0.9968

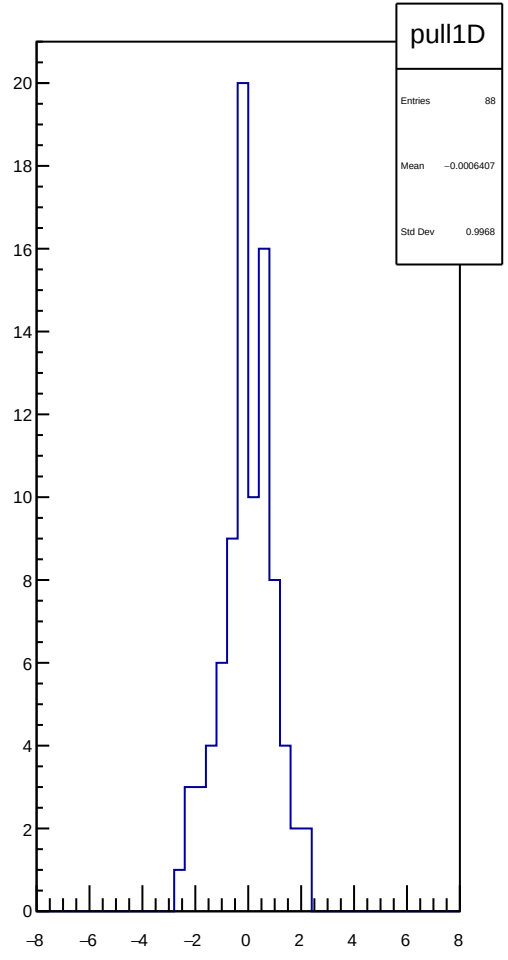

dit_asym_atl1_rms vs run
χ² / ndf 100 / 87
p0 2393 ± 1.86
2480
2460
2440
2420
2400
2380
2360
2340

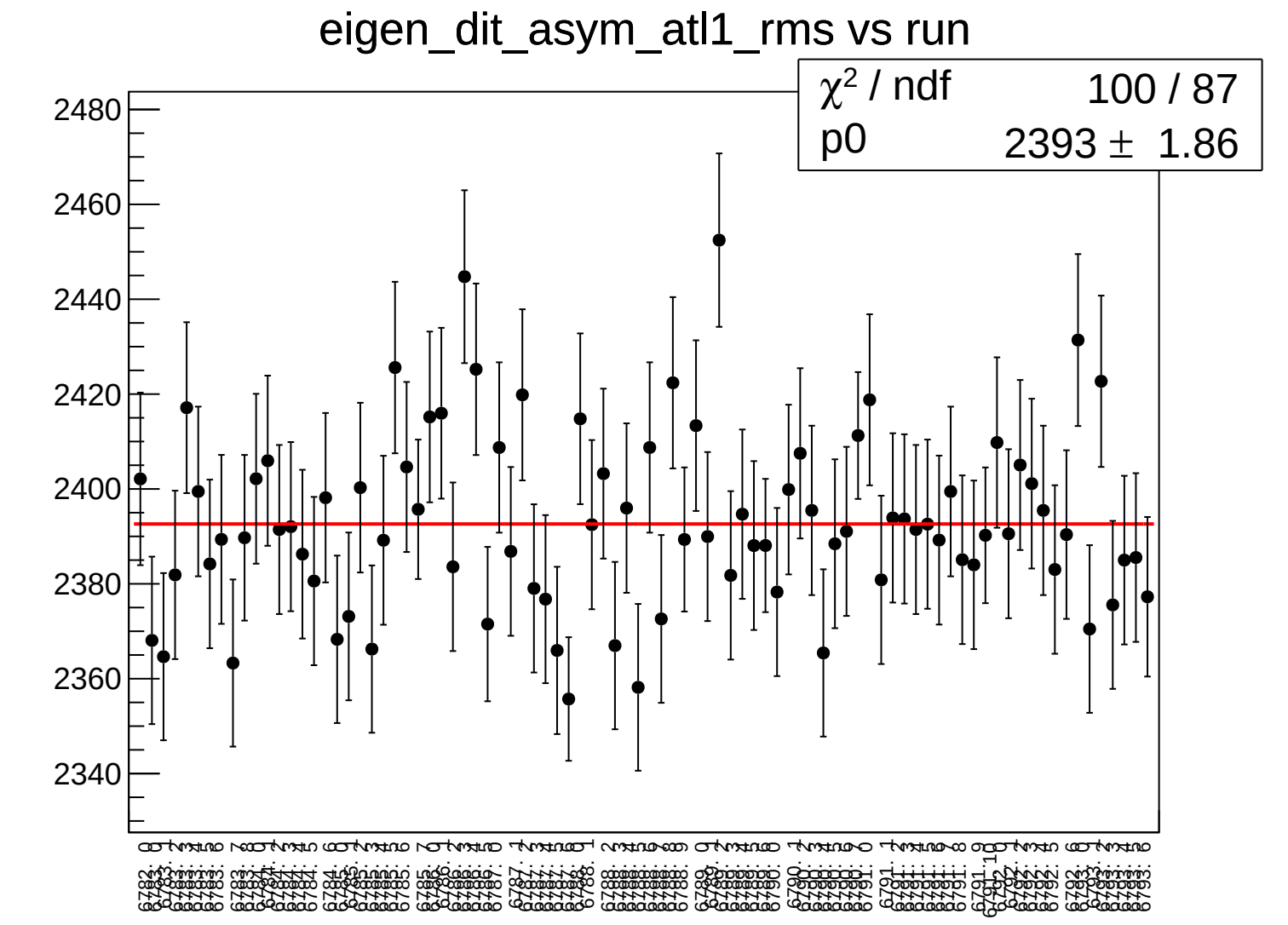

asym_atl1_dit_correction_mean vs run
χ² / ndf 60.94 / 87
p0 930.6 ± 675
pull
Entries 88
Mean −537
Std Dev 0

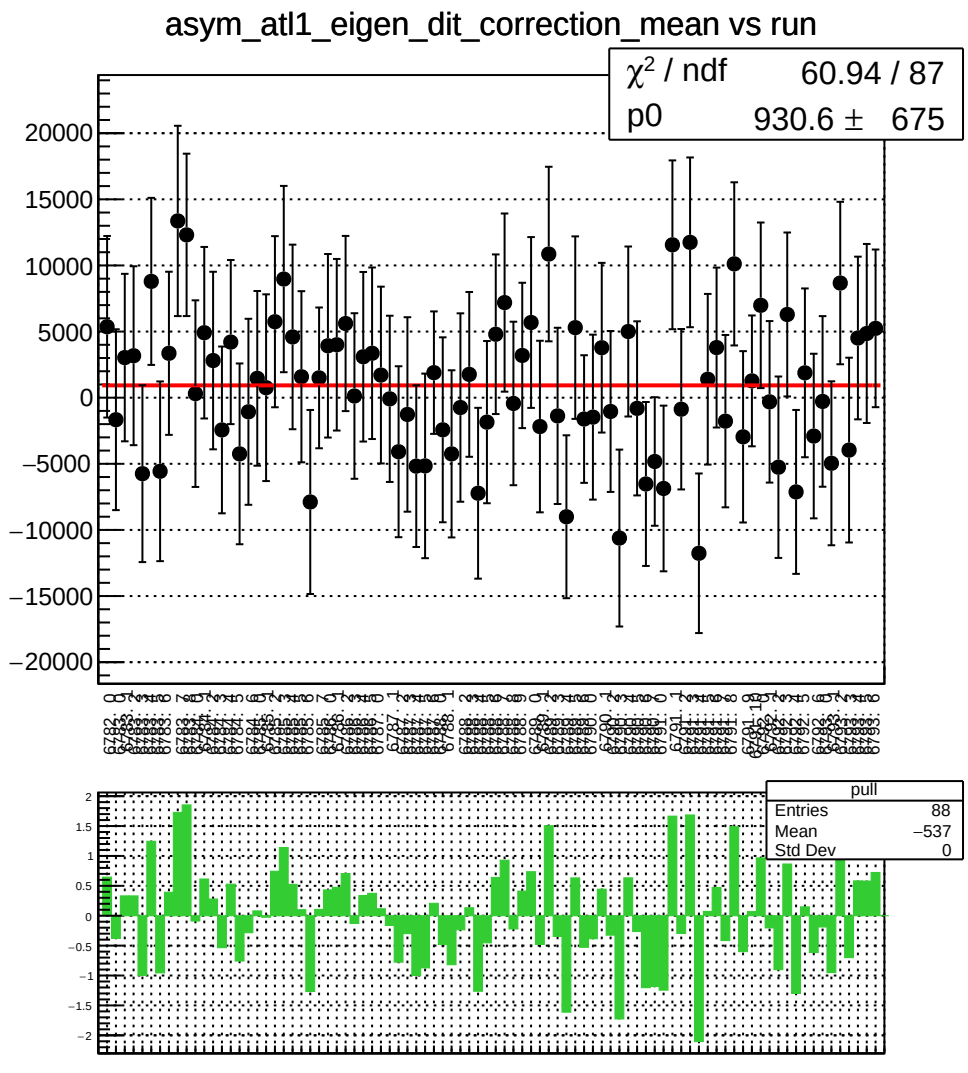

pull1D
Entries 88
Mean 0.004202
Std Dev 0.8322

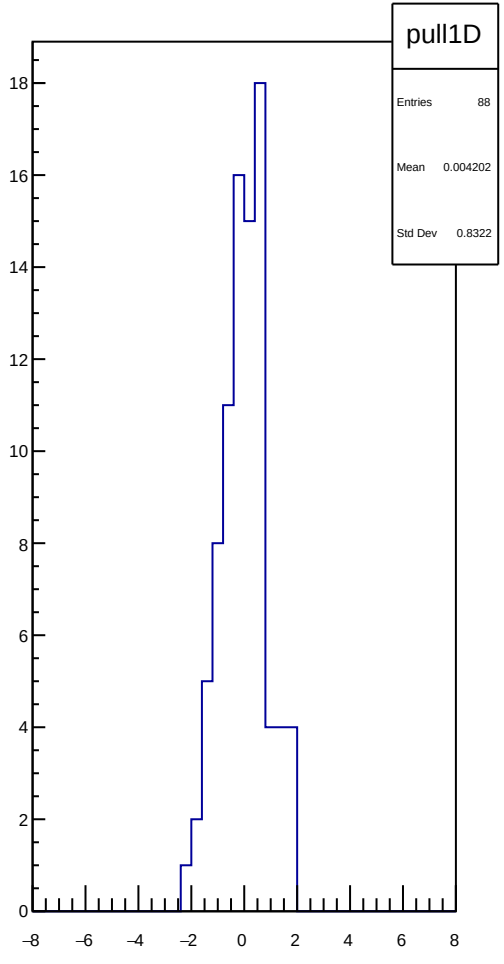

asym_atl1_dit_correction_rms vs run
χ² / ndf 3820 / 87
p0 613.3 ± 0.4773
700
680
660
640
620
600
580
560

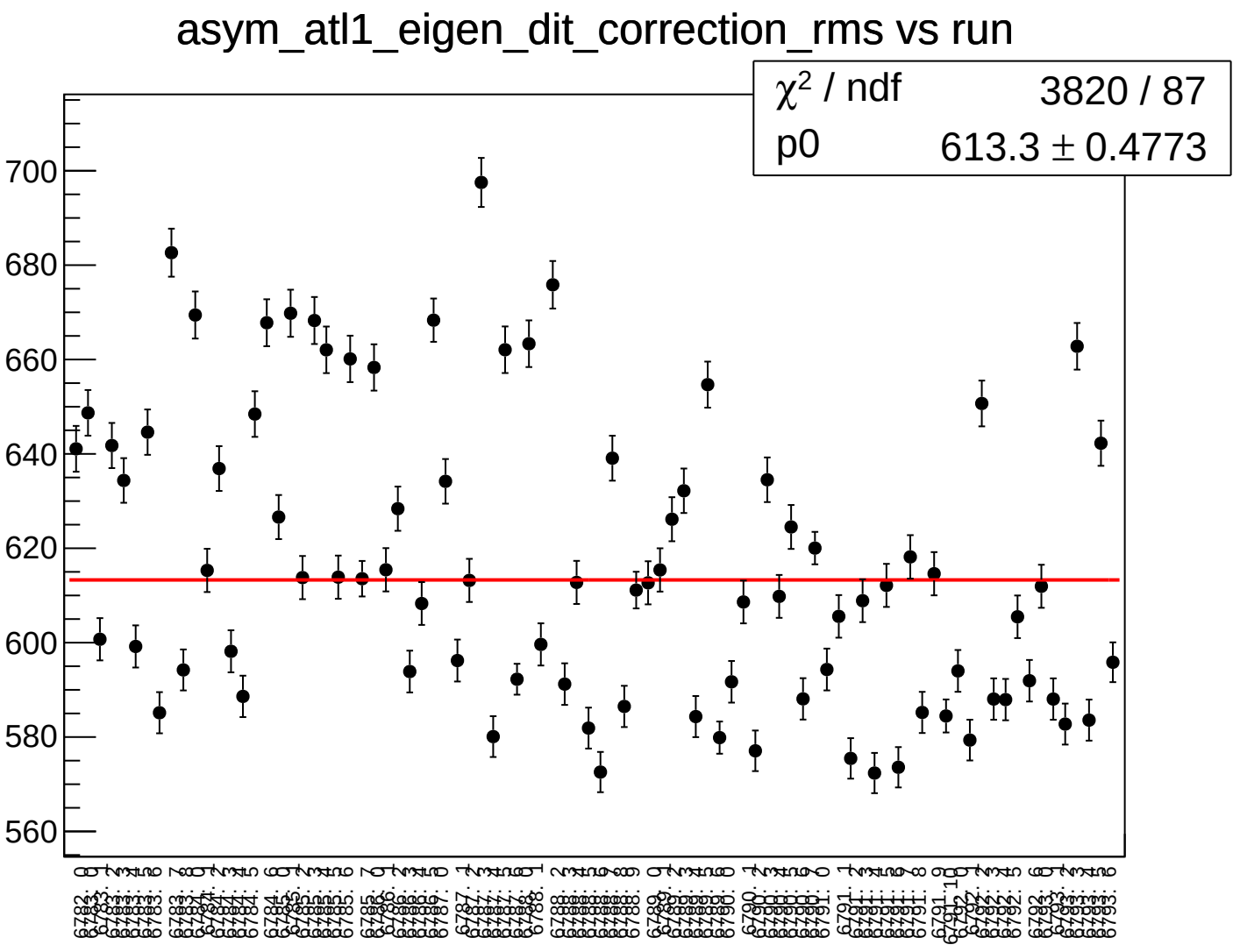

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 87.44 / 87
p0 777.7 ± 2630
pull
Entries 88
Mean −3999
Std Dev 0

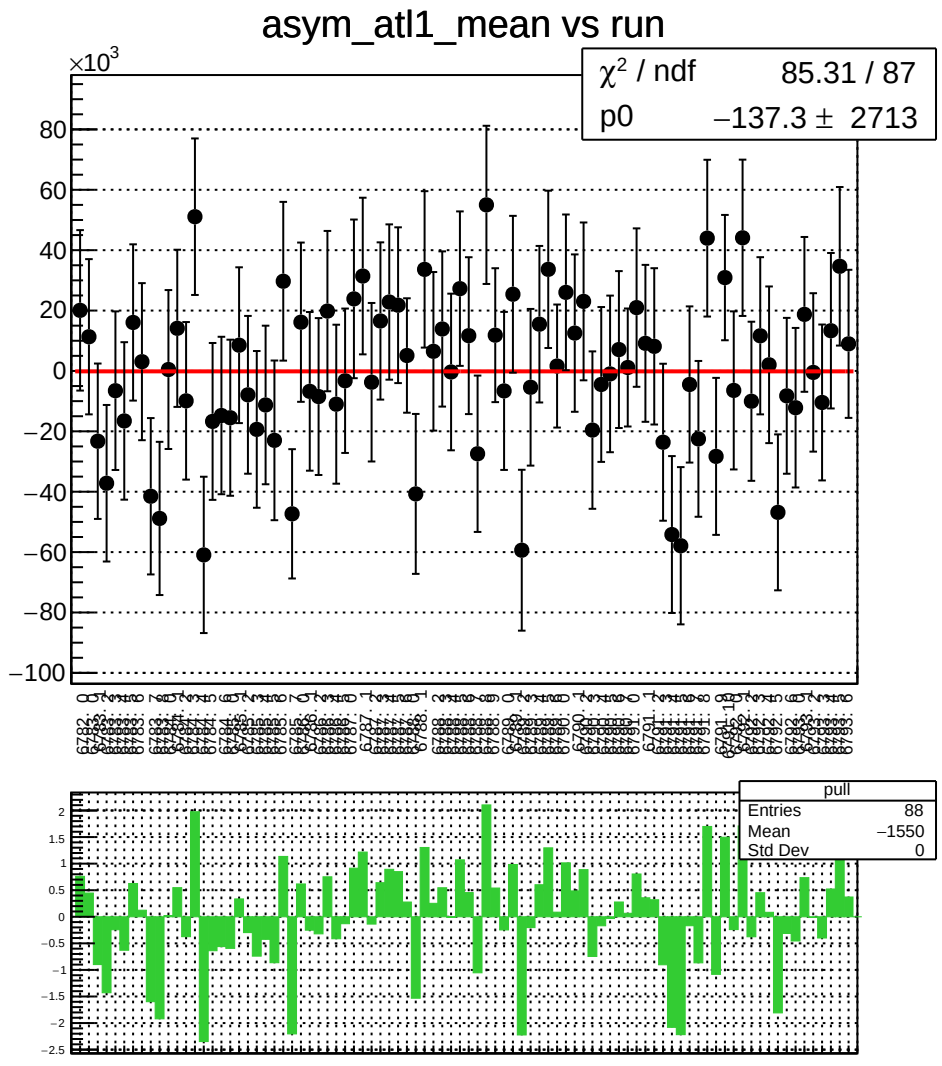

pull1D
Entries 88
Mean −0.0006407
Std Dev 0.9968

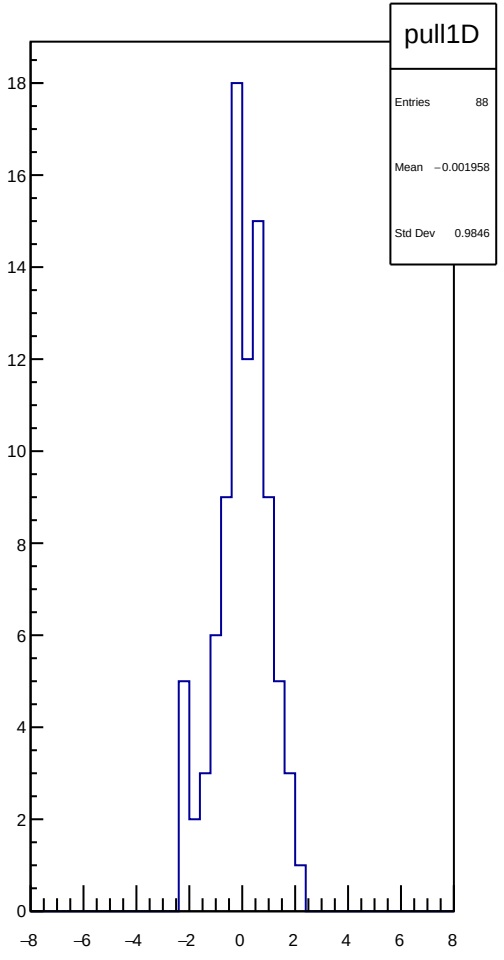

eigen_dit_asym_atl1_rms vs run
χ² / ndf 100 / 87
p0 2393 ± 1.86
2480
2460
2440
2420
2400
2380
2360
2340

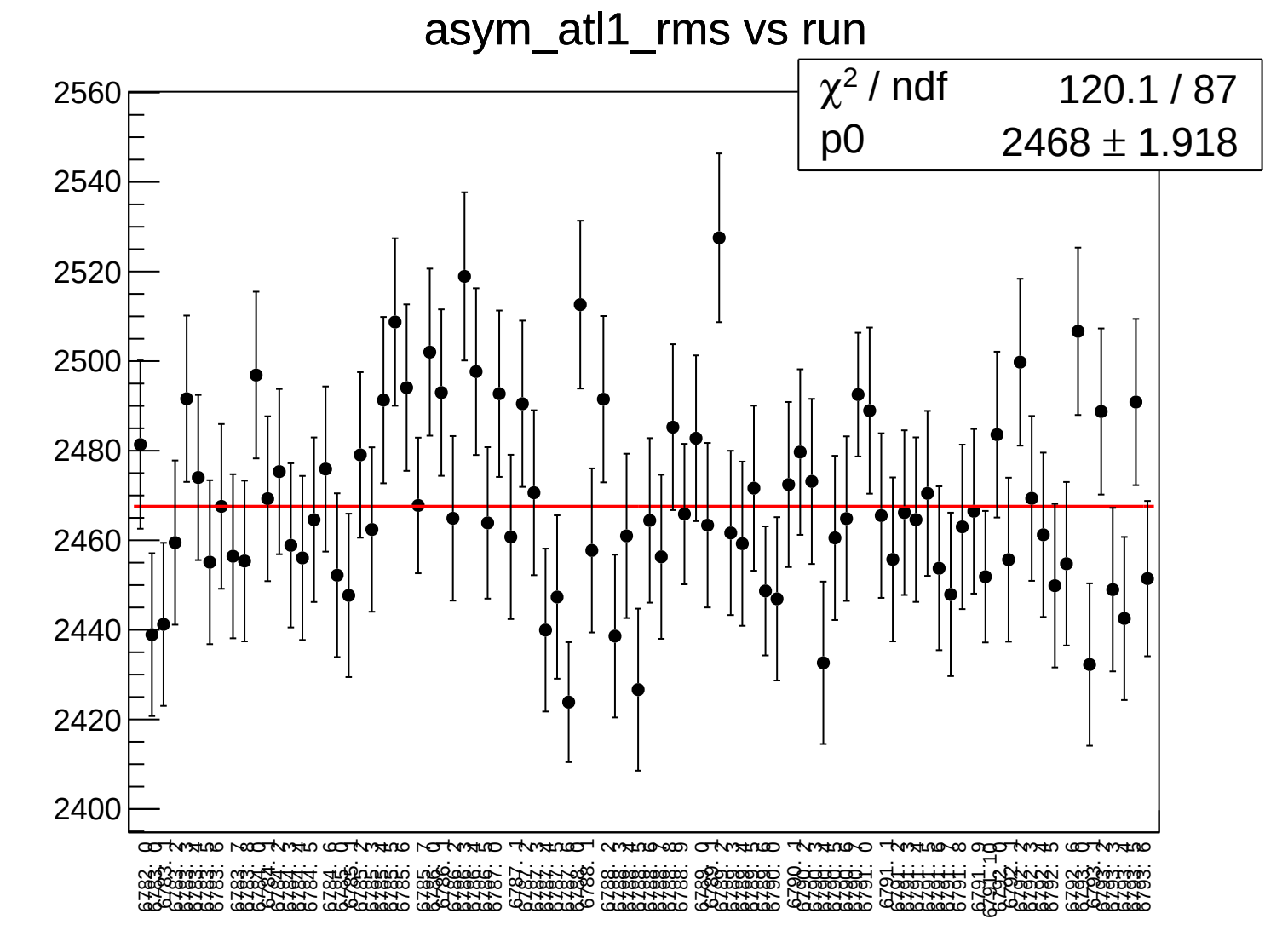

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 60.94 / 87
p0 930.6 ± 675
pull
Entries 88
Mean −537
Std Dev 0

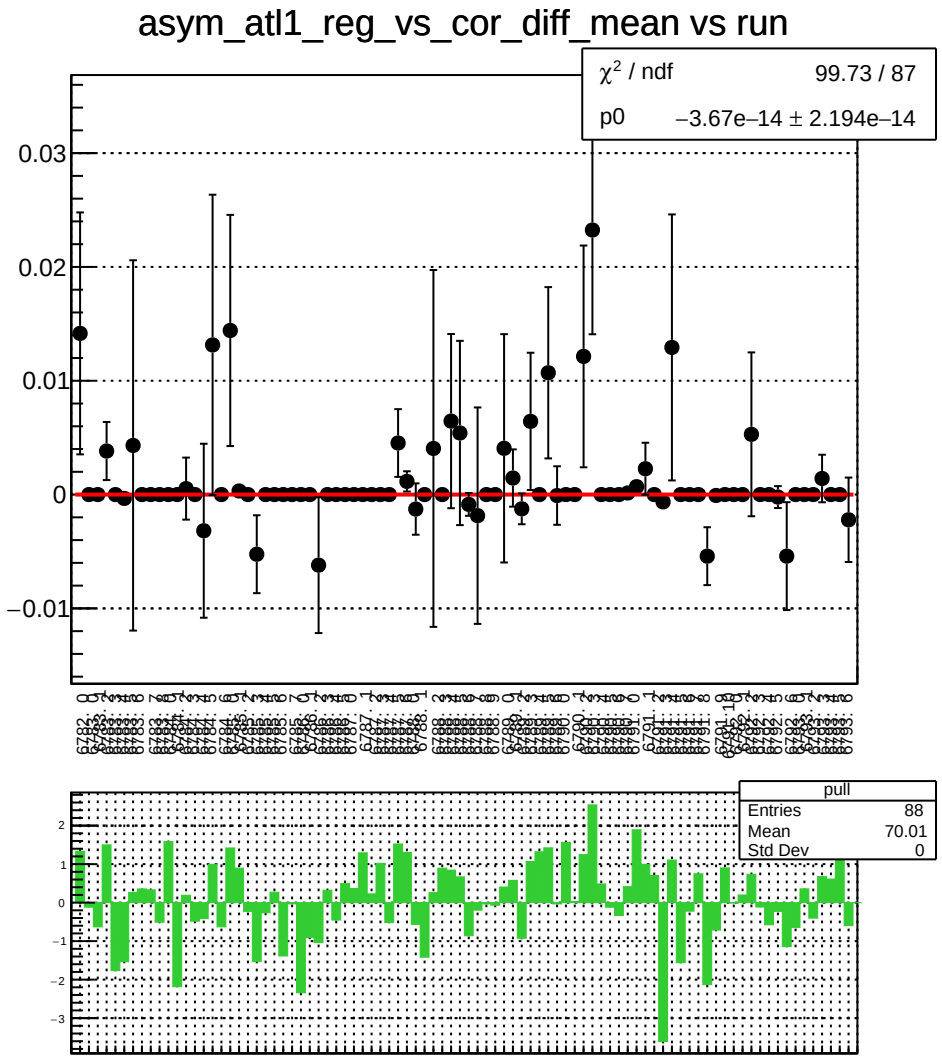

pull1D
Entries 88
Mean 0.004202
Std Dev 0.8322

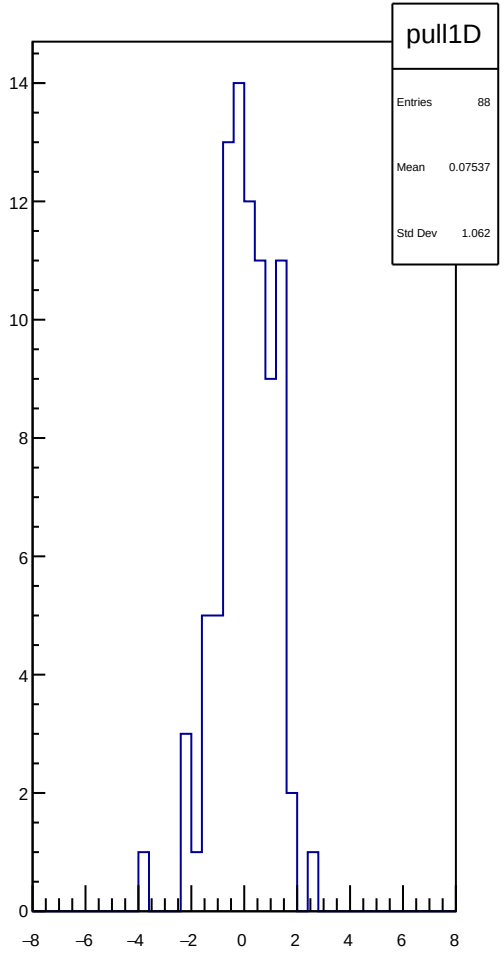

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 3820 / 87
p0 613.3 ± 0.4773
700
680
660
640
620
600
580
560

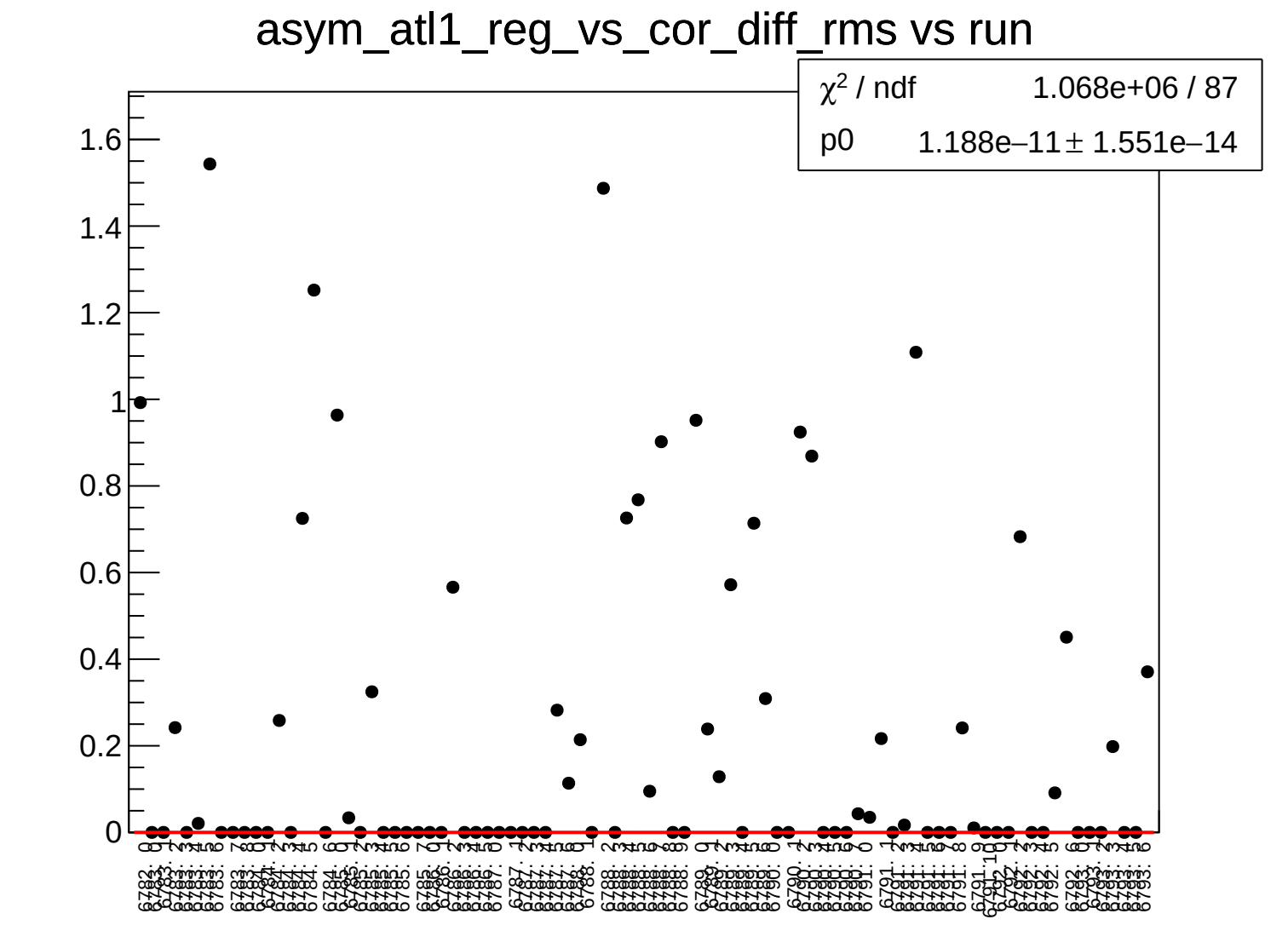

asym_atl1_mean vs run
×10^3
χ² / ndf 85.31 / 87
p0 −137.3 ± 2713
pull
Entries 88
Mean −1550
Std Dev 0

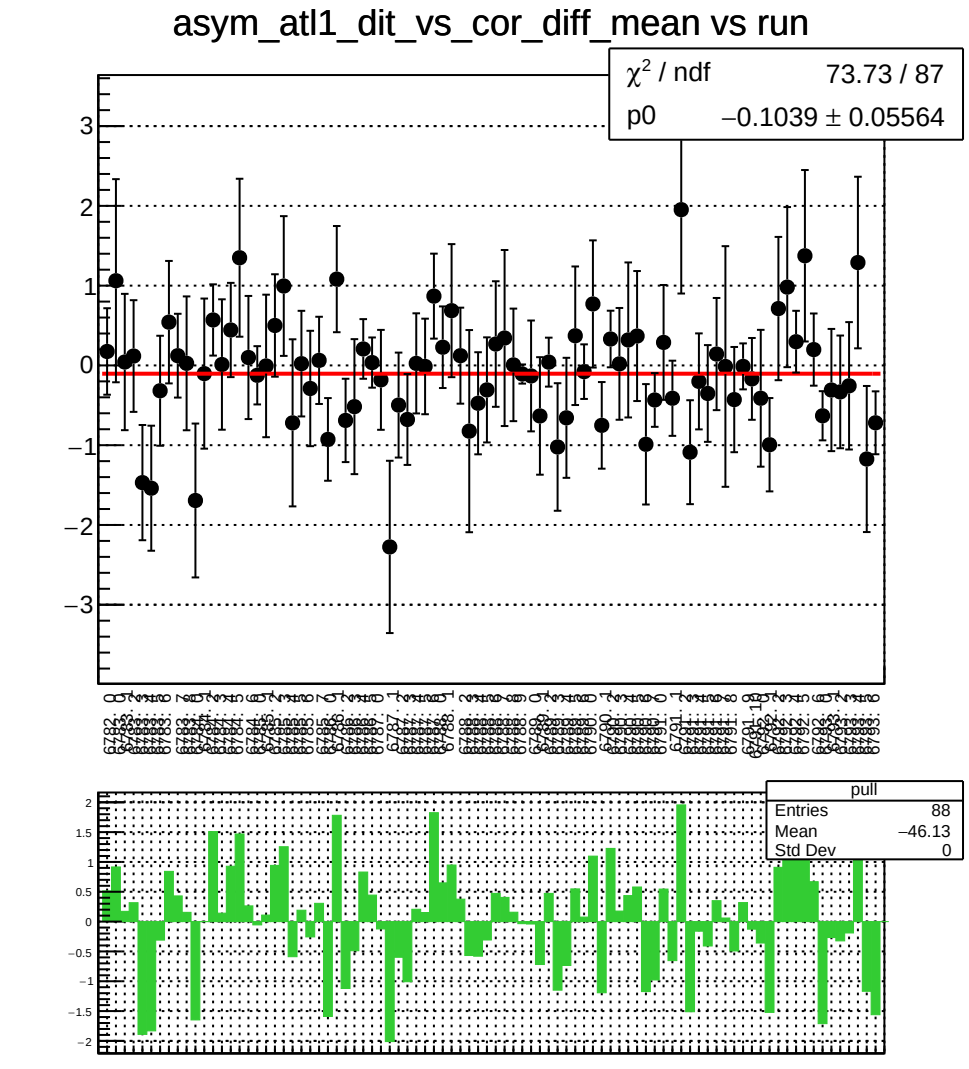

pull1D
Entries 88
Mean −0.001958
Std Dev 0.9846

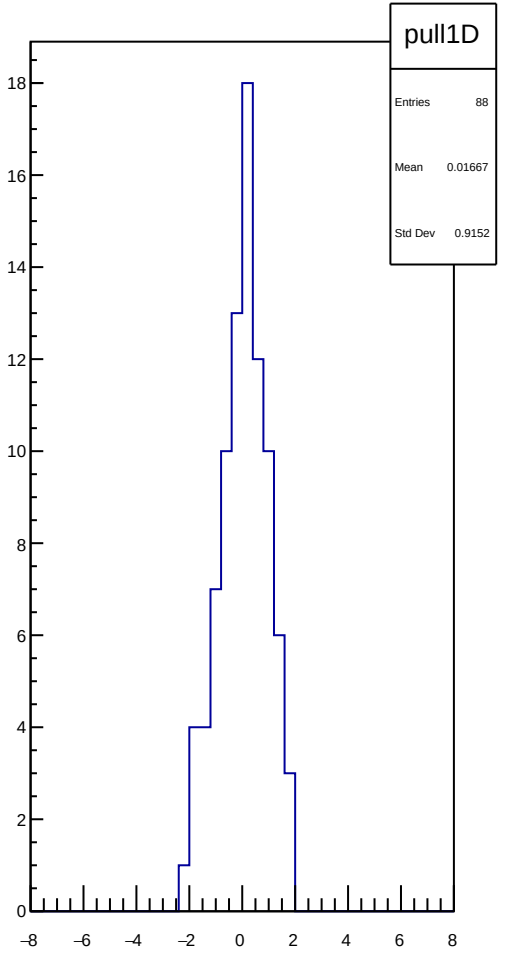

asym_atl1_rms vs run
χ² / ndf 120.1 / 87
p0 2468 ± 1.918
2560
2540
2520
2500
2480
2460
2440
2420
2400

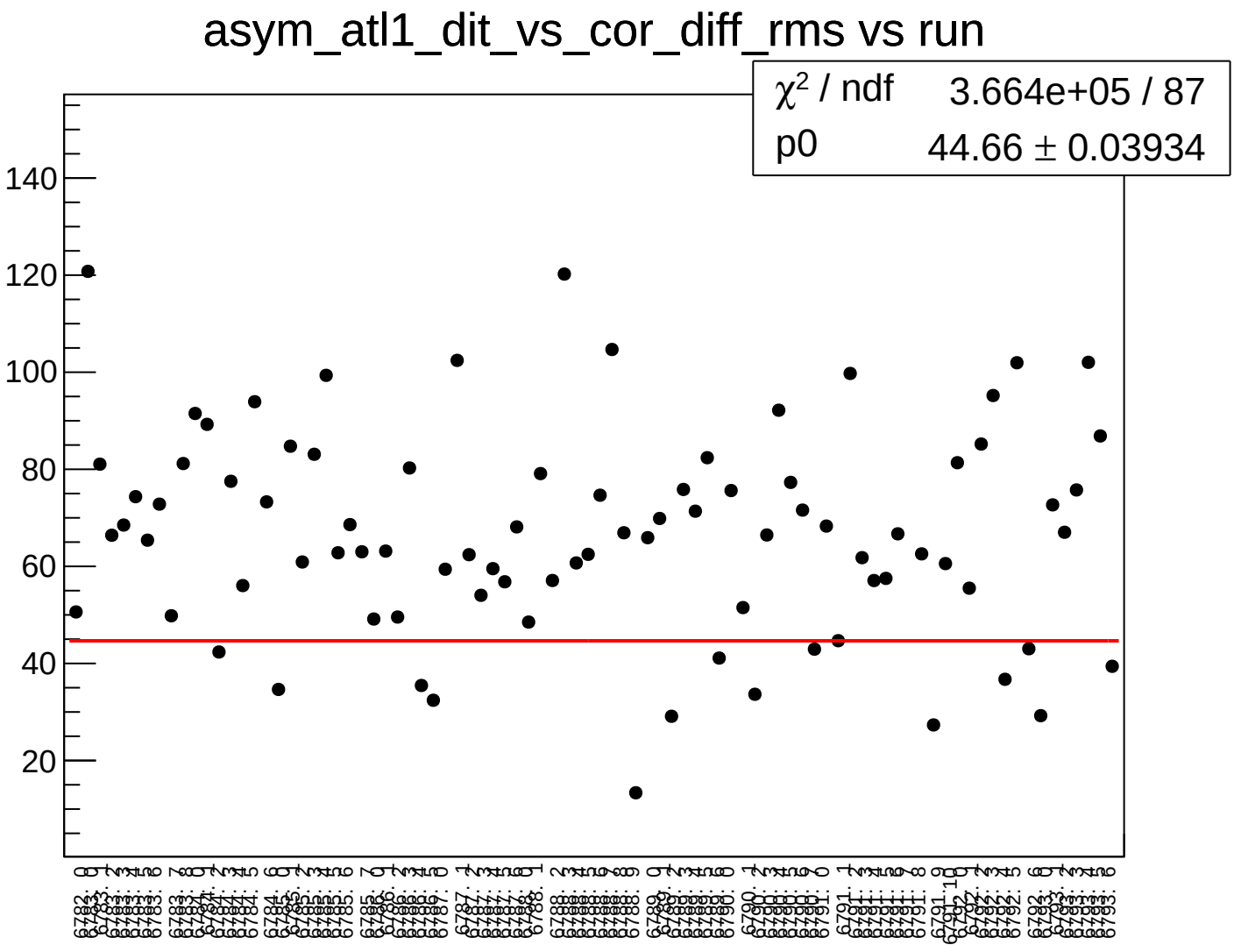

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 99.73 / 87
p0 −3.67e−14 ± 2.194e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean 70.01
Std Dev 0
2
1
0
−1
−2
−3

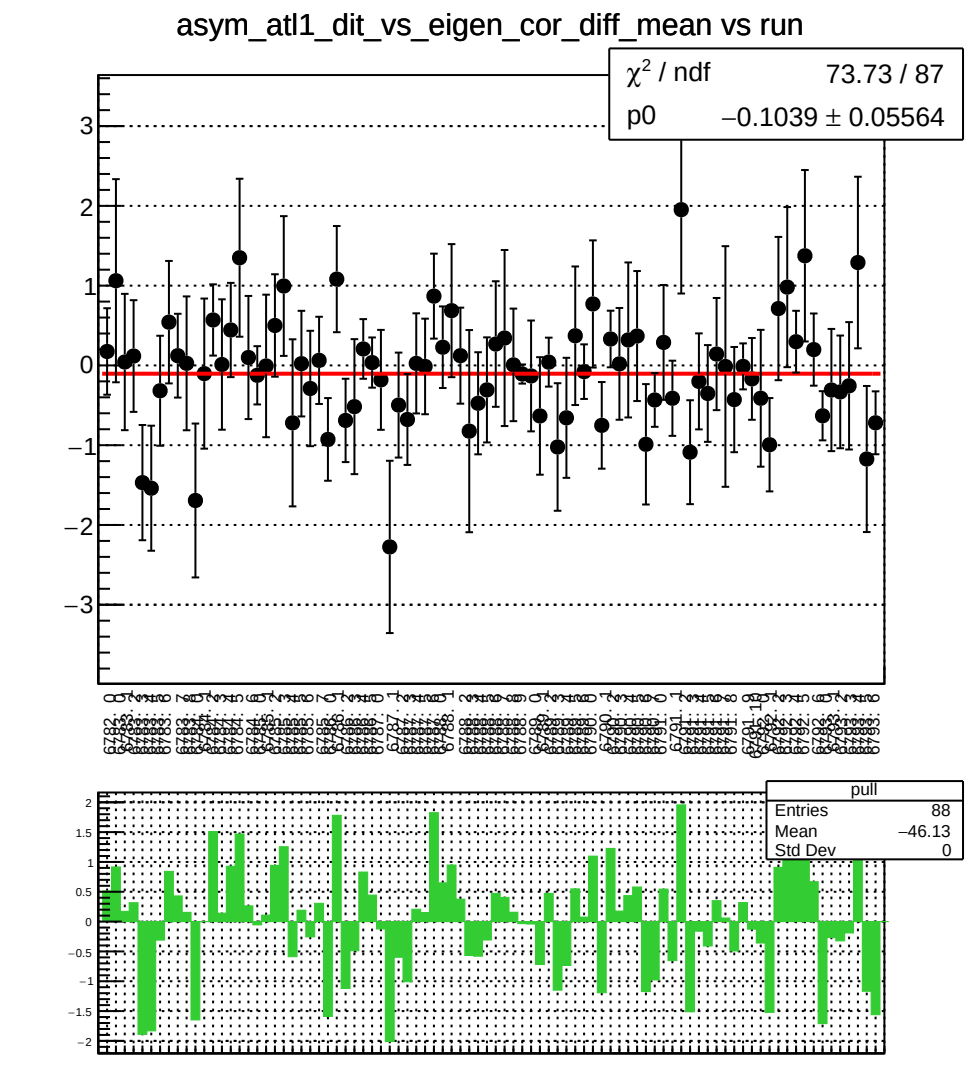

pull1D
Entries 88
Mean 0.07537
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

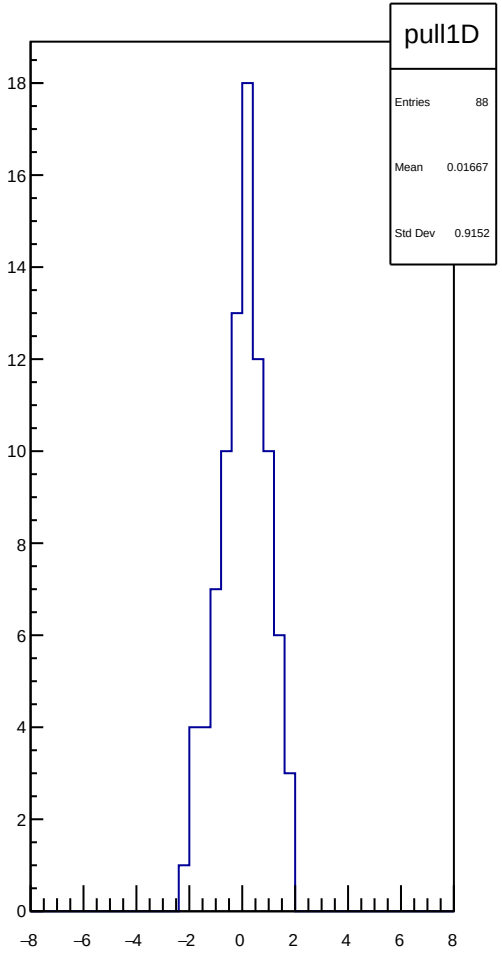

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 87
p0 1.188e−11 ± 1.551e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

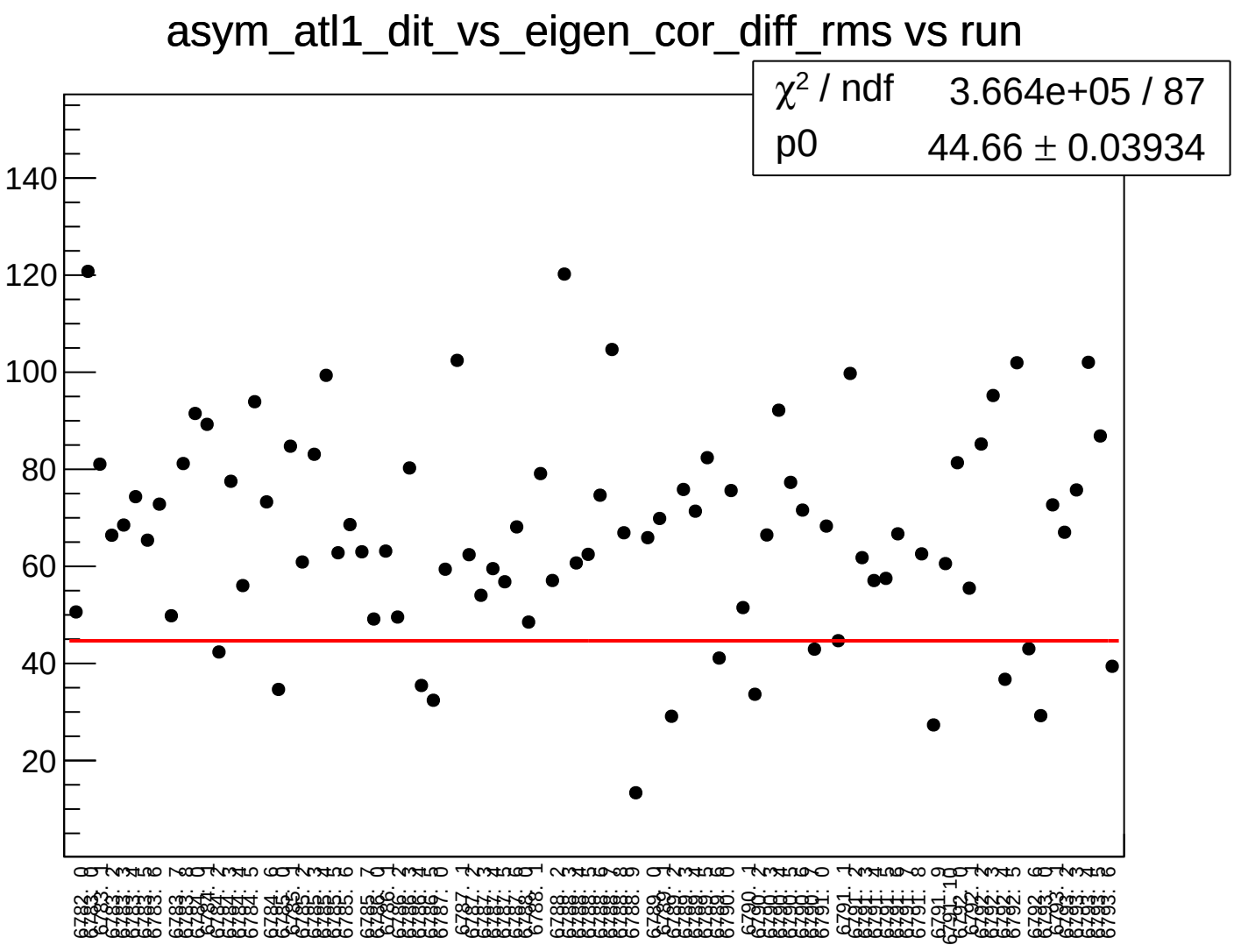

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 73.73 / 87
p0 −0.1039 ± 0.05564
pull
Entries 88
Mean −46.13
Std Dev 0

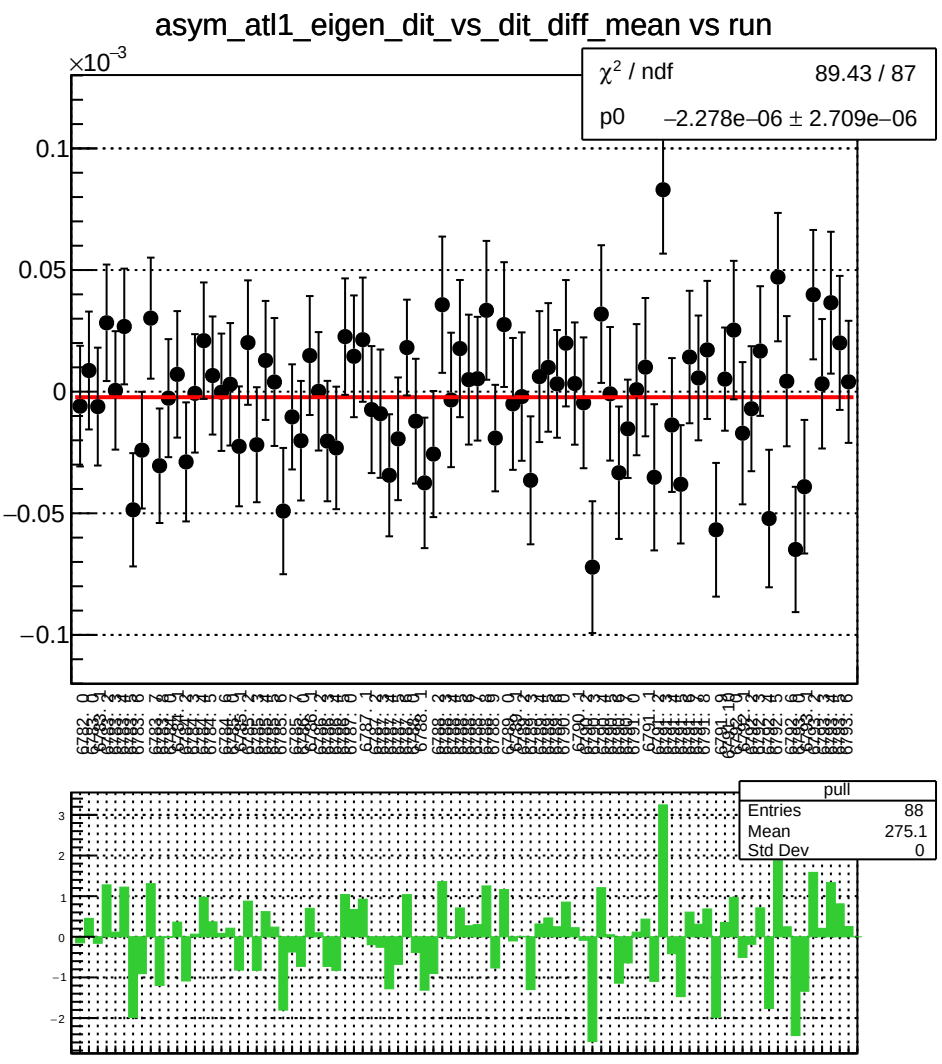

pull1D
Entries 88
Mean 0.01667
Std Dev 0.9152

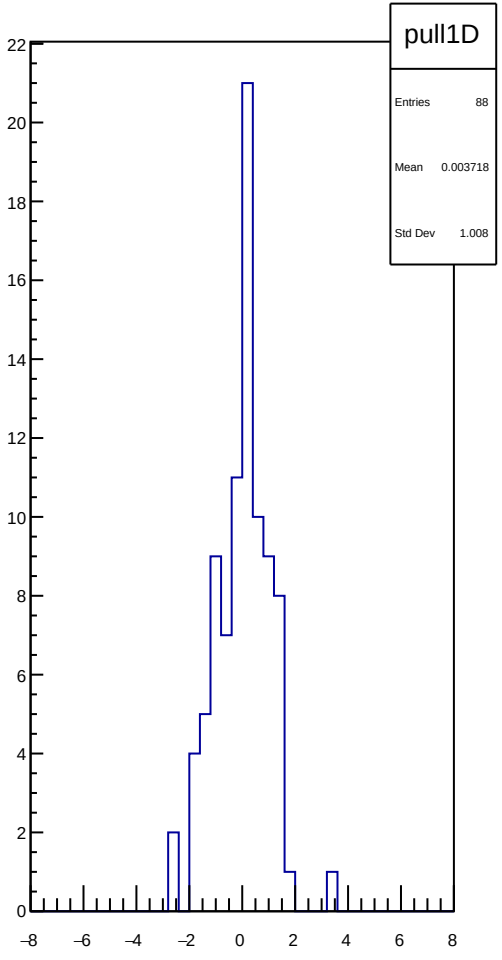

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.664e+05 / 87
p0 44.66 ± 0.03934
140
120
100
80
60
40
20

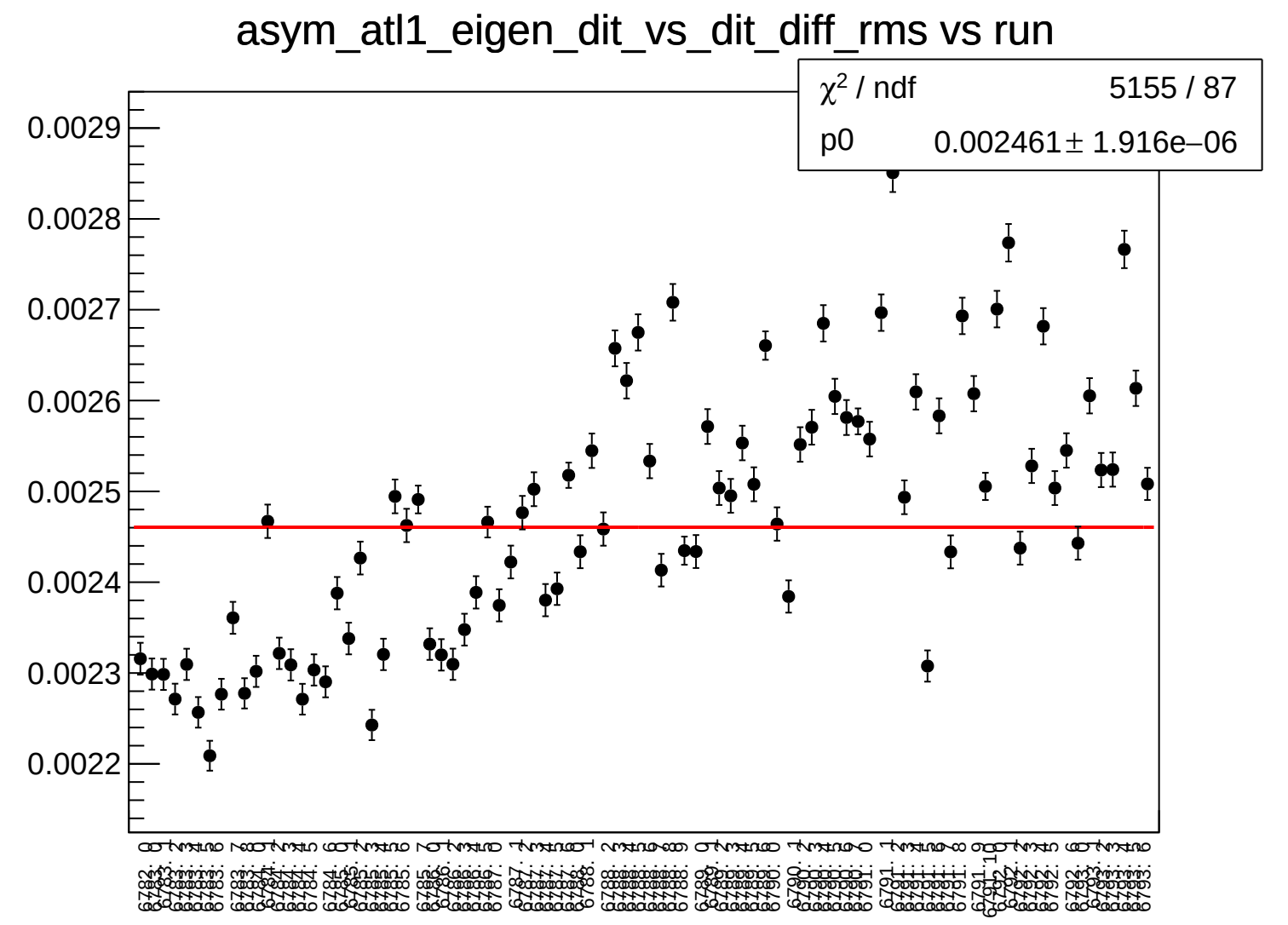

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.73 / 87
p0 −0.1039 ± 0.05564
pull
Entries 88
Mean −46.13
Std Dev 0

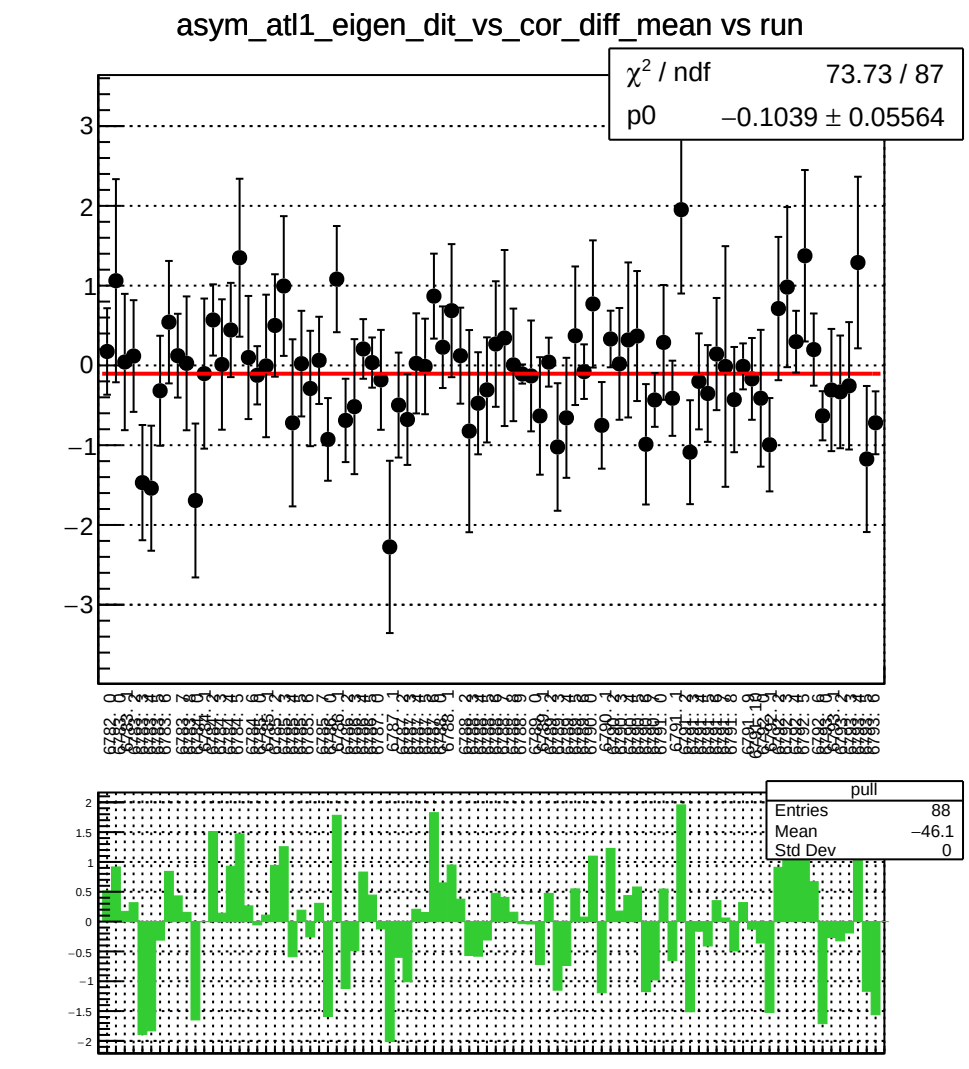

pull1D
Entries 88
Mean 0.01667
Std Dev 0.9152

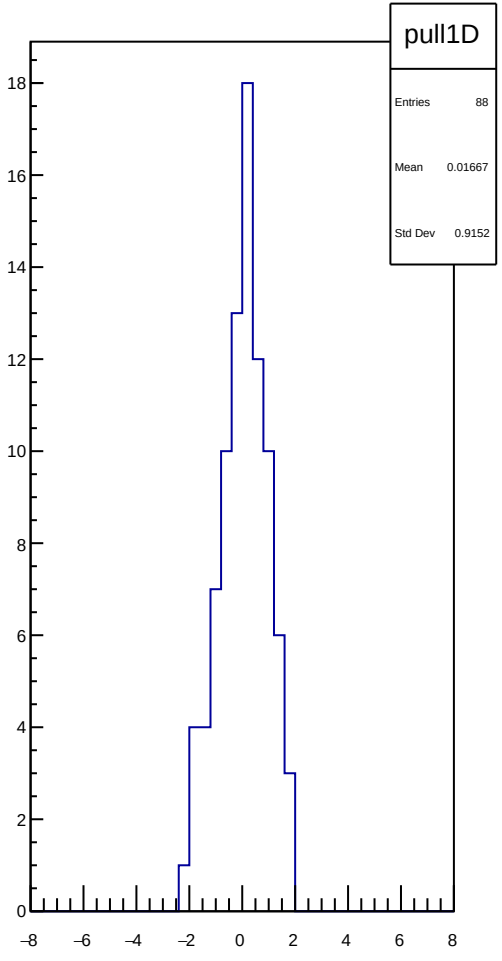

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.664e+05 / 87
p0 44.66 ± 0.03934
140
120
100
80
60
40
20

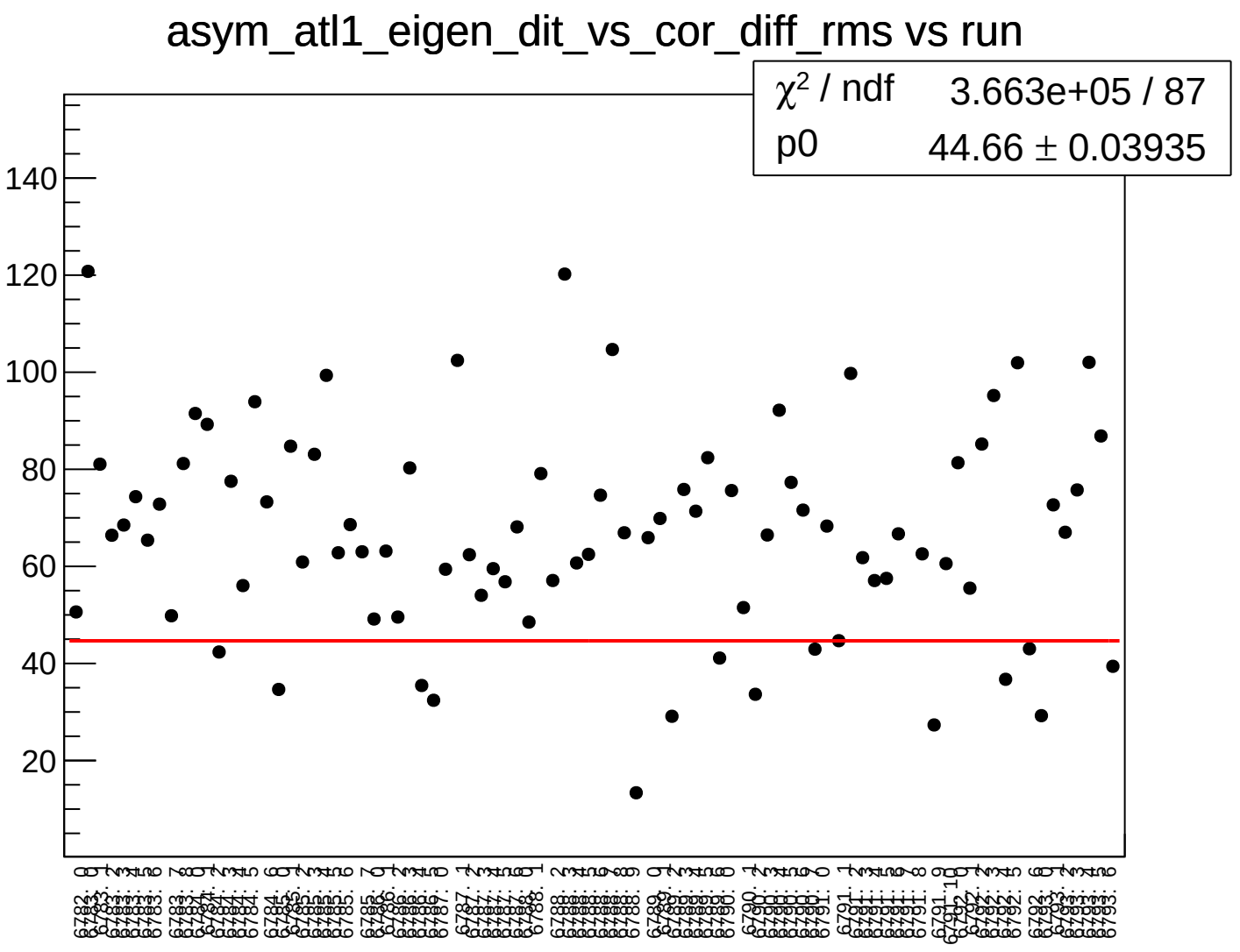

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.43 / 87
p0 −2.278e−06 ± 2.709e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 275.1
Std Dev 0
3
2
1
0
−1
−2

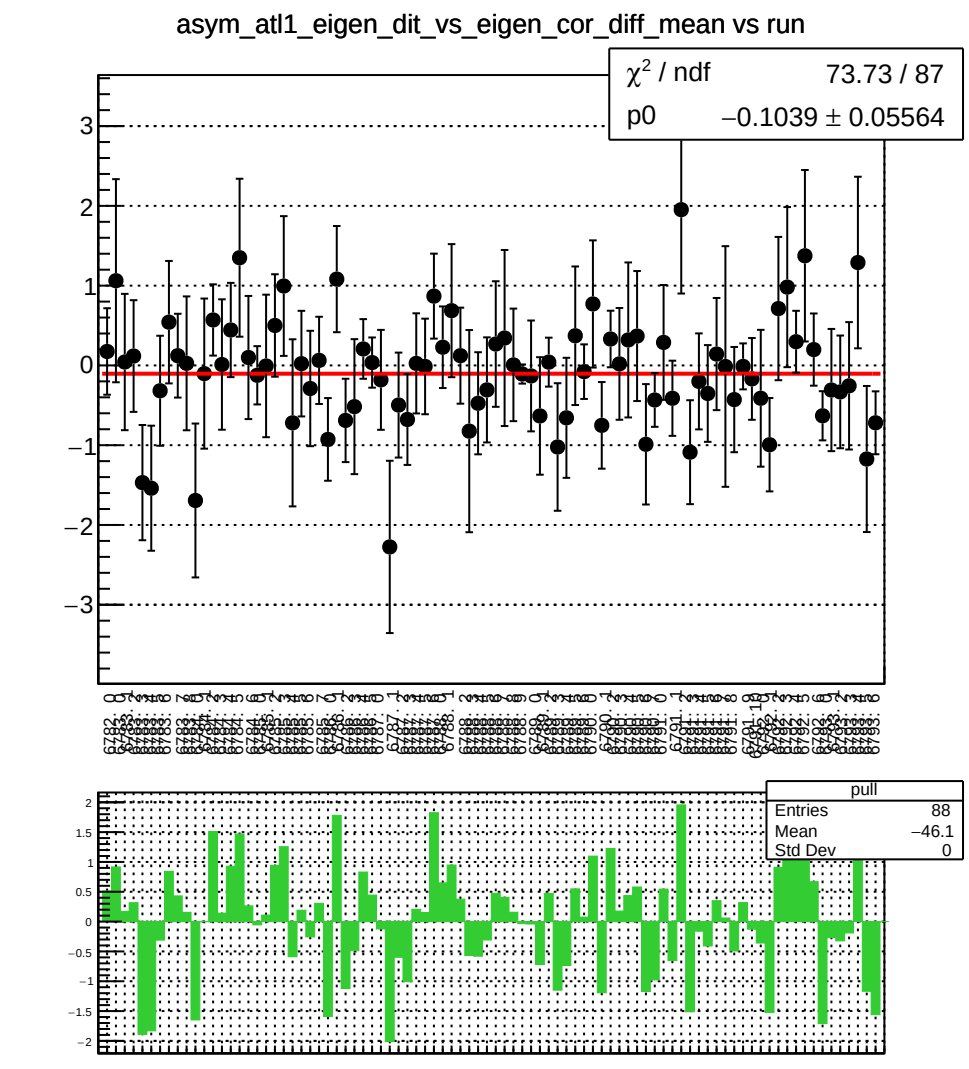

pull1D
Entries 88
Mean 0.003718
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

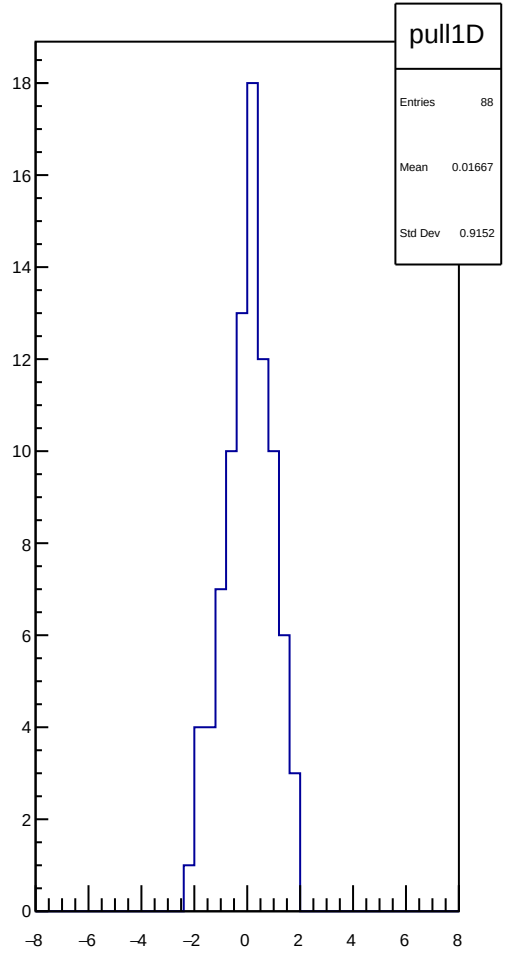

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5155 / 87
p0 0.002461 ± 1.916e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

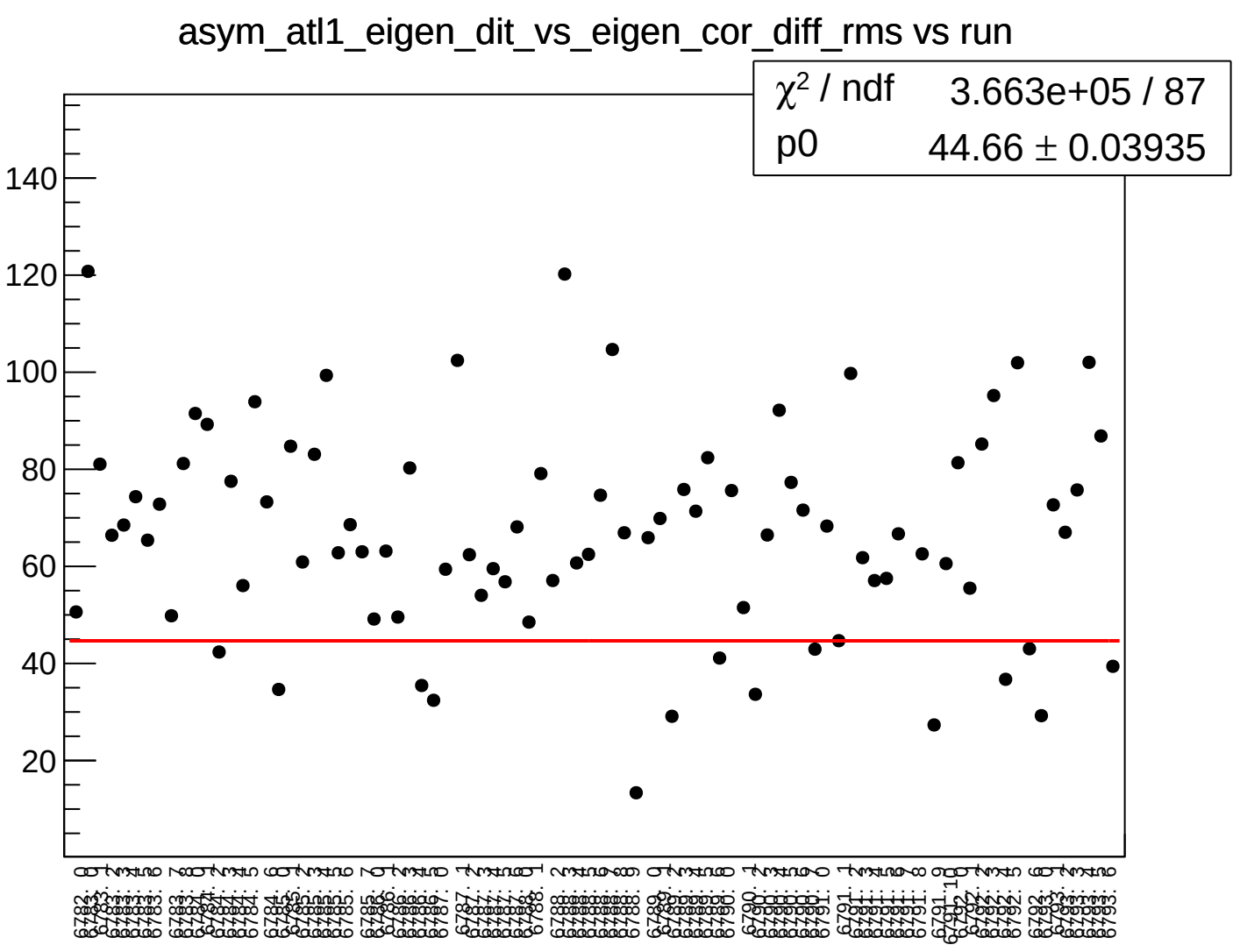

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.73 / 87
p0 −0.1039 ± 0.05564
pull
Entries 88
Mean −46.1
Std Dev 0

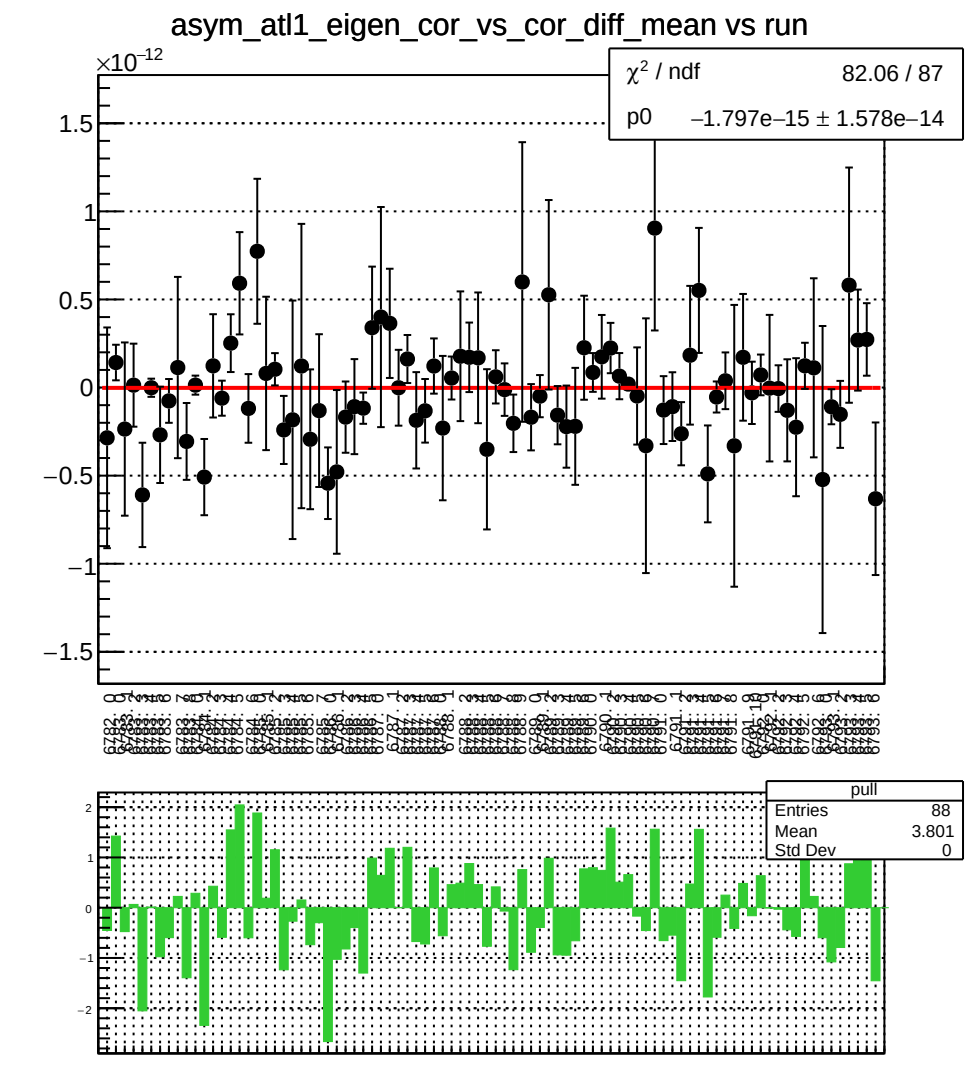

pull1D
Entries 88
Mean 0.01667
Std Dev 0.9152

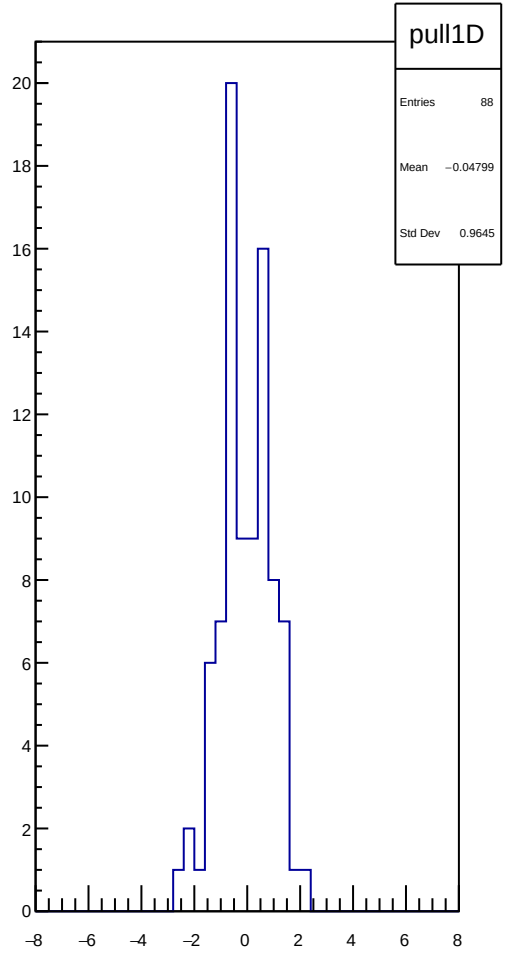

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.663e+05 / 87
p0 44.66 ± 0.03935
140
120
100
80
60
40
20

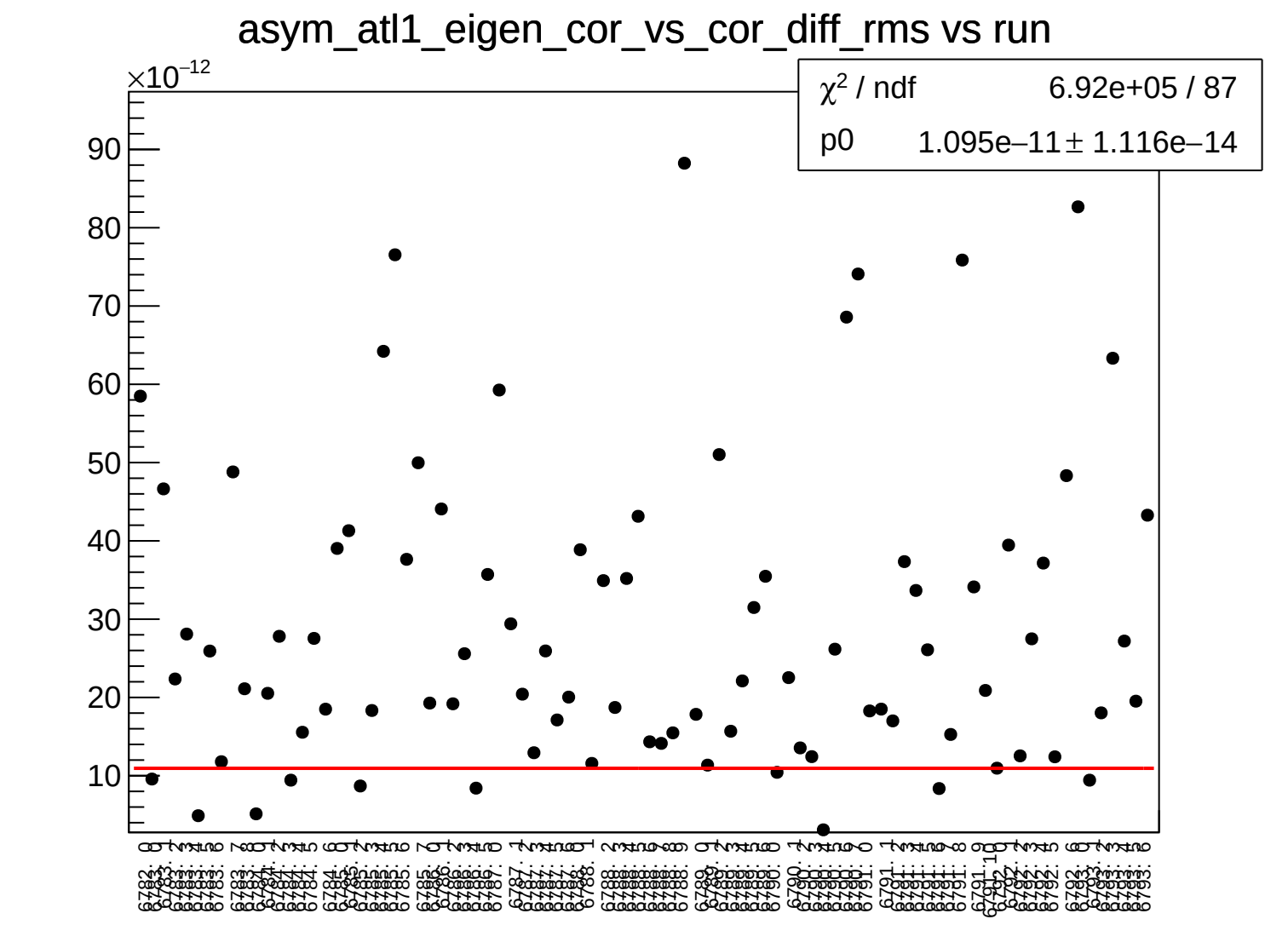

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.73 / 87
p0 −0.1039 ± 0.05564
pull
Entries 88
Mean −46.1
Std Dev 0

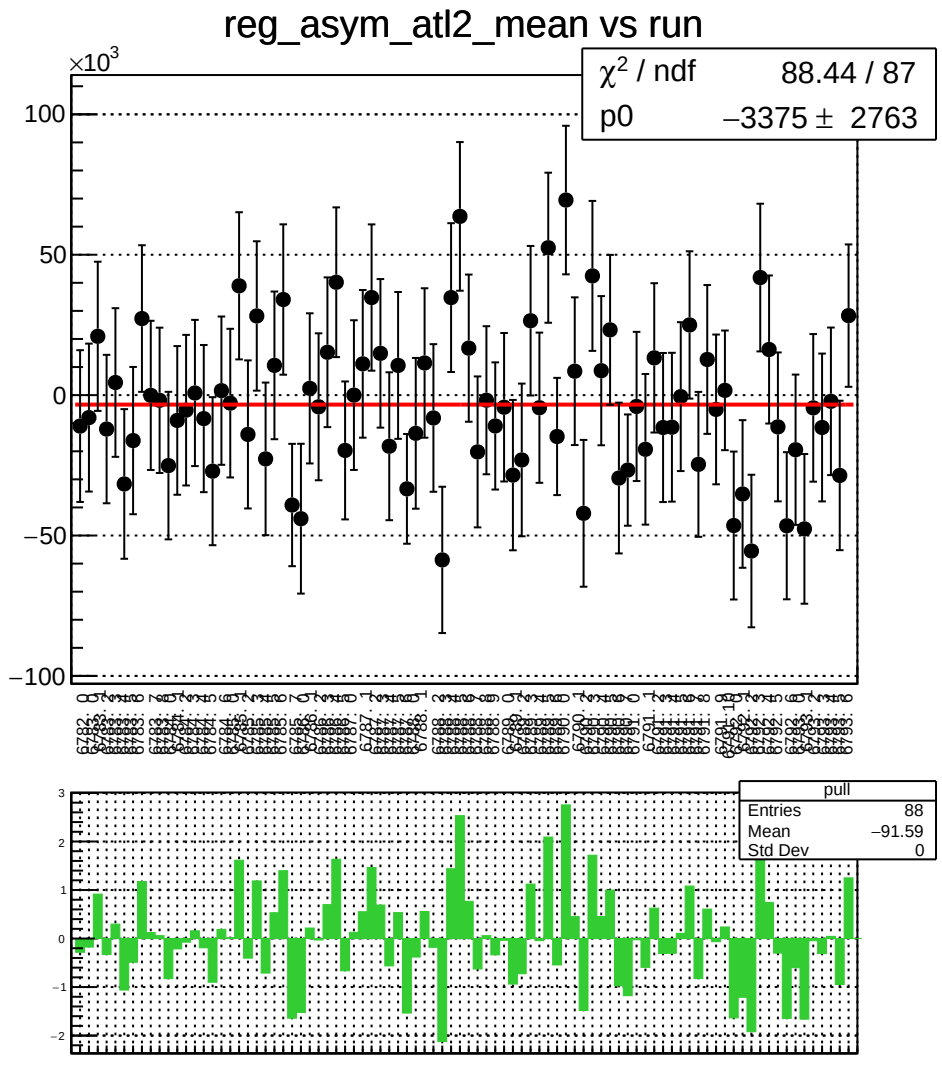

pull1D
Entries 88
Mean 0.01667
Std Dev 0.9152

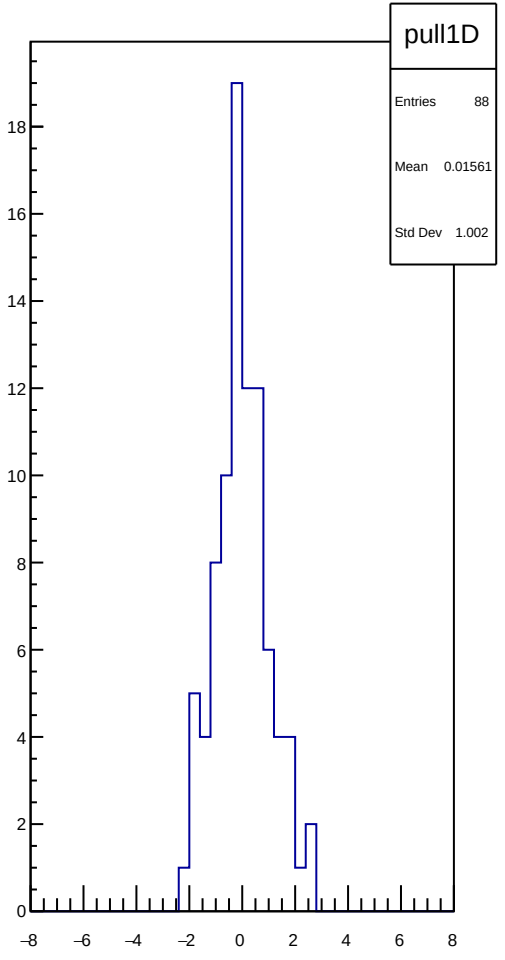

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.663e+05 / 87
p0 44.66 ± 0.03935
140
120
100
80
60
40
20

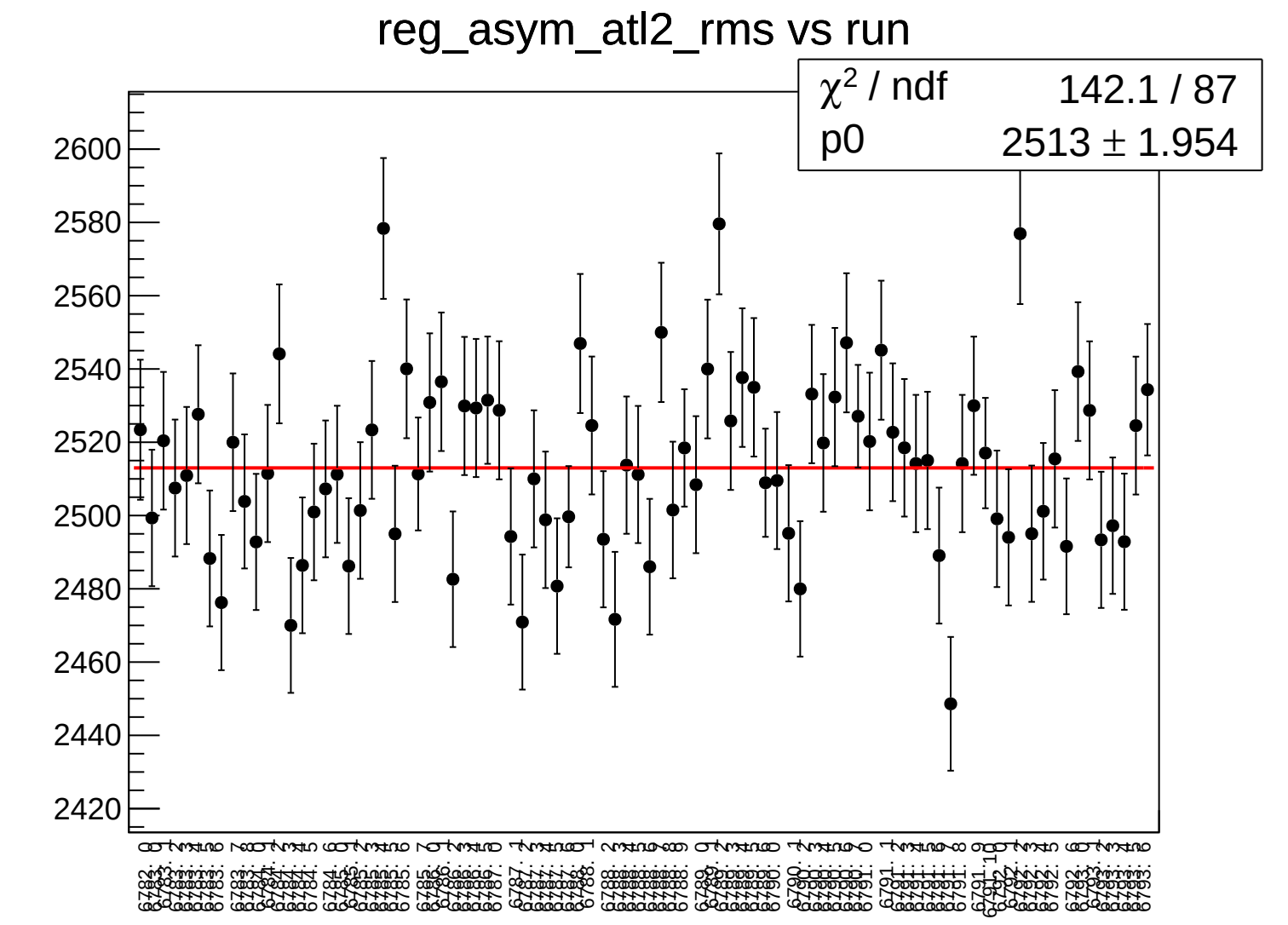

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.06 / 87
p0 −1.797e−15 ± 1.578e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 88
Mean 3.801
Std Dev 0
2
1
0
−1
−2

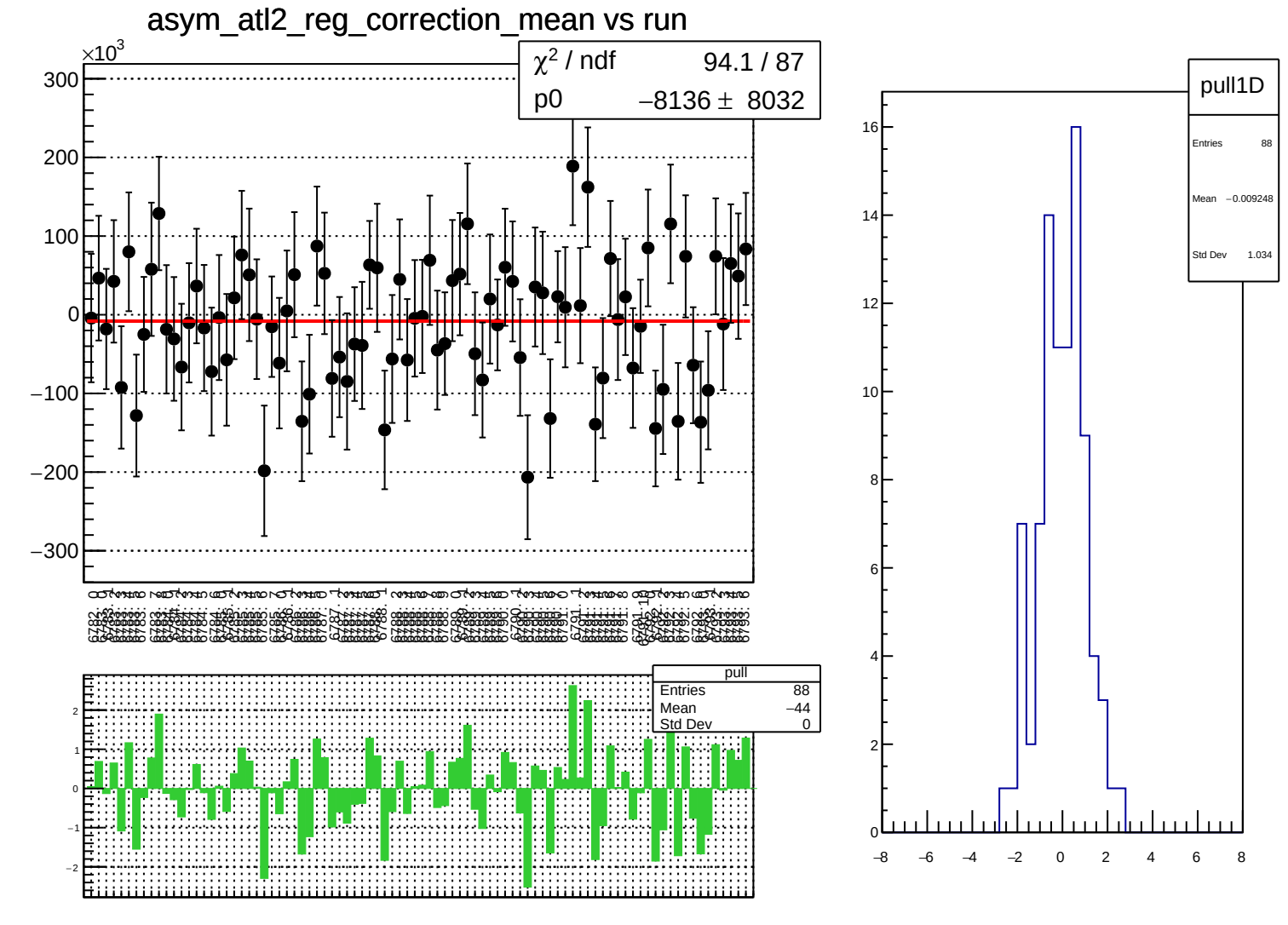

pull1D
Entries 88
Mean −0.04799
Std Dev 0.9645
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

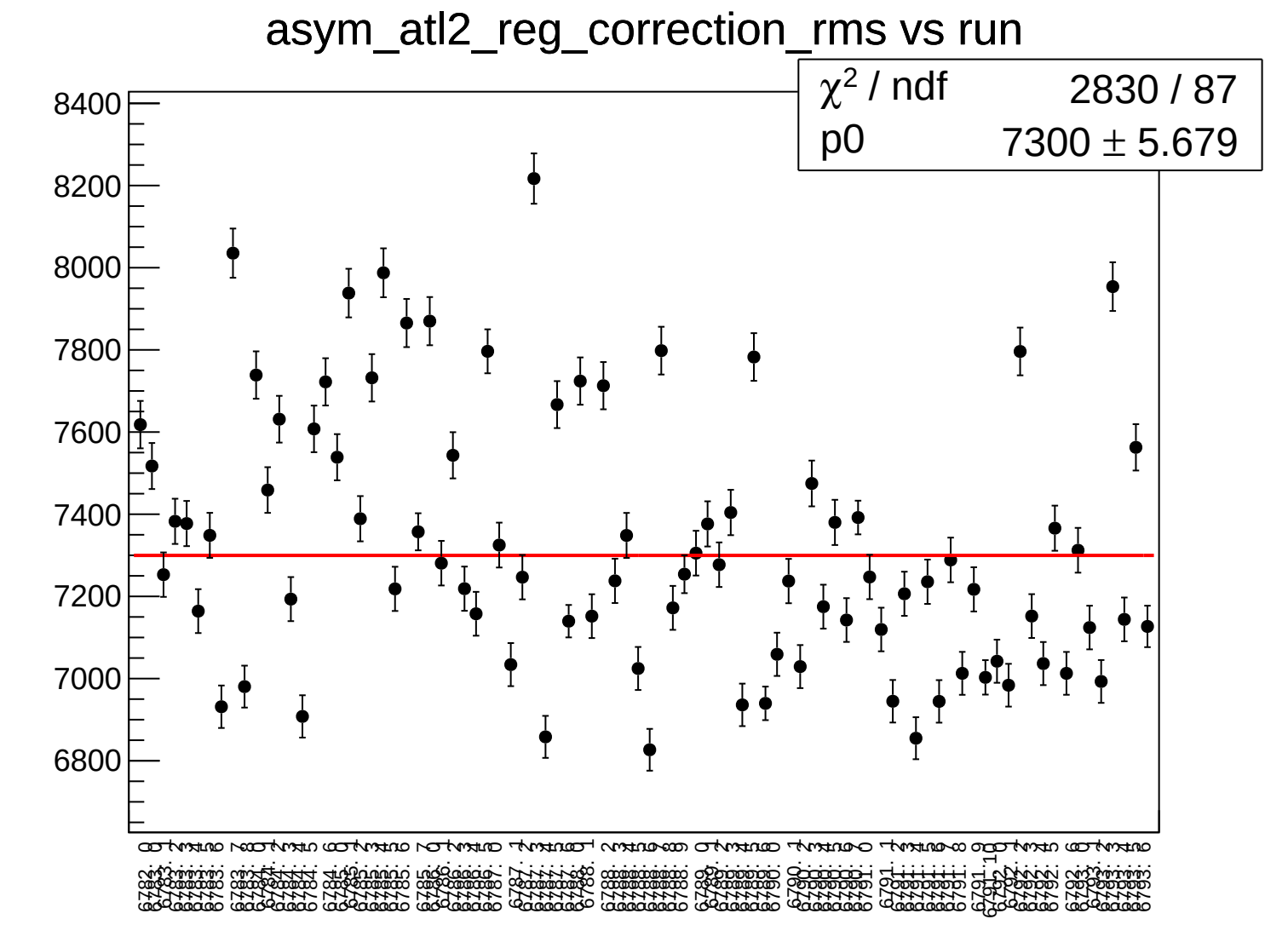

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.92e+05 / 87
p0 1.095e−11 ± 1.116e−14
90
80
70
60
50
40
30
20
10

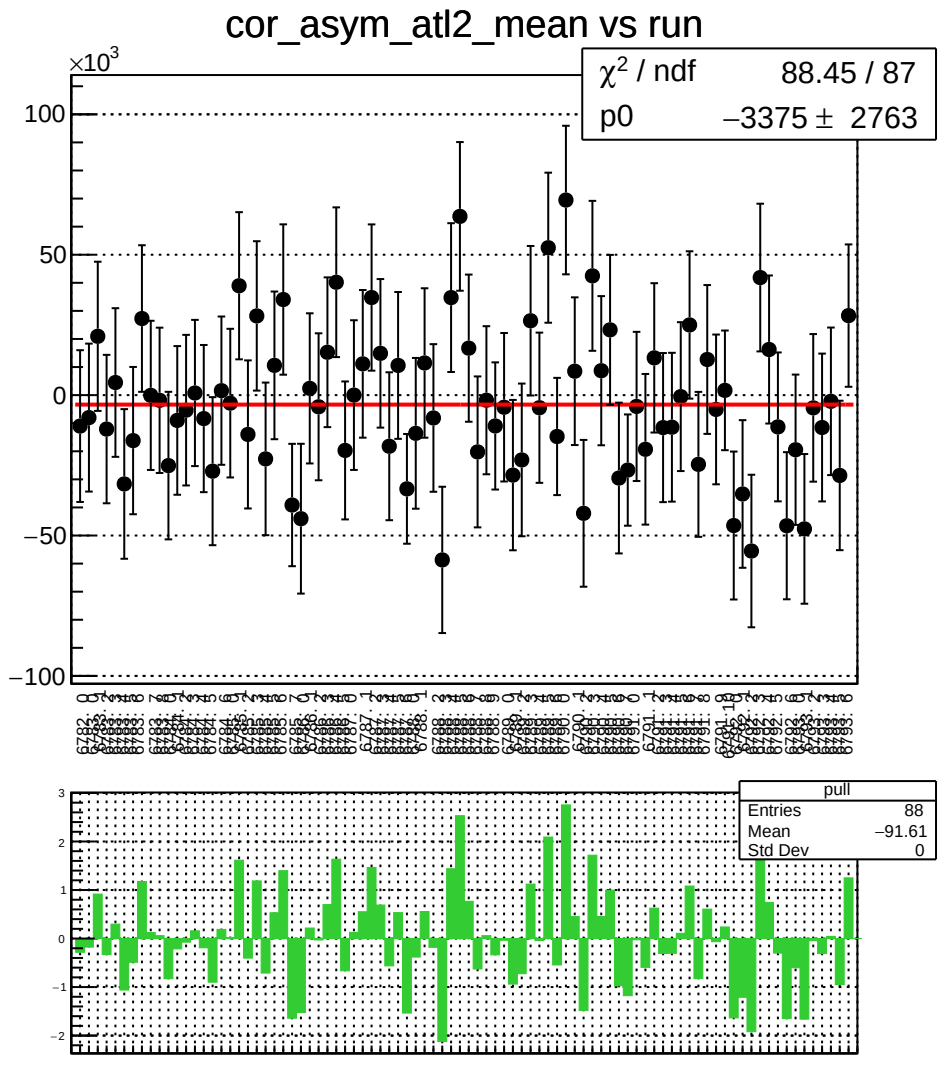

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 88.44 / 87
p0 −3375 ± 2763
100
50
0
−50
−100
pull
Entries 88
Mean −91.59
Std Dev 0
3
2
1
0
−1
−2

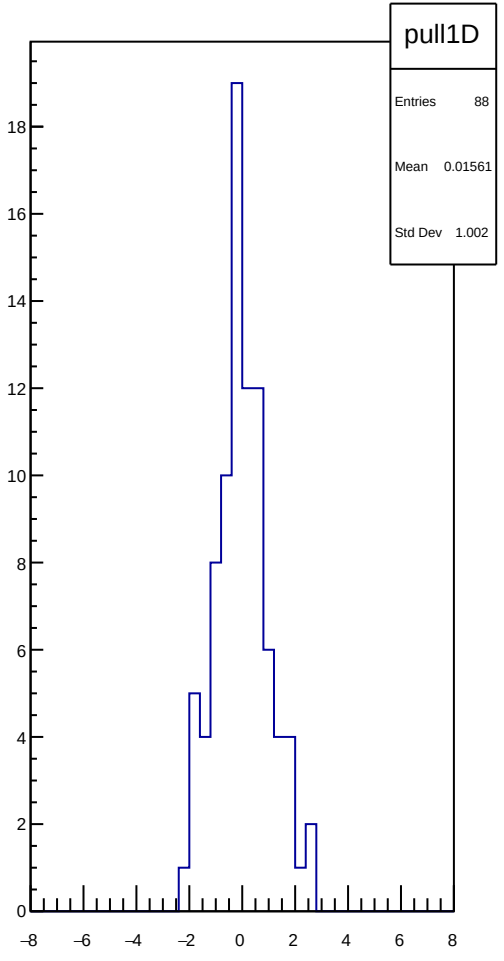

pull1D
Entries 88
Mean 0.01561
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

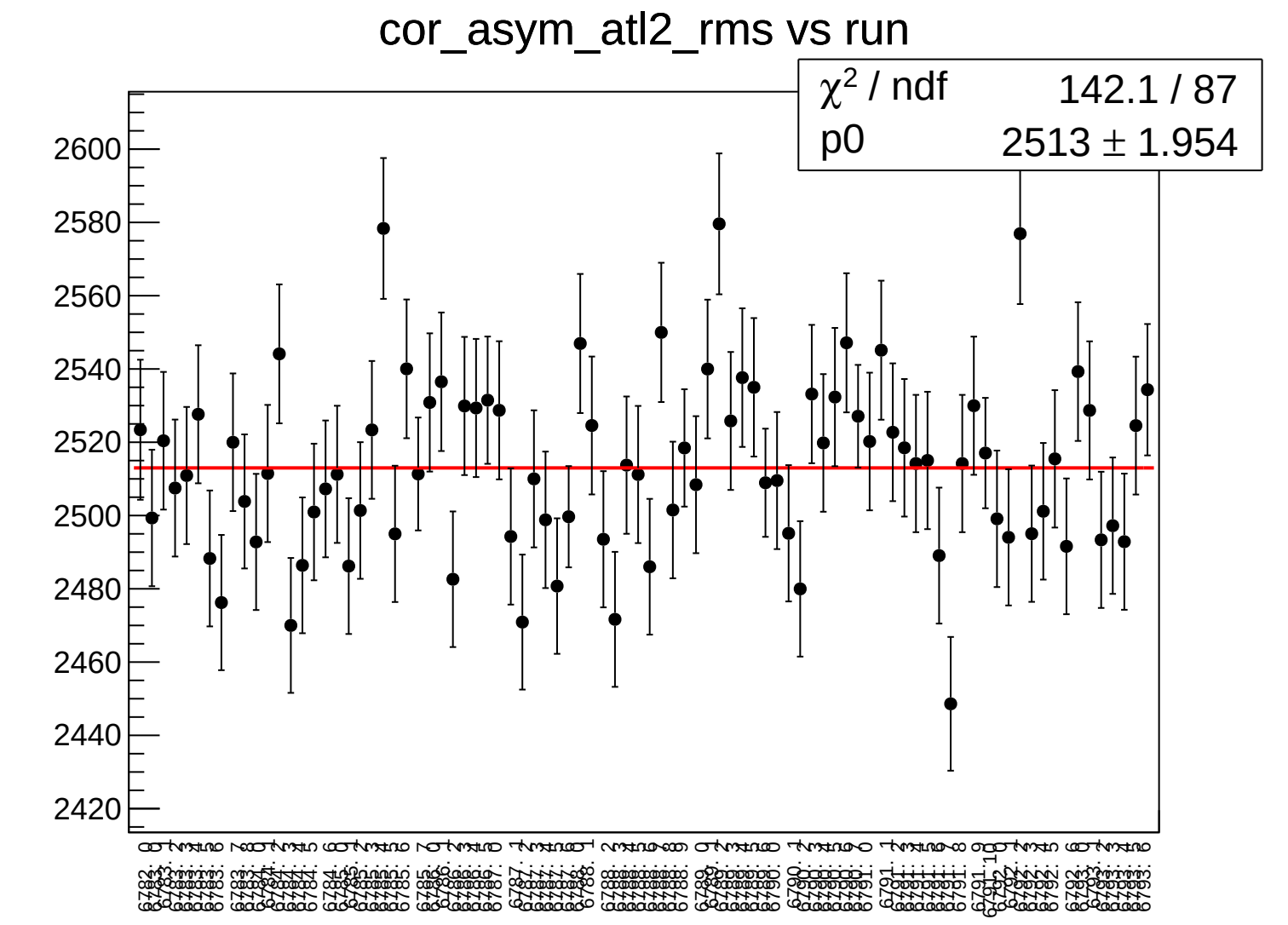

reg_asym_atl2_rms vs run
χ² / ndf 142.1 / 87
p0 2513 ± 1.954
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

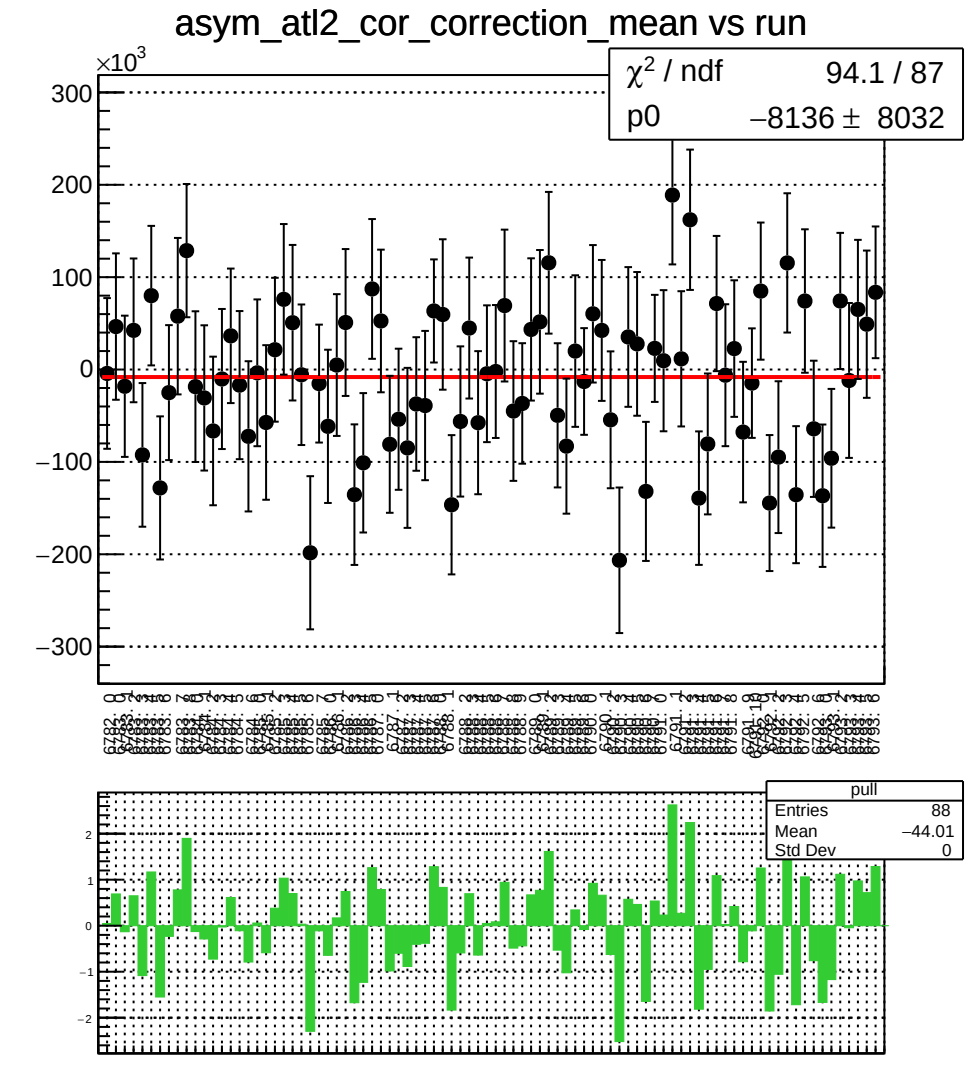

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 94.1 / 87
p0 −8136 ± 8032
pull
Entries 88
Mean −44
Std Dev 0
pull1D
Entries 88
Mean −0.009248
Std Dev 1.034

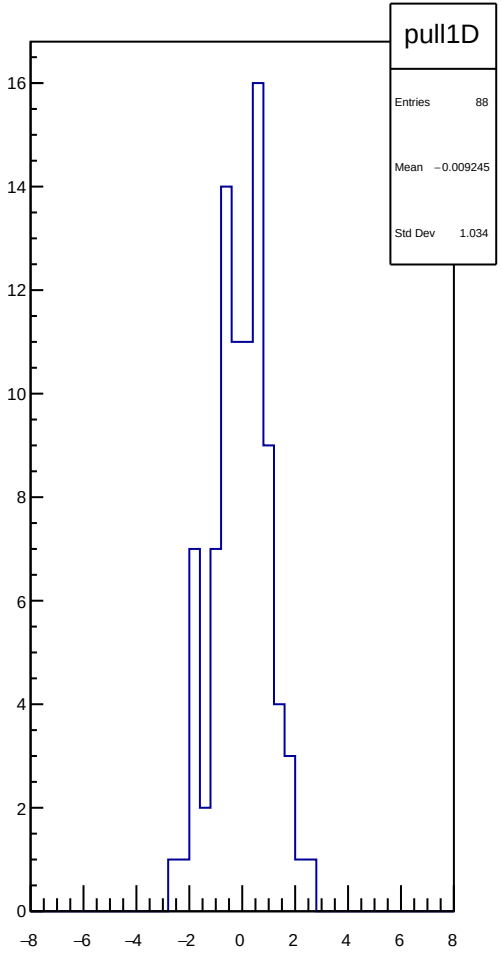

asym_atl2_reg_correction_rms vs run
χ² / ndf 2830 / 87
p0 7300 ± 5.679
8400
8200
8000
7800
7600
7400
7200
7000
6800

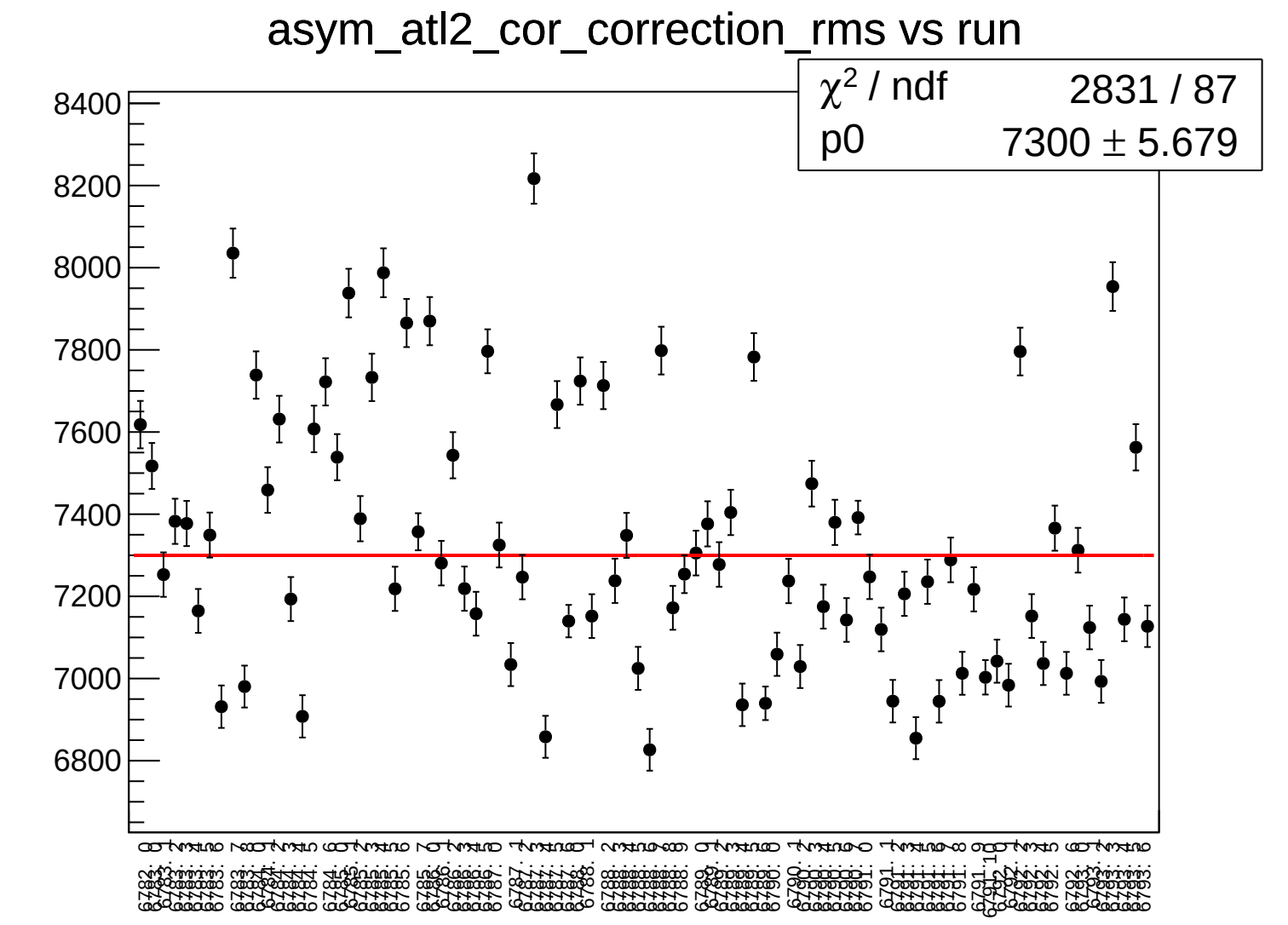

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 88.45 / 87
p0 −3375 ± 2763
100
50
0
−50
−100
pull
Entries 88
Mean −91.61
Std Dev 0
3
2
1
0
−1
−2

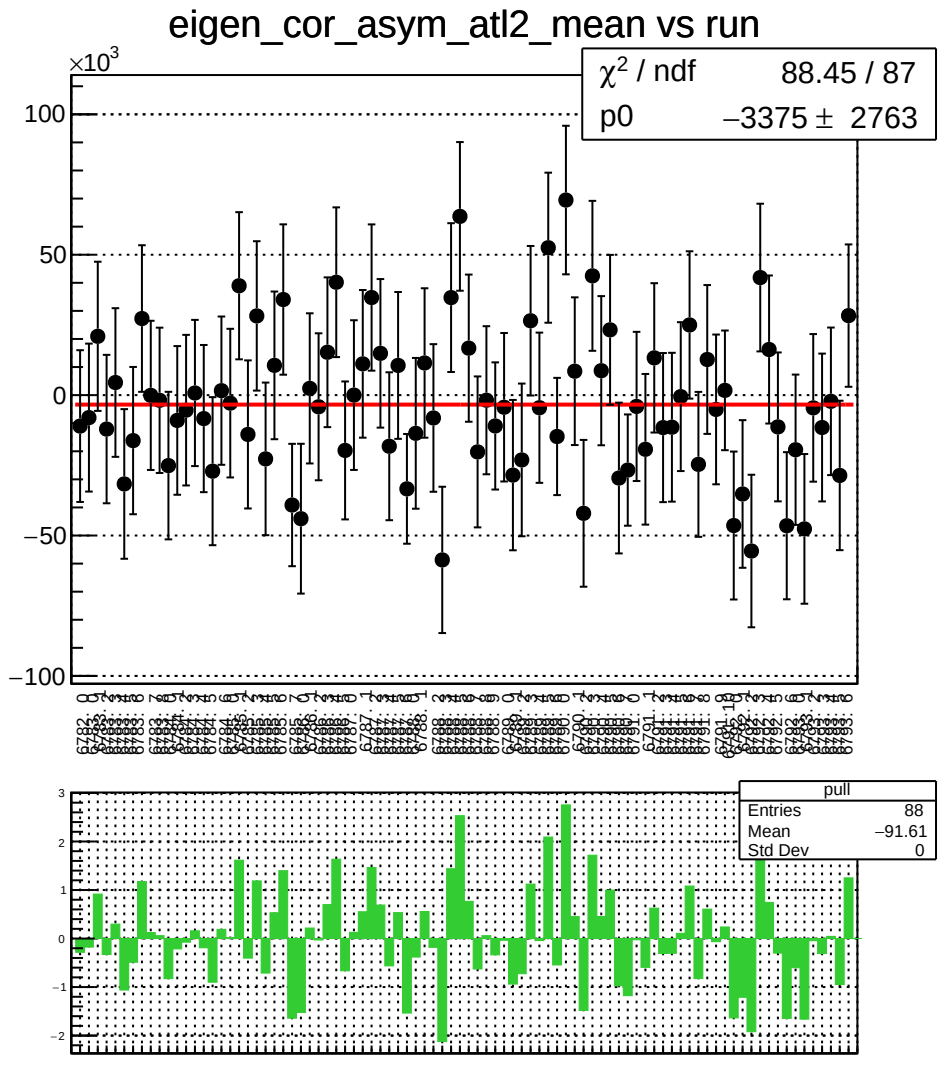

pull1D
Entries 88
Mean 0.01561
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

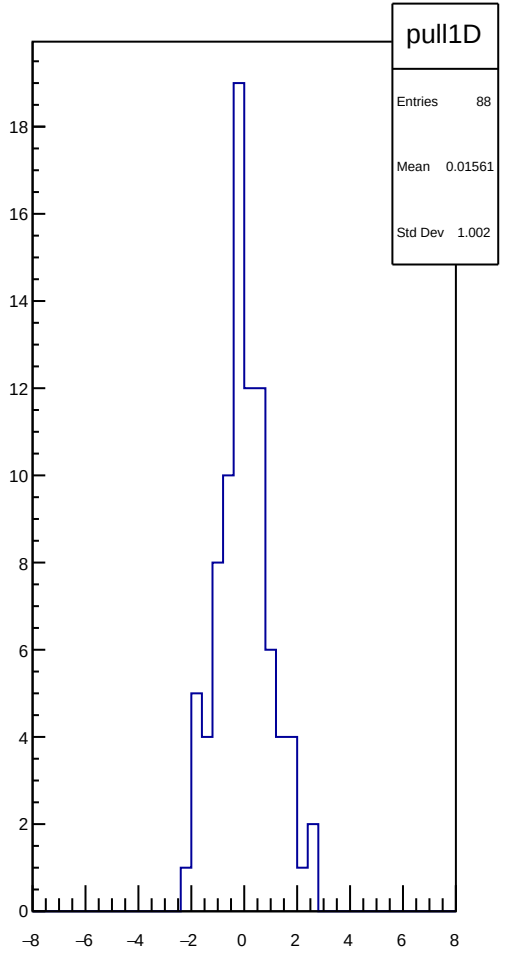

cor_asym_atl2_rms vs run
χ^2 / ndf 142.1 / 87
p0 2513 ± 1.954
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

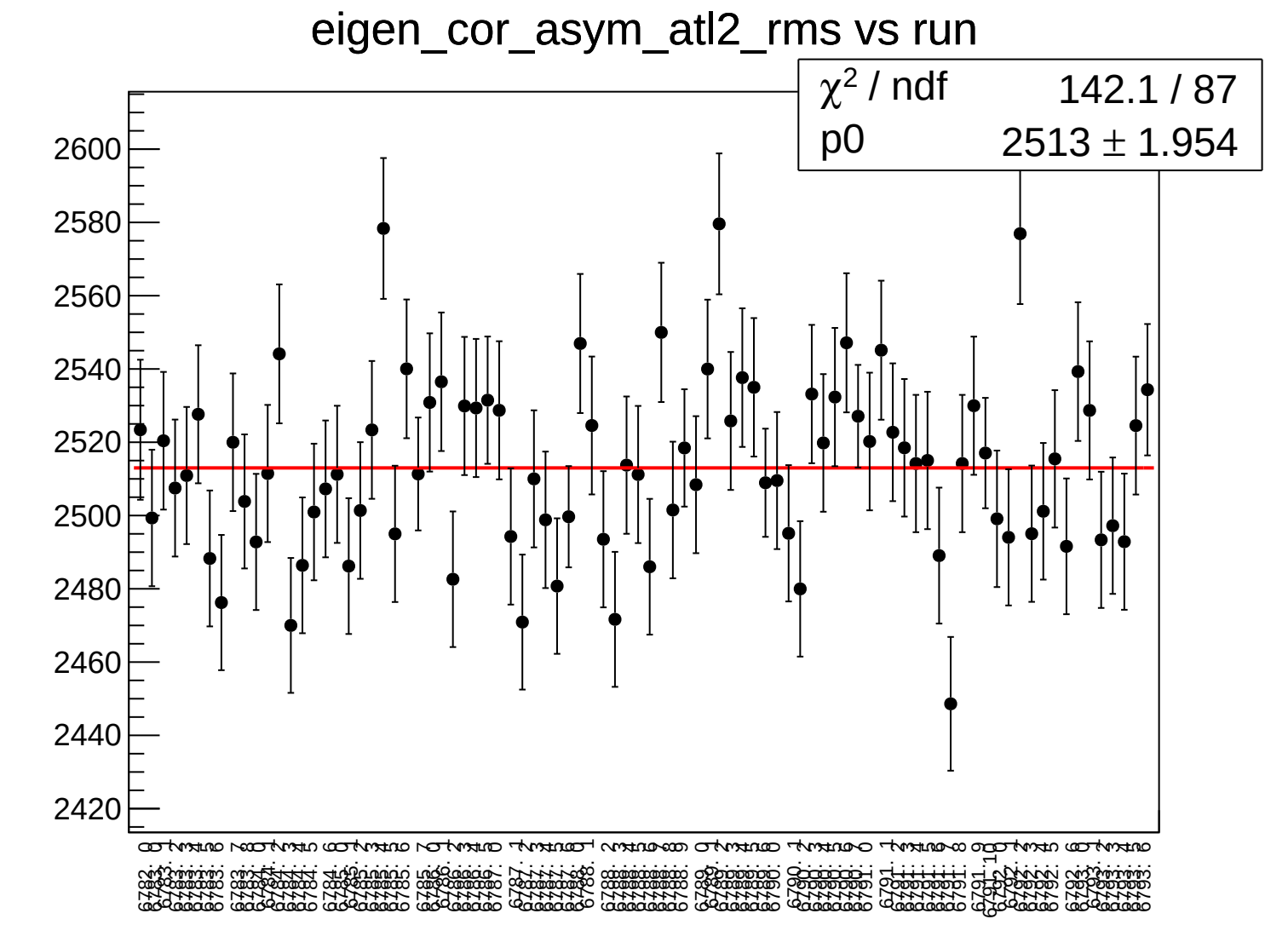

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 94.1 / 87
p0 −8136 ± 8032
pull
Entries 88
Mean −44.01
Std Dev 0

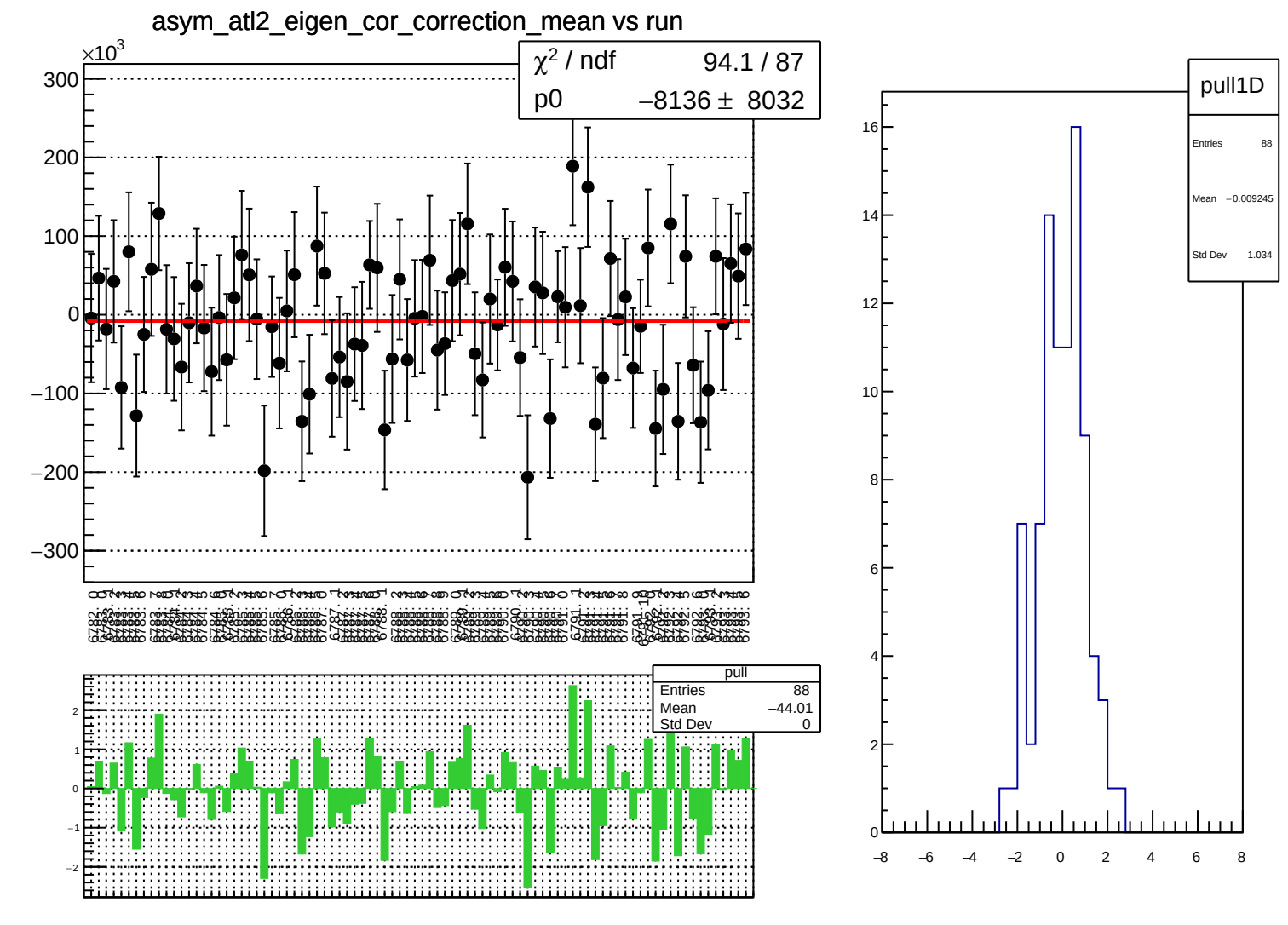

pull1D
Entries 88
Mean −0.009245
Std Dev 1.034

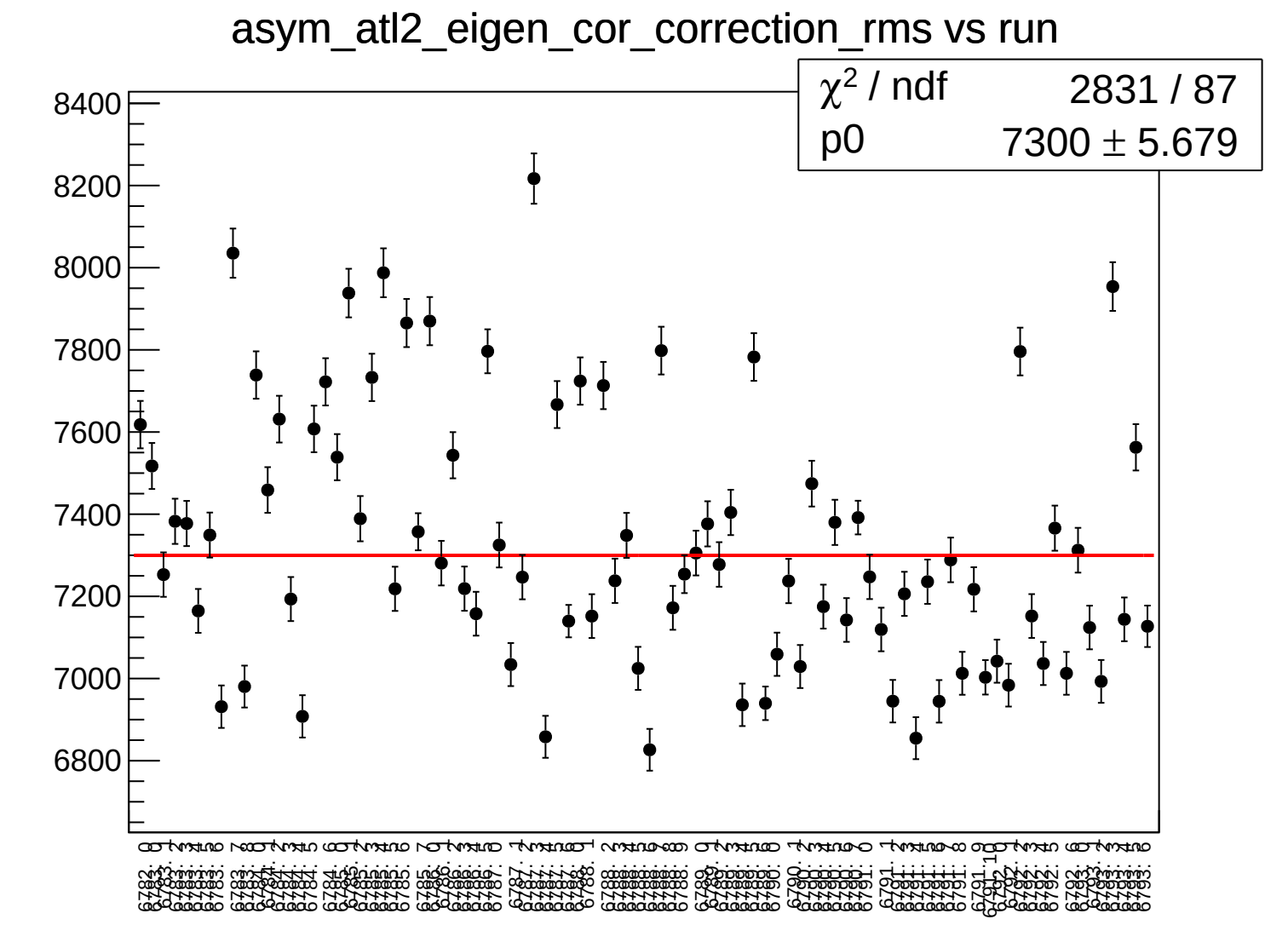

asym_atl2_cor_correction_rms vs run
χ² / ndf 2831 / 87
p0 7300 ± 5.679
8400
8200
8000
7800
7600
7400
7200
7000
6800

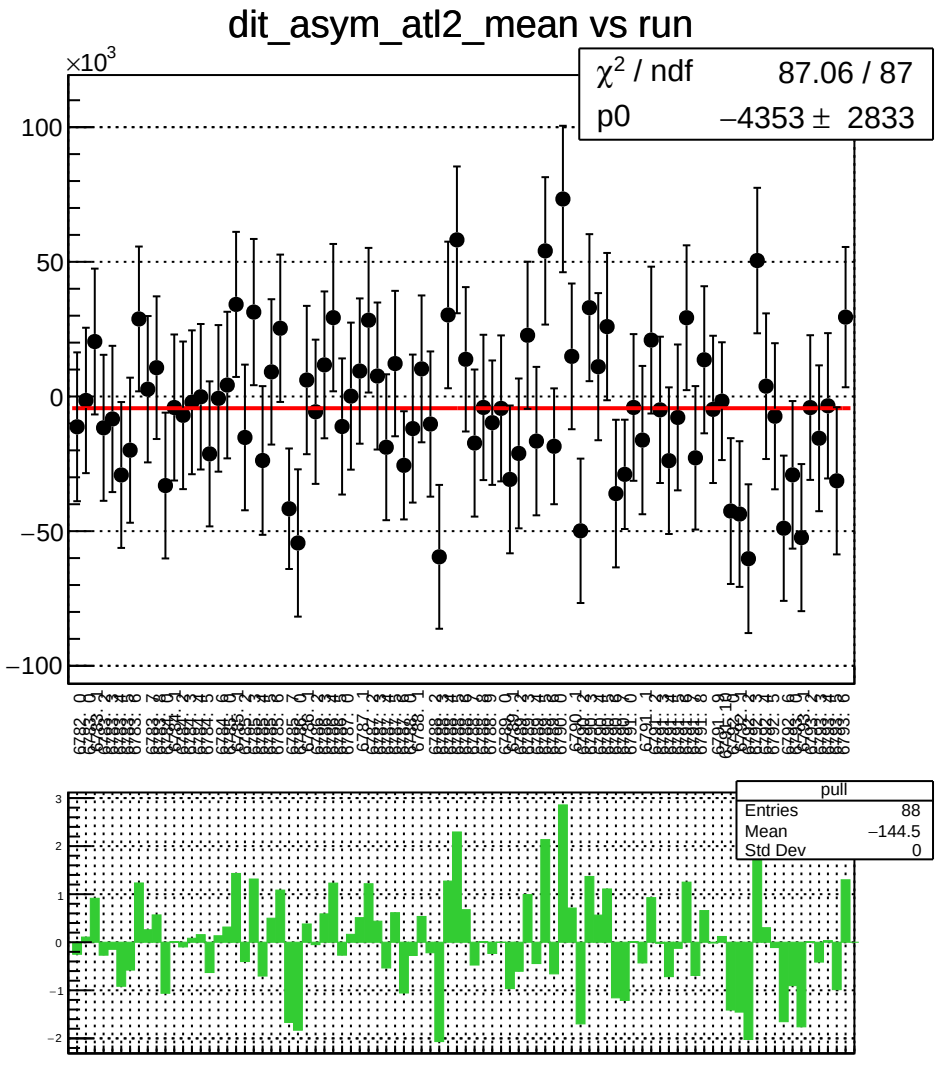

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 88.45 / 87
p0 −3375 ± 2763
100
50
0
−50
−100
pull
Entries 88
Mean −91.61
Std Dev 0
3
2
1
0
−1
−2

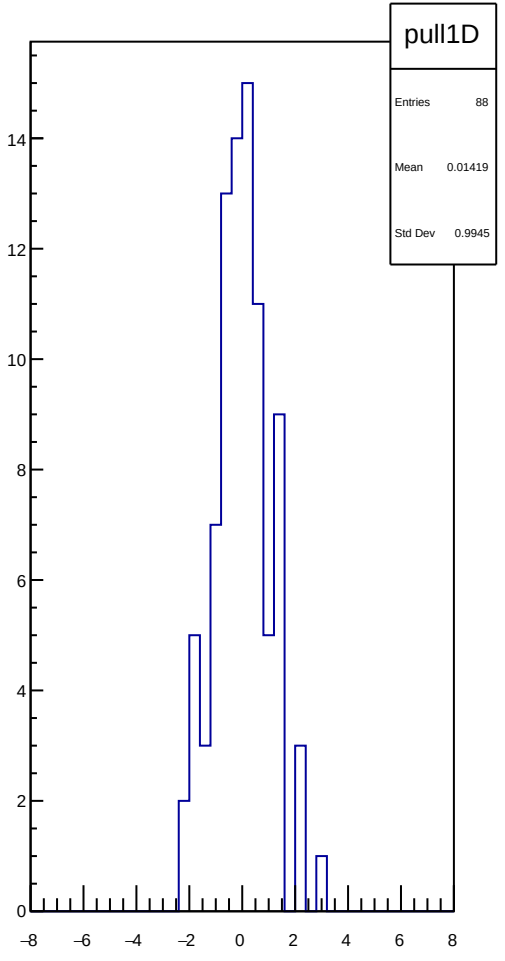

pull1D
Entries 88
Mean 0.01561
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

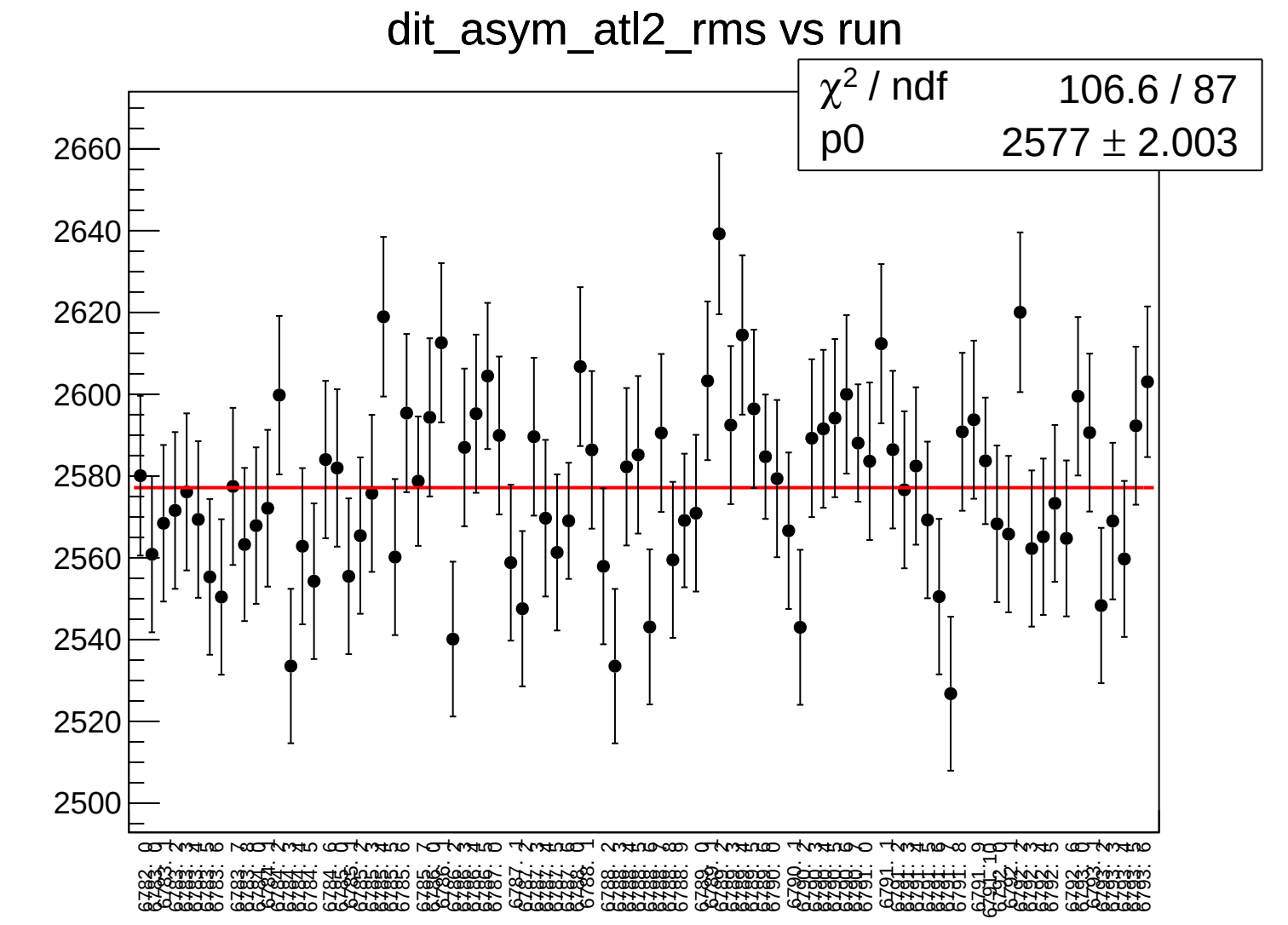

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 142.1 / 87
p0 2513 ± 1.954
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

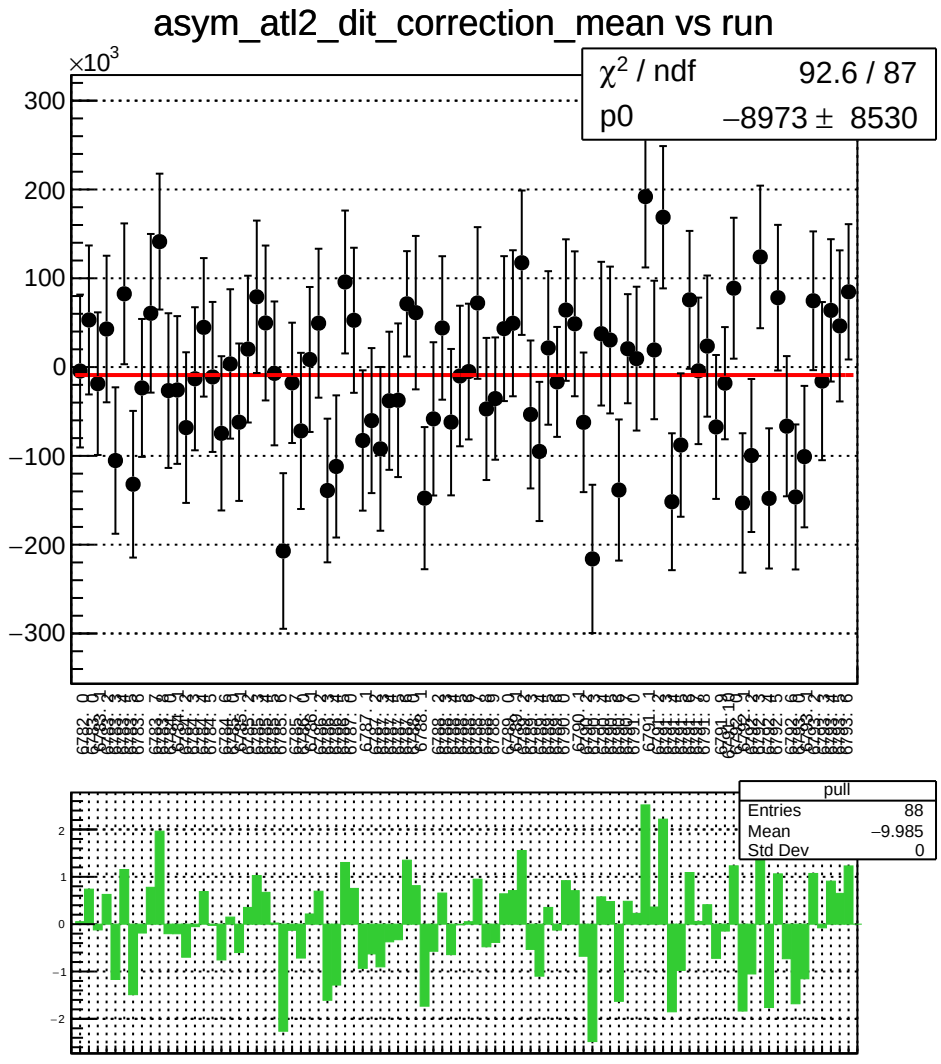

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.1 / 87
p0 −8136 ± 8032
pull
Entries 88
Mean −44.01
Std Dev 0
pull1D
Entries 88
Mean −0.009245
Std Dev 1.034

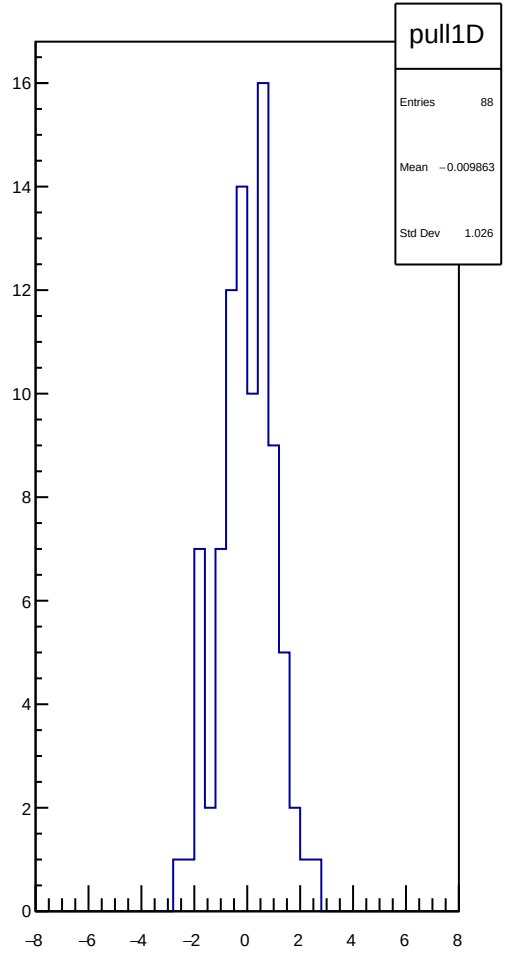

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2831 / 87
p0 7300 ± 5.679
8400
8200
8000
7800
7600
7400
7200
7000
6800

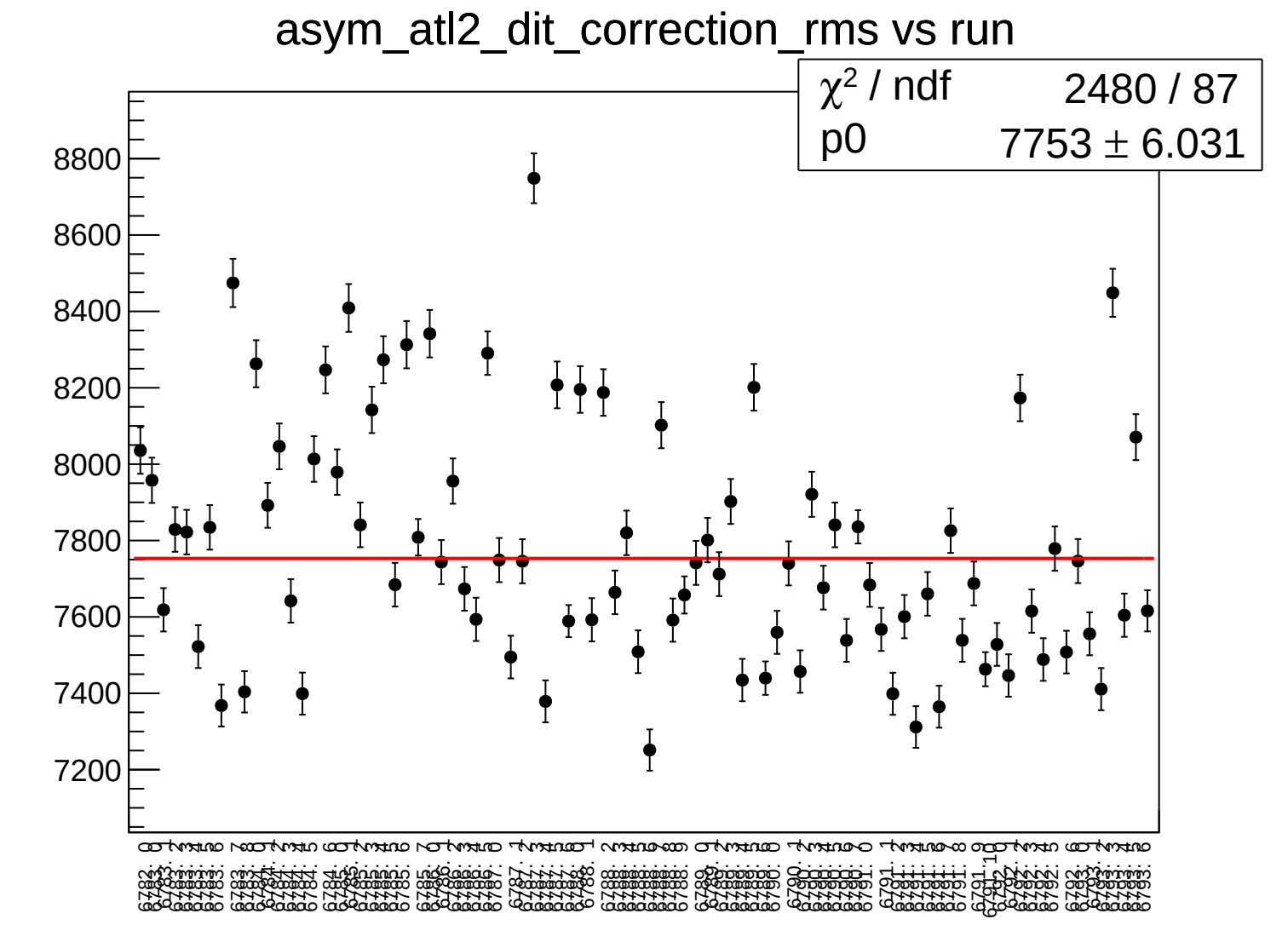

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 87.06 / 87
p0 −4353 ± 2833
100
50
0
−50
−100
pull
Entries 88
Mean −144.5
Std Dev 0
3
2
1
0
−1
−2

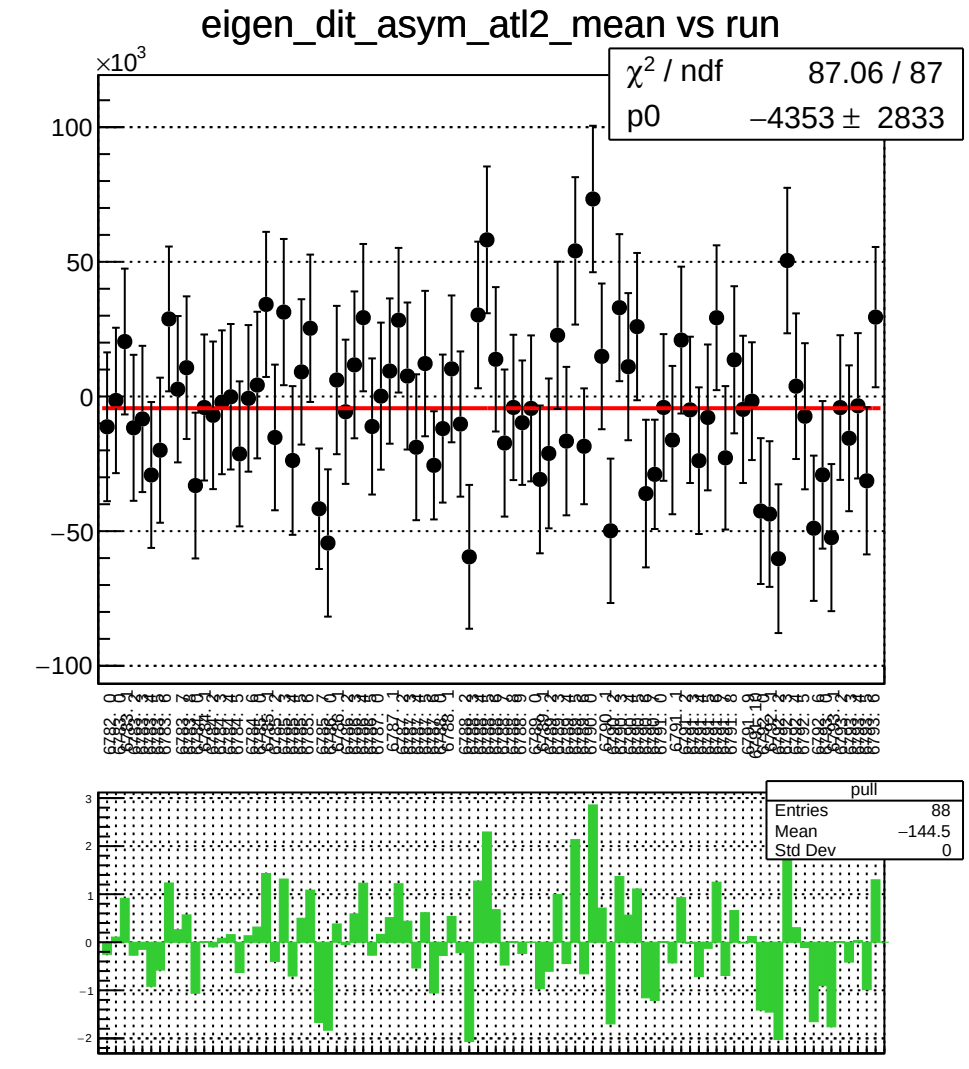

pull1D
Entries 88
Mean 0.01419
Std Dev 0.9945
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

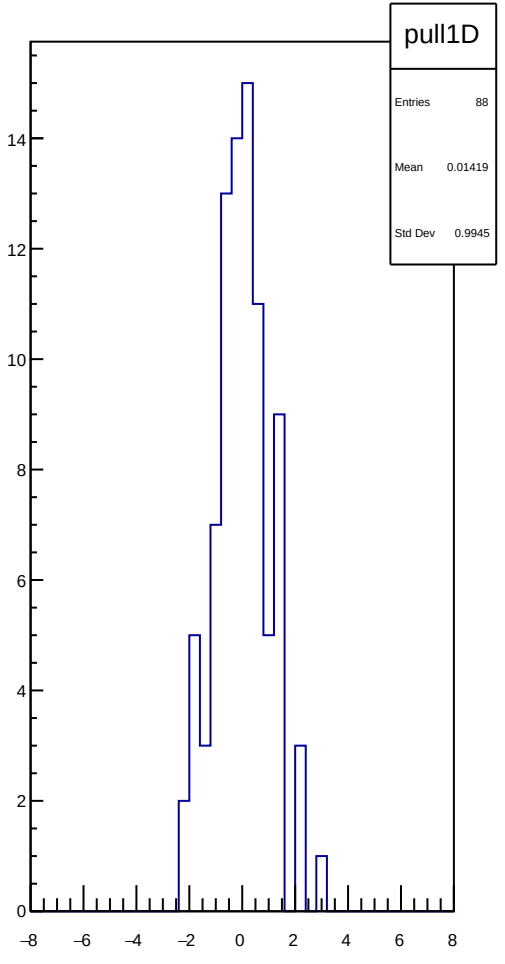

dit_asym_atl2_rms vs run
χ² / ndf 106.6 / 87
p0 2577 ± 2.003
2660
2640
2620
2600
2580
2560
2540
2520
2500

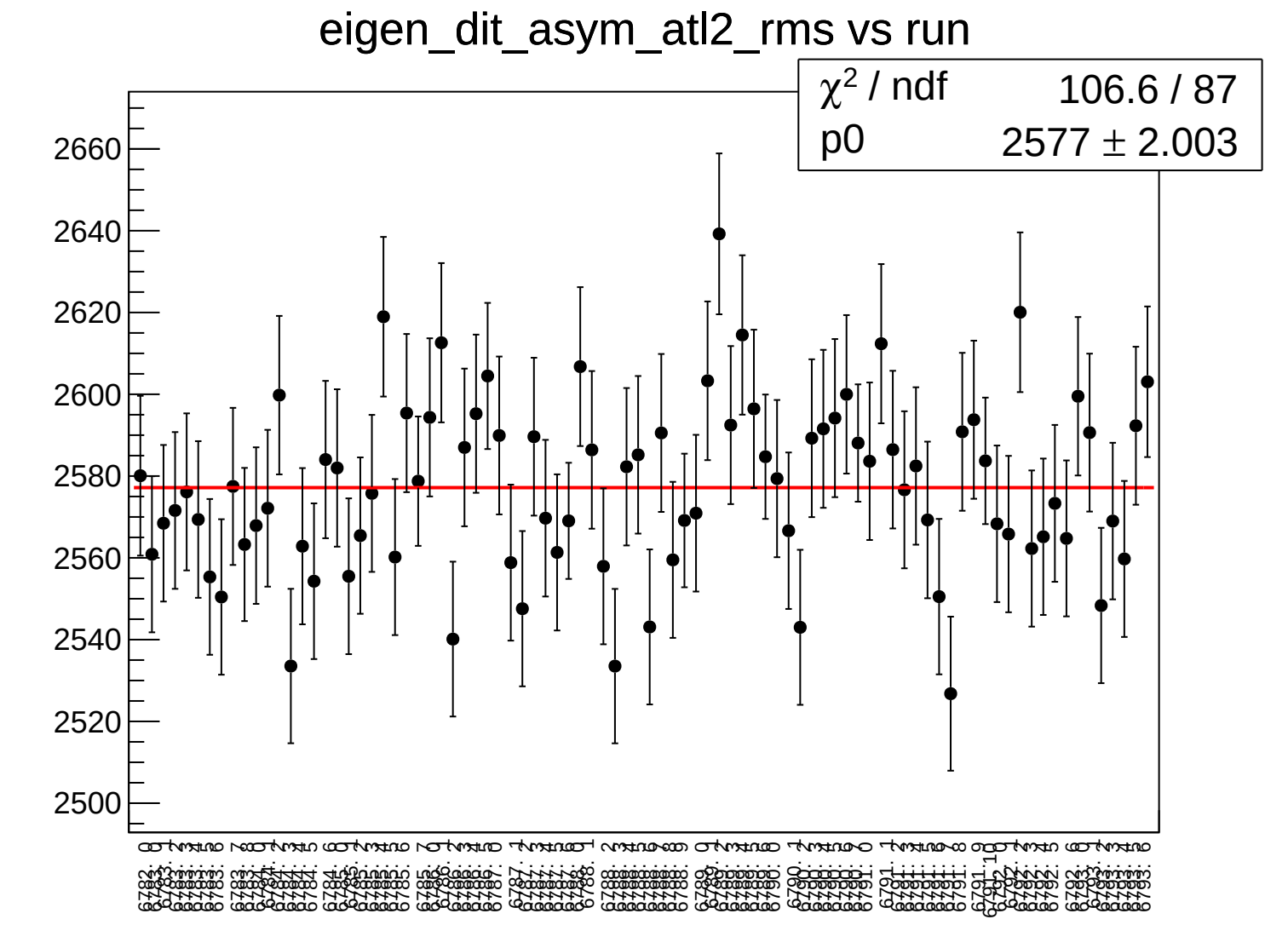

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 92.6 / 87
p0 −8973 ± 8530
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −9.985
Std Dev 0
2
1
0
−1
−2

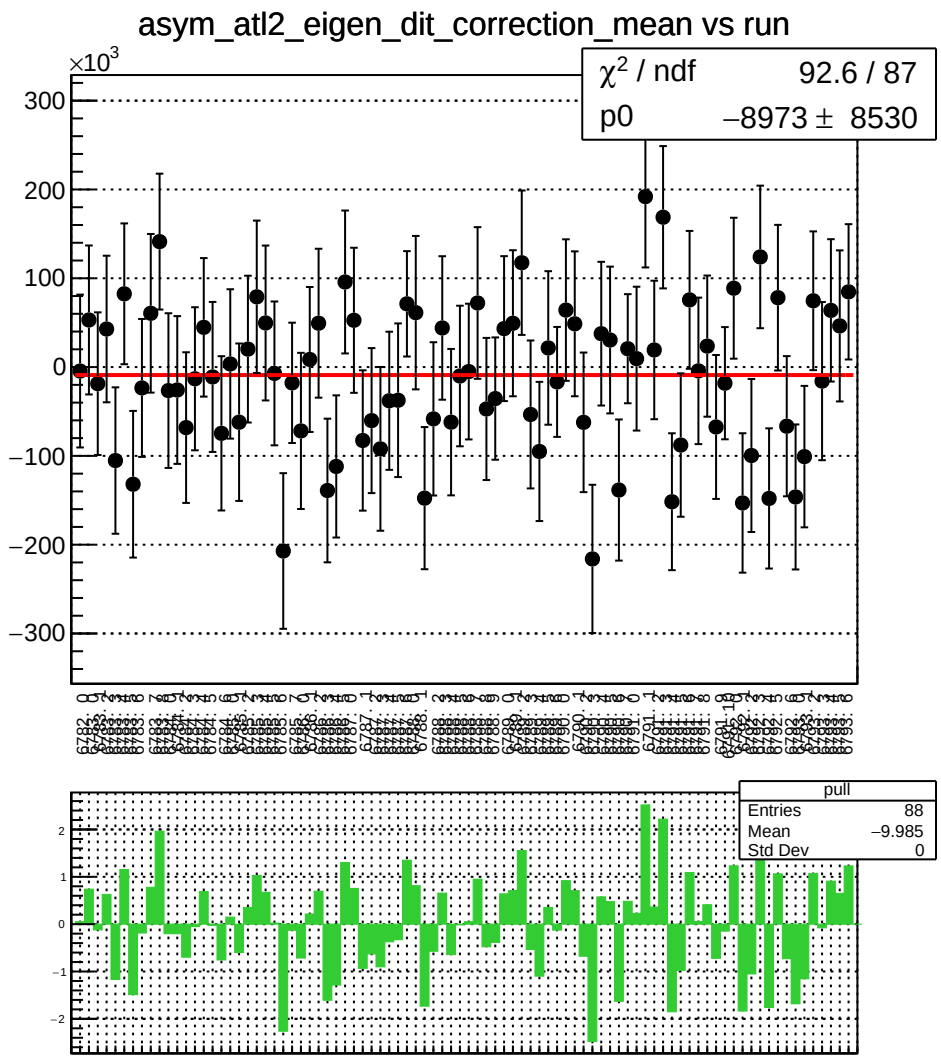

pull1D
Entries 88
Mean −0.009863
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

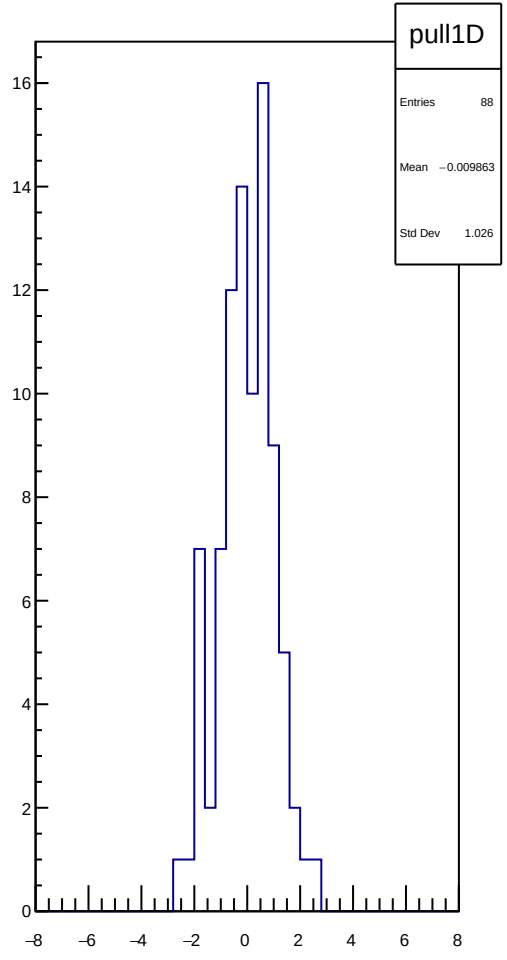

asym_atl2_dit_correction_rms vs run
χ² / ndf 2480 / 87
p0 7753 ± 6.031
8800
8600
8400
8200
8000
7800
7600
7400
7200

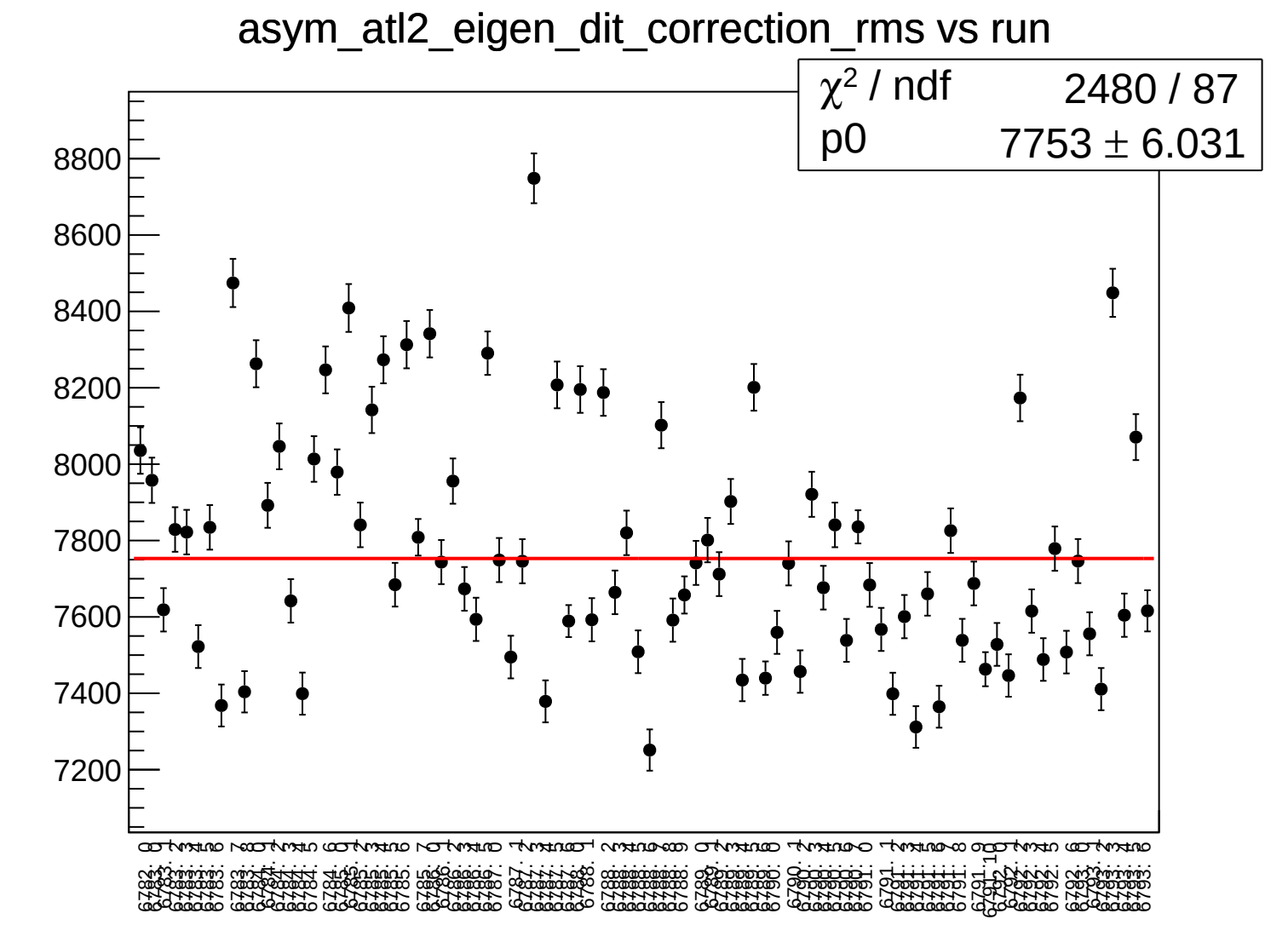

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 87.06 / 87
p0 −4353 ± 2833
100
50
0
−50
−100
pull
Entries 88
Mean −144.5
Std Dev 0
3
2
1
0
−1
−2

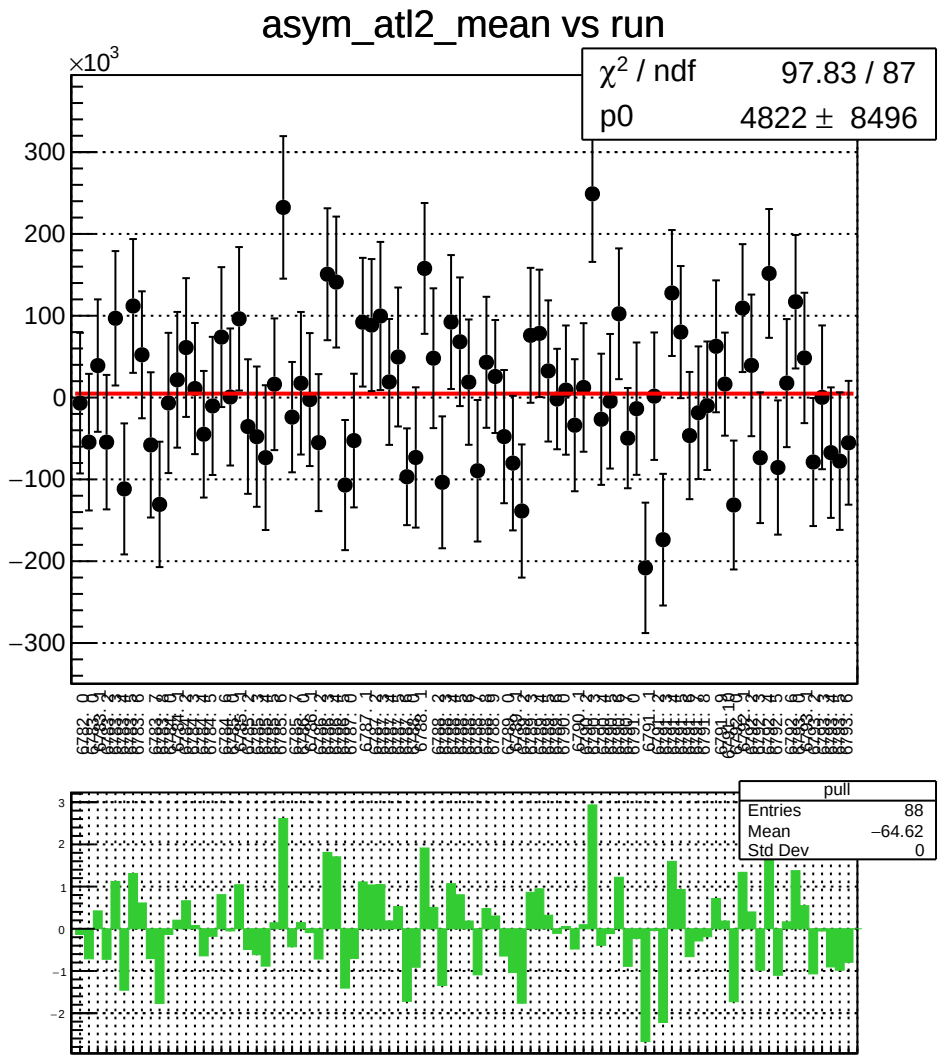

pull1D
Entries 88
Mean 0.01419
Std Dev 0.9945
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

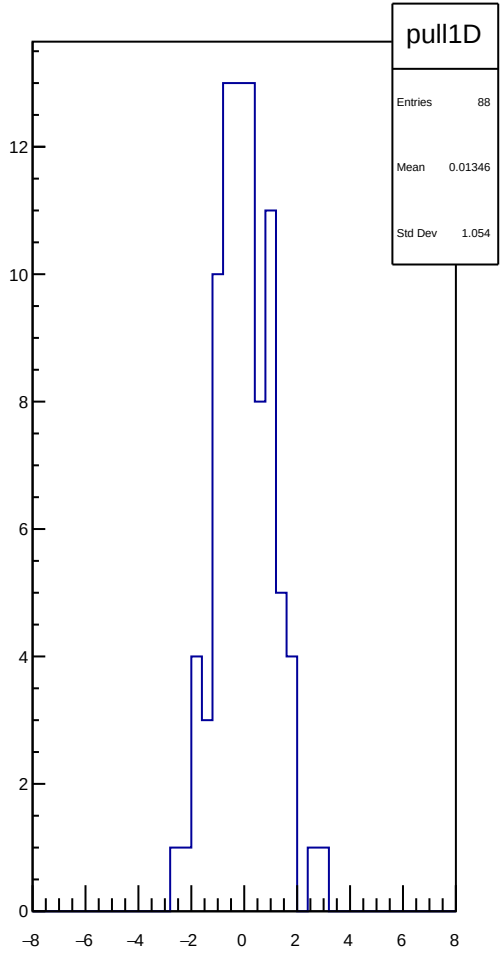

eigen_dit_asym_atl2_rms vs run
χ² / ndf 106.6 / 87
p0 2577 ± 2.003
2660
2640
2620
2600
2580
2560
2540
2520
2500

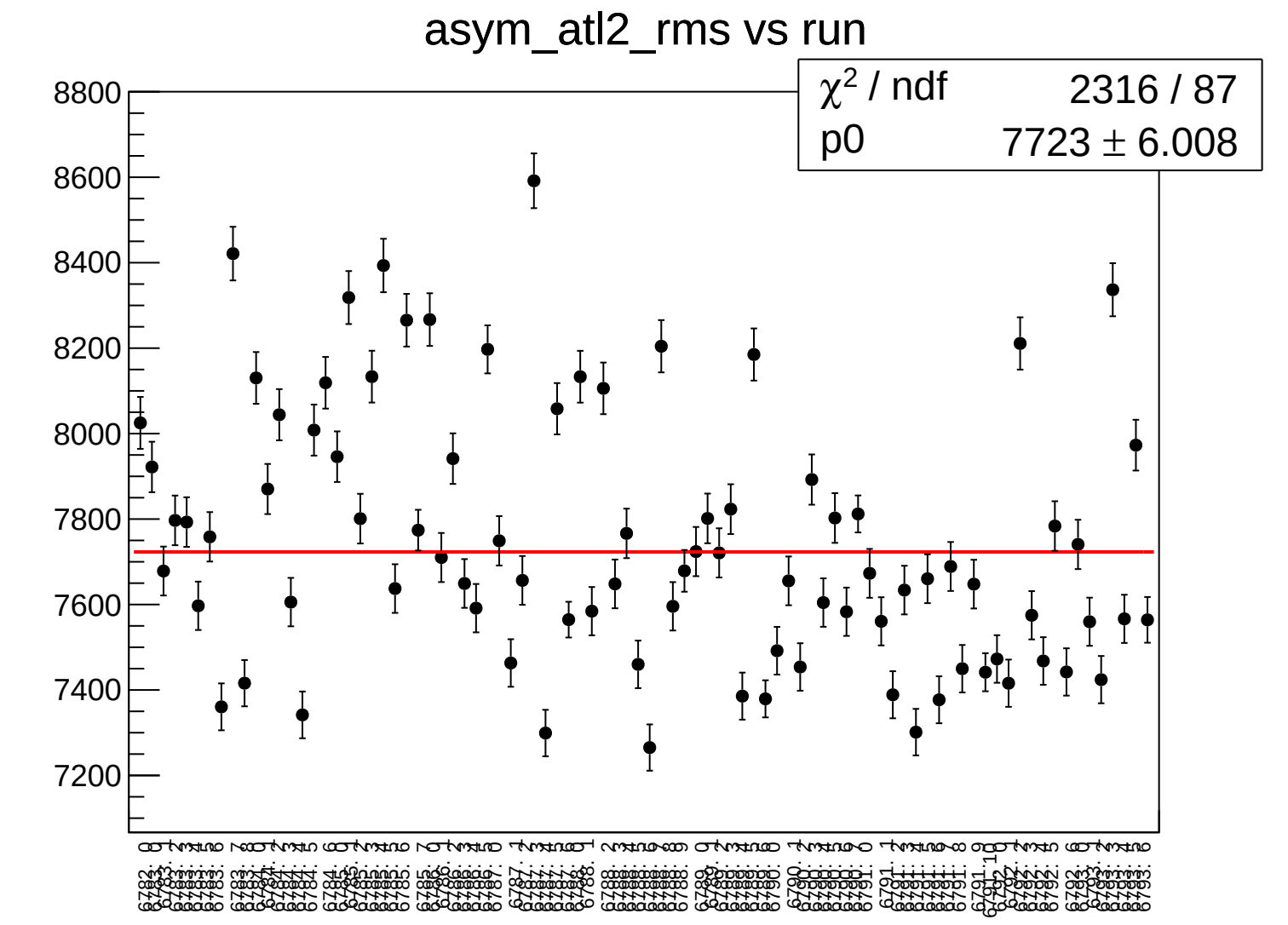

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.6 / 87
p0 −8973 ± 8530
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −9.985
Std Dev 0
2
1
0
−1
−2

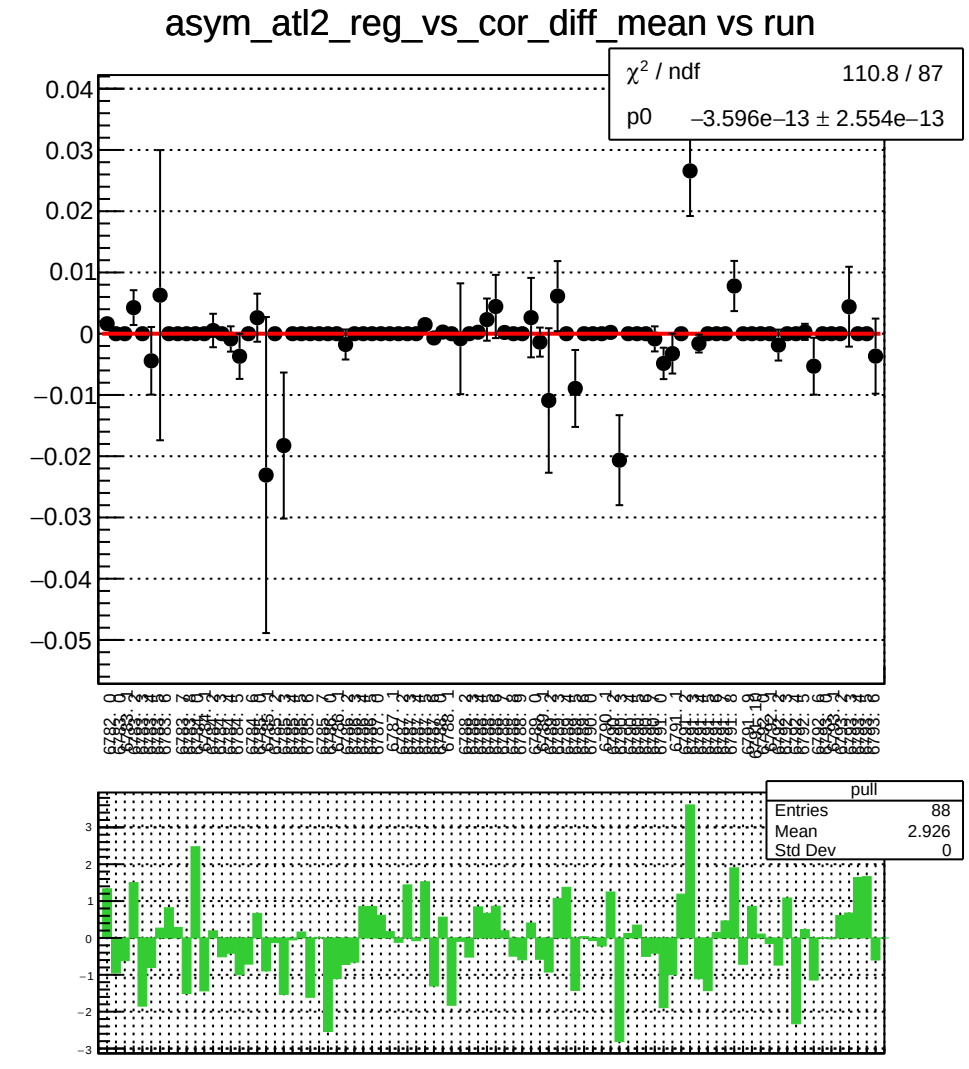

pull1D
Entries 88
Mean −0.009863
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

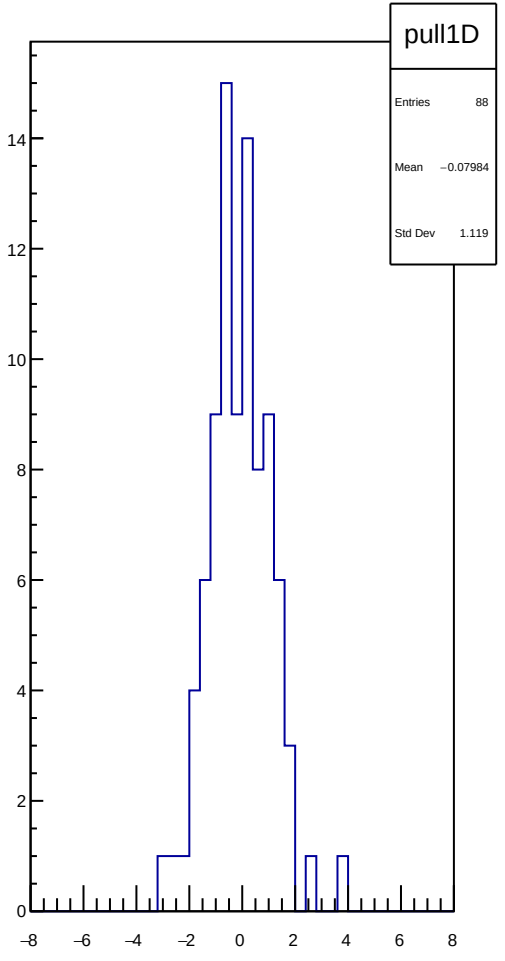

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2480 / 87
p0 7753 ± 6.031
8800
8600
8400
8200
8000
7800
7600
7400
7200

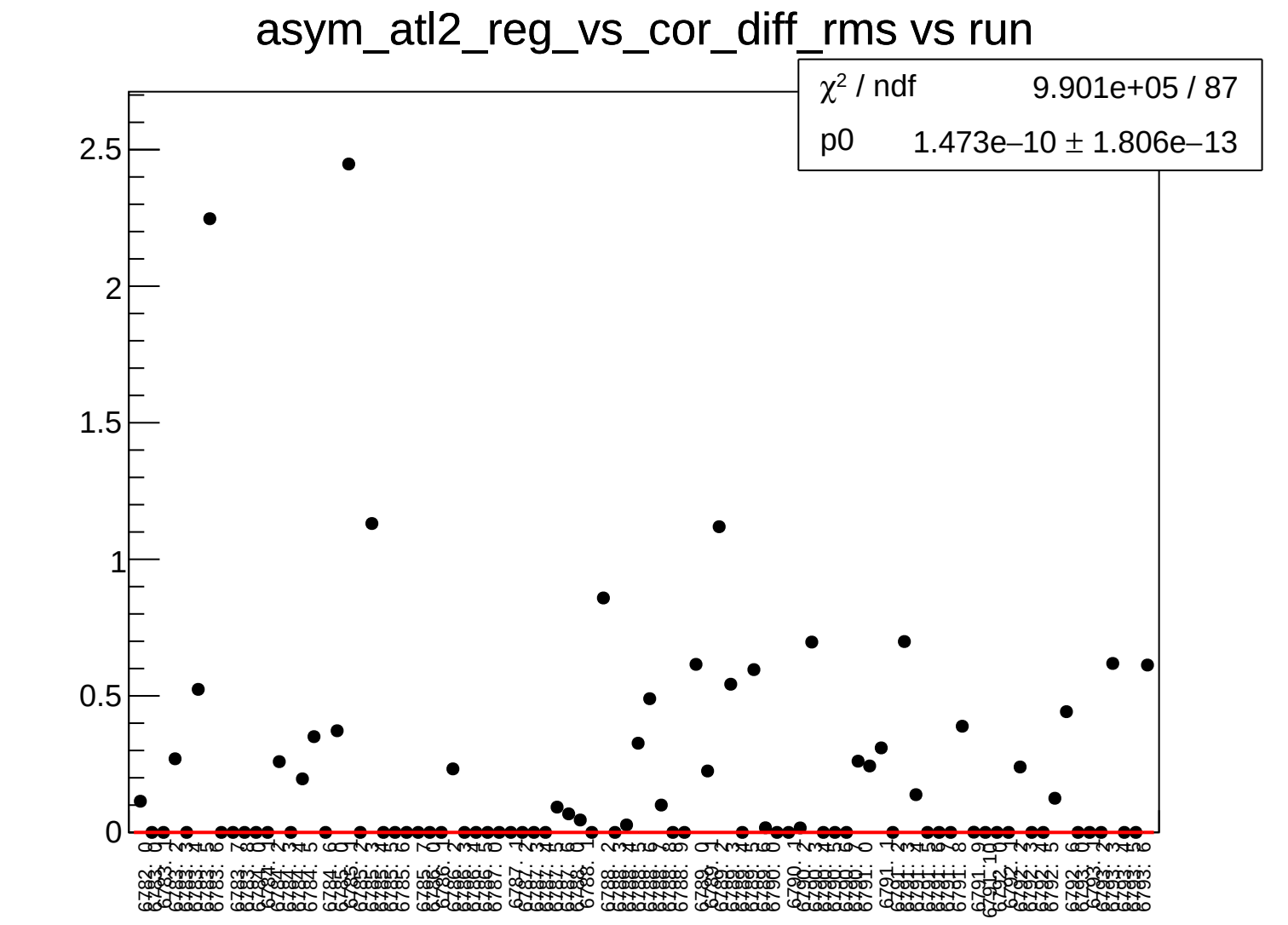

asym_atl2_mean vs run
×10^3
χ^2 / ndf 97.83 / 87
p0 4822 ± 8496
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −64.62
Std Dev 0
3
2
1
0
−1
−2

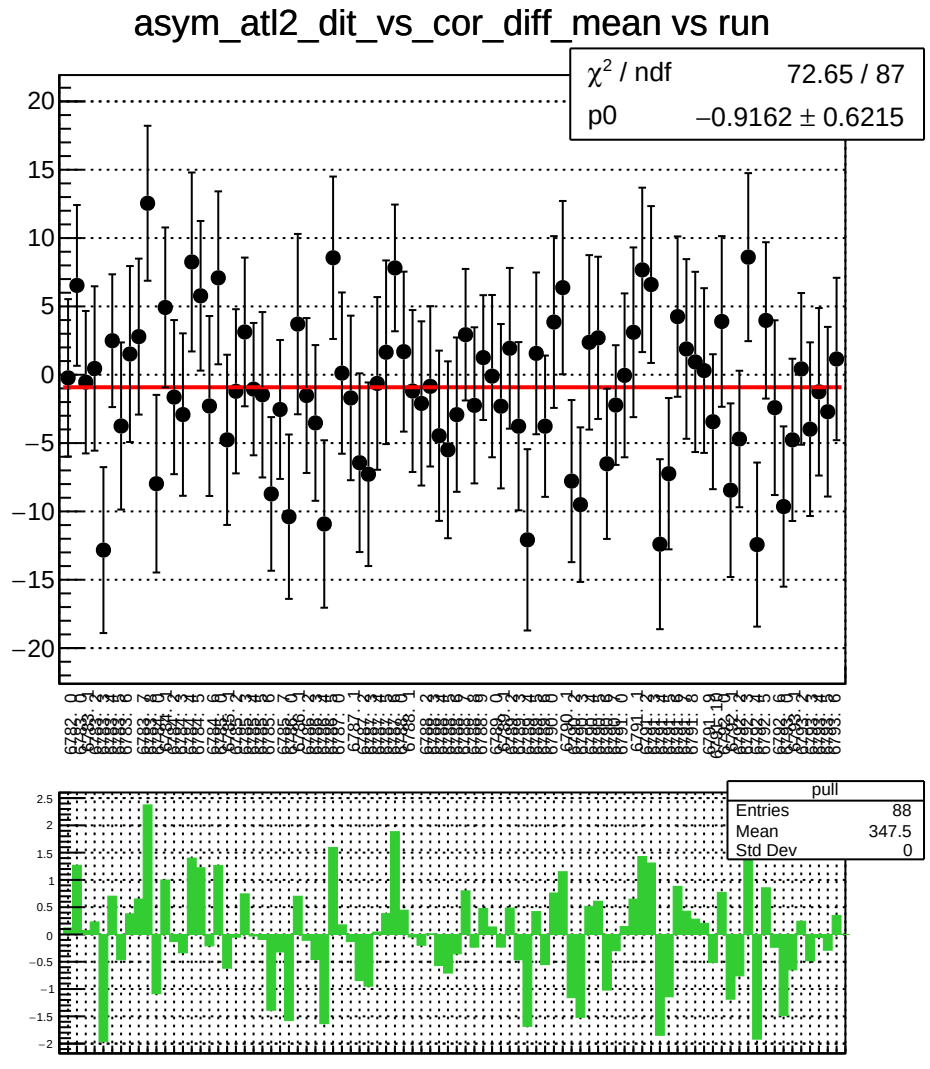

pull1D
Entries 88
Mean 0.01346
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

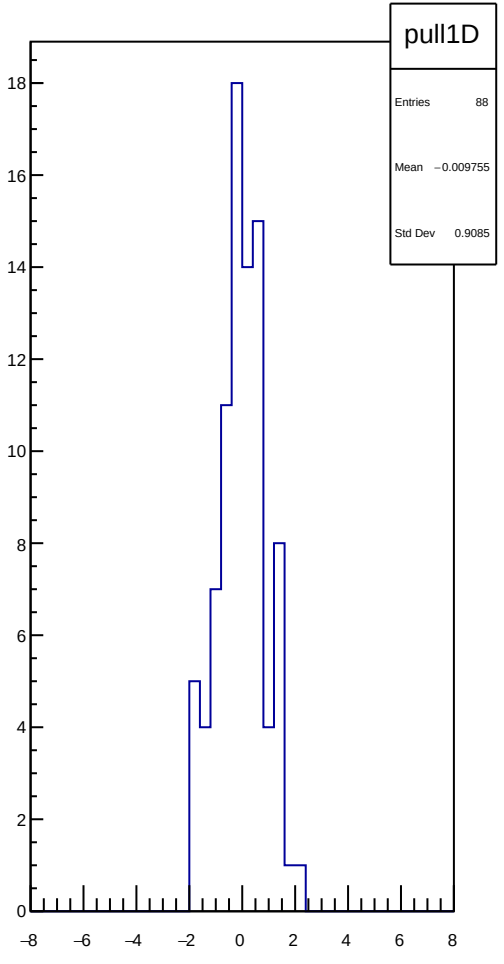

asym_atl2_rms vs run
χ² / ndf 2316 / 87
p0 7723 ± 6.008
8800
8600
8400
8200
8000
7800
7600
7400
7200

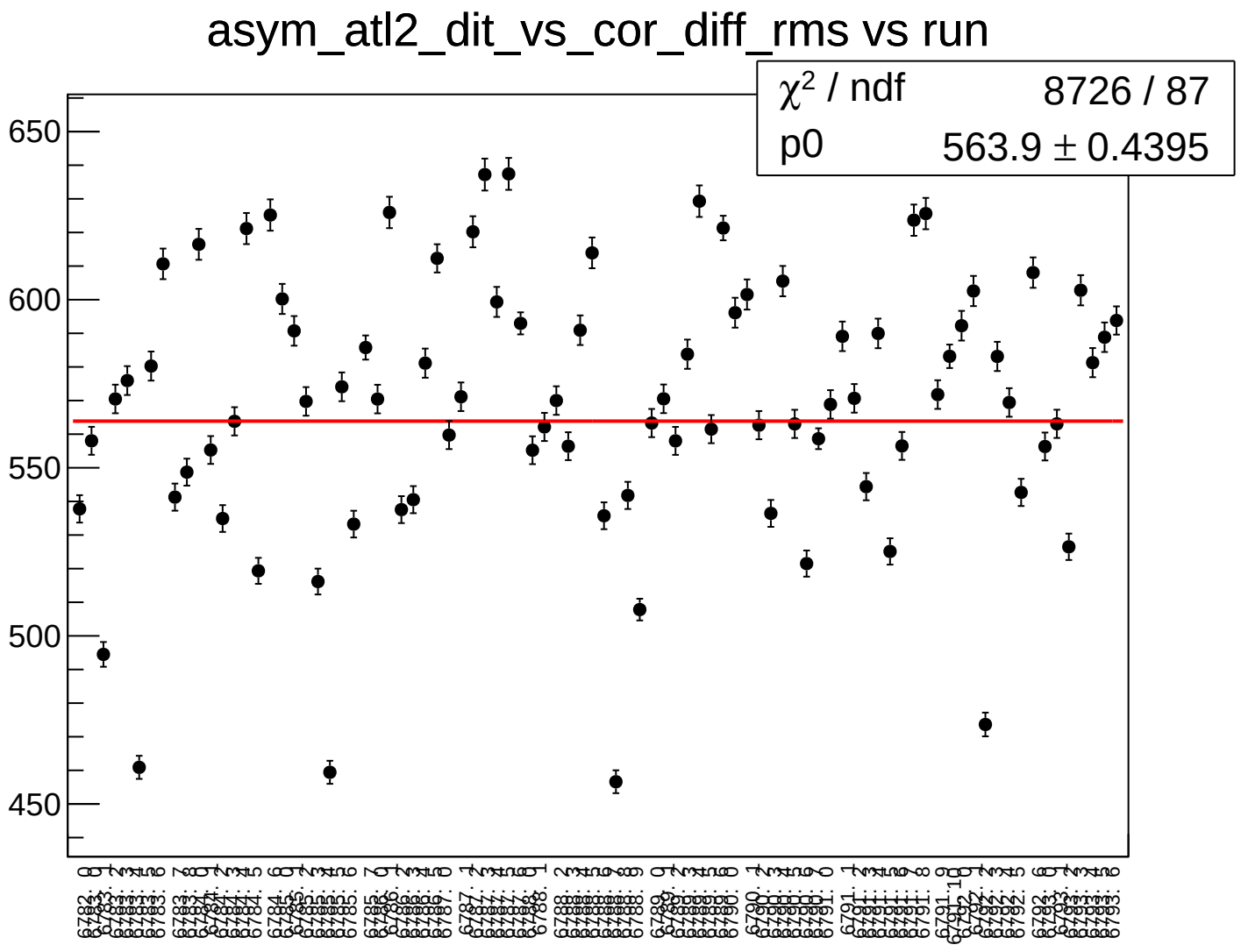

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 110.8 / 87
p0 −3.596e−13 ± 2.554e−13
pull
Entries 88
Mean 2.926
Std Dev 0

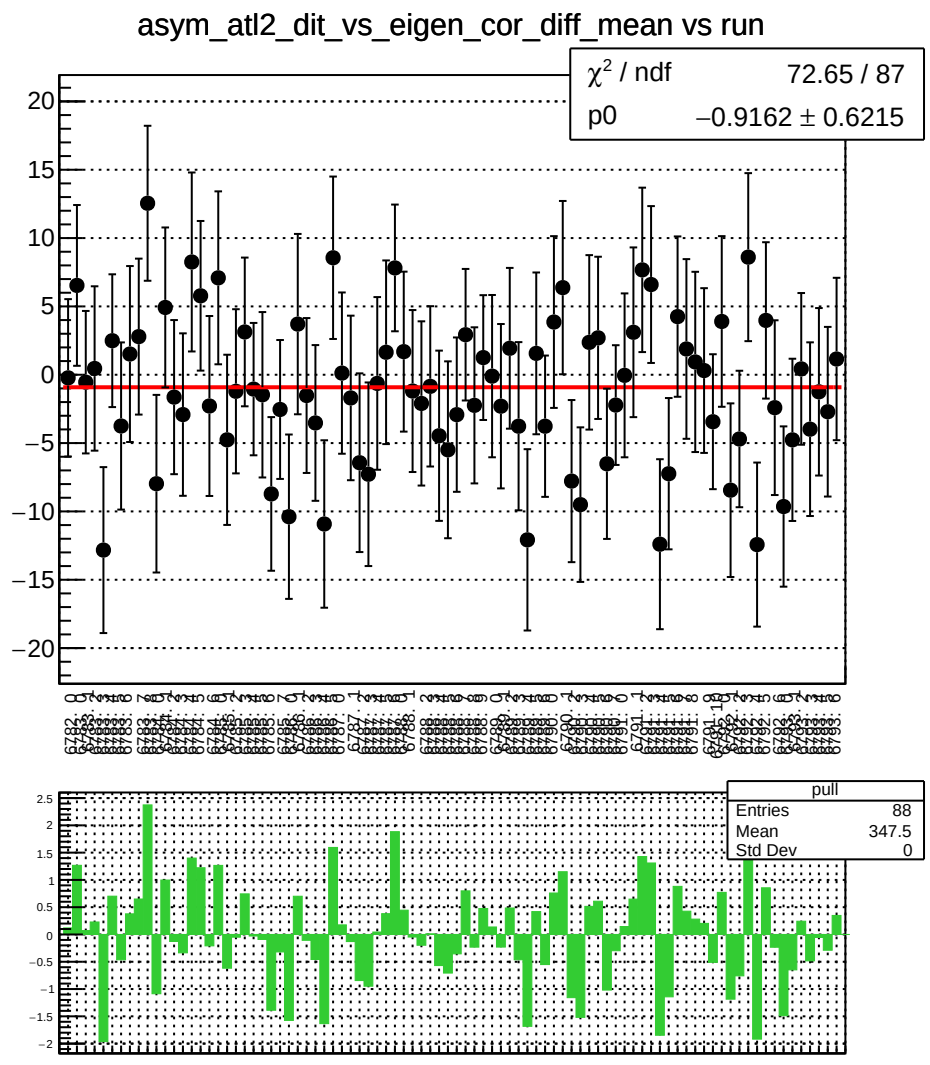

pull1D
Entries 88
Mean −0.07984
Std Dev 1.119

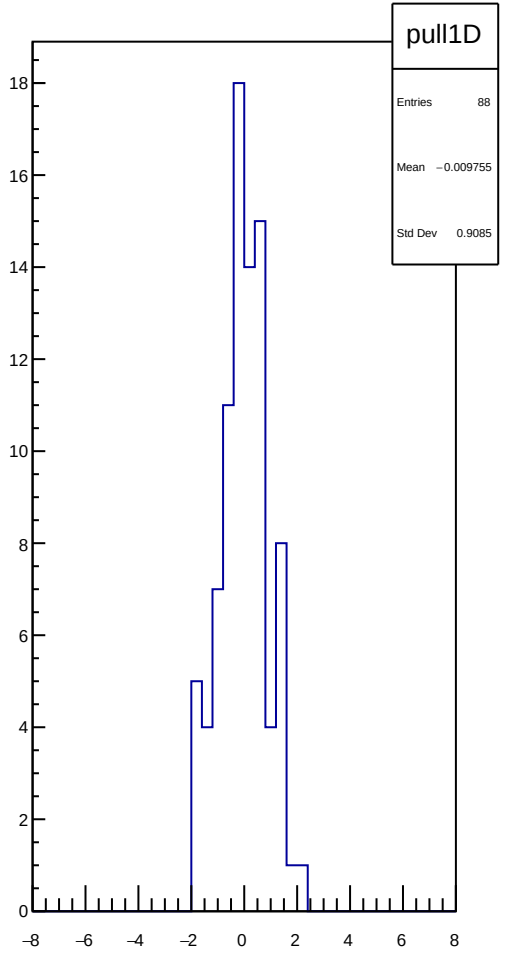

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.901e+05 / 87
p0 1.473e−10 ± 1.806e−13
2.5
2
1.5
1
0.5
0

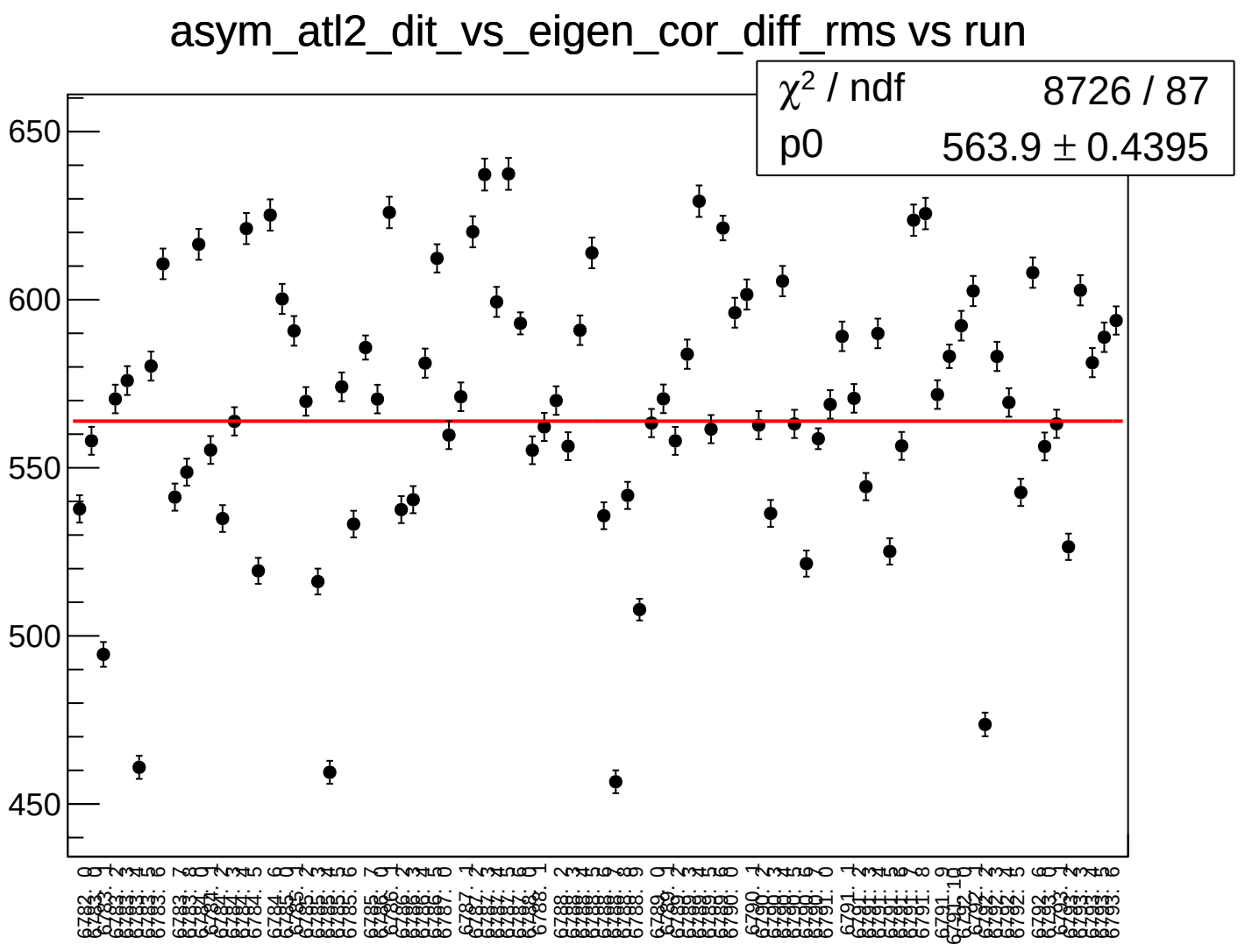

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 72.65 / 87
p0 −0.9162 ± 0.6215
pull
Entries 88
Mean 347.5
Std Dev 0

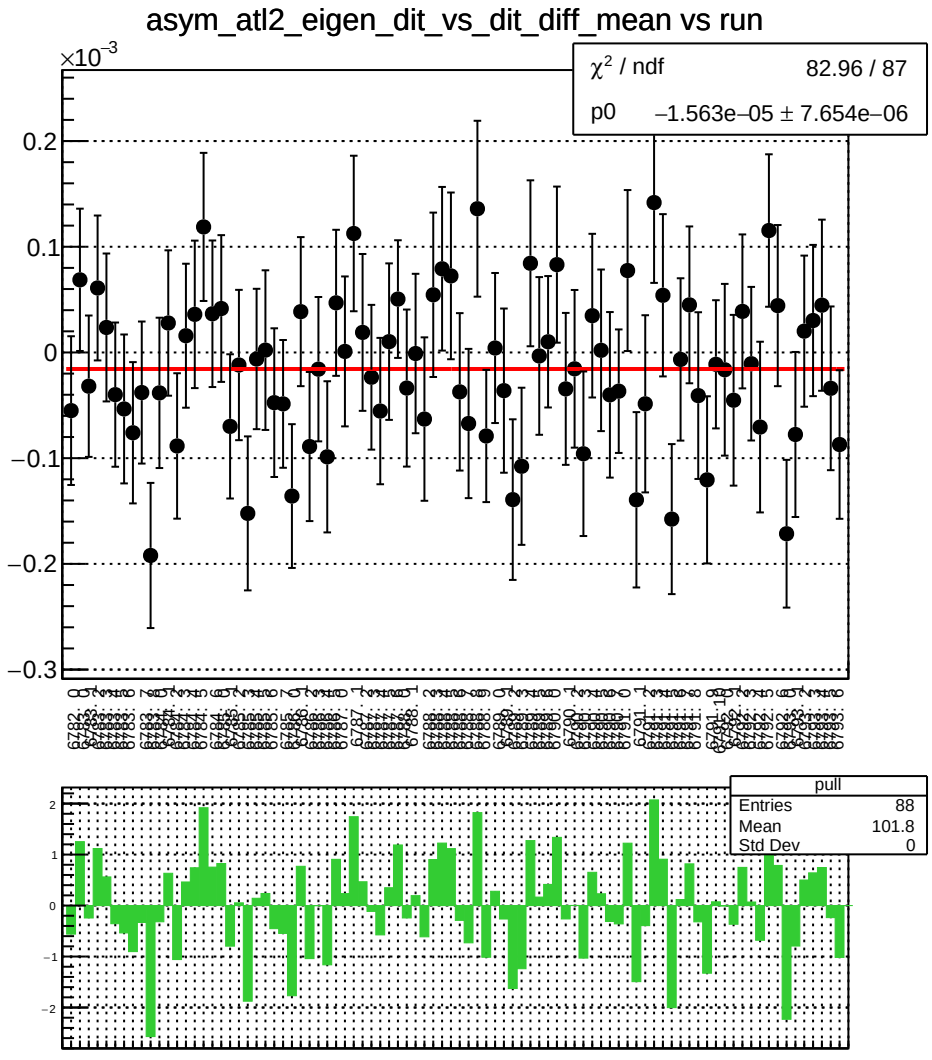

pull1D
Entries 88
Mean −0.009755
Std Dev 0.9085

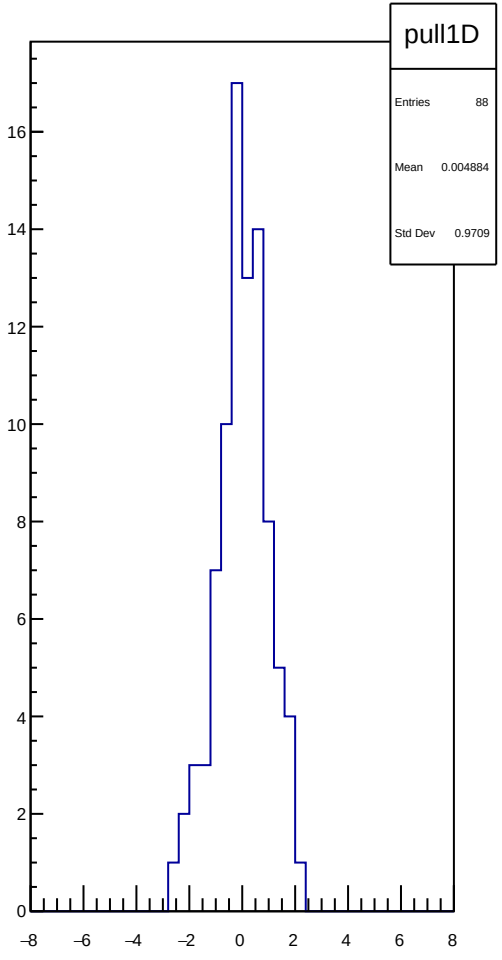

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 8726 / 87
p0 563.9 ± 0.4395
650
600
550
500
450

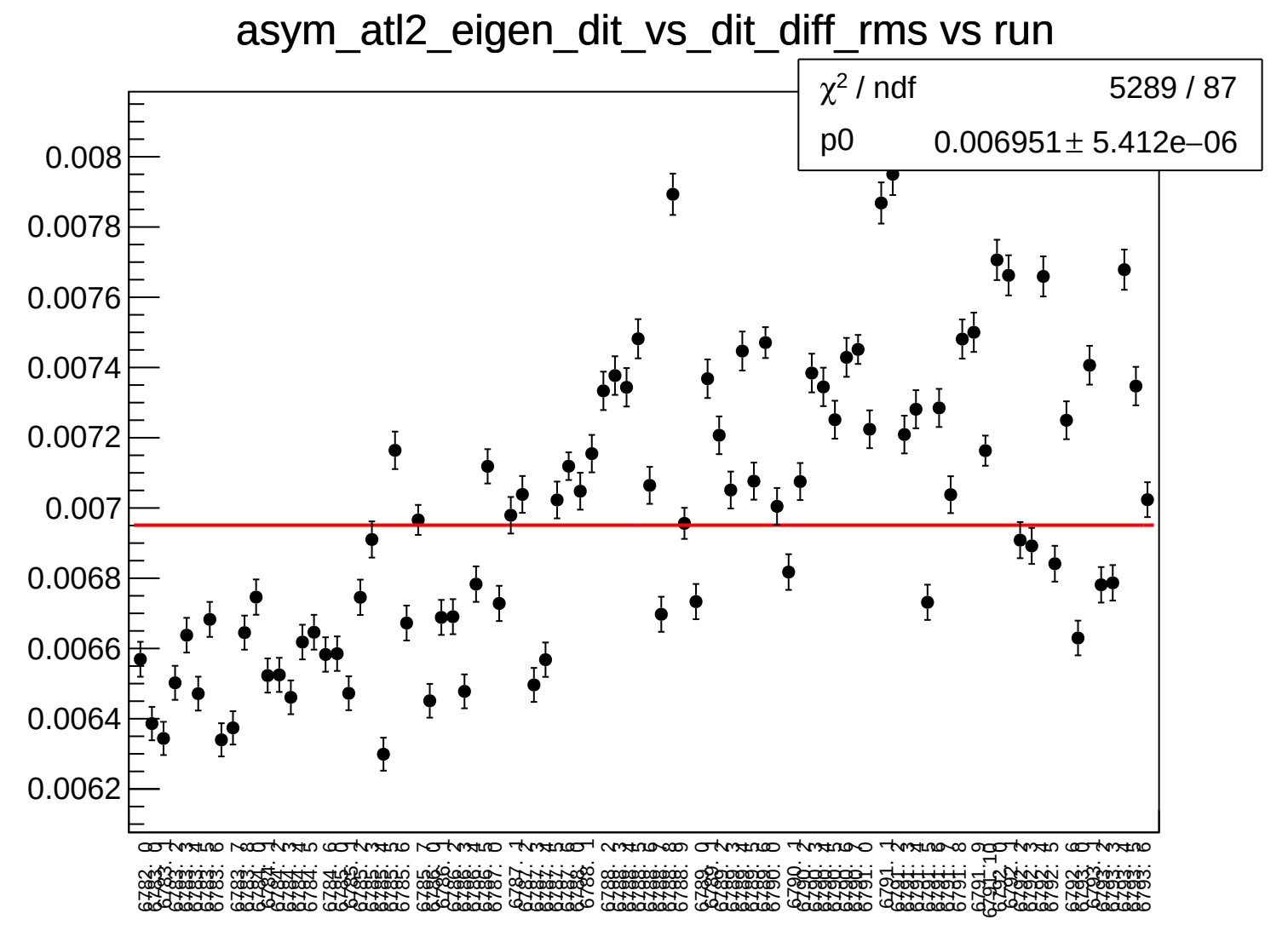

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.65 / 87
p0 −0.9162 ± 0.6215
pull
Entries 88
Mean 347.5
Std Dev 0

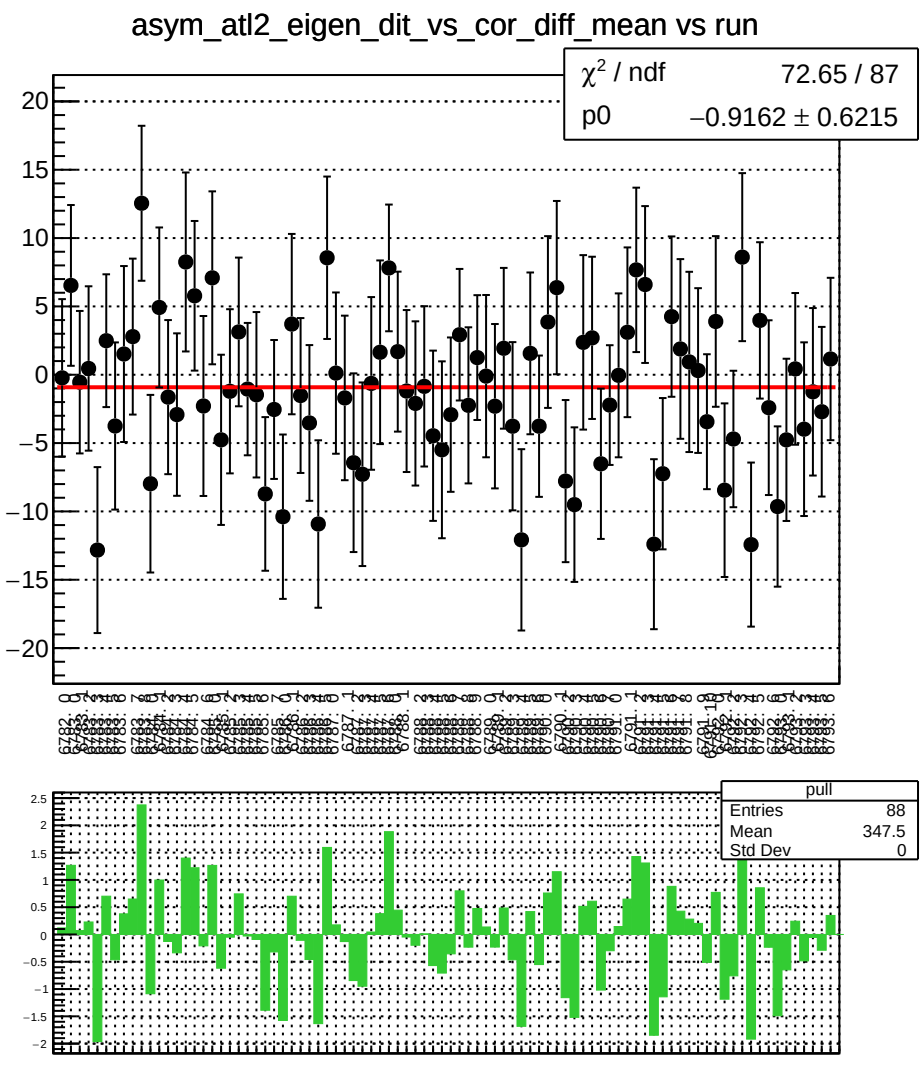

pull1D
Entries 88
Mean −0.009755
Std Dev 0.9085

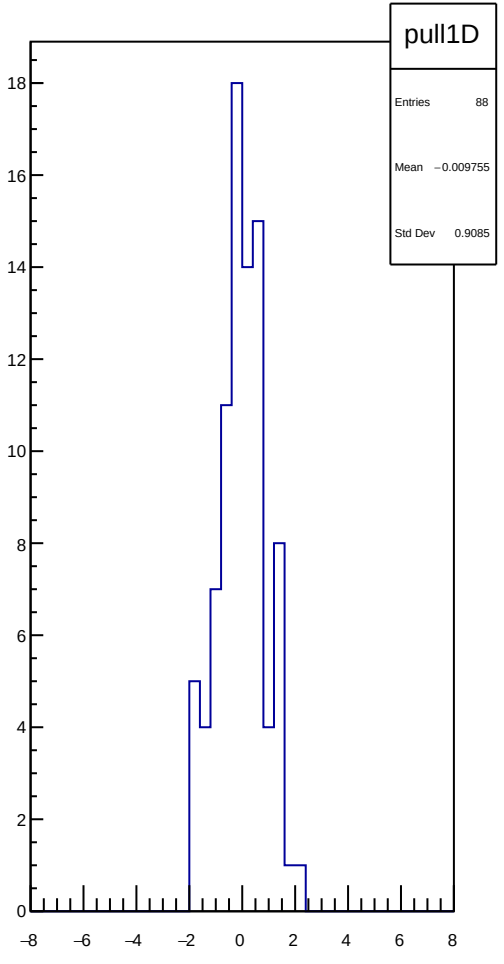

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8726 / 87
p0 563.9 ± 0.4395
650
600
550
500
450

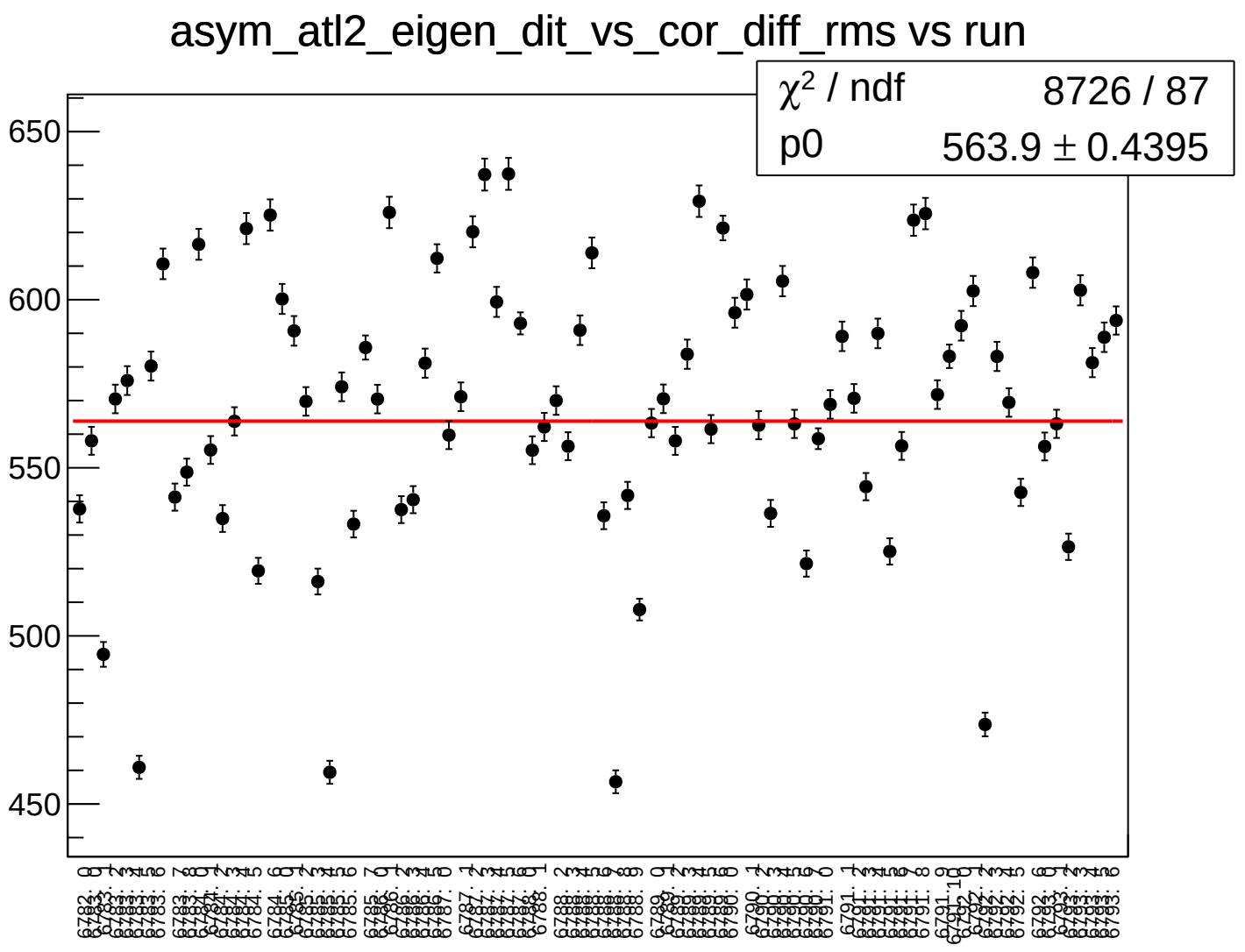

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.96 / 87
p0 −1.563e−05 ± 7.654e−06
pull
Entries 88
Mean 101.8
Std Dev 0

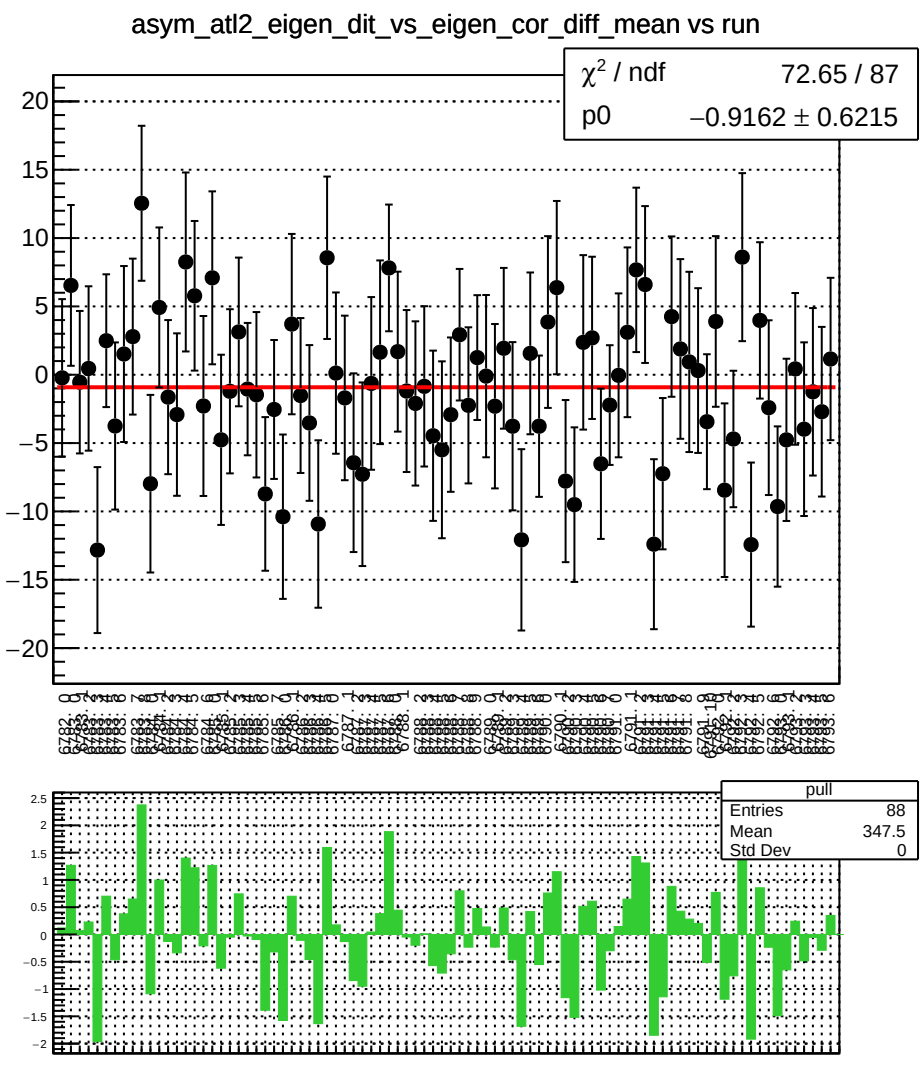

pull1D
Entries 88
Mean 0.004884
Std Dev 0.9709

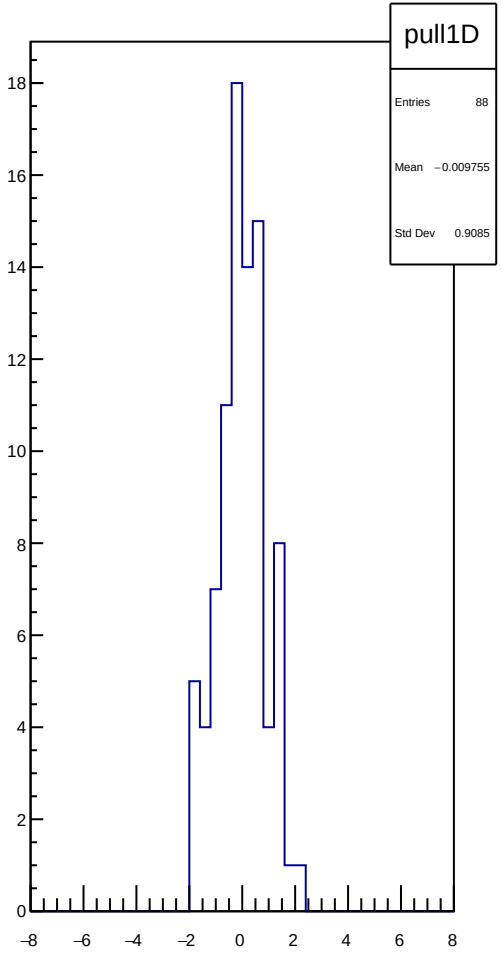

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5289 / 87
p0 0.006951 ± 5.412e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

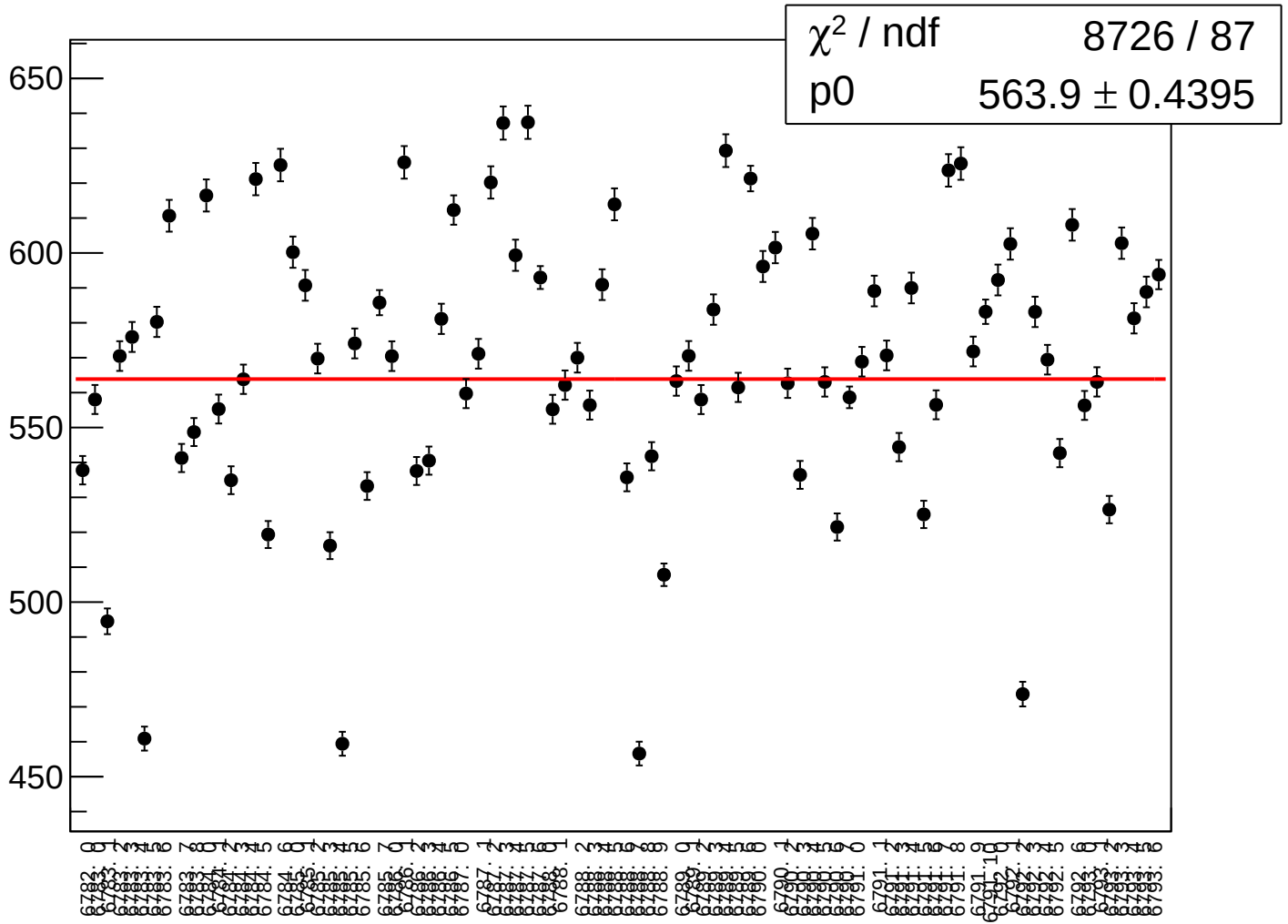

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.65 / 87
p0 −0.9162 ± 0.6215
pull
Entries 88
Mean 347.5
Std Dev 0

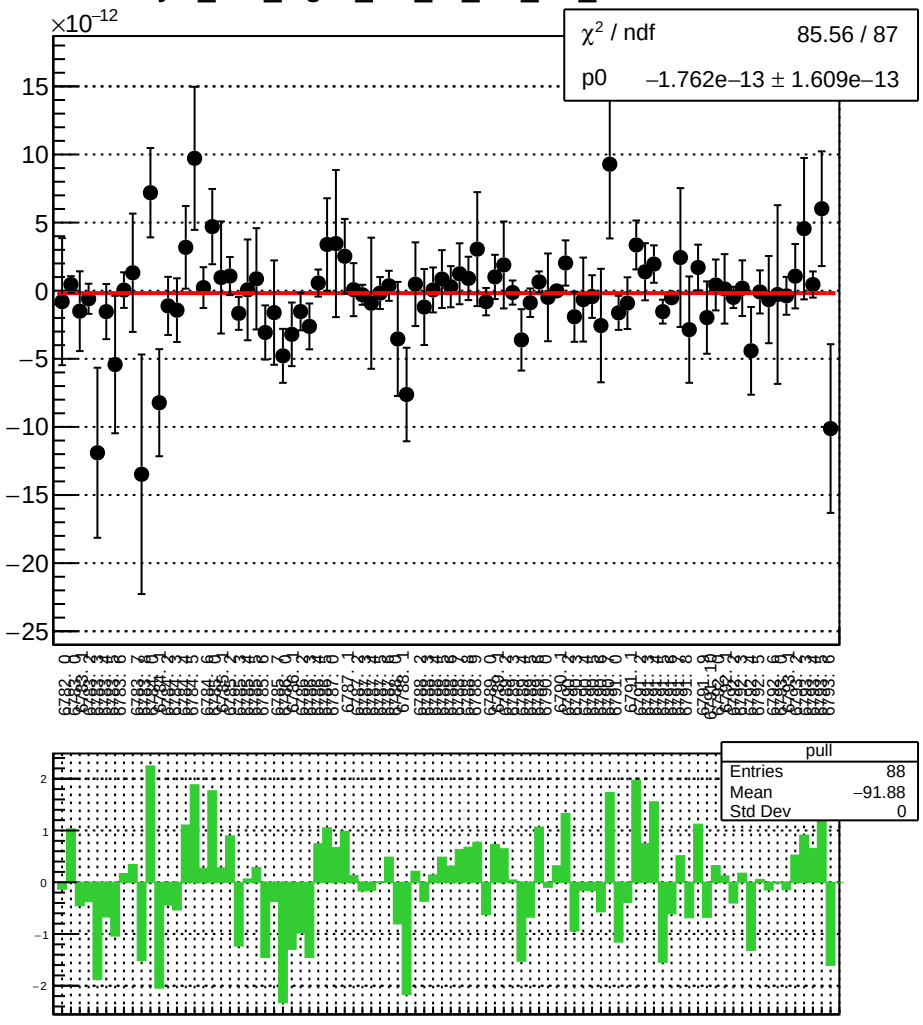

pull1D
Entries 88
Mean −0.009755
Std Dev 0.9085

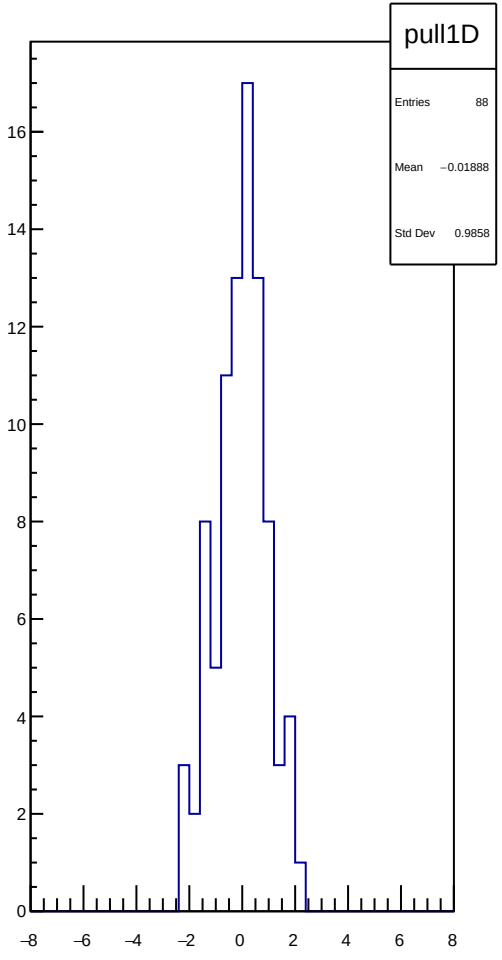

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8726 / 87
p0 563.9 ± 0.4395
650
600
550
500
450

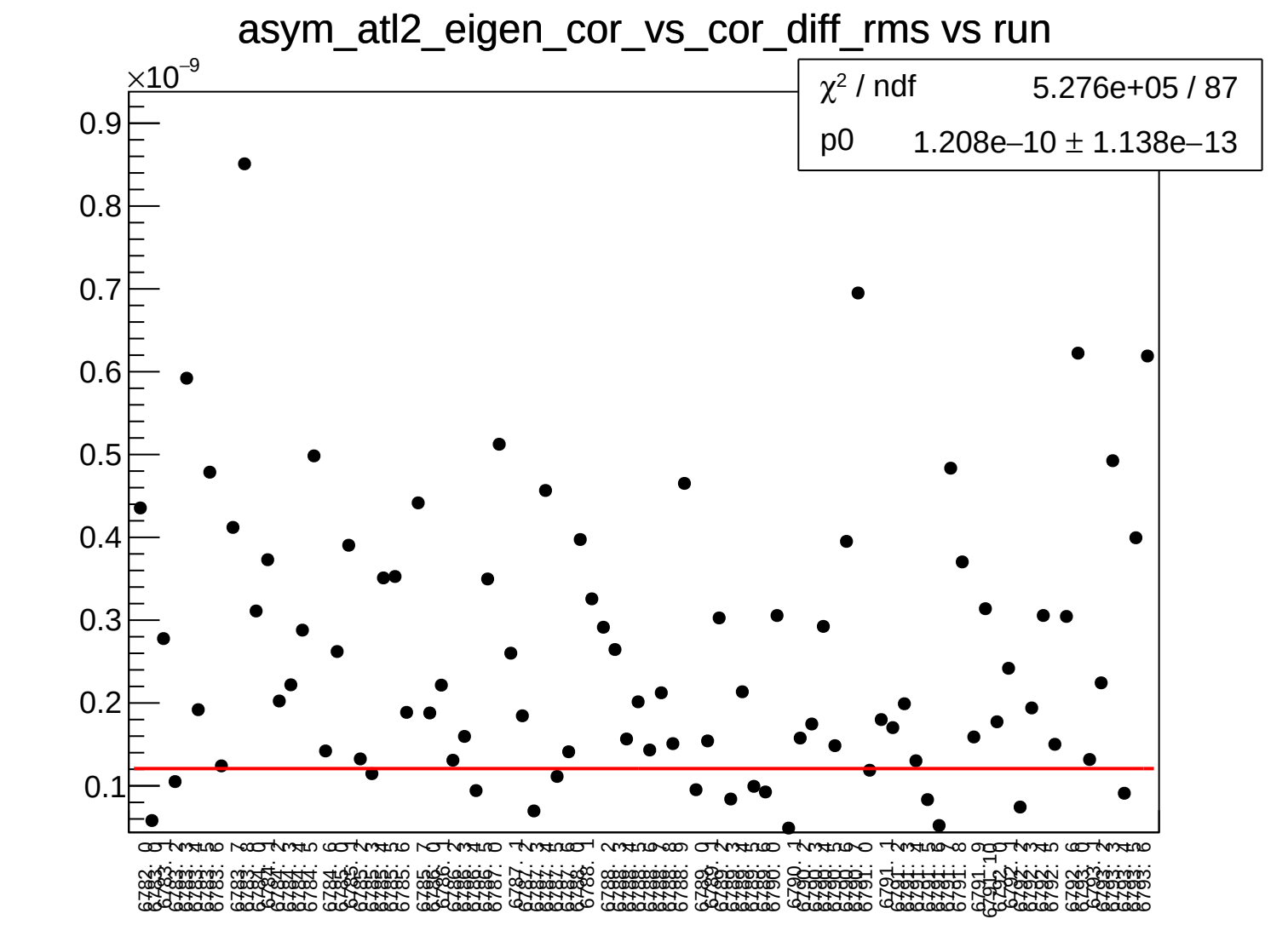

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.65 / 87
p0 −0.9162 ± 0.6215
pull
Entries 88
Mean 347.5
Std Dev 0

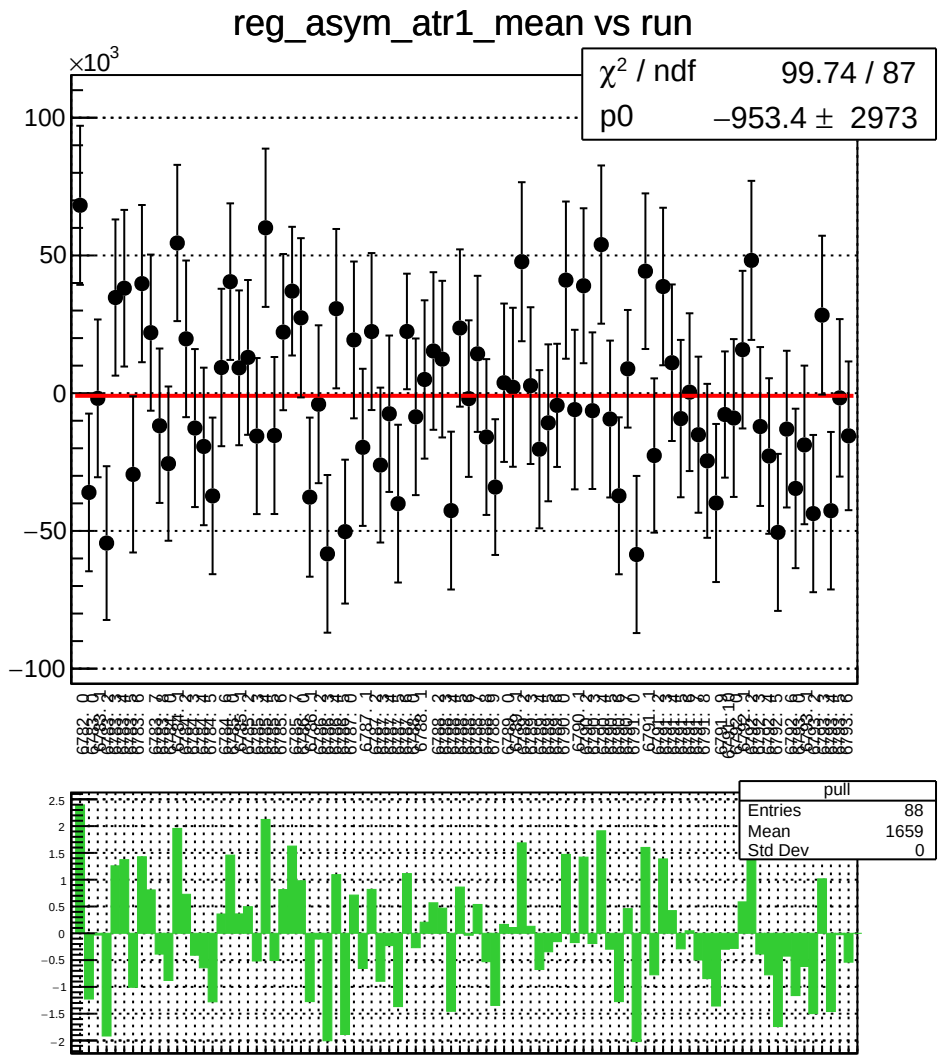

pull1D
Entries 88
Mean −0.009755
Std Dev 0.9085

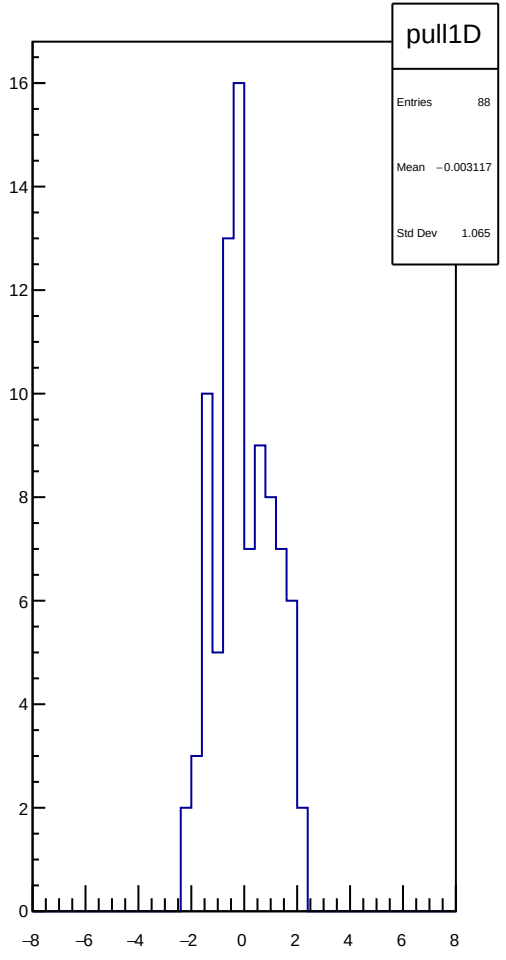

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8726 / 87
p0 563.9 ± 0.4395
650
600
550
500
450

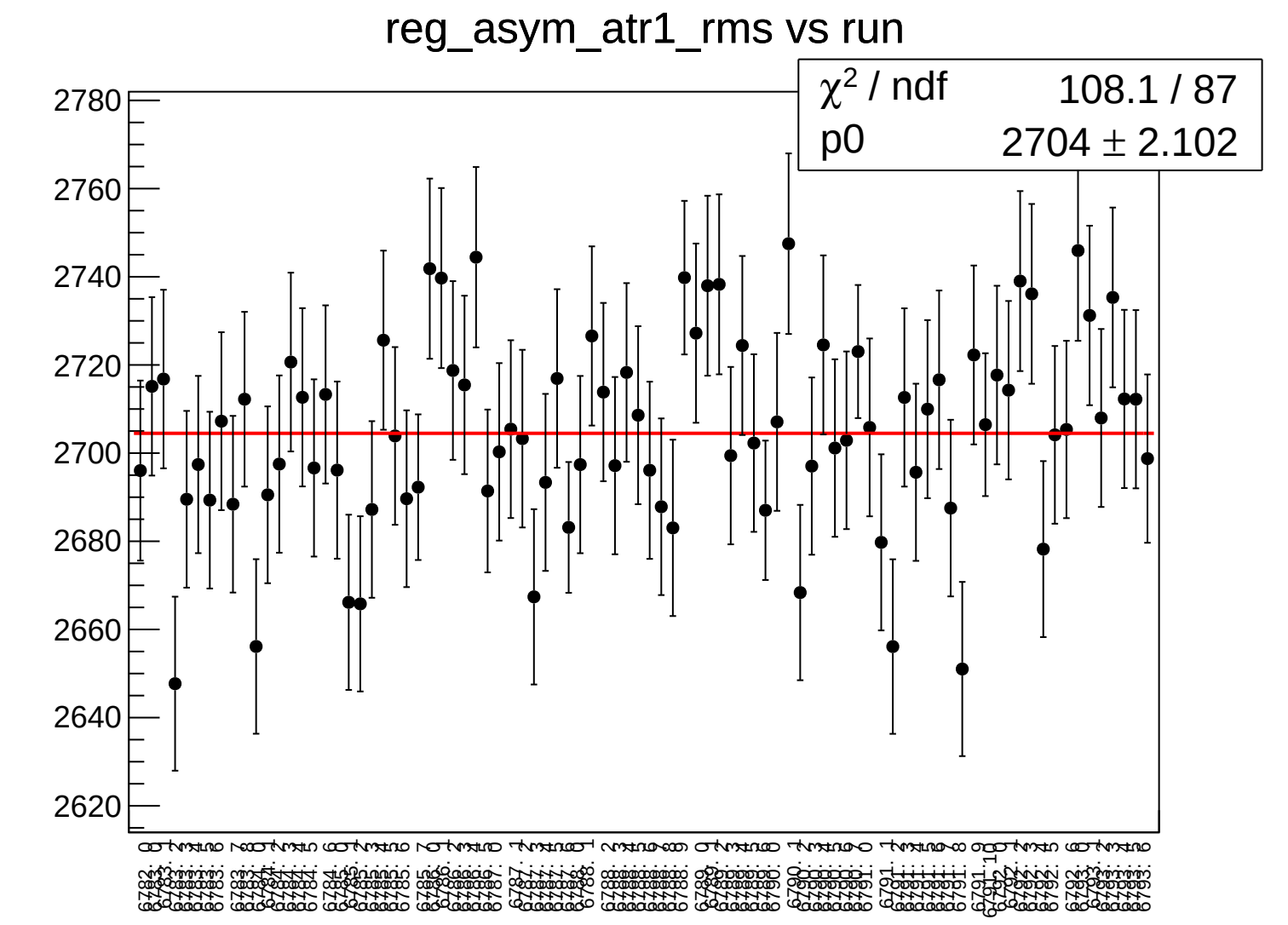

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.56 / 87
p0 −1.762e−13 ± 1.609e−13
pull
Entries 88
Mean −91.88
Std Dev 0

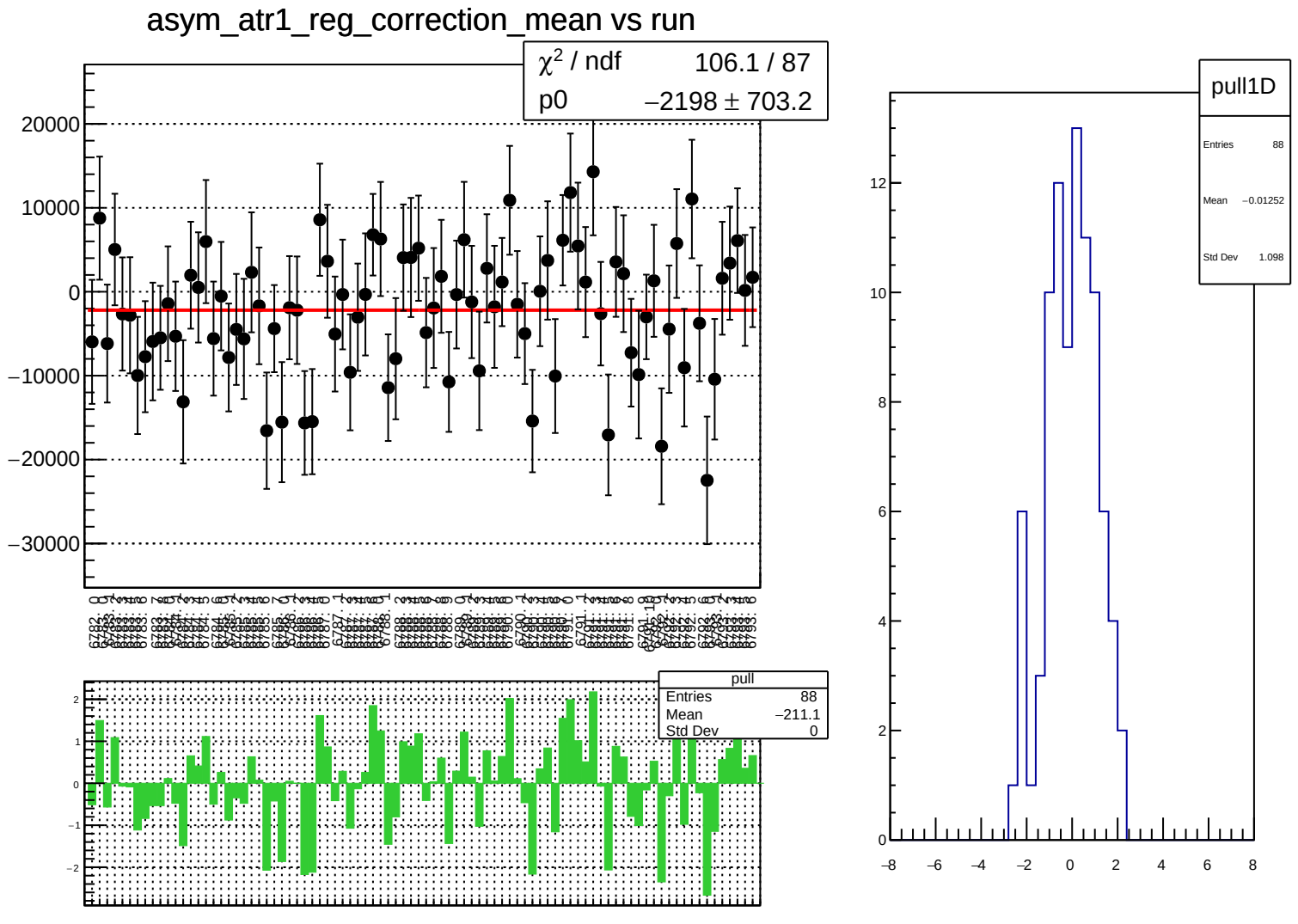

pull1D
Entries 88
Mean −0.01888
Std Dev 0.9858

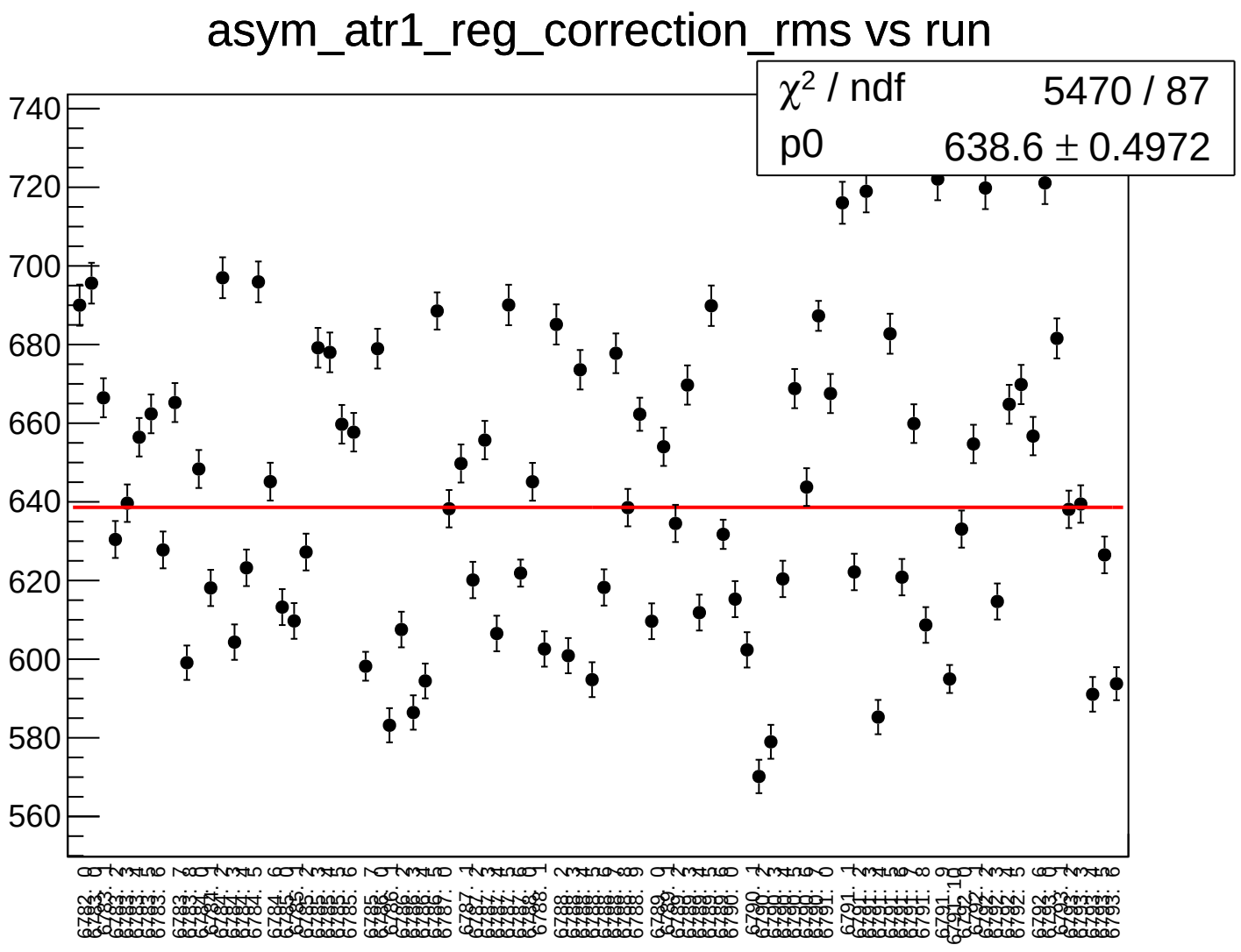

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.276e+05 / 87
p0 1.208e−10 ± 1.138e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

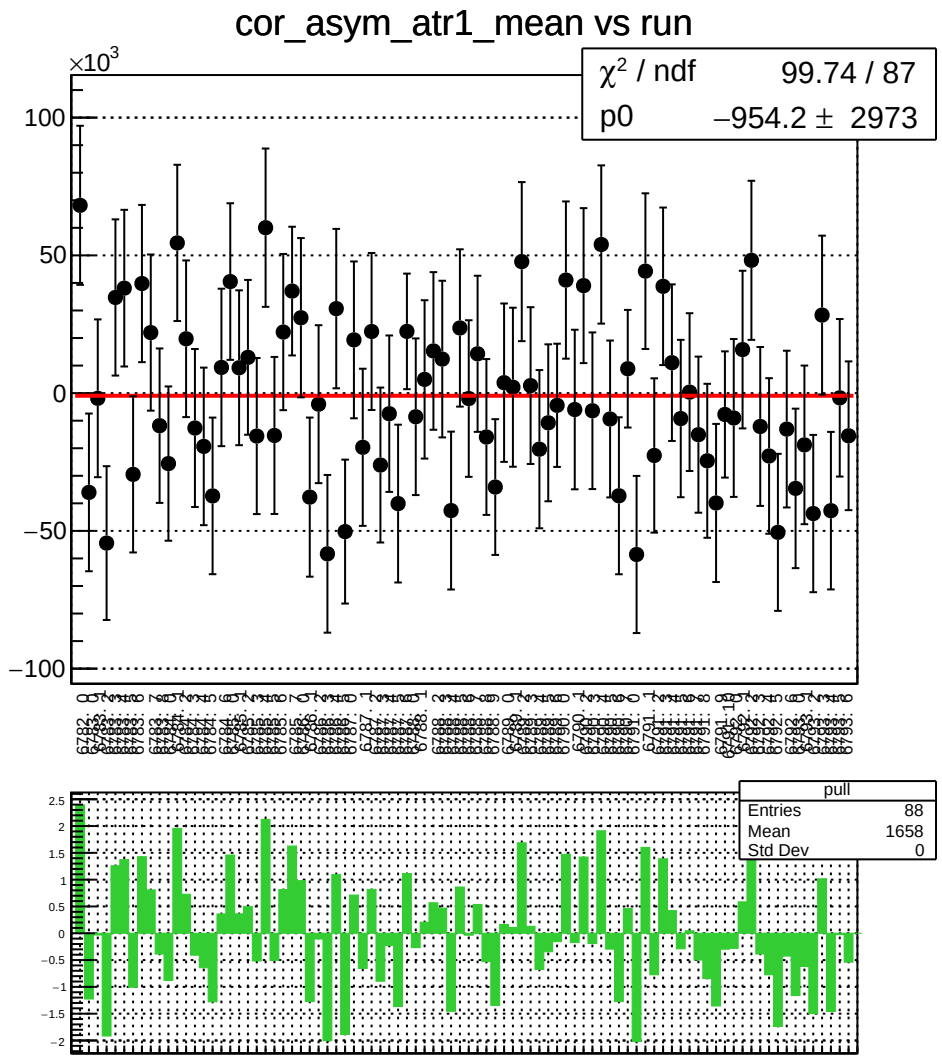

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 99.74 / 87
p0 −953.4 ± 2973
100
50
0
−50
−100
pull
Entries 88
Mean 1659
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

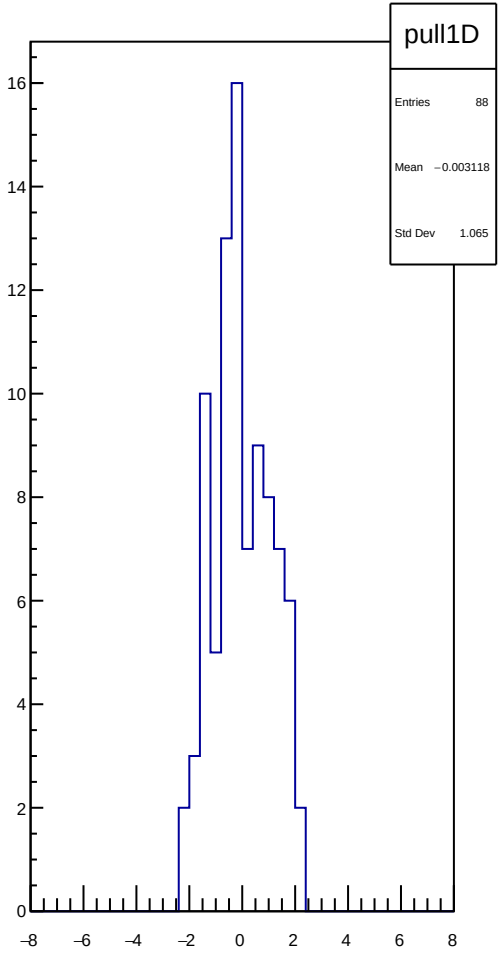

pull1D
Entries 88
Mean −0.003117
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

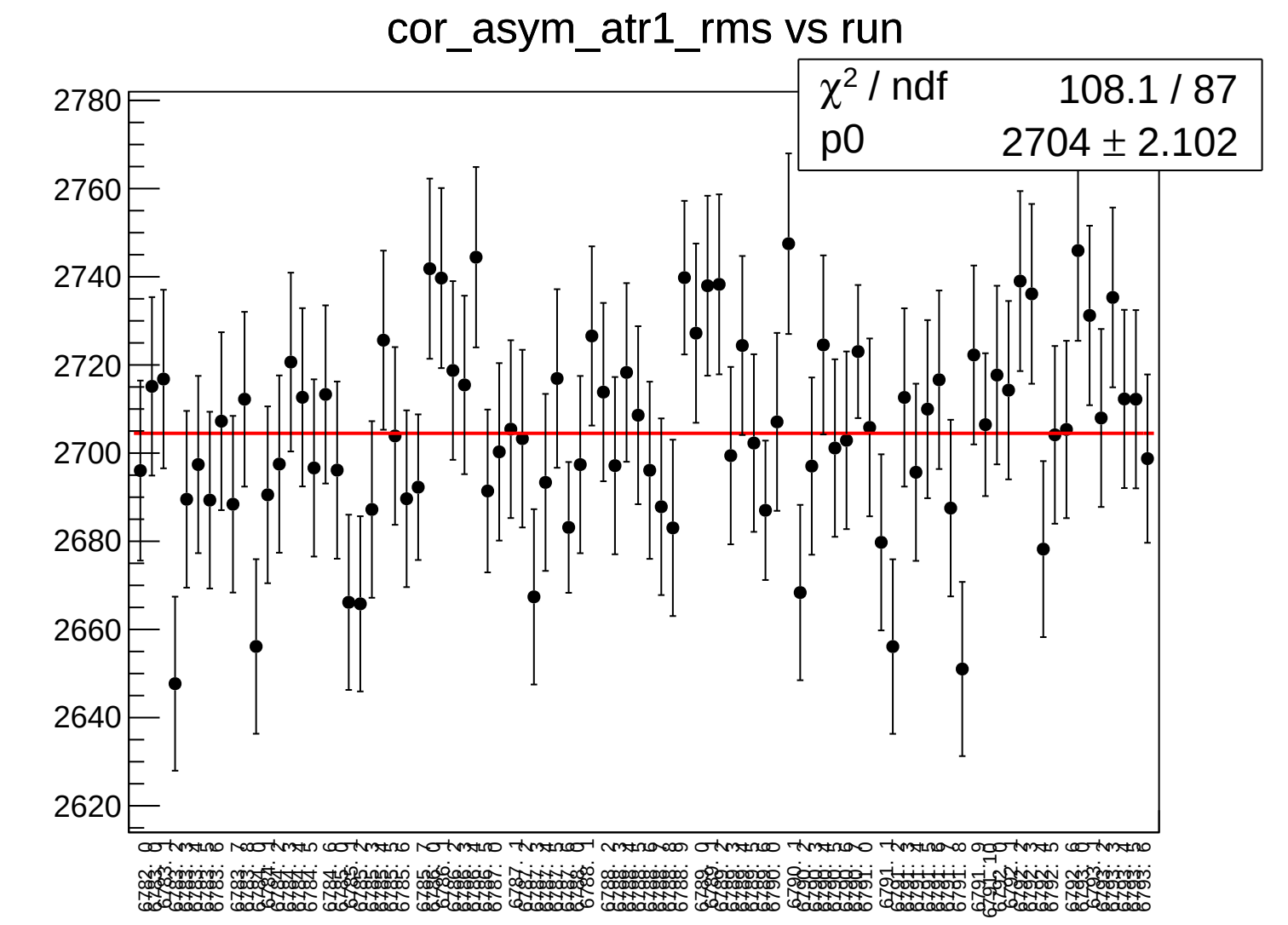

reg_asym_atr1_rms vs run
χ^2 / ndf 108.1 / 87
p0 2704 ± 2.102
2780
2760
2740
2720
2700
2680
2660
2640
2620

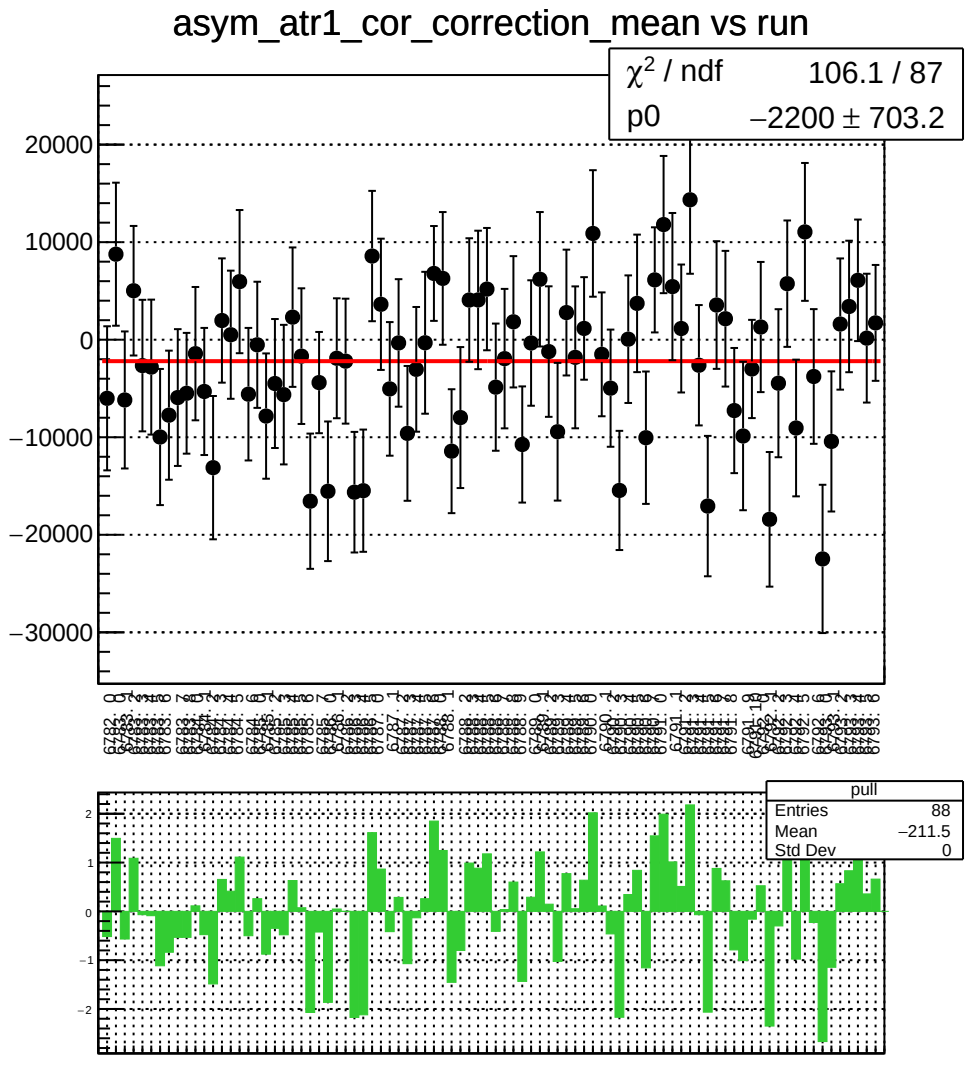

asym_atr1_reg_correction_mean vs run
χ² / ndf 106.1 / 87
p0 −2198 ± 703.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −211.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01252
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

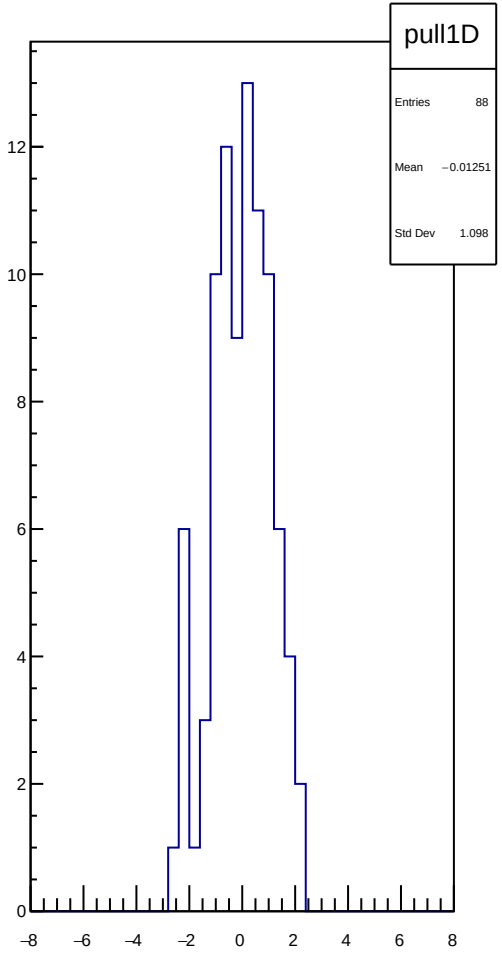

asym_atr1_reg_correction_rms vs run
χ^2 / ndf 5470 / 87
p0 638.6 ± 0.4972
740
720
700
680
660
640
620
600
580
560

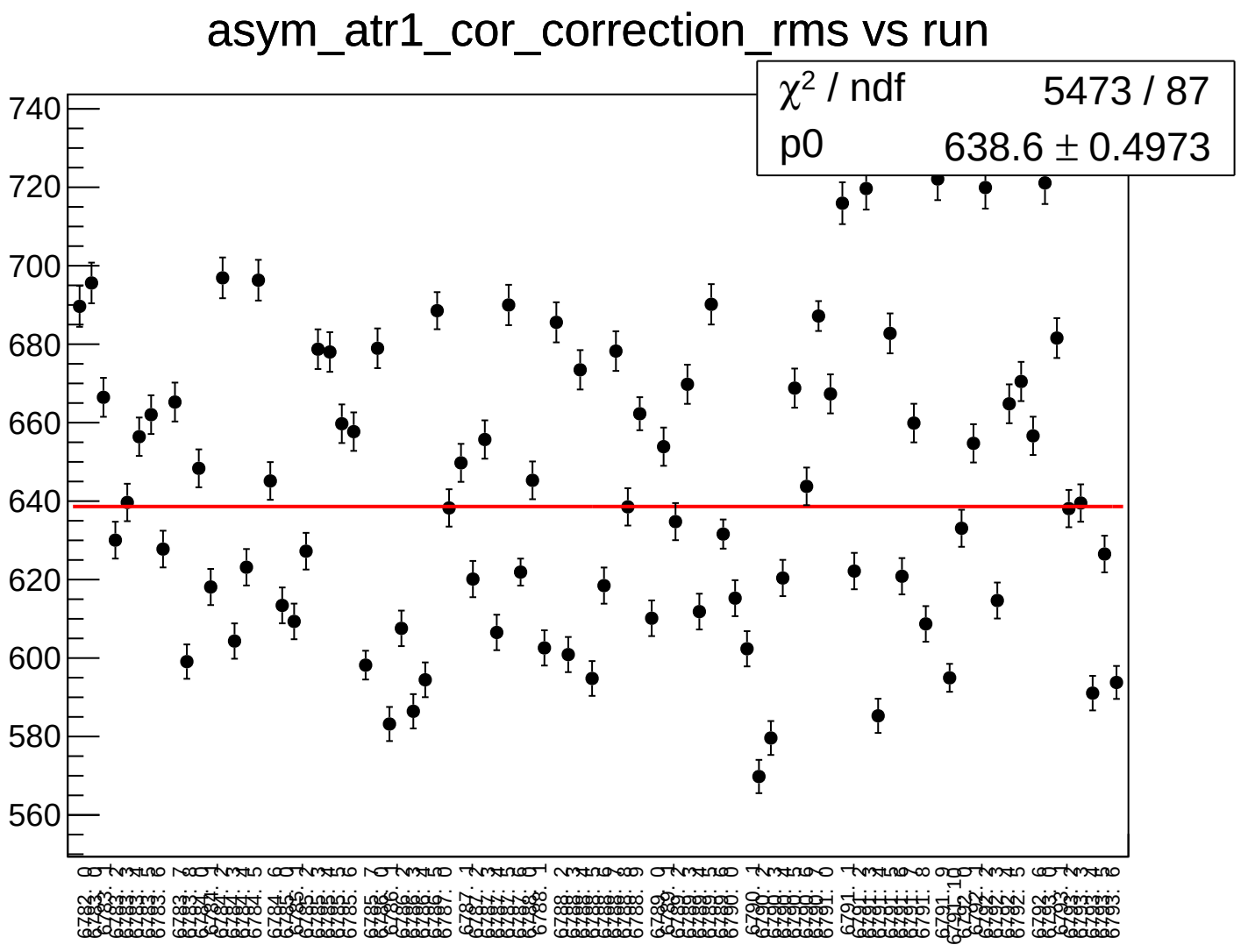

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 99.74 / 87
p0 −954.2 ± 2973
pull
Entries 88
Mean 1658
Std Dev 0

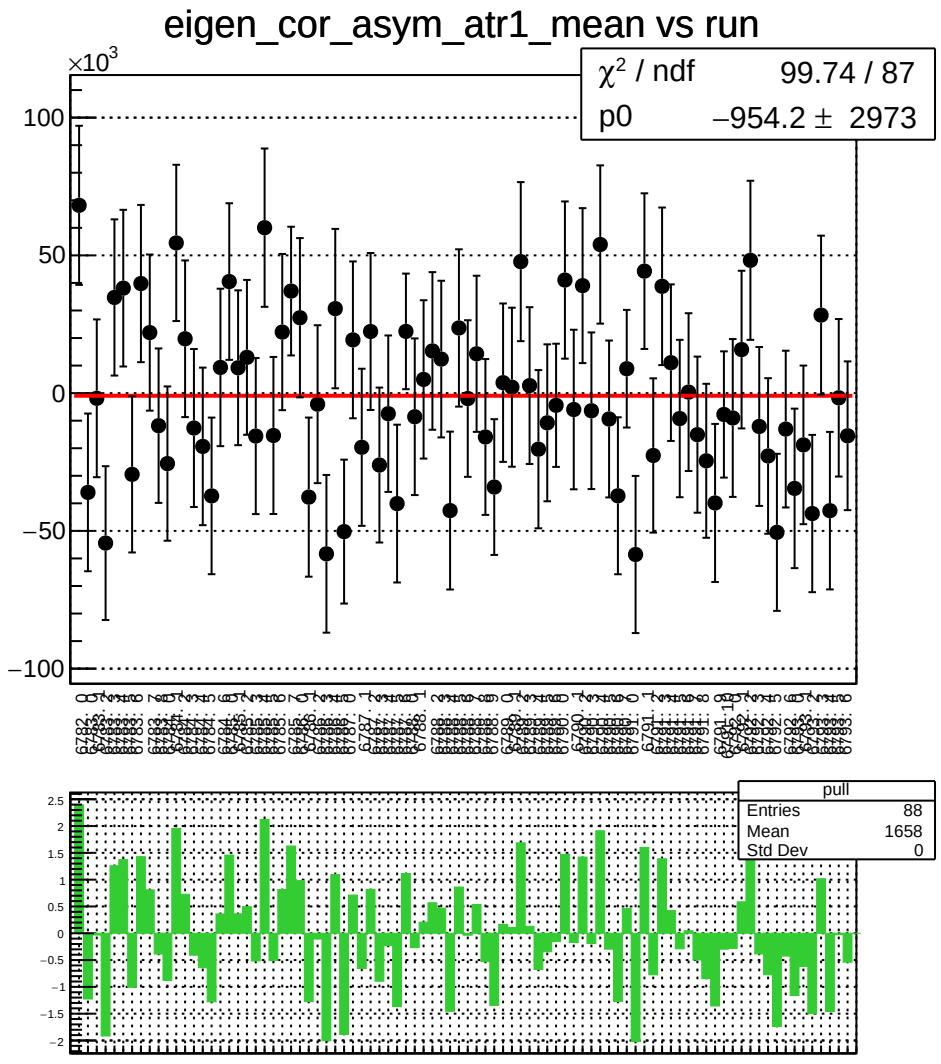

pull1D
Entries 88
Mean −0.003118
Std Dev 1.065

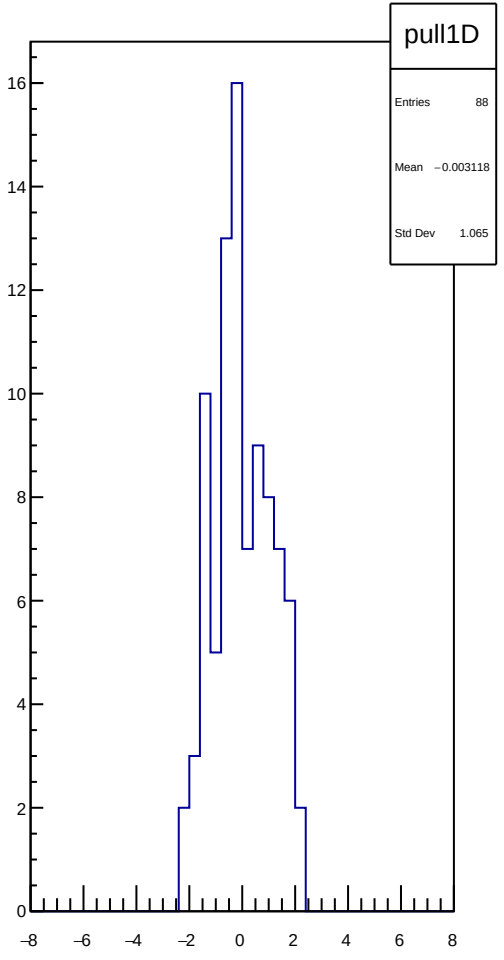

cor_asym_atr1_rms vs run
χ² / ndf 108.1 / 87
p0 2704 ± 2.102
2780
2760
2740
2720
2700
2680
2660
2640
2620

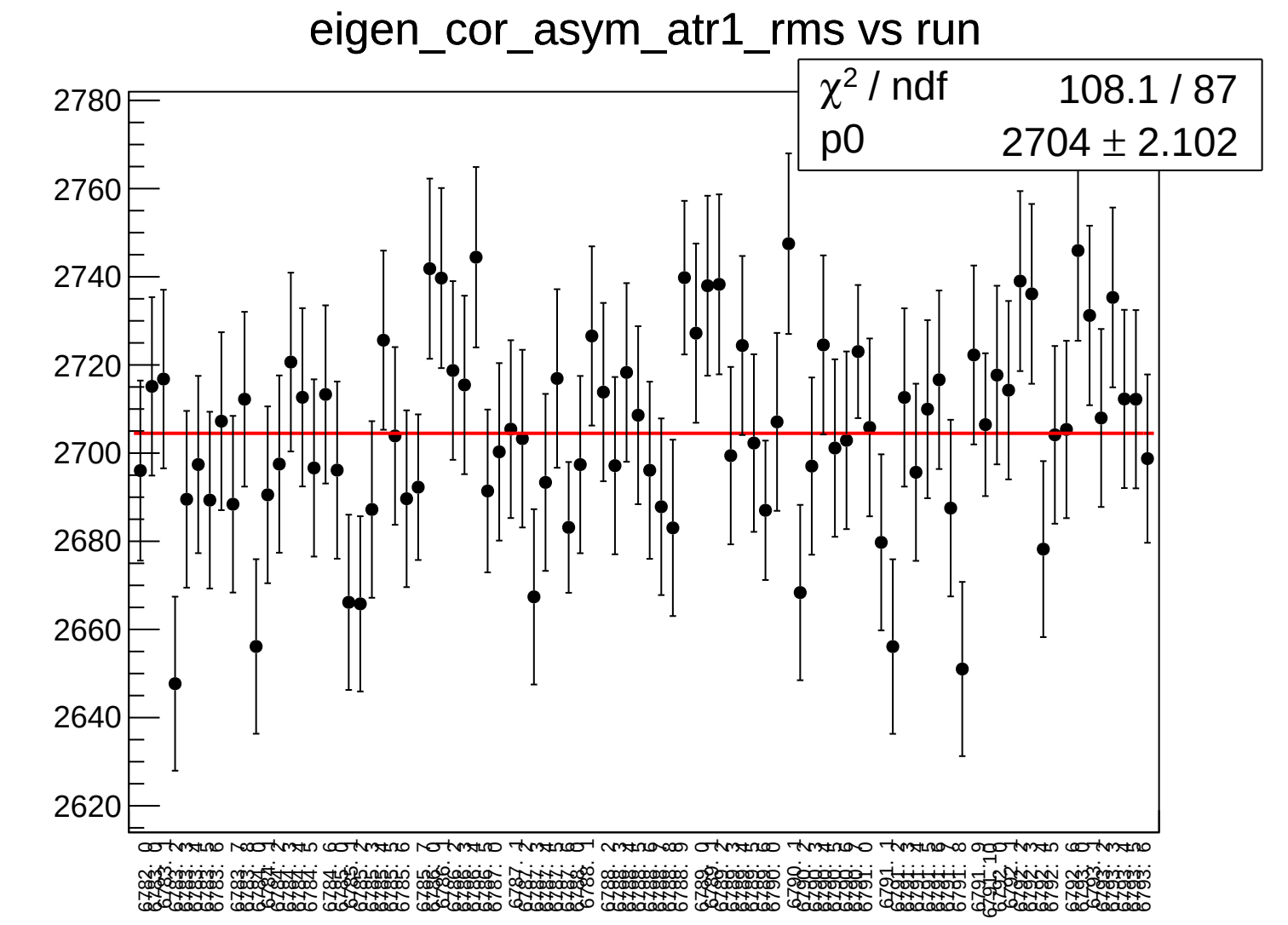

asym_atr1_cor_correction_mean vs run
χ² / ndf 106.1 / 87
p0 −2200 ± 703.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −211.5
Std Dev 0
2
1
0
−1
−2

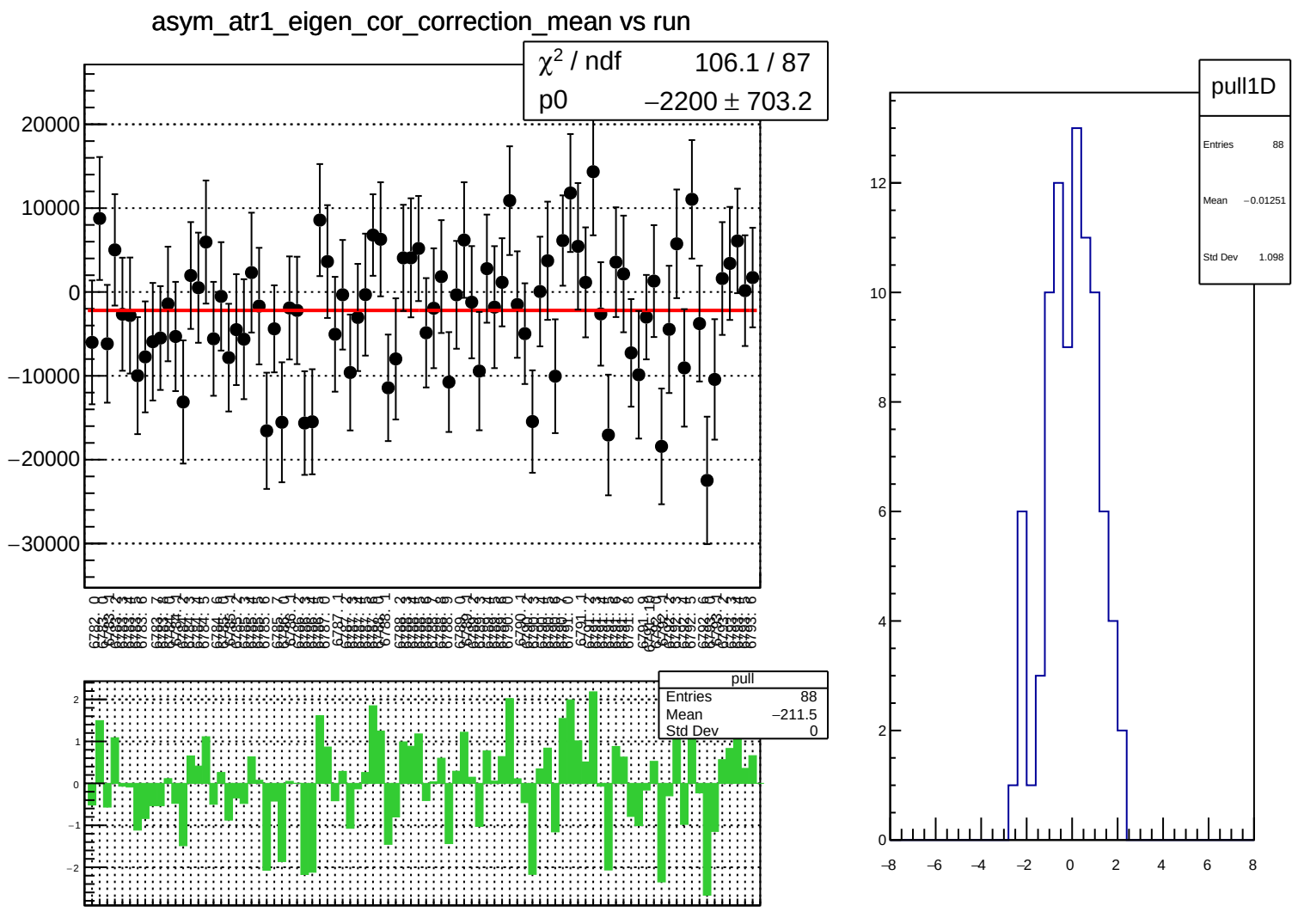

pull1D
Entries 88
Mean −0.01251
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

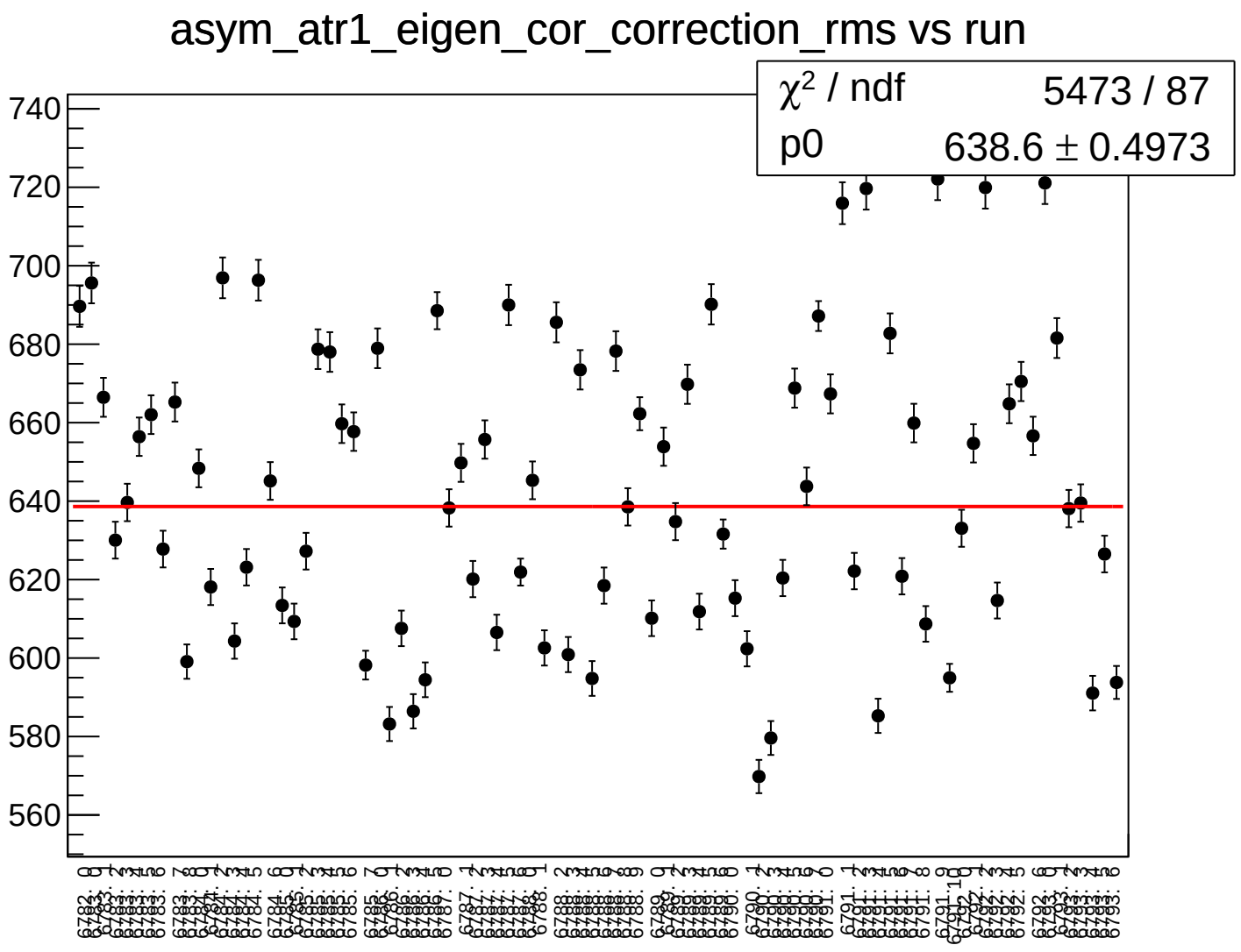

asym_atr1_cor_correction_rms vs run
χ² / ndf 5473 / 87
p0 638.6 ± 0.4973
740
720
700
680
660
640
620
600
580
560

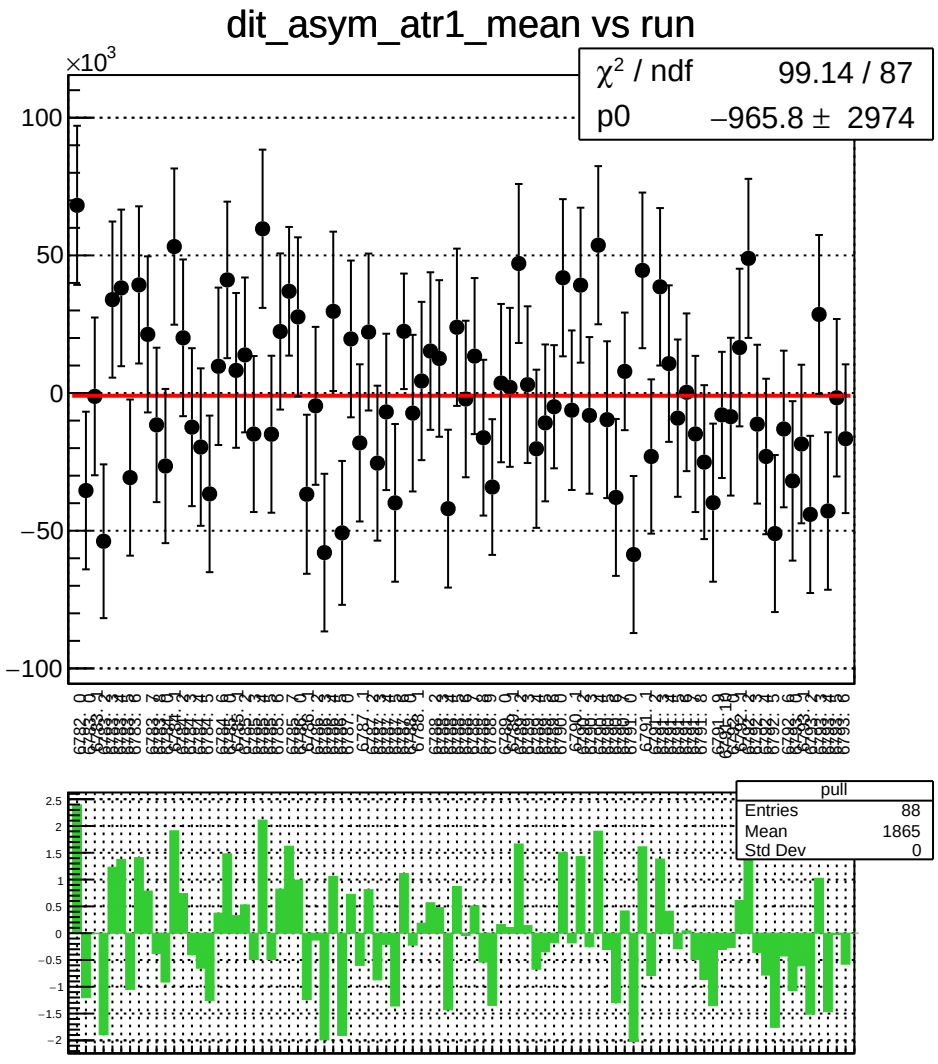

eigen_cor_asym_atr1_mean vs run
χ² / ndf 99.74 / 87
p0 −954.2 ± 2973
pull
Entries 88
Mean 1658
Std Dev 0

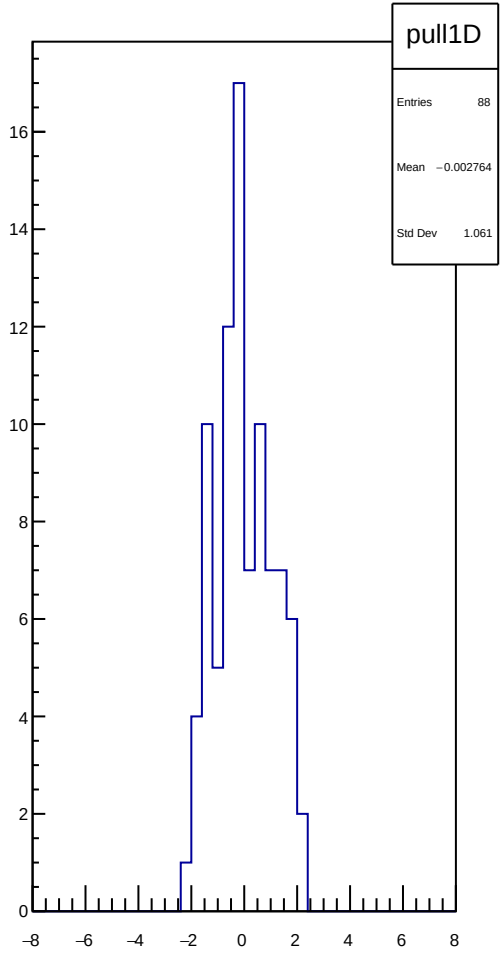

pull1D
Entries 88
Mean −0.003118
Std Dev 1.065

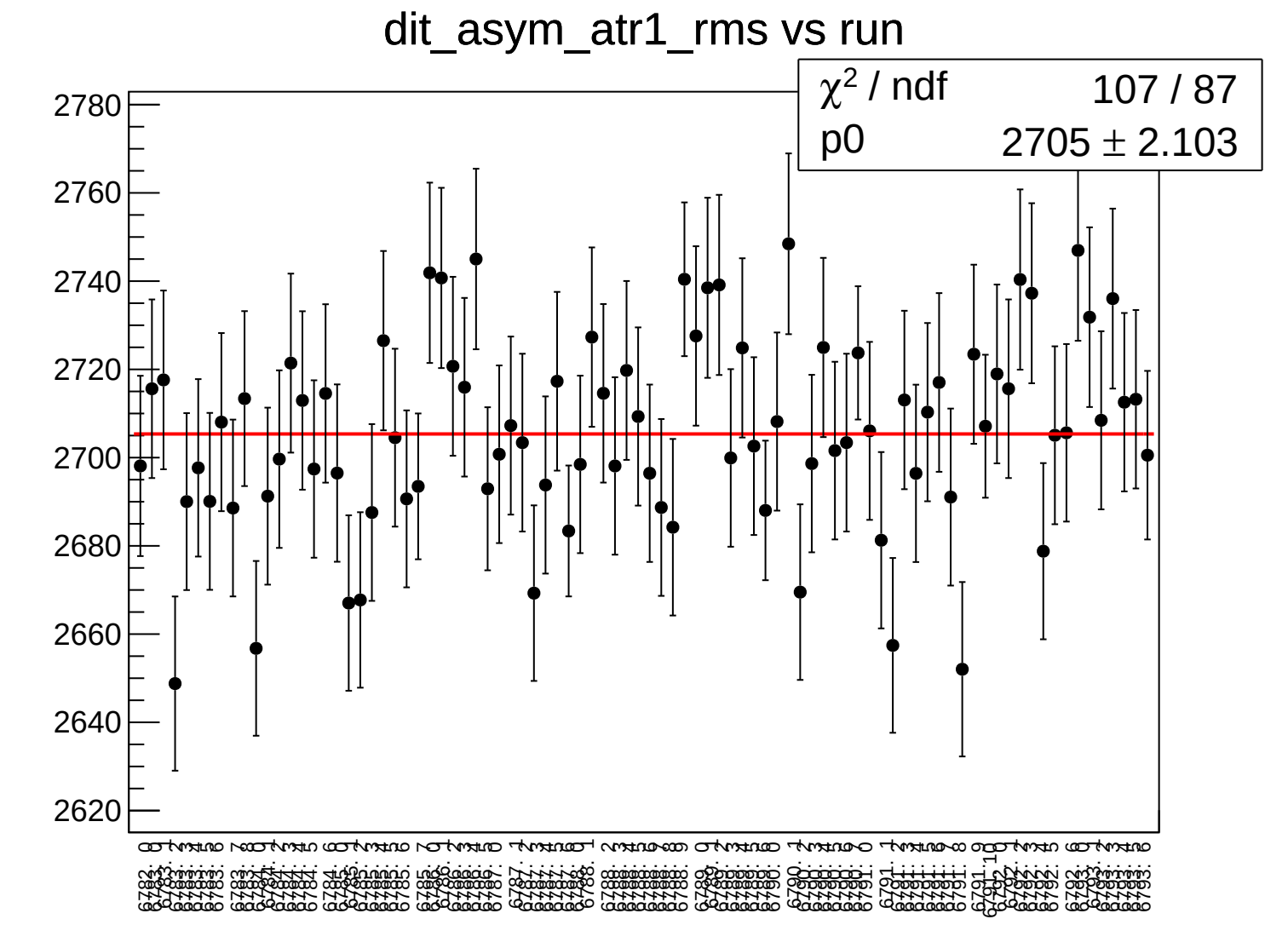

eigen_cor_asym_atr1_rms vs run
χ² / ndf 108.1 / 87
p0 2704 ± 2.102
2780
2760
2740
2720
2700
2680
2660
2640
2620

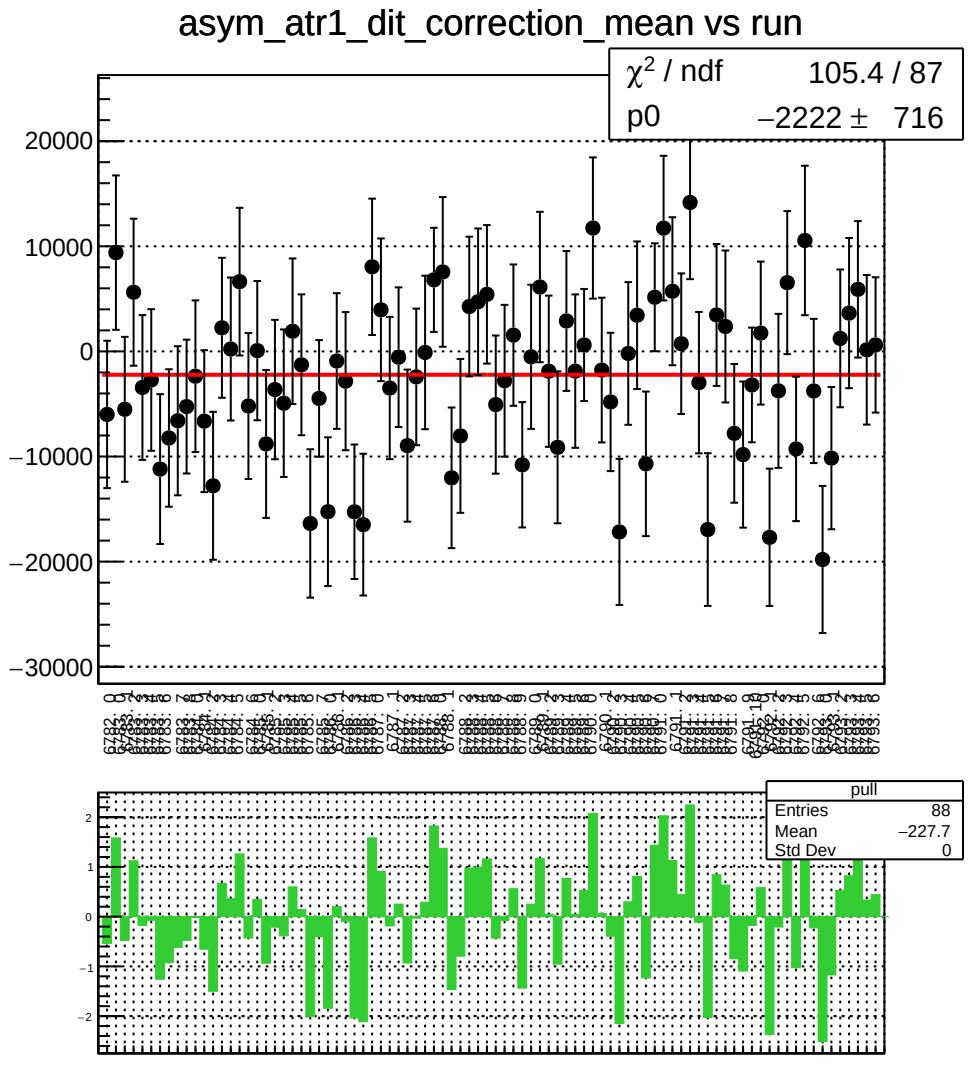

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 106.1 / 87
p0 −2200 ± 703.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −211.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01251
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

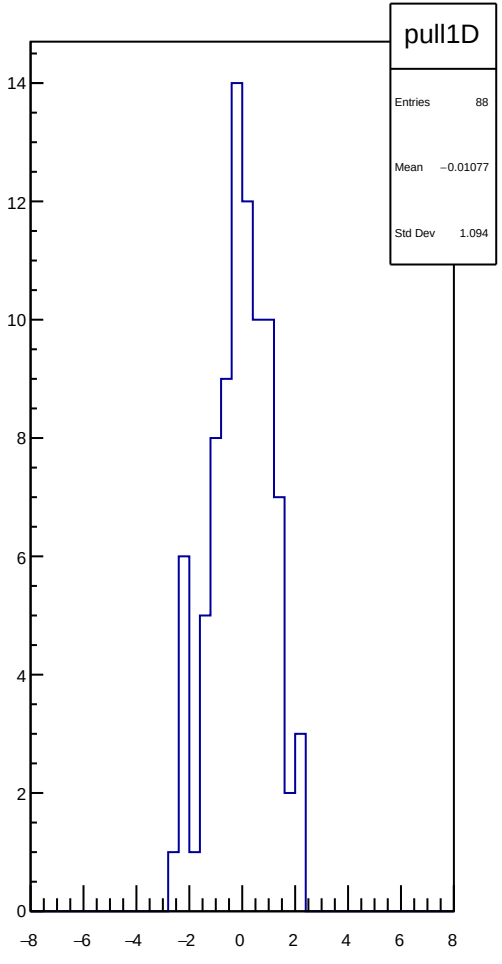

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 5473 / 87
p0 638.6 ± 0.4973
740
720
700
680
660
640
620
600
580
560

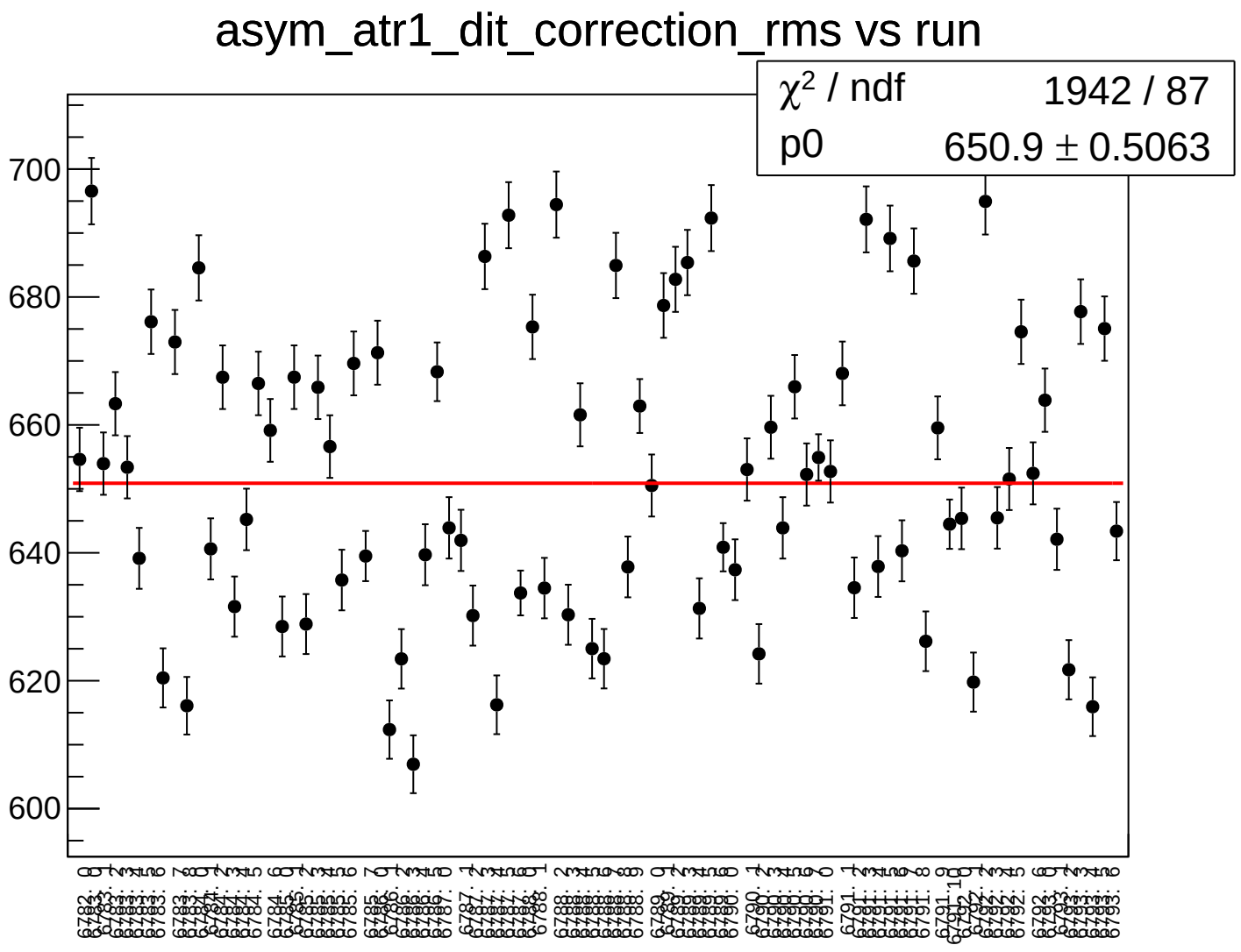

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 99.14 / 87
p0 −965.8 ± 2974
100
50
0
−50
−100
pull
Entries 88
Mean 1865
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

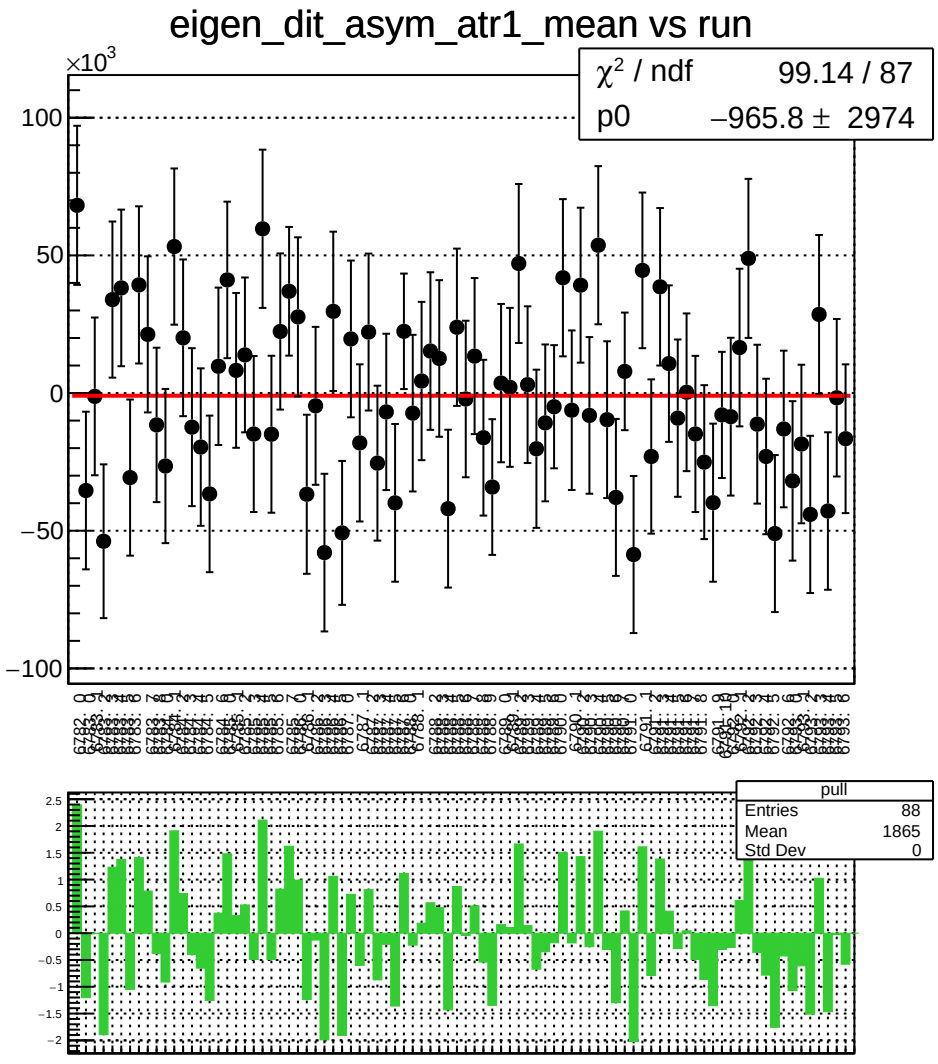

pull1D
Entries 88
Mean −0.002764
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

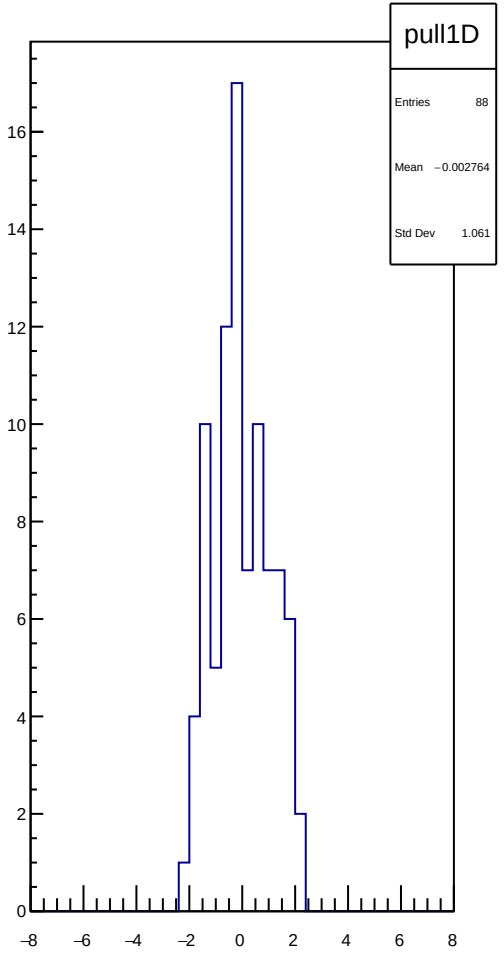

dit_asym_atr1_rms vs run
χ^2 / ndf 107 / 87
p0 2705 ± 2.103
2780
2760
2740
2720
2700
2680
2660
2640
2620

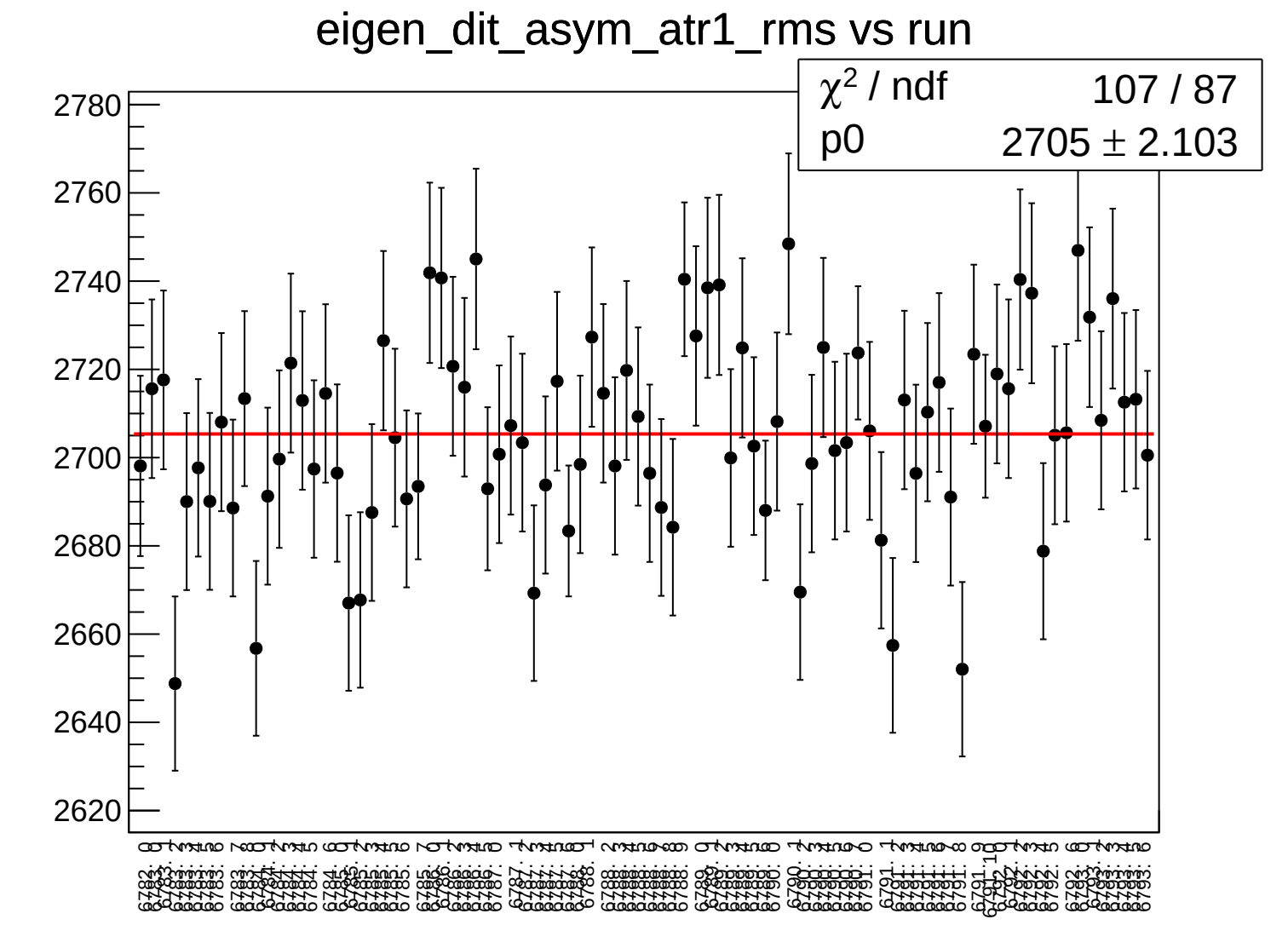

asym_atr1_dit_correction_mean vs run
χ² / ndf 105.4 / 87
p0 −2222 ± 716
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −227.7
Std Dev 0
2
1
0
−1
−2

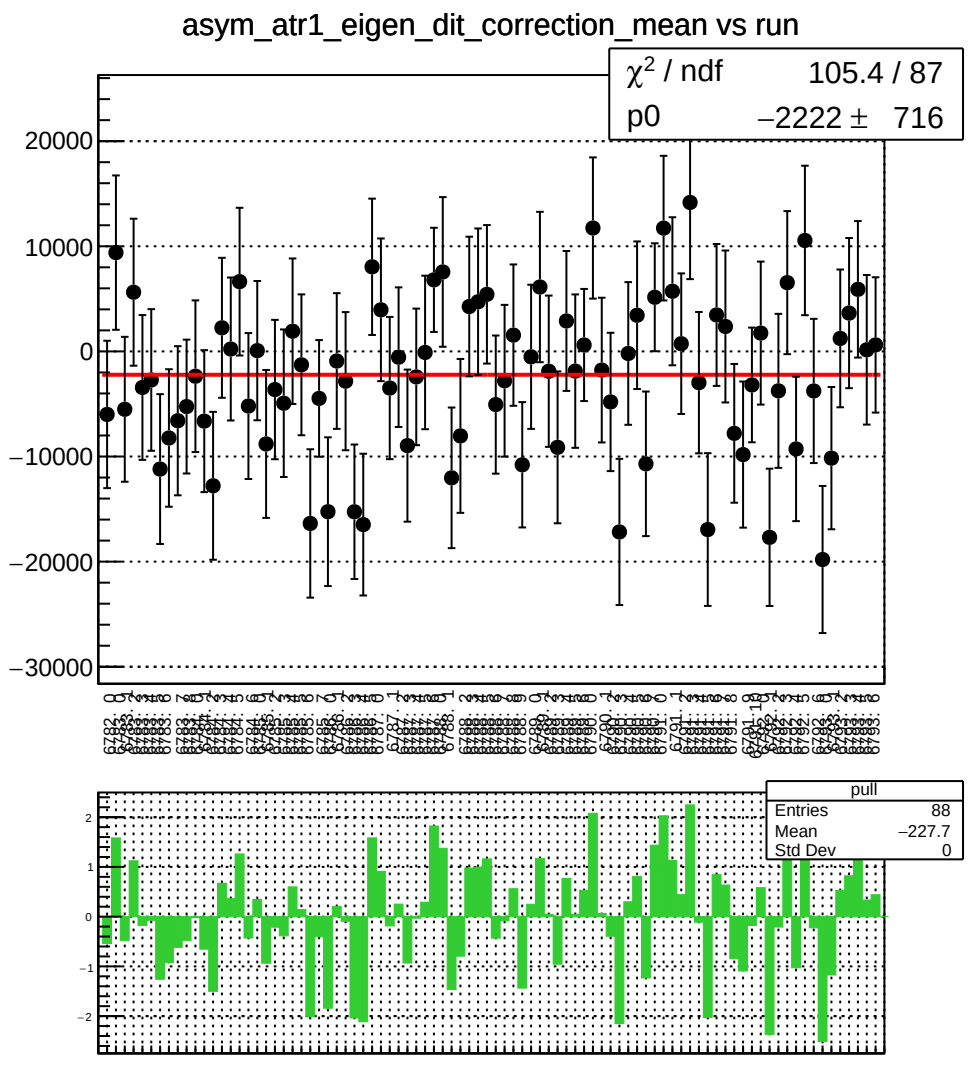

pull1D
Entries 88
Mean −0.01077
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

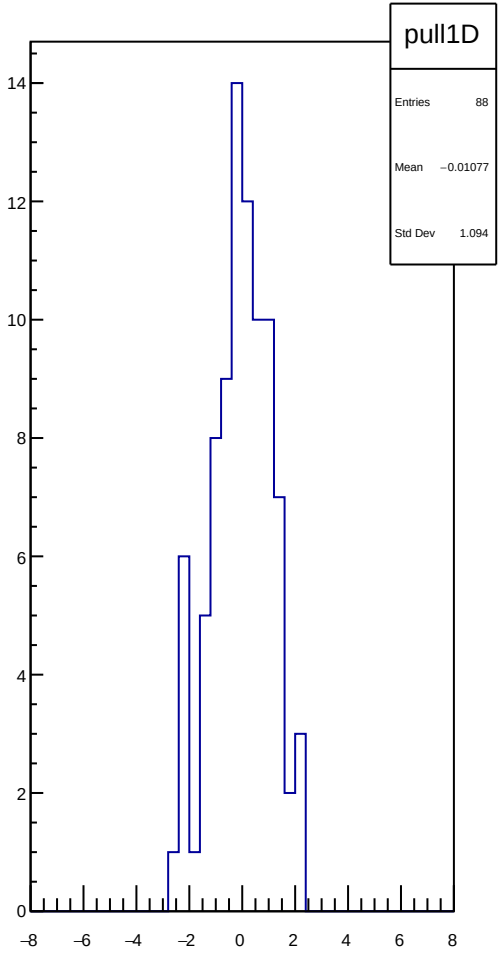

asym_atr1_dit_correction_rms vs run
χ² / ndf 1942 / 87
p0 650.9 ± 0.5063
700
680
660
640
620
600

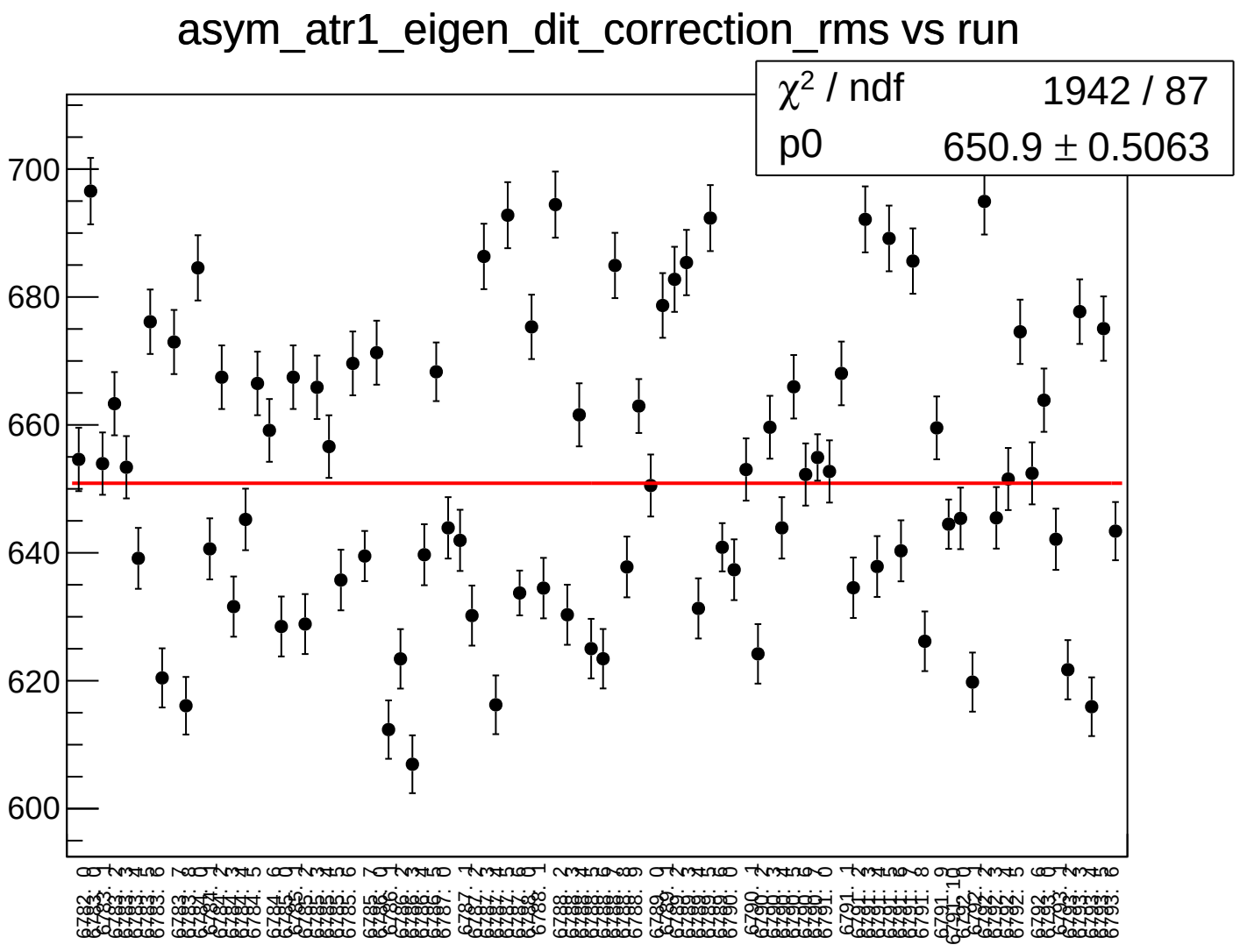

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 99.14 / 87
p0 −965.8 ± 2974
pull
Entries 88
Mean 1865
Std Dev 0

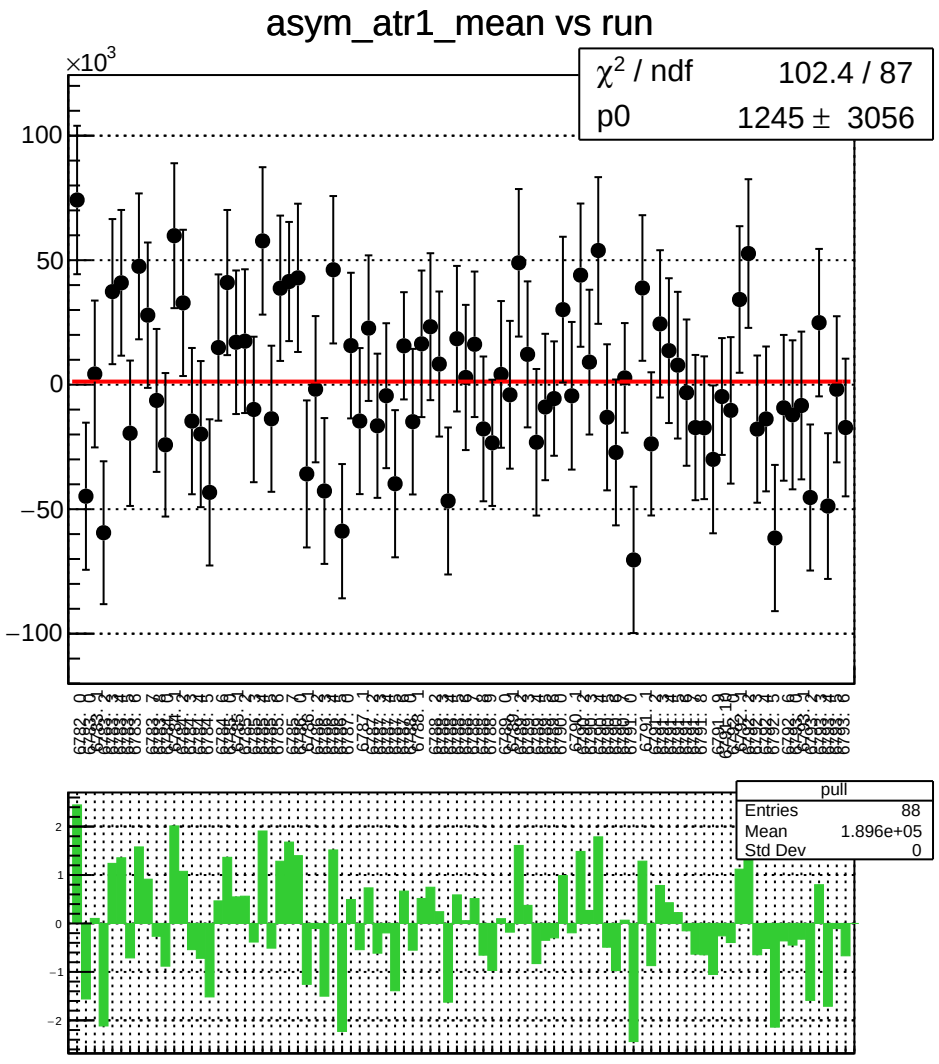

pull1D
Entries 88
Mean −0.002764
Std Dev 1.061

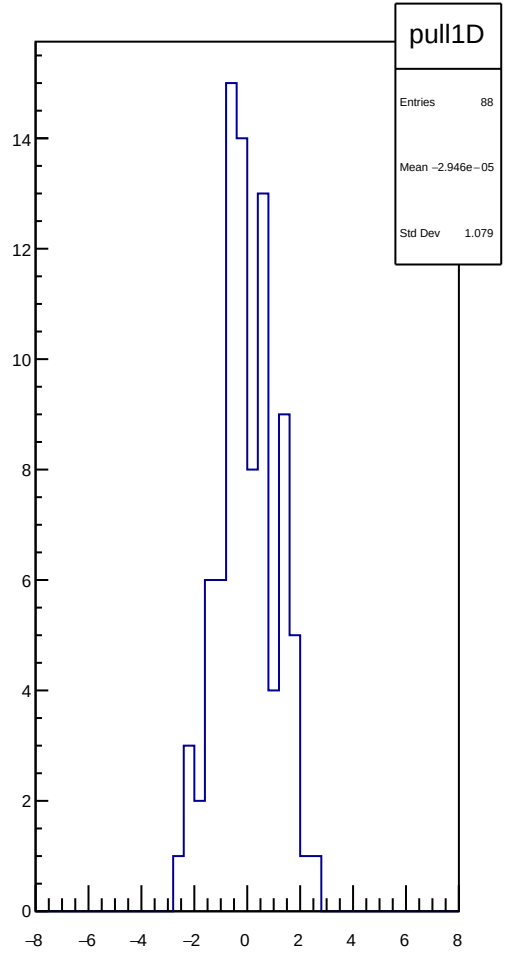

eigen_dit_asym_atr1_rms vs run
χ² / ndf 107 / 87
p0 2705 ± 2.103
2780
2760
2740
2720
2700
2680
2660
2640
2620

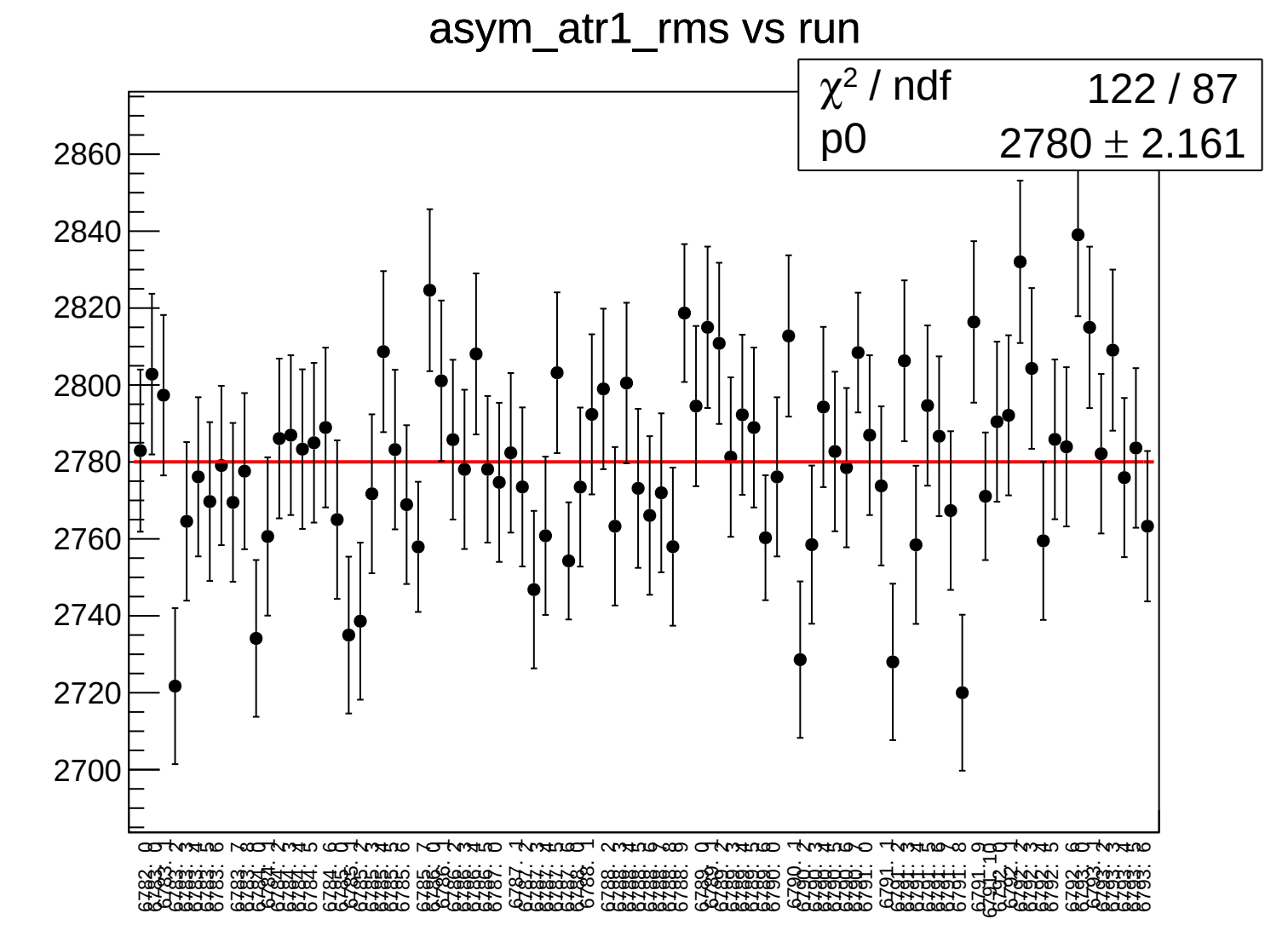

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 105.4 / 87
p0 −2222 ± 716
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −227.7
Std Dev 0
2
1
0
−1
−2

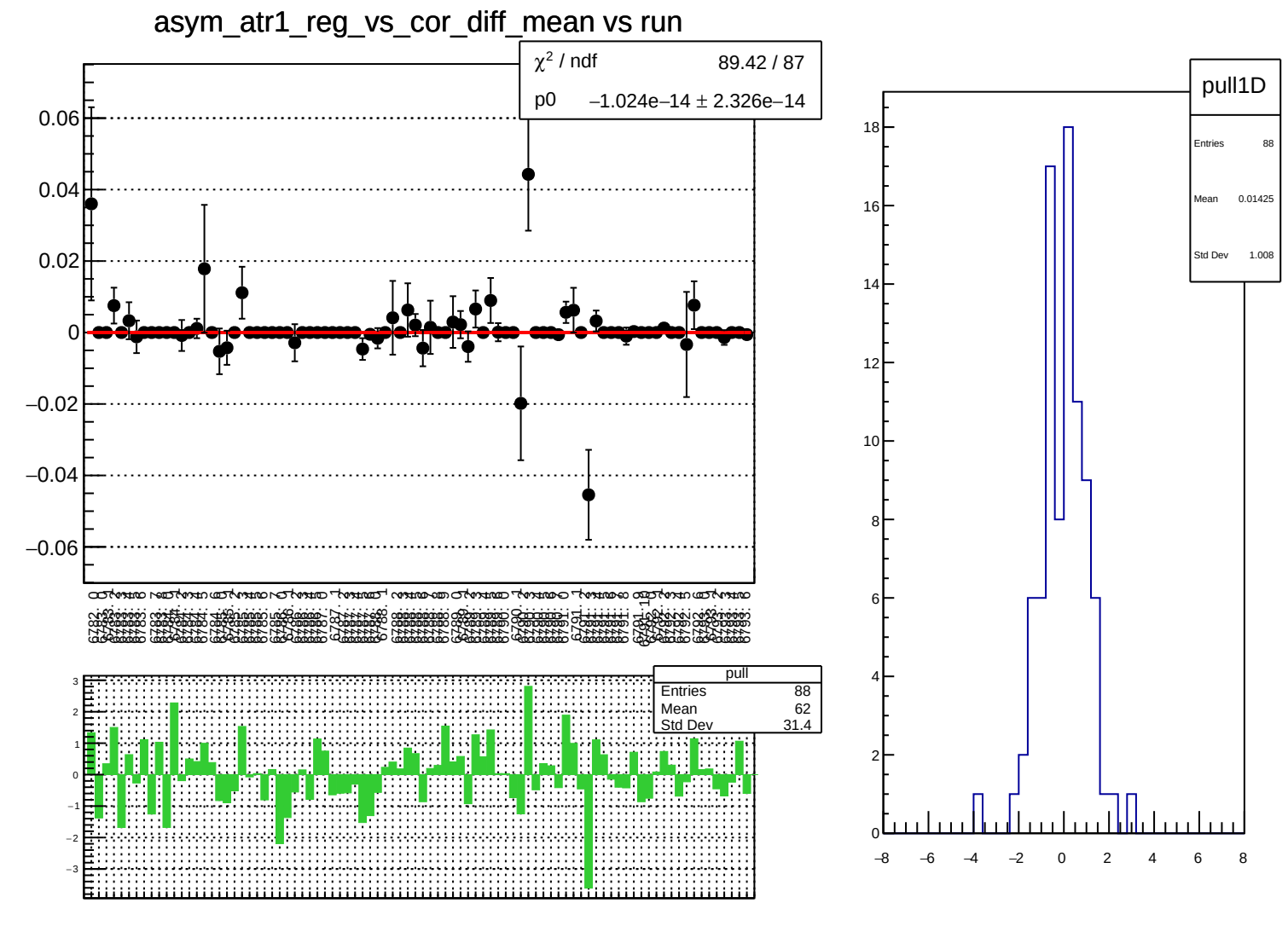

pull1D
Entries 88
Mean −0.01077
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

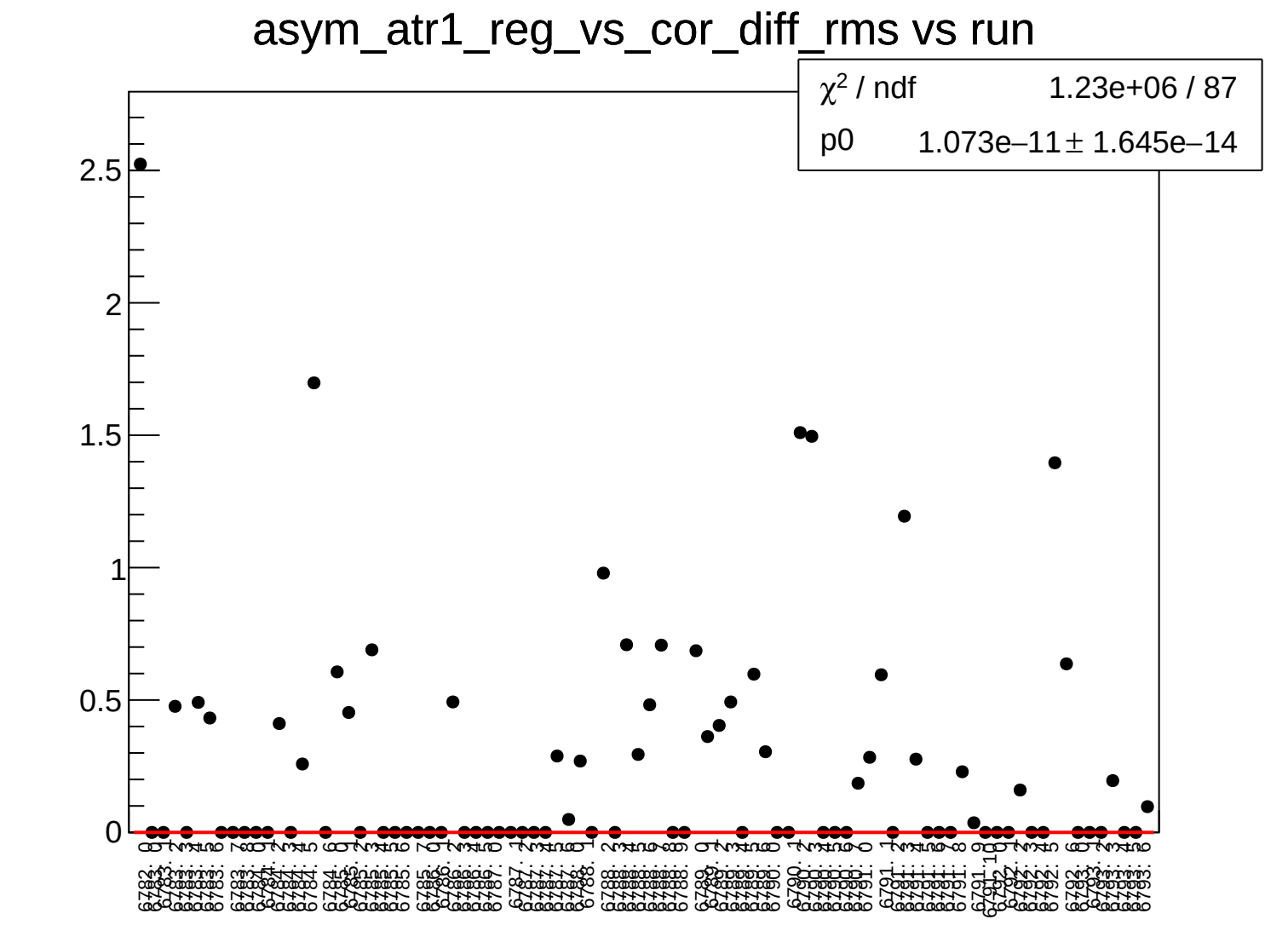

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1942 / 87
p0 650.9 ± 0.5063
700
680
660
640
620
600

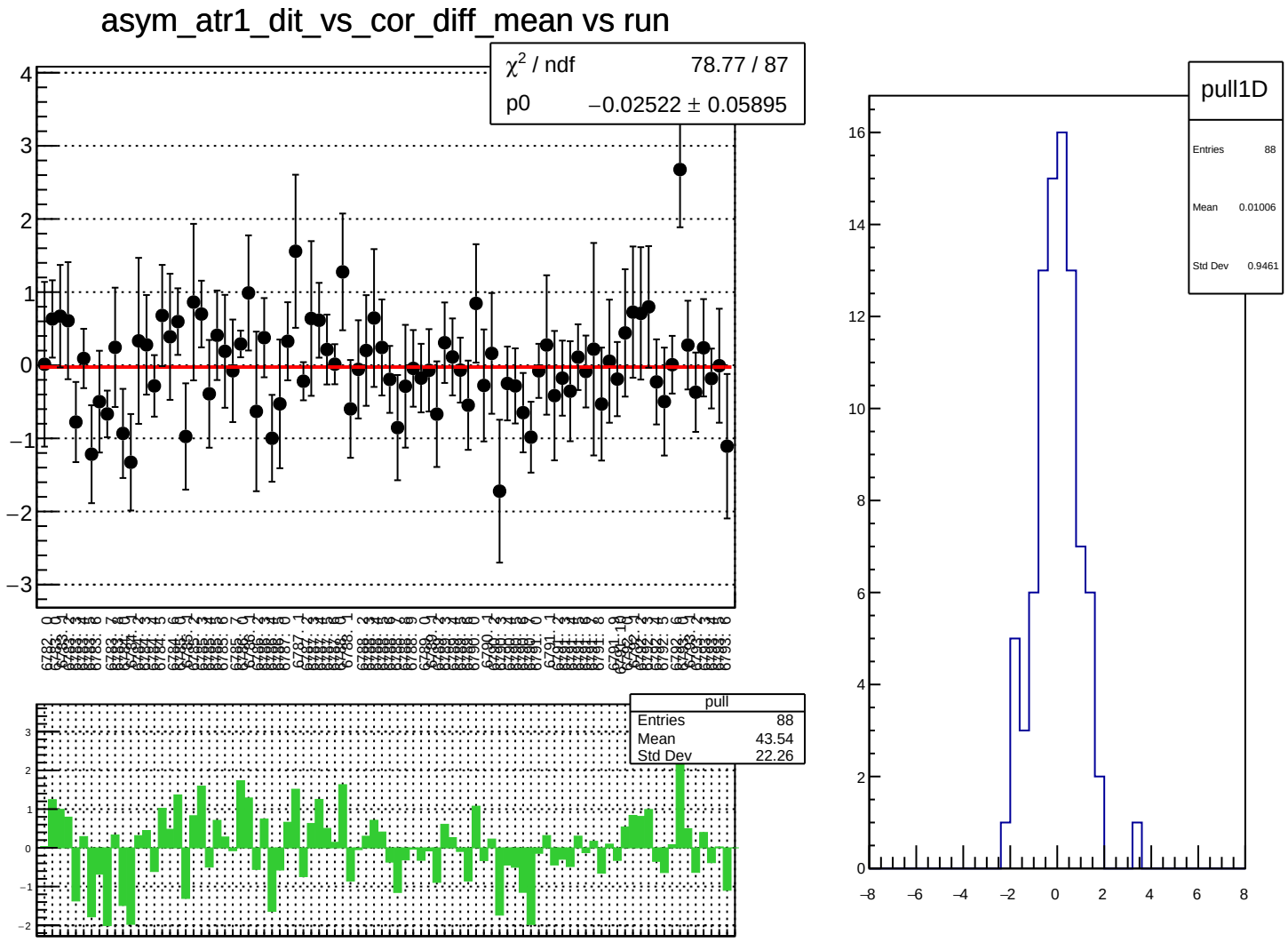

asym_atr1_mean vs run
×10^3
χ² / ndf 102.4 / 87
p0 1245 ± 3056
100
50
0
−50
−100
pull
Entries 88
Mean 1.896e+05
Std Dev 0
2
1
0
−1
−2

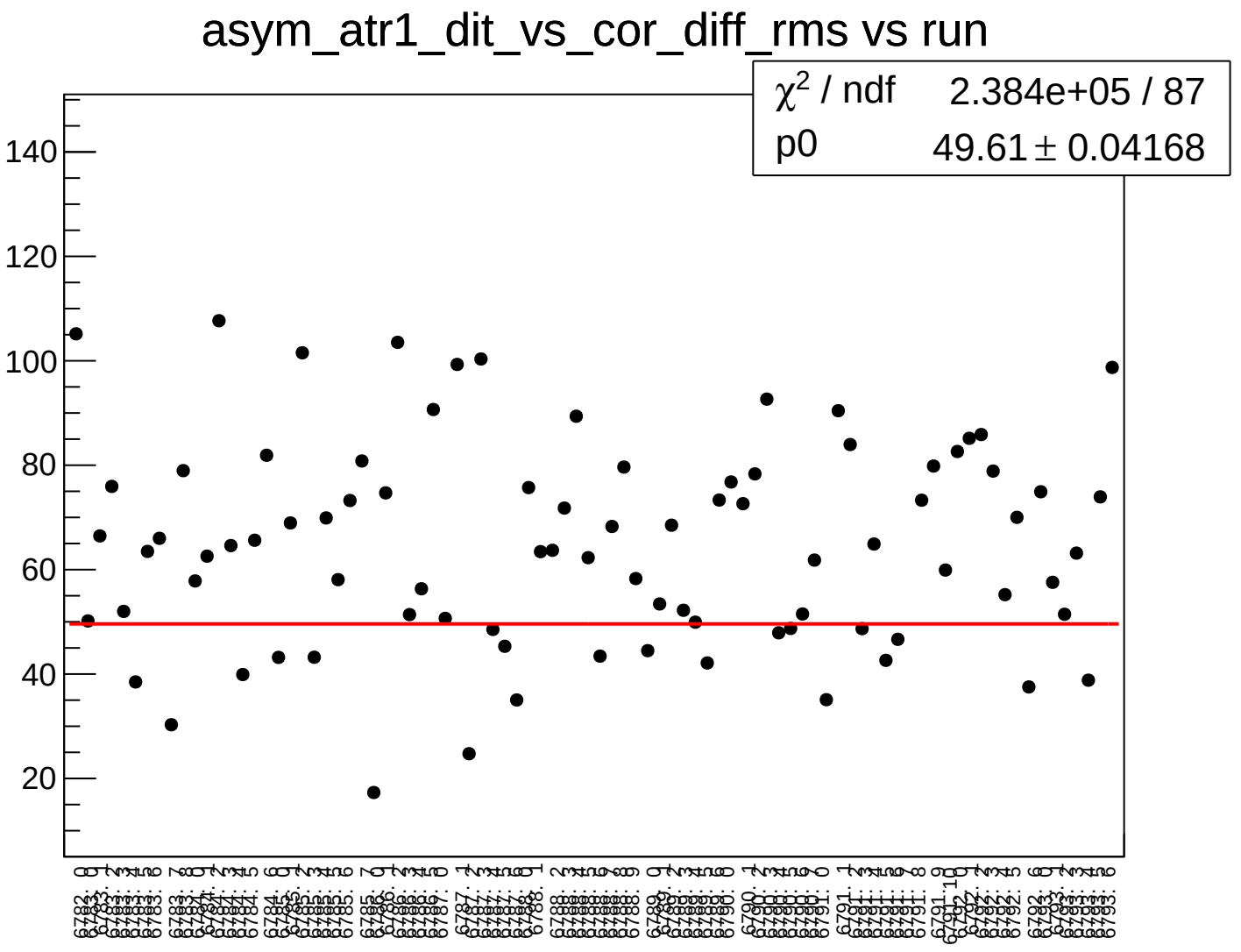

pull1D
Entries 88
Mean −2.946e−05
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

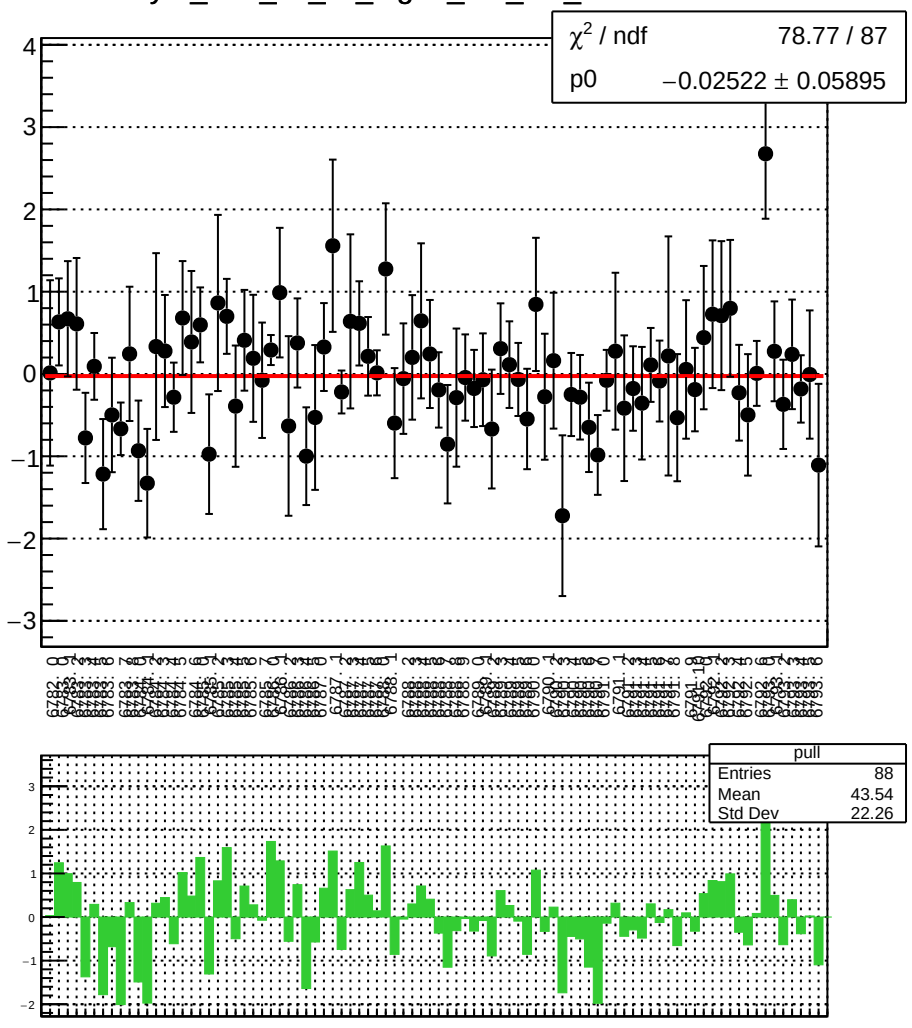

asym_atr1_rms vs run
χ² / ndf 122 / 87
p0 2780 ± 2.161
2860
2840
2820
2800
2780
2760
2740
2720
2700

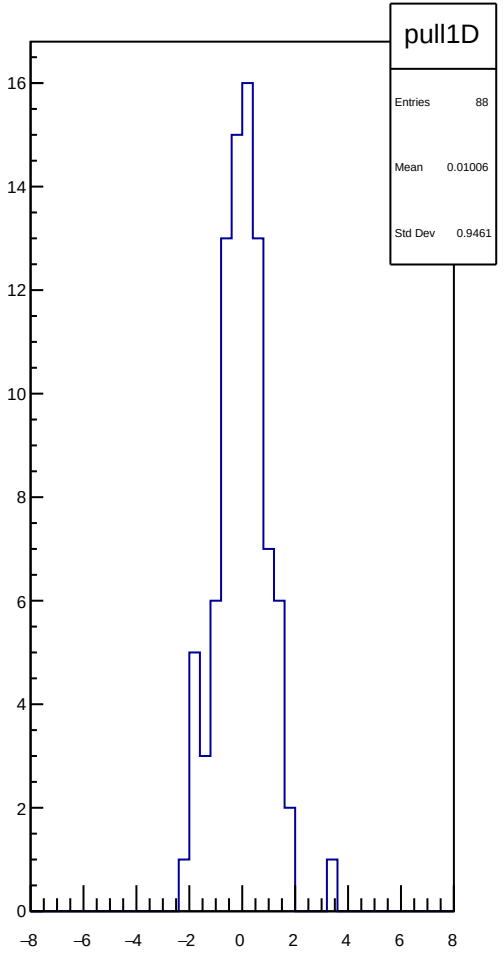

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 89.42 / 87
p0 −1.024e−14 ± 2.326e−14
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 62
Std Dev 31.4
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01425
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

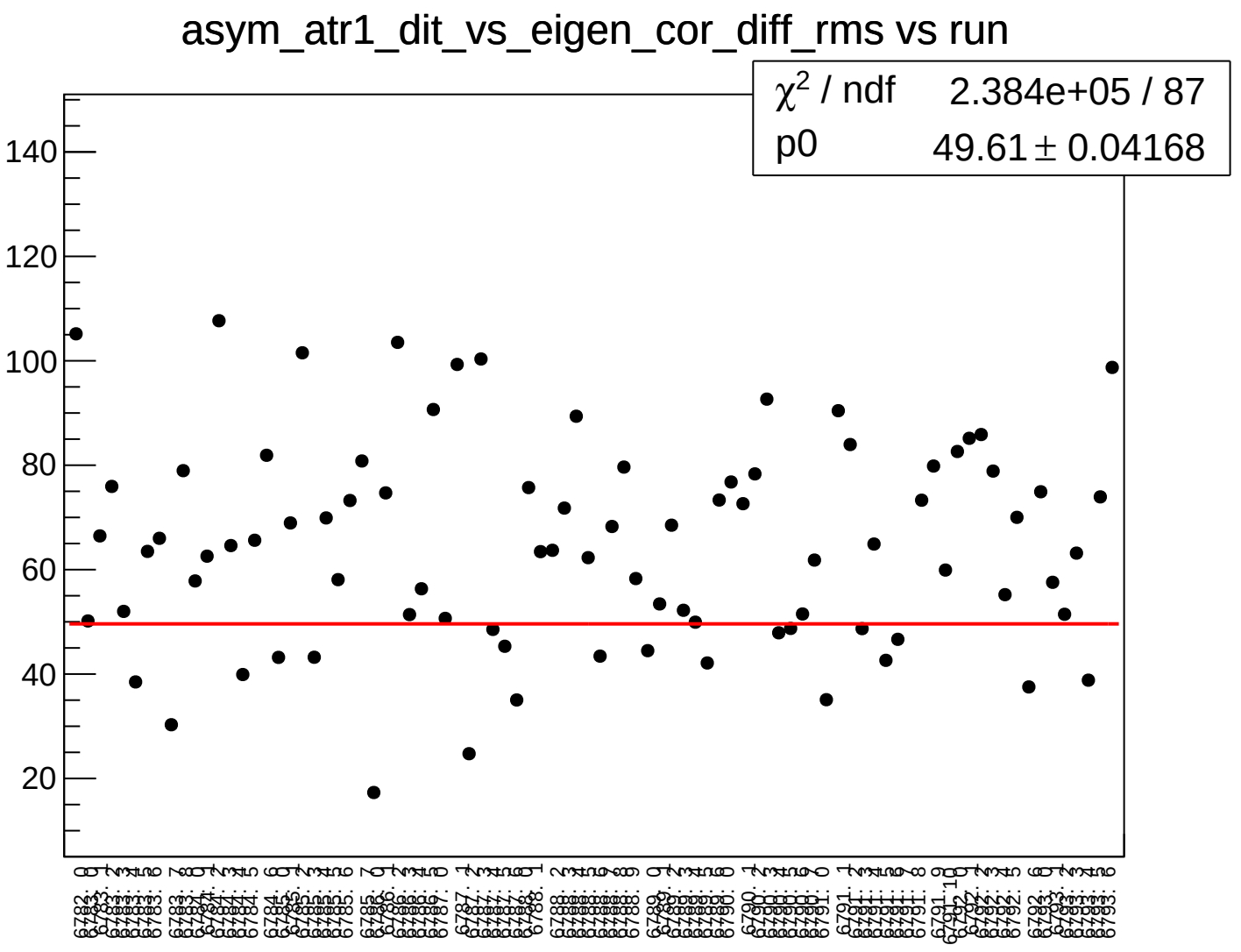

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.23e+06 / 87
p0 1.073e−11 ± 1.645e−14
2.5
2
1.5
1
0.5
0

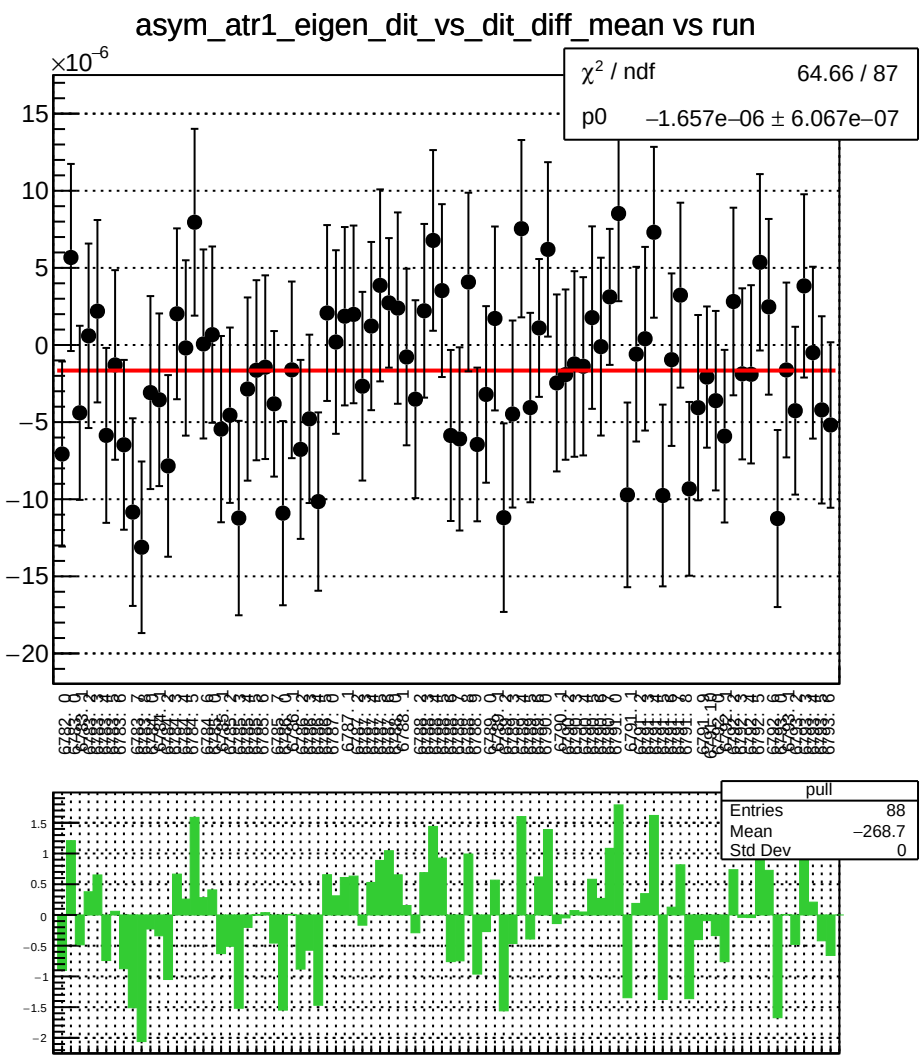

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 78.77 / 87
p0 −0.02522 ± 0.05895
pull
Entries 88
Mean 43.54
Std Dev 22.26
pull1D
Entries 88
Mean 0.01006
Std Dev 0.9461

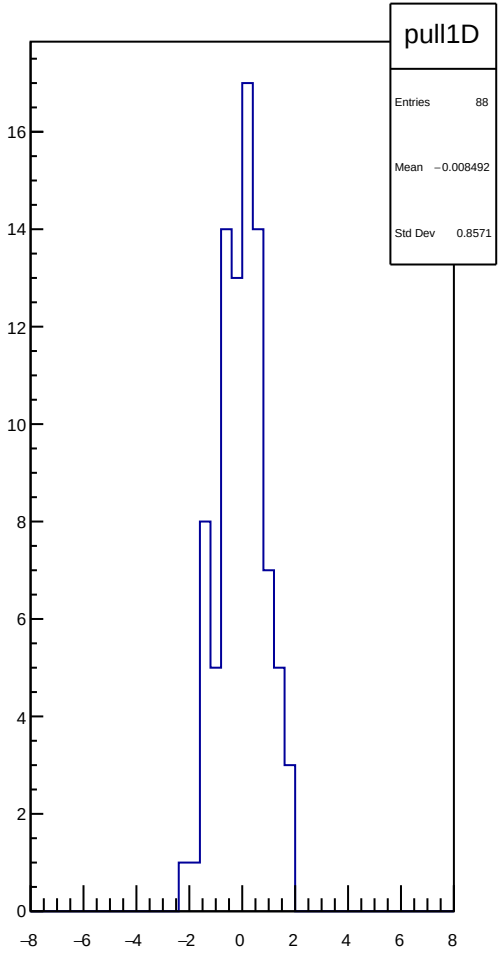

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.384e+05 / 87
p0 49.61 ± 0.04168
140
120
100
80
60
40
20

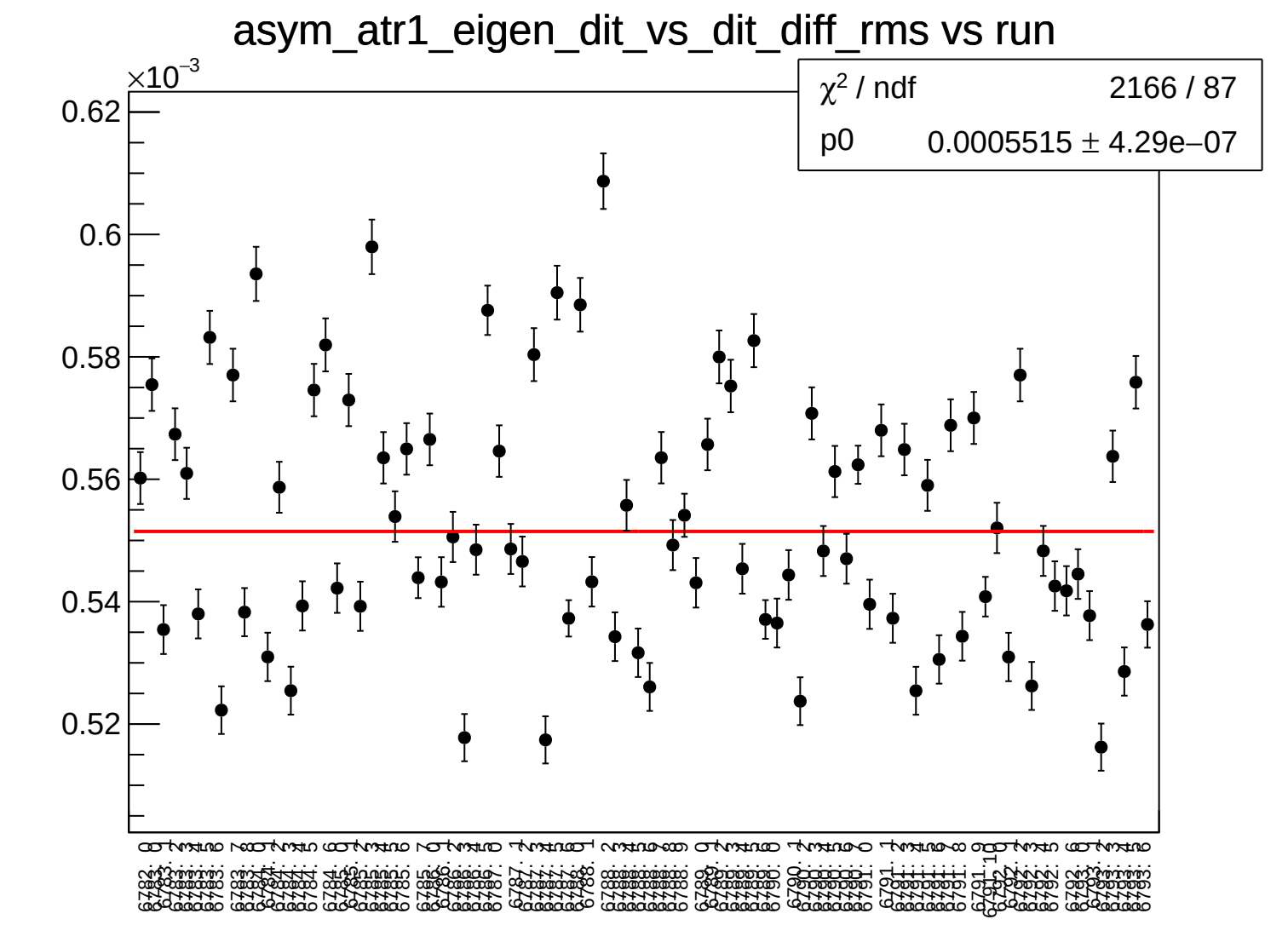

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.77 / 87
p0 −0.02522 ± 0.05895
pull
Entries 88
Mean 43.54
Std Dev 22.26

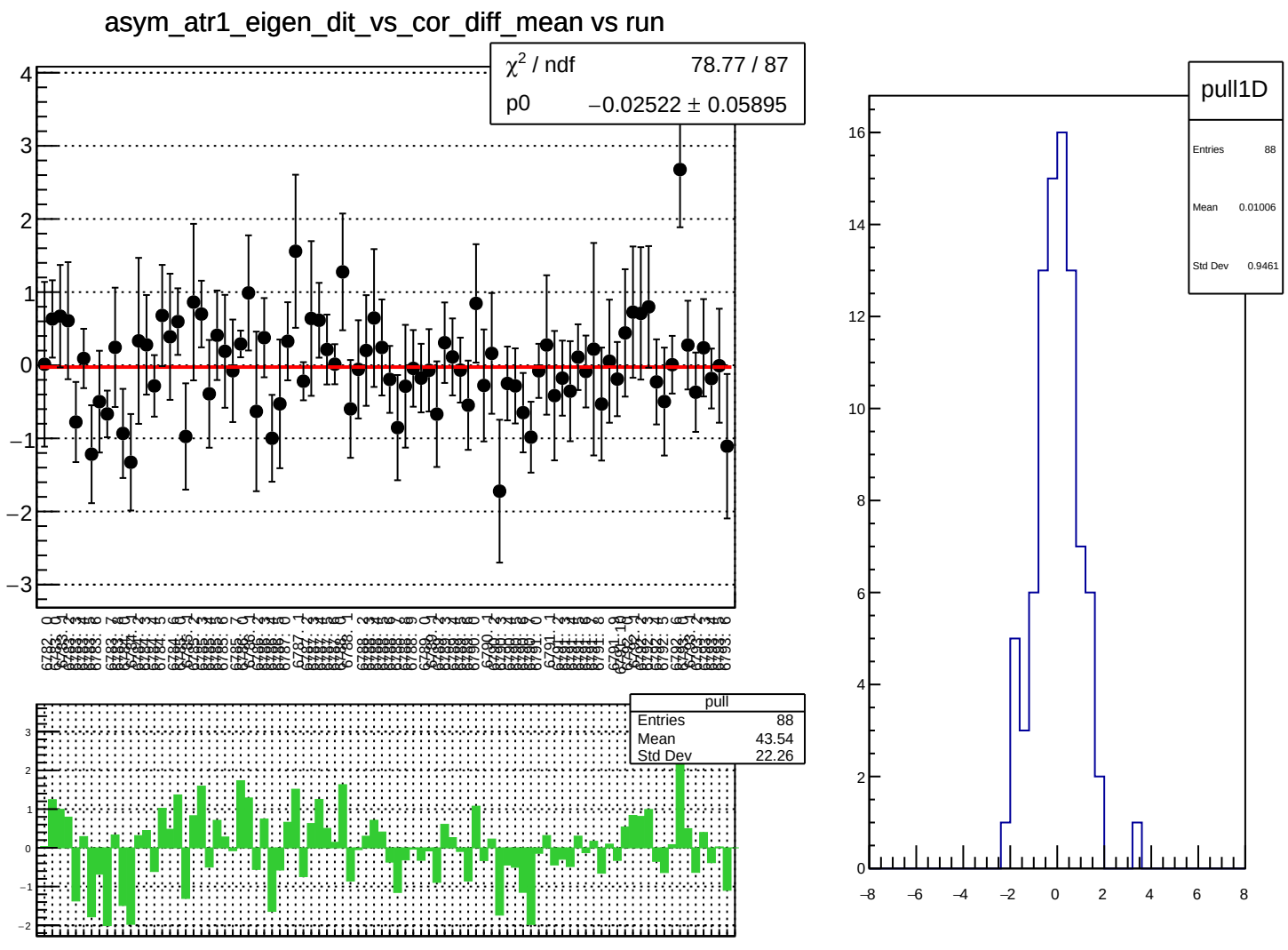

pull1D
Entries 88
Mean 0.01006
Std Dev 0.9461

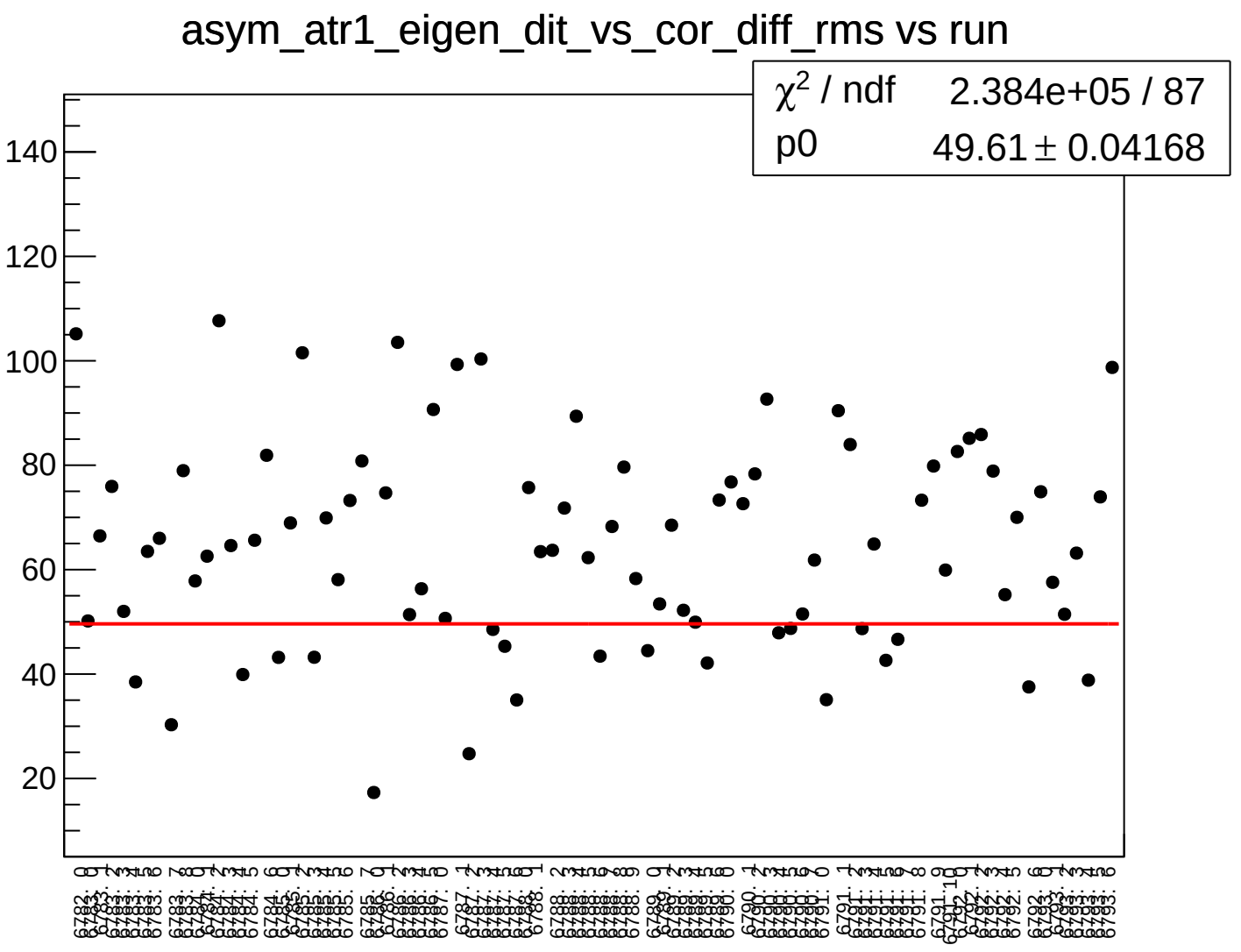

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.384e+05 / 87
p0 49.61 ± 0.04168
140
120
100
80
60
40
20

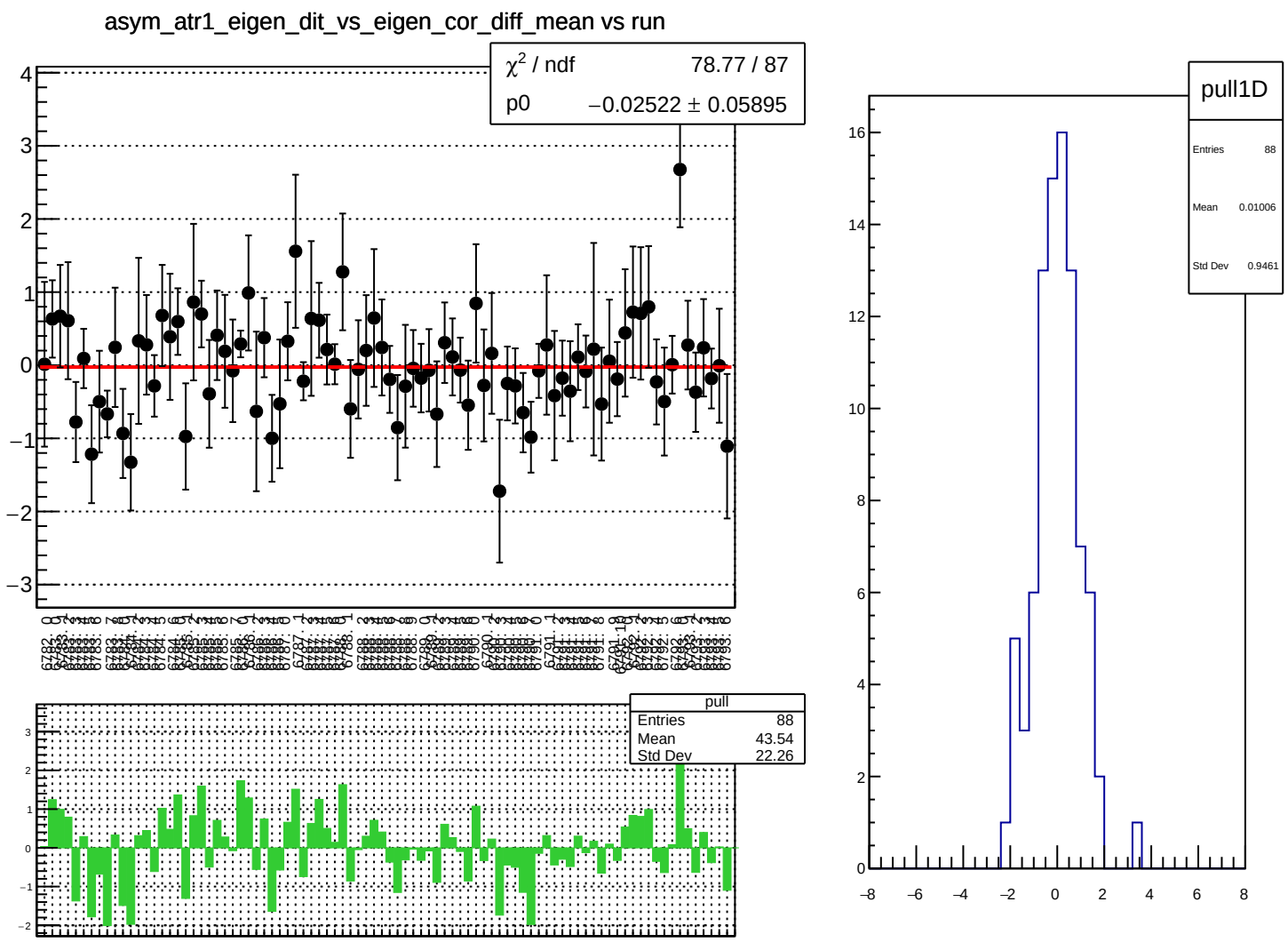

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 64.66 / 87
p0 −1.657e−06 ± 6.067e−07
pull
Entries 88
Mean −268.7
Std Dev 0

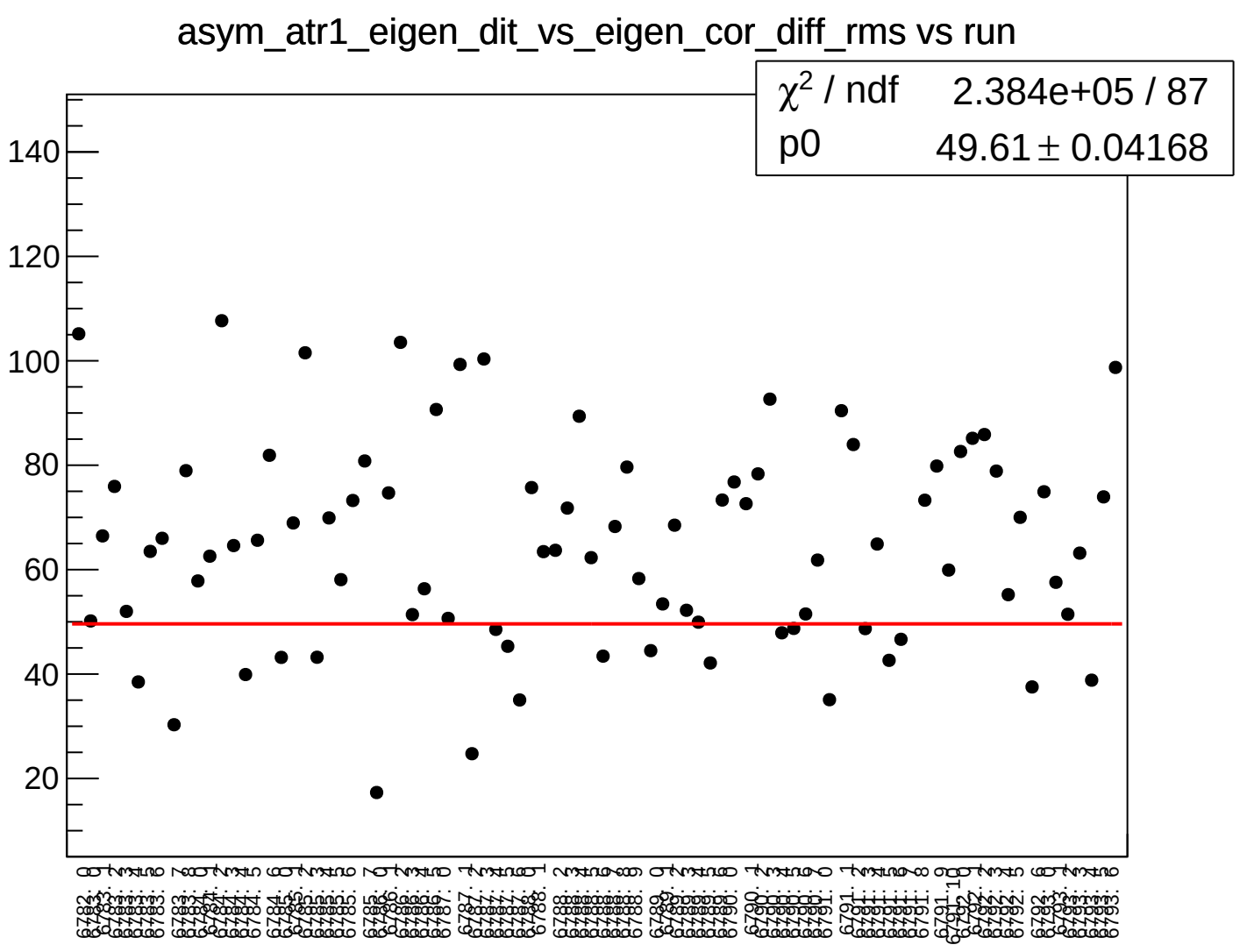

pull1D
Entries 88
Mean −0.008492
Std Dev 0.8571

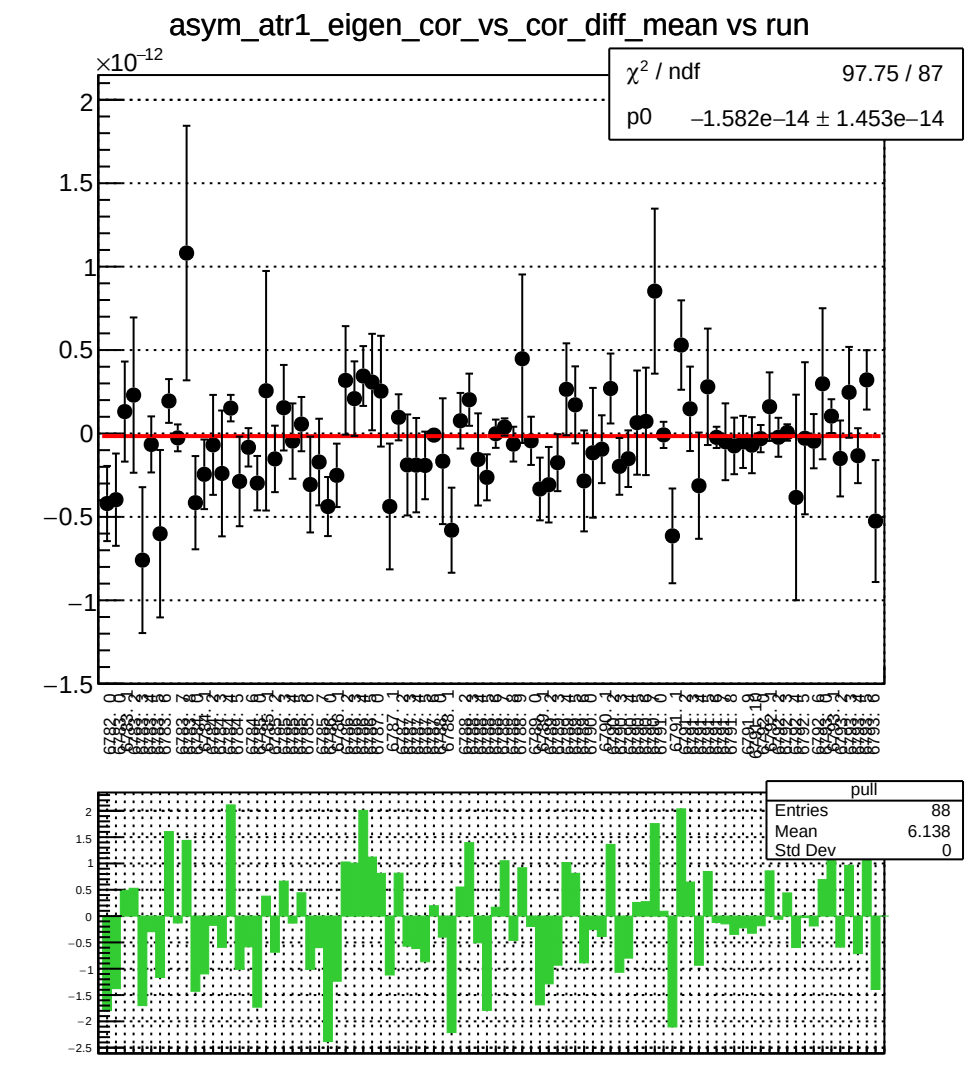

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2166 / 87
p0 0.0005515 ± 4.29e−07
0.62
0.6
0.58
0.56
0.54
0.52

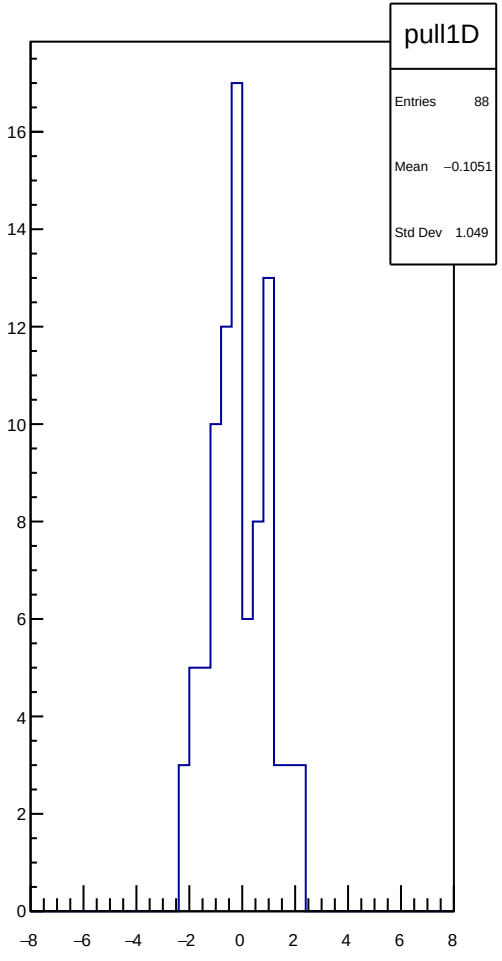

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.77 / 87
p0 −0.02522 ± 0.05895
pull
Entries 88
Mean 43.54
Std Dev 22.26
pull1D
Entries 88
Mean 0.01006
Std Dev 0.9461

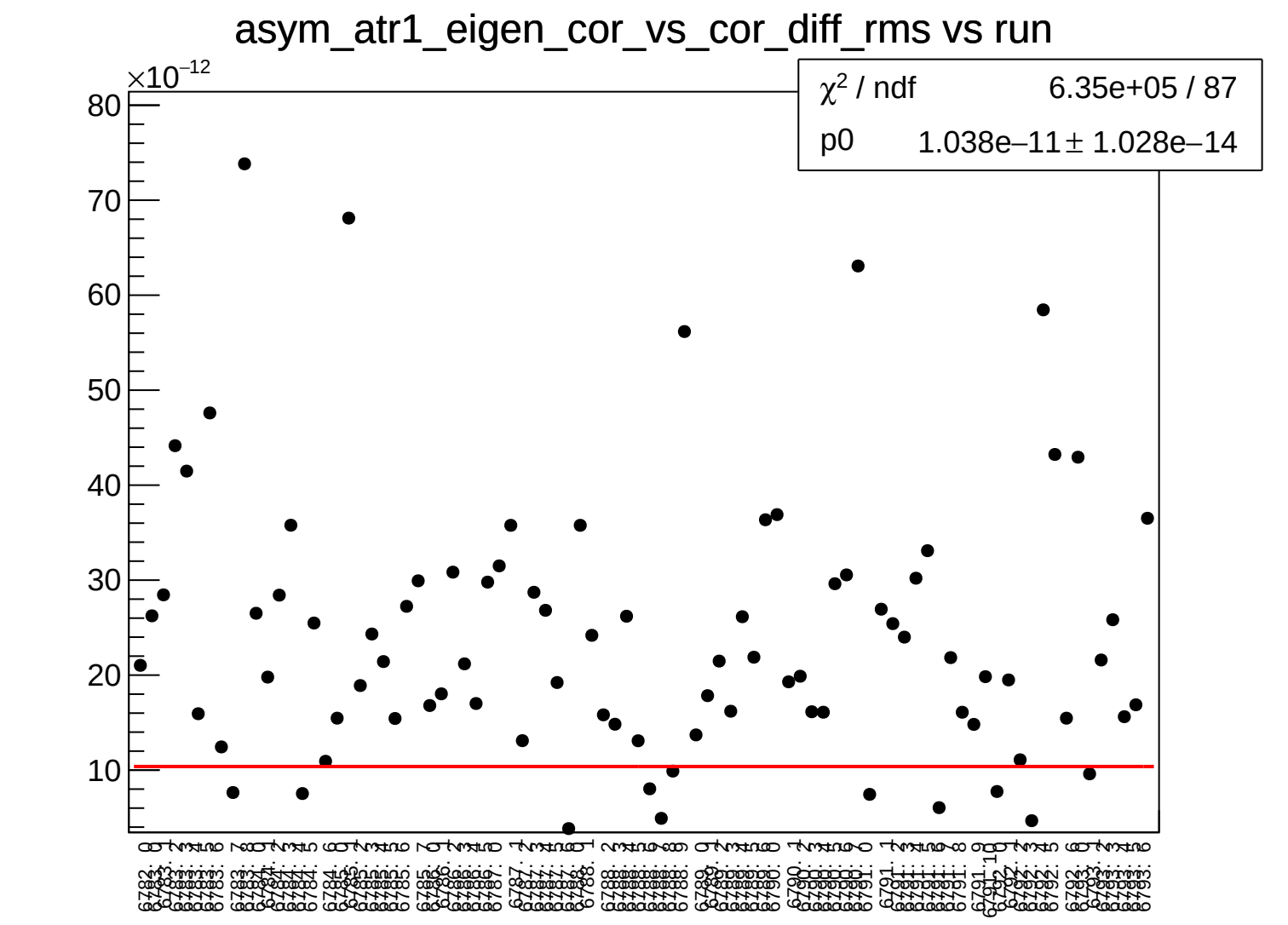

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.384e+05 / 87
p0 49.61 ± 0.04168
140
120
100
80
60
40
20

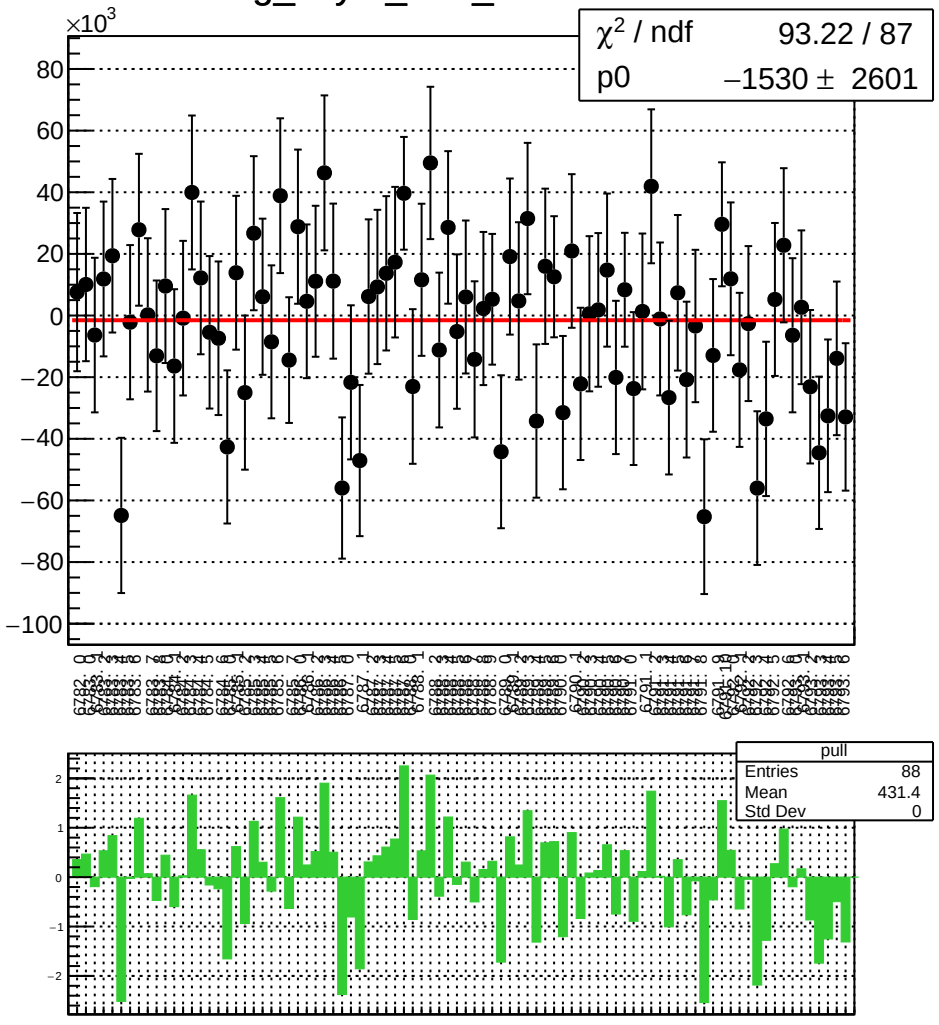

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.77 / 87
p0 −0.02522 ± 0.05895
pull
Entries 88
Mean 43.54
Std Dev 22.26
pull1D
Entries 88
Mean 0.01006
Std Dev 0.9461

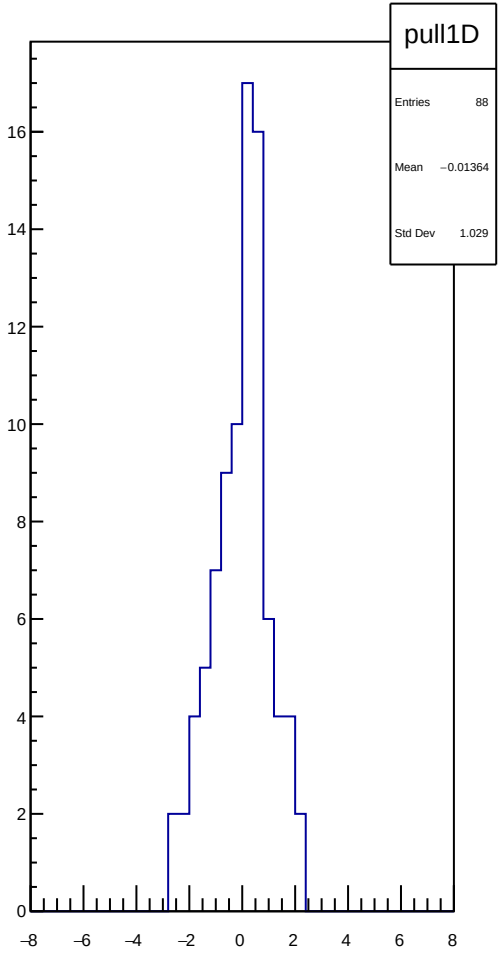

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.384e+05 / 87
p0 49.61 ± 0.04168
140
120
100
80
60
40
20

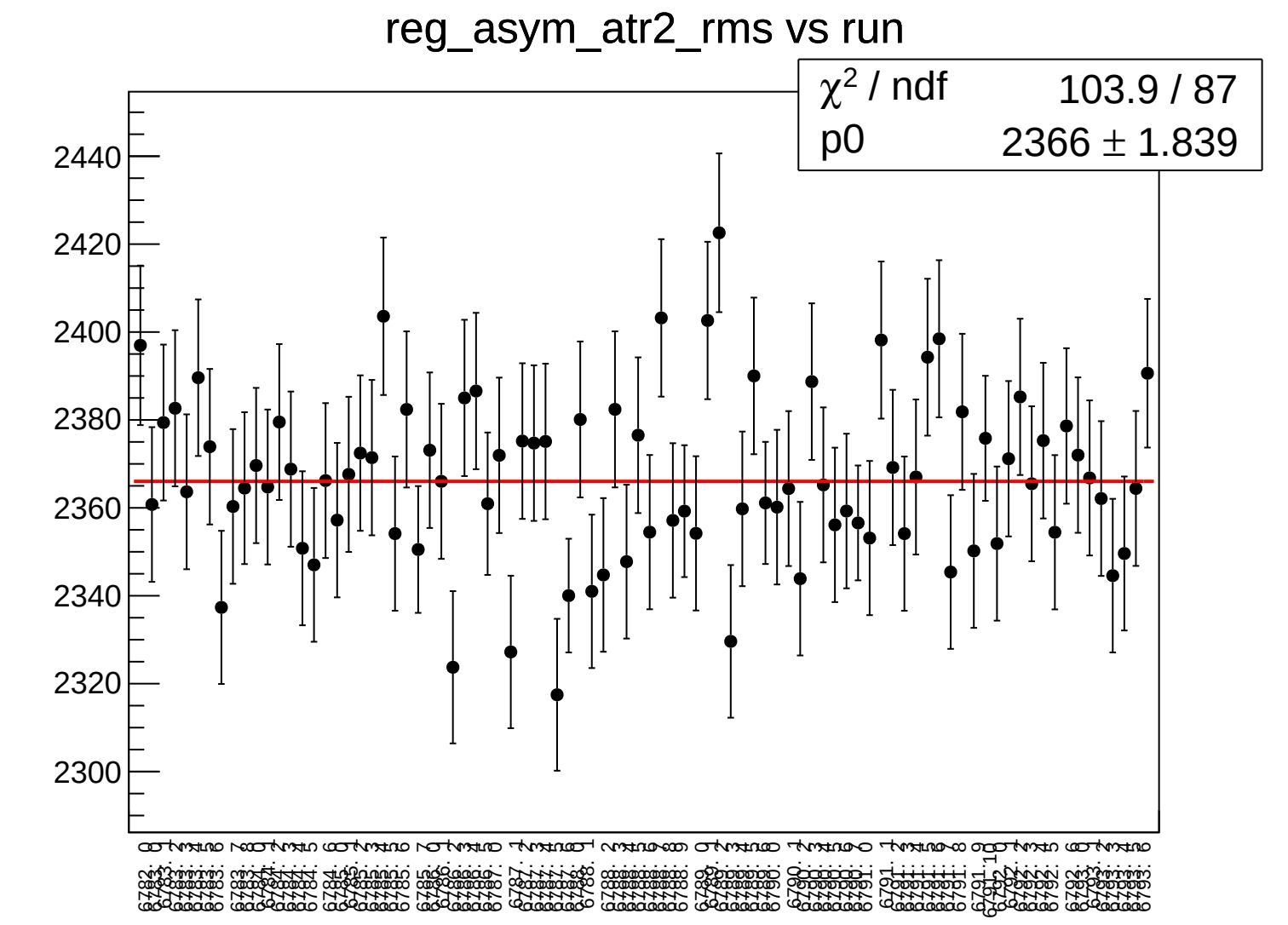

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.75 / 87
p0 −1.582e−14 ± 1.453e−14
pull
Entries 88
Mean 6.138
Std Dev 0

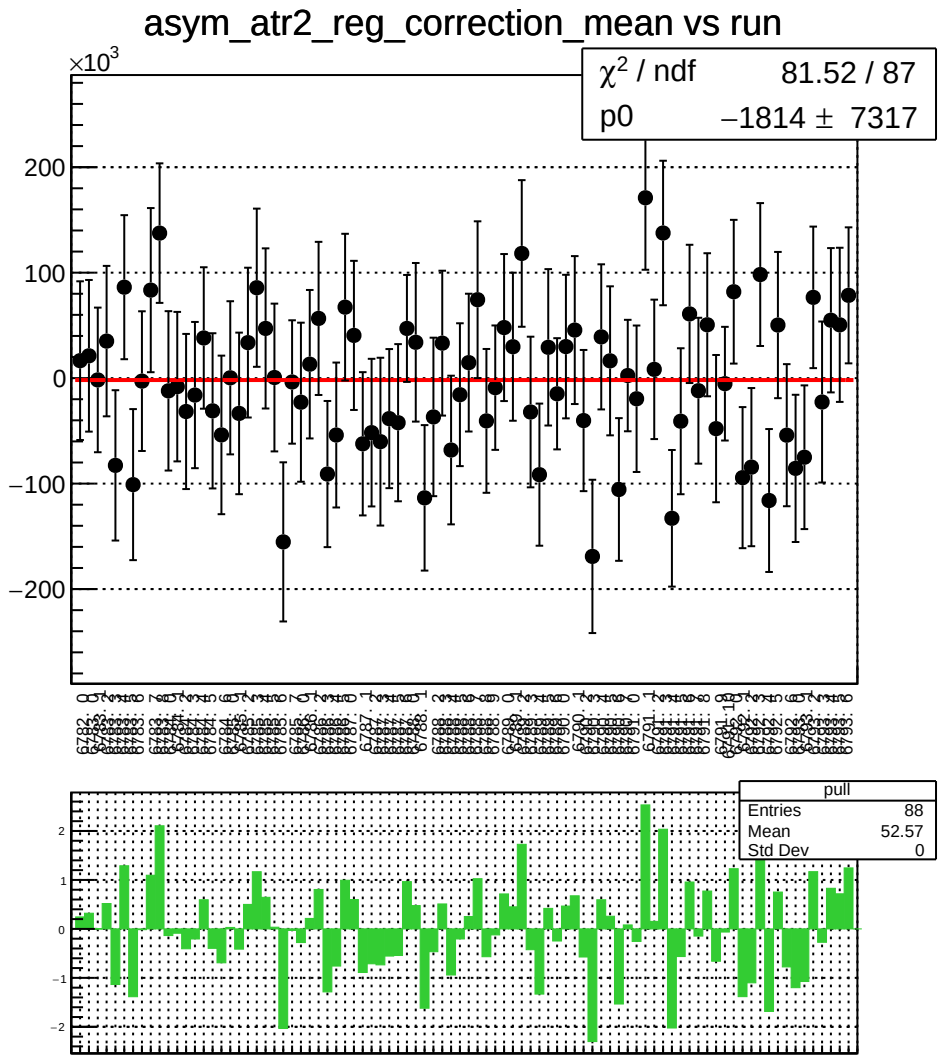

pull1D
Entries 88
Mean −0.1051
Std Dev 1.049

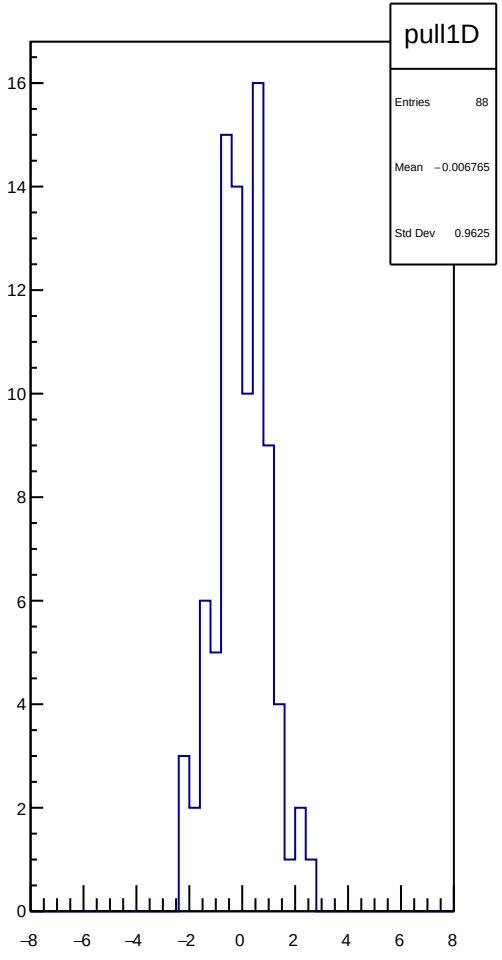

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 6.35e+05 / 87
p0 1.038e−11 ± 1.028e−14

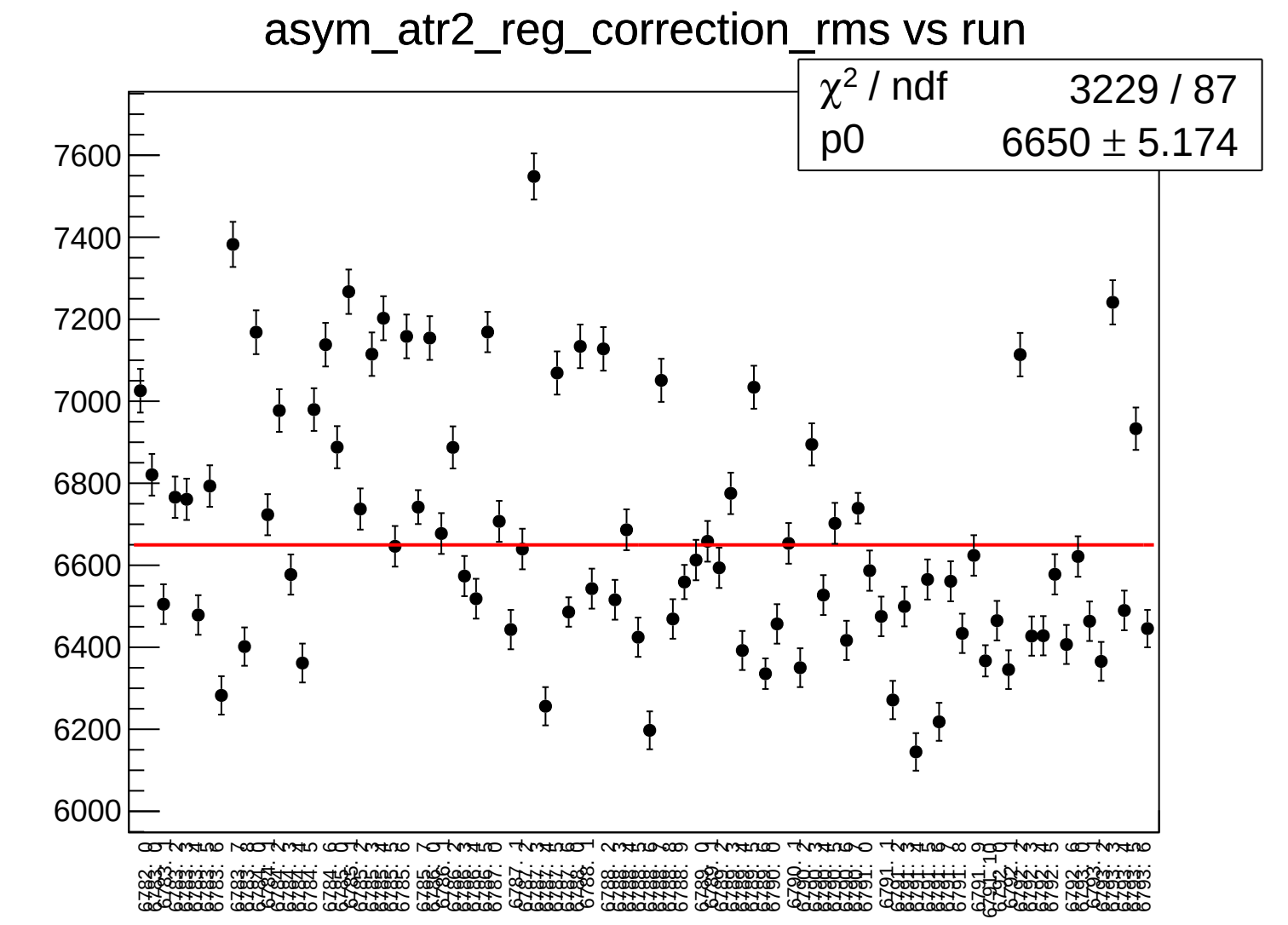

reg_asym_atr2_mean vs run
χ^2 / ndf 93.22 / 87
p0 −1530 ± 2601
pull
Entries 88
Mean 431.4
Std Dev 0

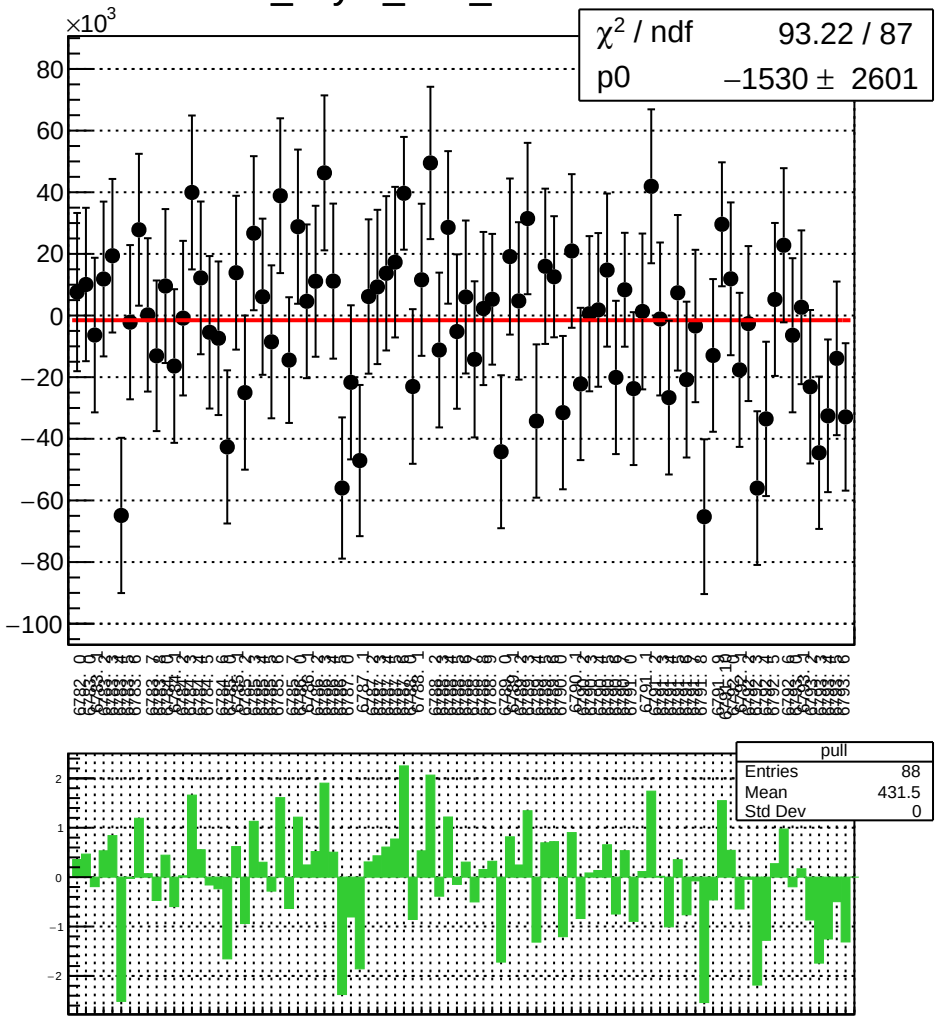

pull1D
Entries 88
Mean −0.01364
Std Dev 1.029

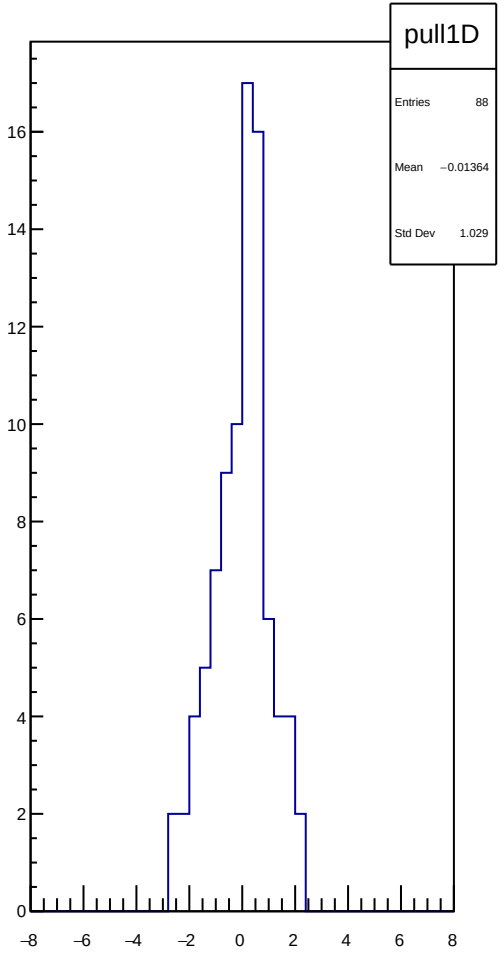

reg_asym_atr2_rms vs run
χ^2 / ndf 103.9 / 87
p0 2366 ± 1.839
2440
2420
2400
2380
2360
2340
2320
2300

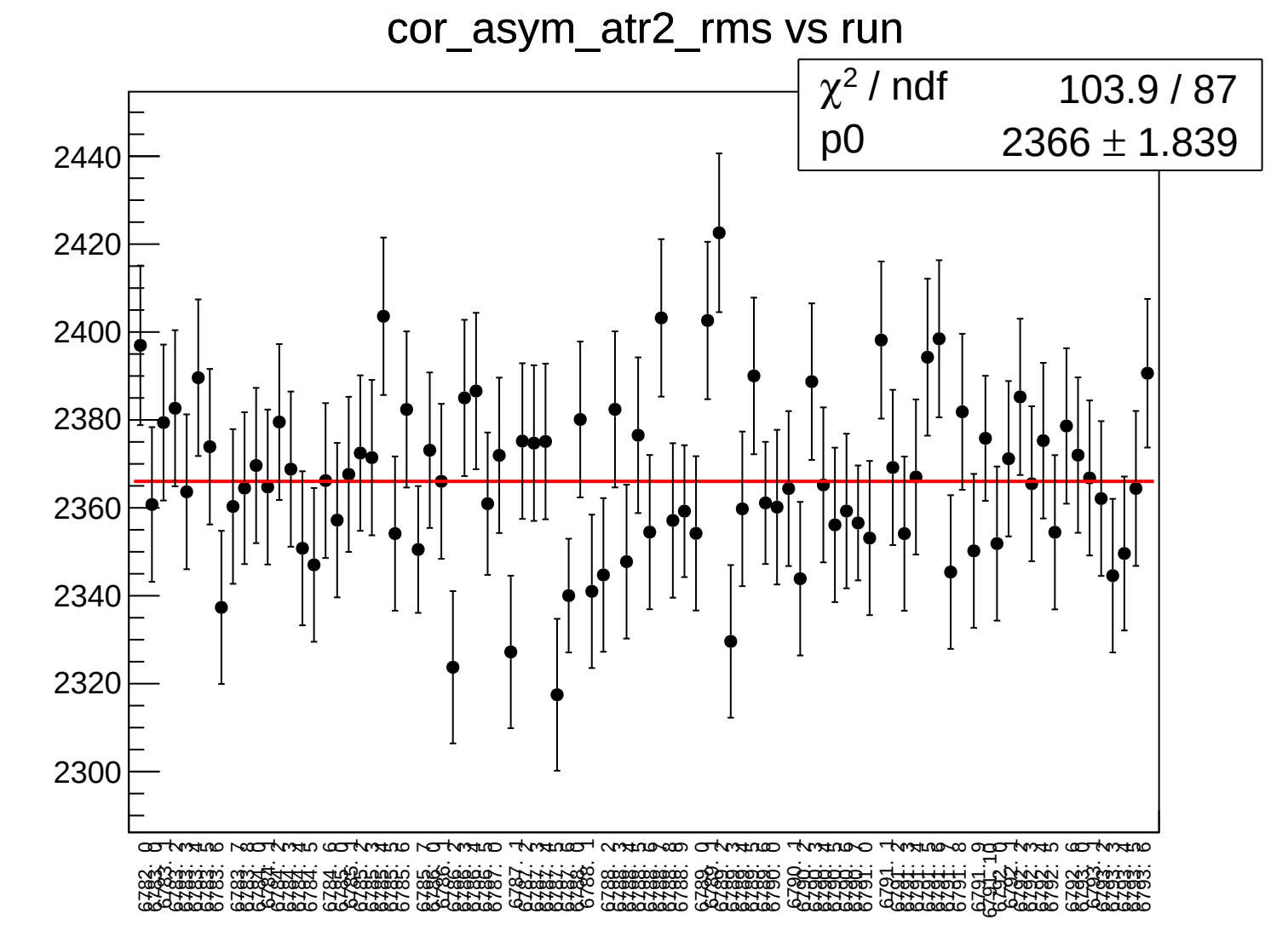

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 81.52 / 87
p0 −1814 ± 7317
200
100
0
−100
−200
pull
Entries 88
Mean 52.57
Std Dev 0
2
1
0
−1
−2

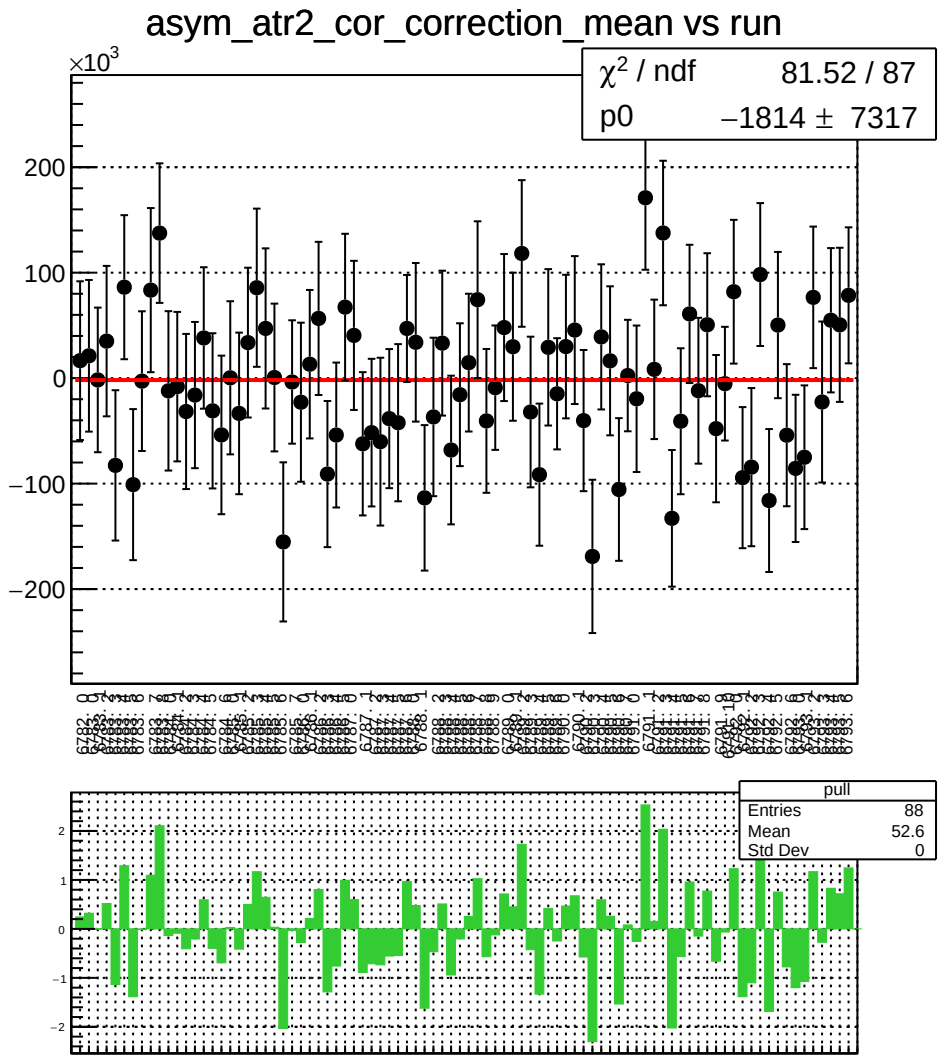

pull1D
Entries 88
Mean −0.006765
Std Dev 0.9625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

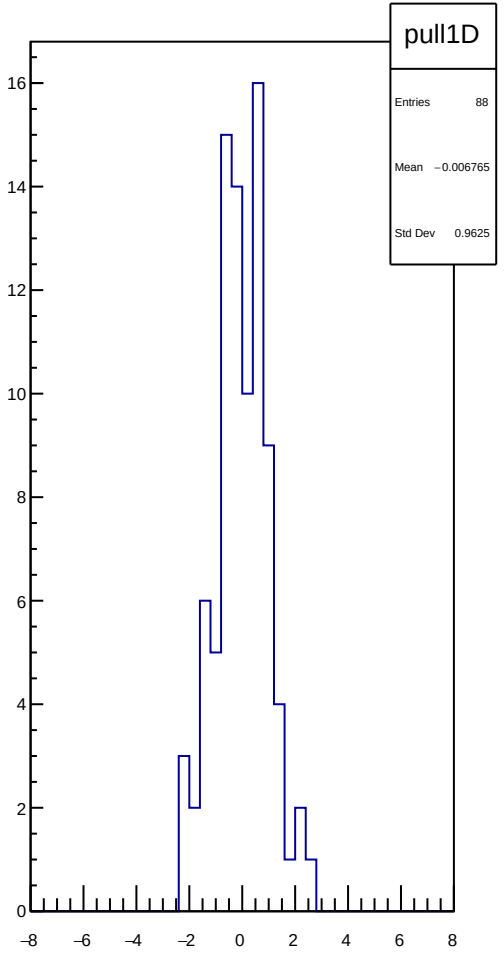

asym_atr2_reg_correction_rms vs run
χ² / ndf 3229 / 87
p0 6650 ± 5.174
7600
7400
7200
7000
6800
6600
6400
6200
6000

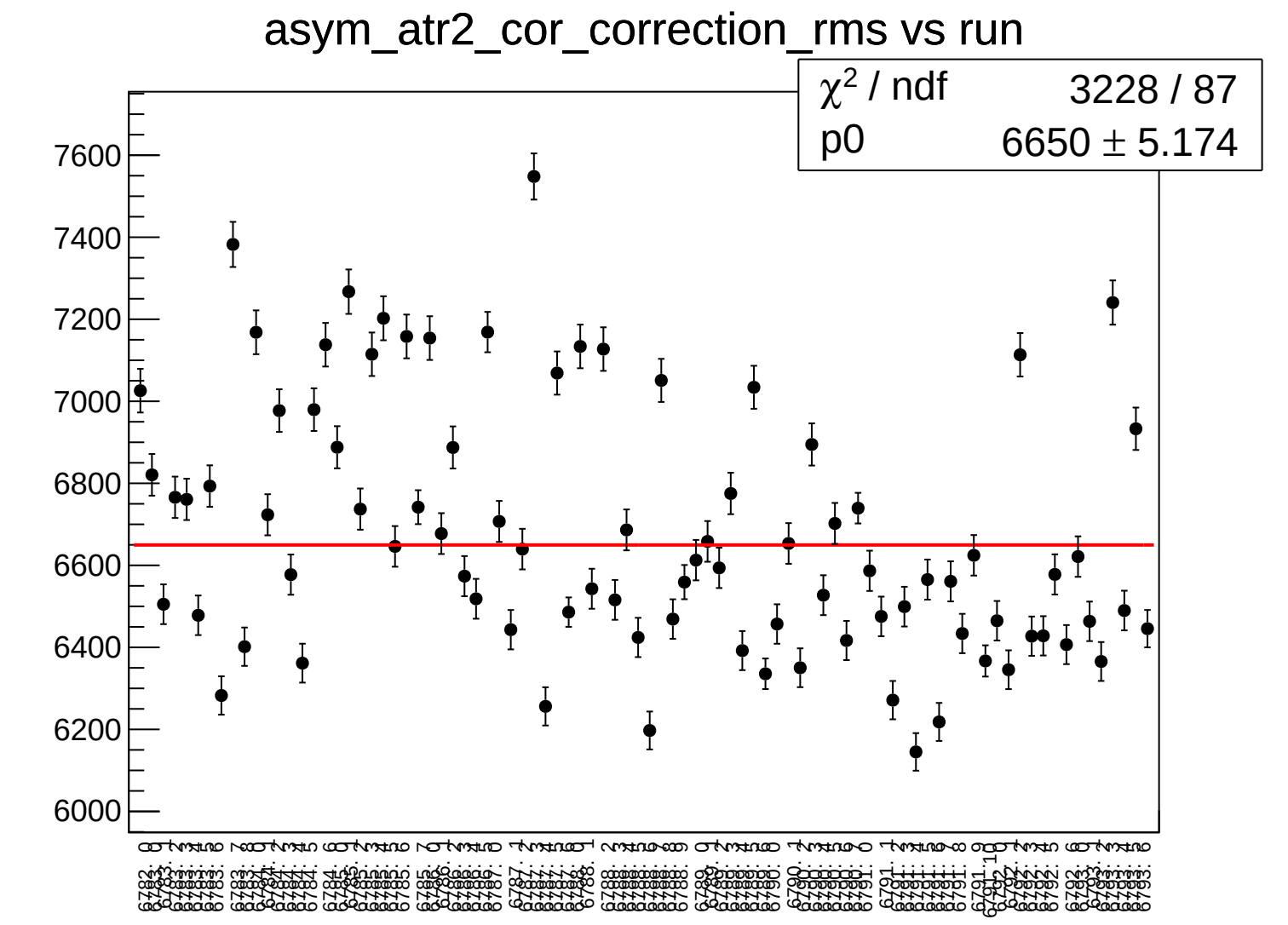

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 93.22 / 87
p0 −1530 ± 2601
pull
Entries 88
Mean 431.5
Std Dev 0

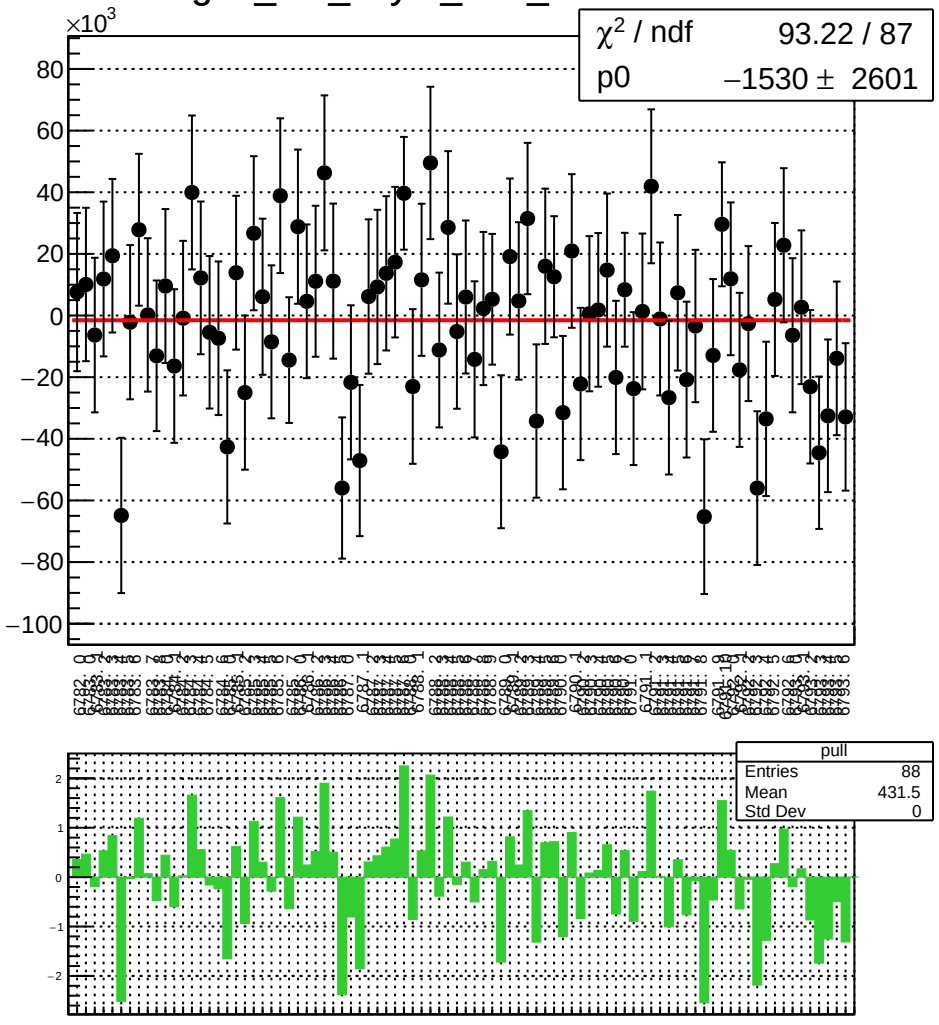

pull1D
Entries 88
Mean −0.01364
Std Dev 1.029

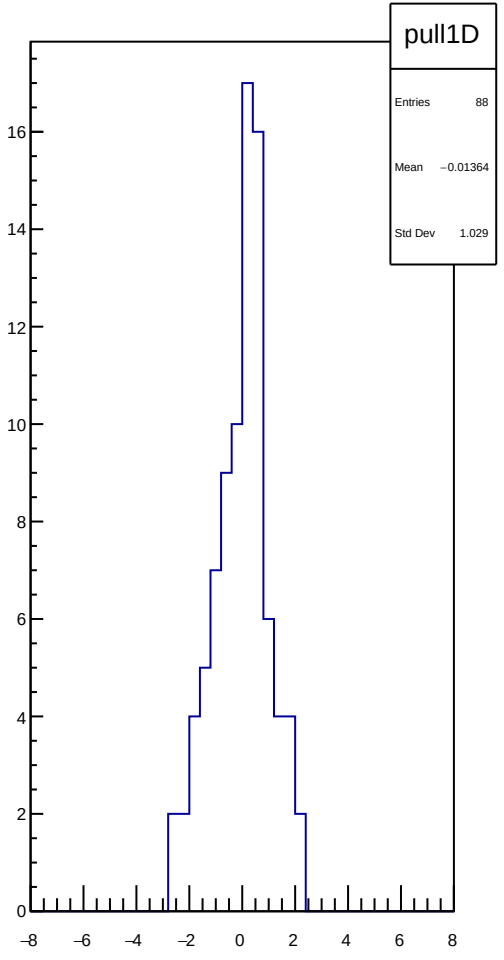

cor_asym_atr2_rms vs run
χ^2 / ndf 103.9 / 87
p0 2366 ± 1.839
2440
2420
2400
2380
2360
2340
2320
2300

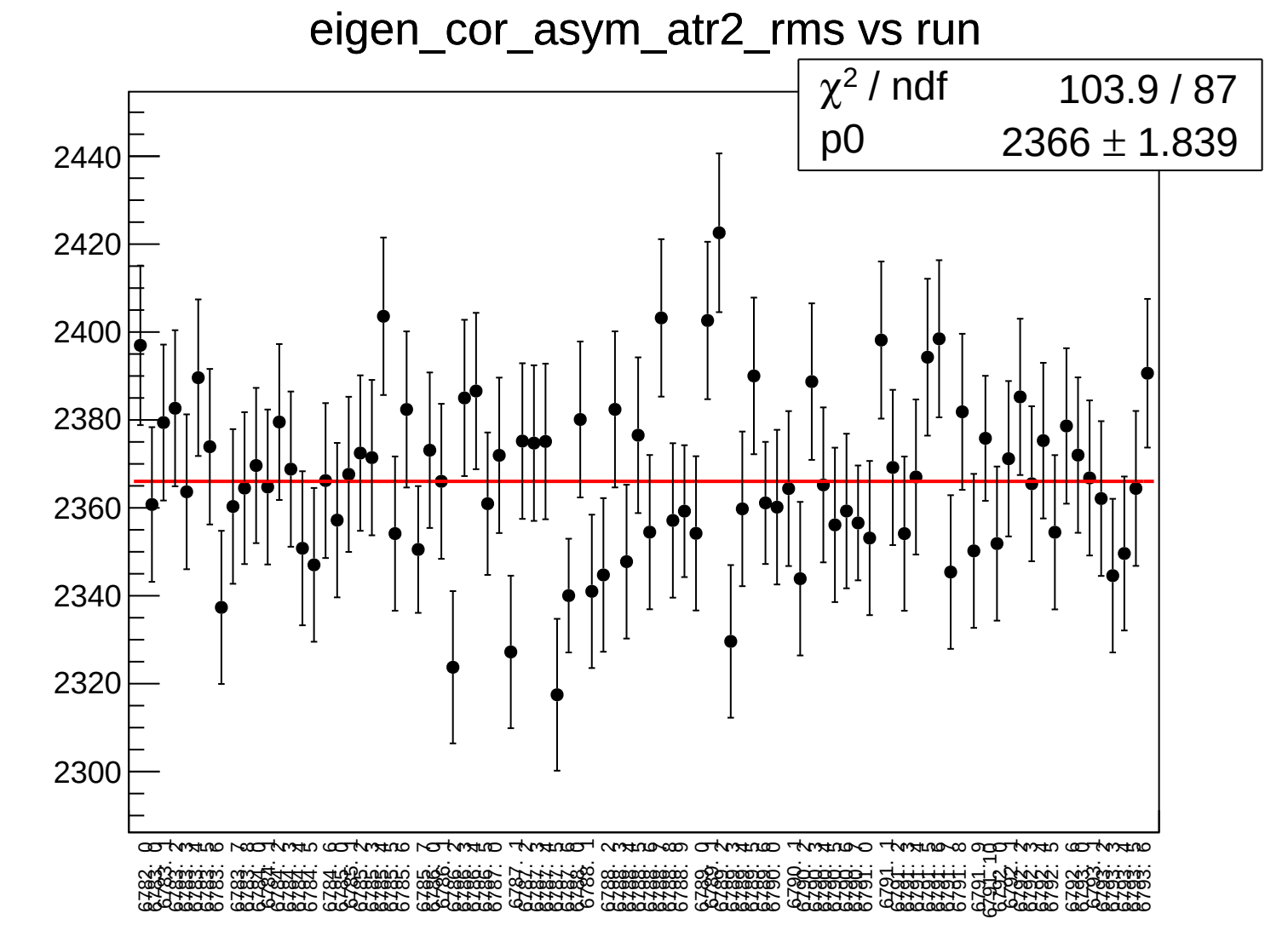

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 81.52 / 87
p0 −1814 ± 7317
200
100
0
−100
−200
pull
Entries 88
Mean 52.6
Std Dev 0
2
1
0
−1
−2

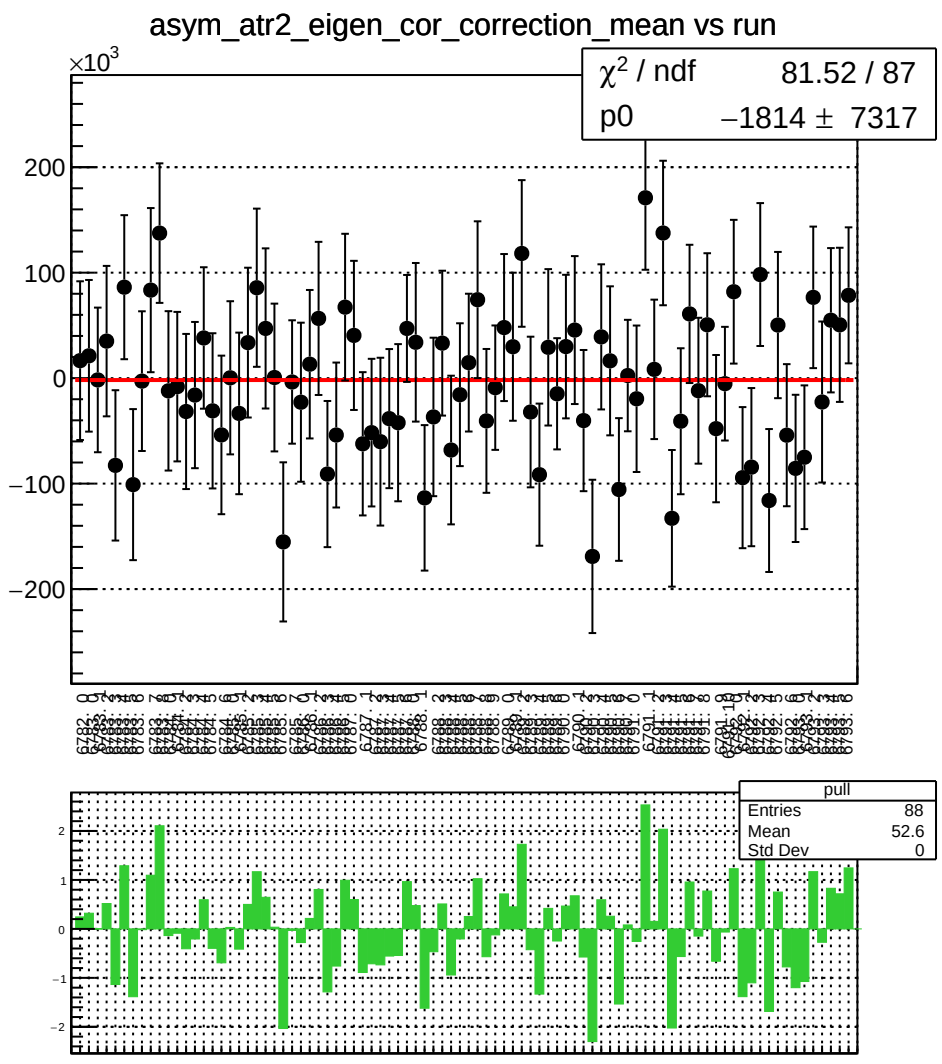

pull1D
Entries 88
Mean −0.006765
Std Dev 0.9625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

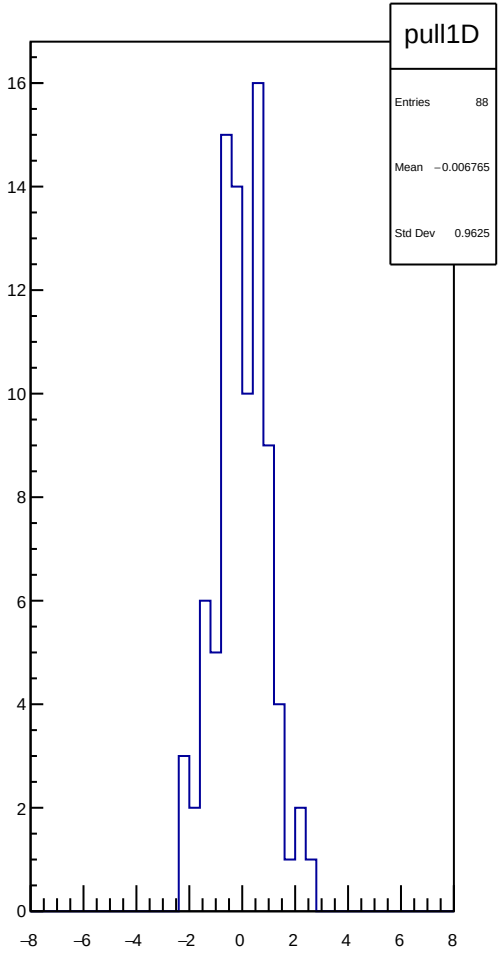

asym_atr2_cor_correction_rms vs run
χ² / ndf 3228 / 87
p0 6650 ± 5.174
7600
7400
7200
7000
6800
6600
6400
6200
6000

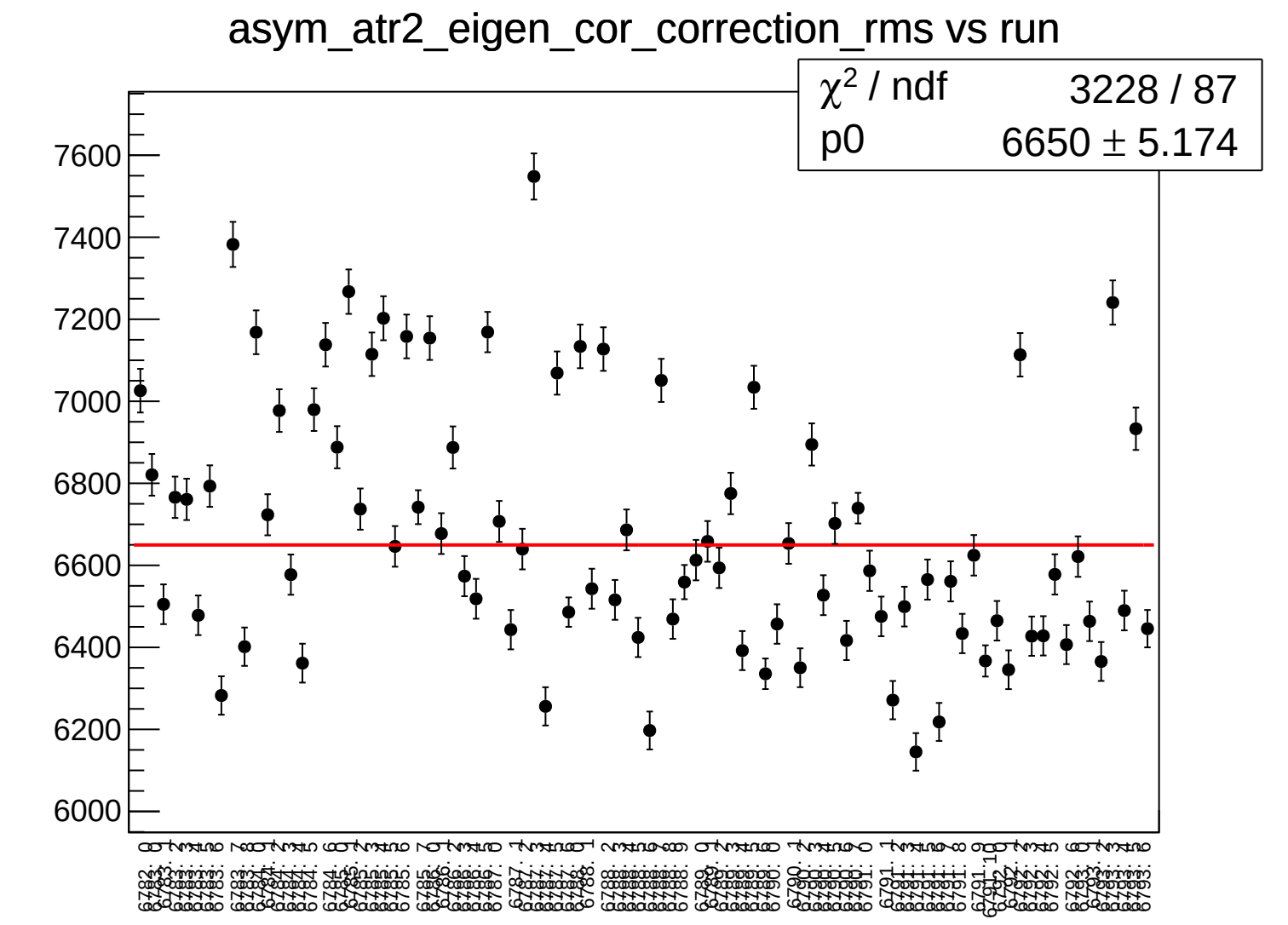

eigen_cor_asym_atr2_mean vs run
χ² / ndf 93.22 / 87
p0 −1530 ± 2601
pull
Entries 88
Mean 431.5
Std Dev 0

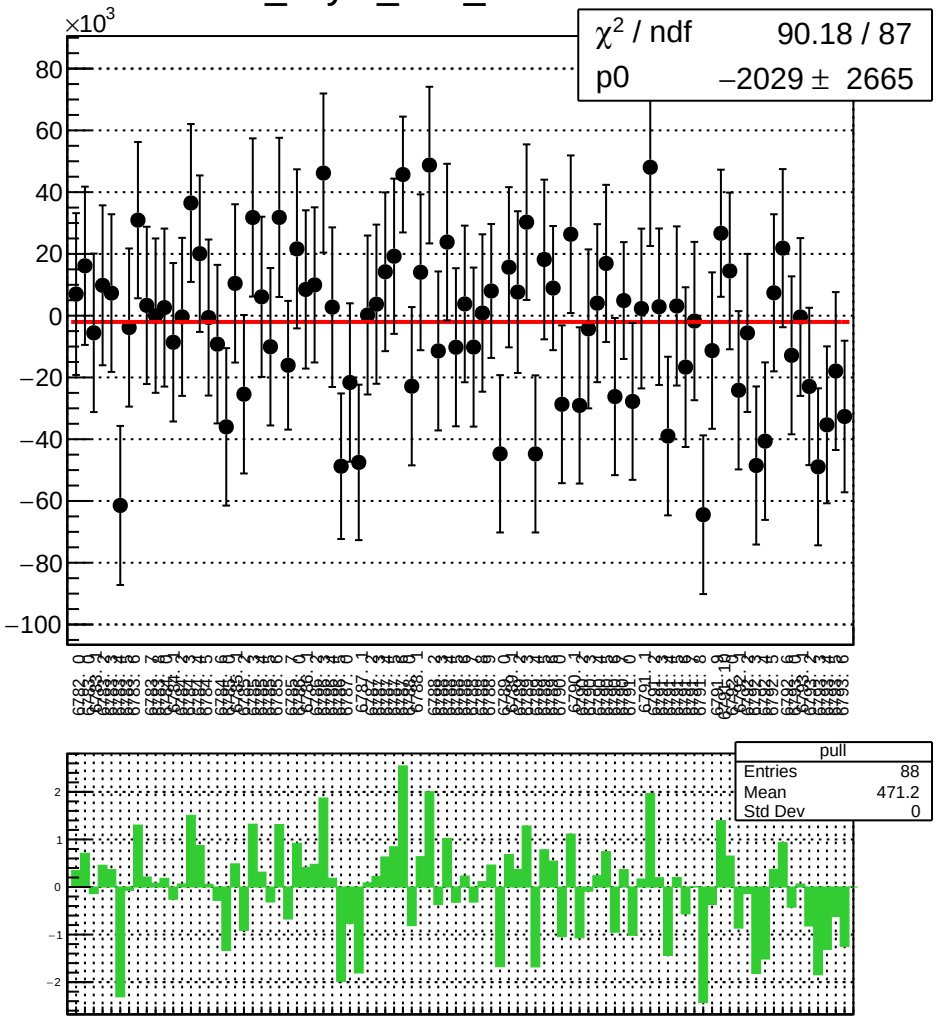

pull1D
Entries 88
Mean −0.01364
Std Dev 1.029

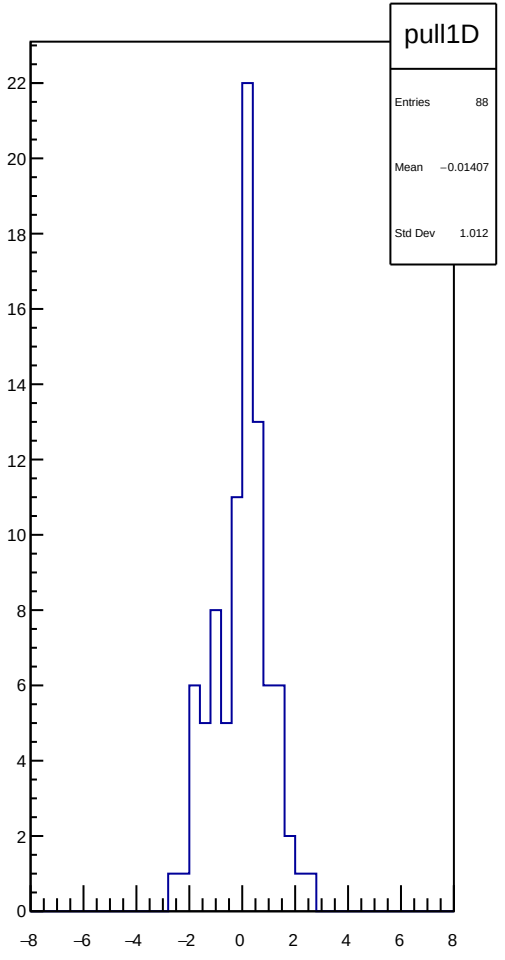

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 103.9 / 87
p0 2366 ± 1.839
2440
2420
2400
2380
2360
2340
2320
2300

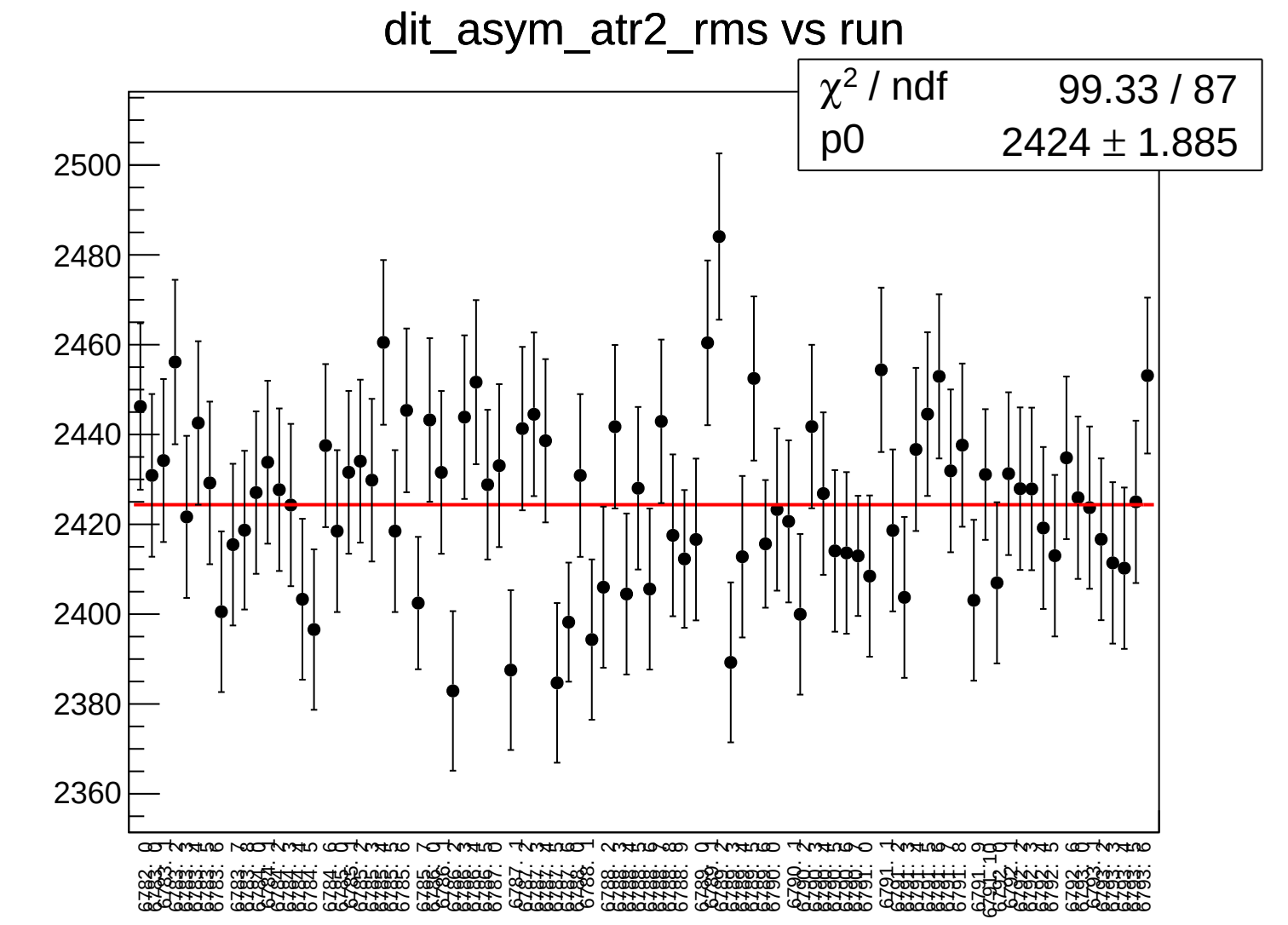

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.52 / 87
p0 −1814 ± 7317
200
100
0
−100
−200
pull
Entries 88
Mean 52.6
Std Dev 0
2
1
0
−1
−2

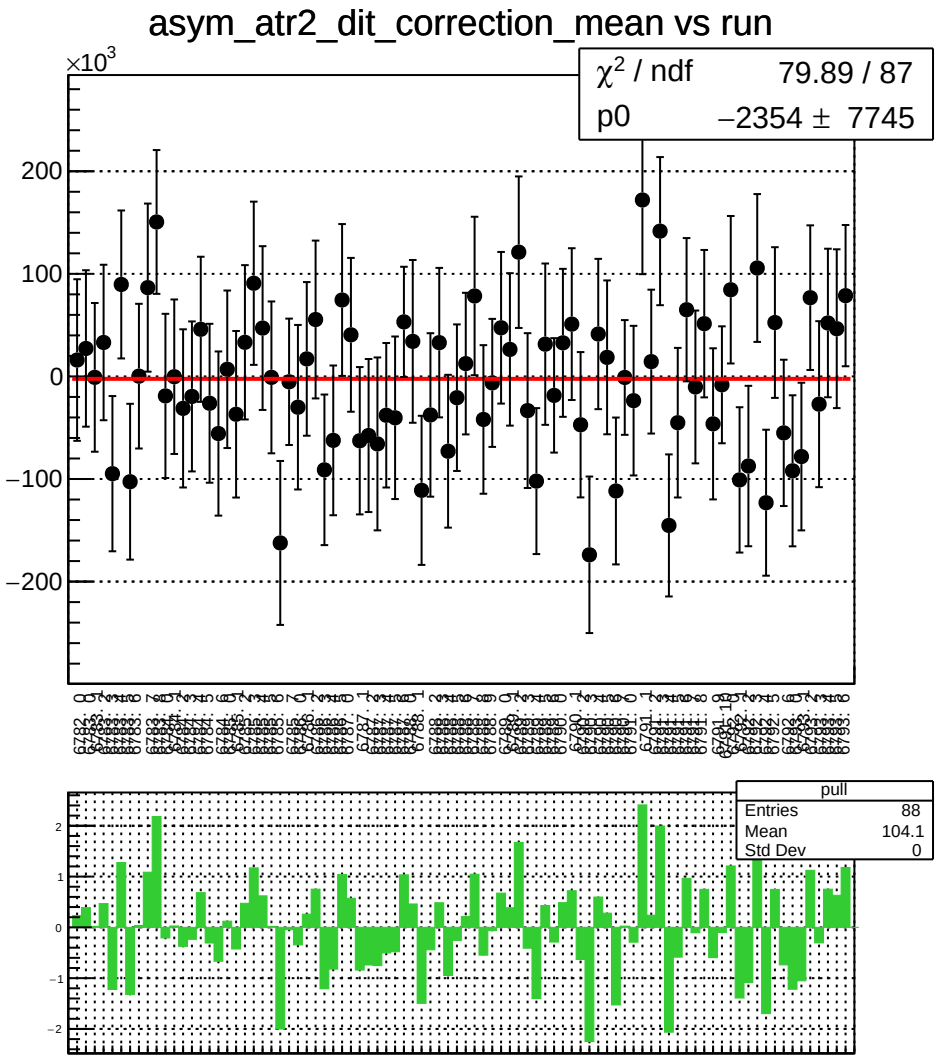

pull1D
Entries 88
Mean −0.006765
Std Dev 0.9625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

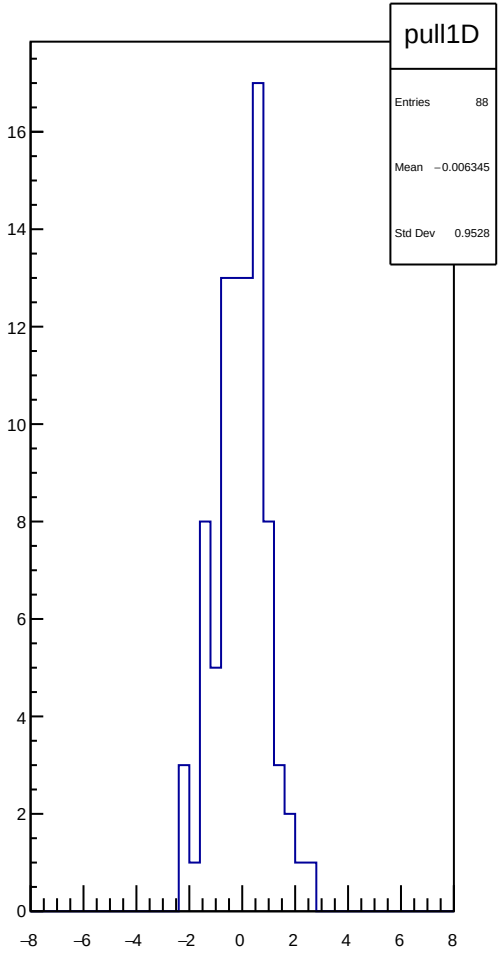

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3228 / 87
p0 6650 ± 5.174
7600
7400
7200
7000
6800
6600
6400
6200
6000

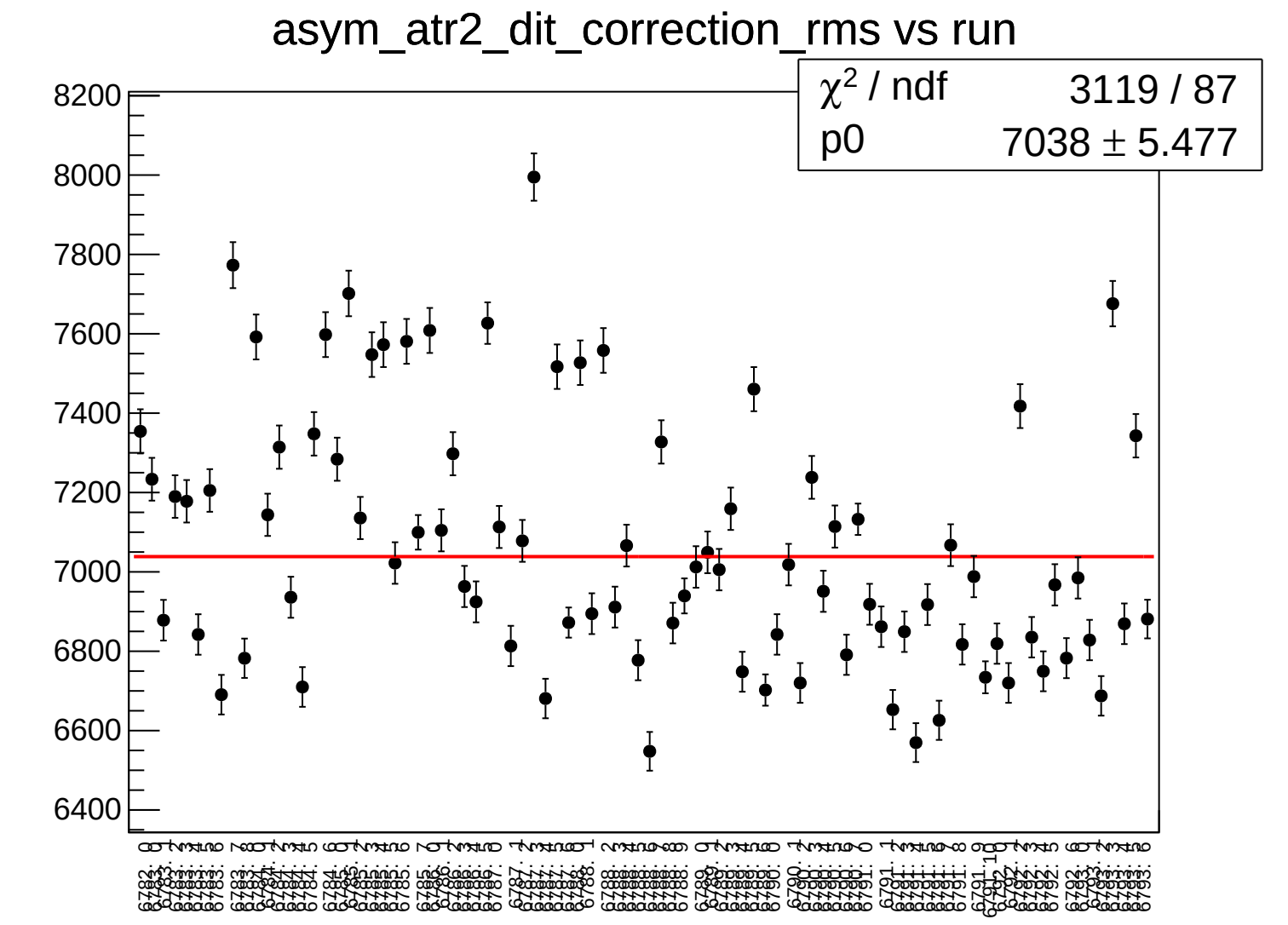

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 90.18 / 87
p0 −2029 ± 2665
pull
Entries 88
Mean 471.2
Std Dev 0

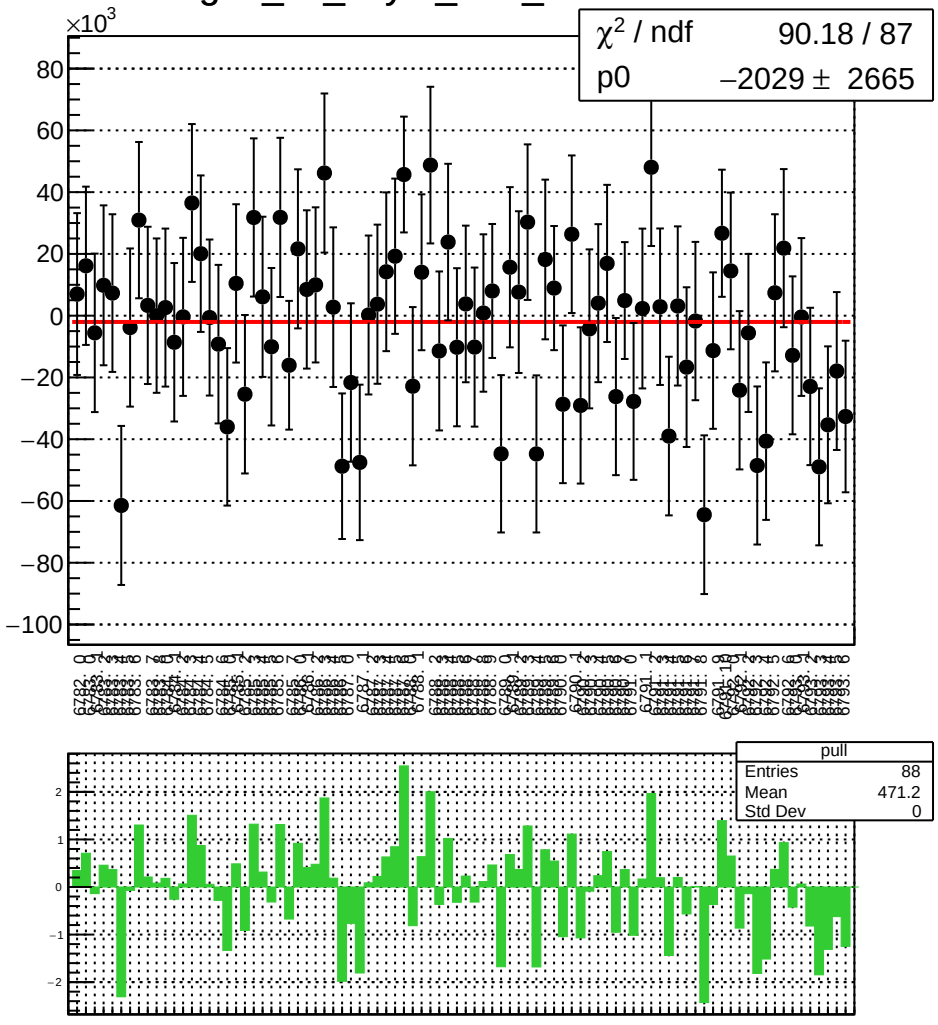

pull1D
Entries 88
Mean −0.01407
Std Dev 1.012

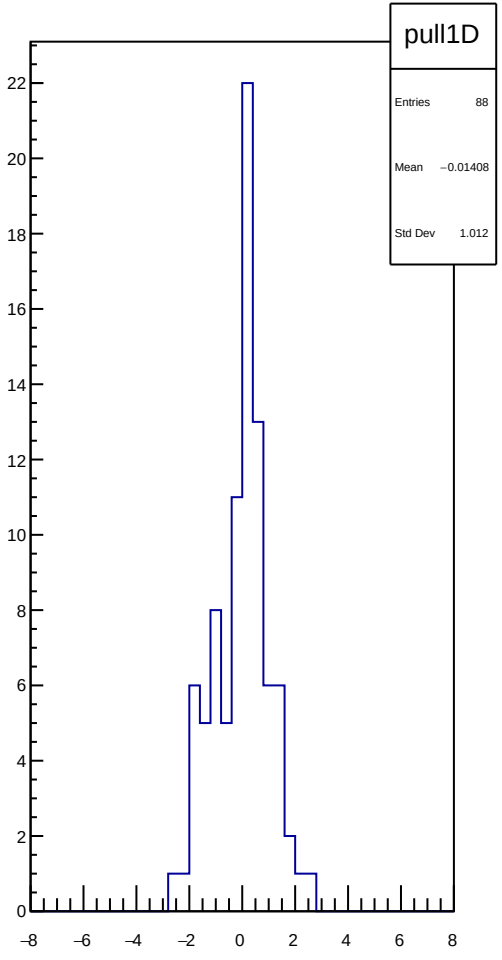

dit_asym_atr2_rms vs run
χ^2 / ndf 99.33 / 87
p0 2424 ± 1.885
2500
2480
2460
2440
2420
2400
2380
2360

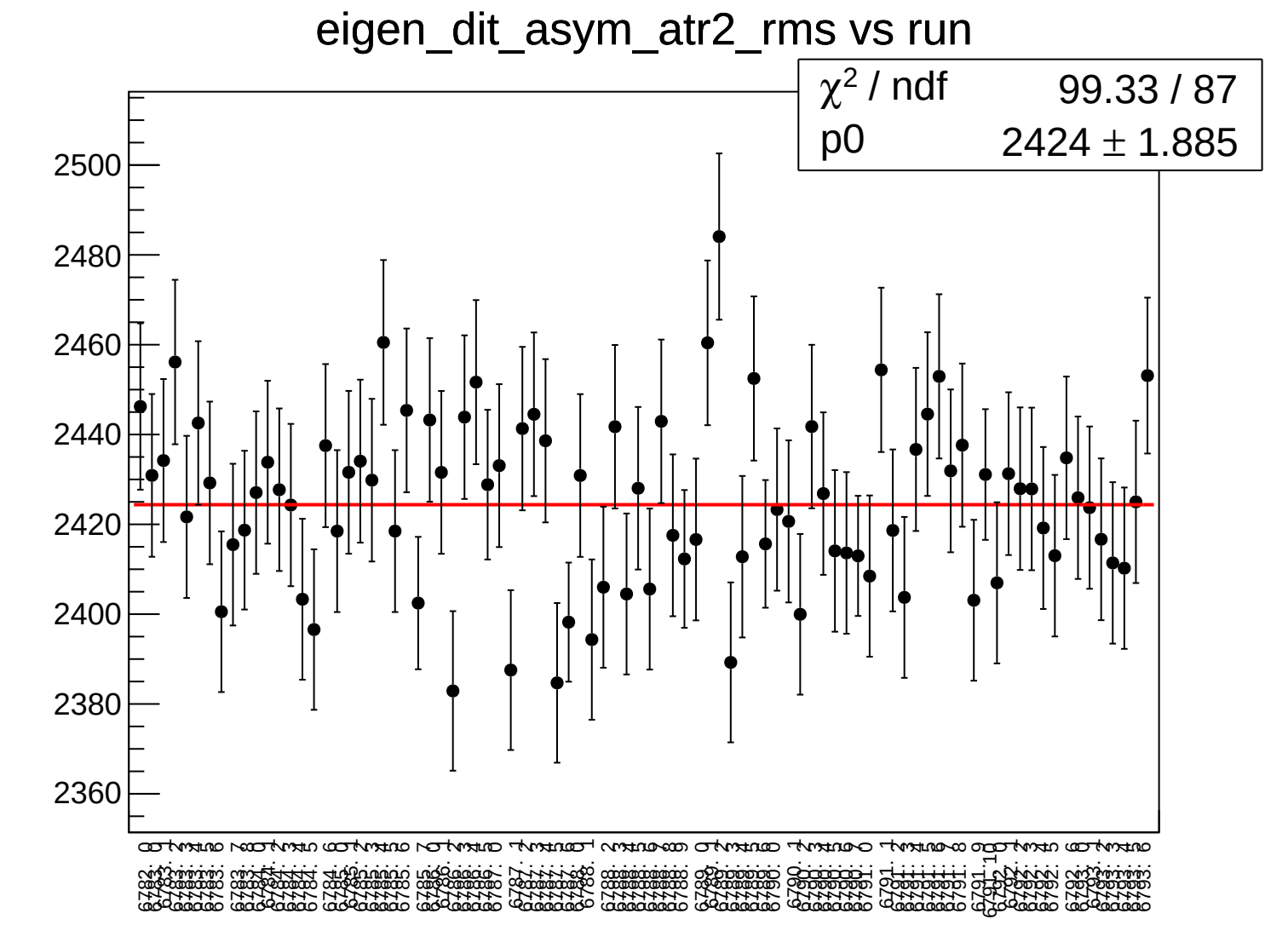

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 79.89 / 87
p0 −2354 ± 7745
200
100
0
−100
−200
pull
Entries 88
Mean 104.1
Std Dev 0
2
1
0
−1
−2

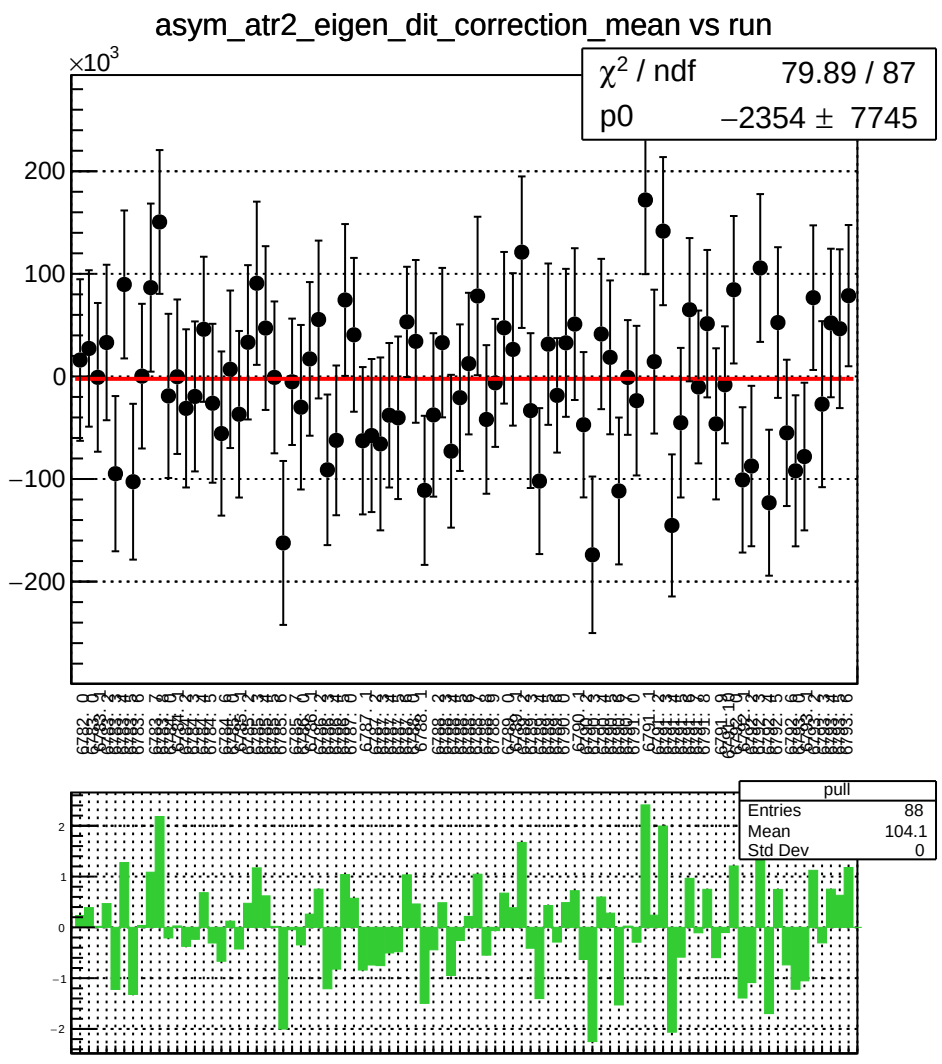

pull1D
Entries 88
Mean −0.006345
Std Dev 0.9528
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

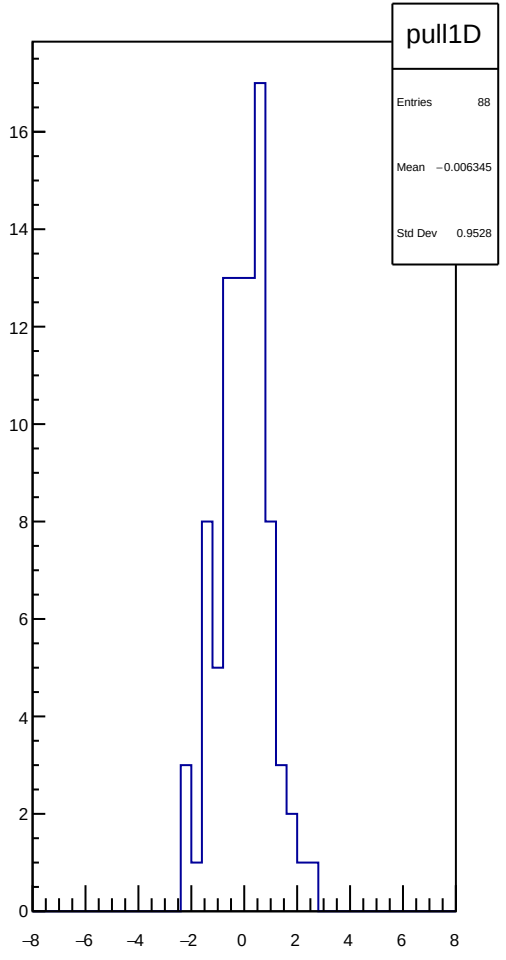

asym_atr2_dit_correction_rms vs run
χ² / ndf 3119 / 87
p0 7038 ± 5.477
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

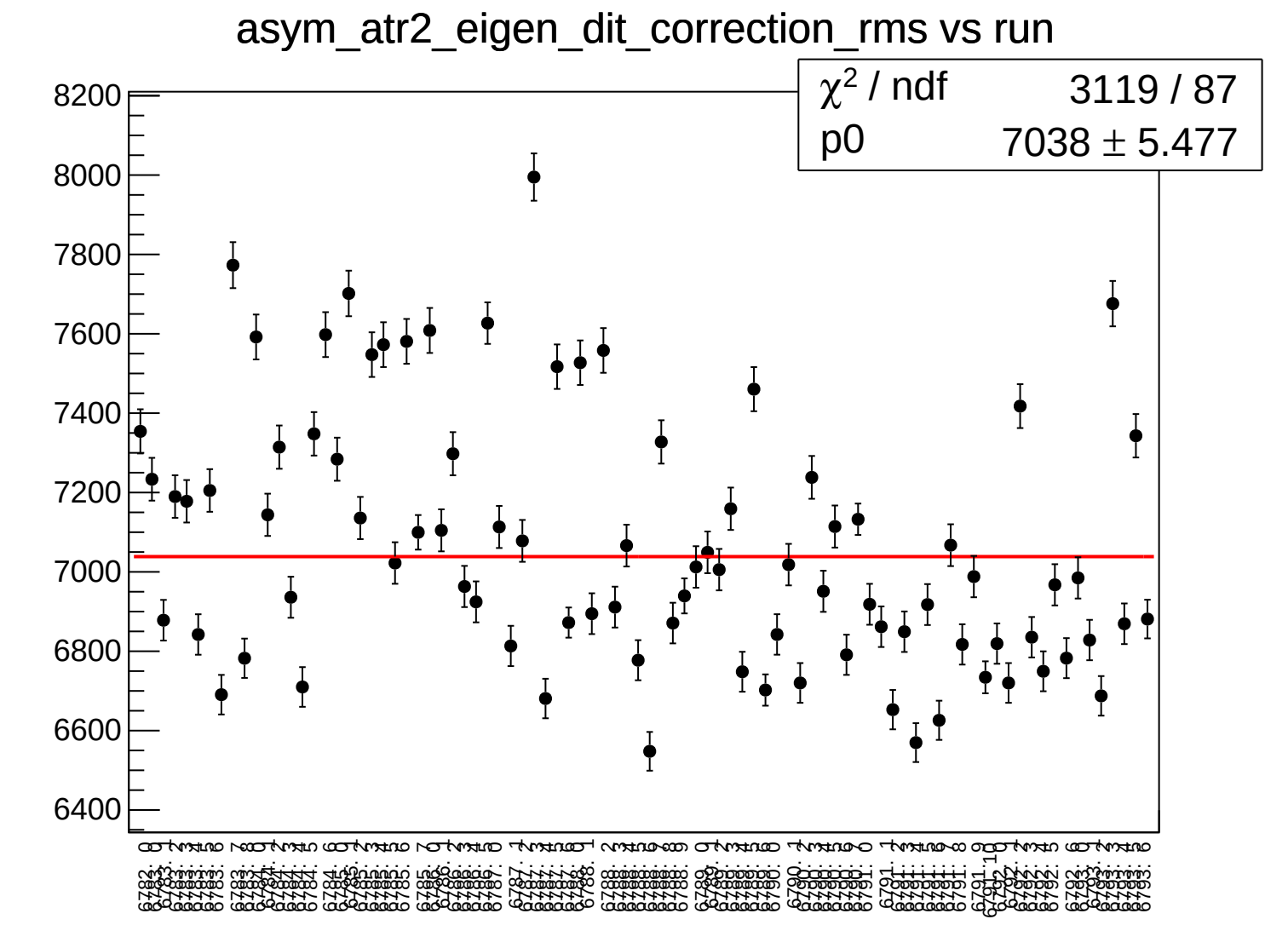

eigen_dit_asym_atr2_mean vs run
χ² / ndf 90.18 / 87
p0 −2029 ± 2665
×10³
pull
Entries 88
Mean 471.2
Std Dev 0

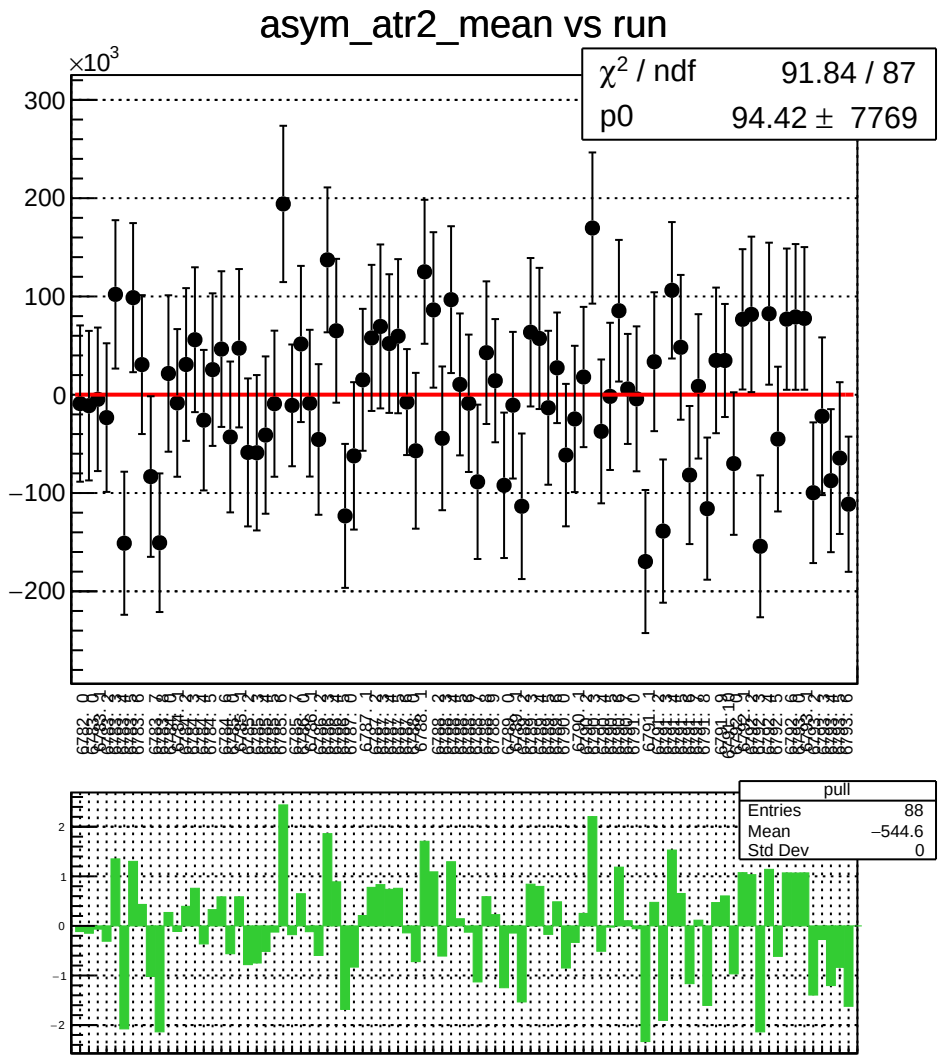

pull1D
Entries 88
Mean −0.01408
Std Dev 1.012

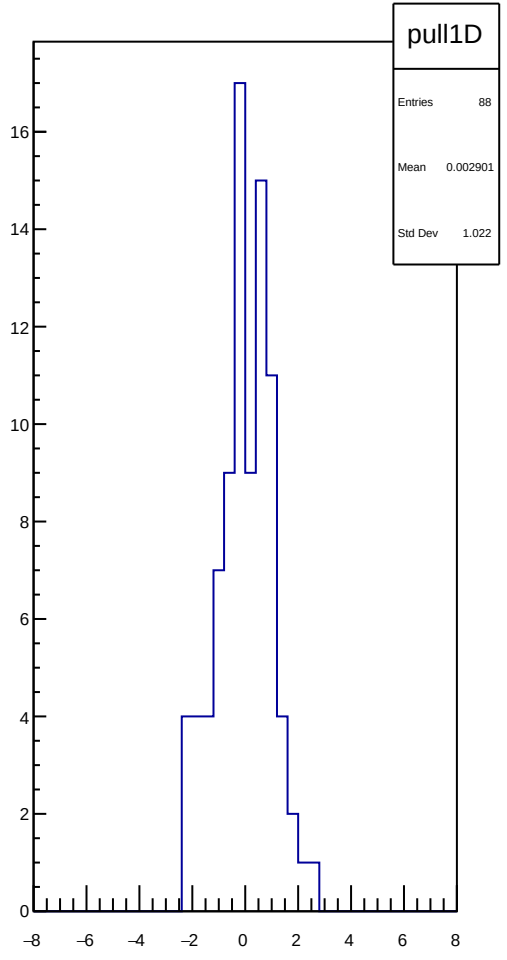

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 99.33 / 87
p0 2424 ± 1.885
2500
2480
2460
2440
2420
2400
2380
2360

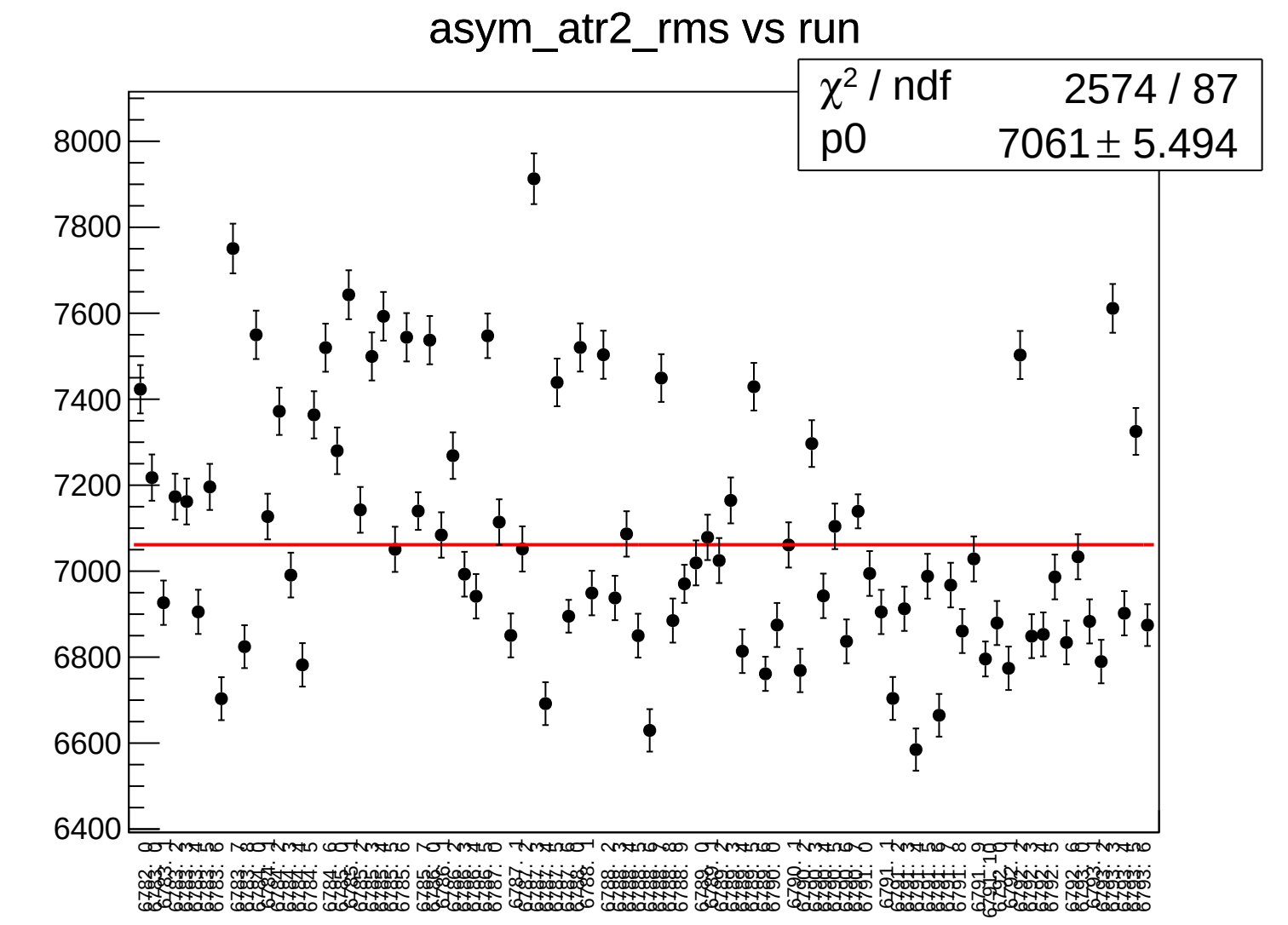

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.89 / 87
p0 −2354 ± 7745
200
100
0
−100
−200
pull
Entries 88
Mean 104.1
Std Dev 0
2
1
0
−1
−2

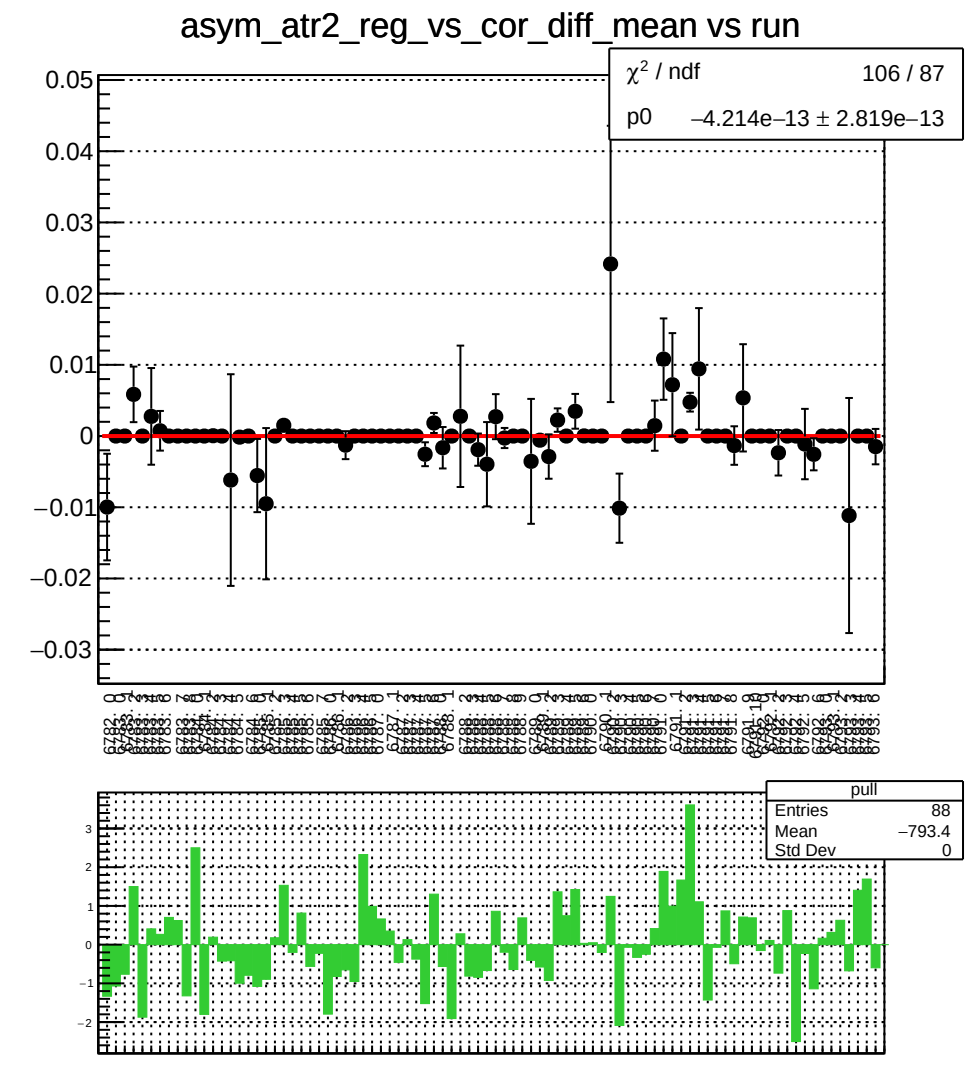

pull1D
Entries 88
Mean −0.006345
Std Dev 0.9528
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

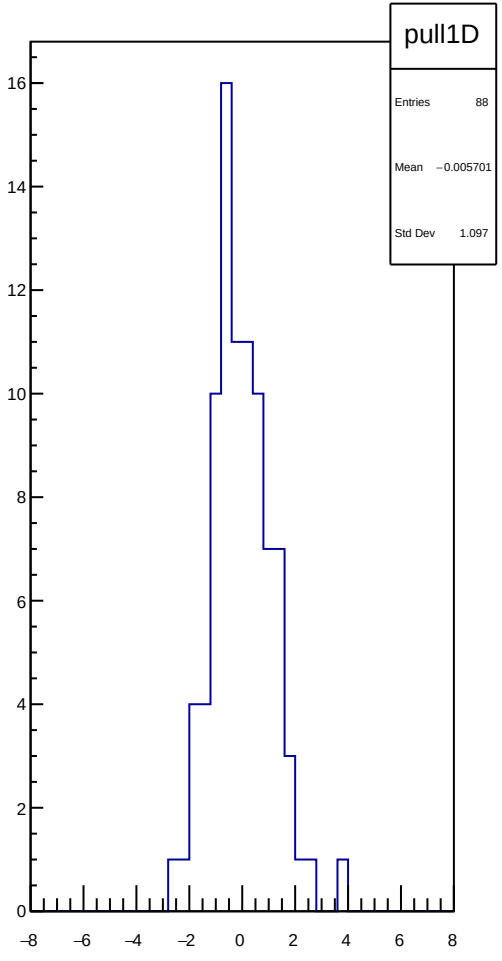

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3119 / 87
p0 7038 ± 5.477
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

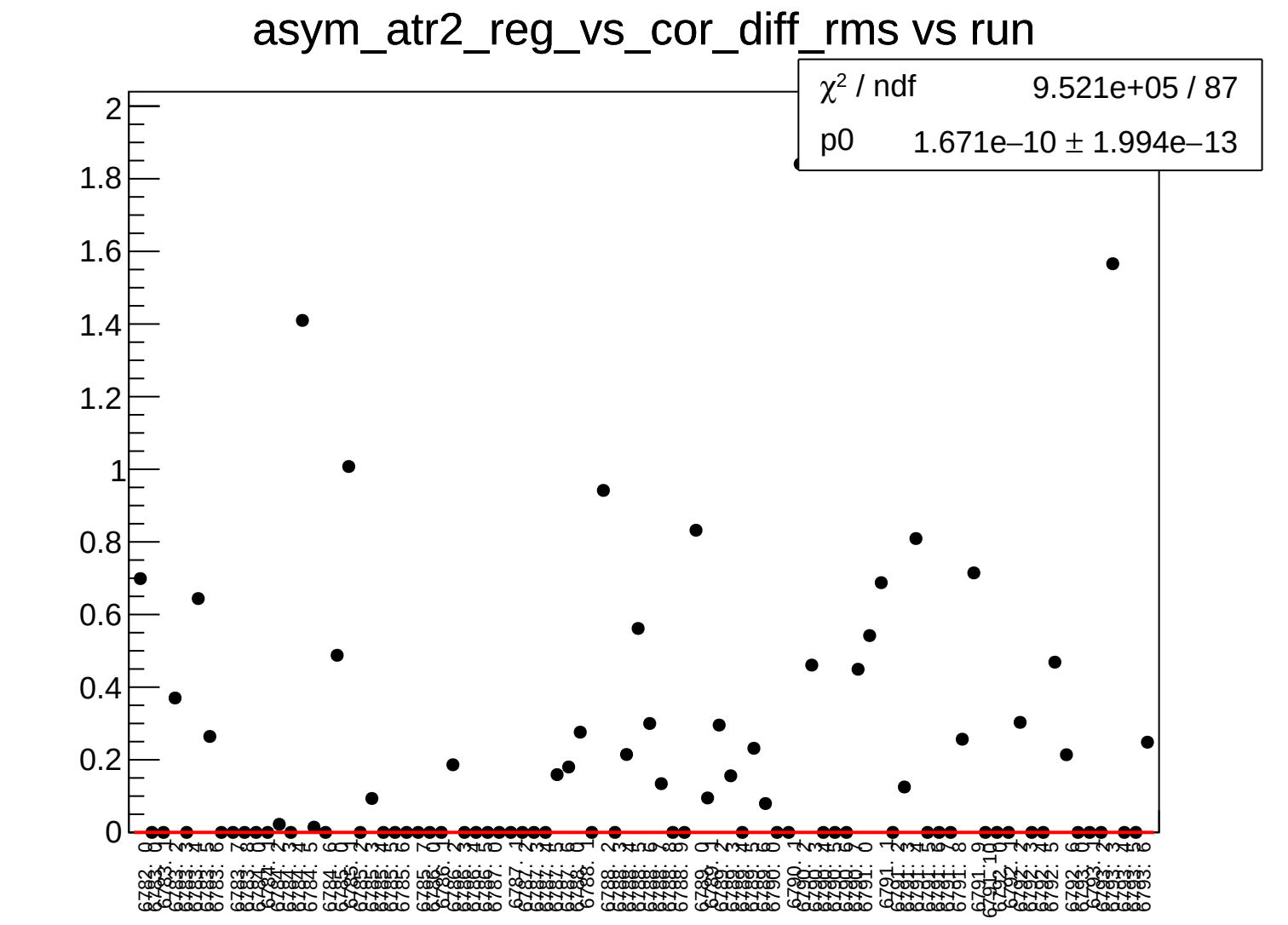

asym_atr2_mean vs run
×10^3
χ² / ndf 91.84 / 87
p0 94.42 ± 7769
300
200
100
0
−100
−200
pull
Entries 88
Mean −544.6
Std Dev 0
2
1
0
−1
−2

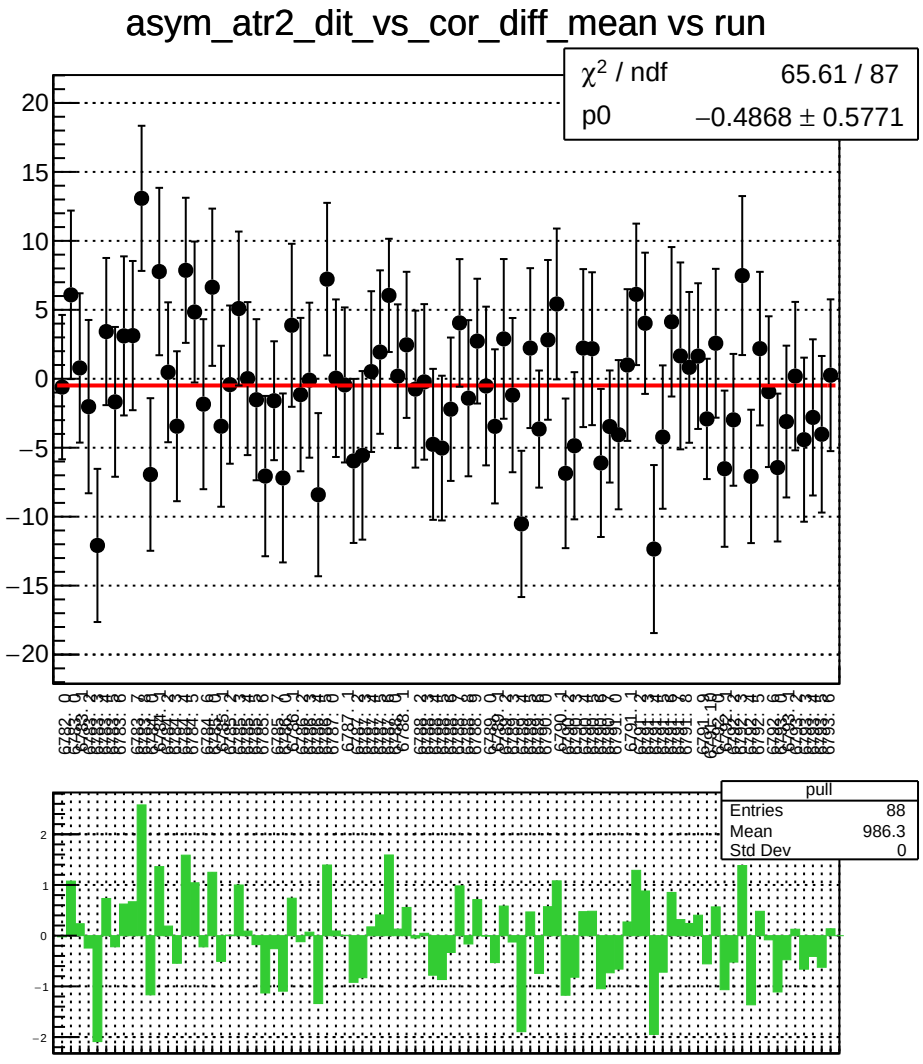

pull1D
Entries 88
Mean 0.002901
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

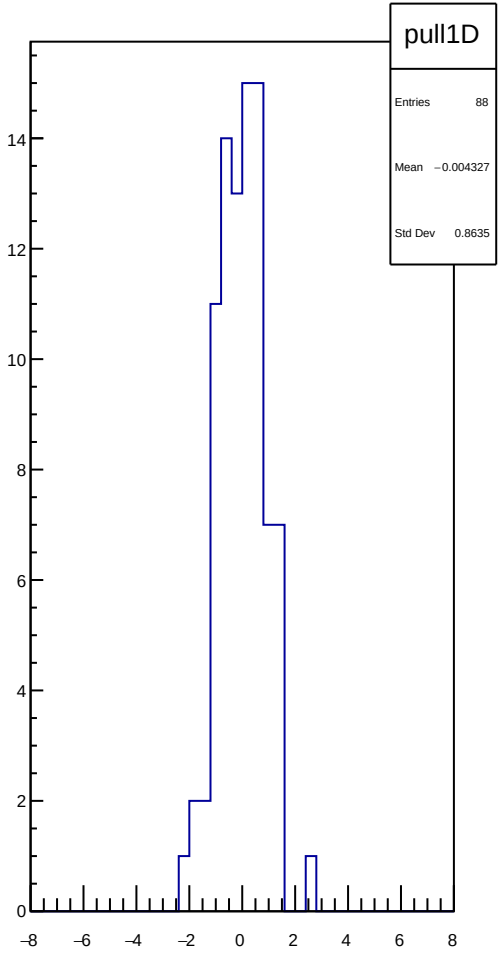

asym_atr2_rms vs run
χ² / ndf 2574 / 87
p0 7061 ± 5.494
8000
7800
7600
7400
7200
7000
6800
6600
6400

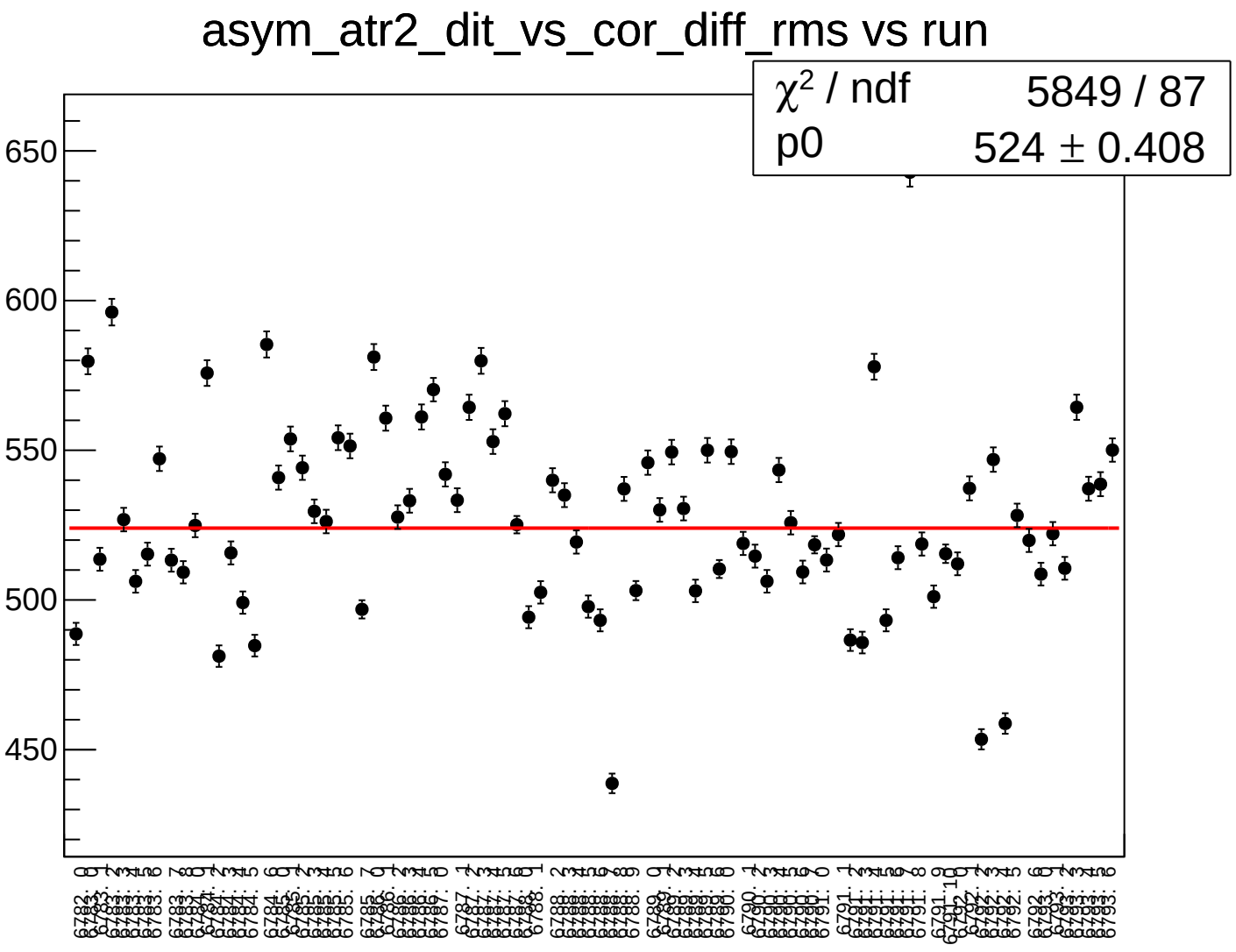

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −4.214e−13 ± 2.819e−13
pull
Entries 88
Mean −793.4
Std Dev 0

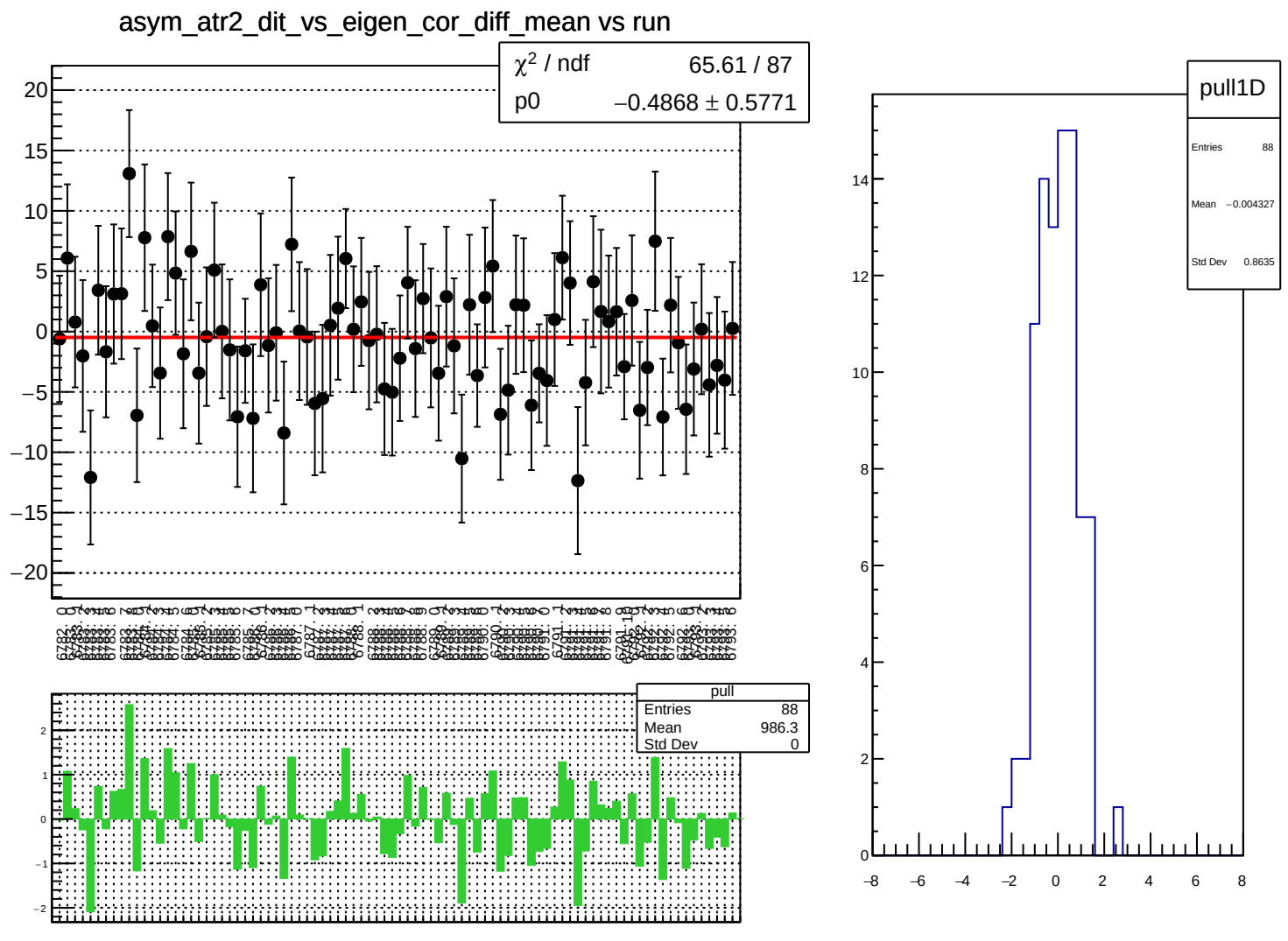

pull1D
Entries 88
Mean −0.005701
Std Dev 1.097

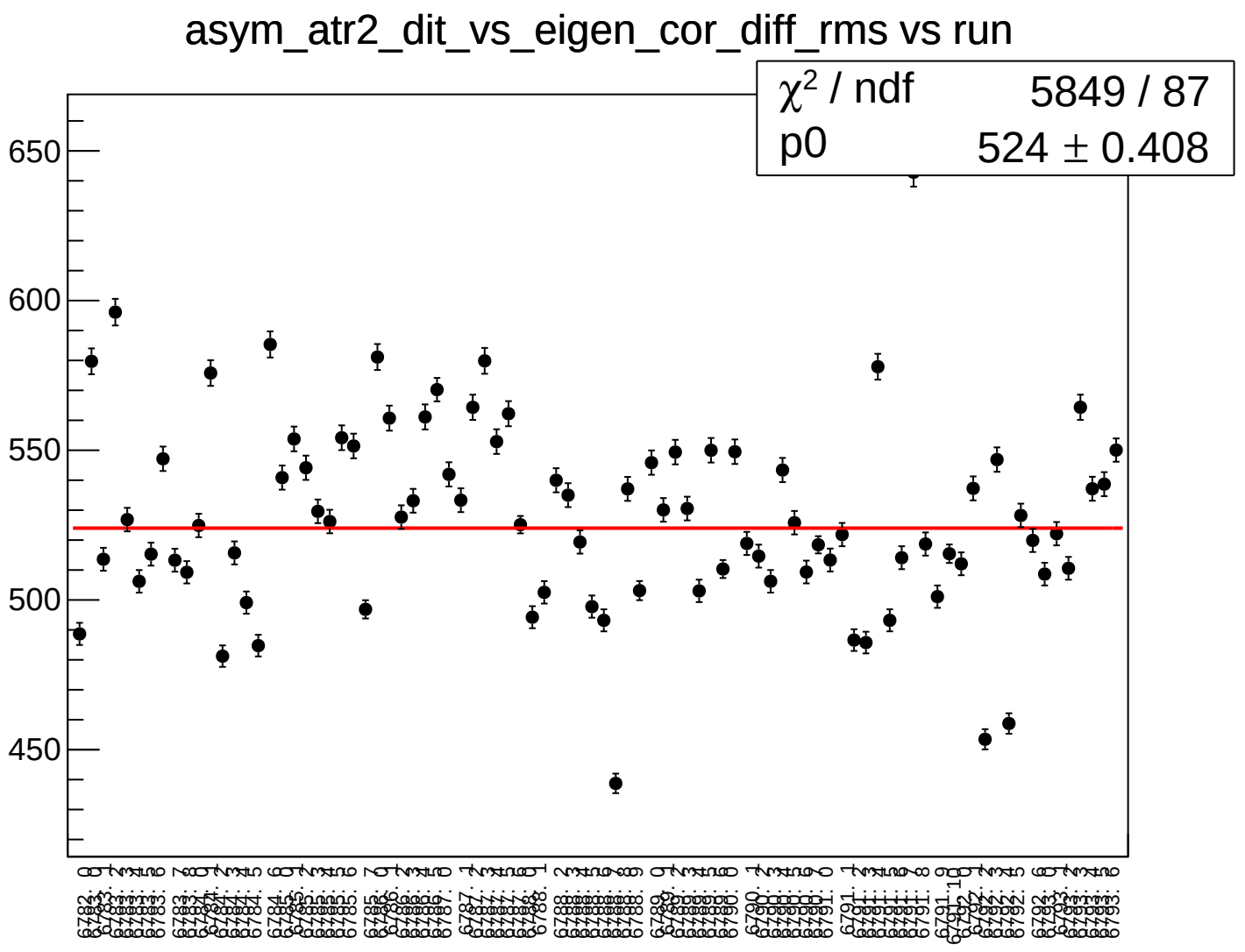

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.521e+05 / 87
p0 1.671e−10 ± 1.994e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

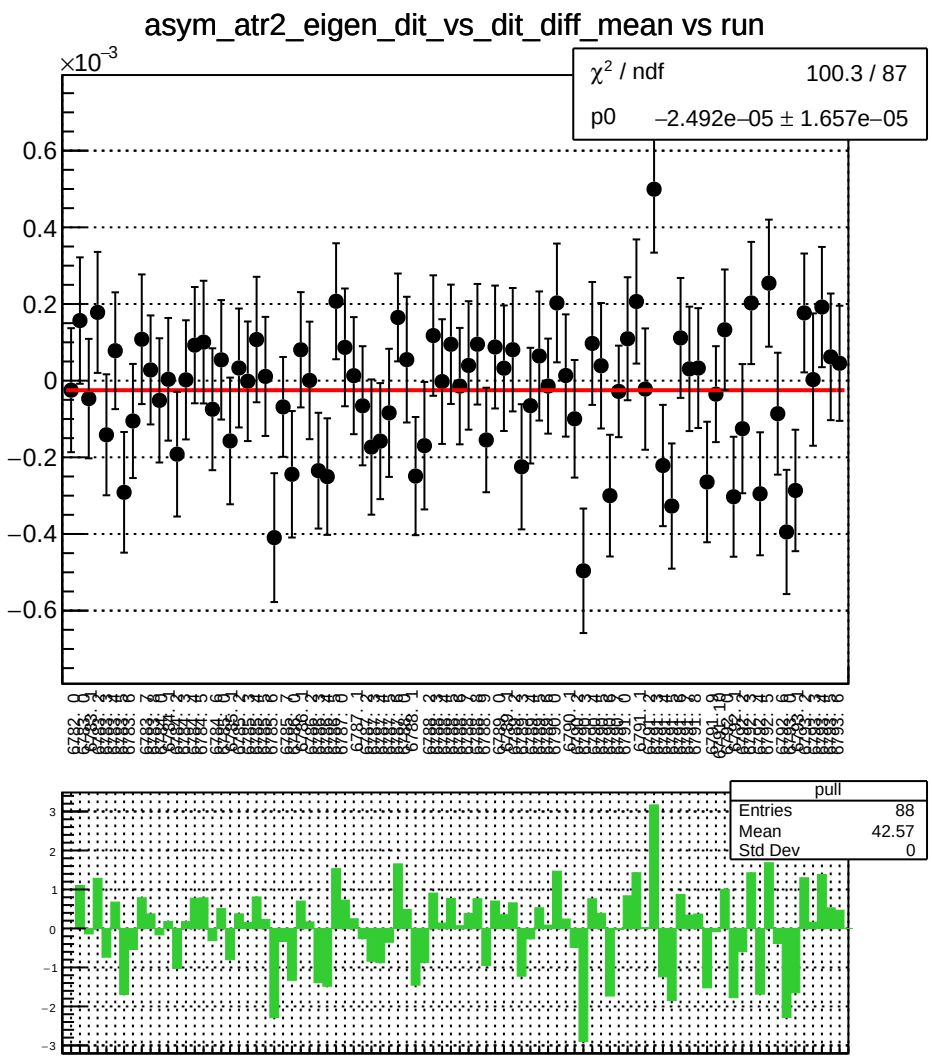

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 65.61 / 87
p0 −0.4868 ± 0.5771
pull
Entries 88
Mean 986.3
Std Dev 0

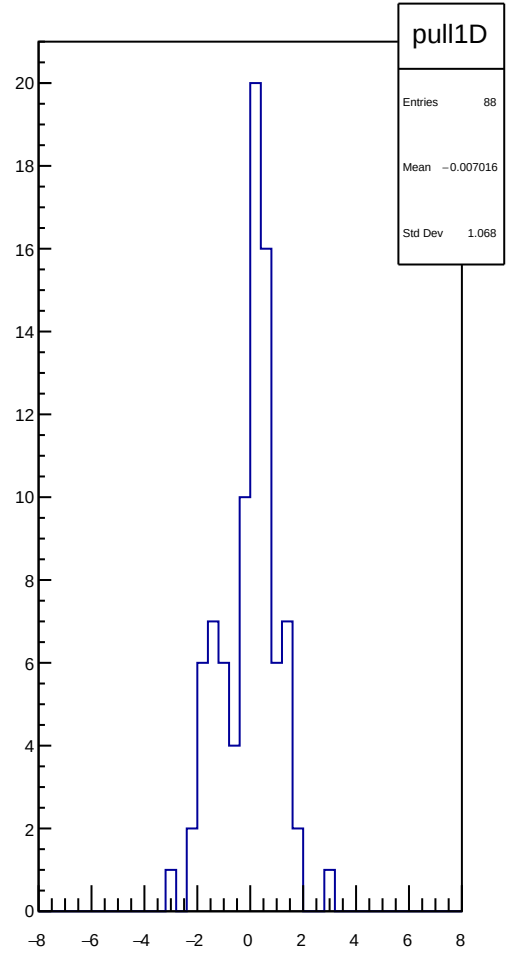

pull1D
Entries 88
Mean −0.004327
Std Dev 0.8635

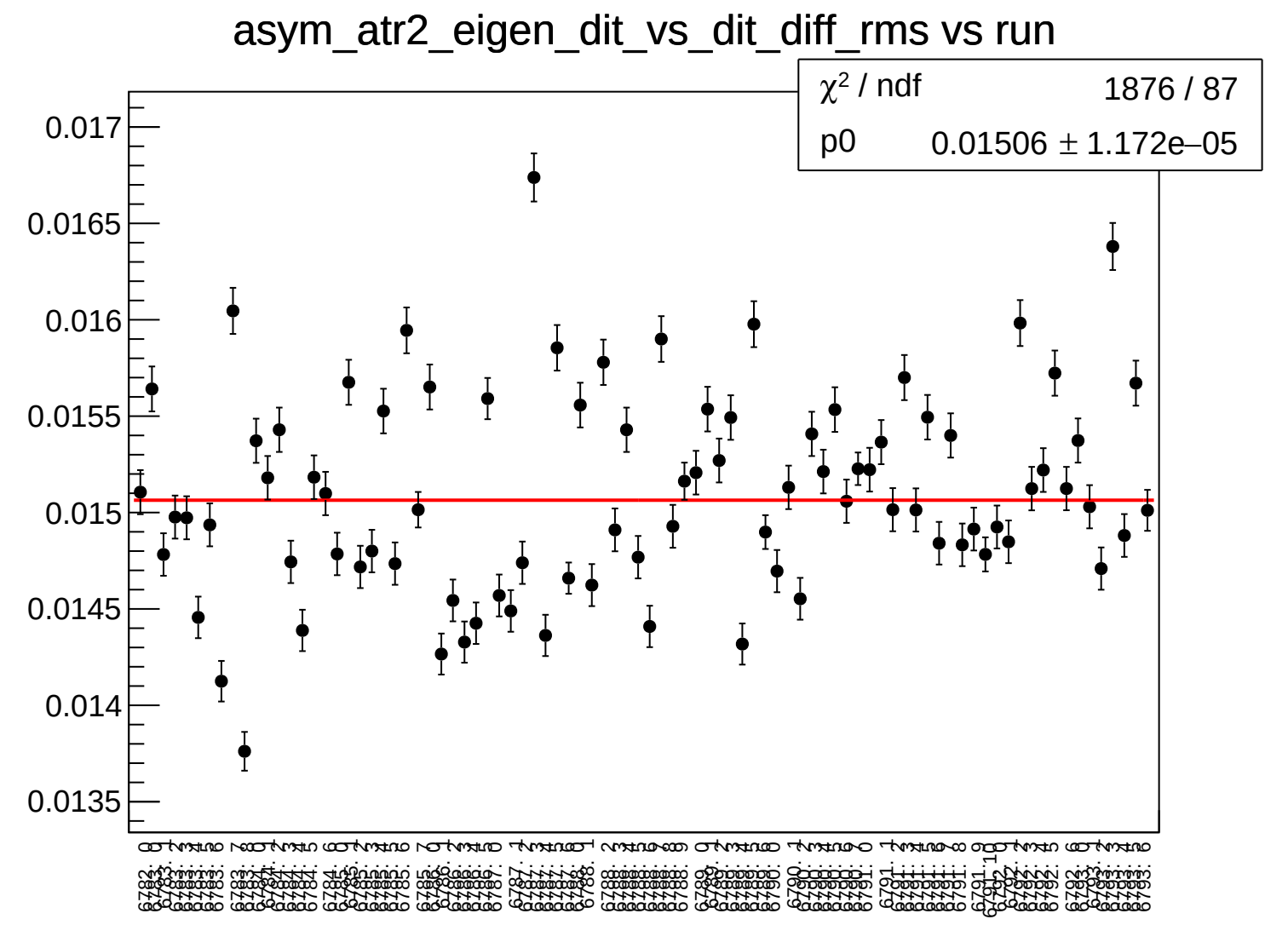

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 5849 / 87
p0 524 ± 0.408
650
600
550
500
450

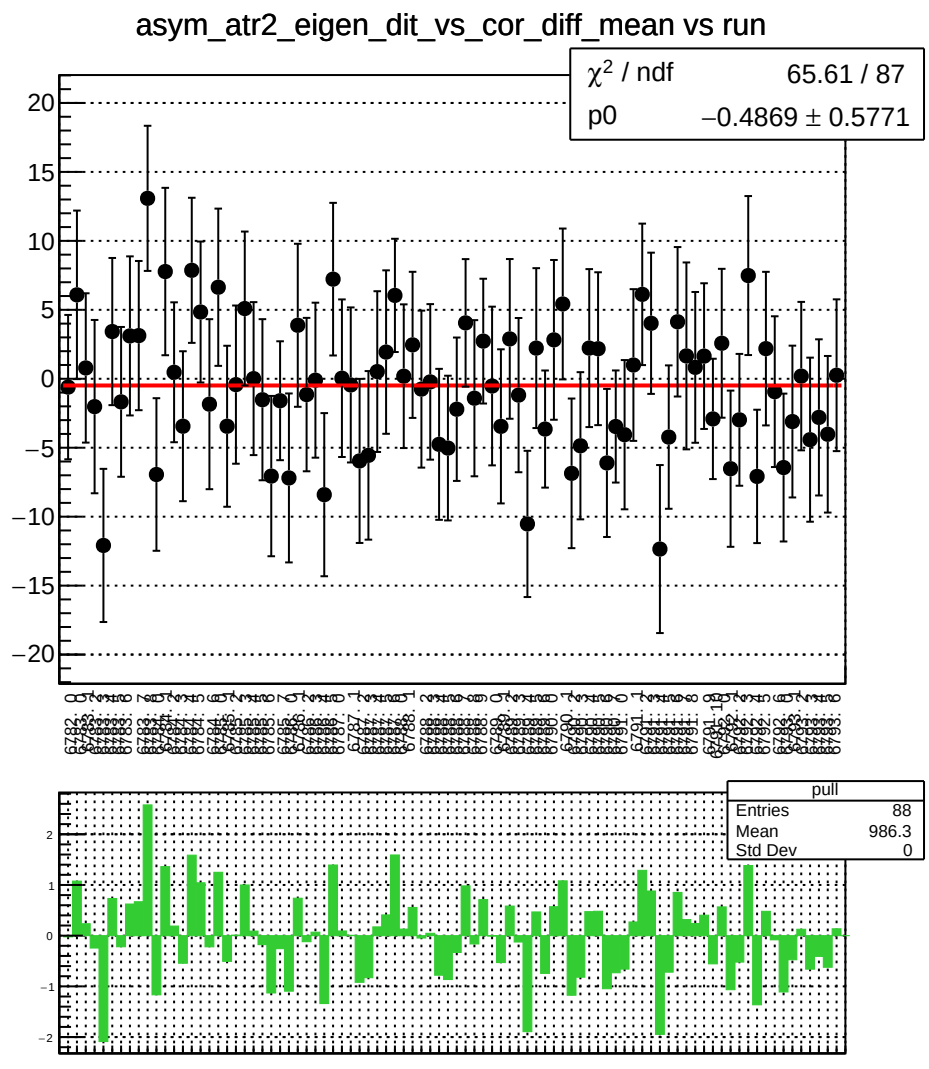

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.61 / 87
p0 −0.4868 ± 0.5771
pull
Entries 88
Mean 986.3
Std Dev 0
pull1D
Entries 88
Mean −0.004327
Std Dev 0.8635

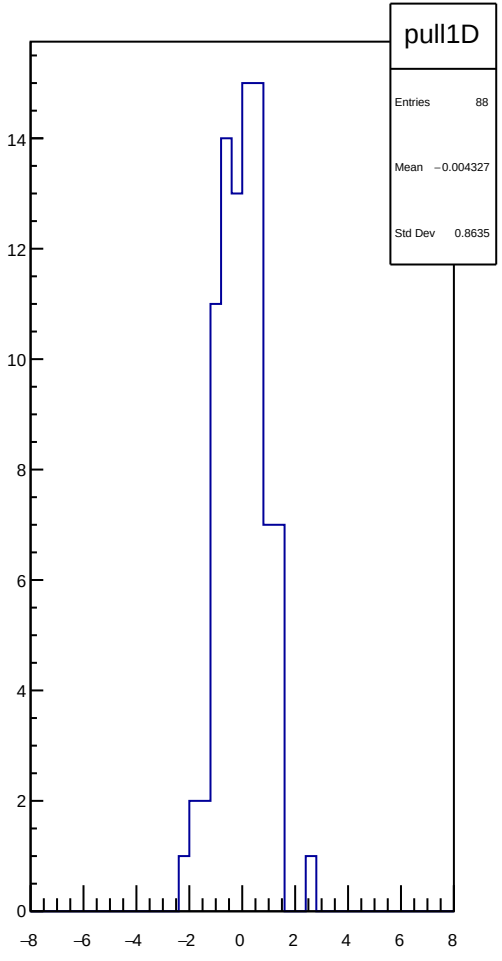

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5849 / 87
p0 524 ± 0.408
650
600
550
500
450

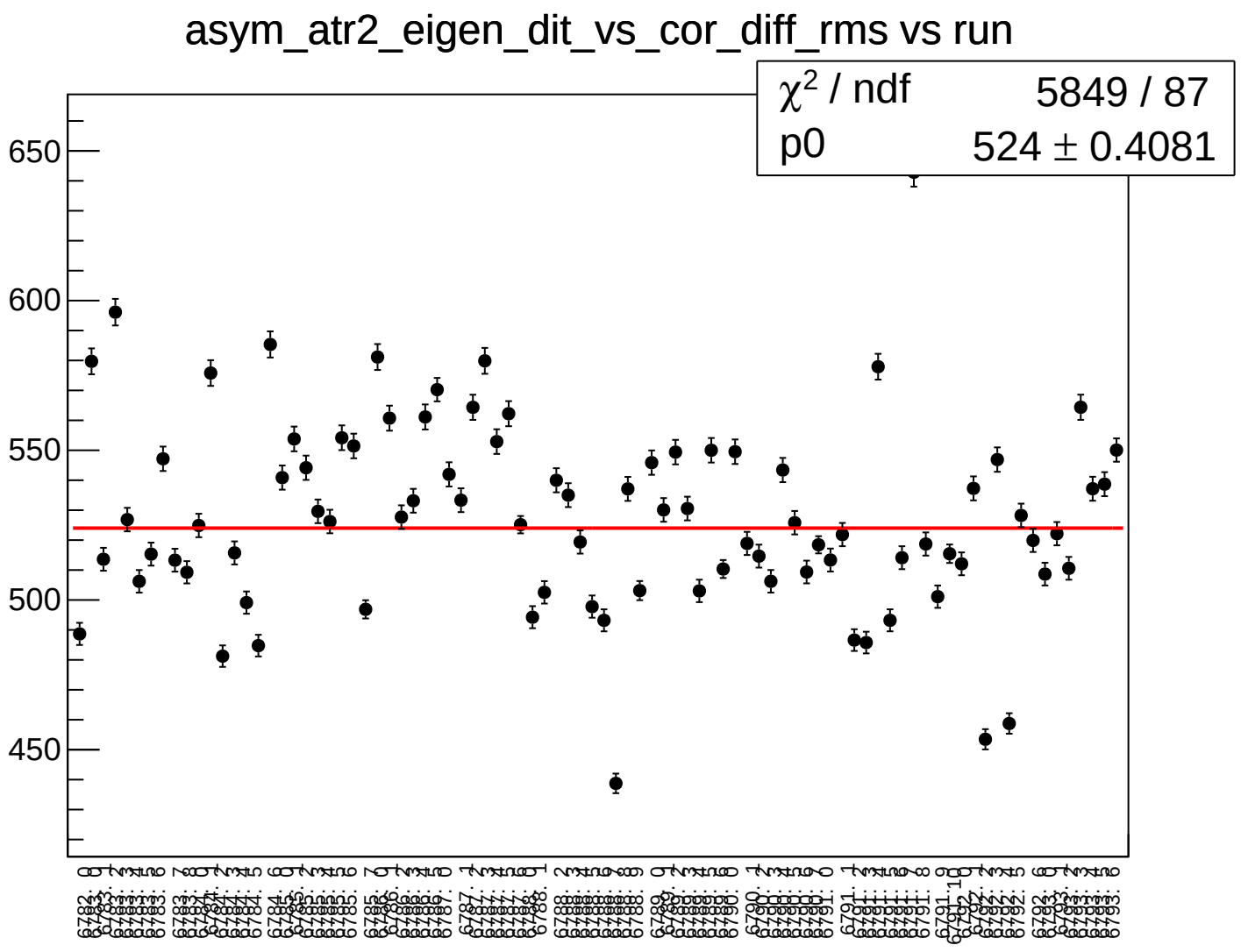

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 87
p0 −2.492e−05 ± 1.657e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean 42.57
Std Dev 0
3
2
1
0
−1
−2
−3

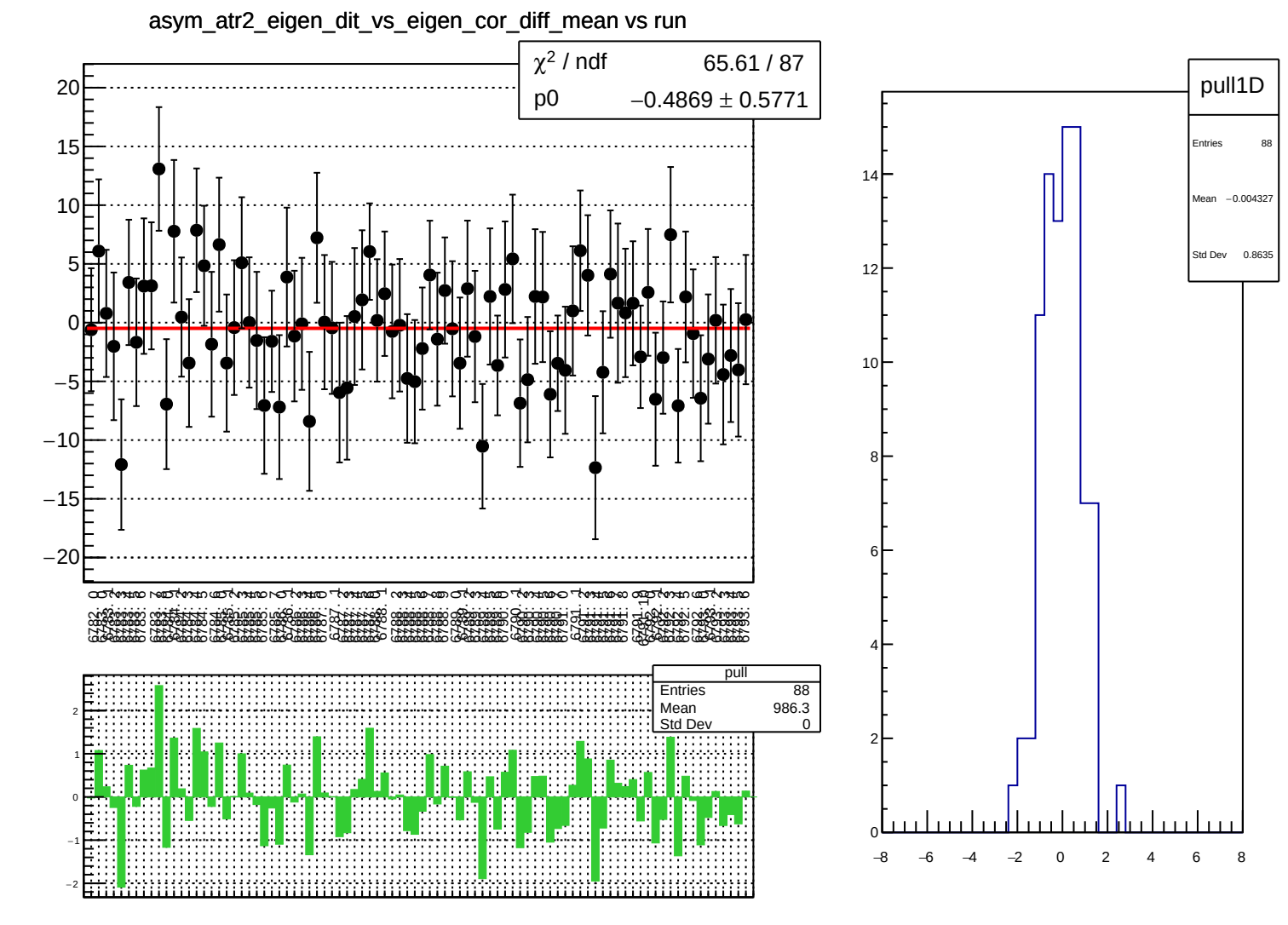

pull1D
Entries 88
Mean −0.007016
Std Dev 1.068
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

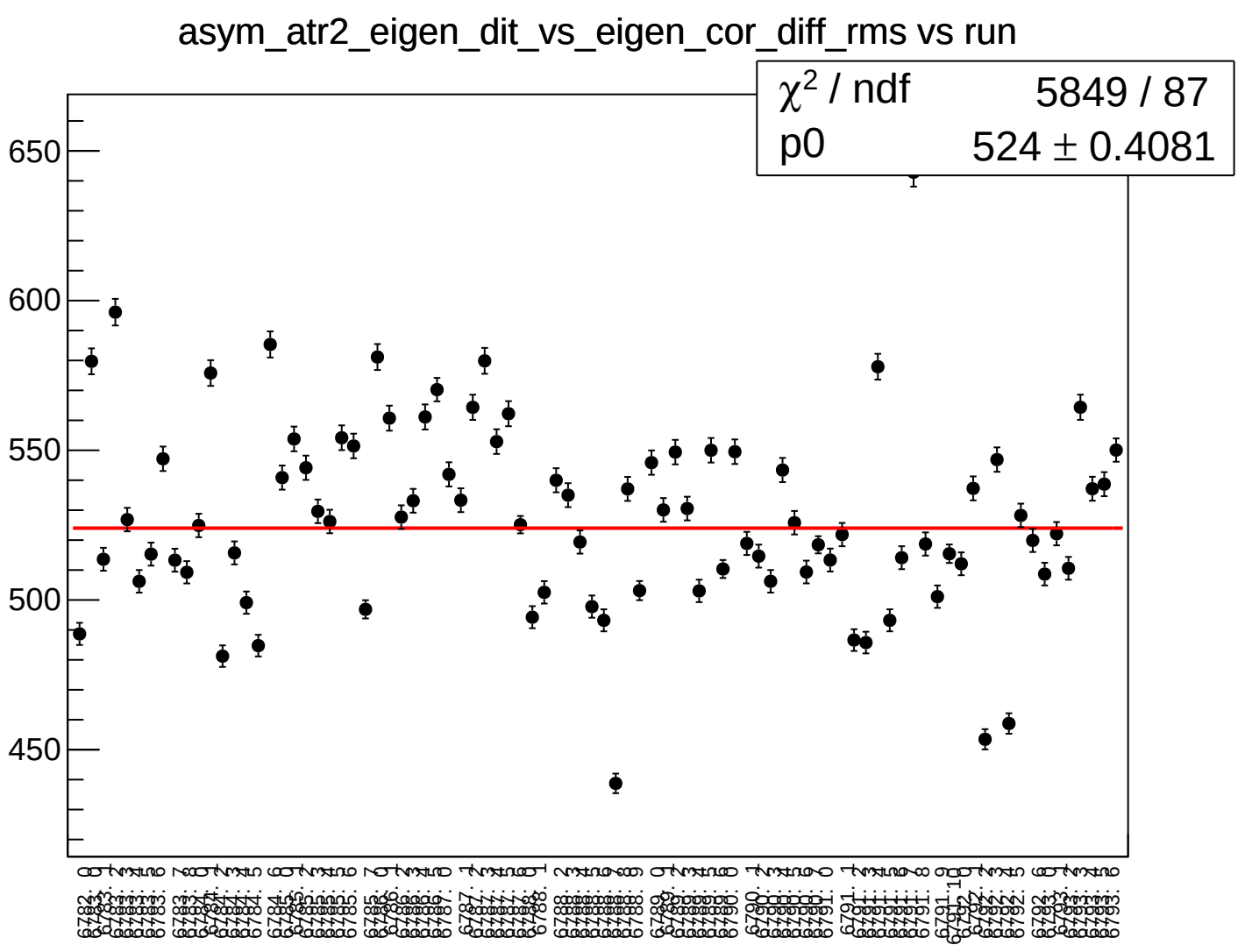

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1876 / 87
p0 0.01506 ± 1.172e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

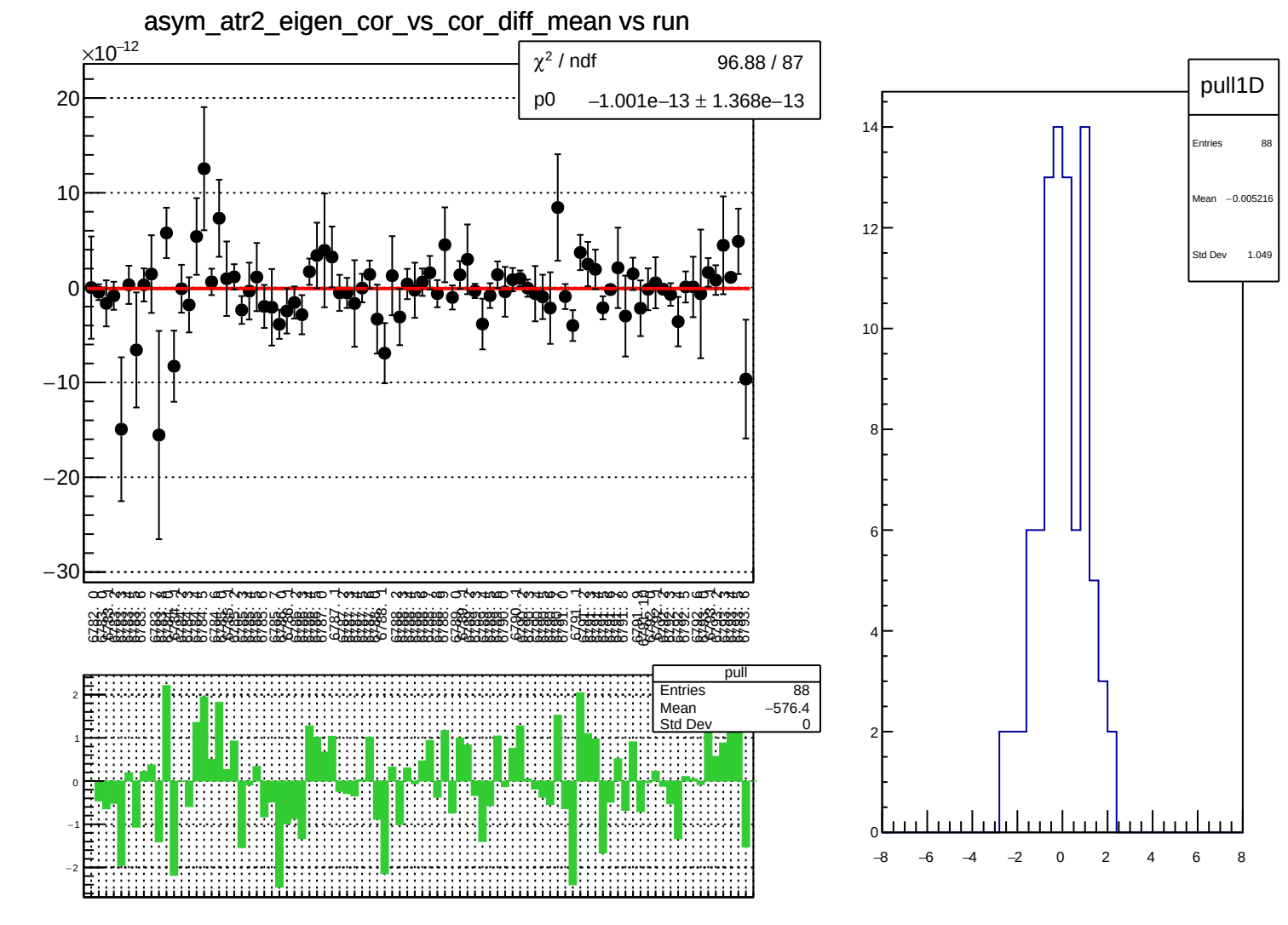

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.61 / 87
p0 −0.4869 ± 0.5771
pull
Entries 88
Mean 986.3
Std Dev 0

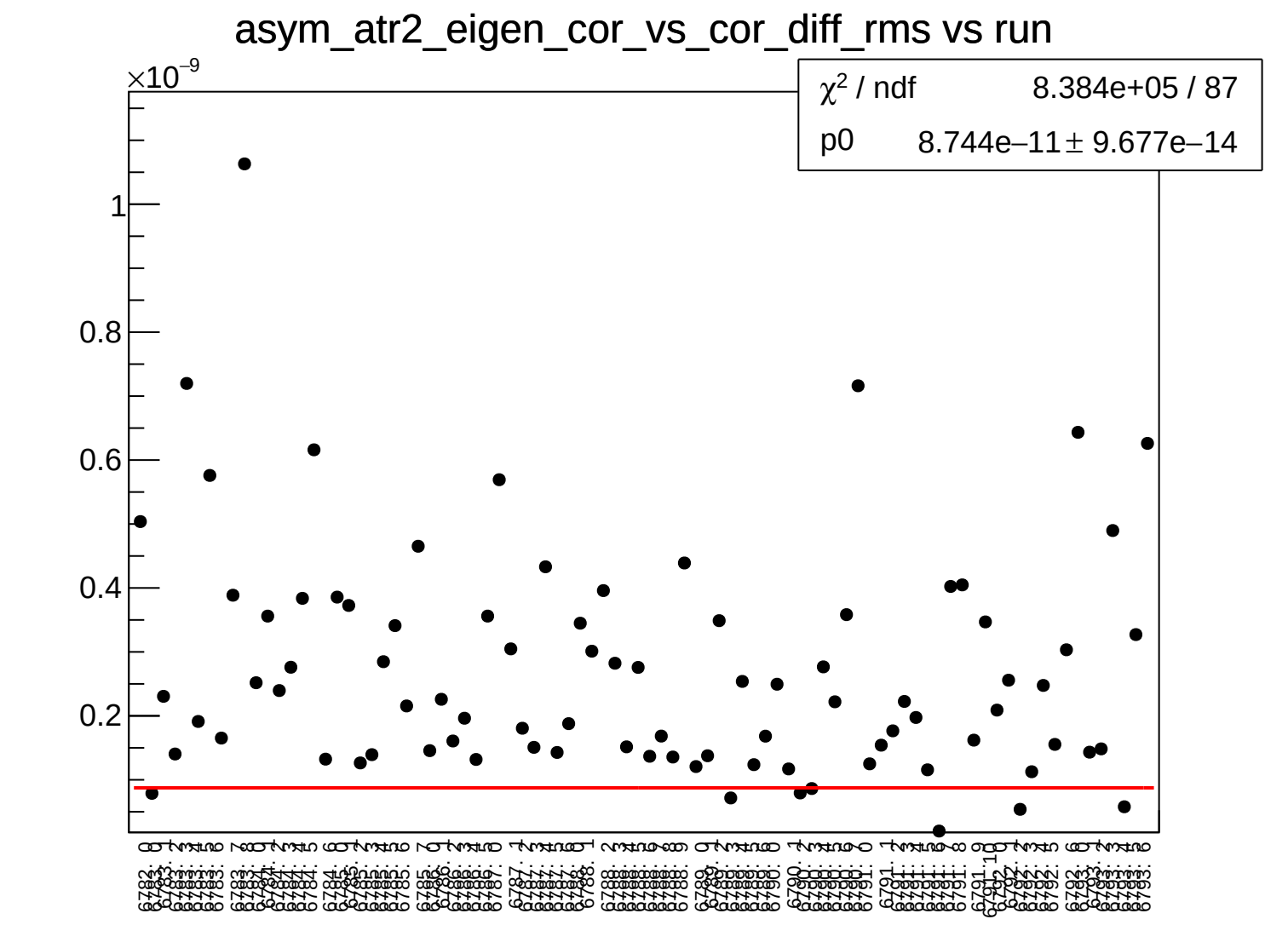

pull1D
Entries 88
Mean −0.004327
Std Dev 0.8635

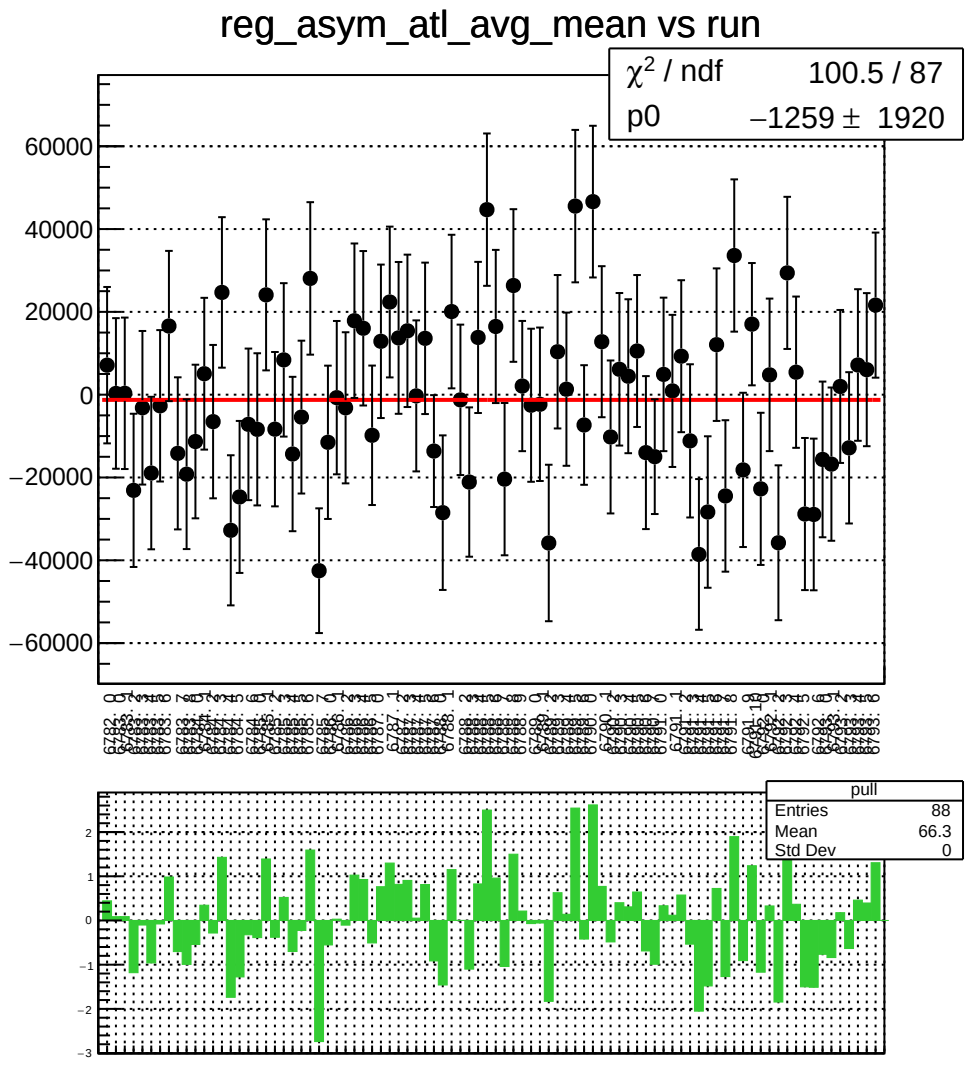

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5849 / 87
p0 524 ± 0.4081
650
600
550
500
450

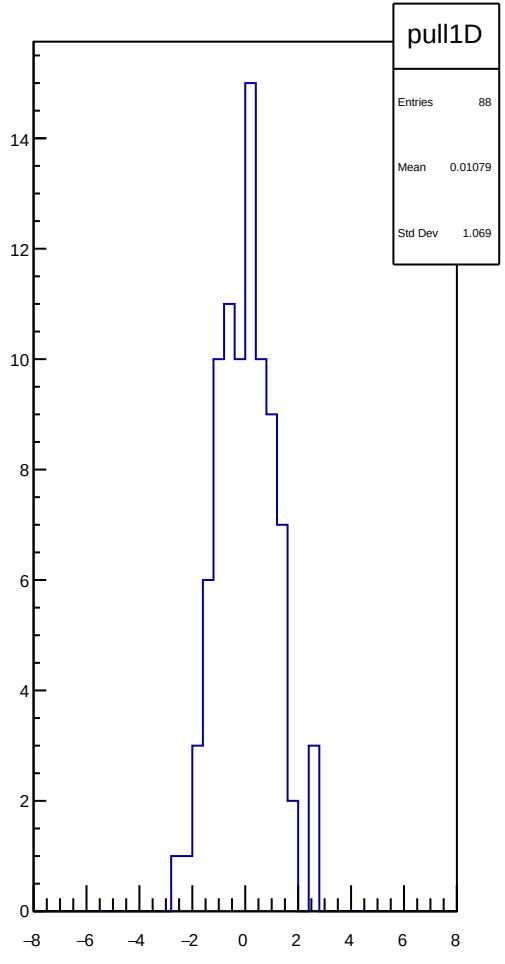

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.61 / 87
p0 −0.4869 ± 0.5771
pull
Entries 88
Mean 986.3
Std Dev 0
pull1D
Entries 88
Mean −0.004327
Std Dev 0.8635

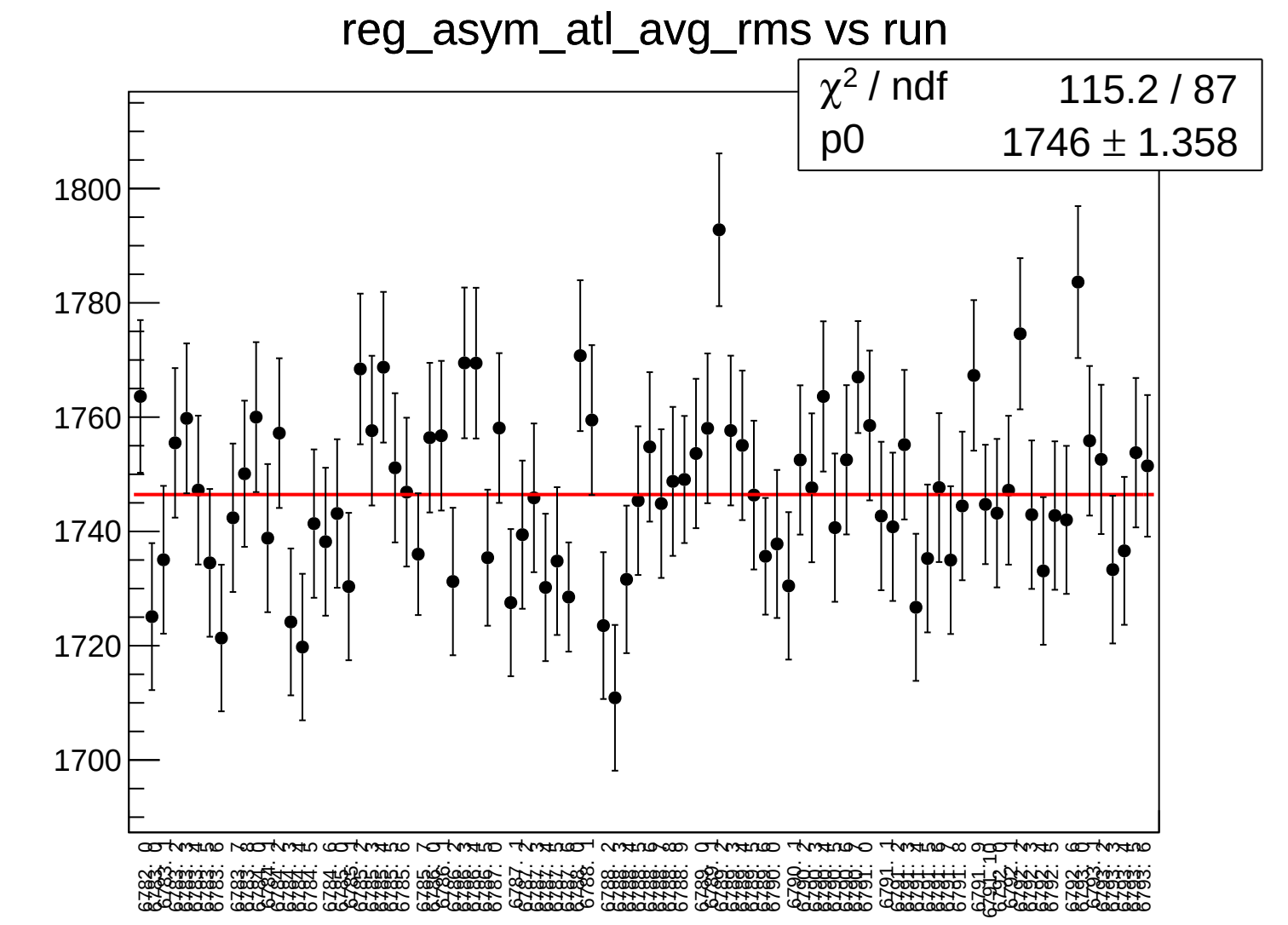

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5849 / 87
p0 524 ± 0.4081
650
600
550
500
450

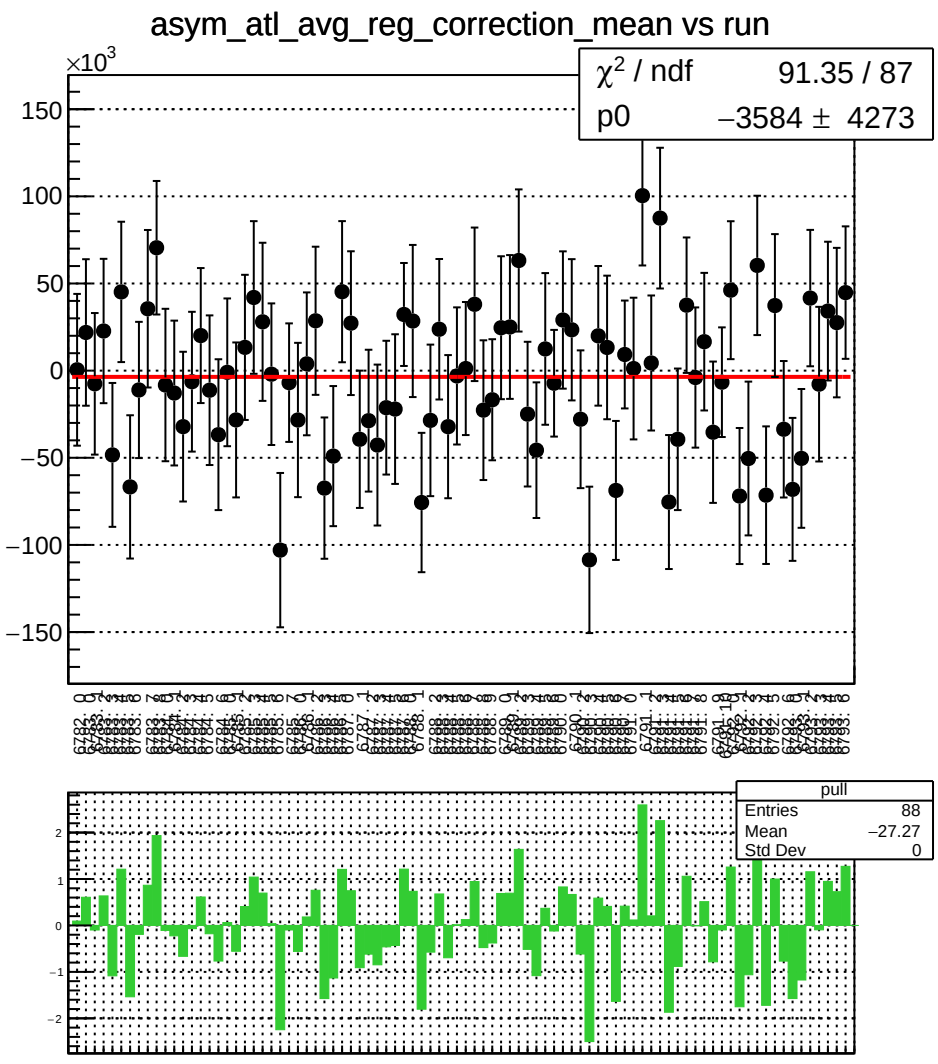

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.88 / 87
p0 −1.001e−13 ± 1.368e−13
20
10
0
−10
−20
−30
pull
Entries 88
Mean −576.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005216
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

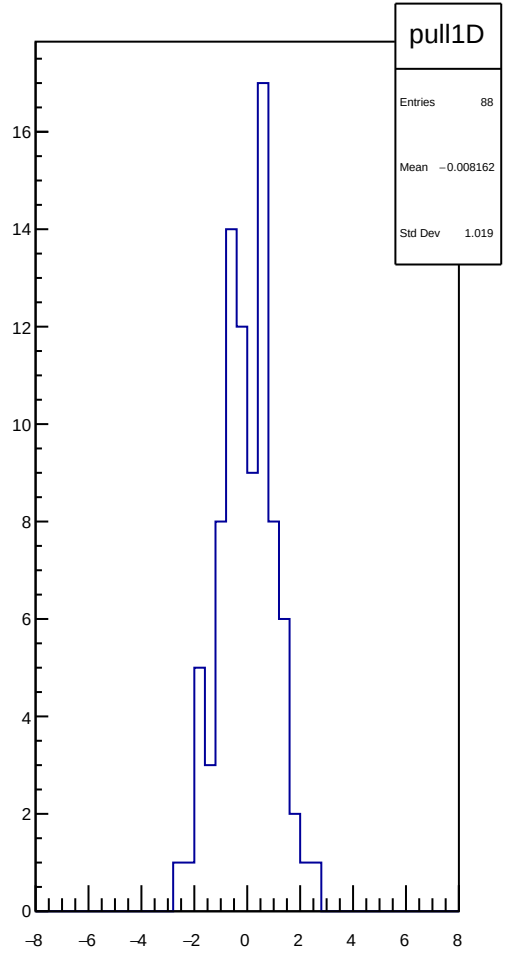

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.384e+05 / 87
p0 8.744e−11 ± 9.677e−14
1
0.8
0.6
0.4
0.2

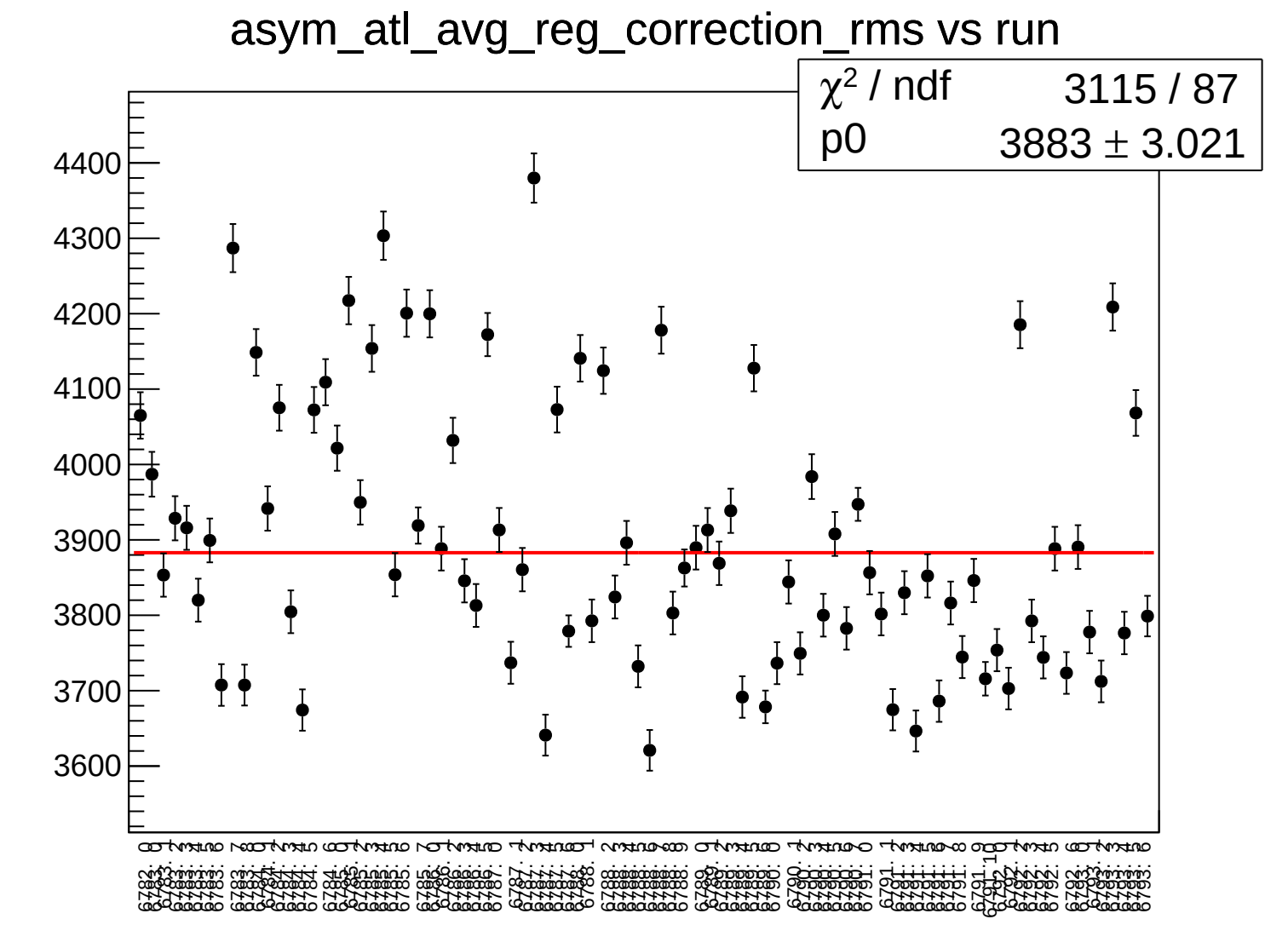

reg_asym_atl_avg_mean vs run
χ² / ndf 100.5 / 87
p0 −1259 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 66.3
Std Dev 0
2
1
0
−1
−2
−3

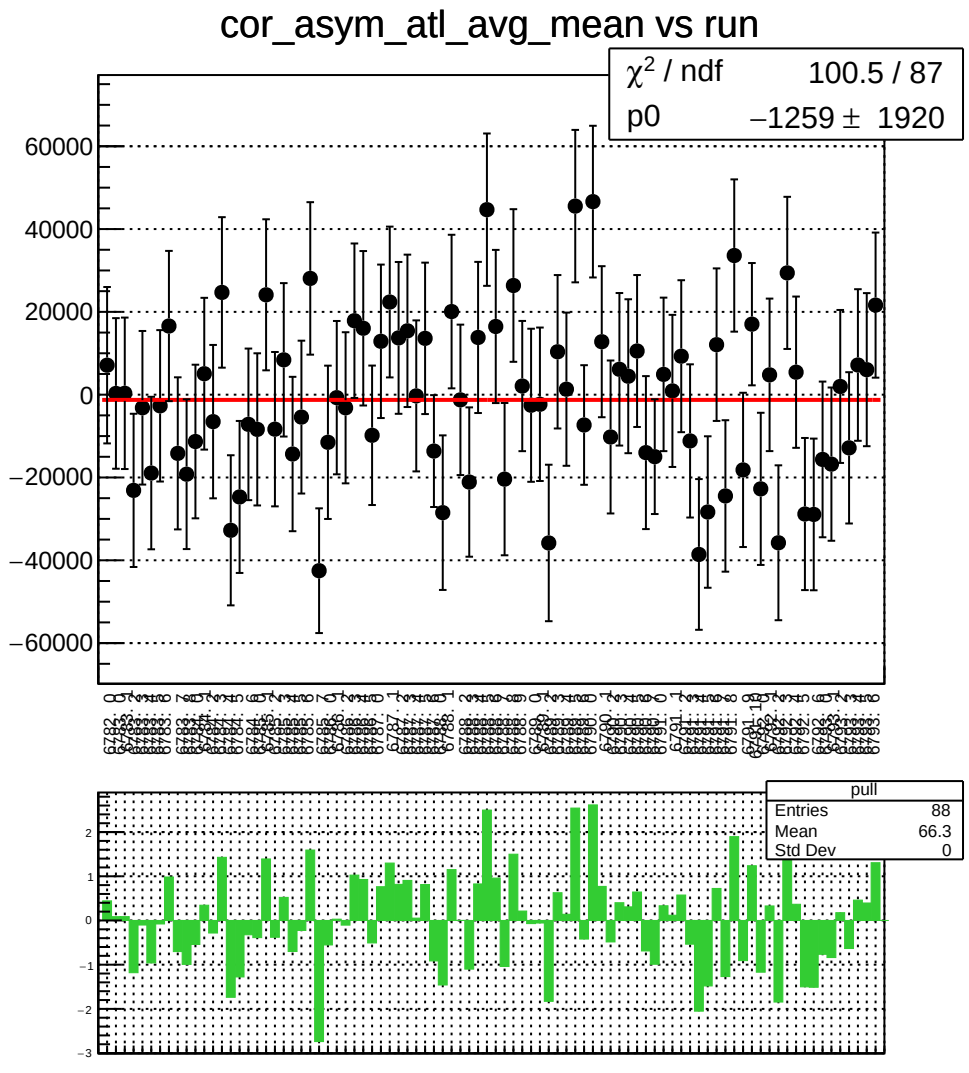

pull1D
Entries 88
Mean 0.01079
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

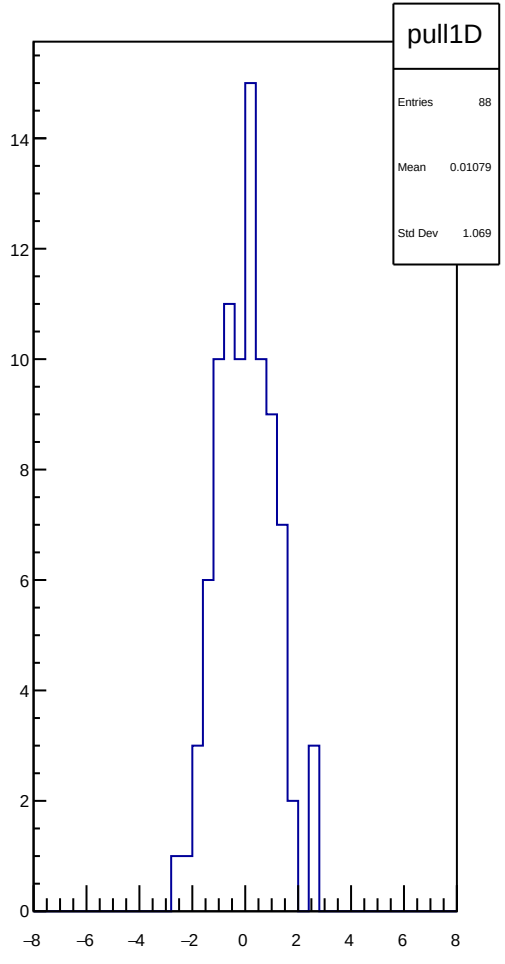

reg_asym_atl_avg_rms vs run
χ^2 / ndf 115.2 / 87
p0 1746 ± 1.358
1800
1780
1760
1740
1720
1700

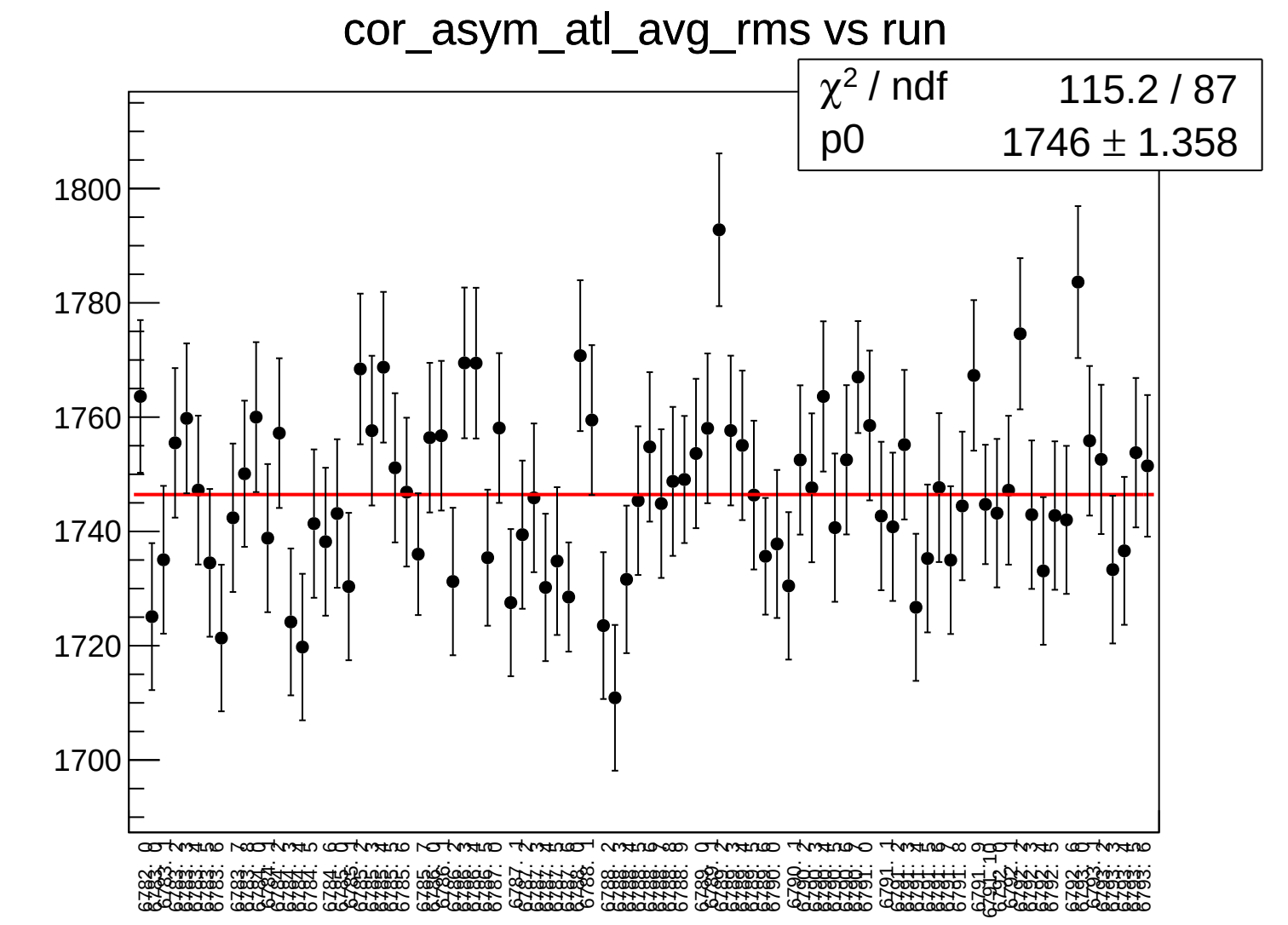

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 91.35 / 87
p0 −3584 ± 4273
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −27.27
Std Dev 0
2
1
0
−1
−2

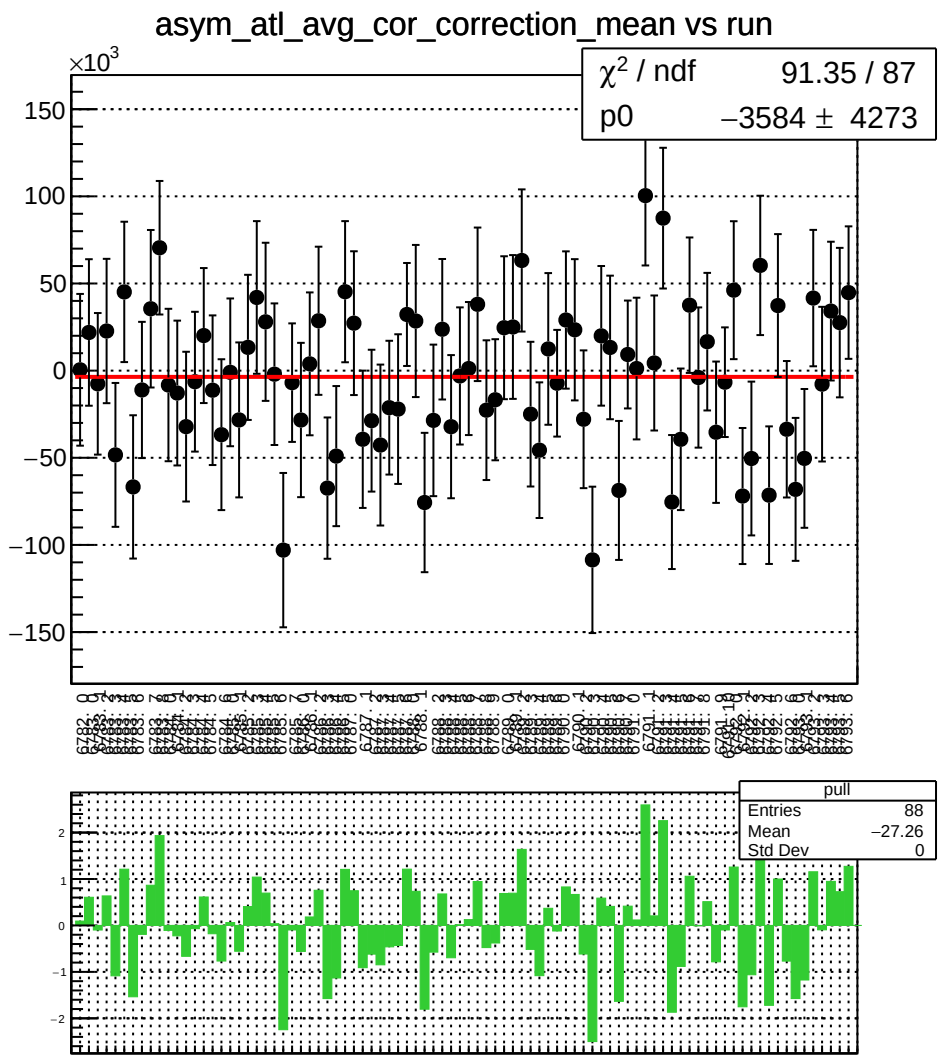

pull1D
Entries 88
Mean −0.008162
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

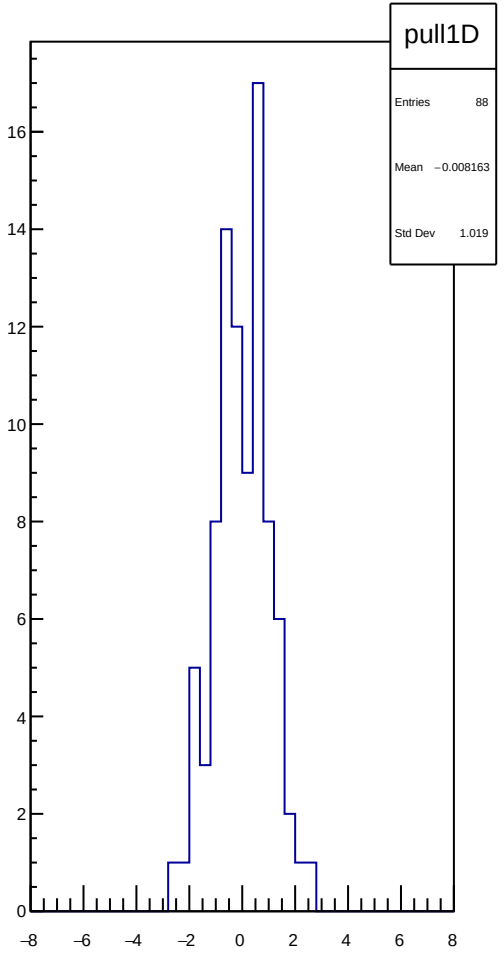

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 3115 / 87
p0 3883 ± 3.021
4400
4300
4200
4100
4000
3900
3800
3700
3600

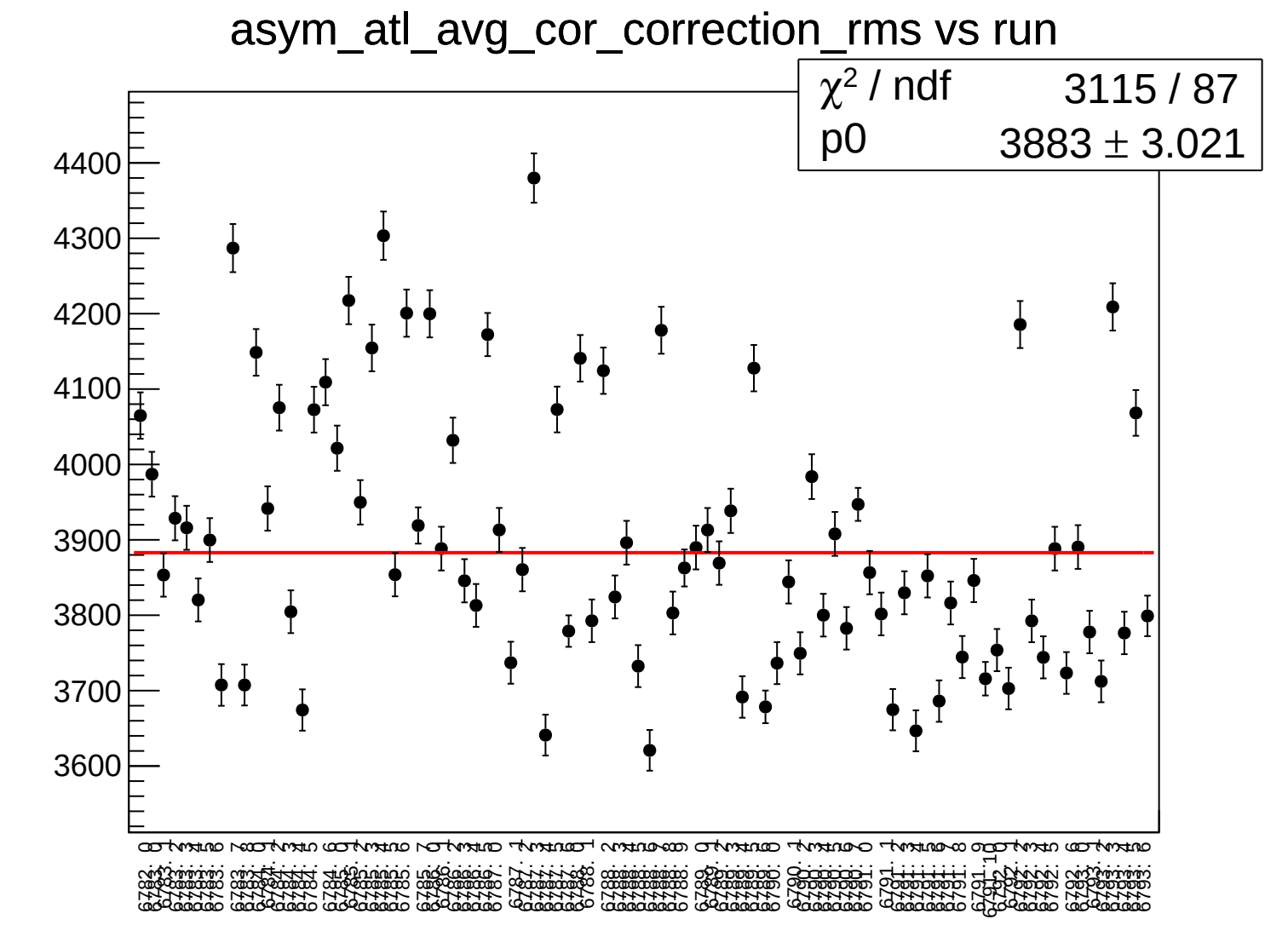

cor_asym_atl_avg_mean vs run
χ² / ndf 100.5 / 87
p0 −1259 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 66.3
Std Dev 0
2
1
0
−1
−2
−3

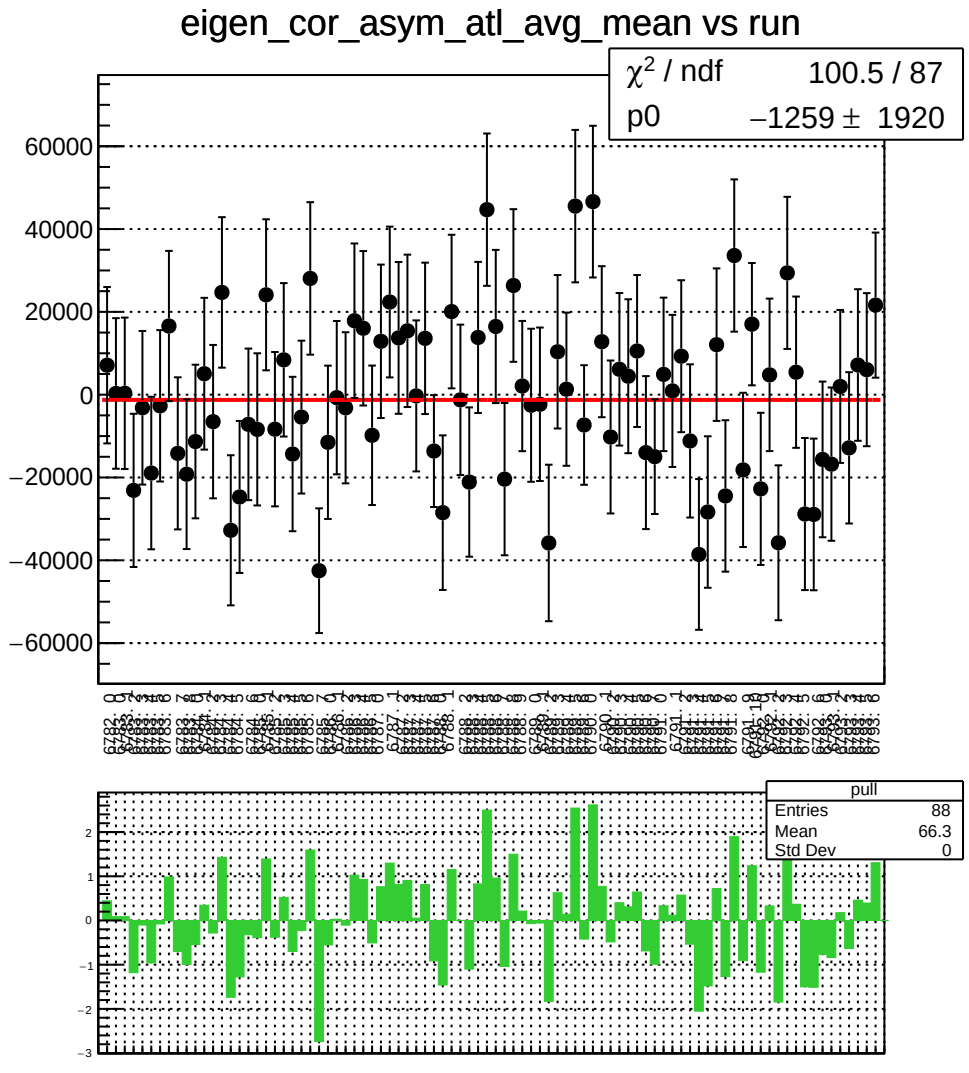

pull1D
Entries 88
Mean 0.01079
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

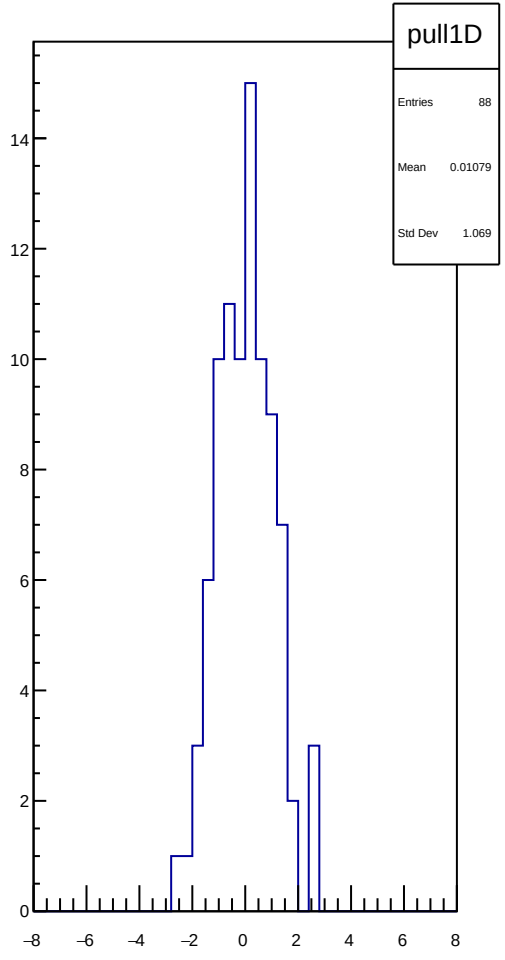

cor_asym_atl_avg_rms vs run
χ^2 / ndf 115.2 / 87
p0 1746 ± 1.358
1800
1780
1760
1740
1720
1700

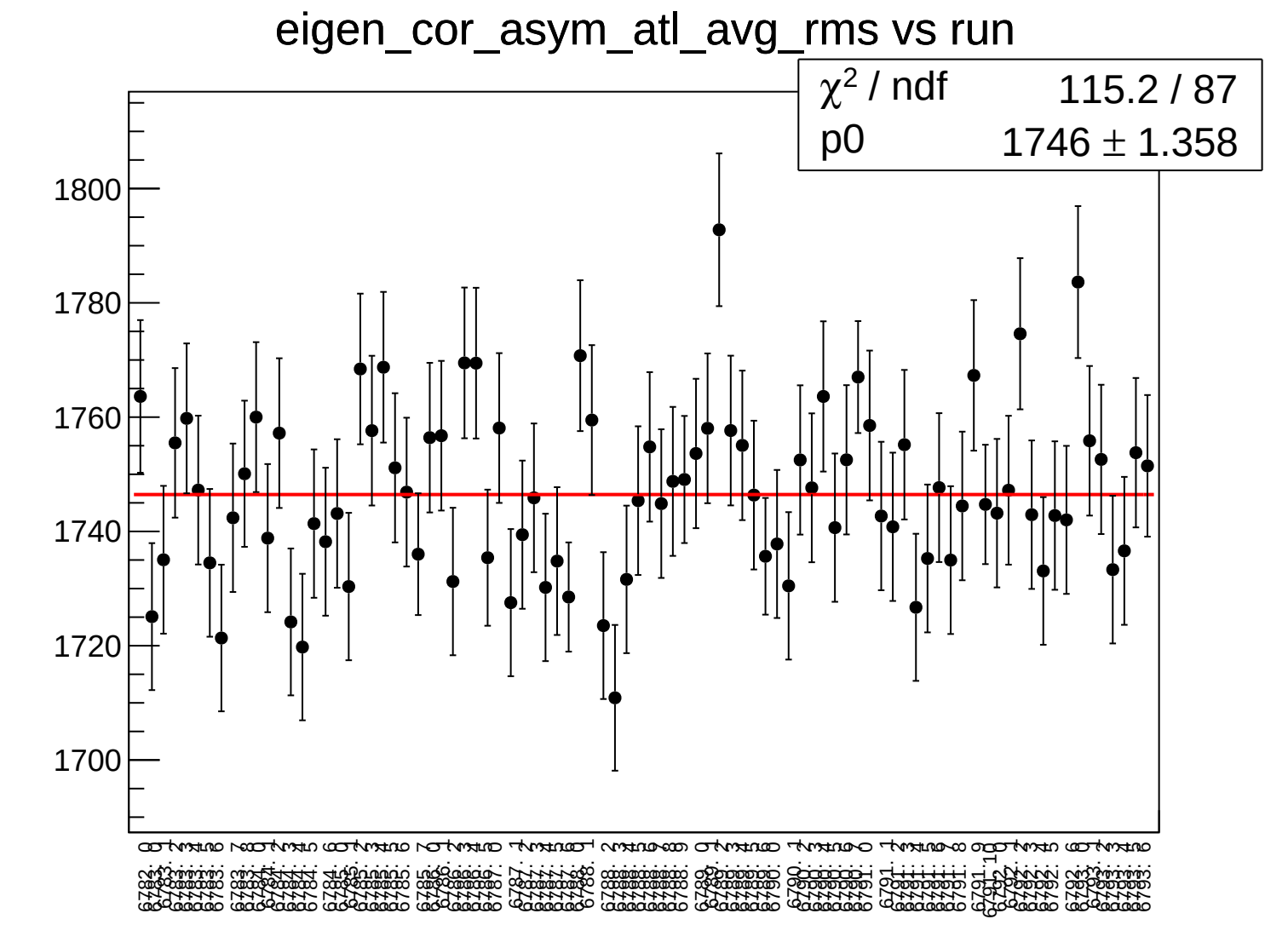

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 91.35 / 87
p0 −3584 ± 4273
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −27.26
Std Dev 0
2
1
0
−1
−2

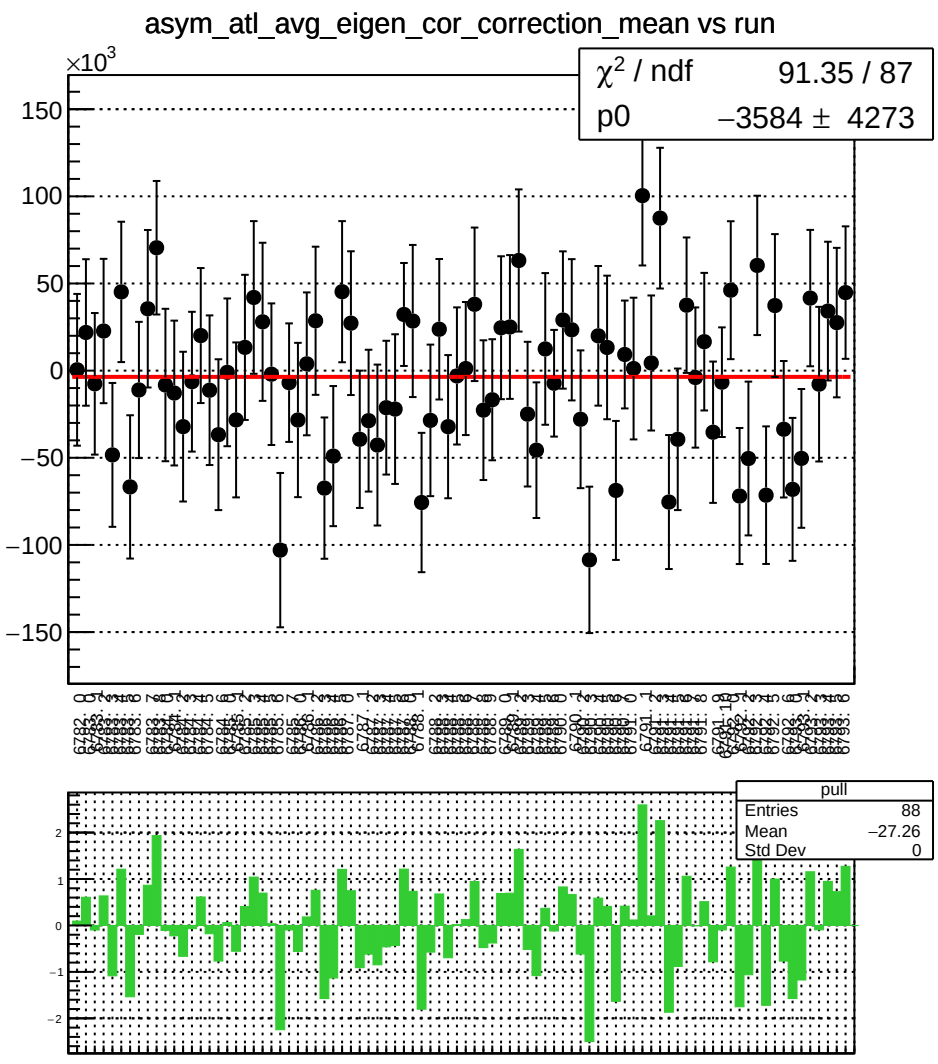

pull1D
Entries 88
Mean −0.008163
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

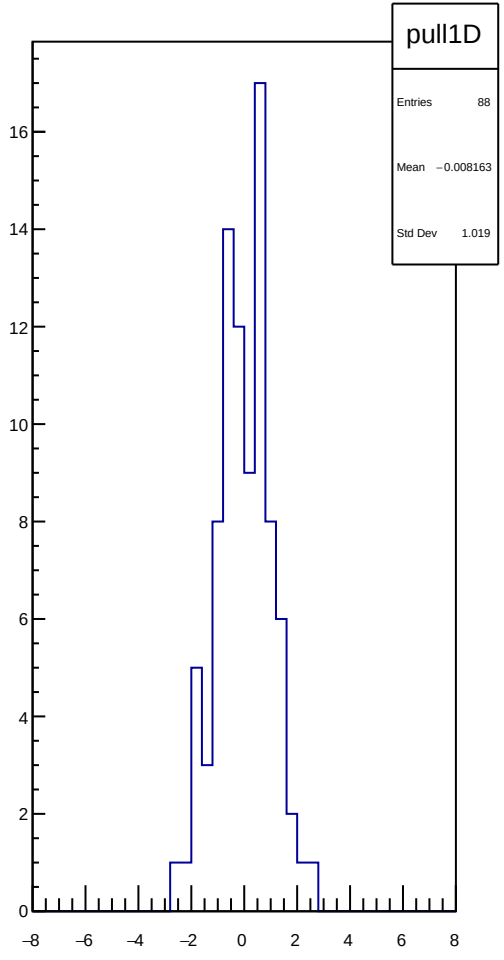

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 3115 / 87
p0 3883 ± 3.021
4400
4300
4200
4100
4000
3900
3800
3700
3600

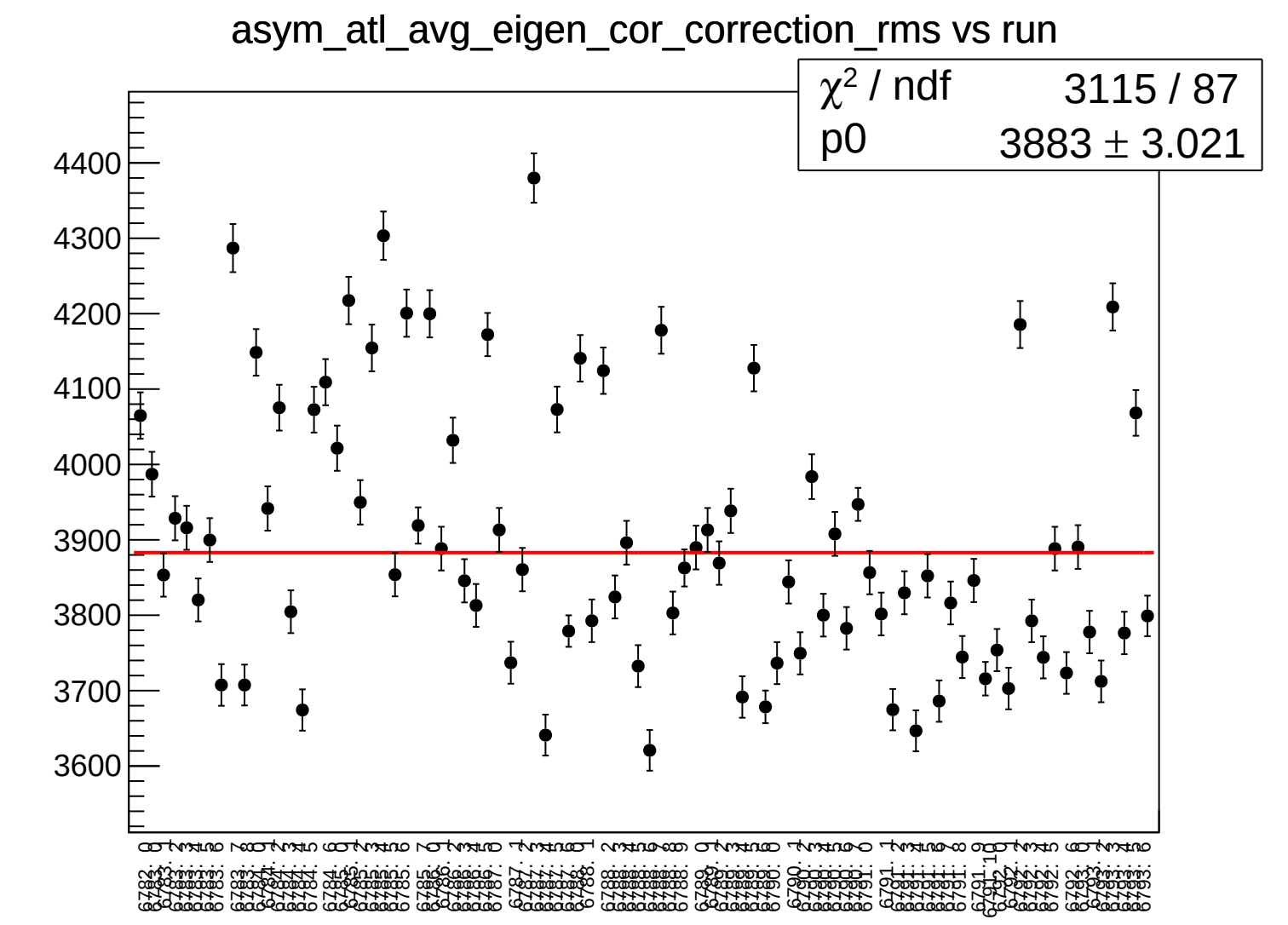

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 100.5 / 87
p0 −1259 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 66.3
Std Dev 0
2
1
0
−1
−2
−3

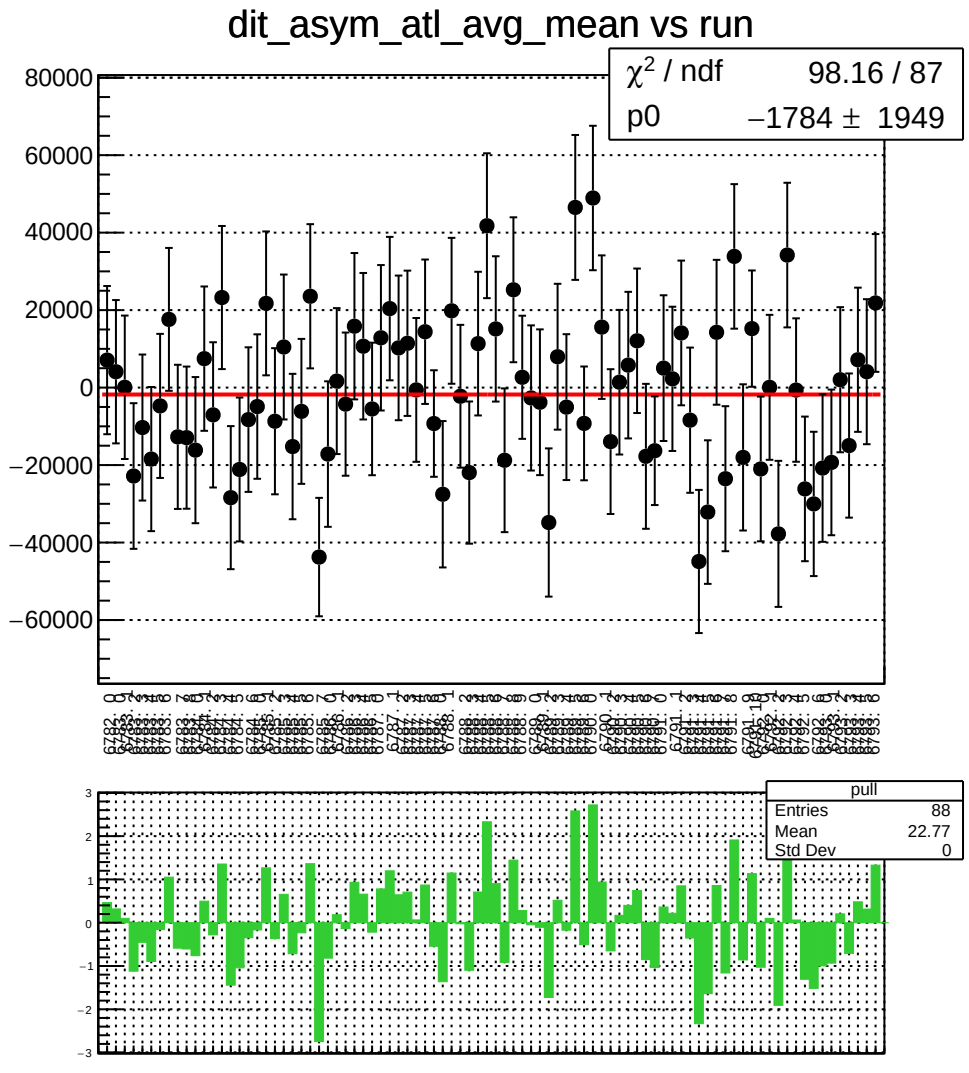

pull1D
Entries 88
Mean 0.01079
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

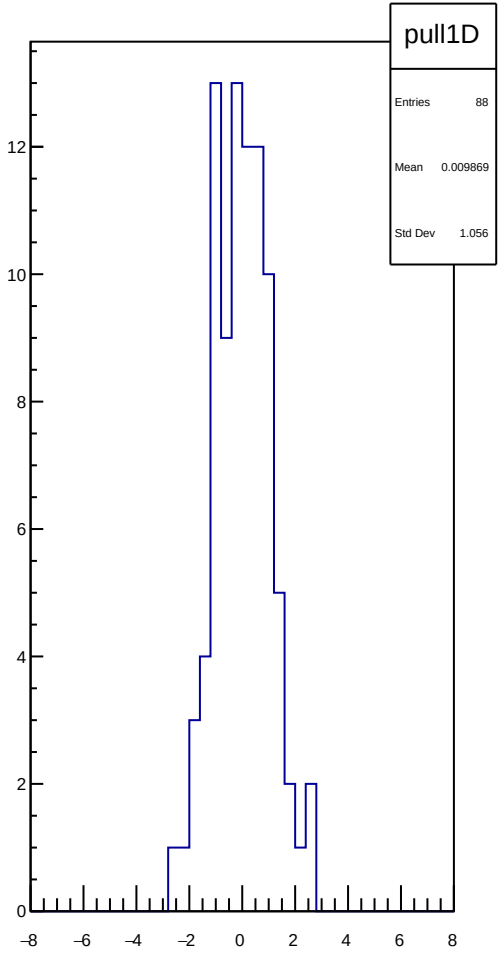

eigen_cor_asym_atl_avg_rms vs run
χ^2 / ndf 115.2 / 87
p0 1746 ± 1.358
1800
1780
1760
1740
1720
1700

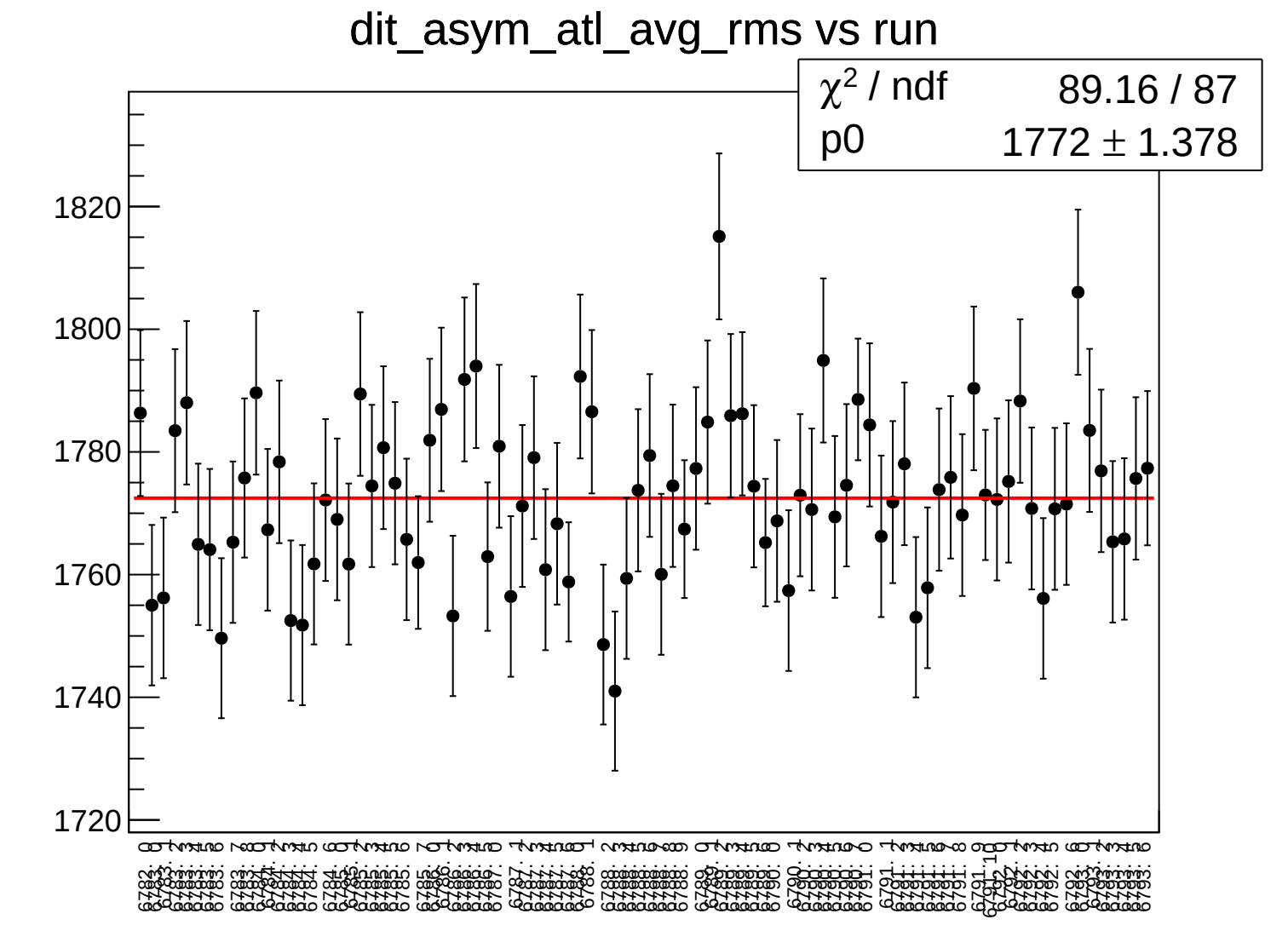

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.35 / 87
p0 −3584 ± 4273
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −27.26
Std Dev 0
2
1
0
−1
−2

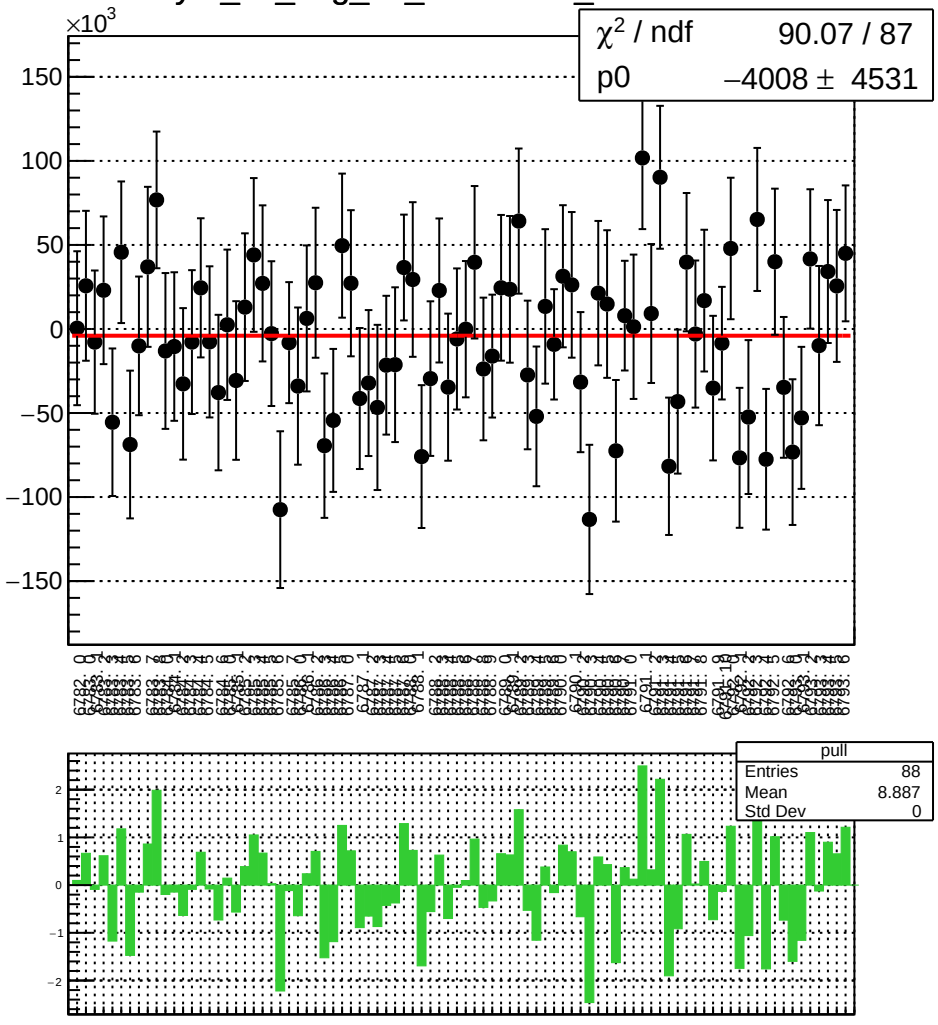

pull1D
Entries 88
Mean −0.008163
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

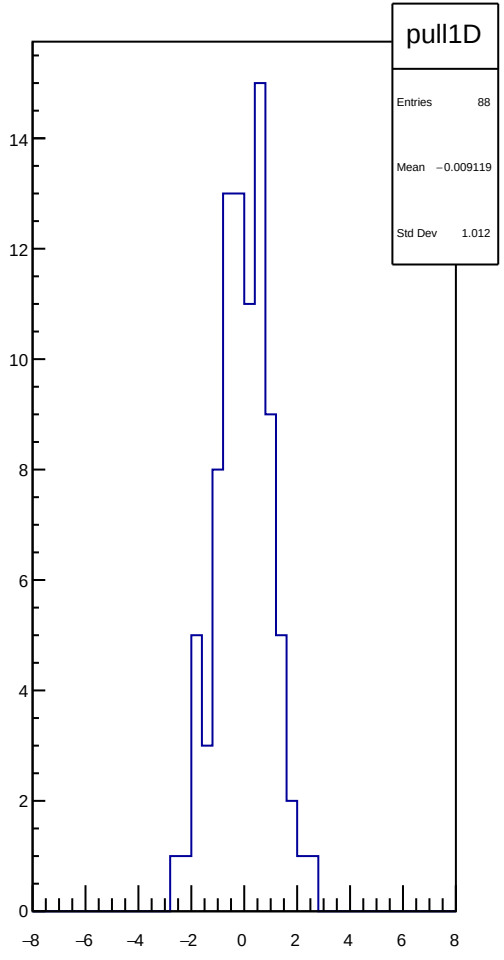

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 3115 / 87
p0 3883 ± 3.021
4400
4300
4200
4100
4000
3900
3800
3700
3600

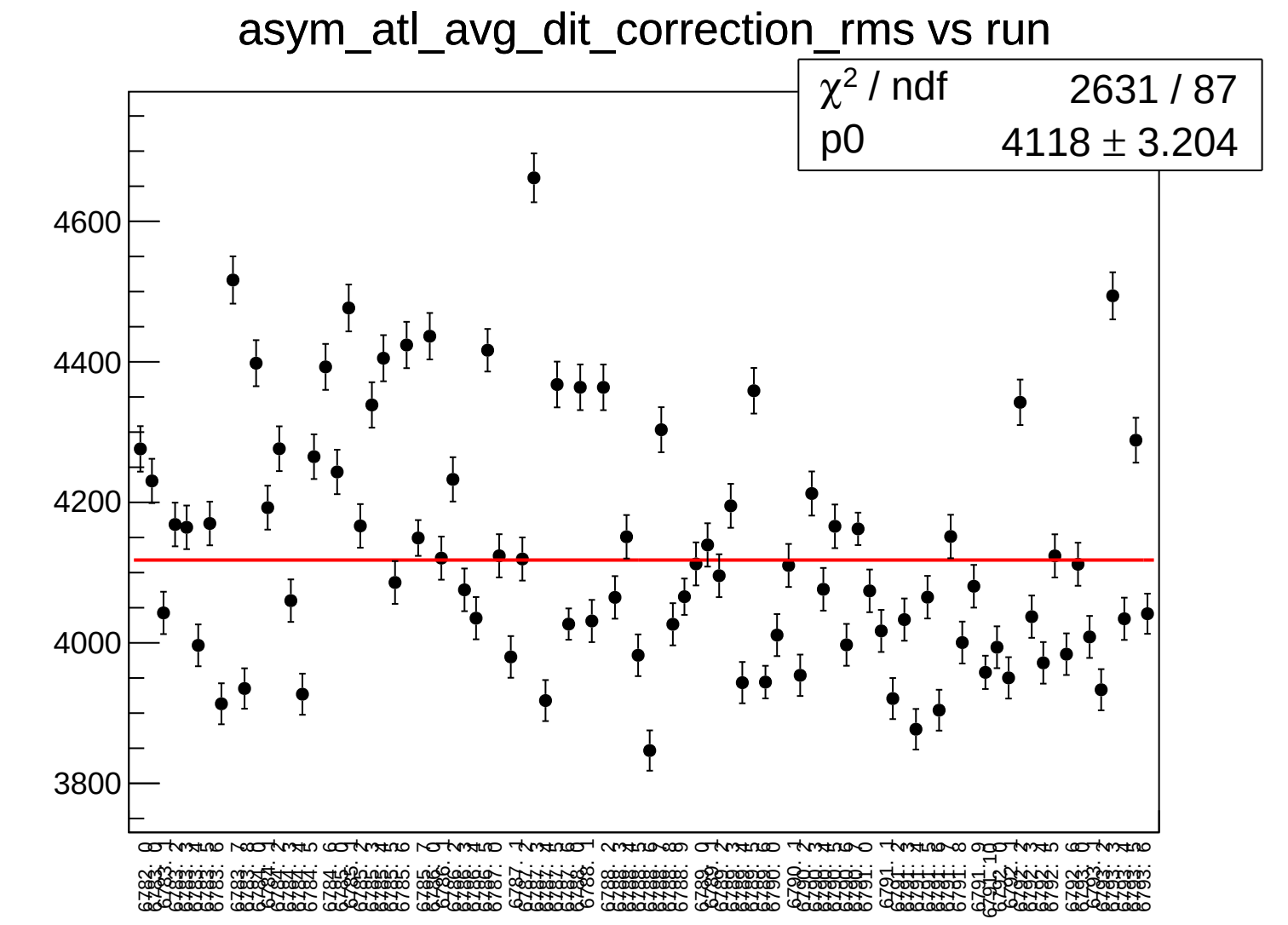

dit_asym_atl_avg_mean vs run
χ² / ndf 98.16 / 87
p0 −1784 ± 1949
pull
Entries 88
Mean 22.77
Std Dev 0

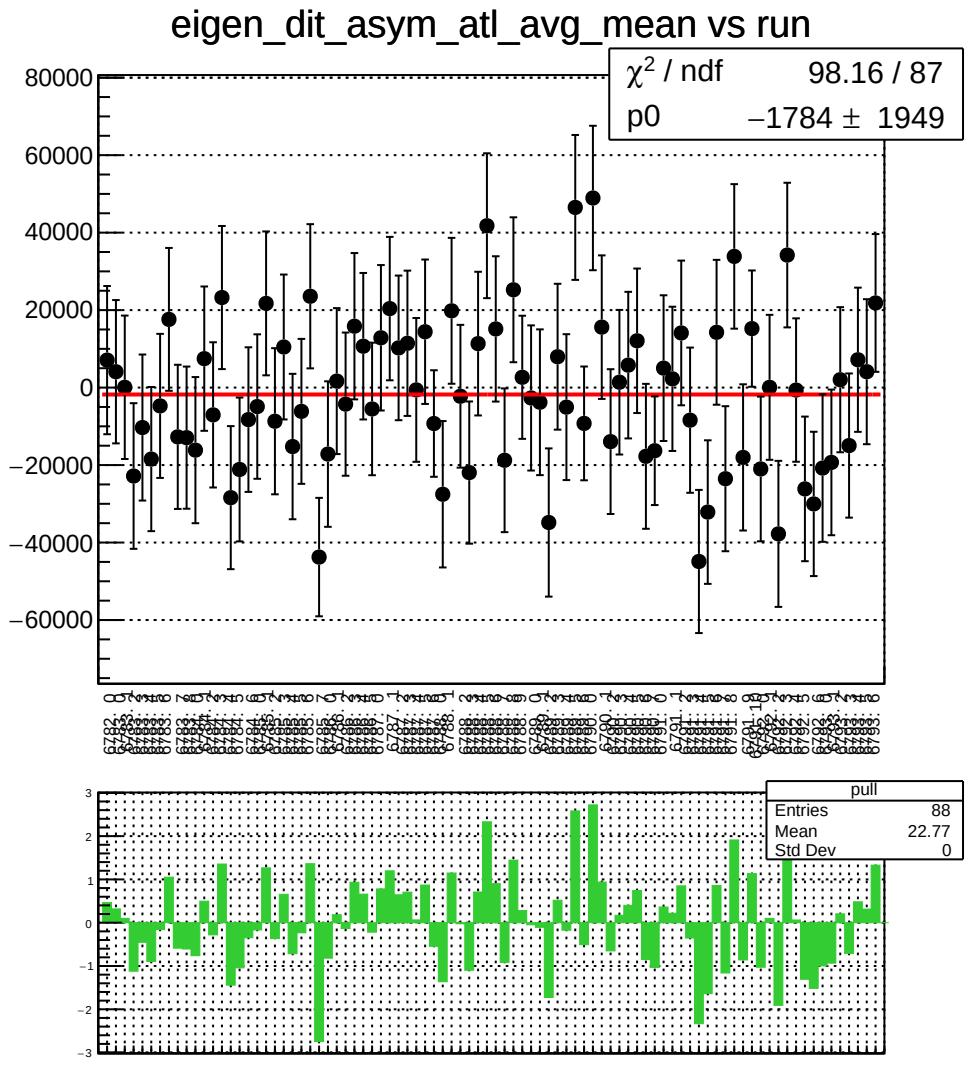

pull1D
Entries 88
Mean 0.009869
Std Dev 1.056

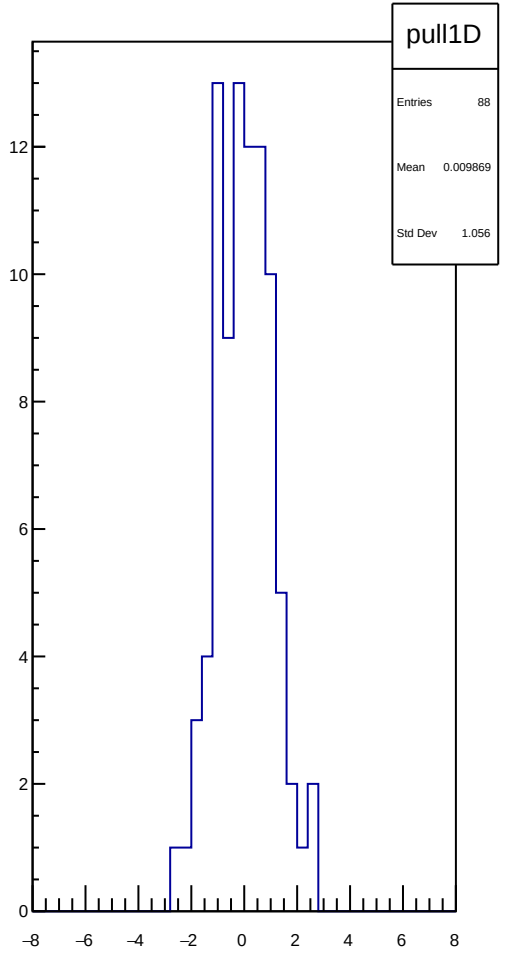

dit_asym_atl_avg_rms vs run
χ^2 / ndf 89.16 / 87
p0 1772 ± 1.378
1820
1800
1780
1760
1740
1720

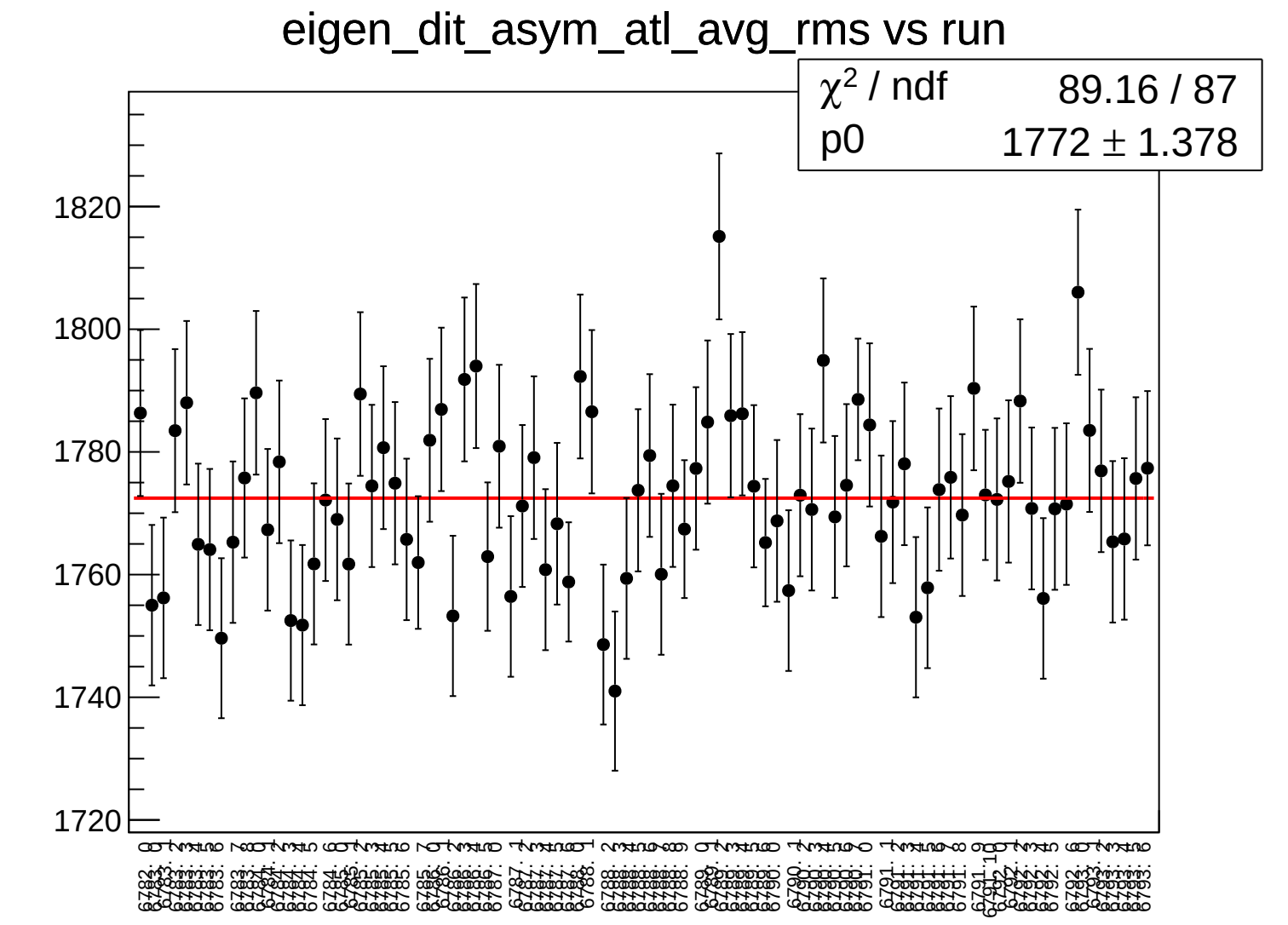

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.07 / 87
p0 −4008 ± 4531
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 8.887
Std Dev 0
2
1
0
−1
−2

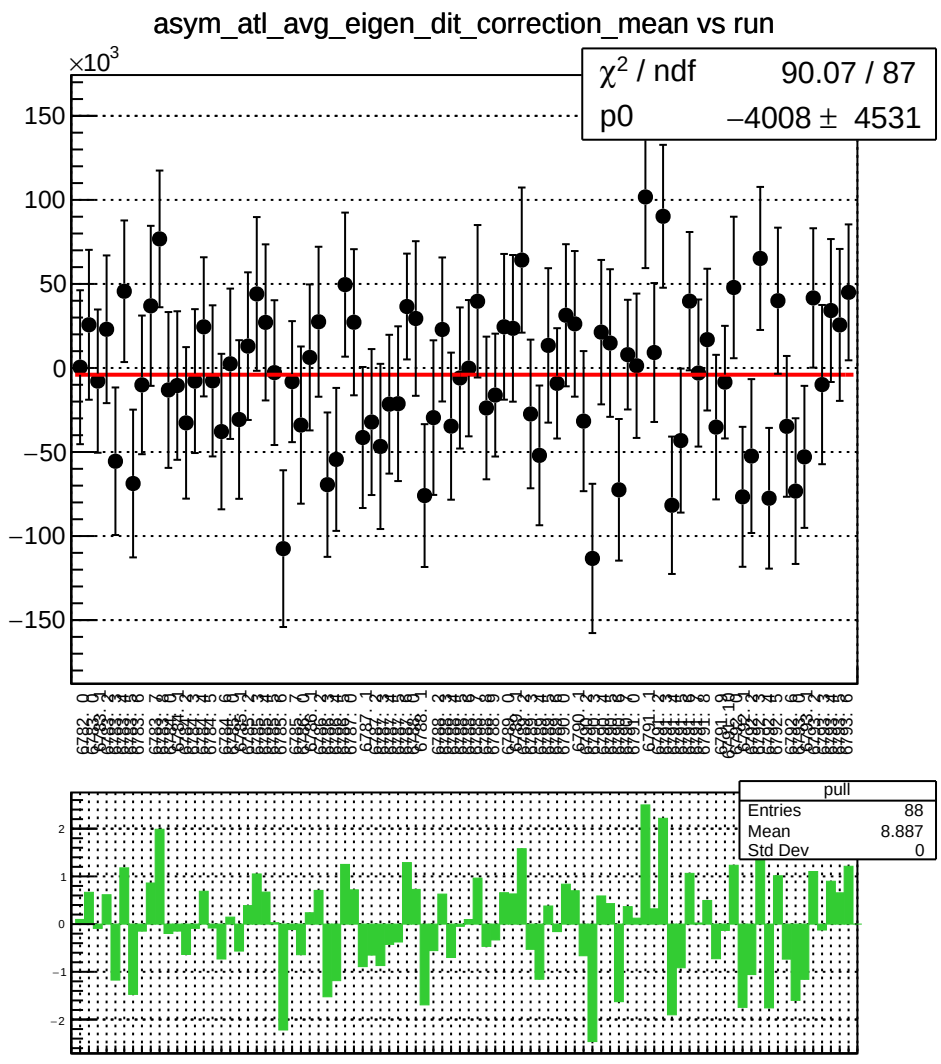

pull1D
Entries 88
Mean −0.009119
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

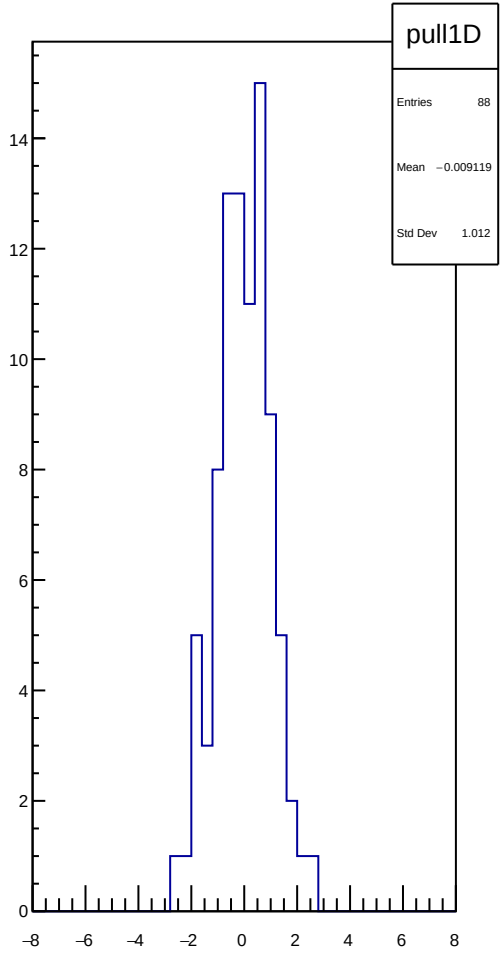

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2631 / 87
p0 4118 ± 3.204
4600
4400
4200
4000
3800

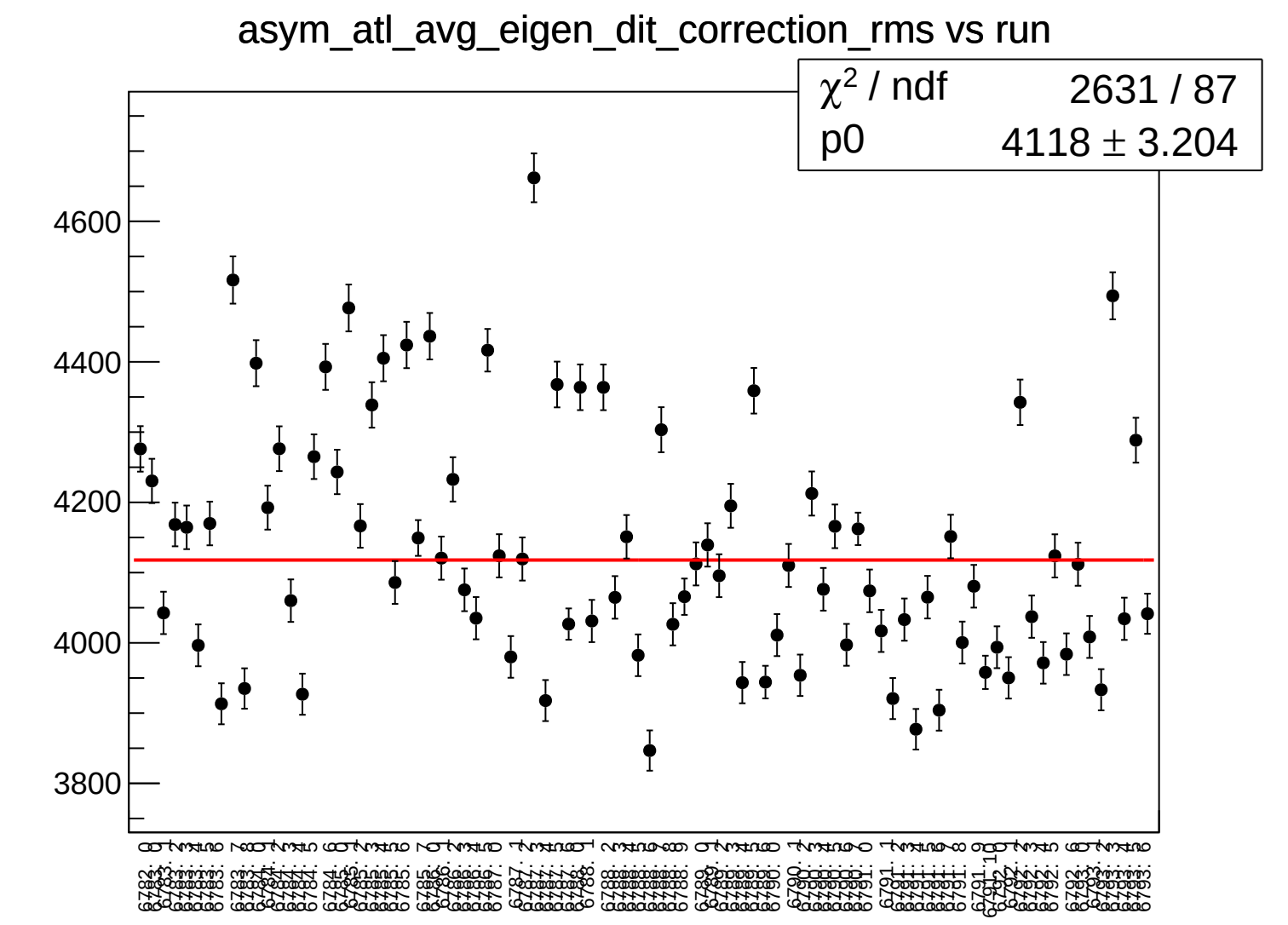

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 98.16 / 87
p0 −1784 ± 1949
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 22.77
Std Dev 0
3
2
1
0
−1
−2
−3

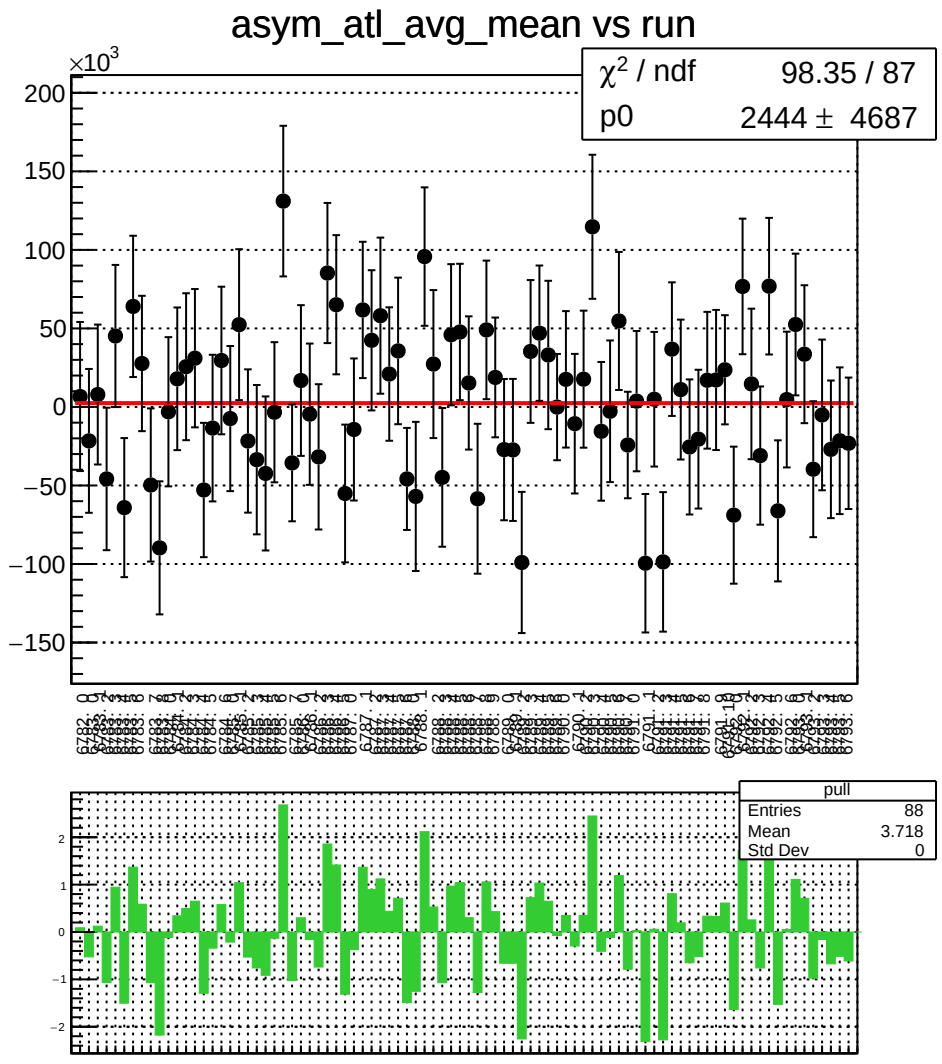

pull1D
Entries 88
Mean 0.009869
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

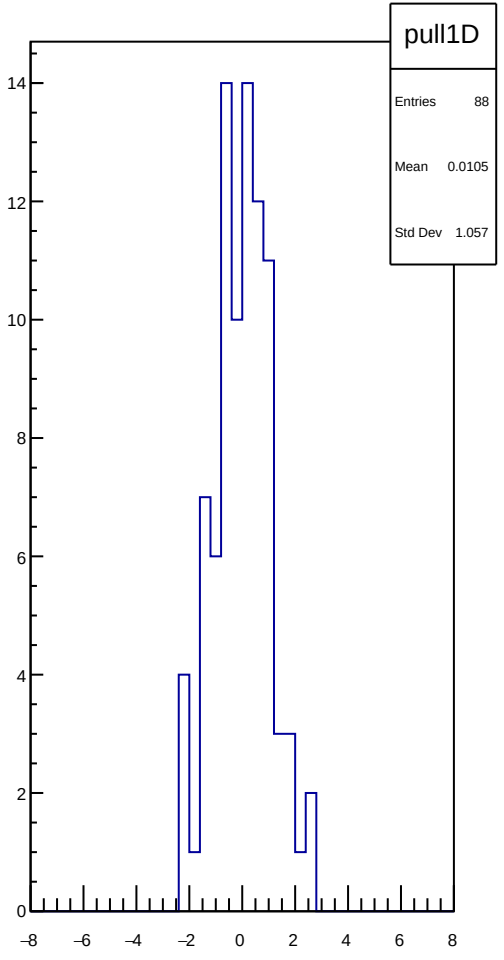

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 89.16 / 87
p0 1772 ± 1.378
1820
1800
1780
1760
1740
1720

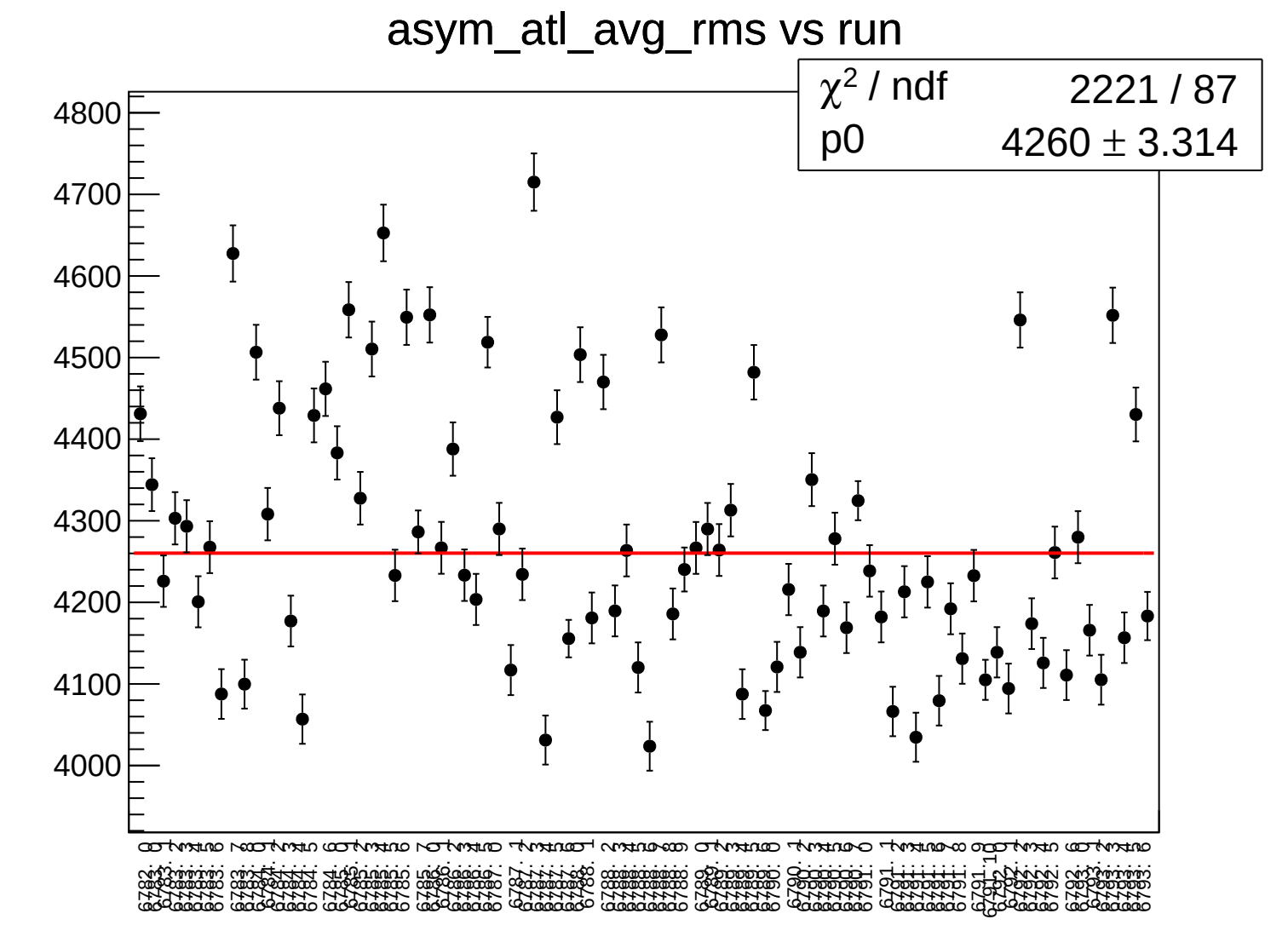

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.07 / 87
p0 −4008 ± 4531
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 8.887
Std Dev 0
2
1
0
−1
−2

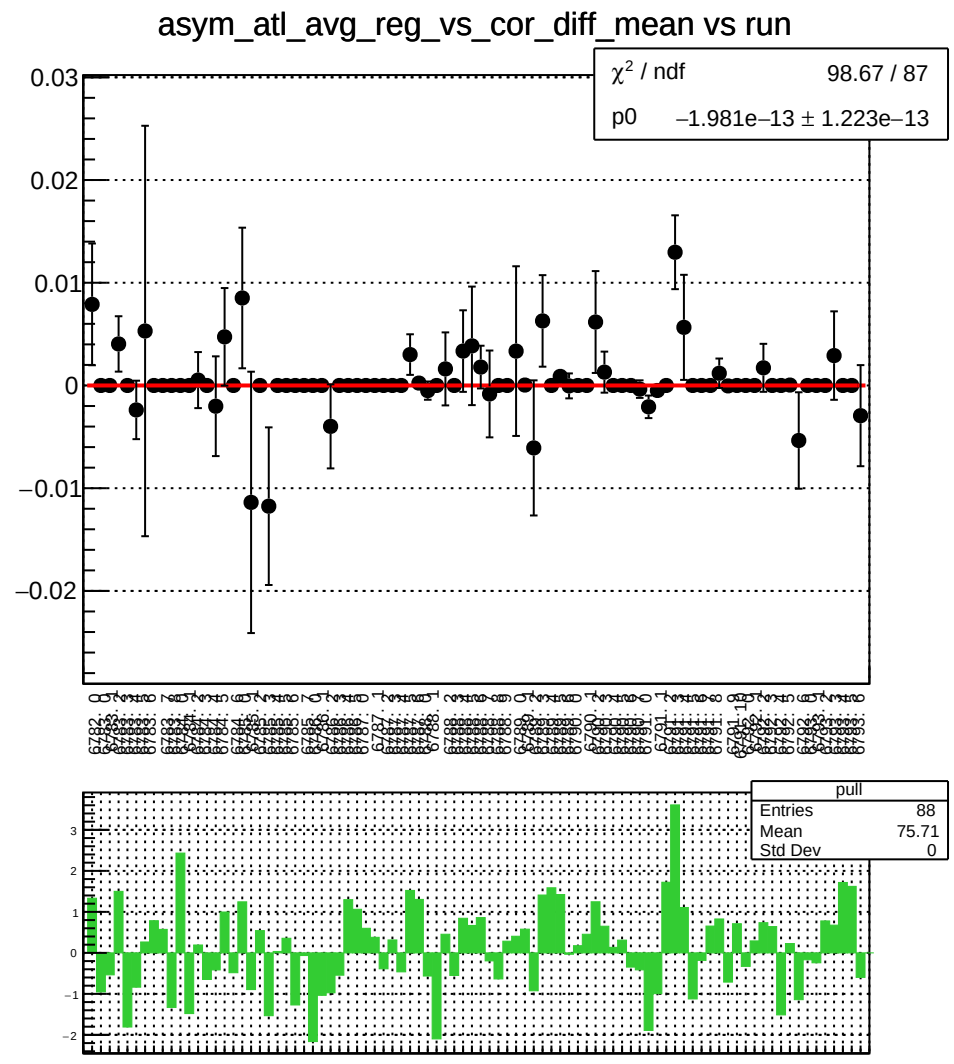

pull1D
Entries 88
Mean −0.009119
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

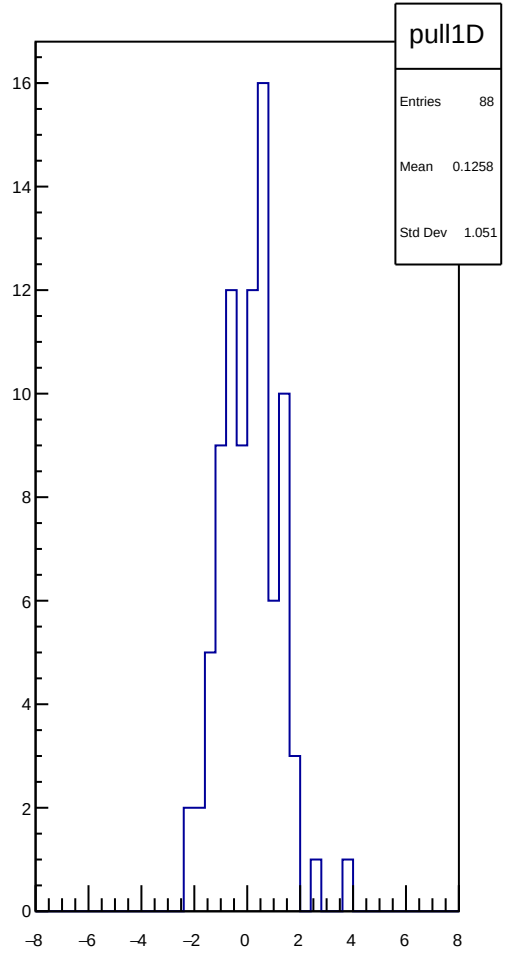

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2631 / 87
p0 4118 ± 3.204
4600
4400
4200
4000
3800

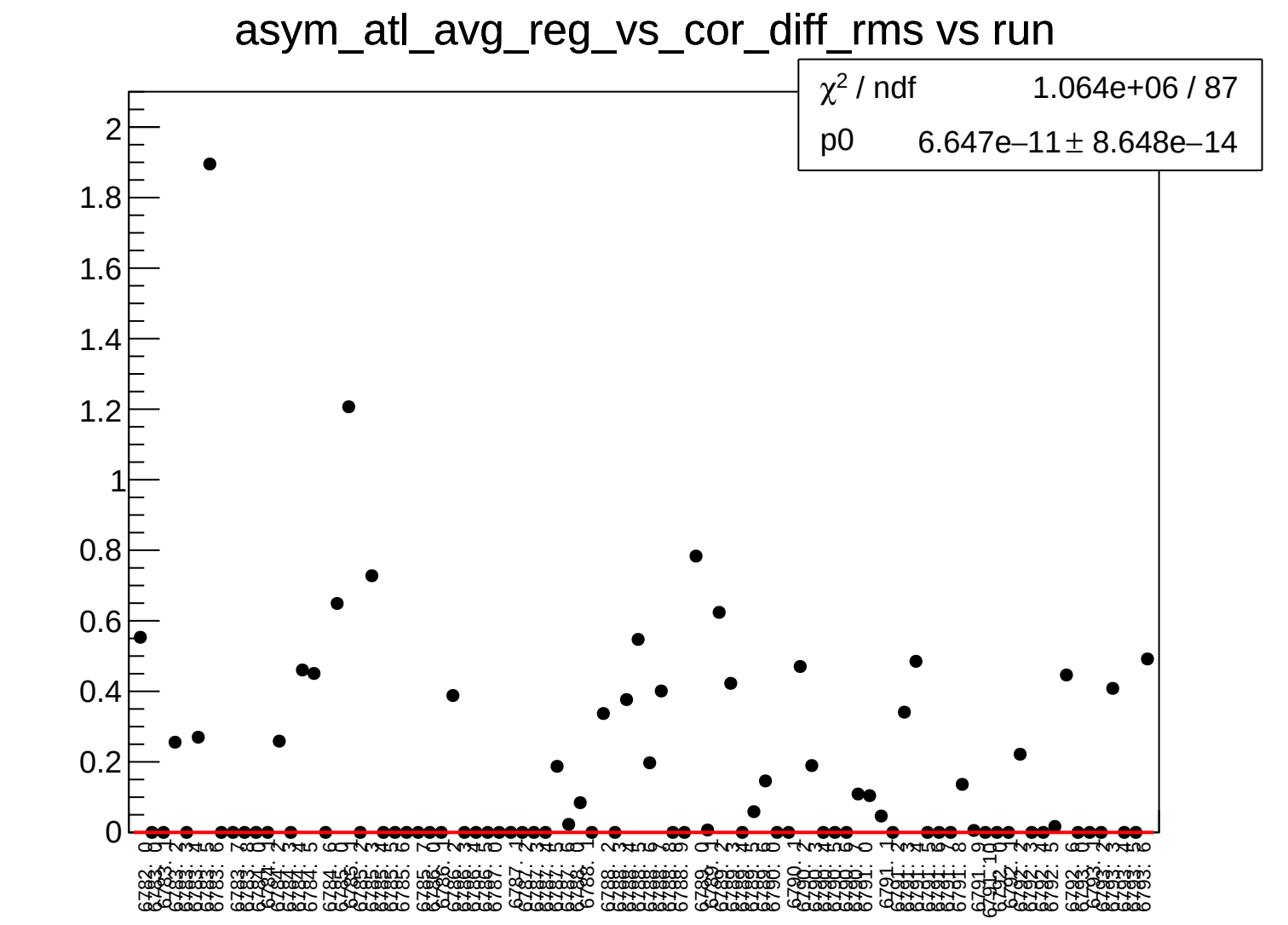

asym_atl_avg_mean vs run
×10^3
χ² / ndf 98.35 / 87
p0 2444 ± 4687
pull
Entries 88
Mean 3.718
Std Dev 0

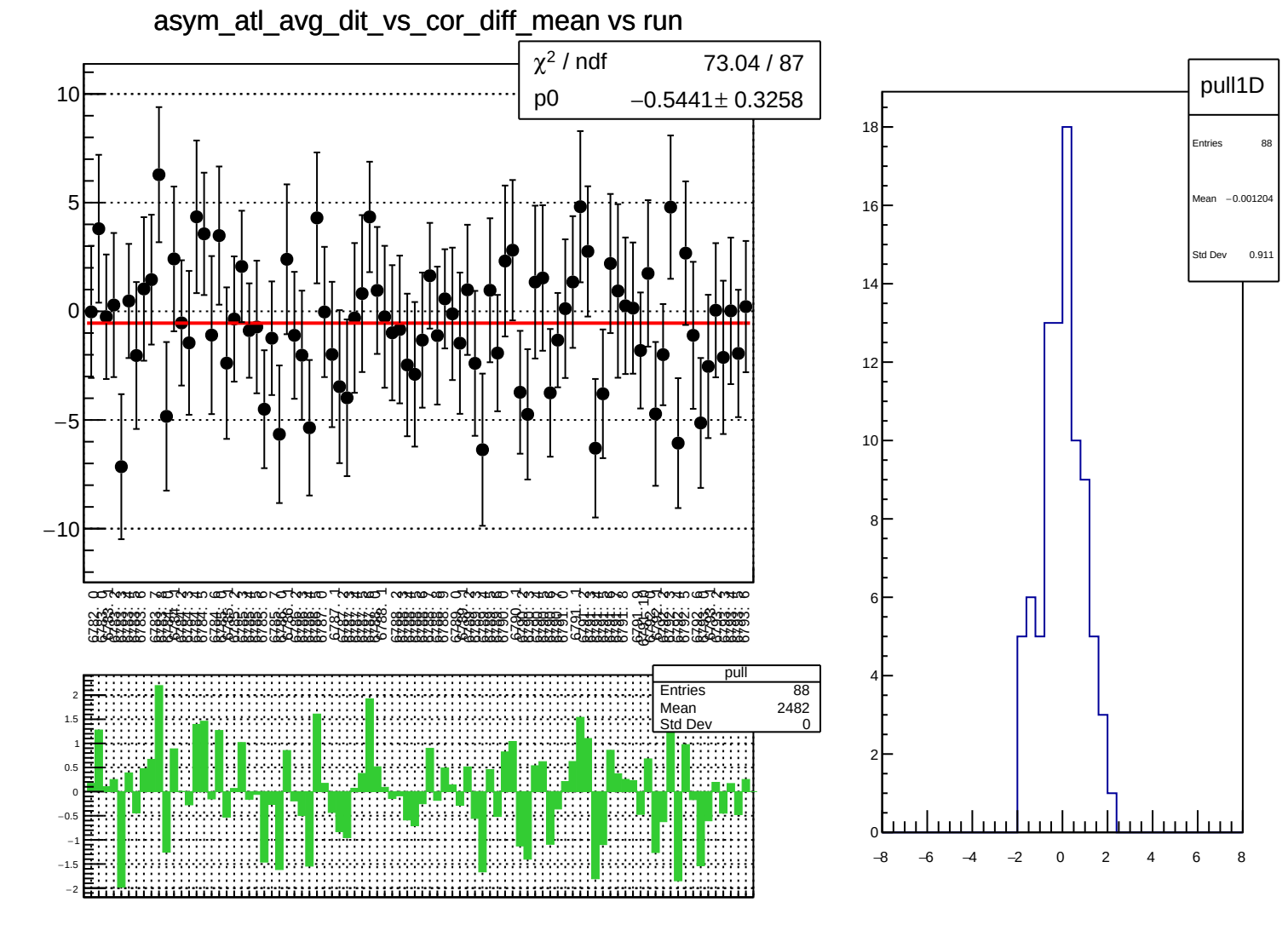

pull1D
Entries 88
Mean 0.0105
Std Dev 1.057

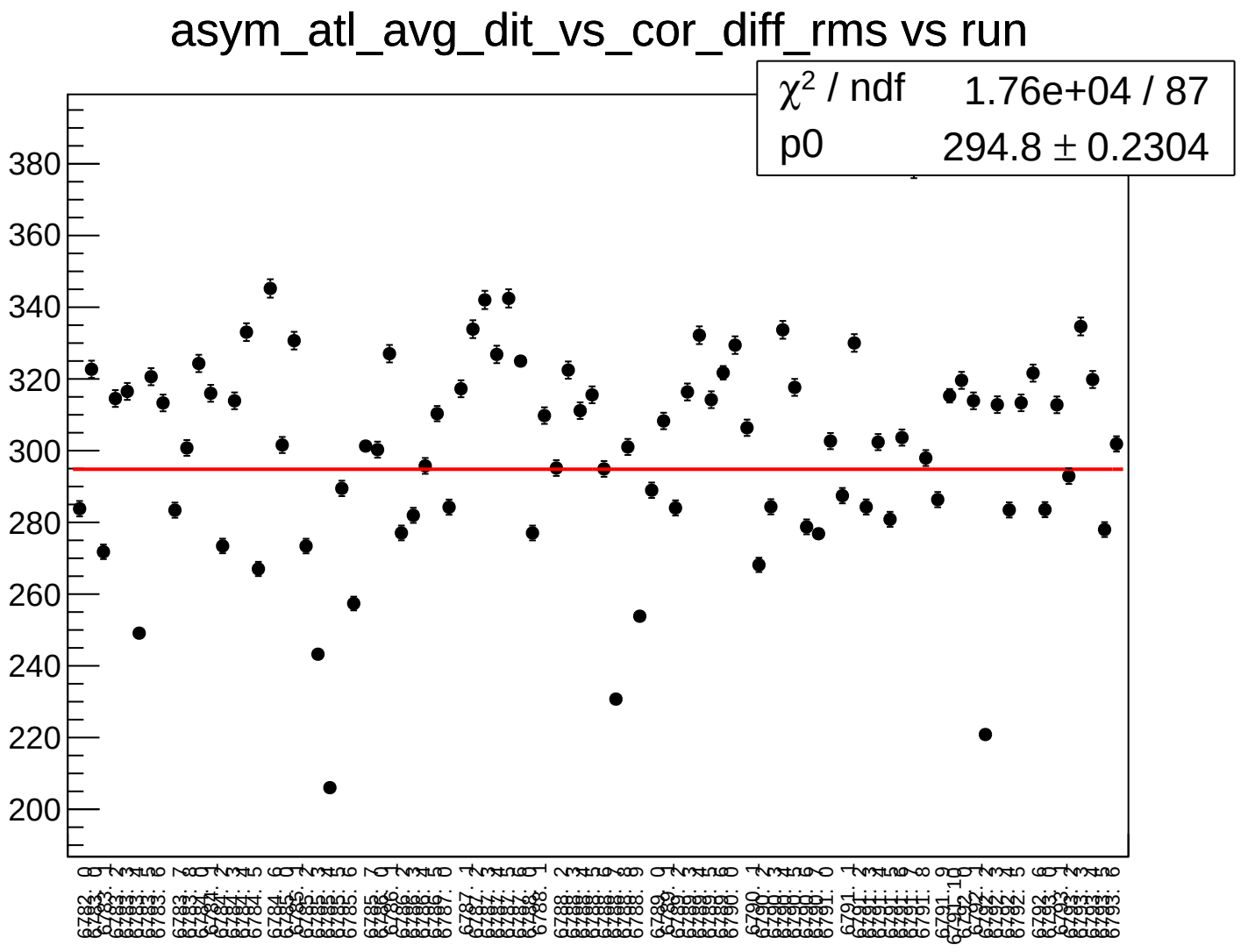

asym_atl_avg_rms vs run
χ² / ndf 2221 / 87
p0 4260 ± 3.314
4800
4700
4600
4500
4400
4300
4200
4100
4000

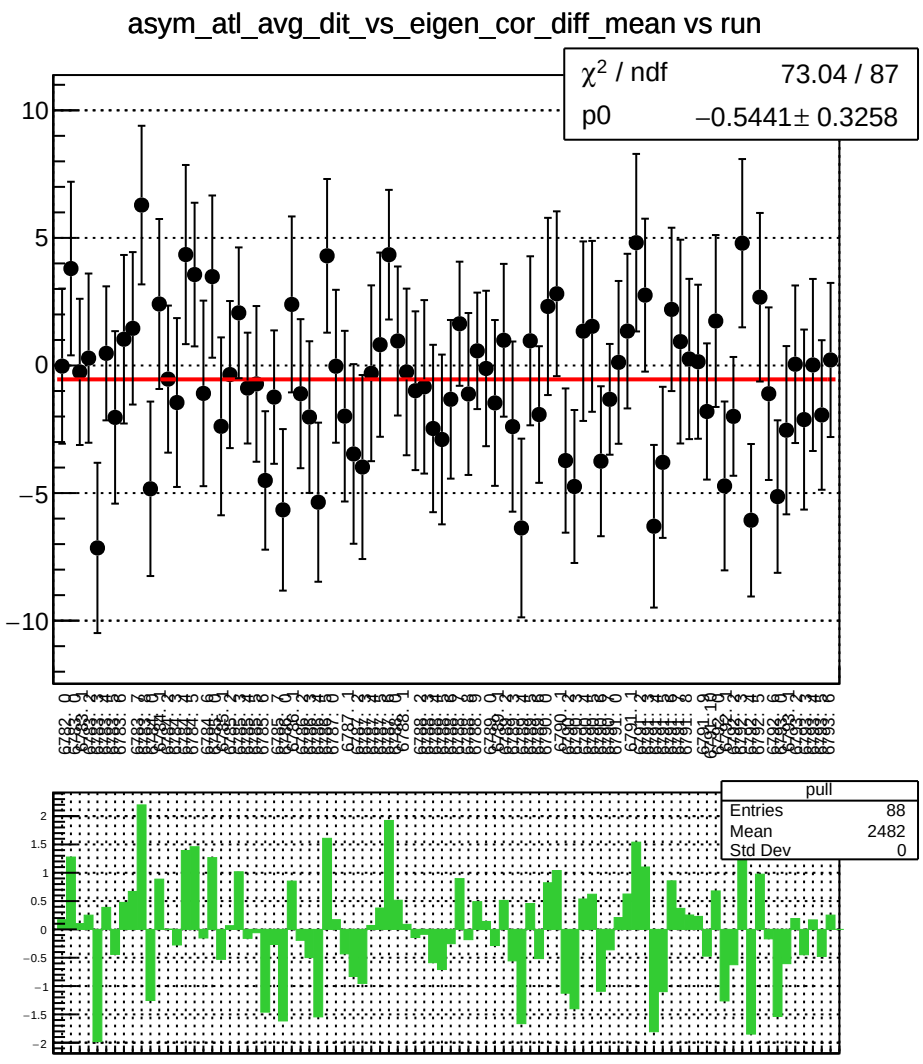

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.67 / 87
p0 −1.981e−13 ± 1.223e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 75.71
Std Dev 0
3
2
1
0
−1

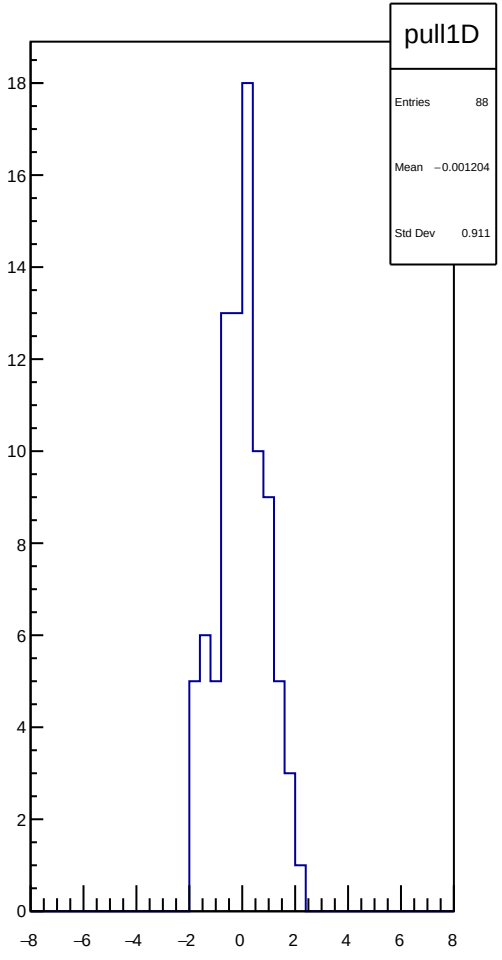

pull1D
Entries 88
Mean 0.1258
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

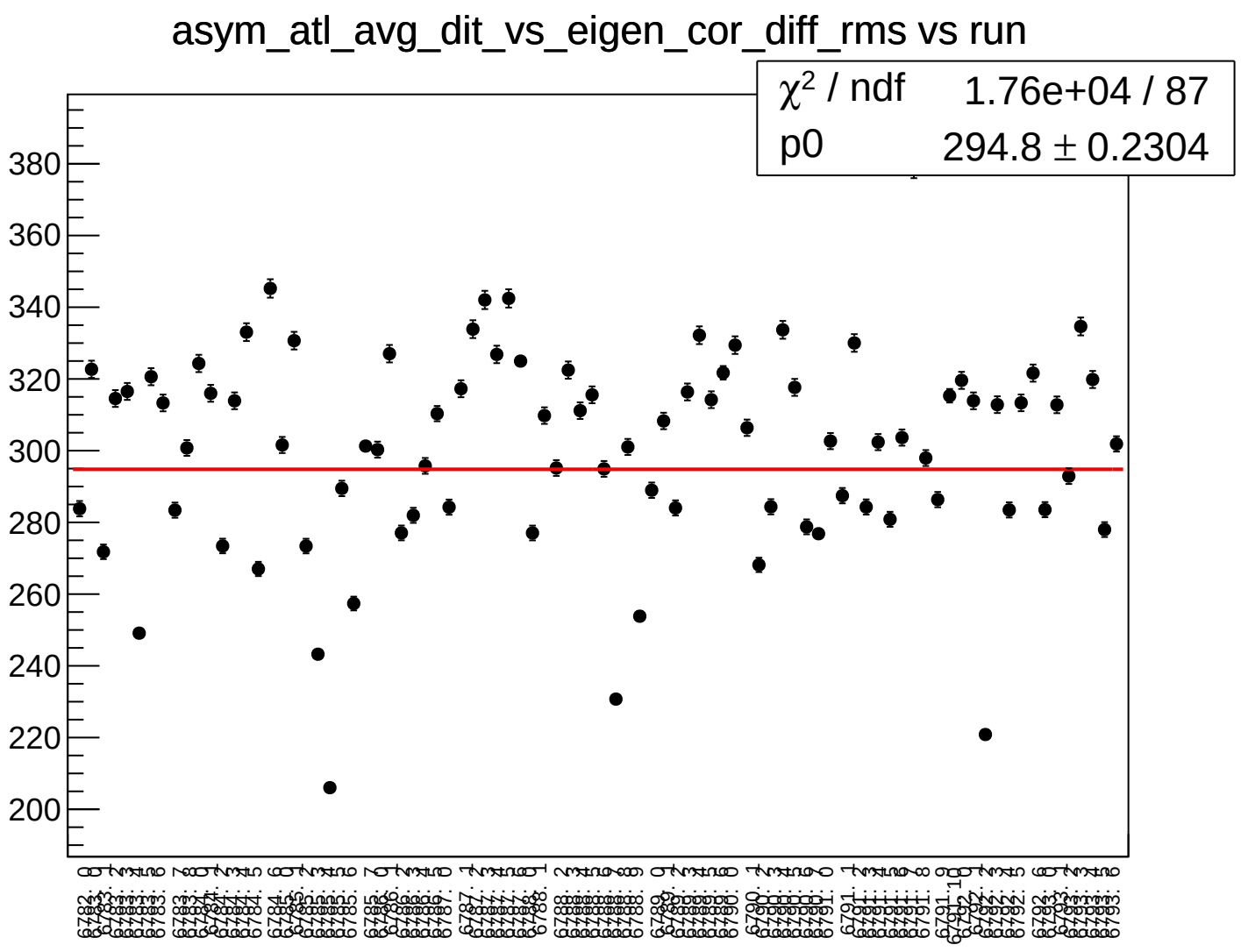

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.064e+06 / 87
p0 6.647e−11 ± 8.648e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

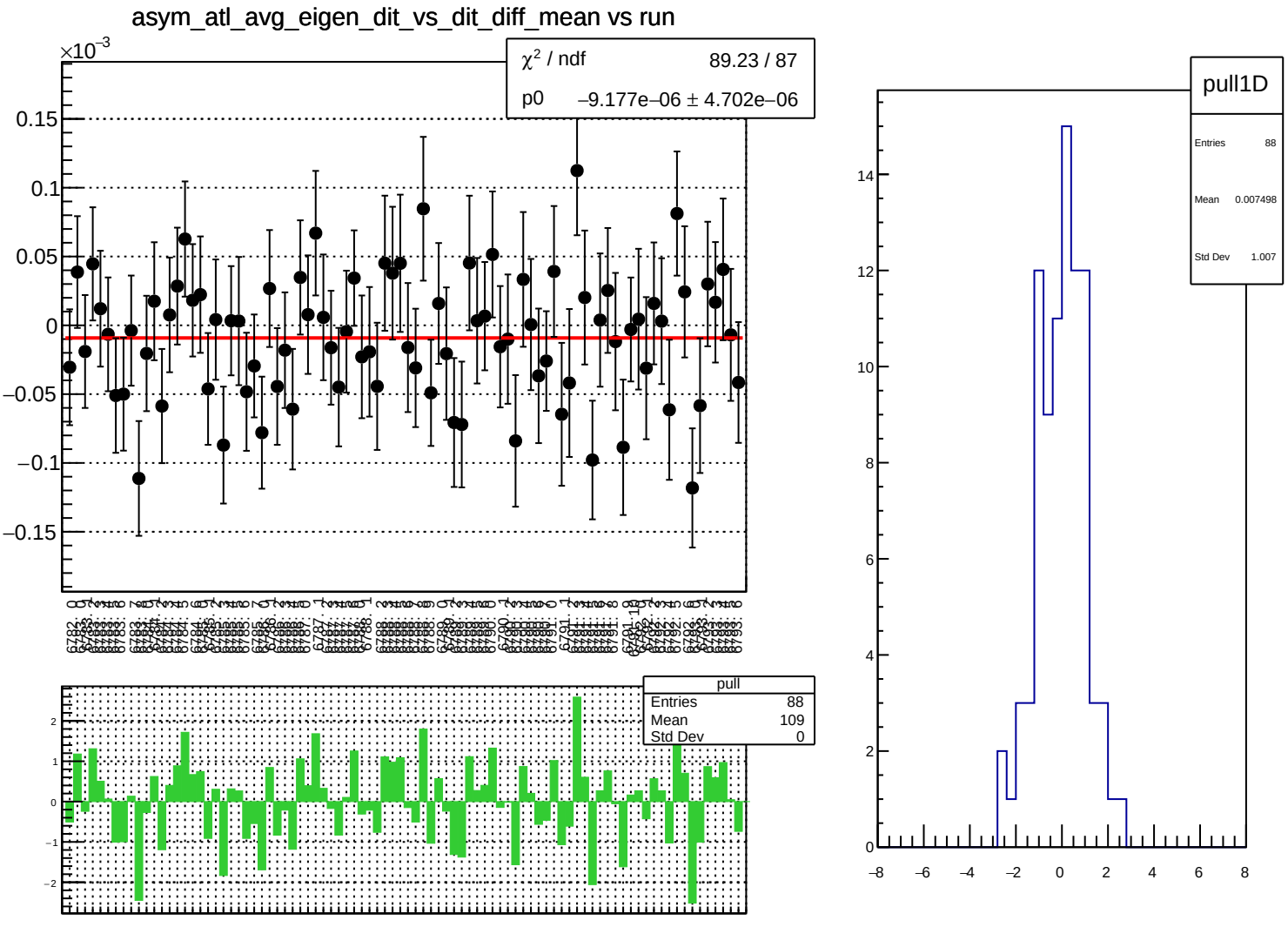

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5441± 0.3258
pull
Entries 88
Mean 2482
Std Dev 0
pull1D
Entries 88
Mean −0.001204
Std Dev 0.911

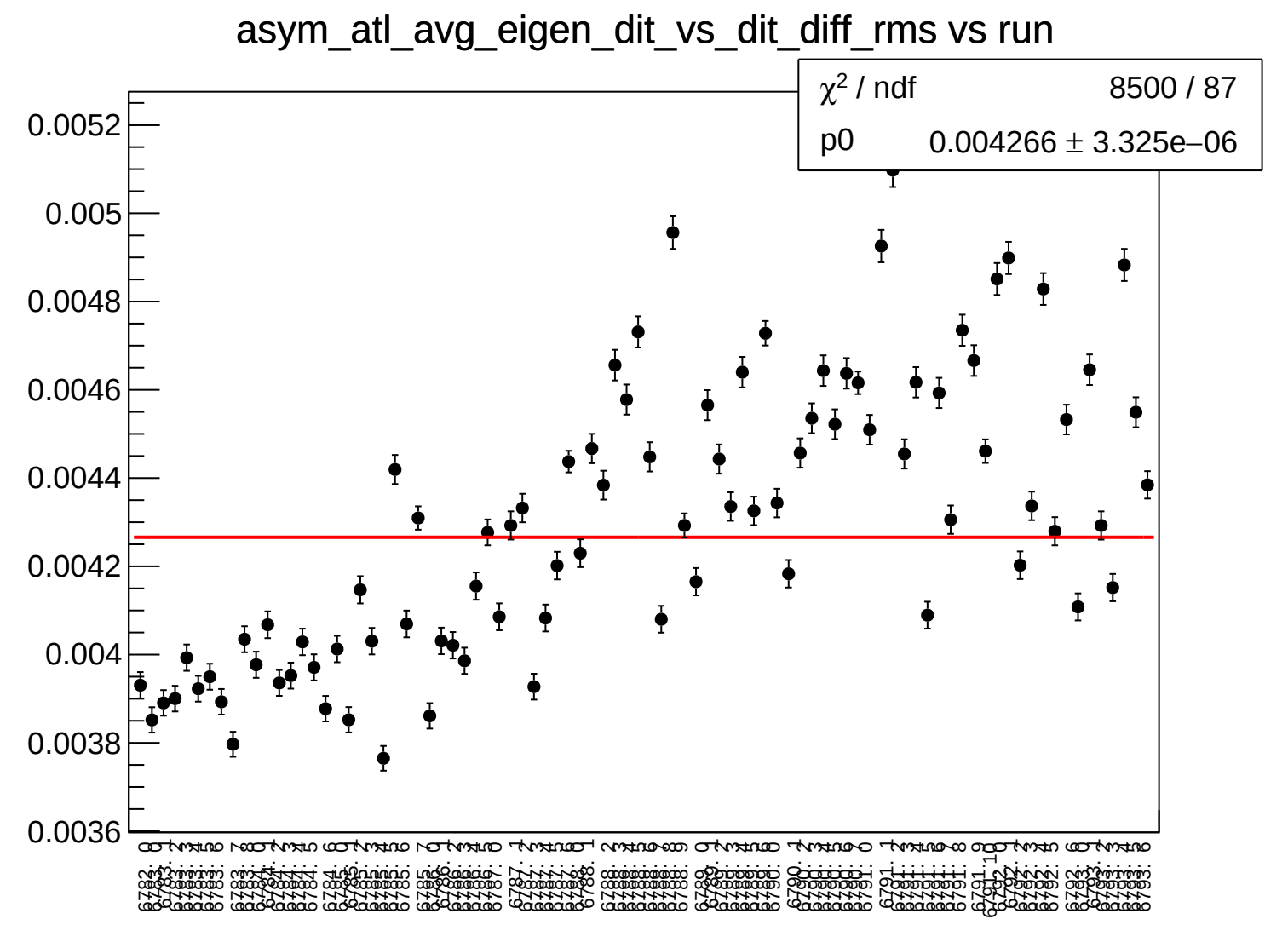

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.76e+04 / 87
p0 294.8 ± 0.2304
380
360
340
320
300
280
260
240
220
200

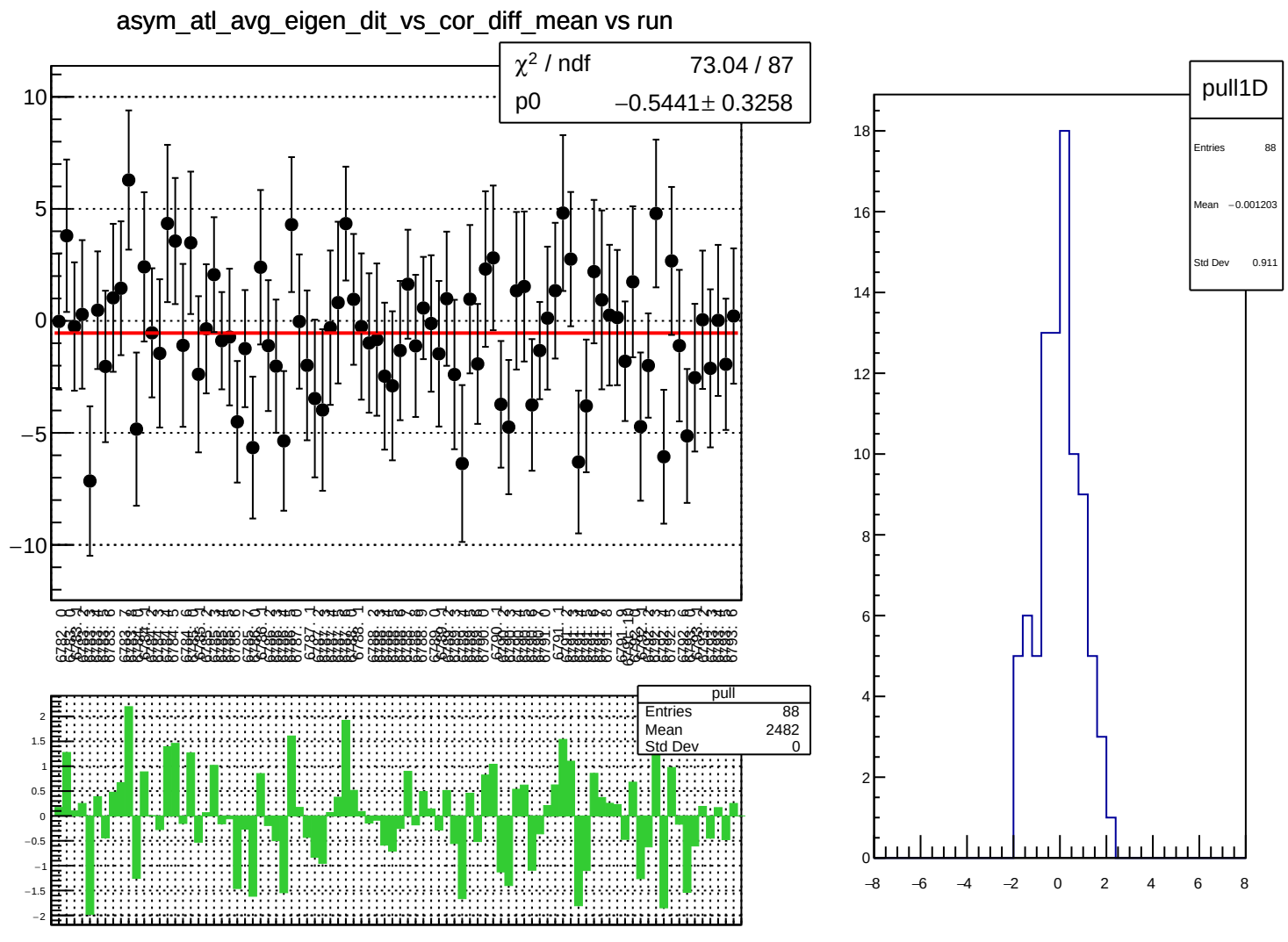

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5441± 0.3258
pull
Entries 88
Mean 2482
Std Dev 0

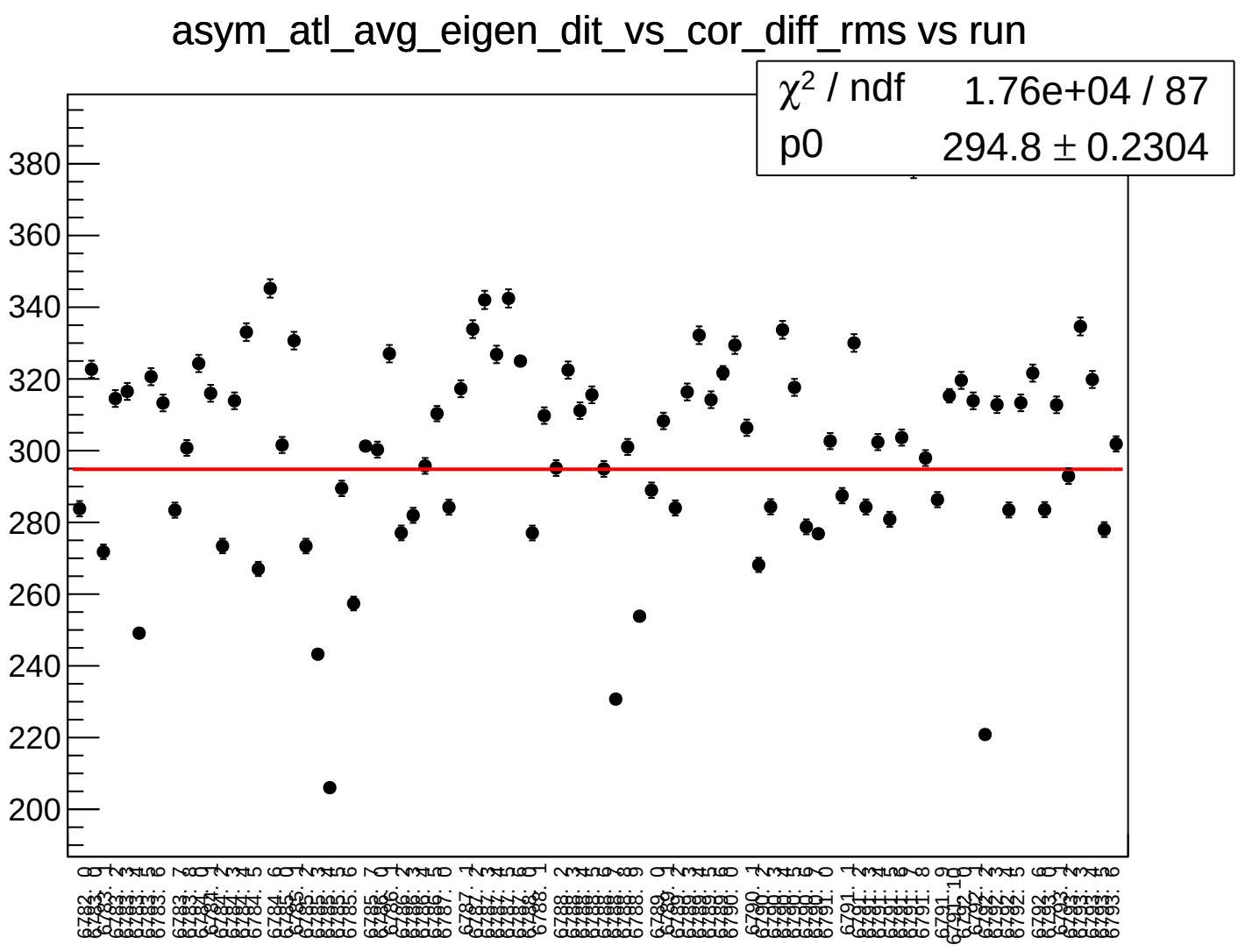

pull1D
Entries 88
Mean −0.001204
Std Dev 0.911

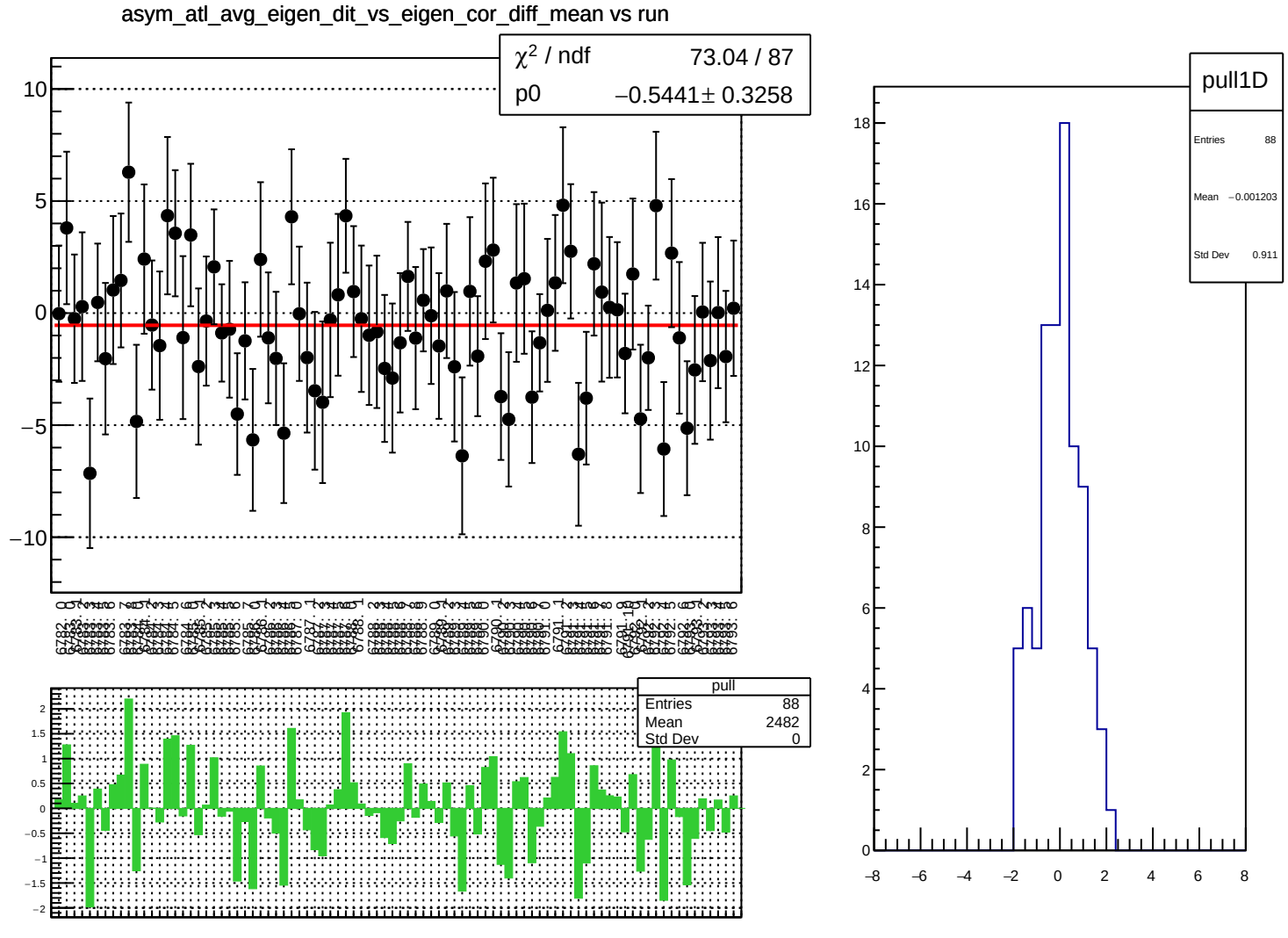

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.76e+04 / 87
p0 294.8 ± 0.2304
380
360
340
320
300
280
260
240
220
200

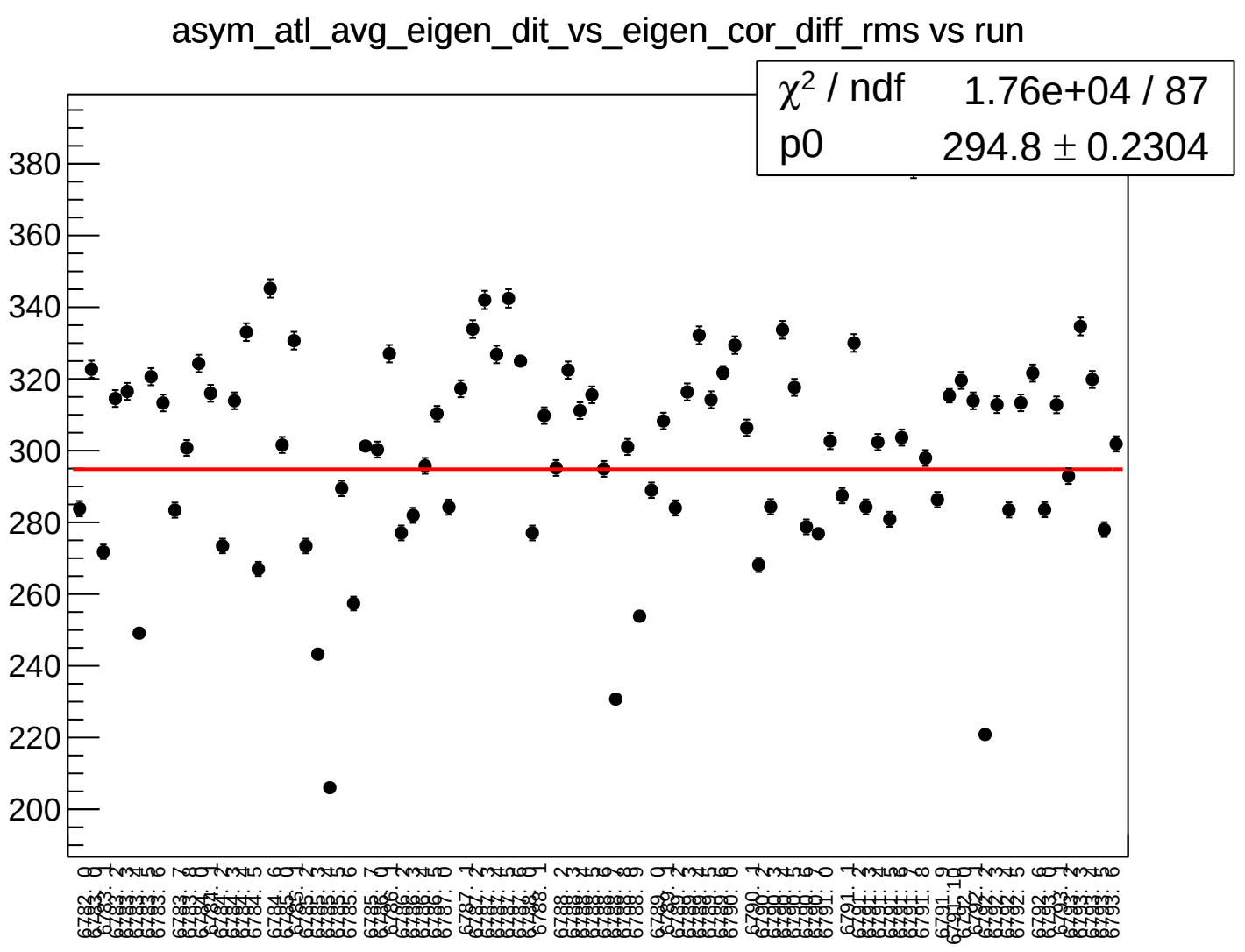

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.23 / 87
p0 −9.177e−06 ± 4.702e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 109
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007498
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

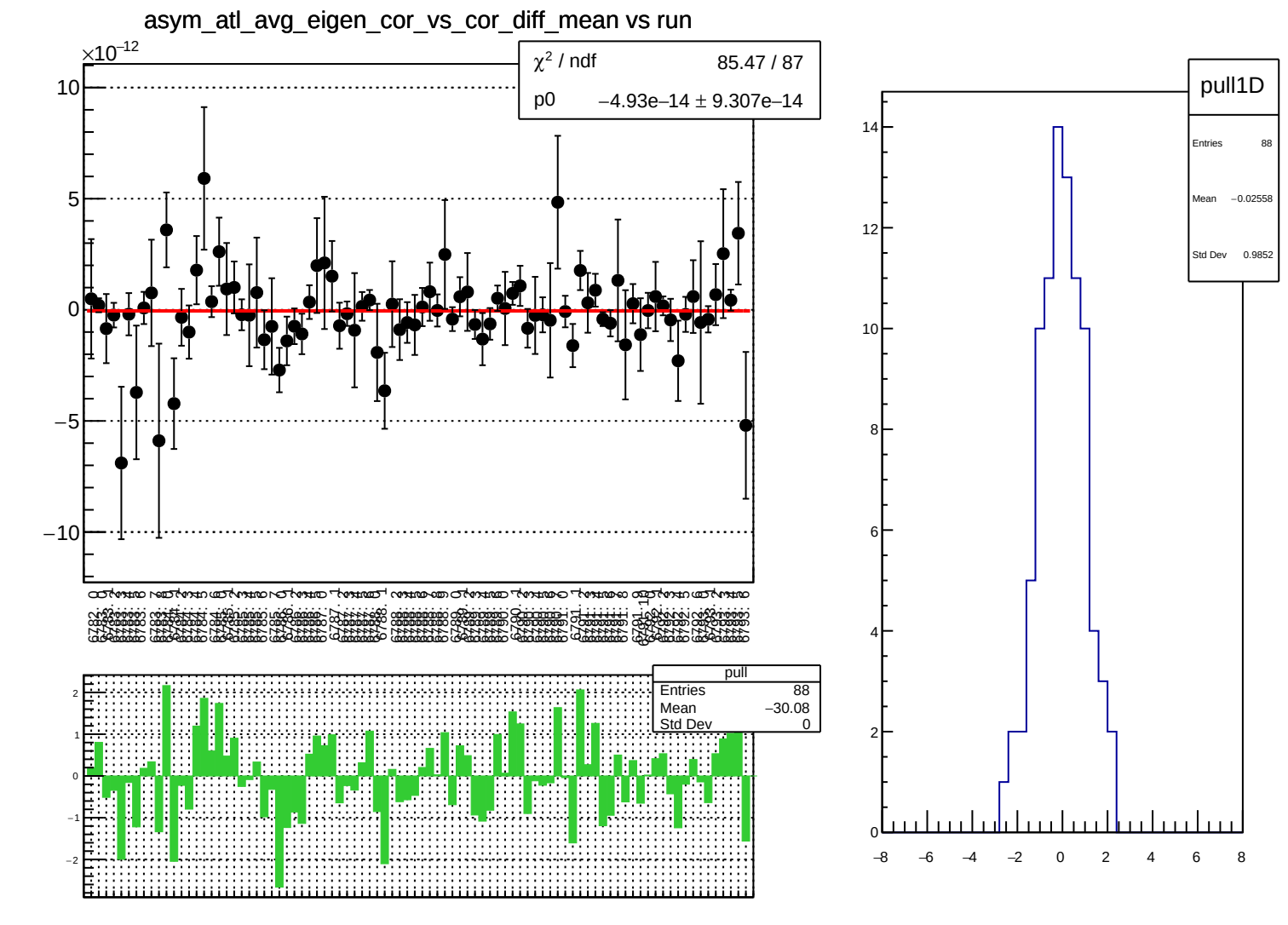

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8500 / 87
p0 0.004266 ± 3.325e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

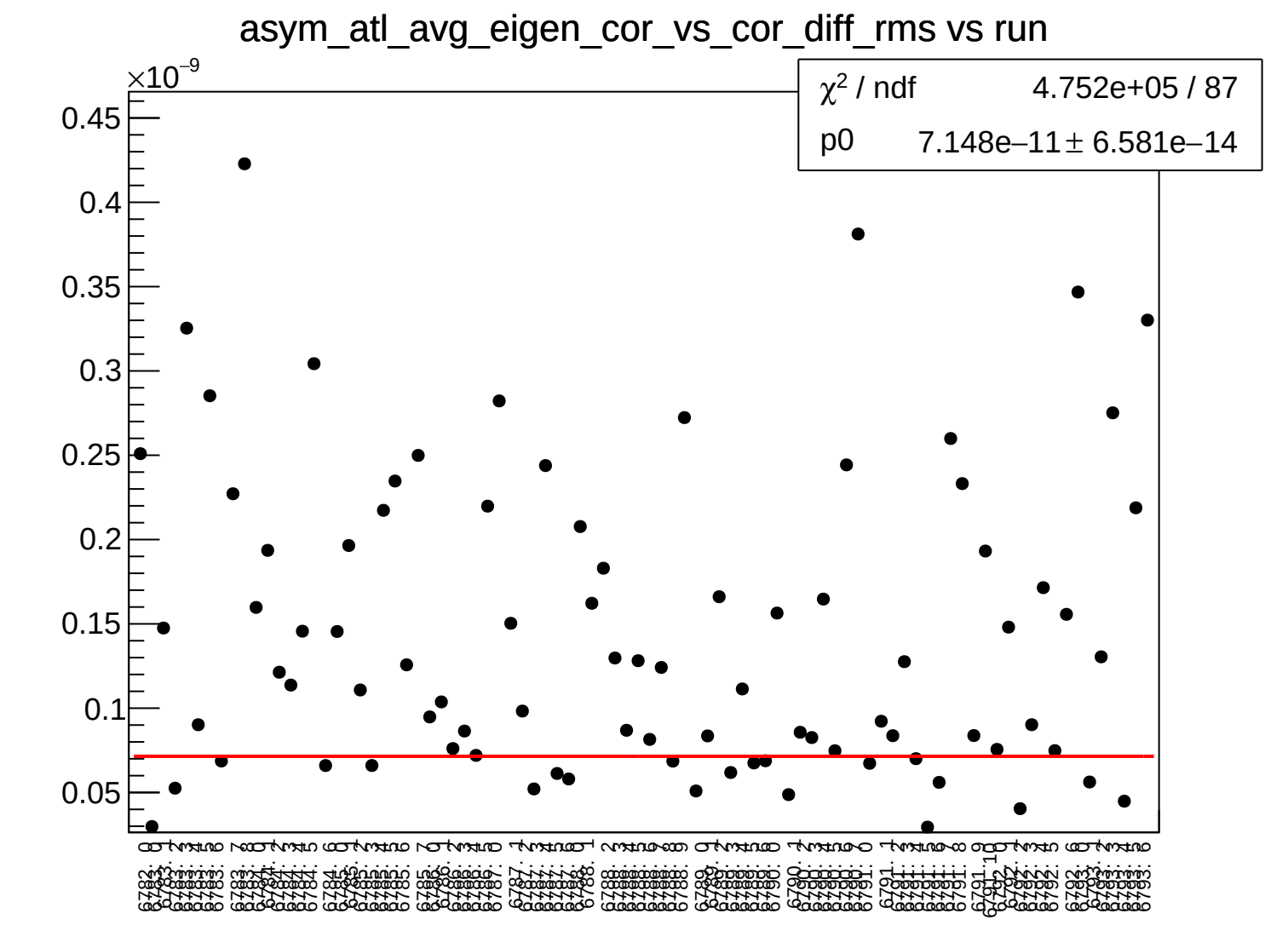

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5441± 0.3258
pull
Entries 88
Mean 2482
Std Dev 0
pull1D
Entries 88
Mean −0.001203
Std Dev 0.911

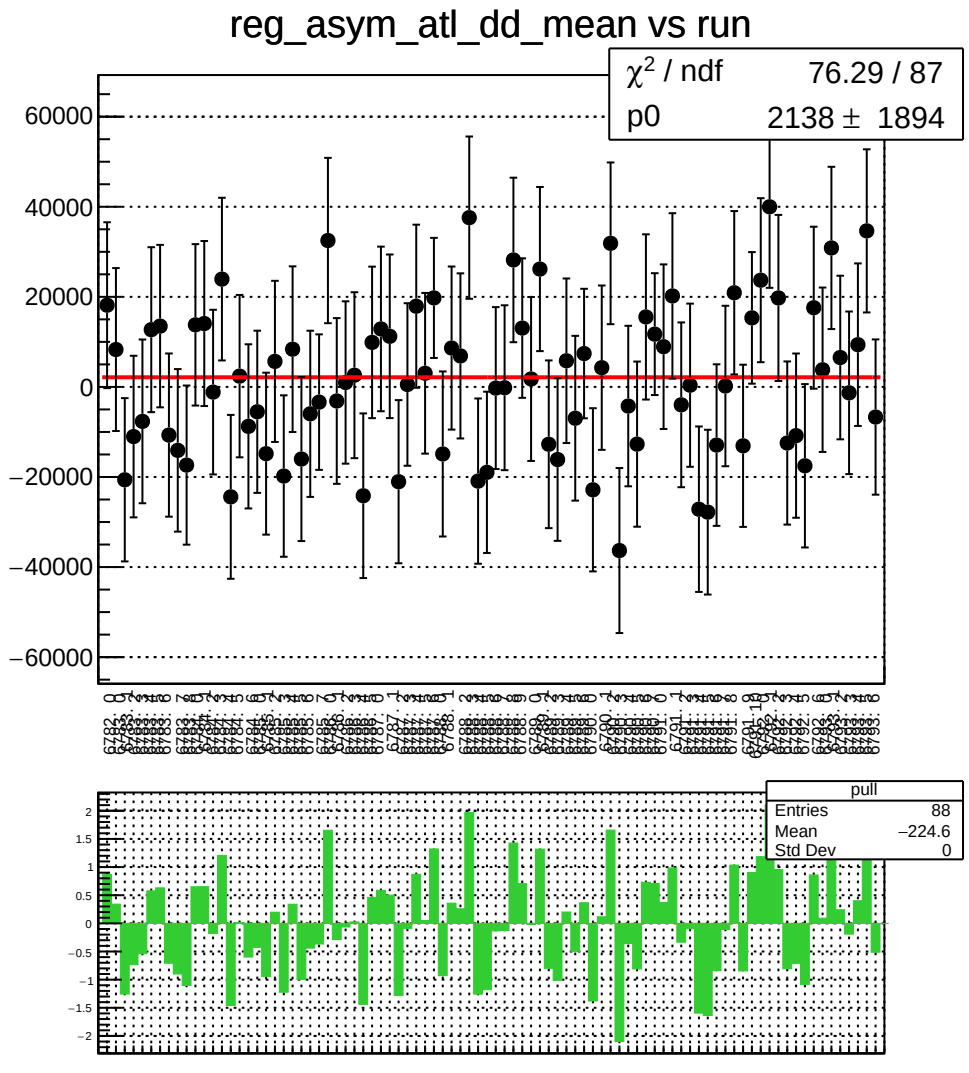

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.76e+04 / 87
p0 294.8 ± 0.2304
380
360
340
320
300
280
260
240
220
200

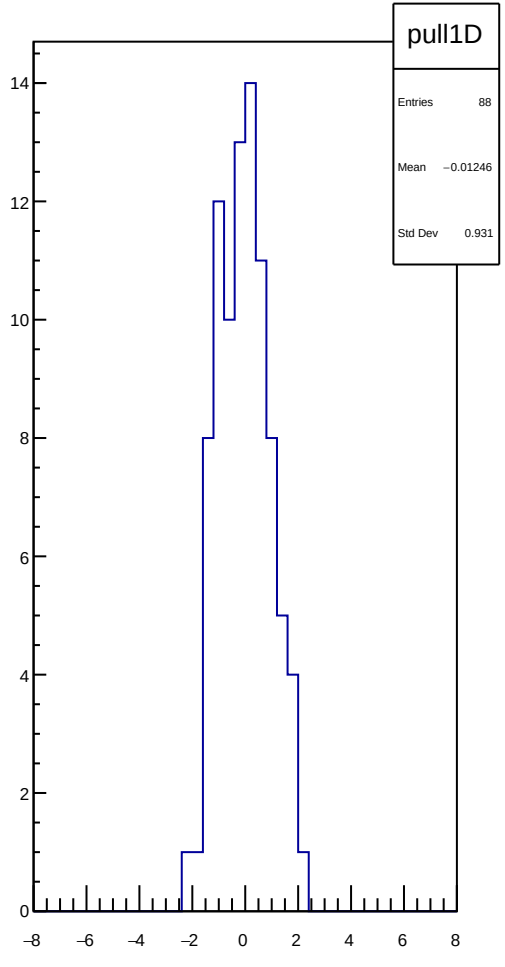

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5441± 0.3258
pull
Entries 88
Mean 2482
Std Dev 0
pull1D
Entries 88
Mean −0.001203
Std Dev 0.911

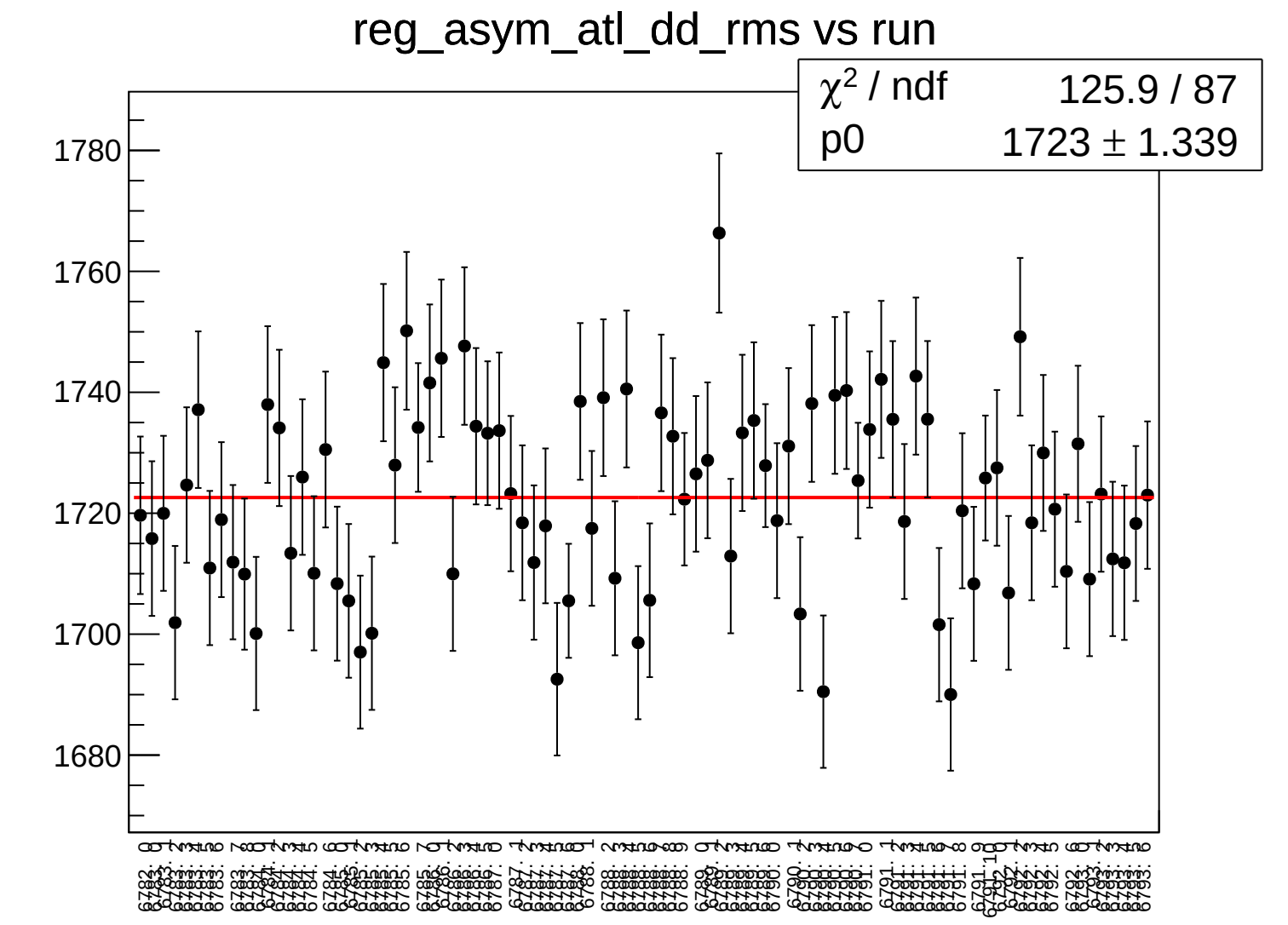

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.76e+04 / 87
p0 294.8 ± 0.2304
380
360
340
320
300
280
260
240
220
200

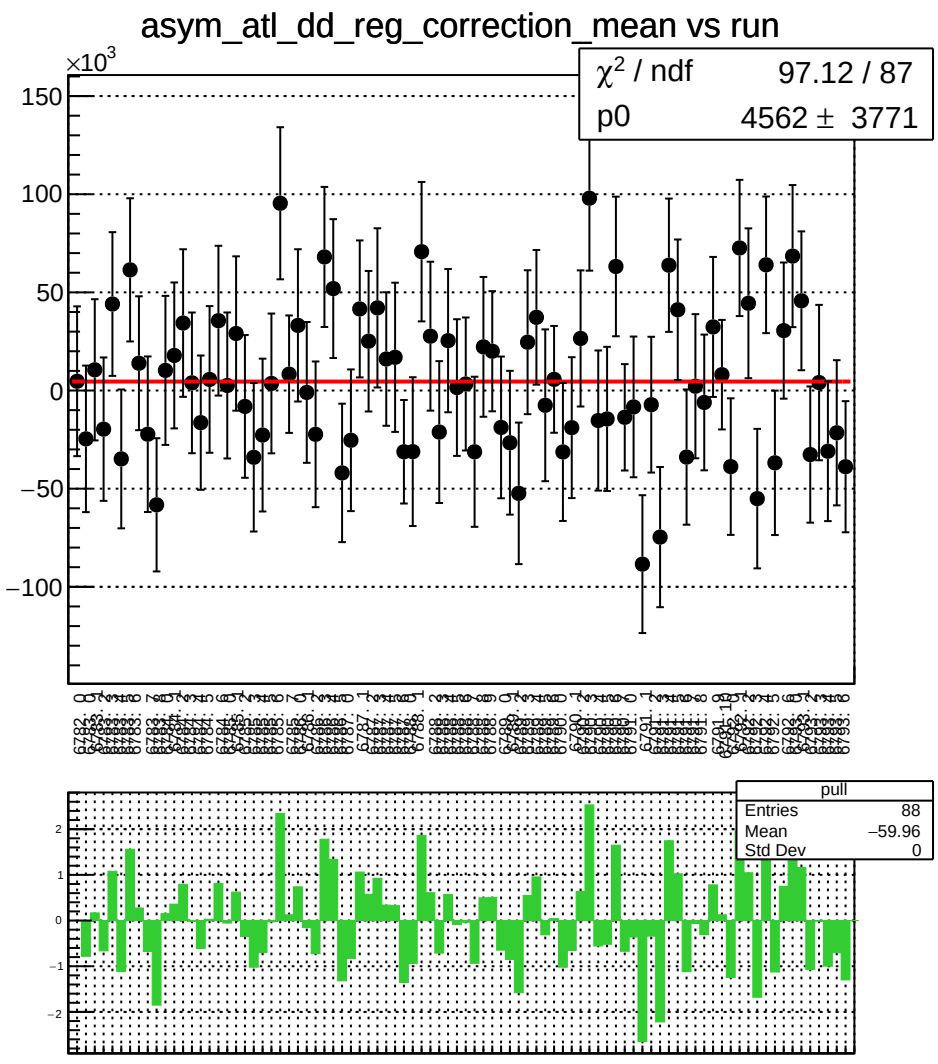

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.47 / 87
p0 −4.93e−14 ± 9.307e−14
pull
Entries 88
Mean −30.08
Std Dev 0
pull1D
Entries 88
Mean −0.02558
Std Dev 0.9852

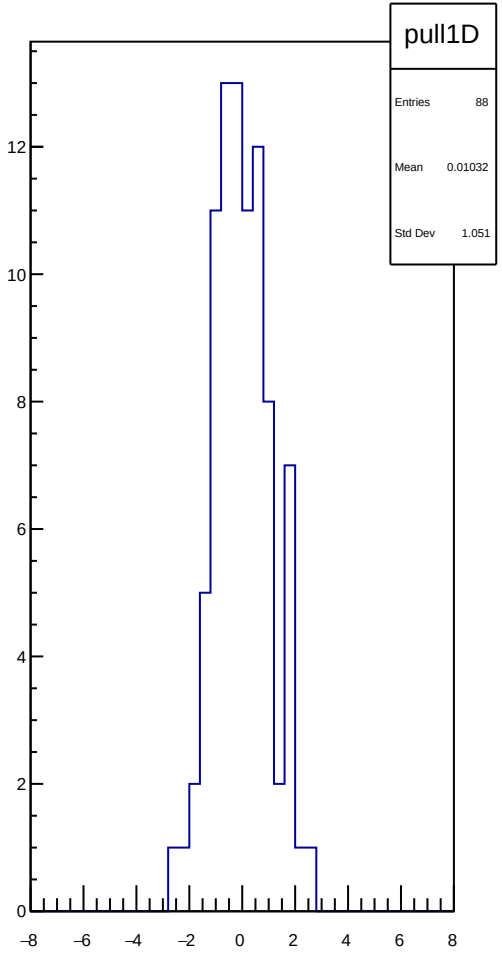

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.752e+05 / 87
p0 7.148e−11 ± 6.581e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

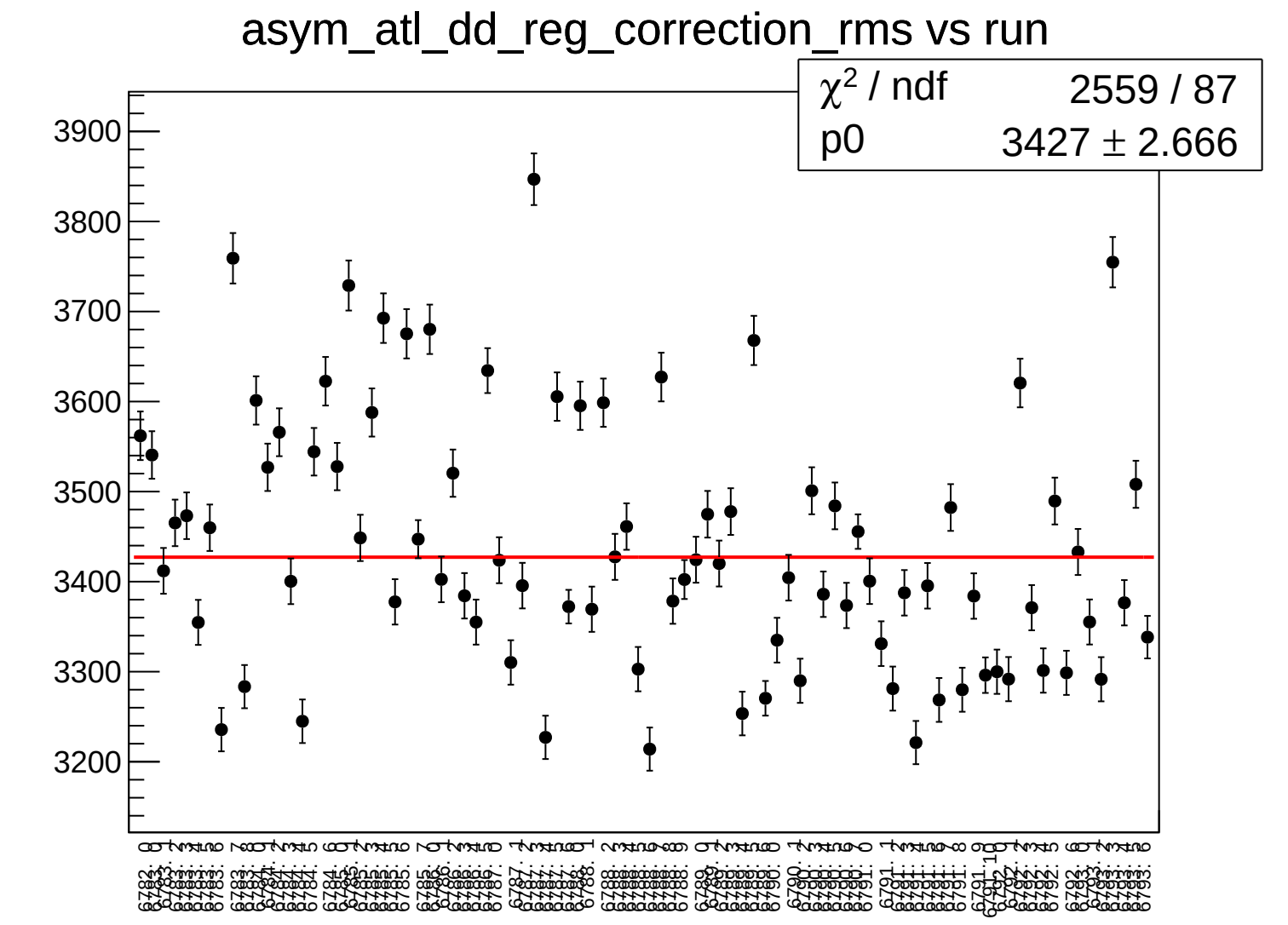

reg_asym_atl_dd_mean vs run
χ² / ndf 76.29 / 87
p0 2138 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −224.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

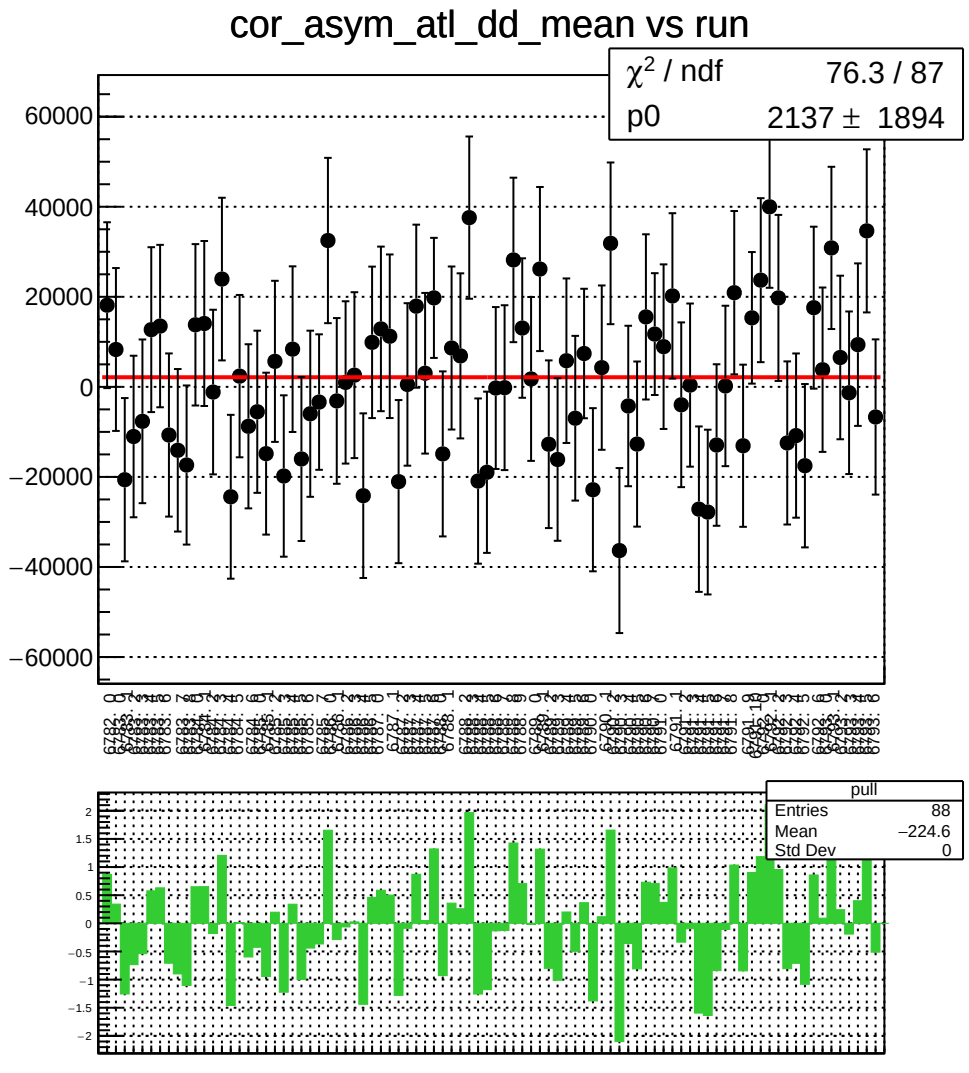

pull1D
Entries 88
Mean −0.01246
Std Dev 0.931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

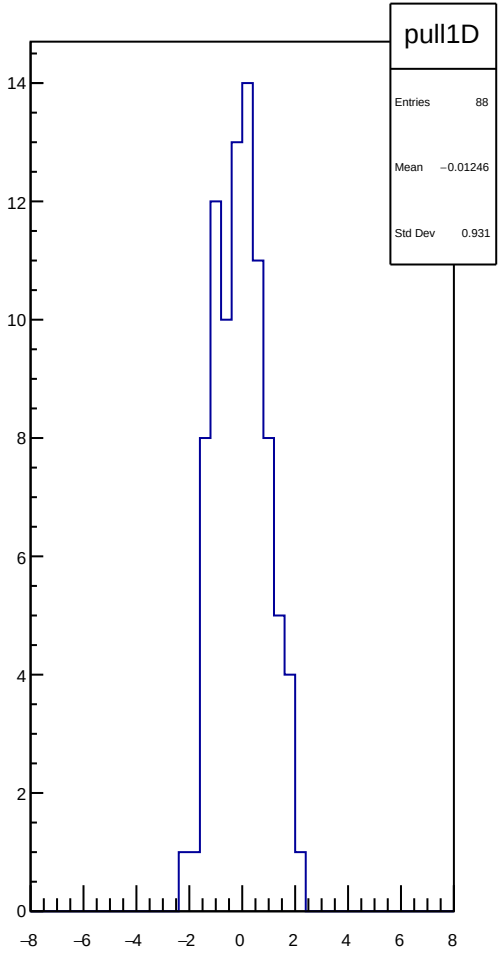

reg_asym_atl_dd_rms vs run
χ^2 / ndf 125.9 / 87
p0 1723 ± 1.339
1780
1760
1740
1720
1700
1680

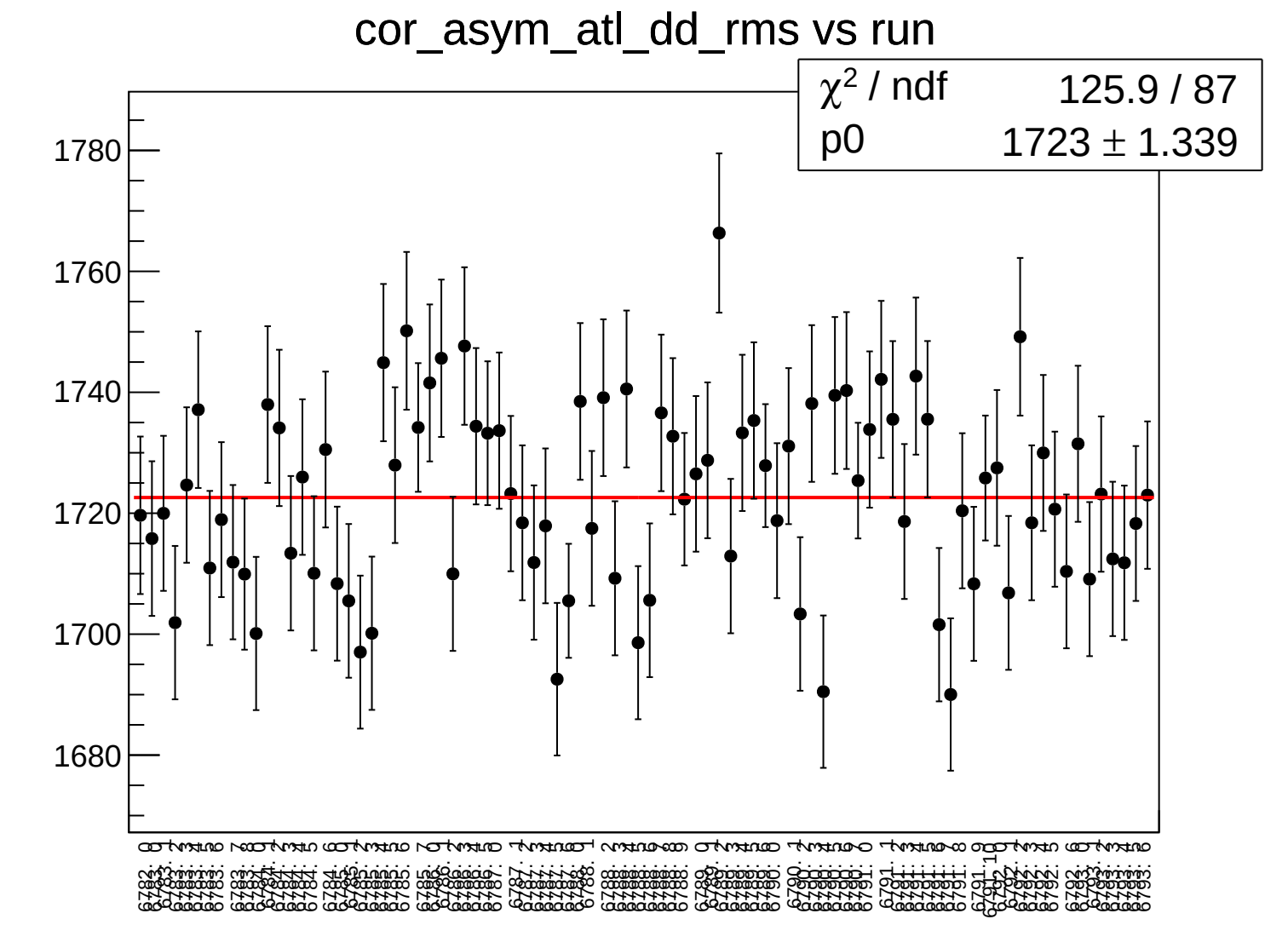

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.12 / 87
p0 4562 ± 3771
150
100
50
0
−50
−100
pull
Entries 88
Mean −59.96
Std Dev 0
2
1
0
−1
−2

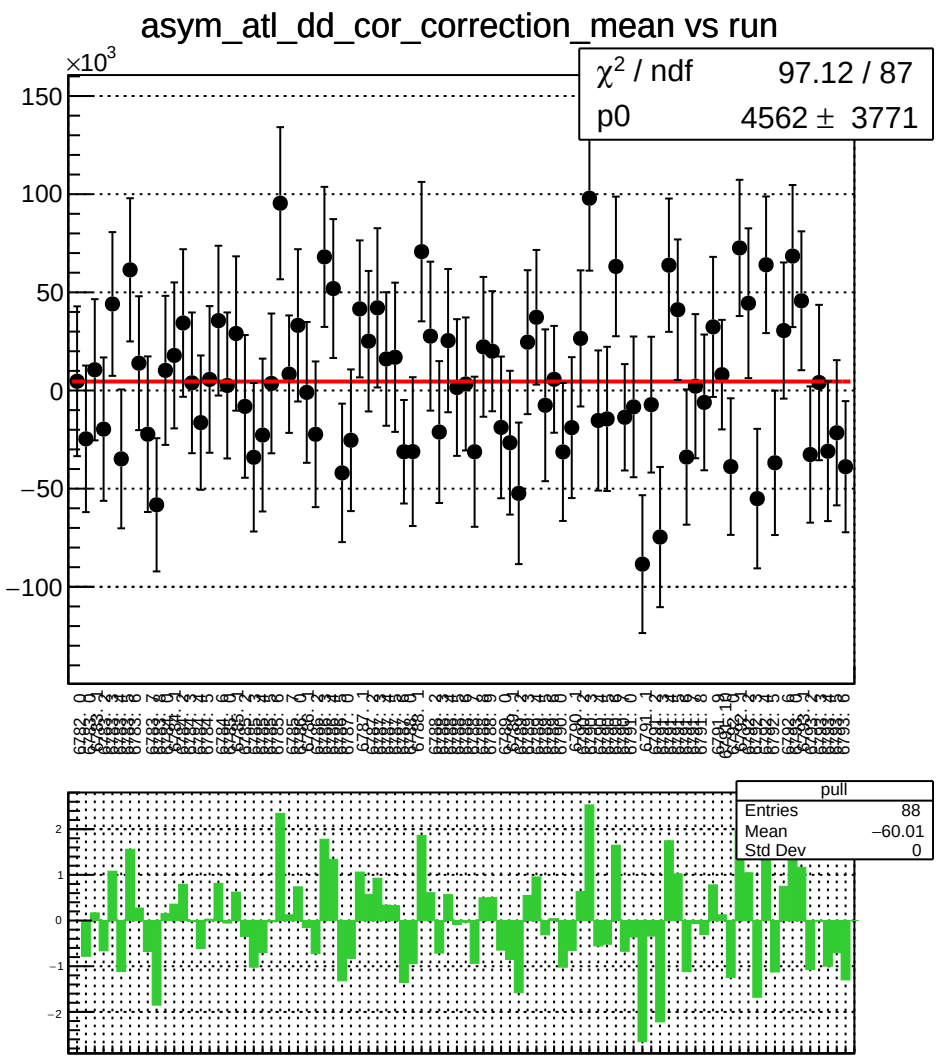

pull1D
Entries 88
Mean 0.01032
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

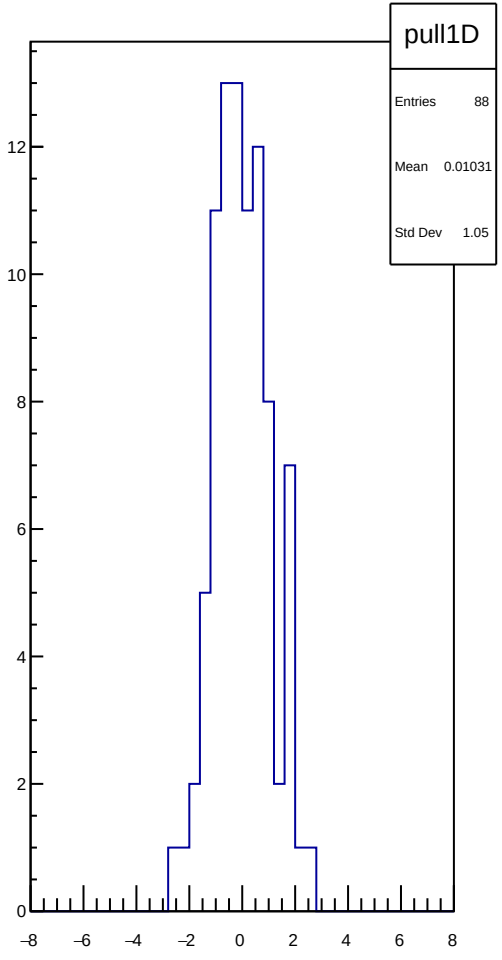

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 2559 / 87
p0 3427 ± 2.666
3900
3800
3700
3600
3500
3400
3300
3200

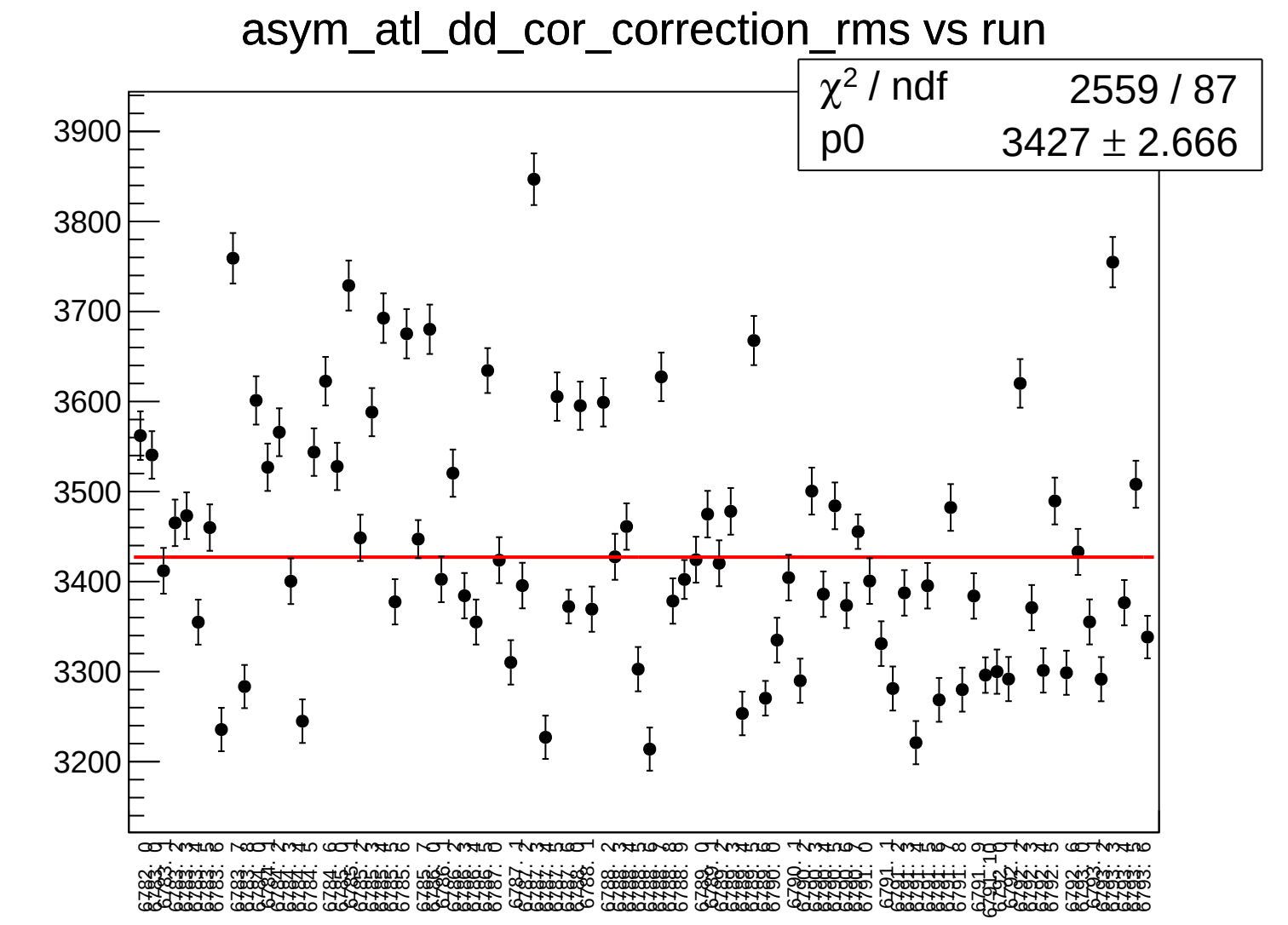

cor_asym_atl_dd_mean vs run
χ² / ndf 76.3 / 87
p0 2137 ± 1894
pull
Entries 88
Mean −224.6
Std Dev 0

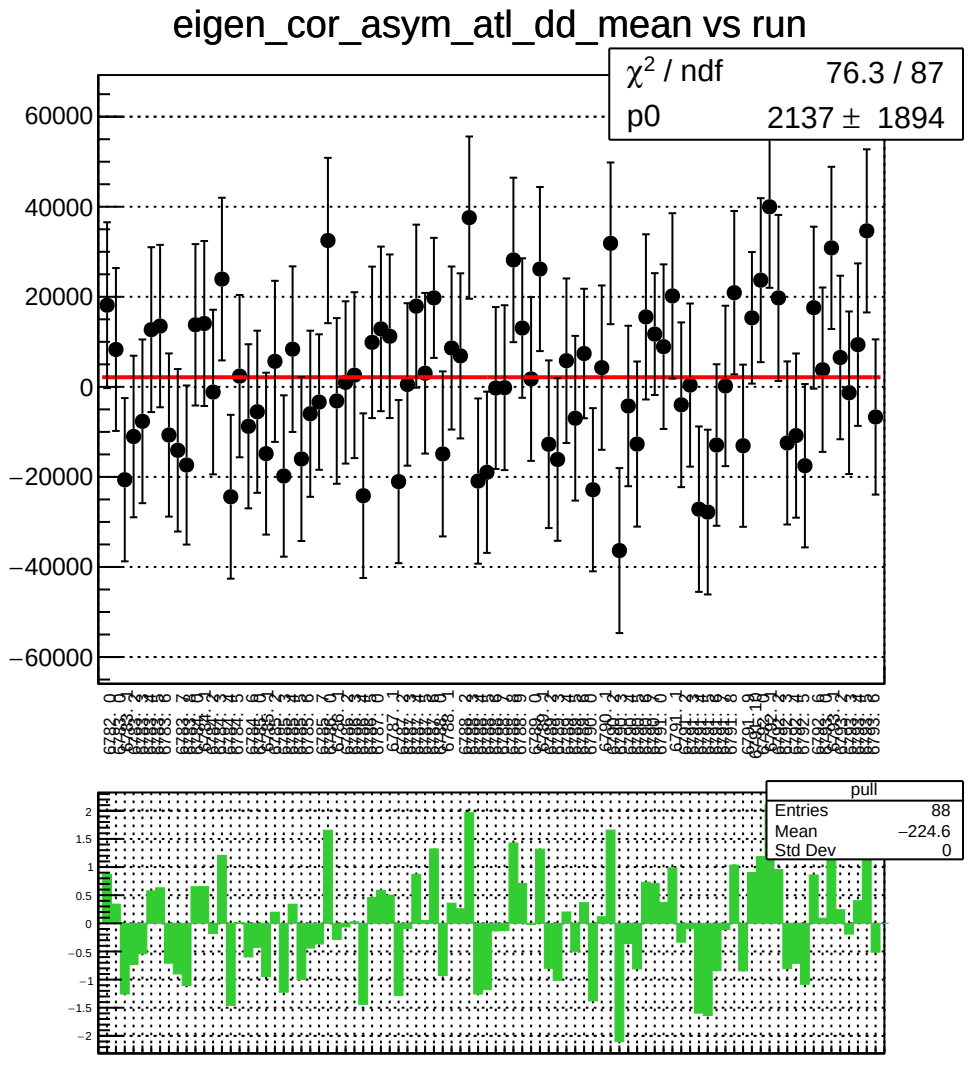

pull1D
Entries 88
Mean −0.01246
Std Dev 0.931

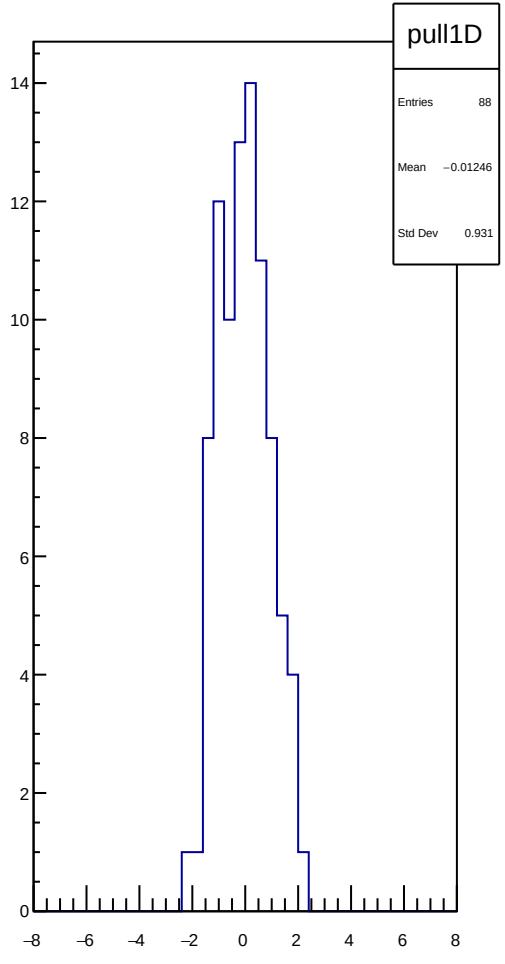

cor_asym_atl_dd_rms vs run
χ^2 / ndf 125.9 / 87
p0 1723 ± 1.339
1780
1760
1740
1720
1700
1680

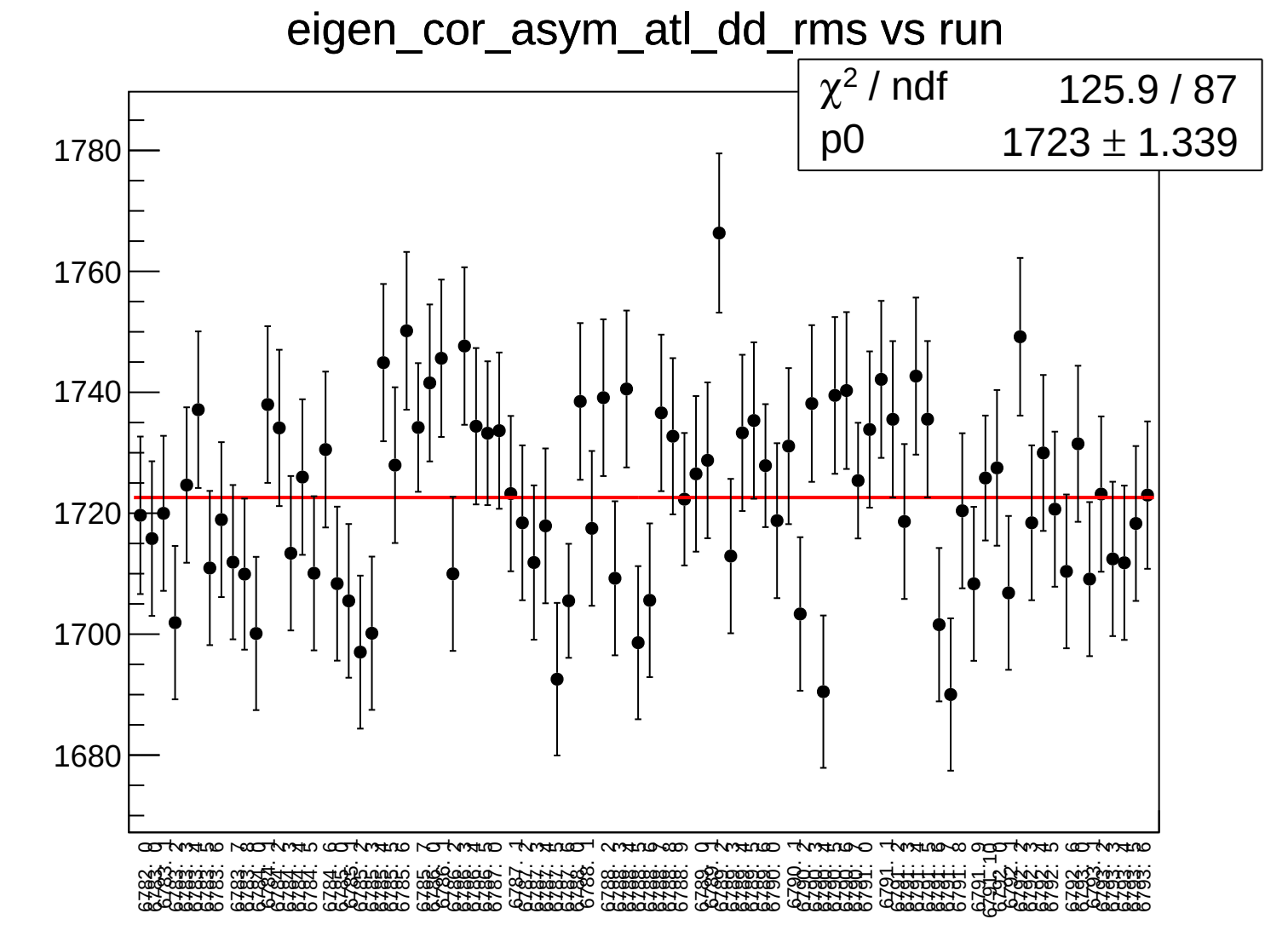

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.12 / 87
p0 4562 ± 3771
150
100
50
0
−50
−100
pull
Entries 88
Mean −60.01
Std Dev 0
2
1
0
−1
−2

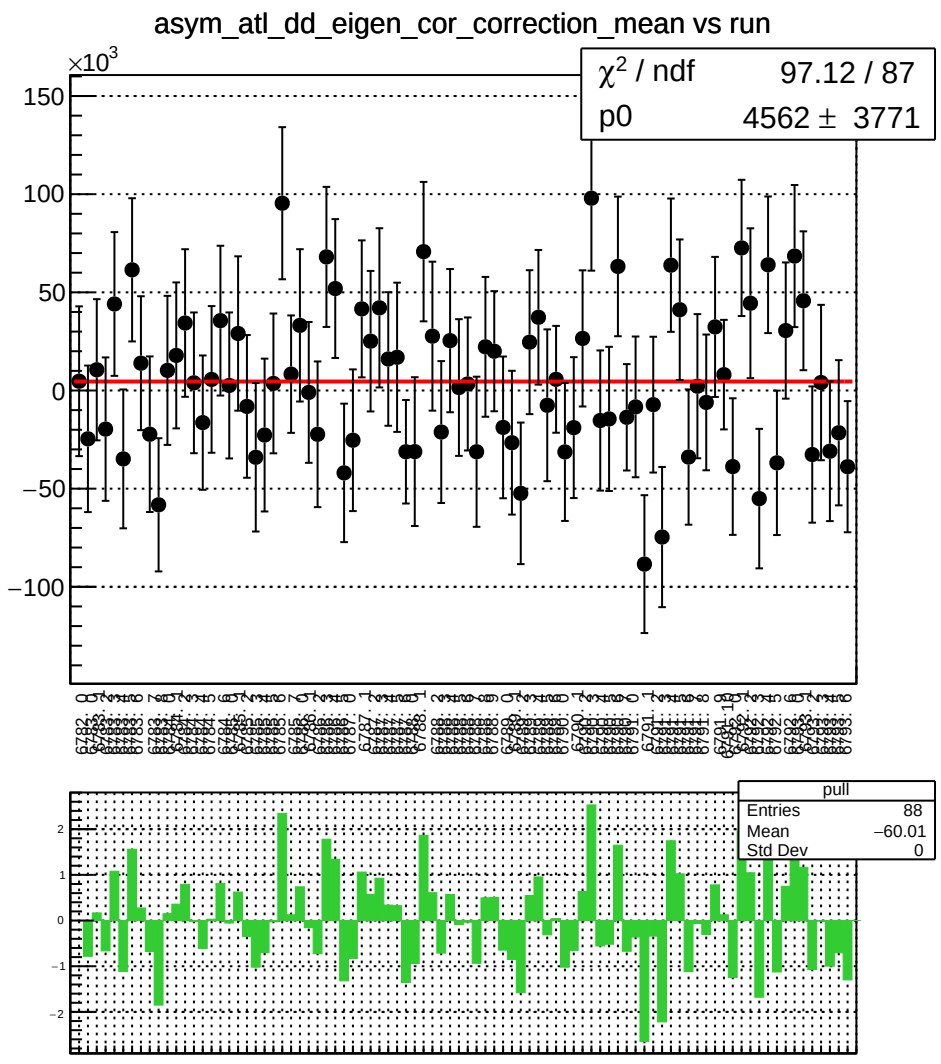

pull1D
Entries 88
Mean 0.01031
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

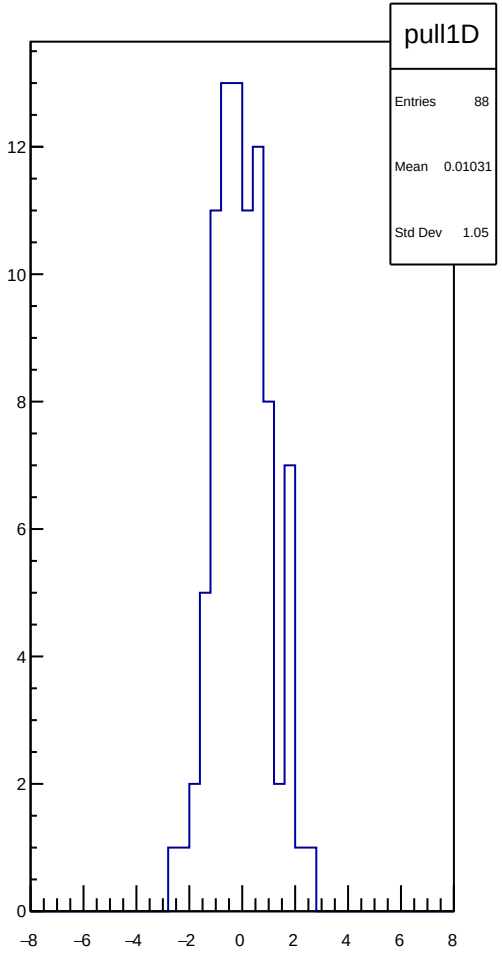

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 2559 / 87
p0 3427 ± 2.666
3900
3800
3700
3600
3500
3400
3300
3200

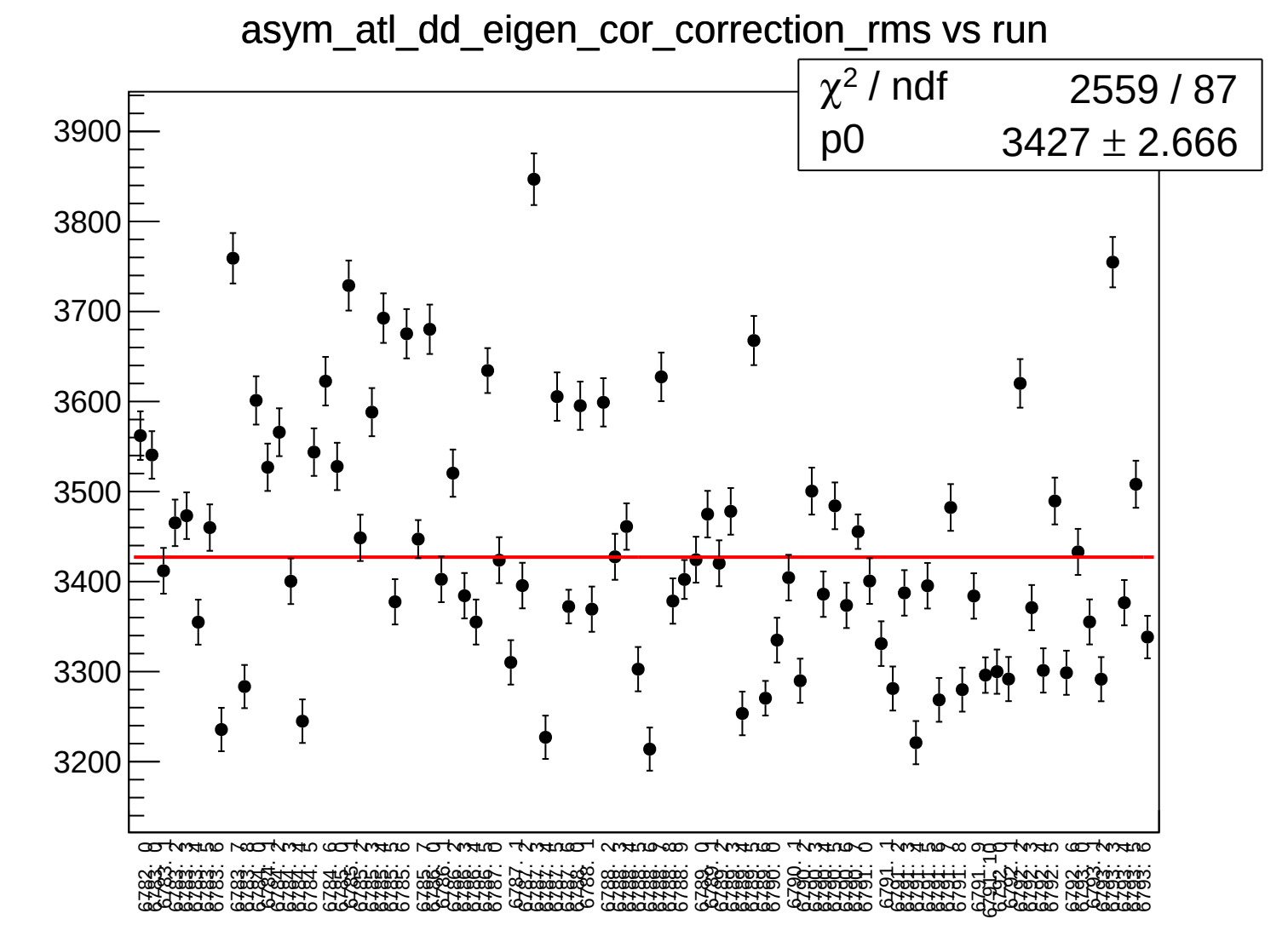

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 76.3 / 87
p0 2137 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −224.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

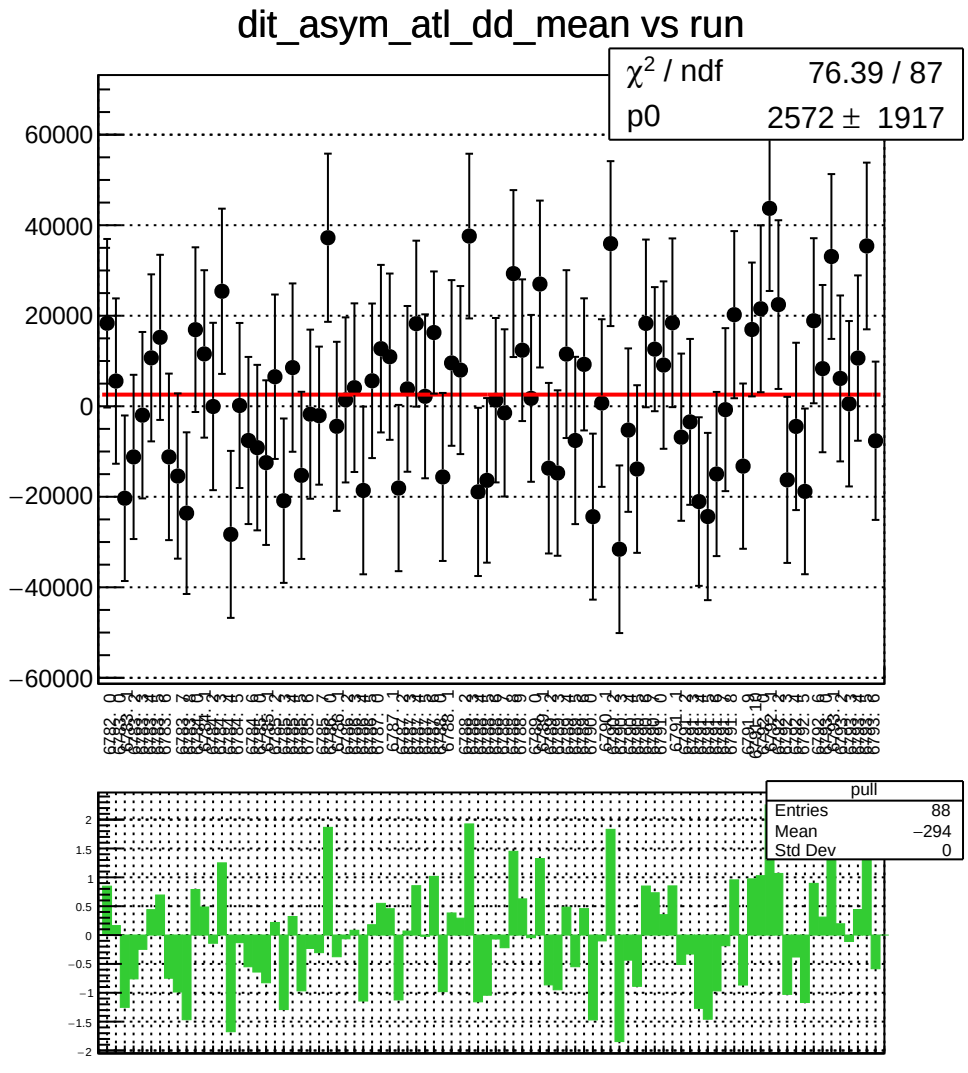

pull1D
Entries 88
Mean −0.01246
Std Dev 0.931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

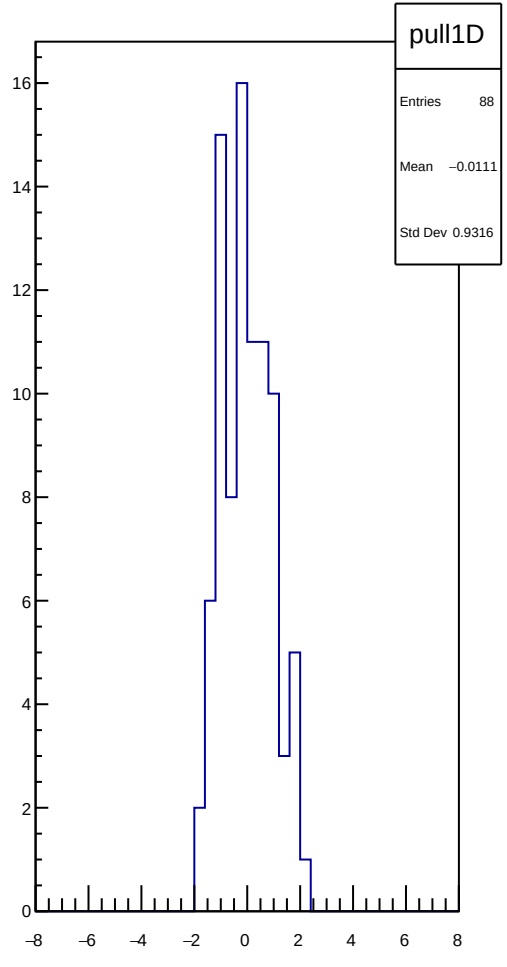

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 125.9 / 87
p0 1723 ± 1.339
1780
1760
1740
1720
1700
1680

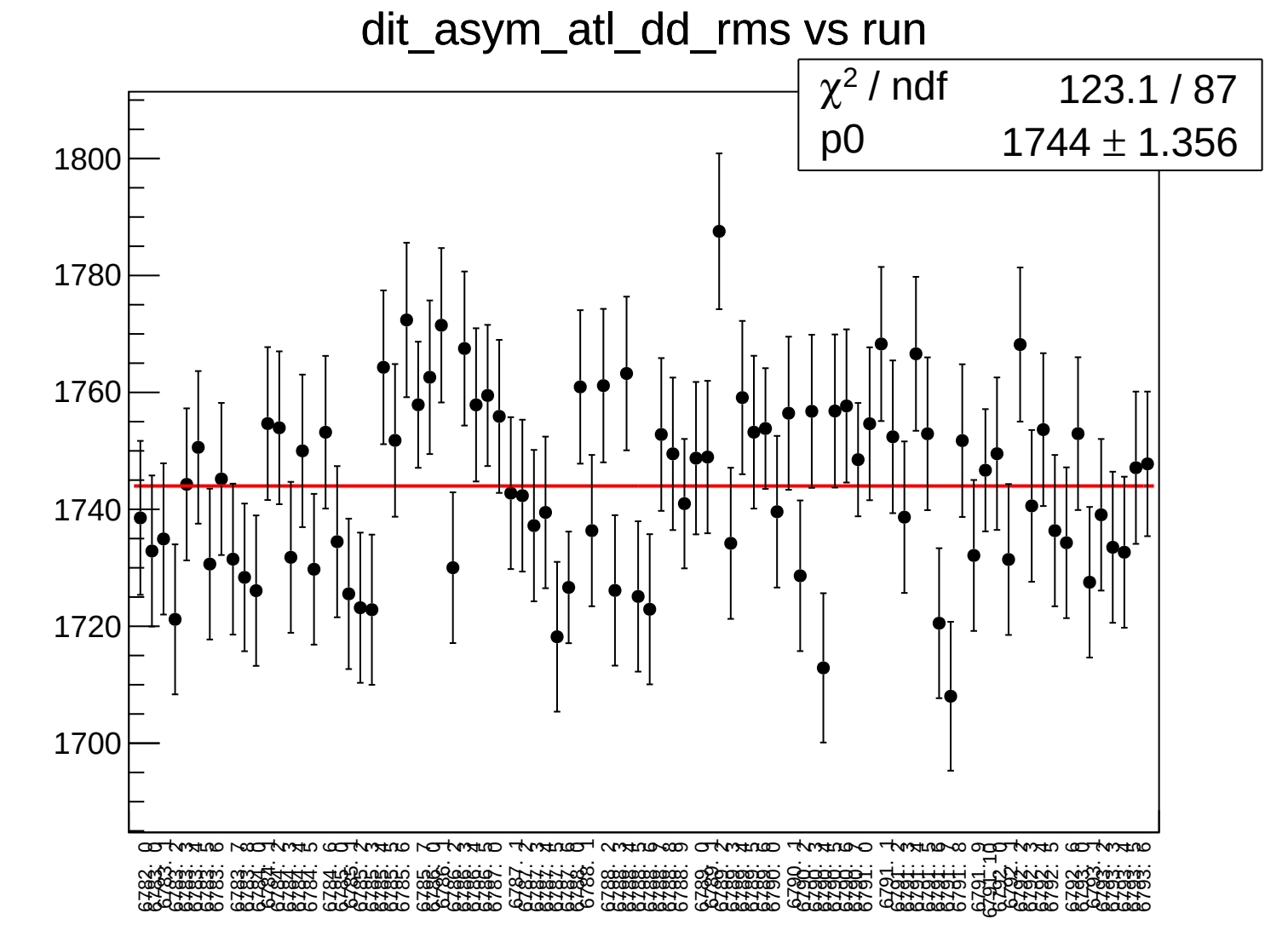

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.12 / 87
p0 4562 ± 3771
150
100
50
0
−50
−100
pull
Entries 88
Mean −60.01
Std Dev 0
2
1
0
−1
−2

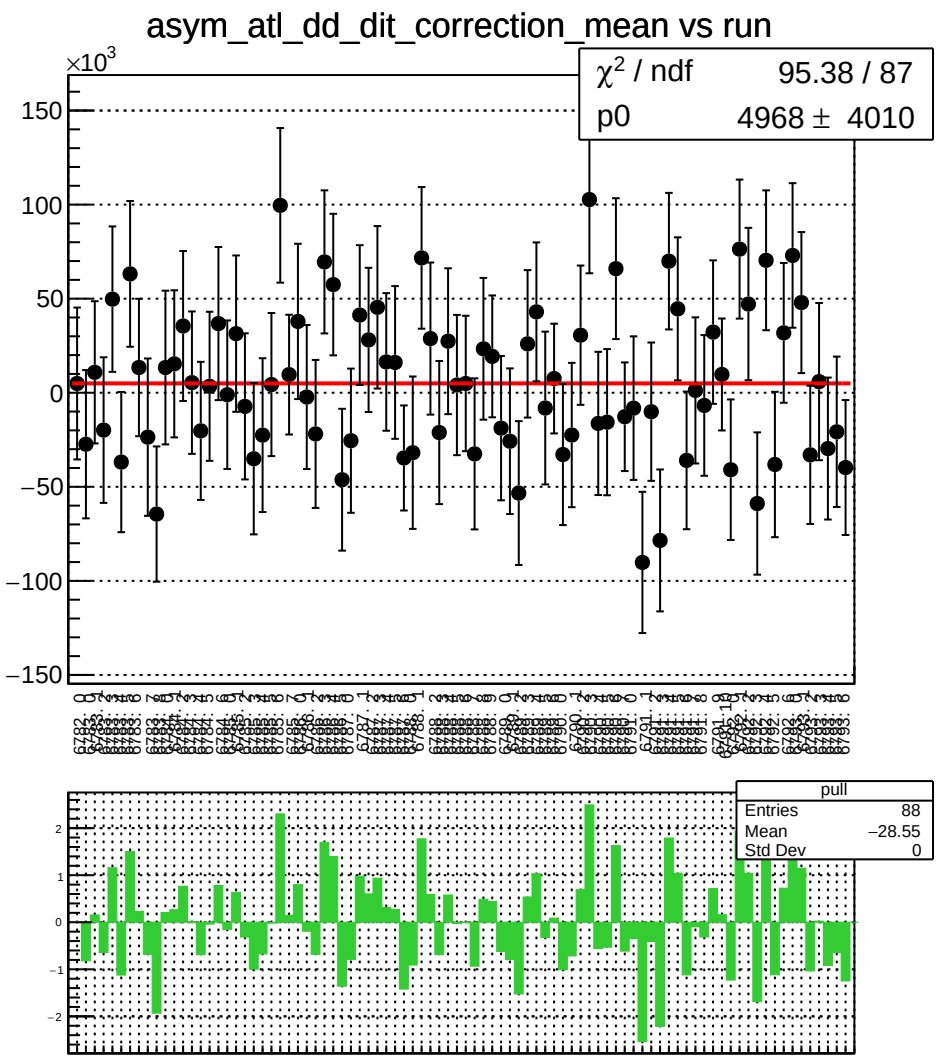

pull1D
Entries 88
Mean 0.01031
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

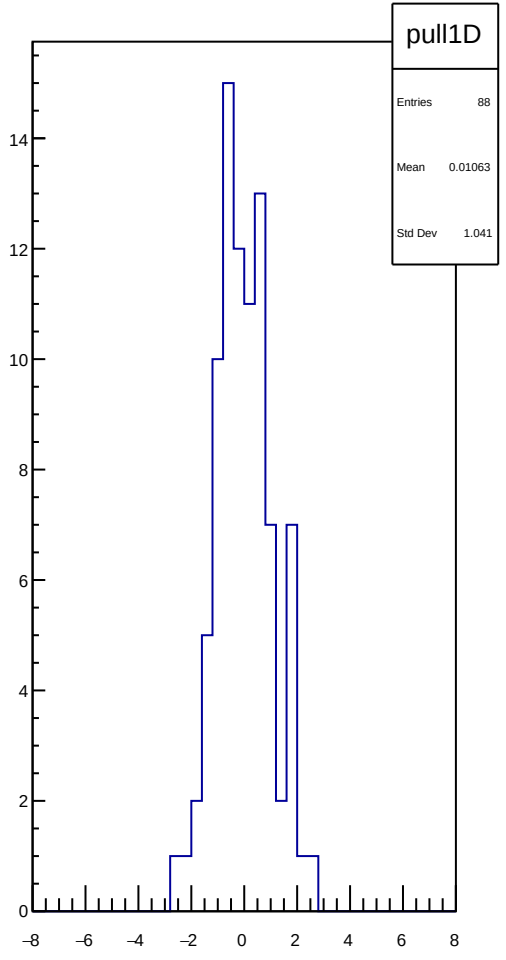

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2559 / 87
p0 3427 ± 2.666
3900
3800
3700
3600
3500
3400
3300
3200

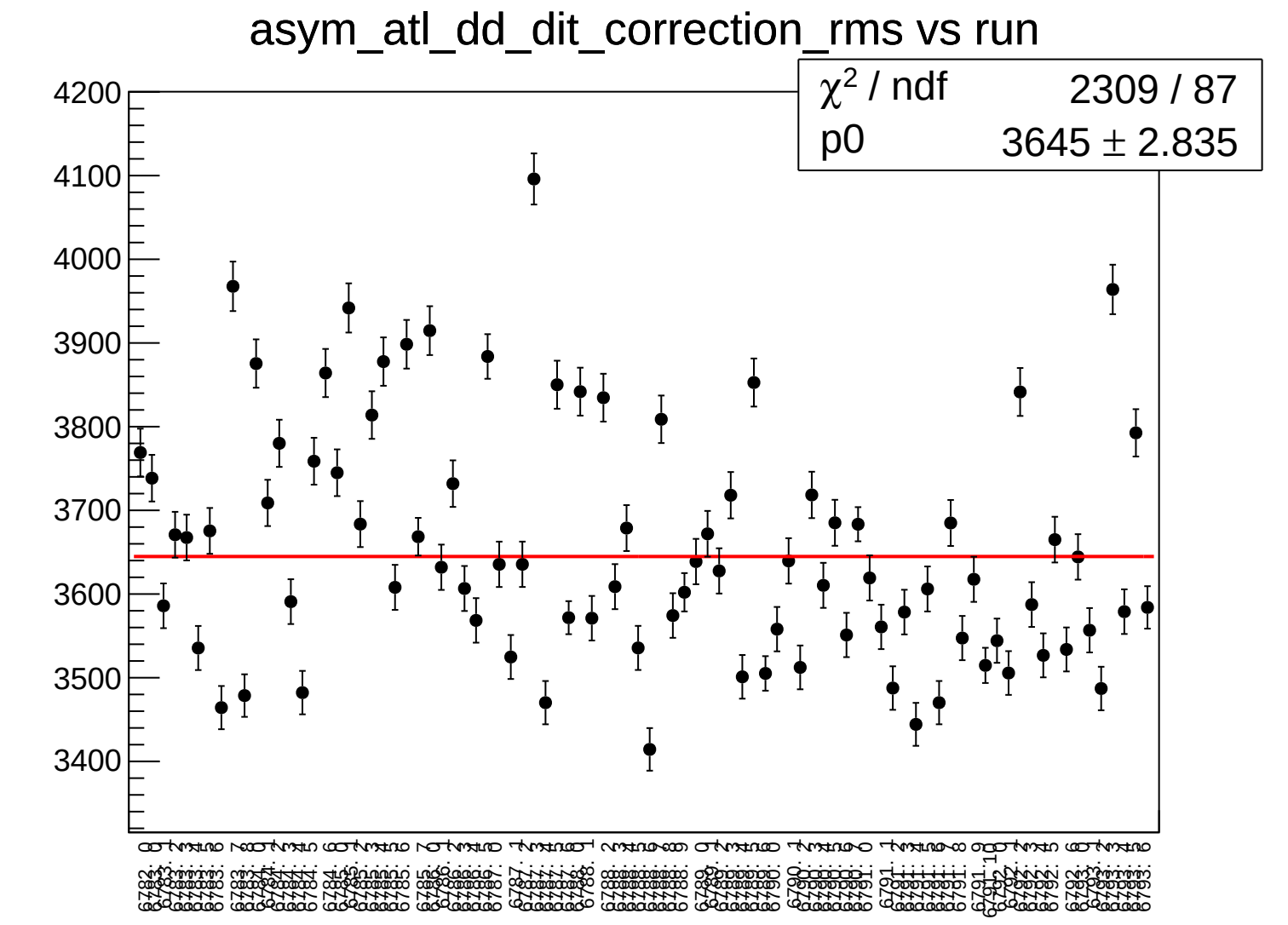

dit_asym_atl_dd_mean vs run
χ² / ndf 76.39 / 87
p0 2572 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −294
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

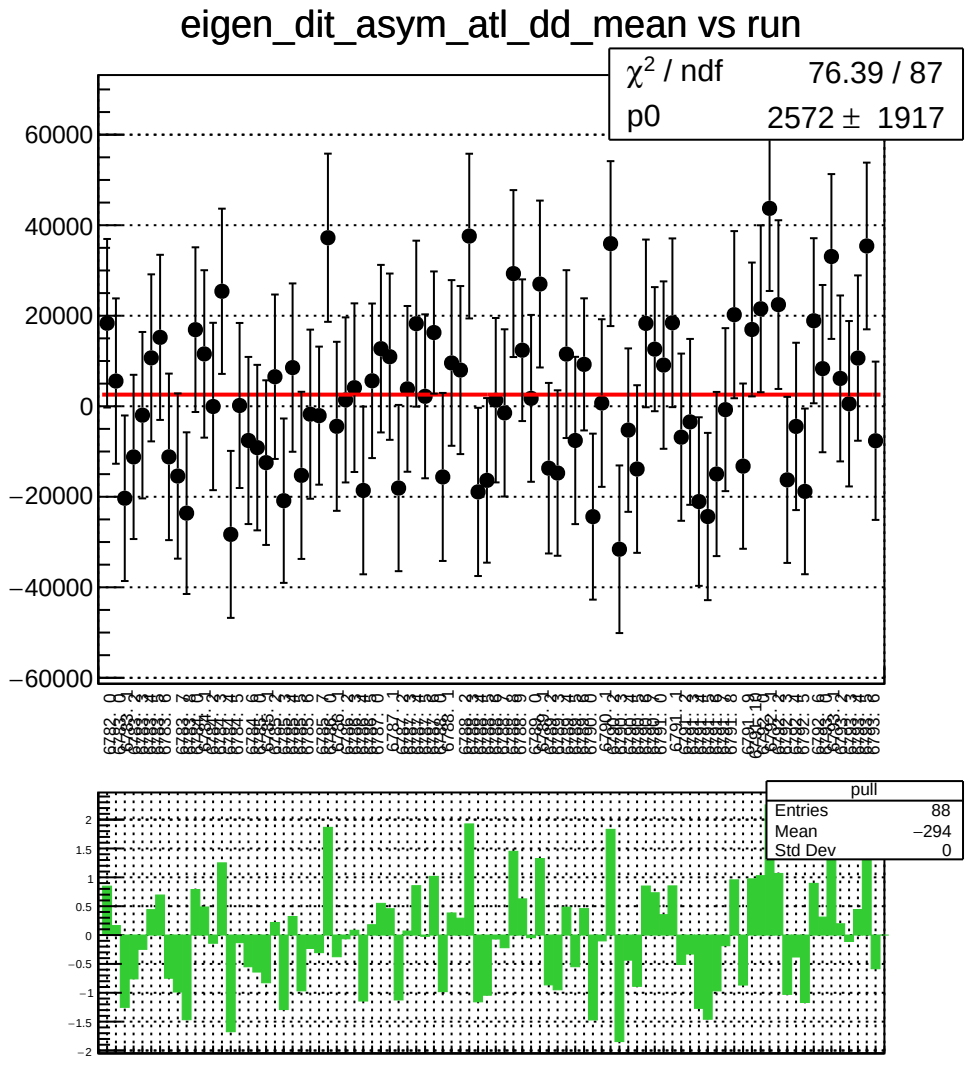

pull1D
Entries 88
Mean −0.0111
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

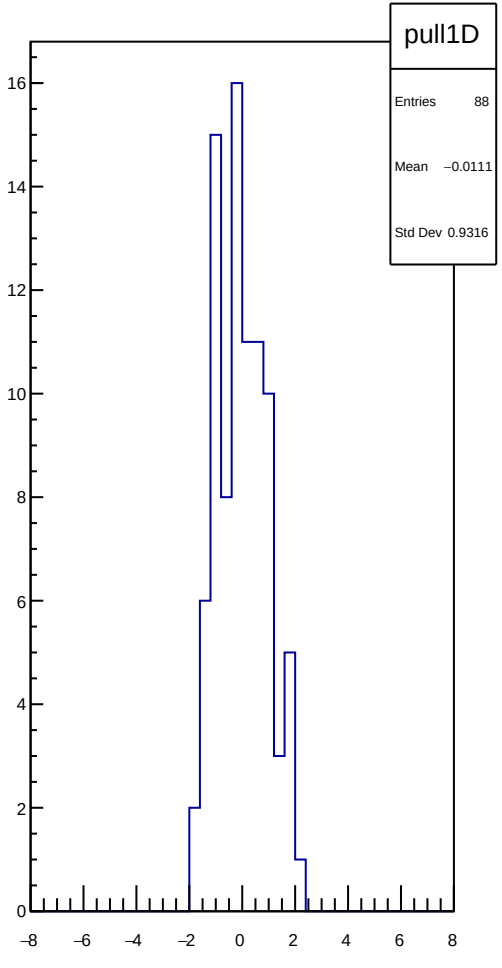

dit_asym_atl_dd_rms vs run
χ^2 / ndf 123.1 / 87
p0 1744 ± 1.356
1800
1780
1760
1740
1720
1700

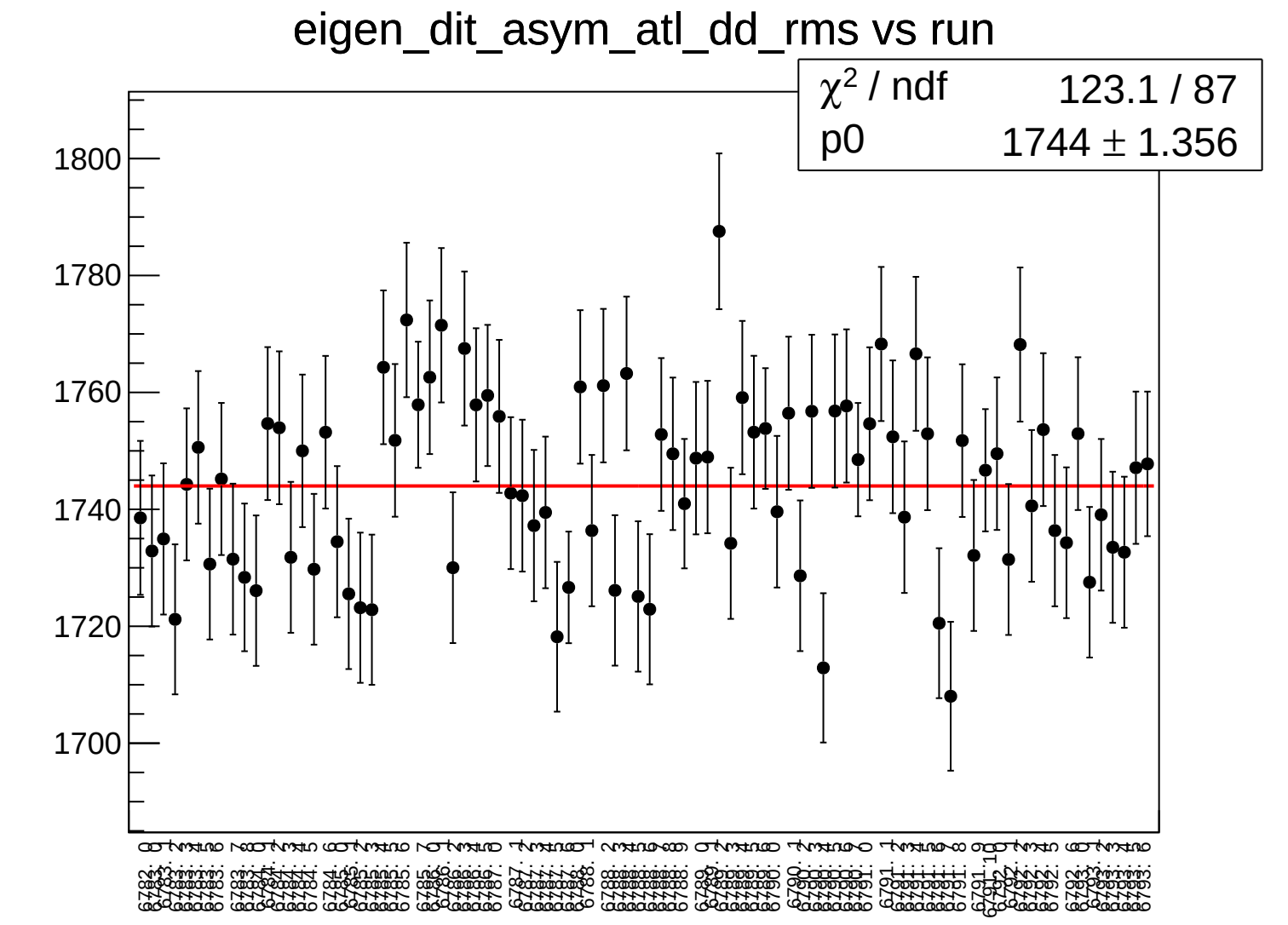

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.38 / 87
p0 4968 ± 4010
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −28.55
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01063
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

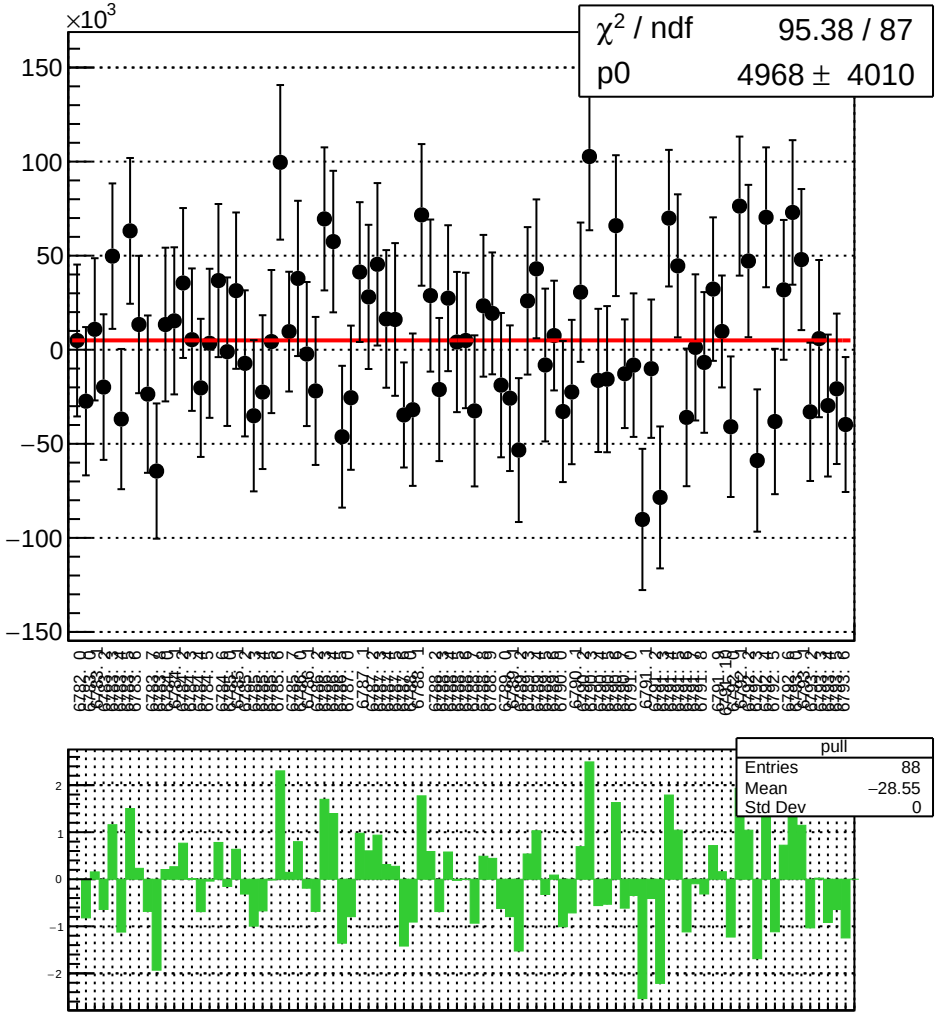

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 2309 / 87
p0 3645 ± 2.835
4200
4100
4000
3900
3800
3700
3600
3500
3400

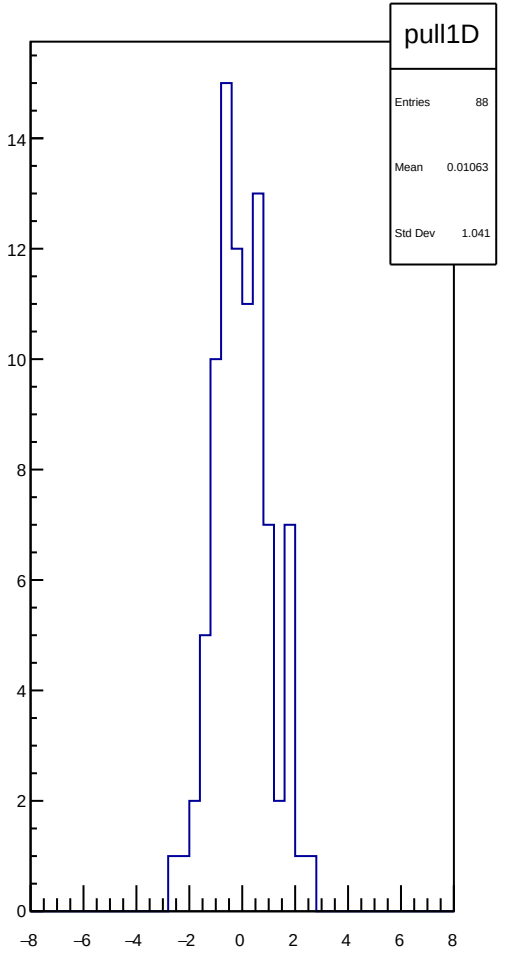

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 76.39 / 87
p0 2572 ± 1917
pull
Entries 88
Mean −294
Std Dev 0

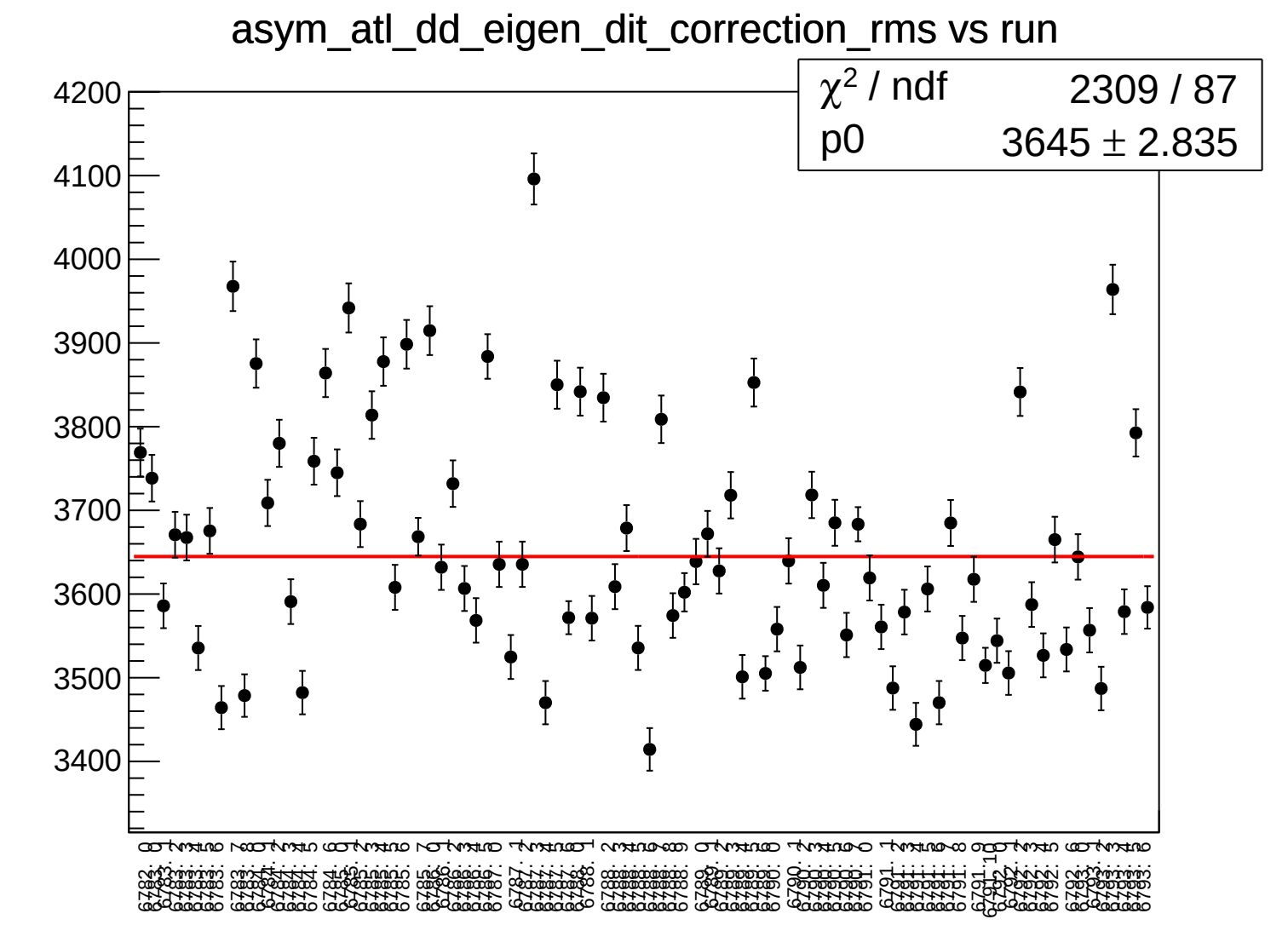

pull1D
Entries 88
Mean −0.0111
Std Dev 0.9316

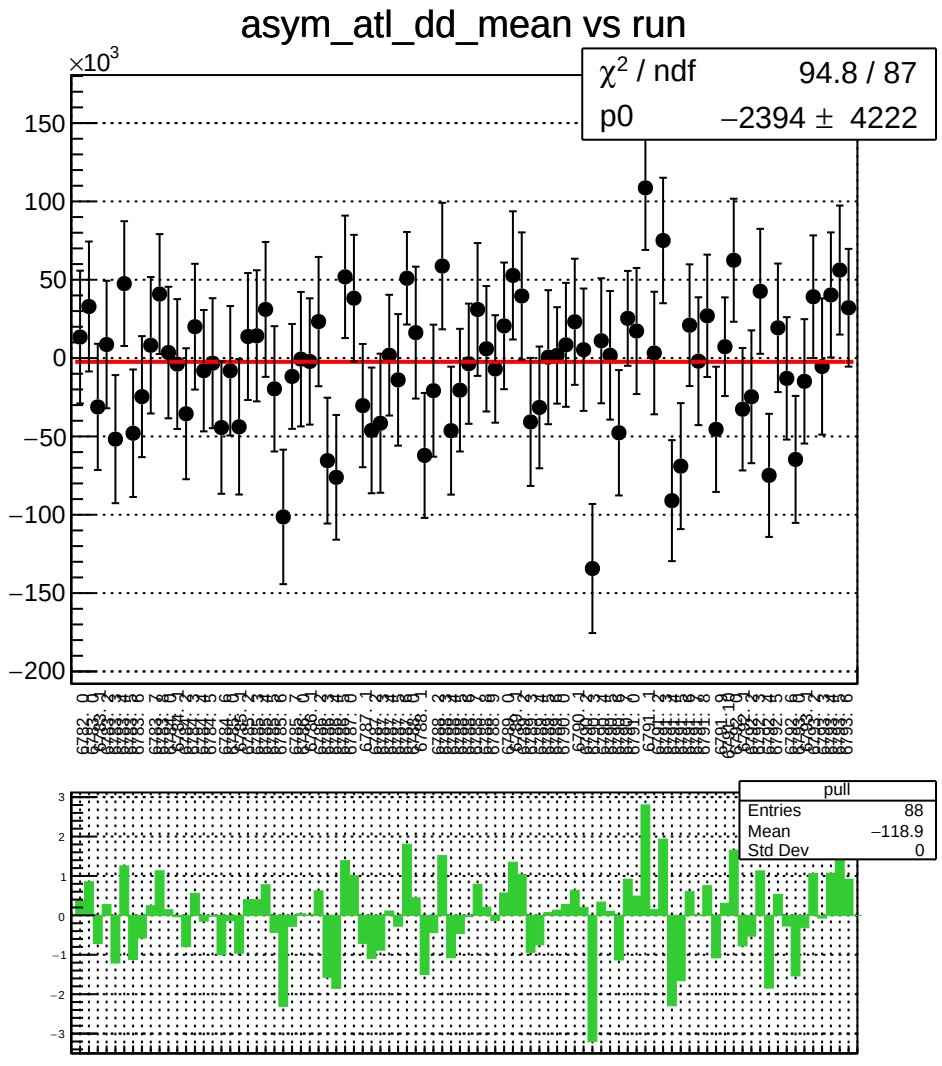

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 123.1 / 87
p0 1744 ± 1.356
1800
1780
1760
1740
1720
1700

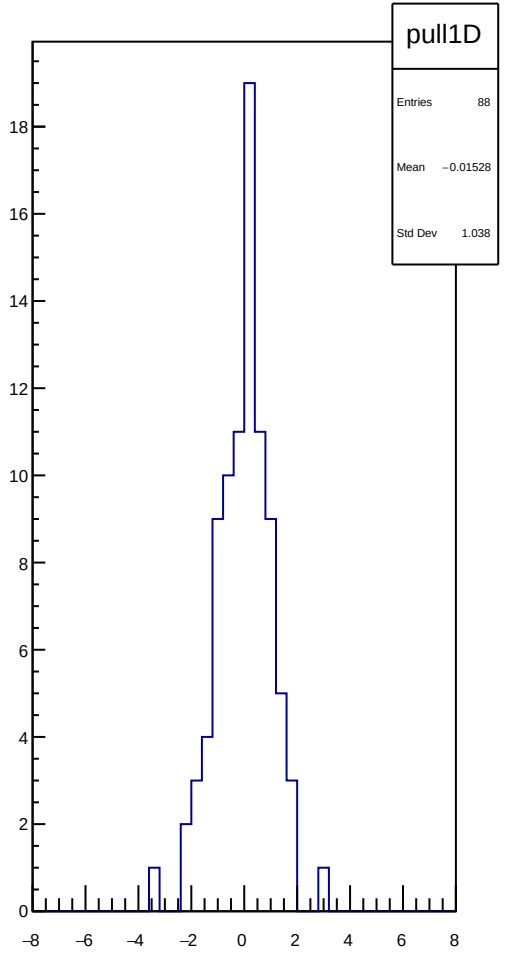
asym_atl_dd_eigen_dit_correction_mean vs run

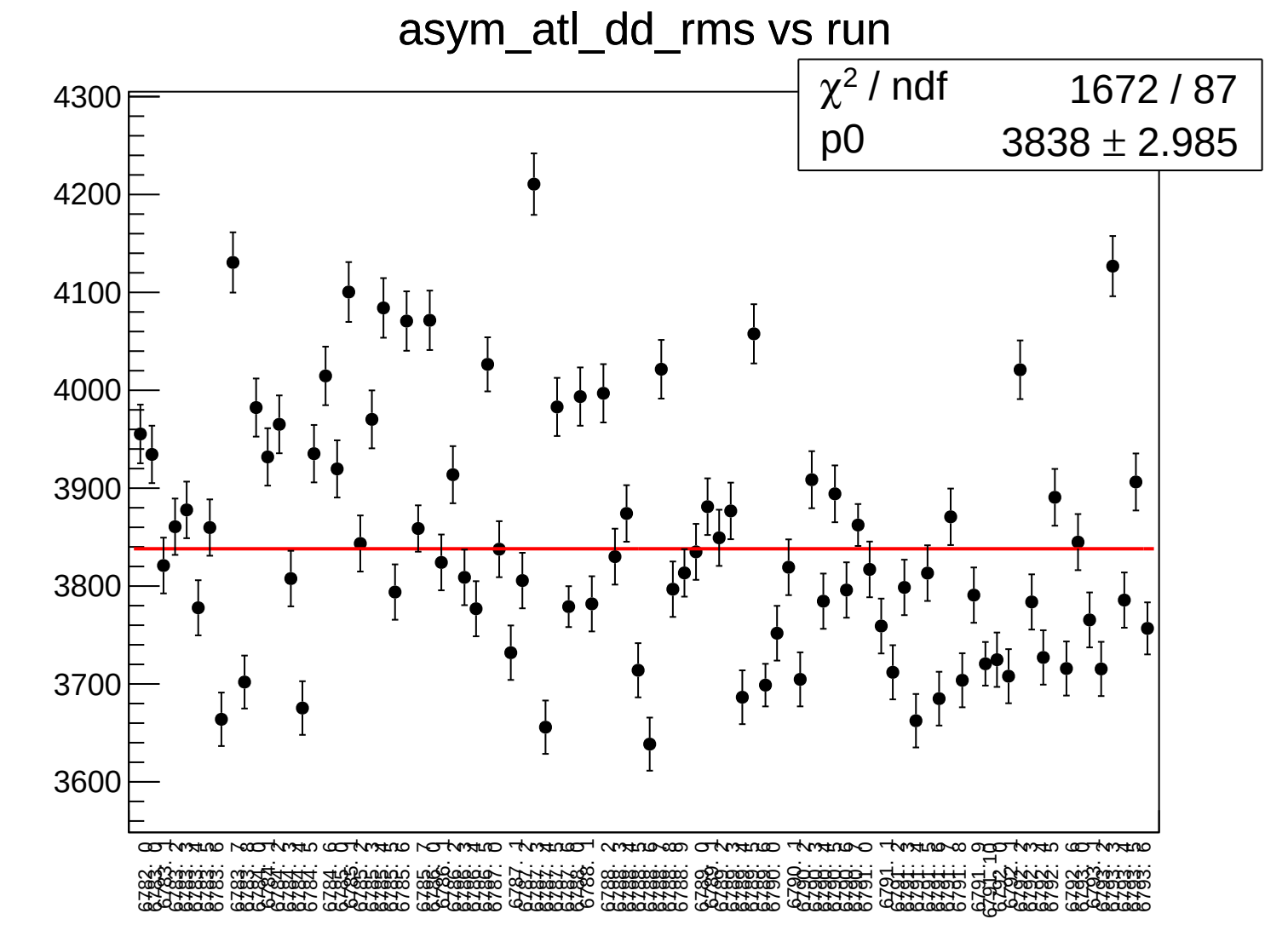


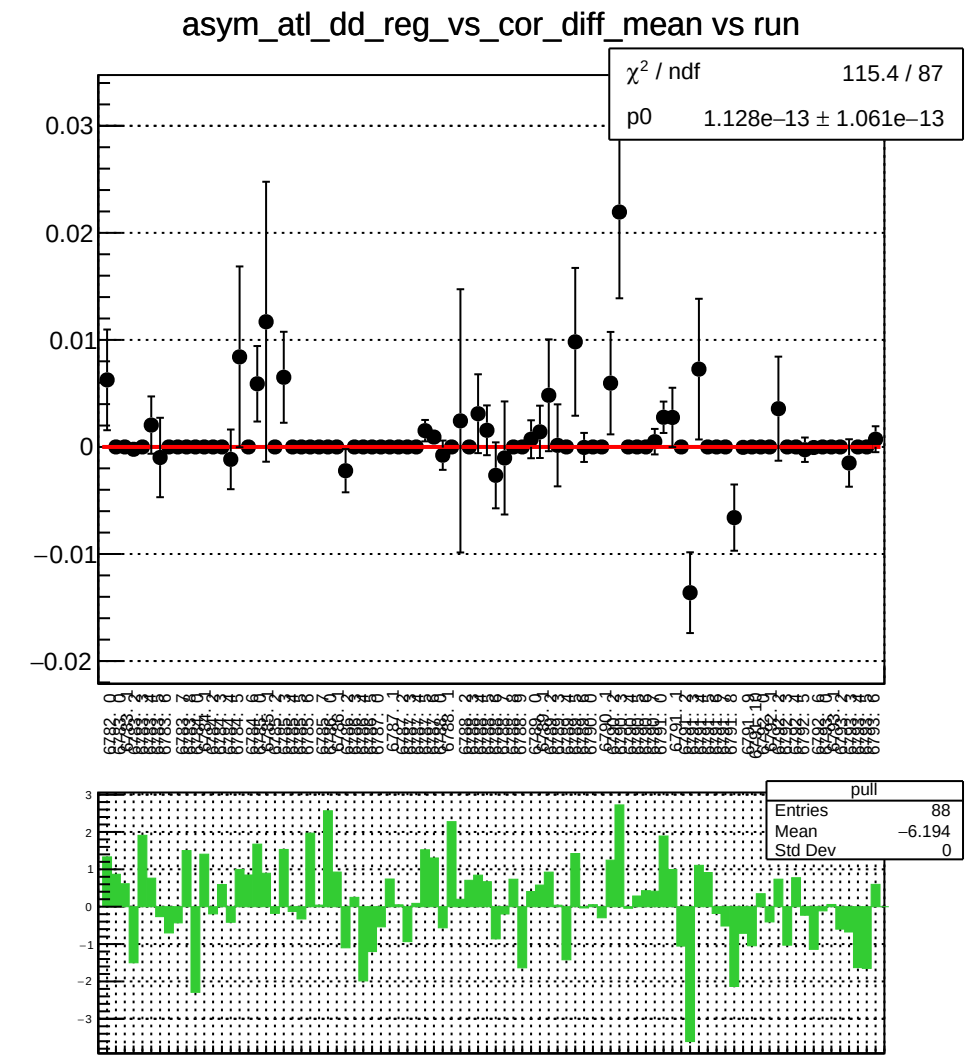


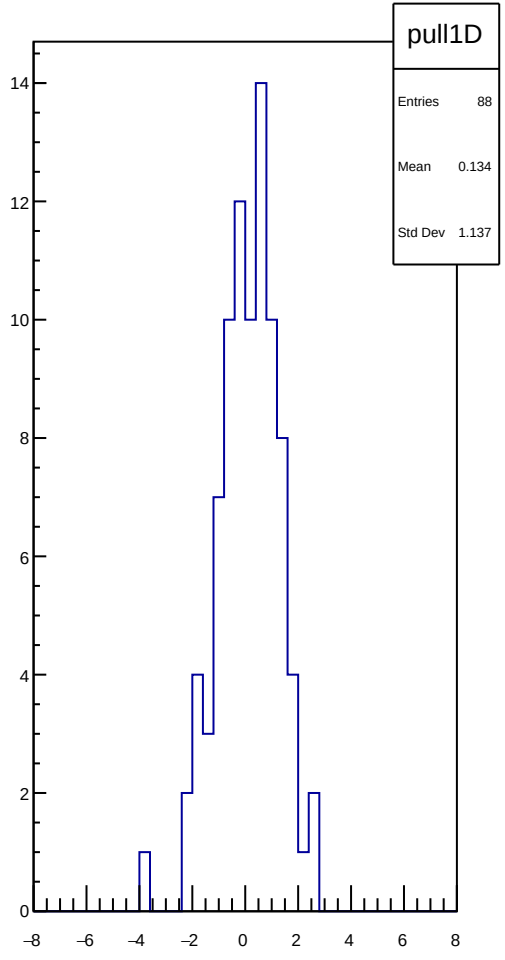

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 2309 / 87
p0 3645 ± 2.835
4200
4100
4000
3900
3800
3700
3600
3500
3400

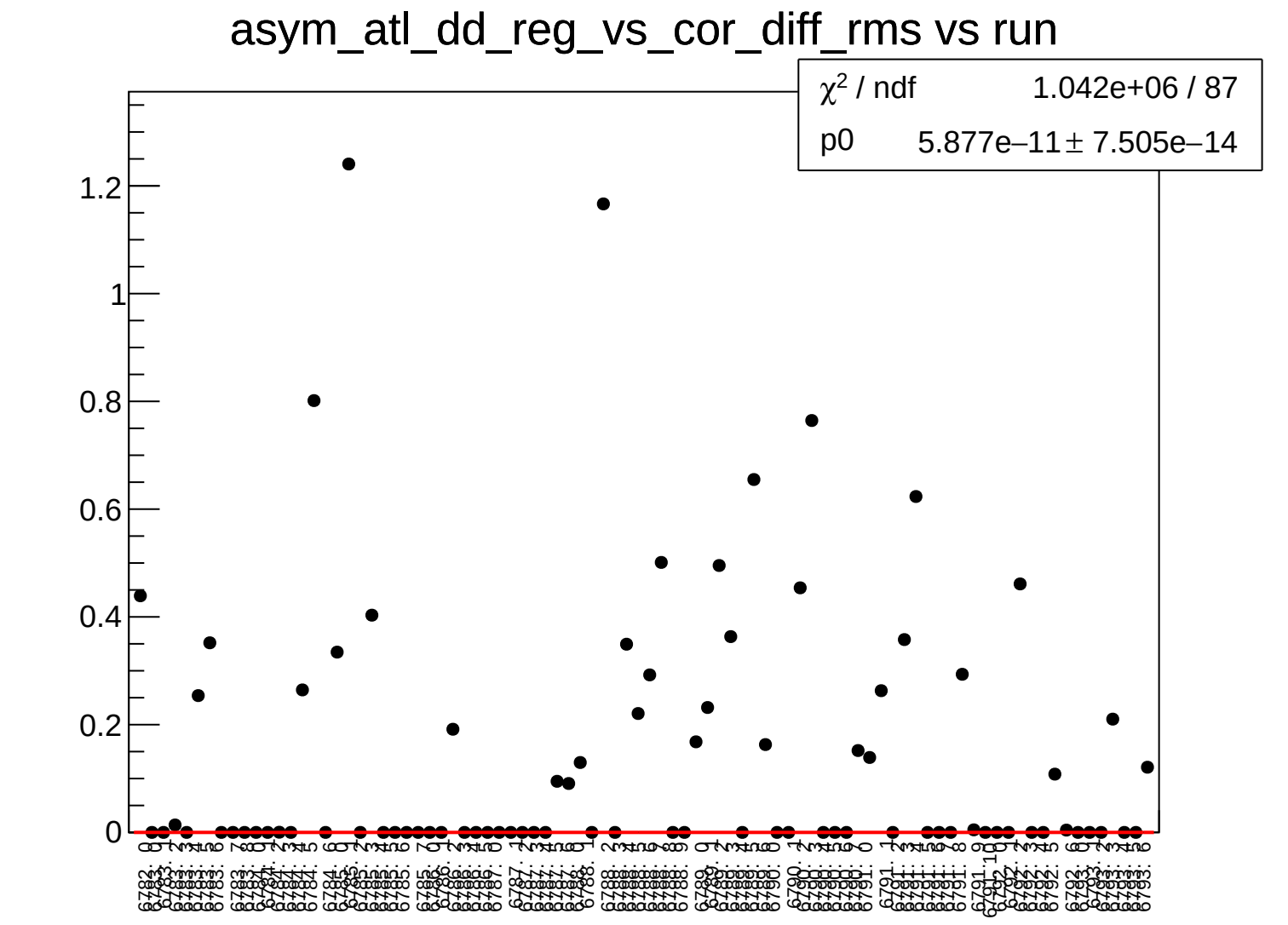

asym_atl_dd_mean vs run
×10^3
χ² / ndf 94.8 / 87
p0 −2394 ± 4222
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −118.9
Std Dev 0
3
2
1
0
−1
−2
−3

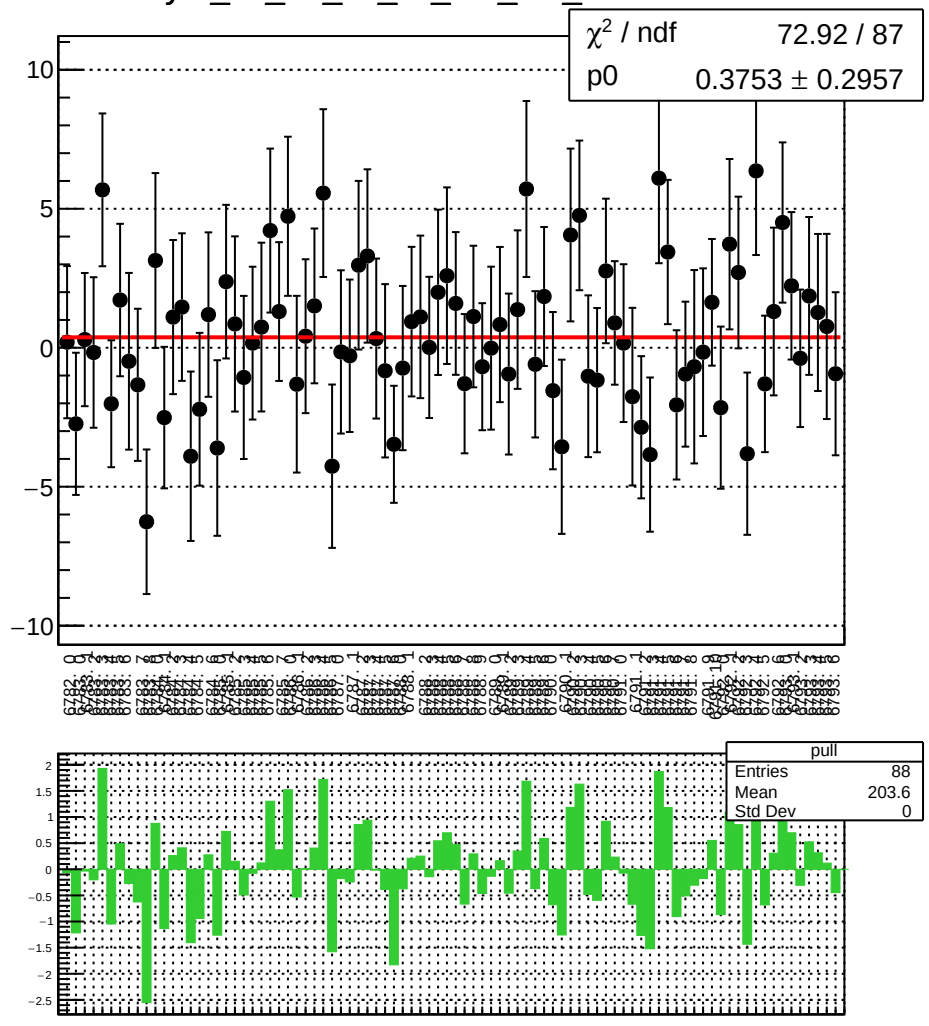

pull1D
Entries 88
Mean −0.01528
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

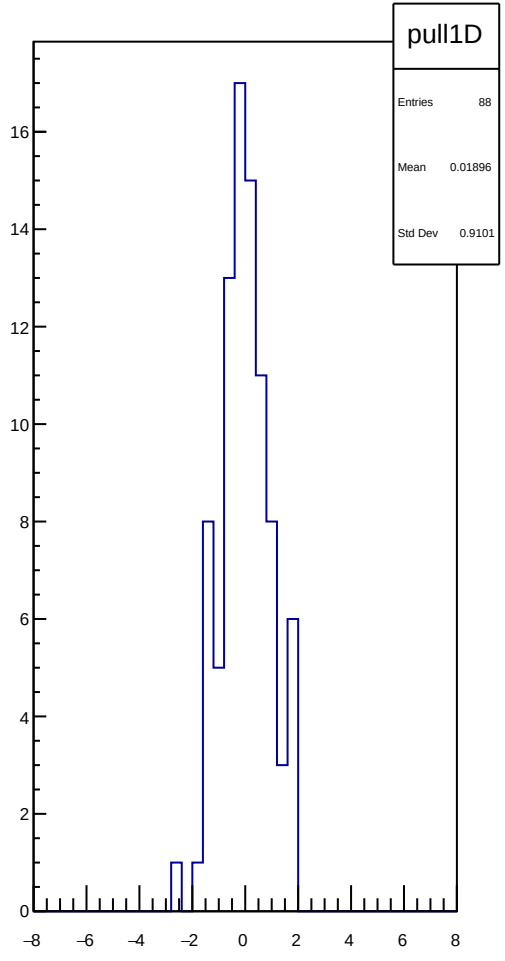

asym_atl_dd_rms vs run
χ² / ndf 1672 / 87
p0 3838 ± 2.985
4300
4200
4100
4000
3900
3800
3700
3600

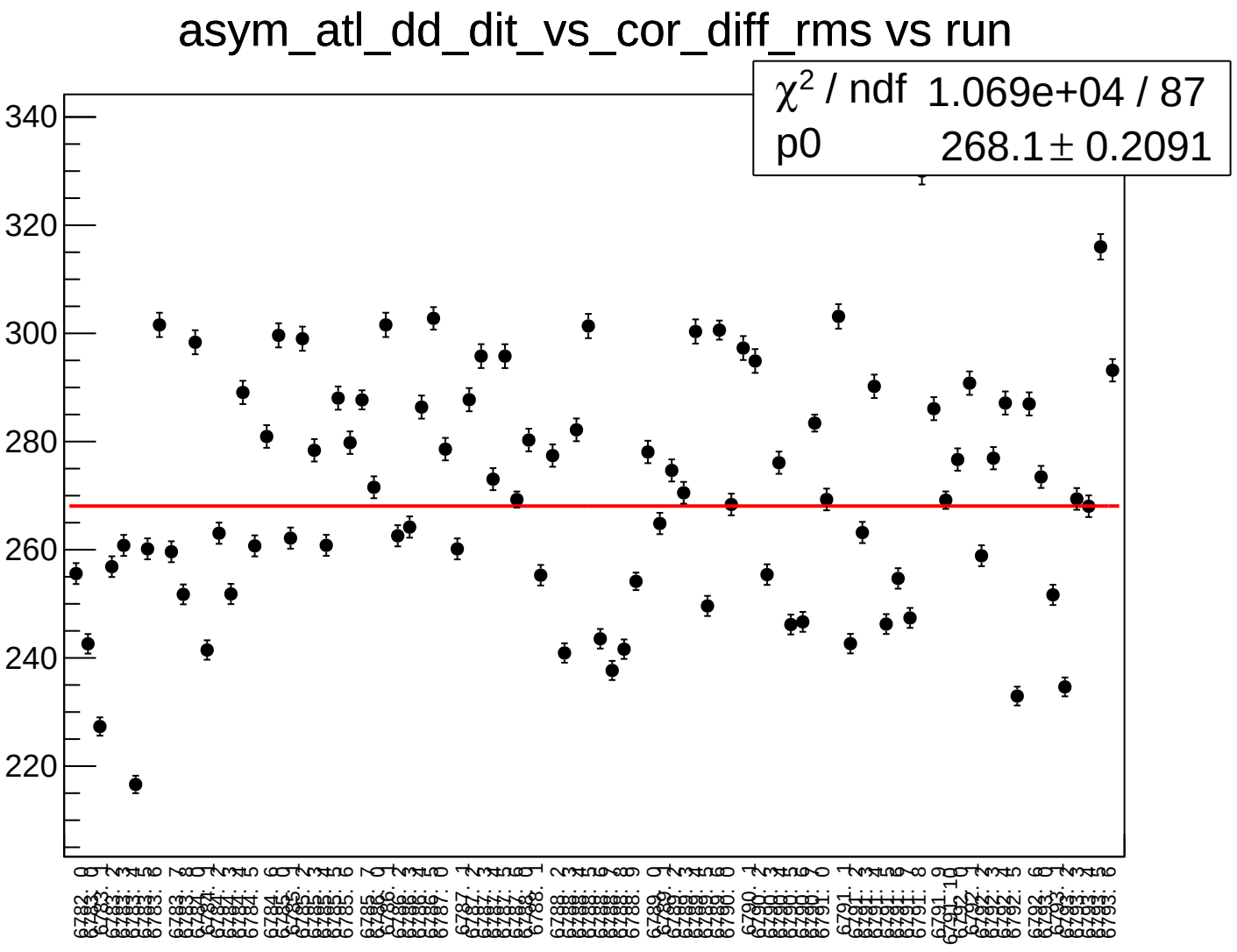

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 87
p0 1.128e−13 ± 1.061e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean −6.194
Std Dev 0
3
2
1
0
−1
−2
−3

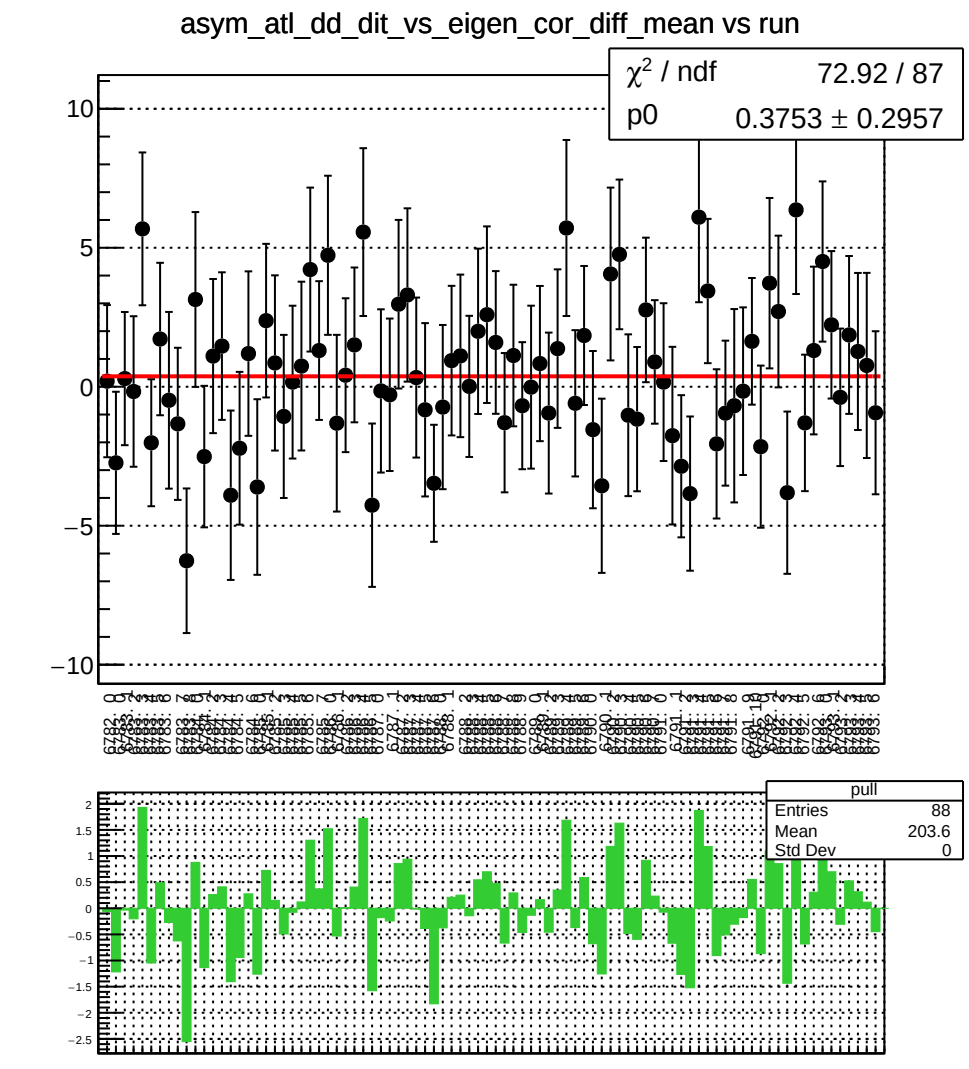

pull1D
Entries 88
Mean 0.134
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

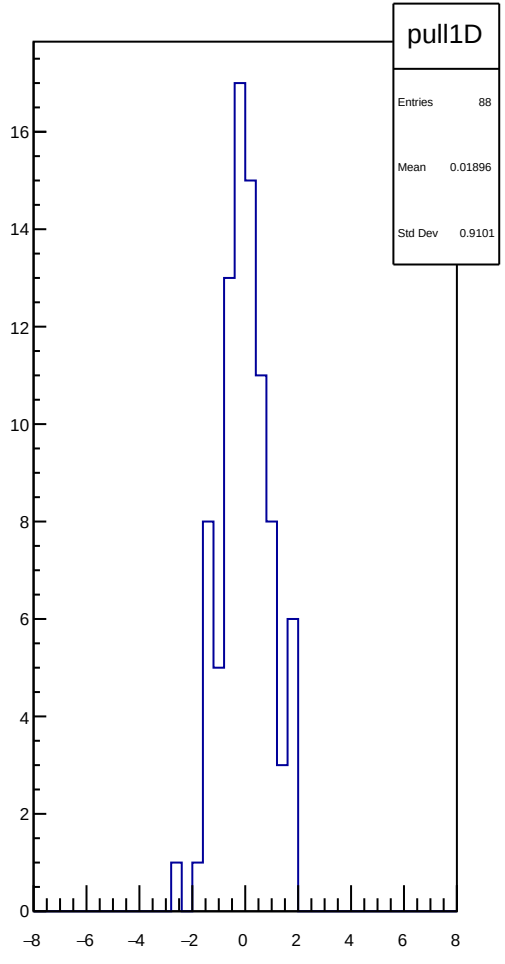

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.042e+06 / 87
p0 5.877e−11 ± 7.505e−14
1.2
1
0.8
0.6
0.4
0.2
0

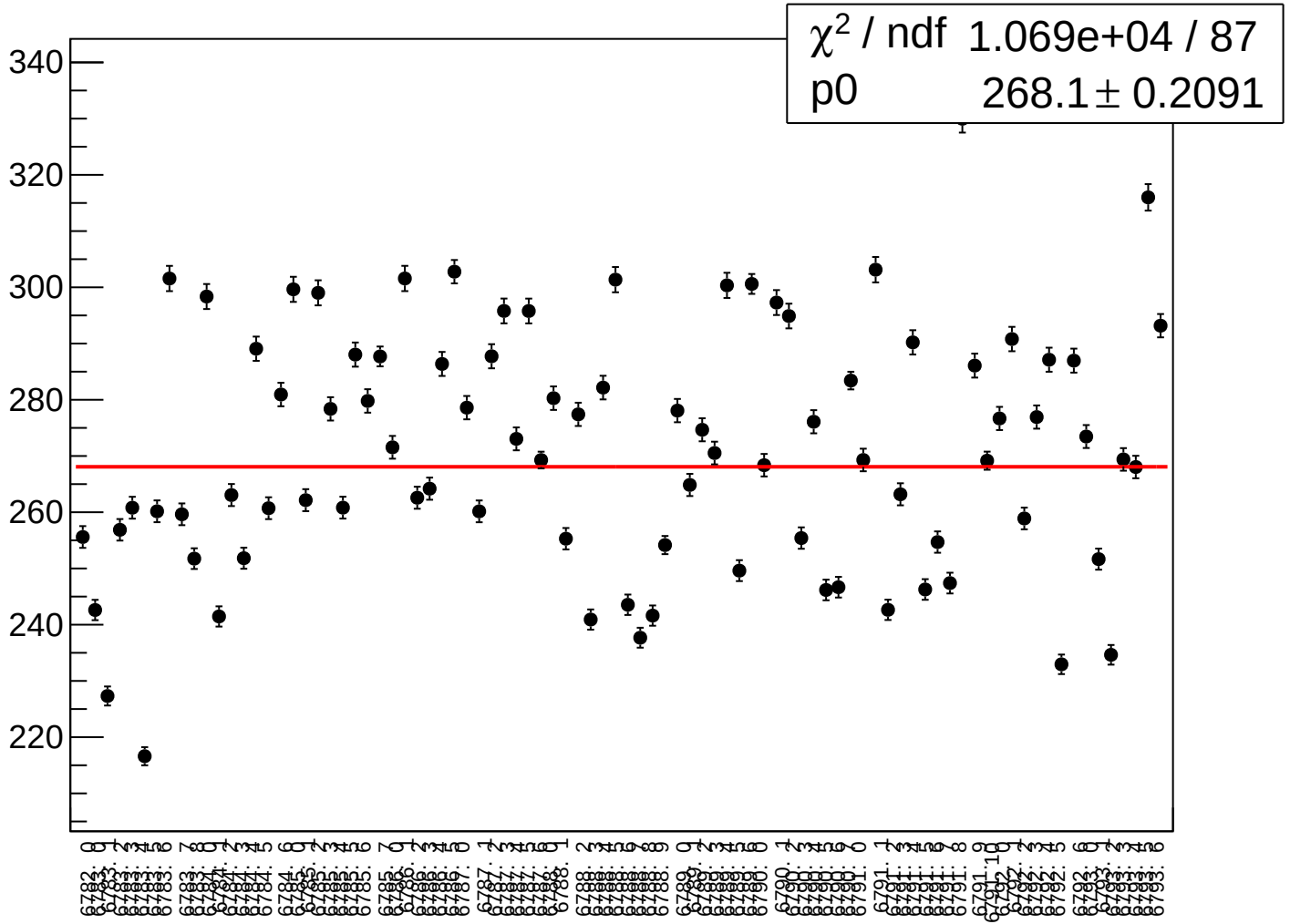

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.92 / 87
p0 0.3753 ± 0.2957
pull
Entries 88
Mean 203.6
Std Dev 0

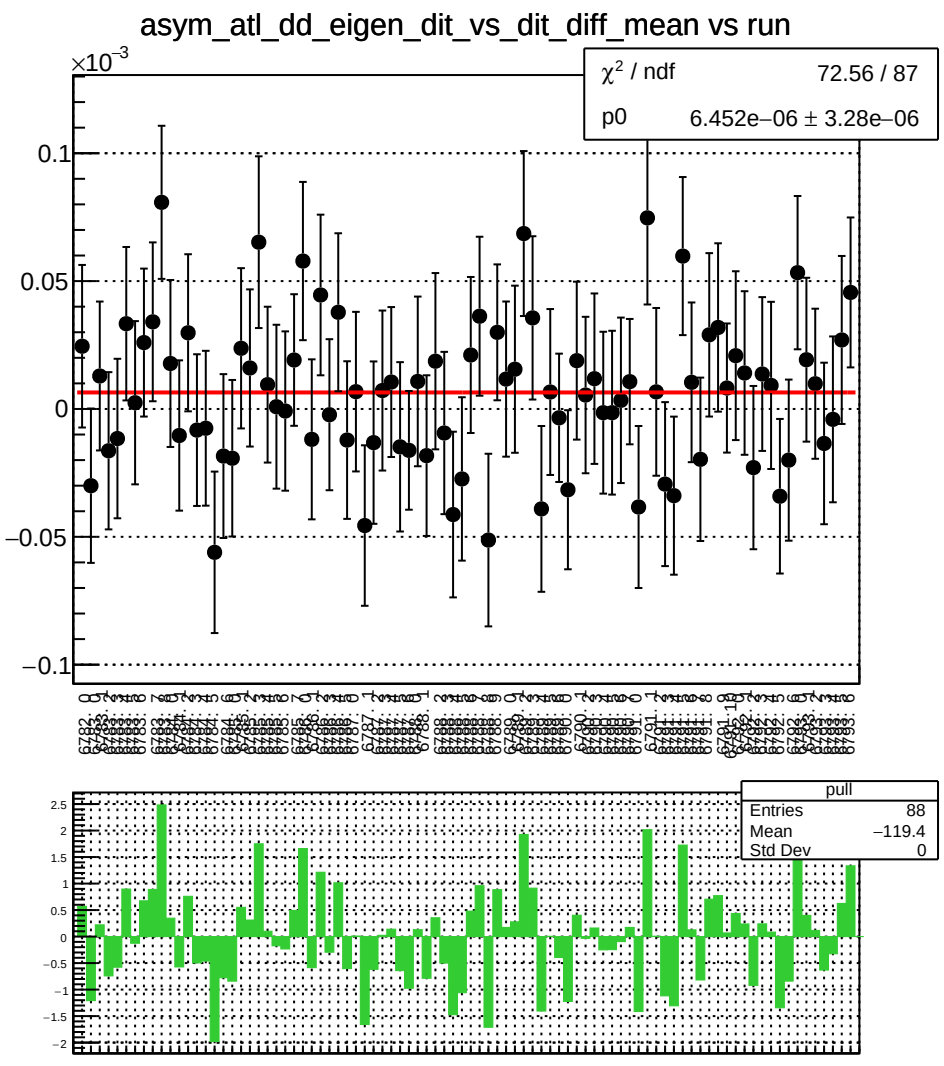

pull1D
Entries 88
Mean 0.01896
Std Dev 0.9101

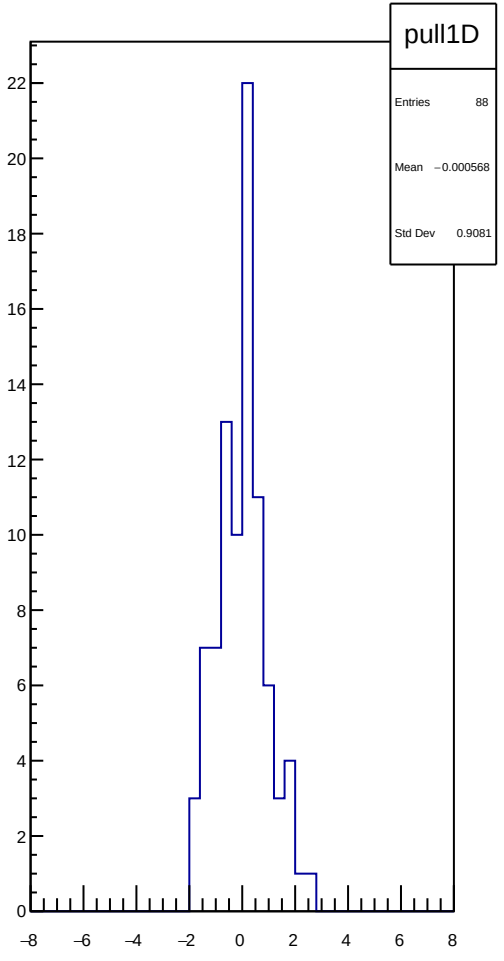

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 87
p0 268.1 ± 0.2091
340
320
300
280
260
240
220

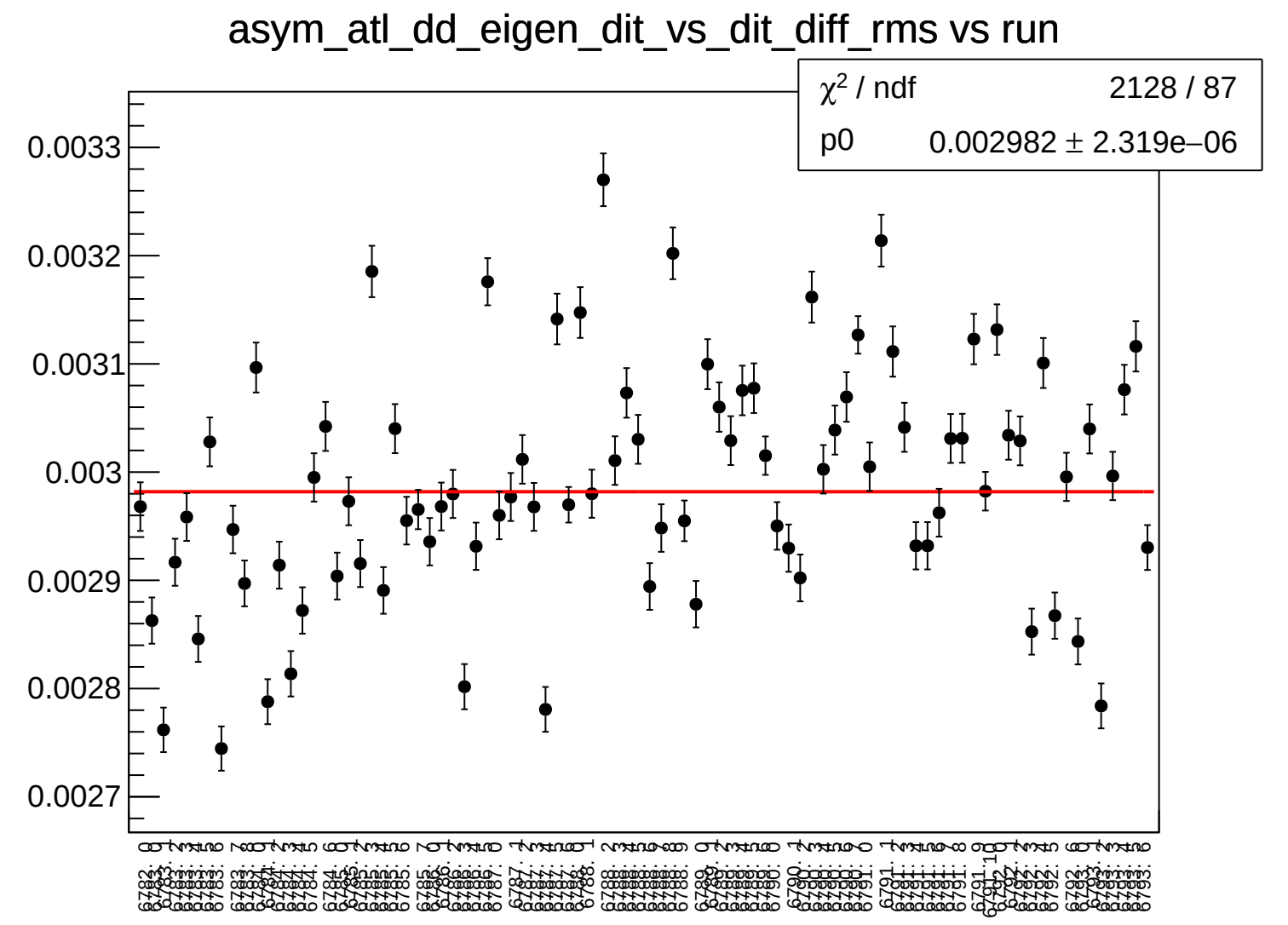

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.92 / 87
p0 0.3753 ± 0.2957
pull
Entries 88
Mean 203.6
Std Dev 0

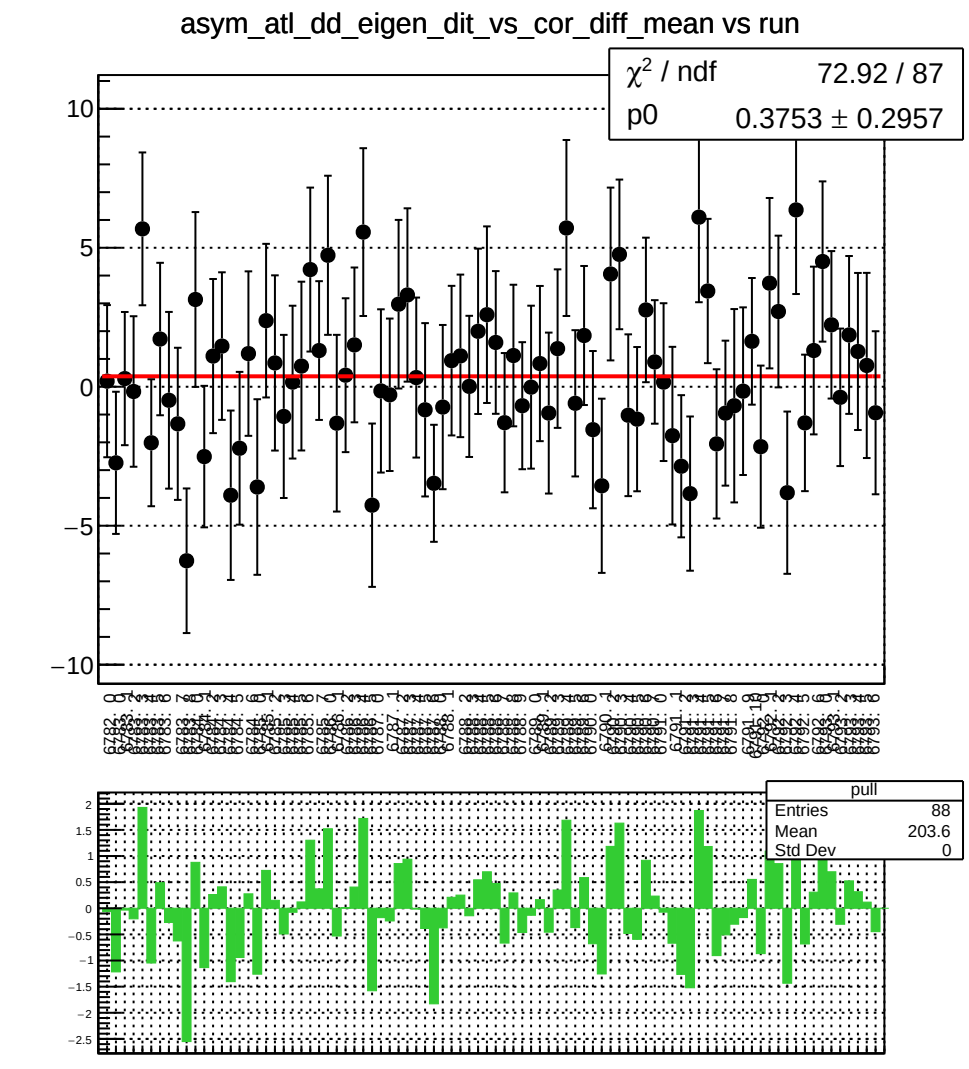

pull1D
Entries 88
Mean 0.01896
Std Dev 0.9101

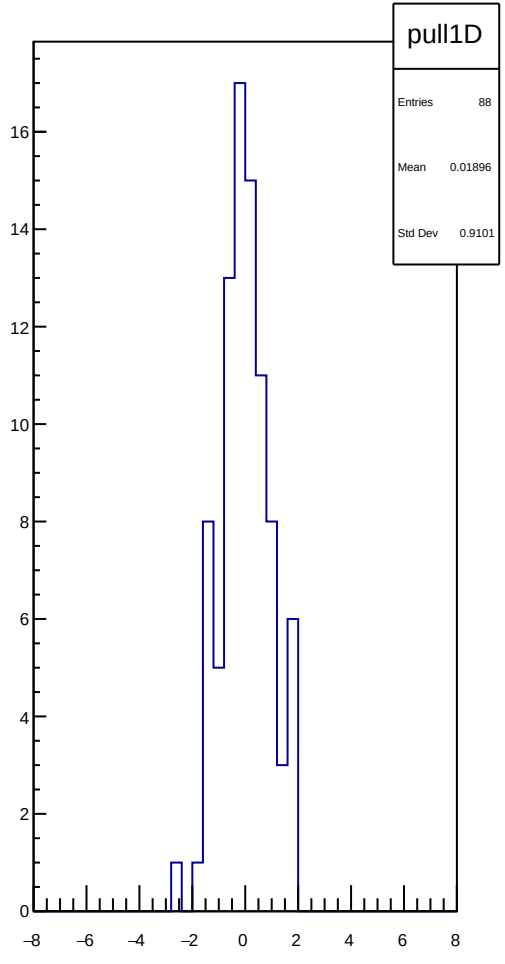

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 87
p0 268.1 ± 0.2091
340
320
300
280
260
240
220

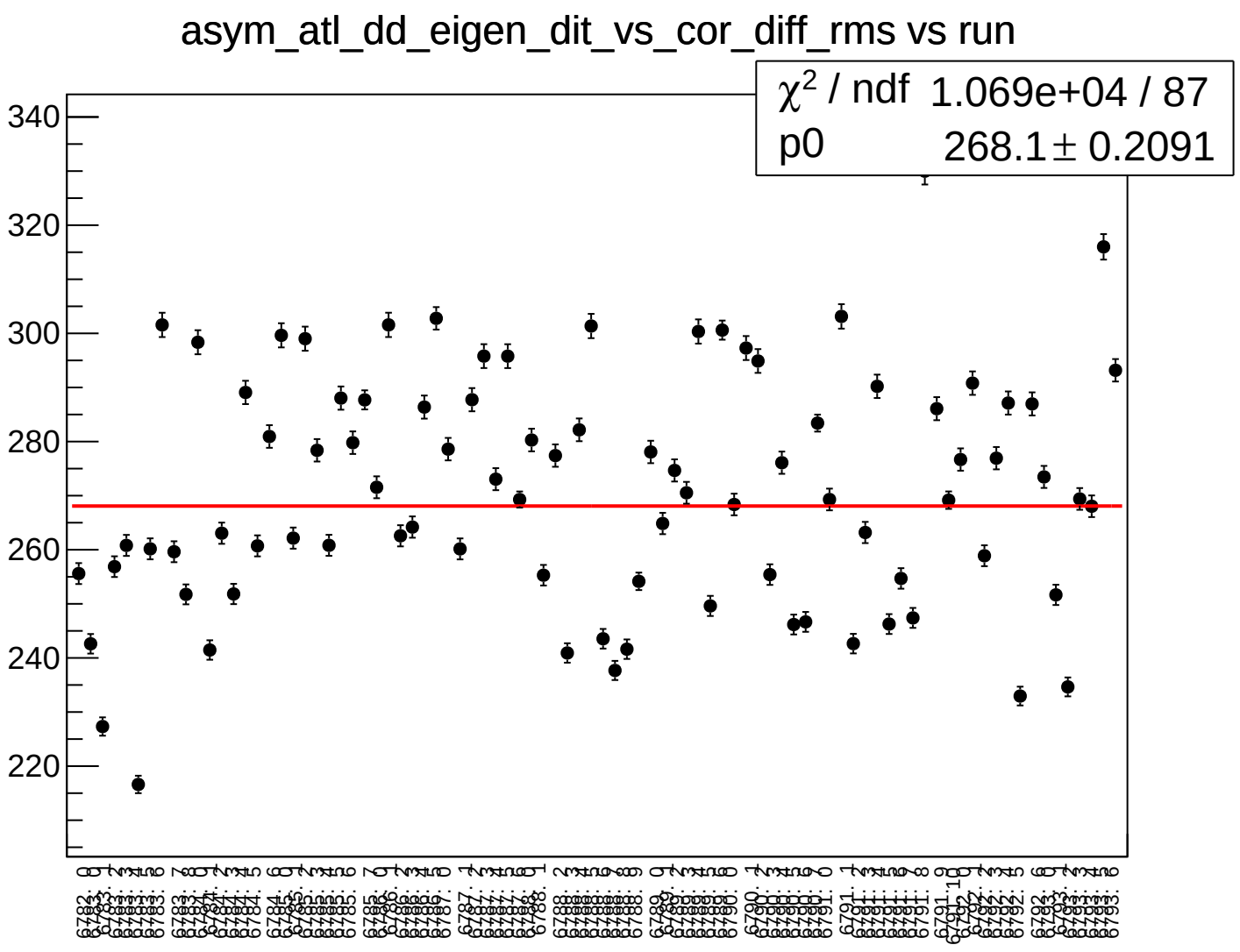

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.56 / 87
p0 6.452e−06 ± 3.28e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −119.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

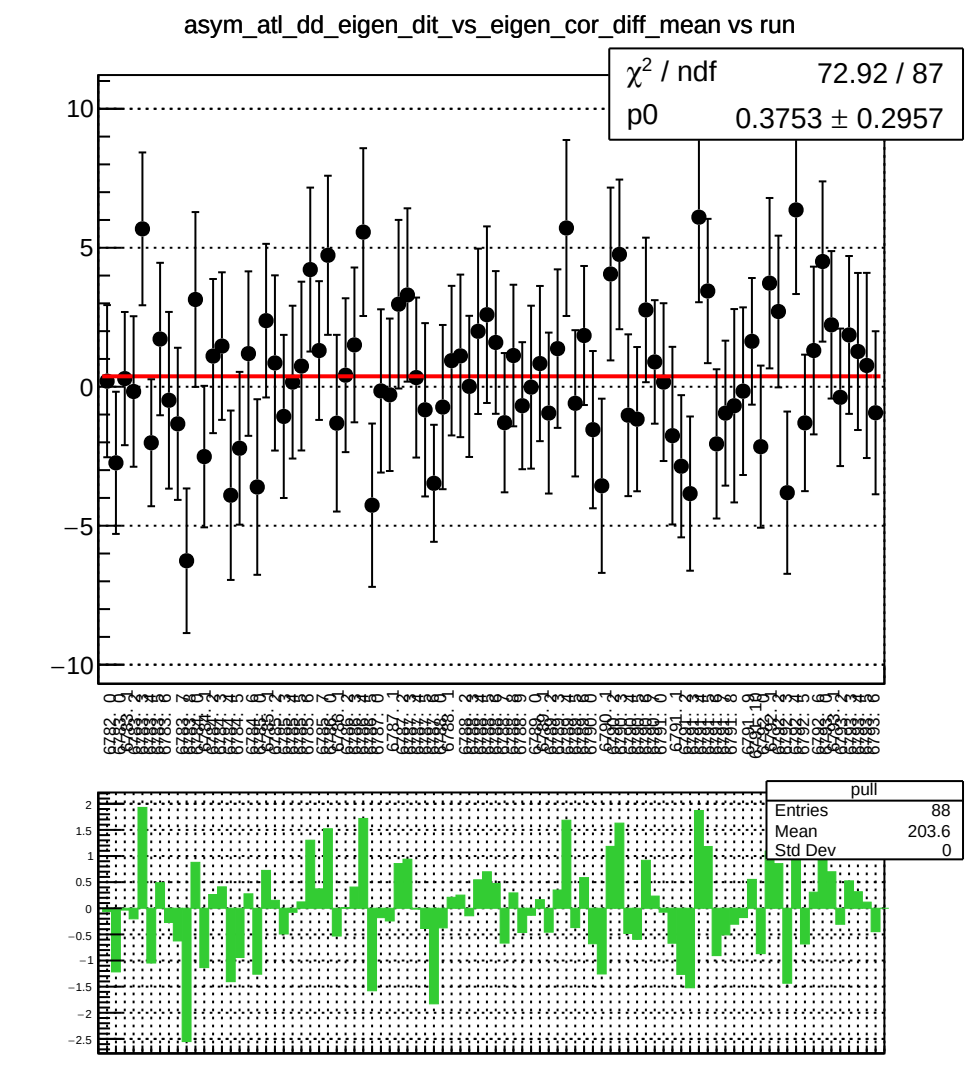

pull1D
Entries 88
Mean −0.000568
Std Dev 0.9081
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

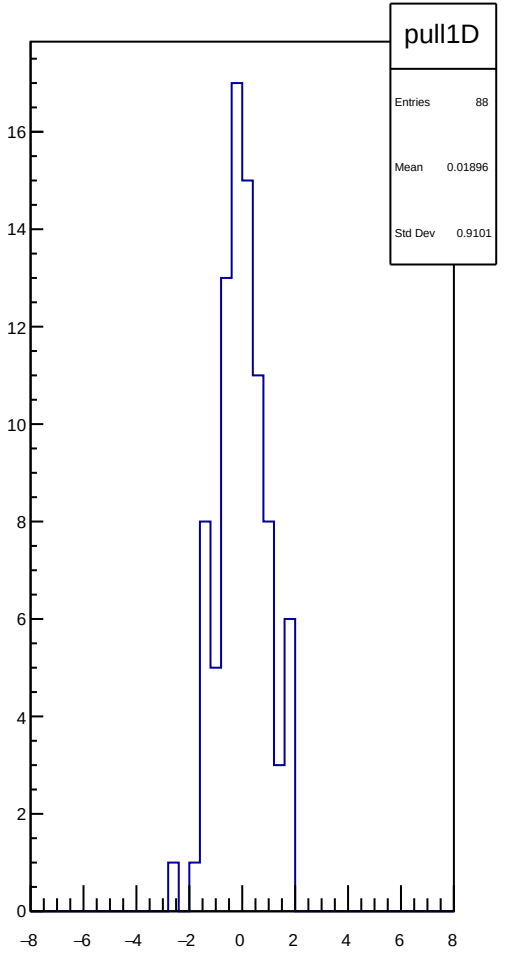

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2128 / 87
p0 0.002982 ± 2.319e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

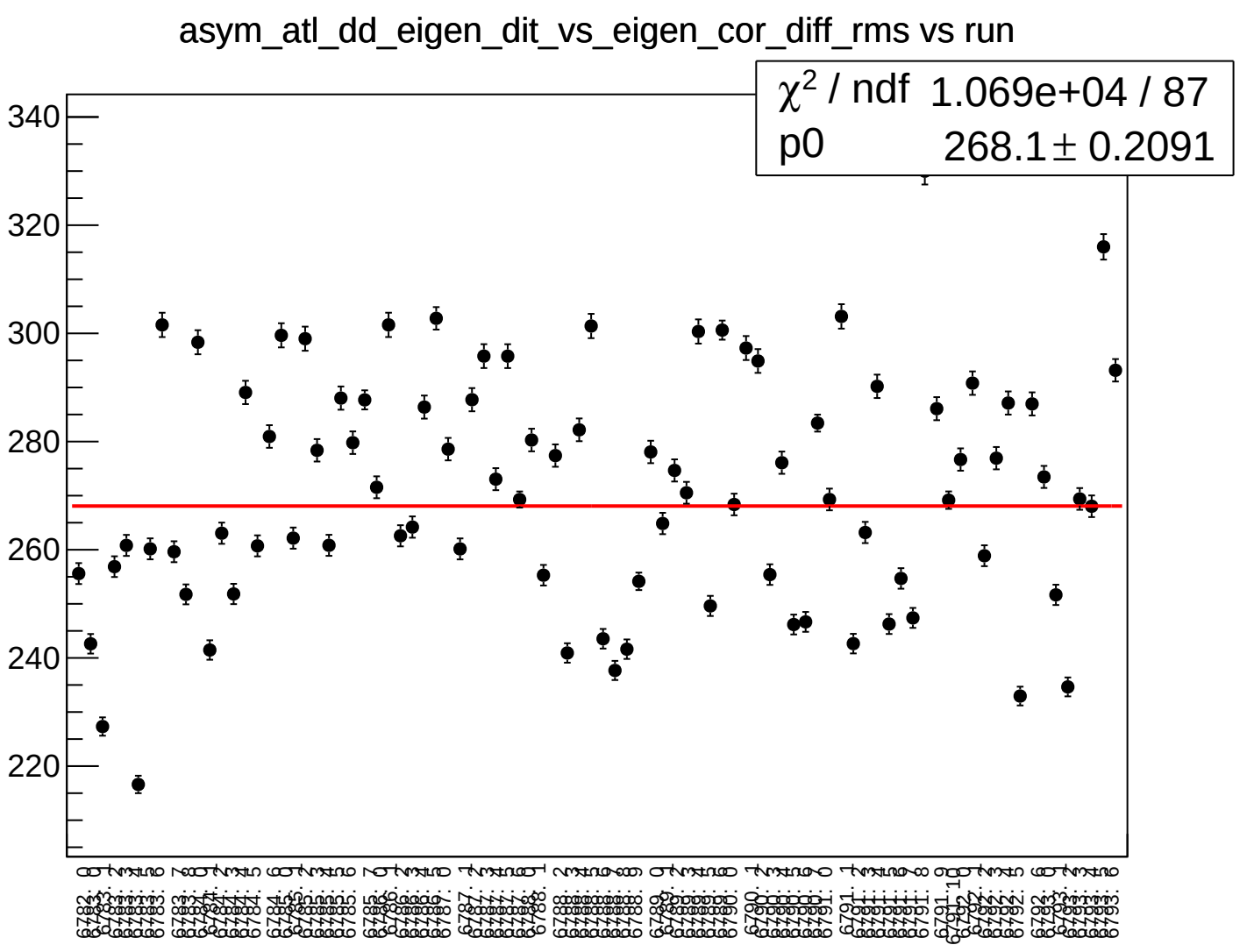

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.92 / 87
p0 0.3753 ± 0.2957
pull
Entries 88
Mean 203.6
Std Dev 0

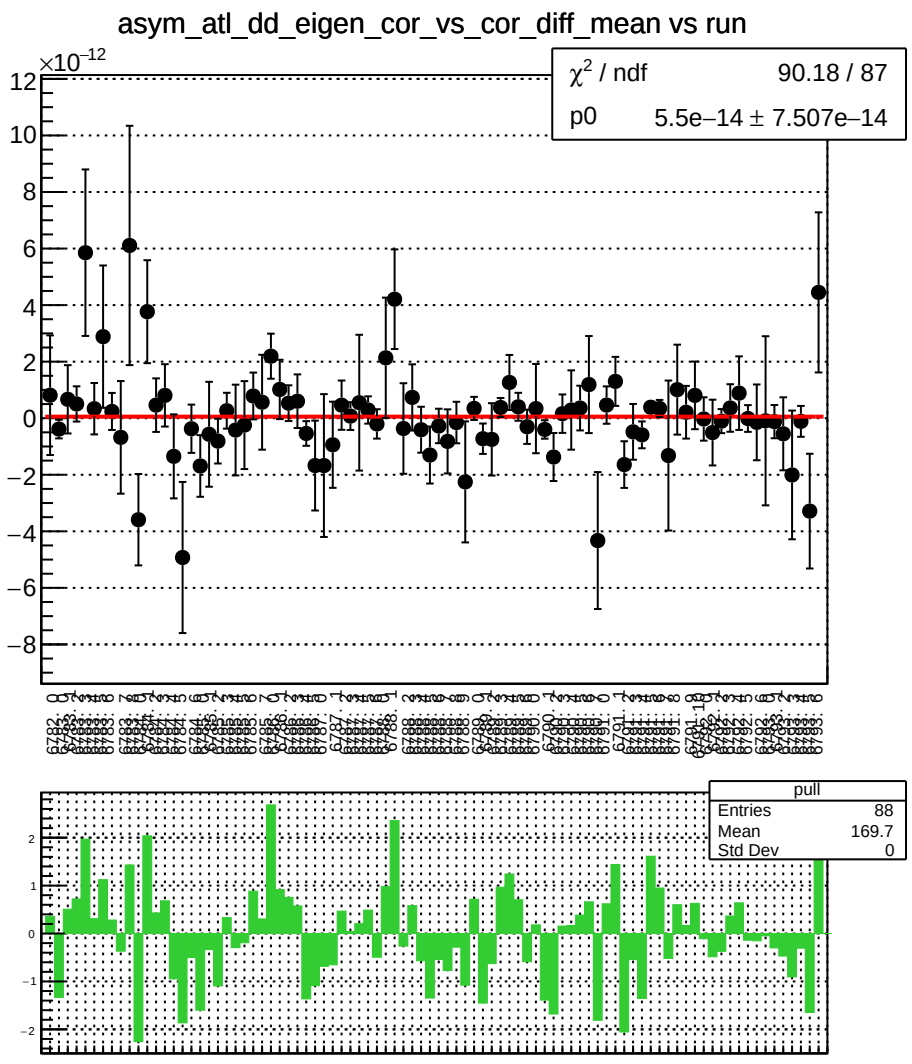

pull1D
Entries 88
Mean 0.01896
Std Dev 0.9101

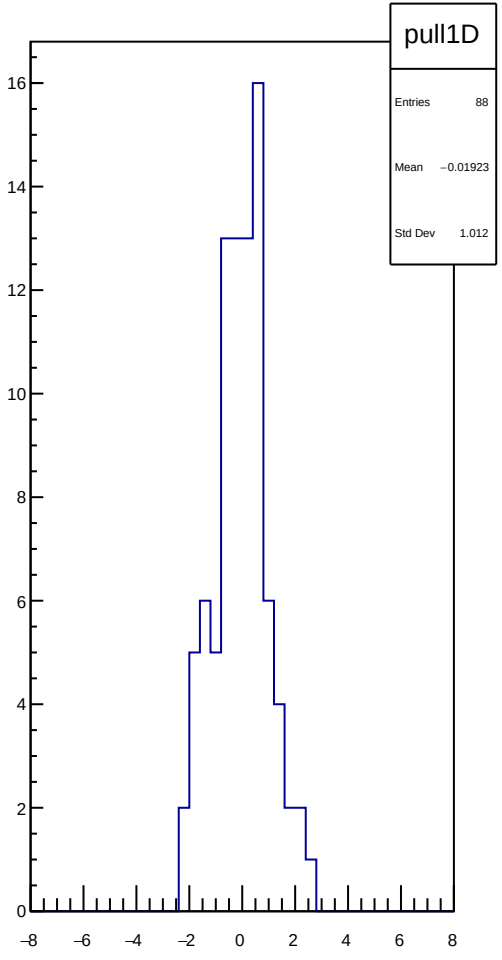

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 87
p0 268.1 ± 0.2091
340
320
300
280
260
240
220

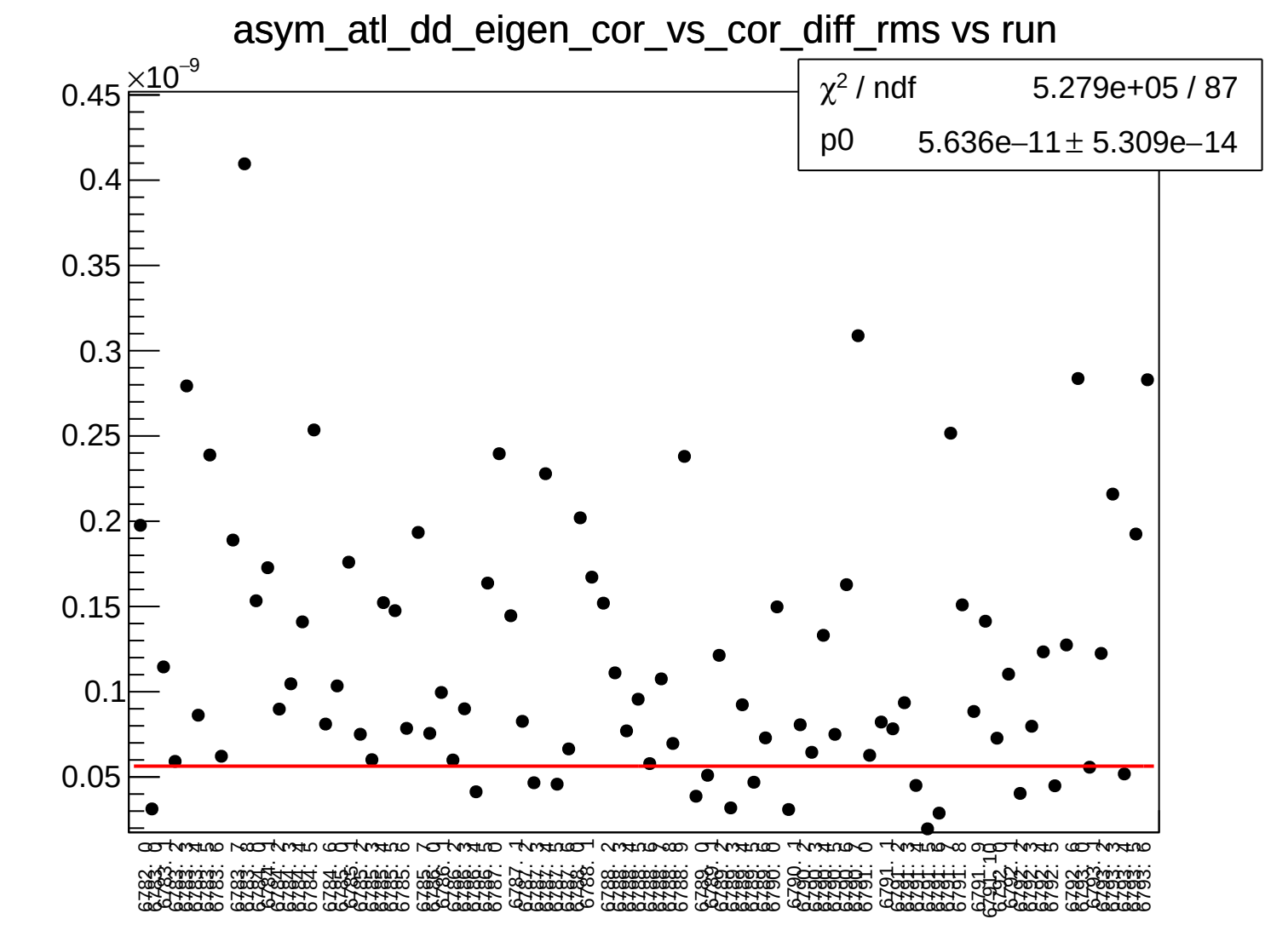

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.92 / 87
p0 0.3753 ± 0.2957
pull
Entries 88
Mean 203.6
Std Dev 0

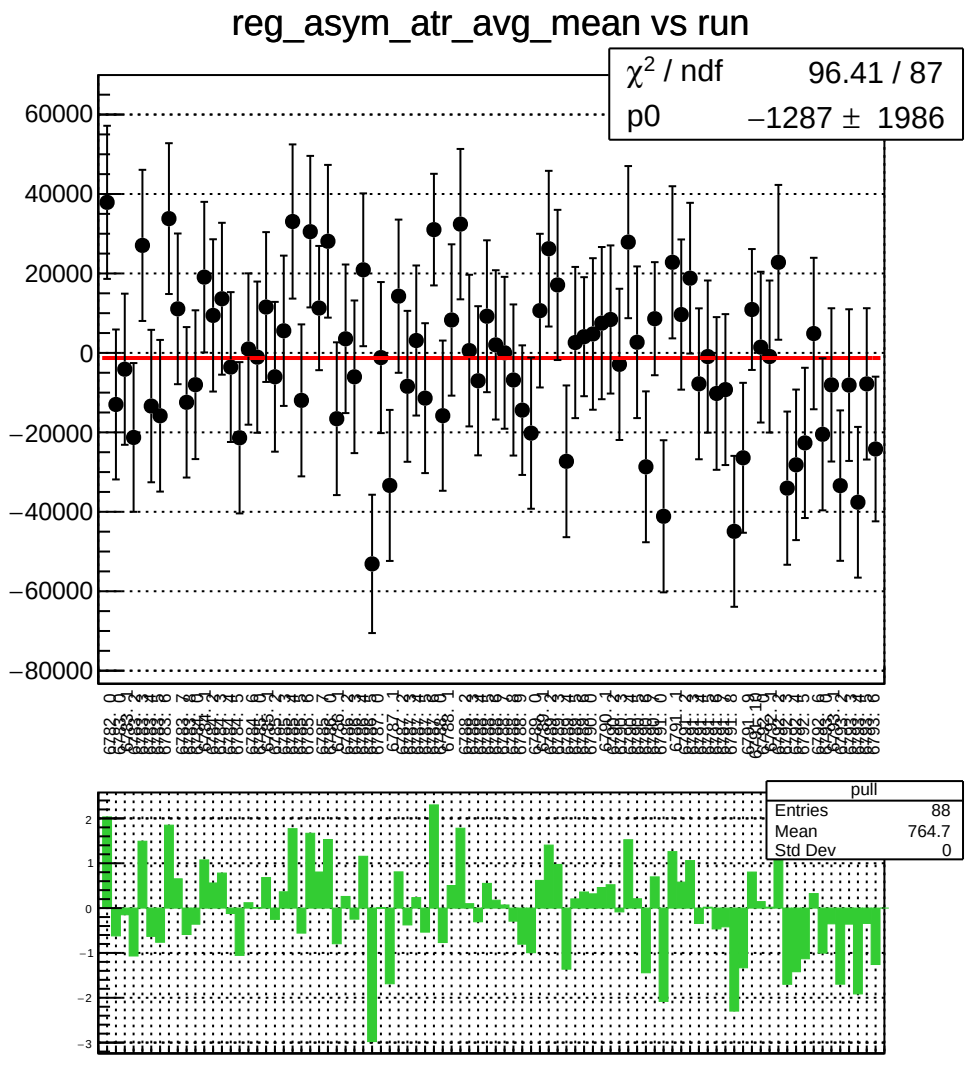

pull1D
Entries 88
Mean 0.01896
Std Dev 0.9101

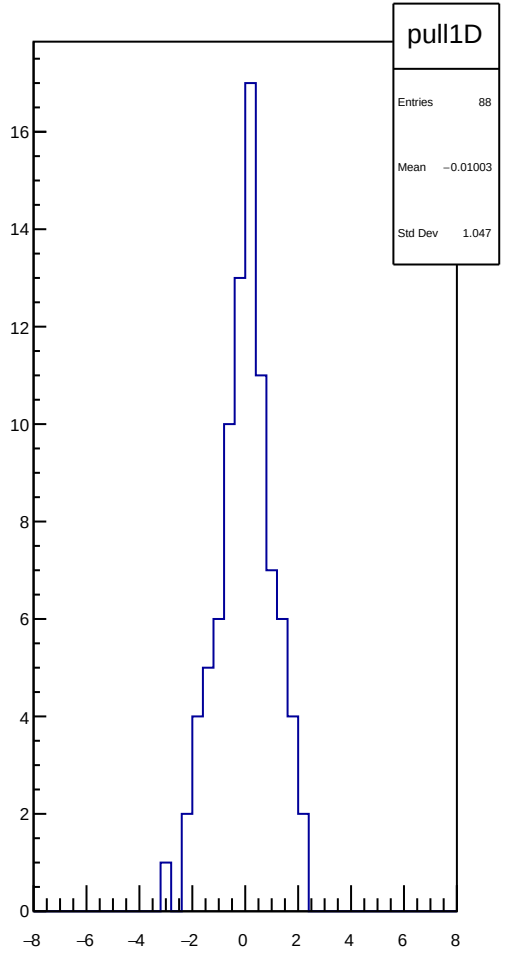

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 87
p0 268.1 ± 0.2091
340
320
300
280
260
240
220

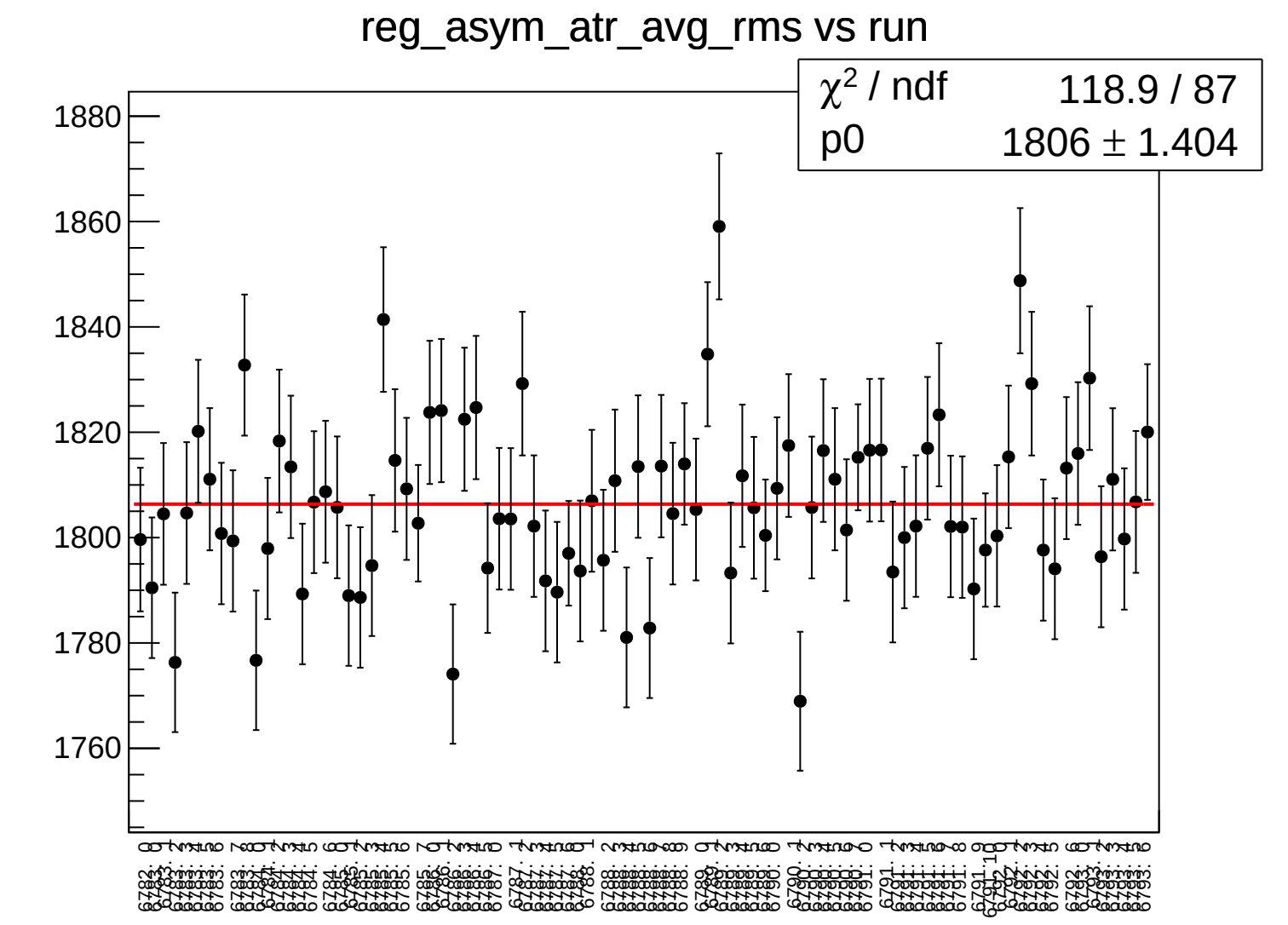

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.18 / 87
p0 5.5e−14 ± 7.507e−14
pull
Entries 88
Mean 169.7
Std Dev 0

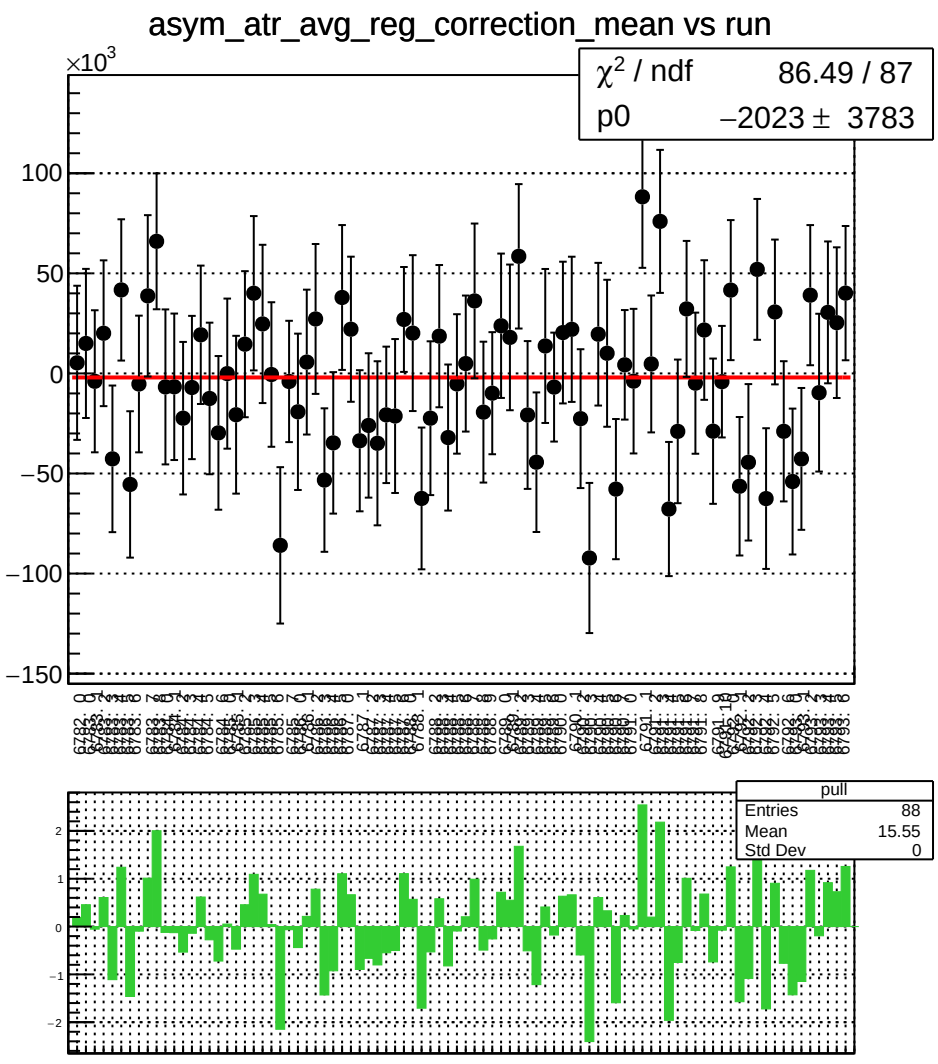

pull1D
Entries 88
Mean −0.01923
Std Dev 1.012

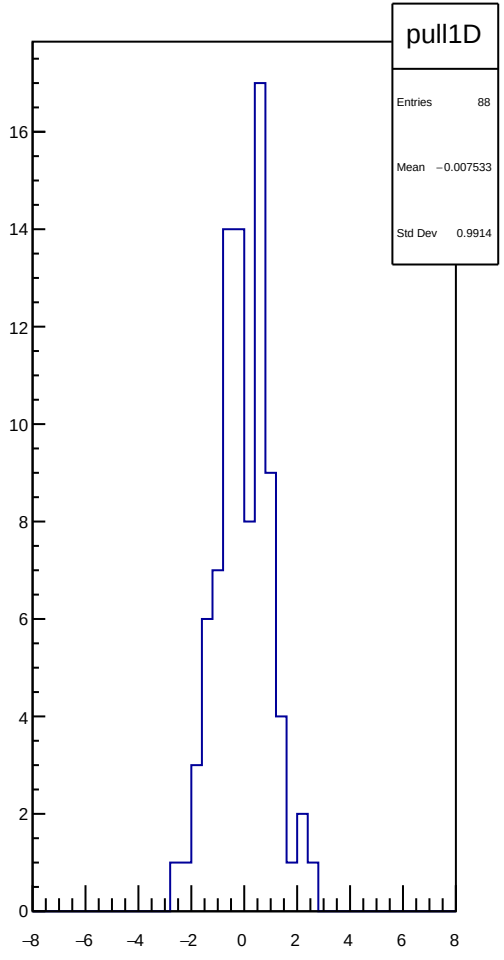

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.279e+05 / 87
p0 5.636e−11 ± 5.309e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

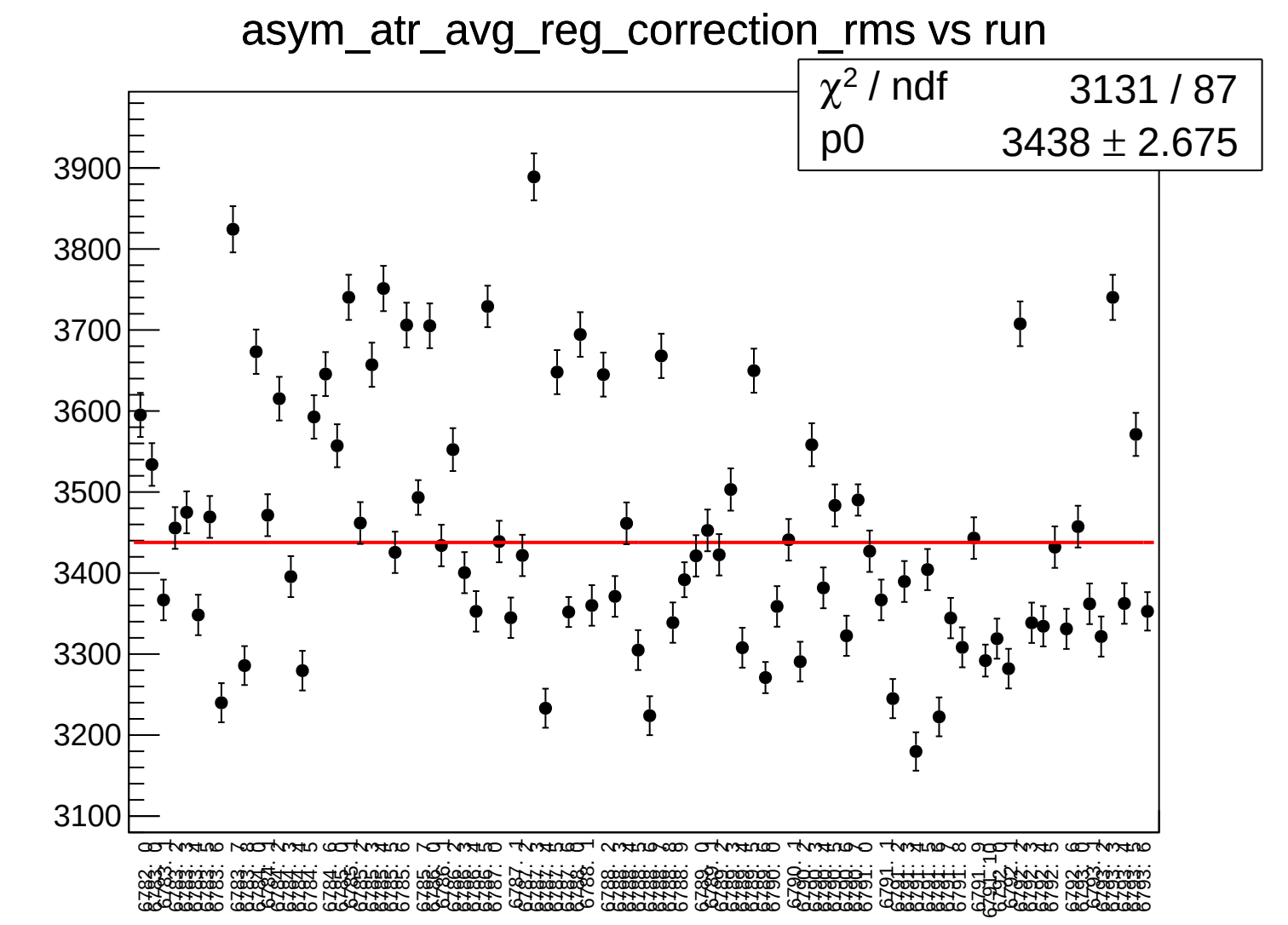

reg_asym_atr_avg_mean vs run
χ² / ndf 96.41 / 87
p0 −1287 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 764.7
Std Dev 0
2
1
0
−1
−2
−3

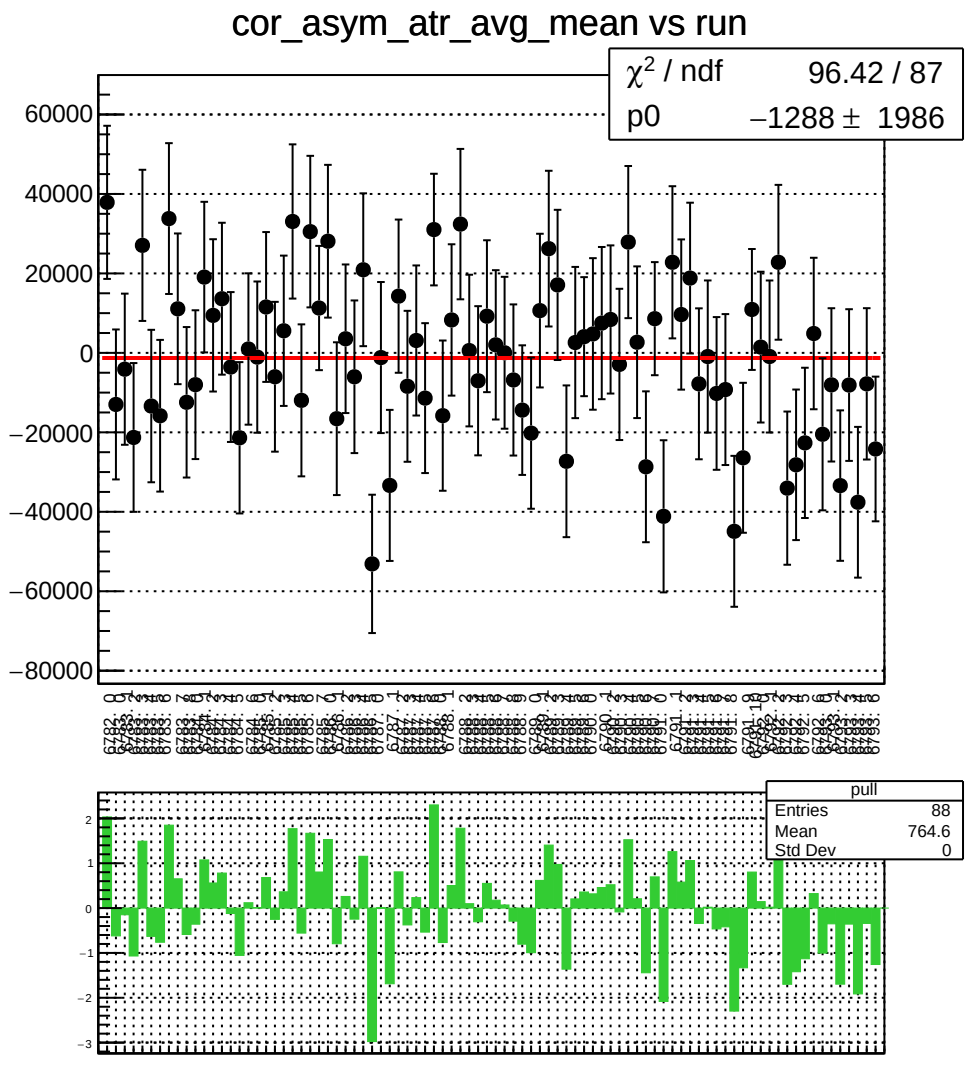

pull1D
Entries 88
Mean −0.01003
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

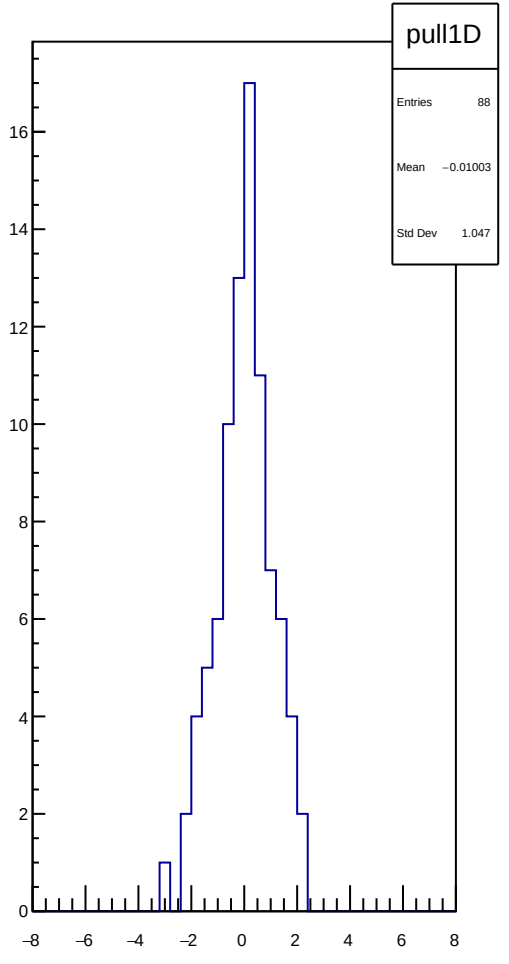

reg_asym_atr_avg_rms vs run
χ^2 / ndf 118.9 / 87
p0 1806 ± 1.404
1880
1860
1840
1820
1800
1780
1760

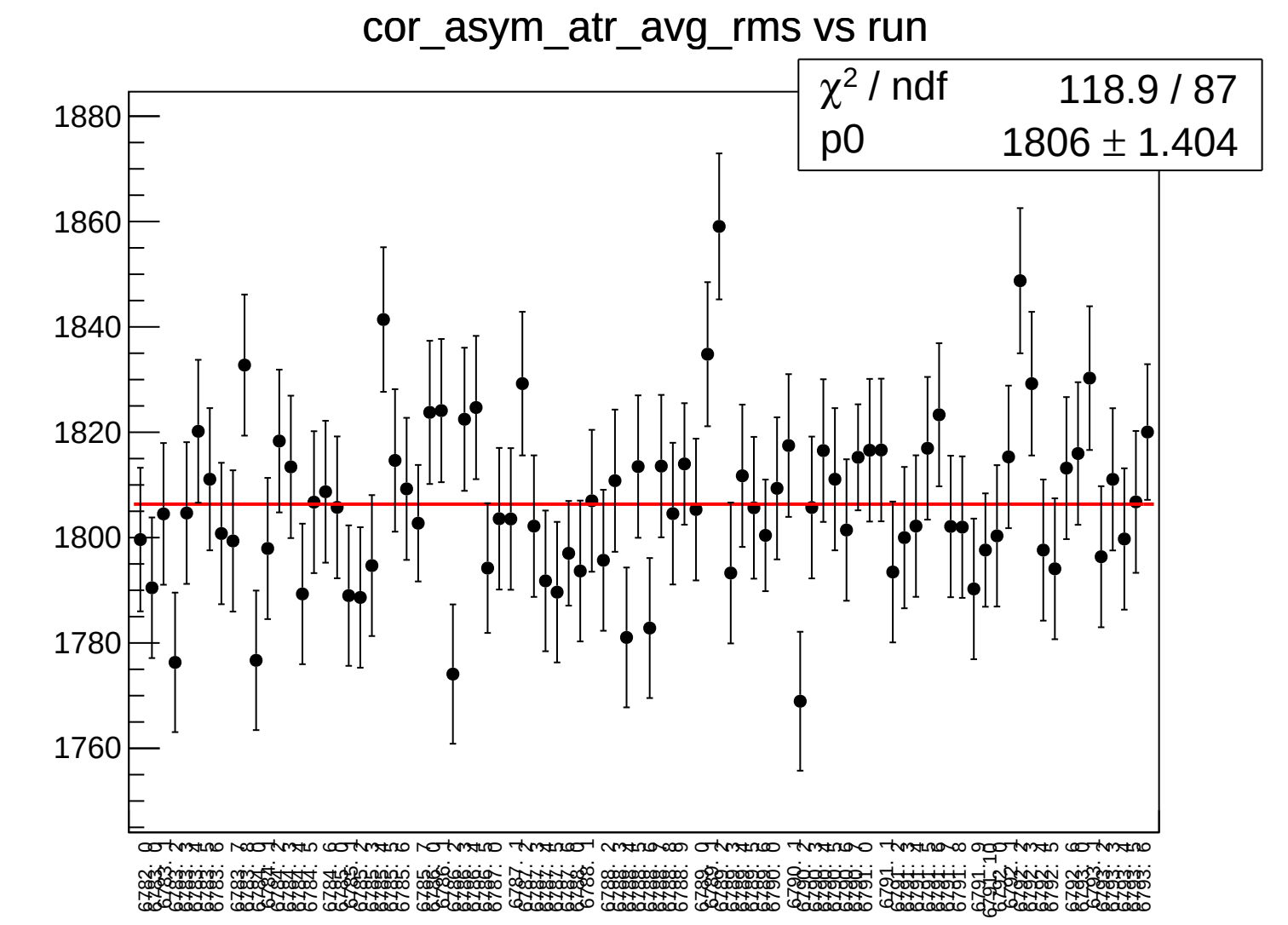

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.49 / 87
p0 −2023 ± 3783
100
50
0
−50
−100
−150
pull
Entries 88
Mean 15.55
Std Dev 0
2
1
0
−1
−2

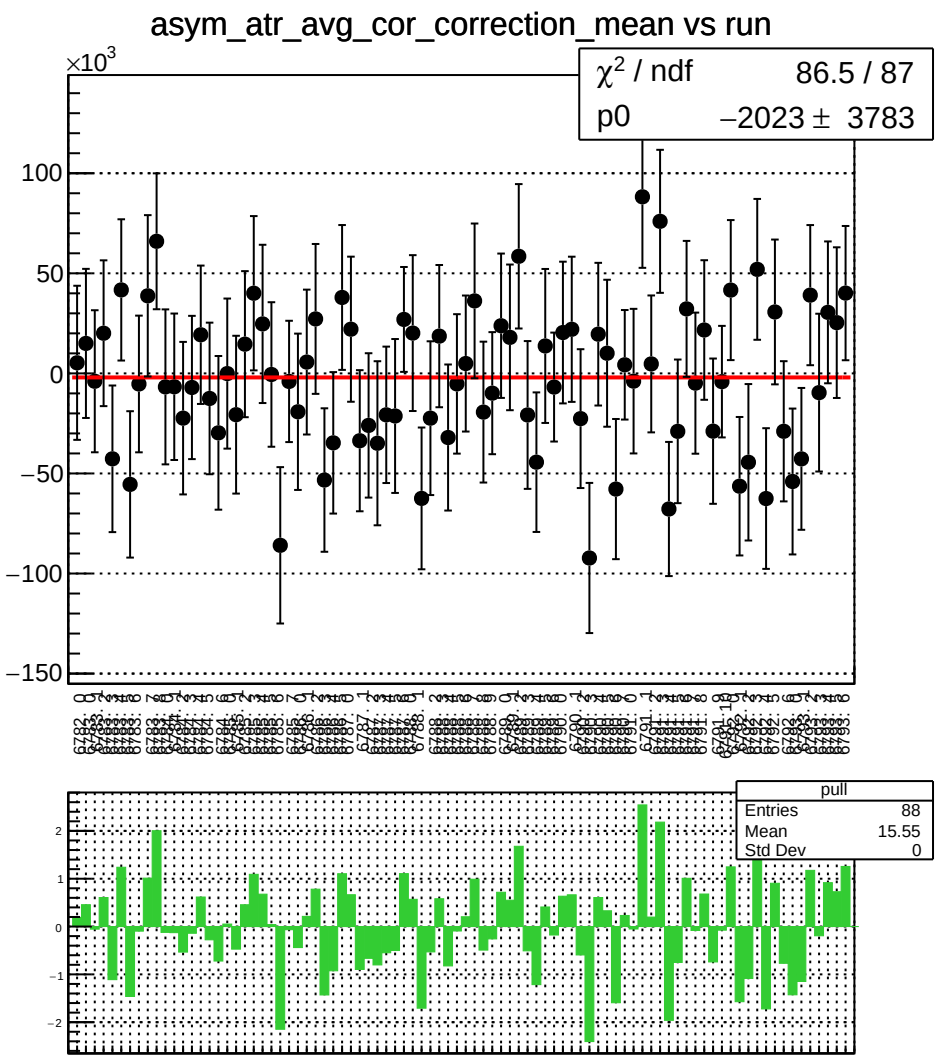

pull1D
Entries 88
Mean −0.007533
Std Dev 0.9914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

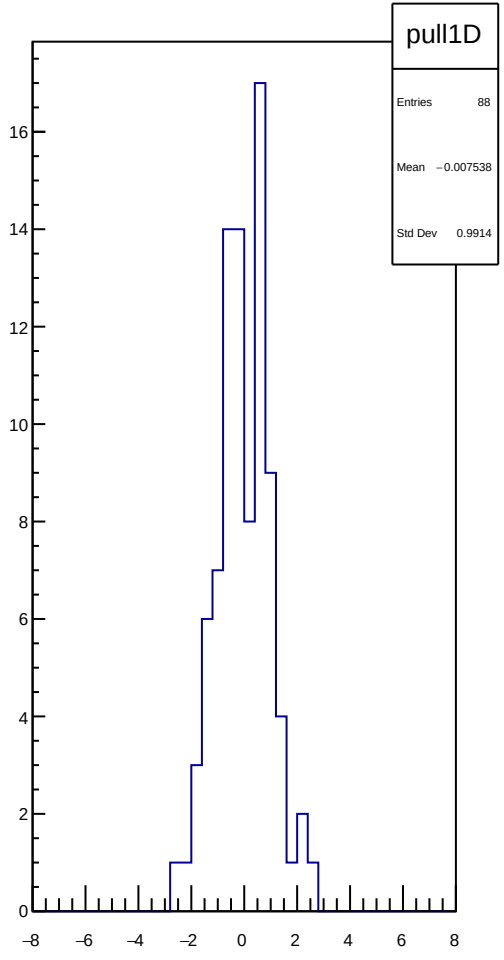

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 3131 / 87
p0 3438 ± 2.675
3900
3800
3700
3600
3500
3400
3300
3200
3100

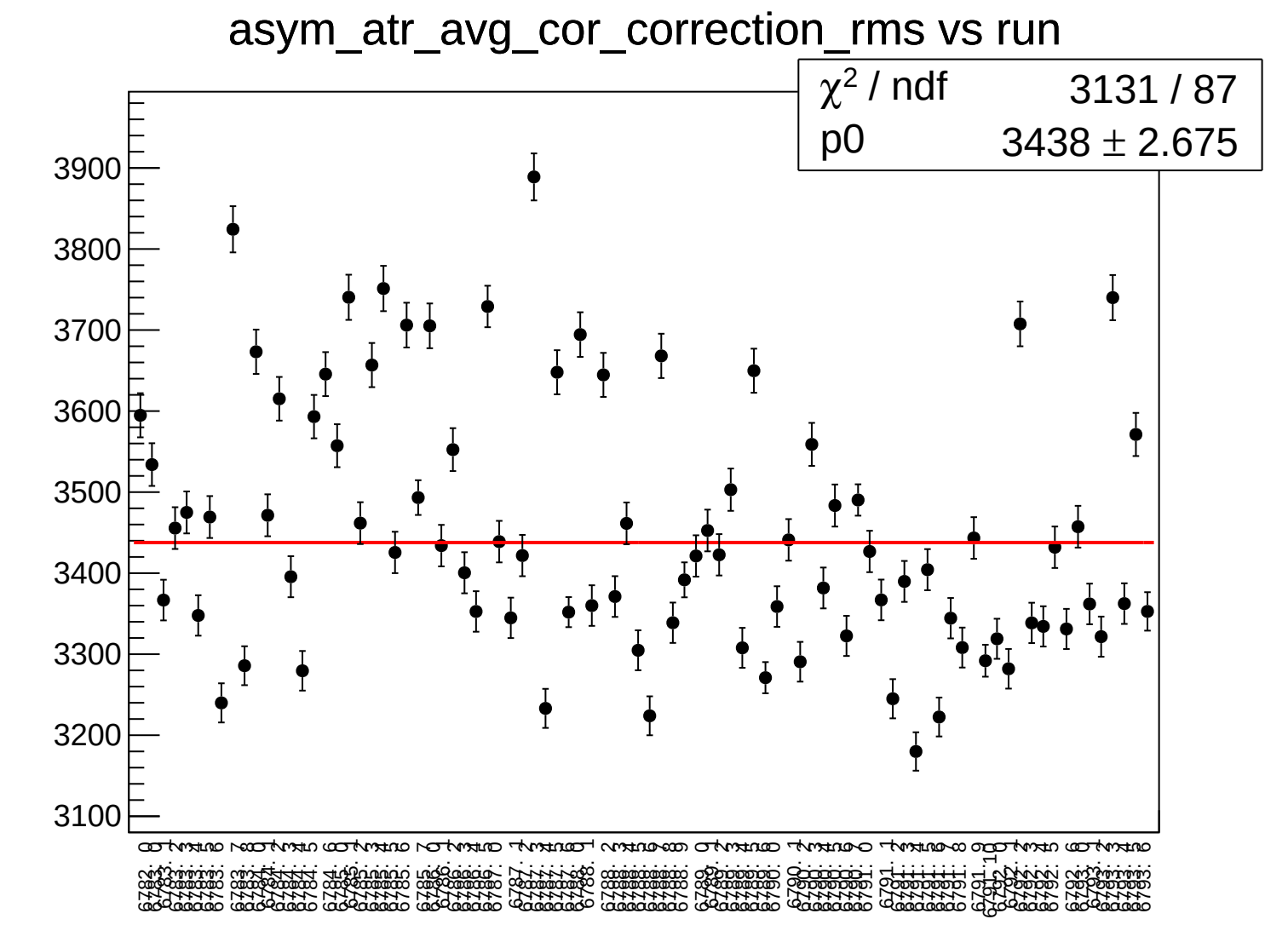

cor_asym_atr_avg_mean vs run
χ² / ndf 96.42 / 87
p0 −1288 ± 1986
pull
Entries 88
Mean 764.6
Std Dev 0

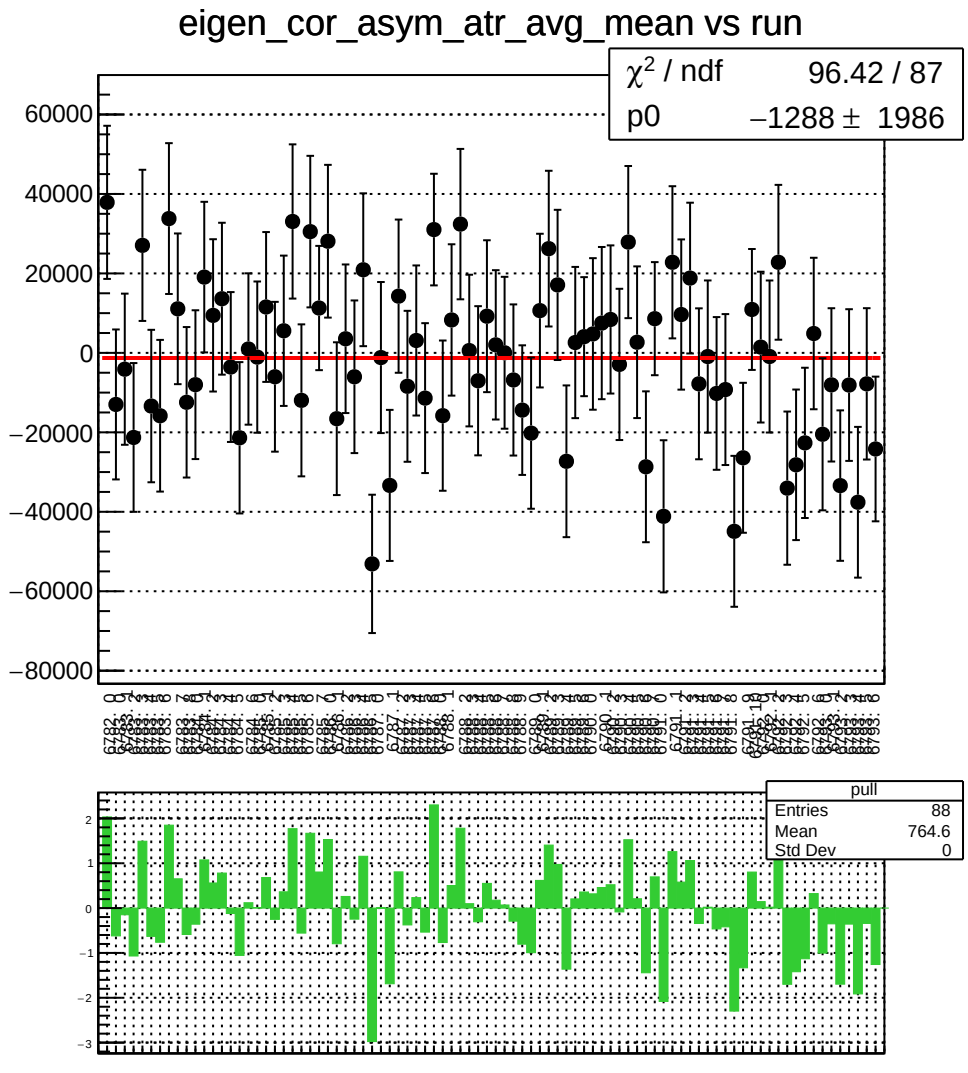

pull1D
Entries 88
Mean −0.01003
Std Dev 1.047

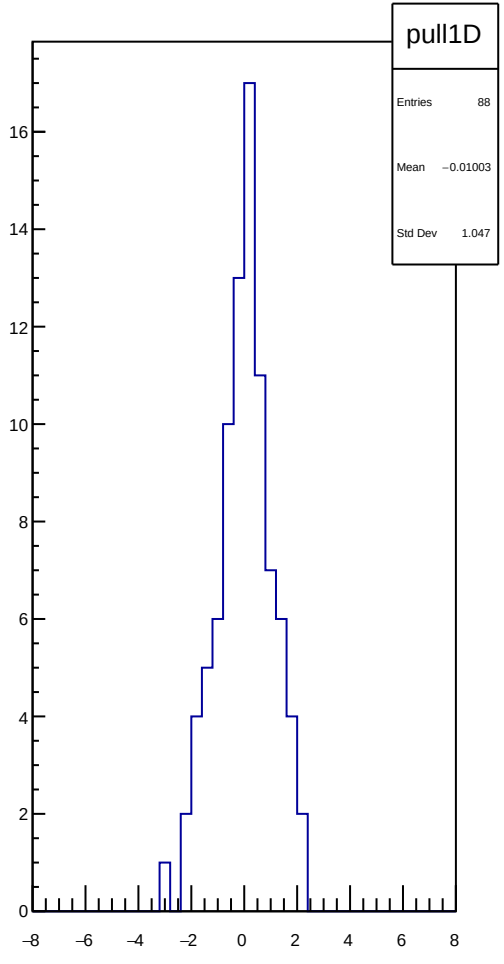

cor_asym_atr_avg_rms vs run
χ^2 / ndf 118.9 / 87
p0 1806 ± 1.404
1880
1860
1840
1820
1800
1780
1760

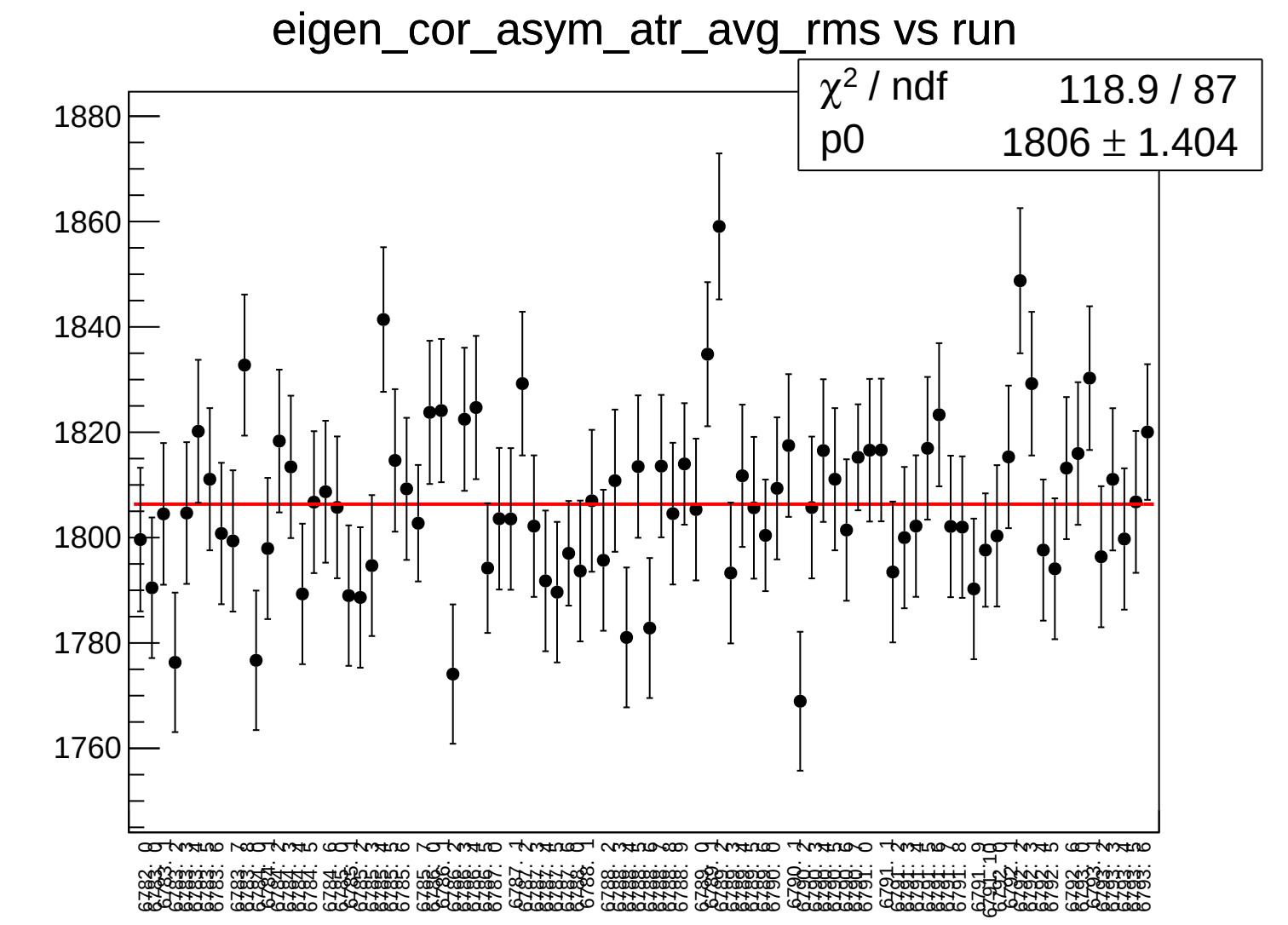

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.5 / 87
p0 −2023 ± 3783
100
50
0
−50
−100
−150
pull
Entries 88
Mean 15.55
Std Dev 0
2
1
0
−1
−2

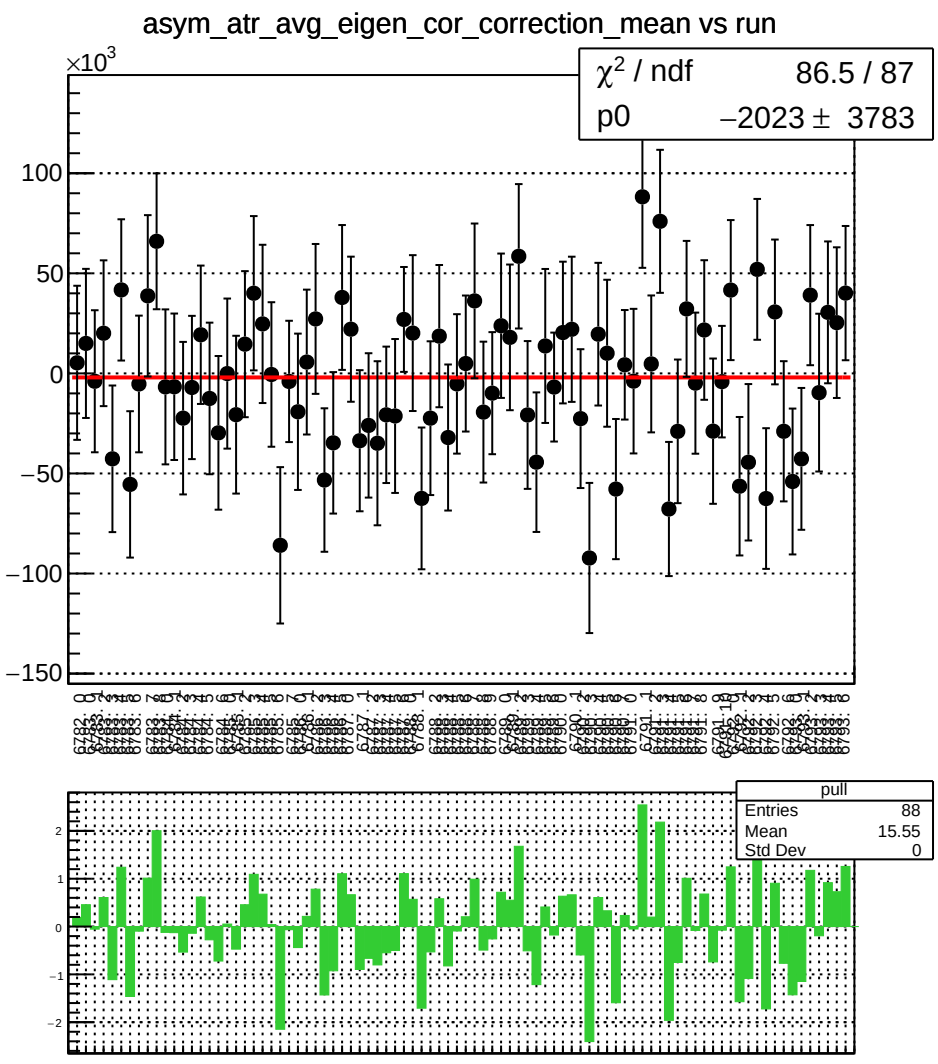

pull1D
Entries 88
Mean −0.007538
Std Dev 0.9914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

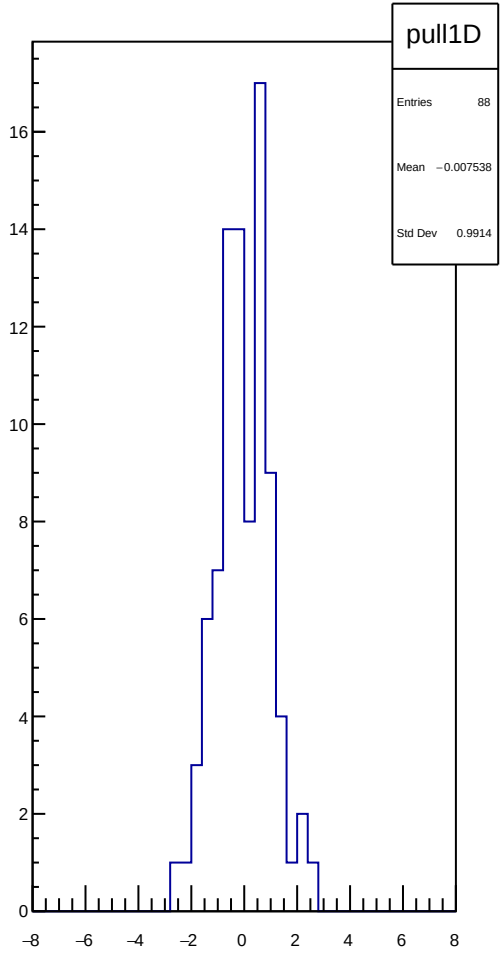

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3131 / 87
p0 3438 ± 2.675
3900
3800
3700
3600
3500
3400
3300
3200
3100

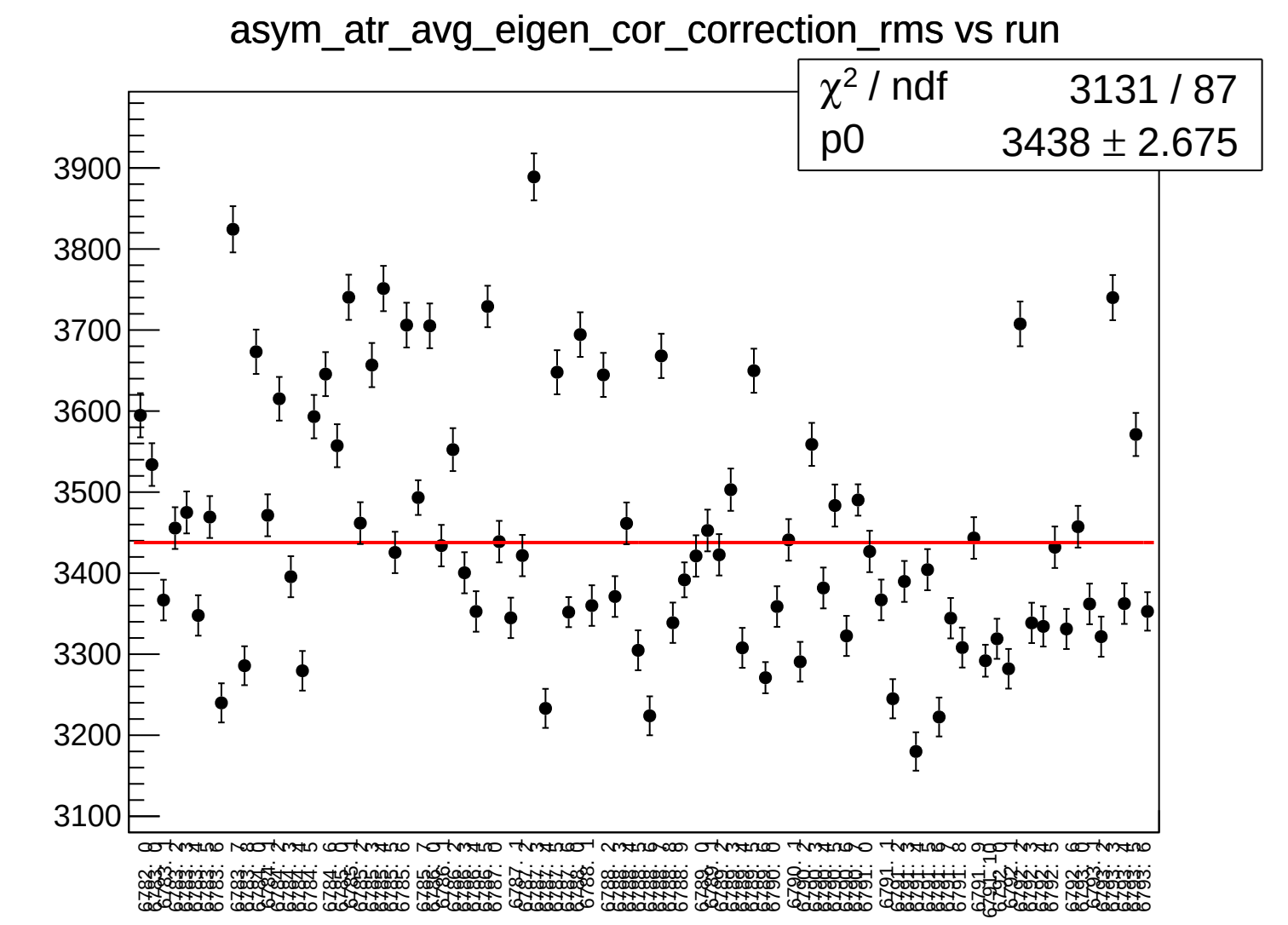

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 96.42 / 87
p0 −1288 ± 1986
pull
Entries 88
Mean 764.6
Std Dev 0

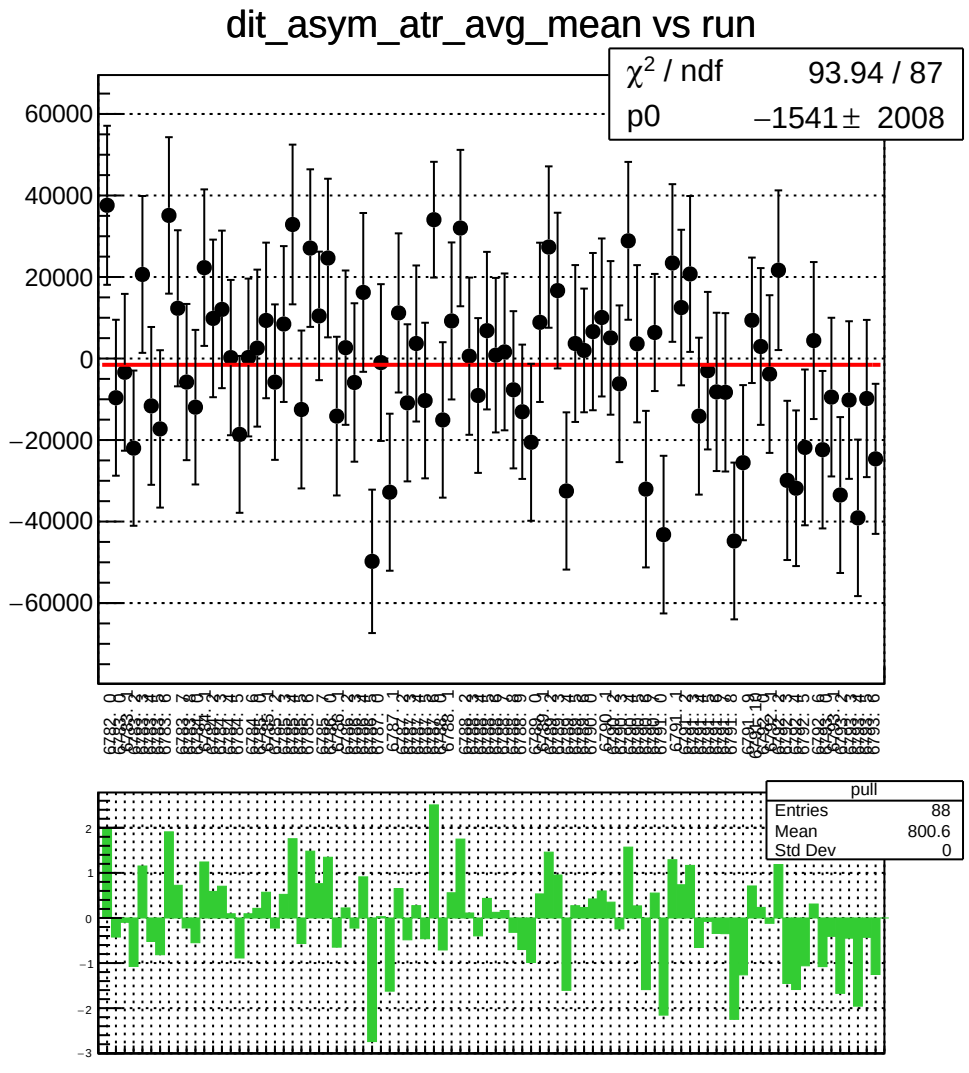

pull1D
Entries 88
Mean −0.01003
Std Dev 1.047

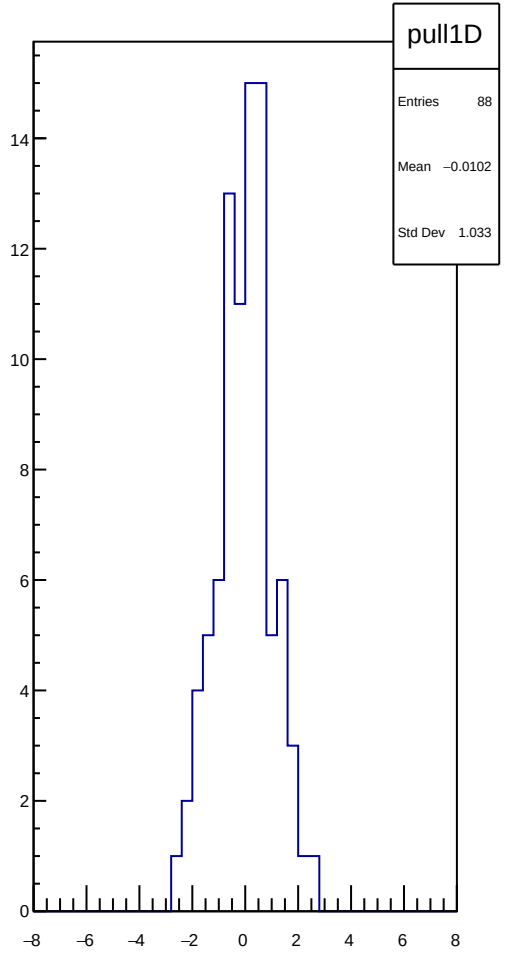

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 118.9 / 87
p0 1806 ± 1.404
1880
1860
1840
1820
1800
1780
1760

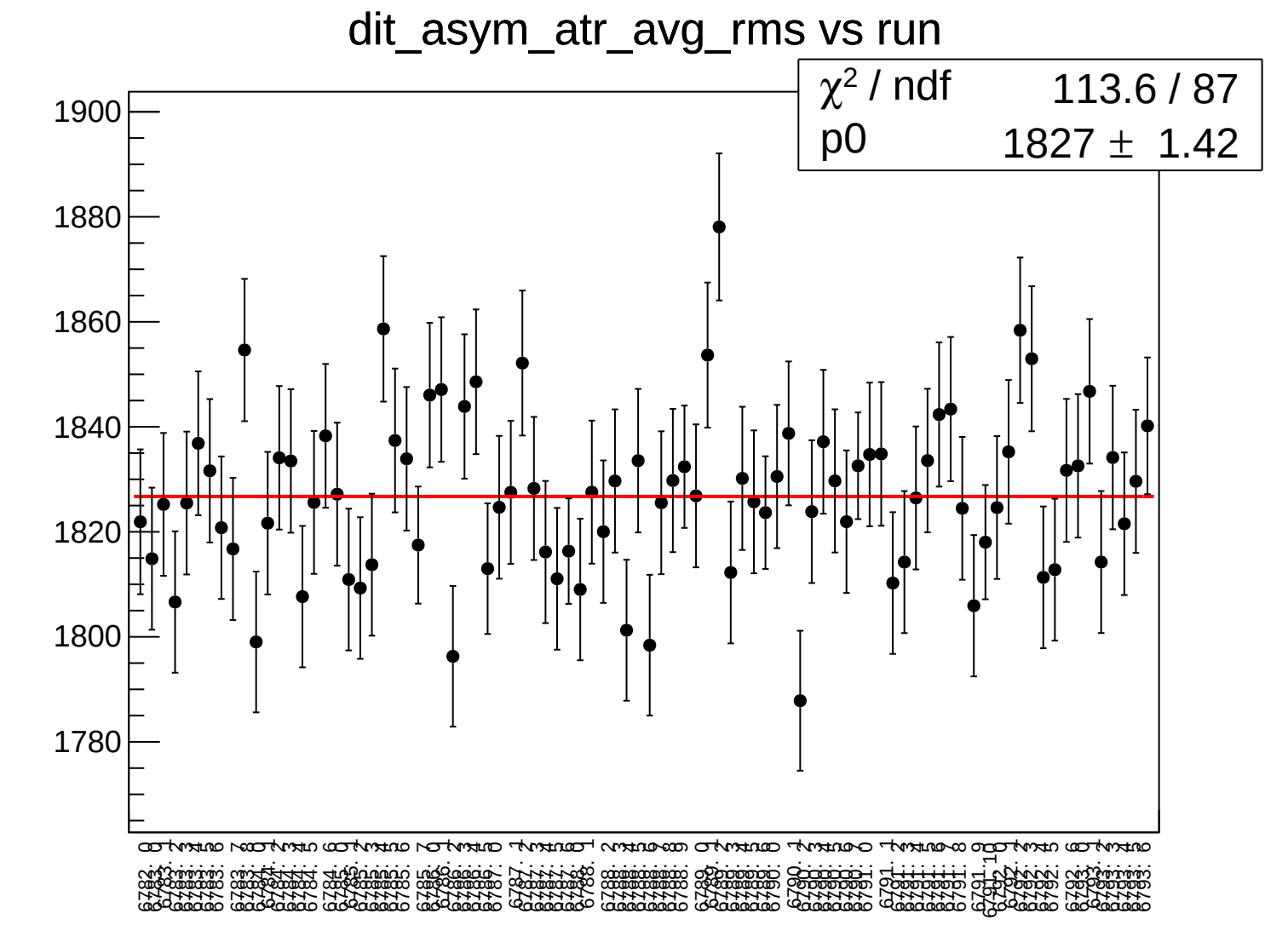

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.5 / 87
p0 −2023 ± 3783
×10³
100
50
0
−50
−100
−150
pull
Entries 88
Mean 15.55
Std Dev 0
2
1
0
−1
−2

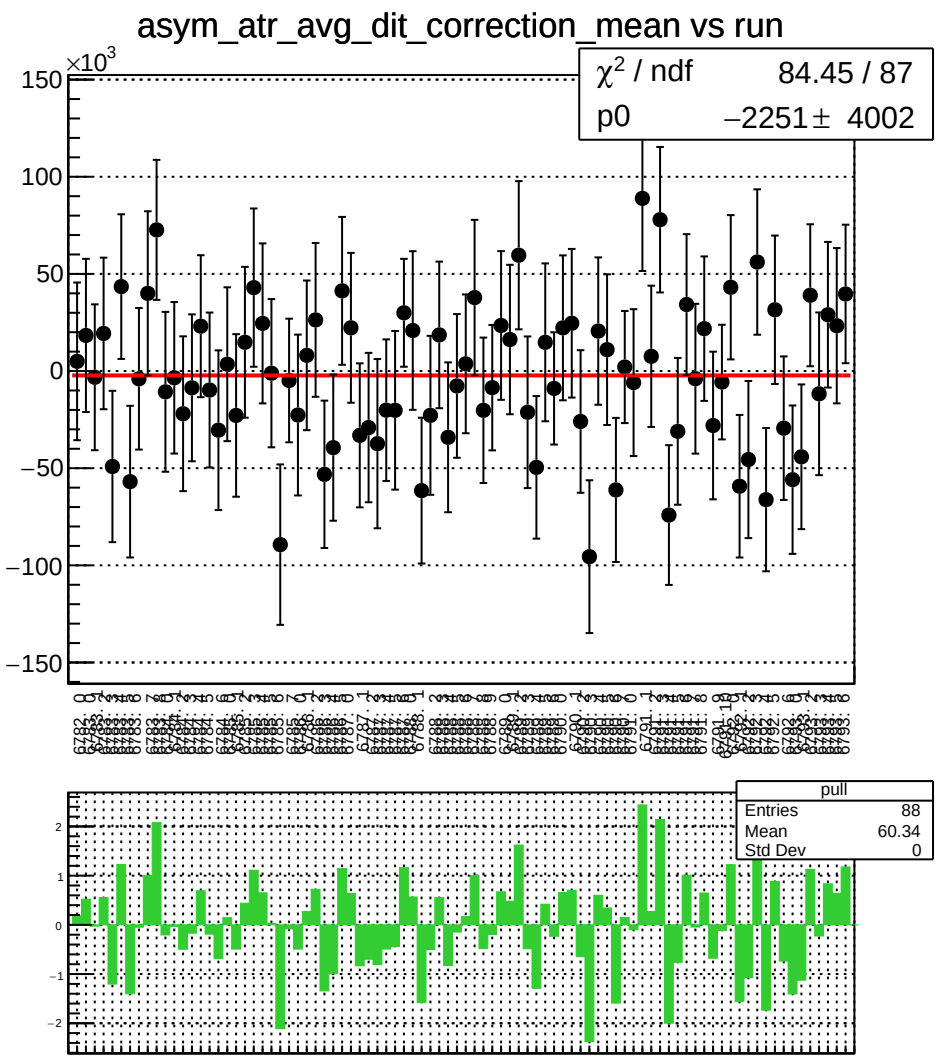

pull1D
Entries 88
Mean −0.007538
Std Dev 0.9914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

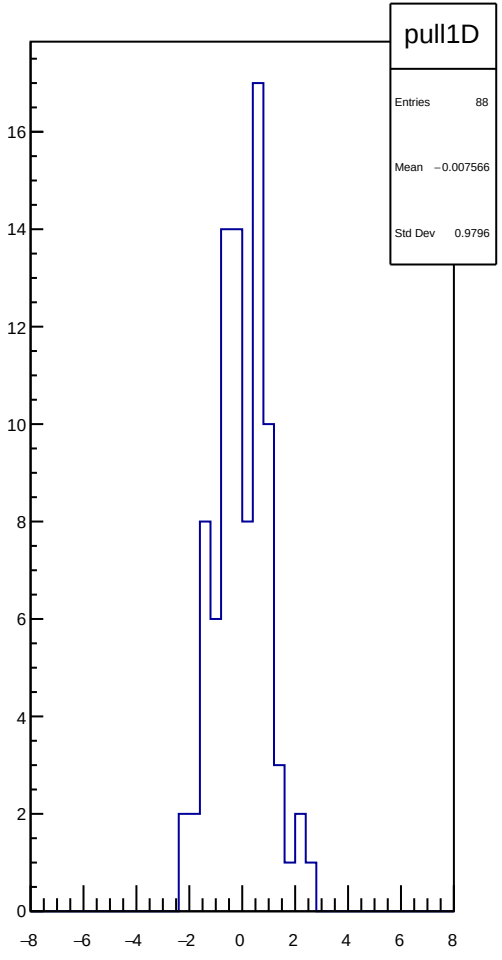

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3131 / 87
p0 3438 ± 2.675
3900
3800
3700
3600
3500
3400
3300
3200
3100

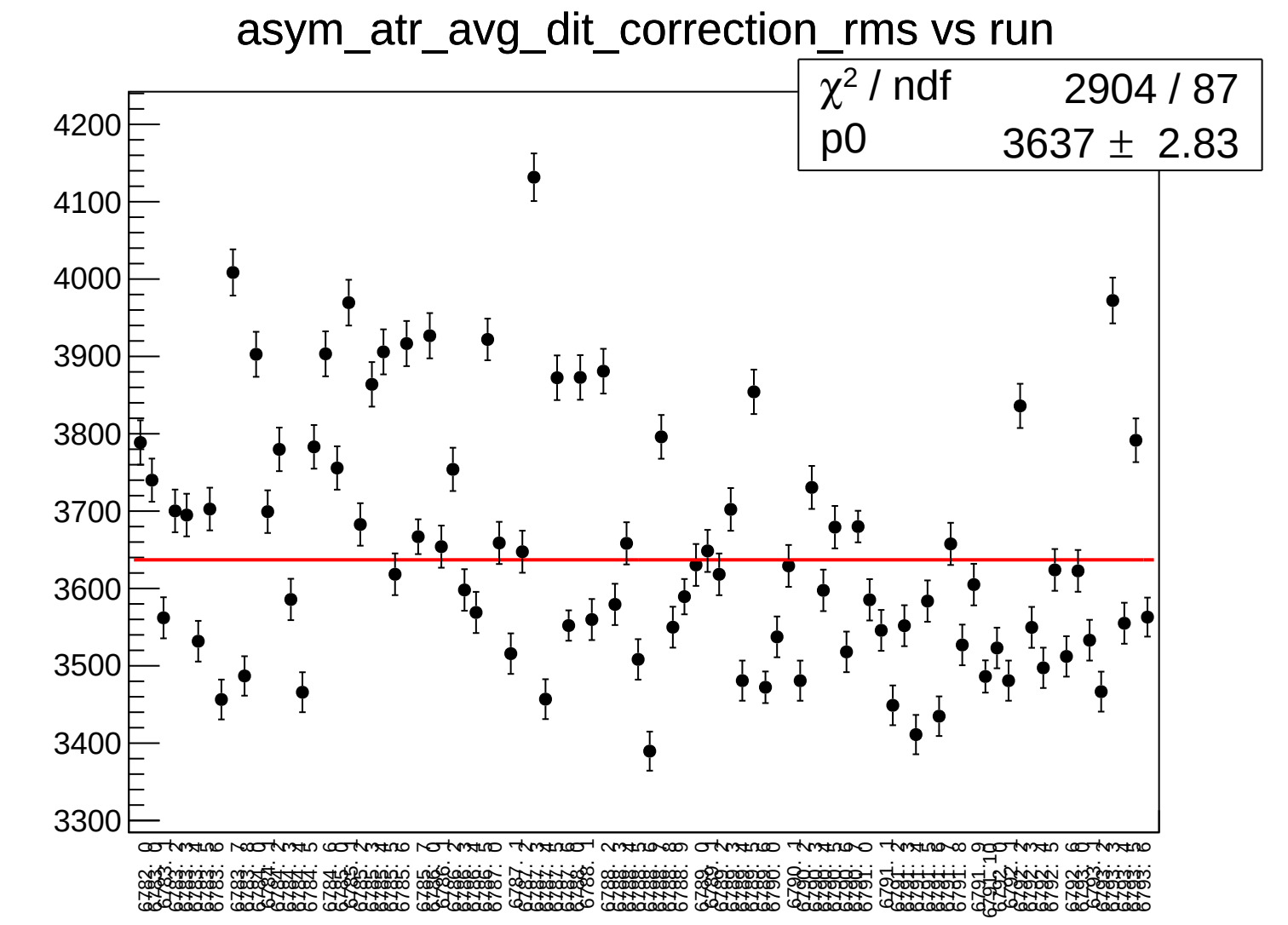

dit_asym_atr_avg_mean vs run
χ² / ndf 93.94 / 87
p0 −1541 ± 2008
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 800.6
Std Dev 0
2
1
0
−1
−2
−3

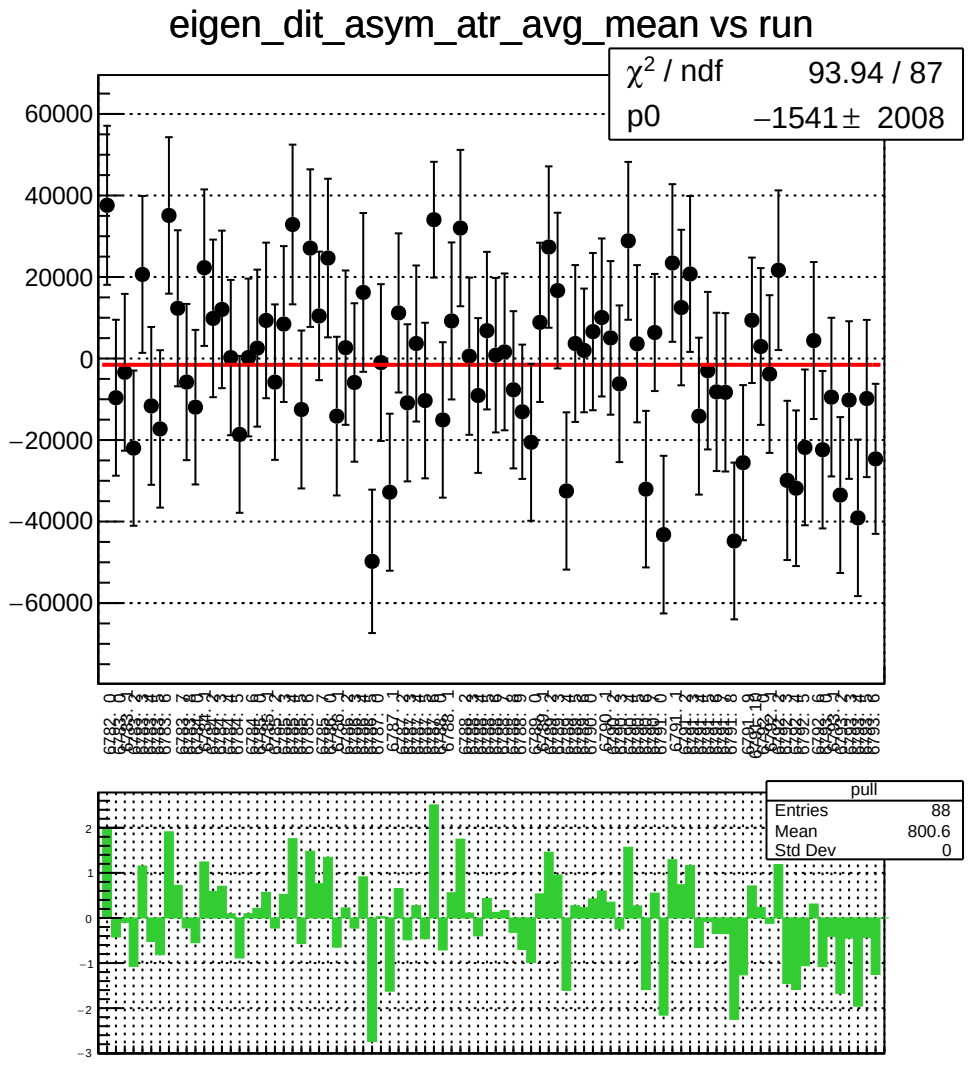

pull1D
Entries 88
Mean −0.0102
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

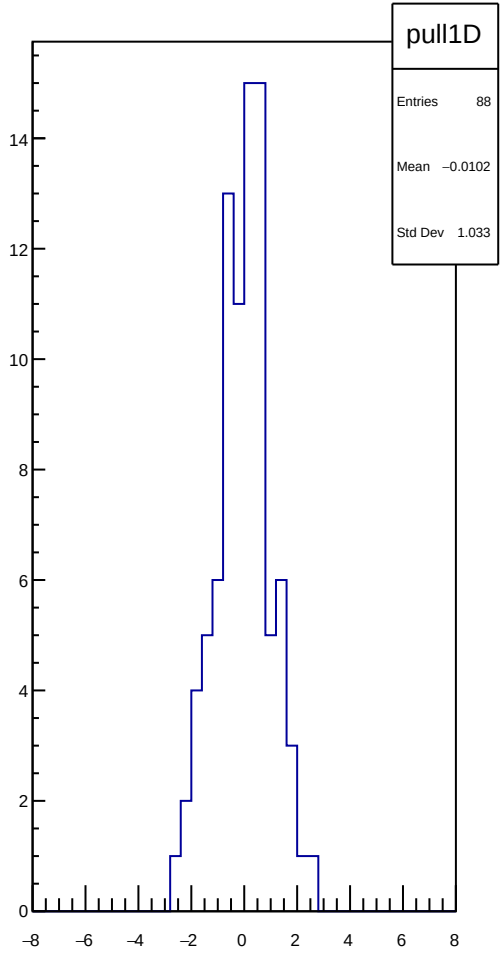

dit_asym_atr_avg_rms vs run
χ² / ndf 113.6 / 87
p0 1827 ± 1.42
1900
1880
1860
1840
1820
1800
1780

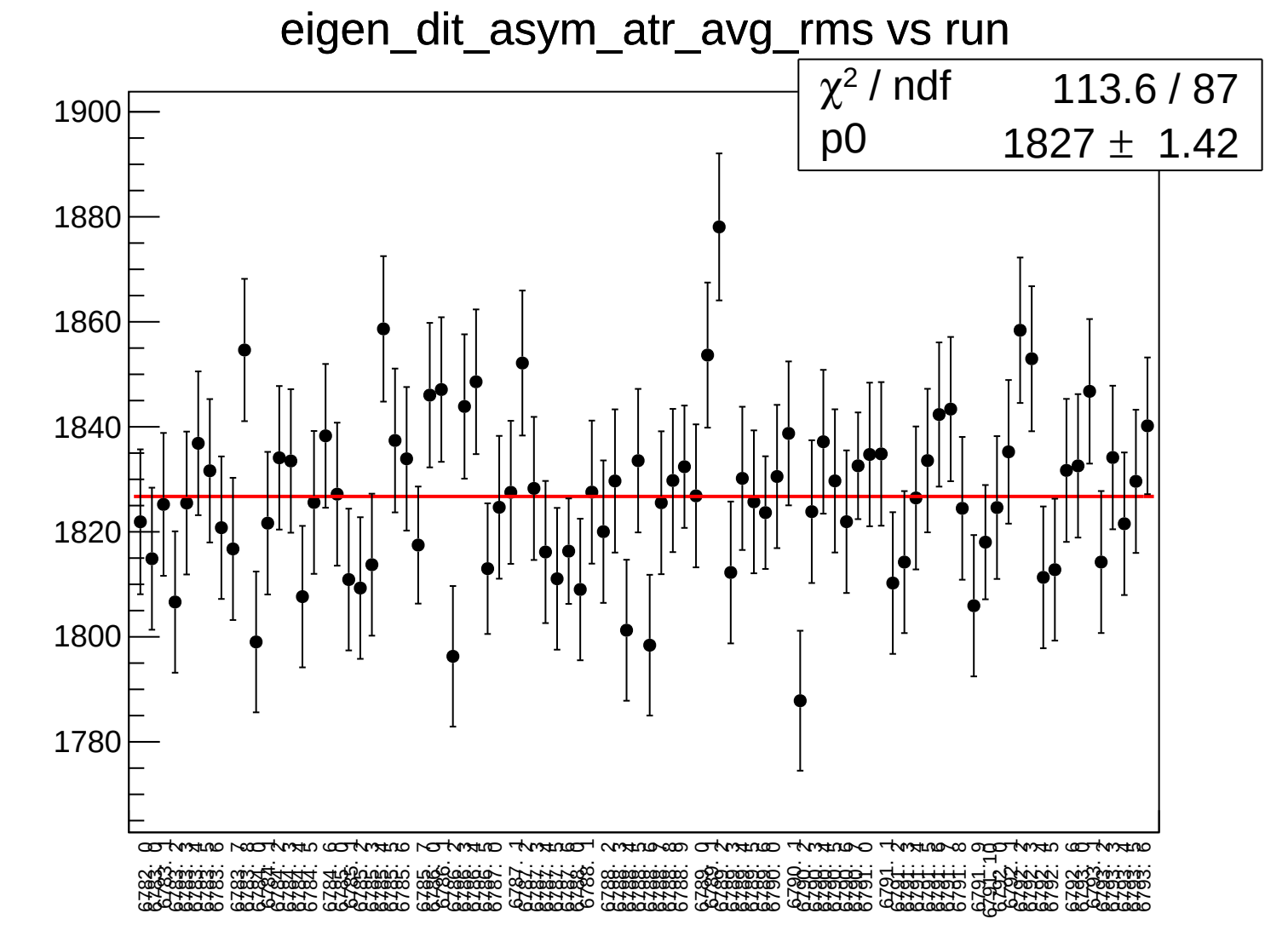

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.45 / 87
p0 −2251 ± 4002
pull
Entries 88
Mean 60.34
Std Dev 0

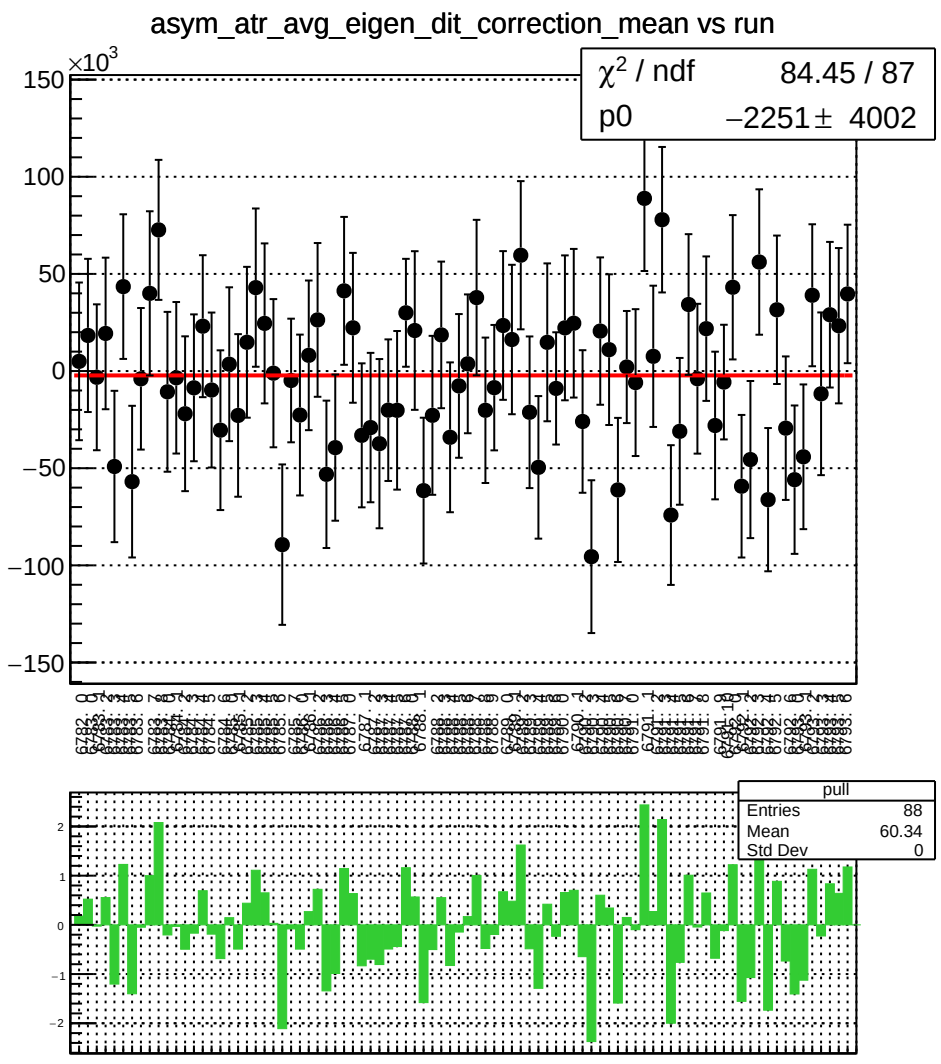

pull1D
Entries 88
Mean −0.007566
Std Dev 0.9796

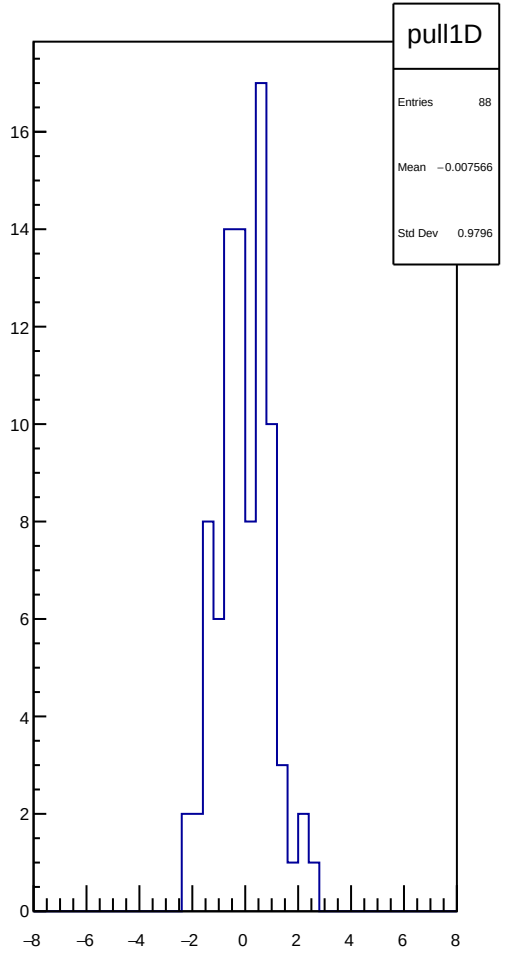

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2904 / 87
p0 3637 ± 2.83
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300

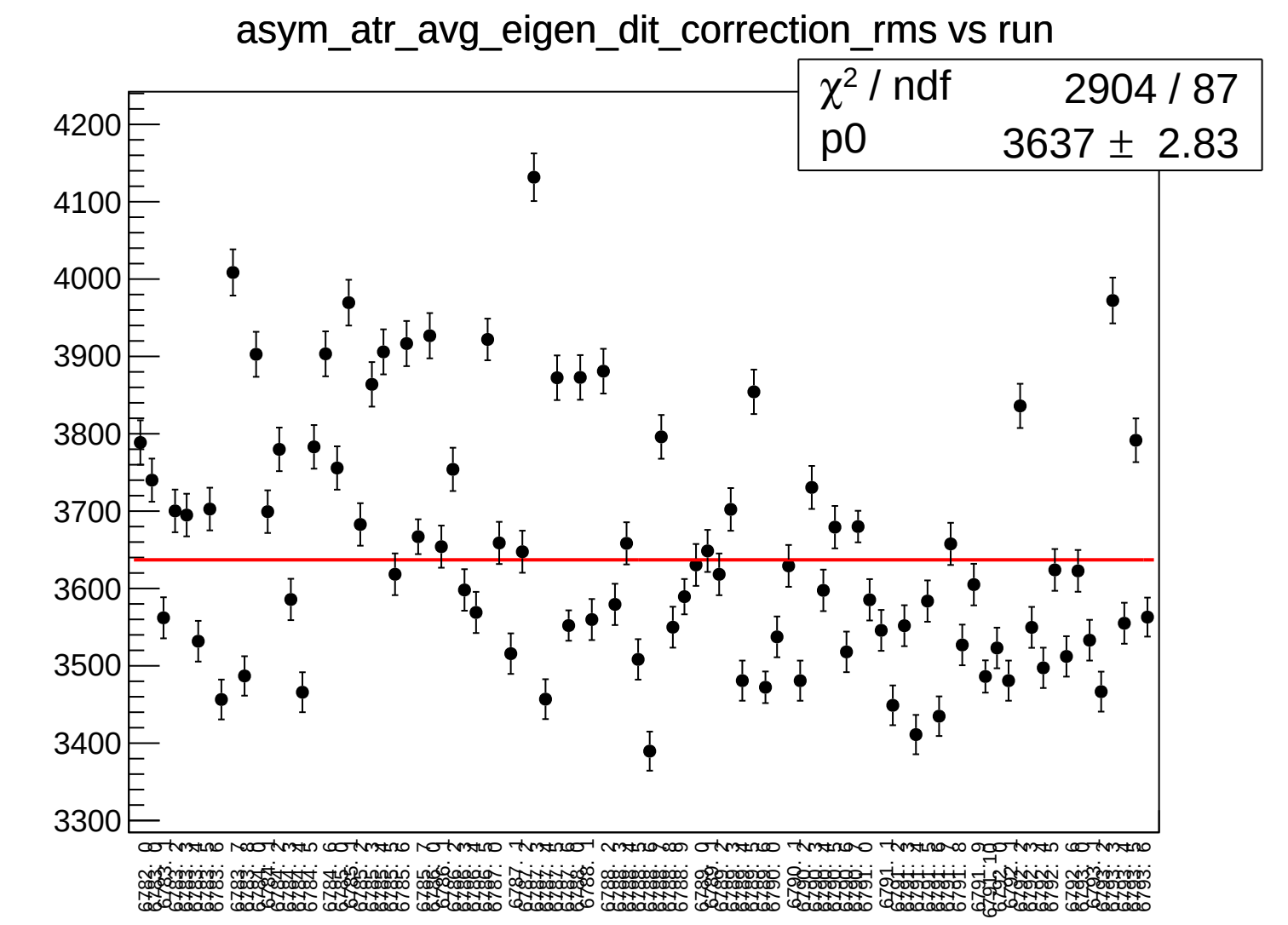

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 93.94 / 87
p0 −1541 ± 2008
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 800.6
Std Dev 0
2
1
0
−1
−2
−3

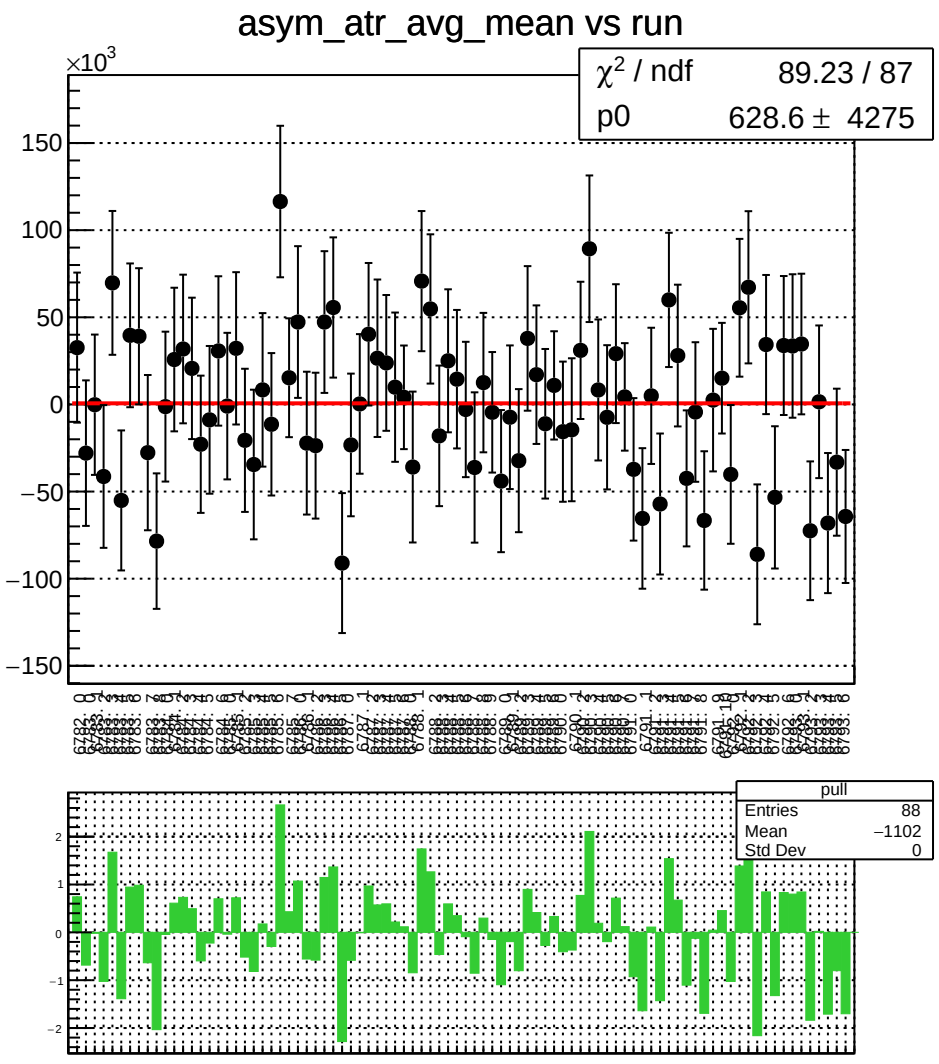

pull1D
Entries 88
Mean −0.0102
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

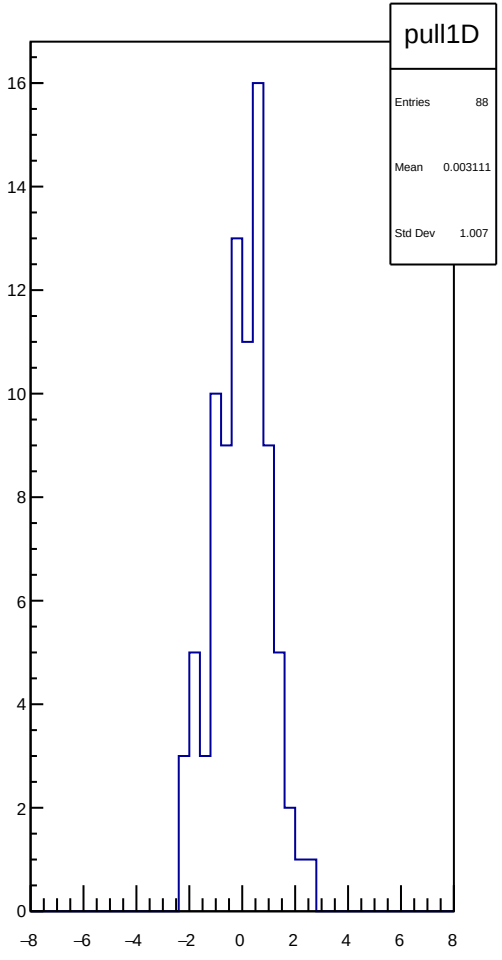

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 113.6 / 87
p0 1827 ± 1.42
1900
1880
1860
1840
1820
1800
1780

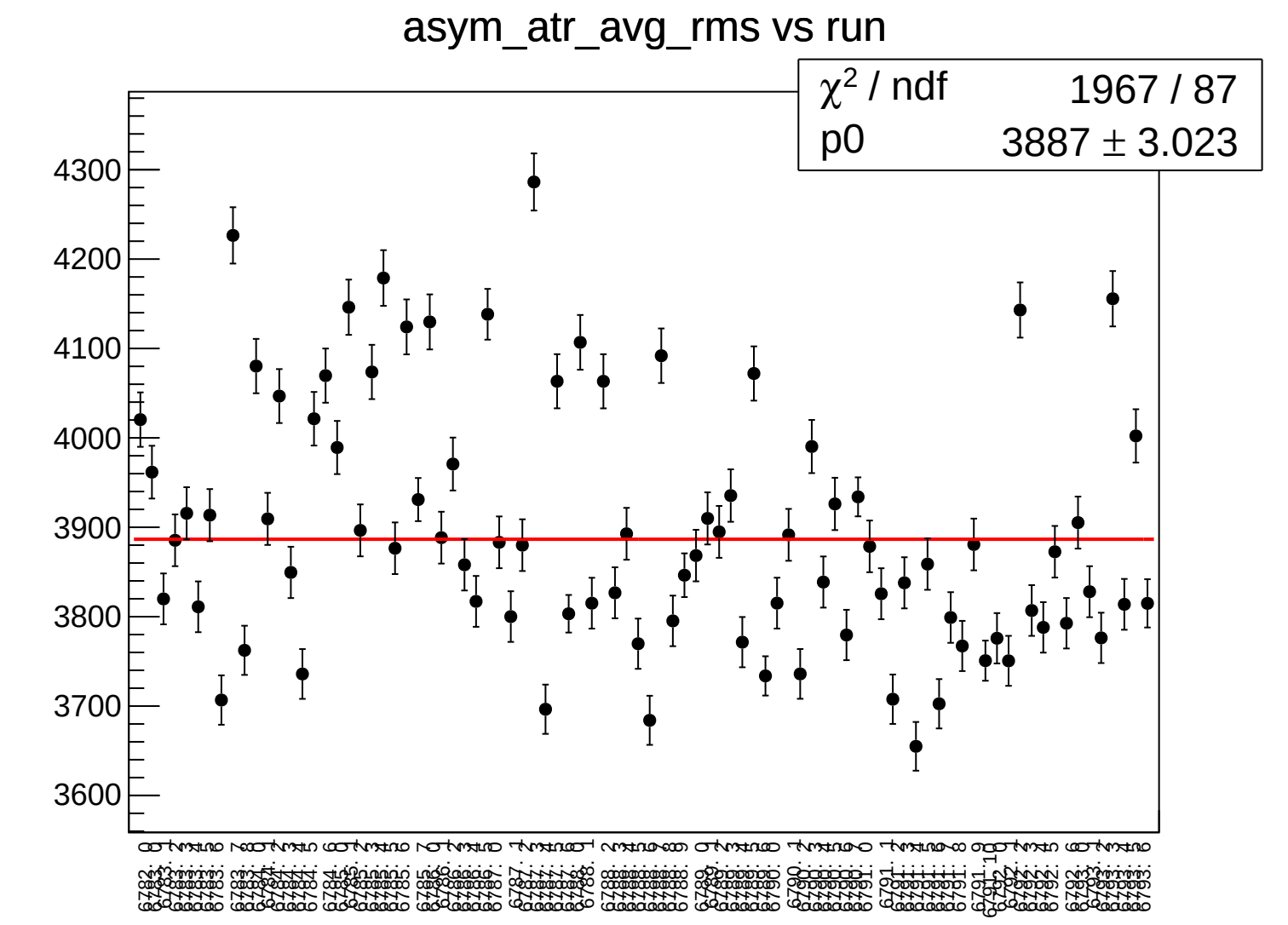

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.45 / 87
p0 −2251 ± 4002
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 60.34
Std Dev 0
2
1
0
−1
−2

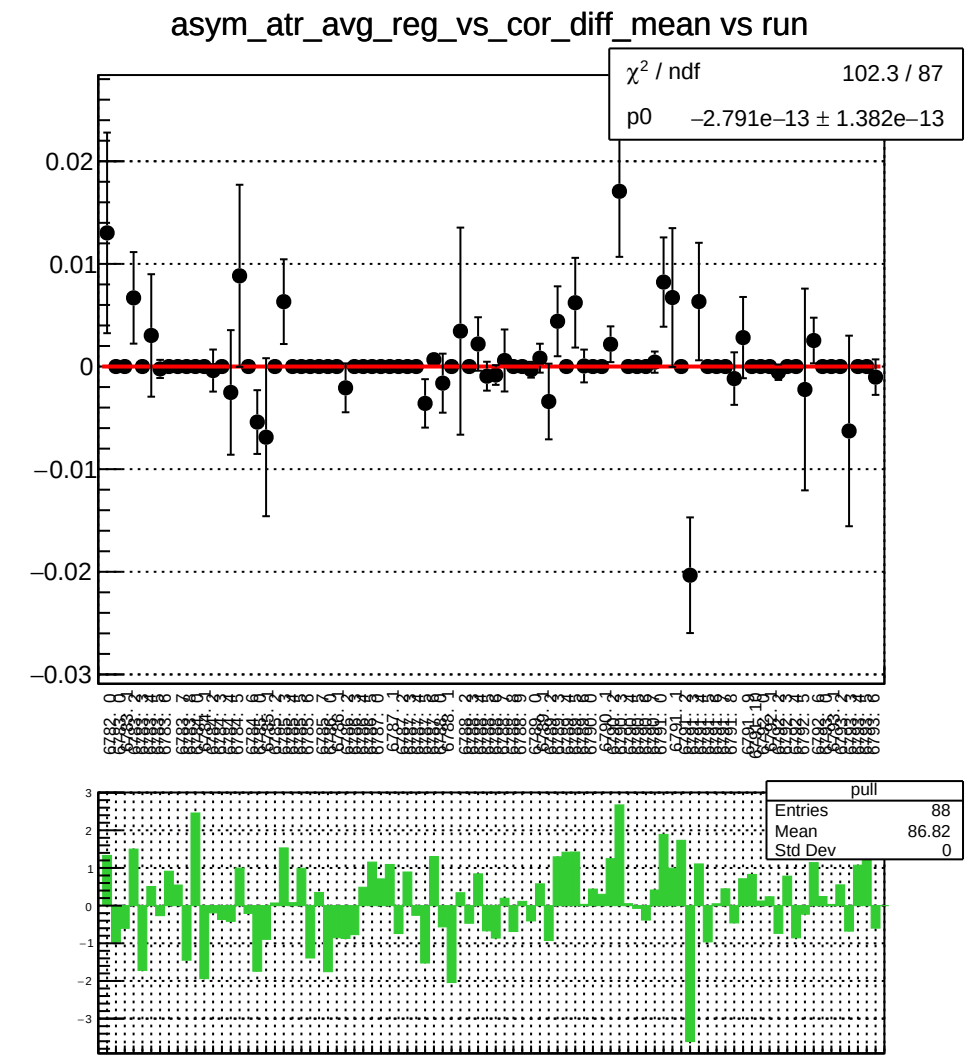

pull1D
Entries 88
Mean −0.007566
Std Dev 0.9796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

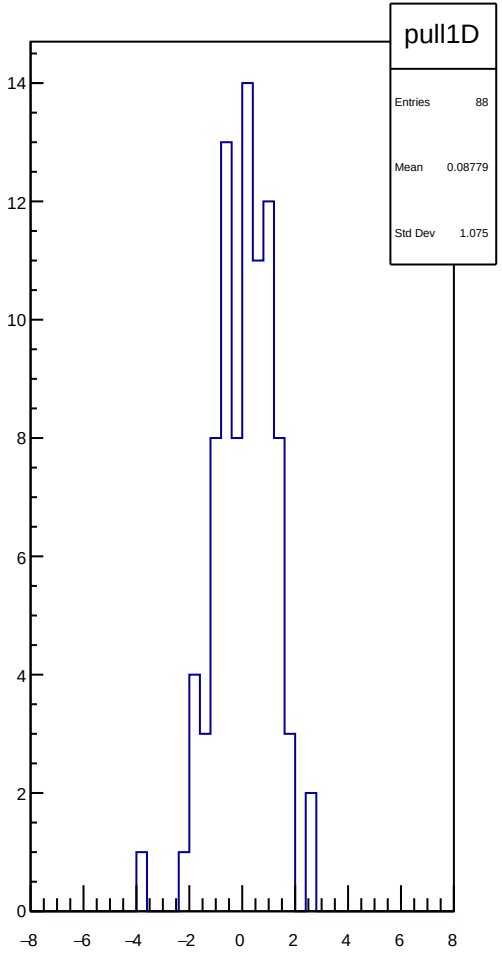

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2904 / 87
p0 3637 ± 2.83
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300

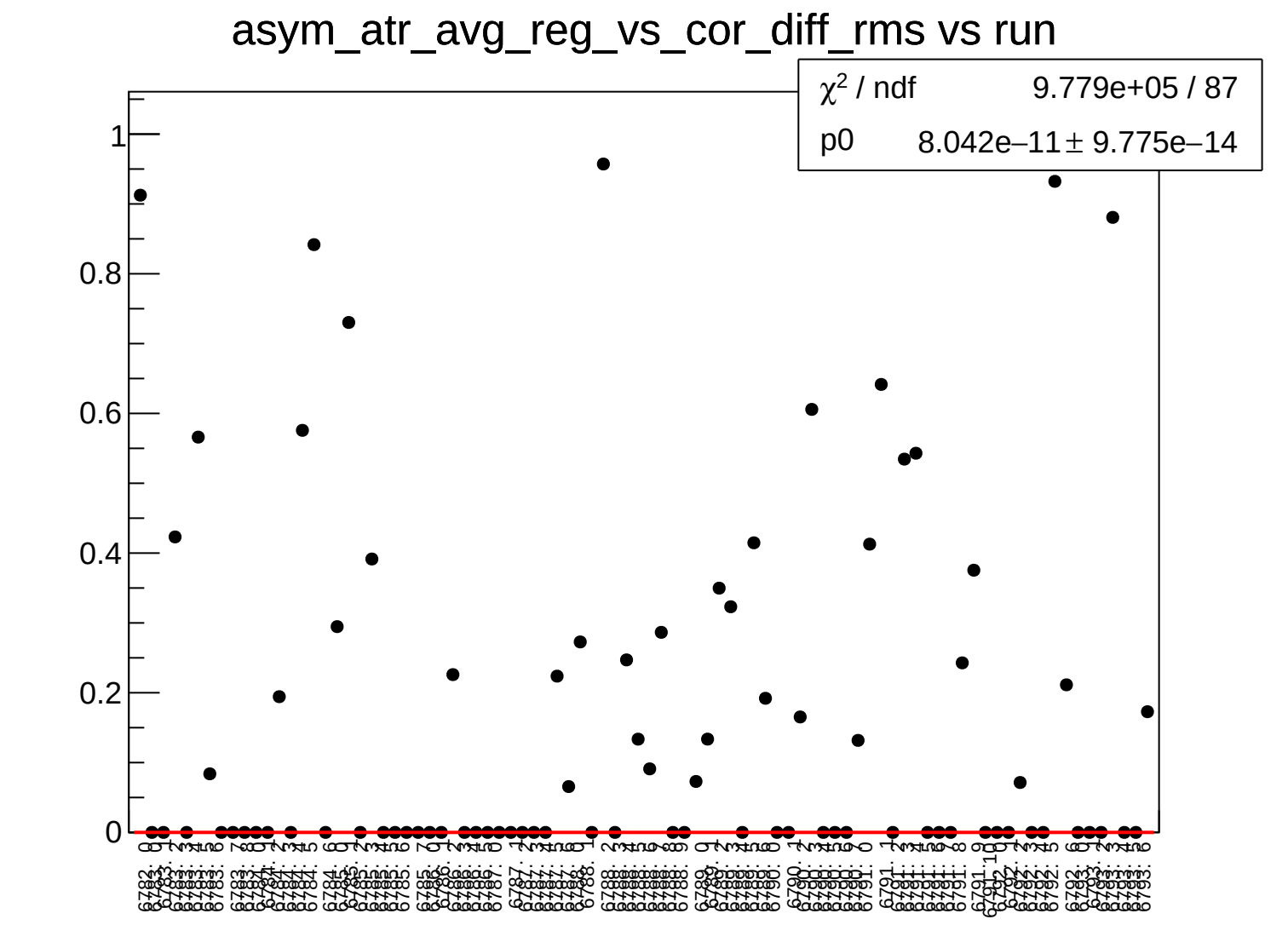

asym_atr_avg_mean vs run
×10^3
χ² / ndf 89.23 / 87
p0 628.6 ± 4275
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1102
Std Dev 0
2
1
0
−1
−2

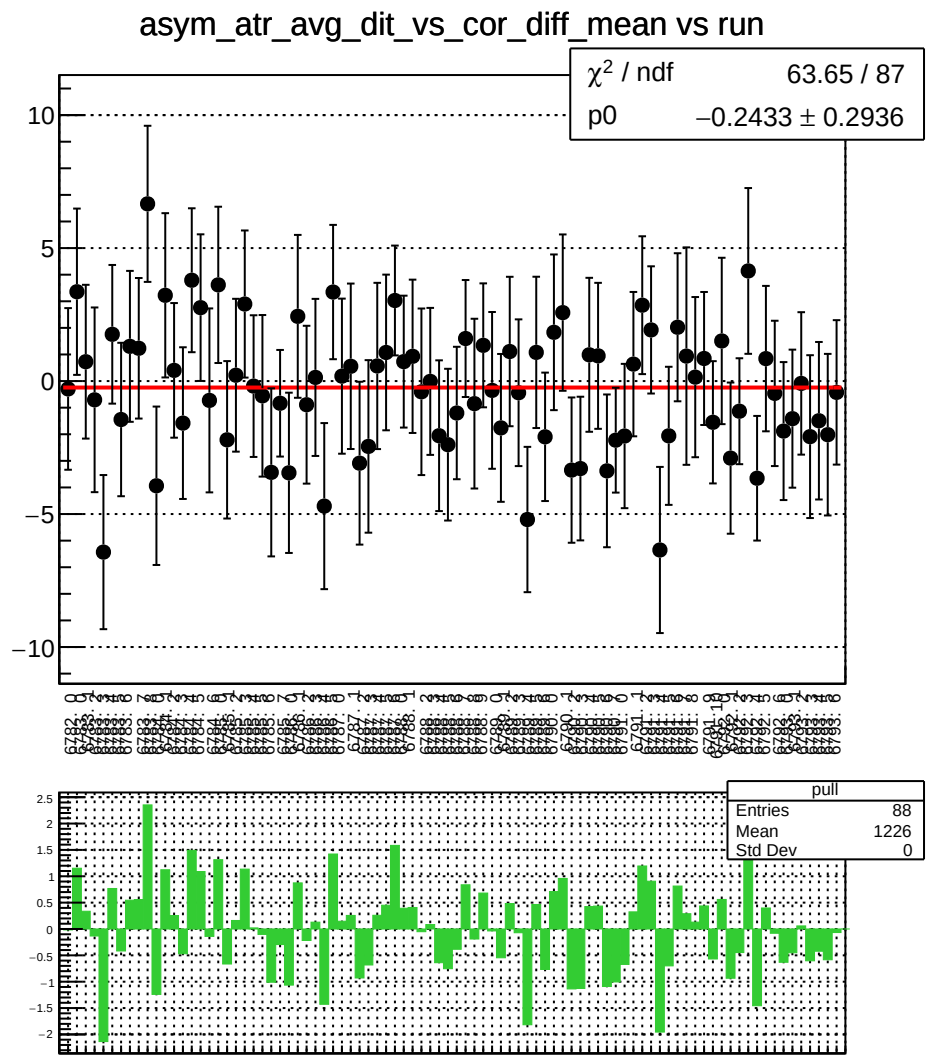

pull1D
Entries 88
Mean 0.003111
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

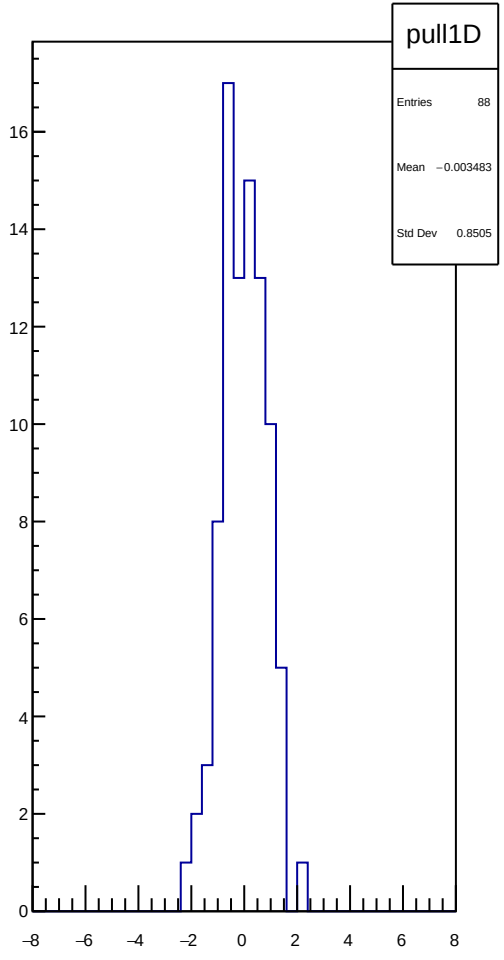

asym_atr_avg_rms vs run
χ^2 / ndf 1967 / 87
p0 3887 ± 3.023
4300
4200
4100
4000
3900
3800
3700
3600

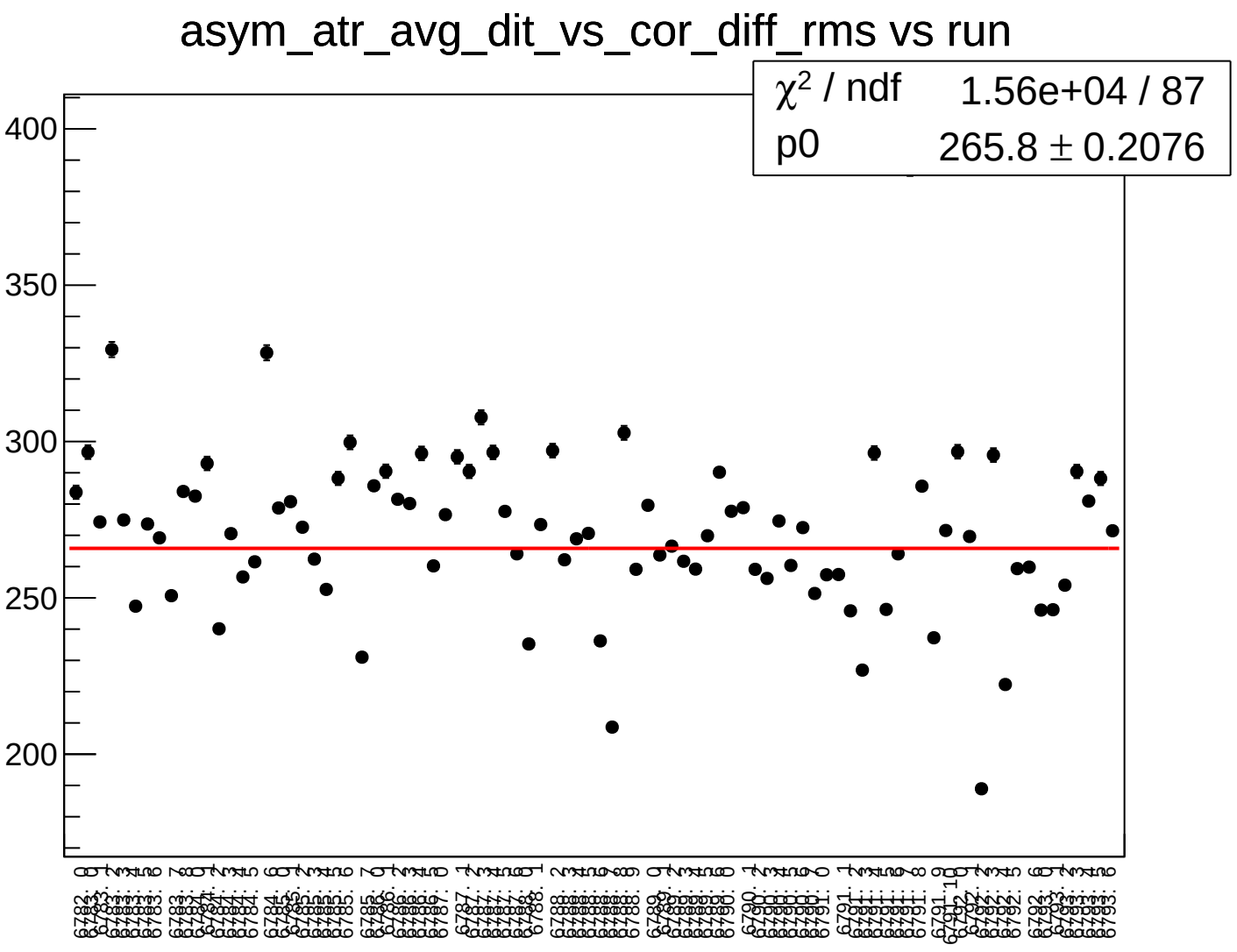

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 87
p0 −2.791e−13 ± 1.382e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 86.82
Std Dev 0
3
2
1
0
−1
−2
−3

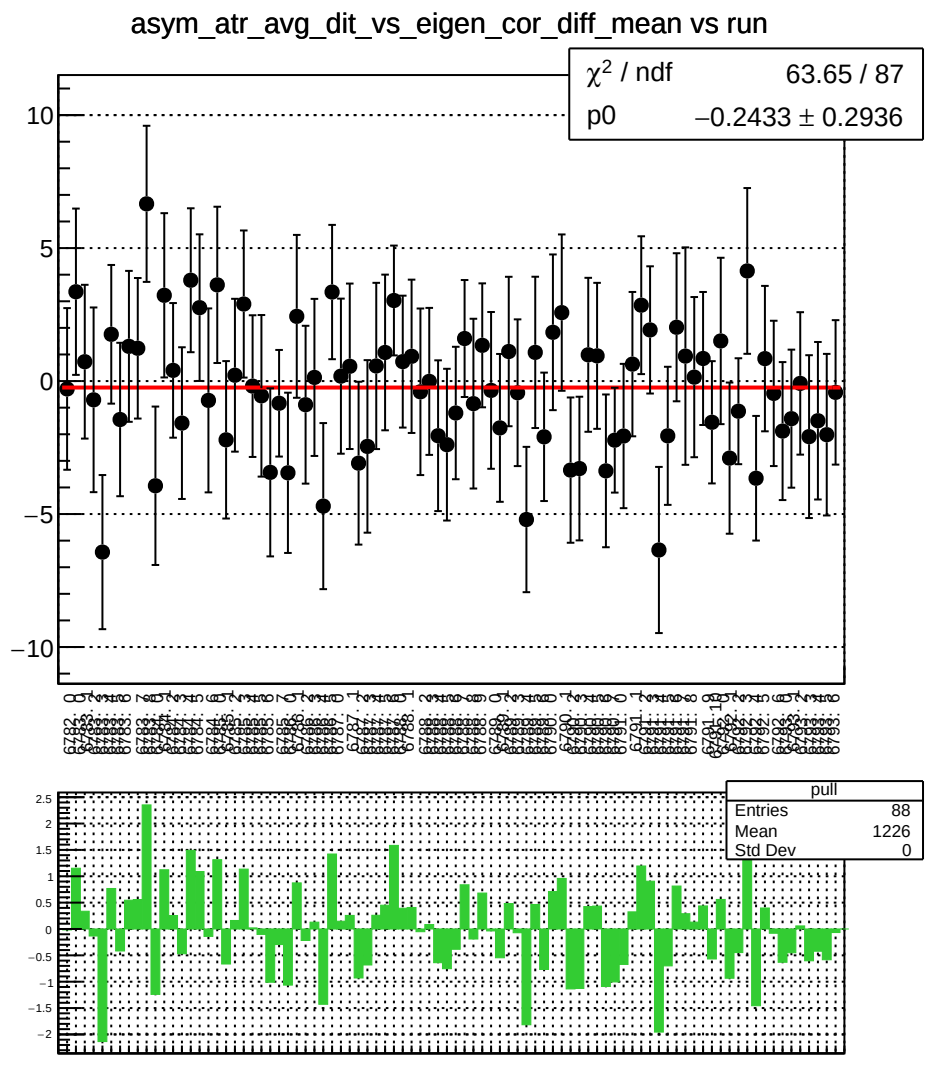

pull1D
Entries 88
Mean 0.08779
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

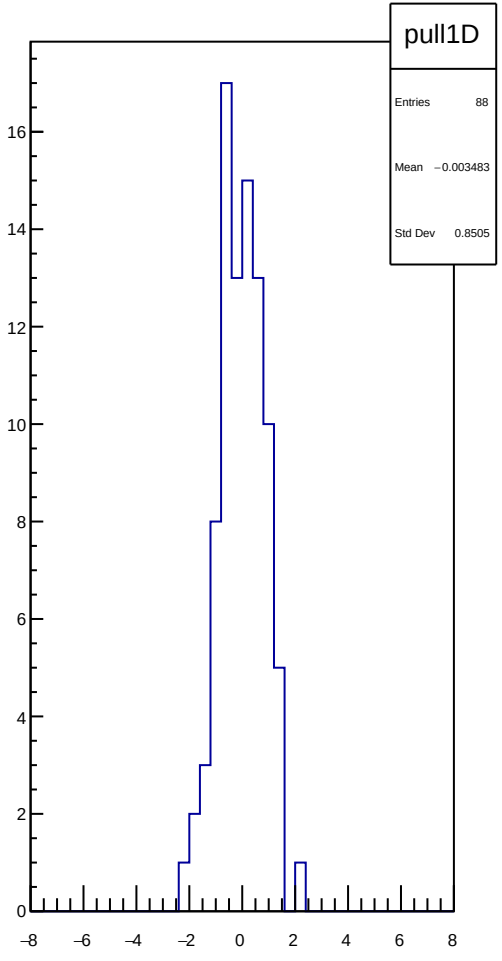

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.779e+05 / 87
p0 8.042e−11 ± 9.775e−14
1
0.8
0.6
0.4
0.2
0

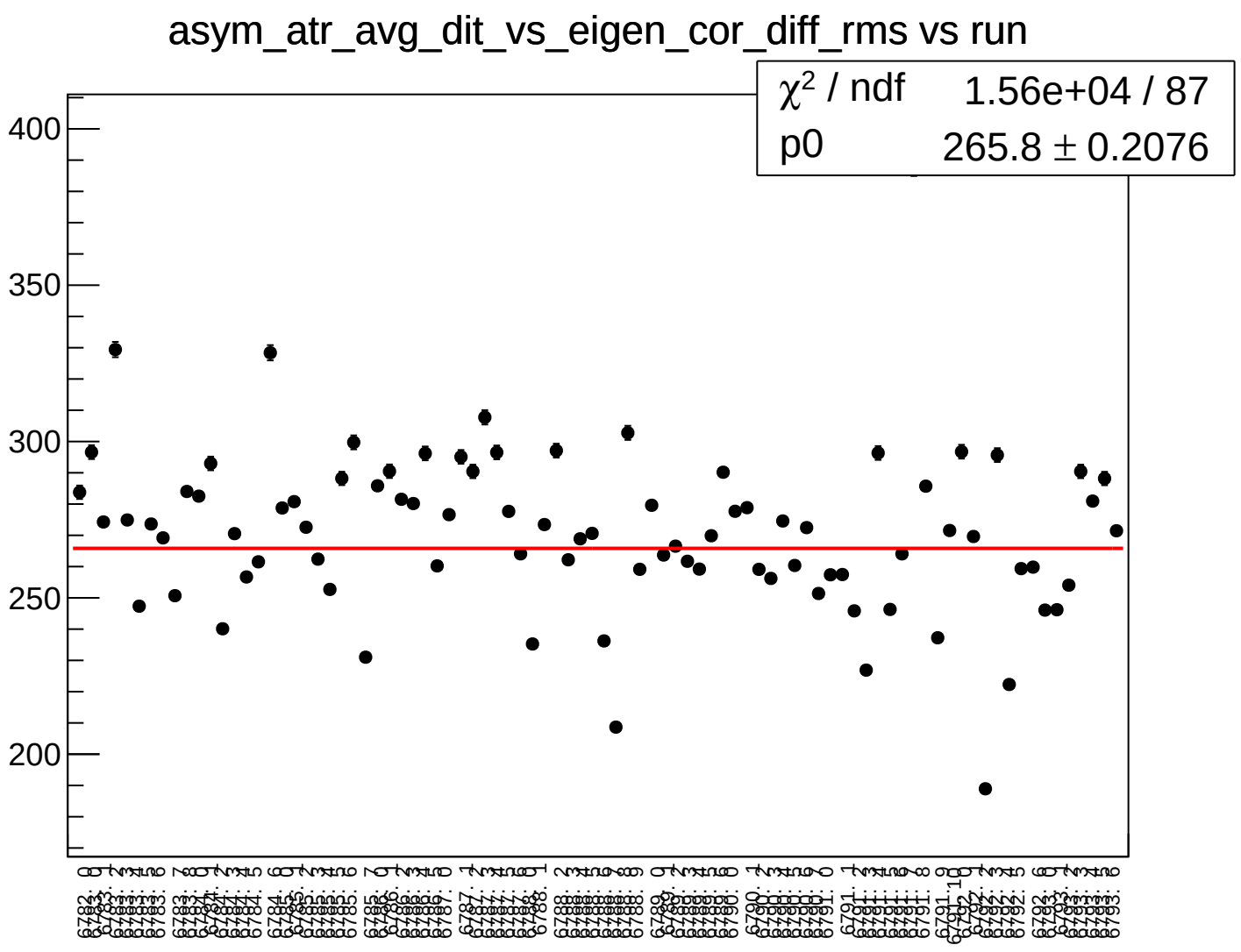

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.65 / 87
p0 −0.2433 ± 0.2936
pull
Entries 88
Mean 1226
Std Dev 0

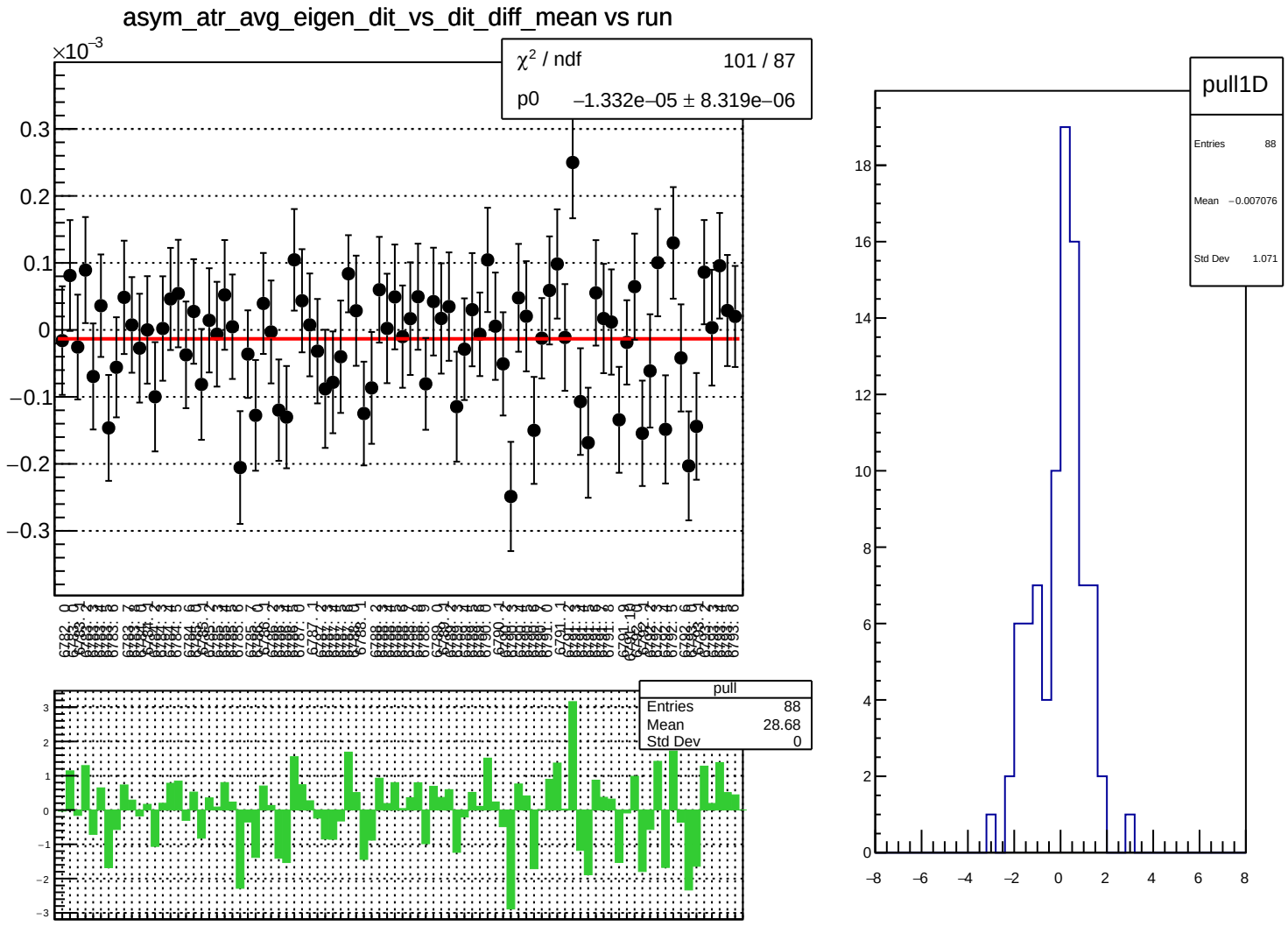

pull1D
Entries 88
Mean −0.003483
Std Dev 0.8505

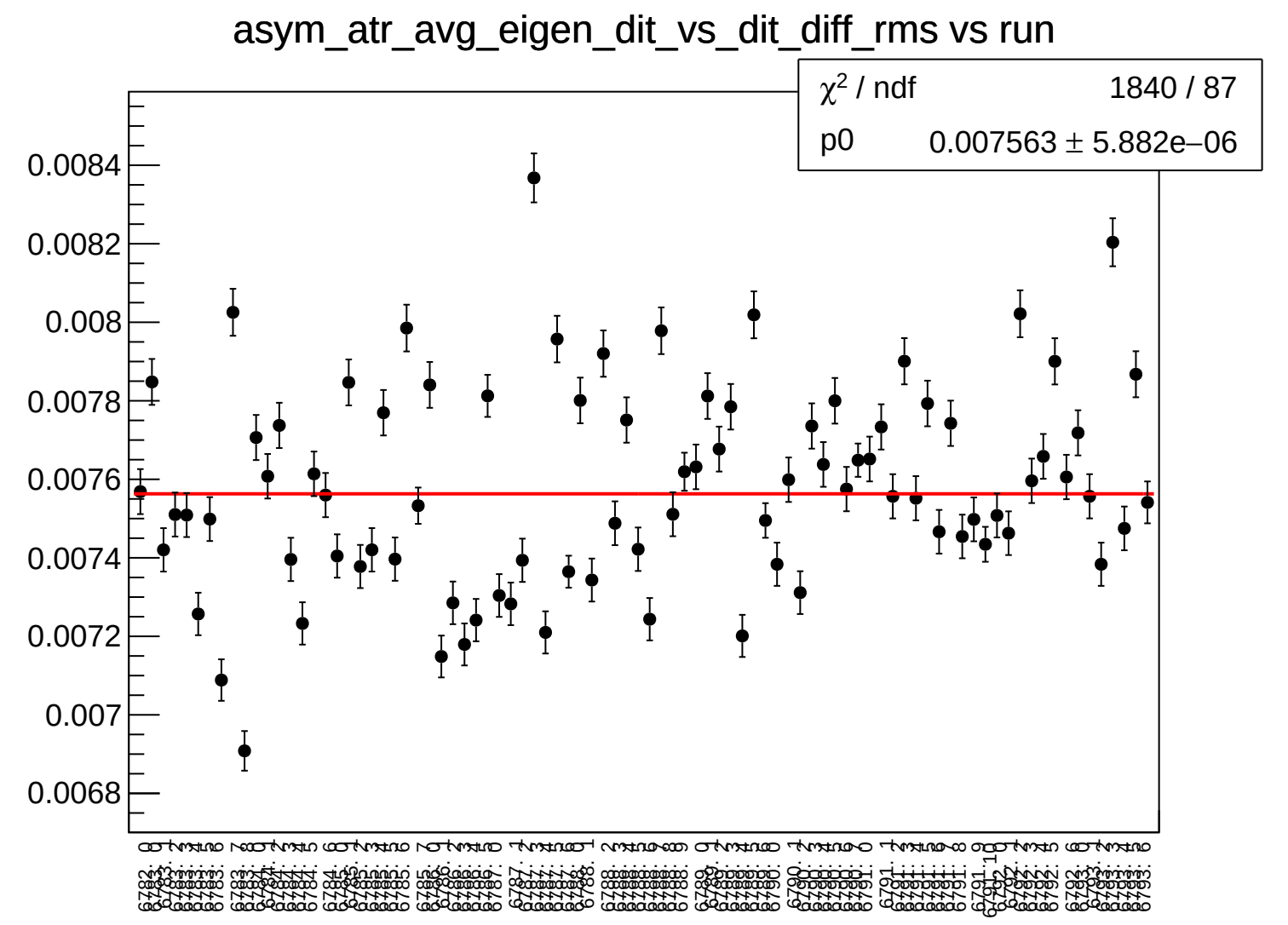

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.56e+04 / 87
p0 265.8 ± 0.2076
400
350
300
250
200

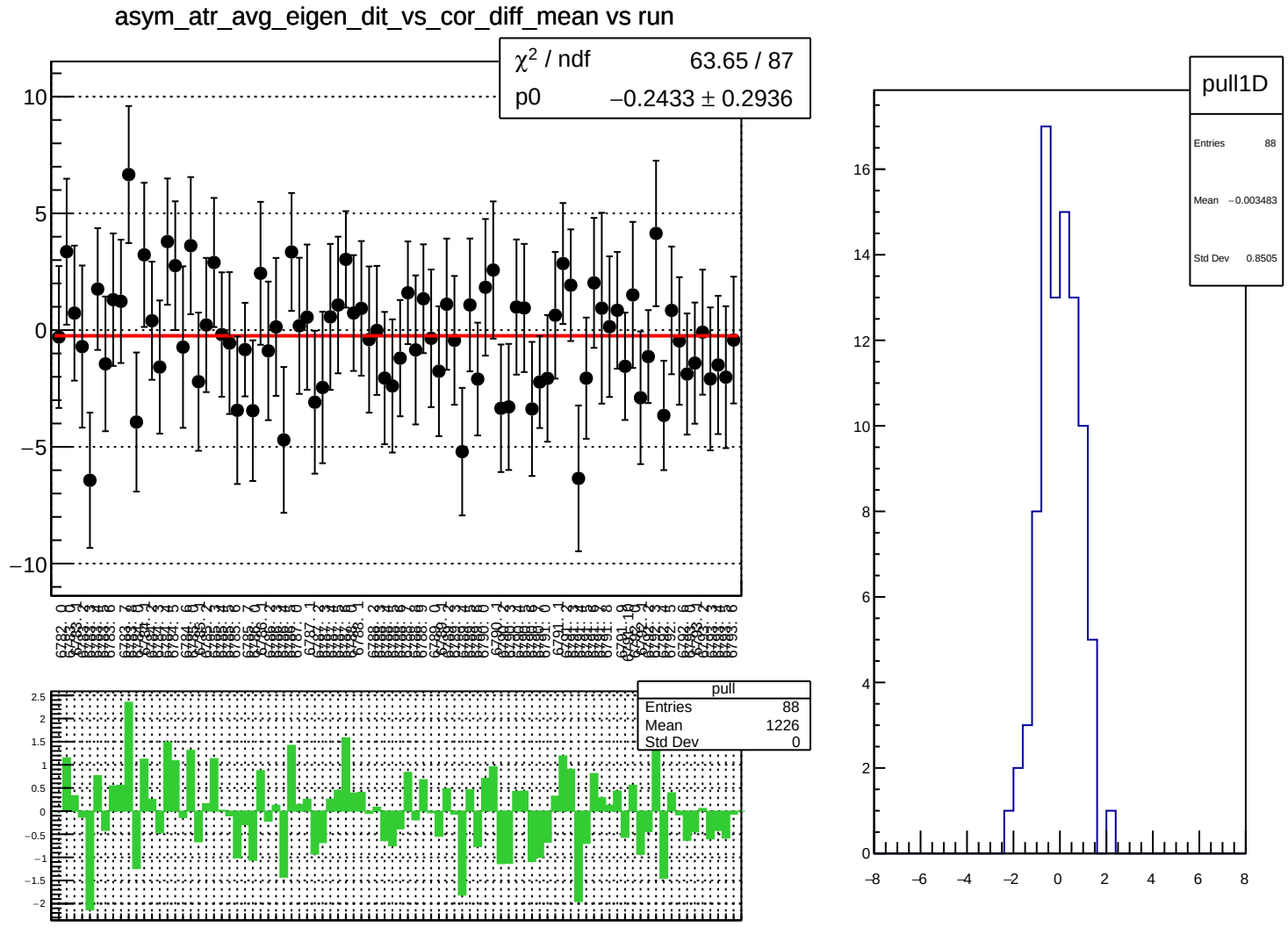

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.65 / 87
p0 −0.2433 ± 0.2936
pull
Entries 88
Mean 1226
Std Dev 0

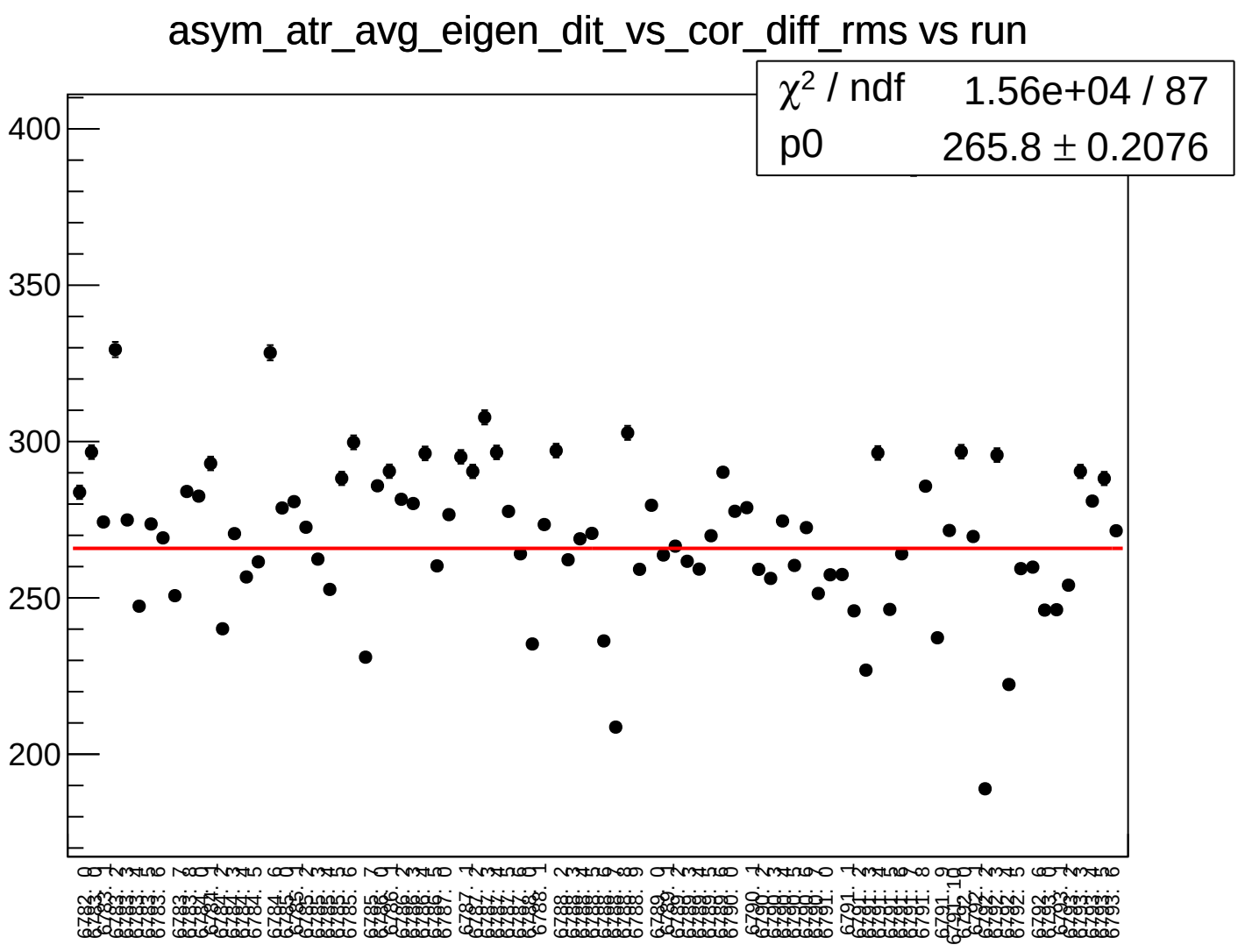

pull1D
Entries 88
Mean −0.003483
Std Dev 0.8505

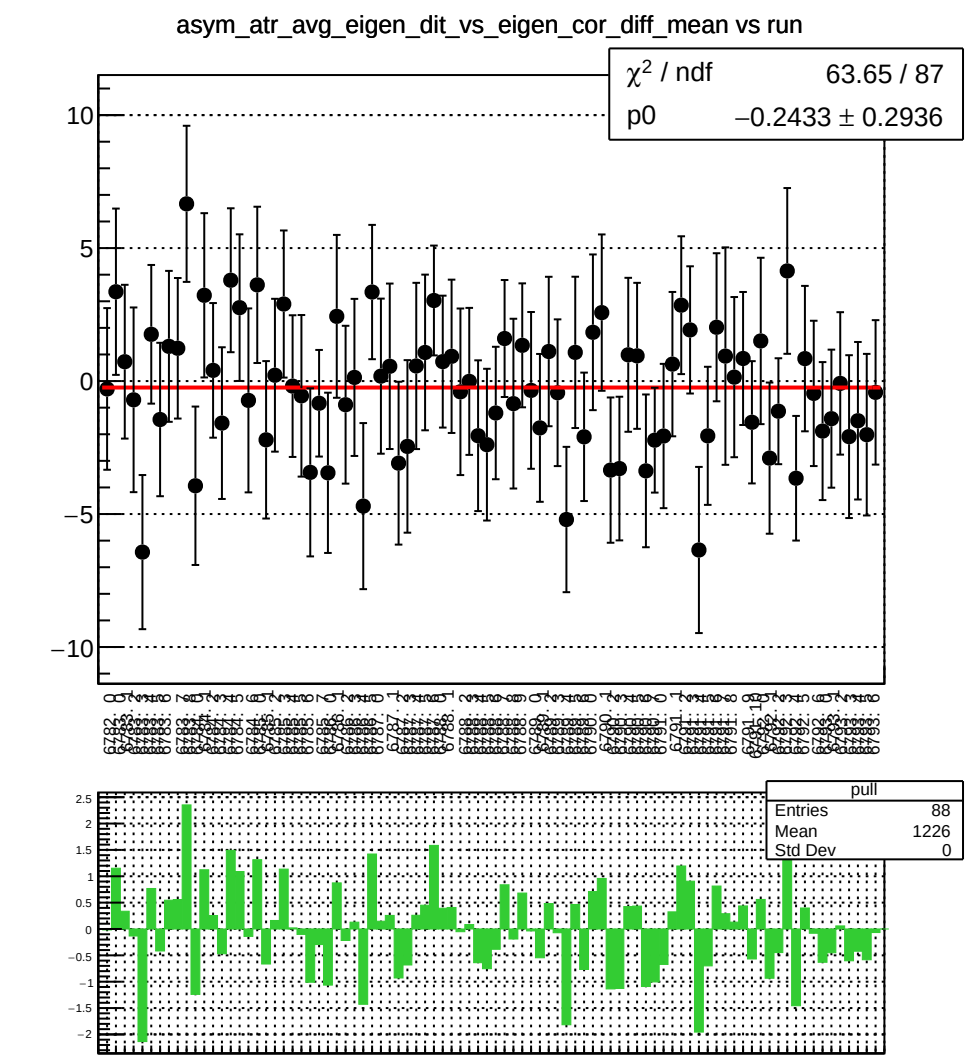

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.56e+04 / 87
p0 265.8 ± 0.2076
400
350
300
250
200

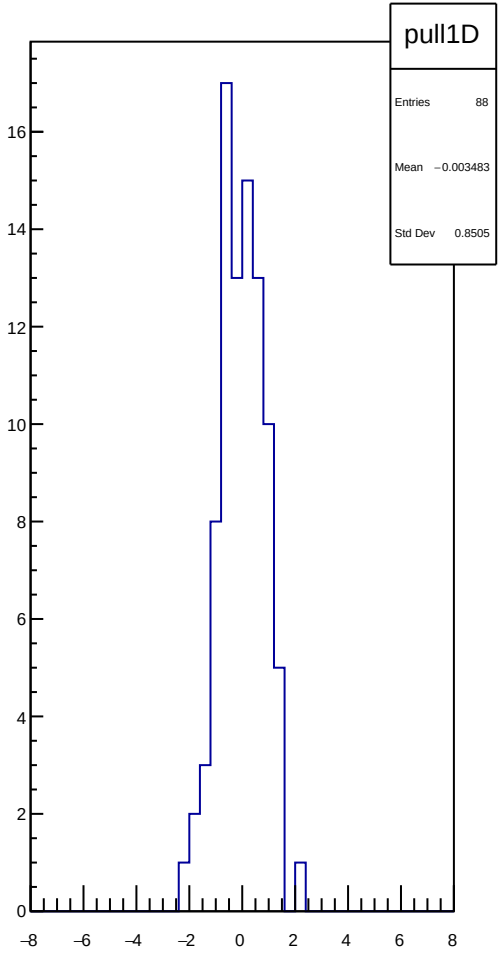

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101 / 87
p0 −1.332e−05 ± 8.319e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean 28.68
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.007076
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

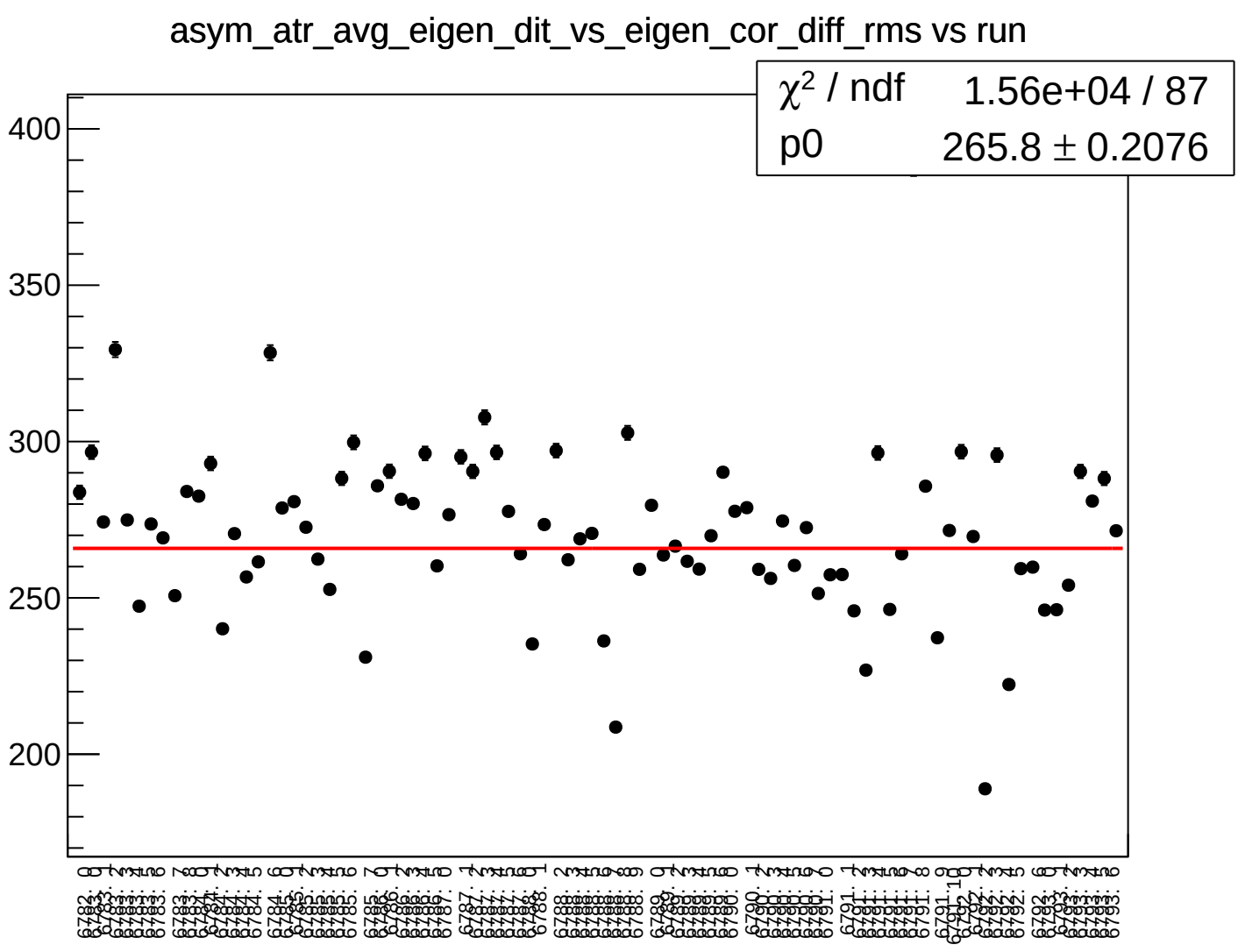

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1840 / 87
p0 0.007563 ± 5.882e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

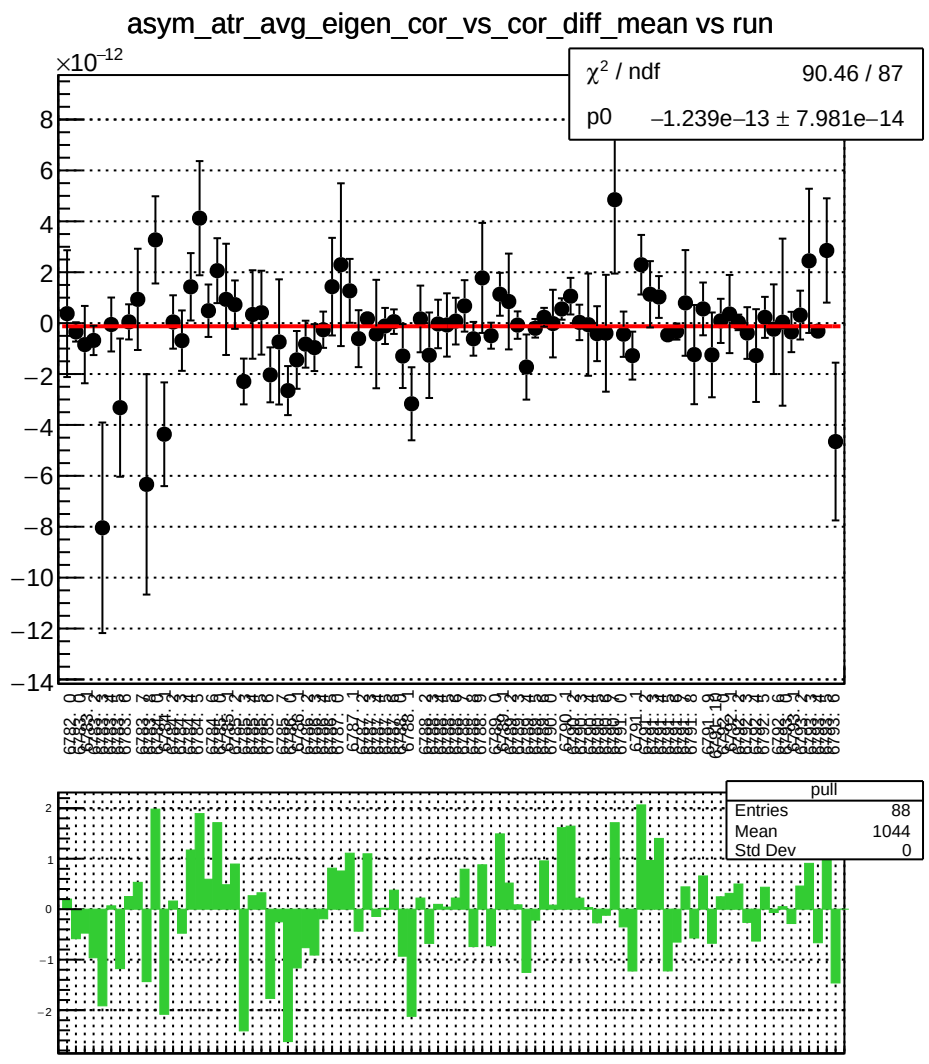

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.65 / 87
p0 −0.2433 ± 0.2936
pull
Entries 88
Mean 1226
Std Dev 0
pull1D
Entries 88
Mean −0.003483
Std Dev 0.8505

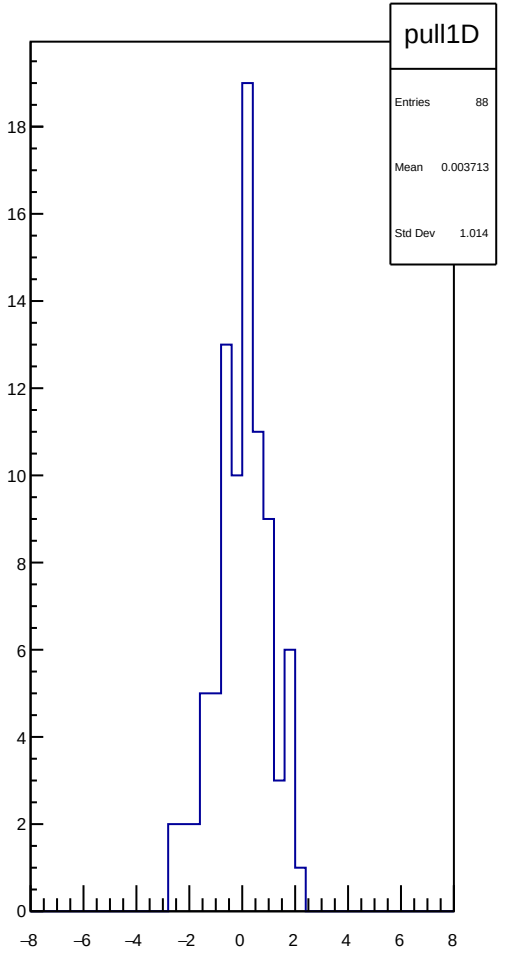

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.56e+04 / 87
p0 265.8 ± 0.2076
400
350
300
250
200

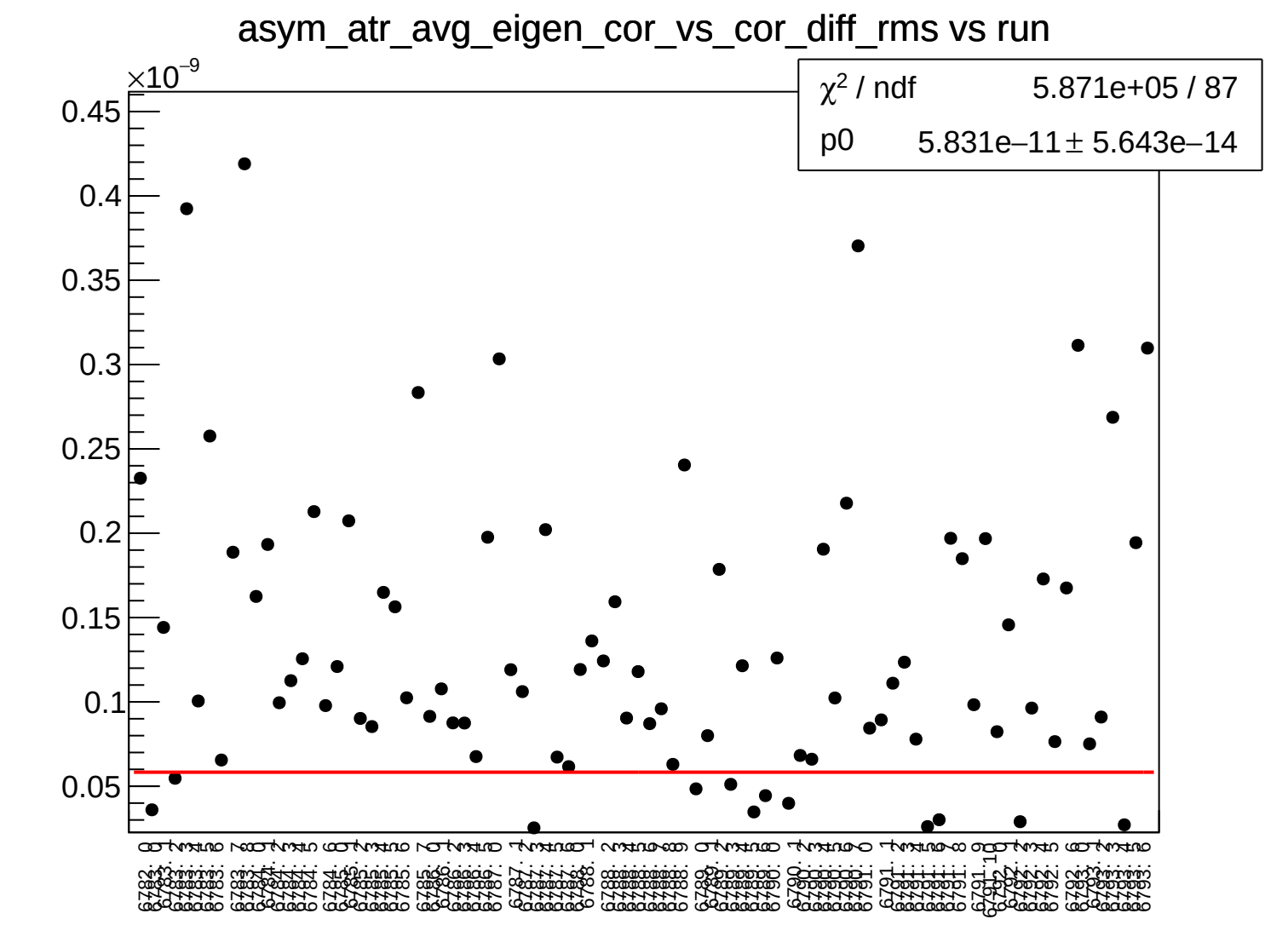

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.65 / 87
p0 −0.2433 ± 0.2936
pull
Entries 88
Mean 1226
Std Dev 0

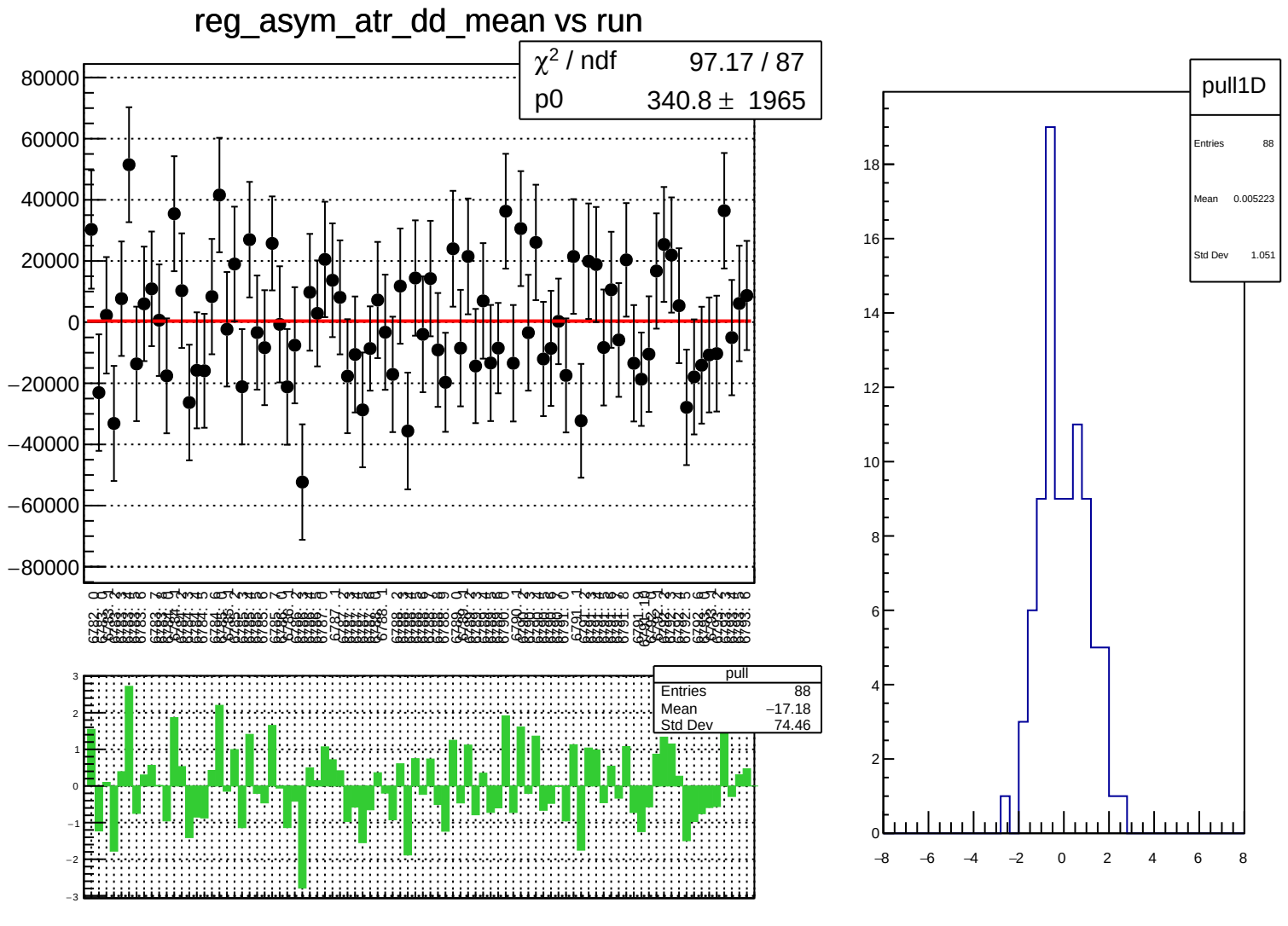

pull1D
Entries 88
Mean −0.003483
Std Dev 0.8505

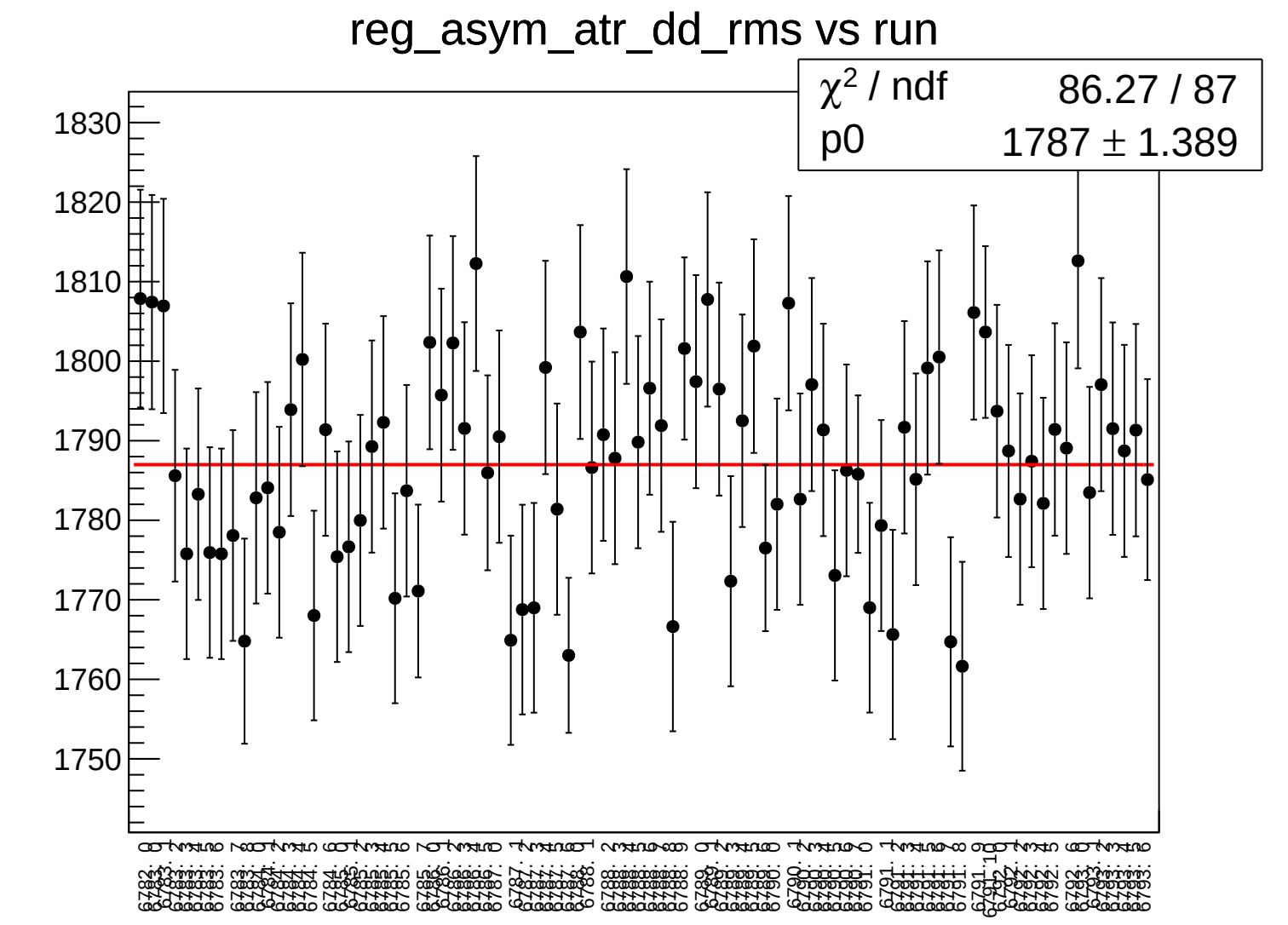

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.56e+04 / 87
p0 265.8 ± 0.2076
400
350
300
250
200

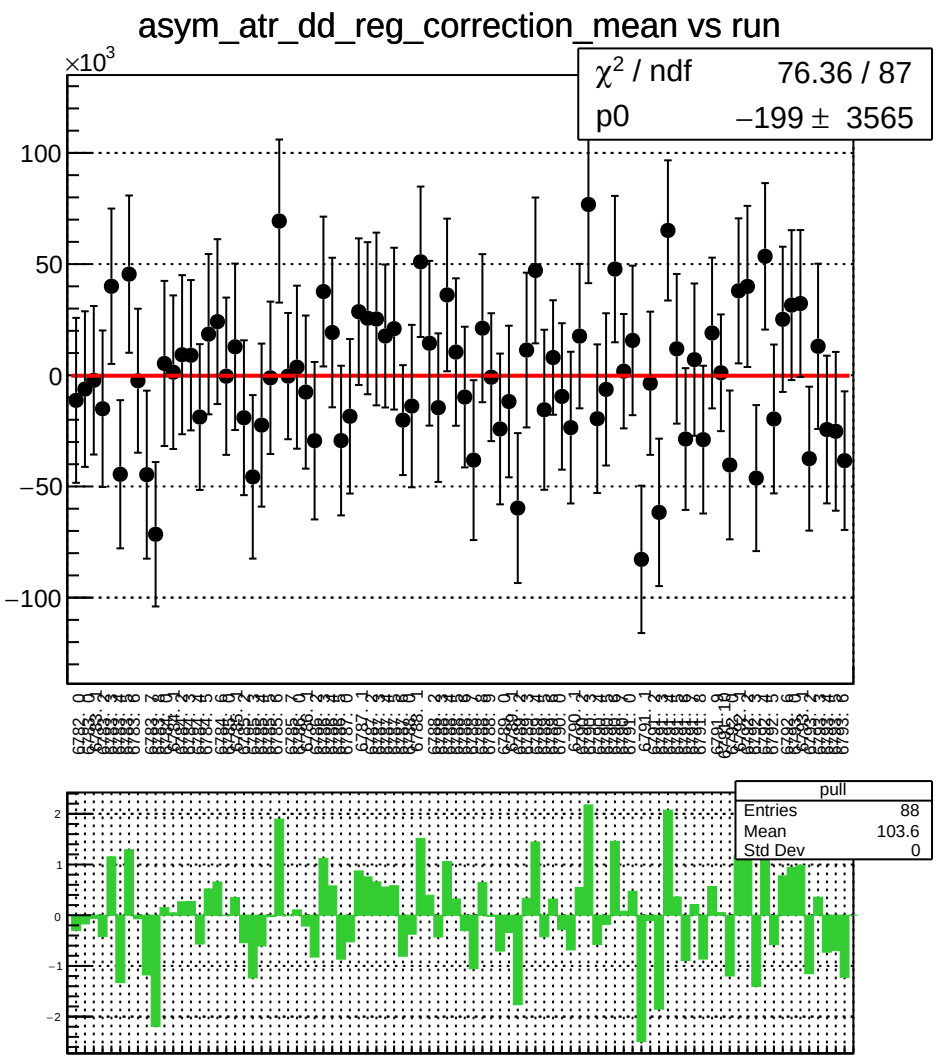

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.46 / 87
p0 −1.239e−13 ± 7.981e−14
pull
Entries 88
Mean 1044
Std Dev 0

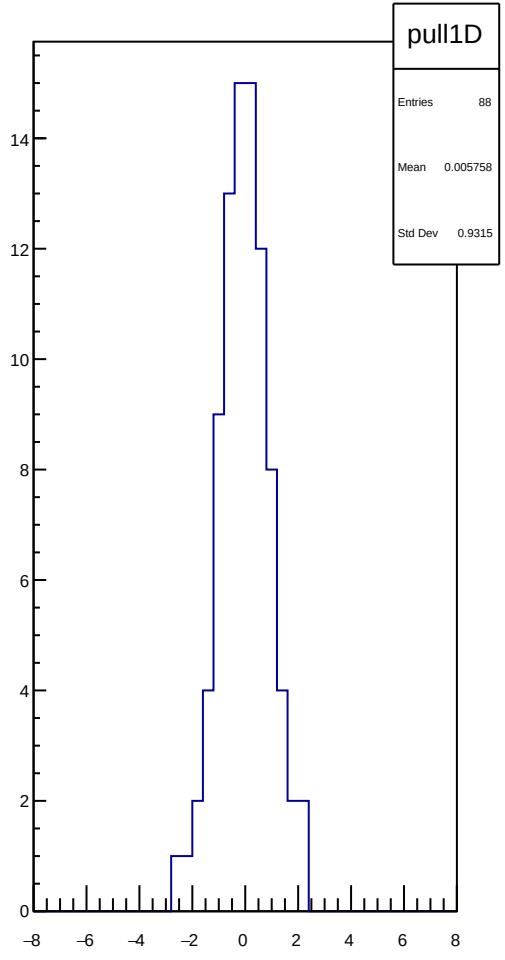

pull1D
Entries 88
Mean 0.003713
Std Dev 1.014

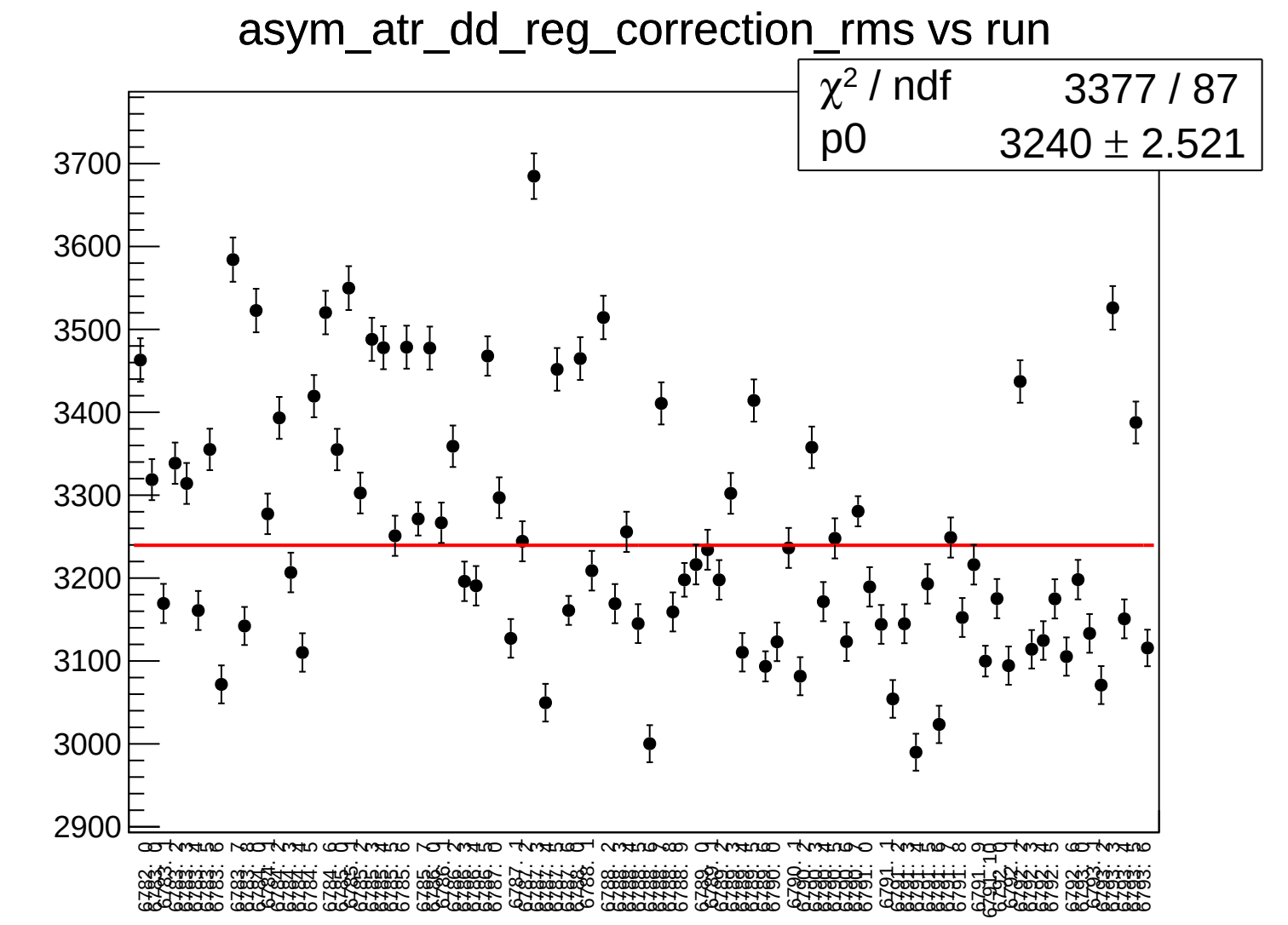

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.871e+05 / 87
p0 5.831e−11 ± 5.643e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

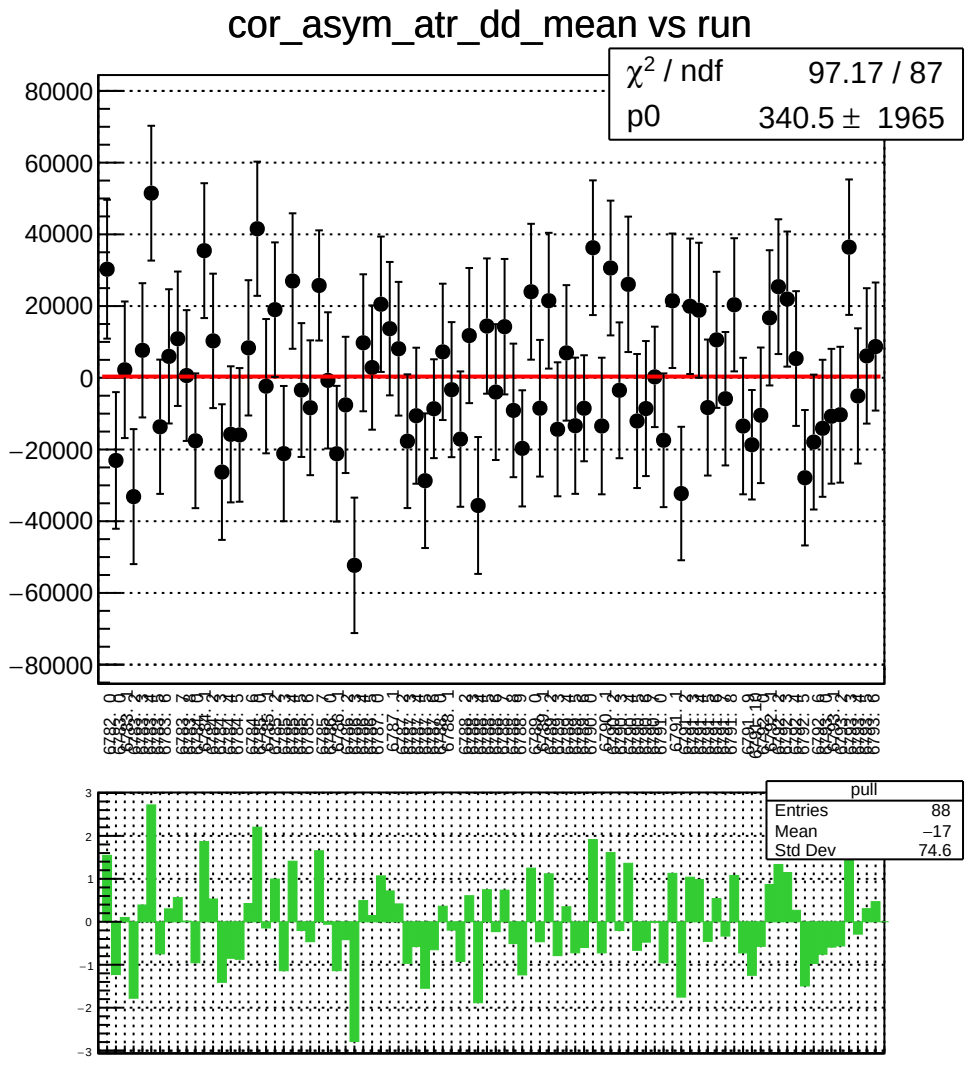

reg_asym_atr_dd_mean vs run
χ² / ndf 97.17 / 87
p0 340.8 ± 1965
pull
Entries 88
Mean −17.18
Std Dev 74.46
pull1D
Entries 88
Mean 0.005223
Std Dev 1.051

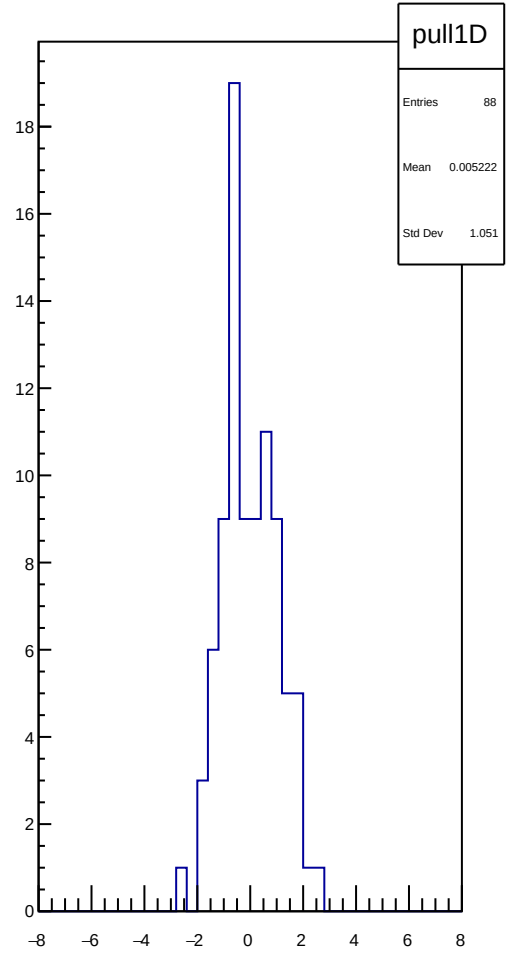

reg_asym_atr_dd_rms vs run
χ^2 / ndf 86.27 / 87
p0 1787 ± 1.389
1830
1820
1810
1800
1790
1780
1770
1760
1750

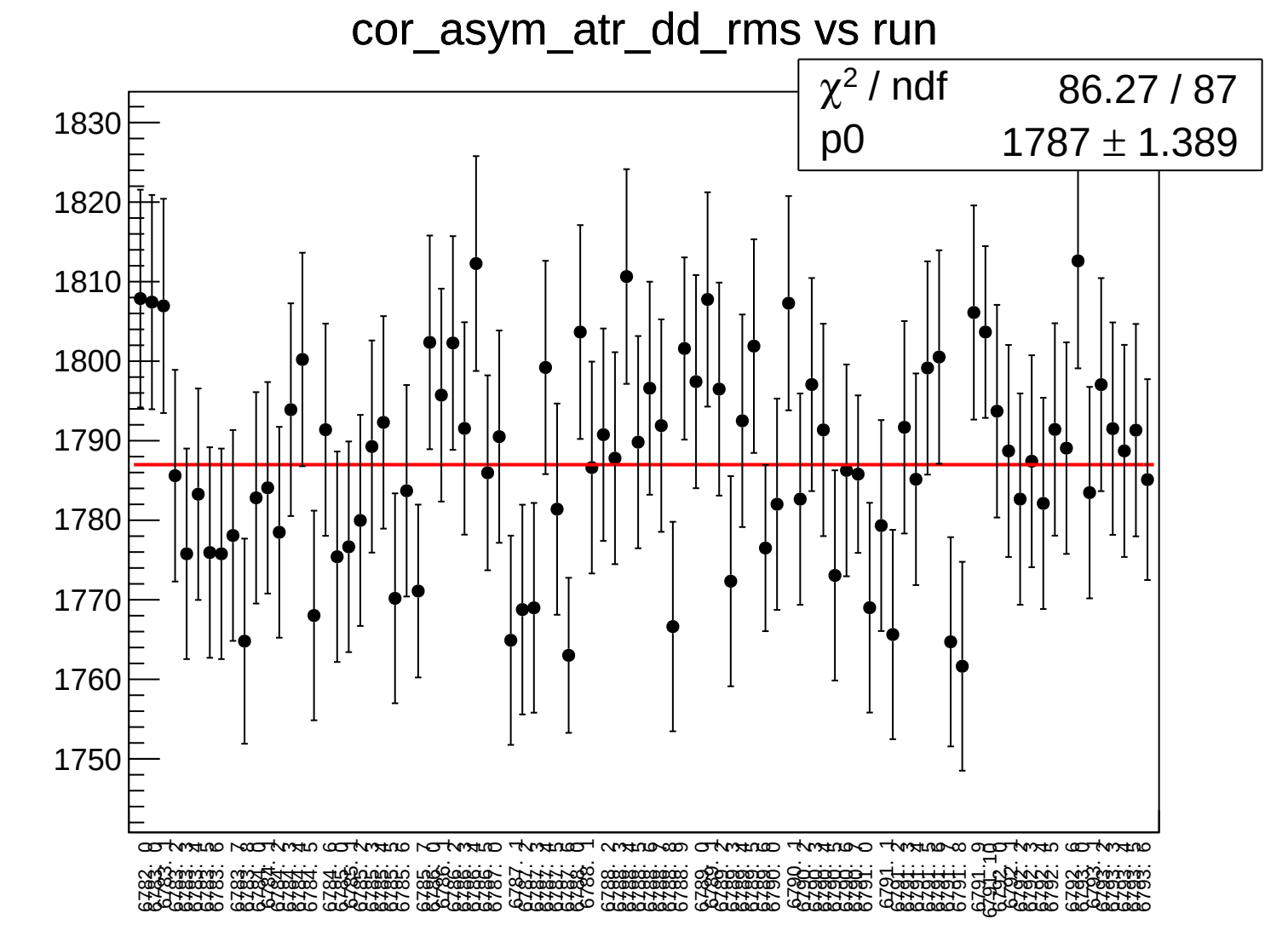

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 76.36 / 87
p0 −199 ± 3565
100
50
0
−50
−100
pull
Entries 88
Mean 103.6
Std Dev 0
2
1
0
−1
−2

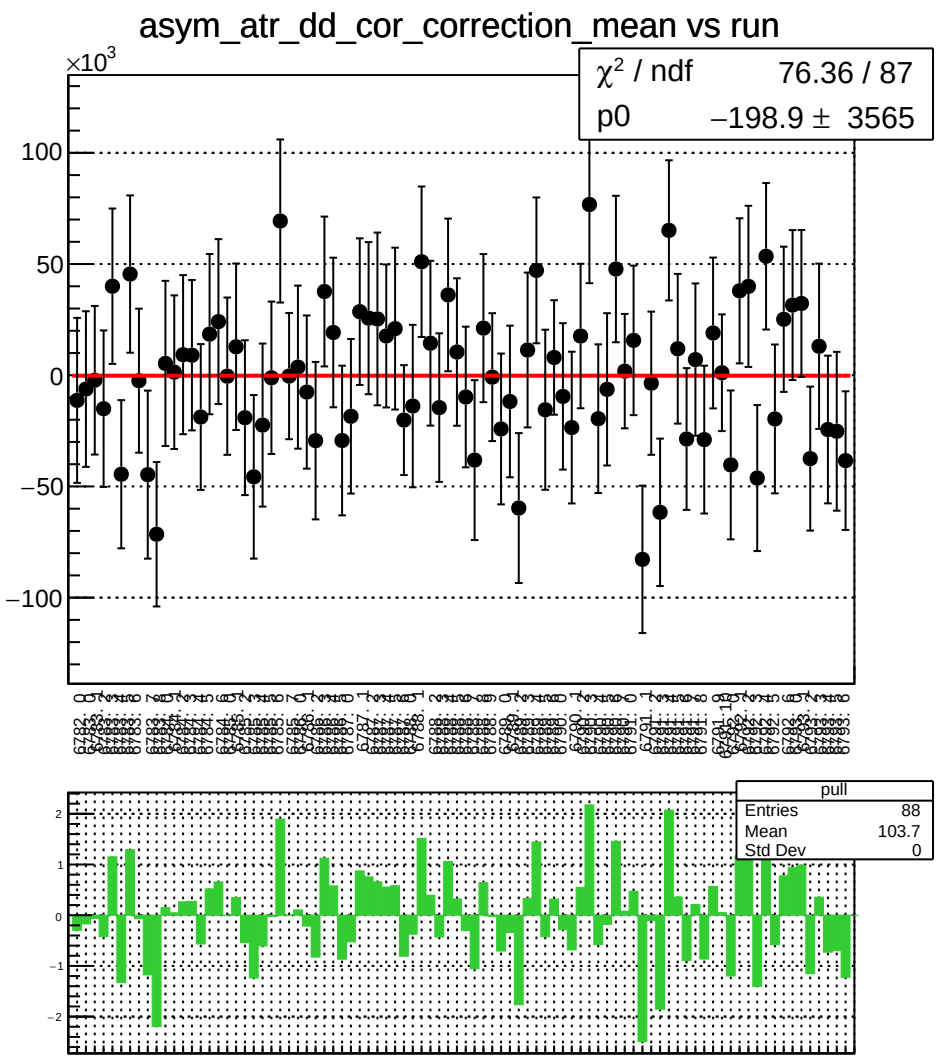

pull1D
Entries 88
Mean 0.005758
Std Dev 0.9315
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

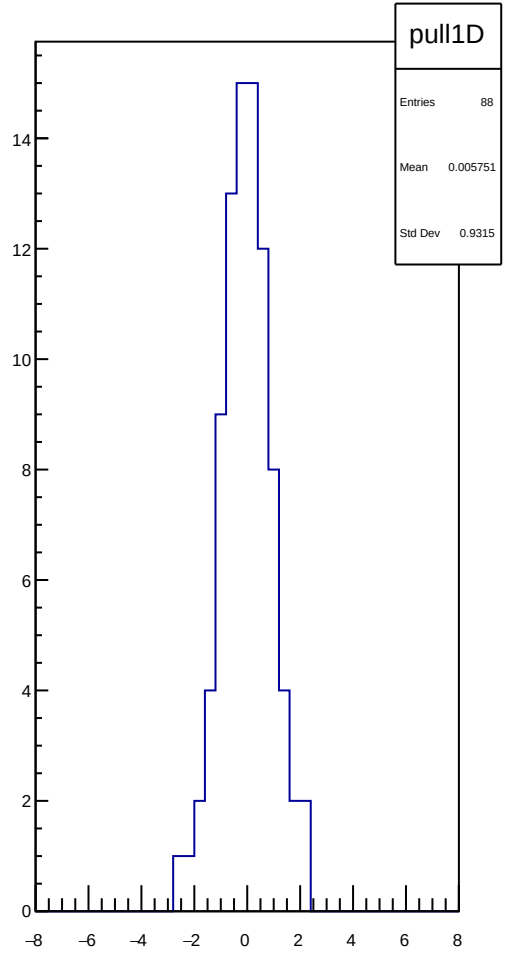

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3377 / 87
p0 3240 ± 2.521
3700
3600
3500
3400
3300
3200
3100
3000
2900

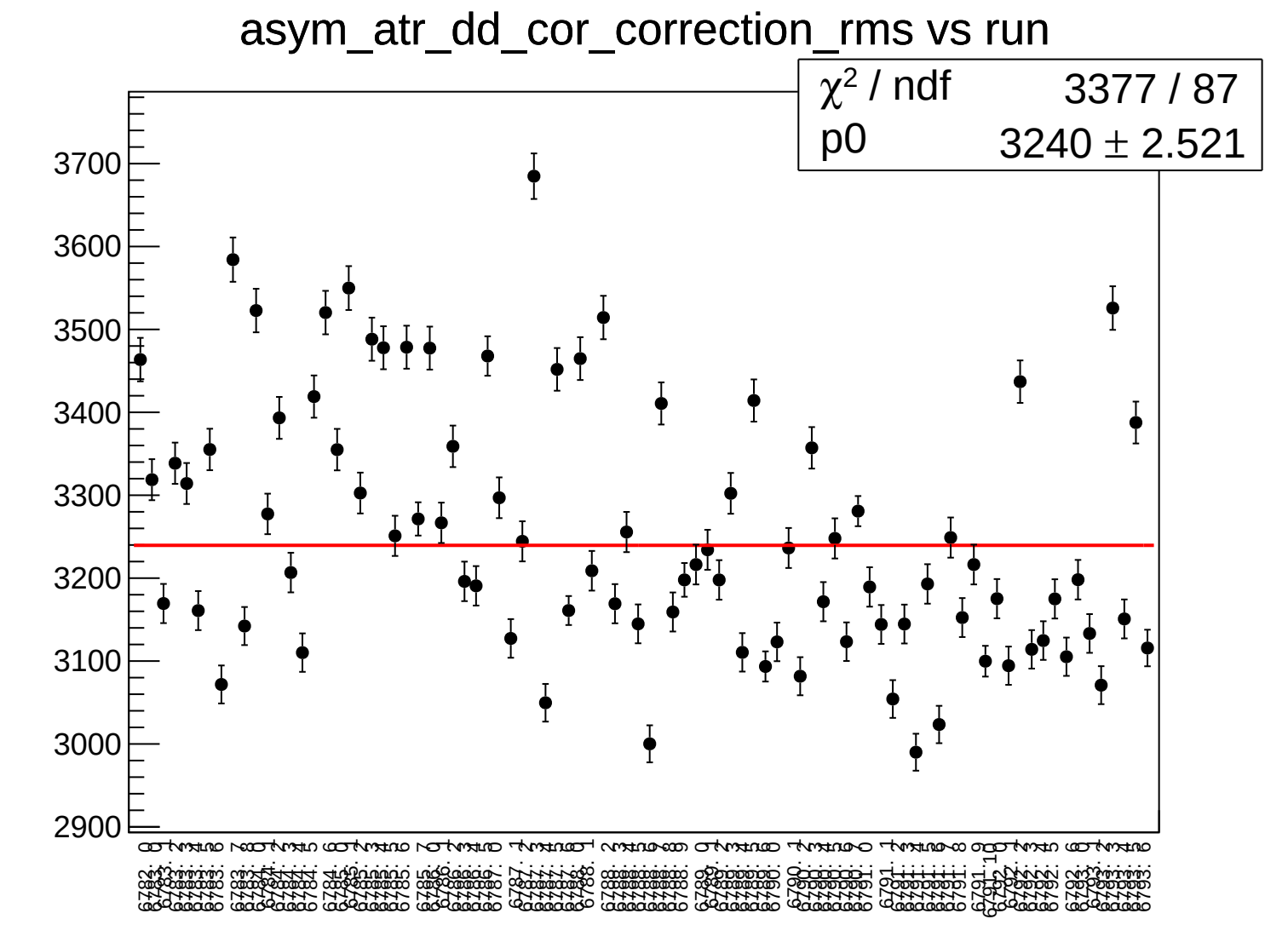

cor_asym_atr_dd_mean vs run
χ² / ndf 97.17 / 87
p0 340.5 ± 1965
pull
Entries 88
Mean −17
Std Dev 74.6

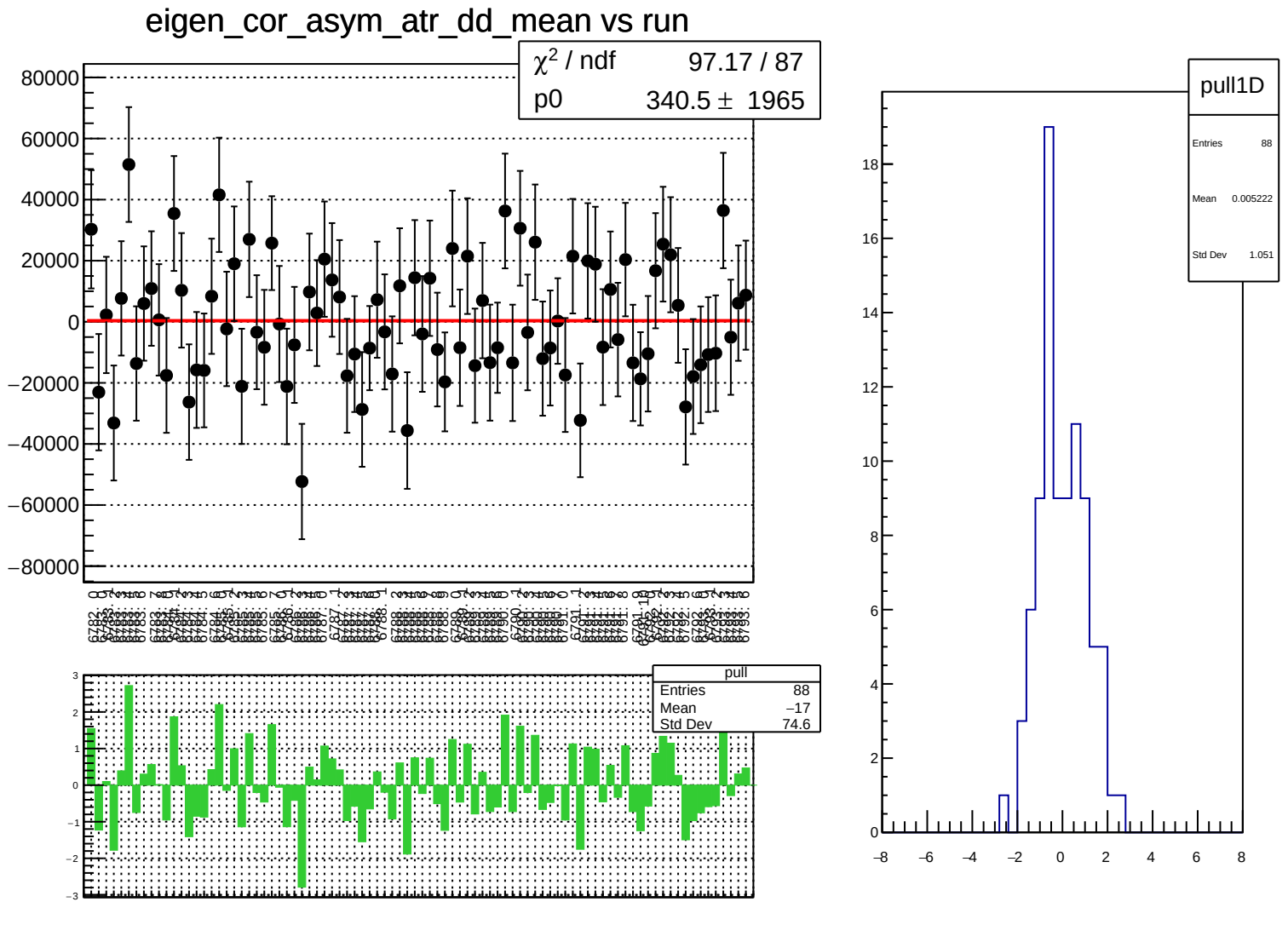

pull1D
Entries 88
Mean 0.005222
Std Dev 1.051

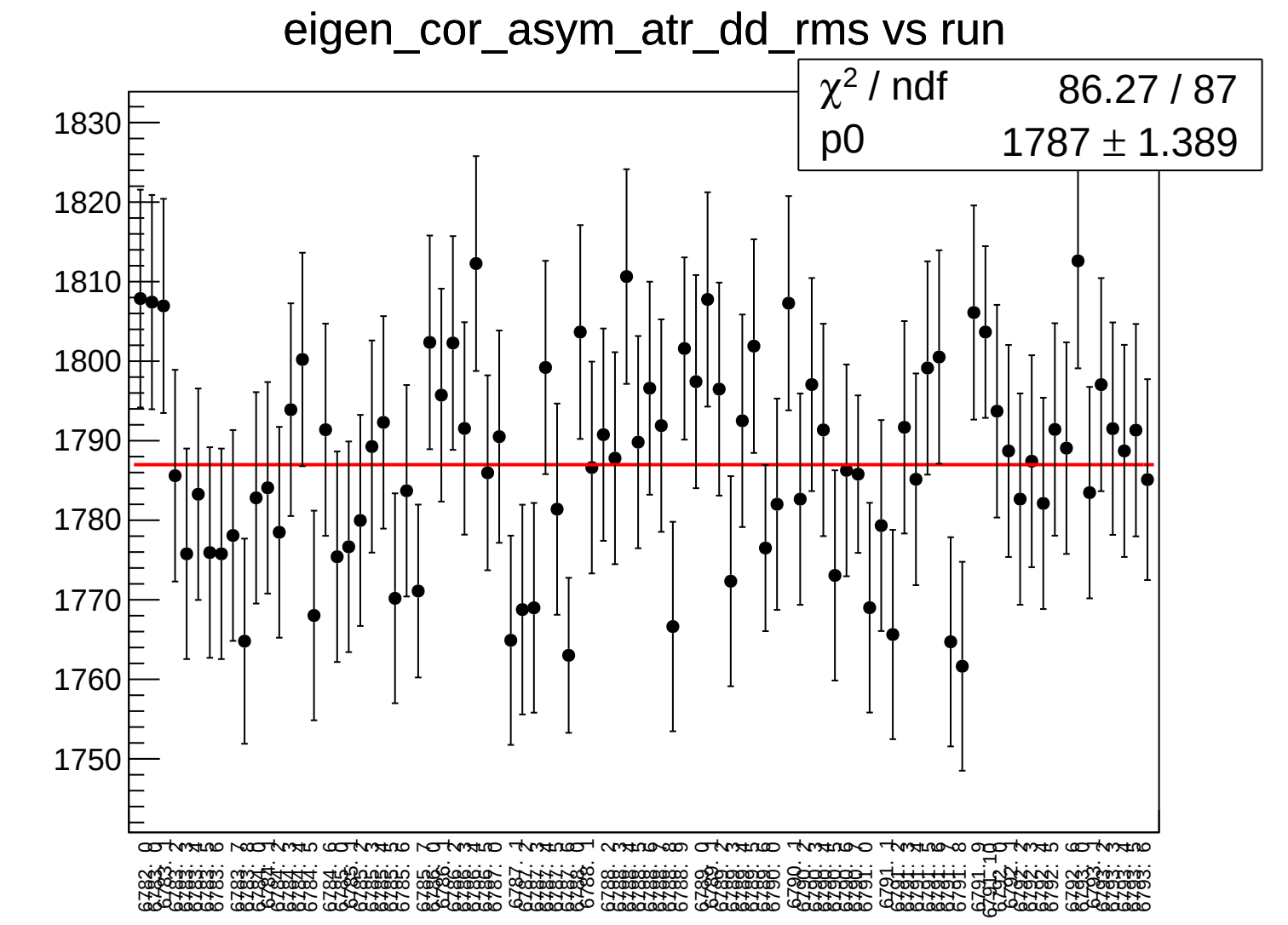

cor_asym_atr_dd_rms vs run
χ² / ndf 86.27 / 87
p0 1787 ± 1.389
1830
1820
1810
1800
1790
1780
1770
1760
1750

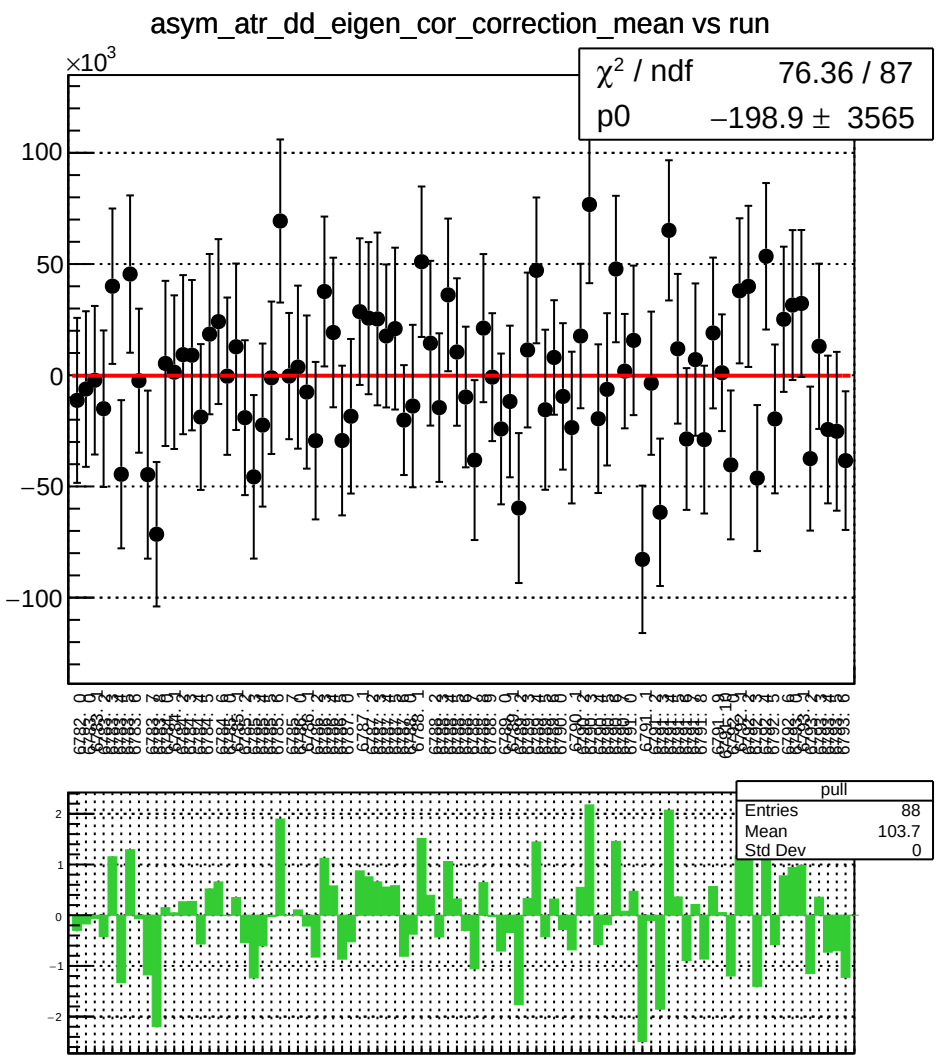

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 76.36 / 87
p0 −198.9 ± 3565
100
50
0
−50
−100
pull
Entries 88
Mean 103.7
Std Dev 0
2
1
0
−1
−2

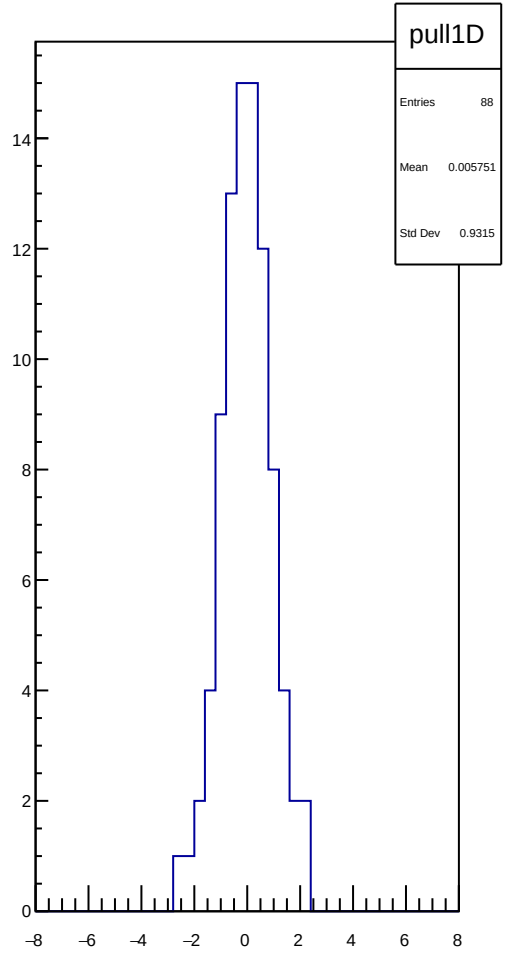

pull1D
Entries 88
Mean 0.005751
Std Dev 0.9315
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

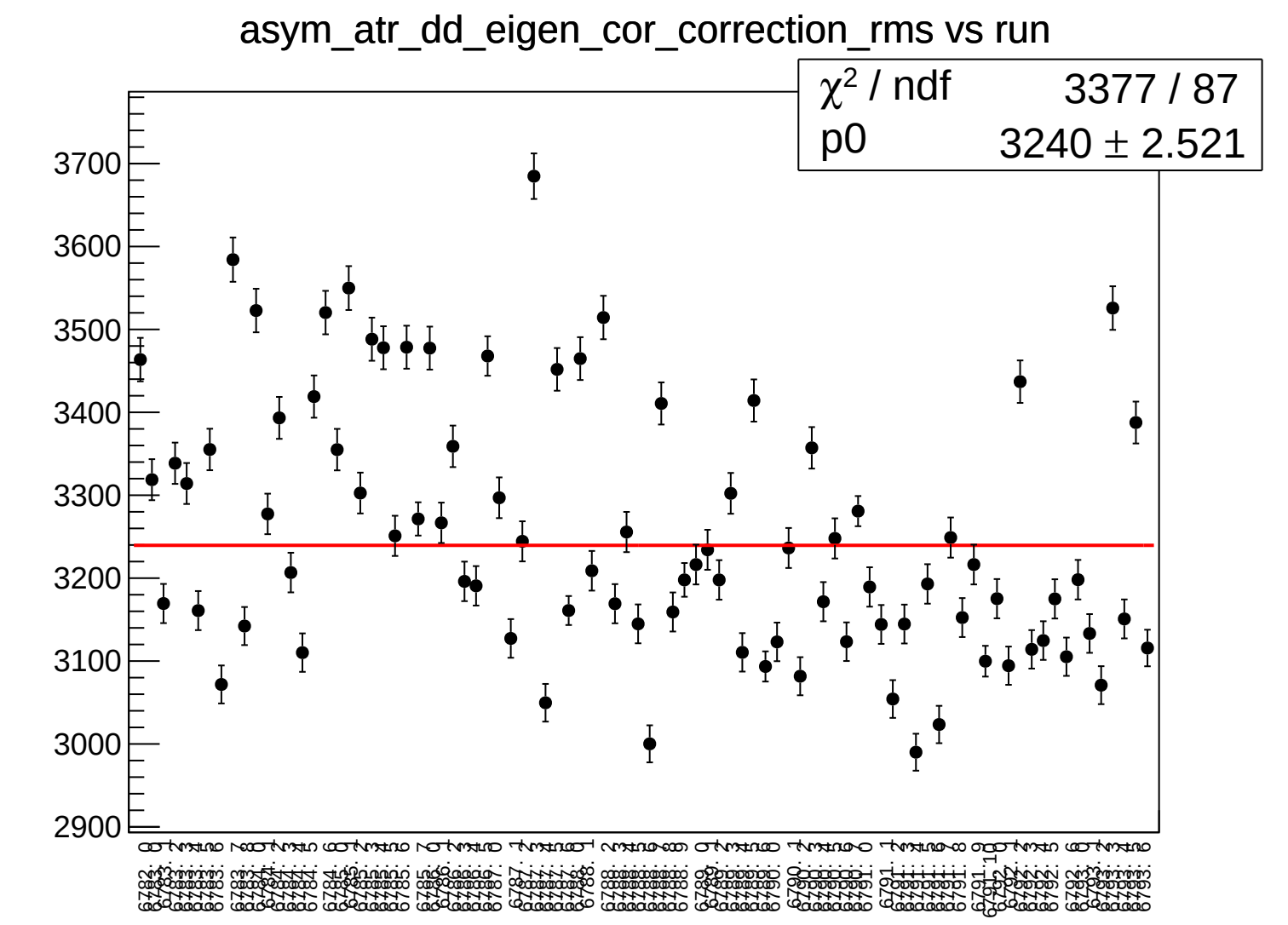

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3377 / 87
p0 3240 ± 2.521
3700
3600
3500
3400
3300
3200
3100
3000
2900

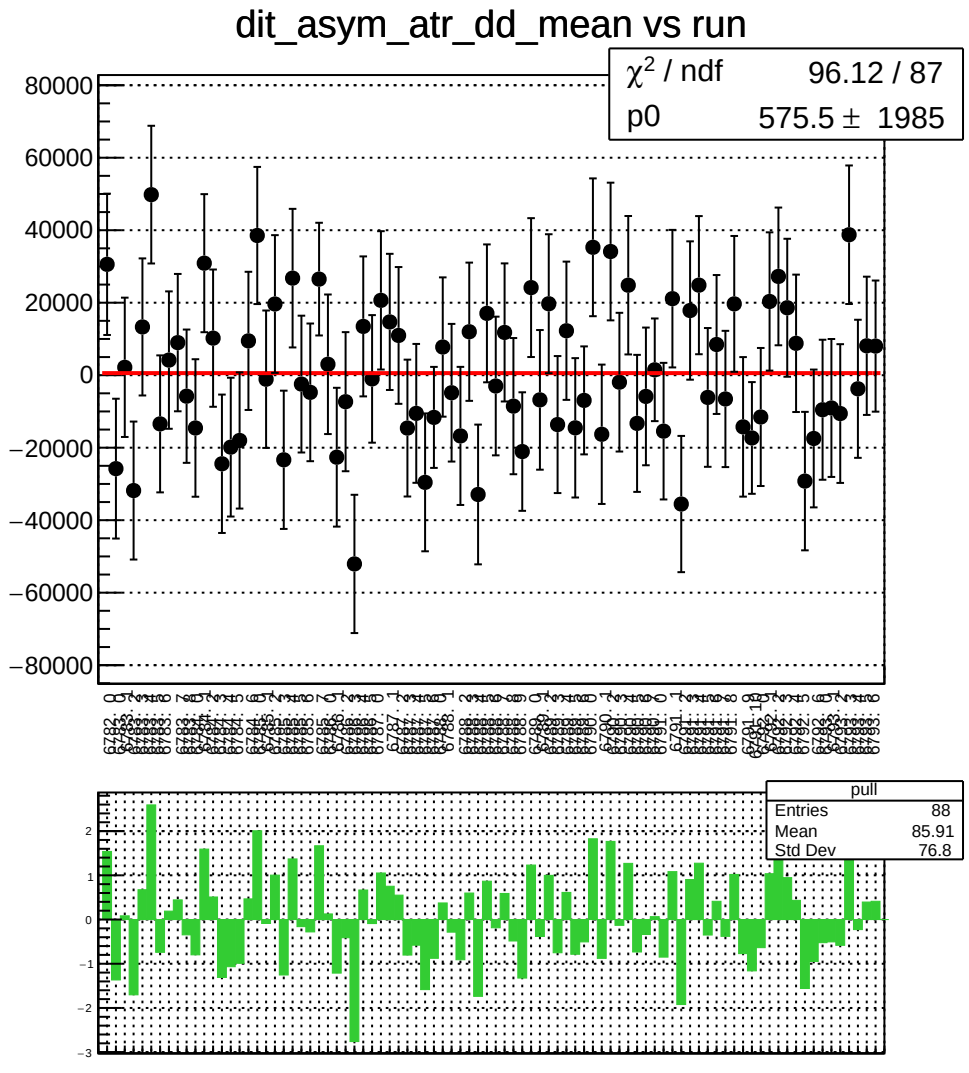

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 97.17 / 87
p0 340.5 ± 1965
pull
Entries 88
Mean −17
Std Dev 74.6
pull1D
Entries 88
Mean 0.005222
Std Dev 1.051

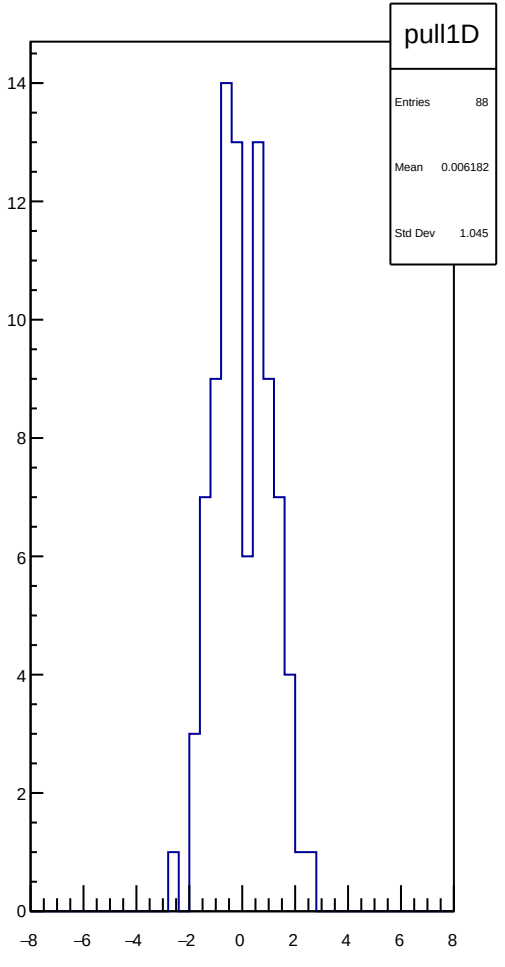

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 86.27 / 87
p0 1787 ± 1.389
1830
1820
1810
1800
1790
1780
1770
1760
1750

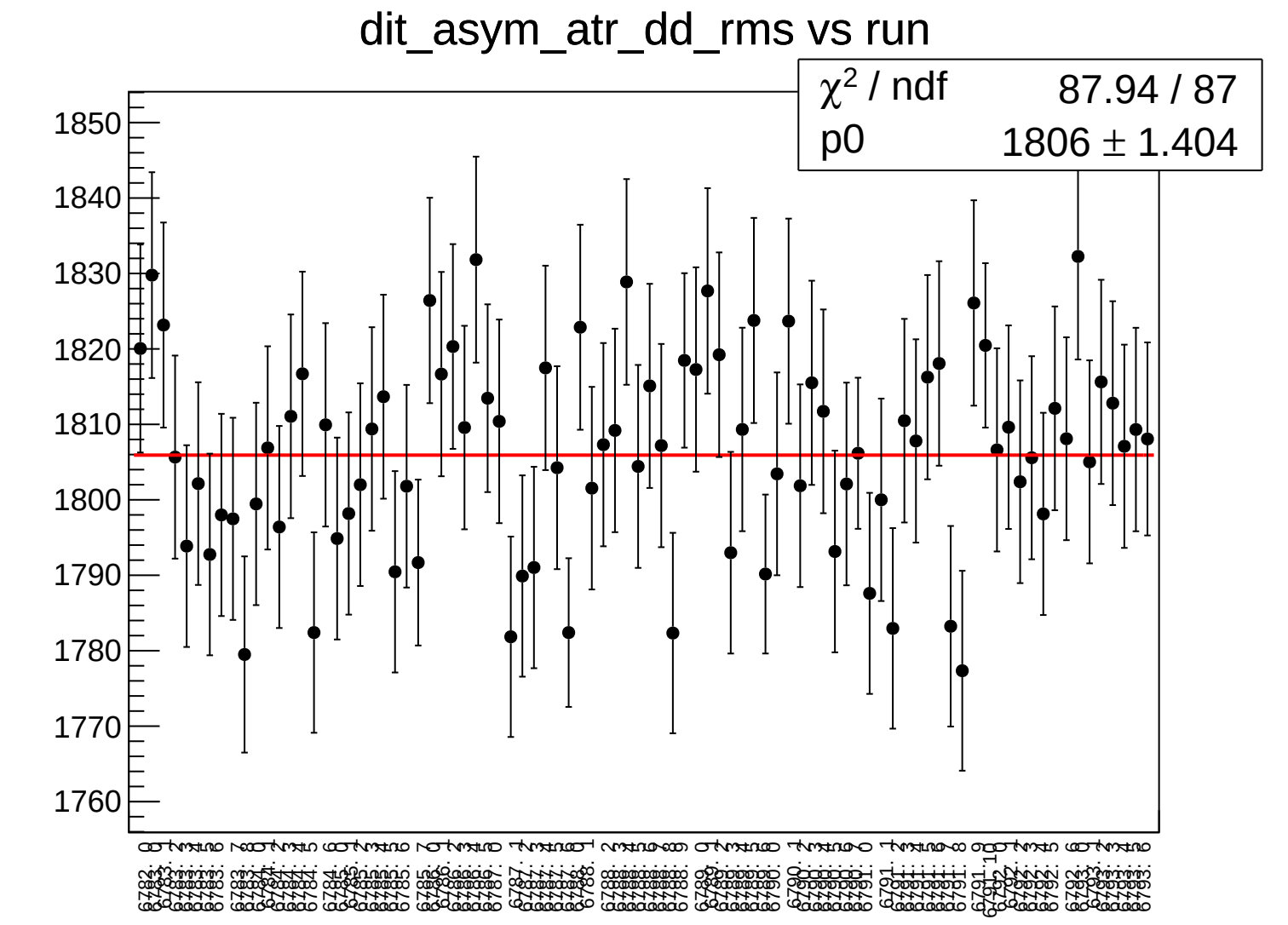

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.36 / 87
p0 −198.9 ± 3565
100
50
0
−50
−100
pull
Entries 88
Mean 103.7
Std Dev 0
2
1
0
−1
−2

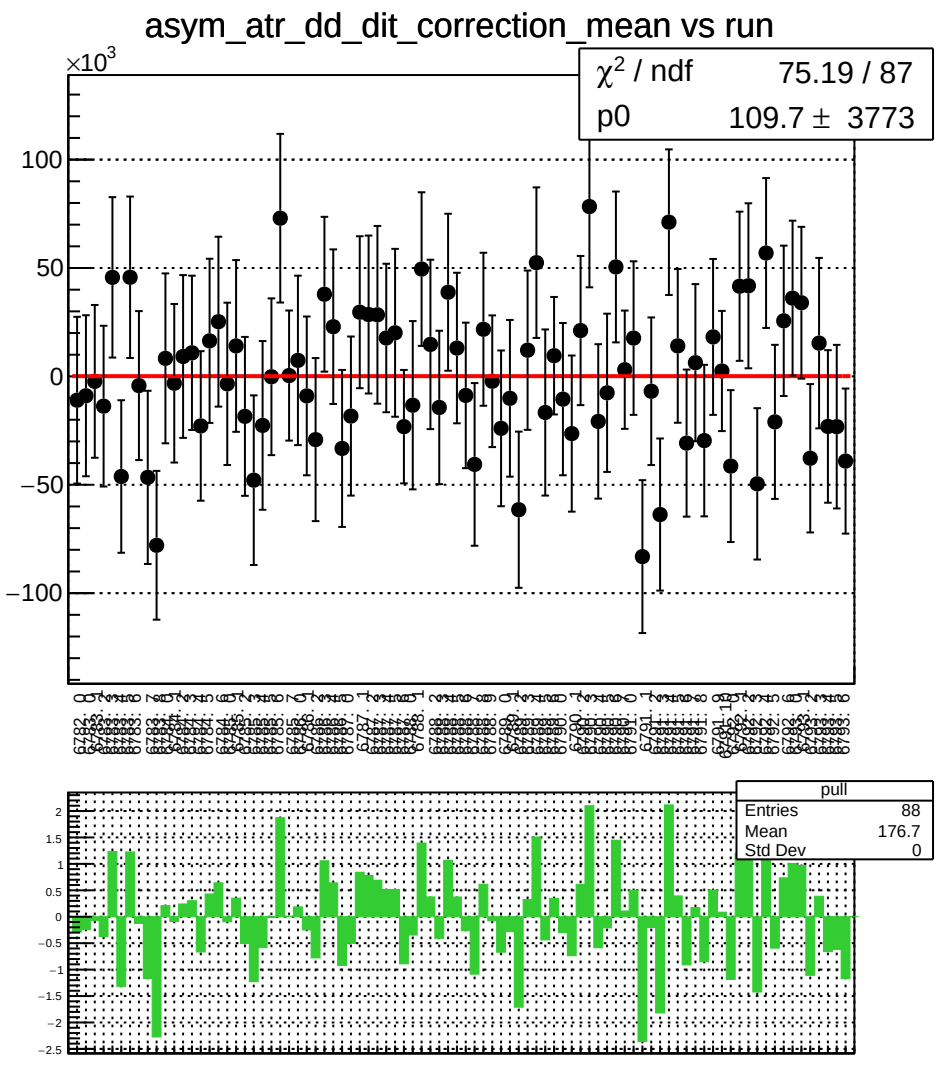

pull1D
Entries 88
Mean 0.005751
Std Dev 0.9315
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

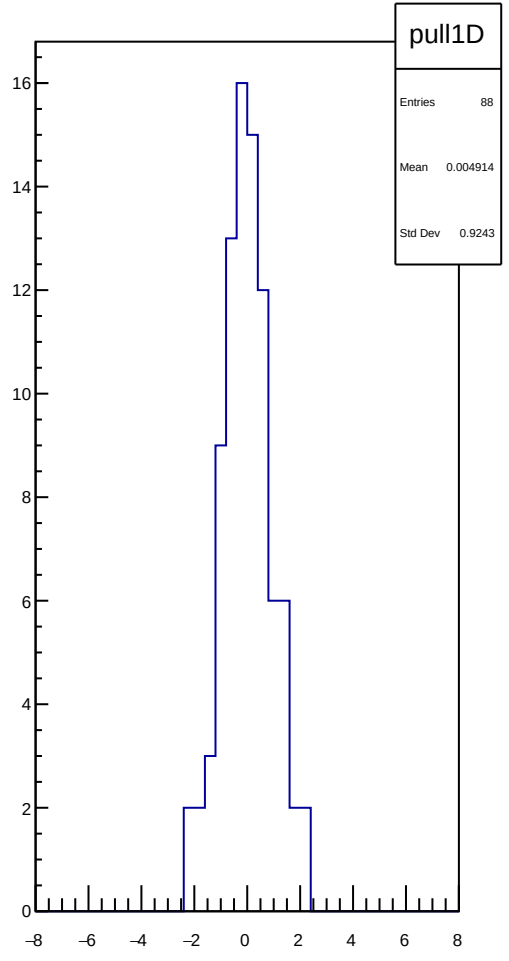

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3377 / 87
p0 3240 ± 2.521
3700
3600
3500
3400
3300
3200
3100
3000
2900

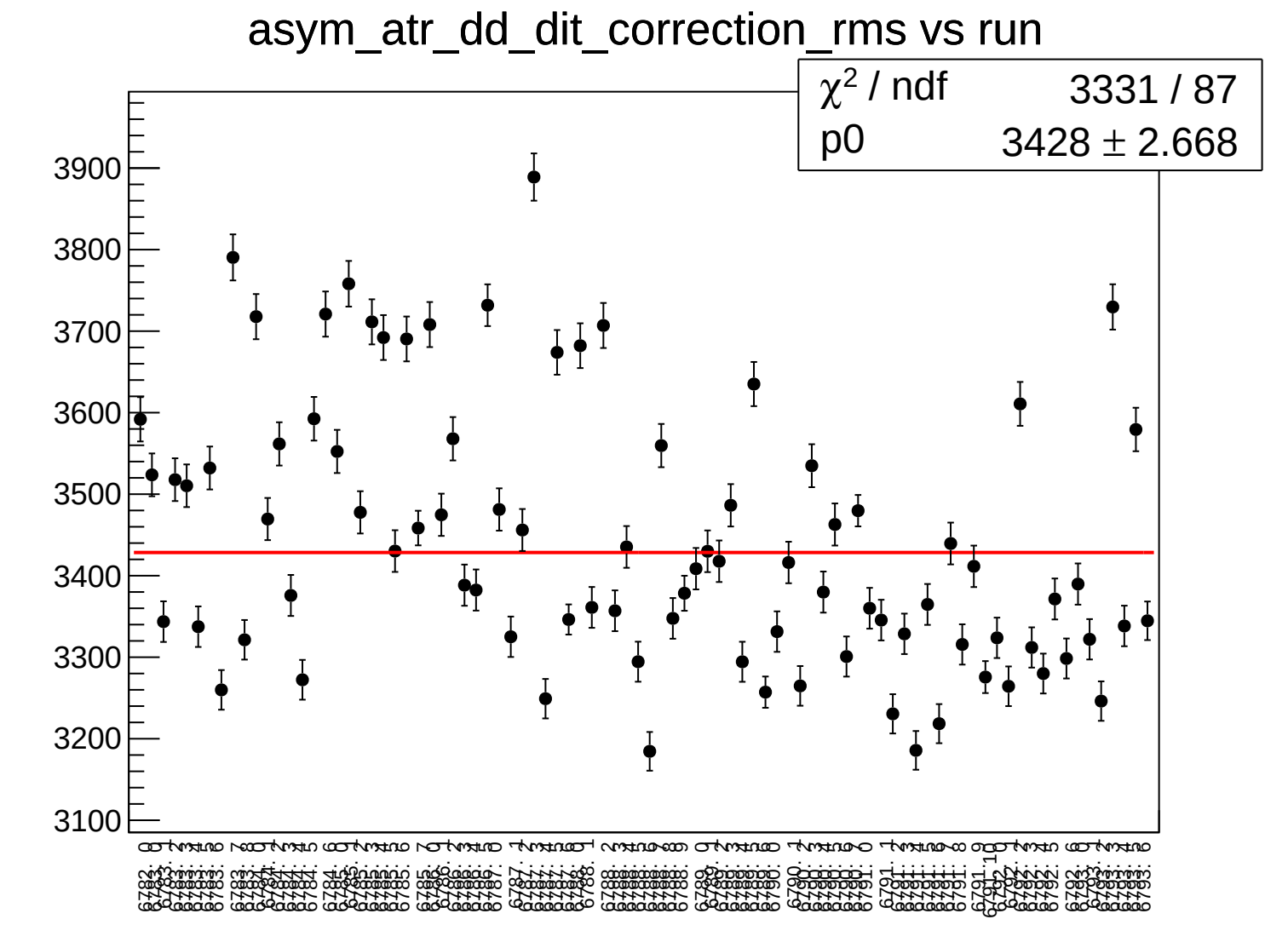

dit_asym_atr_dd_mean vs run
χ² / ndf 96.12 / 87
p0 575.5 ± 1985
pull
Entries 88
Mean 85.91
Std Dev 76.8

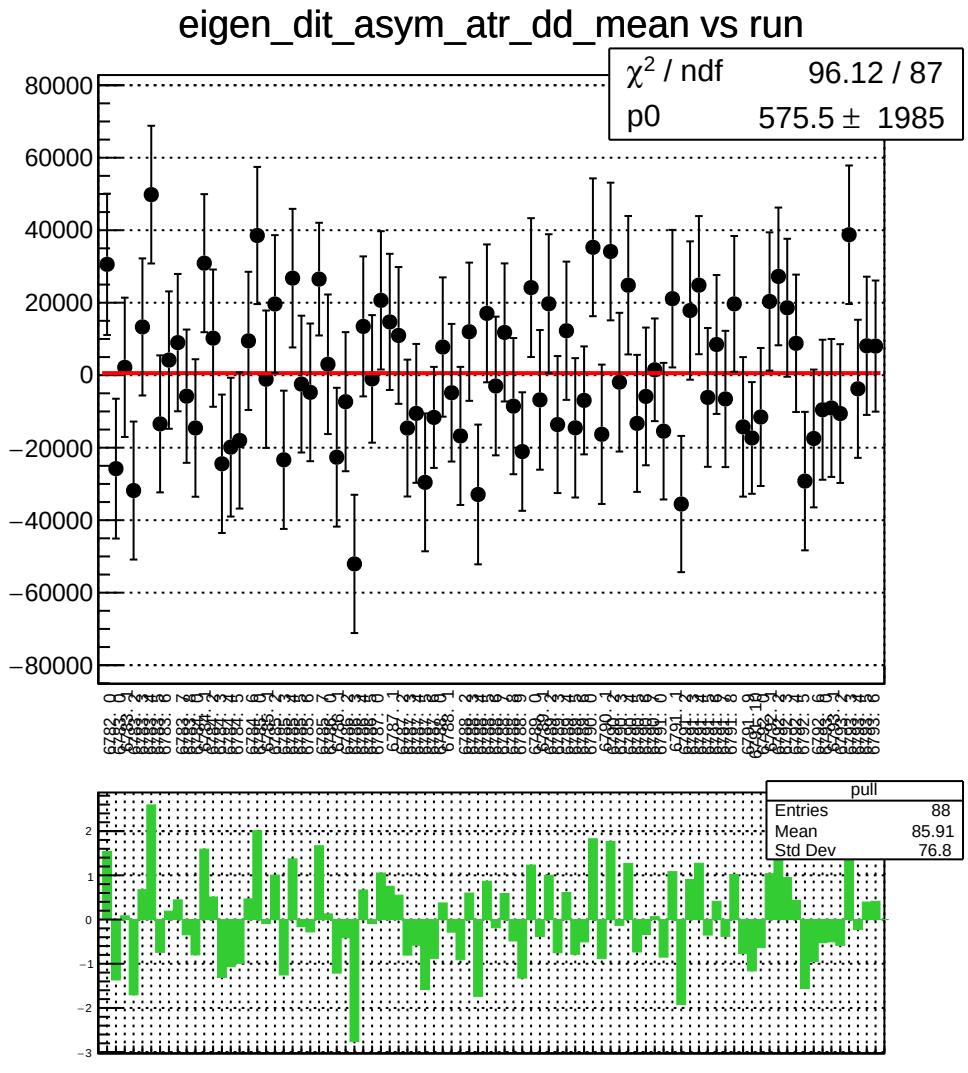

pull1D
Entries 88
Mean 0.006182
Std Dev 1.045

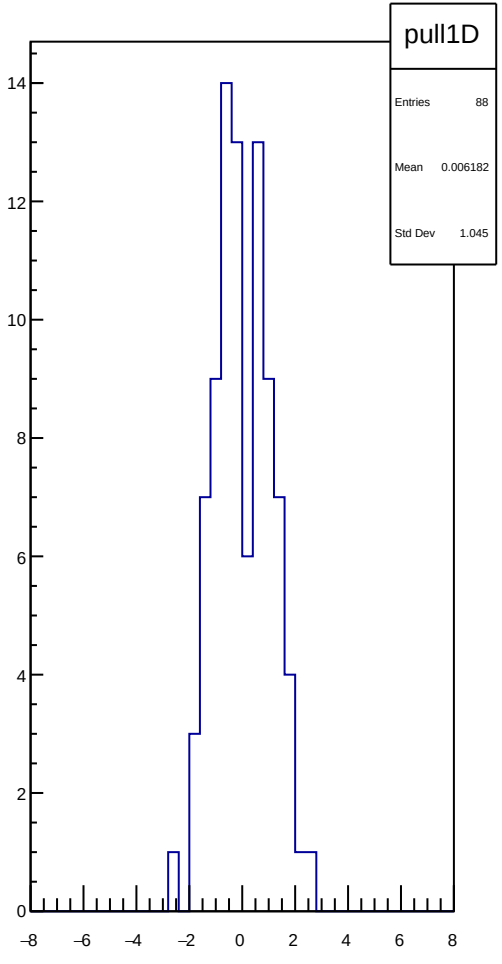

dit_asym_atr_dd_rms vs run
χ² / ndf 87.94 / 87
p0 1806 ± 1.404
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

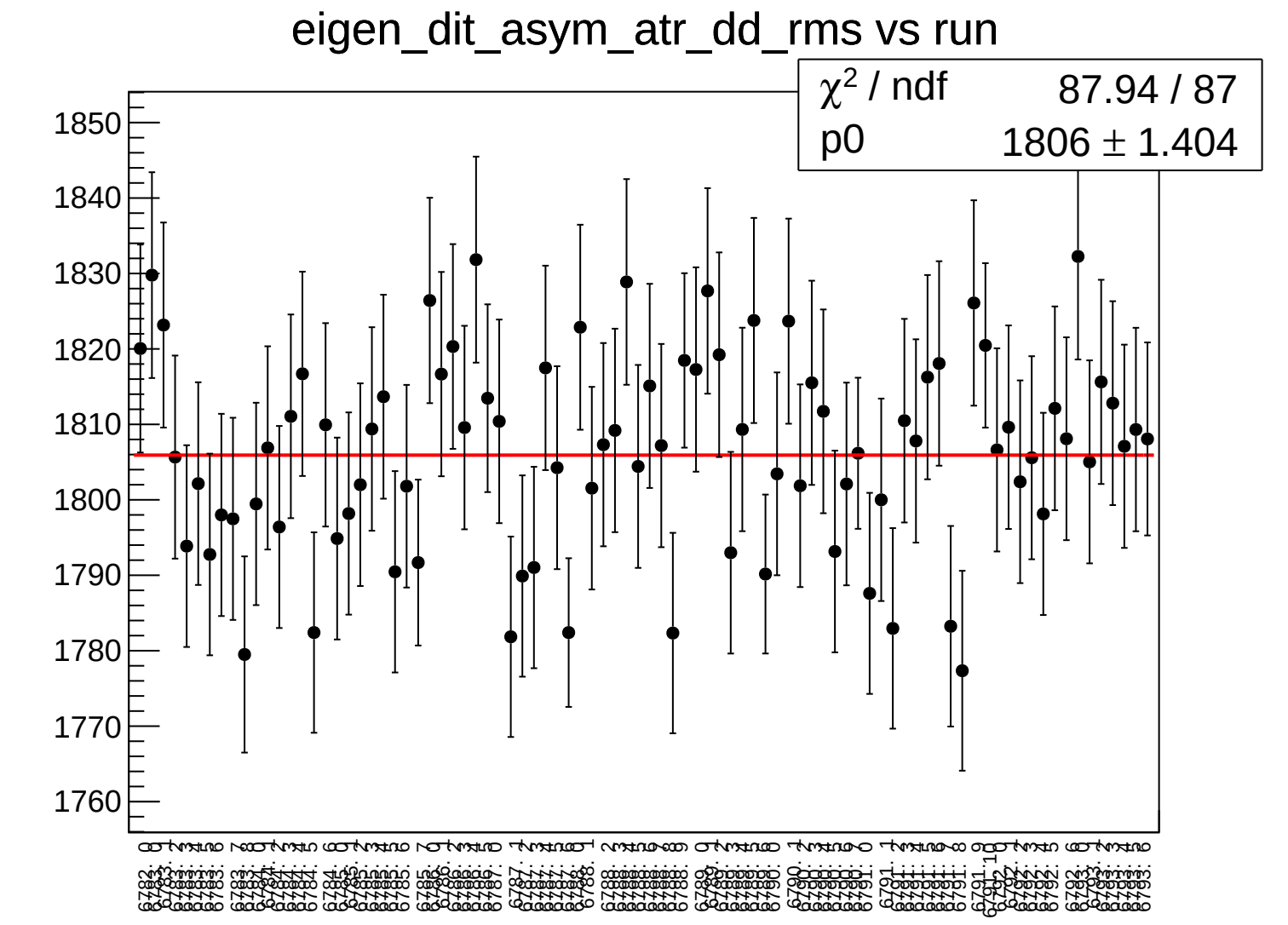

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 75.19 / 87
p0 109.7 ± 3773
100
50
0
−50
−100
pull
Entries 88
Mean 176.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

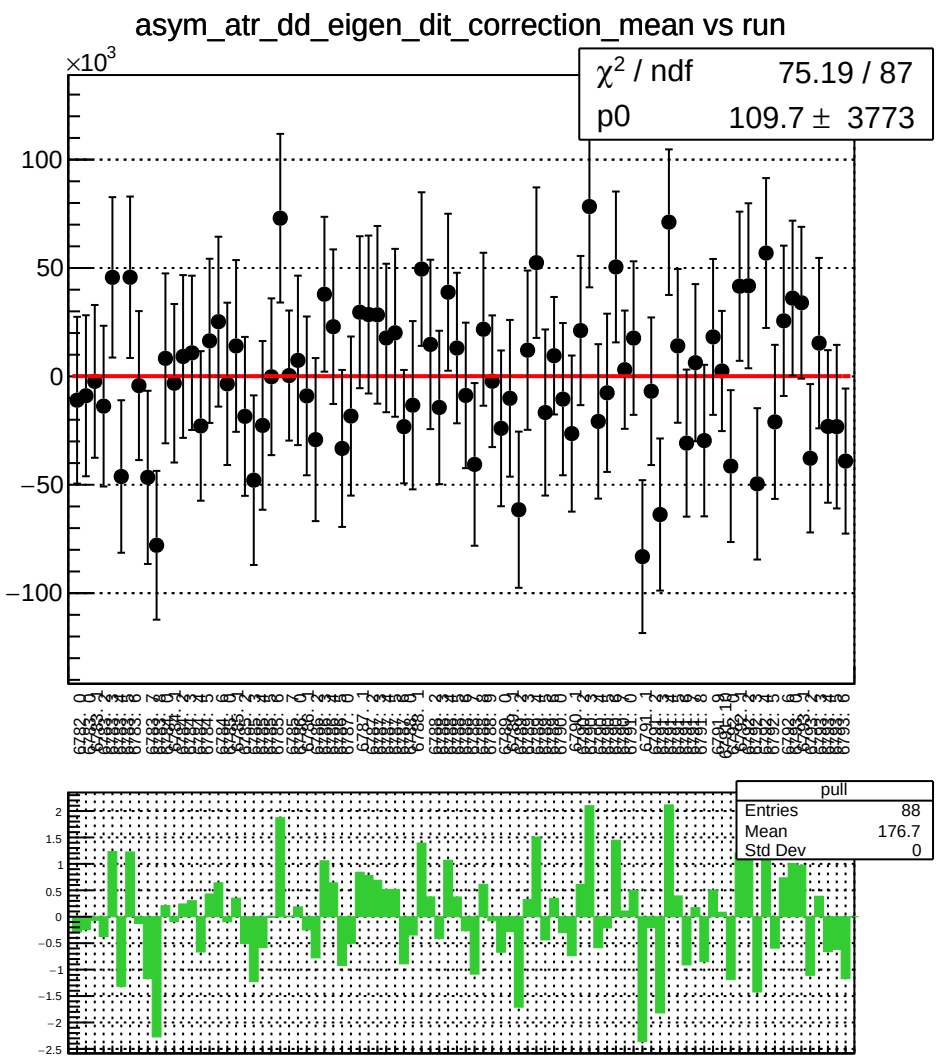

pull1D
Entries 88
Mean 0.004914
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

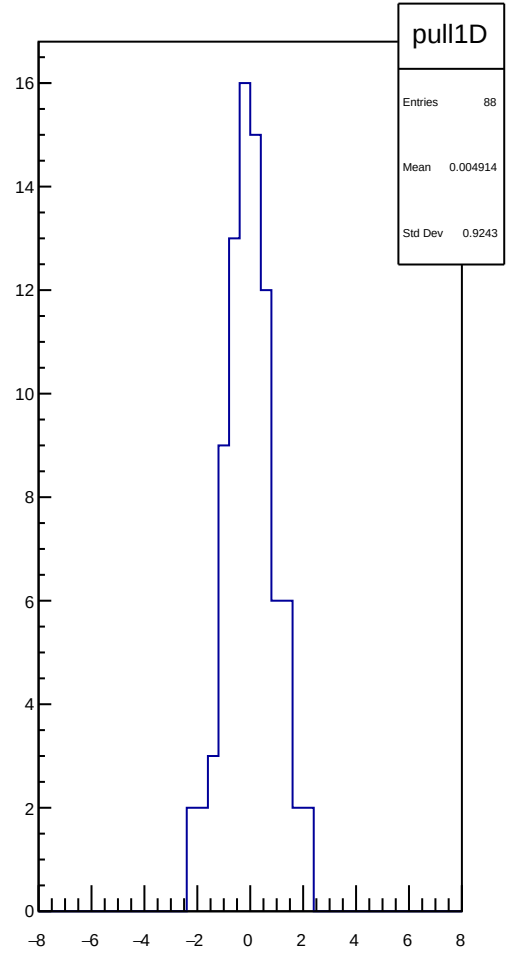

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3331 / 87
p0 3428 ± 2.668
3900
3800
3700
3600
3500
3400
3300
3200
3100

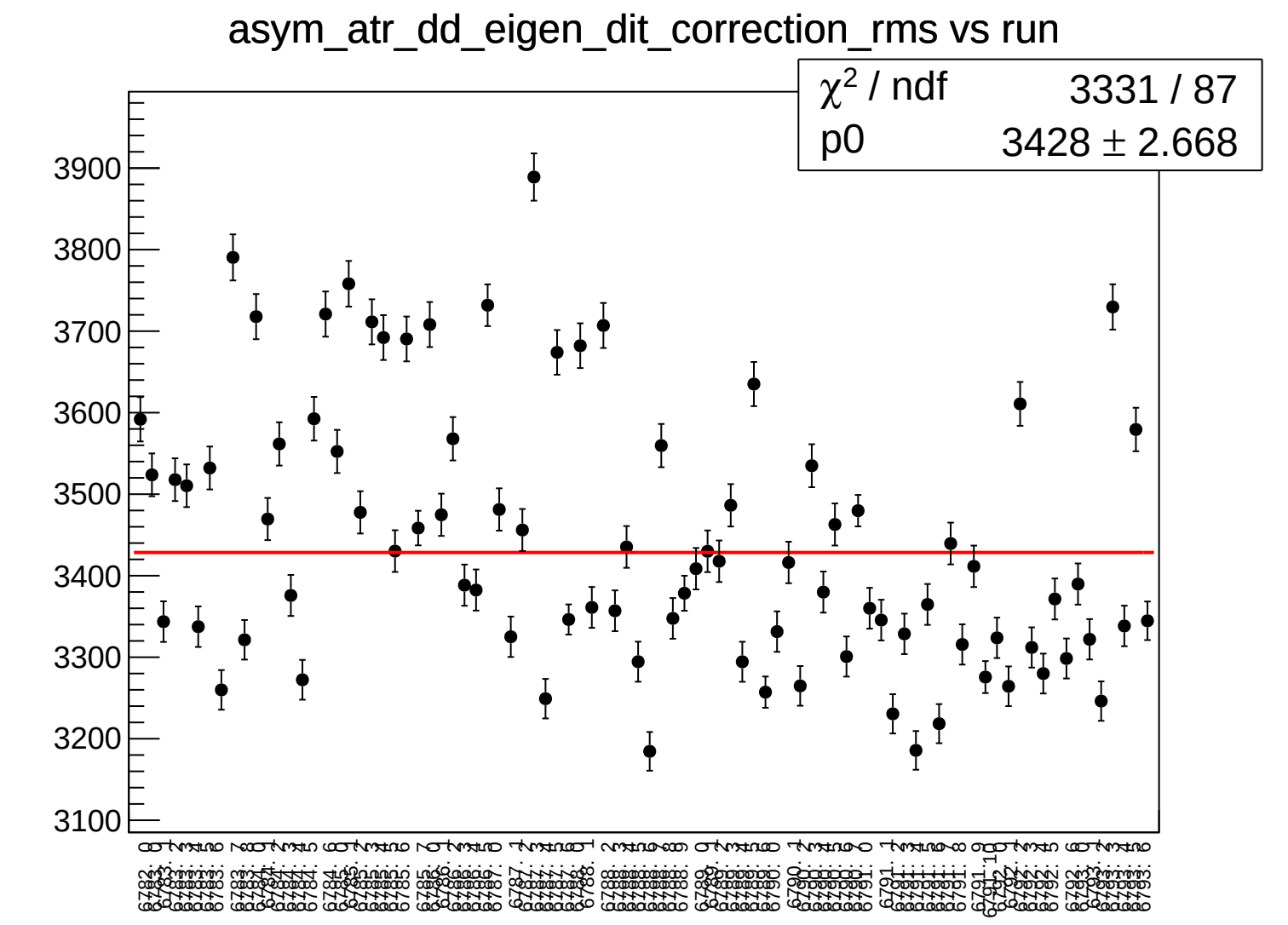

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 96.12 / 87
p0 575.5 ± 1985
pull
Entries 88
Mean 85.91
Std Dev 76.8

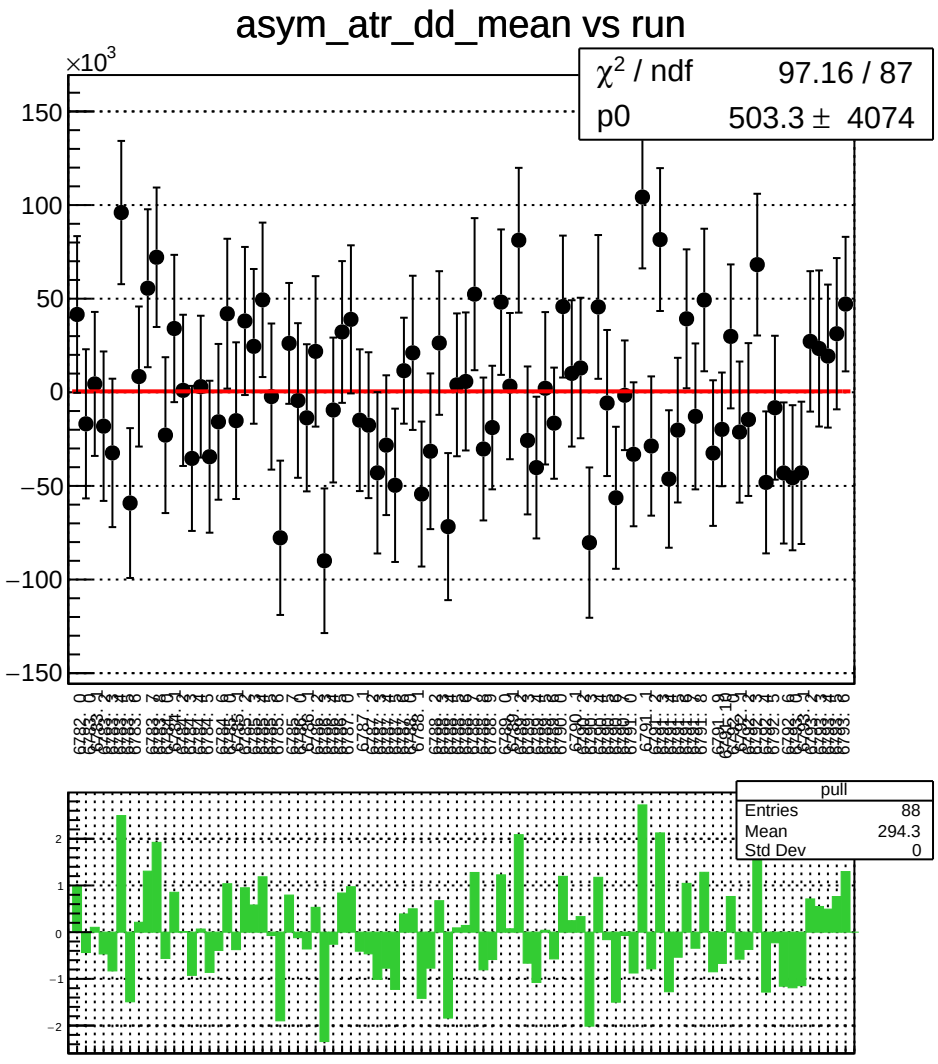

pull1D
Entries 88
Mean 0.006182
Std Dev 1.045

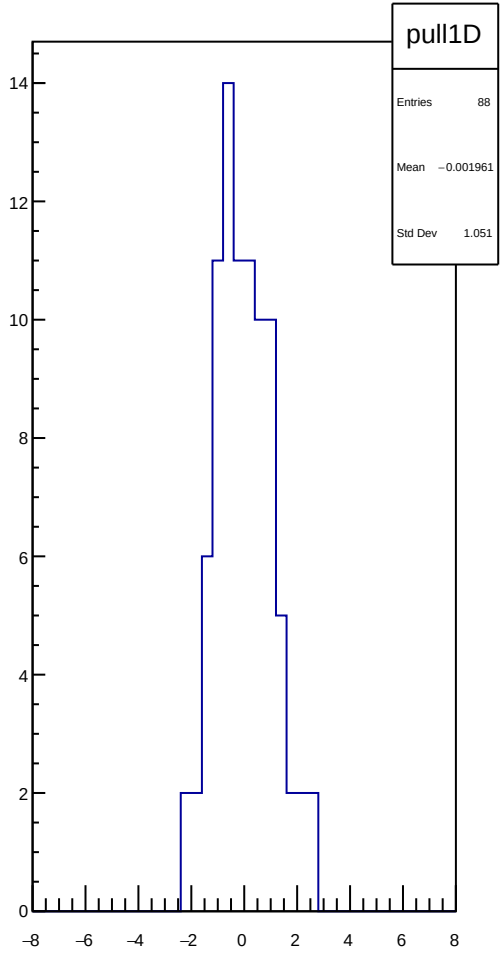

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 87.94 / 87
p0 1806 ± 1.404
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

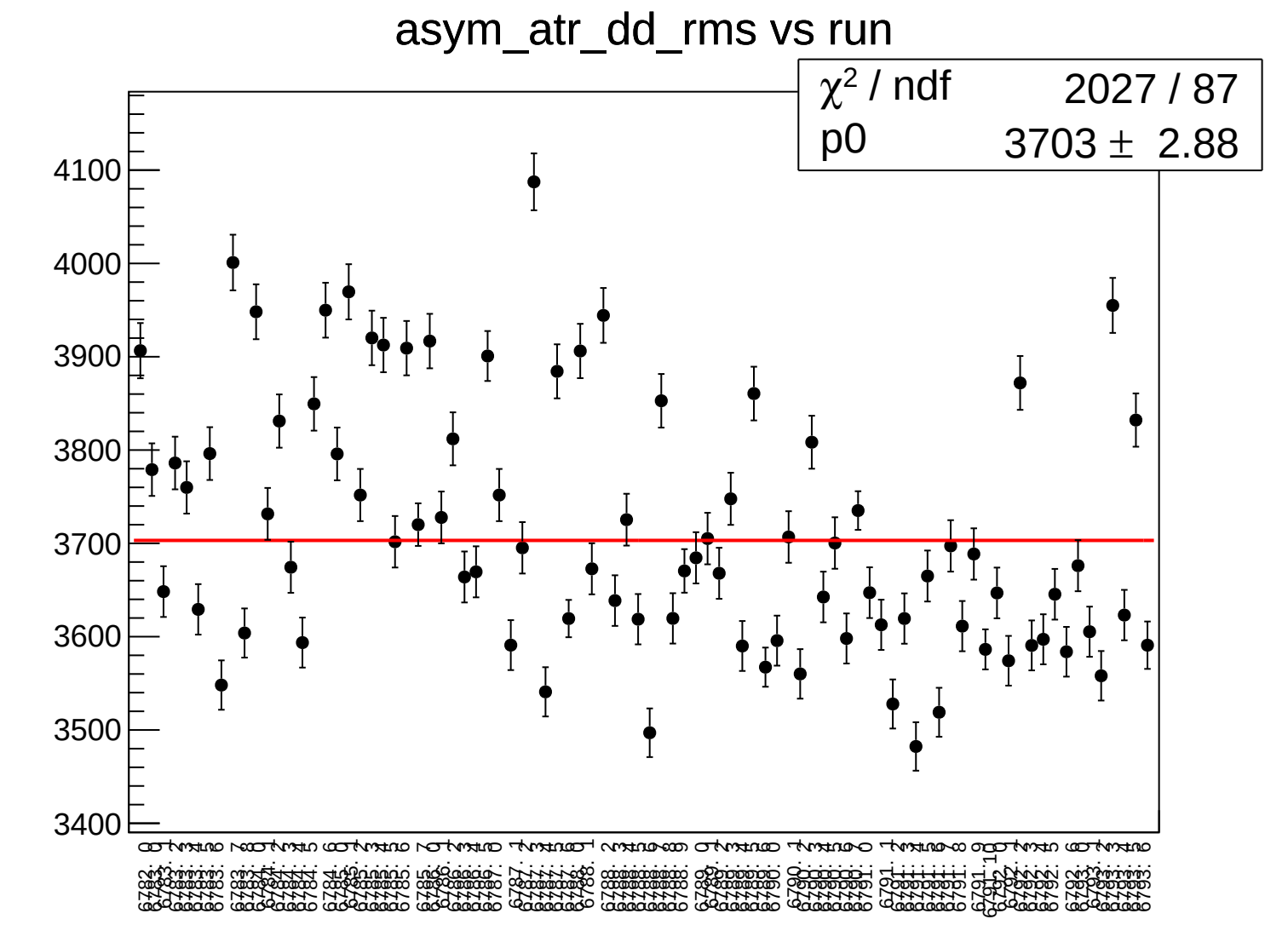

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.19 / 87
p0 109.7 ± 3773
100
50
0
−50
−100
pull
Entries 88
Mean 176.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

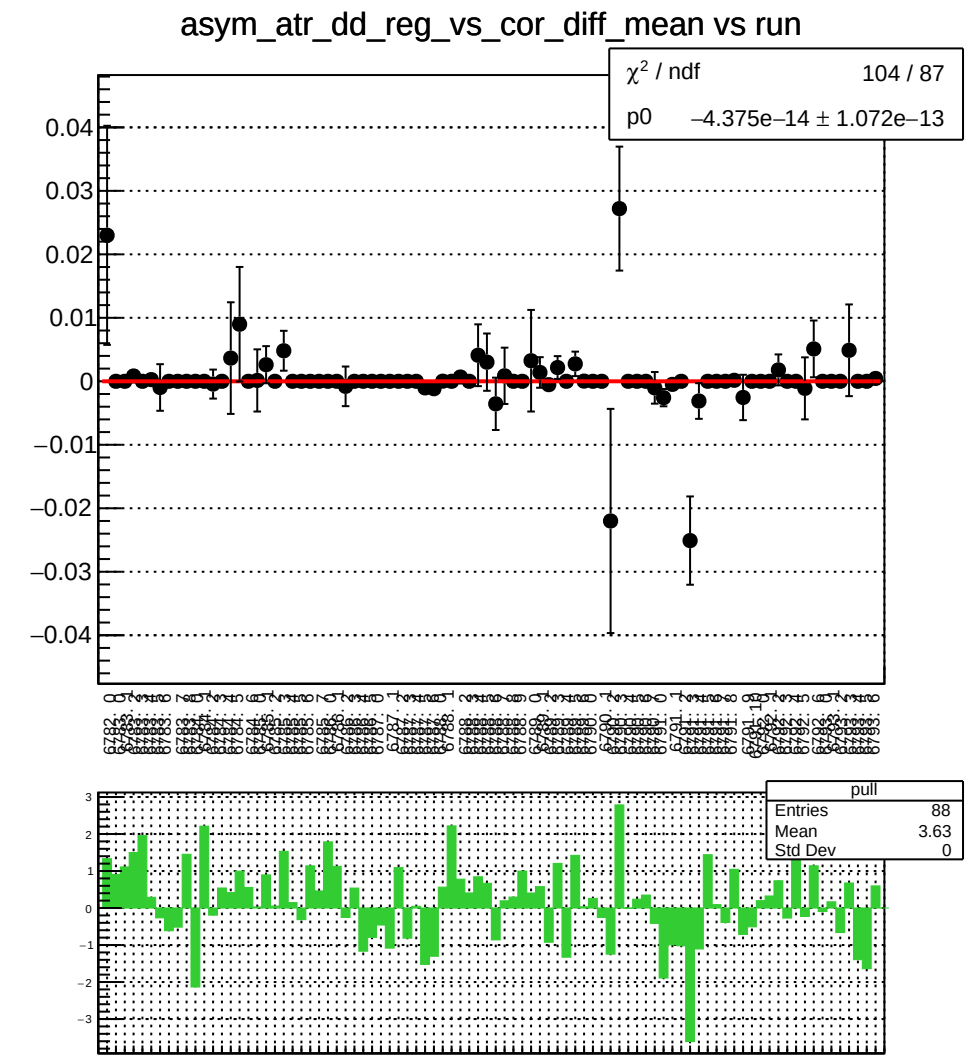

pull1D
Entries 88
Mean 0.004914
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

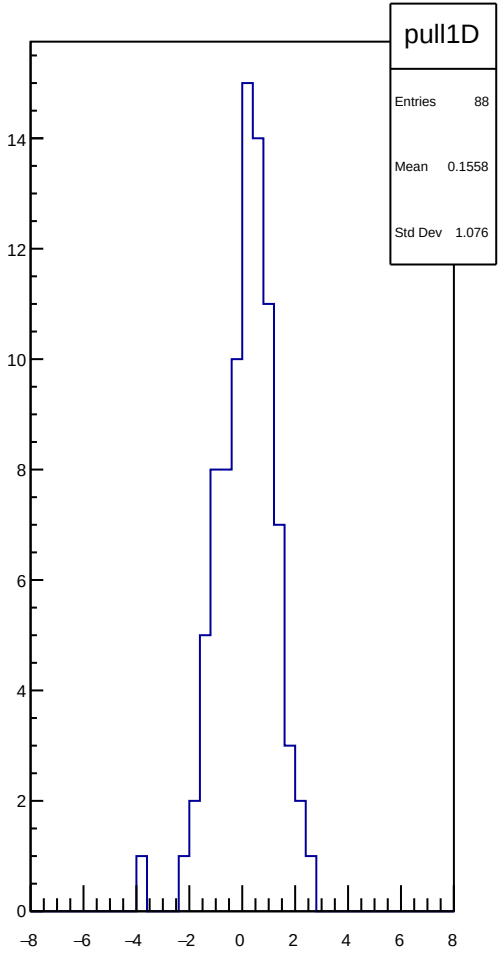

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3331 / 87
p0 3428 ± 2.668
3900
3800
3700
3600
3500
3400
3300
3200
3100

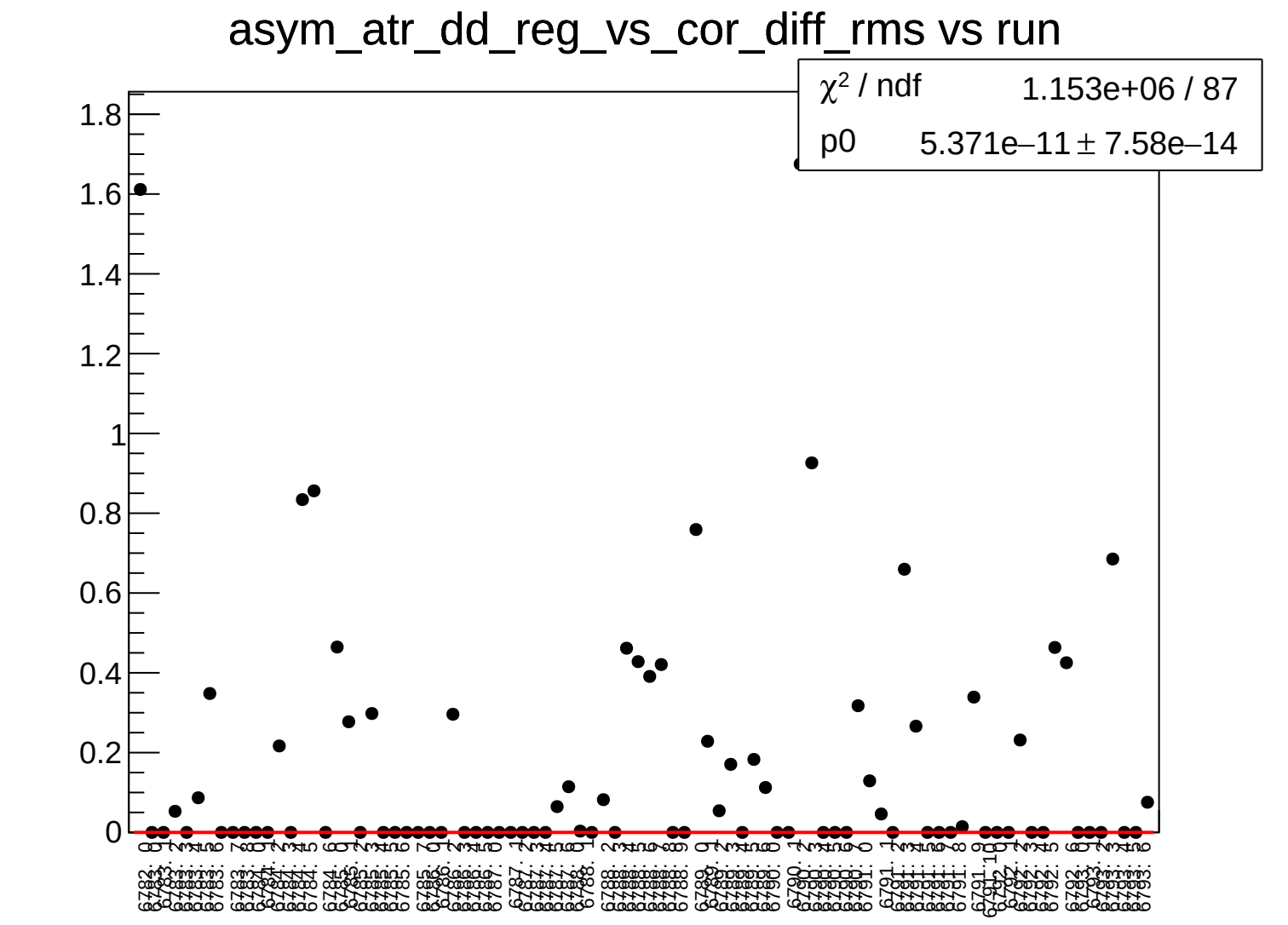

asym_atr_dd_mean vs run
×10^3
χ² / ndf 97.16 / 87
p0 503.3 ± 4074
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 294.3
Std Dev 0
2
1
0
−1
−2

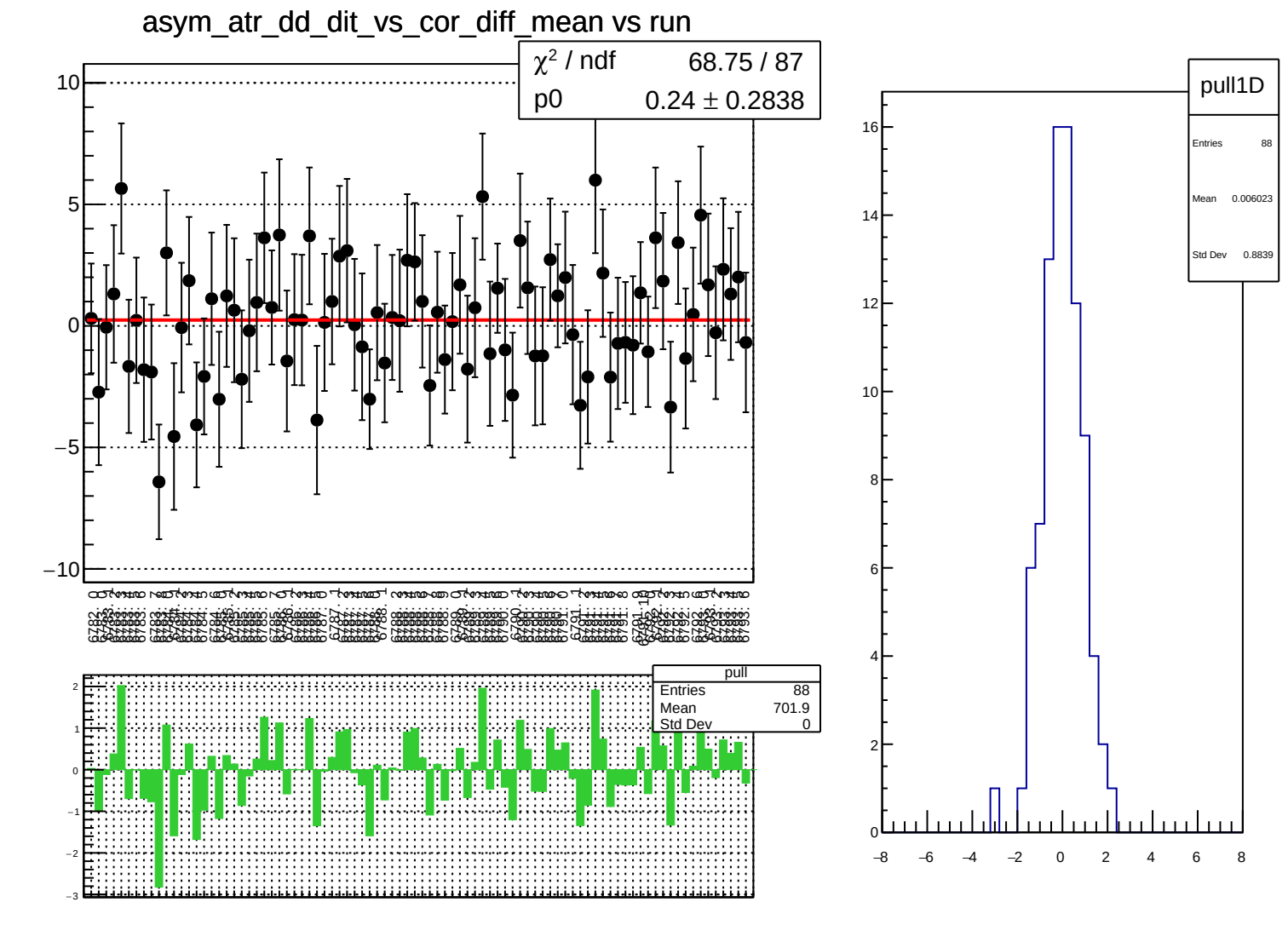

pull1D
Entries 88
Mean −0.001961
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

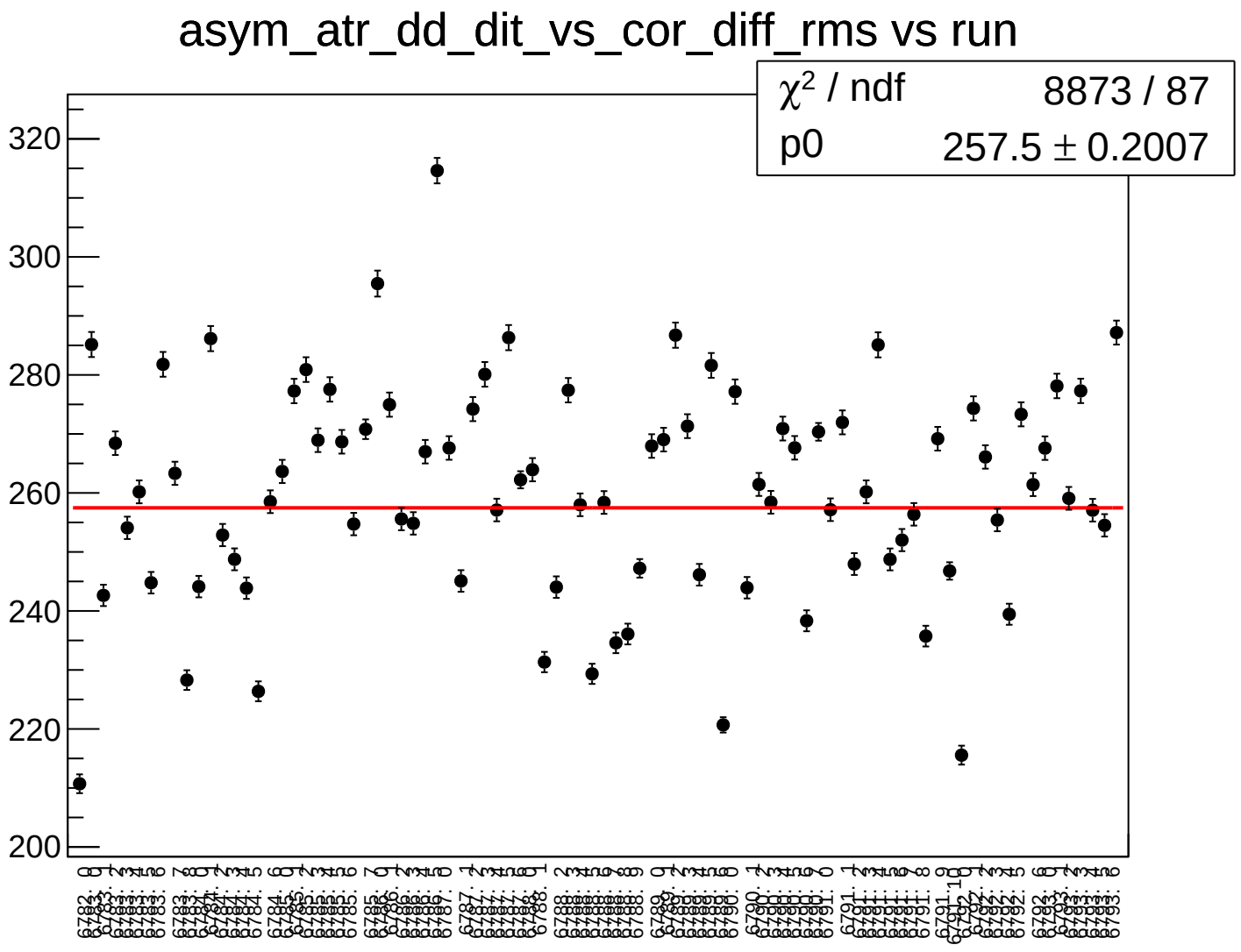

asym_atr_dd_rms vs run
χ² / ndf 2027 / 87
p0 3703 ± 2.88
4100
4000
3900
3800
3700
3600
3500
3400

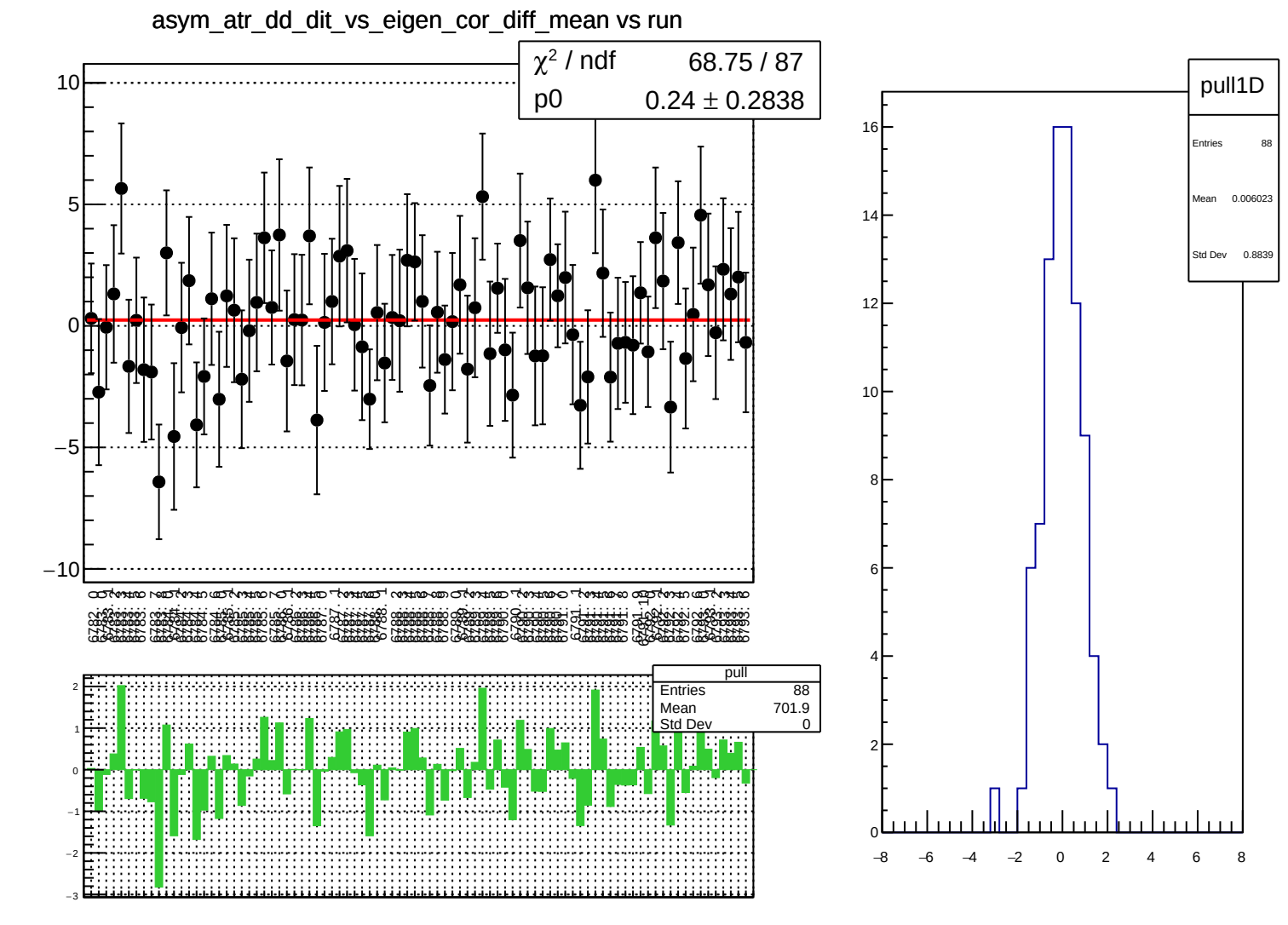

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 87
p0 −4.375e−14 ± 1.072e−13
pull
Entries 88
Mean 3.63
Std Dev 0

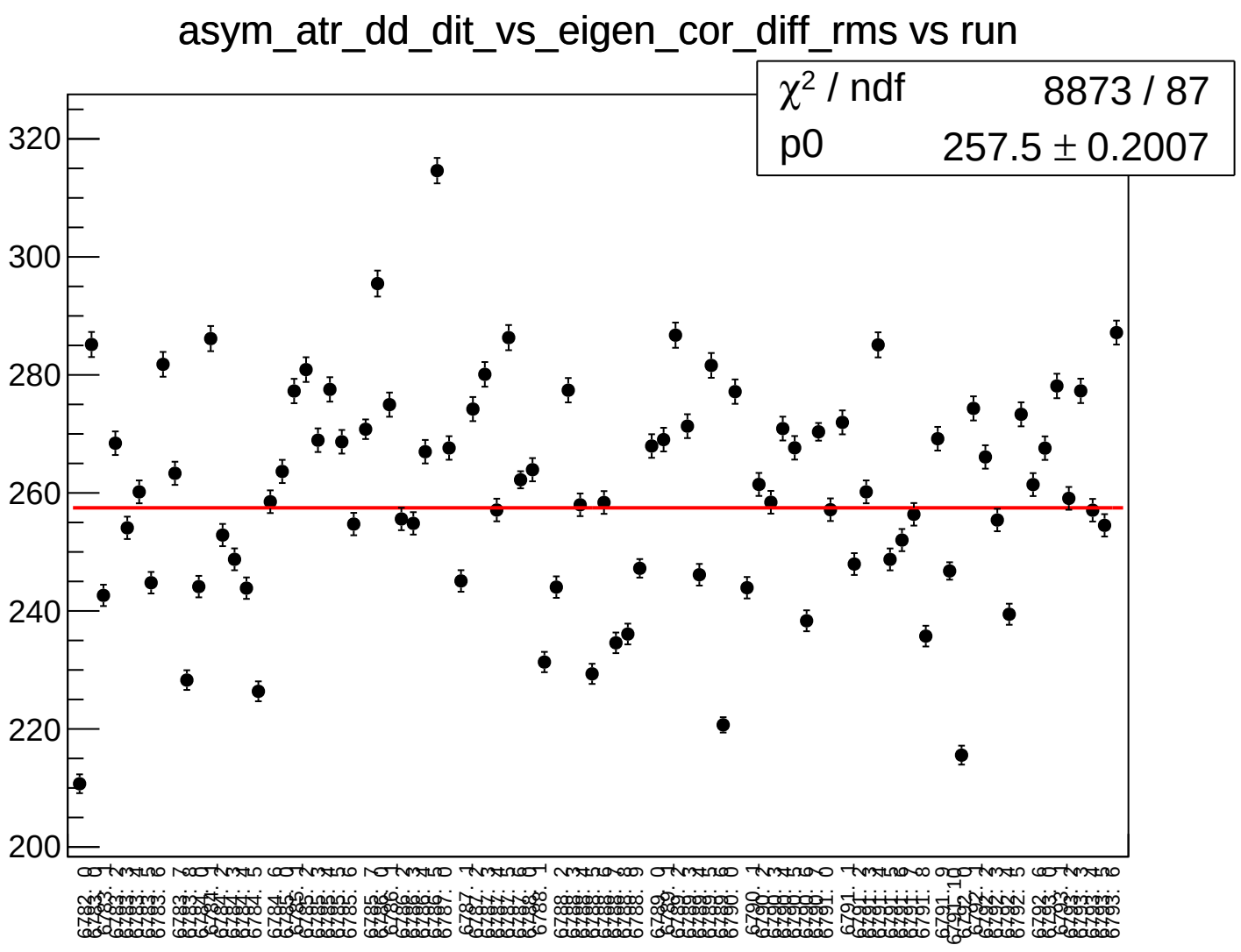

pull1D
Entries 88
Mean 0.1558
Std Dev 1.076

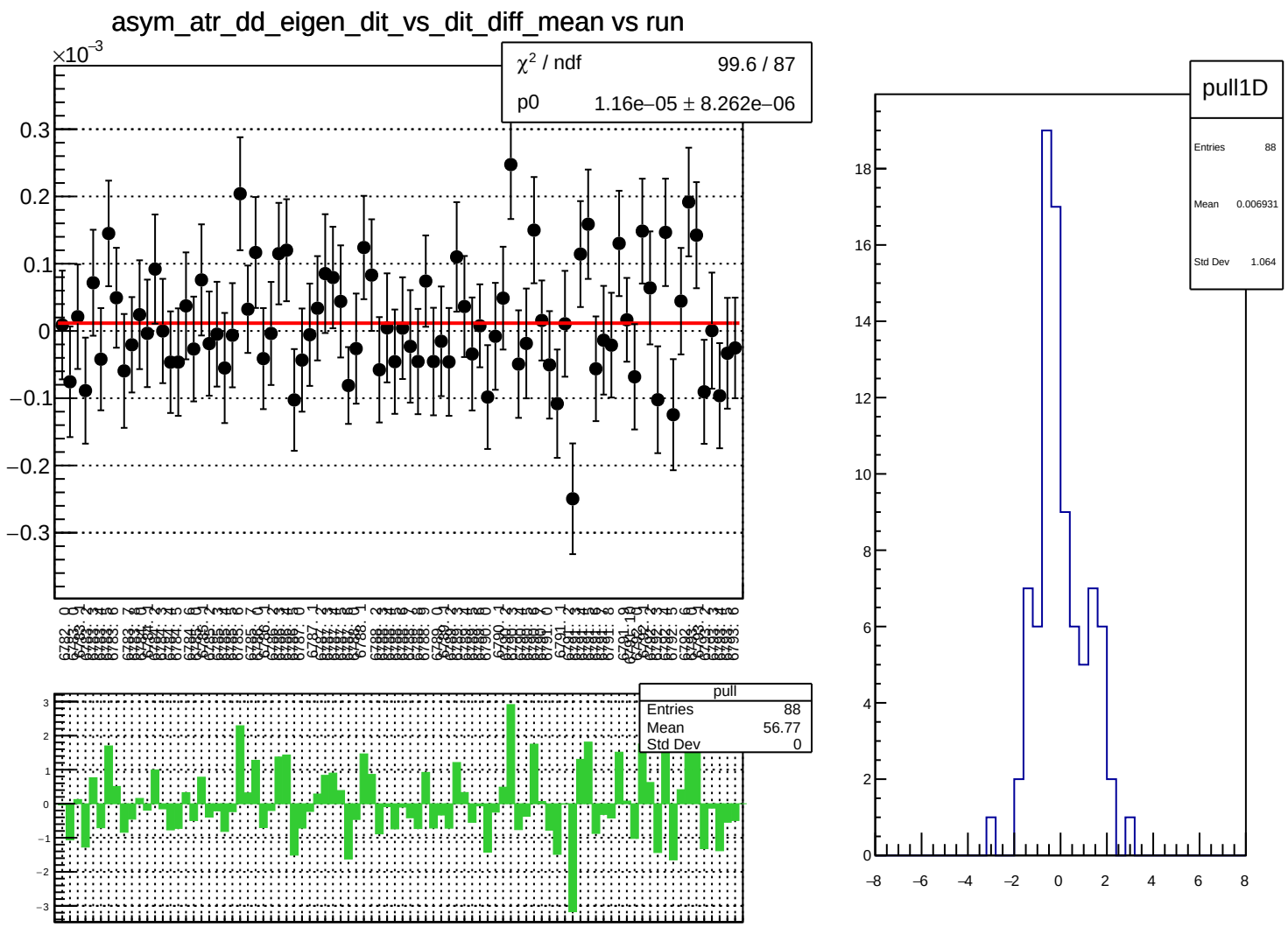

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.153e+06 / 87
p0 5.371e−11 ± 7.58e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

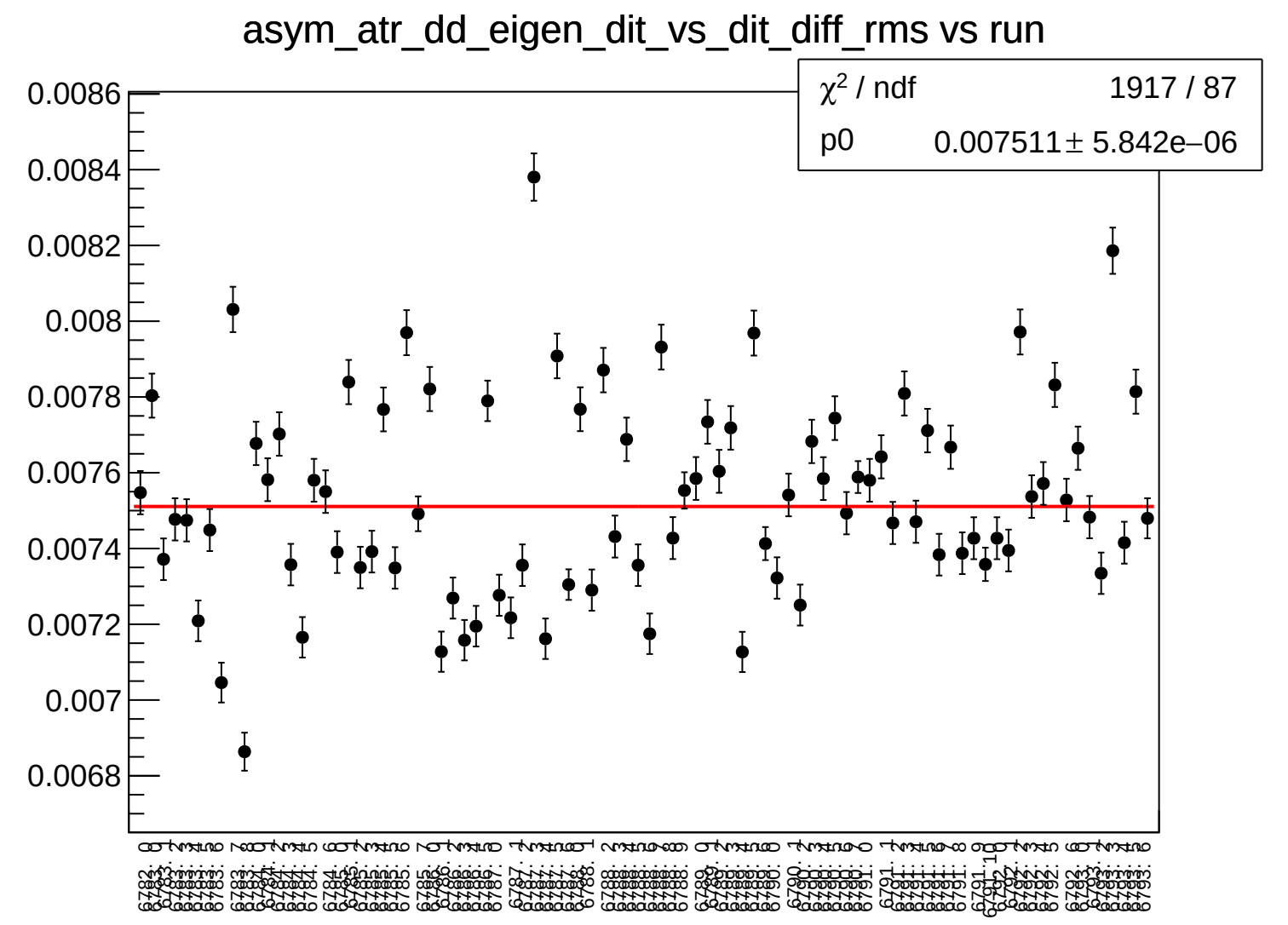

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.75 / 87
p0 0.24 ± 0.2838
pull
Entries 88
Mean 701.9
Std Dev 0
pull1D
Entries 88
Mean 0.006023
Std Dev 0.8839

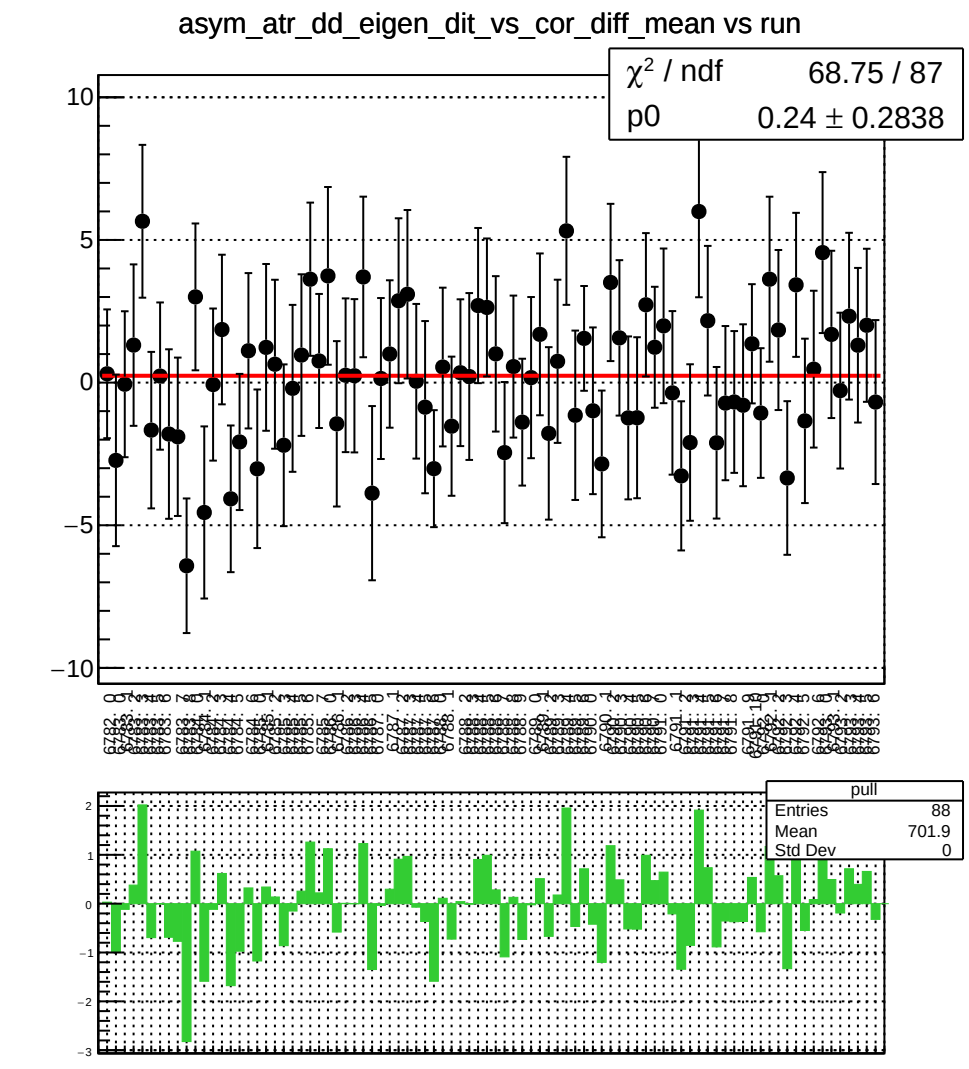

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8873 / 87
p0 257.5 ± 0.2007
320
300
280
260
240
220
200

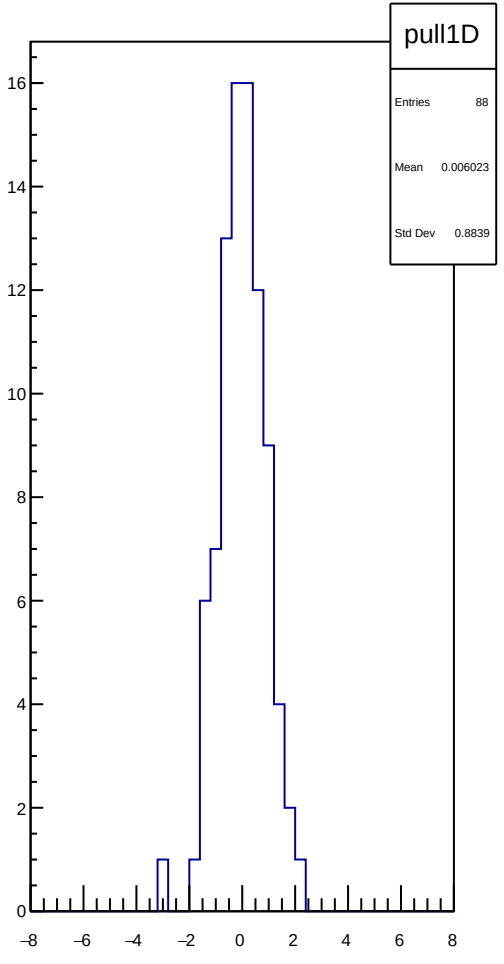

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.75 / 87
p0 0.24 ± 0.2838
pull
Entries 88
Mean 701.9
Std Dev 0
pull1D
Entries 88
Mean 0.006023
Std Dev 0.8839

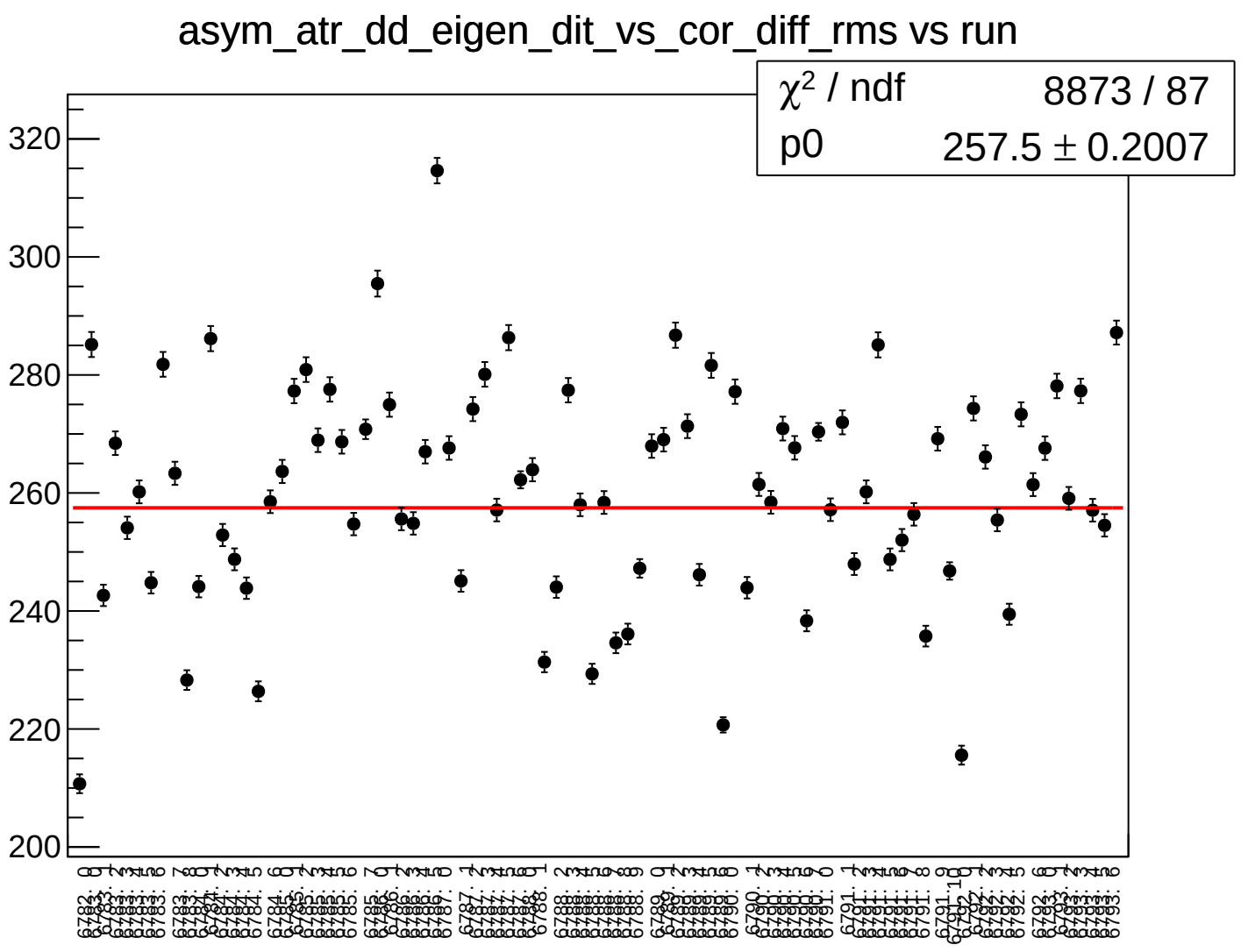

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8873 / 87
p0 257.5 ± 0.2007
320
300
280
260
240
220
200

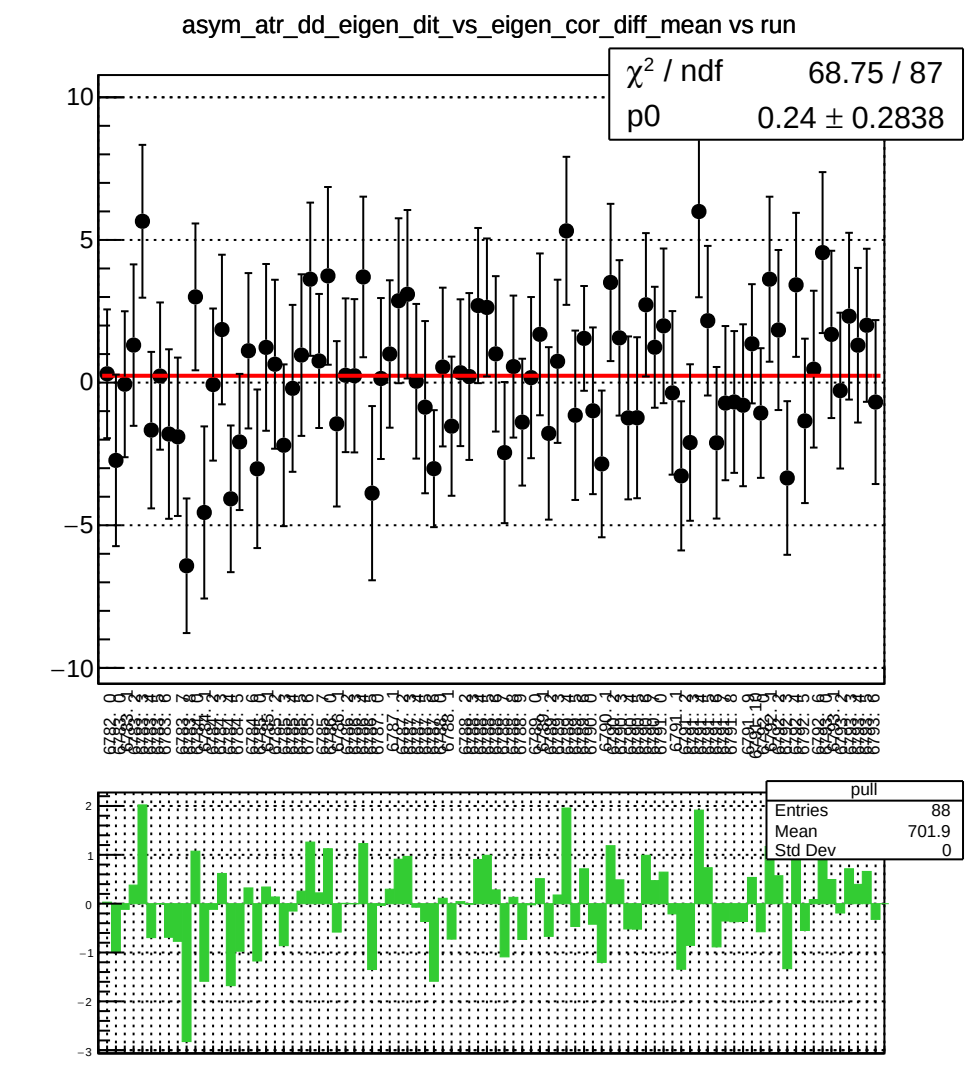

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.6 / 87
p0 1.16e−05 ± 8.262e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean 56.77
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.006931
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

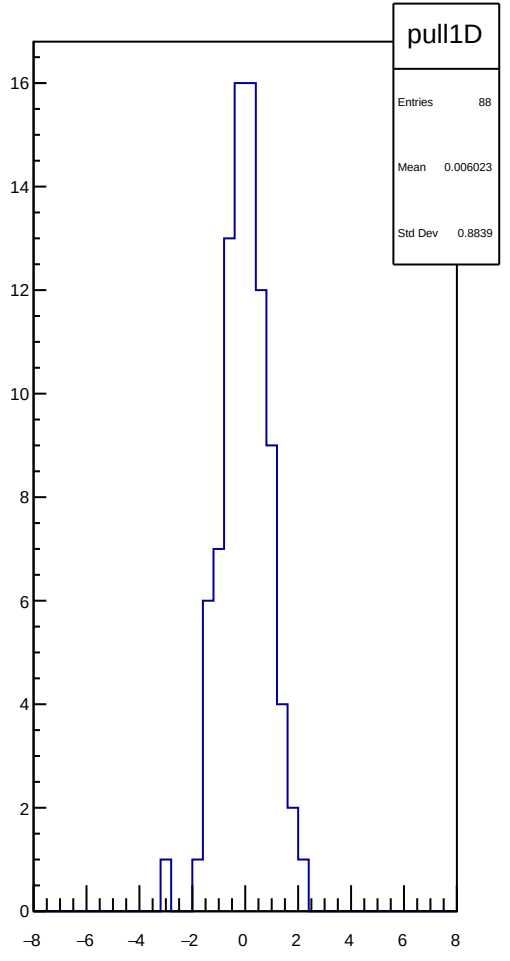

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1917 / 87
p0 0.007511 ± 5.842e−06
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

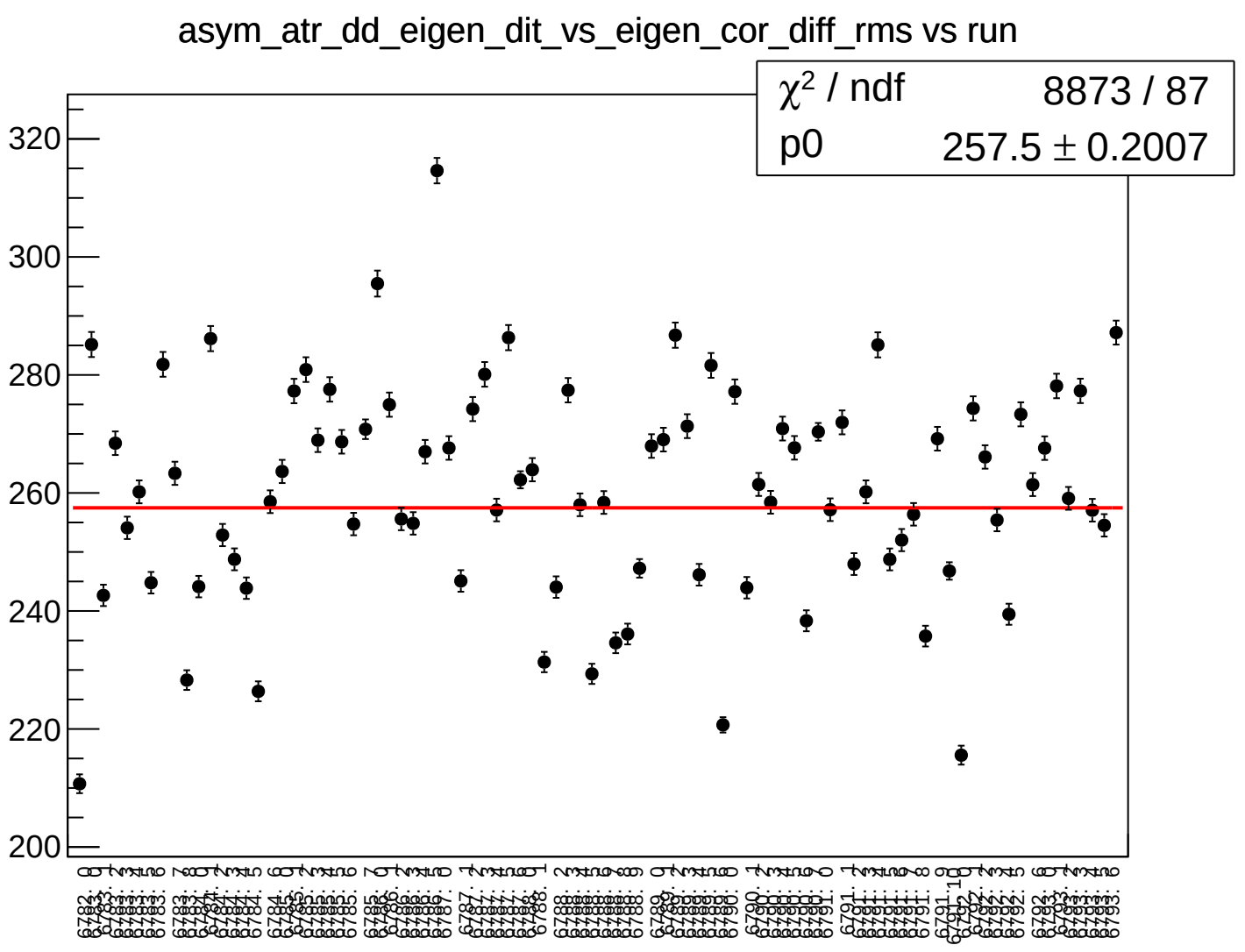

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.75 / 87
p0 0.24 ± 0.2838
pull
Entries 88
Mean 701.9
Std Dev 0

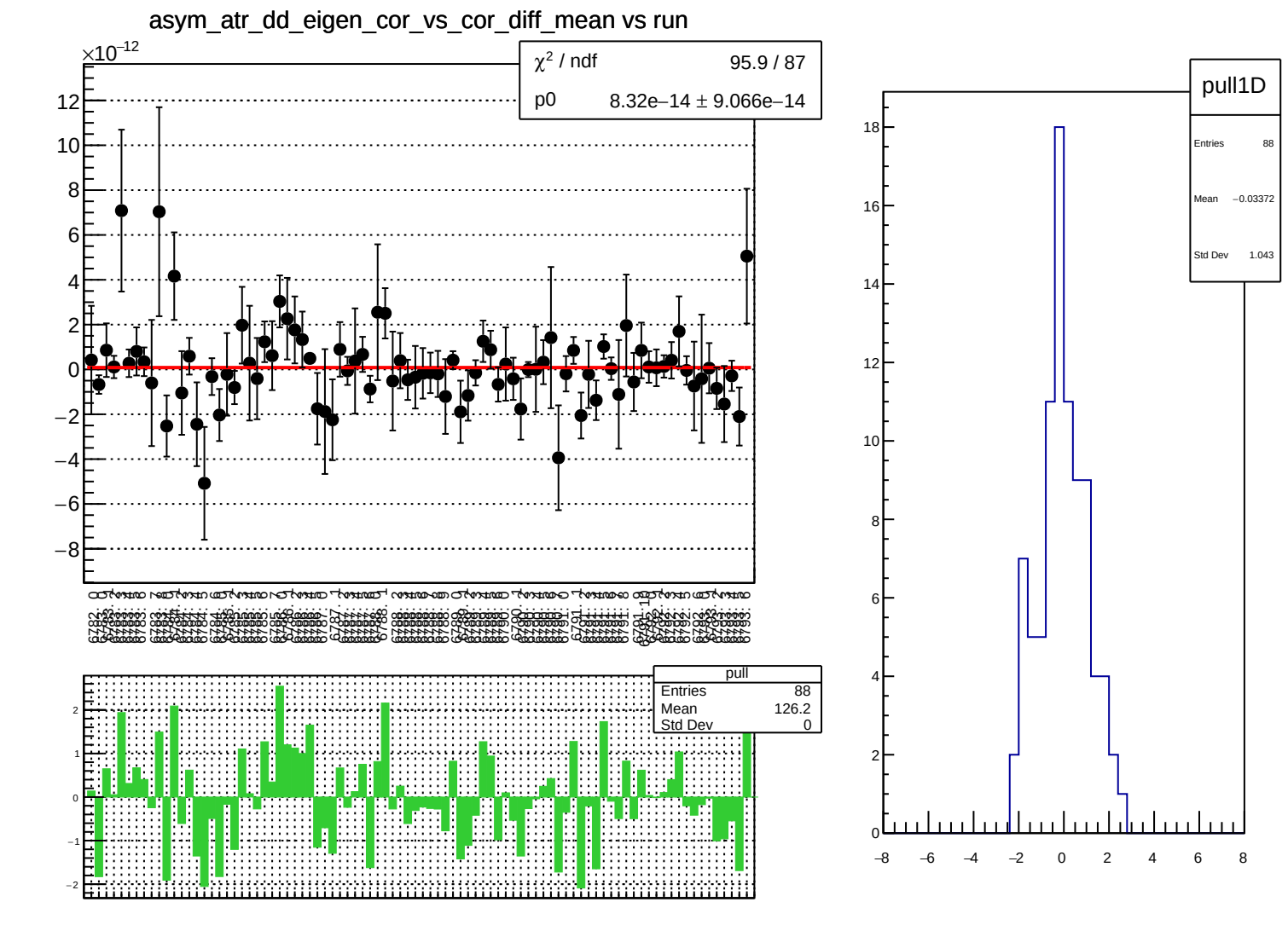

pull1D
Entries 88
Mean 0.006023
Std Dev 0.8839

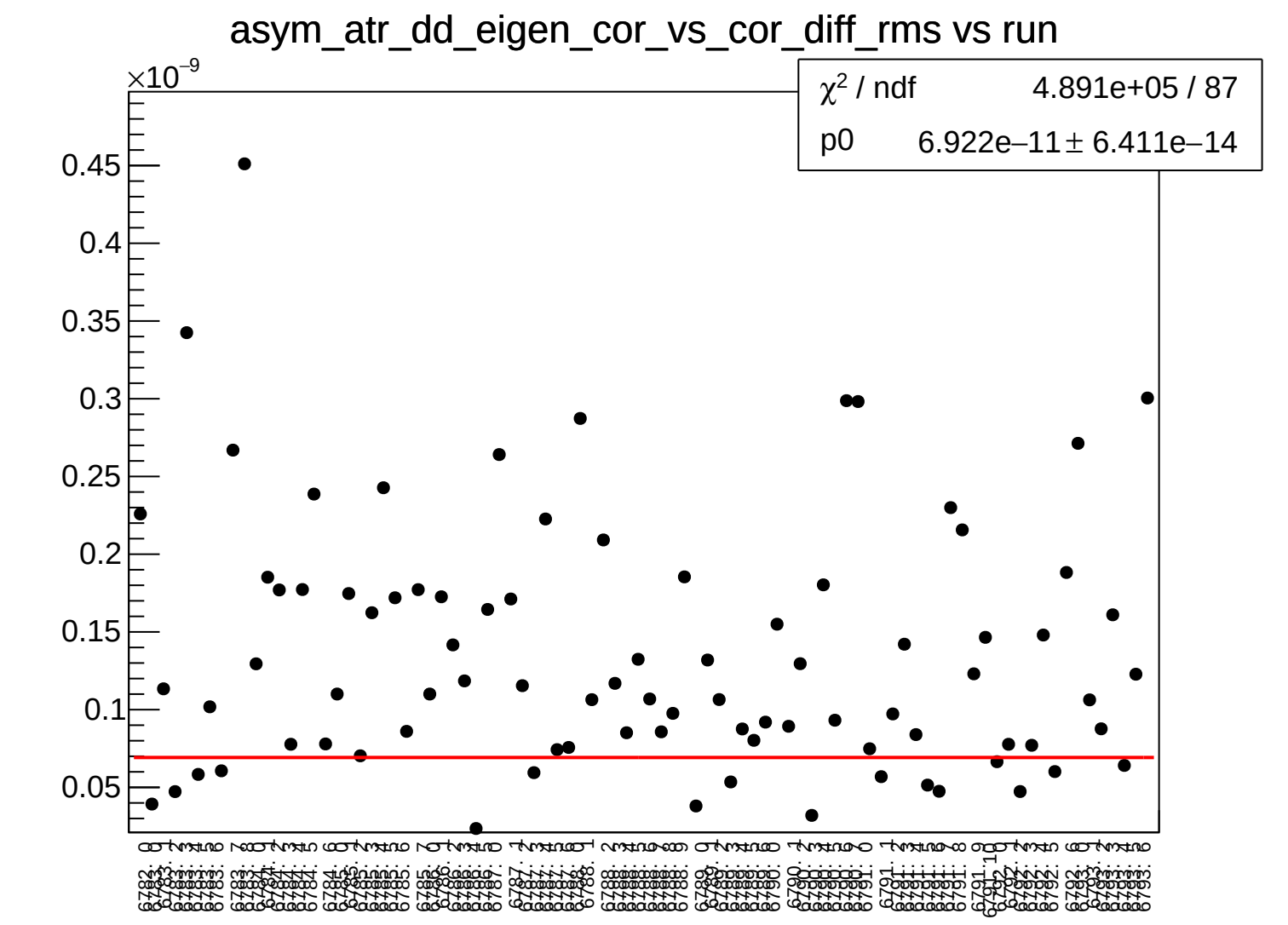

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8873 / 87
p0 257.5 ± 0.2007
320
300
280
260
240
220
200

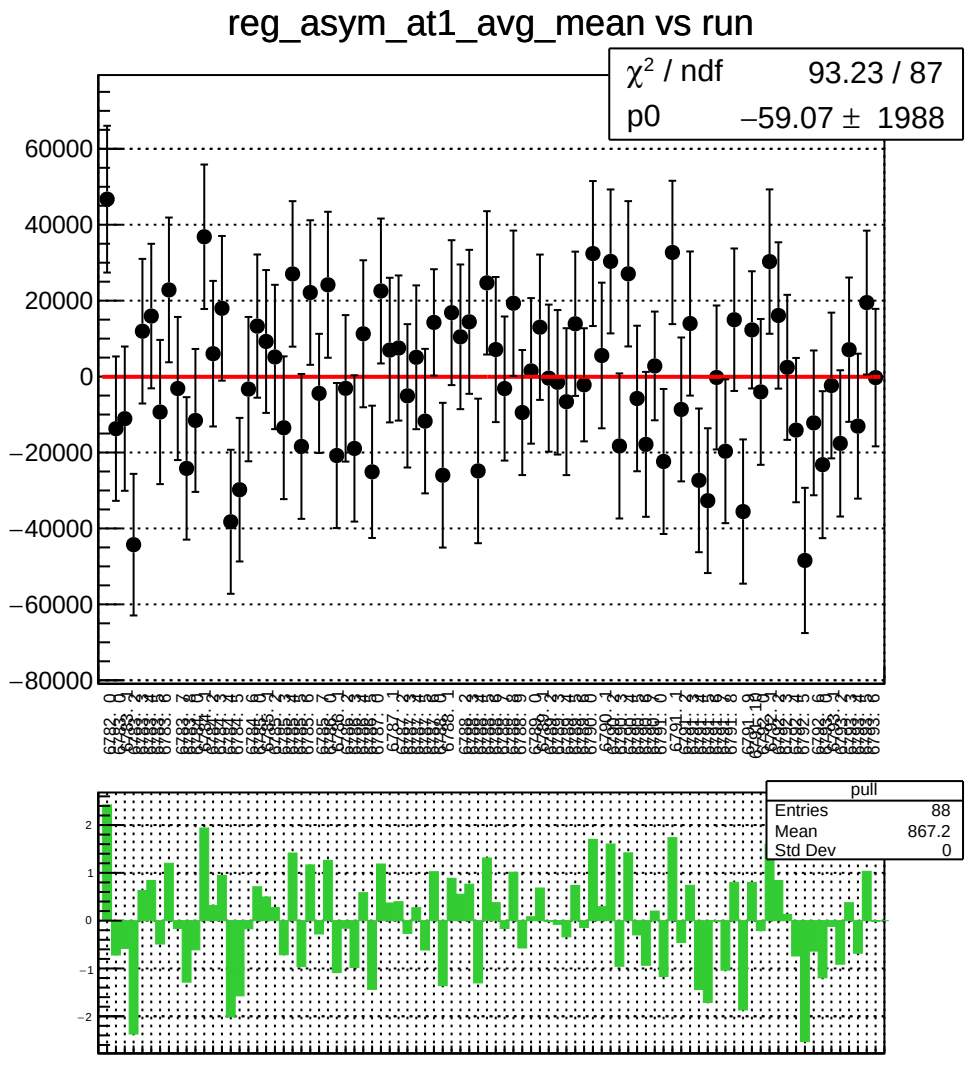

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.75 / 87
p0 0.24 ± 0.2838
pull
Entries 88
Mean 701.9
Std Dev 0

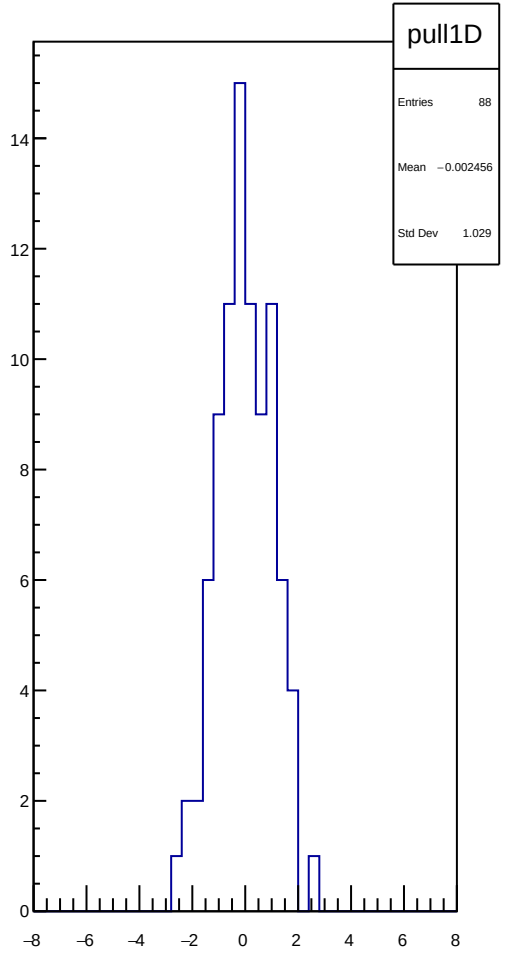

pull1D
Entries 88
Mean 0.006023
Std Dev 0.8839

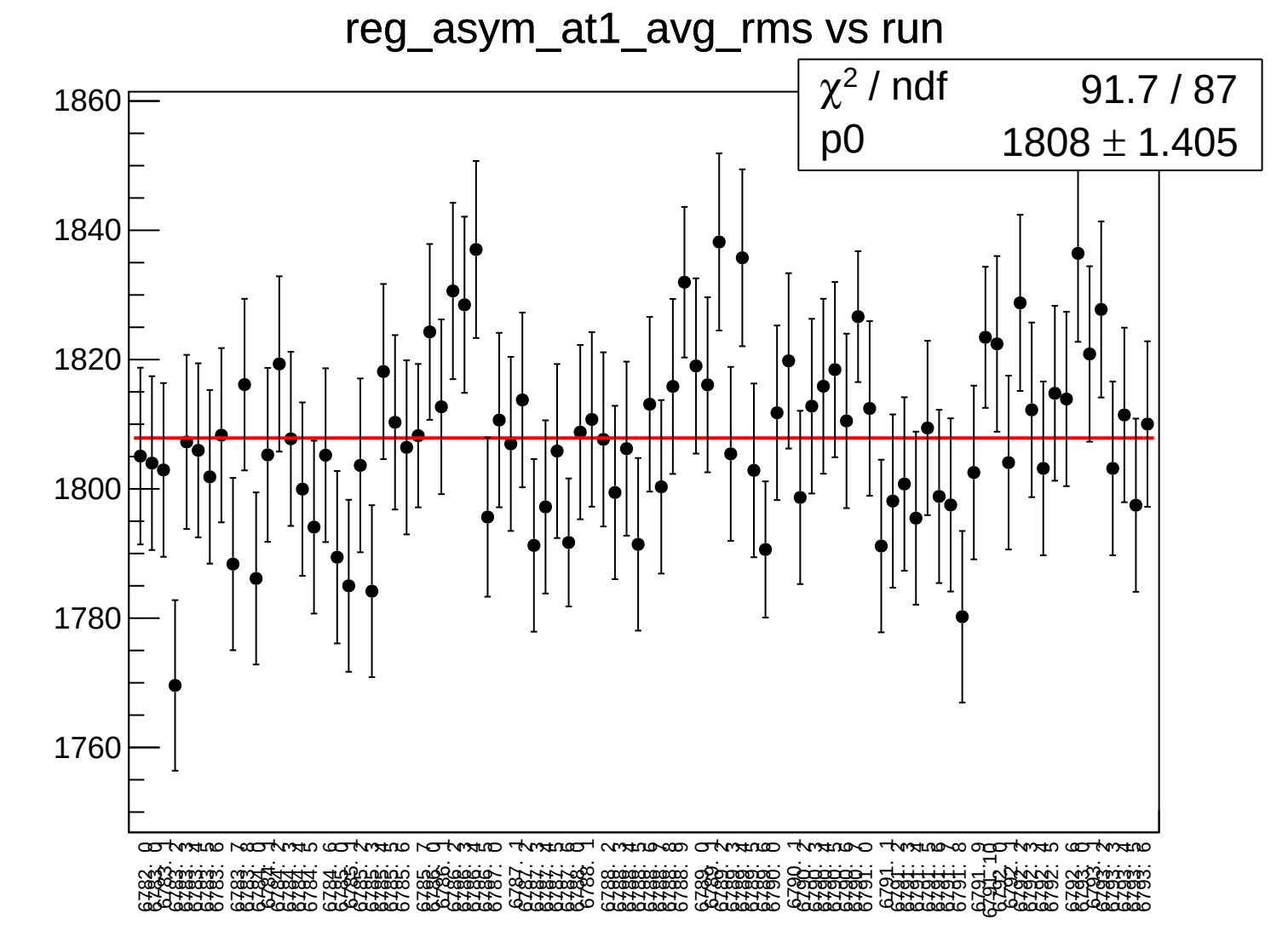

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8873 / 87
p0 257.5 ± 0.2007
320
300
280
260
240
220
200

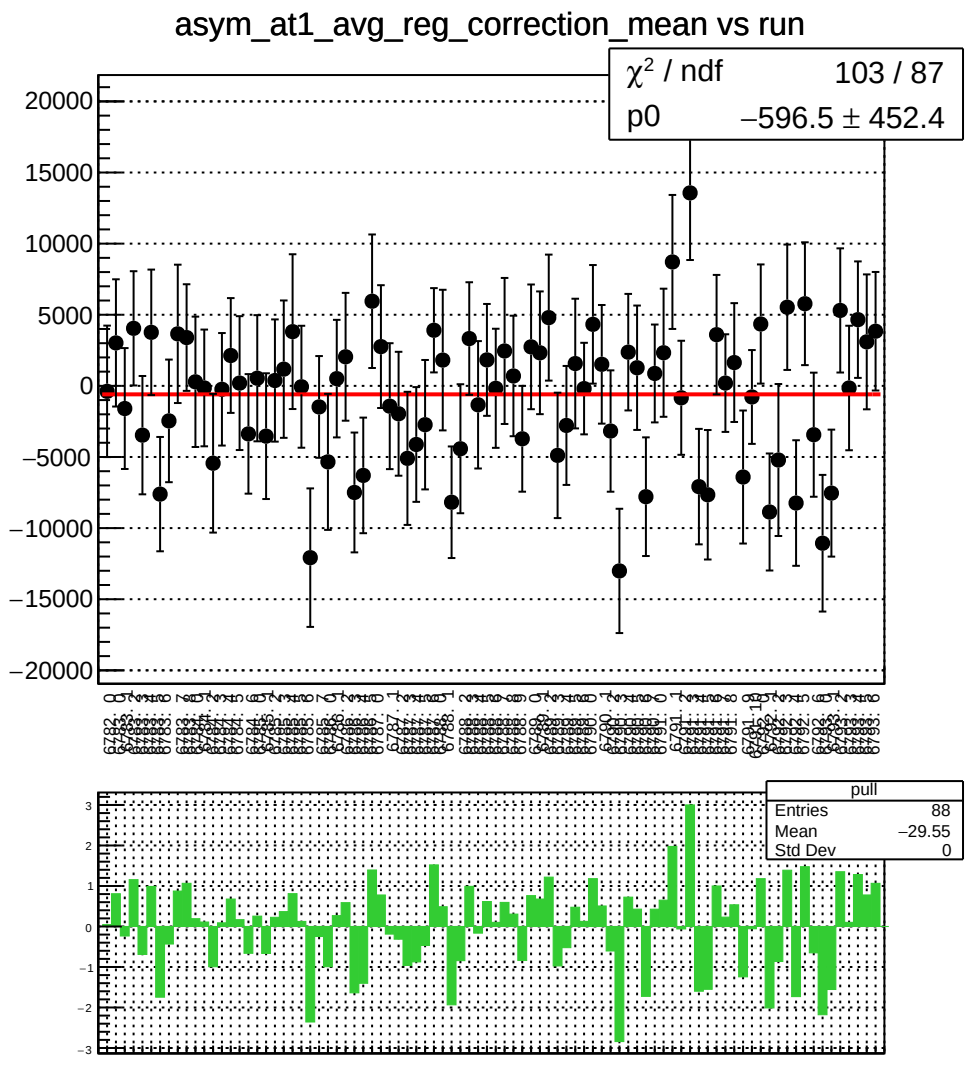

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.9 / 87
p0 8.32e−14 ± 9.066e−14
pull
Entries 88
Mean 126.2
Std Dev 0
pull1D
Entries 88
Mean −0.03372
Std Dev 1.043

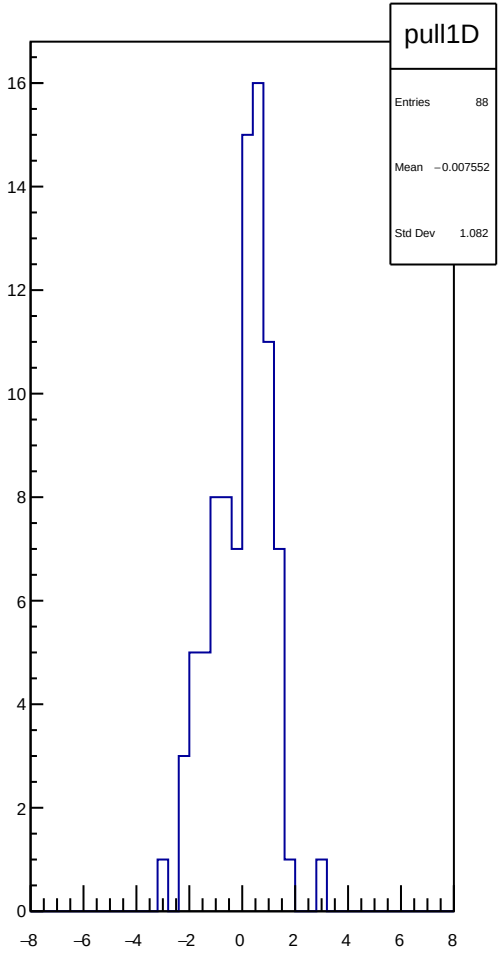

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.891e+05 / 87
p0 6.922e−11 ± 6.411e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

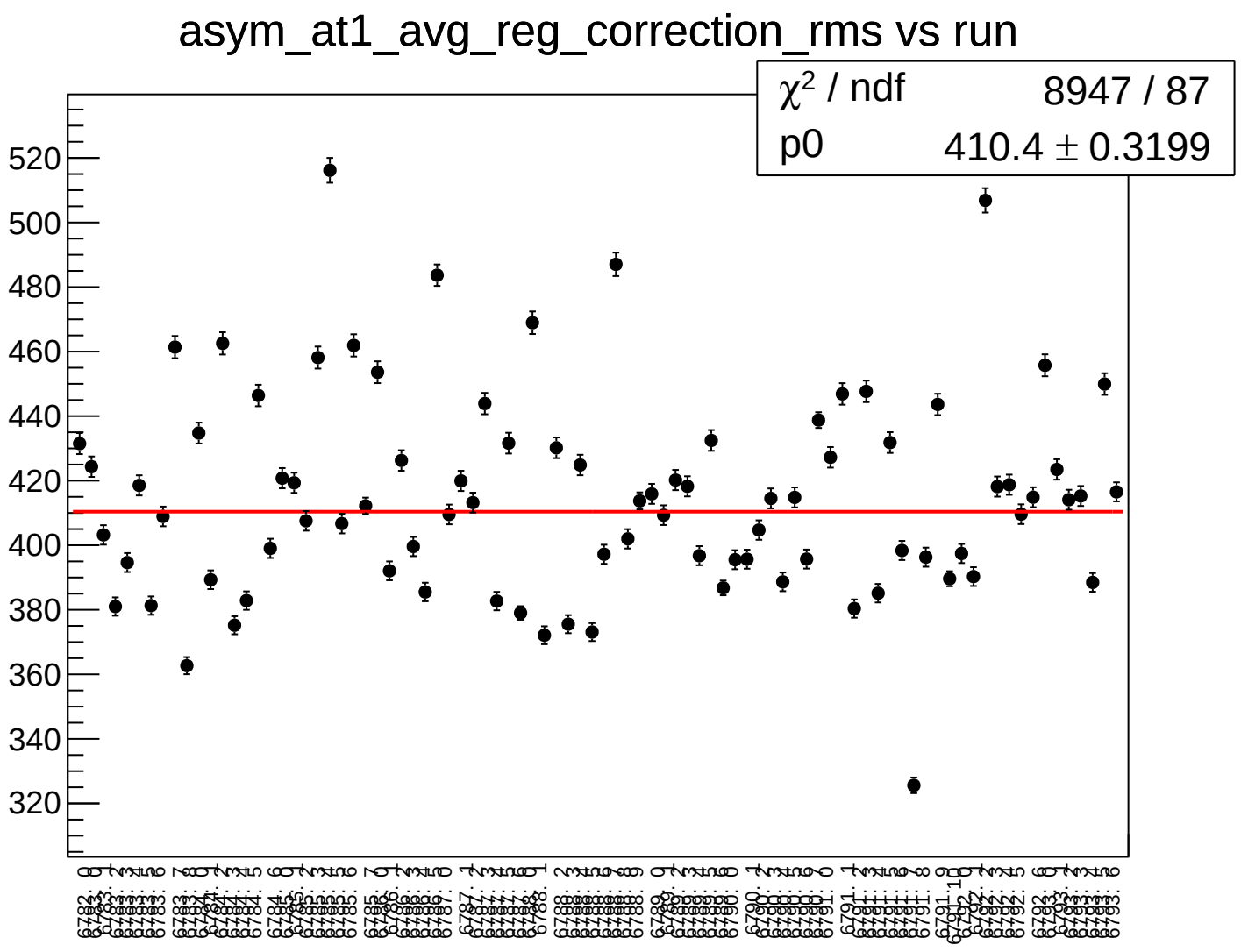

reg_asym_at1_avg_mean vs run
χ² / ndf 93.23 / 87
p0 −59.07 ± 1988
pull
Entries 88
Mean 867.2
Std Dev 0

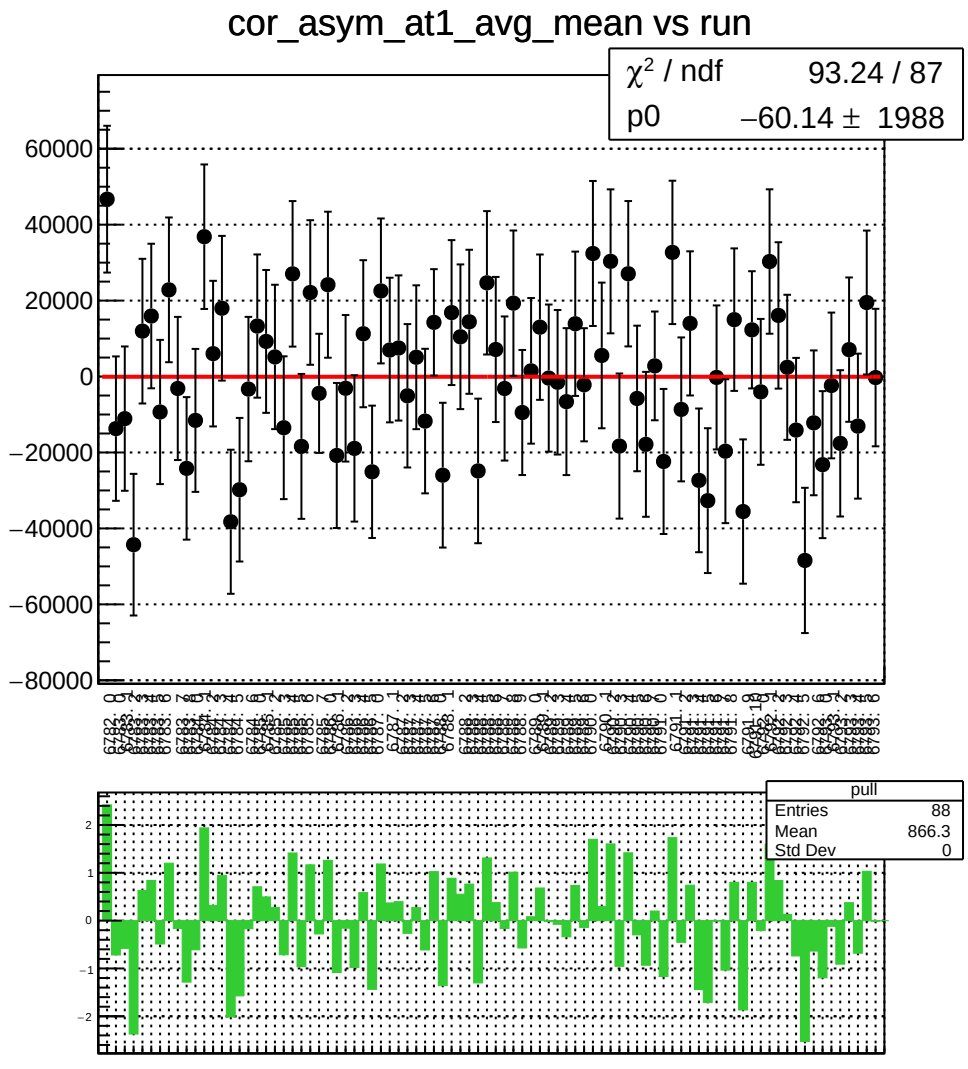

pull1D
Entries 88
Mean −0.002456
Std Dev 1.029

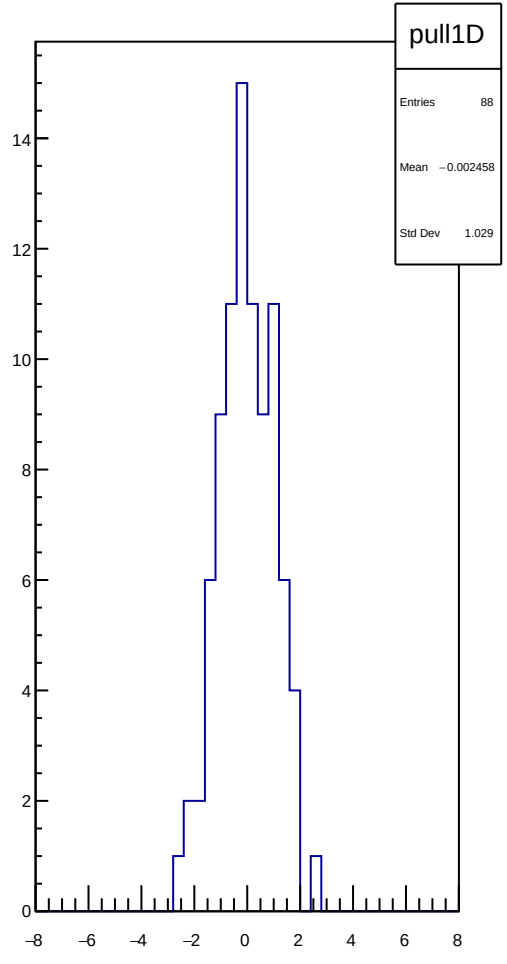

reg_asym_at1_avg_rms vs run
χ² / ndf 91.7 / 87
p0 1808 ± 1.405
1860
1840
1820
1800
1780
1760

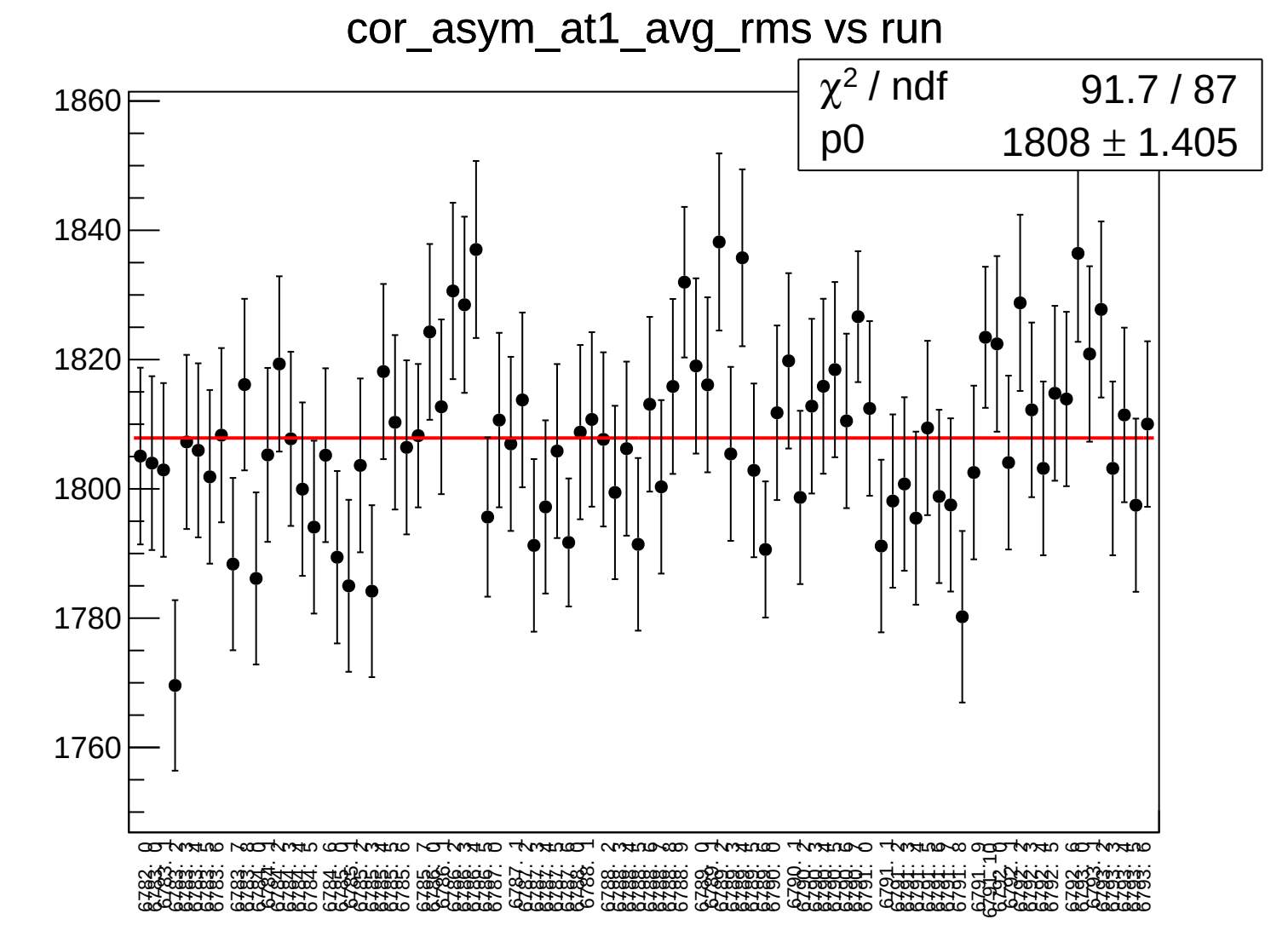

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 103 / 87
p0 −596.5 ± 452.4
pull
Entries 88
Mean −29.55
Std Dev 0

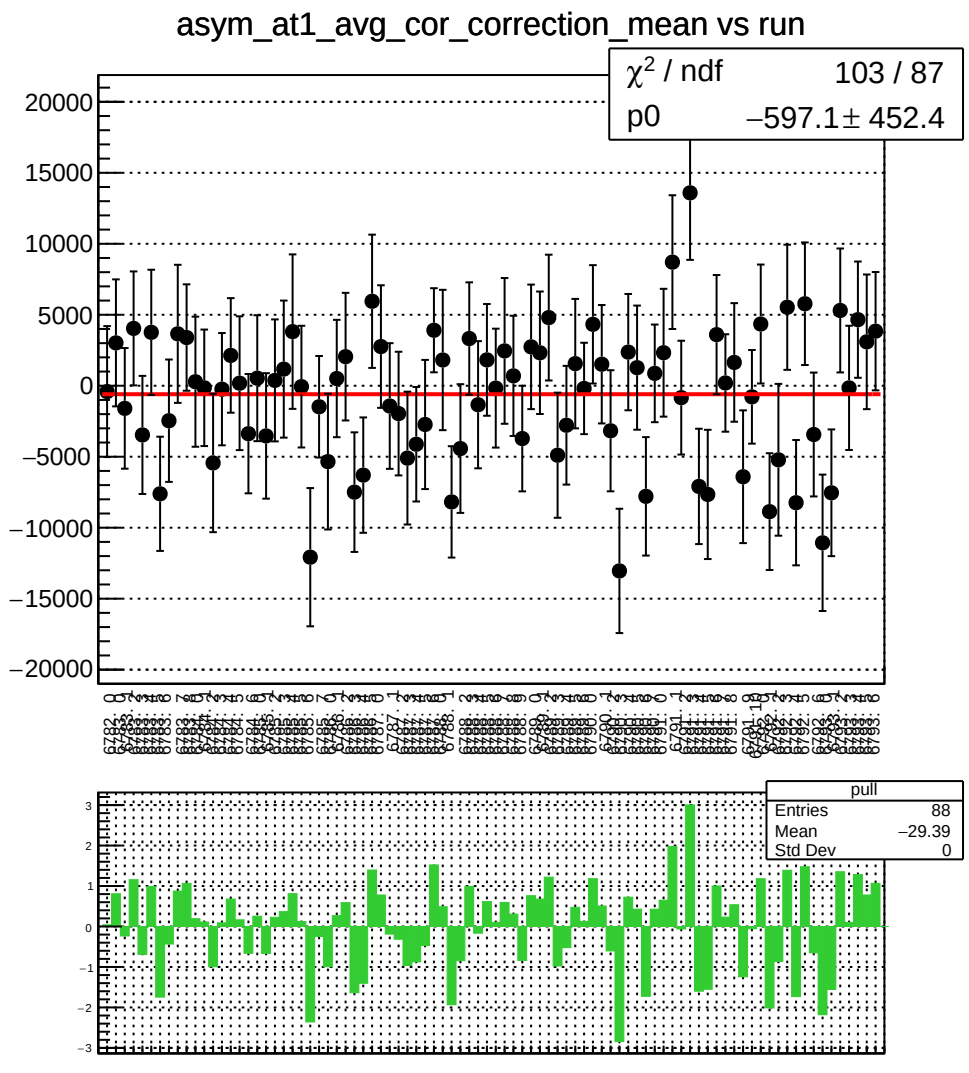

pull1D
Entries 88
Mean −0.007552
Std Dev 1.082

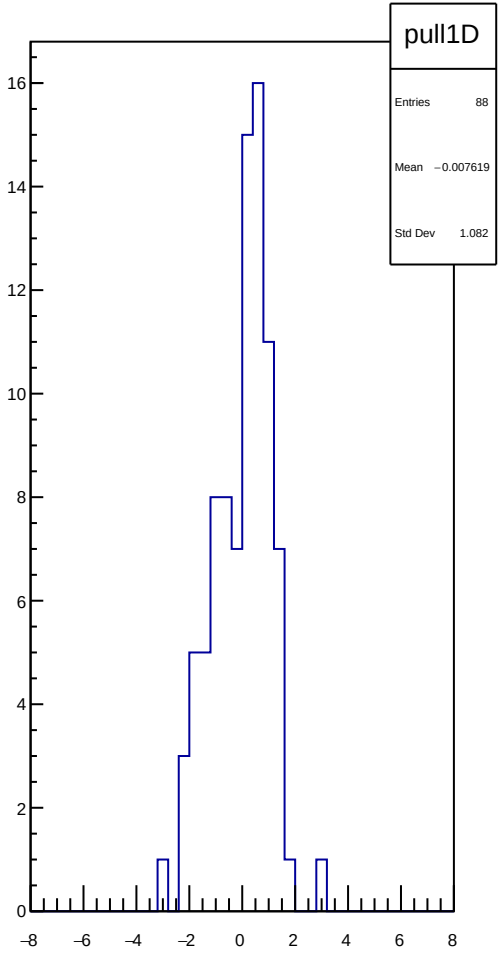

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 8947 / 87
p0 410.4 ± 0.3199
520
500
480
460
440
420
400
380
360
340
320

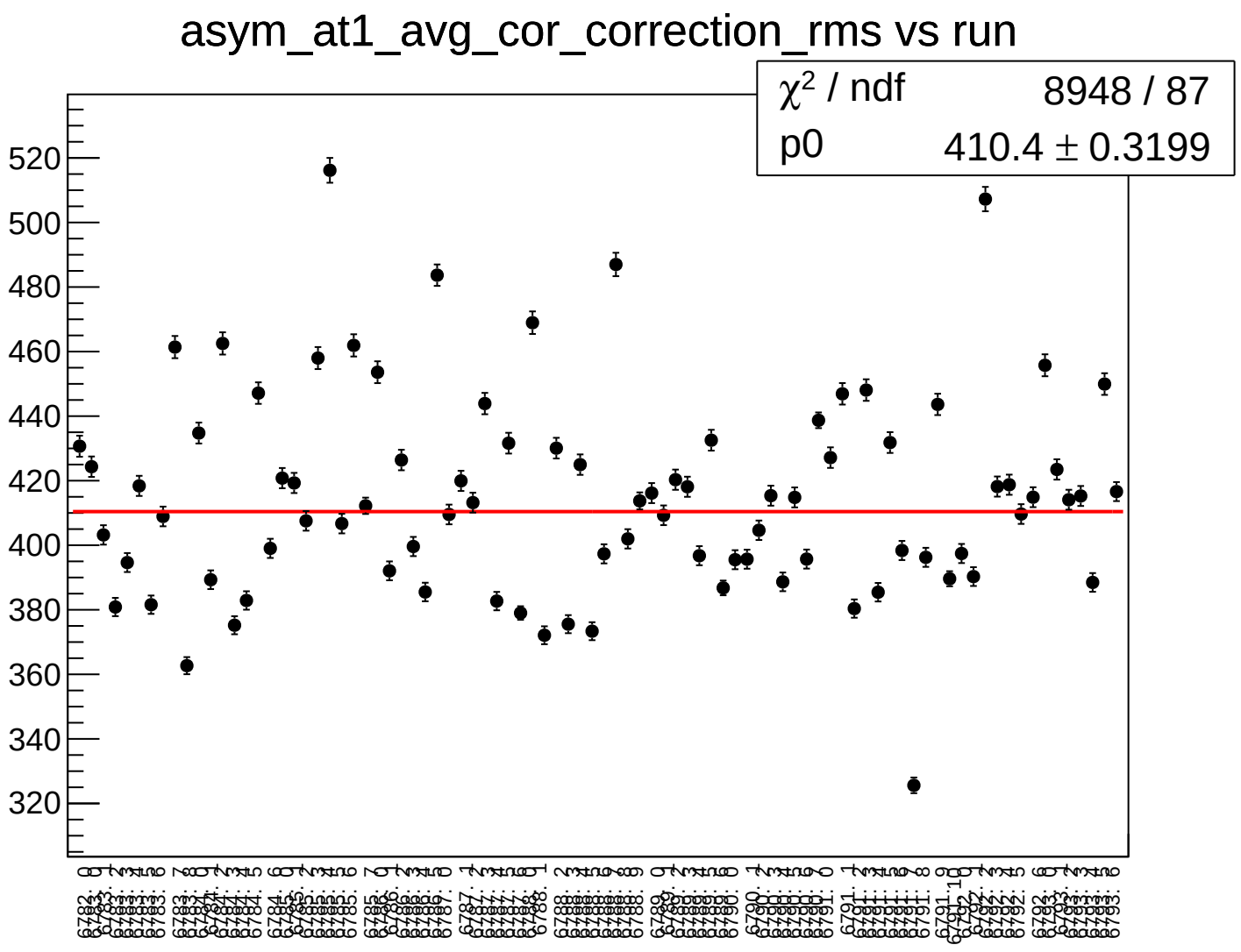

cor_asym_at1_avg_mean vs run
χ² / ndf 93.24 / 87
p0 −60.14 ± 1988
pull
Entries 88
Mean 866.3
Std Dev 0

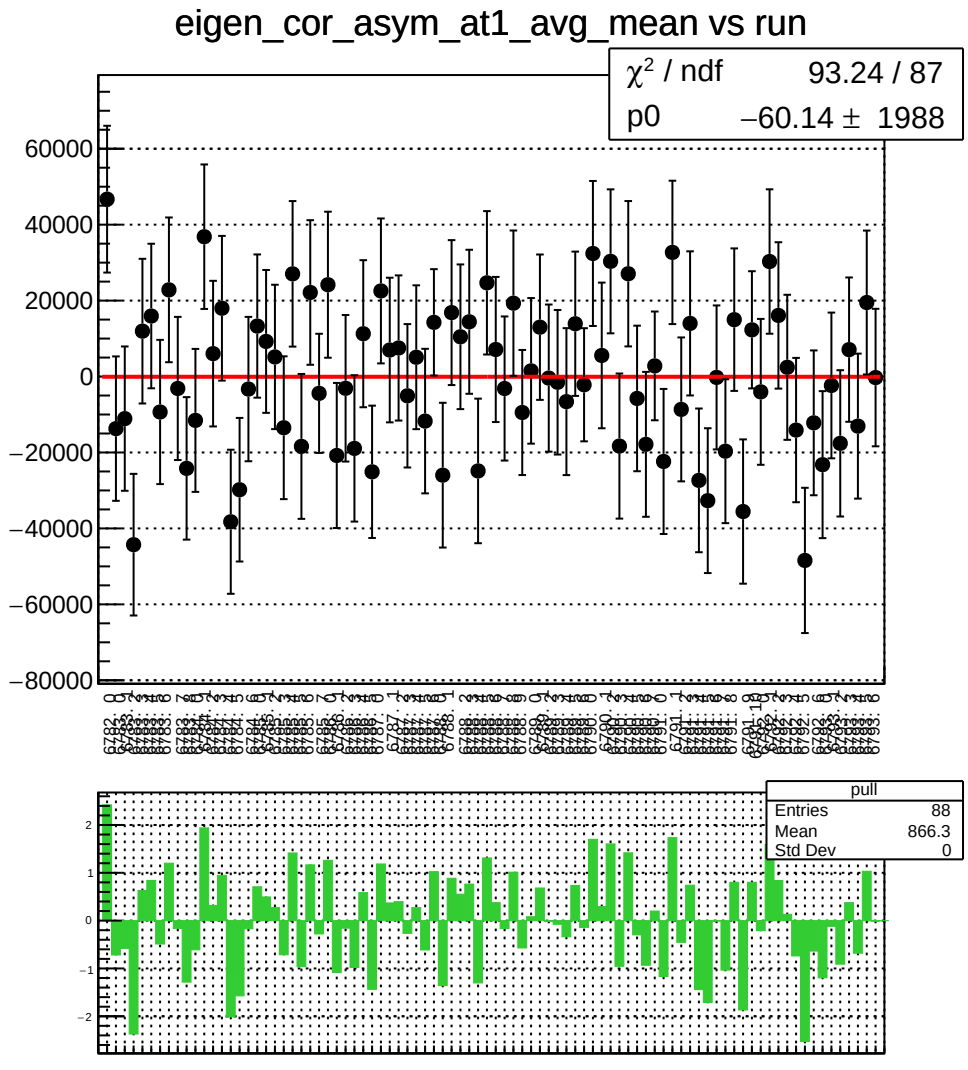

pull1D
Entries 88
Mean −0.002458
Std Dev 1.029

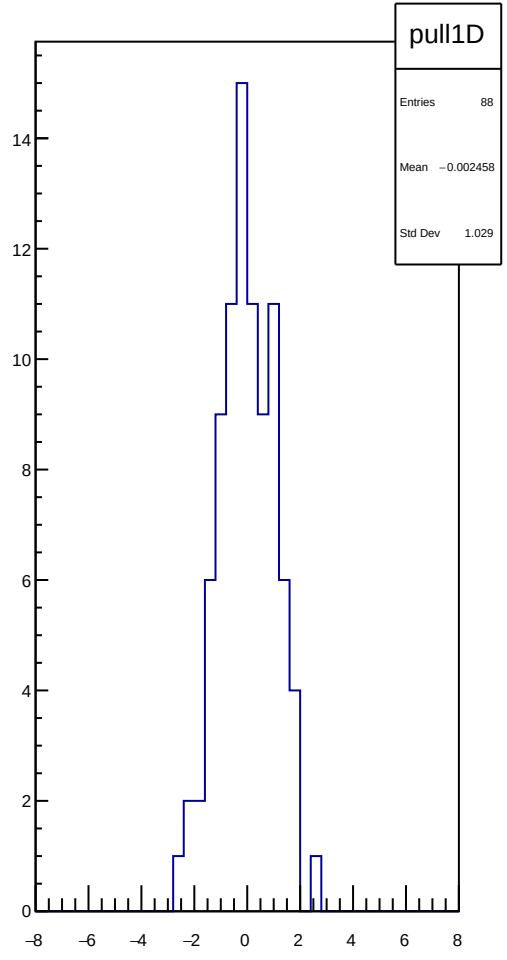

cor_asym_at1_avg_rms vs run
χ² / ndf 91.7 / 87
p0 1808 ± 1.405
1860
1840
1820
1800
1780
1760

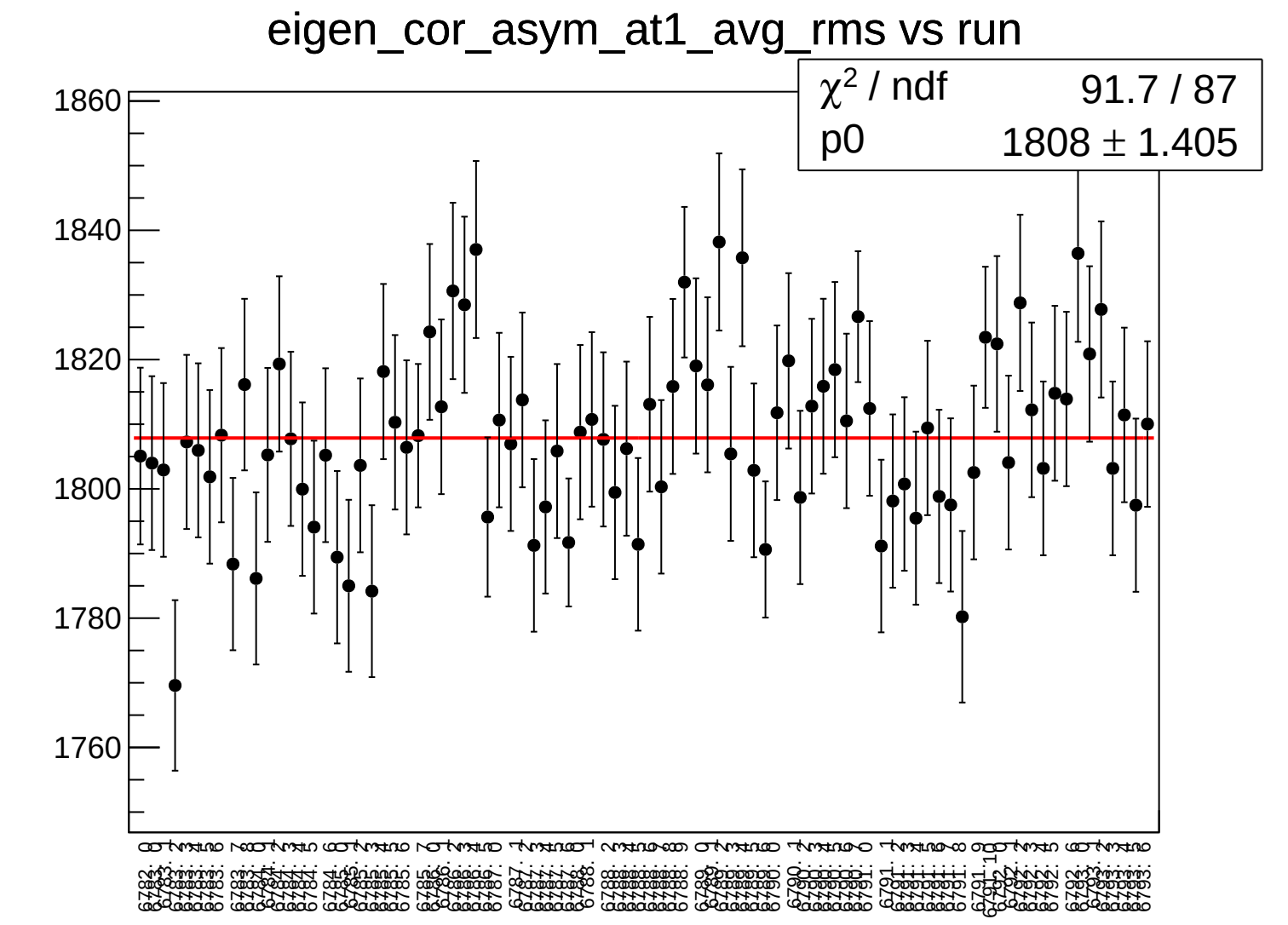

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 103 / 87
p0 −597.1 ± 452.4
pull
Entries 88
Mean −29.39
Std Dev 0

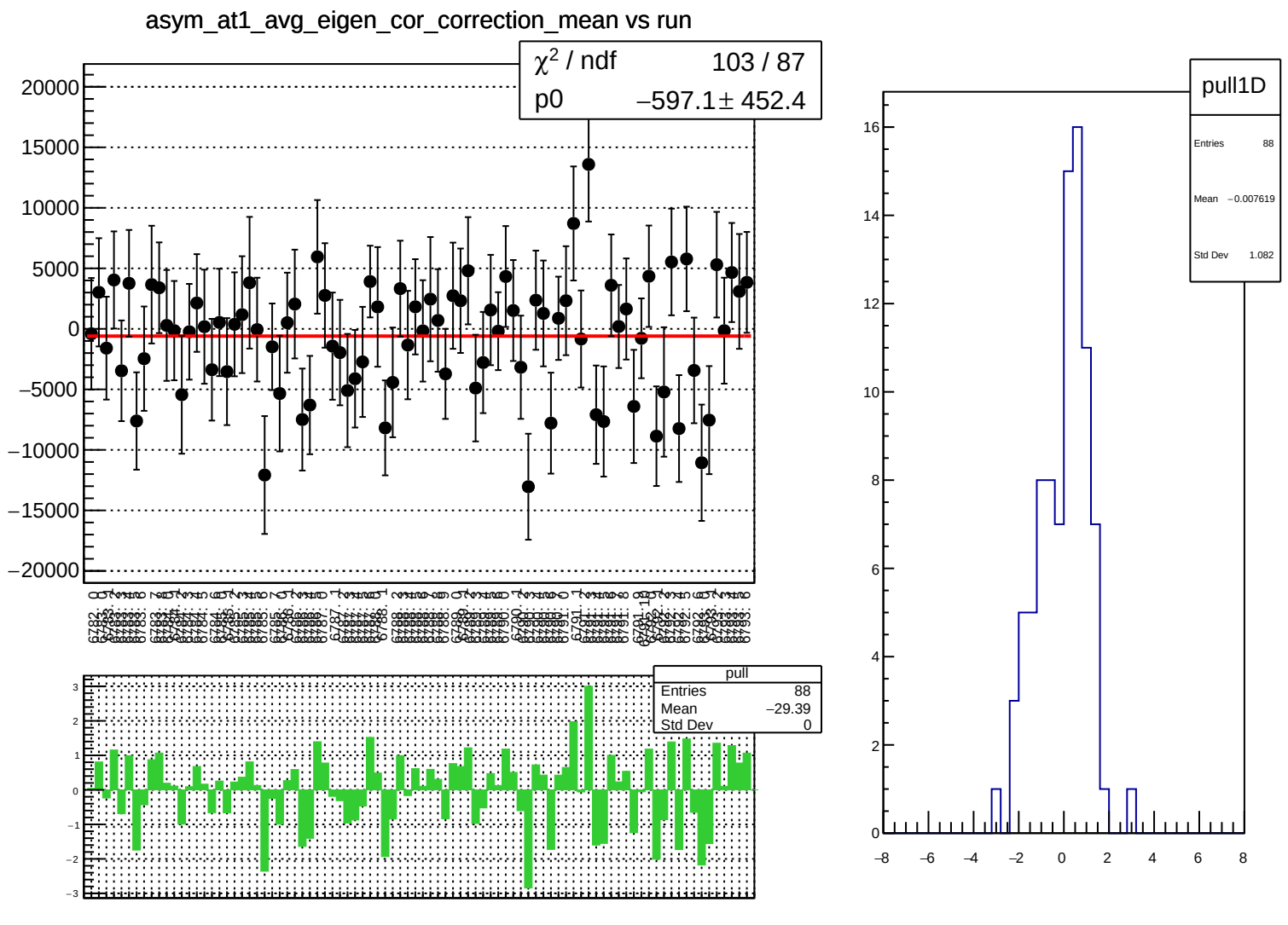

pull1D
Entries 88
Mean −0.007619
Std Dev 1.082

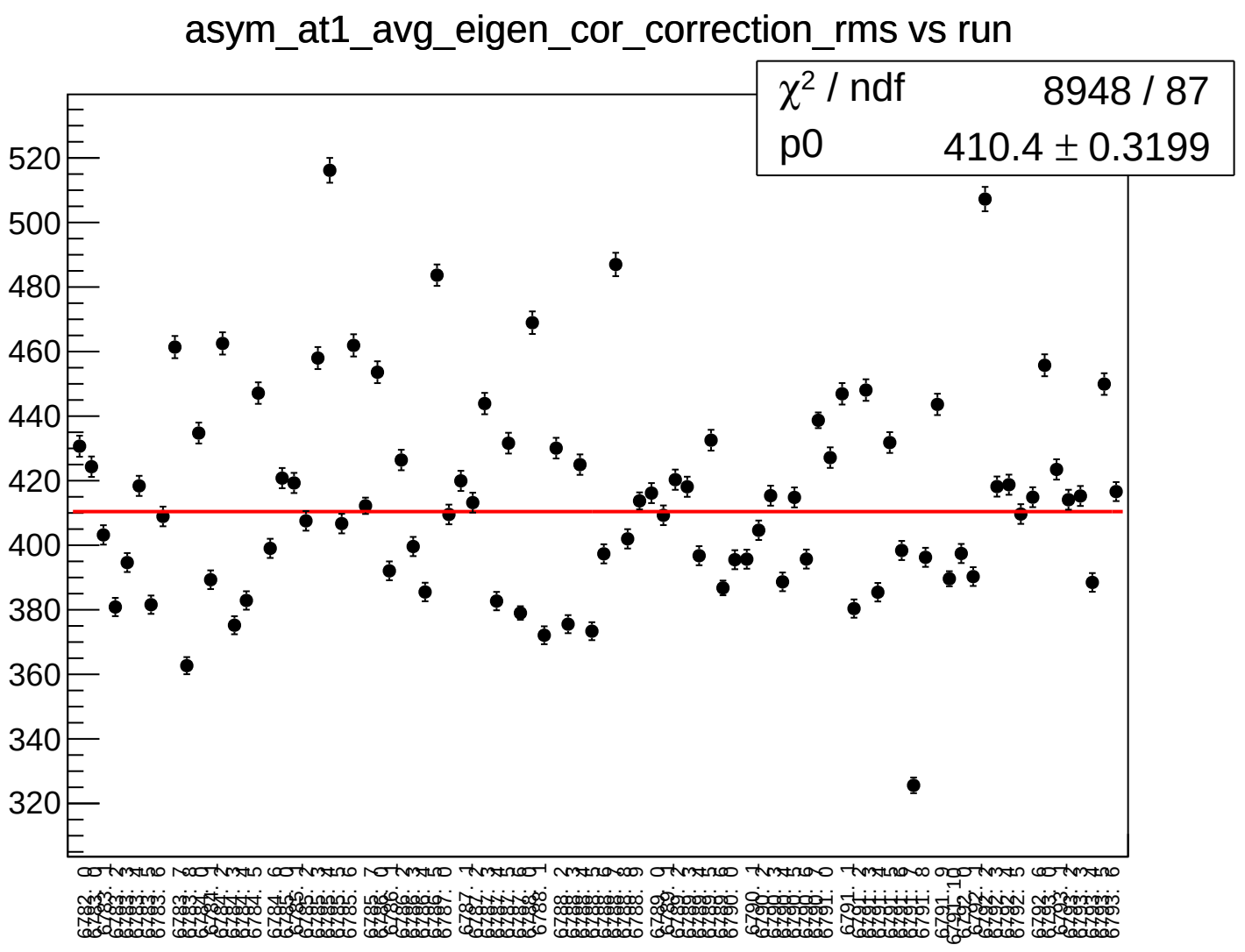

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 8948 / 87
p0 410.4 ± 0.3199
520
500
480
460
440
420
400
380
360
340
320

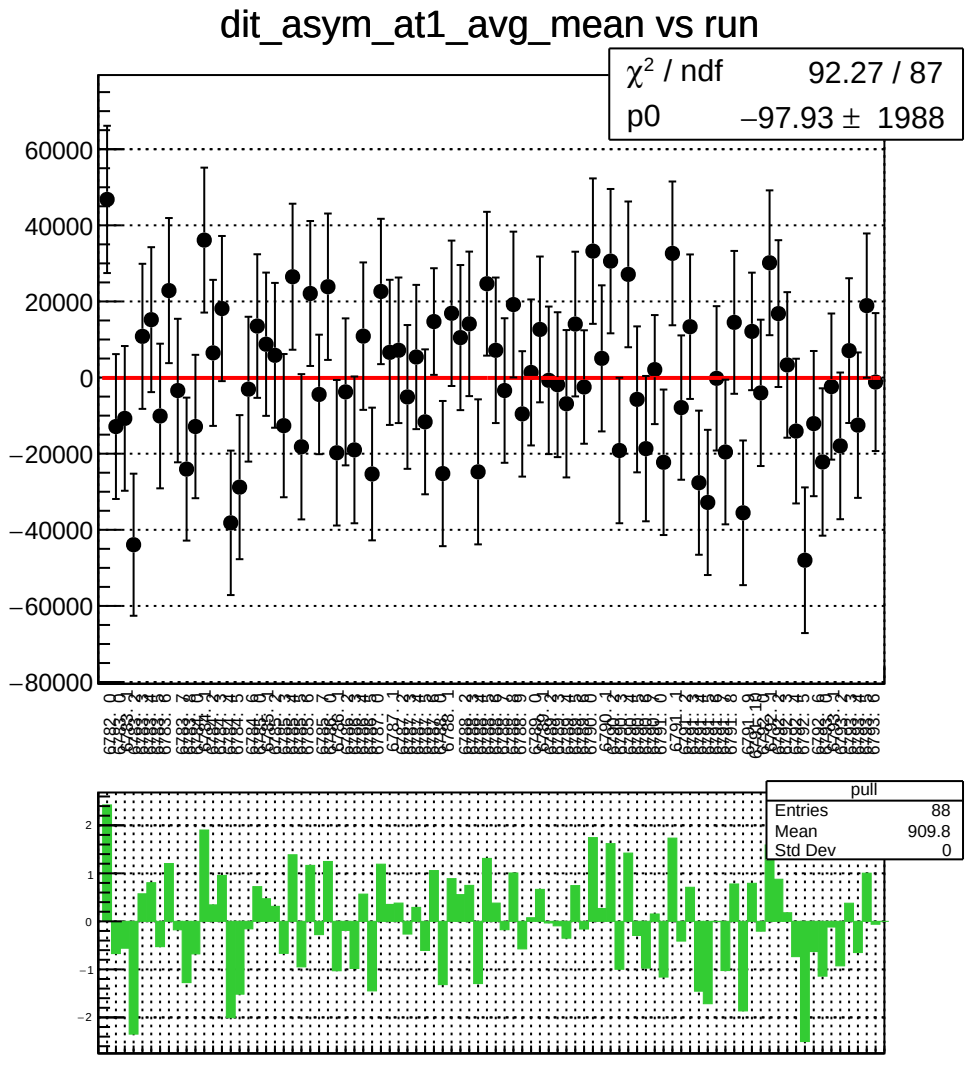

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 93.24 / 87
p0 −60.14 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 866.3
Std Dev 0
2
1
0
−1
−2

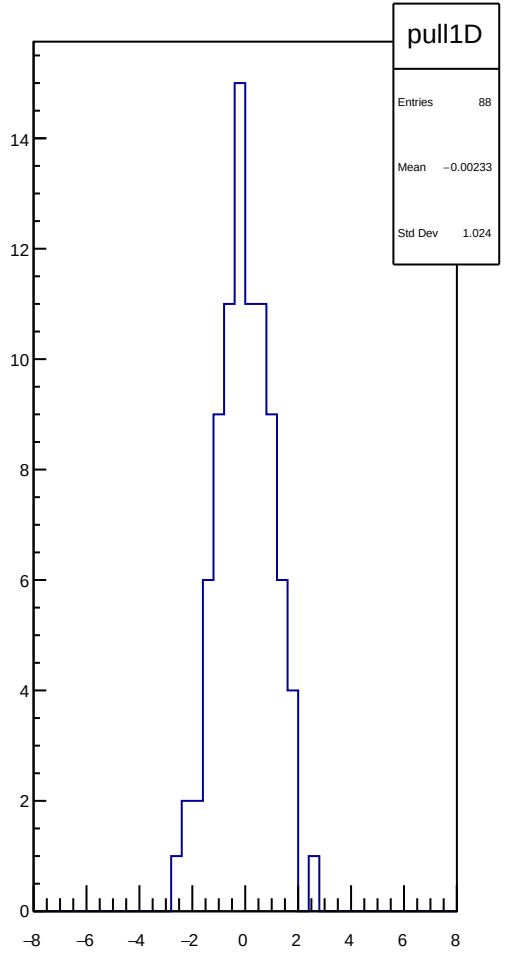

pull1D
Entries 88
Mean −0.002458
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

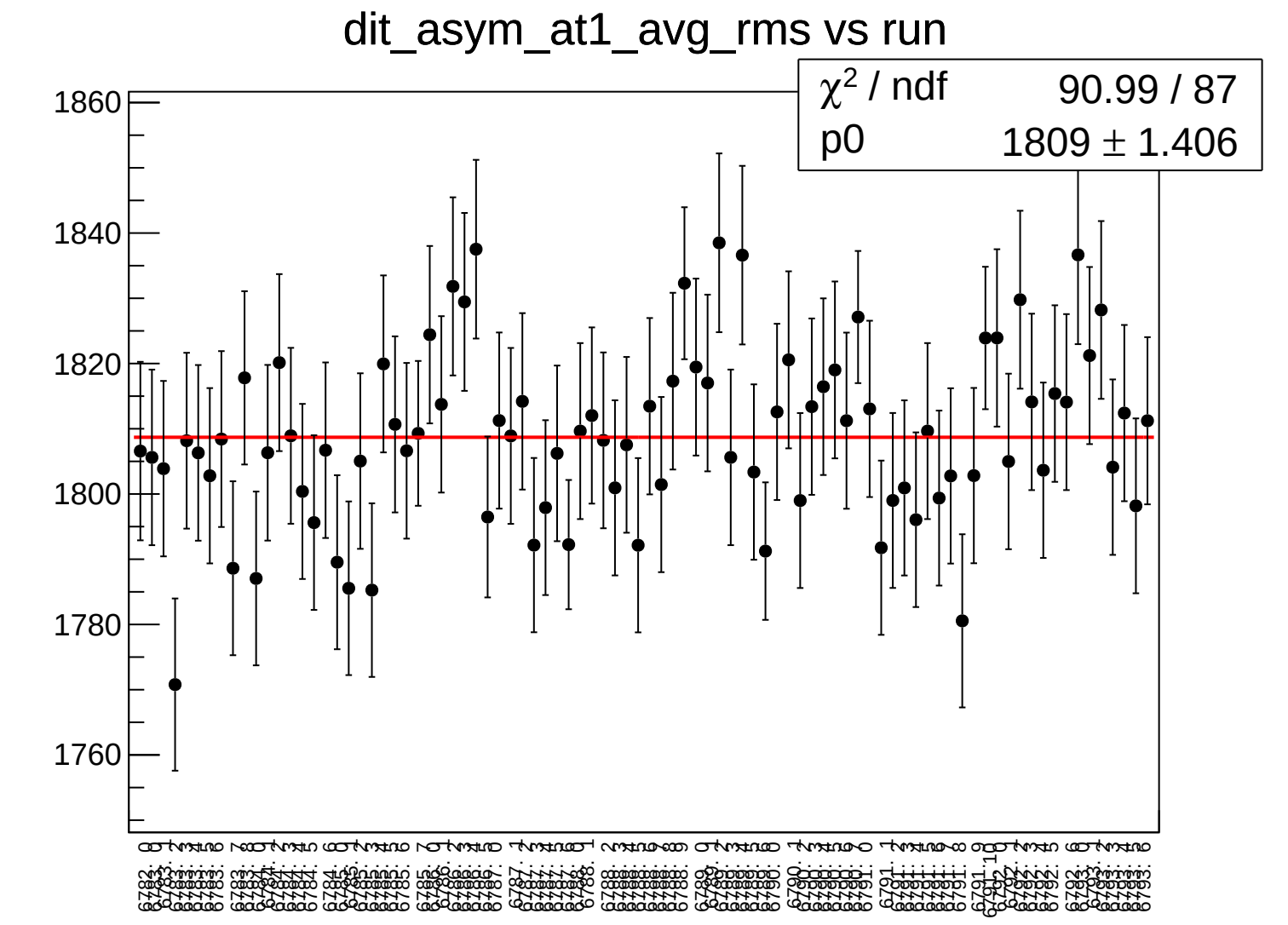

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 91.7 / 87
p0 1808 ± 1.405
1860
1840
1820
1800
1780
1760

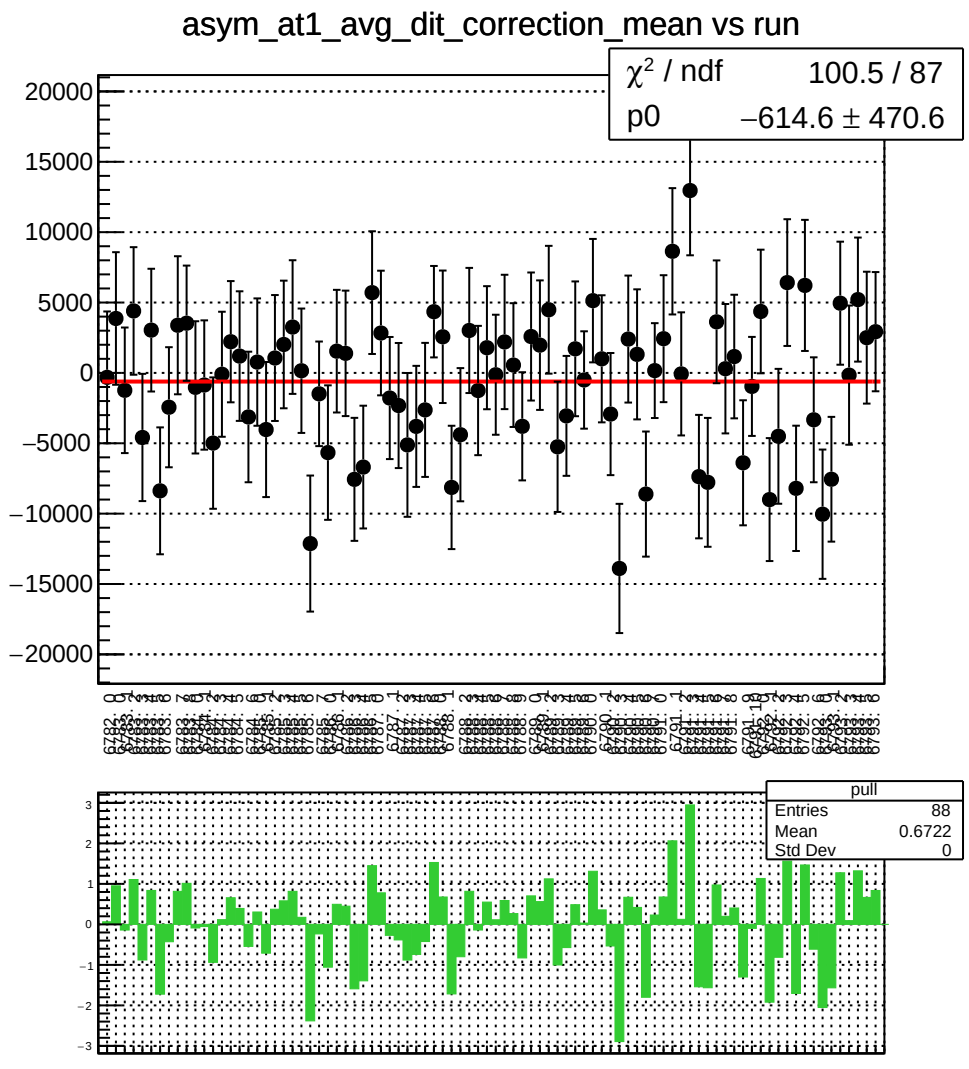

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 103 / 87
p0 −597.1 ± 452.4
pull
Entries 88
Mean −29.39
Std Dev 0
pull1D
Entries 88
Mean −0.007619
Std Dev 1.082

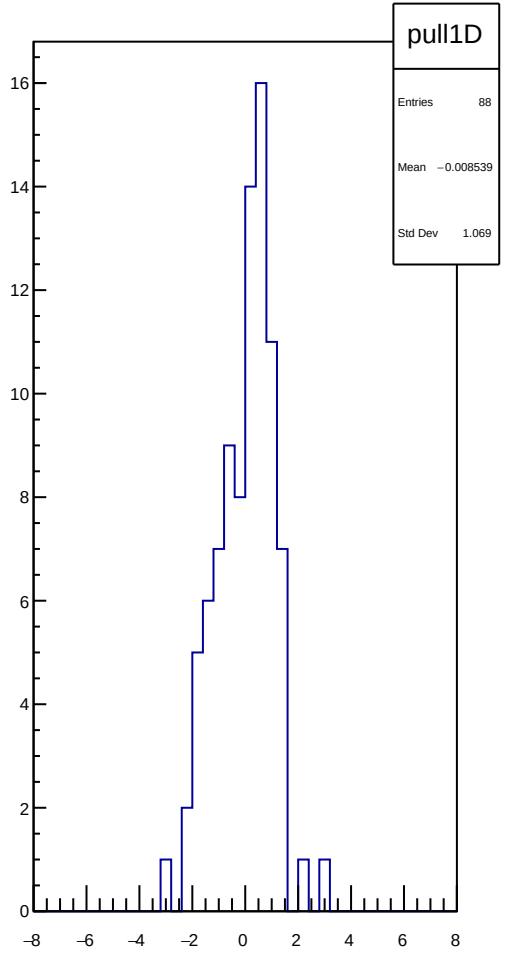

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8948 / 87
p0 410.4 ± 0.3199
520
500
480
460
440
420
400
380
360
340
320

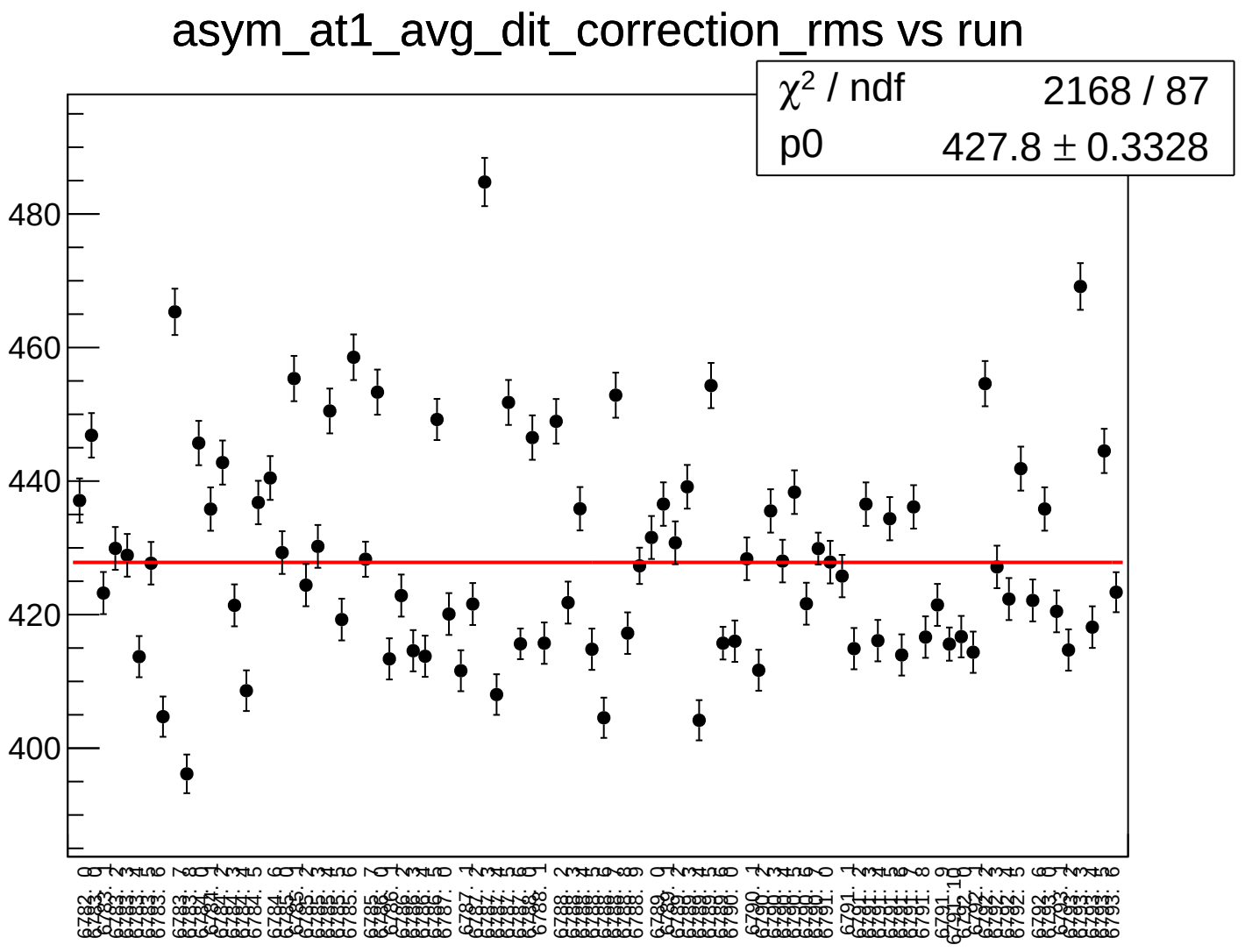

dit_asym_at1_avg_mean vs run
χ² / ndf 92.27 / 87
p0 −97.93 ± 1988
pull
Entries 88
Mean 909.8
Std Dev 0

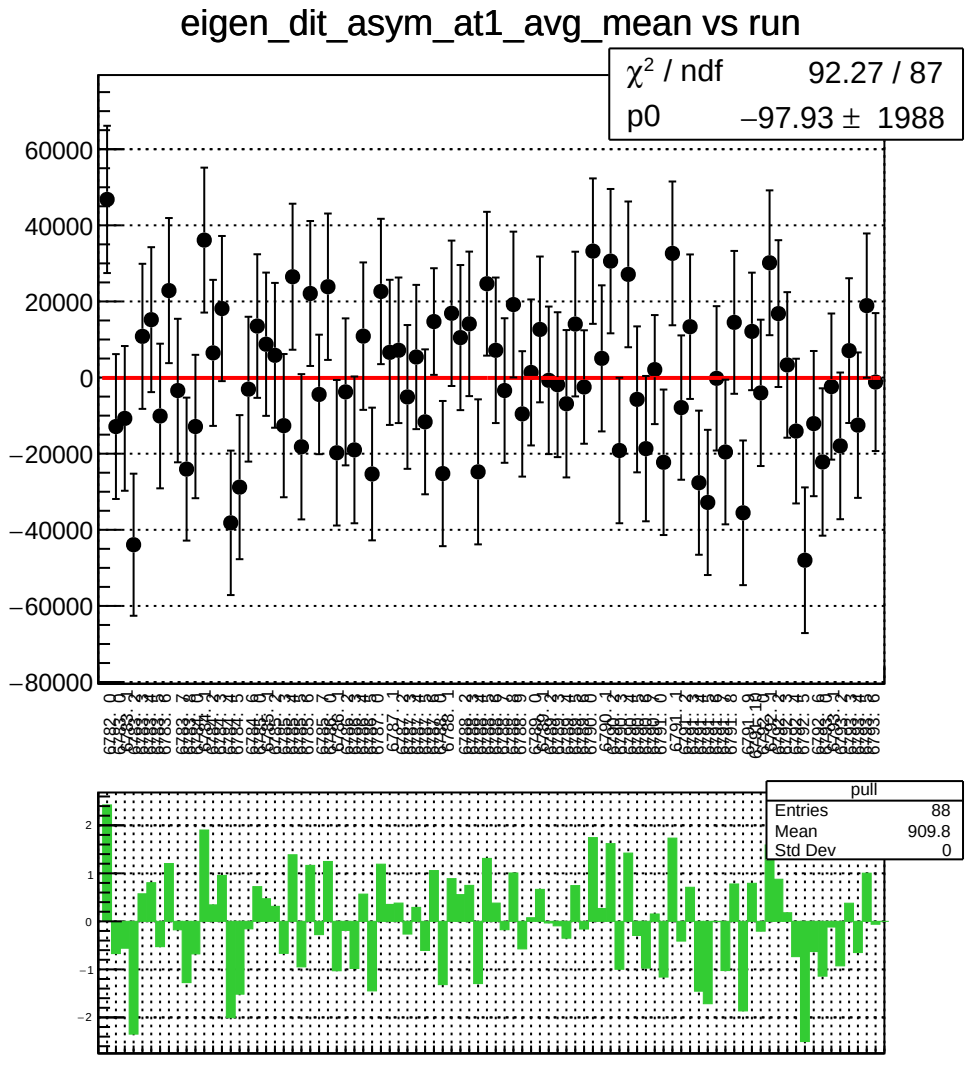

pull1D
Entries 88
Mean −0.00233
Std Dev 1.024

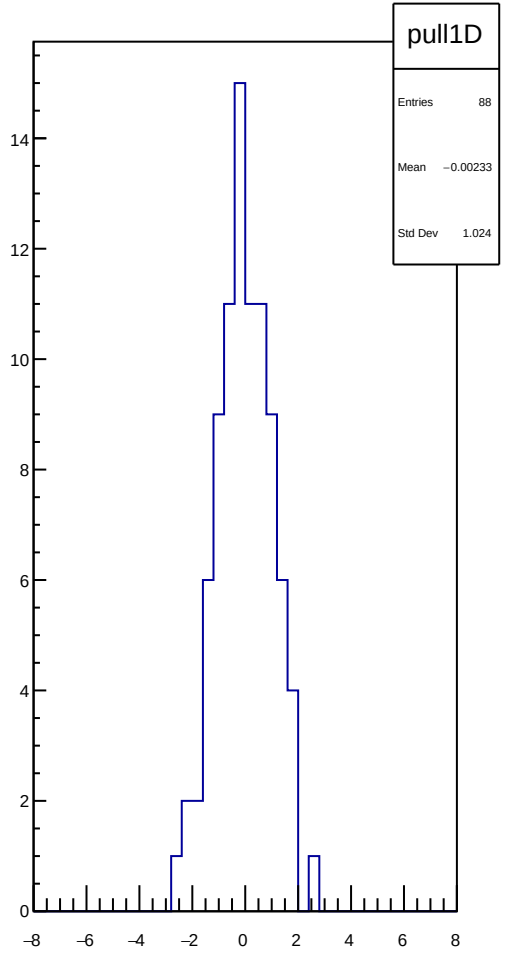

dit_asym_at1_avg_rms vs run
χ² / ndf 90.99 / 87
p0 1809 ± 1.406
1860
1840
1820
1800
1780
1760

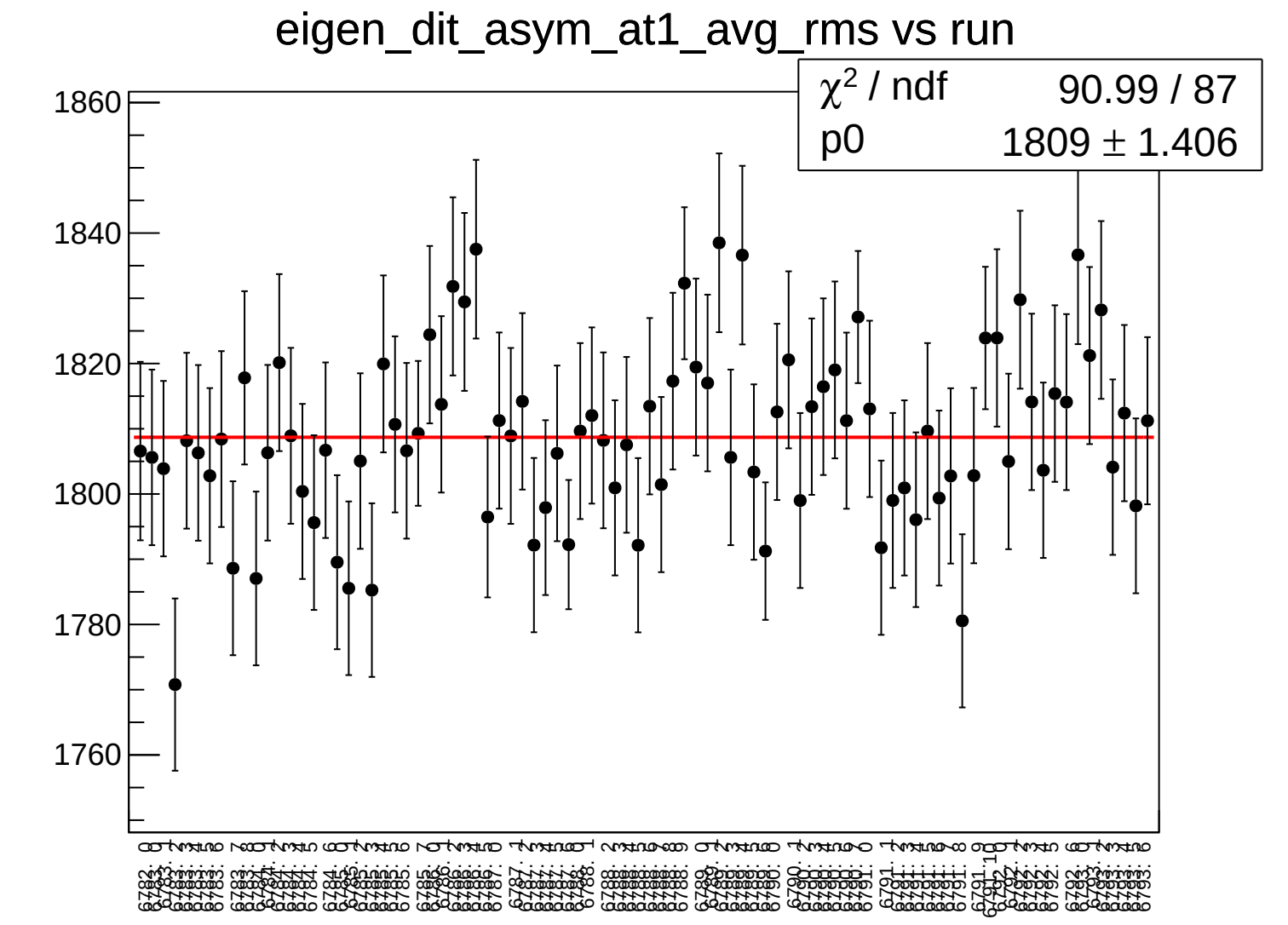

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 100.5 / 87
p0 −614.6 ± 470.6
pull
Entries 88
Mean 0.6722
Std Dev 0

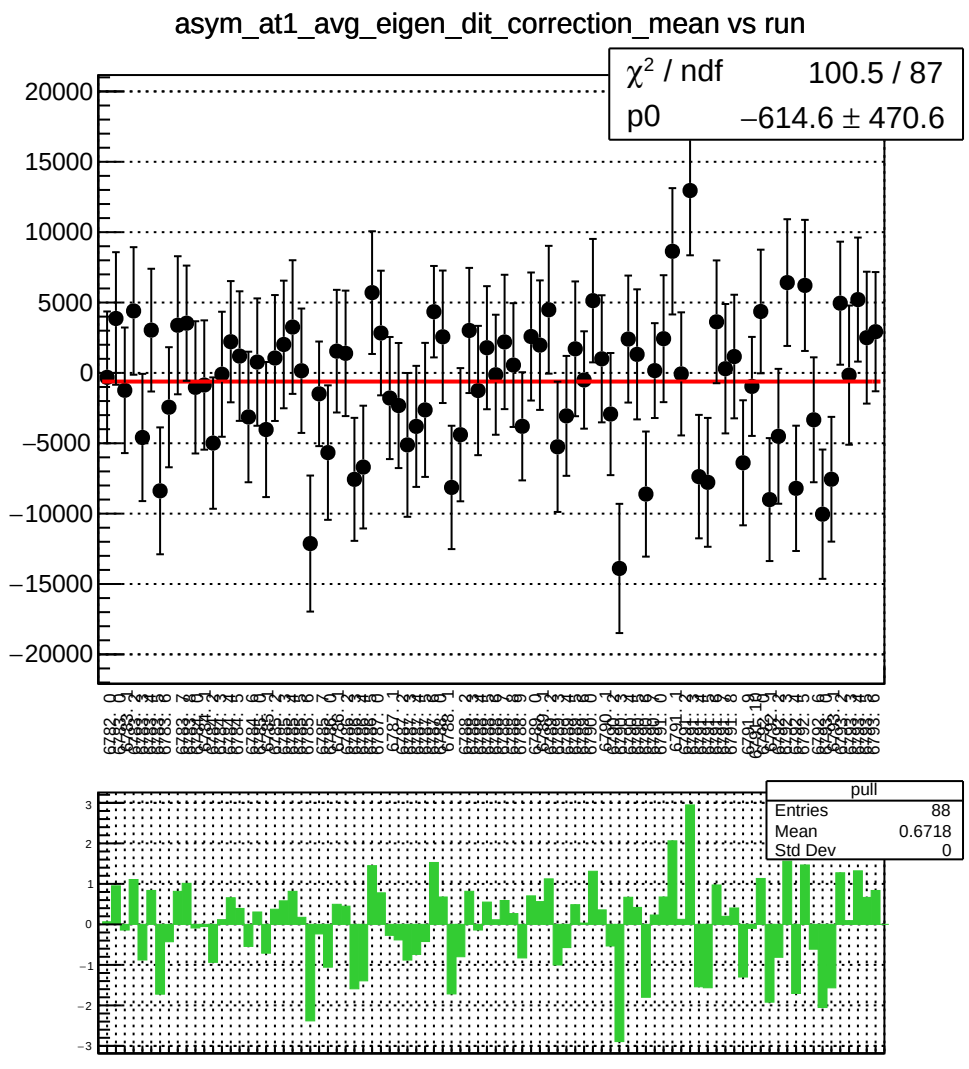

pull1D
Entries 88
Mean −0.008539
Std Dev 1.069

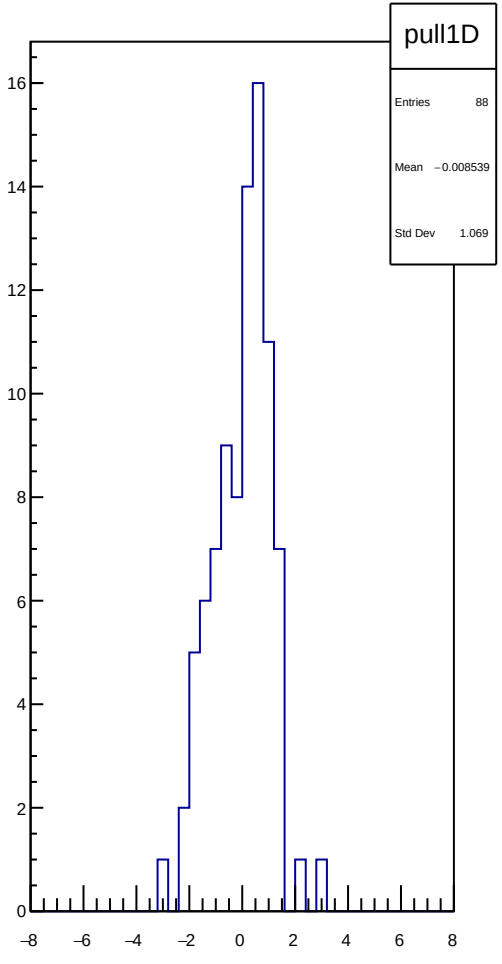

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 2168 / 87
p0 427.8 ± 0.3328
480
460
440
420
400

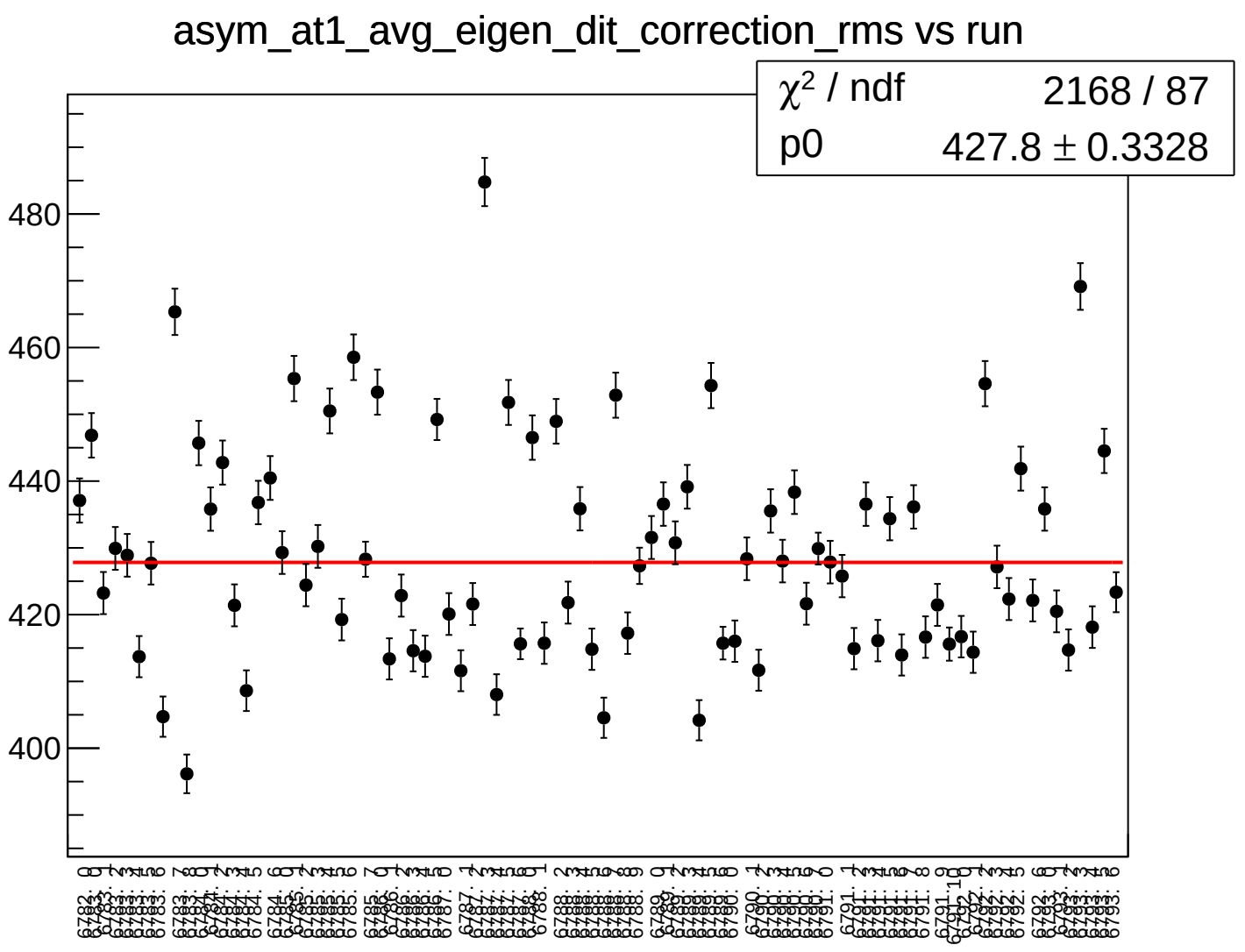

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 92.27 / 87
p0 −97.93 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 909.8
Std Dev 0
2
1
0
−1
−2

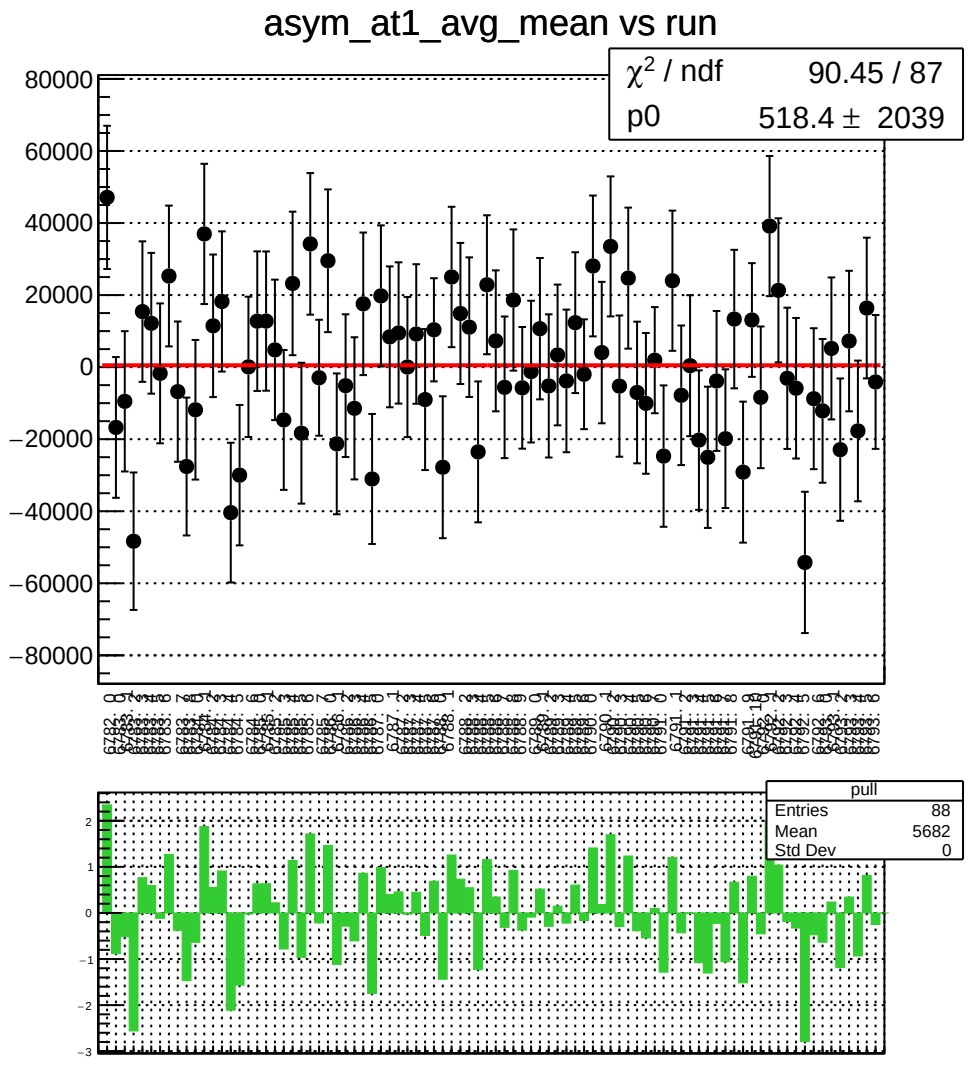

pull1D
Entries 88
Mean −0.00233
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

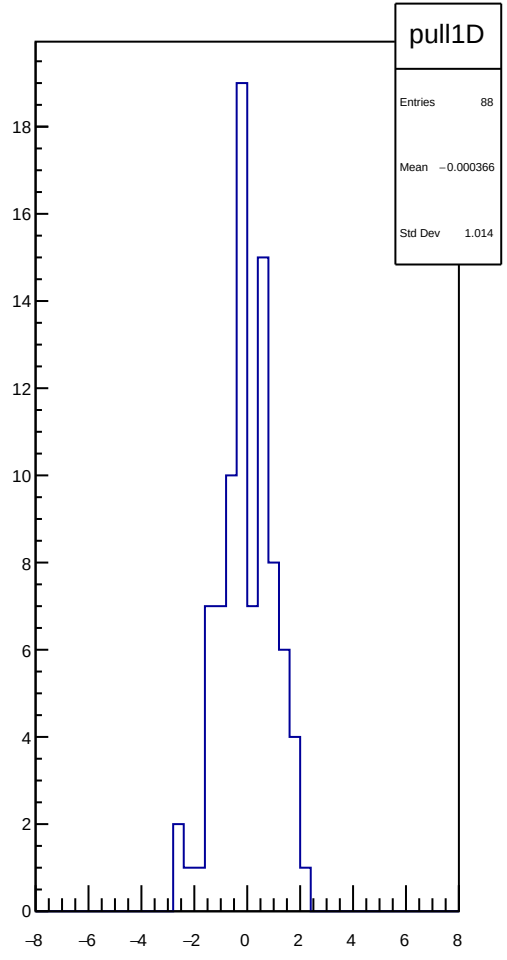

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 90.99 / 87
p0 1809 ± 1.406
1860
1840
1820
1800
1780
1760

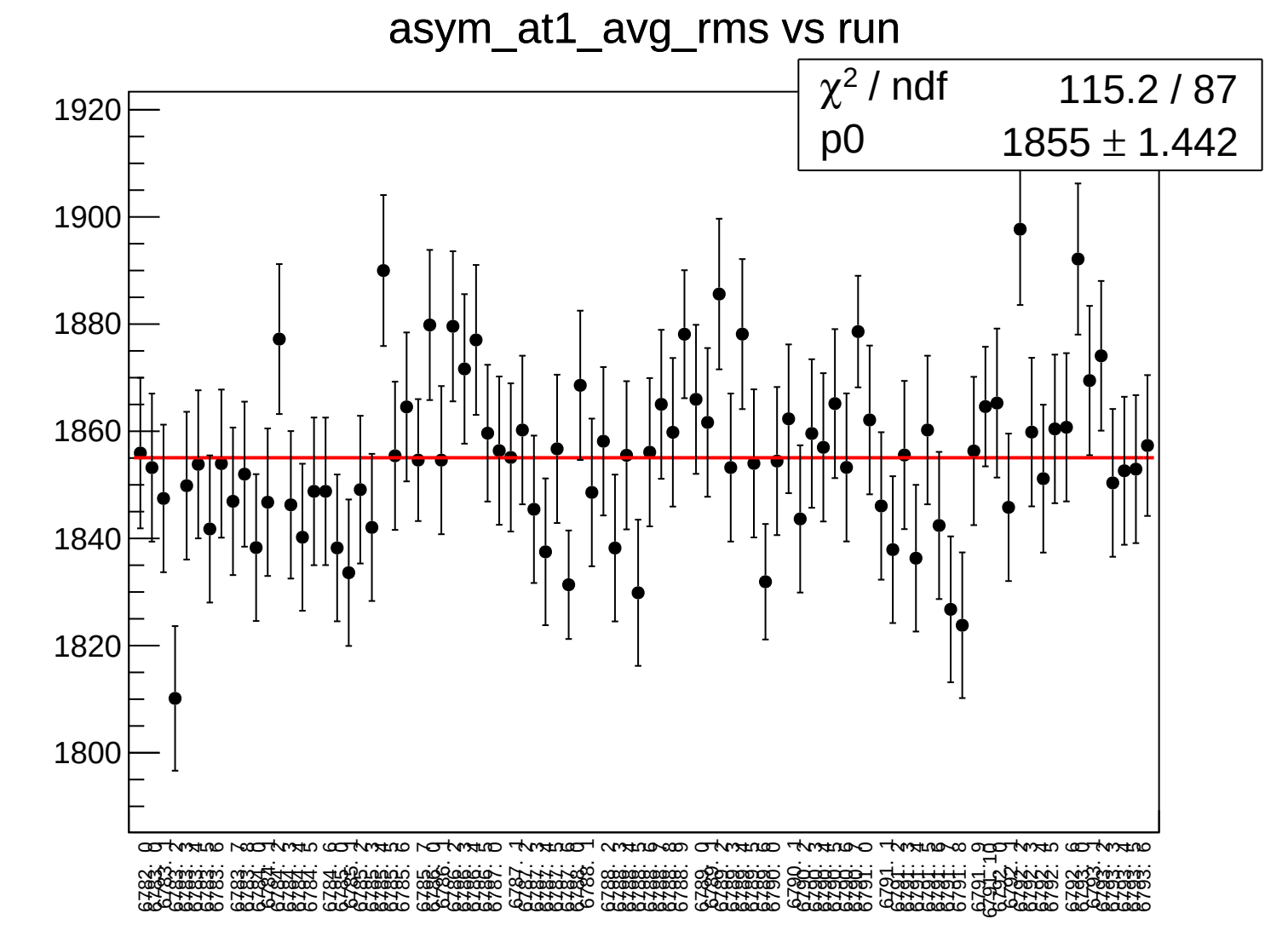

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.5 / 87
p0 −614.6 ± 470.6
pull
Entries 88
Mean 0.6718
Std Dev 0

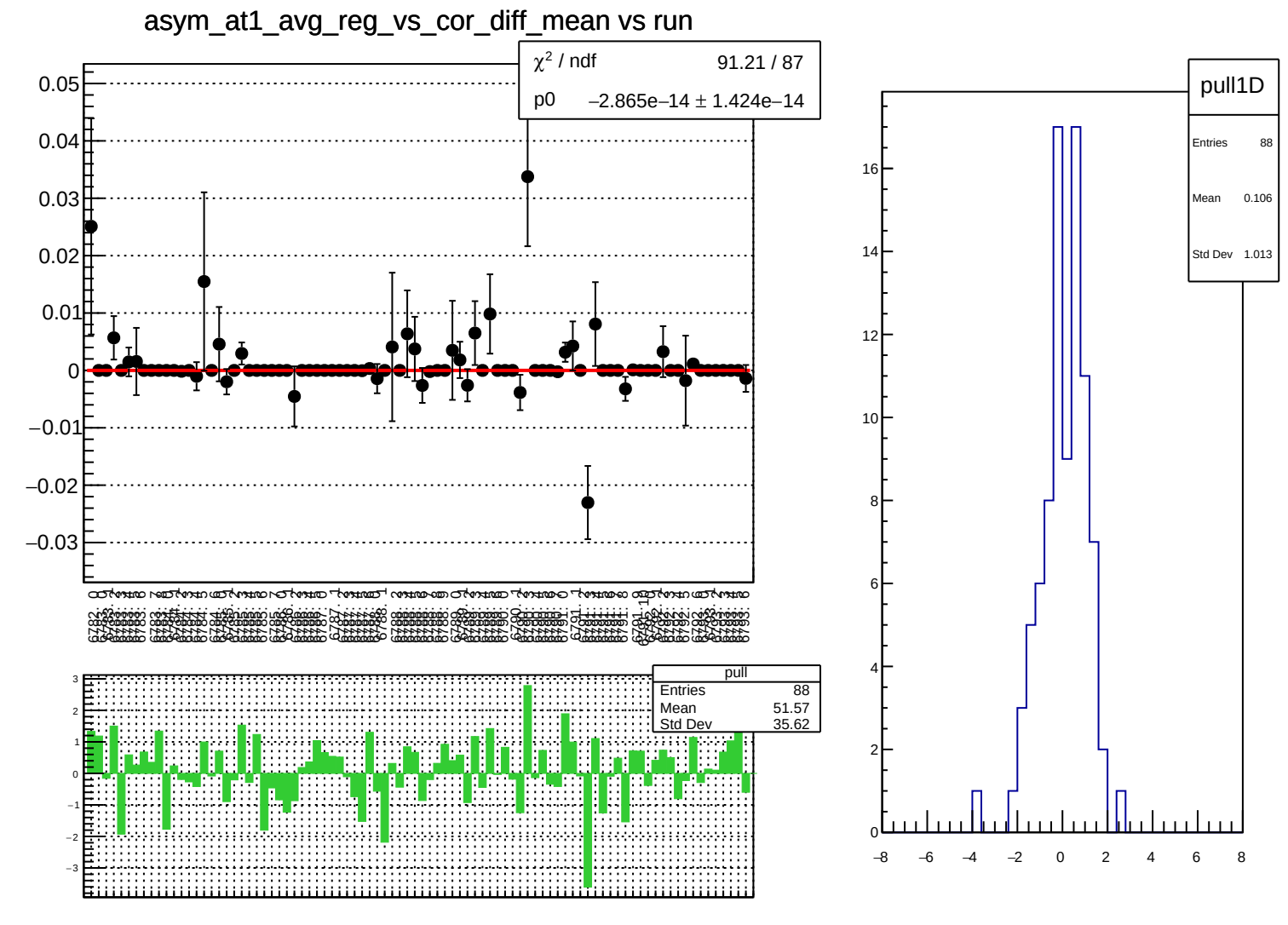

pull1D
Entries 88
Mean −0.008539
Std Dev 1.069

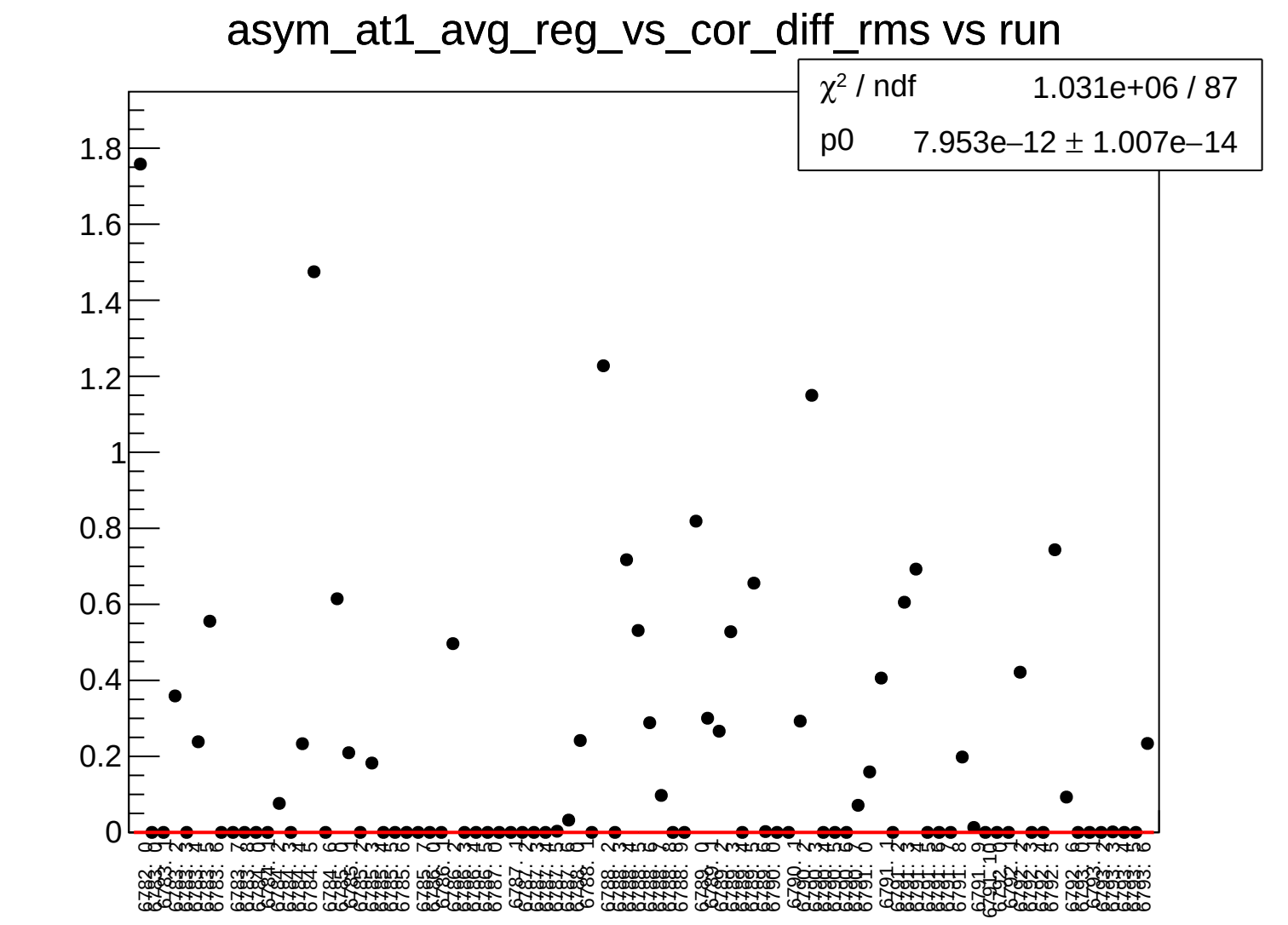

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2168 / 87
p0 427.8 ± 0.3328
480
460
440
420
400

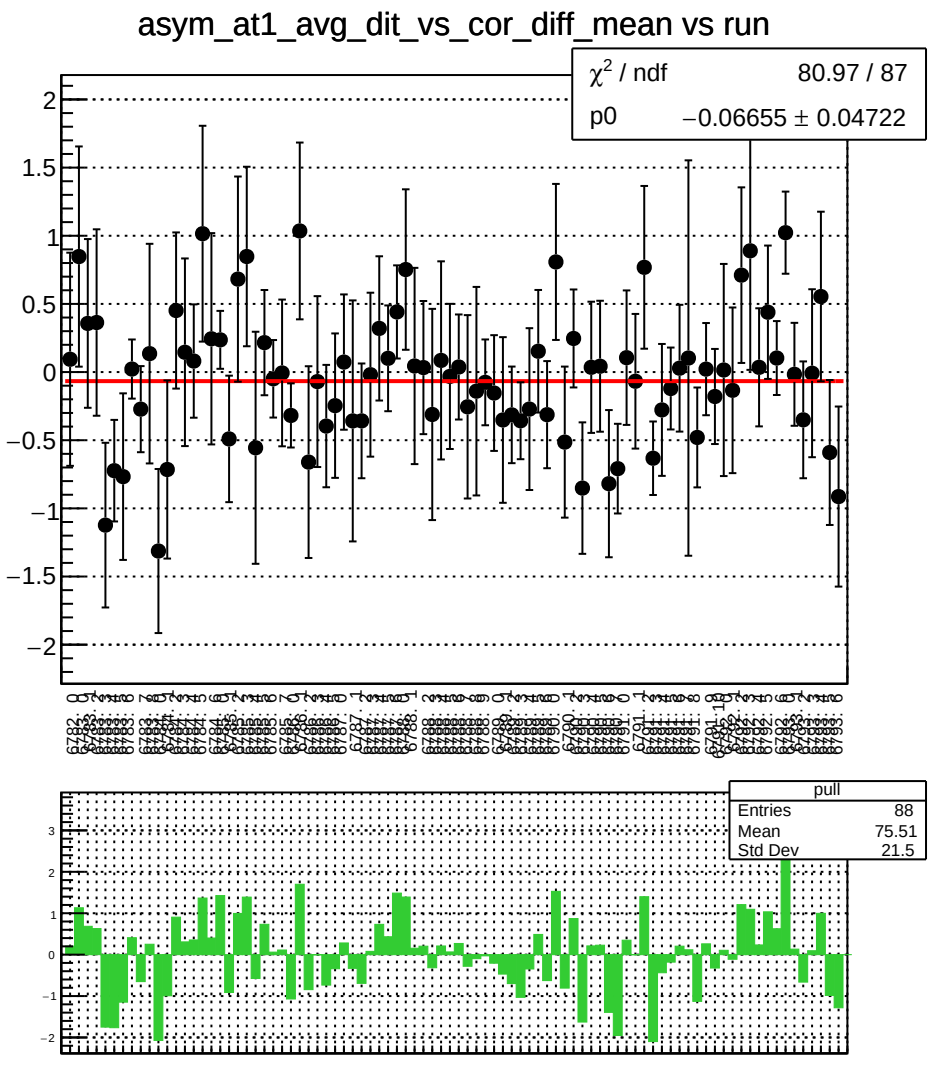

asym_at1_avg_mean vs run
χ² / ndf 90.45 / 87
p0 518.4 ± 2039
pull
Entries 88
Mean 5682
Std Dev 0

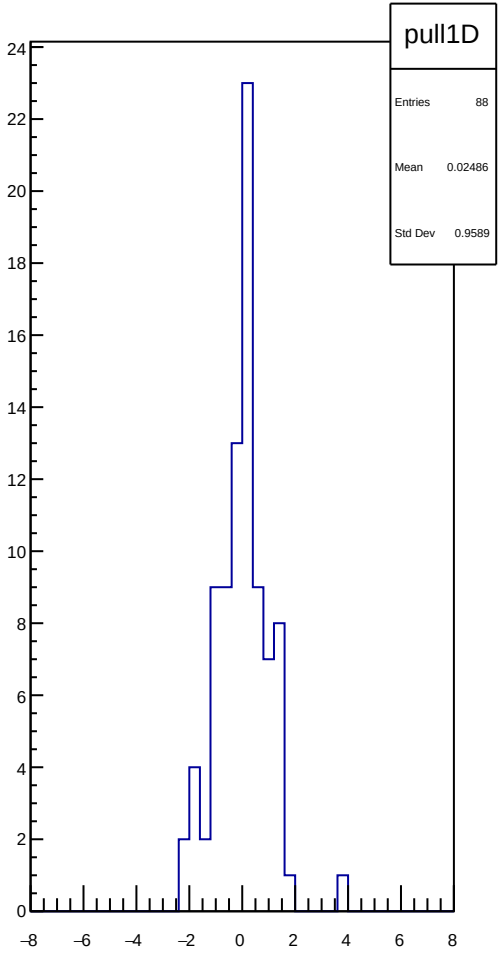

pull1D
Entries 88
Mean −0.000366
Std Dev 1.014

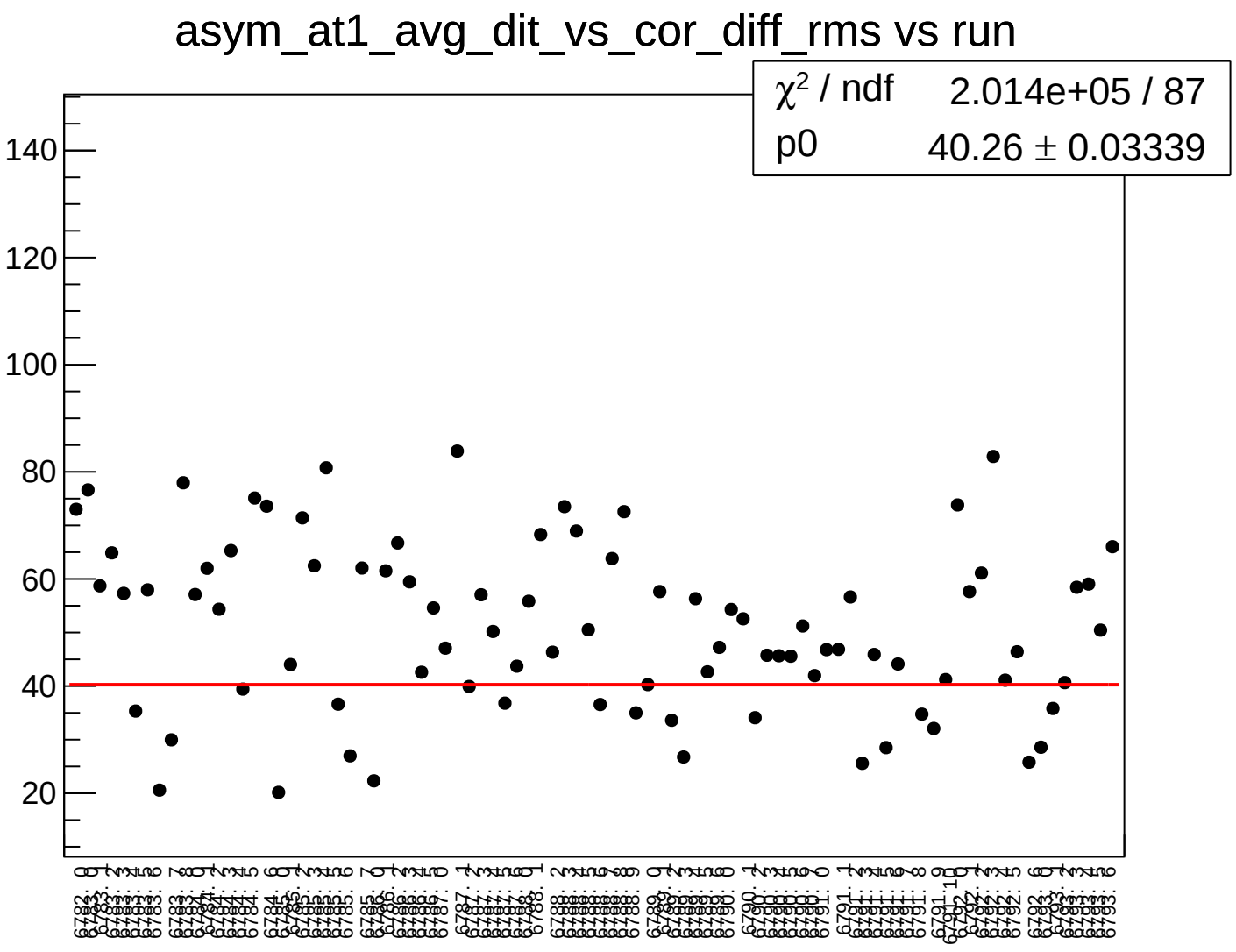

asym_at1_avg_rms vs run
χ² / ndf 115.2 / 87
p0 1855 ± 1.442
1920
1900
1880
1860
1840
1820
1800

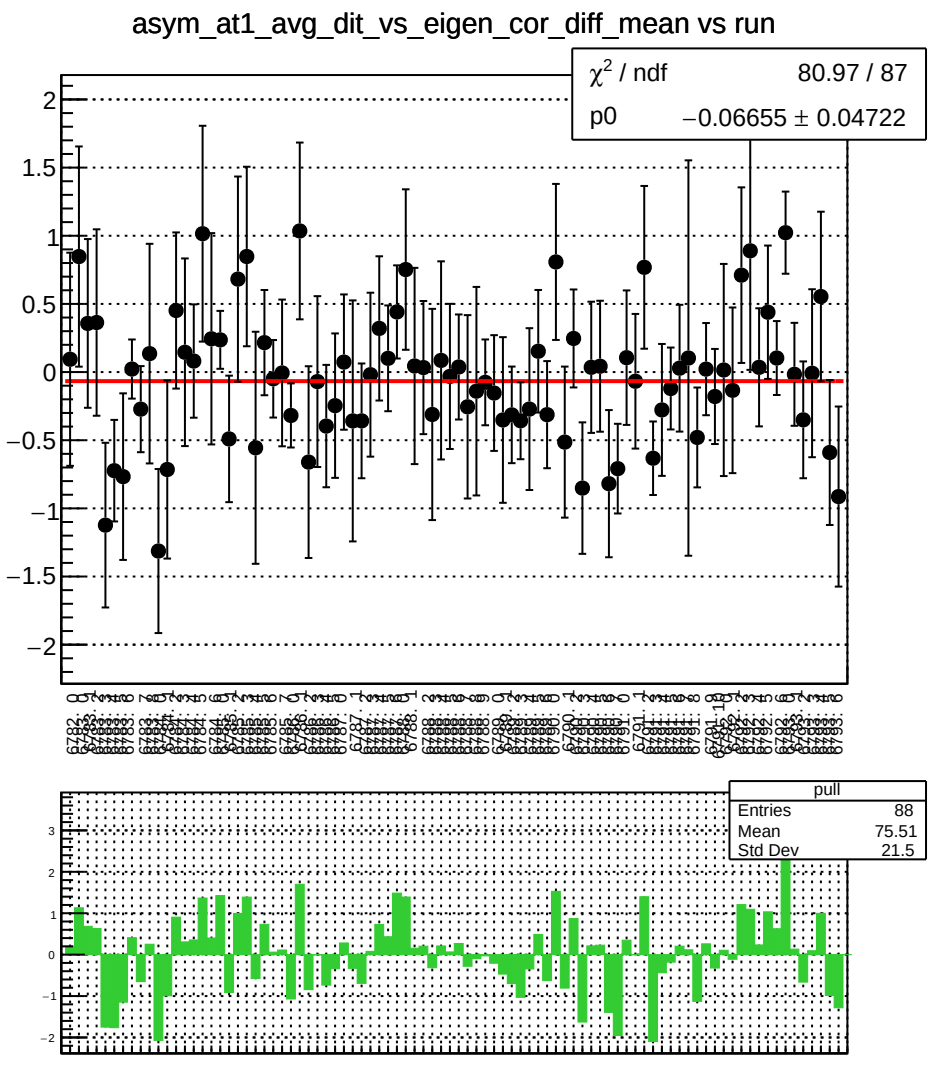

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.21 / 87
p0 −2.865e−14 ± 1.424e−14
pull
Entries 88
Mean 51.57
Std Dev 35.62
pull1D
Entries 88
Mean 0.106
Std Dev 1.013

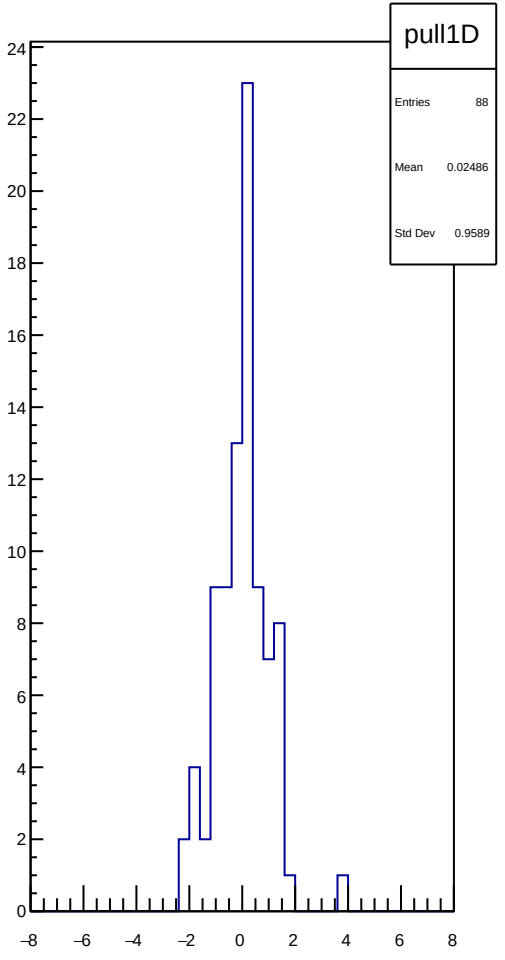

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 87
p0 7.953e−12 ± 1.007e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

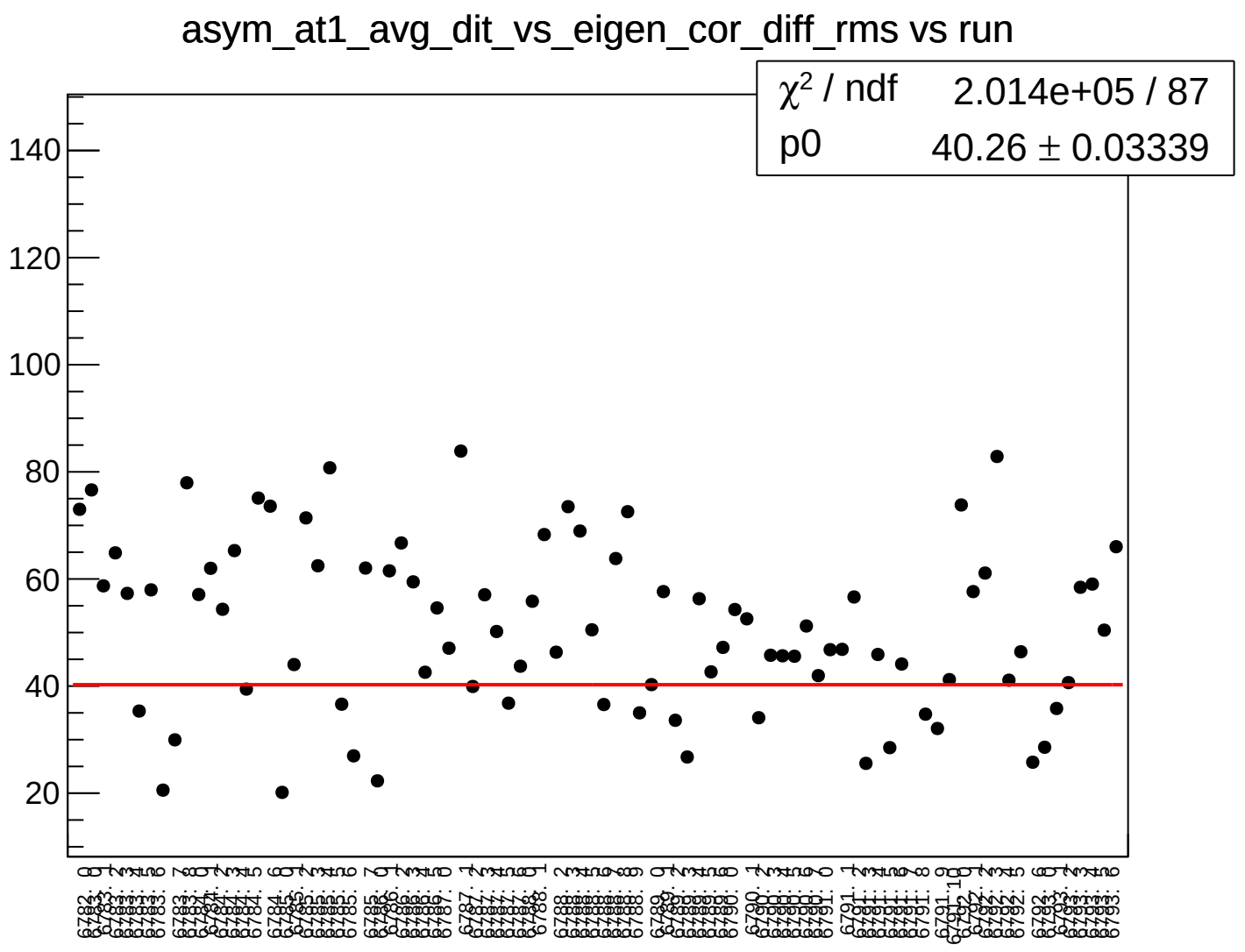

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.97 / 87
p0 −0.06655 ± 0.04722
pull
Entries 88
Mean 75.51
Std Dev 21.5

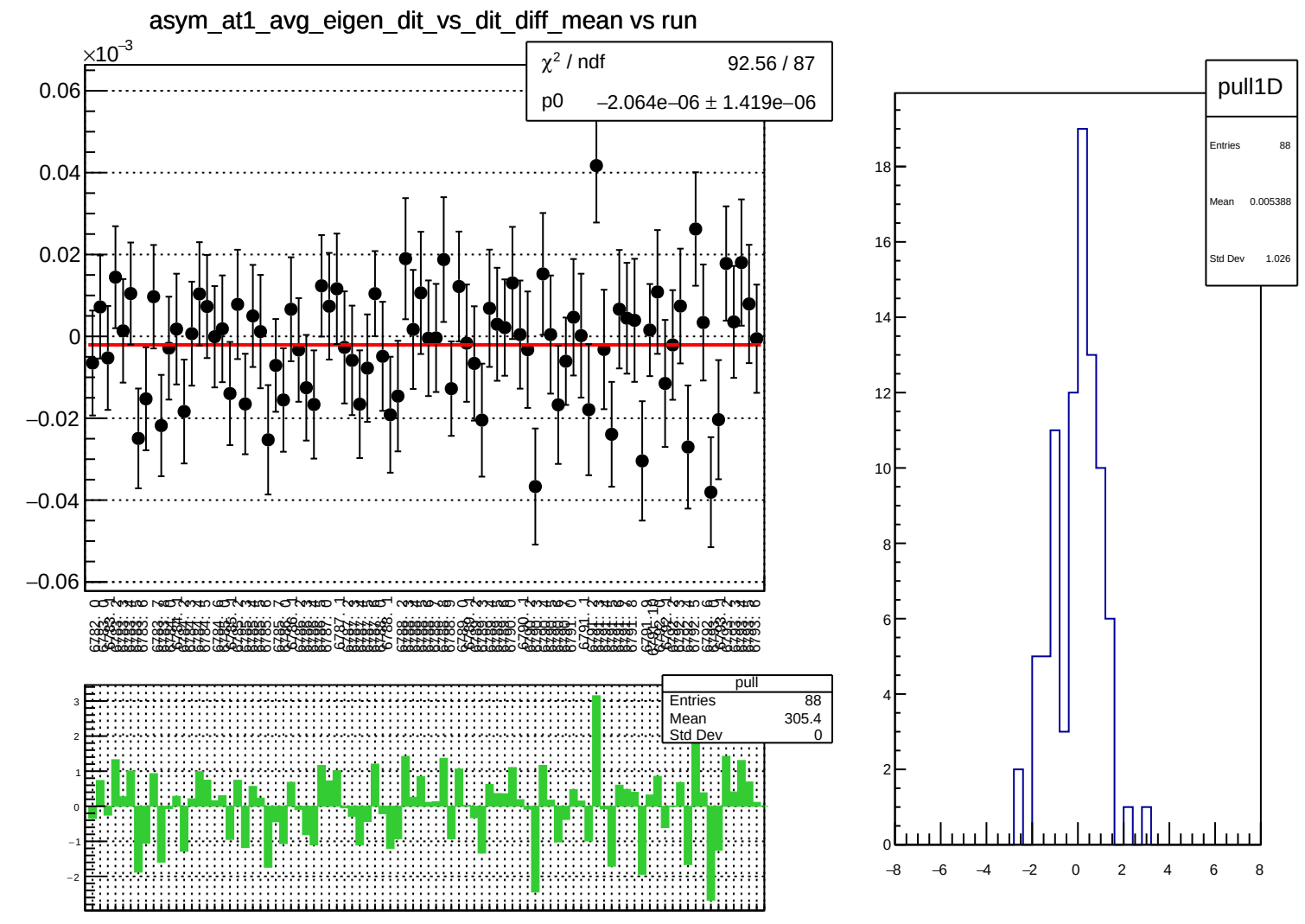

pull1D
Entries 88
Mean 0.02486
Std Dev 0.9589

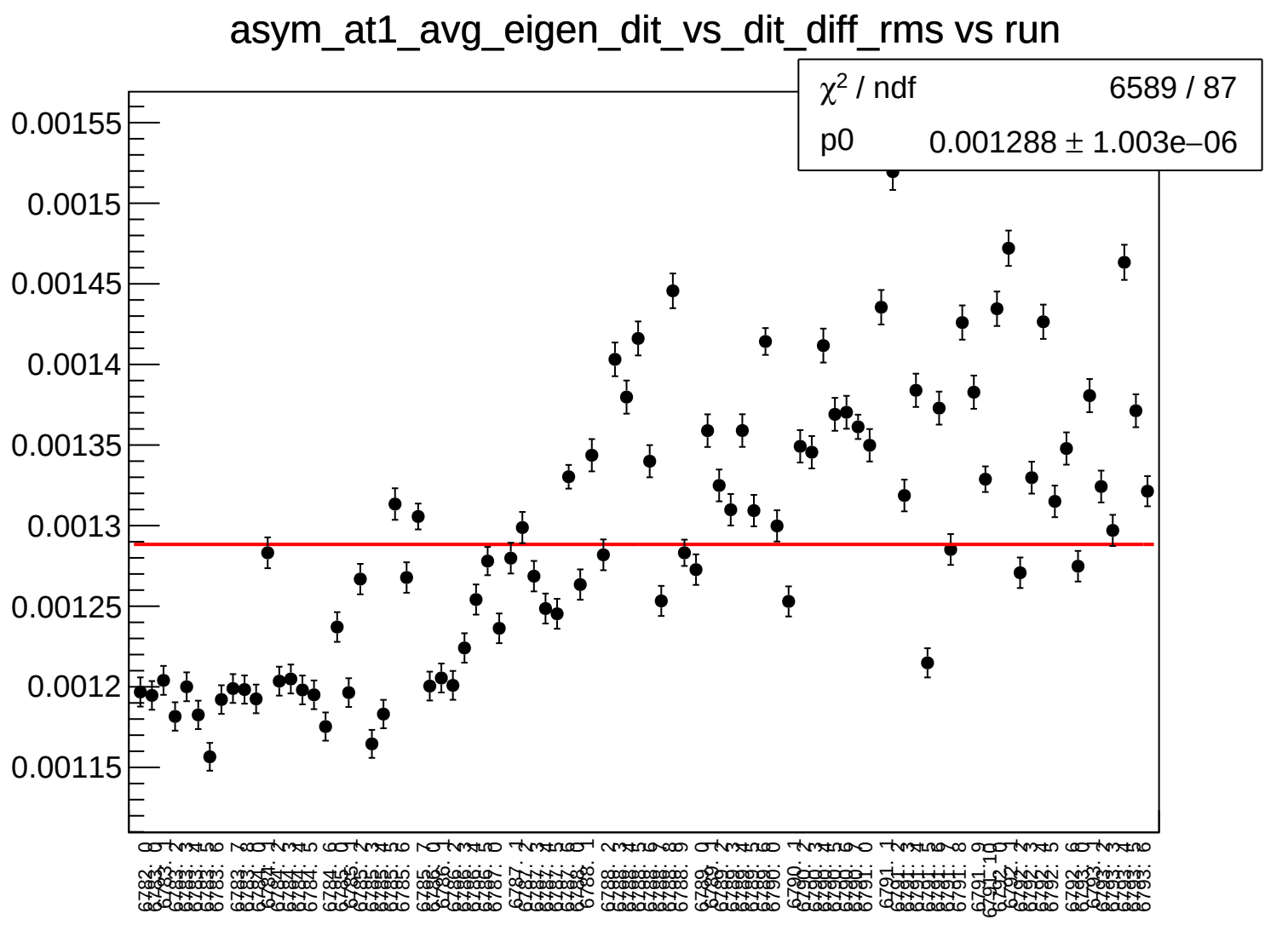

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.014e+05 / 87
p0 40.26 ± 0.03339
140
120
100
80
60
40
20

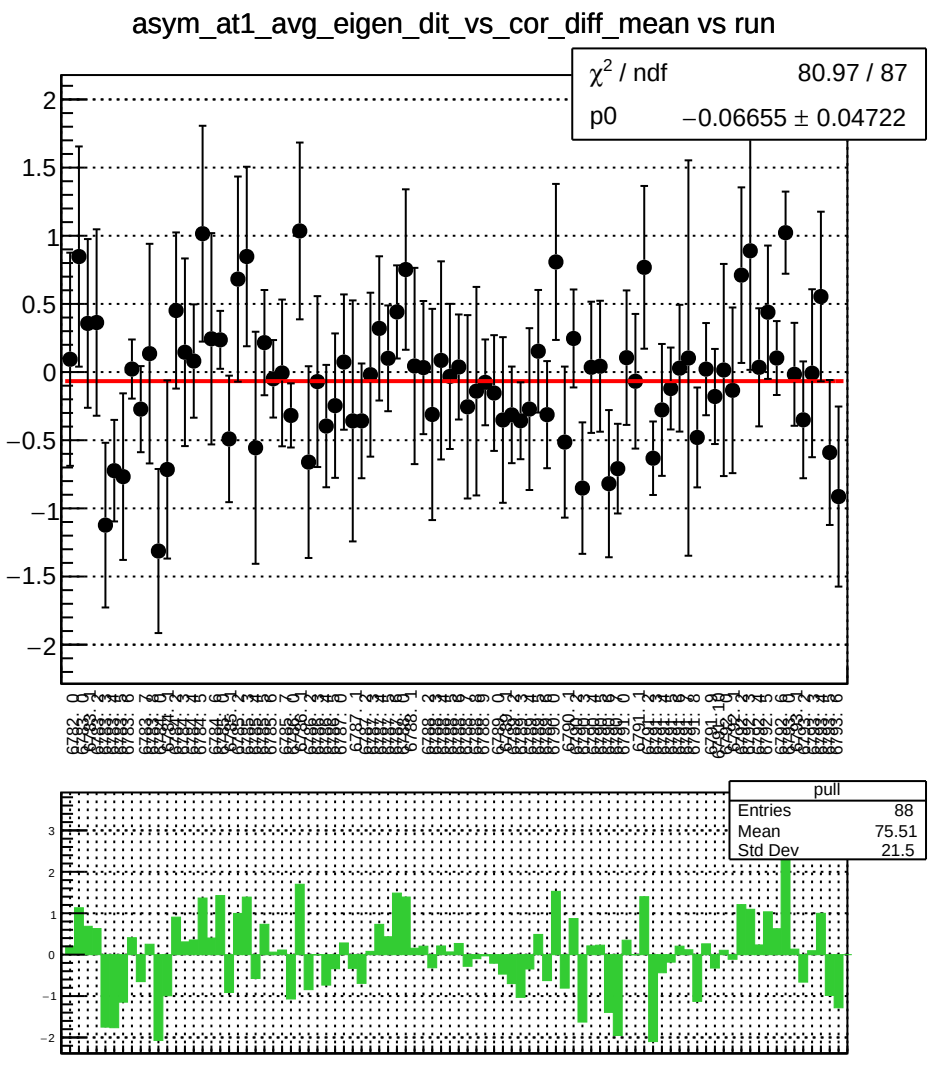

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.97 / 87
p0 −0.06655 ± 0.04722
pull
Entries 88
Mean 75.51
Std Dev 21.5

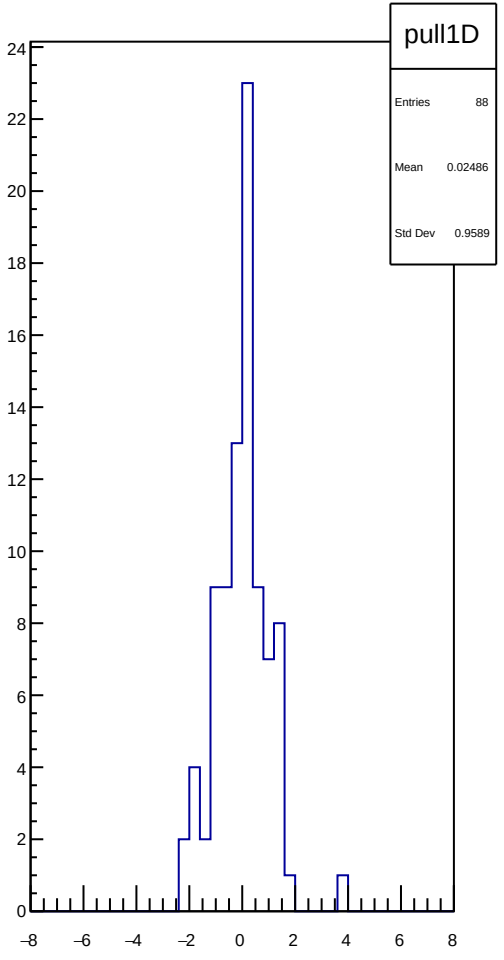

pull1D
Entries 88
Mean 0.02486
Std Dev 0.9589

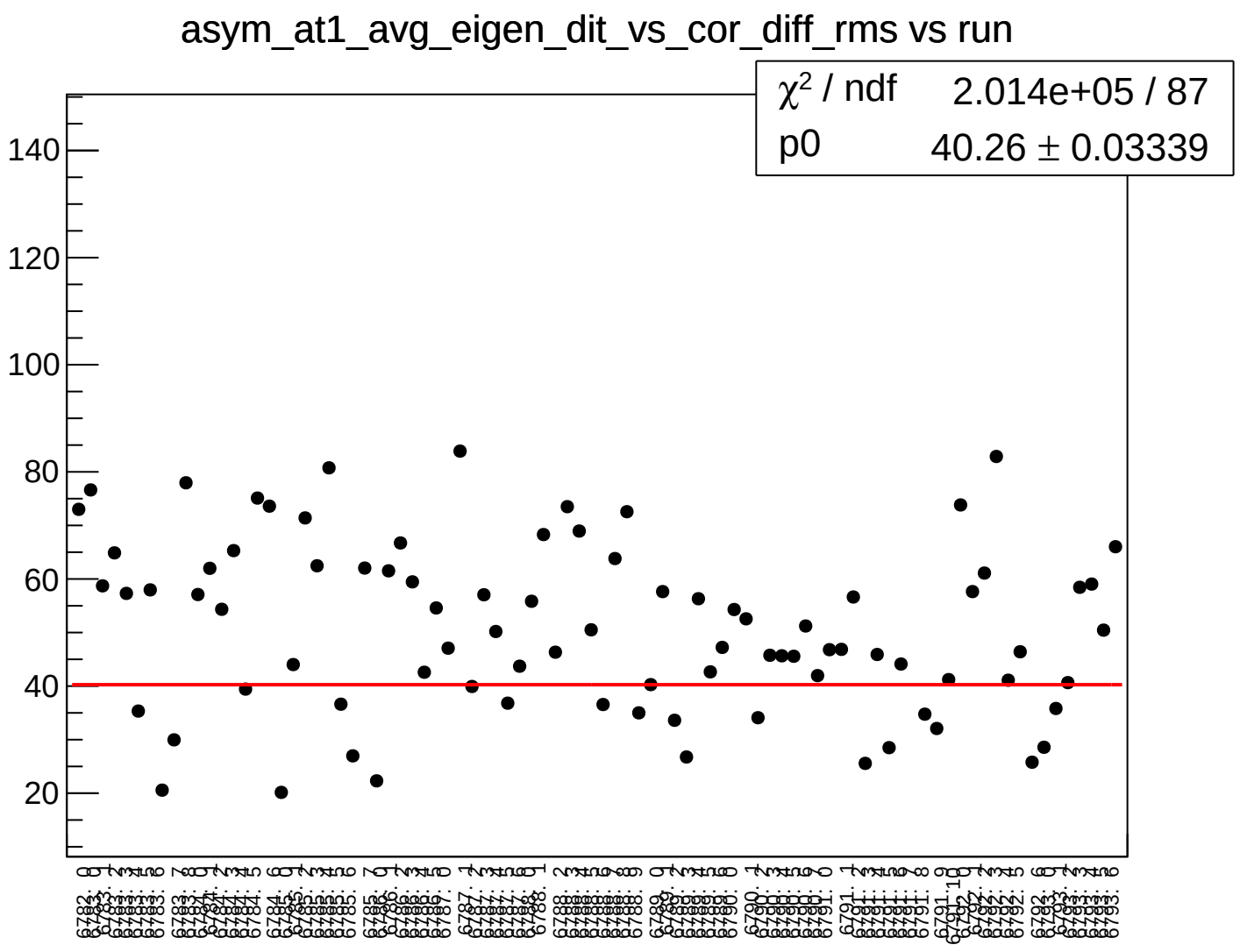

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.014e+05 / 87
p0 40.26 ± 0.03339
140
120
100
80
60
40
20

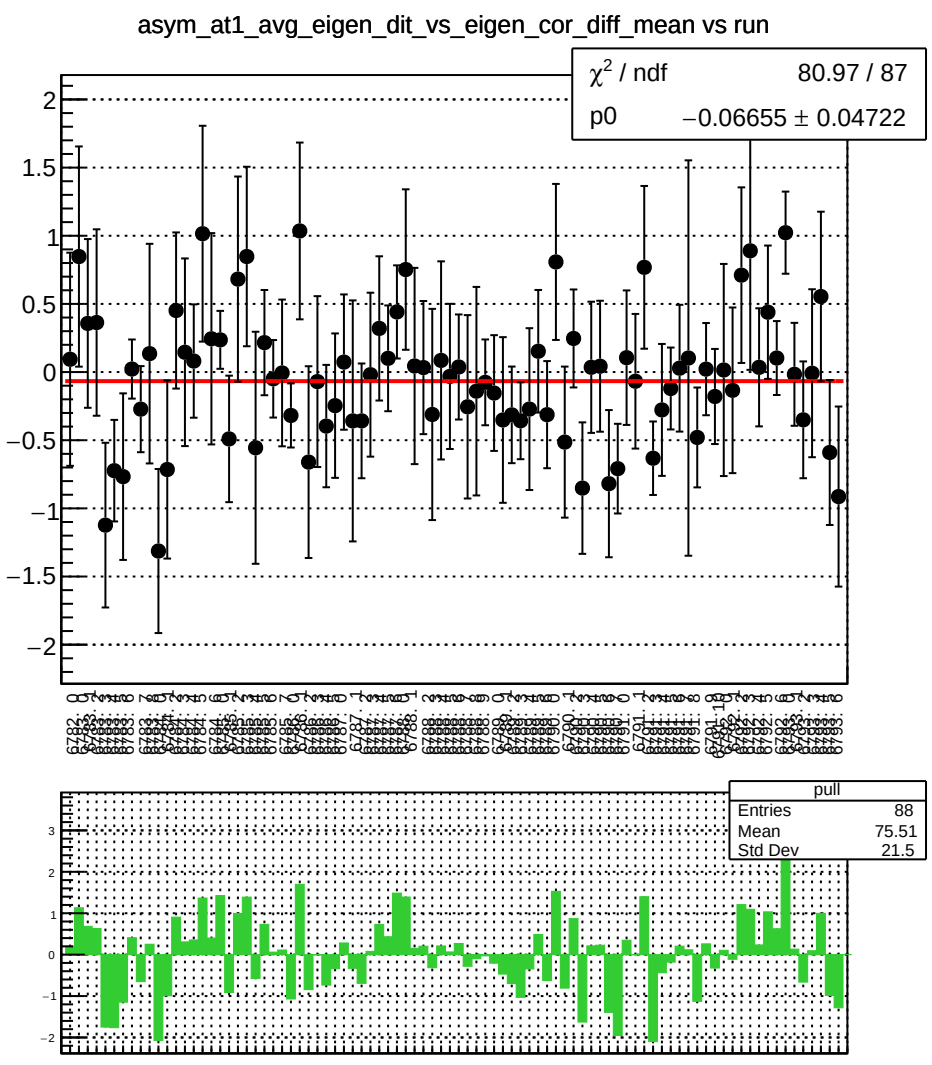

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 92.56 / 87
p0 −2.064e−06 ± 1.419e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 305.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005388
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

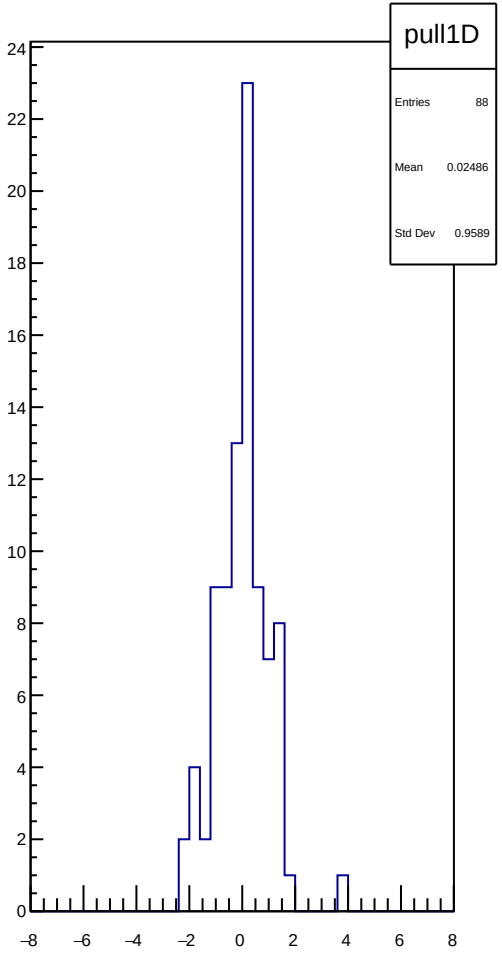

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6589 / 87
p0 0.001288 ± 1.003e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

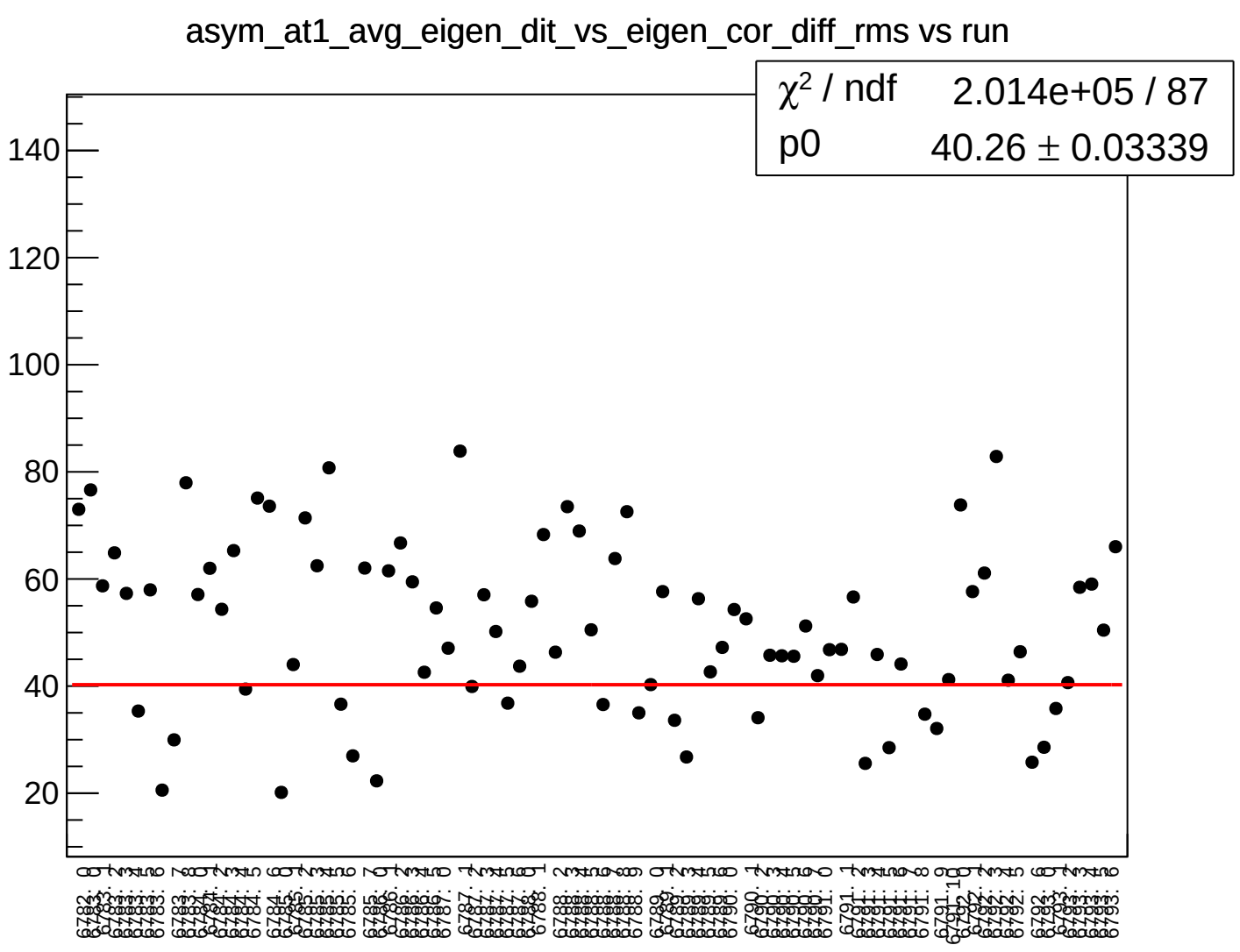

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.97 / 87
p0 −0.06655 ± 0.04722
pull
Entries 88
Mean 75.51
Std Dev 21.5

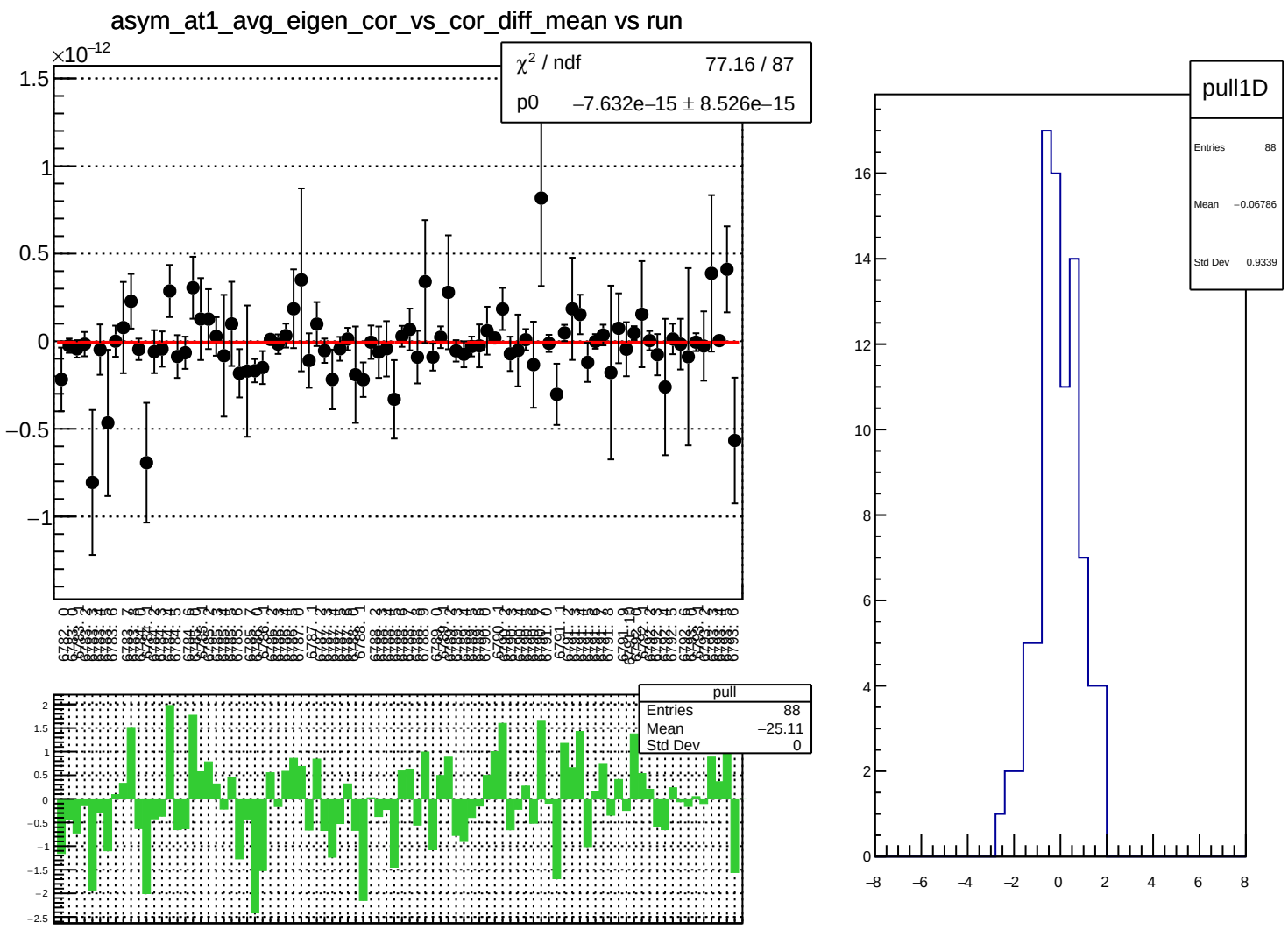

pull1D
Entries 88
Mean 0.02486
Std Dev 0.9589

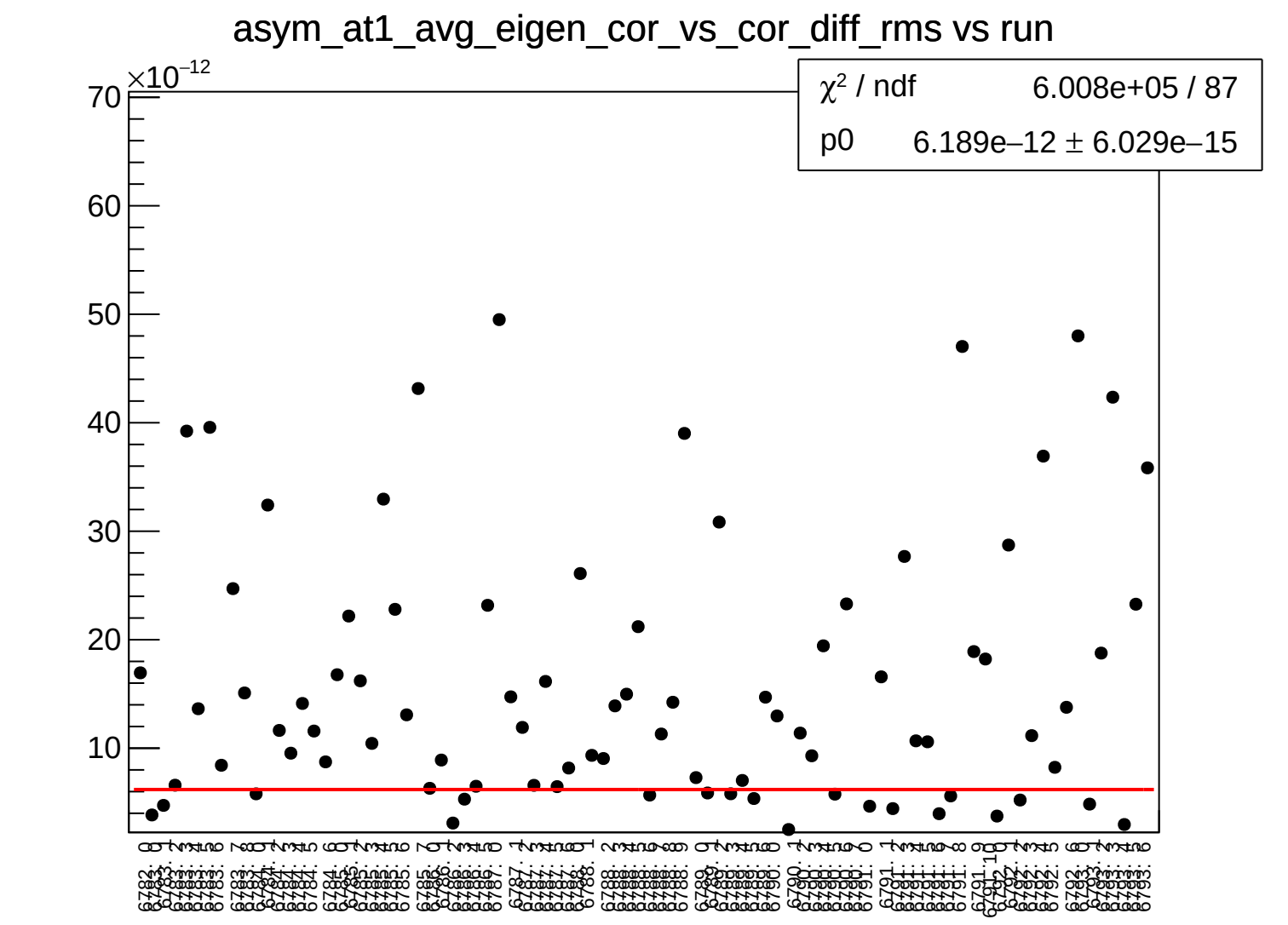

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.014e+05 / 87
p0 40.26 ± 0.03339
140
120
100
80
60
40
20

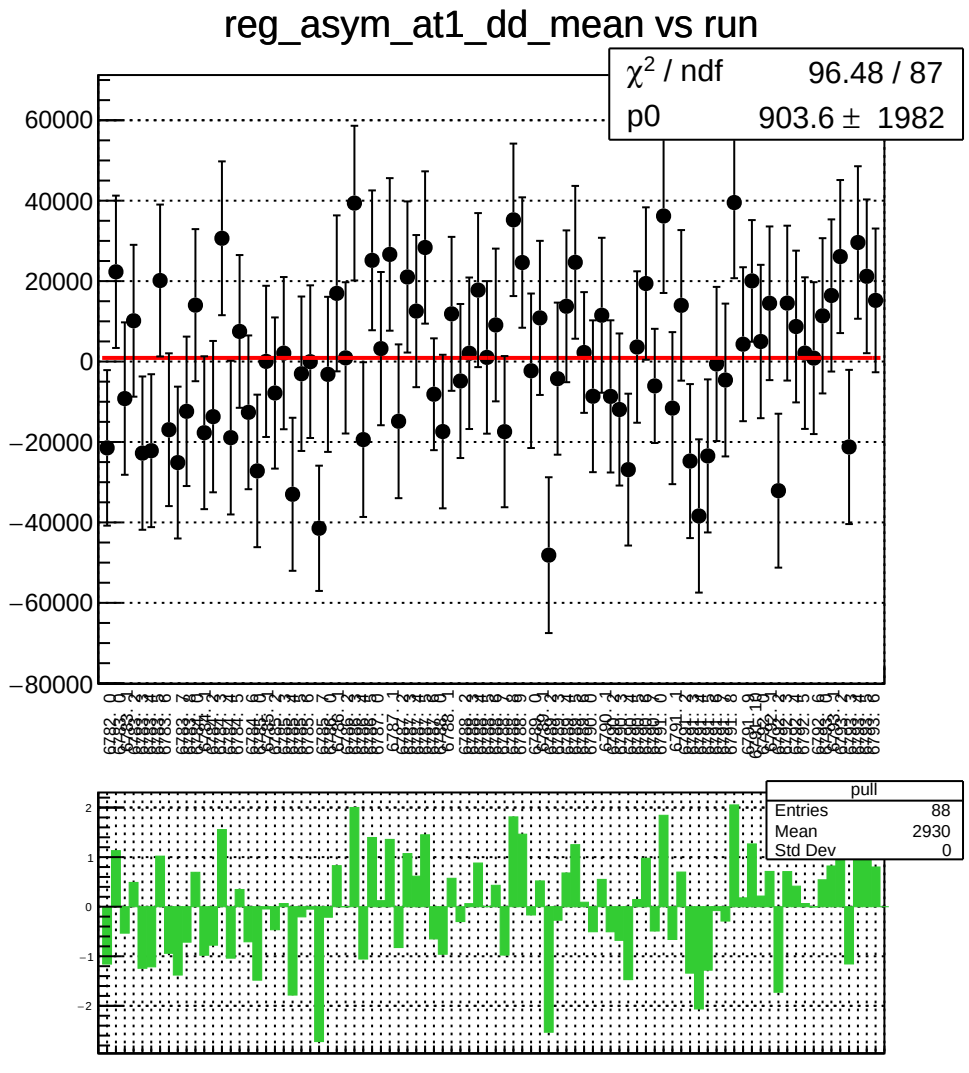

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.97 / 87
p0 −0.06655 ± 0.04722
pull
Entries 88
Mean 75.51
Std Dev 21.5

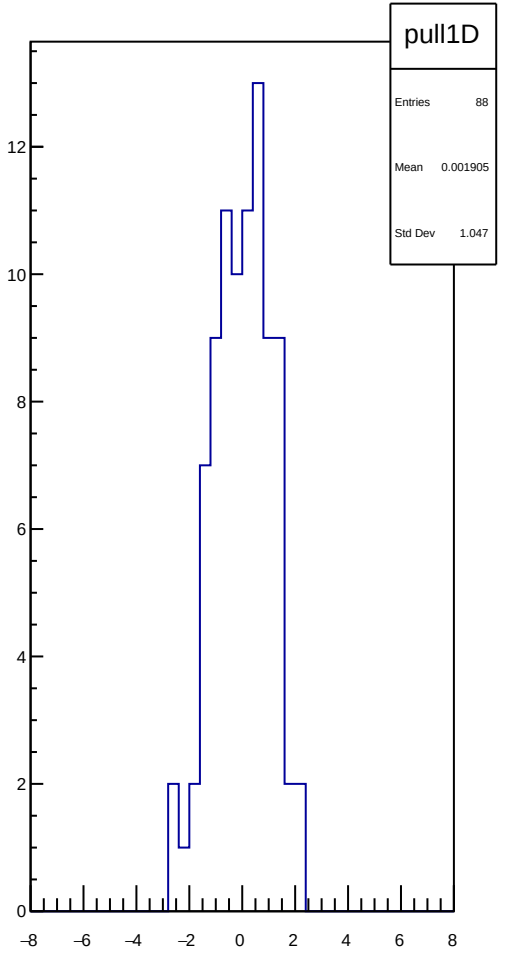

pull1D
Entries 88
Mean 0.02486
Std Dev 0.9589

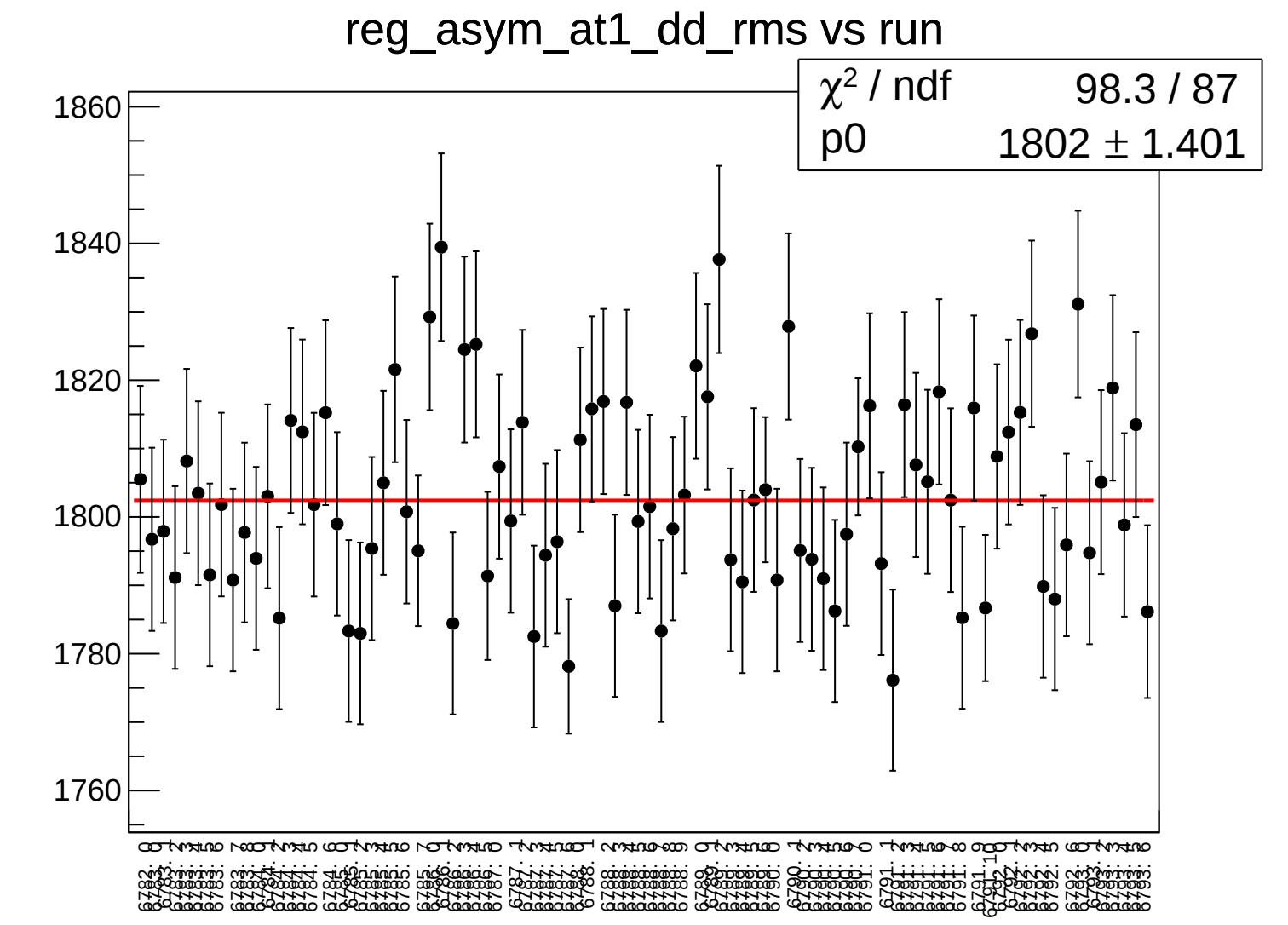

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.014e+05 / 87
p0 40.26 ± 0.03339
140
120
100
80
60
40
20

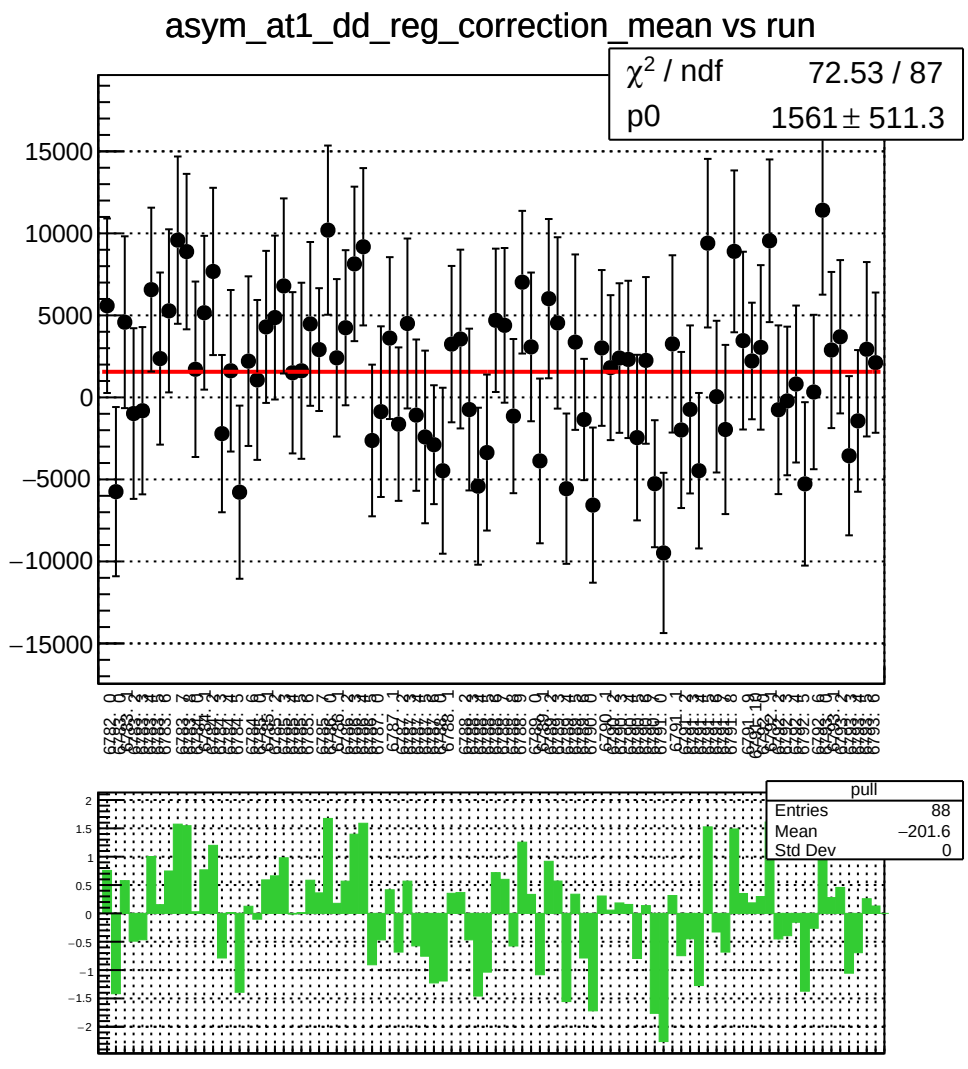

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 77.16 / 87
p0 −7.632e−15 ± 8.526e−15
pull
Entries 88
Mean −25.11
Std Dev 0
pull1D
Entries 88
Mean −0.06786
Std Dev 0.9339

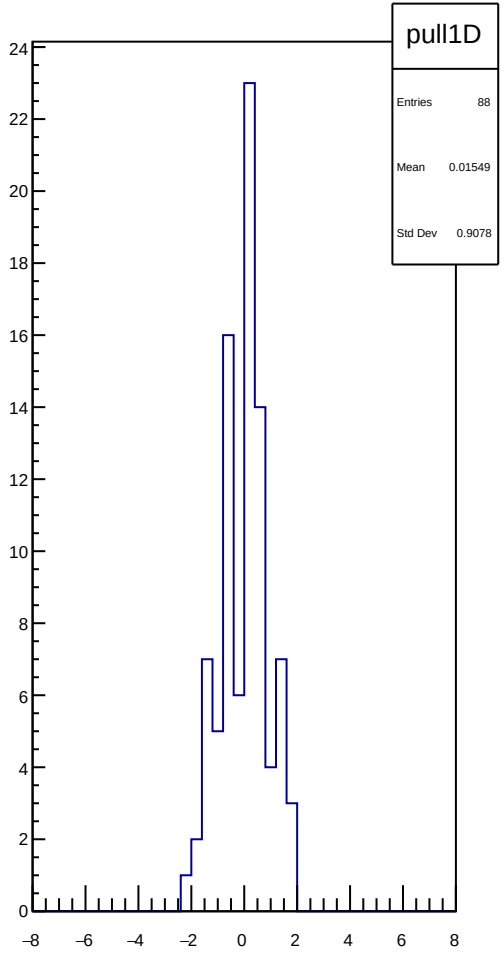

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.008e+05 / 87
p0 6.189e−12 ± 6.029e−15

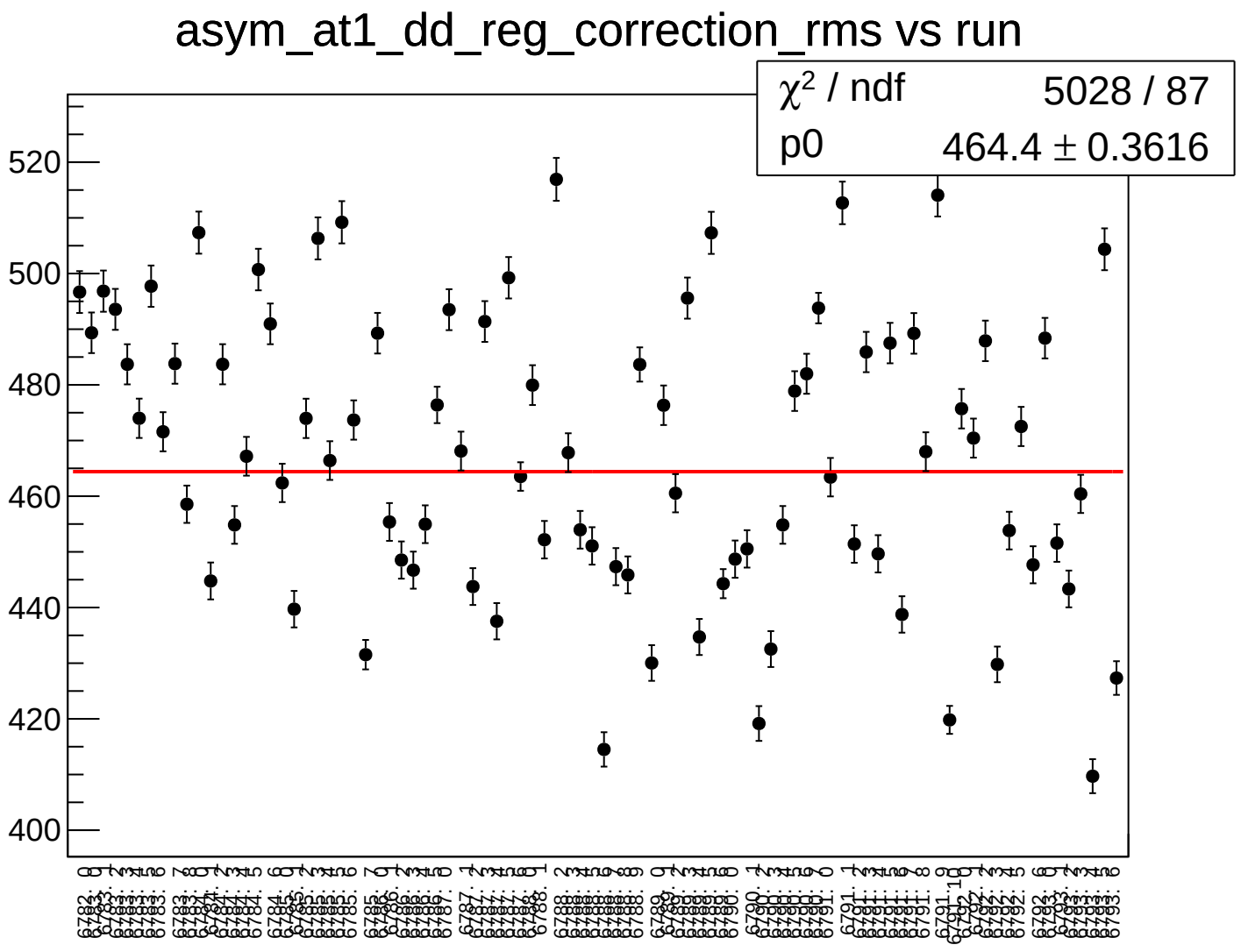

reg_asym_at1_dd_mean vs run
χ² / ndf 96.48 / 87
p0 903.6 ± 1982
pull
Entries 88
Mean 2930
Std Dev 0

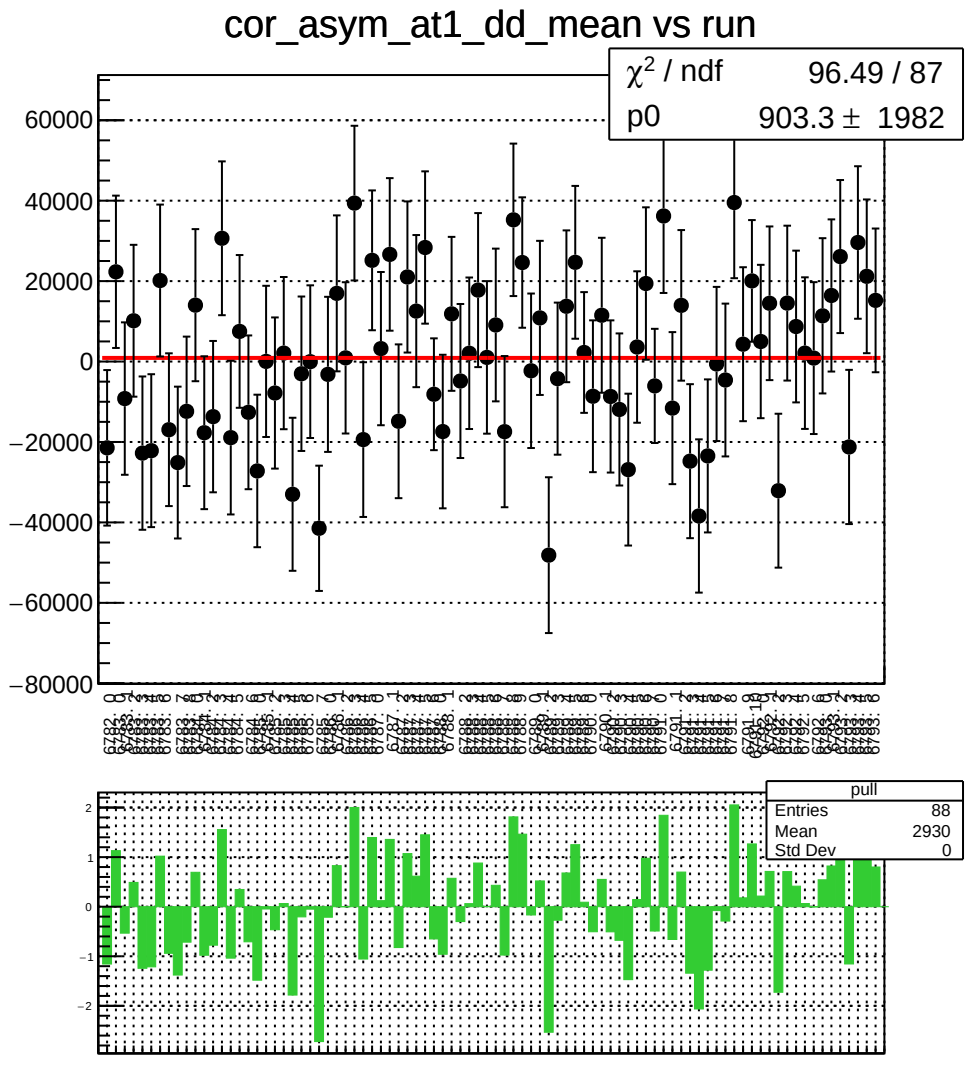

pull1D
Entries 88
Mean 0.001905
Std Dev 1.047

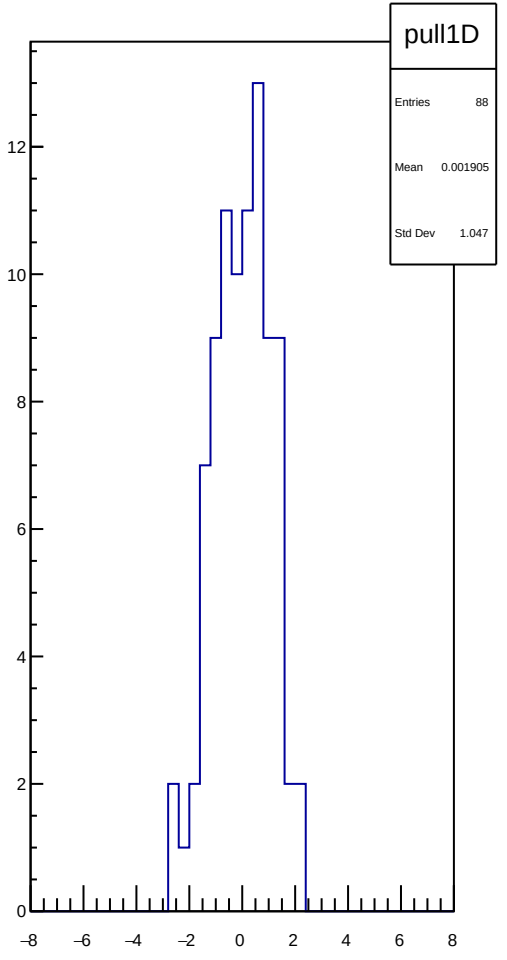

reg_asym_at1_dd_rms vs run
χ² / ndf 98.3 / 87
p0 1802 ± 1.401
1860
1840
1820
1800
1780
1760

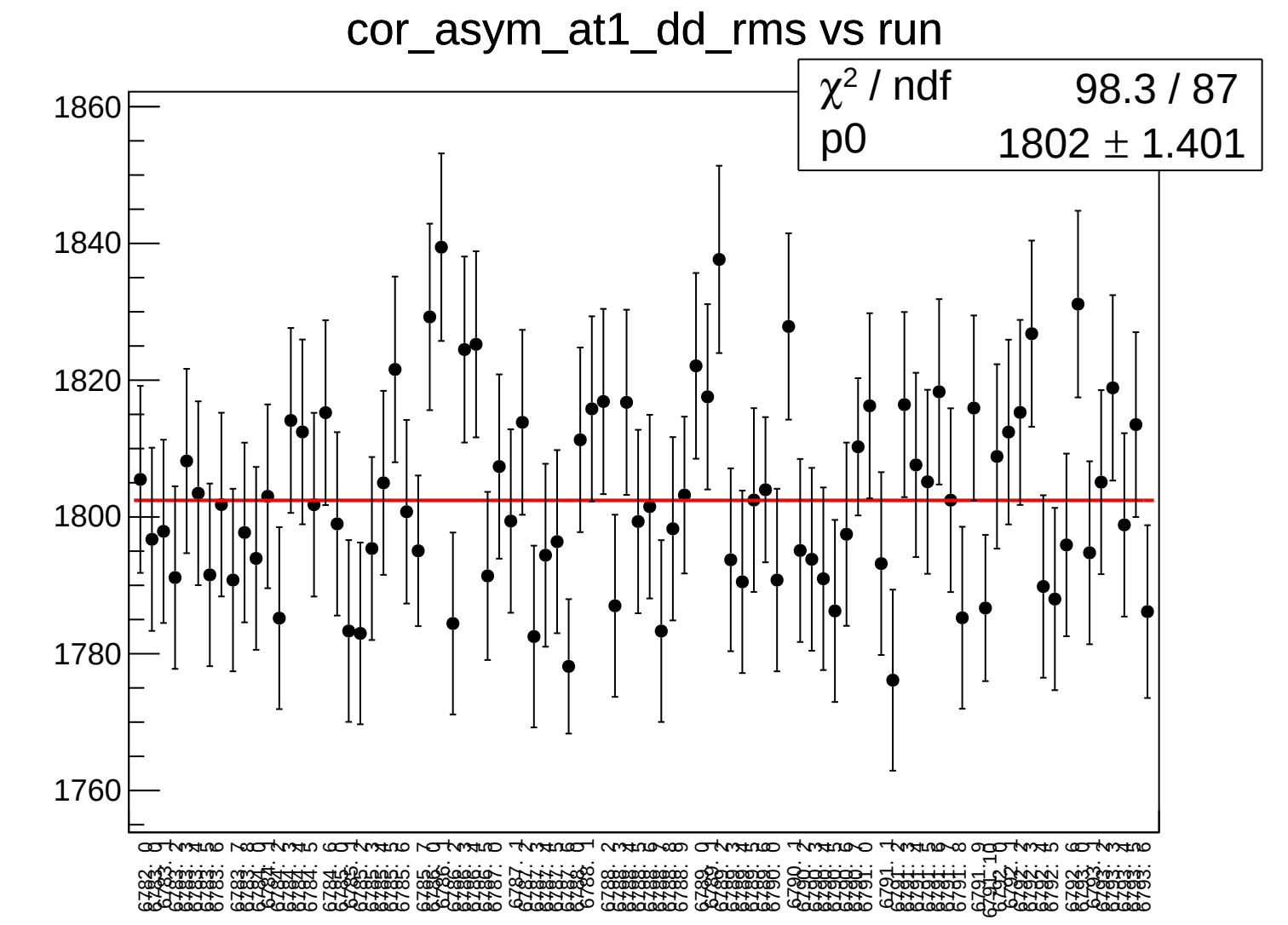

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 72.53 / 87
p0 1561 ± 511.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −201.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

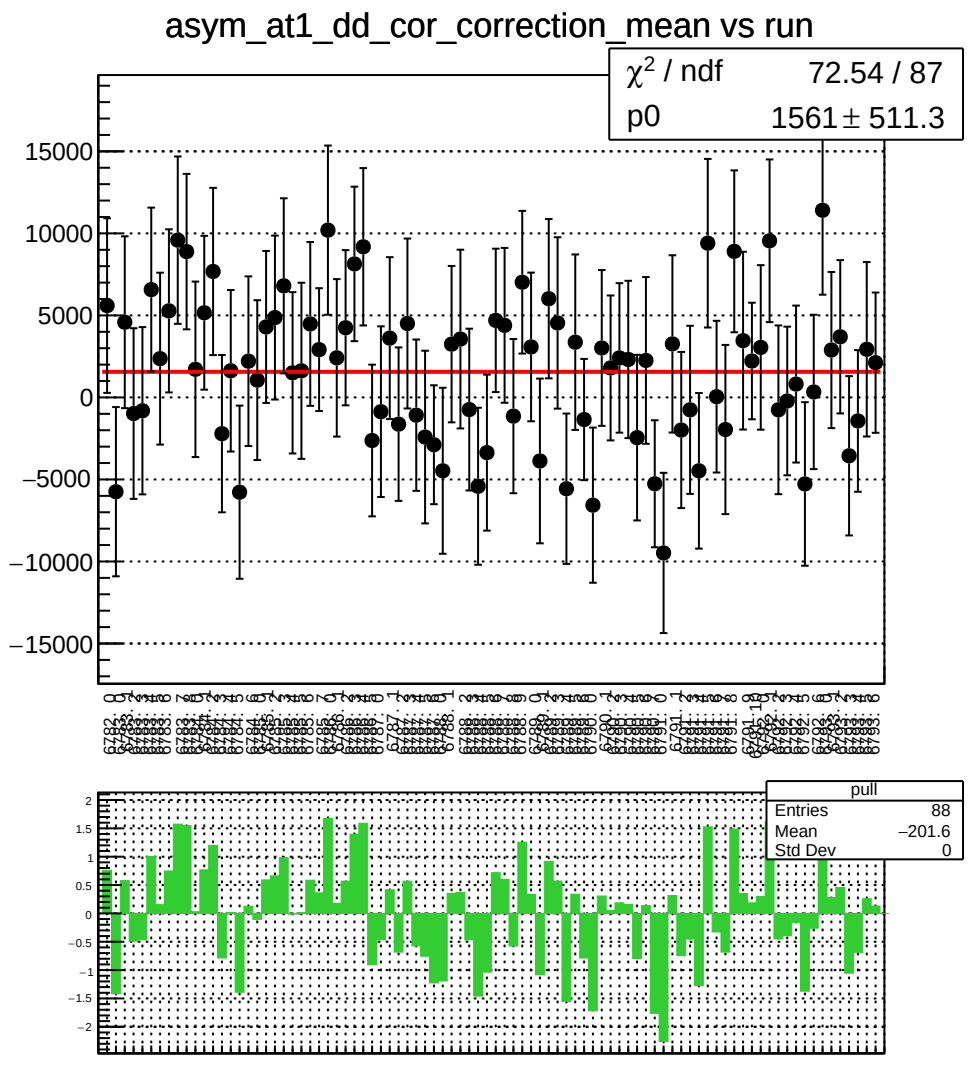

pull1D
Entries 88
Mean 0.01549
Std Dev 0.9078
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

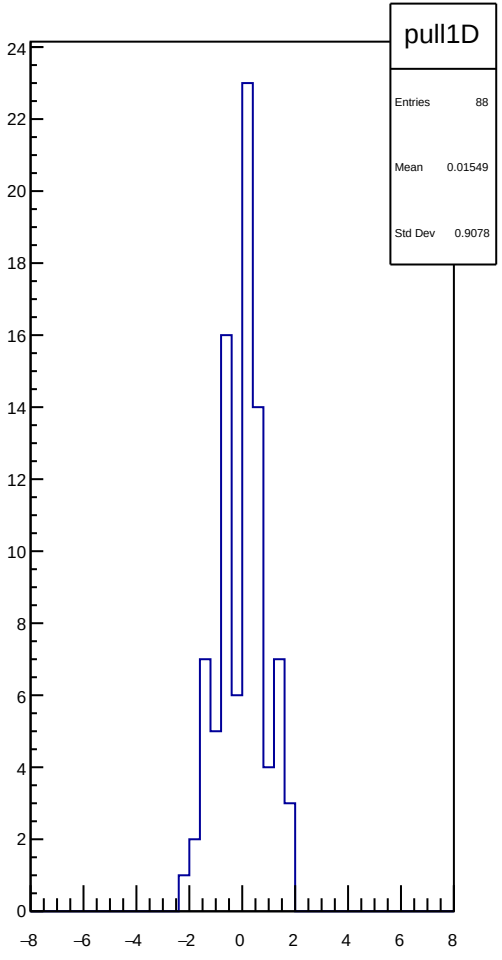

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 5028 / 87
p0 464.4 ± 0.3616
520
500
480
460
440
420
400

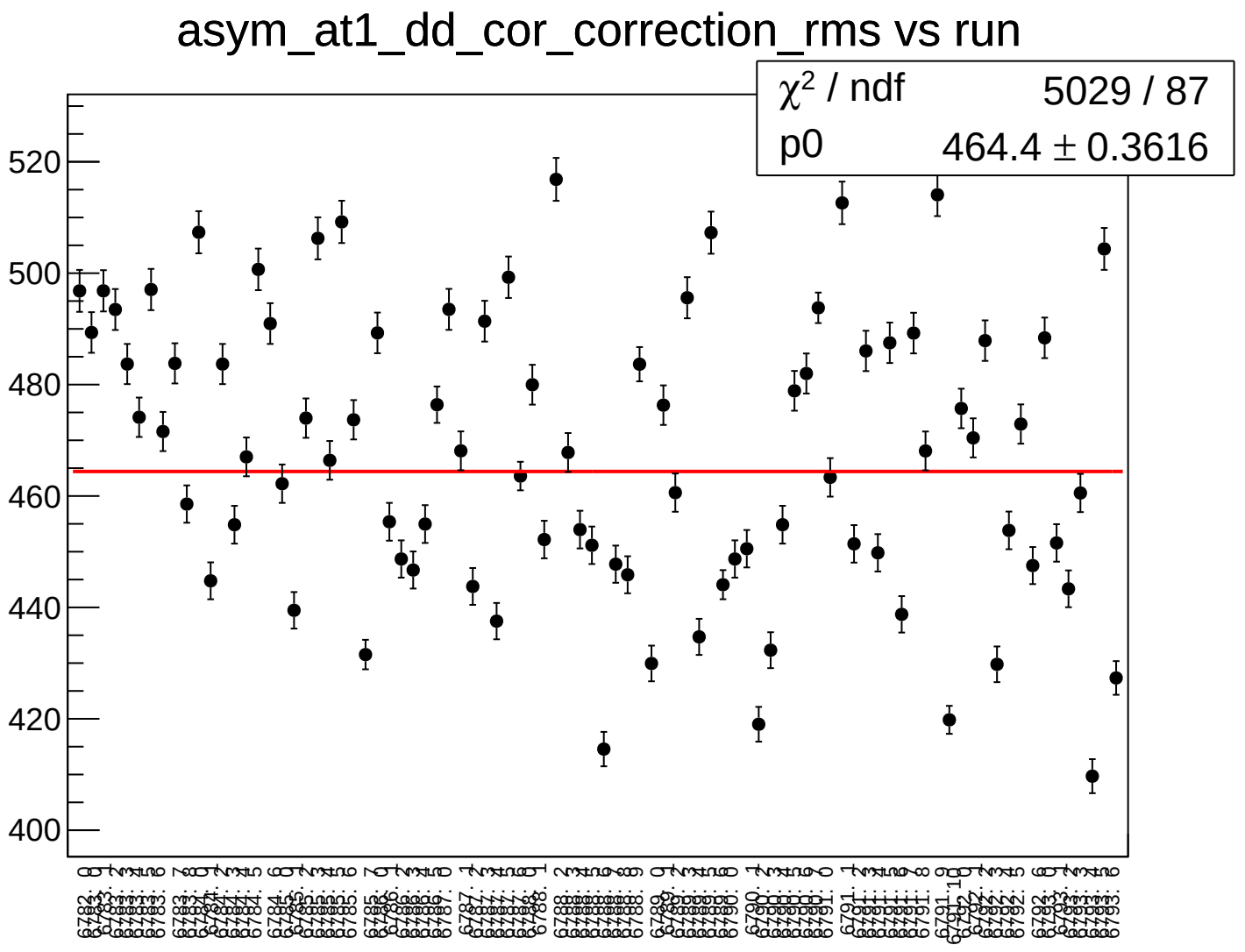

cor_asym_at1_dd_mean vs run
χ² / ndf 96.49 / 87
p0 903.3 ± 1982
pull
Entries 88
Mean 2930
Std Dev 0

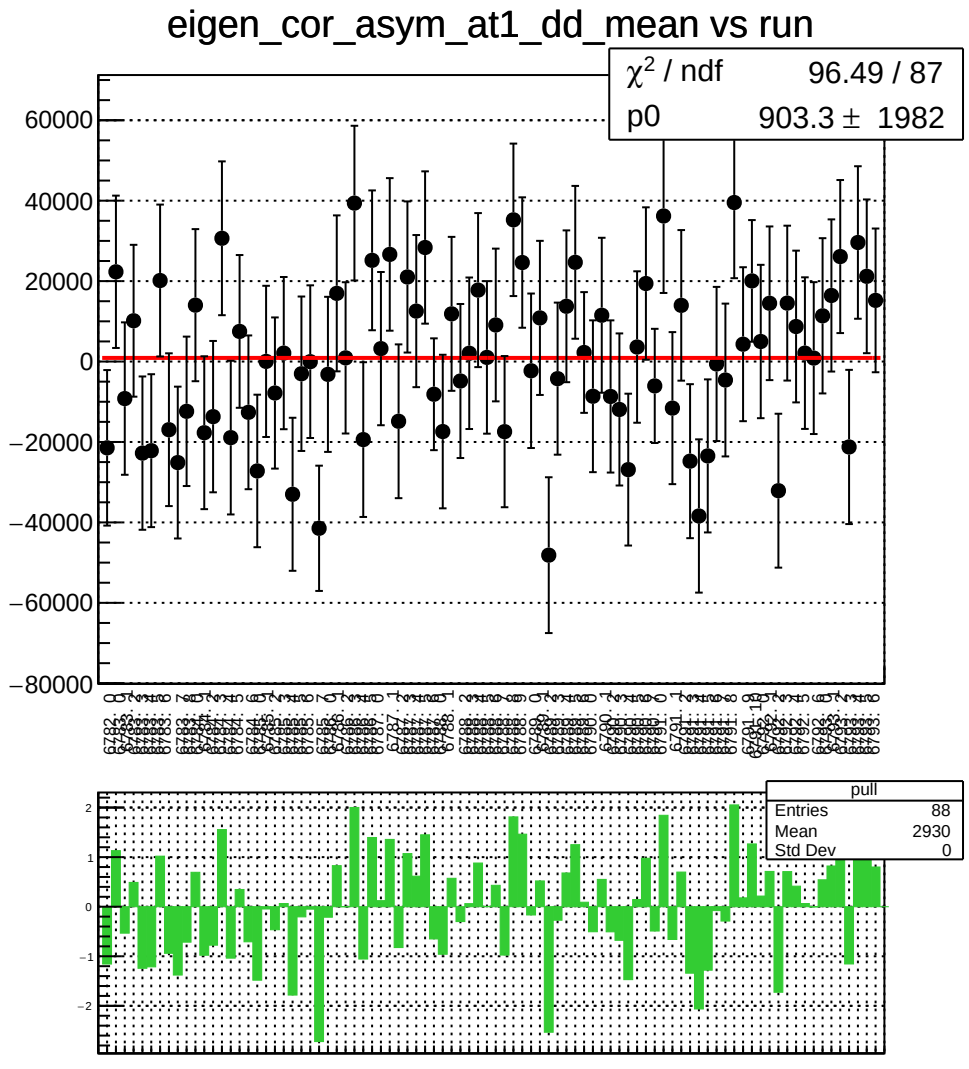

pull1D
Entries 88
Mean 0.001905
Std Dev 1.047

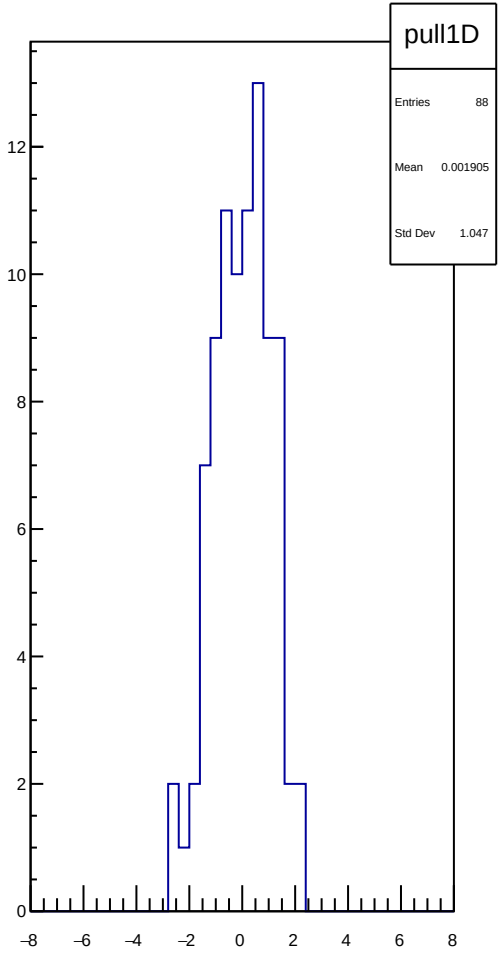

cor_asym_at1_dd_rms vs run
χ² / ndf 98.3 / 87
p0 1802 ± 1.401
1860
1840
1820
1800
1780
1760

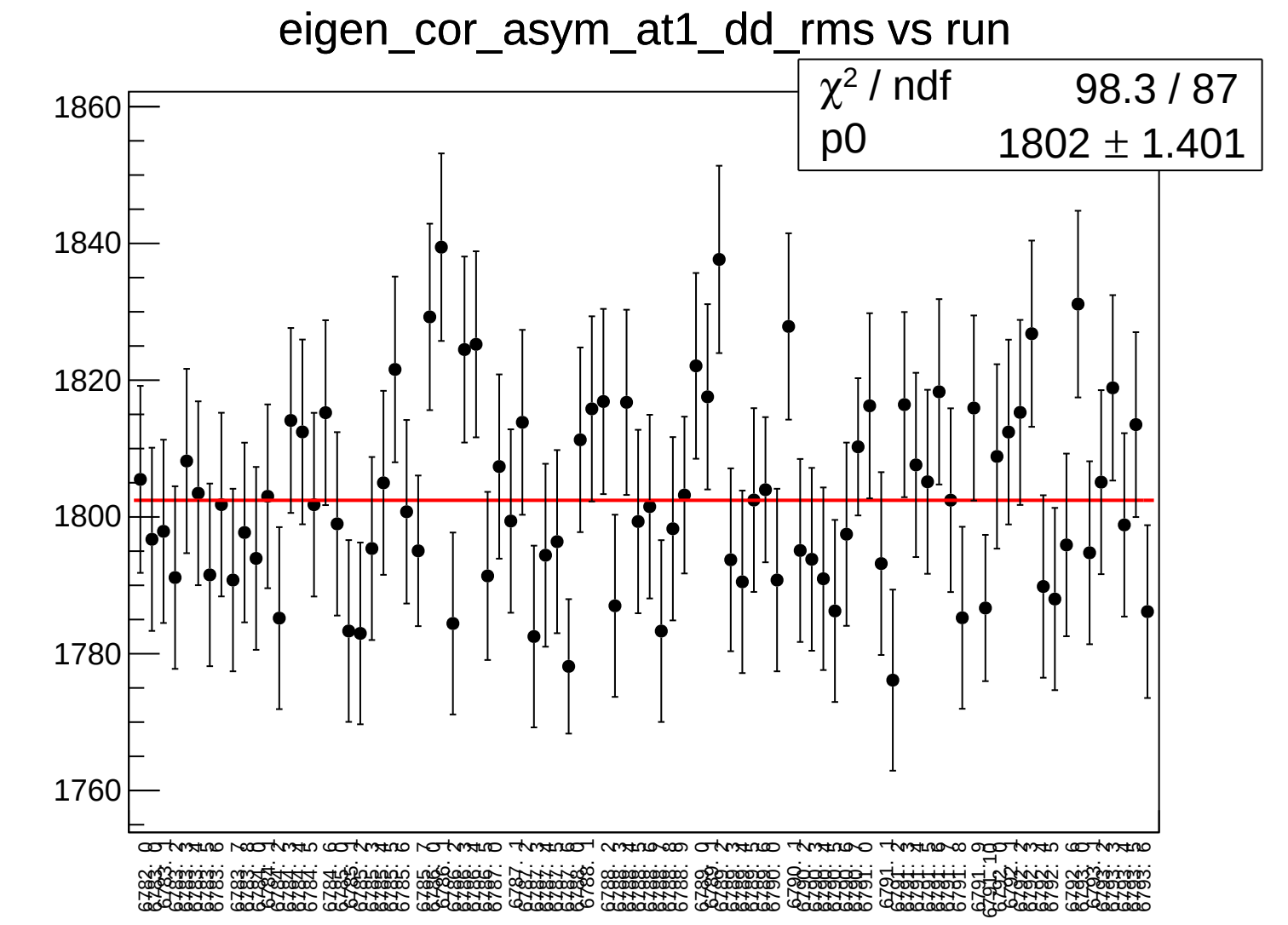

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 72.54 / 87
p0 1561 ± 511.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −201.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

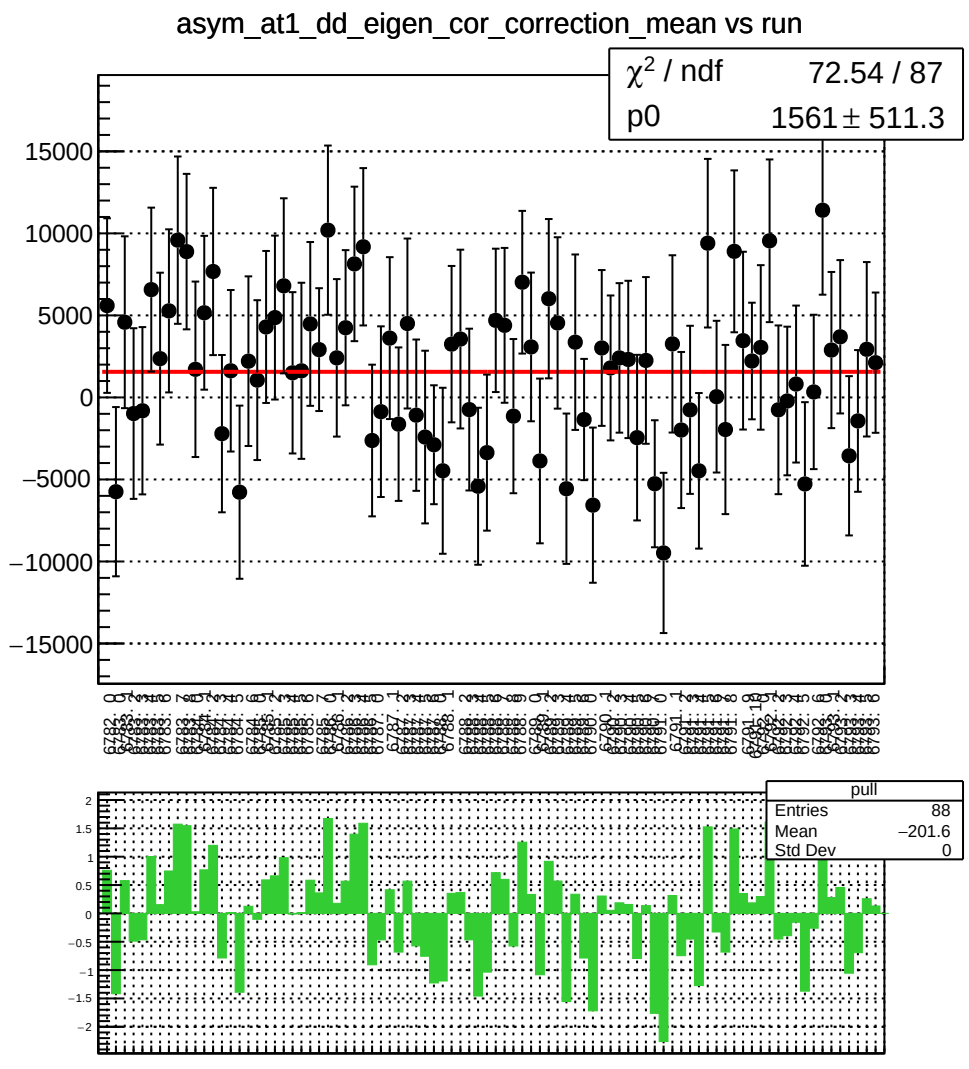

pull1D
Entries 88
Mean 0.01549
Std Dev 0.9078
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

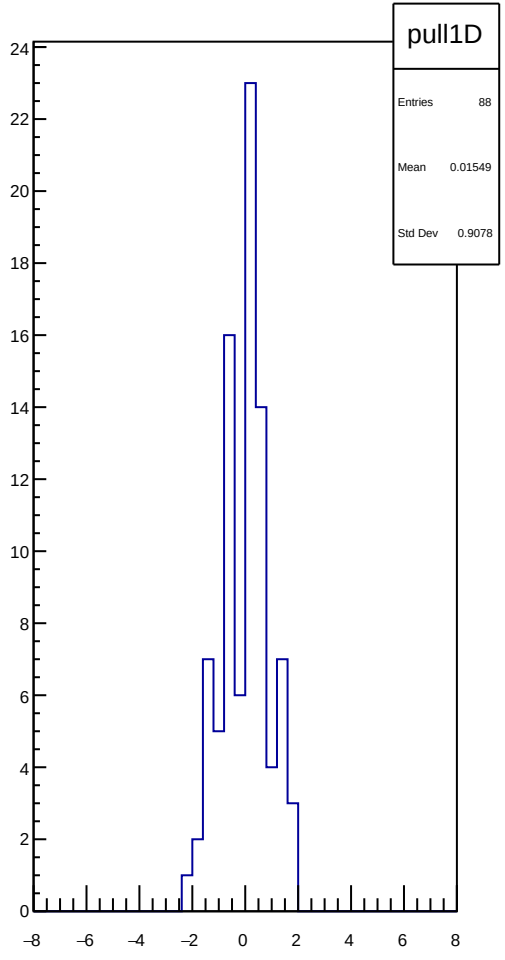

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 5029 / 87
p0 464.4 ± 0.3616
520
500
480
460
440
420
400

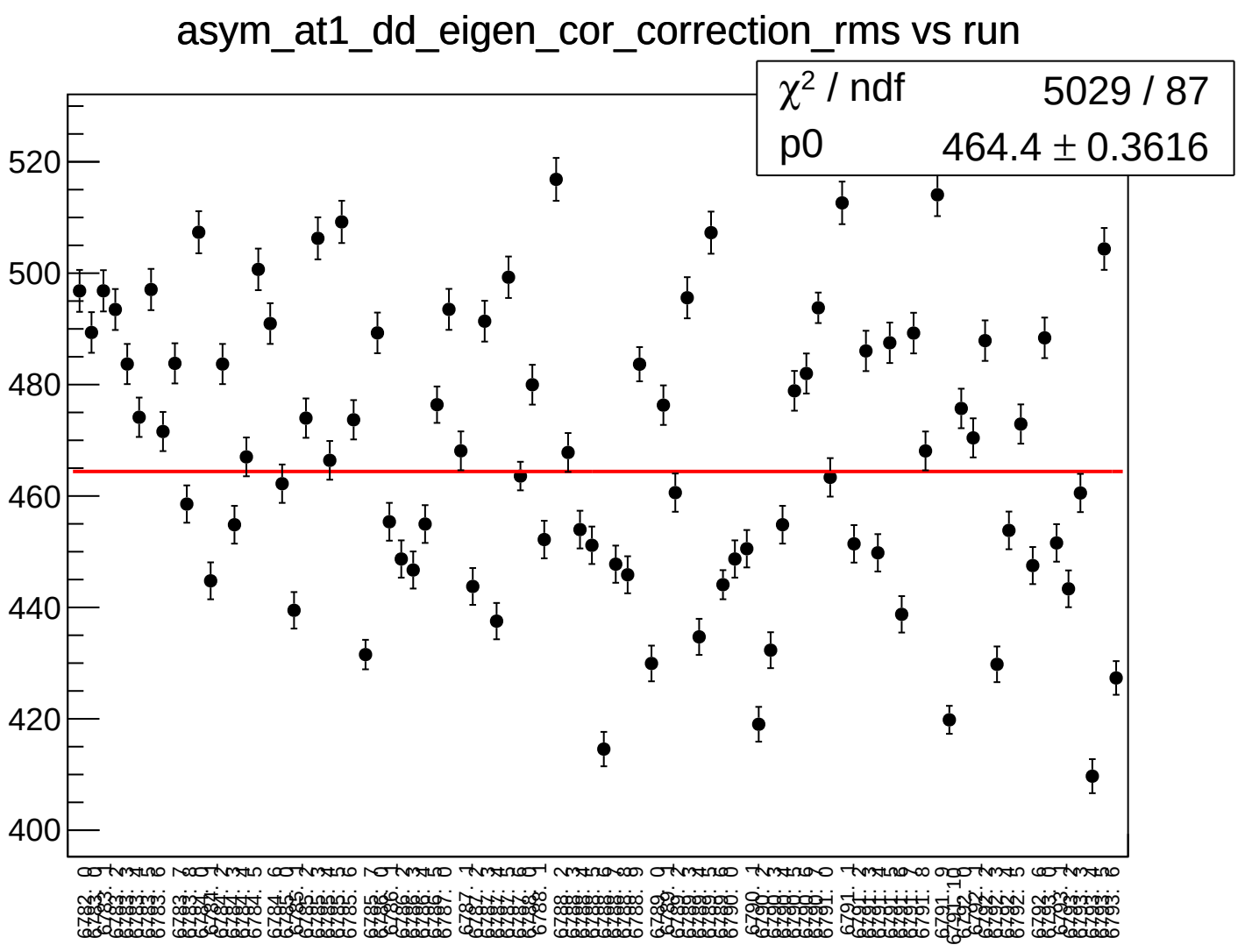

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 96.49 / 87
p0 903.3 ± 1982
pull
Entries 88
Mean 2930
Std Dev 0

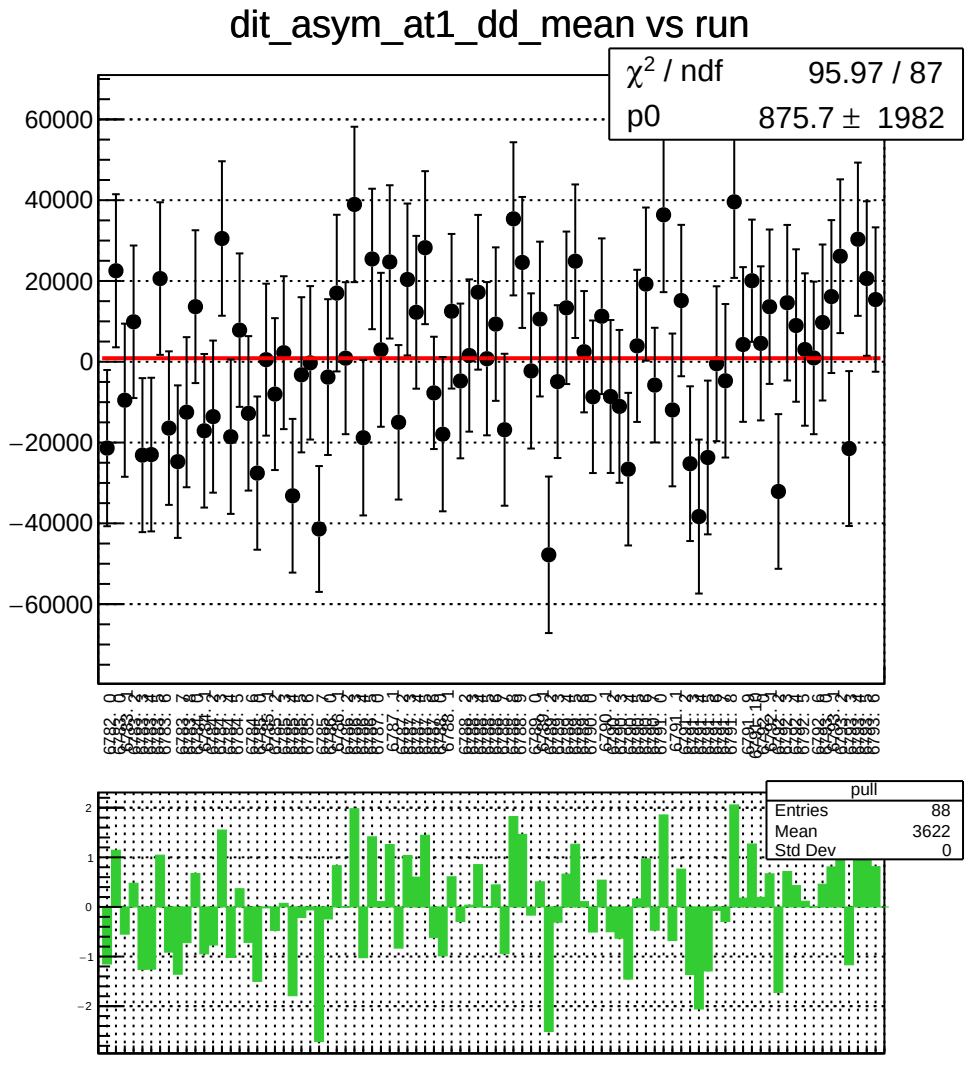

pull1D
Entries 88
Mean 0.001905
Std Dev 1.047

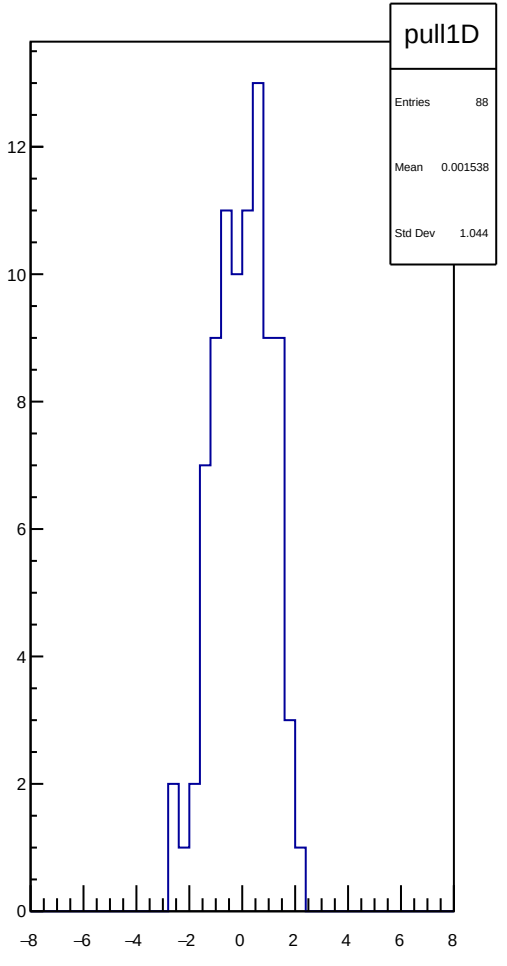

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 98.3 / 87
p0 1802 ± 1.401
1860
1840
1820
1800
1780
1760

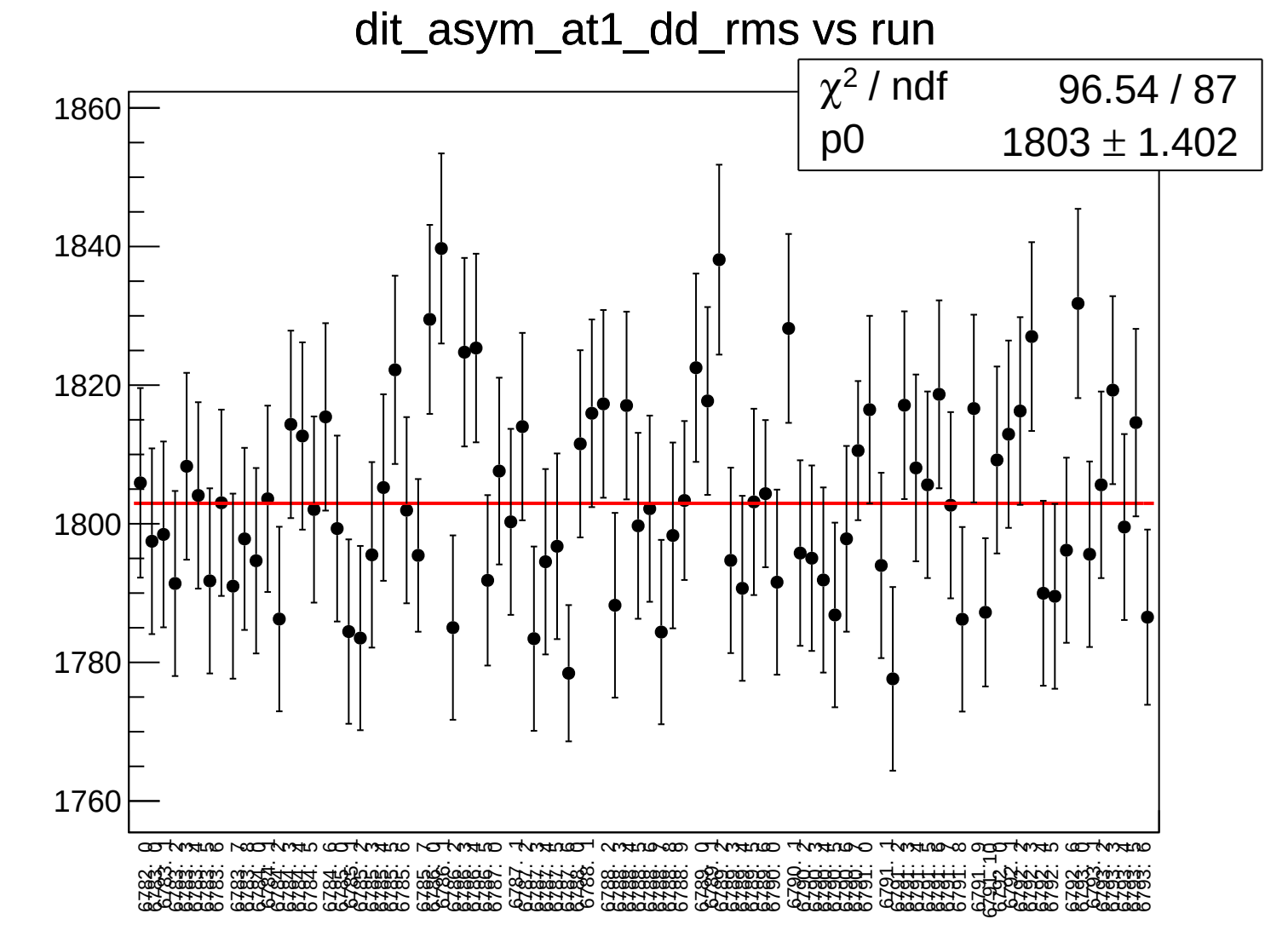

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.54 / 87
p0 1561 ± 511.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −201.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

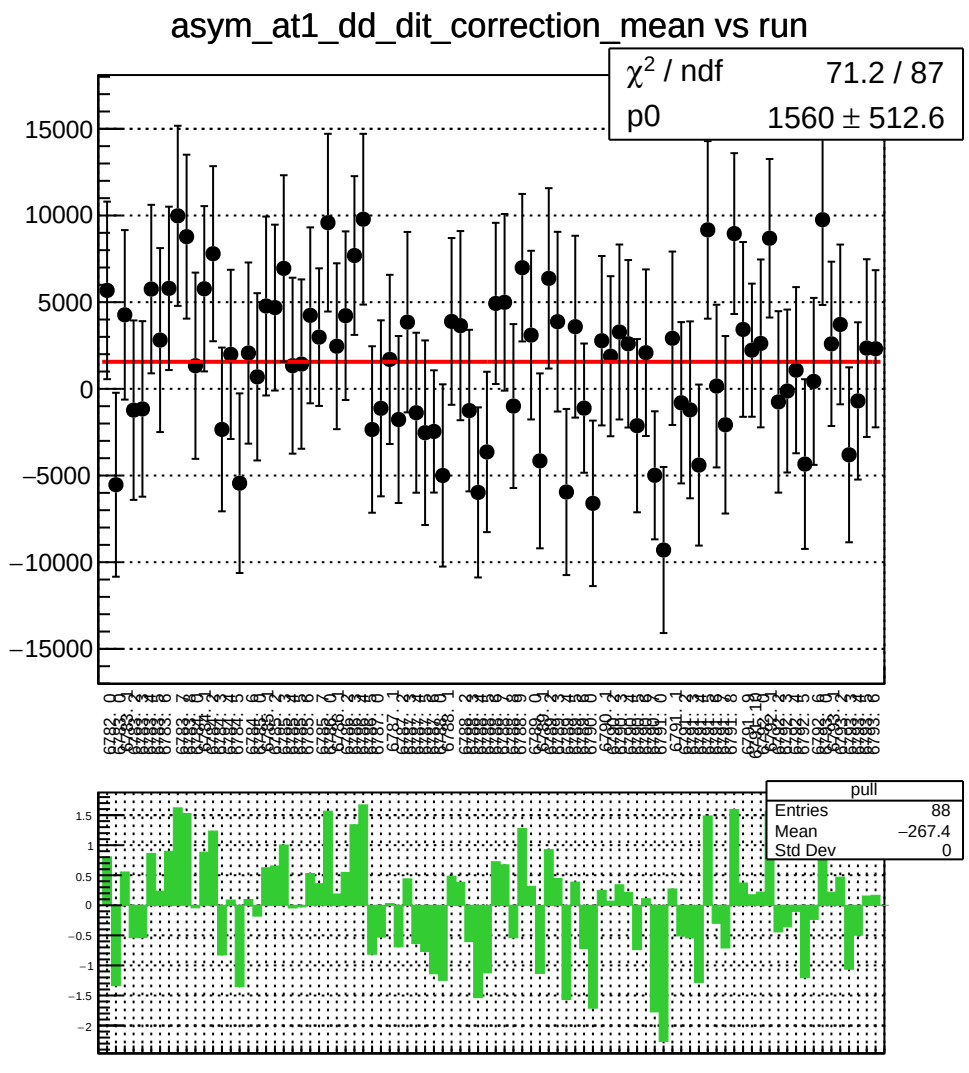

pull1D
Entries 88
Mean 0.01549
Std Dev 0.9078
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

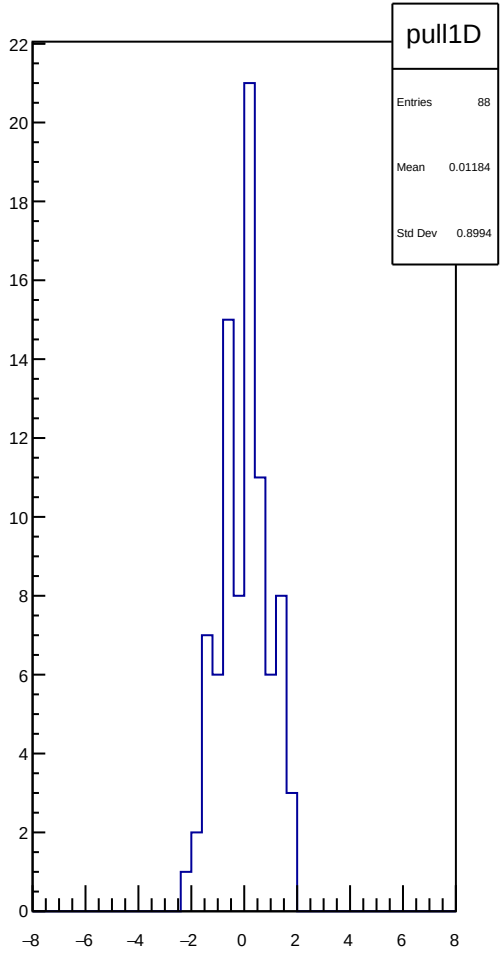

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5029 / 87
p0 464.4 ± 0.3616
520
500
480
460
440
420
400

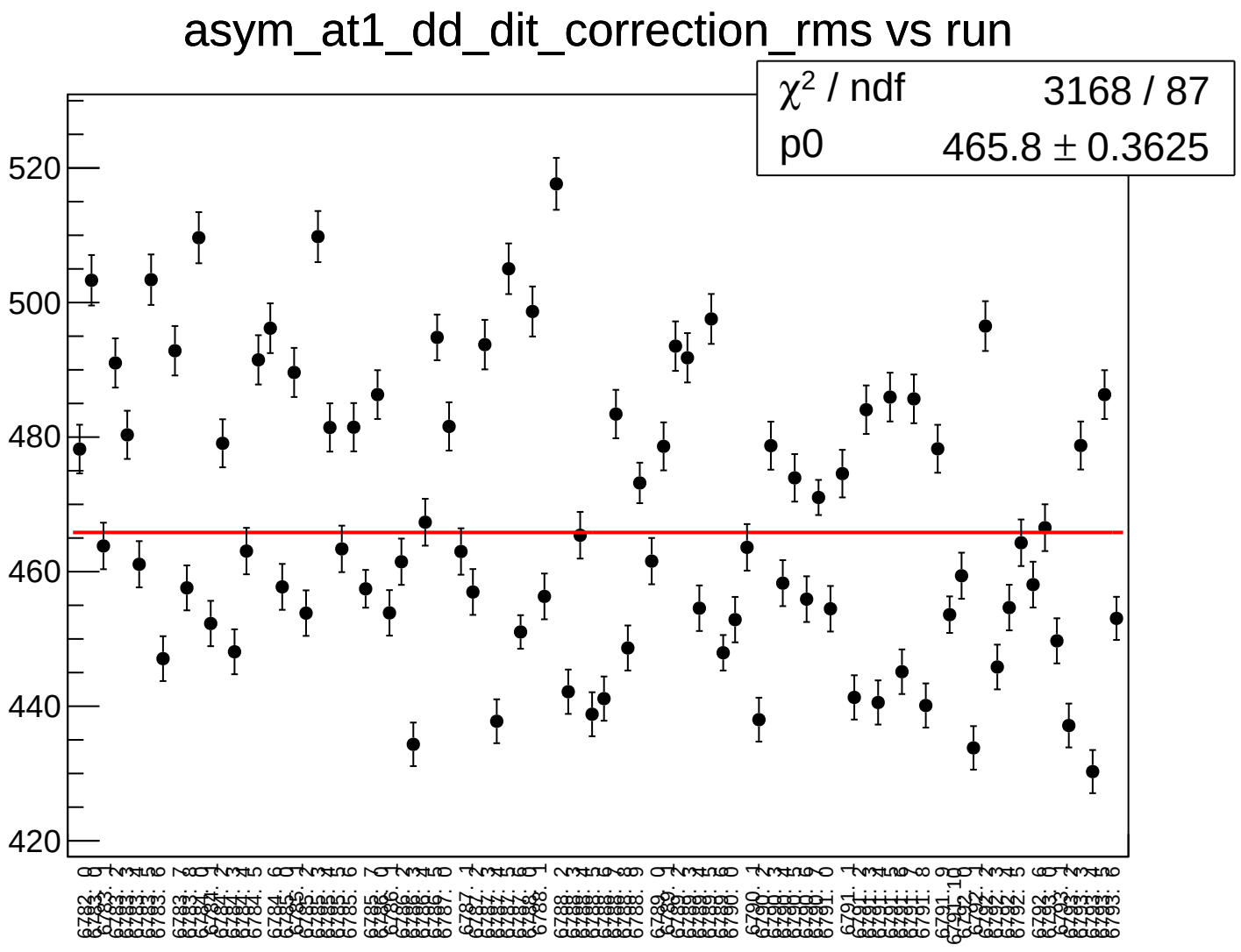

dit_asym_at1_dd_mean vs run
χ² / ndf 95.97 / 87
p0 875.7 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 3622
Std Dev 0
2
1
0
−1
−2

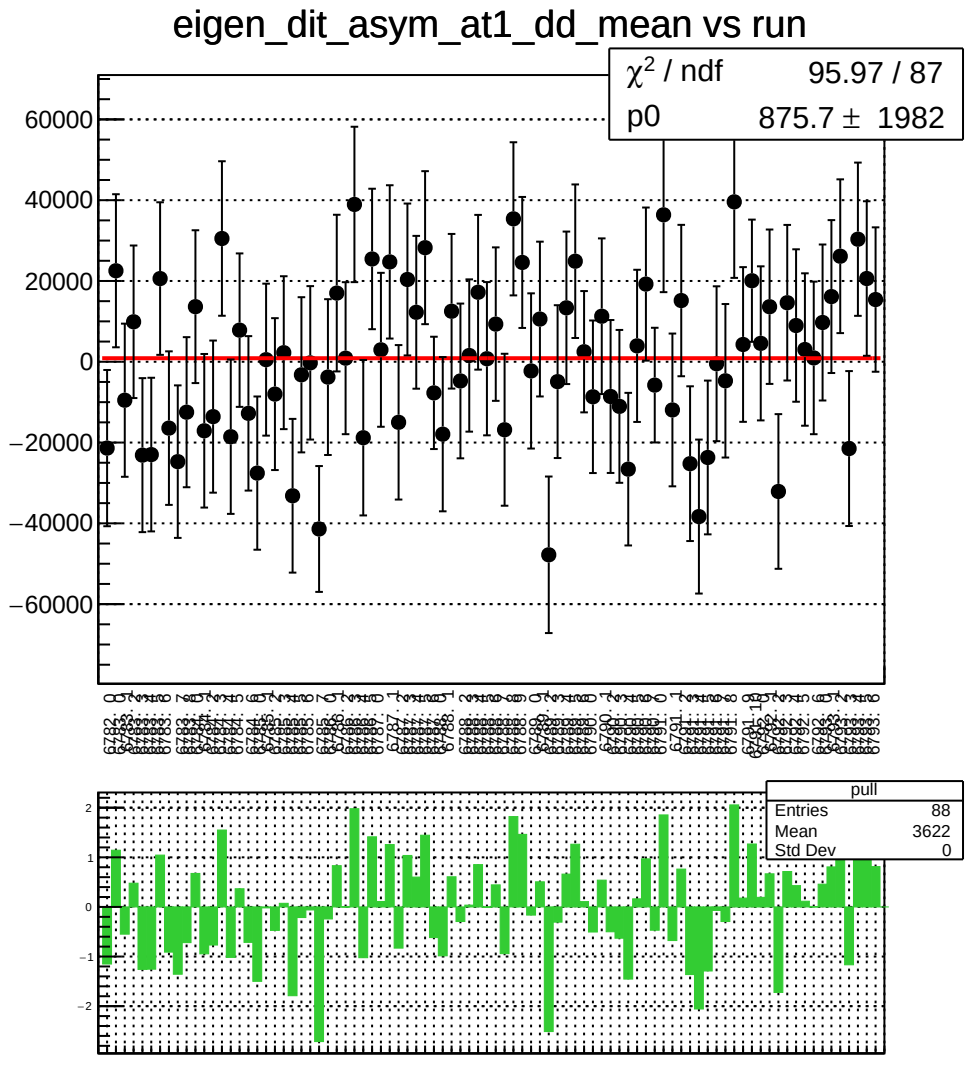

pull1D
Entries 88
Mean 0.001538
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

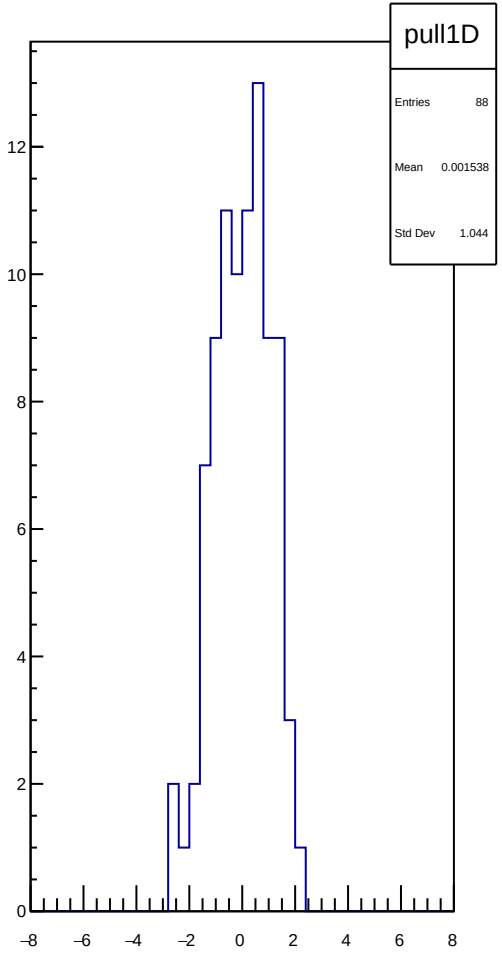

dit_asym_at1_dd_rms vs run
χ² / ndf 96.54 / 87
p0 1803 ± 1.402
1860
1840
1820
1800
1780
1760

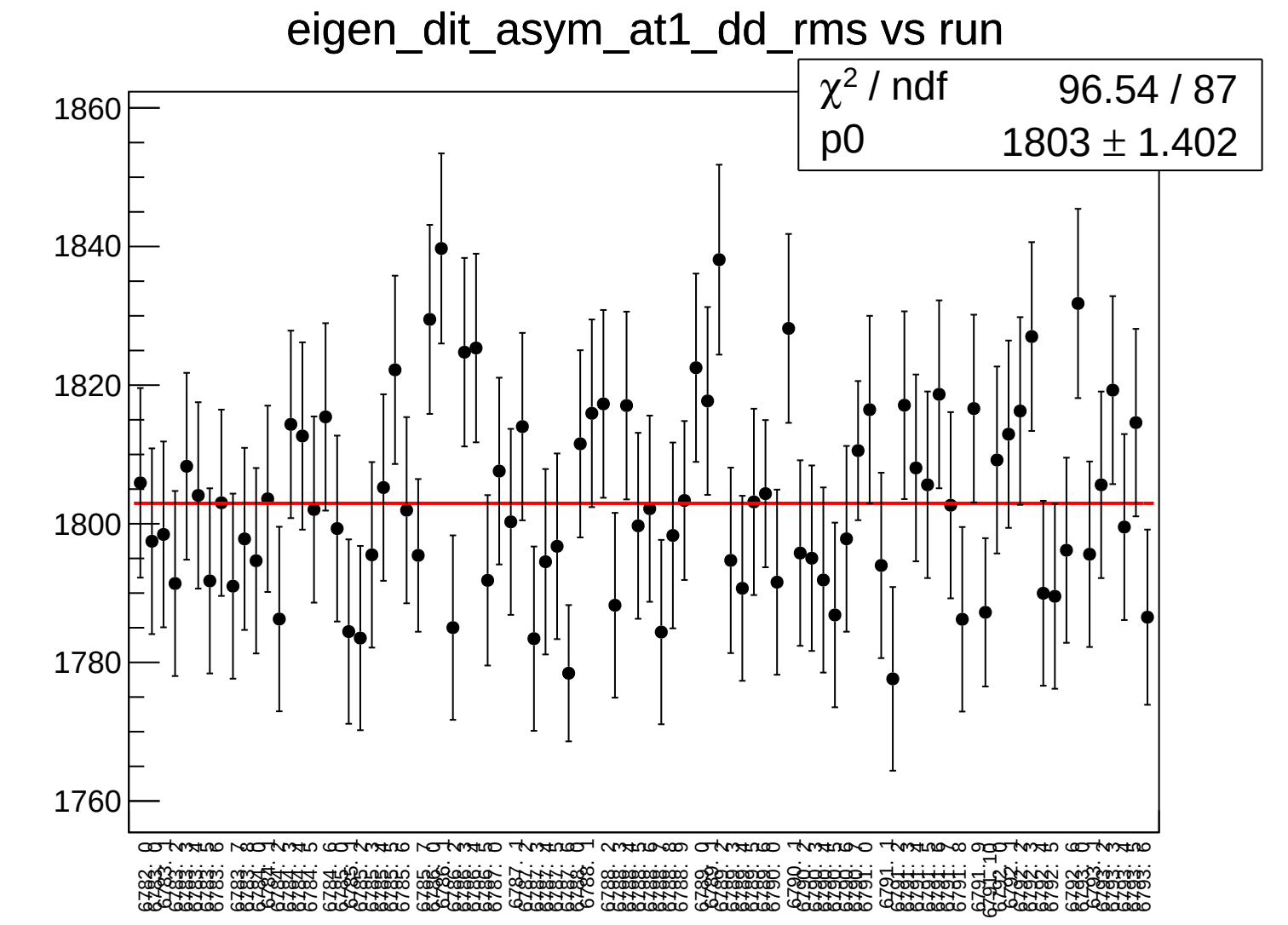

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 71.2 / 87
p0 1560 ± 512.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −267.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

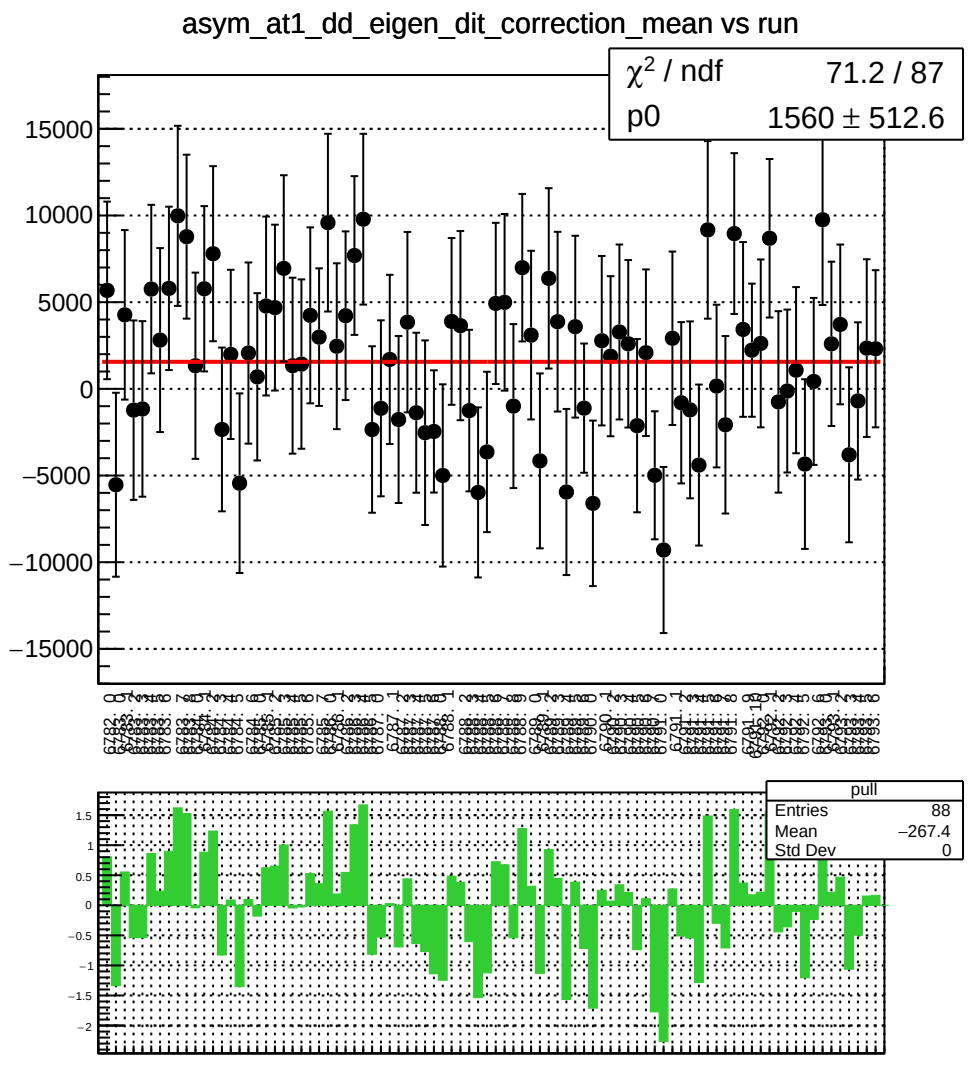

pull1D
Entries 88
Mean 0.01184
Std Dev 0.8994
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

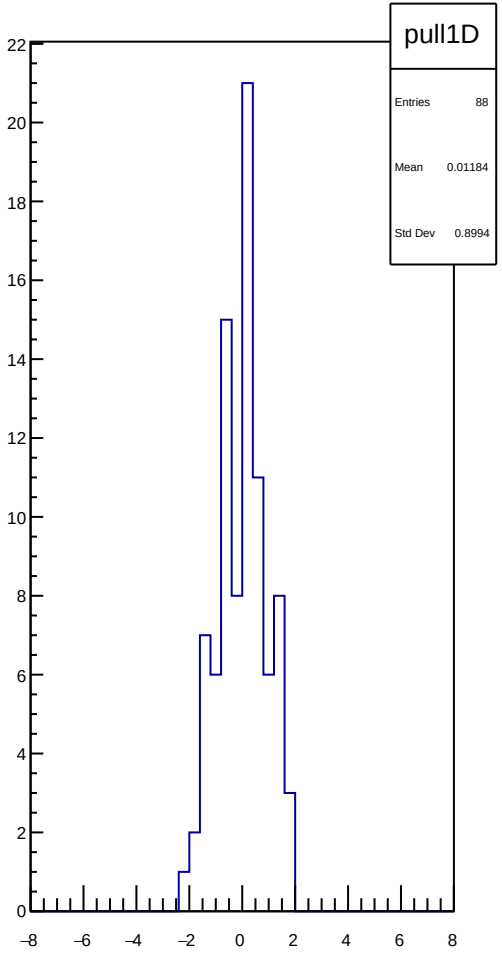

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3168 / 87
p0 465.8 ± 0.3625
520
500
480
460
440
420

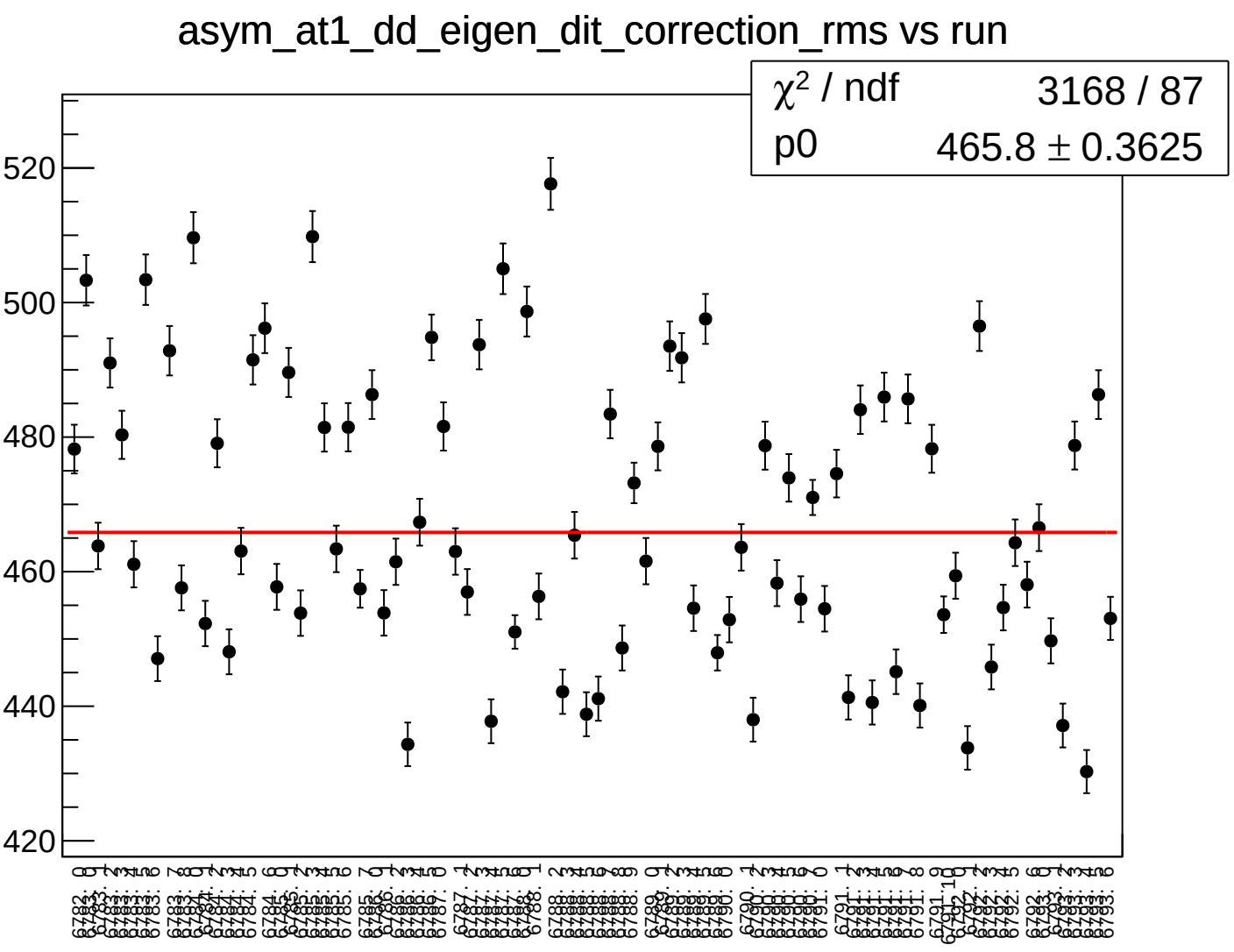

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 95.97 / 87
p0 875.7 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 3622
Std Dev 0
2
1
0
−1
−2

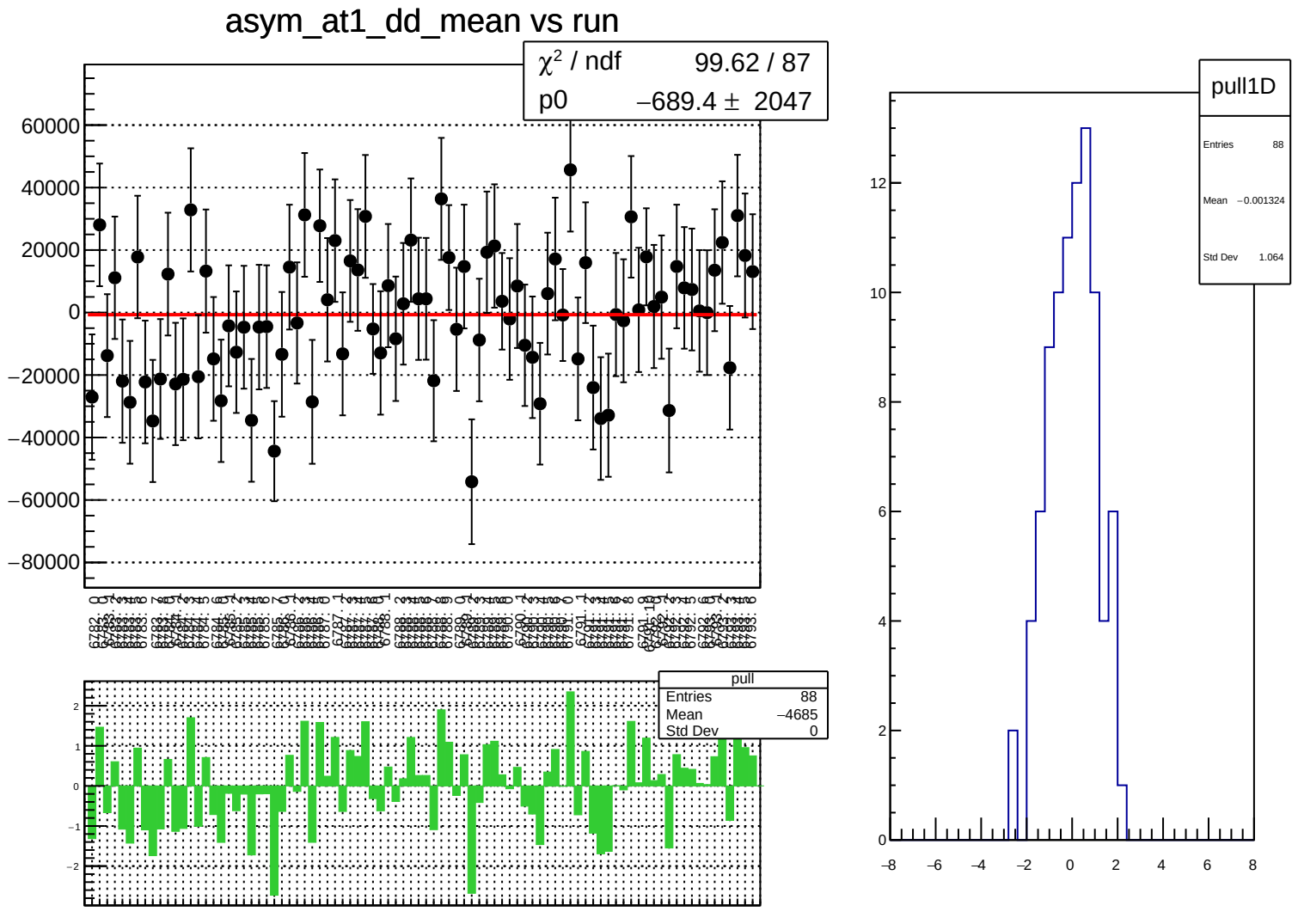

pull1D
Entries 88
Mean 0.001538
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

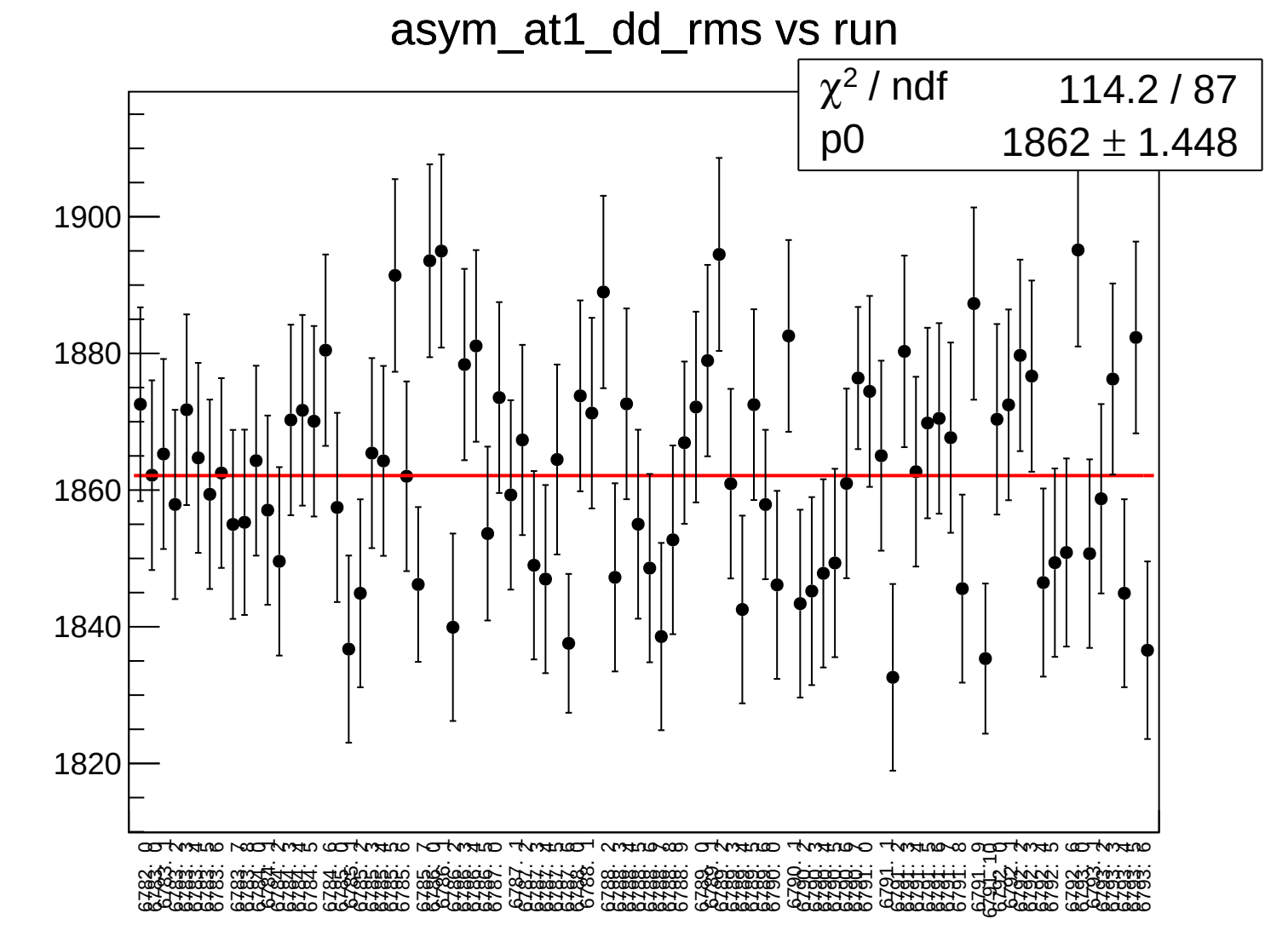

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 96.54 / 87
p0 1803 ± 1.402
1860
1840
1820
1800
1780
1760

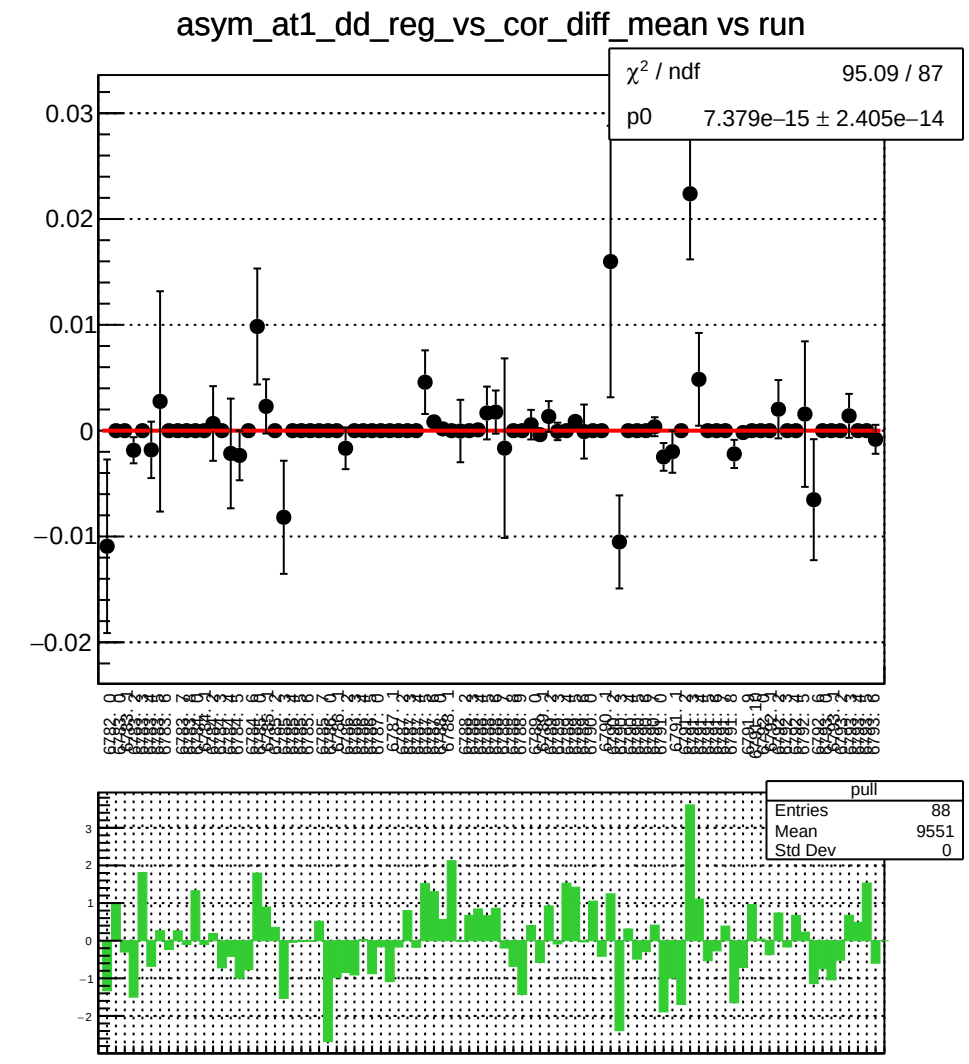

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.2 / 87
p0 1560 ± 512.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −267.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

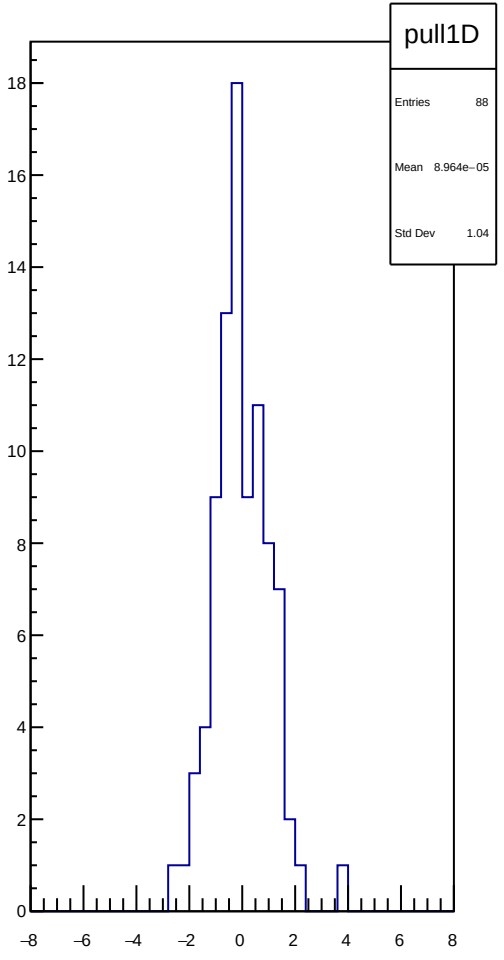

pull1D
Entries 88
Mean 0.01184
Std Dev 0.8994
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

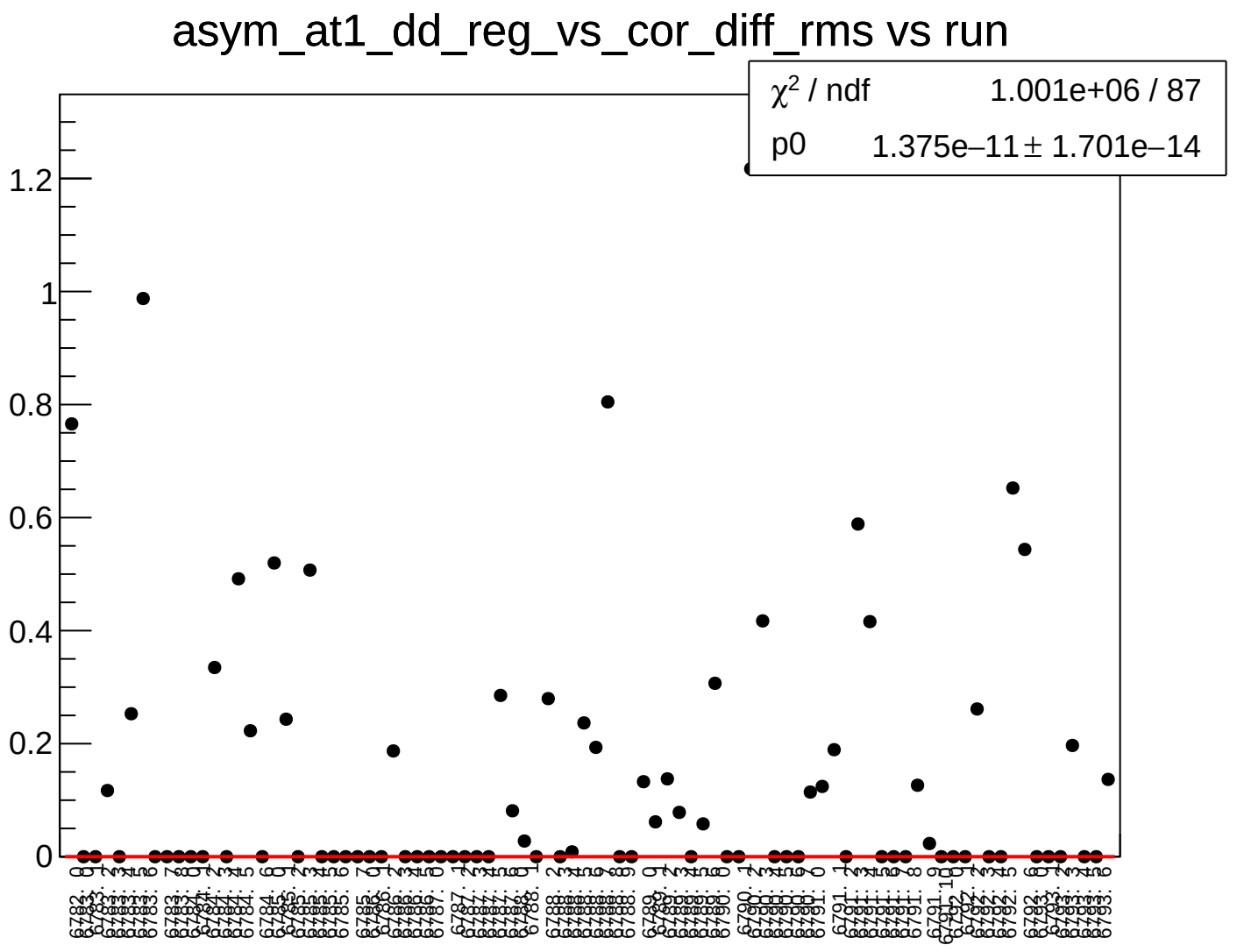

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3168 / 87
p0 465.8 ± 0.3625
520
500
480
460
440
420

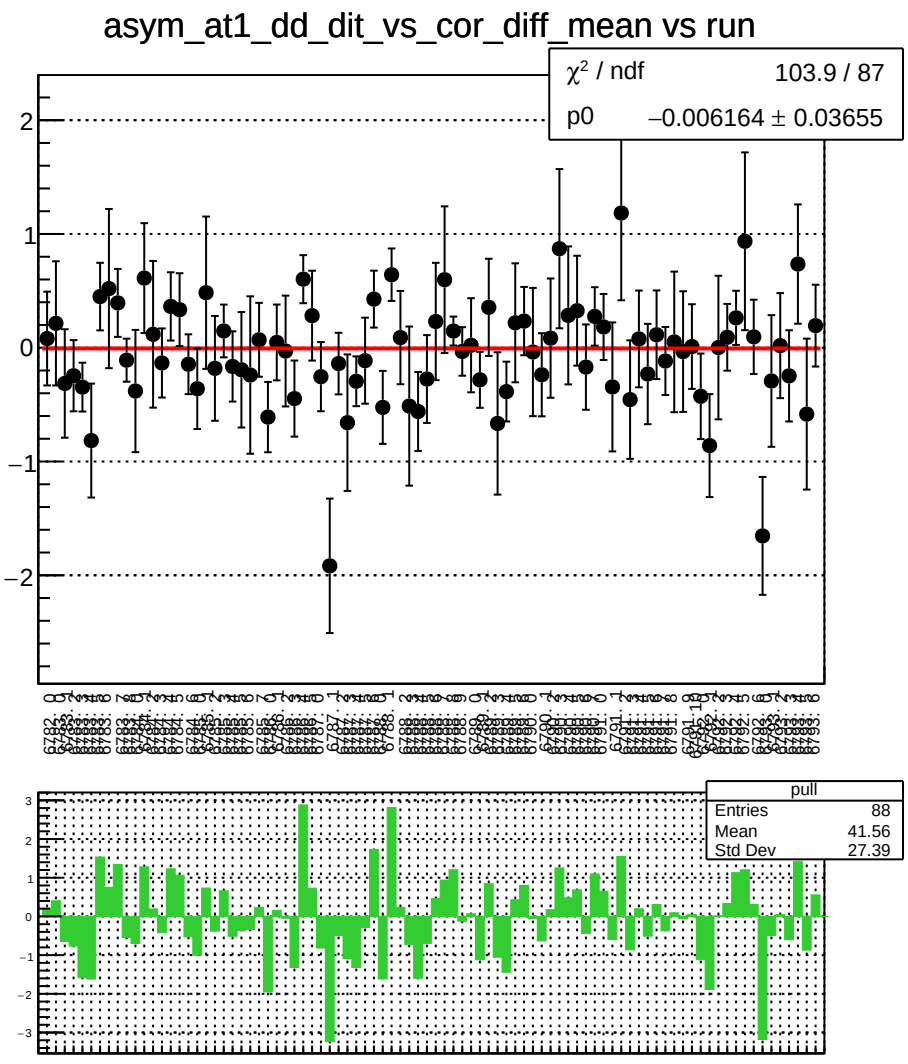

asym_at1_dd_mean vs run
χ² / ndf 99.62 / 87
p0 −689.4 ± 2047
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −4685
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001324
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

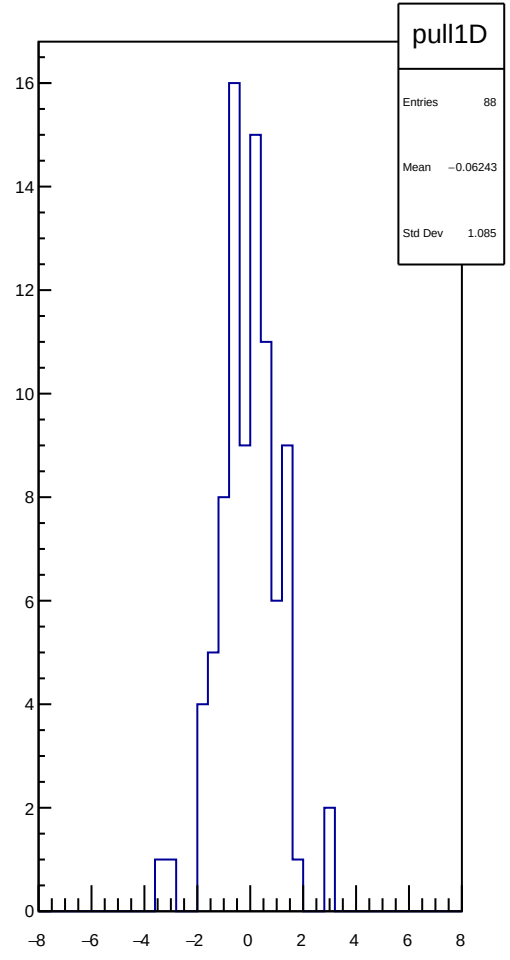

asym_at1_dd_rms vs run
χ^2 / ndf 114.2 / 87
p0 1862 ± 1.448
1900
1880
1860
1840
1820

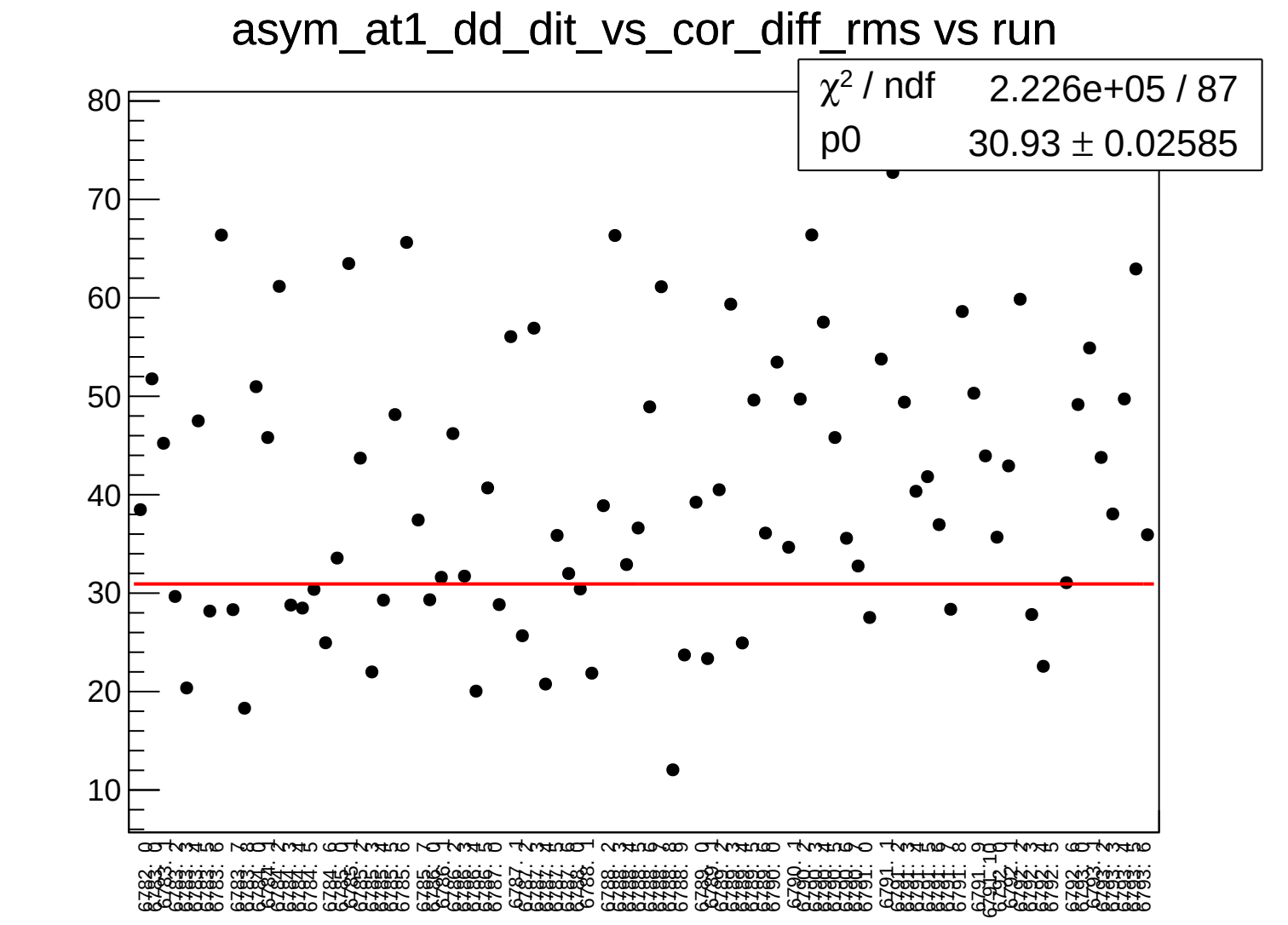

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.09 / 87
p0 7.379e−15 ± 2.405e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 9551
Std Dev 0
3
2
1
0
−1
−2

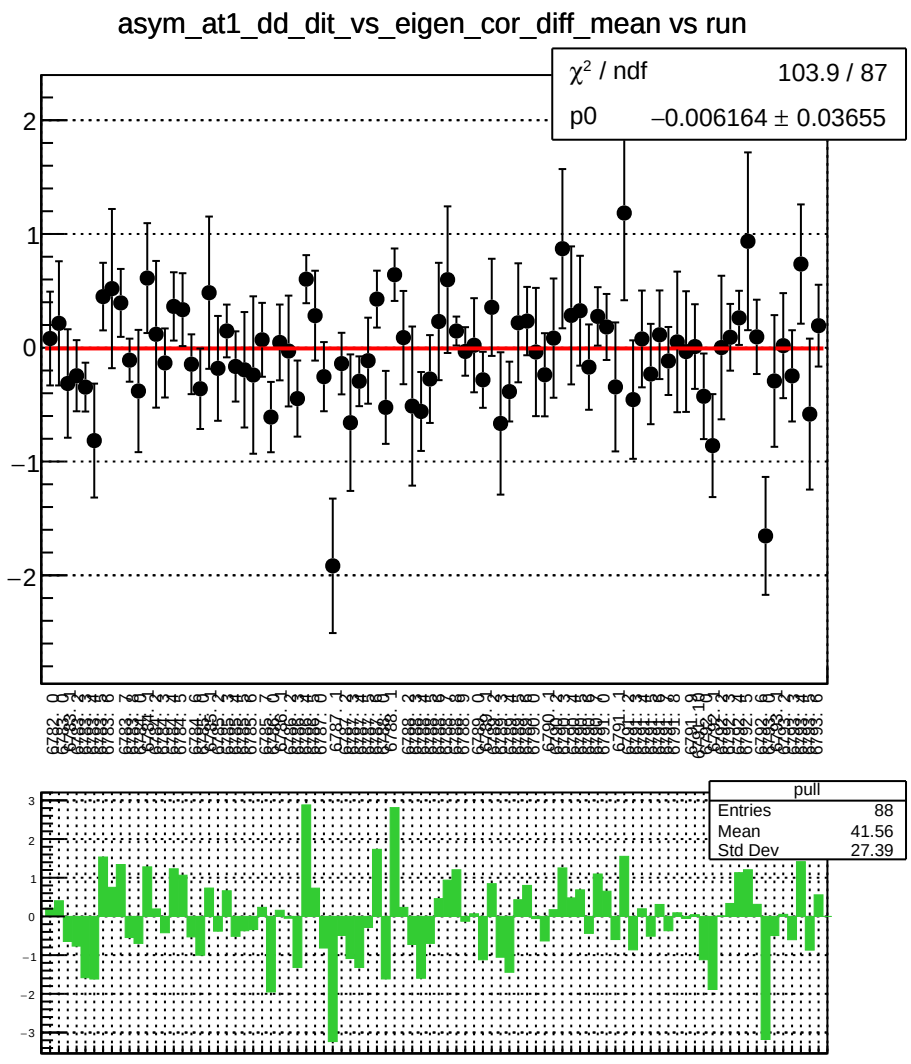

pull1D
Entries 88
Mean 8.964e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

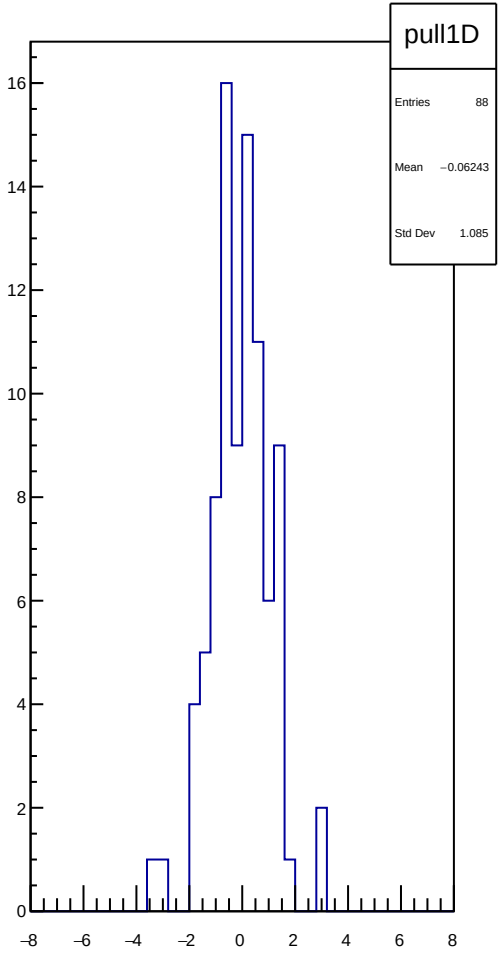

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 87
p0 1.375e−11 ± 1.701e−14
1.2
1
0.8
0.6
0.4
0.2
0

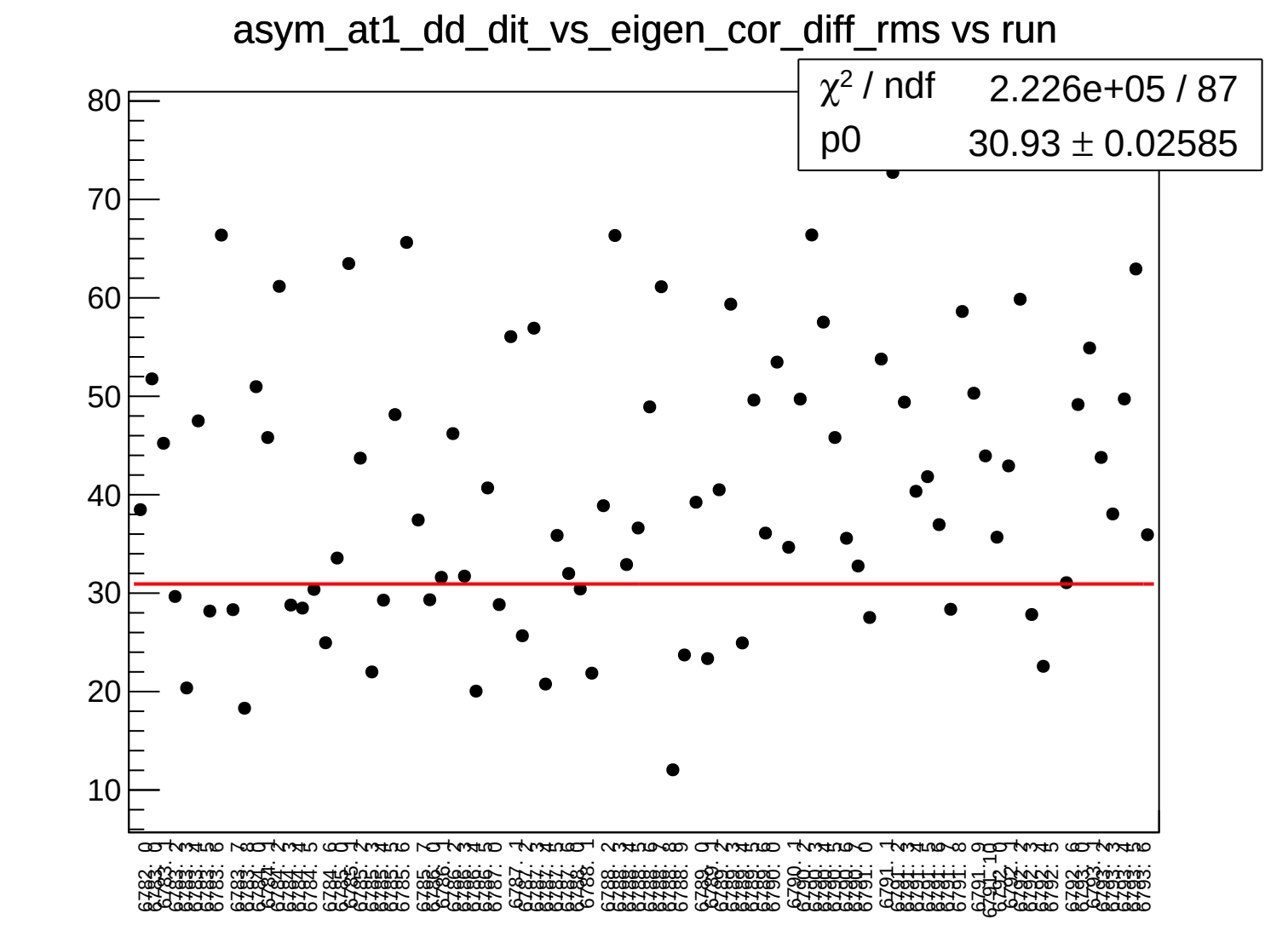

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 87
p0 −0.006164 ± 0.03655
pull
Entries 88
Mean 41.56
Std Dev 27.39

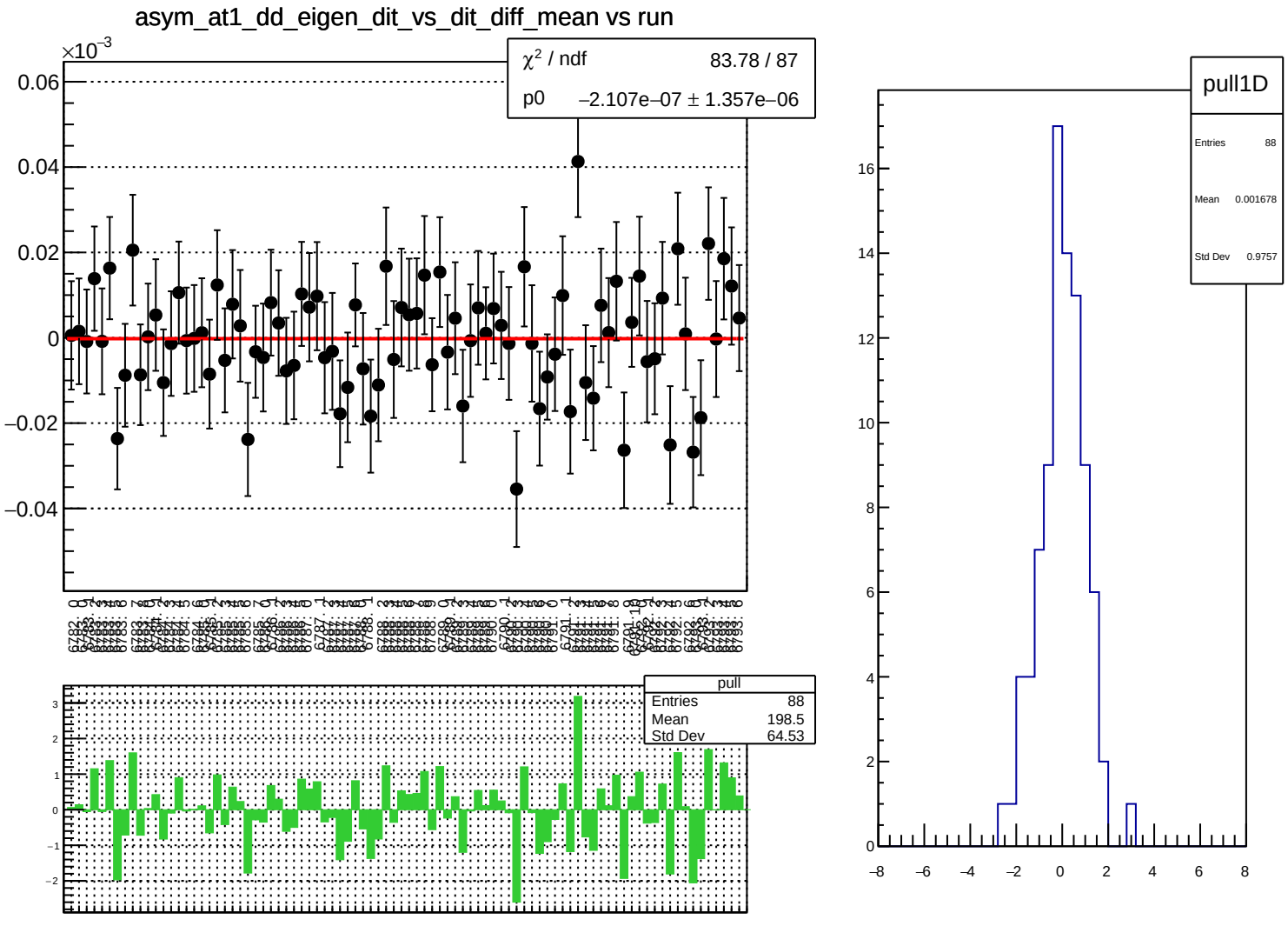

pull1D
Entries 88
Mean −0.06243
Std Dev 1.085

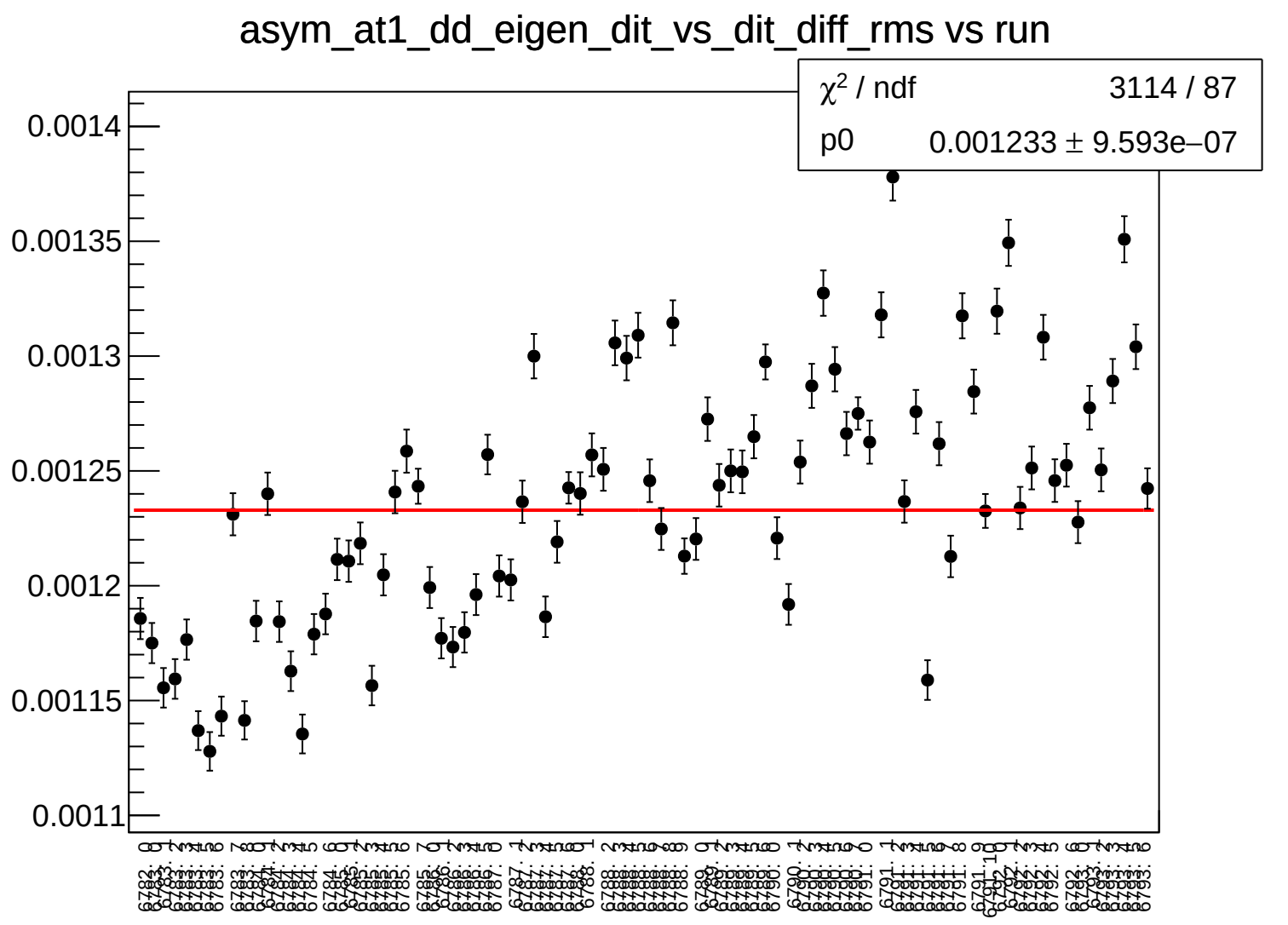

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.226e+05 / 87
p0 30.93 ± 0.02585
80
70
60
50
40
30
20
10

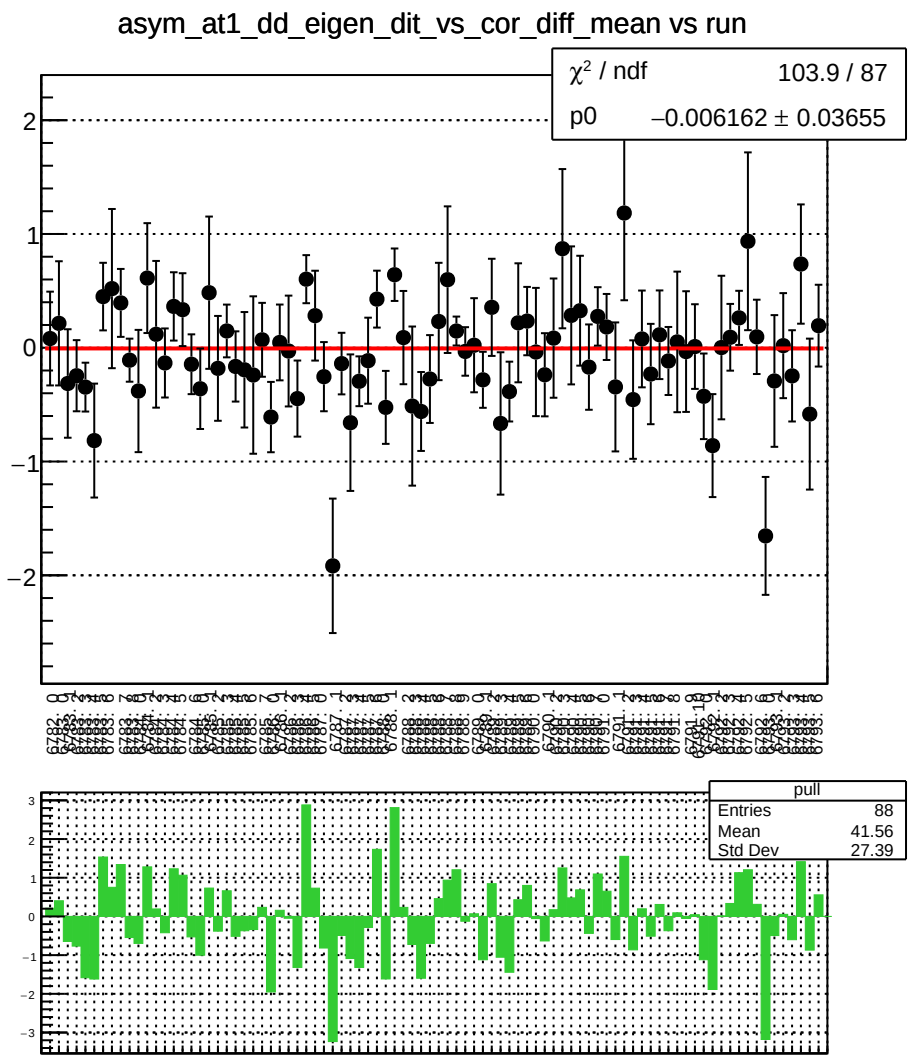

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 87
p0 −0.006164 ± 0.03655
pull
Entries 88
Mean 41.56
Std Dev 27.39

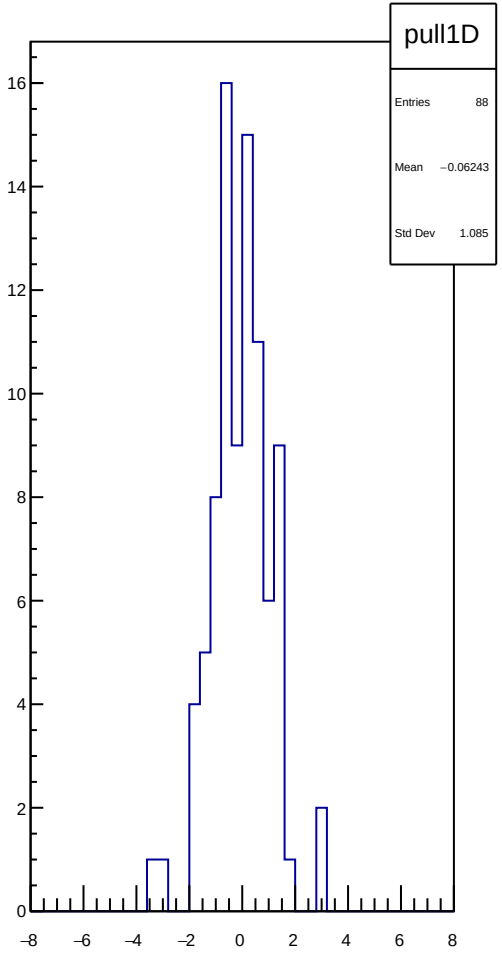

pull1D
Entries 88
Mean −0.06243
Std Dev 1.085

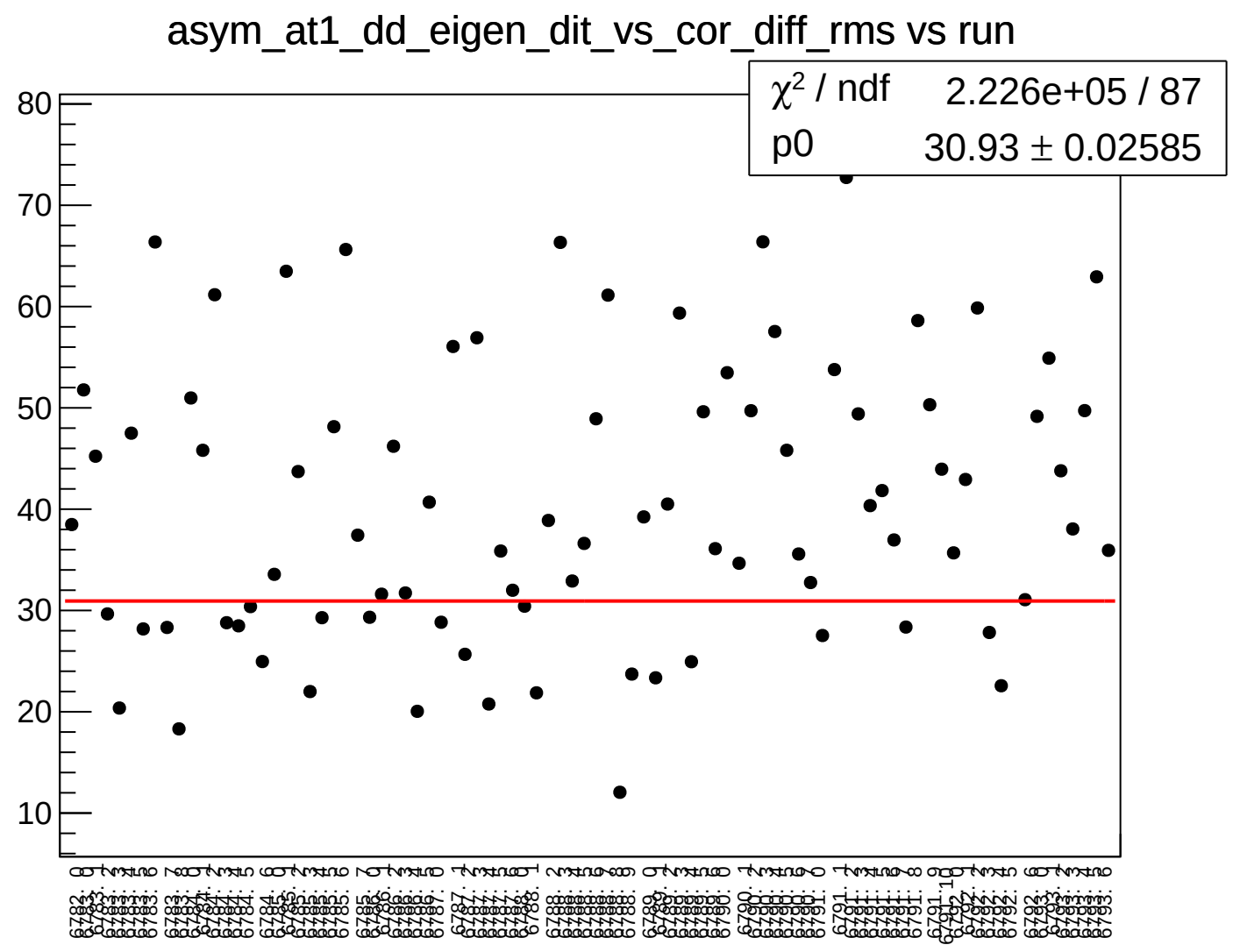

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.226e+05 / 87
p0 30.93 ± 0.02585
80
70
60
50
40
30
20
10

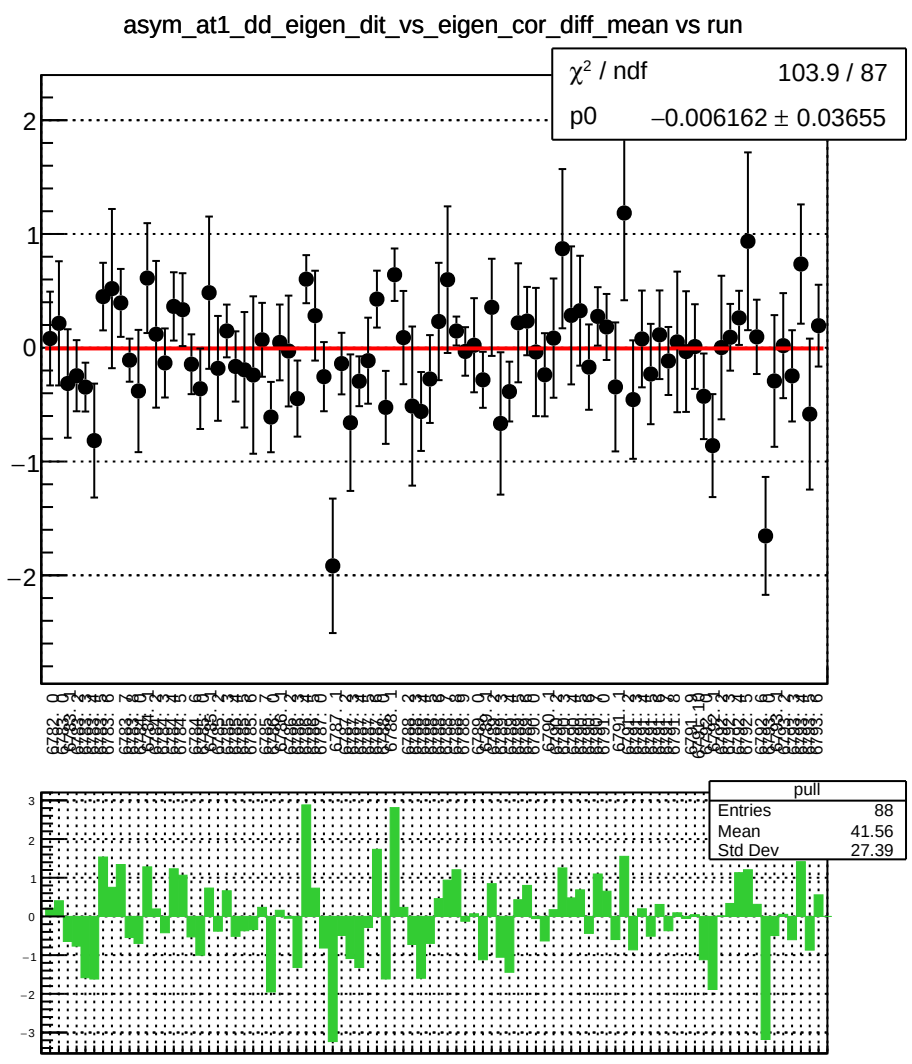

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.78 / 87
p0 −2.107e−07 ± 1.357e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 198.5
Std Dev 64.53
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001678
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

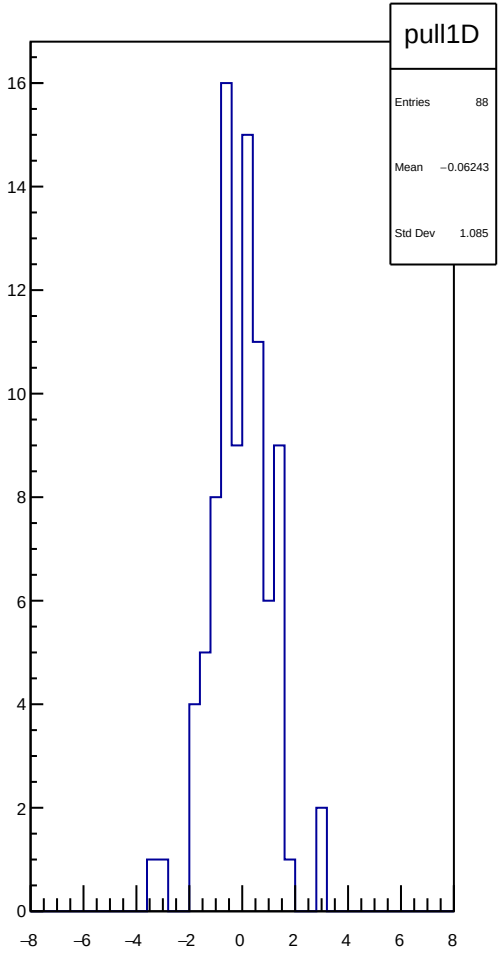

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3114 / 87
p0 0.001233 ± 9.593e−07
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

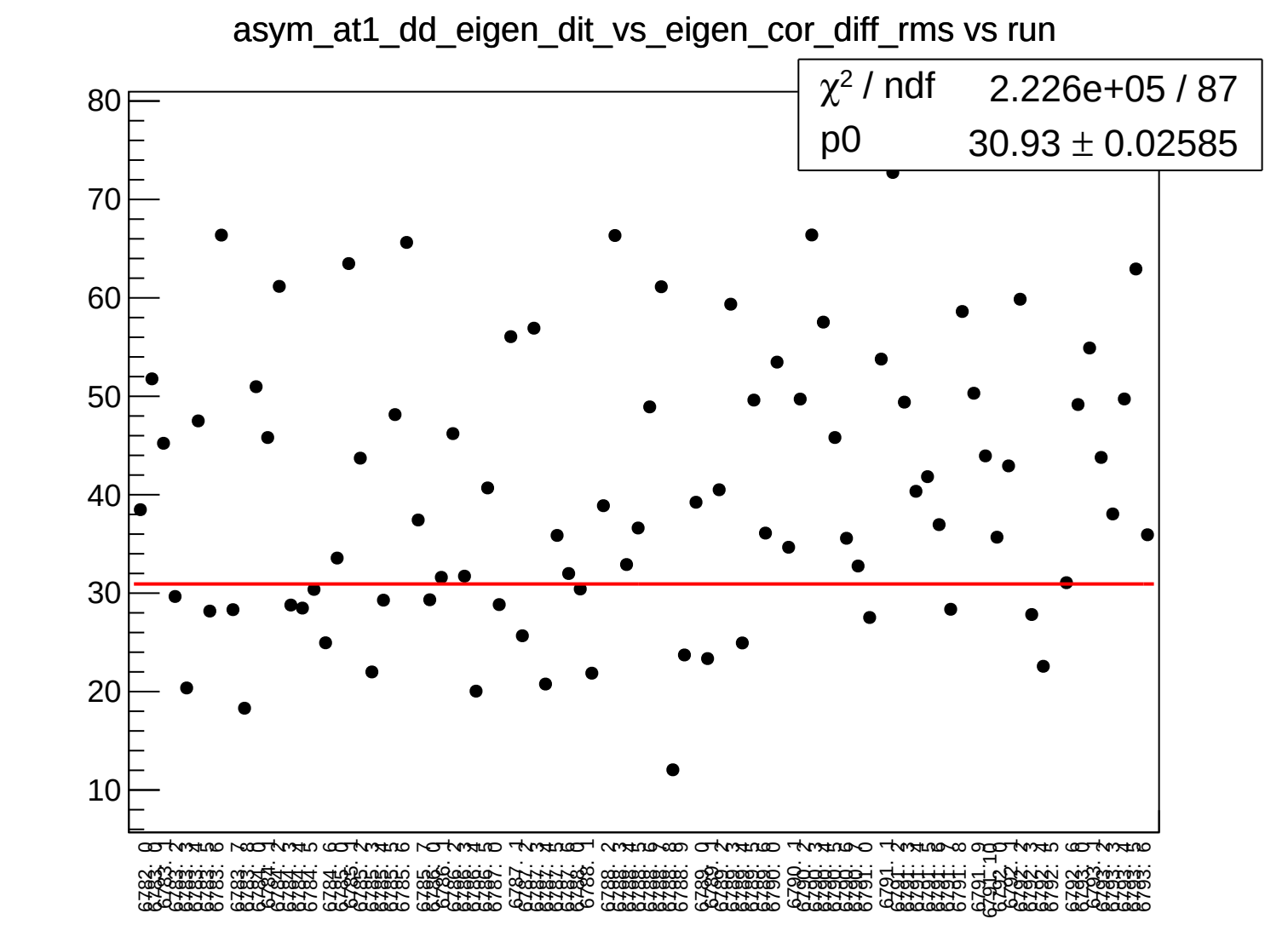

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 87
p0 −0.006162 ± 0.03655
pull
Entries 88
Mean 41.56
Std Dev 27.39

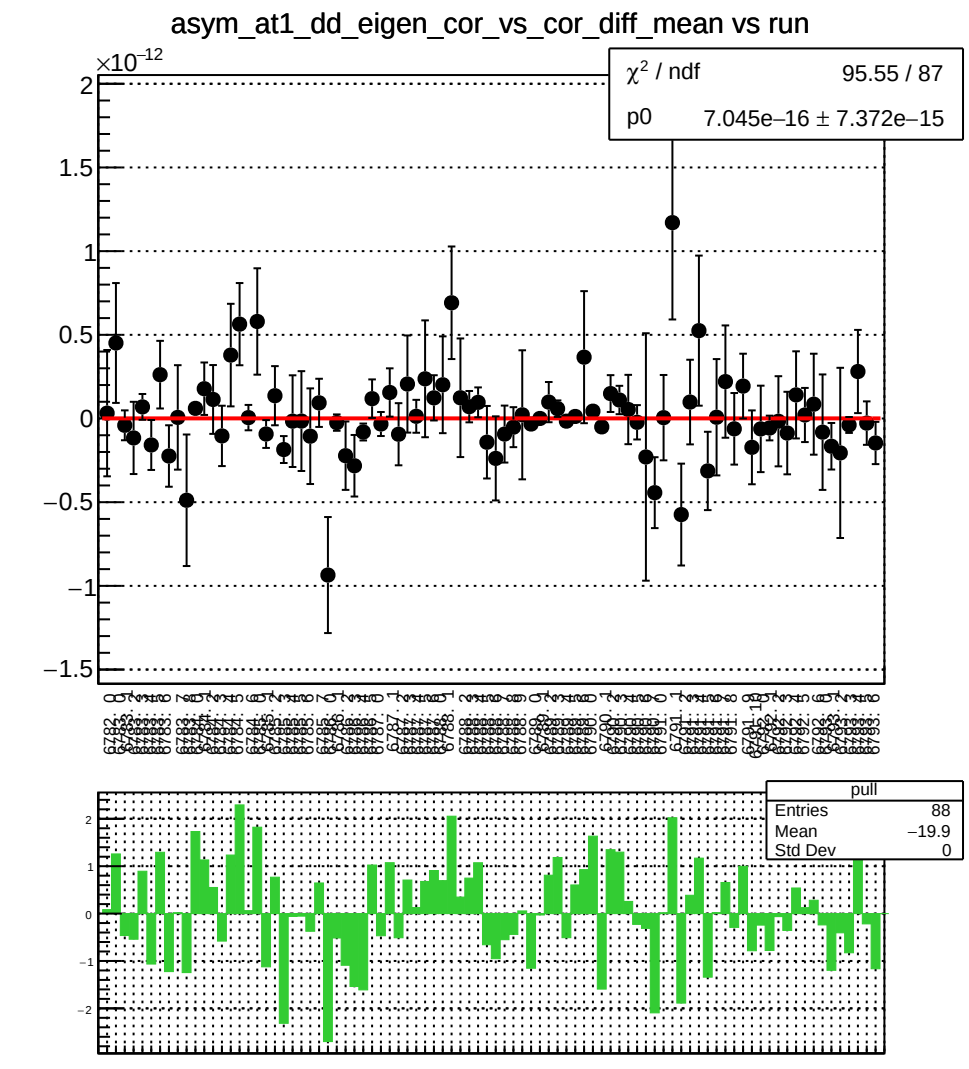

pull1D
Entries 88
Mean −0.06243
Std Dev 1.085

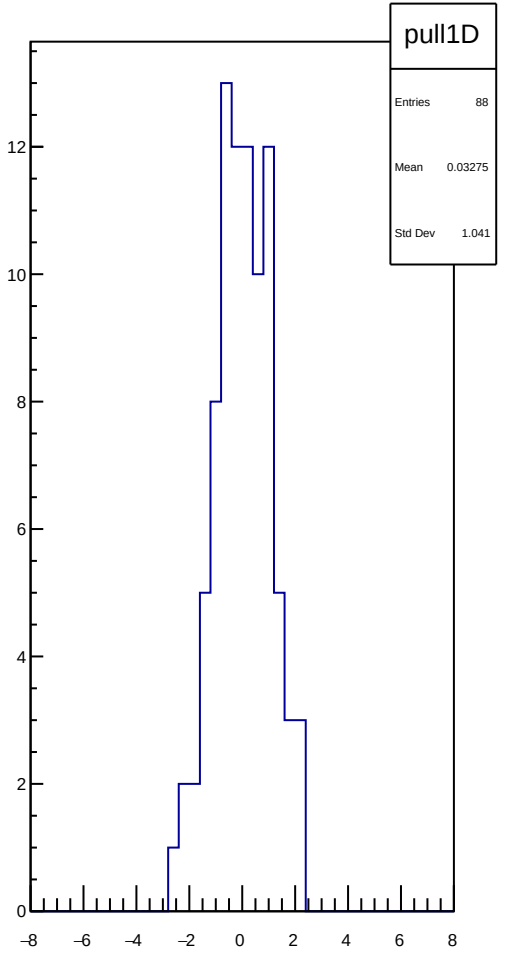

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.226e+05 / 87
p0 30.93 ± 0.02585
80
70
60
50
40
30
20
10

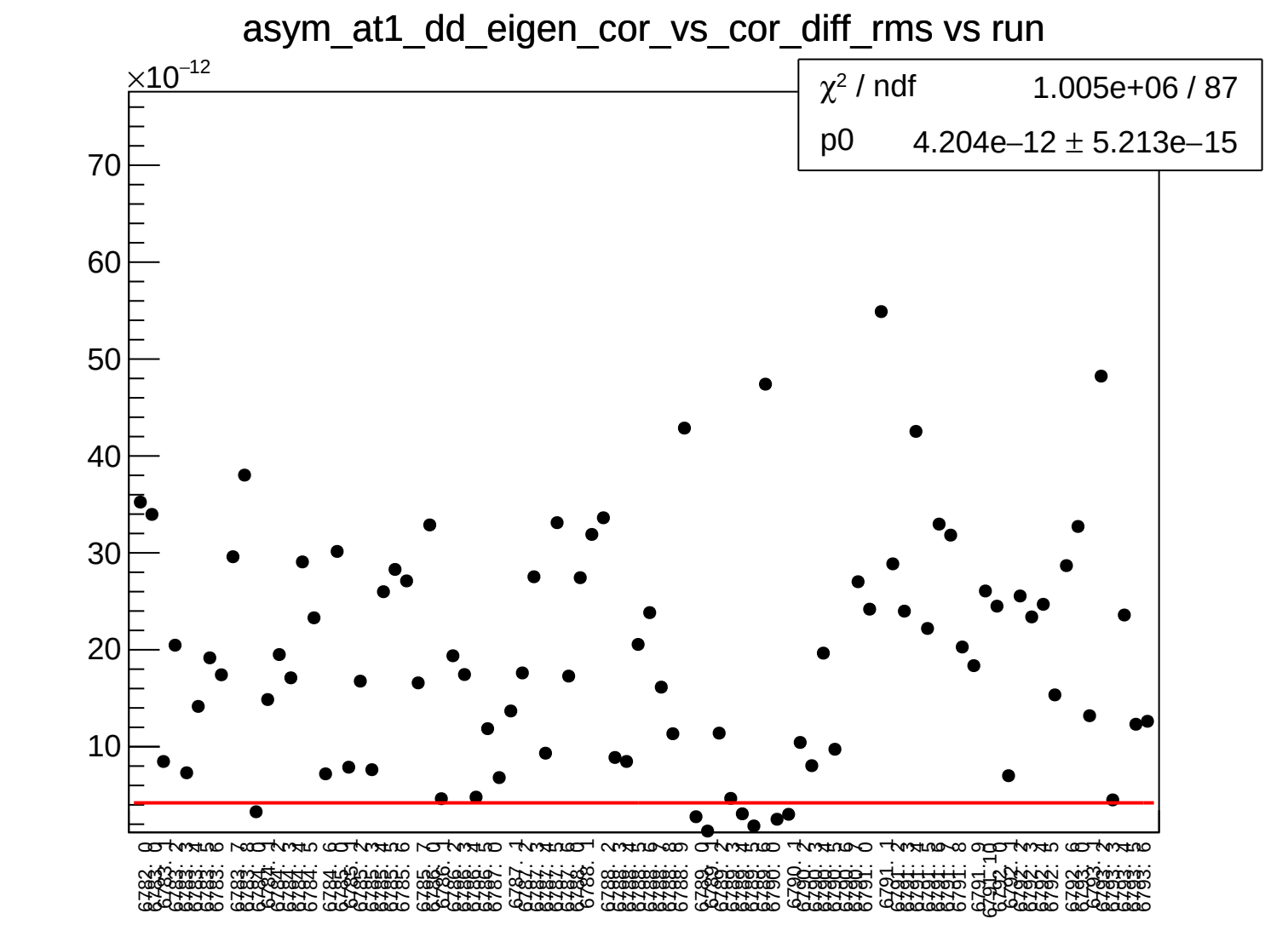

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 87
p0 −0.006162 ± 0.03655
pull
Entries 88
Mean 41.56
Std Dev 27.39

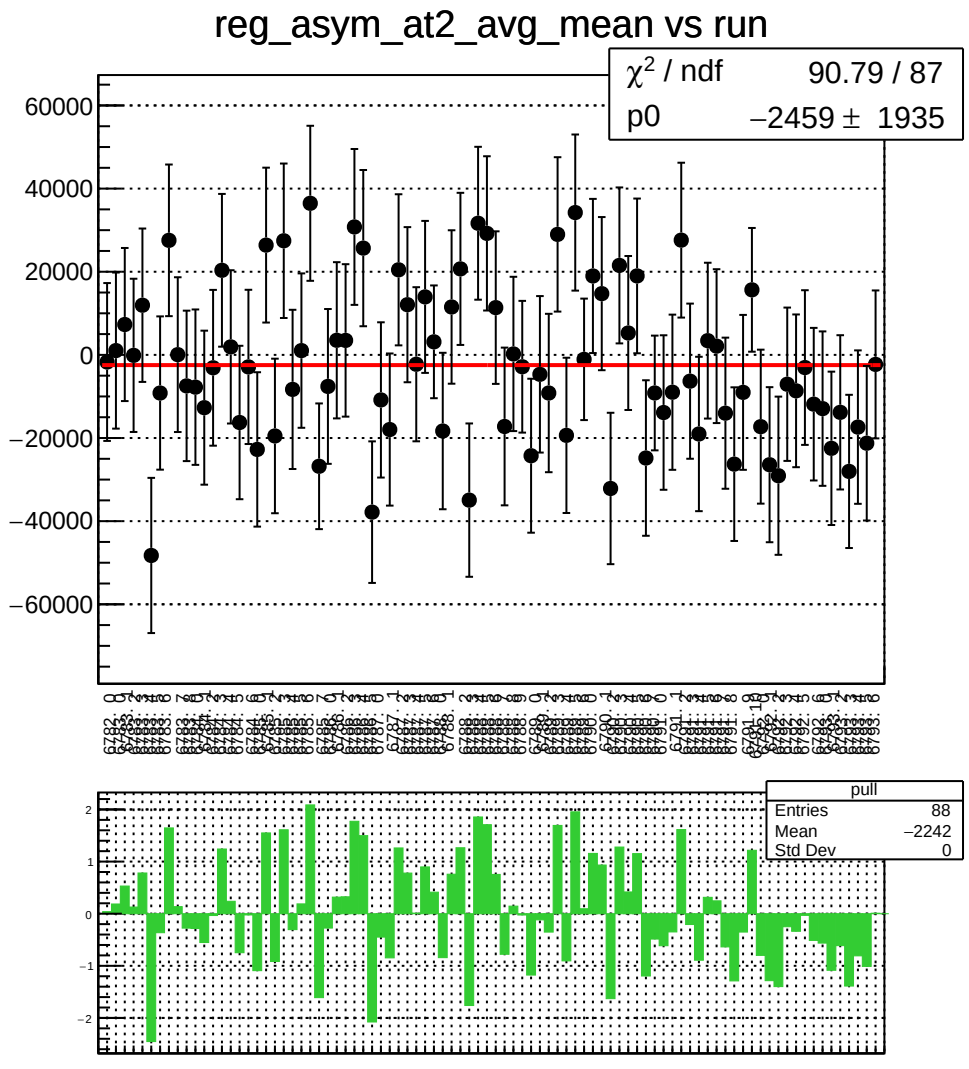

pull1D
Entries 88
Mean −0.06243
Std Dev 1.085

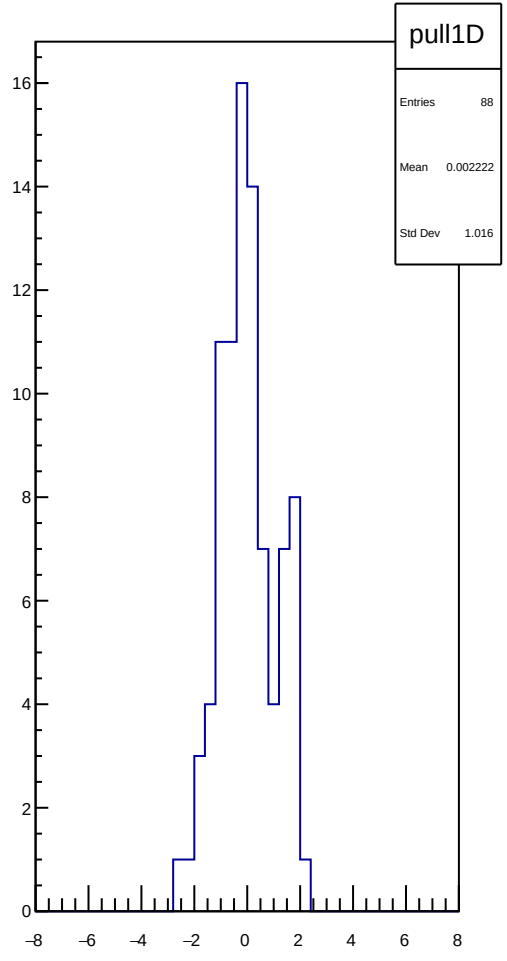

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.226e+05 / 87
p0 30.93 ± 0.02585
80
70
60
50
40
30
20
10

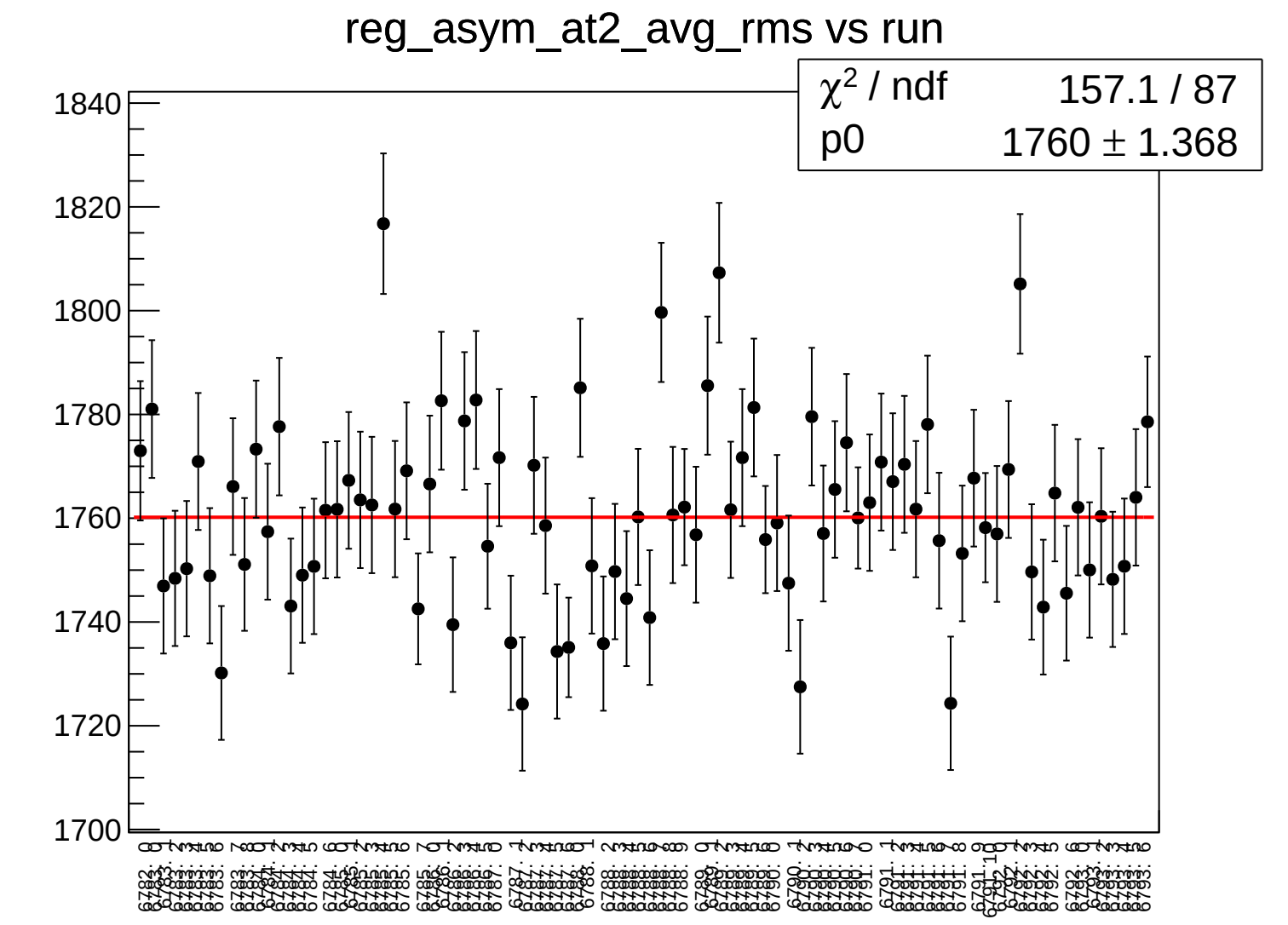

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.55 / 87
p0 7.045e−16 ± 7.372e−15
pull
Entries 88
Mean −19.9
Std Dev 0

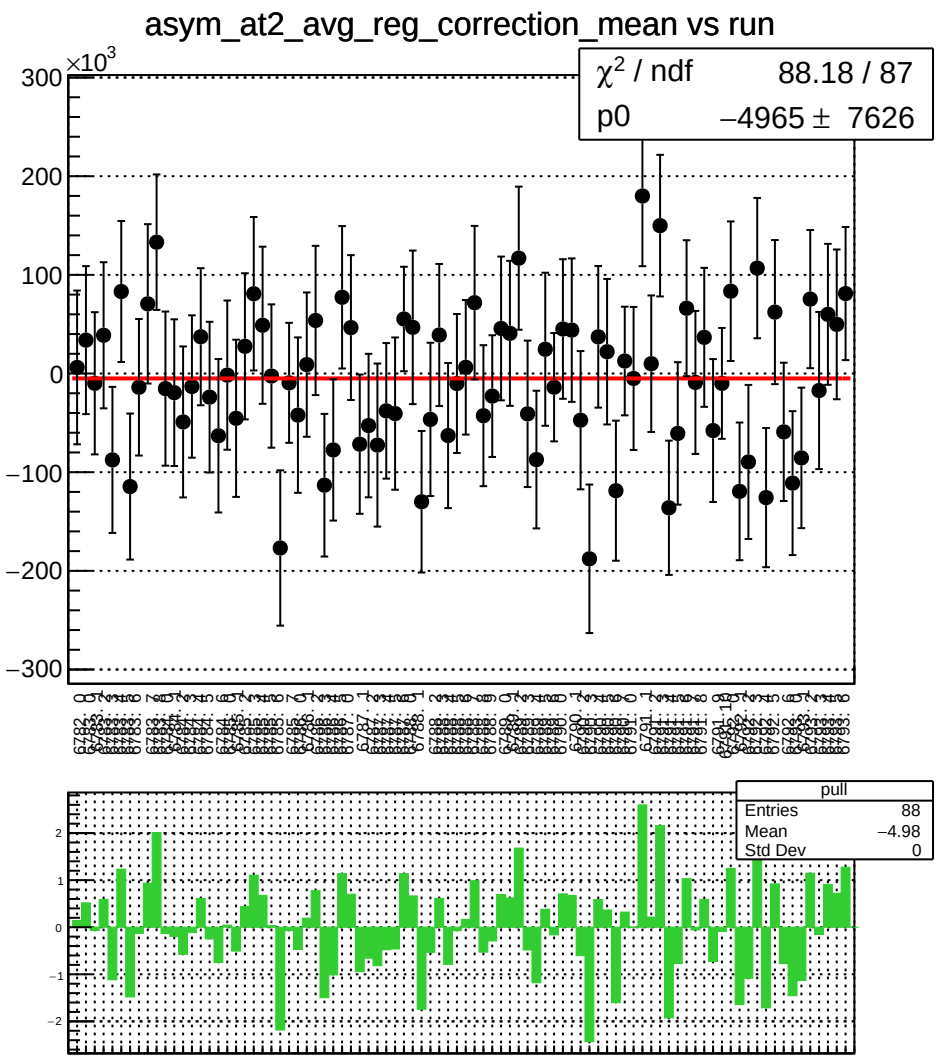

pull1D
Entries 88
Mean 0.03275
Std Dev 1.041

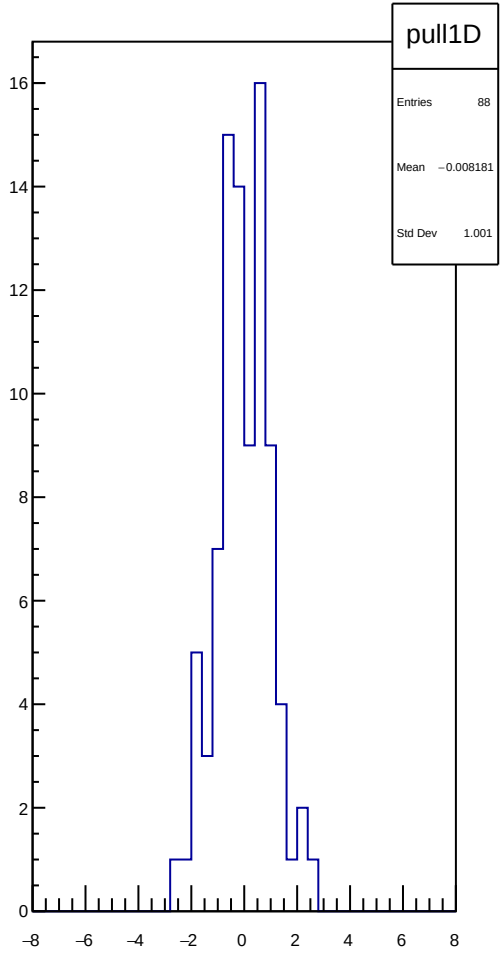

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.005e+06 / 87
p0 4.204e−12 ± 5.213e−15
70
60
50
40
30
20
10


reg_asym_at2_avg_mean vs run
χ² / ndf 90.79 / 87
p0 −2459 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2242
Std Dev 0
2
1
0
−1
−2

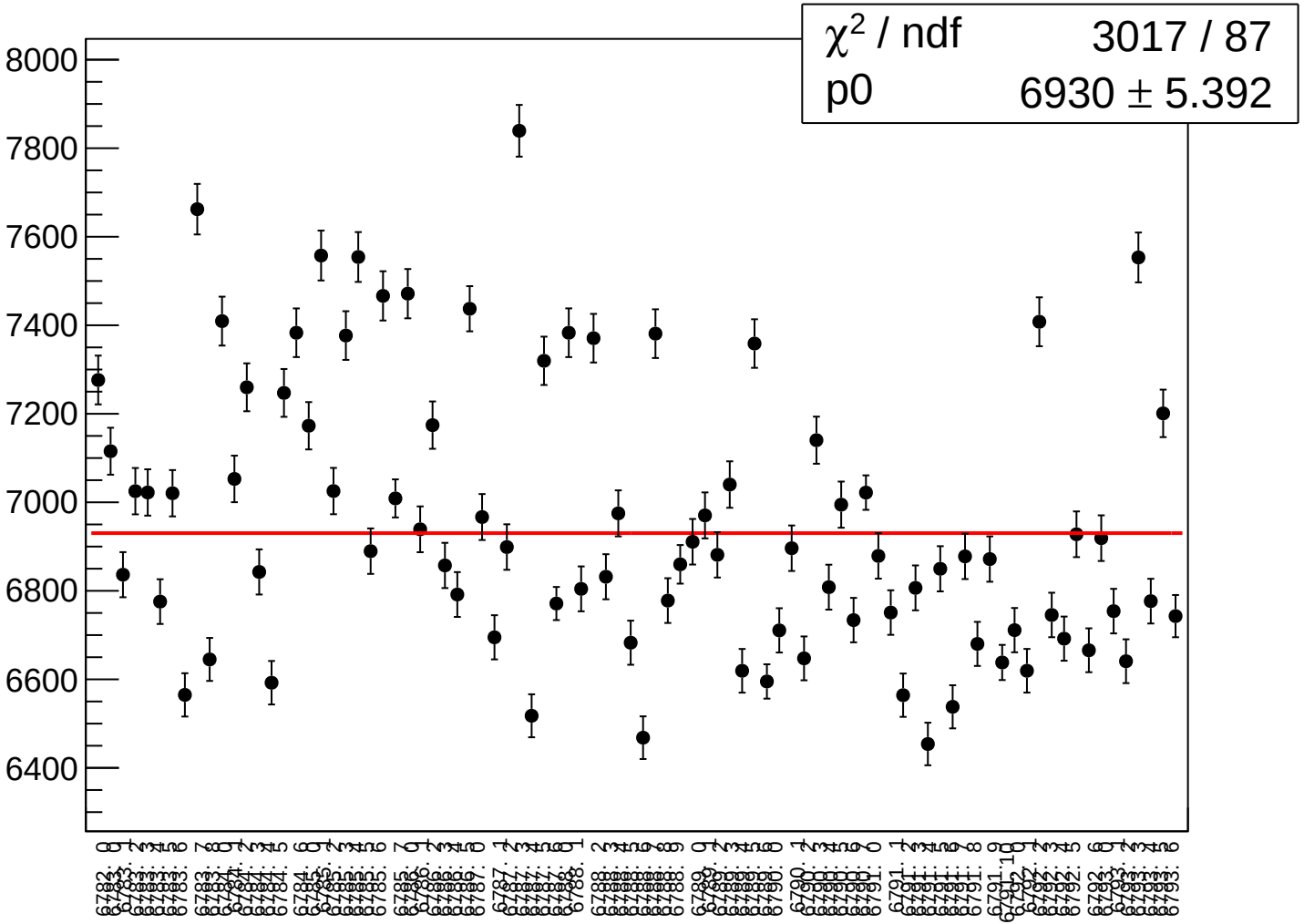

pull1D
Entries 88
Mean 0.002222
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

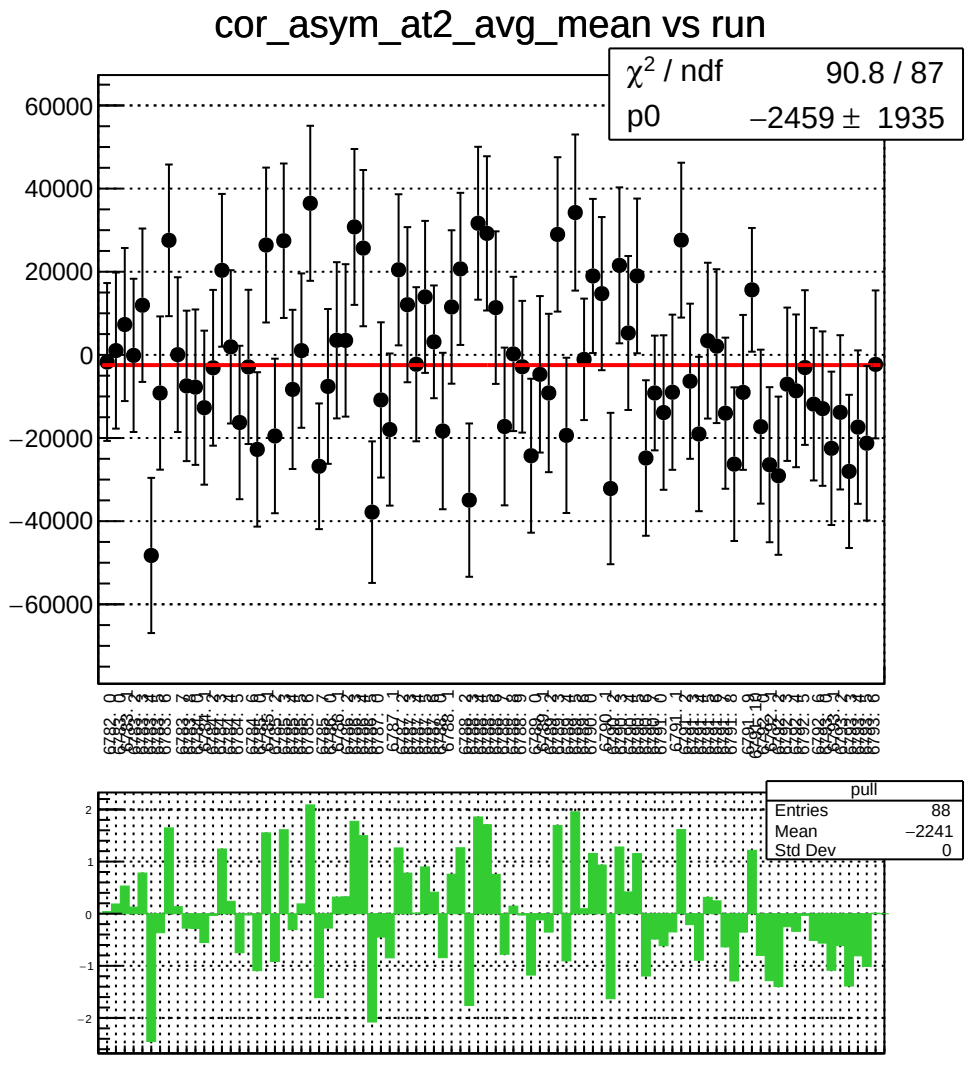

reg_asym_at2_avg_rms vs run
χ² / ndf 157.1 / 87
p0 1760 ± 1.368
1840
1820
1800
1780
1760
1740
1720
1700

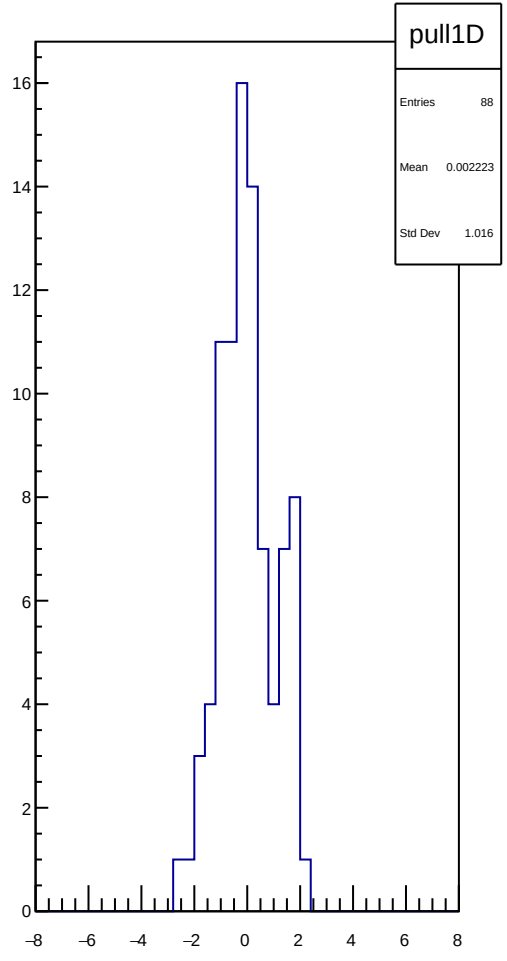

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 88.18 / 87
p0 −4965 ± 7626
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −4.98
Std Dev 0
2
1
0
−1
−2

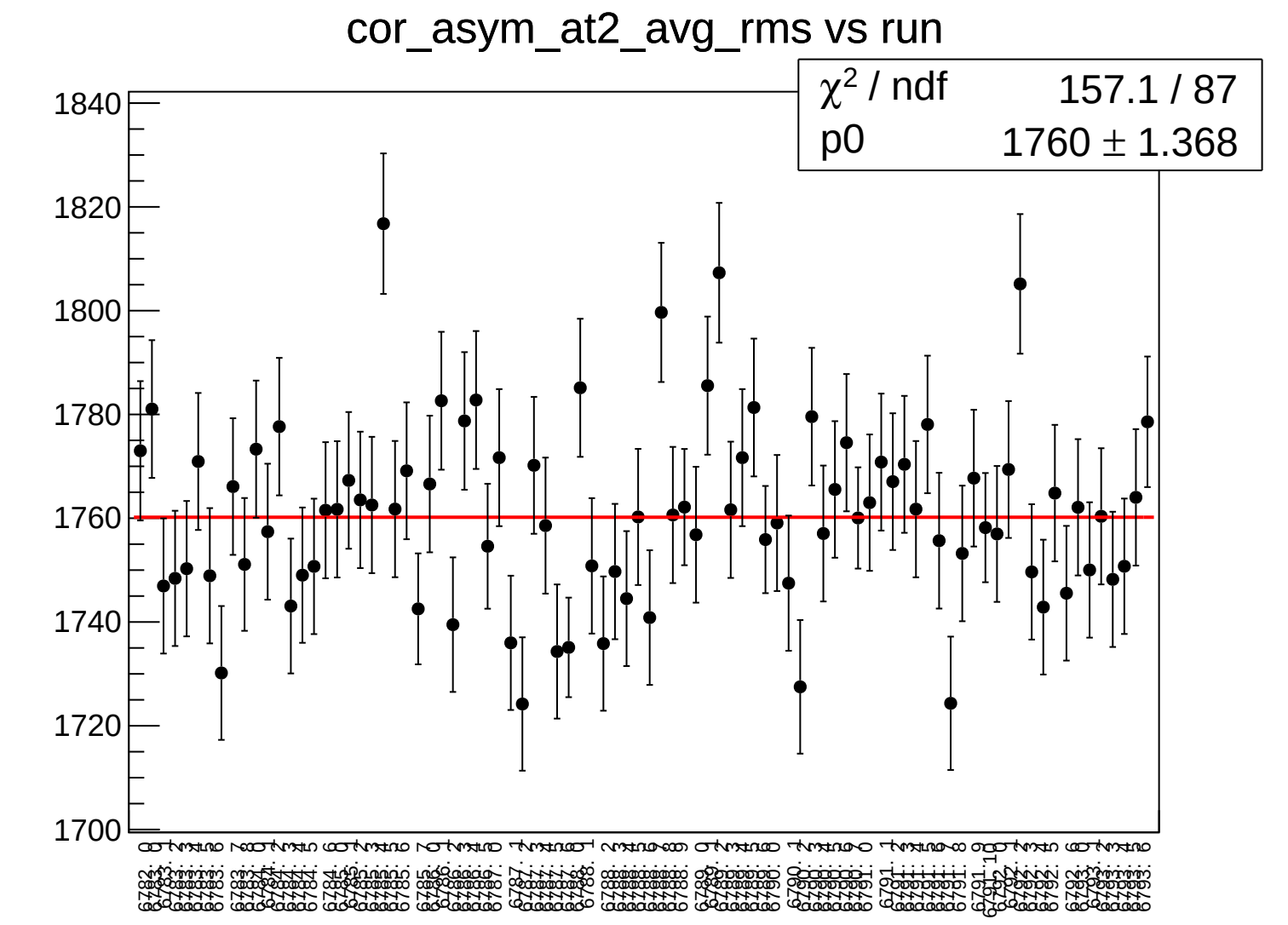

pull1D
Entries 88
Mean −0.008181
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

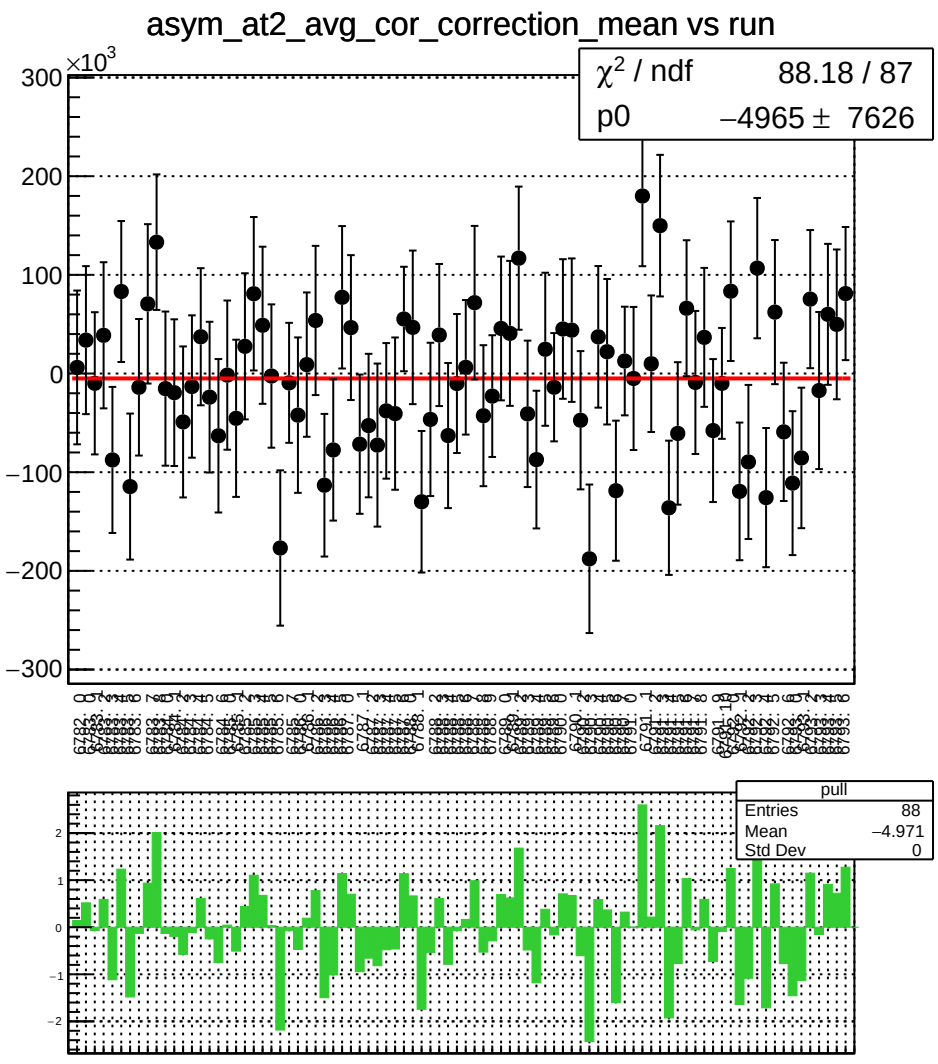
asym_at2_avg_reg_correction_rms vs run

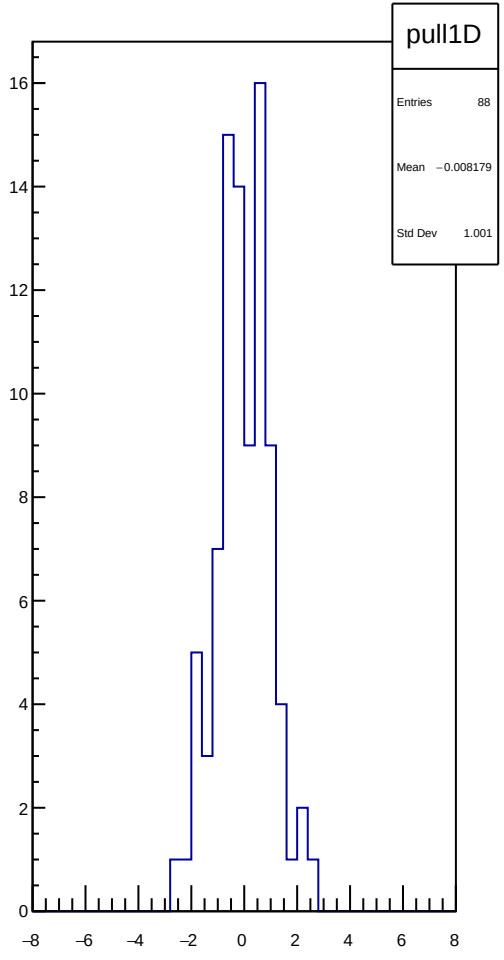


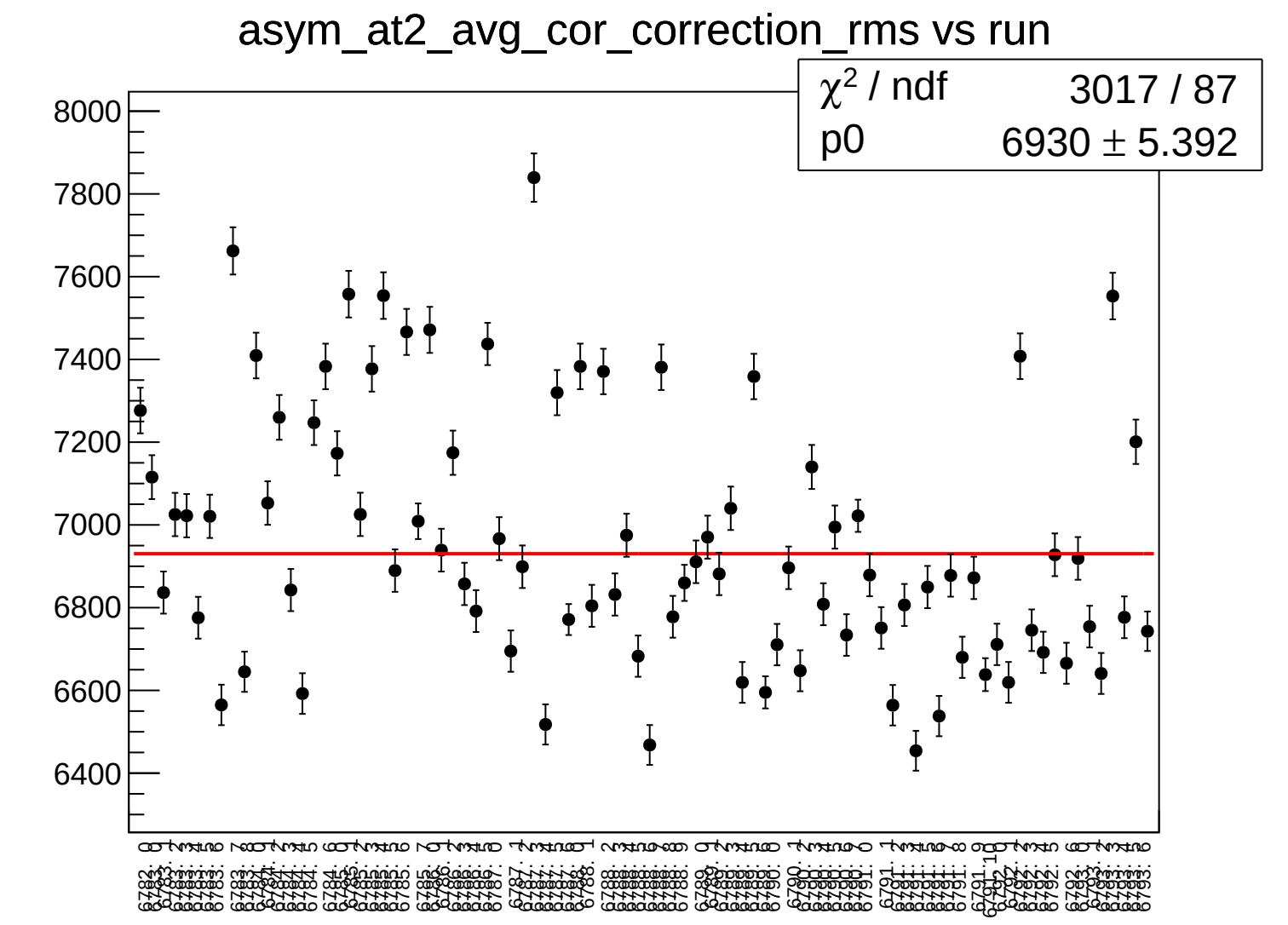

cor_asym_at2_avg_mean vs run
χ² / ndf 90.8 / 87
p0 −2459 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2241
Std Dev 0
2
1
0
−1
−2

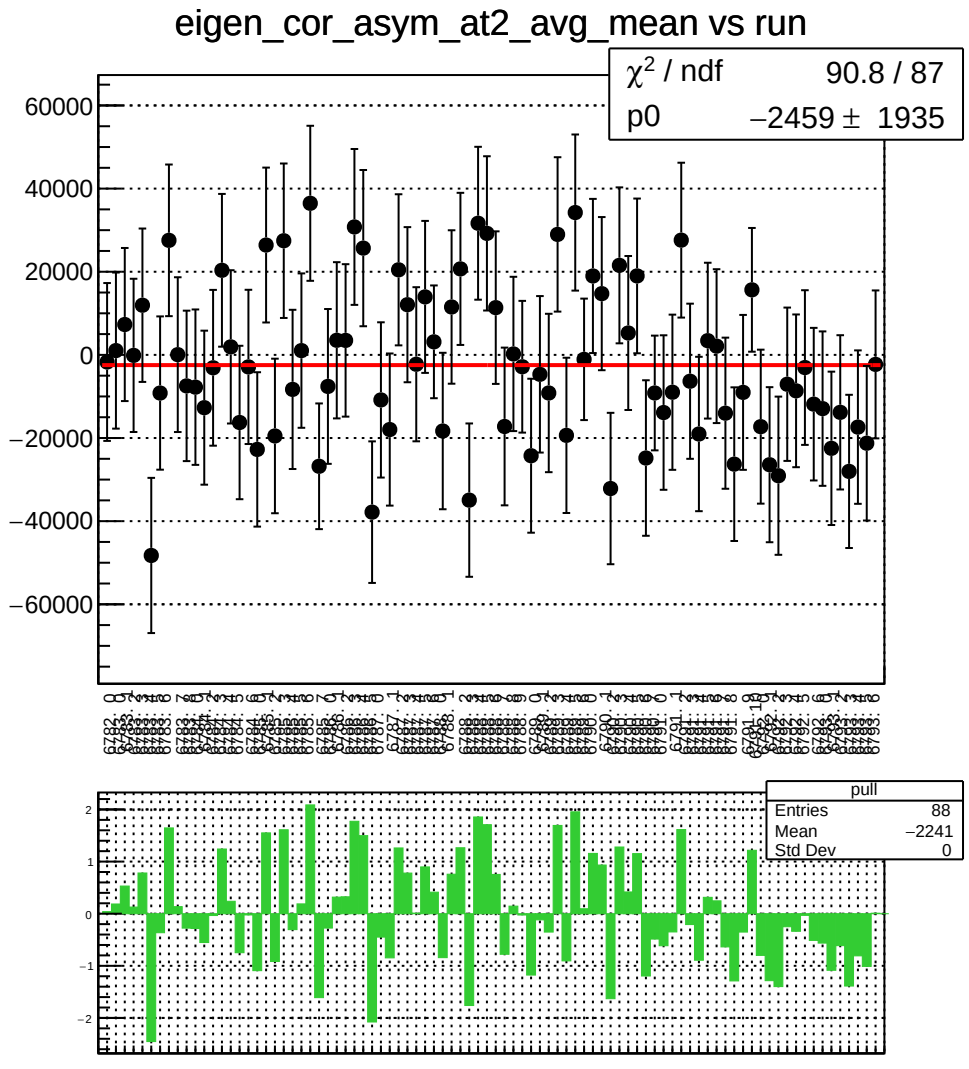

pull1D
Entries 88
Mean 0.002223
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

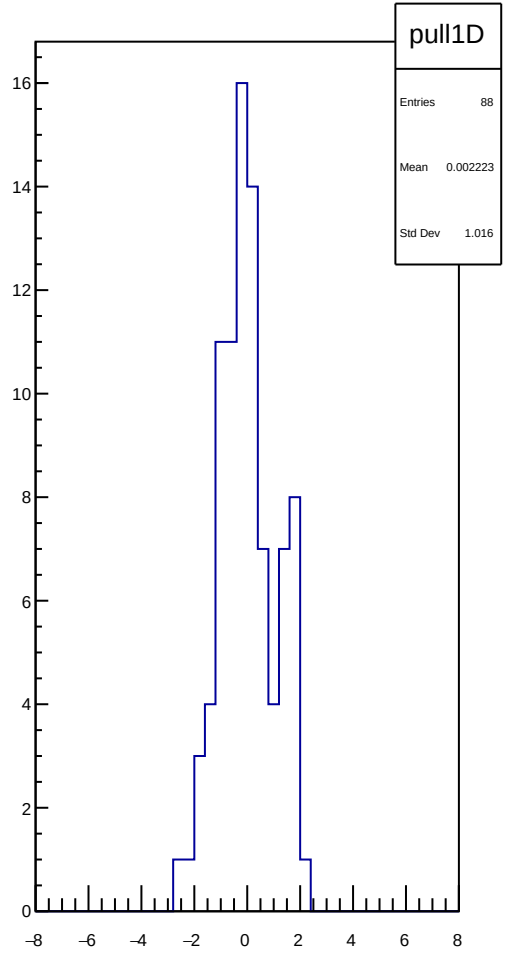

cor_asym_at2_avg_rms vs run
χ² / ndf 157.1 / 87
p0 1760 ± 1.368
1840
1820
1800
1780
1760
1740
1720
1700

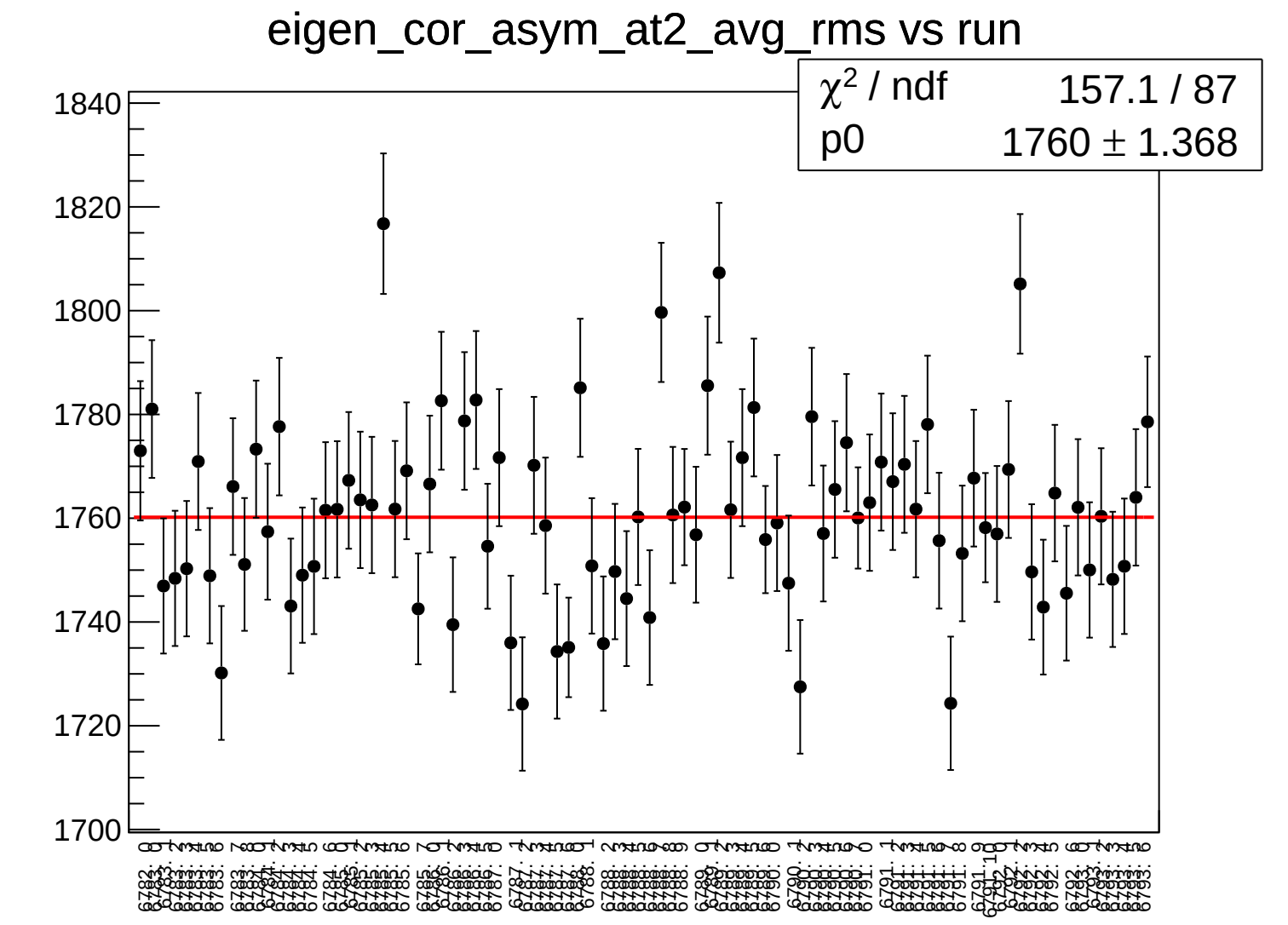

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 88.18 / 87
p0 −4965 ± 7626
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −4.971
Std Dev 0
2
1
0
−1
−2

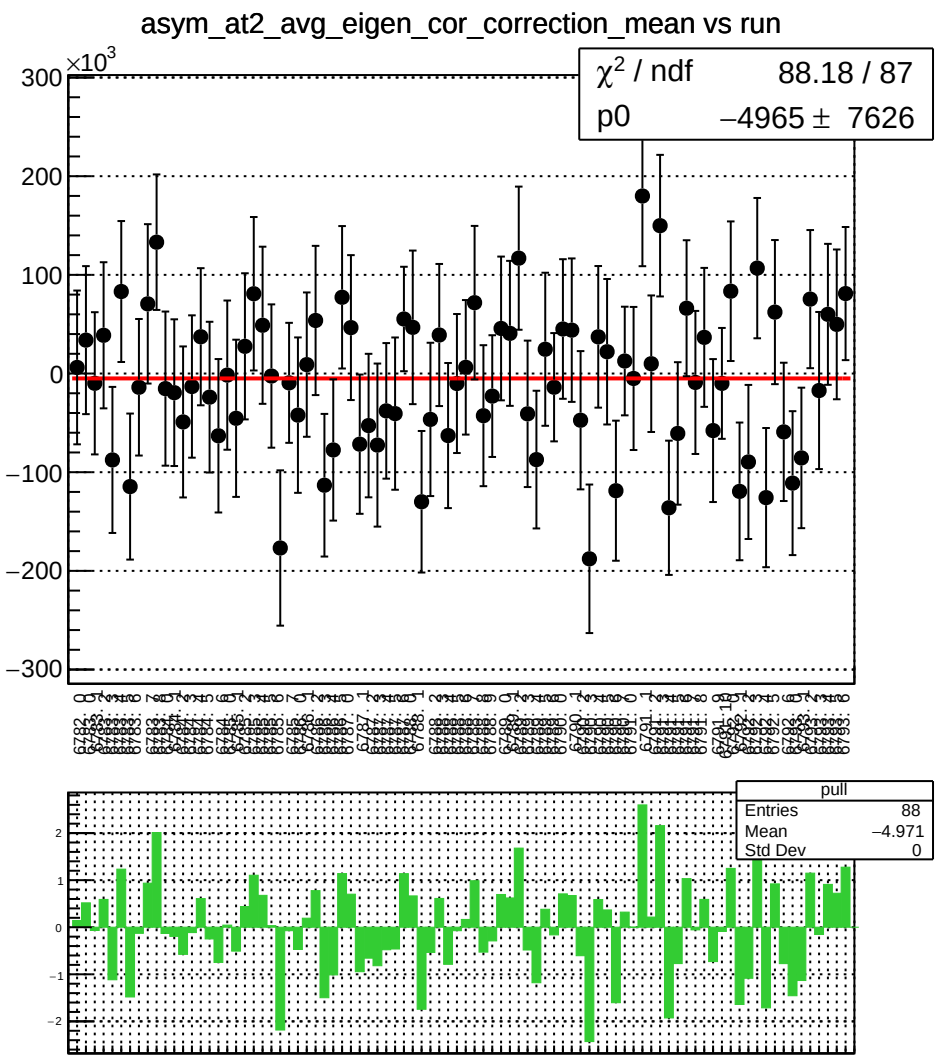

pull1D
Entries 88
Mean −0.008179
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

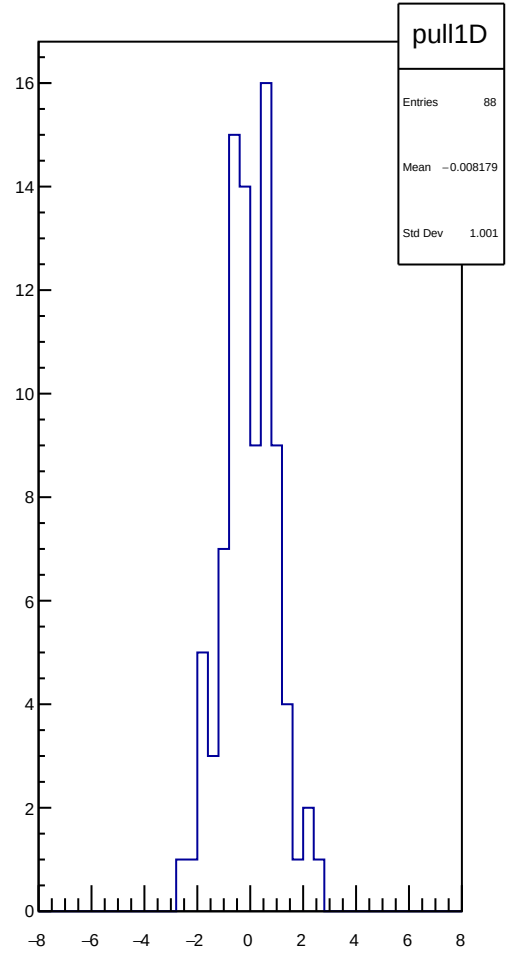

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3017 / 87
p0 6930 ± 5.392
8000
7800
7600
7400
7200
7000
6800
6600
6400

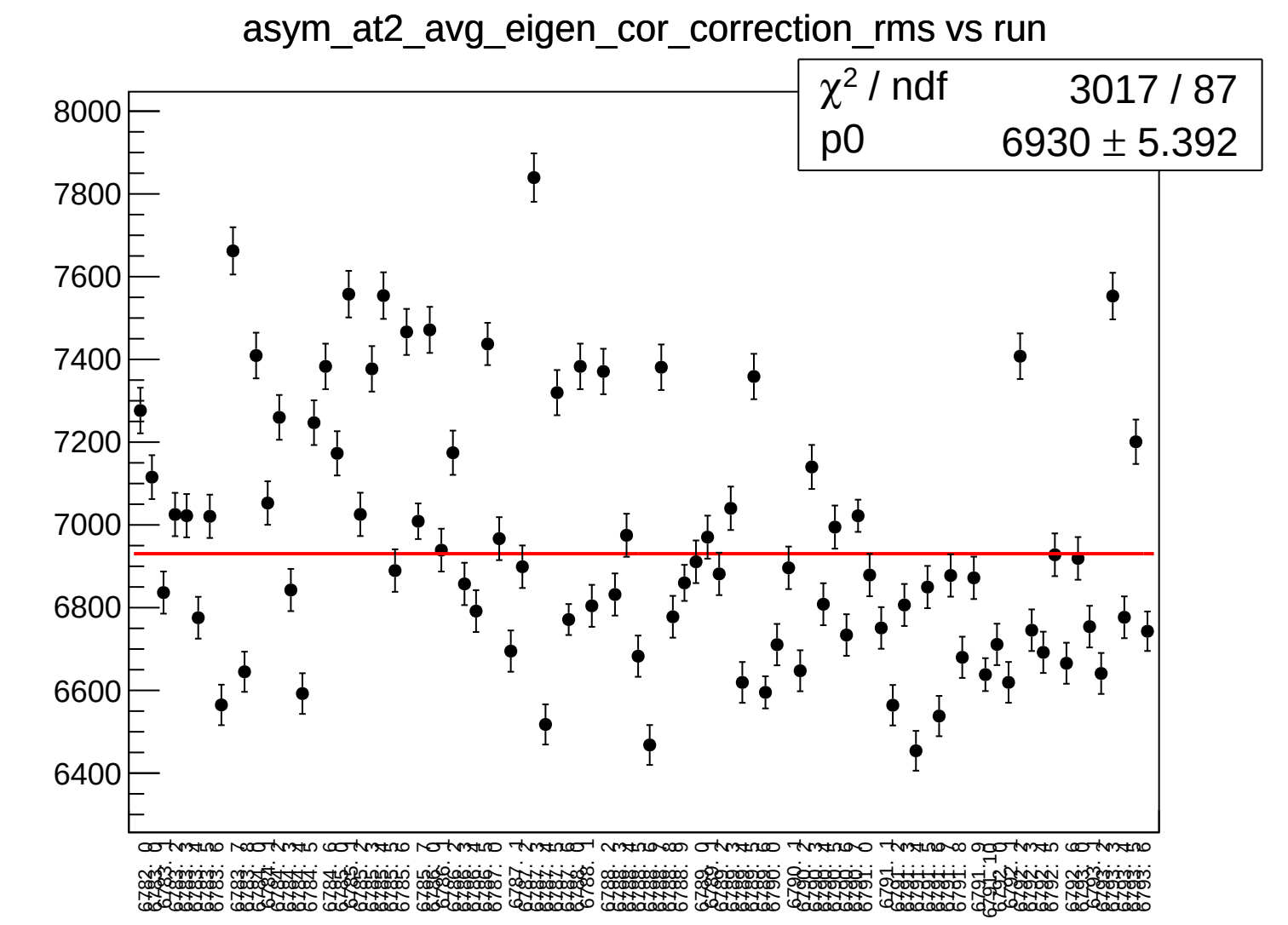

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 90.8 / 87
p0 −2459 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2241
Std Dev 0
2
1
0
−1
−2

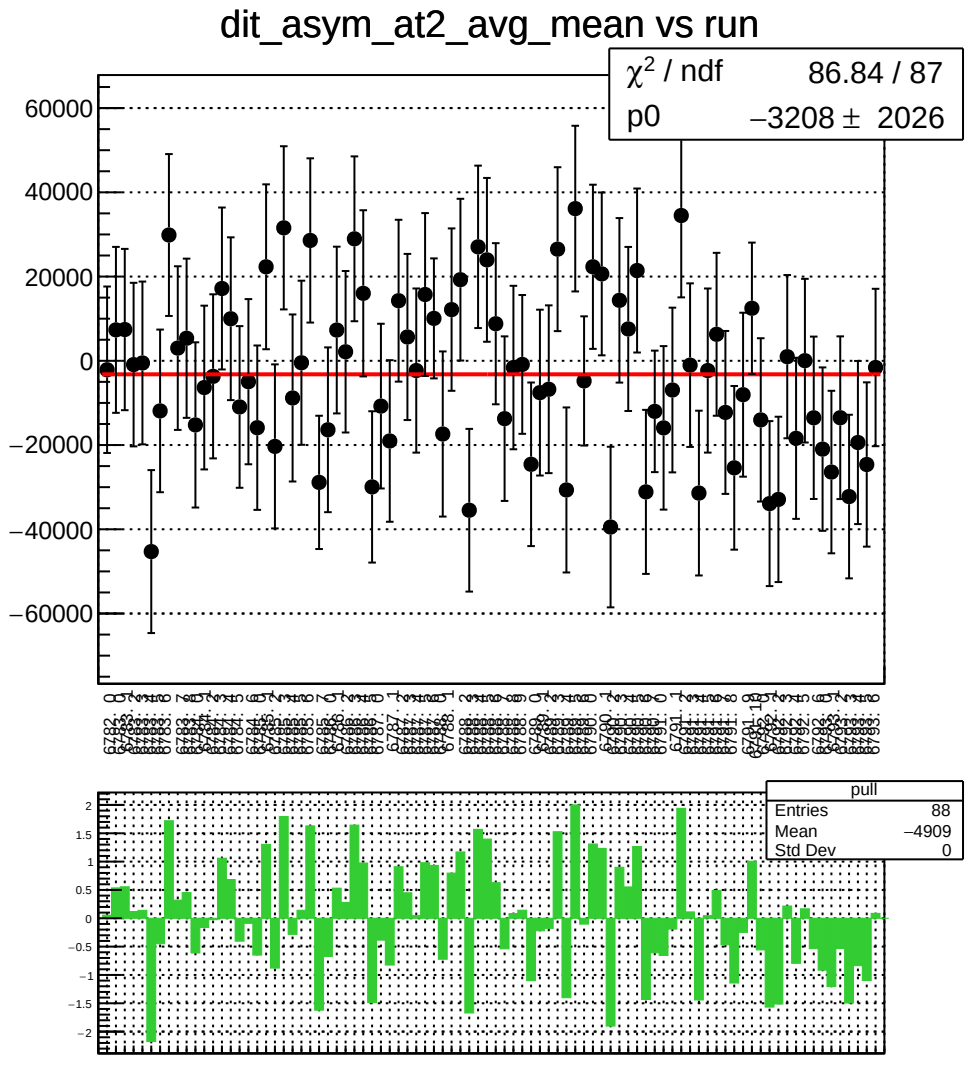

pull1D
Entries 88
Mean 0.002223
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

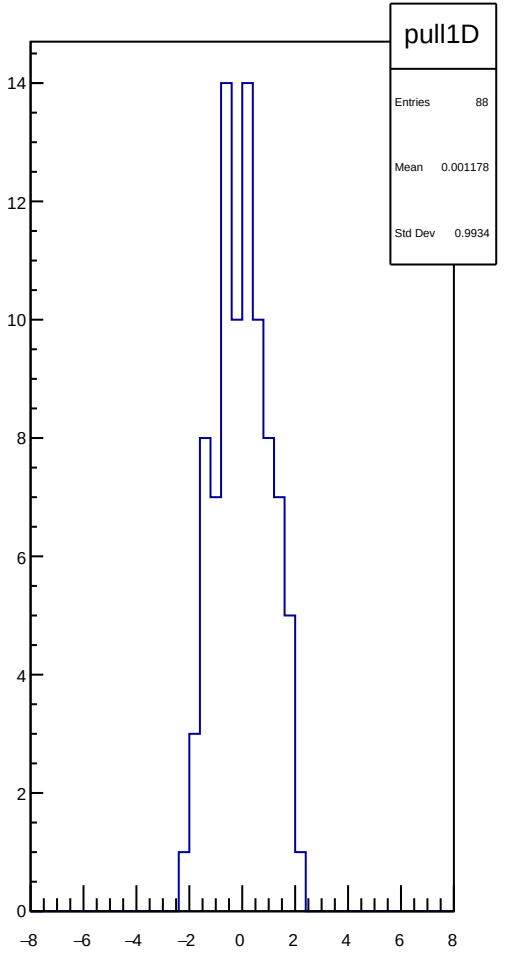

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 157.1 / 87
p0 1760 ± 1.368
1840
1820
1800
1780
1760
1740
1720
1700

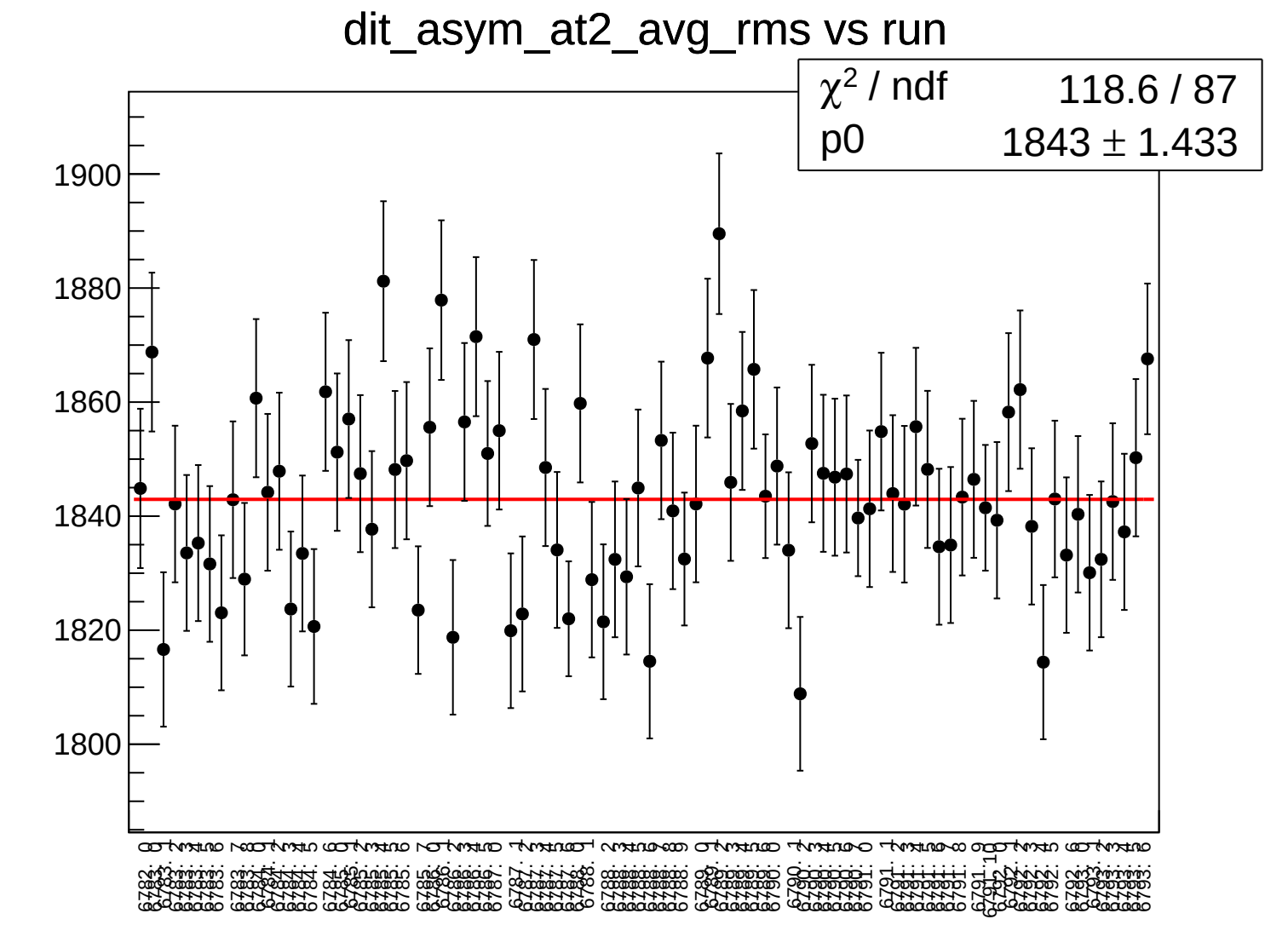

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.18 / 87
p0 −4965 ± 7626
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −4.971
Std Dev 0
2
1
0
−1
−2

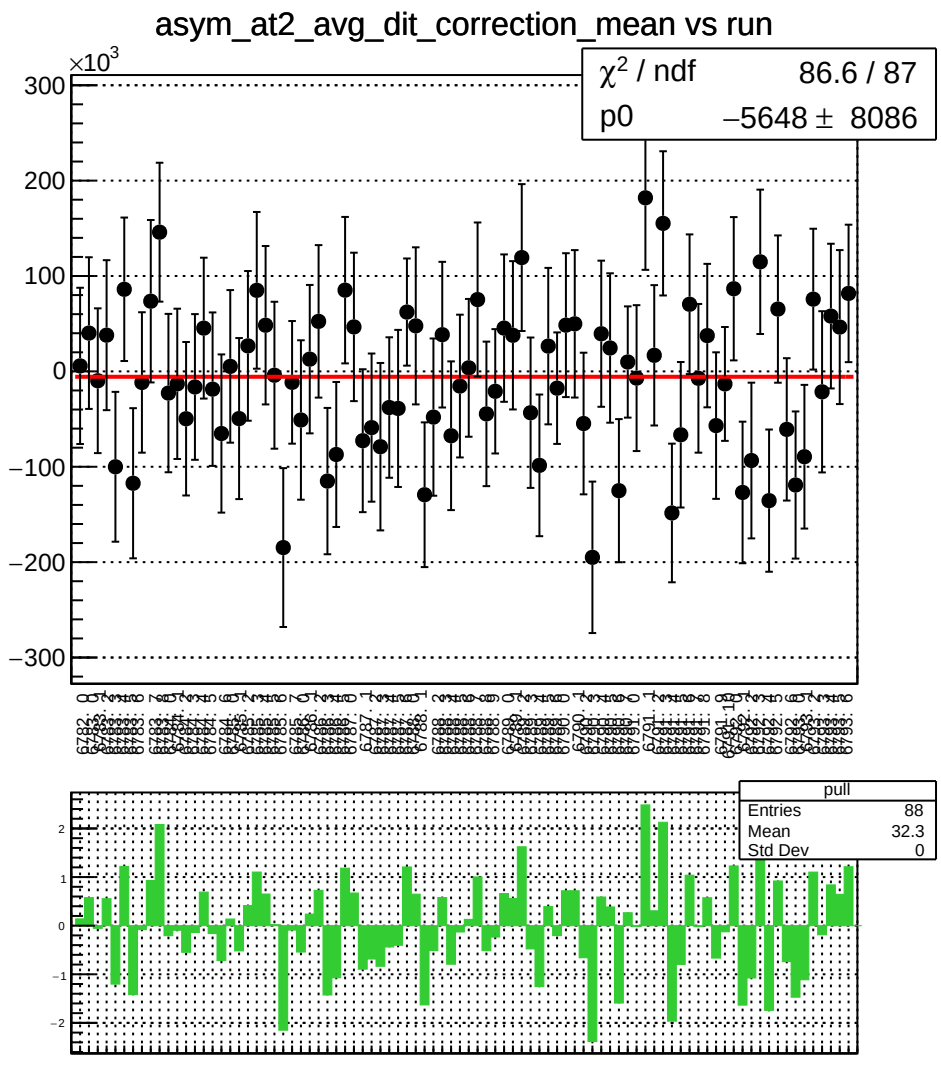

pull1D
Entries 88
Mean −0.008179
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

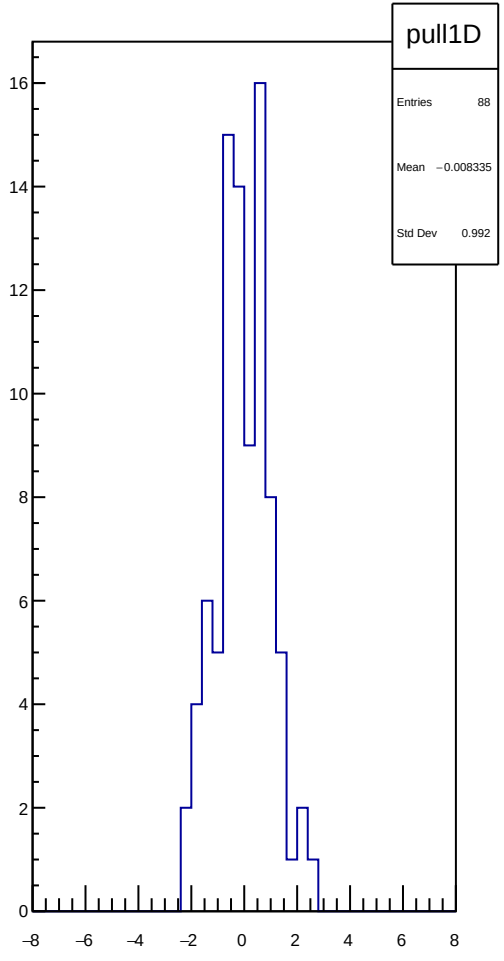

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3017 / 87
p0 6930 ± 5.392
8000
7800
7600
7400
7200
7000
6800
6600
6400

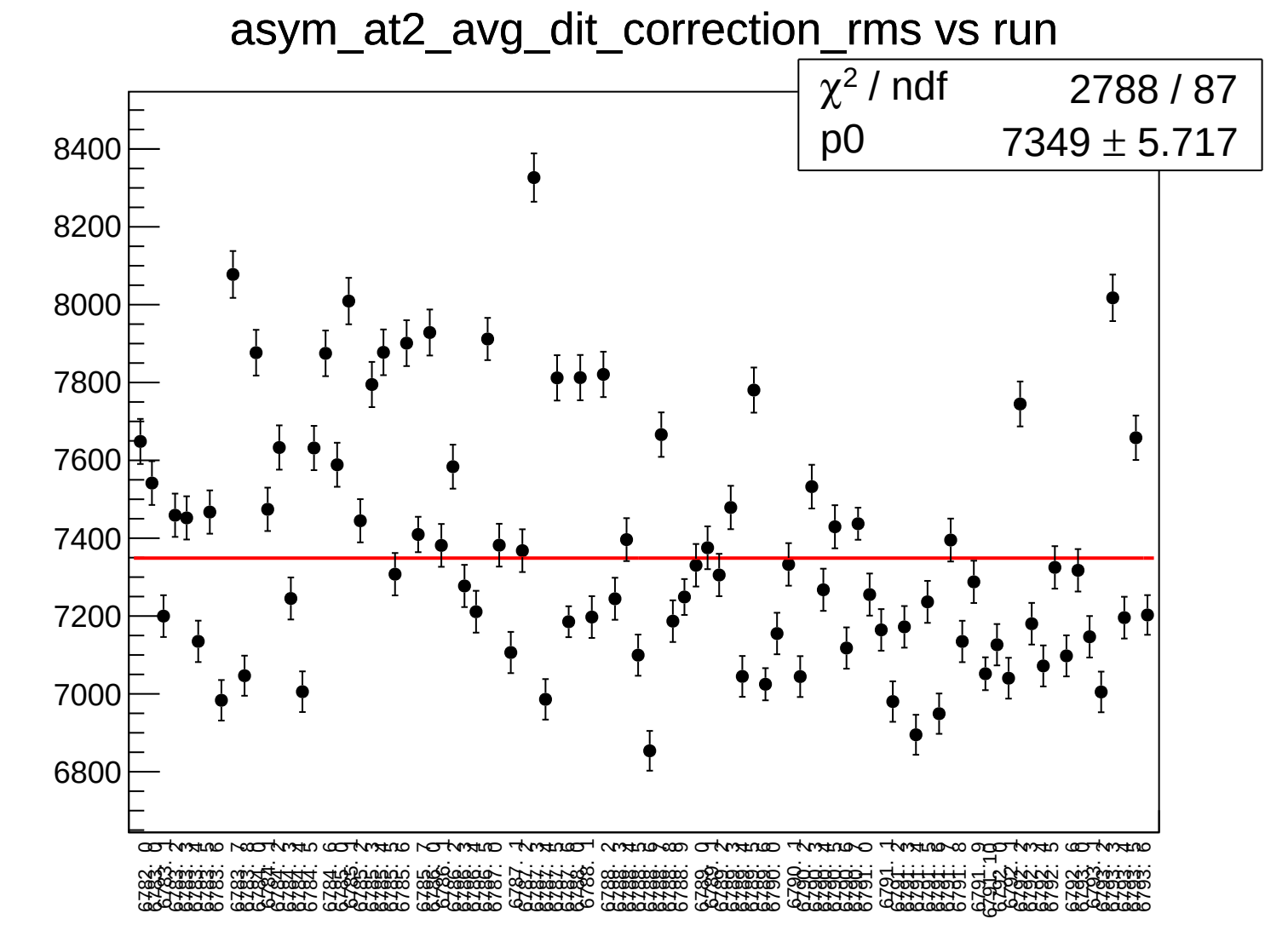

dit_asym_at2_avg_mean vs run
χ² / ndf 86.84 / 87
p0 −3208 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −4909
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

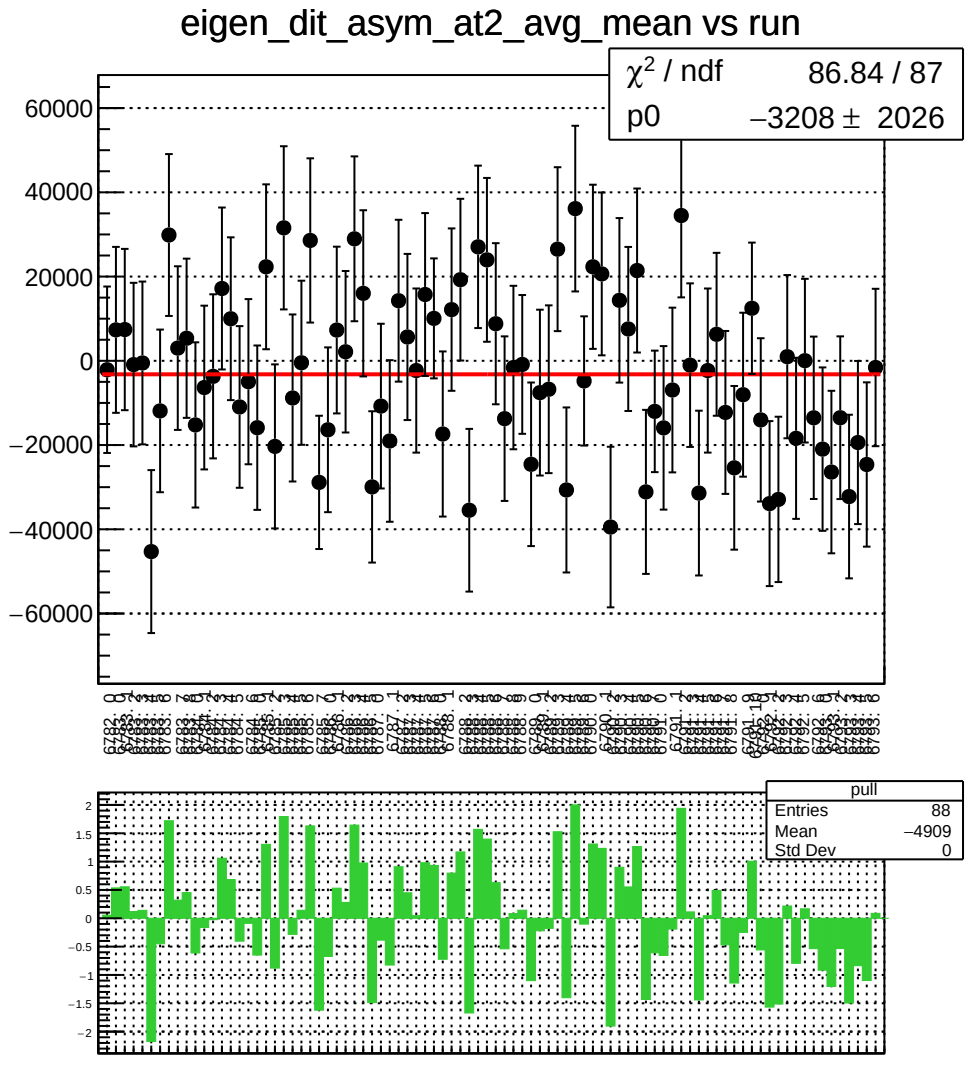

pull1D
Entries 88
Mean 0.001178
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

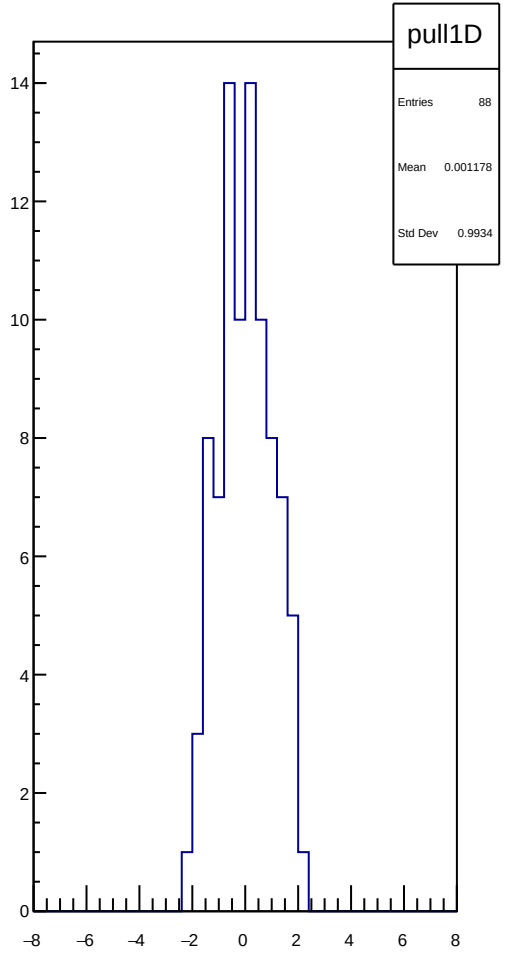

dit_asym_at2_avg_rms vs run
χ^2 / ndf 118.6 / 87
p0 1843 ± 1.433
1900
1880
1860
1840
1820
1800

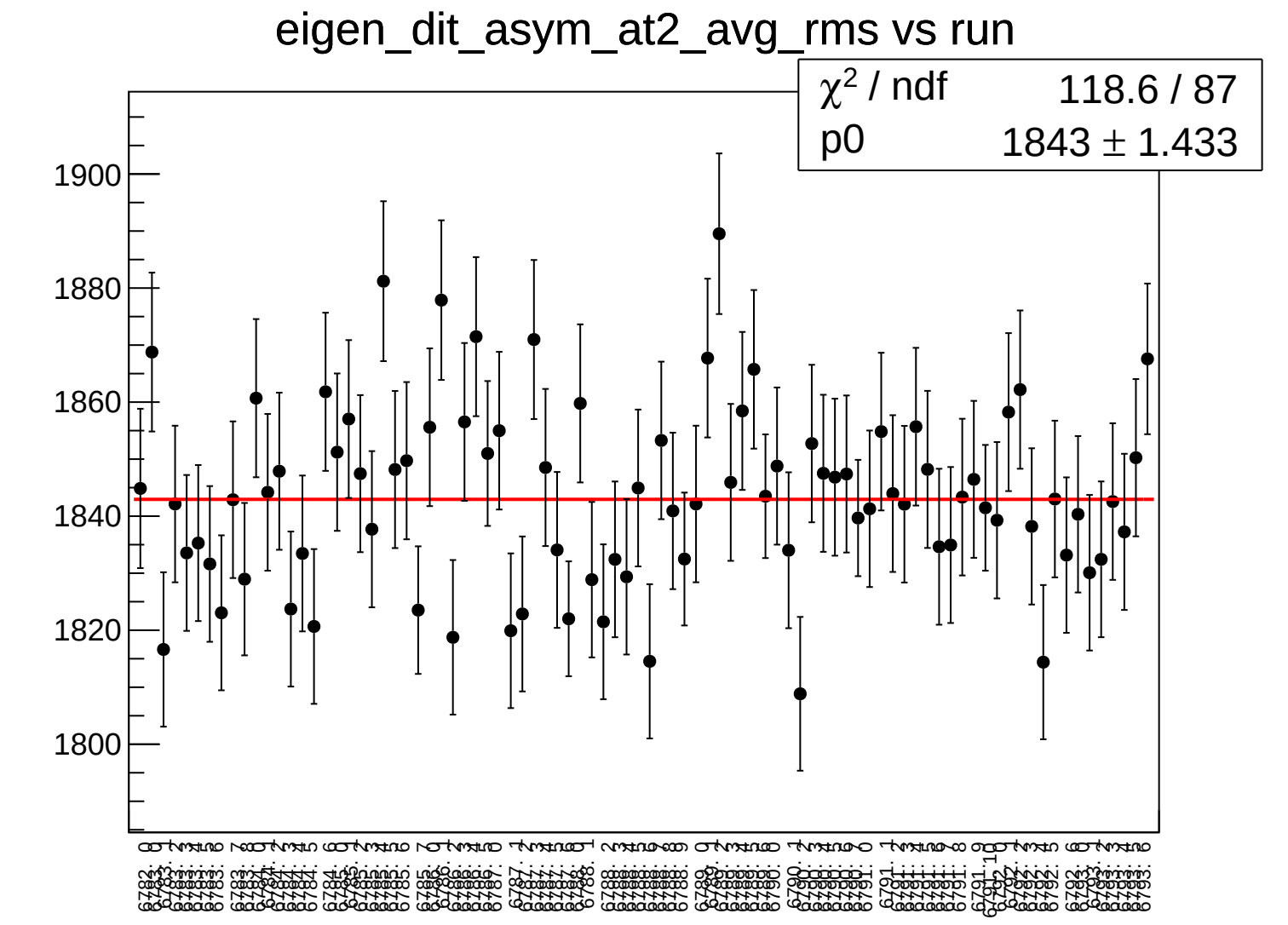

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.6 / 87
p0 −5648 ± 8086
pull
Entries 88
Mean 32.3
Std Dev 0

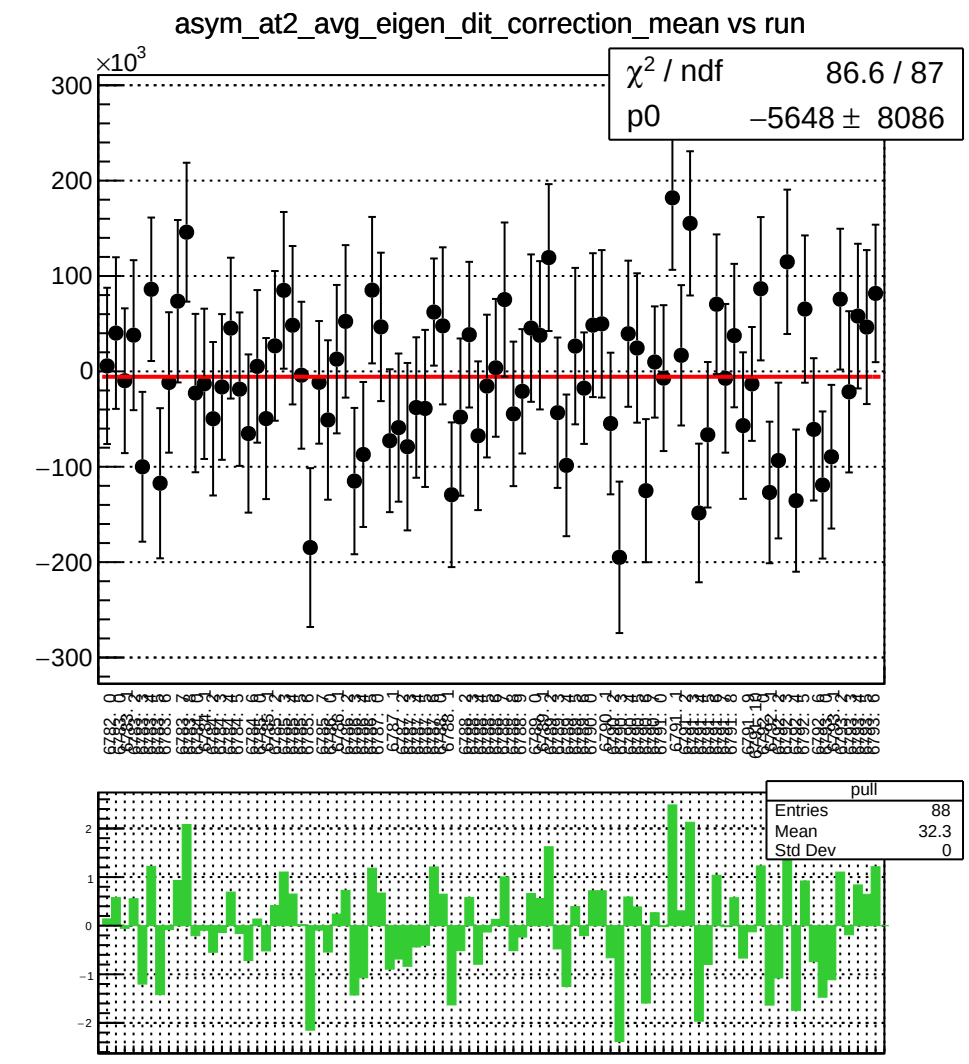

pull1D
Entries 88
Mean −0.008335
Std Dev 0.992

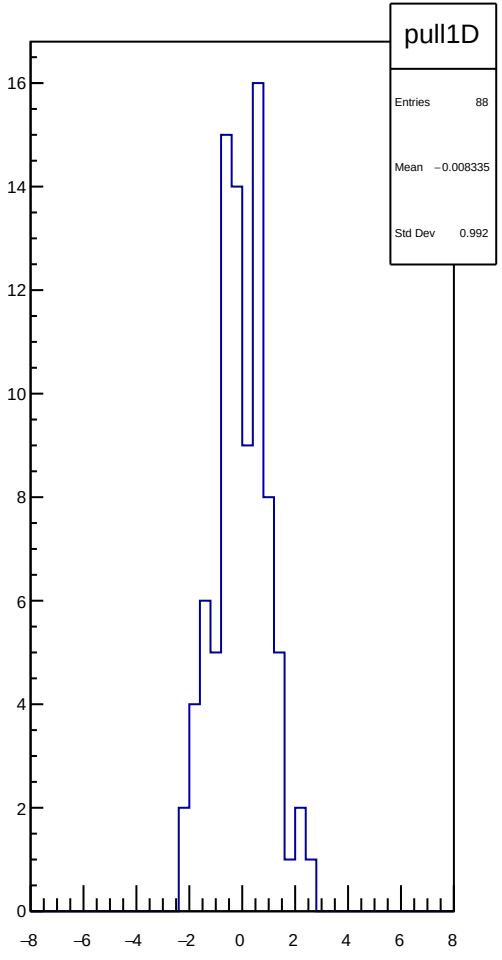

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2788 / 87
p0 7349 ± 5.717
8400
8200
8000
7800
7600
7400
7200
7000
6800

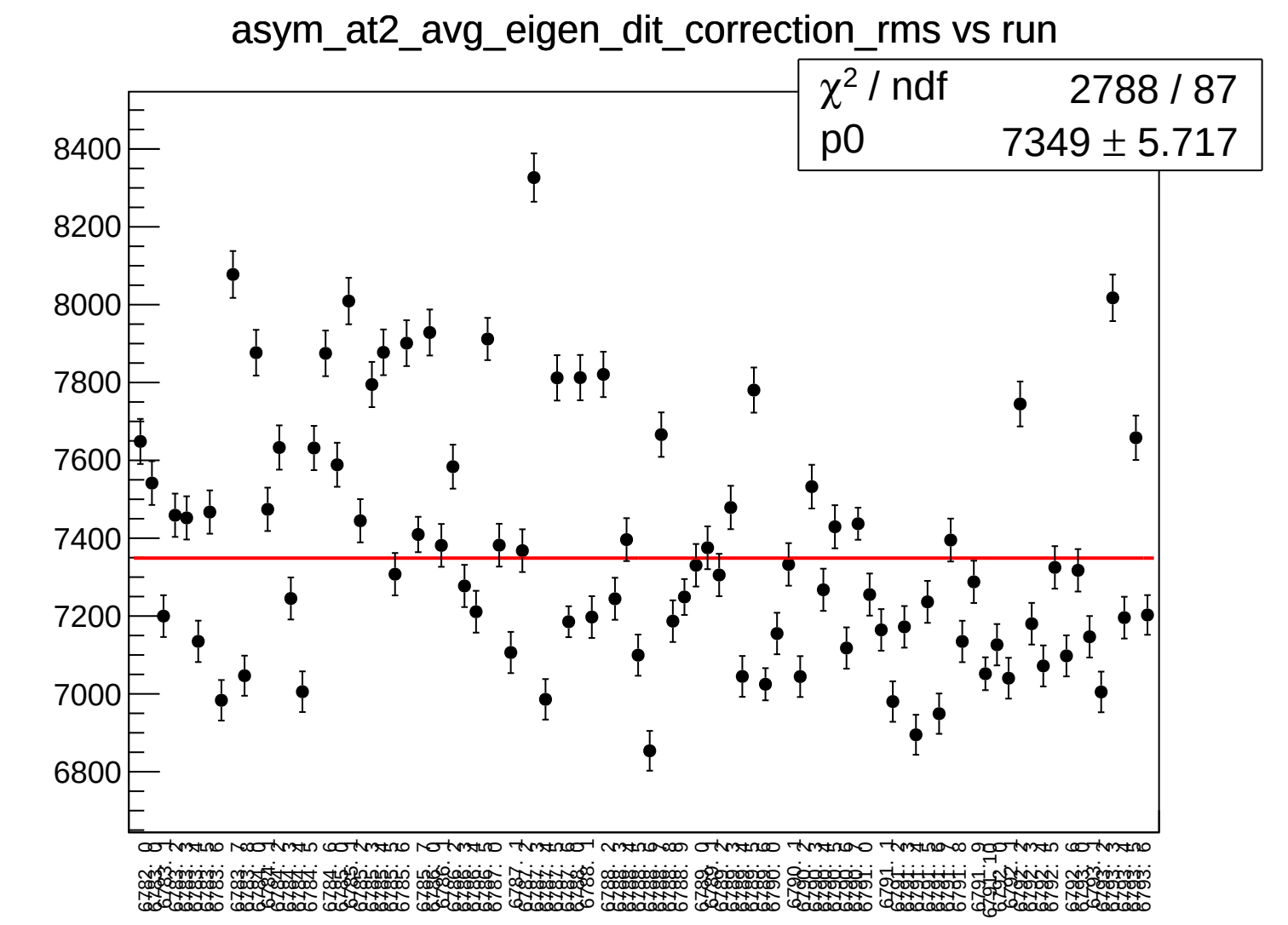

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 86.84 / 87
p0 −3208 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −4909
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

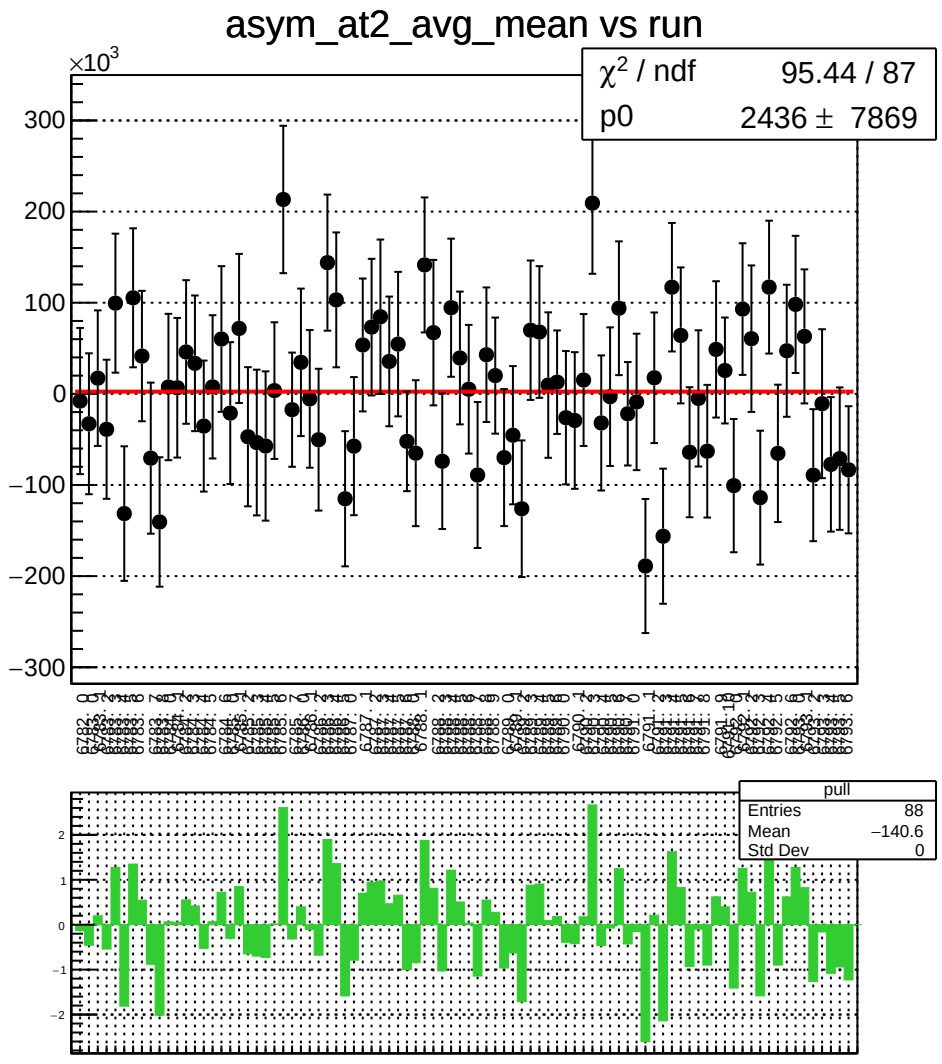

pull1D
Entries 88
Mean 0.001178
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

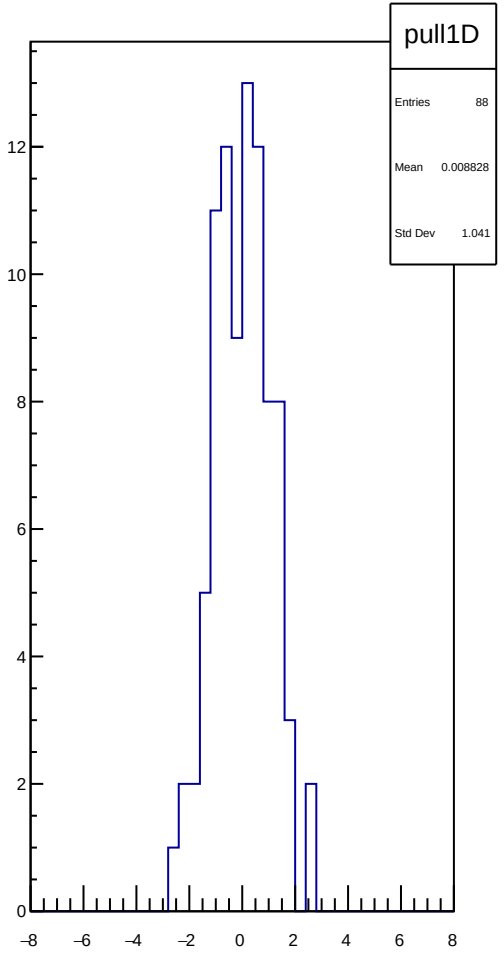

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 118.6 / 87
p0 1843 ± 1.433
1900
1880
1860
1840
1820
1800

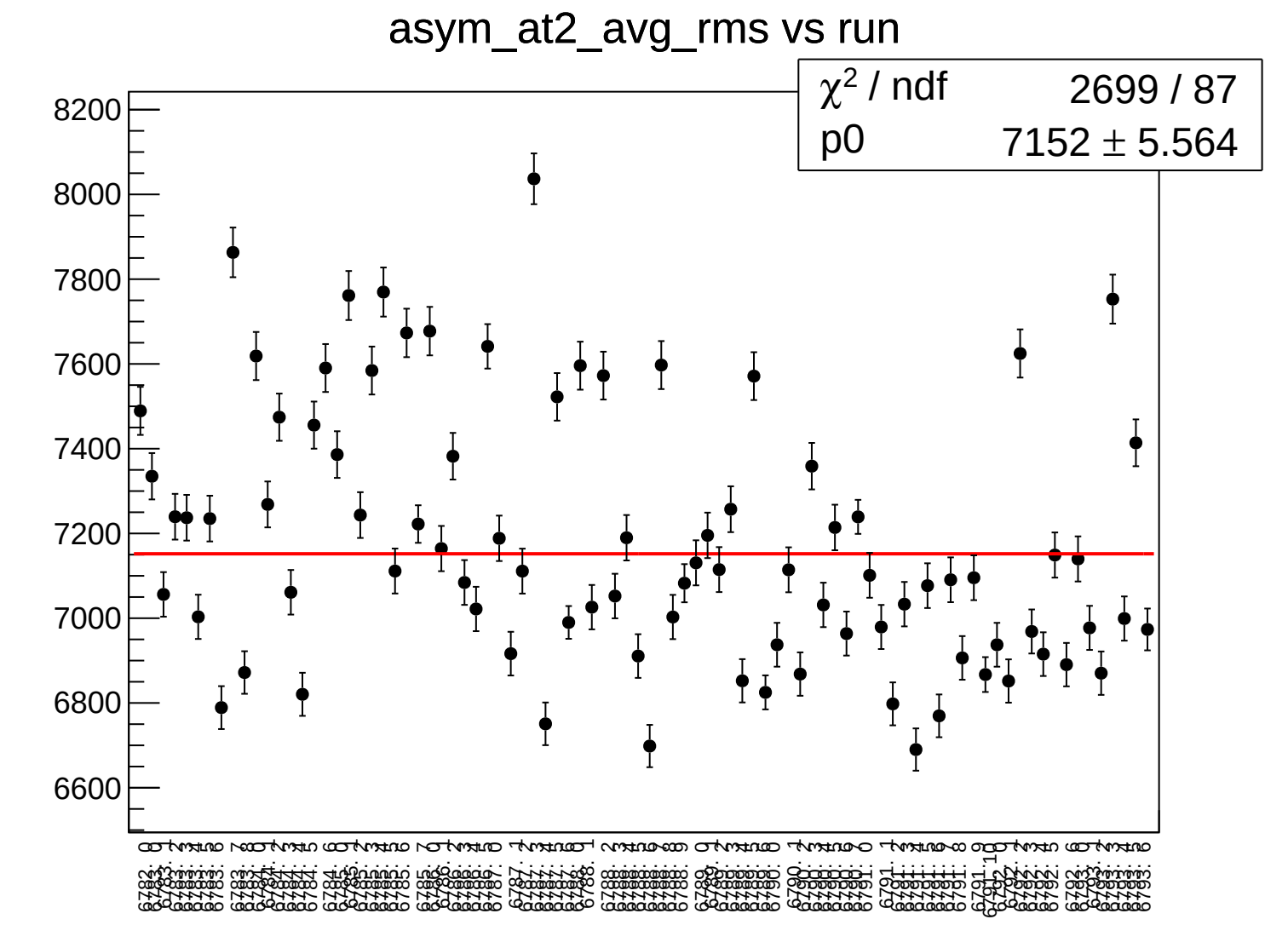

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.6 / 87
p0 −5648 ± 8086
pull
Entries 88
Mean 32.3
Std Dev 0

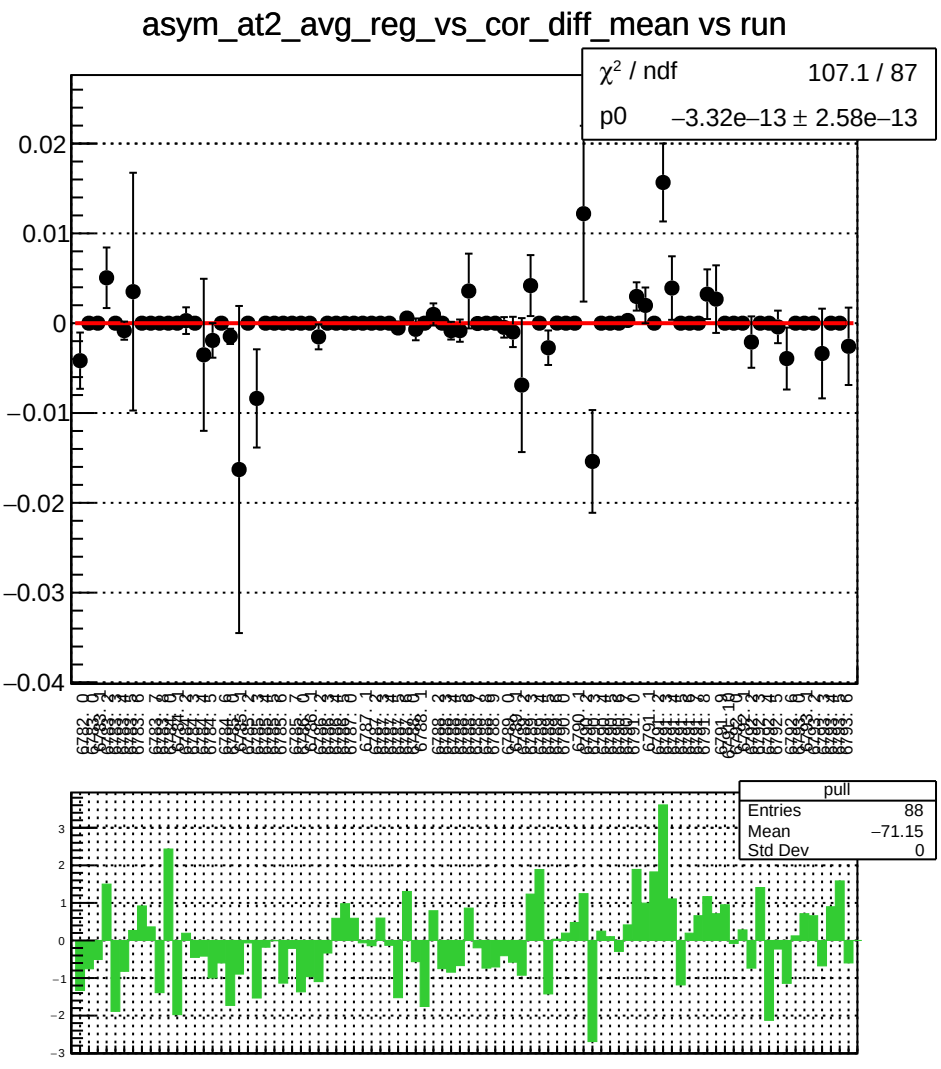

pull1D
Entries 88
Mean −0.008335
Std Dev 0.992

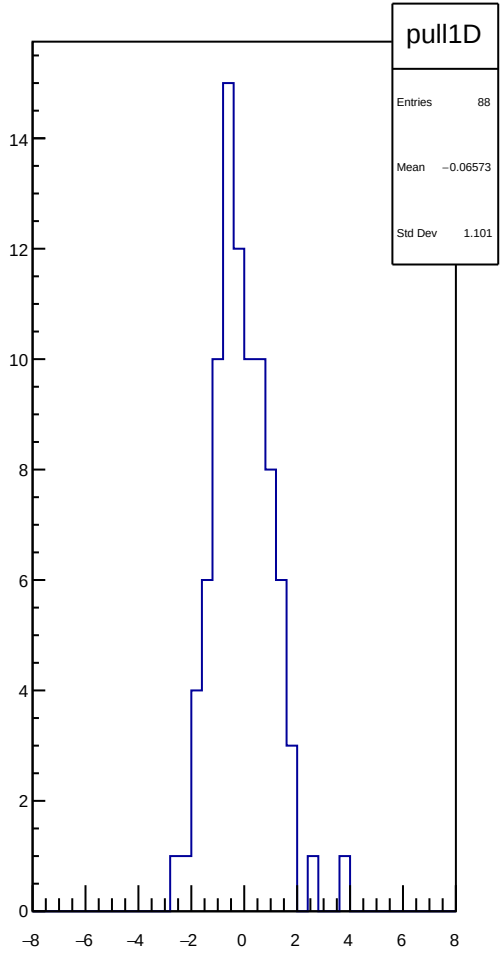

asym_at2_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2788 / 87
p0 7349 ± 5.717
8400
8200
8000
7800
7600
7400
7200
7000
6800

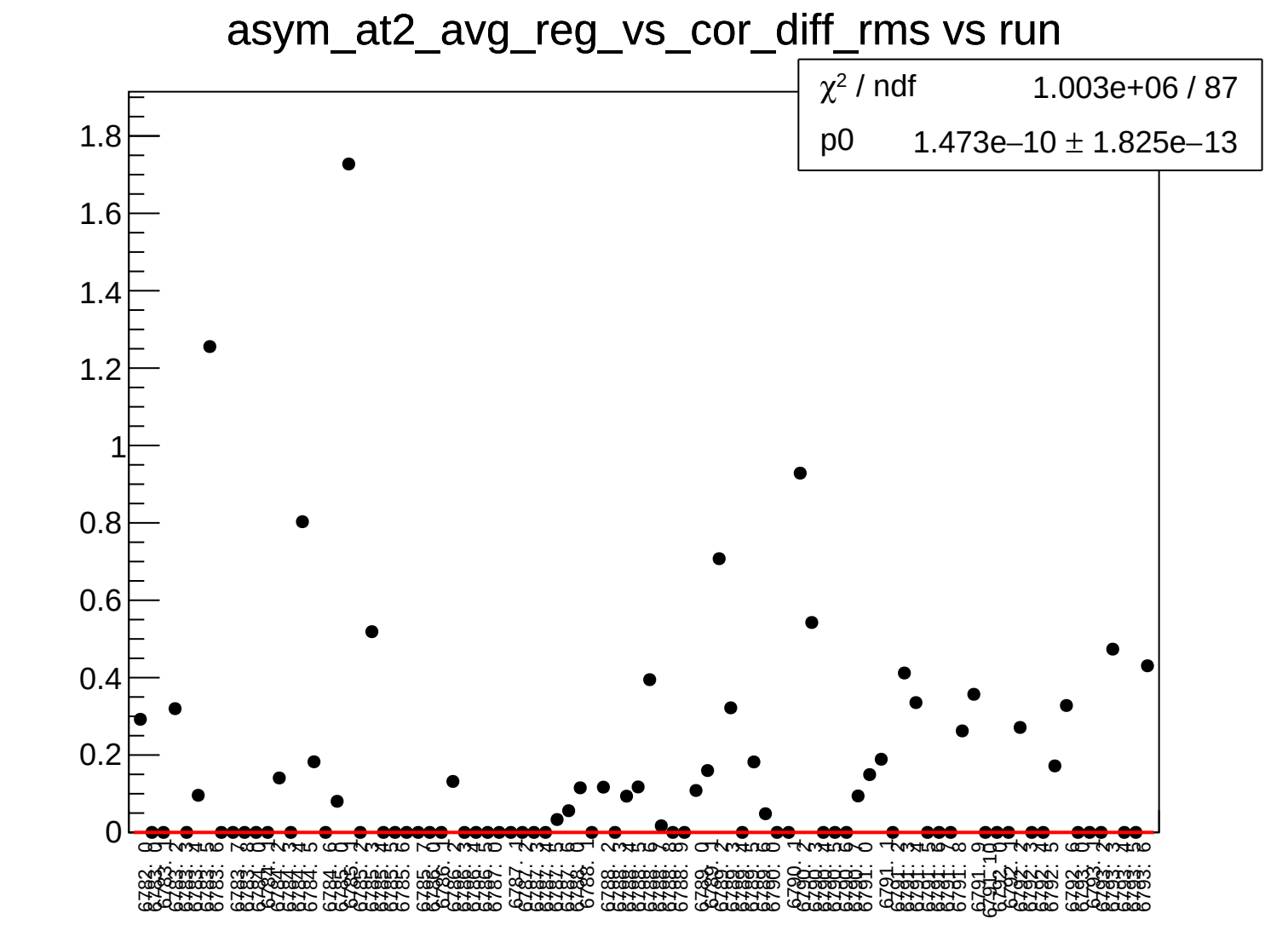

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 95.44 / 87
p0 2436 ± 7869
pull
Entries 88
Mean −140.6
Std Dev 0

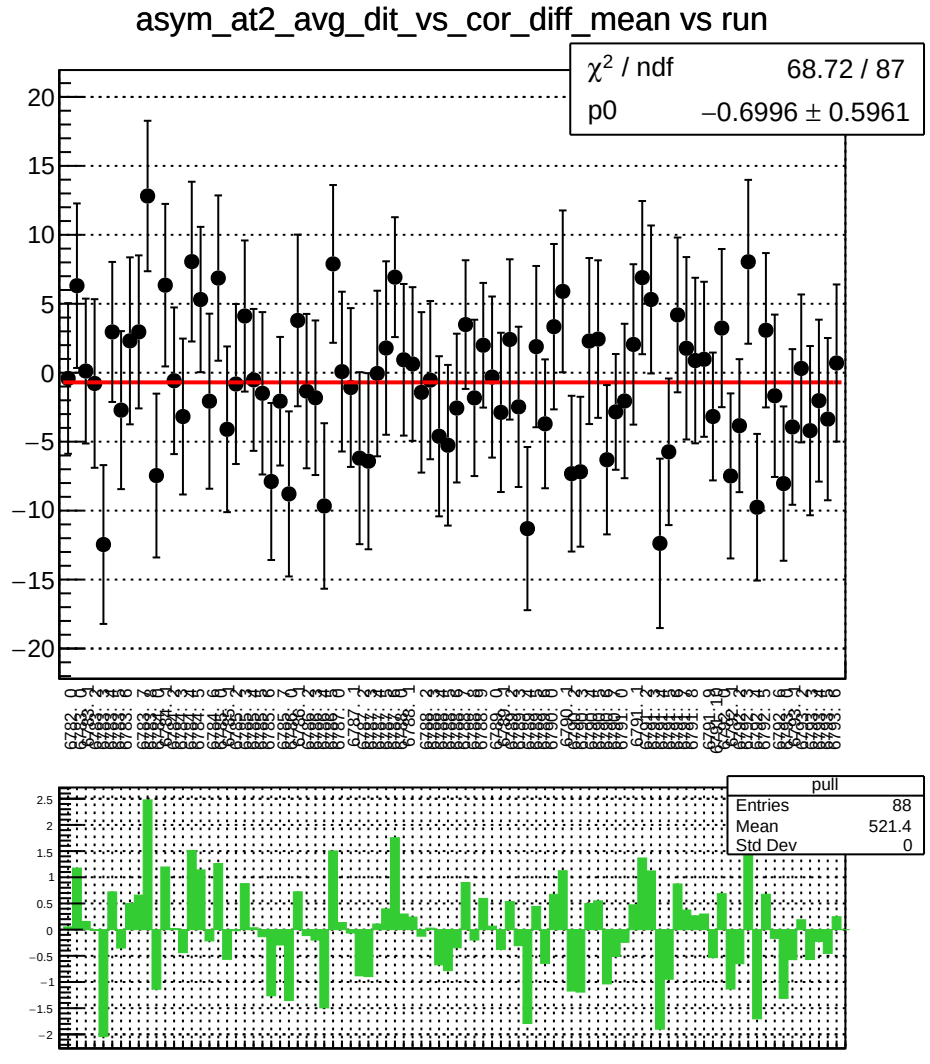

pull1D
Entries 88
Mean 0.008828
Std Dev 1.041

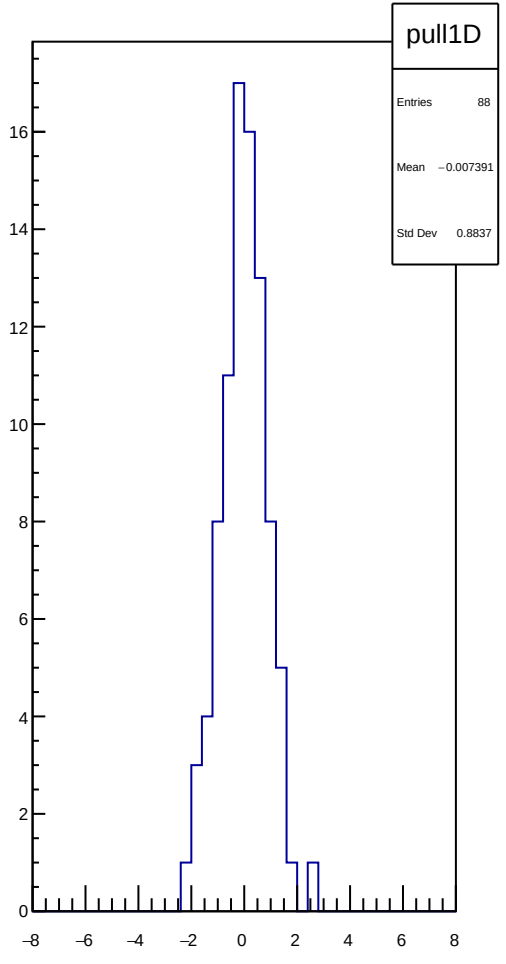

asym_at2_avg_rms vs run
χ² / ndf 2699 / 87
p0 7152 ± 5.564
8200
8000
7800
7600
7400
7200
7000
6800
6600

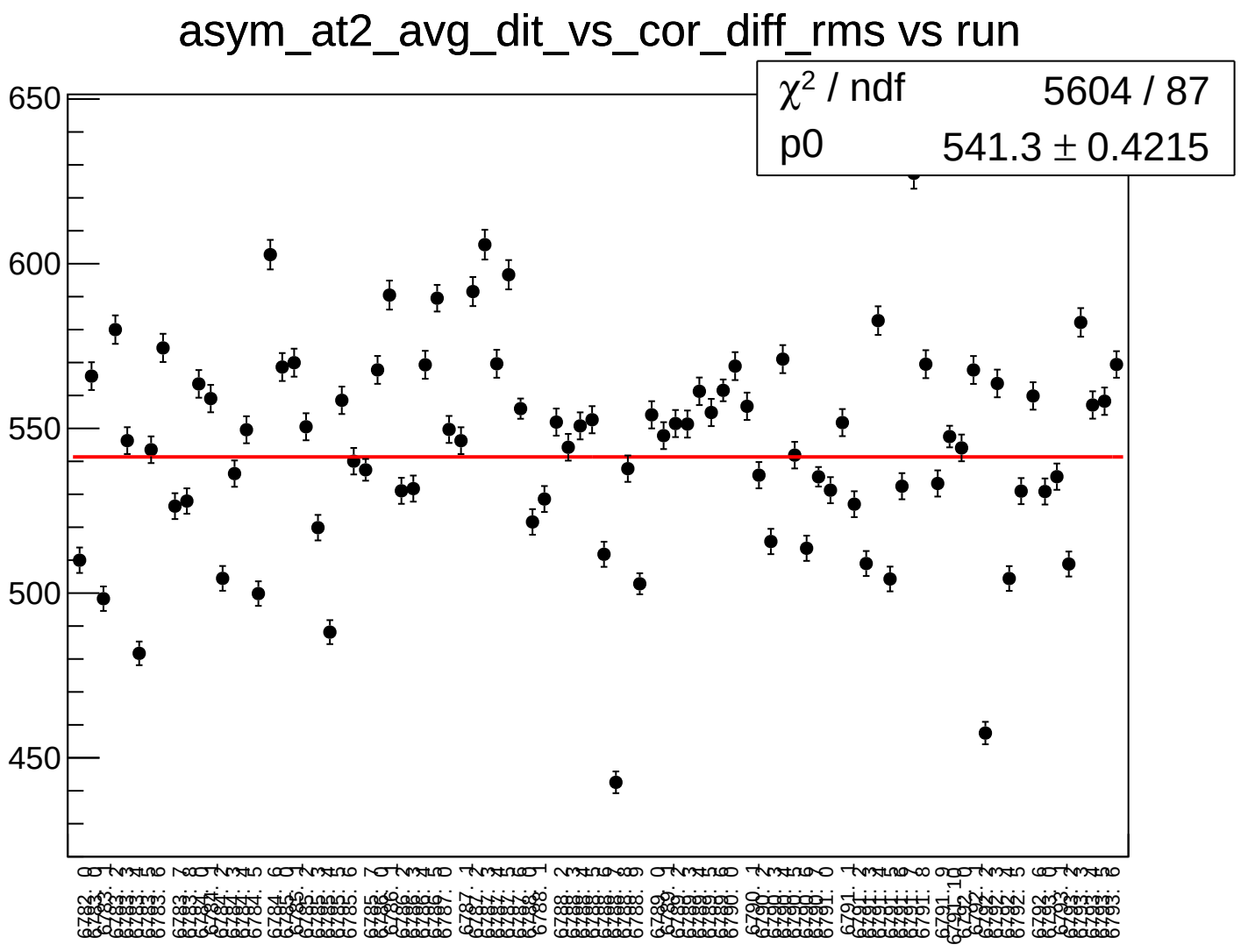

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 87
p0 −3.32e−13 ± 2.58e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean −71.15
Std Dev 0
3
2
1
0
−1
−2
−3

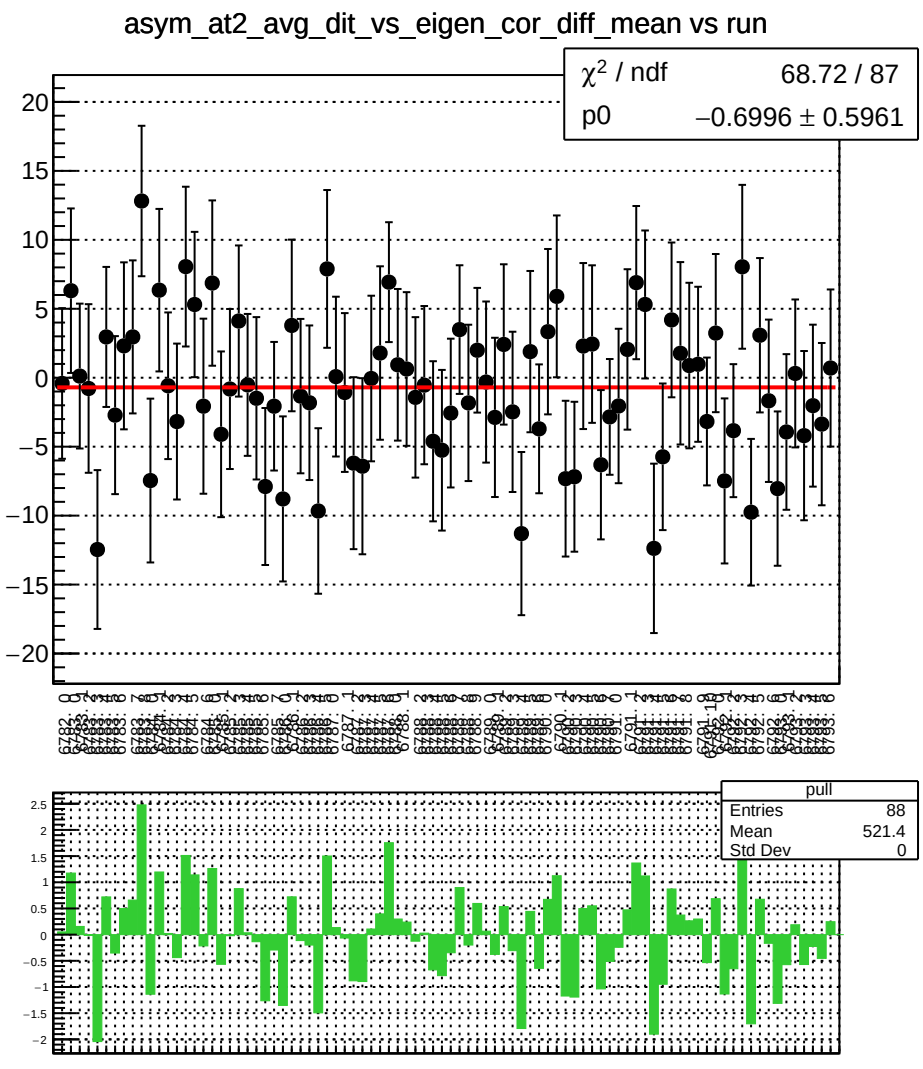

pull1D
Entries 88
Mean −0.06573
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

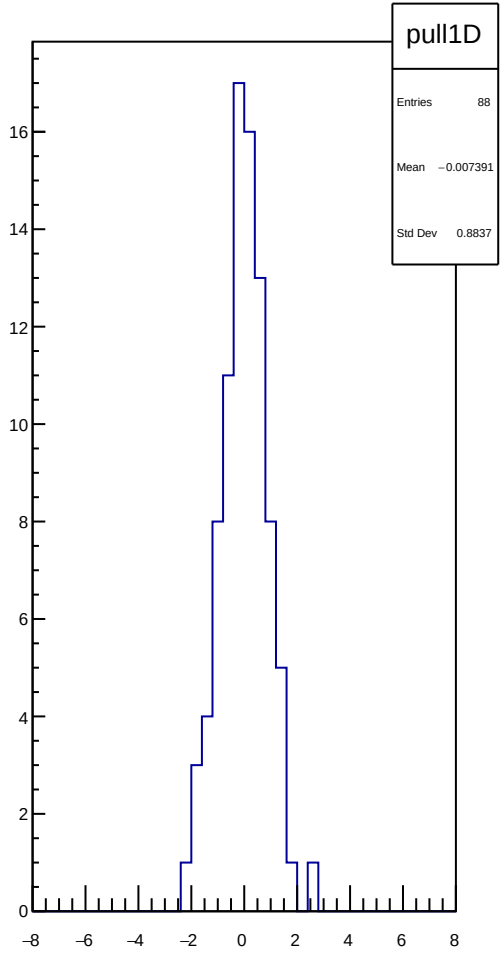

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 87
p0 1.473e−10 ± 1.825e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

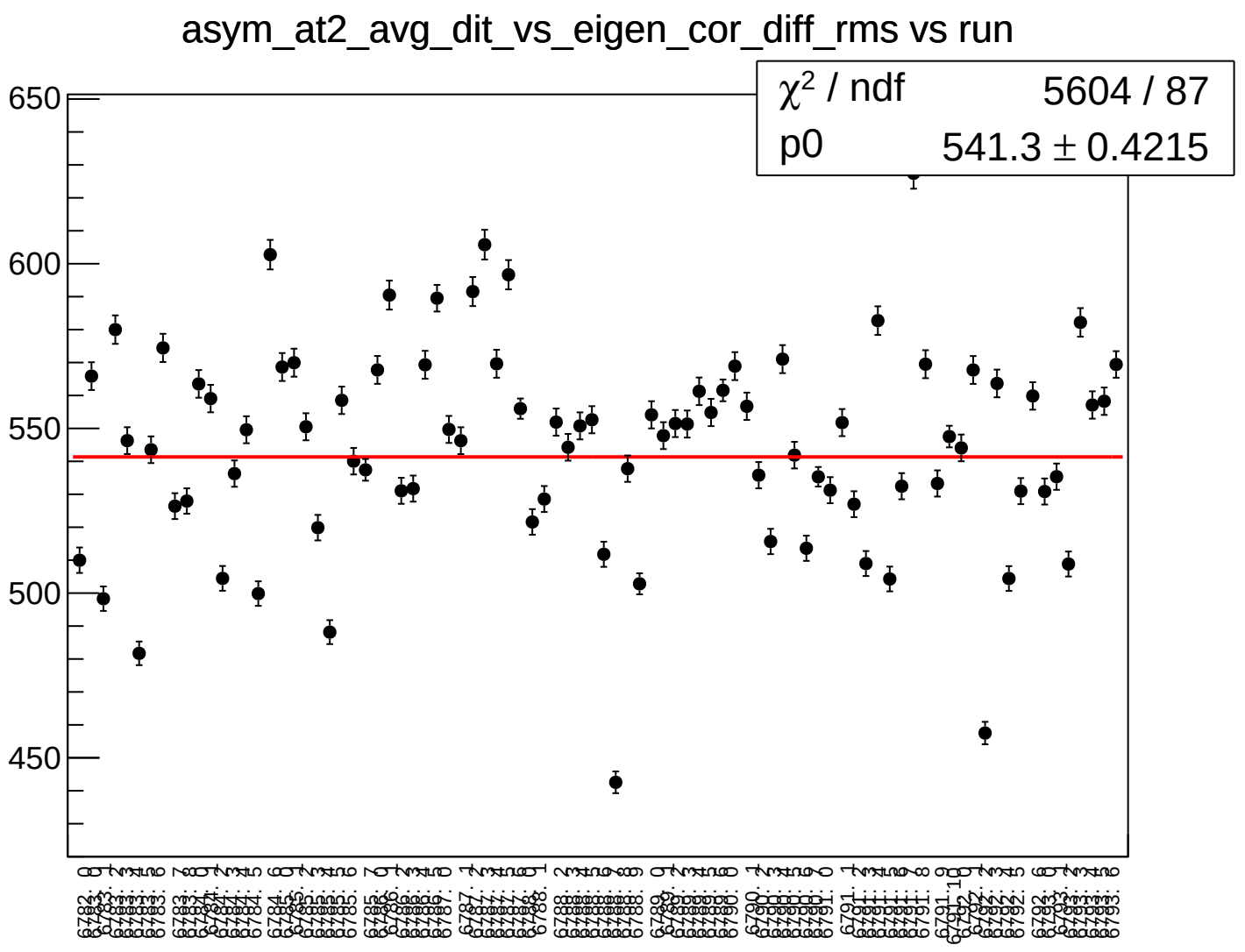

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.72 / 87
p0 −0.6996 ± 0.5961
pull
Entries 88
Mean 521.4
Std Dev 0

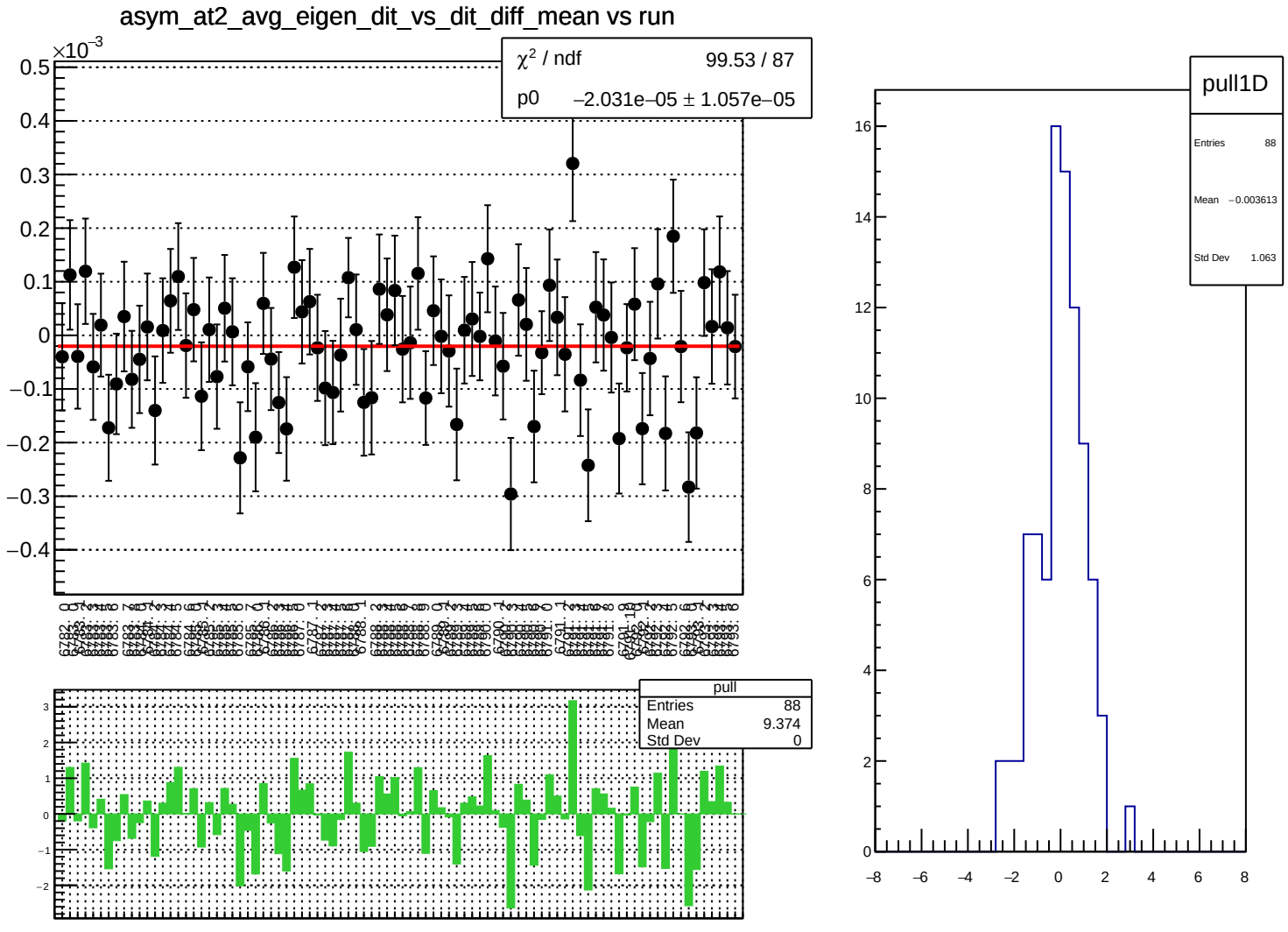

pull1D
Entries 88
Mean −0.007391
Std Dev 0.8837

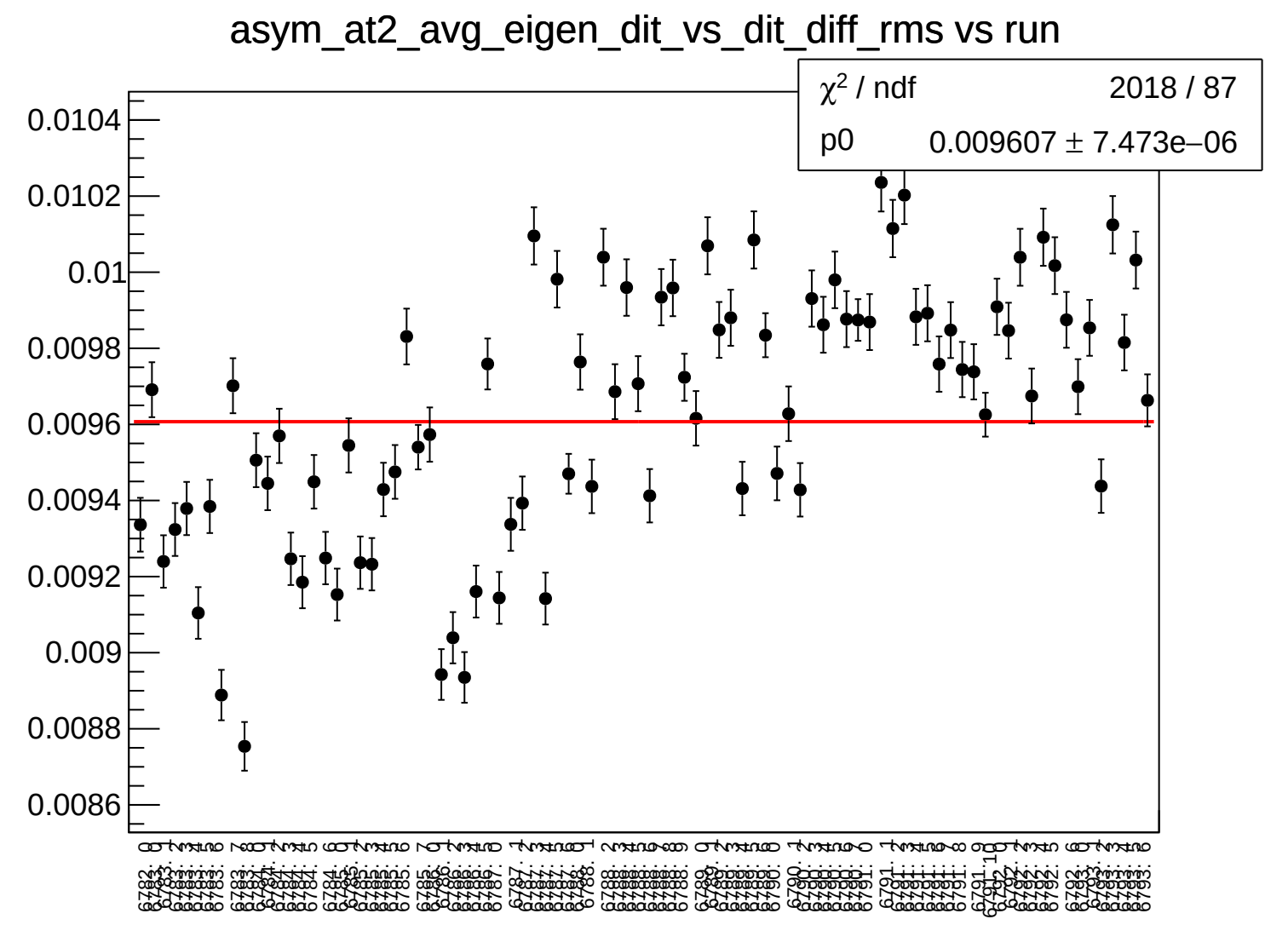

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5604 / 87
p0 541.3 ± 0.4215
650
600
550
500
450

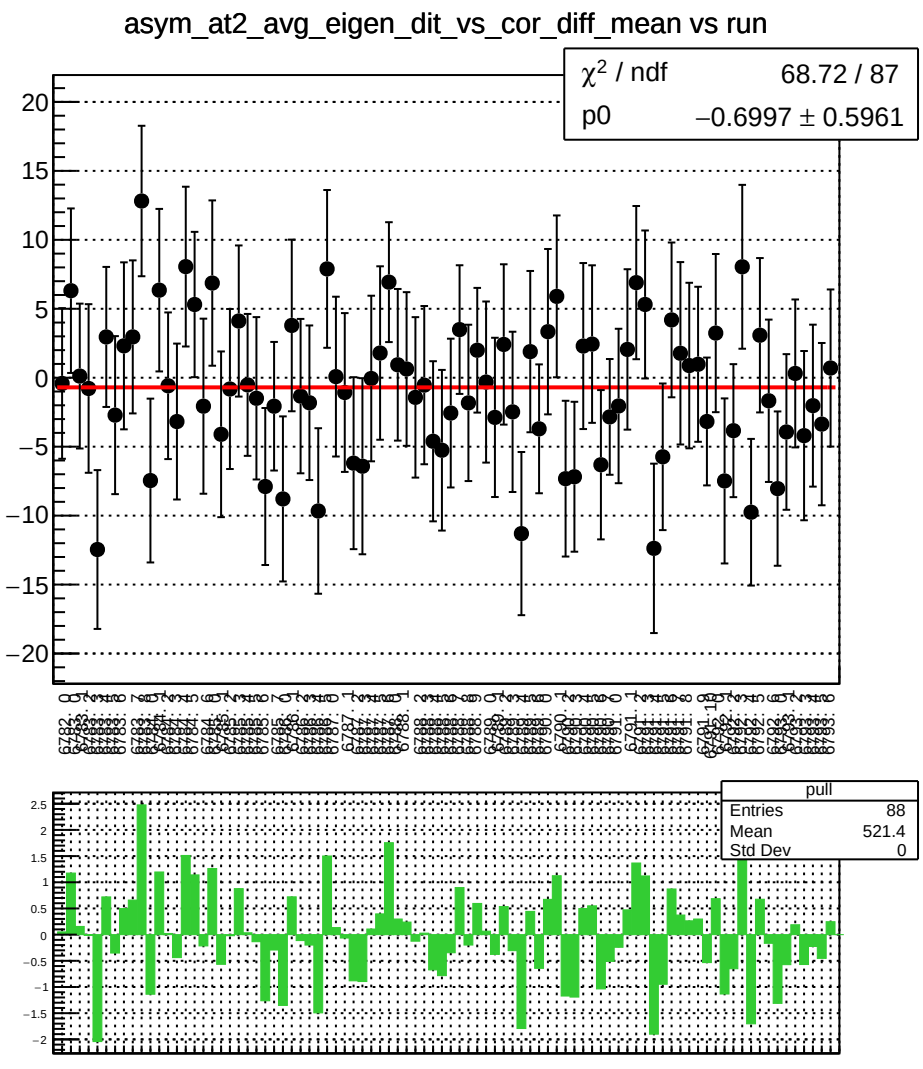

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.72 / 87
p0 −0.6996 ± 0.5961
pull
Entries 88
Mean 521.4
Std Dev 0

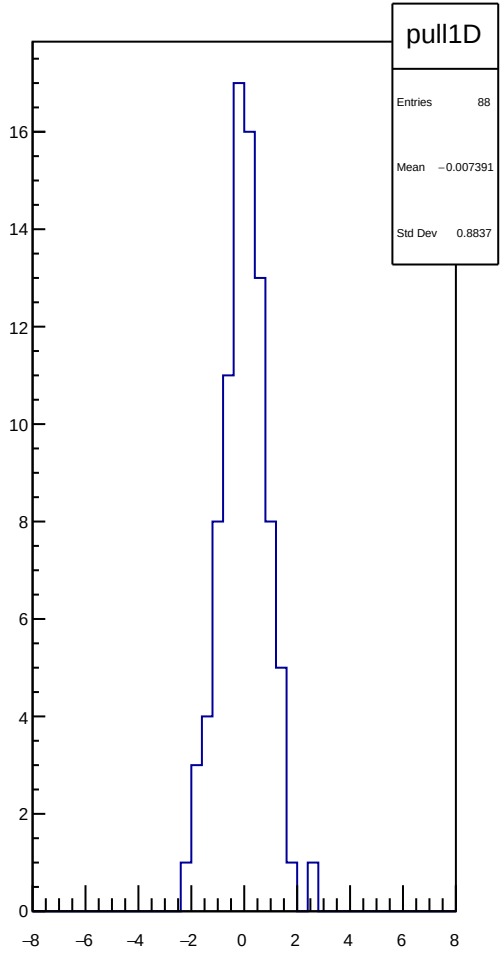

pull1D
Entries 88
Mean −0.007391
Std Dev 0.8837

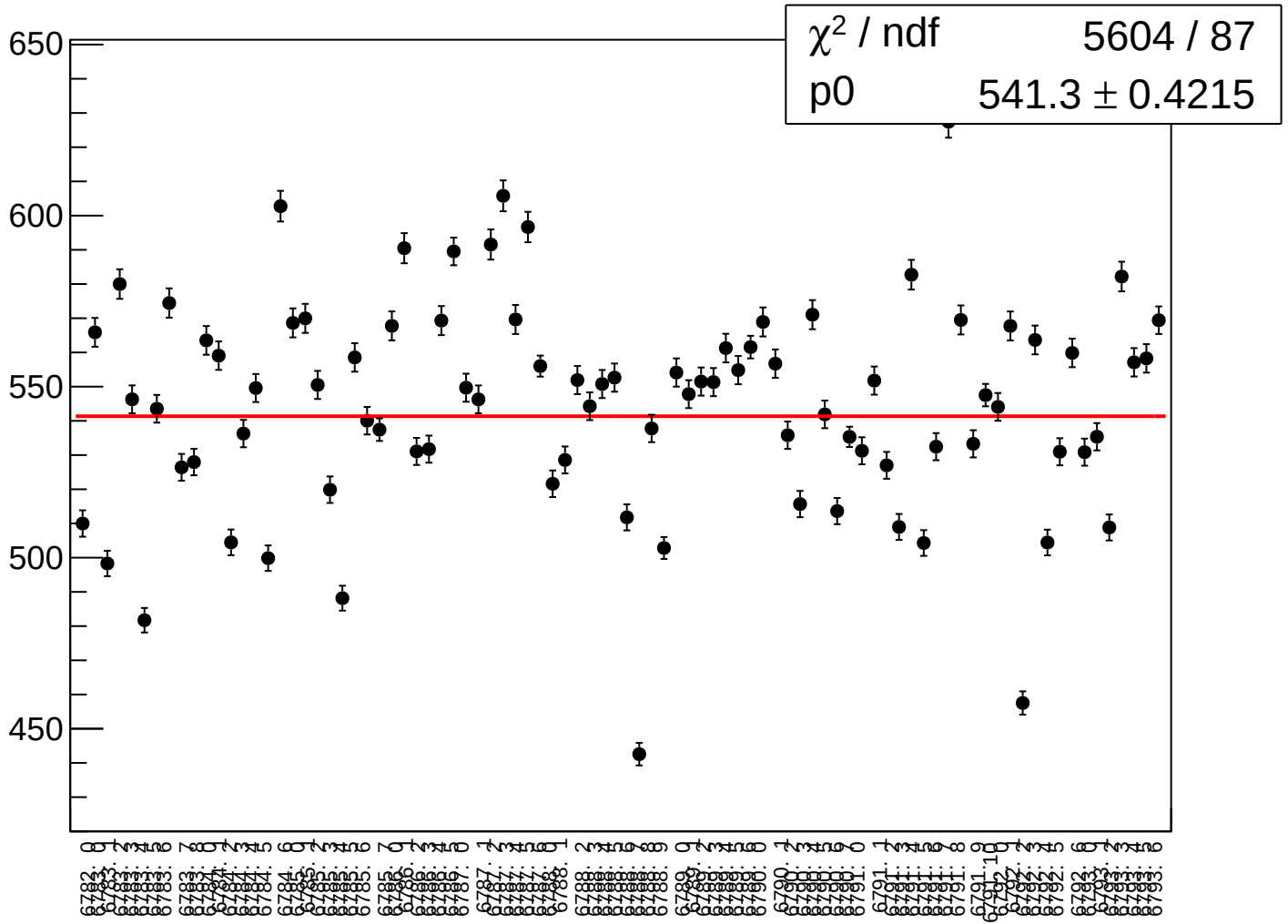

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5604 / 87
p0 541.3 ± 0.4215
650
600
550
500
450

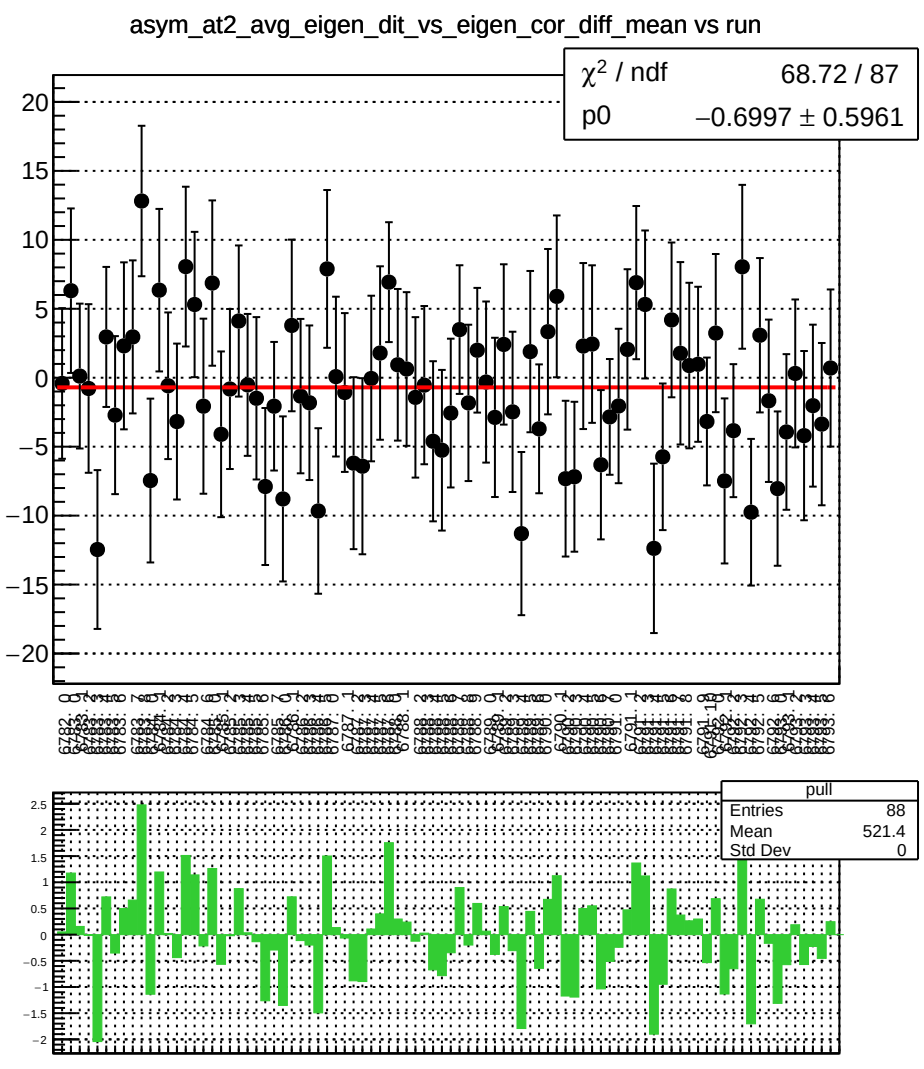

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.53 / 87
p0 −2.031e−05 ± 1.057e−05
pull
Entries 88
Mean 9.374
Std Dev 0
pull1D
Entries 88
Mean −0.003613
Std Dev 1.063

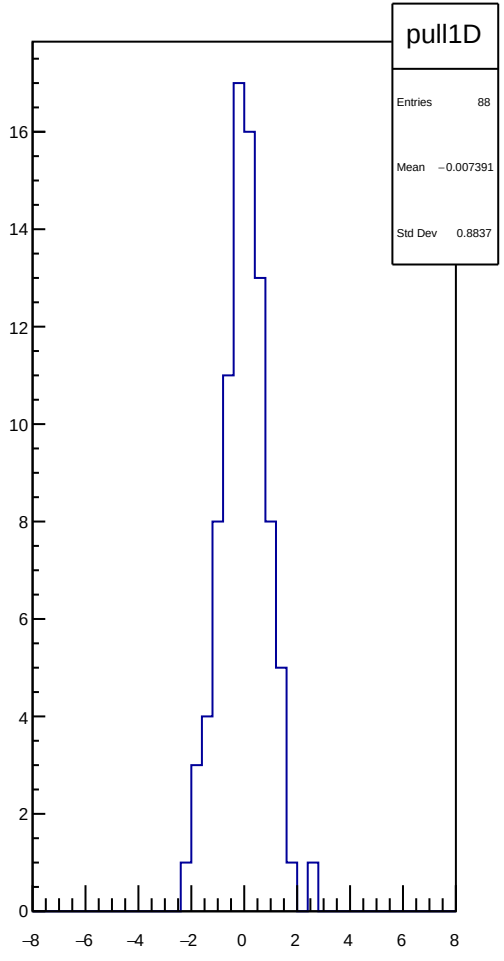

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2018 / 87
p0 0.009607 ± 7.473e−06
0.0104
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086

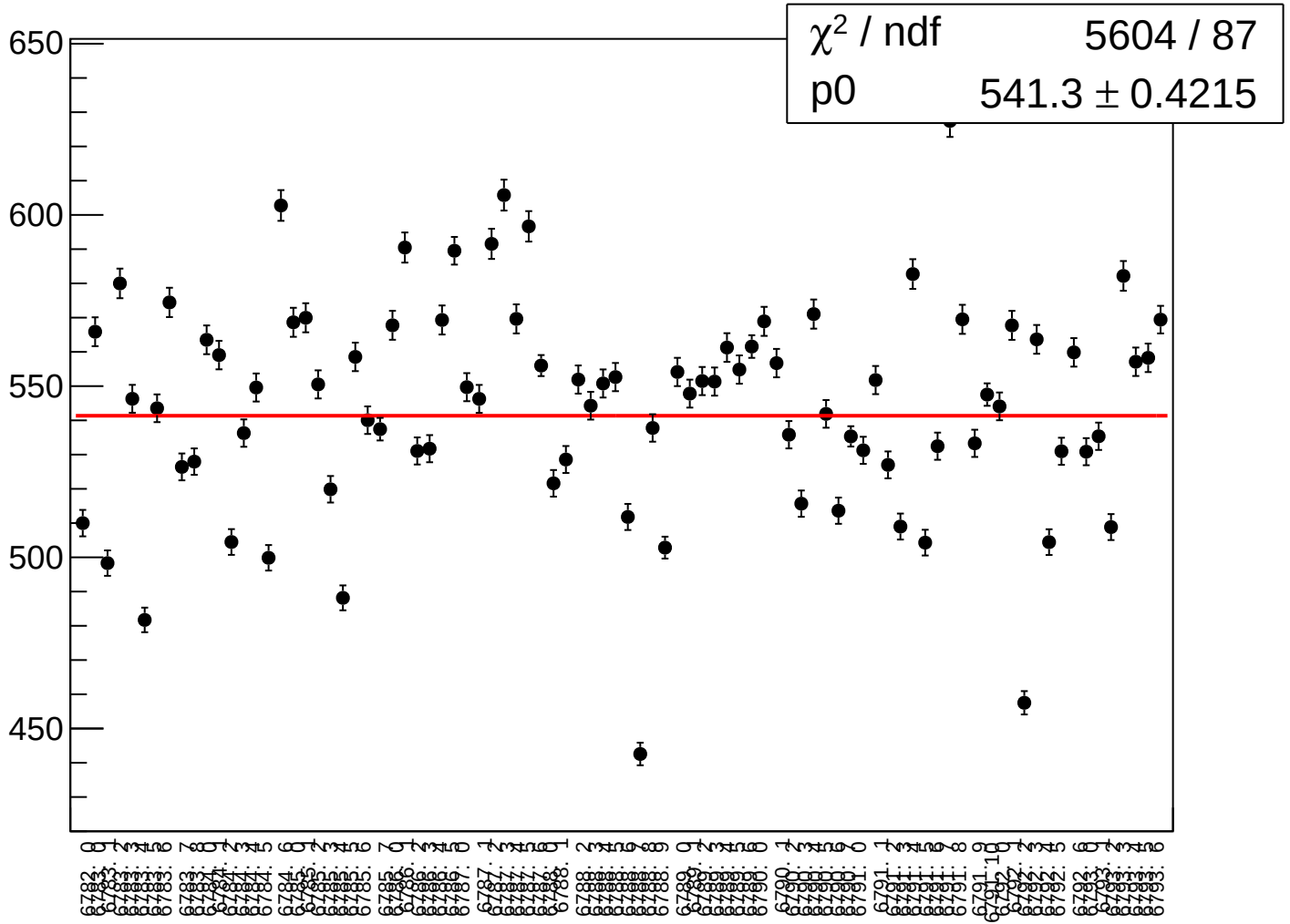

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.72 / 87
p0 −0.6997 ± 0.5961
pull
Entries 88
Mean 521.4
Std Dev 0

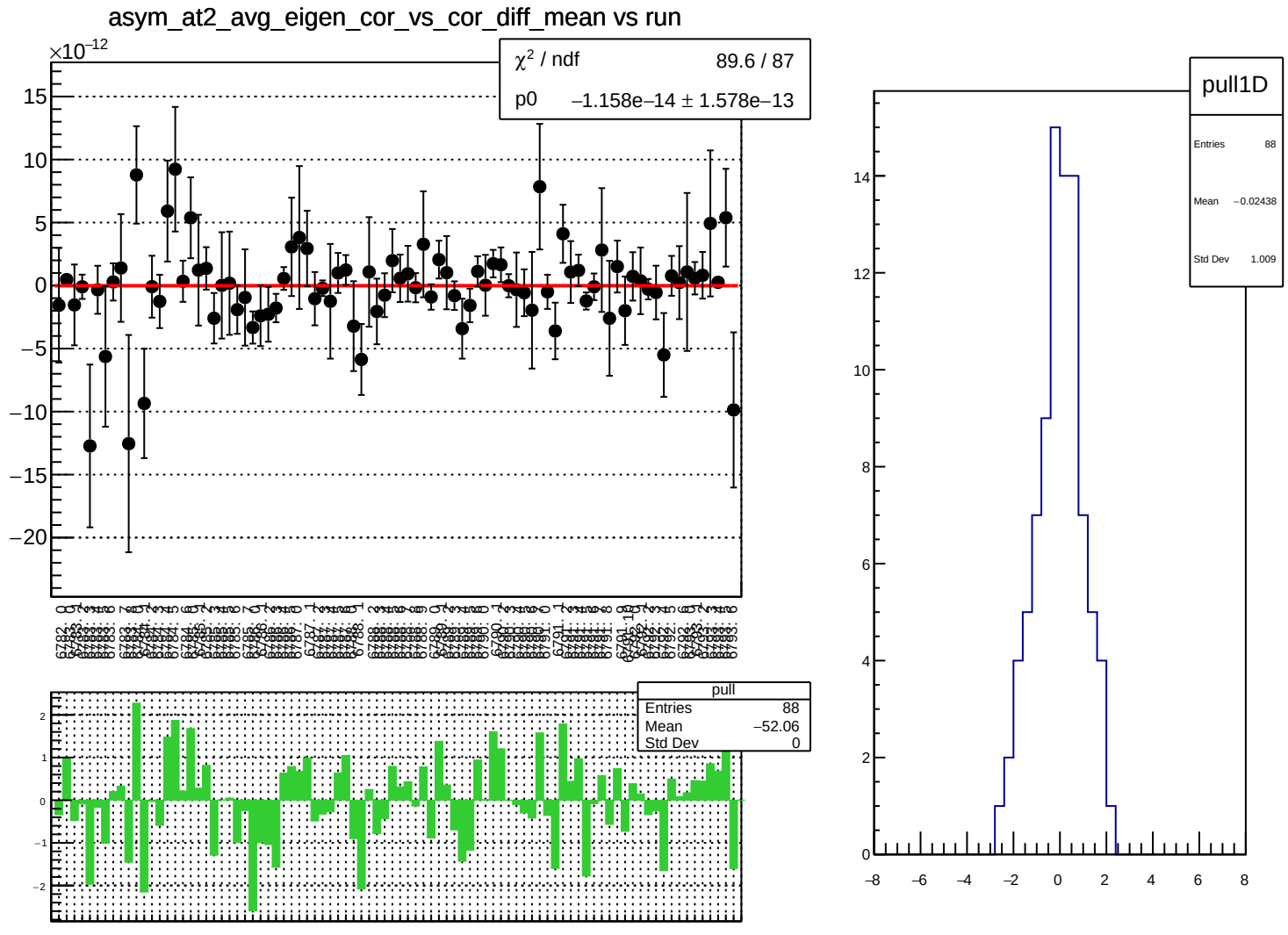

pull1D
Entries 88
Mean −0.007391
Std Dev 0.8837

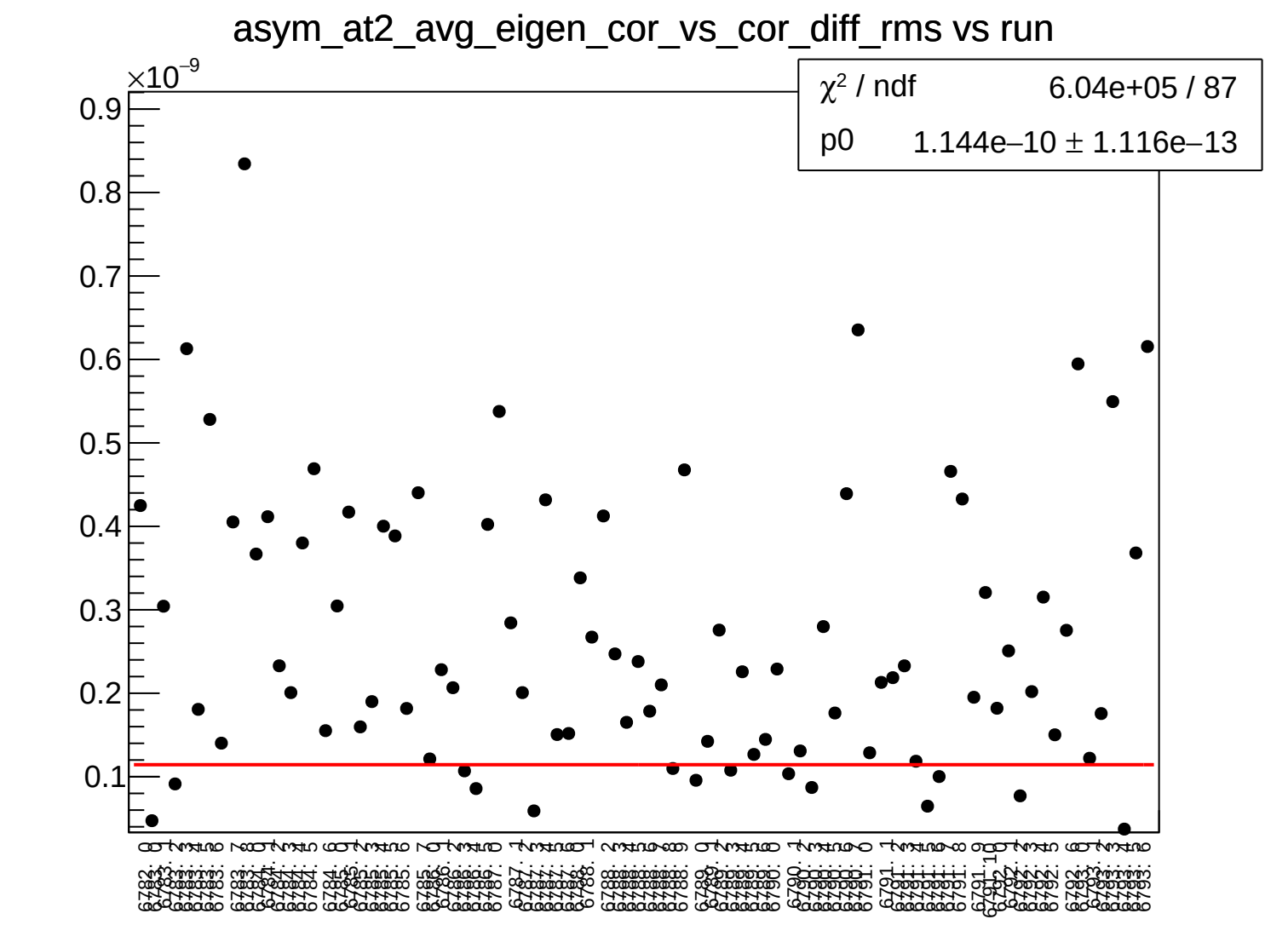

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5604 / 87
p0 541.3 ± 0.4215
650
600
550
500
450

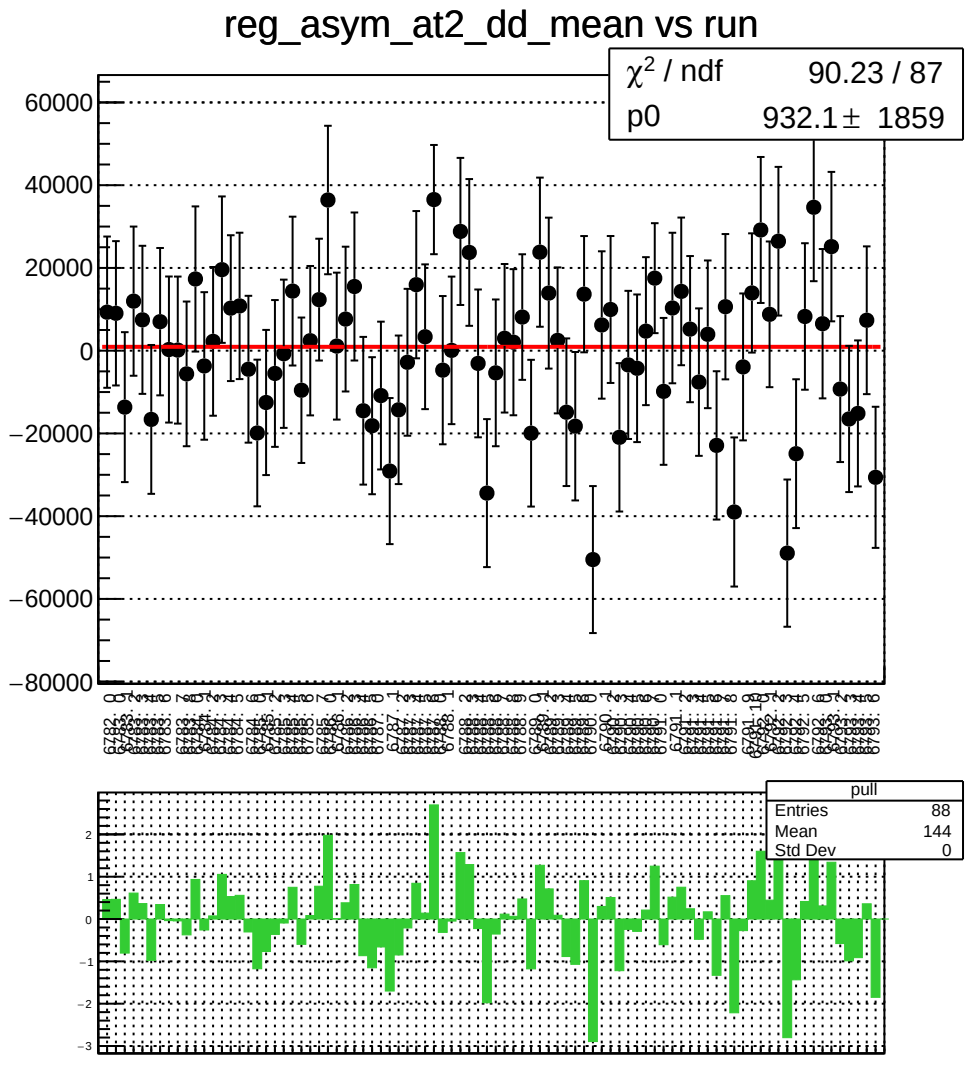

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.72 / 87
p0 −0.6997 ± 0.5961
pull
Entries 88
Mean 521.4
Std Dev 0

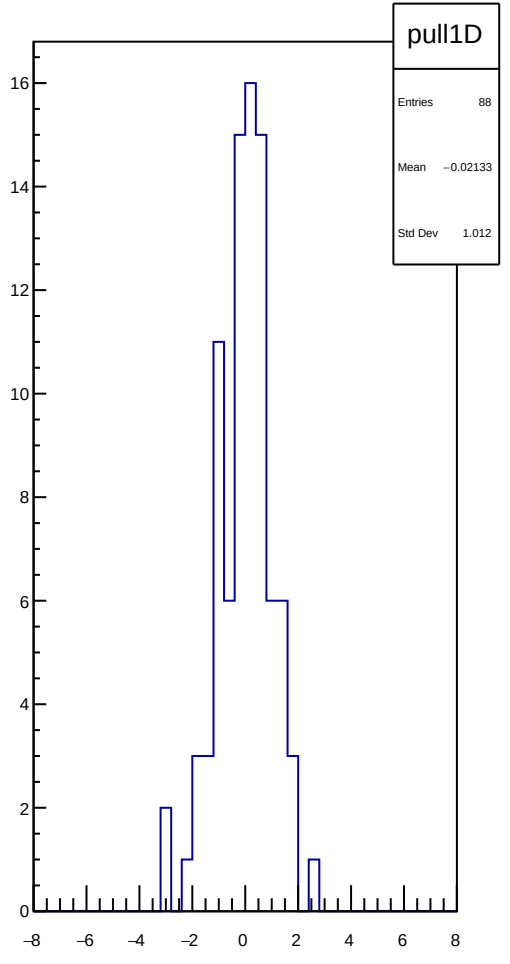

pull1D
Entries 88
Mean −0.007391
Std Dev 0.8837

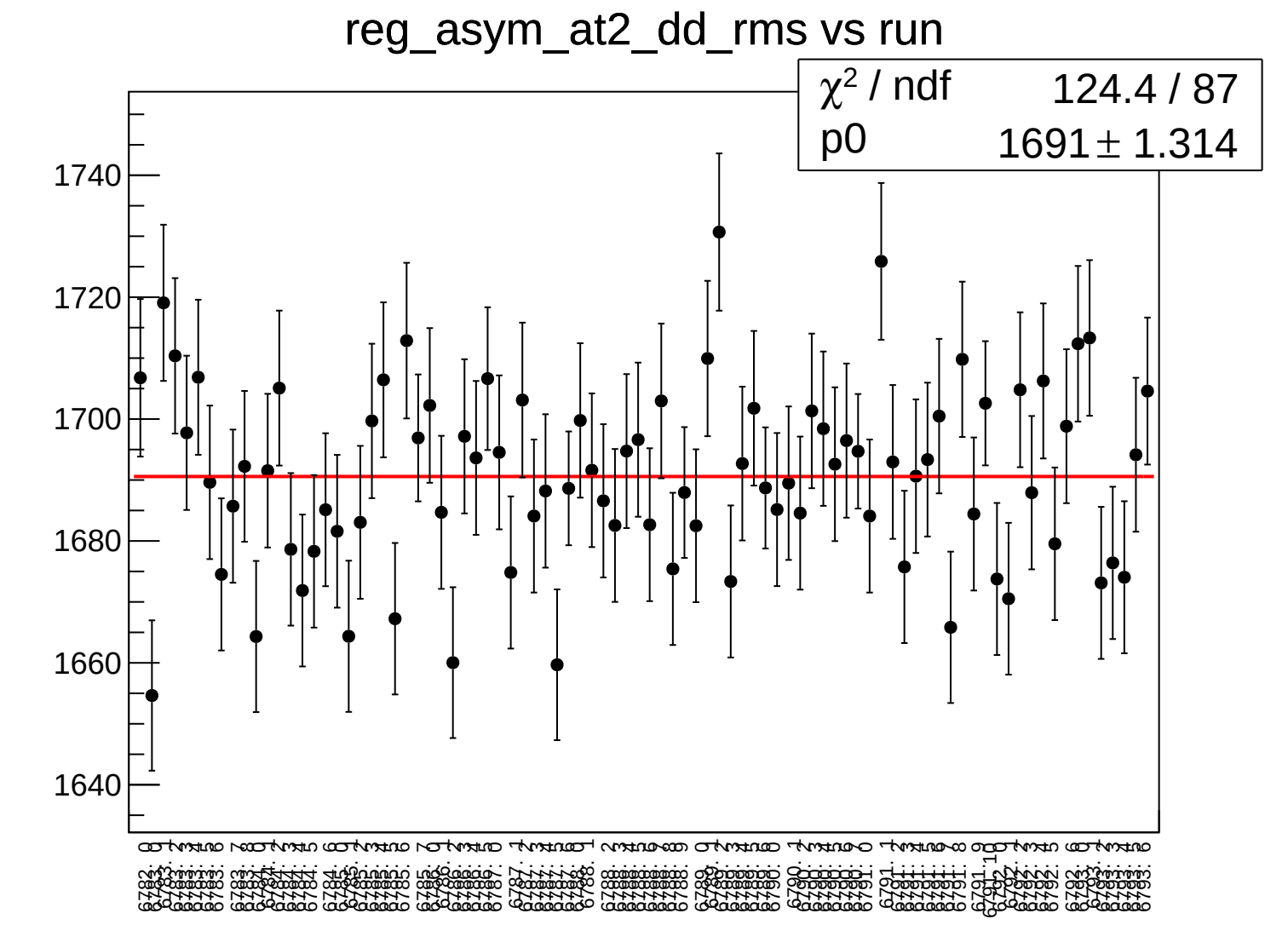

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5604 / 87
p0 541.3 ± 0.4215
650
600
550
500
450

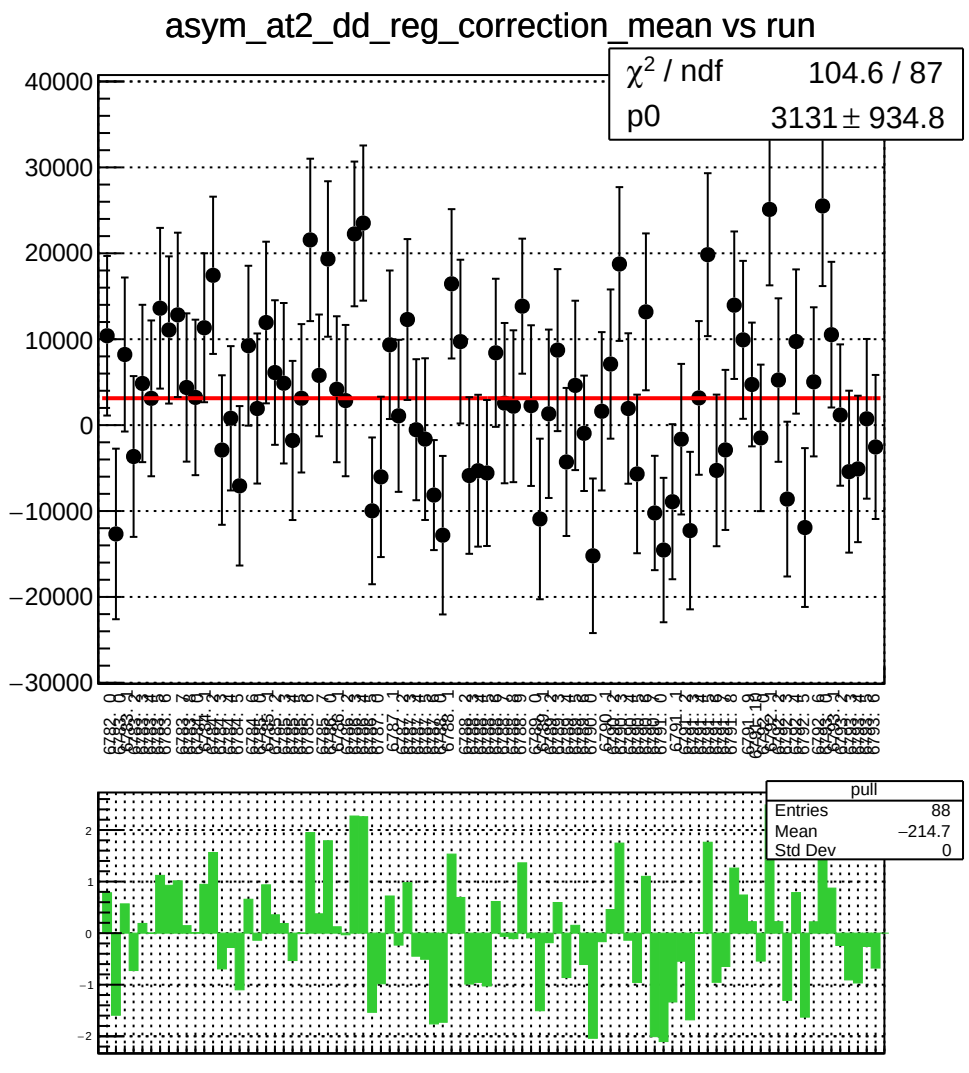

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.6 / 87
p0 −1.158e−14 ± 1.578e−13
pull
Entries 88
Mean −52.06
Std Dev 0
pull1D
Entries 88
Mean −0.02438
Std Dev 1.009

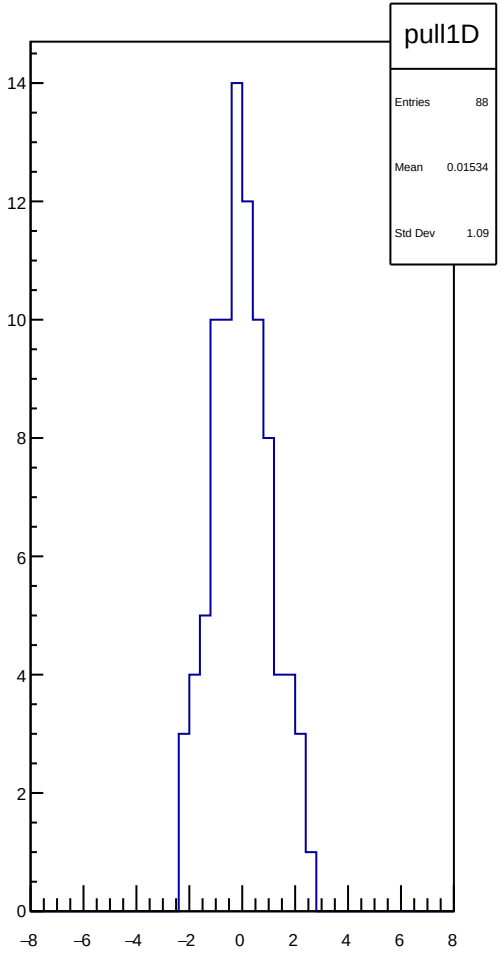

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.04e+05 / 87
p0 1.144e−10 ± 1.116e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

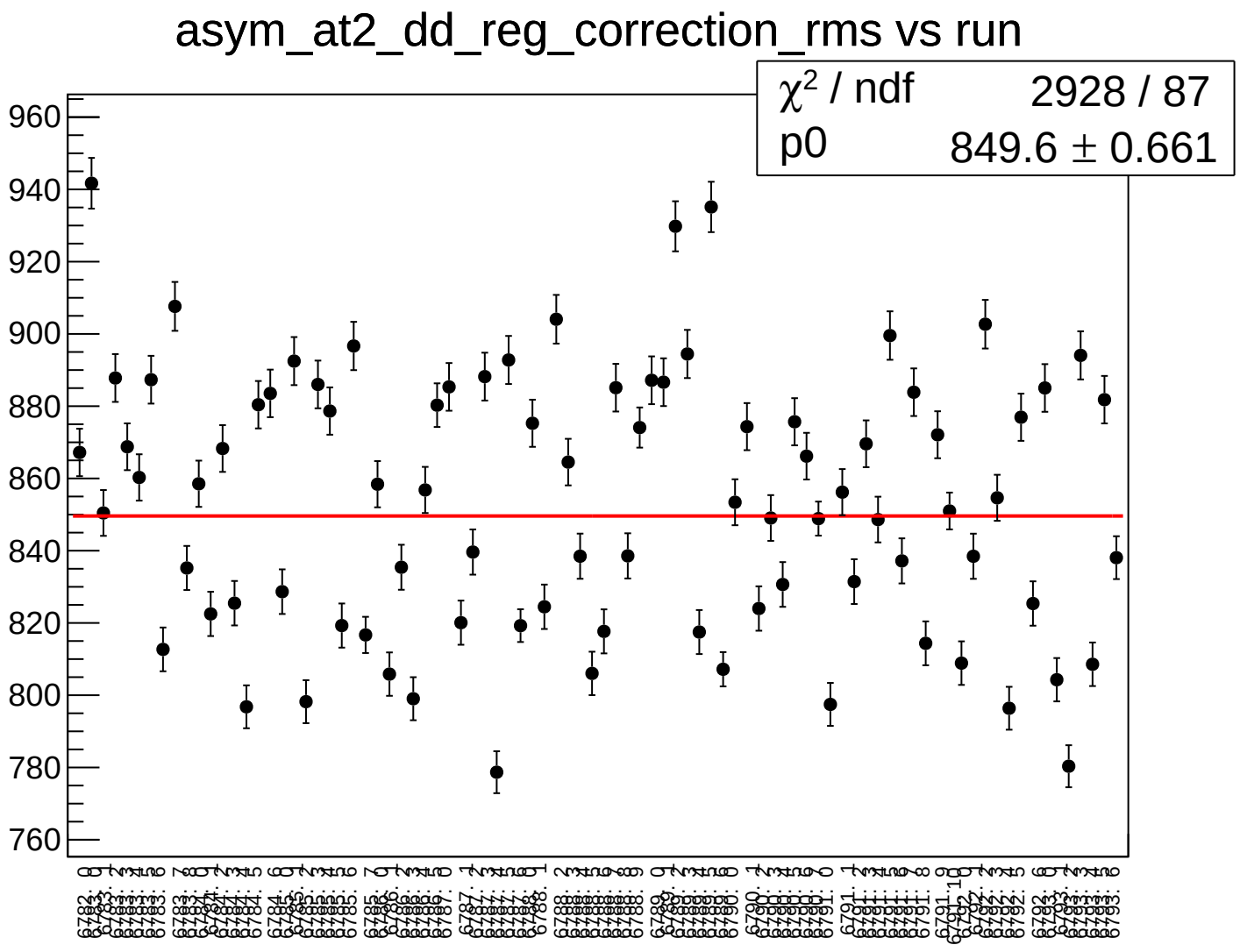

reg_asym_at2_dd_mean vs run
χ² / ndf 90.23 / 87
p0 932.1 ± 1859
pull
Entries 88
Mean 144
Std Dev 0

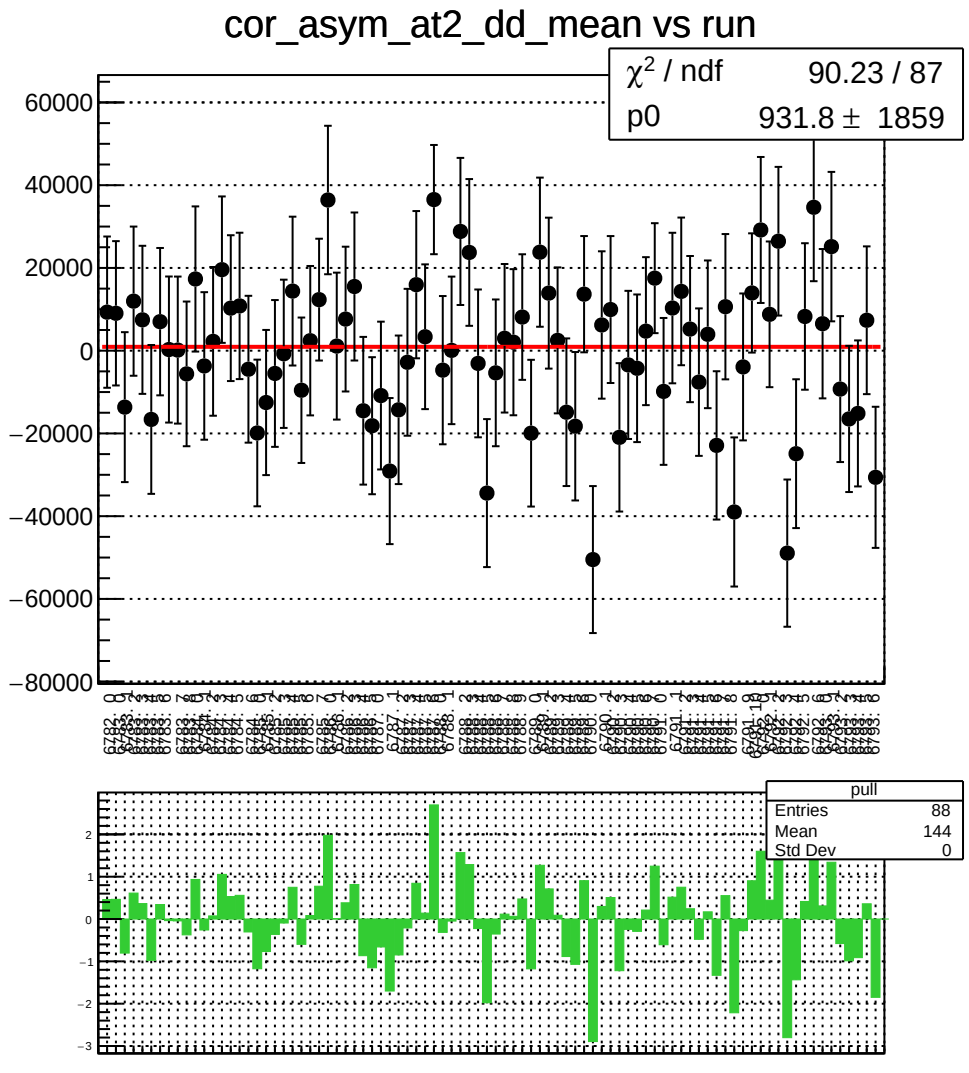

pull1D
Entries 88
Mean −0.02133
Std Dev 1.012

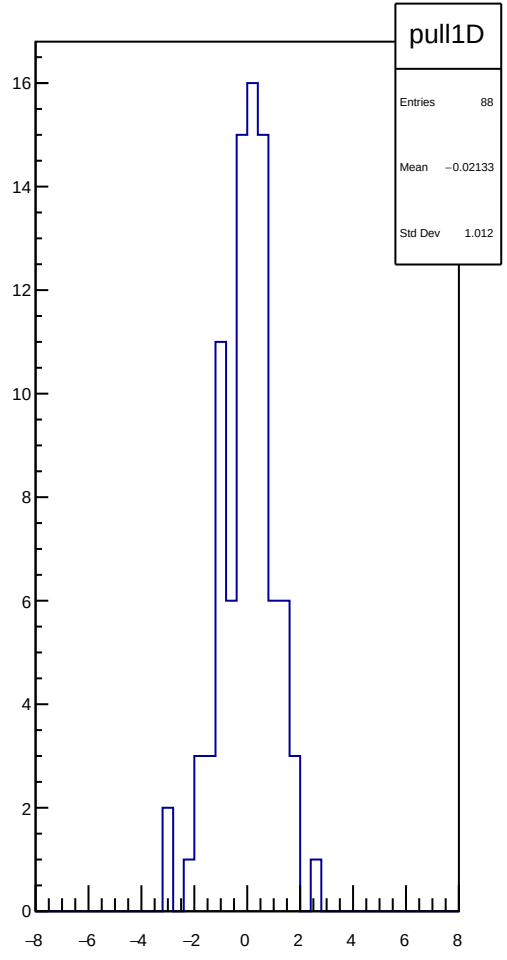

reg_asym_at2_dd_rms vs run
χ^2 / ndf 124.4 / 87
p0 1691 ± 1.314
1740
1720
1700
1680
1660
1640

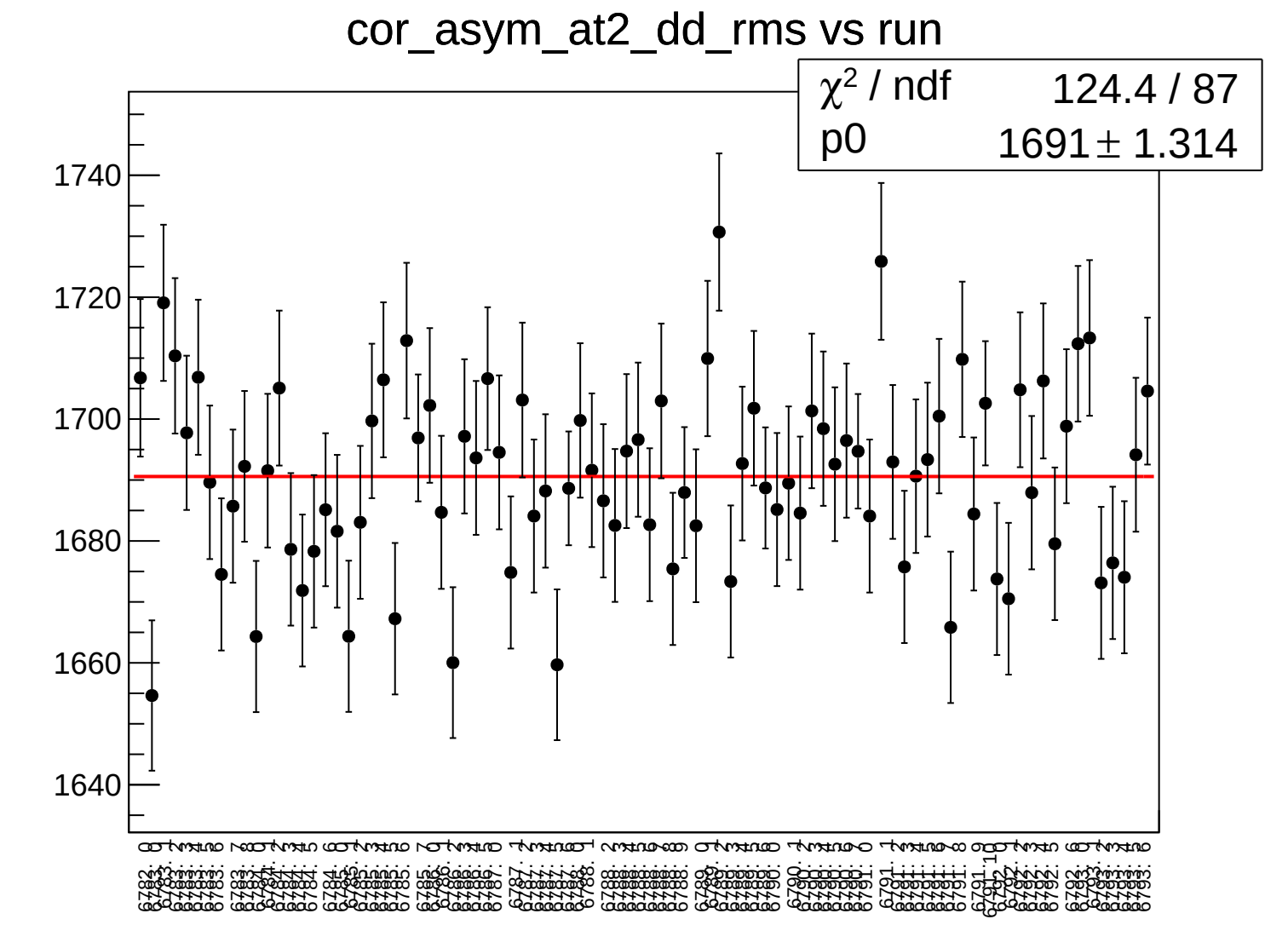

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 104.6 / 87
p0 3131 ± 934.8
pull
Entries 88
Mean −214.7
Std Dev 0

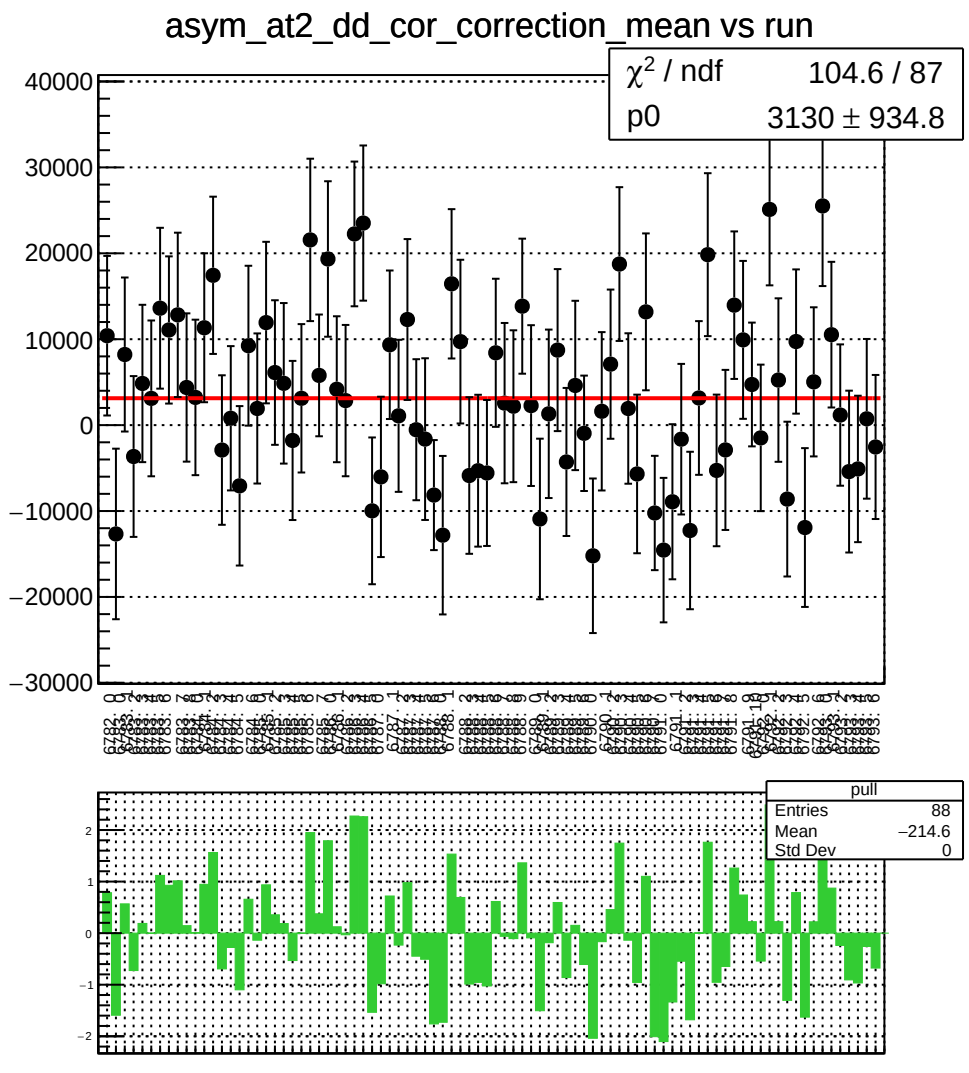

pull1D
Entries 88
Mean 0.01534
Std Dev 1.09

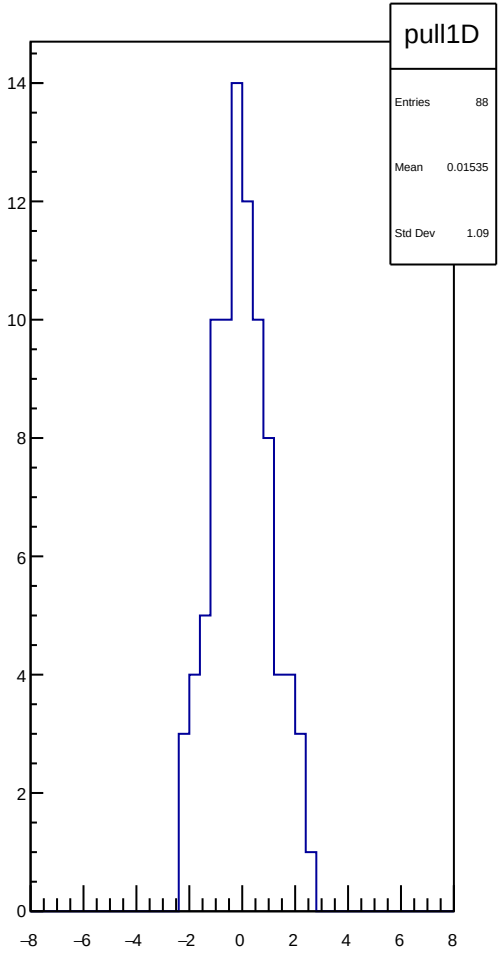

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2928 / 87
p0 849.6 ± 0.661
960
940
920
900
880
860
840
820
800
780
760

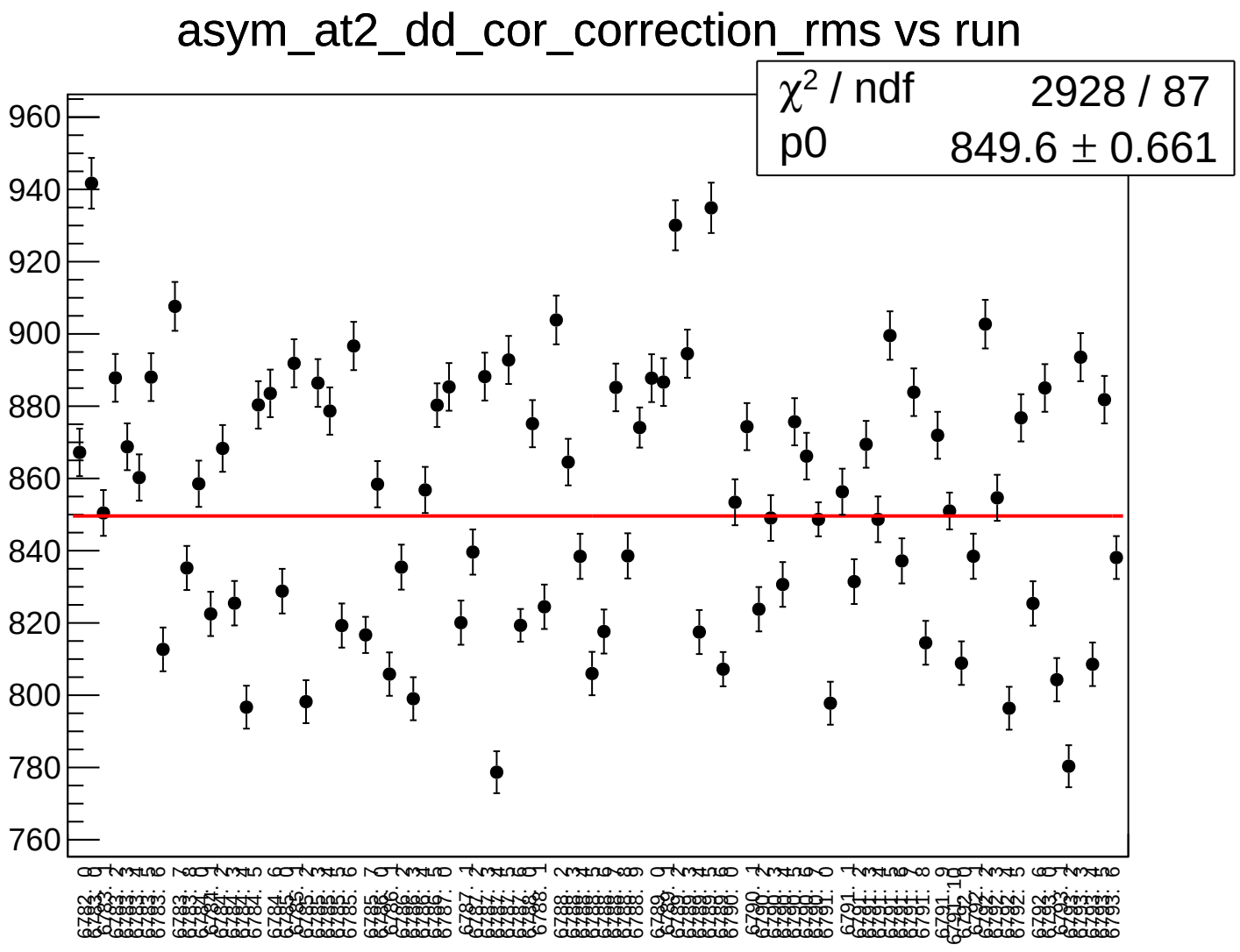

cor_asym_at2_dd_mean vs run
χ² / ndf 90.23 / 87
p0 931.8 ± 1859
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 144
Std Dev 0
2
1
0
−1
−2
−3

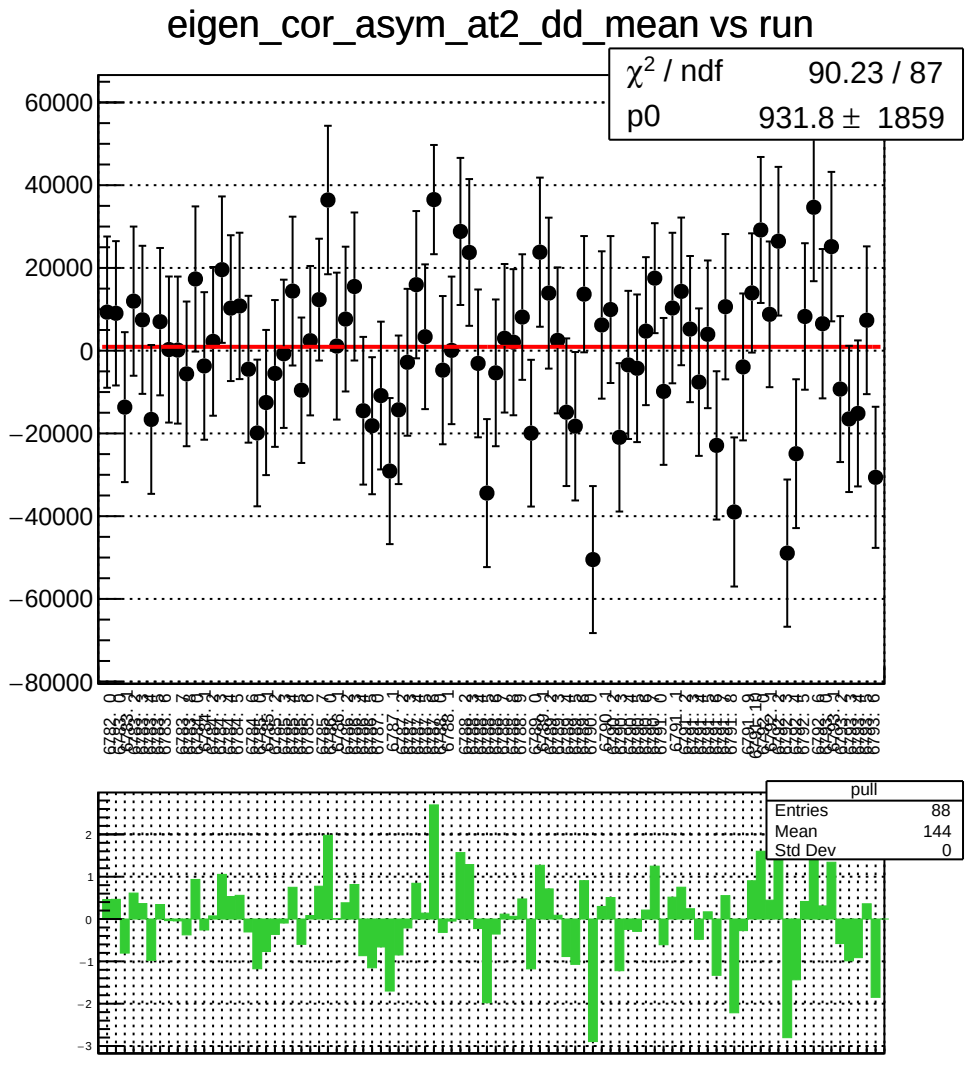

pull1D
Entries 88
Mean −0.02133
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

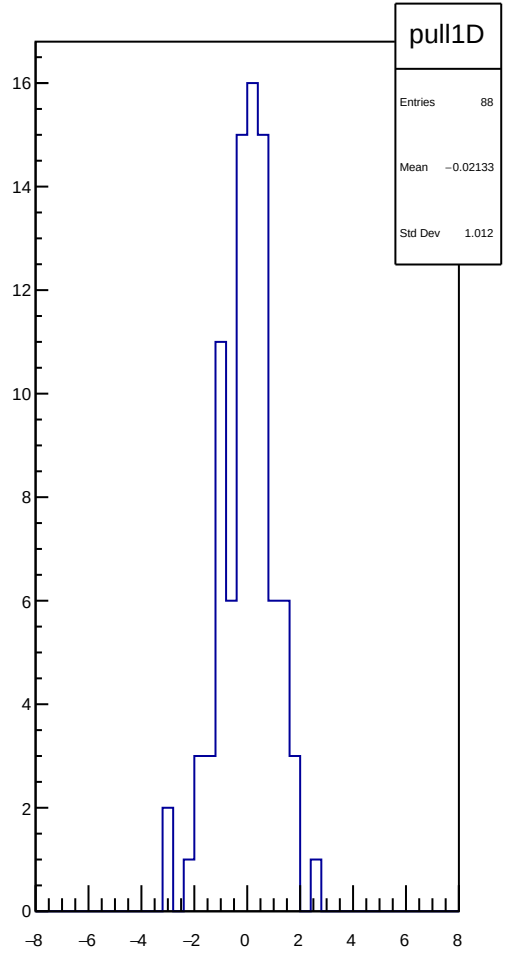

cor_asym_at2_dd_rms vs run
χ² / ndf 124.4 / 87
p0 1691 ± 1.314
1740
1720
1700
1680
1660
1640

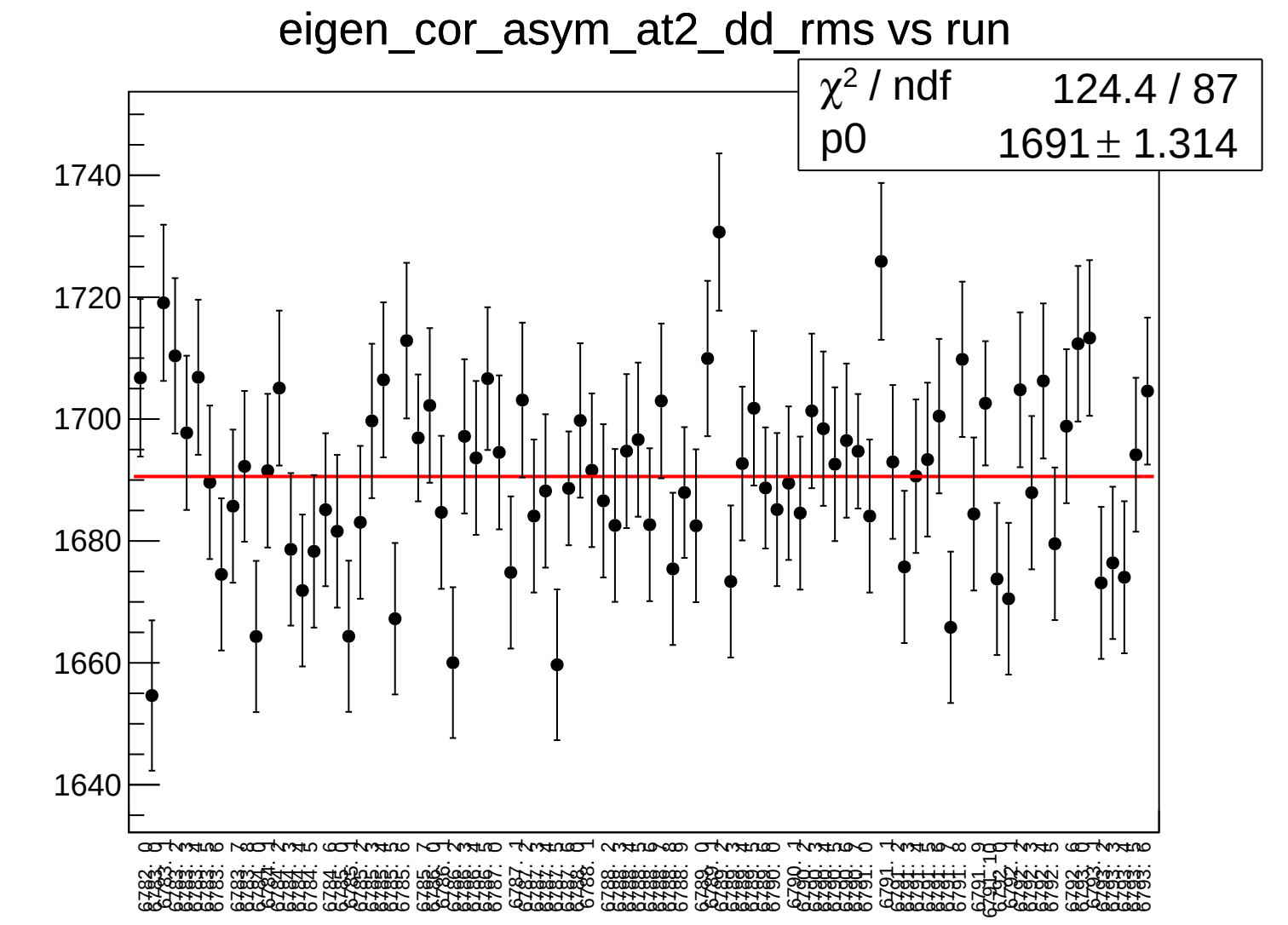

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 104.6 / 87
p0 3130 ± 934.8
pull
Entries 88
Mean −214.6
Std Dev 0

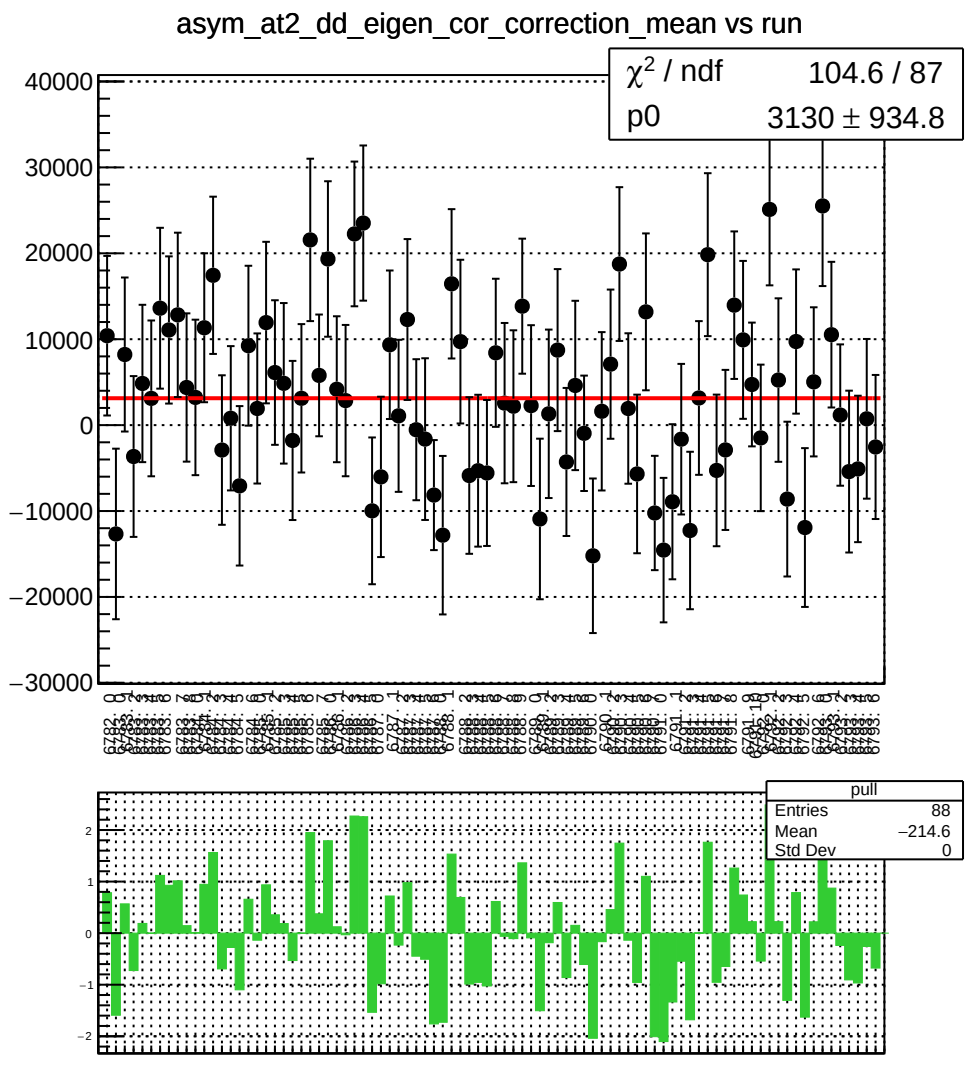

pull1D
Entries 88
Mean 0.01535
Std Dev 1.09

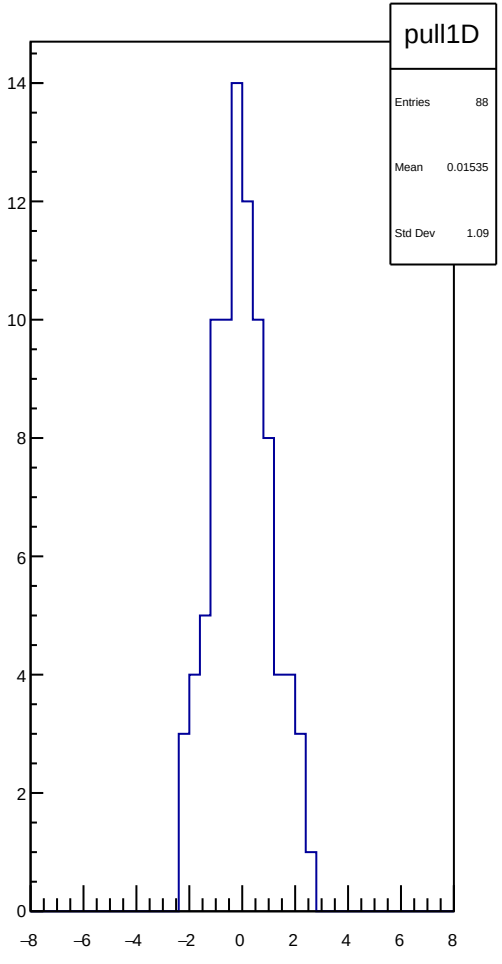

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2928 / 87
p0 849.6 ± 0.661
960
940
920
900
880
860
840
820
800
780
760

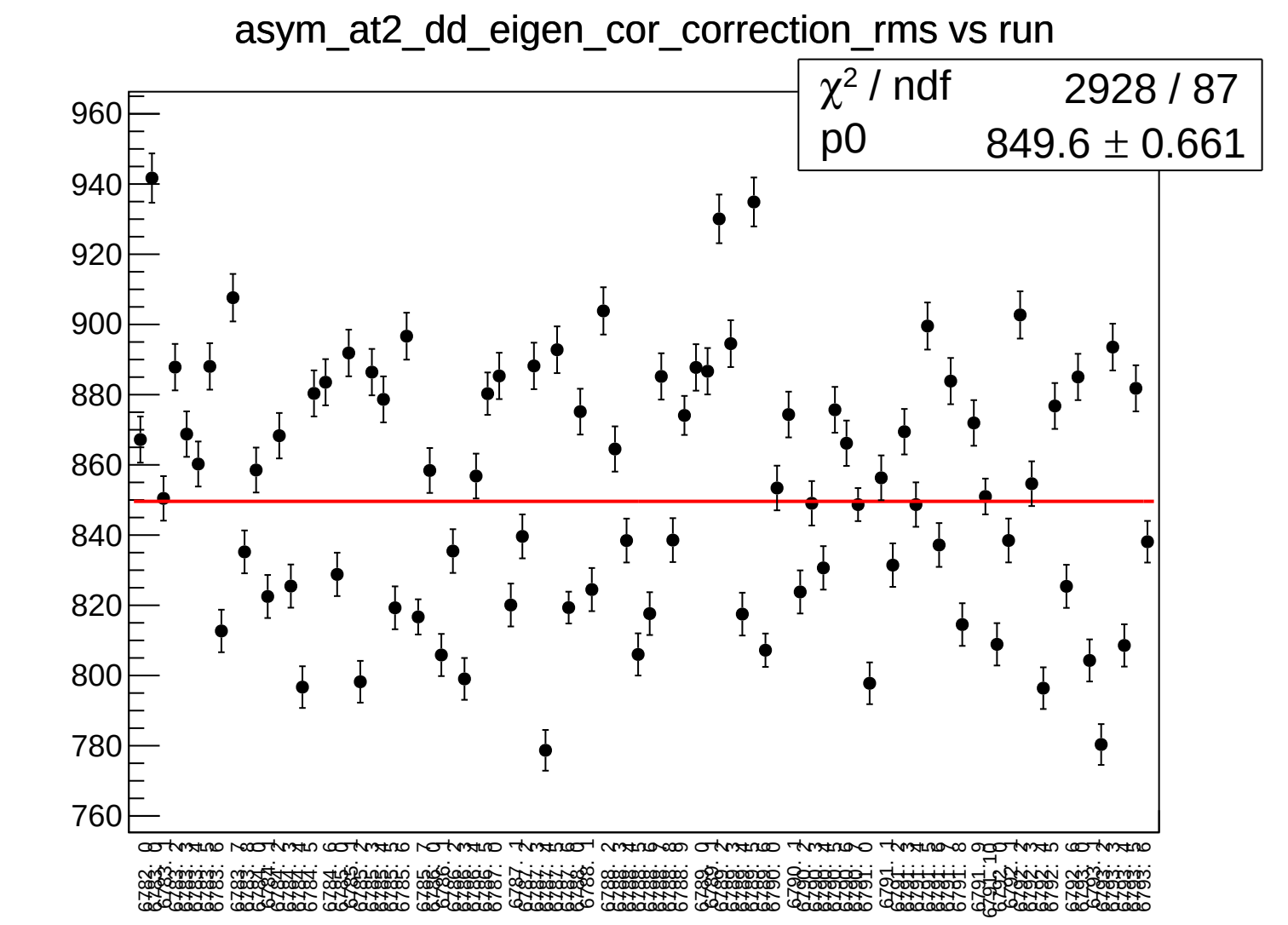

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 90.23 / 87
p0 931.8 ± 1859
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 144
Std Dev 0
2
1
0
−1
−2
−3

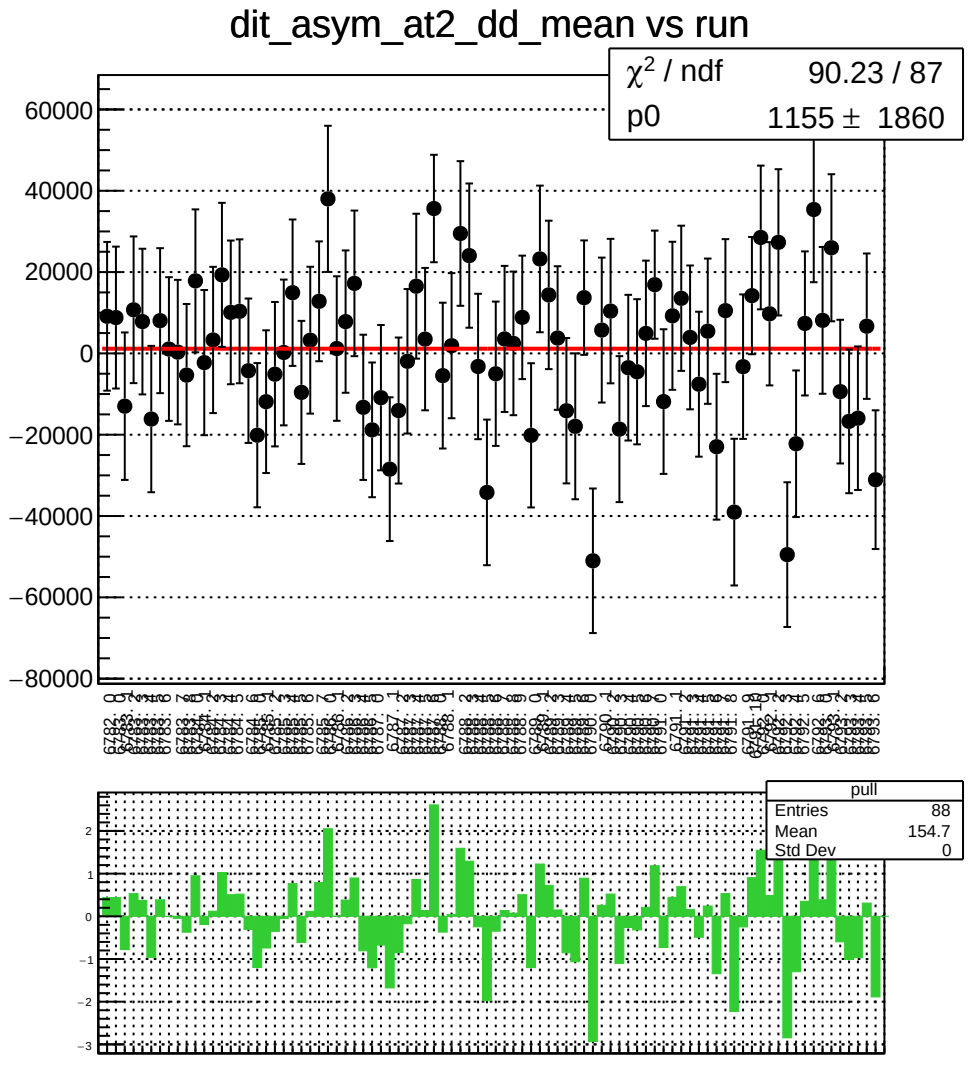

pull1D
Entries 88
Mean −0.02133
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

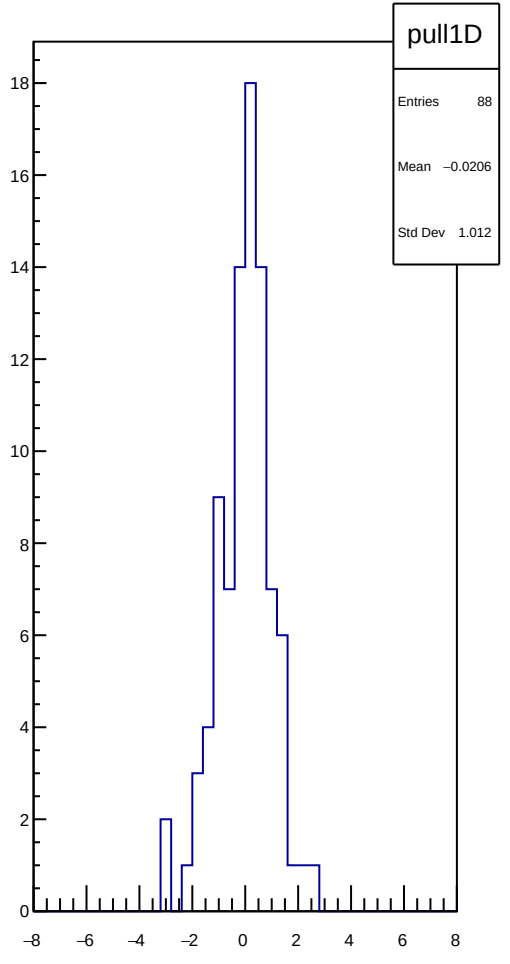

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 124.4 / 87
p0 1691 ± 1.314
1740
1720
1700
1680
1660
1640

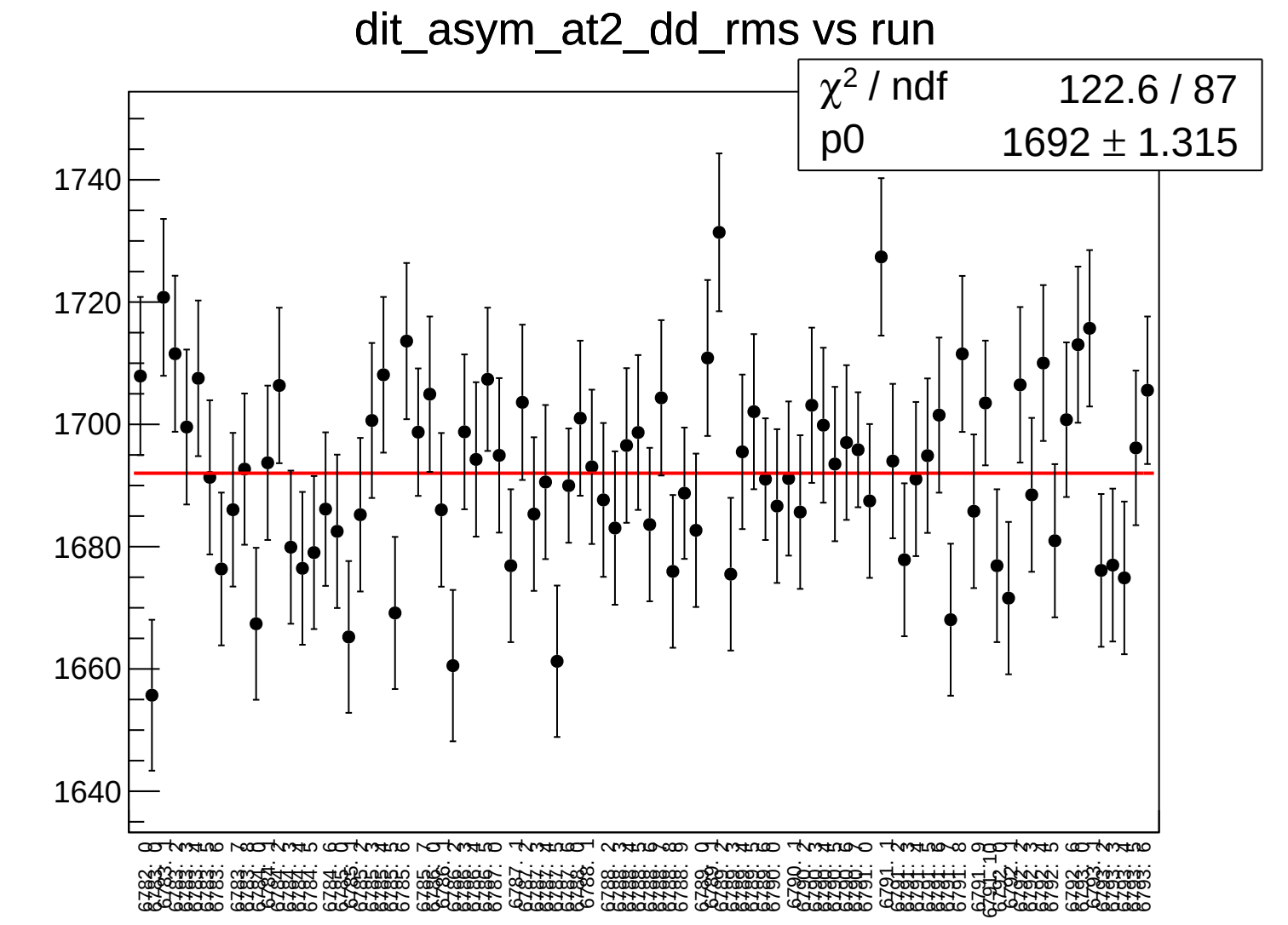

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.6 / 87
p0 3130 ± 934.8
pull
Entries 88
Mean −214.6
Std Dev 0

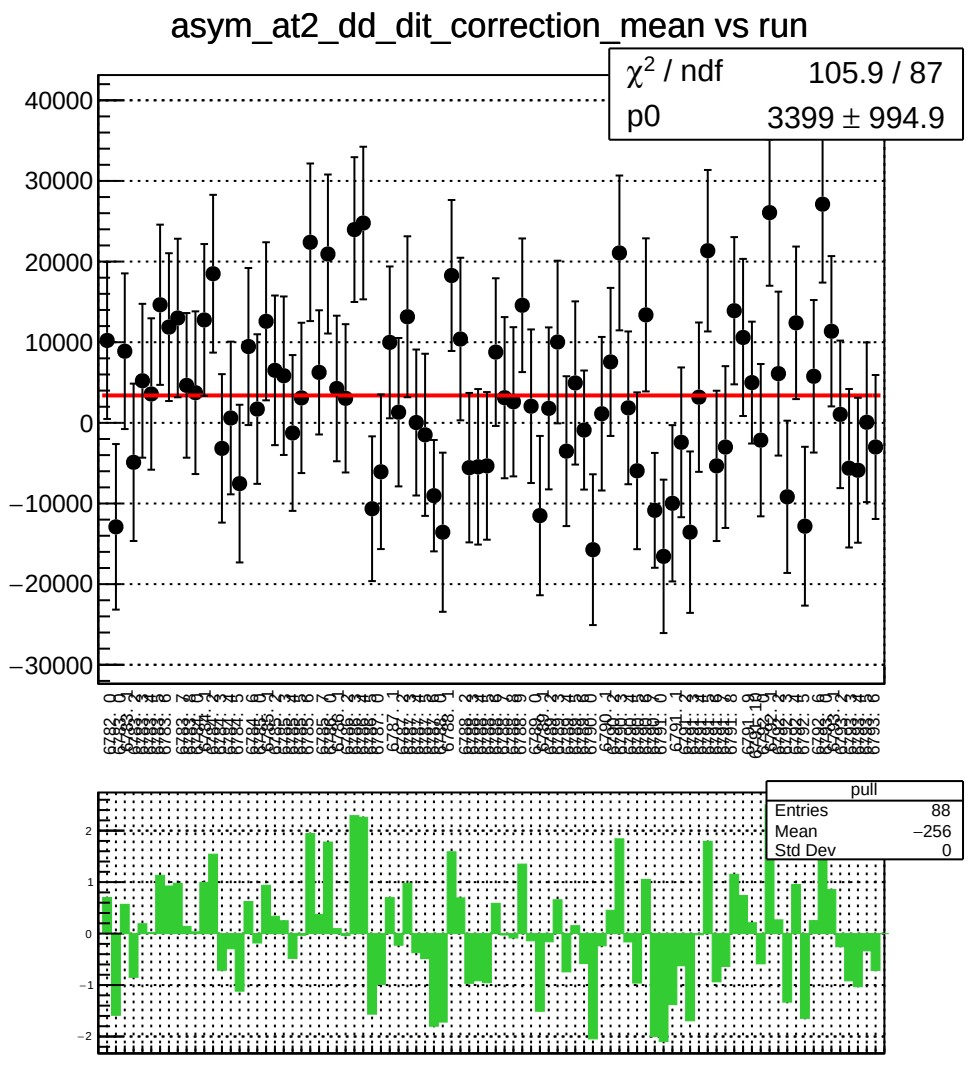

pull1D
Entries 88
Mean 0.01535
Std Dev 1.09

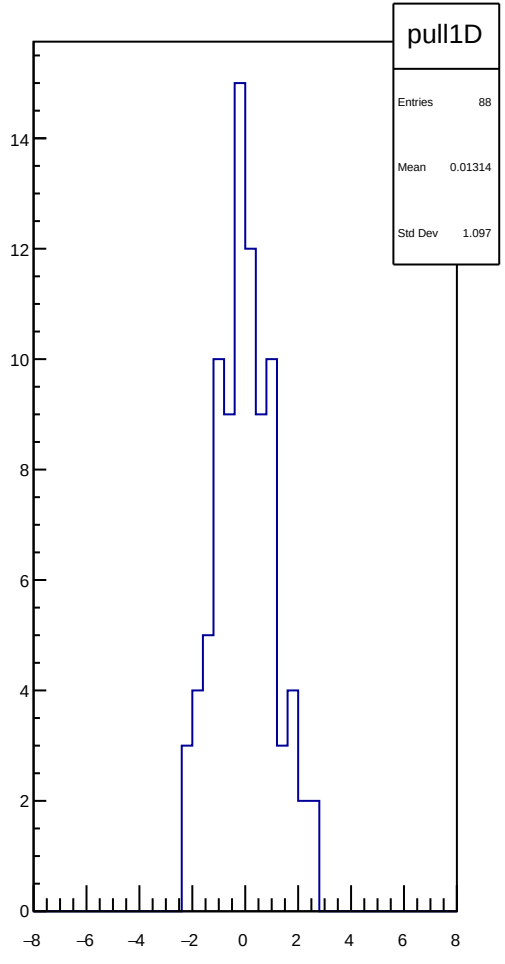

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2928 / 87
p0 849.6 ± 0.661
960
940
920
900
880
860
840
820
800
780
760

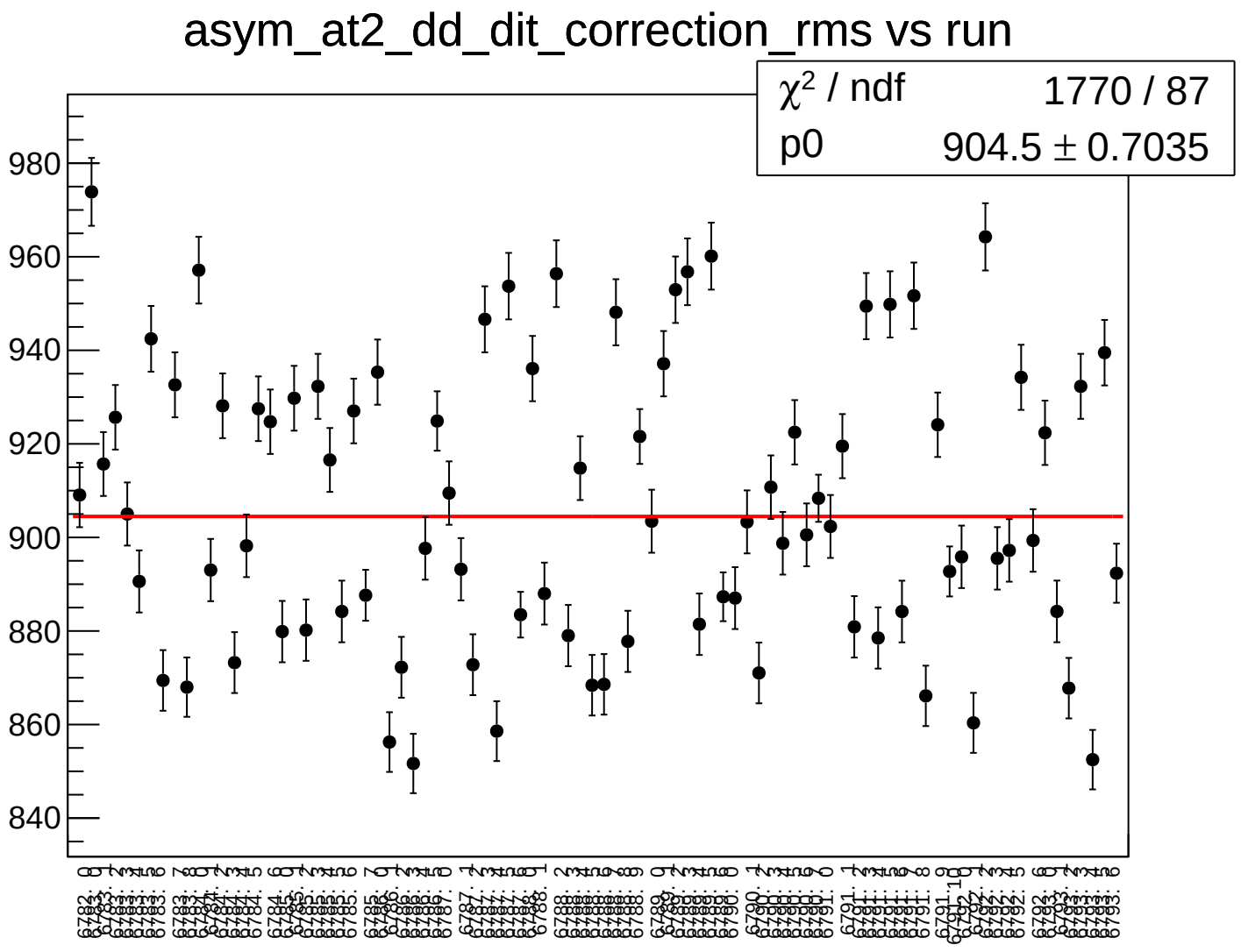

dit_asym_at2_dd_mean vs run
χ² / ndf 90.23 / 87
p0 1155 ± 1860
pull
Entries 88
Mean 154.7
Std Dev 0

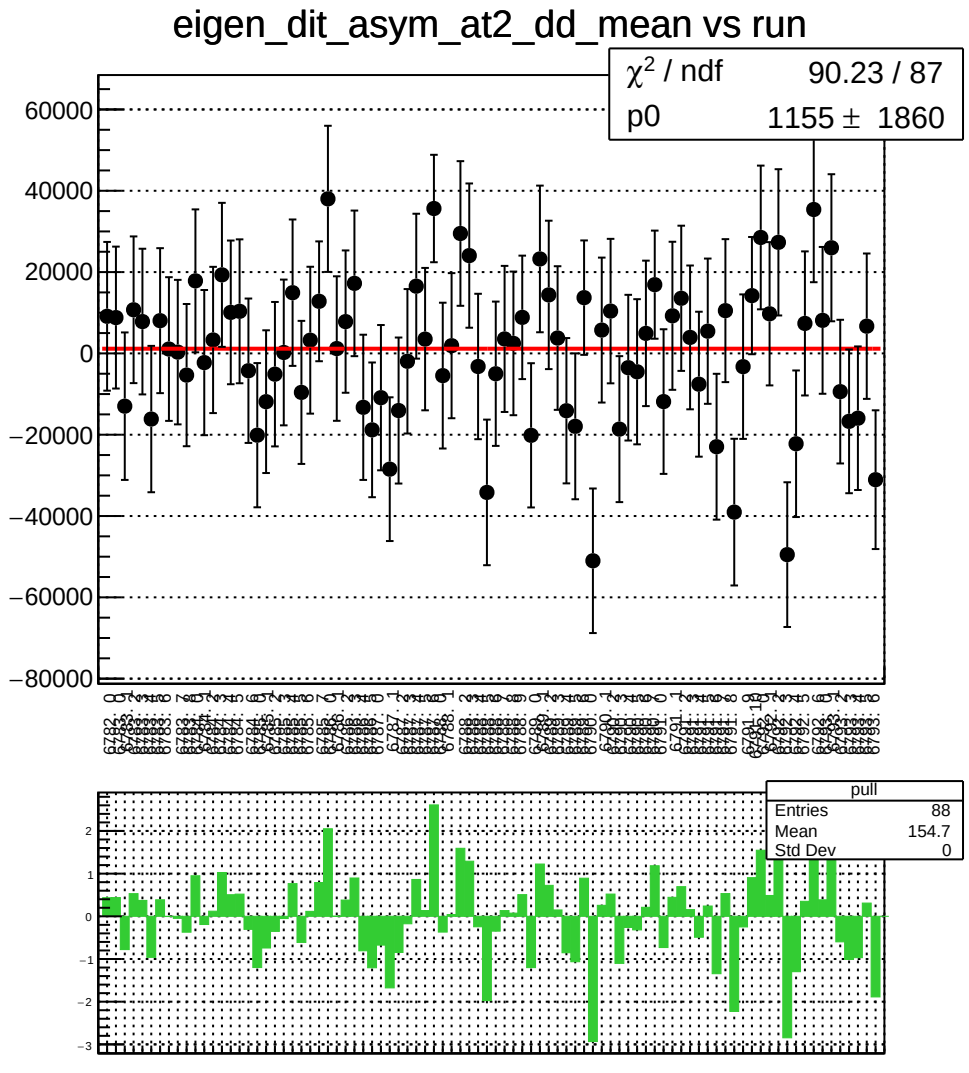

pull1D
Entries 88
Mean −0.0206
Std Dev 1.012

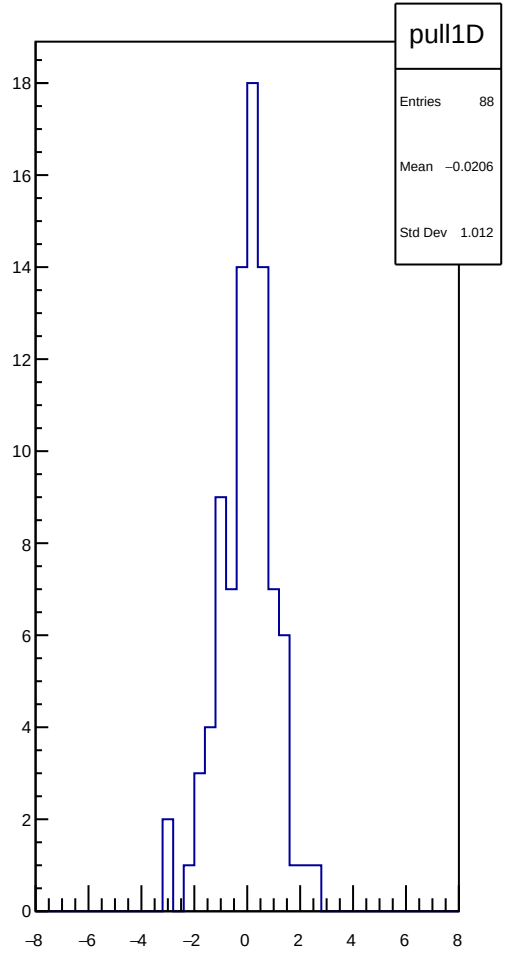

dit_asym_at2_dd_rms vs run
χ² / ndf 122.6 / 87
p0 1692 ± 1.315
1740
1720
1700
1680
1660
1640

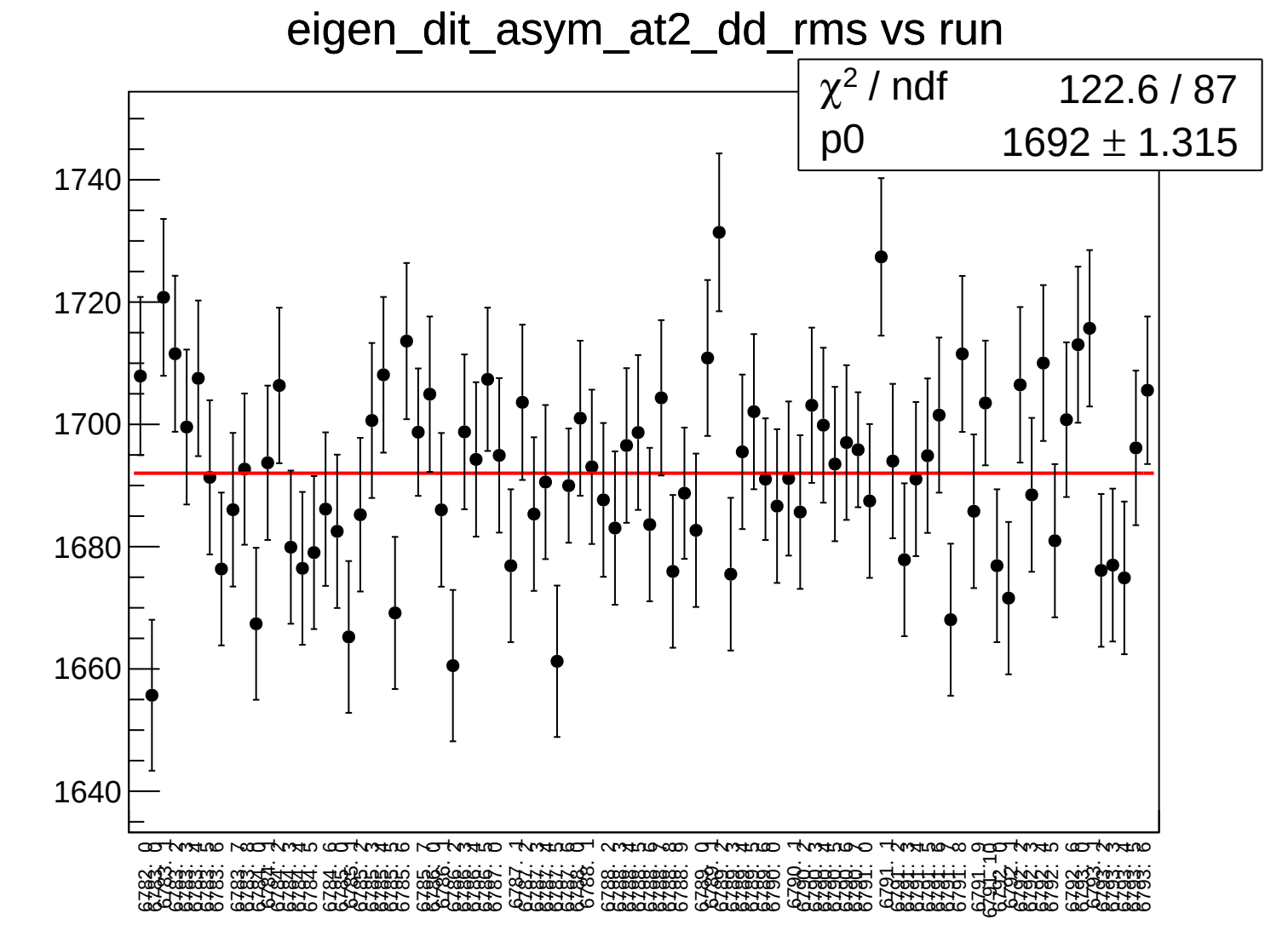

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 105.9 / 87
p0 3399 ± 994.9
pull
Entries 88
Mean −256
Std Dev 0

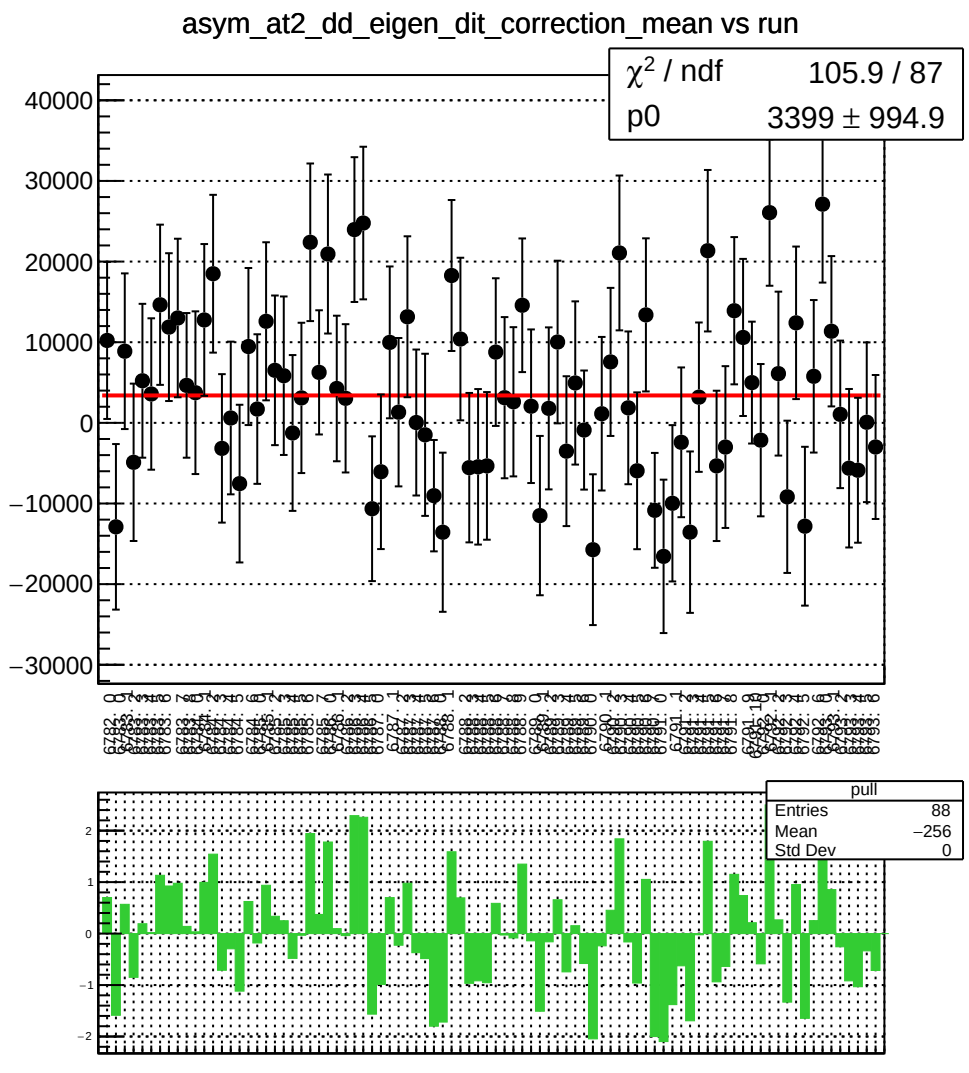

pull1D
Entries 88
Mean 0.01314
Std Dev 1.097

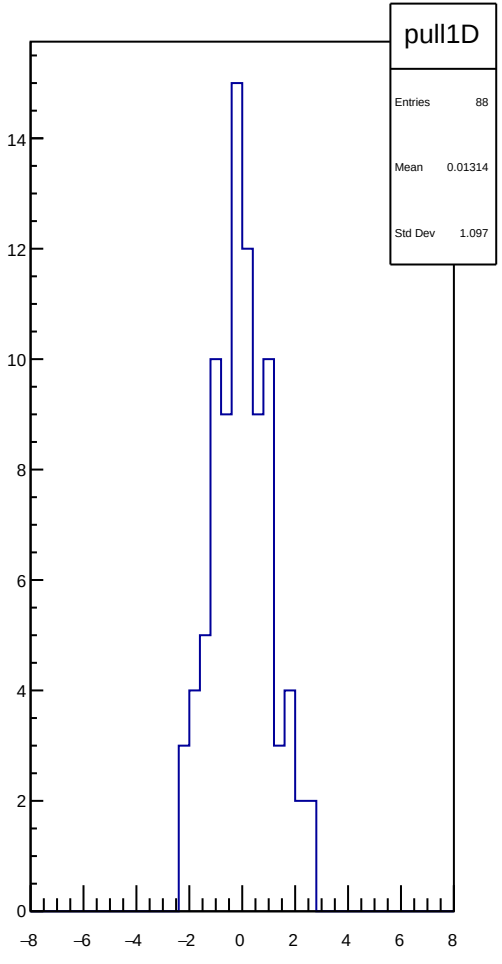

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1770 / 87
p0 904.5 ± 0.7035
980
960
940
920
900
880
860
840

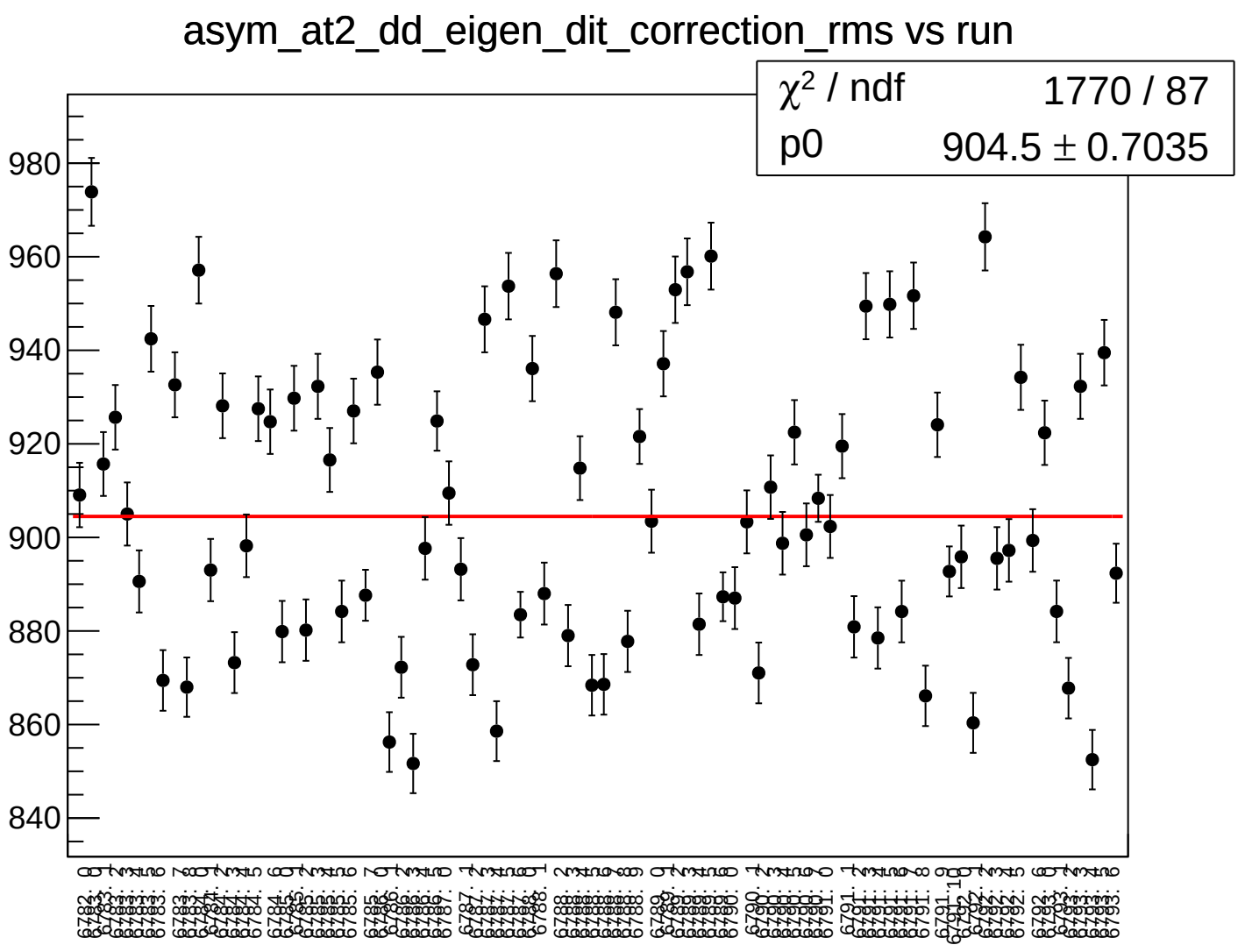

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 90.23 / 87
p0 1155 ± 1860
pull
Entries 88
Mean 154.7
Std Dev 0

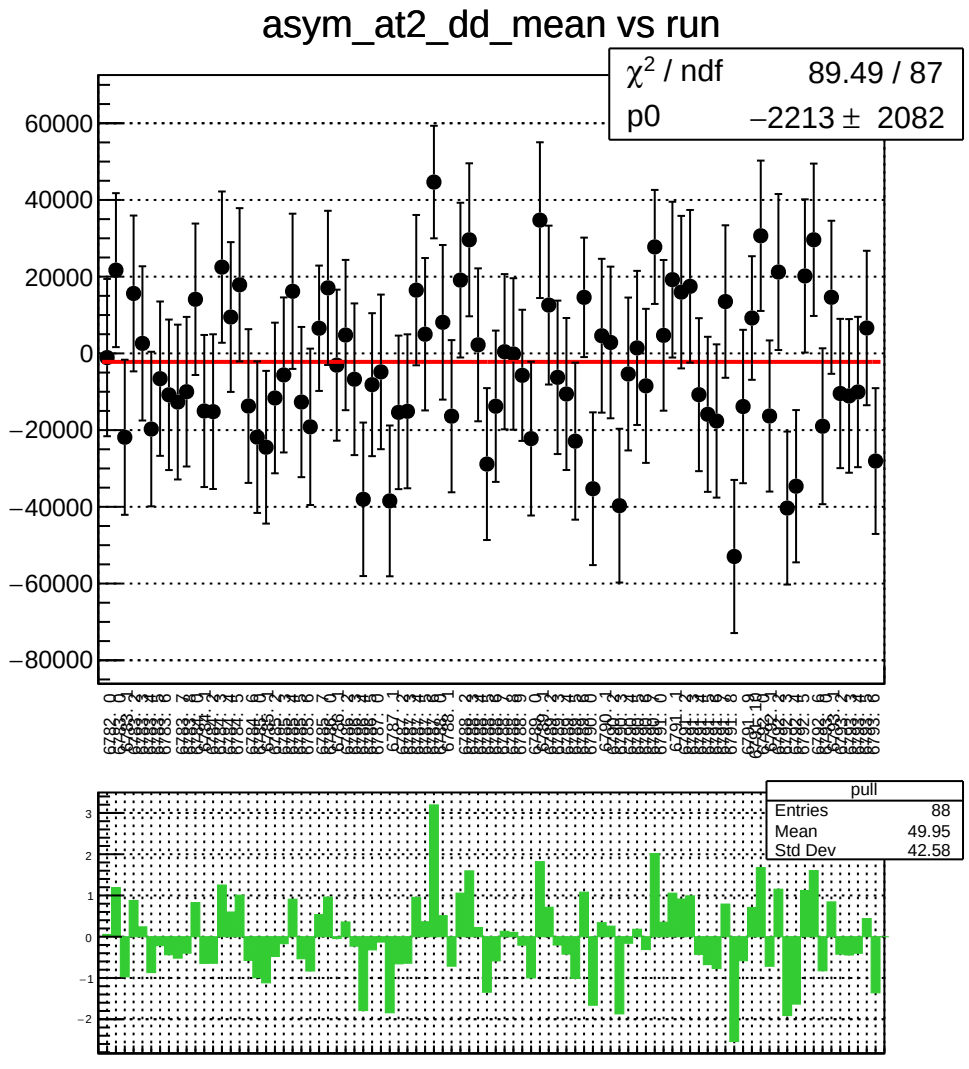

pull1D
Entries 88
Mean −0.0206
Std Dev 1.012

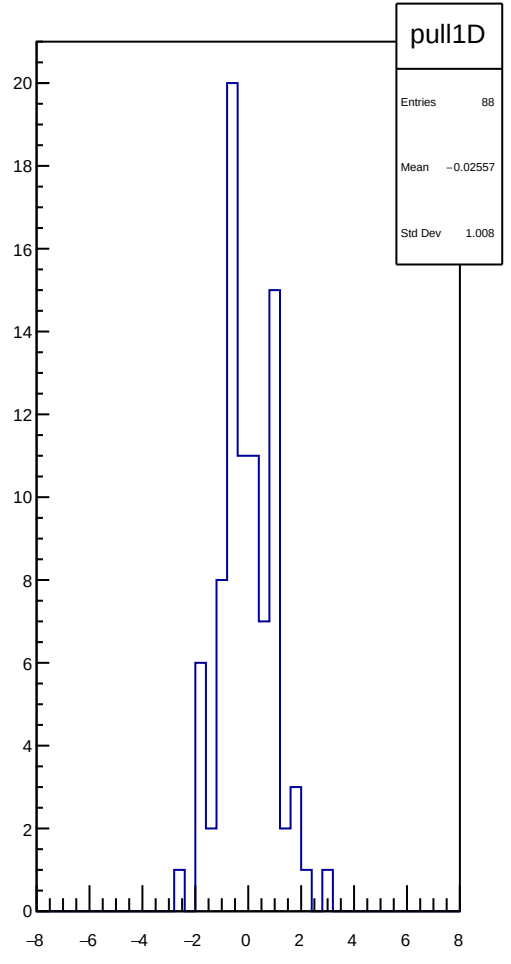

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 122.6 / 87
p0 1692 ± 1.315
1740
1720
1700
1680
1660
1640

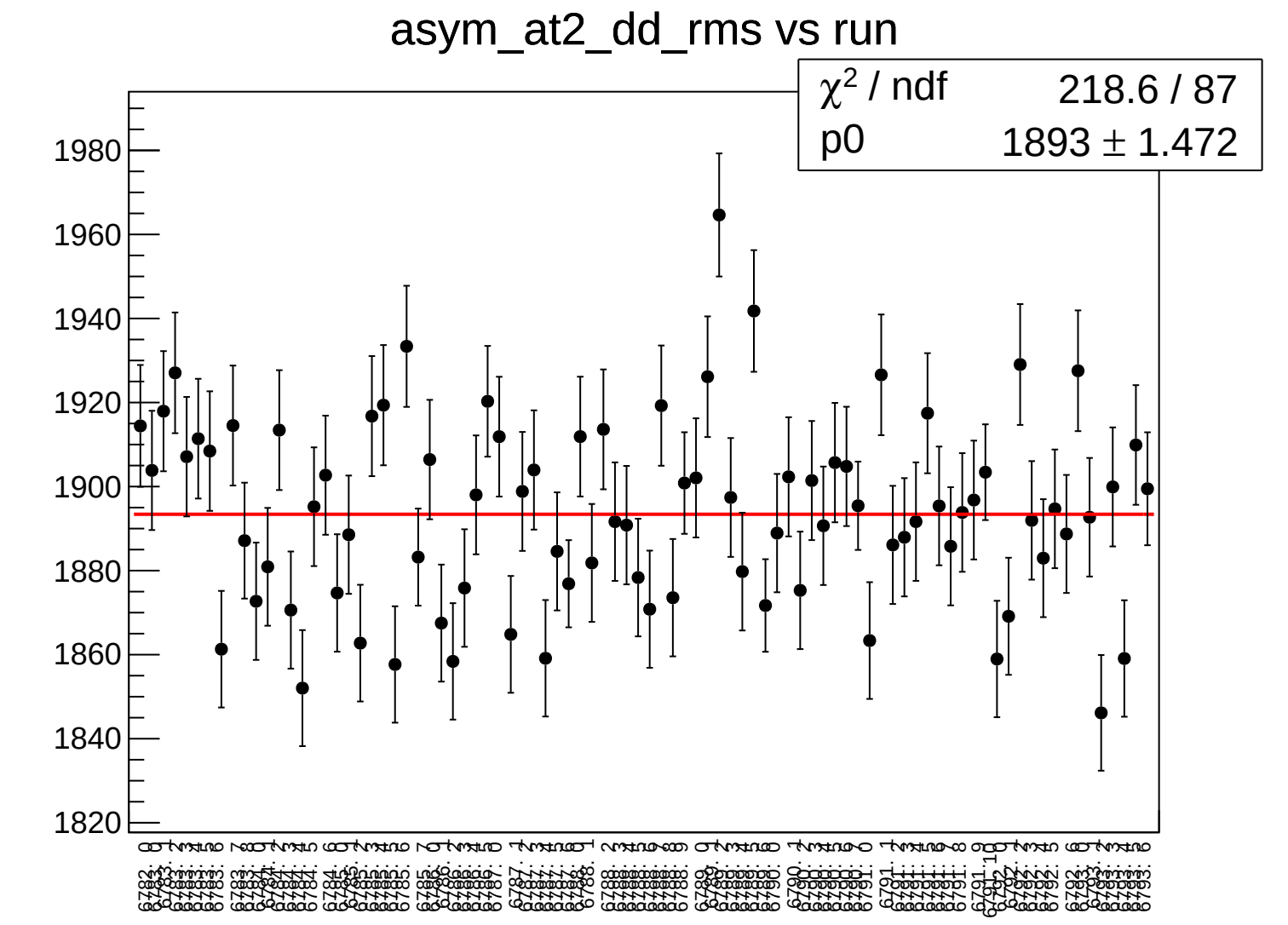

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.9 / 87
p0 3399 ± 994.9
pull
Entries 88
Mean −256
Std Dev 0

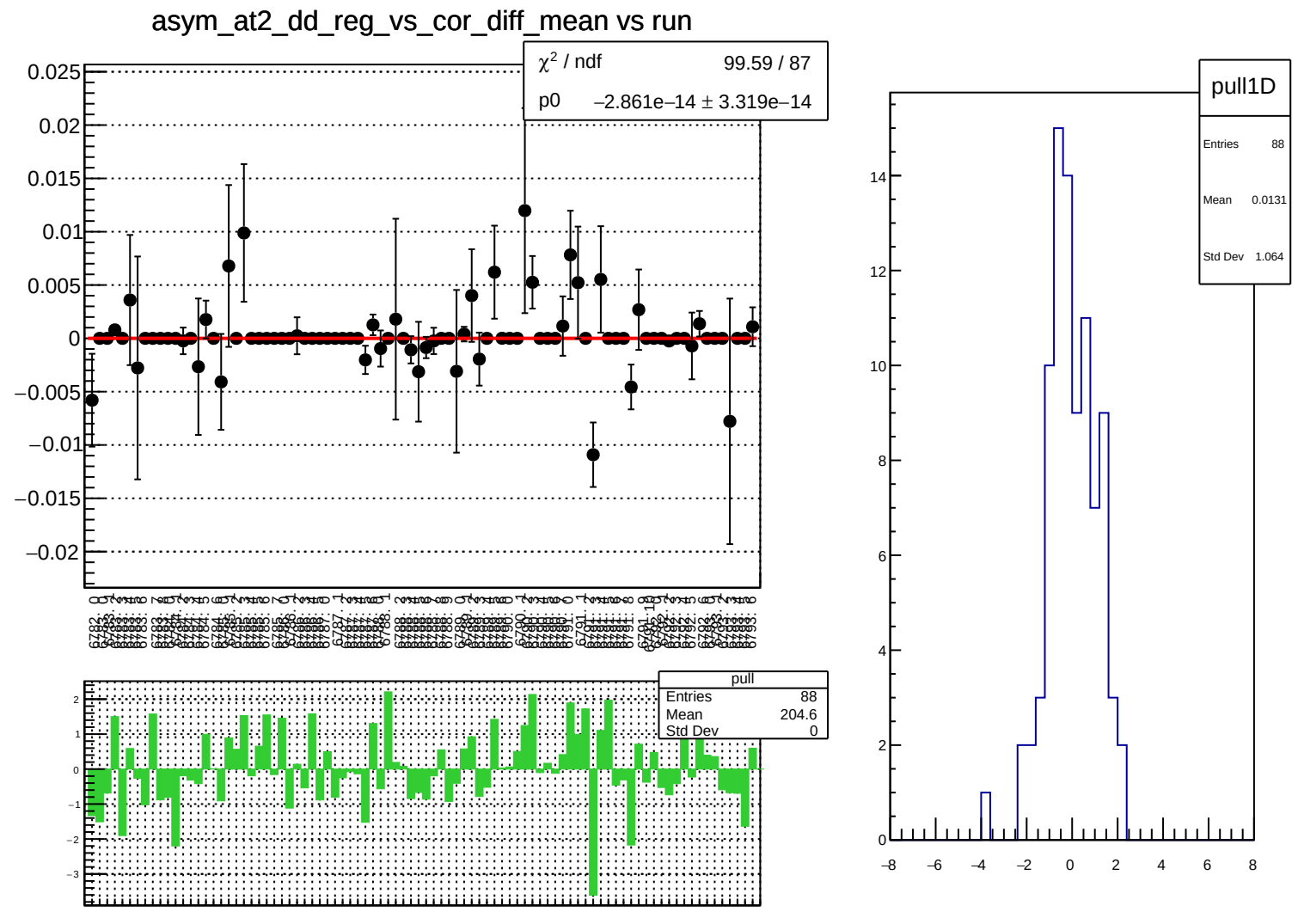

pull1D
Entries 88
Mean 0.01314
Std Dev 1.097

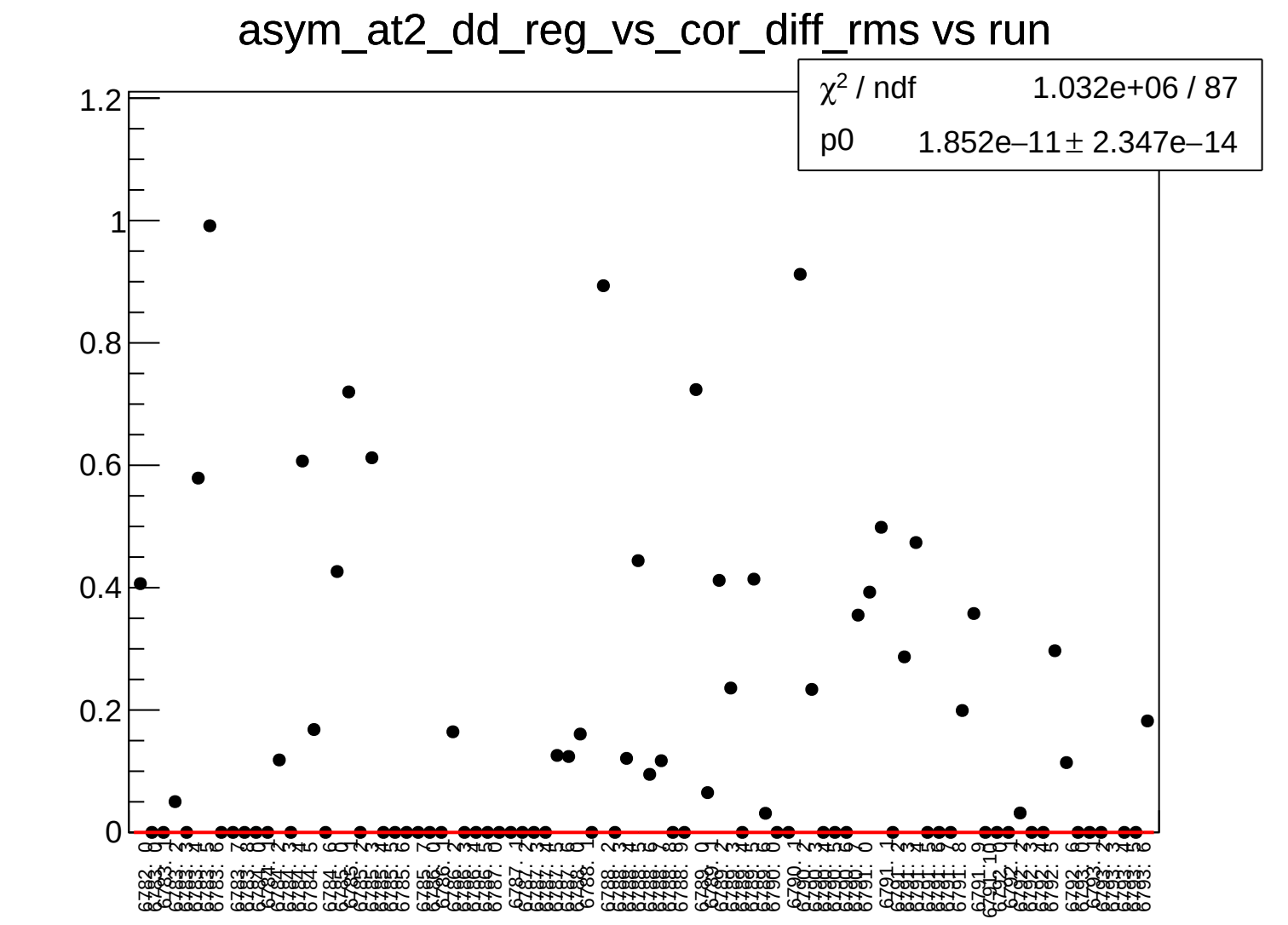

asym_at2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1770 / 87
p0 904.5 ± 0.7035
980
960
940
920
900
880
860
840

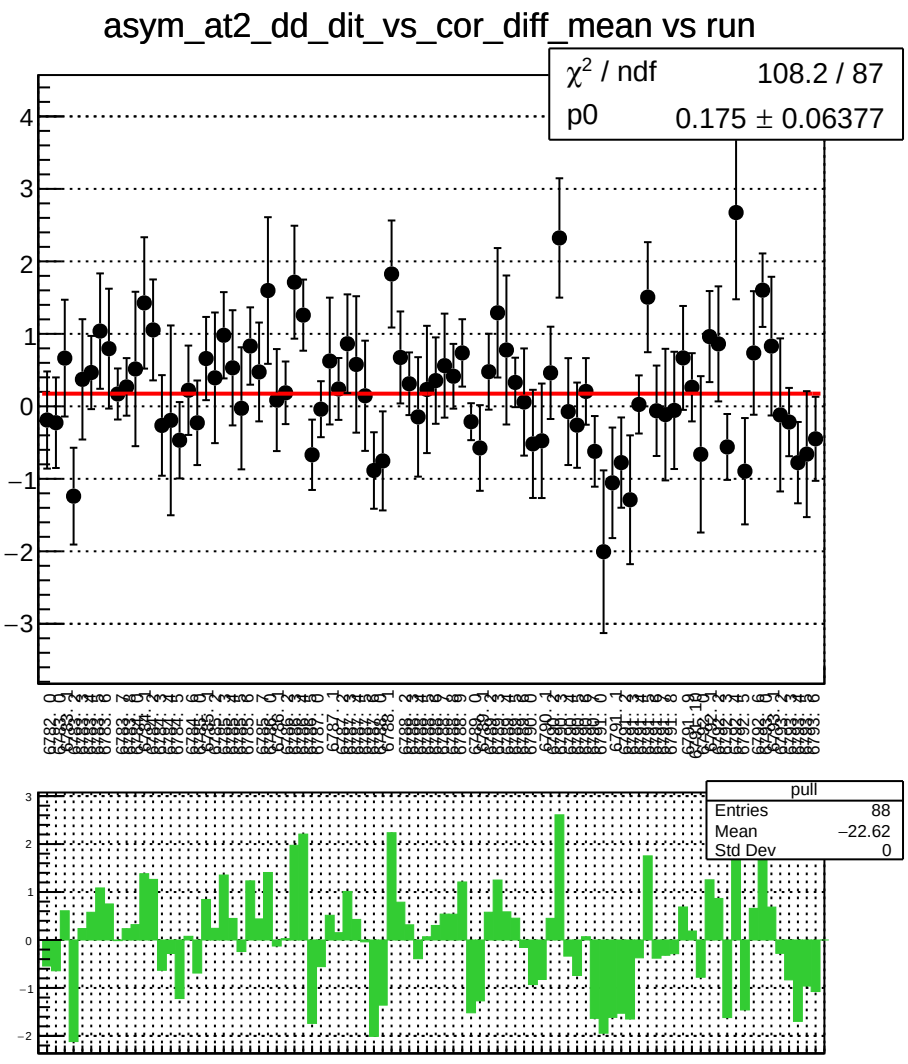

asym_at2_dd_mean vs run
χ² / ndf 89.49 / 87
p0 −2213 ± 2082
pull
Entries 88
Mean 49.95
Std Dev 42.58

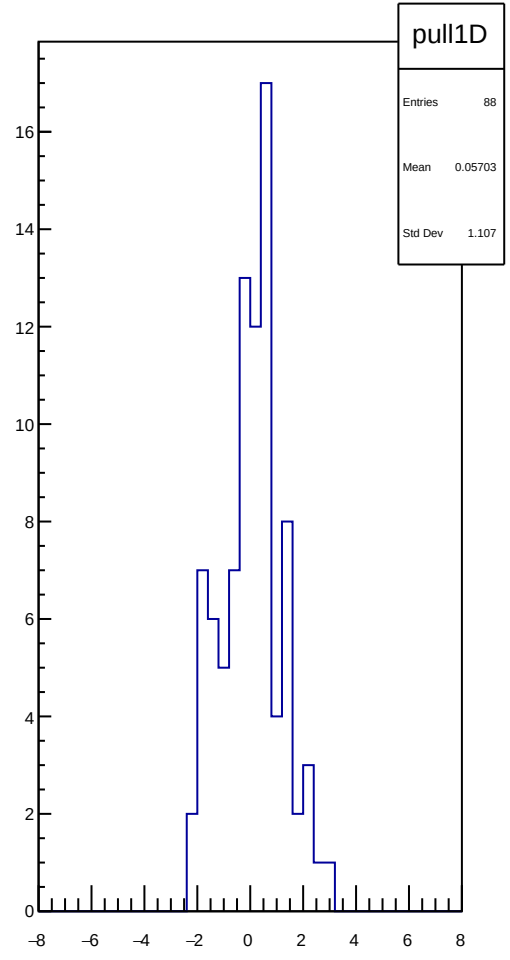

pull1D
Entries 88
Mean −0.02557
Std Dev 1.008

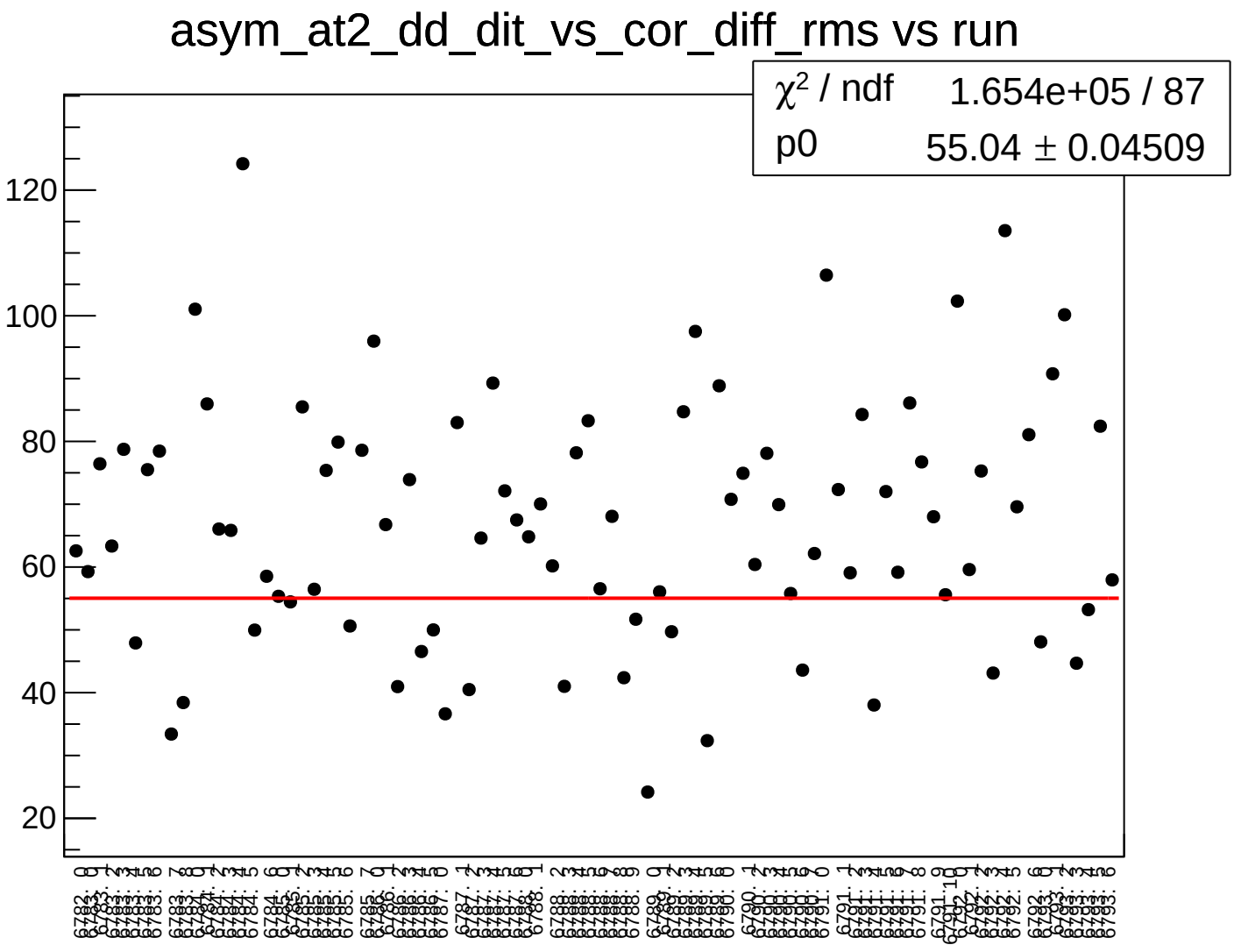

asym_at2_dd_rms vs run
χ² / ndf 218.6 / 87
p0 1893 ± 1.472
1980
1960
1940
1920
1900
1880
1860
1840
1820

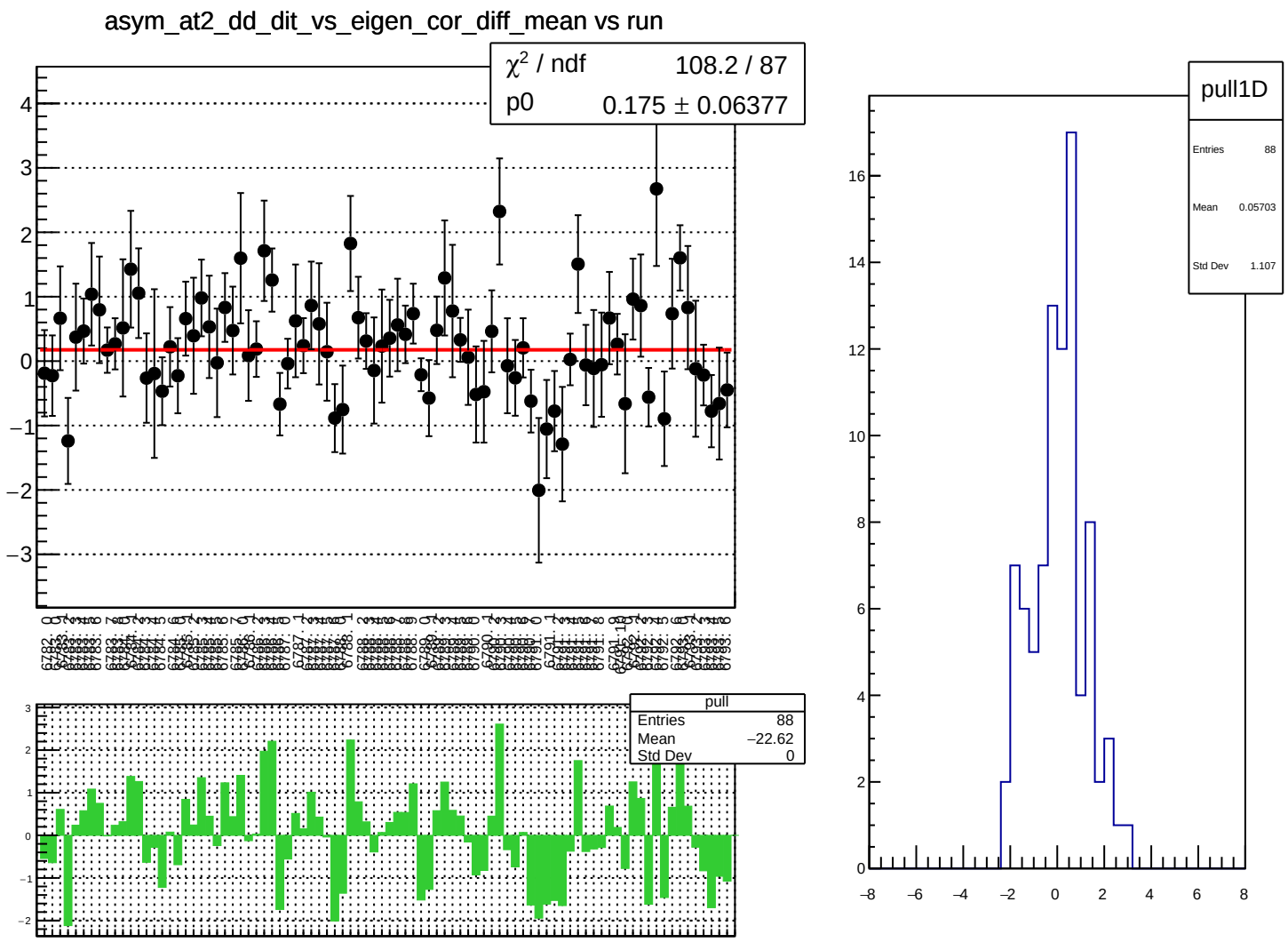

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.59 / 87
p0 −2.861e−14 ± 3.319e−14
pull
Entries 88
Mean 204.6
Std Dev 0
pull1D
Entries 88
Mean 0.0131
Std Dev 1.064

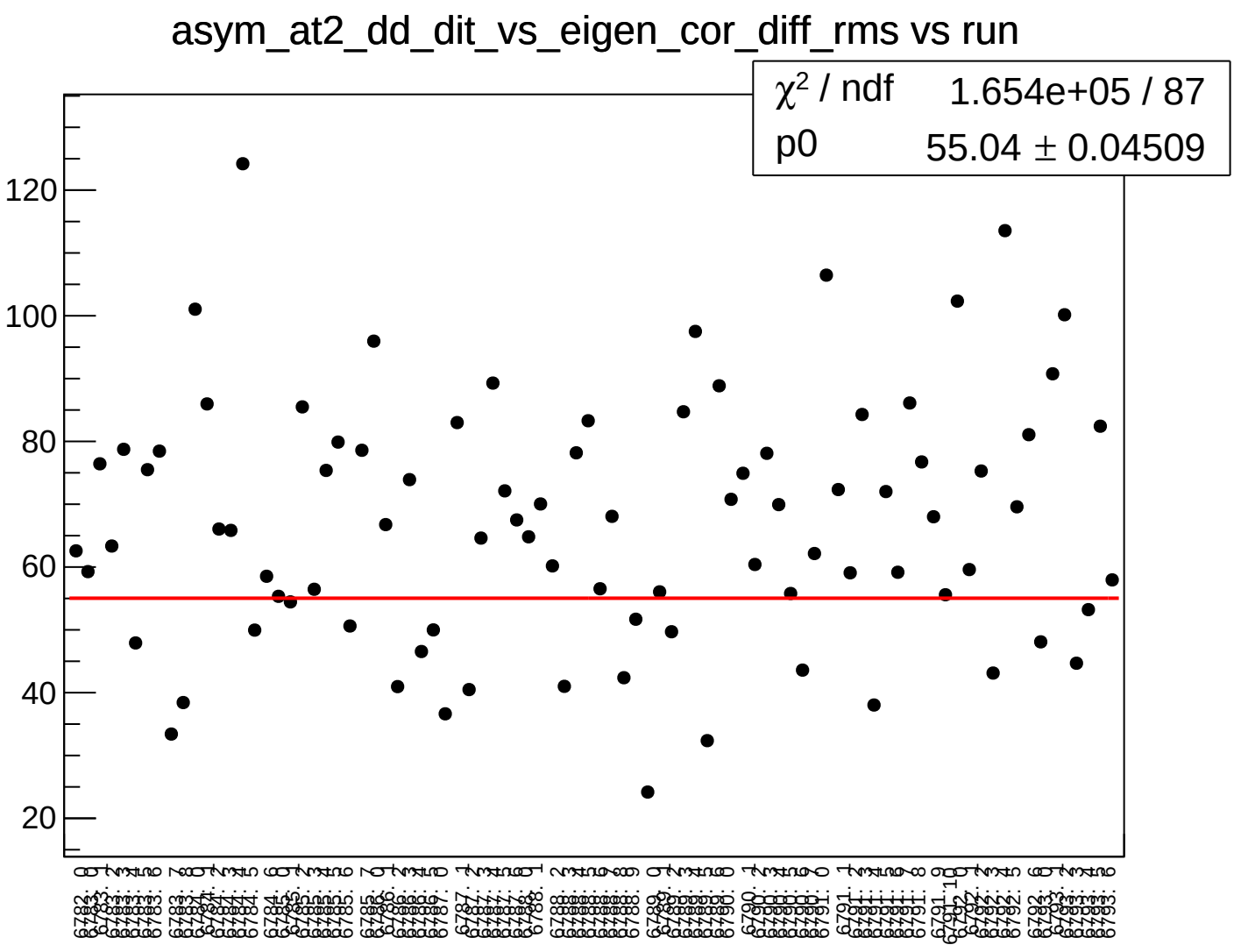

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.032e+06 / 87
p0 1.852e−11 ± 2.347e−14
1.2
1
0.8
0.6
0.4
0.2
0

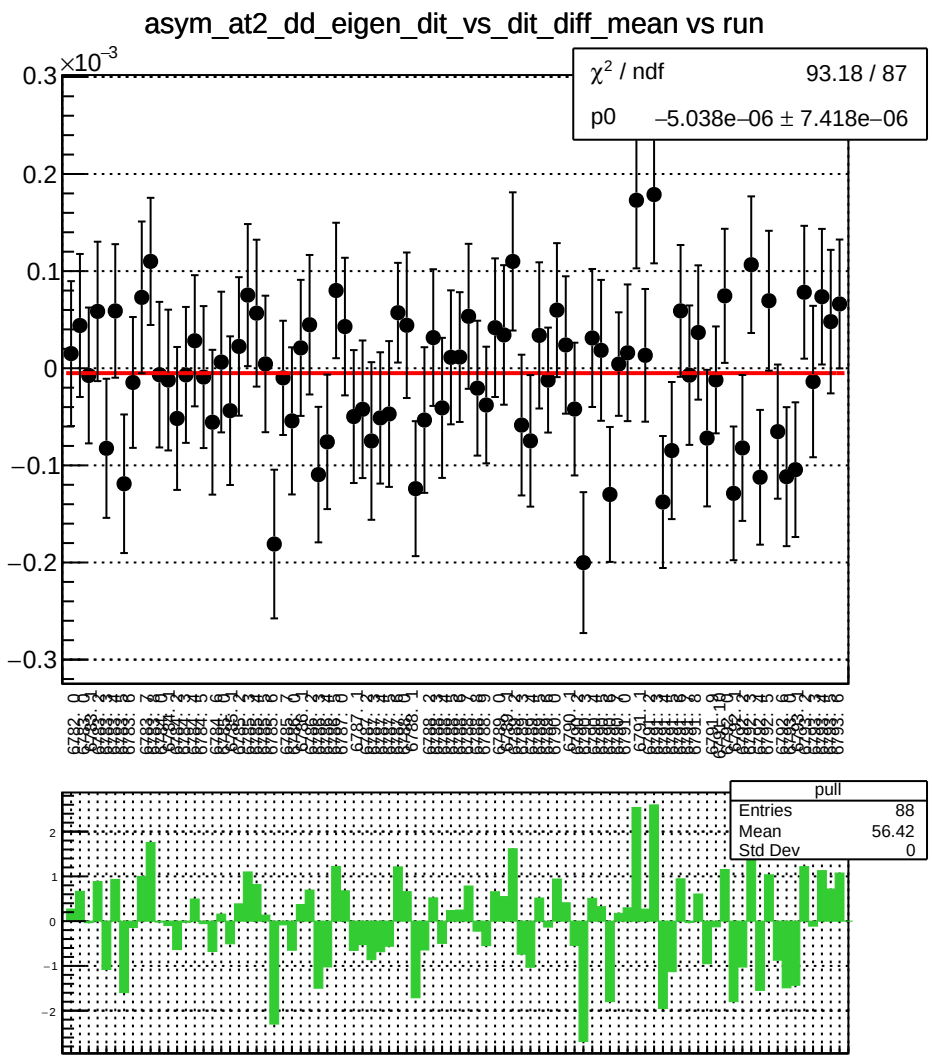

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 87
p0 0.175 ± 0.06377
pull
Entries 88
Mean −22.62
Std Dev 0

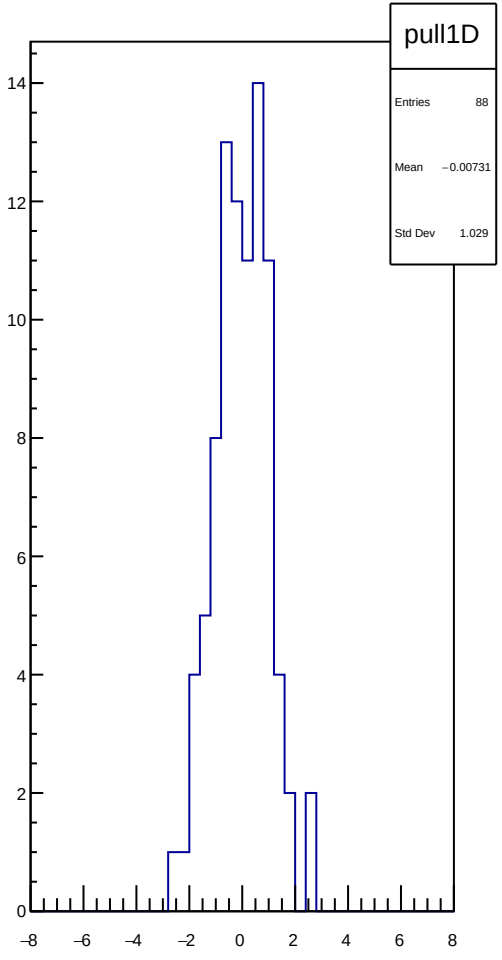

pull1D
Entries 88
Mean 0.05703
Std Dev 1.107

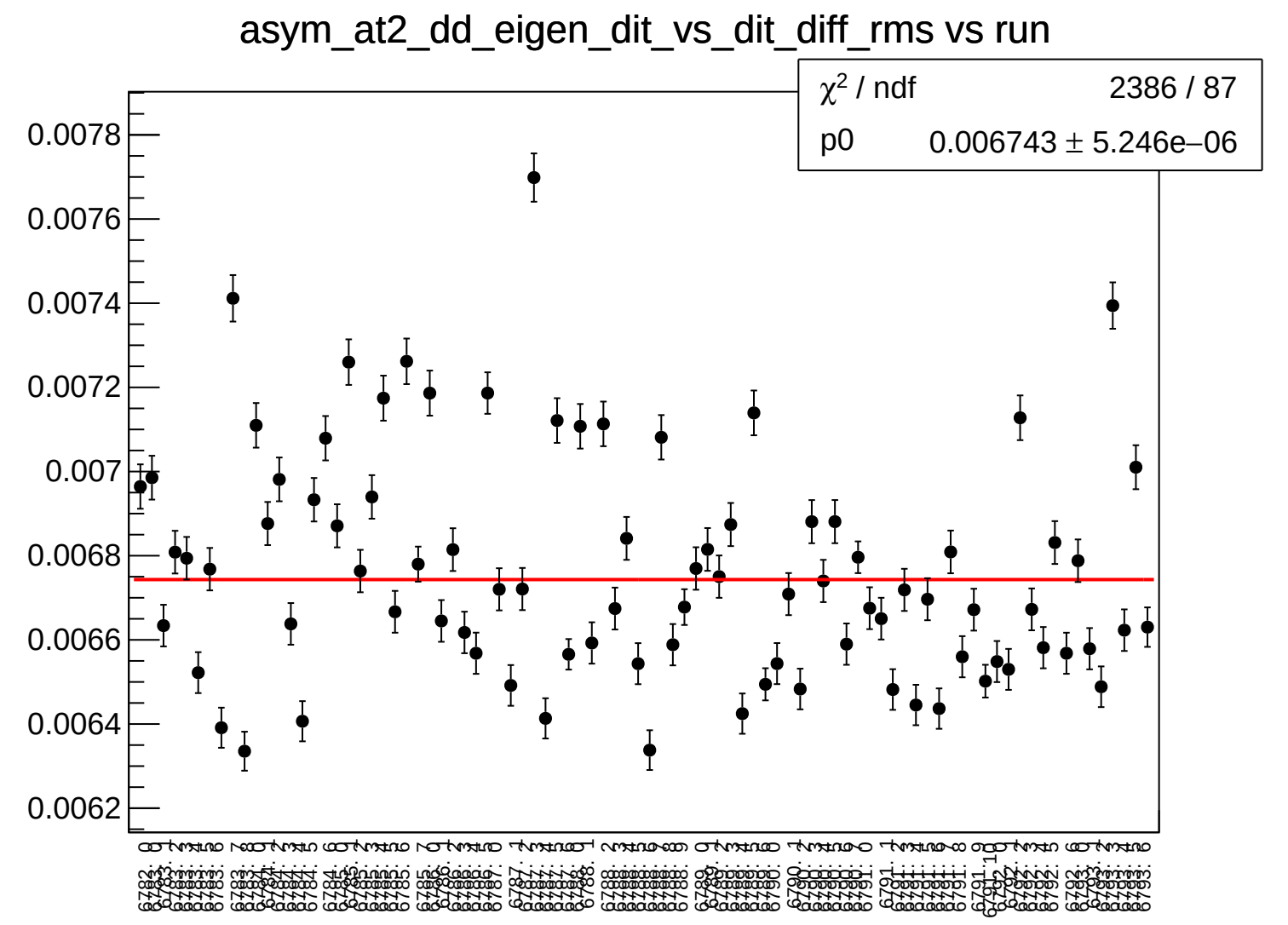

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 87
p0 55.04 ± 0.04509
120
100
80
60
40
20


asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 87
p0 0.175 ± 0.06377
pull
Entries 88
Mean −22.62
Std Dev 0
pull1D
Entries 88
Mean 0.05703
Std Dev 1.107

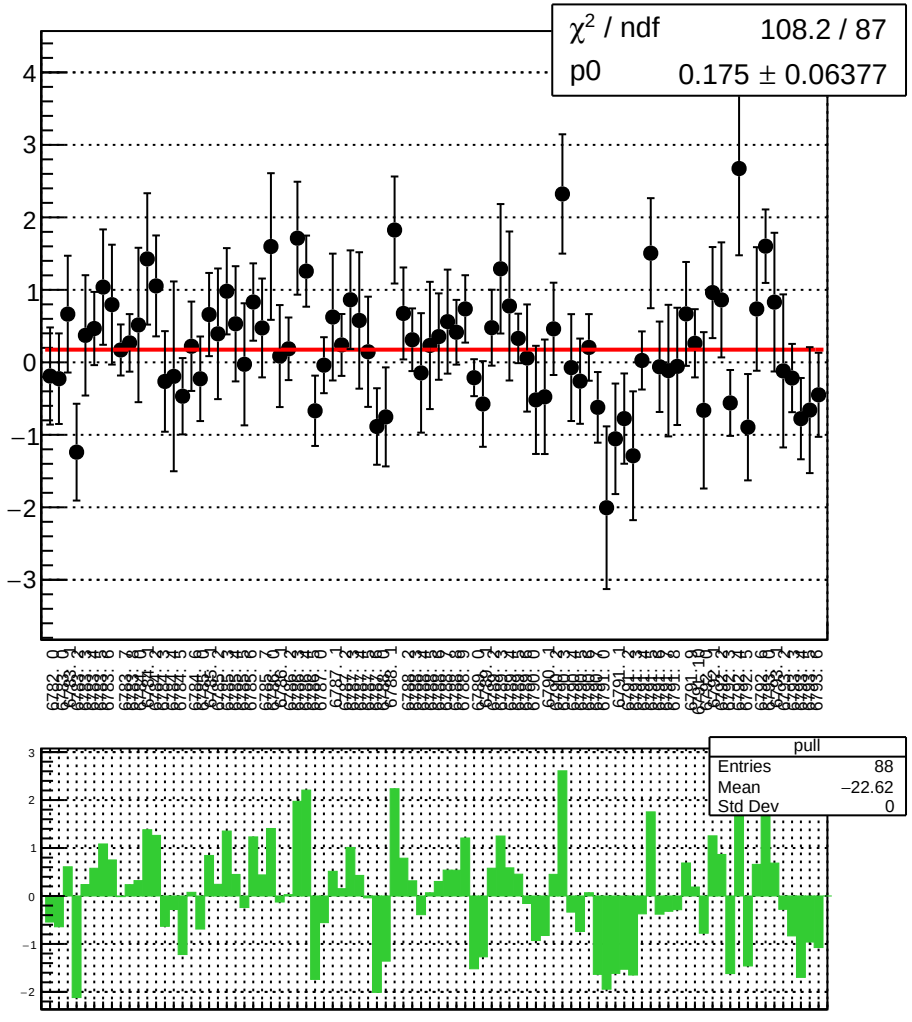

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 87
p0 55.04 ± 0.04509
120
100
80
60
40
20

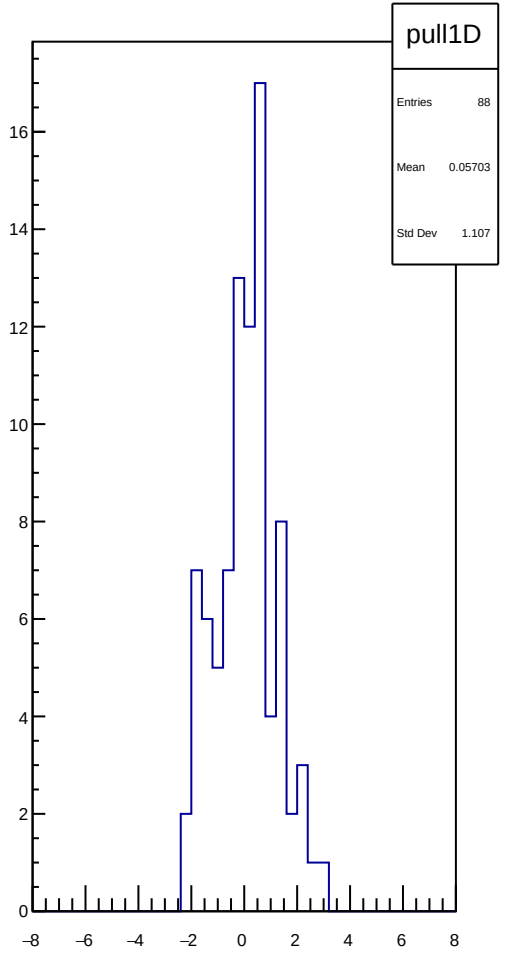

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.18 / 87
p0 −5.038e−06 ± 7.418e−06
pull
Entries 88
Mean 56.42
Std Dev 0

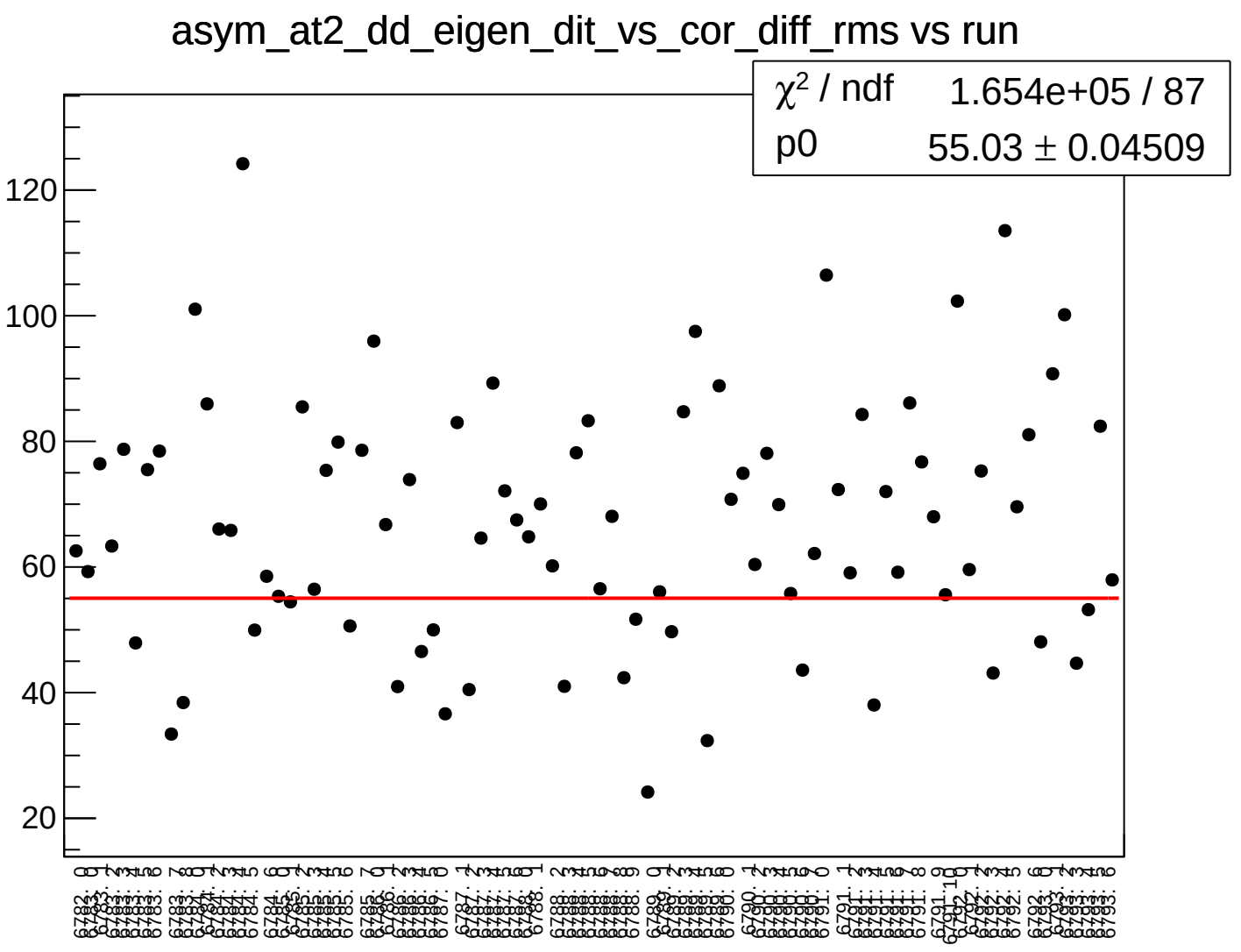

pull1D
Entries 88
Mean −0.00731
Std Dev 1.029

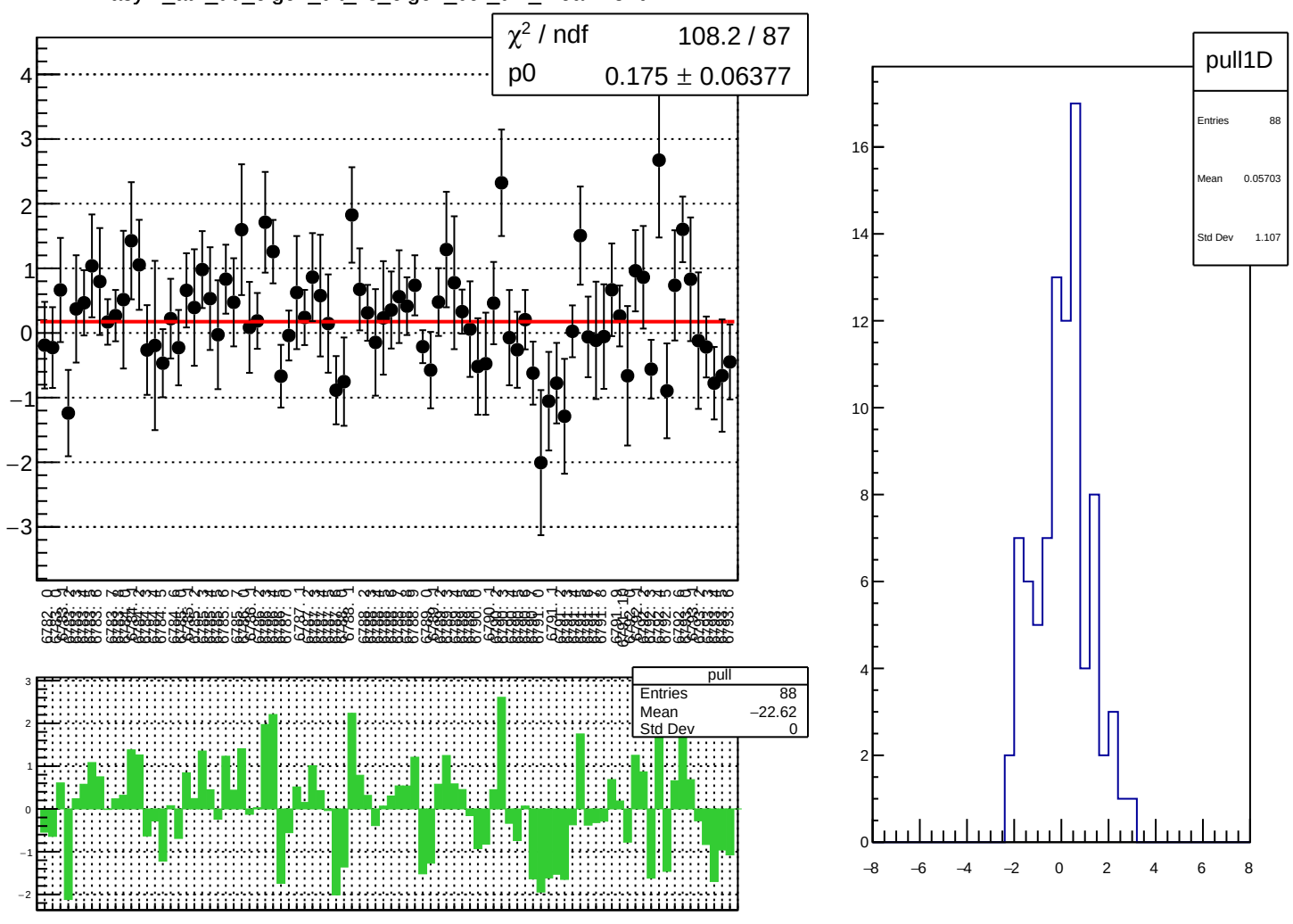

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2386 / 87
p0 0.006743 ± 5.246e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

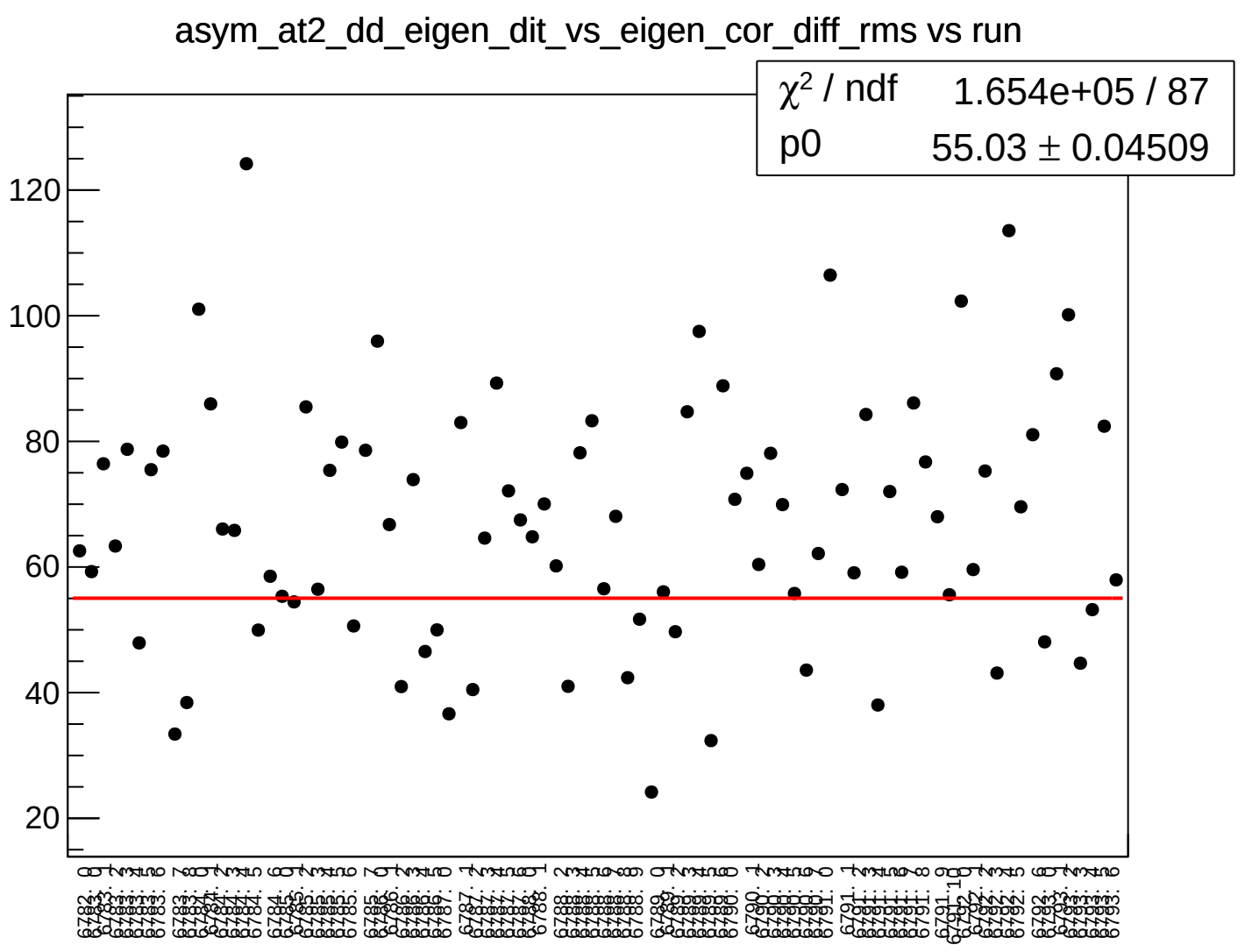
asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run

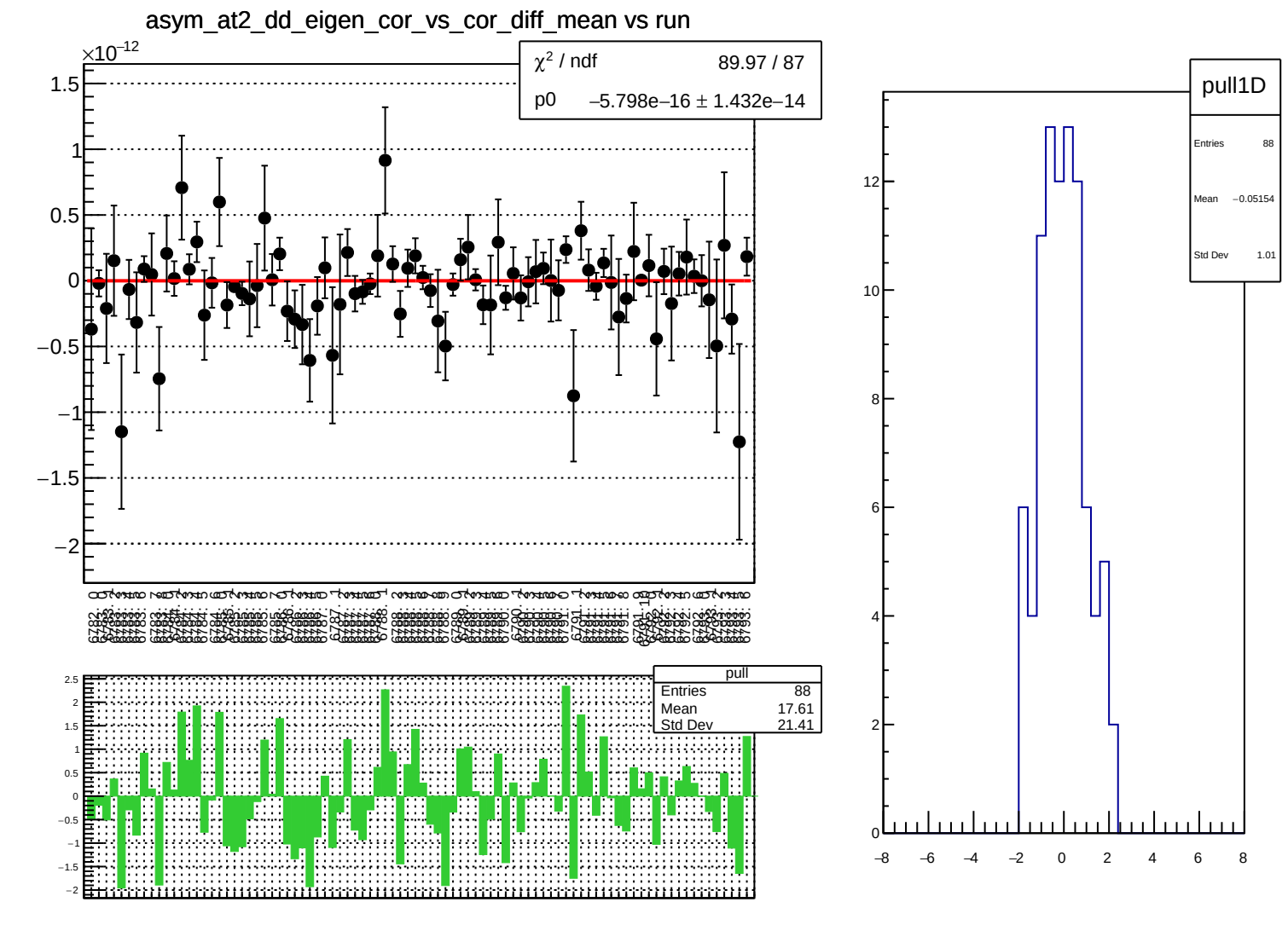


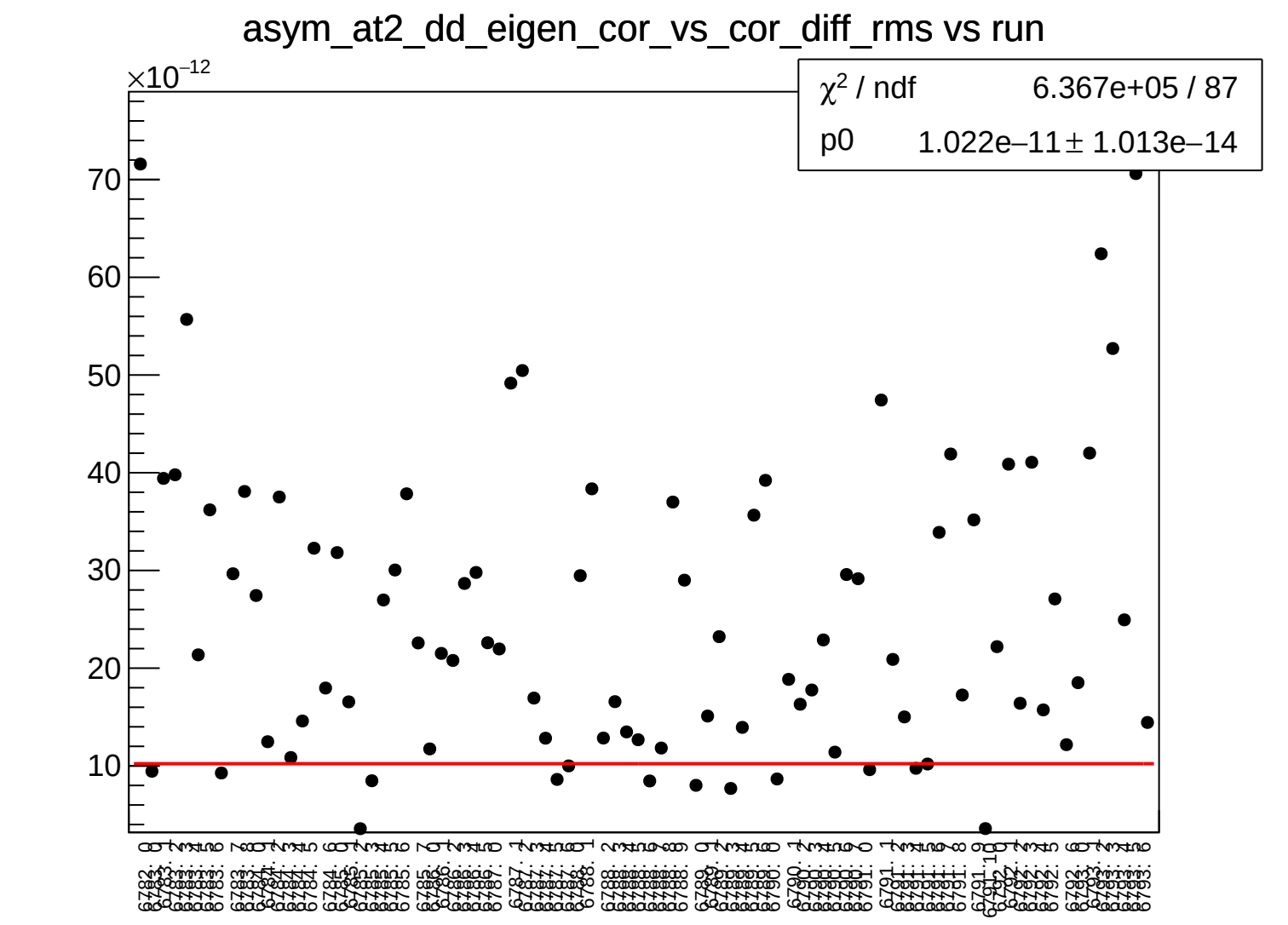


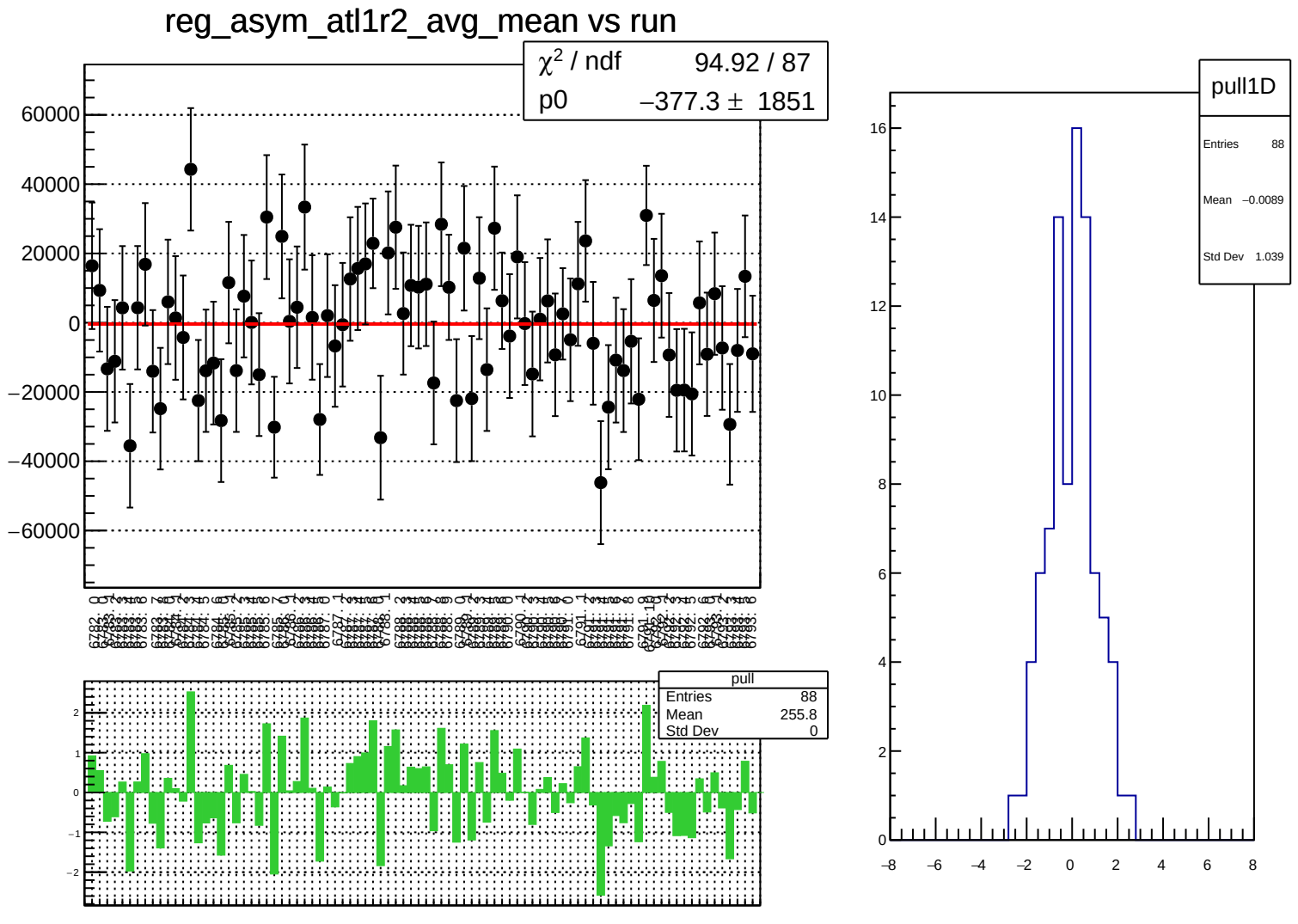

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 87
p0 55.03 ± 0.04509
120
100
80
60
40
20

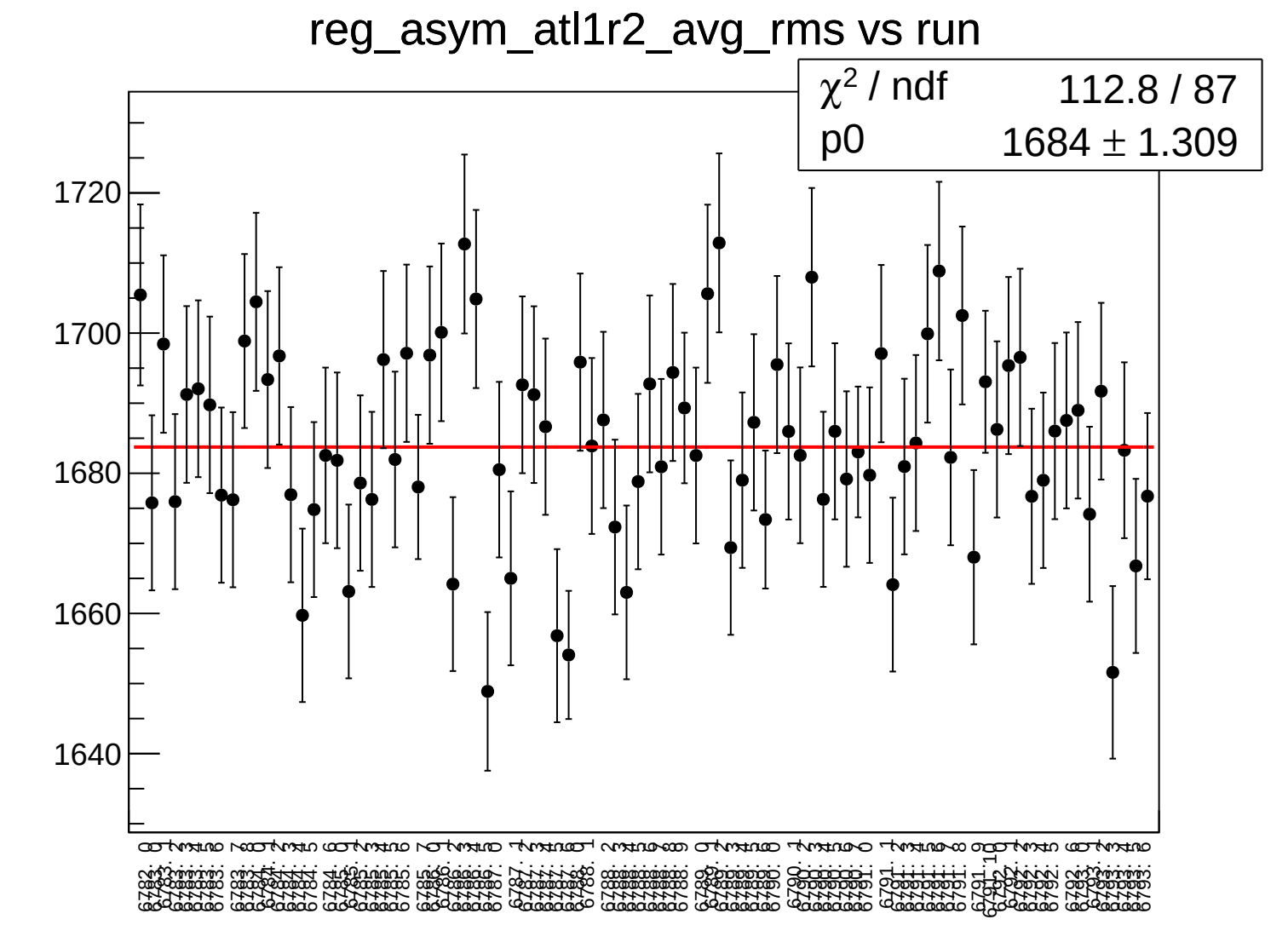

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 87
p0 0.175 ± 0.06377
pull
Entries 88
Mean −22.62
Std Dev 0
pull1D
Entries 88
Mean 0.05703
Std Dev 1.107

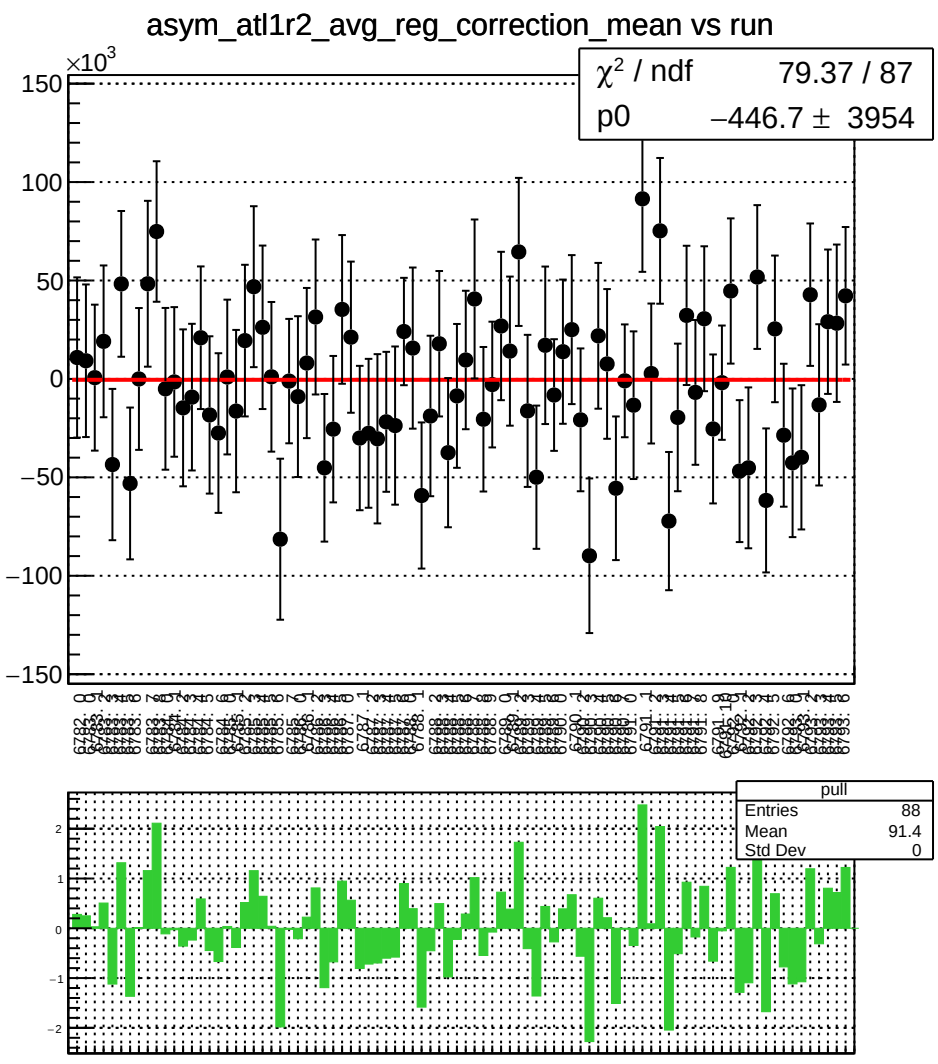

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 87
p0 55.03 ± 0.04509
120
100
80
60
40
20

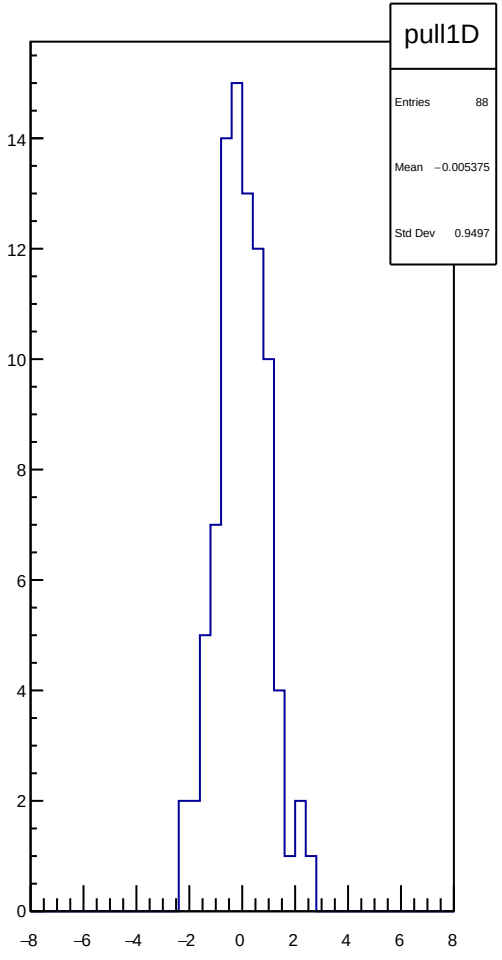

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 89.97 / 87
p0 −5.798e−16 ± 1.432e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull
Entries 88
Mean 17.61
Std Dev 21.41
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.05154
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

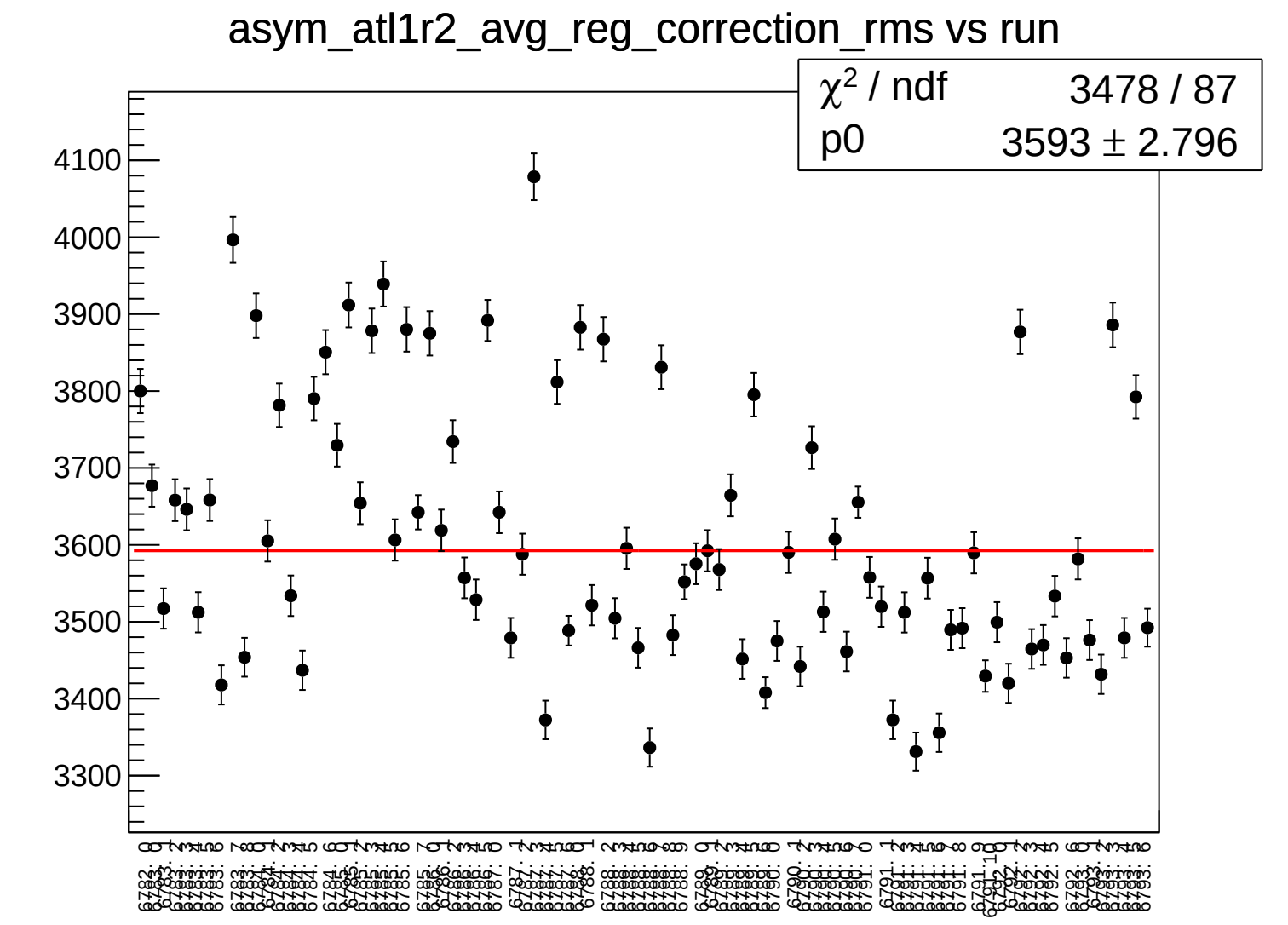

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.367e+05 / 87
p0 1.022e−11 ± 1.013e−14
70
60
50
40
30
20
10

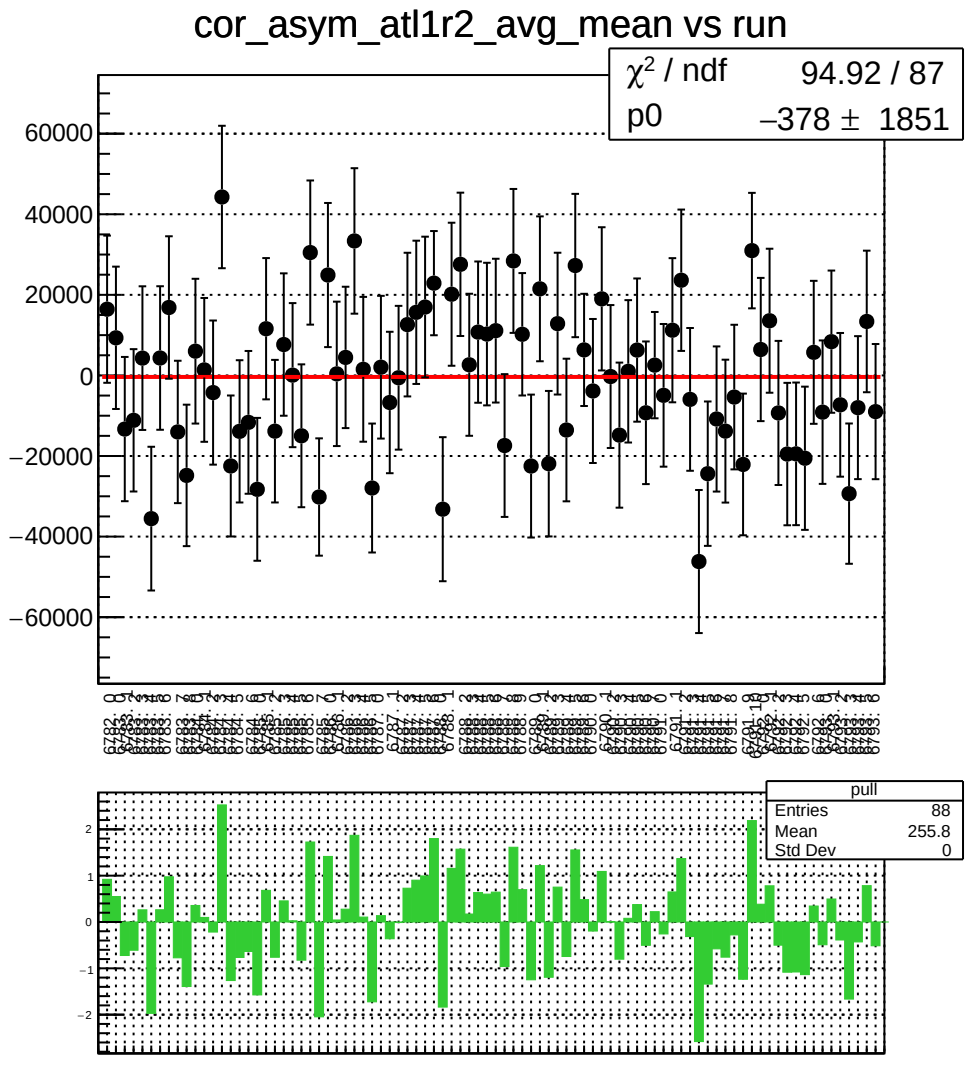

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 94.92 / 87
p0 −377.3 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 255.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0089
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

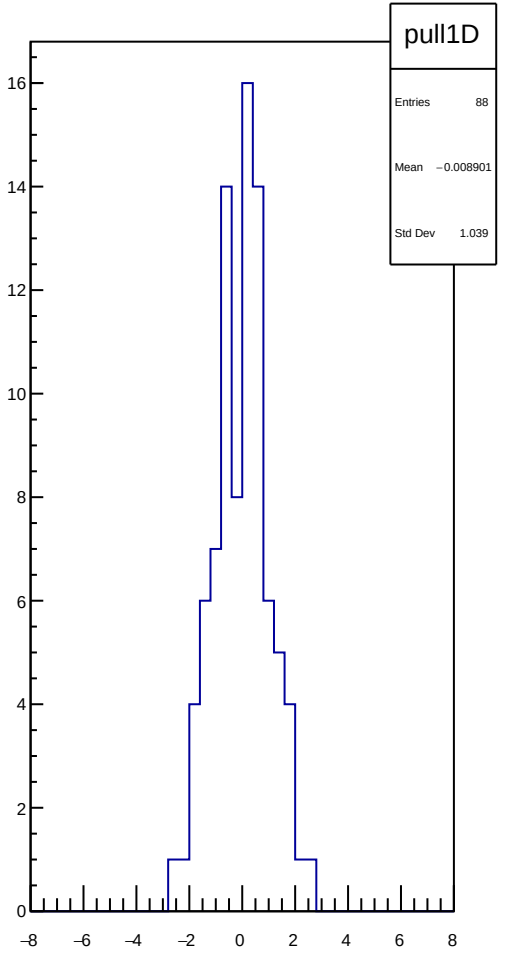

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 112.8 / 87
p0 1684 ± 1.309
1720
1700
1680
1660
1640

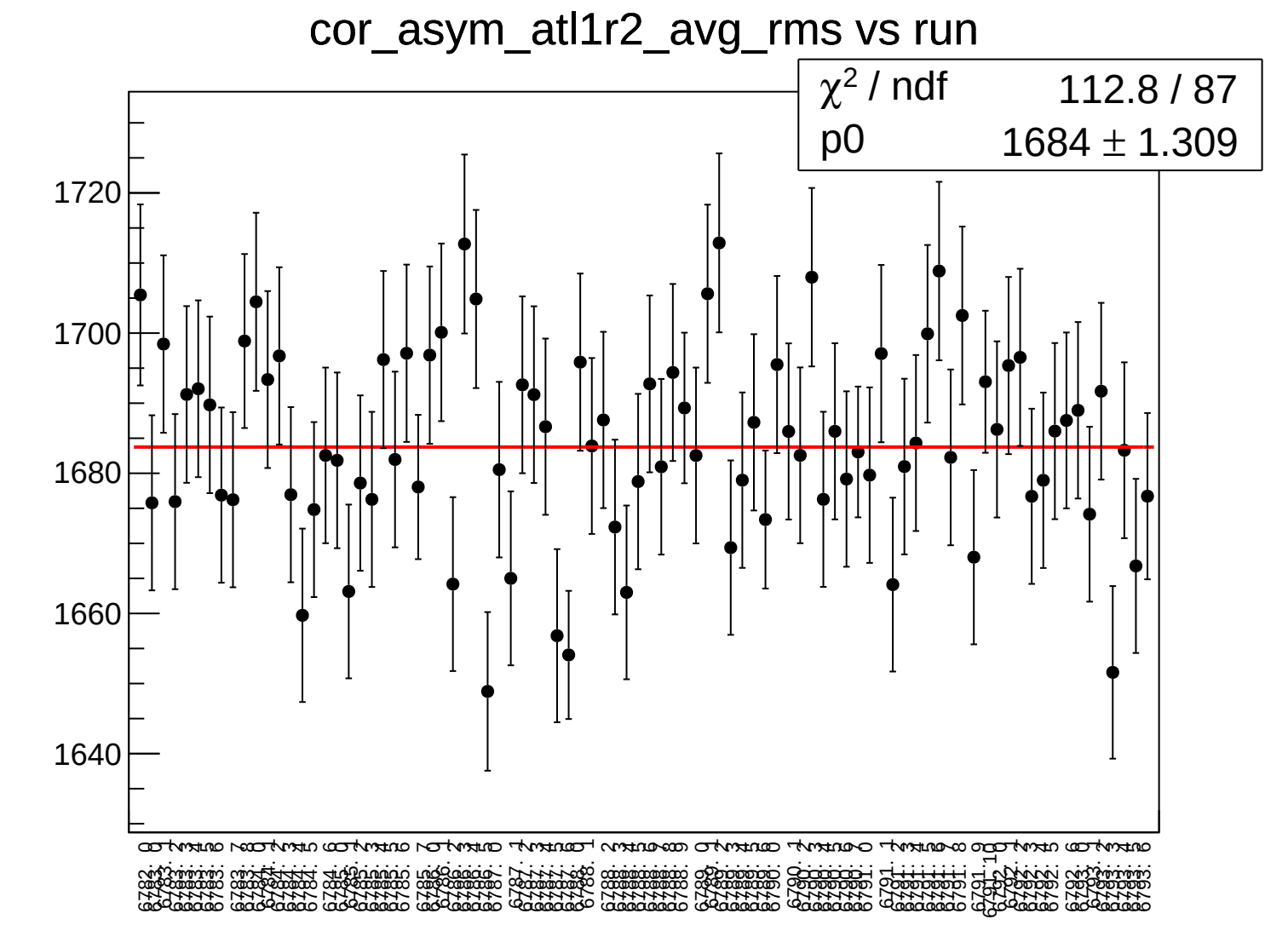

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.37 / 87
p0 −446.7 ± 3954
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 91.4
Std Dev 0
2
1
0
−1
−2

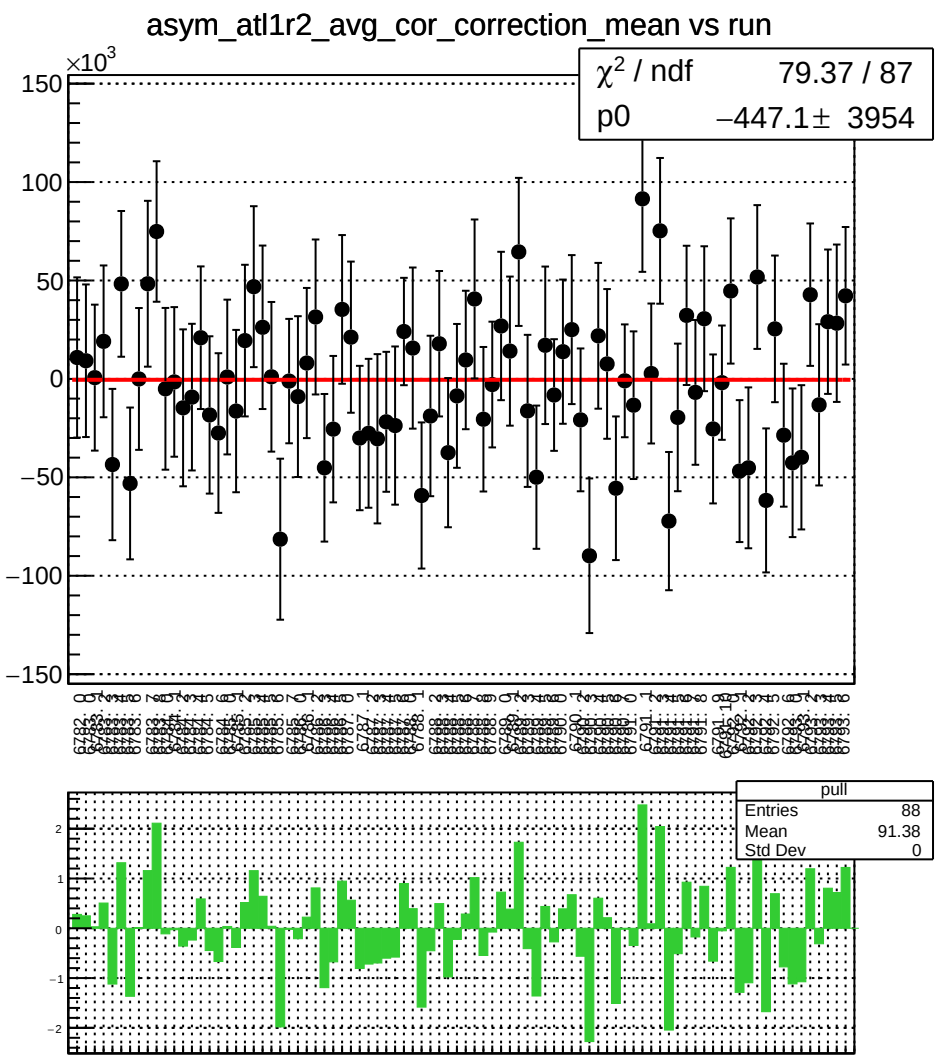

pull1D
Entries 88
Mean −0.005375
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

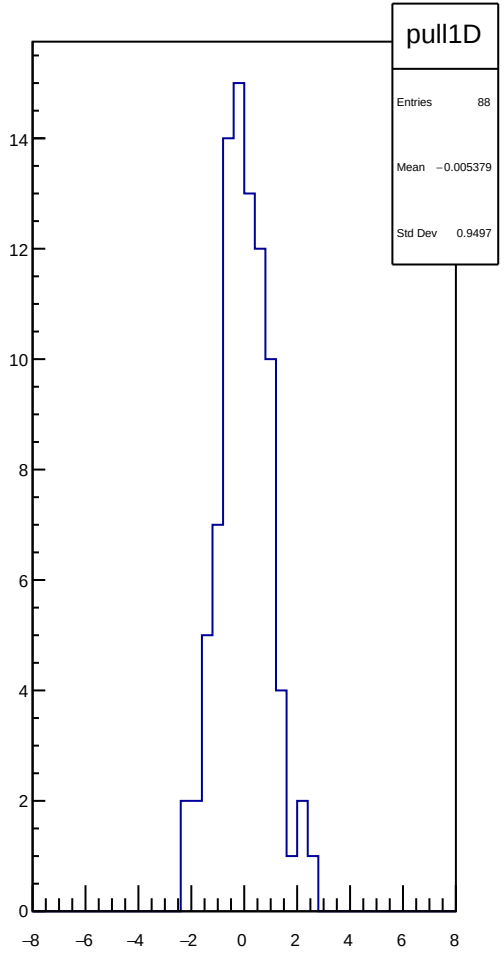

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3478 / 87
p0 3593 ± 2.796
4100
4000
3900
3800
3700
3600
3500
3400
3300

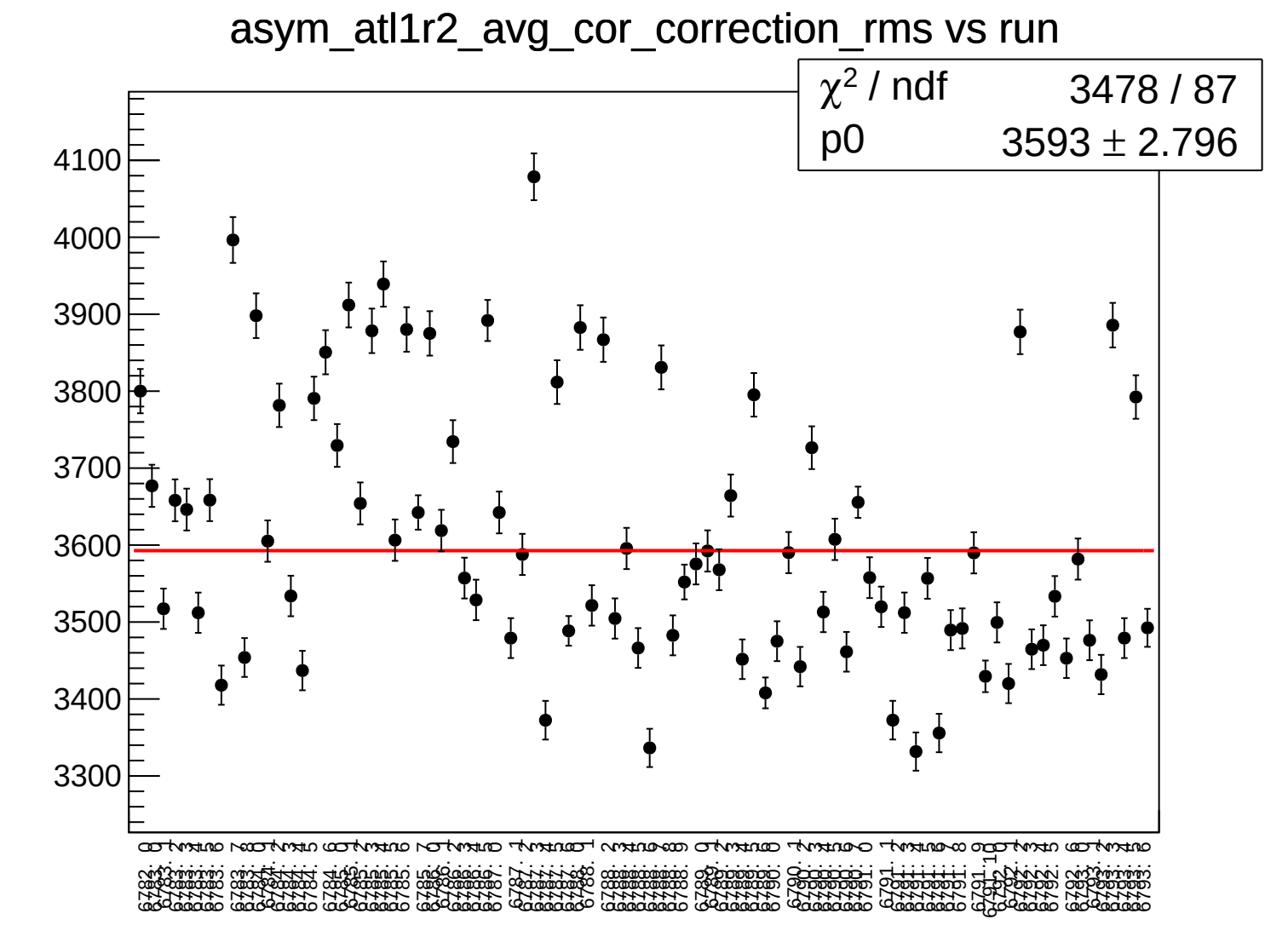

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 94.92 / 87
p0 −378 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 255.8
Std Dev 0
2
1
0
−1
−2

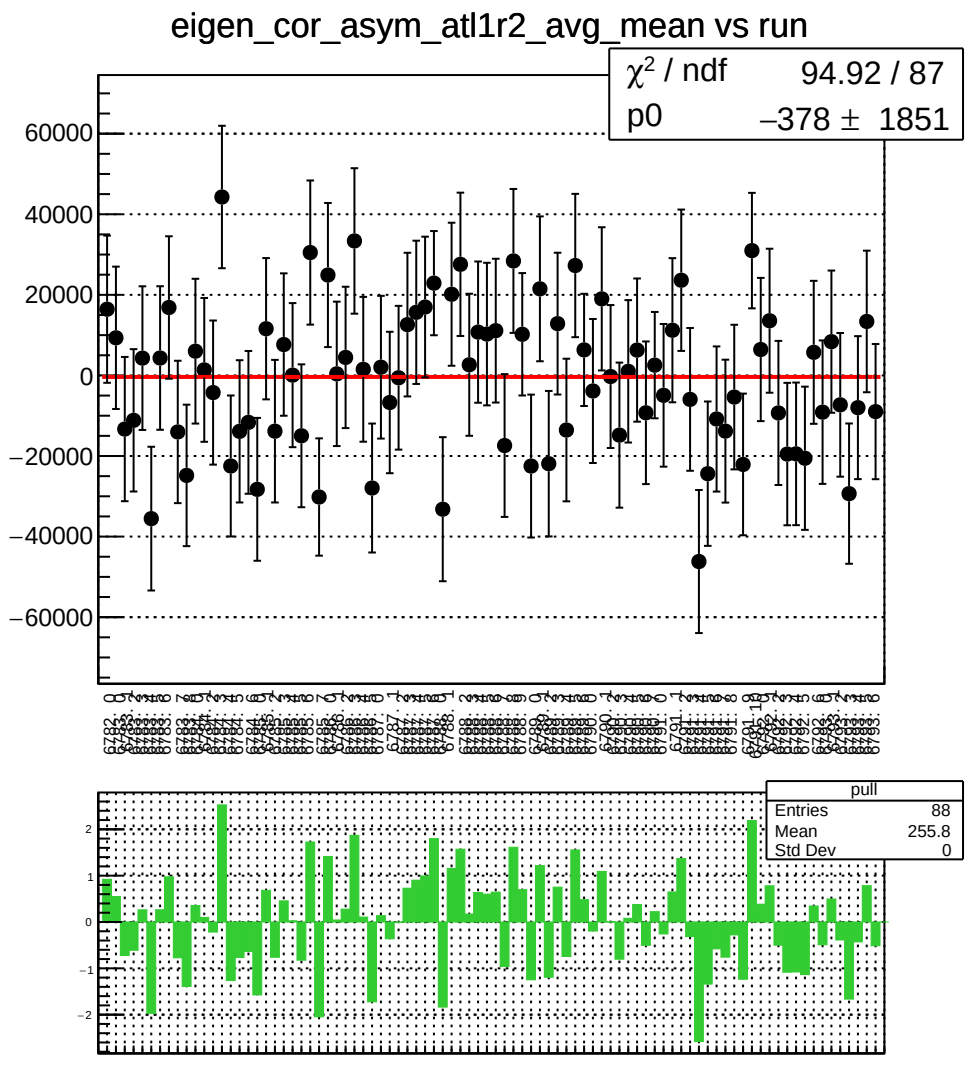

pull1D
Entries 88
Mean −0.008901
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

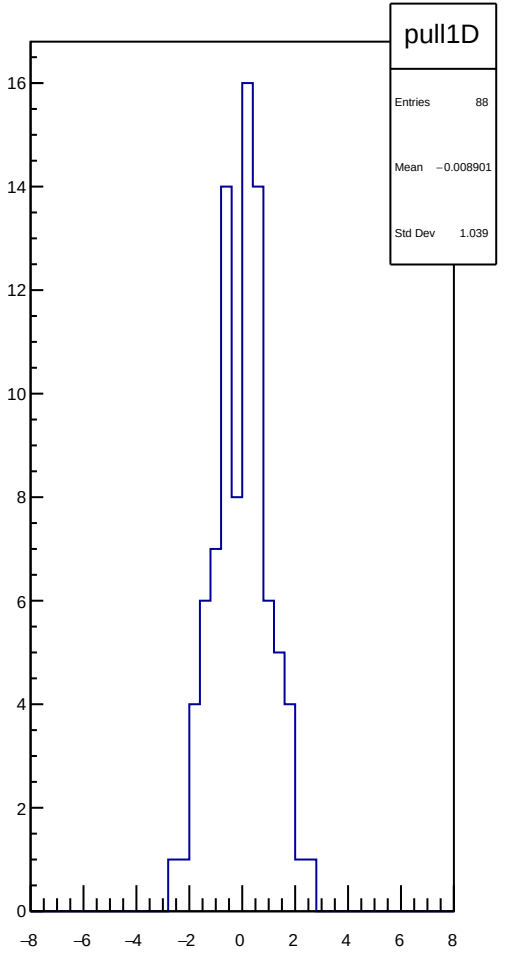

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 112.8 / 87
p0 1684 ± 1.309
1720
1700
1680
1660
1640

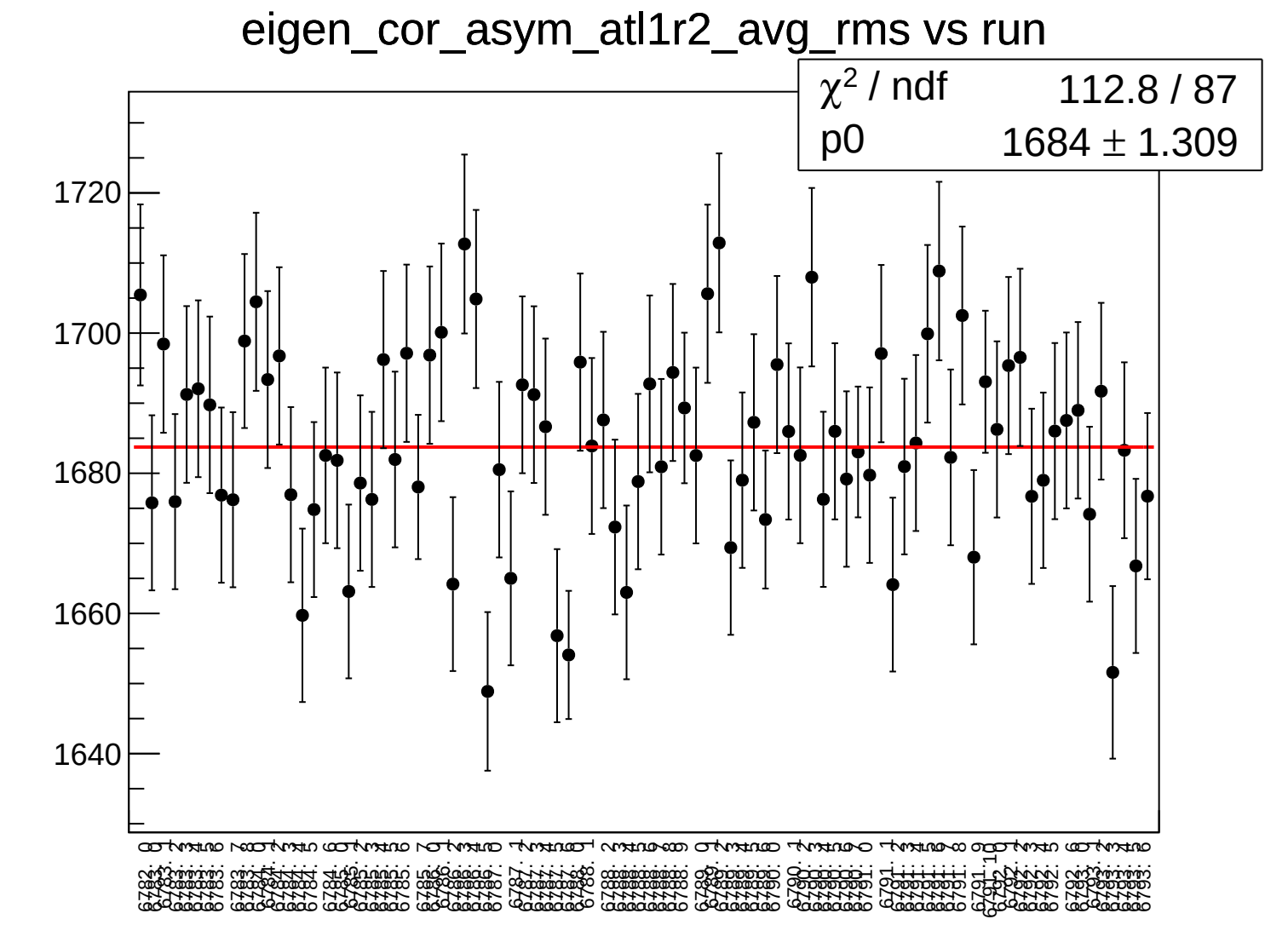

asym_atl1r2_avg_cor_correction_mean vs run
χ² / ndf 79.37 / 87
p0 −447.1± 3954
×10³
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 91.38
Std Dev 0
2
1
0
−1
−2

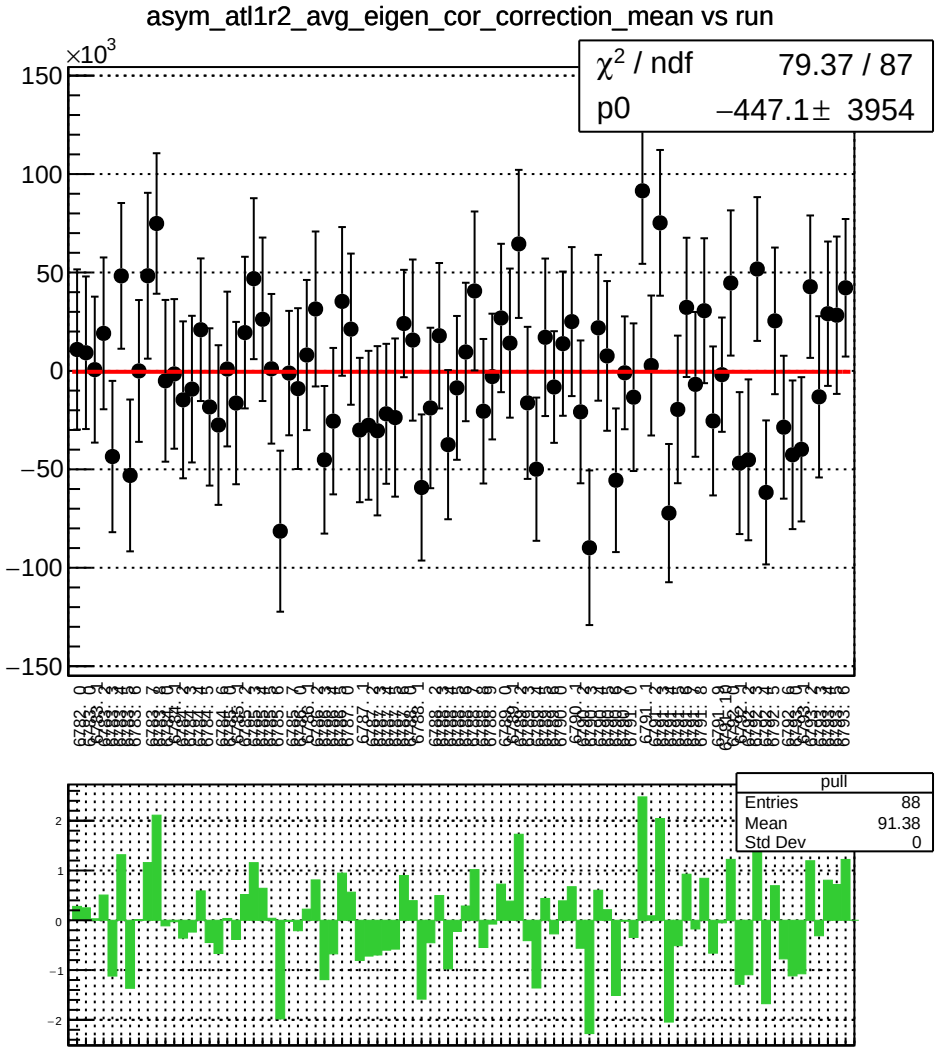

pull1D
Entries 88
Mean −0.005379
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

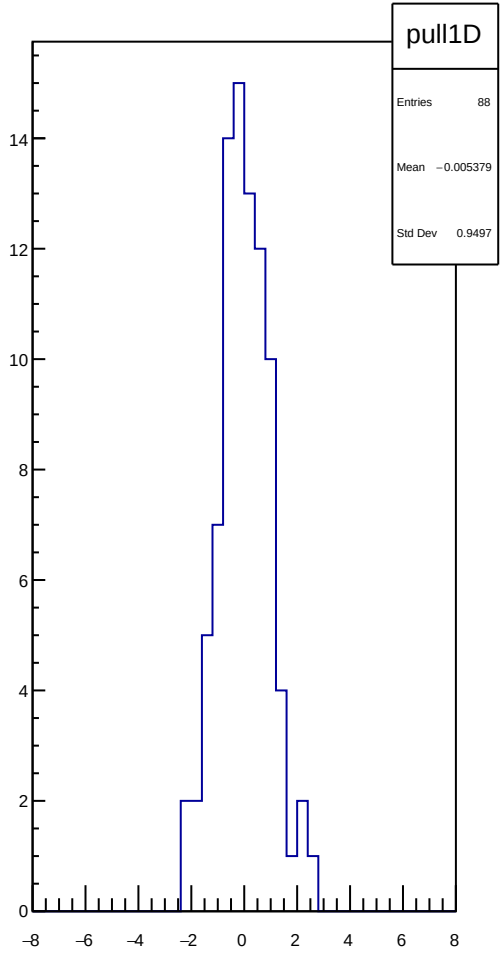

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3478 / 87
p0 3593 ± 2.796
4100
4000
3900
3800
3700
3600
3500
3400
3300

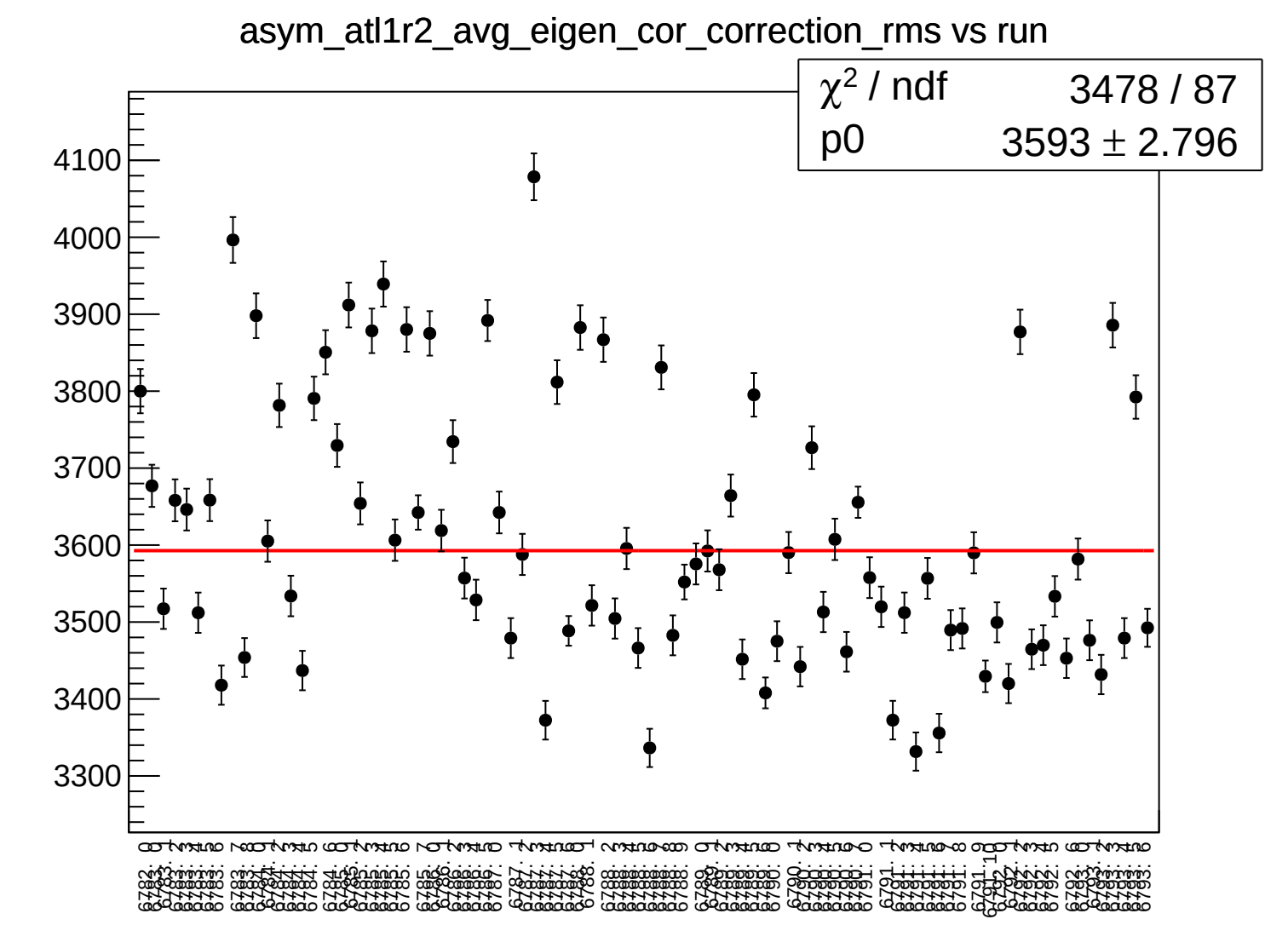

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 94.92 / 87
p0 −378 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 255.8
Std Dev 0
2
1
0
−1
−2

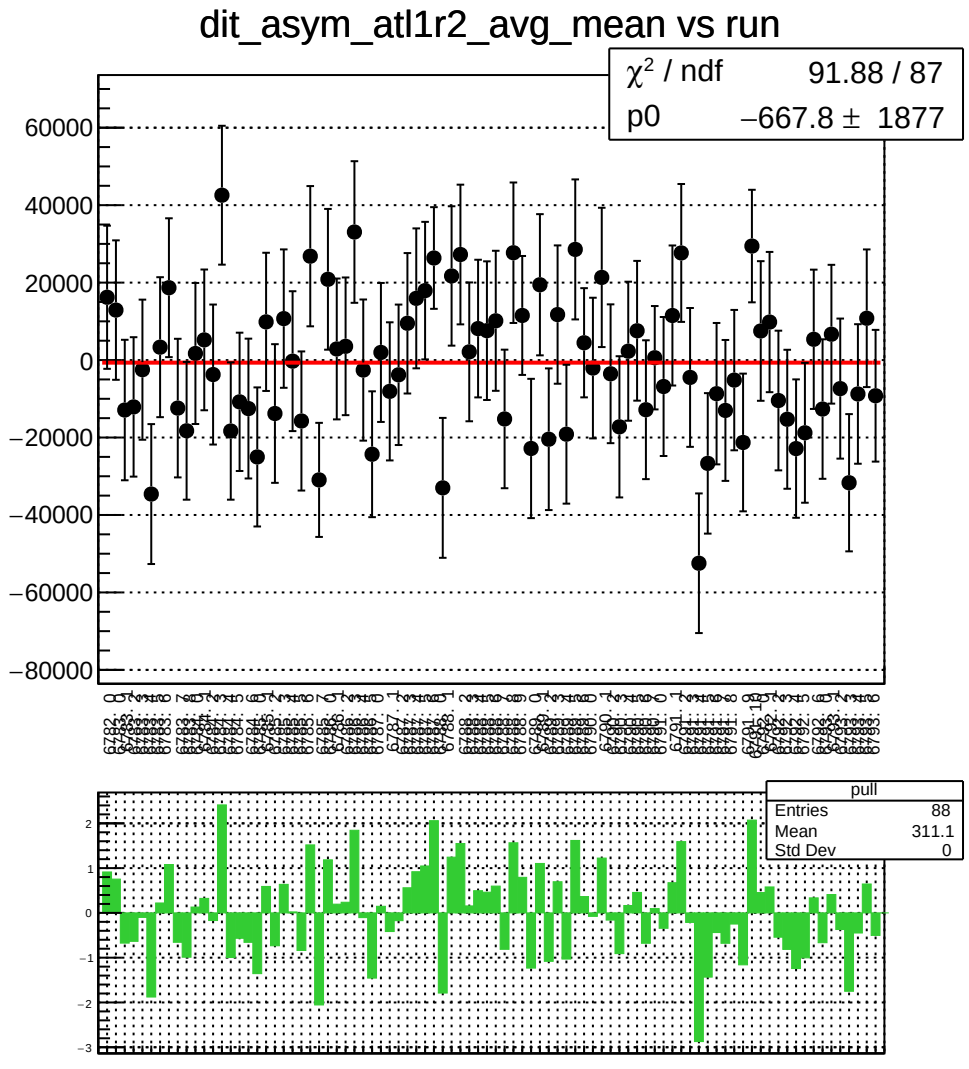

pull1D
Entries 88
Mean −0.008901
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

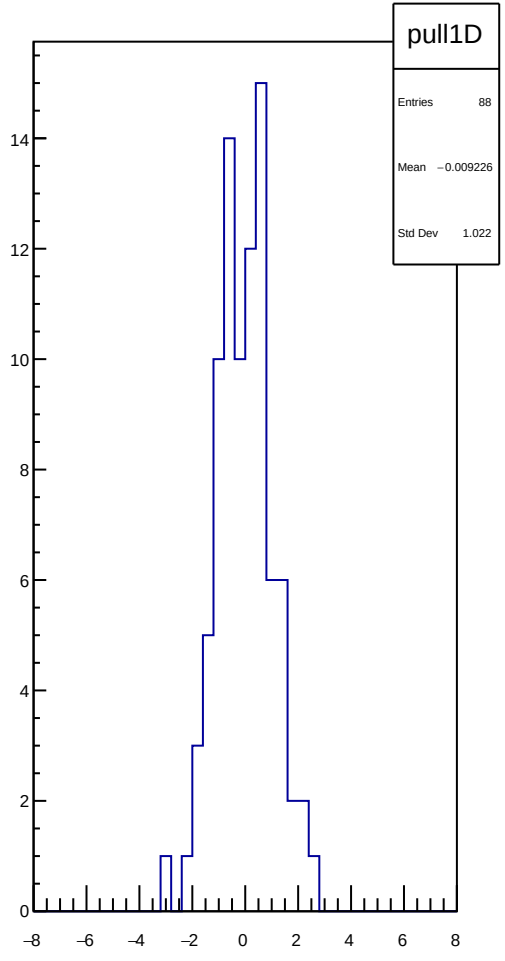

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 112.8 / 87
p0 1684 ± 1.309
1720
1700
1680
1660
1640

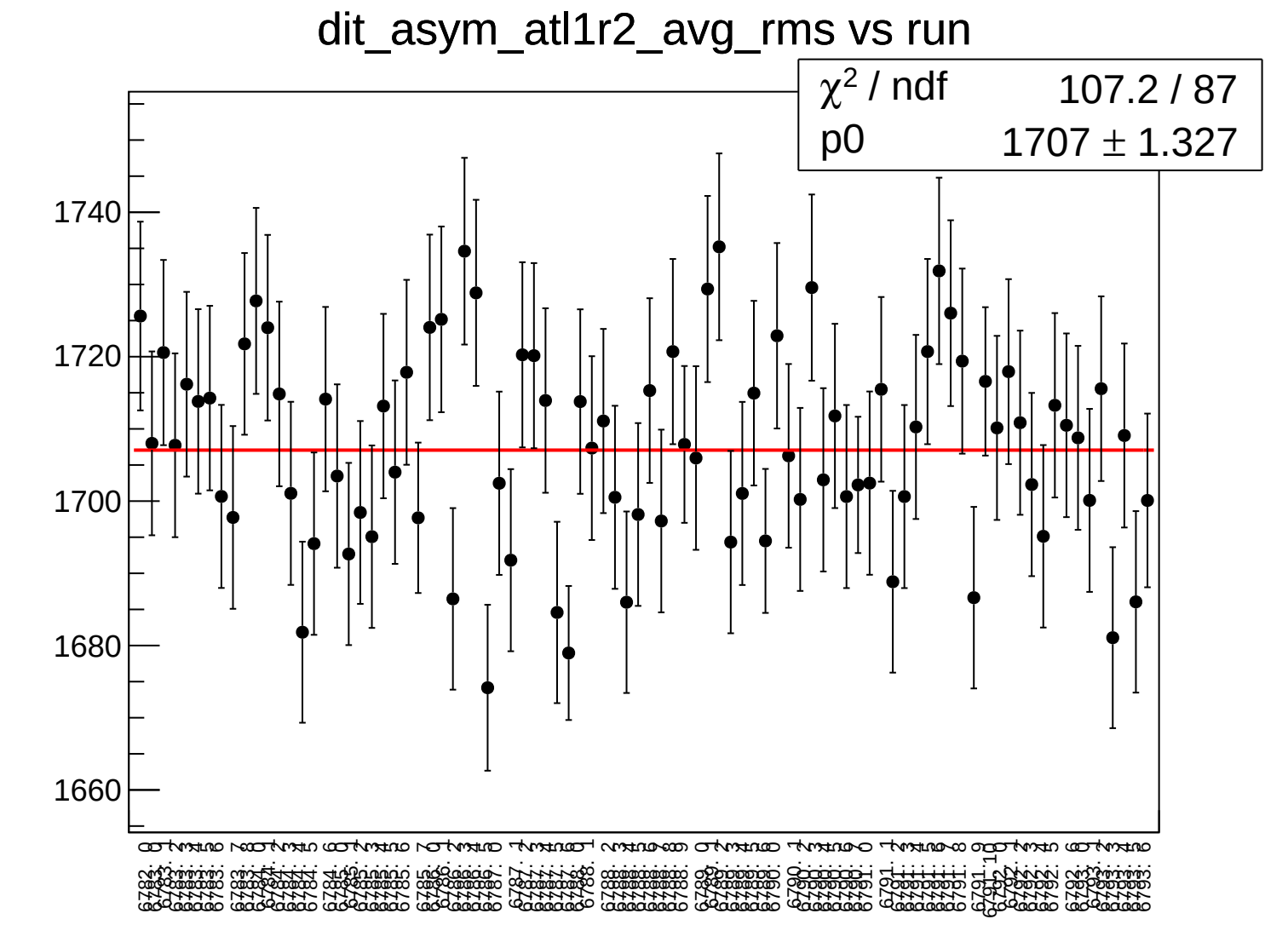

asym_atl1r2_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.37 / 87
p0 −447.1± 3954
pull
Entries 88
Mean 91.38
Std Dev 0

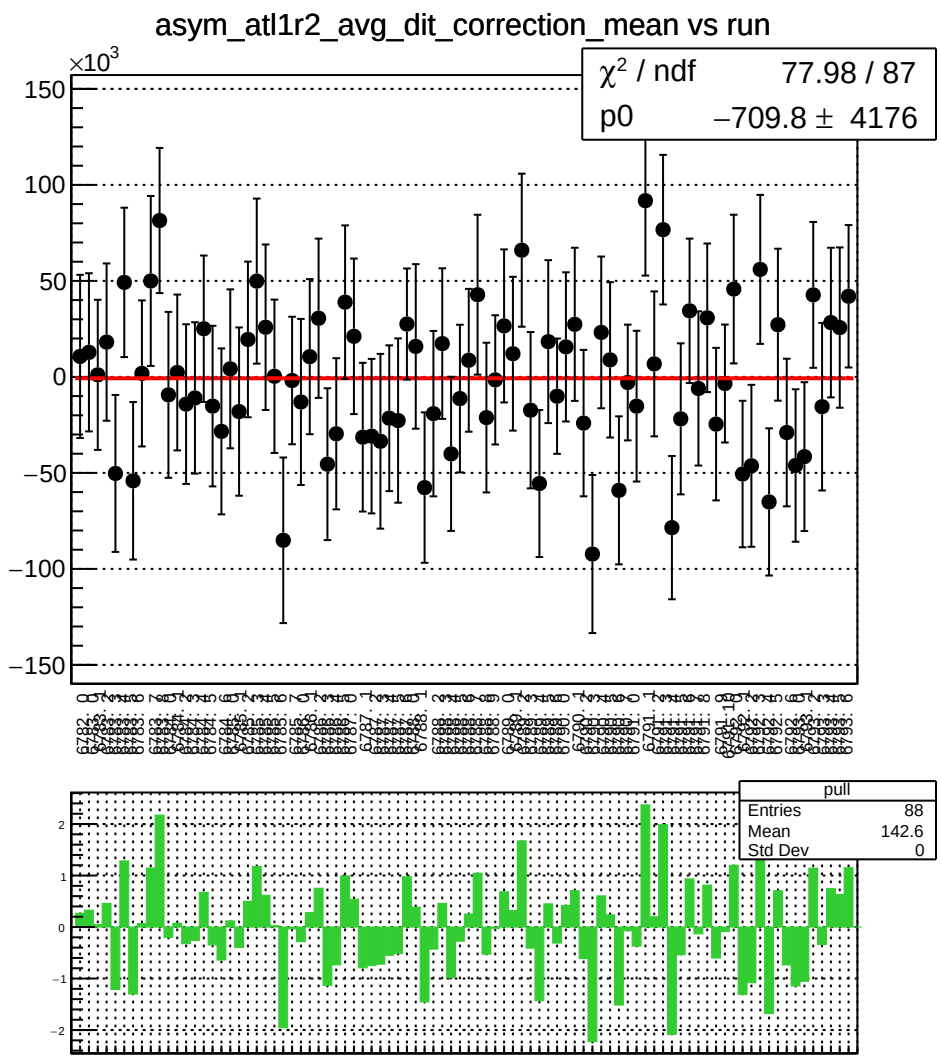

pull1D
Entries 88
Mean −0.005379
Std Dev 0.9497

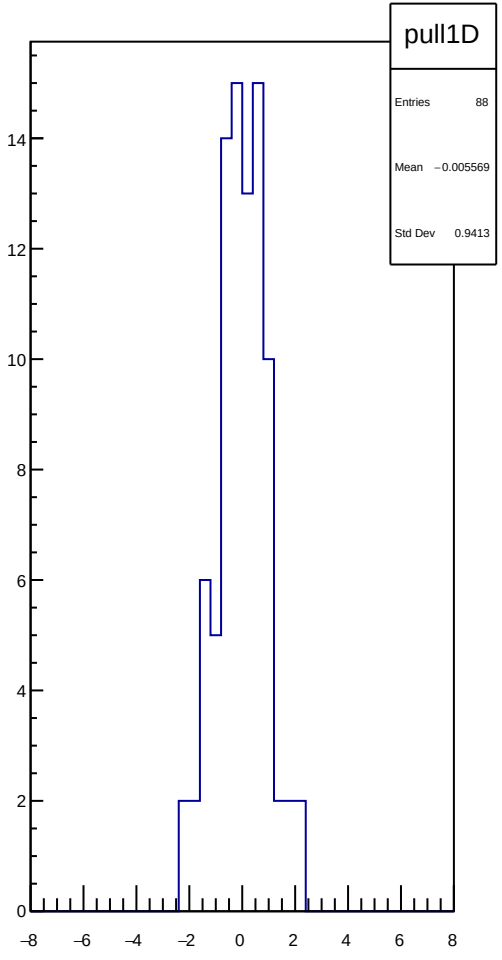

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3478 / 87
p0 3593 ± 2.796
4100
4000
3900
3800
3700
3600
3500
3400
3300

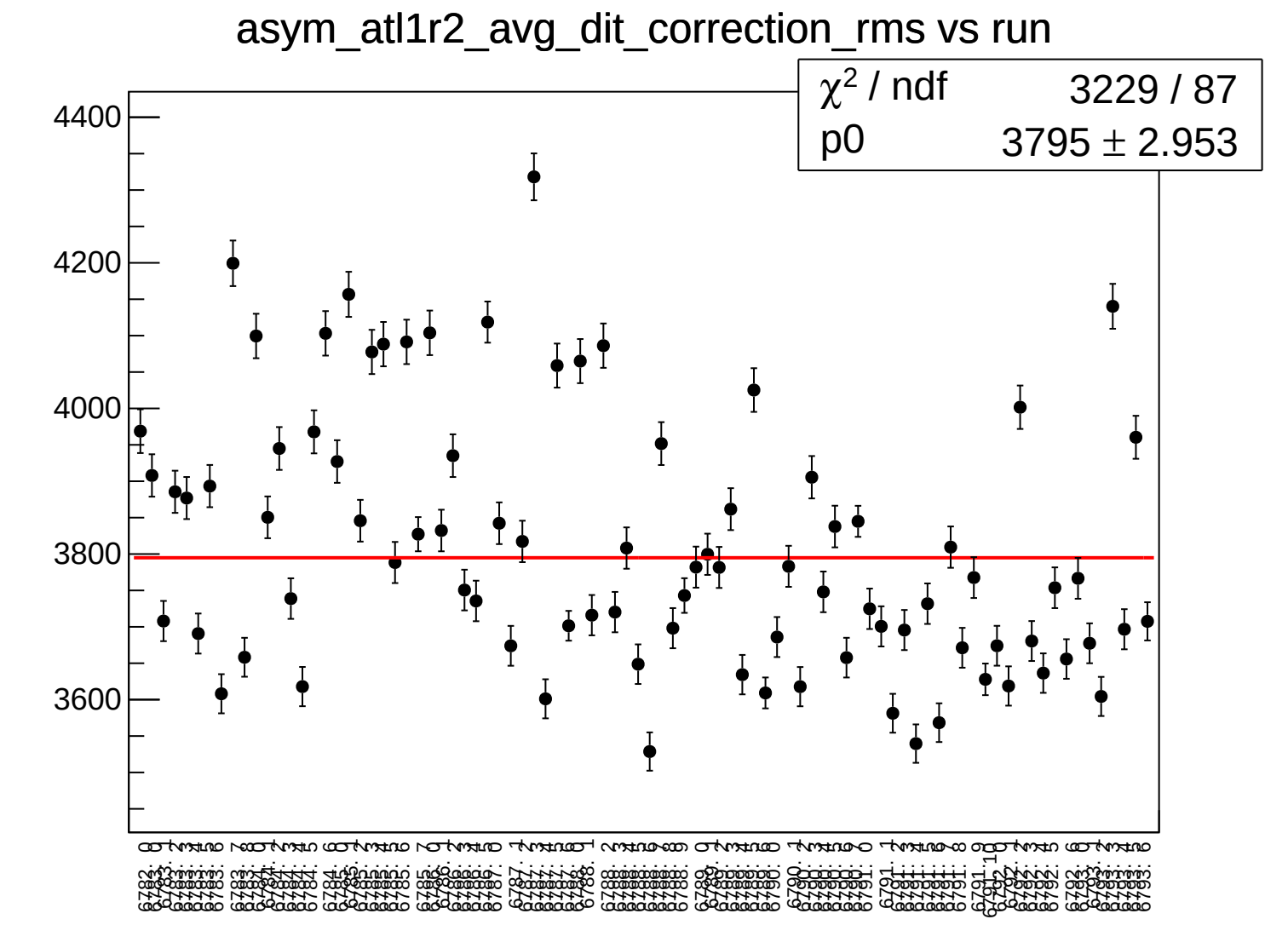

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 91.88 / 87
p0 −667.8 ± 1877
pull
Entries 88
Mean 311.1
Std Dev 0

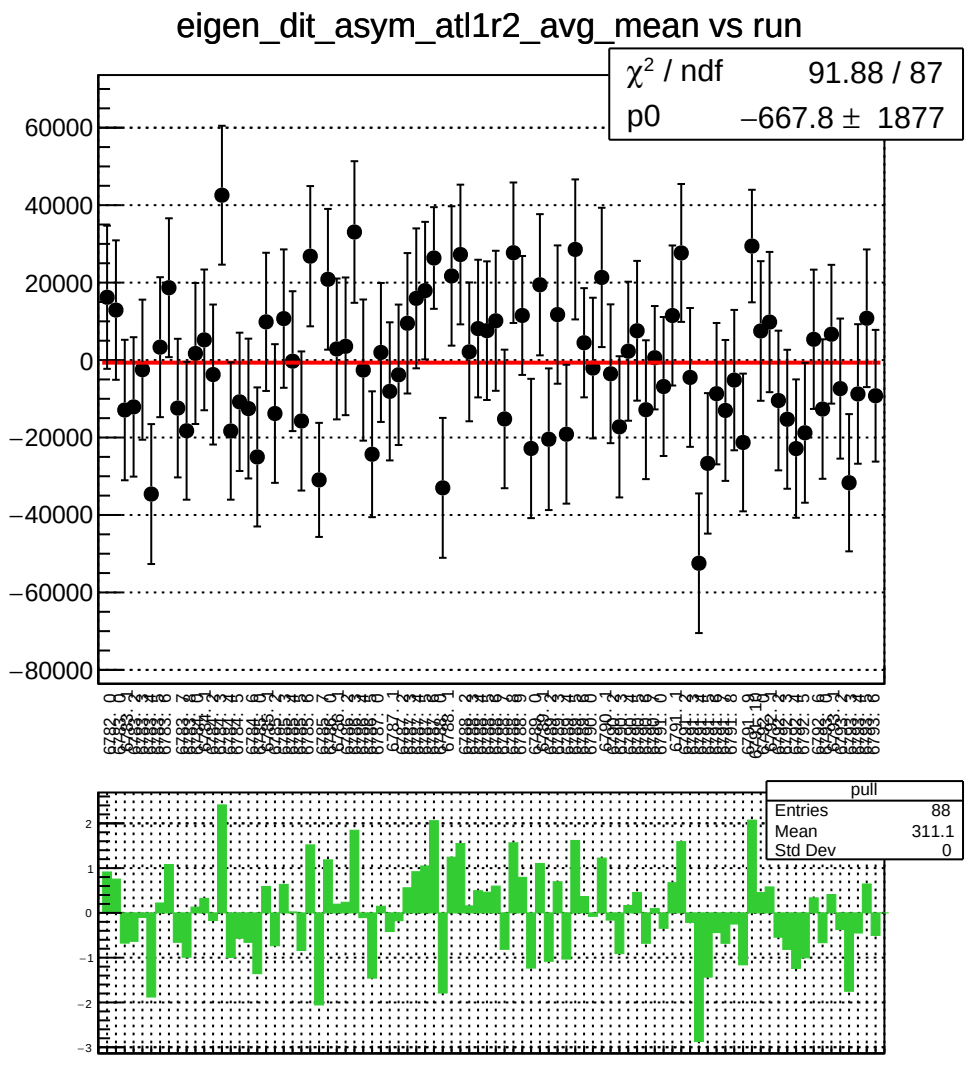

pull1D
Entries 88
Mean −0.009226
Std Dev 1.022

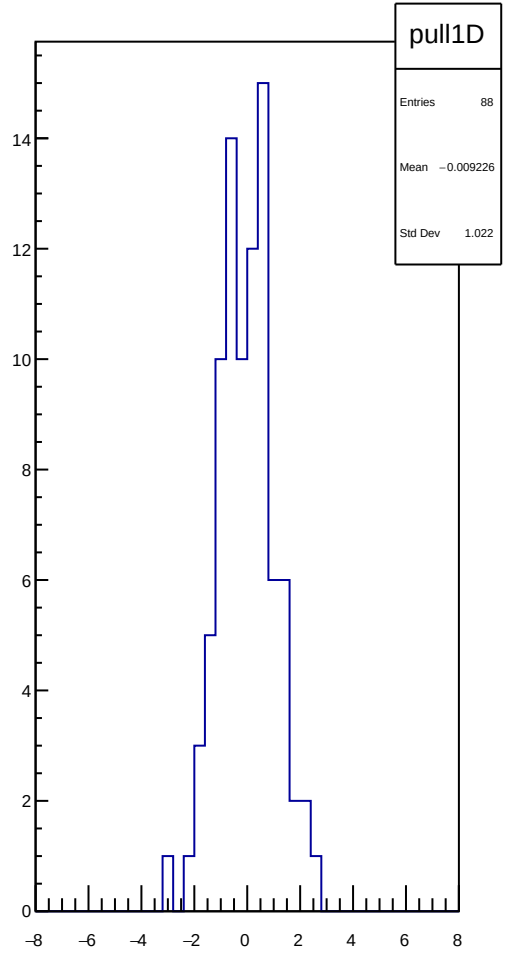

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 107.2 / 87
p0 1707 ± 1.327
1740
1720
1700
1680
1660

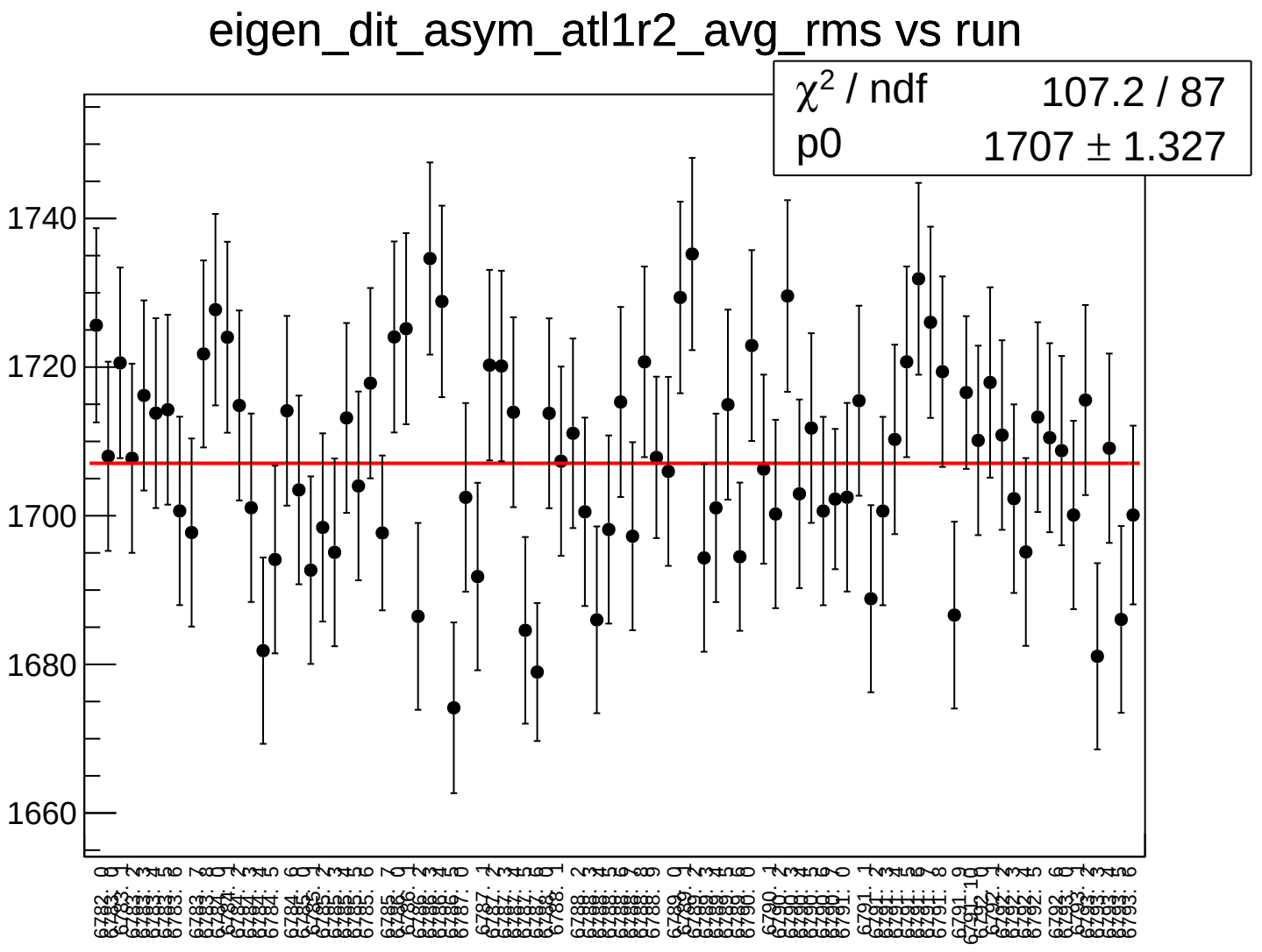

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.98 / 87
p0 −709.8 ± 4176
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 142.6
Std Dev 0
2
1
0
−1
−2

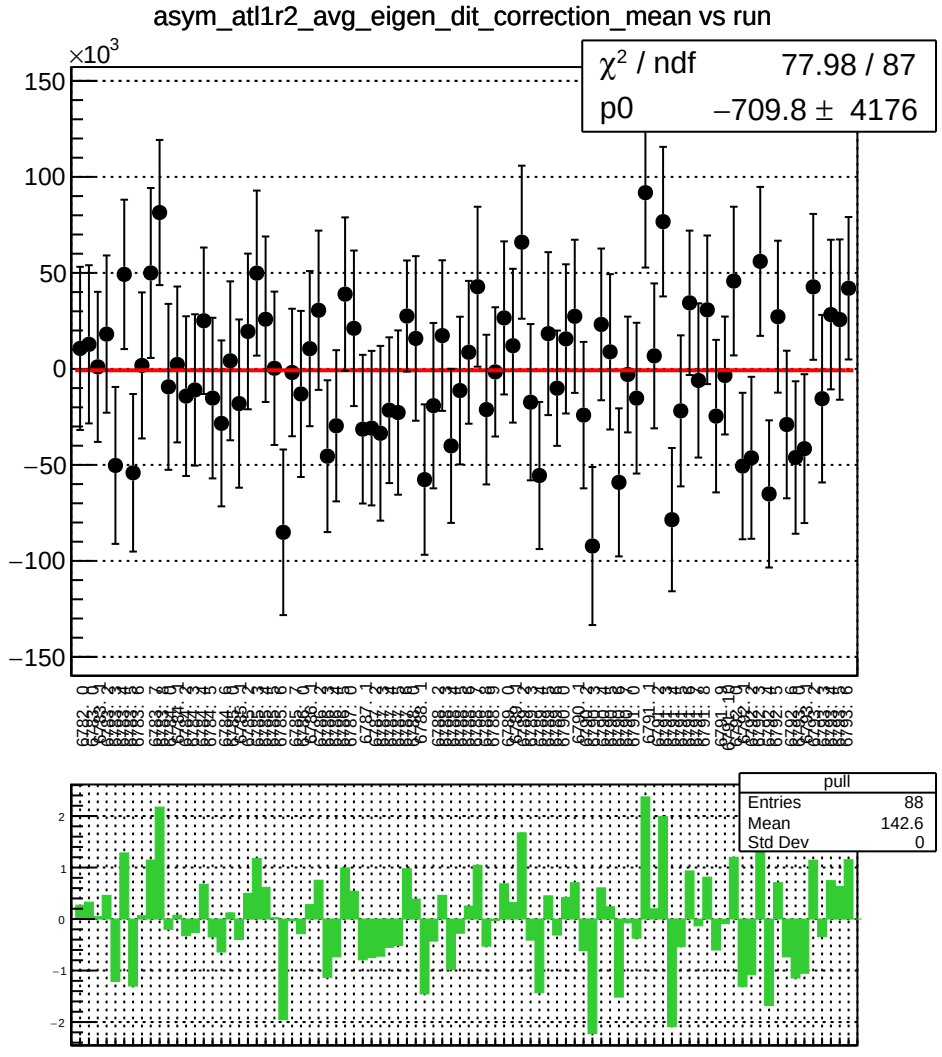

pull1D
Entries 88
Mean −0.005569
Std Dev 0.9413
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

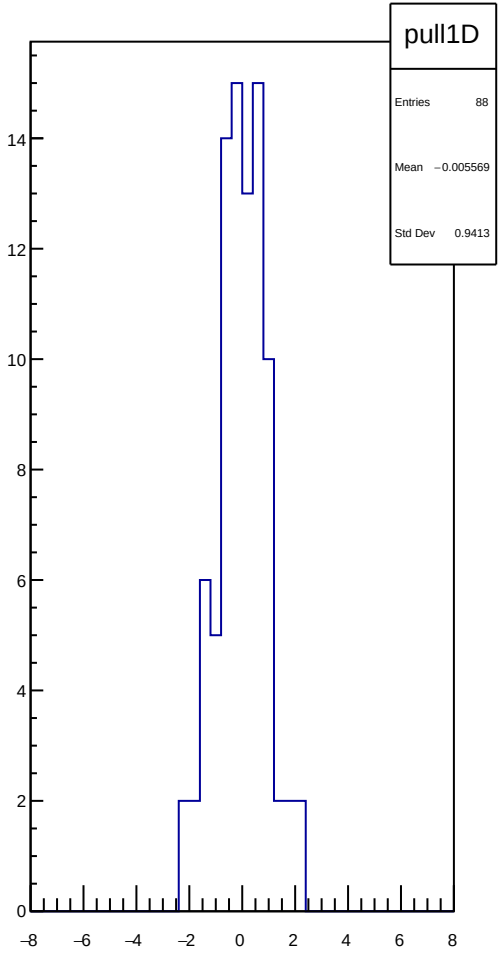

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3229 / 87
p0 3795 ± 2.953
4400
4200
4000
3800
3600

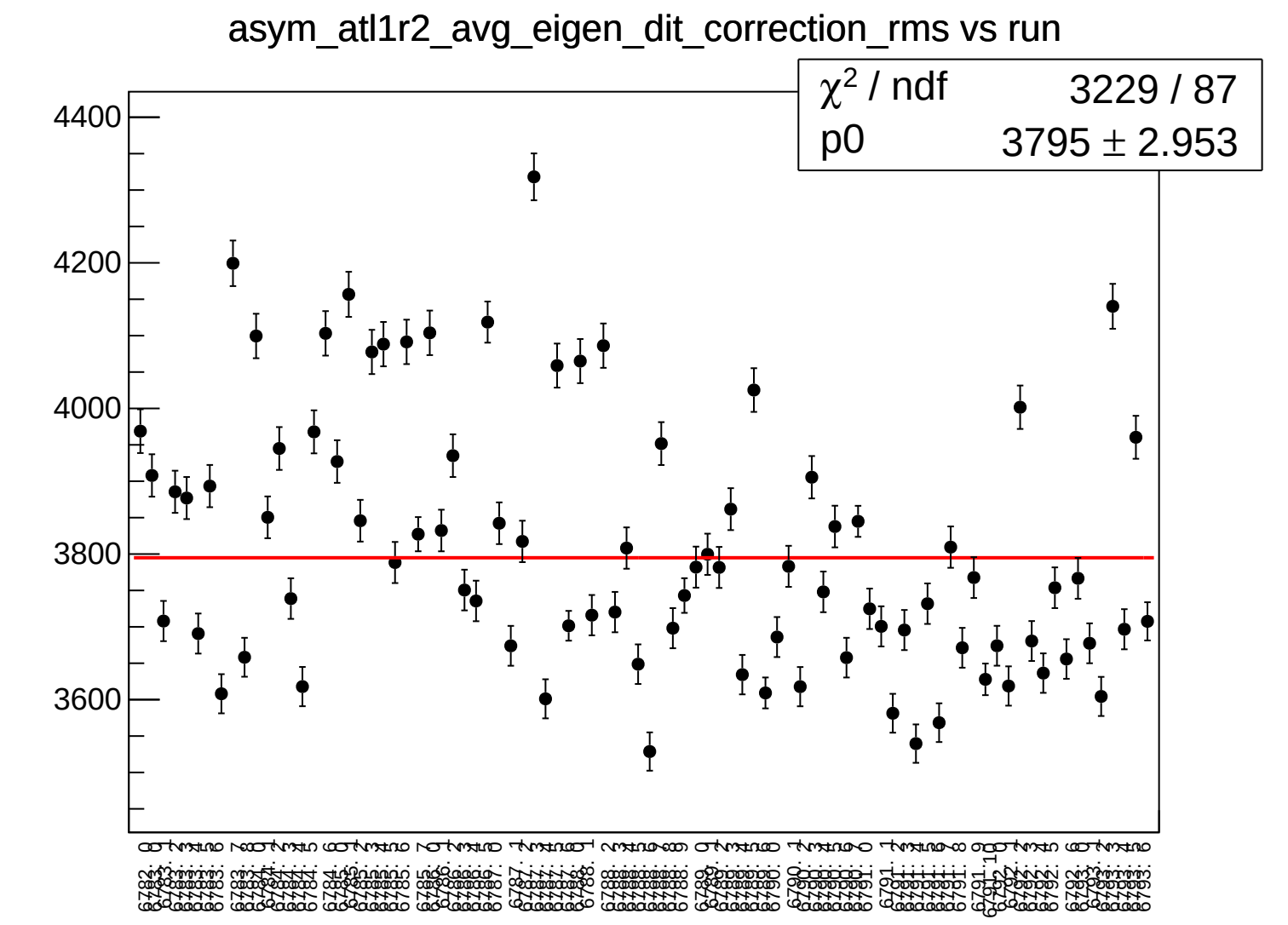

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 91.88 / 87
p0 −667.8 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 311.1
Std Dev 0
2
1
0
−1
−2
−3

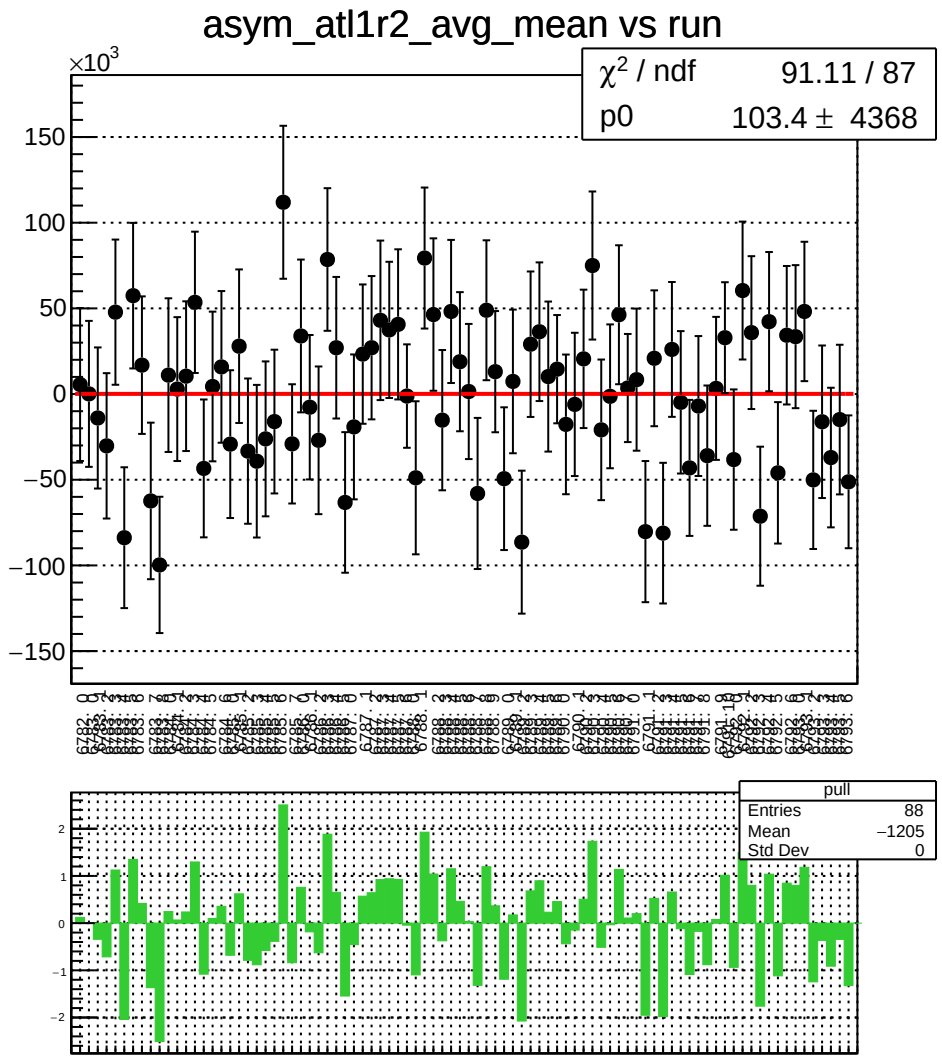

pull1D
Entries 88
Mean −0.009226
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

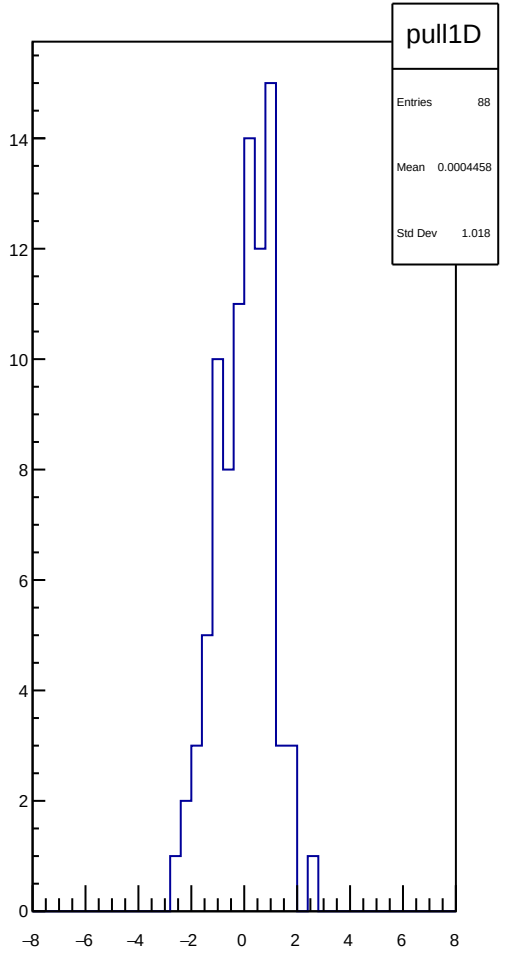

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 107.2 / 87
p0 1707 ± 1.327
1740
1720
1700
1680
1660

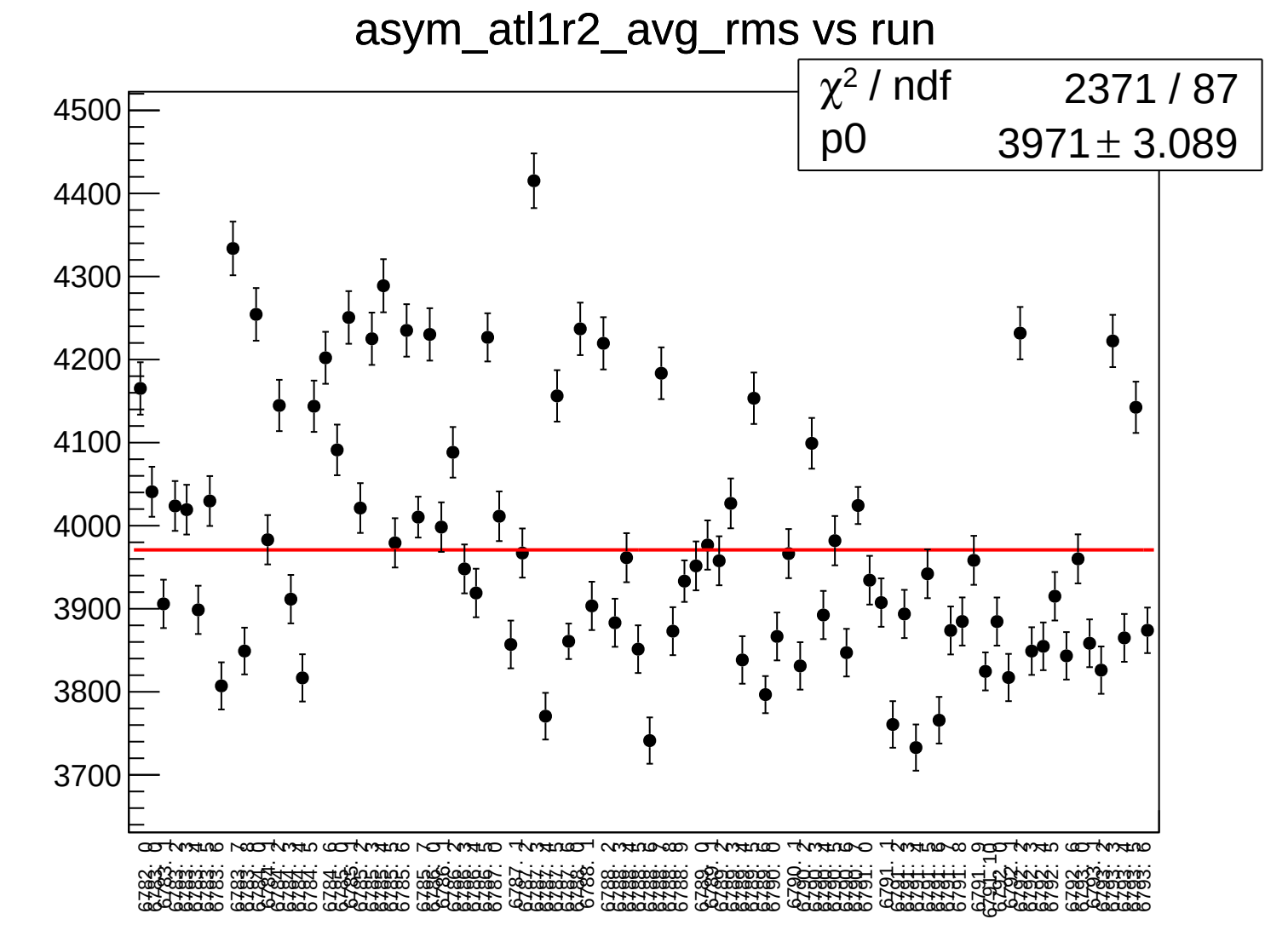

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.98 / 87
p0 −709.8 ± 4176
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 142.6
Std Dev 0
2
1
0
−1
−2

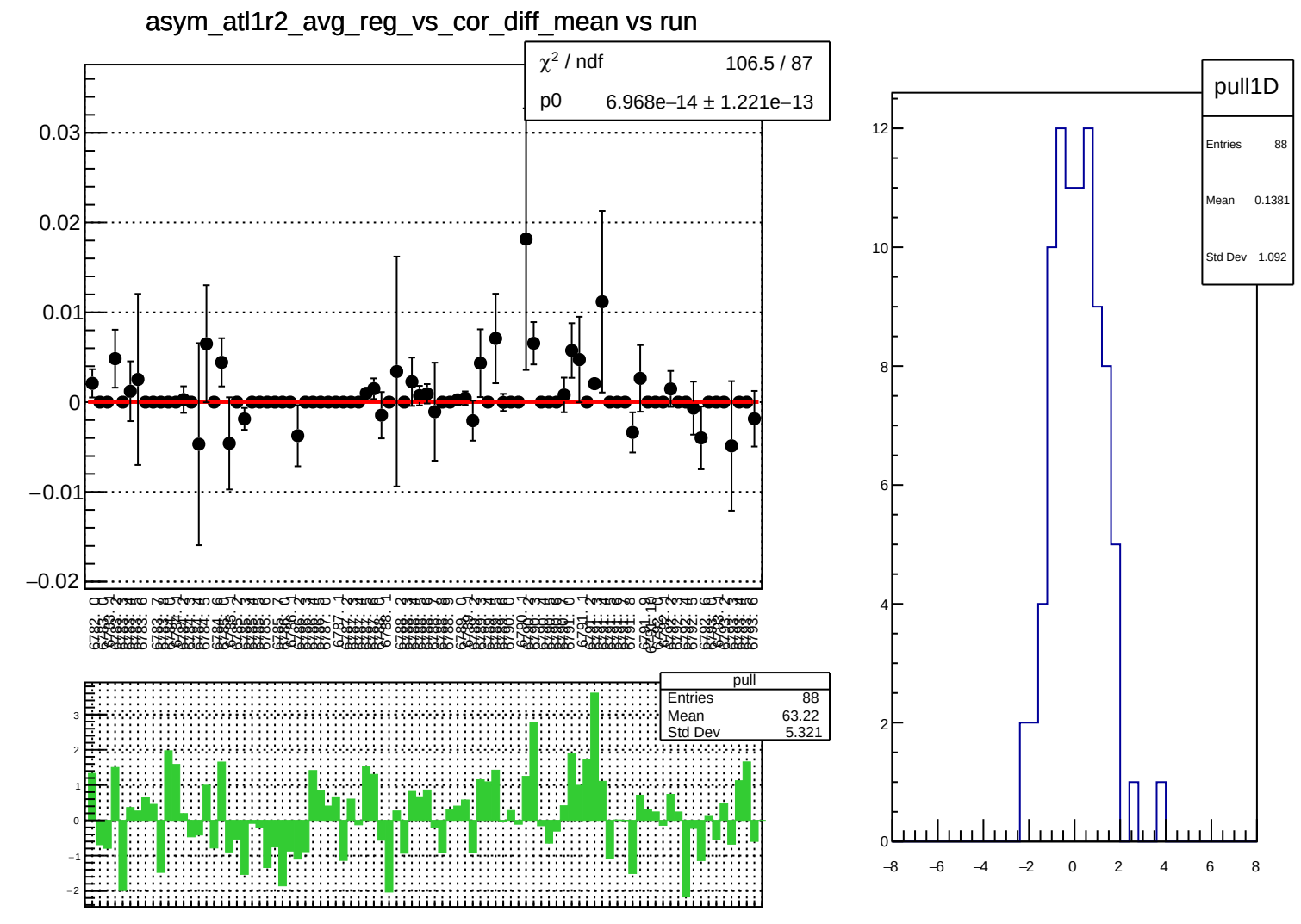

pull1D
Entries 88
Mean −0.005569
Std Dev 0.9413
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

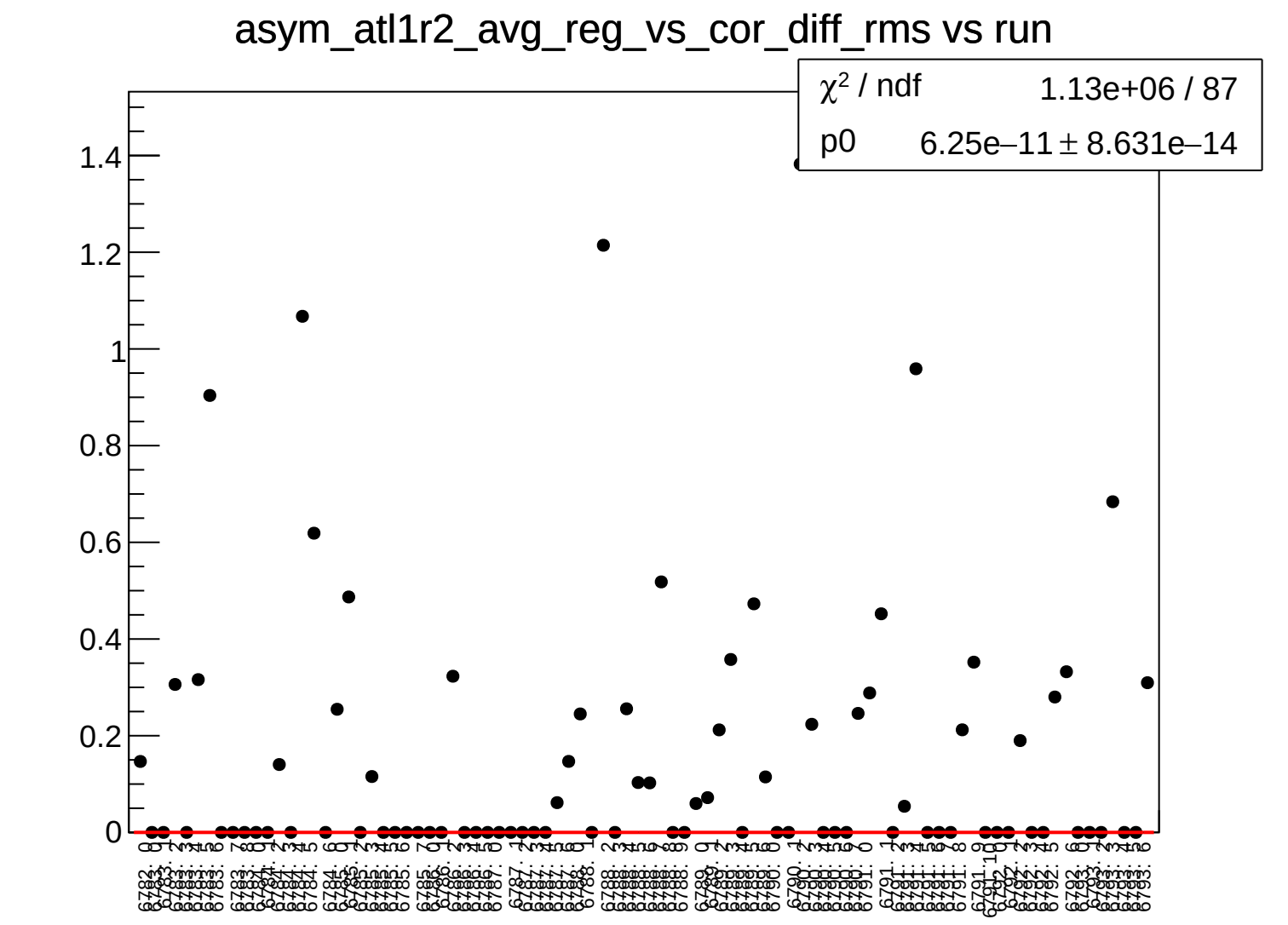

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3229 / 87
p0 3795 ± 2.953
4400
4200
4000
3800
3600

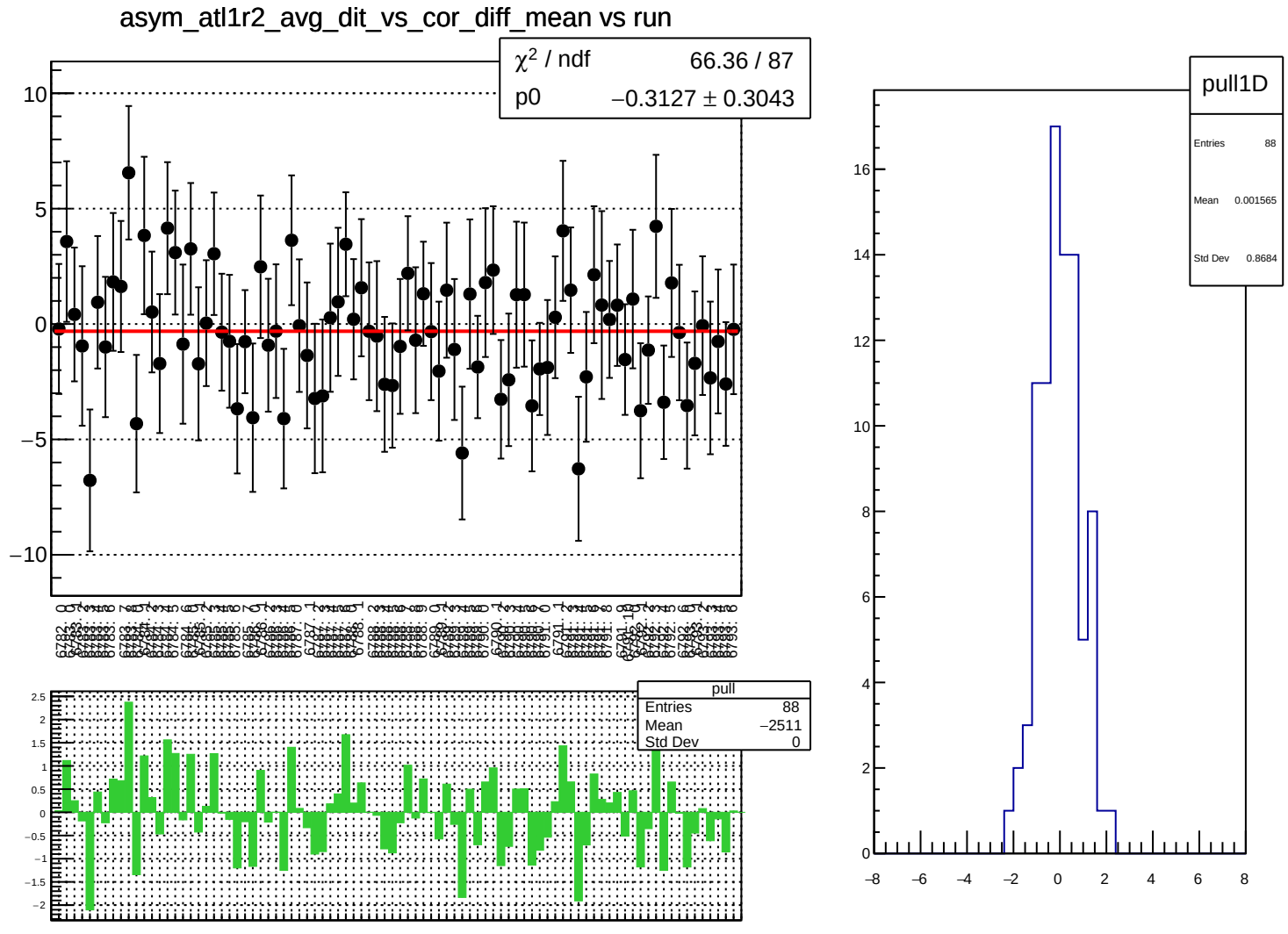

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 91.11 / 87
p0 103.4 ± 4368
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1205
Std Dev 0
2
1
0
−1
−2

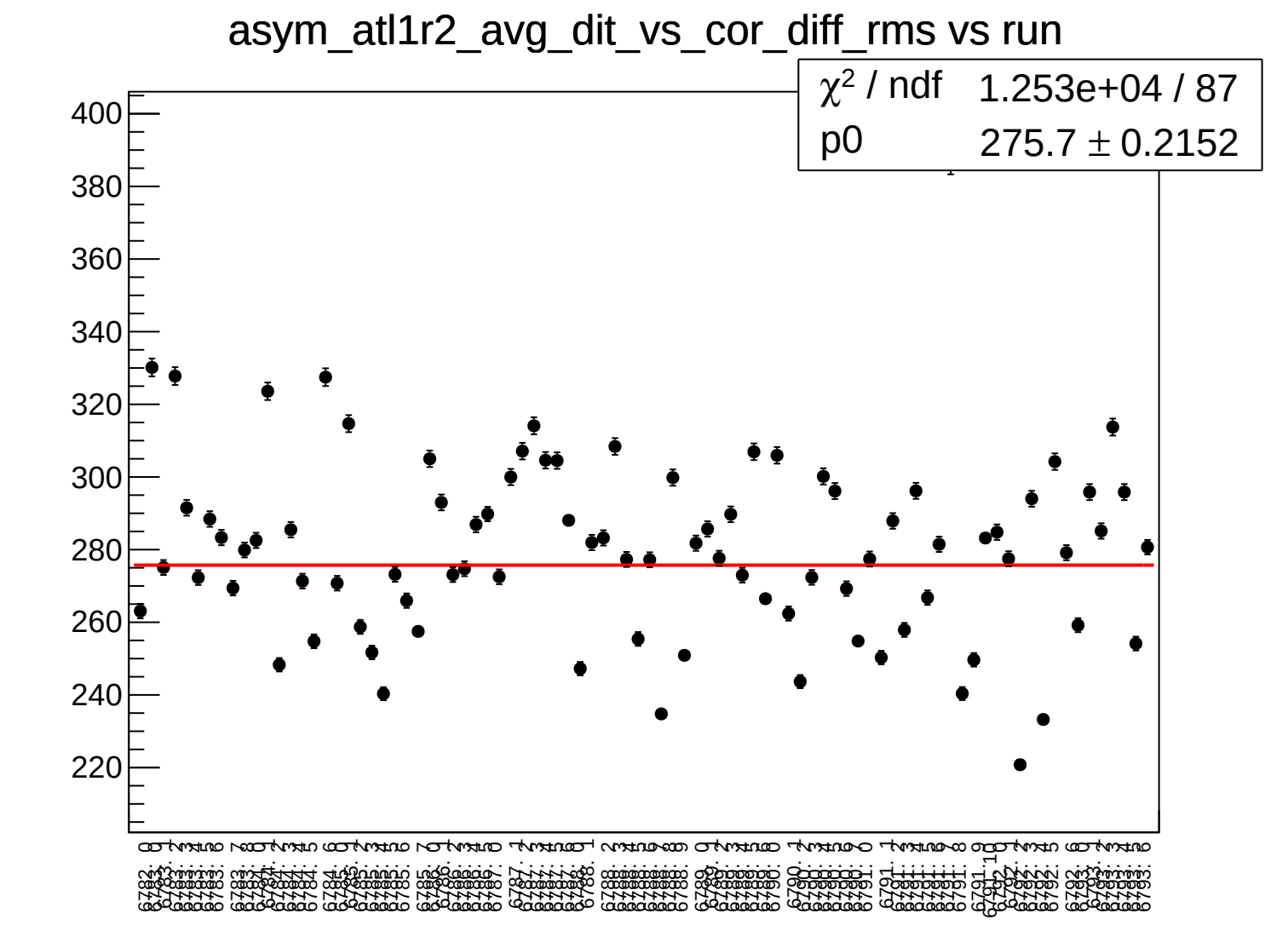

pull1D
Entries 88
Mean 0.0004458
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

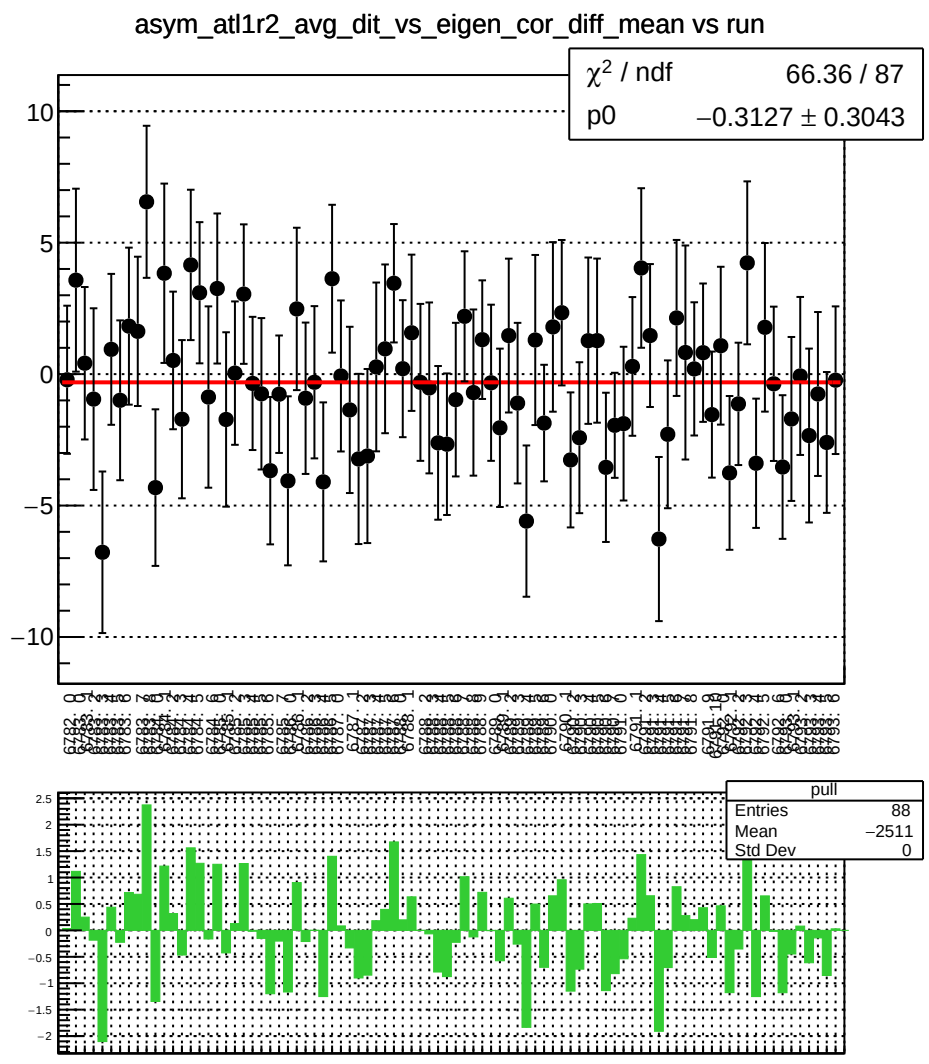

asym_atl1r2_avg_rms vs run
χ² / ndf 2371 / 87
p0 3971 ± 3.089
4500
4400
4300
4200
4100
4000
3900
3800
3700

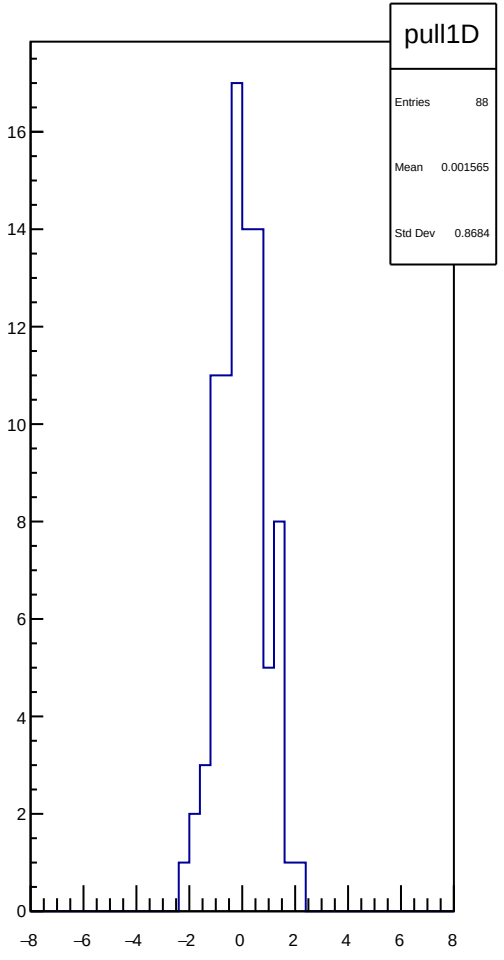

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 87
p0 6.968e−14 ± 1.221e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 63.22
Std Dev 5.321
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1381
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

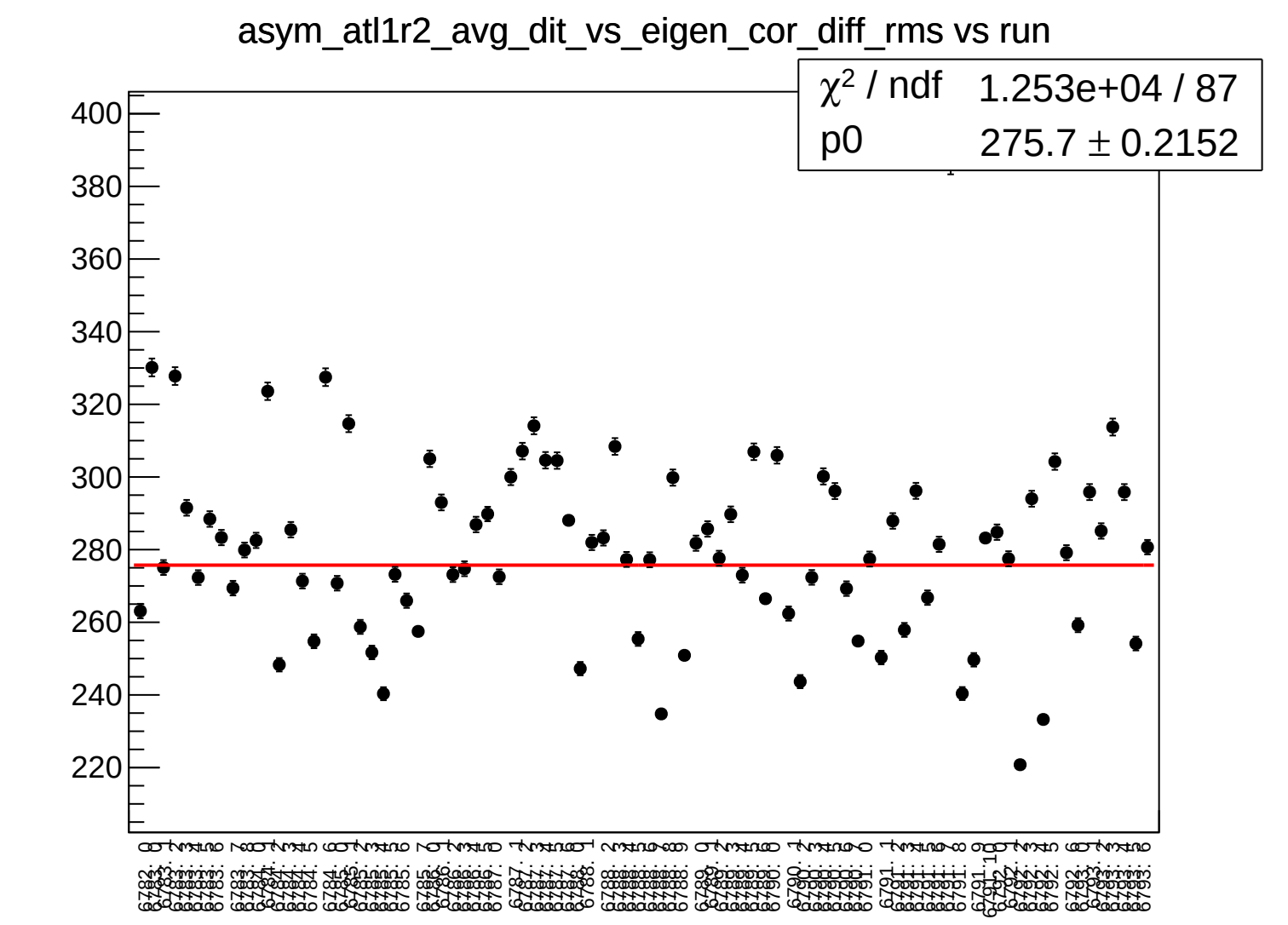

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 87
p0 6.25e−11 ± 8.631e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

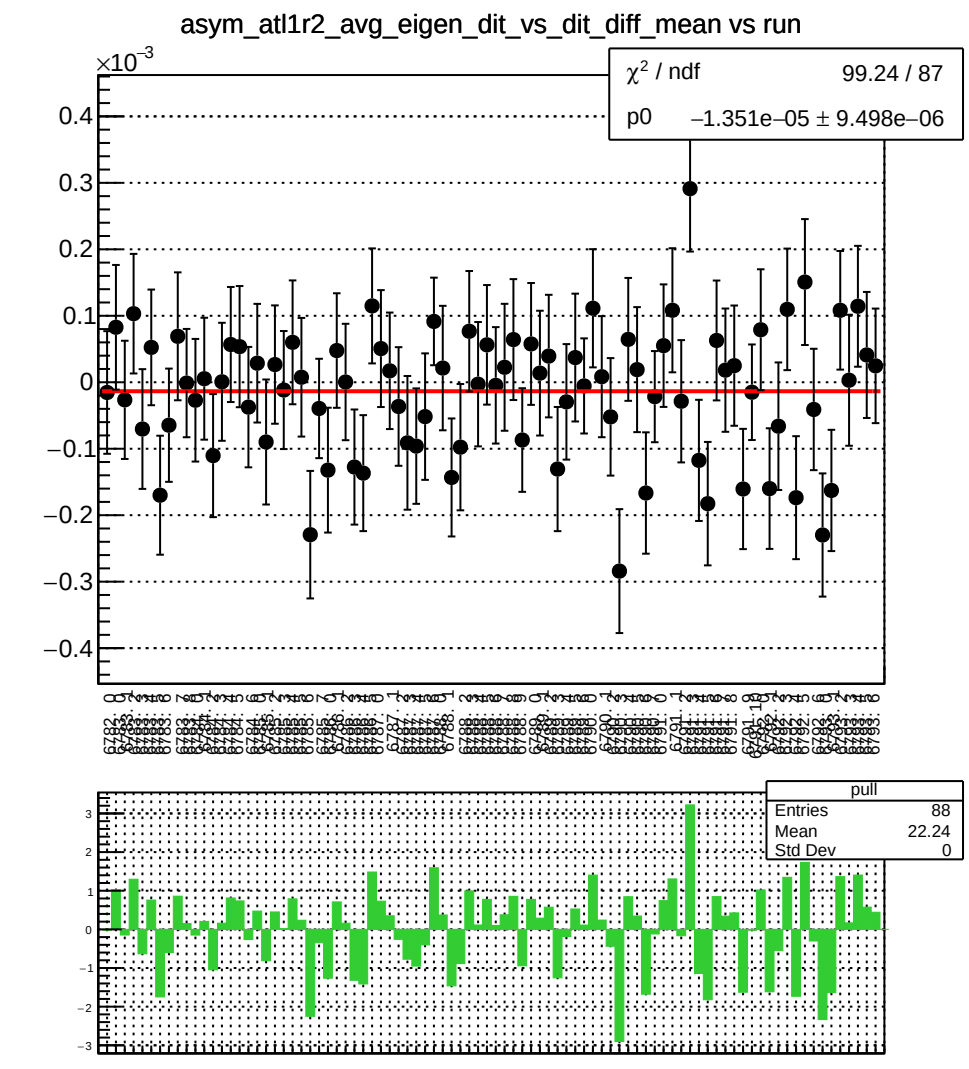

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.36 / 87
p0 −0.3127 ± 0.3043
pull
Entries 88
Mean −2511
Std Dev 0
pull1D
Entries 88
Mean 0.001565
Std Dev 0.8684

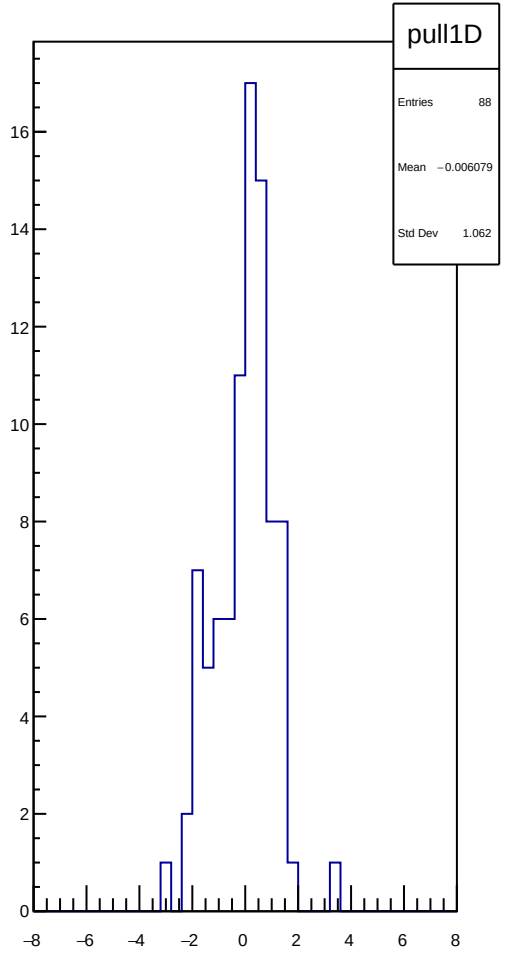

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.253e+04 / 87
p0 275.7 ± 0.2152
400
380
360
340
320
300
280
260
240
220

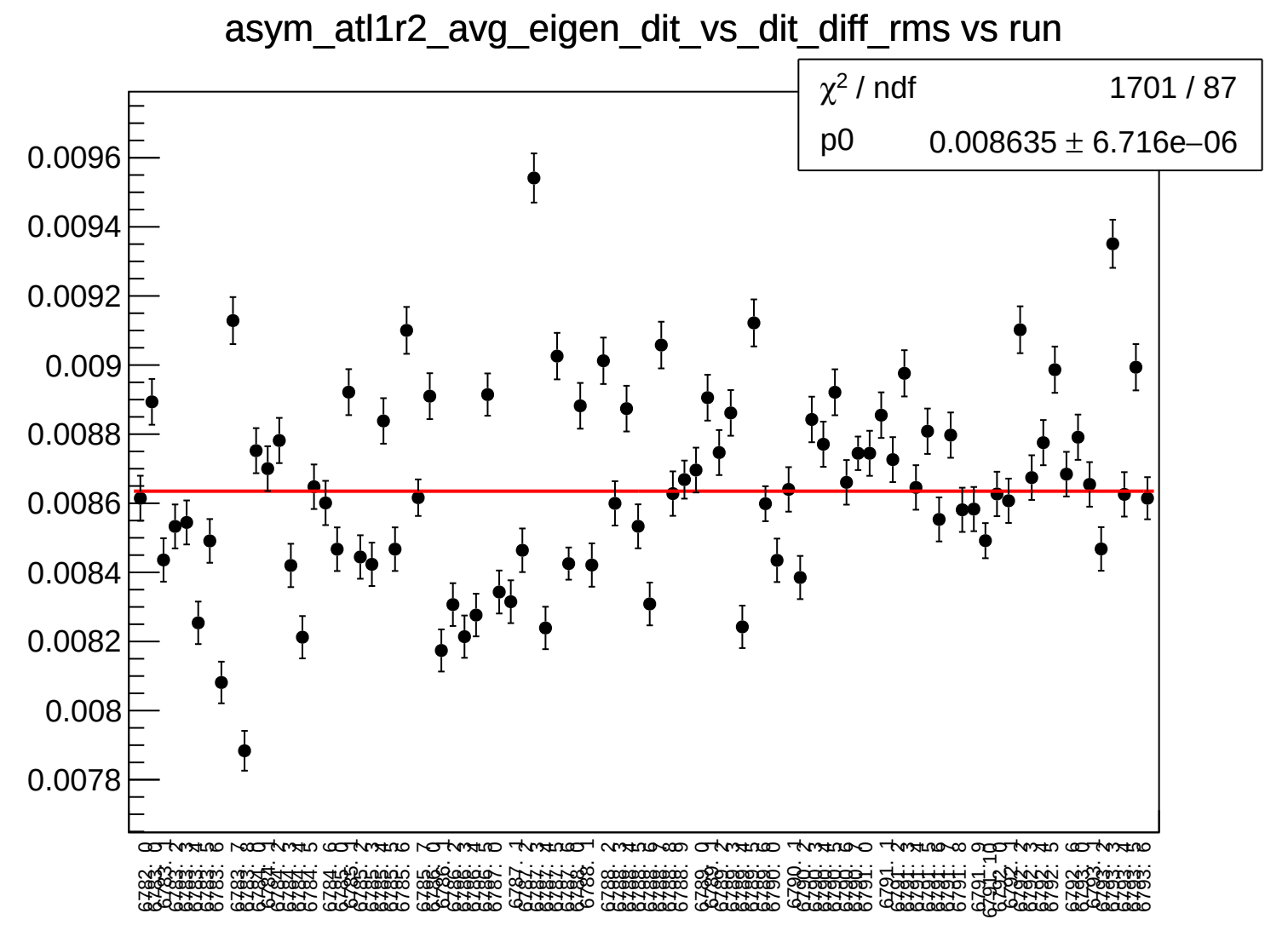

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.36 / 87
p0 −0.3127 ± 0.3043
10
5
0
−5
−10
pull
Entries 88
Mean −2511
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

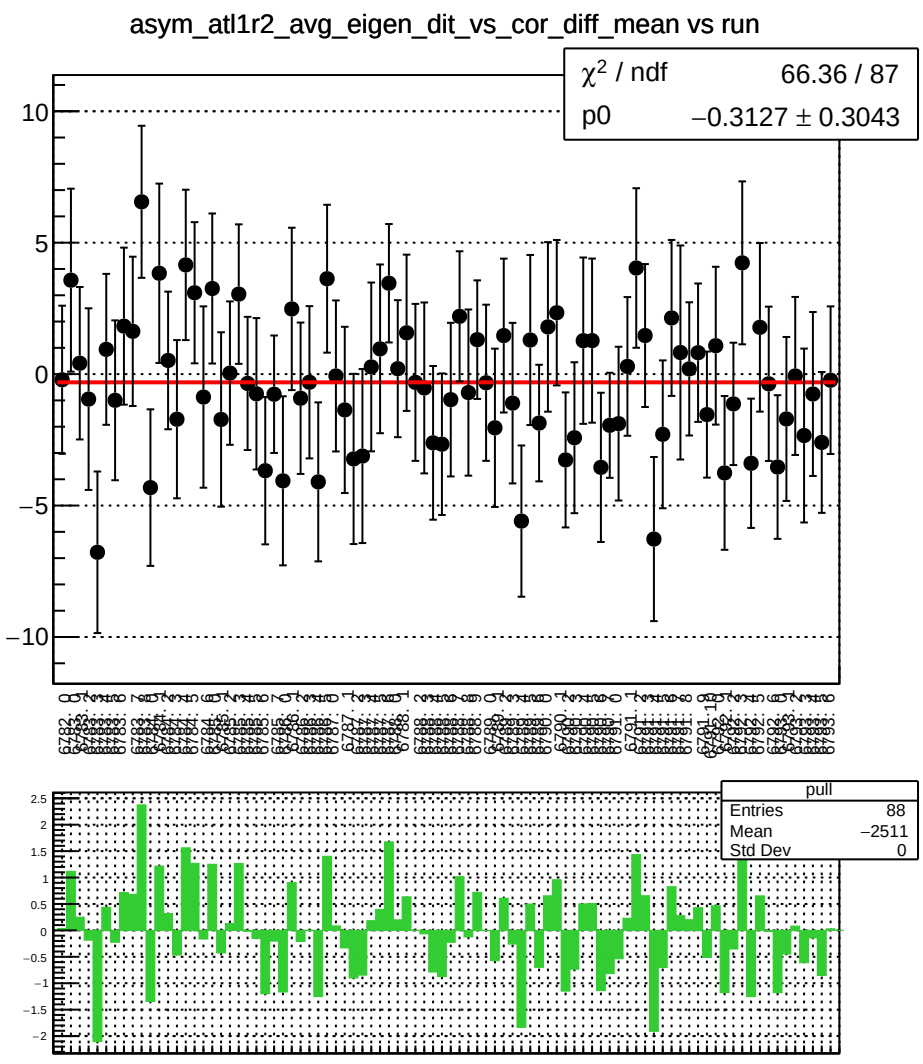

pull1D
Entries 88
Mean 0.001565
Std Dev 0.8684
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

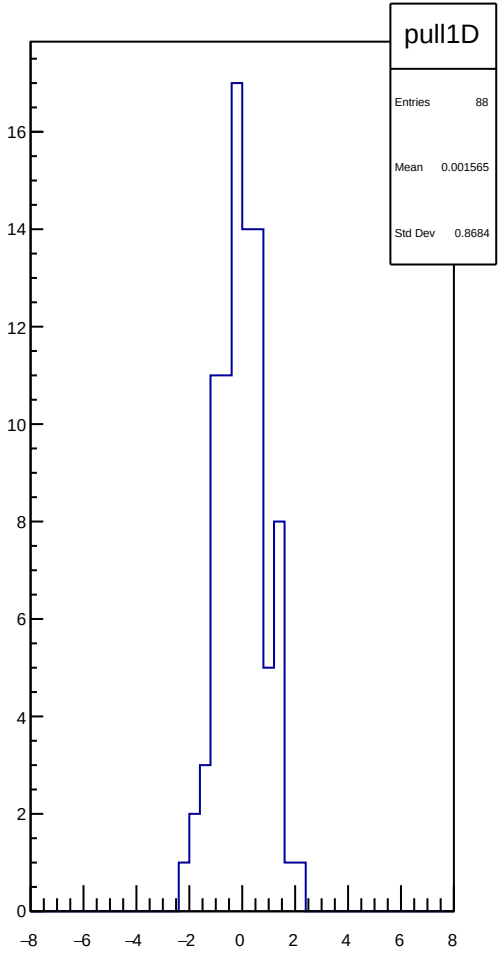

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.253e+04 / 87
p0 275.7 ± 0.2152
400
380
360
340
320
300
280
260
240
220

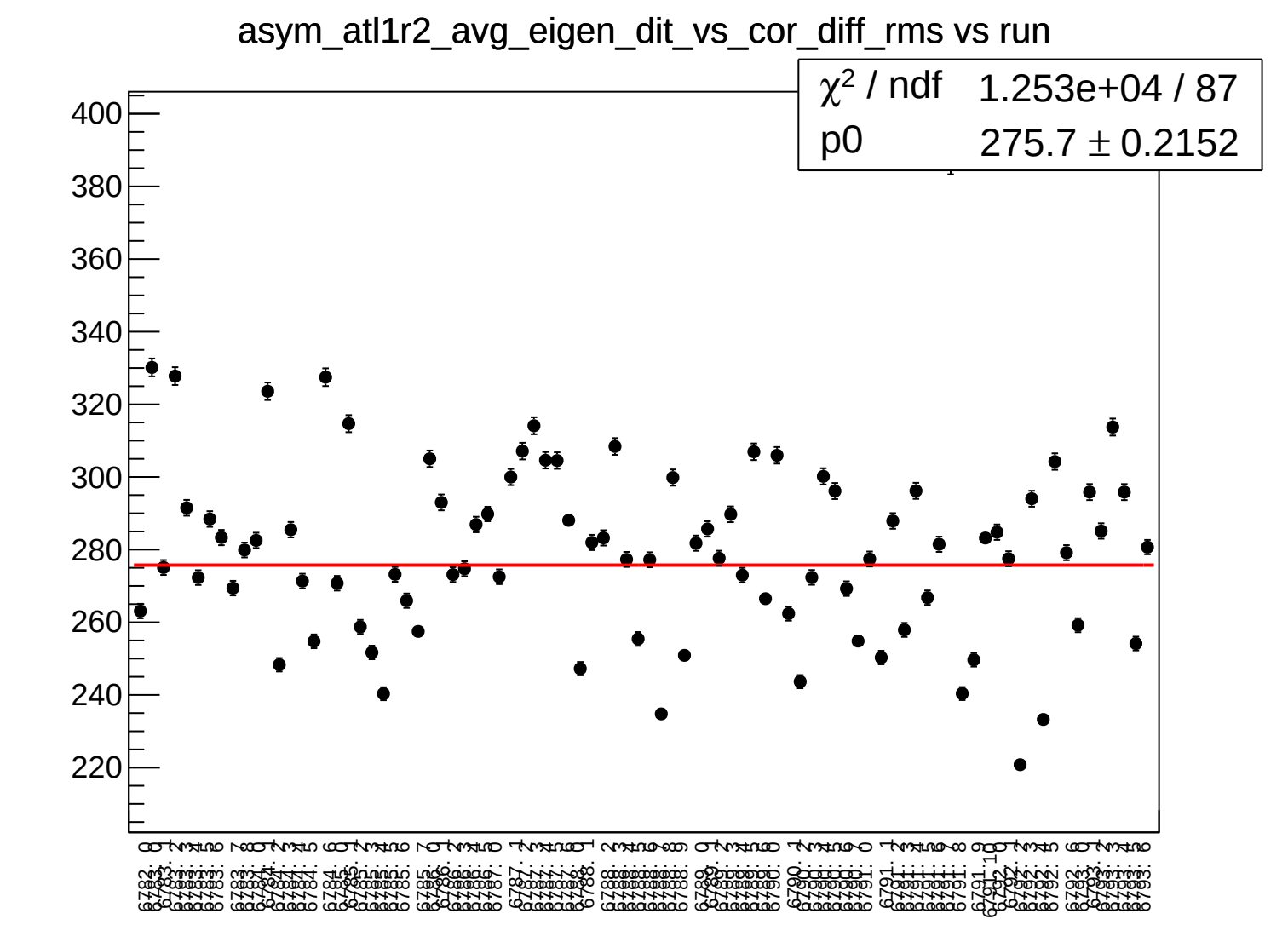

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.24 / 87
p0 −1.351e−05 ± 9.498e−06
pull
Entries 88
Mean 22.24
Std Dev 0

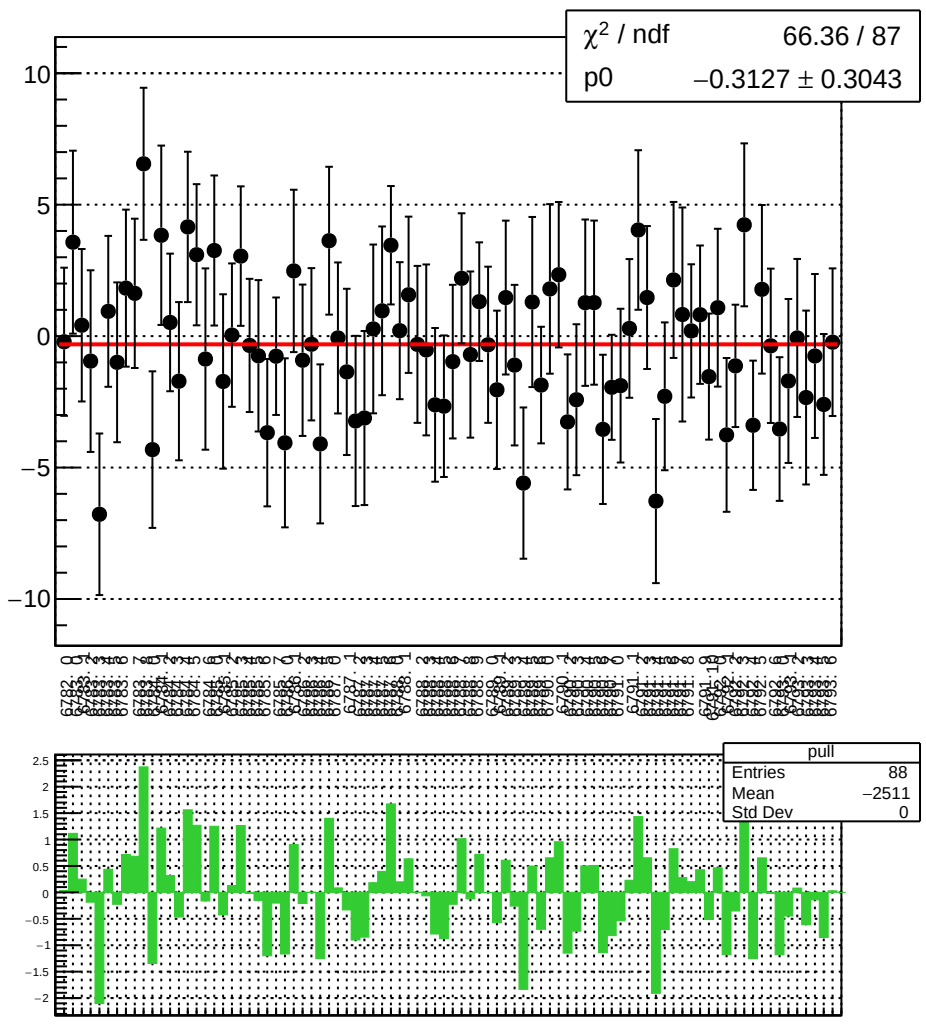

pull1D
Entries 88
Mean −0.006079
Std Dev 1.062

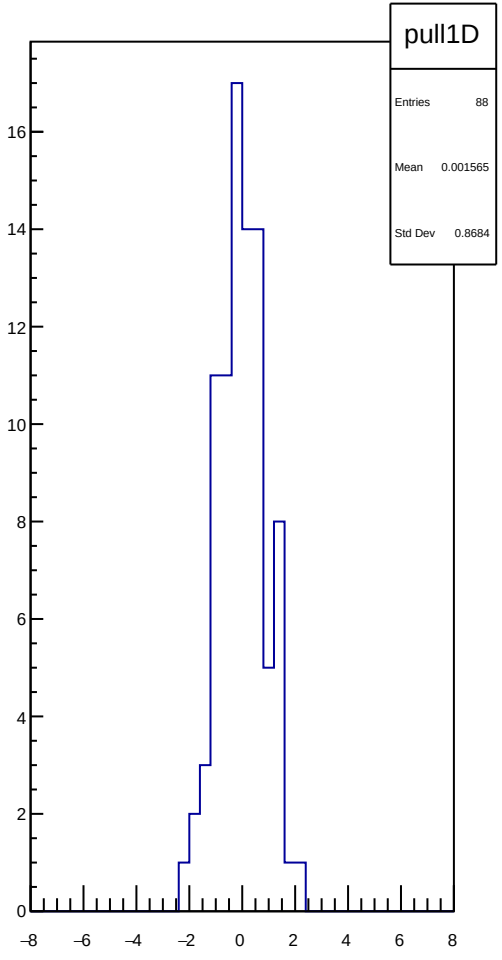

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1701 / 87
p0 0.008635 ± 6.716e−06
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078

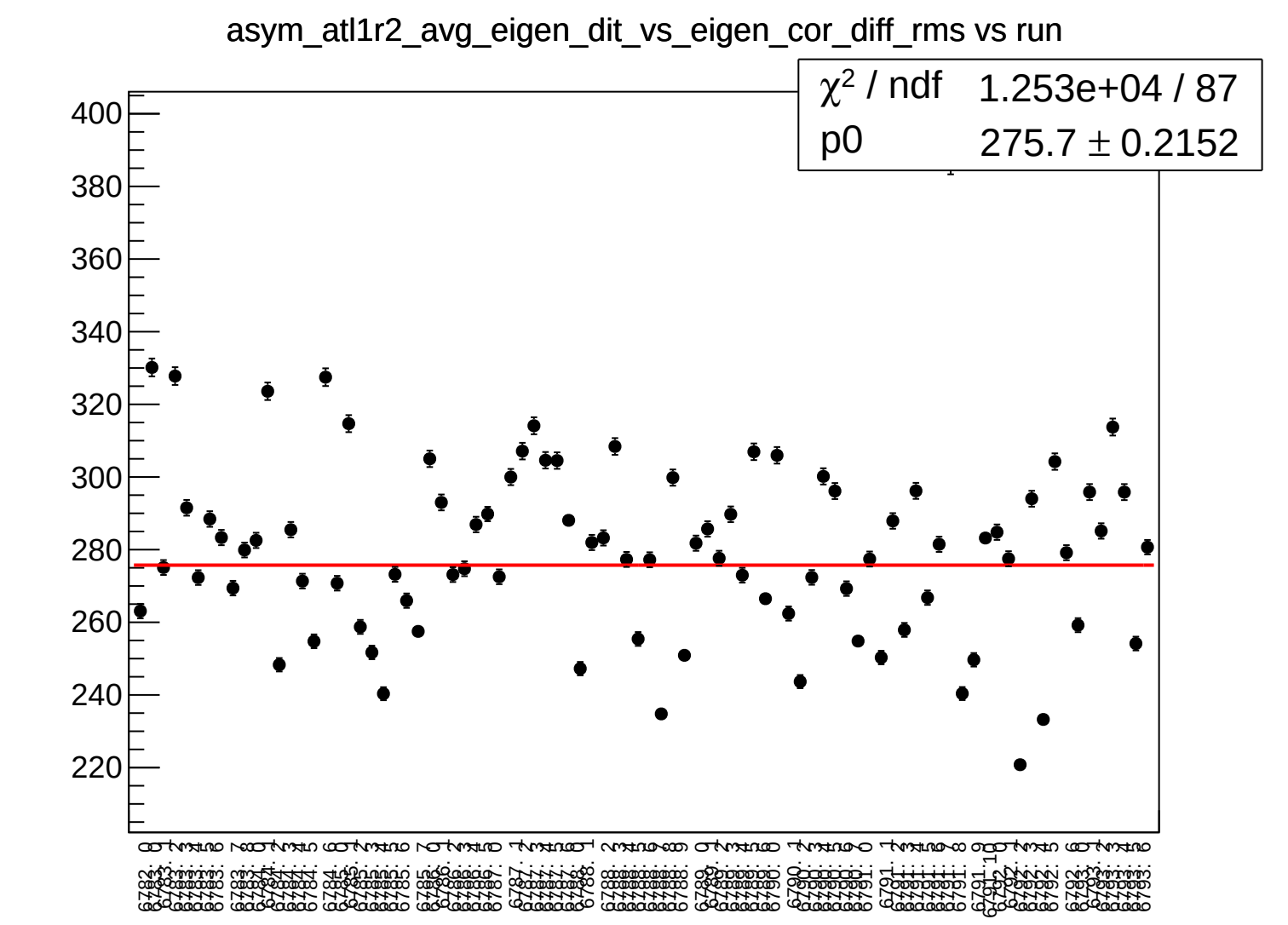

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.36 / 87
p0 −0.3127 ± 0.3043
pull
Entries 88
Mean −2511
Std Dev 0

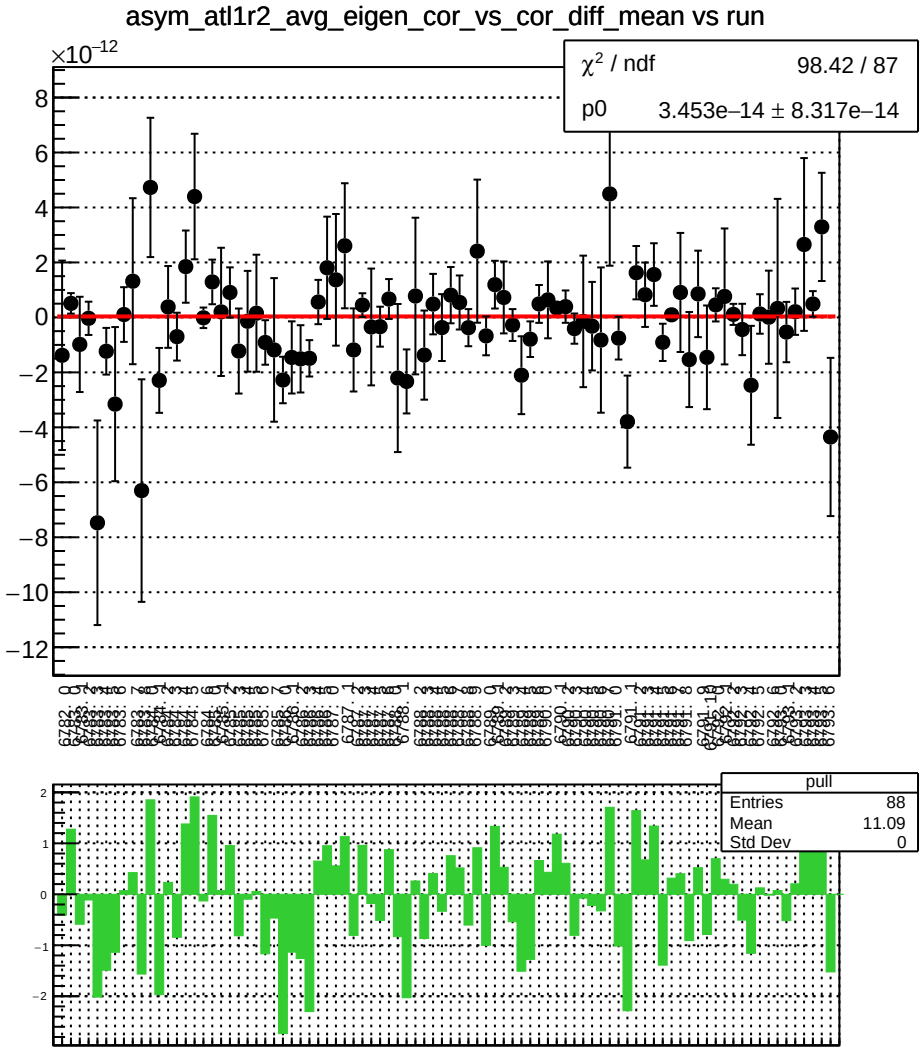

pull1D
Entries 88
Mean 0.001565
Std Dev 0.8684

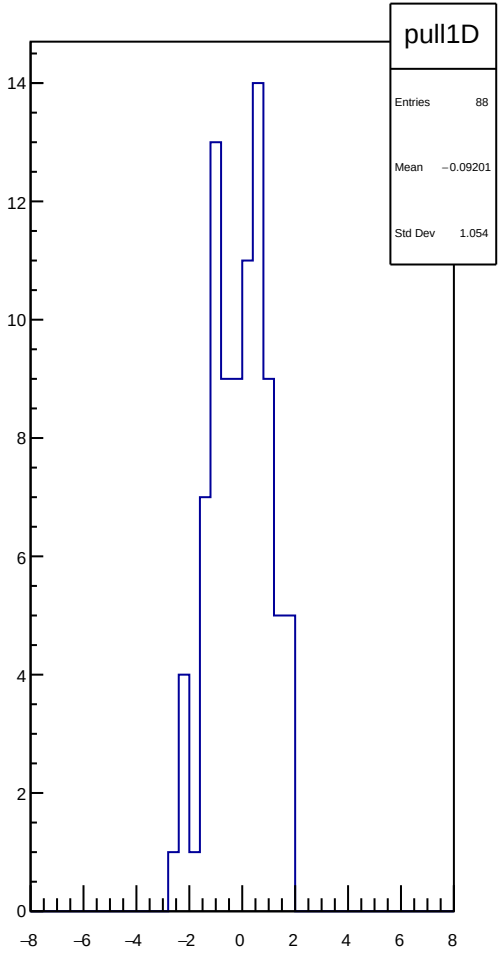

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.253e+04 / 87
p0 275.7 ± 0.2152
400
380
360
340
320
300
280
260
240
220

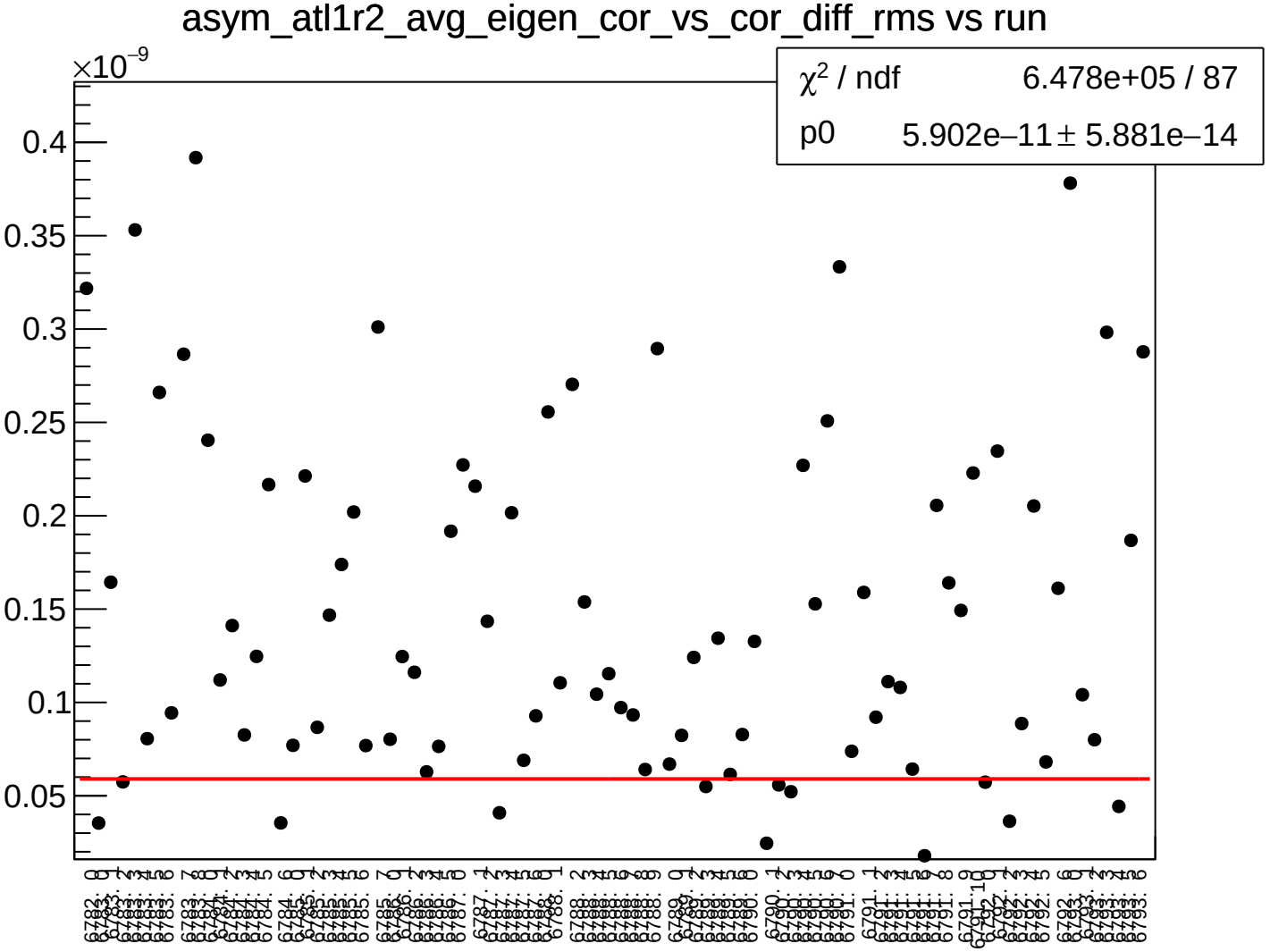

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.36 / 87
p0 −0.3127 ± 0.3043
pull
Entries 88
Mean −2511
Std Dev 0

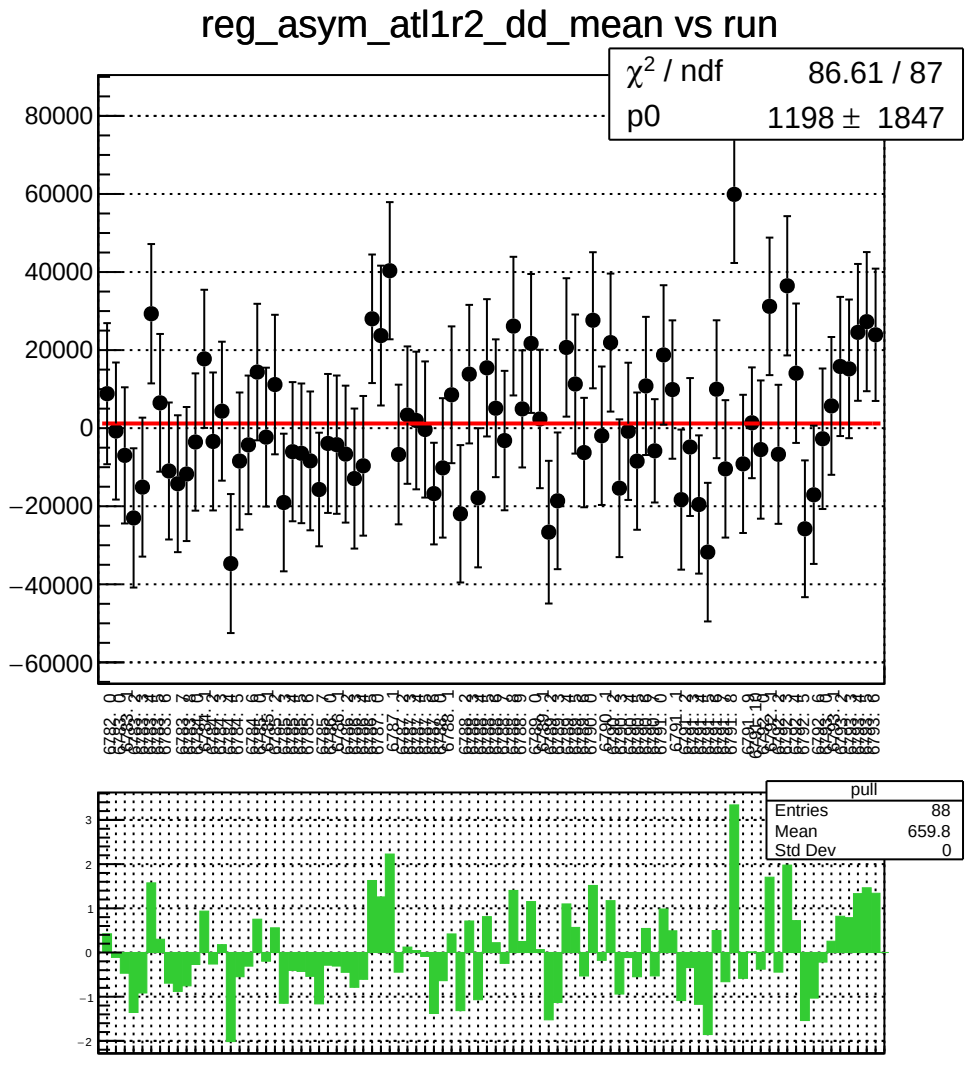

pull1D
Entries 88
Mean 0.001565
Std Dev 0.8684

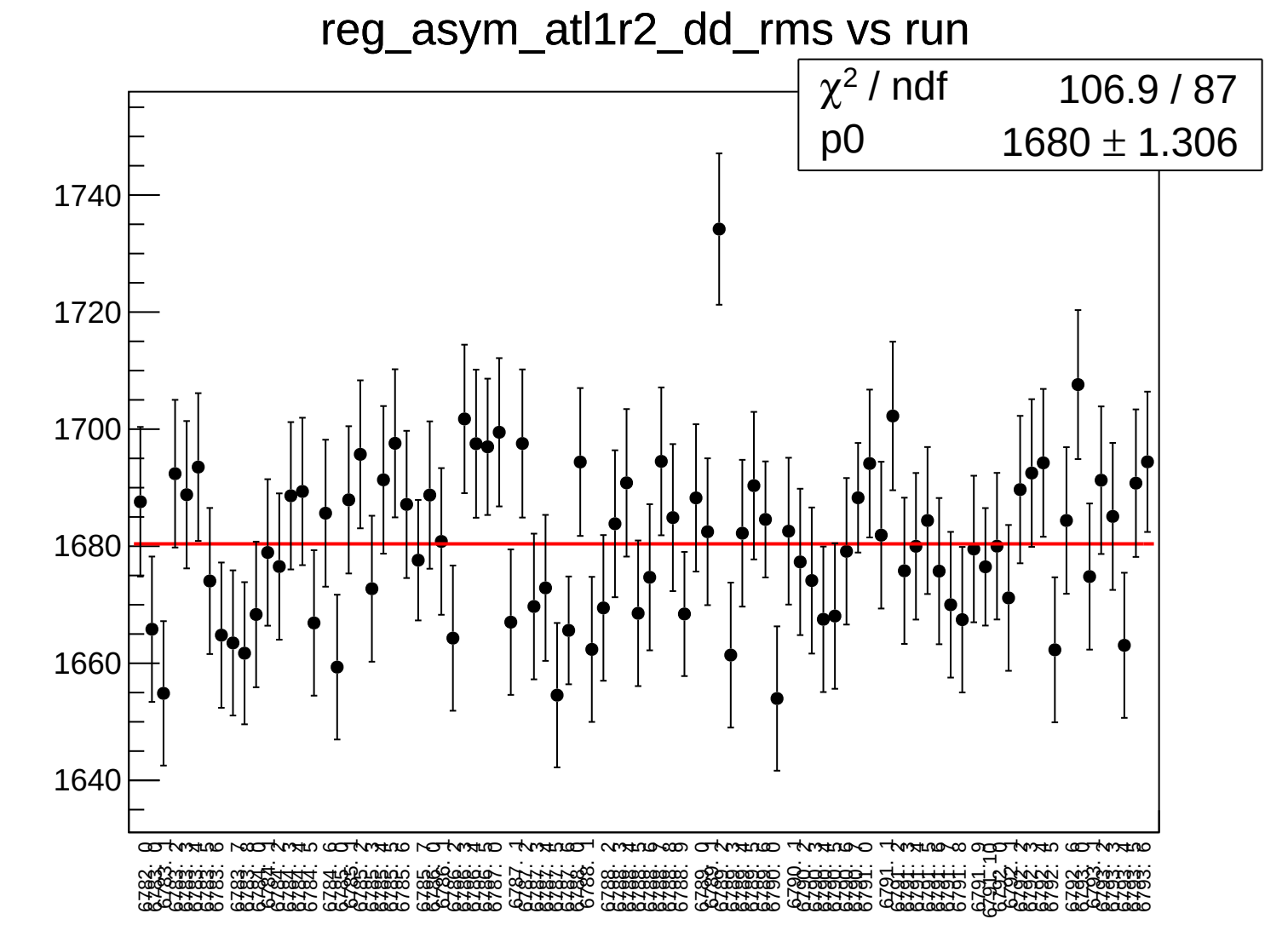

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.253e+04 / 87
p0 275.7 ± 0.2152
400
380
360
340
320
300
280
260
240
220

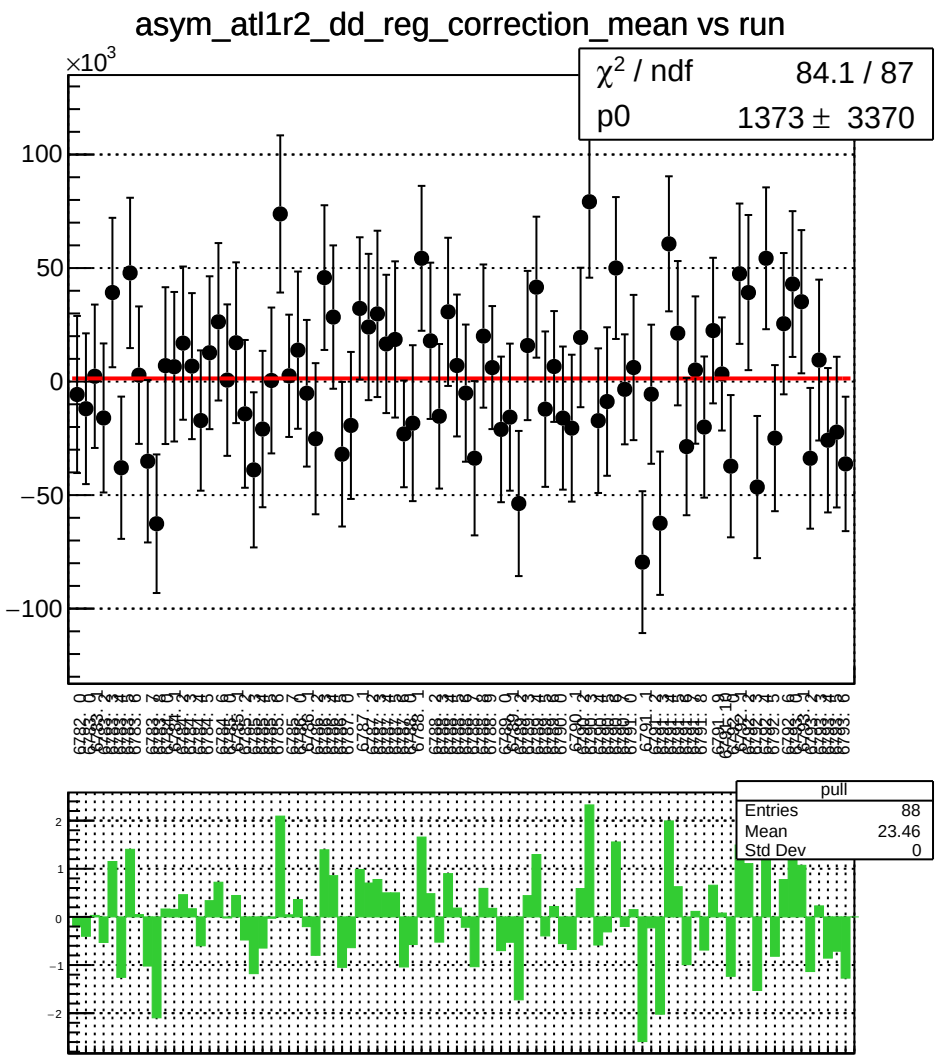

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.42 / 87
p0 3.453e−14 ± 8.317e−14
pull
Entries 88
Mean 11.09
Std Dev 0

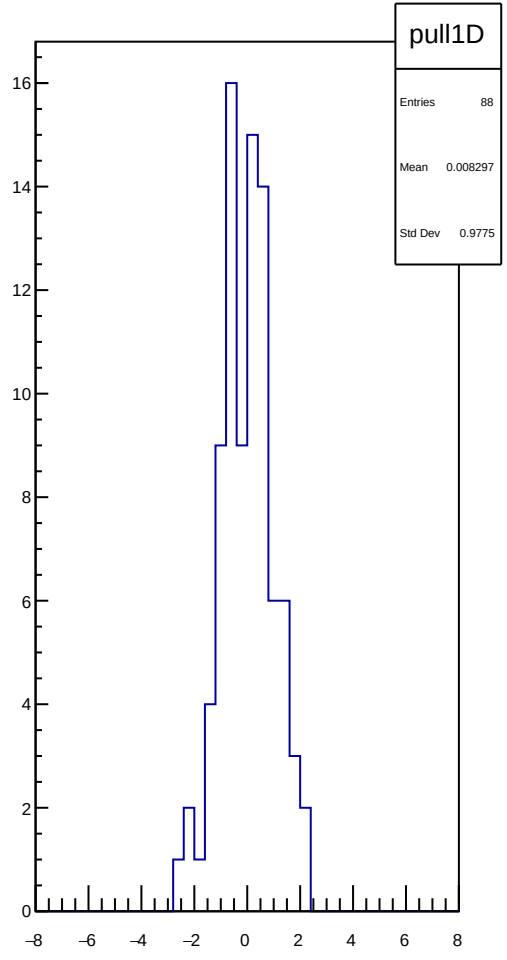

pull1D
Entries 88
Mean −0.09201
Std Dev 1.054

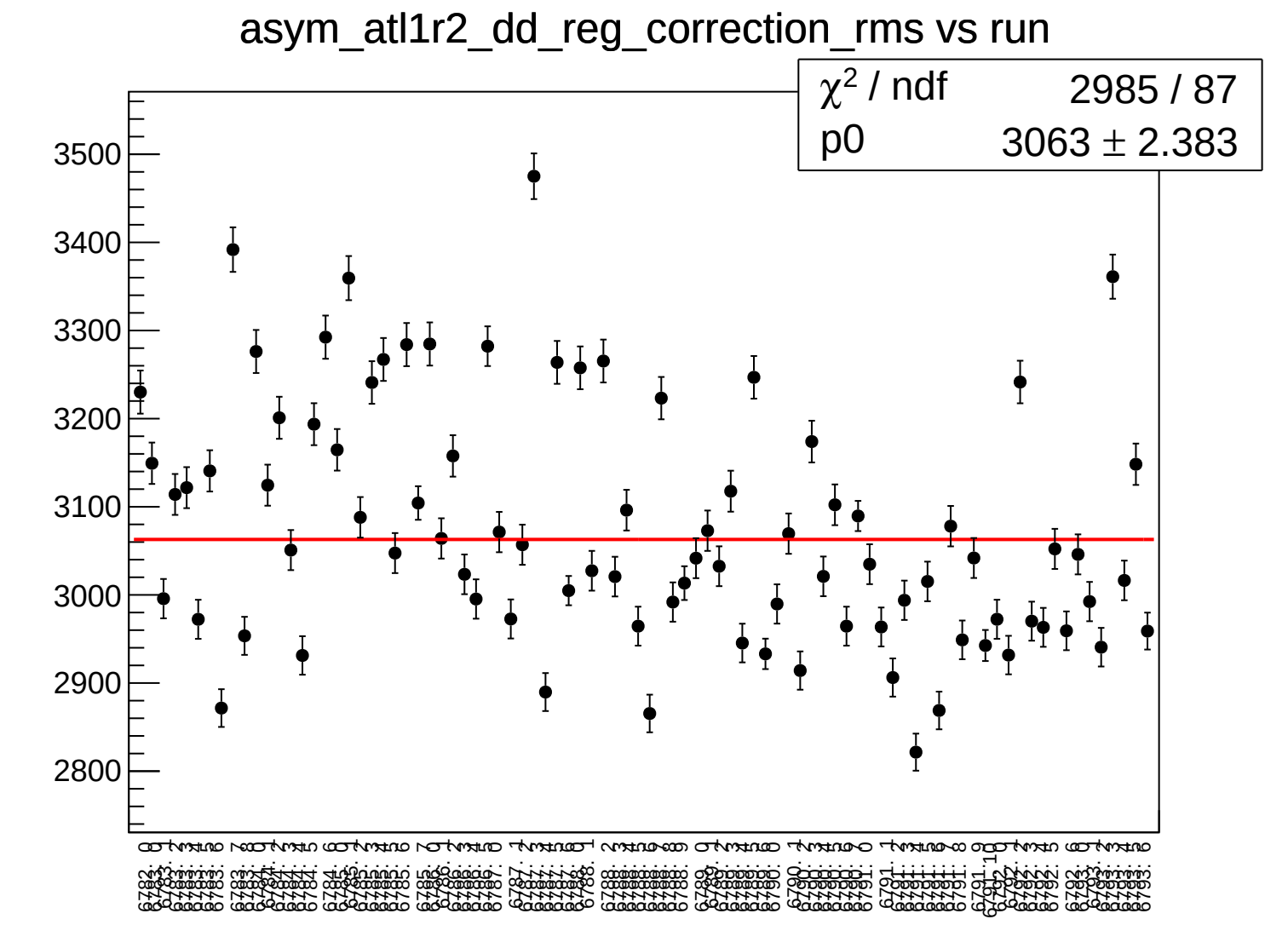

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.478e+05 / 87
p0 5.902e−11 ± 5.881e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

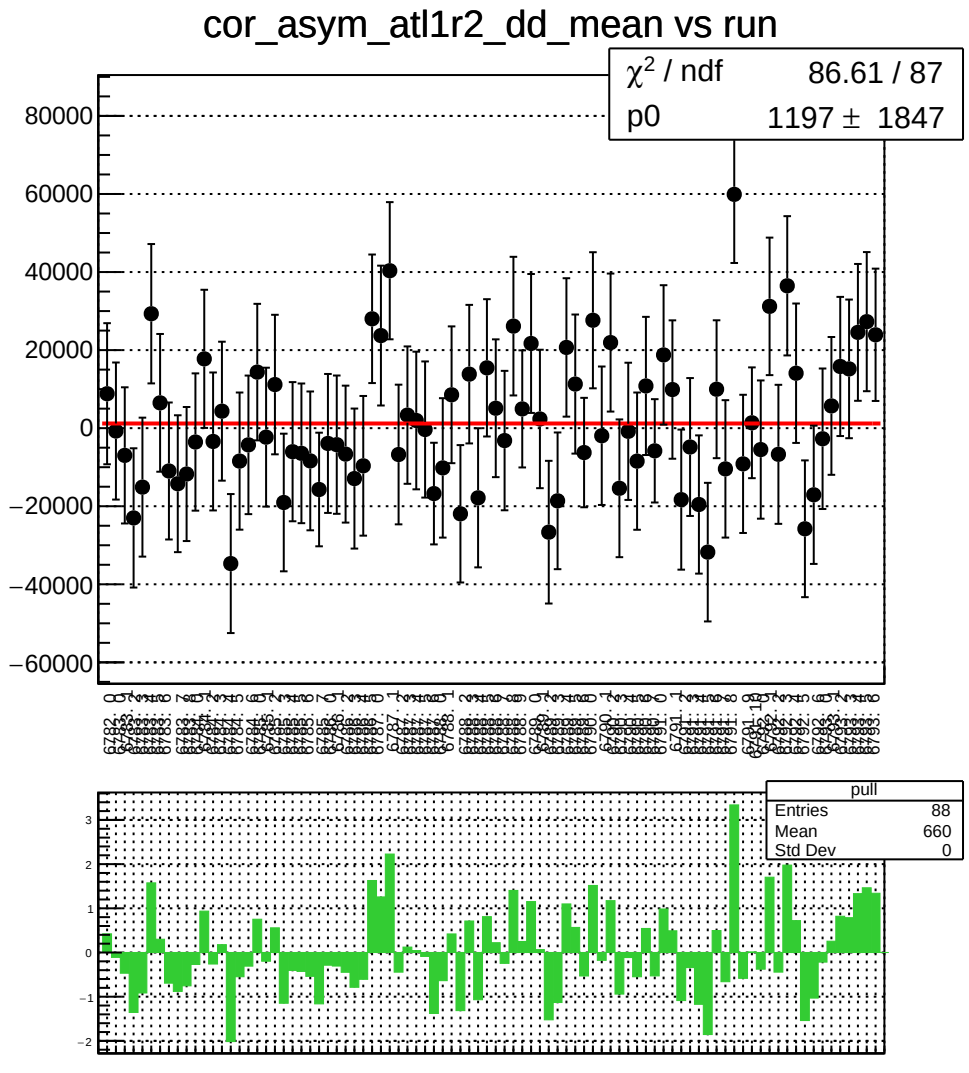

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 86.61 / 87
p0 1198 ± 1847
pull
Entries 88
Mean 659.8
Std Dev 0
pull1D
Entries 88
Mean 0.009004
Std Dev 0.992

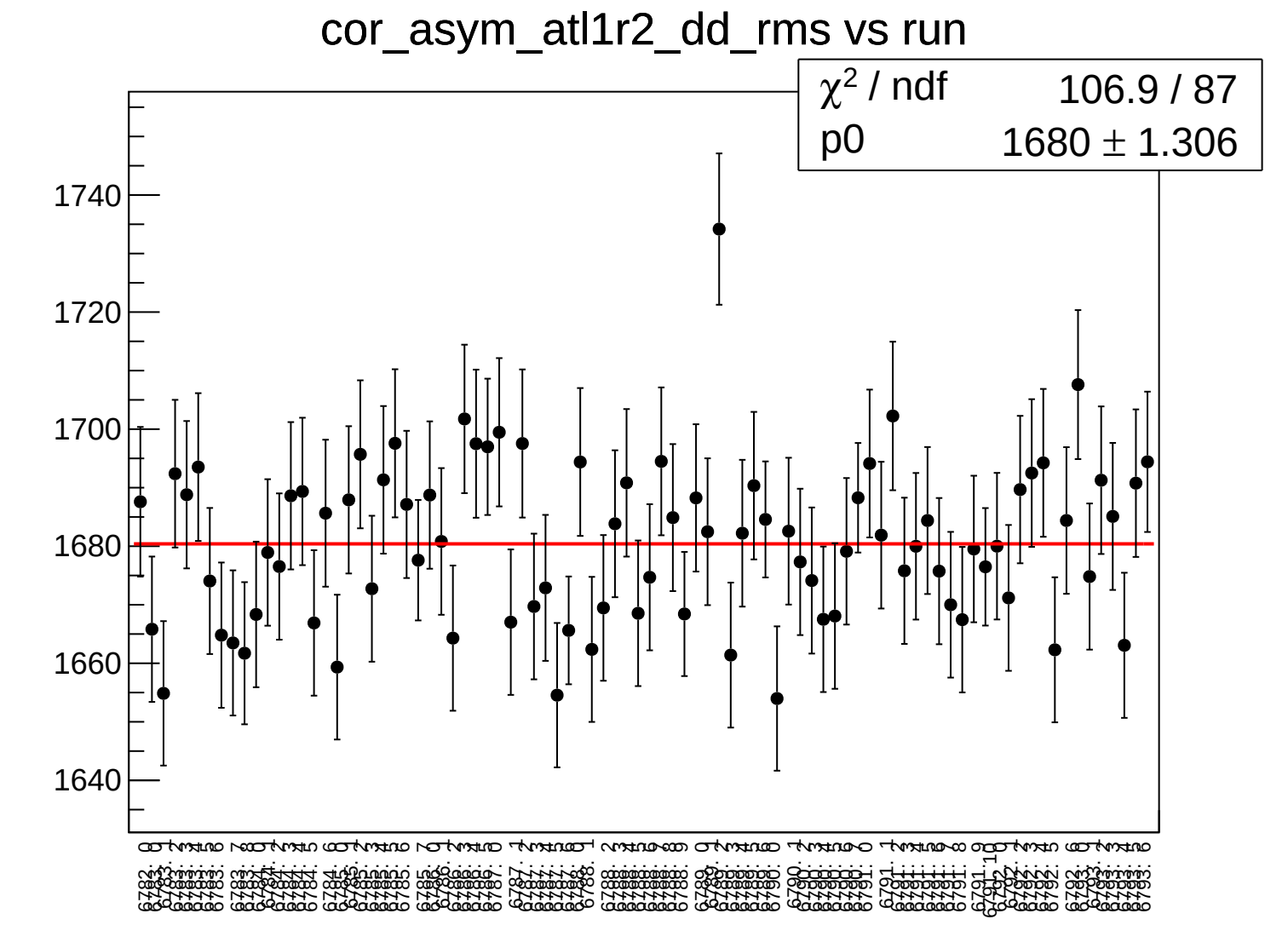

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 106.9 / 87
p0 1680 ± 1.306
1740
1720
1700
1680
1660
1640

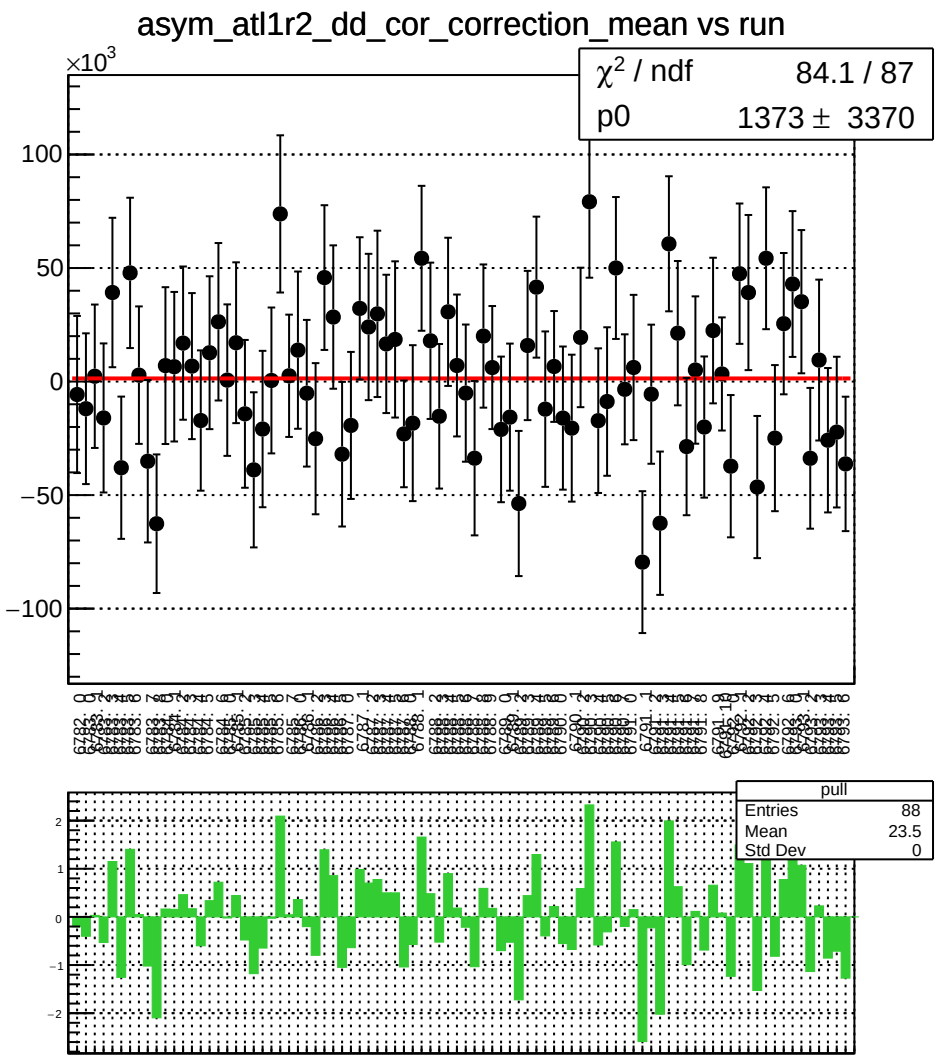

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 84.1 / 87
p0 1373 ± 3370
100
50
0
−50
−100
pull
Entries 88
Mean 23.46
Std Dev 0
2
1
0
−1
−2

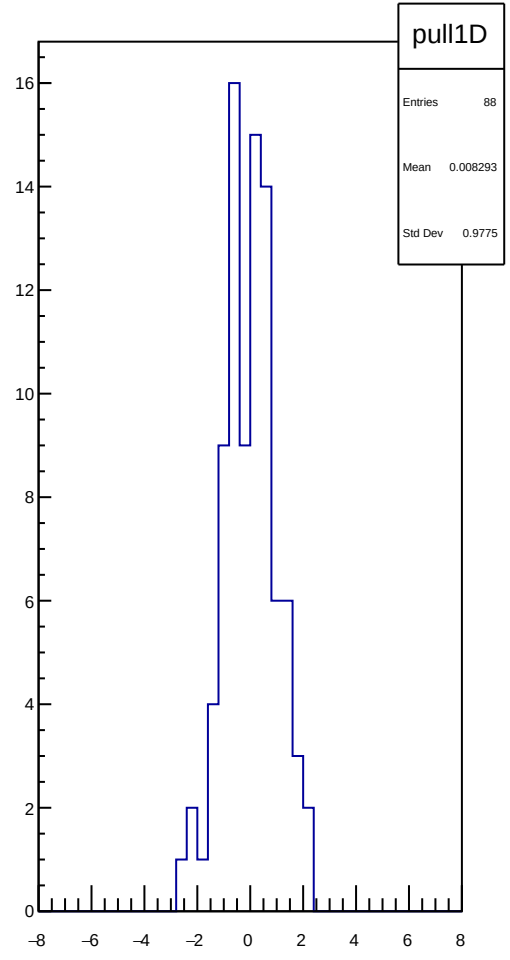

pull1D
Entries 88
Mean 0.008297
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

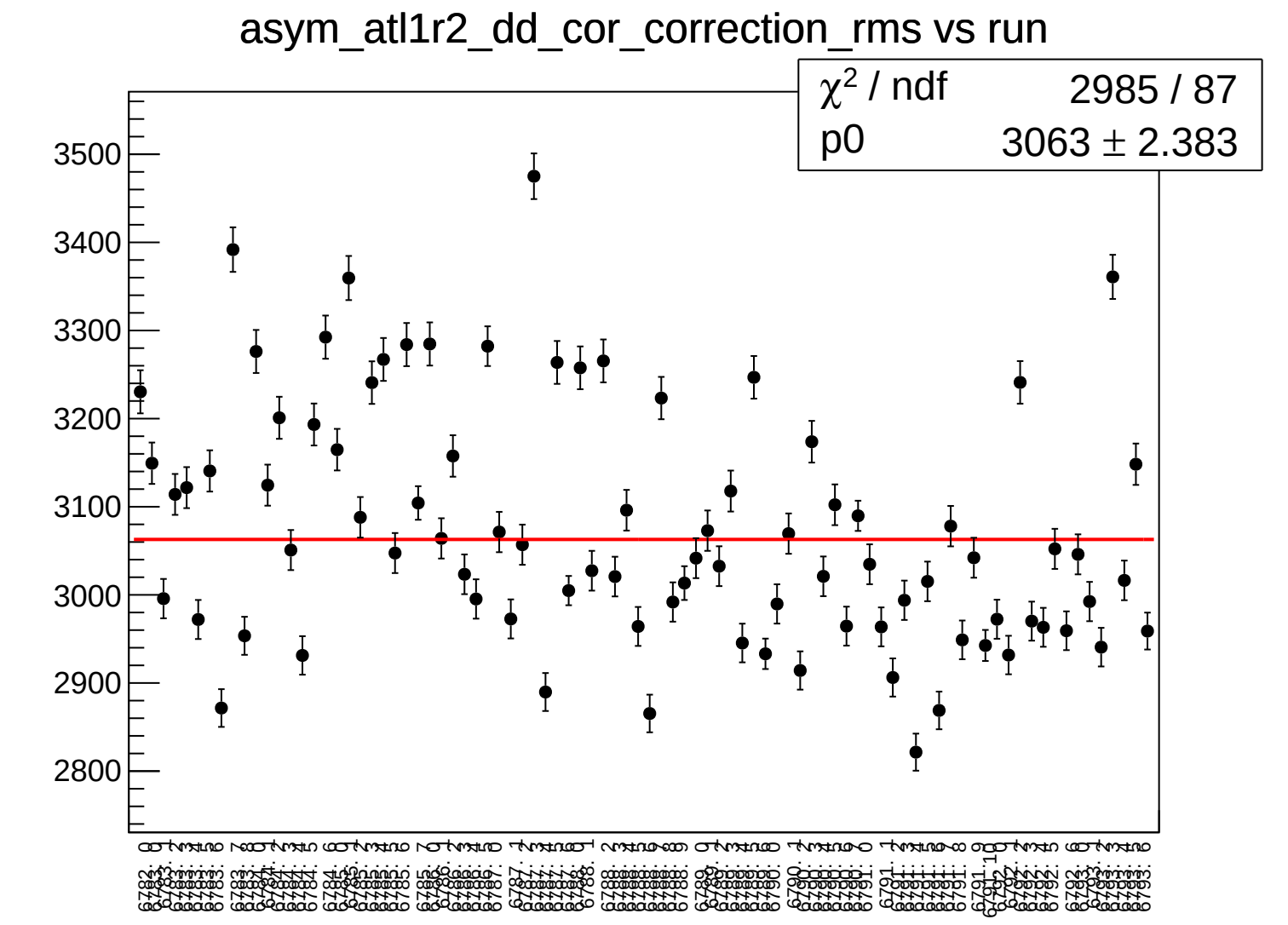

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2985 / 87
p0 3063 ± 2.383
3500
3400
3300
3200
3100
3000
2900
2800

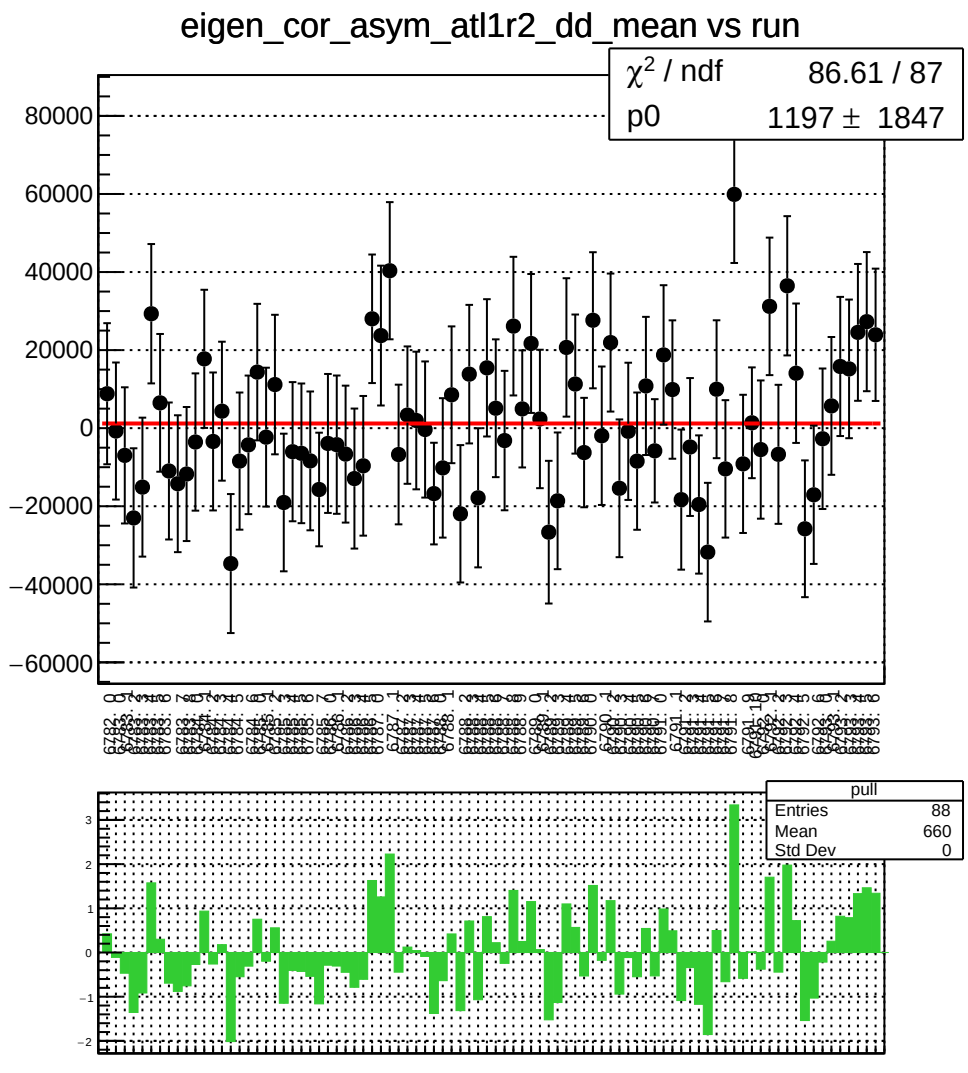

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.61 / 87
p0 1197 ± 1847
pull
Entries 88
Mean 660
Std Dev 0
pull1D
Entries 88
Mean 0.009003
Std Dev 0.992

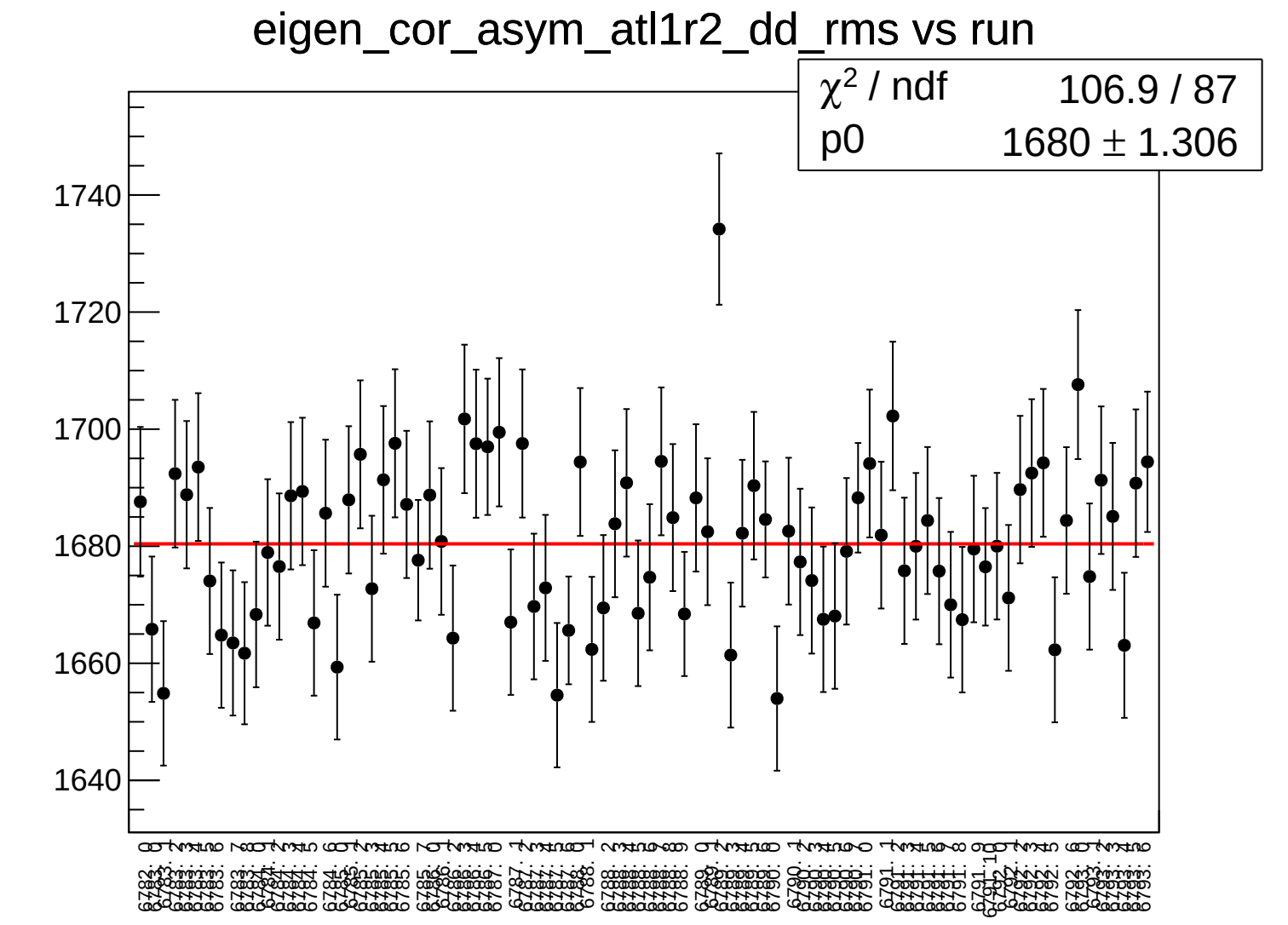

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 106.9 / 87
p0 1680 ± 1.306
1740
1720
1700
1680
1660
1640

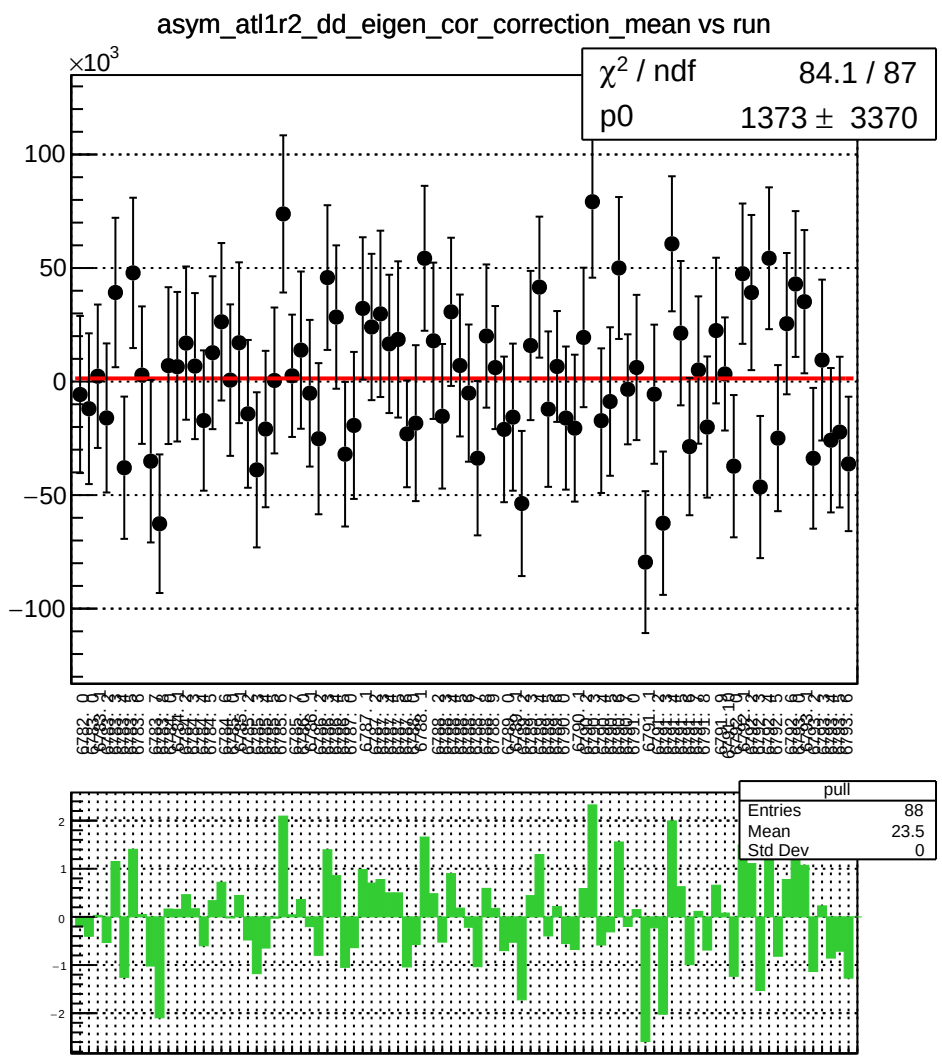

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.1 / 87
p0 1373 ± 3370
100
50
0
−50
−100
pull
Entries 88
Mean 23.5
Std Dev 0
2
1
0
−1
−2

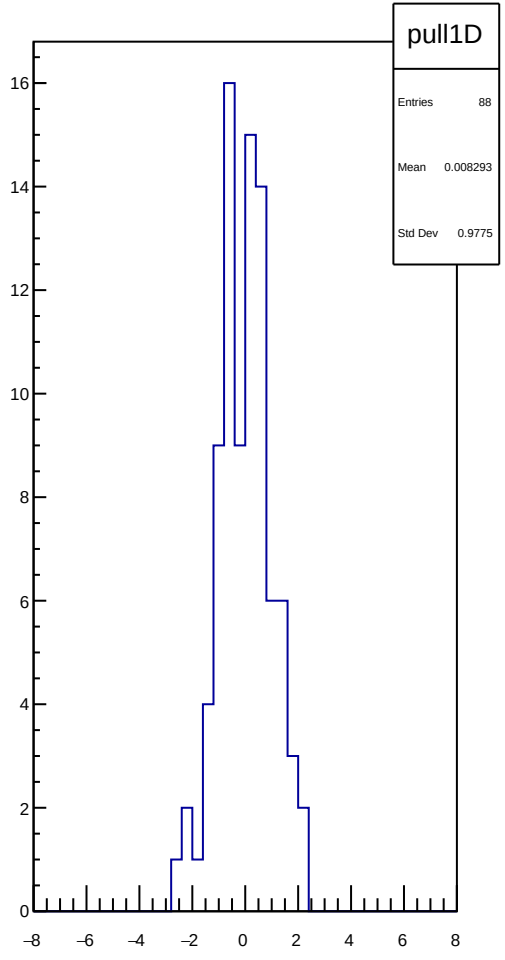

pull1D
Entries 88
Mean 0.008293
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

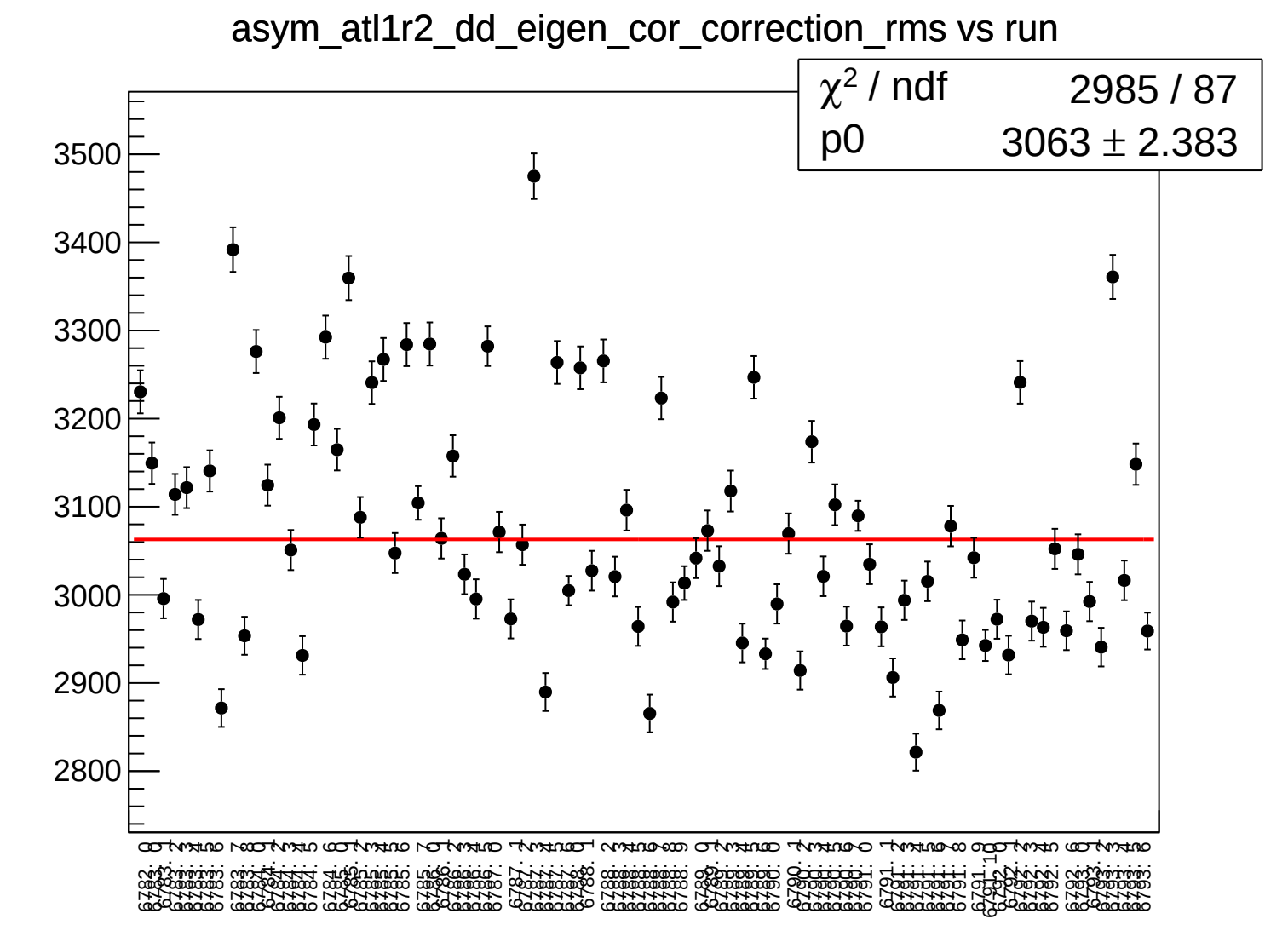

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2985 / 87
p0 3063 ± 2.383
3500
3400
3300
3200
3100
3000
2900
2800

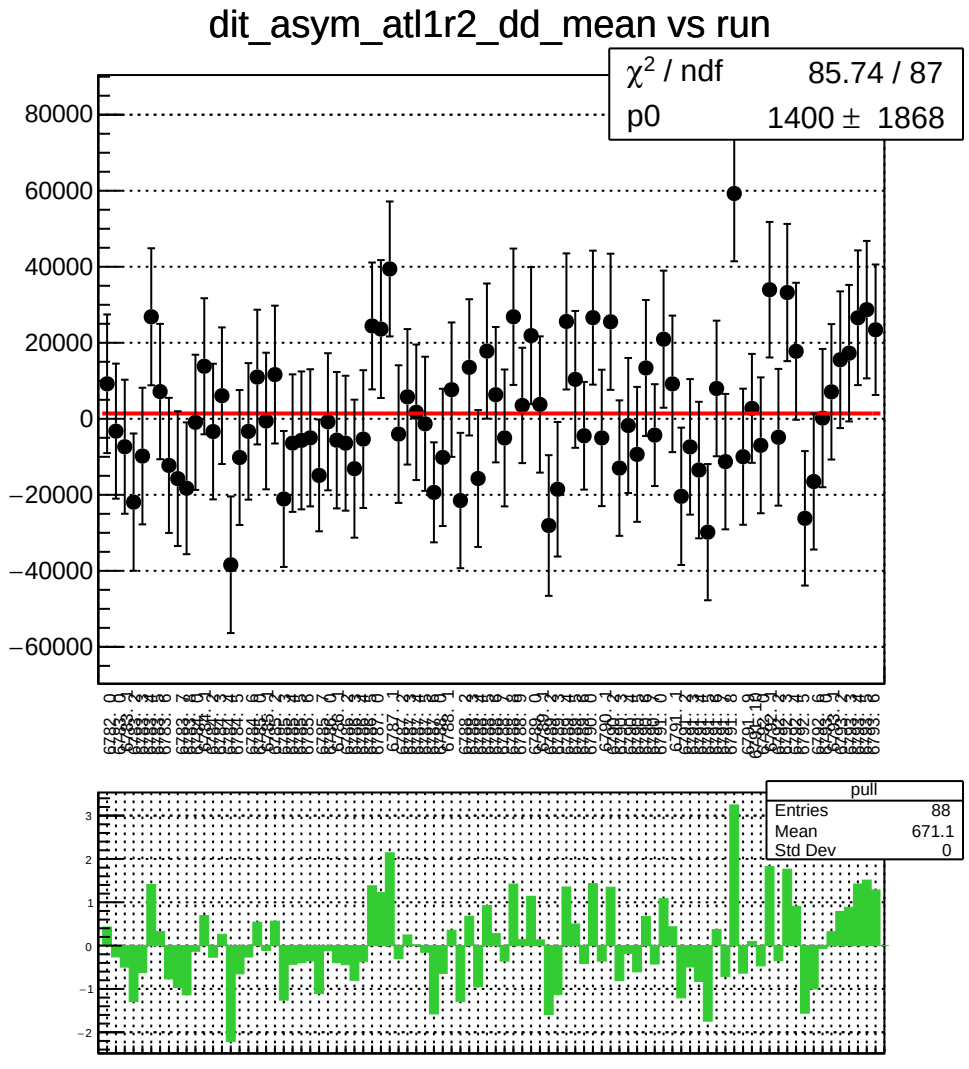

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.61 / 87
p0 1197 ± 1847
pull
Entries 88
Mean 660
Std Dev 0
pull1D
Entries 88
Mean 0.009003
Std Dev 0.992

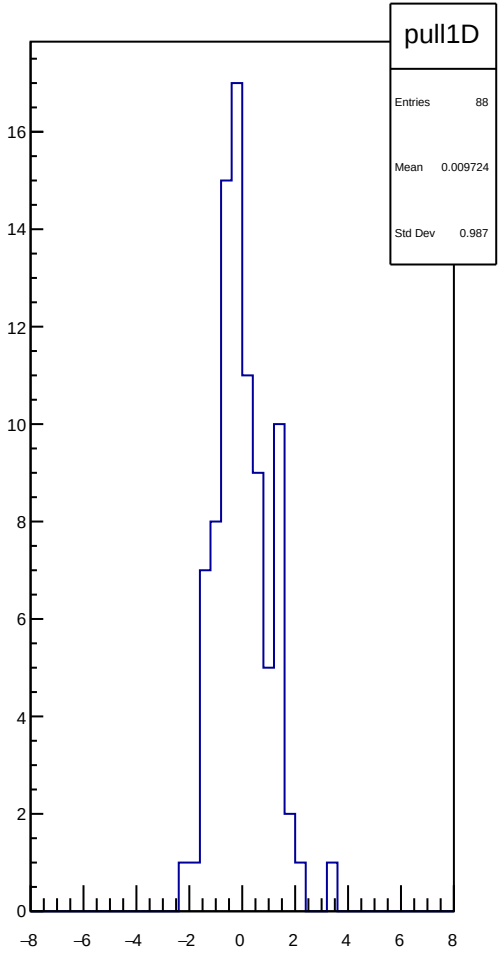

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 106.9 / 87
p0 1680 ± 1.306
1740
1720
1700
1680
1660
1640

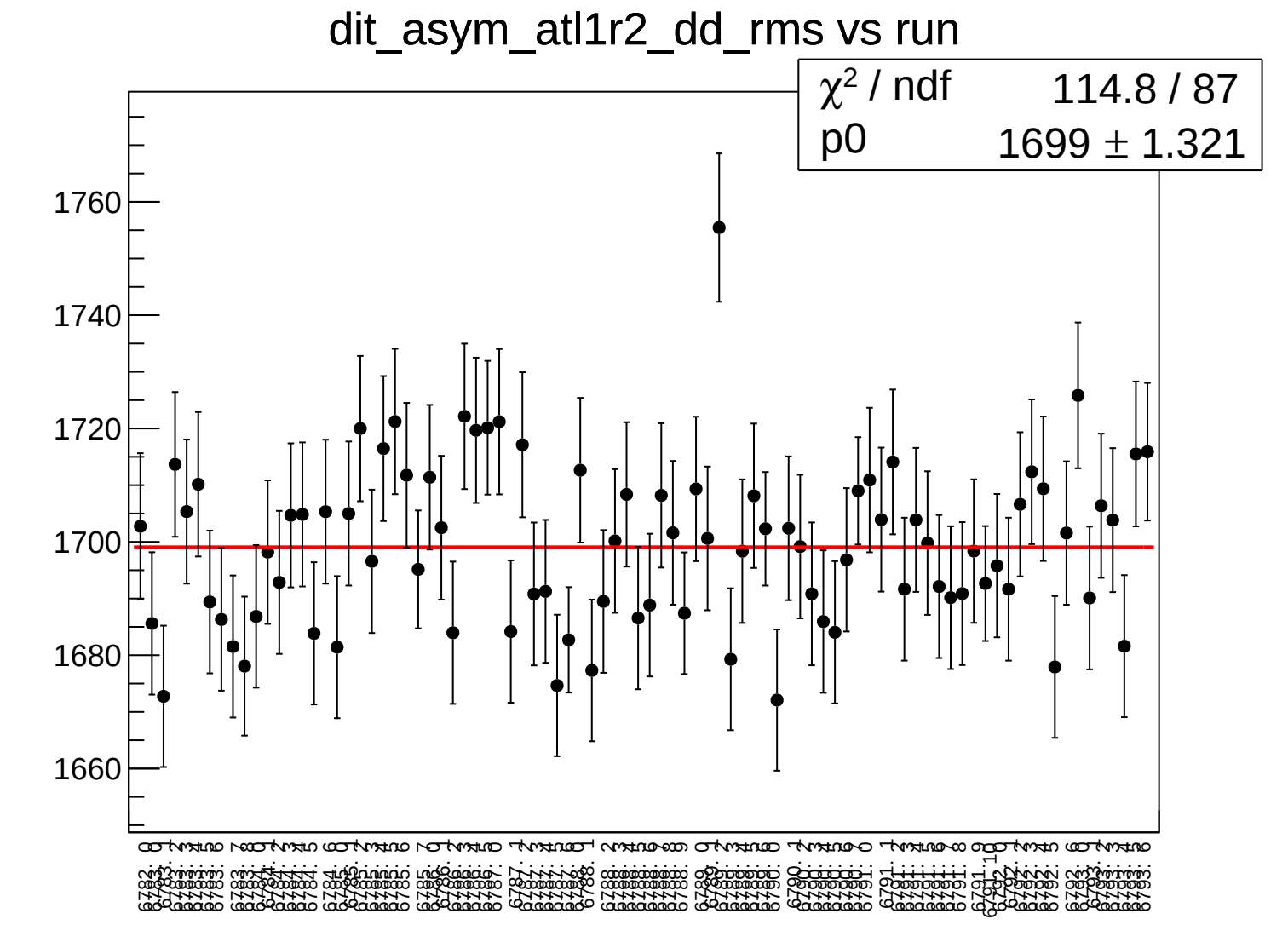

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.1 / 87
p0 1373 ± 3370
100
50
0
−50
−100
pull
Entries 88
Mean 23.5
Std Dev 0
2
1
0
−1
−2

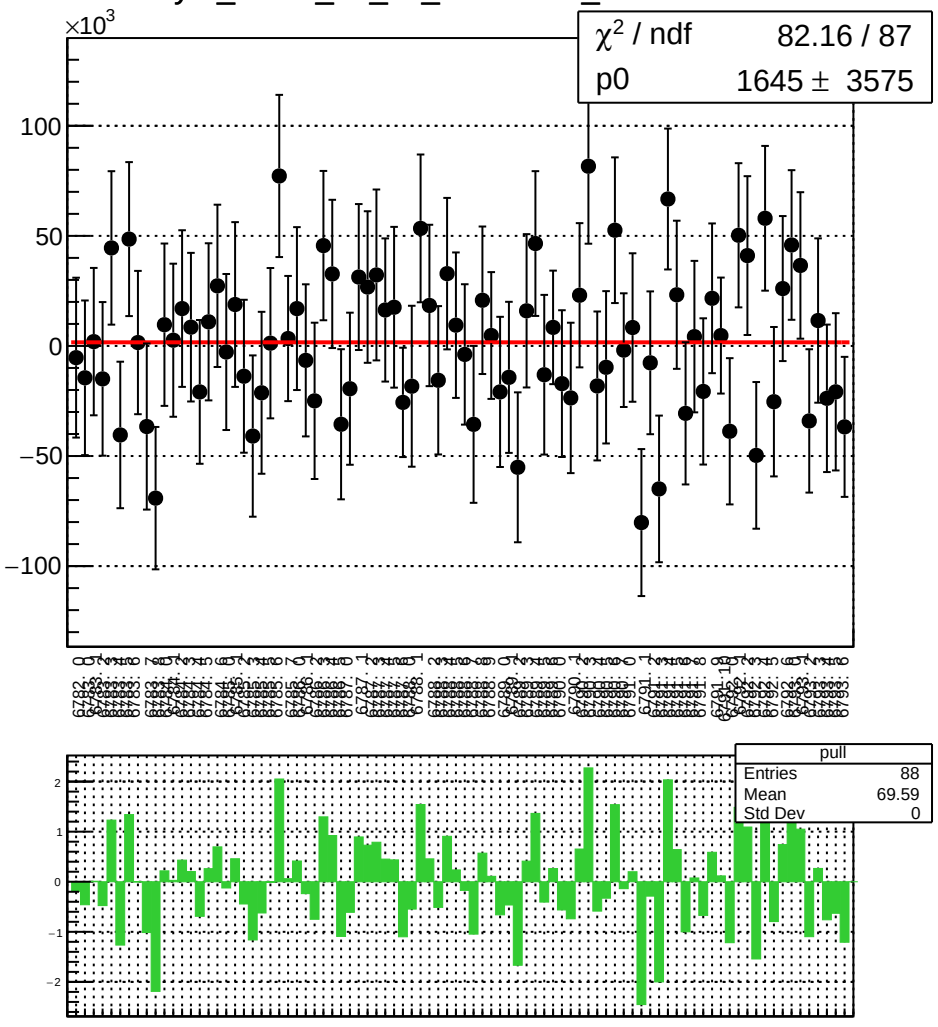

pull1D
Entries 88
Mean 0.008293
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

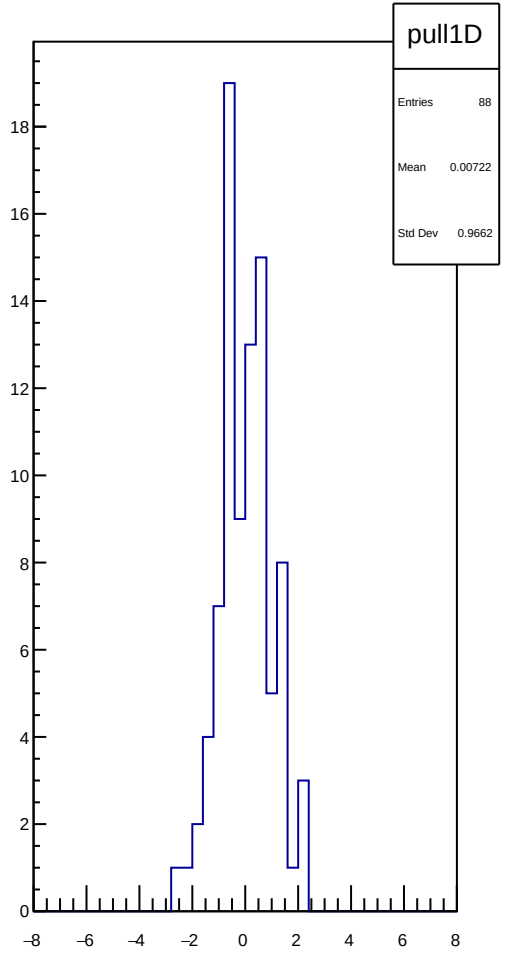

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2985 / 87
p0 3063 ± 2.383
3500
3400
3300
3200
3100
3000
2900
2800

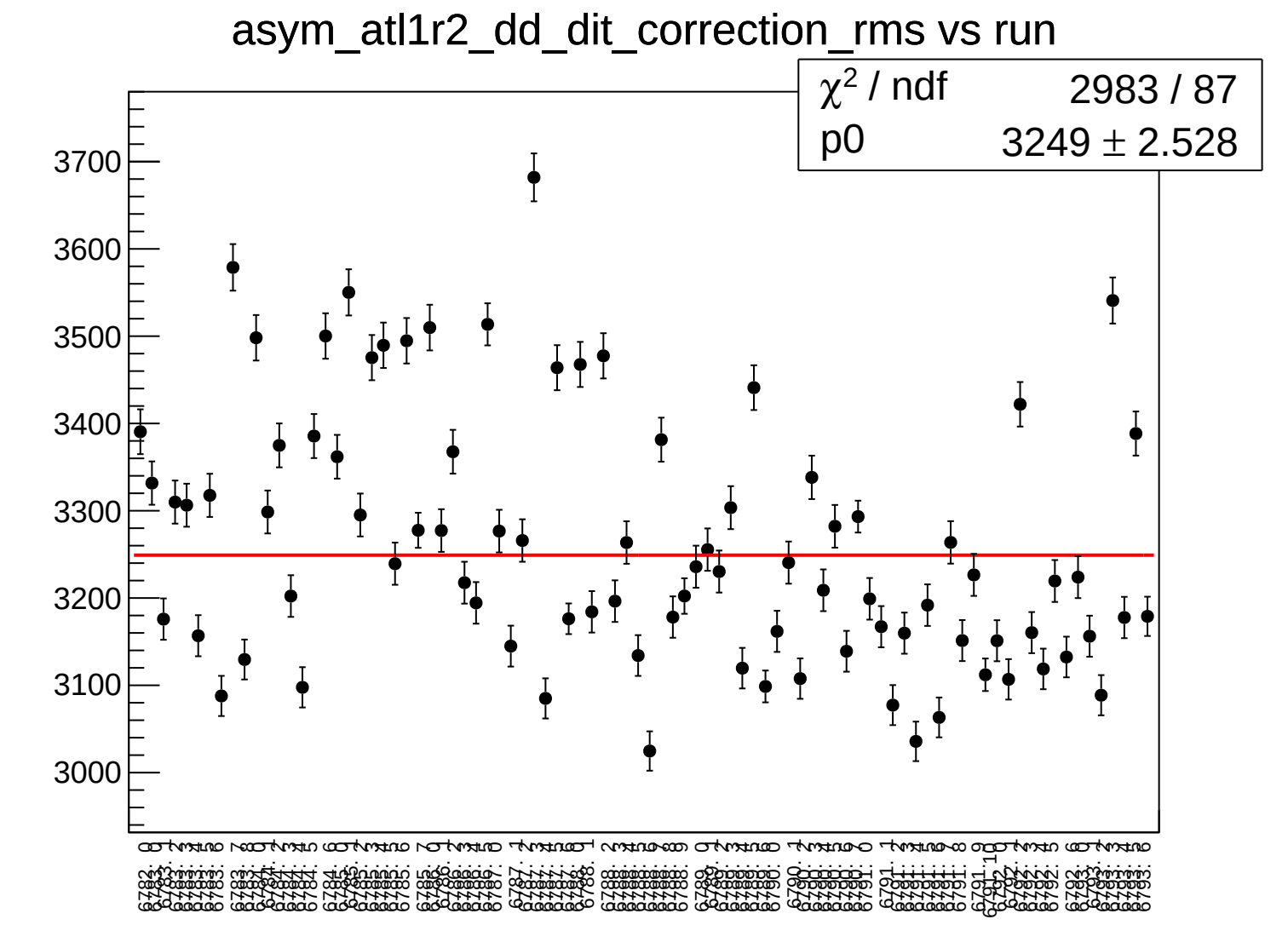

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 85.74 / 87
p0 1400 ± 1868
pull
Entries 88
Mean 671.1
Std Dev 0

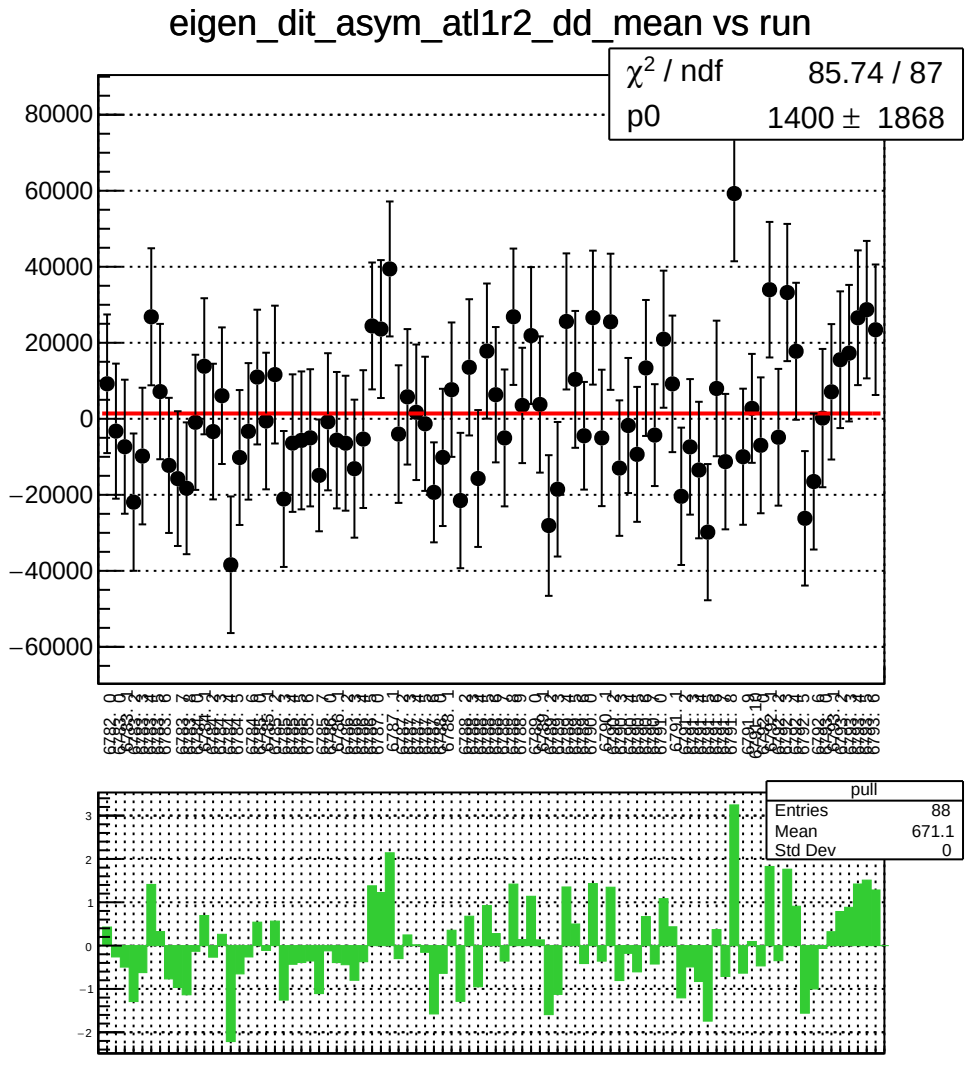

pull1D
Entries 88
Mean 0.009724
Std Dev 0.987

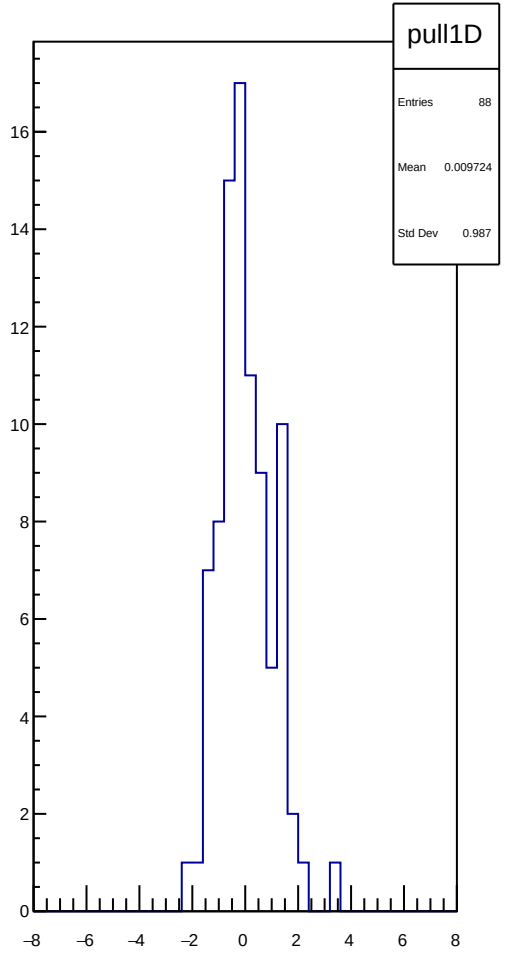

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 114.8 / 87
p0 1699 ± 1.321
1760
1740
1720
1700
1680
1660

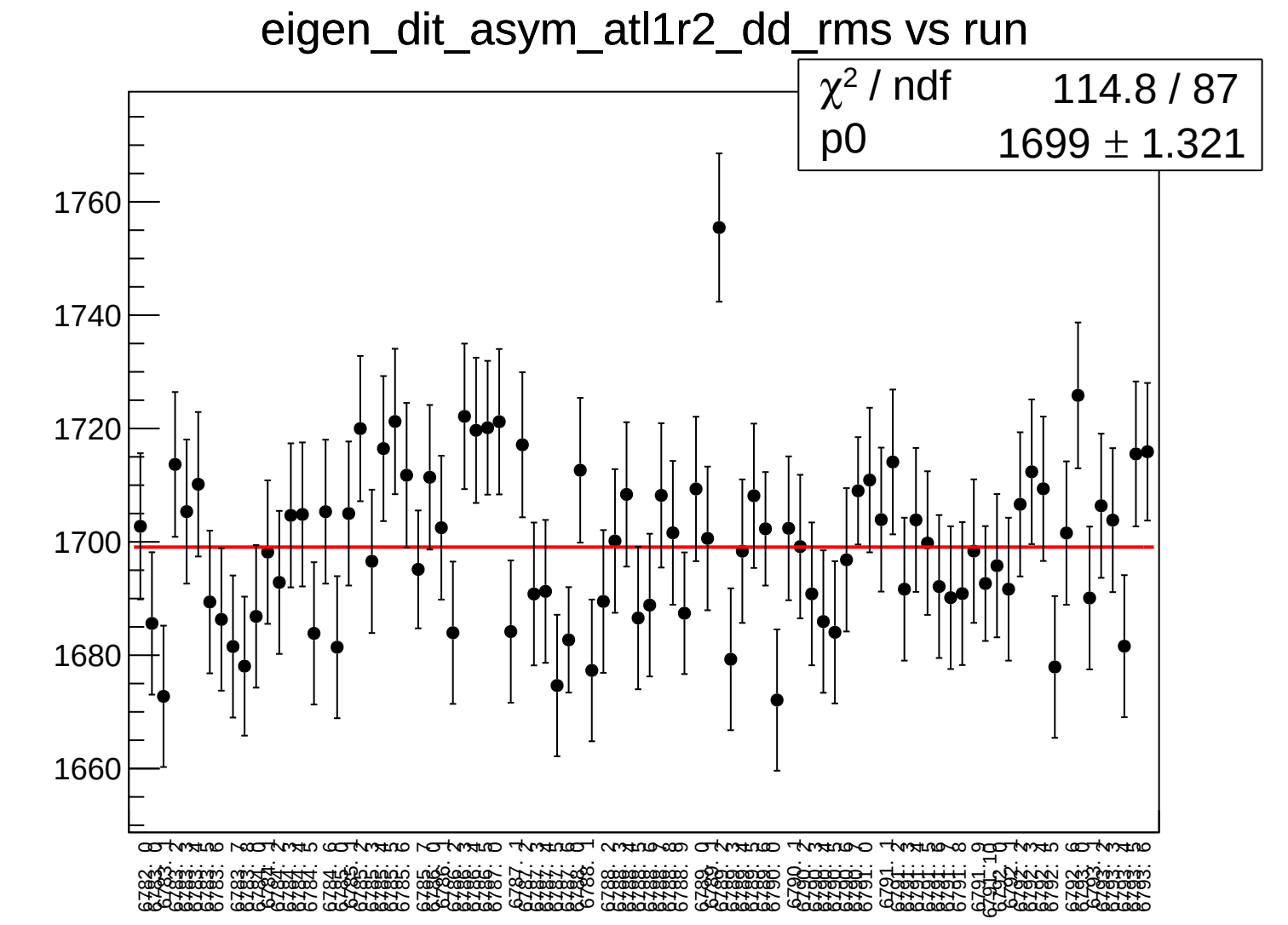

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.16 / 87
p0 1645 ± 3575
100
50
0
−50
−100
pull
Entries 88
Mean 69.59
Std Dev 0
2
1
0
−1
−2

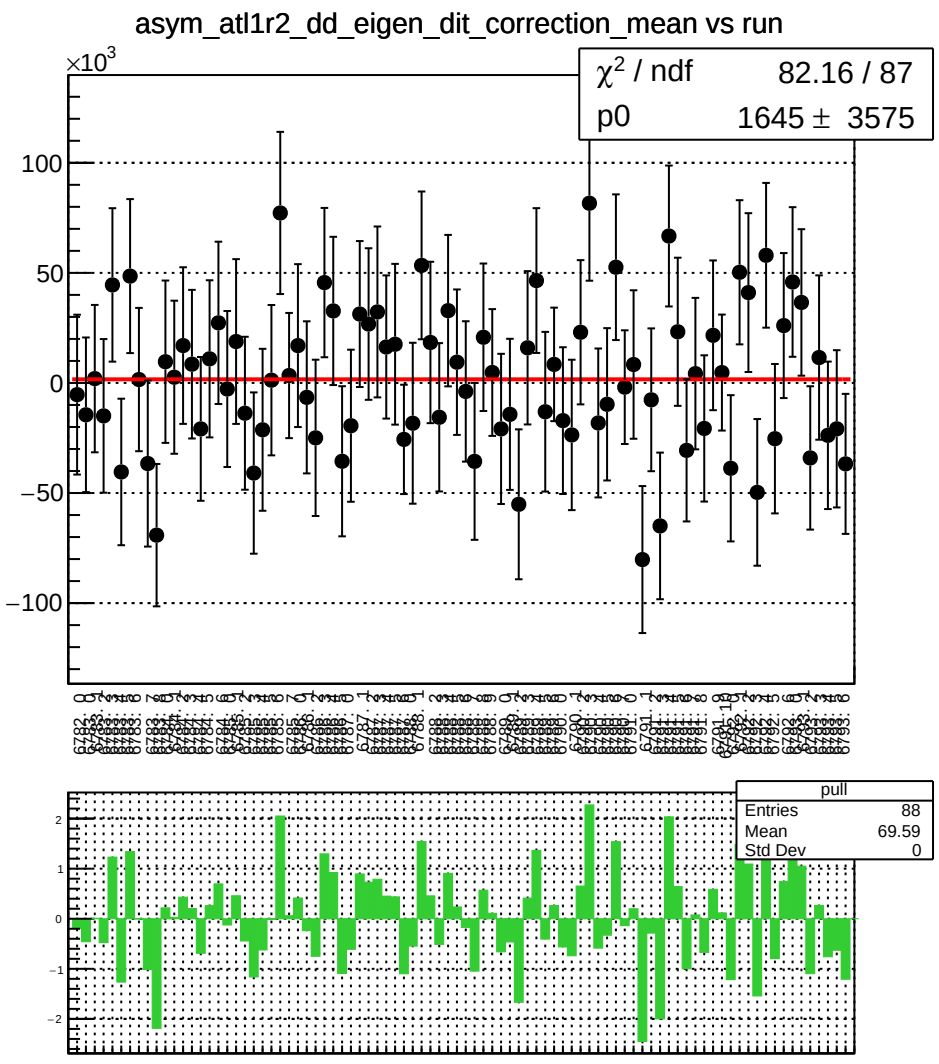

pull1D
Entries 88
Mean 0.00722
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

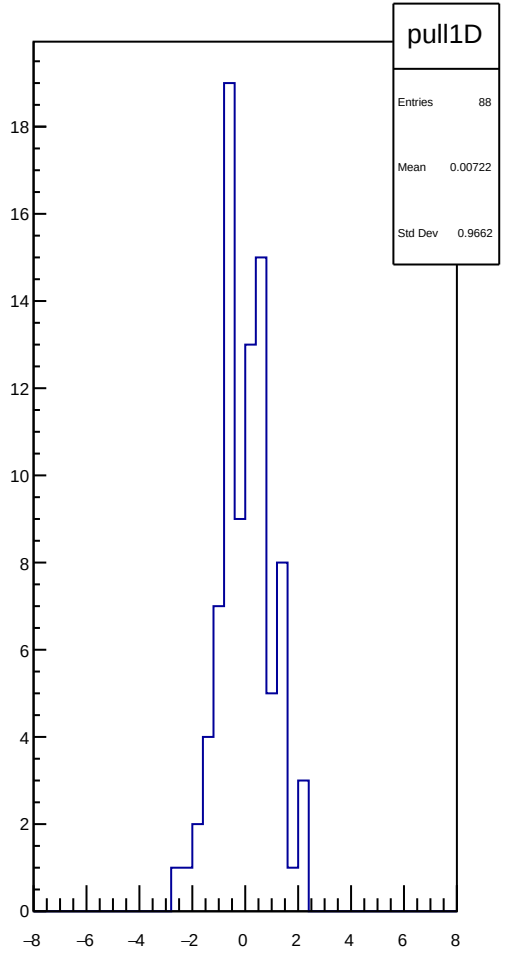

asym_atl1r2_dd_dit_correction_rms vs run
χ^2 / ndf 2983 / 87
p0 3249 ± 2.528
3700
3600
3500
3400
3300
3200
3100
3000

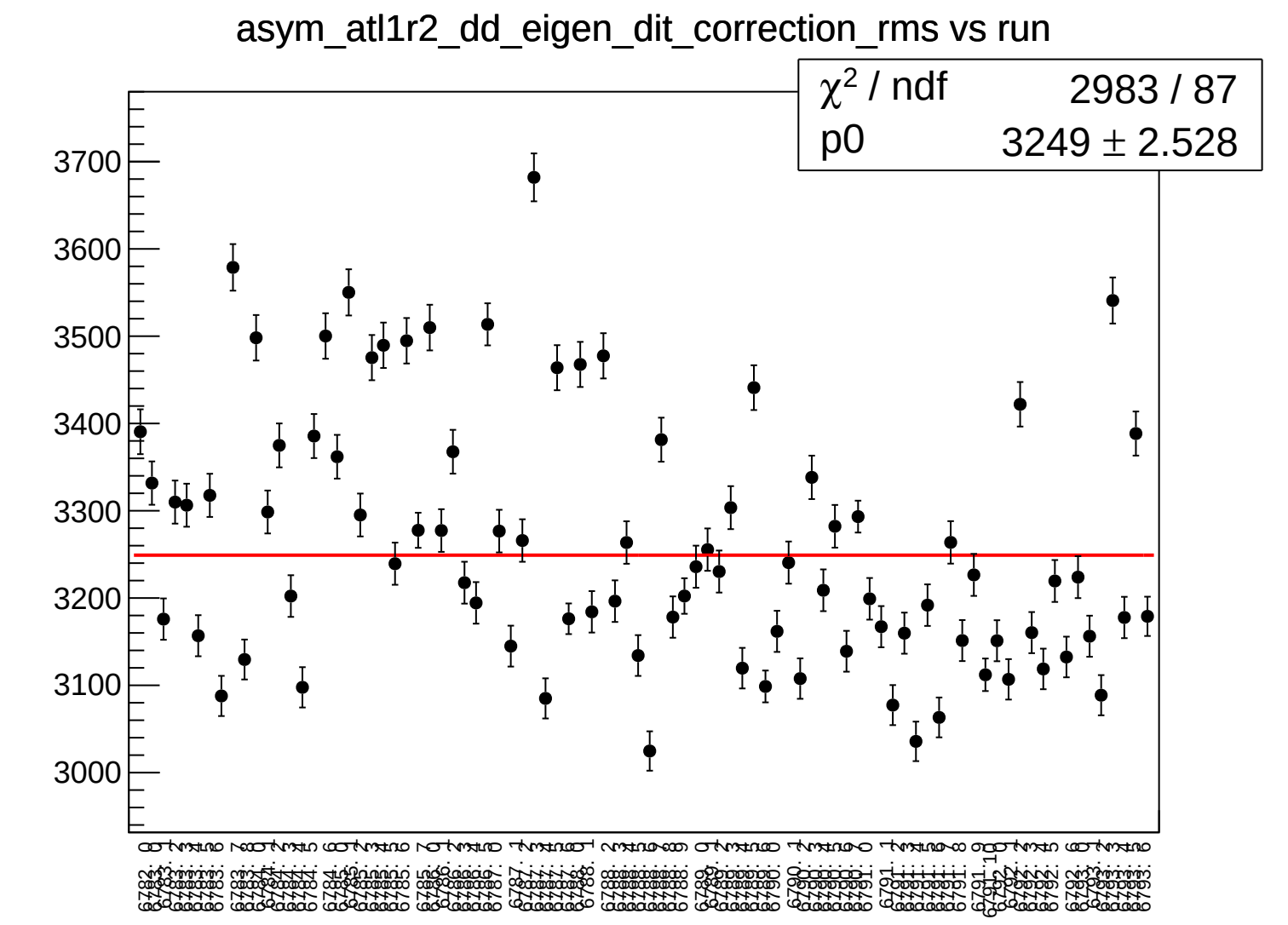

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 85.74 / 87
p0 1400 ± 1868
pull
Entries 88
Mean 671.1
Std Dev 0

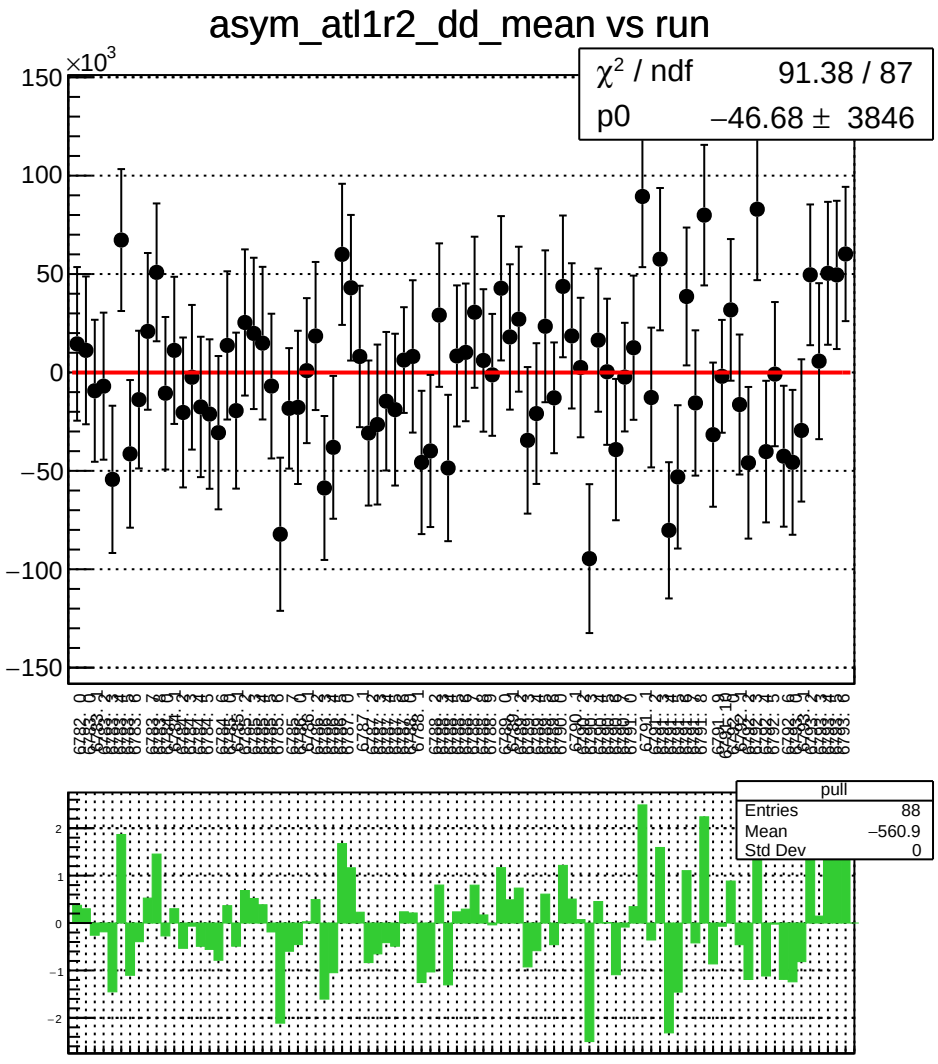

pull1D
Entries 88
Mean 0.009724
Std Dev 0.987

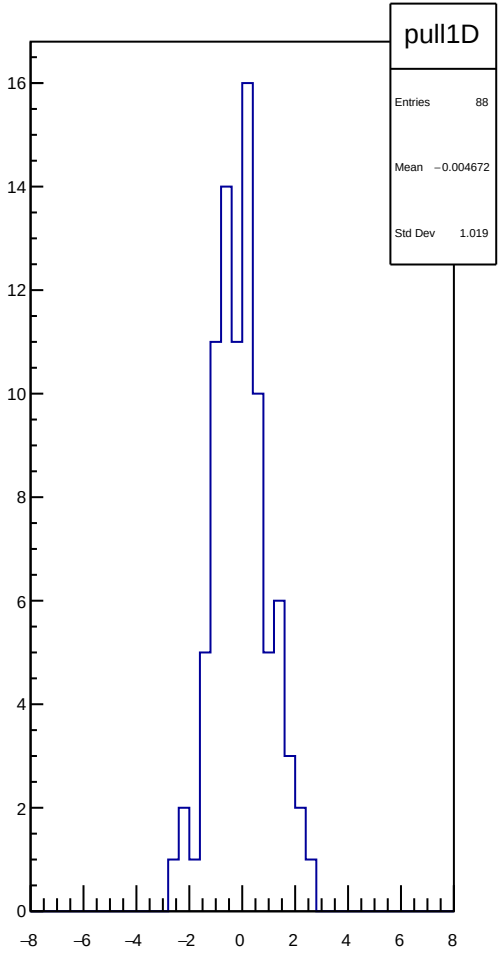

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 114.8 / 87
p0 1699 ± 1.321
1760
1740
1720
1700
1680
1660

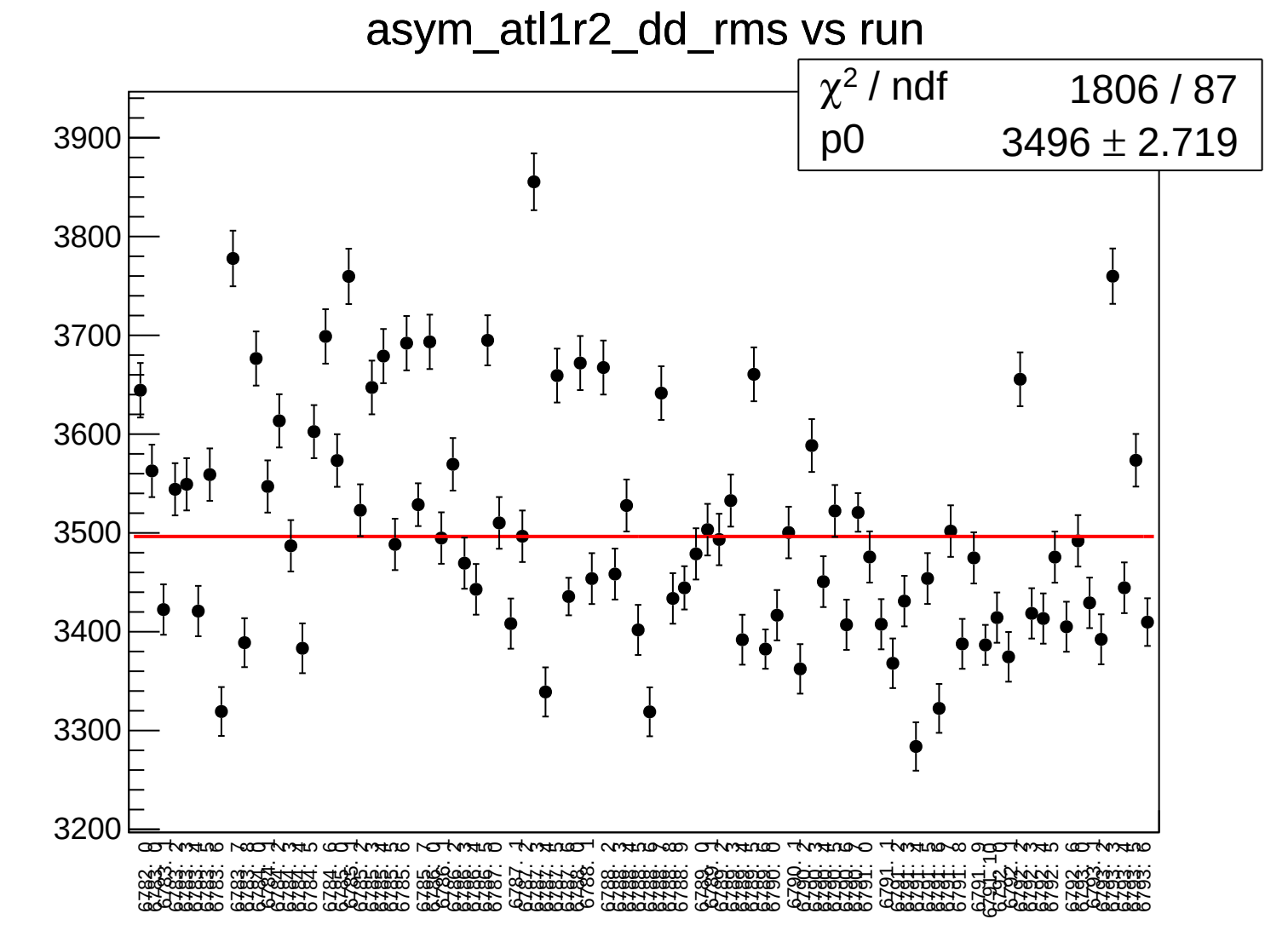

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.16 / 87
p0 1645 ± 3575
100
50
0
−50
−100
pull
Entries 88
Mean 69.59
Std Dev 0
2
1
0
−1
−2

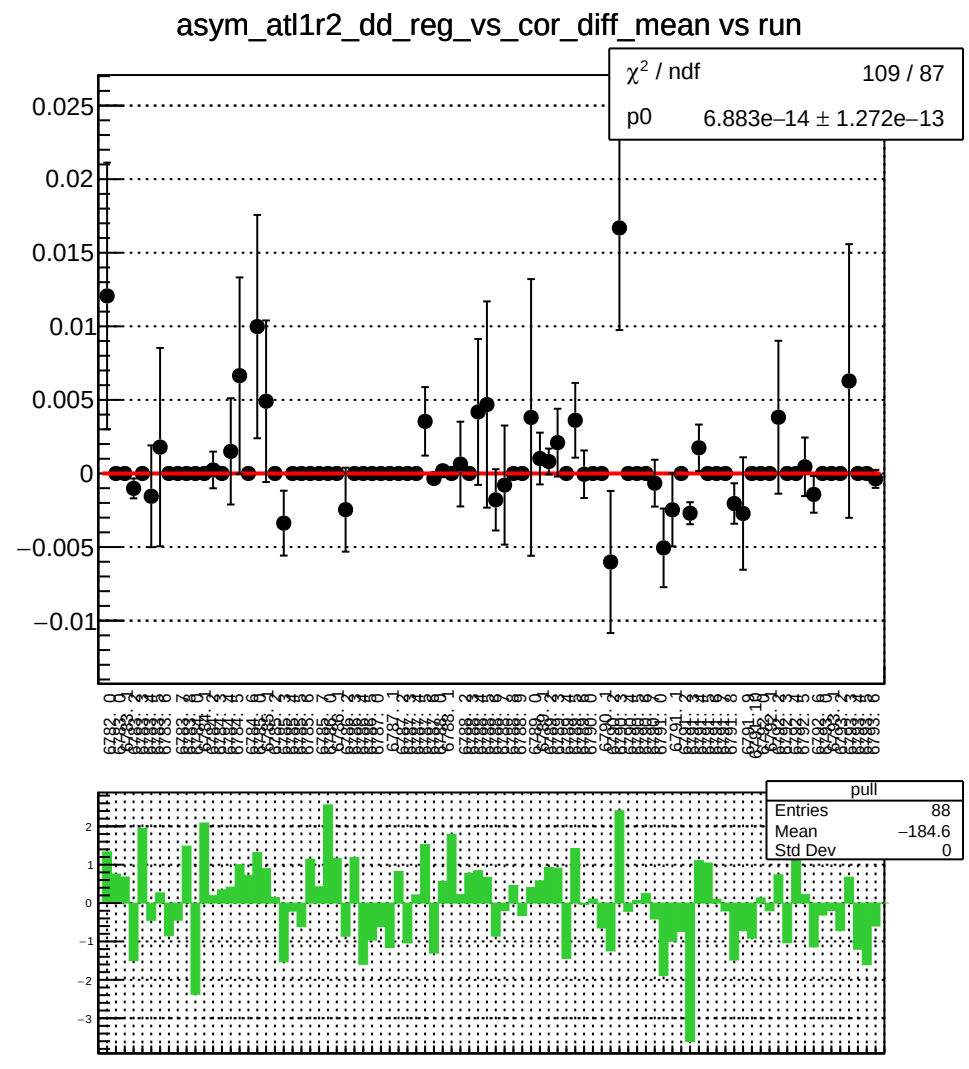

pull1D
Entries 88
Mean 0.00722
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

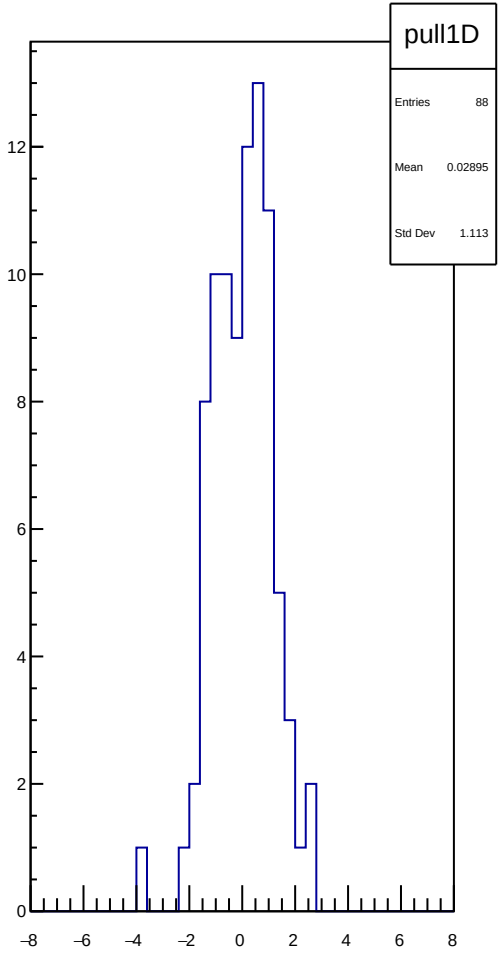

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2983 / 87
p0 3249 ± 2.528
3700
3600
3500
3400
3300
3200
3100
3000

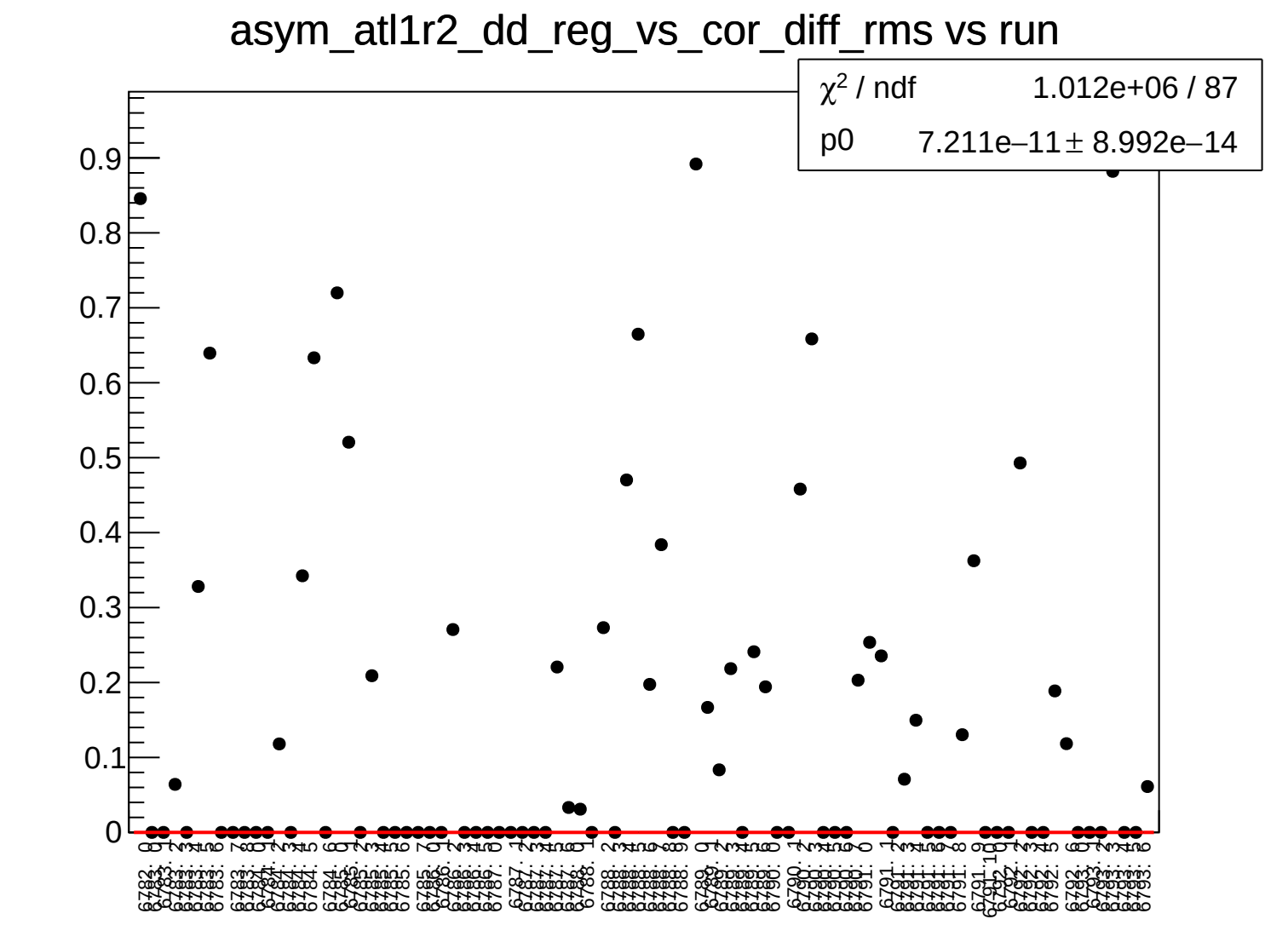

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 91.38 / 87
p0 −46.68 ± 3846
pull
Entries 88
Mean −560.9
Std Dev 0

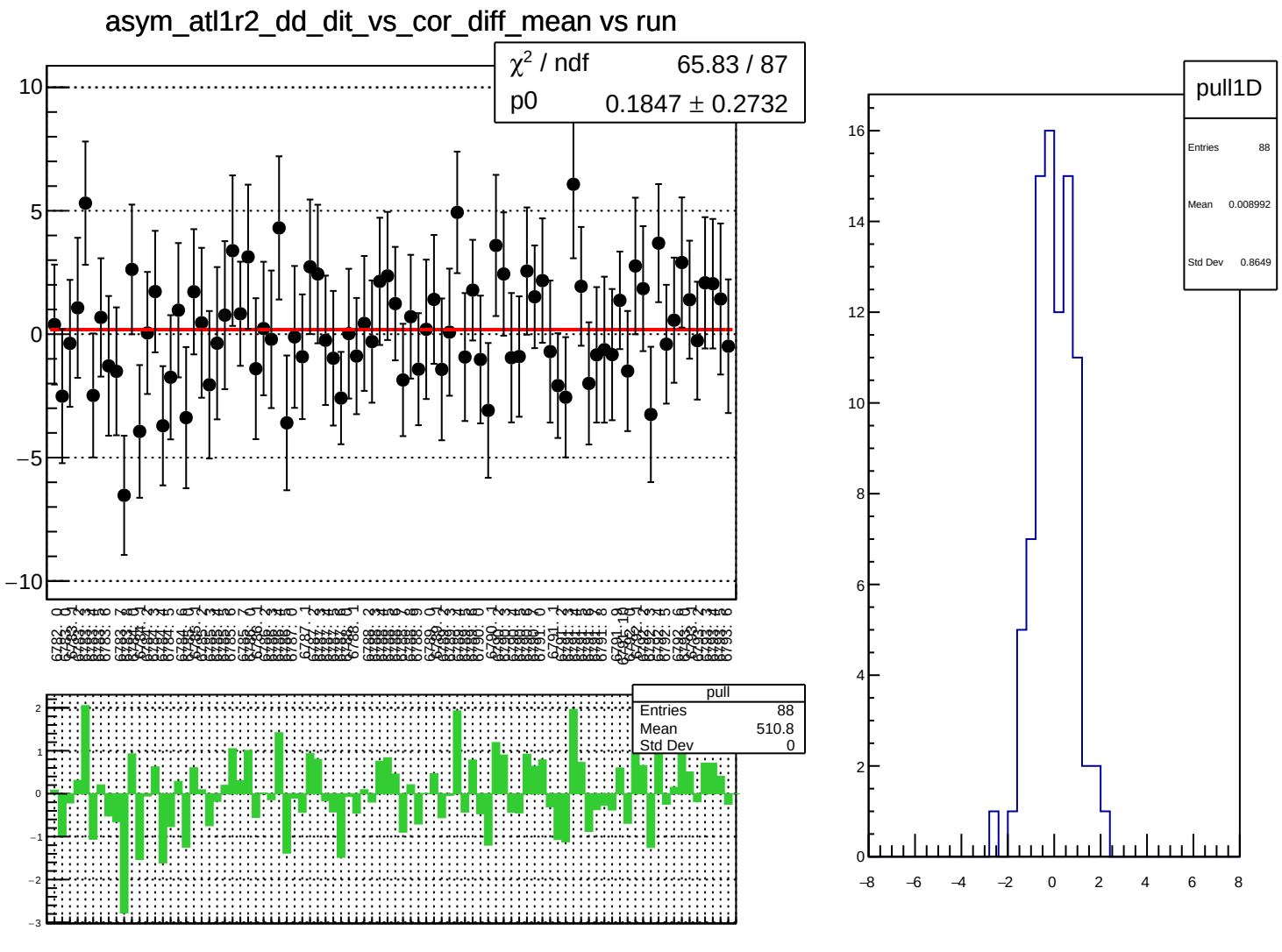

pull1D
Entries 88
Mean −0.004672
Std Dev 1.019

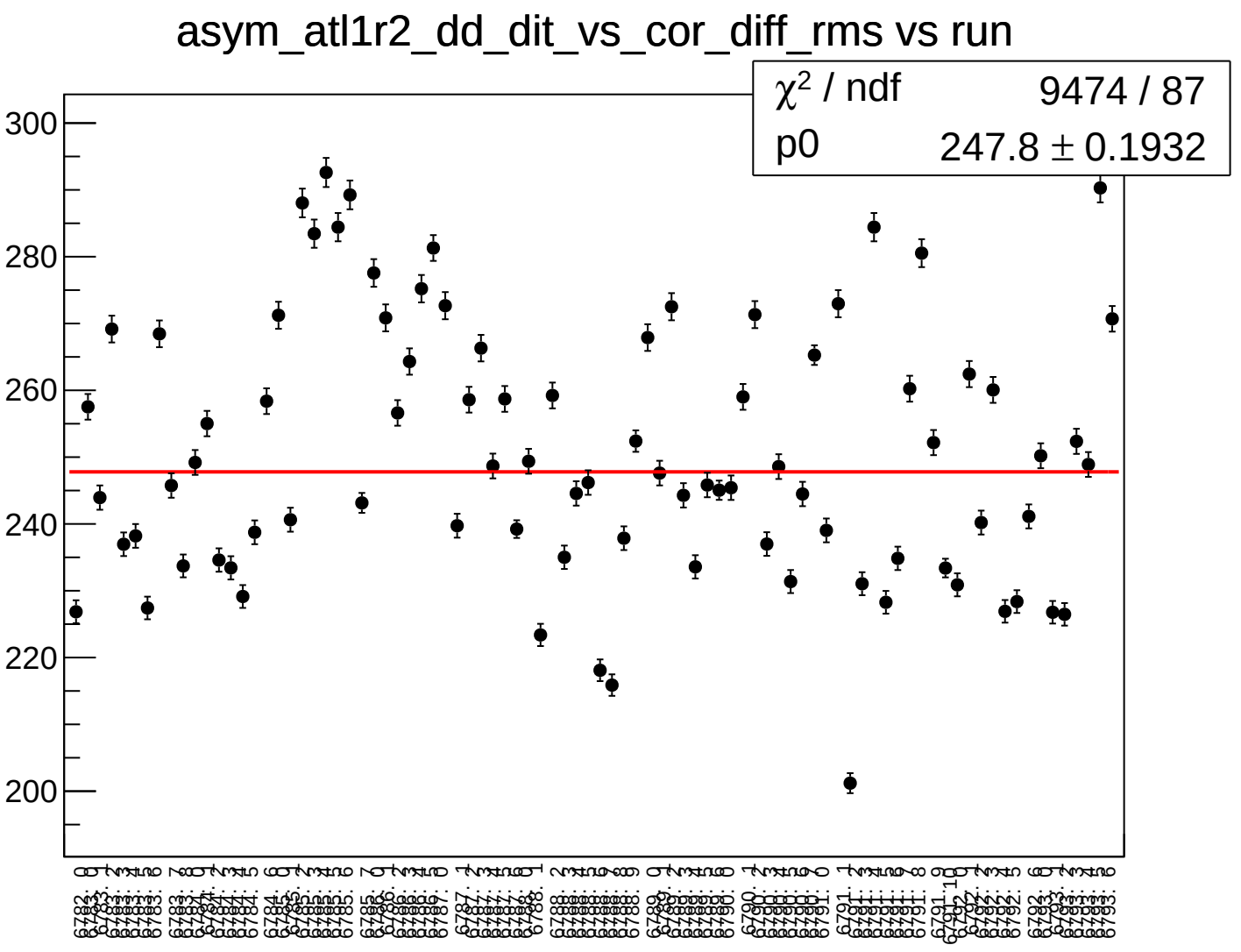

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1806 / 87
p0 3496 ± 2.719
3900
3800
3700
3600
3500
3400
3300
3200

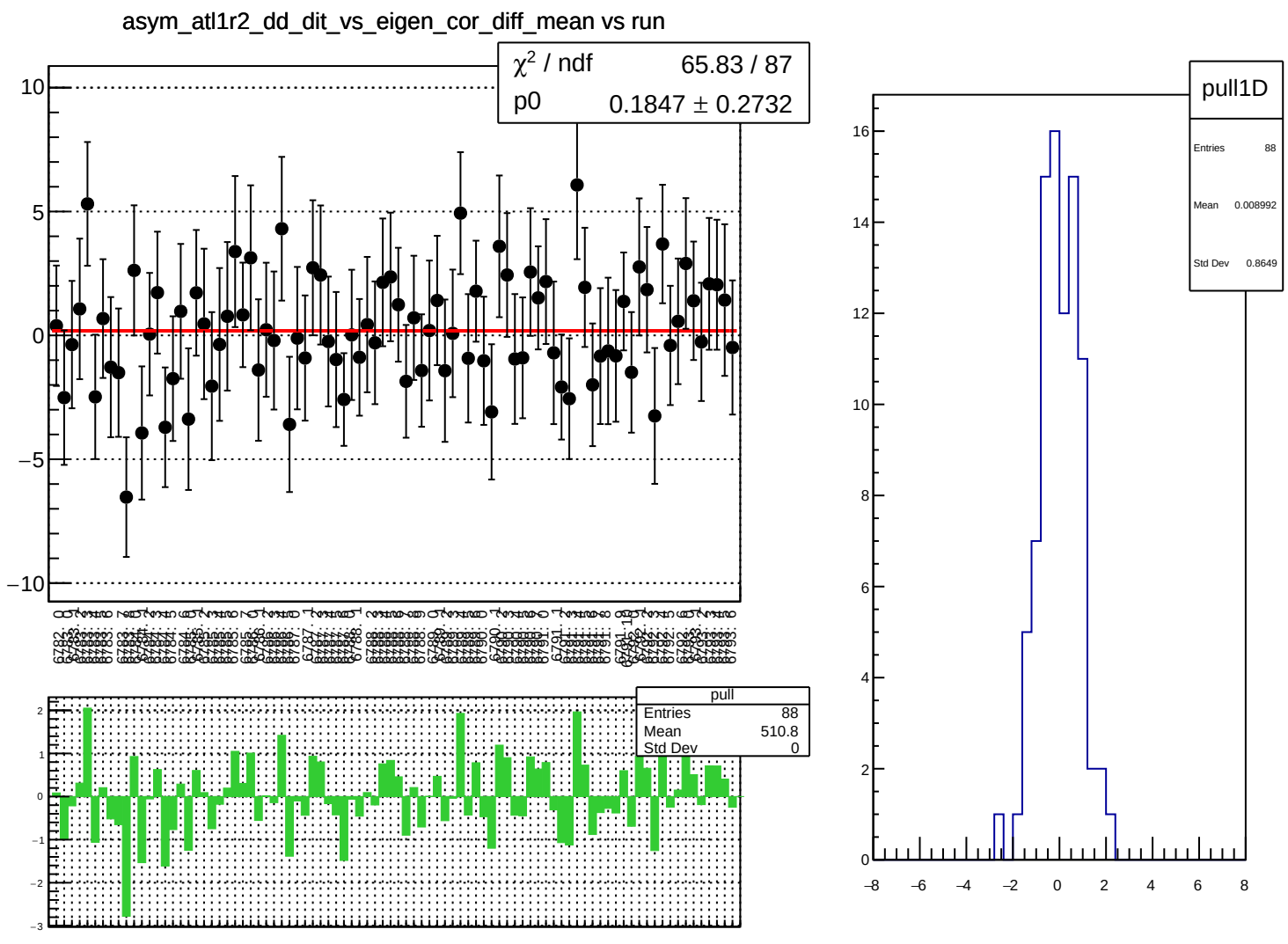

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 87
p0 6.883e−14 ± 1.272e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean −184.6
Std Dev 0
2
1
0
−1
−2
−3

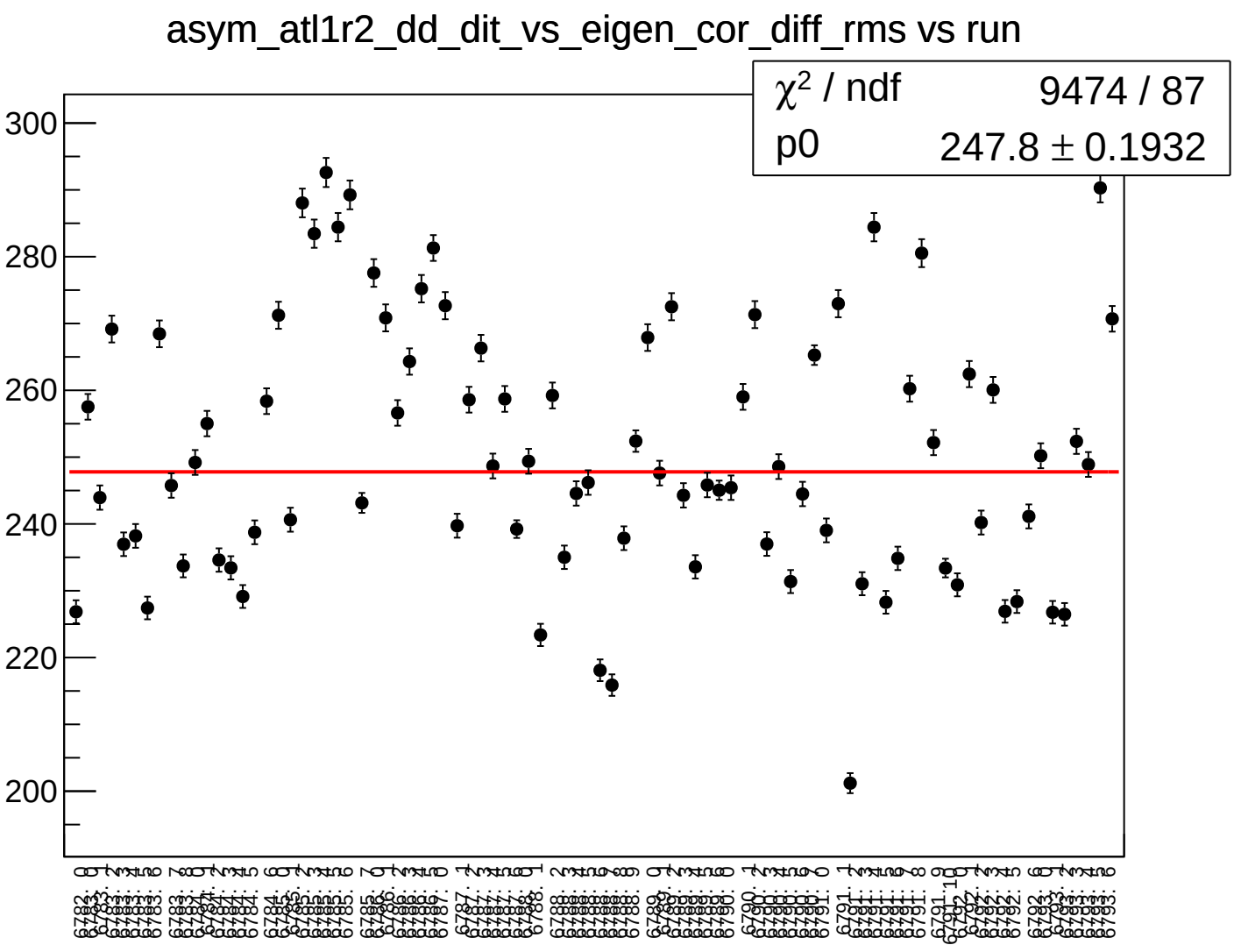

pull1D
Entries 88
Mean 0.02895
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

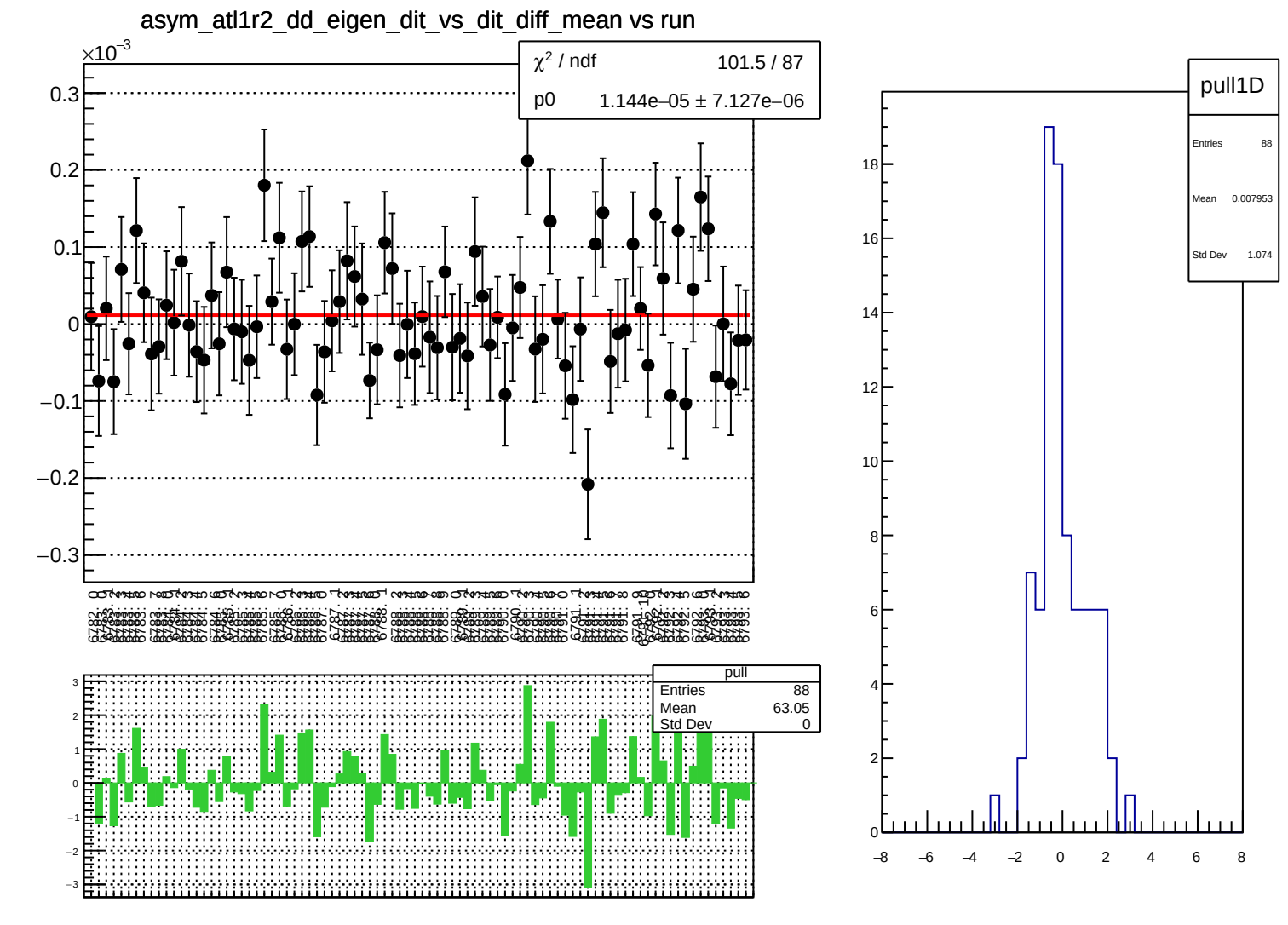

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 87
p0 7.211e−11 ± 8.992e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

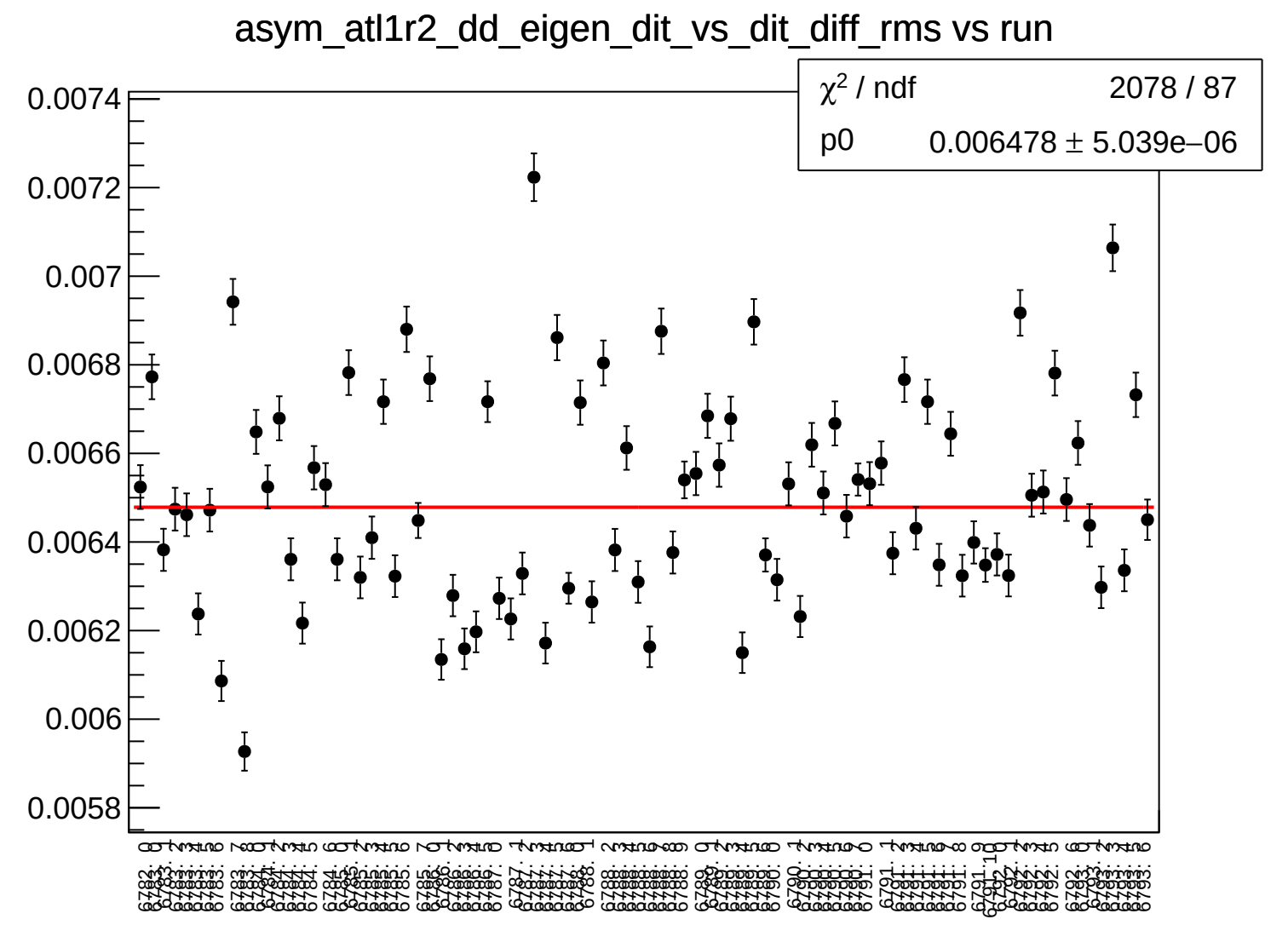

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.83 / 87
p0 0.1847 ± 0.2732
pull
Entries 88
Mean 510.8
Std Dev 0
pull1D
Entries 88
Mean 0.008992
Std Dev 0.8649

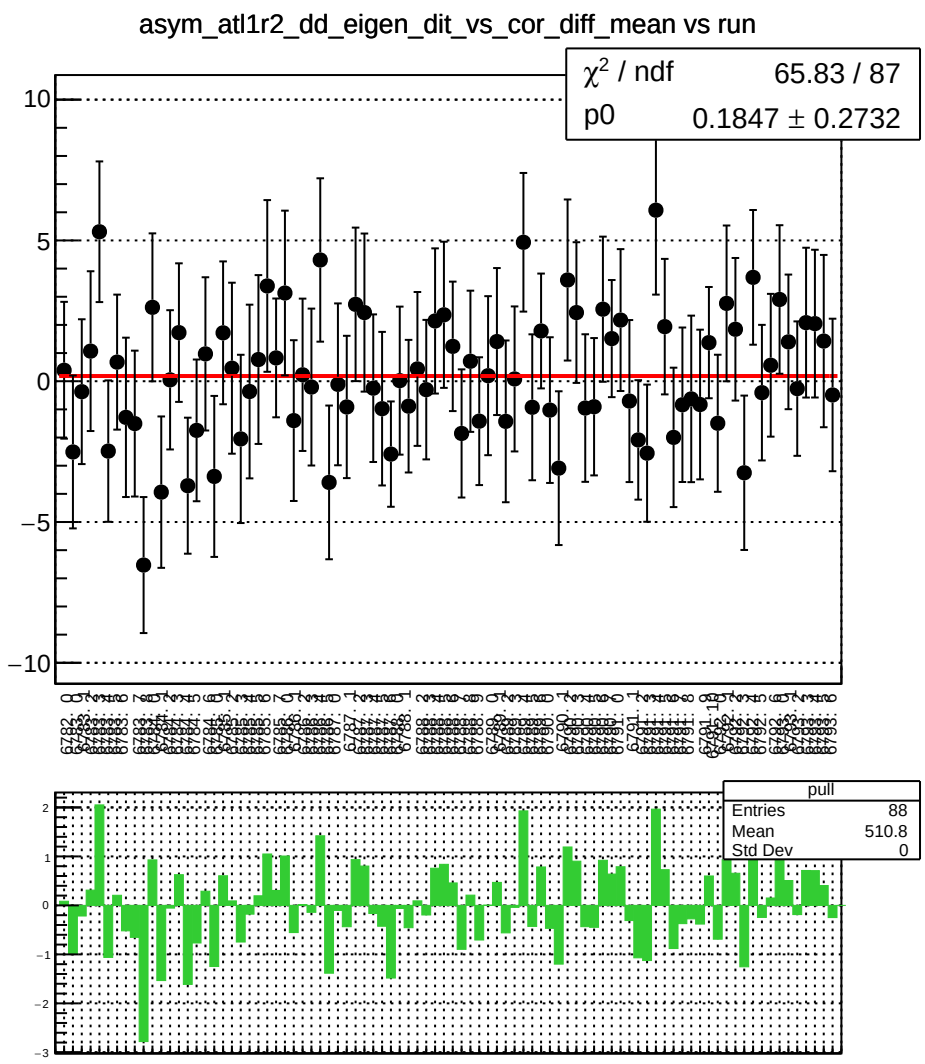

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9474 / 87
p0 247.8 ± 0.1932
300
280
260
240
220
200

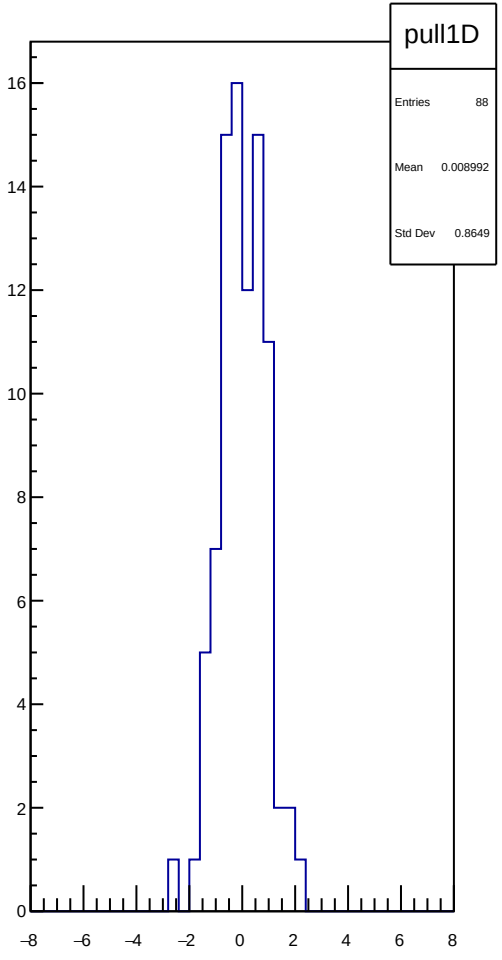

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.83 / 87
p0 0.1847 ± 0.2732
pull
Entries 88
Mean 510.8
Std Dev 0
pull1D
Entries 88
Mean 0.008992
Std Dev 0.8649

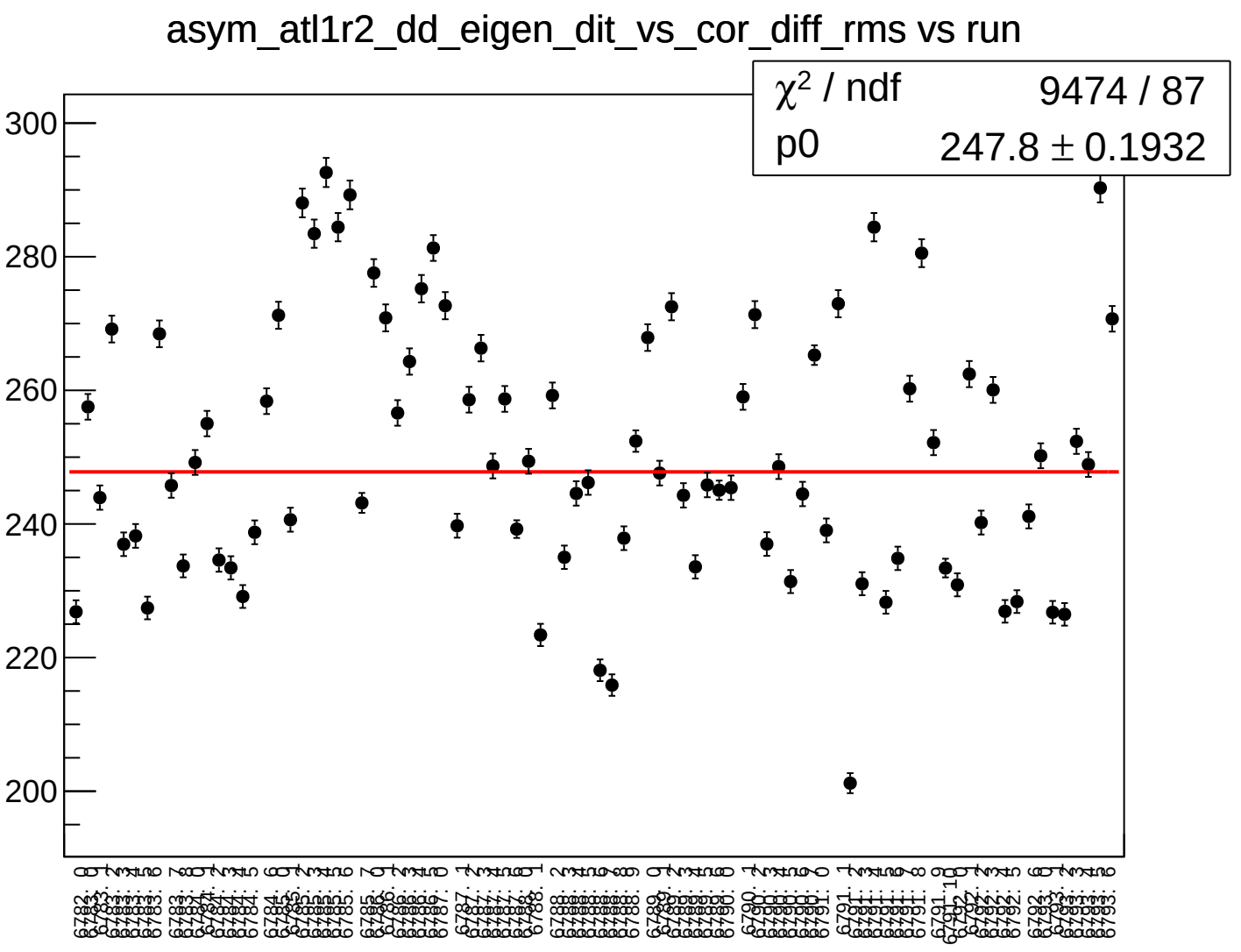

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9474 / 87
p0 247.8 ± 0.1932
300
280
260
240
220
200

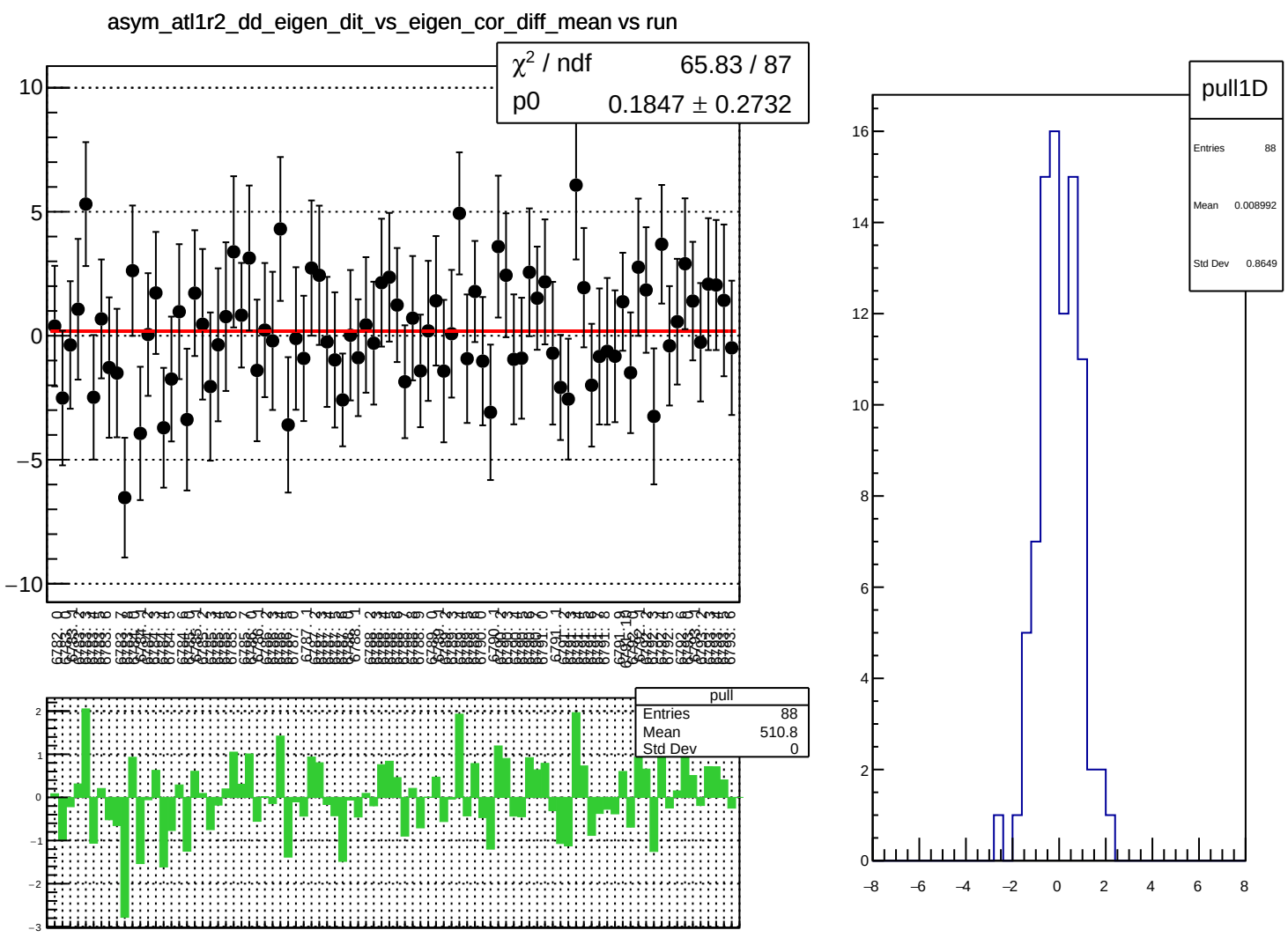

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 87
p0 1.144e−05 ± 7.127e−06
pull
Entries 88
Mean 63.05
Std Dev 0
pull1D
Entries 88
Mean 0.007953
Std Dev 1.074

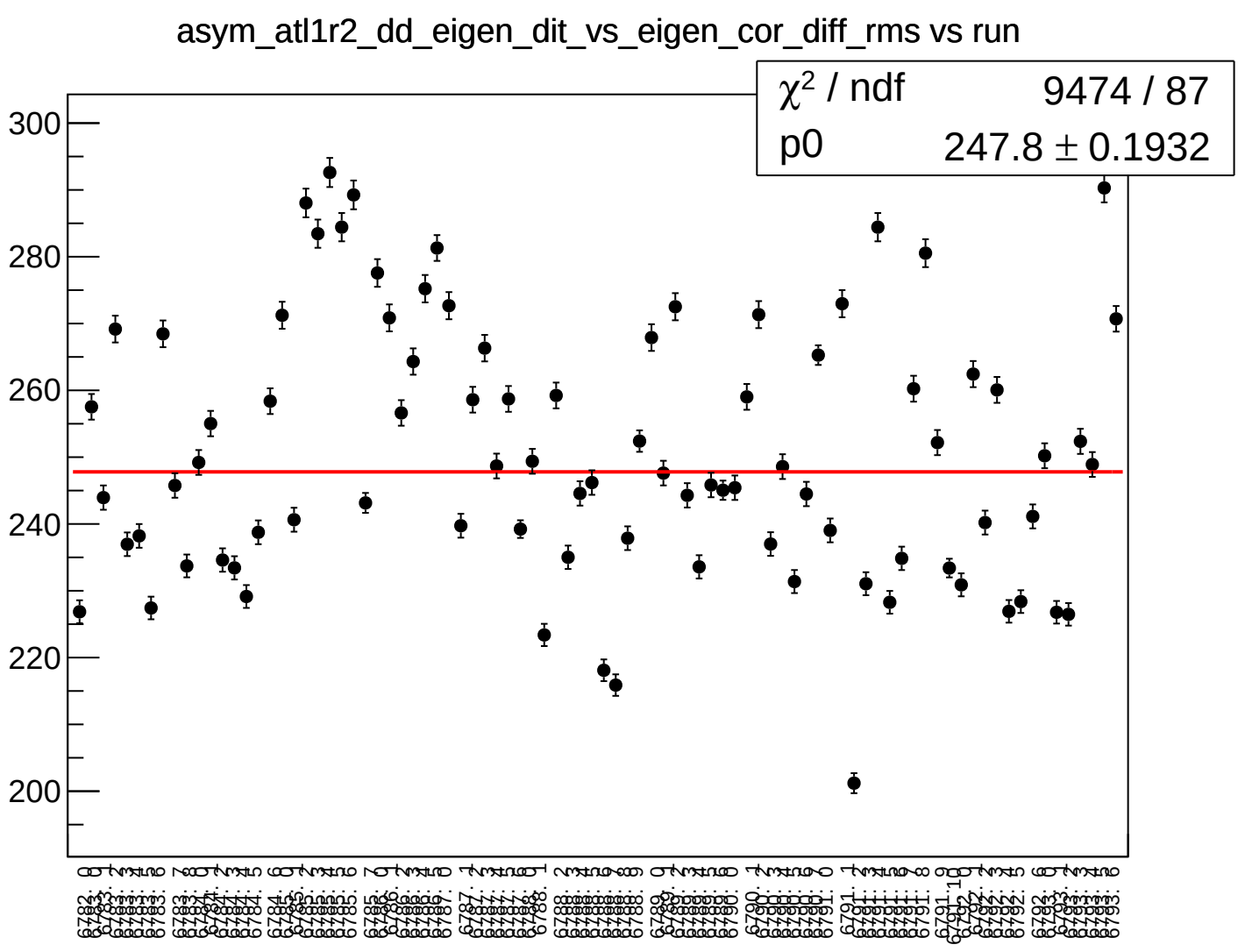

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2078 / 87
p0 0.006478 ± 5.039e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

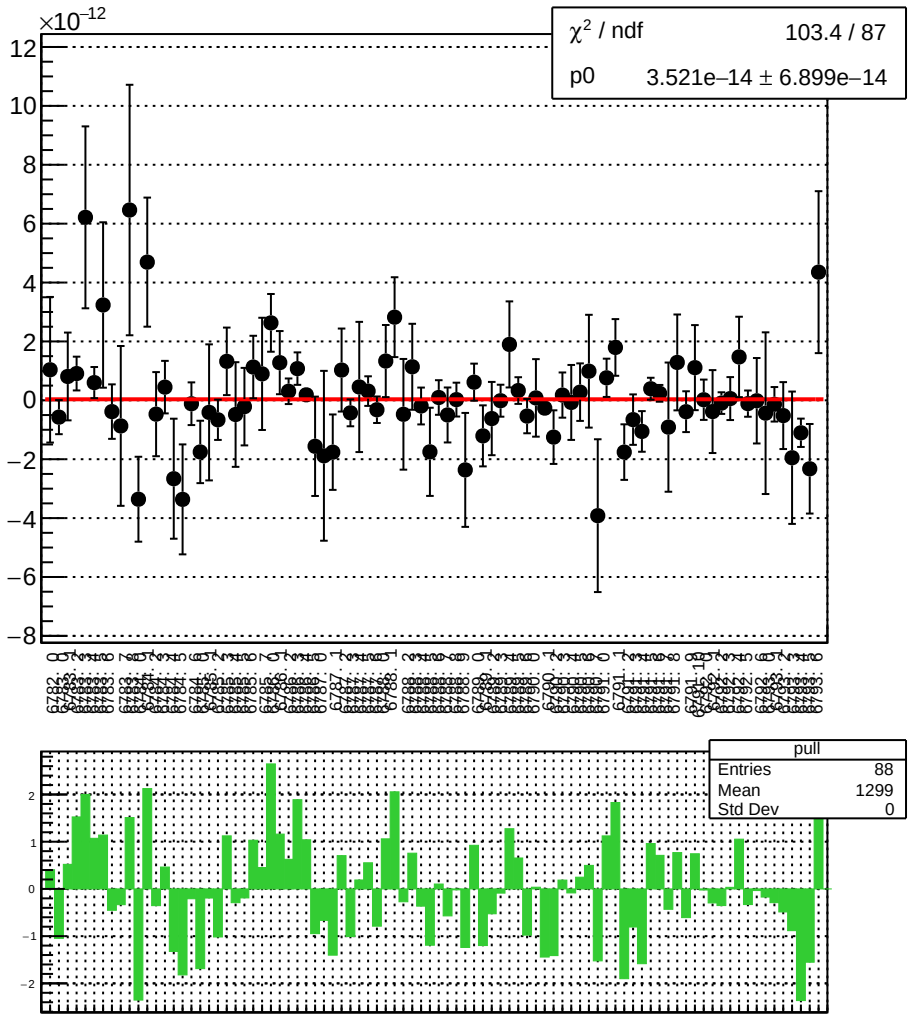

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.83 / 87
p0 0.1847 ± 0.2732
pull
Entries 88
Mean 510.8
Std Dev 0

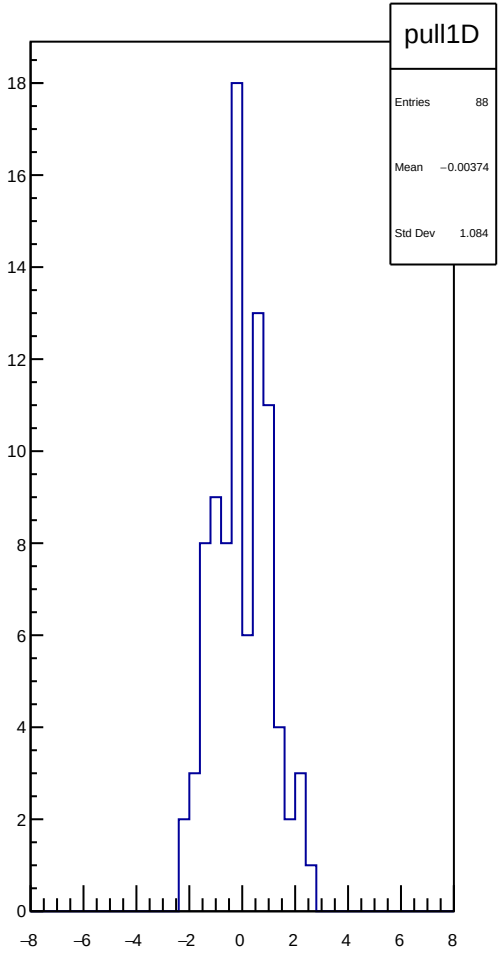

pull1D
Entries 88
Mean 0.008992
Std Dev 0.8649

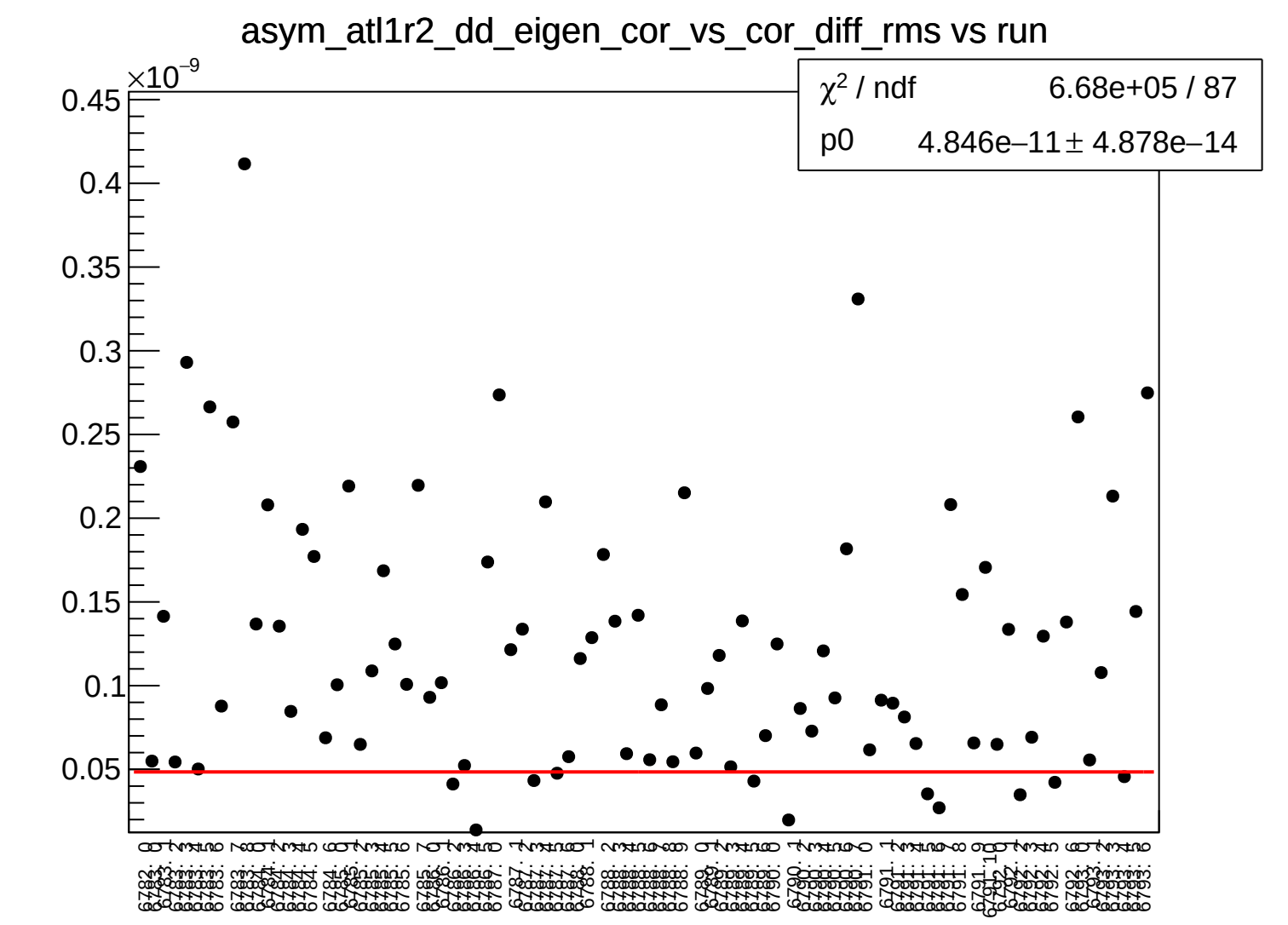

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9474 / 87
p0 247.8 ± 0.1932
300
280
260
240
220
200

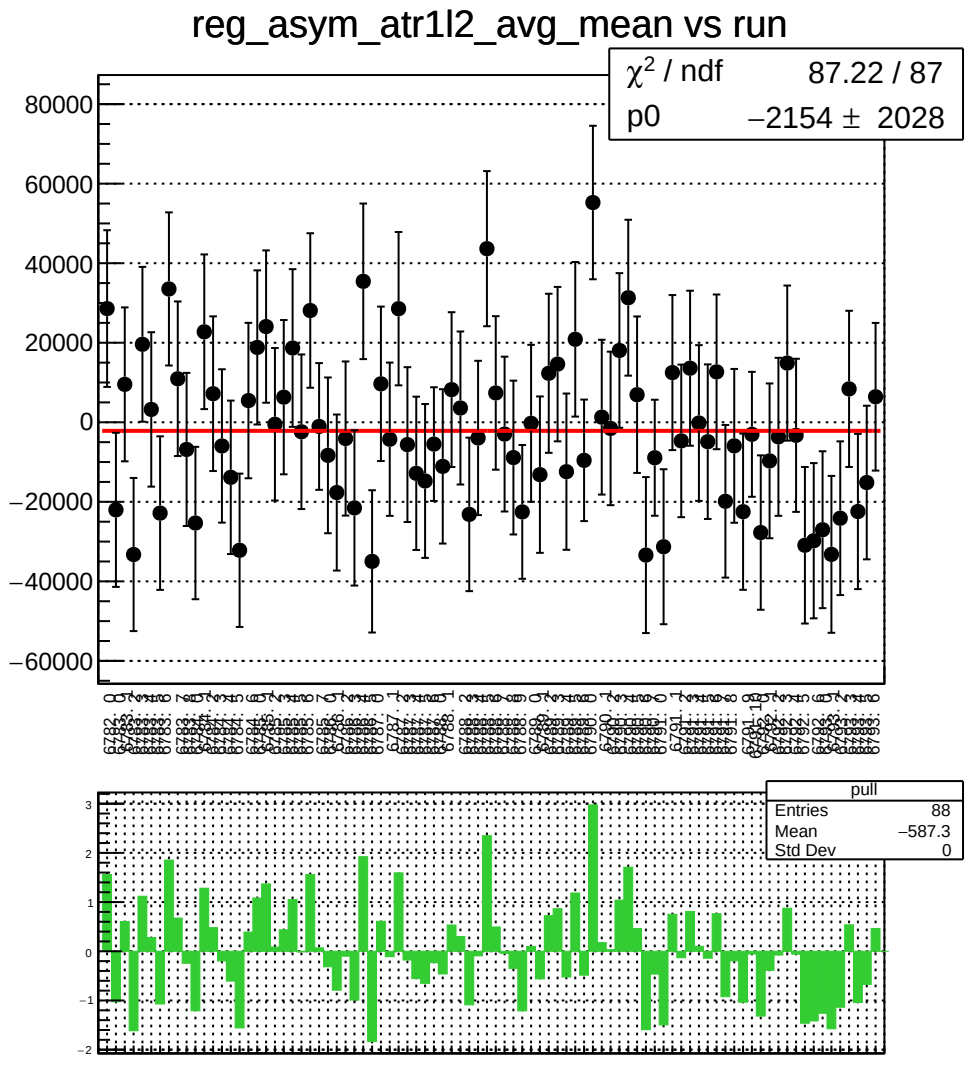

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.83 / 87
p0 0.1847 ± 0.2732
10
5
0
−5
−10
pull
Entries 88
Mean 510.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.008992
Std Dev 0.8649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

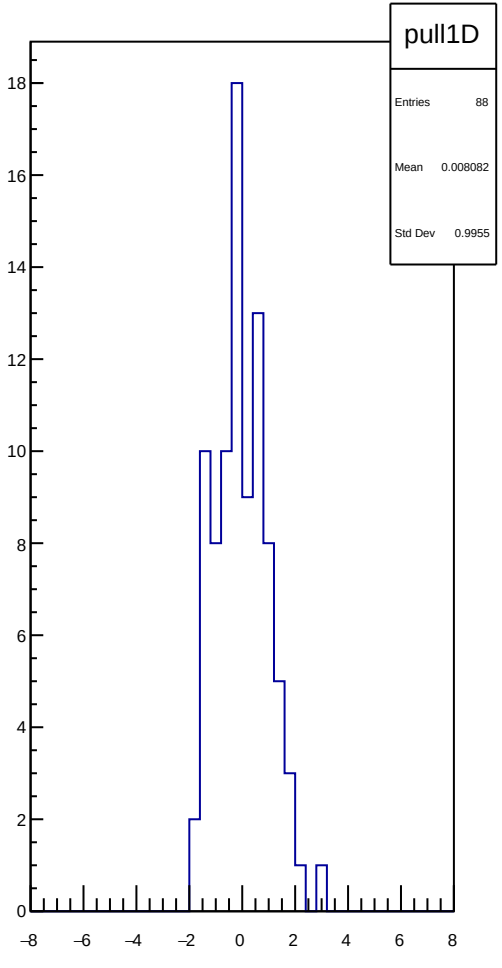

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9474 / 87
p0 247.8 ± 0.1932
300
280
260
240
220
200

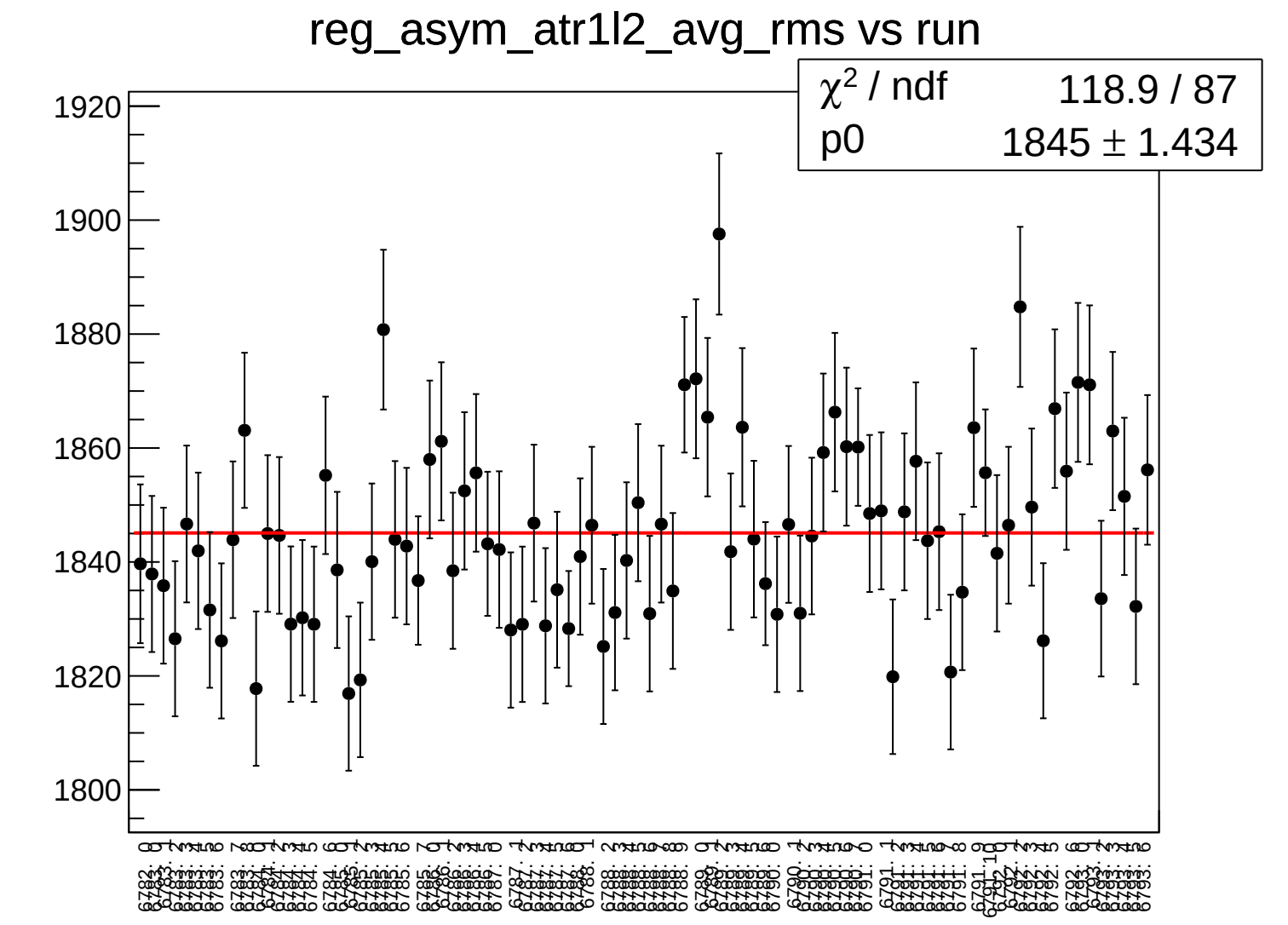

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.4 / 87
p0 3.521e−14 ± 6.899e−14
pull
Entries 88
Mean 1299
Std Dev 0

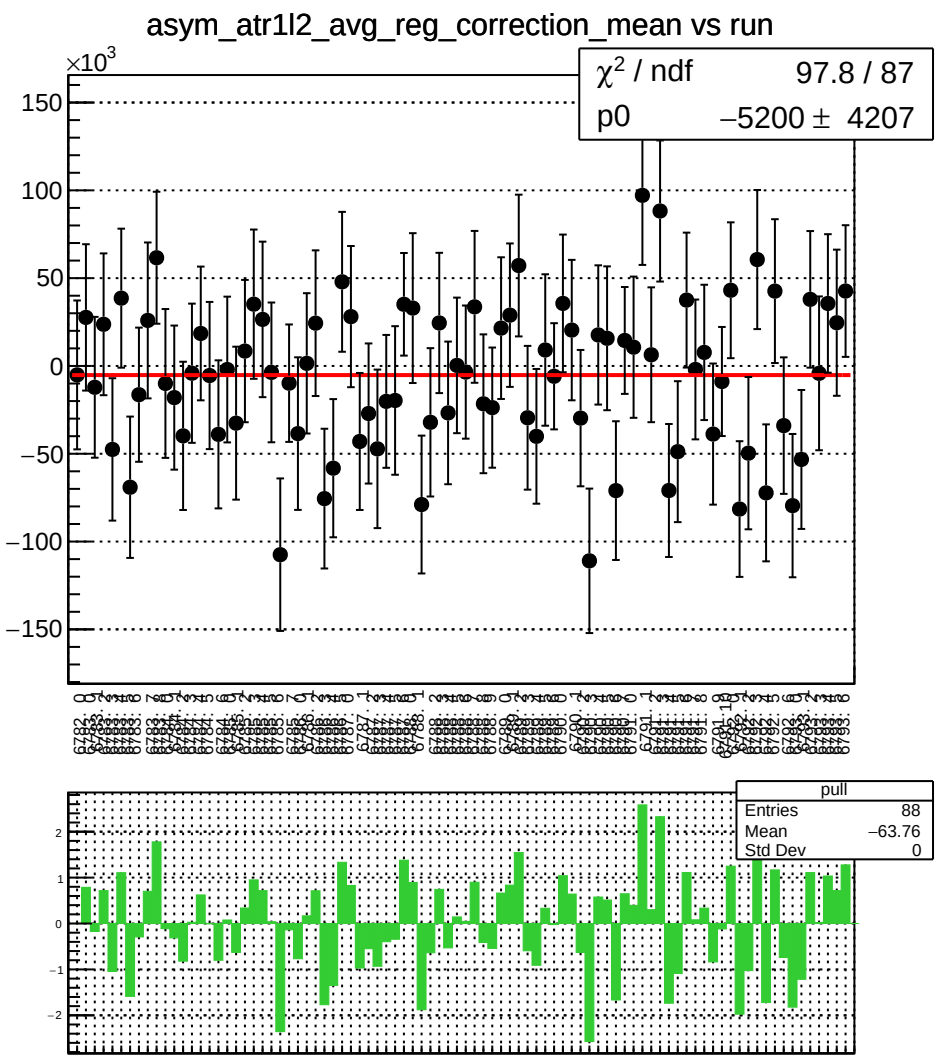

pull1D
Entries 88
Mean −0.00374
Std Dev 1.084

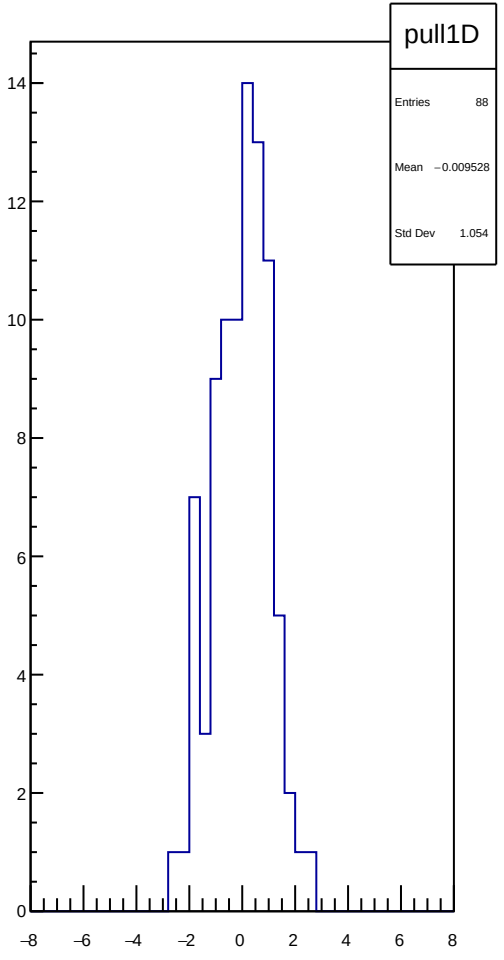

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.68e+05 / 87
p0 4.846e−11 ± 4.878e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

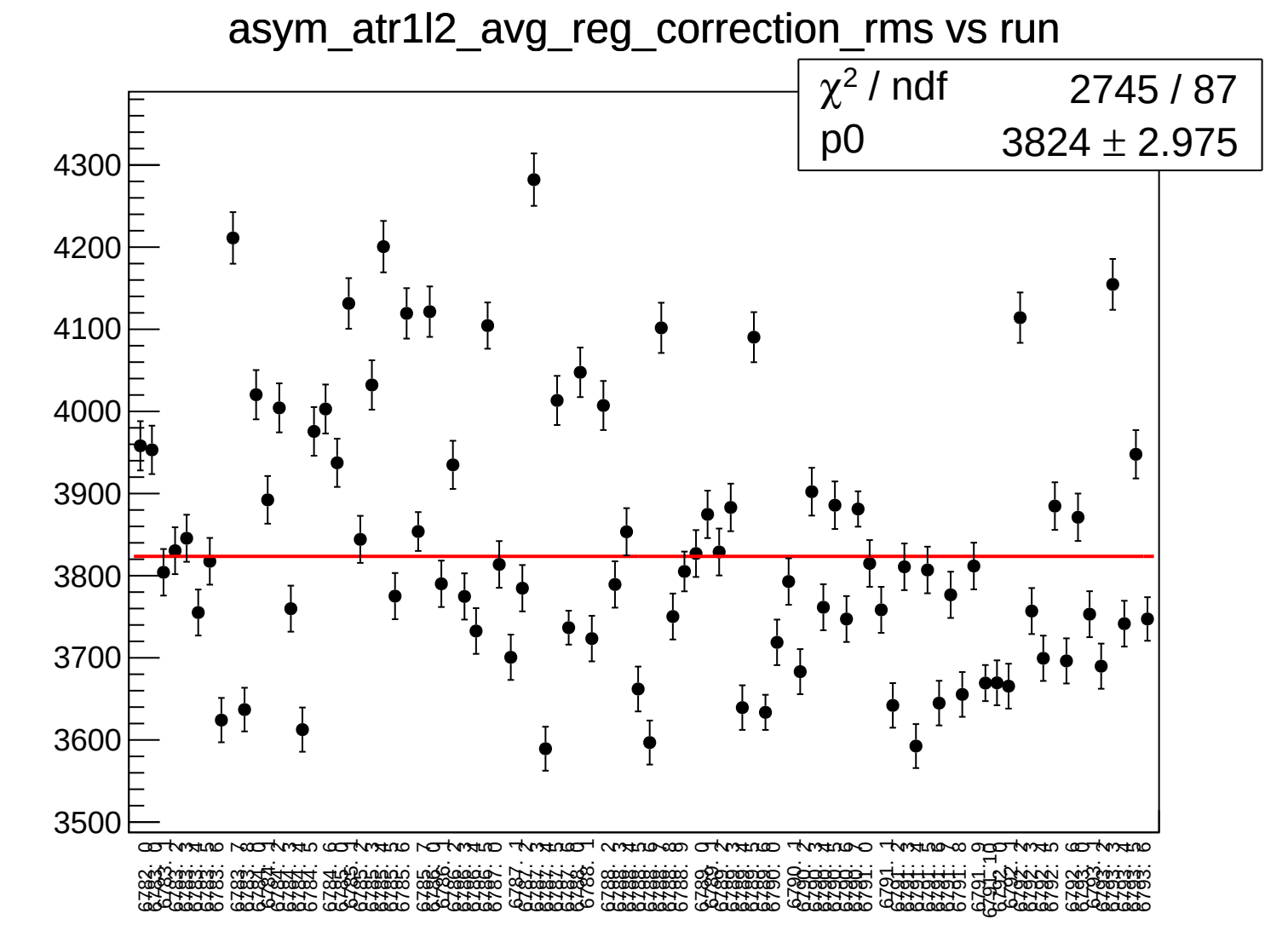

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 87.22 / 87
p0 −2154 ± 2028
pull
Entries 88
Mean −587.3
Std Dev 0

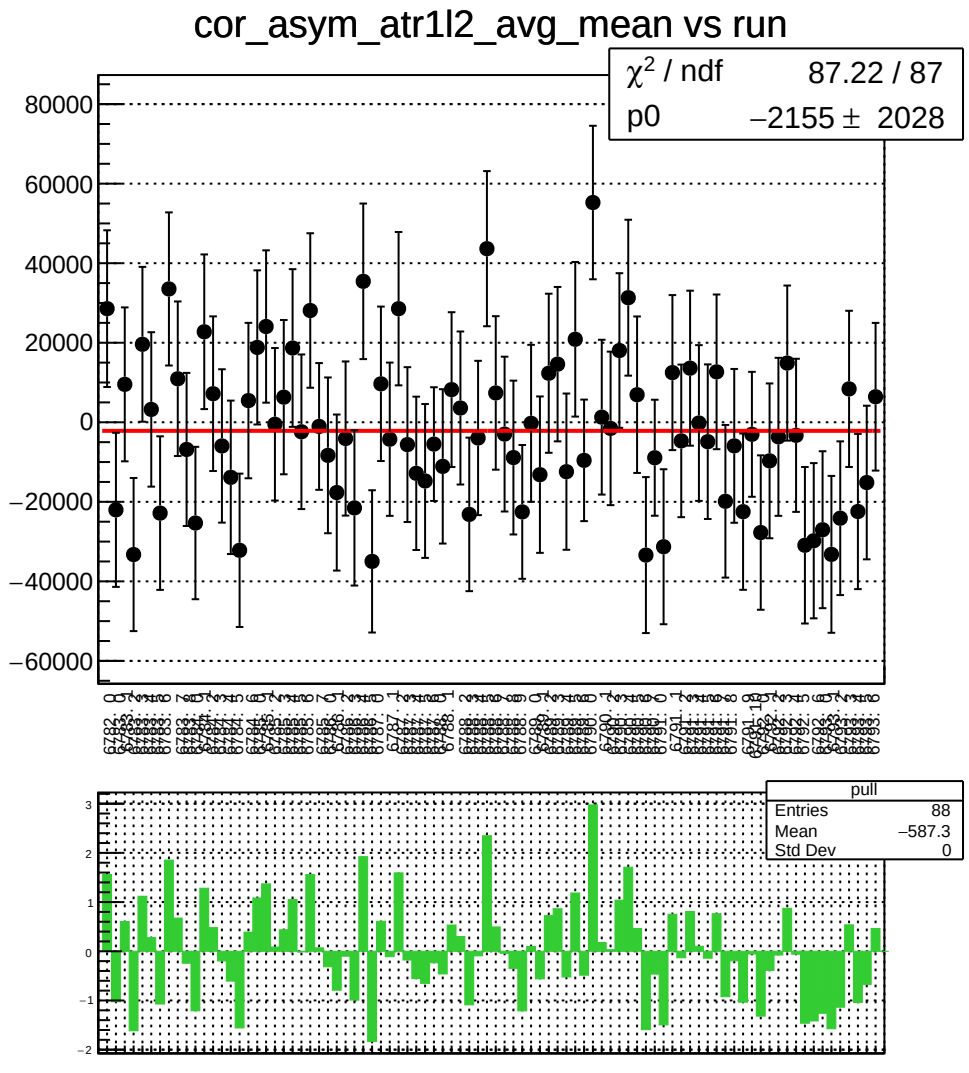

pull1D
Entries 88
Mean 0.008082
Std Dev 0.9955

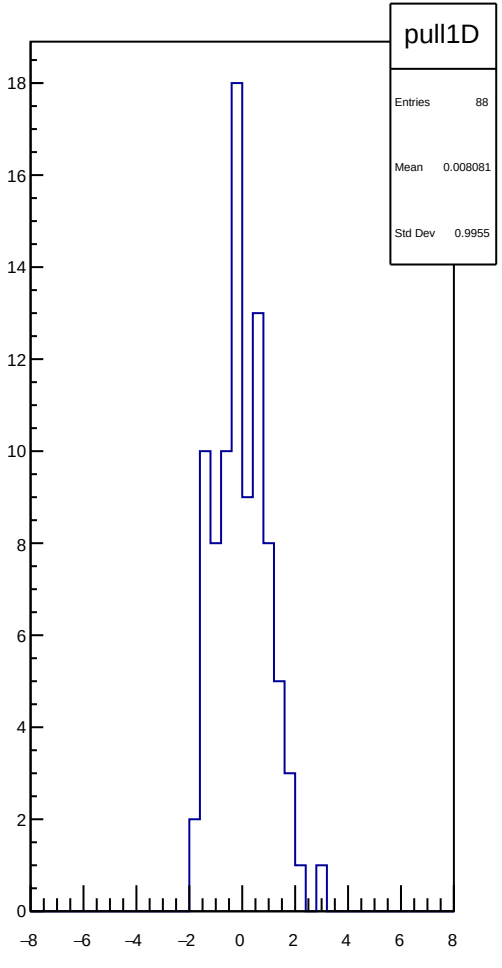

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 118.9 / 87
p0 1845 ± 1.434
1920
1900
1880
1860
1840
1820
1800

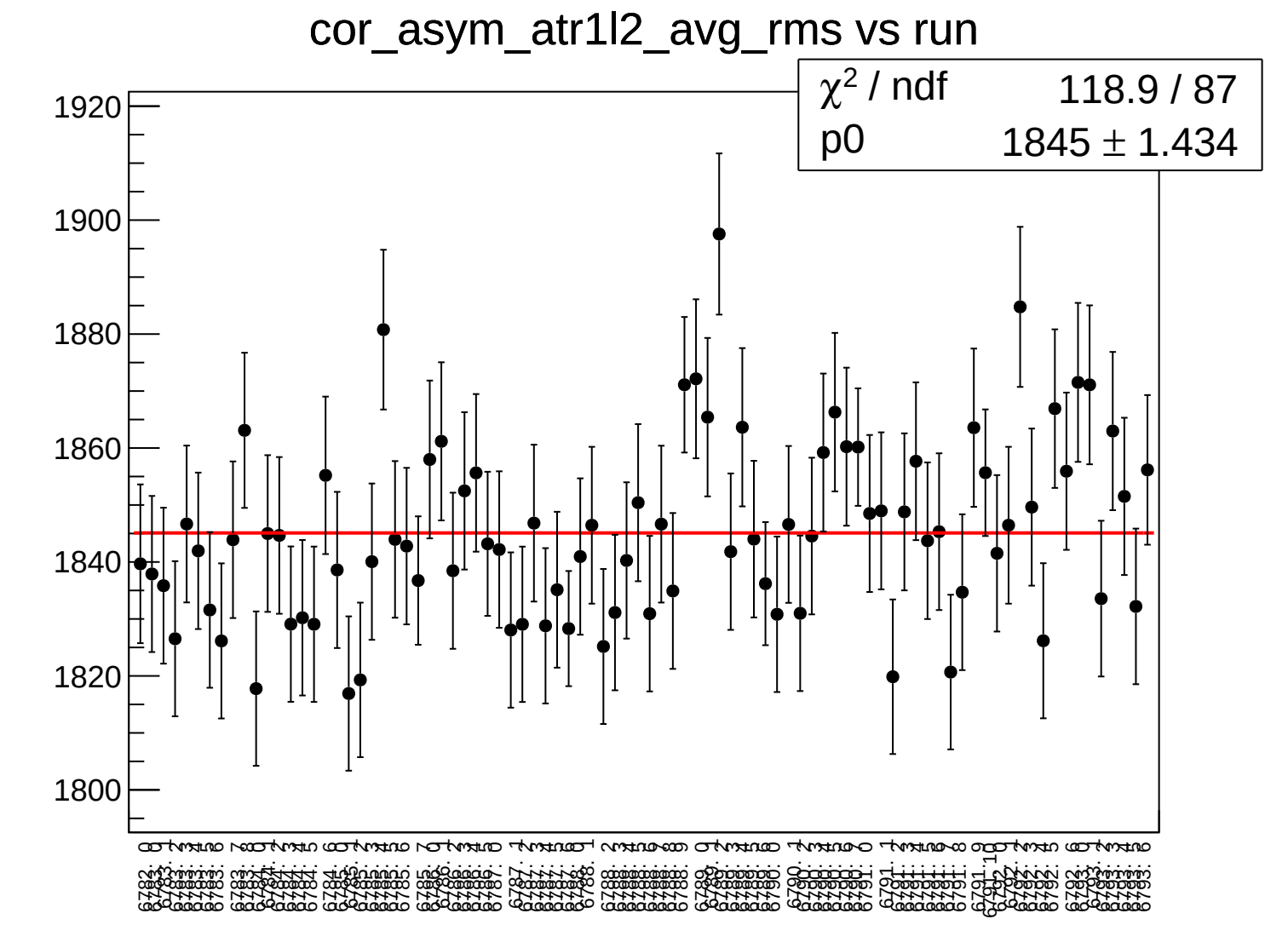

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.8 / 87
p0 −5200 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −63.76
Std Dev 0
2
1
0
−1
−2

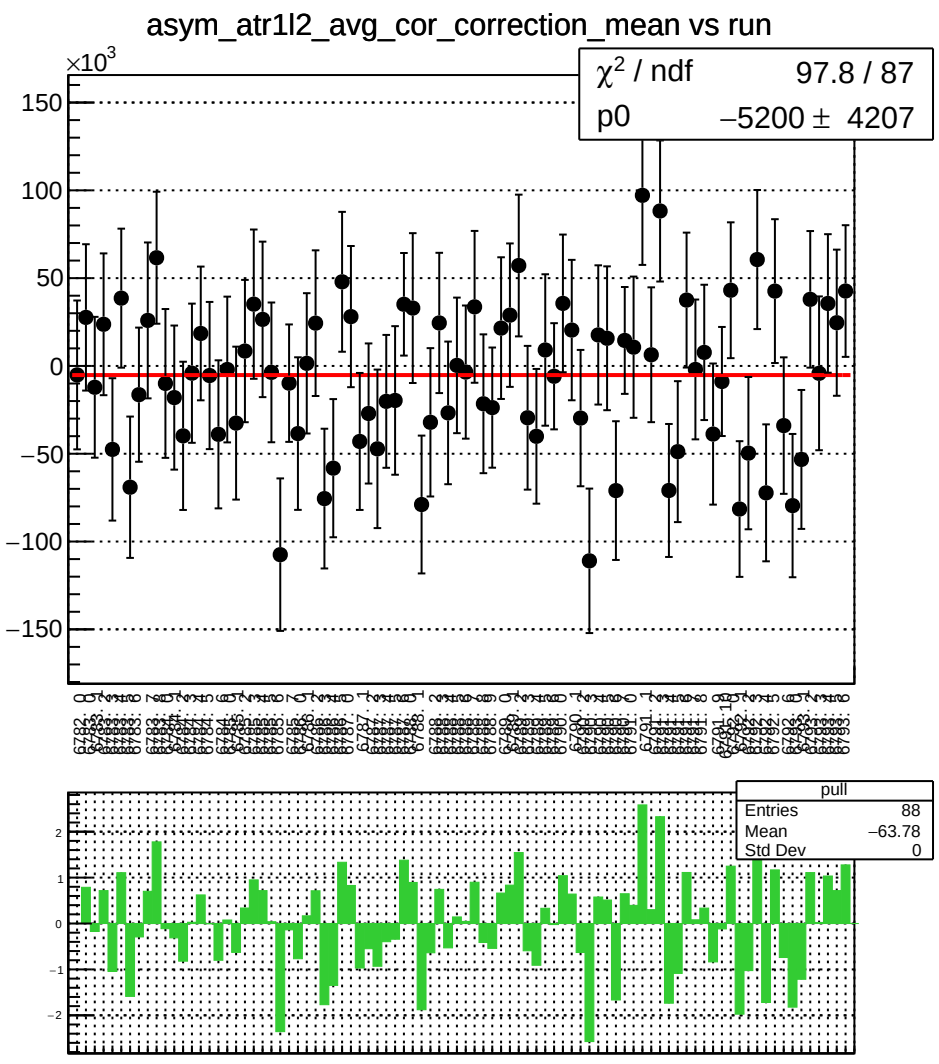

pull1D
Entries 88
Mean −0.009528
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

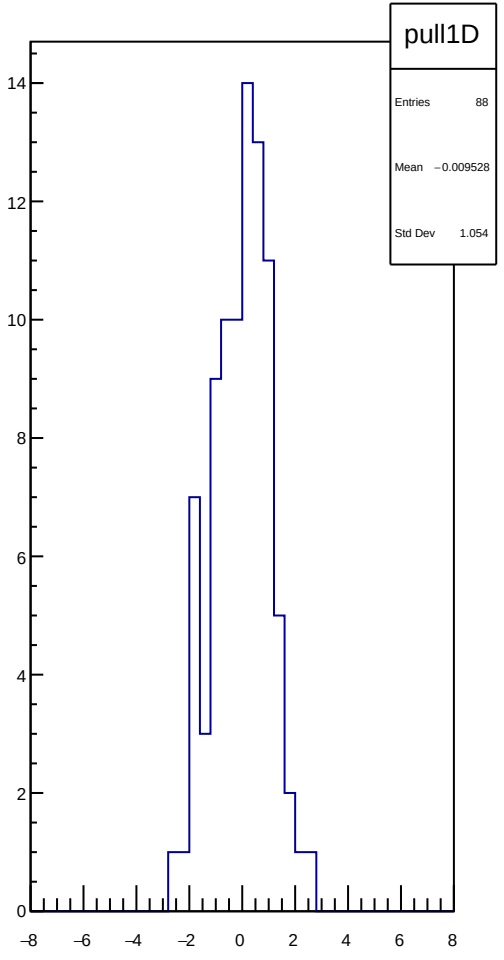

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 2745 / 87
p0 3824 ± 2.975
4300
4200
4100
4000
3900
3800
3700
3600
3500

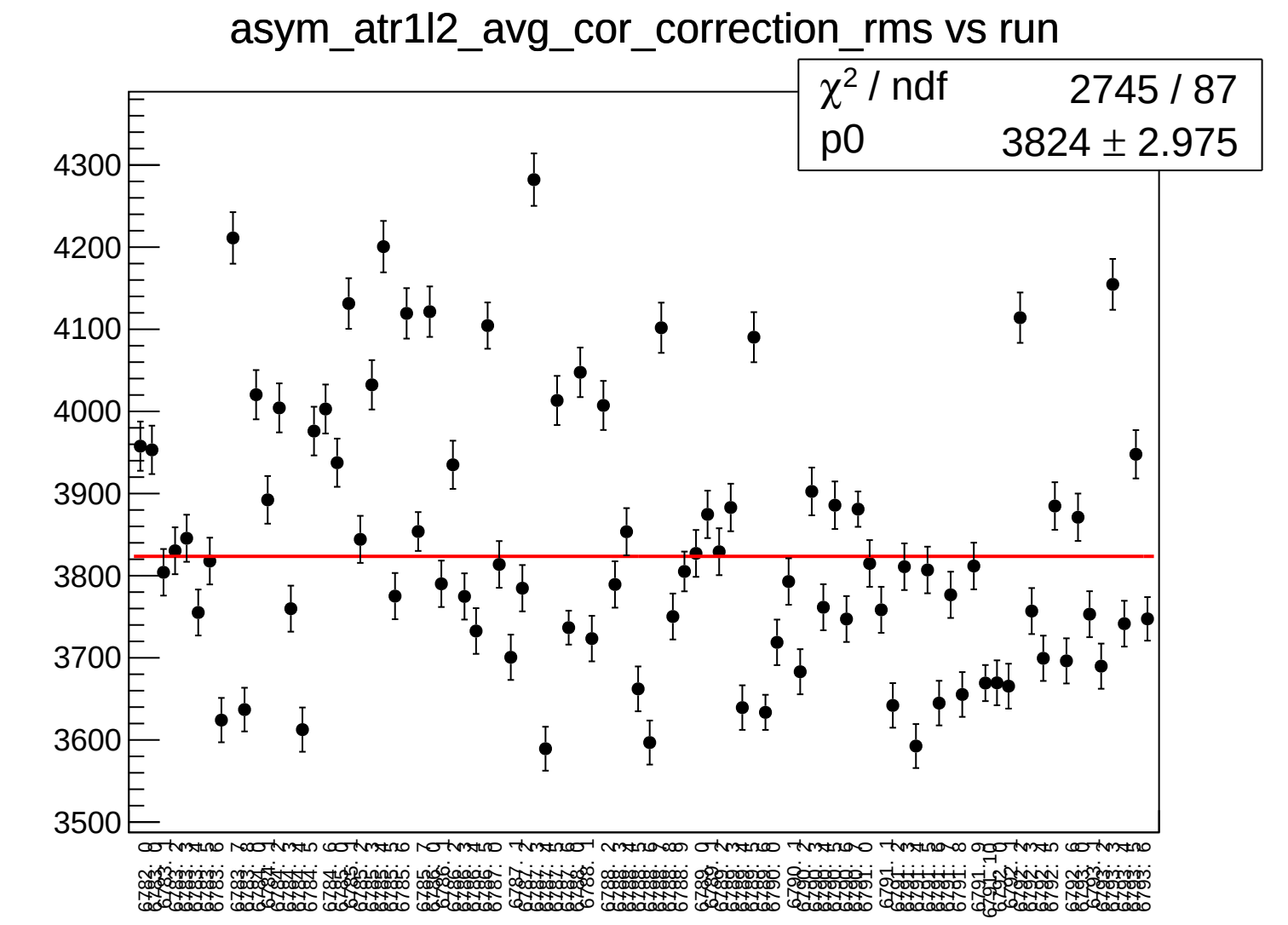

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 87.22 / 87
p0 −2155 ± 2028
pull
Entries 88
Mean −587.3
Std Dev 0

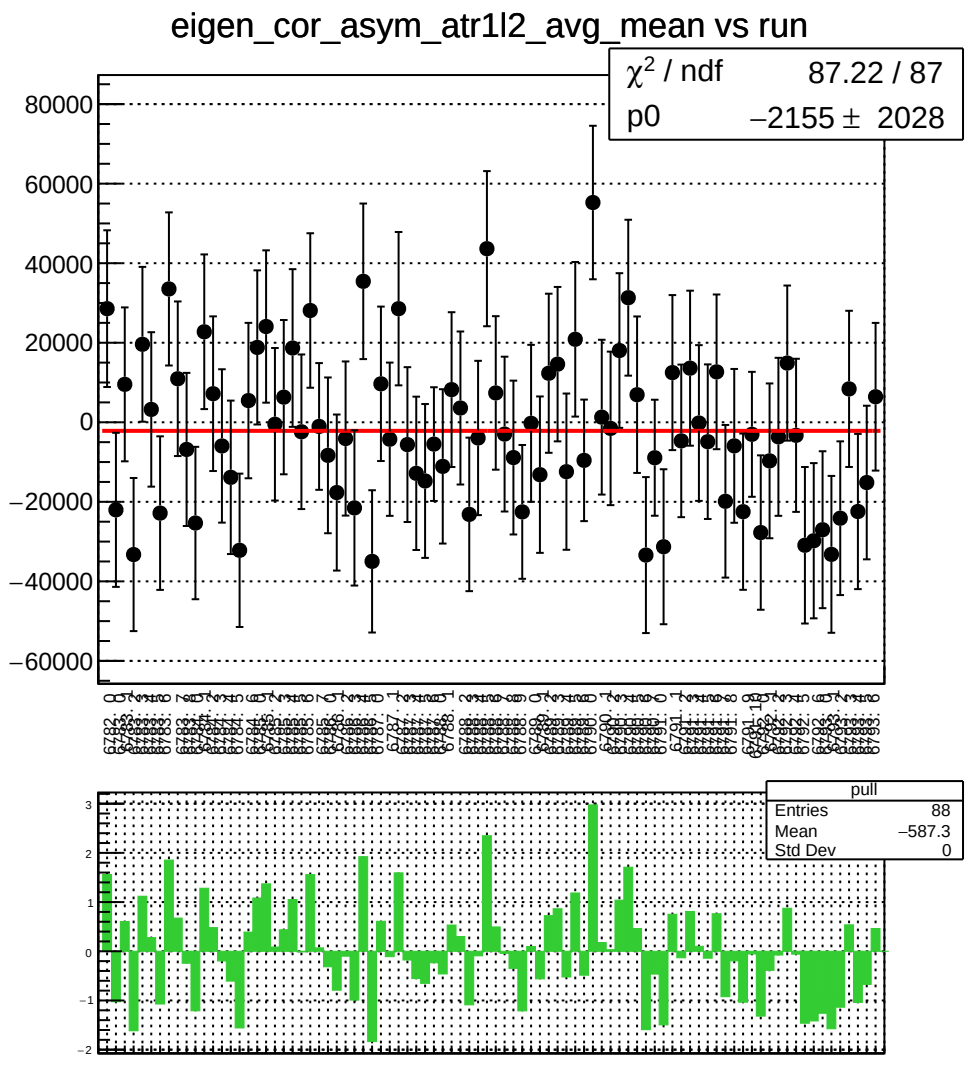

pull1D
Entries 88
Mean 0.008081
Std Dev 0.9955

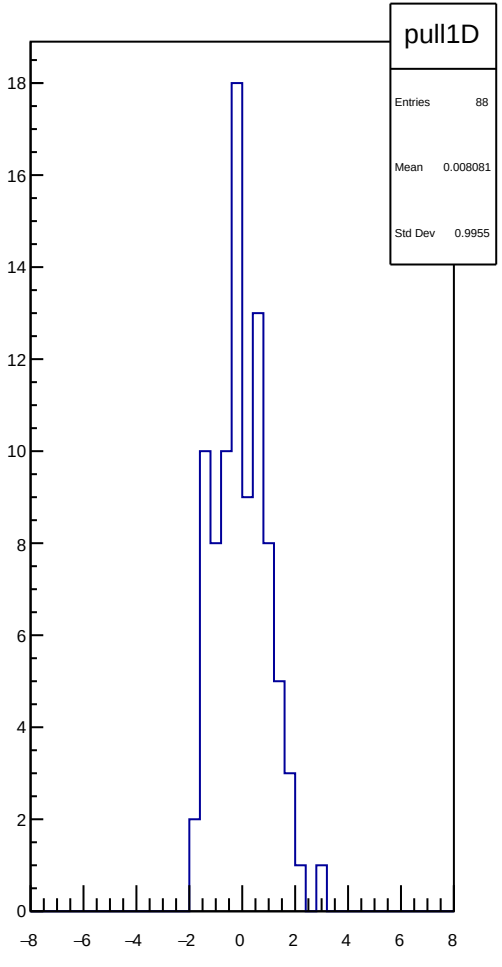

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 118.9 / 87
p0 1845 ± 1.434
1920
1900
1880
1860
1840
1820
1800

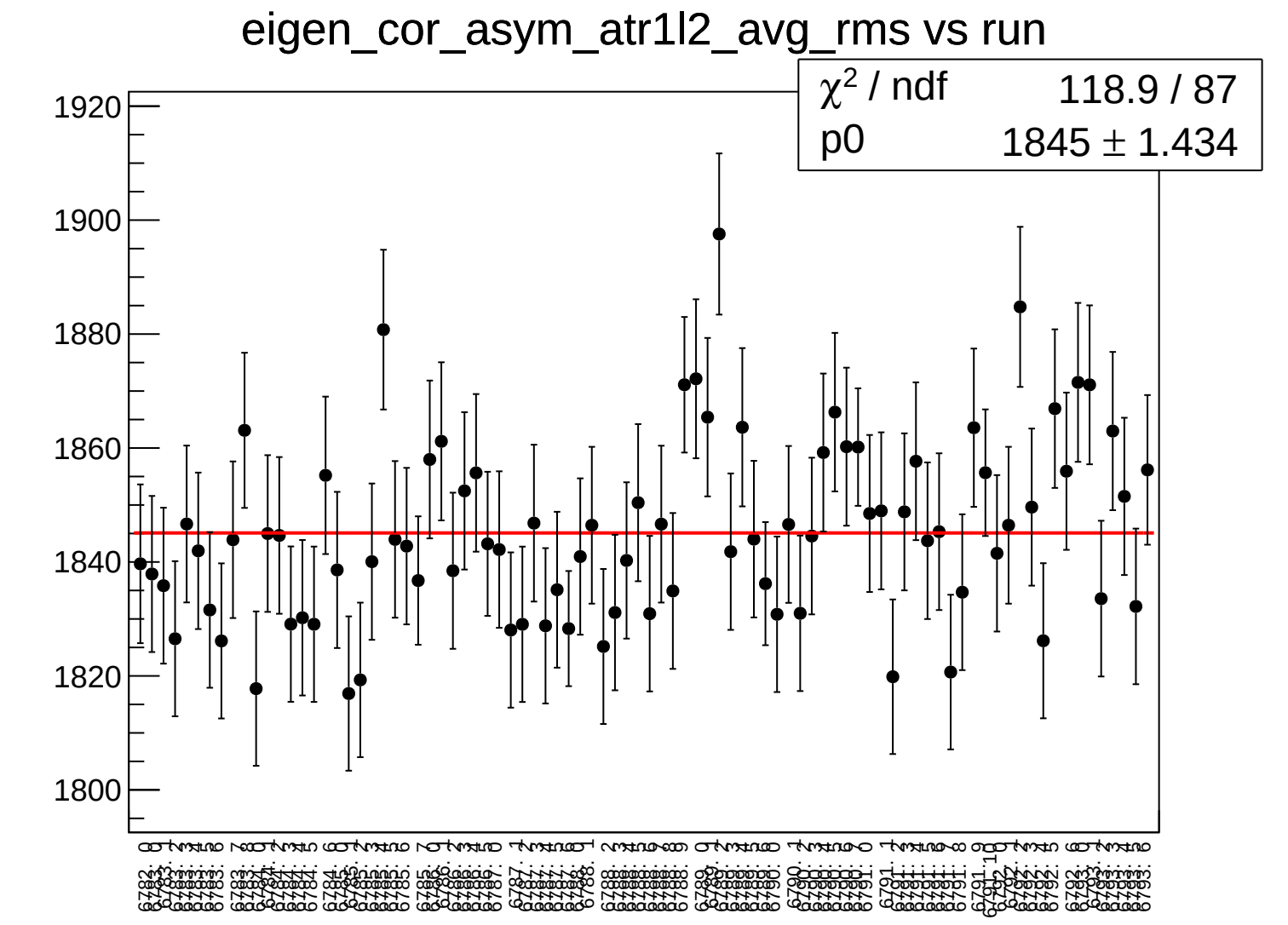

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.8 / 87
p0 −5200 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −63.78
Std Dev 0
2
1
0
−1
−2

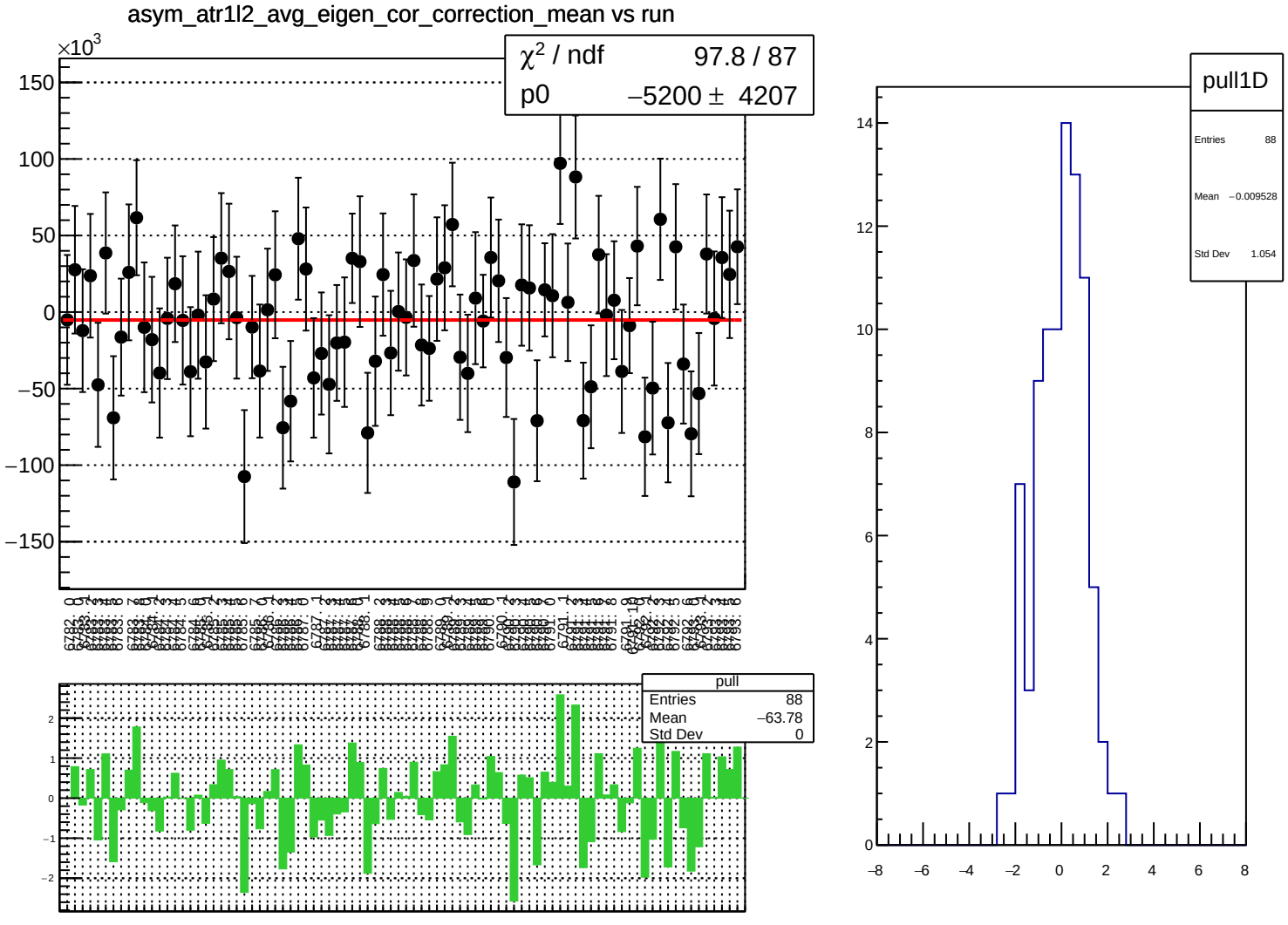

pull1D
Entries 88
Mean −0.009528
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

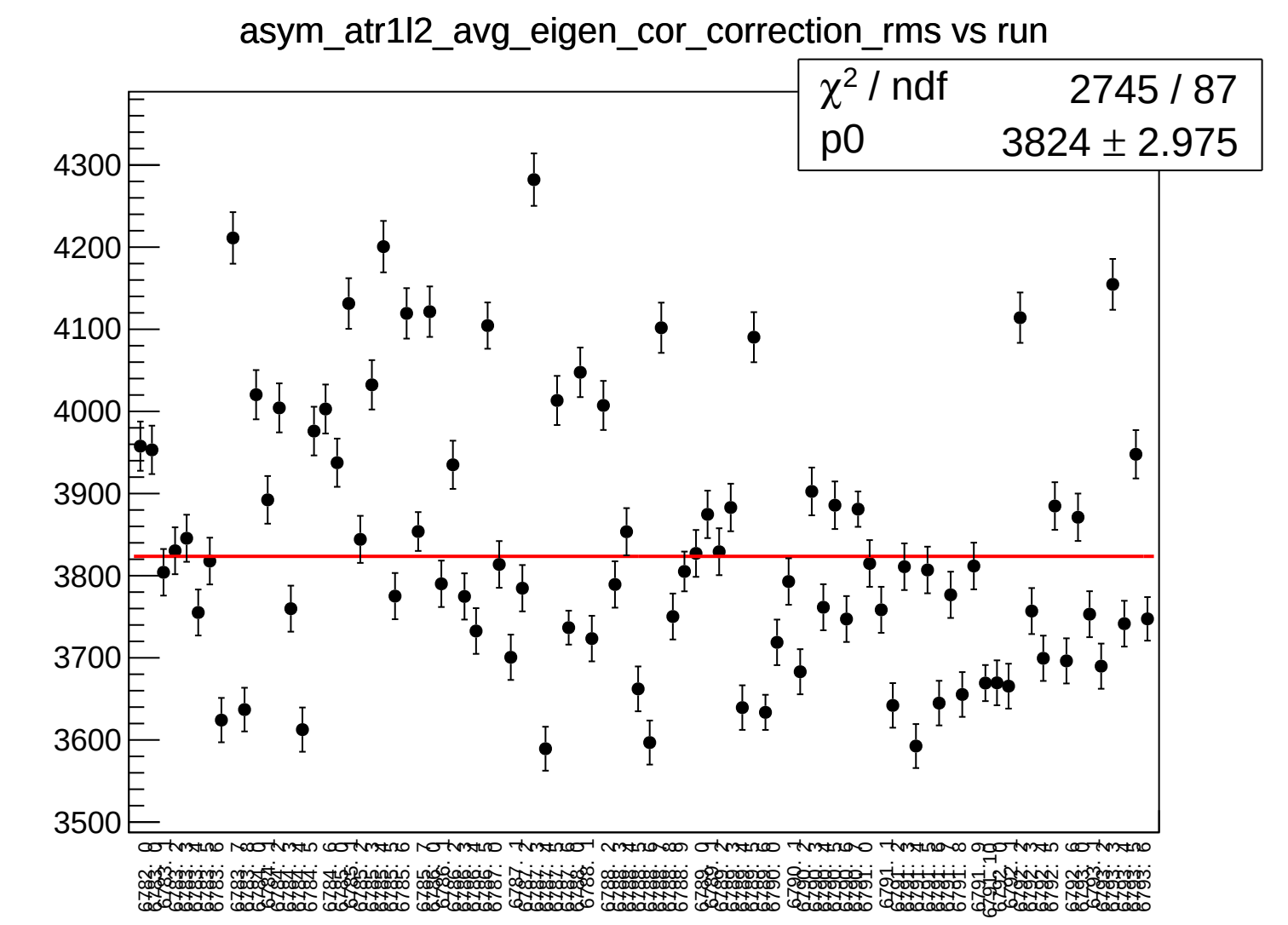

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2745 / 87
p0 3824 ± 2.975
4300
4200
4100
4000
3900
3800
3700
3600
3500

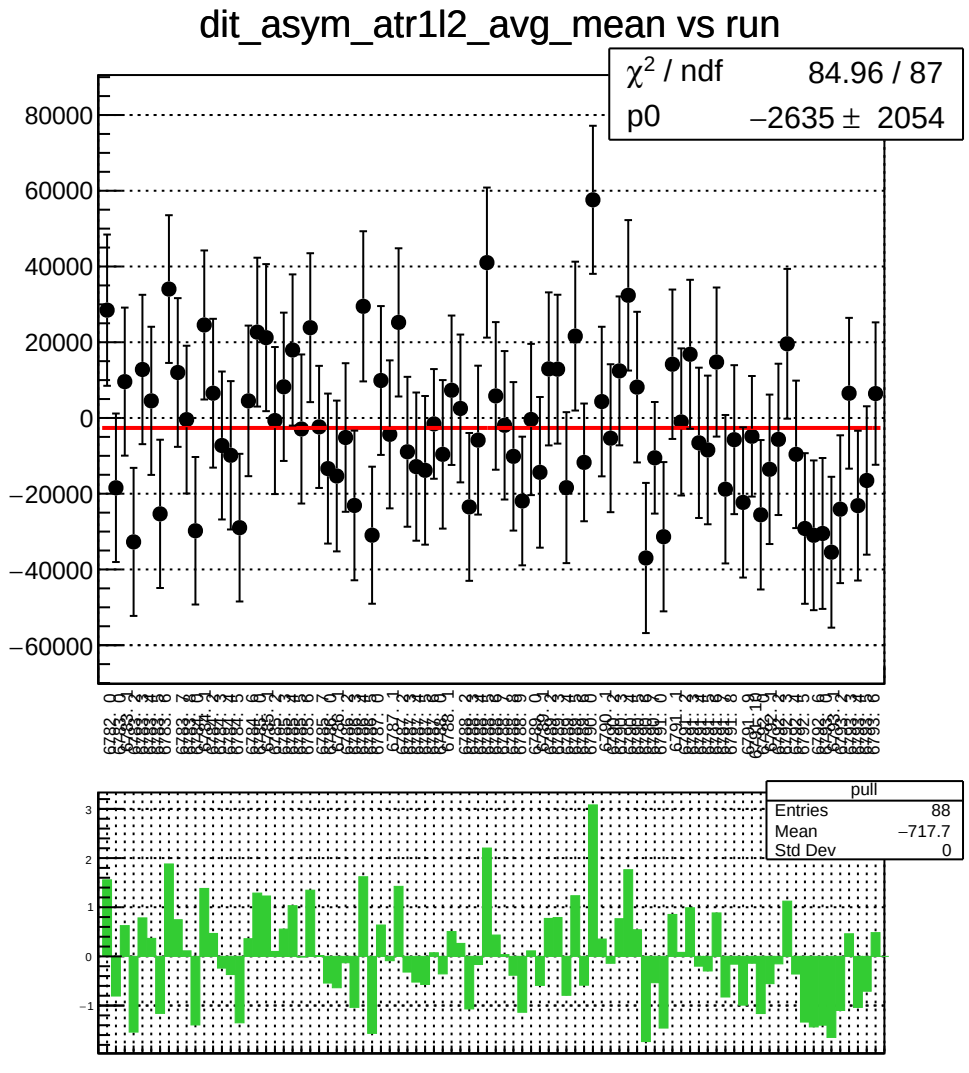

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 87.22 / 87
p0 −2155 ± 2028
pull
Entries 88
Mean −587.3
Std Dev 0

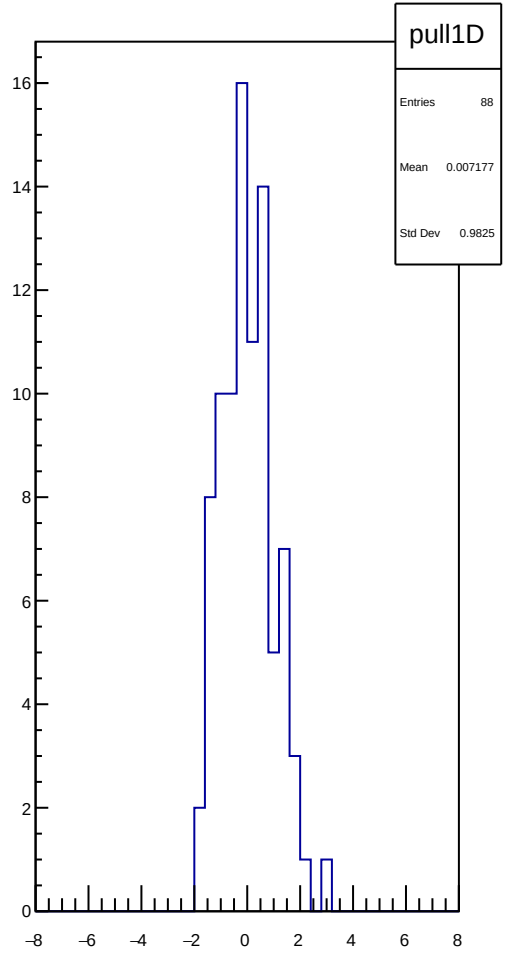

pull1D
Entries 88
Mean 0.008081
Std Dev 0.9955

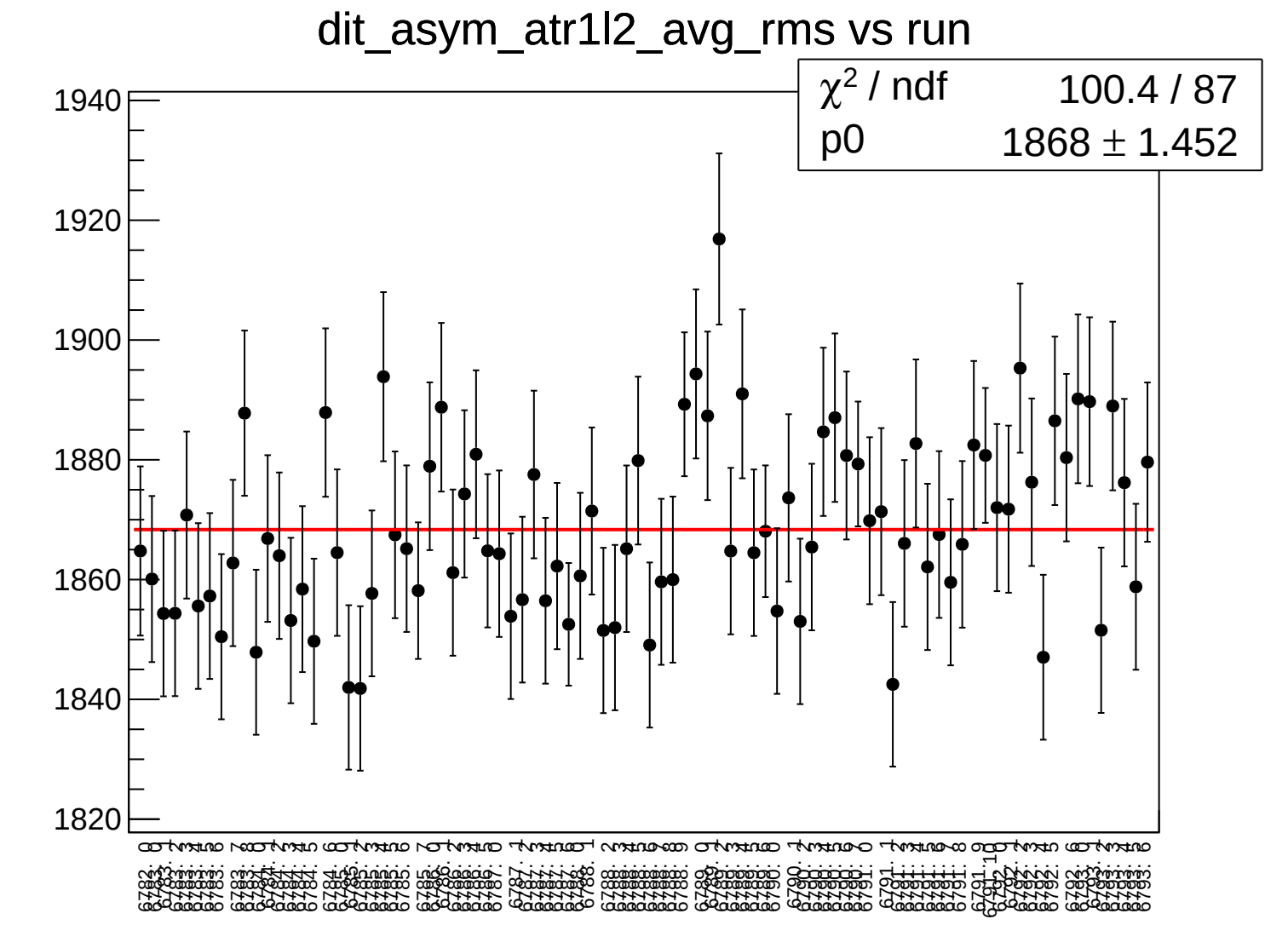

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 118.9 / 87
p0 1845 ± 1.434
1920
1900
1880
1860
1840
1820
1800

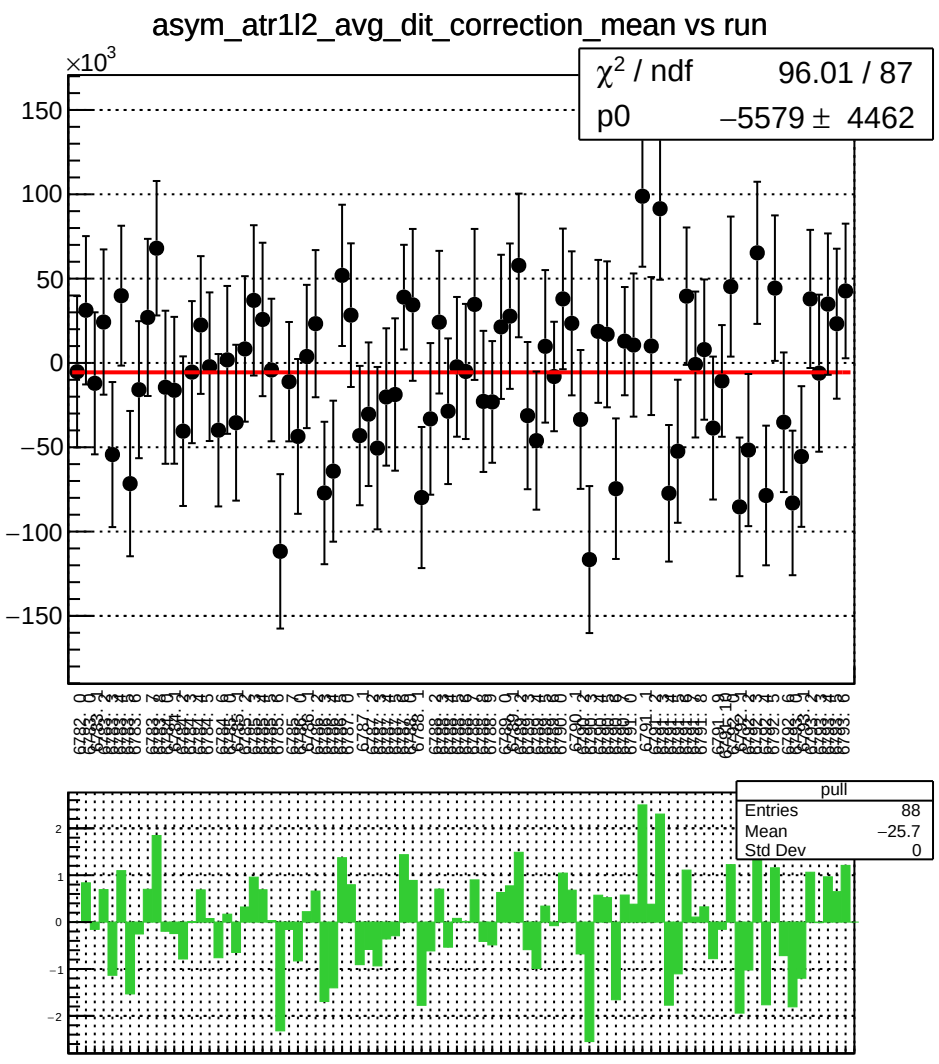

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.8 / 87
p0 −5200 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −63.78
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.009528
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

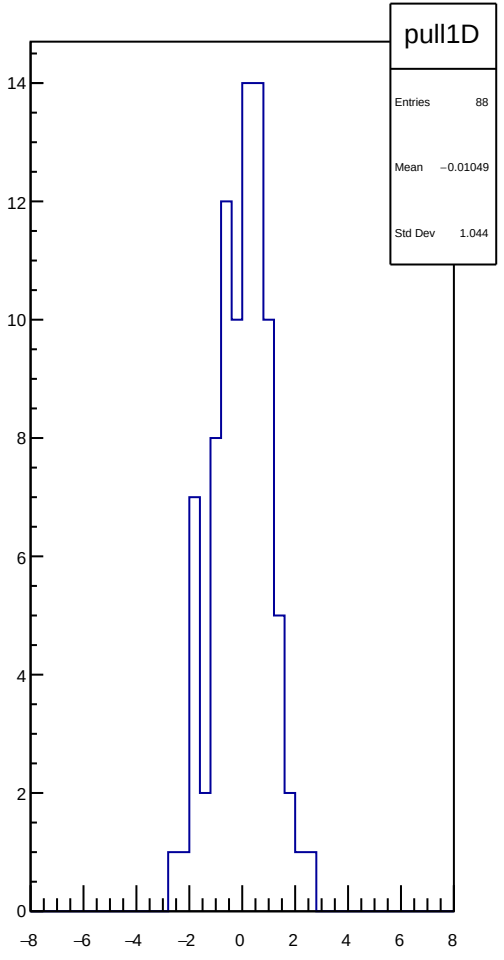

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2745 / 87
p0 3824 ± 2.975
4300
4200
4100
4000
3900
3800
3700
3600
3500

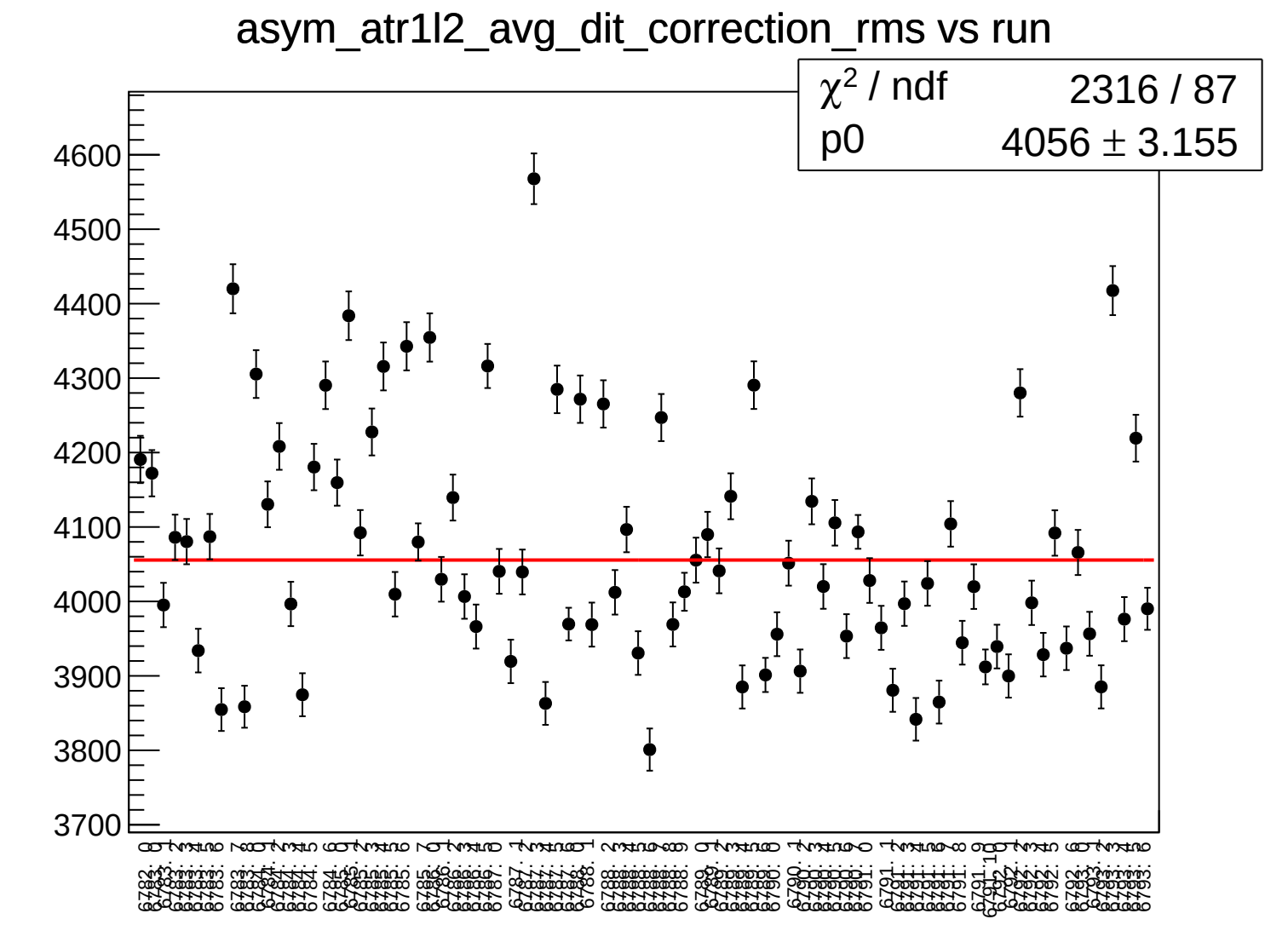

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.96 / 87
p0 −2635 ± 2054
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −717.7
Std Dev 0
3
2
1
0
−1

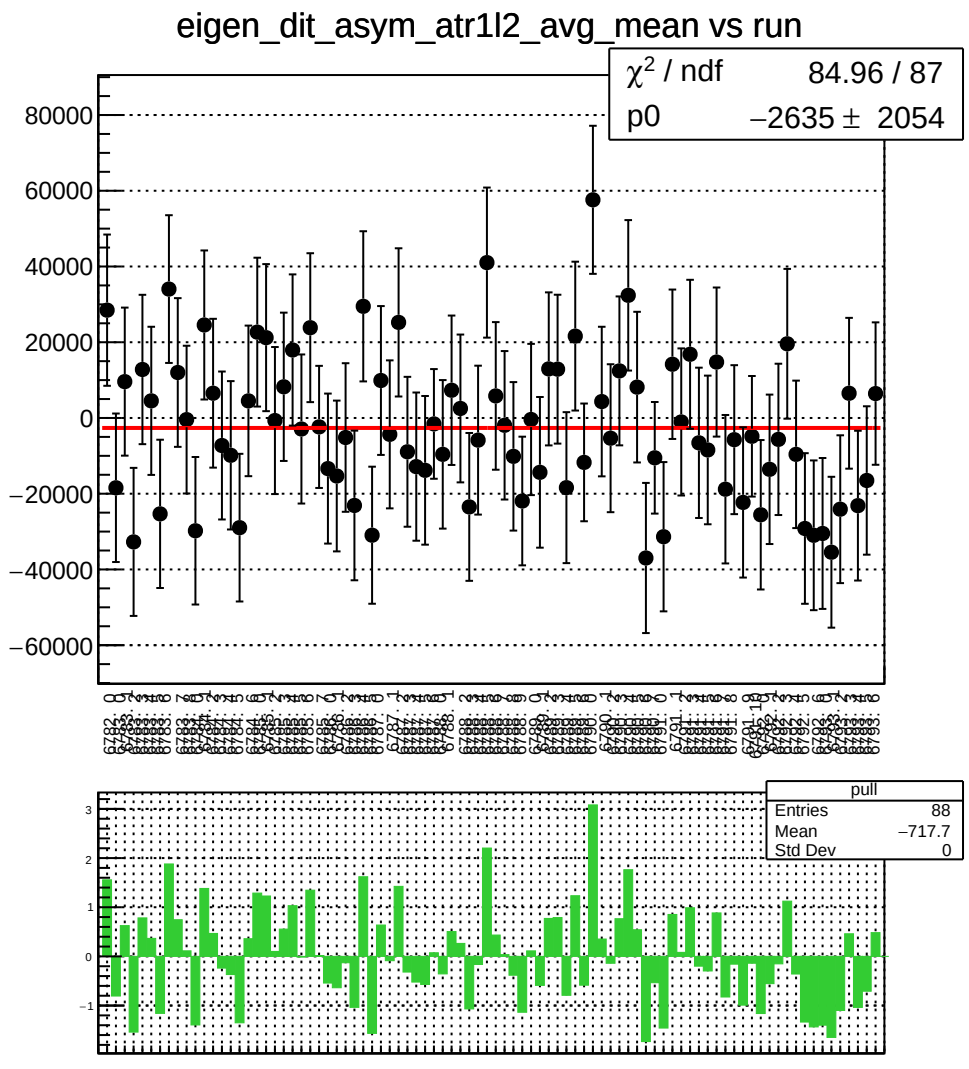

pull1D
Entries 88
Mean 0.007177
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

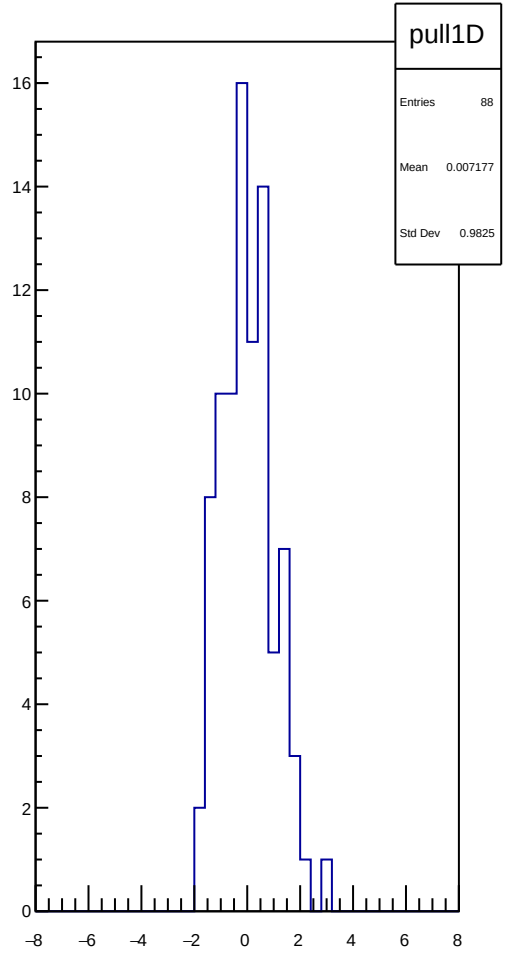

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 100.4 / 87
p0 1868 ± 1.452
1940
1920
1900
1880
1860
1840
1820

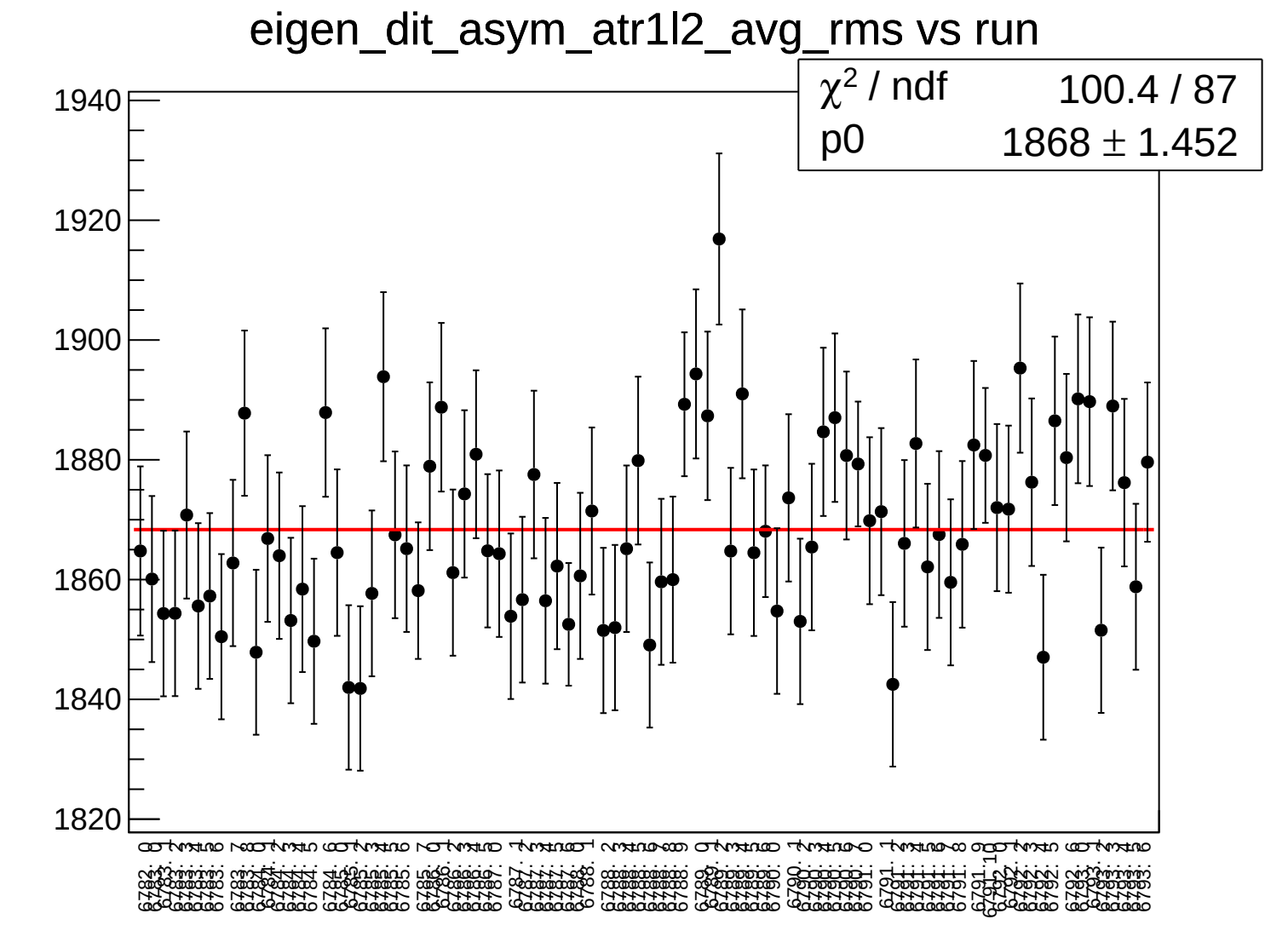

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.01 / 87
p0 −5579 ± 4462
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −25.7
Std Dev 0
2
1
0
−1
−2

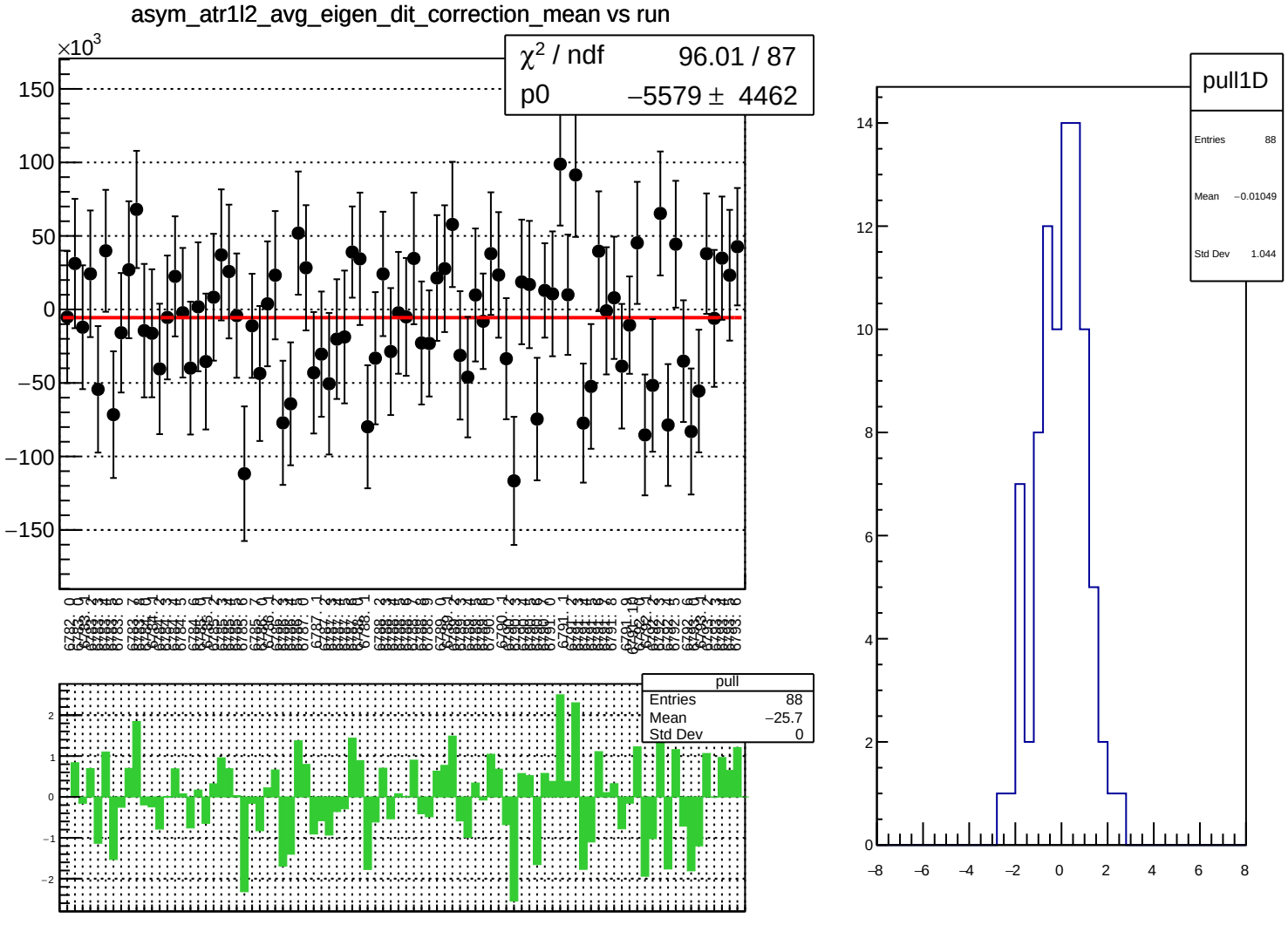

pull1D
Entries 88
Mean −0.01049
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

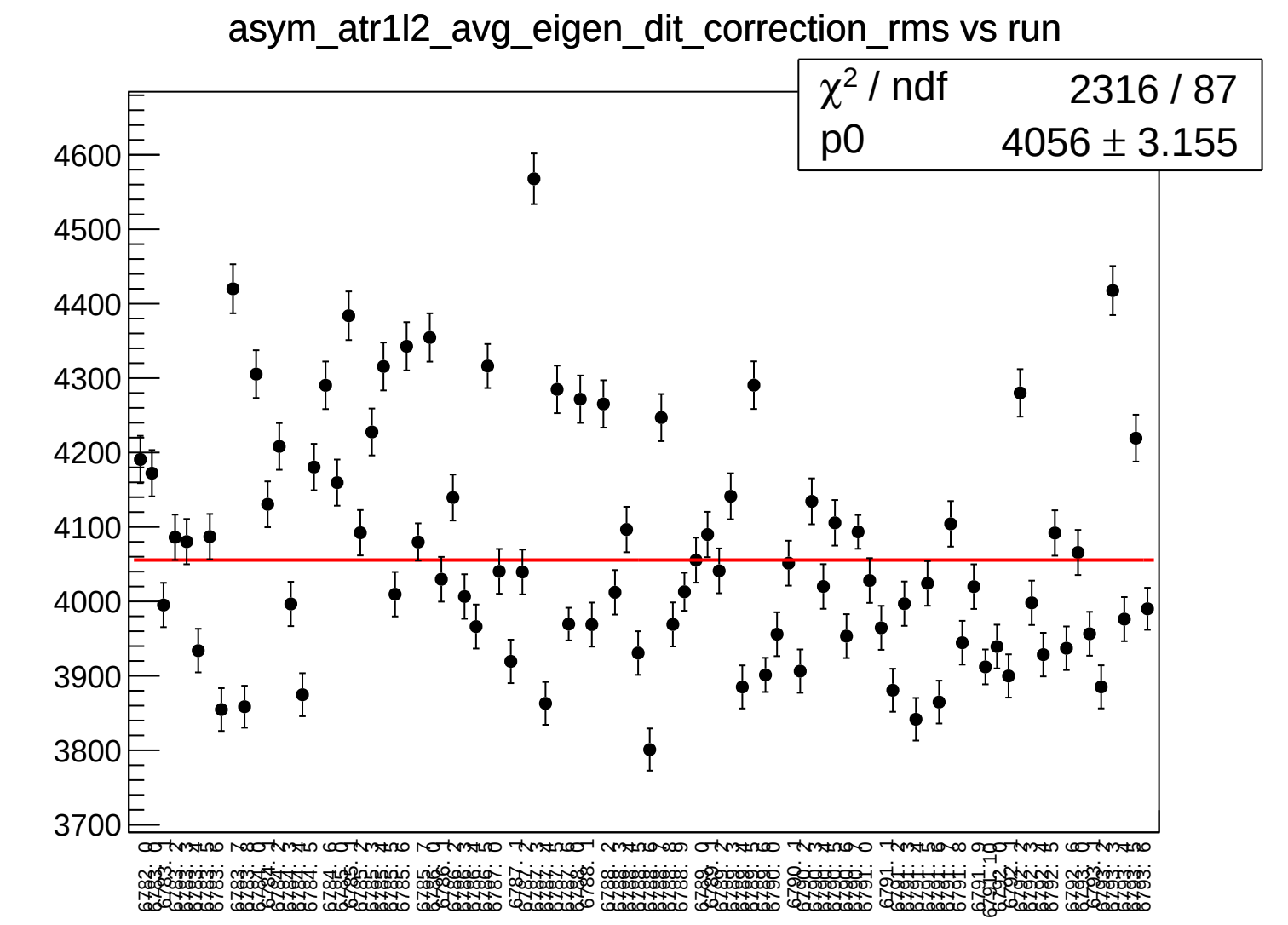

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2316 / 87
p0 4056 ± 3.155
4600
4500
4400
4300
4200
4100
4000
3900
3800
3700

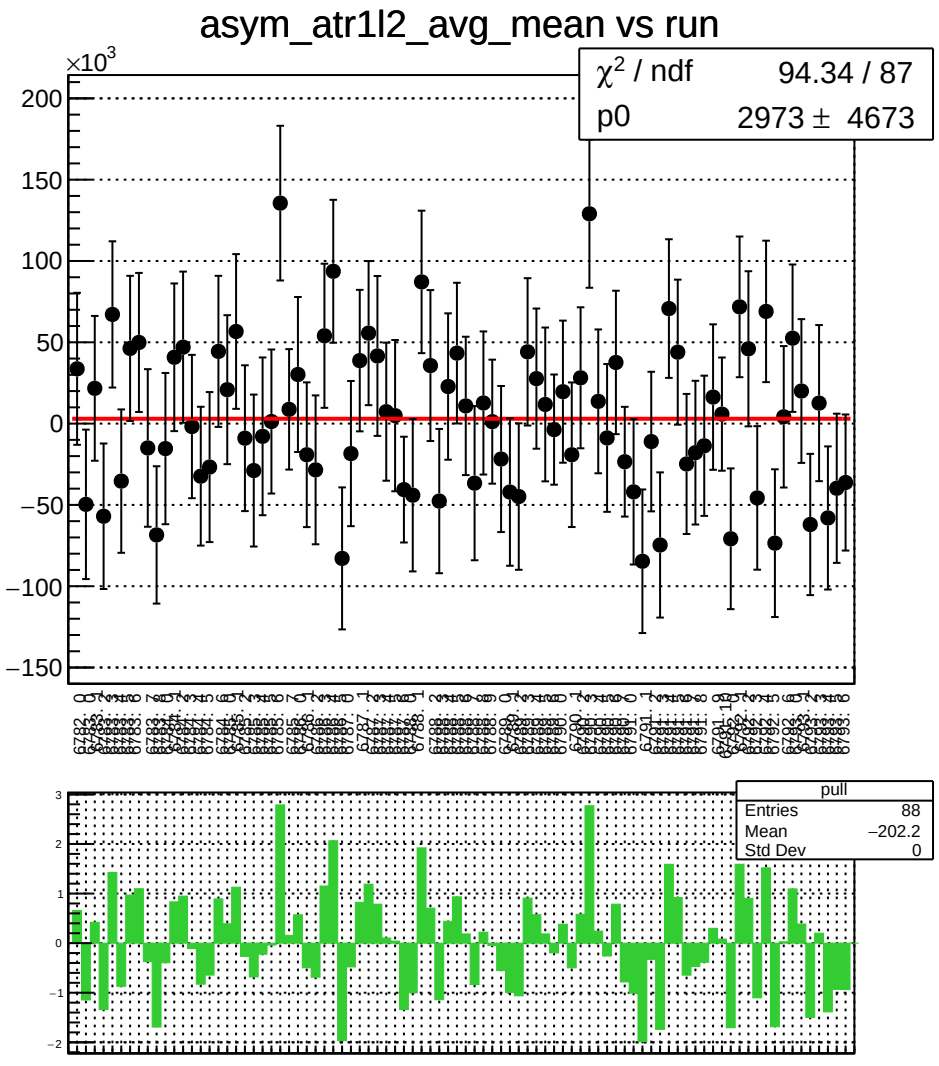

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.96 / 87
p0 −2635 ± 2054
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −717.7
Std Dev 0
3
2
1
0
−1

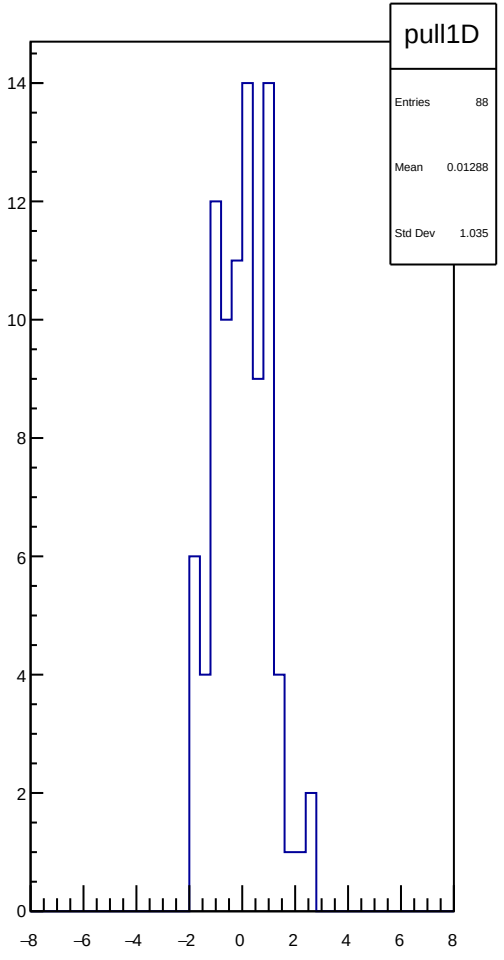

pull1D
Entries 88
Mean 0.007177
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

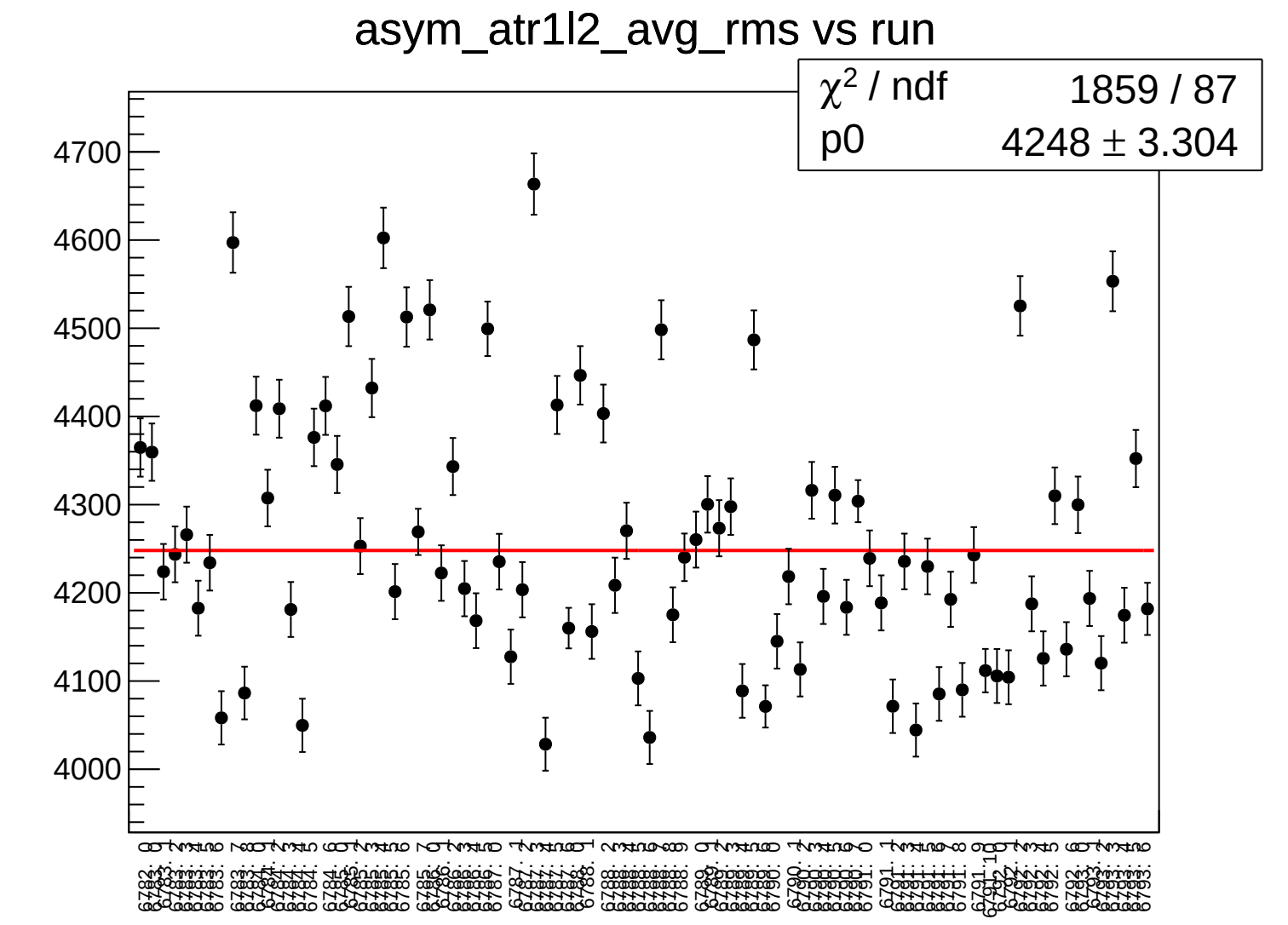

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 100.4 / 87
p0 1868 ± 1.452
1940
1920
1900
1880
1860
1840
1820

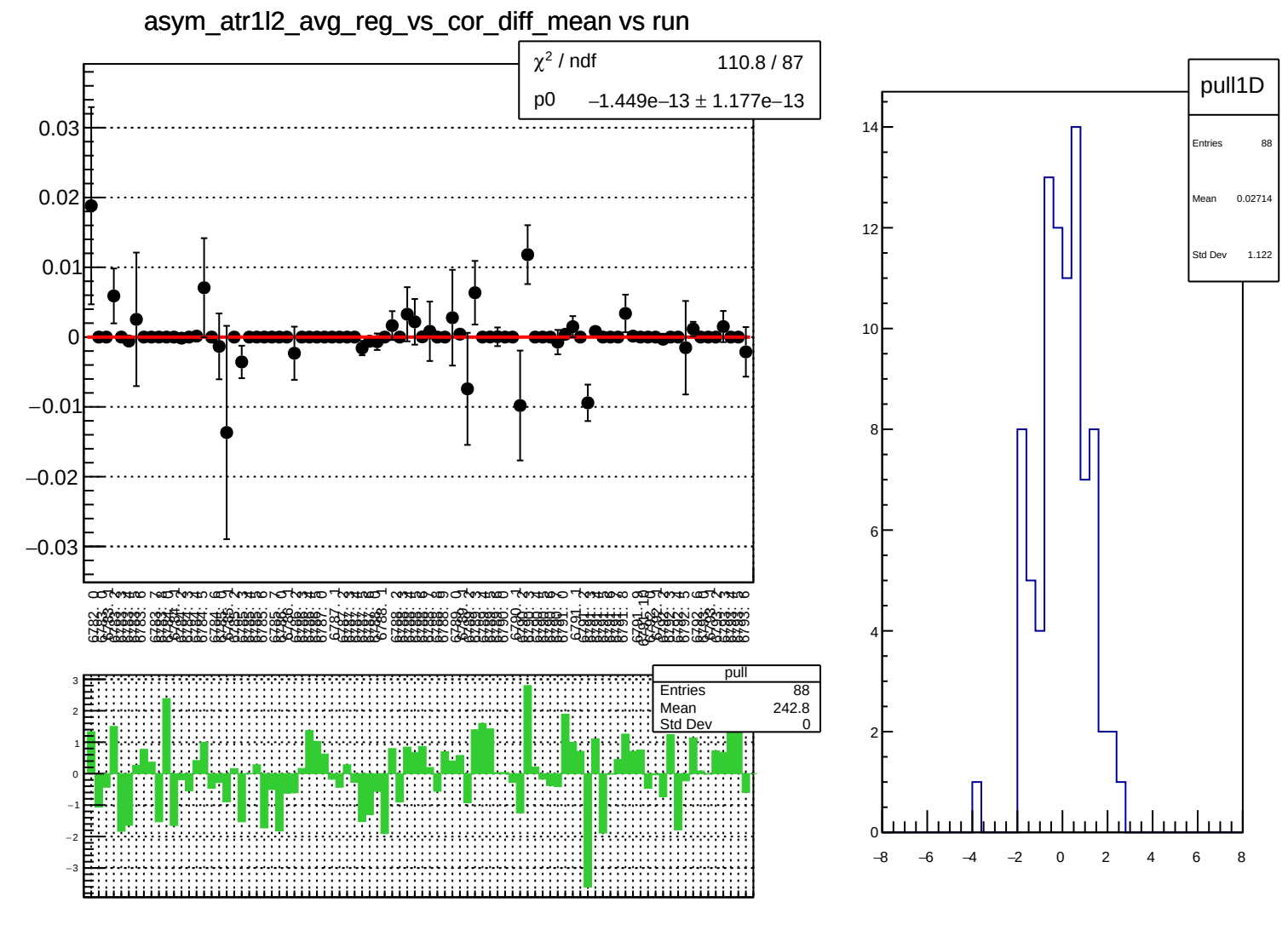

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.01 / 87
p0 −5579 ± 4462
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −25.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01049
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

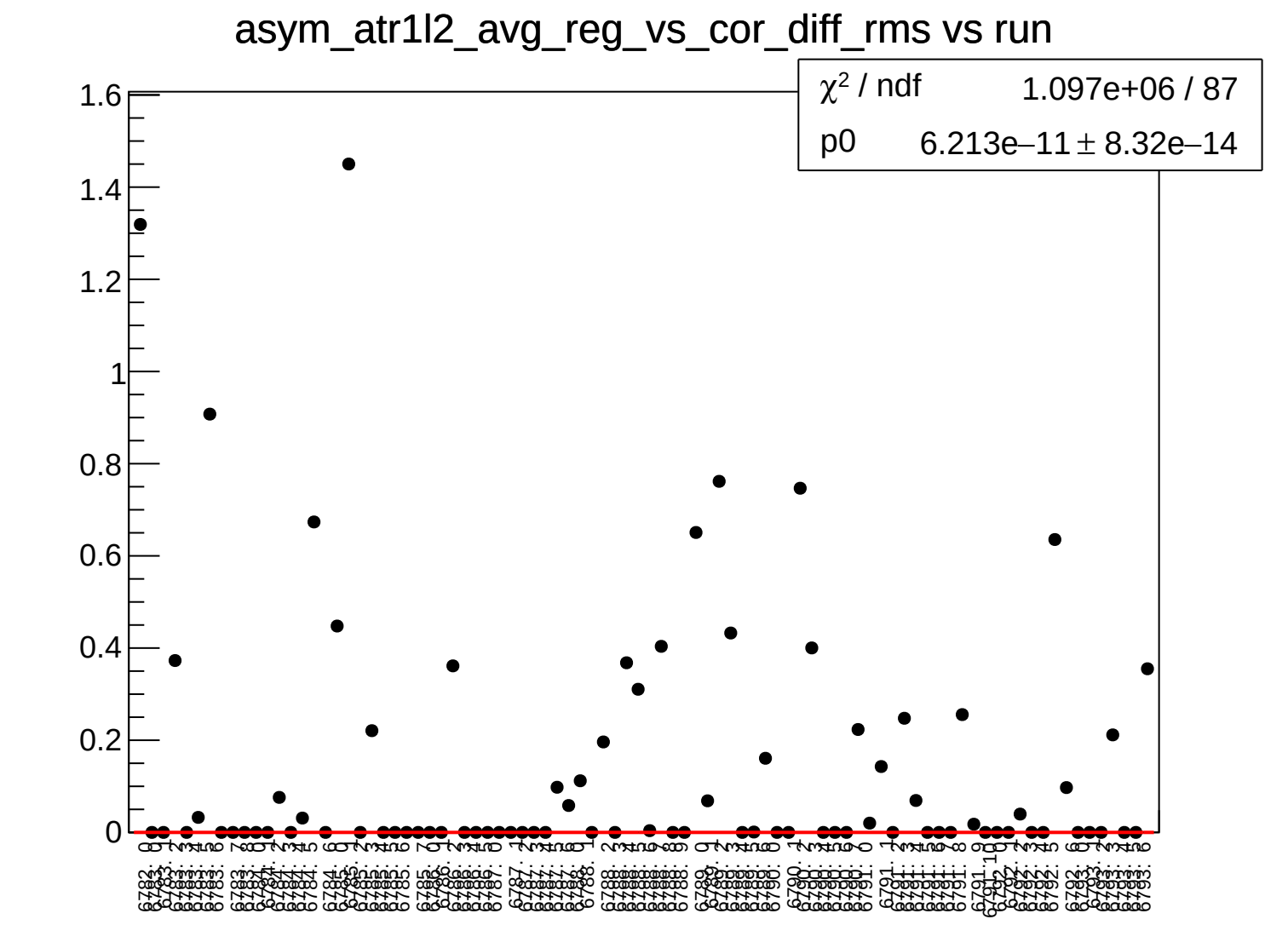

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2316 / 87
p0 4056 ± 3.155
4600
4500
4400
4300
4200
4100
4000
3900
3800
3700

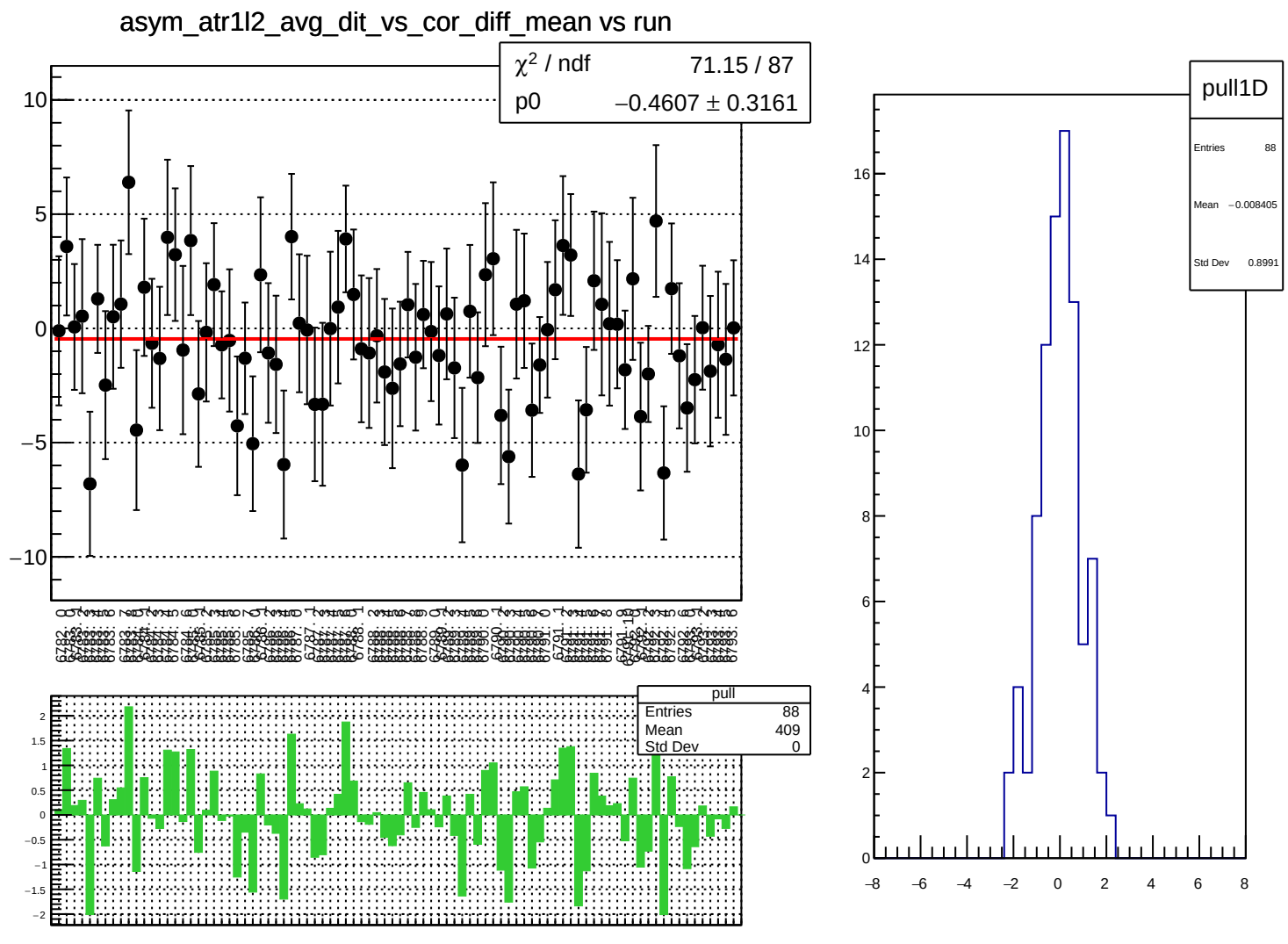

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 94.34 / 87
p0 2973 ± 4673
pull
Entries 88
Mean −202.2
Std Dev 0

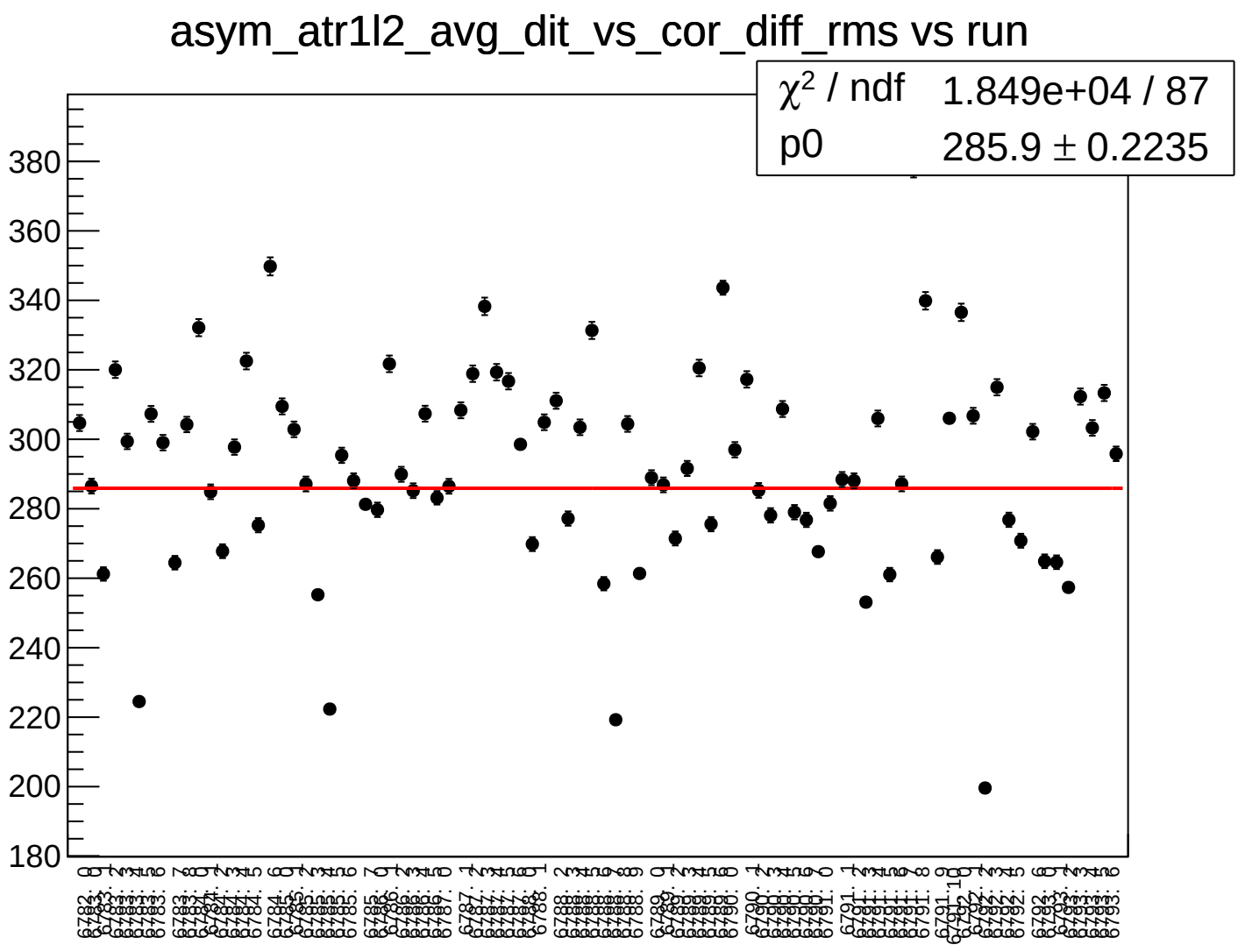

pull1D
Entries 88
Mean 0.01288
Std Dev 1.035

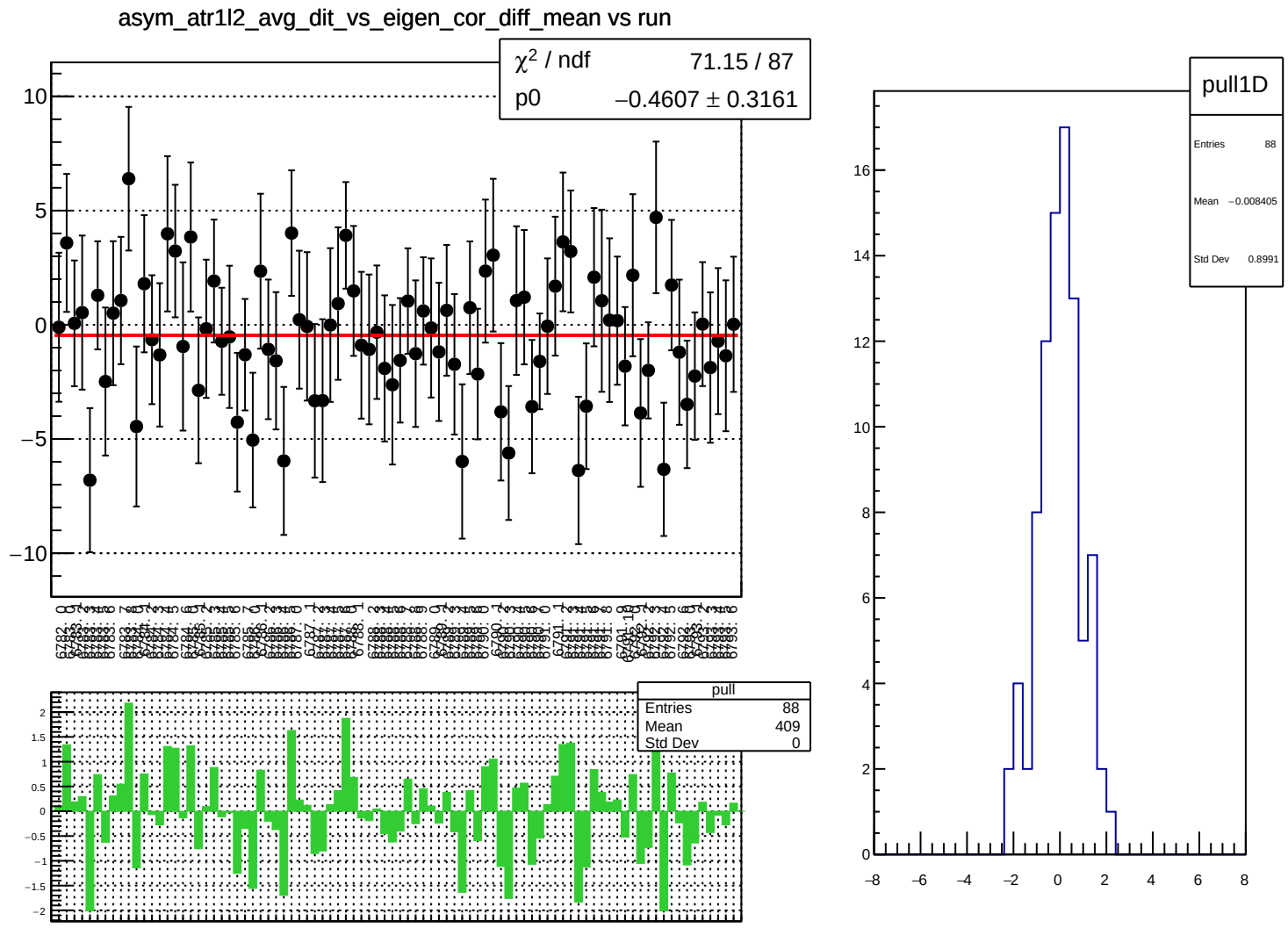

asym_atr1l2_avg_rms vs run
χ² / ndf 1859 / 87
p0 4248 ± 3.304
4700
4600
4500
4400
4300
4200
4100
4000

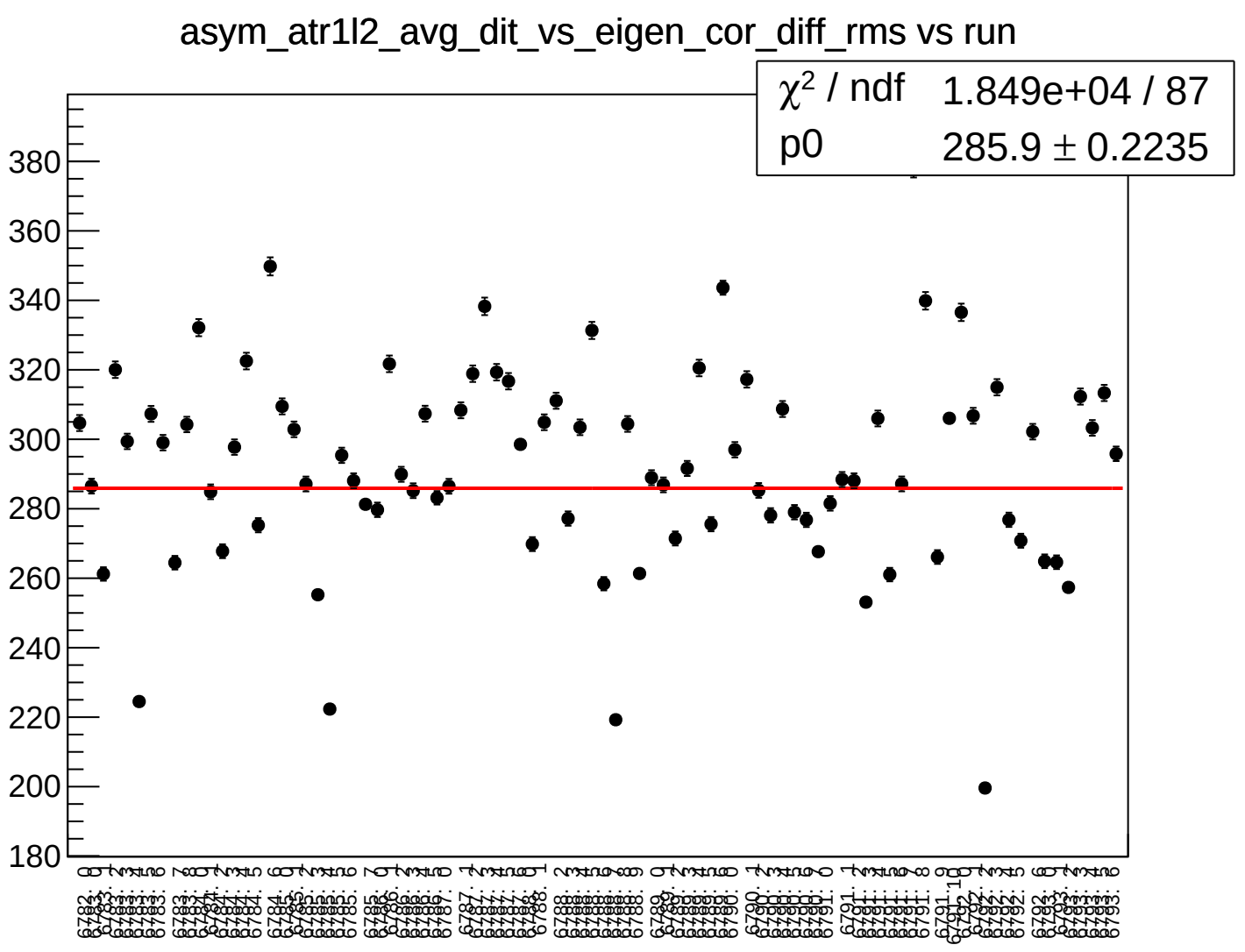

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.8 / 87
p0 −1.449e−13 ± 1.177e−13
pull
Entries 88
Mean 242.8
Std Dev 0
pull1D
Entries 88
Mean 0.02714
Std Dev 1.122

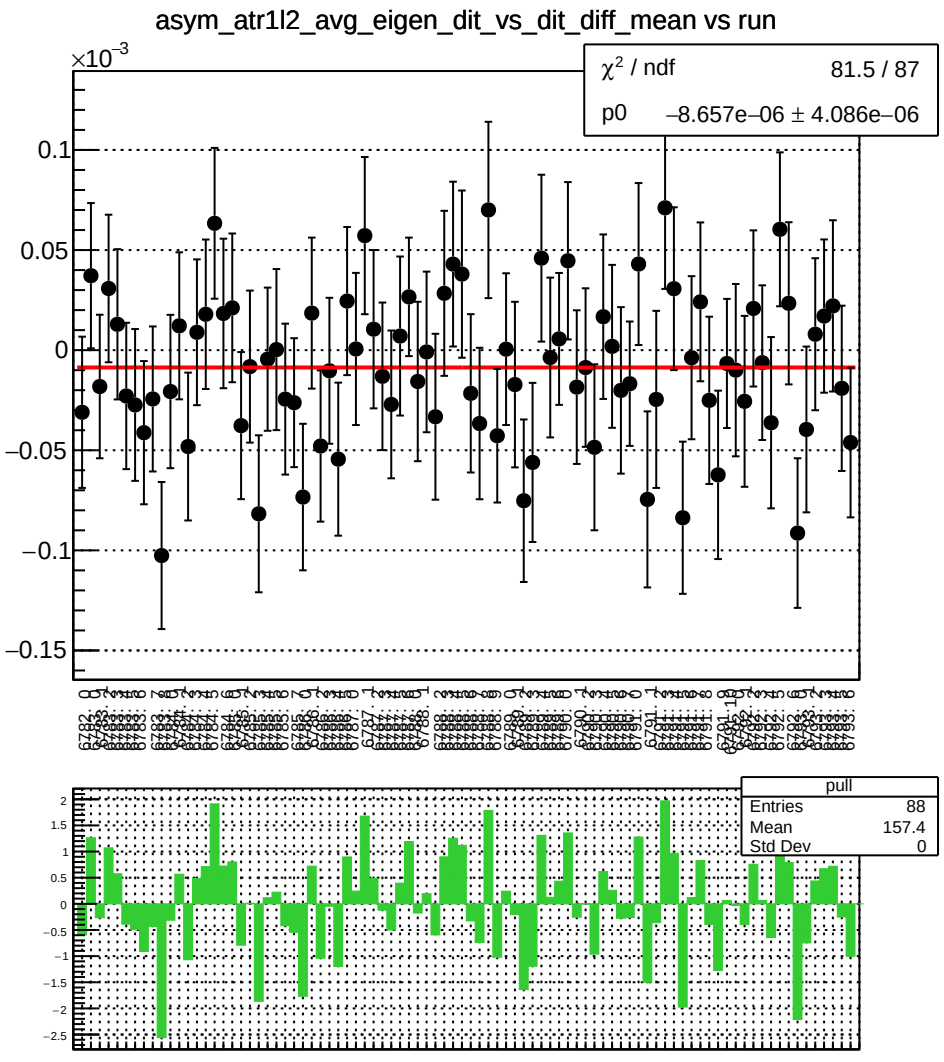

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 87
p0 6.213e−11 ± 8.32e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

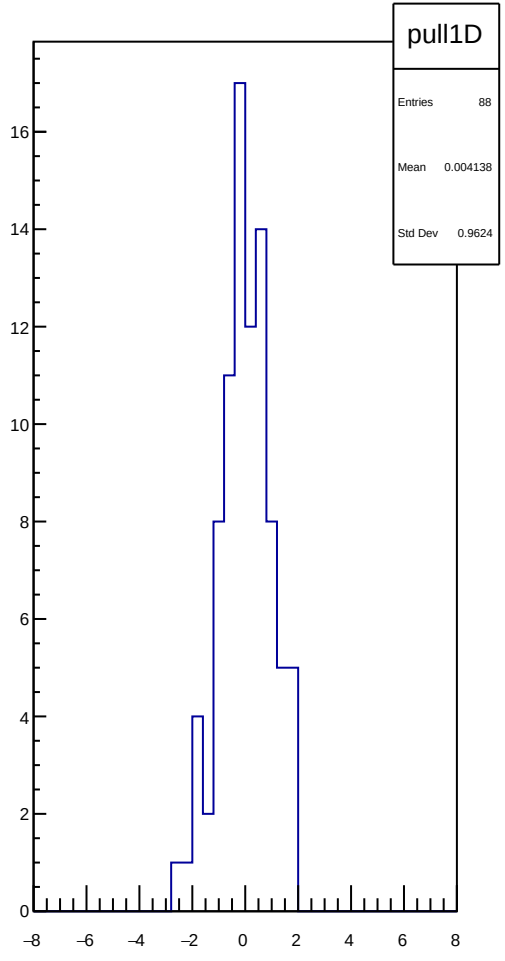

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.15 / 87
p0 −0.4607 ± 0.3161
pull
Entries 88
Mean 409
Std Dev 0
pull1D
Entries 88
Mean −0.008405
Std Dev 0.8991

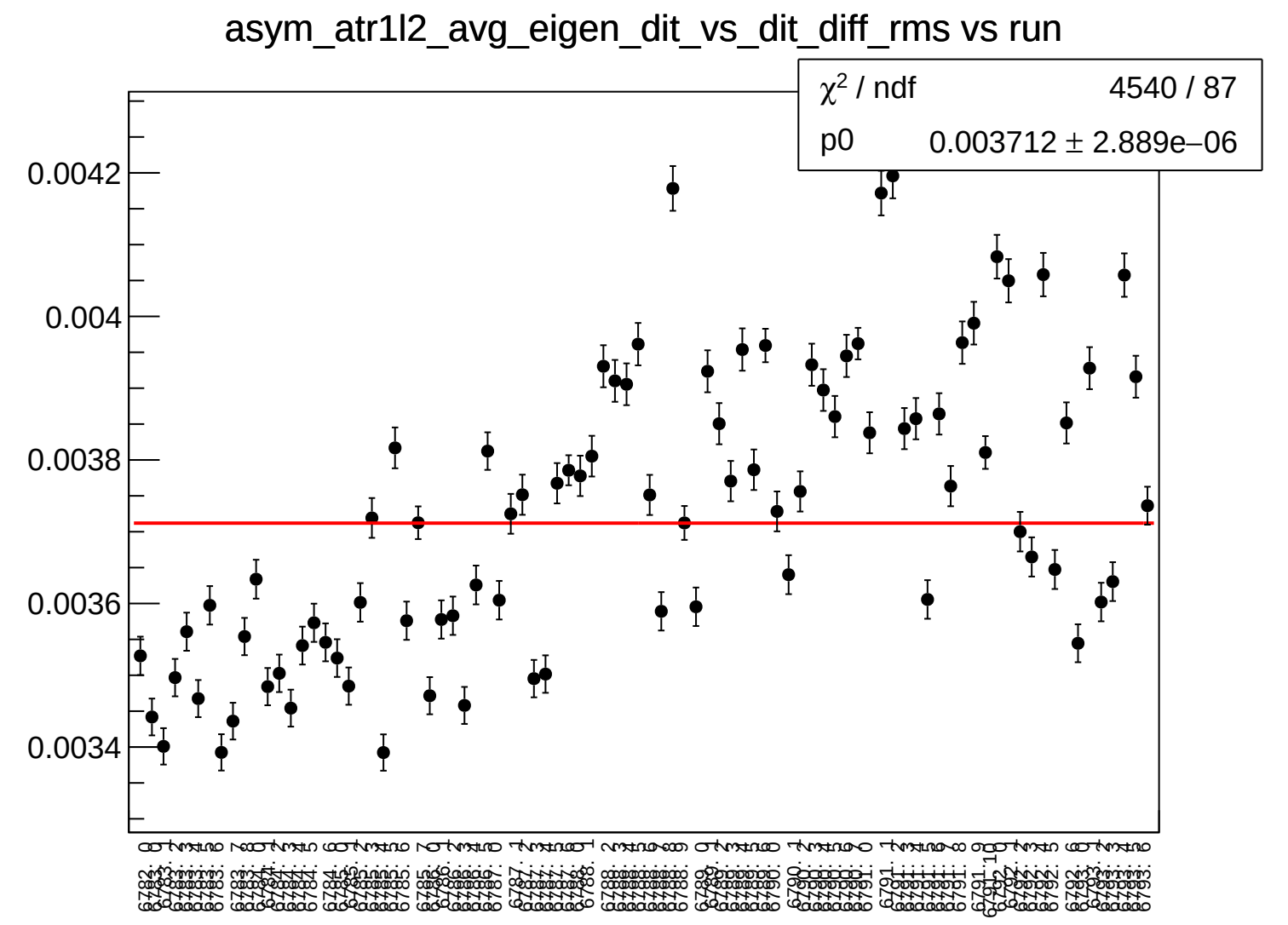

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.849e+04 / 87
p0 285.9 ± 0.2235
380
360
340
320
300
280
260
240
220
200
180

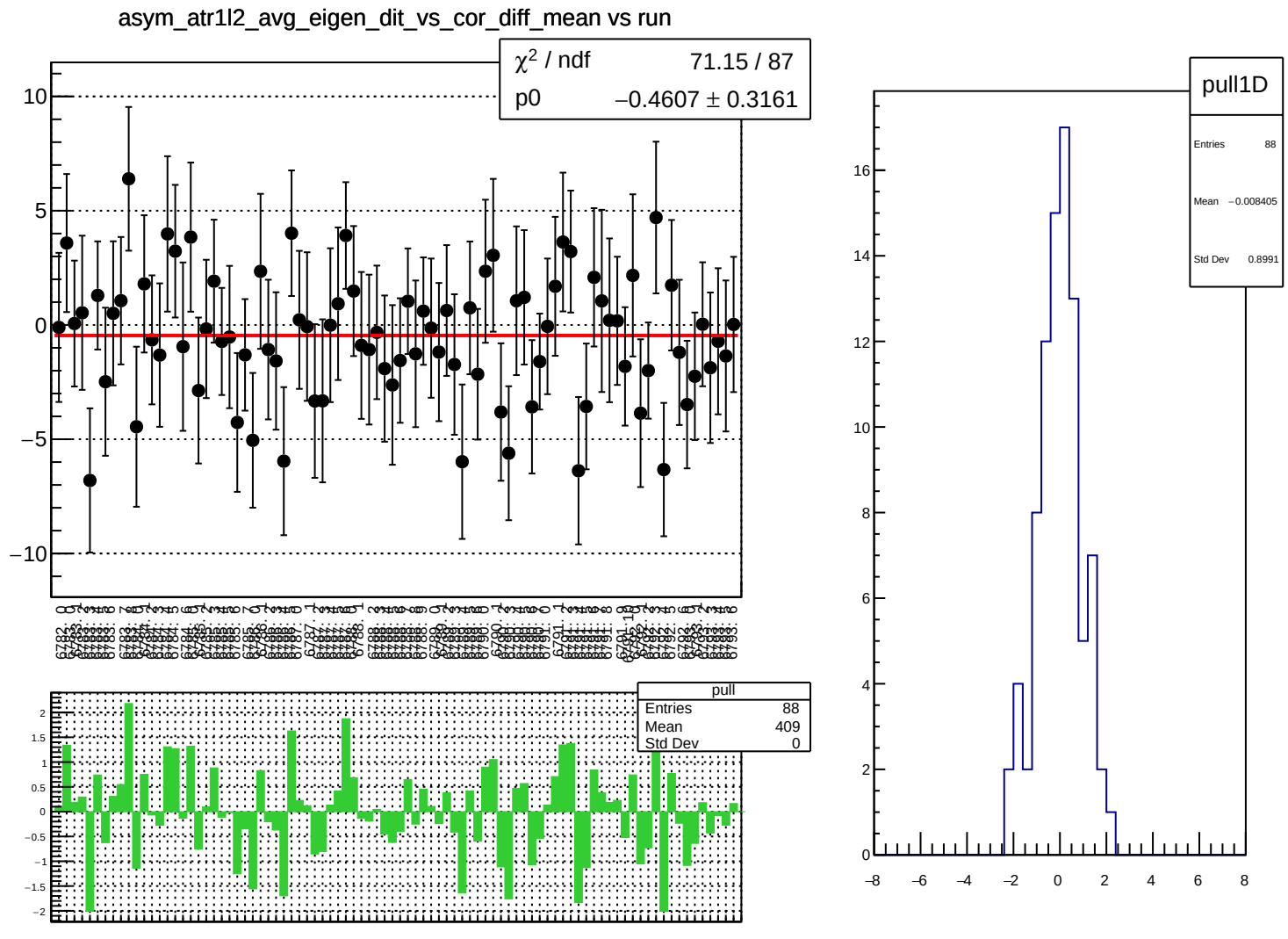

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.15 / 87
p0 −0.4607 ± 0.3161
pull
Entries 88
Mean 409
Std Dev 0
pull1D
Entries 88
Mean −0.008405
Std Dev 0.8991

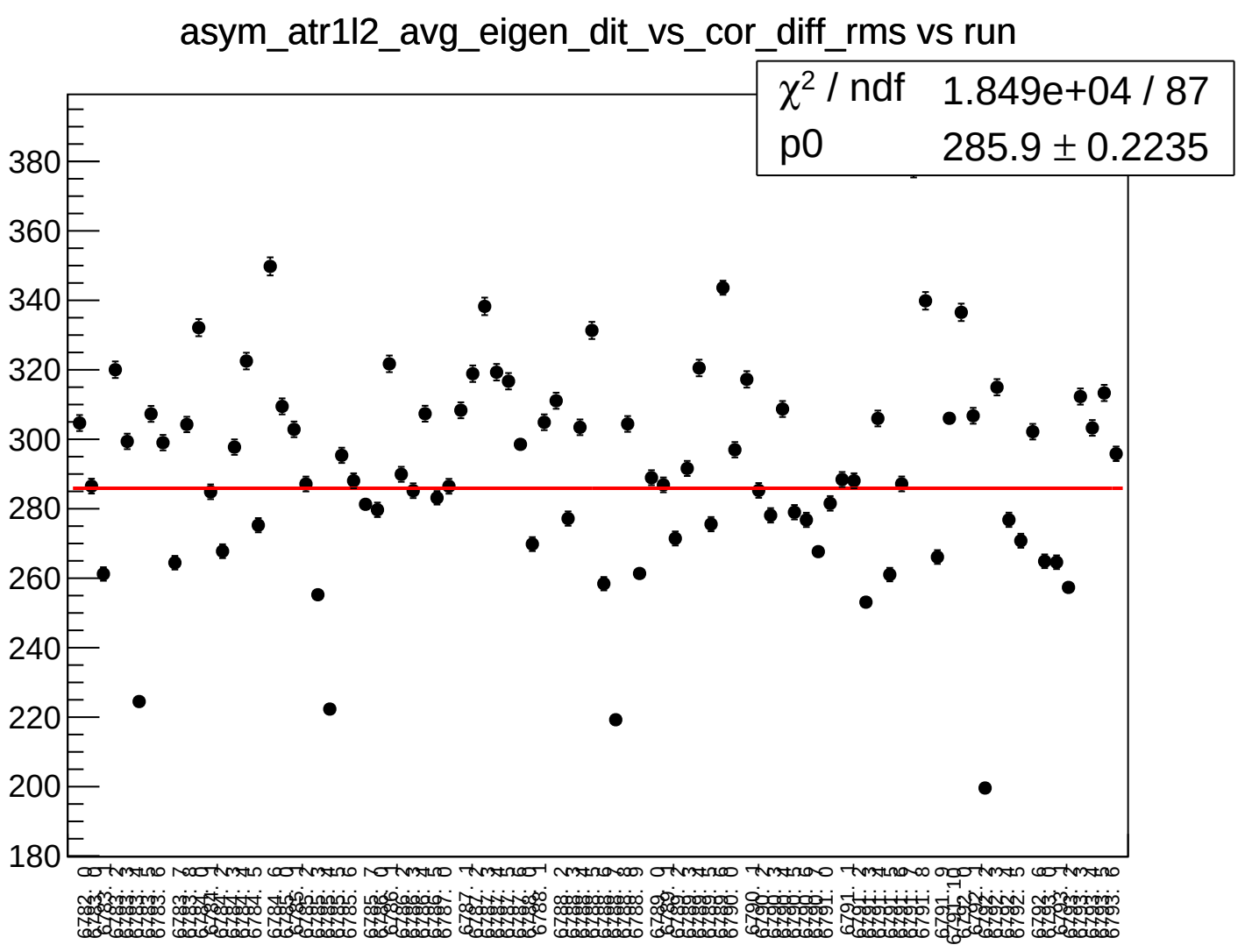

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.849e+04 / 87
p0 285.9 ± 0.2235
380
360
340
320
300
280
260
240
220
200
180

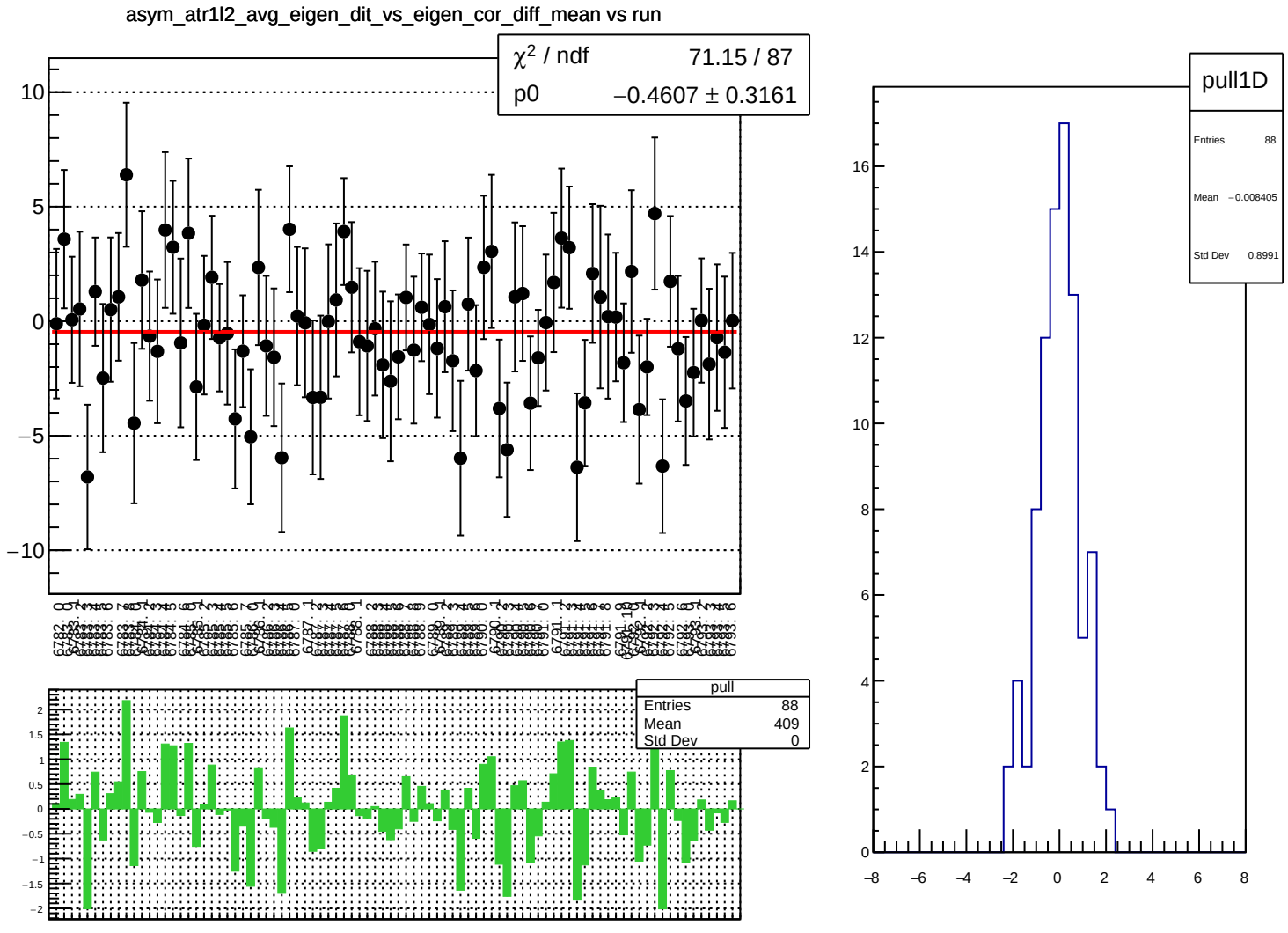

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.5 / 87
p0 −8.657e−06 ± 4.086e−06
pull
Entries 88
Mean 157.4
Std Dev 0

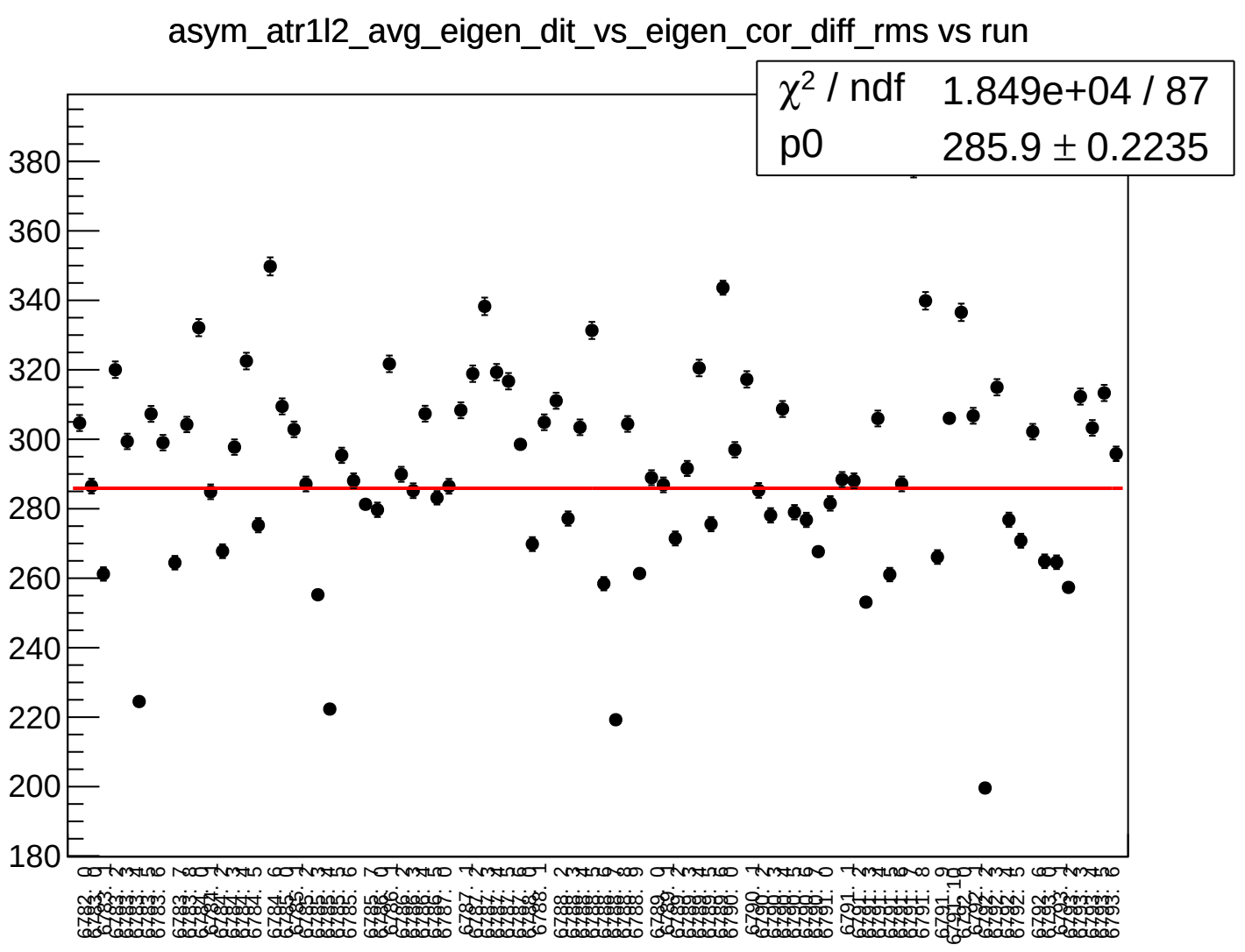

pull1D
Entries 88
Mean 0.004138
Std Dev 0.9624

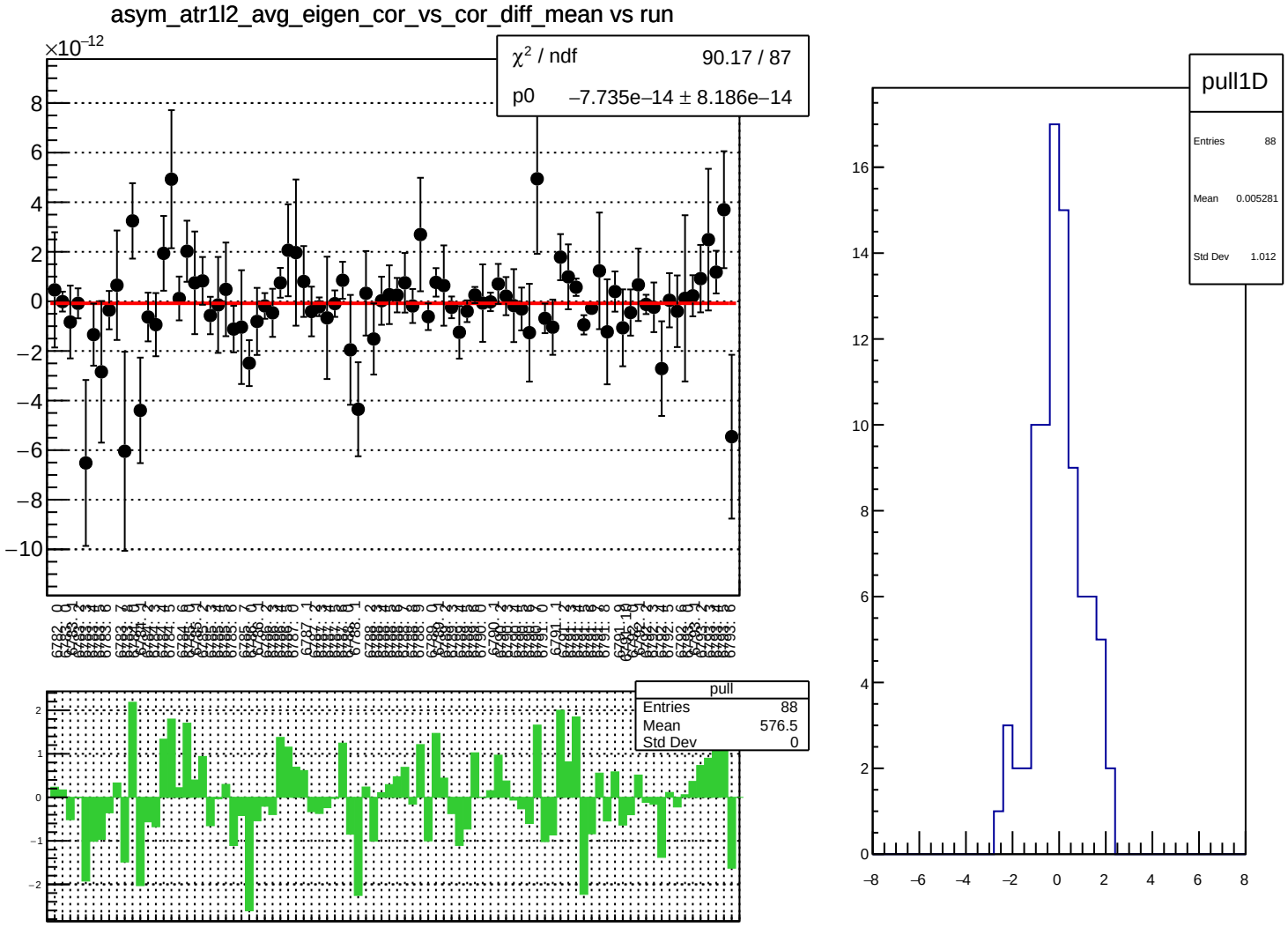

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4540 / 87
p0 0.003712 ± 2.889e−06
0.0042
0.004
0.0038
0.0036
0.0034

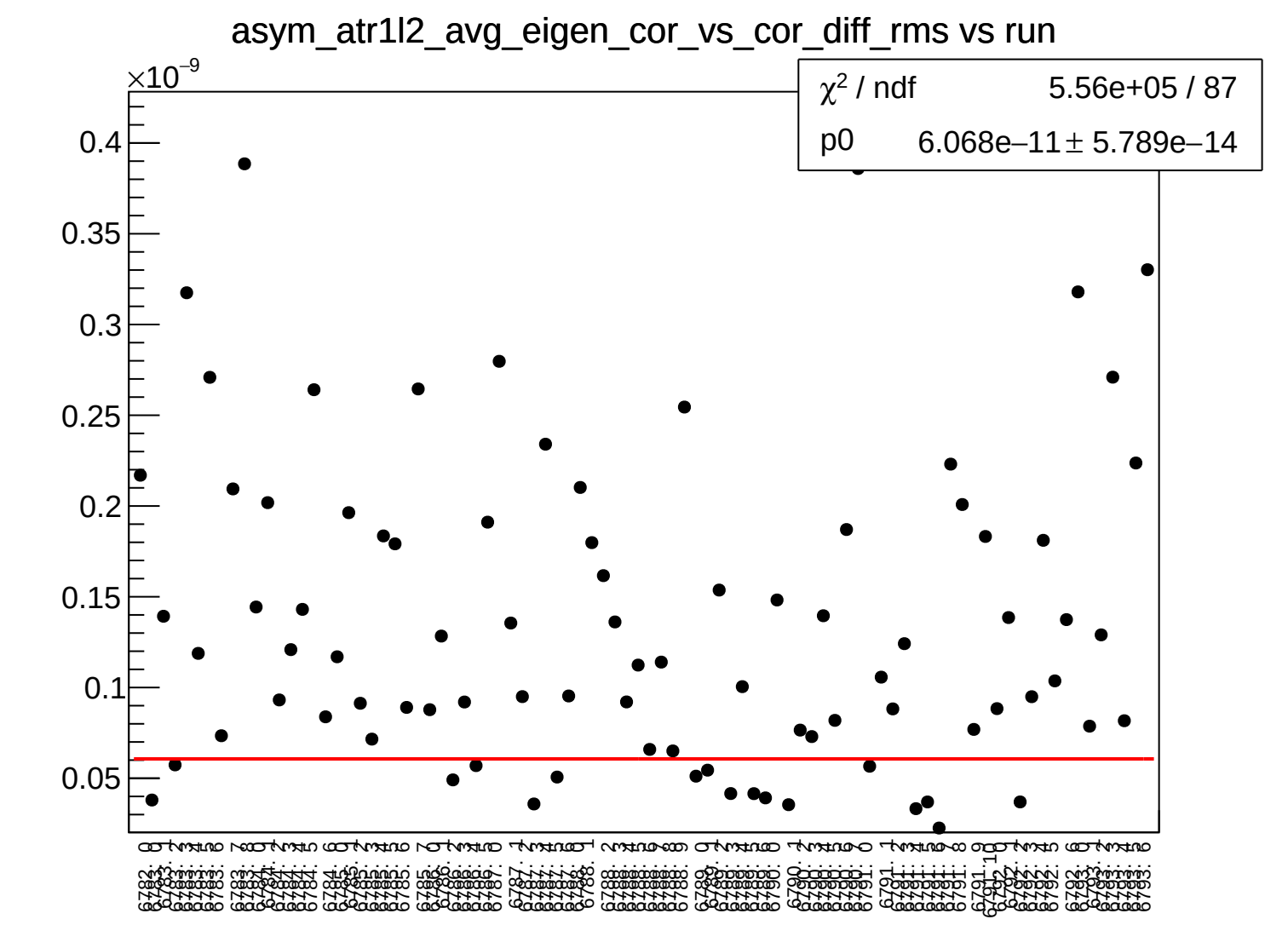

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.15 / 87
p0 −0.4607 ± 0.3161
pull
Entries 88
Mean 409
Std Dev 0
pull1D
Entries 88
Mean −0.008405
Std Dev 0.8991

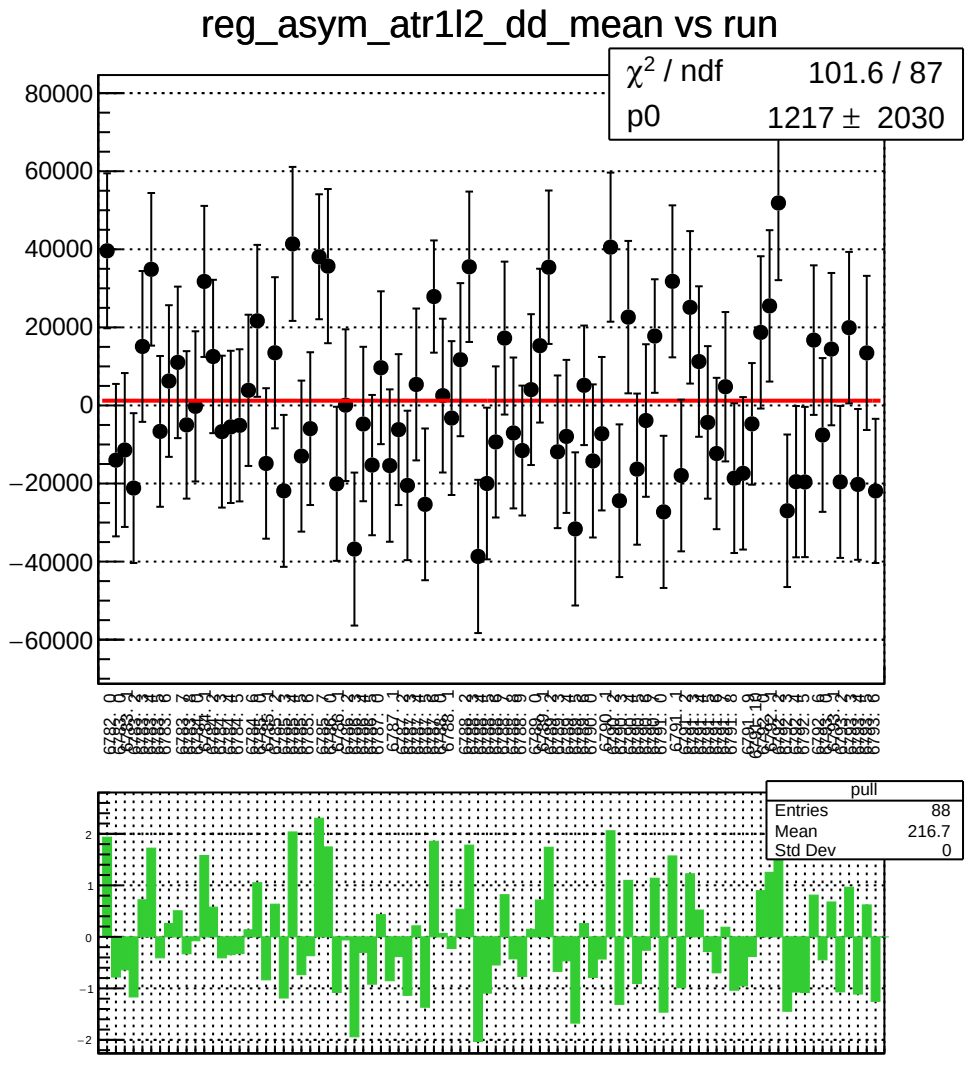

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.849e+04 / 87
p0 285.9 ± 0.2235
380
360
340
320
300
280
260
240
220
200
180

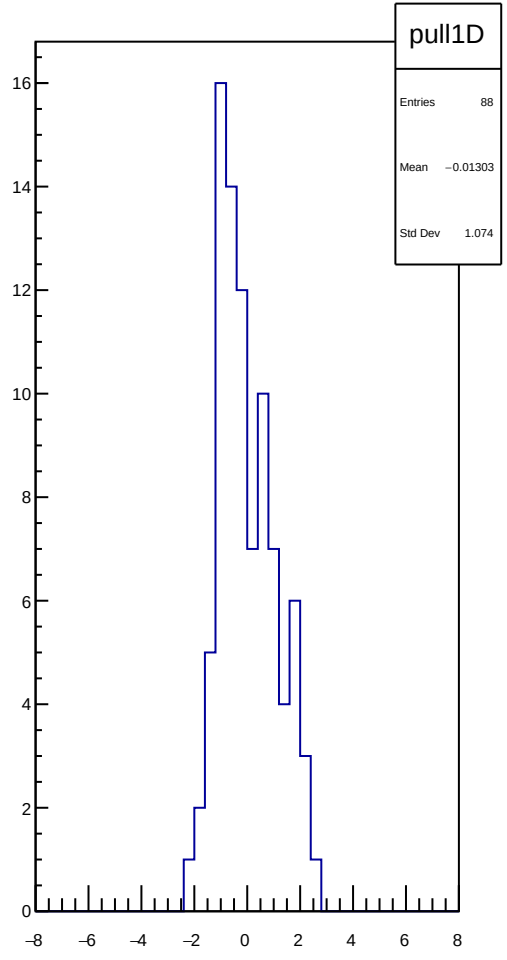

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.15 / 87
p0 −0.4607 ± 0.3161
pull
Entries 88
Mean 409
Std Dev 0
pull1D
Entries 88
Mean −0.008405
Std Dev 0.8991

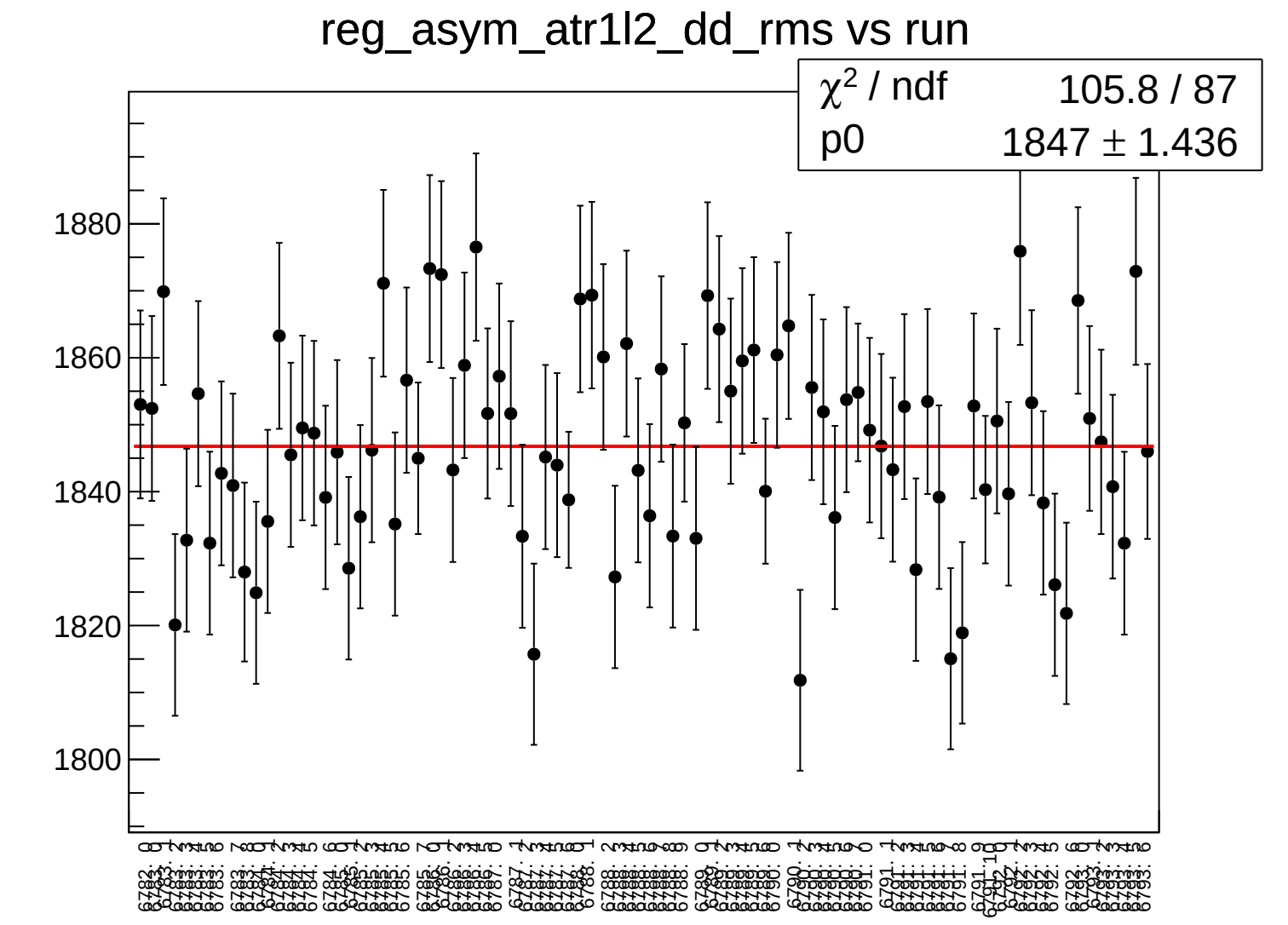

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.849e+04 / 87
p0 285.9 ± 0.2235
380
360
340
320
300
280
260
240
220
200
180

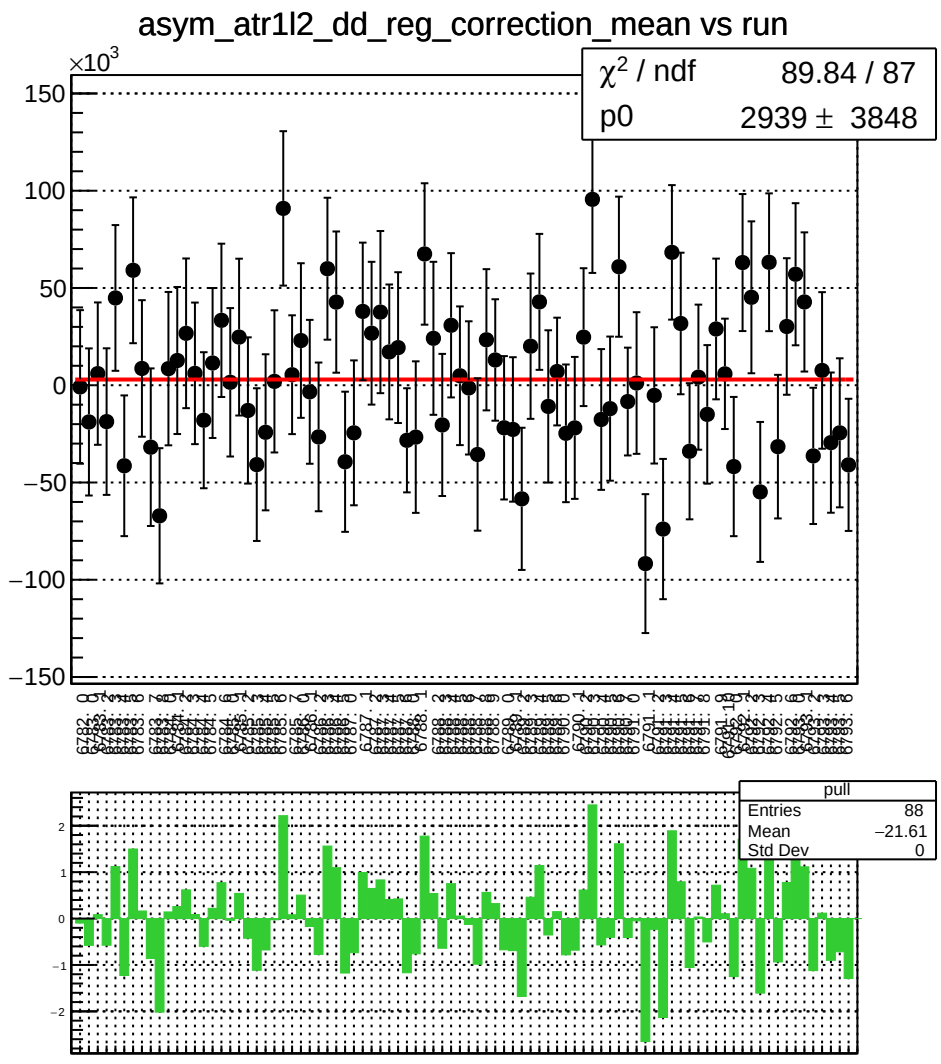

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 90.17 / 87
p0 −7.735e−14 ± 8.186e−14
pull
Entries 88
Mean 576.5
Std Dev 0
pull1D
Entries 88
Mean 0.005281
Std Dev 1.012

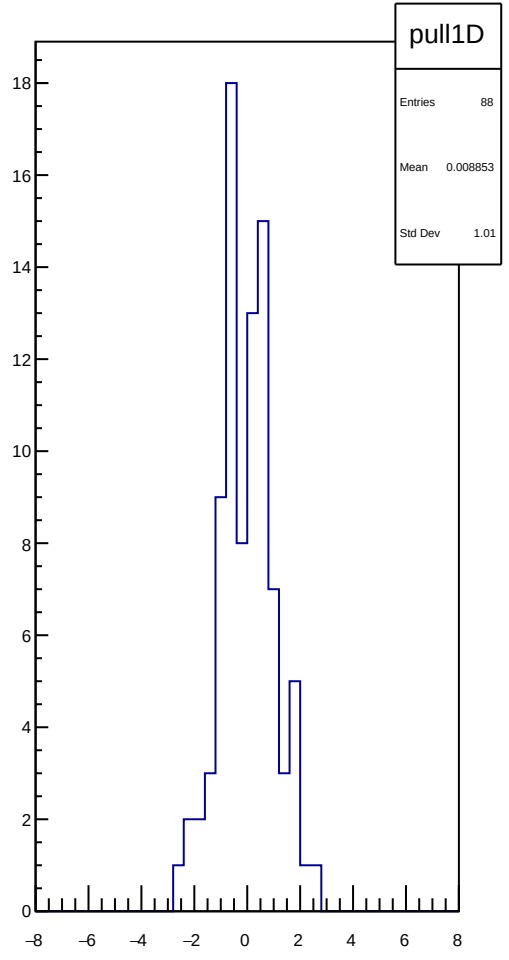

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.56e+05 / 87
p0 6.068e−11 ± 5.789e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

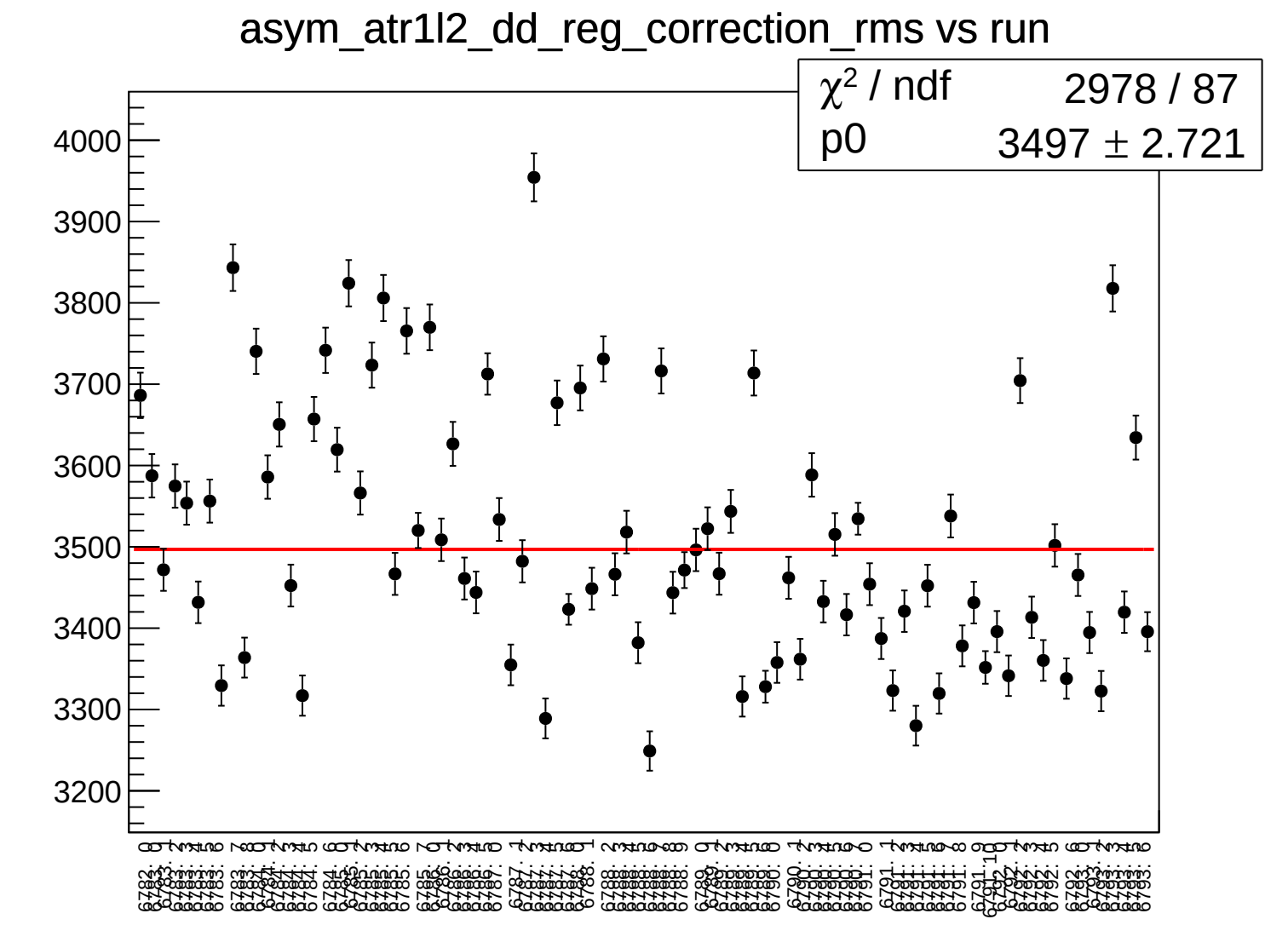

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 87
p0 1217 ± 2030
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 216.7
Std Dev 0
2
1
0
−1
−2

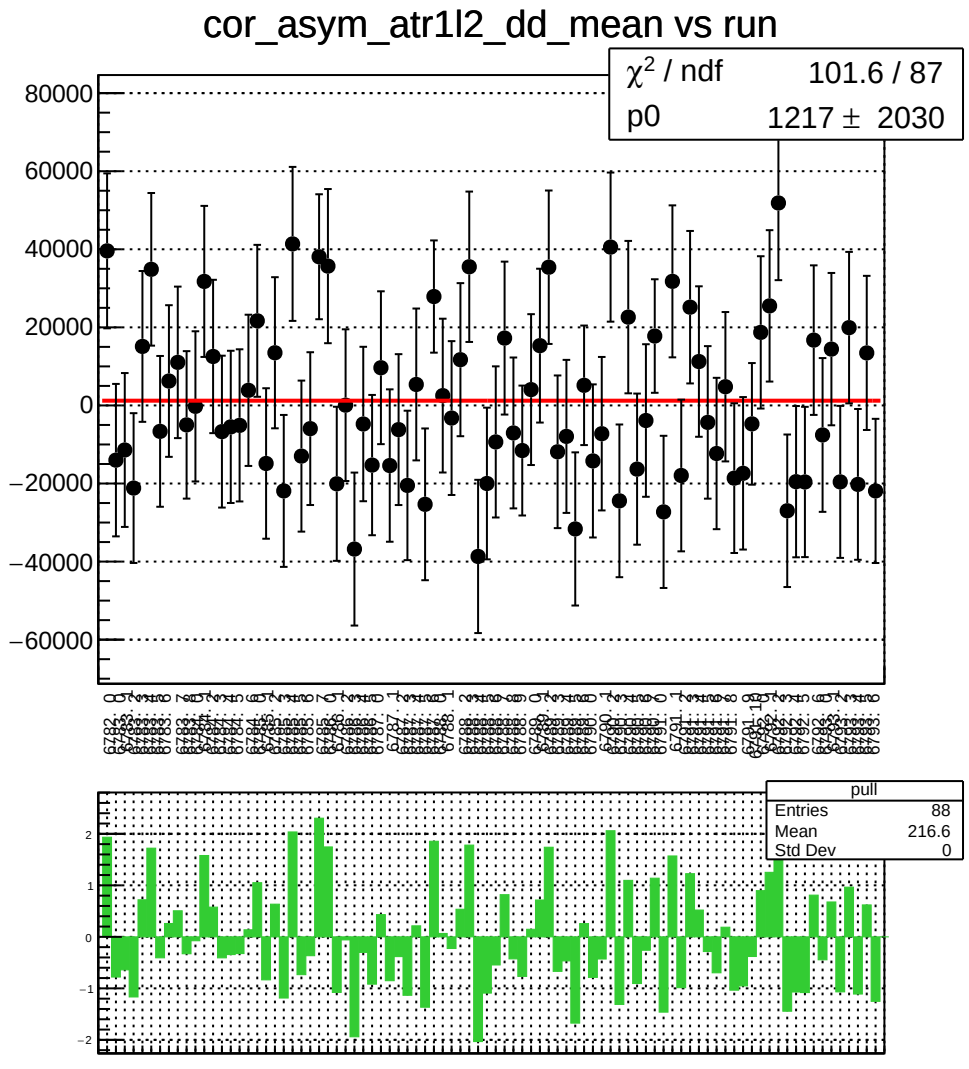

pull1D
Entries 88
Mean −0.01303
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

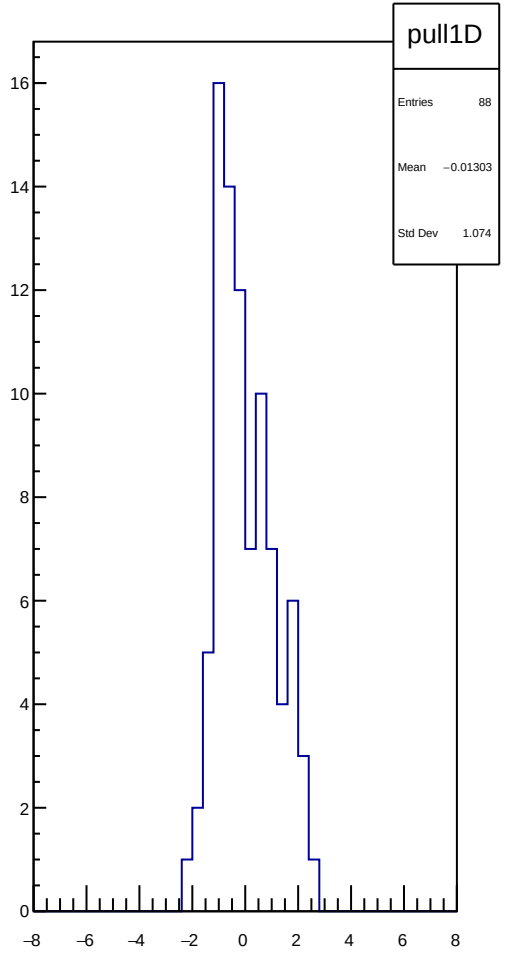

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 105.8 / 87
p0 1847 ± 1.436
1880
1860
1840
1820
1800

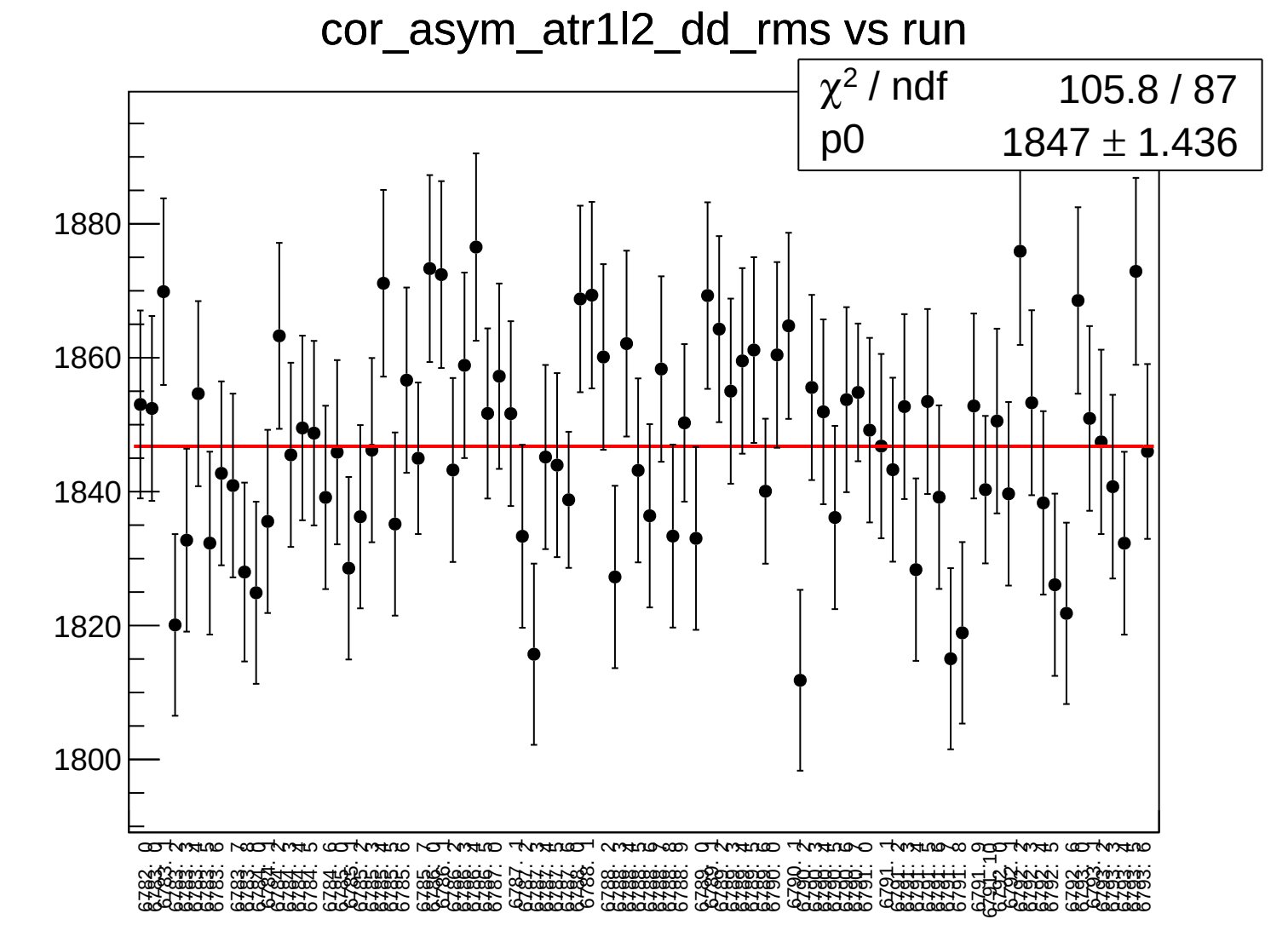

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.84 / 87
p0 2939 ± 3848
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −21.61
Std Dev 0
2
1
0
−1
−2

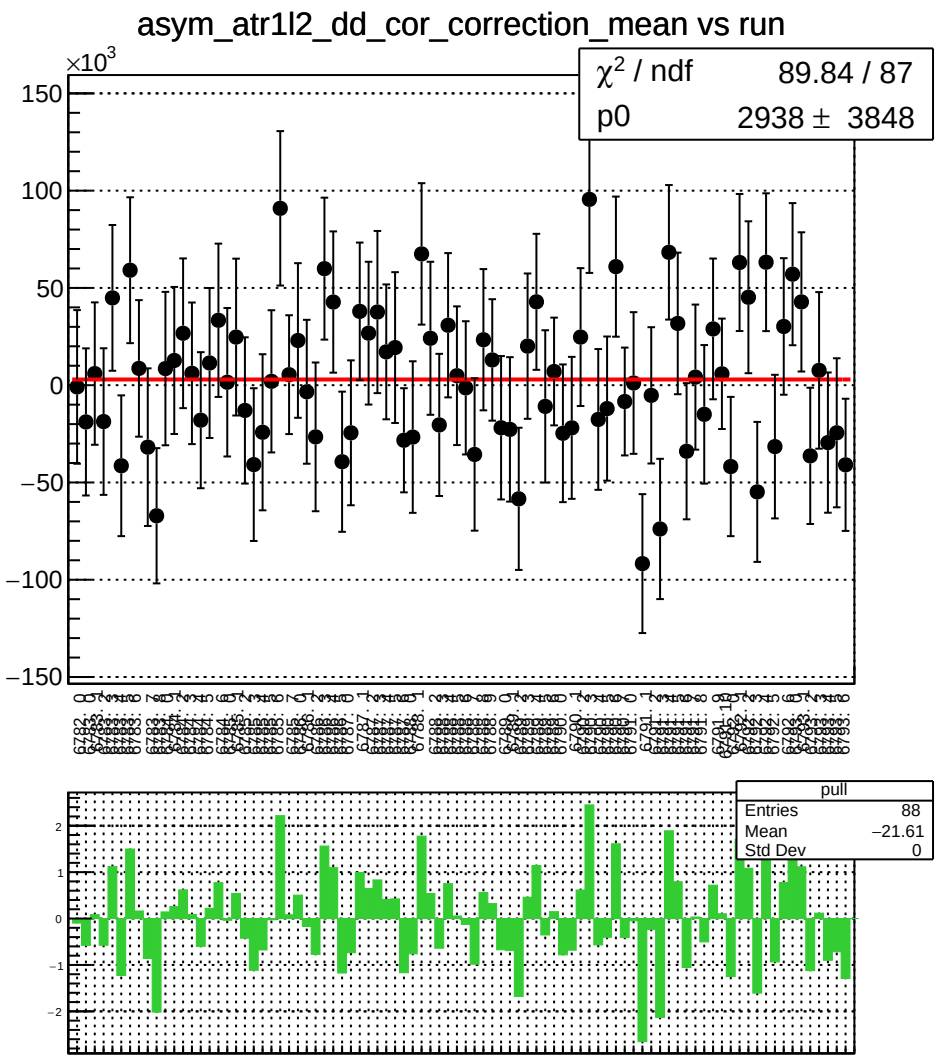

pull1D
Entries 88
Mean 0.008853
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

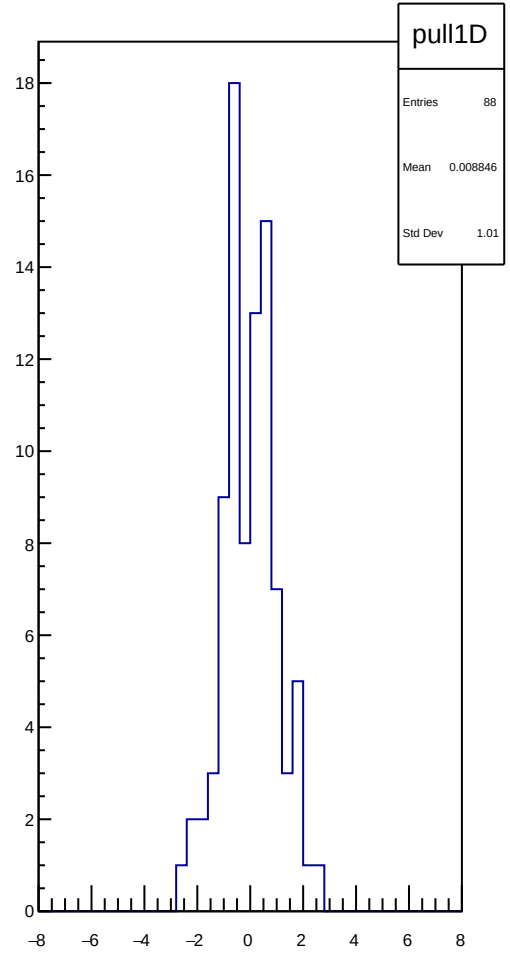

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2978 / 87
p0 3497 ± 2.721
4000
3900
3800
3700
3600
3500
3400
3300
3200

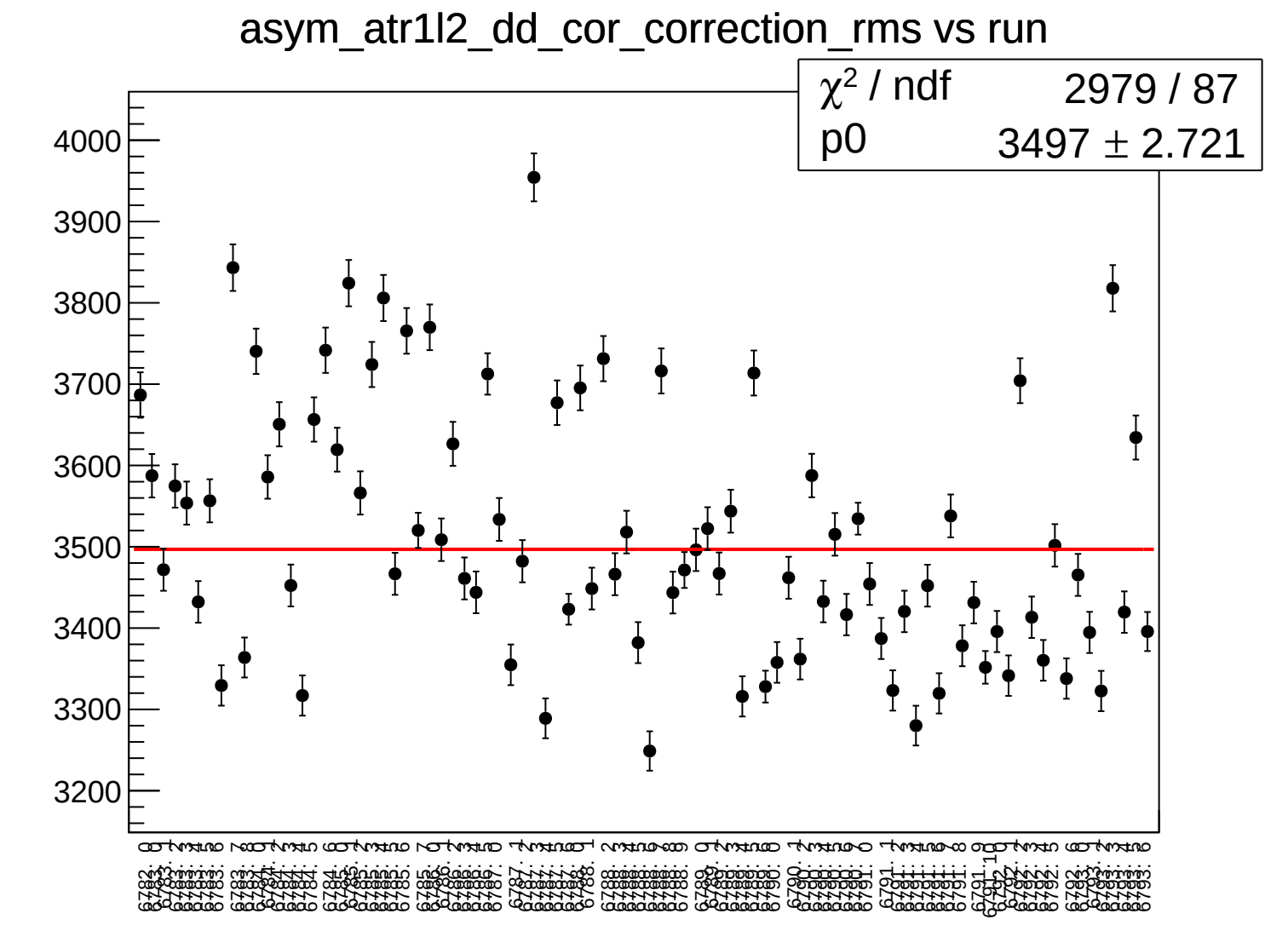

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 87
p0 1217 ± 2030
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 216.6
Std Dev 0
2
1
0
−1
−2

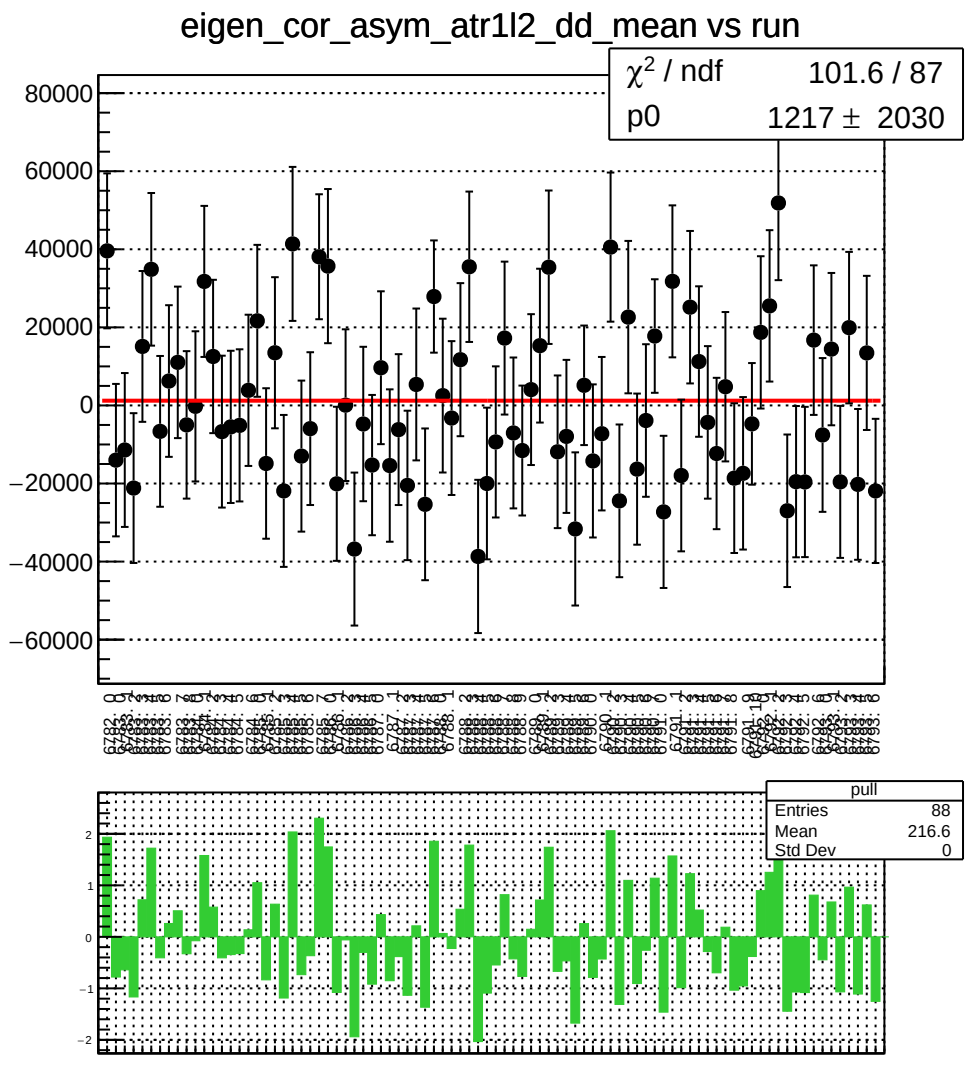

pull1D
Entries 88
Mean −0.01303
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

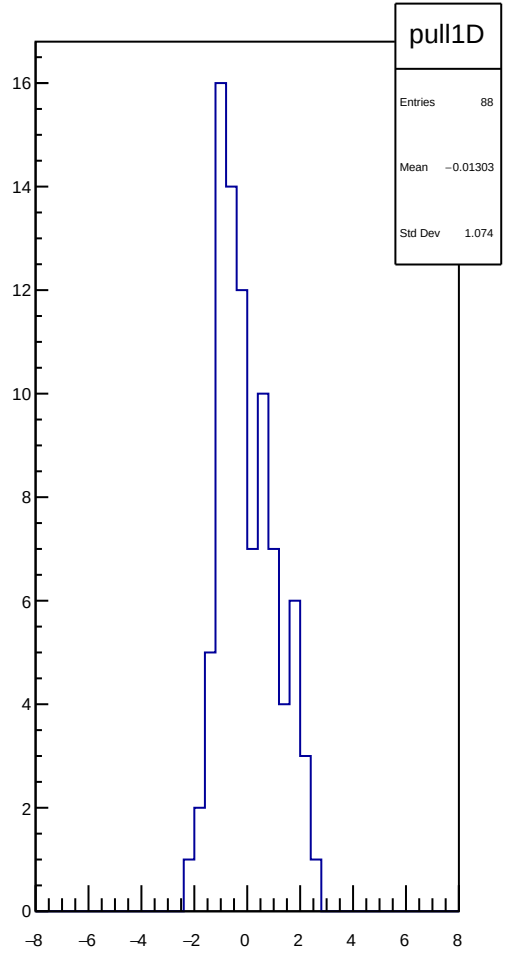

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 105.8 / 87
p0 1847 ± 1.436
1880
1860
1840
1820
1800


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.84 / 87
p0 2938 ± 3848
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −21.61
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.008846
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2979 / 87
p0 3497 ± 2.721
4000
3900
3800
3700
3600
3500
3400
3300
3200


eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 87
p0 1217 ± 2030
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 216.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.01303
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
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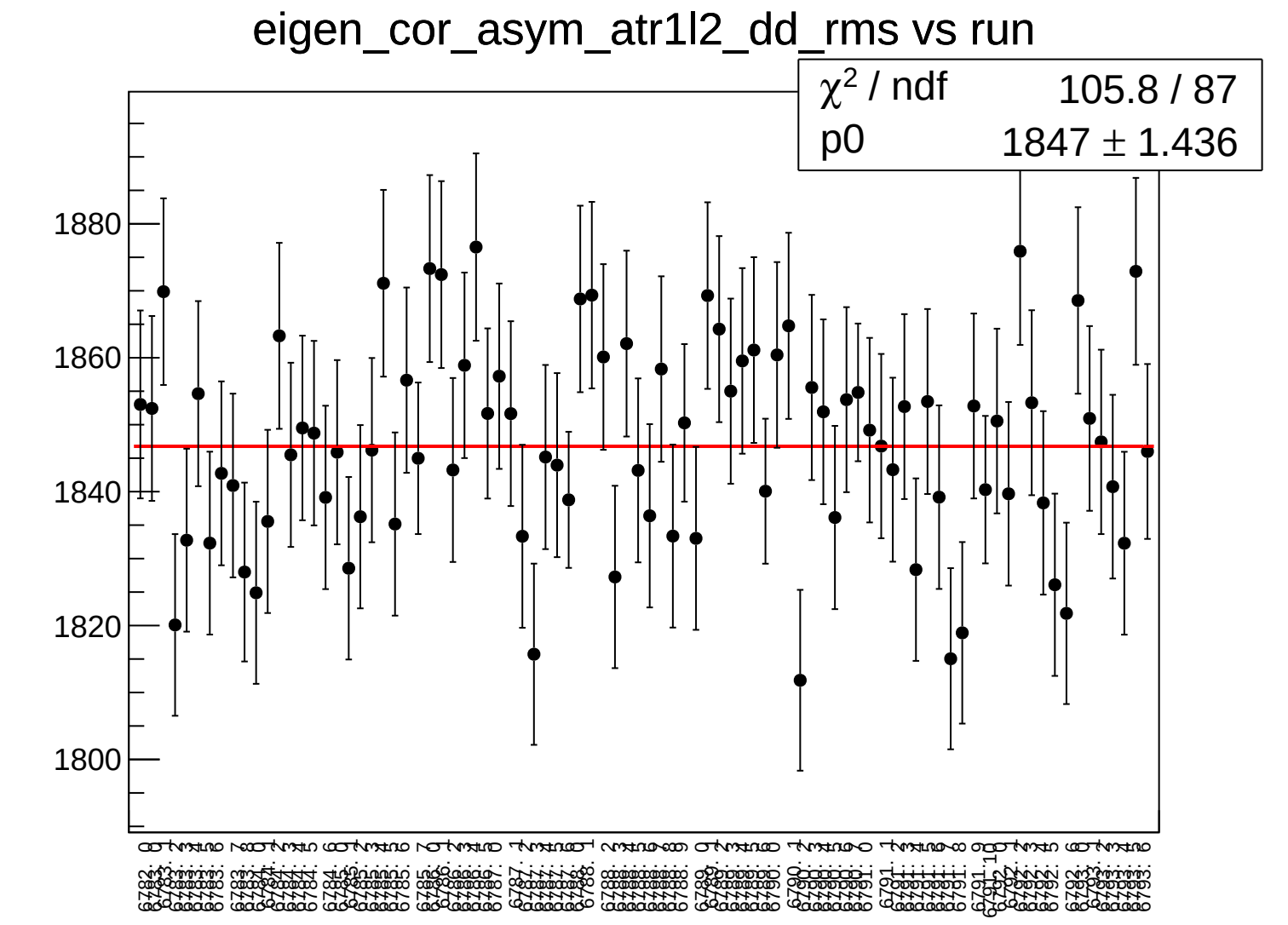
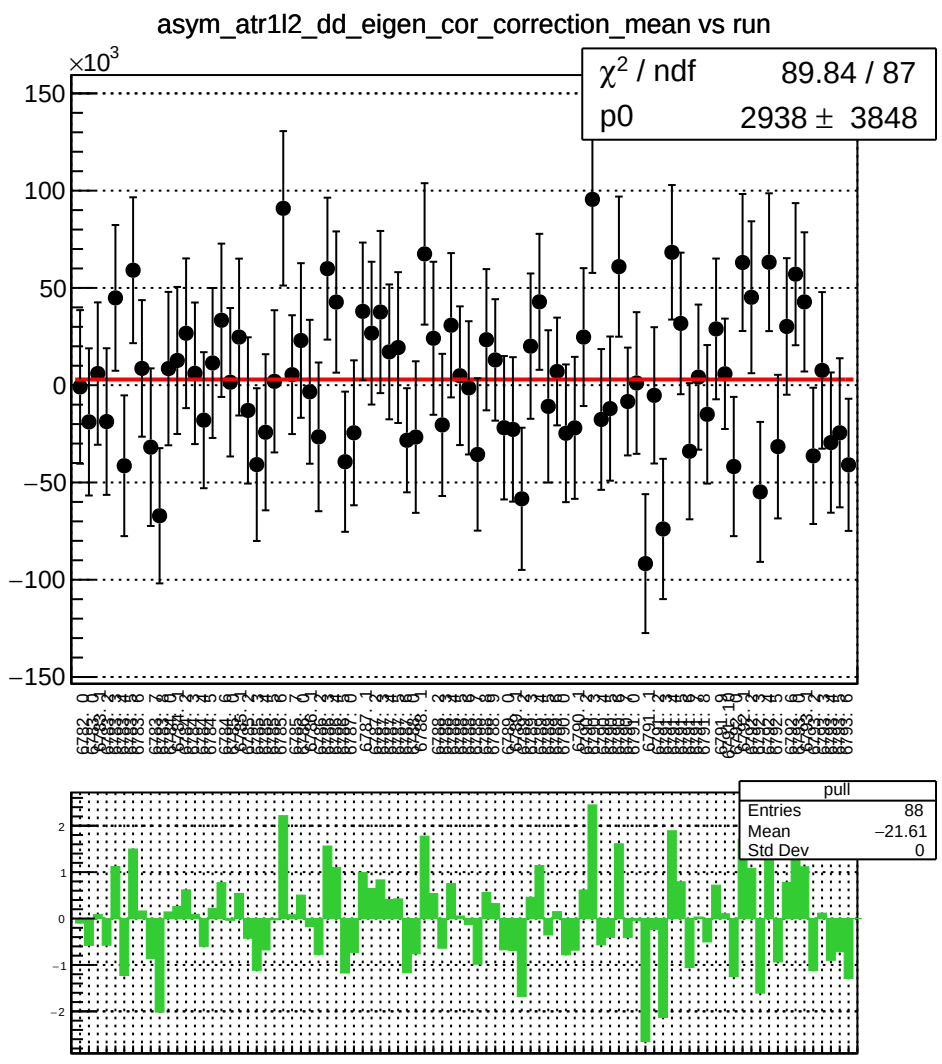
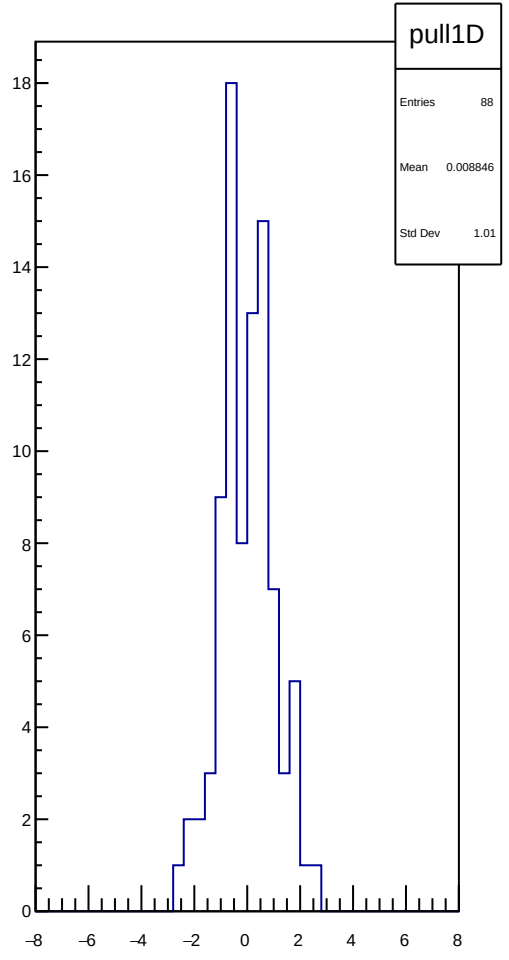
2
4
6
8


eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 105.8 / 87
p0 1847 ± 1.436
1880
1860
1840
1820
1800


asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.84 / 87
p0 2938 ± 3848
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −21.61
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.008846
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
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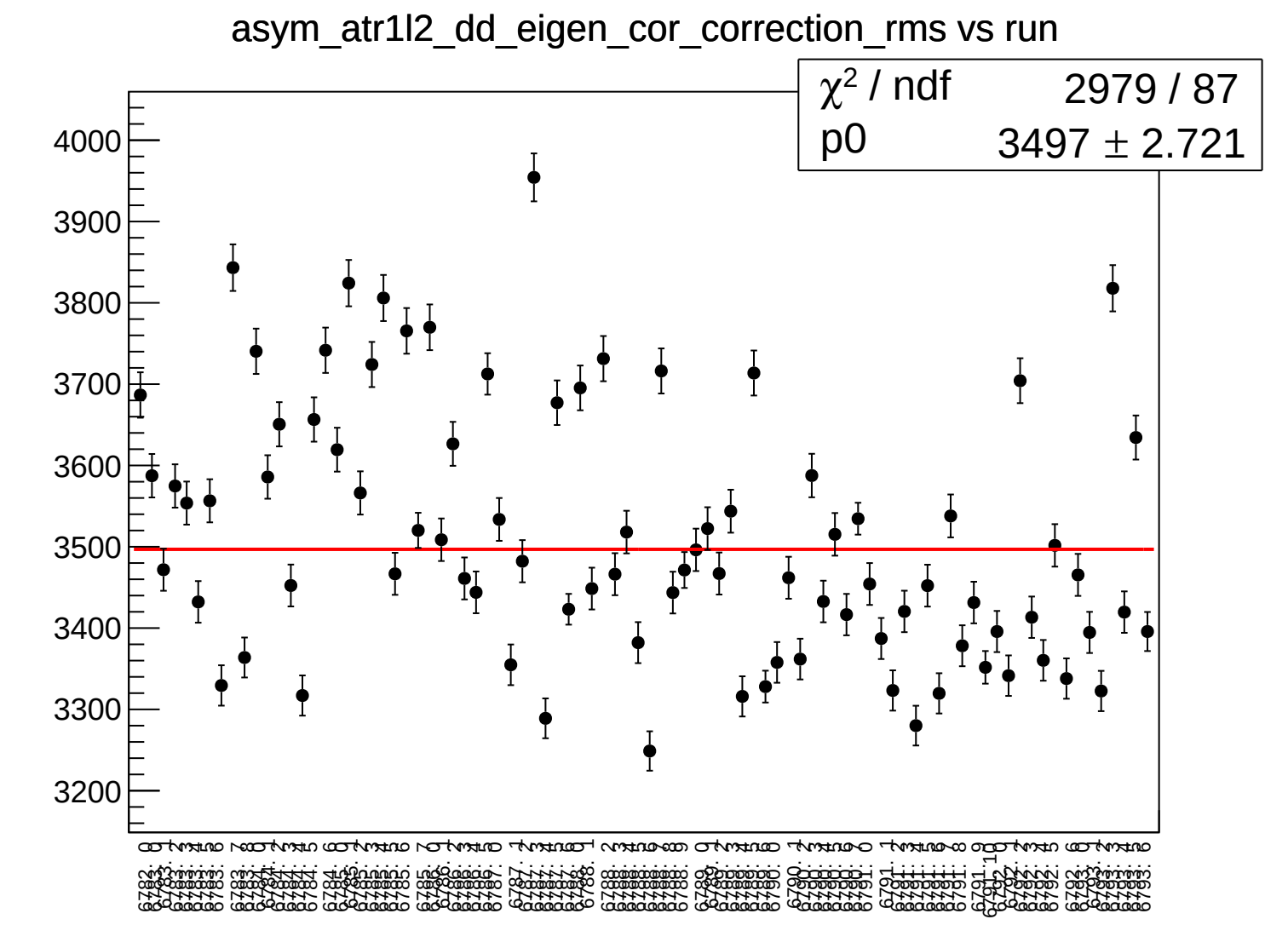
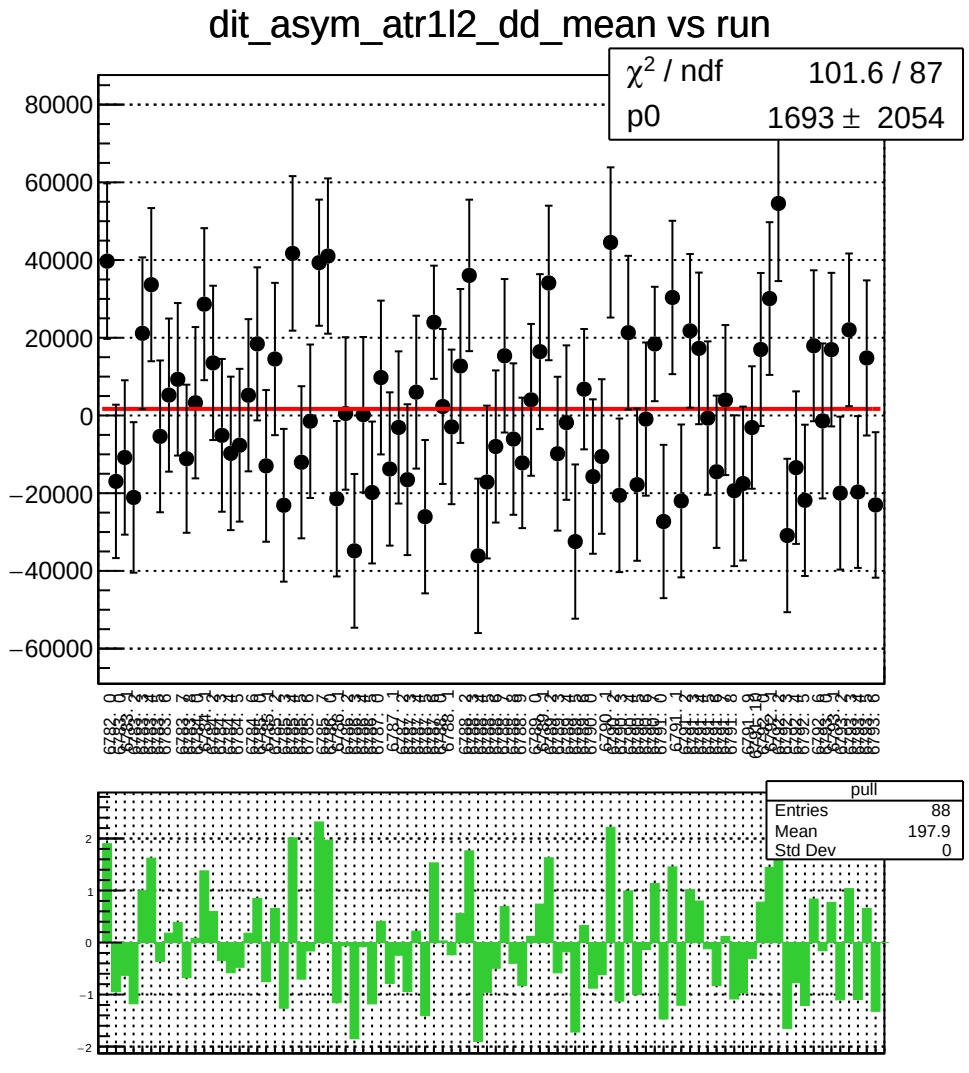
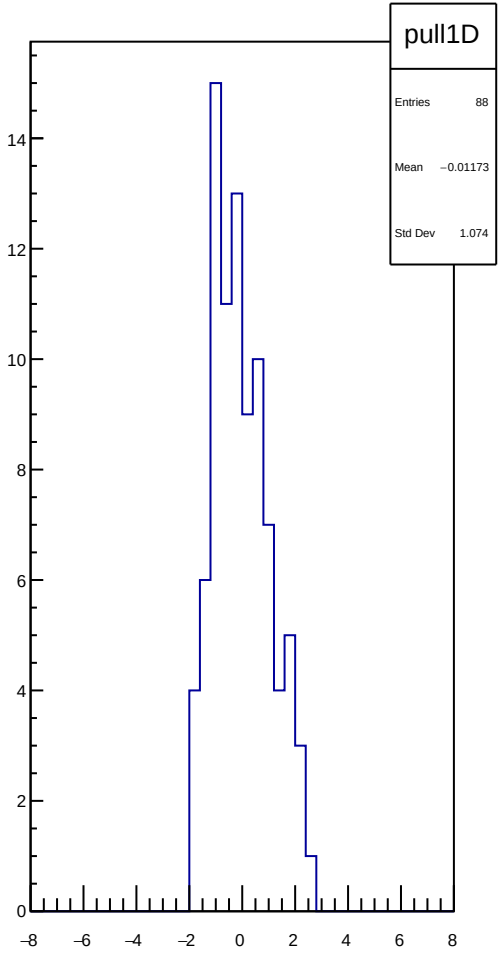
2
4
6
8


asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2979 / 87
p0 3497 ± 2.721
4000
3900
3800
3700
3600
3500
3400
3300
3200


dit_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 87
p0 1693 ± 2054
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 197.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.01173
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
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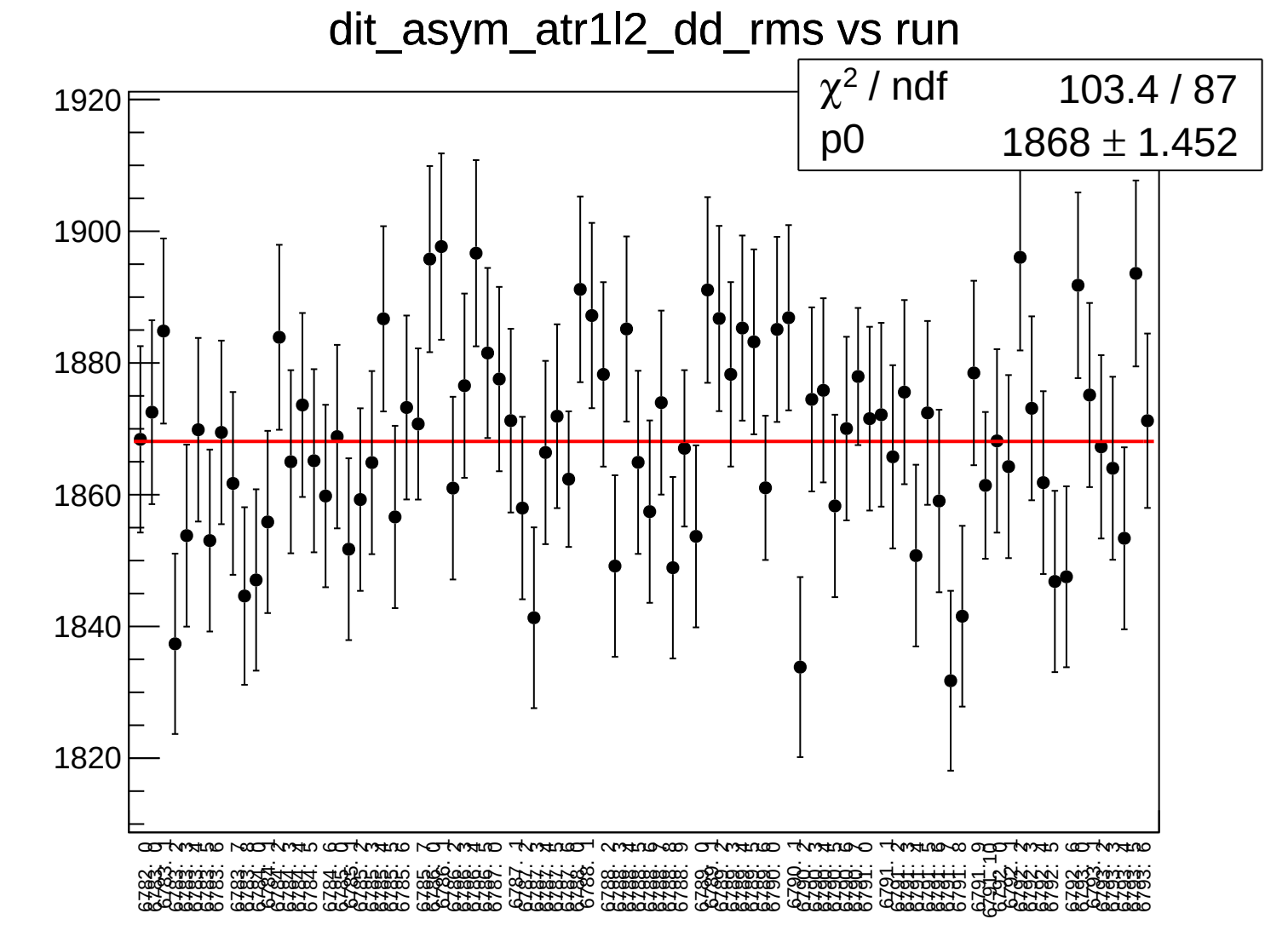
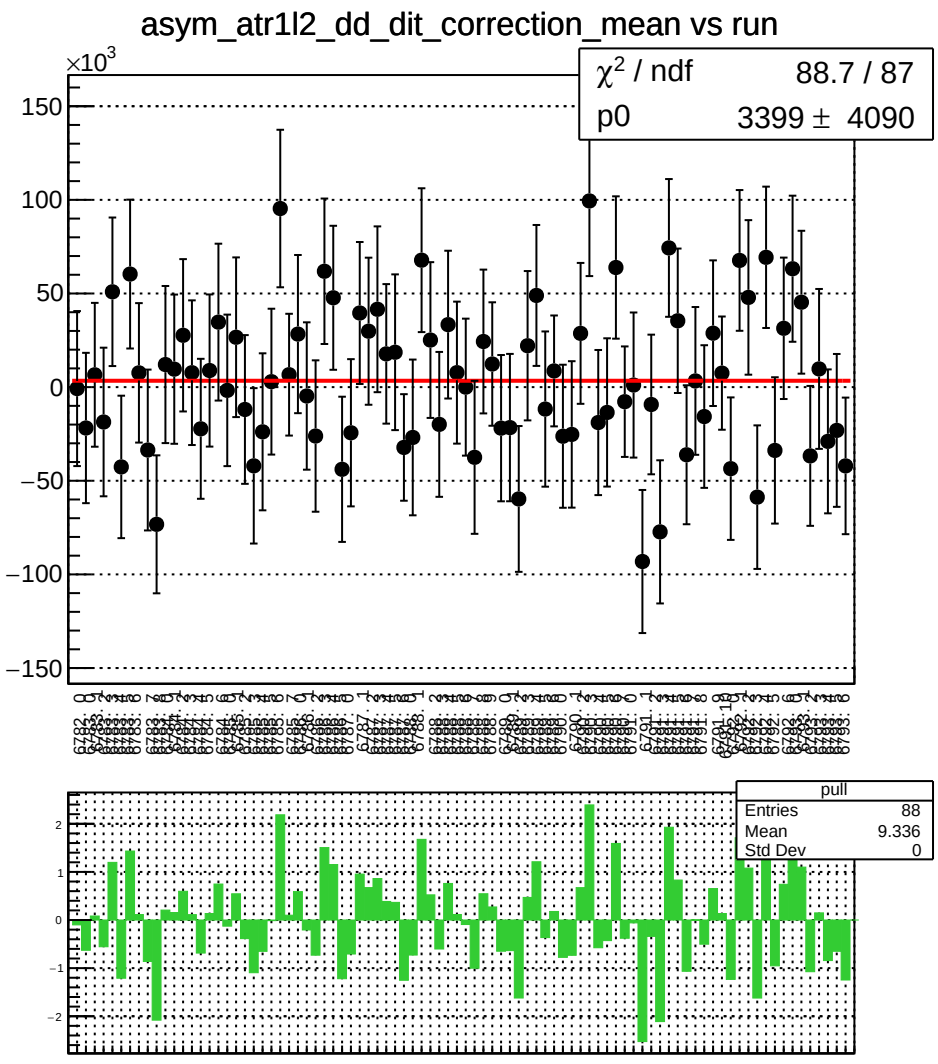
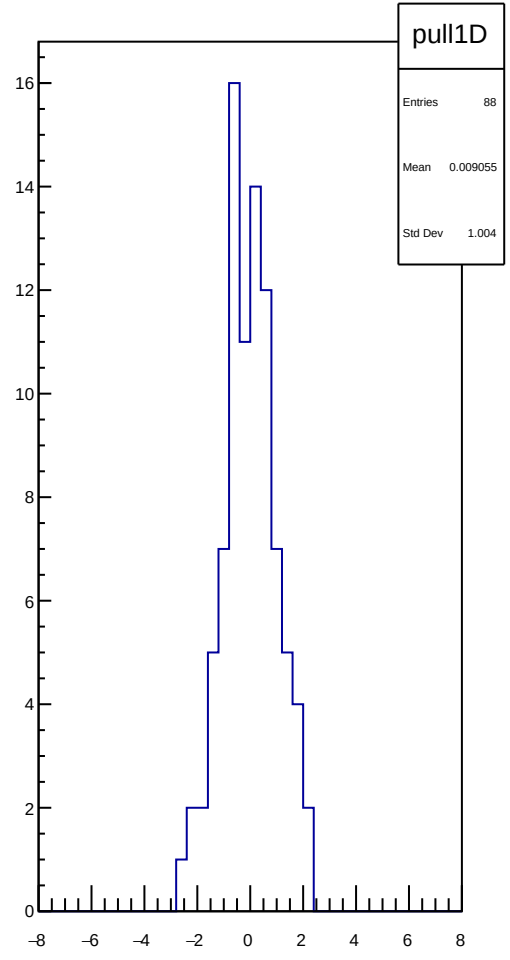
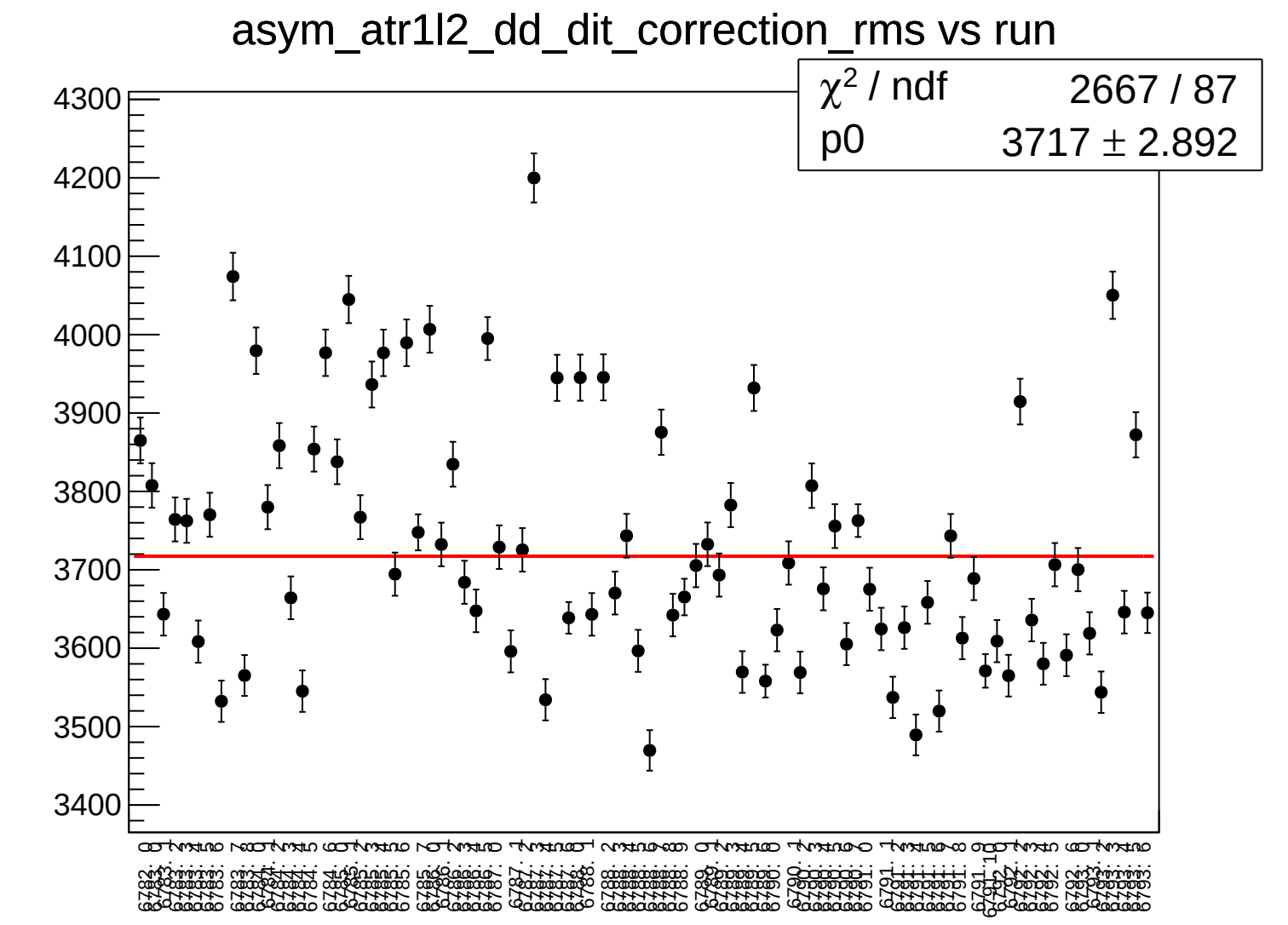
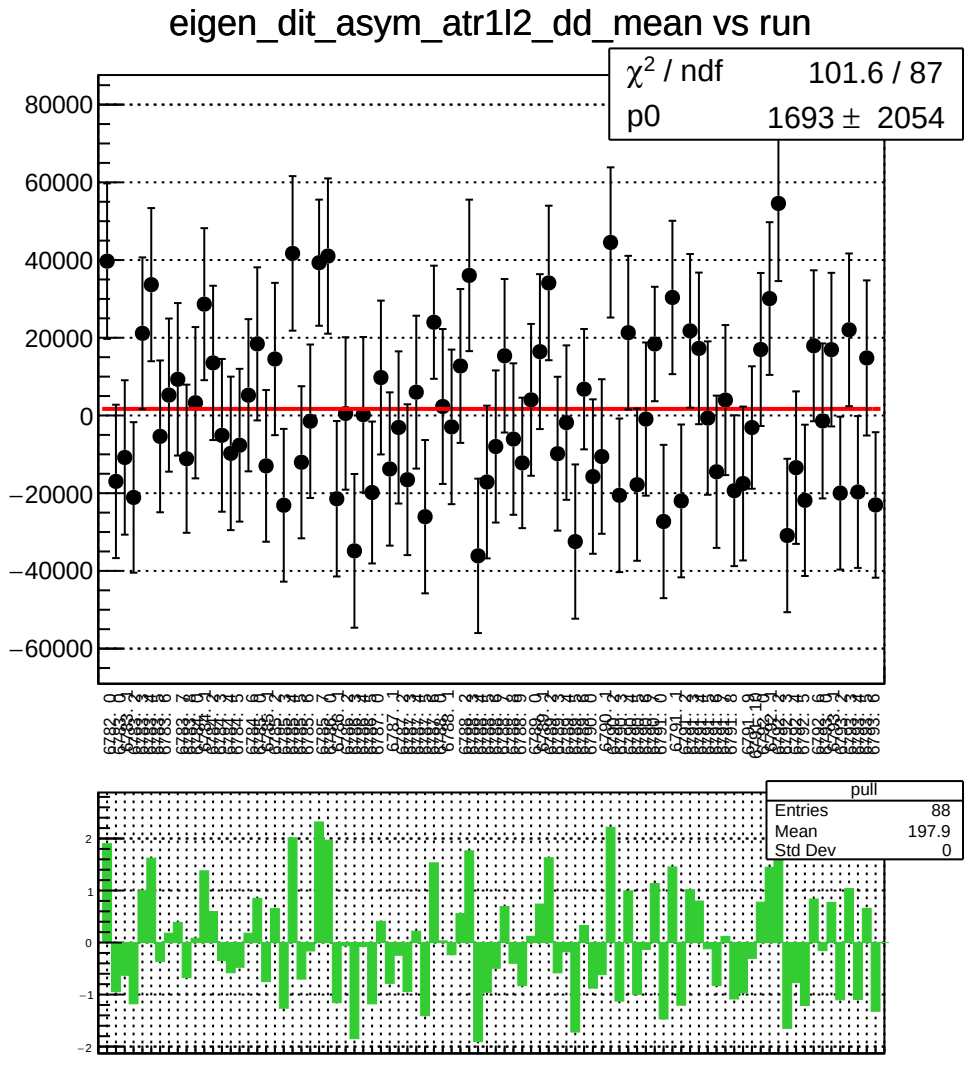
0
2
4
6
8

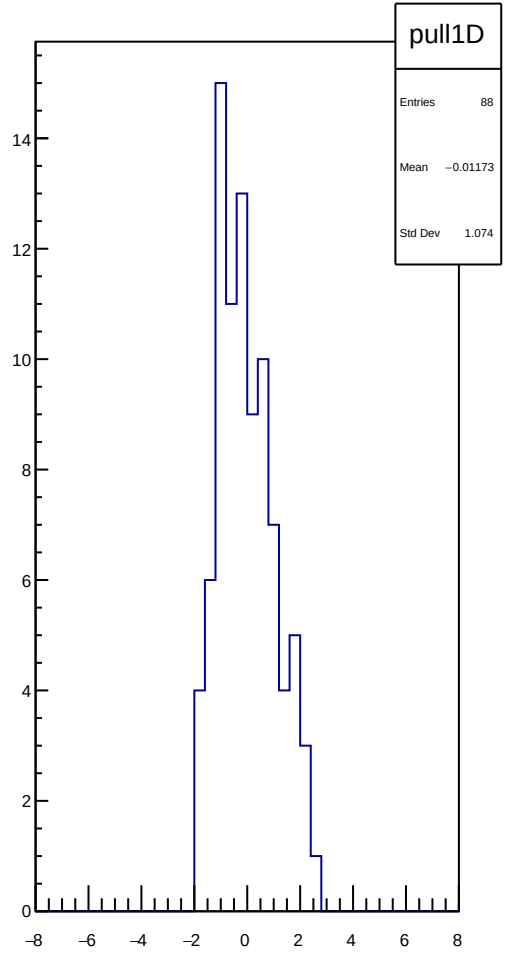

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 103.4 / 87
p0 1868 ± 1.452
1920
1900
1880
1860
1840
1820

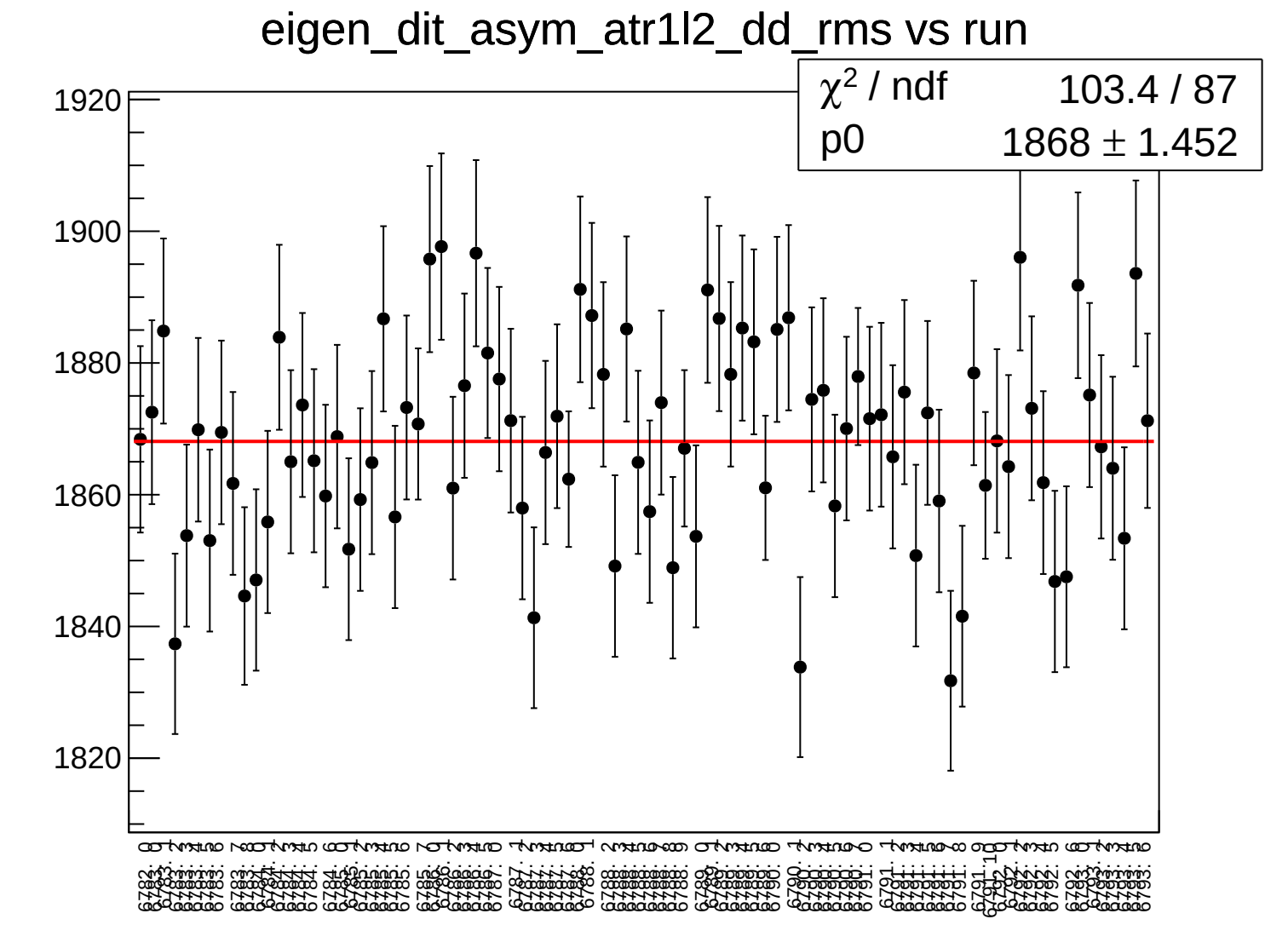

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.7 / 87
p0 3399 ± 4090
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 9.336
Std Dev 0
2
1
0
−1
−2

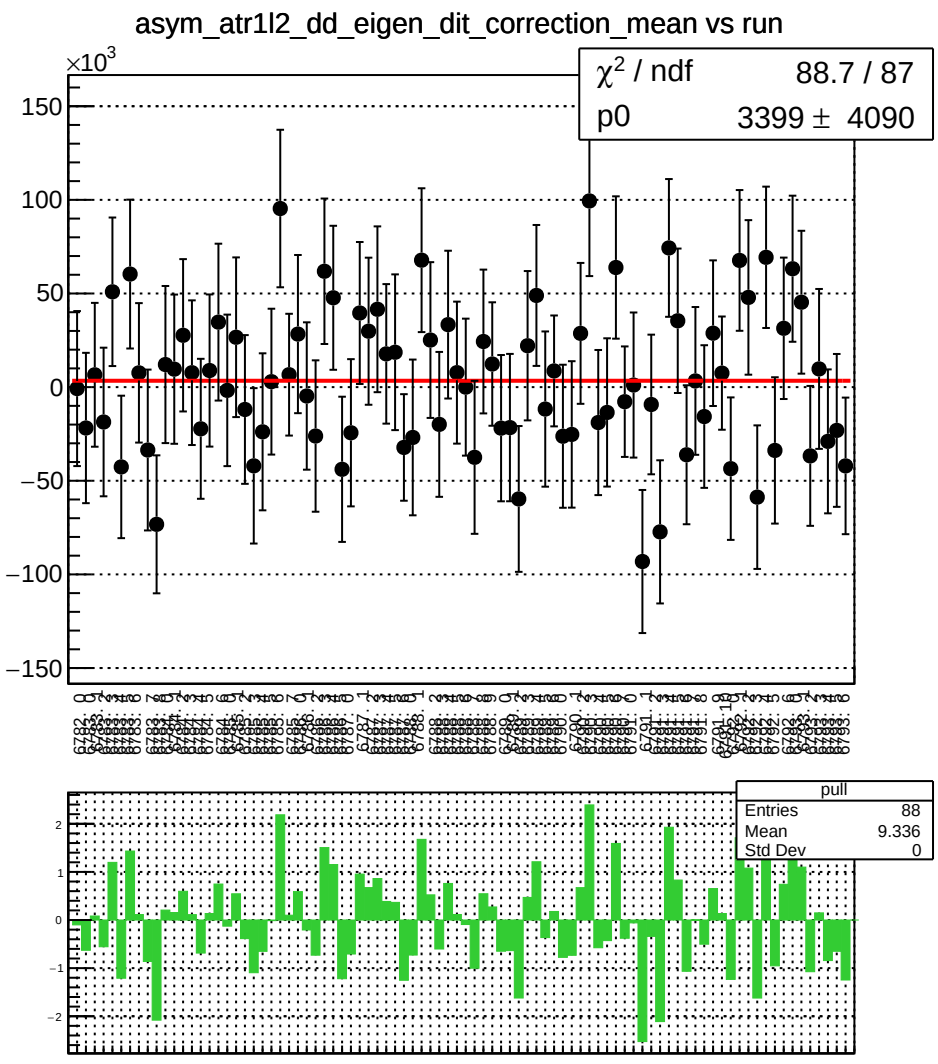

pull1D
Entries 88
Mean 0.009055
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

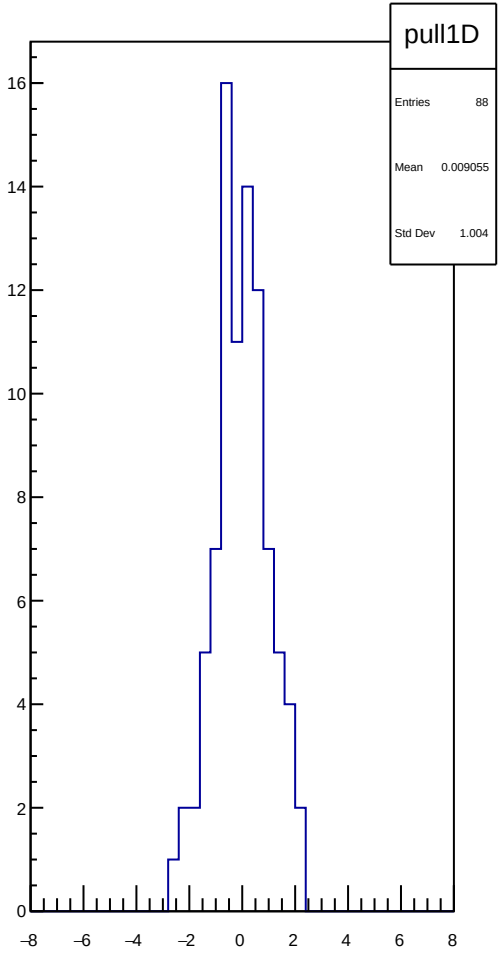

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2667 / 87
p0 3717 ± 2.892
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

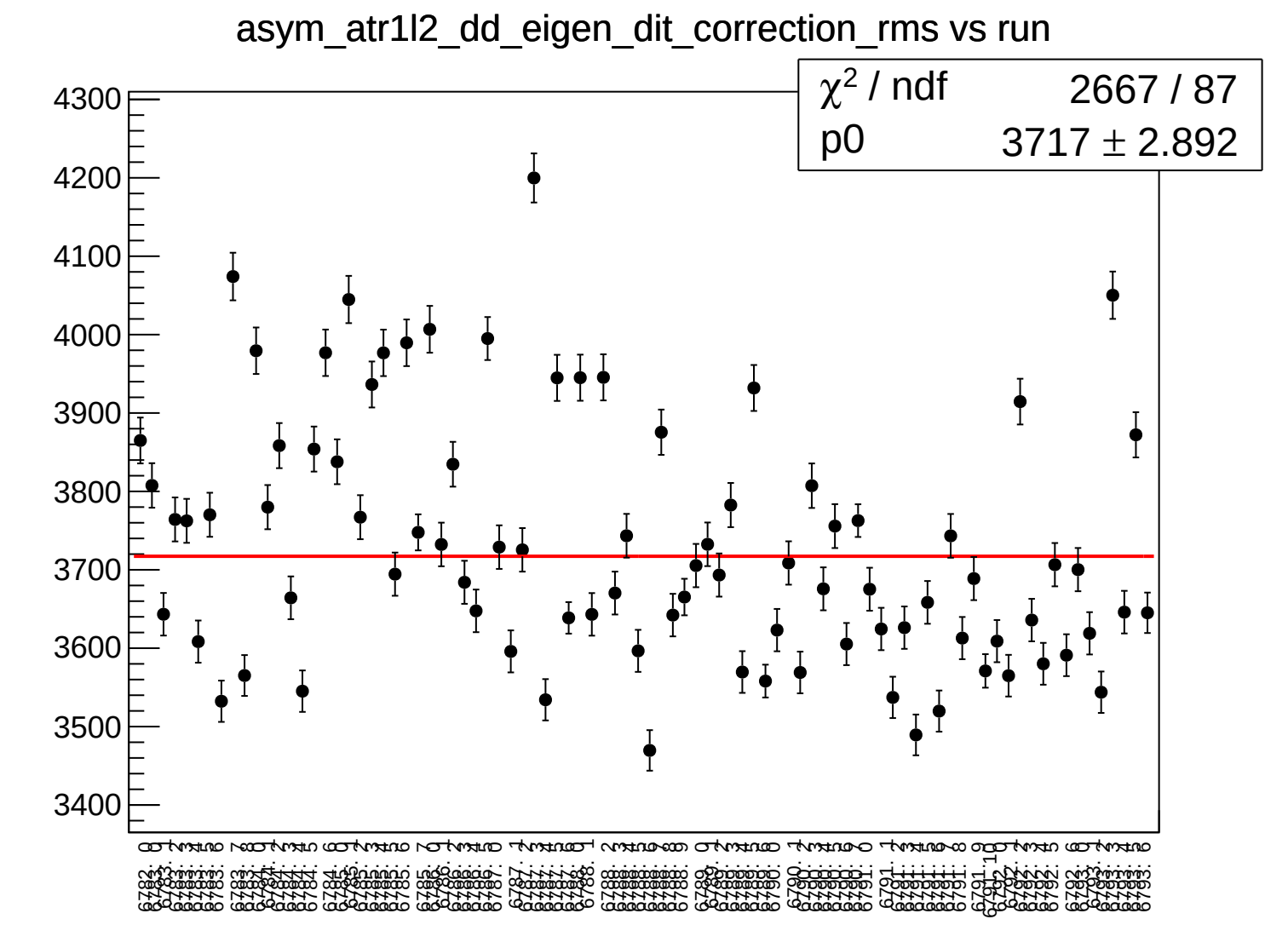

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 87
p0 1693 ± 2054
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 197.9
Std Dev 0
2
1
0
−1
−2

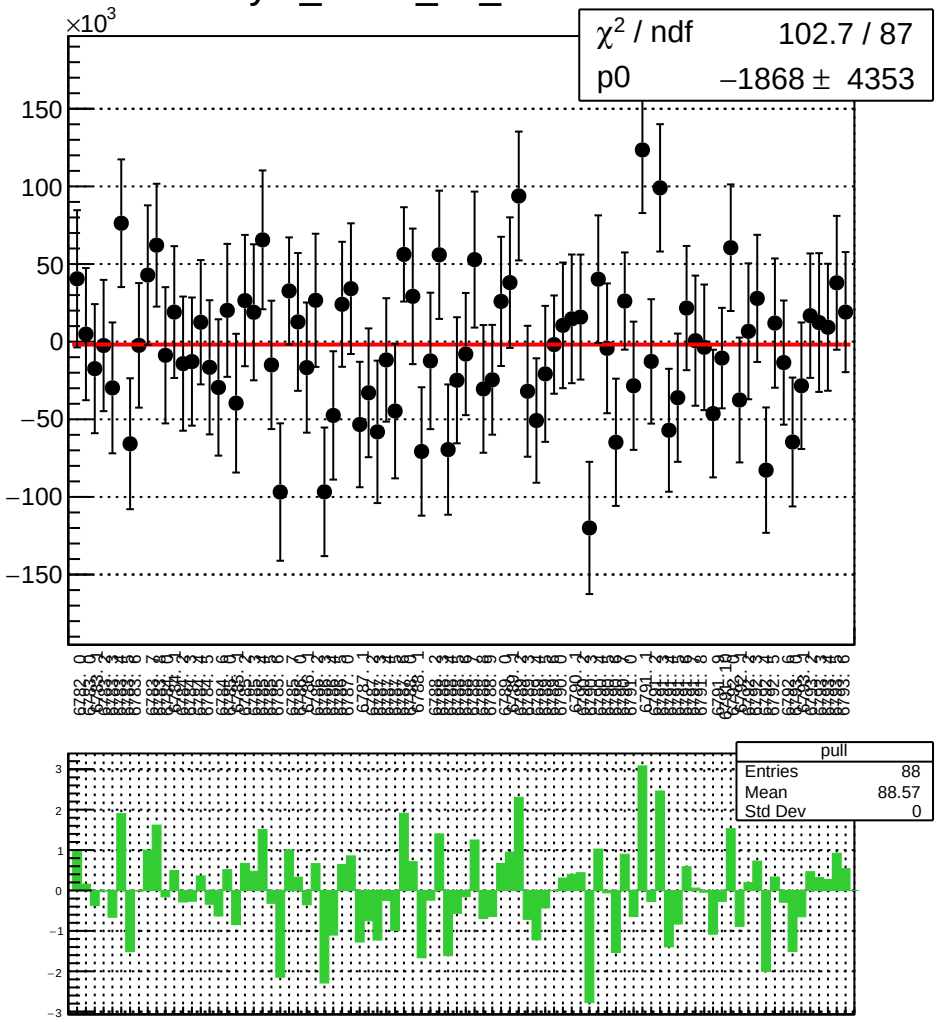

pull1D
Entries 88
Mean −0.01173
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

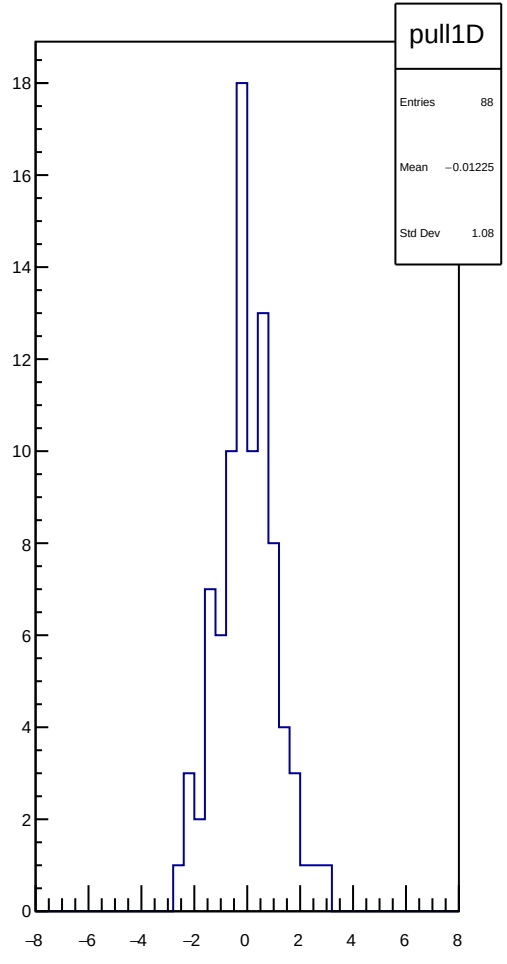

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 103.4 / 87
p0 1868 ± 1.452
1920
1900
1880
1860
1840
1820

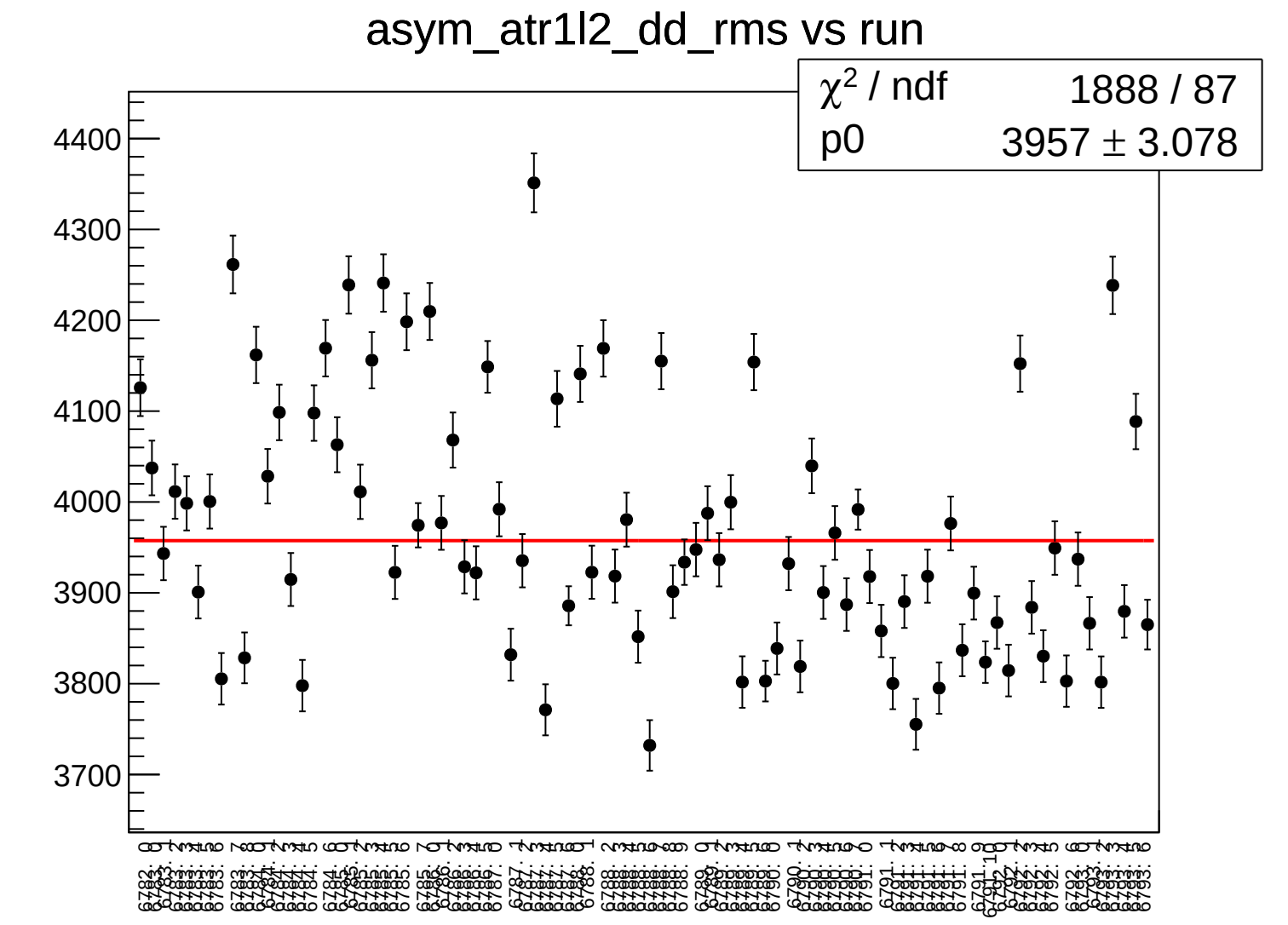

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.7 / 87
p0 3399 ± 4090
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 9.336
Std Dev 0
2
1
0
−1
−2

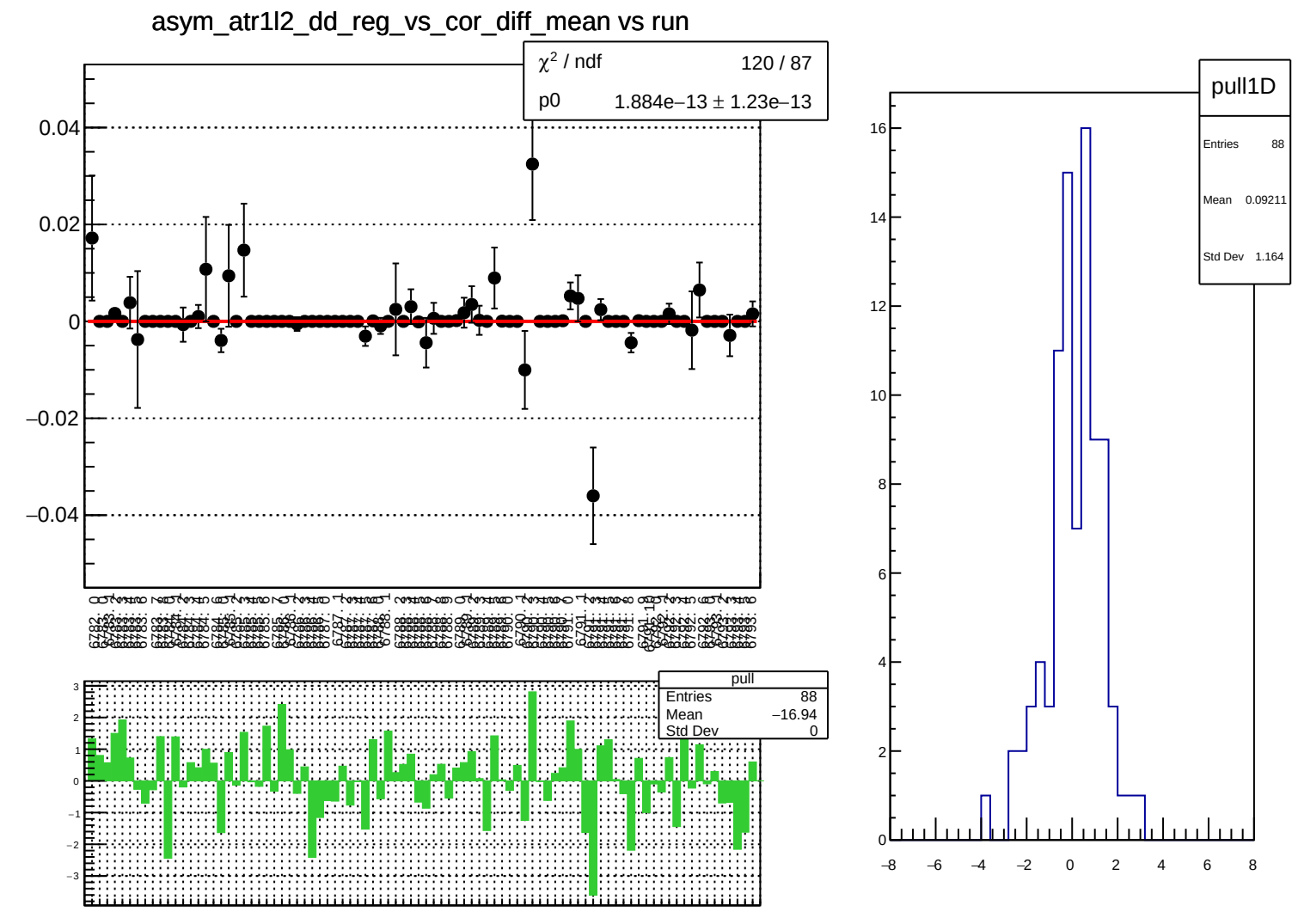

pull1D
Entries 88
Mean 0.009055
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

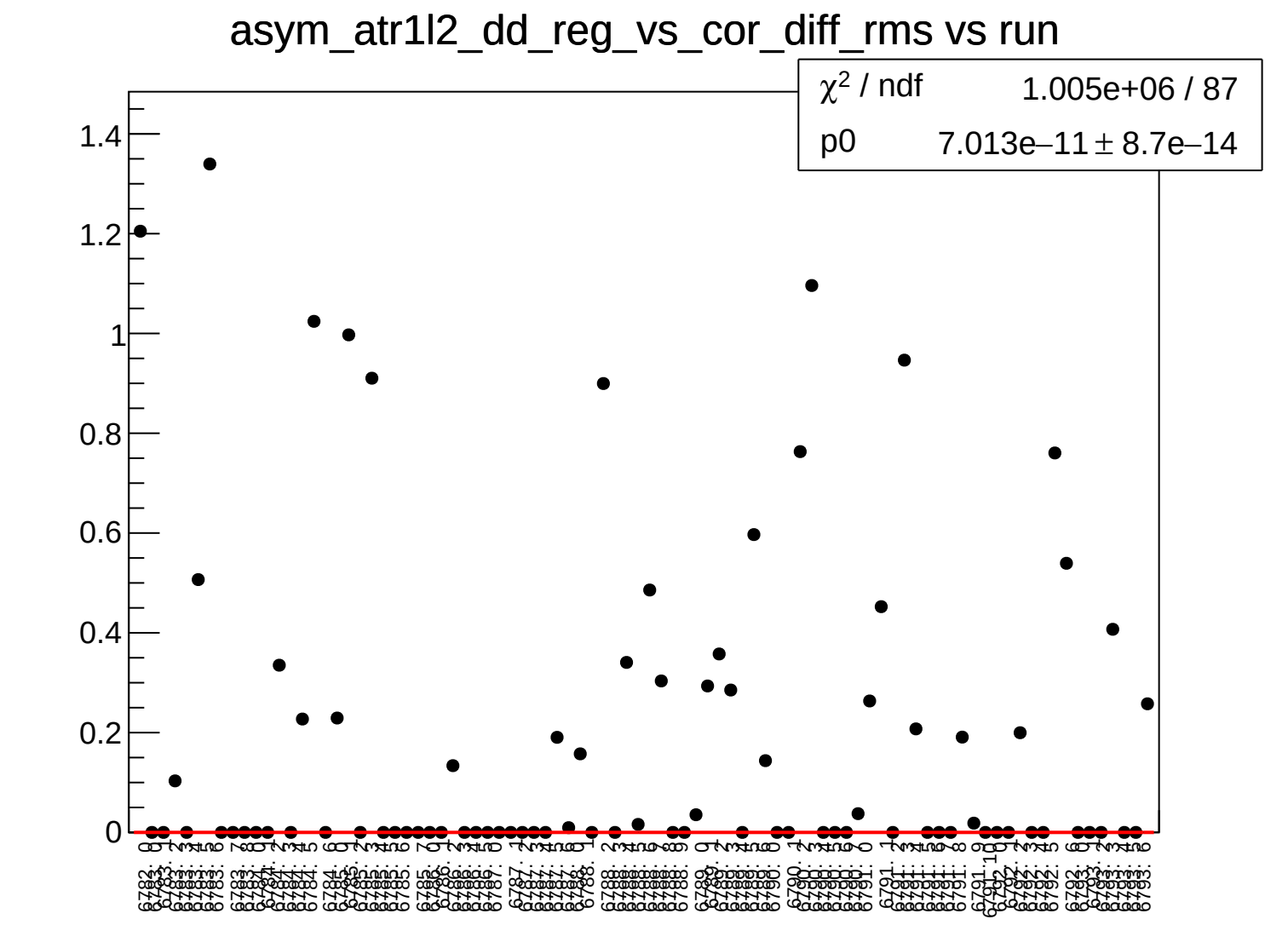

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2667 / 87
p0 3717 ± 2.892
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

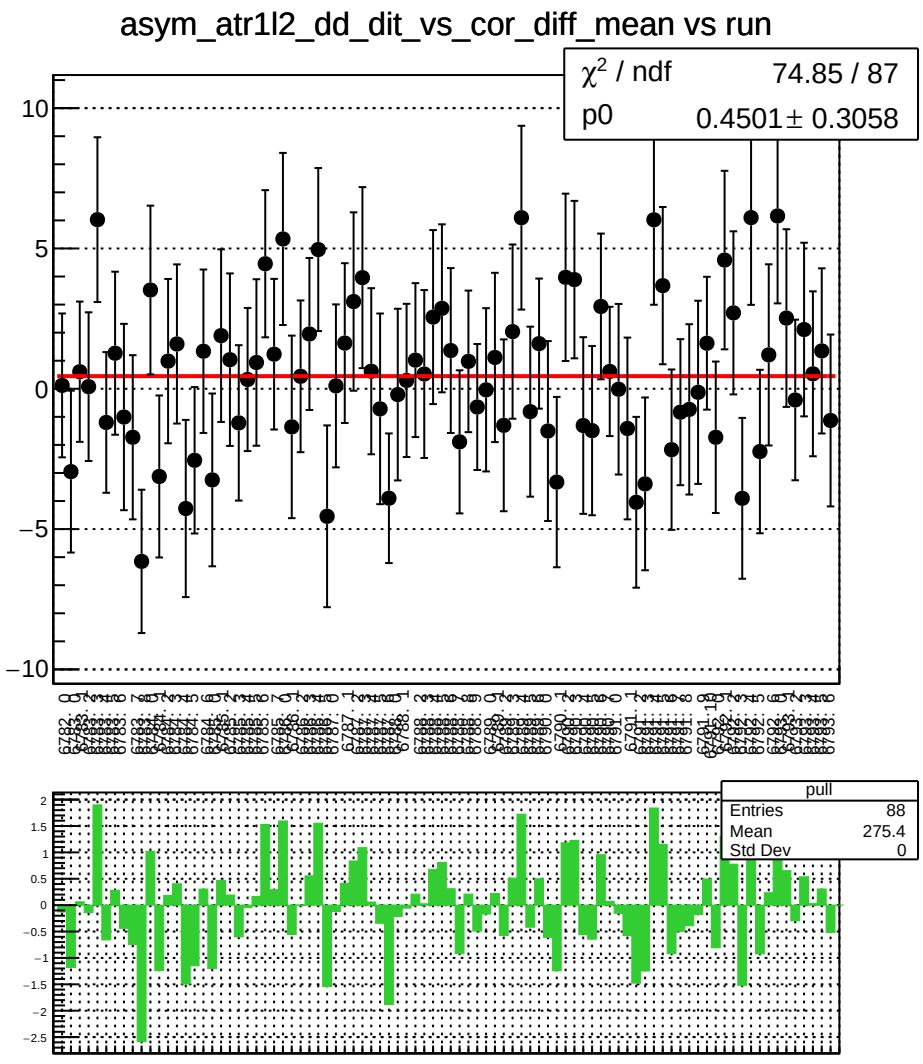

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 102.7 / 87
p0 −1868 ± 4353
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 88.57
Std Dev 0
3
2
1
0
−1
−2
−3

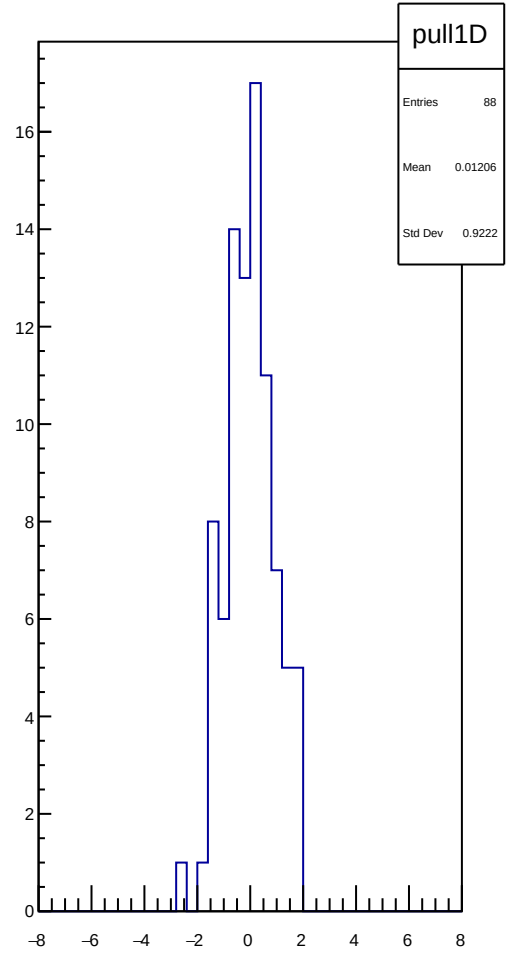

pull1D
Entries 88
Mean −0.01225
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

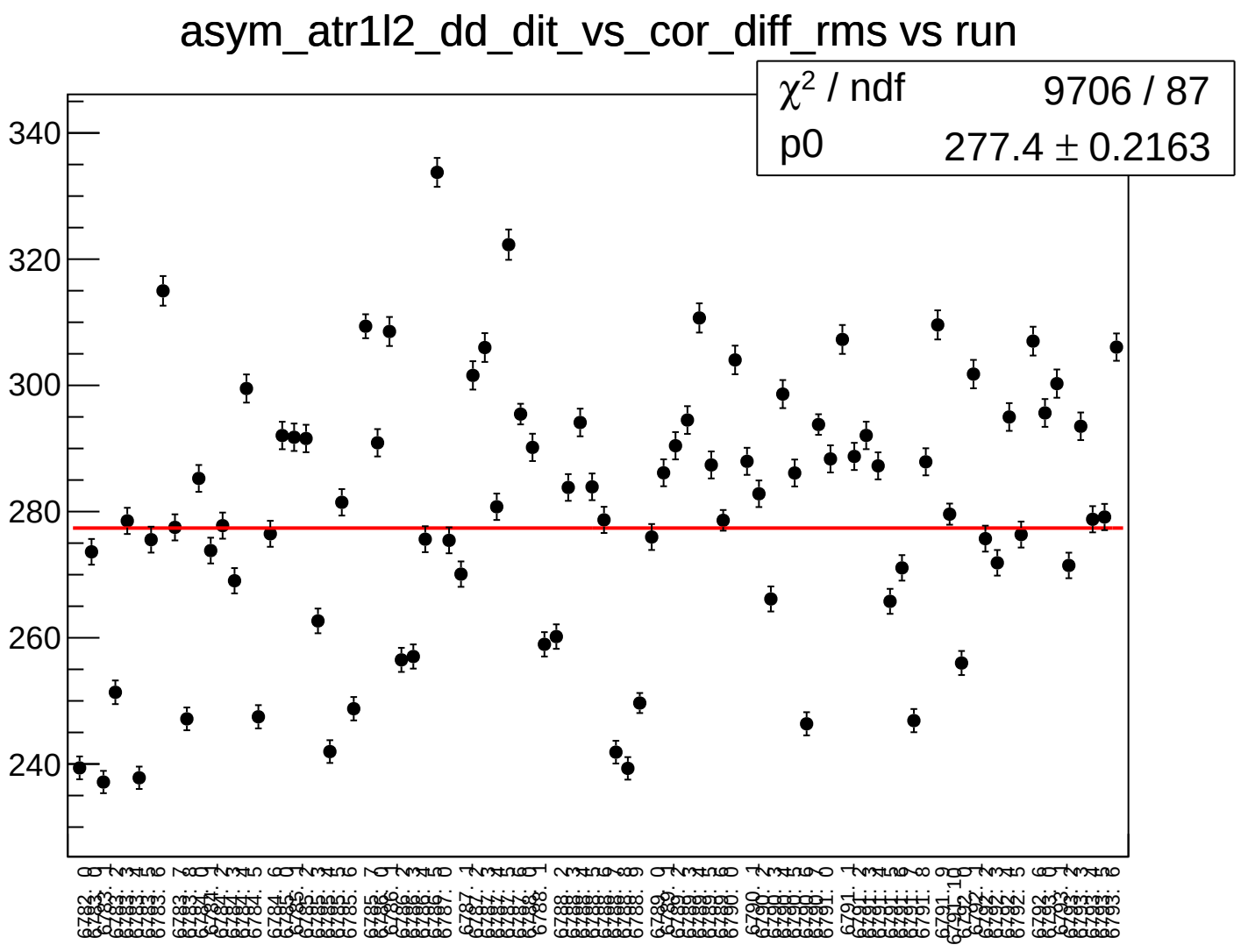

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1888 / 87
p0 3957 ± 3.078
4400
4300
4200
4100
4000
3900
3800
3700

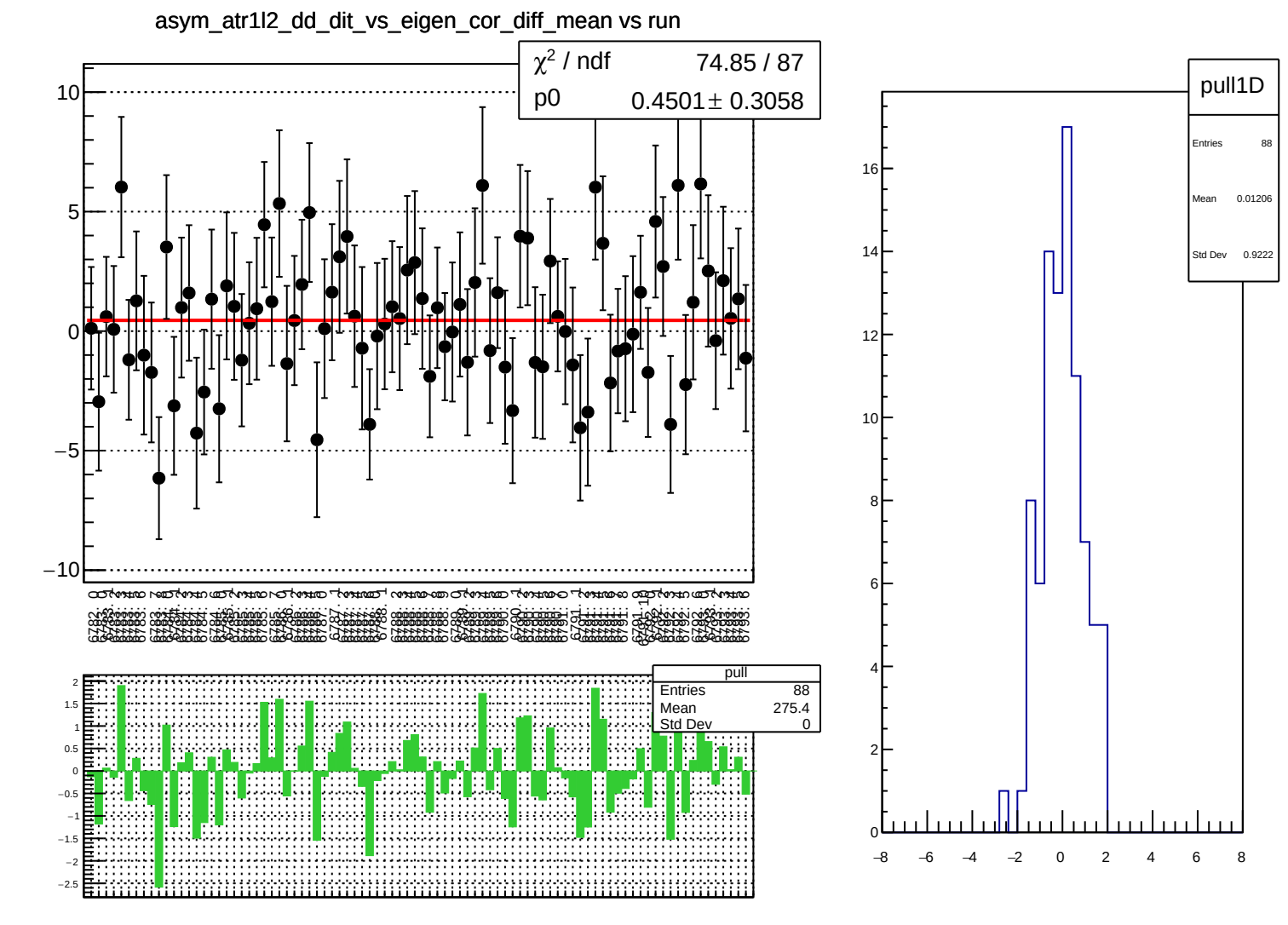

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 120 / 87
p0 1.884e−13 ± 1.23e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean −16.94
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.09211
Std Dev 1.164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

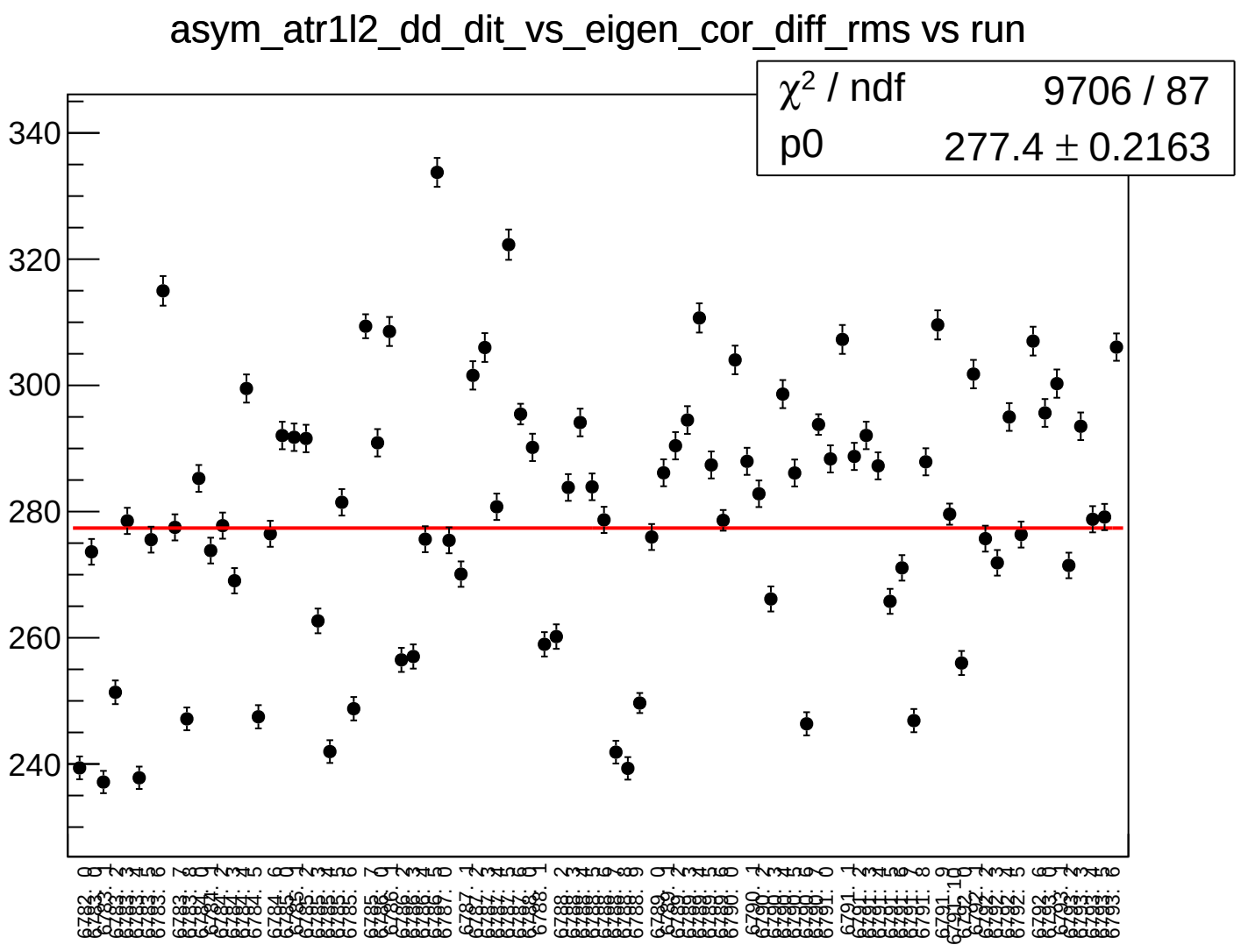

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.005e+06 / 87
p0 7.013e−11 ± 8.7e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

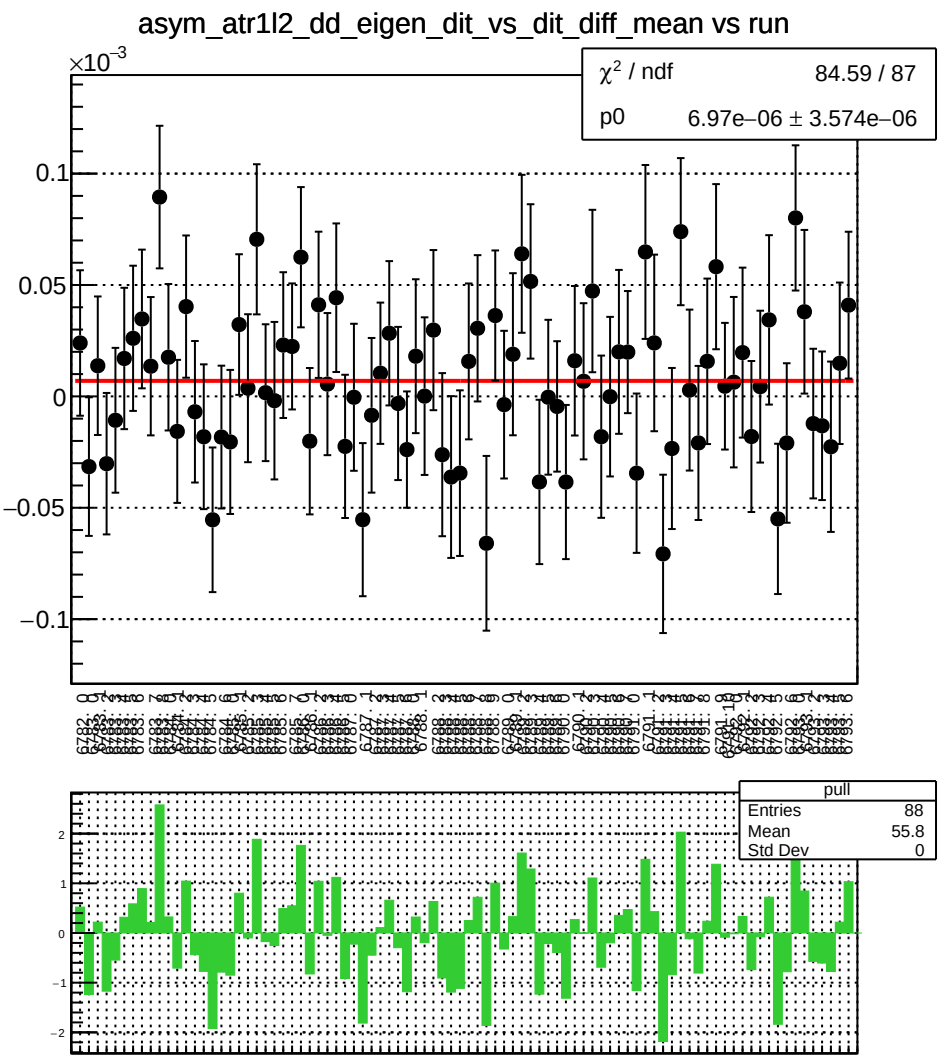

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.85 / 87
p0 0.4501 ± 0.3058
pull
Entries 88
Mean 275.4
Std Dev 0

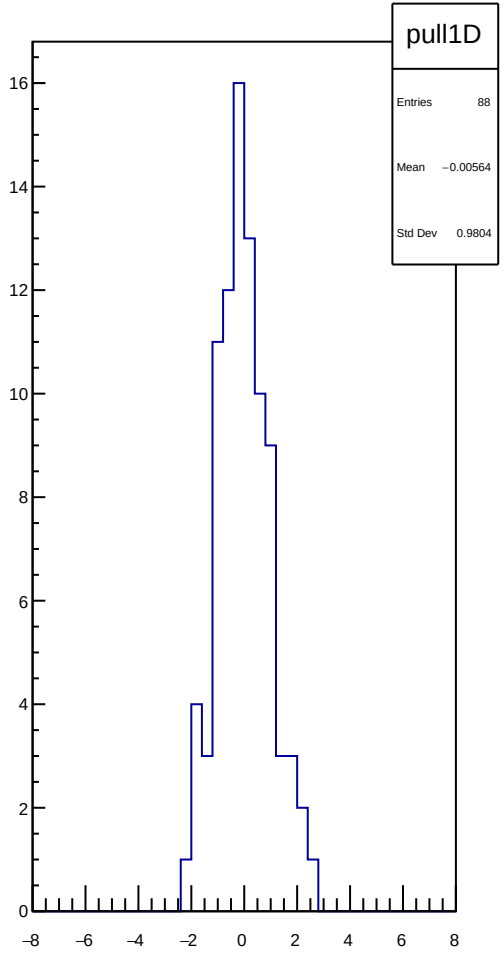

pull1D
Entries 88
Mean 0.01206
Std Dev 0.9222

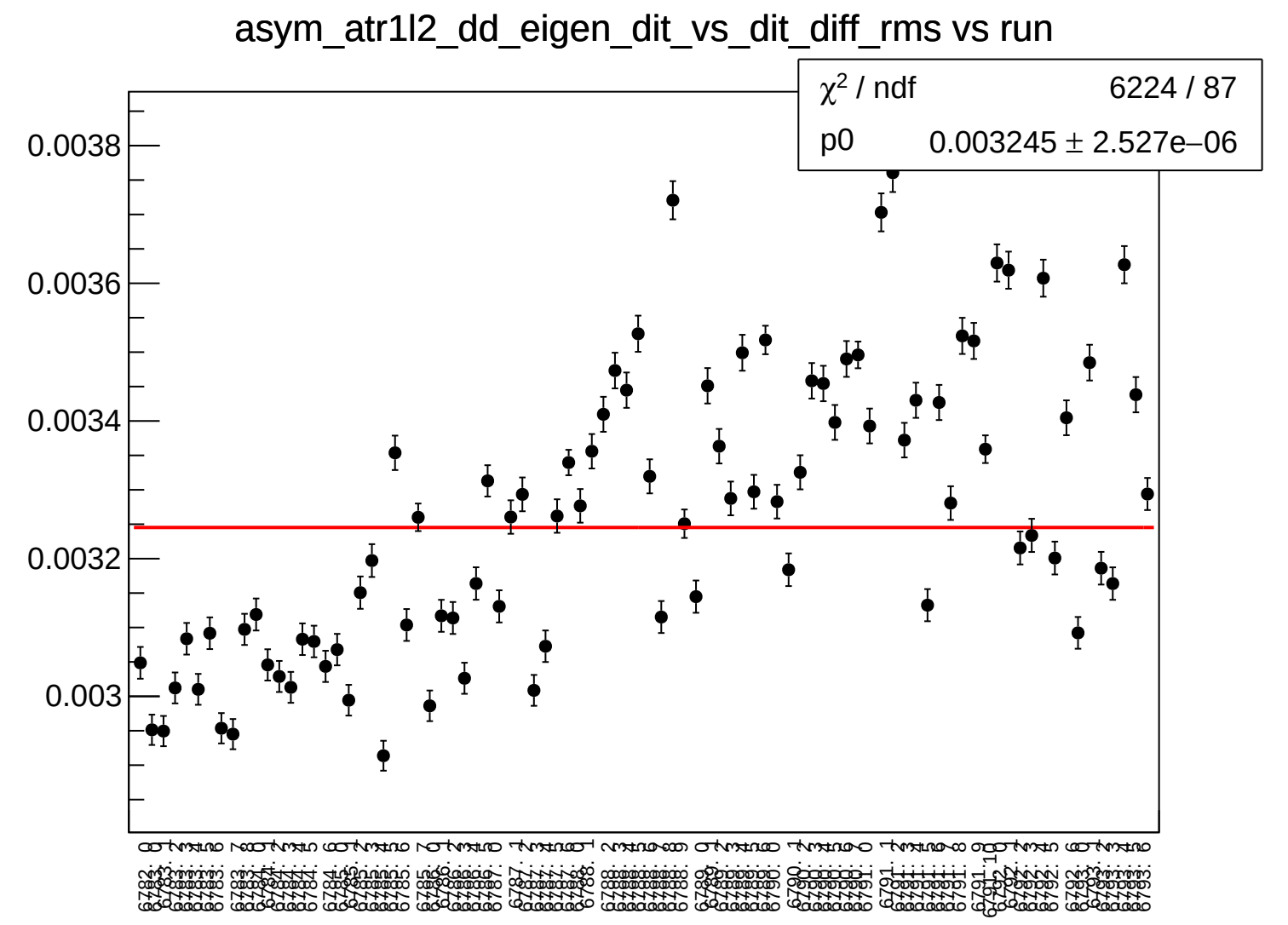

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9706 / 87
p0 277.4 ± 0.2163
340
320
300
280
260
240

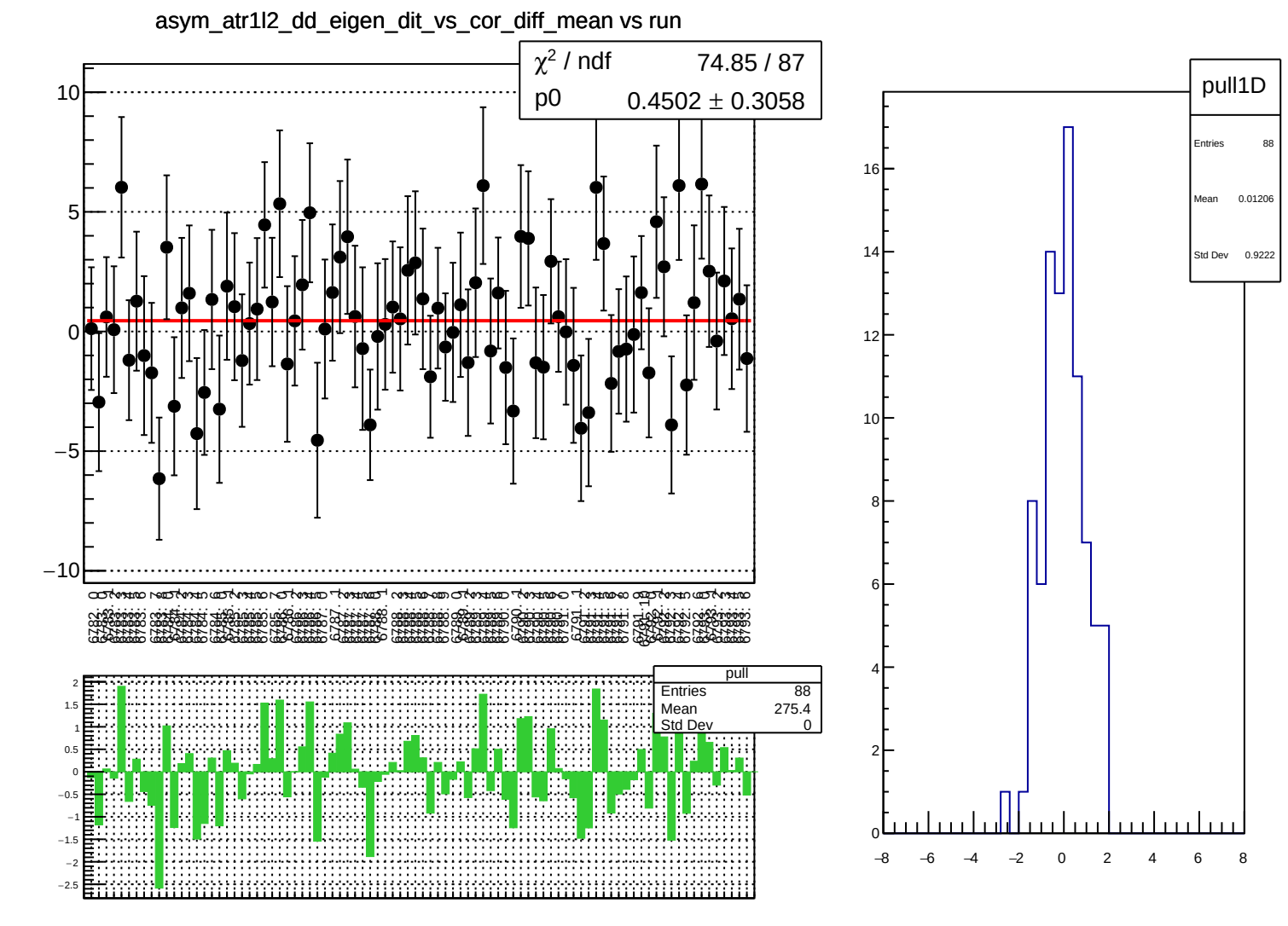

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.85 / 87
p0 0.4501 ± 0.3058
pull
Entries 88
Mean 275.4
Std Dev 0
pull1D
Entries 88
Mean 0.01206
Std Dev 0.9222

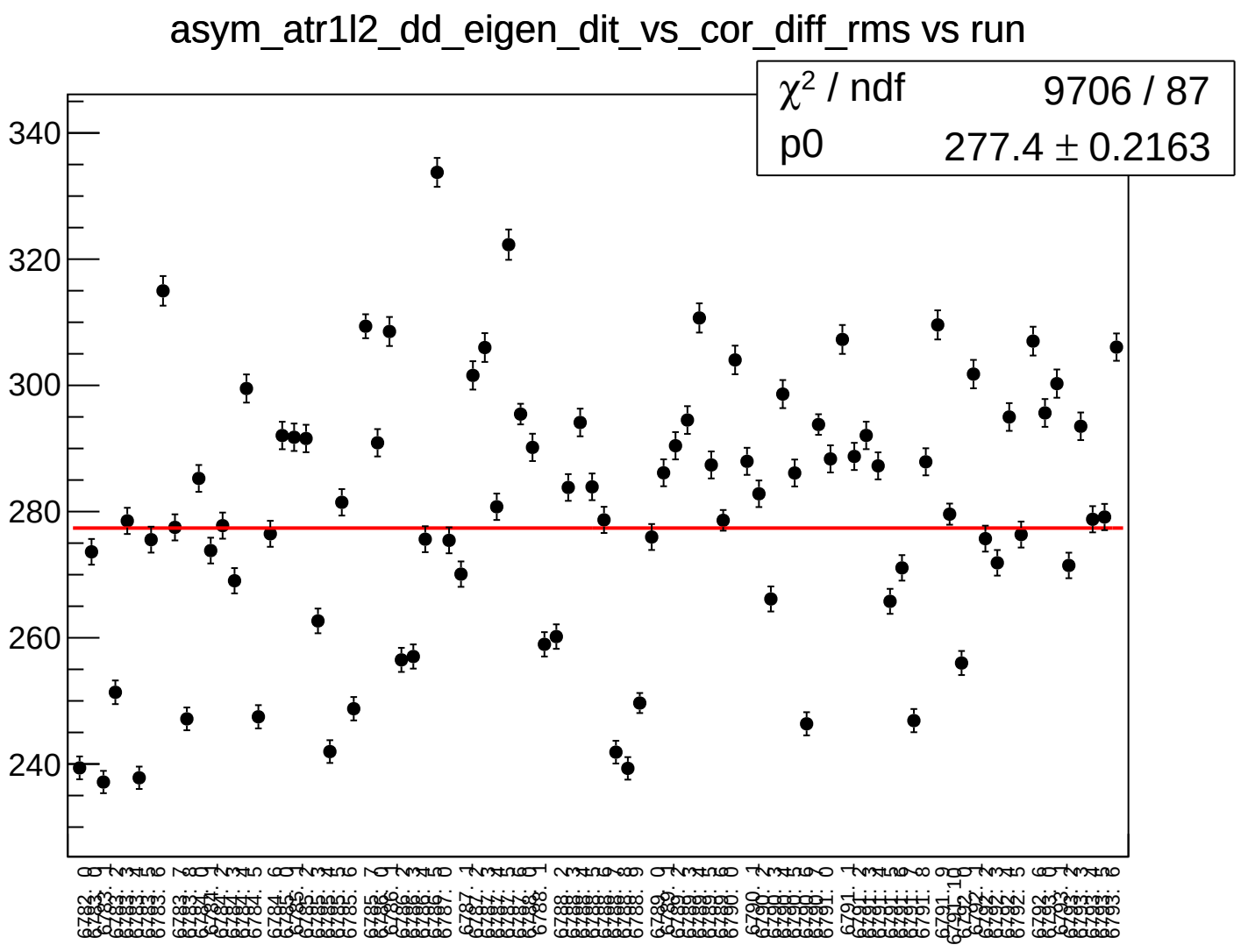

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9706 / 87
p0 277.4 ± 0.2163
340
320
300
280
260
240

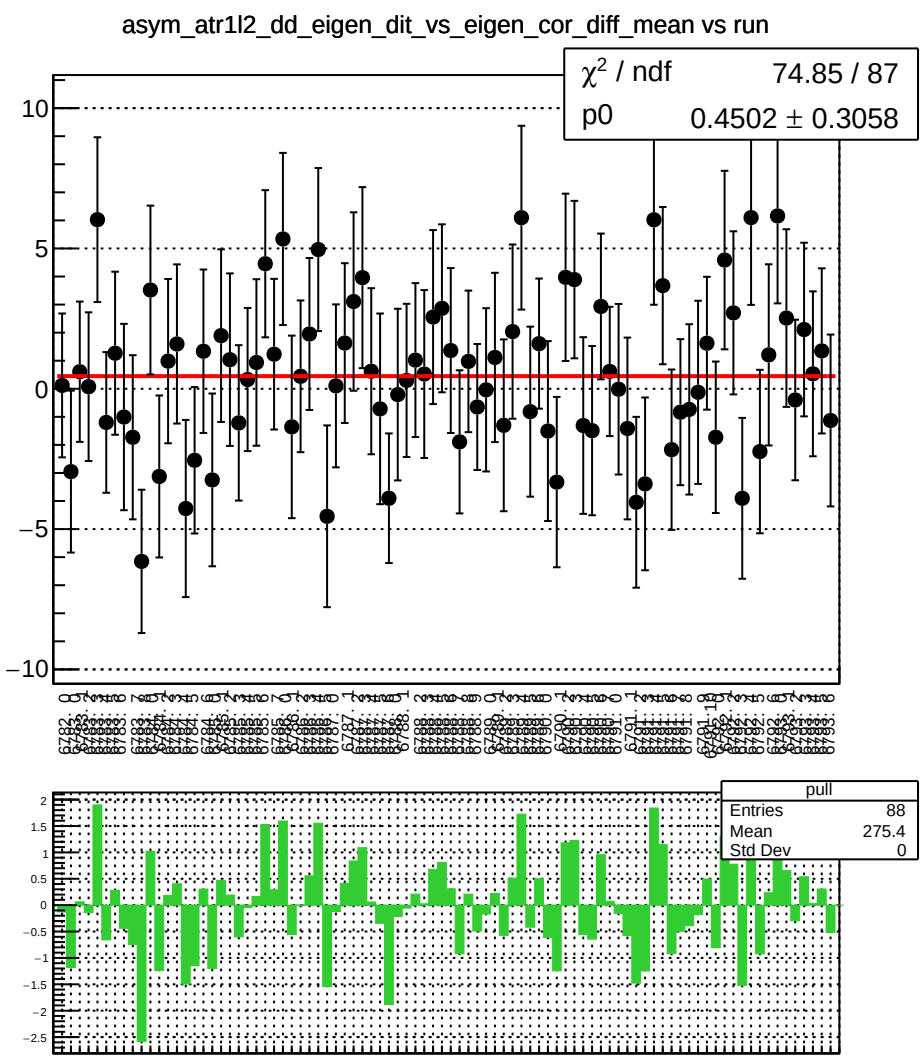

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.59 / 87
p0 6.97e−06 ± 3.574e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 55.8
Std Dev 0
2
1
0
−1
−2

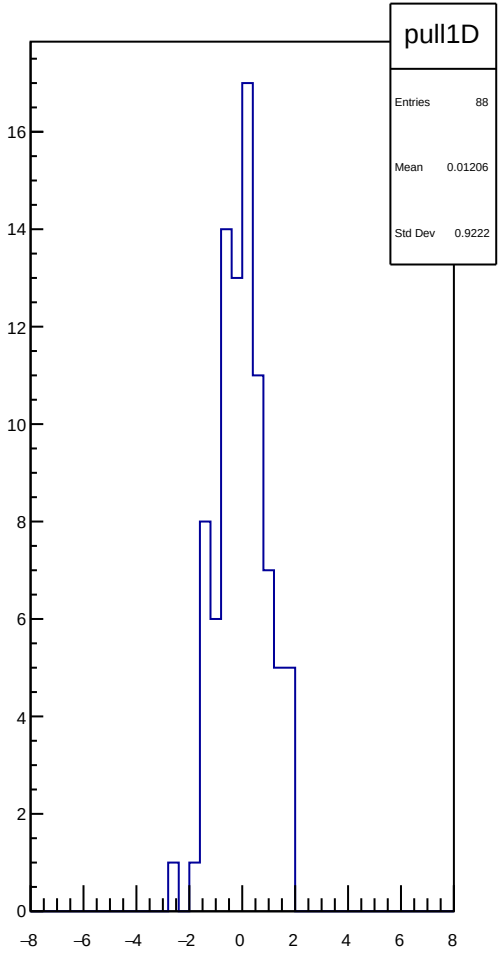

pull1D
Entries 88
Mean −0.00564
Std Dev 0.9804
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

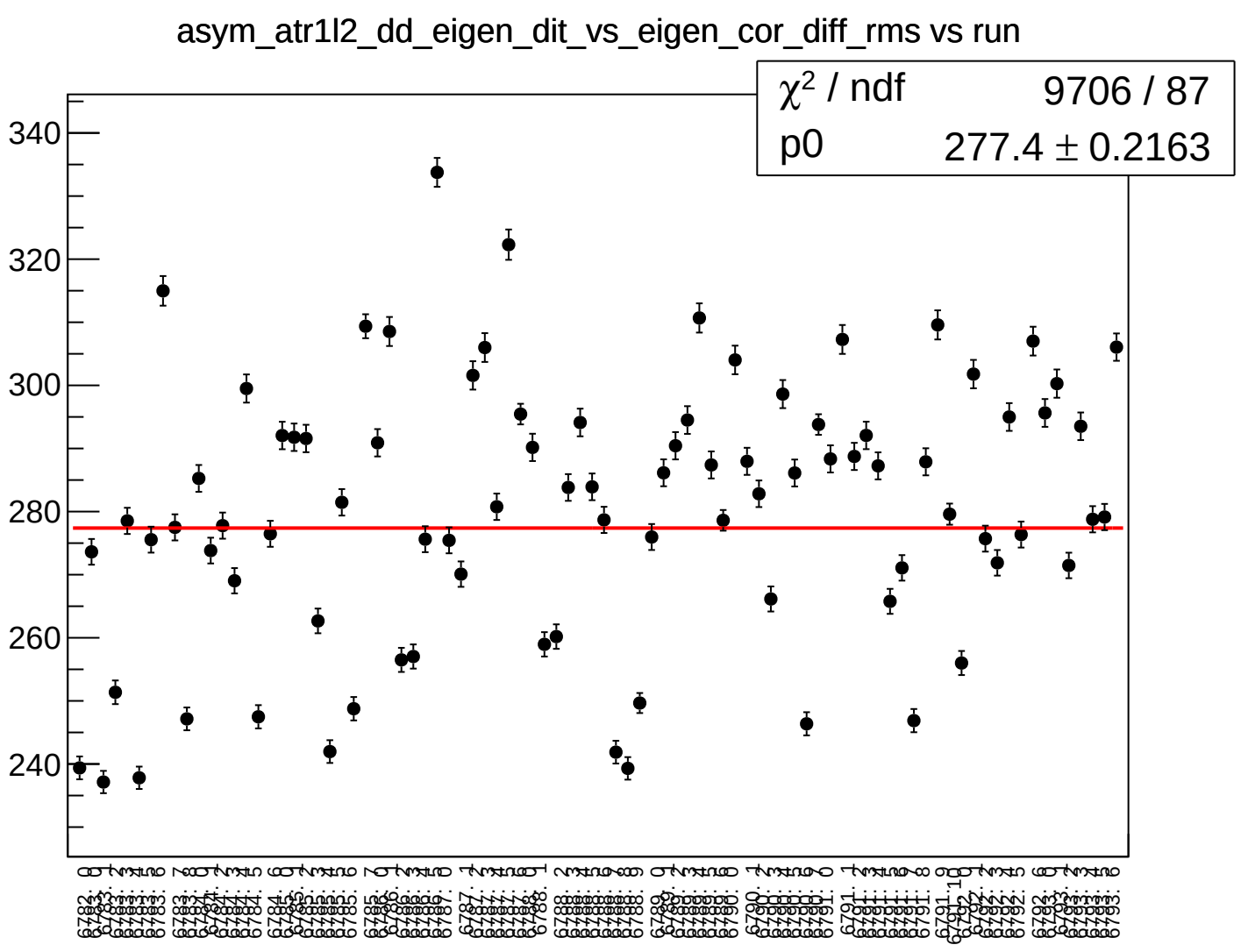

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6224 / 87
p0 0.003245 ± 2.527e−06
0.0038
0.0036
0.0034
0.0032
0.003

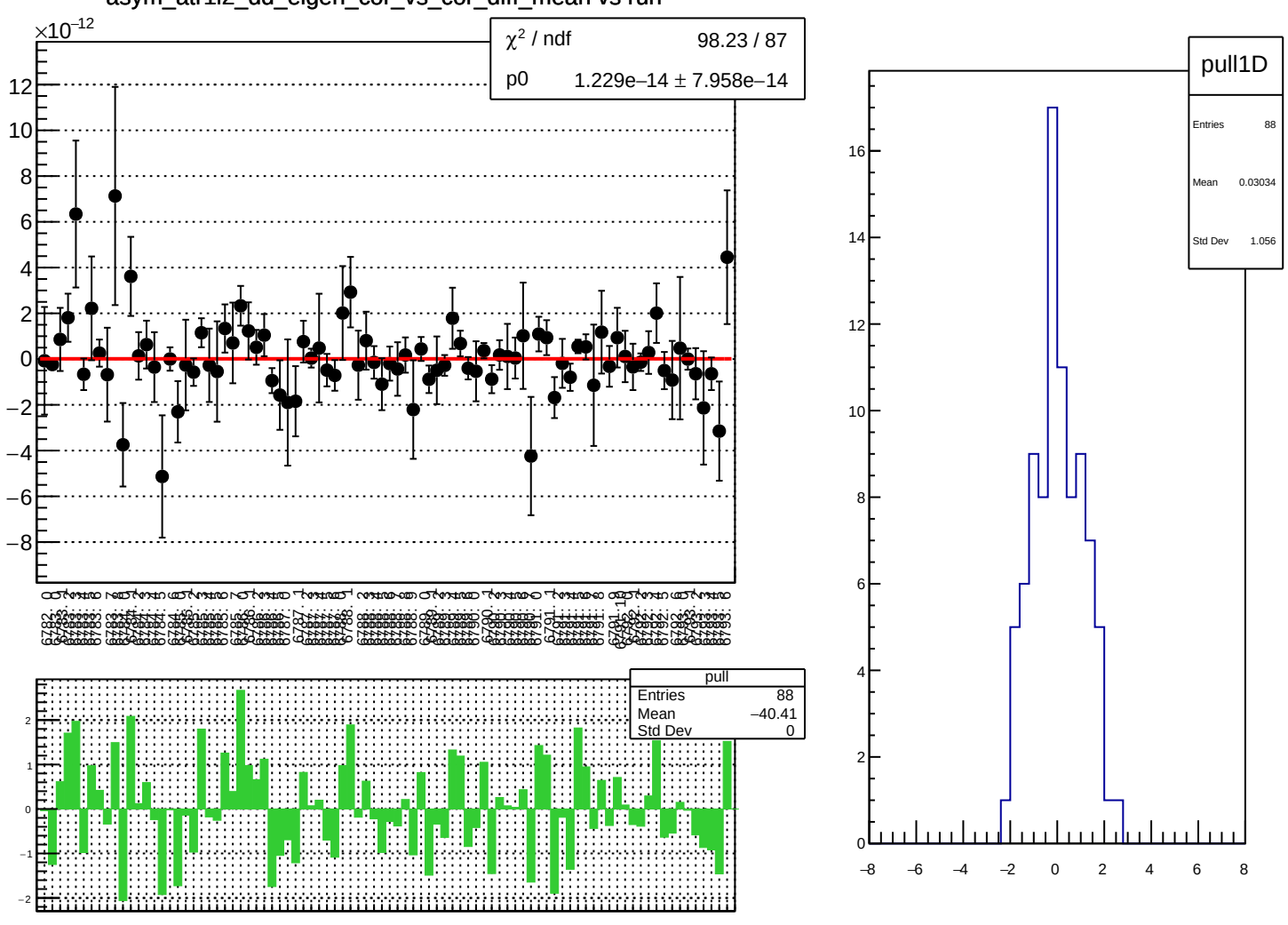

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.85 / 87
p0 0.4502 ± 0.3058
pull
Entries 88
Mean 275.4
Std Dev 0
pull1D
Entries 88
Mean 0.01206
Std Dev 0.9222

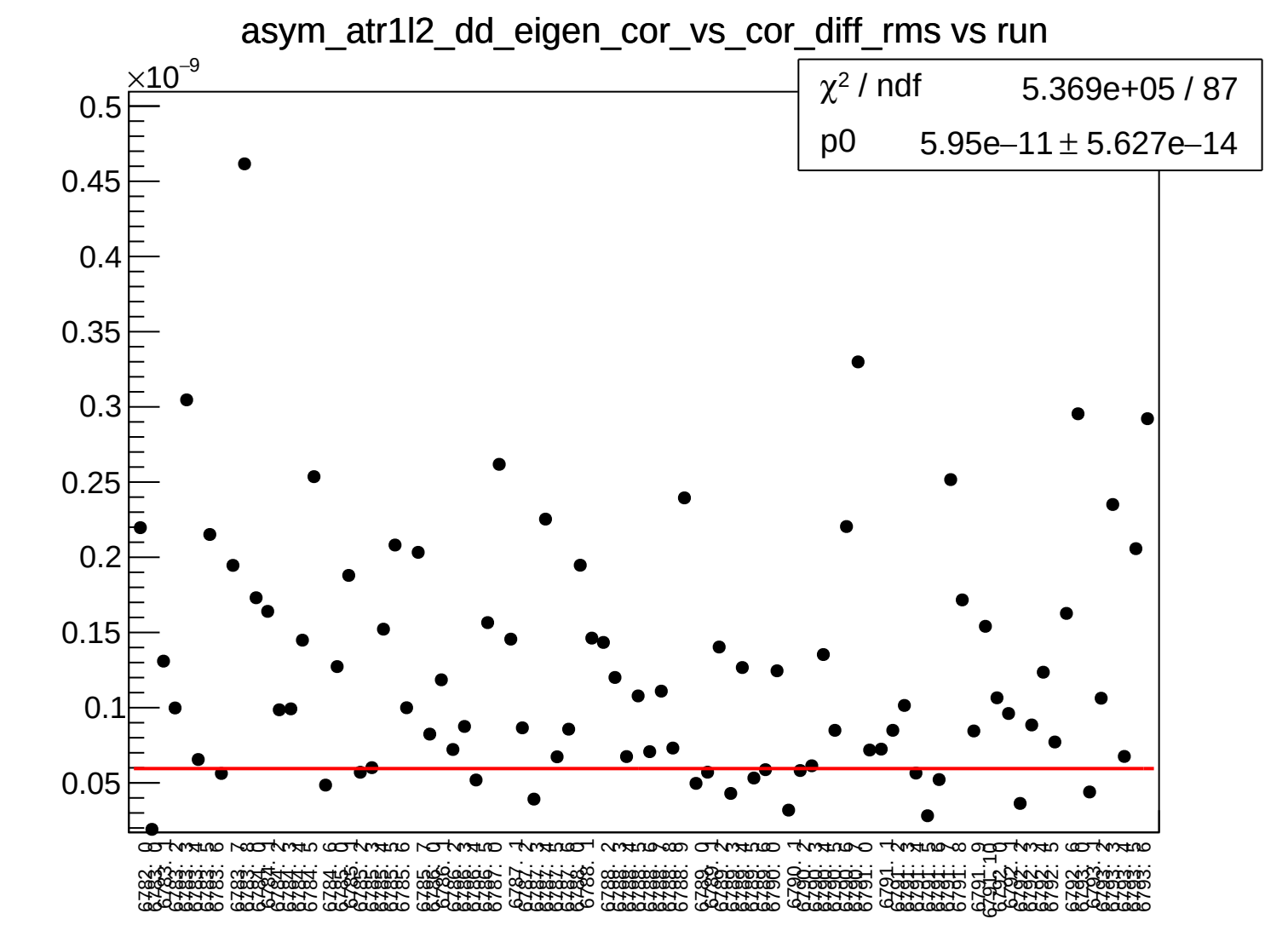

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9706 / 87
p0 277.4 ± 0.2163
340
320
300
280
260
240

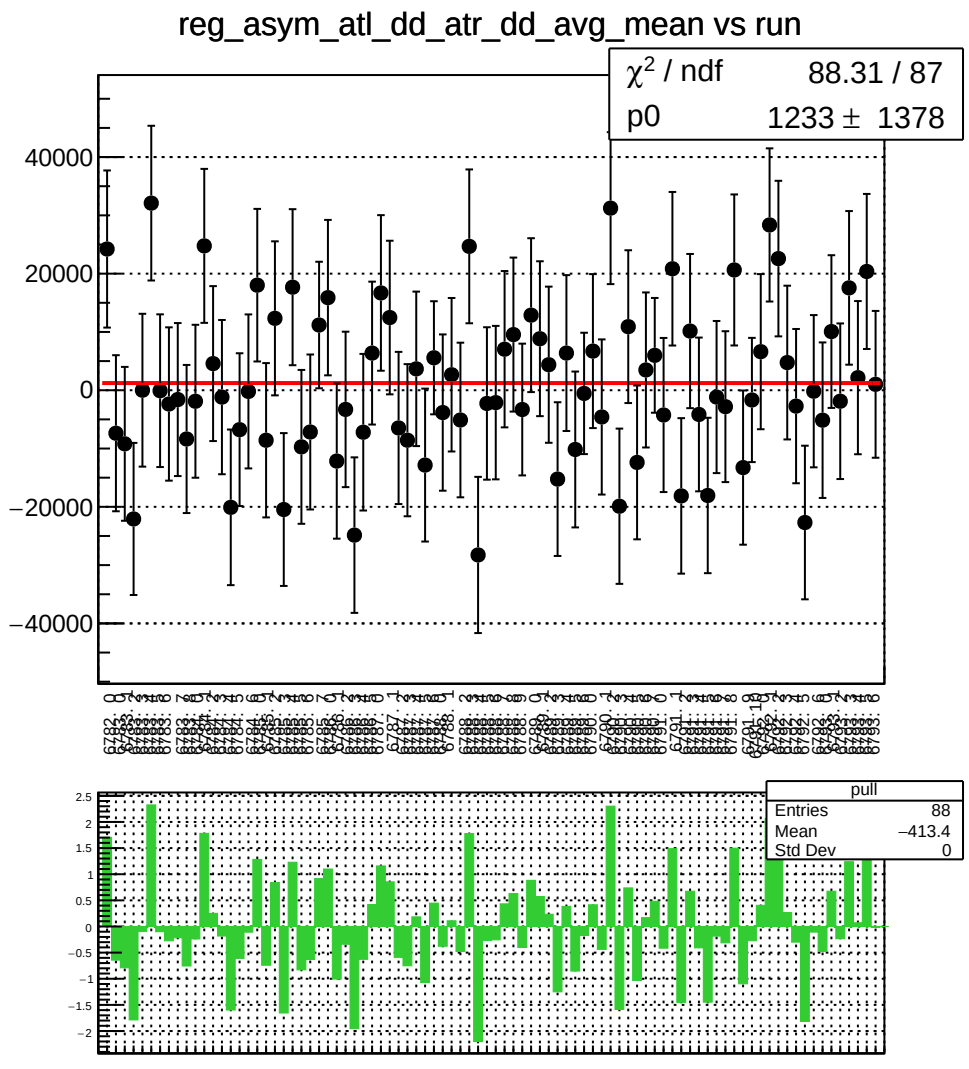

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.85 / 87
p0 0.4502 ± 0.3058
pull
Entries 88
Mean 275.4
Std Dev 0

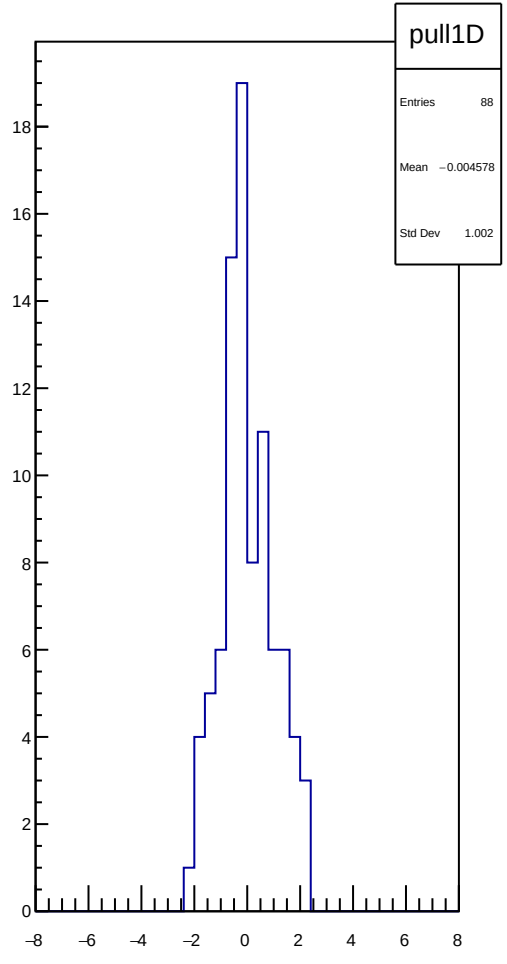

pull1D
Entries 88
Mean 0.01206
Std Dev 0.9222

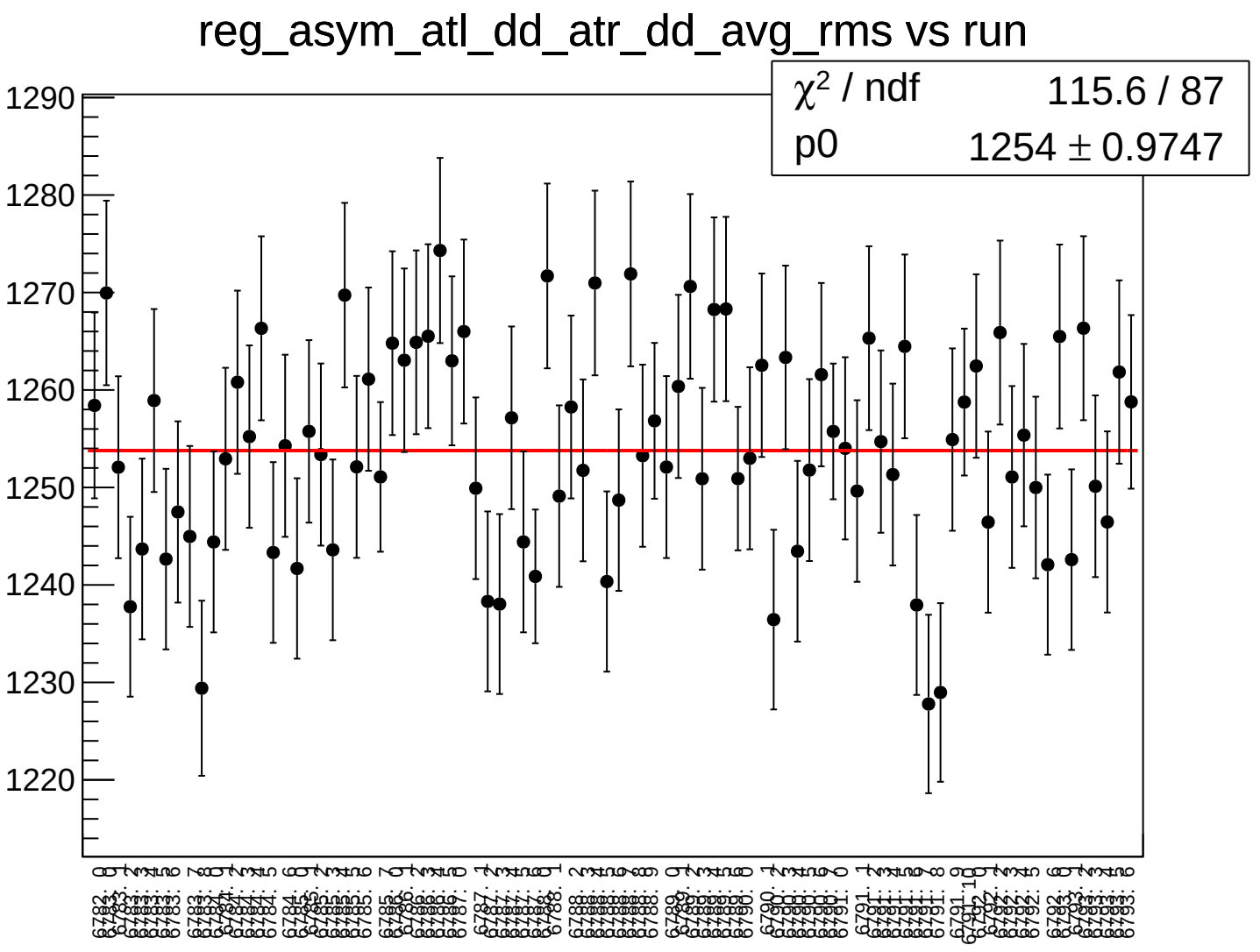

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9706 / 87
p0 277.4 ± 0.2163
340
320
300
280
260
240

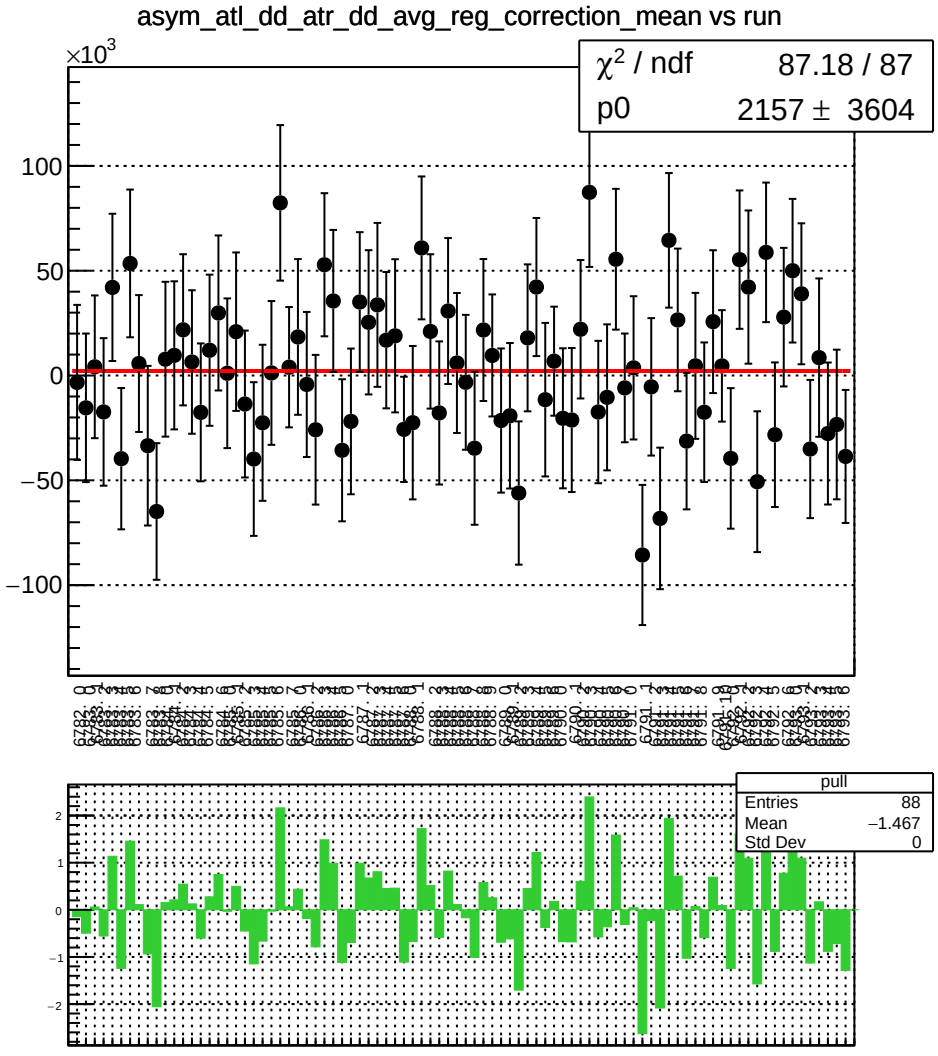

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.23 / 87
p0 1.229e−14 ± 7.958e−14
pull
Entries 88
Mean −40.41
Std Dev 0
pull1D
Entries 88
Mean 0.03034
Std Dev 1.056

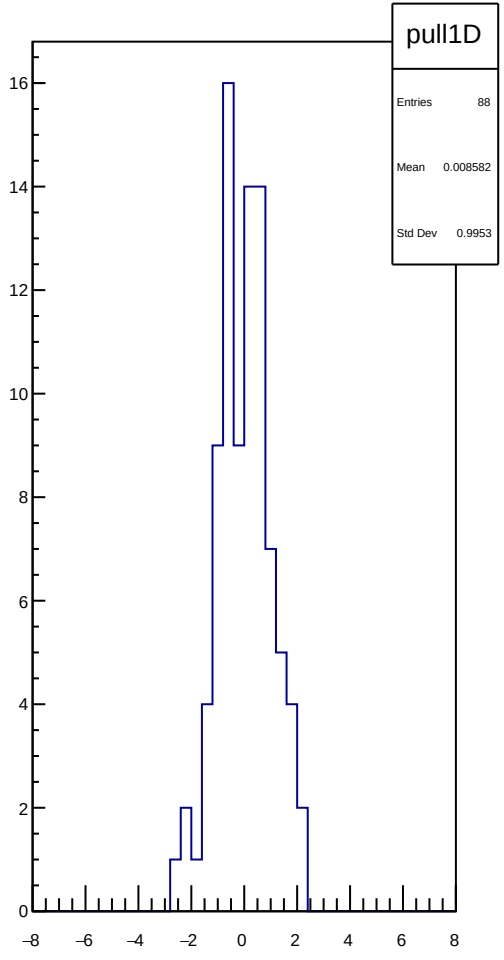

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.369e+05 / 87
p0 5.95e−11 ± 5.627e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

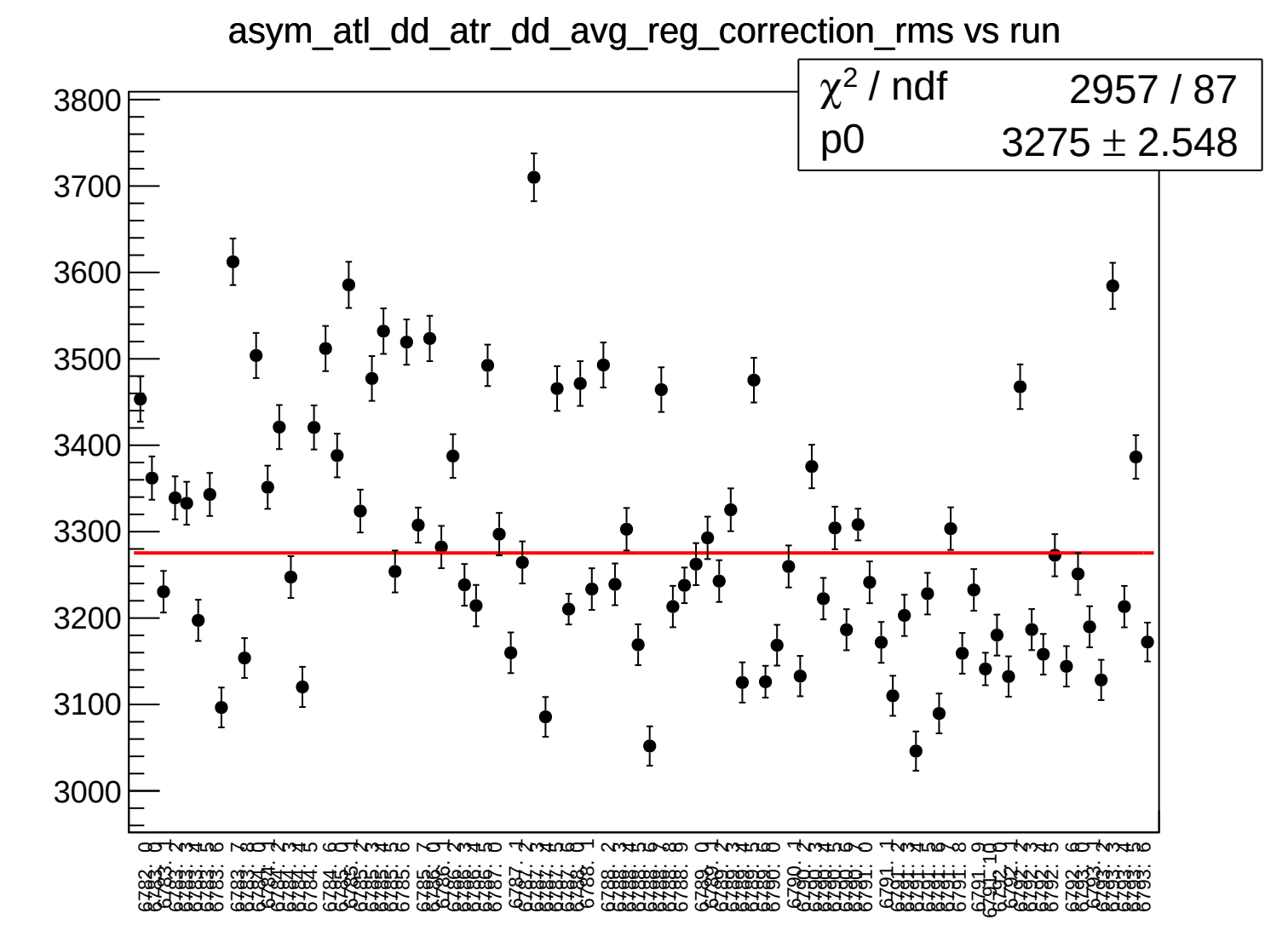

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.31 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

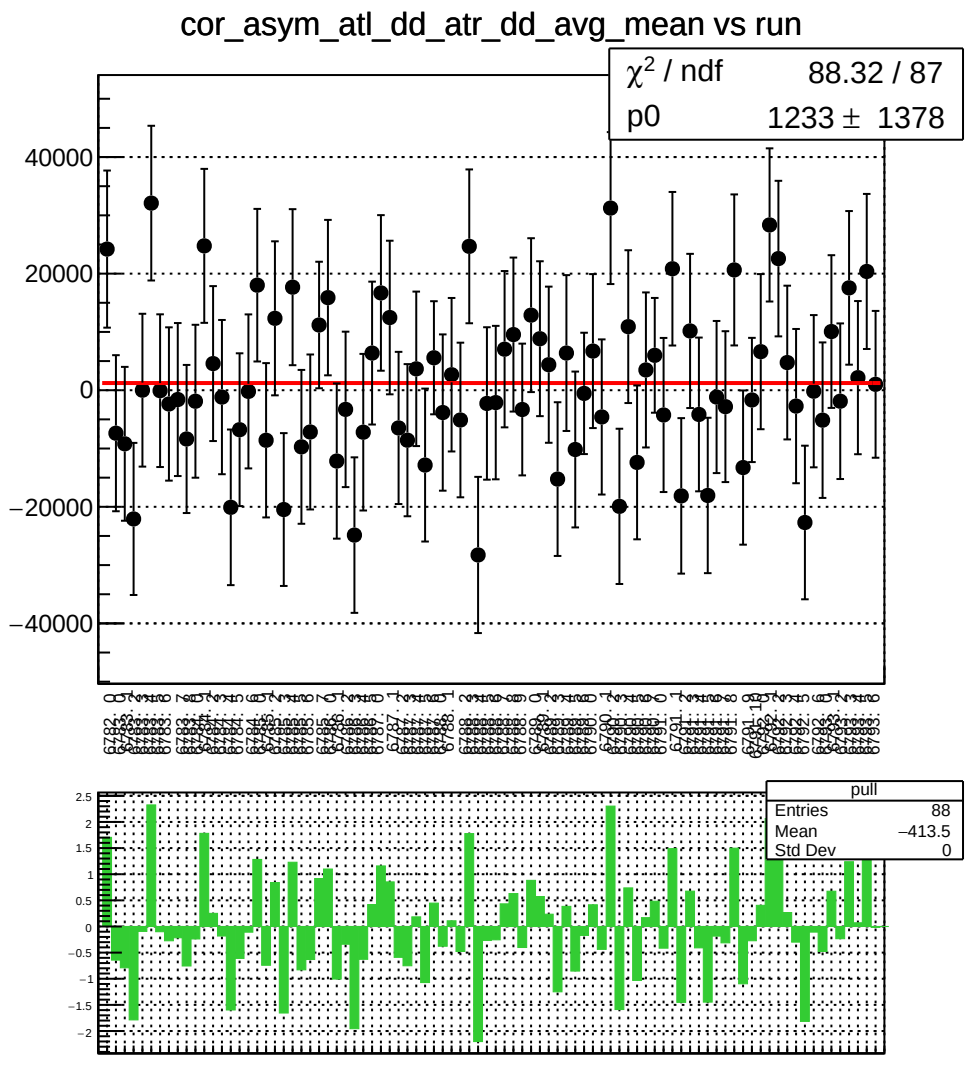

pull1D
Entries 88
Mean −0.004578
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

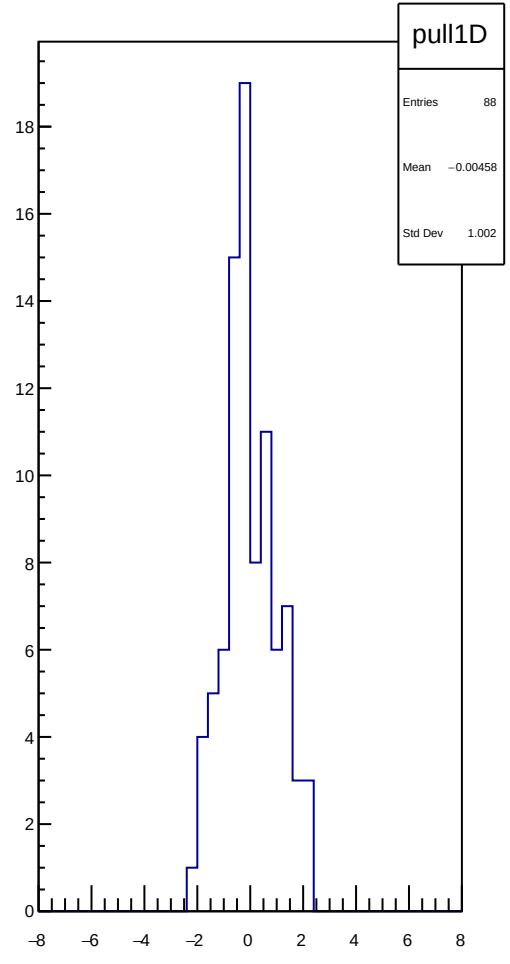

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

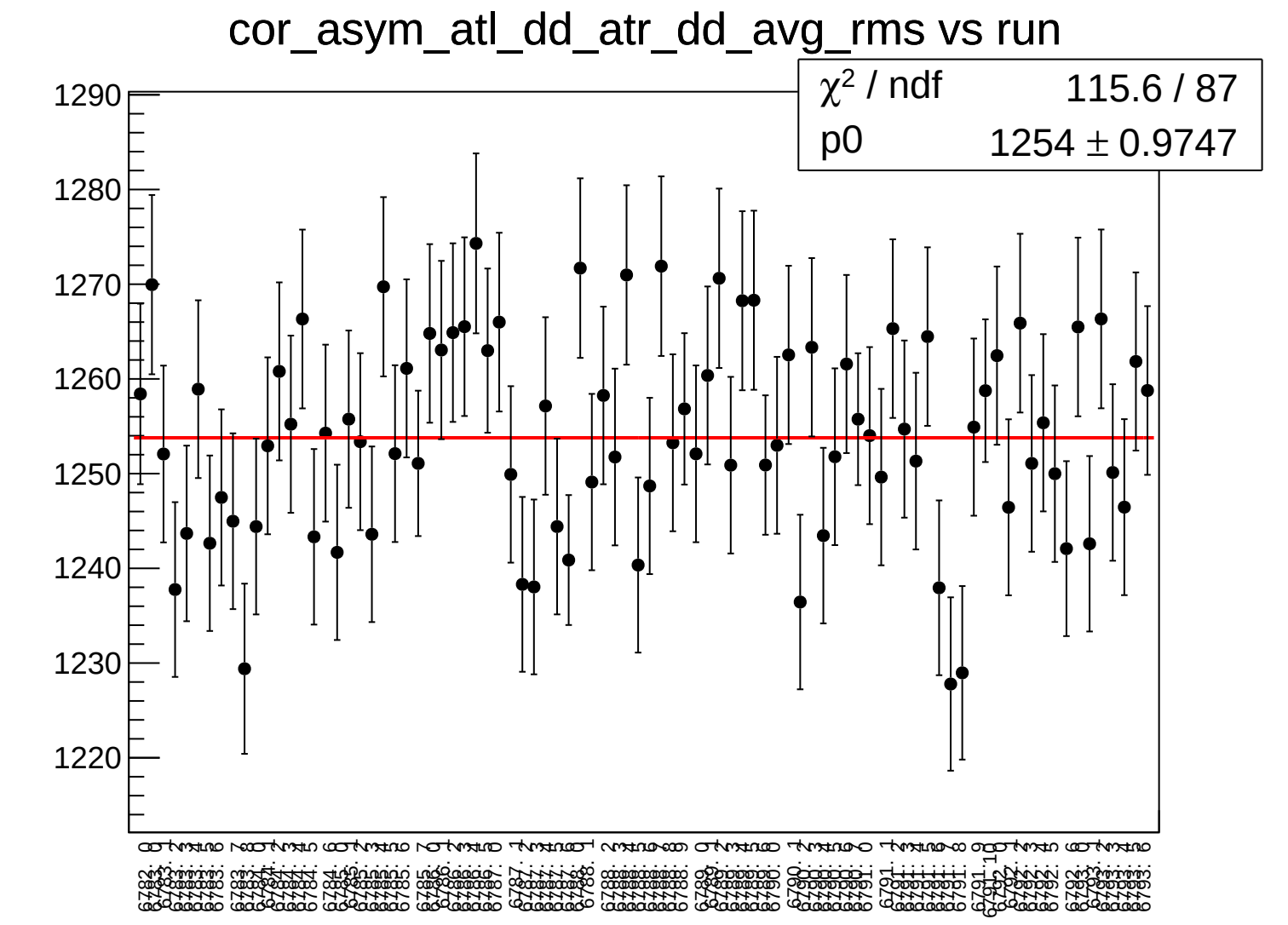

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.18 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.467
Std Dev 0
2
1
0
−1
−2

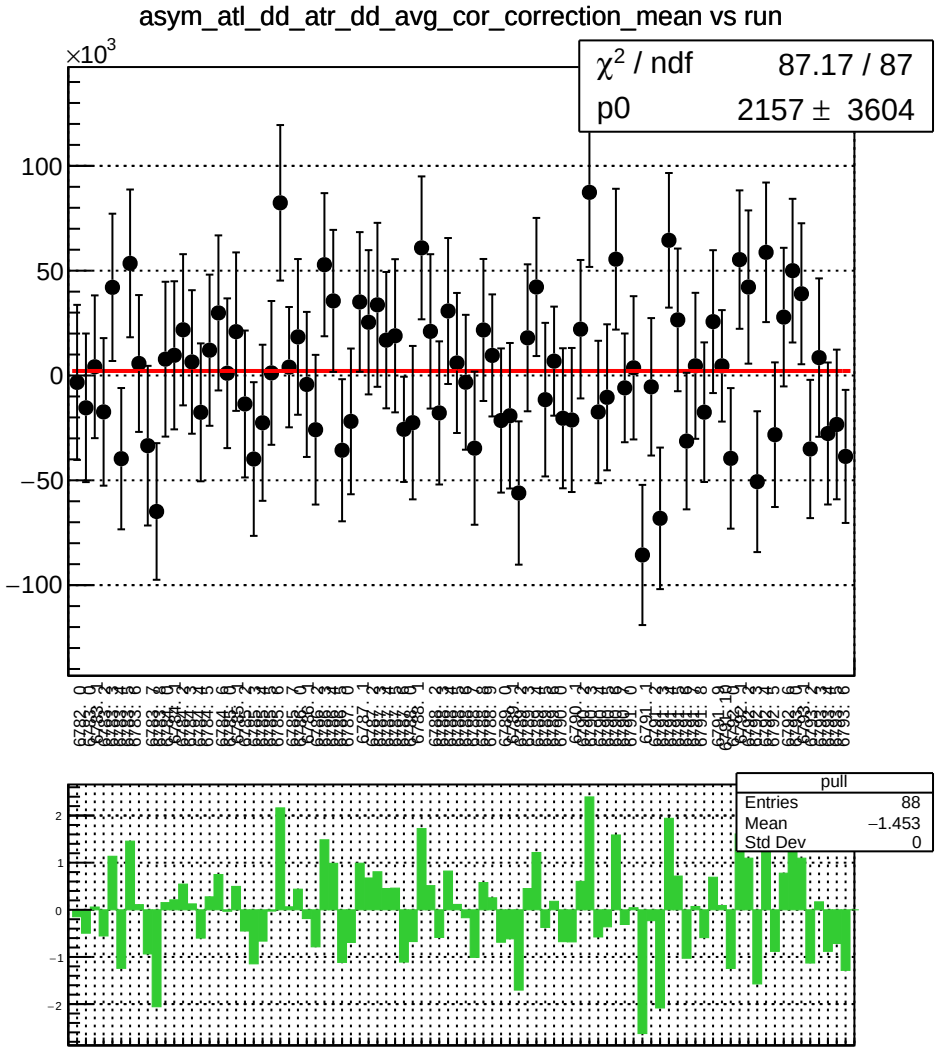

pull1D
Entries 88
Mean 0.008582
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

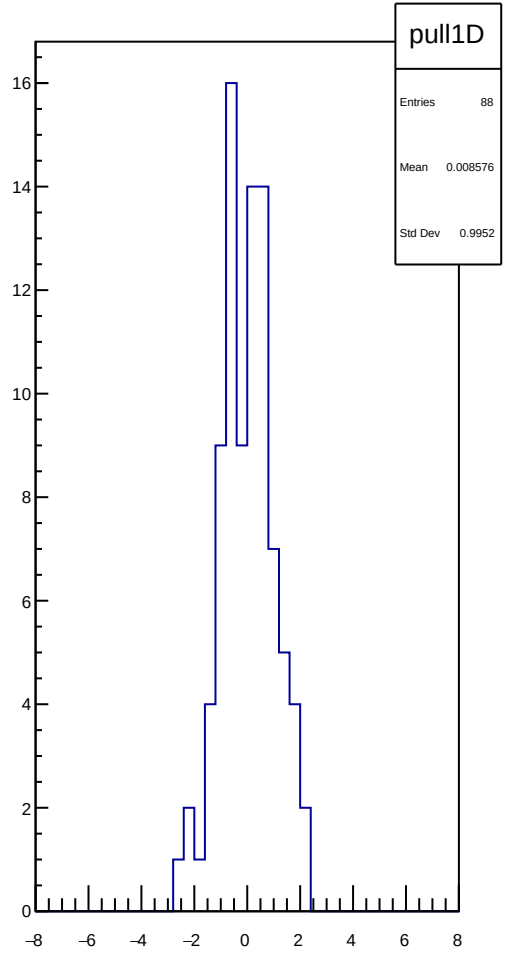

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

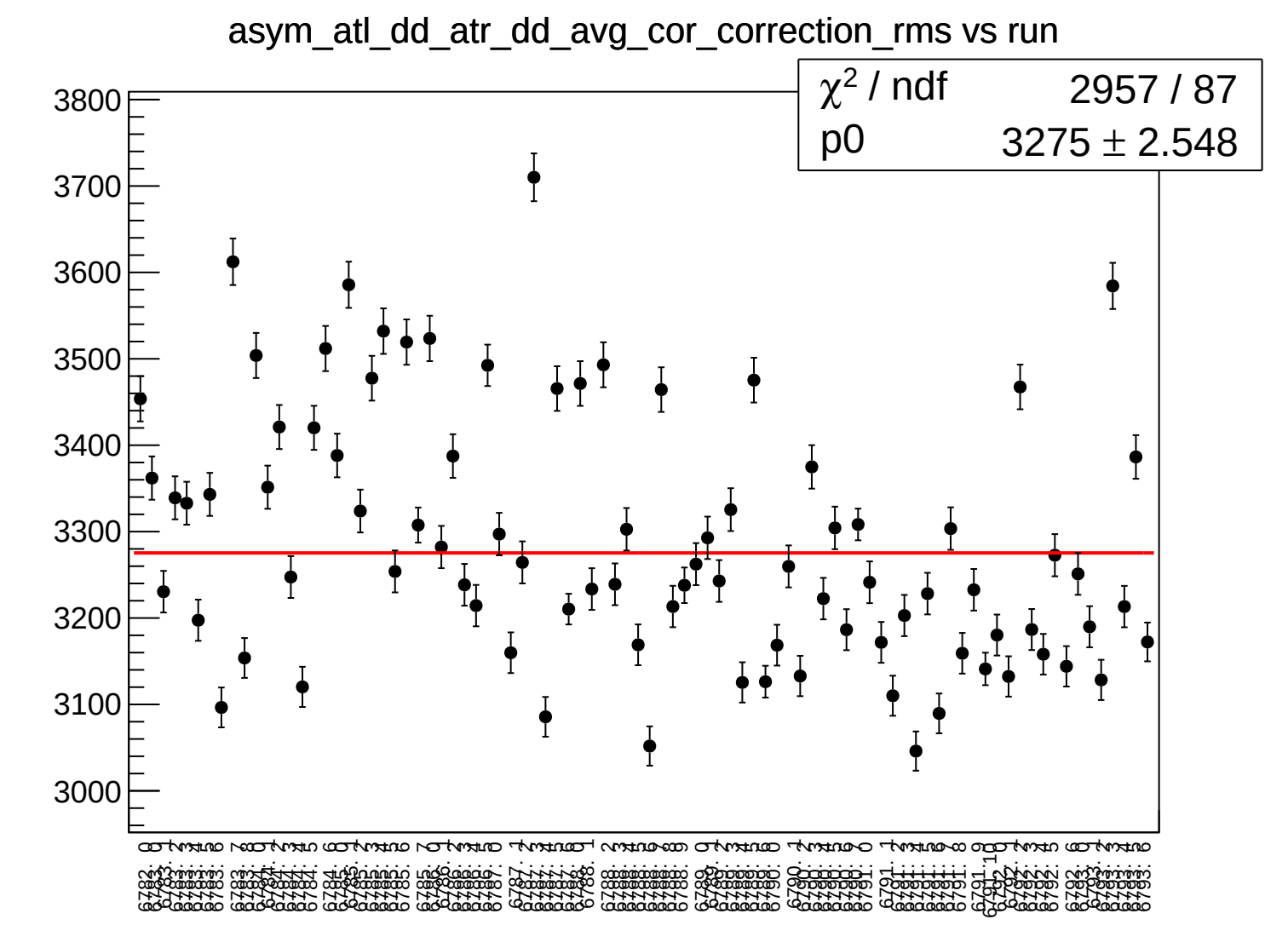

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.32 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

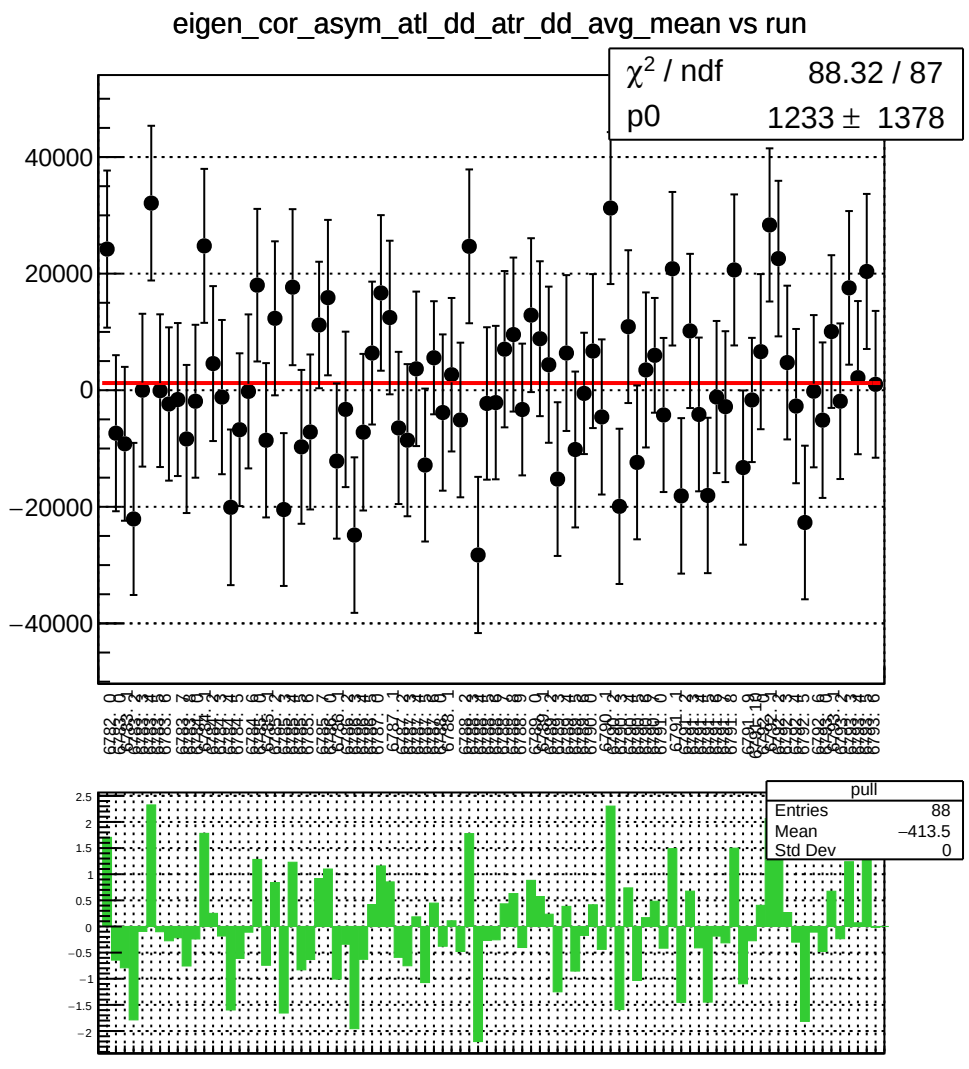

pull1D
Entries 88
Mean −0.00458
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

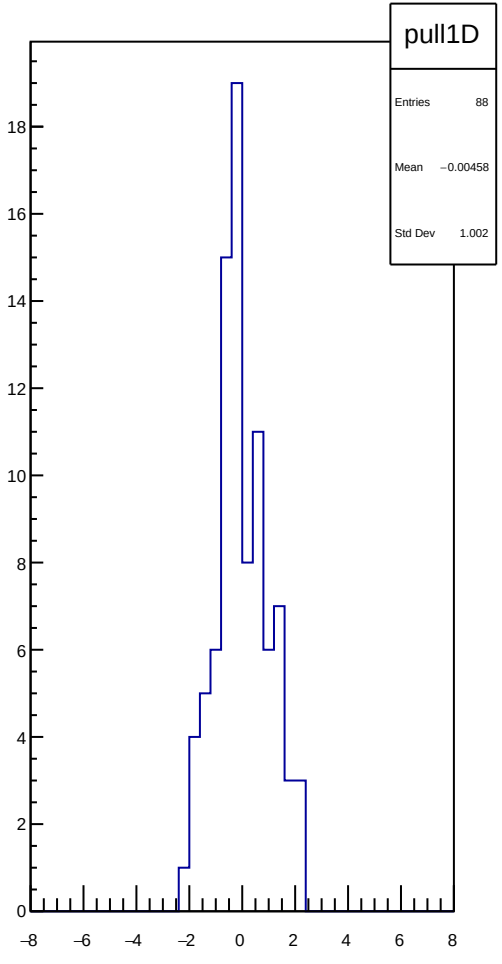

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

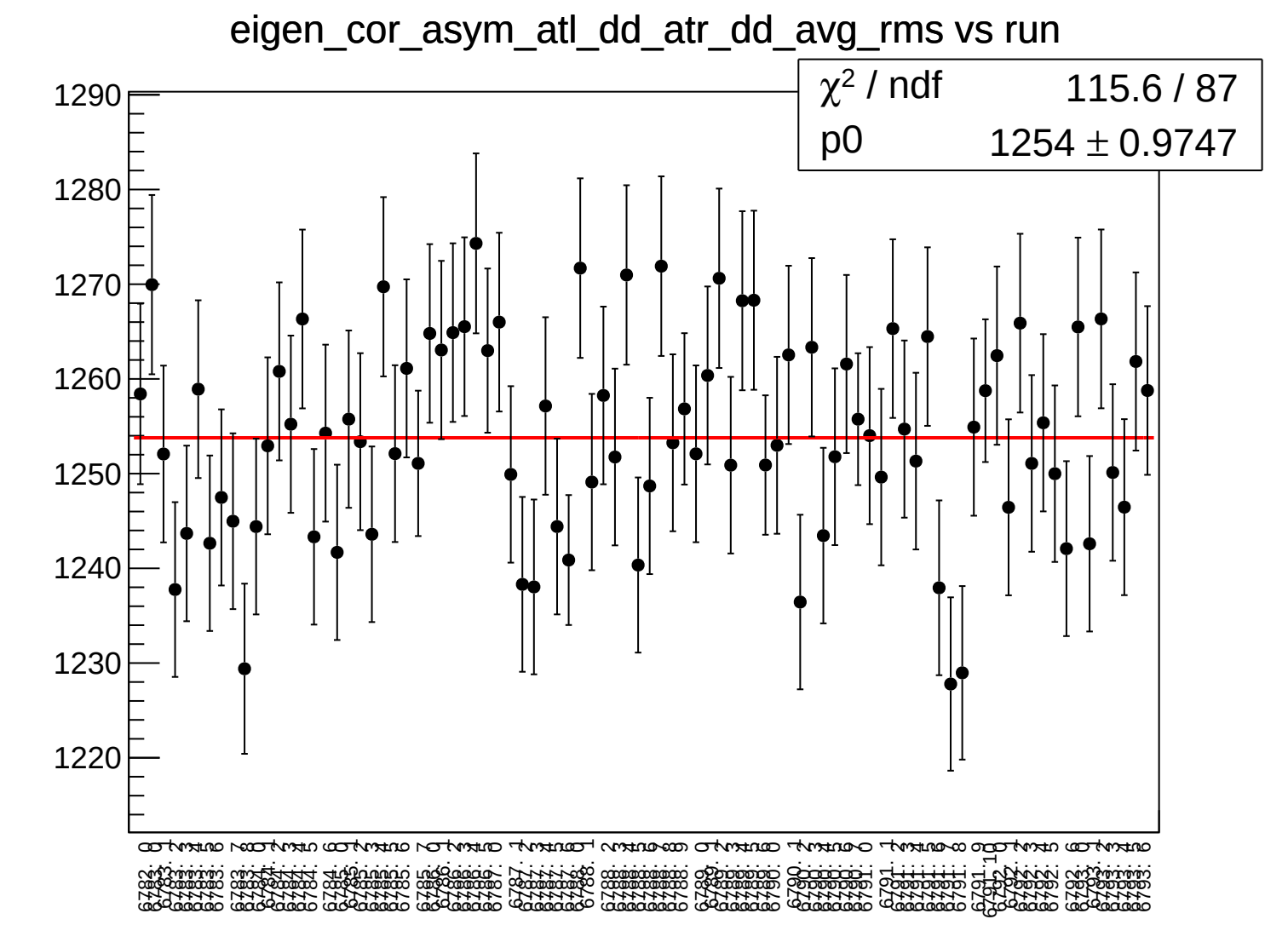

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 87.17 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.453
Std Dev 0
2
1
0
−1
−2

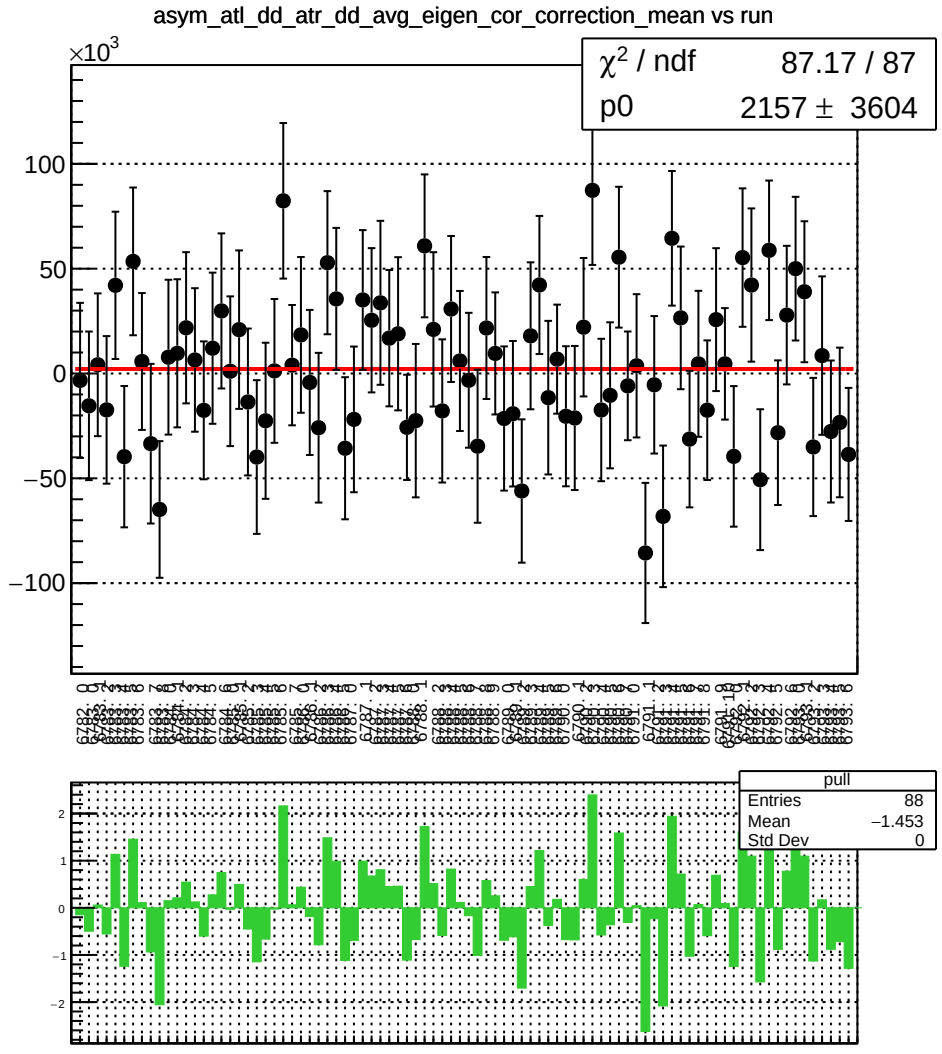

pull1D
Entries 88
Mean 0.008576
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

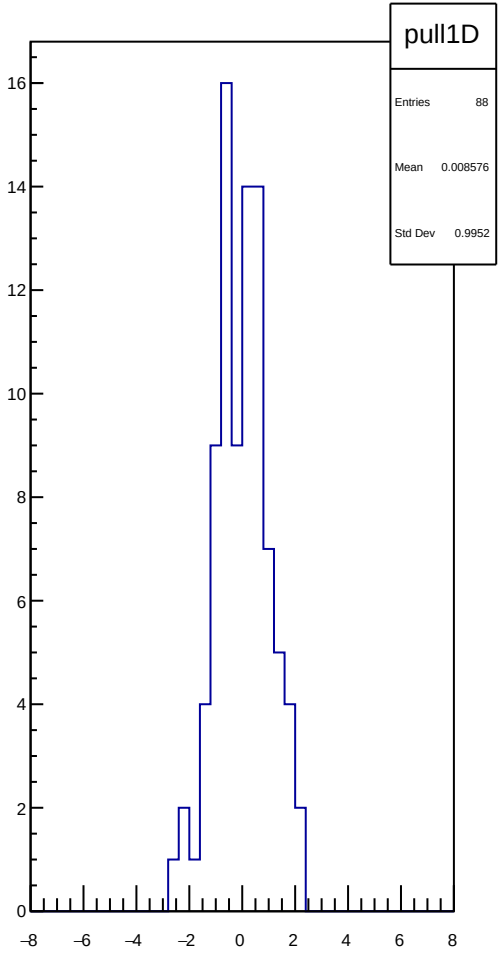

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

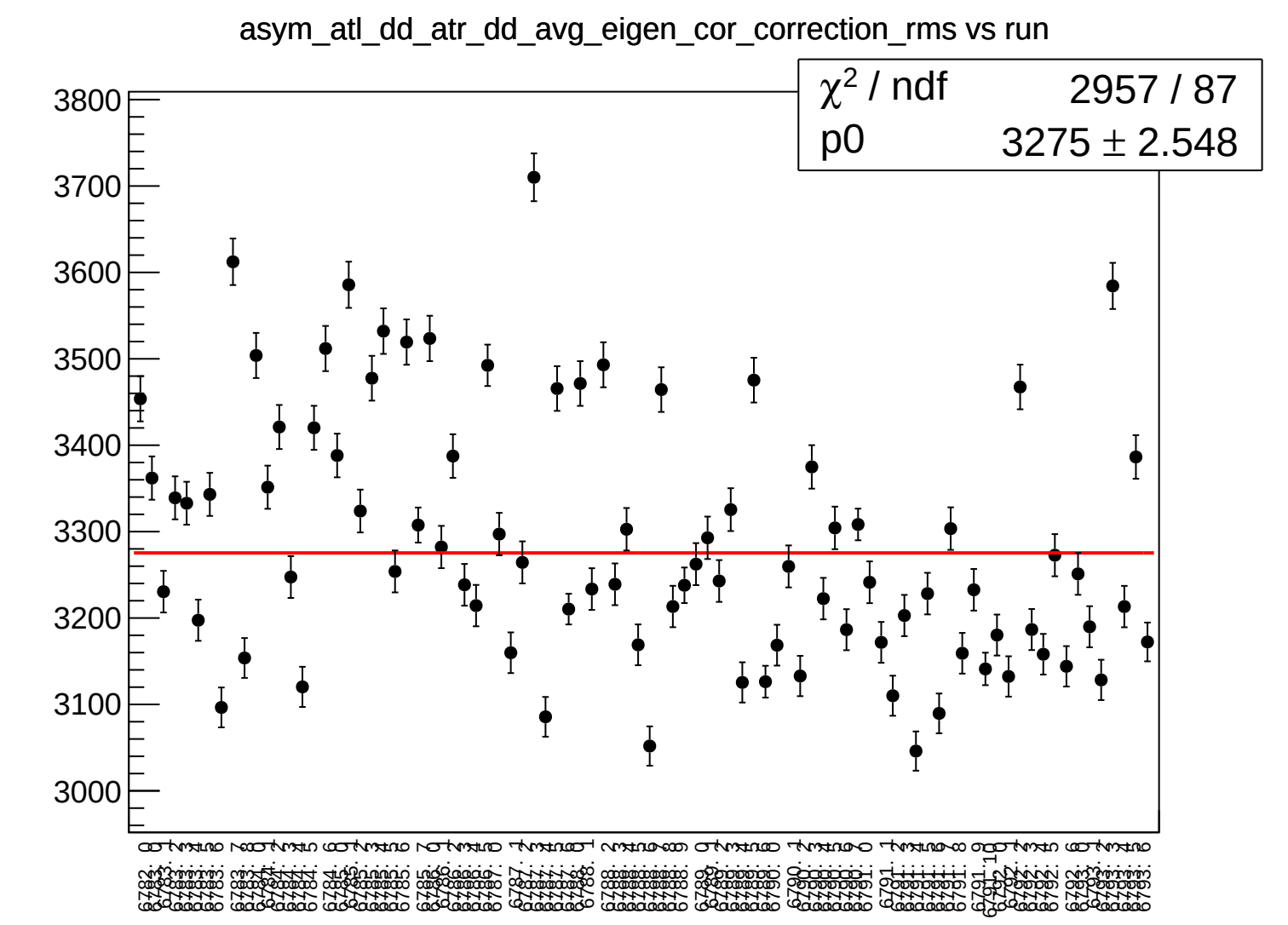

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.32 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

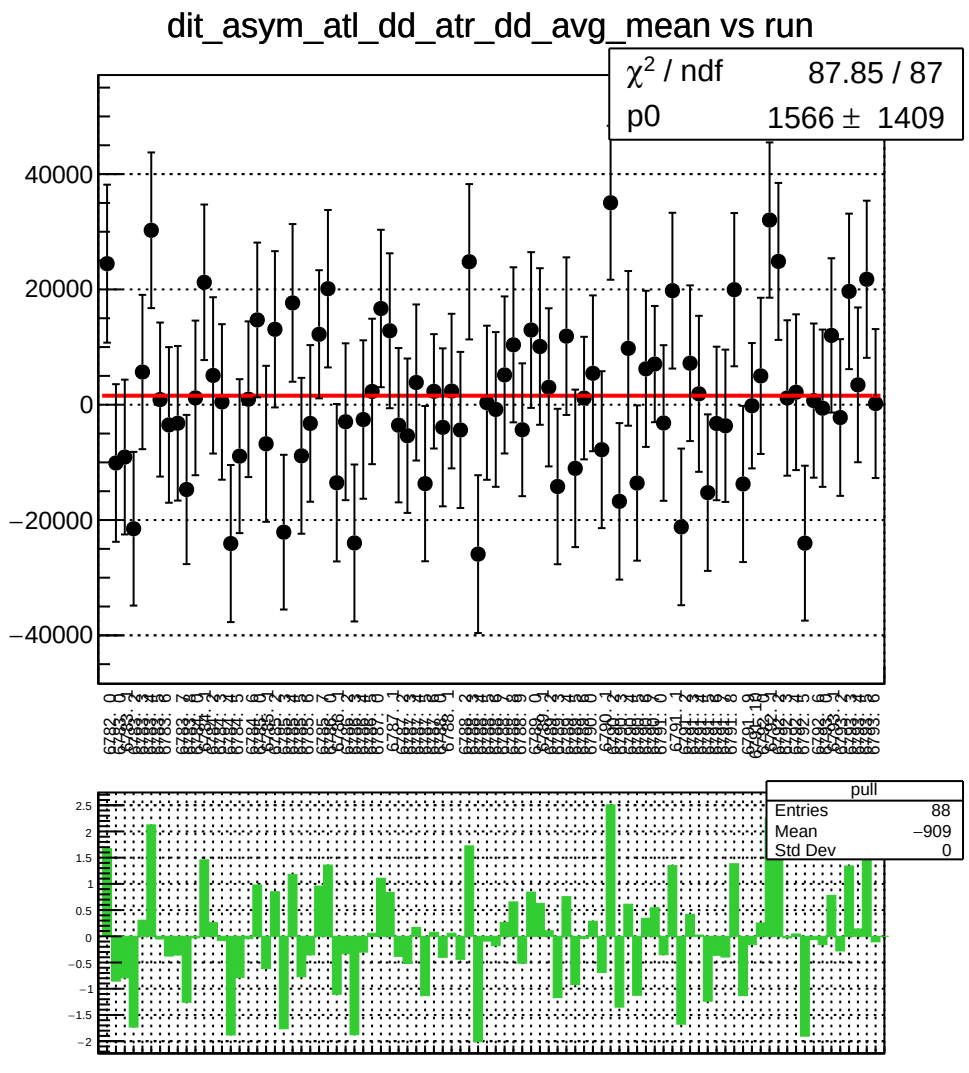

pull1D
Entries 88
Mean −0.00458
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

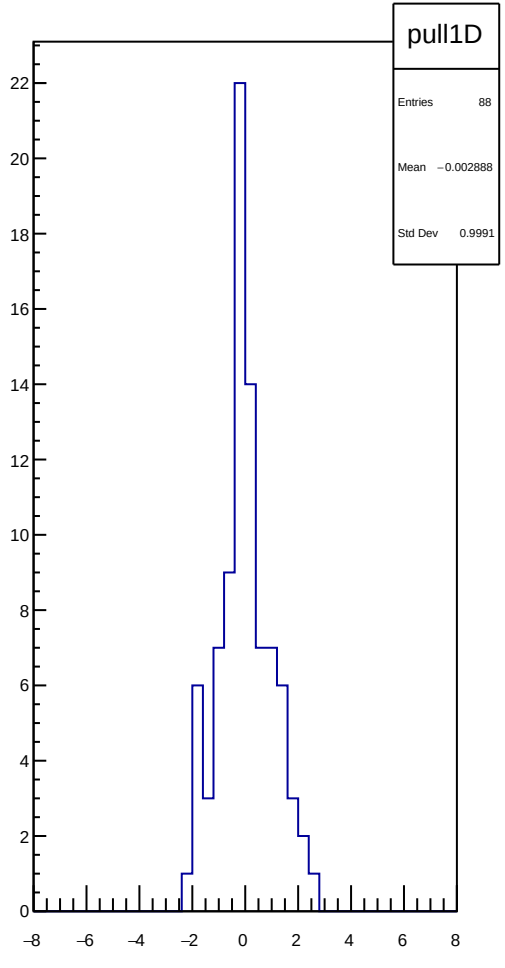

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

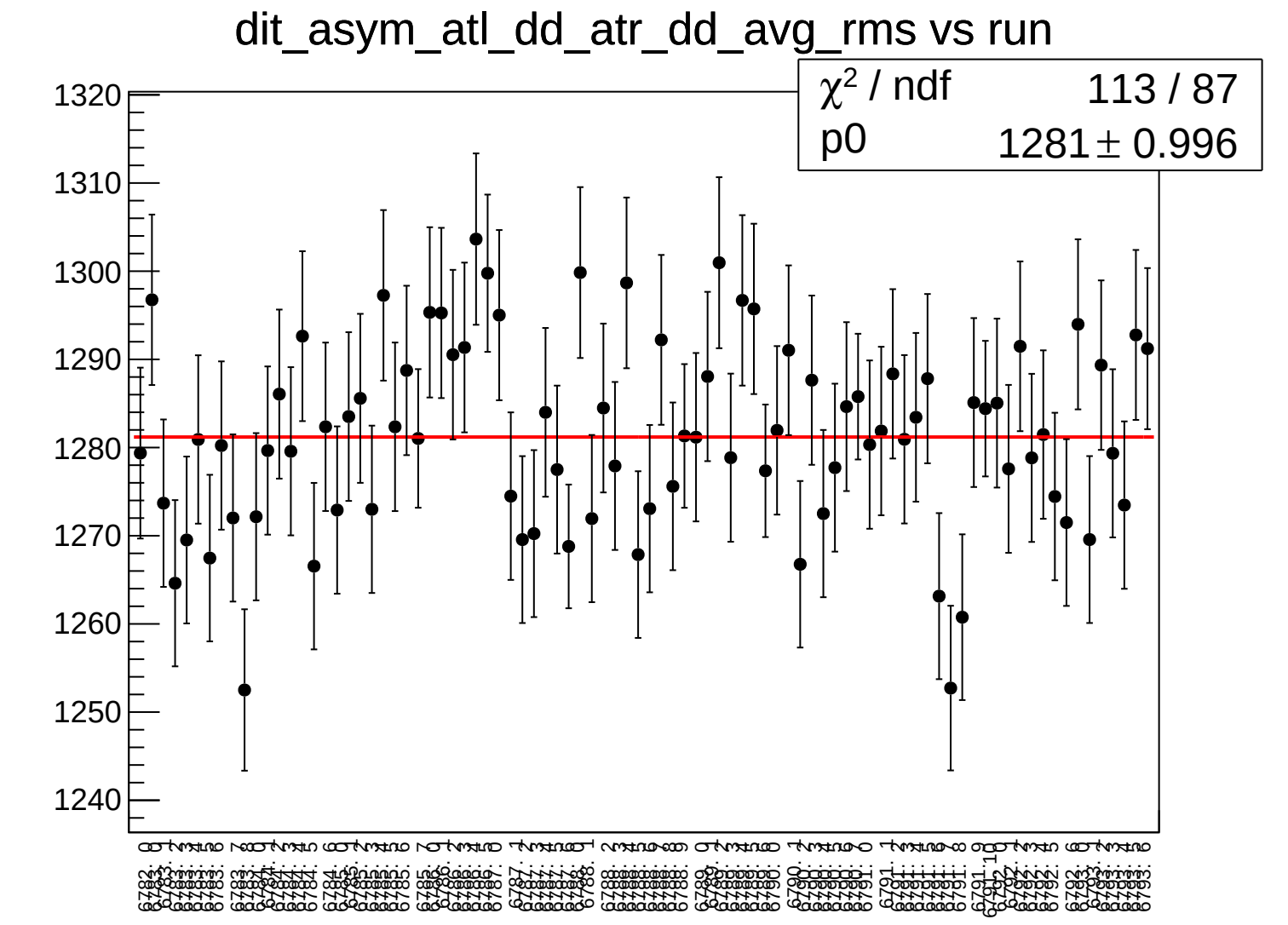

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.17 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.453
Std Dev 0
2
1
0
−1
−2

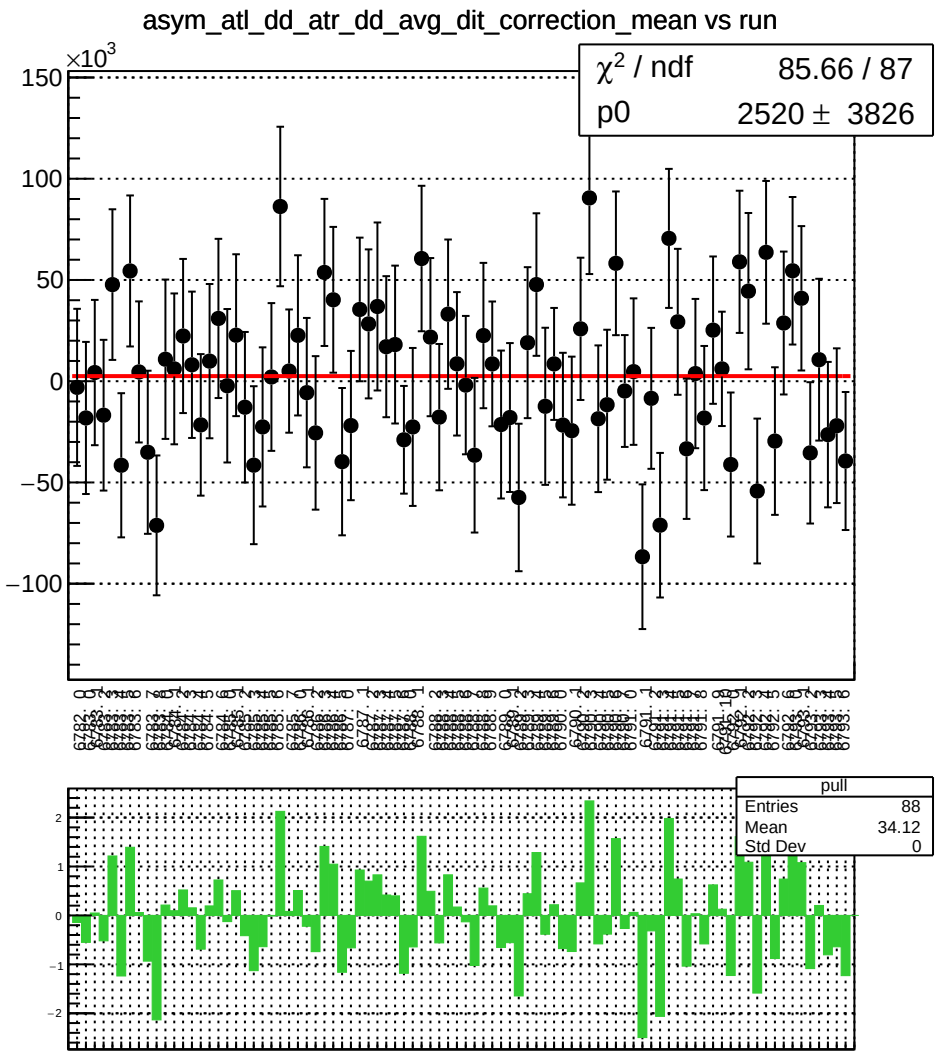

pull1D
Entries 88
Mean 0.008576
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

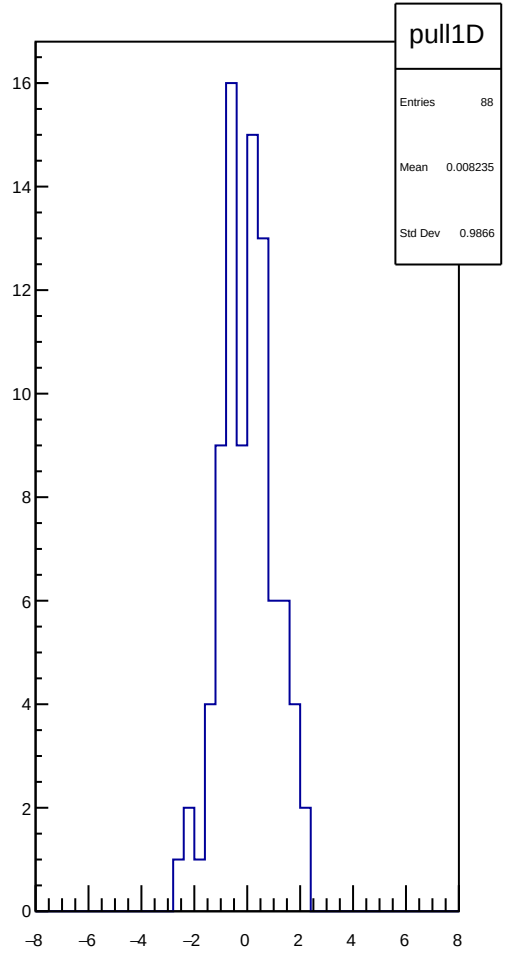

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

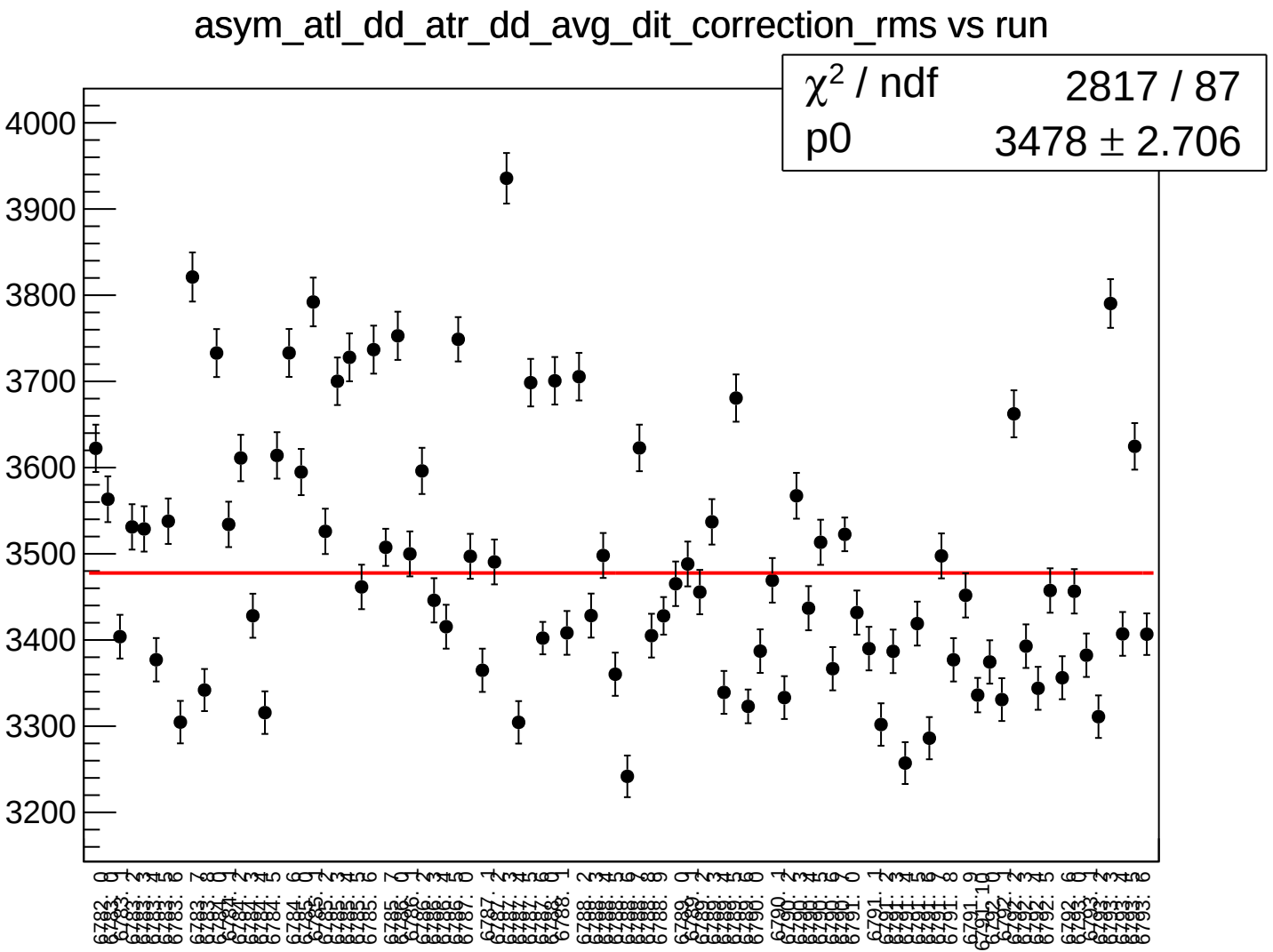

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.85 / 87
p0 1566 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −909
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

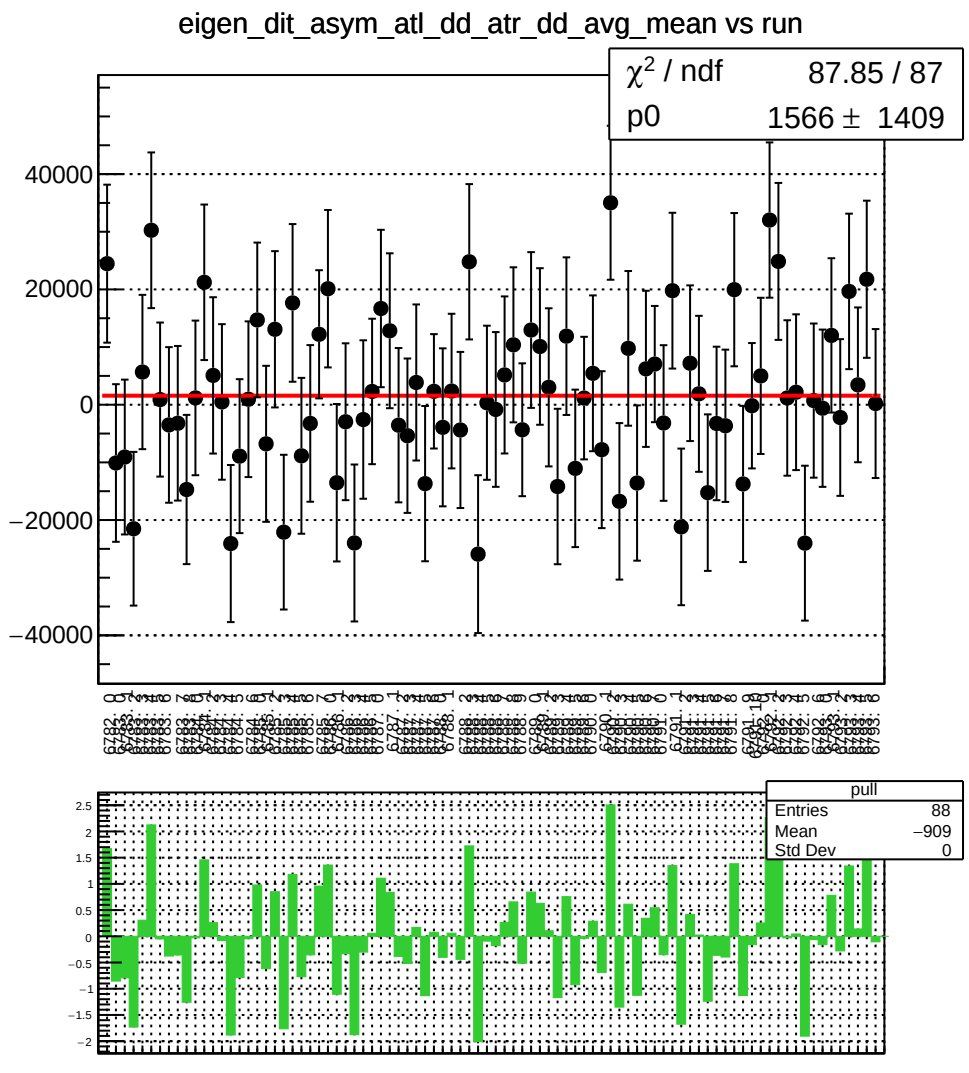

pull1D
Entries 88
Mean −0.002888
Std Dev 0.9991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

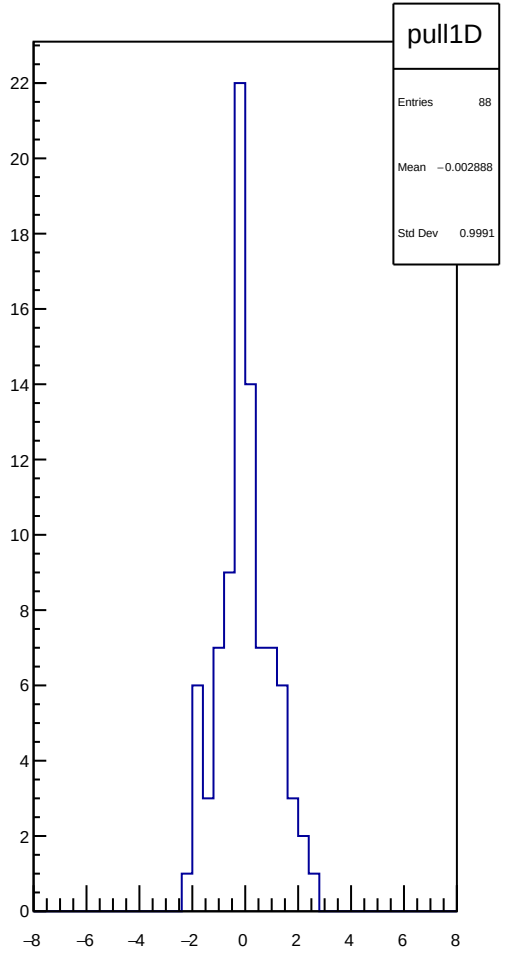

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 113 / 87
p0 1281 ± 0.996
1320
1310
1300
1290
1280
1270
1260
1250
1240

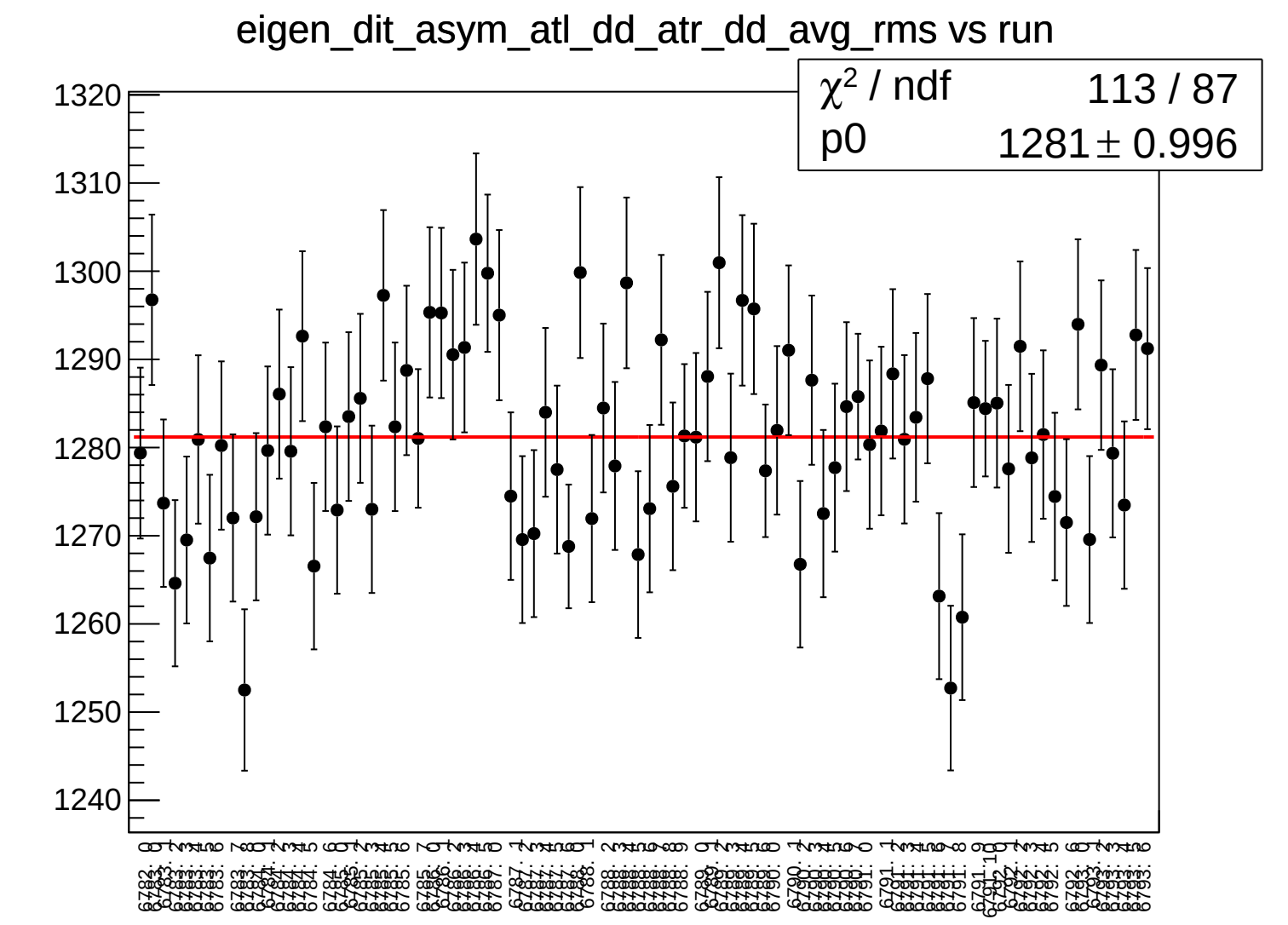

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 85.66 / 87
p0 2520 ± 3826
pull
Entries 88
Mean 34.12
Std Dev 0
2
1
0
−1
−2

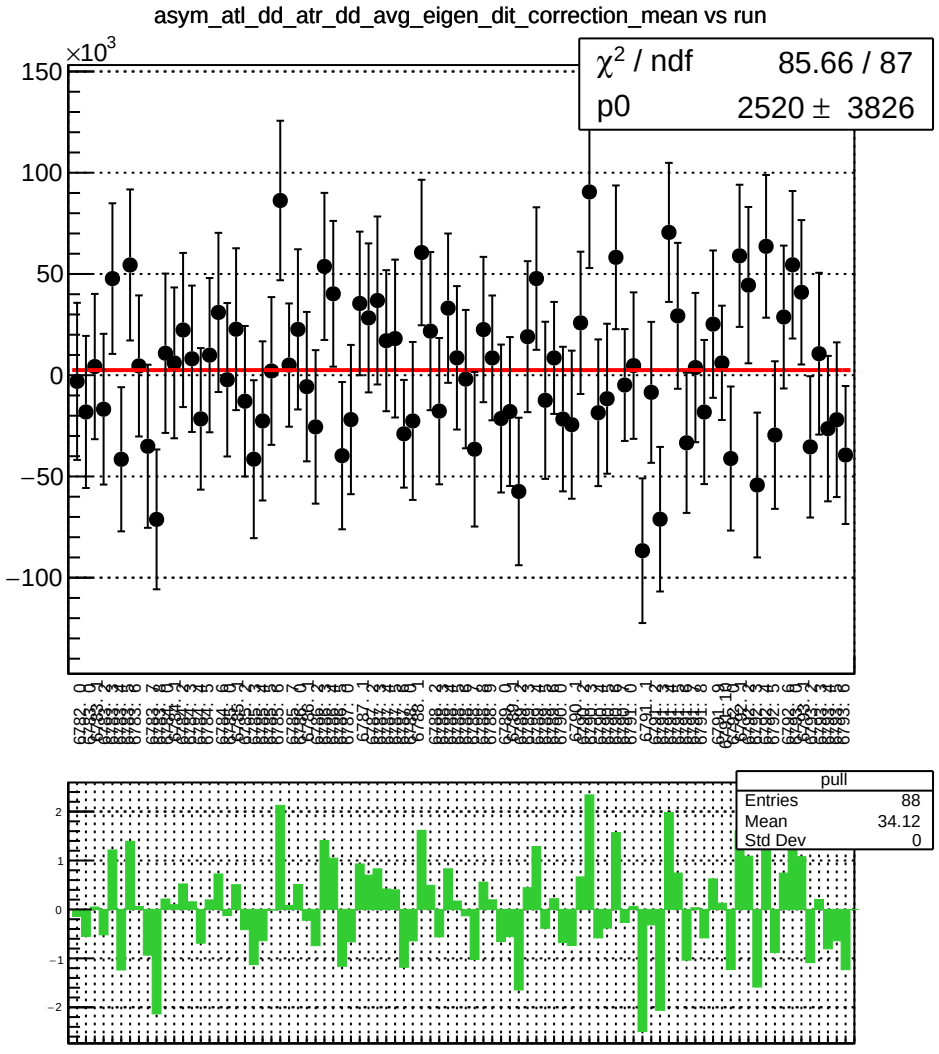

pull1D
Entries 88
Mean 0.008235
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

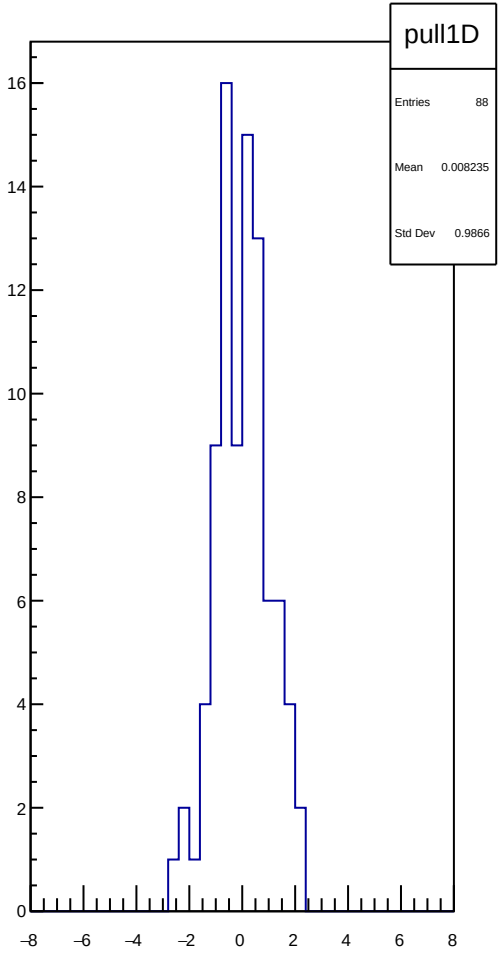

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 2817 / 87
p0 3478 ± 2.706
4000
3900
3800
3700
3600
3500
3400
3300
3200

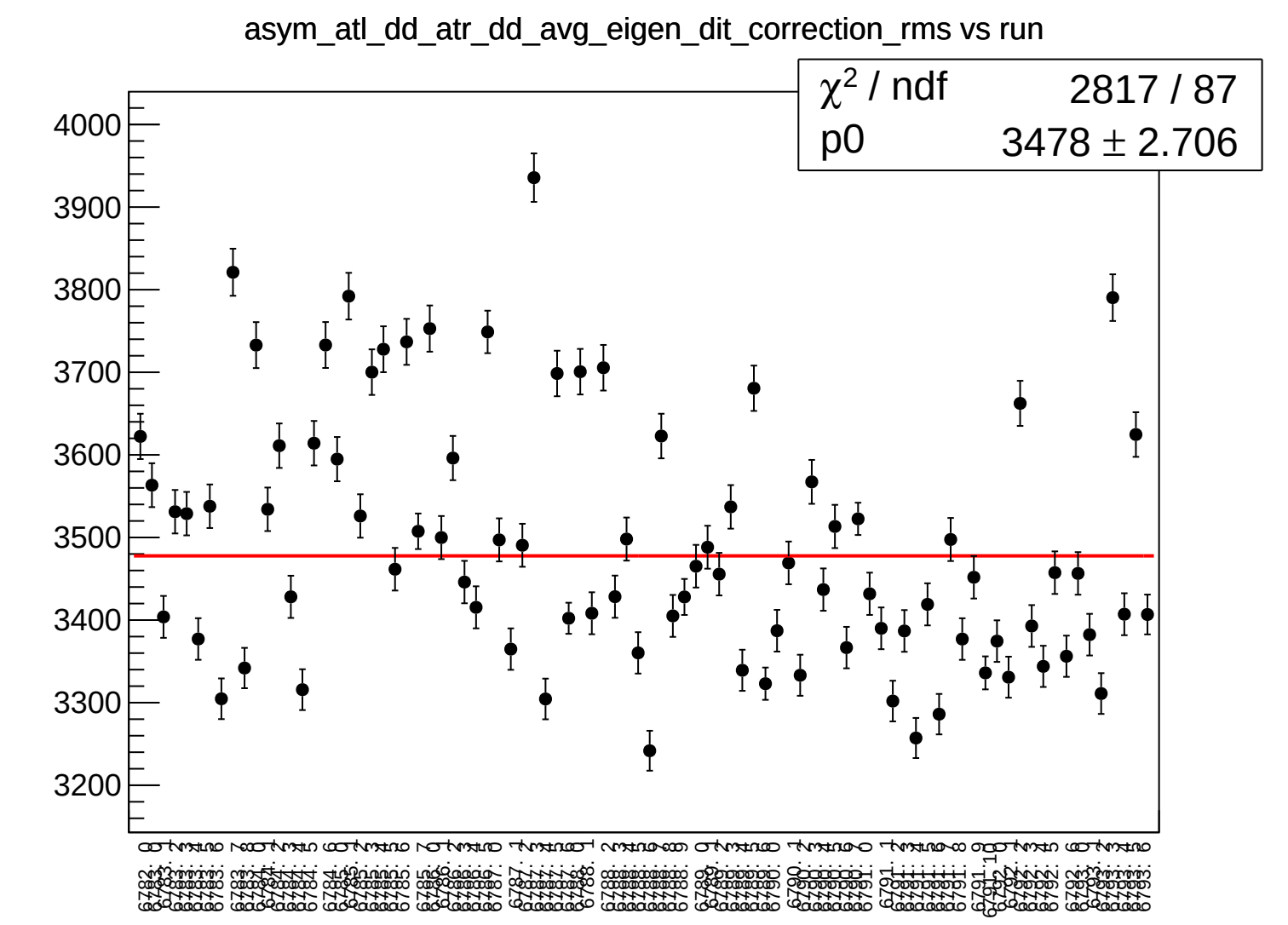

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.85 / 87
p0 1566 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −909
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

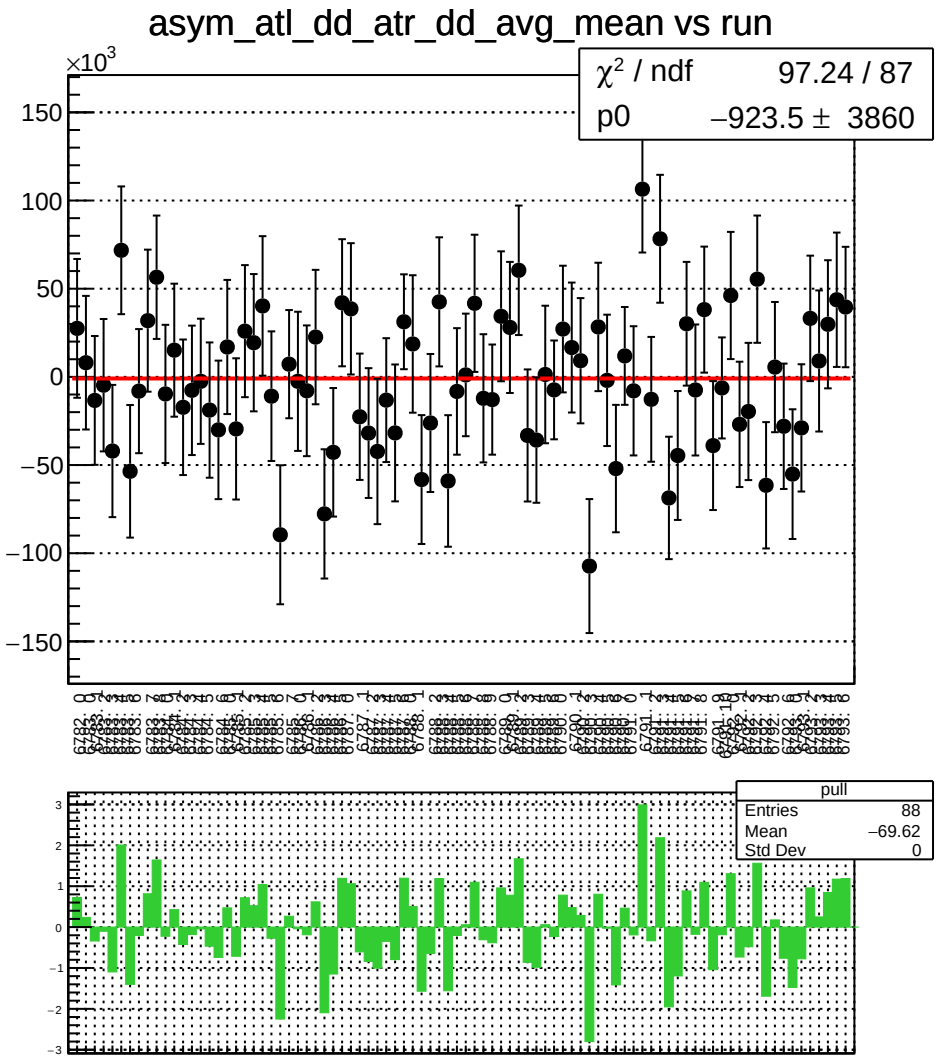

pull1D
Entries 88
Mean −0.002888
Std Dev 0.9991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

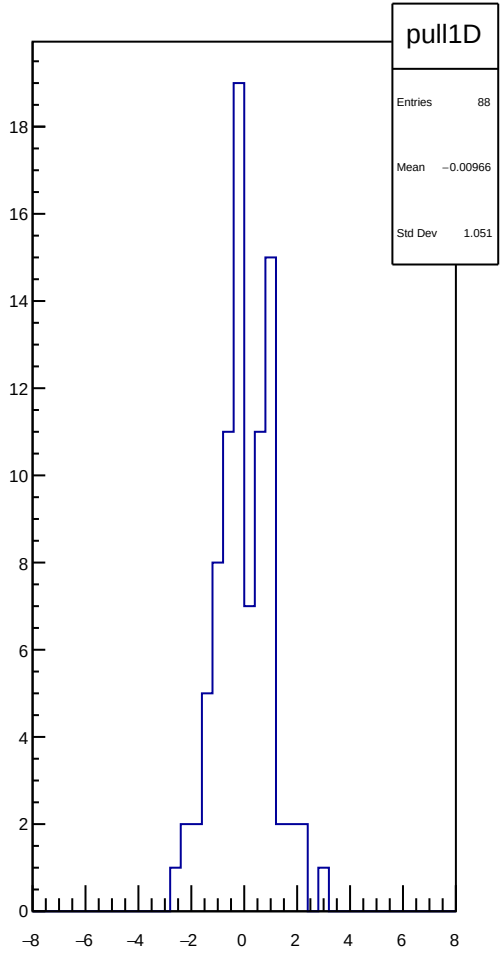

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 113 / 87
p0 1281 ± 0.996
1320
1310
1300
1290
1280
1270
1260
1250
1240

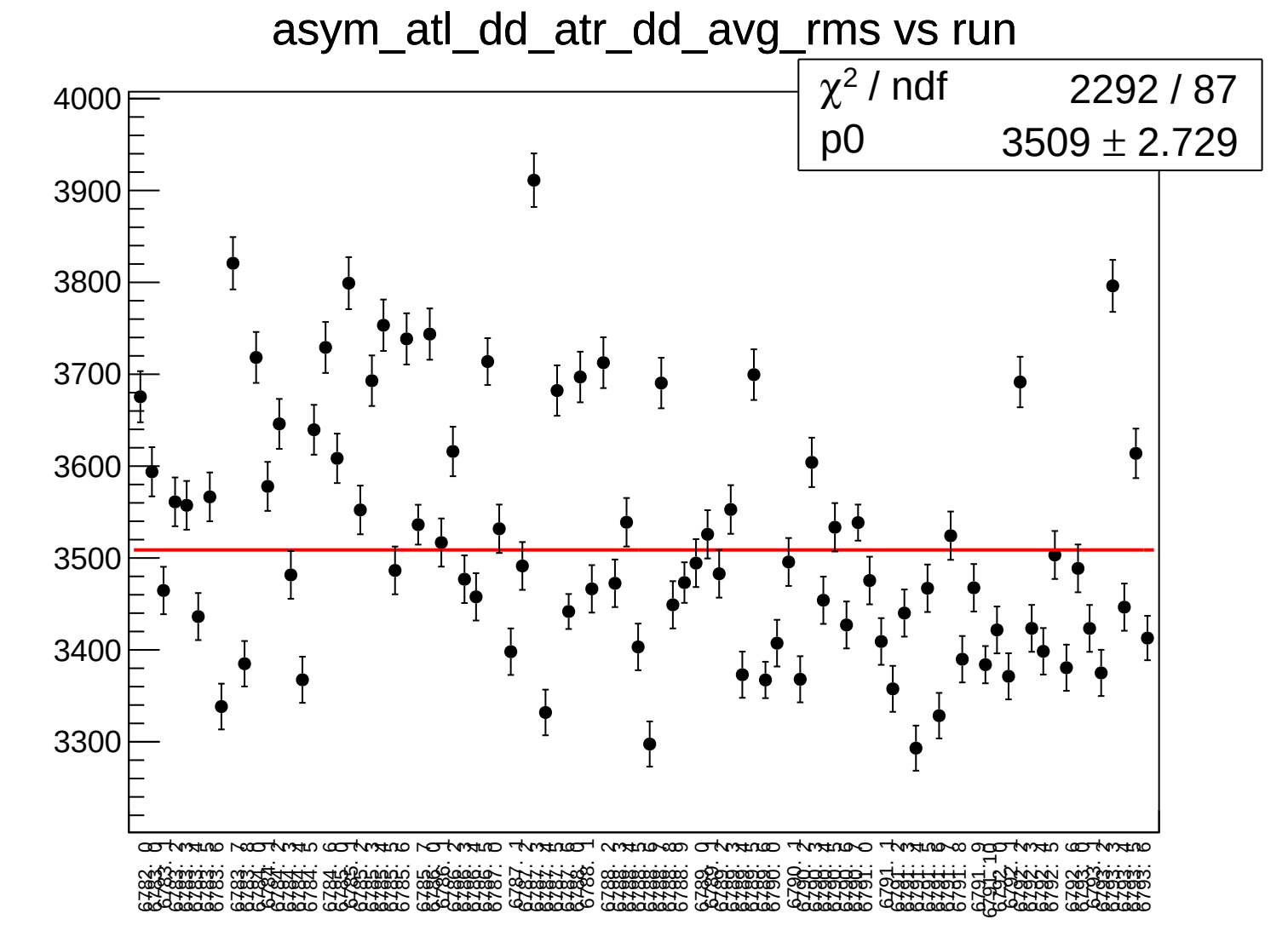

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.66 / 87
p0 2520 ± 3826
150
100
50
0
−50
−100
pull
Entries 88
Mean 34.12
Std Dev 0
2
1
0
−1
−2

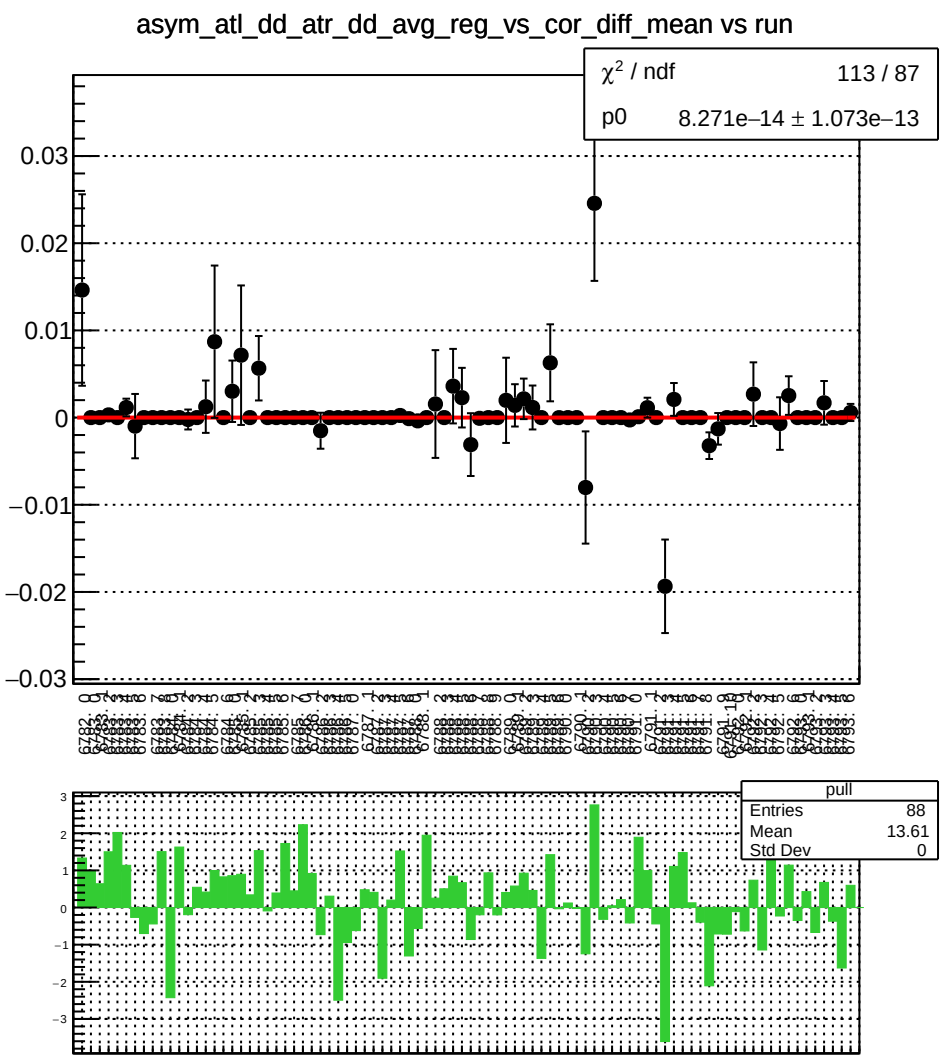

pull1D
Entries 88
Mean 0.008235
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

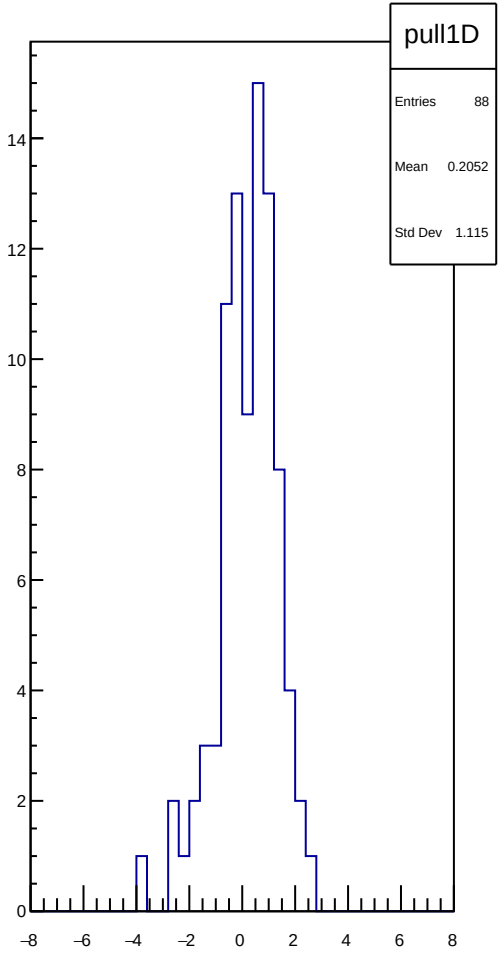

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2817 / 87
p0 3478 ± 2.706
4000
3900
3800
3700
3600
3500
3400
3300
3200

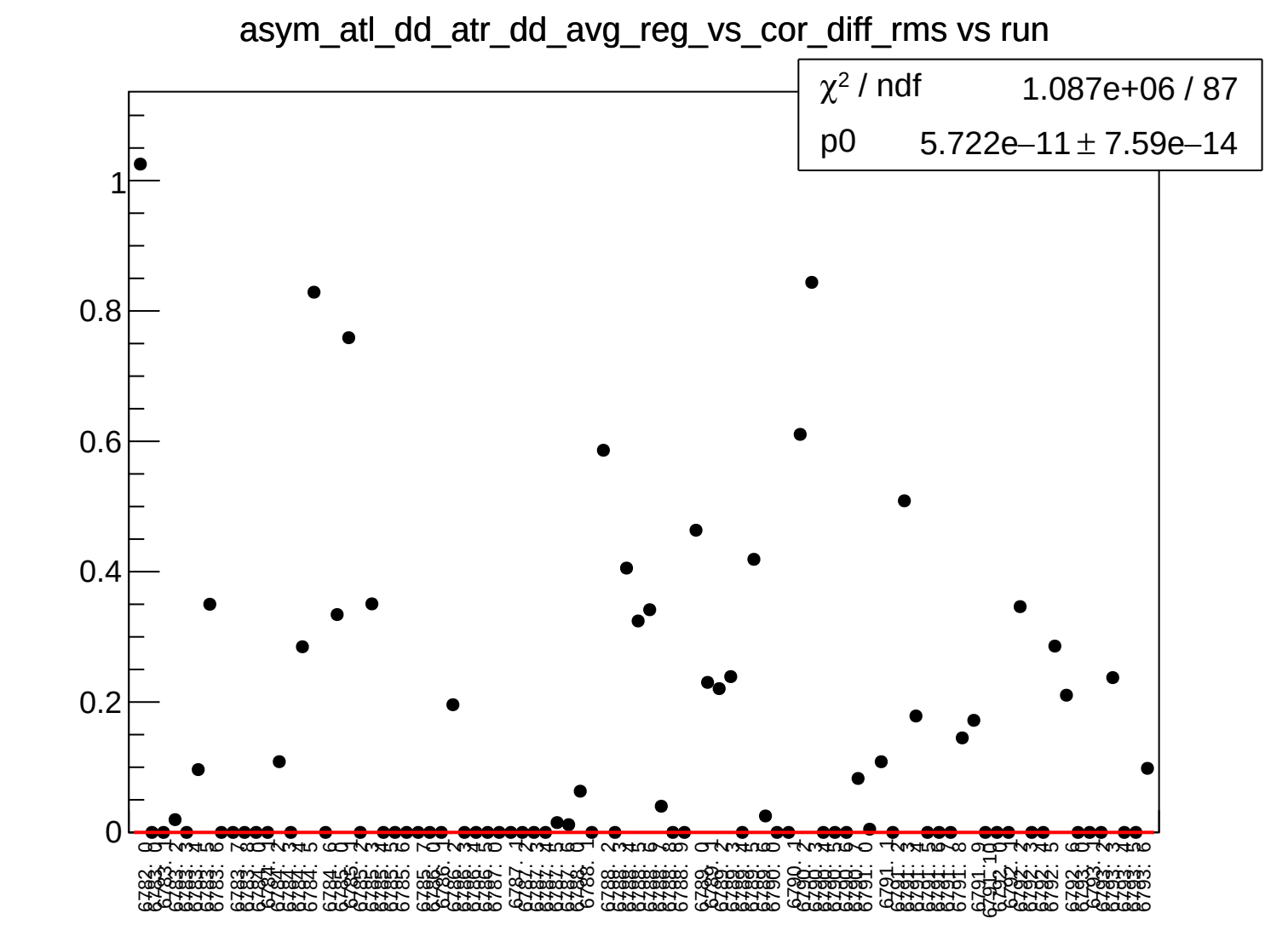

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 97.24 / 87
p0 −923.5 ± 3860
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −69.62
Std Dev 0
3
2
1
0
−1
−2
−3

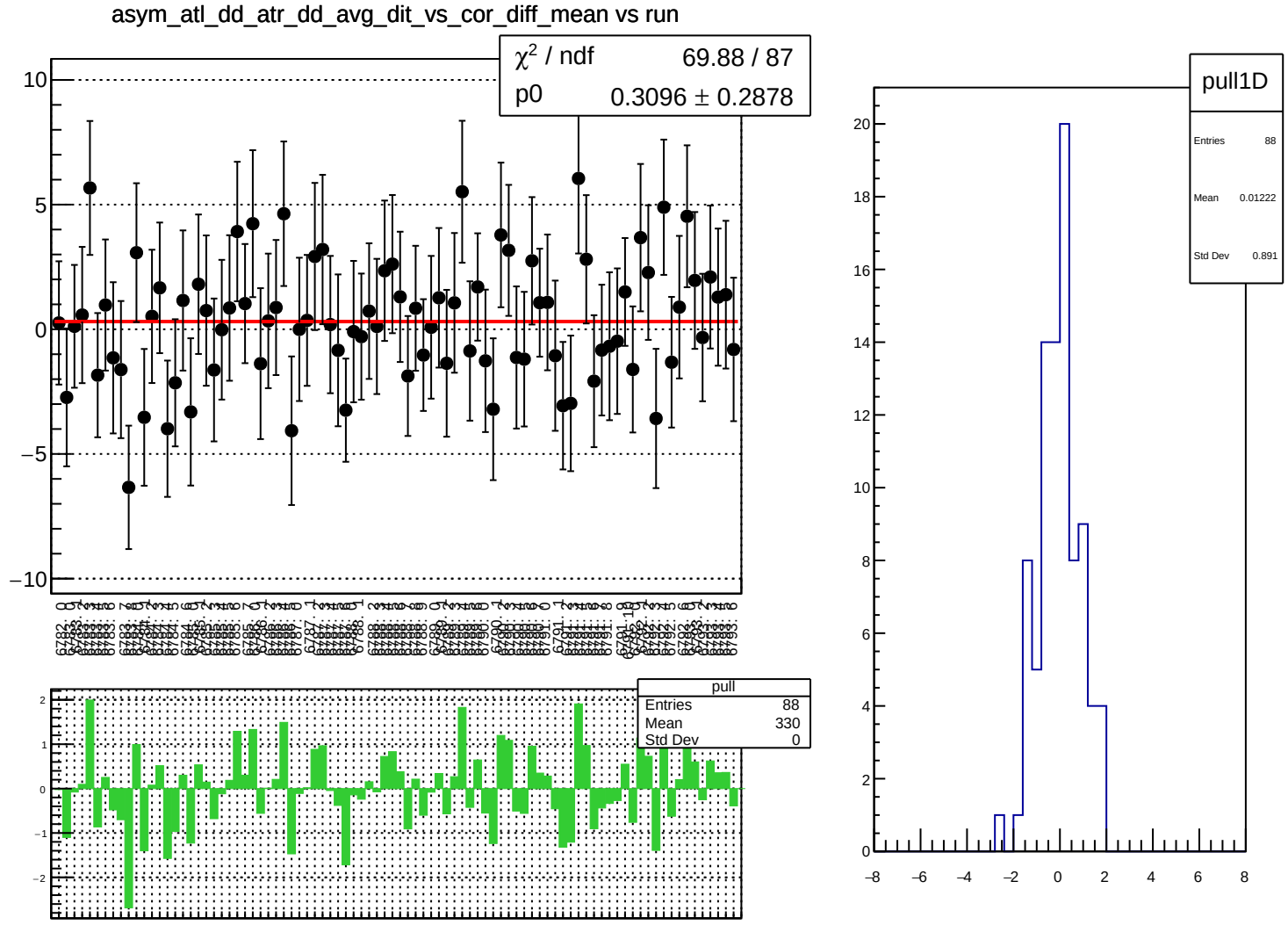

pull1D
Entries 88
Mean −0.00966
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

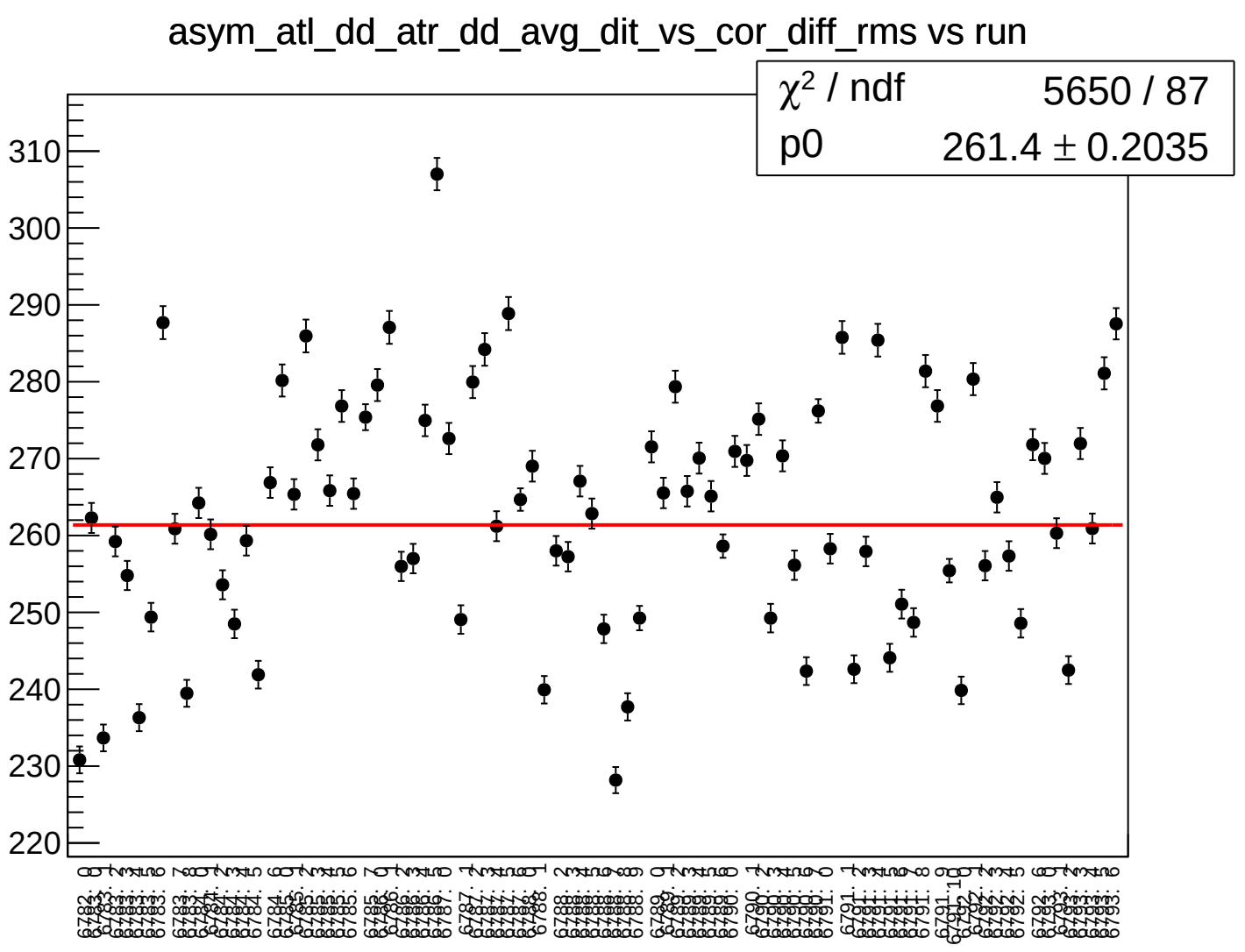

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2292 / 87
p0 3509 ± 2.729
4000
3900
3800
3700
3600
3500
3400
3300

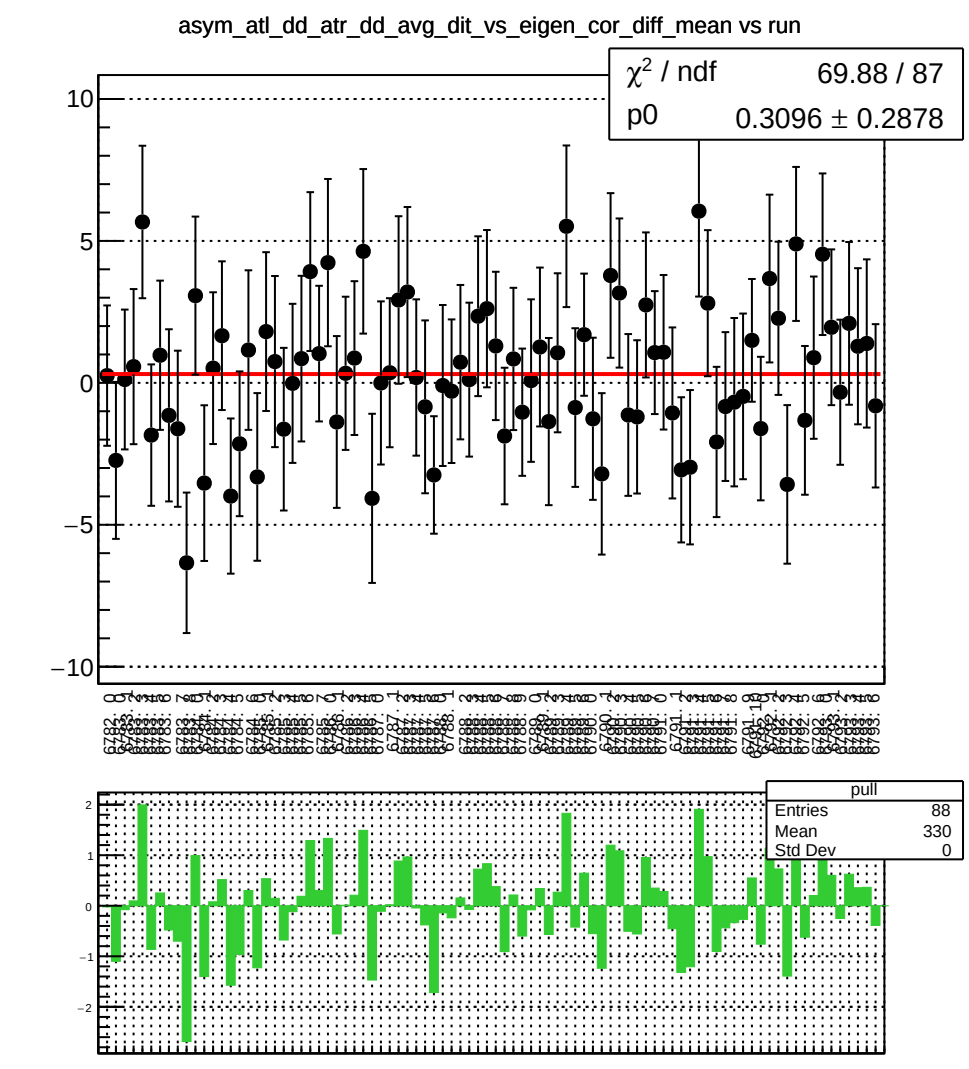

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113 / 87
p0 8.271e−14 ± 1.073e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 13.61
Std Dev 0
3
2
1
0
−1
−2
−3

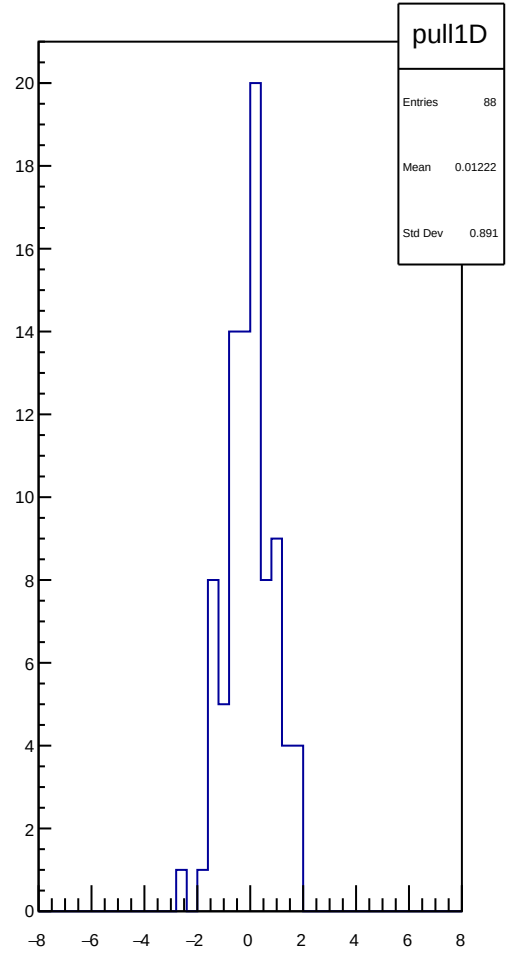

pull1D
Entries 88
Mean 0.2052
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

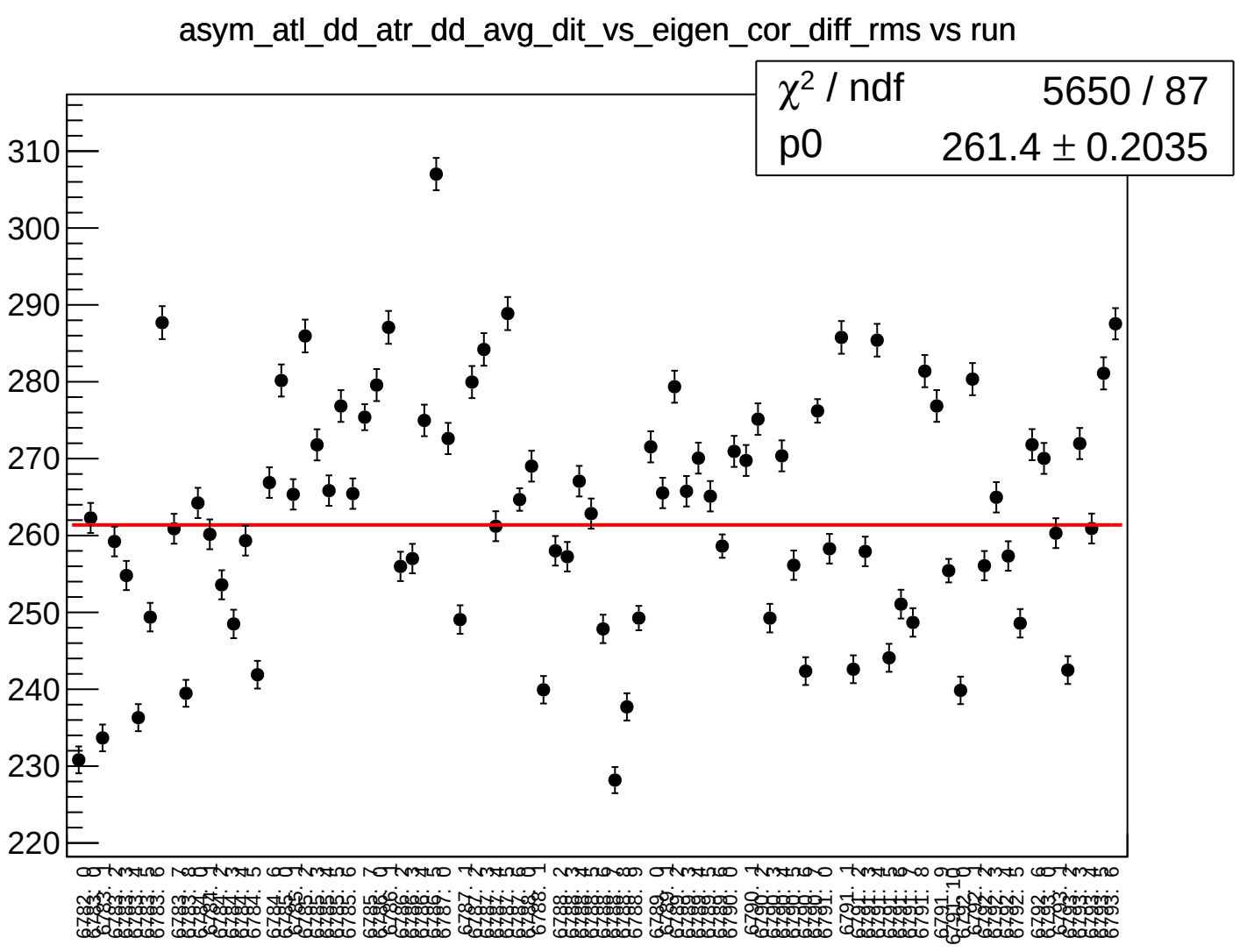

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 87
p0 5.722e−11 ± 7.59e−14
1
0.8
0.6
0.4
0.2
0

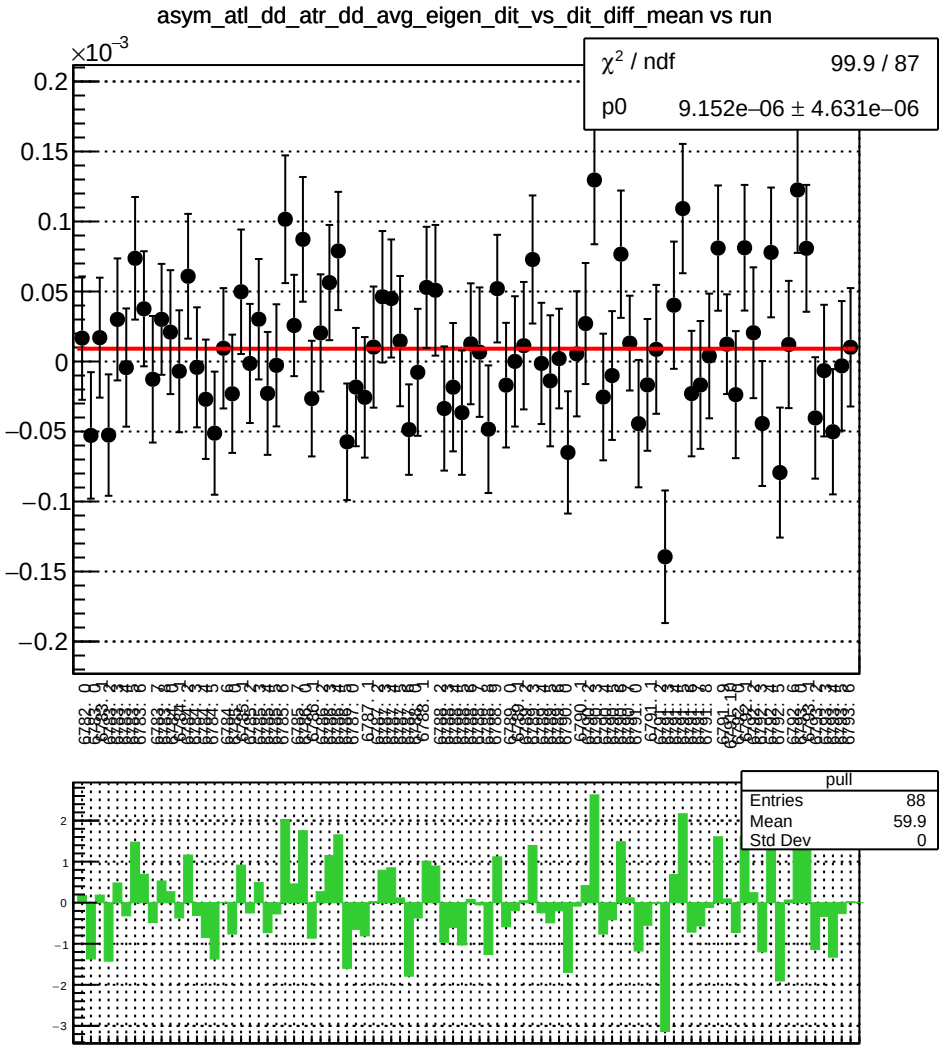

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0
pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

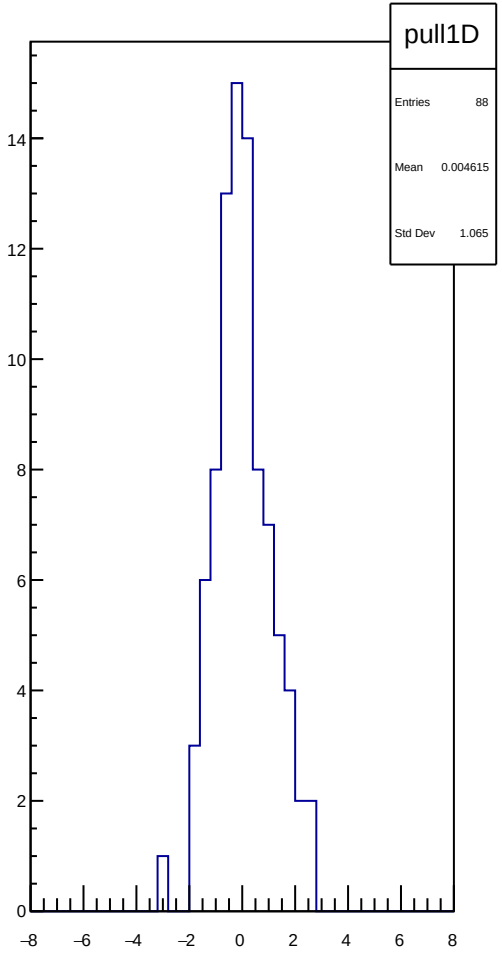

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

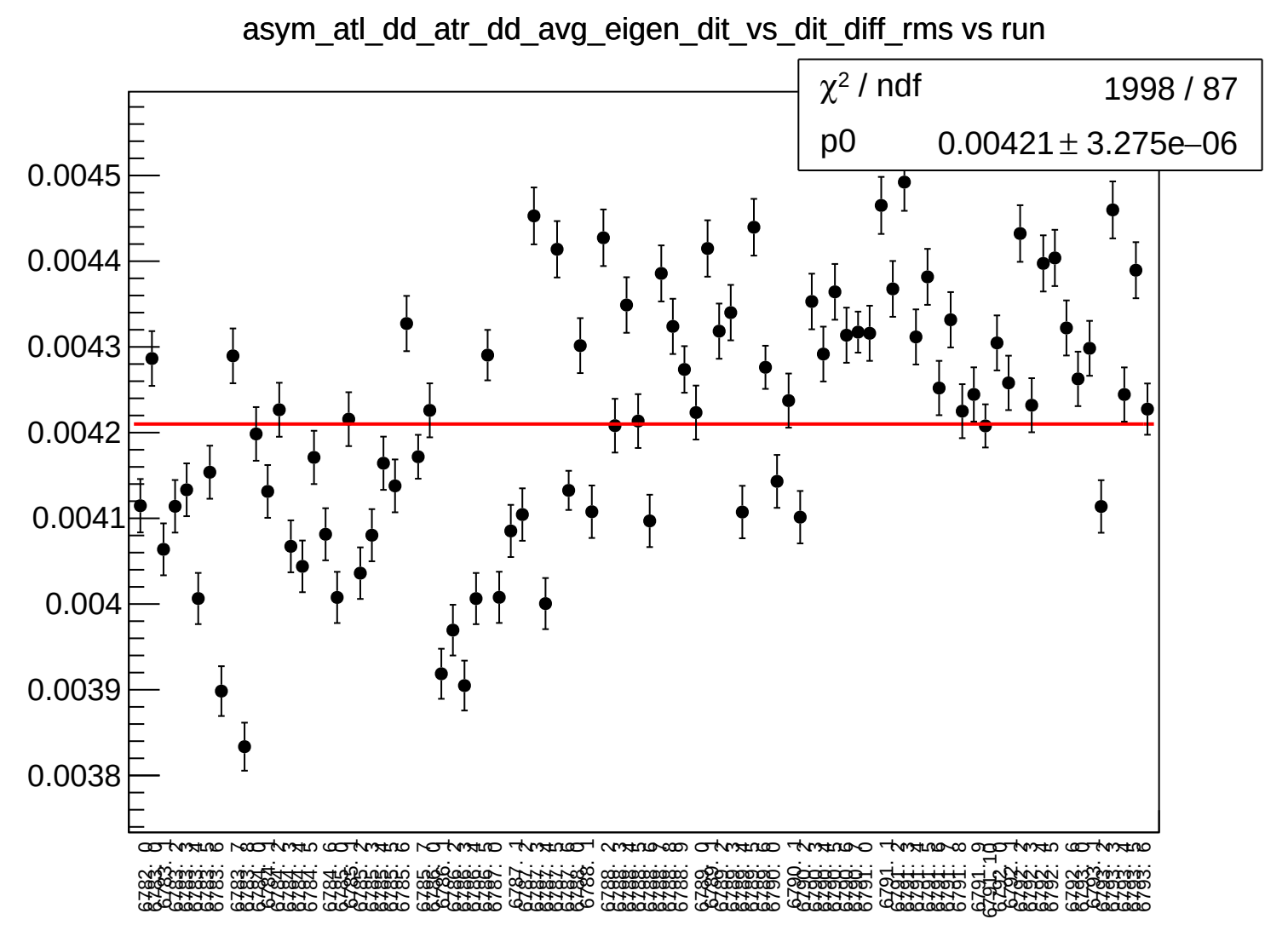

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0

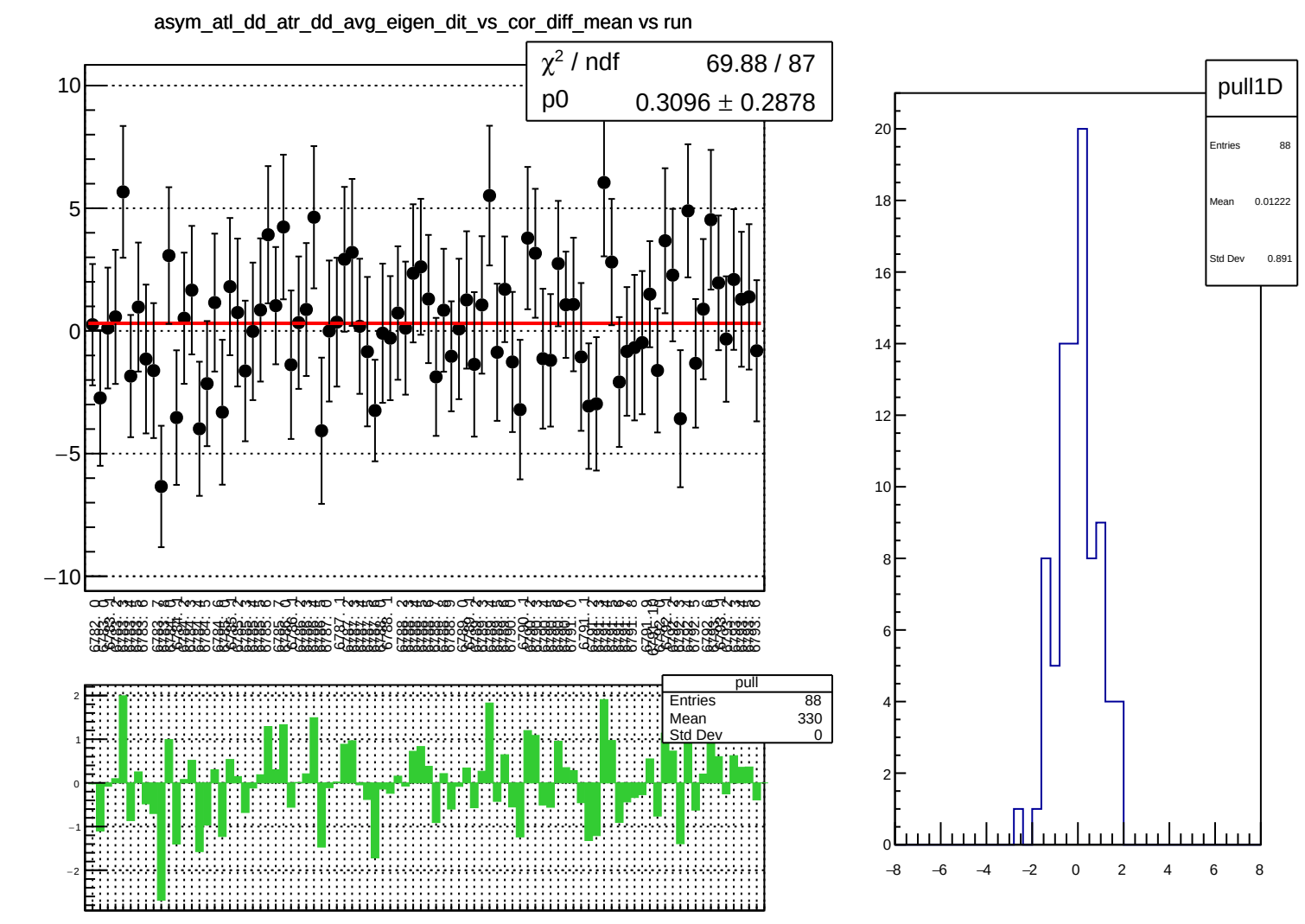

pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

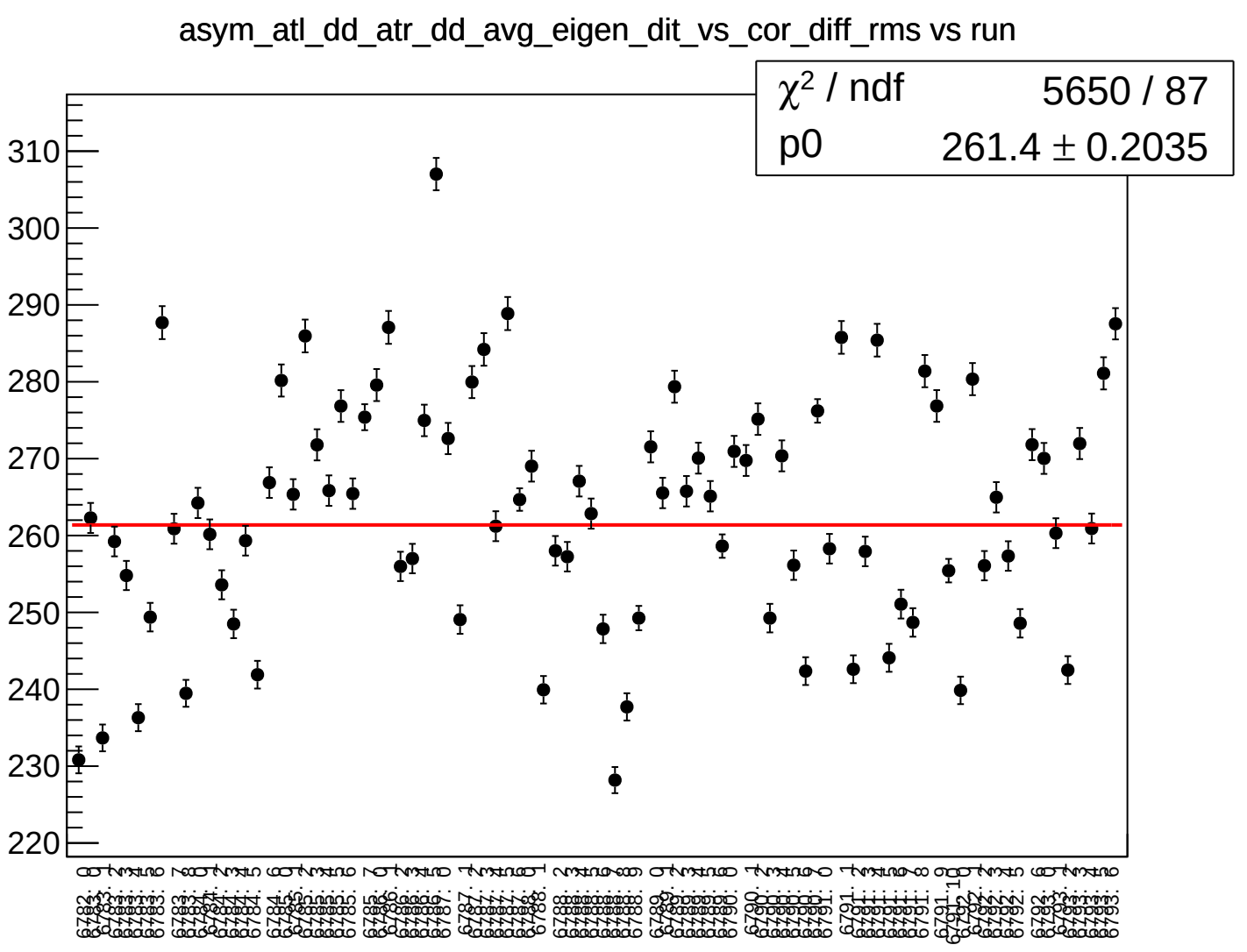

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

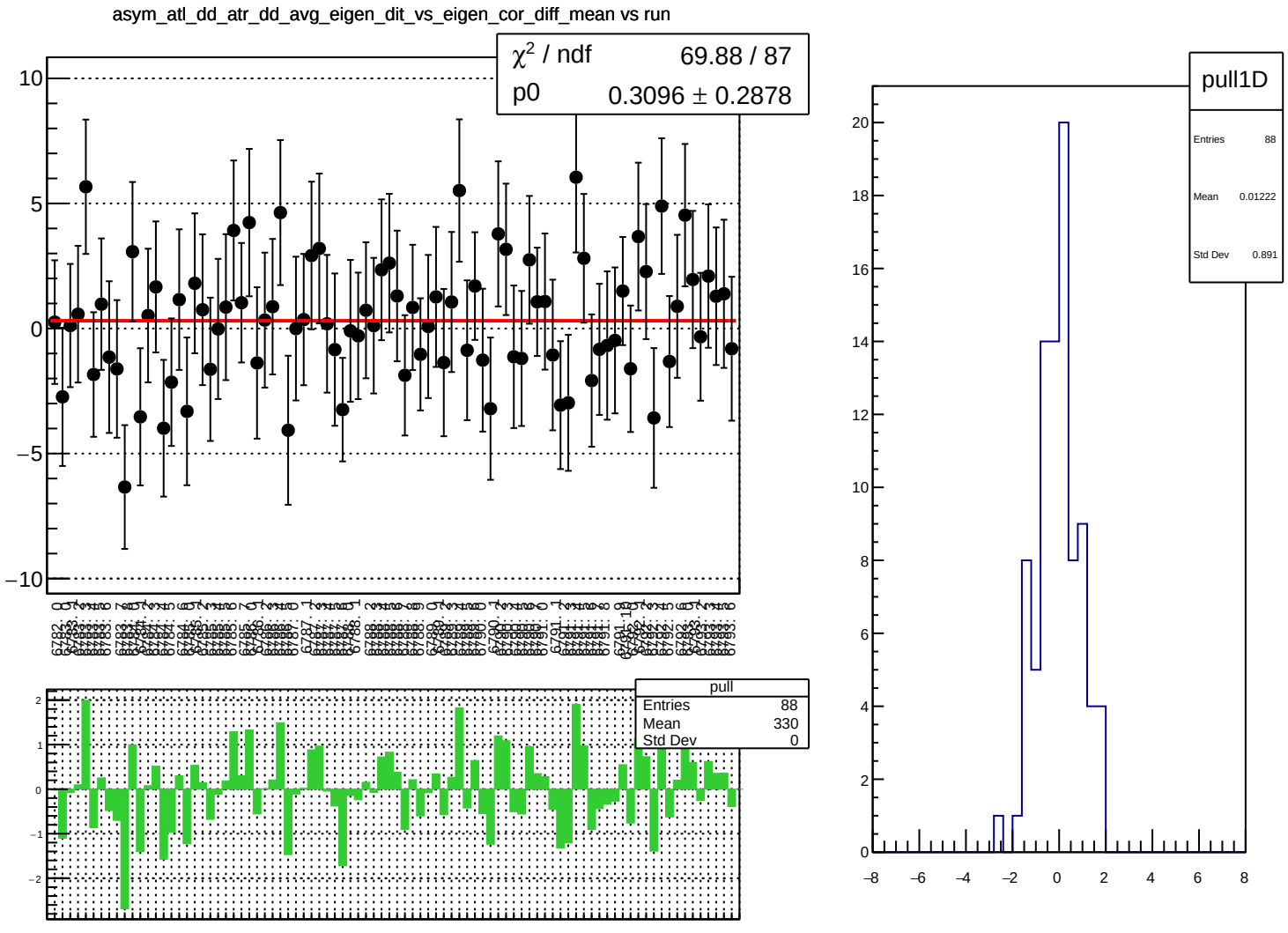

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.9 / 87
p0 9.152e−06 ± 4.631e−06
pull
Entries 88
Mean 59.9
Std Dev 0

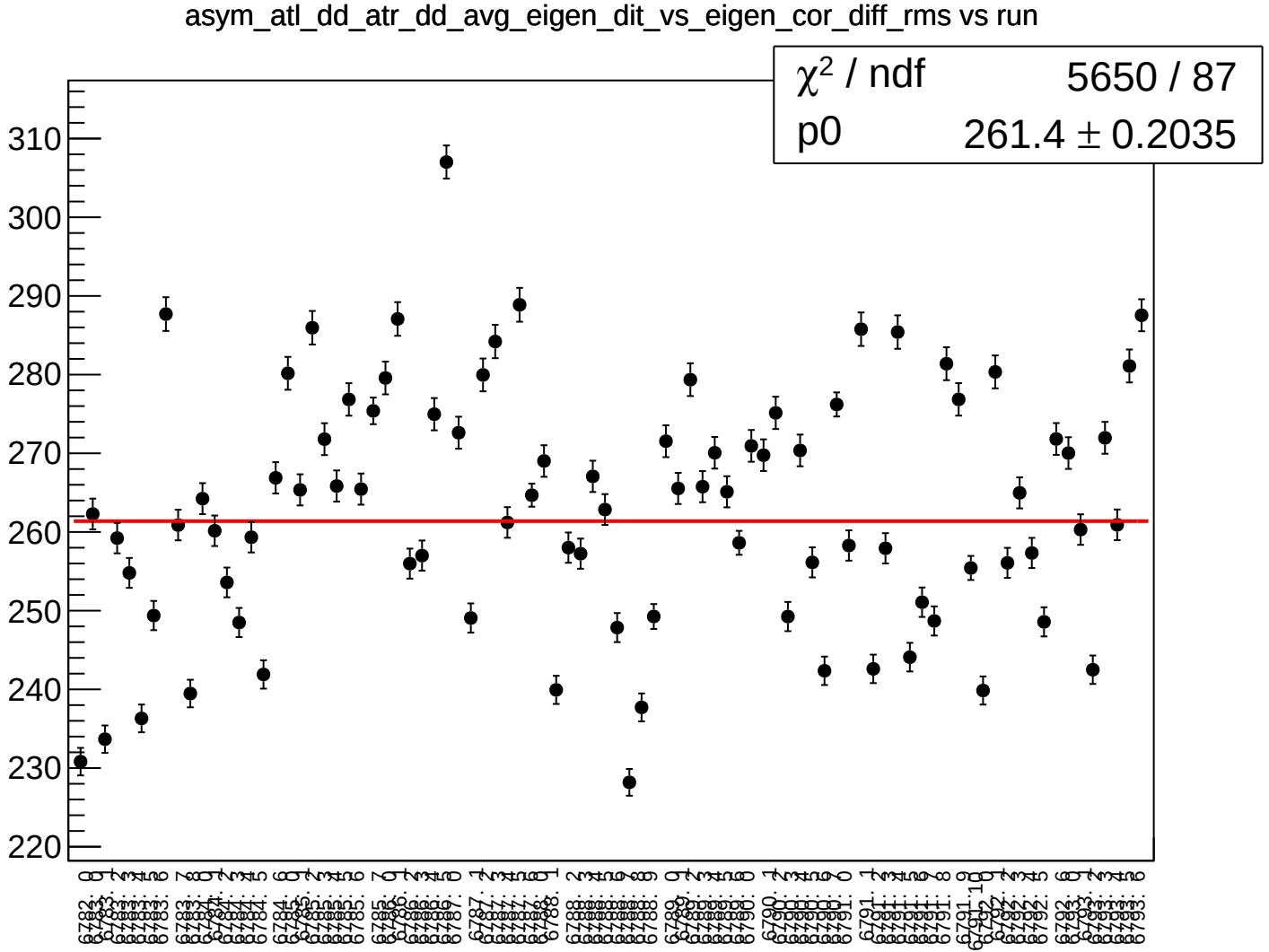

pull1D
Entries 88
Mean 0.004615
Std Dev 1.065

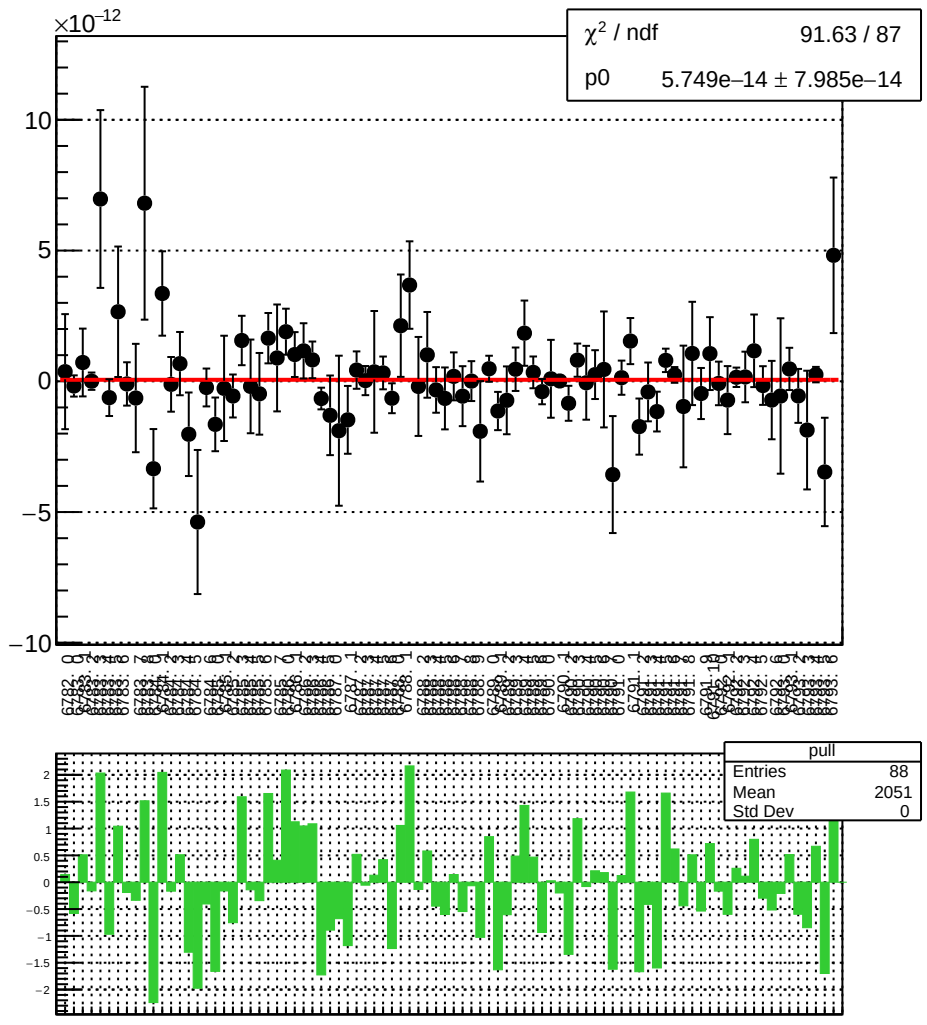

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1998 / 87
p0 0.00421 ± 3.275e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038

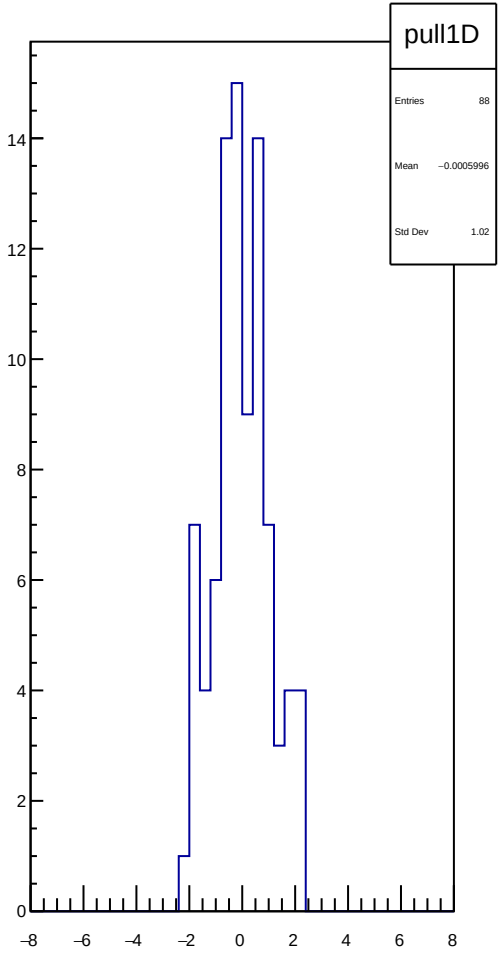

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0
pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

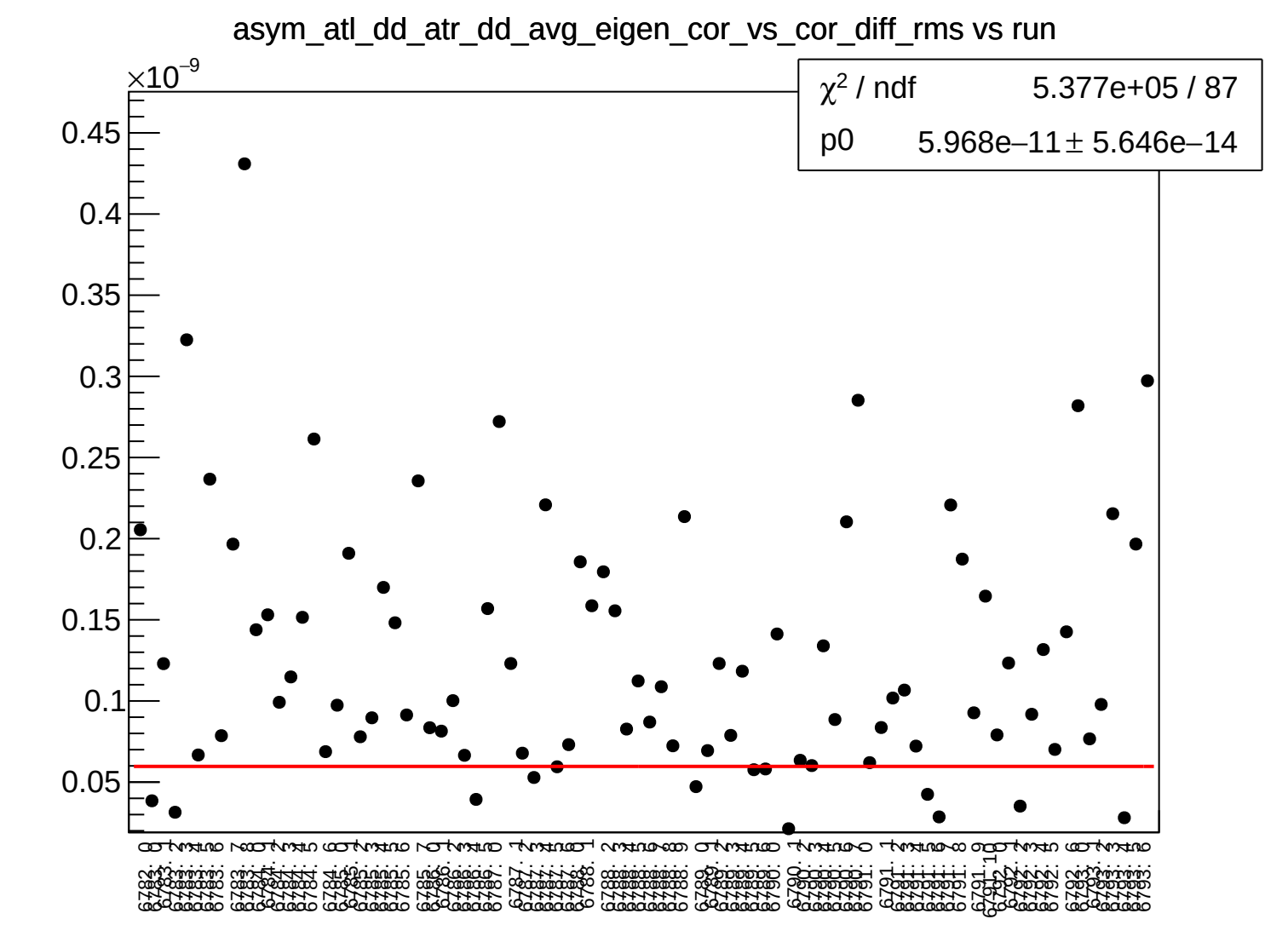

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

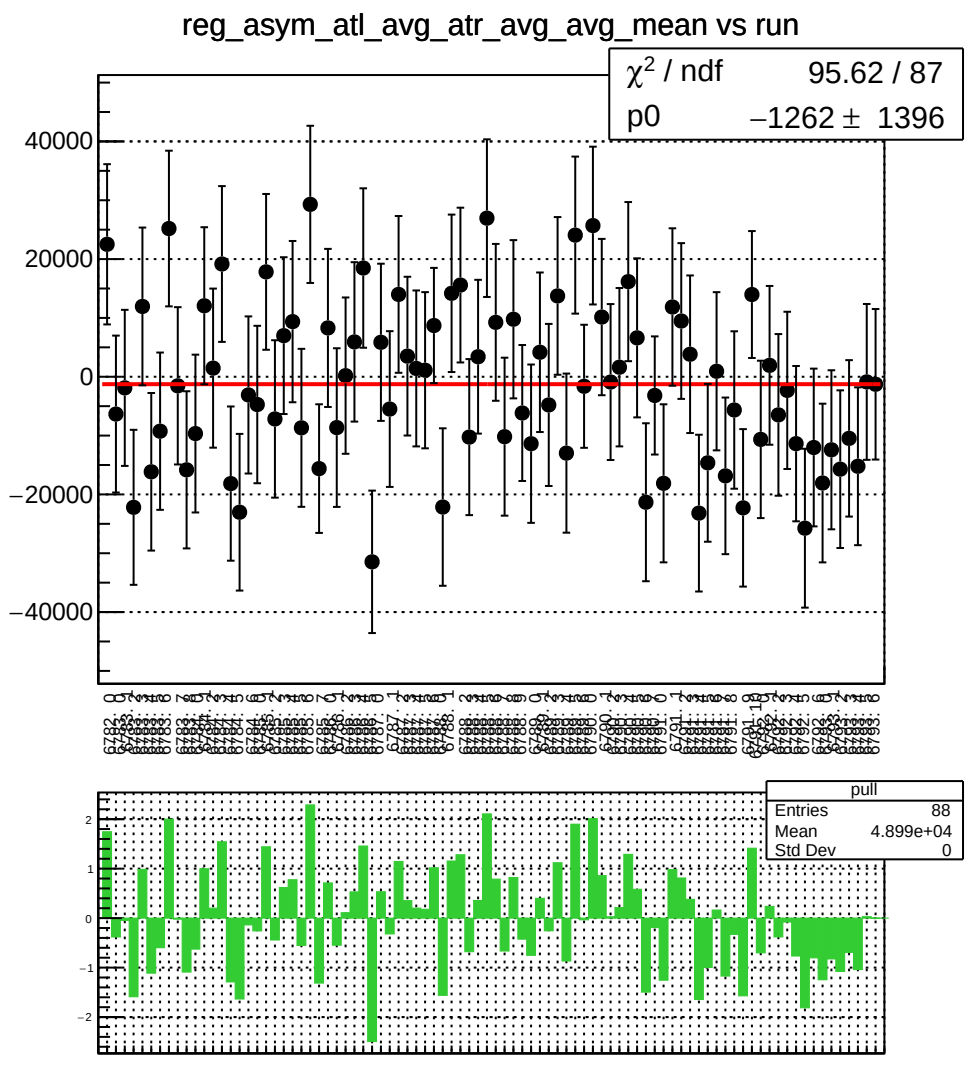

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0
pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

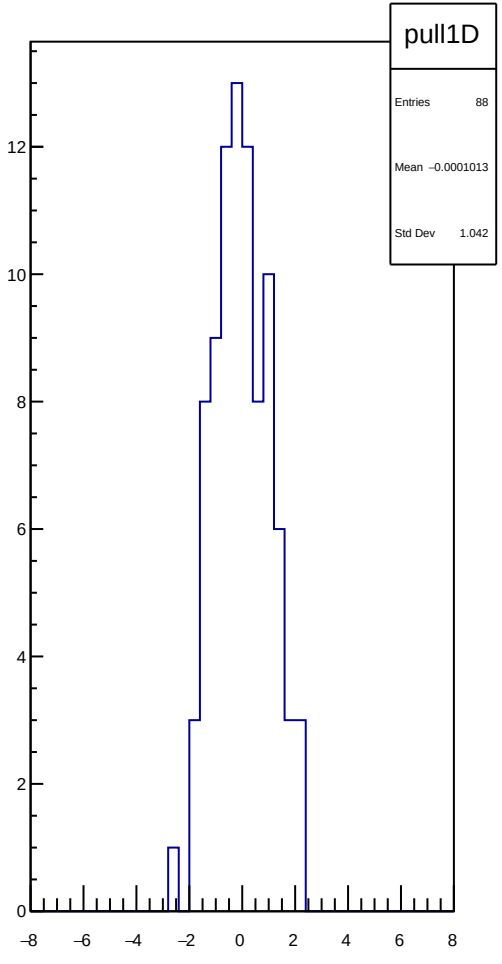

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

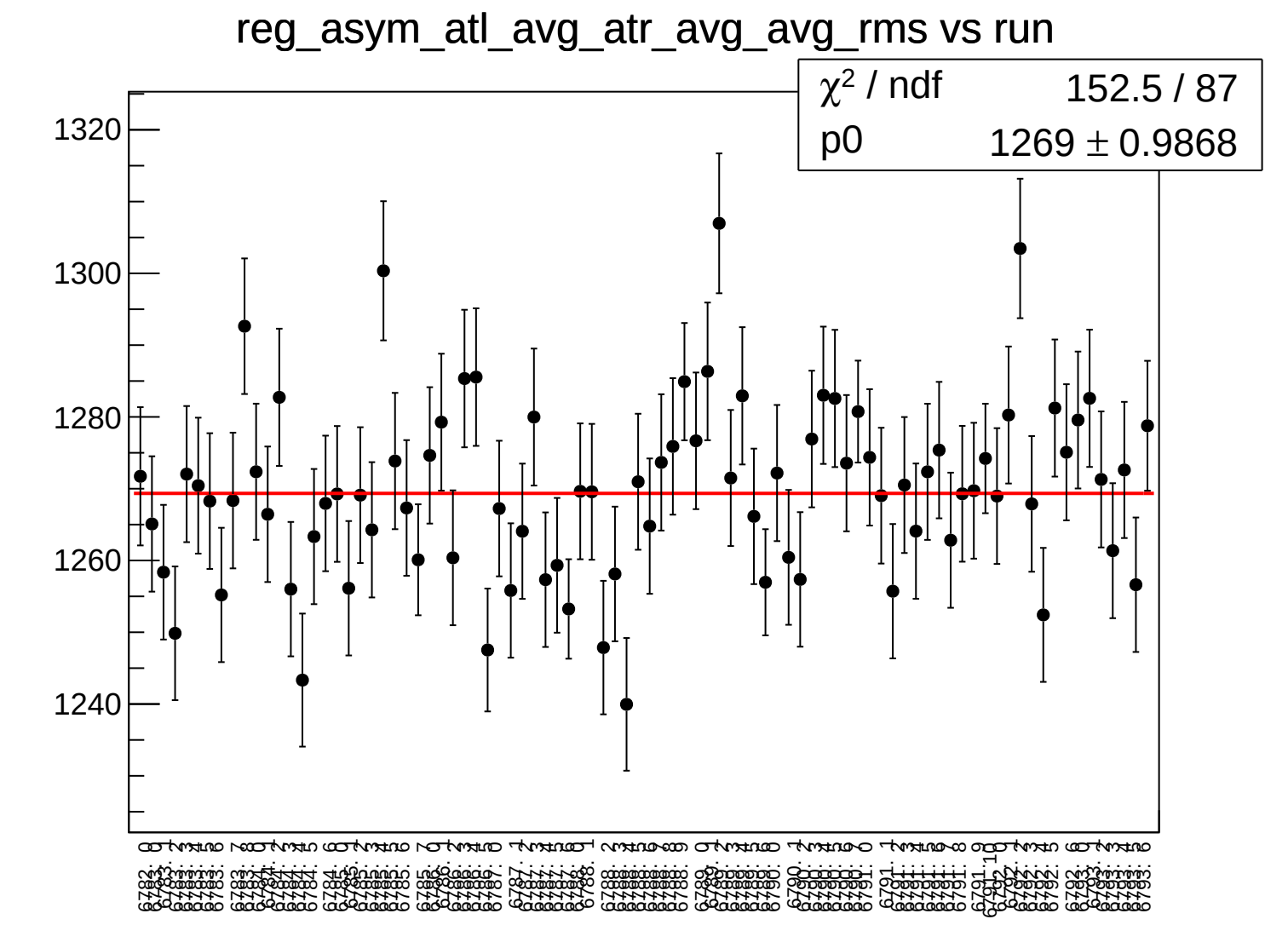

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 91.63 / 87
p0 5.749e−14 ± 7.985e−14
pull
Entries 88
Mean 2051
Std Dev 0

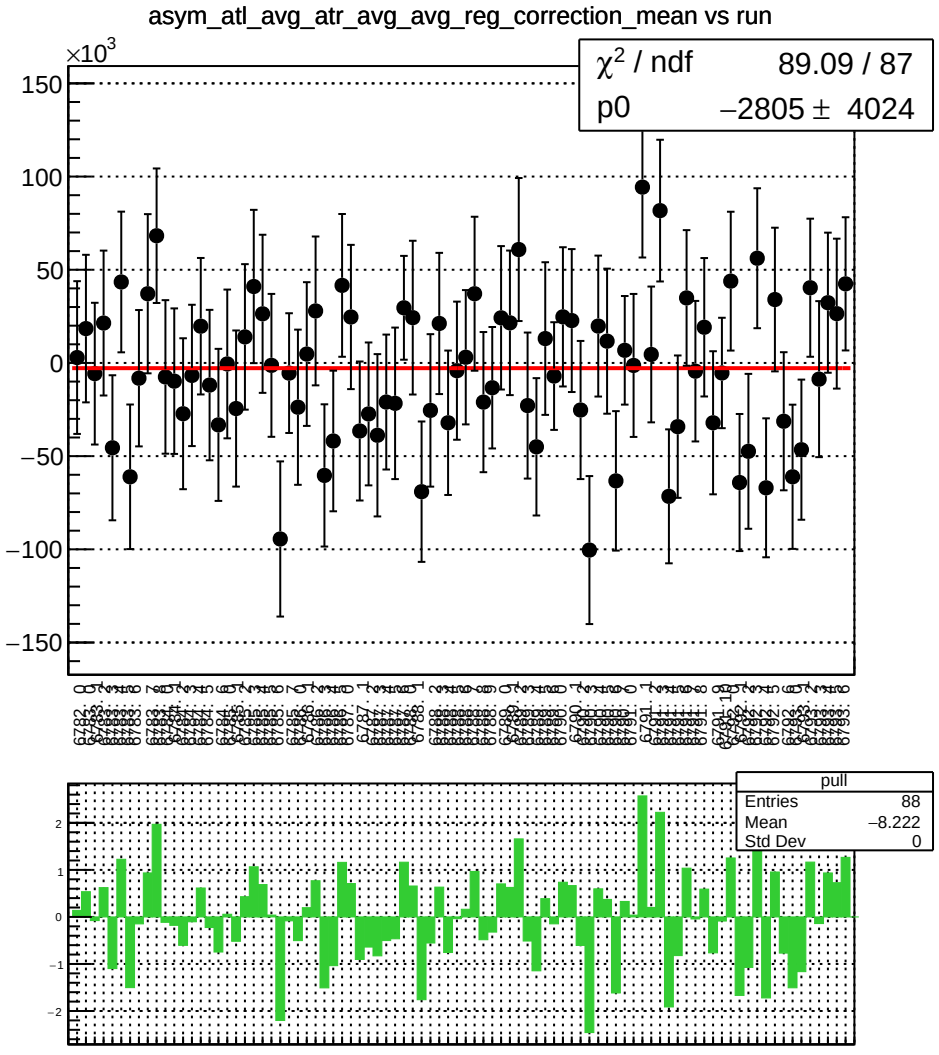

pull1D
Entries 88
Mean −0.0005996
Std Dev 1.02

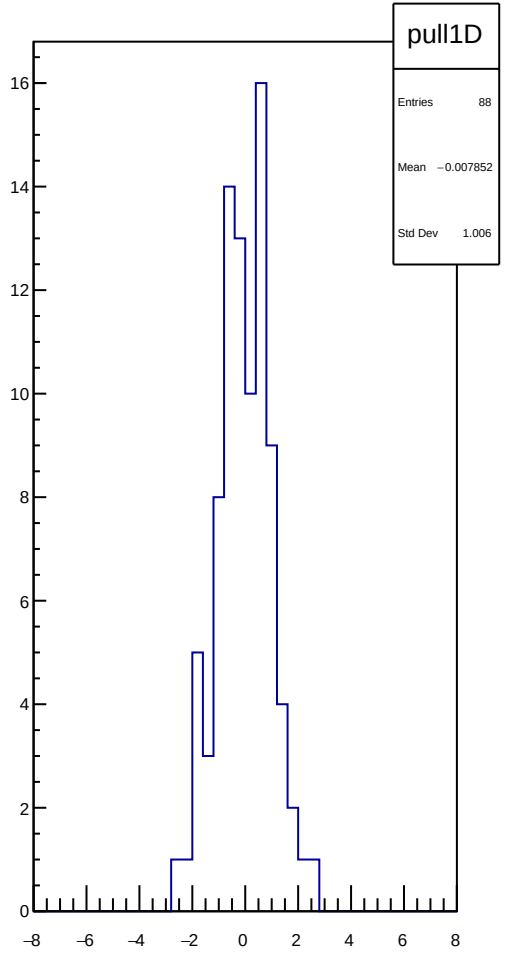

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.377e+05 / 87
p0 5.968e−11 ± 5.646e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

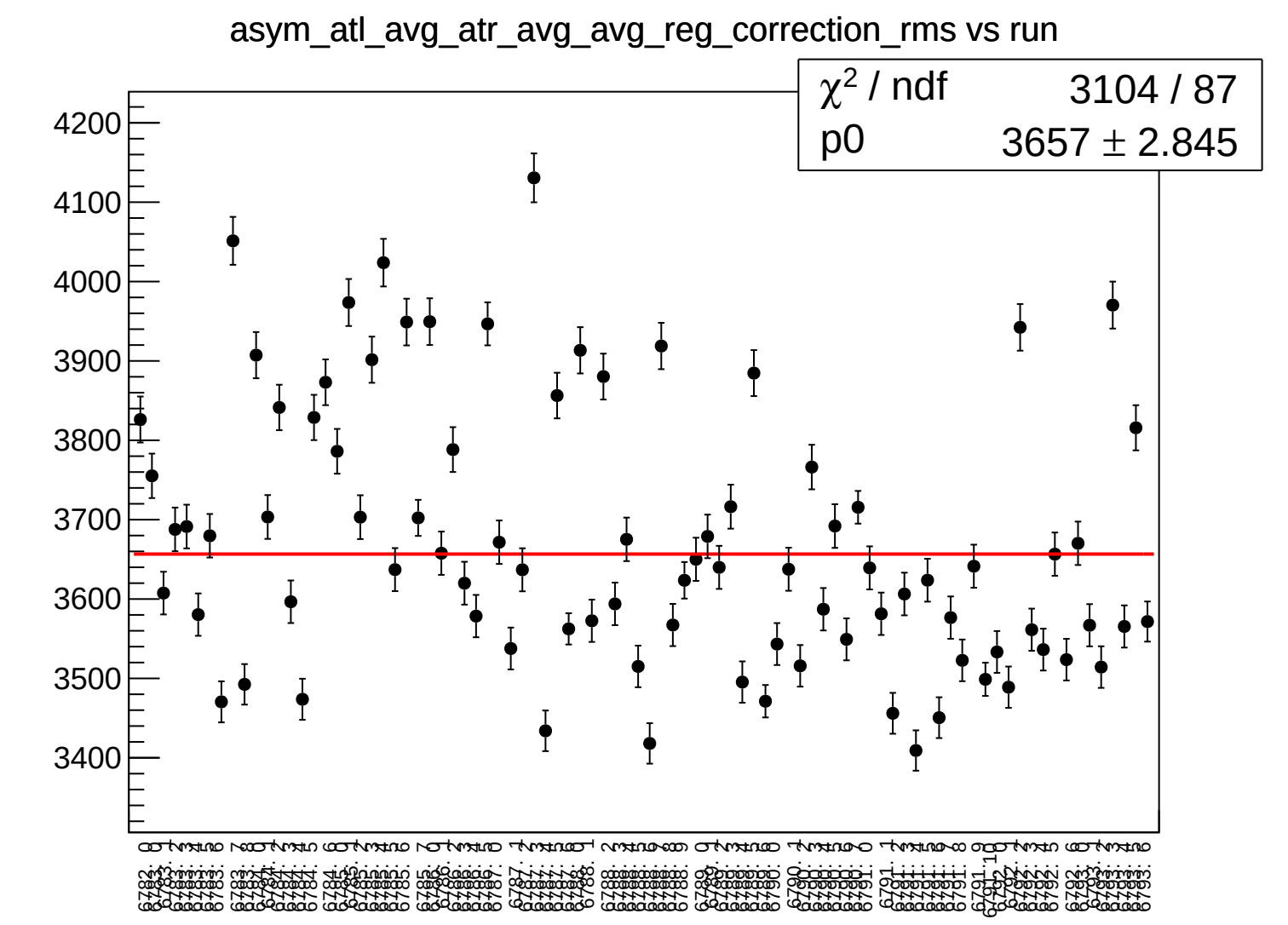

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.62 / 87
p0 −1262 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4.899e+04
Std Dev 0
2
1
0
−1
−2

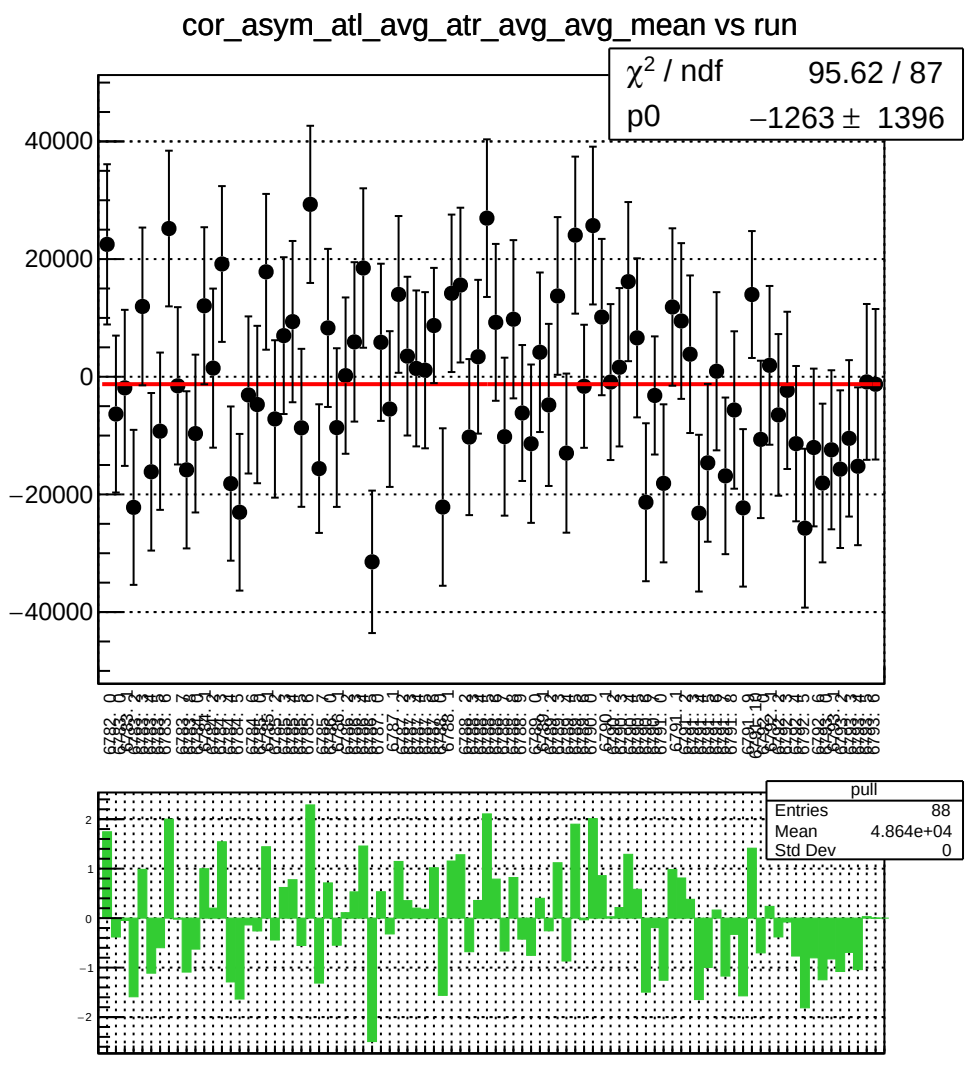

pull1D
Entries 88
Mean −0.0001013
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

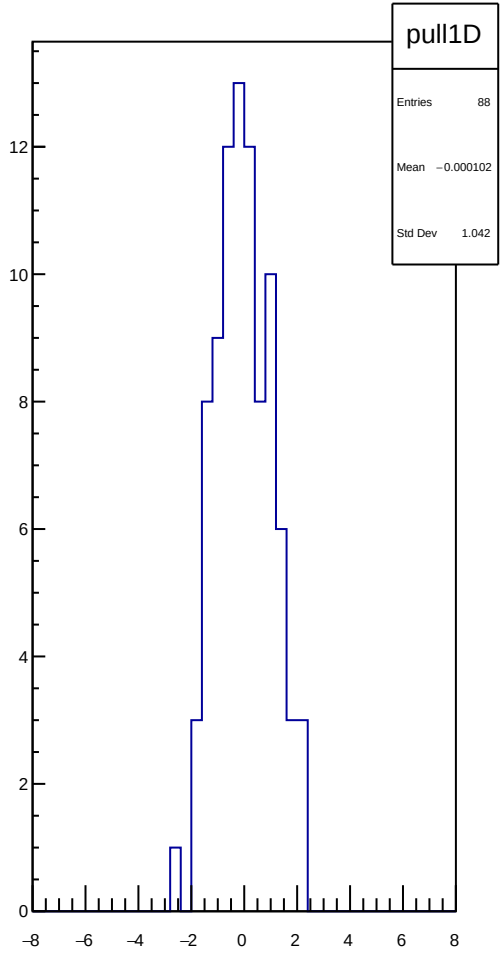

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 152.5 / 87
p0 1269 ± 0.9868
1320
1300
1280
1260
1240

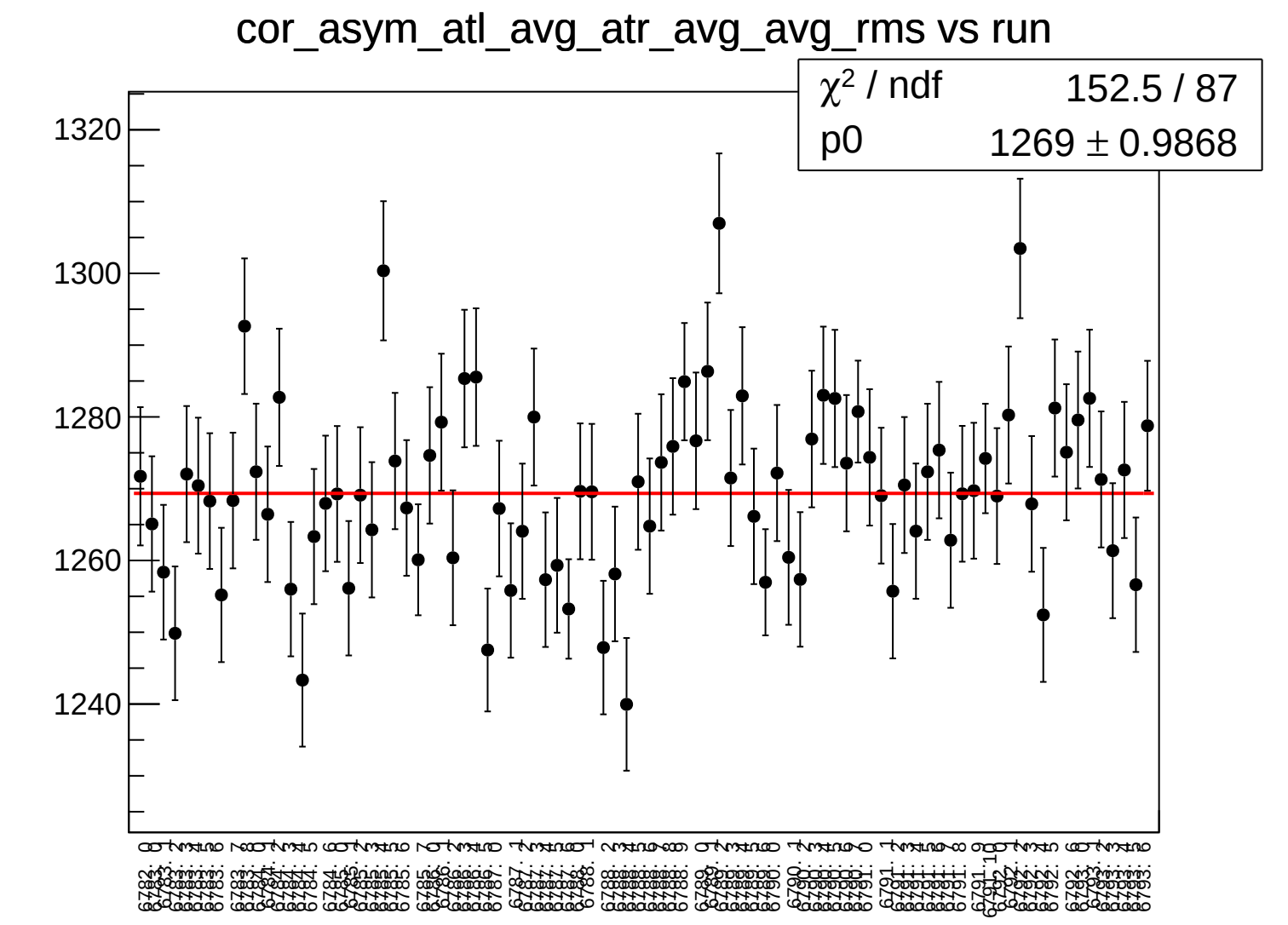

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.09 / 87
p0 −2805 ± 4024
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8.222
Std Dev 0
2
1
0
−1
−2

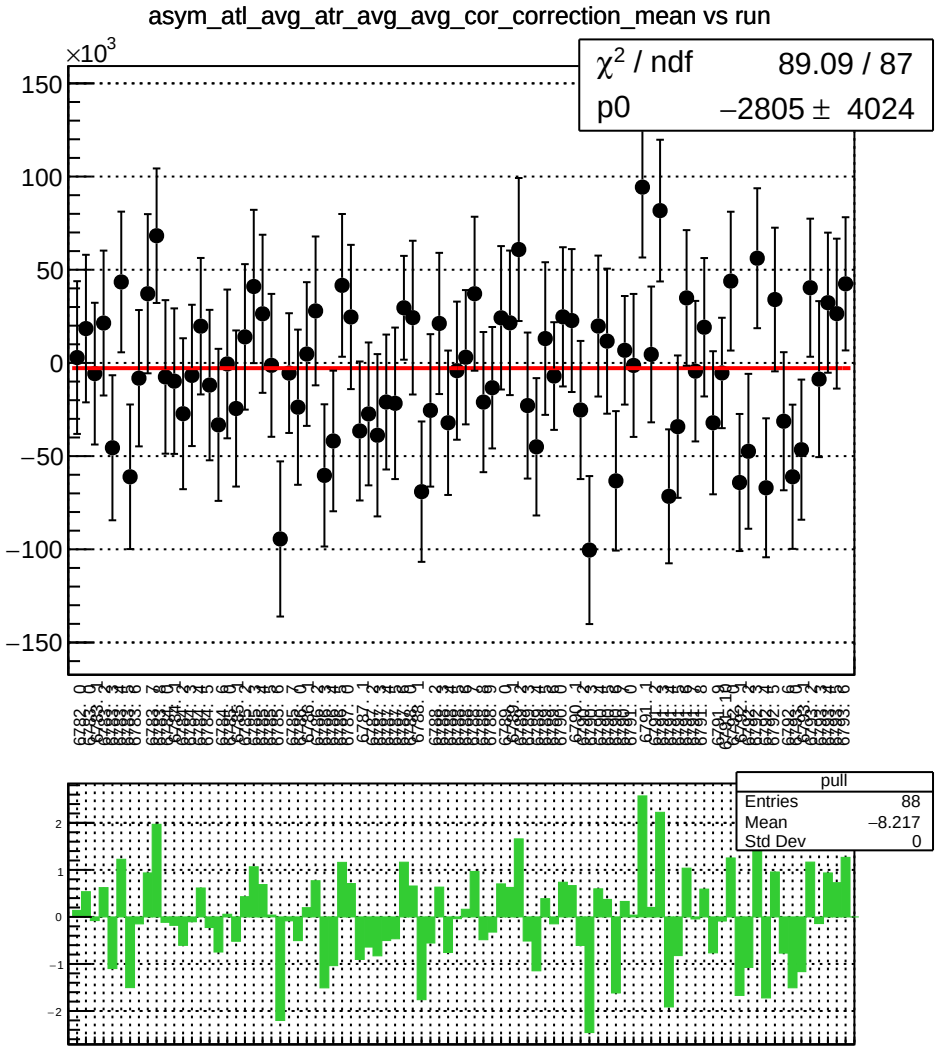

pull1D
Entries 88
Mean −0.007852
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

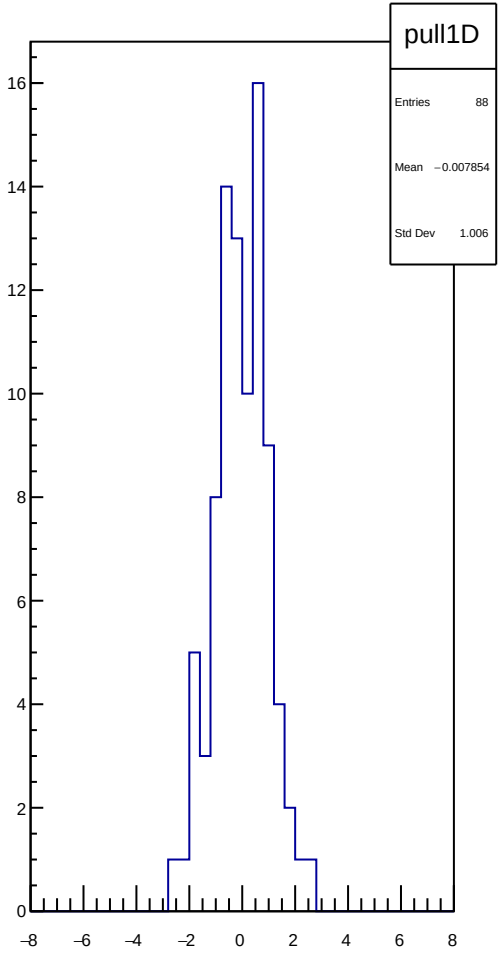

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3104 / 87
p0 3657 ± 2.845
4200
4100
4000
3900
3800
3700
3600
3500
3400

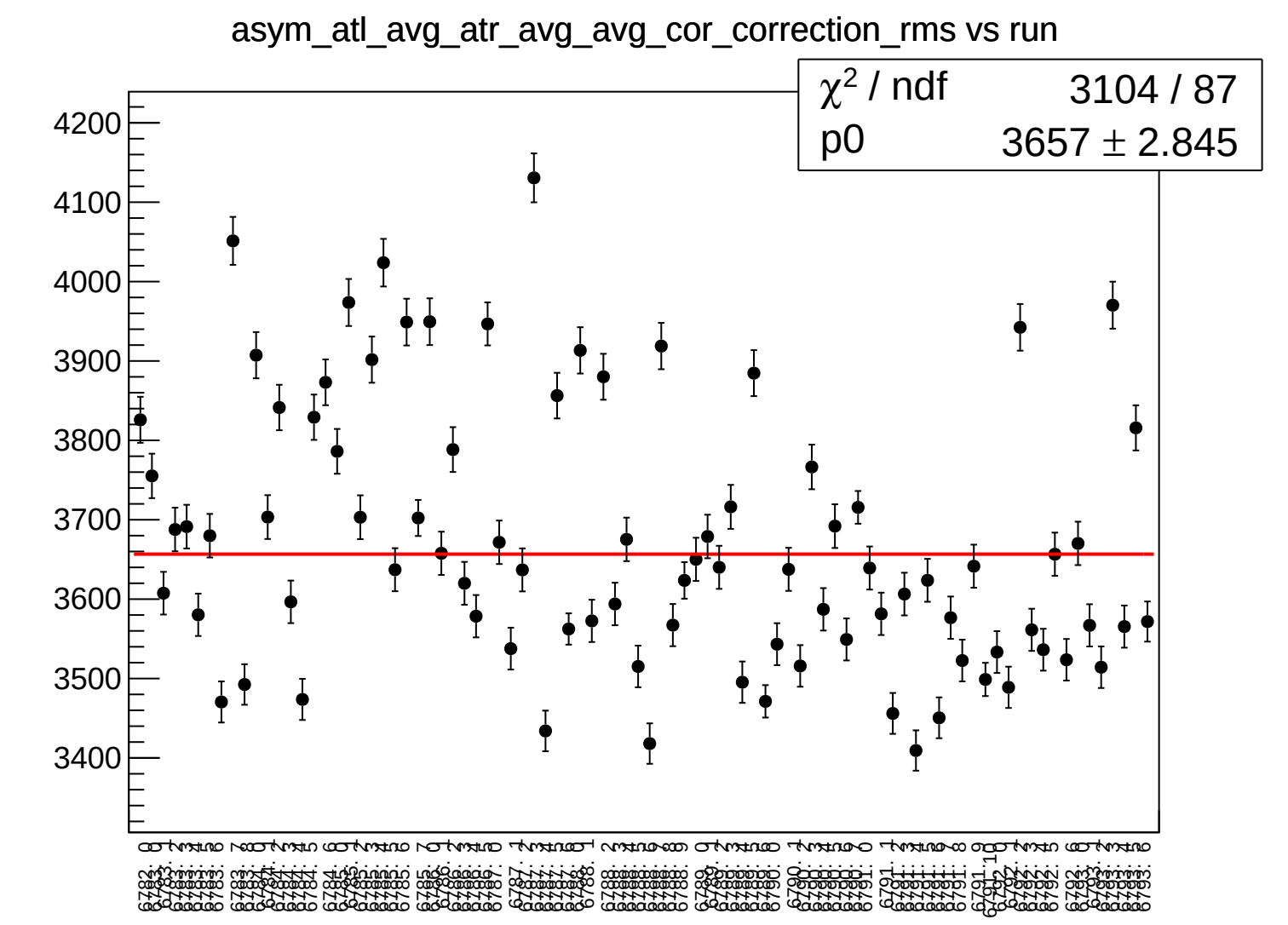

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.62 / 87
p0 −1263 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4.864e+04
Std Dev 0
2
1
0
−1
−2

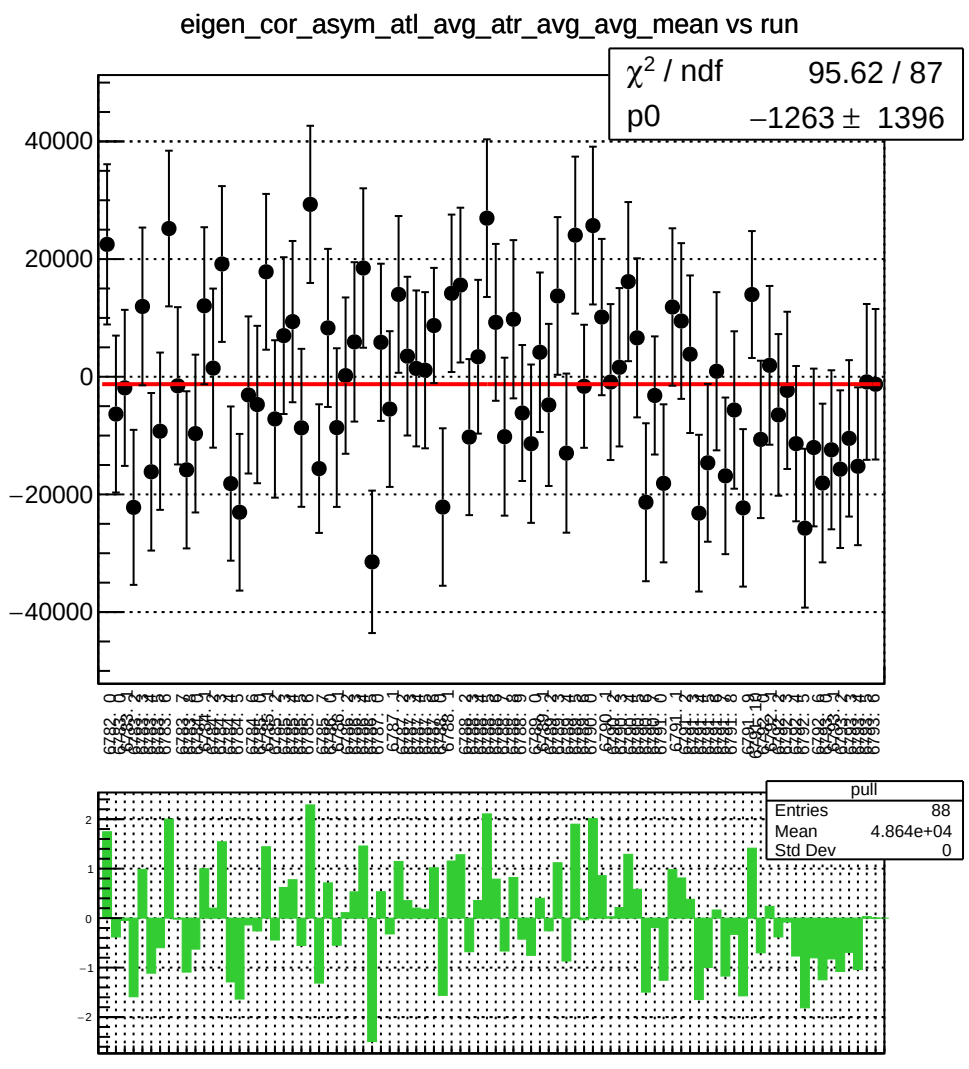

pull1D
Entries 88
Mean −0.000102
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

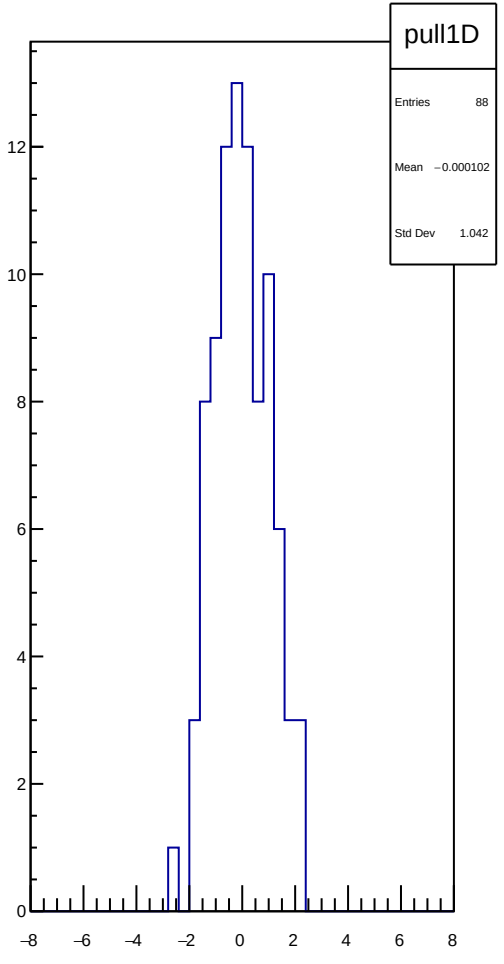

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 152.5 / 87
p0 1269 ± 0.9868
1320
1300
1280
1260
1240

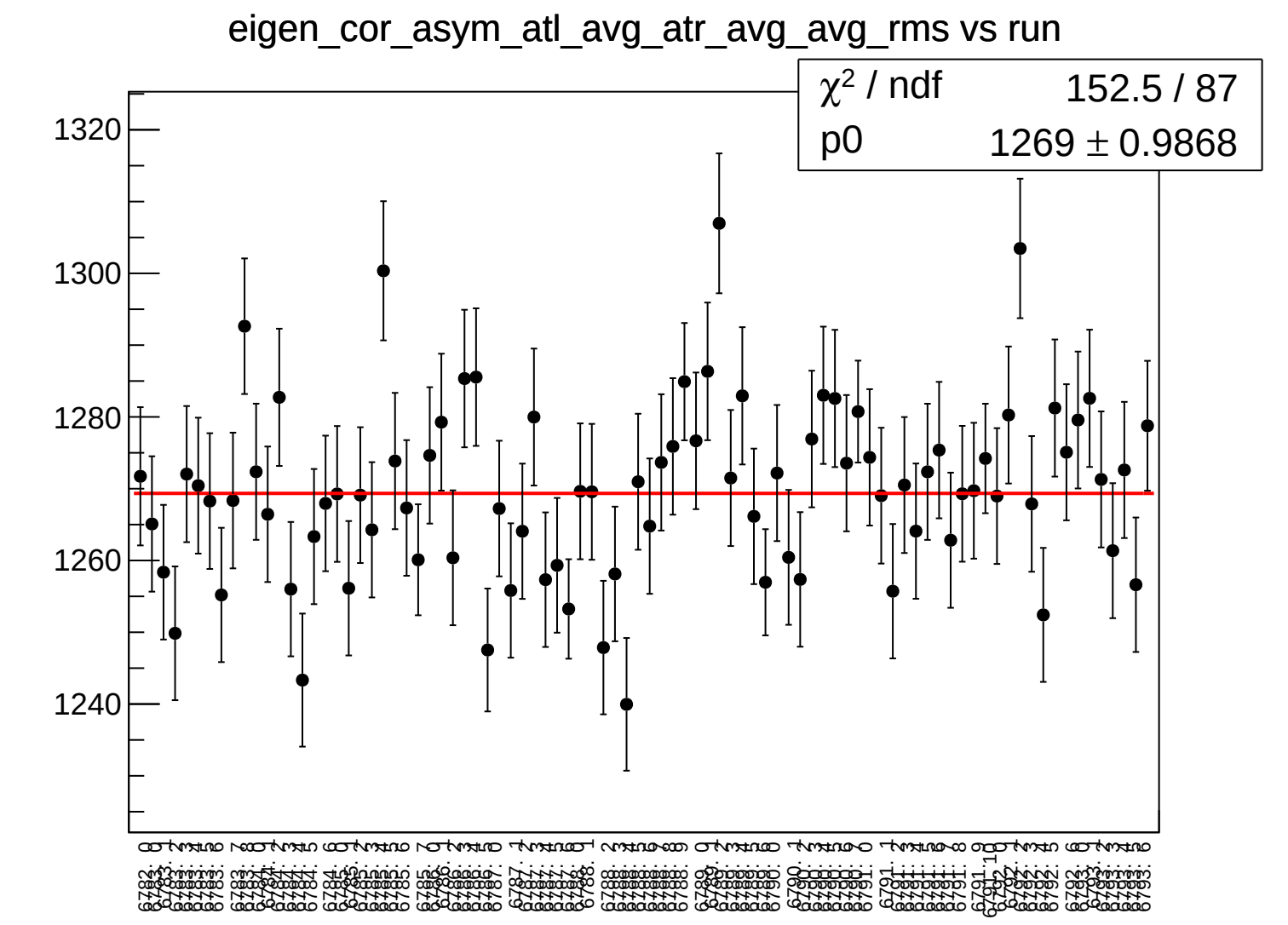

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.09 / 87
p0 −2805 ± 4024
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8.217
Std Dev 0
2
1
0
−1
−2

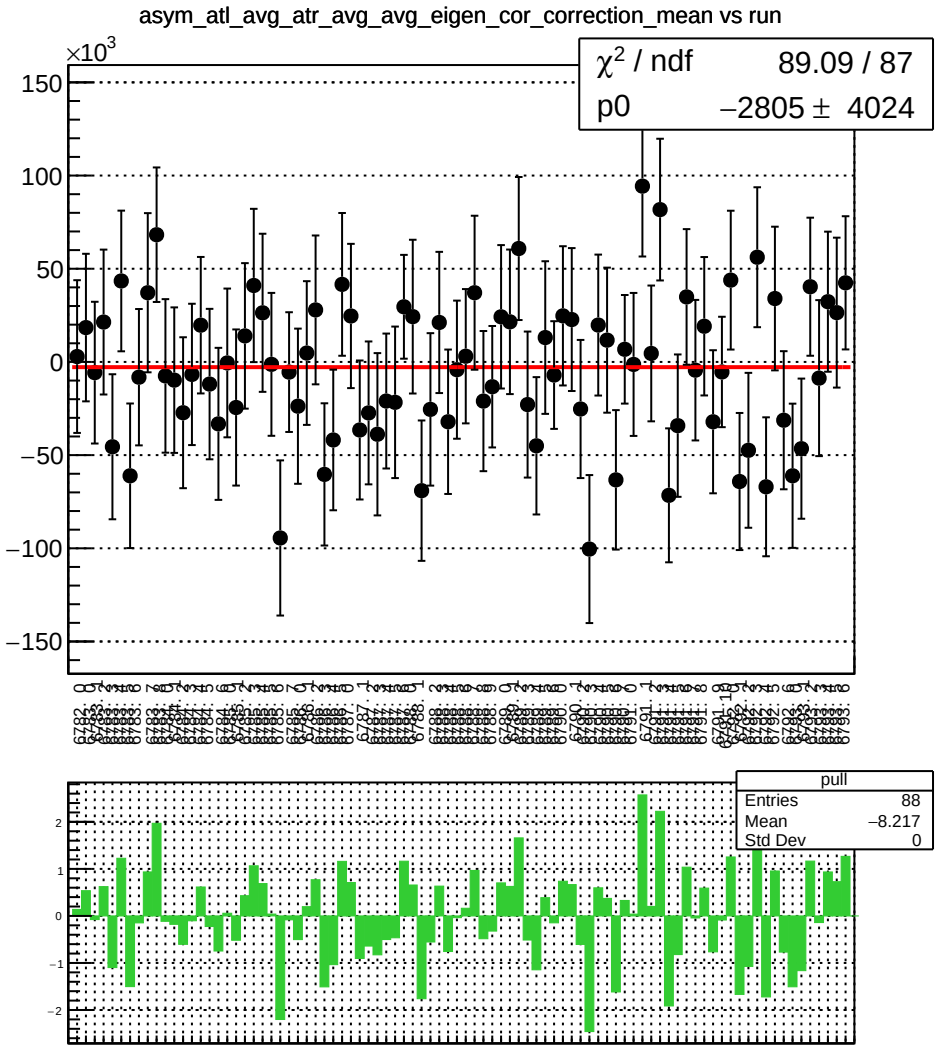

pull1D
Entries 88
Mean −0.007854
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

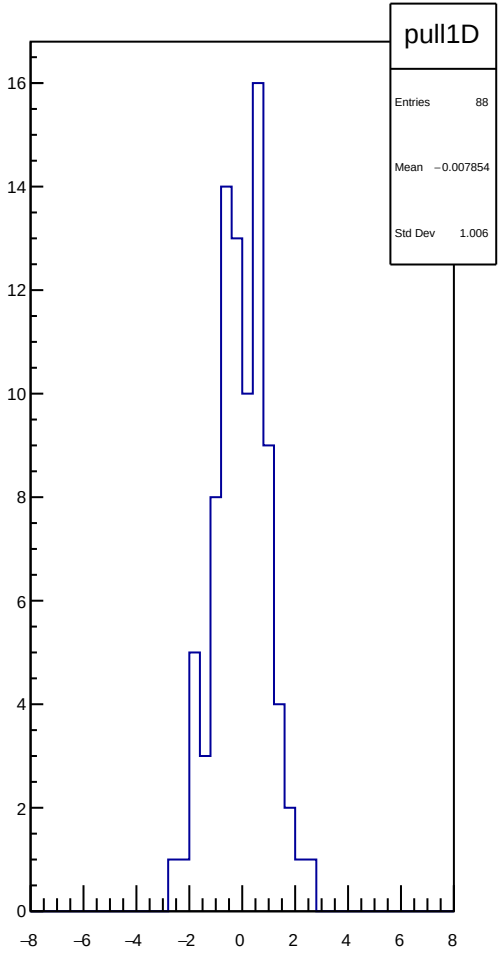

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3104 / 87
p0 3657 ± 2.845
4200
4100
4000
3900
3800
3700
3600
3500
3400

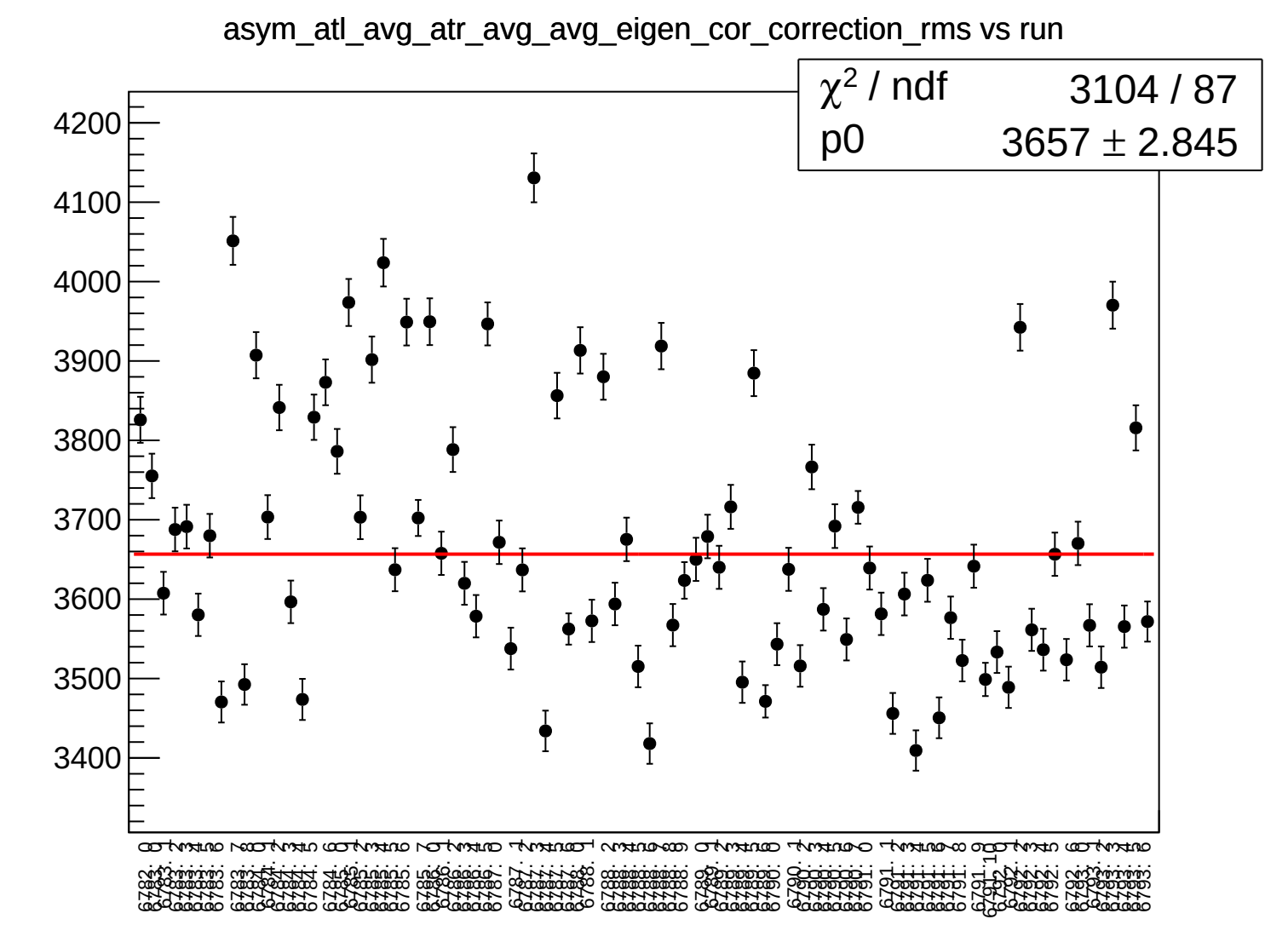

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.62 / 87
p0 −1263 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4.864e+04
Std Dev 0
2
1
0
−1
−2

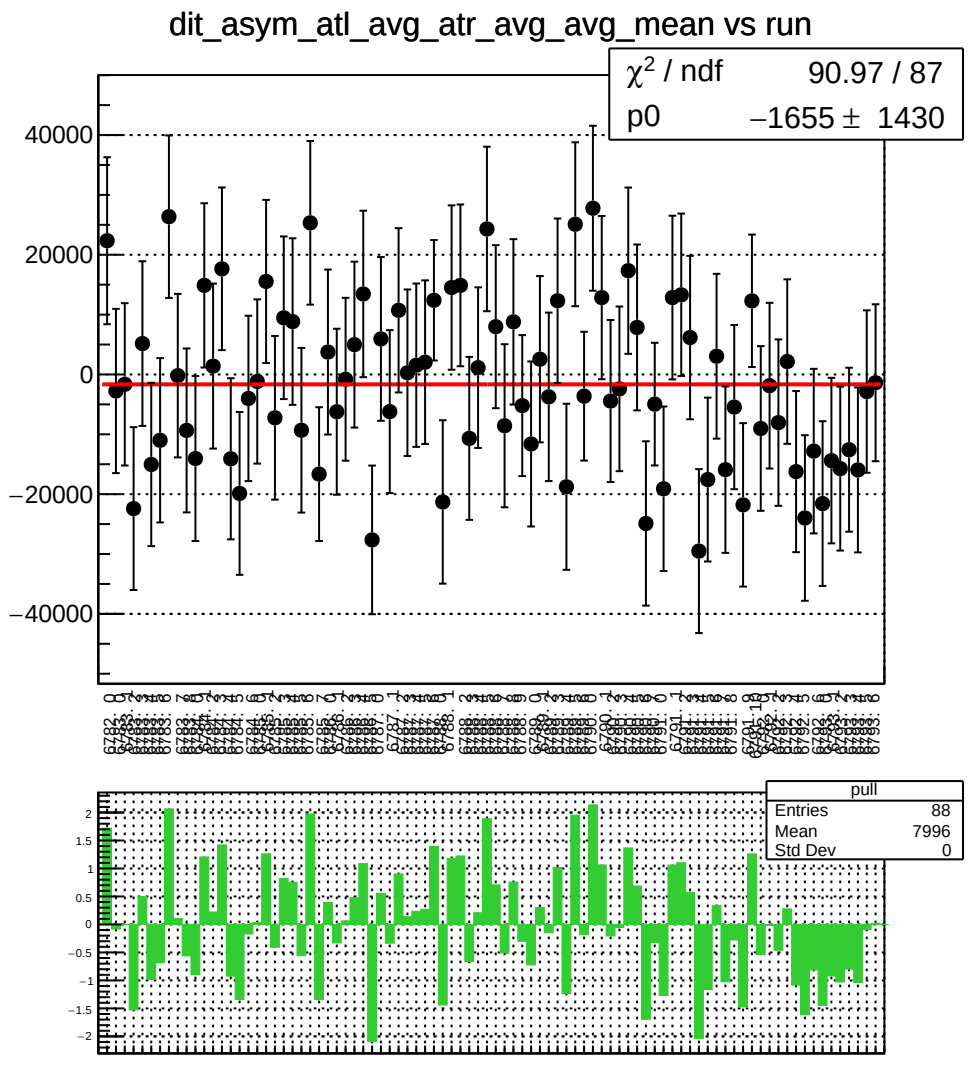

pull1D
Entries 88
Mean −0.000102
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

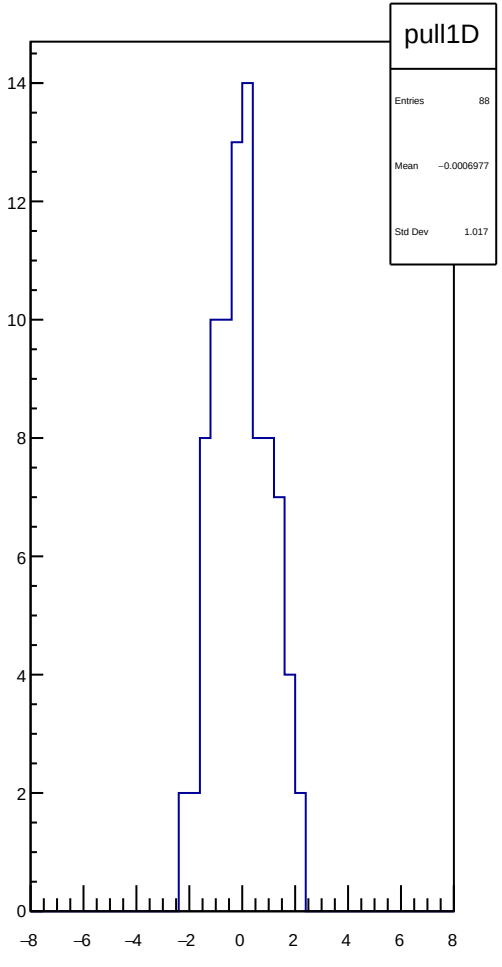

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 152.5 / 87
p0 1269 ± 0.9868
1320
1300
1280
1260
1240

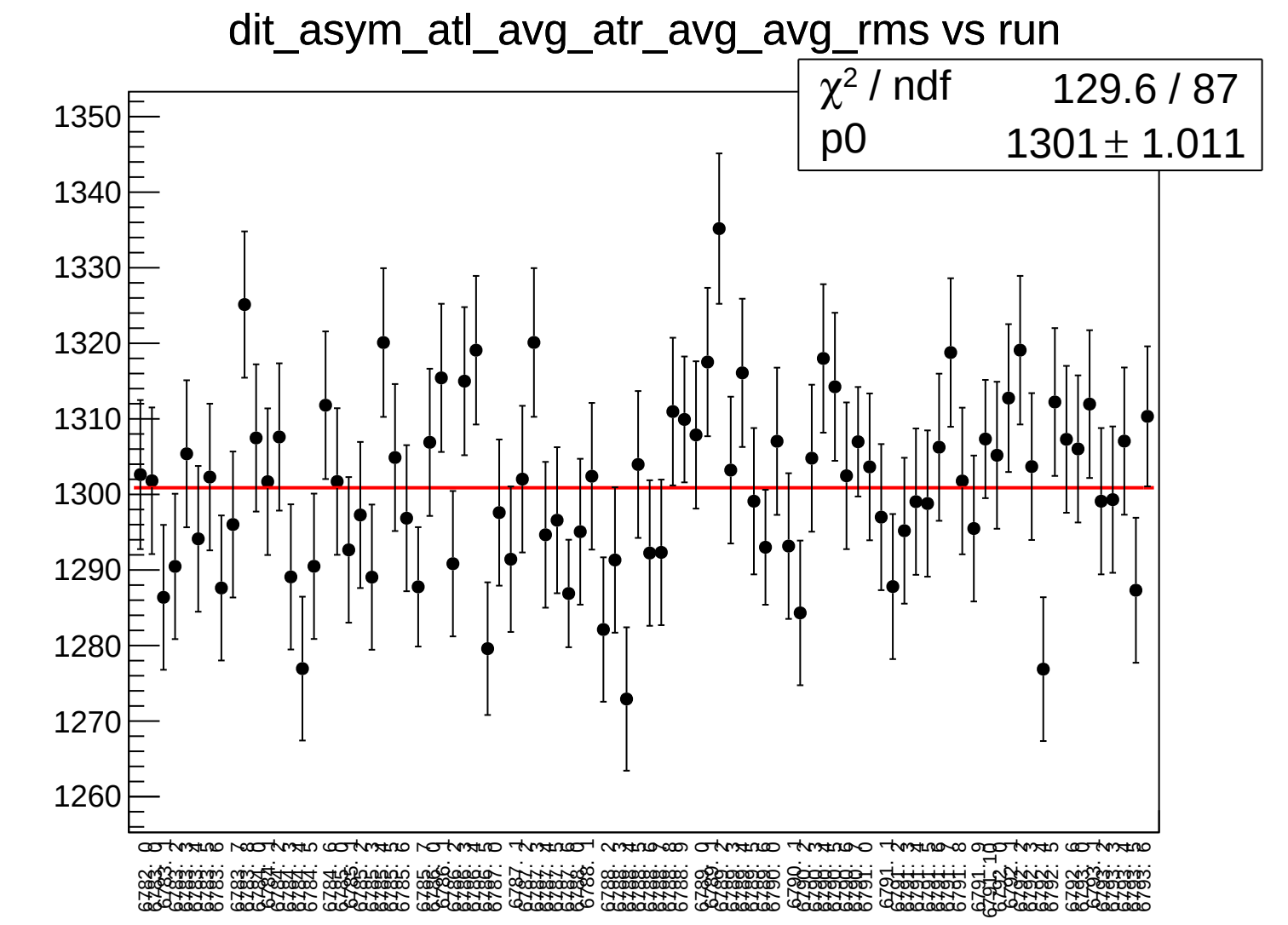

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.09 / 87
p0 −2805 ± 4024
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8.217
Std Dev 0
2
1
0
−1
−2

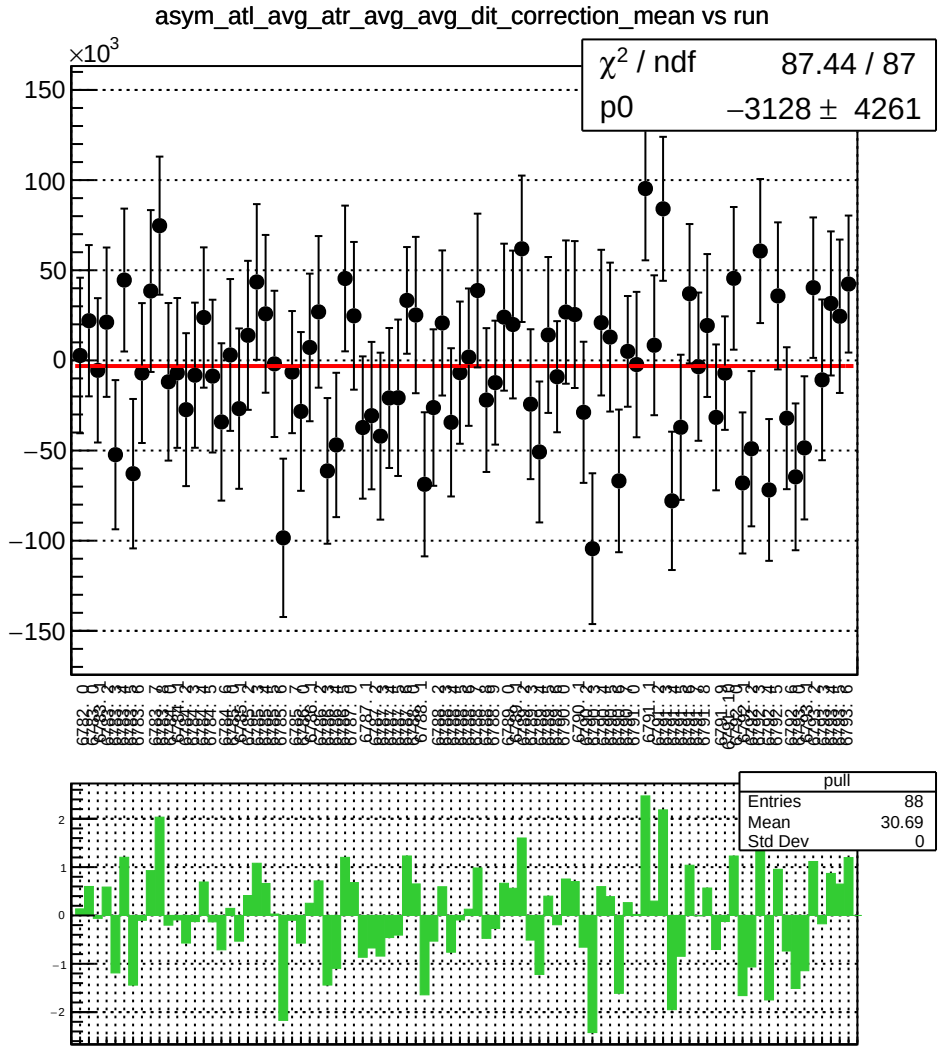

pull1D
Entries 88
Mean −0.007854
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

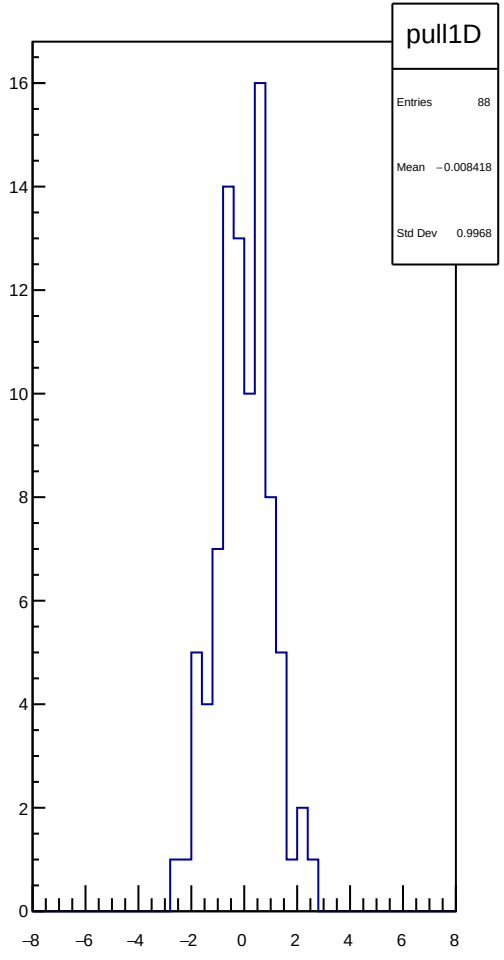

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3104 / 87
p0 3657 ± 2.845
4200
4100
4000
3900
3800
3700
3600
3500
3400

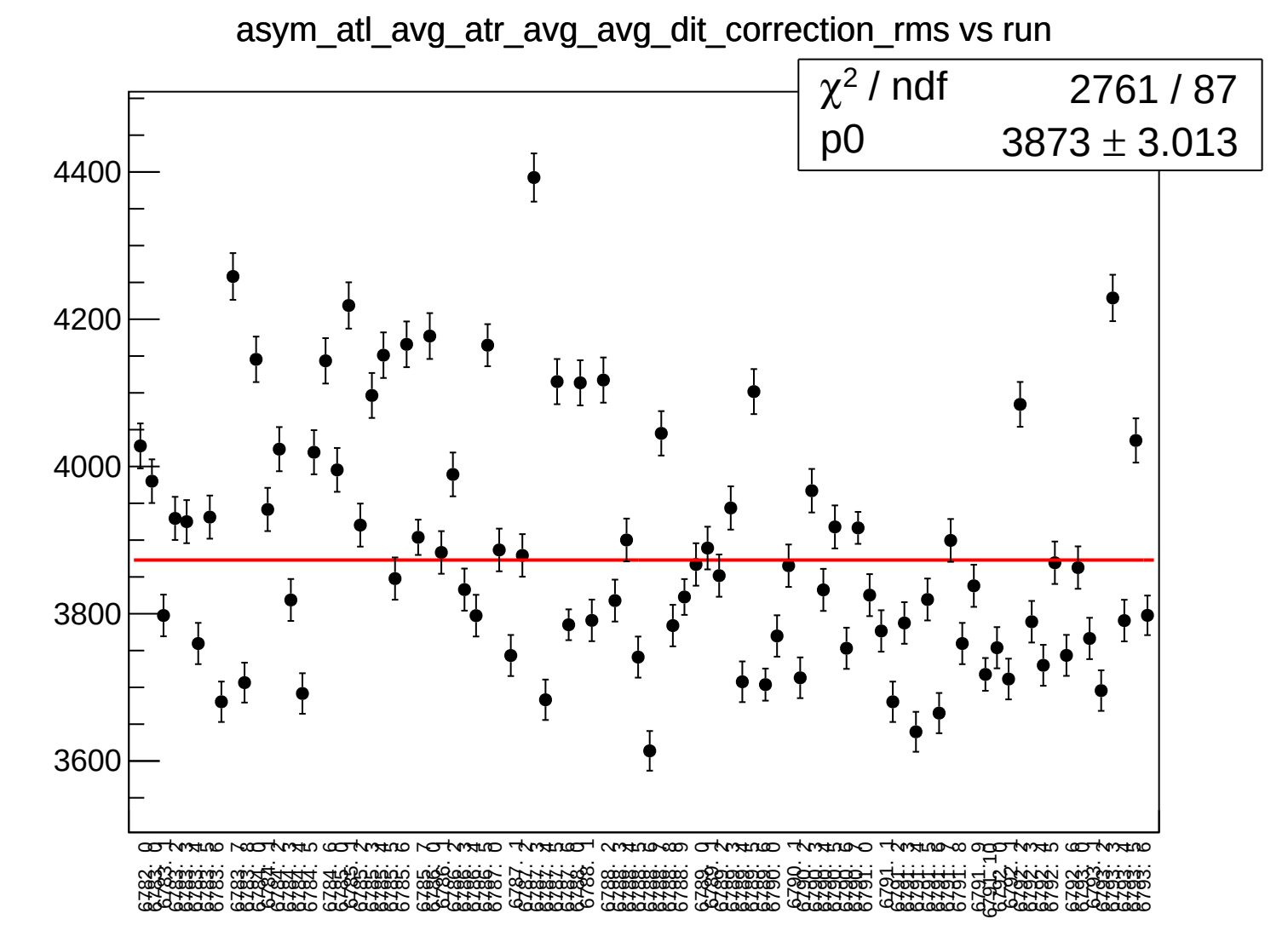

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.97 / 87
p0 −1655 ± 1430
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 7996
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

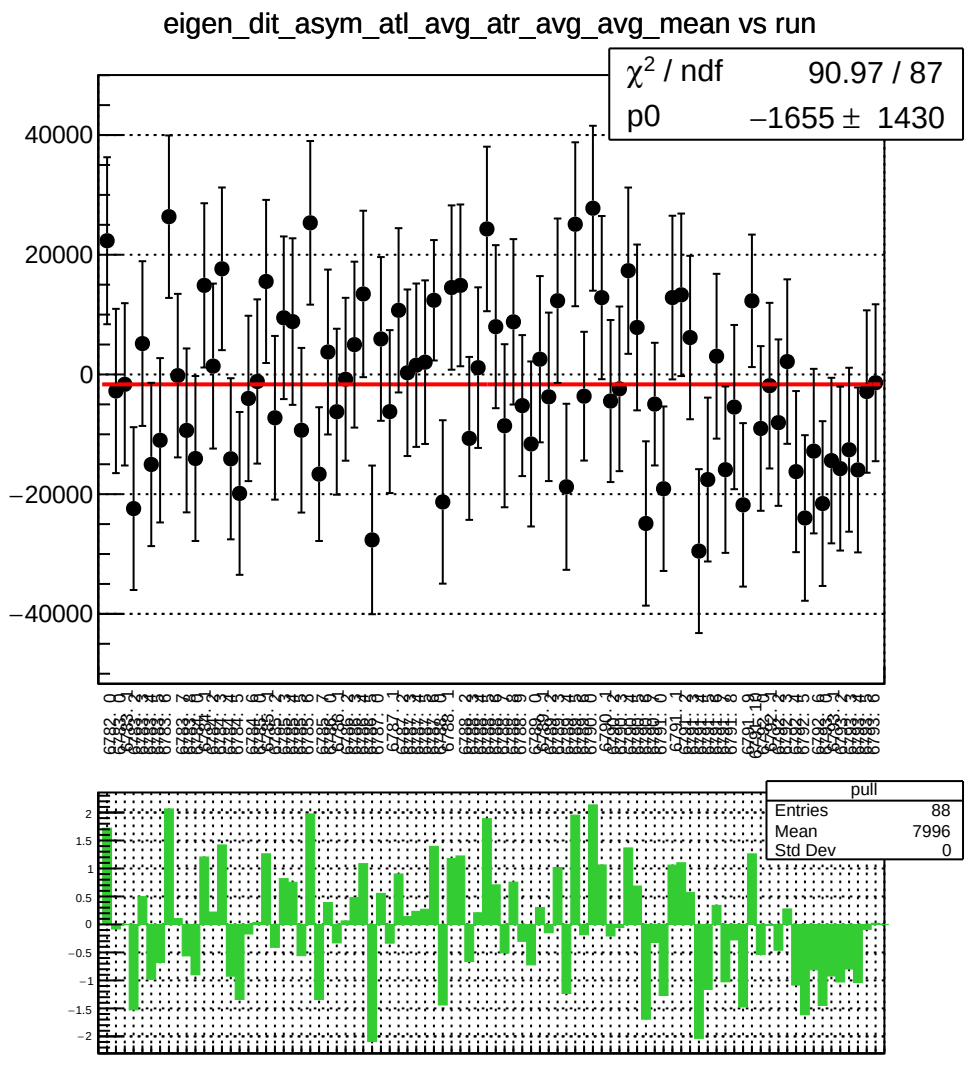

pull1D
Entries 88
Mean −0.0006977
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

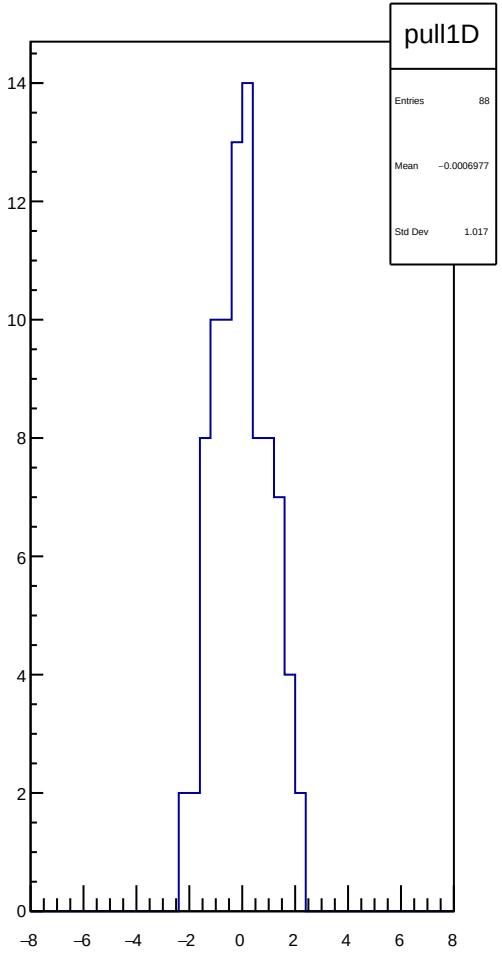

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 129.6 / 87
p0 1301 ± 1.011
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

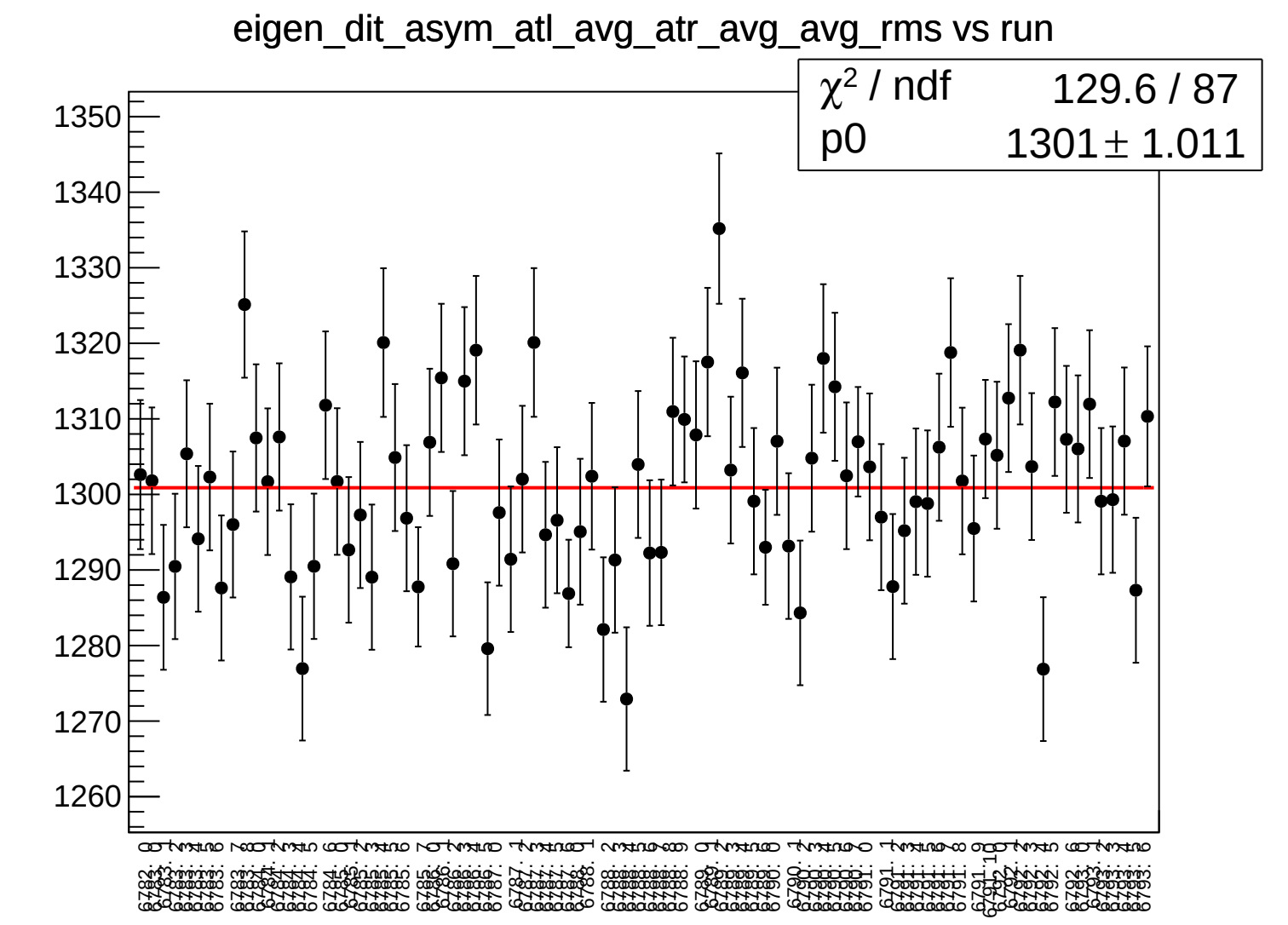

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.44 / 87
p0 −3128 ± 4261
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 30.69
Std Dev 0
2
1
0
−1
−2

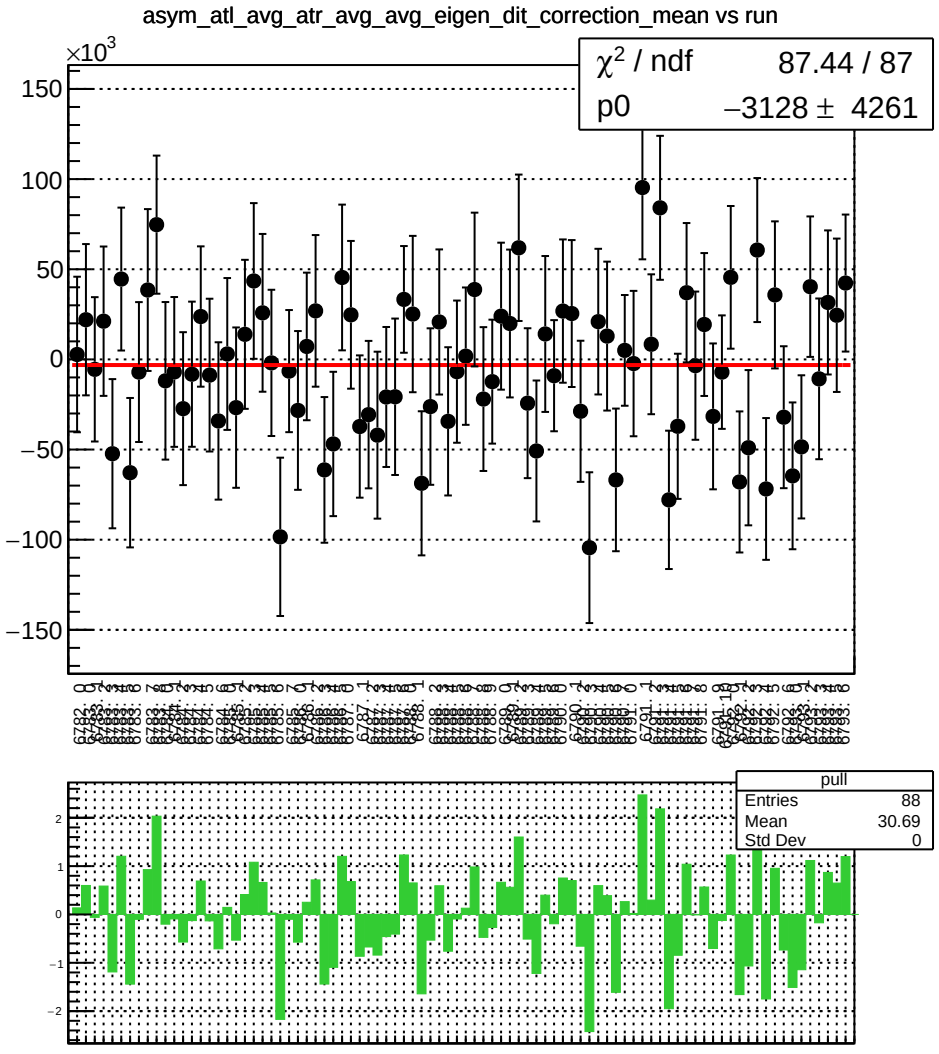

pull1D
Entries 88
Mean −0.008418
Std Dev 0.9968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

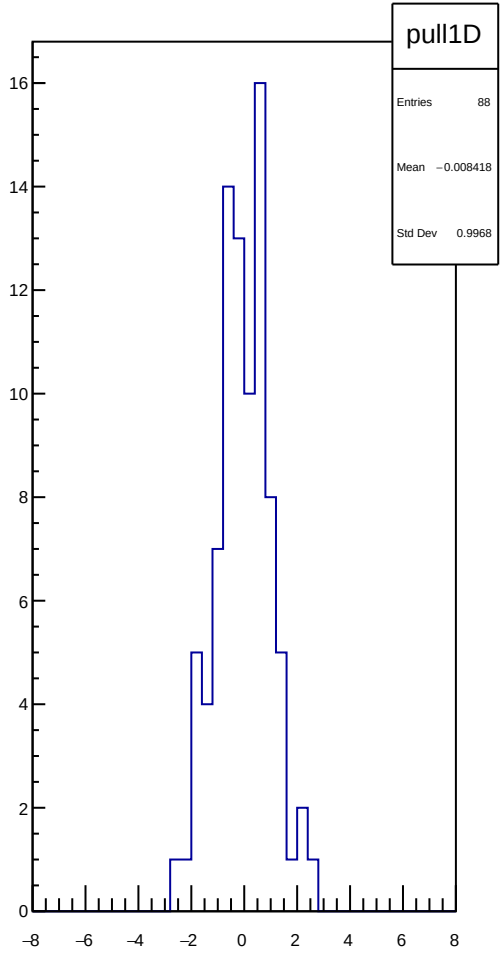

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2761 / 87
p0 3873 ± 3.013
4400
4200
4000
3800
3600

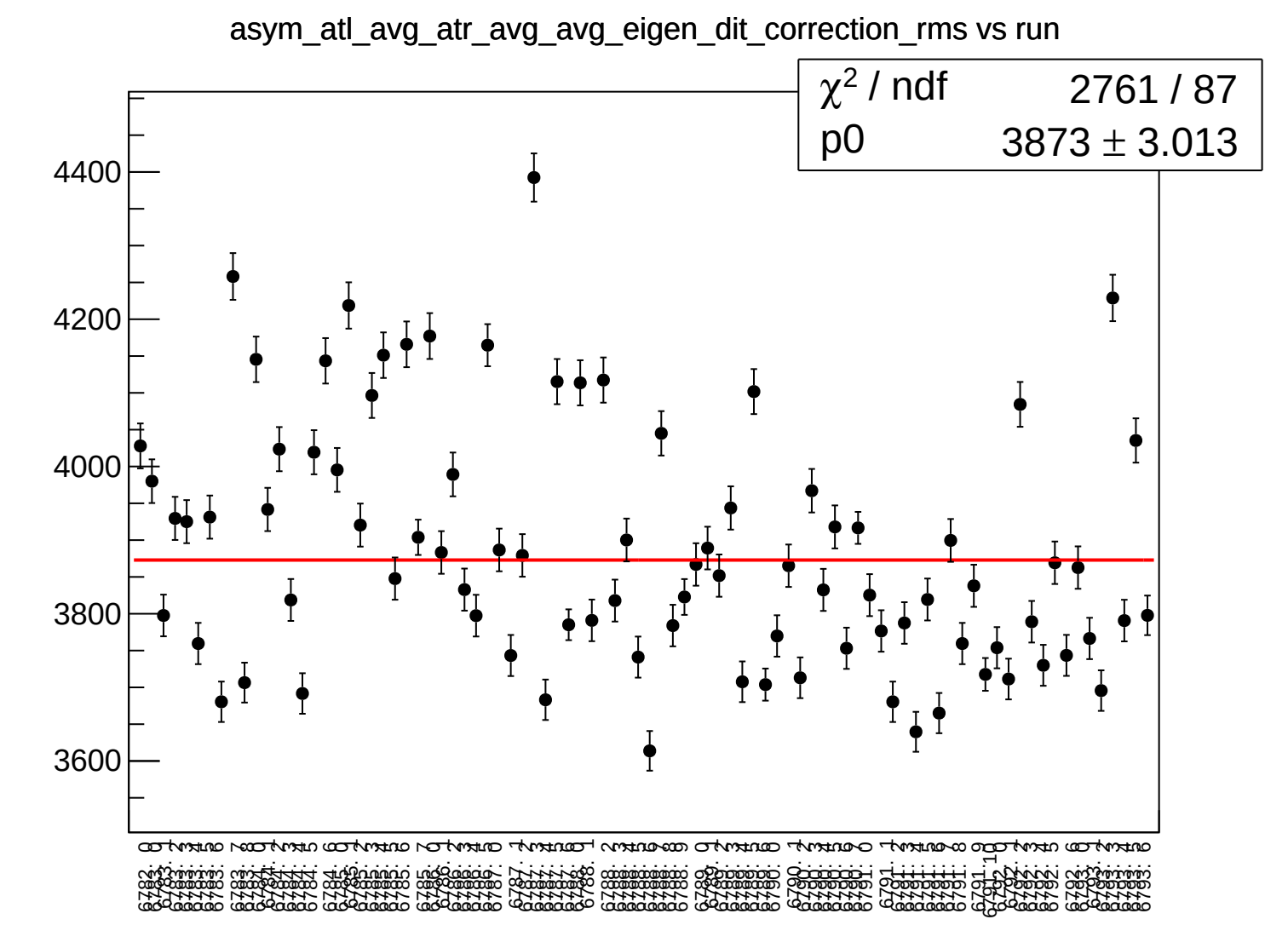

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.97 / 87
p0 −1655 ± 1430
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 7996
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

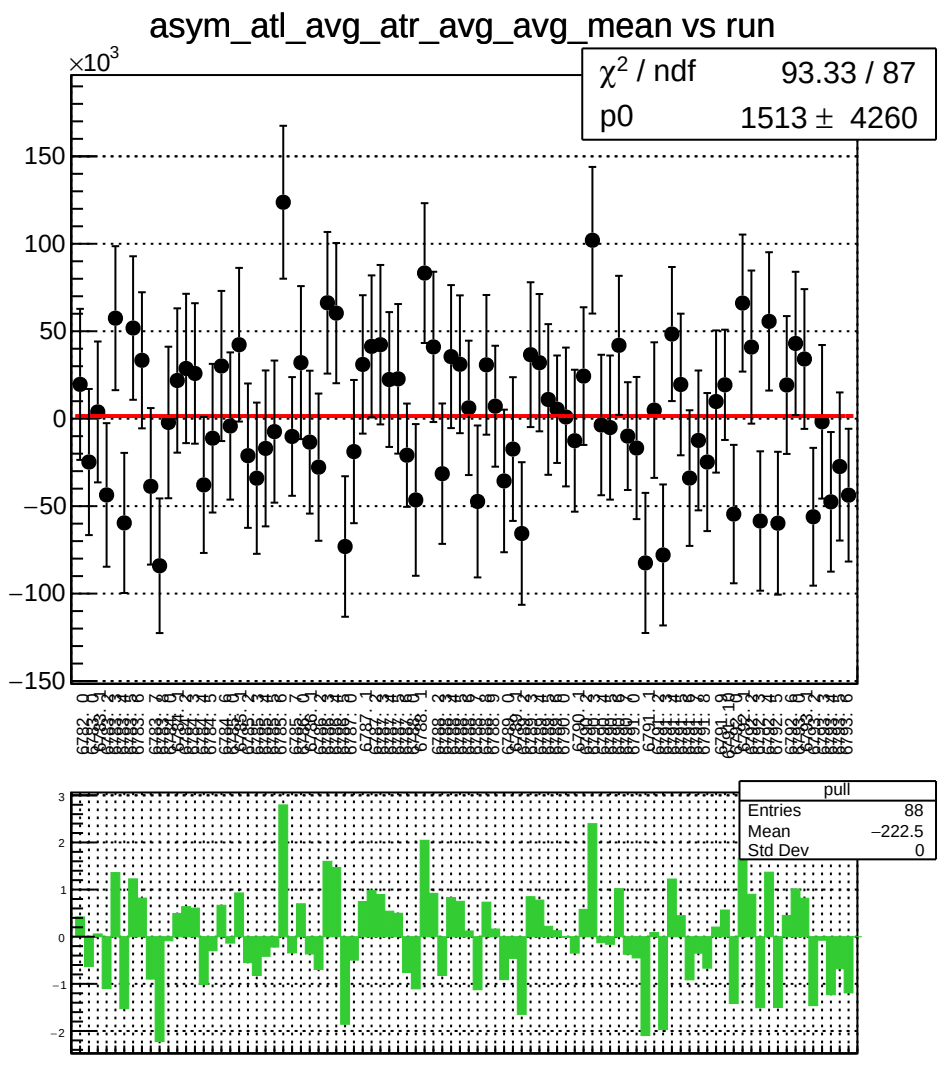

pull1D
Entries 88
Mean −0.0006977
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

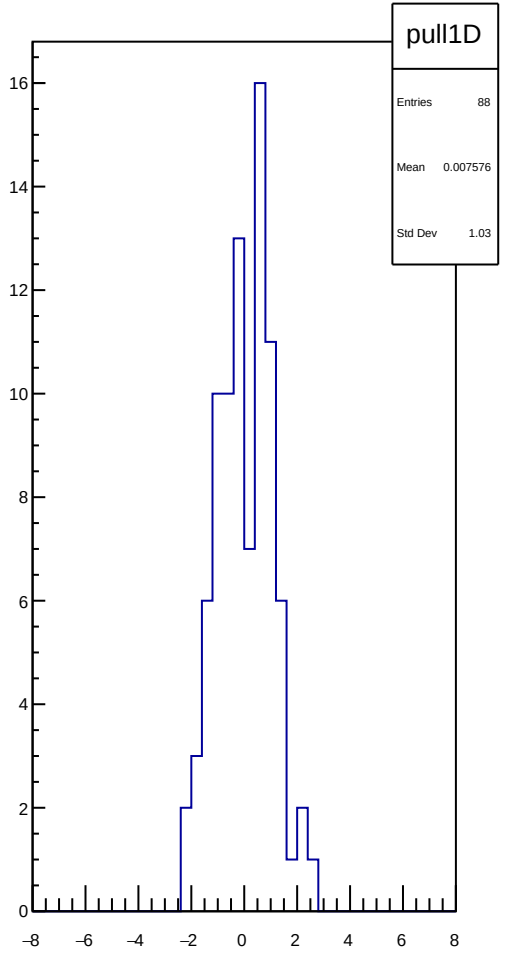

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 129.6 / 87
p0 1301 ± 1.011
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

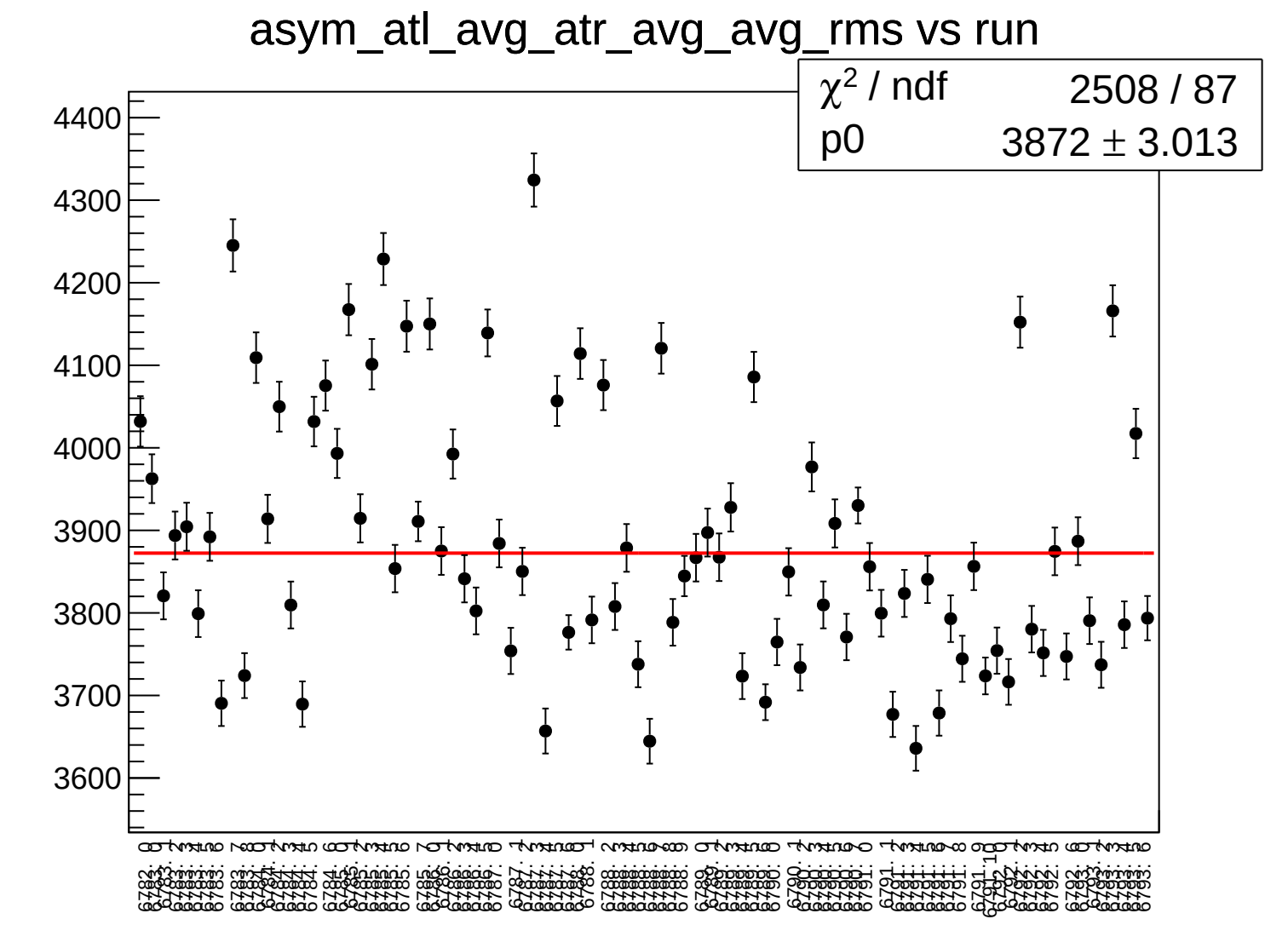

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.44 / 87
p0 −3128 ± 4261
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 30.69
Std Dev 0
2
1
0
−1
−2

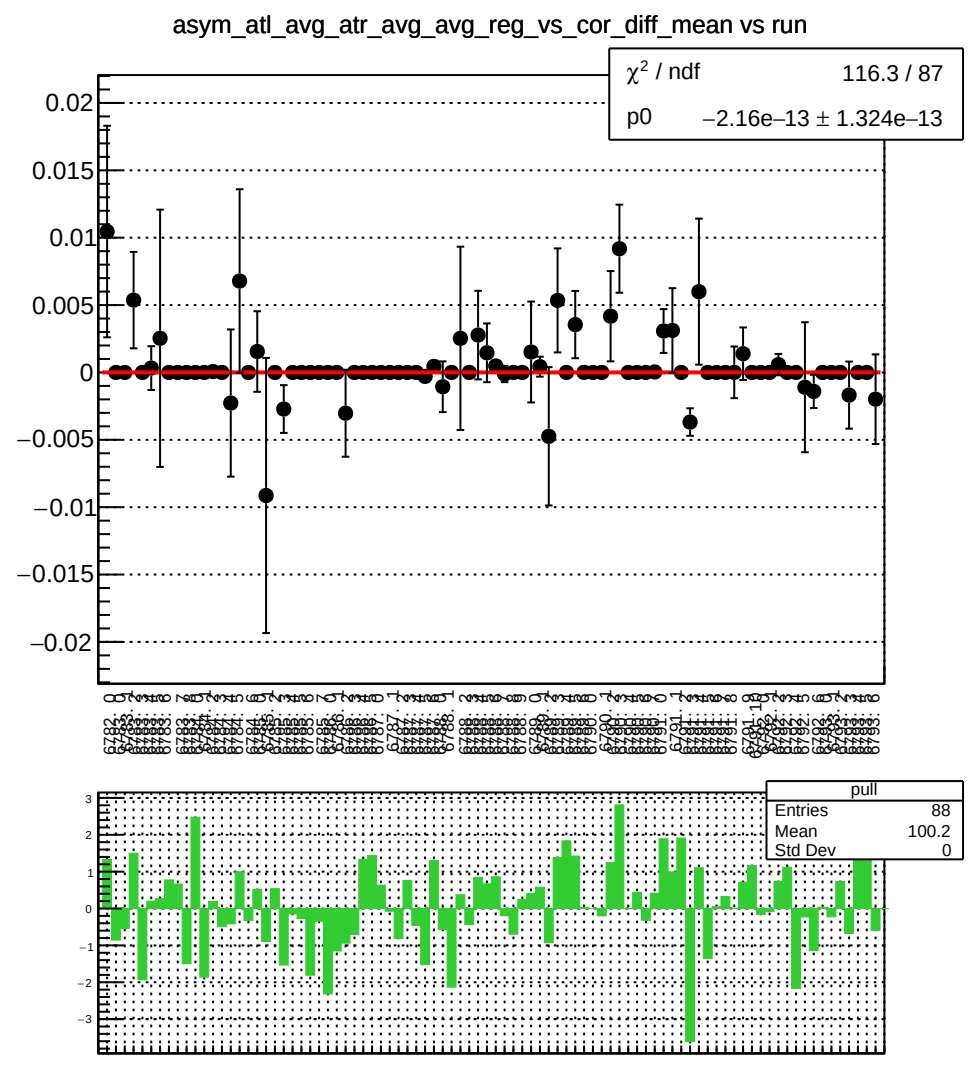

pull1D
Entries 88
Mean −0.008418
Std Dev 0.9968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

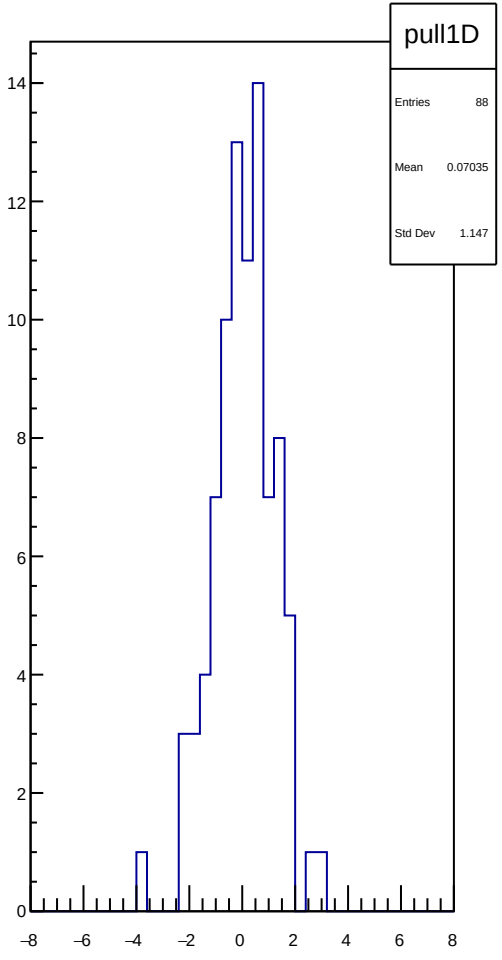

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2761 / 87
p0 3873 ± 3.013
4400
4200
4000
3800
3600

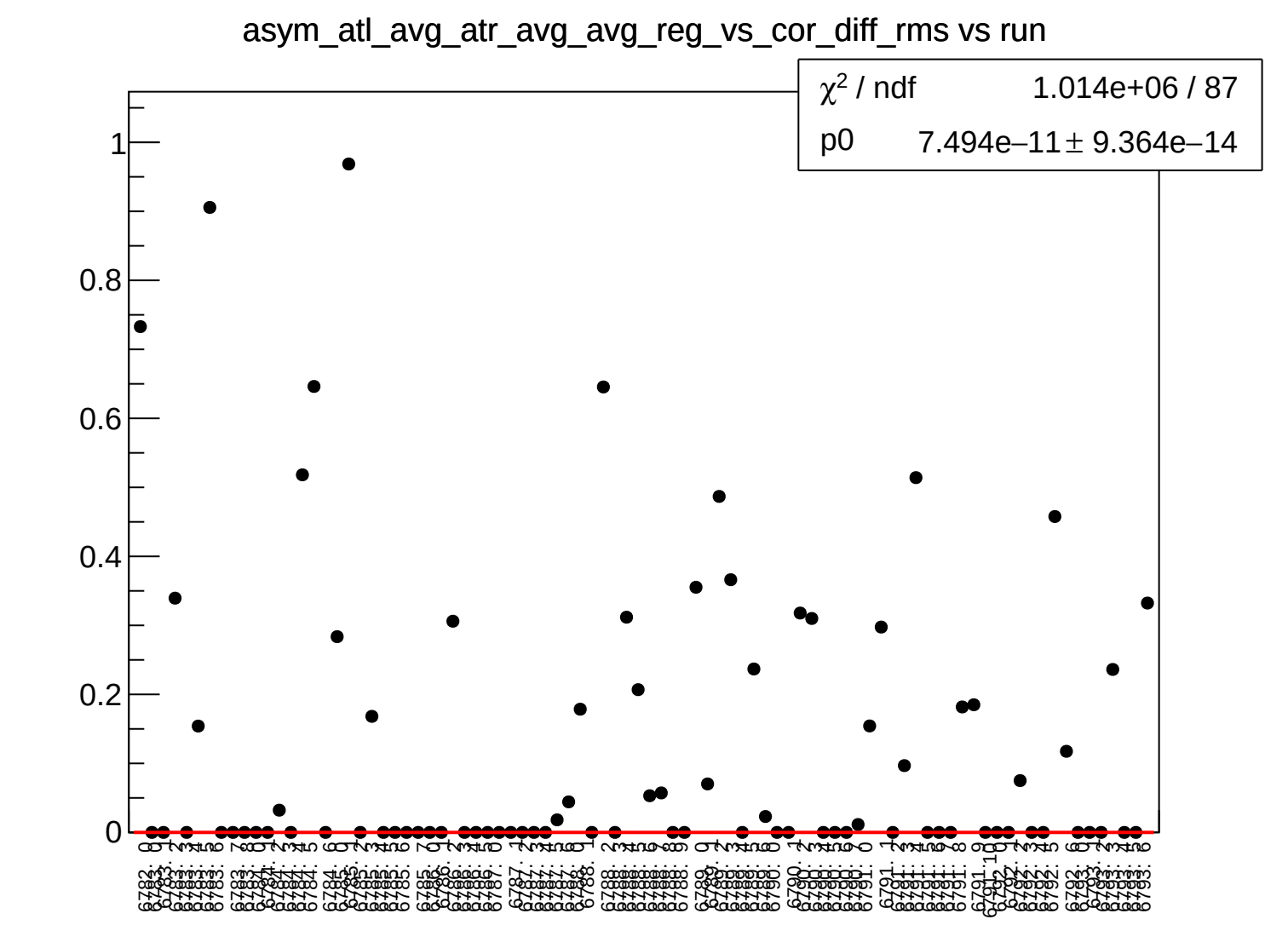

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 93.33 / 87
p0 1513 ± 4260
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −222.5
Std Dev 0
3
2
1
0
−1
−2

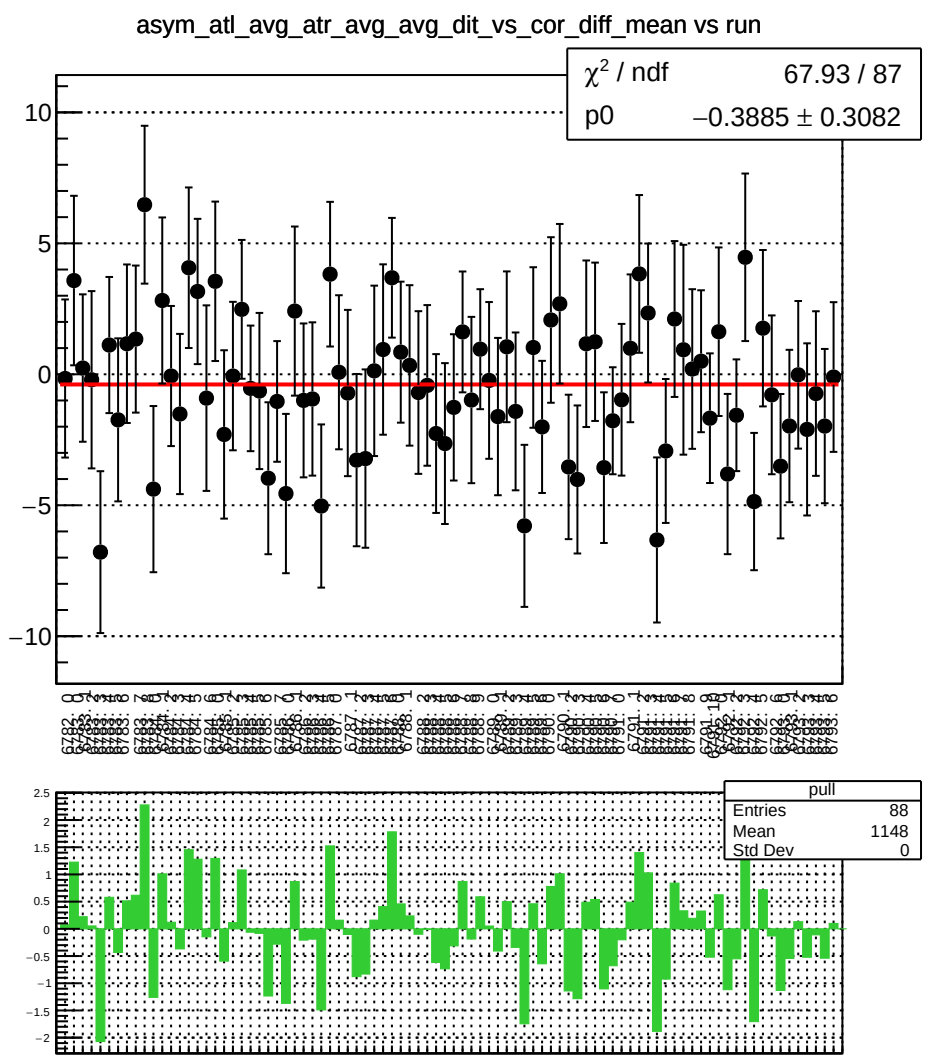

pull1D
Entries 88
Mean 0.007576
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

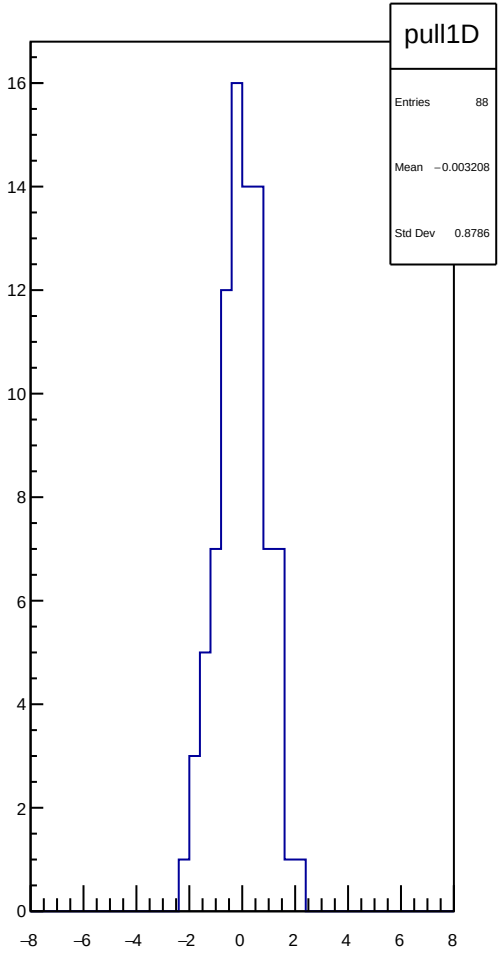

asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 2508 / 87
p0 3872 ± 3.013
4400
4300
4200
4100
4000
3900
3800
3700
3600

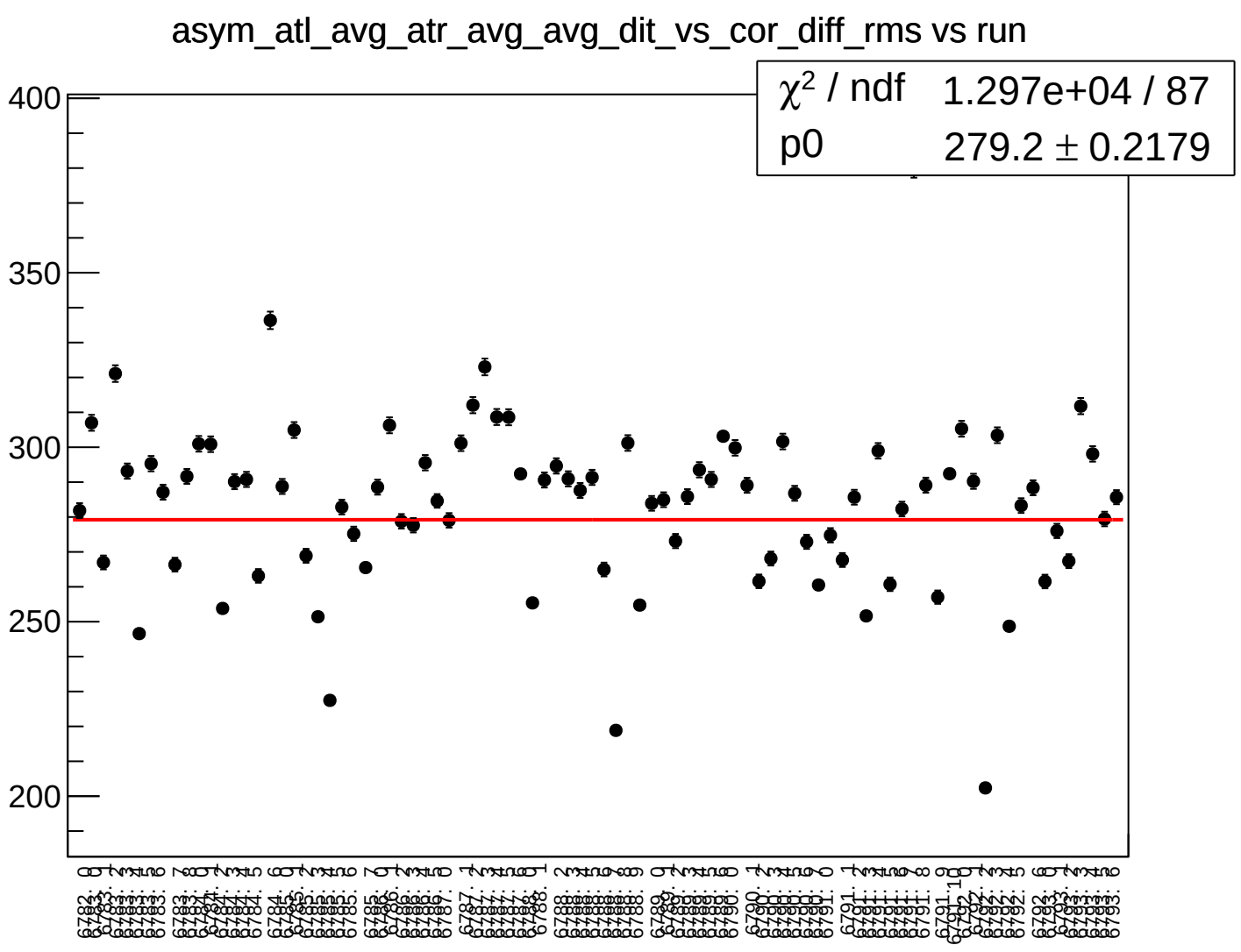

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 116.3 / 87
p0 −2.16e−13 ± 1.324e−13
pull
Entries 88
Mean 100.2
Std Dev 0

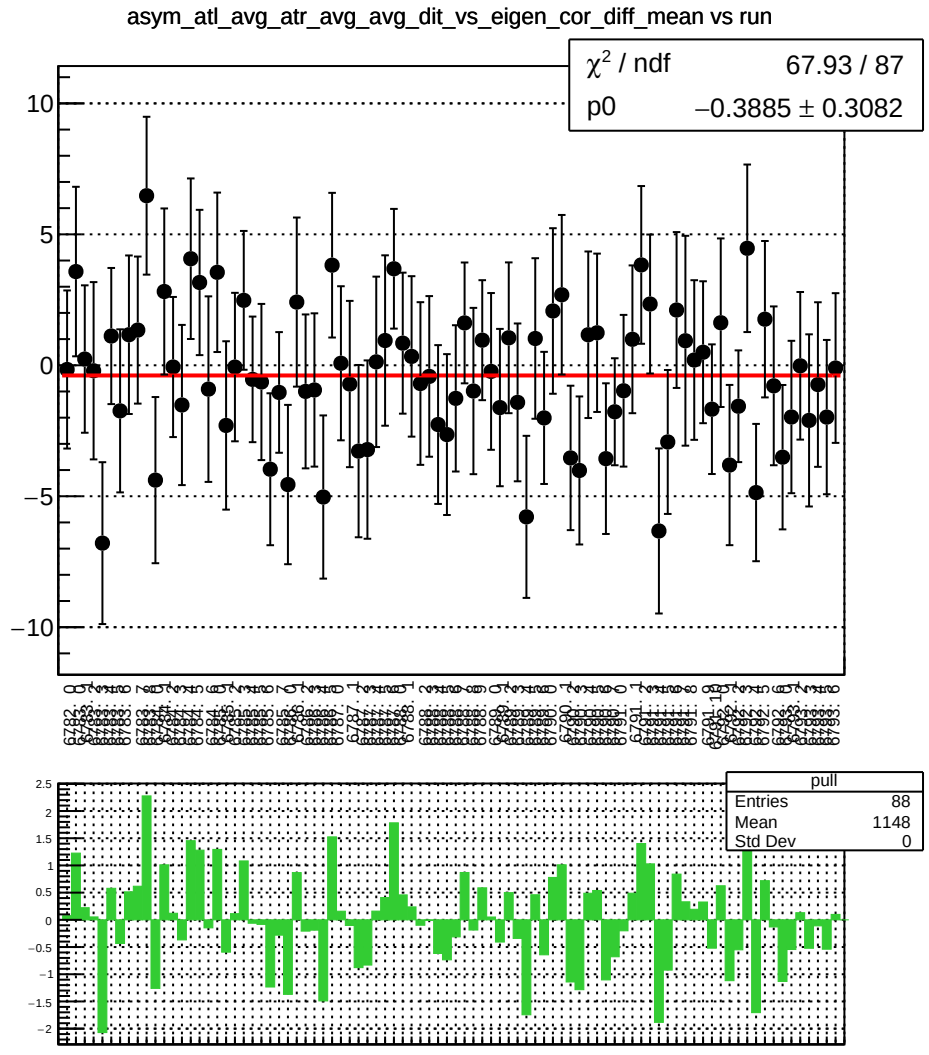

pull1D
Entries 88
Mean 0.07035
Std Dev 1.147

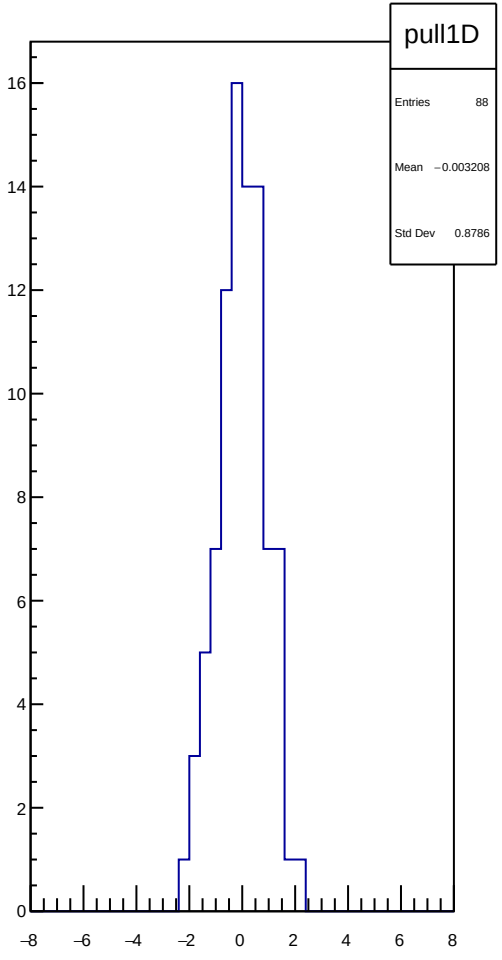

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 87
p0 7.494e−11 ± 9.364e−14
1
0.8
0.6
0.4
0.2
0

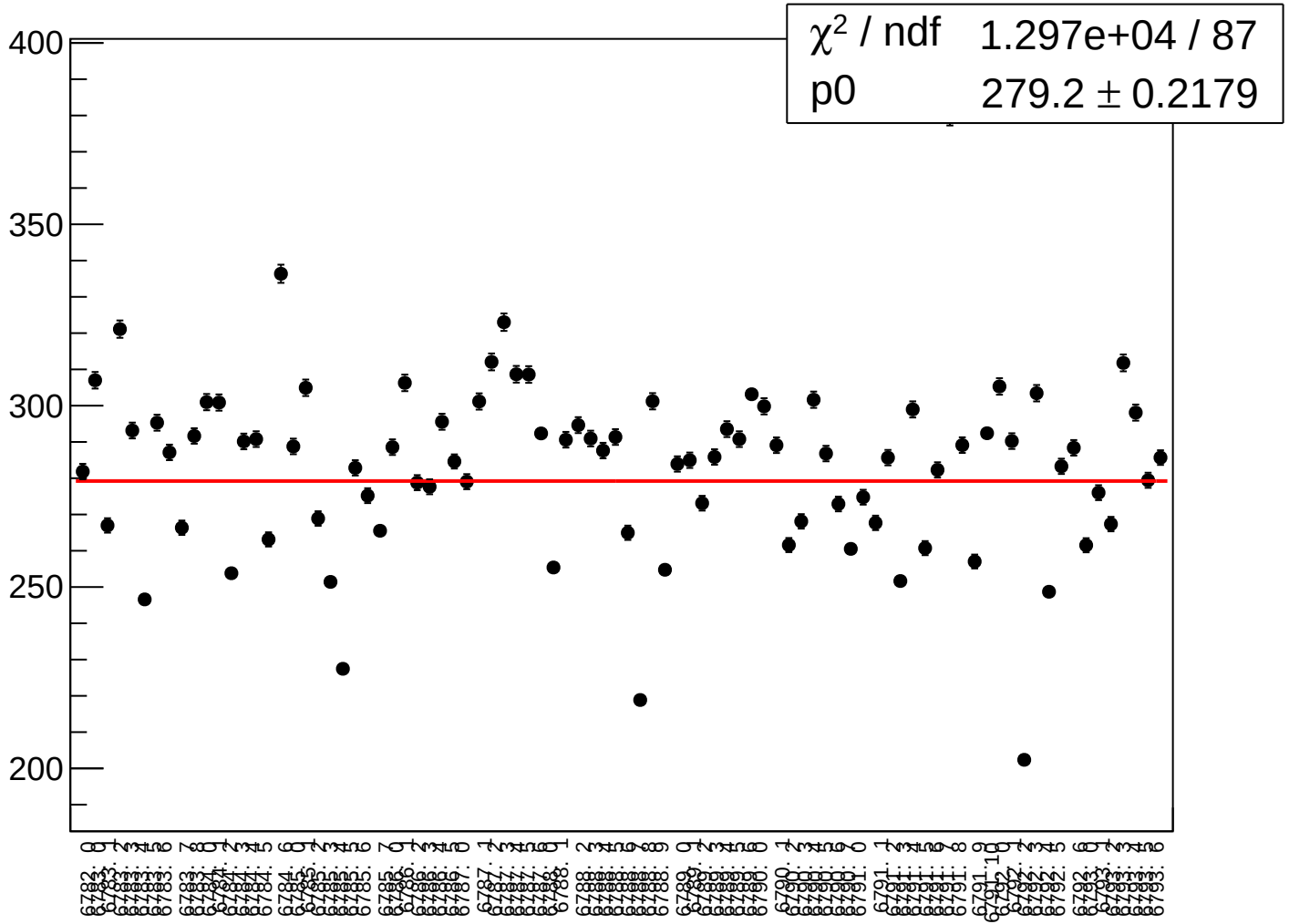

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.93 / 87
p0 −0.3885 ± 0.3082
pull
Entries 88
Mean 1148
Std Dev 0

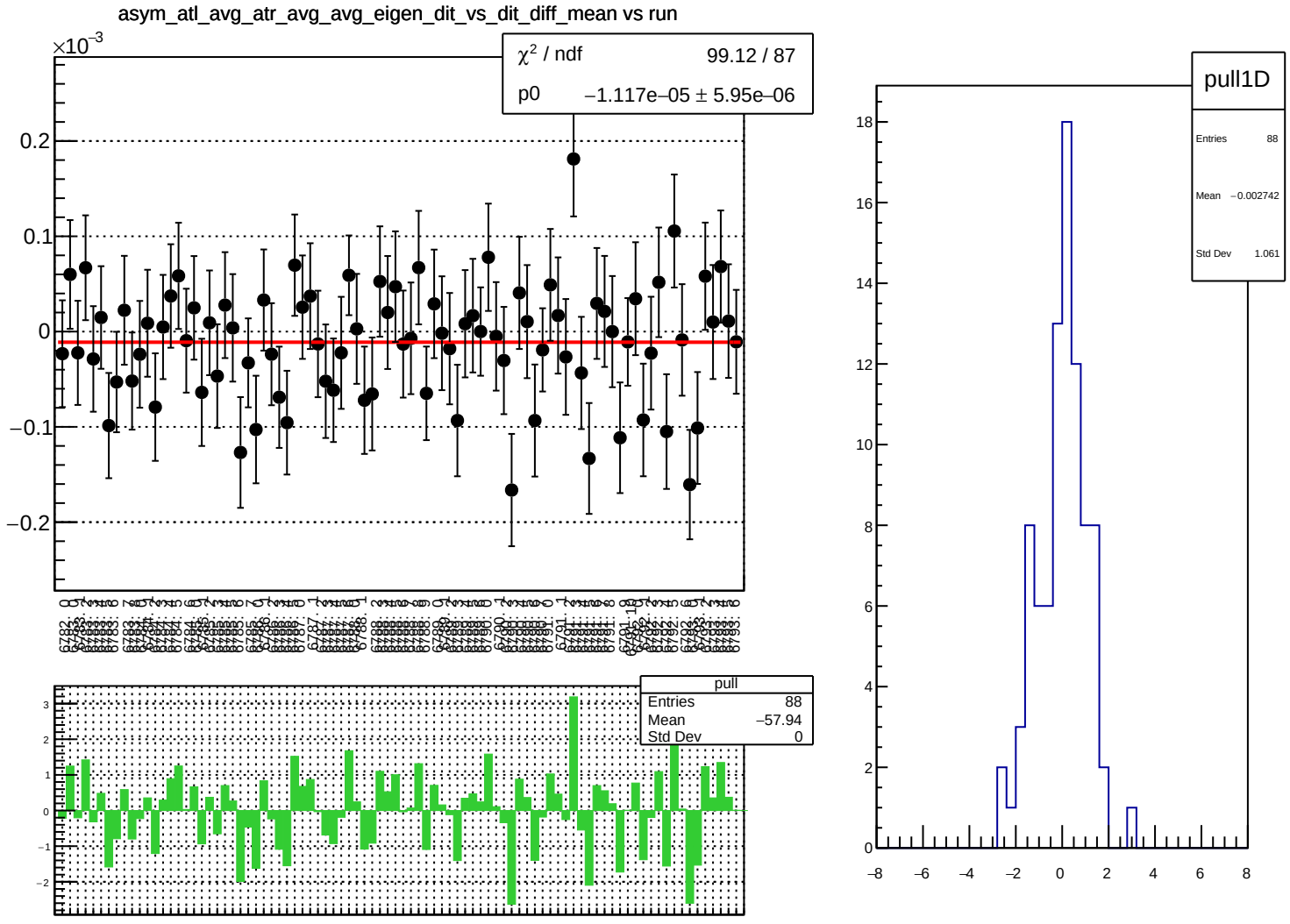

pull1D
Entries 88
Mean −0.003208
Std Dev 0.8786

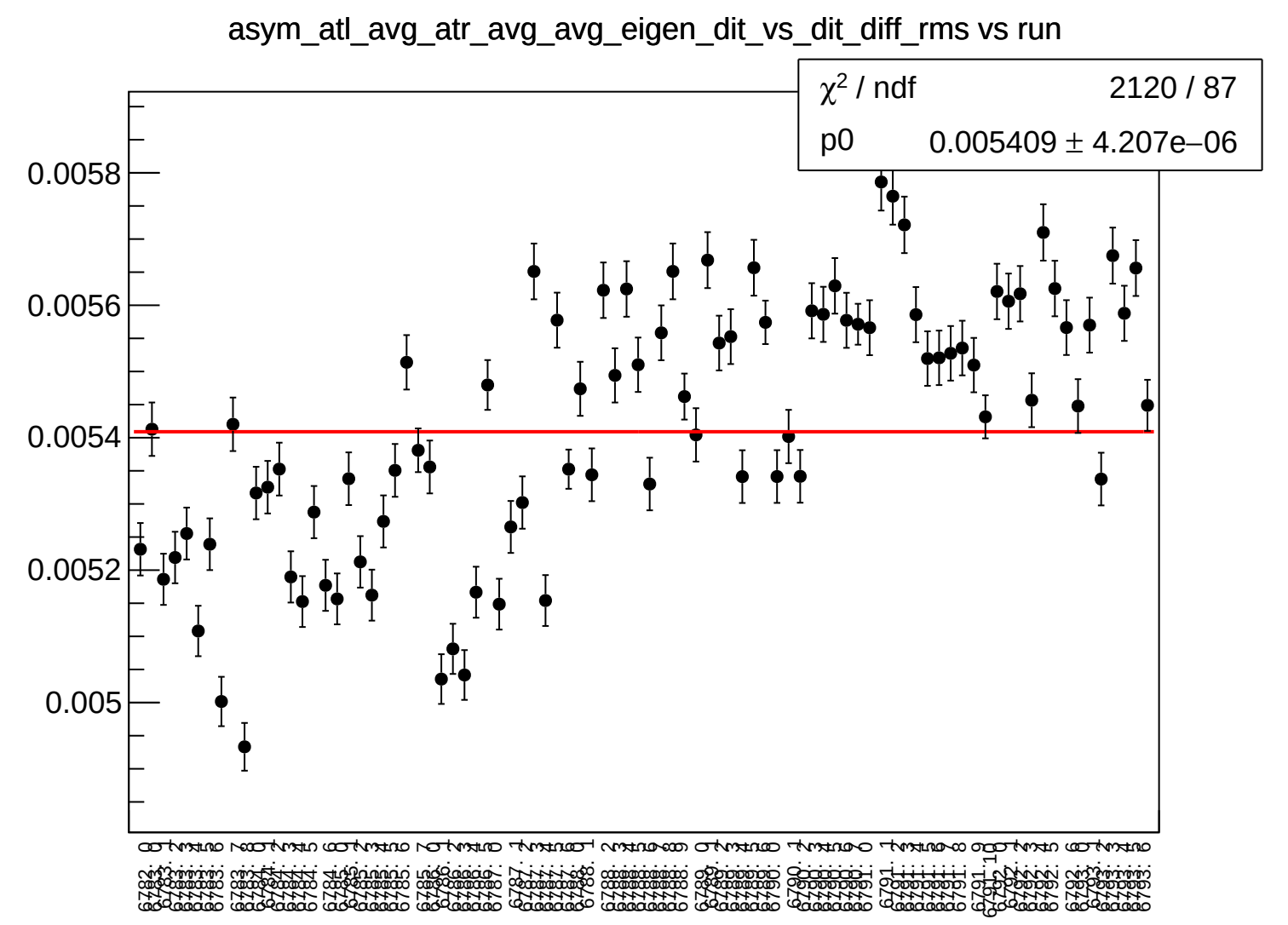

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.297e+04 / 87
p0 279.2 ± 0.2179
400
350
300
250
200

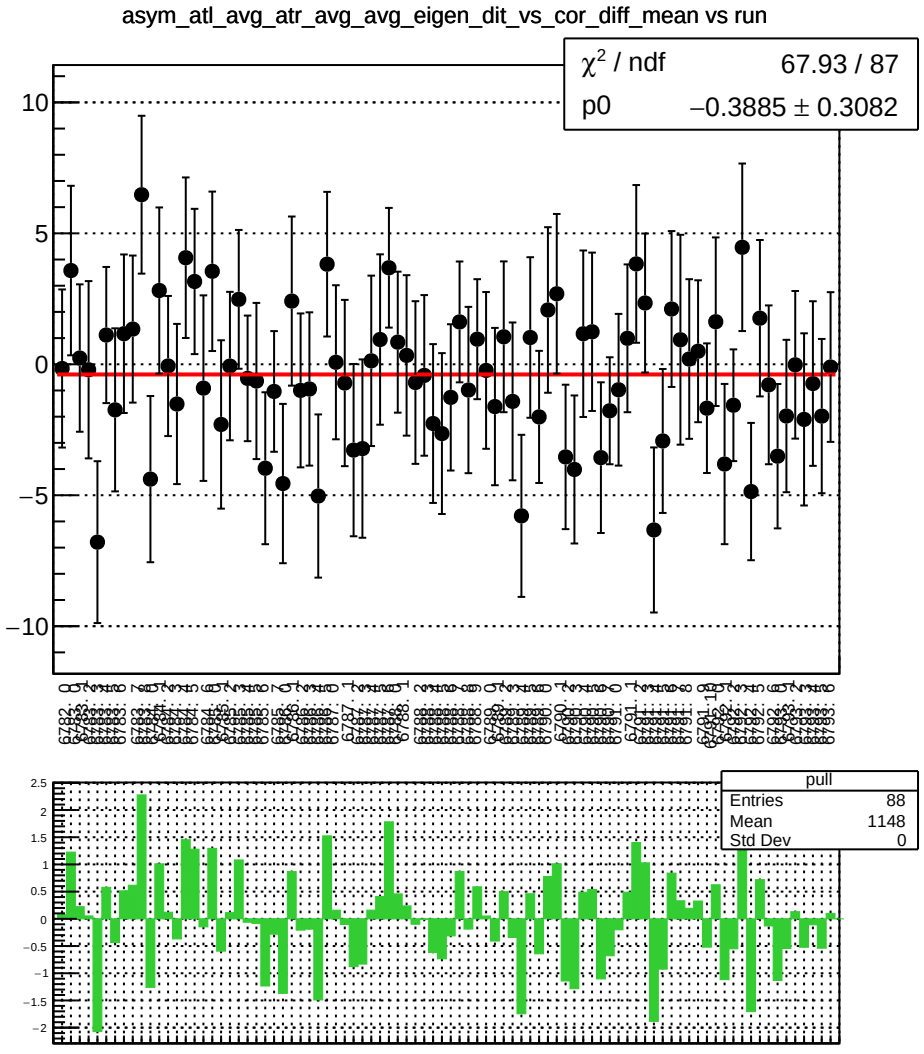

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.93 / 87
p0 −0.3885 ± 0.3082
pull
Entries 88
Mean 1148
Std Dev 0

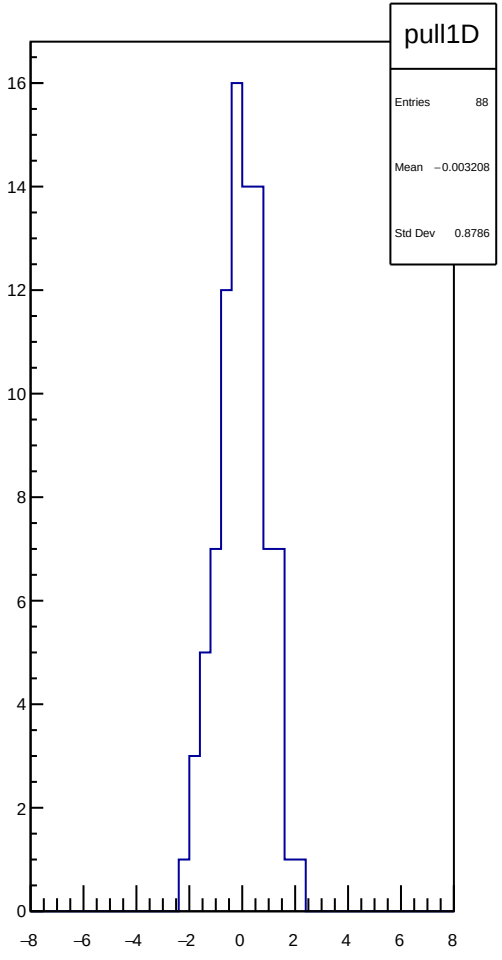

pull1D
Entries 88
Mean −0.003208
Std Dev 0.8786

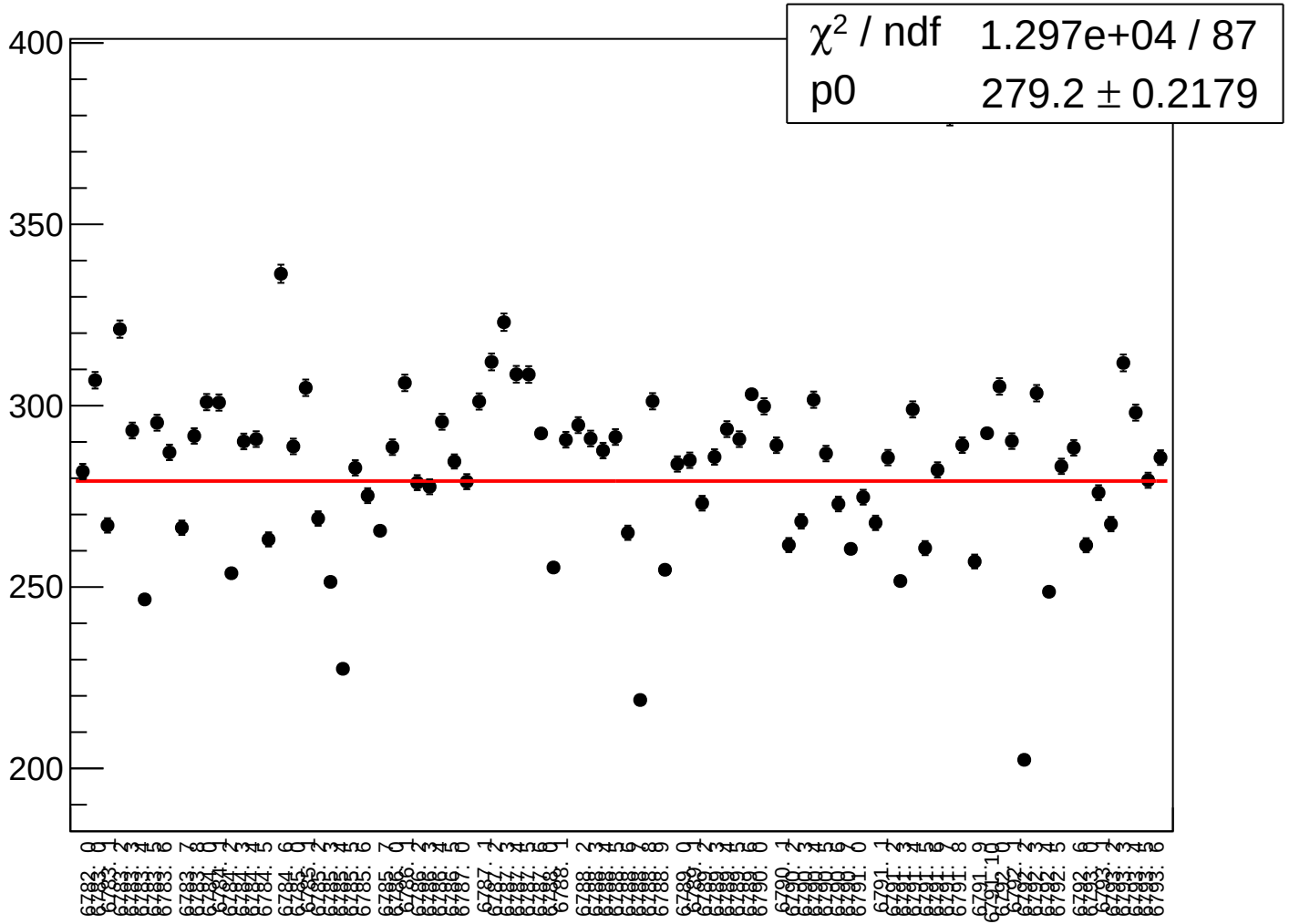

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.297e+04 / 87
p0 279.2 ± 0.2179
400
350
300
250
200

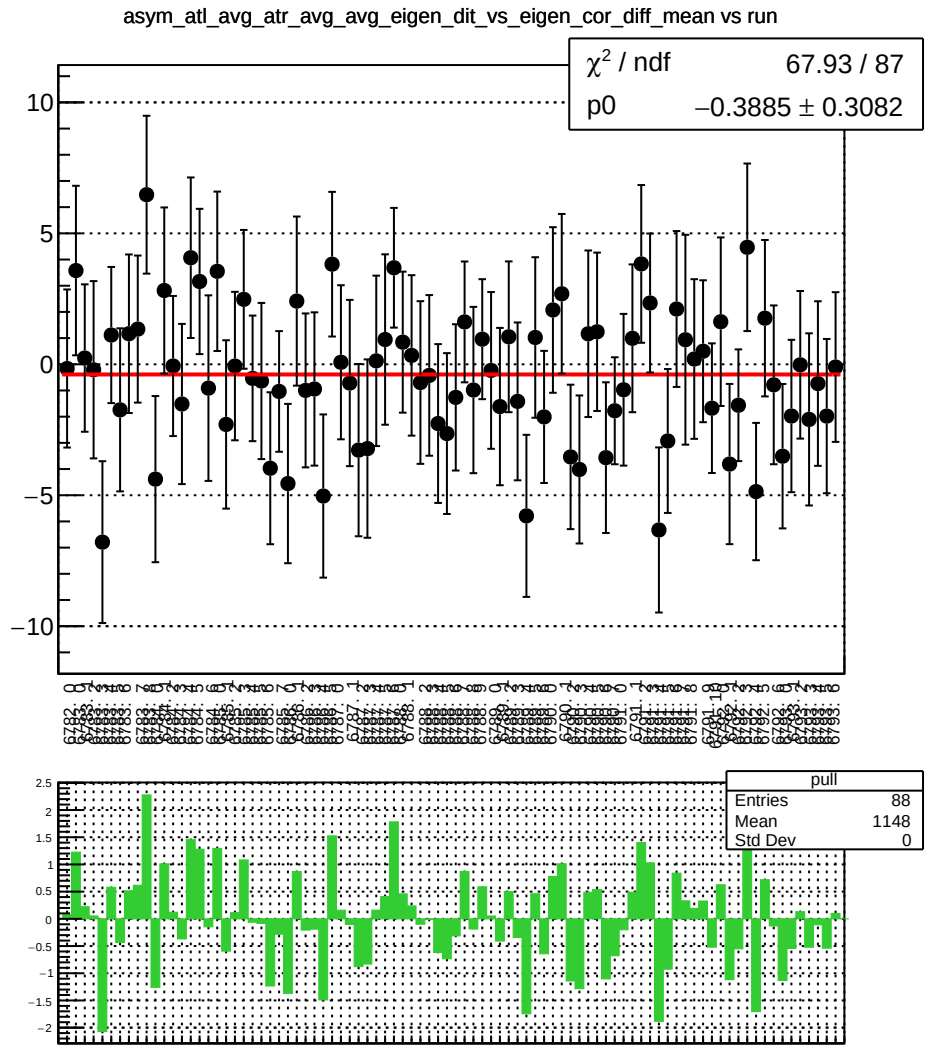

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.12 / 87
p0 −1.117e−05 ± 5.95e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −57.94
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002742
Std Dev 1.061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

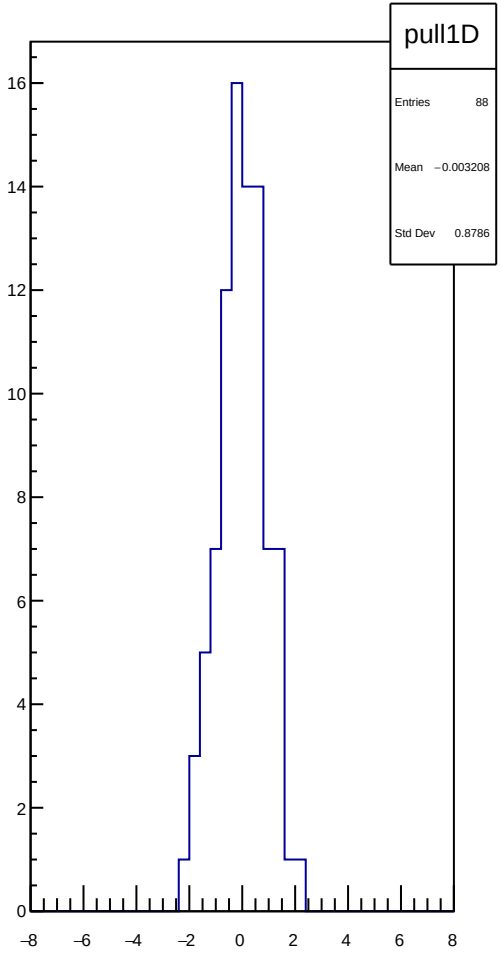

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2120 / 87
p0 0.005409 ± 4.207e−06
0.0058
0.0056
0.0054
0.0052
0.005

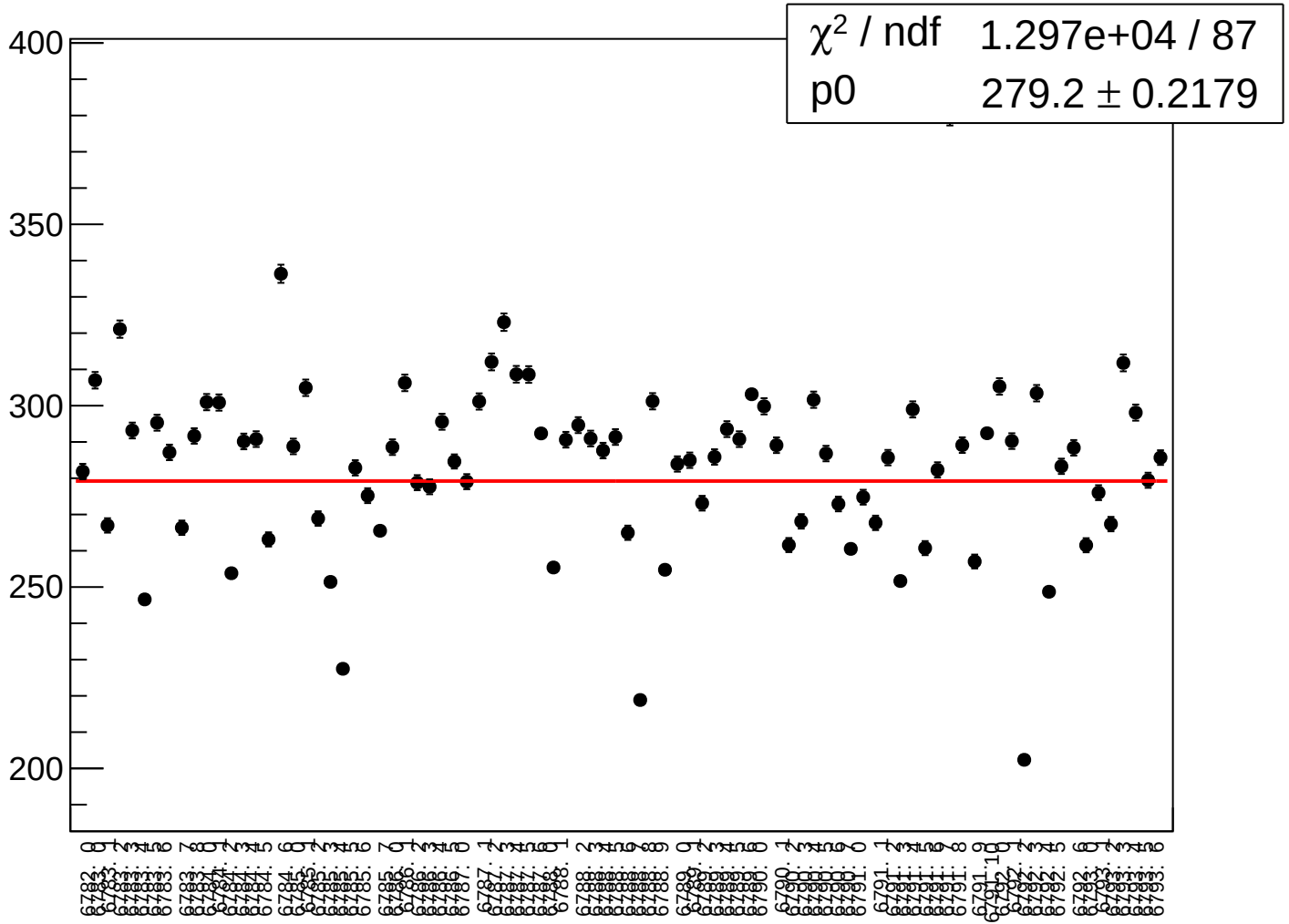

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.93 / 87
p0 −0.3885 ± 0.3082
pull
Entries 88
Mean 1148
Std Dev 0

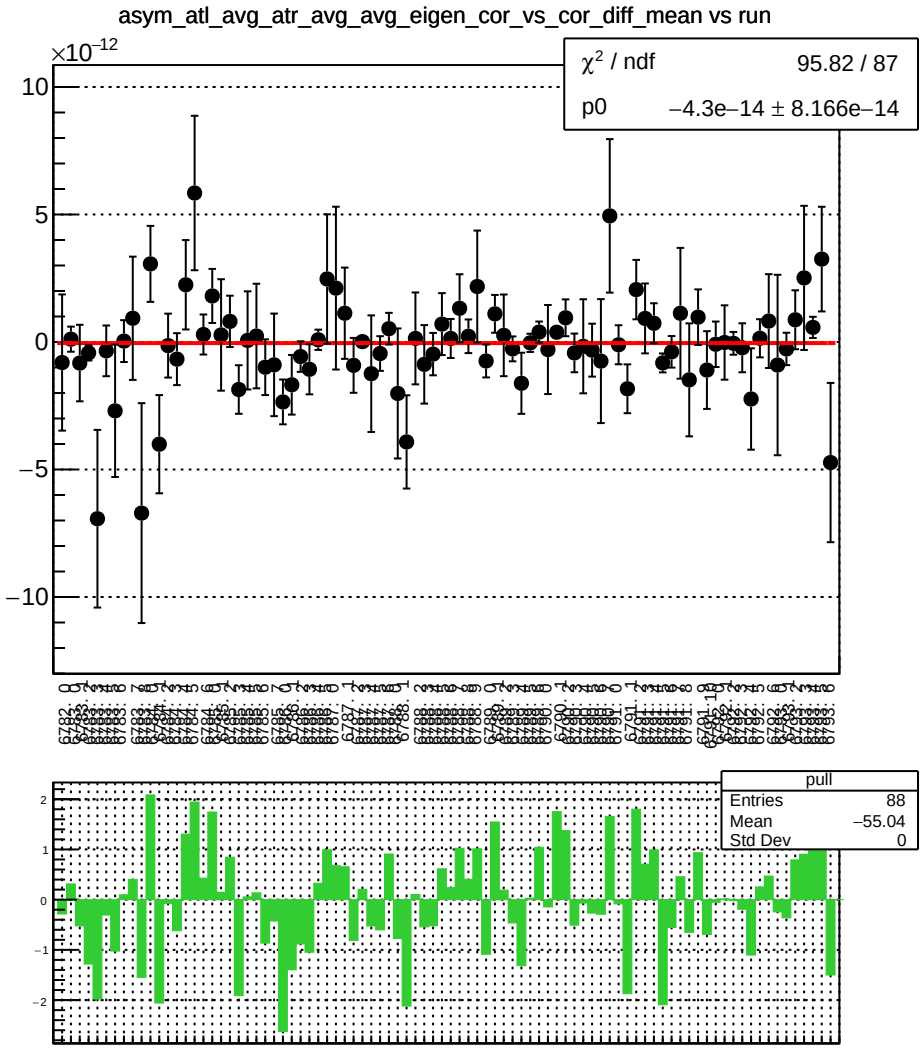

pull1D
Entries 88
Mean −0.003208
Std Dev 0.8786

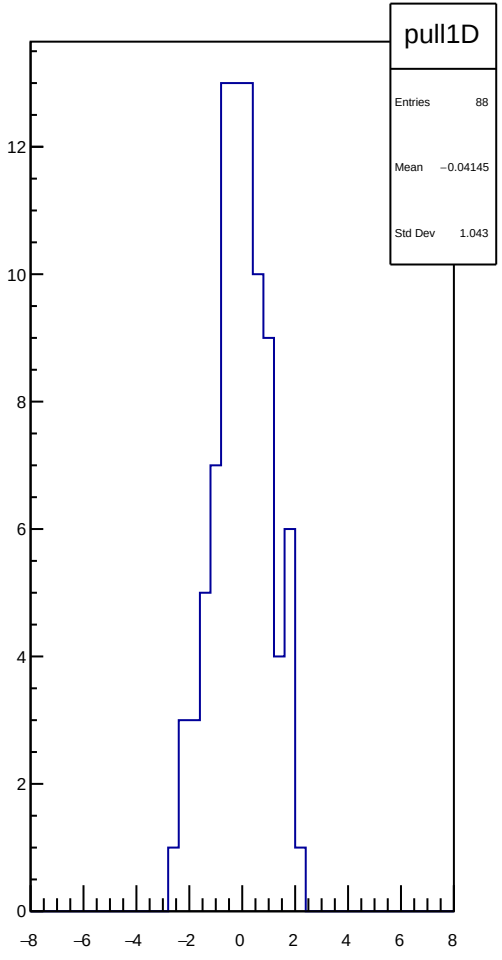

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.297e+04 / 87
p0 279.2 ± 0.2179
400
350
300
250
200

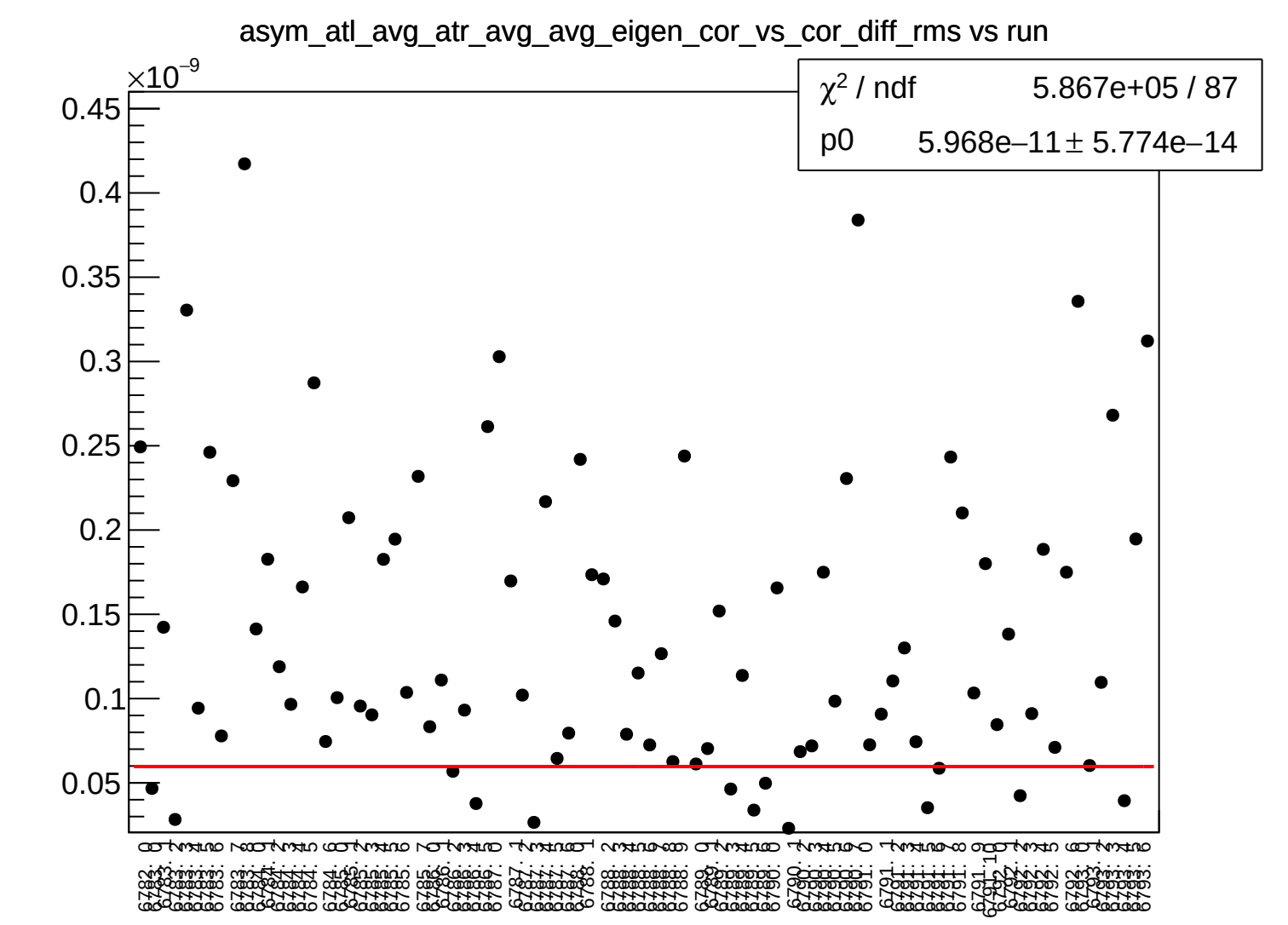

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.93 / 87
p0 −0.3885 ± 0.3082
pull
Entries 88
Mean 1148
Std Dev 0

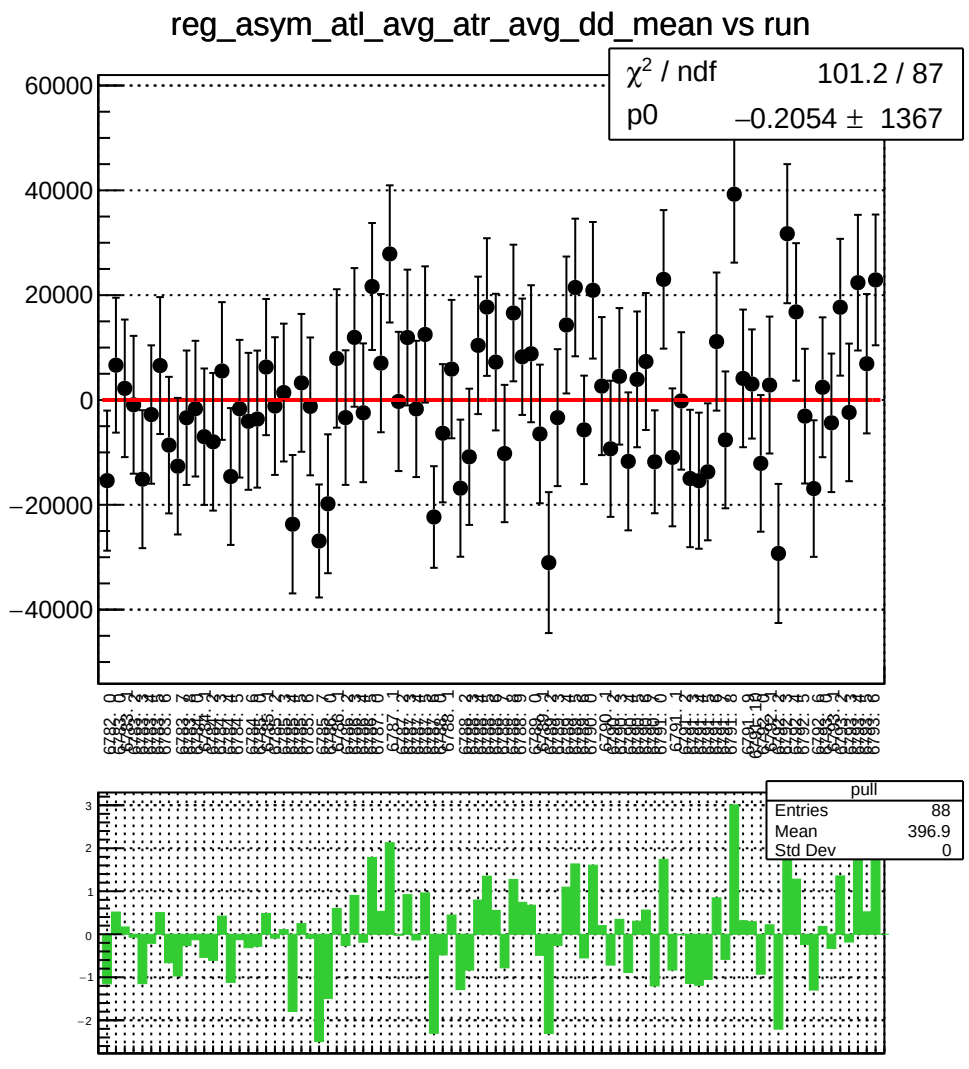

pull1D
Entries 88
Mean −0.003208
Std Dev 0.8786

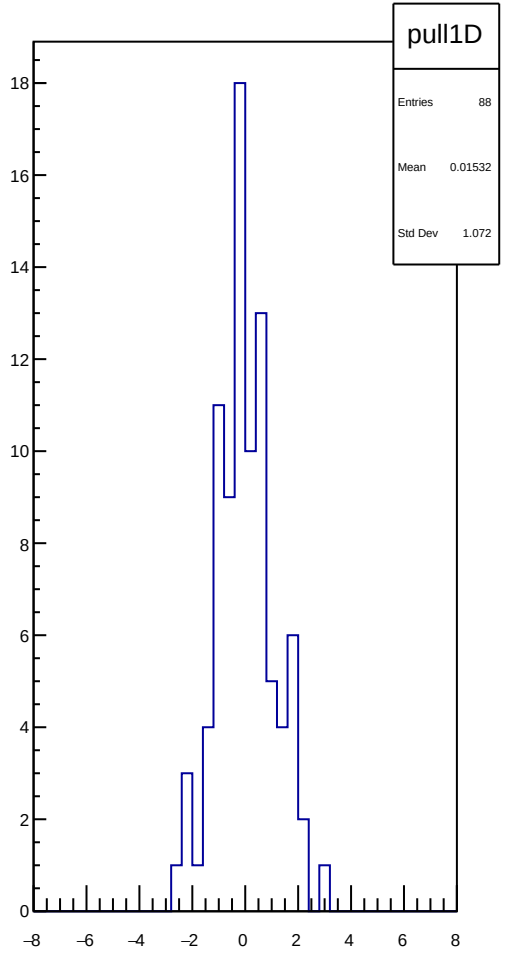

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.297e+04 / 87
p0 279.2 ± 0.2179
400
350
300
250
200

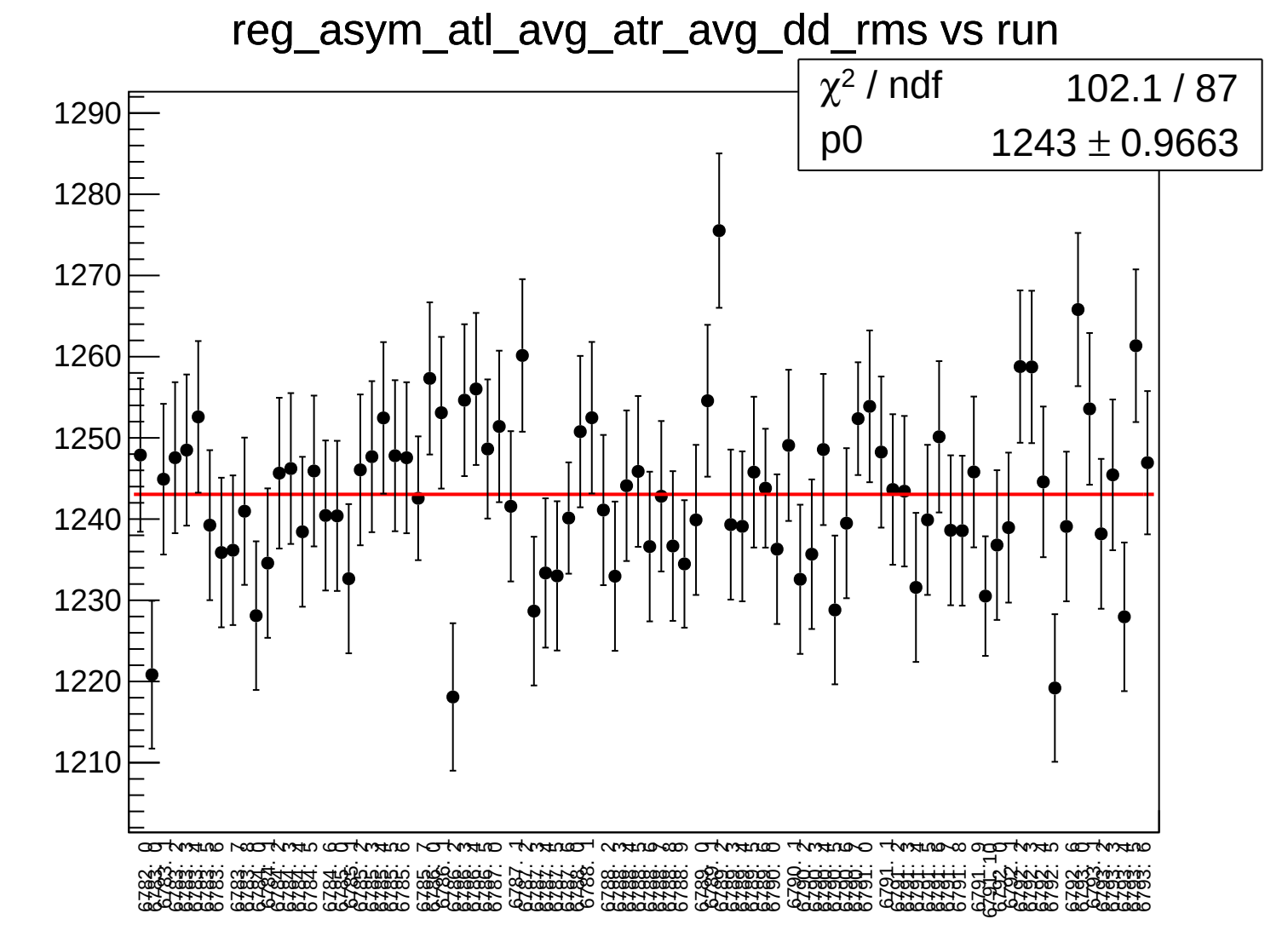

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.82 / 87
p0 −4.3e−14 ± 8.166e−14
pull
Entries 88
Mean −55.04
Std Dev 0

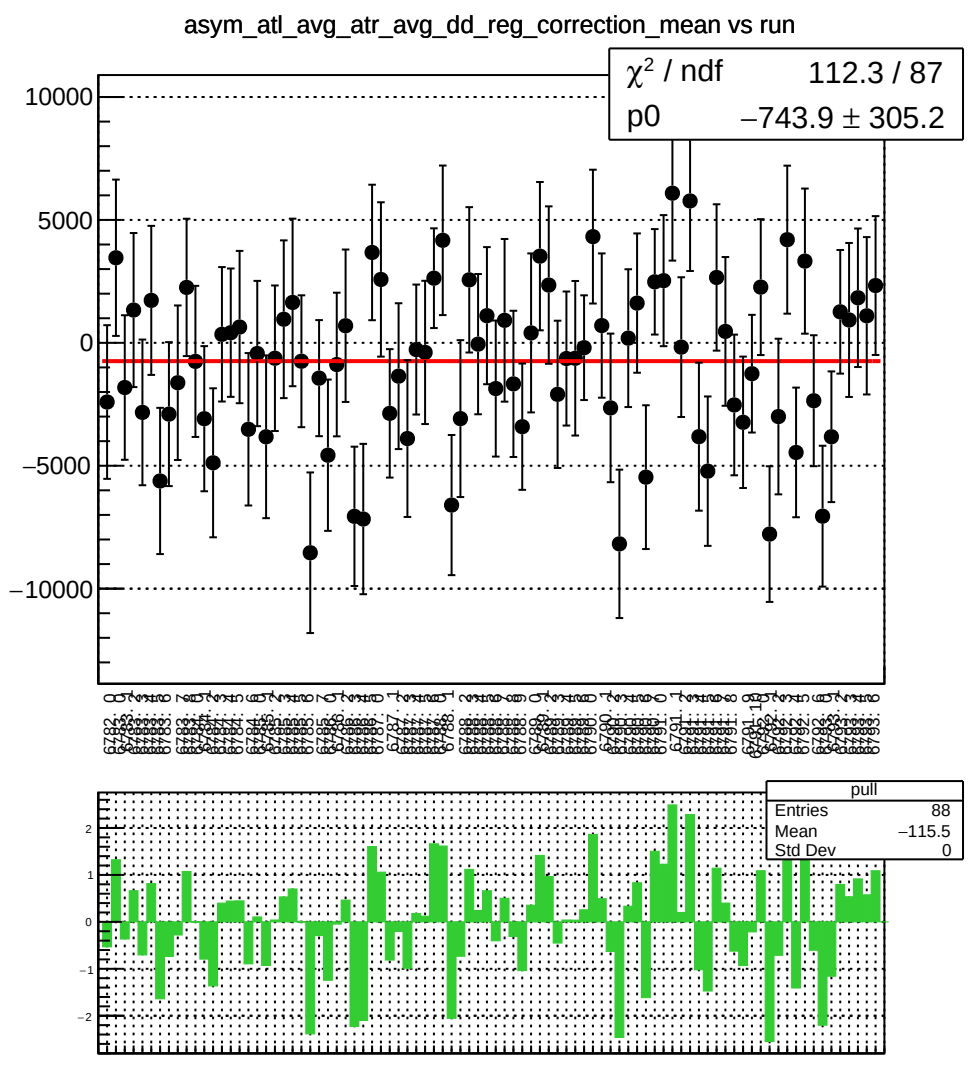

pull1D
Entries 88
Mean −0.04145
Std Dev 1.043

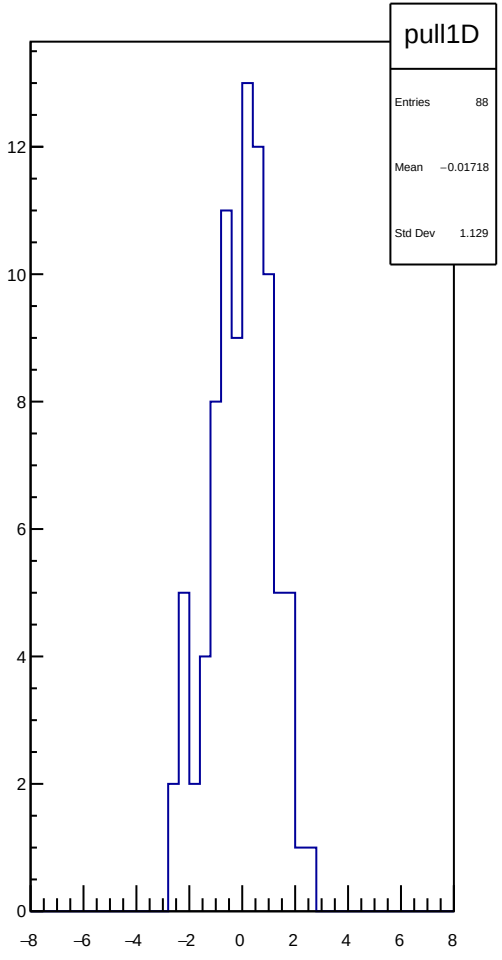

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.867e+05 / 87
p0 5.968e−11 ± 5.774e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

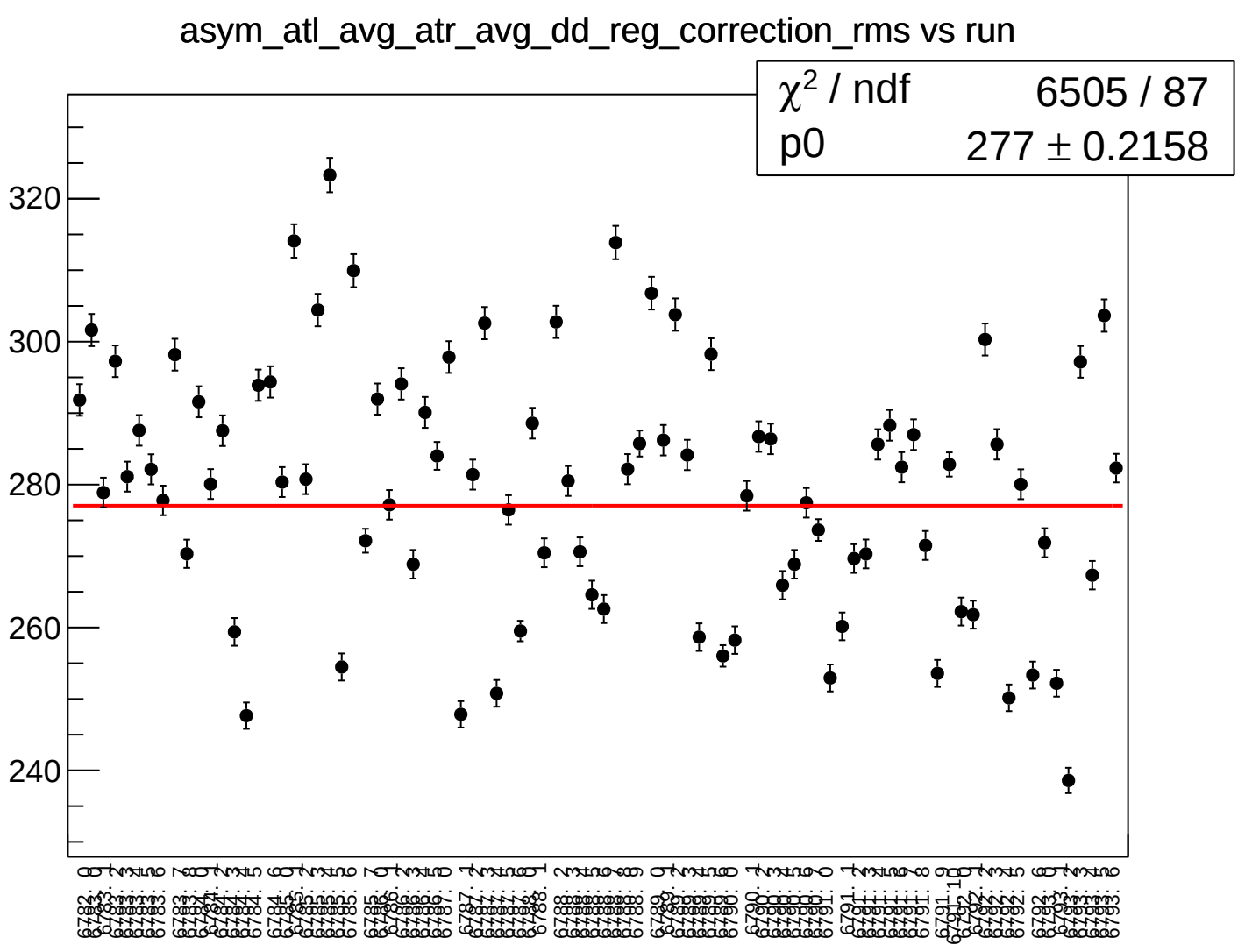

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.2 / 87
p0 −0.2054 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 396.9
Std Dev 0
3
2
1
0
−1
−2

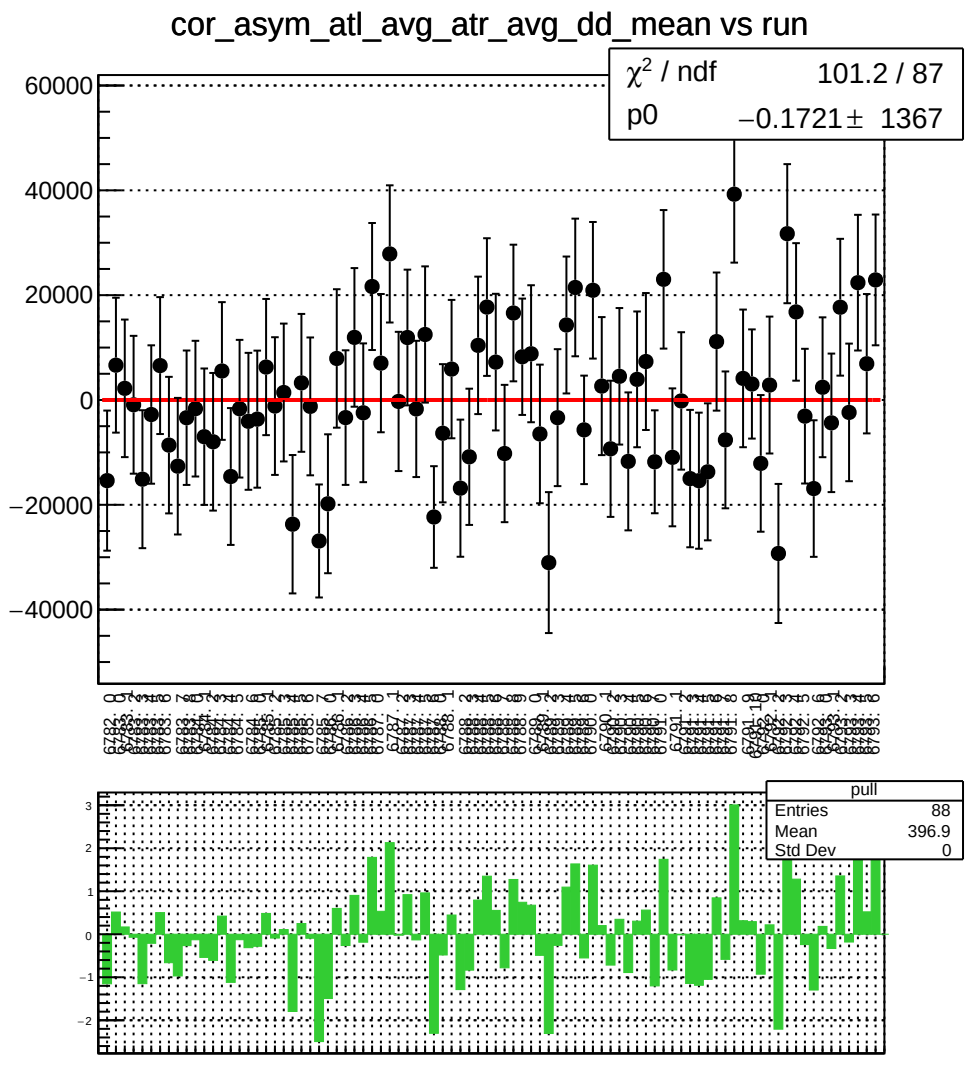

pull1D
Entries 88
Mean 0.01532
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

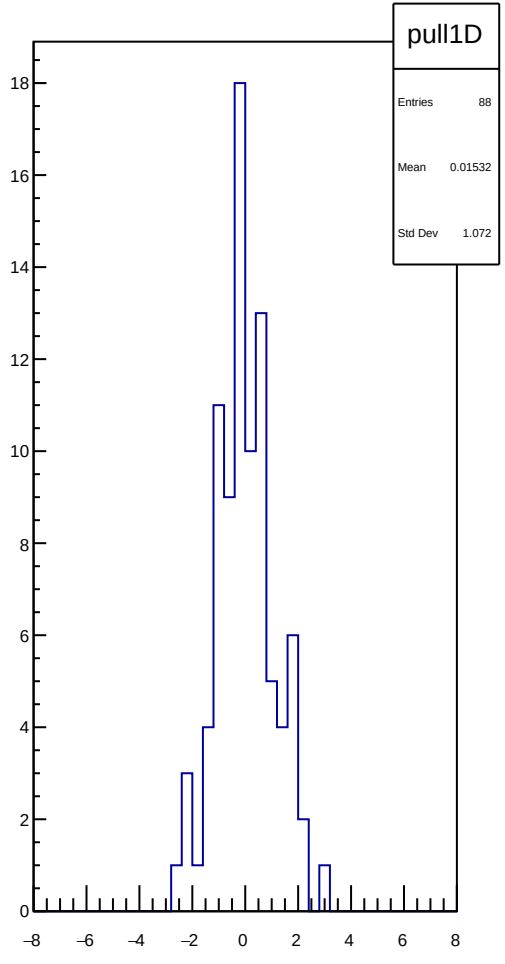

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 102.1 / 87
p0 1243 ± 0.9663
1290
1280
1270
1260
1250
1240
1230
1220
1210

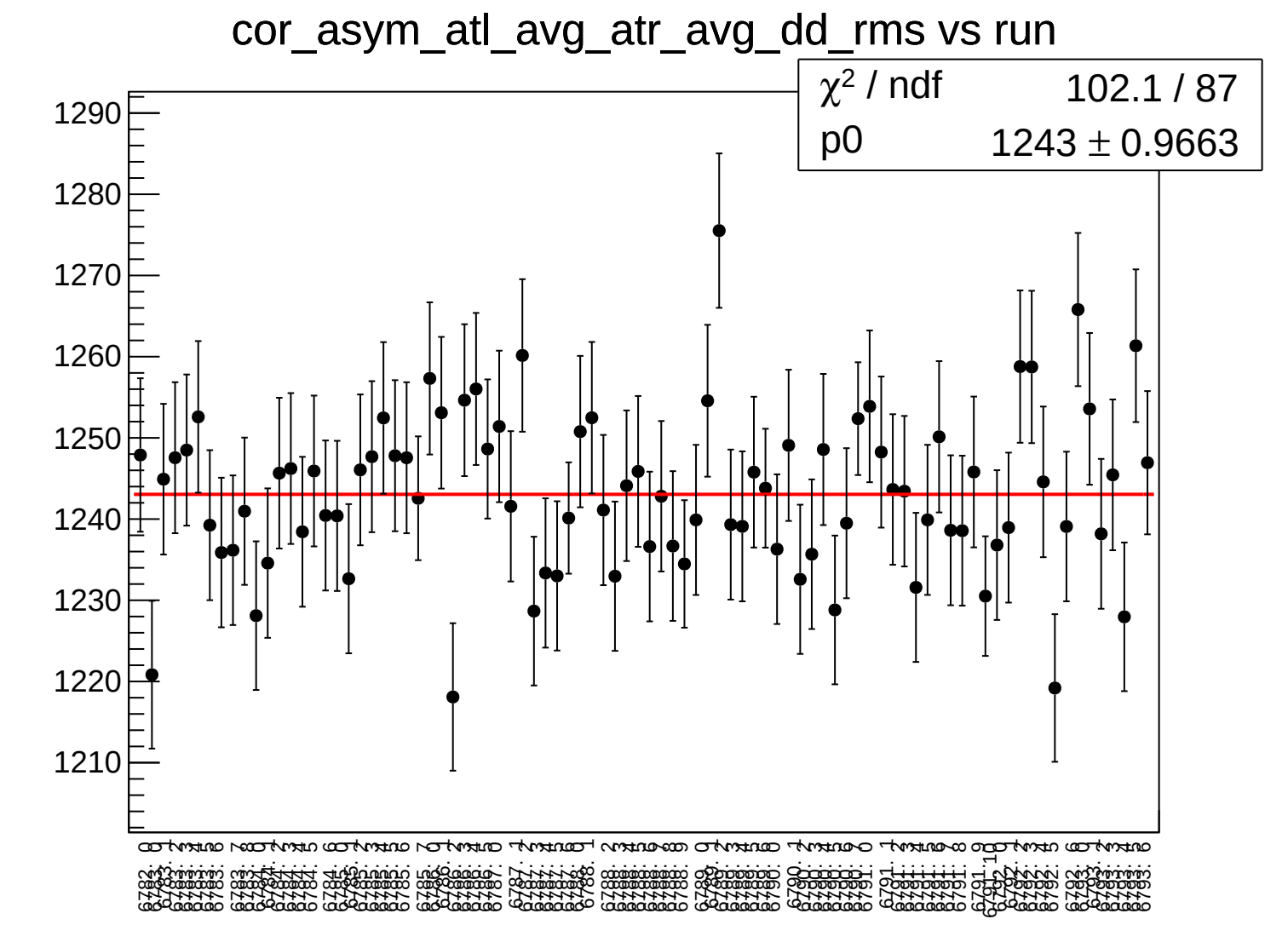

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 112.3 / 87
p0 −743.9 ± 305.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −115.5
Std Dev 0
2
1
0
−1
−2

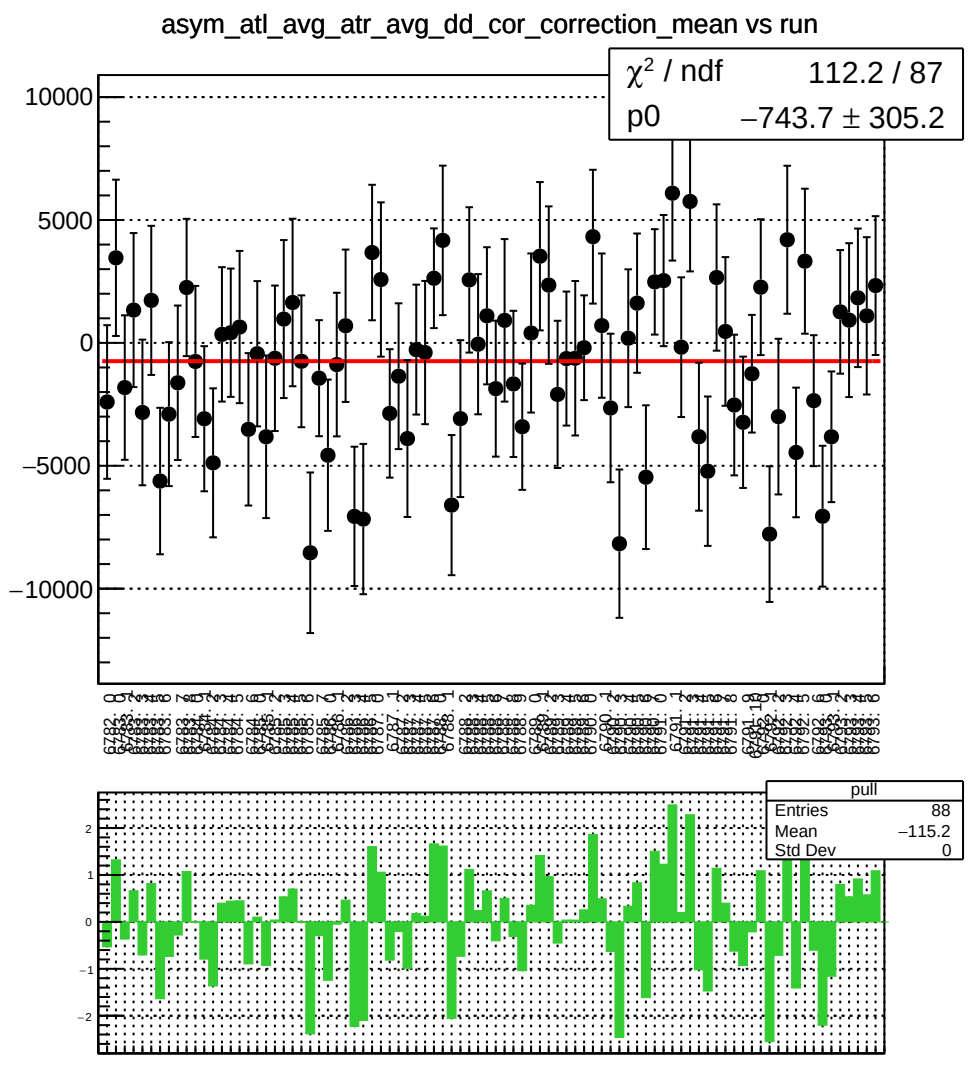

pull1D
Entries 88
Mean −0.01718
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

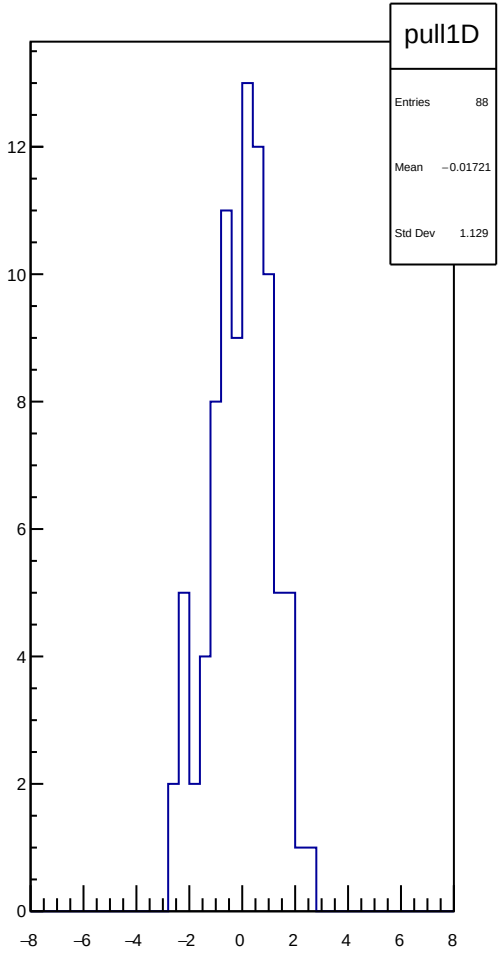

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 6505 / 87
p0 277 ± 0.2158
320
300
280
260
240

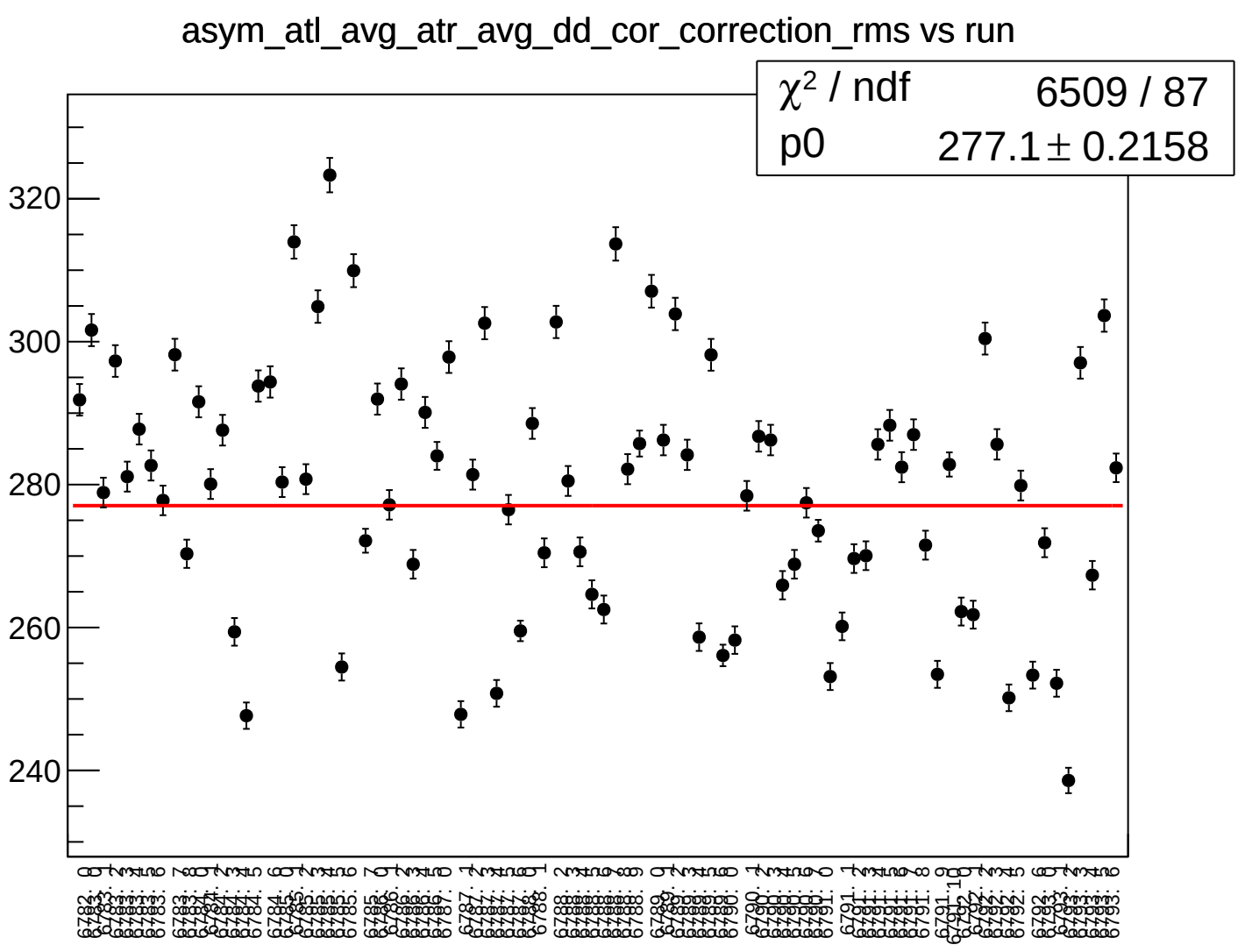

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.2 / 87
p0 −0.1721 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 396.9
Std Dev 0
3
2
1
0
−1
−2

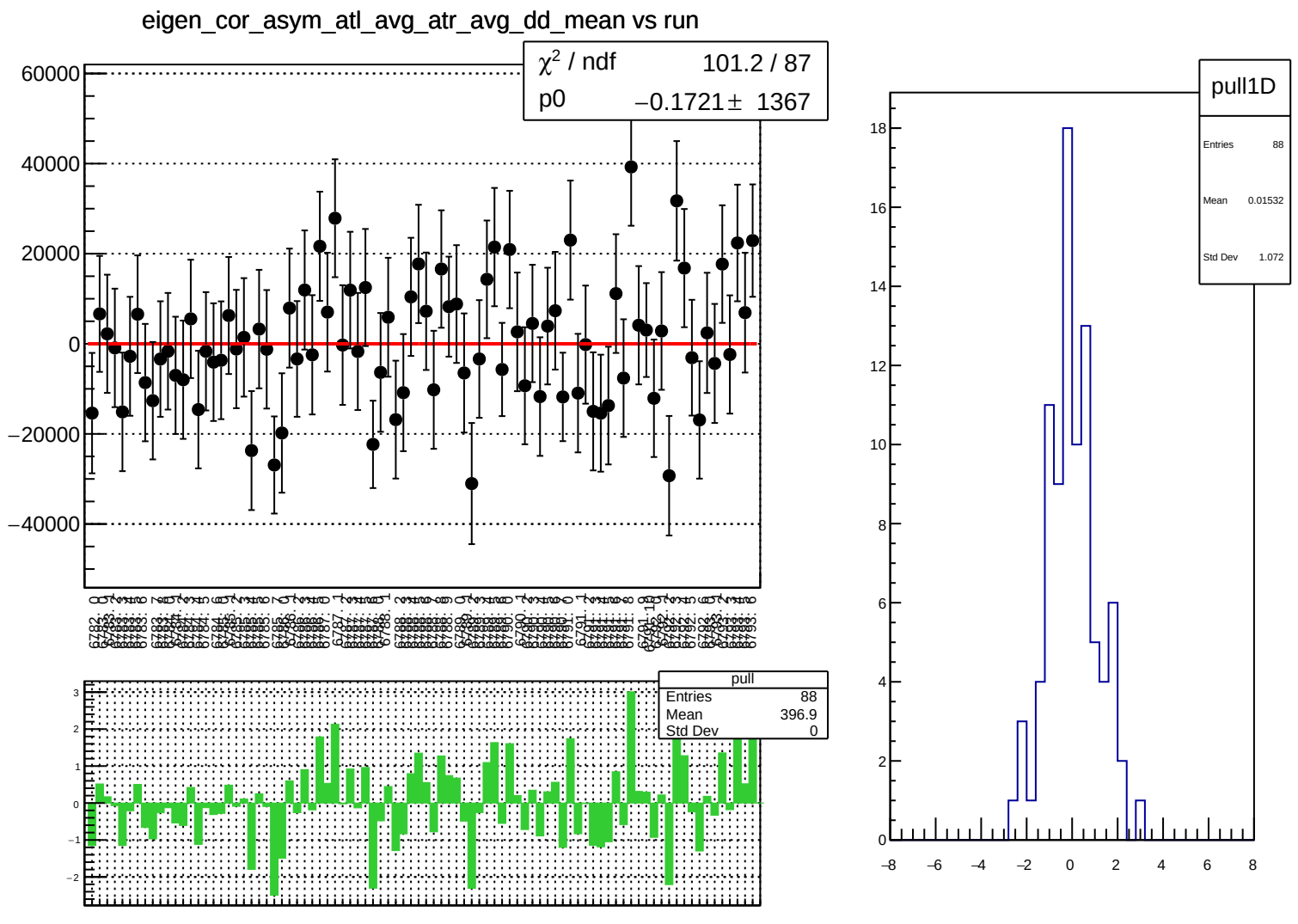

pull1D
Entries 88
Mean 0.01532
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

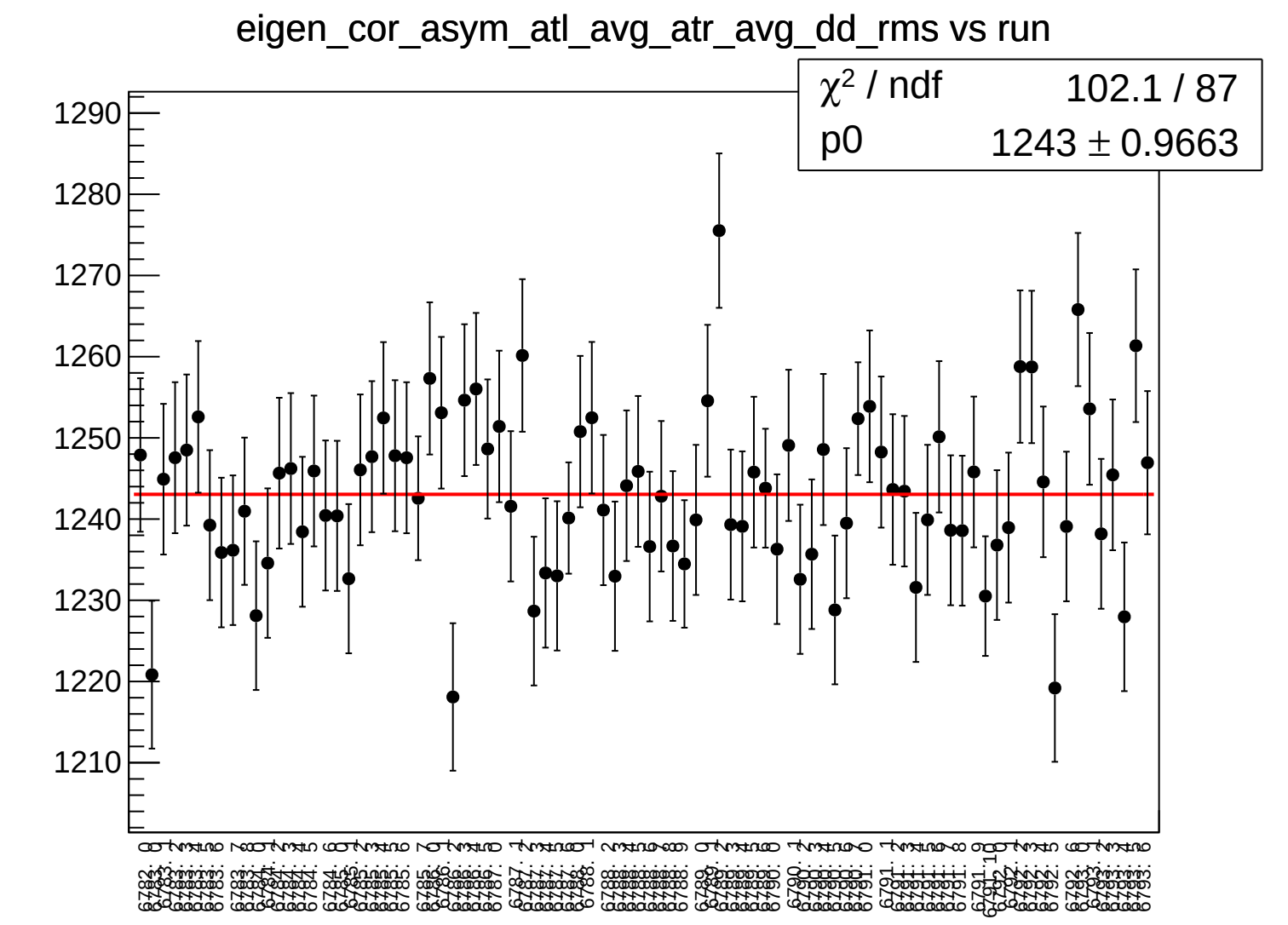

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 102.1 / 87
p0 1243 ± 0.9663
1290
1280
1270
1260
1250
1240
1230
1220
1210

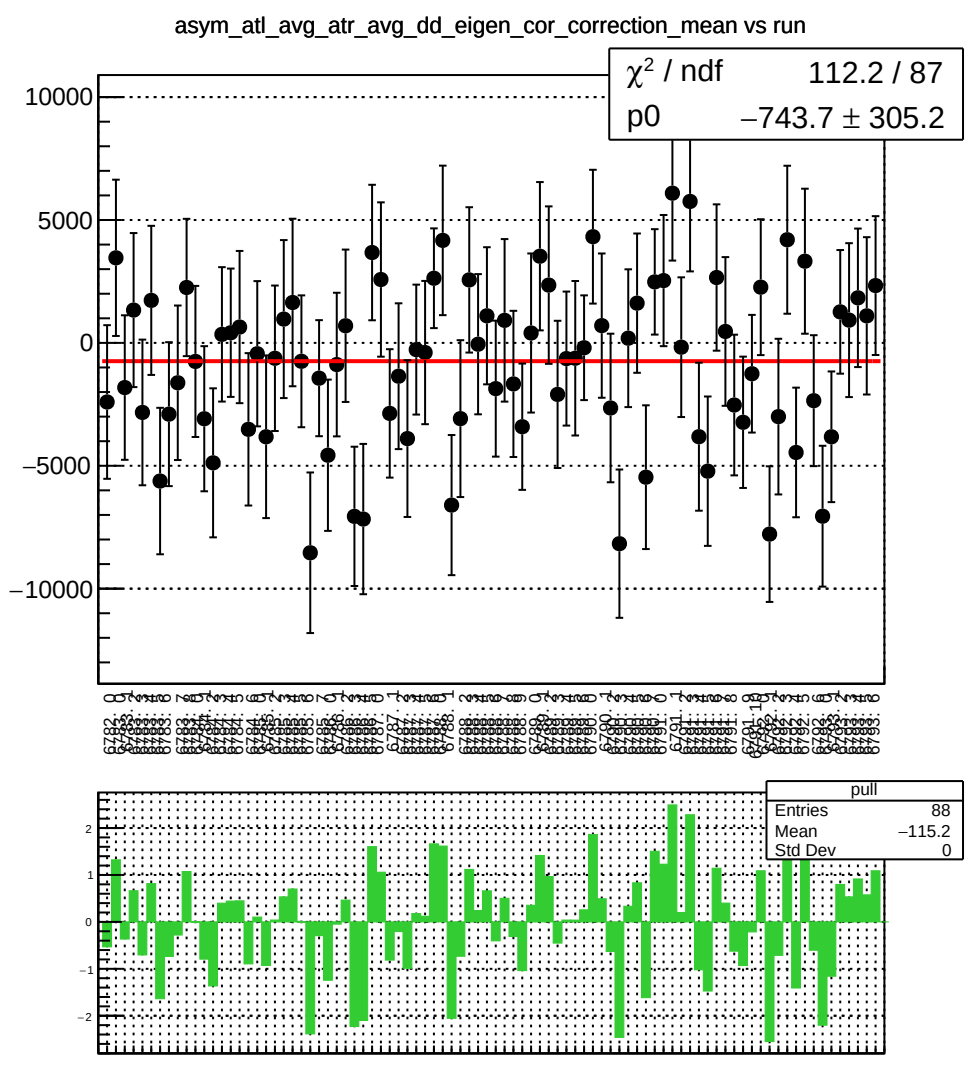

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 112.2 / 87
p0 −743.7 ± 305.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −115.2
Std Dev 0
2
1
0
−1
−2

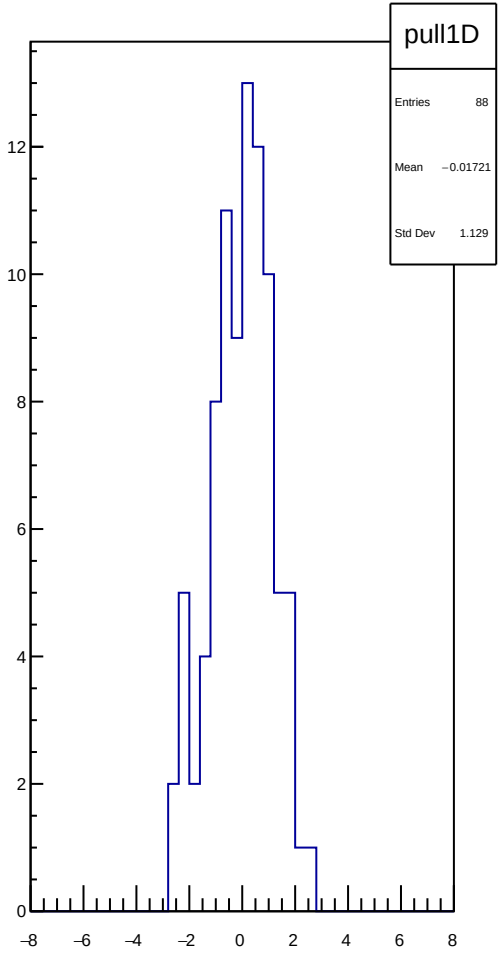

pull1D
Entries 88
Mean −0.01721
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

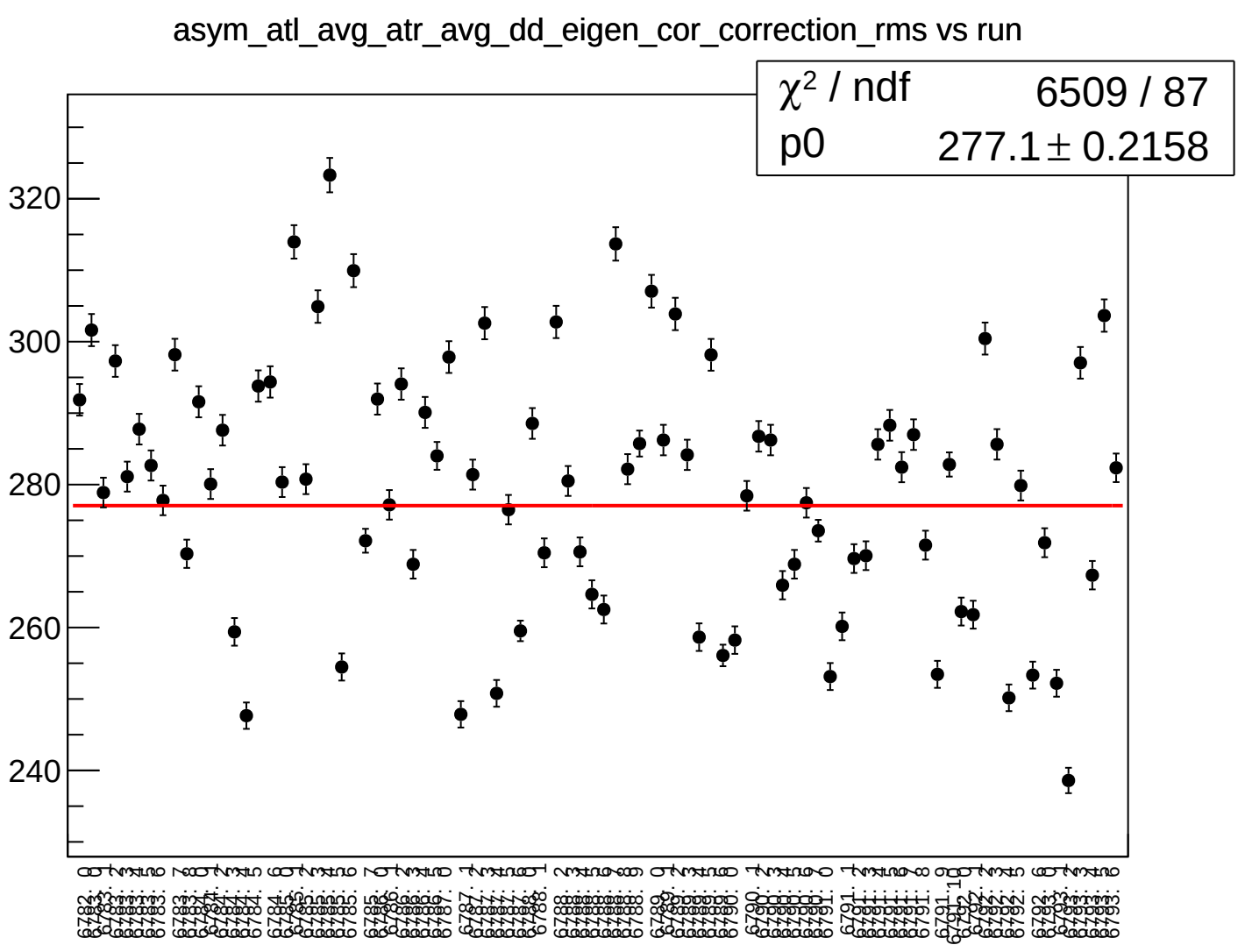

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 6509 / 87
p0 277.1 ± 0.2158
320
300
280
260
240

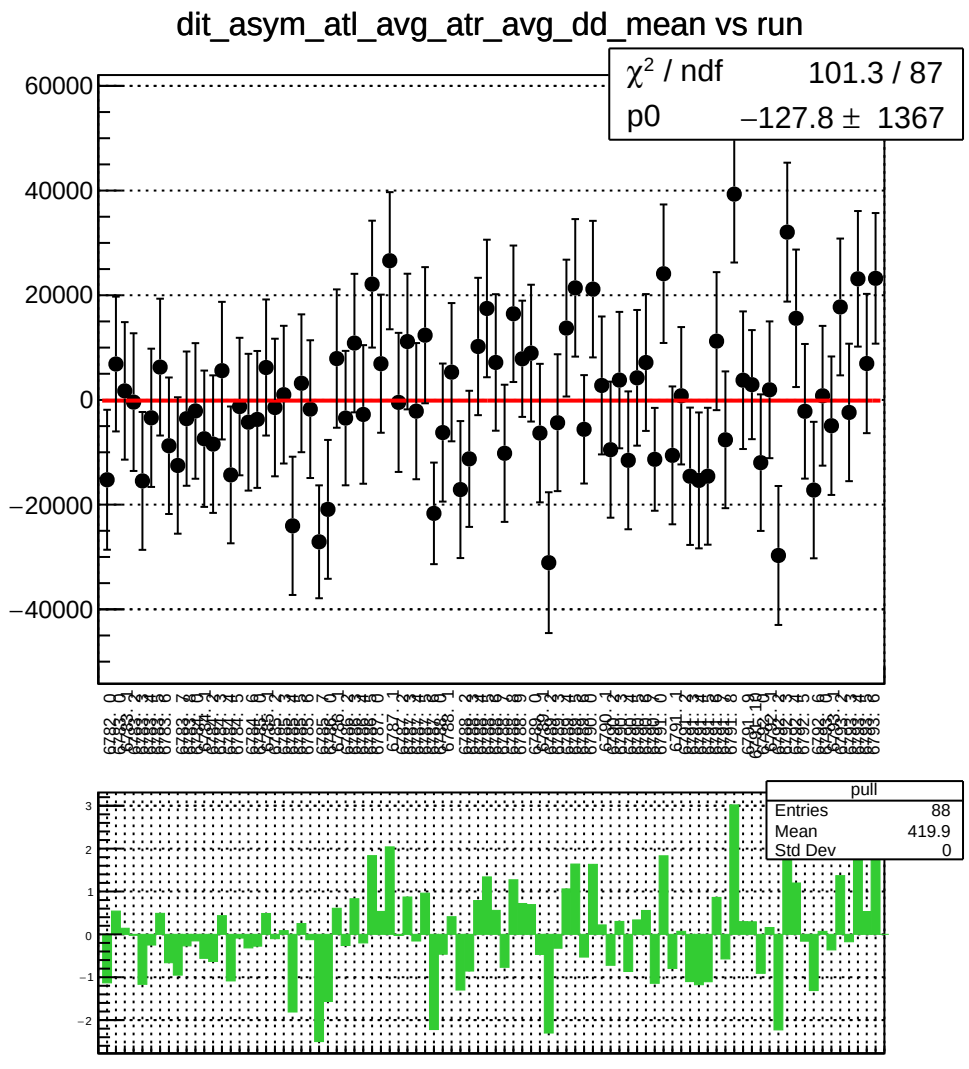

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.2 / 87
p0 −0.1721 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 396.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01532
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

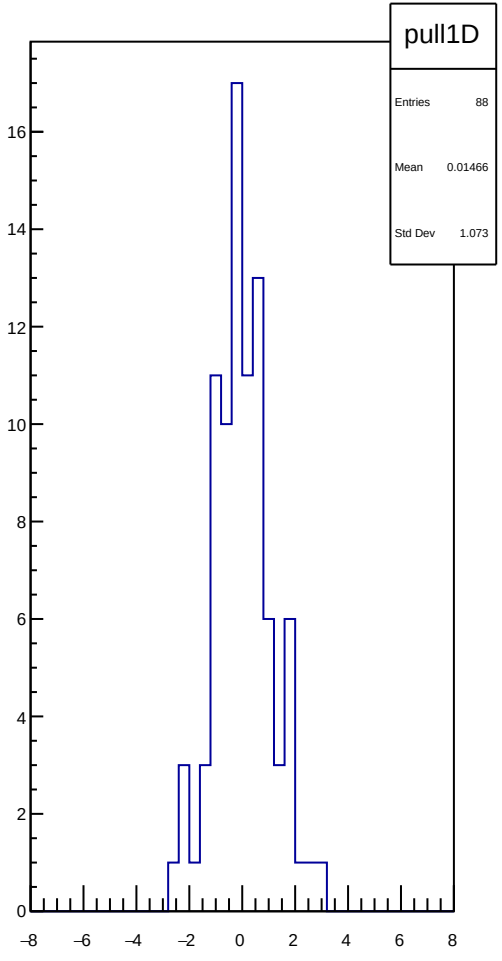

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 102.1 / 87
p0 1243 ± 0.9663
1290
1280
1270
1260
1250
1240
1230
1220
1210

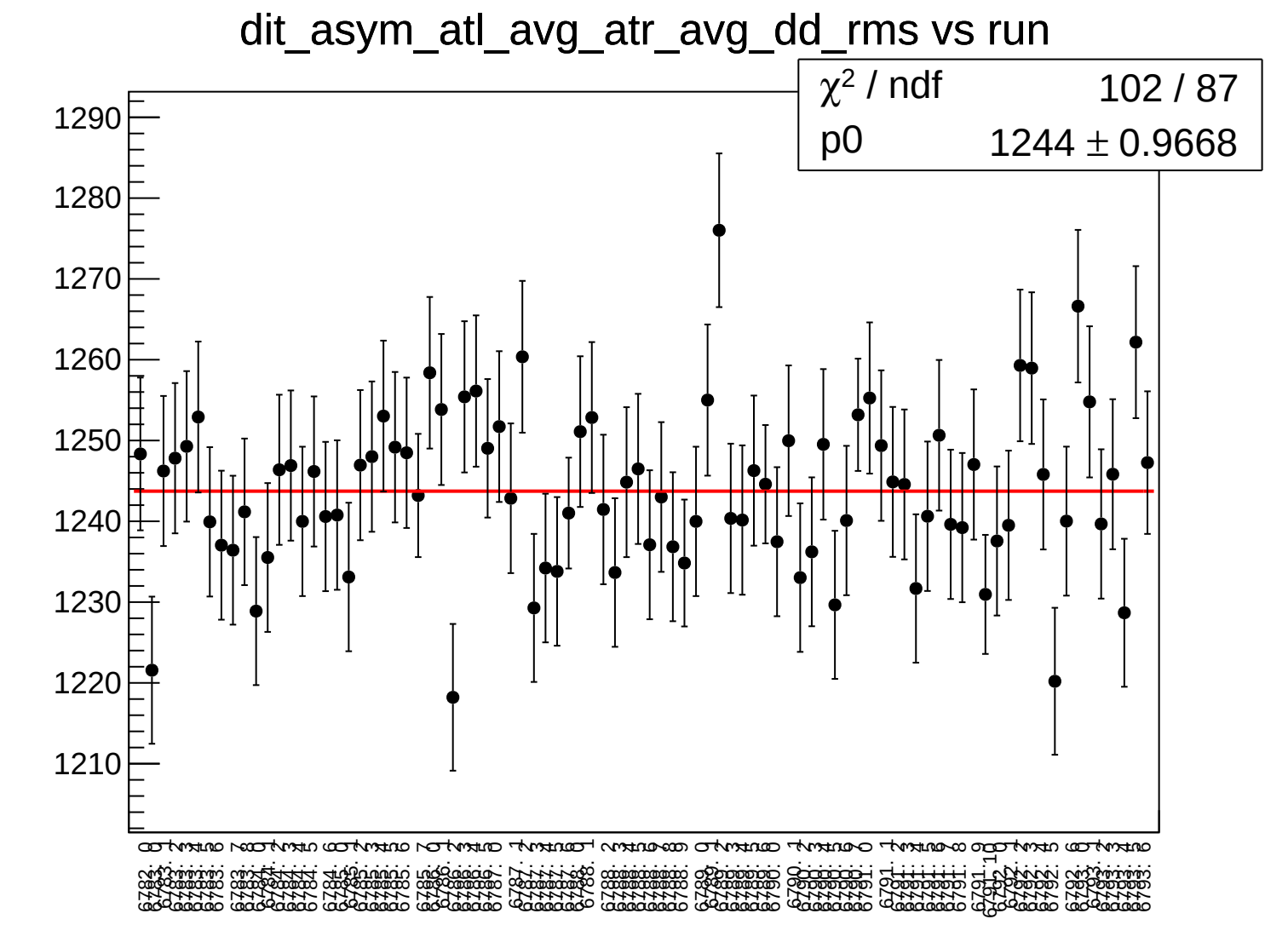

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.2 / 87
p0 −743.7 ± 305.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −115.2
Std Dev 0
2
1
0
−1
−2

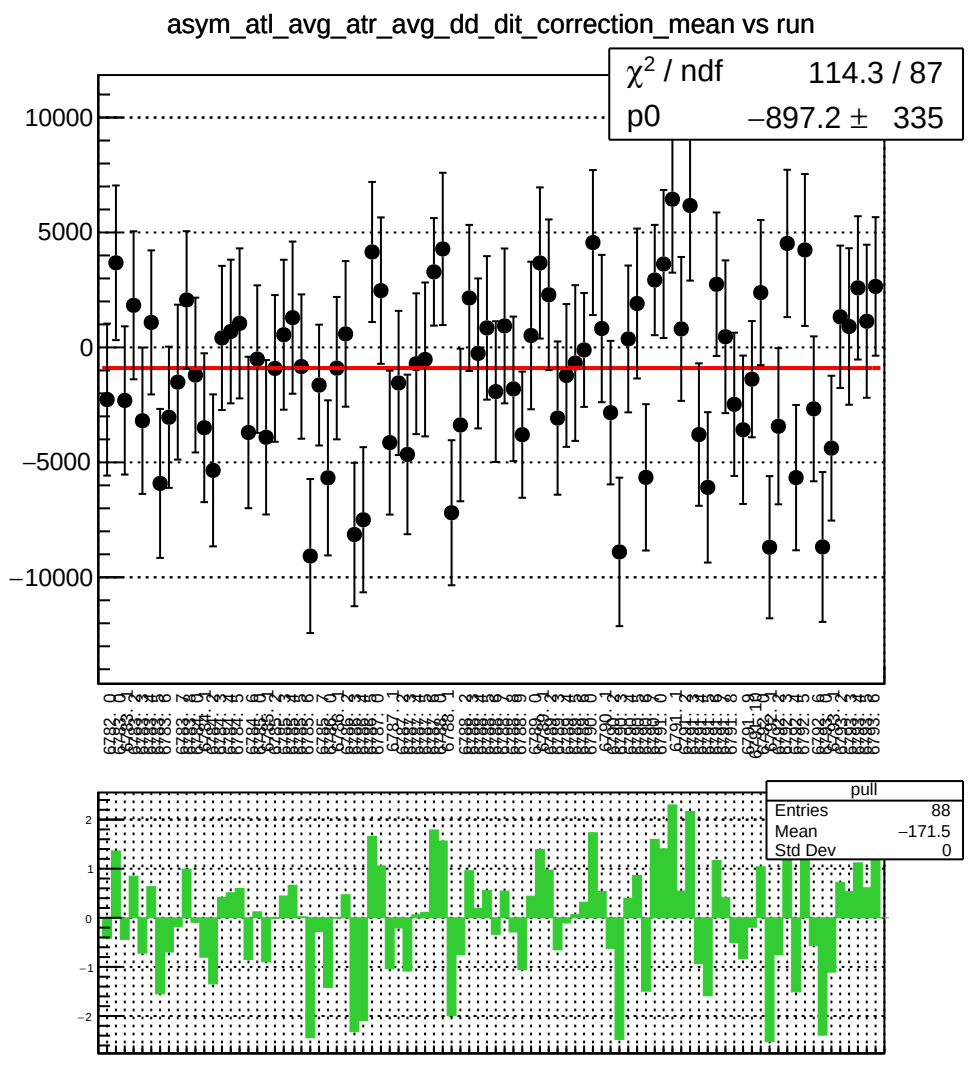

pull1D
Entries 88
Mean −0.01721
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

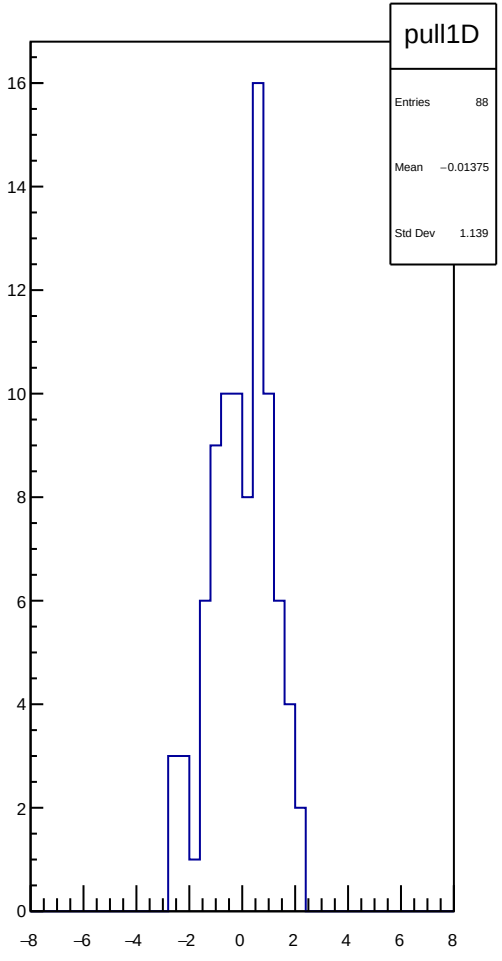

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6509 / 87
p0 277.1 ± 0.2158
320
300
280
260
240

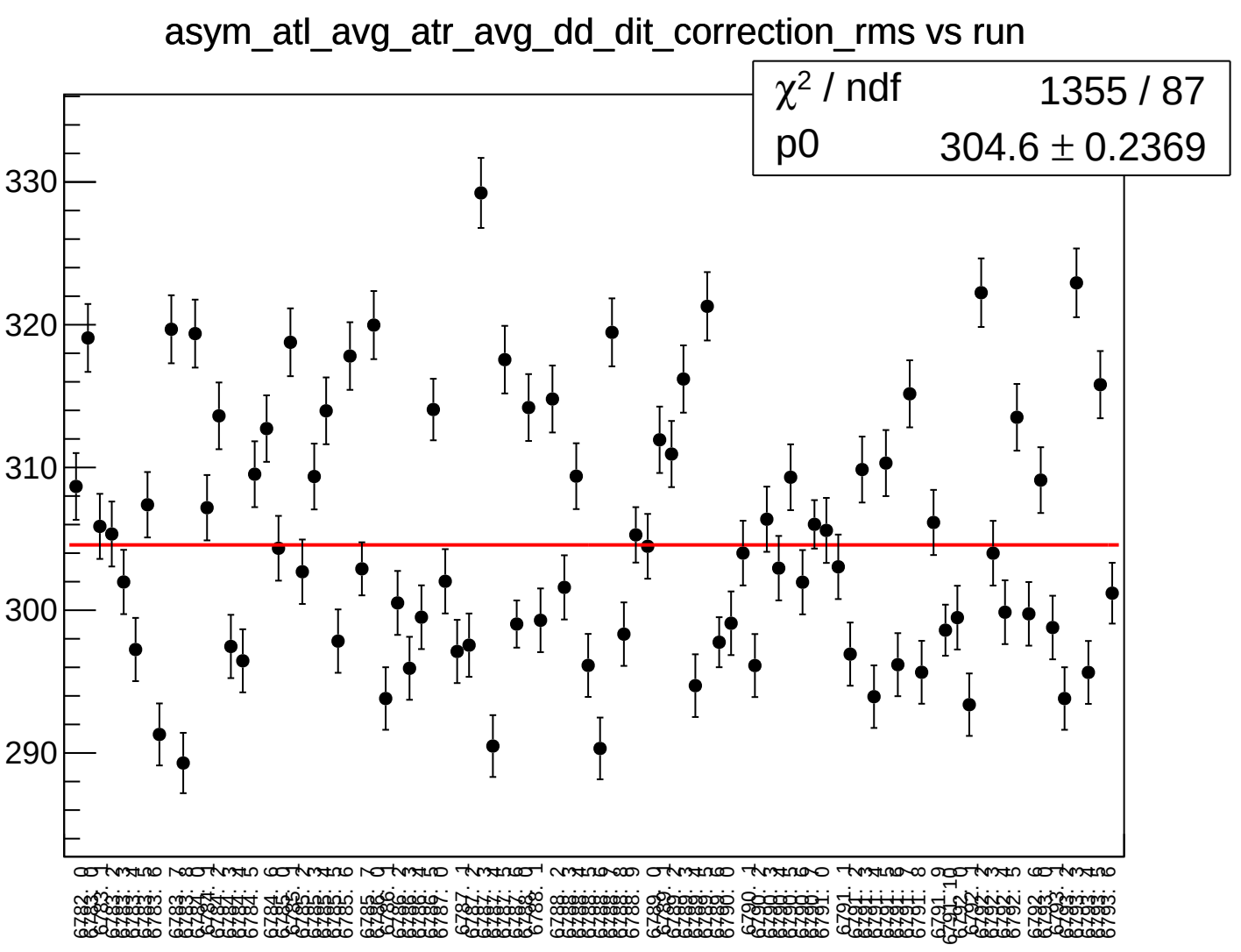

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.3 / 87
p0 −127.8 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 419.9
Std Dev 0
3
2
1
0
−1
−2

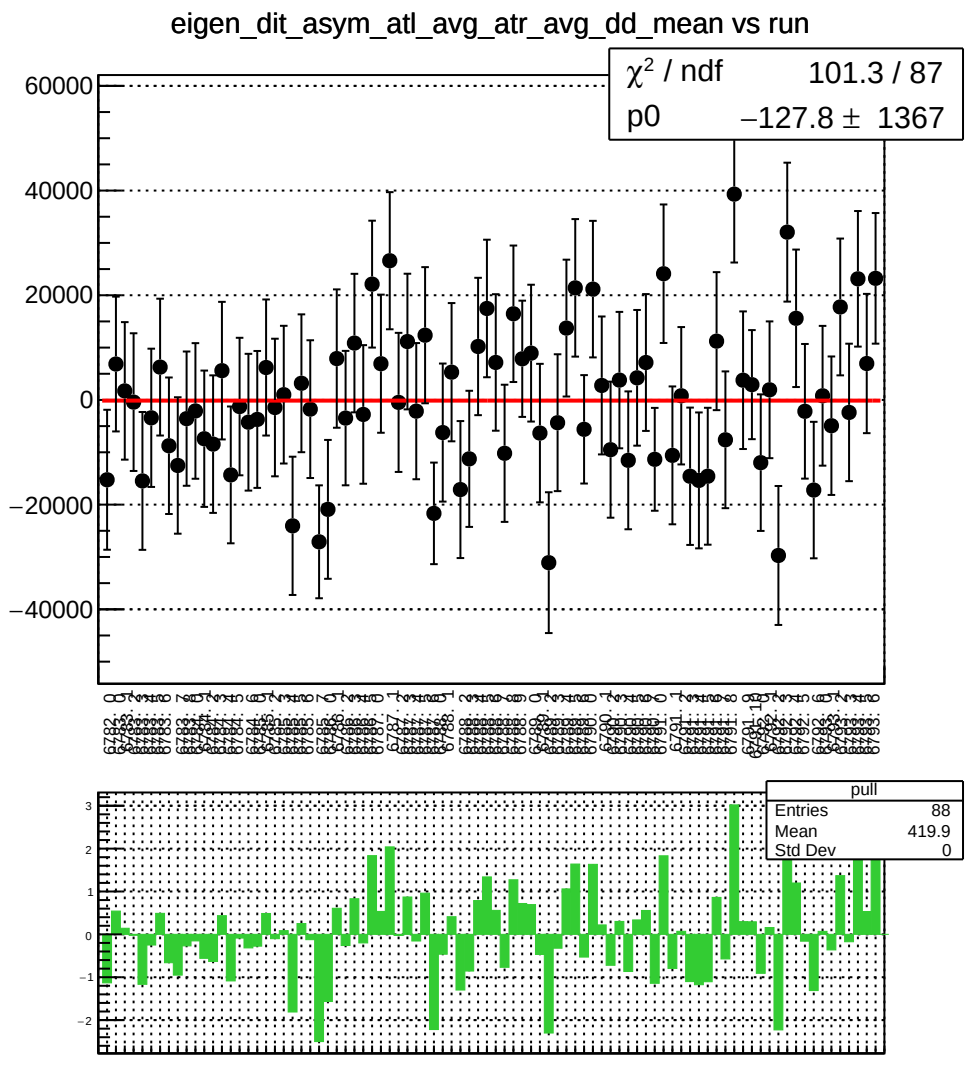

pull1D
Entries 88
Mean 0.01466
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

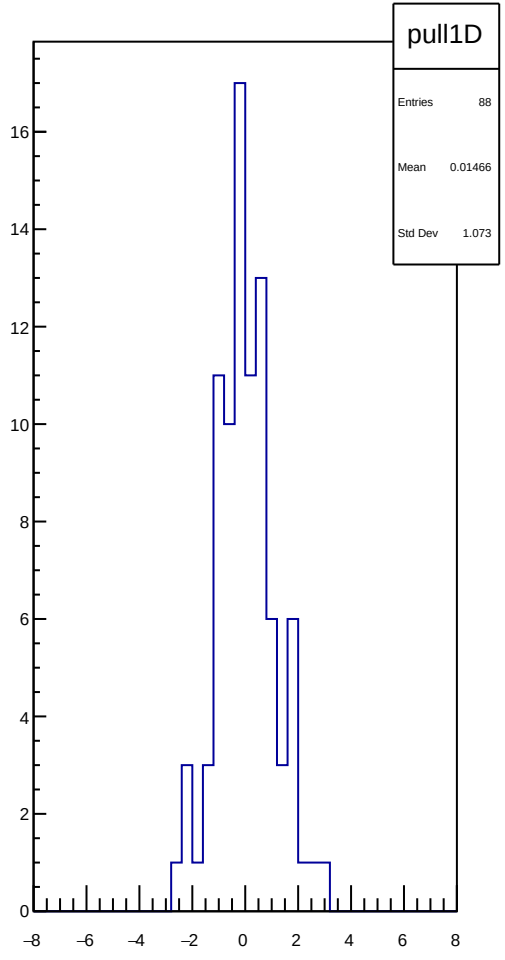

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 102 / 87
p0 1244 ± 0.9668
1290
1280
1270
1260
1250
1240
1230
1220
1210

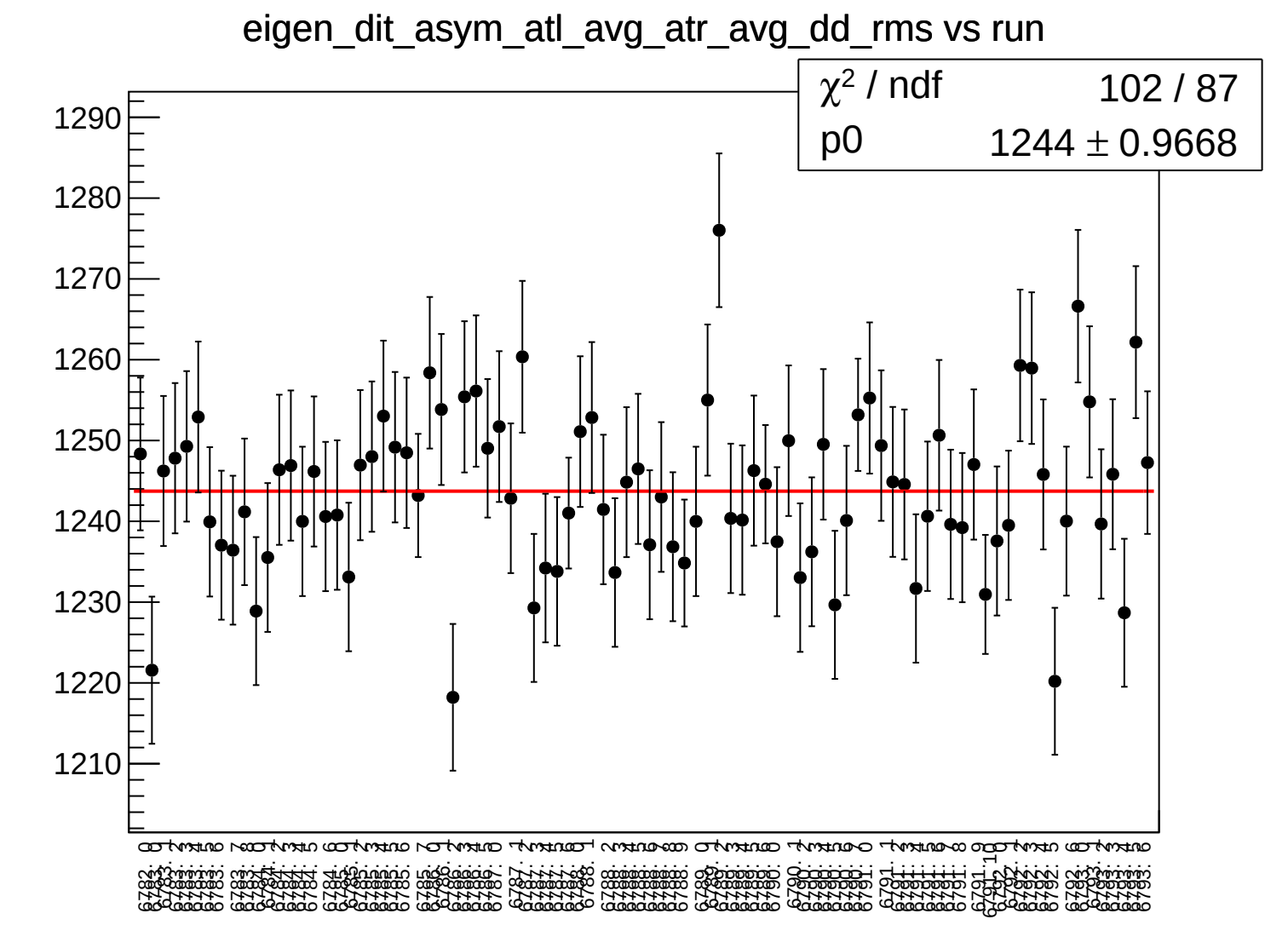

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 114.3 / 87
p0 −897.2 ± 335
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −171.5
Std Dev 0
2
1
0
−1
−2

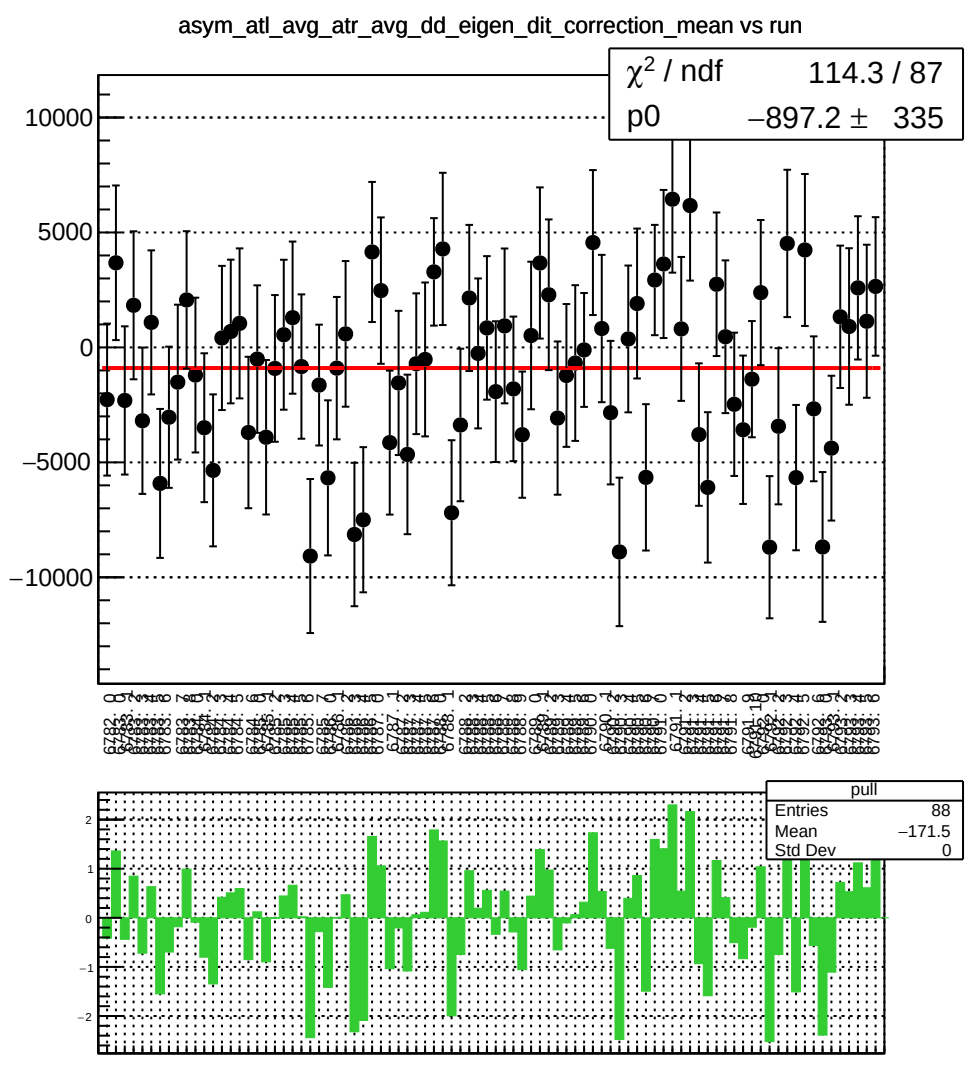

pull1D
Entries 88
Mean −0.01375
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

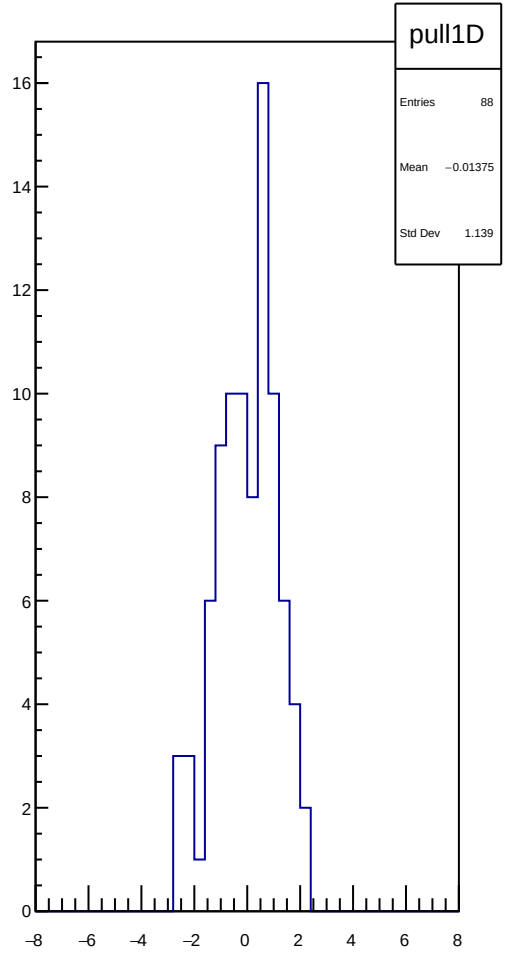

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1355 / 87
p0 304.6 ± 0.2369
330
320
310
300
290

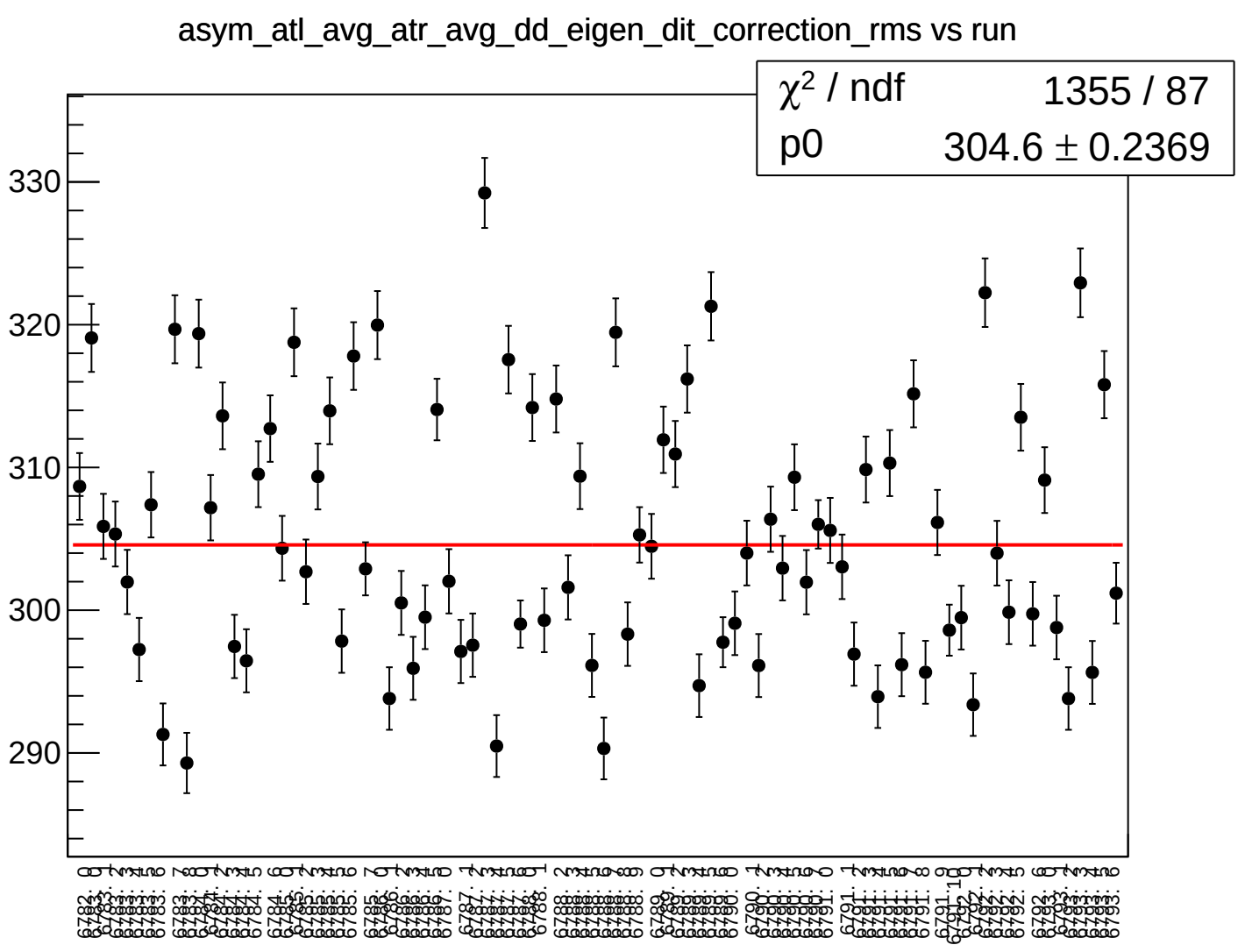

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.3 / 87
p0 −127.8 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 419.9
Std Dev 0
3
2
1
0
−1
−2

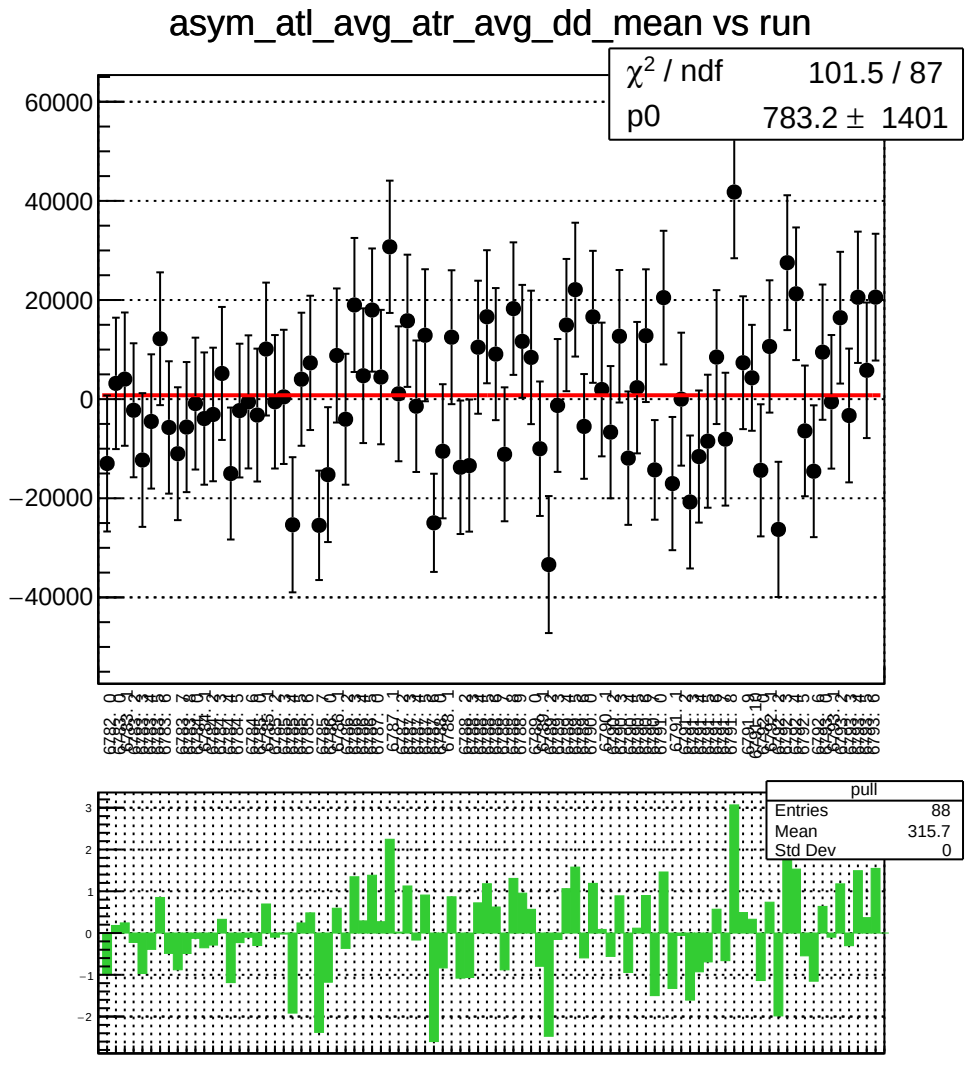

pull1D
Entries 88
Mean 0.01466
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

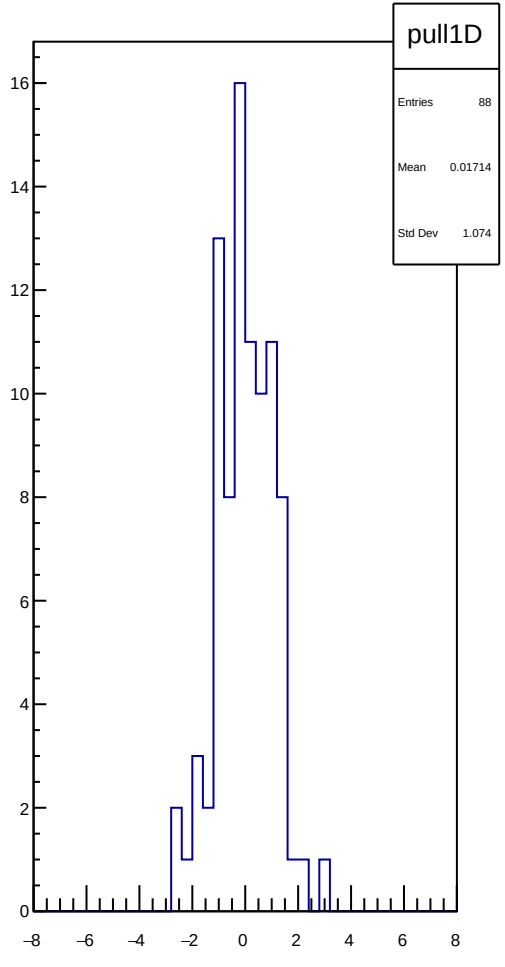

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 102 / 87
p0 1244 ± 0.9668
1290
1280
1270
1260
1250
1240
1230
1220
1210

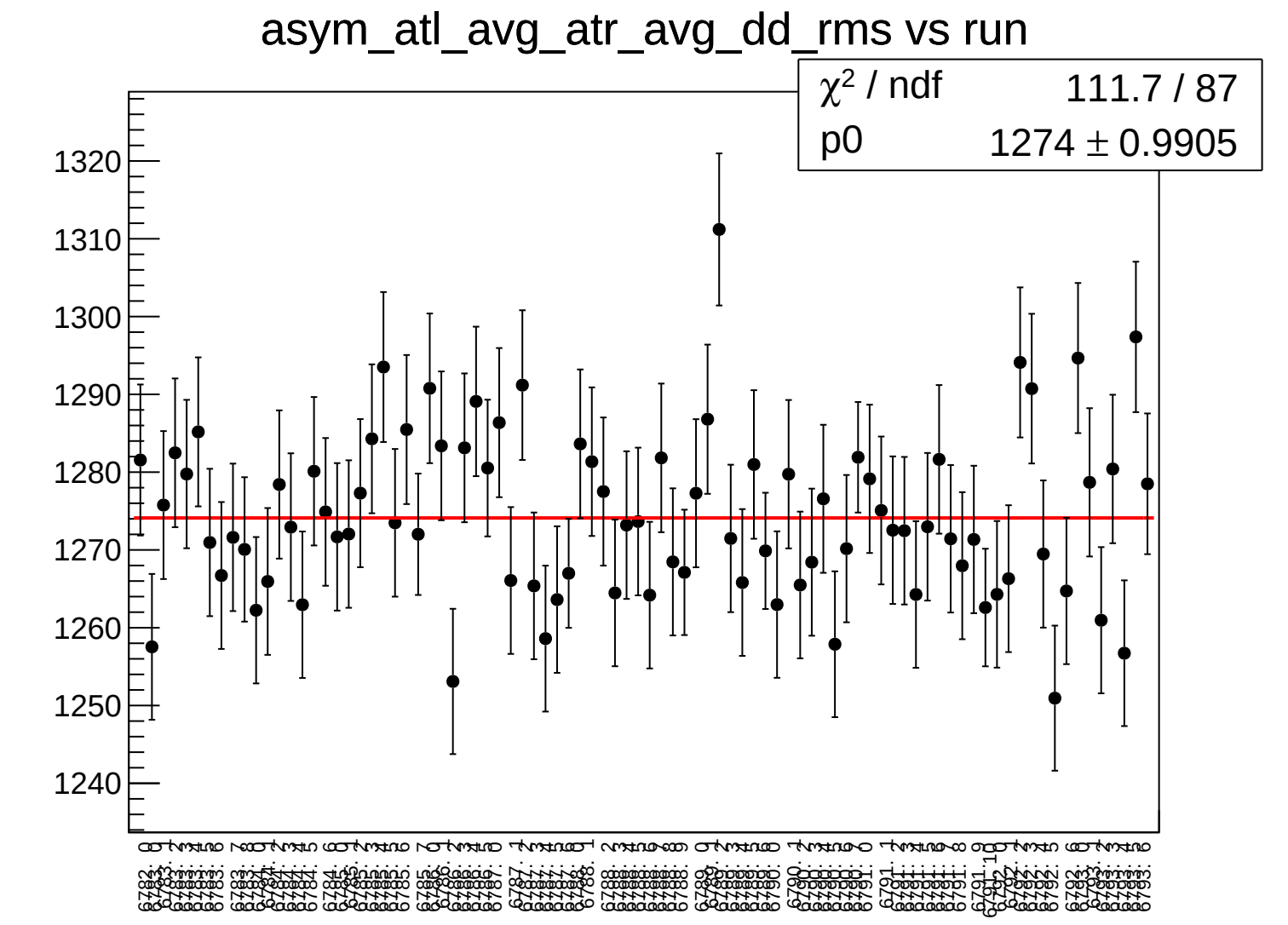

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.3 / 87
p0 −897.2 ± 335
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −171.5
Std Dev 0
2
1
0
−1
−2

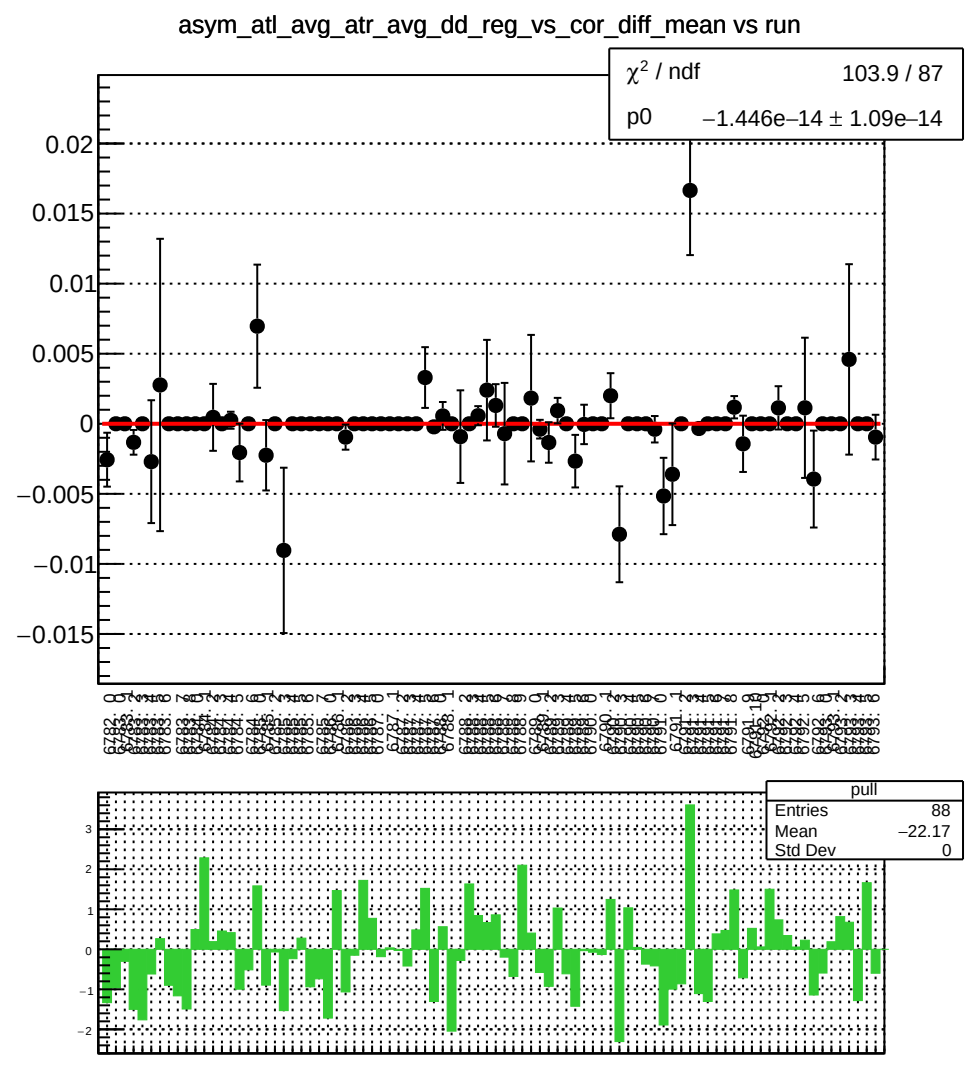

pull1D
Entries 88
Mean −0.01375
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

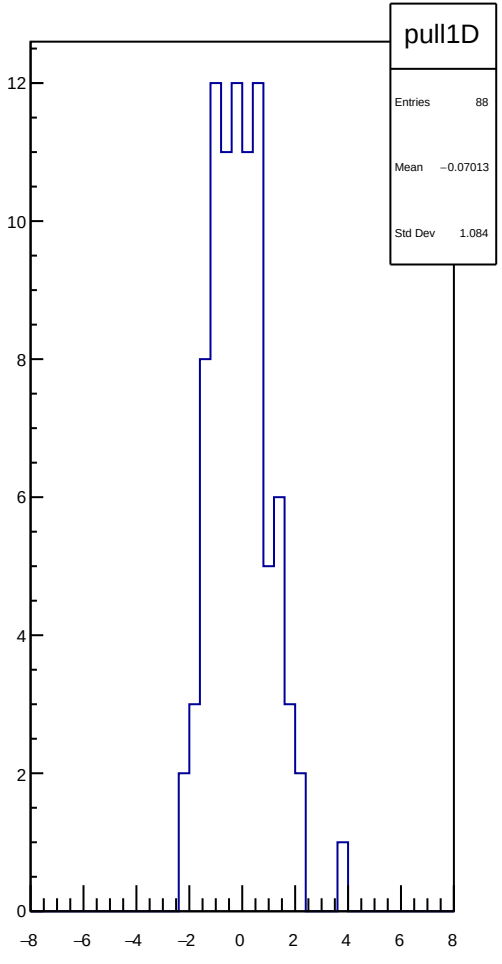

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1355 / 87
p0 304.6 ± 0.2369
330
320
310
300
290

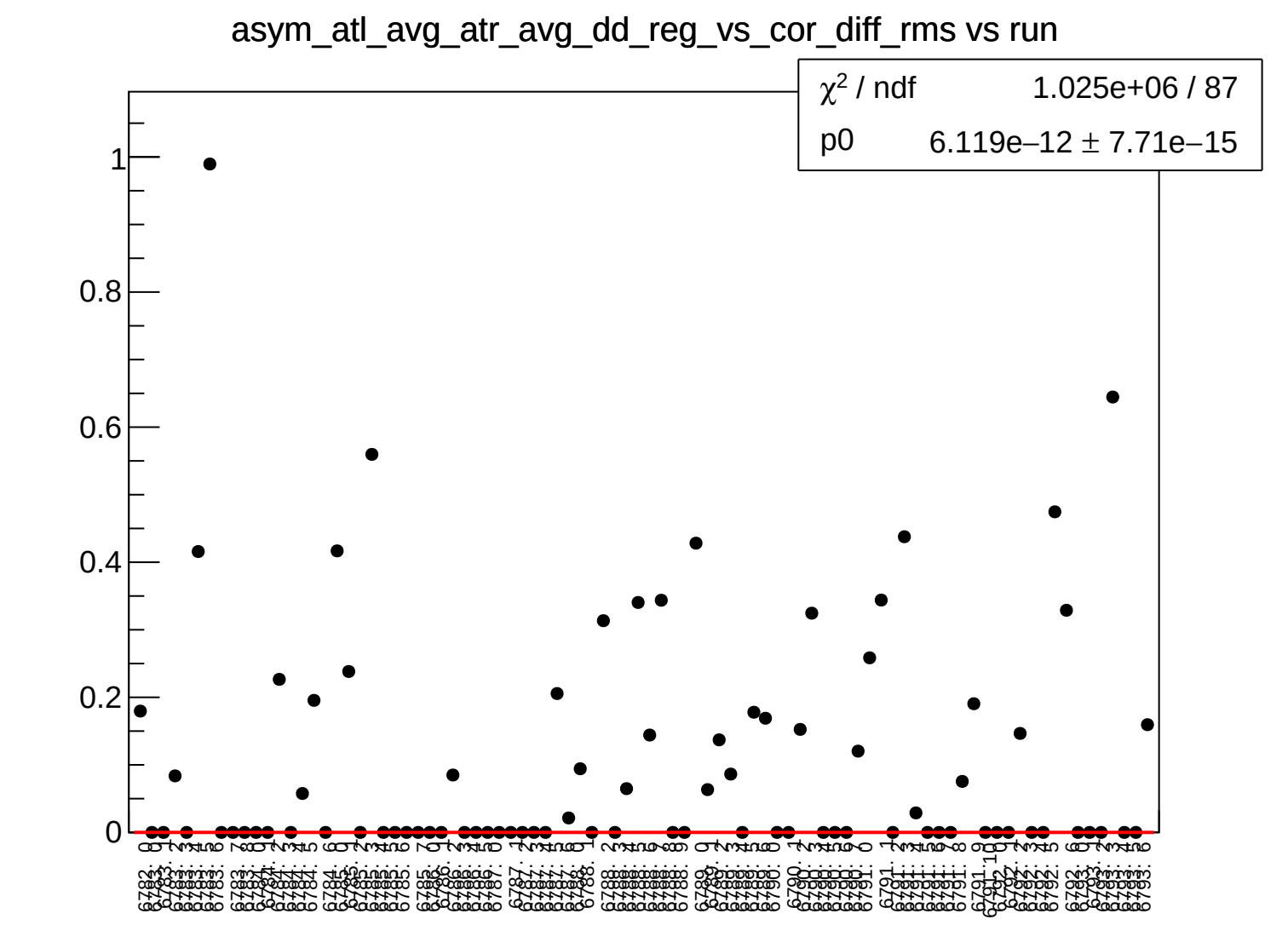

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.5 / 87
p0 783.2 ± 1401
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 315.7
Std Dev 0
3
2
1
0
−1
−2

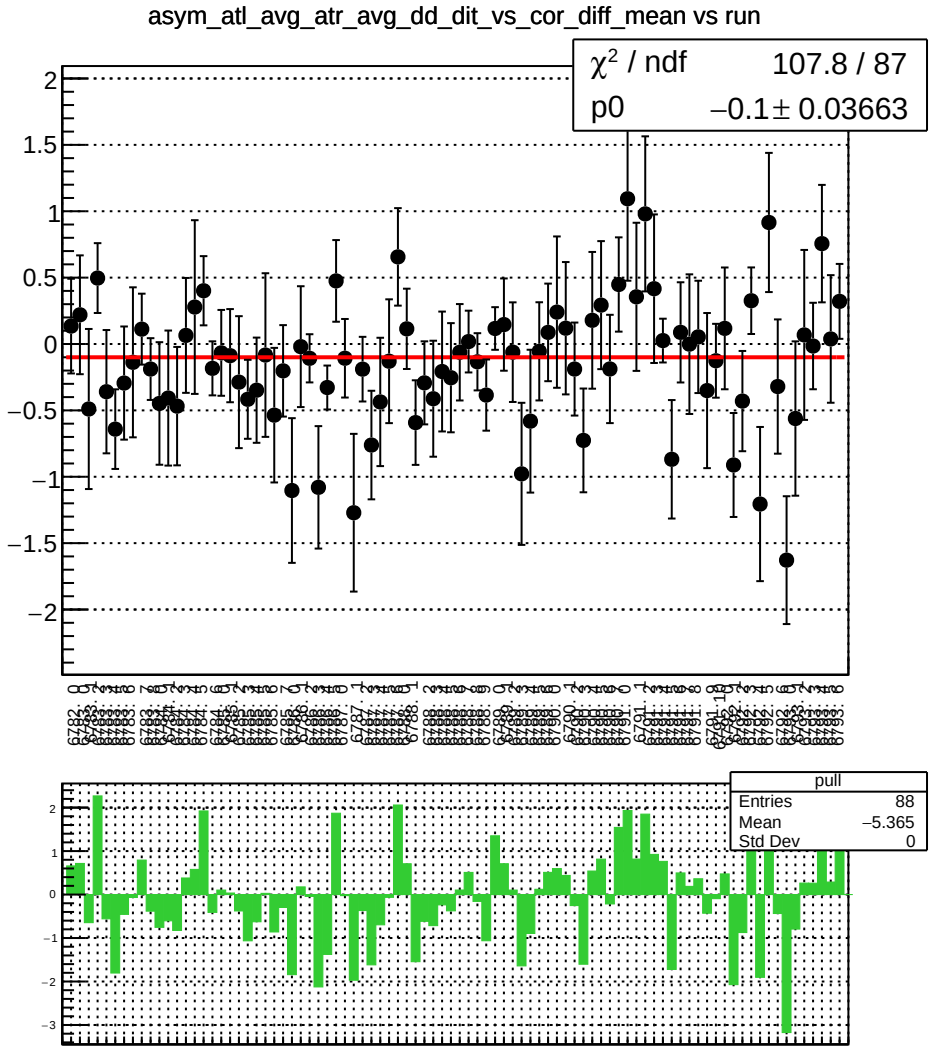

pull1D
Entries 88
Mean 0.01714
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

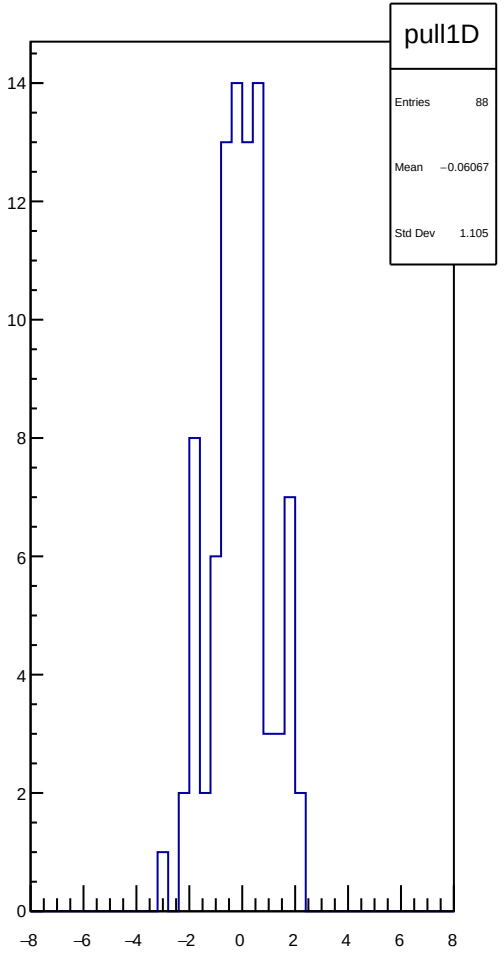

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111.7 / 87
p0 1274 ± 0.9905
1320
1310
1300
1290
1280
1270
1260
1250
1240

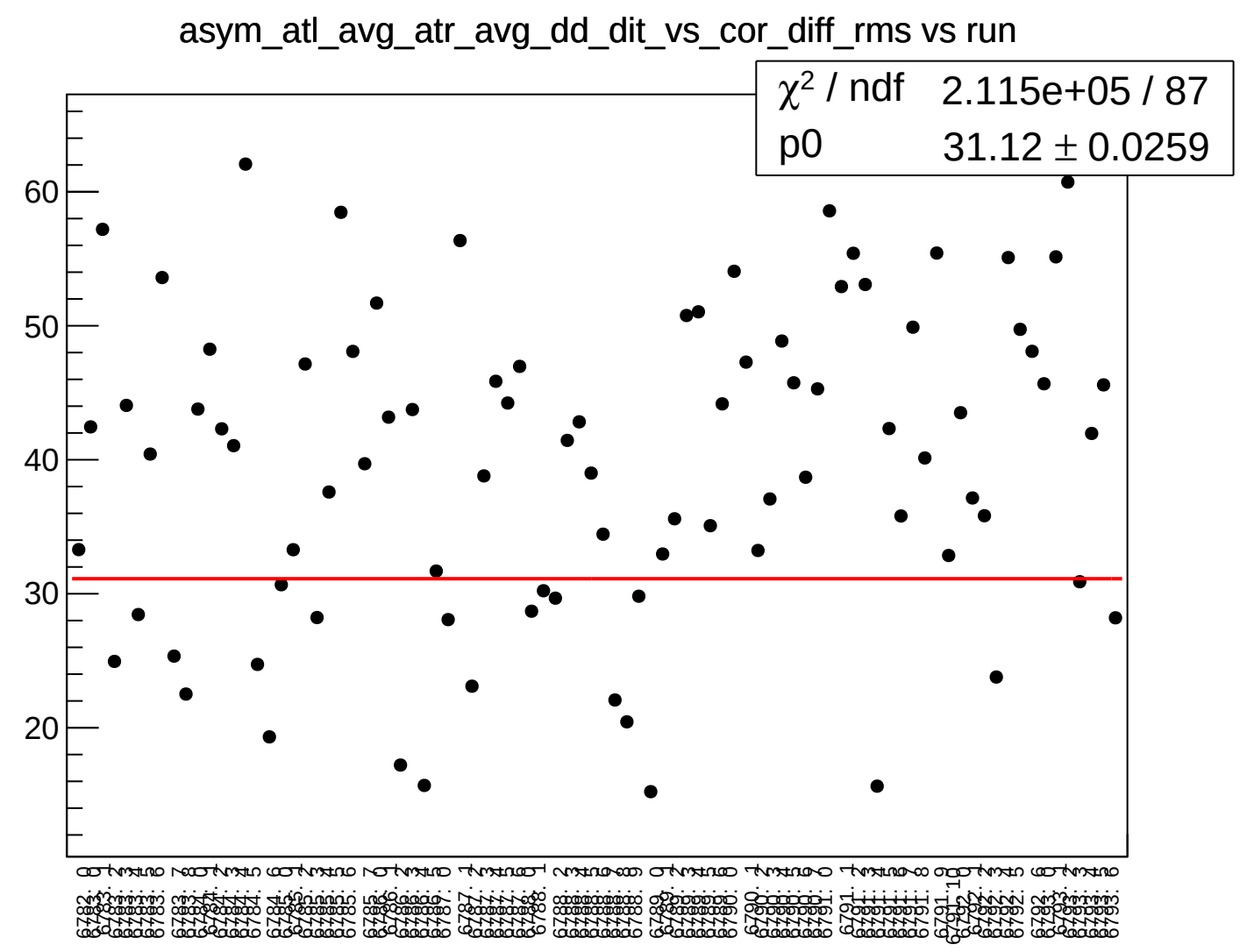

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 87
p0 −1.446e−14 ± 1.09e−14
pull
Entries 88
Mean −22.17
Std Dev 0

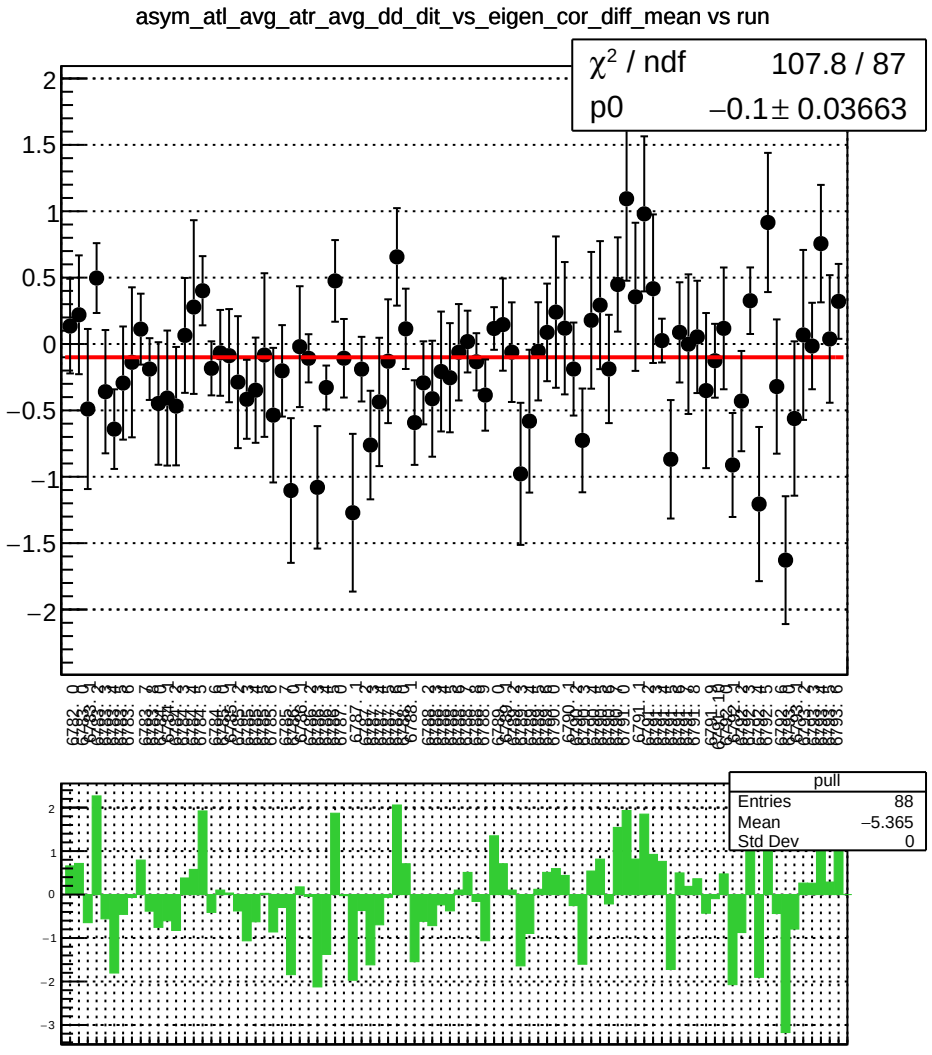

pull1D
Entries 88
Mean −0.07013
Std Dev 1.084

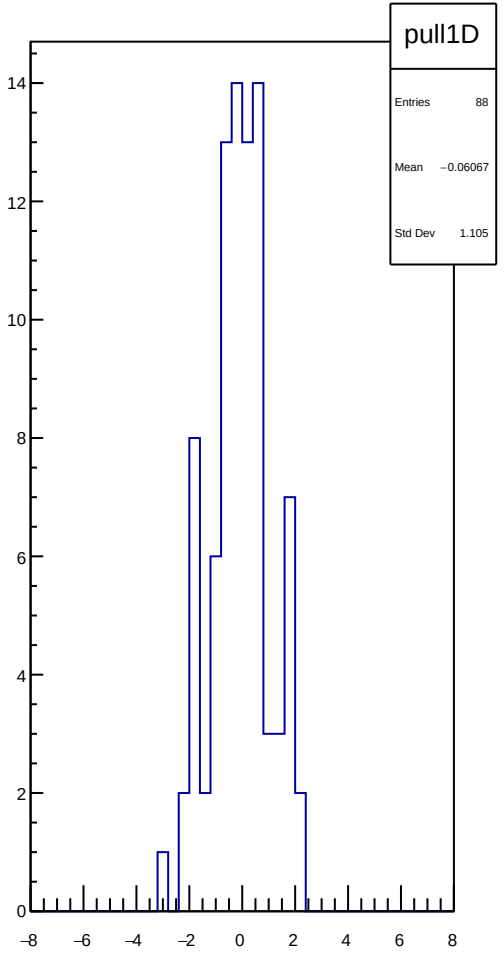

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 87
p0 6.119e−12 ± 7.71e−15
1
0.8
0.6
0.4
0.2
0

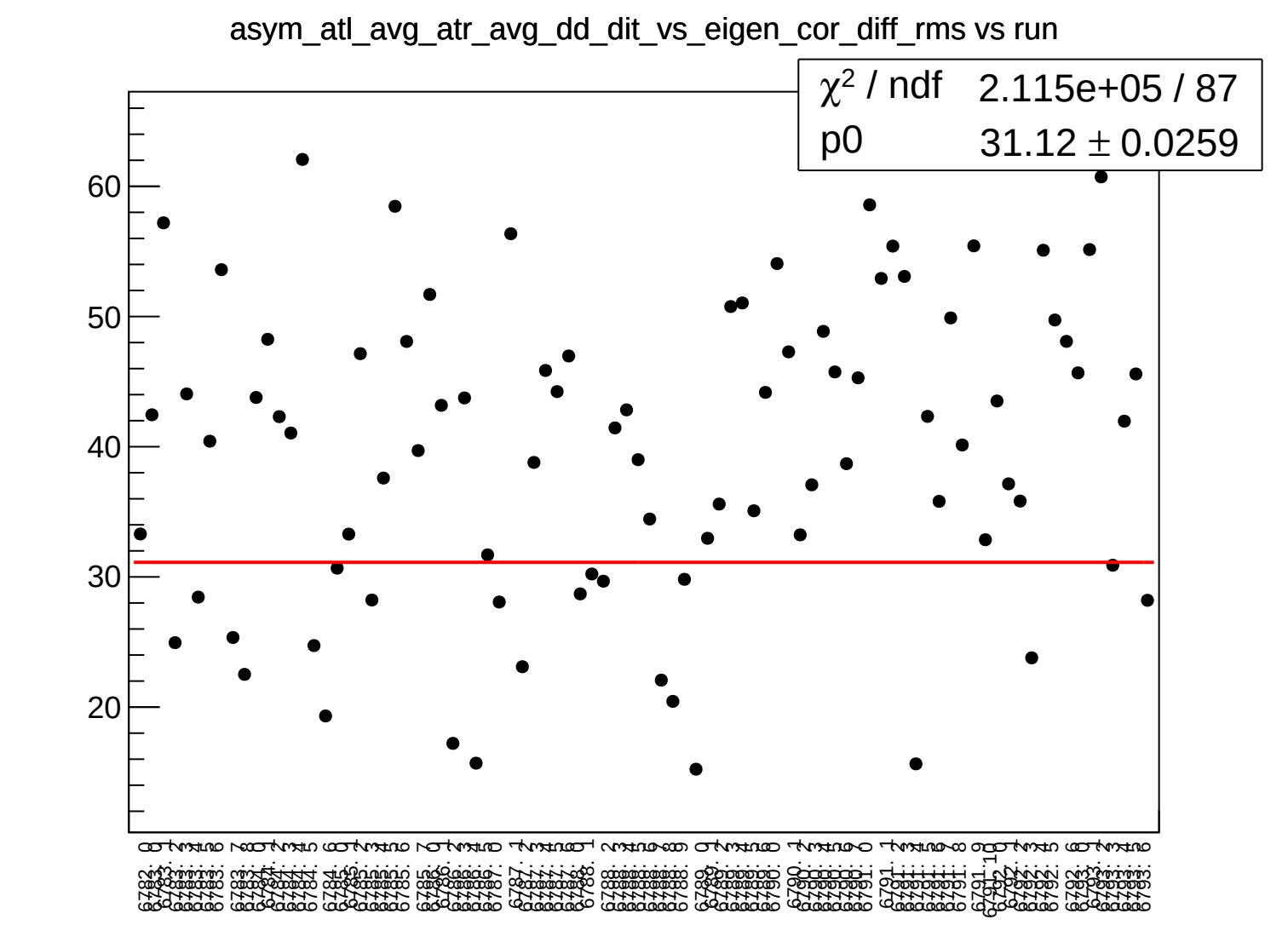

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1± 0.03663
pull
Entries 88
Mean −5.365
Std Dev 0

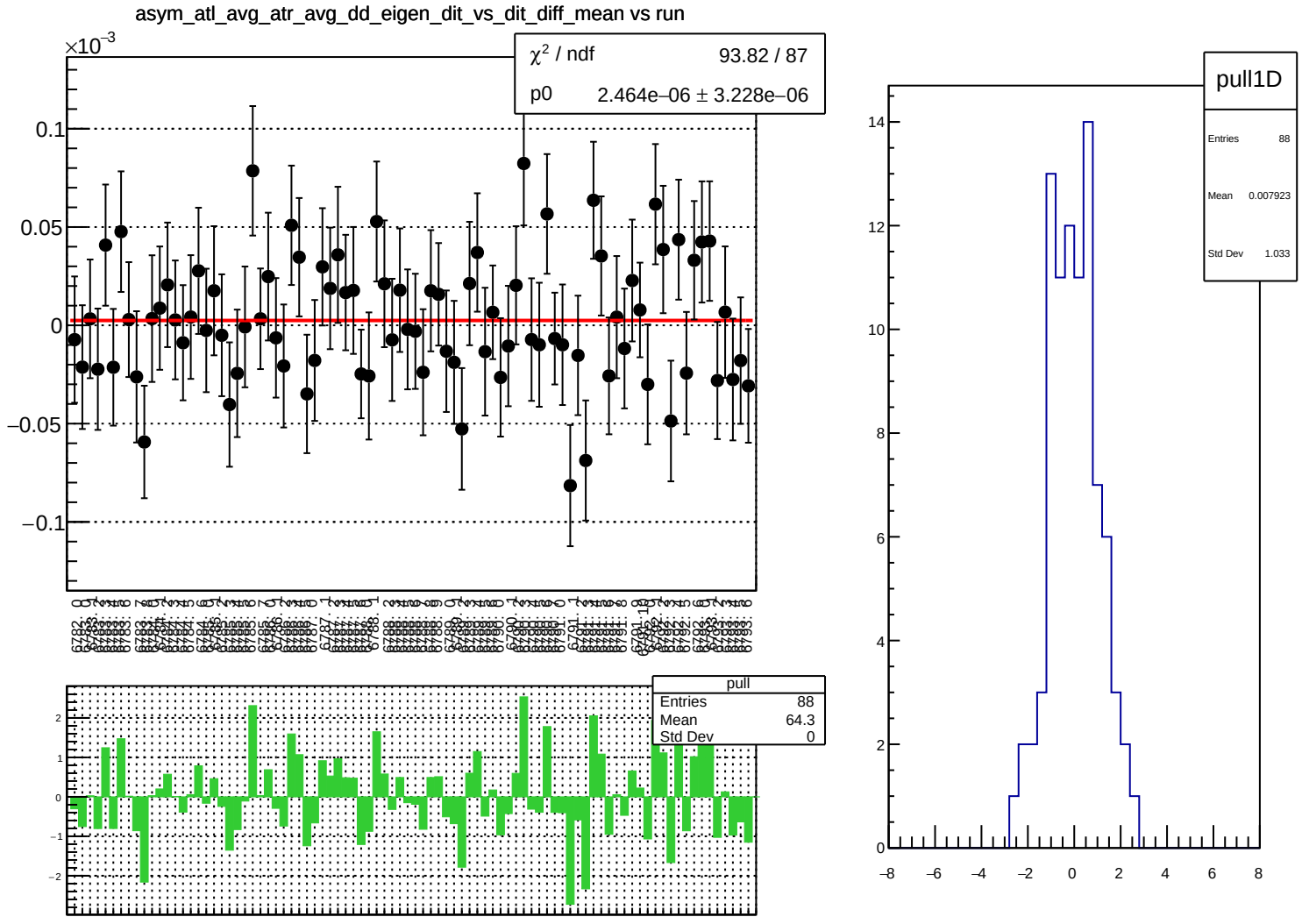

pull1D
Entries 88
Mean −0.06067
Std Dev 1.105

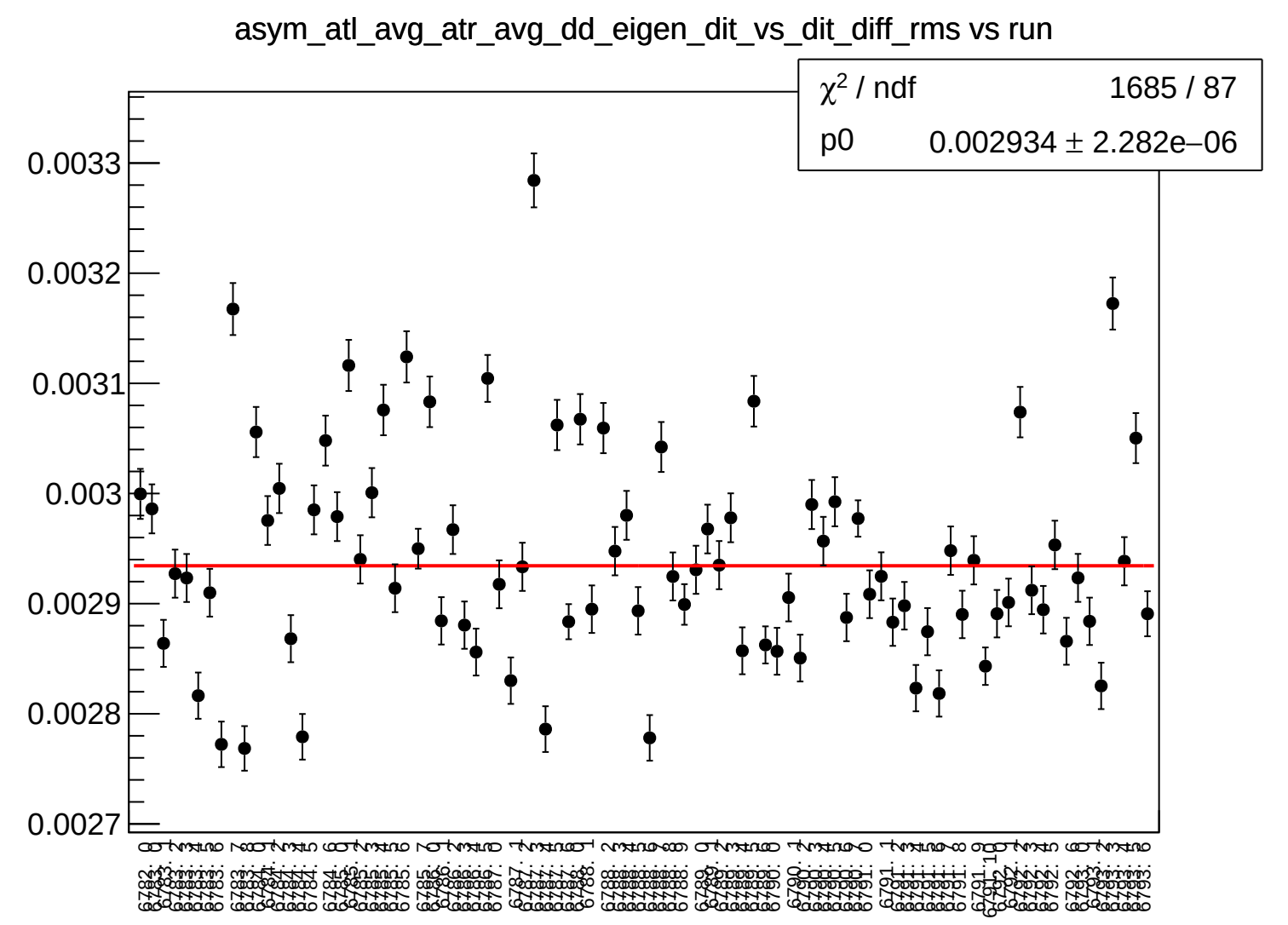

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 87
p0 31.12 ± 0.0259
60
50
40
30
20

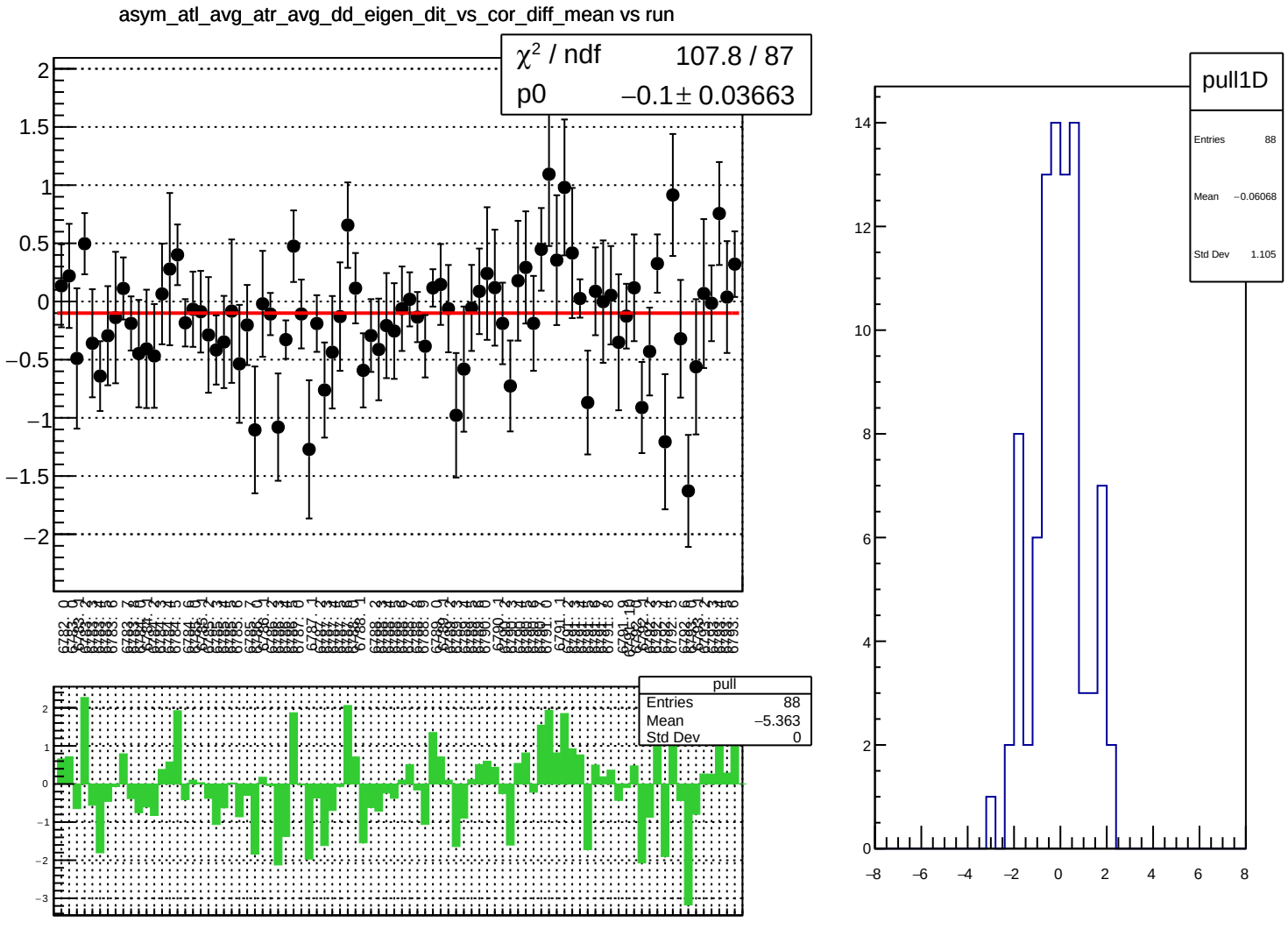

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1 ± 0.03663
pull
Entries 88
Mean −5.365
Std Dev 0

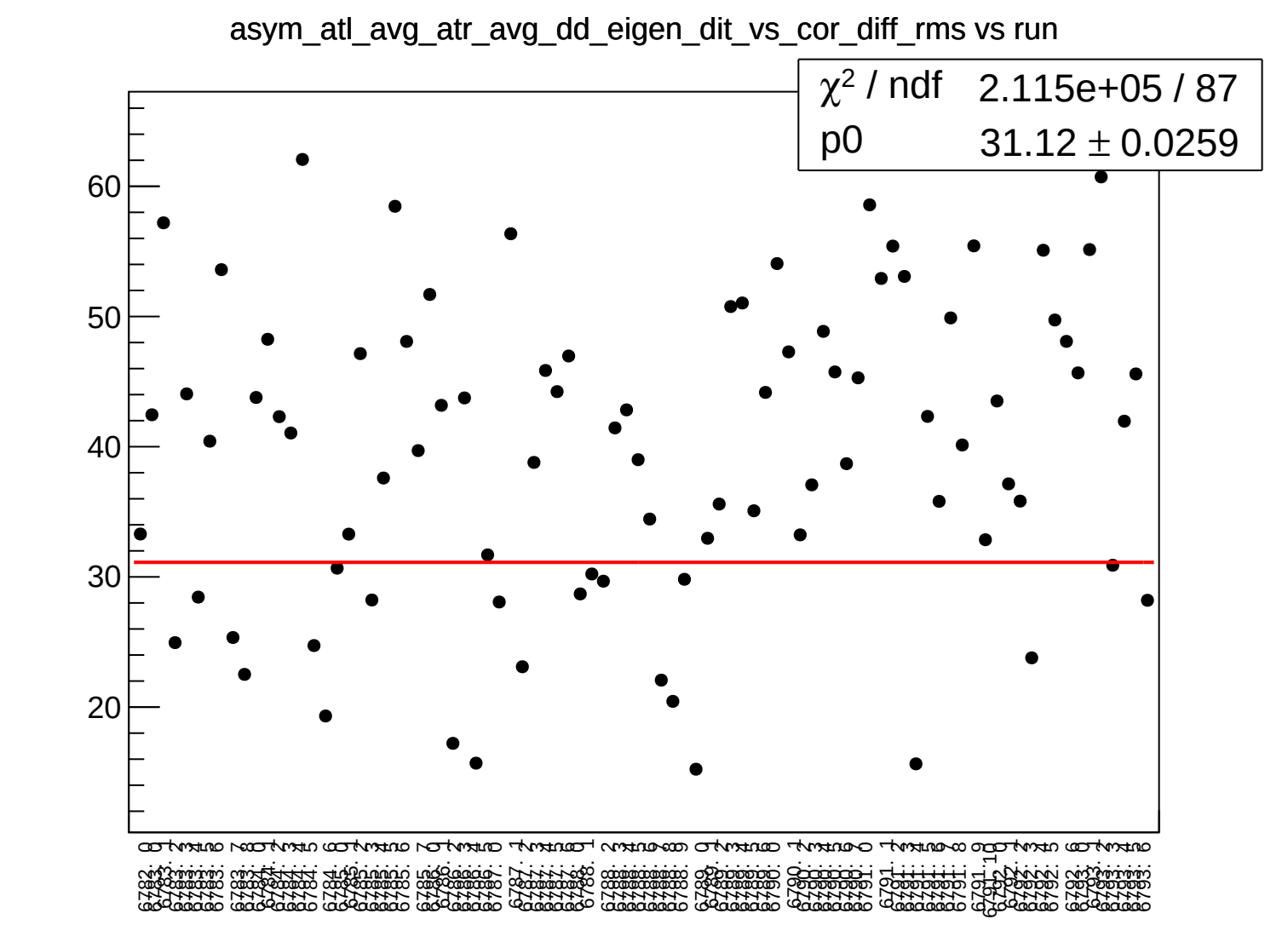

pull1D
Entries 88
Mean −0.06067
Std Dev 1.105

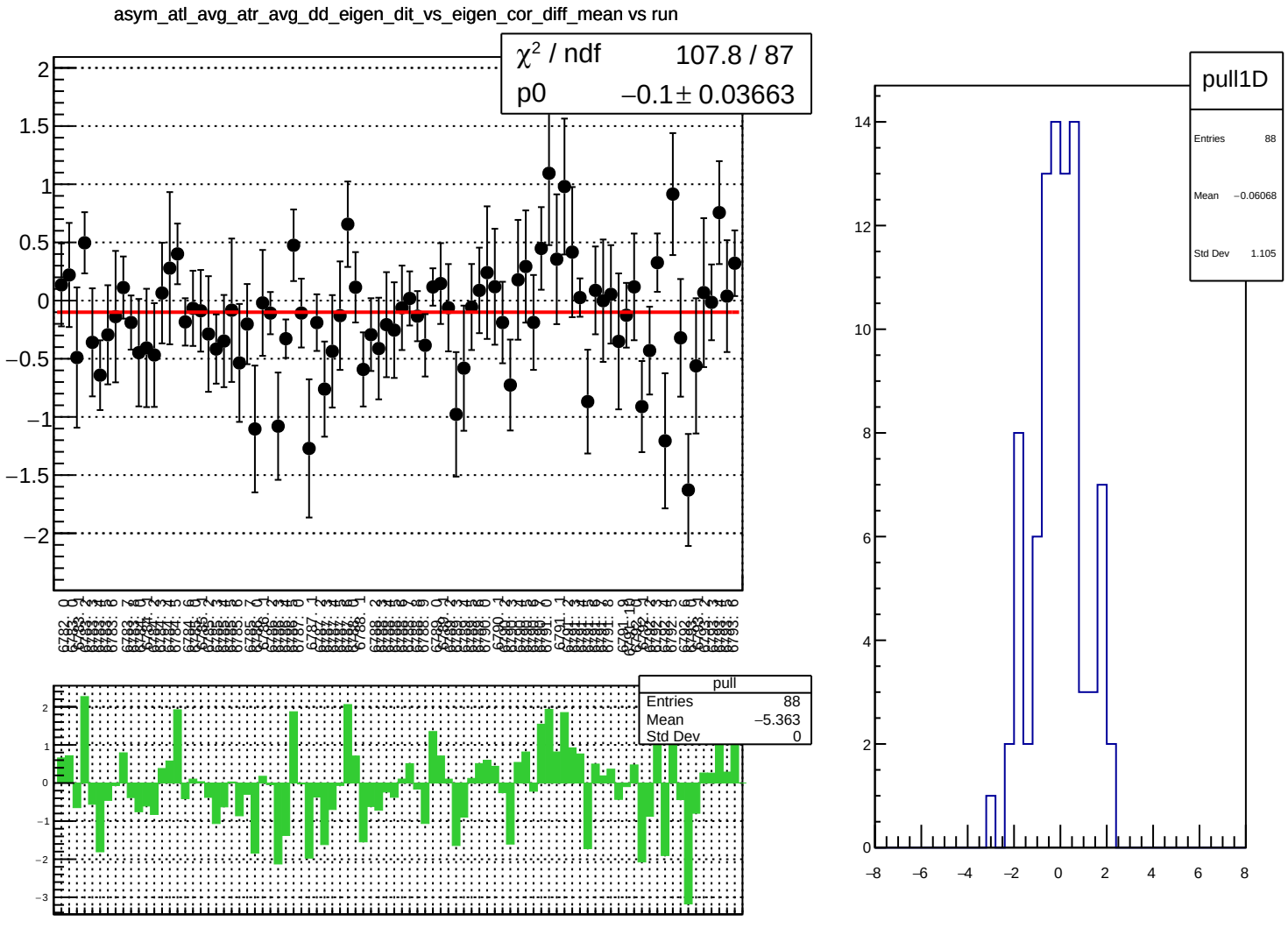

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 87
p0 31.12 ± 0.0259
60
50
40
30
20

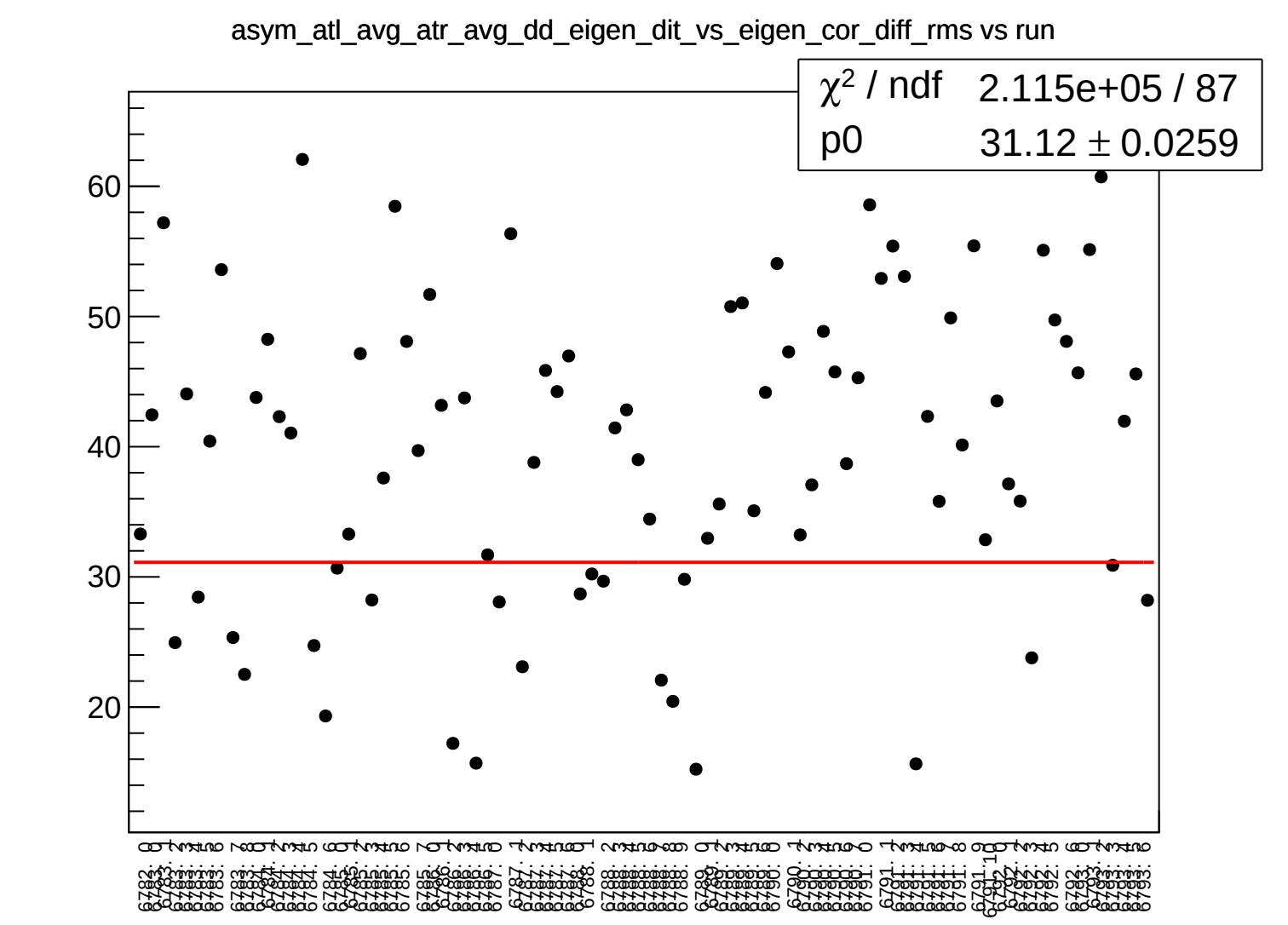

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 93.82 / 87
p0 2.464e−06 ± 3.228e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 64.3
Std Dev 0
pull1D
Entries 88
Mean 0.007923
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

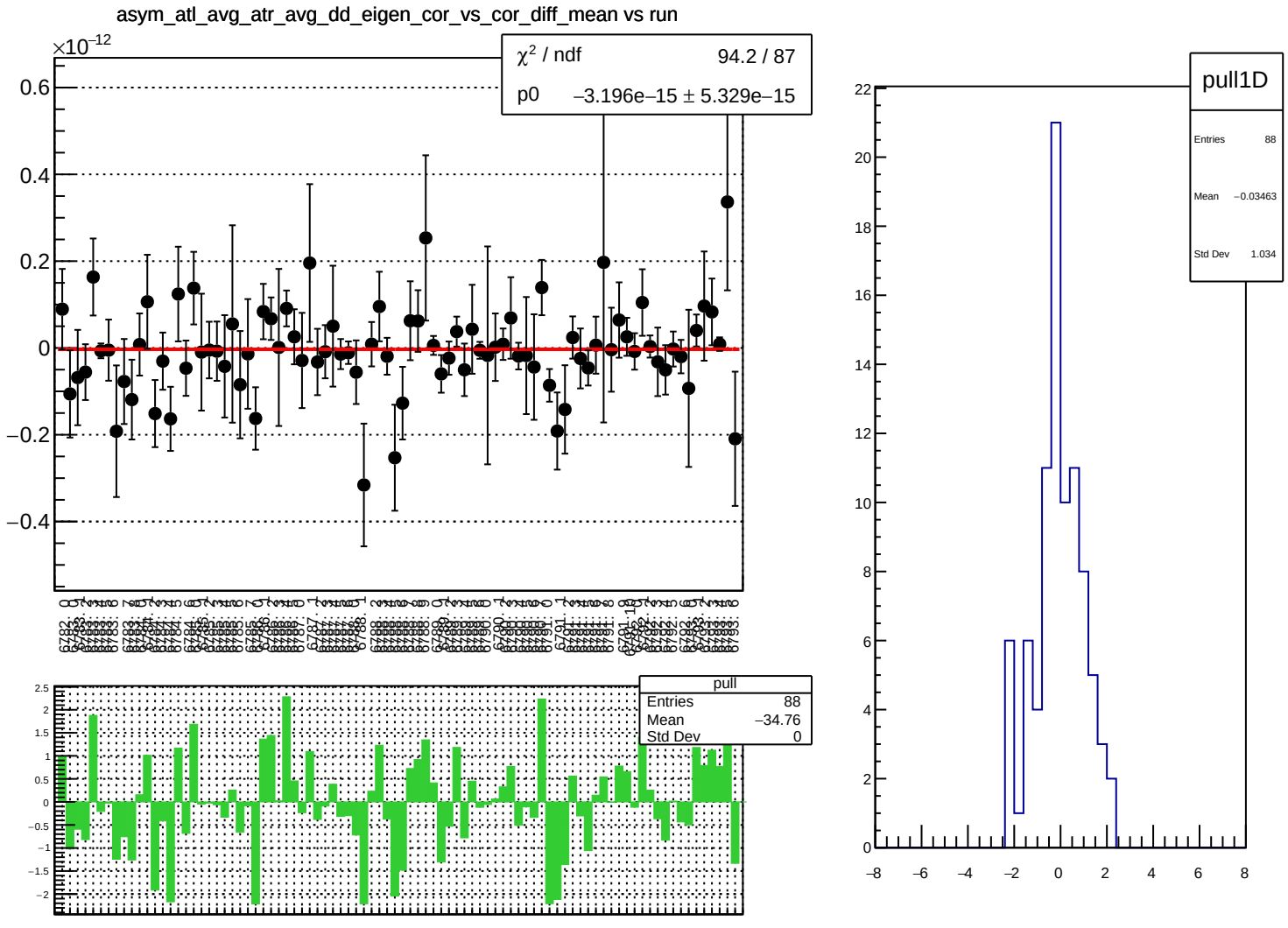

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1685 / 87
p0 0.002934 ± 2.282e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

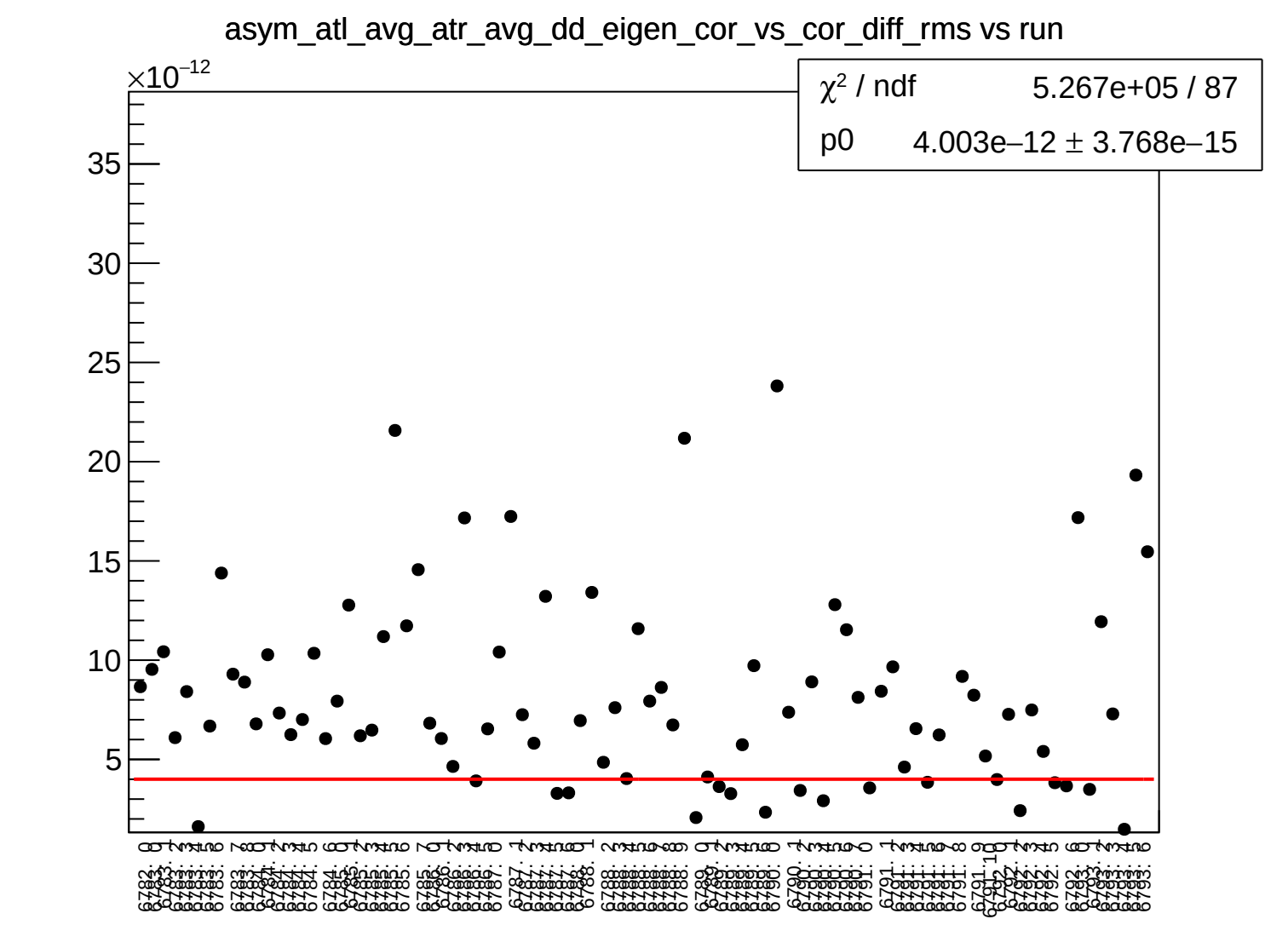

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1± 0.03663
pull
Entries 88
Mean −5.363
Std Dev 0
pull1D
Entries 88
Mean −0.06068
Std Dev 1.105

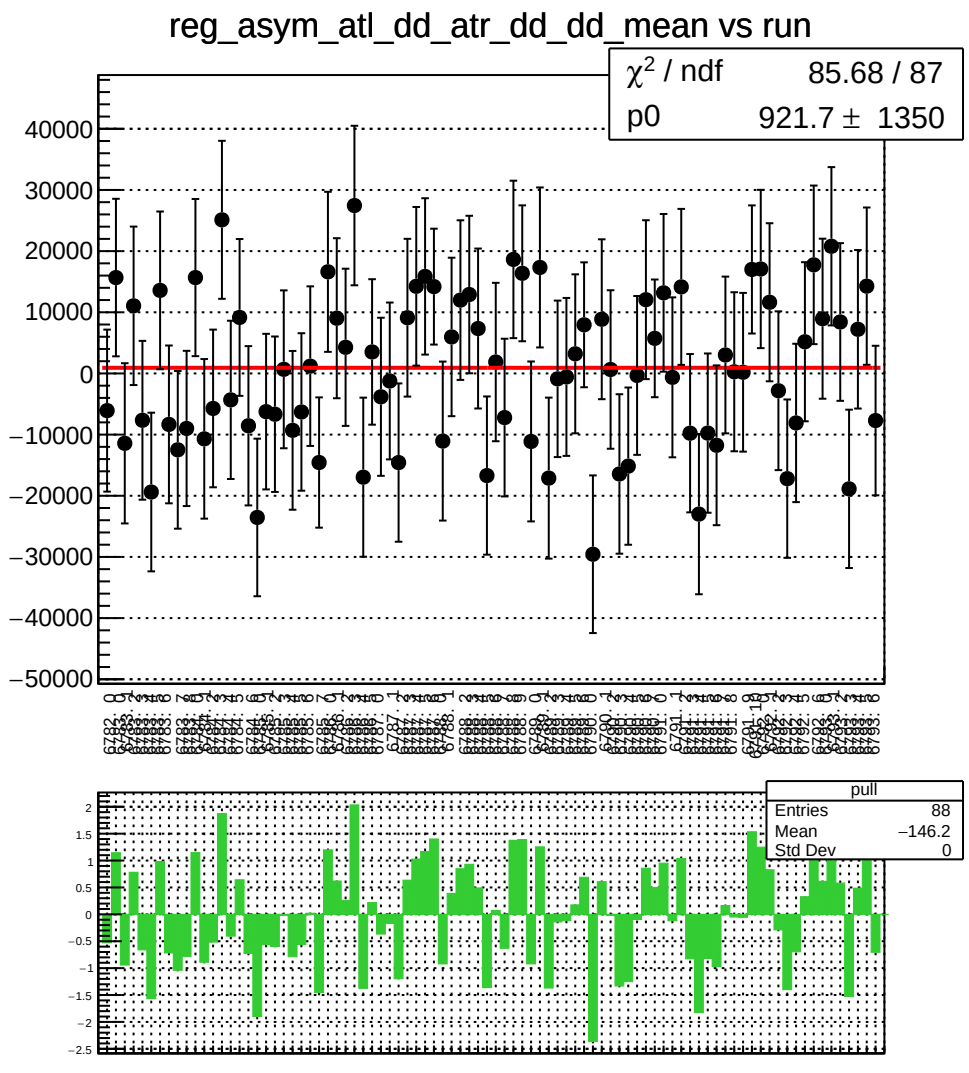

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 87
p0 31.12 ± 0.0259
60
50
40
30
20

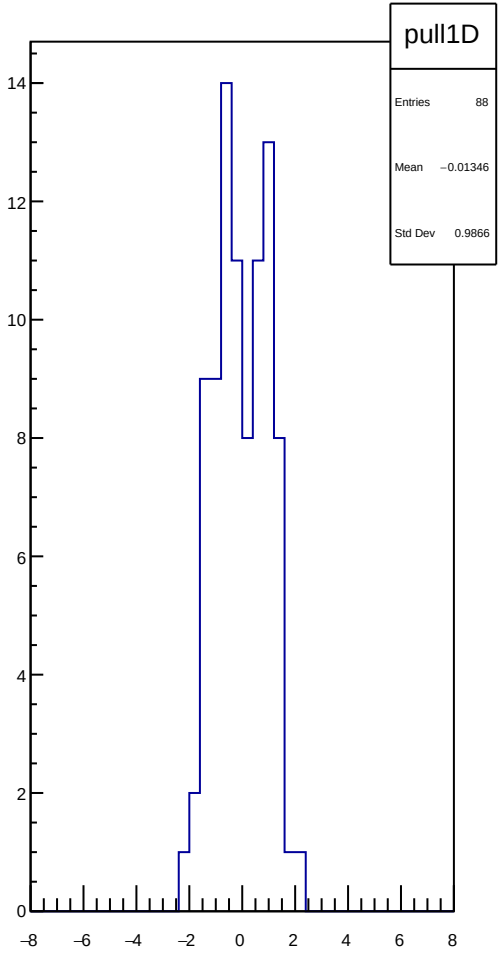

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1± 0.03663
pull
Entries 88
Mean −5.363
Std Dev 0
pull1D
Entries 88
Mean −0.06068
Std Dev 1.105

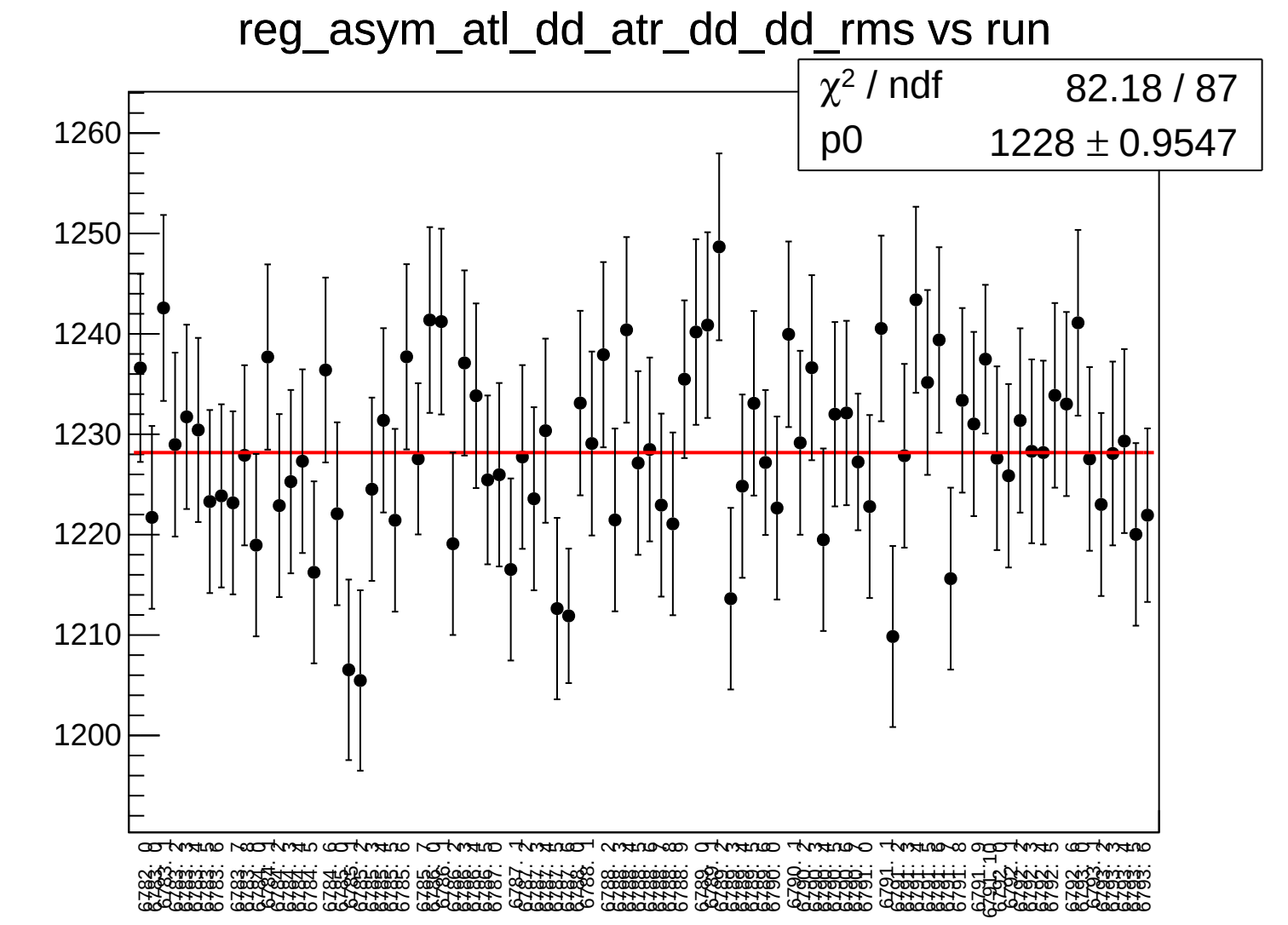

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 87
p0 31.12 ± 0.0259
60
50
40
30
20

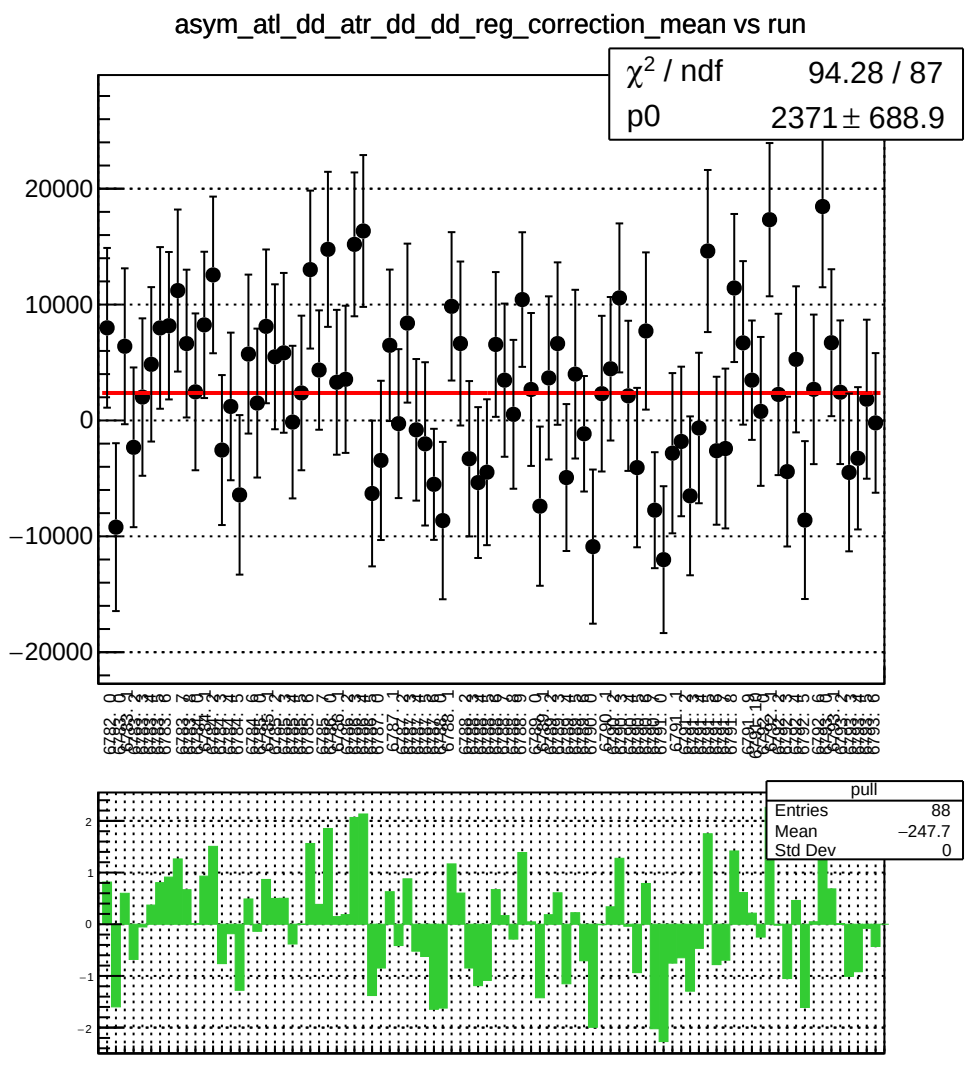

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.2 / 87
p0 −3.196e−15 ± 5.329e−15
pull
Entries 88
Mean −34.76
Std Dev 0
pull1D
Entries 88
Mean −0.03463
Std Dev 1.034

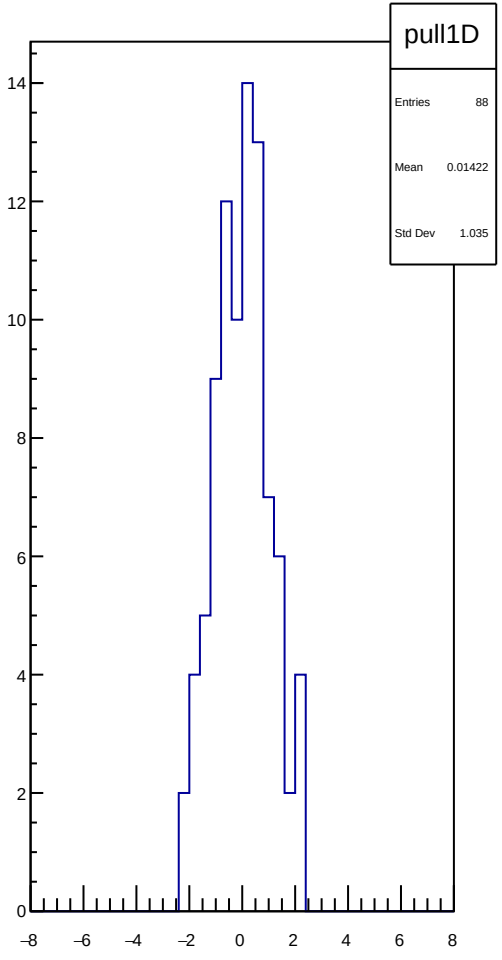

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.267e+05 / 87
p0 4.003e−12 ± 3.768e−15
35
30
25
20
15
10
5

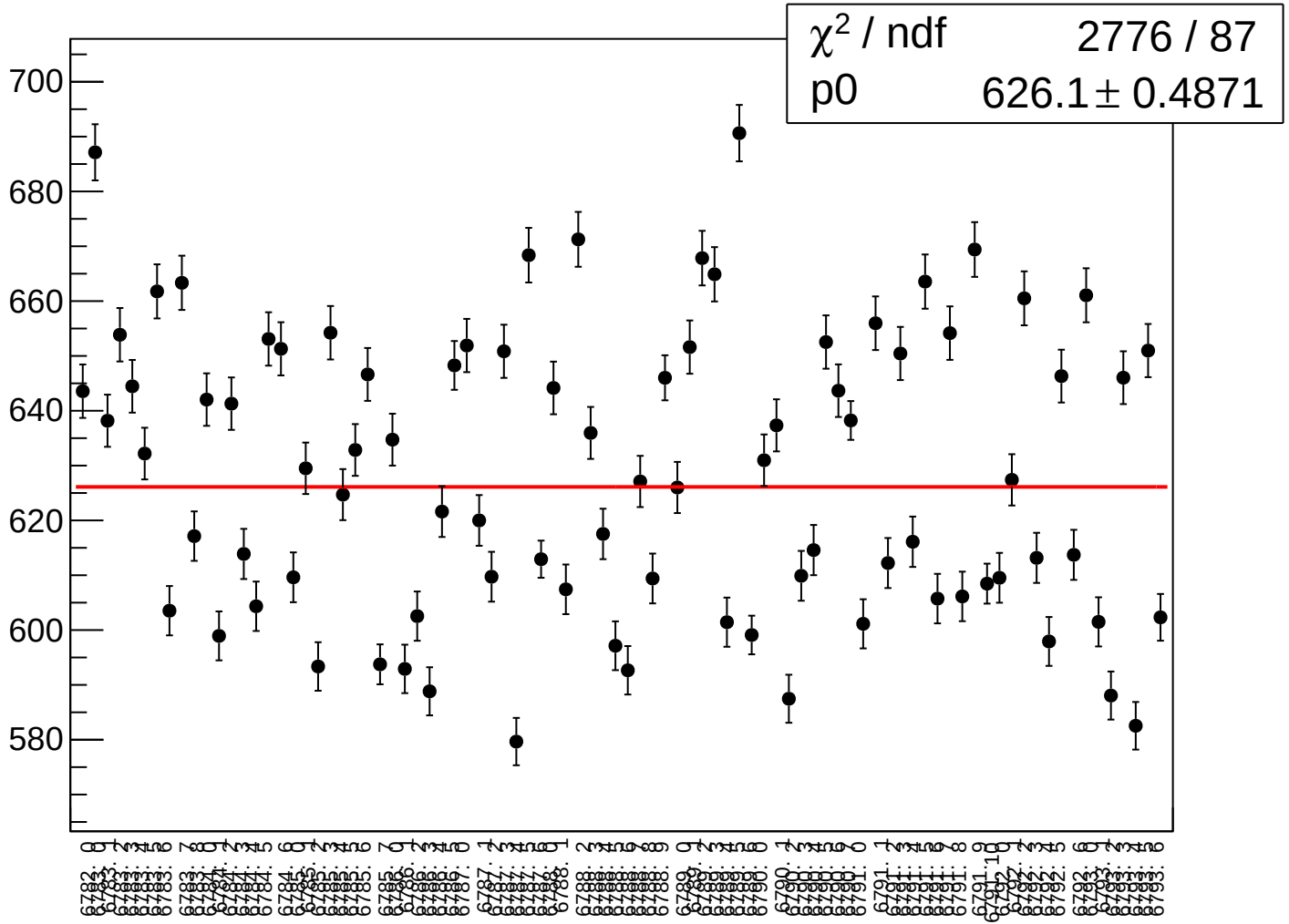

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.68 / 87
p0 921.7 ± 1350
pull
Entries 88
Mean −146.2
Std Dev 0

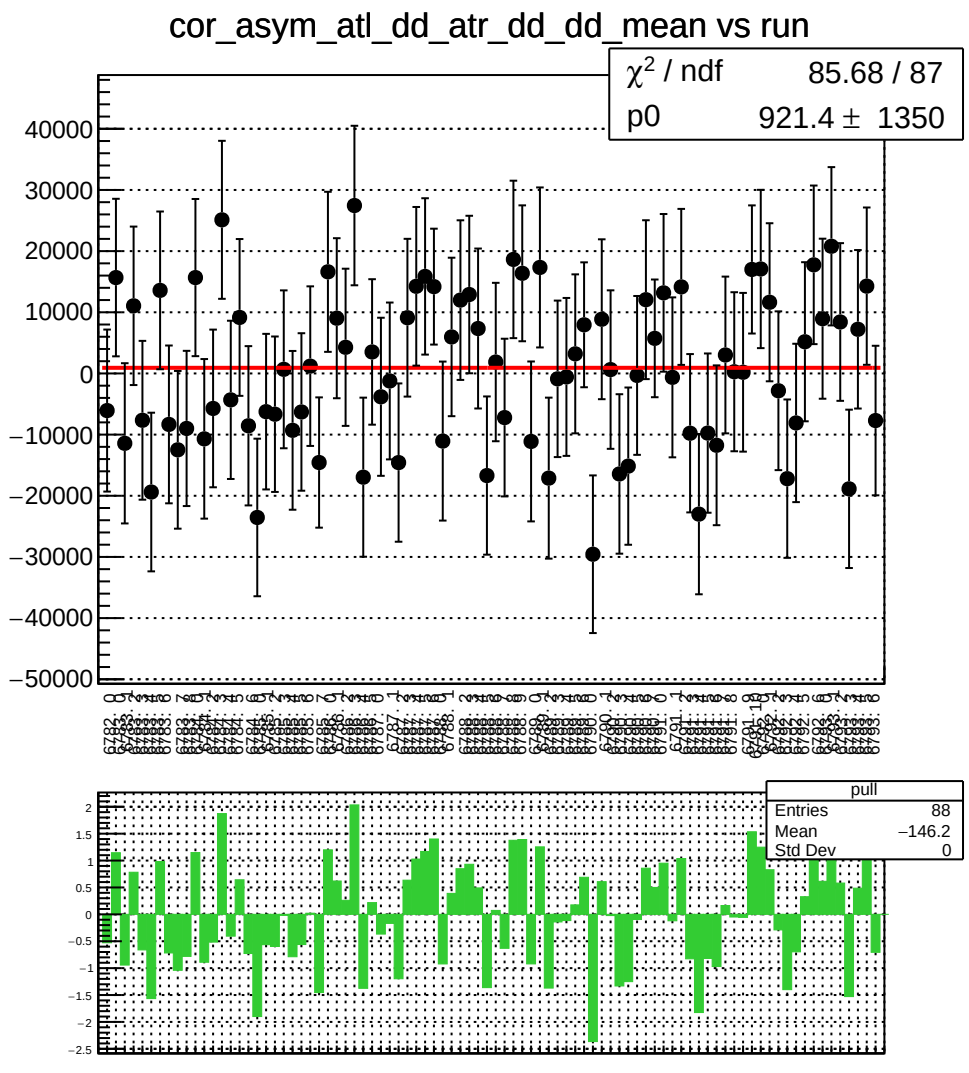

pull1D
Entries 88
Mean −0.01346
Std Dev 0.9866

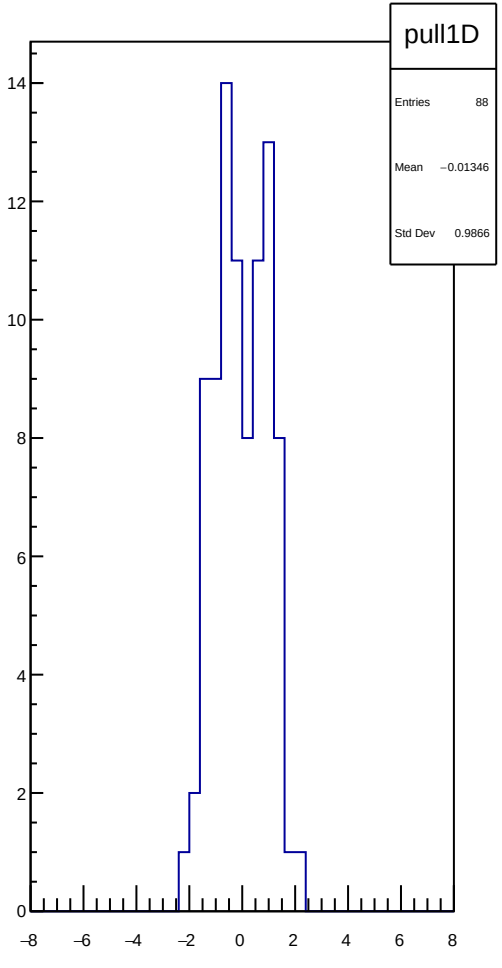

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 82.18 / 87
p0 1228 ± 0.9547
1260
1250
1240
1230
1220
1210
1200

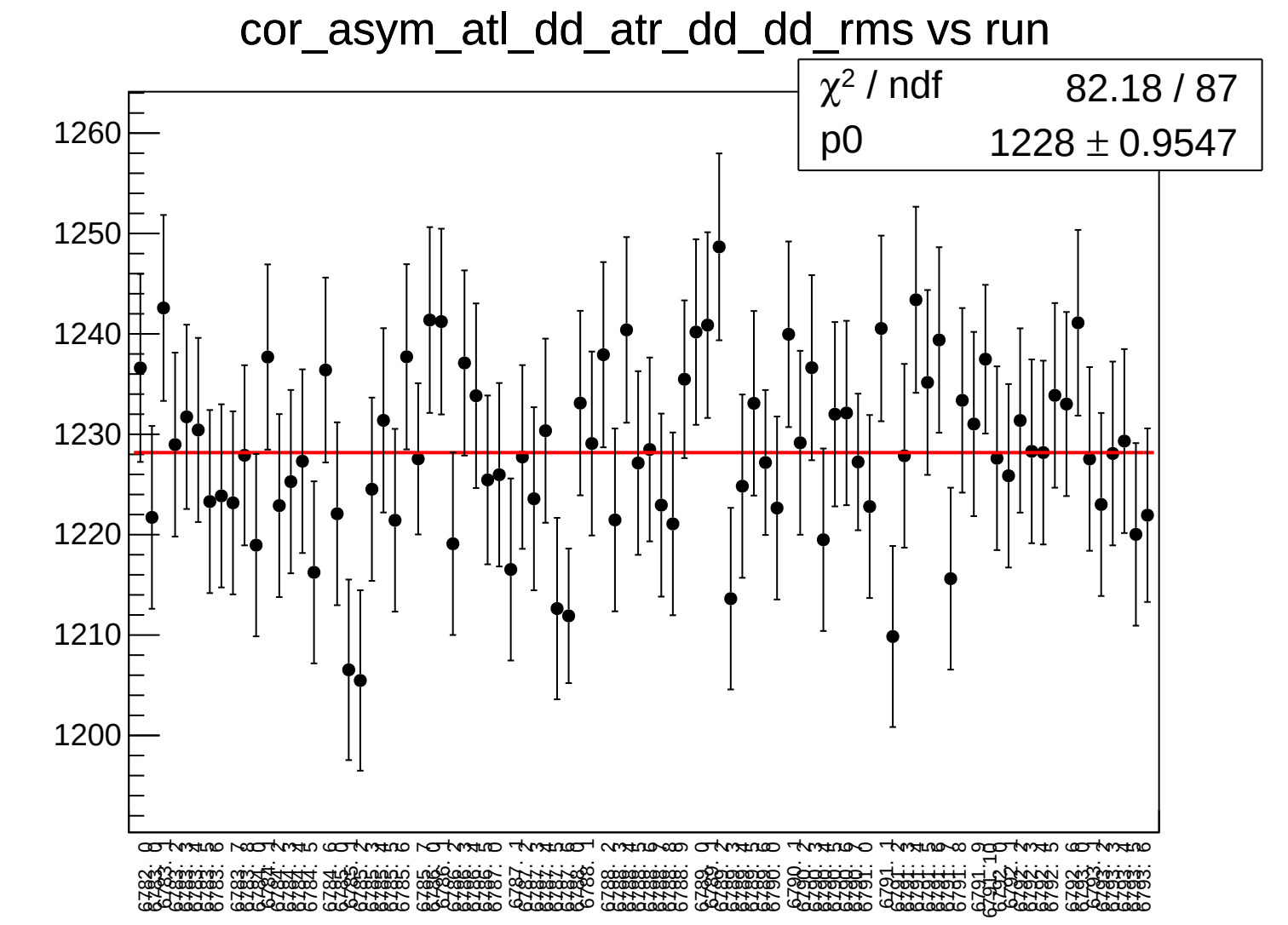

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 94.28 / 87
p0 2371 ± 688.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −247.7
Std Dev 0
2
1
0
−1
−2

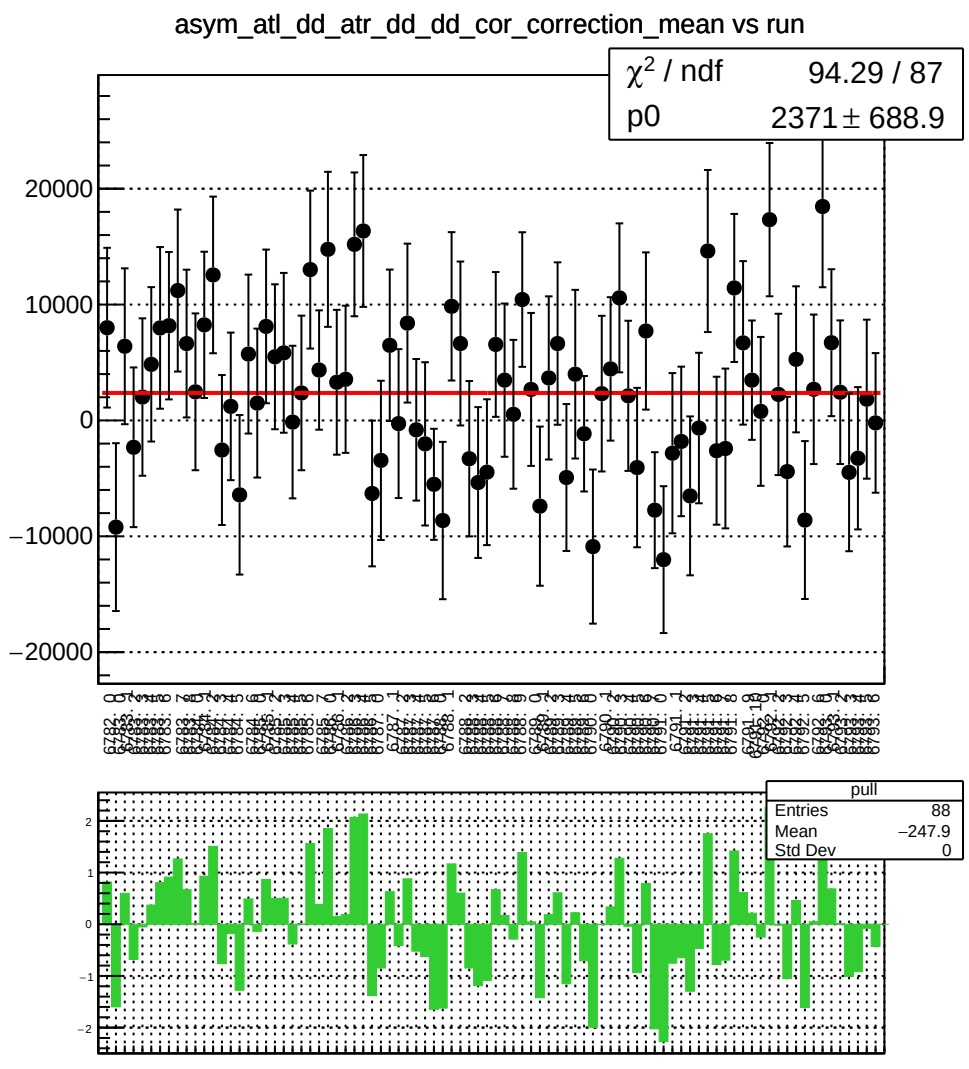

pull1D
Entries 88
Mean 0.01422
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

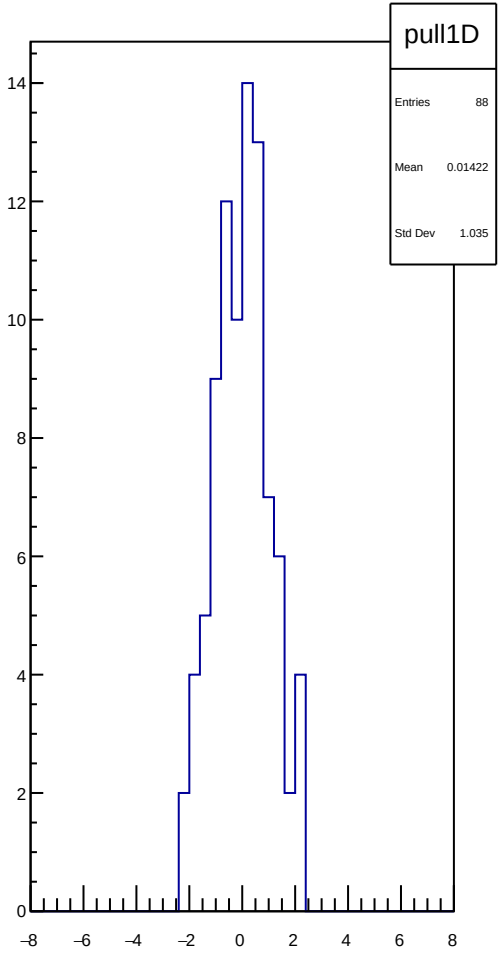

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2776 / 87
p0 626.1 ± 0.4871
700
680
660
640
620
600
580

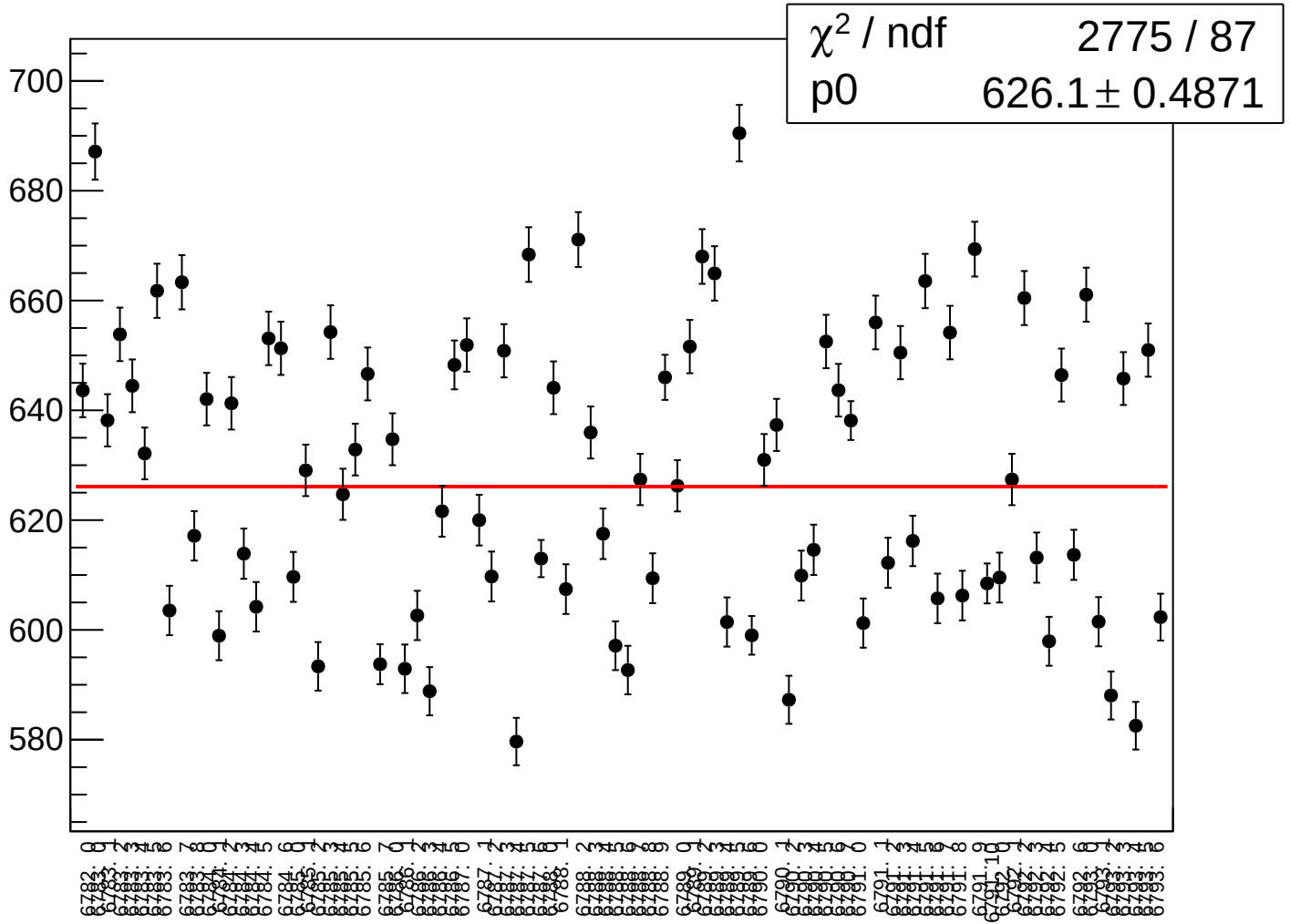

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.68 / 87
p0 921.4 ± 1350
pull
Entries 88
Mean −146.2
Std Dev 0

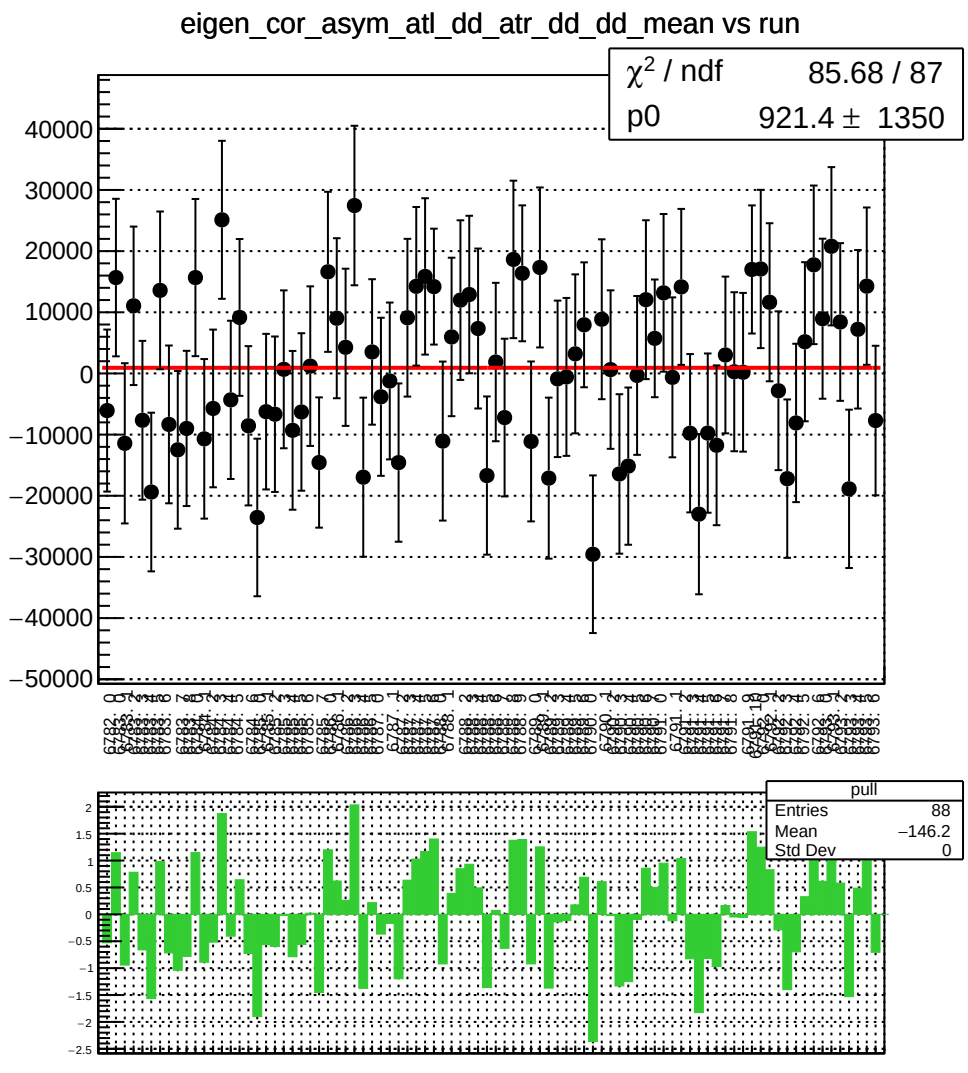

pull1D
Entries 88
Mean −0.01346
Std Dev 0.9866

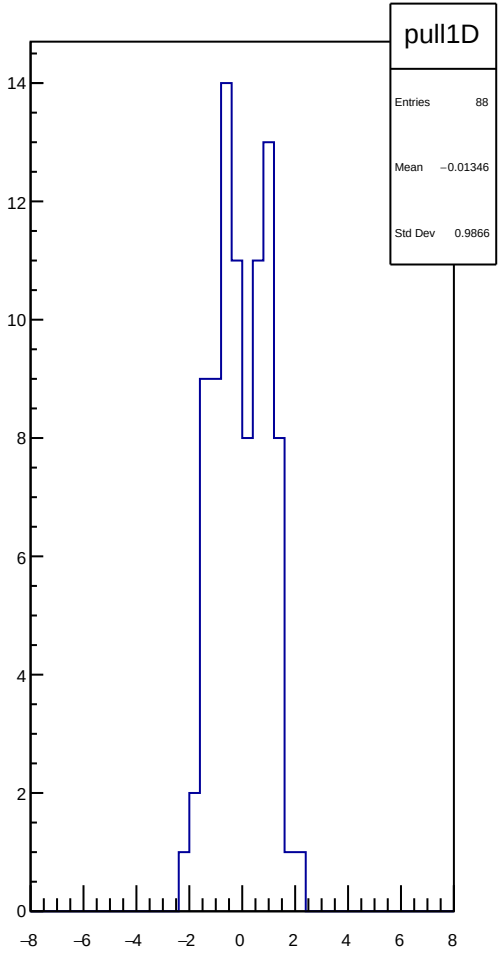

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 82.18 / 87
p0 1228 ± 0.9547
1260
1250
1240
1230
1220
1210
1200

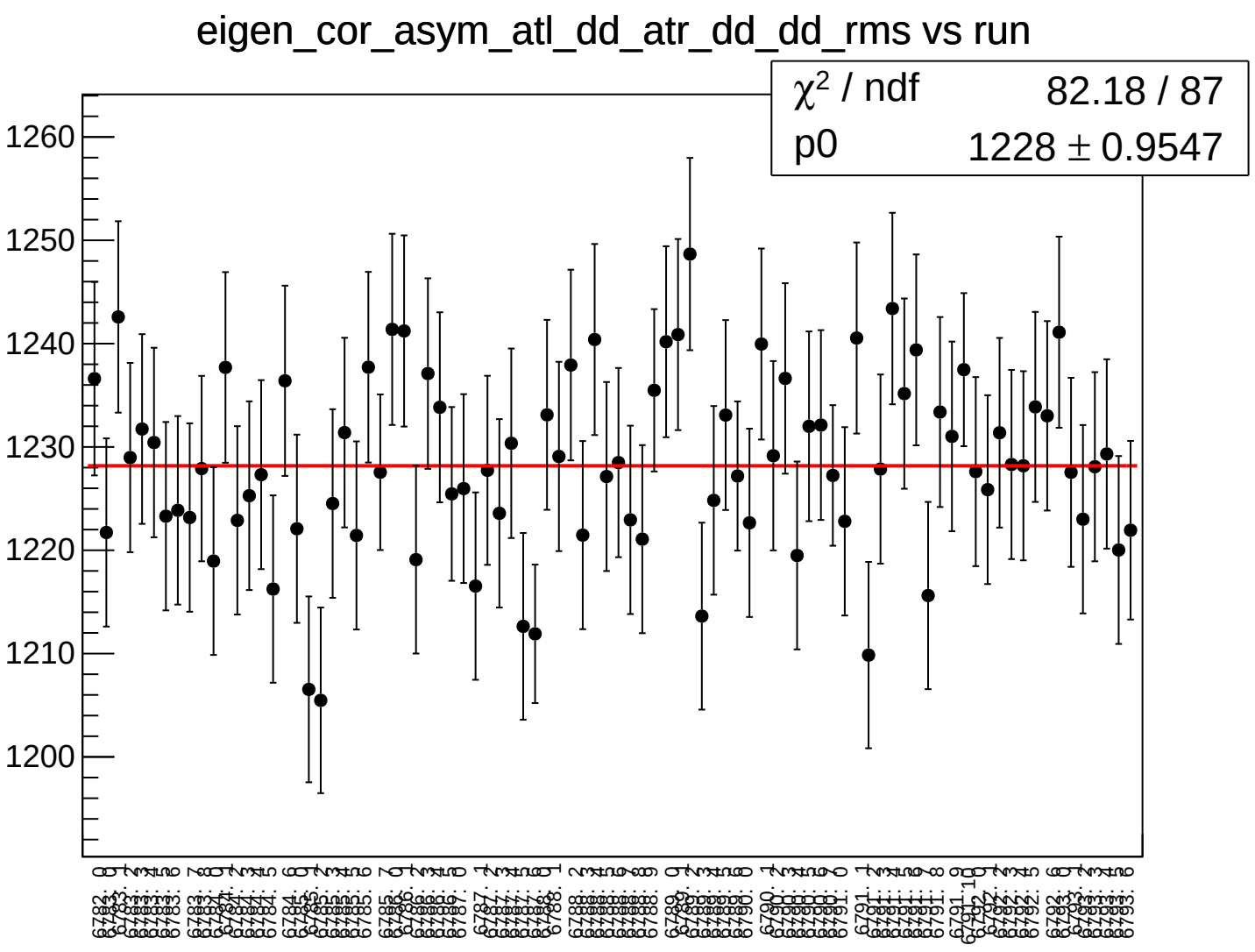

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 94.29 / 87
p0 2371 ± 688.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −247.9
Std Dev 0
2
1
0
−1
−2

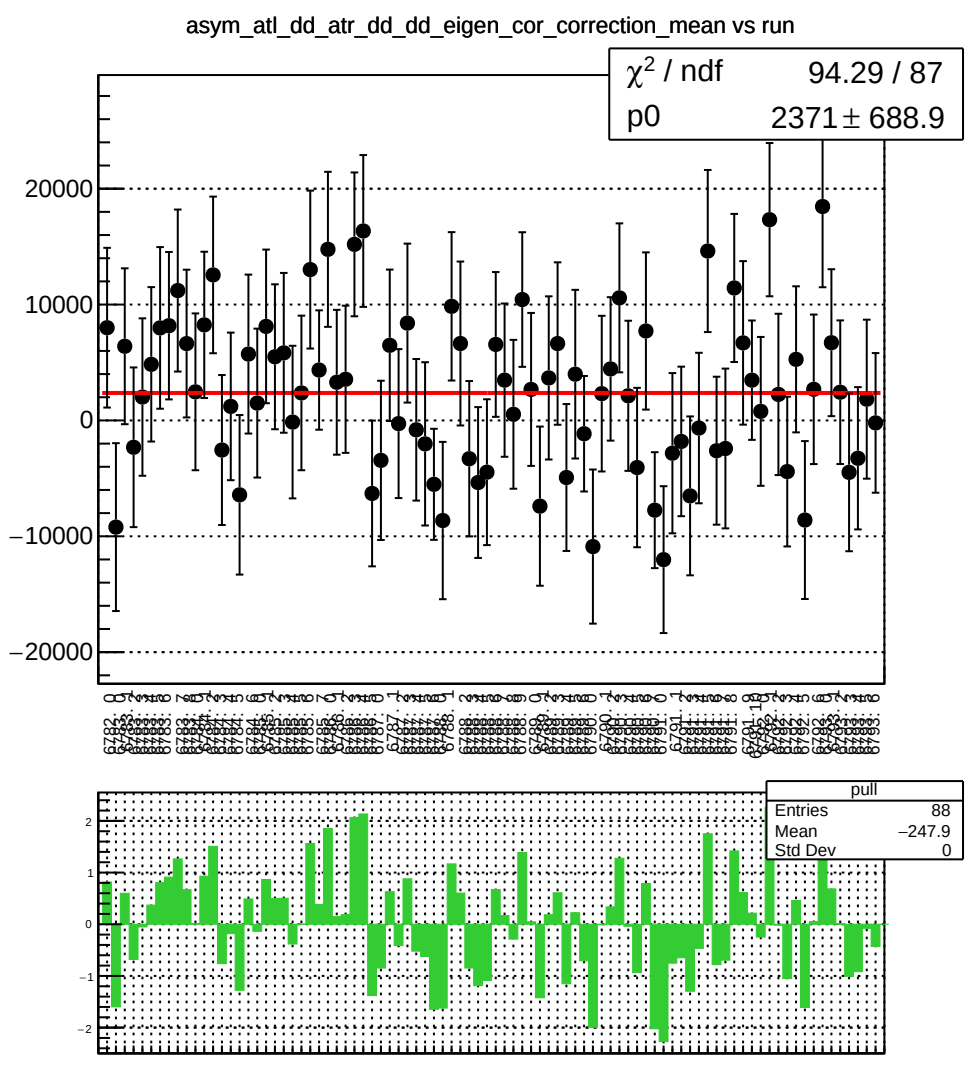

pull1D
Entries 88
Mean 0.01422
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

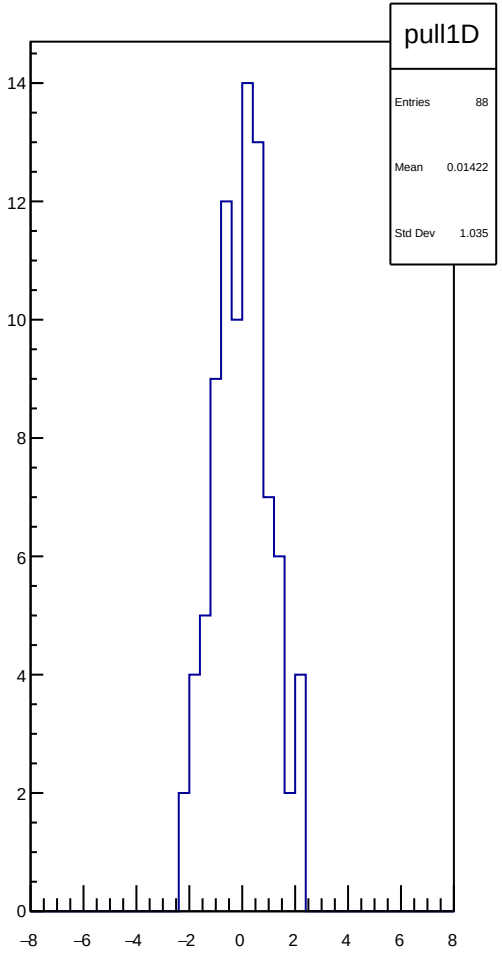

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2775 / 87
p0 626.1 ± 0.4871
700
680
660
640
620
600
580

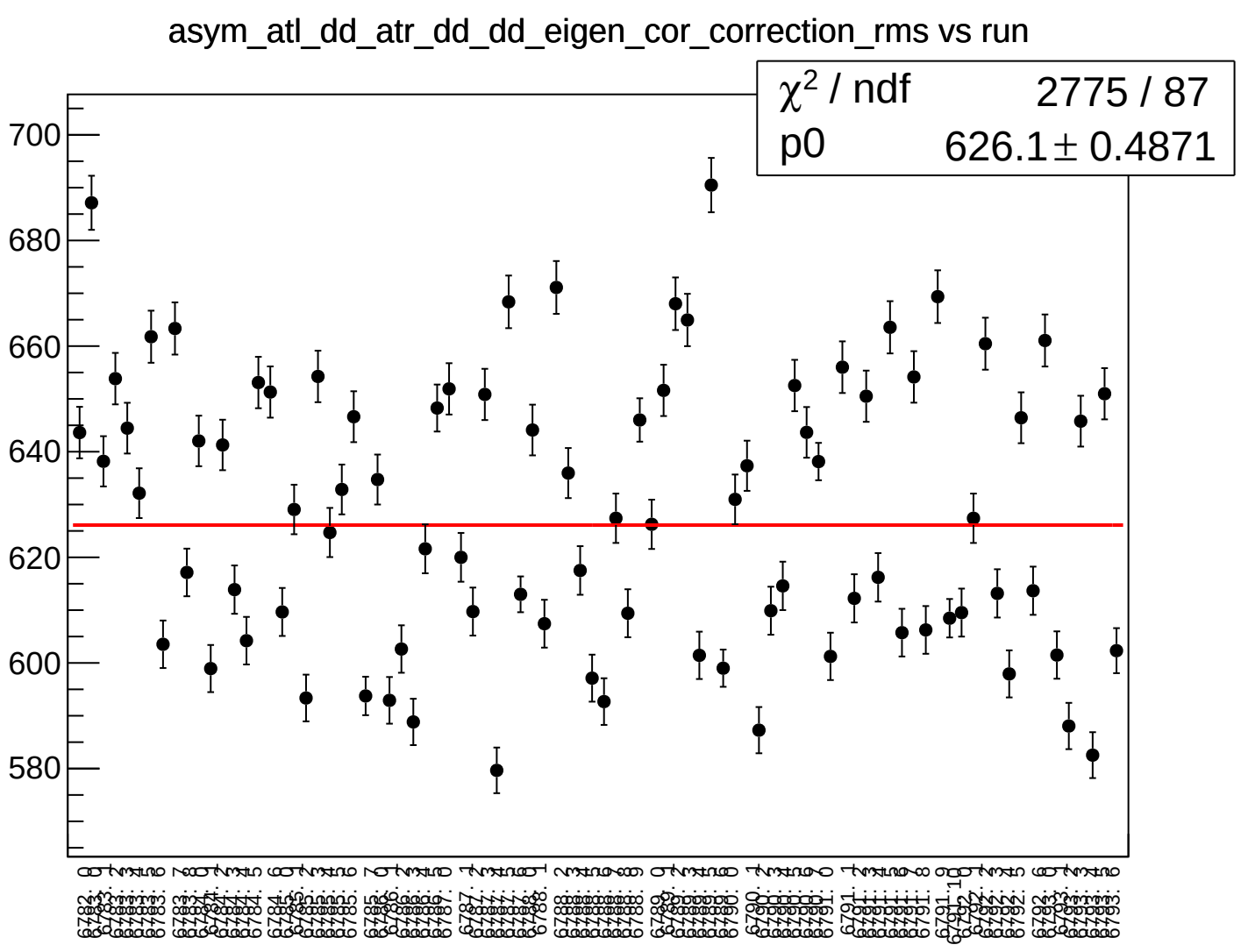

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.68 / 87
p0 921.4 ± 1350
pull
Entries 88
Mean −146.2
Std Dev 0

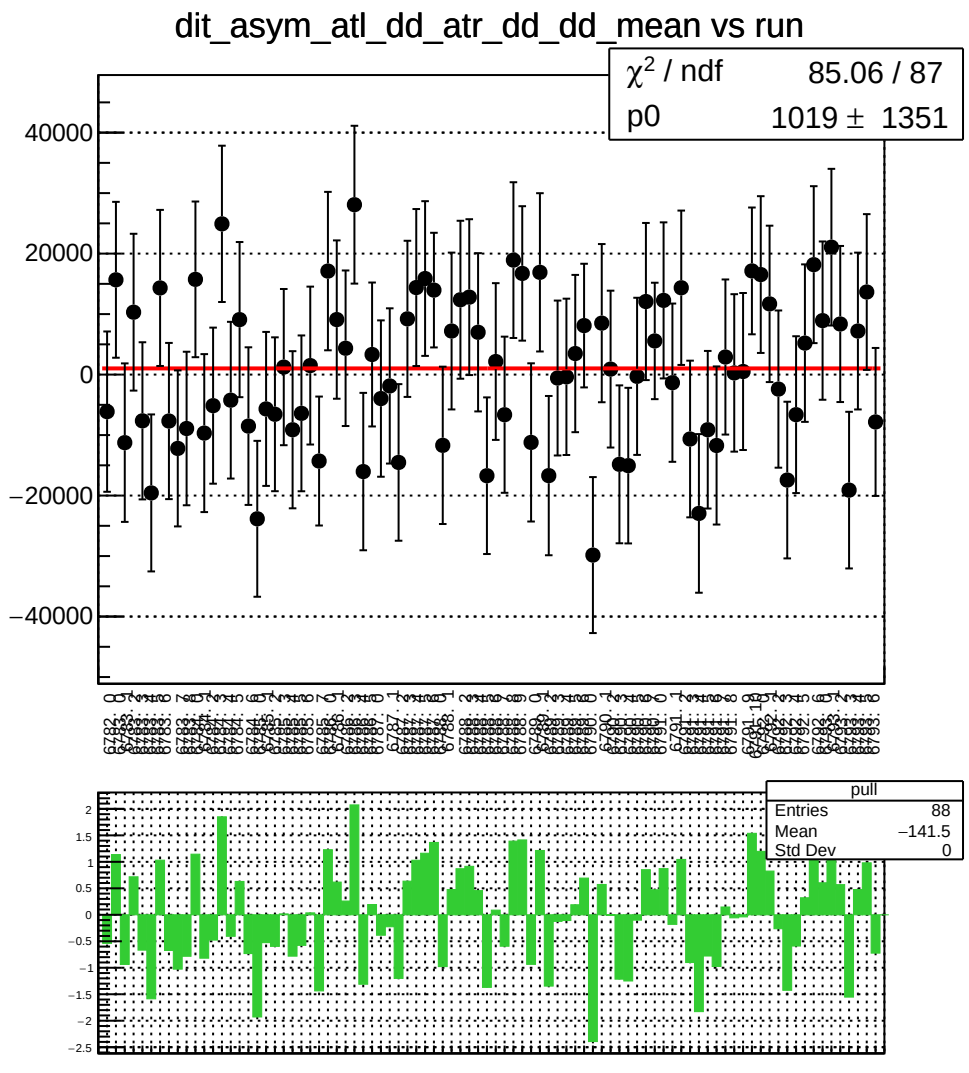

pull1D
Entries 88
Mean −0.01346
Std Dev 0.9866

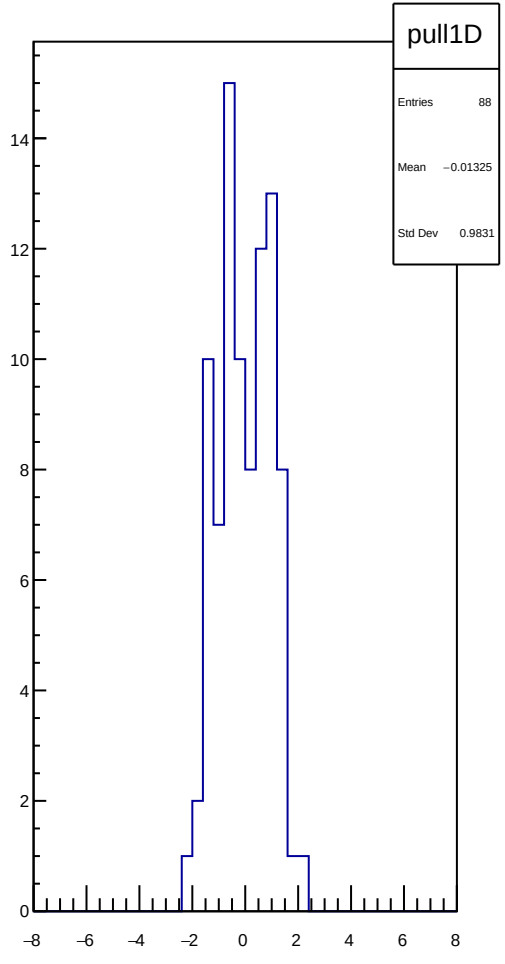

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 82.18 / 87
p0 1228 ± 0.9547
1260
1250
1240
1230
1220
1210
1200


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.29 / 87
p0 2371 ± 688.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −247.9
Std Dev 0
2
1
0
−1
−2

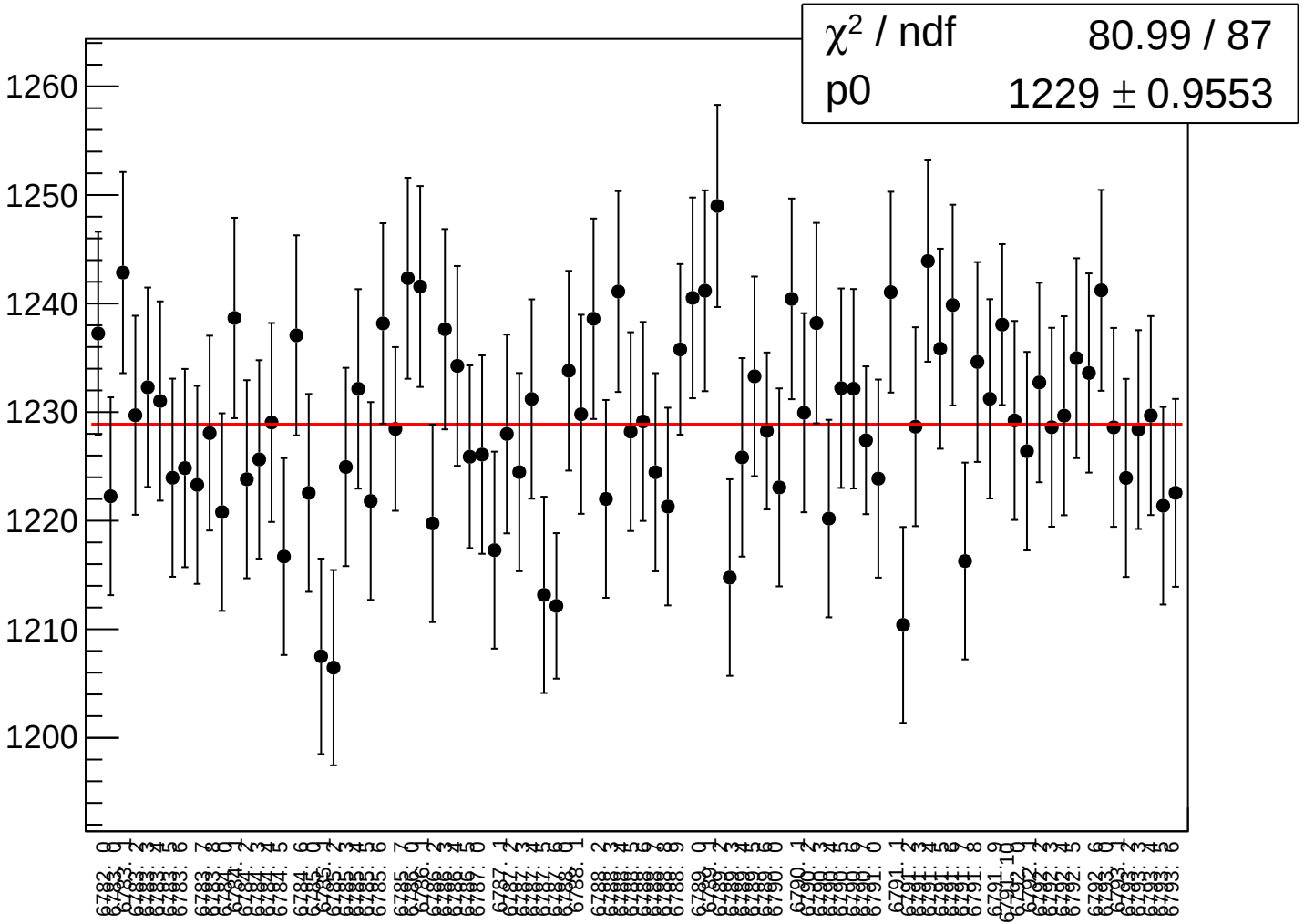

pull1D
Entries 88
Mean 0.01422
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

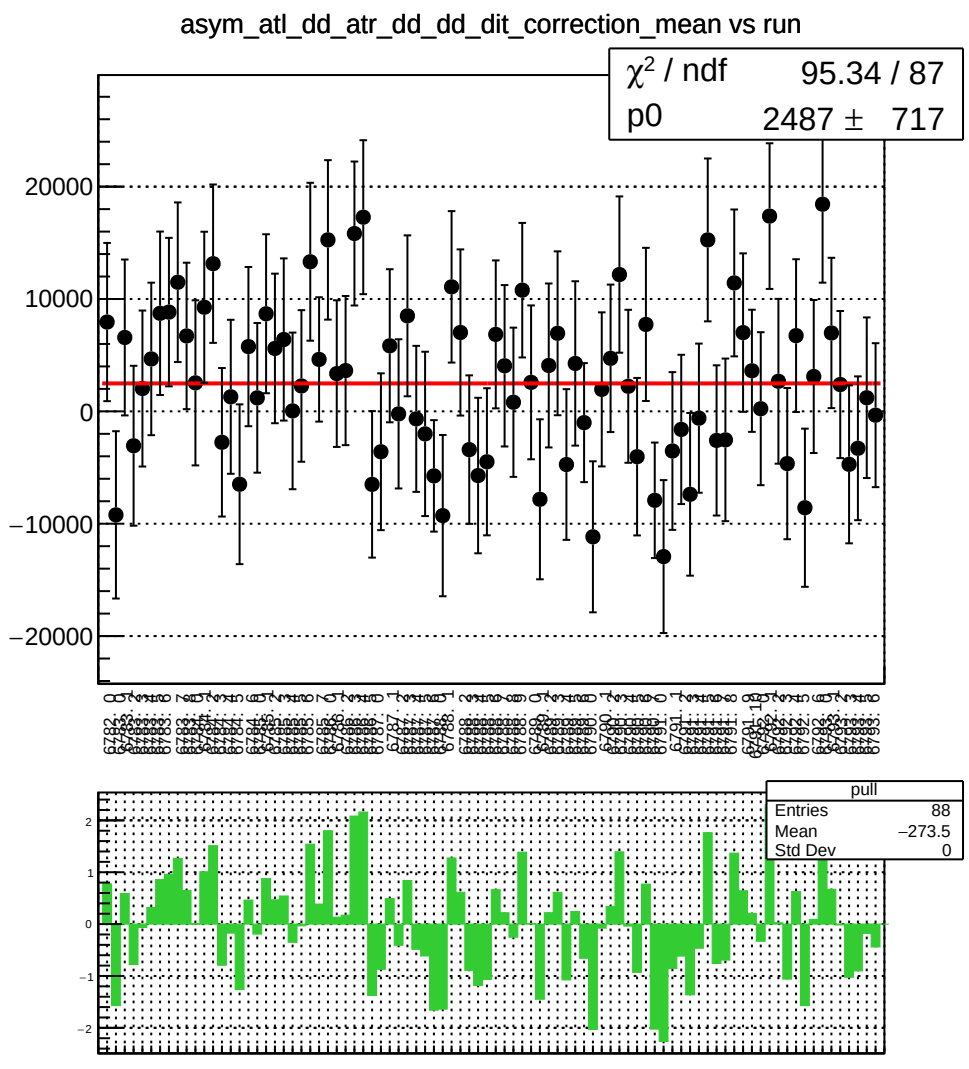

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2775 / 87
p0 626.1 ± 0.4871
700
680
660
640
620
600
580

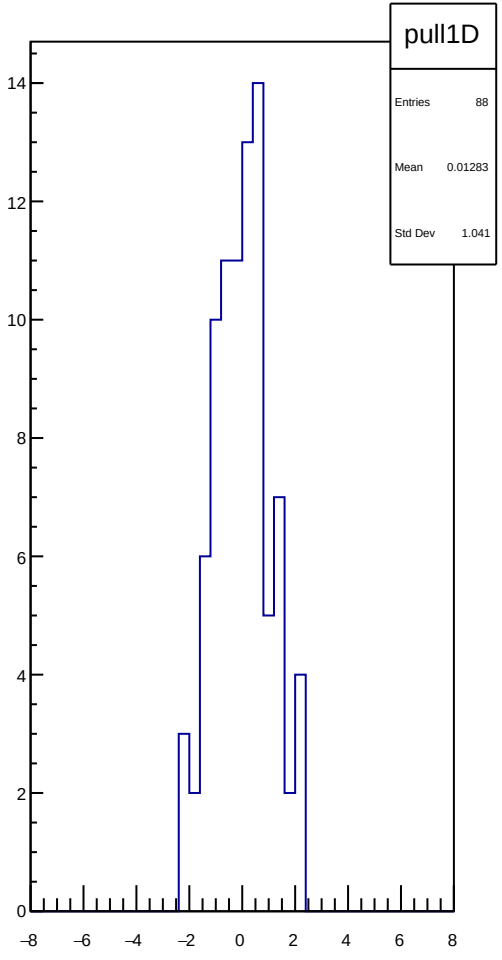

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.06 / 87
p0 1019 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −141.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

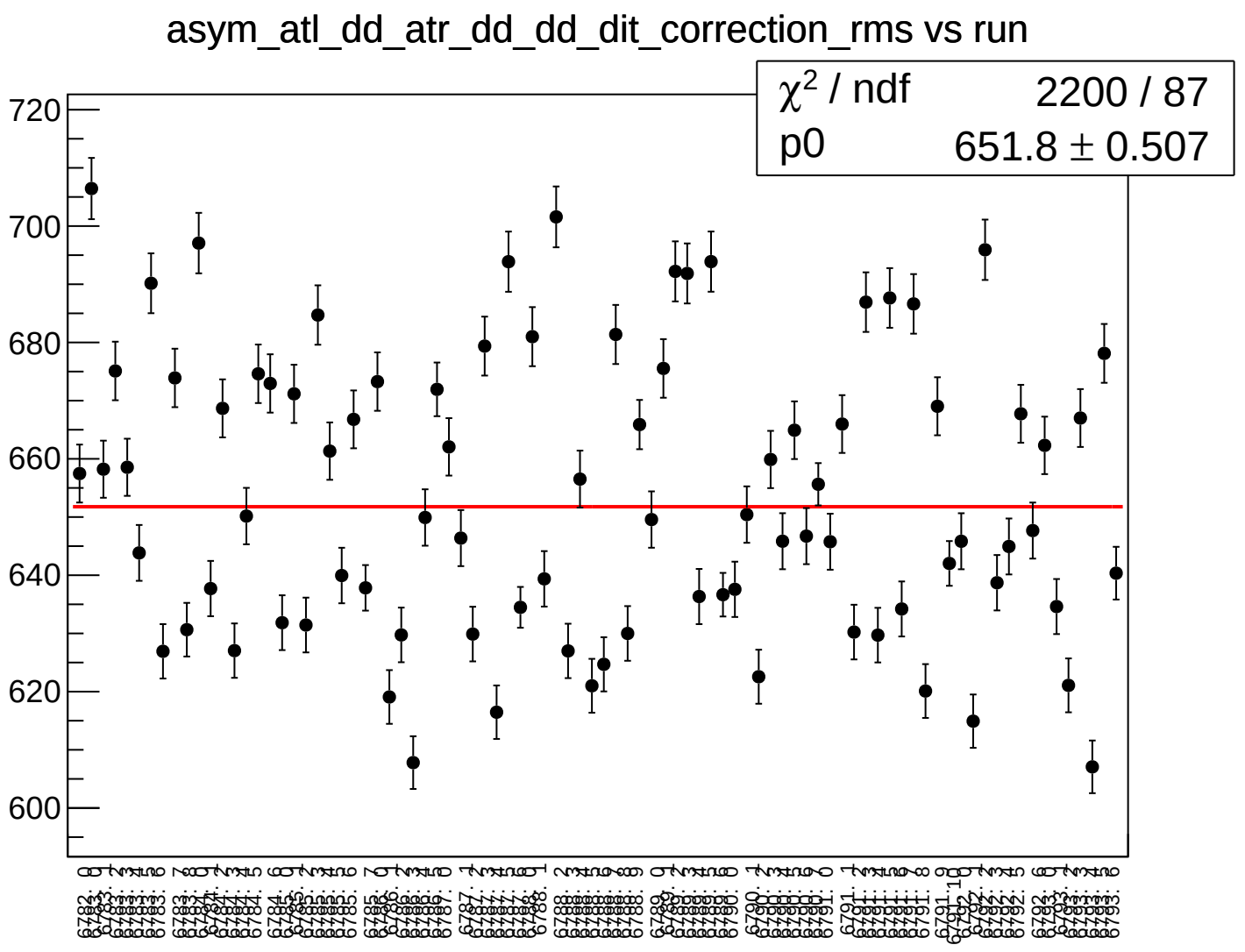

pull1D
Entries 88
Mean −0.01325
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

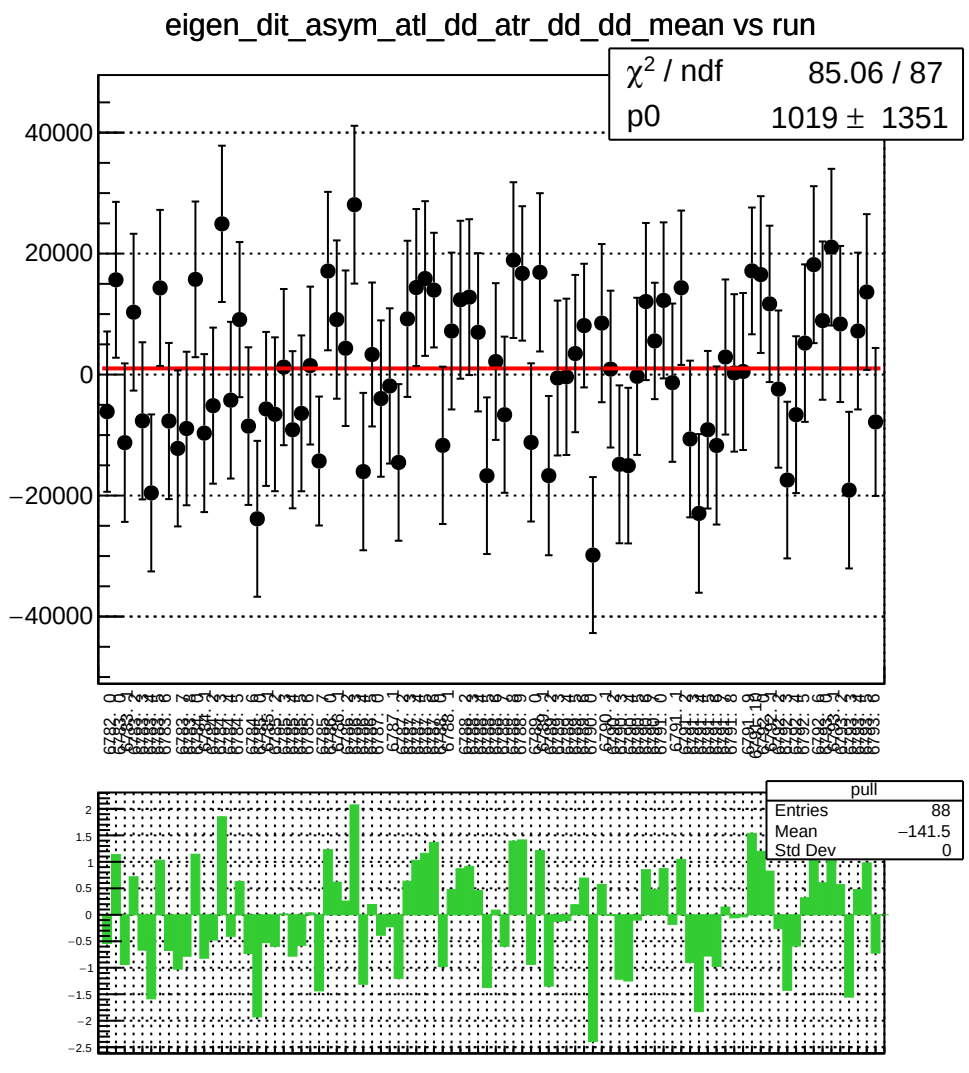
dit_asym_atl_dd_atr_dd_dd_rms vs run

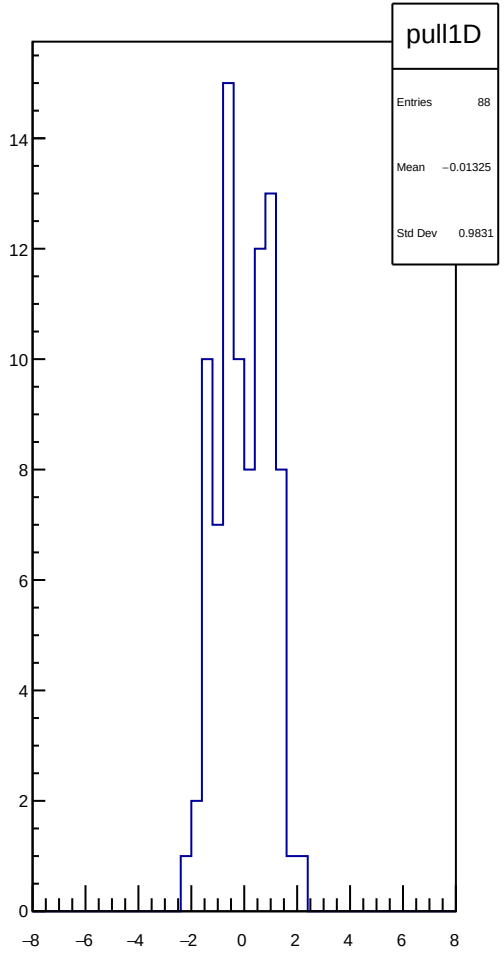


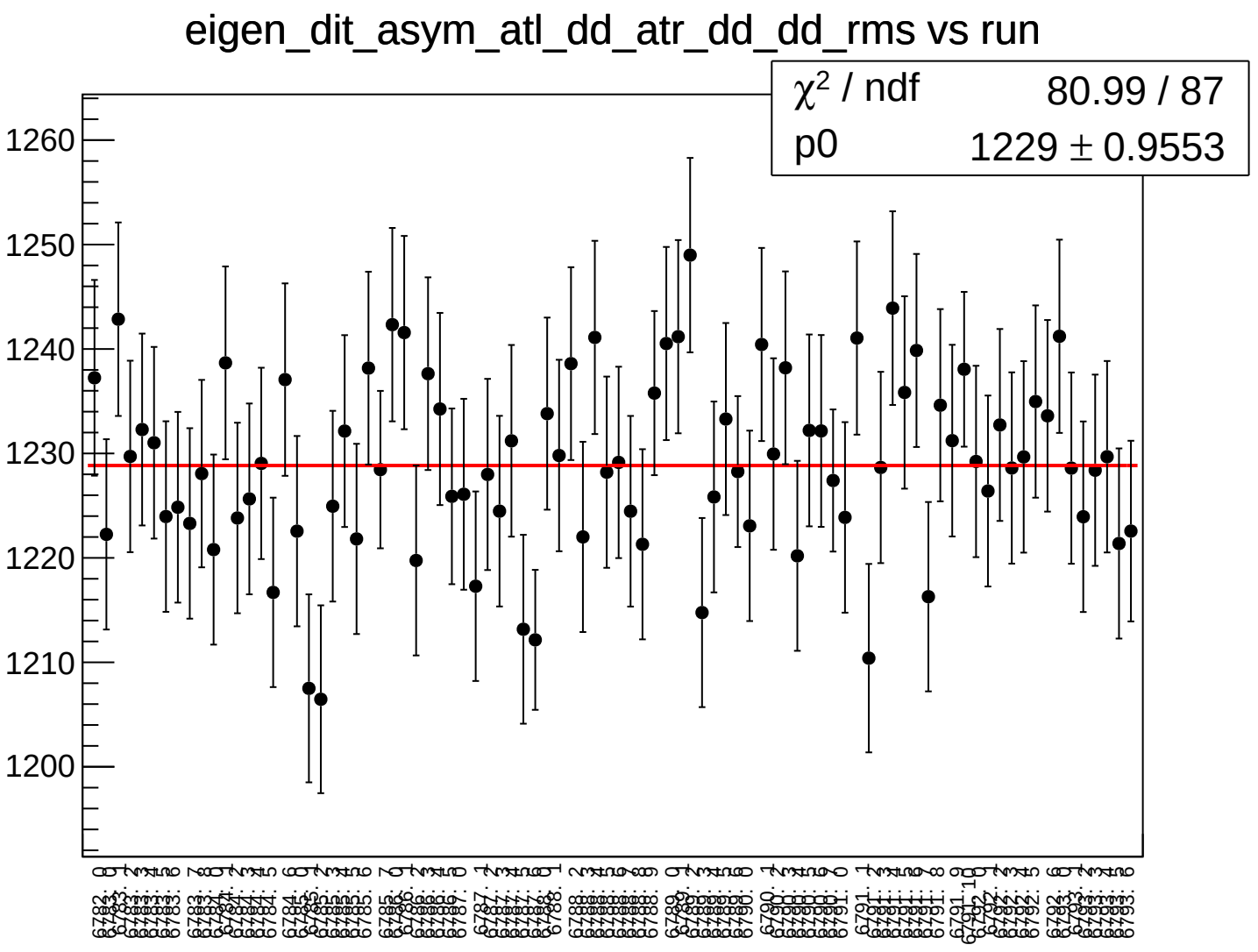

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.34 / 87
p0 2487 ± 717
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −273.5
Std Dev 0
2
1
0
−1
−2

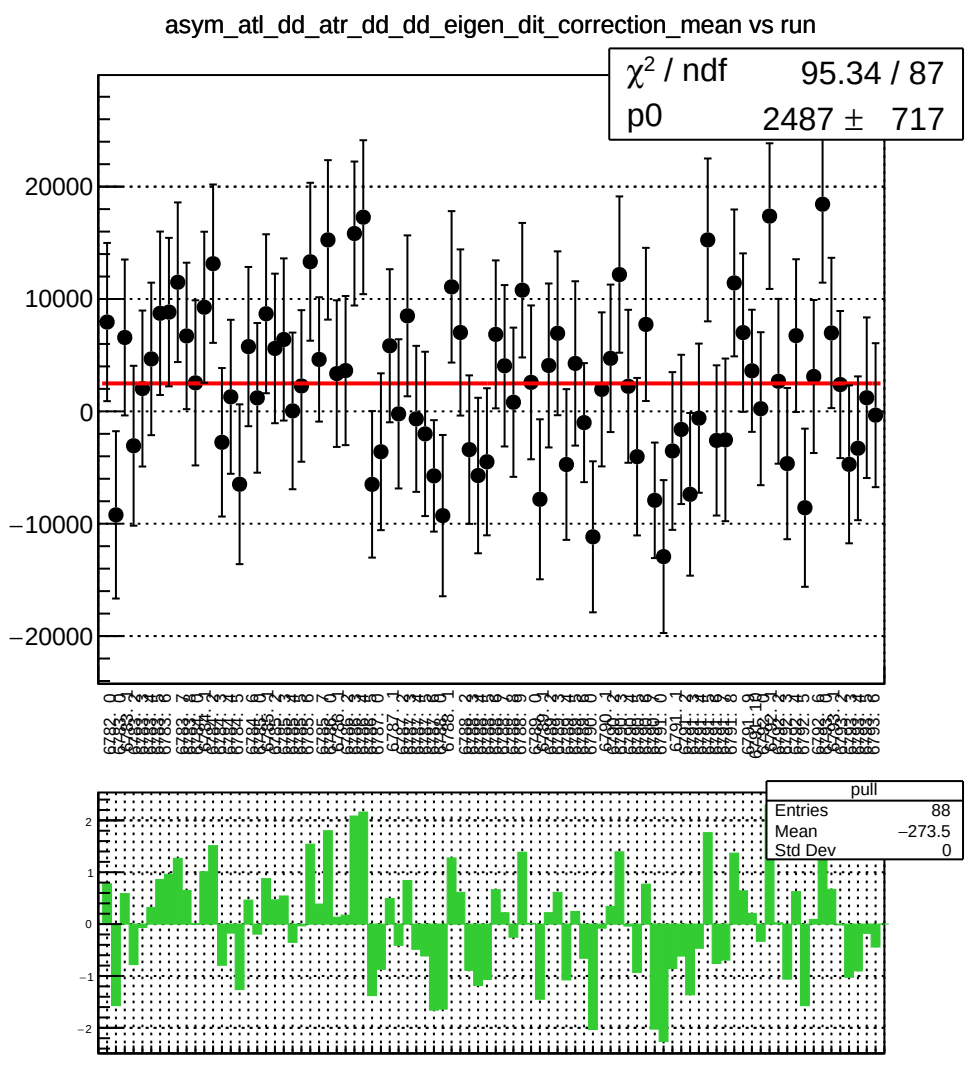

pull1D
Entries 88
Mean 0.01283
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

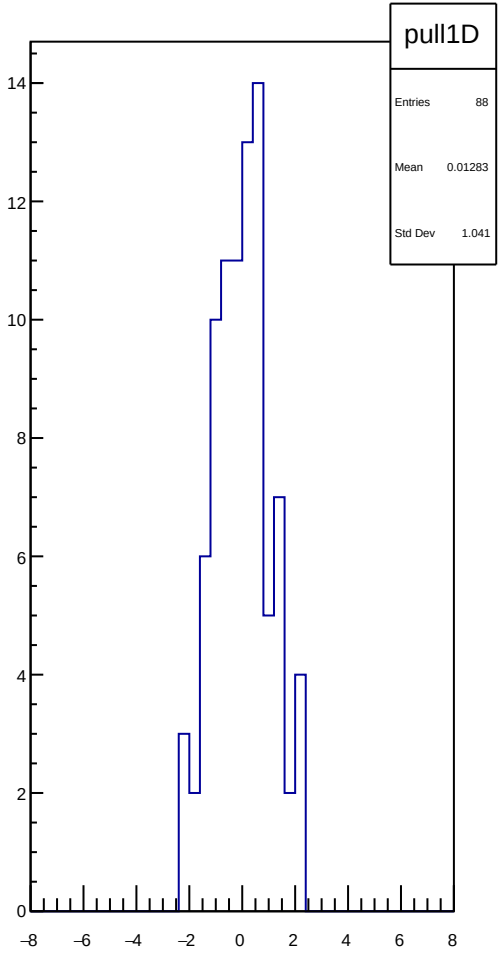

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2200 / 87
p0 651.8 ± 0.507
720
700
680
660
640
620
600

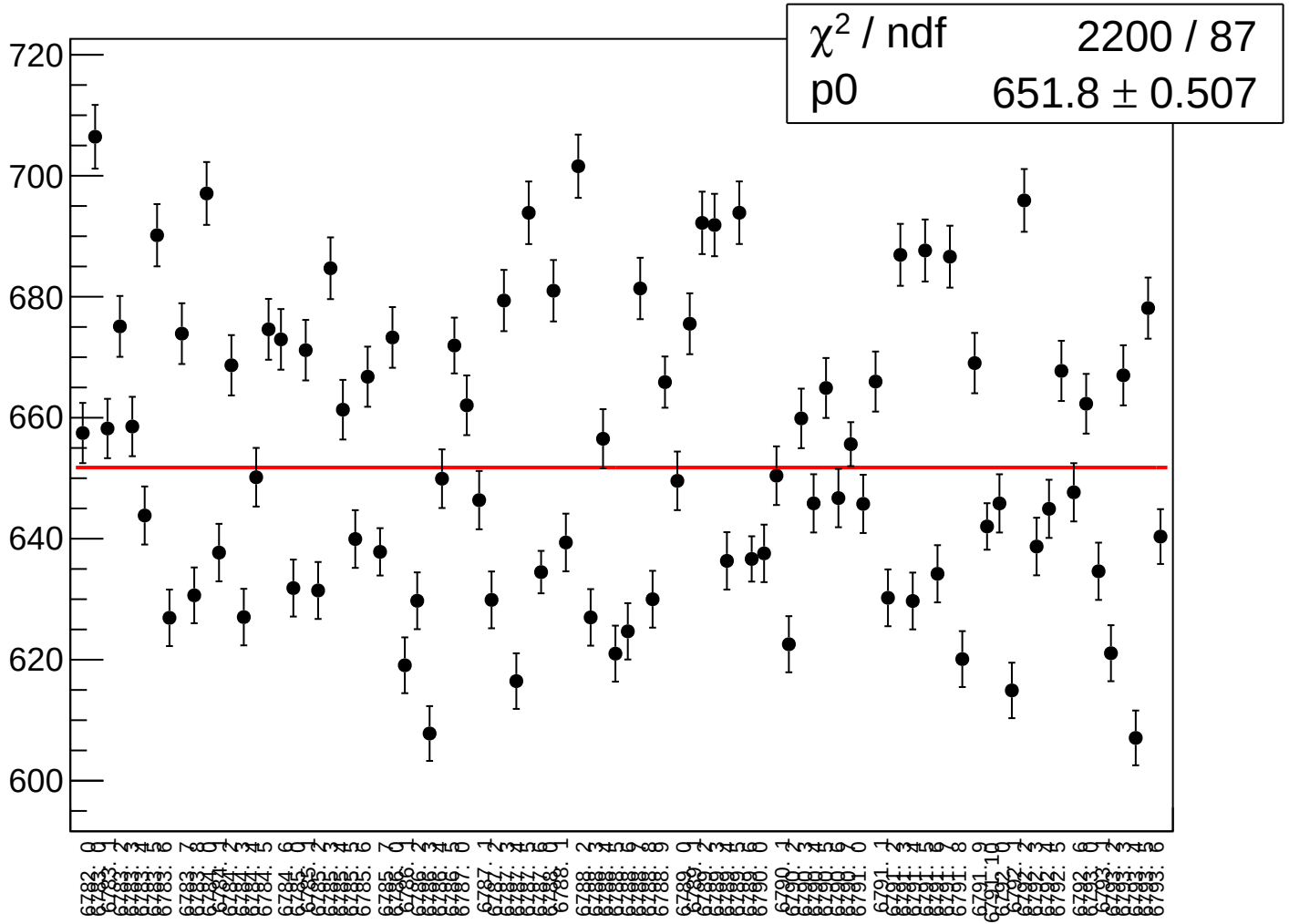

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.06 / 87
p0 1019 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −141.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

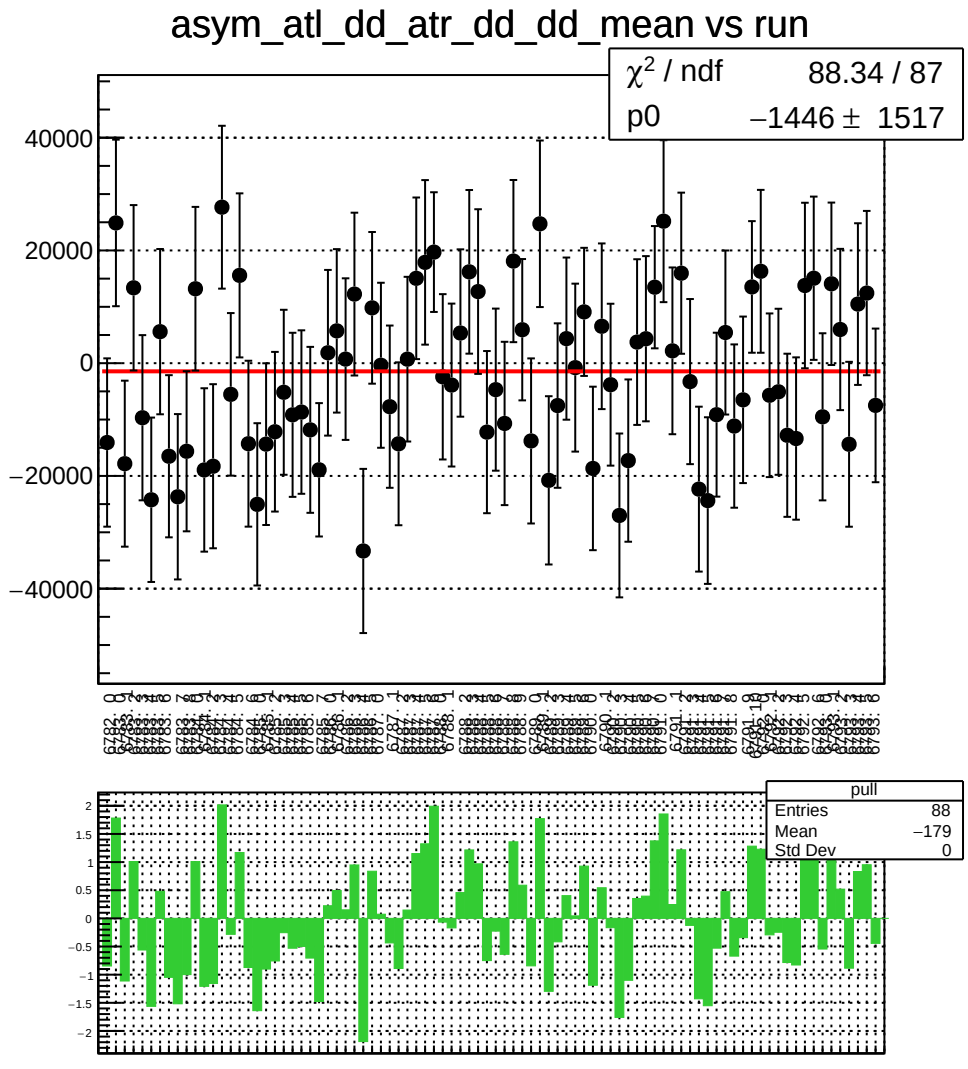

pull1D
Entries 88
Mean −0.01325
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

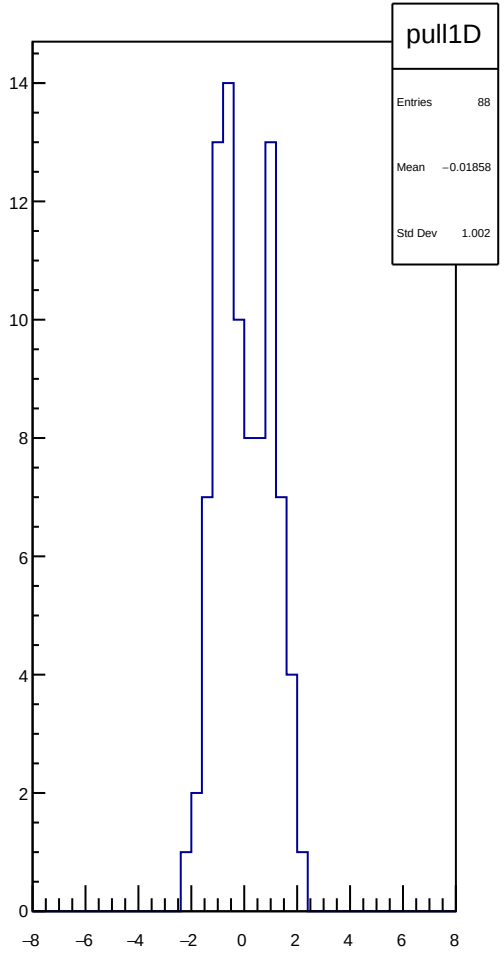

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 80.99 / 87
p0 1229 ± 0.9553
1260
1250
1240
1230
1220
1210
1200

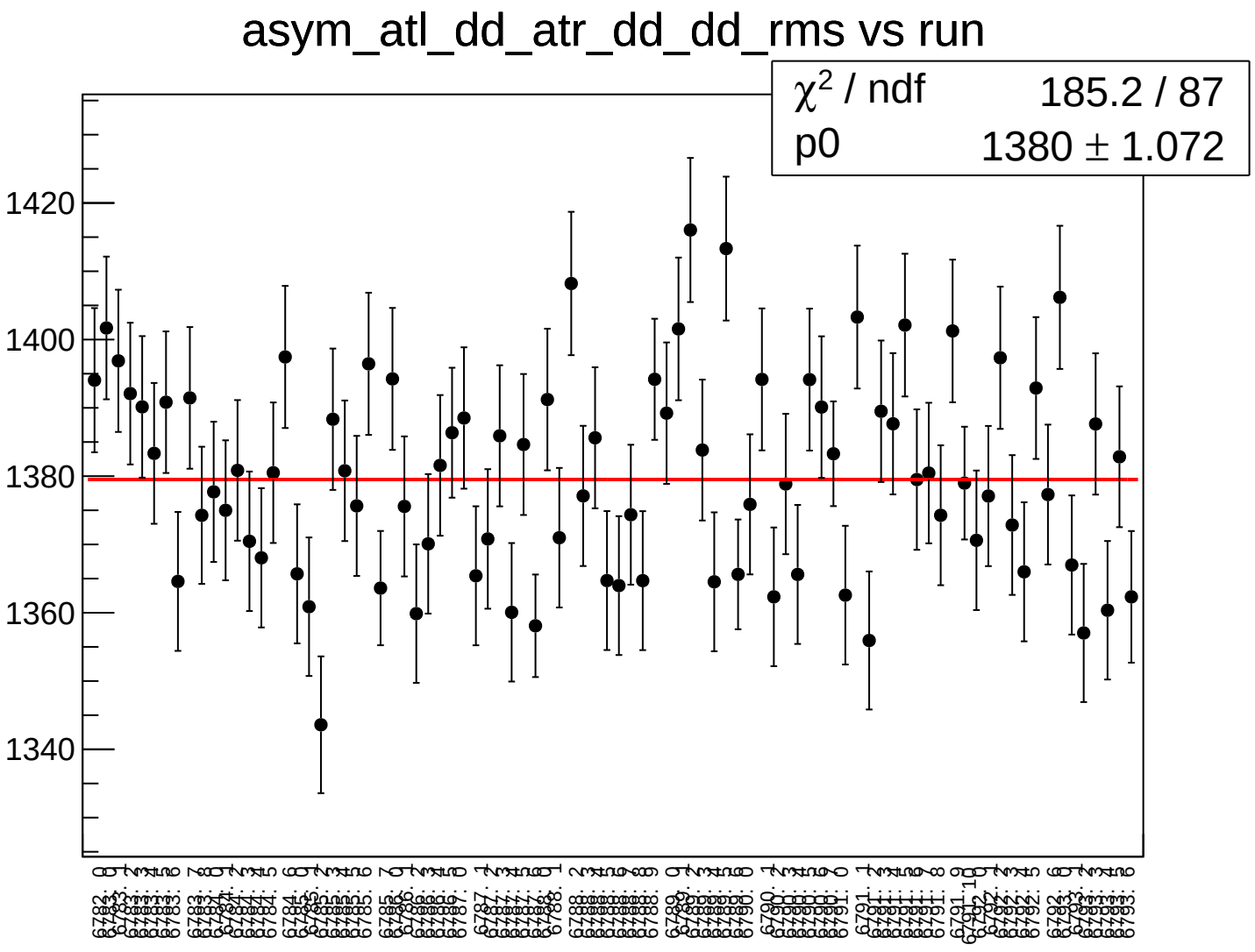

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.34 / 87
p0 2487 ± 717
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −273.5
Std Dev 0
2
1
0
−1
−2

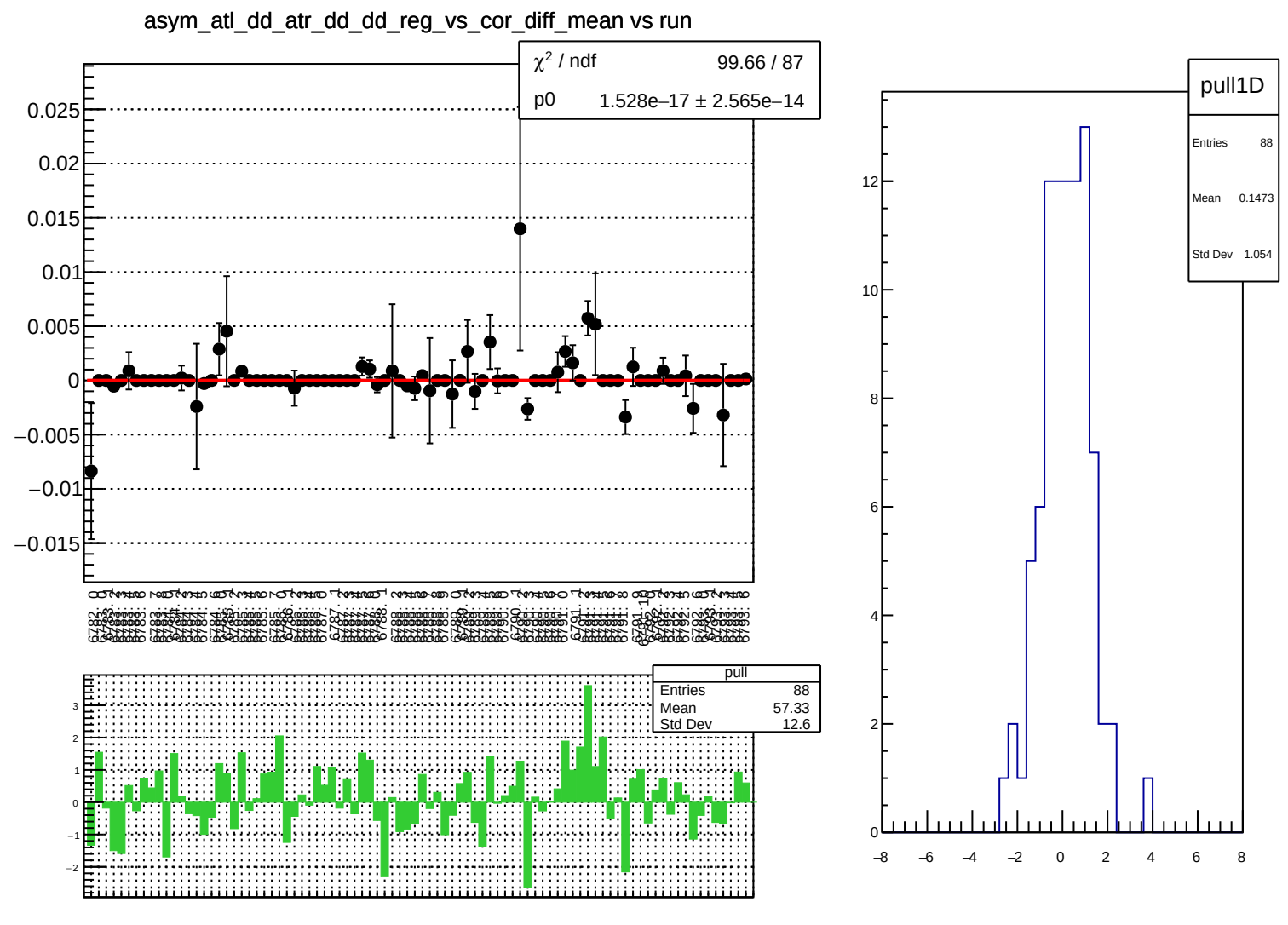

pull1D
Entries 88
Mean 0.01283
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

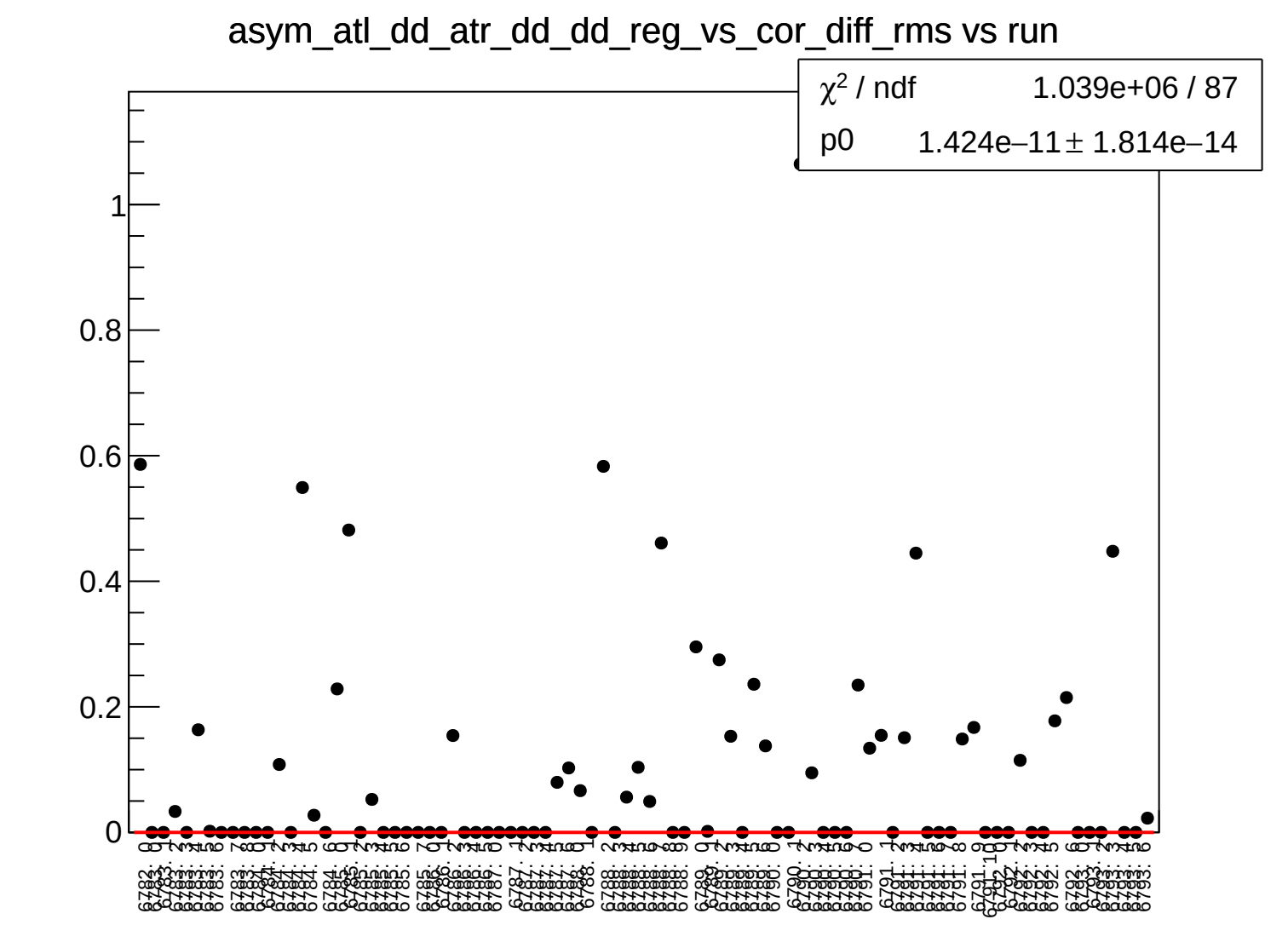

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2200 / 87
p0 651.8 ± 0.507
720
700
680
660
640
620
600

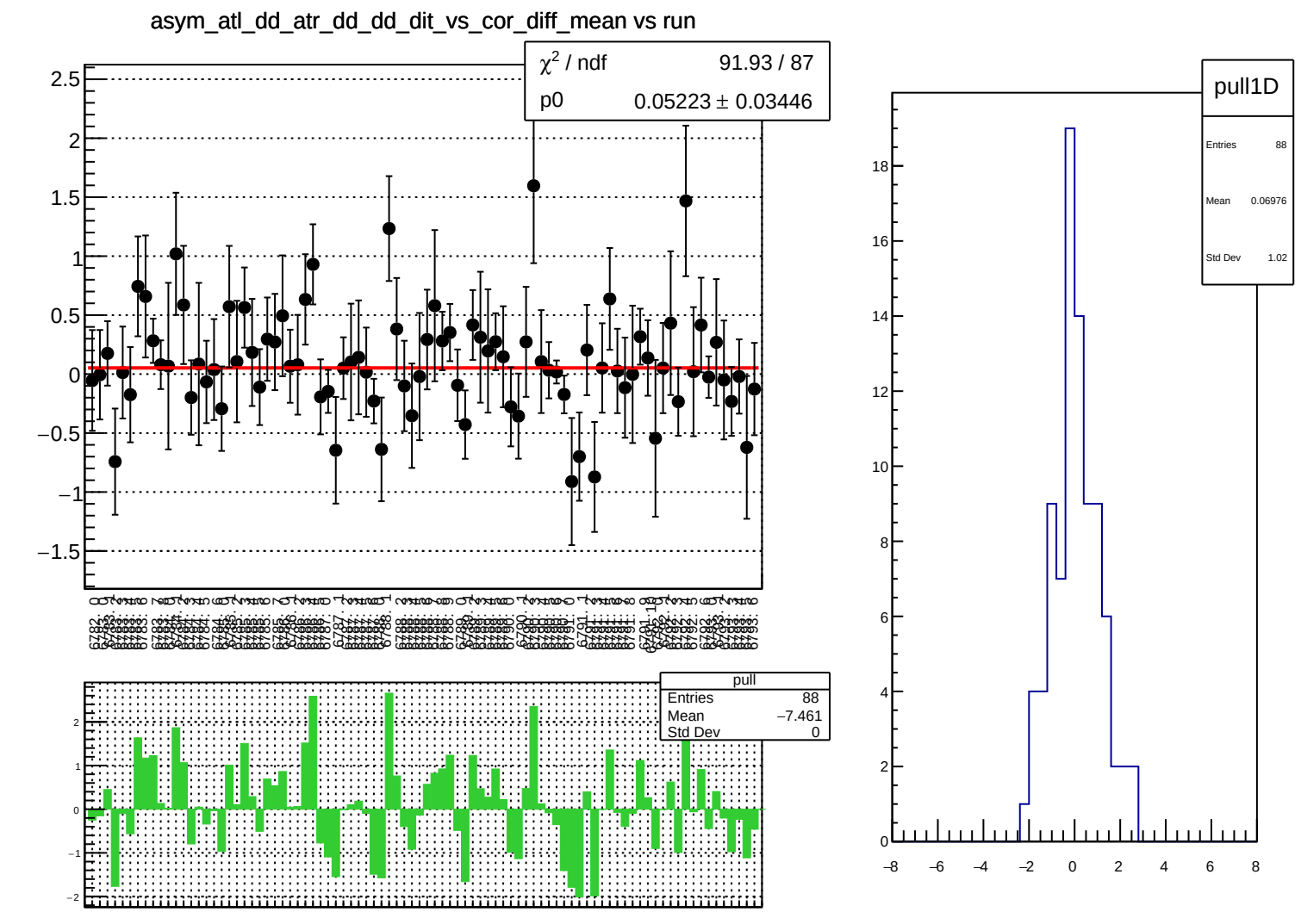

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 88.34 / 87
p0 −1446 ± 1517
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −179
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

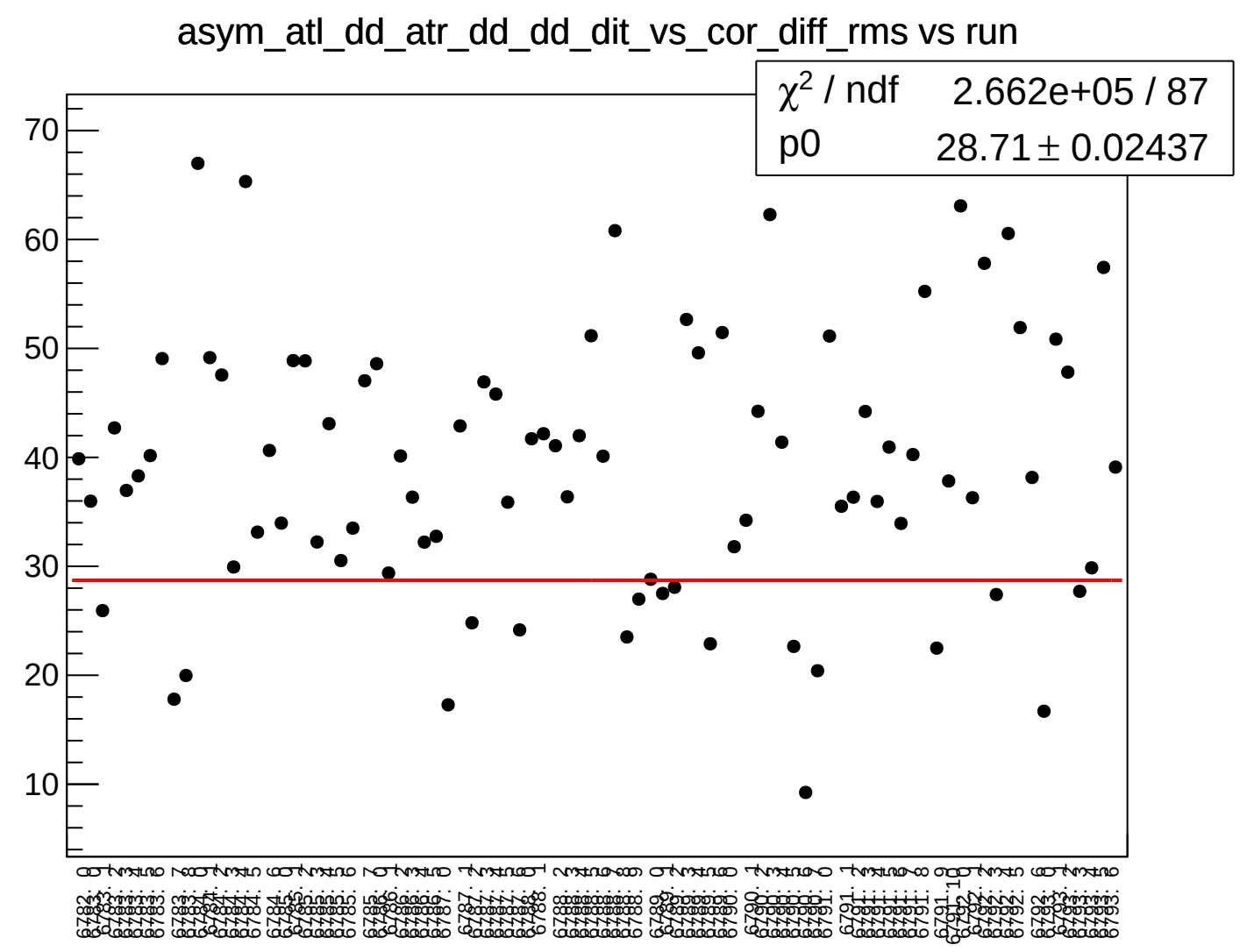

pull1D
Entries 88
Mean −0.01858
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

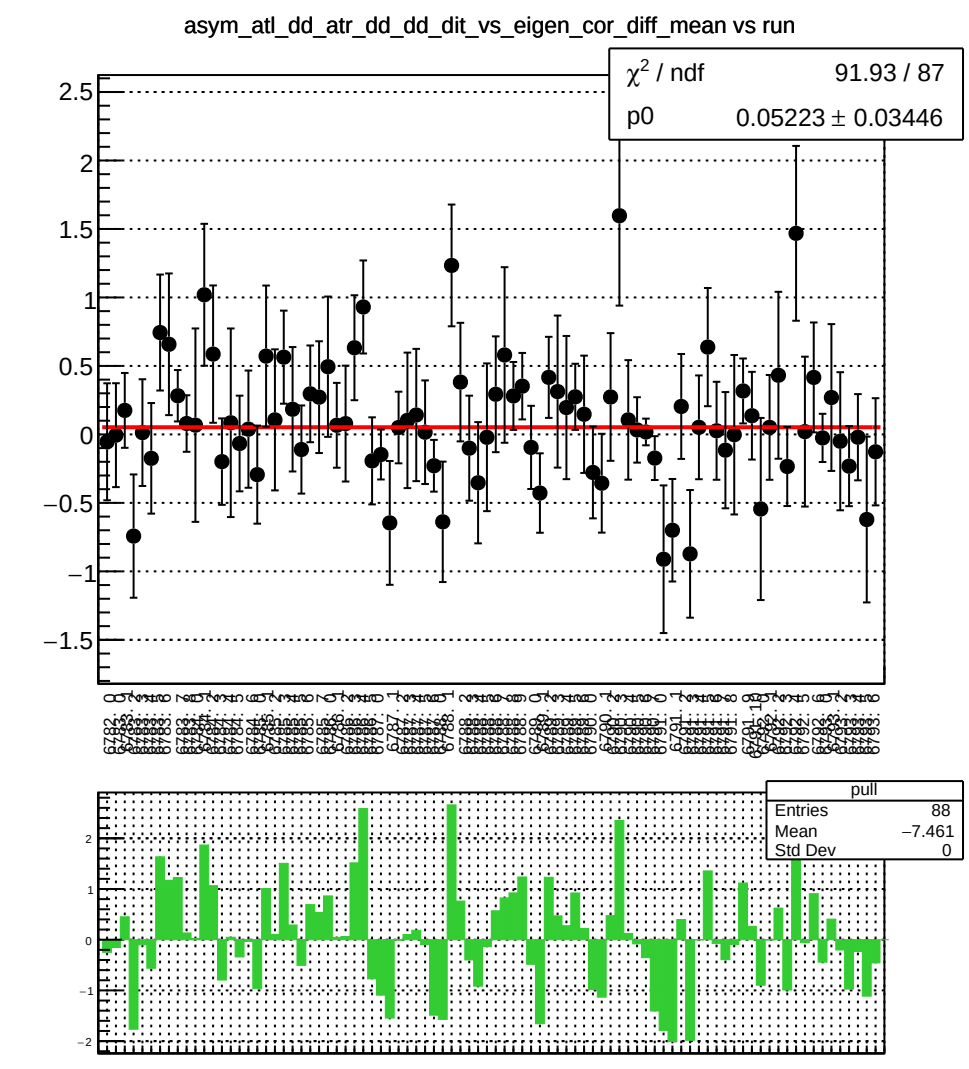

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 185.2 / 87
p0 1380 ± 1.072
1420
1400
1380
1360
1340

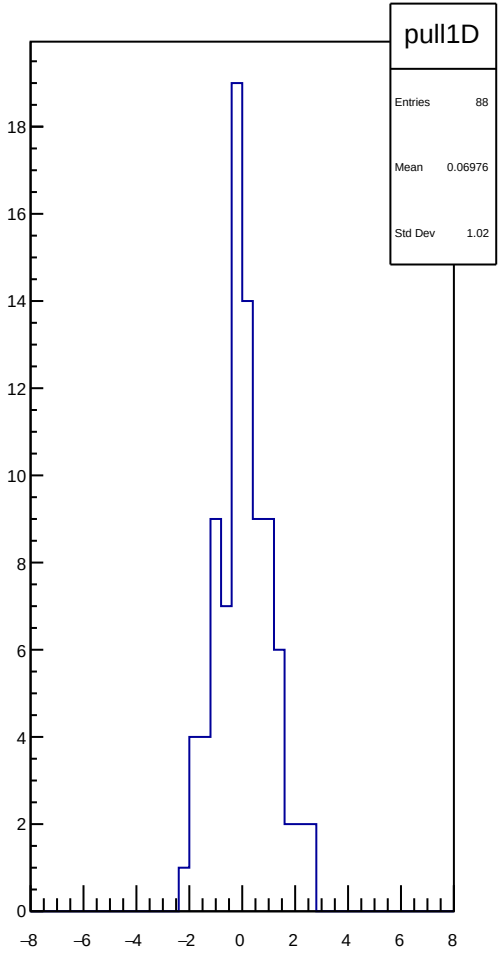

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.66 / 87
p0 1.528e−17 ± 2.565e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 57.33
Std Dev 12.6
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1473
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

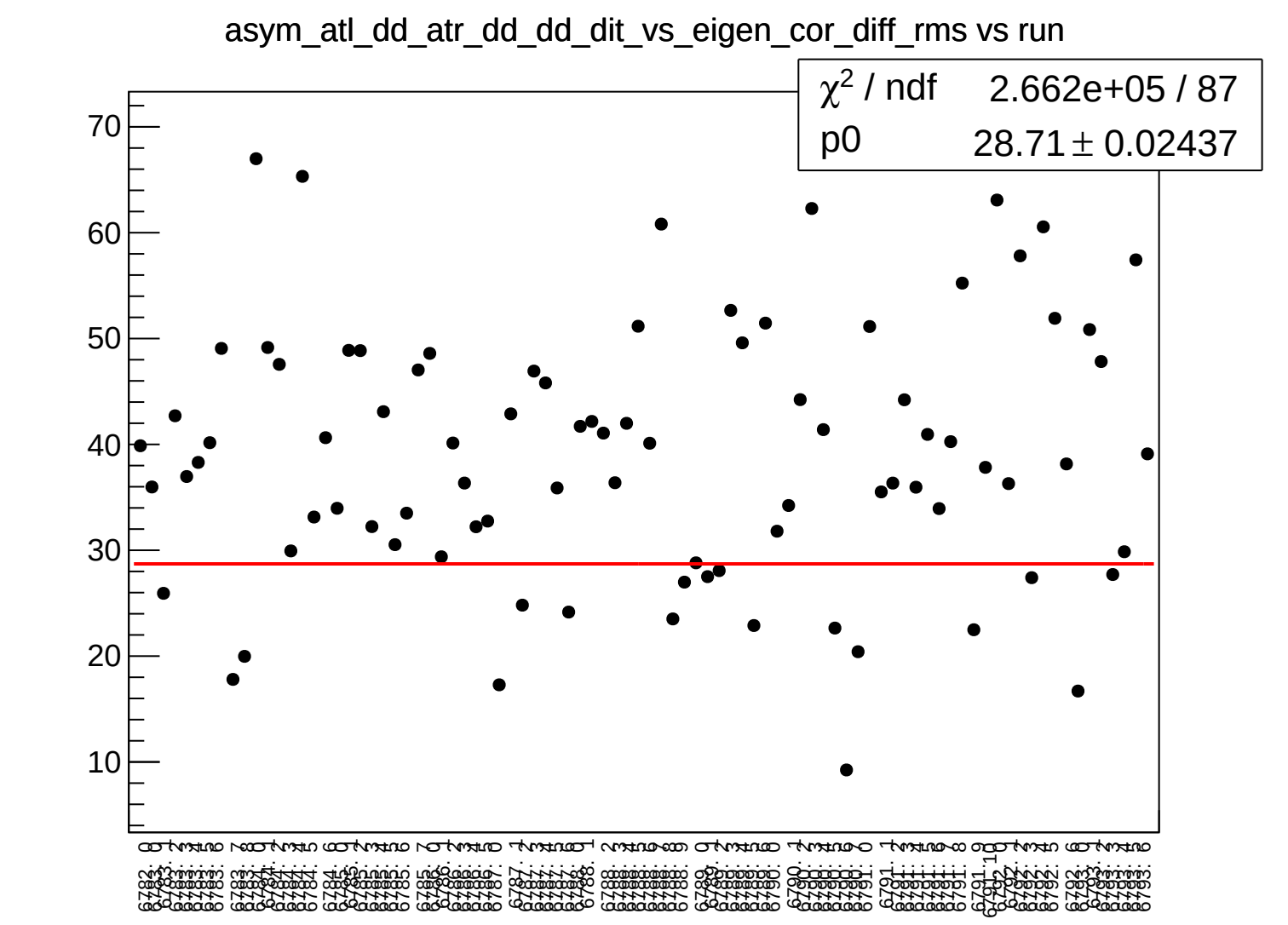

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 87
p0 1.424e−11 ± 1.814e−14
1
0.8
0.6
0.4
0.2
0

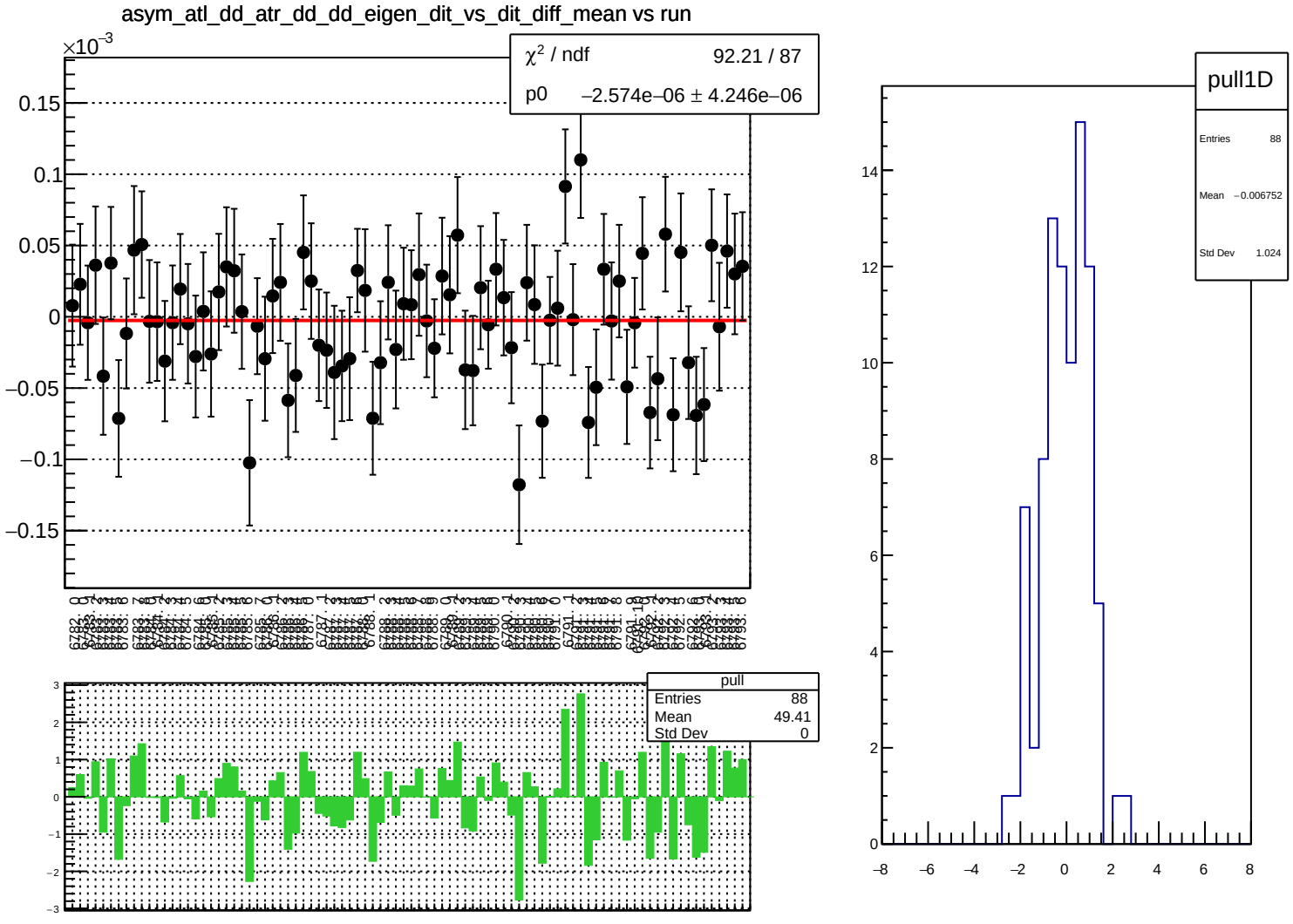

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05223 ± 0.03446
pull
Entries 88
Mean −7.461
Std Dev 0
pull1D
Entries 88
Mean 0.06976
Std Dev 1.02

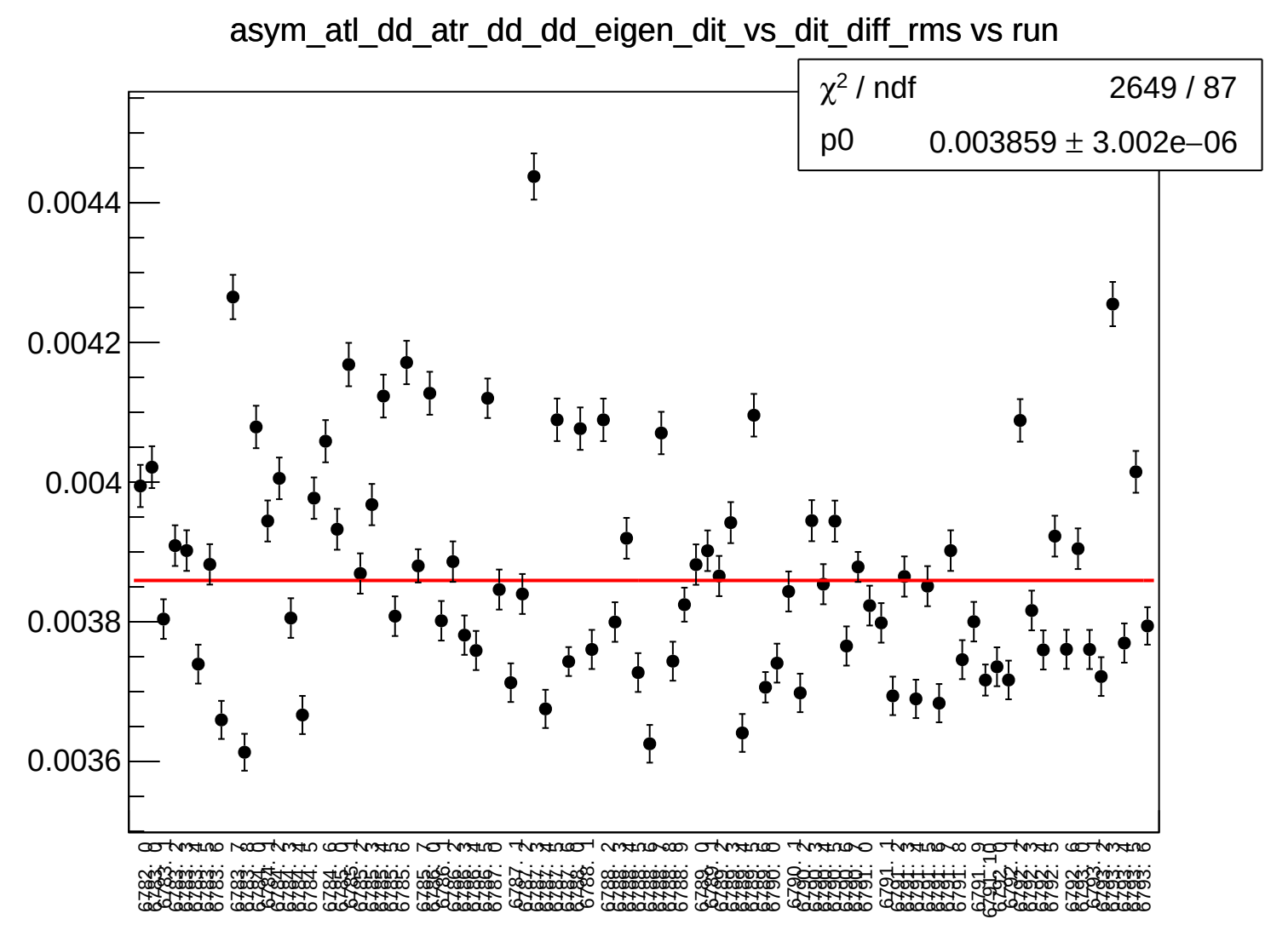

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.662e+05 / 87
p0 28.71 ± 0.02437
70
60
50
40
30
20
10

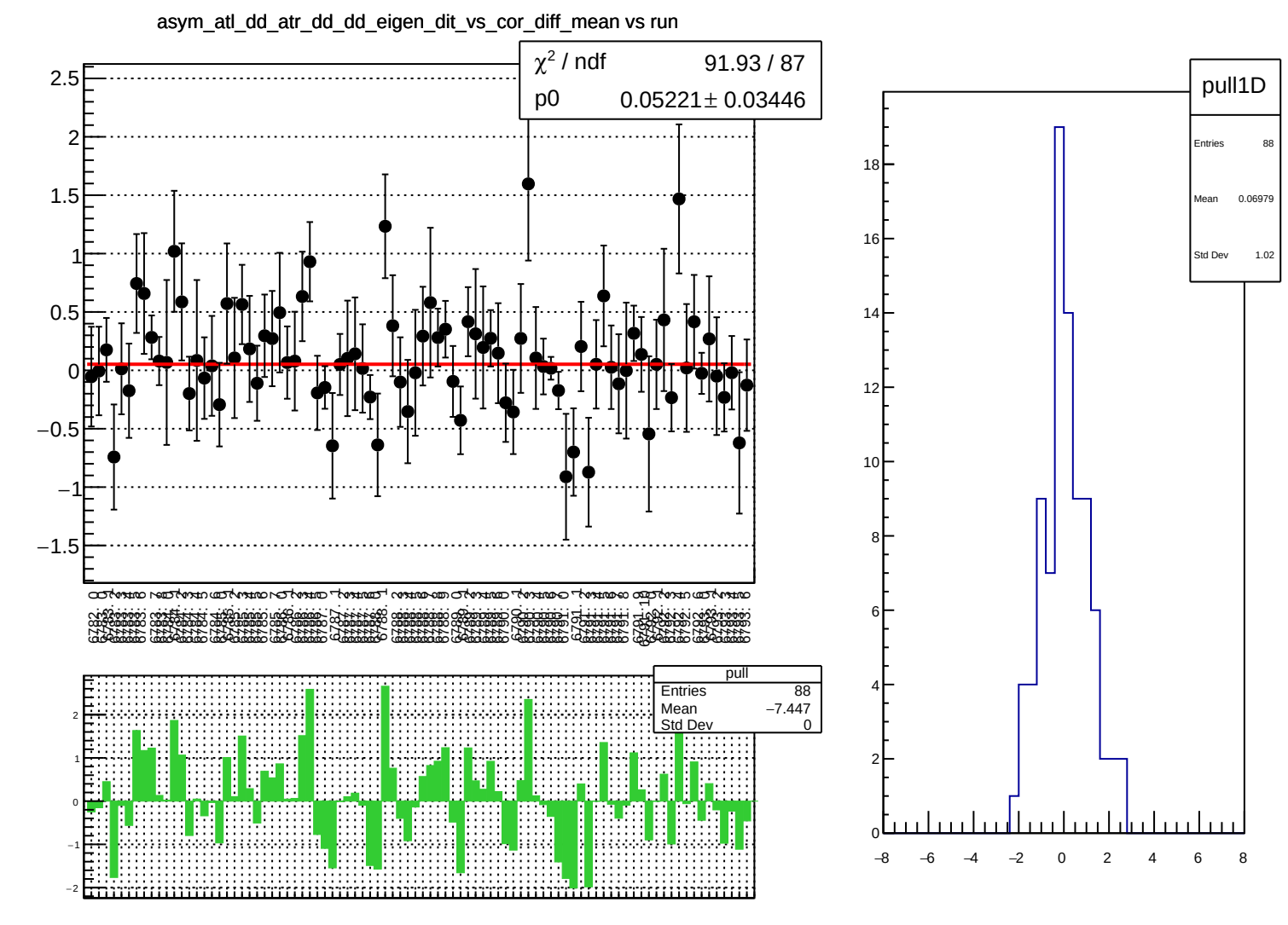

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05223 ± 0.03446
pull
Entries 88
Mean −7.461
Std Dev 0

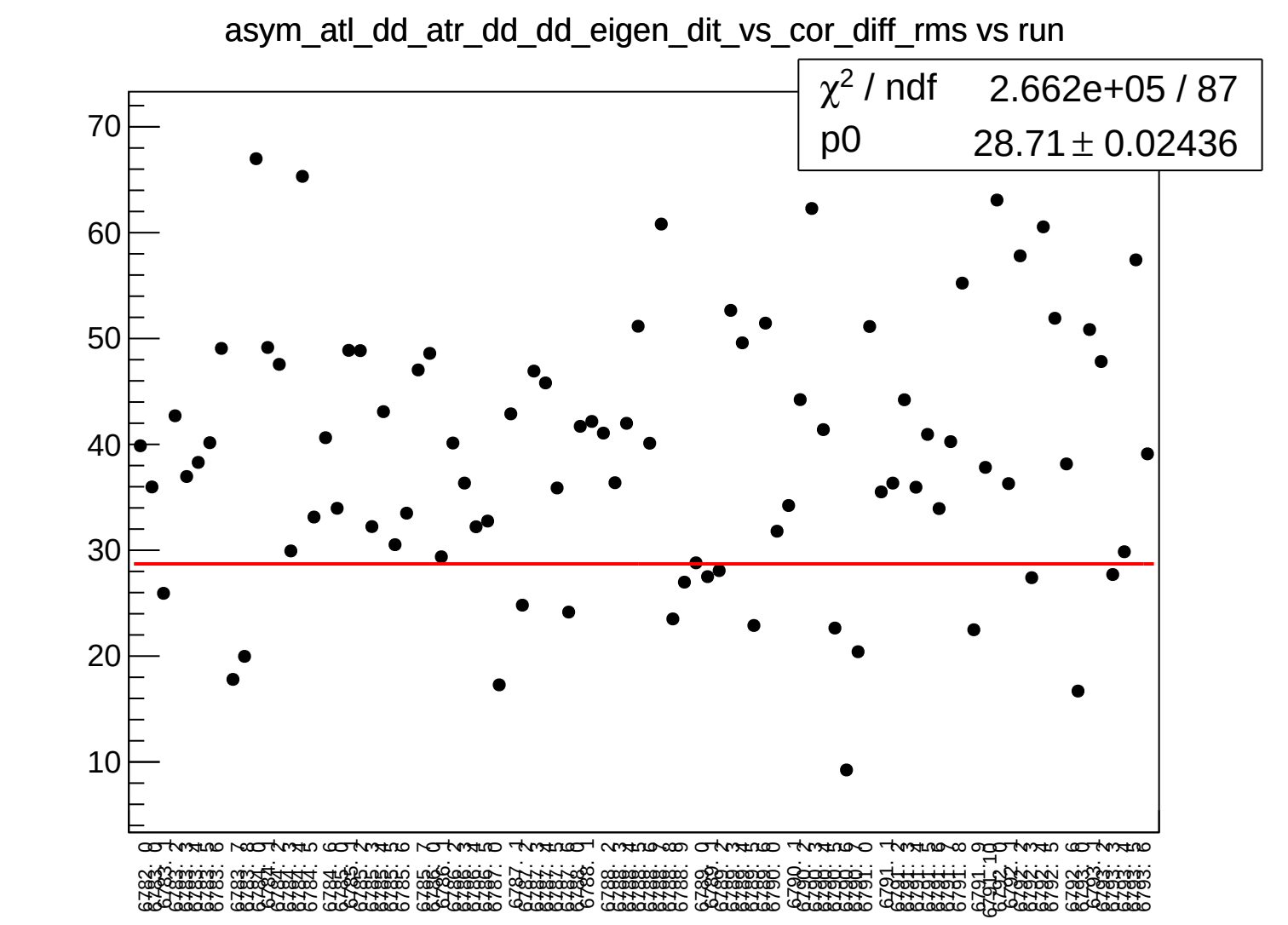

pull1D
Entries 88
Mean 0.06976
Std Dev 1.02

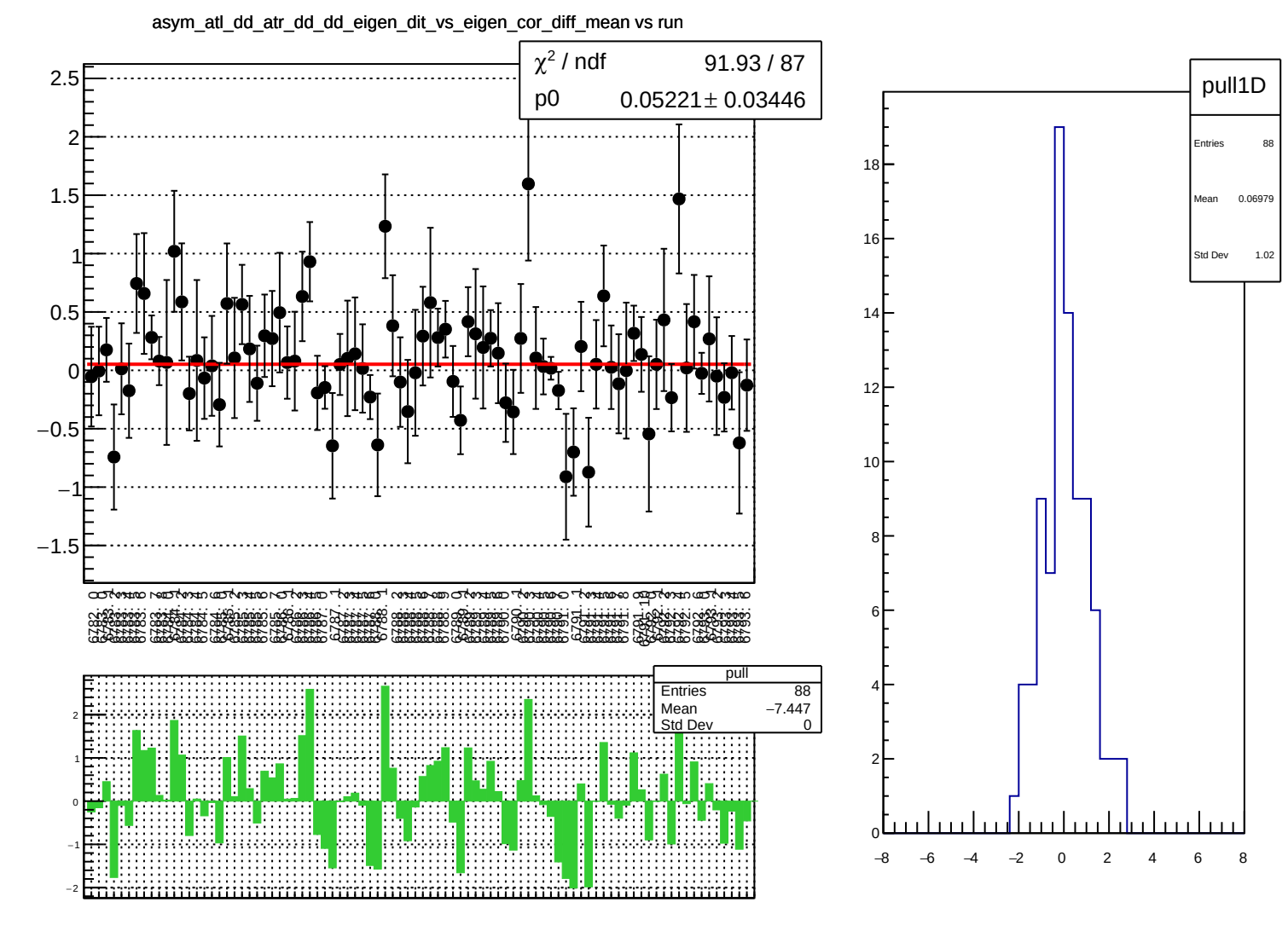

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.662e+05 / 87
p0 28.71 ± 0.02437
70
60
50
40
30
20
10

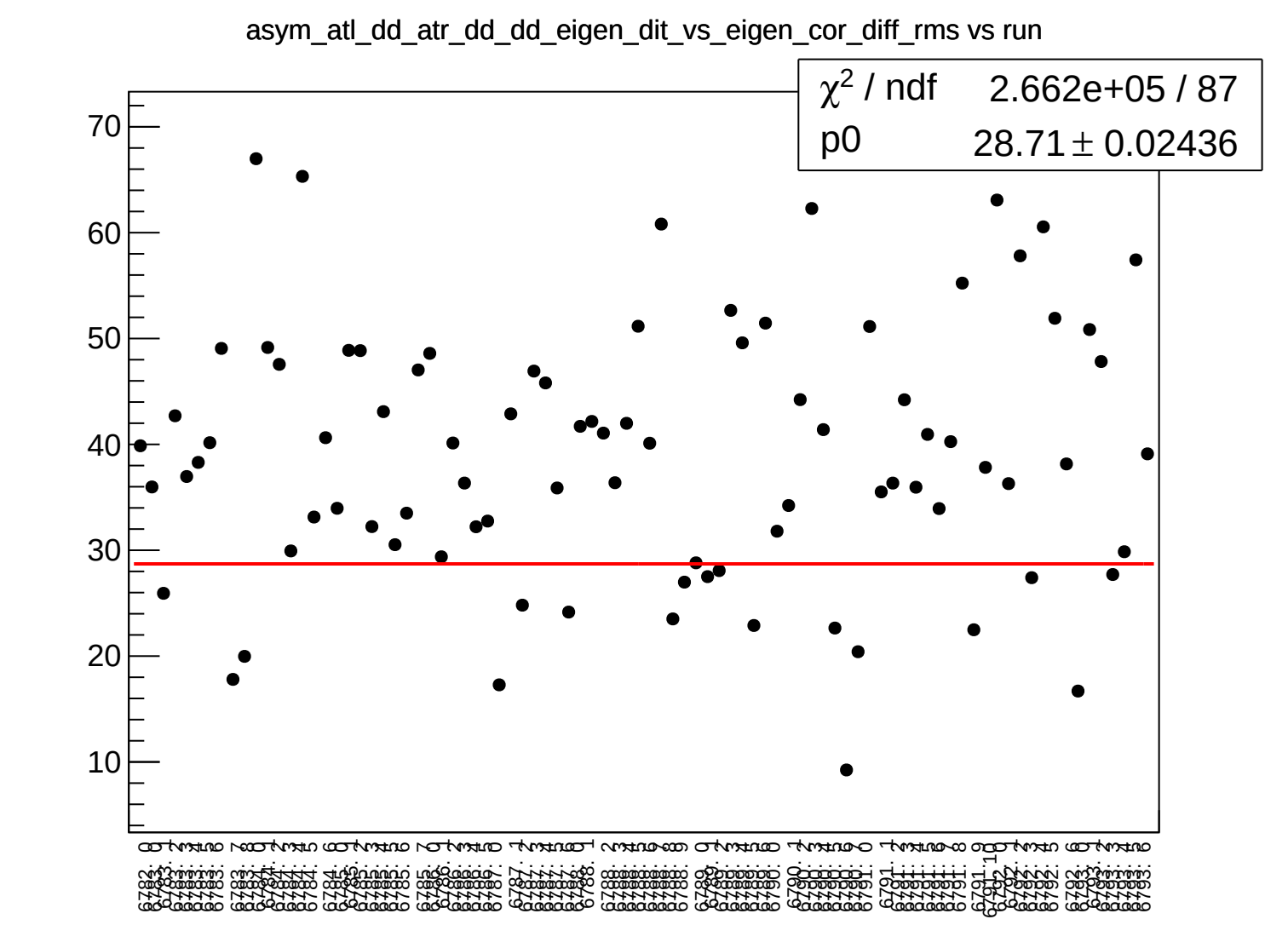

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.21 / 87
p0 −2.574e−06 ± 4.246e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 49.41
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.006752
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

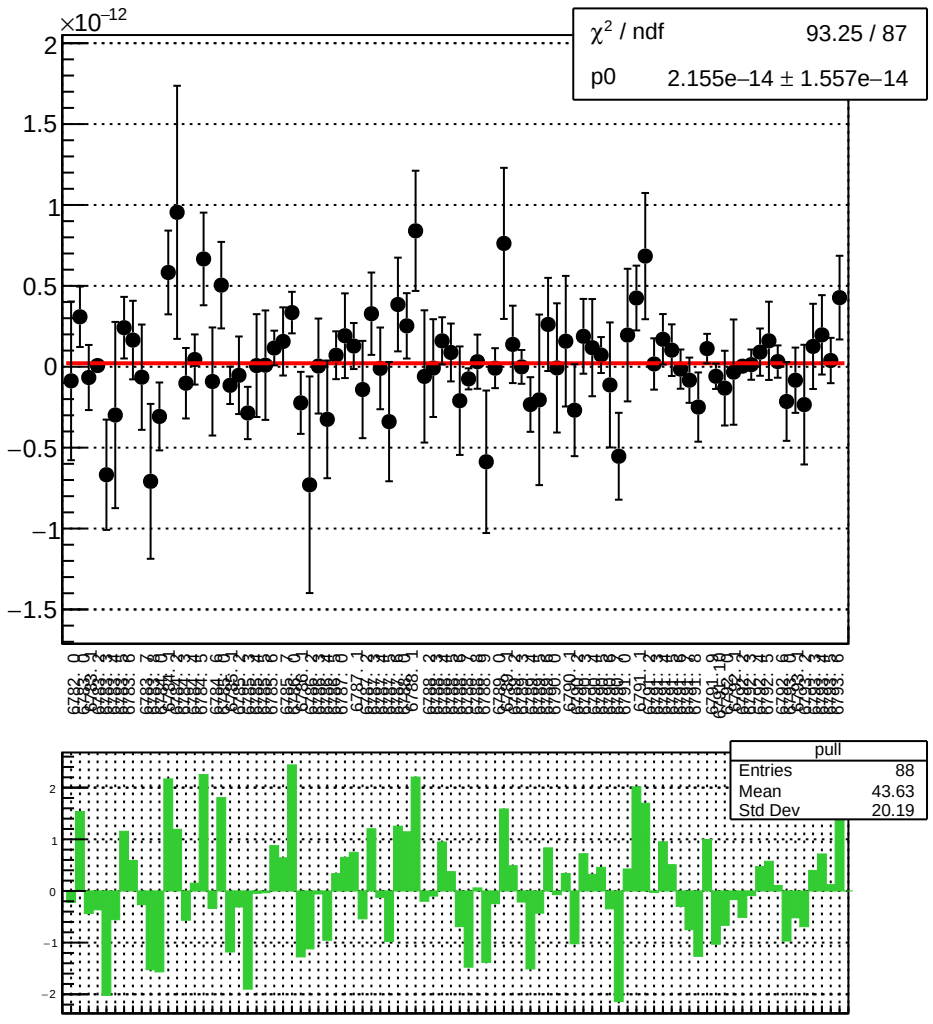

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2649 / 87
p0 0.003859 ± 3.002e−06
0.0044
0.0042
0.004
0.0038
0.0036

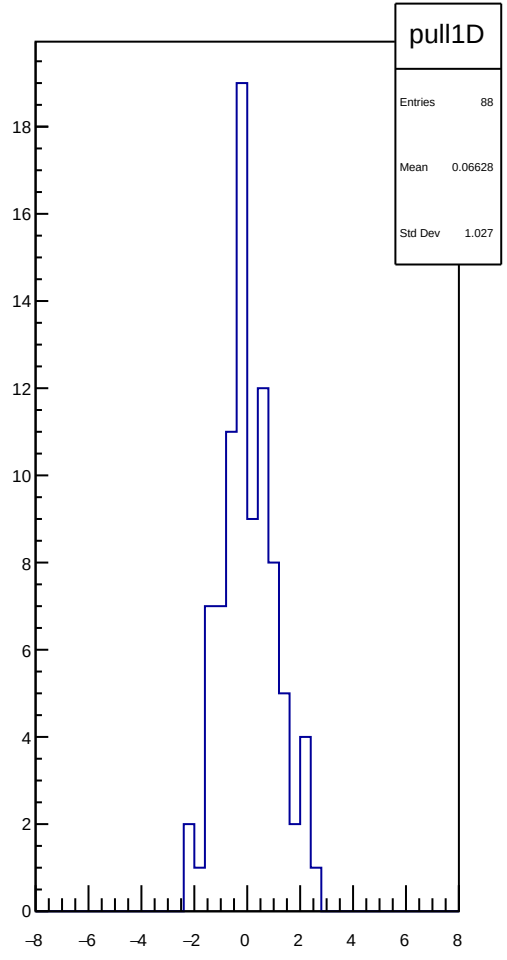

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05221 ± 0.03446
pull
Entries 88
Mean −7.447
Std Dev 0
pull1D
Entries 88
Mean 0.06979
Std Dev 1.02

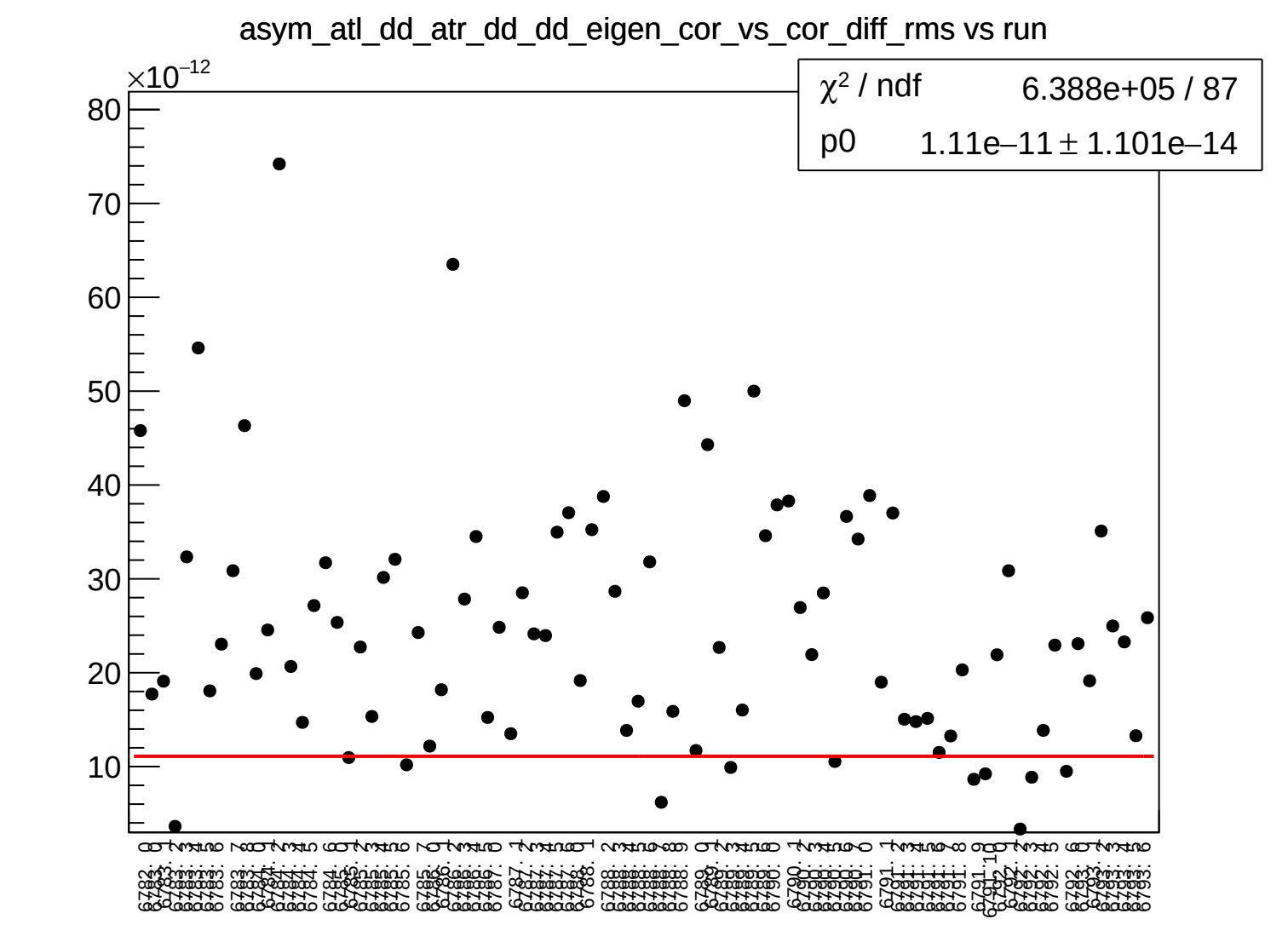

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.662e+05 / 87
p0 28.71 ± 0.02436
70
60
50
40
30
20
10

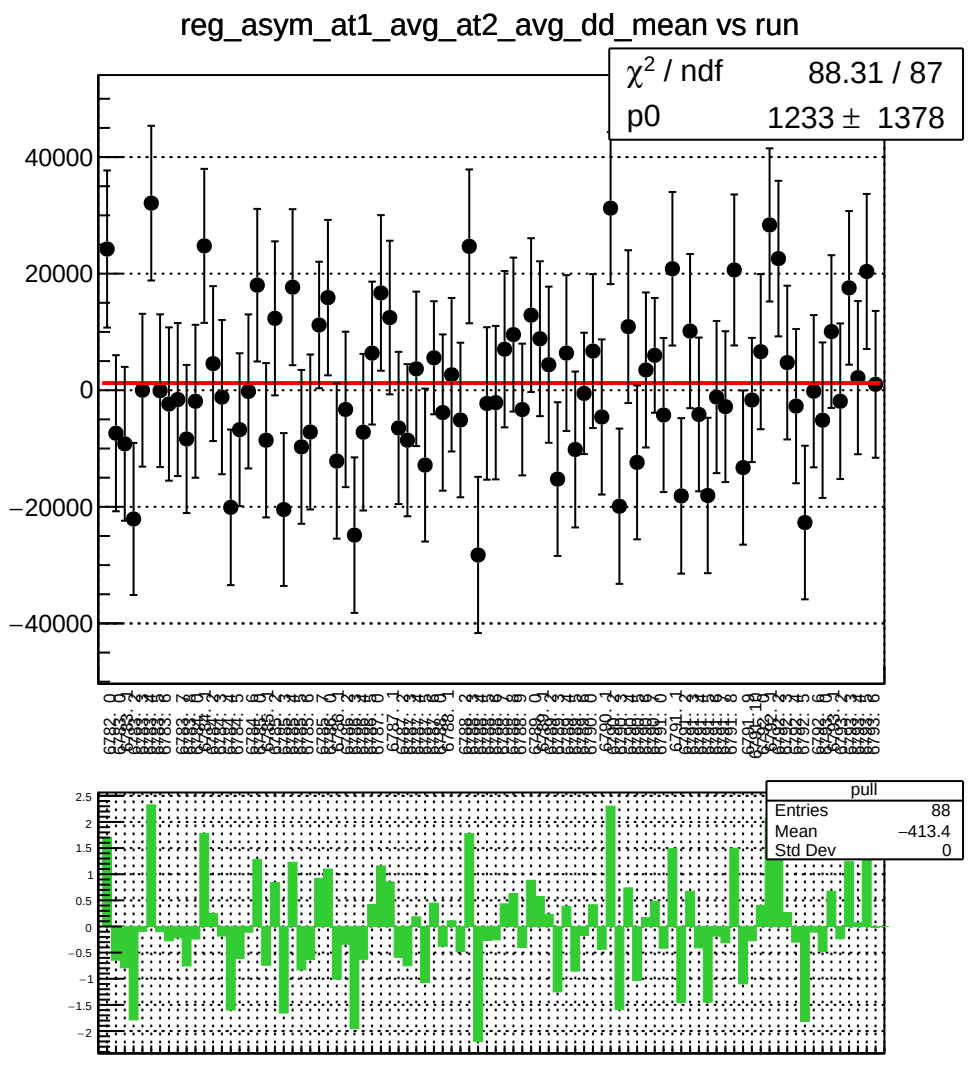

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05221 ± 0.03446
pull
Entries 88
Mean −7.447
Std Dev 0
pull1D
Entries 88
Mean 0.06979
Std Dev 1.02

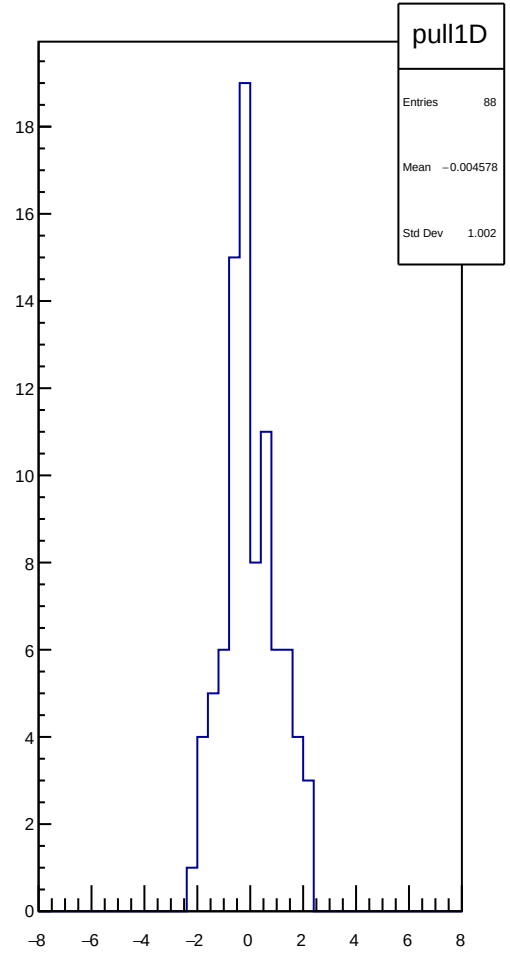

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.662e+05 / 87
p0 28.71 ± 0.02436
70
60
50
40
30
20
10

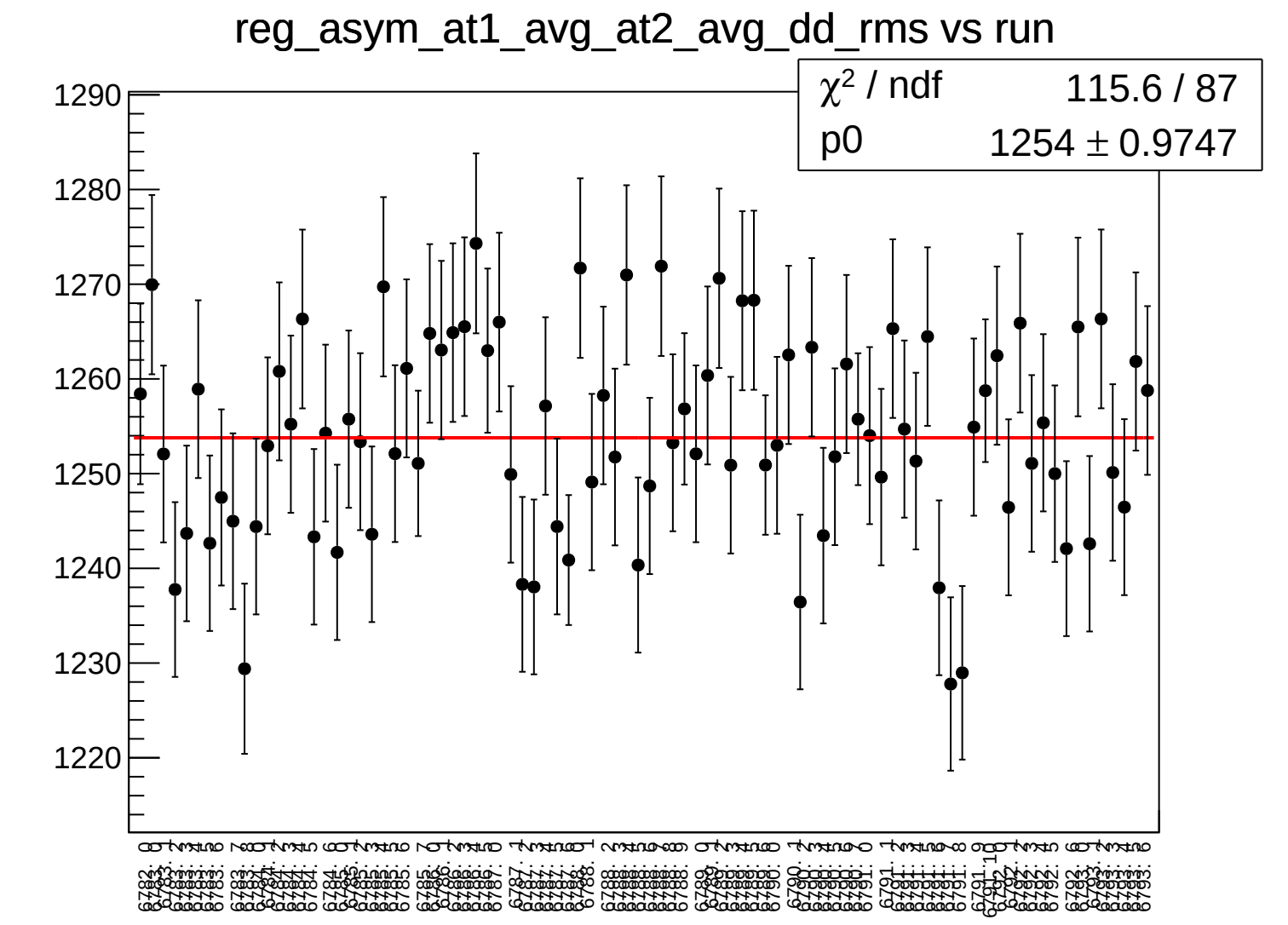

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.25 / 87
p0 2.155e−14 ± 1.557e−14
pull
Entries 88
Mean 43.63
Std Dev 20.19

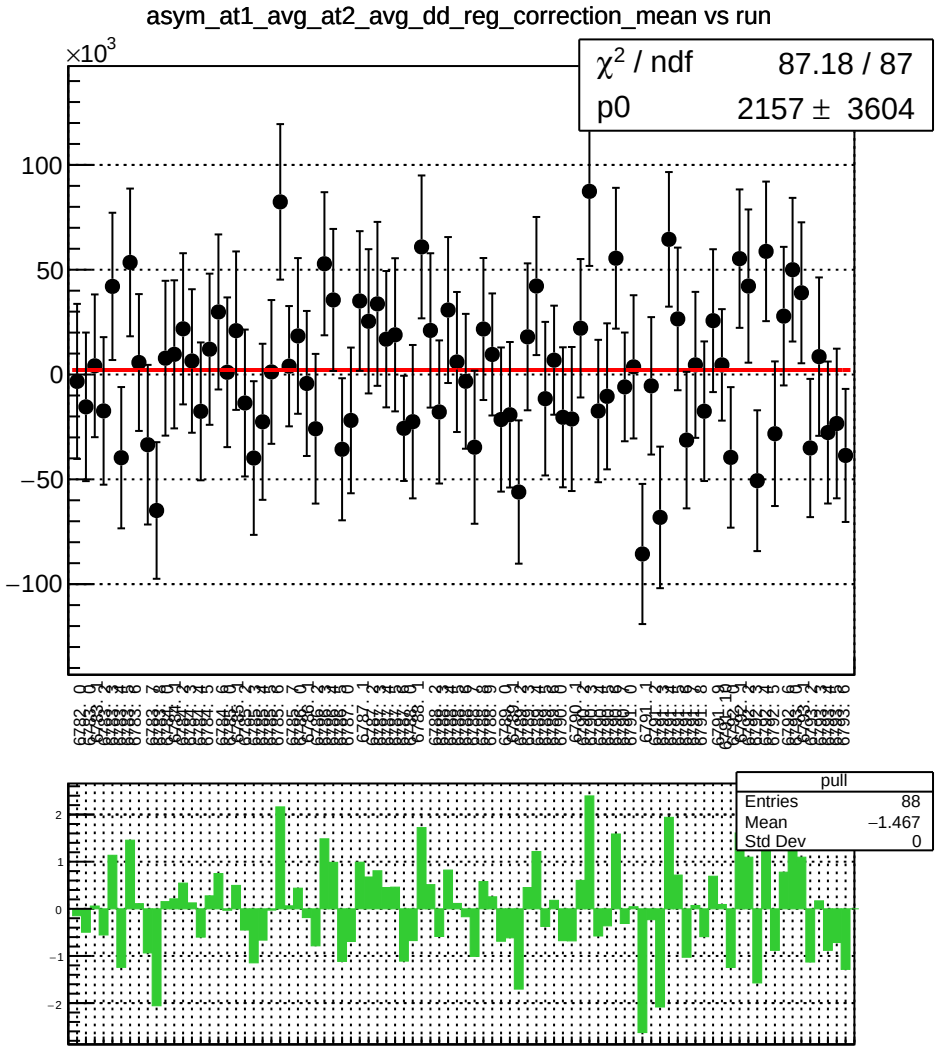

pull1D
Entries 88
Mean 0.06628
Std Dev 1.027

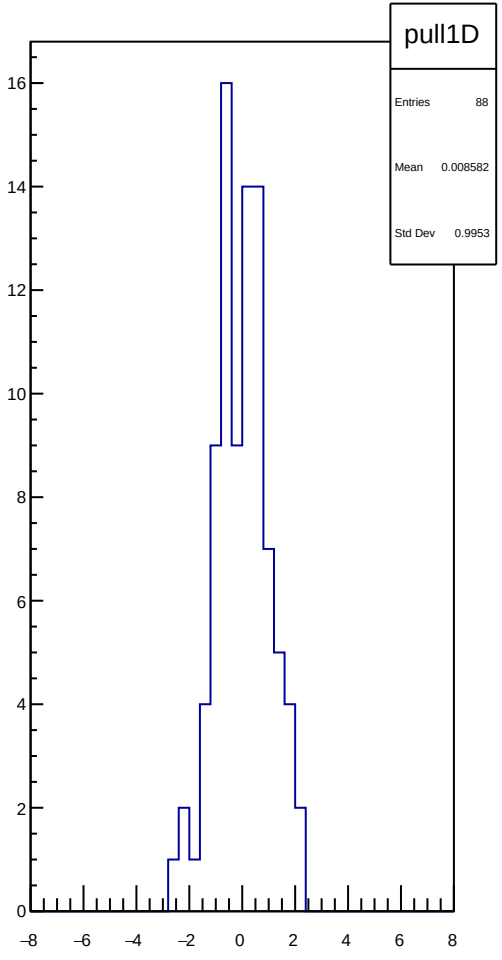

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.388e+05 / 87
p0 1.11e−11 ± 1.101e−14
80
70
60
50
40
30
20
10

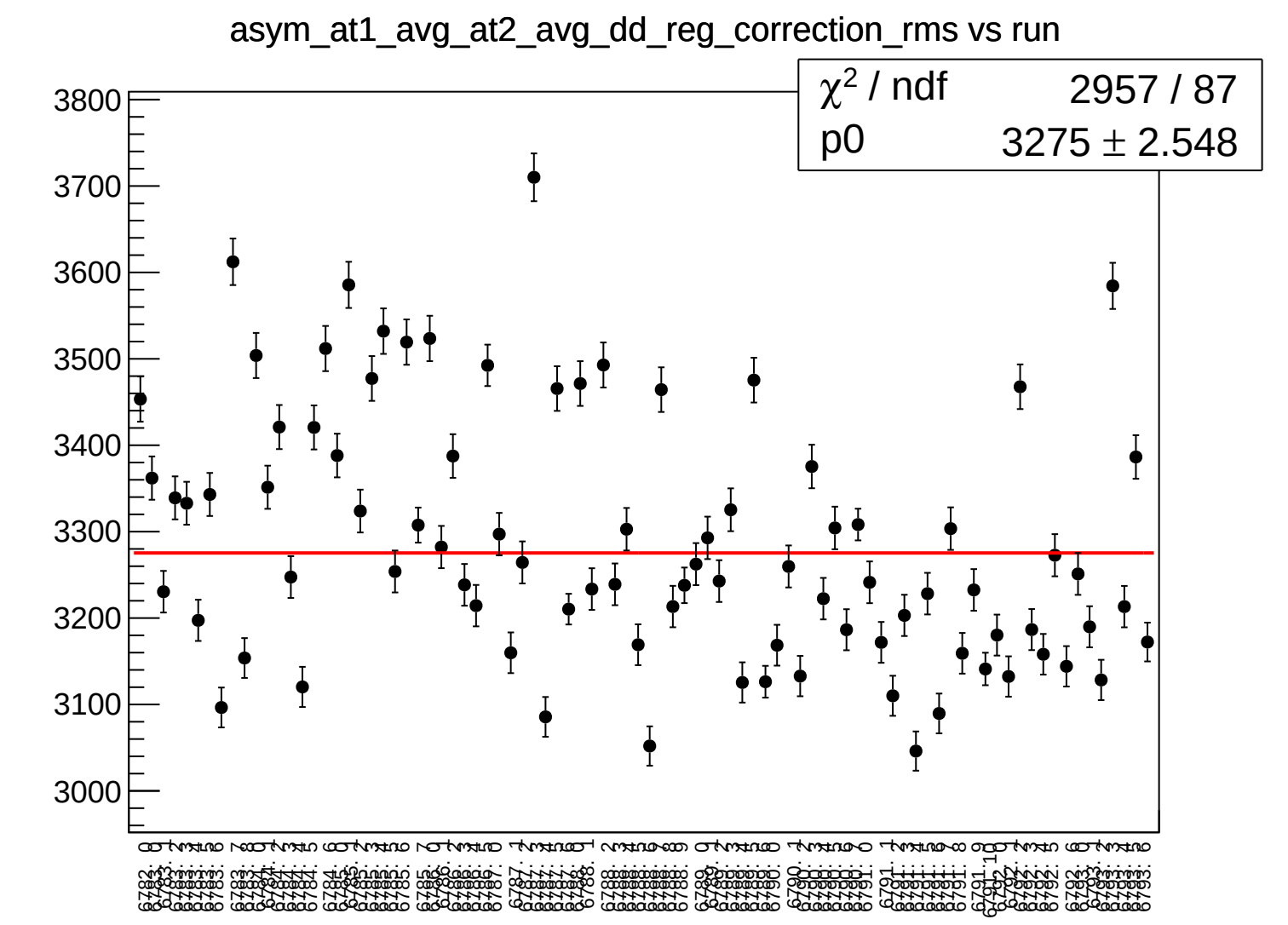

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.31 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

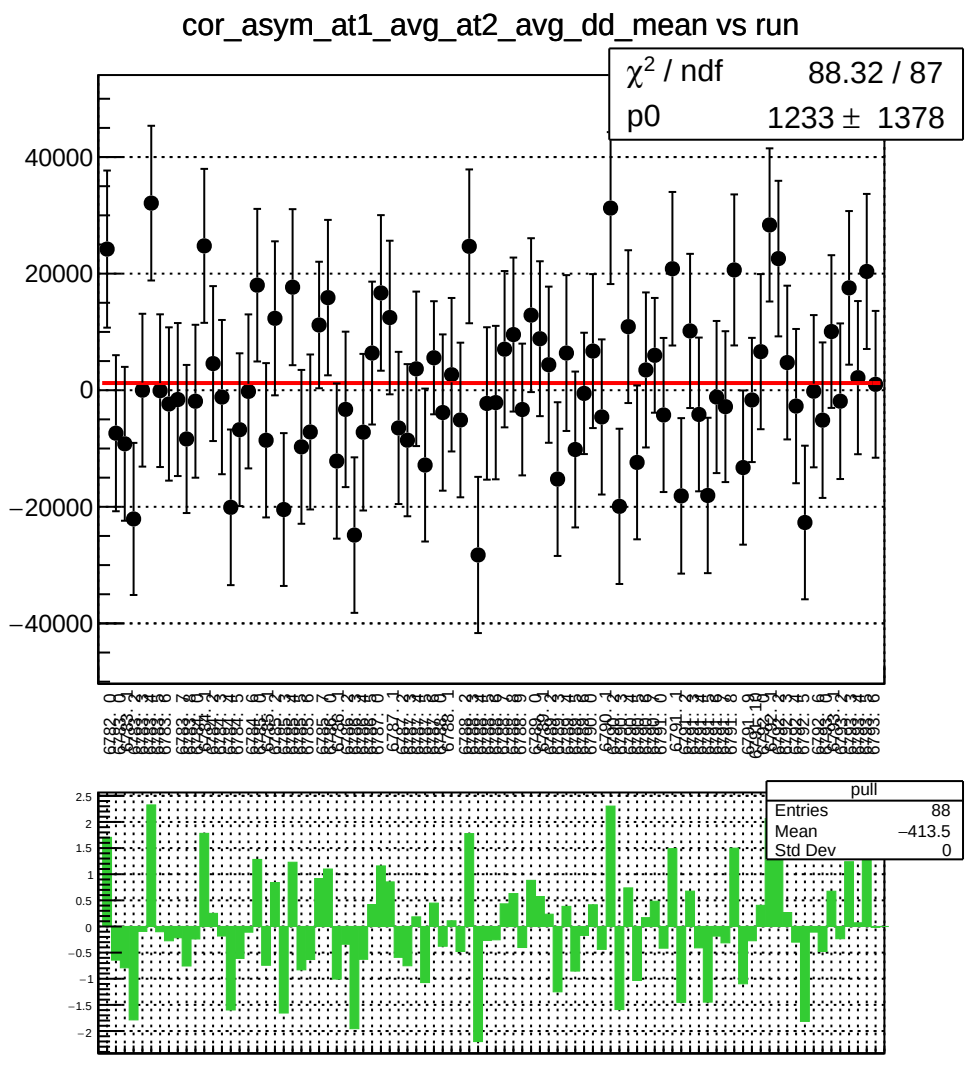

pull1D
Entries 88
Mean −0.004578
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

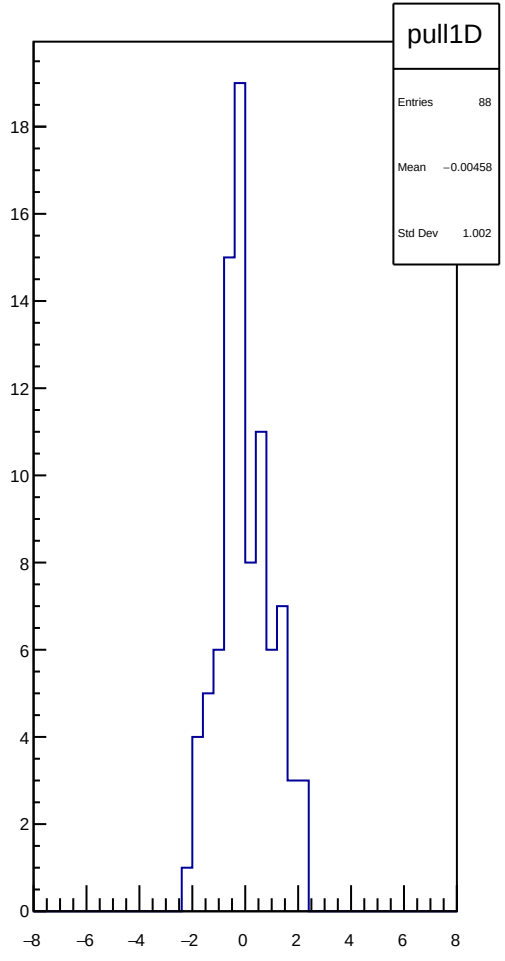

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

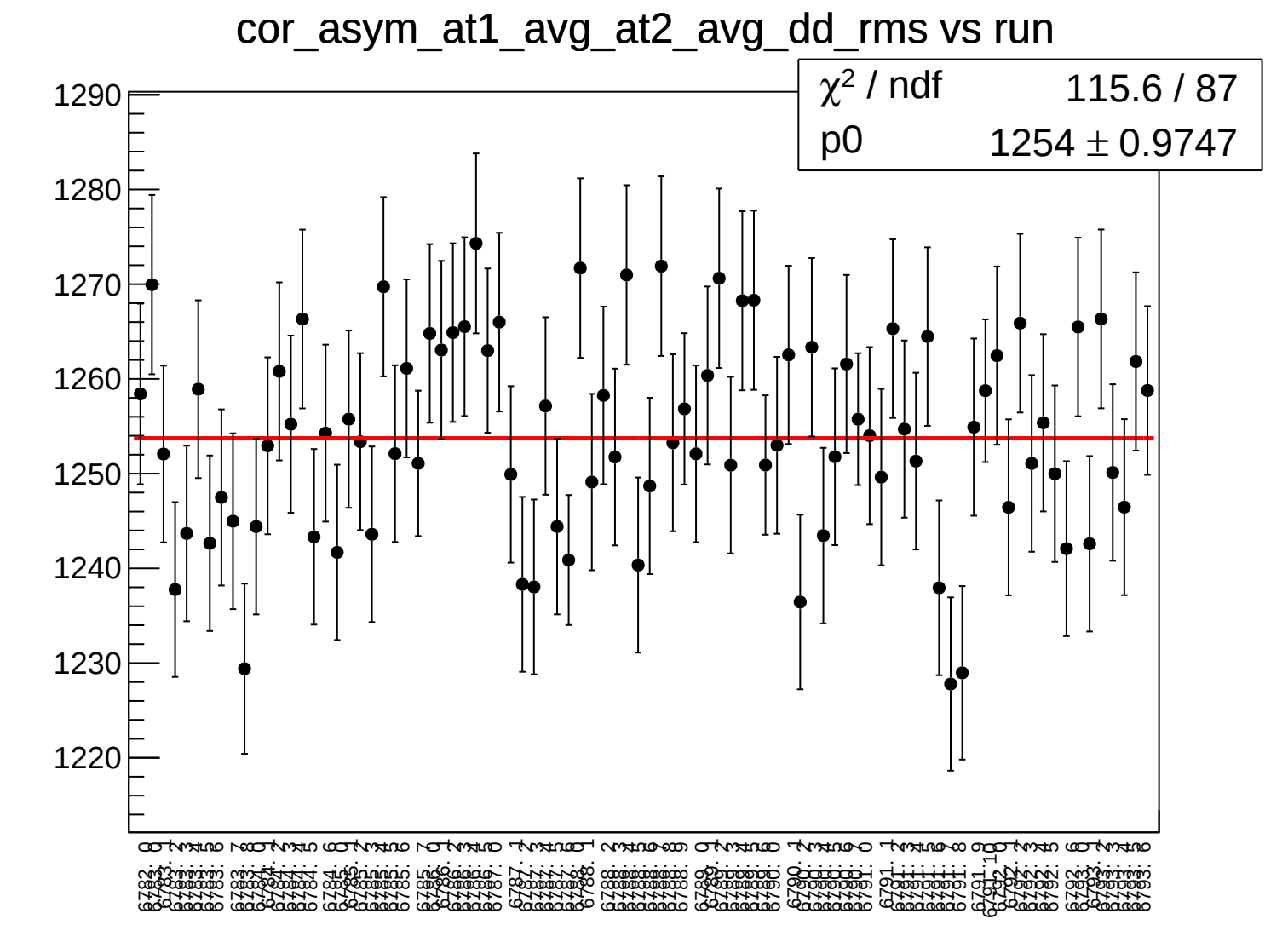

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 87.18 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.467
Std Dev 0
2
1
0
−1
−2

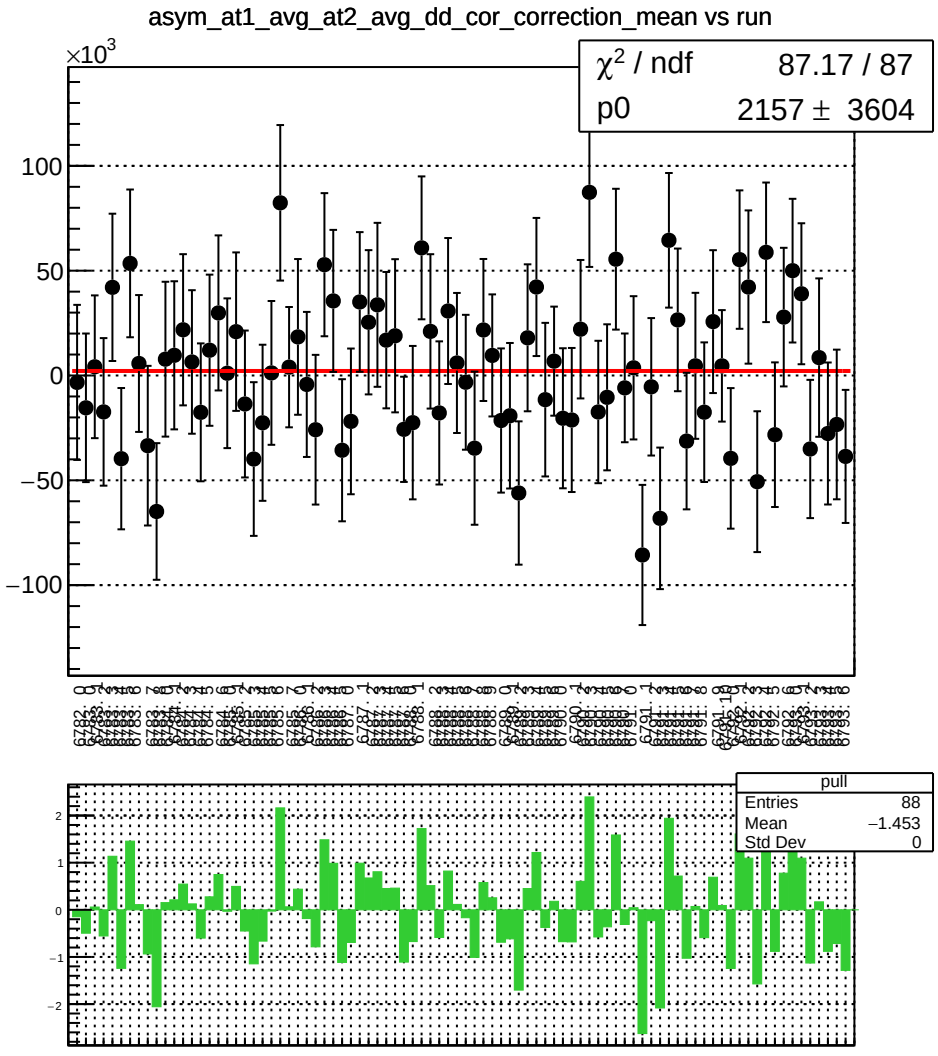

pull1D
Entries 88
Mean 0.008582
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

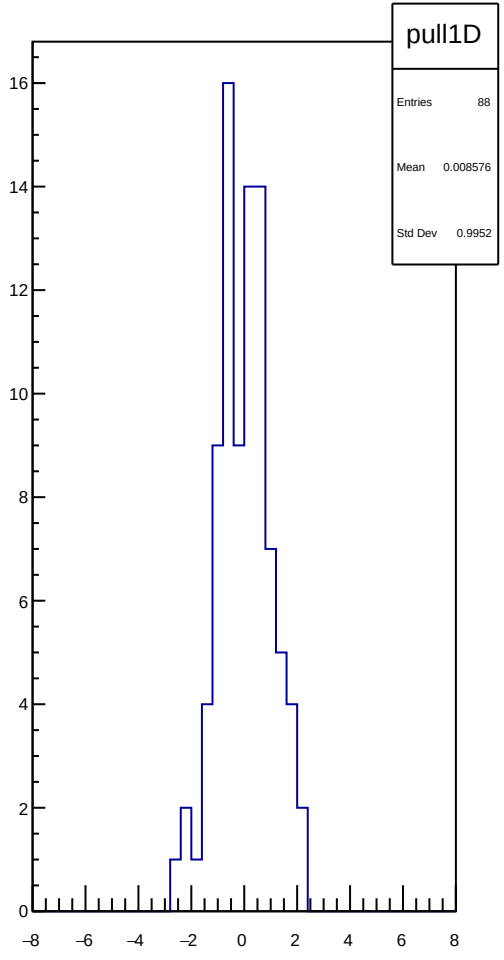

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

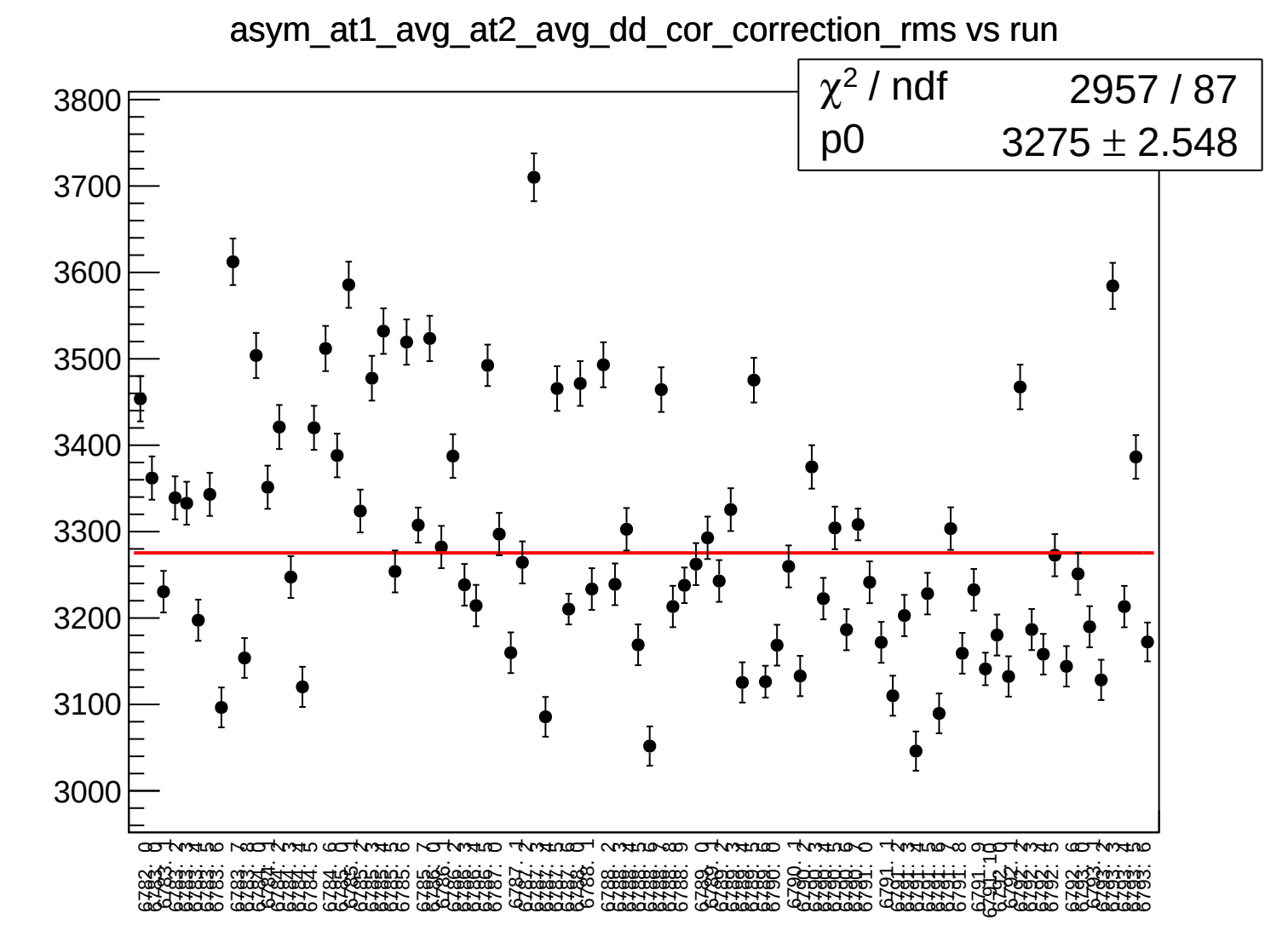

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.32 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

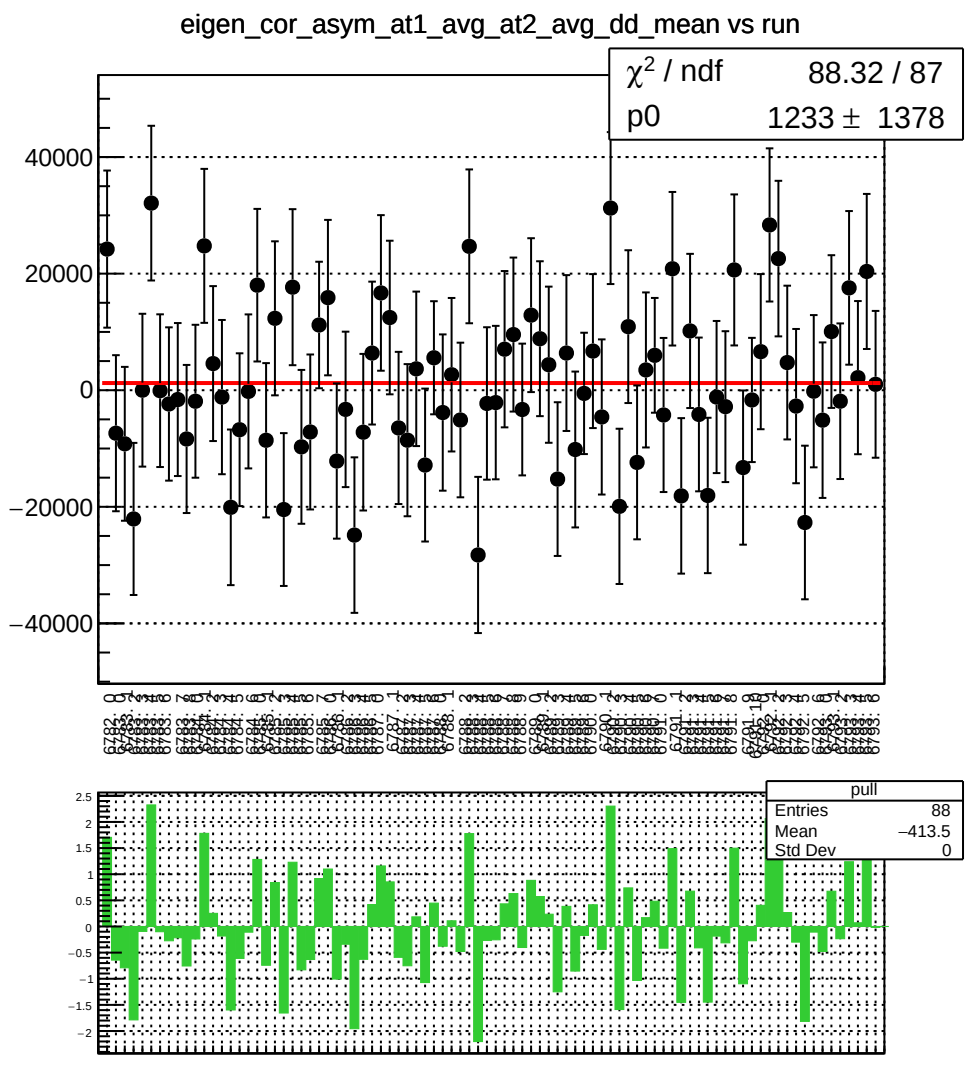

pull1D
Entries 88
Mean −0.00458
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

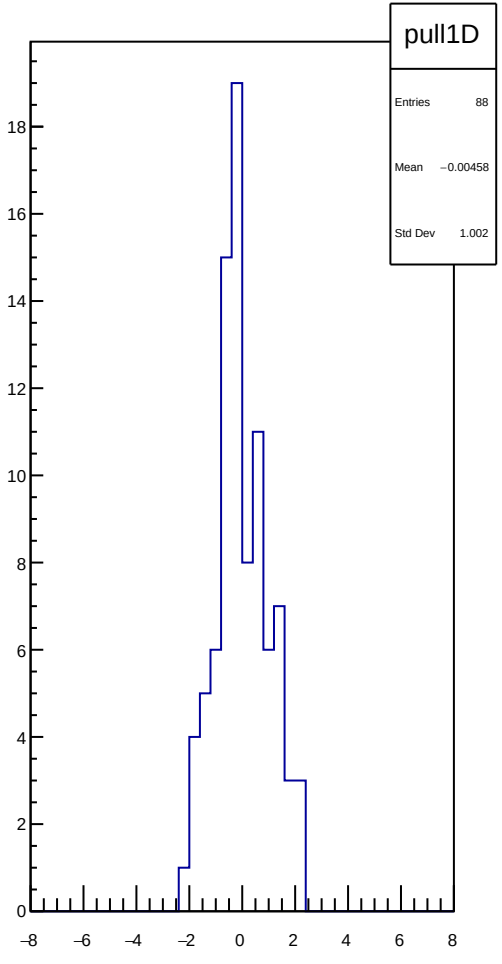

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

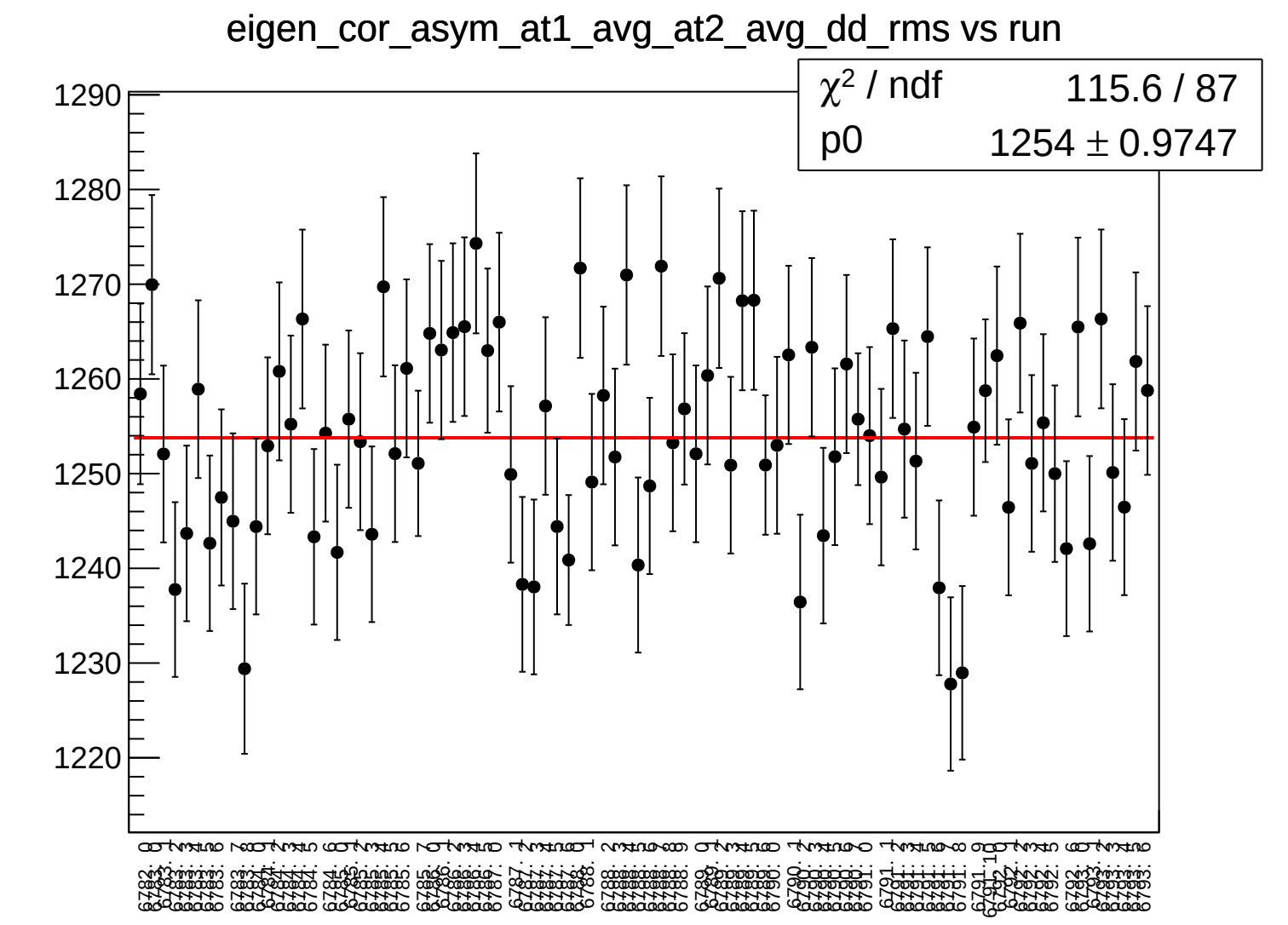

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.17 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.453
Std Dev 0
2
1
0
−1
−2

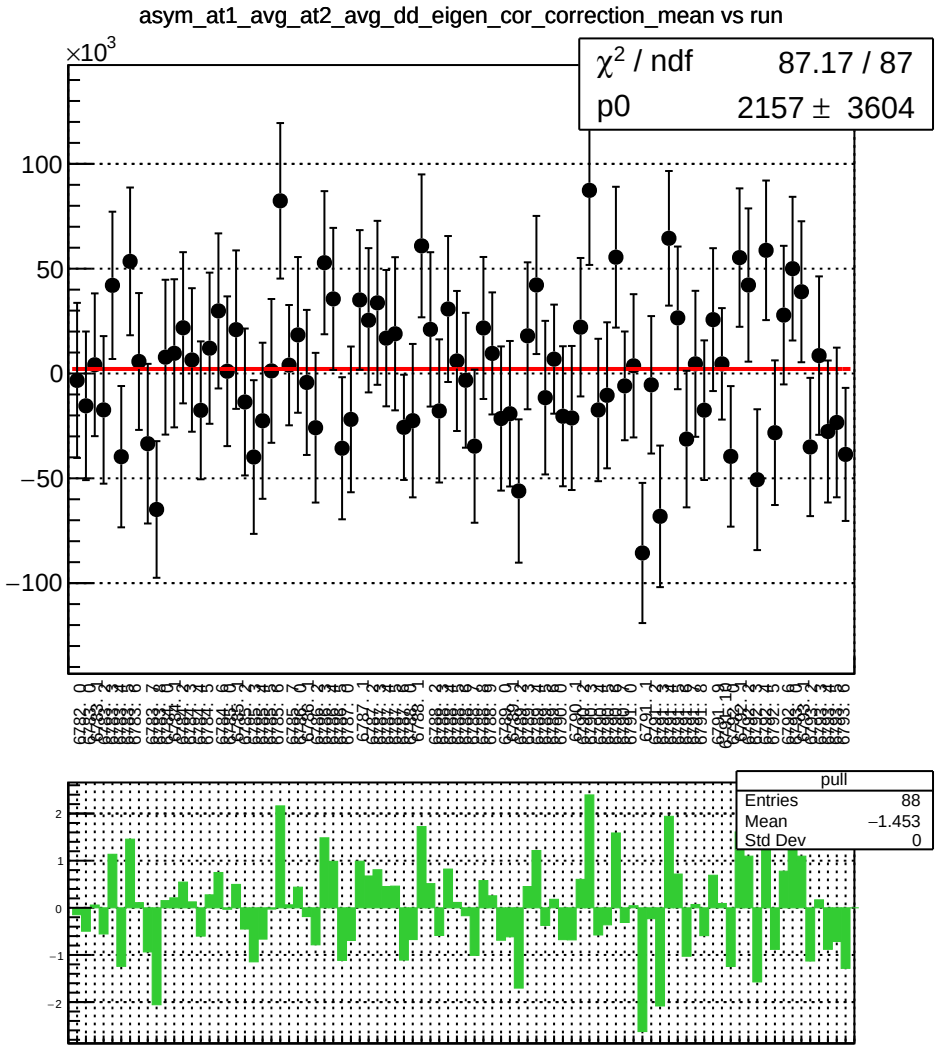

pull1D
Entries 88
Mean 0.008576
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

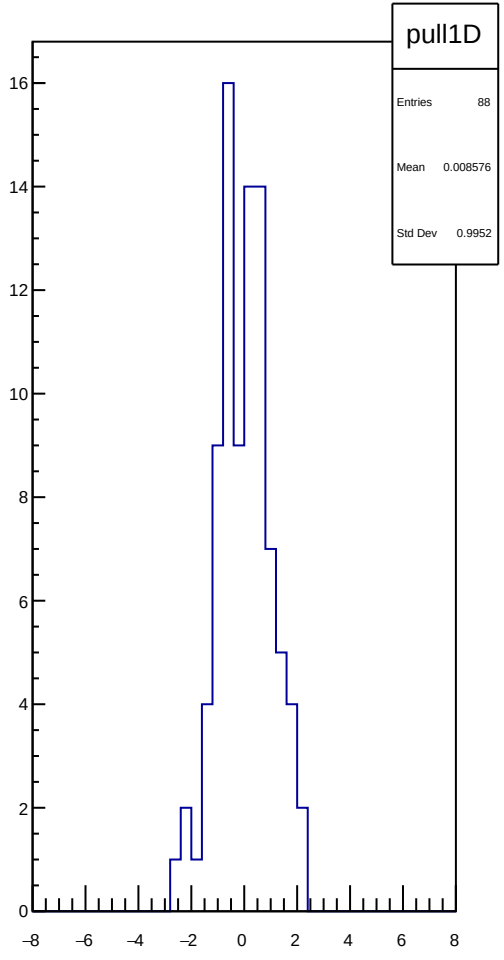

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

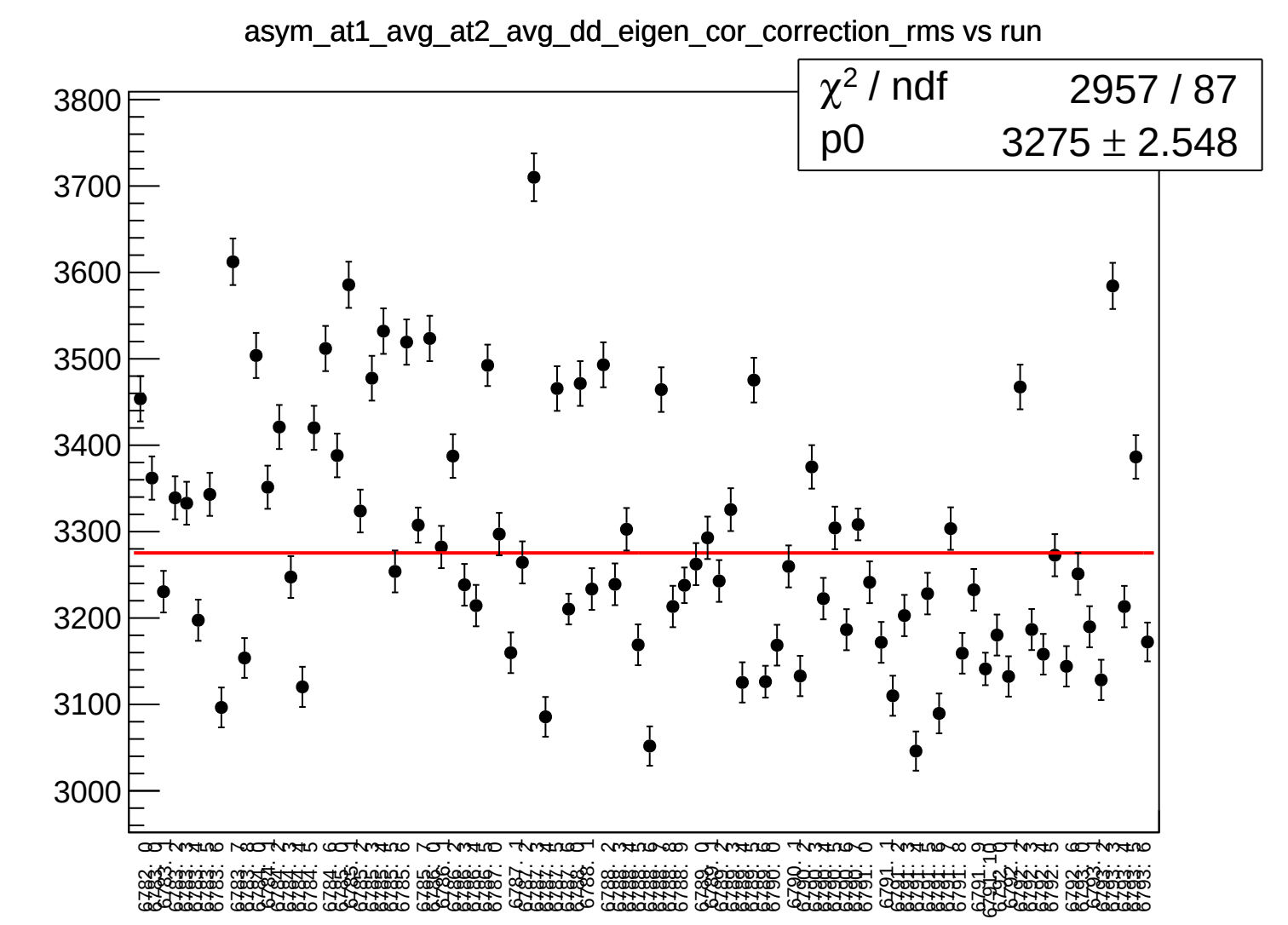

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.32 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

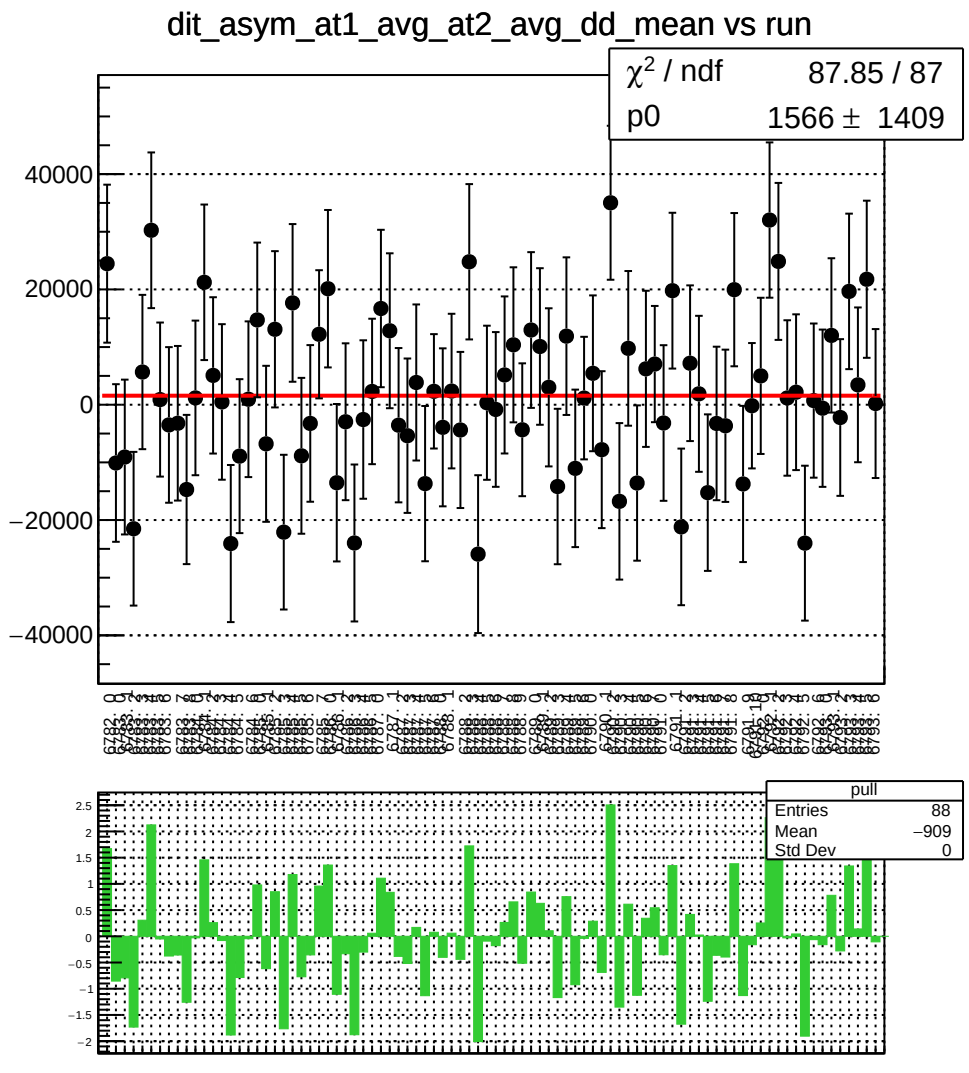

pull1D
Entries 88
Mean −0.00458
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

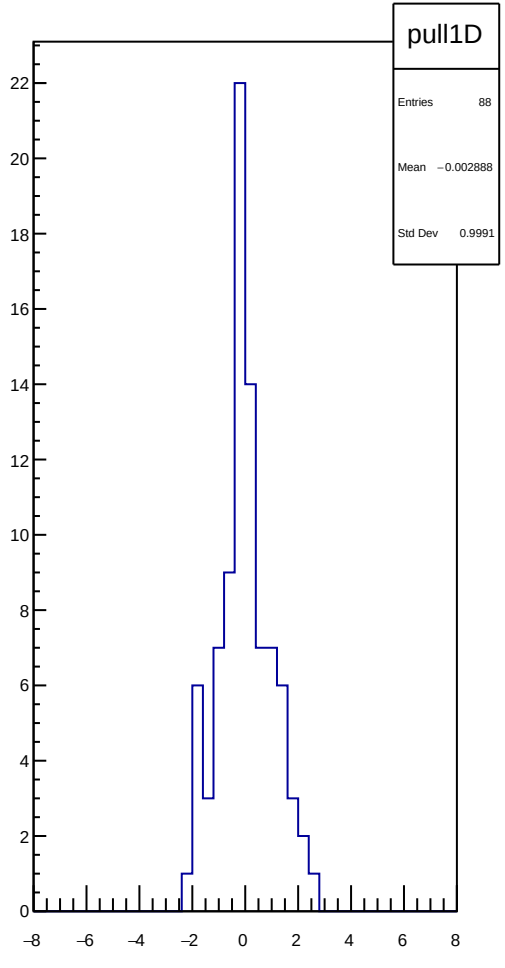

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

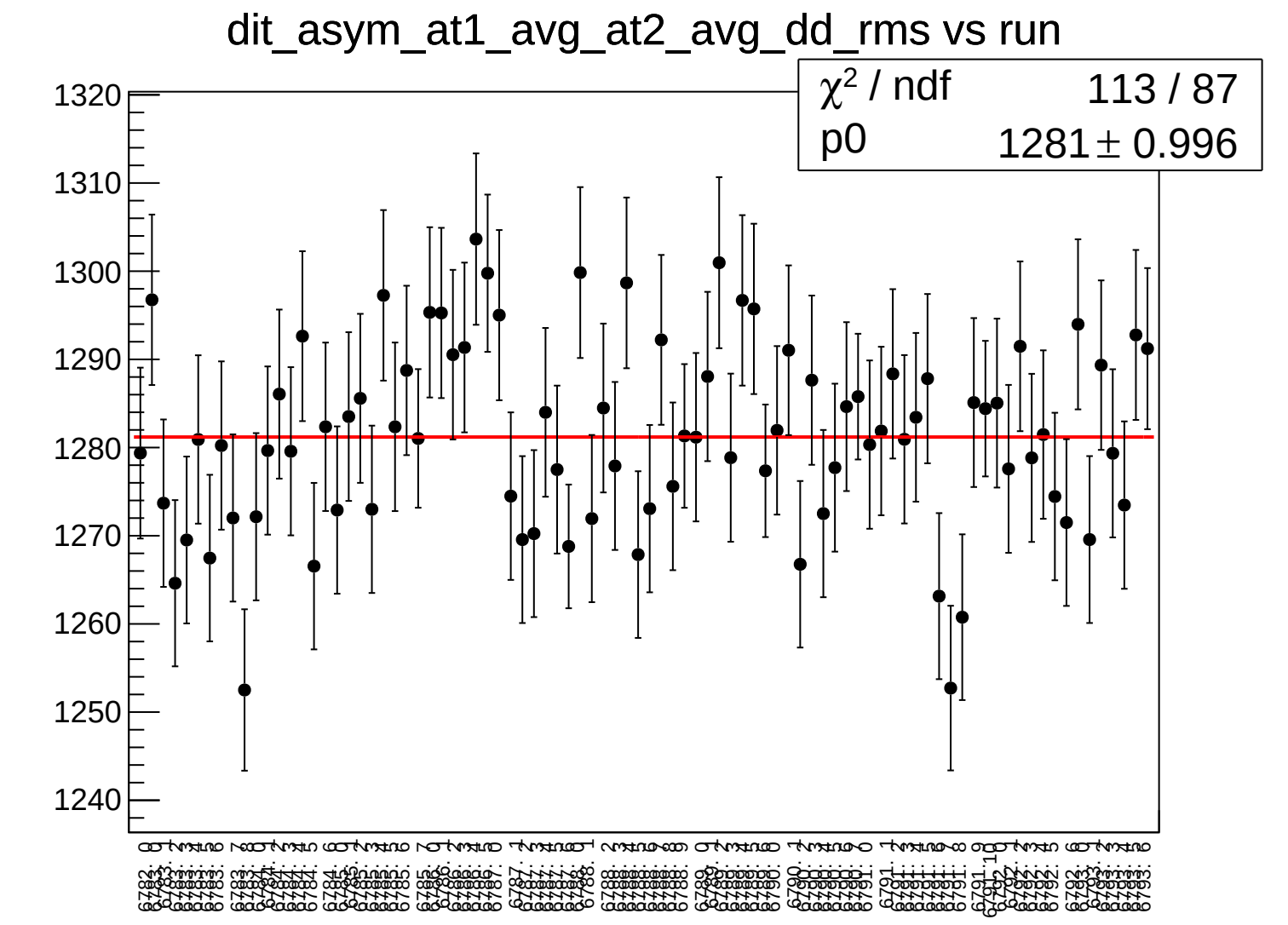

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.17 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.453
Std Dev 0
2
1
0
−1
−2

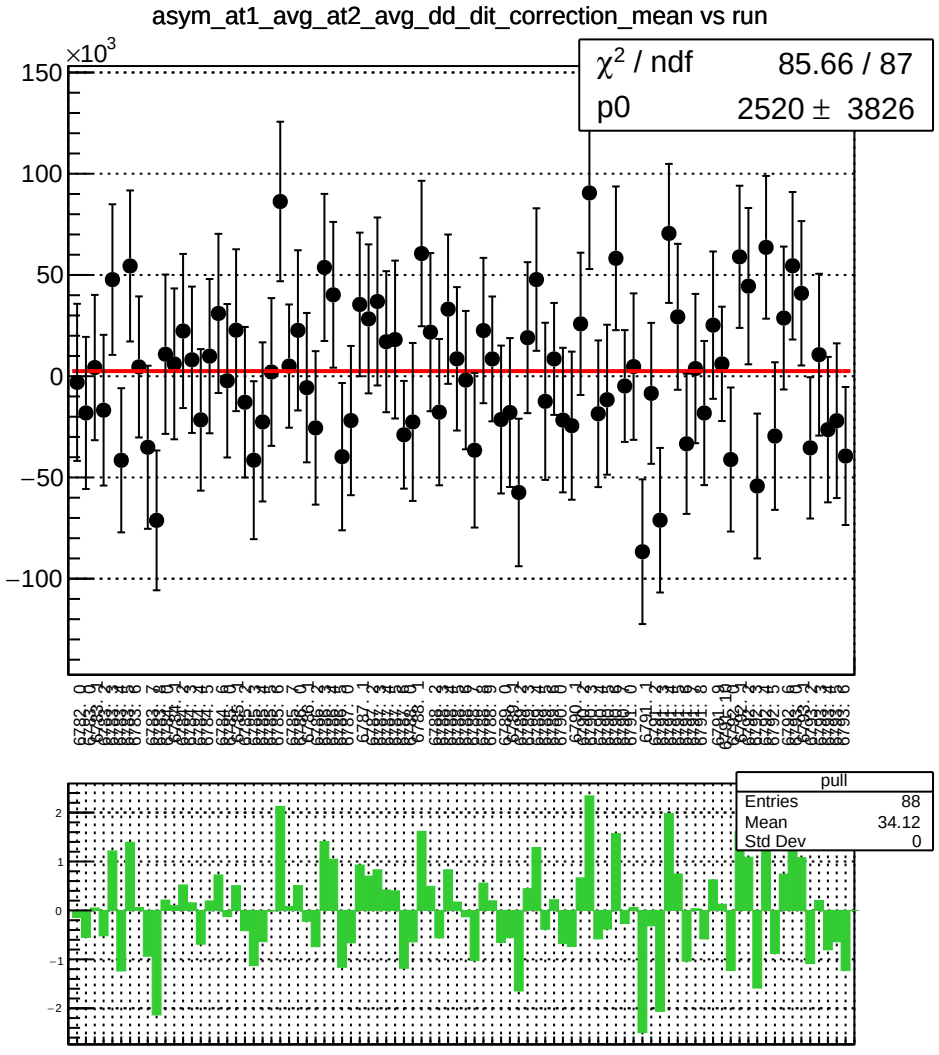

pull1D
Entries 88
Mean 0.008576
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

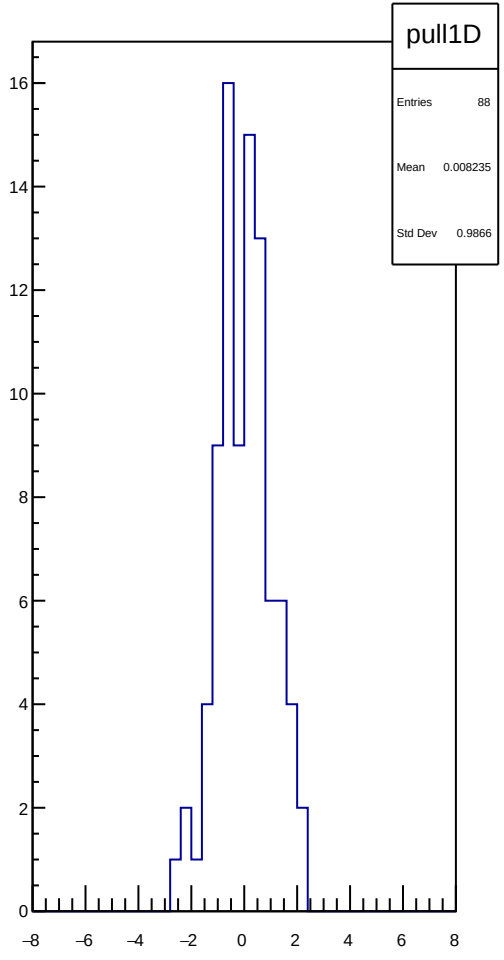

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

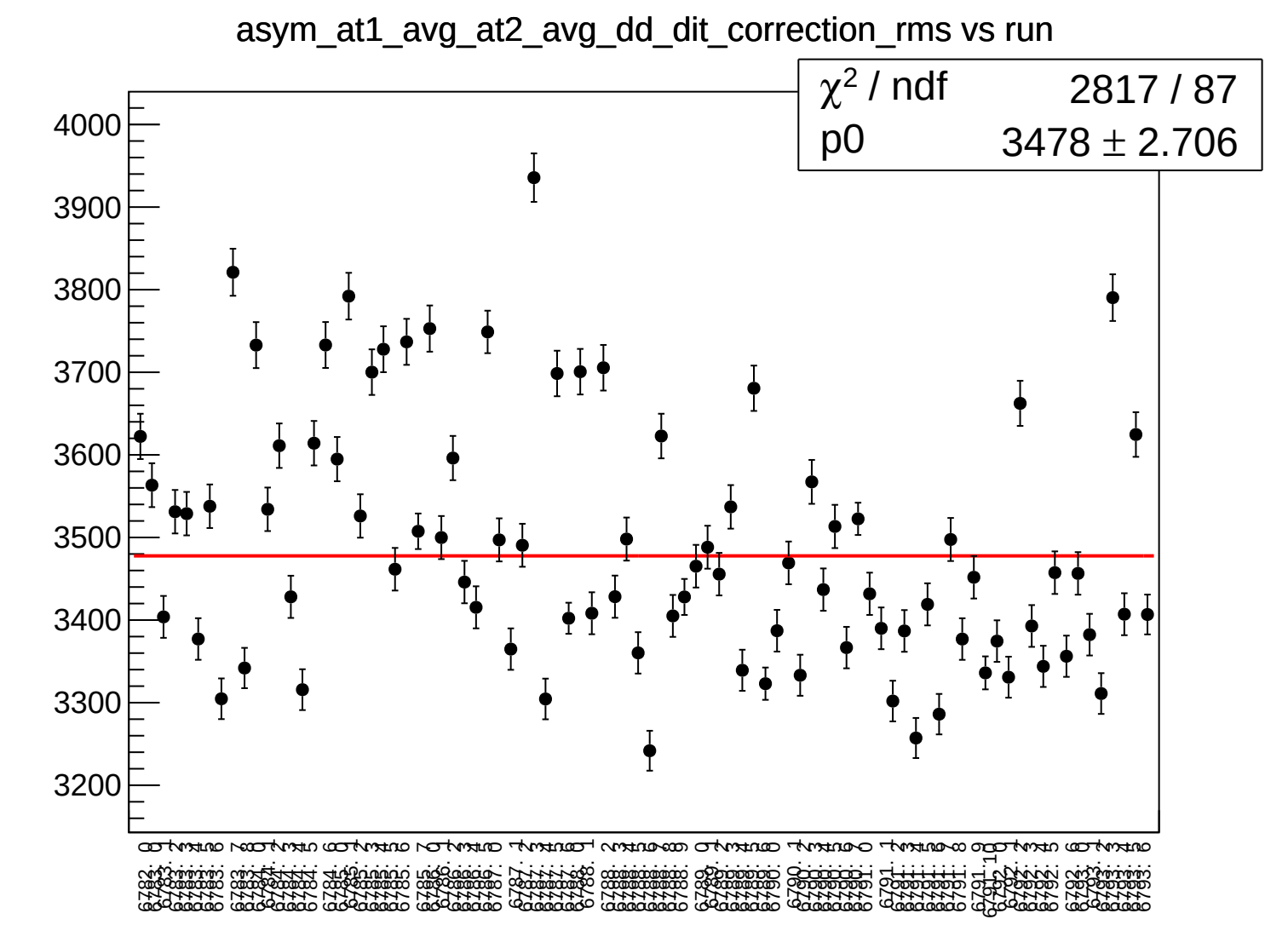

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.85 / 87
p0 1566 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −909
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

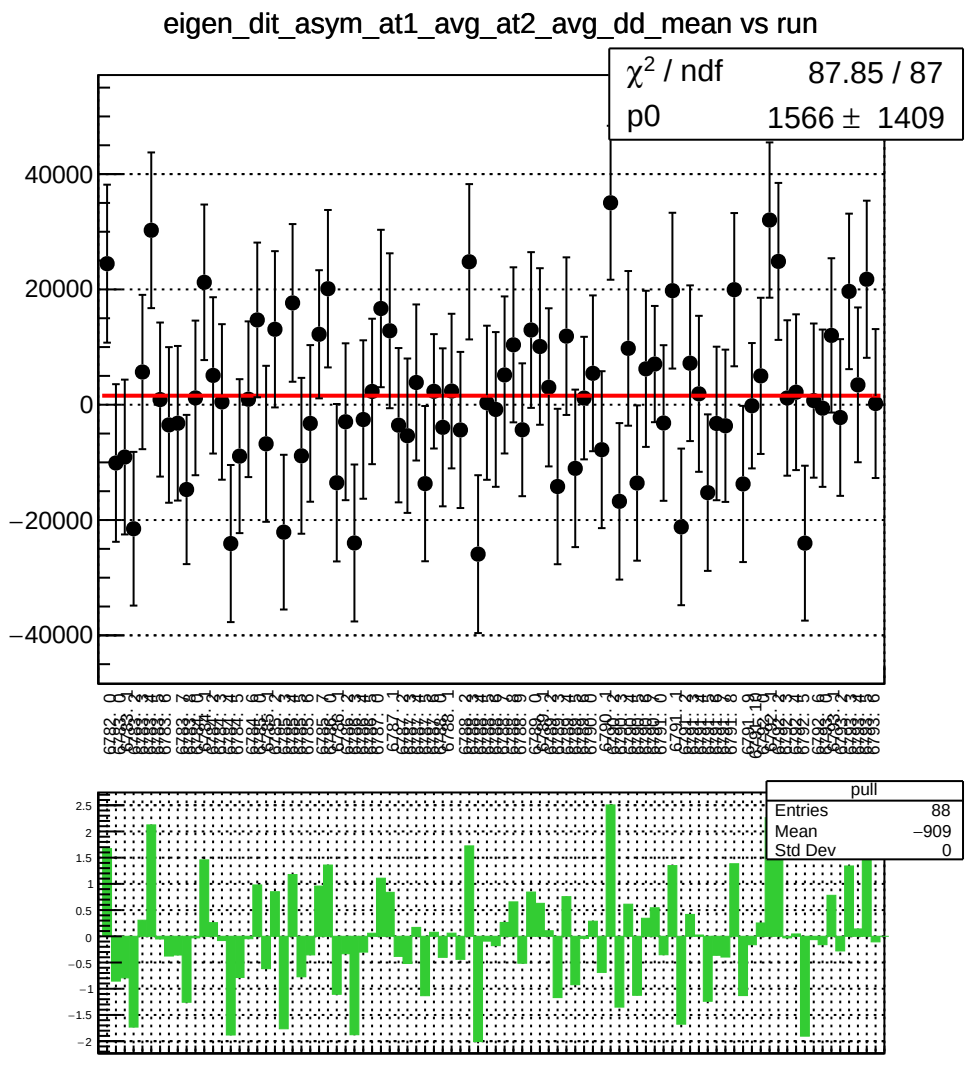

pull1D
Entries 88
Mean −0.002888
Std Dev 0.9991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

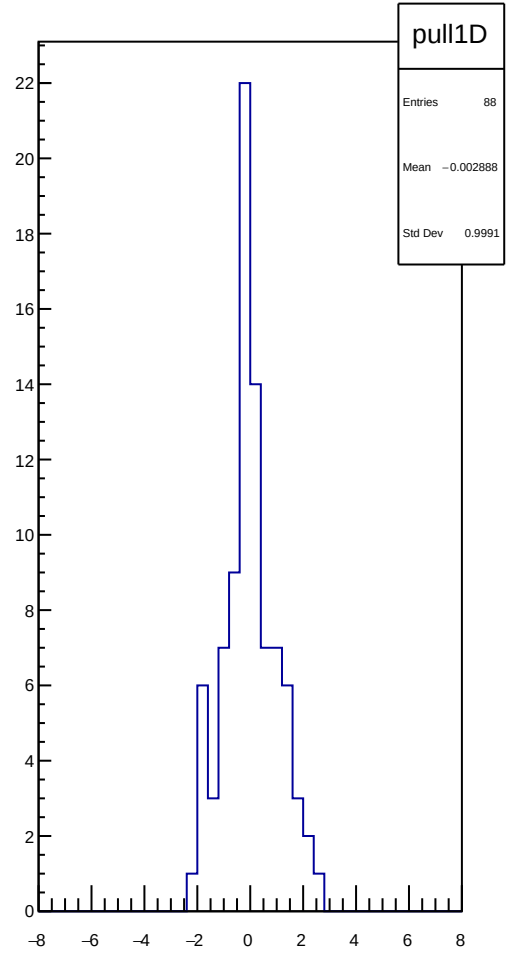

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 113 / 87
p0 1281 ± 0.996
1320
1310
1300
1290
1280
1270
1260
1250
1240

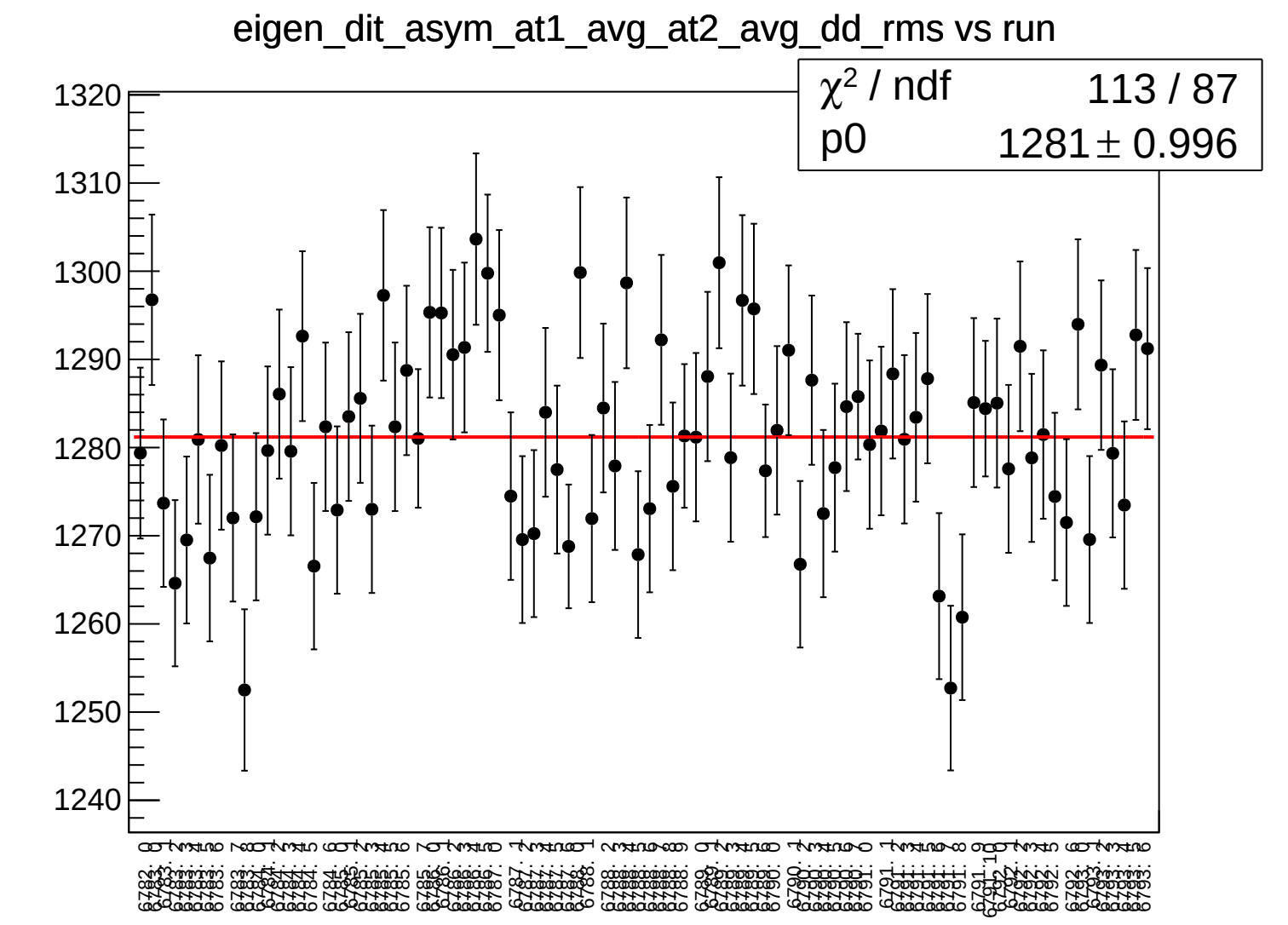

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 85.66 / 87
p0 2520 ± 3826
×10³
150
100
50
0
−50
−100
pull
Entries 88
Mean 34.12
Std Dev 0
2
1
0
−1
−2

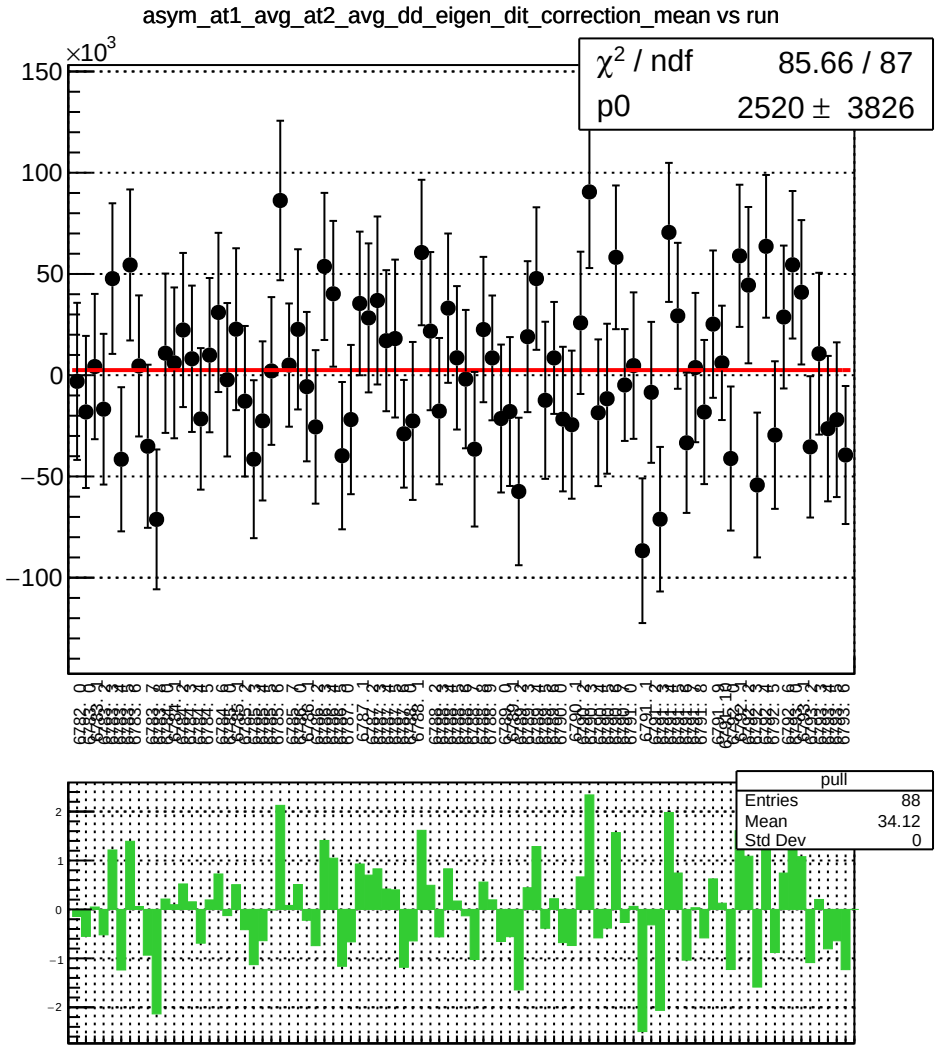

pull1D
Entries 88
Mean 0.008235
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

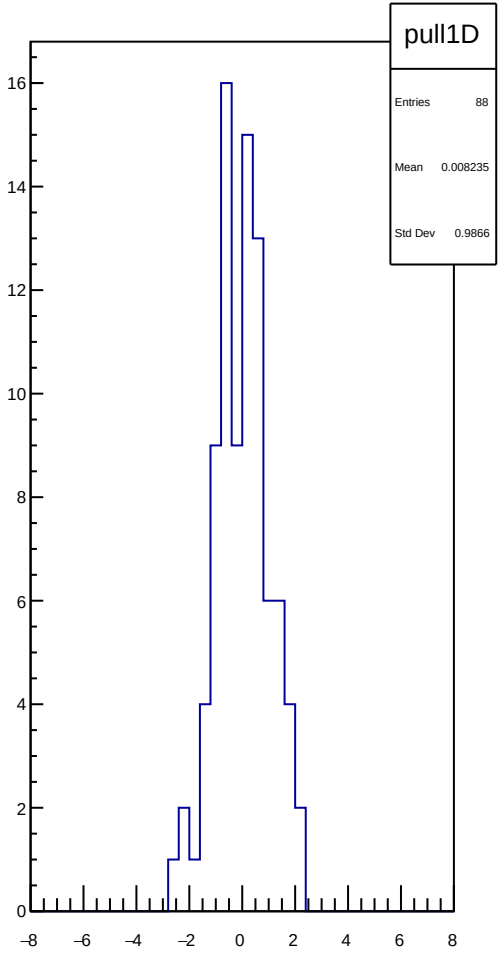

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ^2 / ndf 2817 / 87
p0 3478 ± 2.706
4000
3900
3800
3700
3600
3500
3400
3300
3200

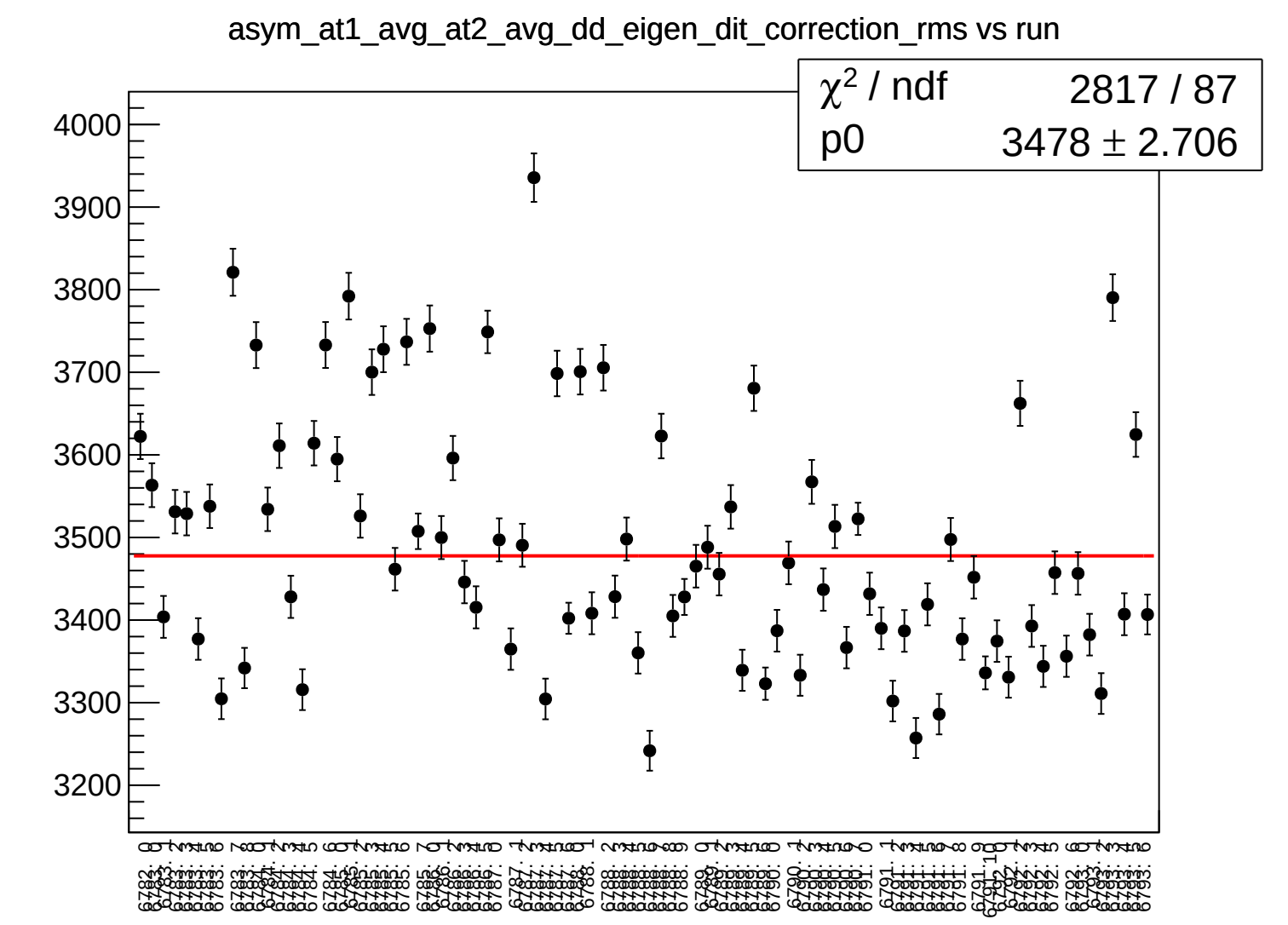

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.85 / 87
p0 1566 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −909
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

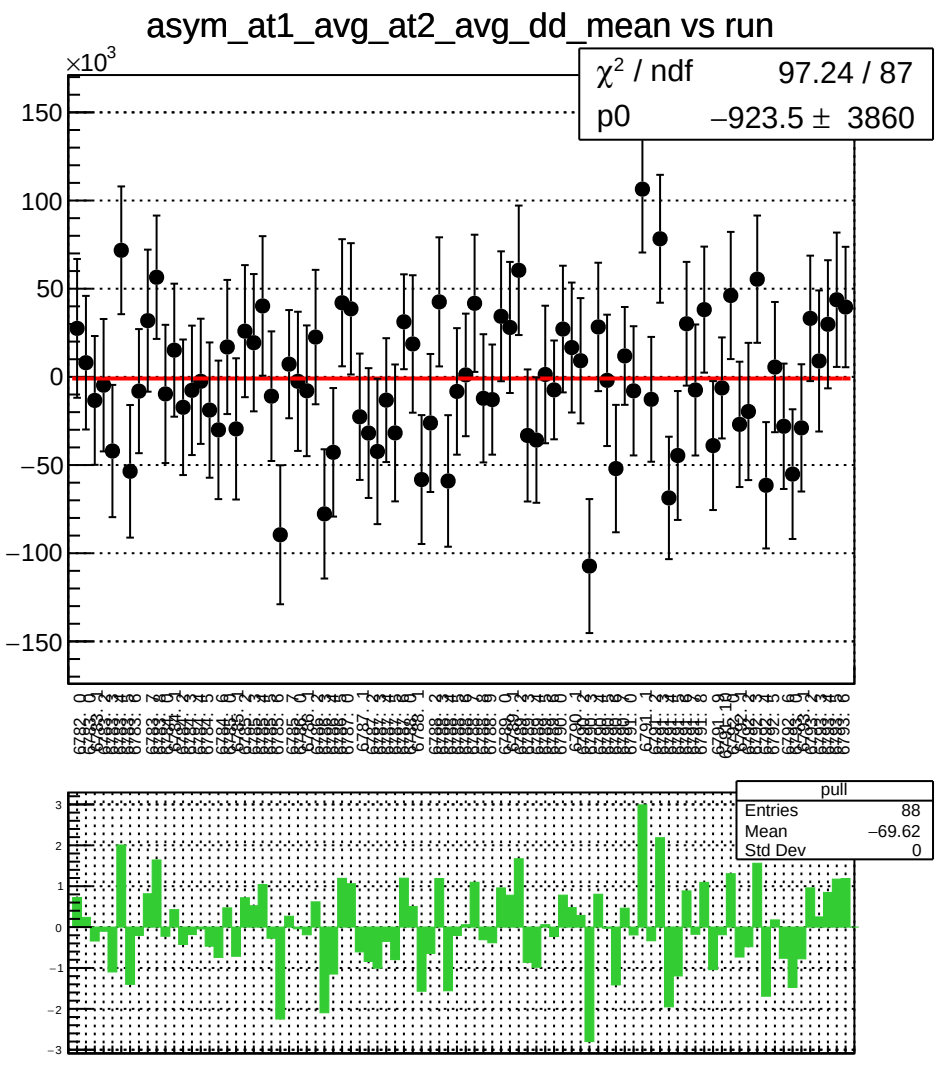

pull1D
Entries 88
Mean −0.002888
Std Dev 0.9991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

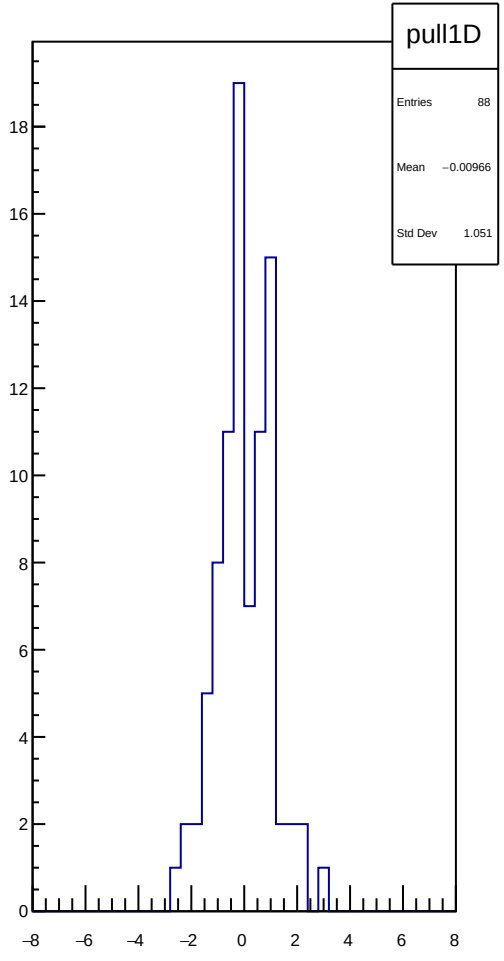

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 113 / 87
p0 1281 ± 0.996
1320
1310
1300
1290
1280
1270
1260
1250
1240

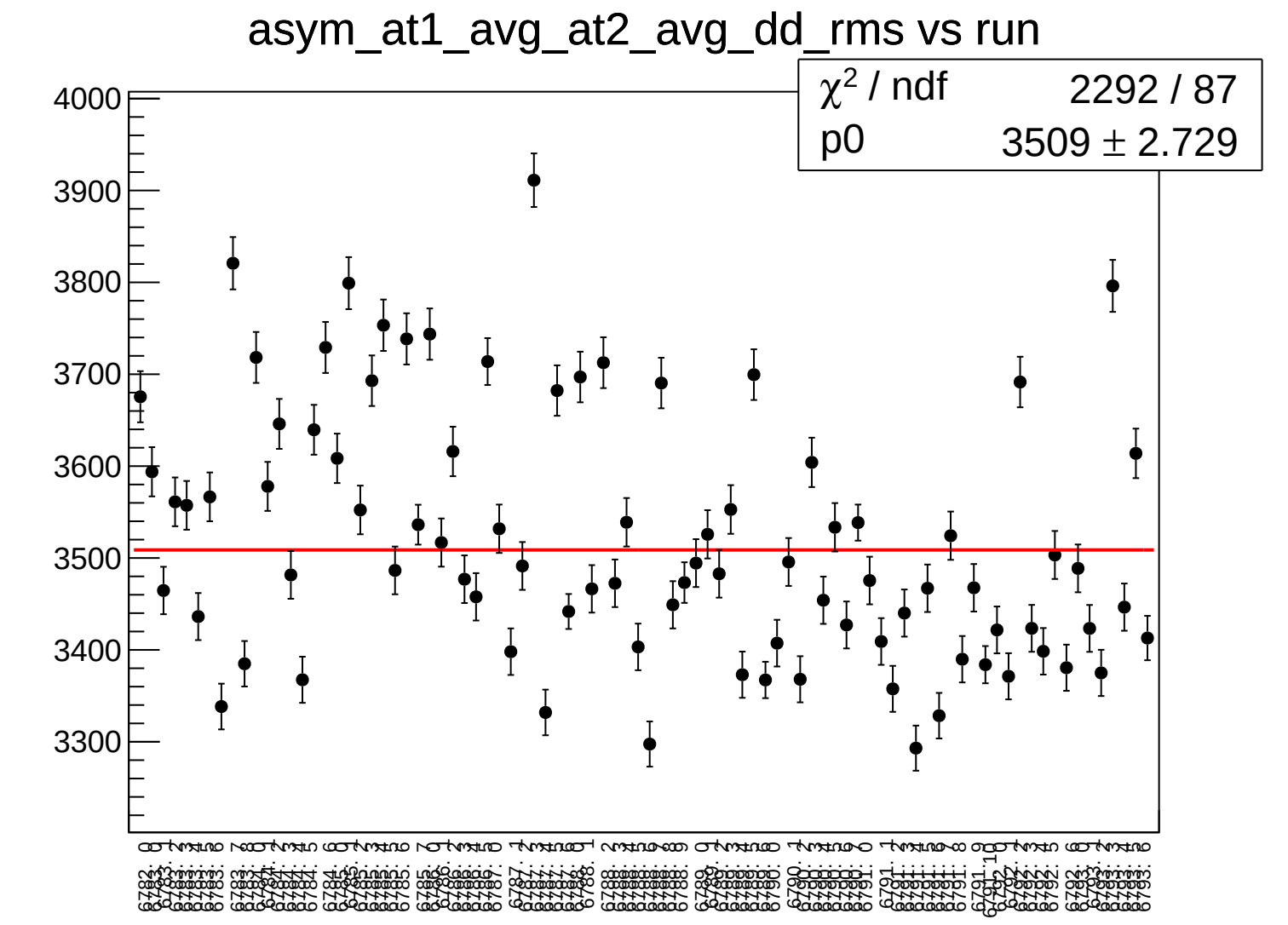

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.66 / 87
p0 2520 ± 3826
150
100
50
0
−50
−100
pull
Entries 88
Mean 34.12
Std Dev 0
2
1
0
−1
−2

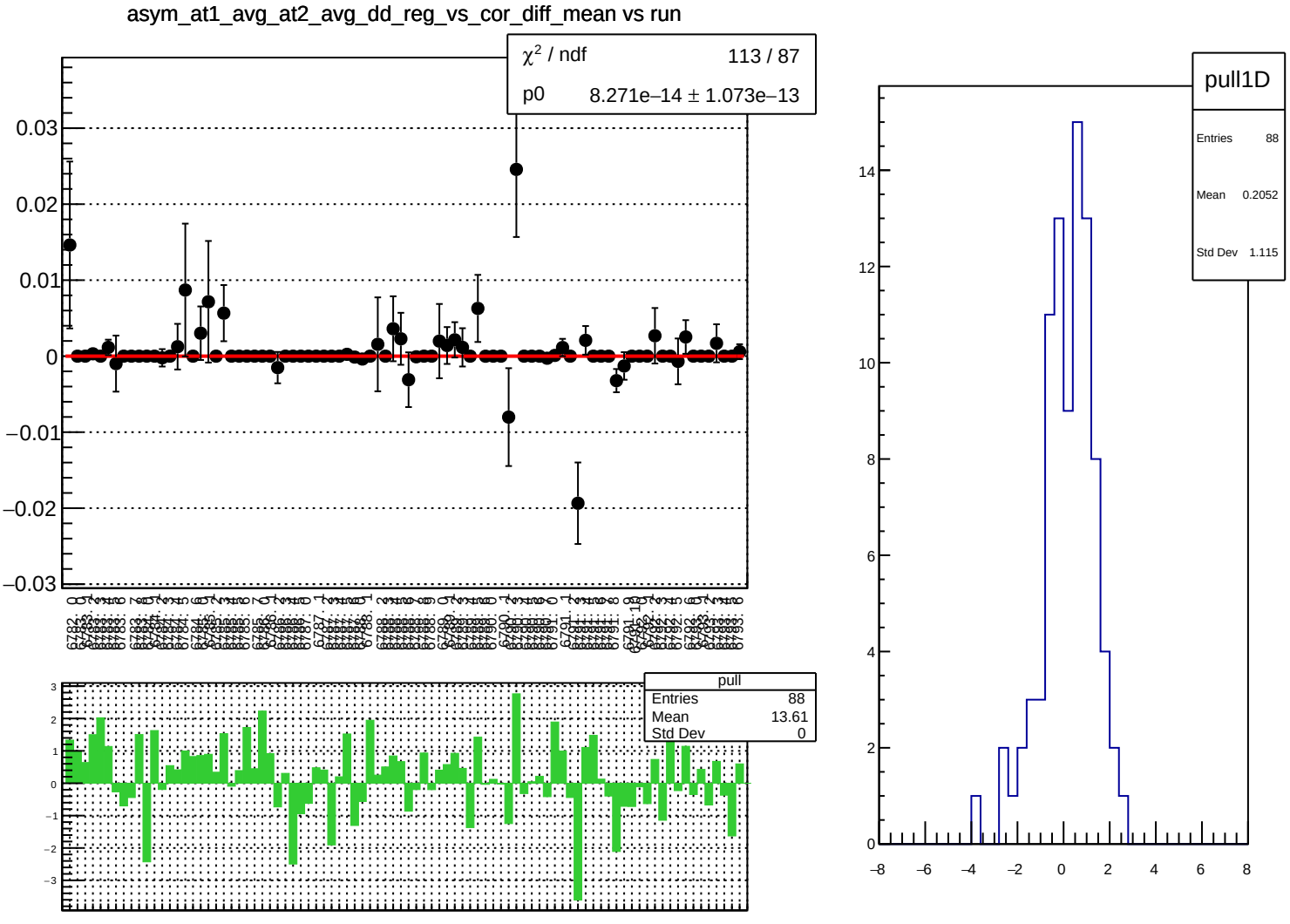

pull1D
Entries 88
Mean 0.008235
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

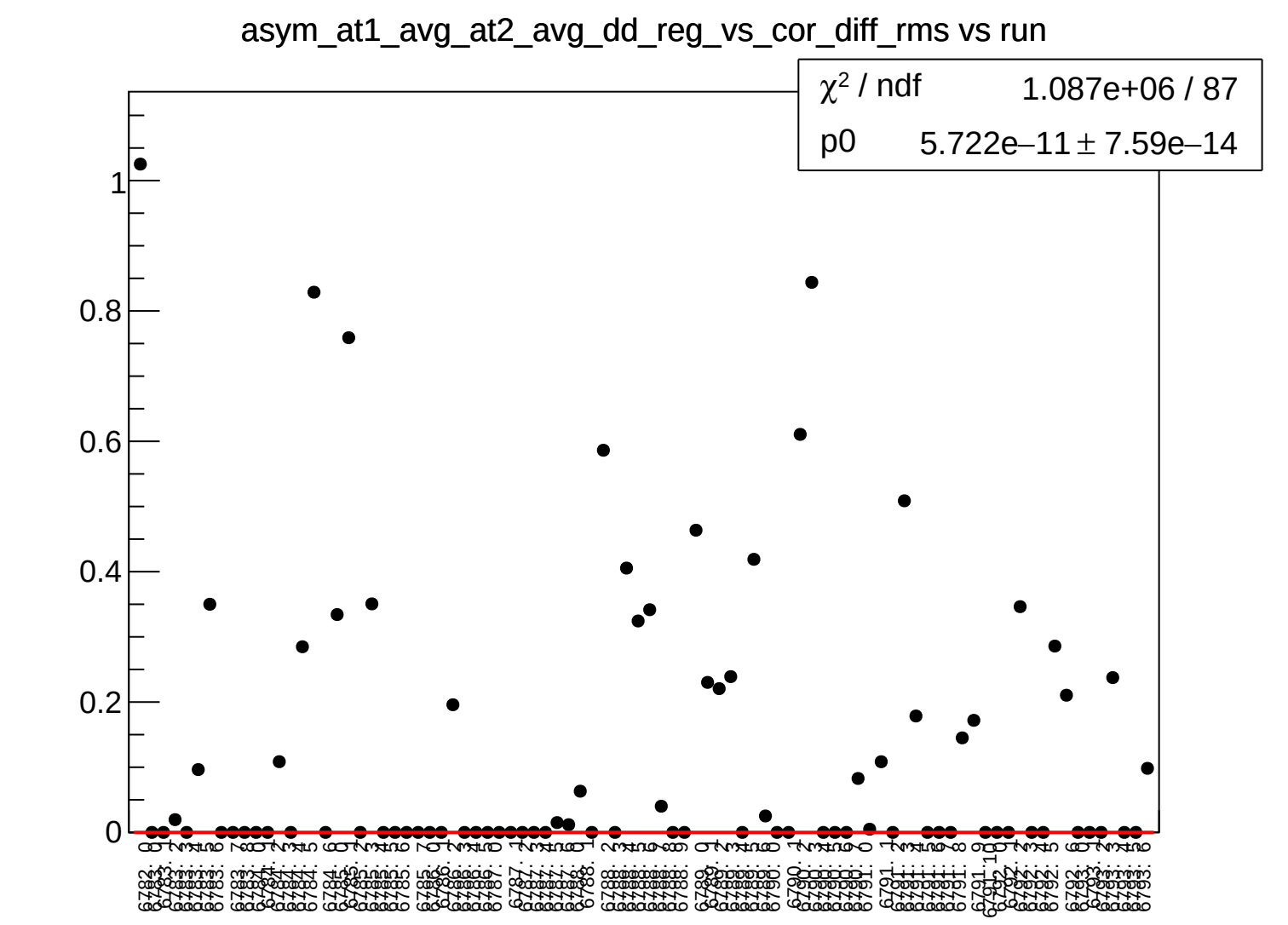

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2817 / 87
p0 3478 ± 2.706
4000
3900
3800
3700
3600
3500
3400
3300
3200

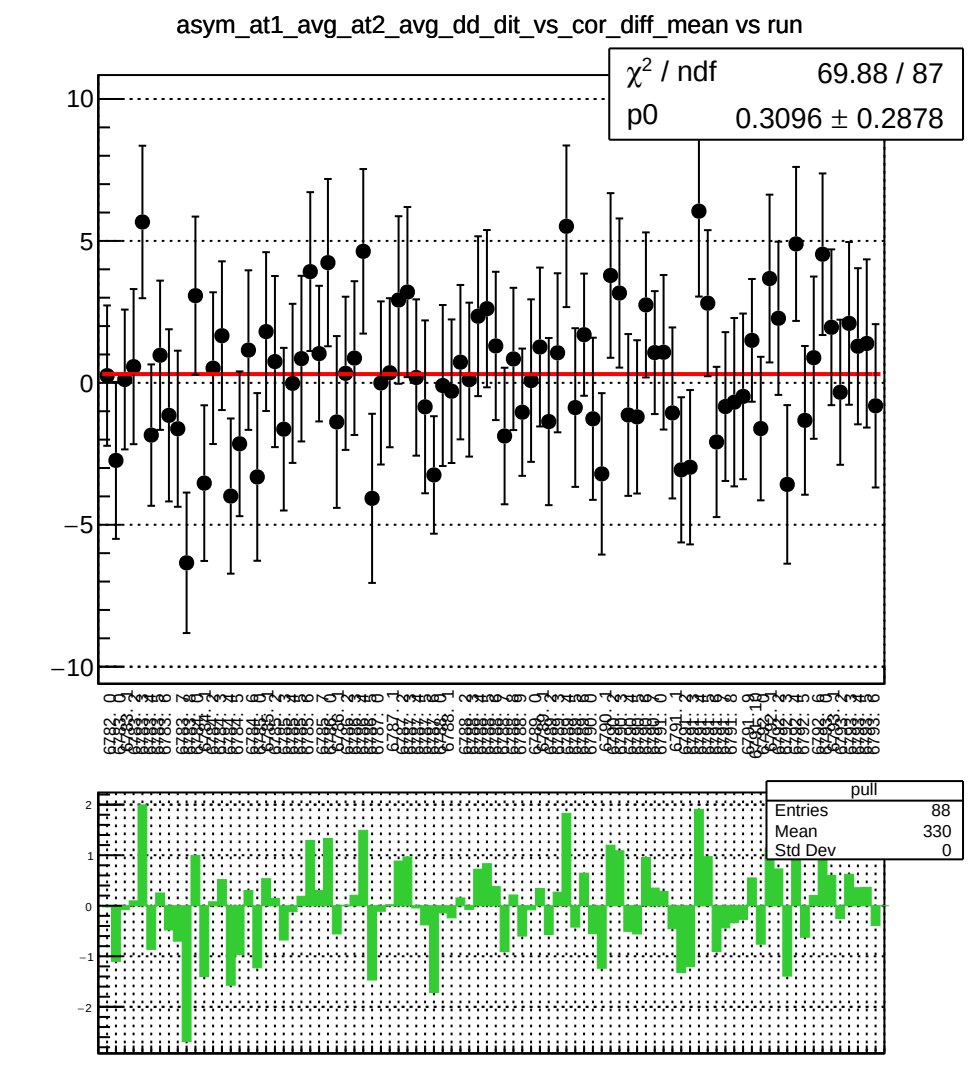

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 97.24 / 87
p0 −923.5 ± 3860
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −69.62
Std Dev 0
3
2
1
0
−1
−2
−3

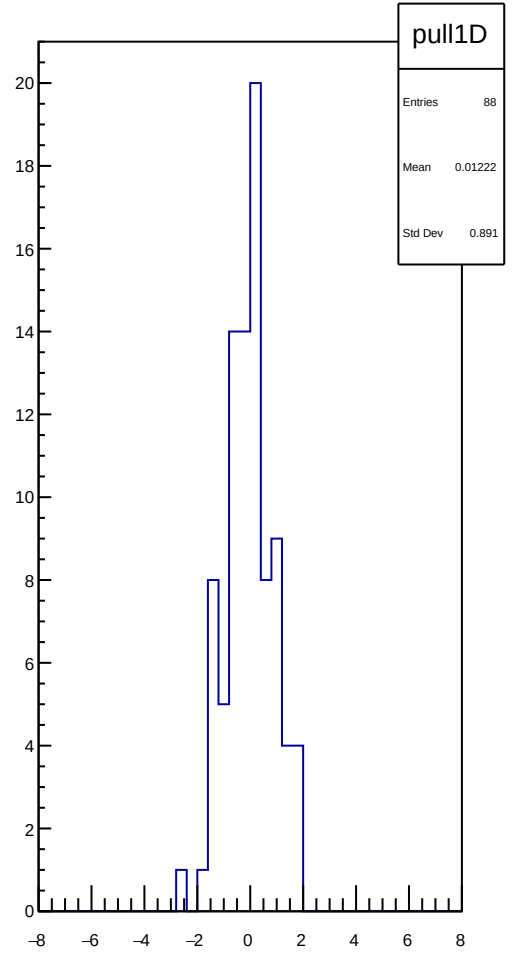

pull1D
Entries 88
Mean −0.00966
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

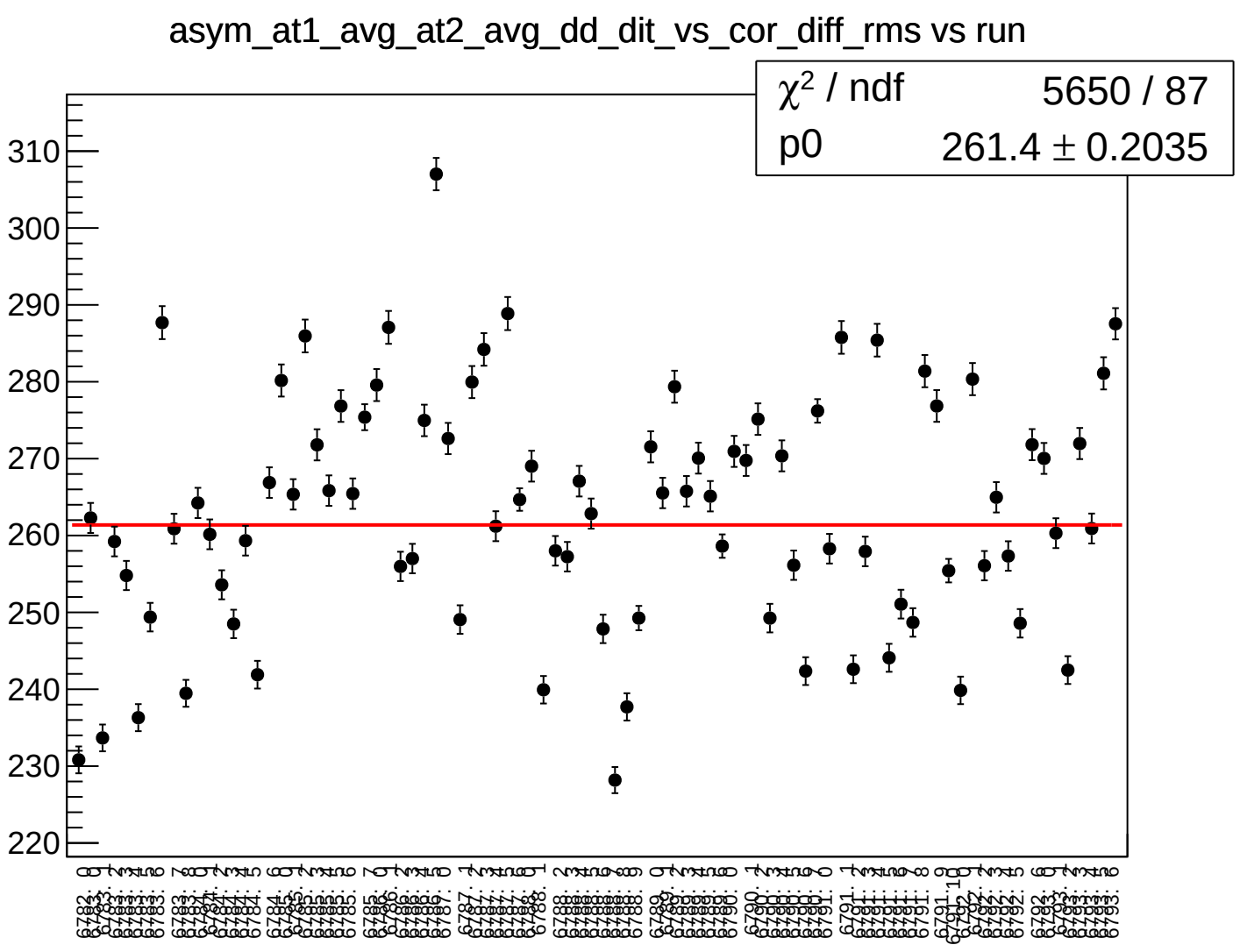

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2292 / 87
p0 3509 ± 2.729
4000
3900
3800
3700
3600
3500
3400
3300

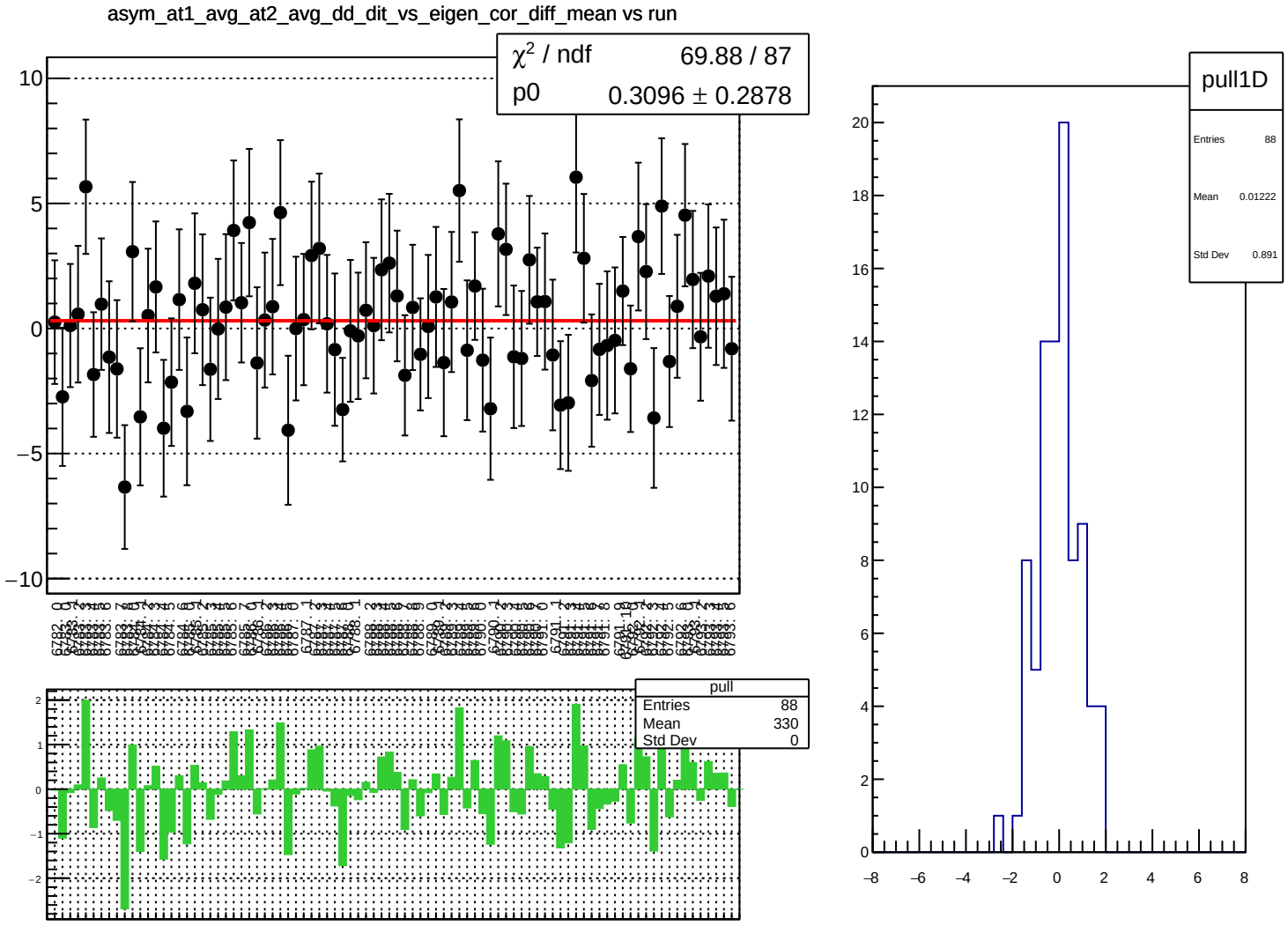

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113 / 87
p0 8.271e−14 ± 1.073e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 13.61
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.2052
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

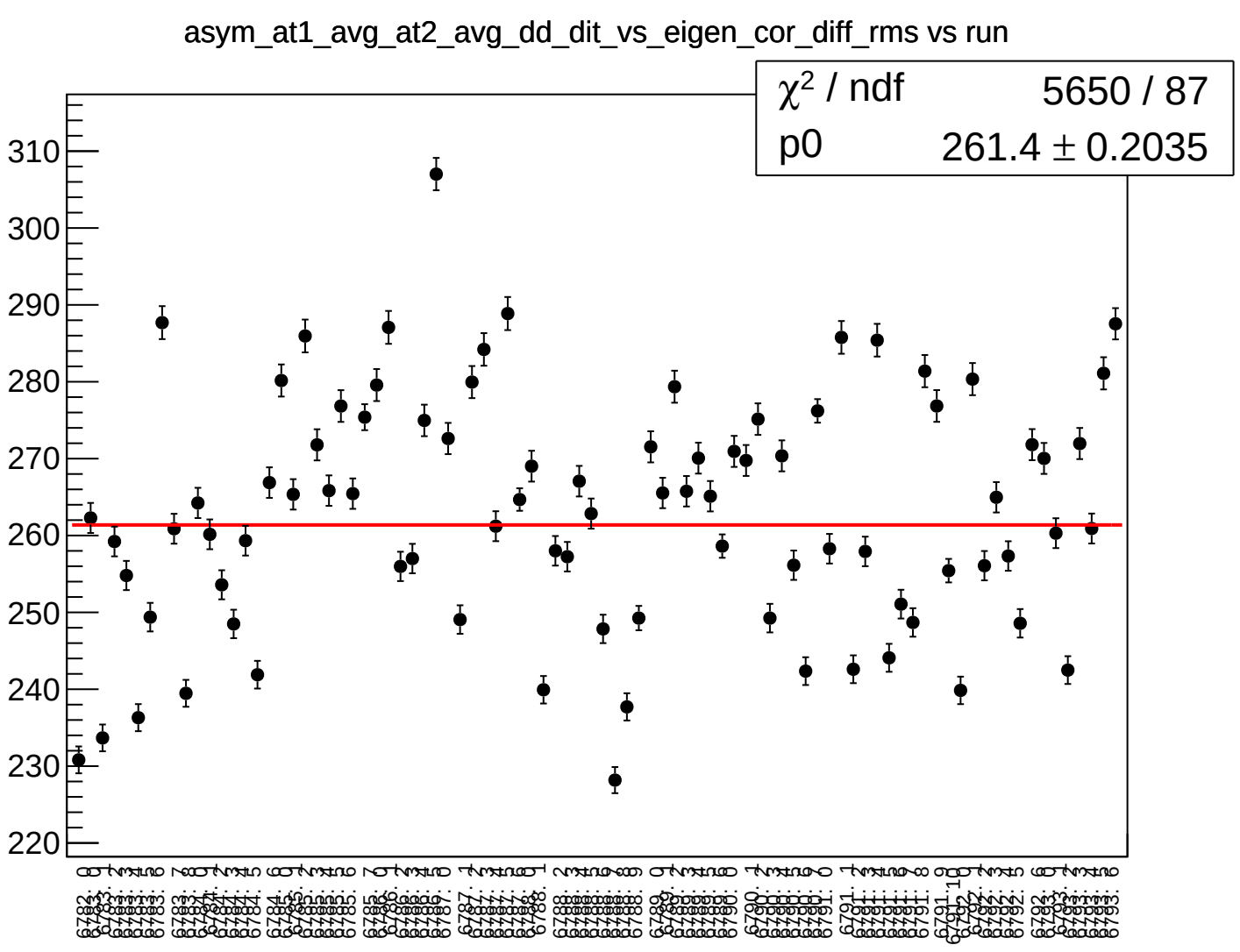

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 87
p0 5.722e−11 ± 7.59e−14
1
0.8
0.6
0.4
0.2
0

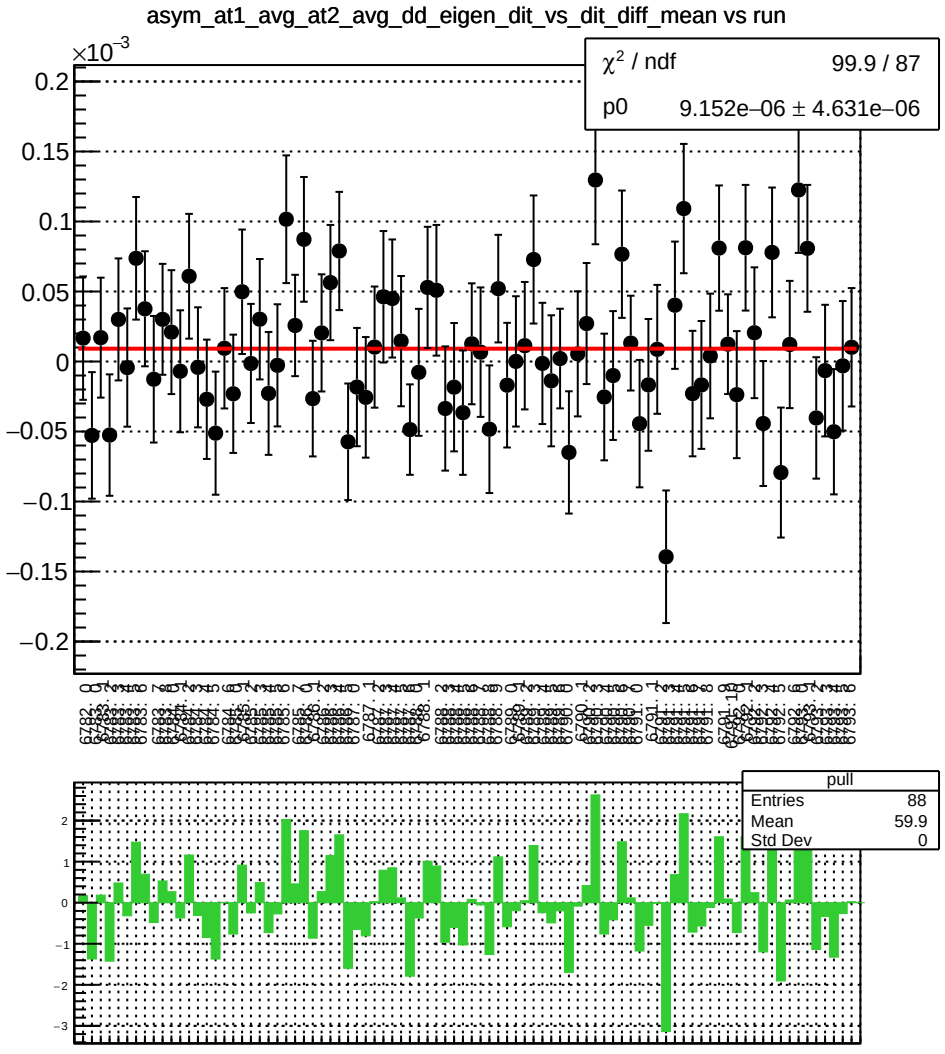

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0

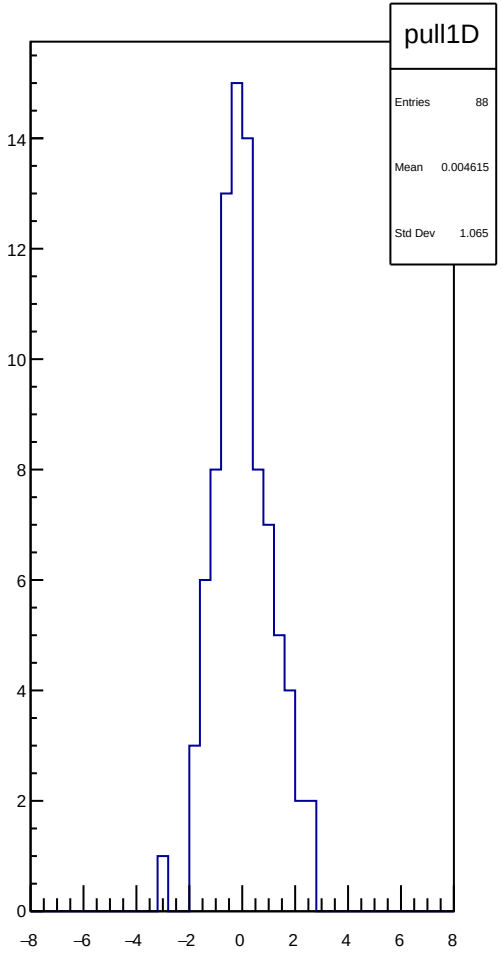

pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

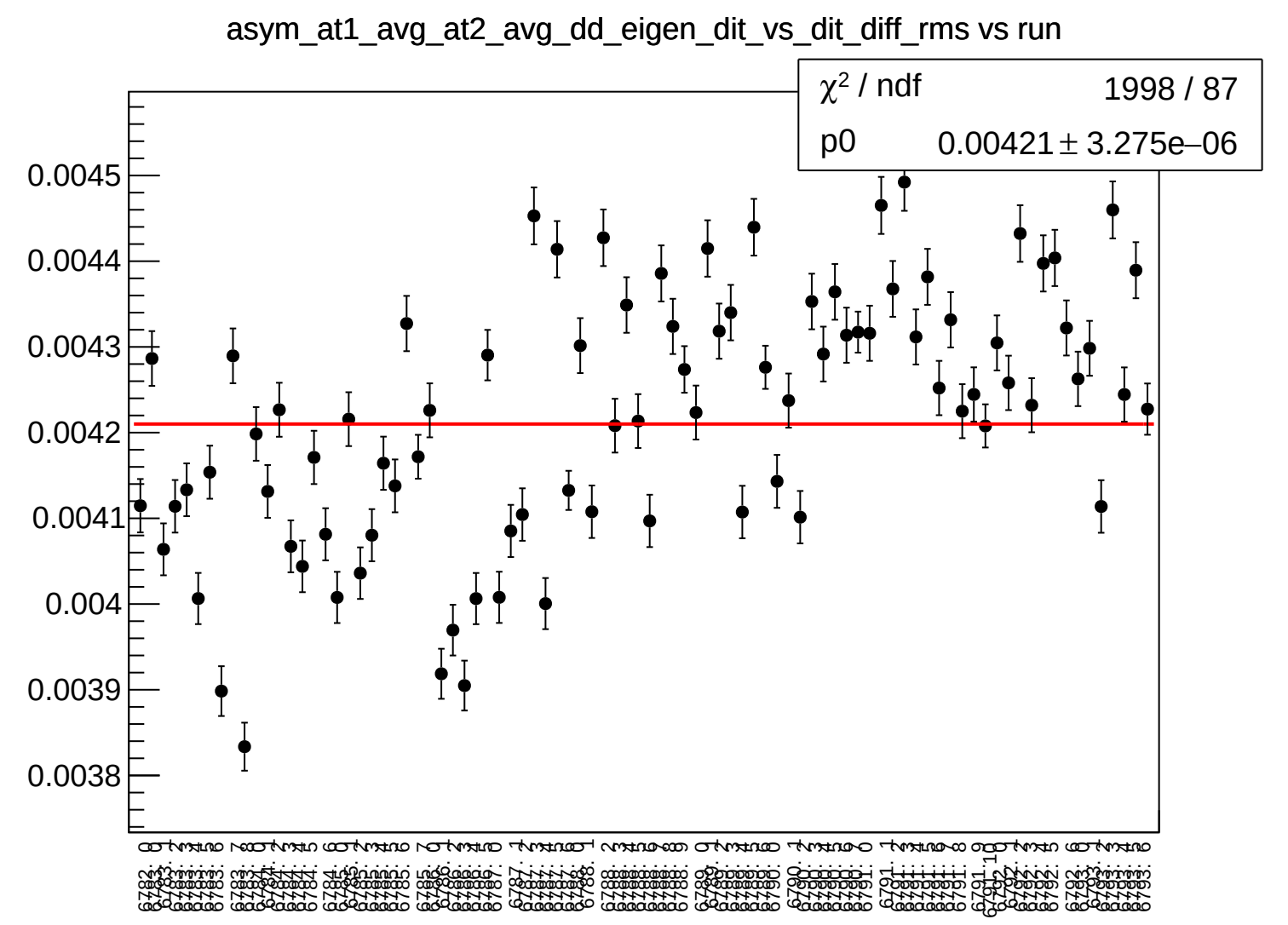

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220


asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0
pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

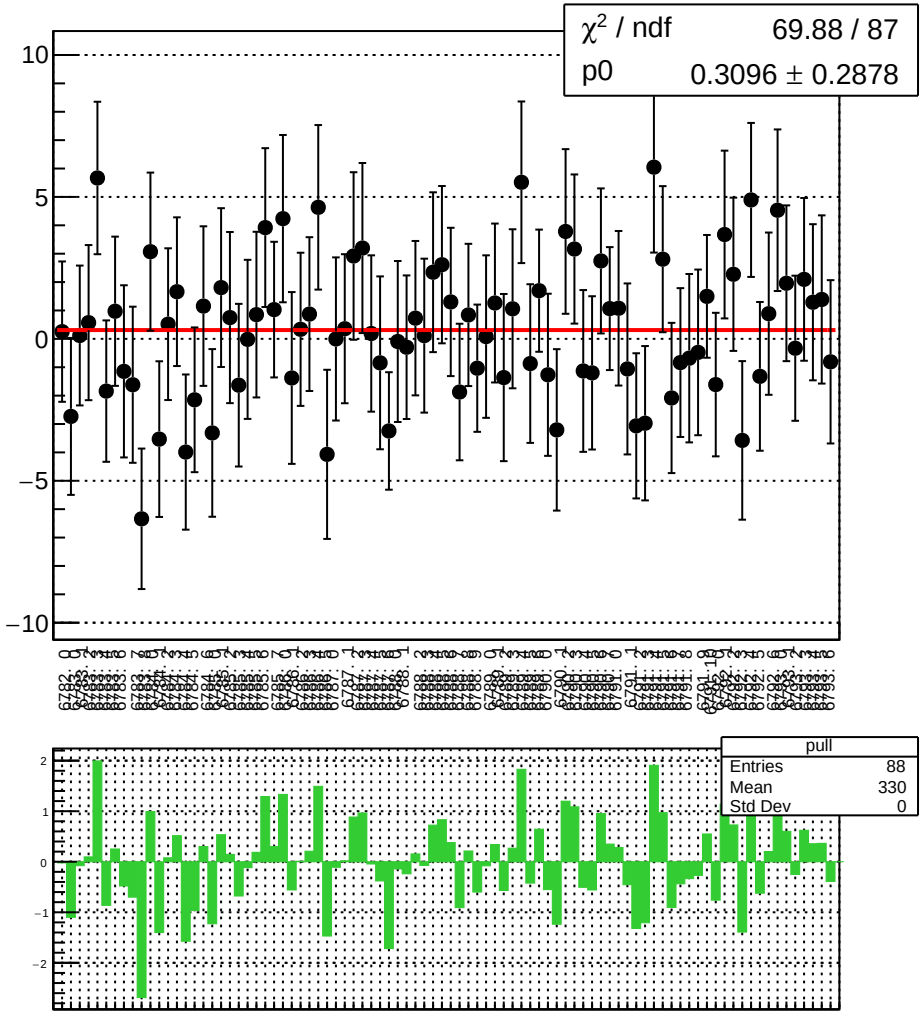

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

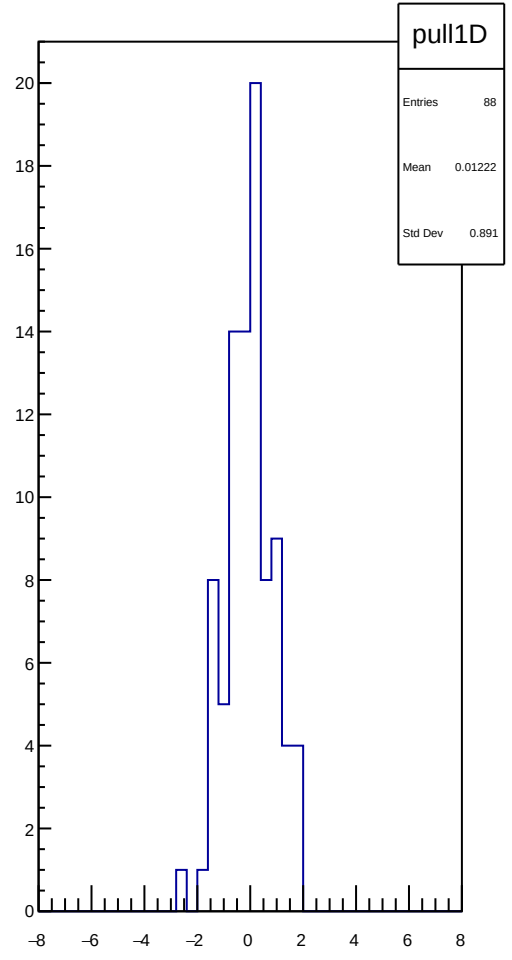

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.9 / 87
p0 9.152e−06 ± 4.631e−06
pull
Entries 88
Mean 59.9
Std Dev 0

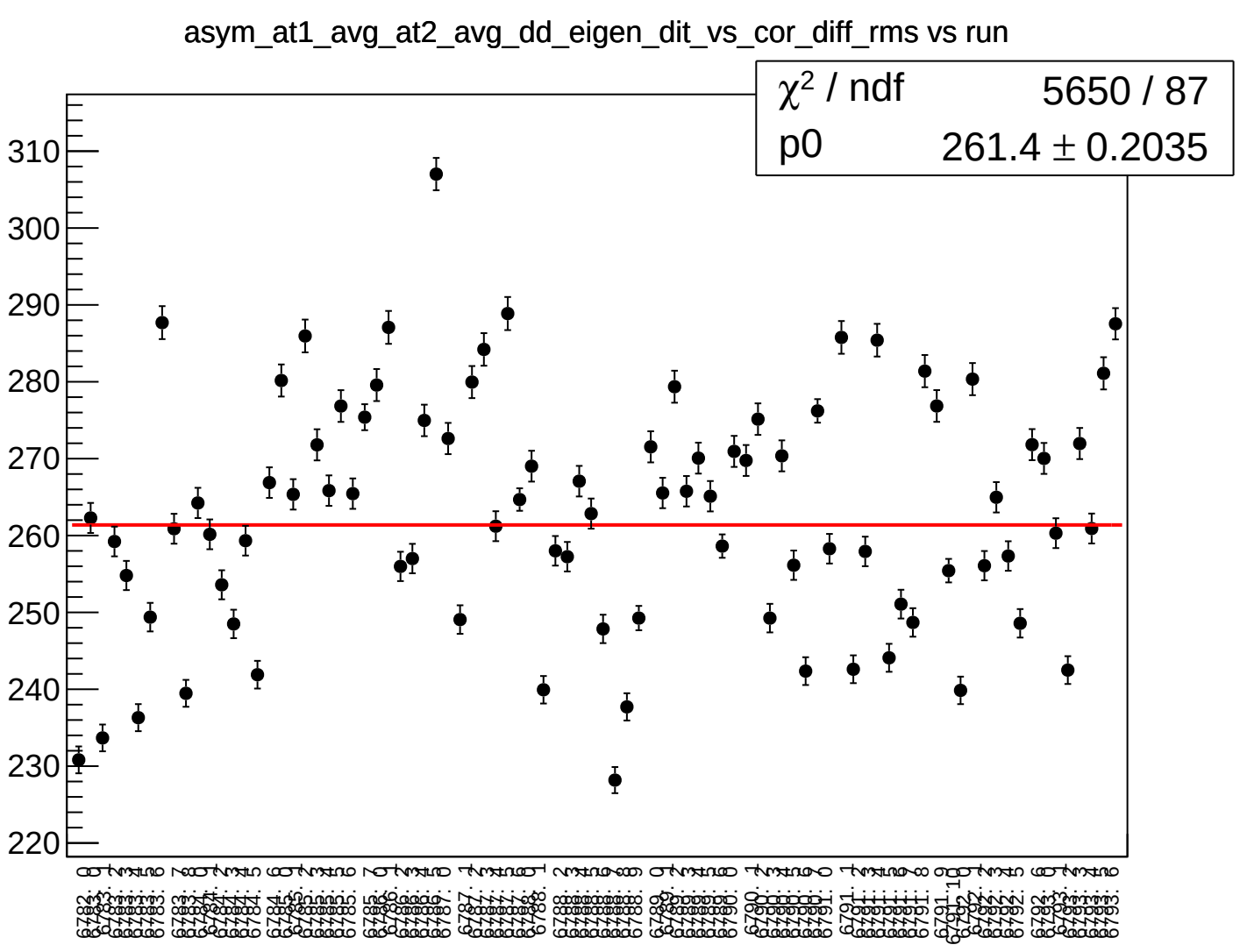

pull1D
Entries 88
Mean 0.004615
Std Dev 1.065

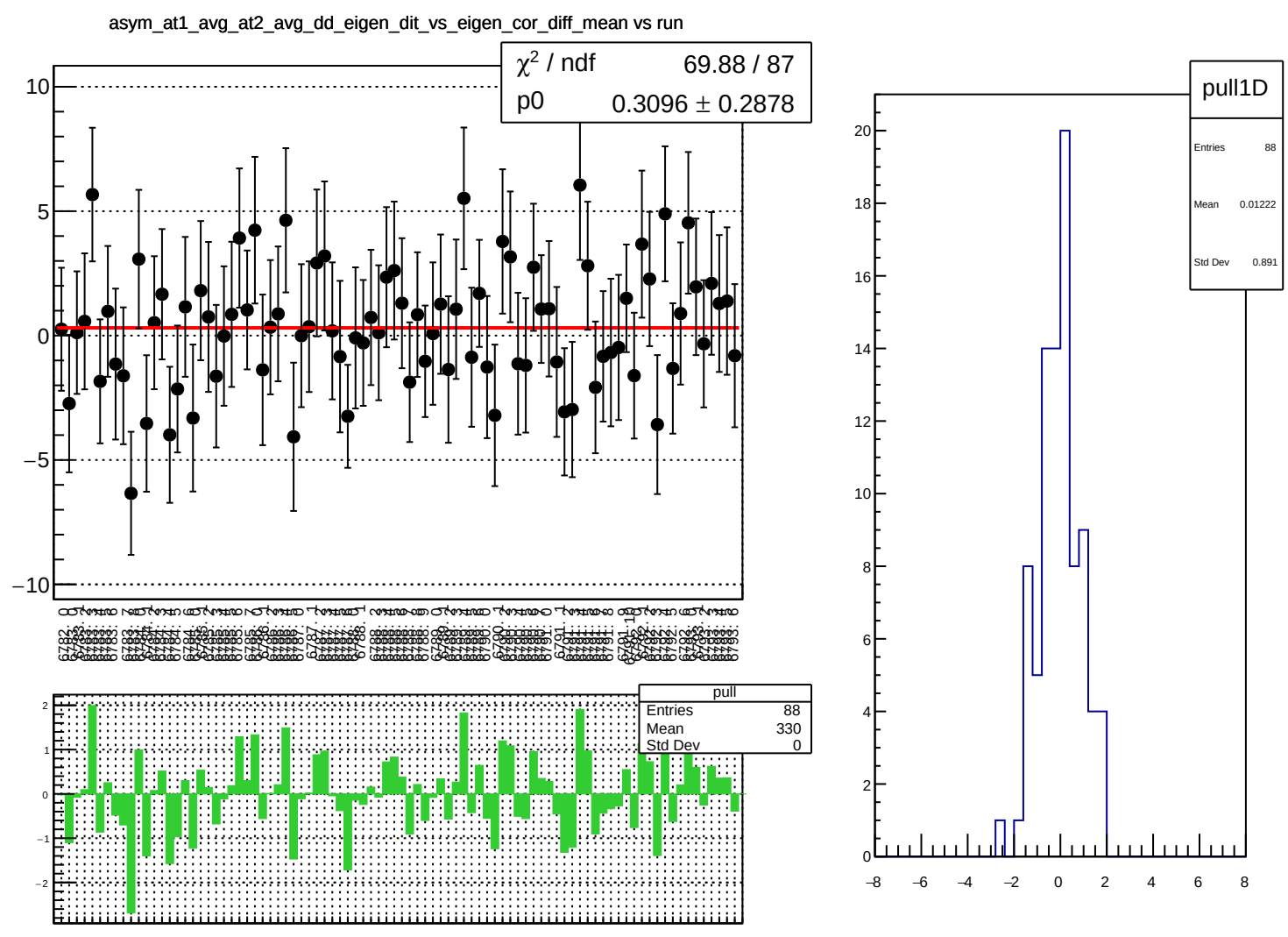

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1998 / 87
p0 0.00421 ± 3.275e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038

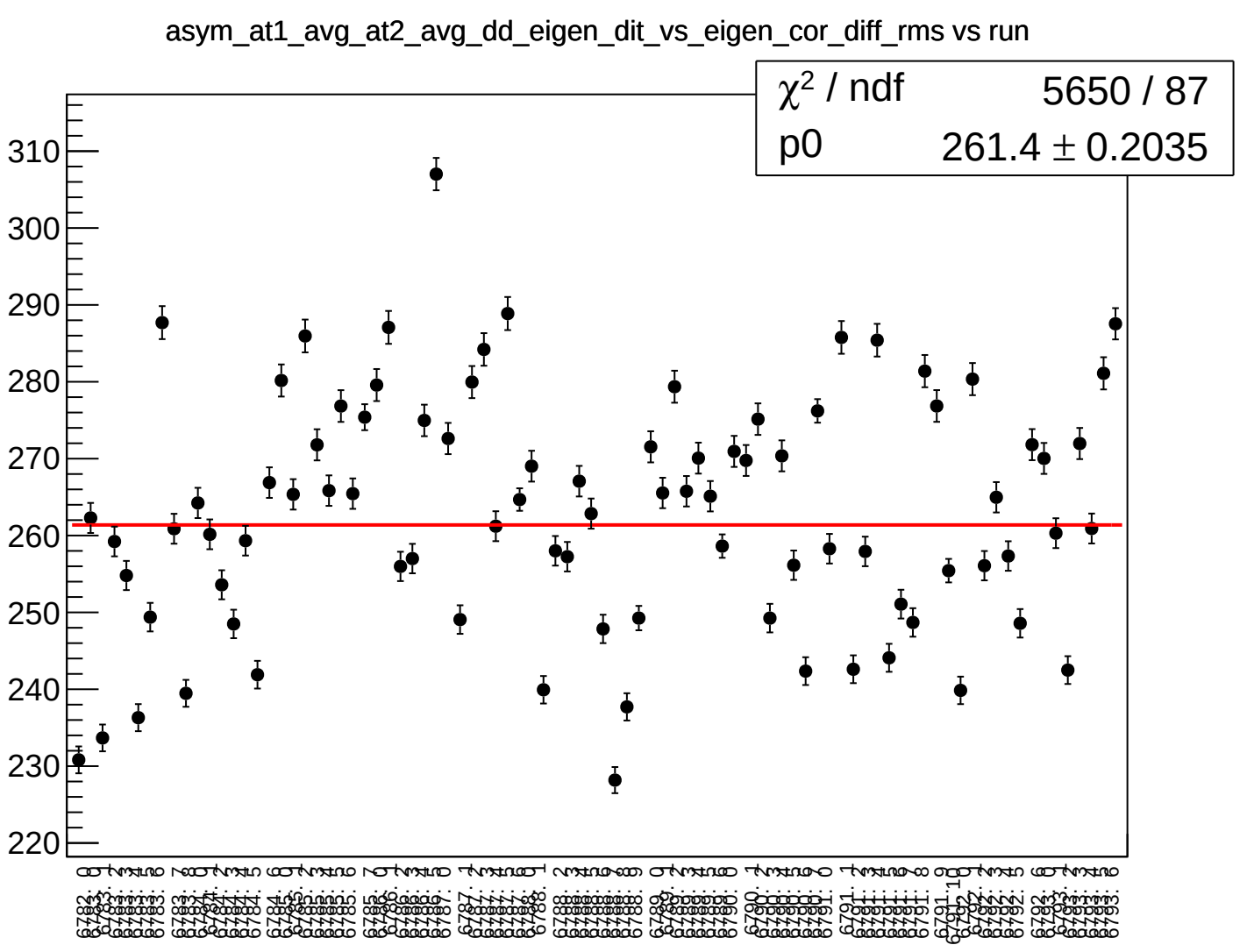
asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run

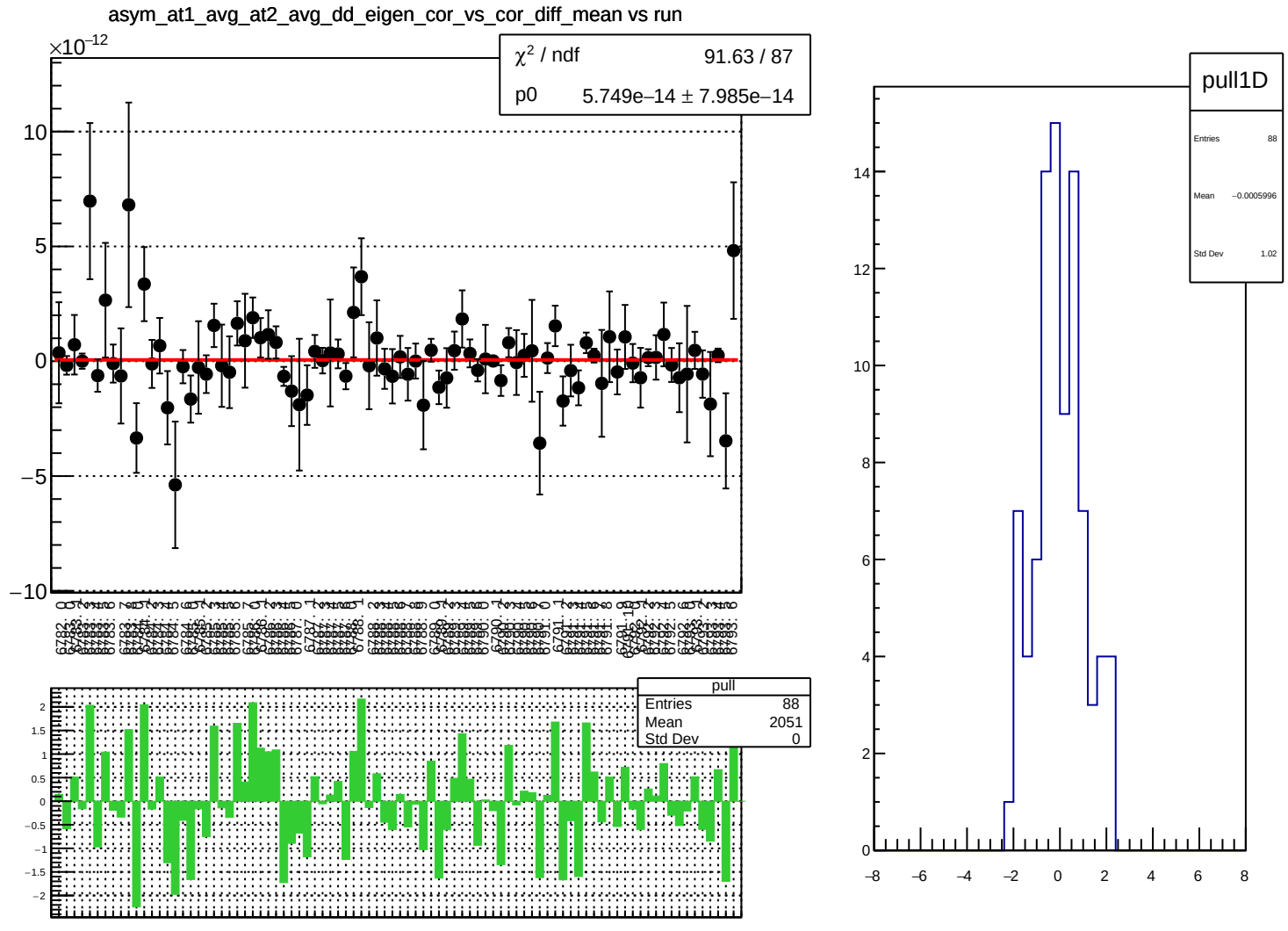


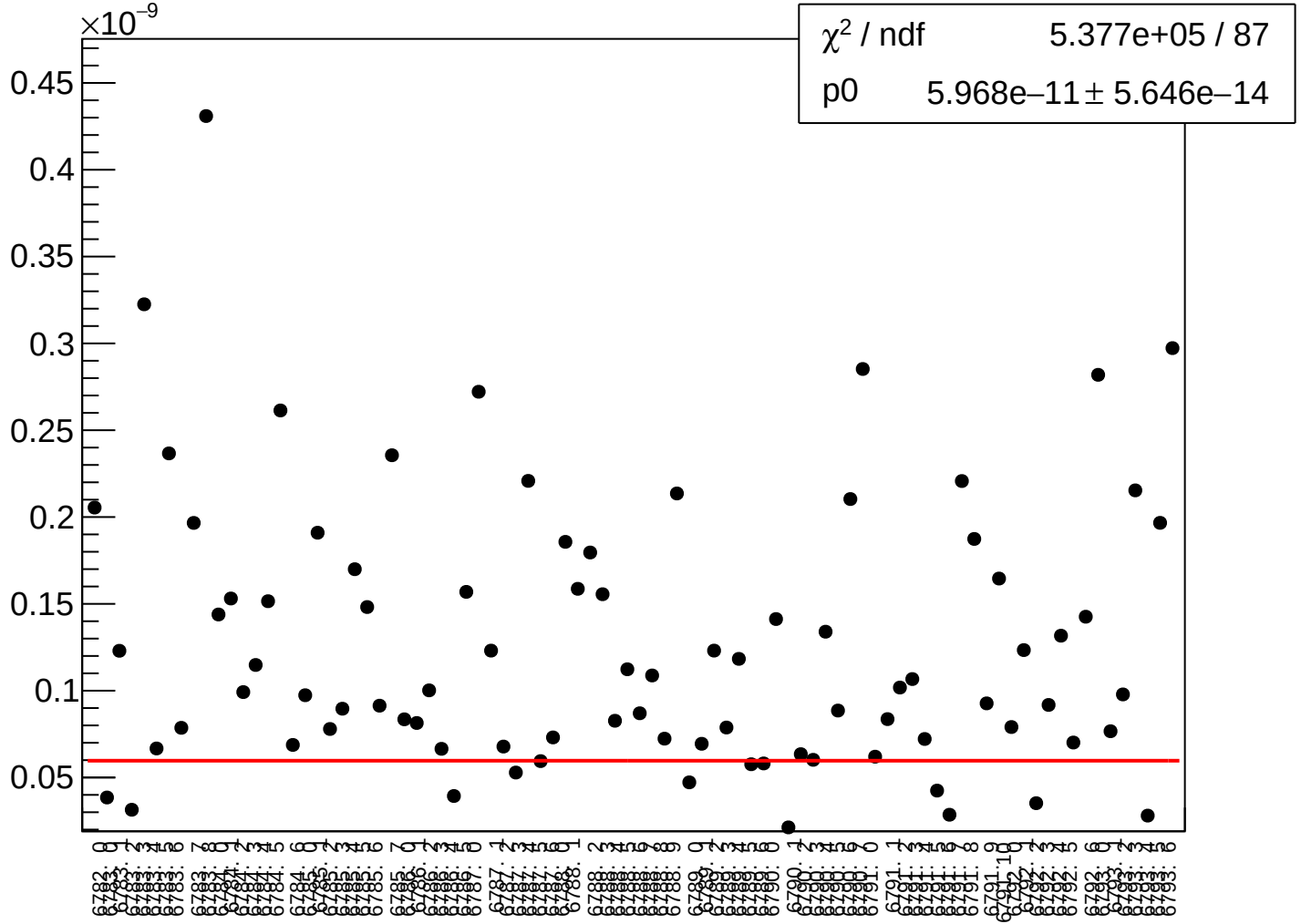


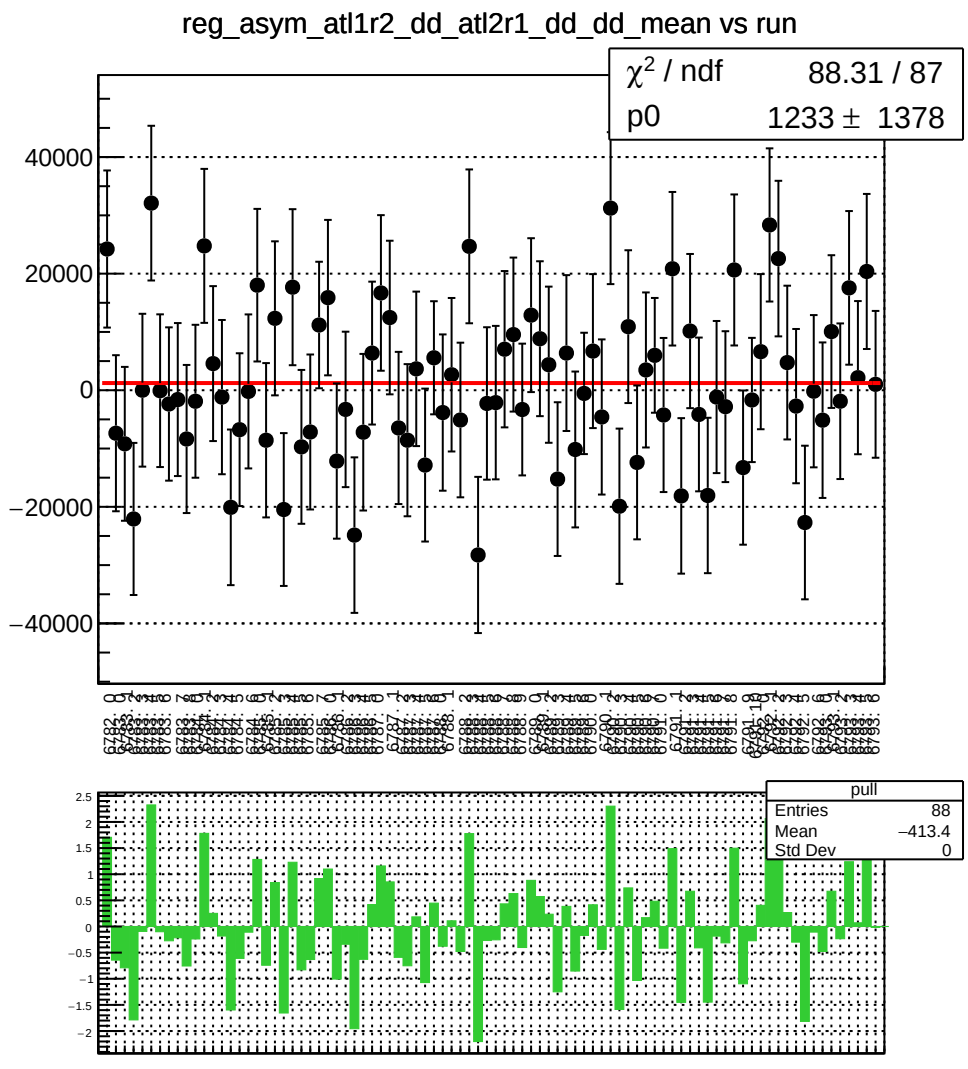

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

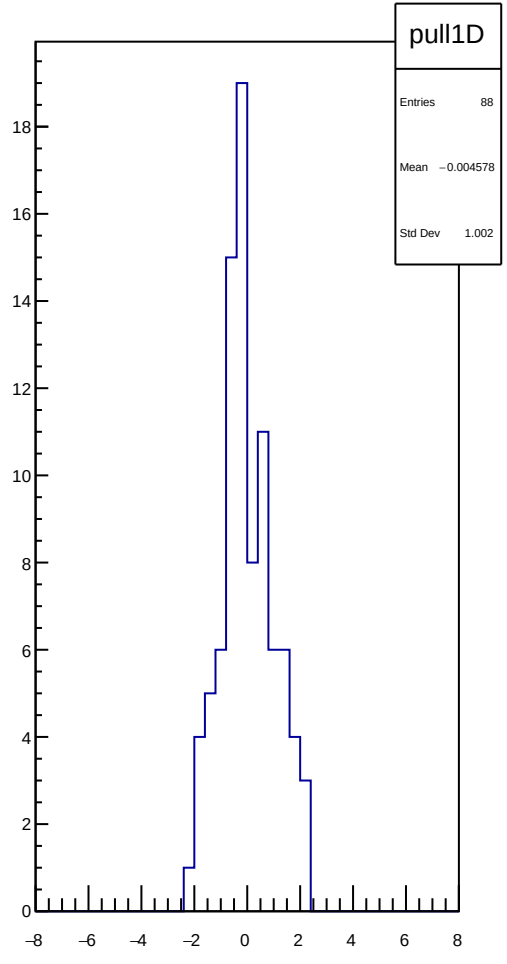

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0
pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

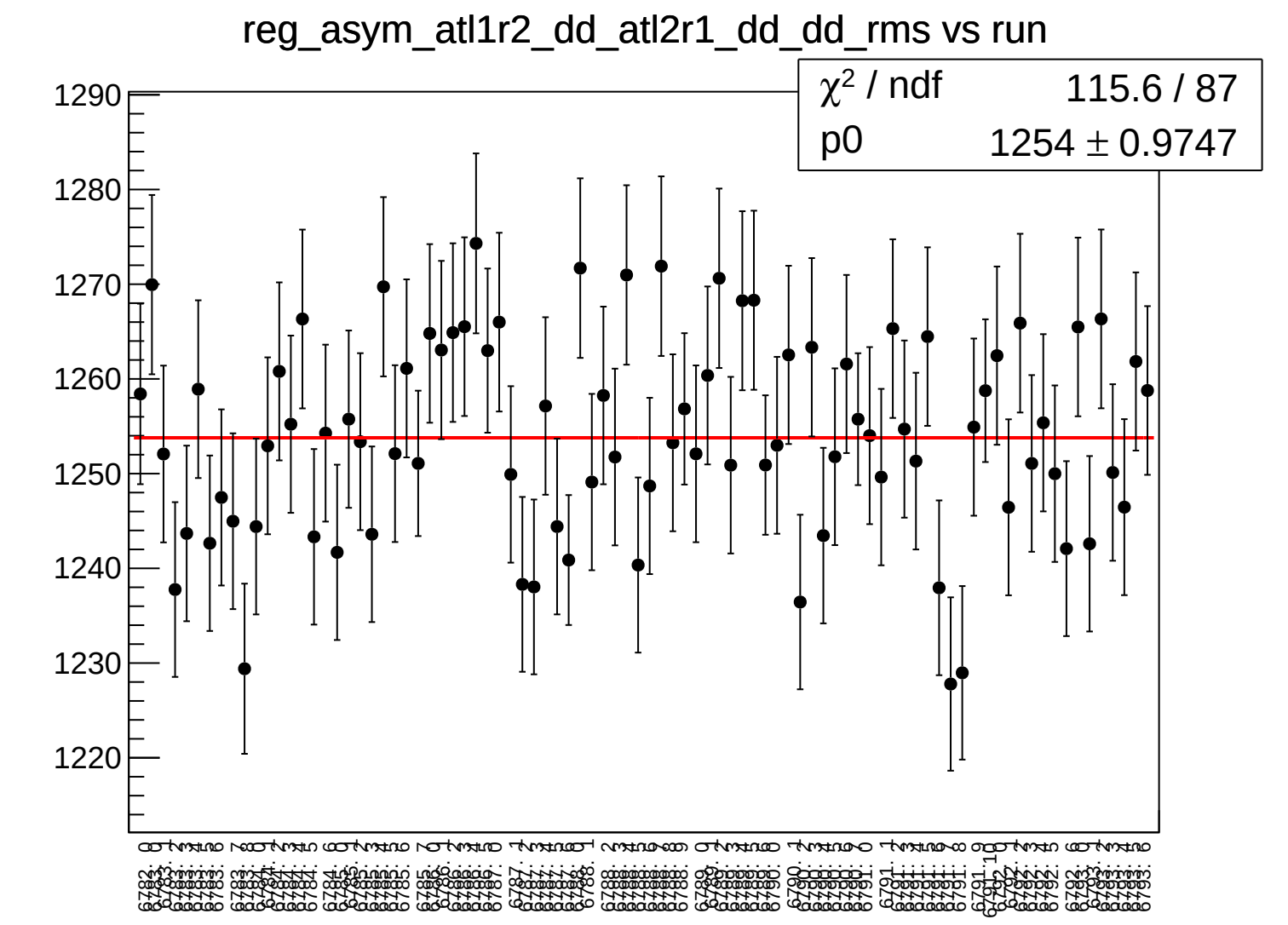

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

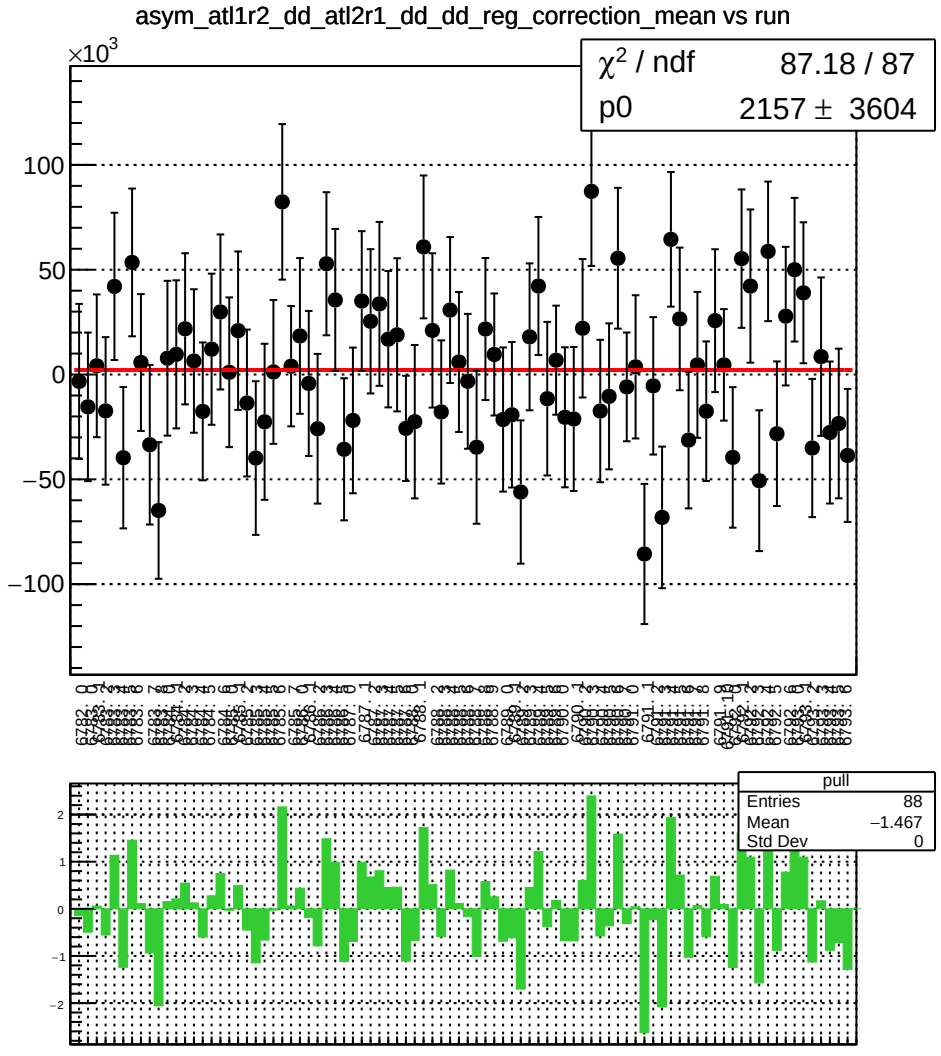

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.63 / 87
p0 5.749e−14 ± 7.985e−14
pull
Entries 88
Mean 2051
Std Dev 0
pull1D
Entries 88
Mean −0.0005996
Std Dev 1.02

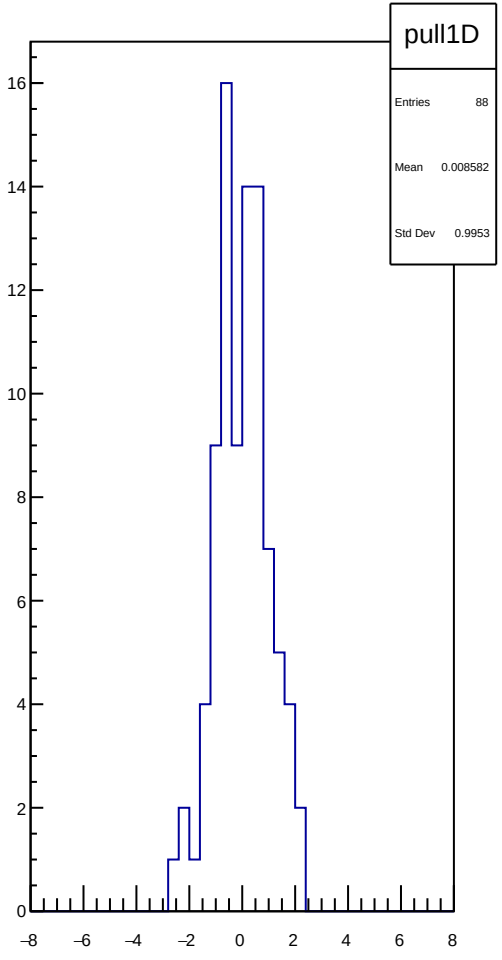

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.377e+05 / 87
p0 5.968e−11 ± 5.646e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

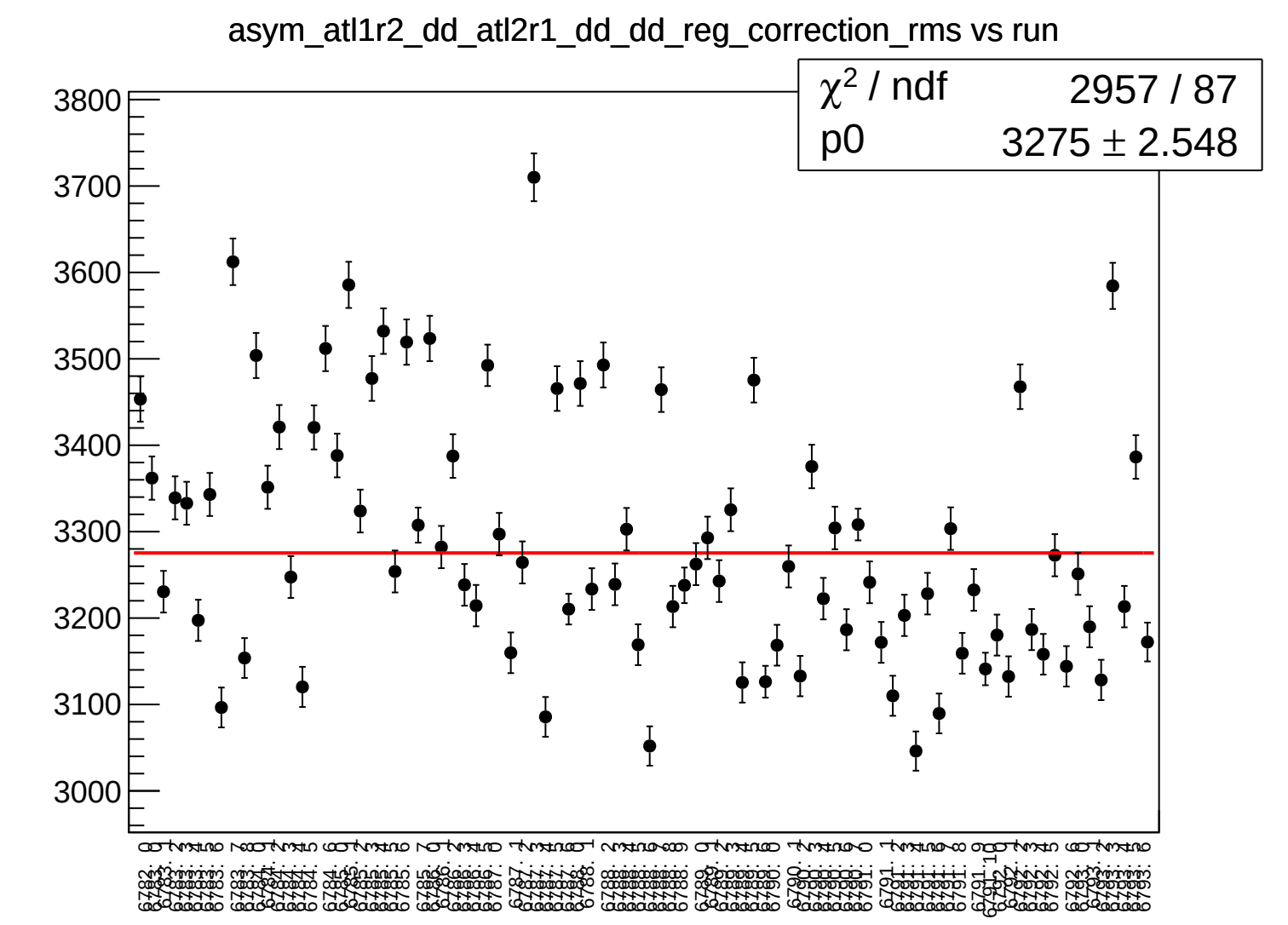

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.31 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

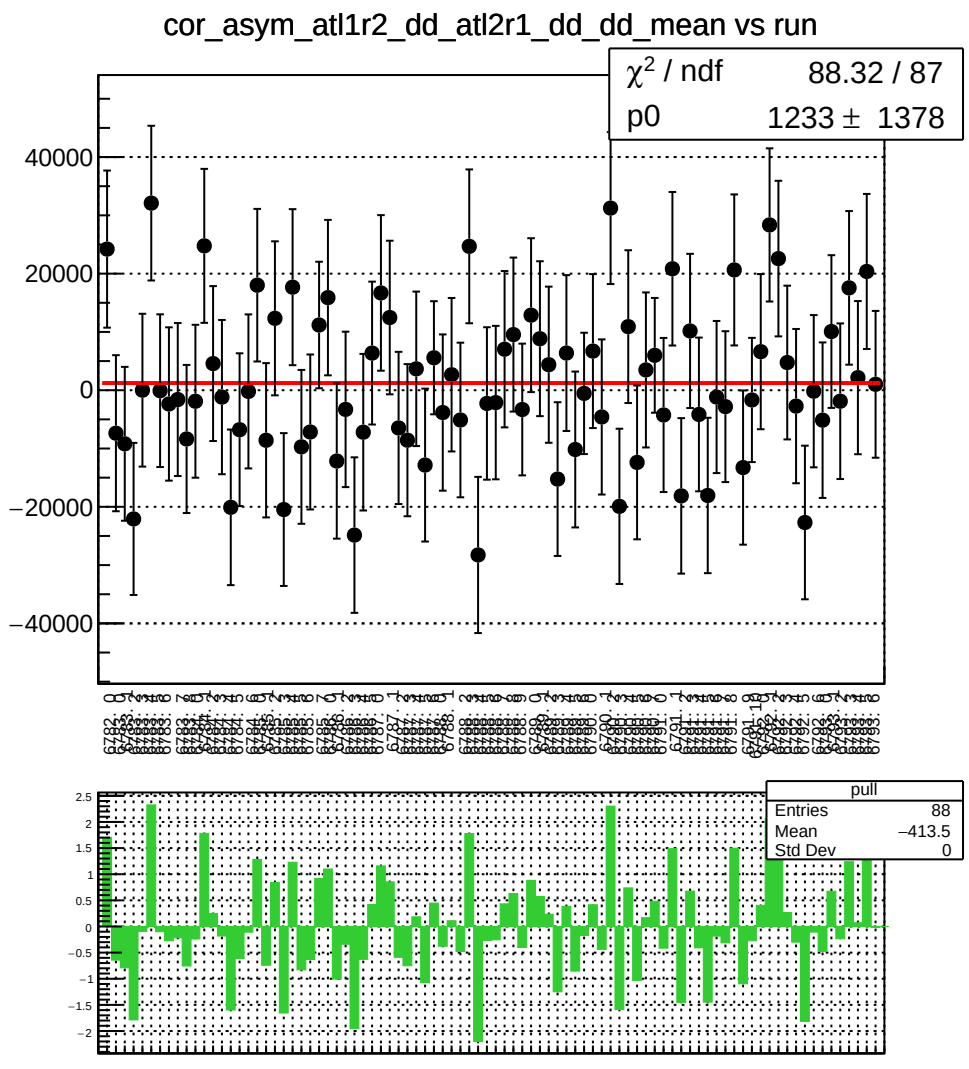

pull1D
Entries 88
Mean −0.004578
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

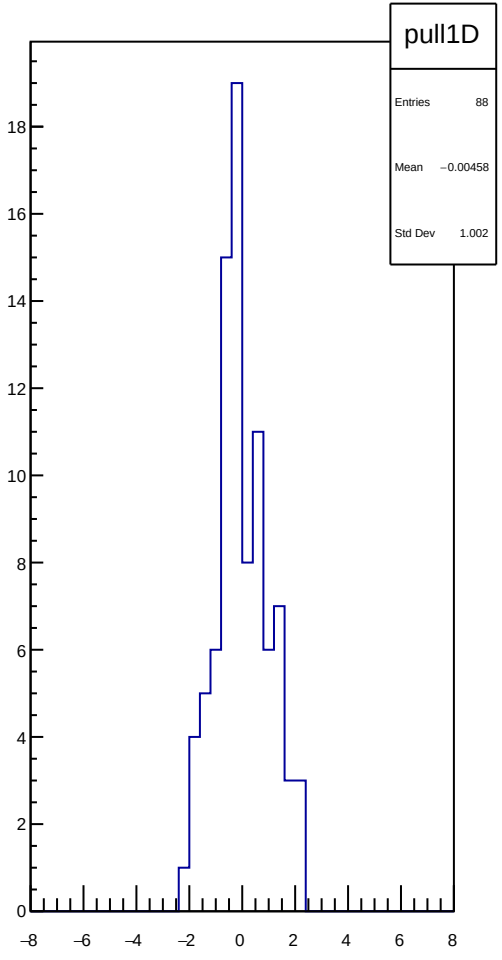

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

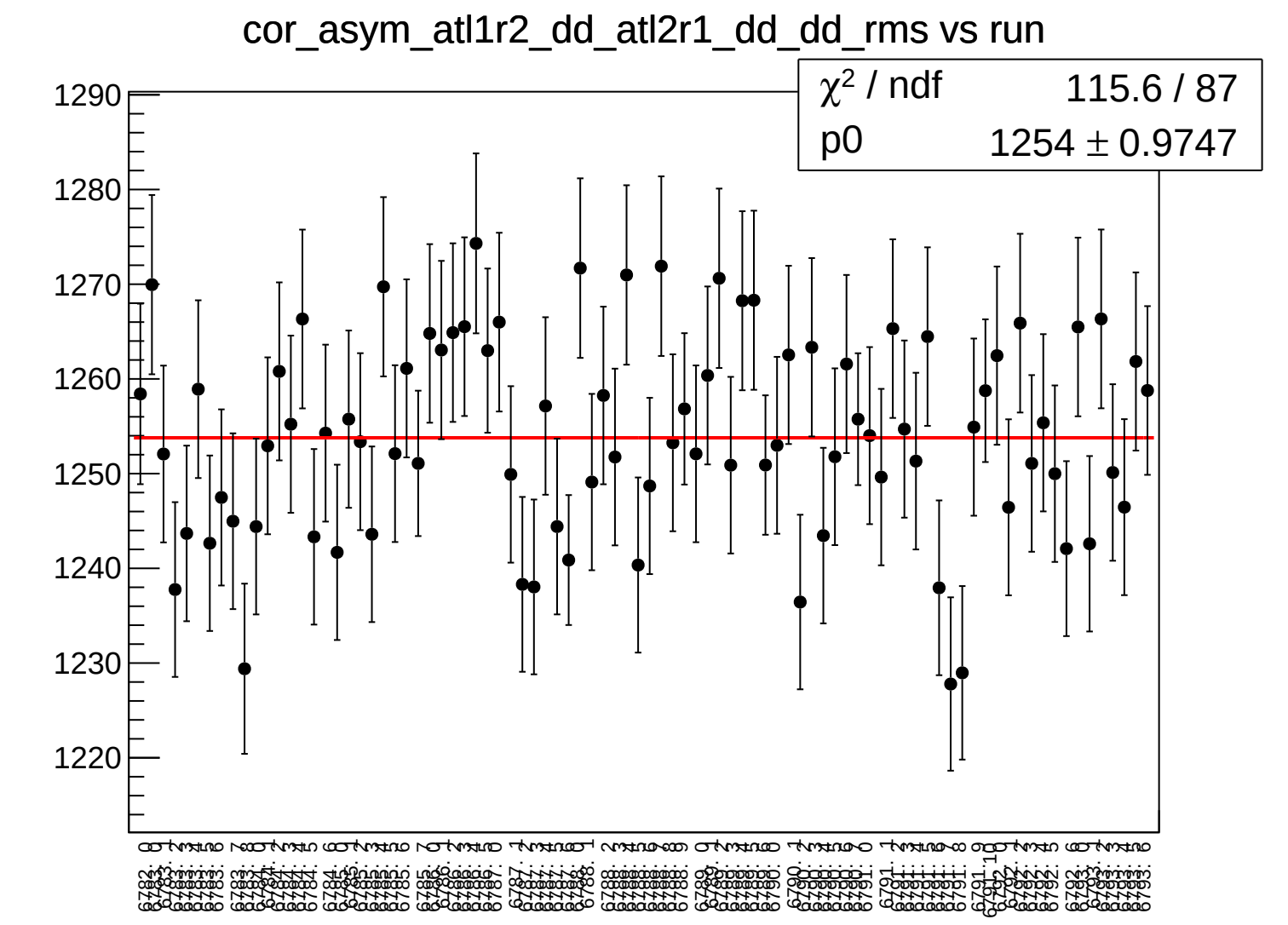

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 87.18 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.467
Std Dev 0
2
1
0
−1
−2

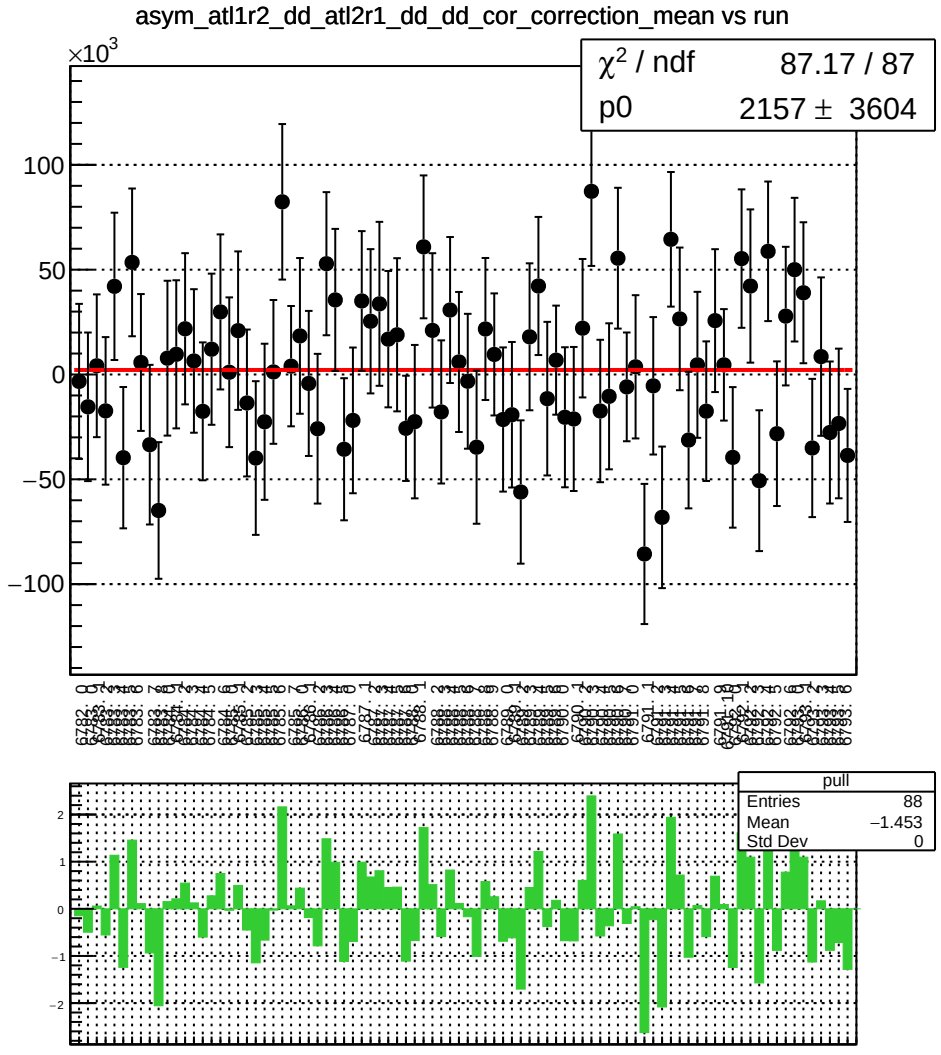

pull1D
Entries 88
Mean 0.008582
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

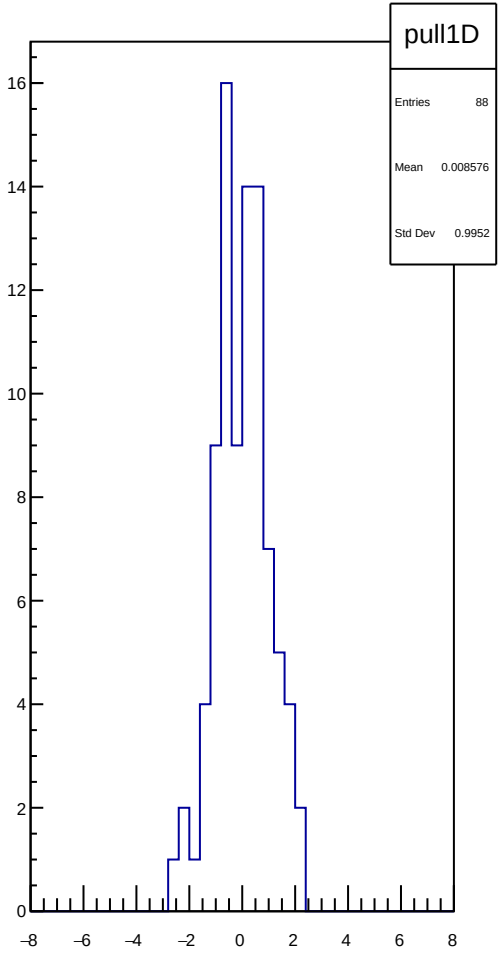

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

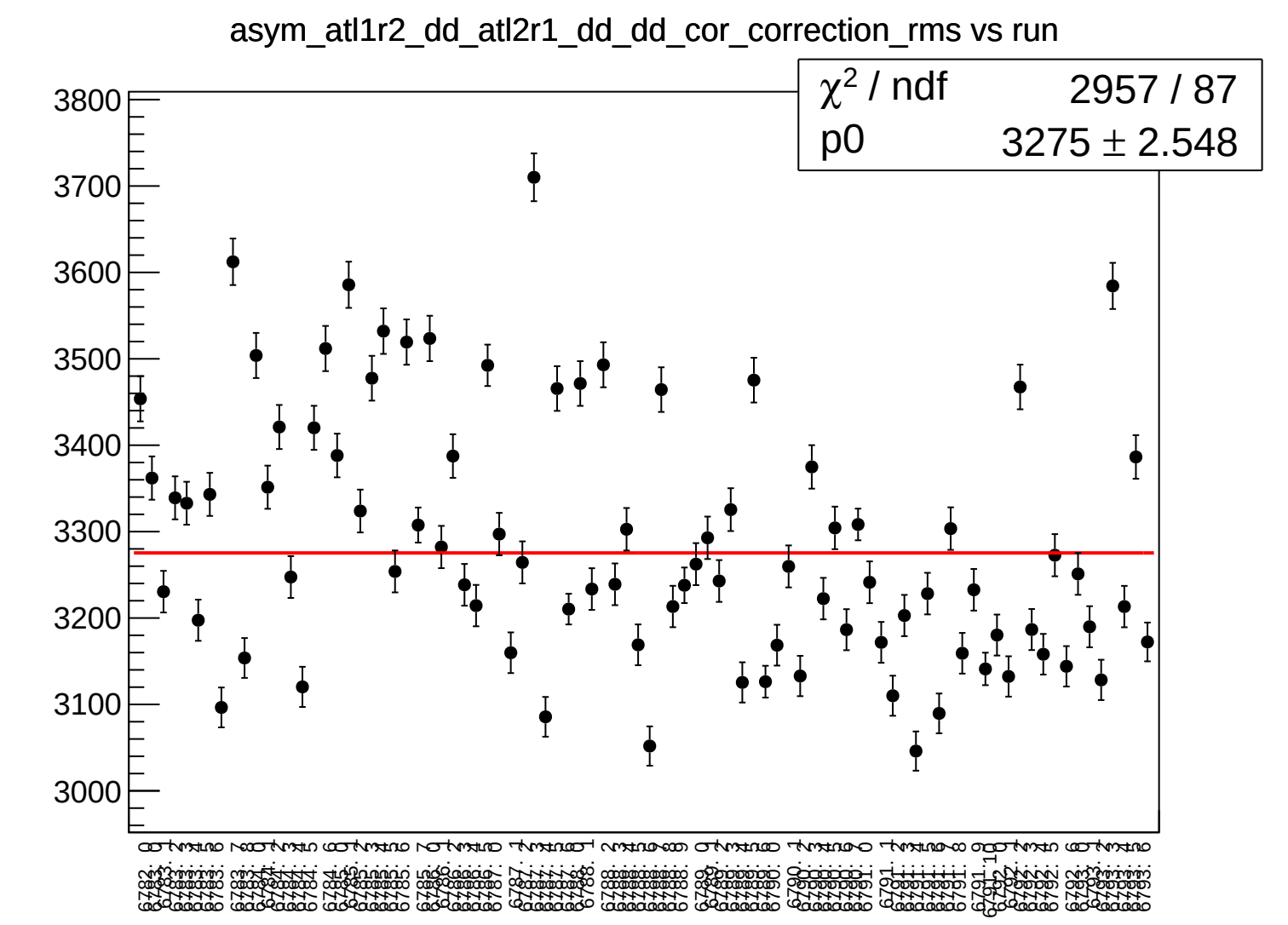

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.32 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

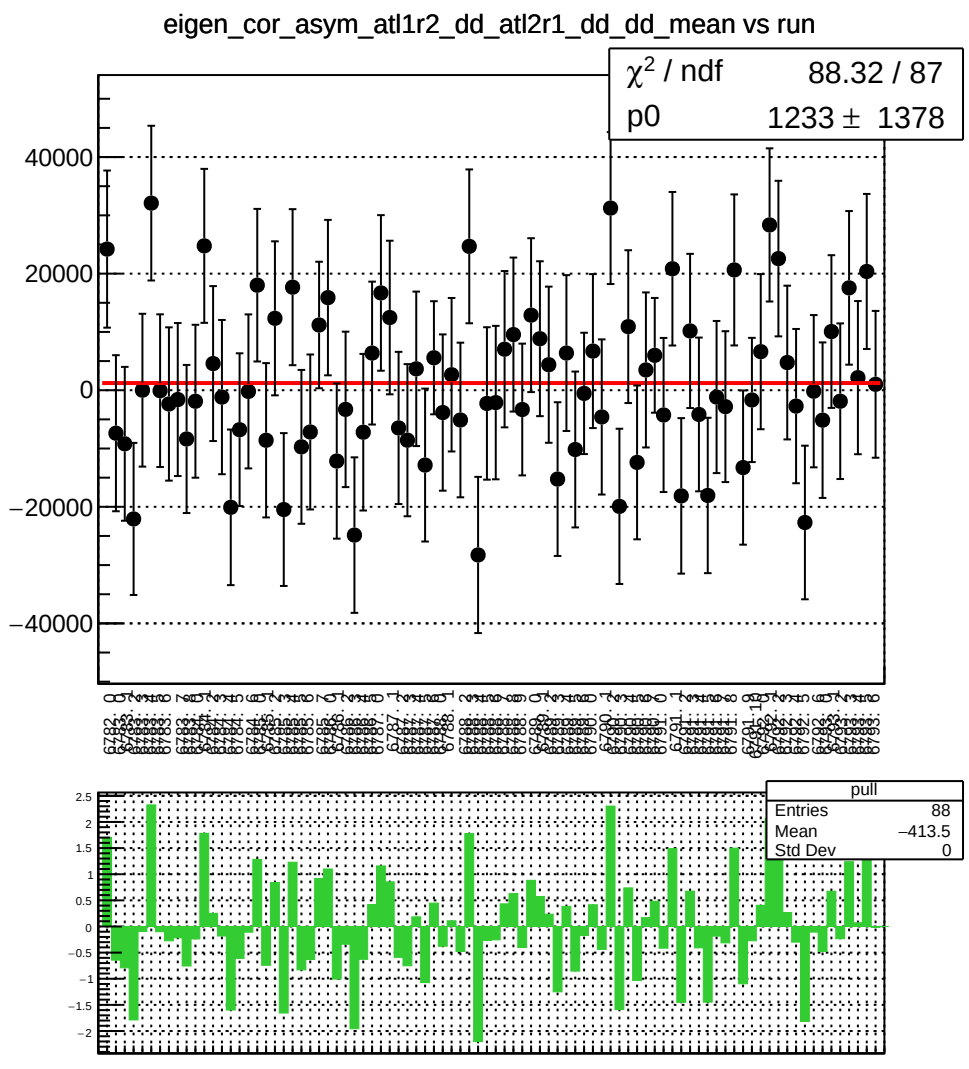

pull1D
Entries 88
Mean −0.00458
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

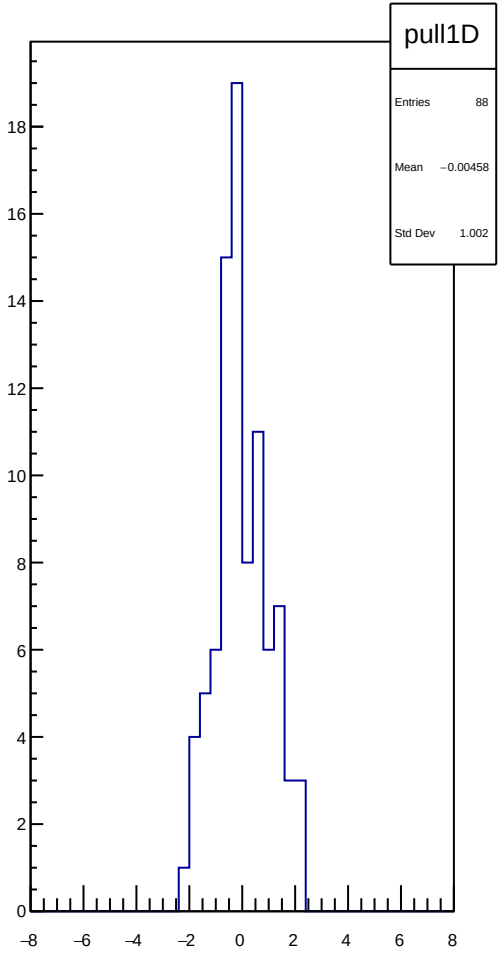

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

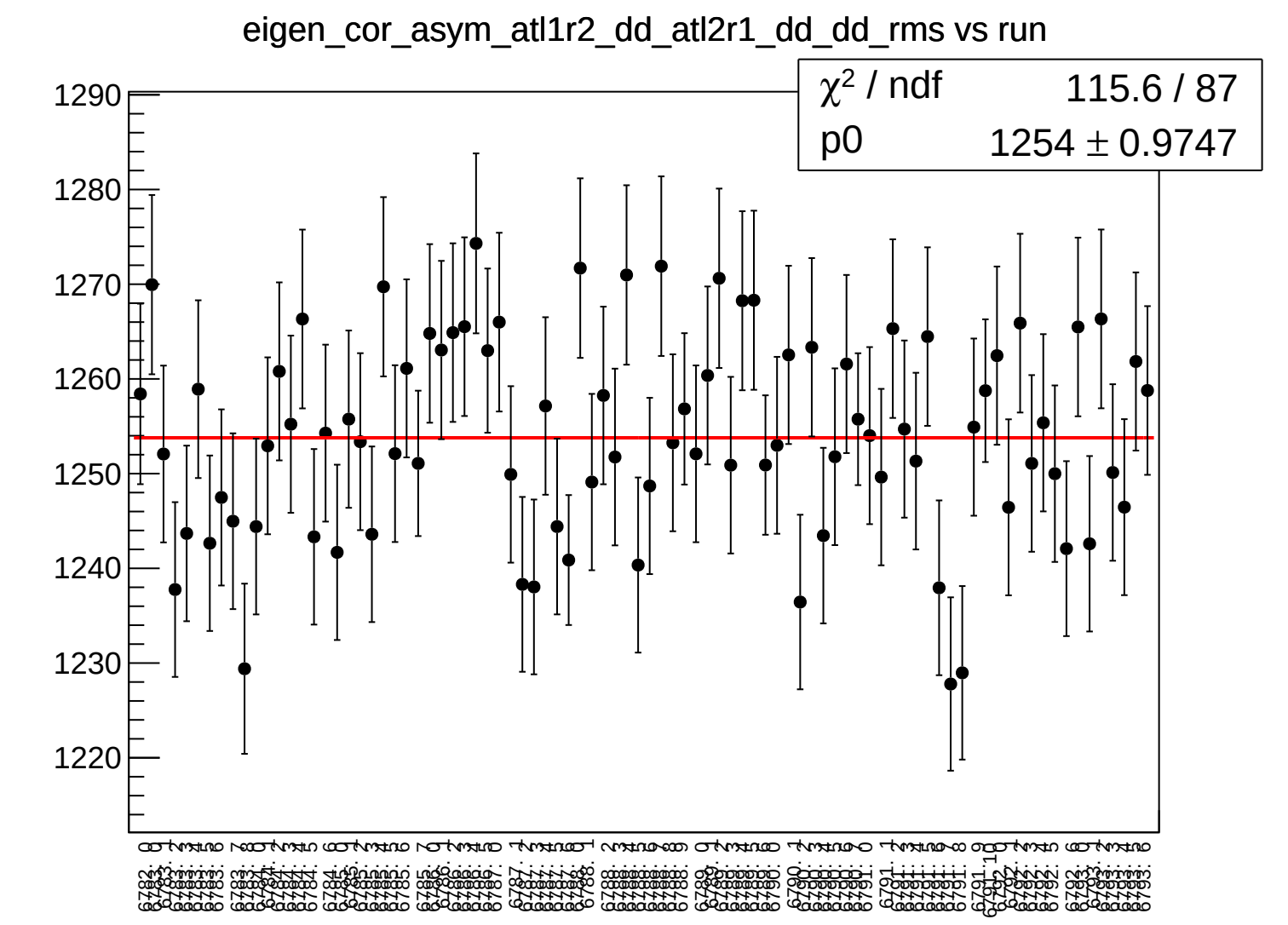

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.17 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.453
Std Dev 0
2
1
0
−1
−2

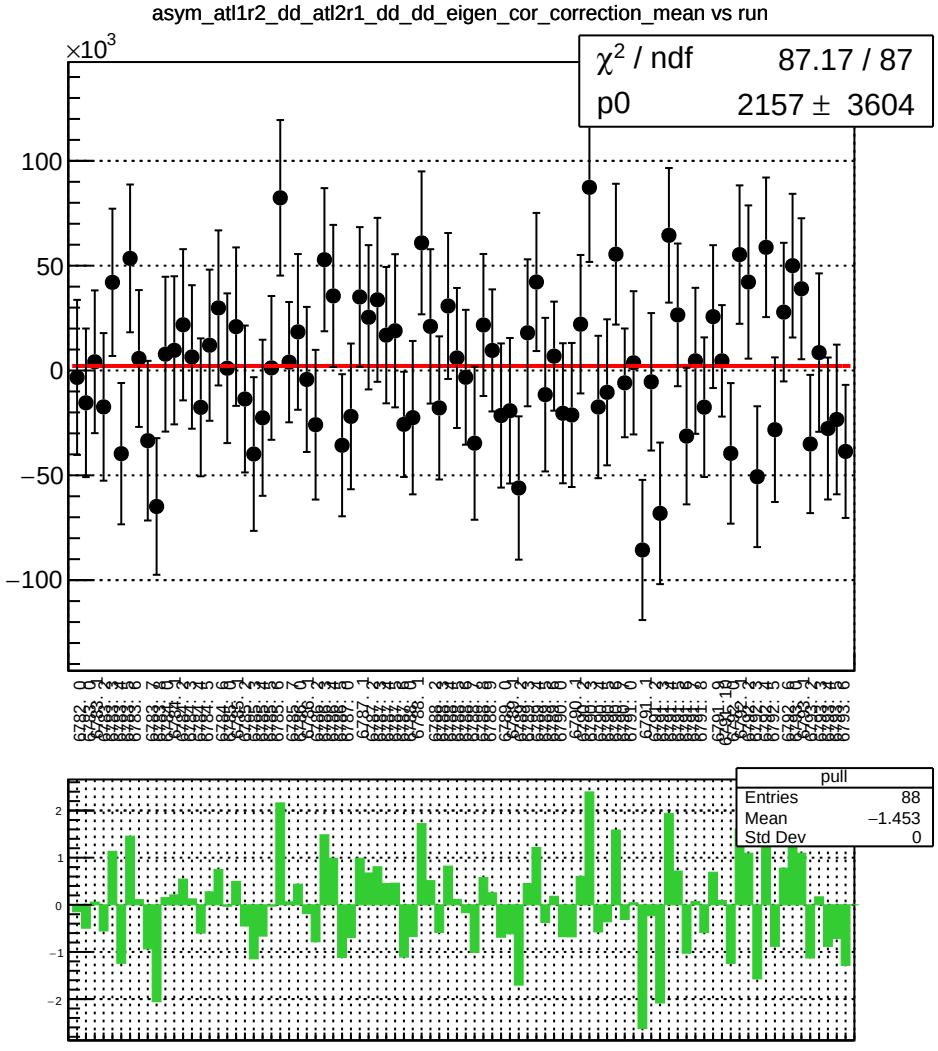

pull1D
Entries 88
Mean 0.008576
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

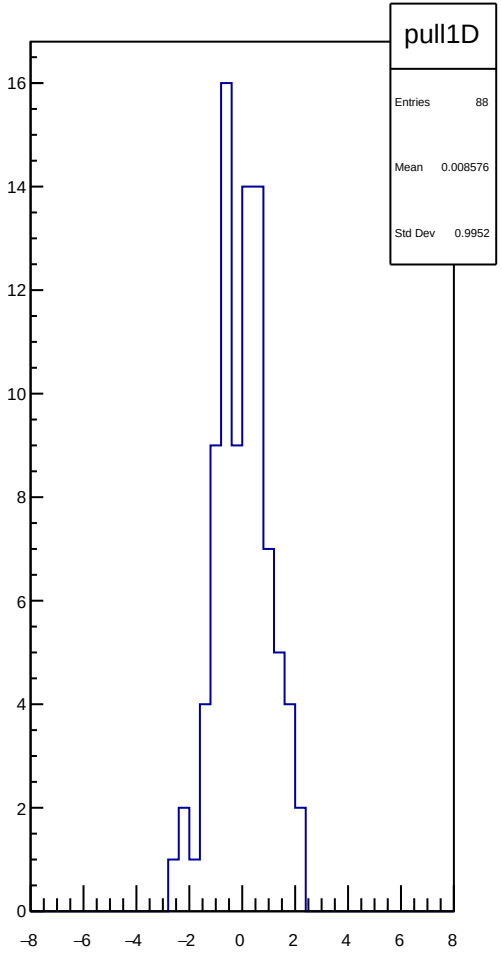

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

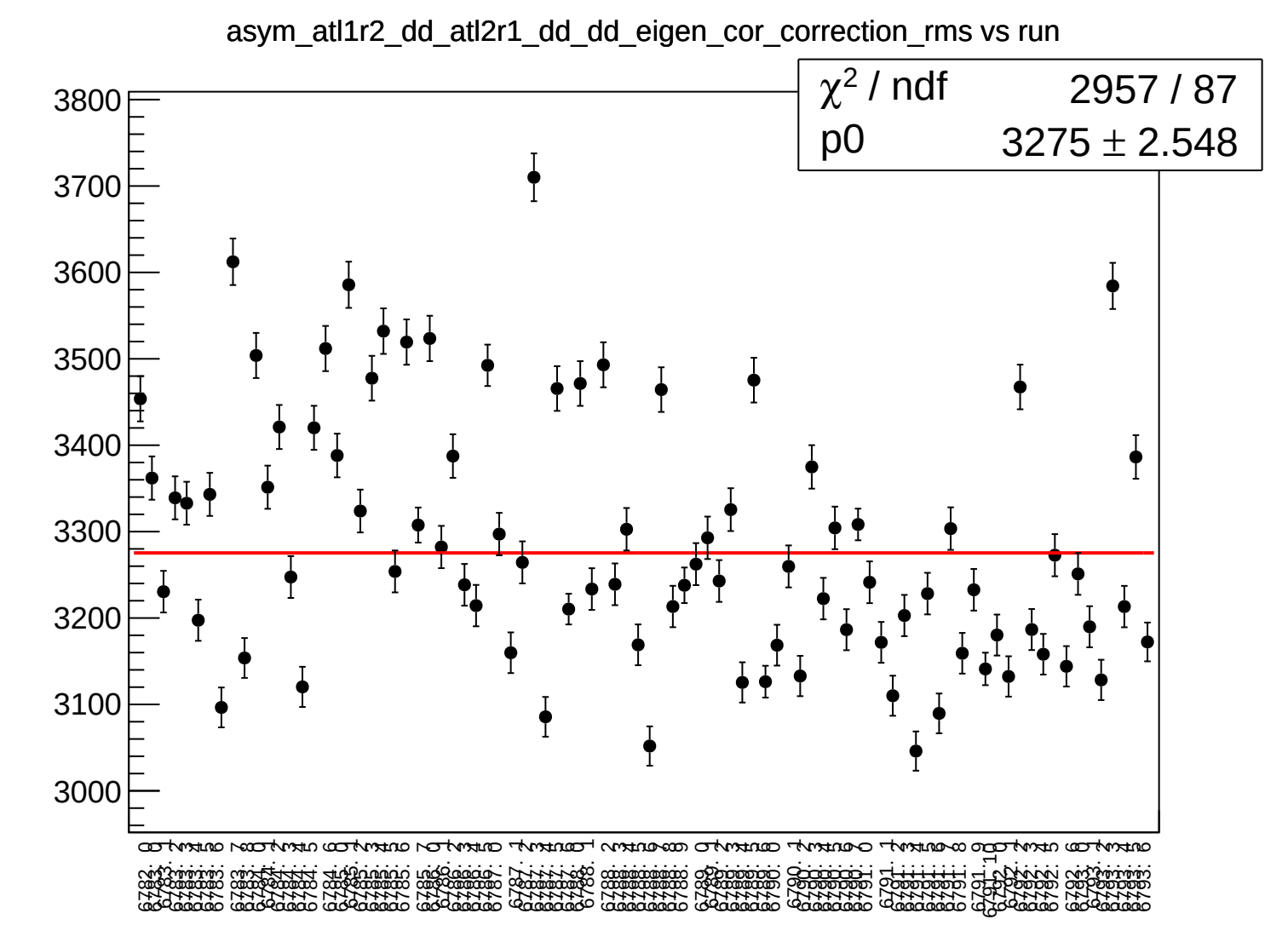

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.32 / 87
p0 1233 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −413.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

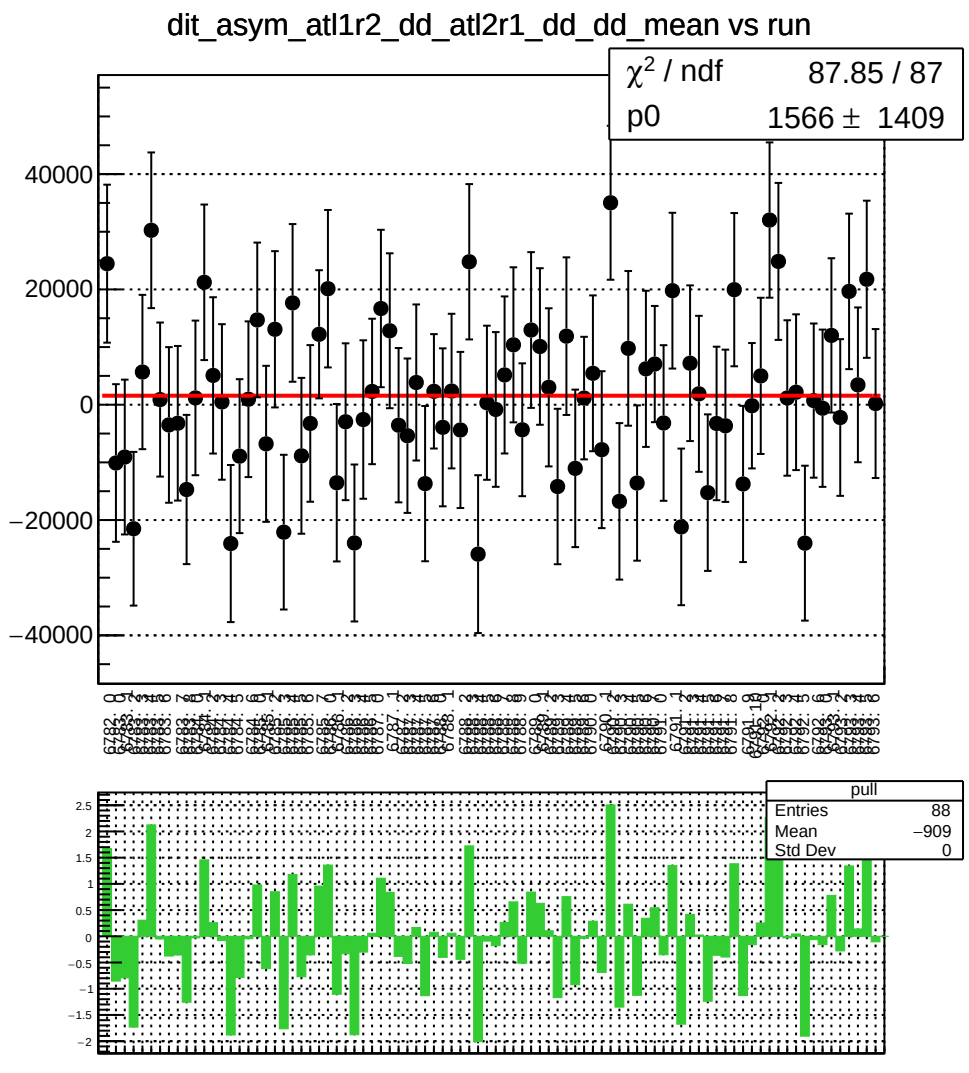

pull1D
Entries 88
Mean −0.00458
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

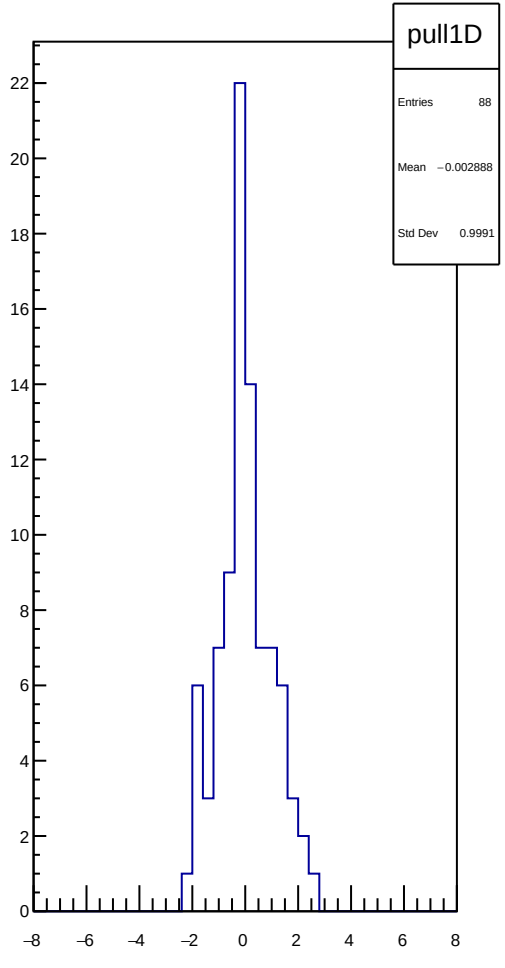

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 115.6 / 87
p0 1254 ± 0.9747
1290
1280
1270
1260
1250
1240
1230
1220

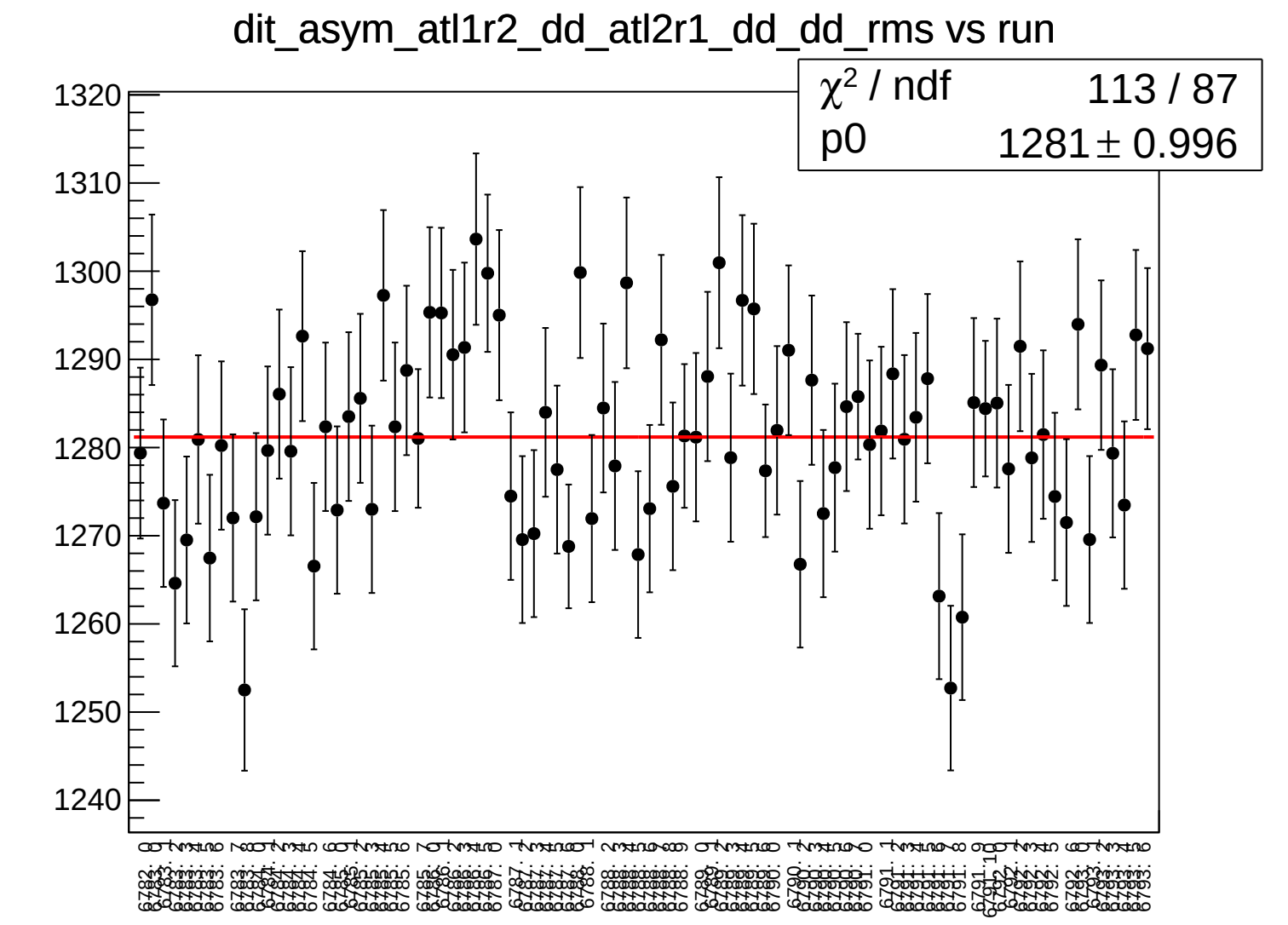

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.17 / 87
p0 2157 ± 3604
100
50
0
−50
−100
pull
Entries 88
Mean −1.453
Std Dev 0
2
1
0
−1
−2

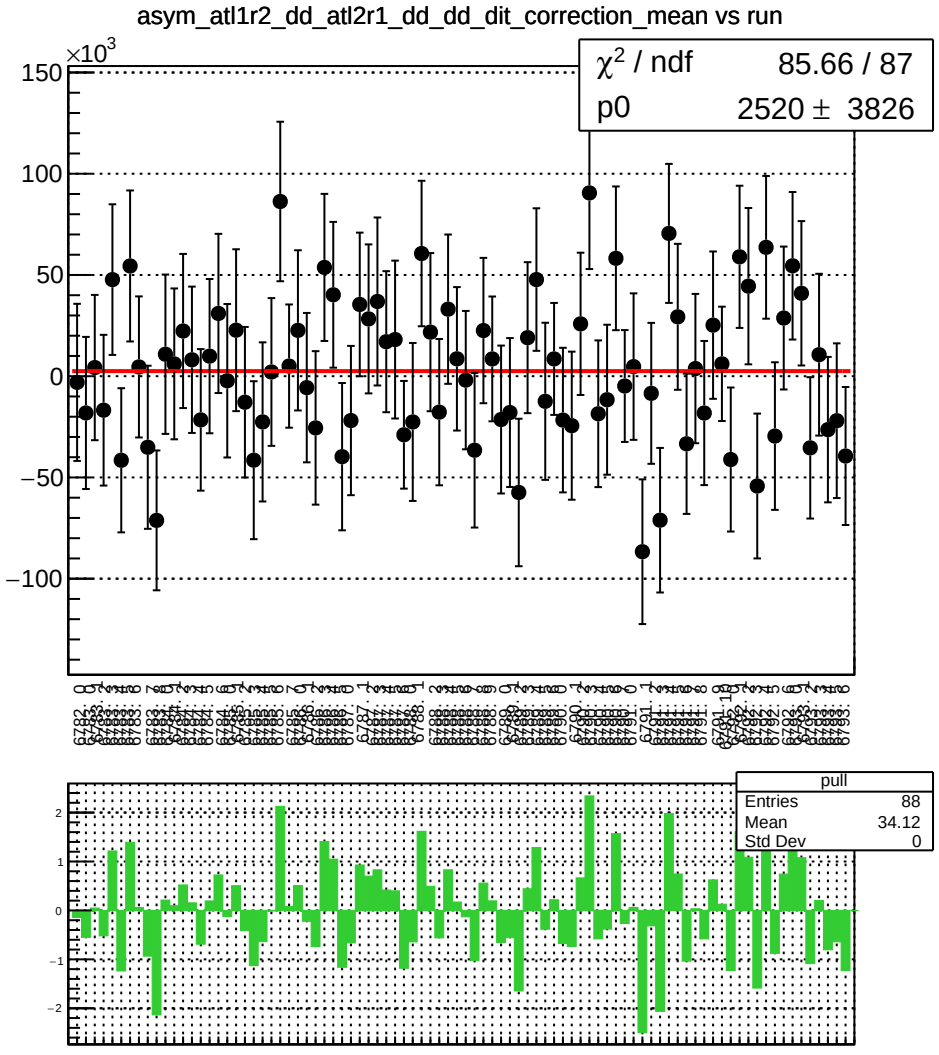

pull1D
Entries 88
Mean 0.008576
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

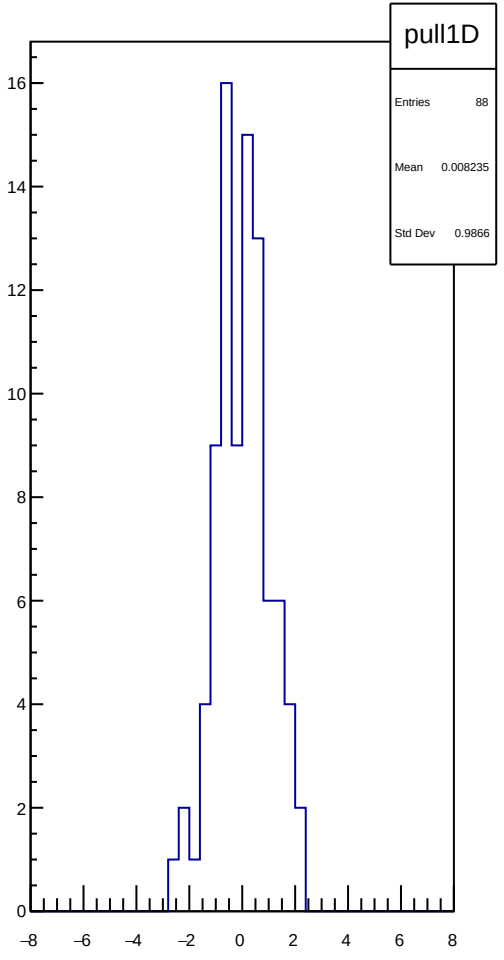

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2957 / 87
p0 3275 ± 2.548
3800
3700
3600
3500
3400
3300
3200
3100
3000

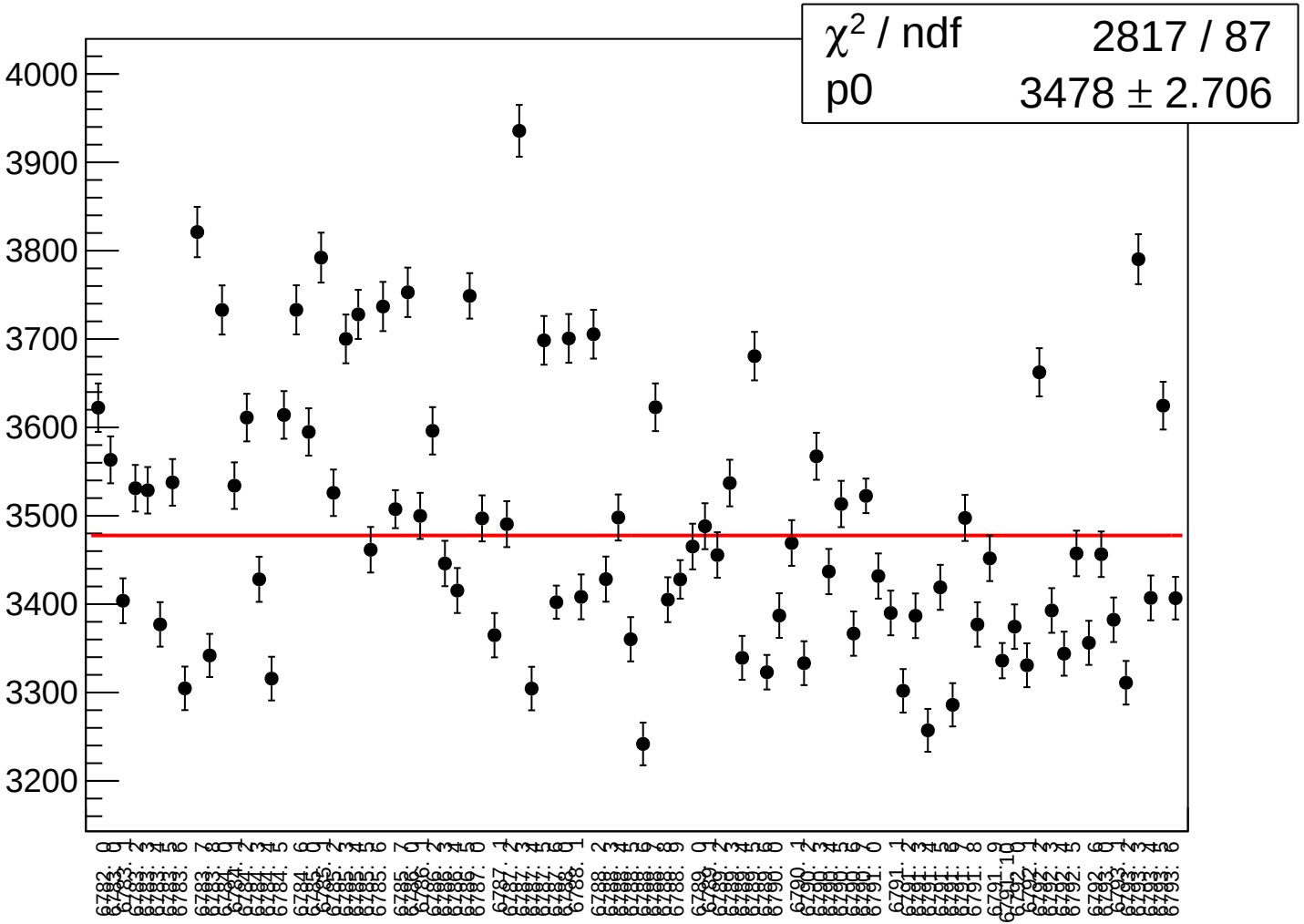

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.85 / 87
p0 1566 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −909
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

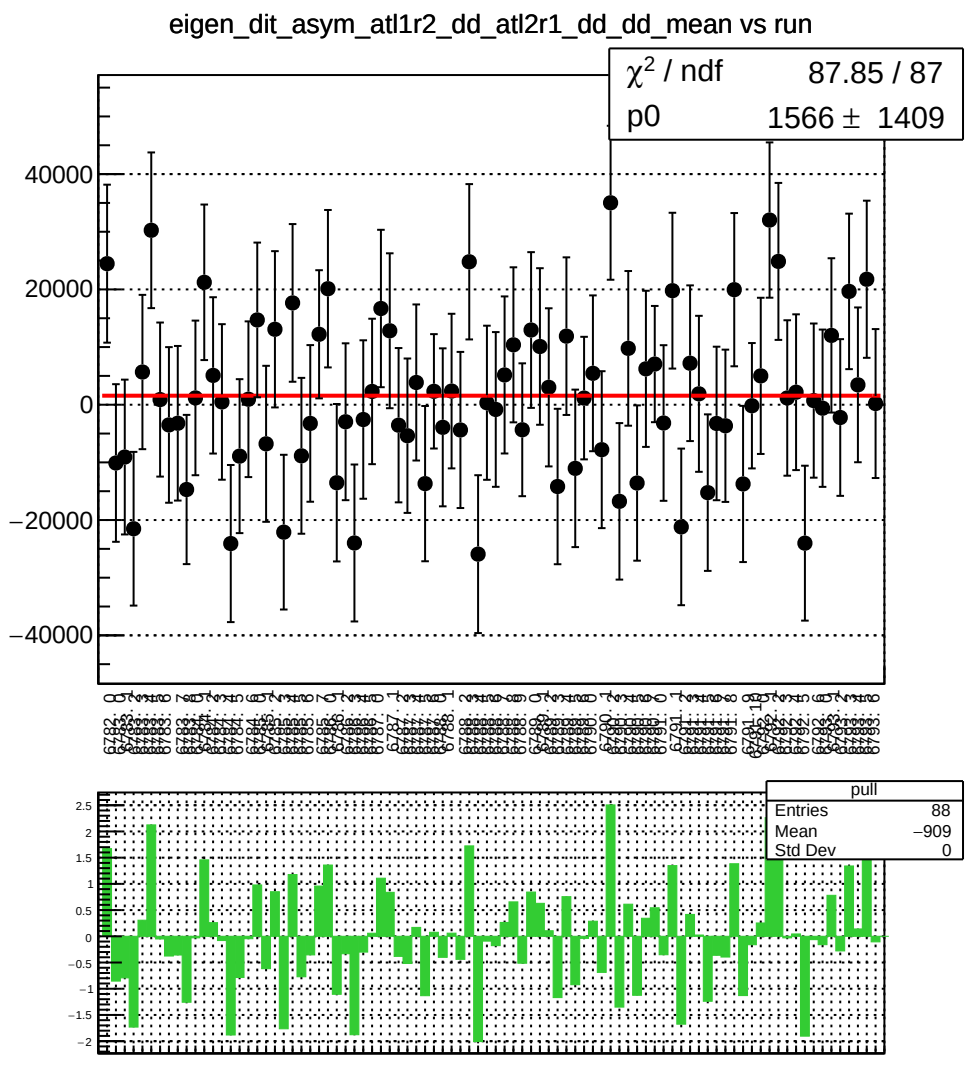

pull1D
Entries 88
Mean −0.002888
Std Dev 0.9991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

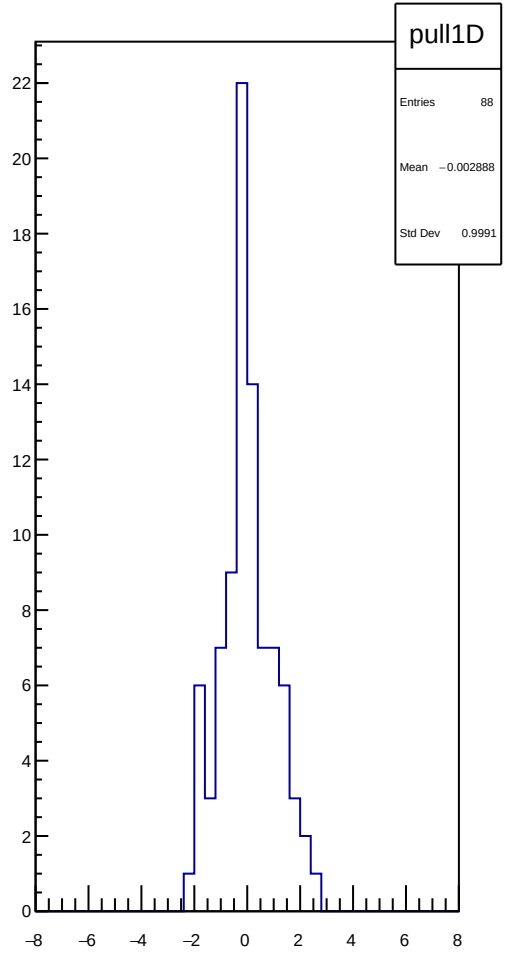

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 113 / 87
p0 1281 ± 0.996
1320
1310
1300
1290
1280
1270
1260
1250
1240

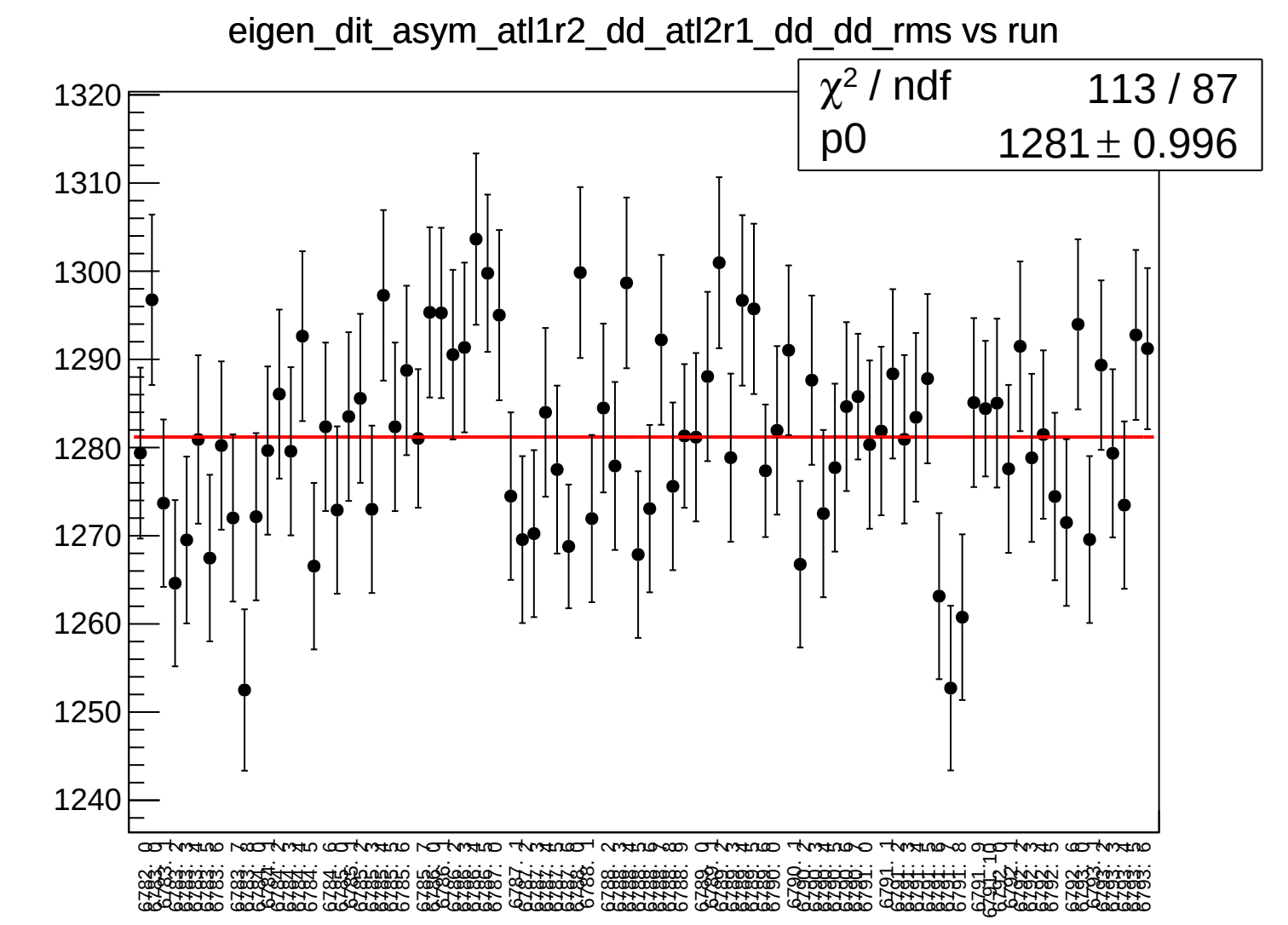

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.66 / 87
p0 2520 ± 3826
150
100
50
0
−50
−100
pull
Entries 88
Mean 34.12
Std Dev 0
2
1
0
−1
−2

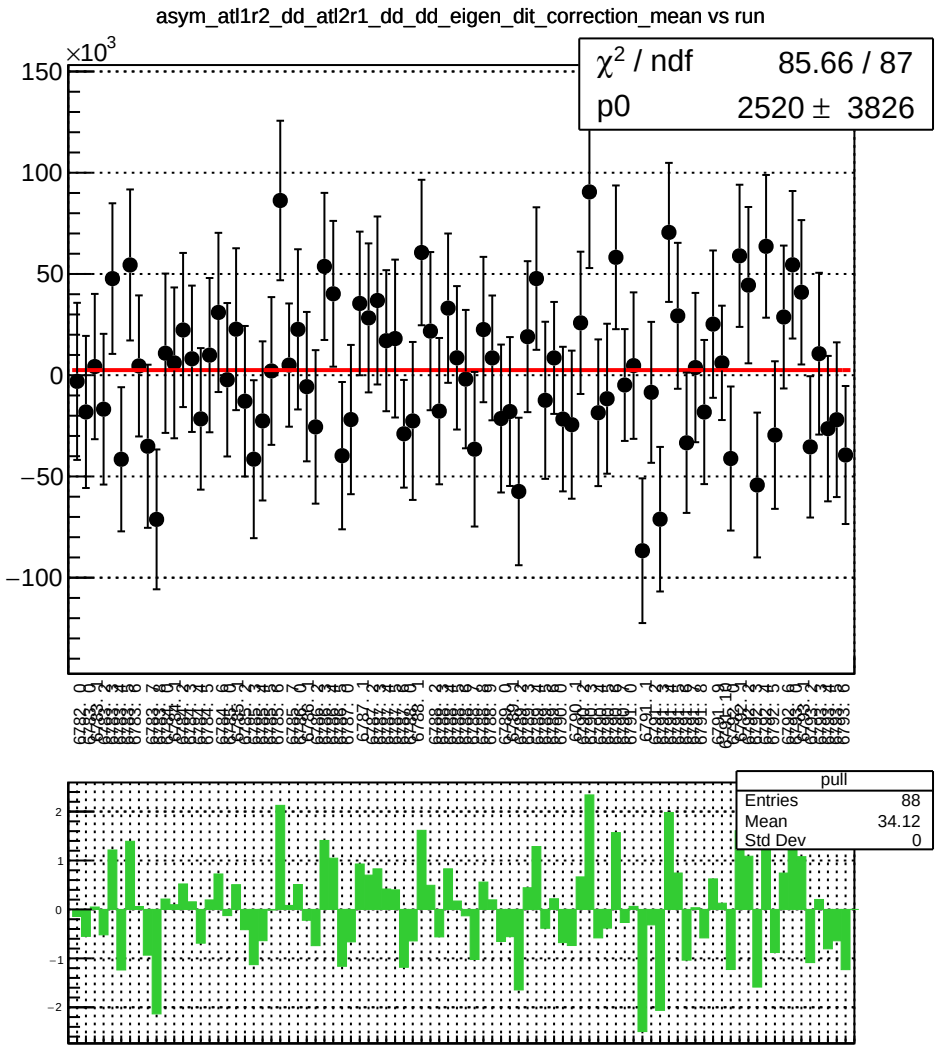

pull1D
Entries 88
Mean 0.008235
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

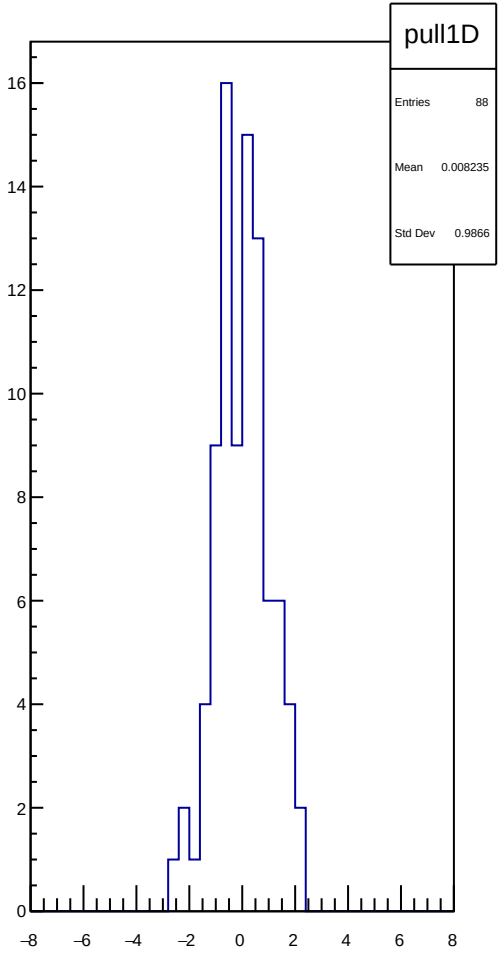

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2817 / 87
p0 3478 ± 2.706
4000
3900
3800
3700
3600
3500
3400
3300
3200

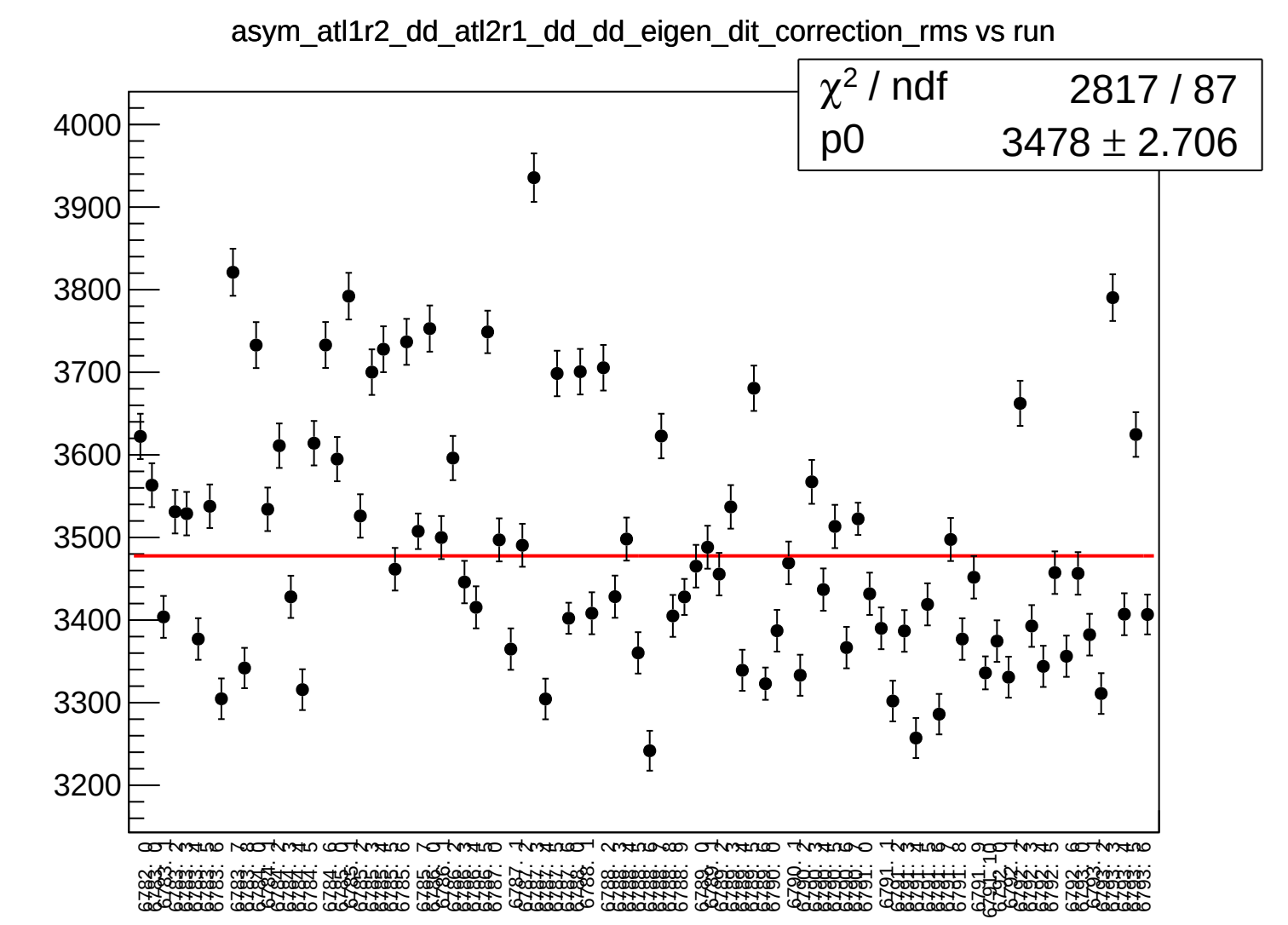

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.85 / 87
p0 1566 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −909
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

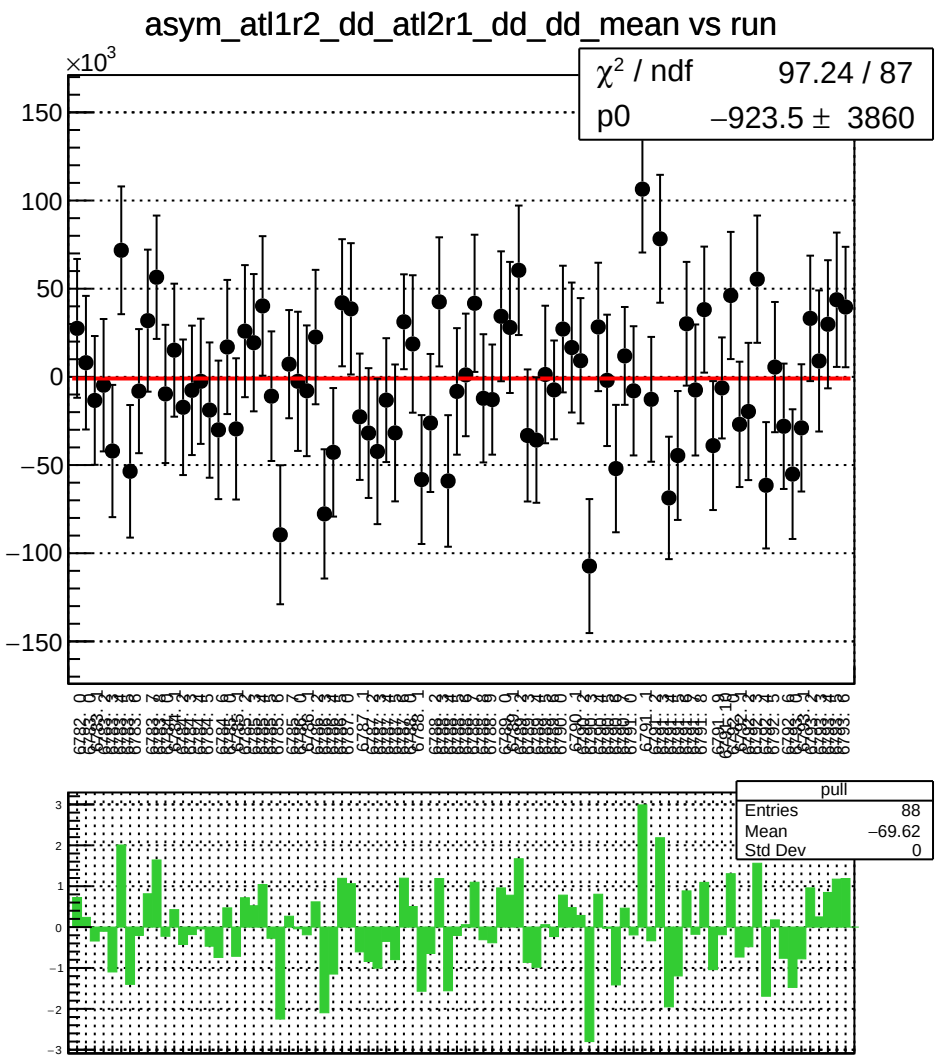

pull1D
Entries 88
Mean −0.002888
Std Dev 0.9991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

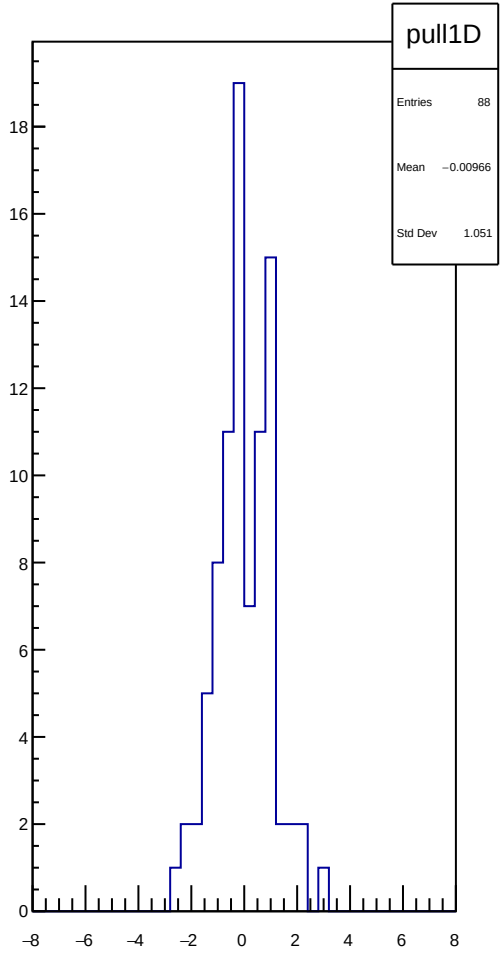

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 113 / 87
p0 1281 ± 0.996
1320
1310
1300
1290
1280
1270
1260
1250
1240

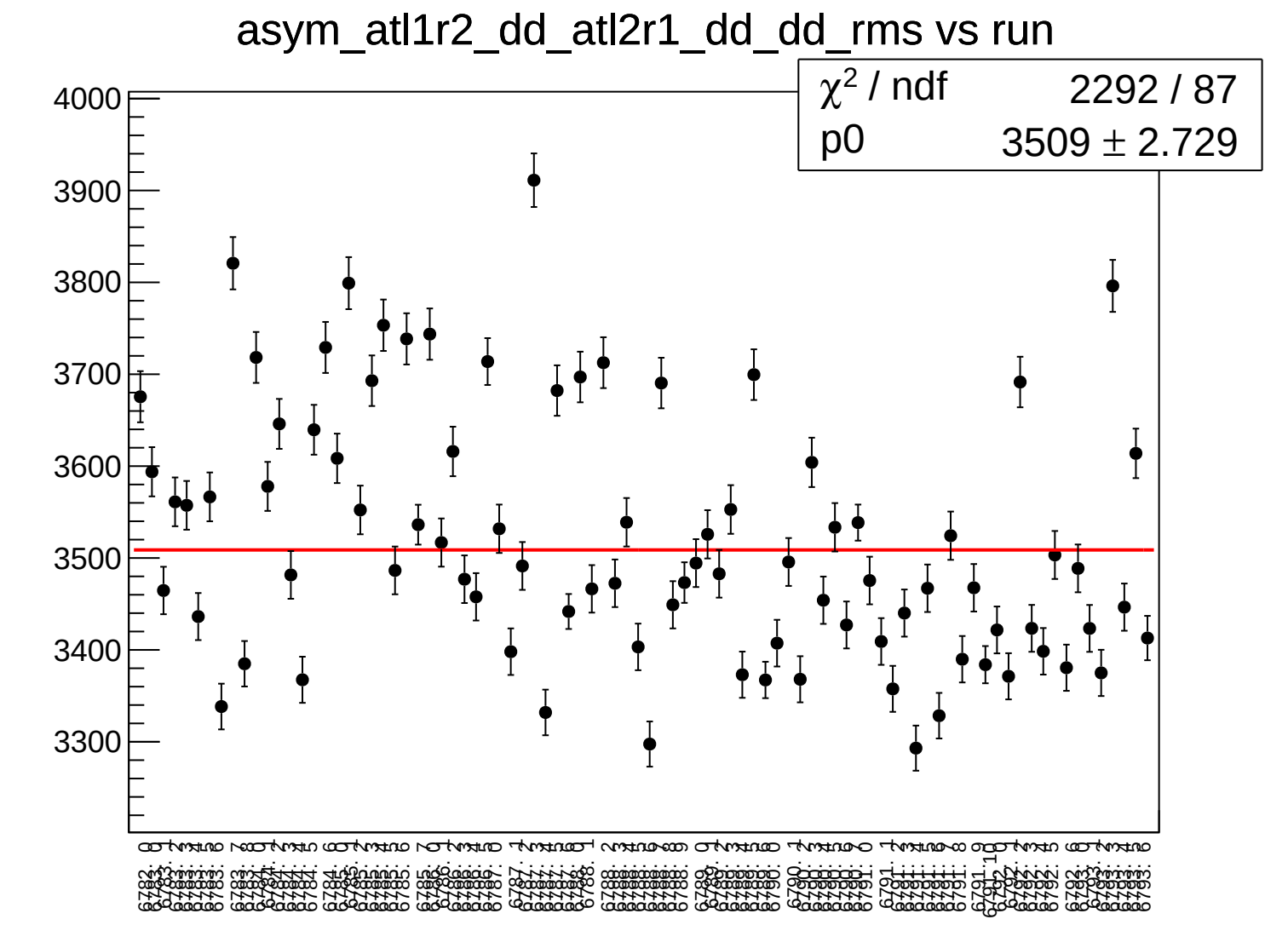

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.66 / 87
p0 2520 ± 3826
pull
Entries 88
Mean 34.12
Std Dev 0

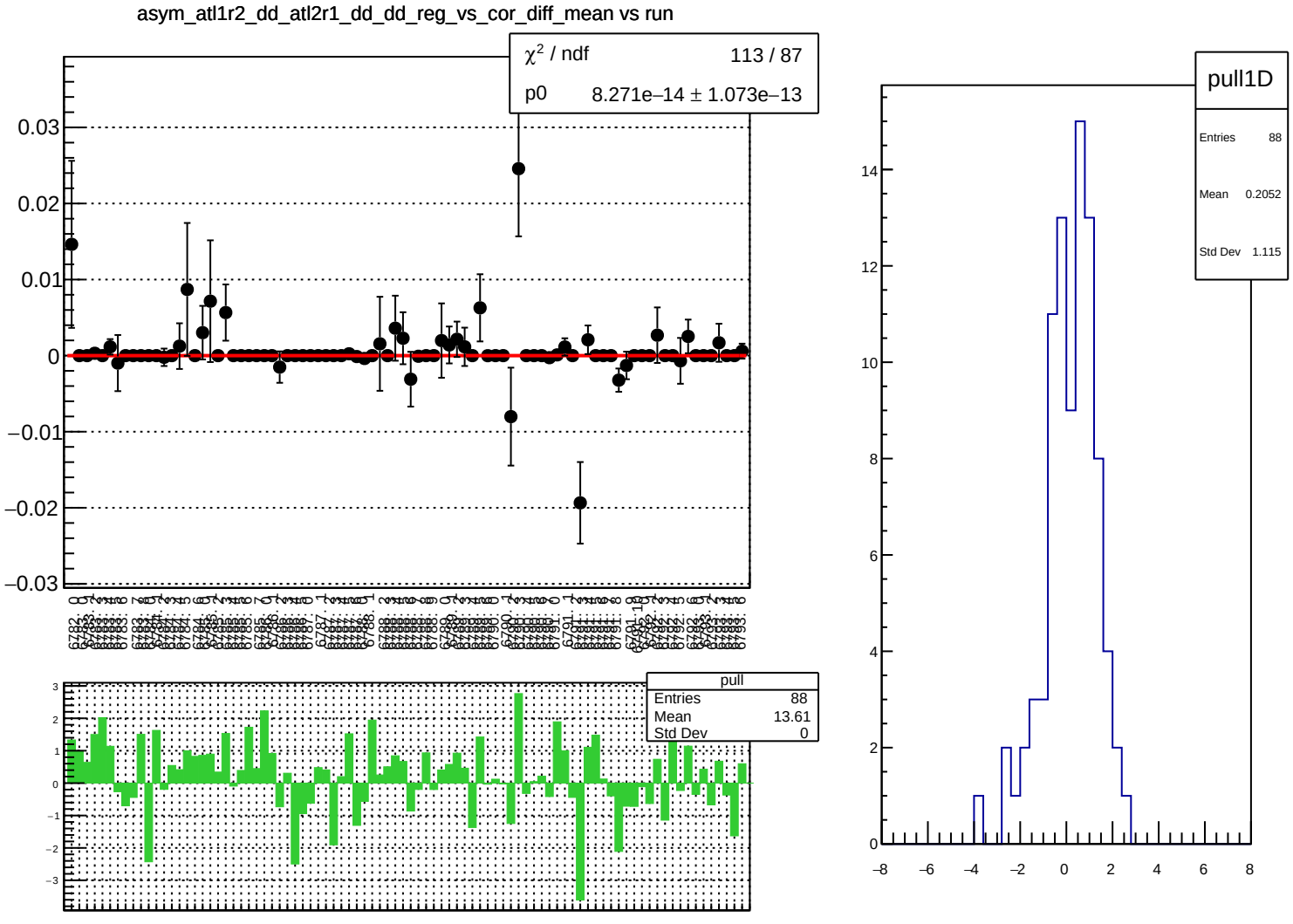

pull1D
Entries 88
Mean 0.008235
Std Dev 0.9866

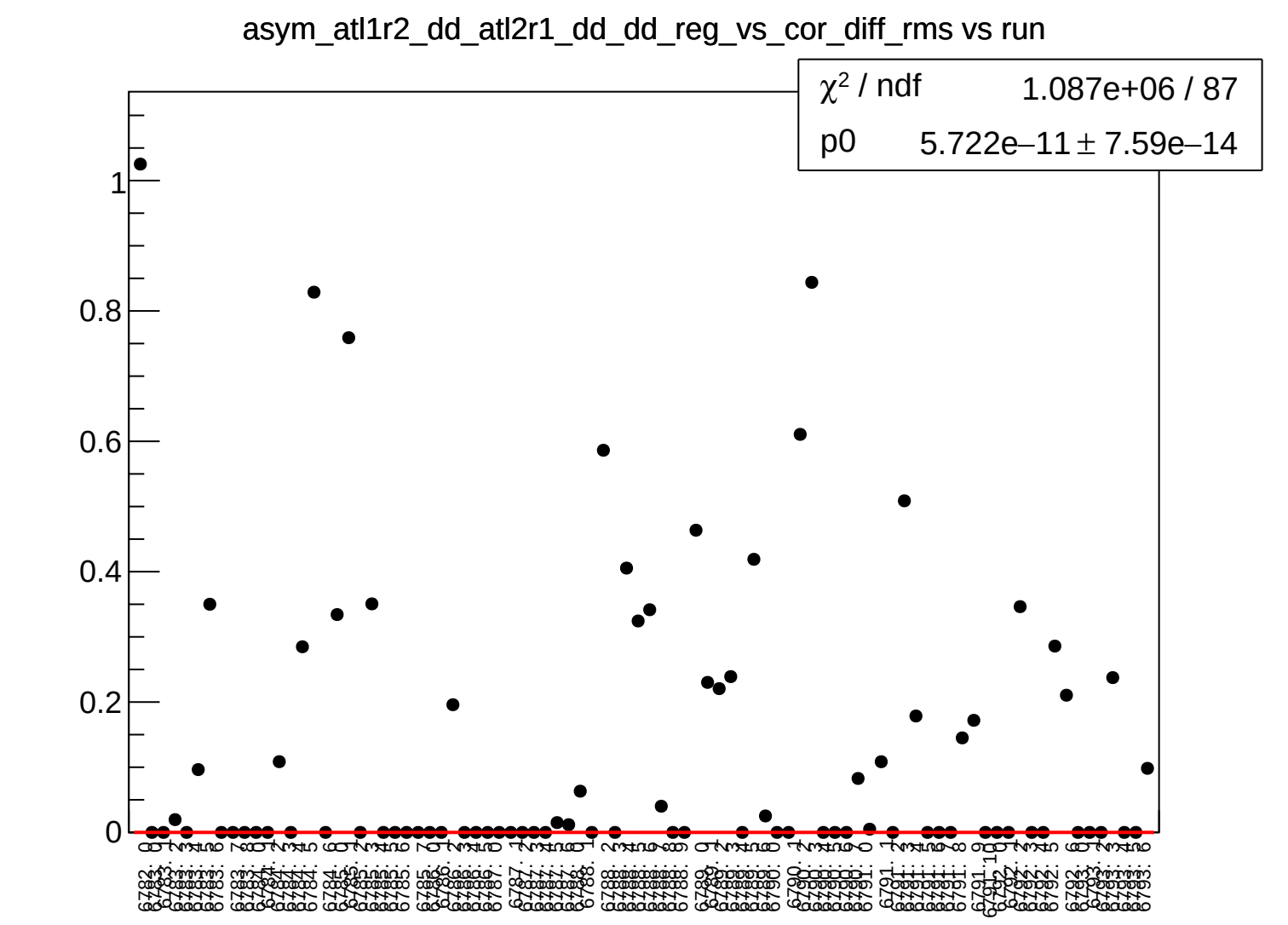

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2817 / 87
p0 3478 ± 2.706
4000
3900
3800
3700
3600
3500
3400
3300
3200

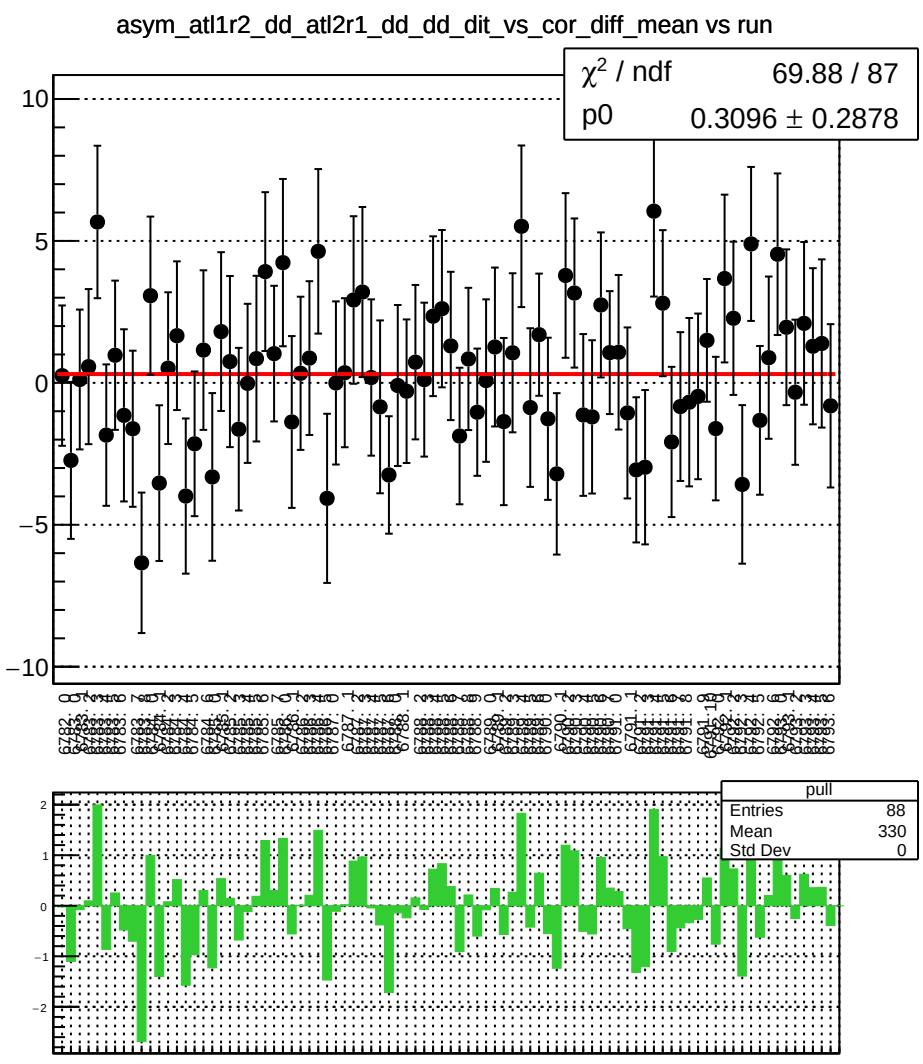

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 97.24 / 87
p0 −923.5 ± 3860
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −69.62
Std Dev 0
3
2
1
0
−1
−2
−3

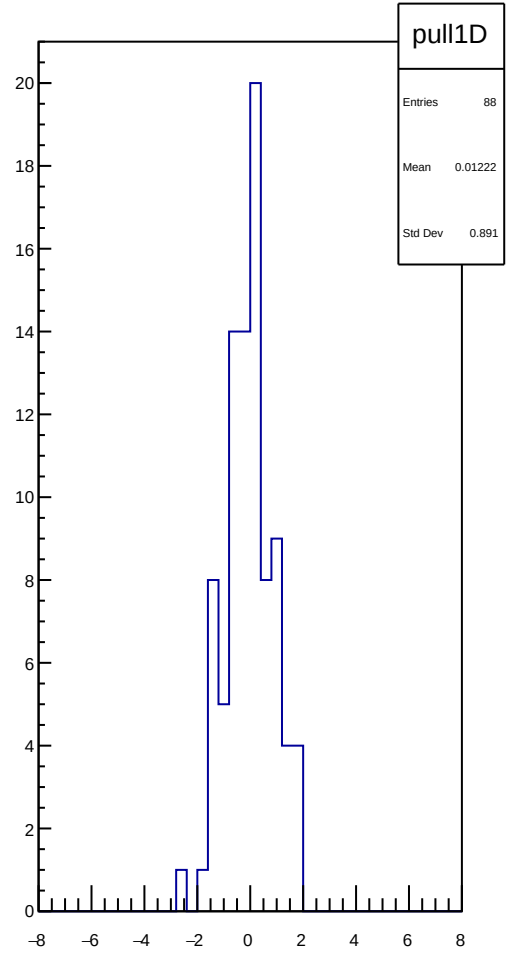

pull1D
Entries 88
Mean −0.00966
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

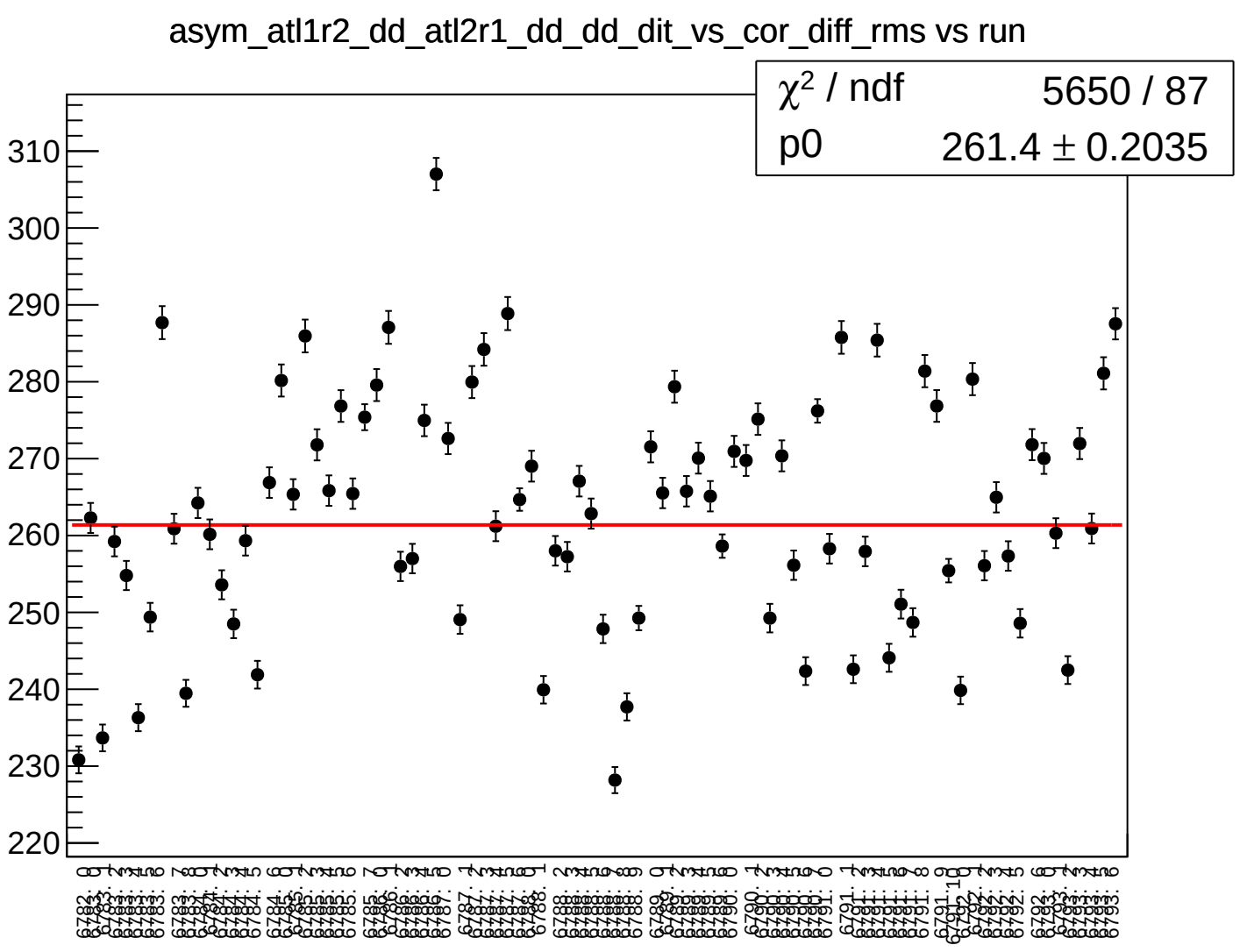

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2292 / 87
p0 3509 ± 2.729
4000
3900
3800
3700
3600
3500
3400
3300

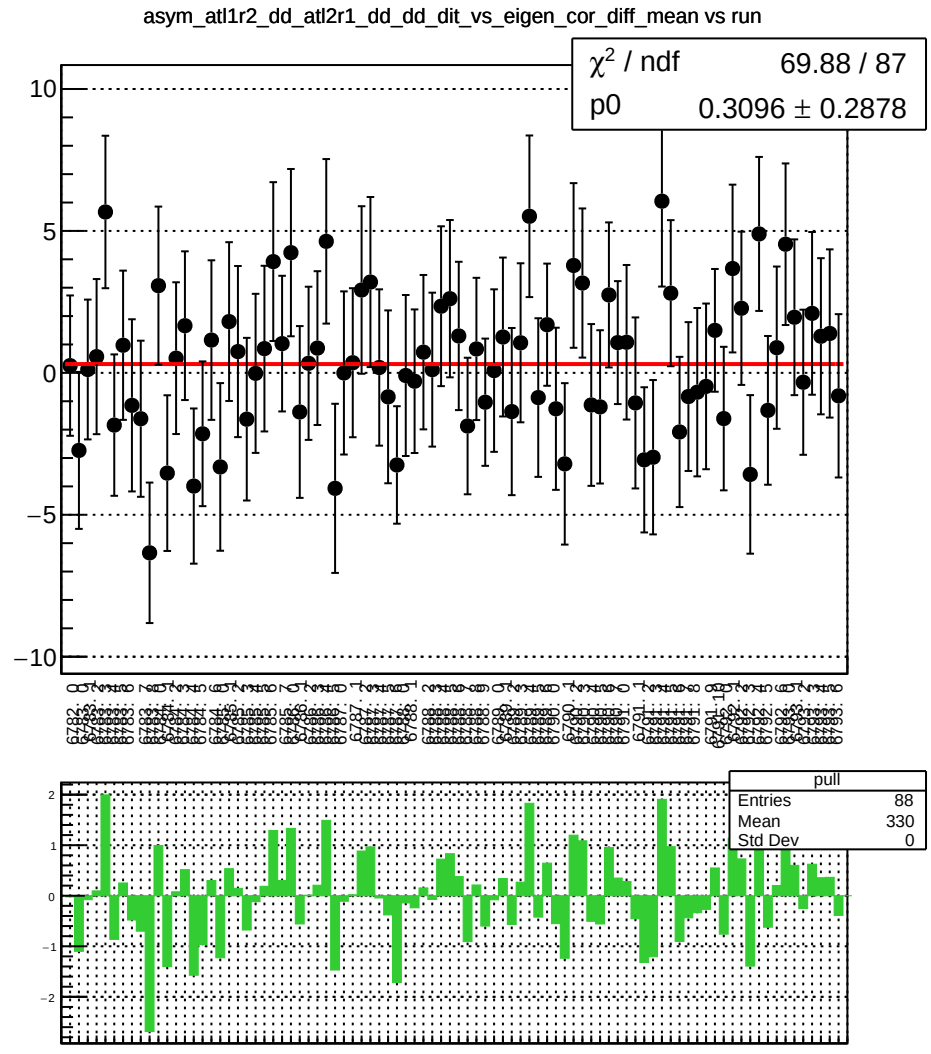

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113 / 87
p0 8.271e−14 ± 1.073e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 13.61
Std Dev 0
pull1D
Entries 88
Mean 0.2052
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

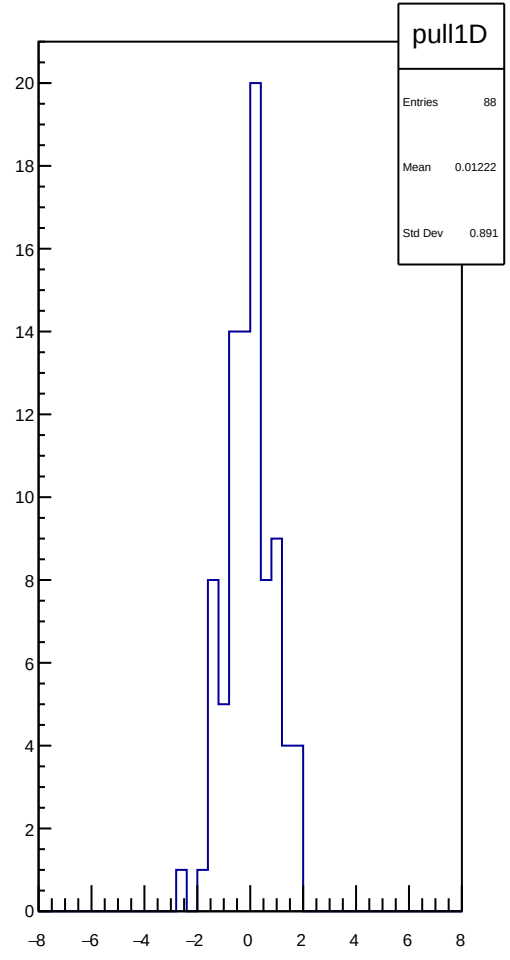

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 87
p0 5.722e−11 ± 7.59e−14
1
0.8
0.6
0.4
0.2
0

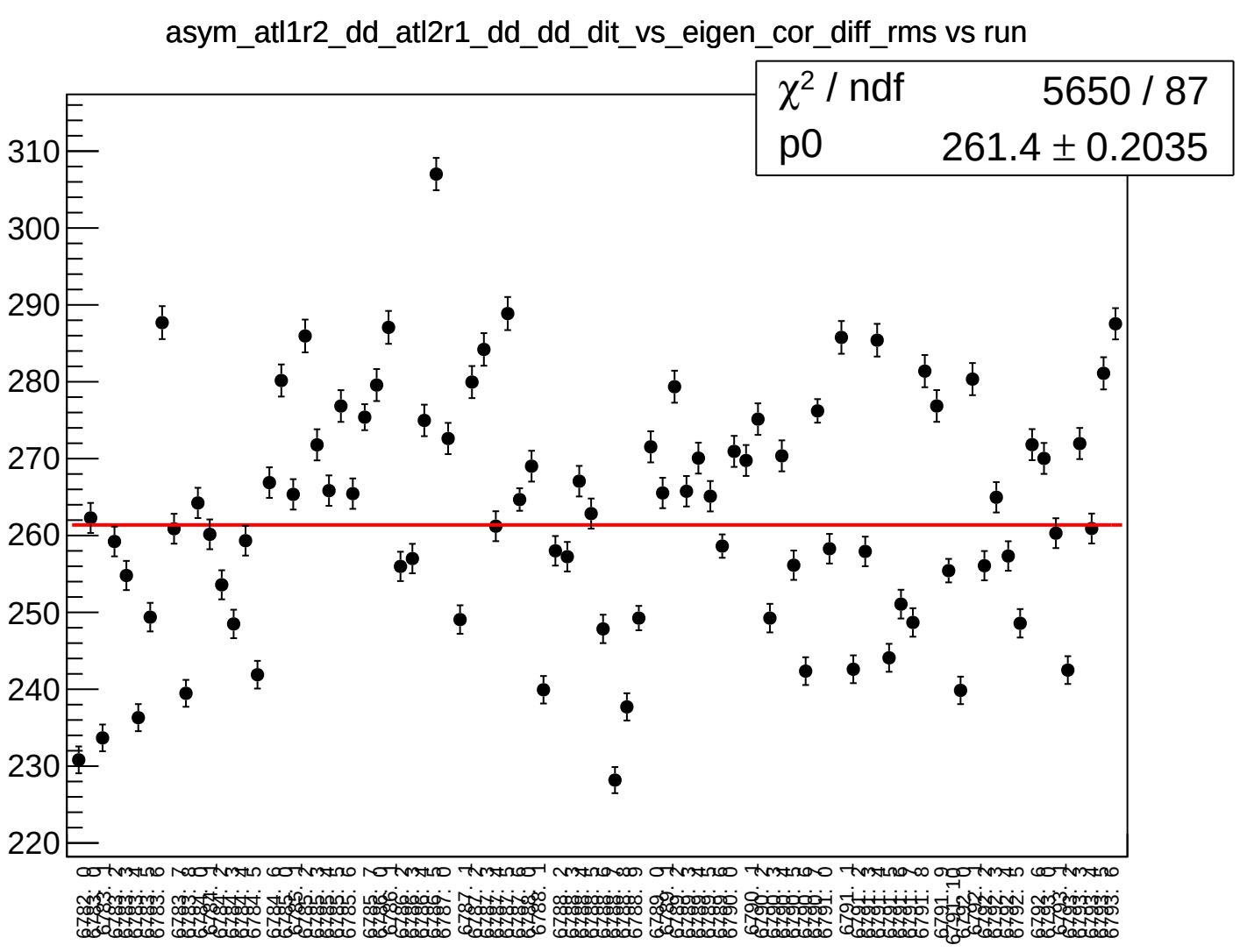

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0

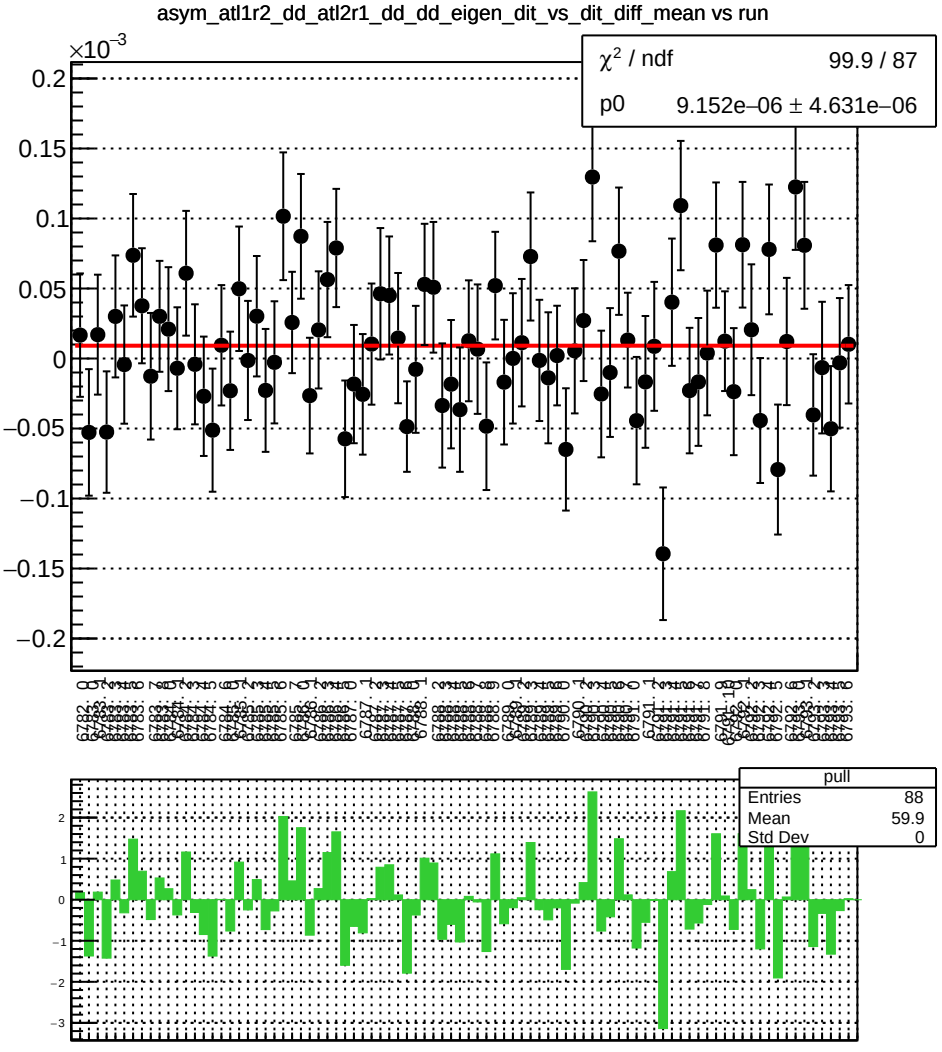

pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

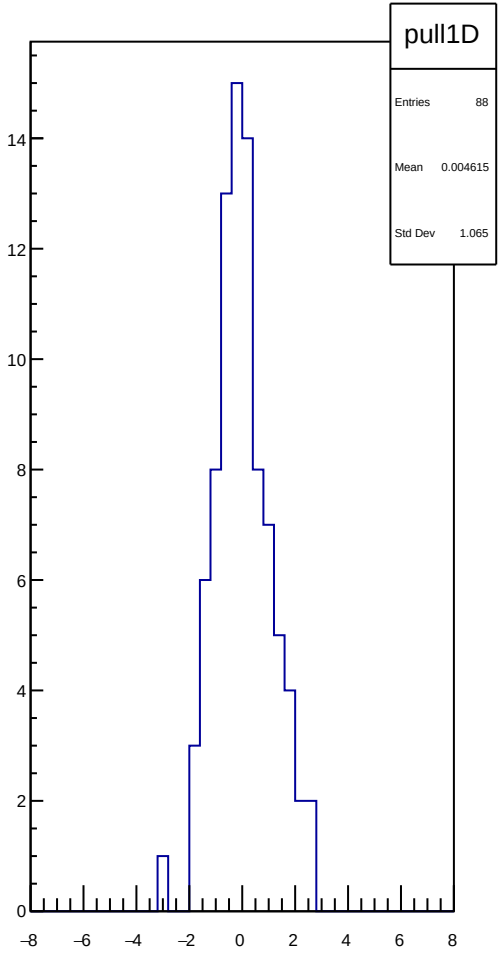

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

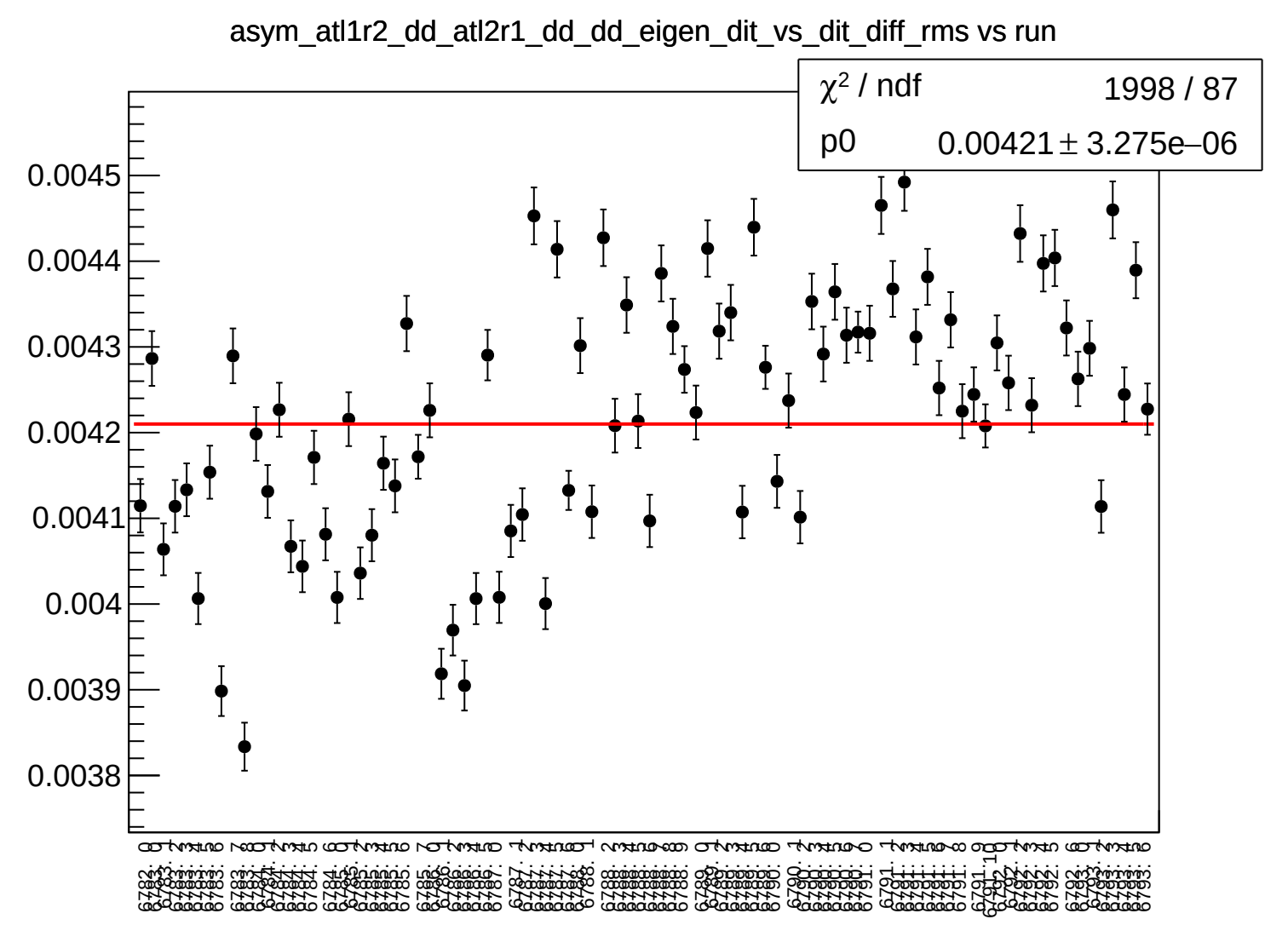

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0

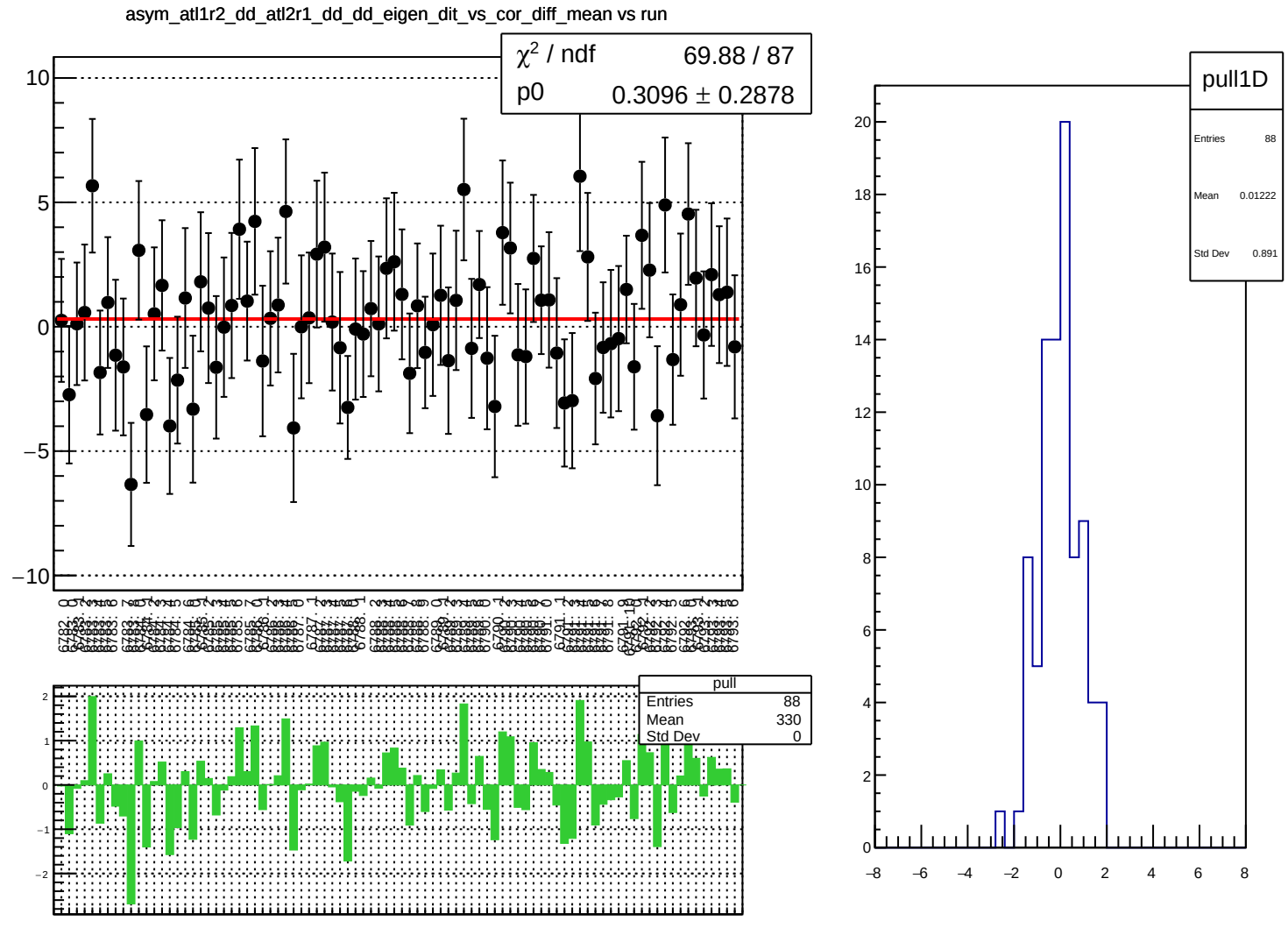

pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

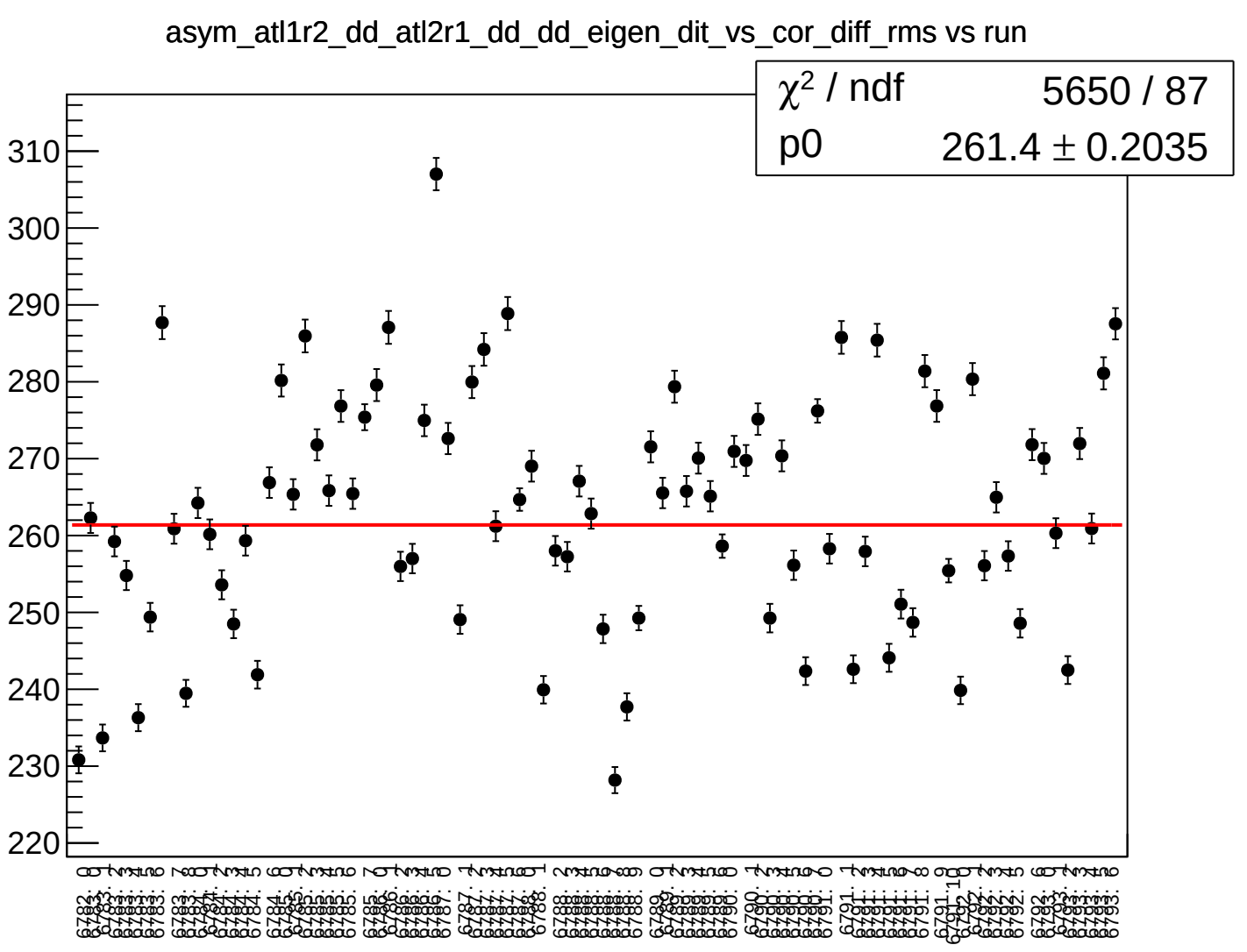

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

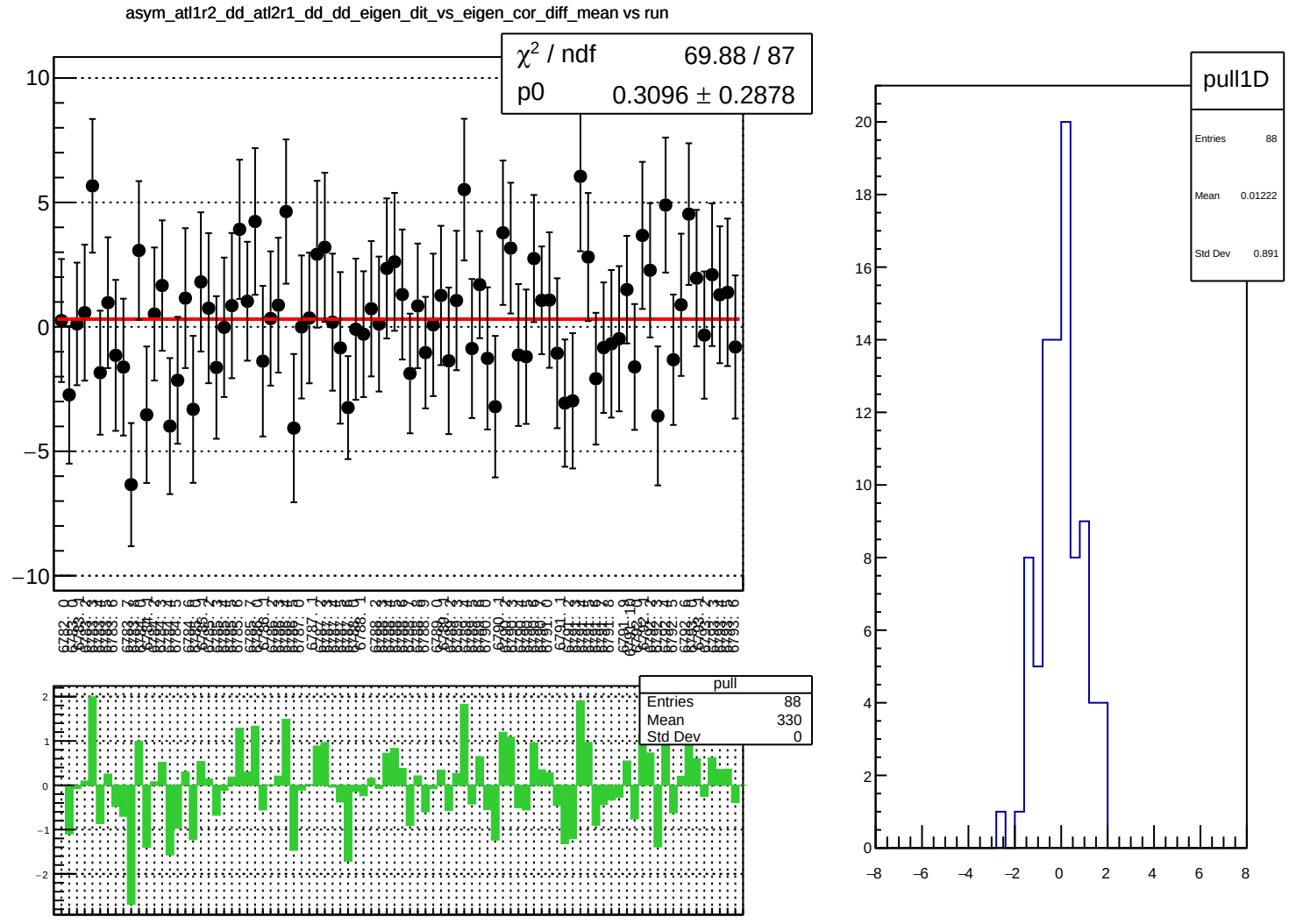

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.9 / 87
p0 9.152e−06 ± 4.631e−06
pull
Entries 88
Mean 59.9
Std Dev 0

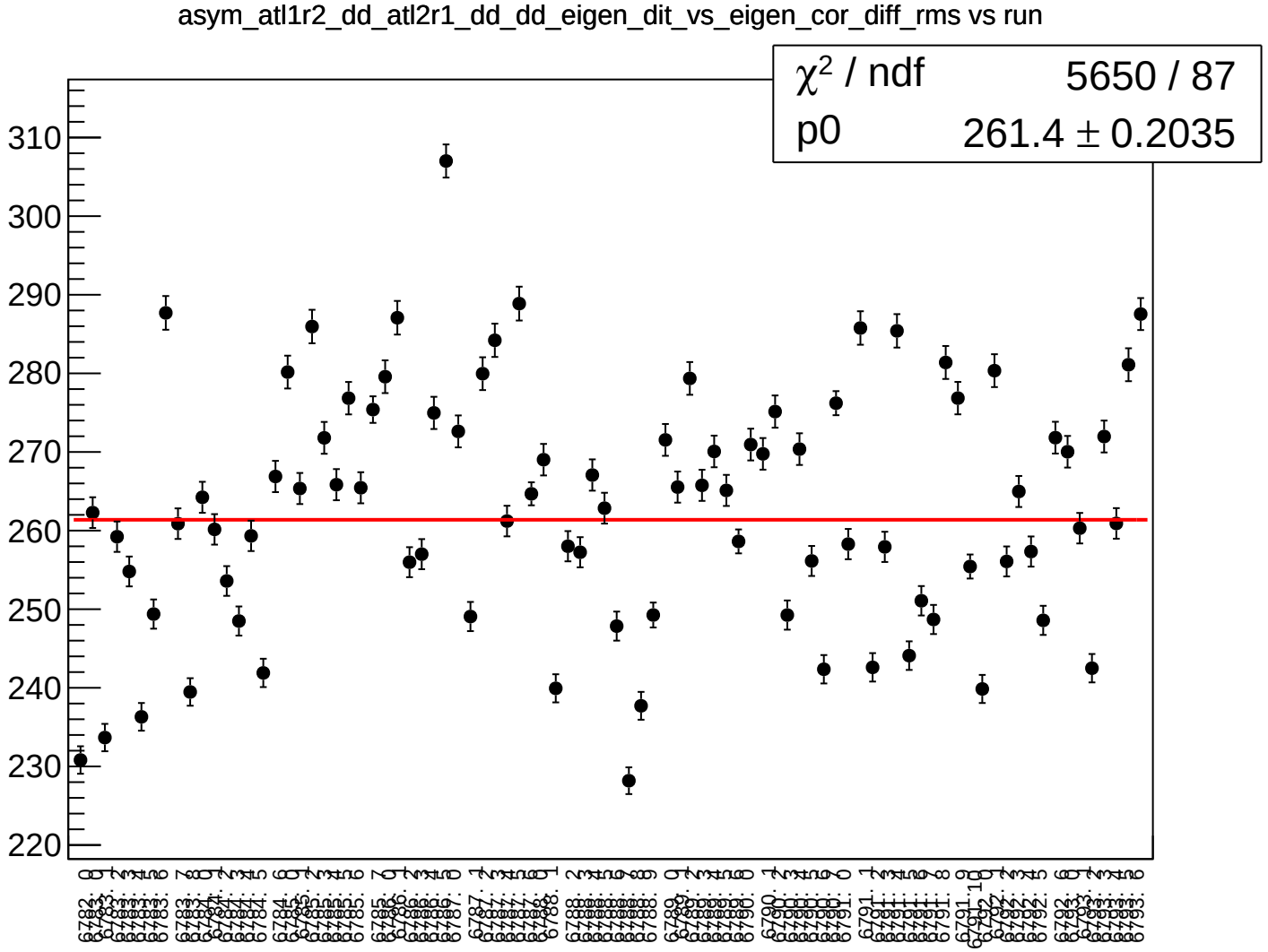

pull1D
Entries 88
Mean 0.004615
Std Dev 1.065

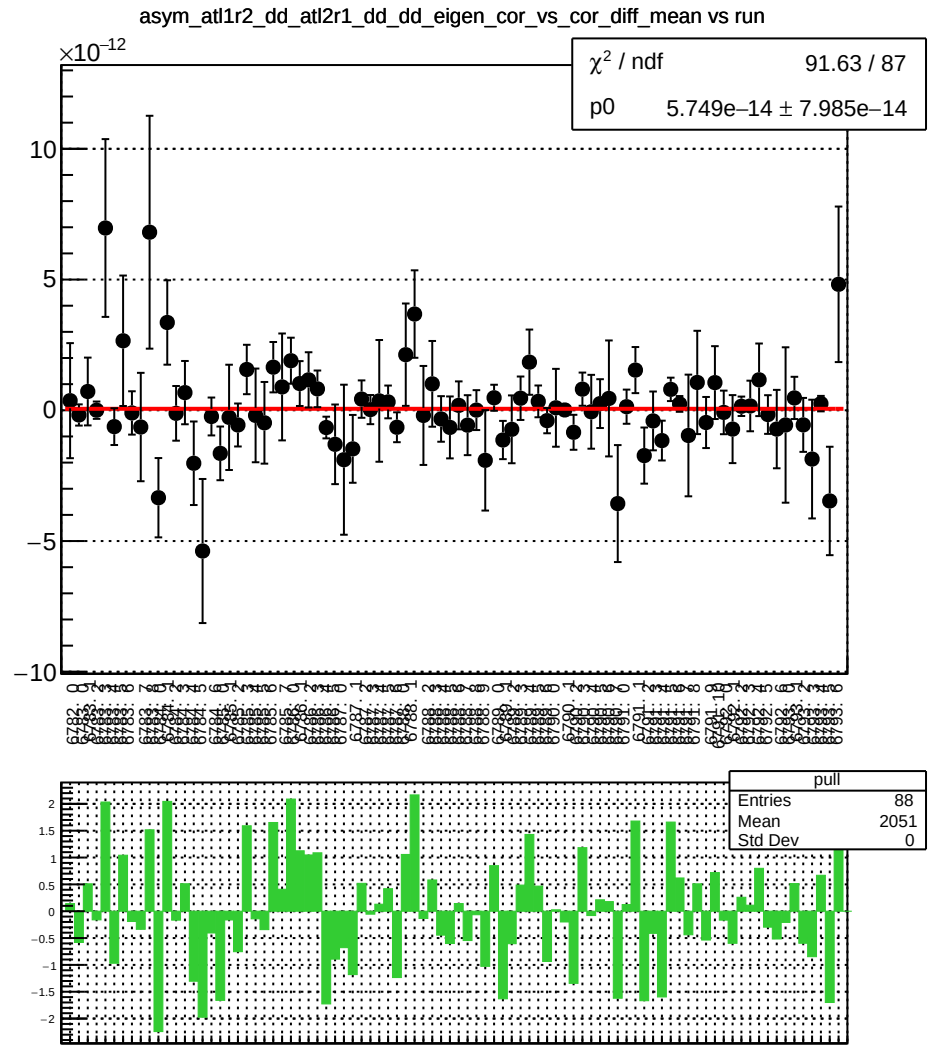

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1998 / 87
p0 0.00421 ± 3.275e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038

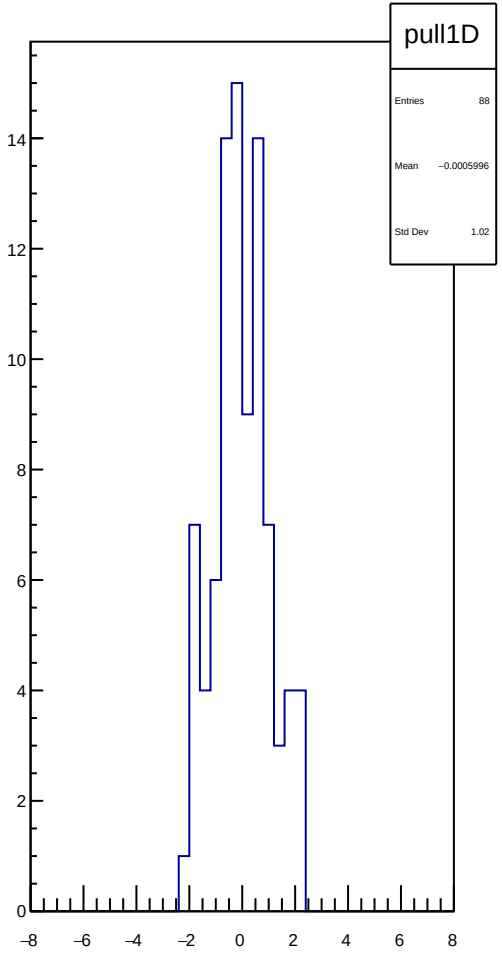

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0
pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

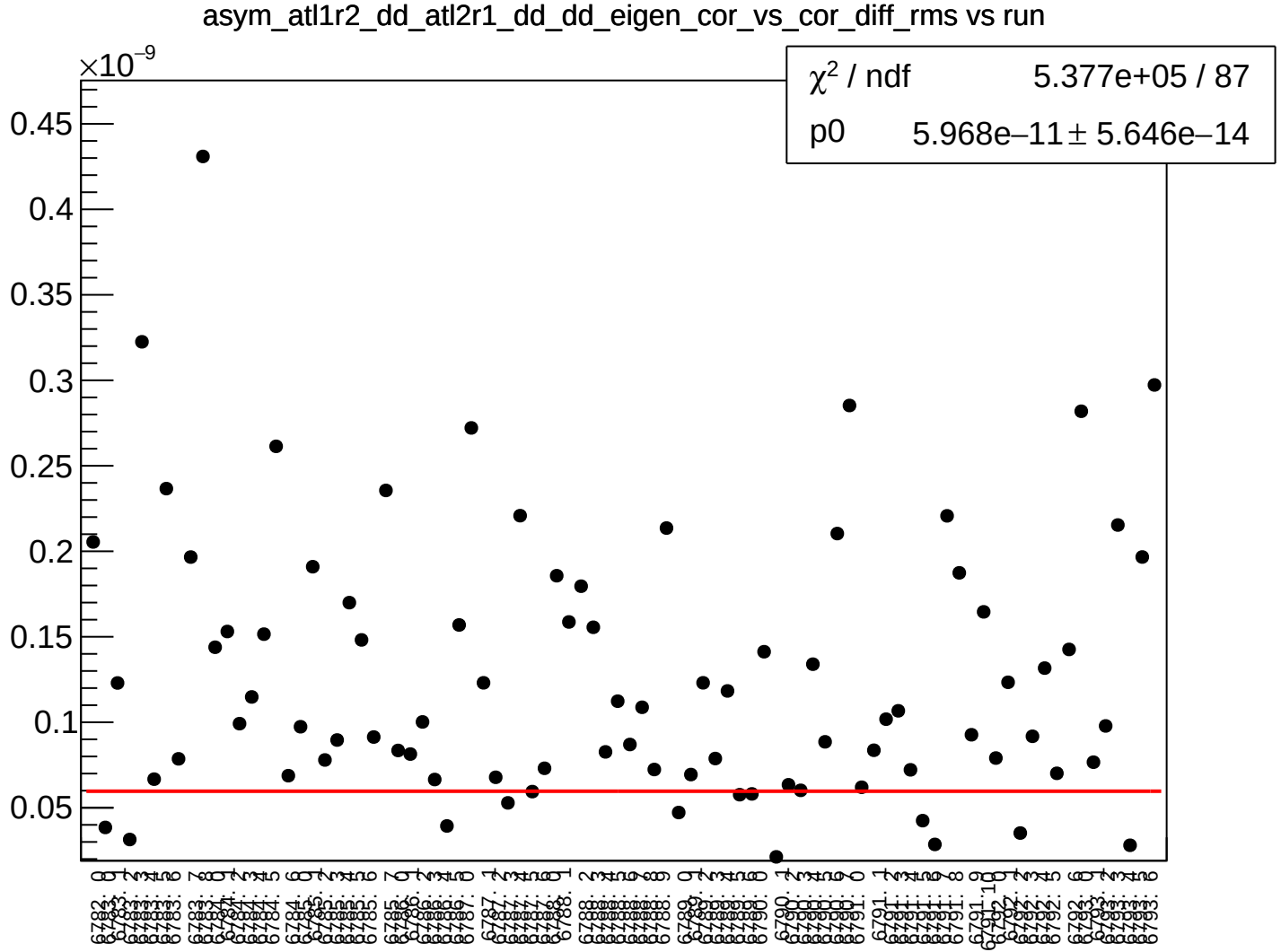

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

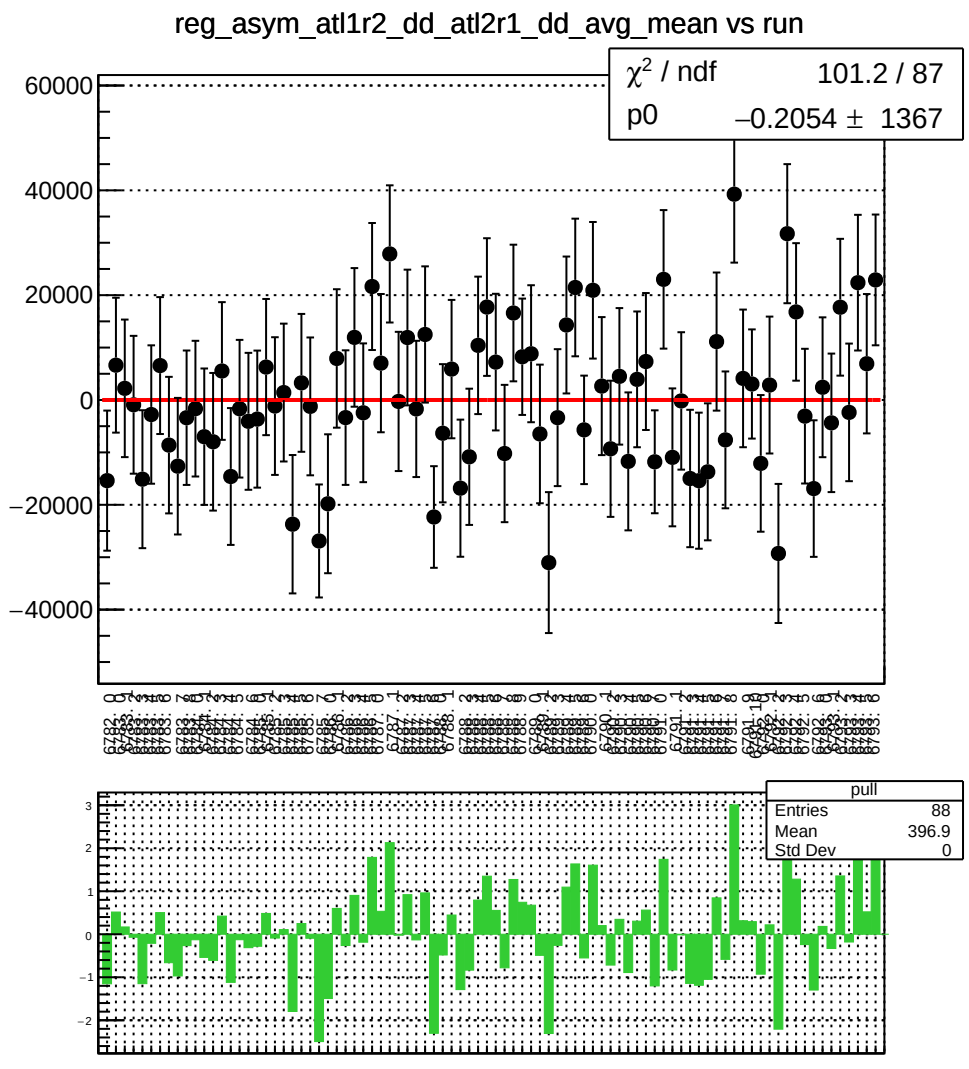

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.88 / 87
p0 0.3096 ± 0.2878
pull
Entries 88
Mean 330
Std Dev 0
pull1D
Entries 88
Mean 0.01222
Std Dev 0.891

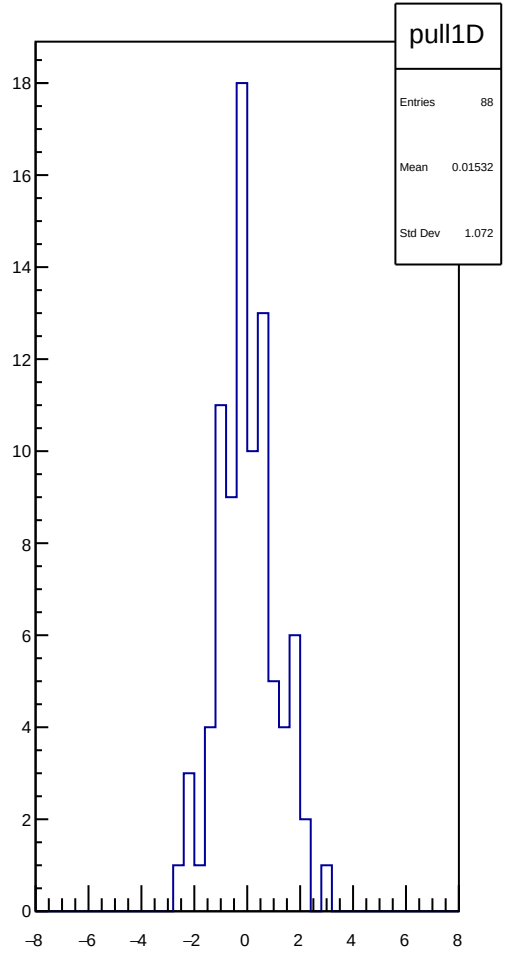

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5650 / 87
p0 261.4 ± 0.2035
310
300
290
280
270
260
250
240
230
220

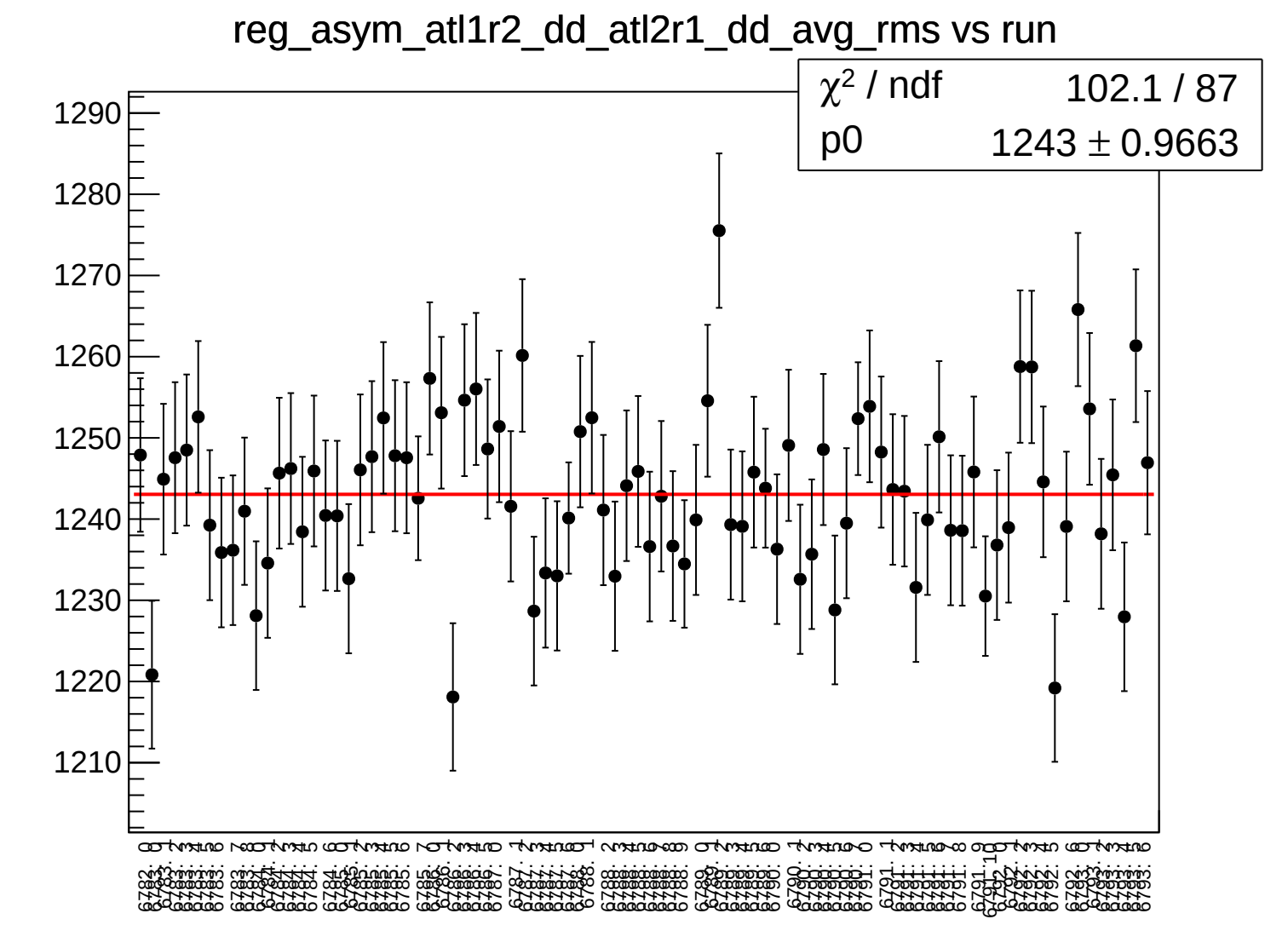

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.63 / 87
p0 5.749e−14 ± 7.985e−14
pull
Entries 88
Mean 2051
Std Dev 0

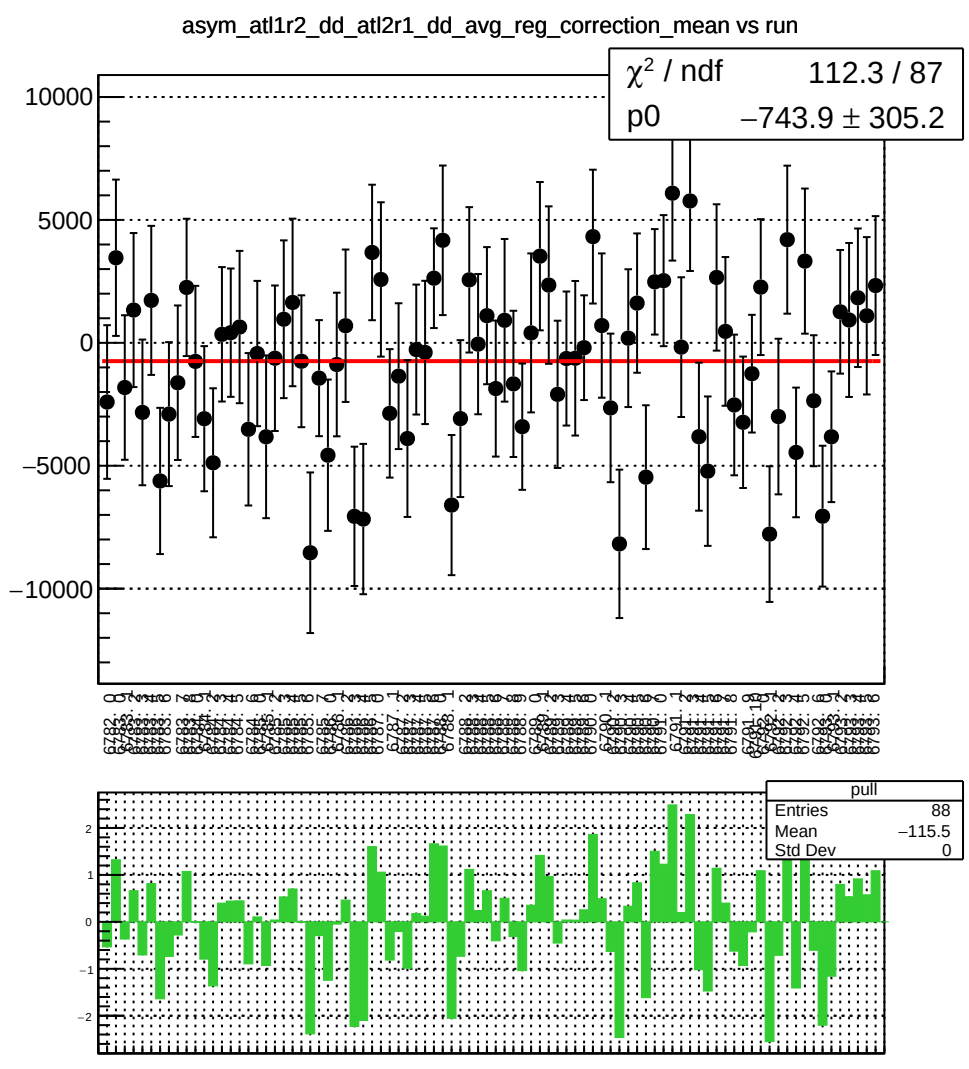

pull1D
Entries 88
Mean −0.0005996
Std Dev 1.02

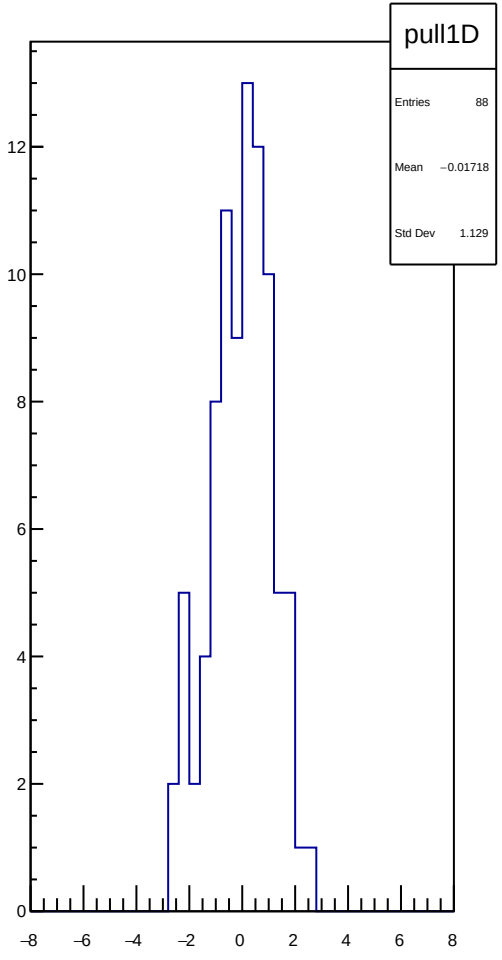

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.377e+05 / 87
p0 5.968e−11 ± 5.646e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

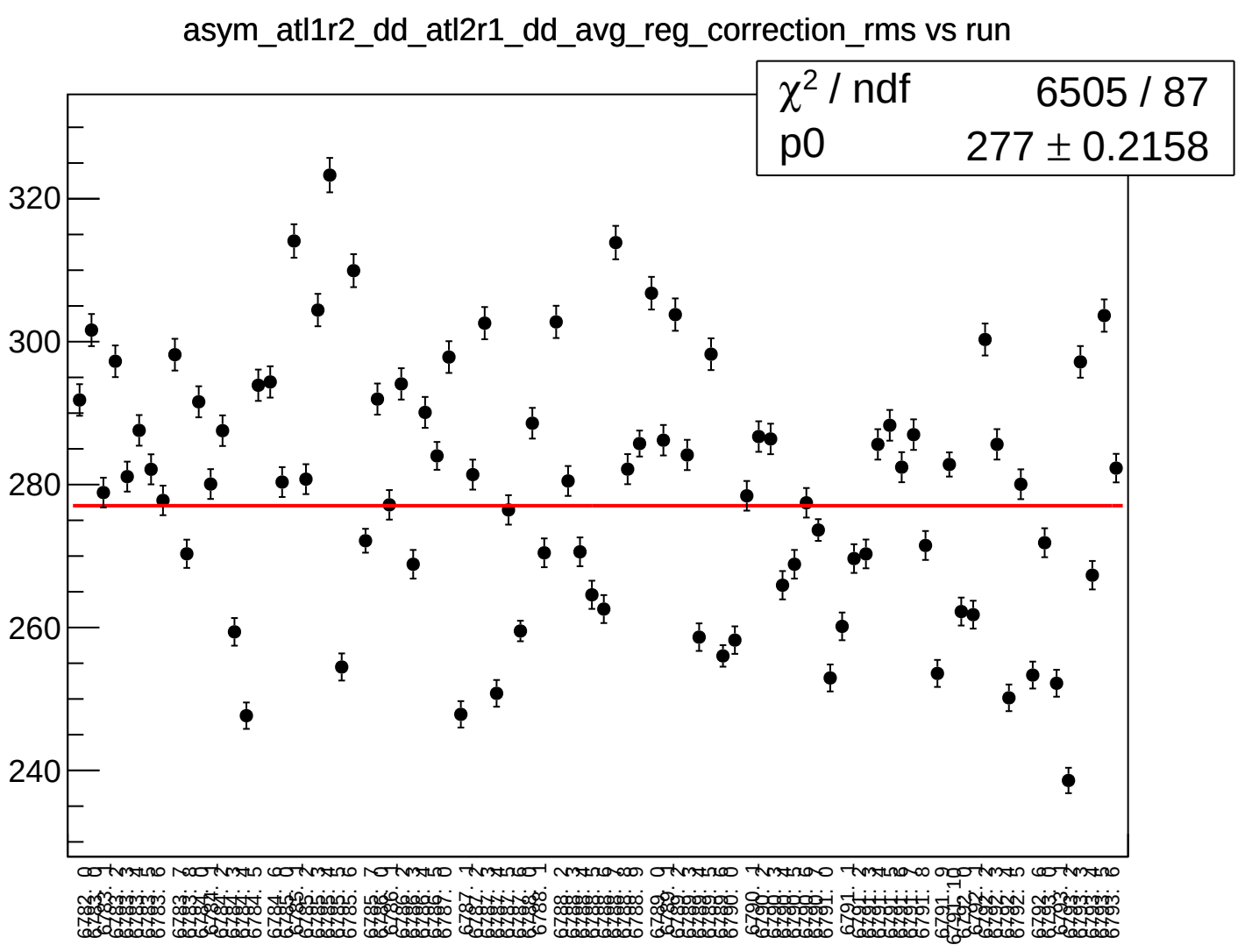

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.2 / 87
p0 −0.2054 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 396.9
Std Dev 0
3
2
1
0
−1
−2

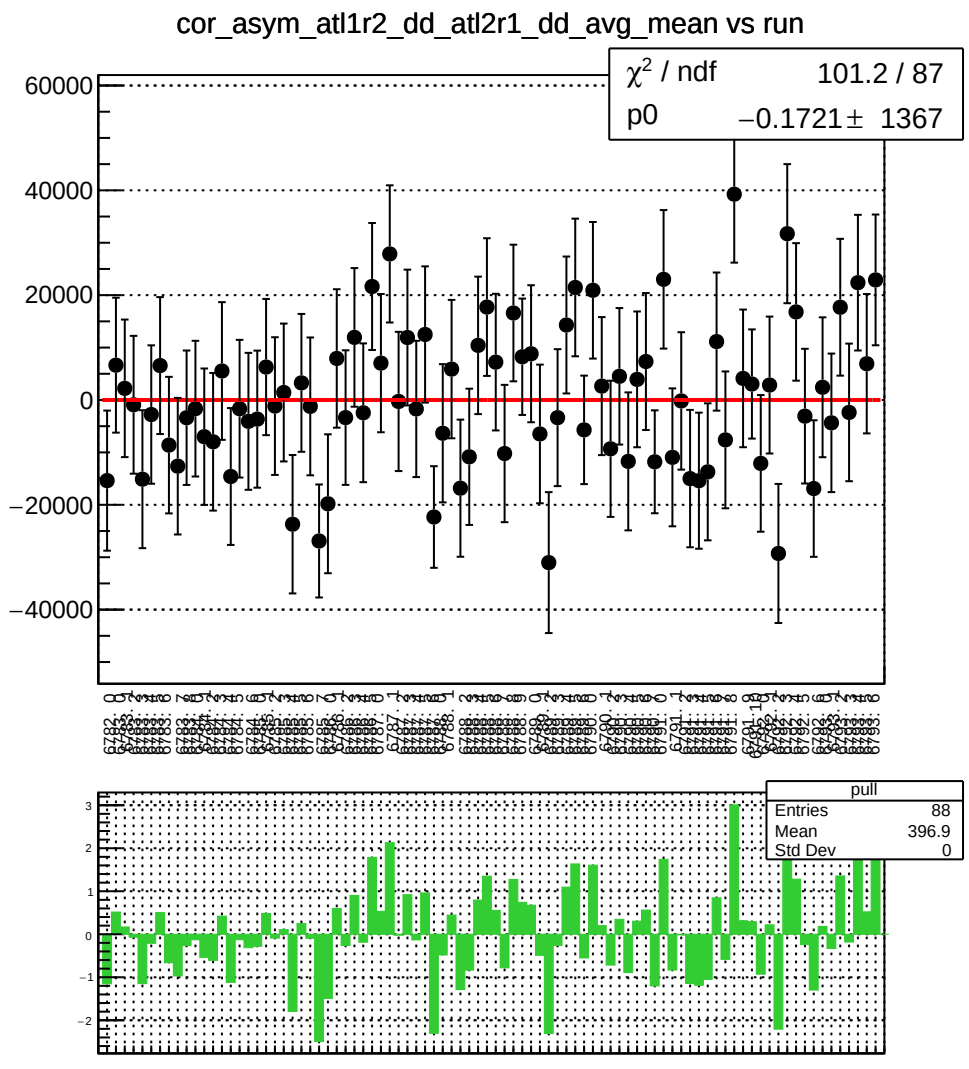

pull1D
Entries 88
Mean 0.01532
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

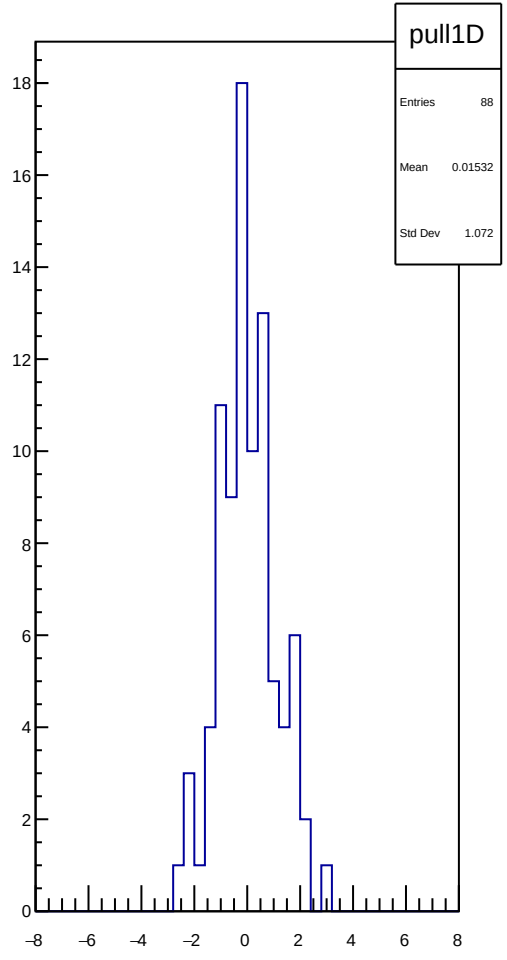

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 102.1 / 87
p0 1243 ± 0.9663
1290
1280
1270
1260
1250
1240
1230
1220
1210

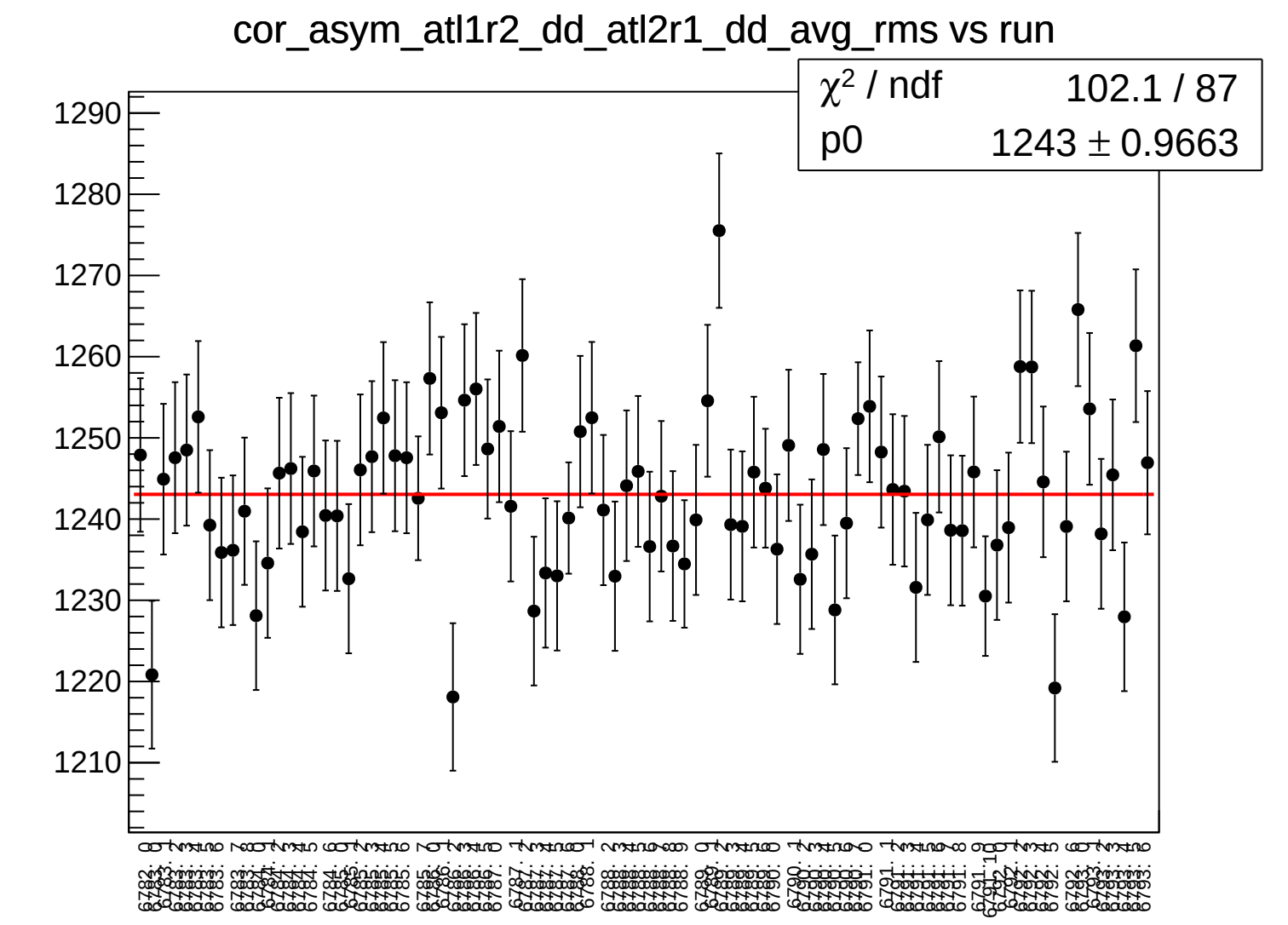

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 112.3 / 87
p0 −743.9 ± 305.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −115.5
Std Dev 0
2
1
0
−1
−2

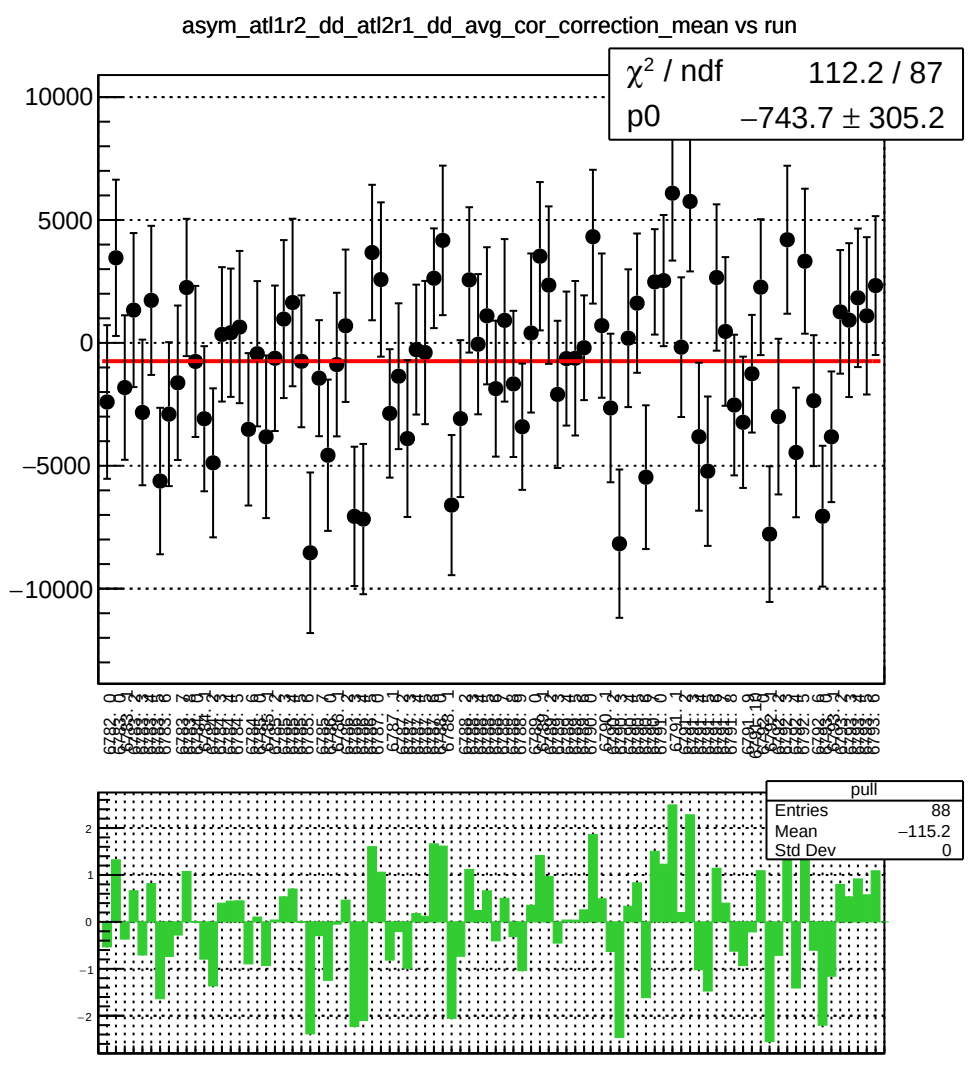

pull1D
Entries 88
Mean −0.01718
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

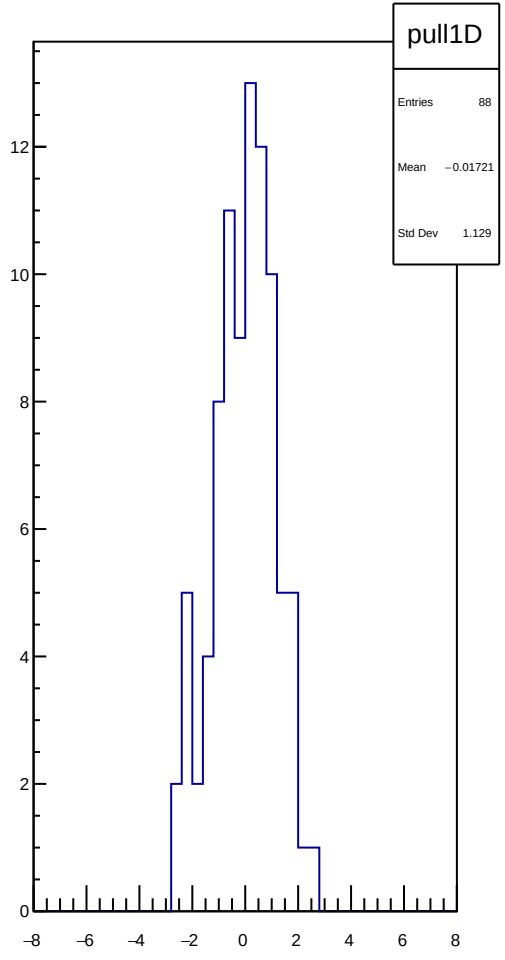

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 6505 / 87
p0 277 ± 0.2158
320
300
280
260
240

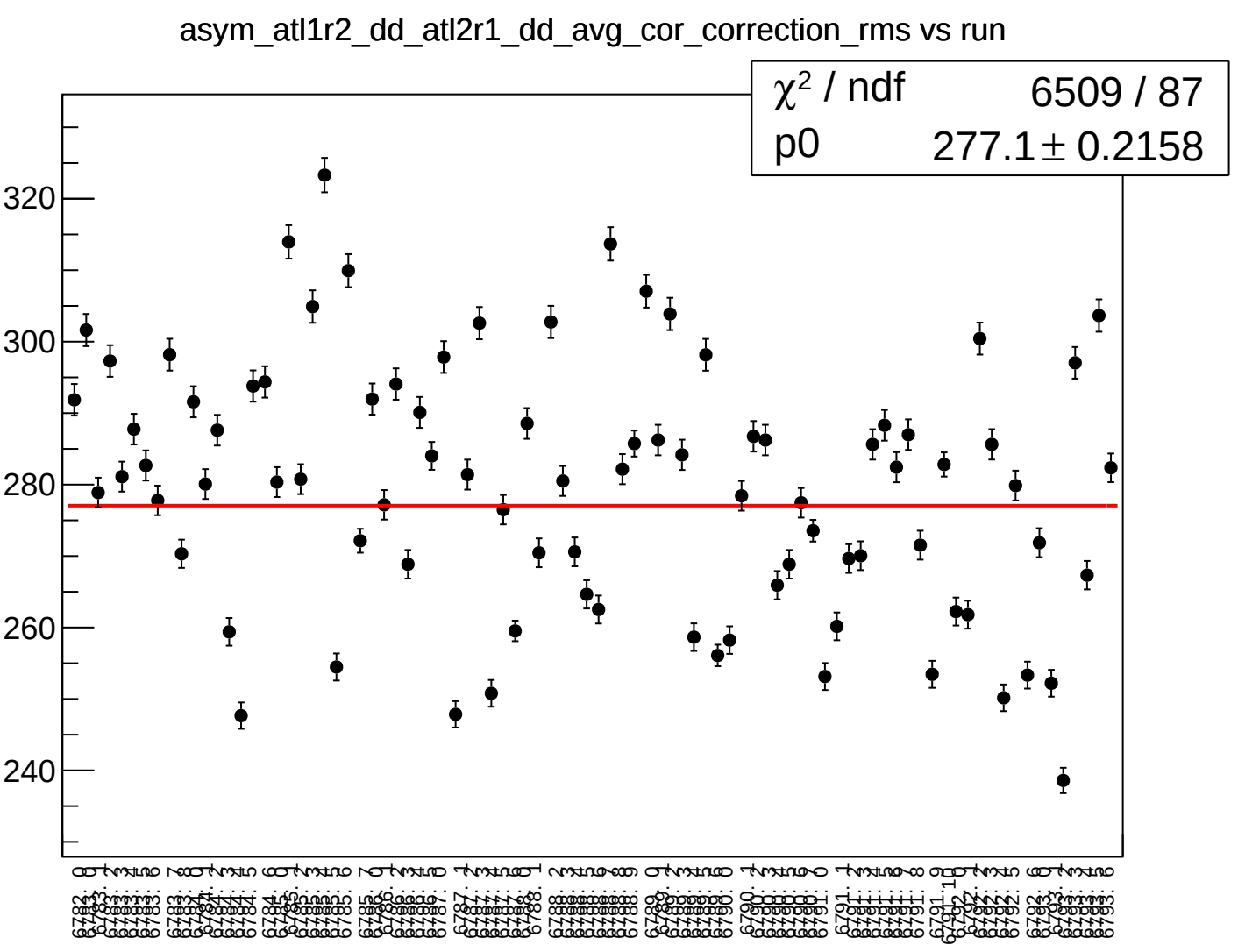

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.2 / 87
p0 −0.1721 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 396.9
Std Dev 0
3
2
1
0
−1
−2

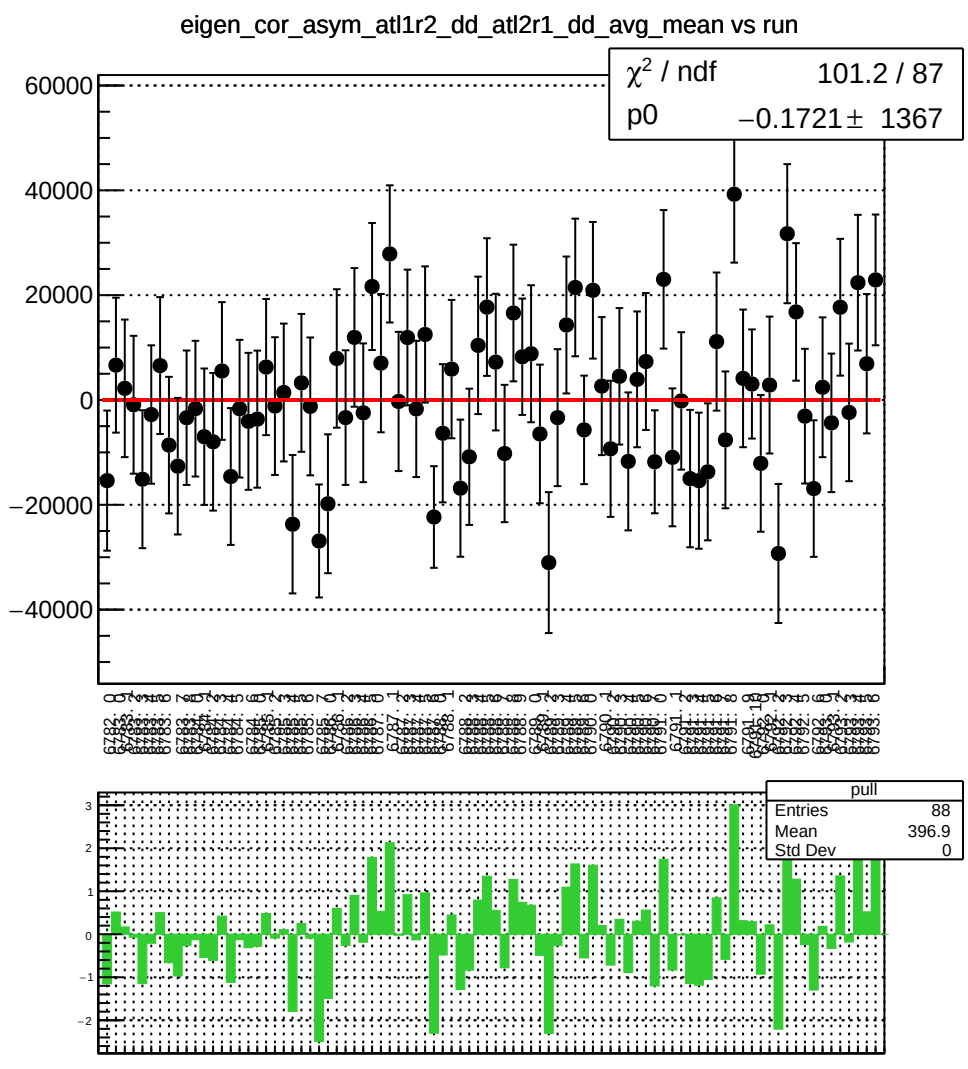

pull1D
Entries 88
Mean 0.01532
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

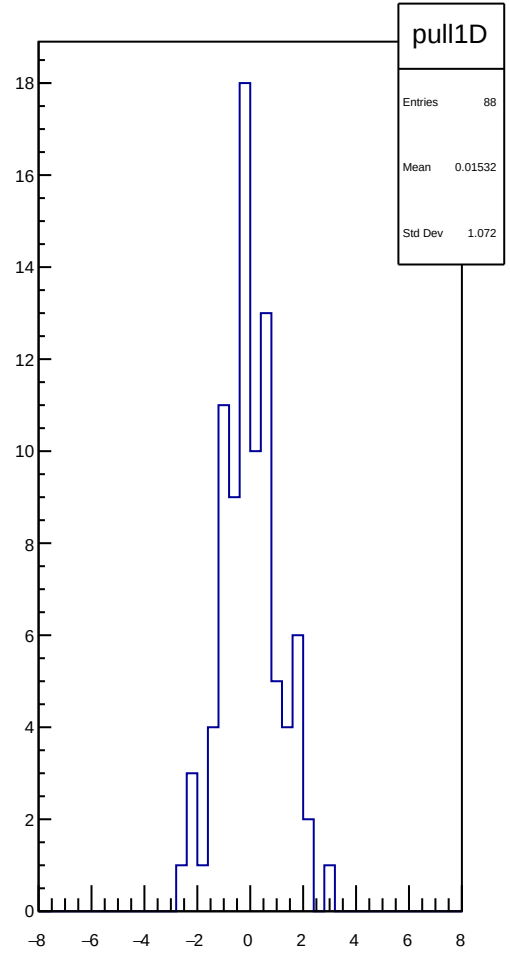

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 102.1 / 87
p0 1243 ± 0.9663
1290
1280
1270
1260
1250
1240
1230
1220
1210

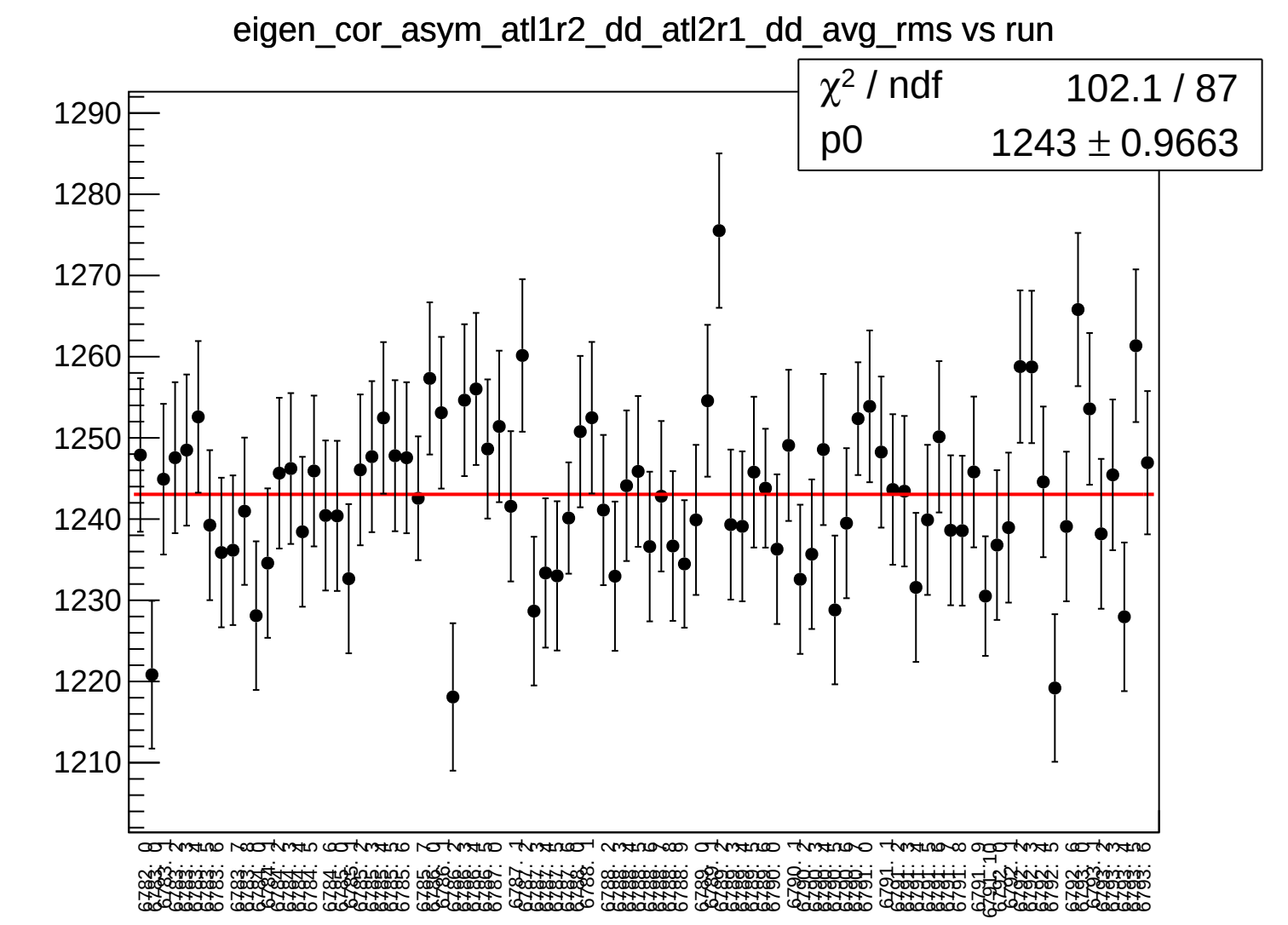

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 112.2 / 87
p0 −743.7 ± 305.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −115.2
Std Dev 0
2
1
0
−1
−2

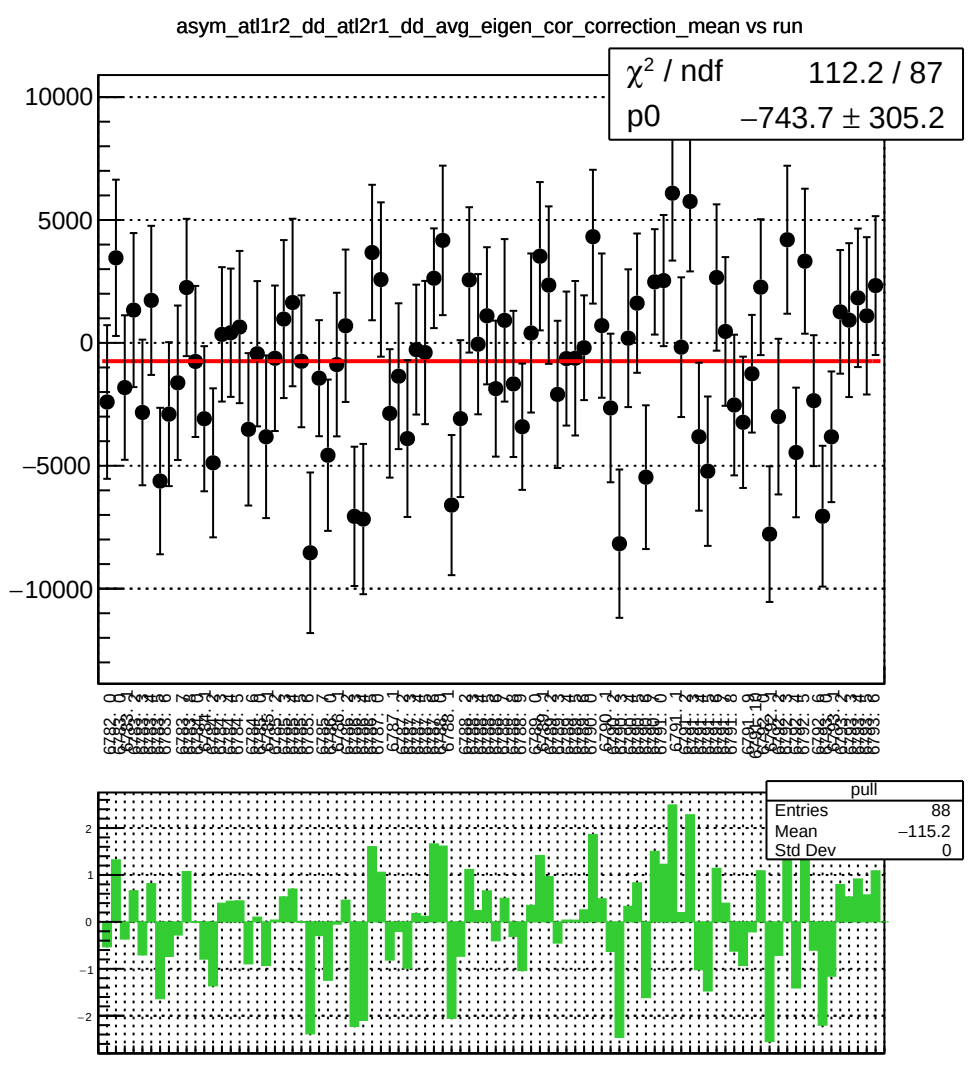

pull1D
Entries 88
Mean −0.01721
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

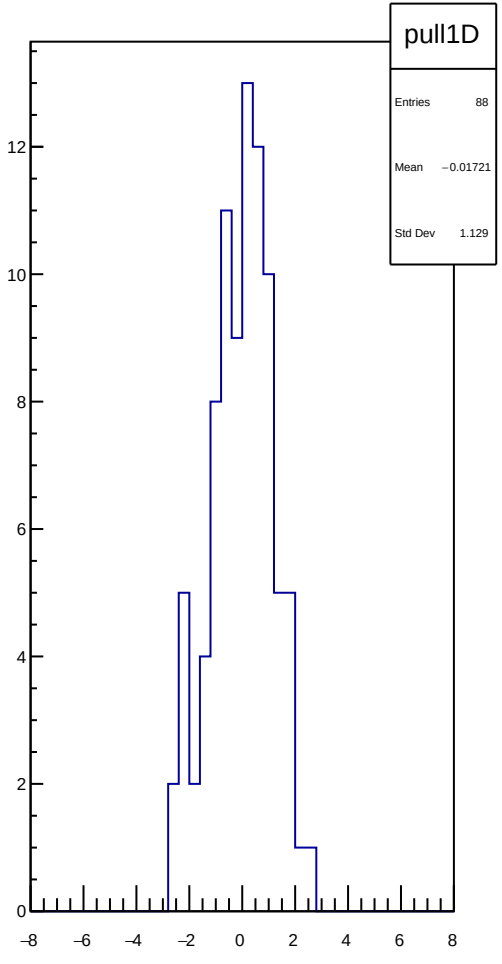

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 6509 / 87
p0 277.1 ± 0.2158
320
300
280
260
240

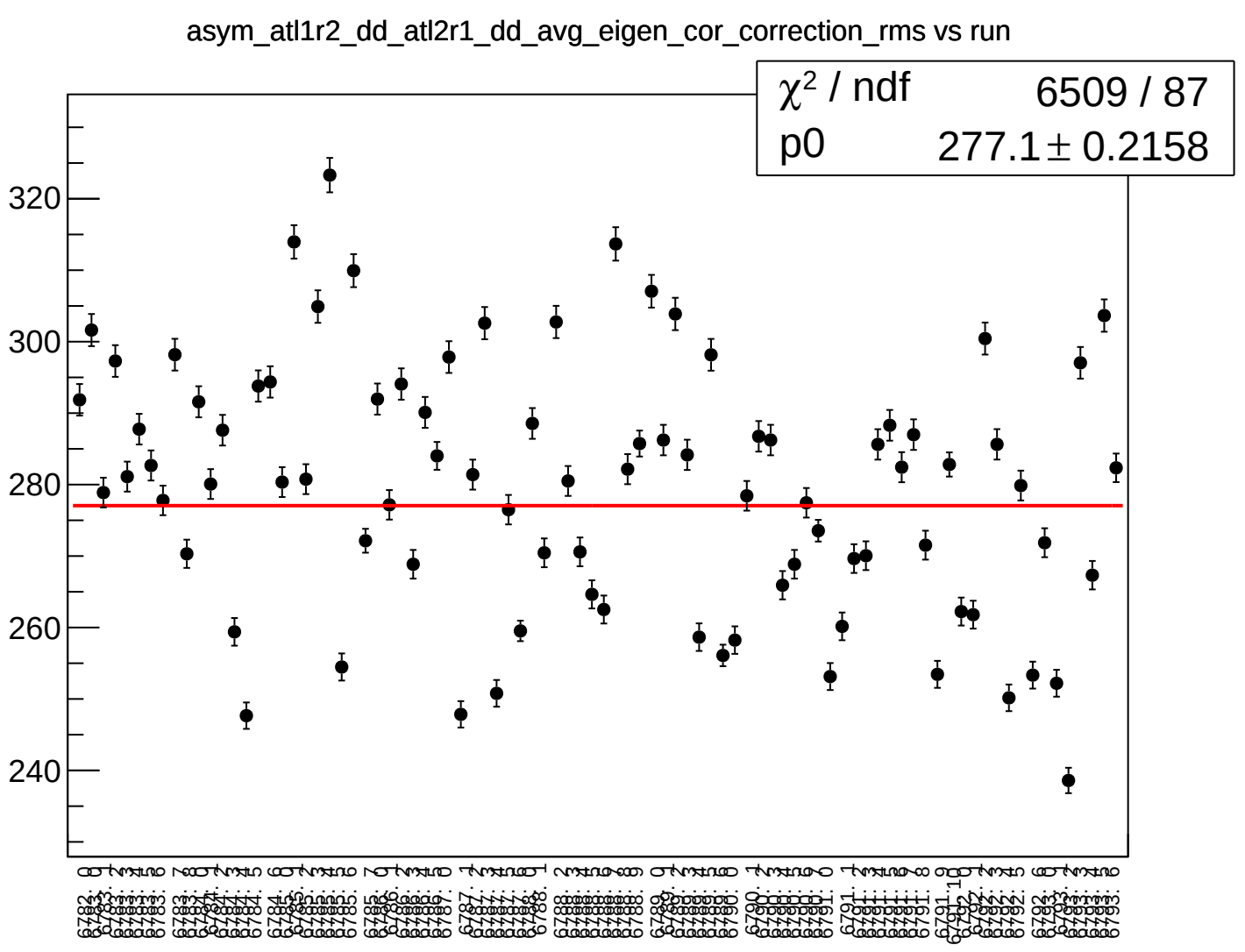

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.2 / 87
p0 −0.1721 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 396.9
Std Dev 0
3
2
1
0
−1
−2

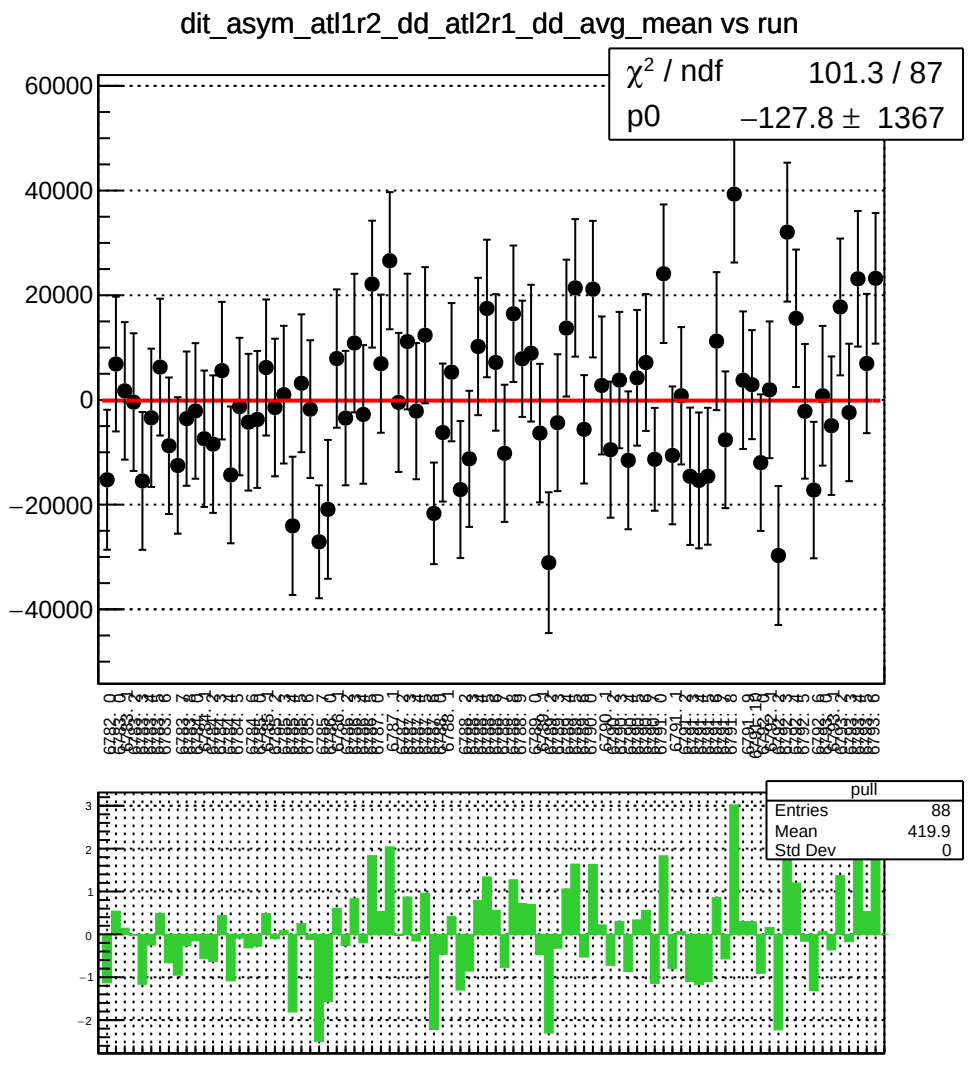

pull1D
Entries 88
Mean 0.01532
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

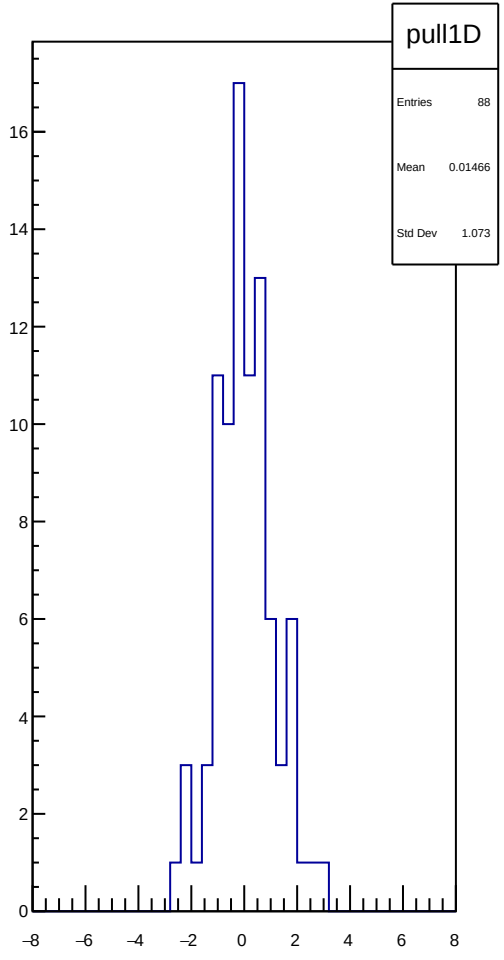

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 102.1 / 87
p0 1243 ± 0.9663
1290
1280
1270
1260
1250
1240
1230
1220
1210

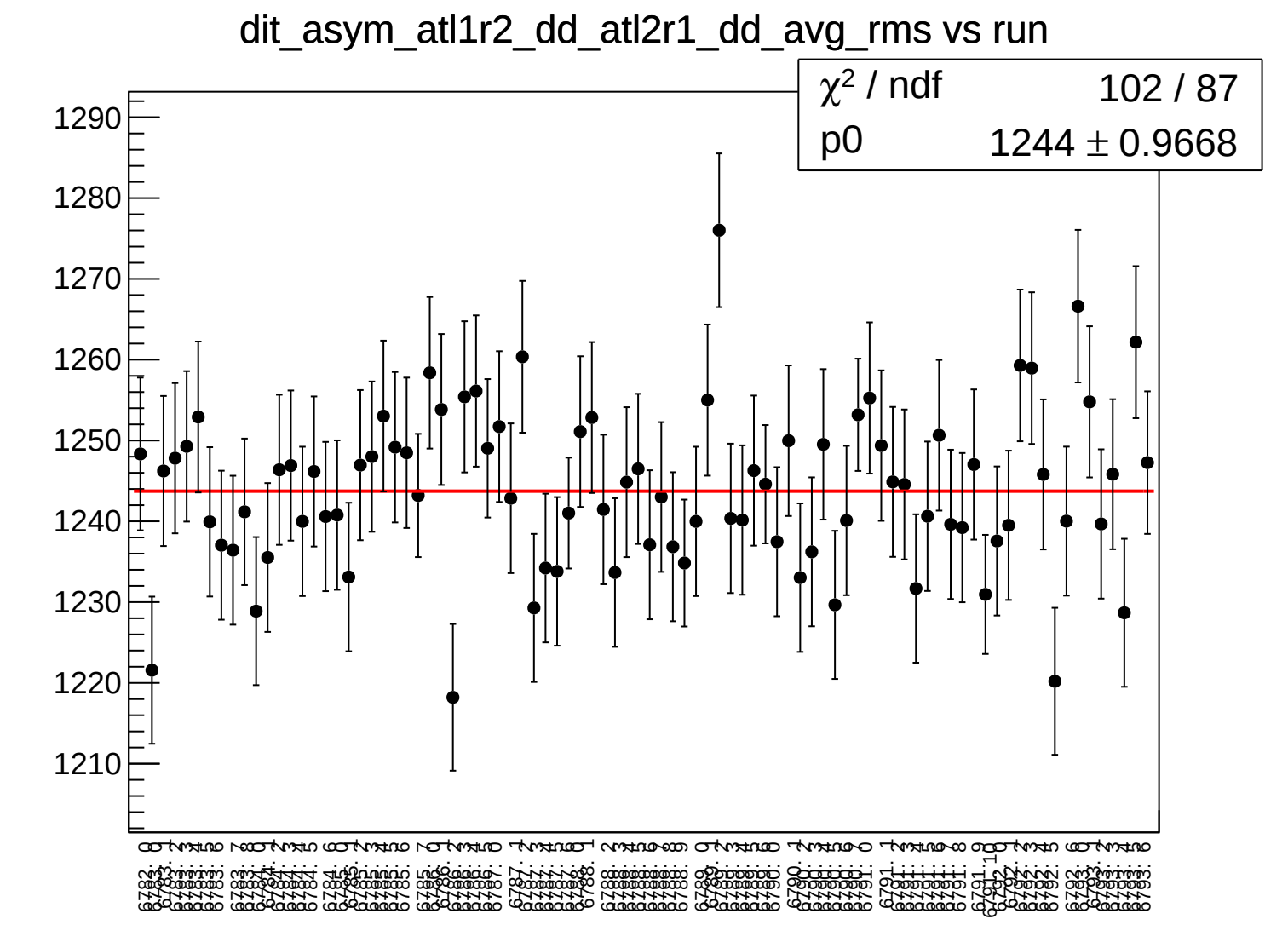

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.2 / 87
p0 −743.7 ± 305.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −115.2
Std Dev 0
2
1
0
−1
−2

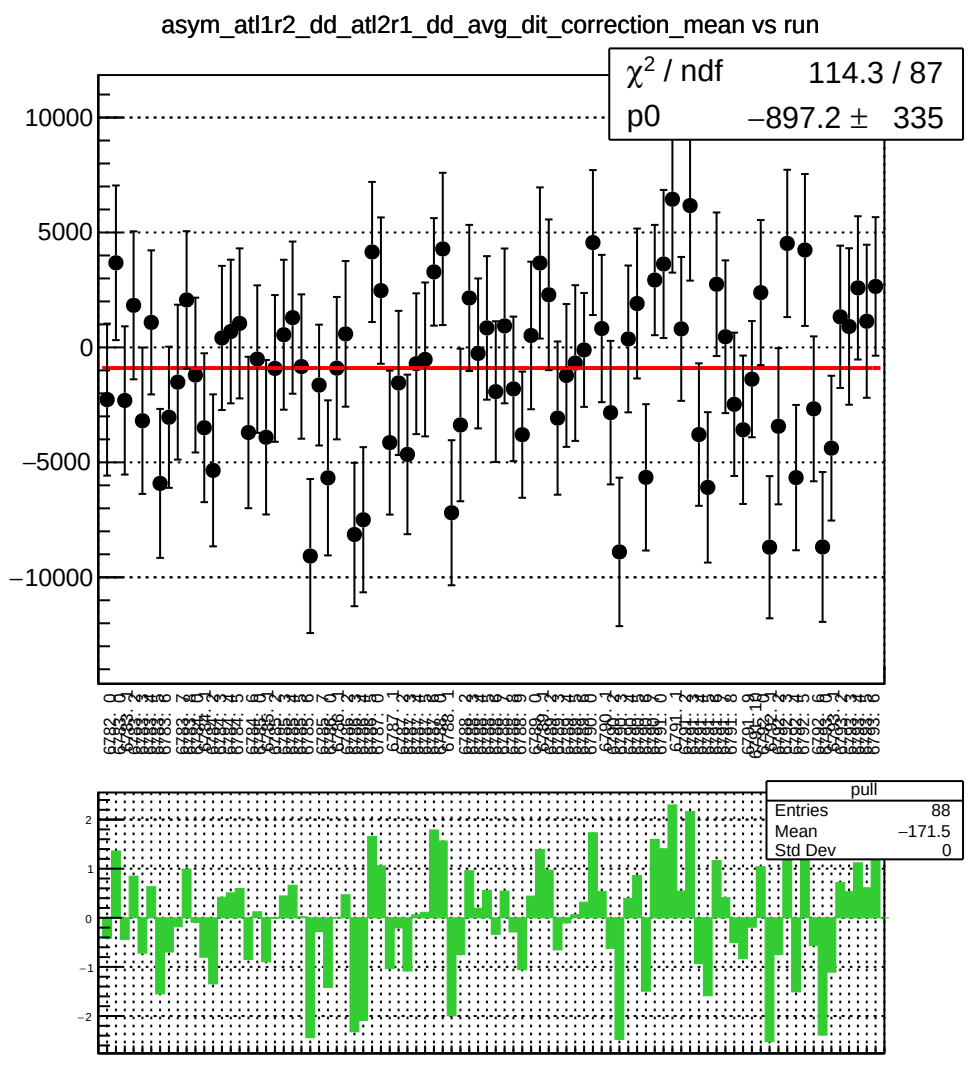

pull1D
Entries 88
Mean −0.01721
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

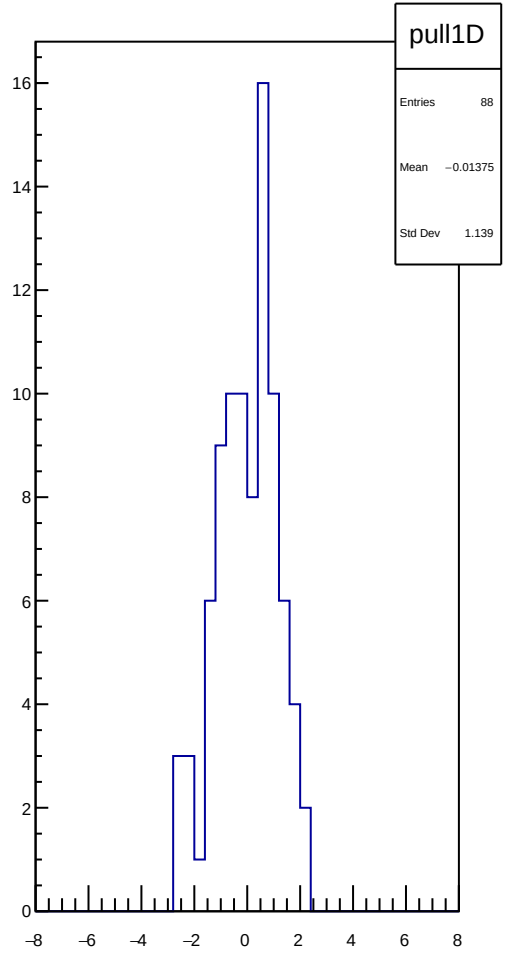

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6509 / 87
p0 277.1 ± 0.2158
320
300
280
260
240

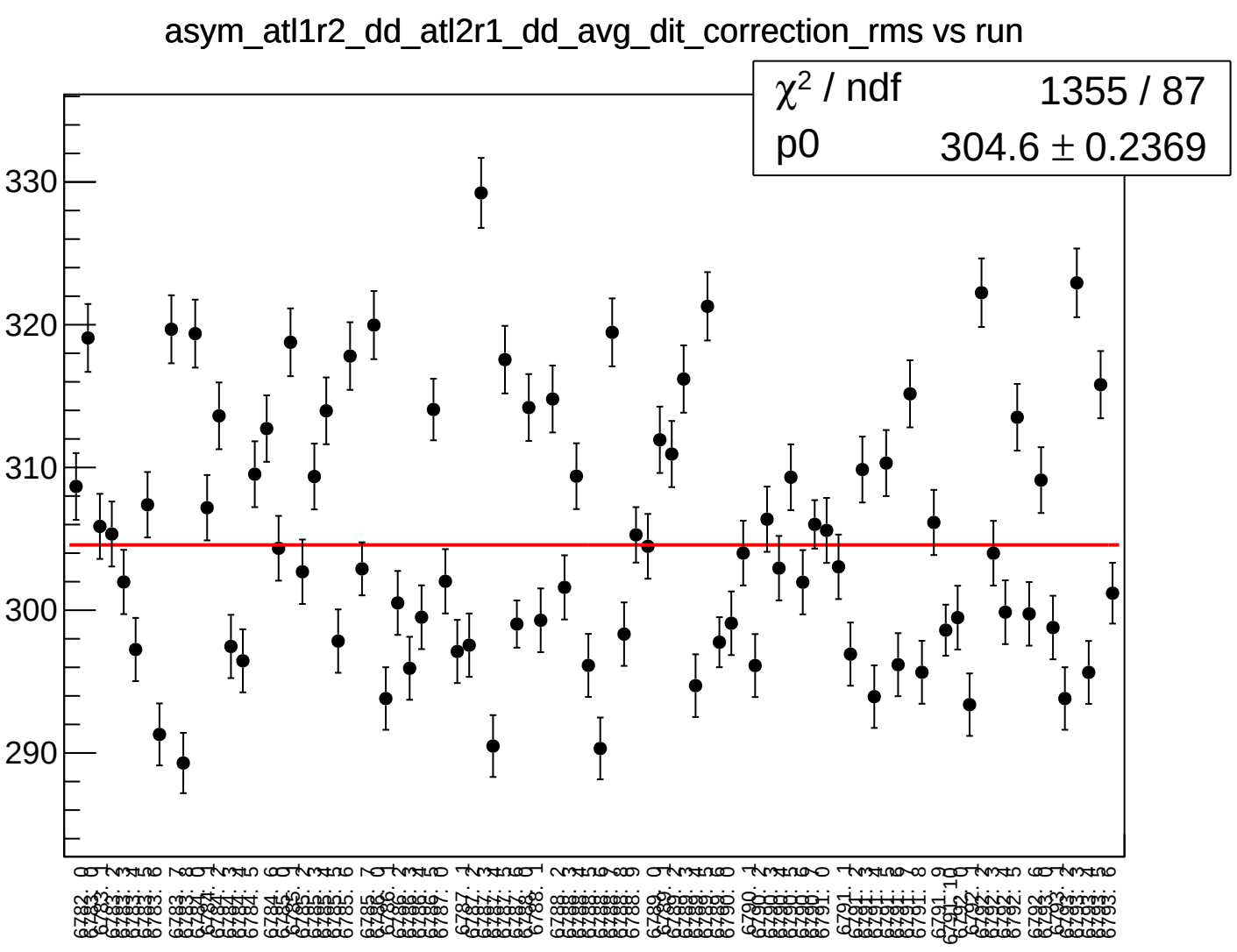

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.3 / 87
p0 −127.8 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 419.9
Std Dev 0
3
2
1
0
−1
−2

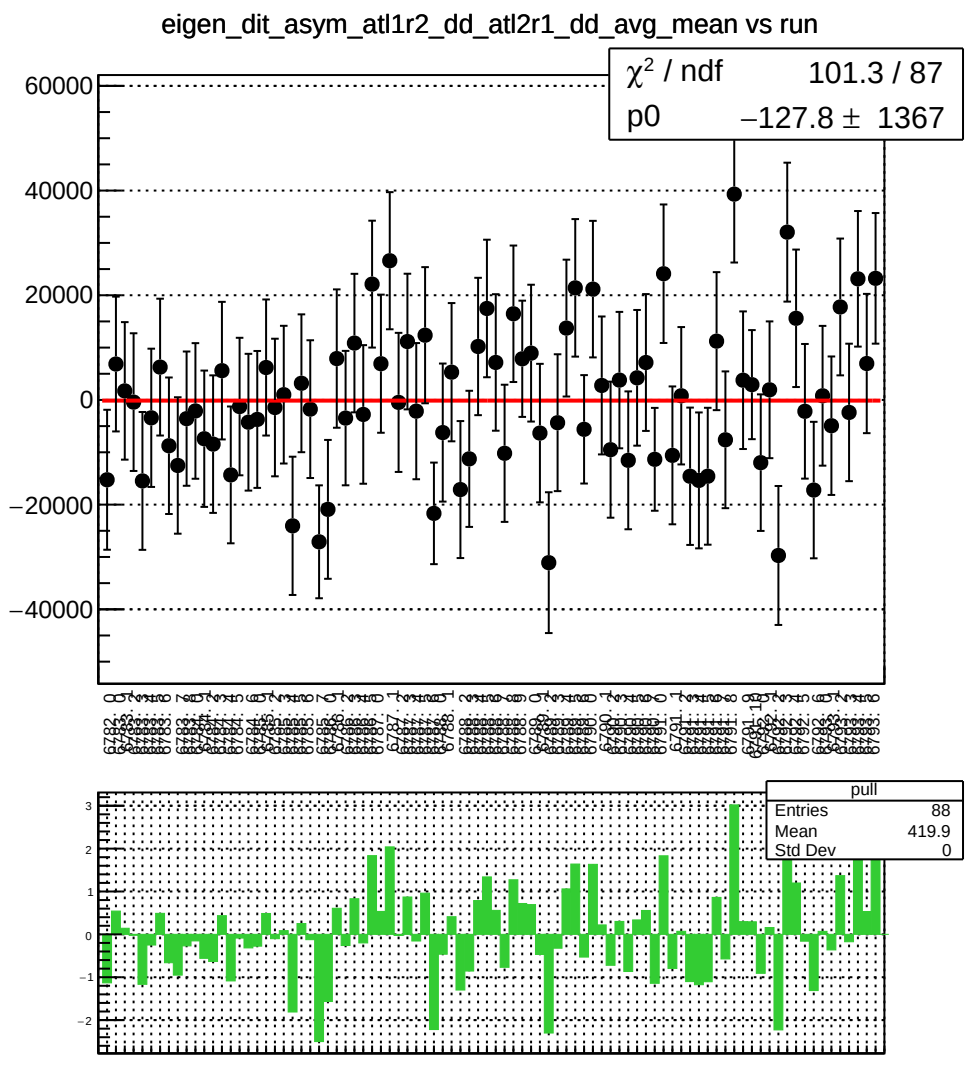

pull1D
Entries 88
Mean 0.01466
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

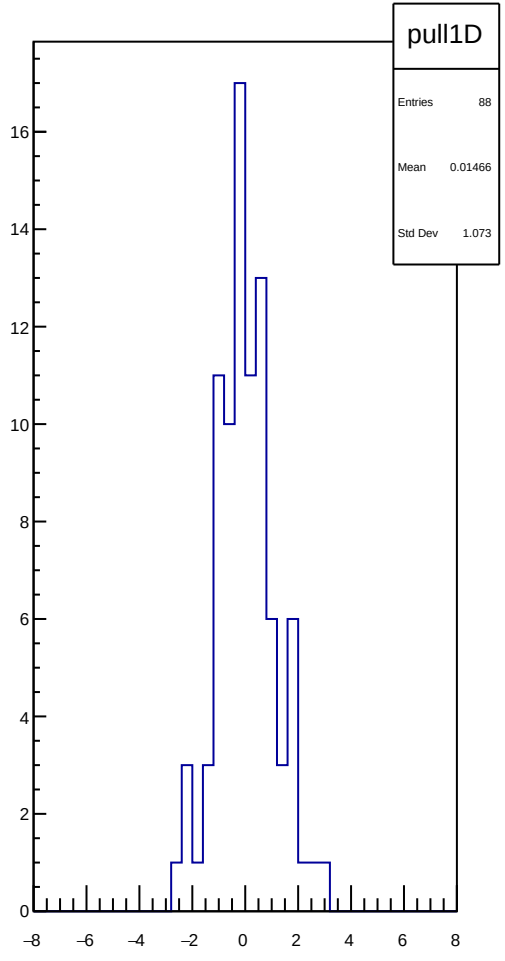

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 102 / 87
p0 1244 ± 0.9668
1290
1280
1270
1260
1250
1240
1230
1220
1210

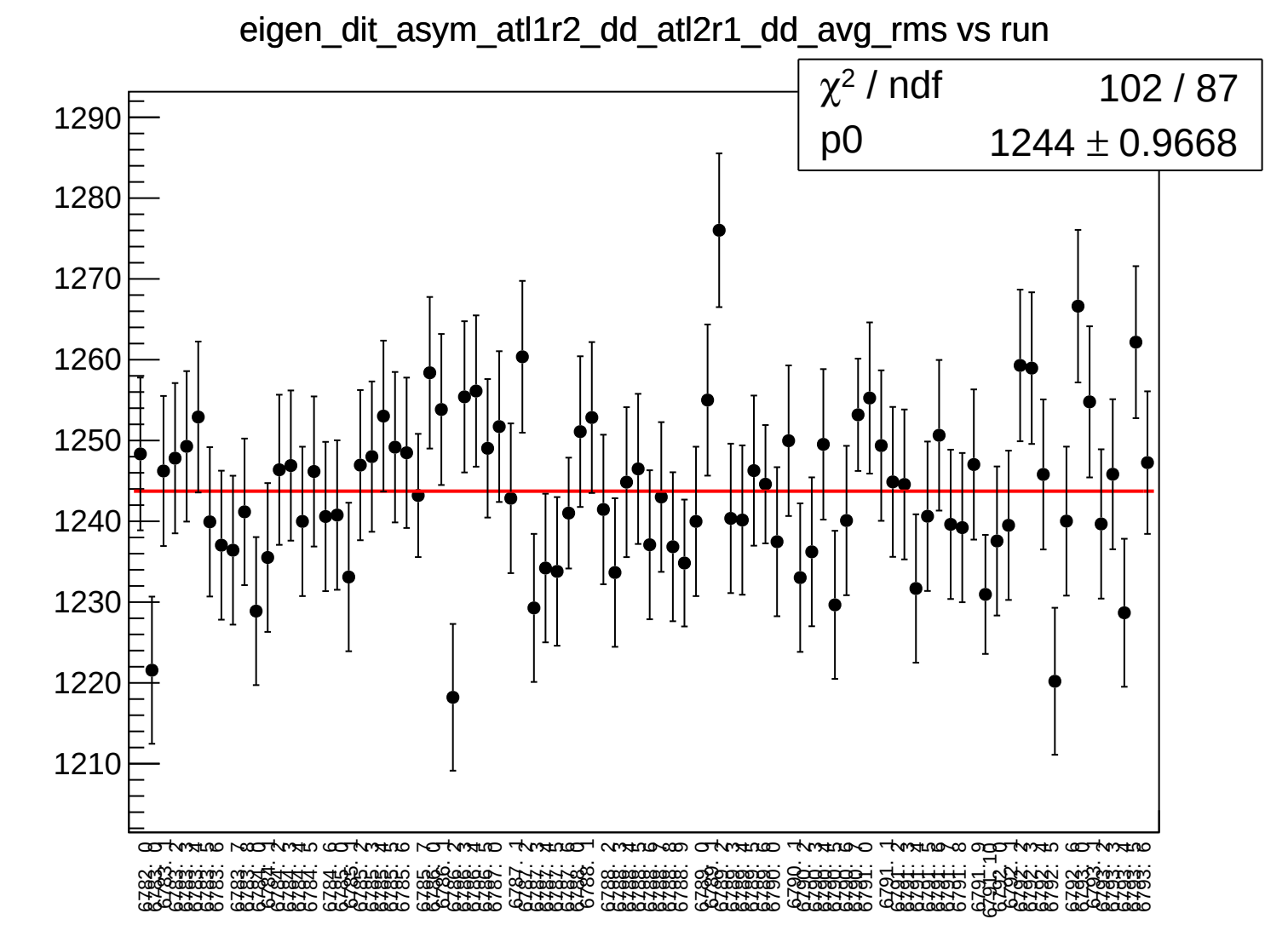

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 114.3 / 87
p0 −897.2 ± 335
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −171.5
Std Dev 0
2
1
0
−1
−2

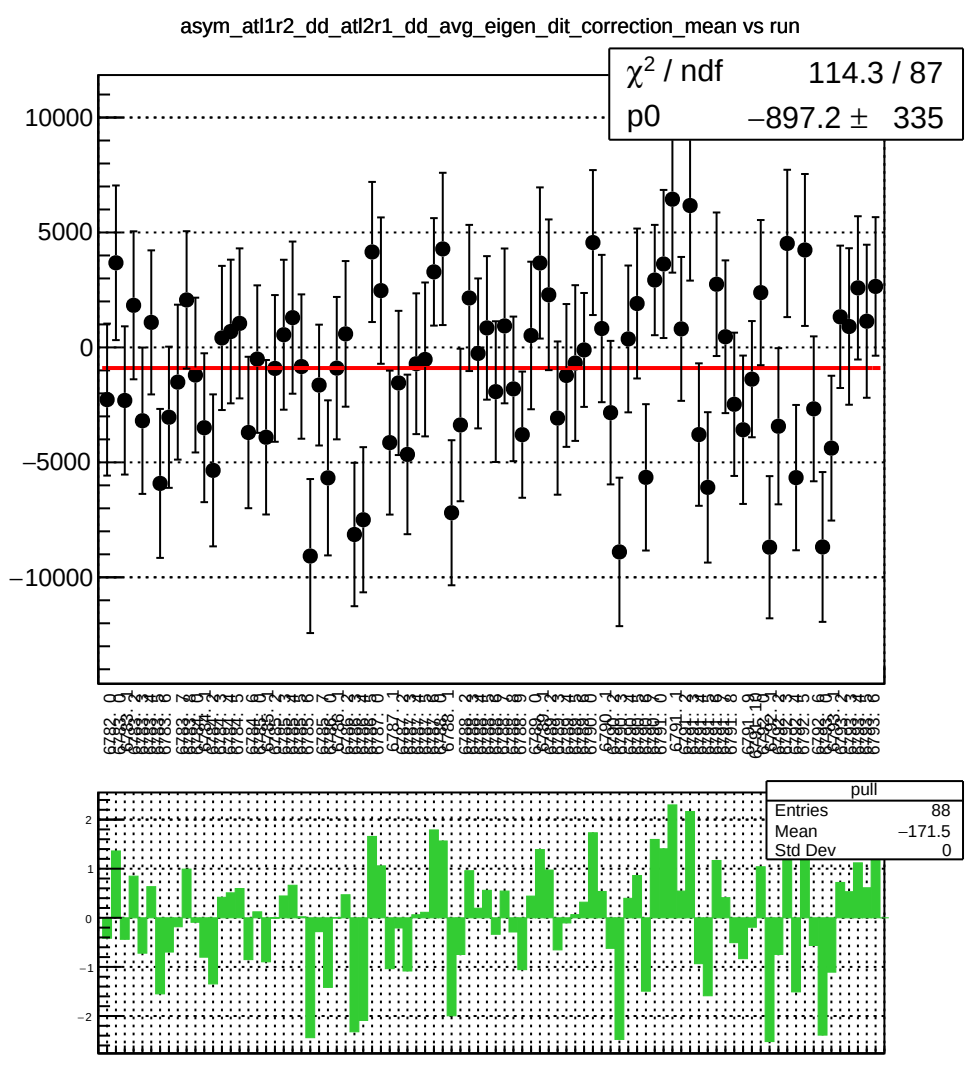

pull1D
Entries 88
Mean −0.01375
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

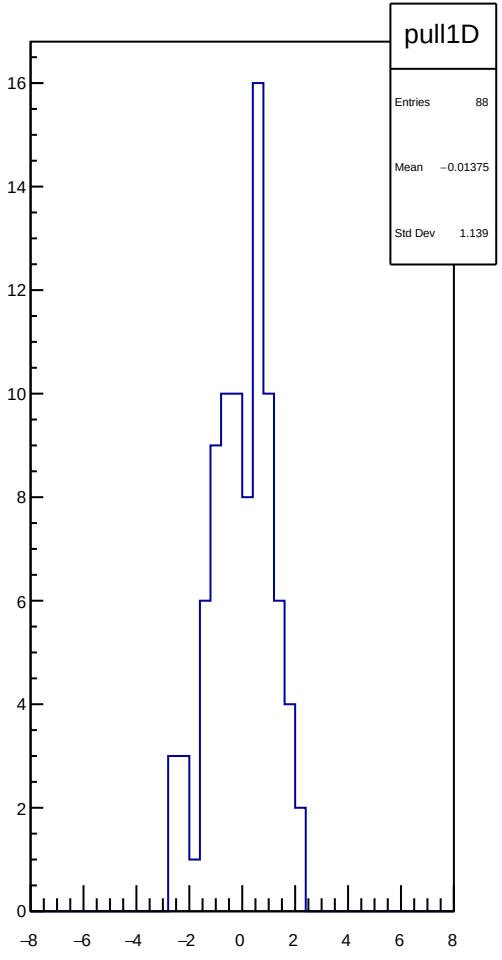

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1355 / 87
p0 304.6 ± 0.2369
330
320
310
300
290

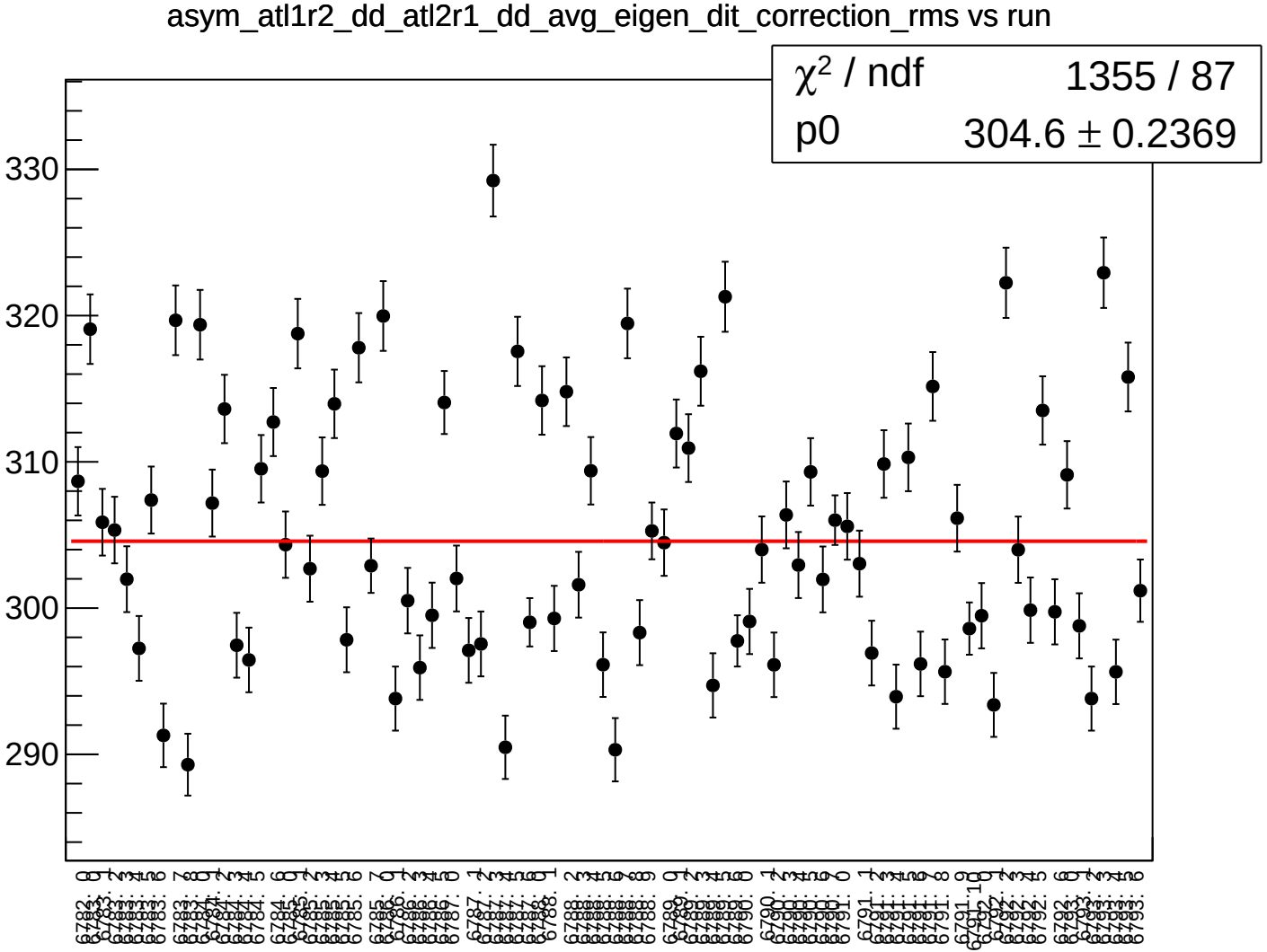

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.3 / 87
p0 −127.8 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 419.9
Std Dev 0
3
2
1
0
−1
−2

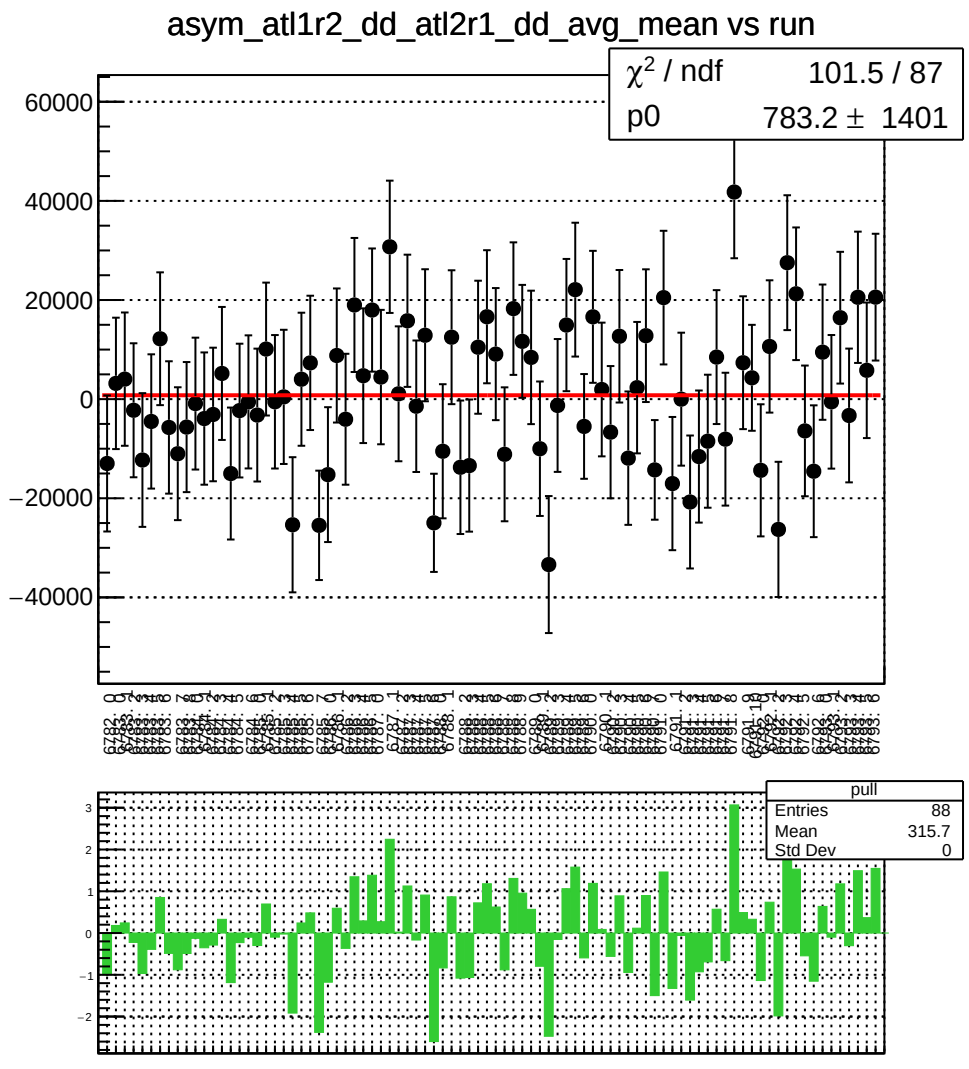

pull1D
Entries 88
Mean 0.01466
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

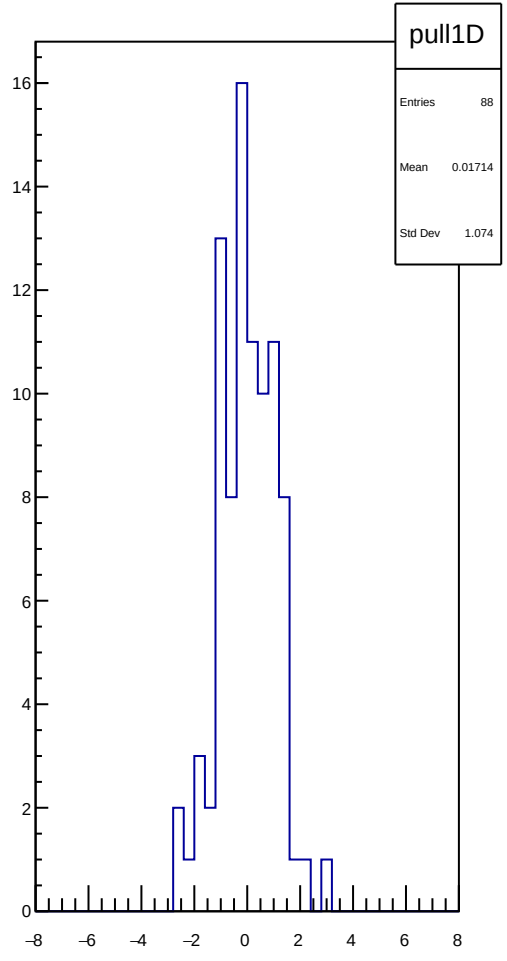

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 102 / 87
p0 1244 ± 0.9668
1290
1280
1270
1260
1250
1240
1230
1220
1210

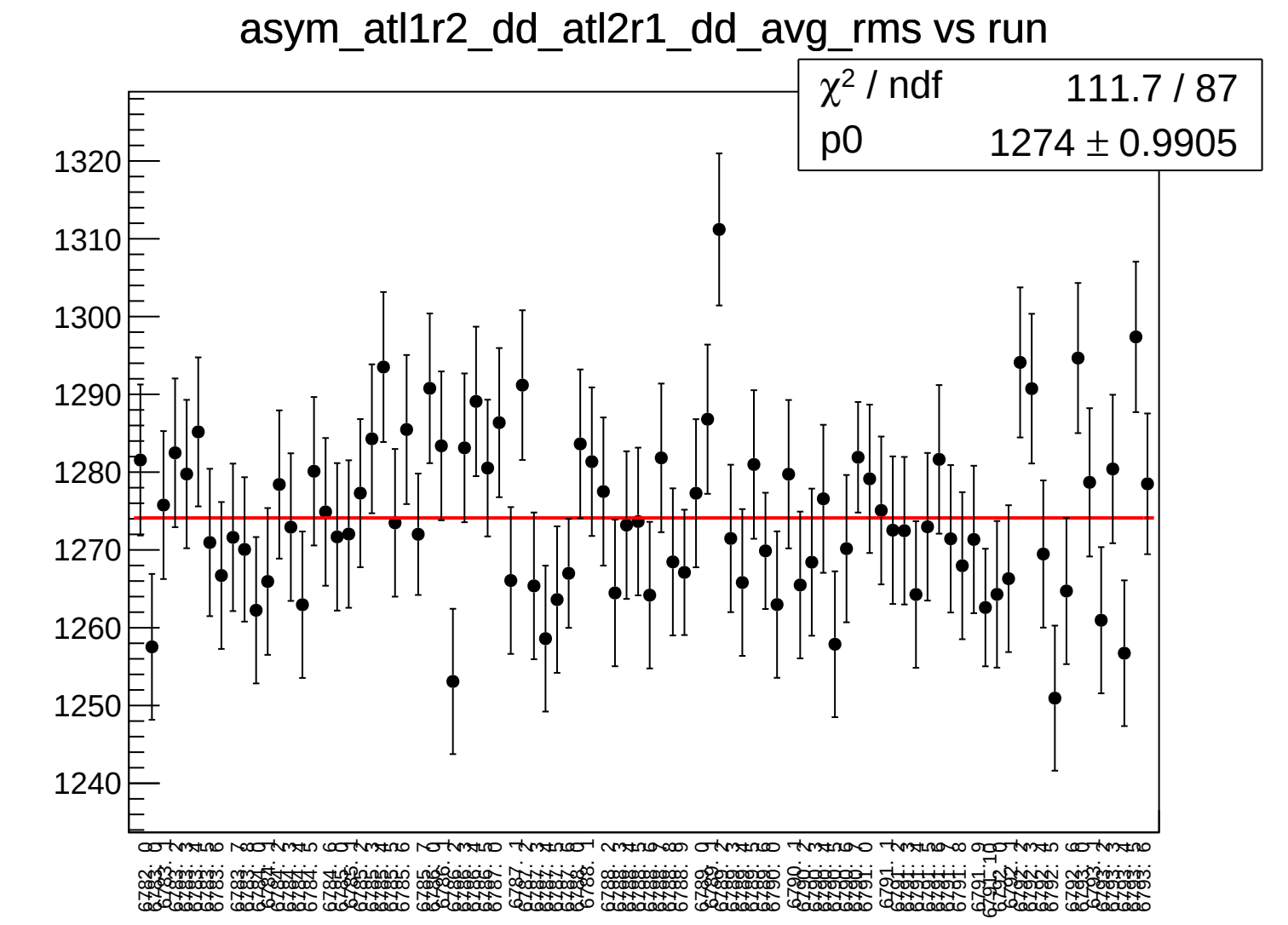

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.3 / 87
p0 −897.2 ± 335
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −171.5
Std Dev 0
2
1
0
−1
−2

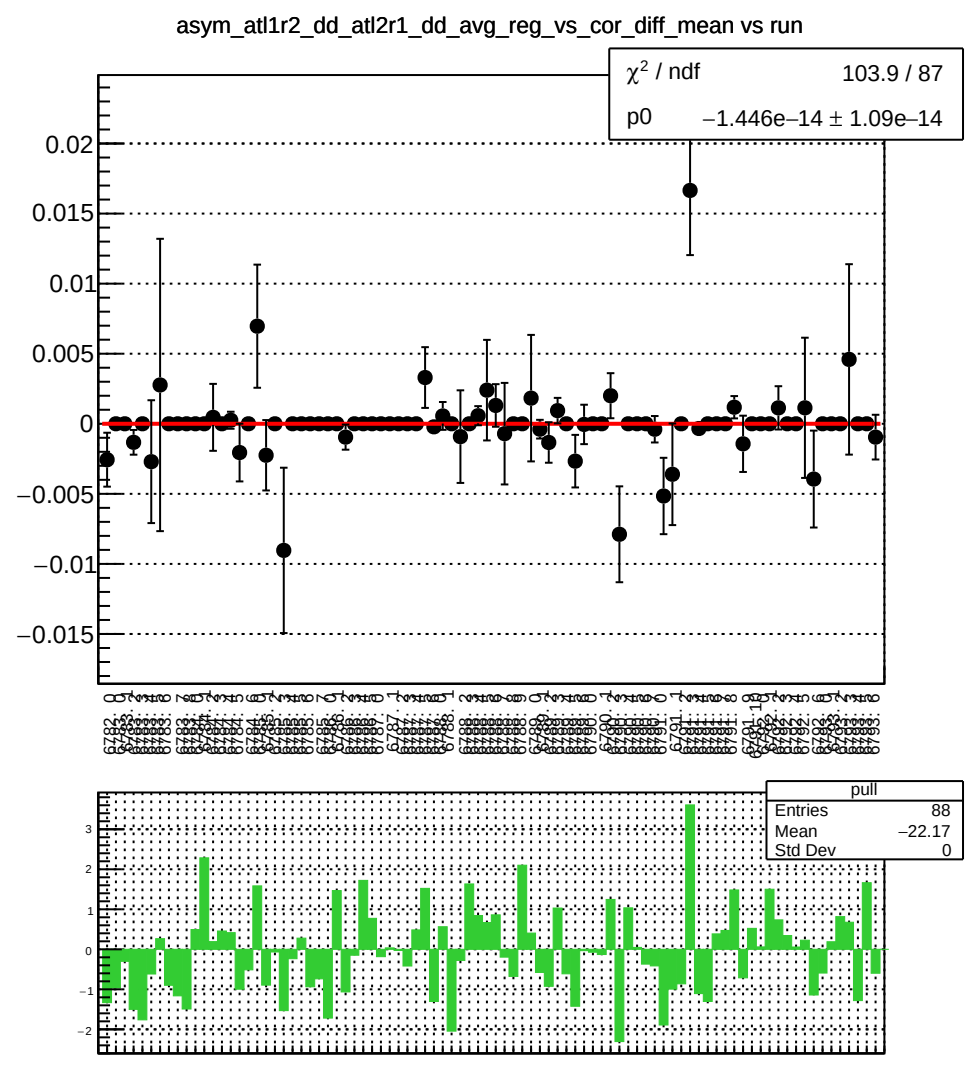

pull1D
Entries 88
Mean −0.01375
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

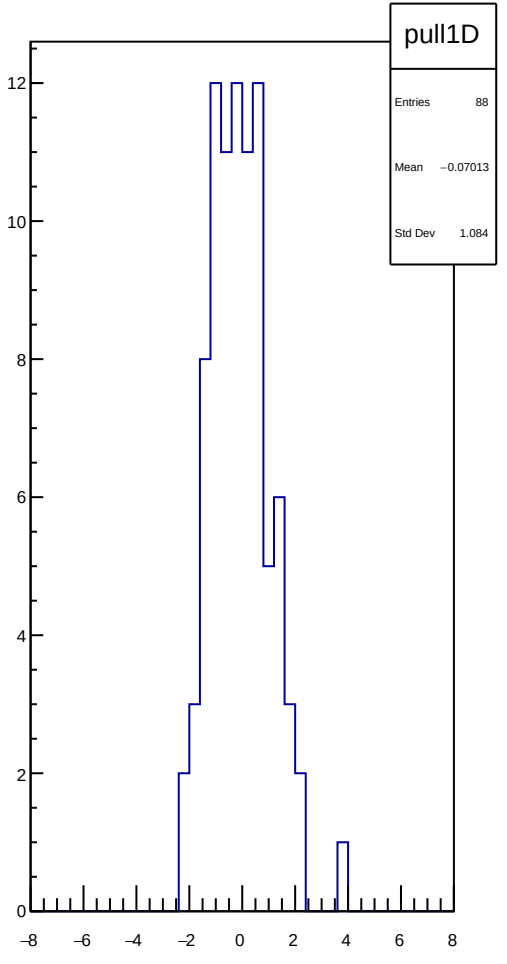

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1355 / 87
p0 304.6 ± 0.2369
330
320
310
300
290

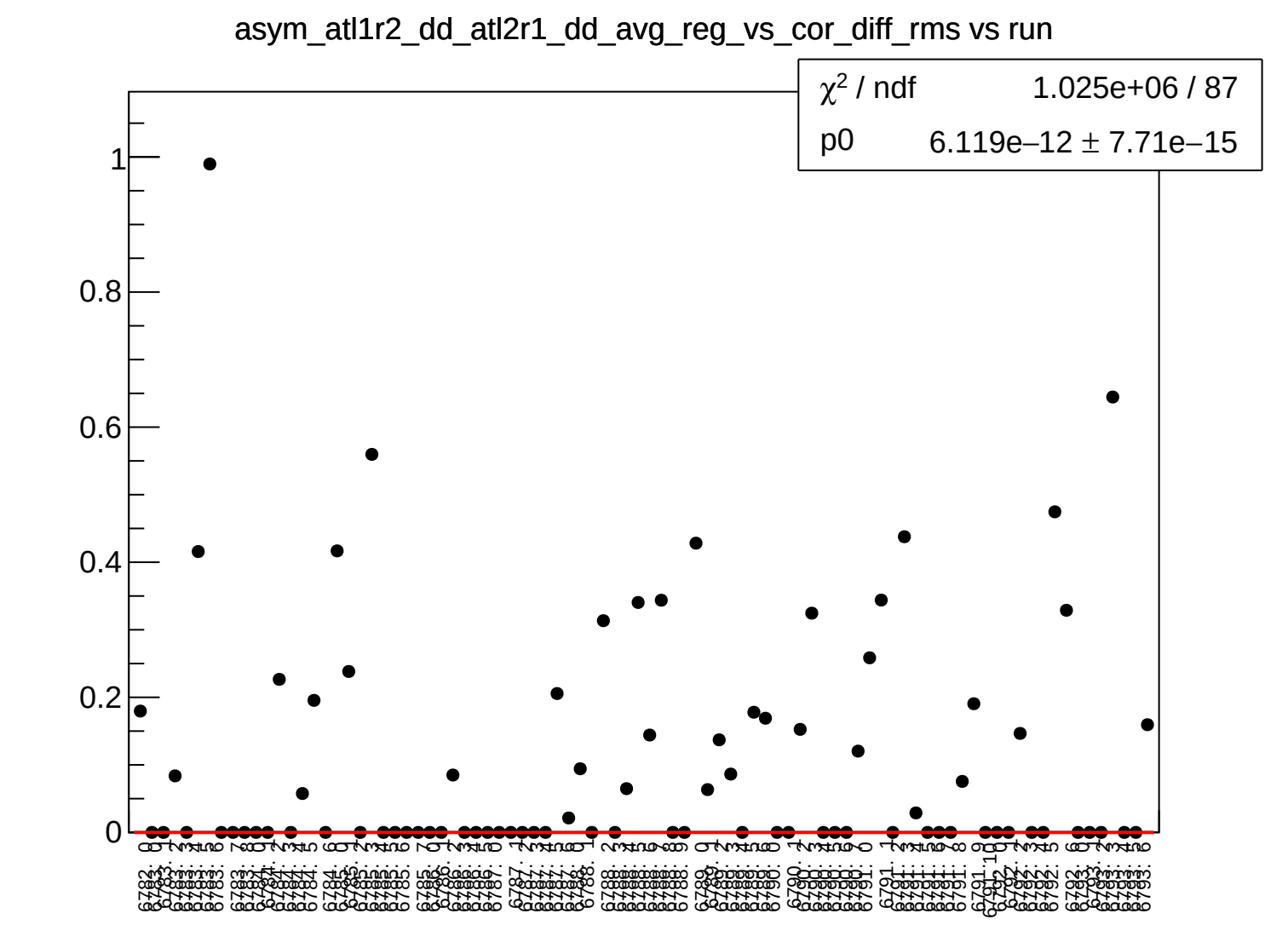

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.5 / 87
p0 783.2 ± 1401
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 315.7
Std Dev 0
3
2
1
0
−1
−2

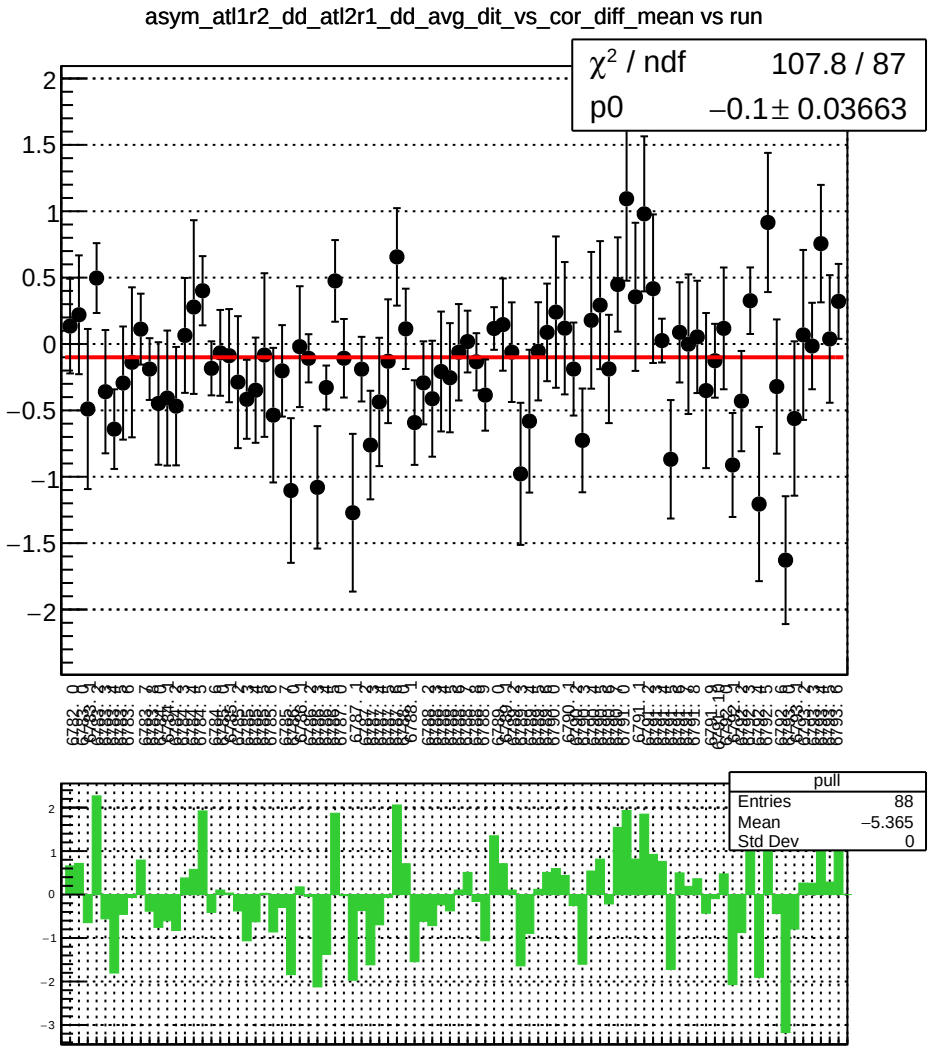

pull1D
Entries 88
Mean 0.01714
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

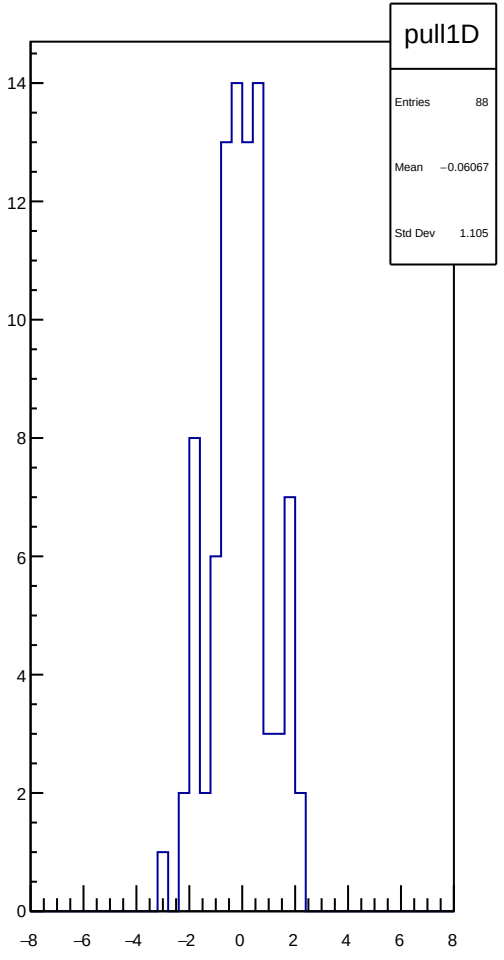

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111.7 / 87
p0 1274 ± 0.9905
1320
1310
1300
1290
1280
1270
1260
1250
1240

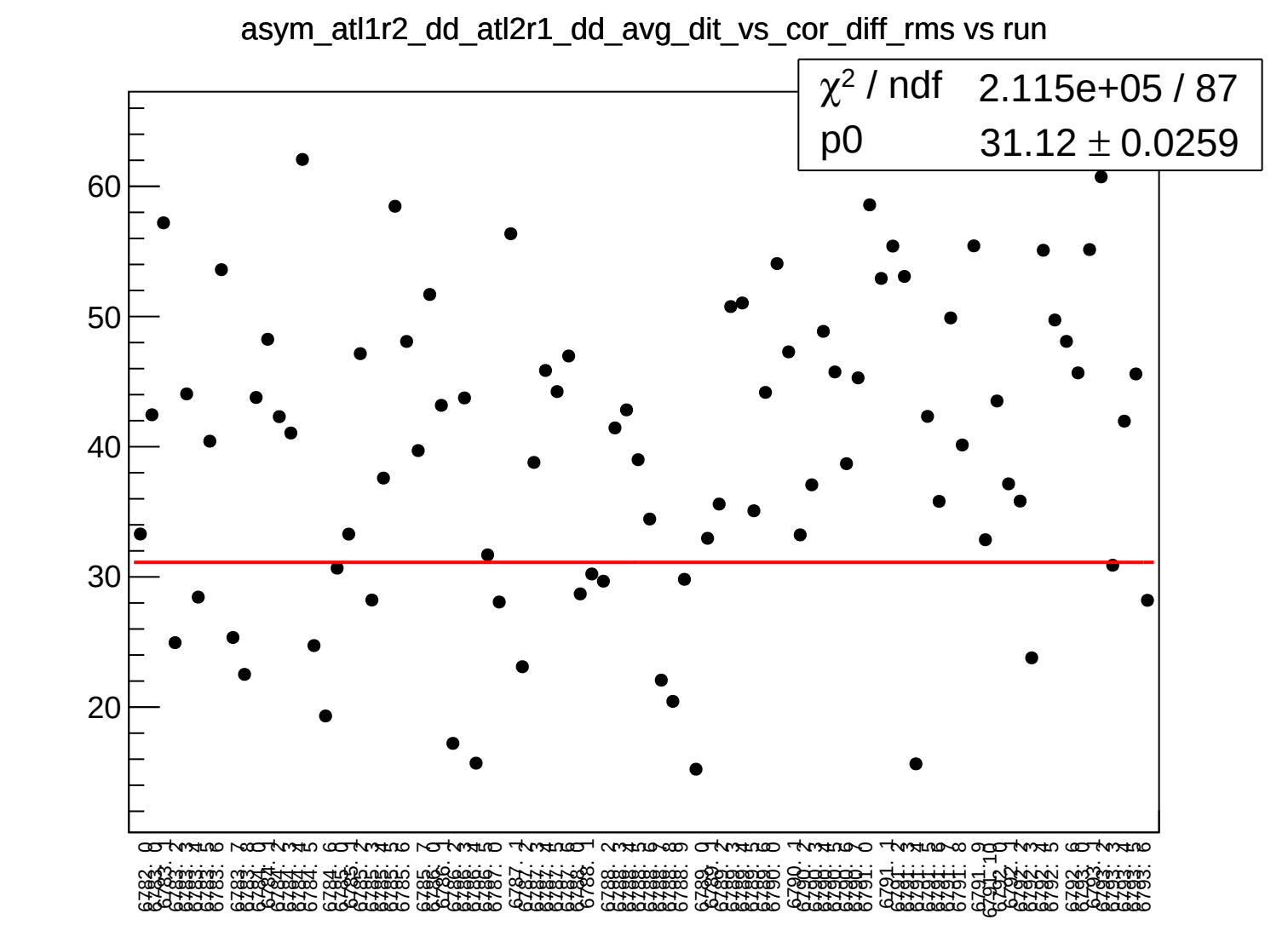

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 87
p0 −1.446e−14 ± 1.09e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −22.17
Std Dev 0
3
2
1
0
−1
−2

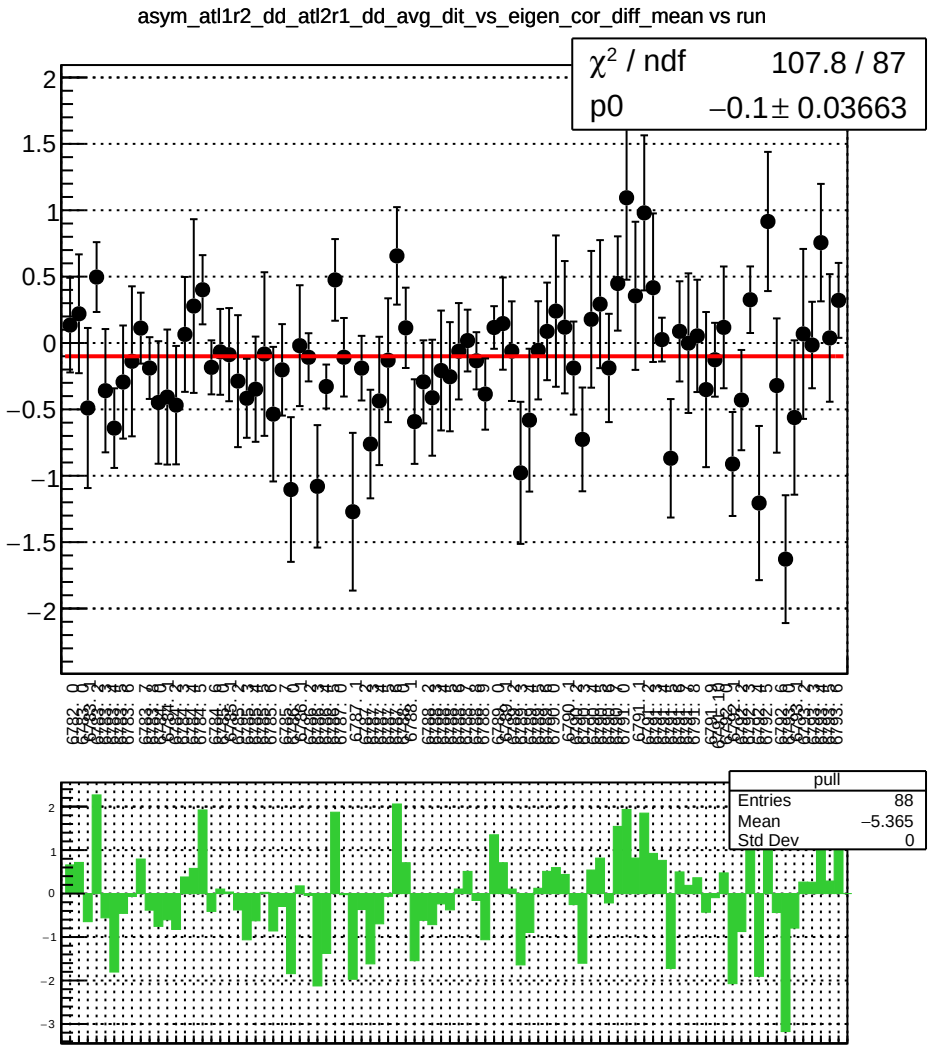

pull1D
Entries 88
Mean −0.07013
Std Dev 1.084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

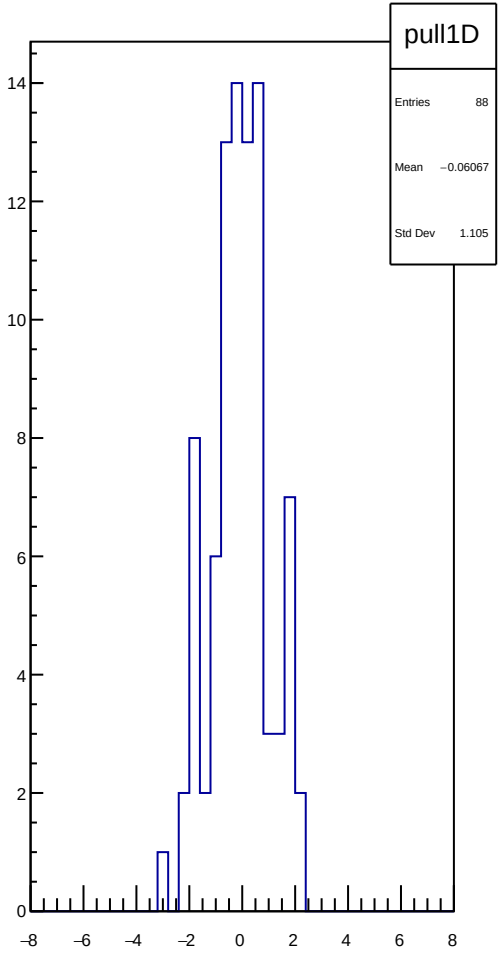

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 87
p0 6.119e−12 ± 7.71e−15
1
0.8
0.6
0.4
0.2
0

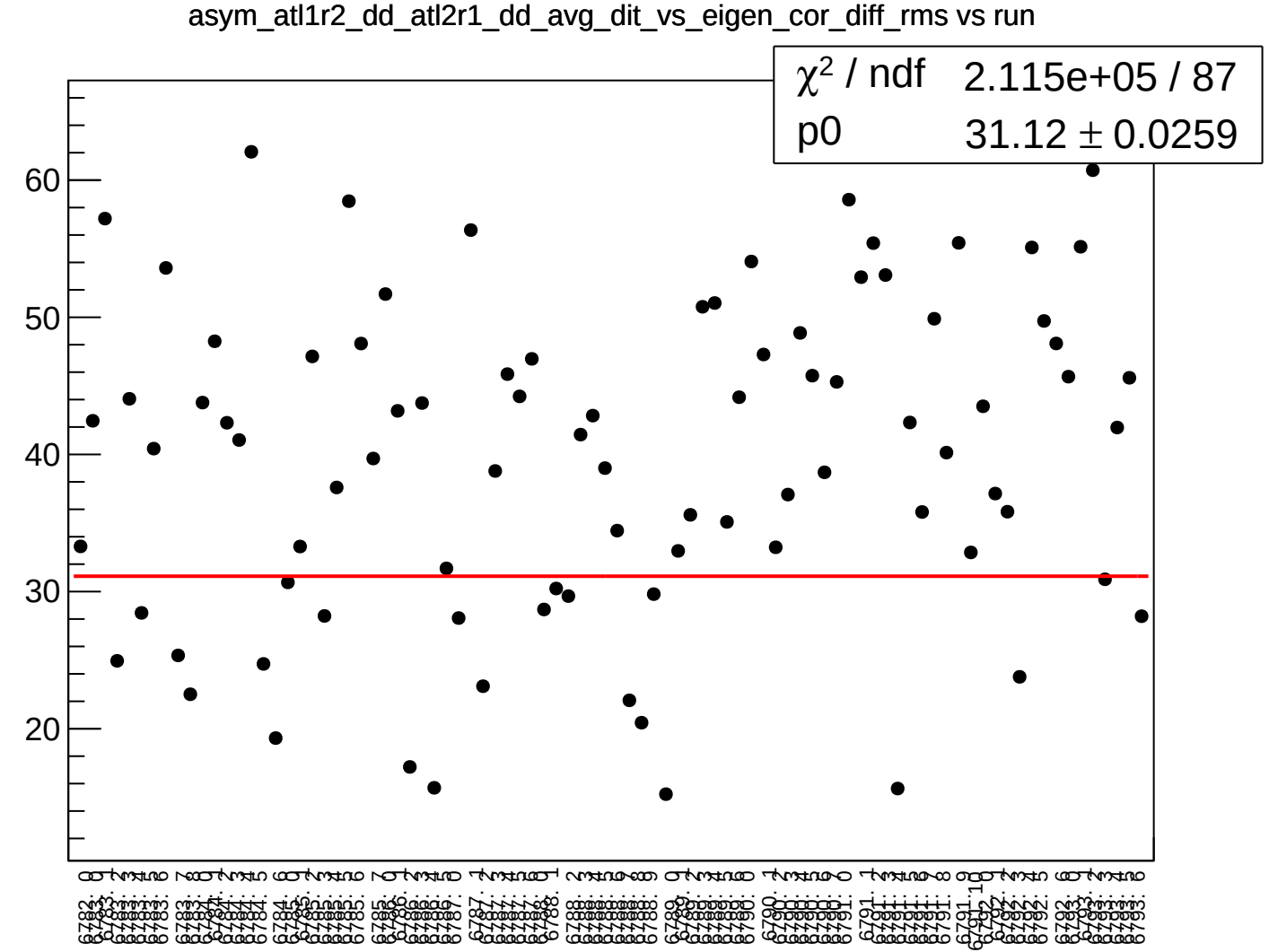

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1± 0.03663
pull
Entries 88
Mean −5.365
Std Dev 0

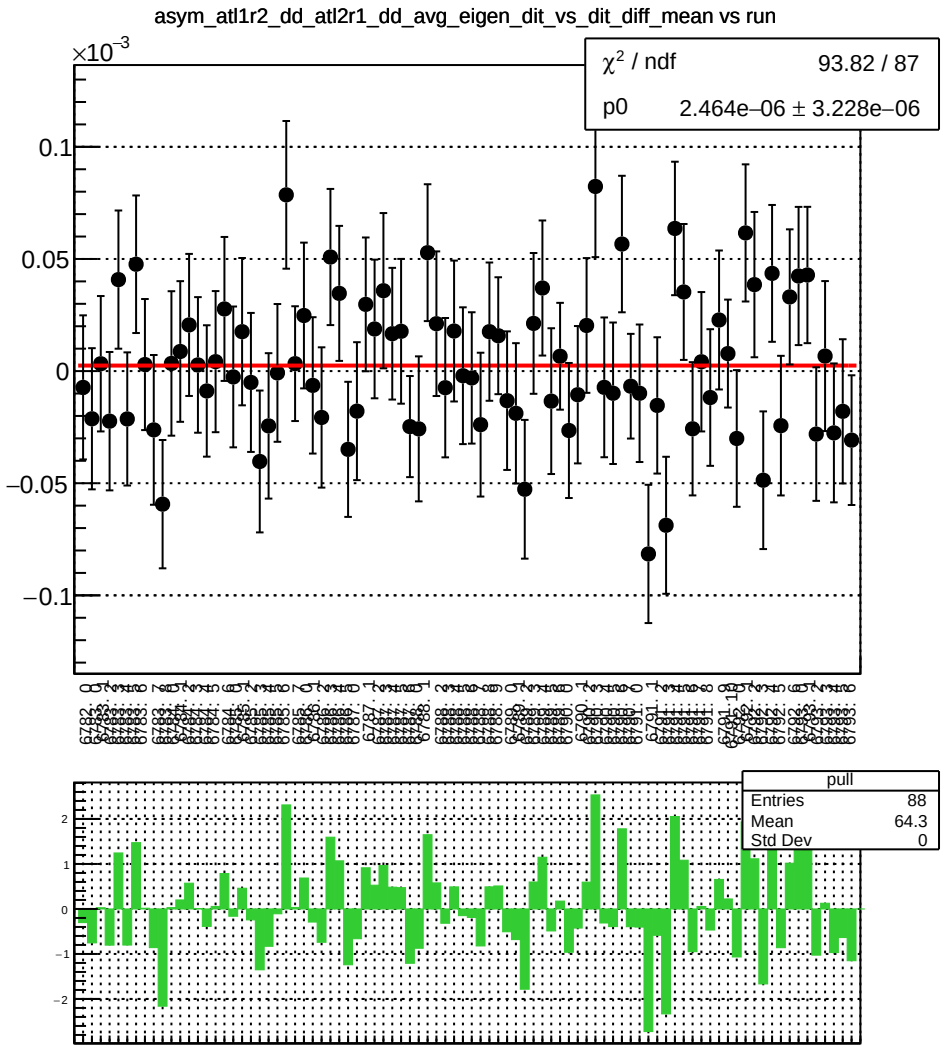

pull1D
Entries 88
Mean −0.06067
Std Dev 1.105

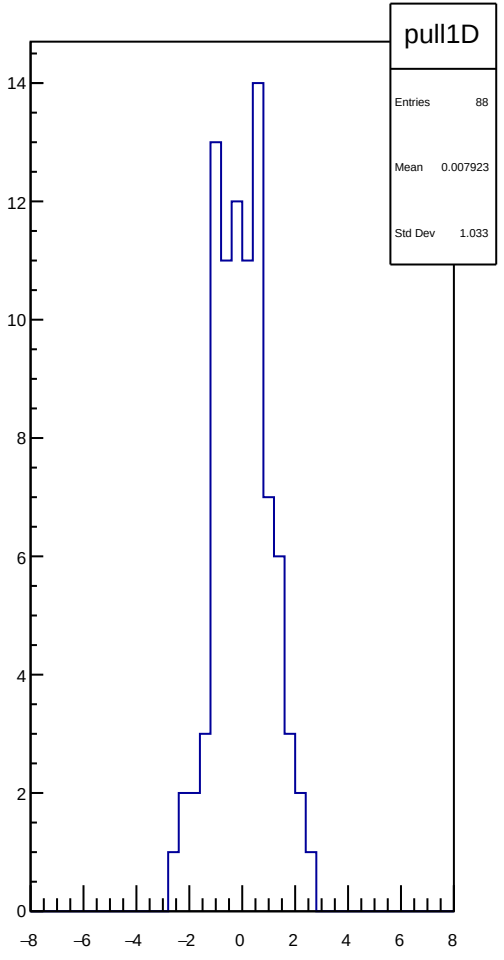

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 87
p0 31.12 ± 0.0259
60
50
40
30
20

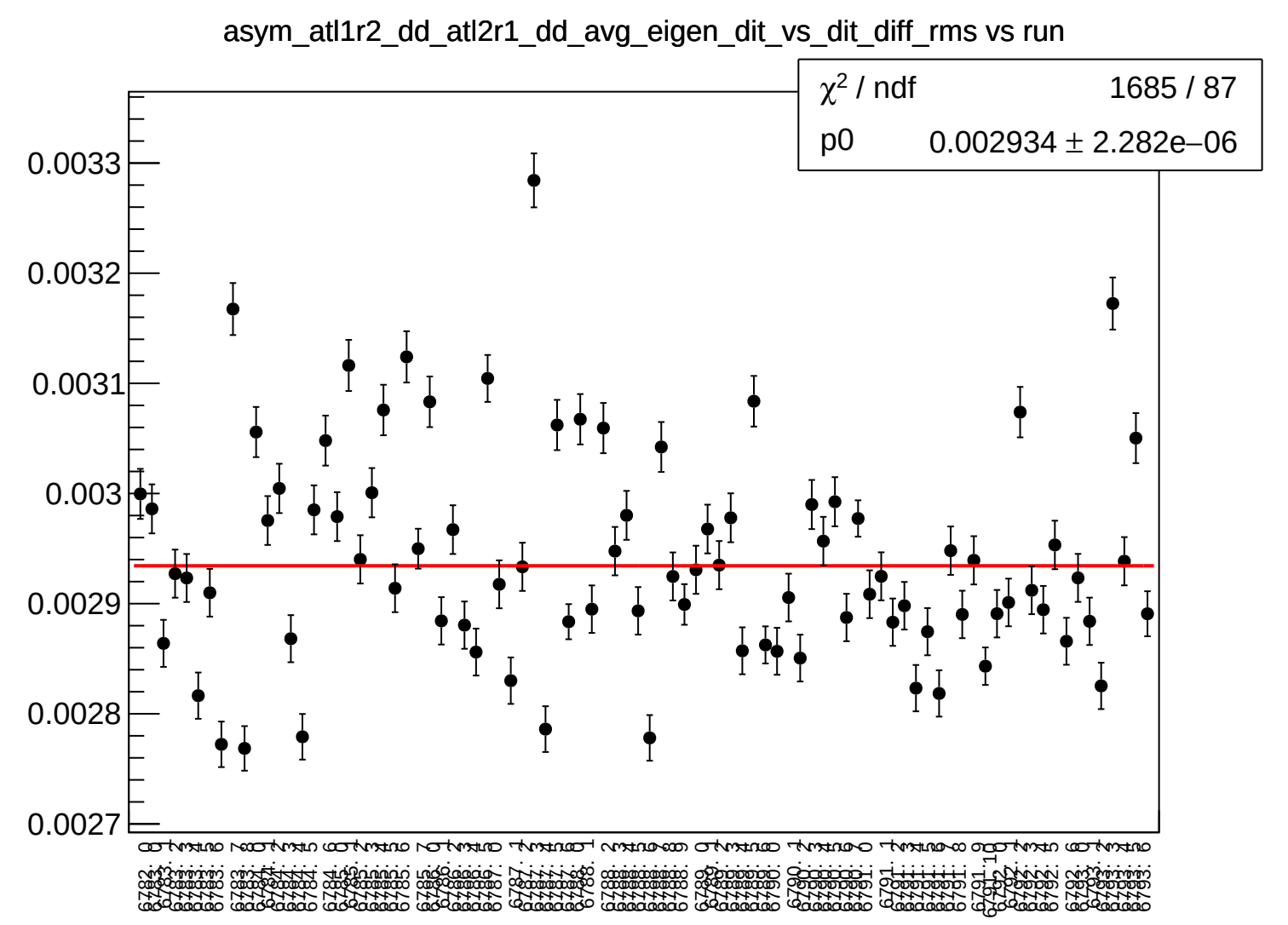

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1± 0.03663
pull
Entries 88
Mean −5.365
Std Dev 0

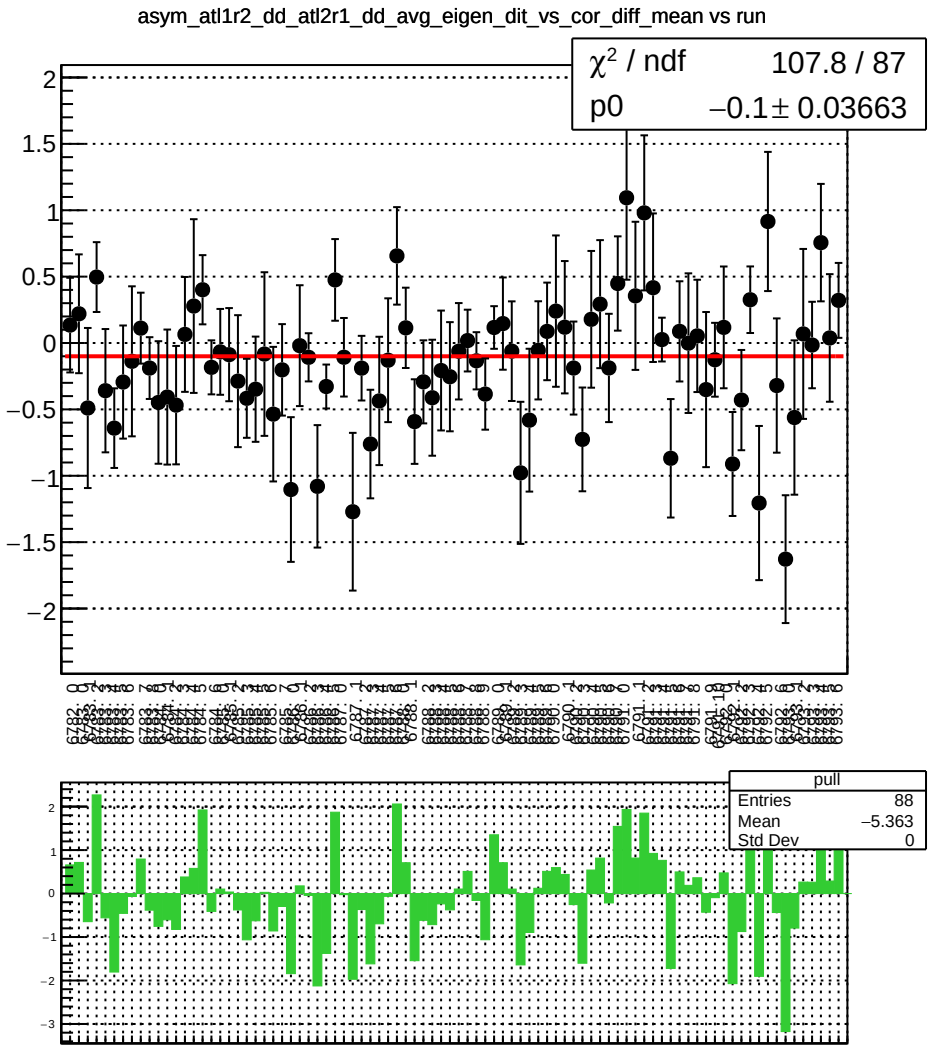

pull1D
Entries 88
Mean −0.06067
Std Dev 1.105

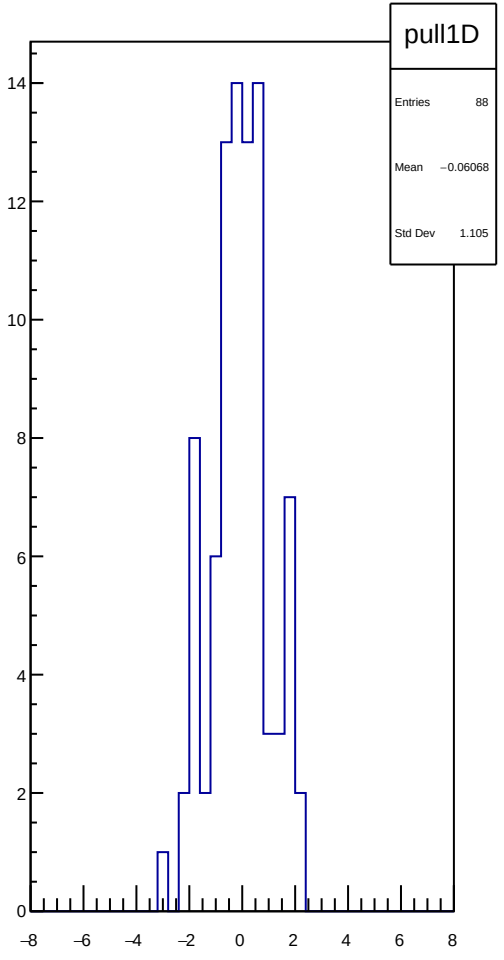

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 87
p0 31.12 ± 0.0259
60
50
40
30
20

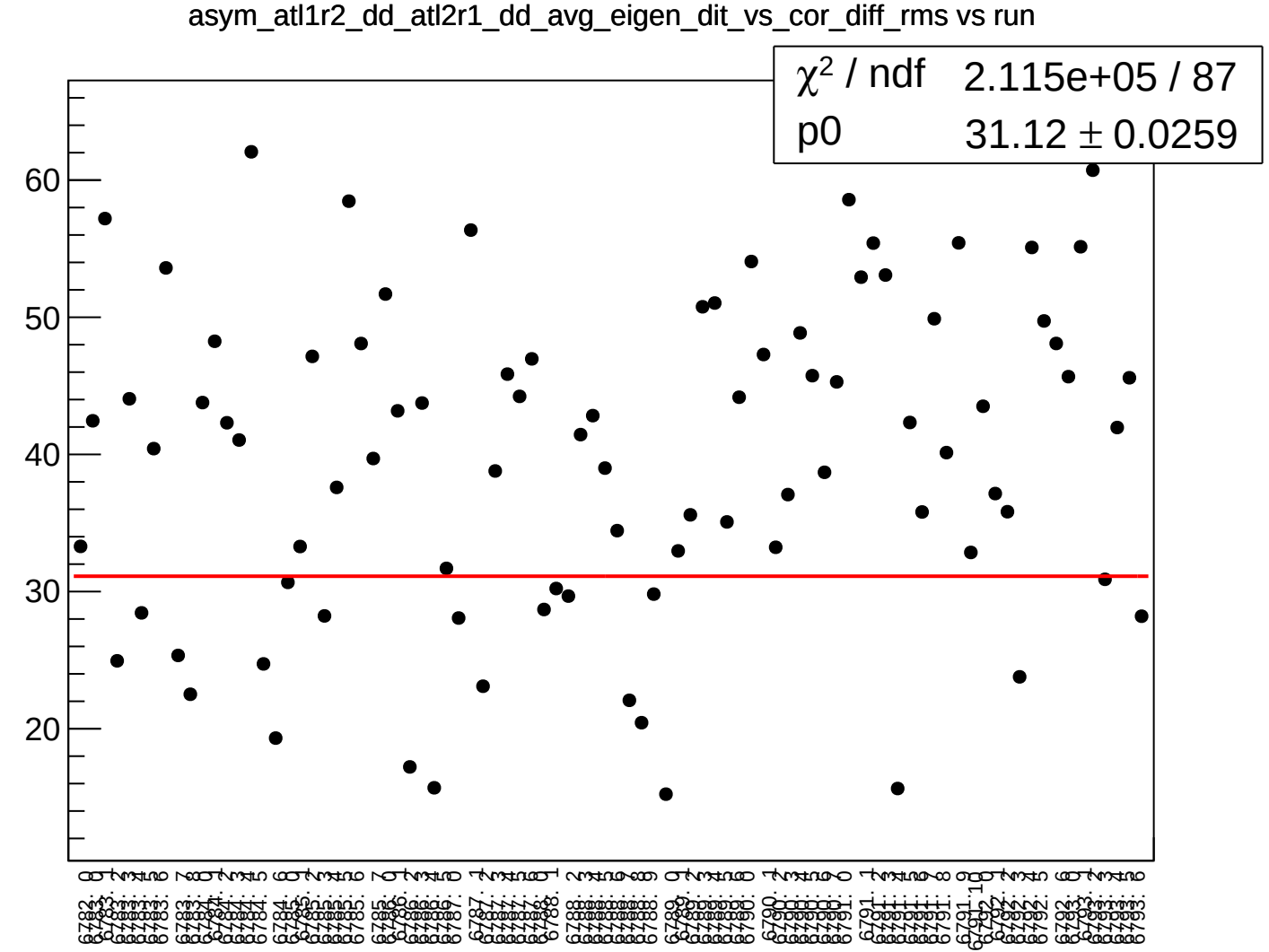

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 93.82 / 87
p0 2.464e−06 ± 3.228e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 64.3
Std Dev 0
2
1
0
−1
−2

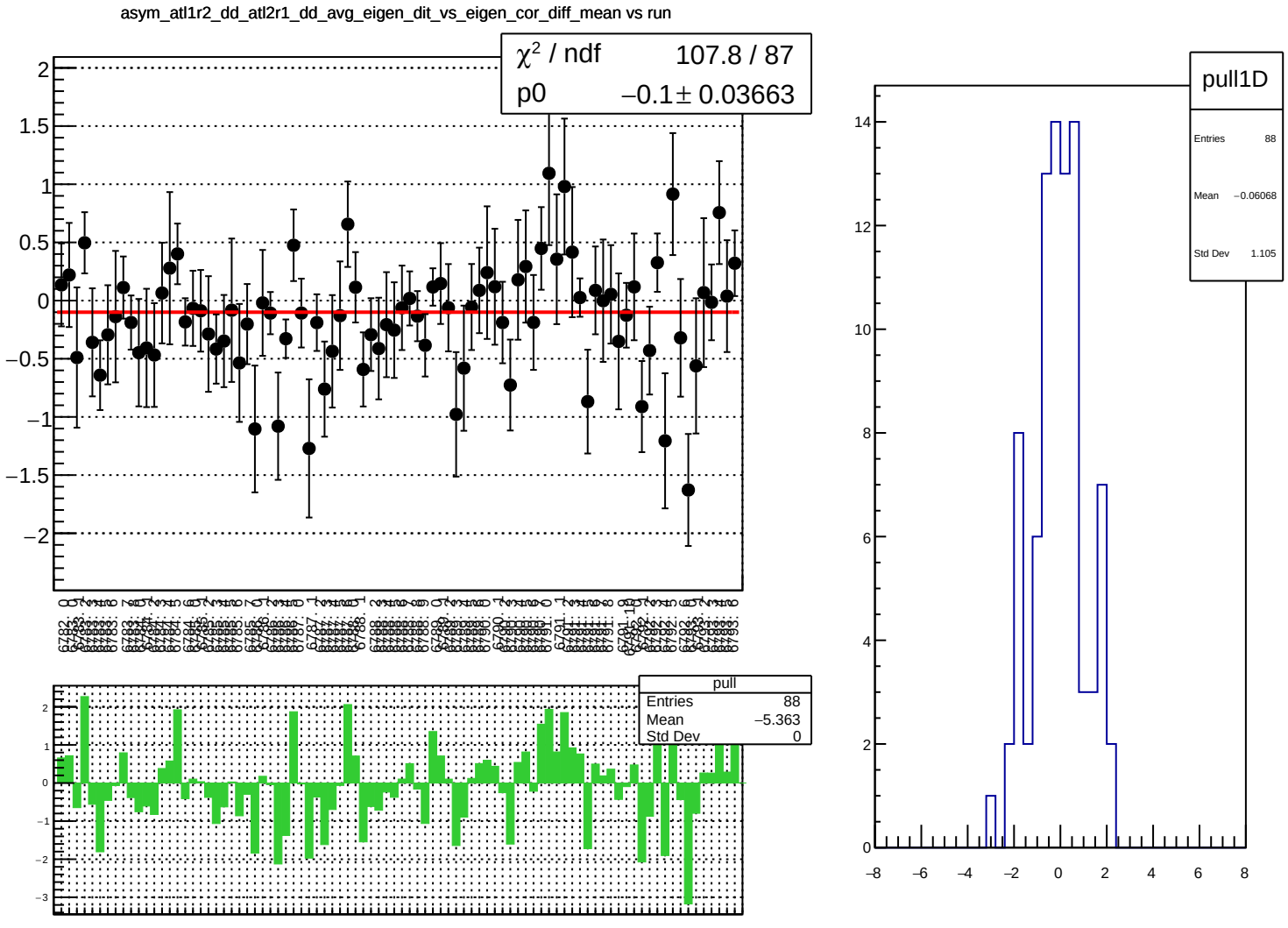

pull1D
Entries 88
Mean 0.007923
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1685 / 87
p0 0.002934 ± 2.282e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

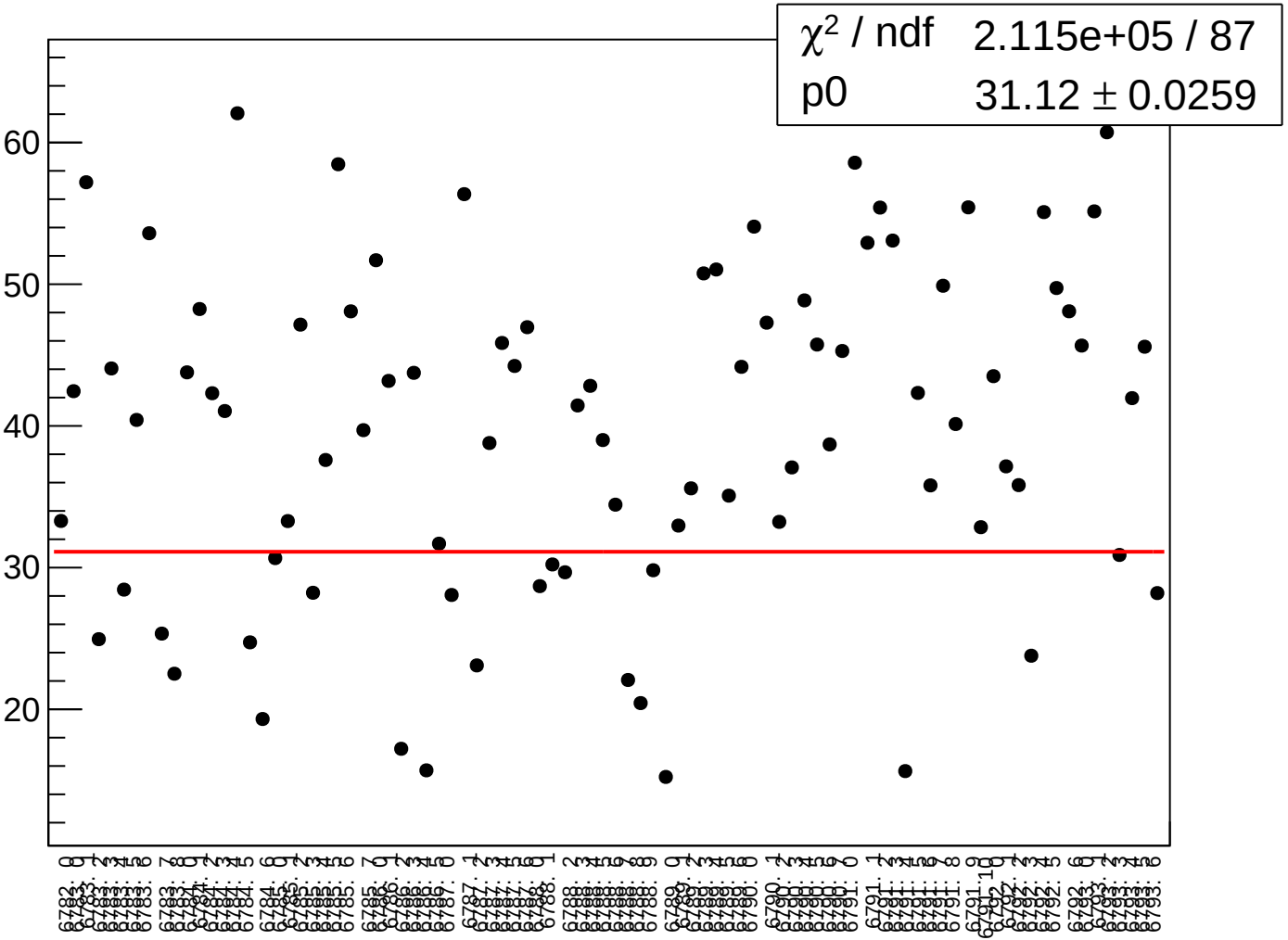

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1± 0.03663
pull
Entries 88
Mean −5.363
Std Dev 0

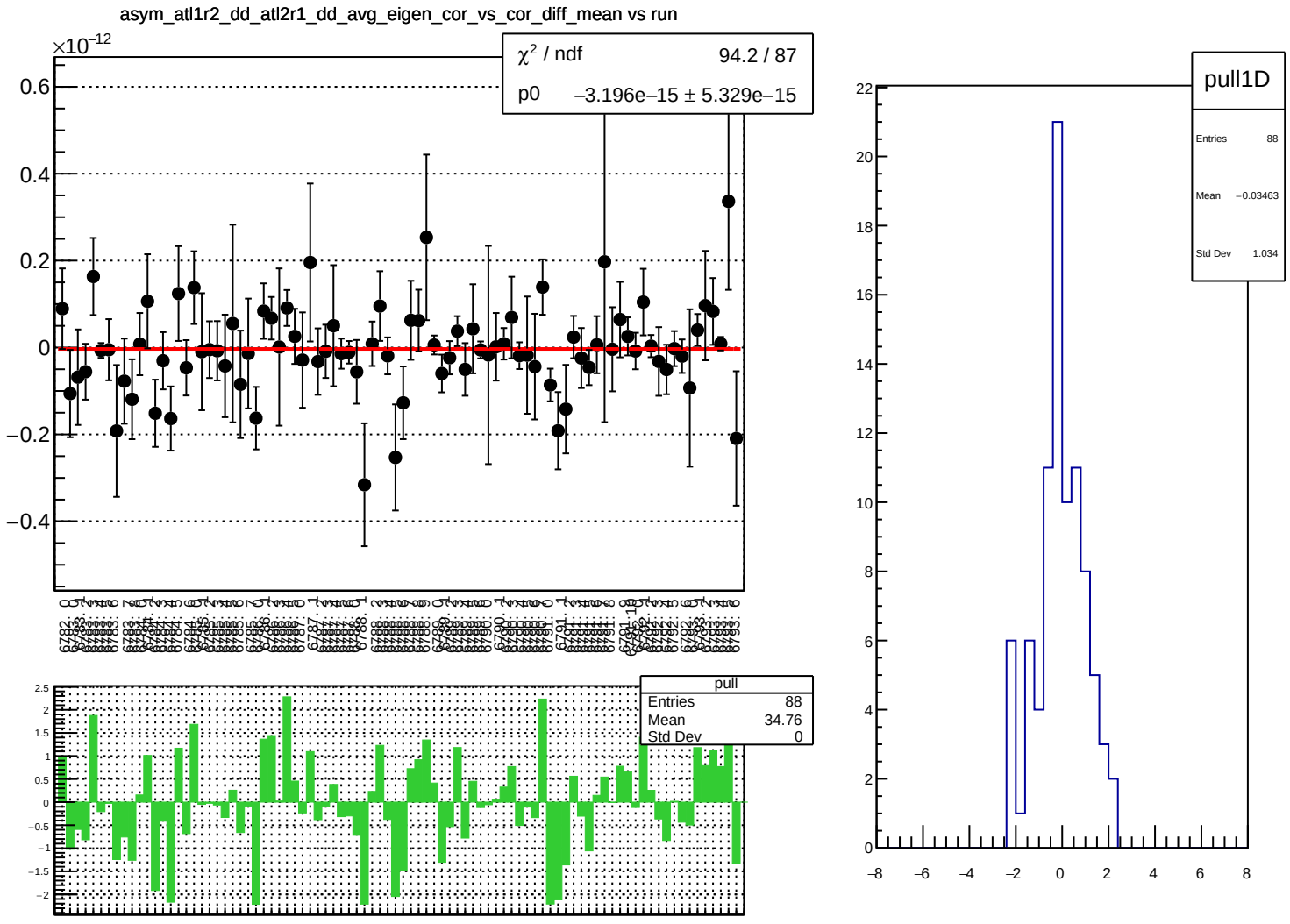

pull1D
Entries 88
Mean −0.06068
Std Dev 1.105

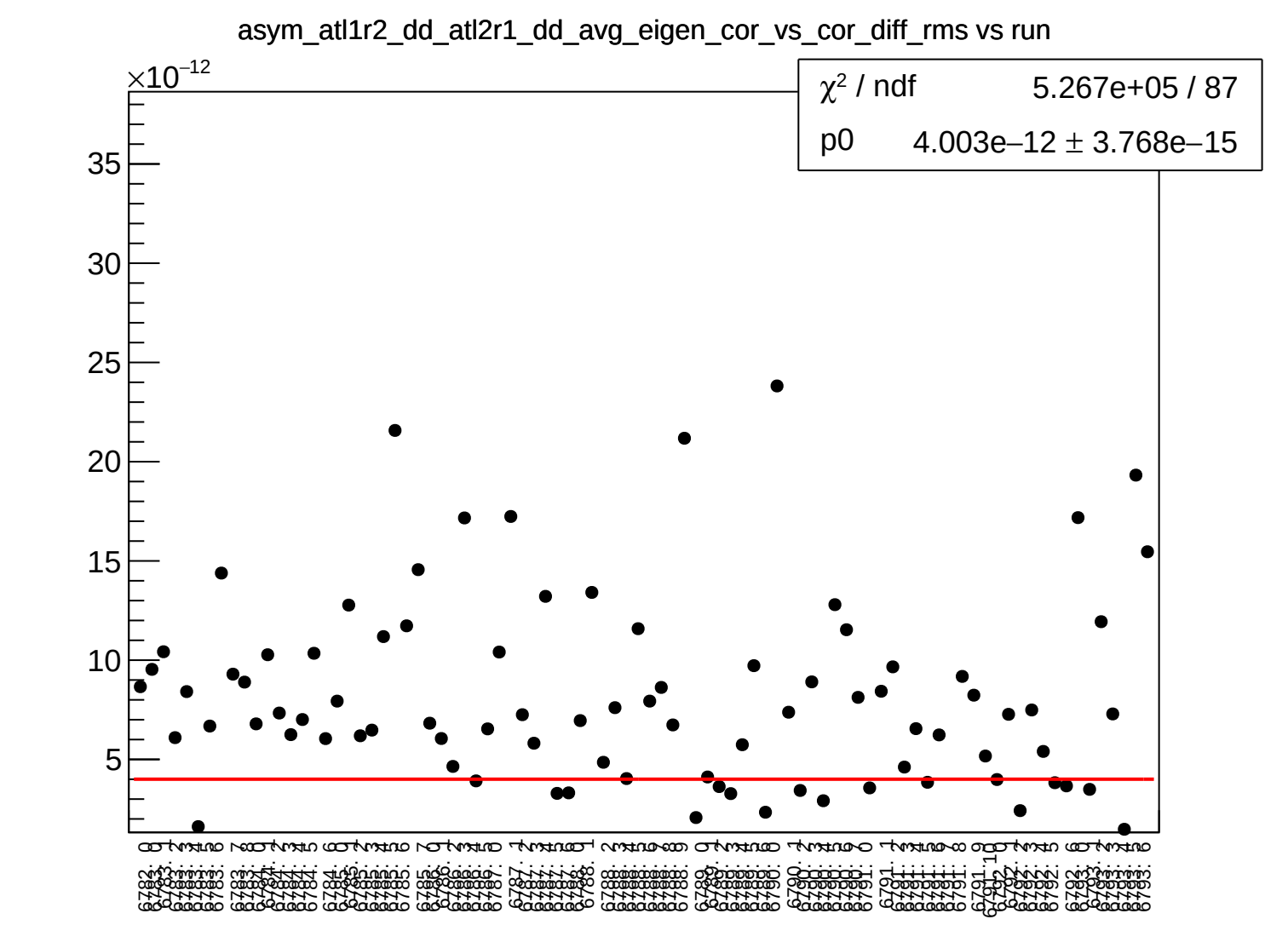

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.115e+05 / 87
p0 31.12 ± 0.0259
60
50
40
30
20

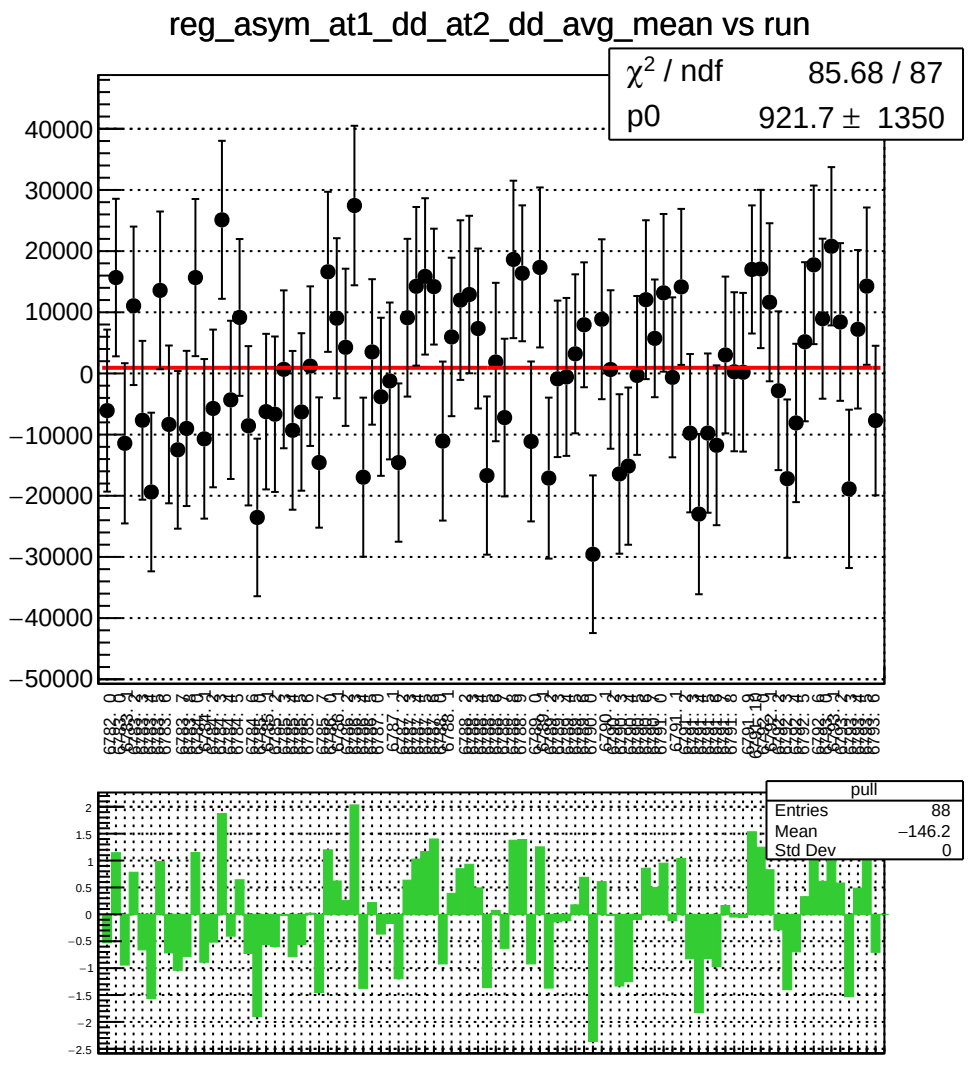

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −0.1± 0.03663
pull
Entries 88
Mean −5.363
Std Dev 0
pull1D
Entries 88
Mean −0.06068
Std Dev 1.105

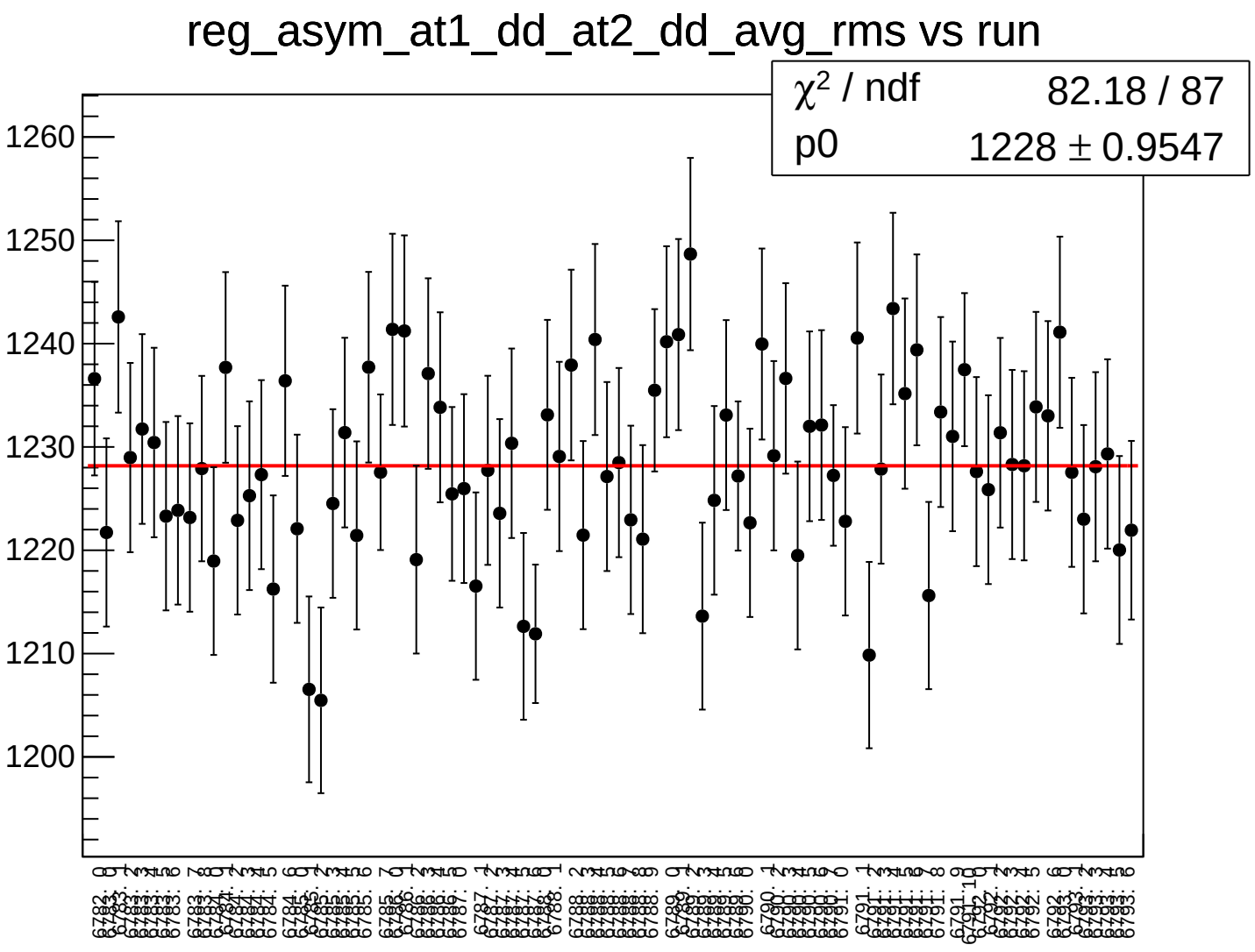
asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run

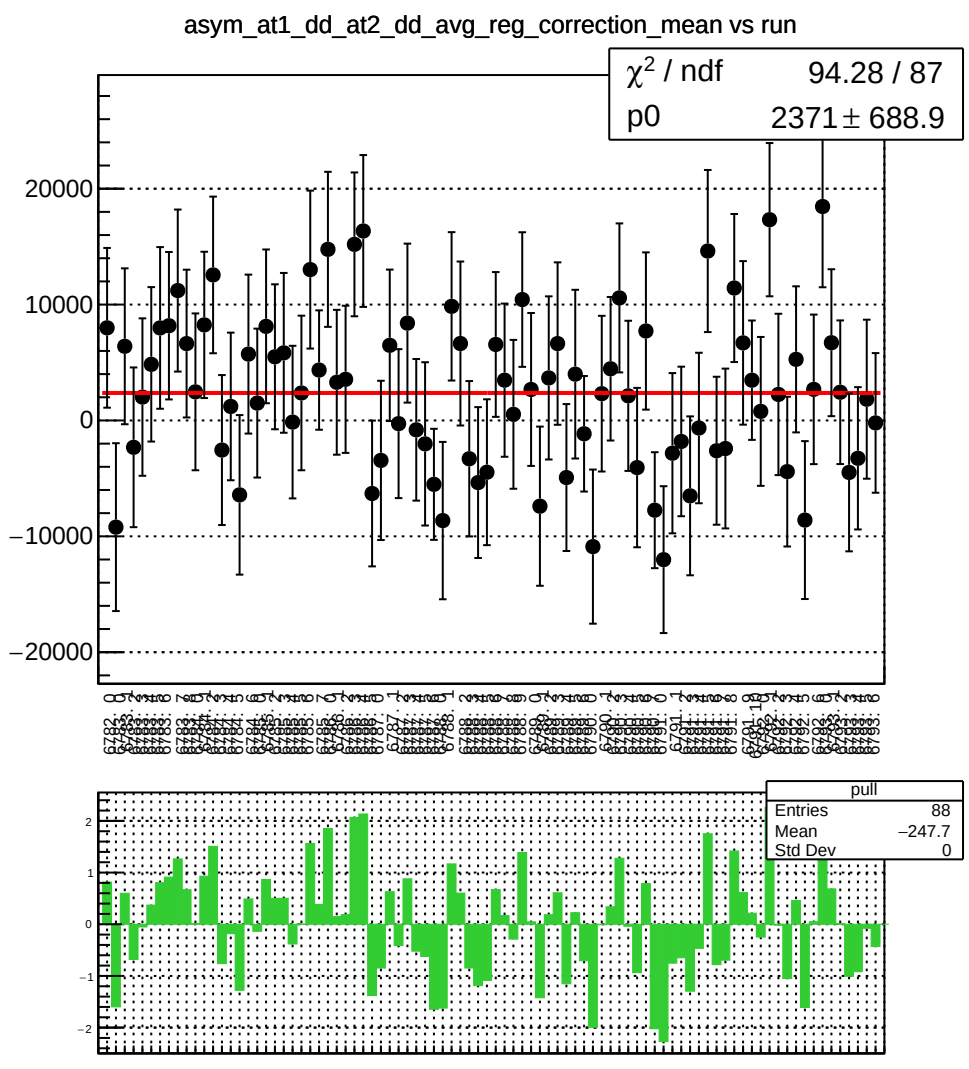


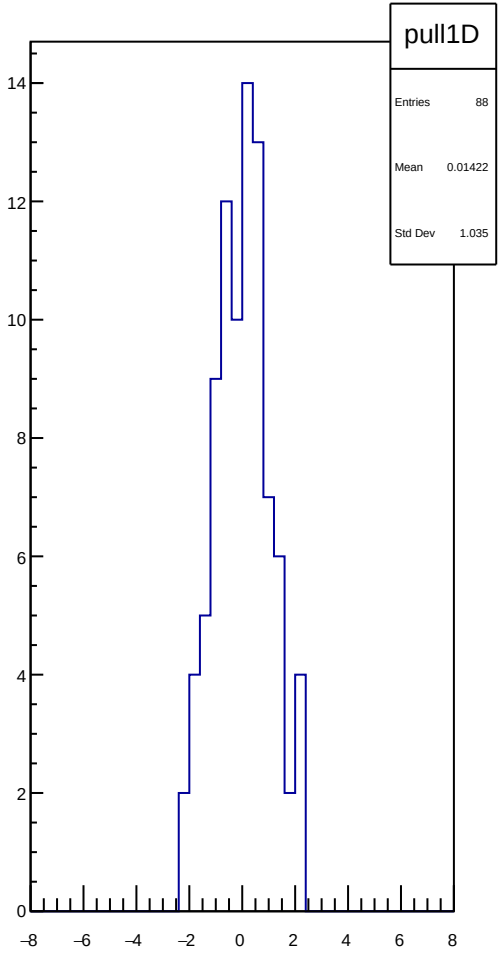

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.2 / 87
p0 −3.196e−15 ± 5.329e−15
pull
Entries 88
Mean −34.76
Std Dev 0
pull1D
Entries 88
Mean −0.03463
Std Dev 1.034

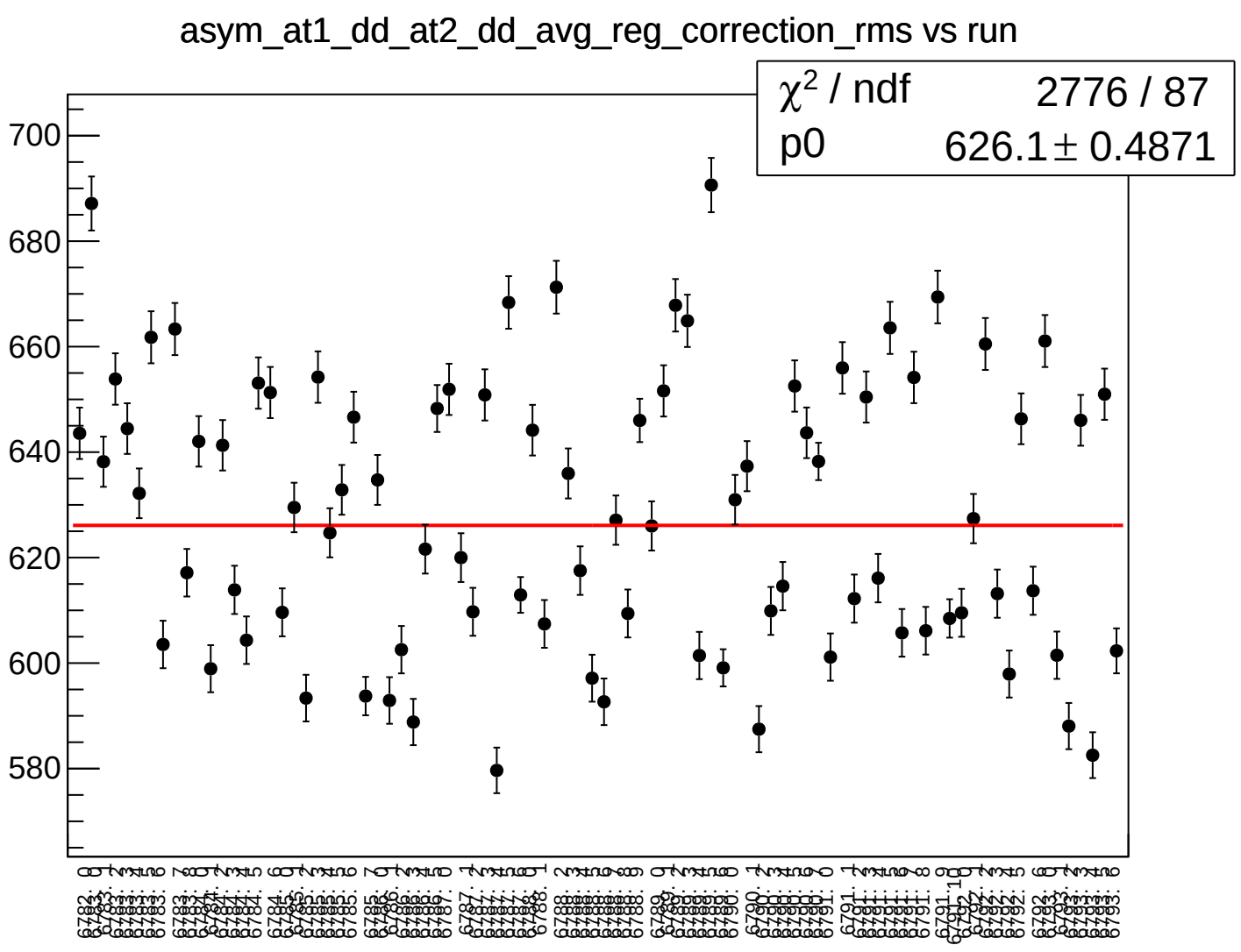

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.267e+05 / 87
p0 4.003e−12 ± 3.768e−15
35
30
25
20
15
10
5

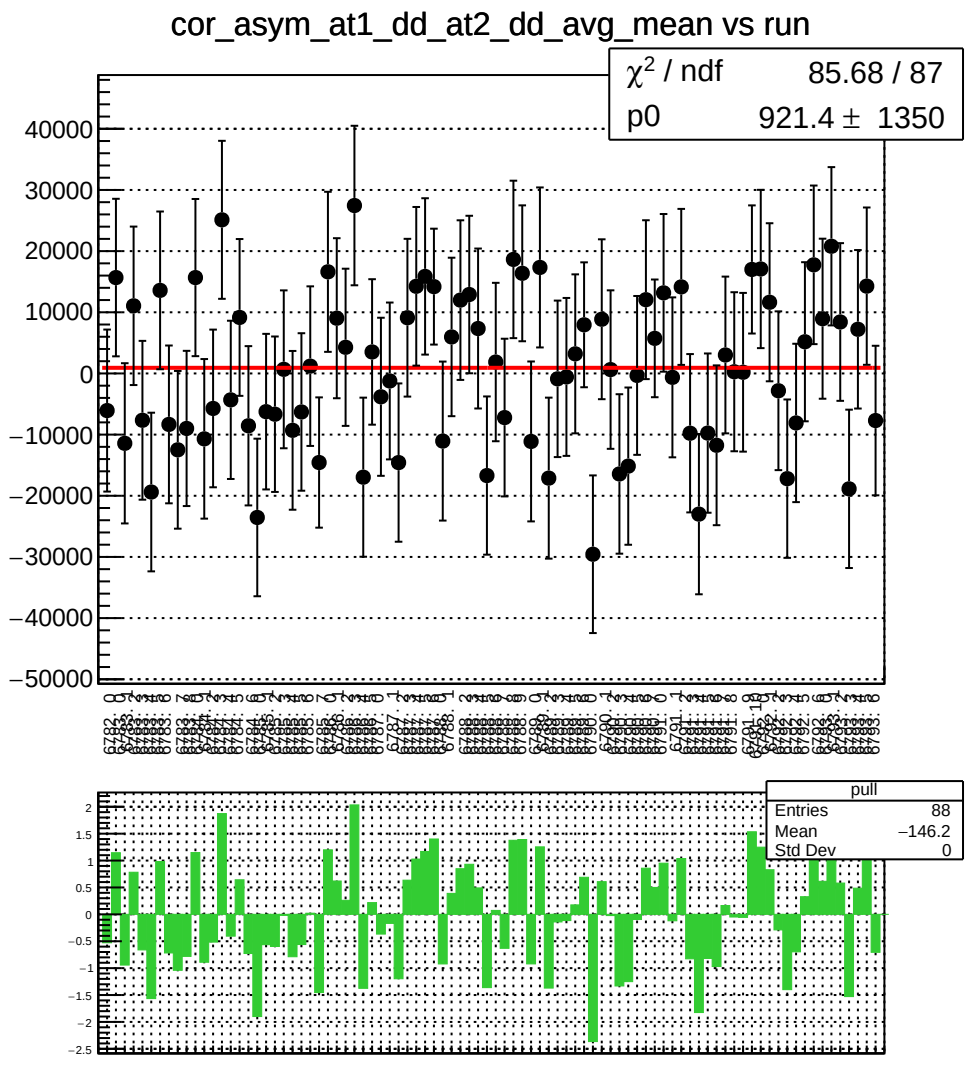

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.68 / 87
p0 921.7 ± 1350
pull
Entries 88
Mean −146.2
Std Dev 0
pull1D
Entries 88
Mean −0.01346
Std Dev 0.9866

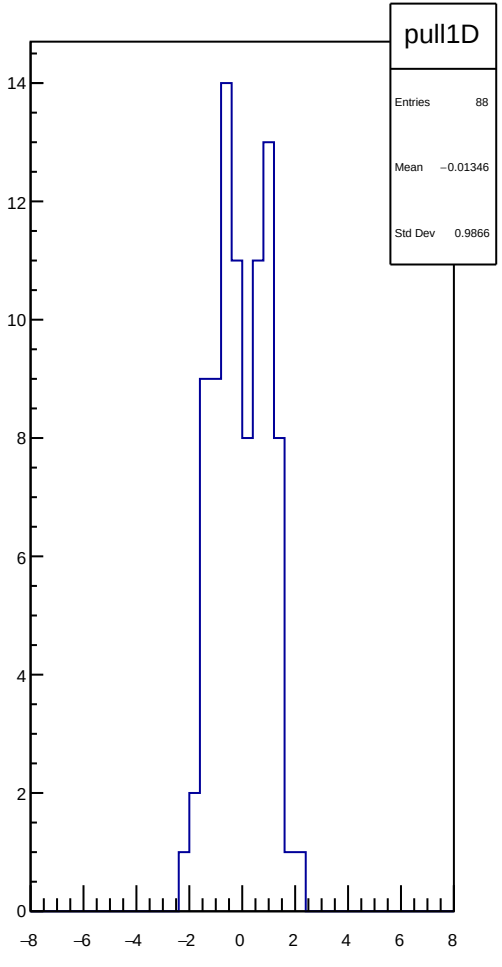

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 82.18 / 87
p0 1228 ± 0.9547
1260
1250
1240
1230
1220
1210
1200

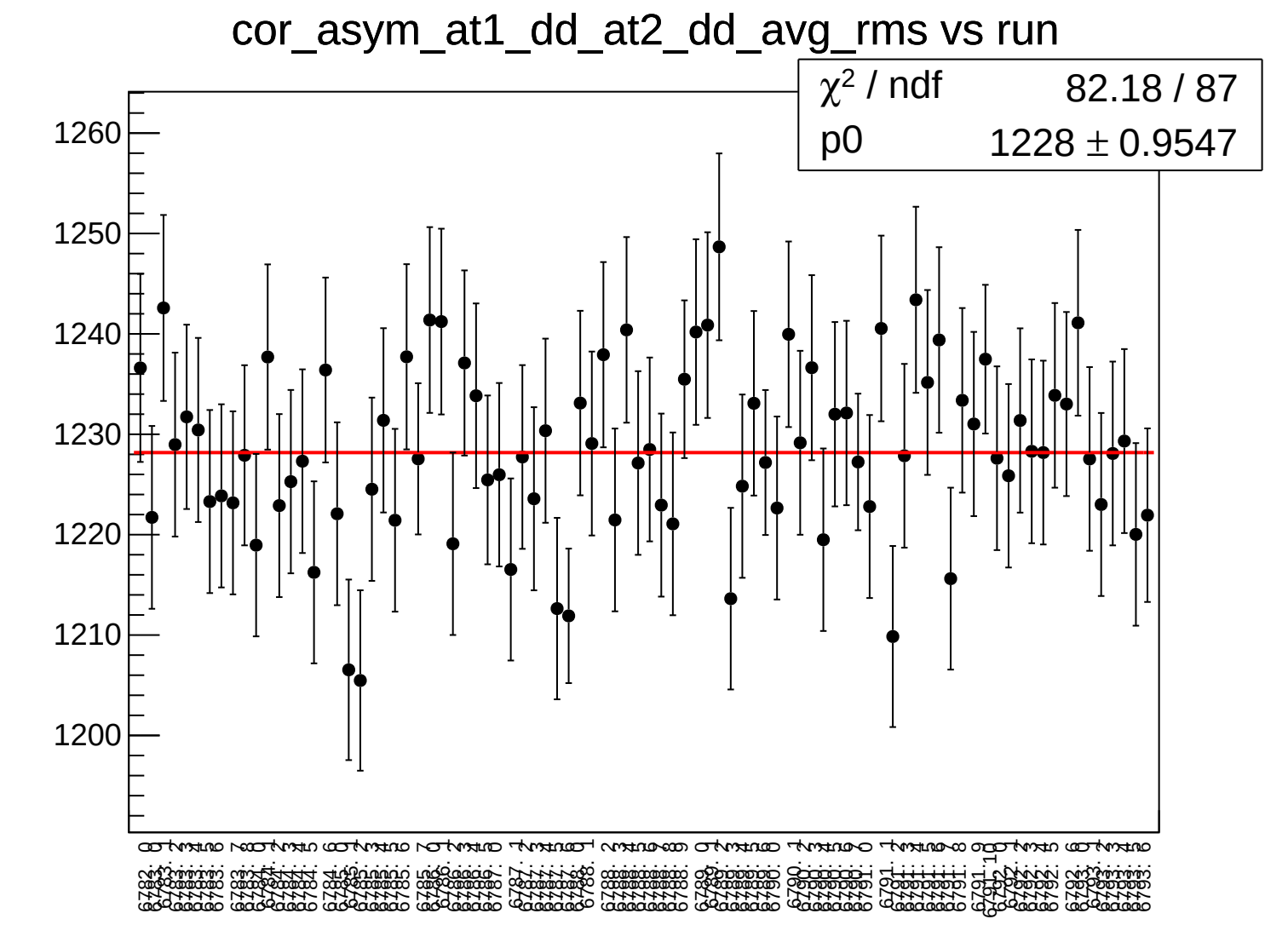

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 94.28 / 87
p0 2371 ± 688.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −247.7
Std Dev 0
2
1
0
−1
−2

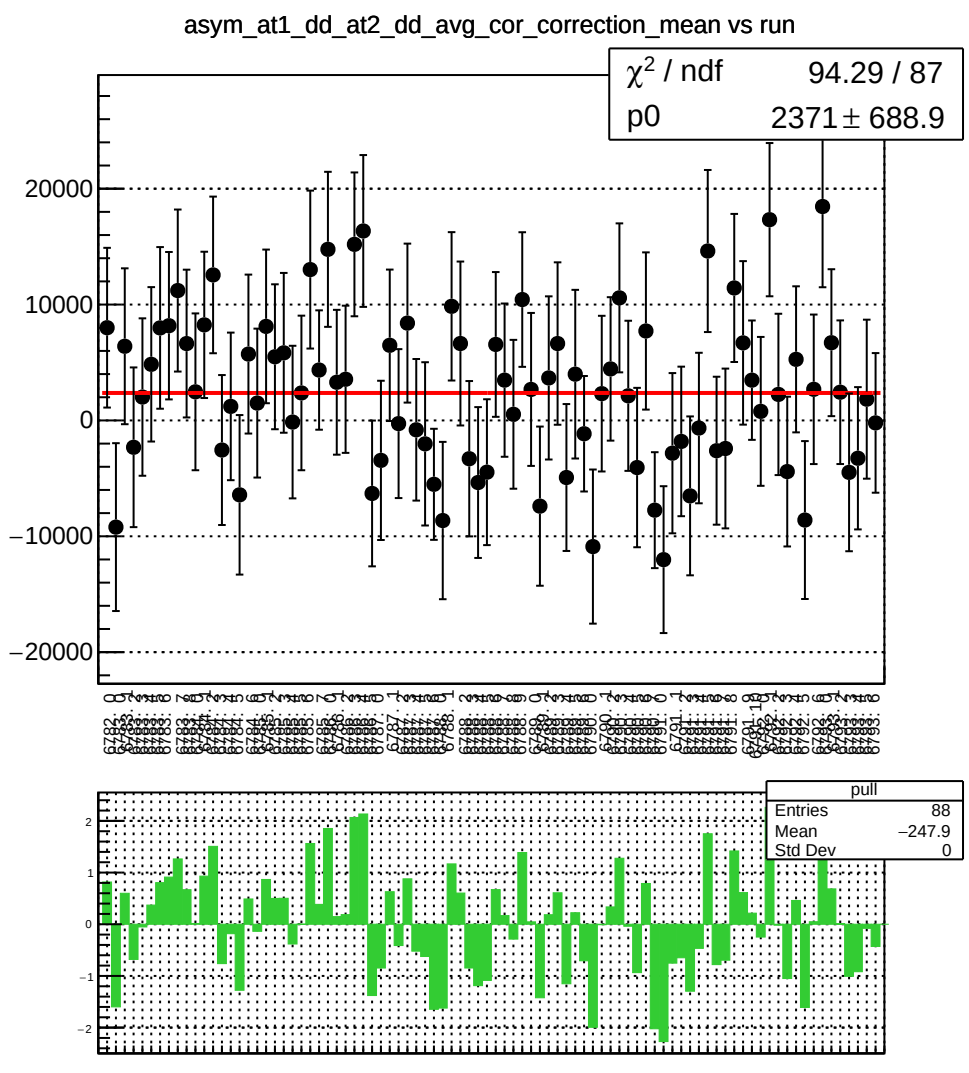

pull1D
Entries 88
Mean 0.01422
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

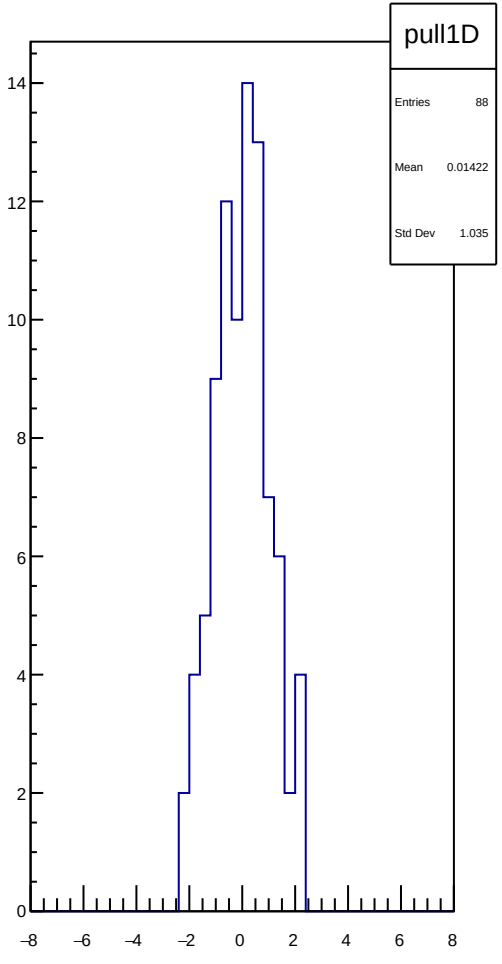

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2776 / 87
p0 626.1 ± 0.4871
700
680
660
640
620
600
580

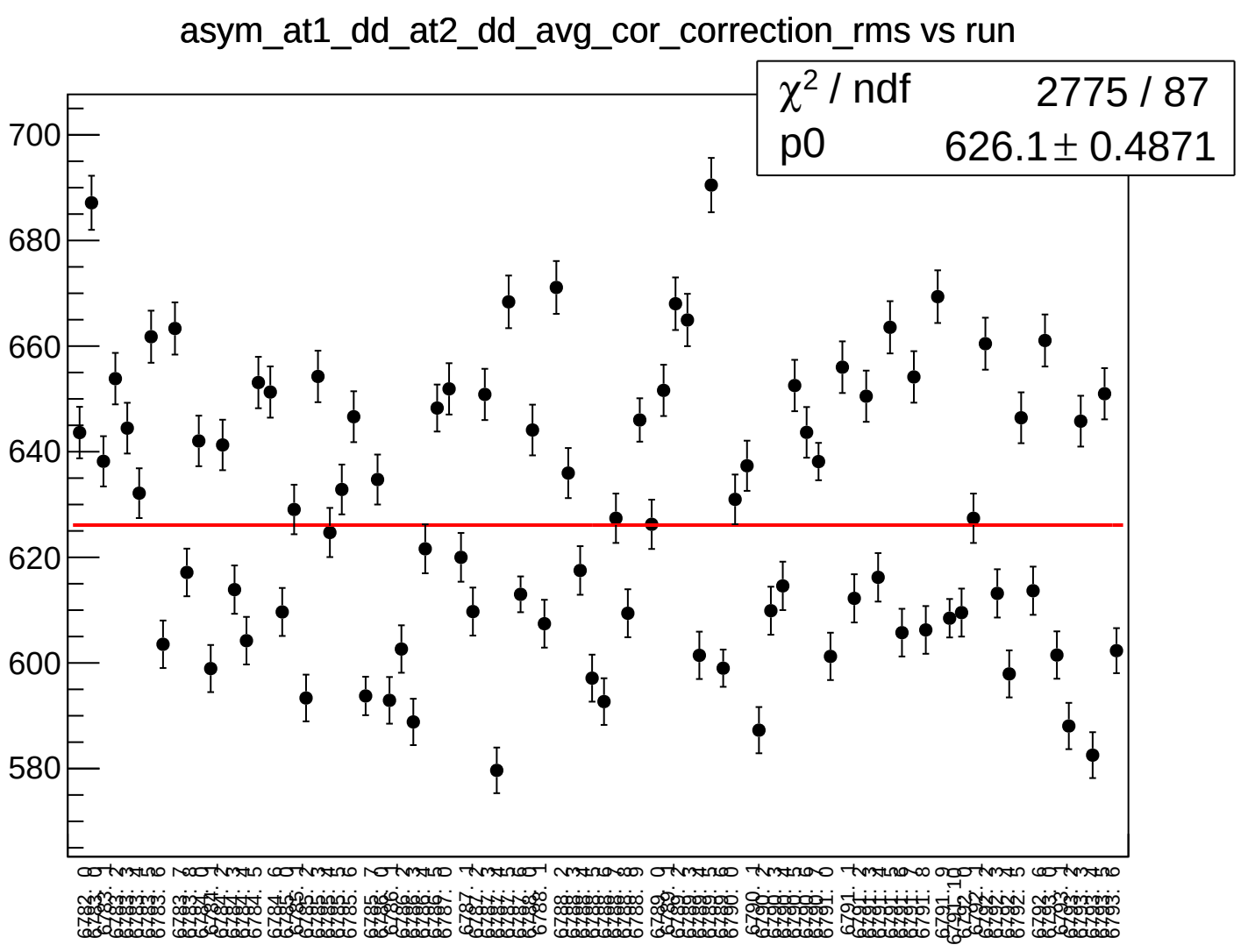

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.68 / 87
p0 921.4 ± 1350
pull
Entries 88
Mean −146.2
Std Dev 0

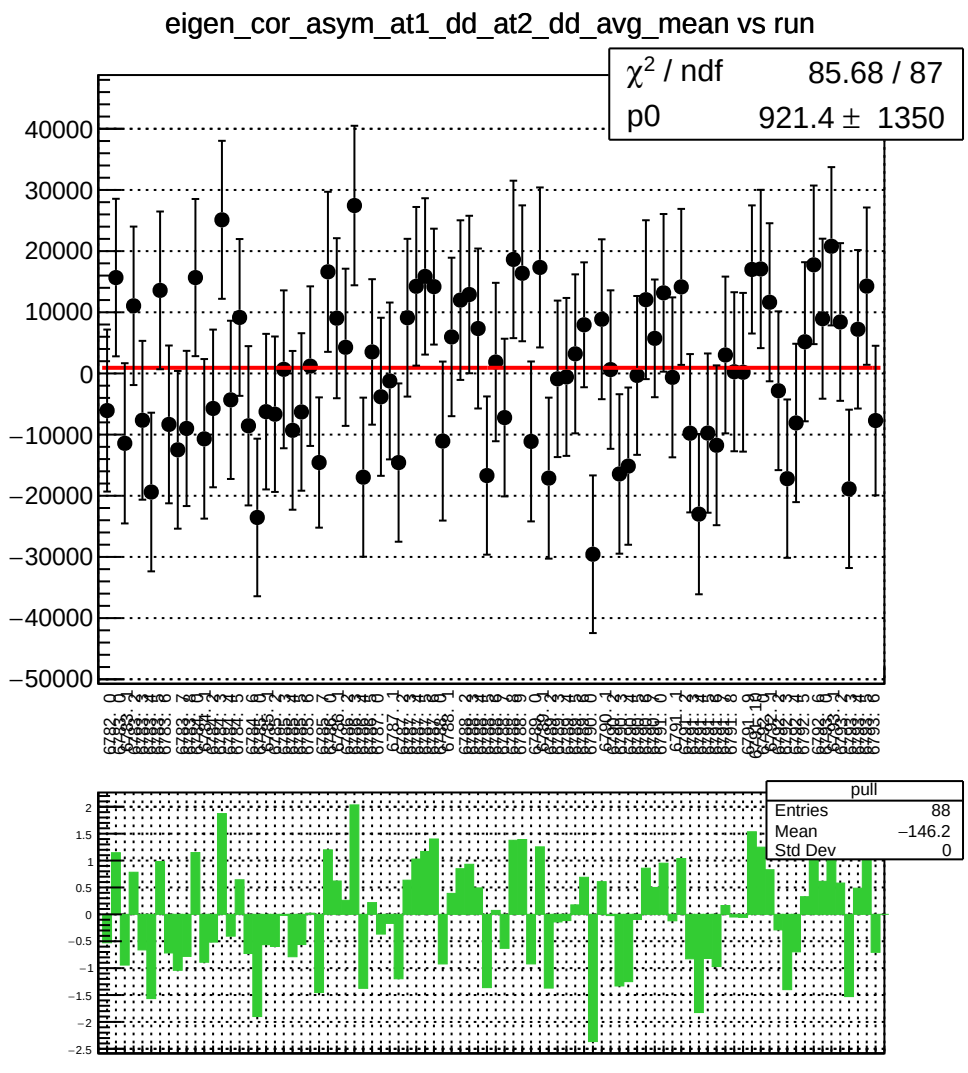

pull1D
Entries 88
Mean −0.01346
Std Dev 0.9866

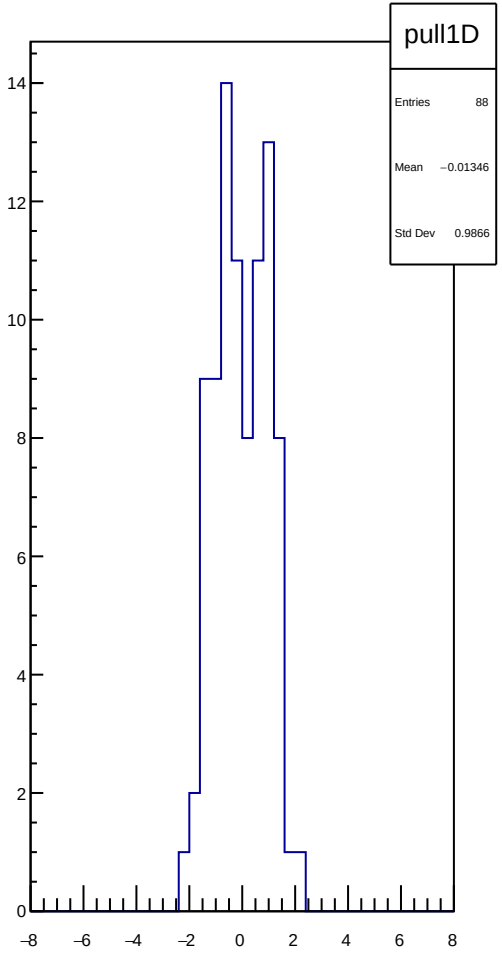

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 82.18 / 87
p0 1228 ± 0.9547
1260
1250
1240
1230
1220
1210
1200

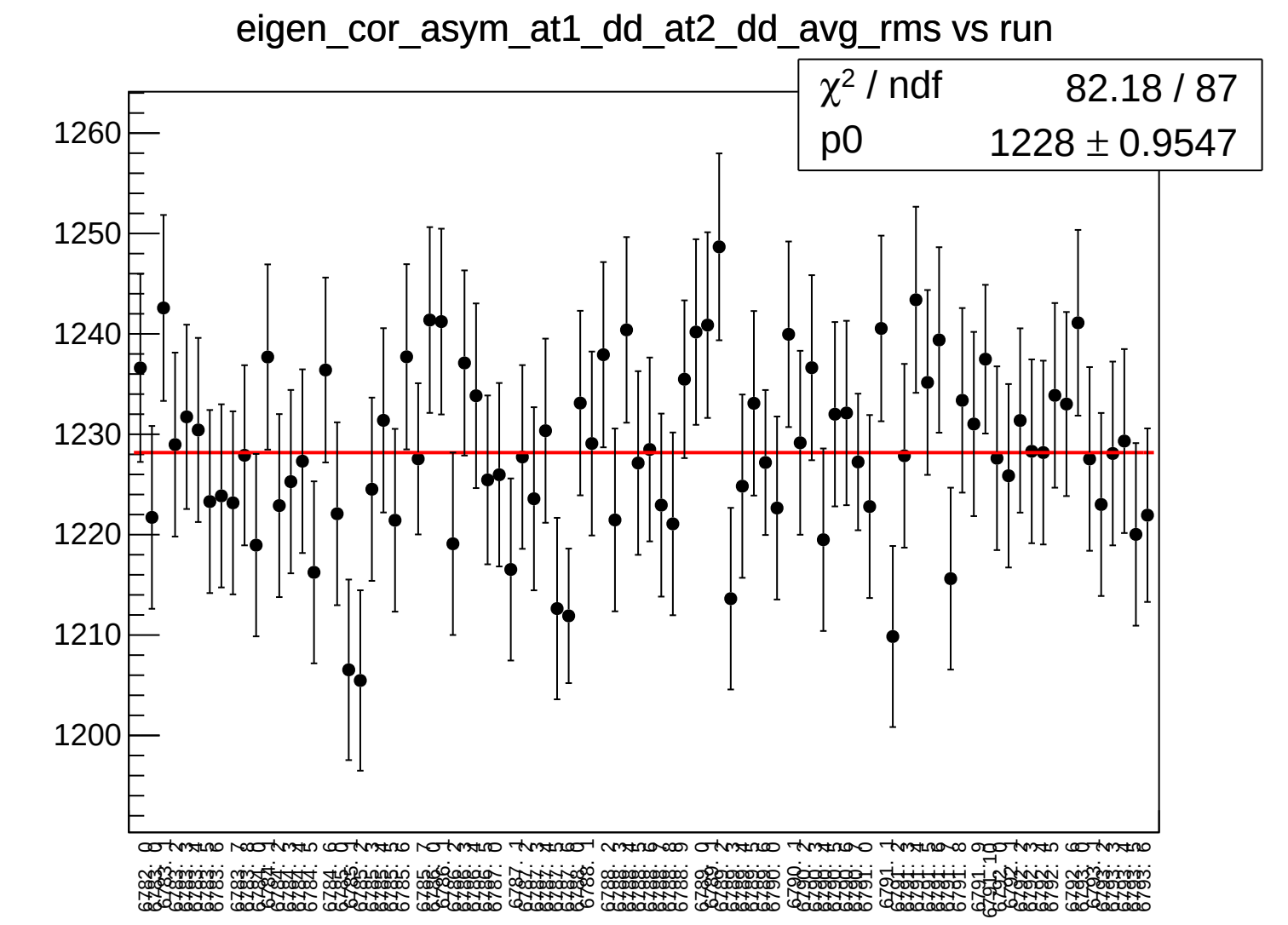

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 94.29 / 87
p0 2371 ± 688.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −247.9
Std Dev 0
2
1
0
−1
−2

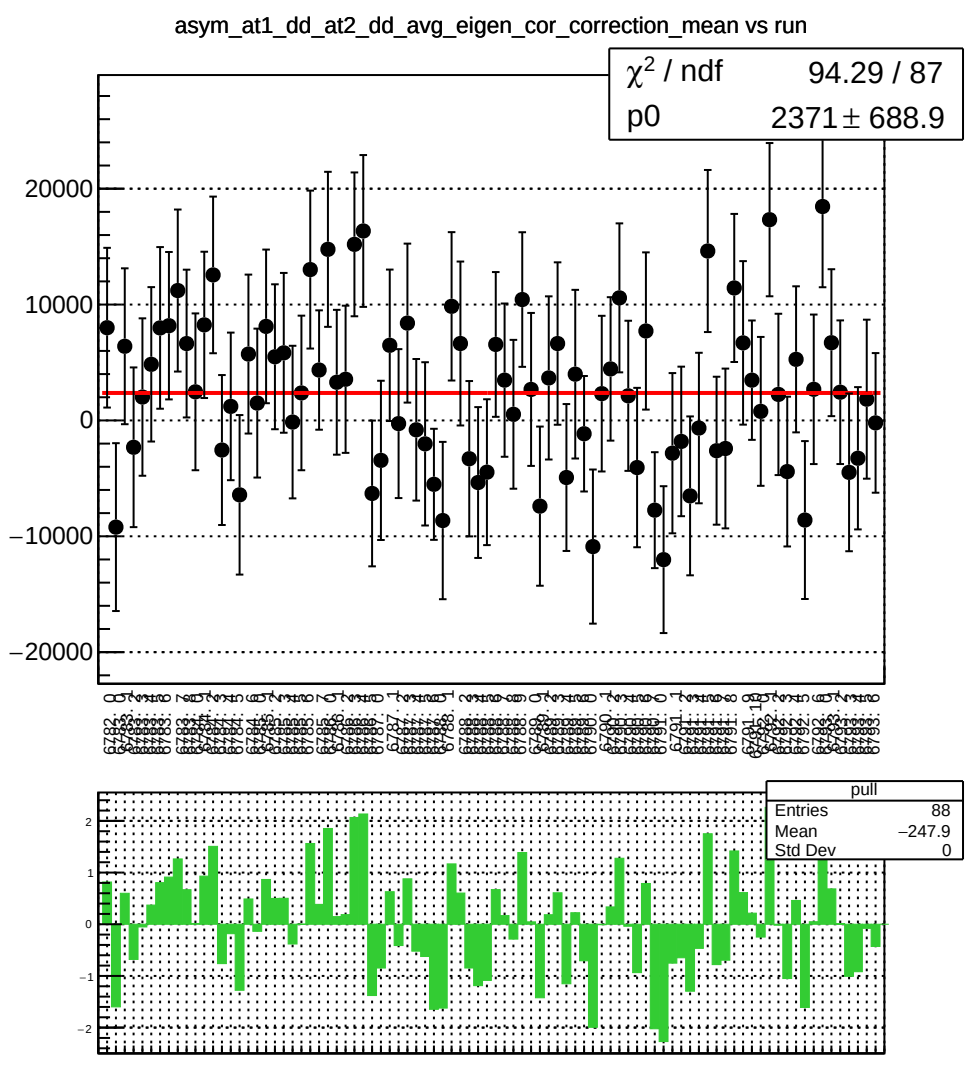

pull1D
Entries 88
Mean 0.01422
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

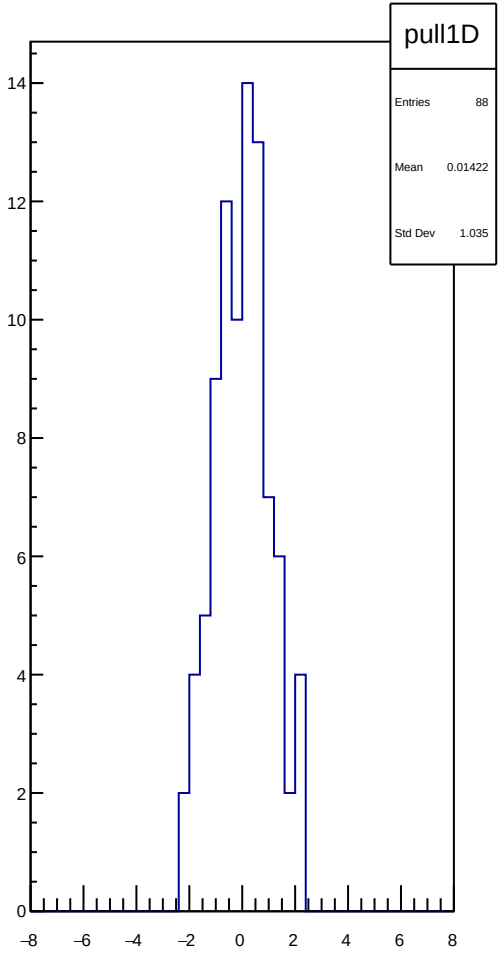

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2775 / 87
p0 626.1 ± 0.4871
700
680
660
640
620
600
580

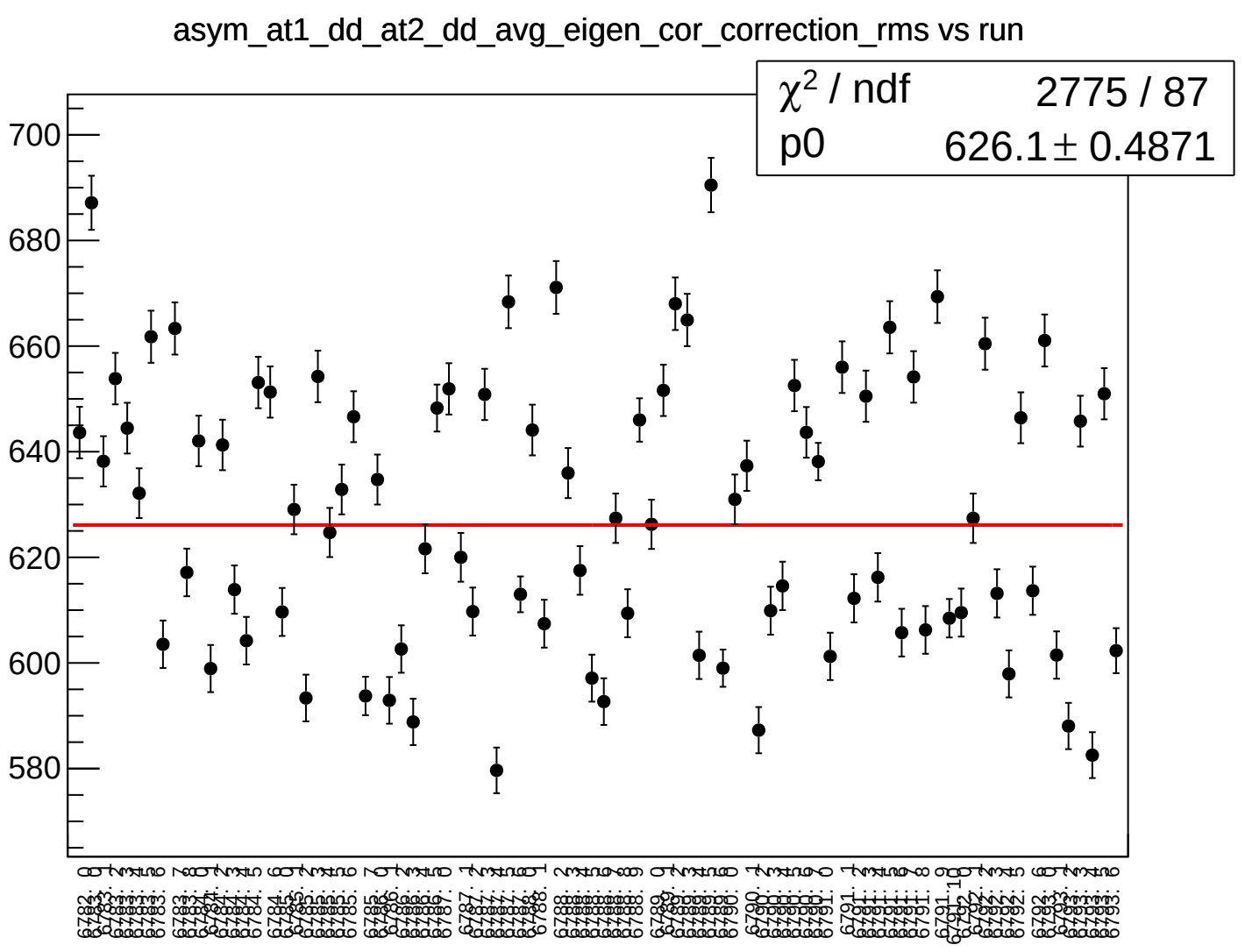

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.68 / 87
p0 921.4 ± 1350
pull
Entries 88
Mean −146.2
Std Dev 0

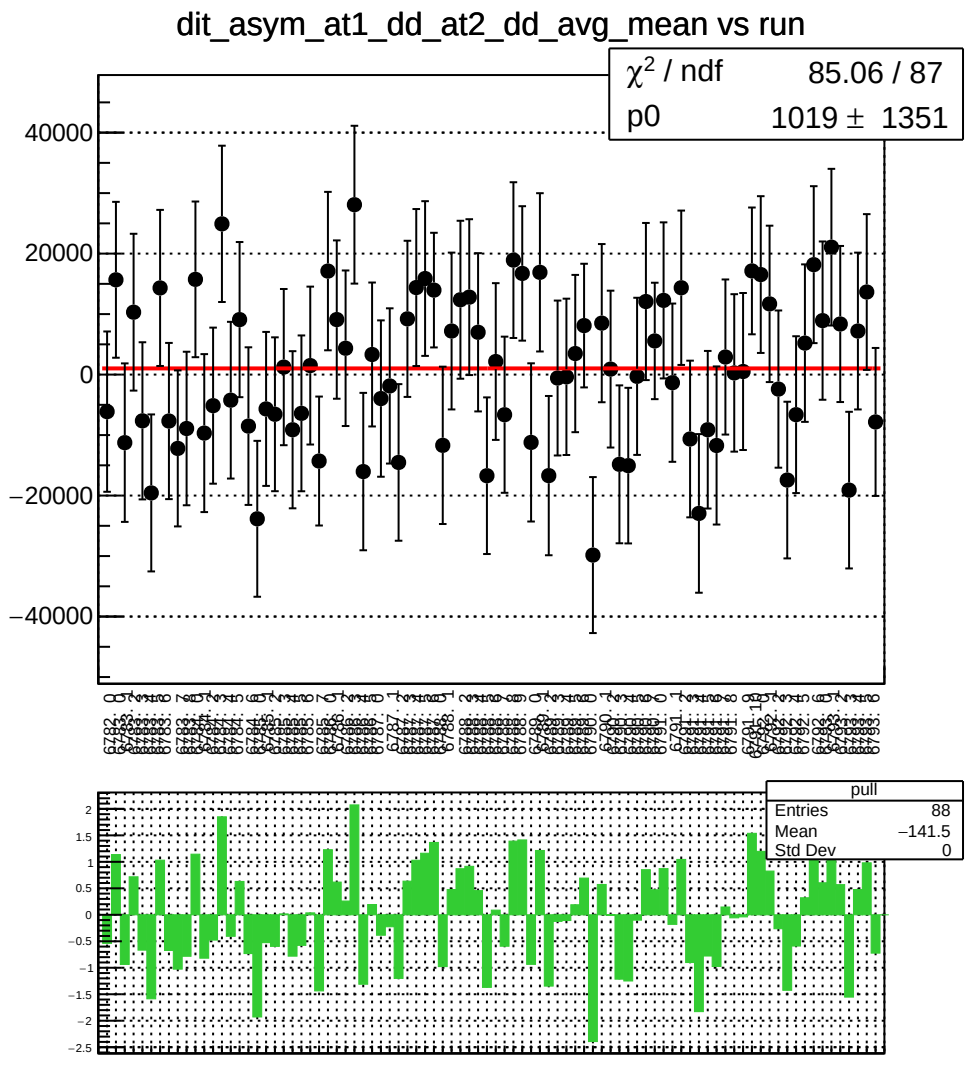

pull1D
Entries 88
Mean −0.01346
Std Dev 0.9866

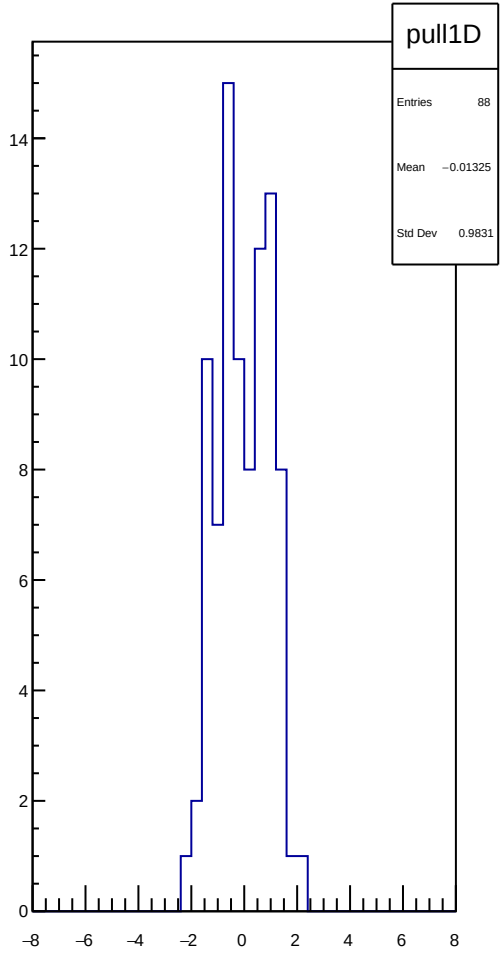

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 82.18 / 87
p0 1228 ± 0.9547
1260
1250
1240
1230
1220
1210
1200

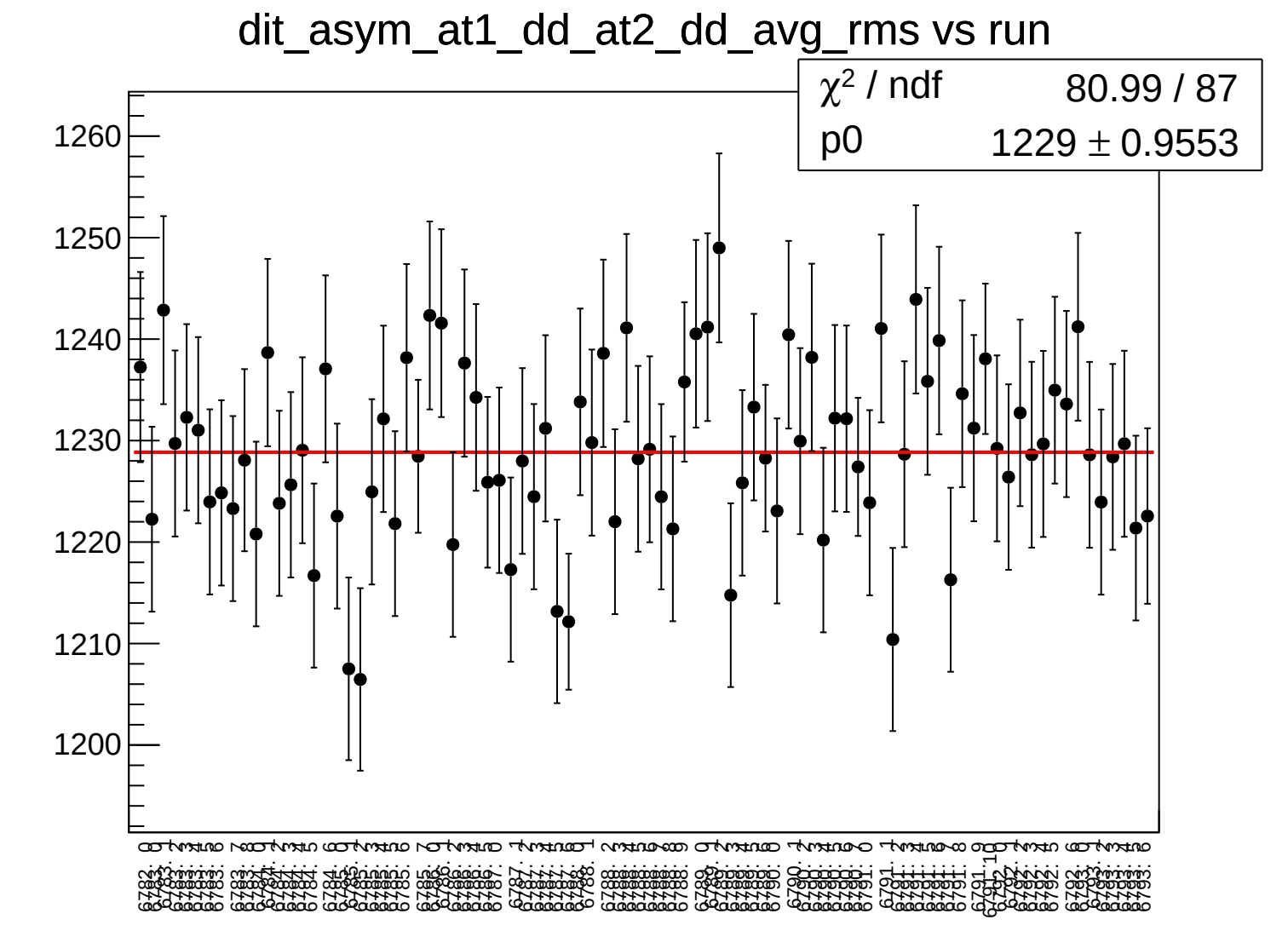

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.29 / 87
p0 2371 ± 688.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −247.9
Std Dev 0
2
1
0
−1
−2

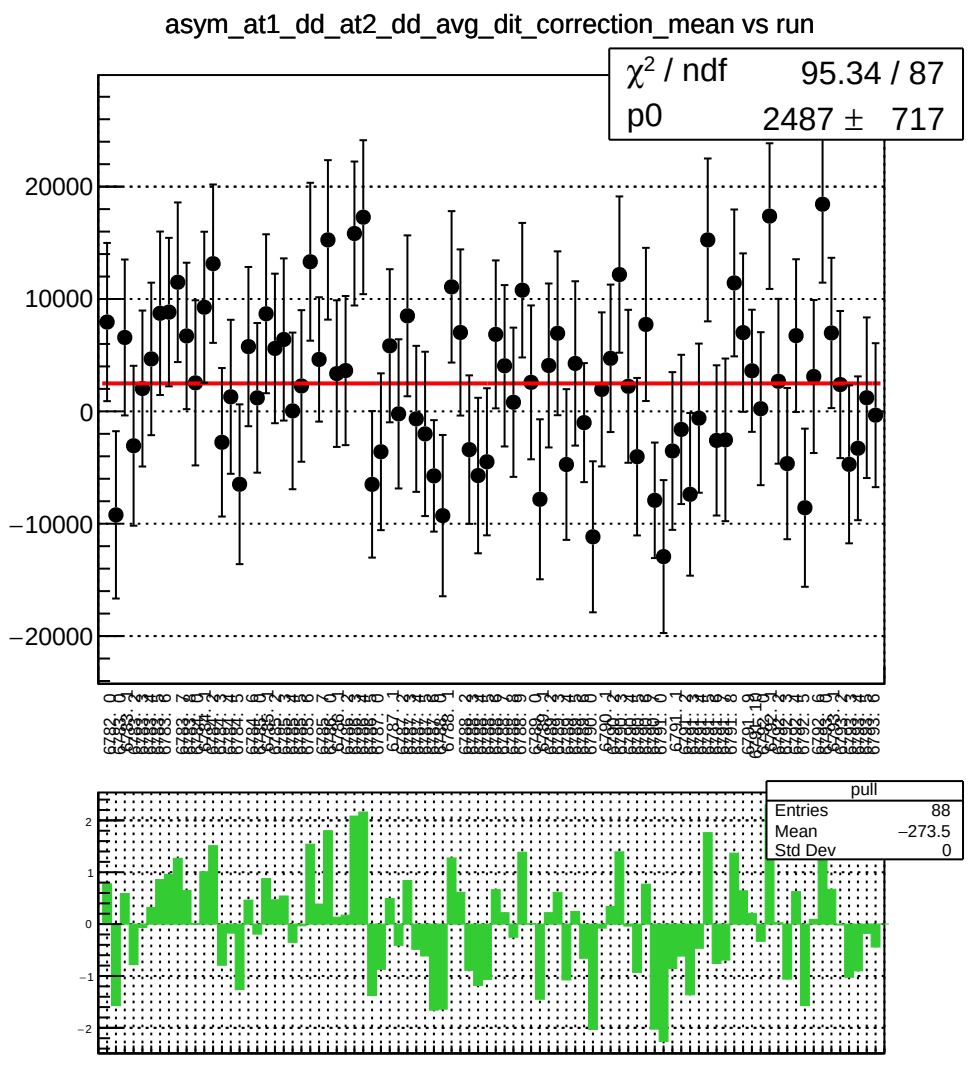

pull1D
Entries 88
Mean 0.01422
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

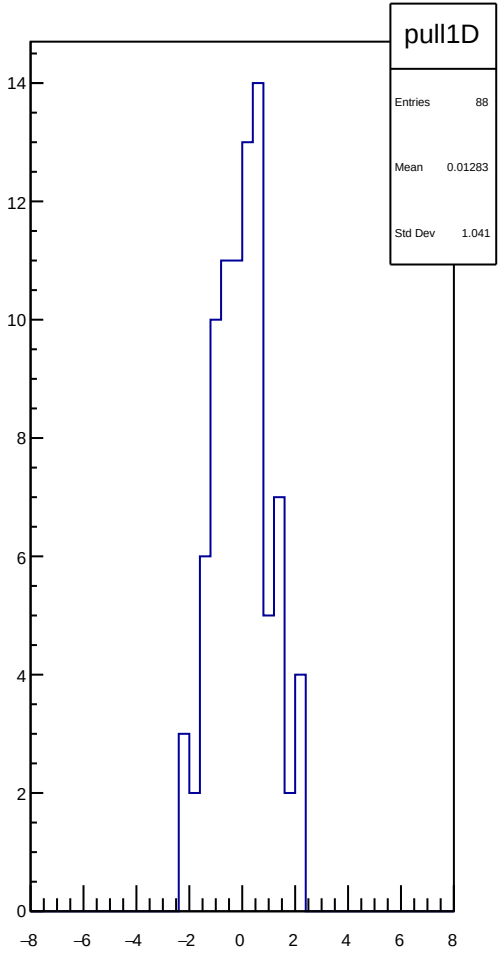

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2775 / 87
p0 626.1 ± 0.4871
700
680
660
640
620
600
580

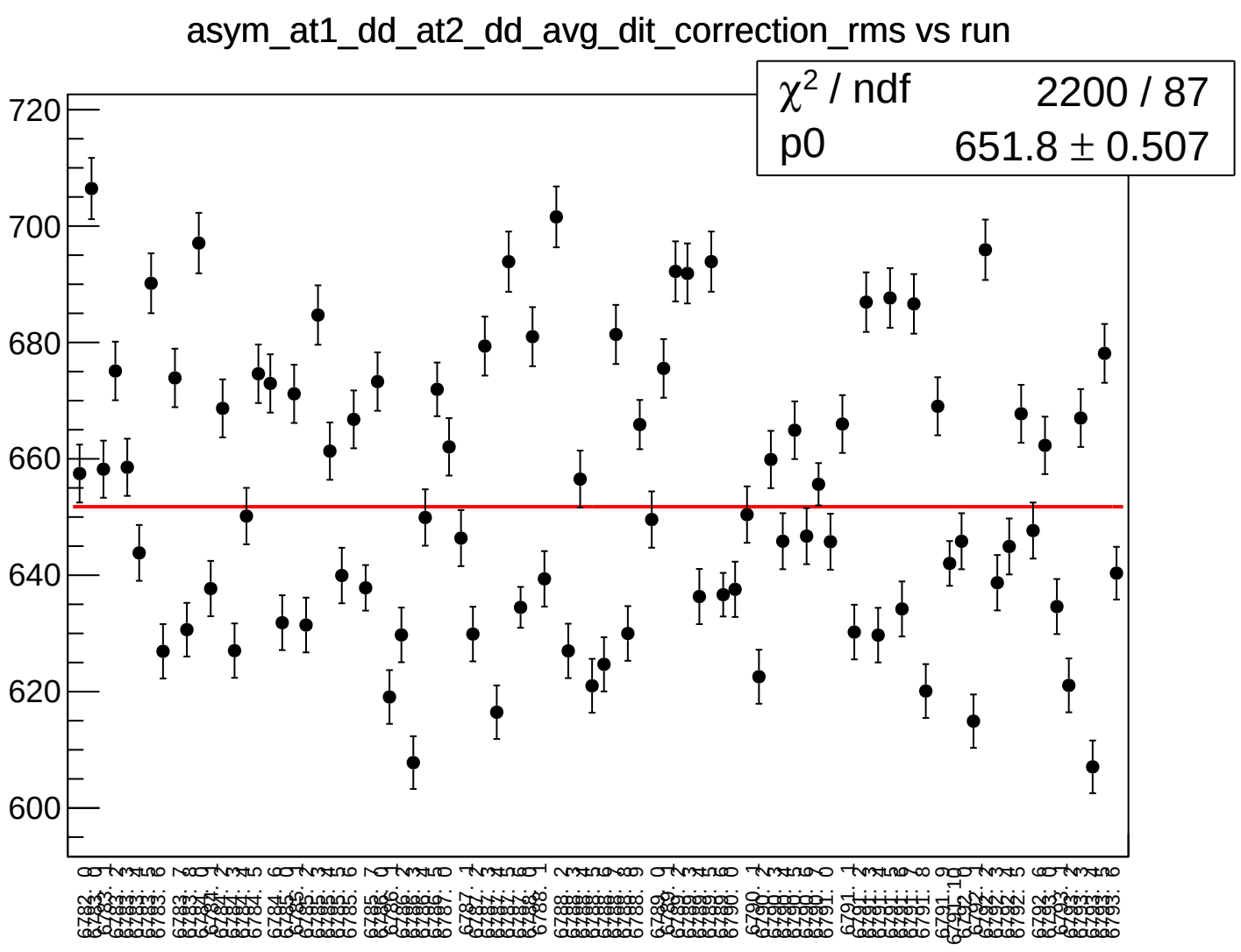

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.06 / 87
p0 1019 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −141.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

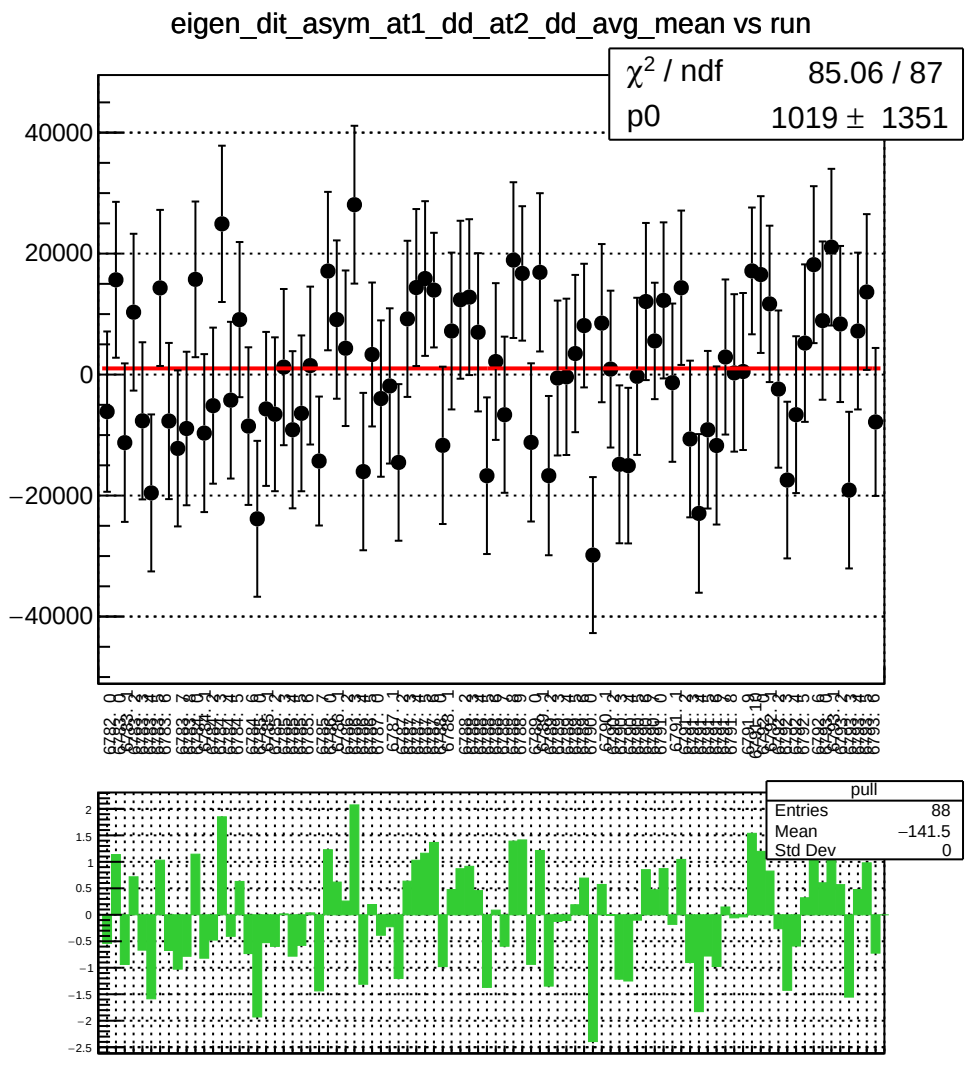

pull1D
Entries 88
Mean −0.01325
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

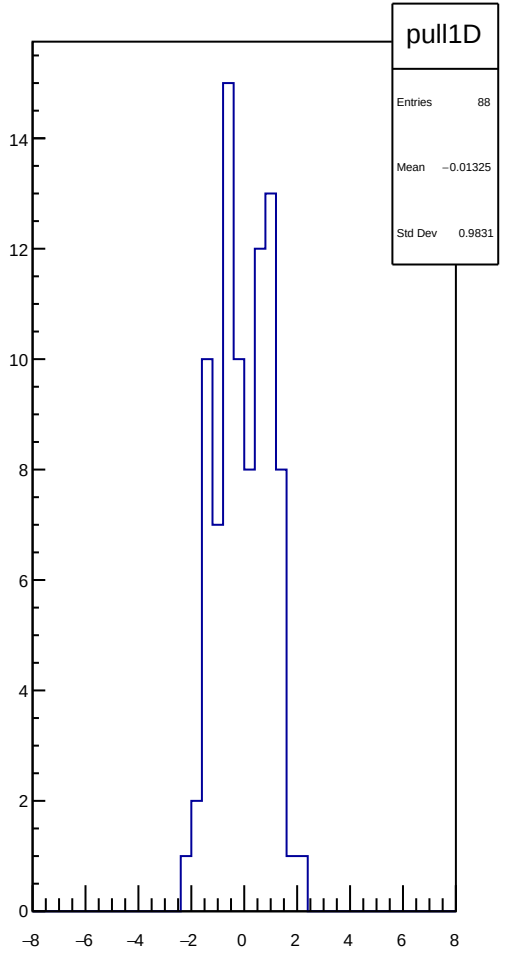

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 80.99 / 87
p0 1229 ± 0.9553
1260
1250
1240
1230
1220
1210
1200

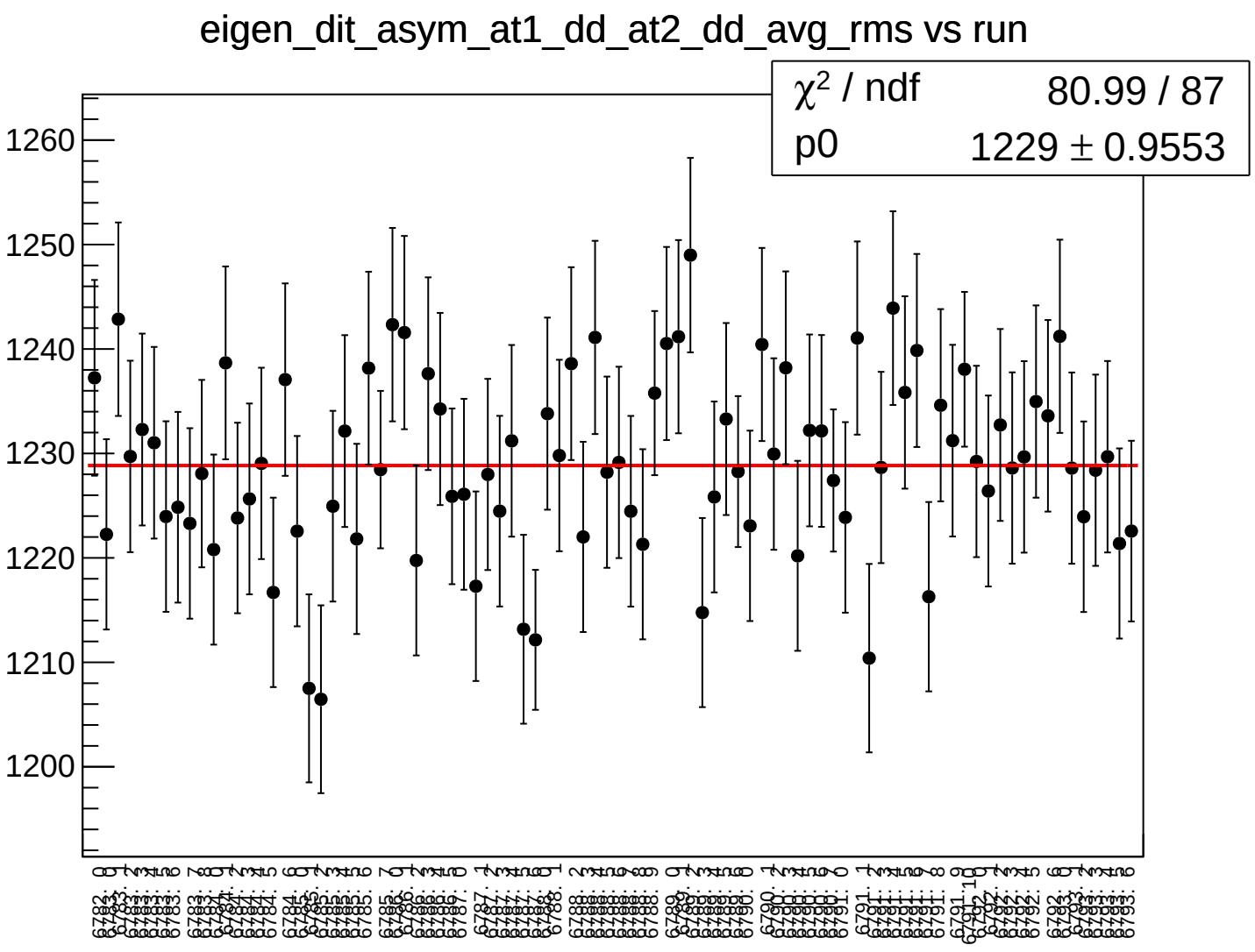

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 95.34 / 87
p0 2487 ± 717
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −273.5
Std Dev 0
2
1
0
−1
−2

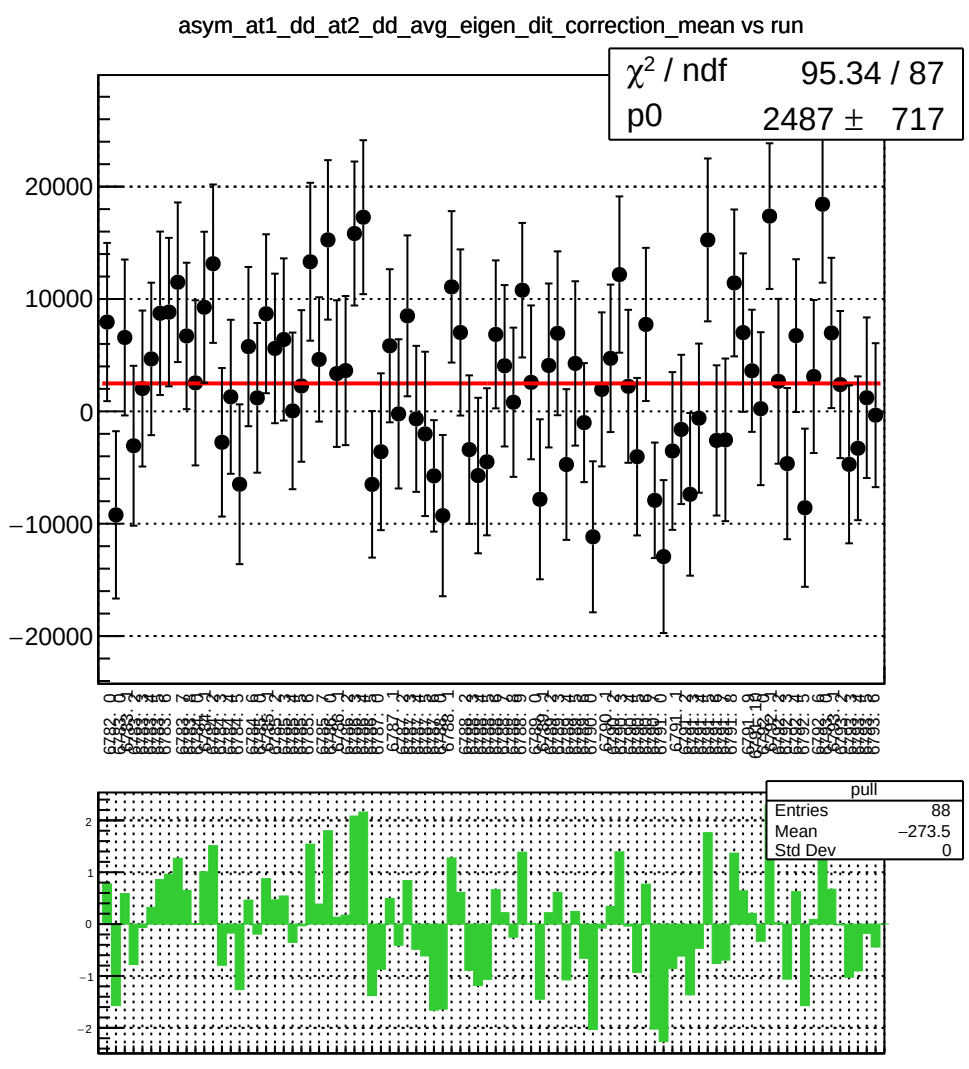

pull1D
Entries 88
Mean 0.01283
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

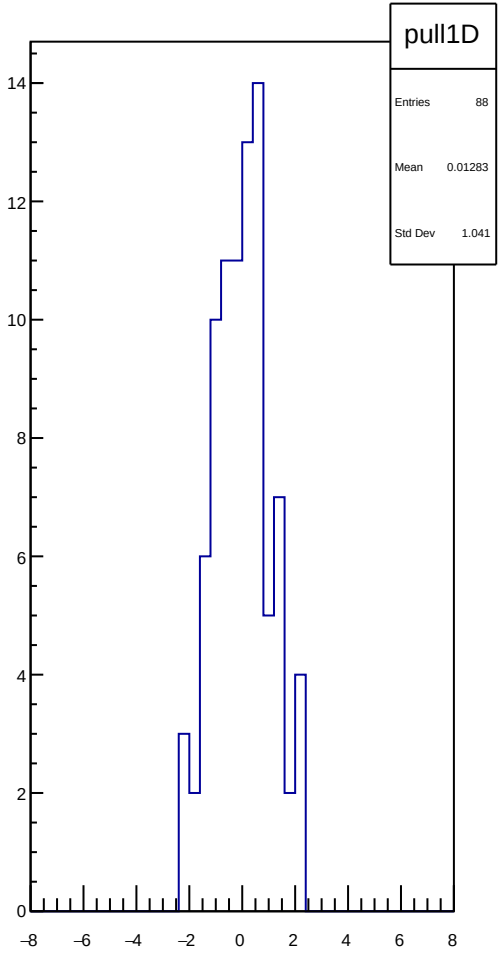

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2200 / 87
p0 651.8 ± 0.507
720
700
680
660
640
620
600

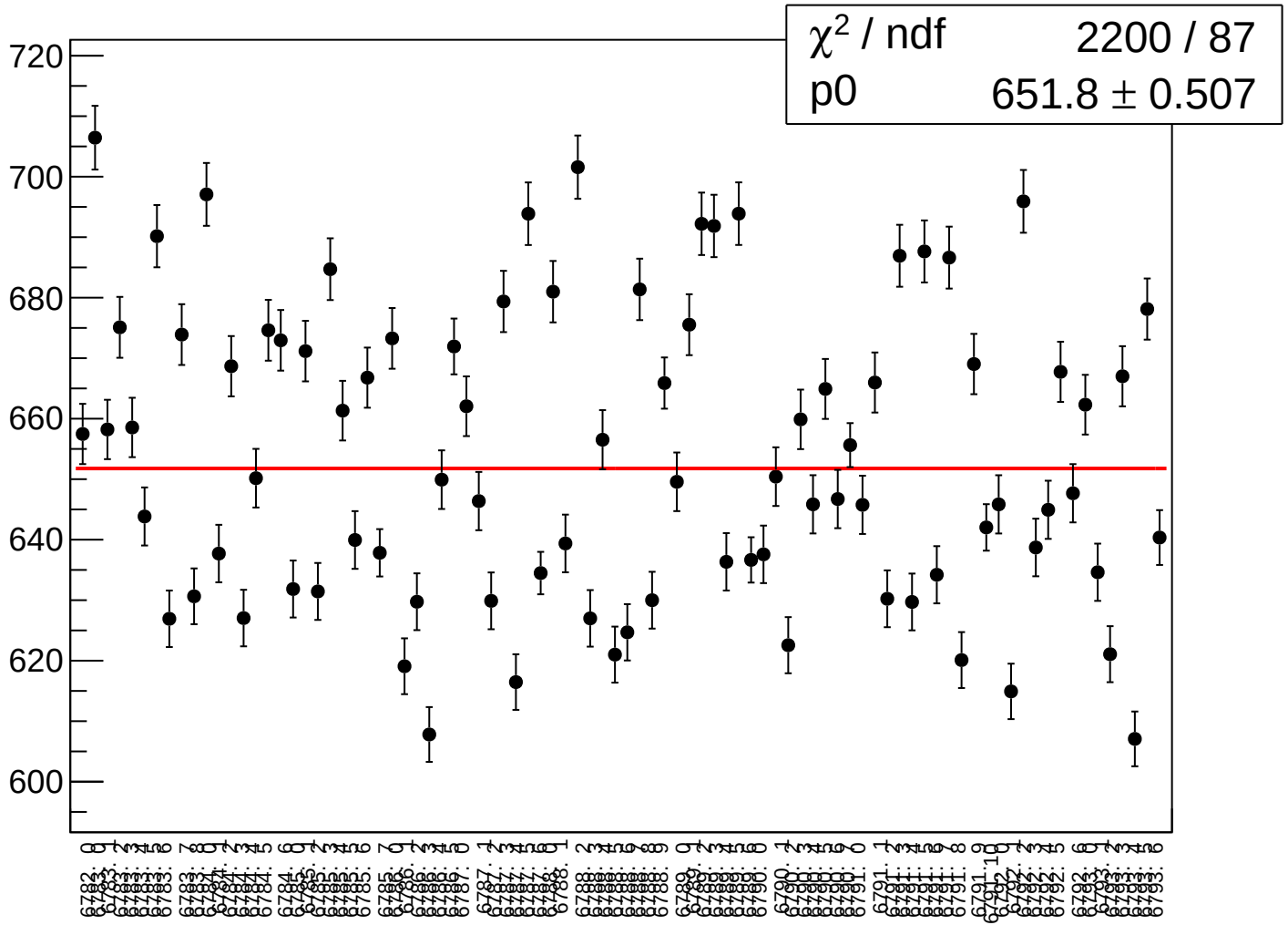

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.06 / 87
p0 1019 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −141.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

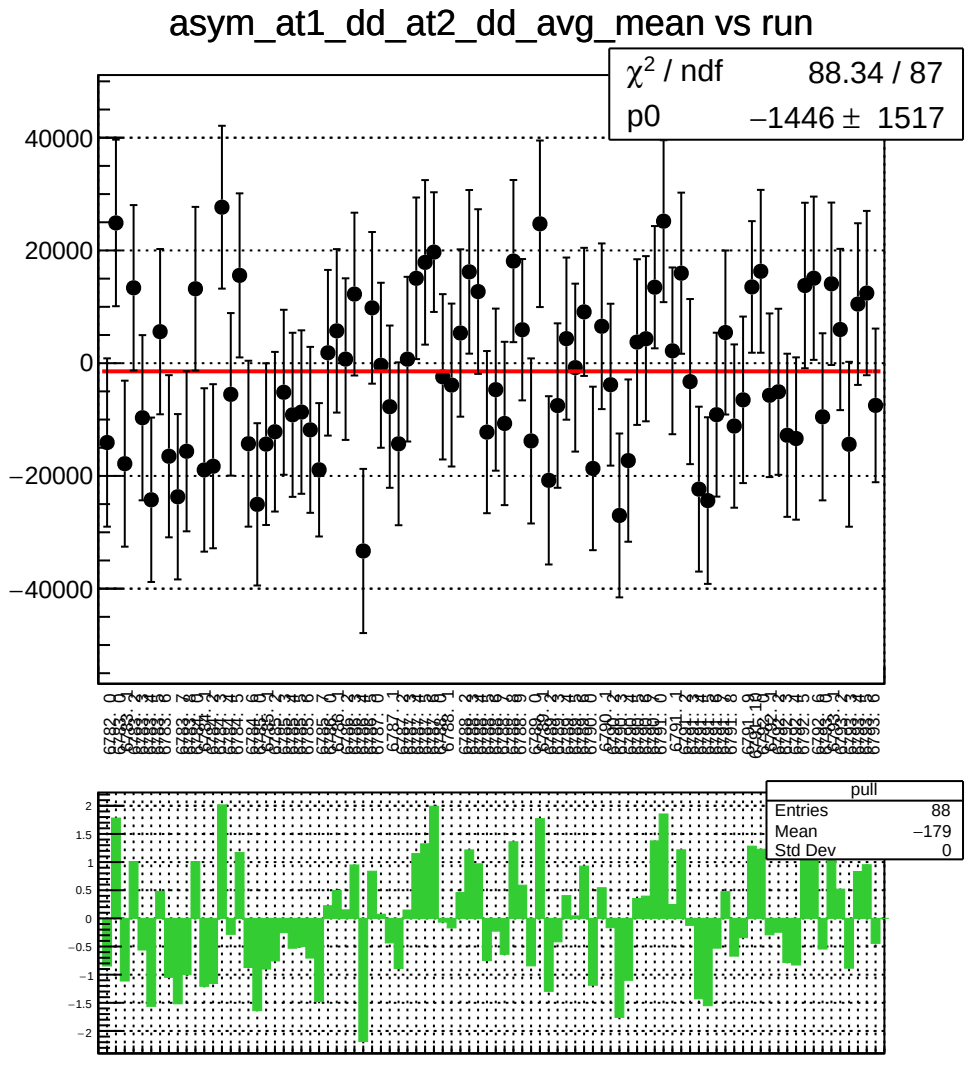

pull1D
Entries 88
Mean −0.01325
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

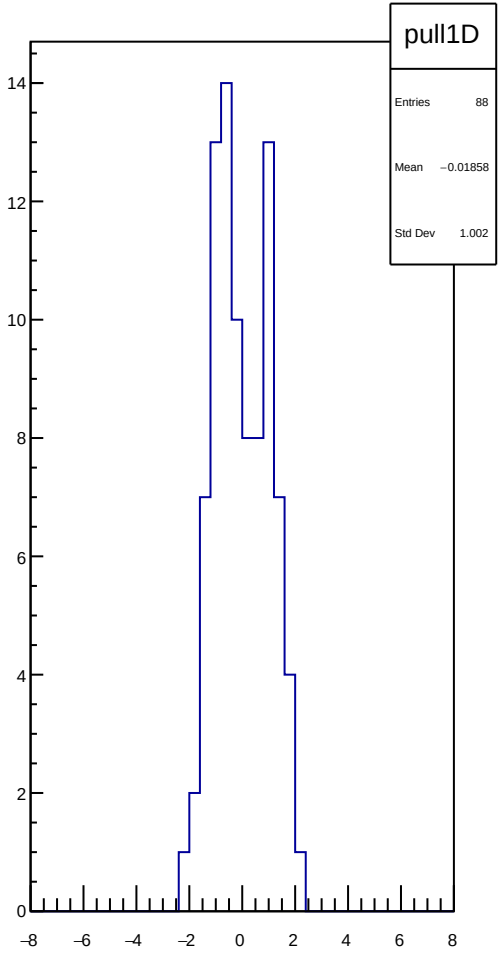

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 80.99 / 87
p0 1229 ± 0.9553
1260
1250
1240
1230
1220
1210
1200

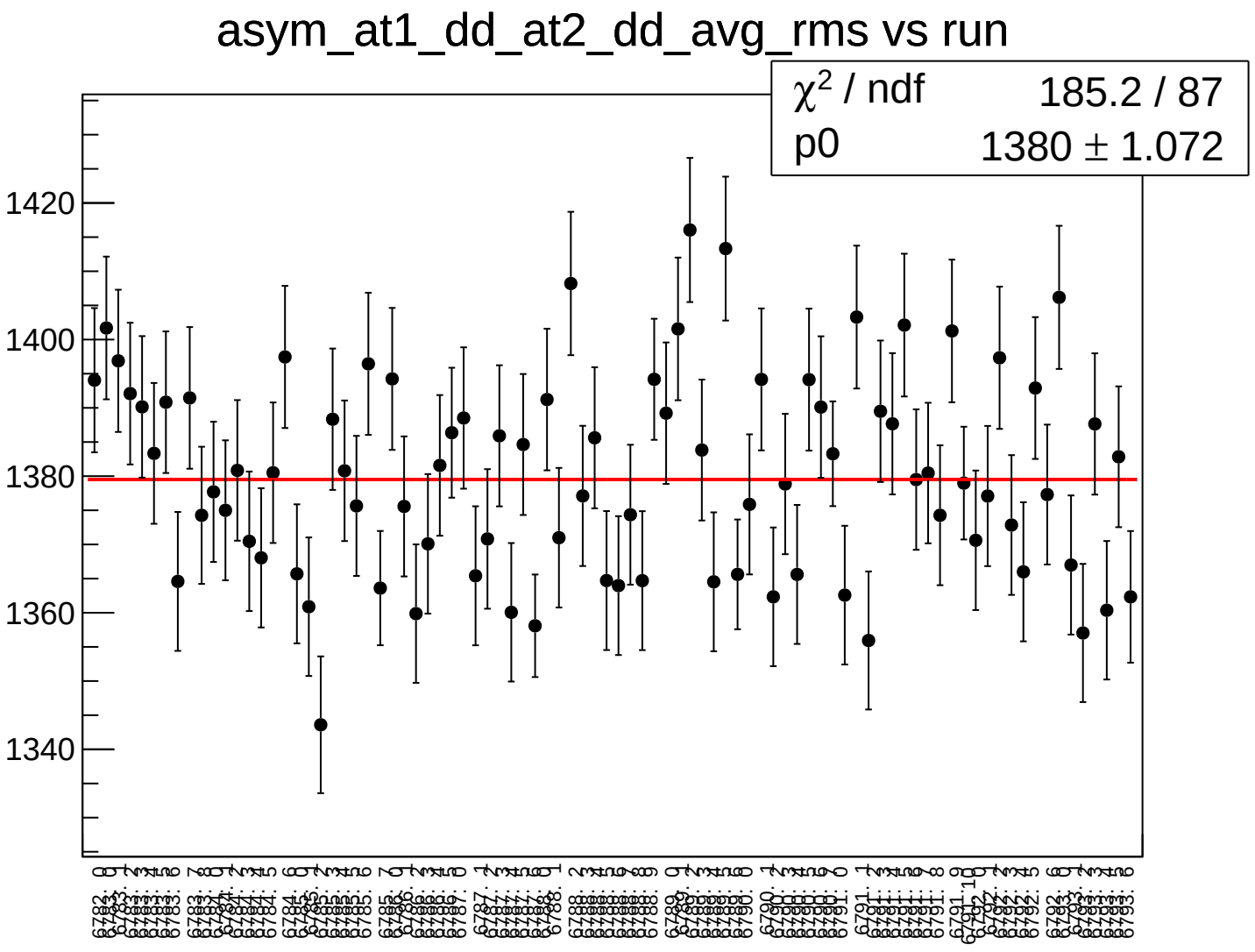

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.34 / 87
p0 2487 ± 717
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −273.5
Std Dev 0
2
1
0
−1
−2

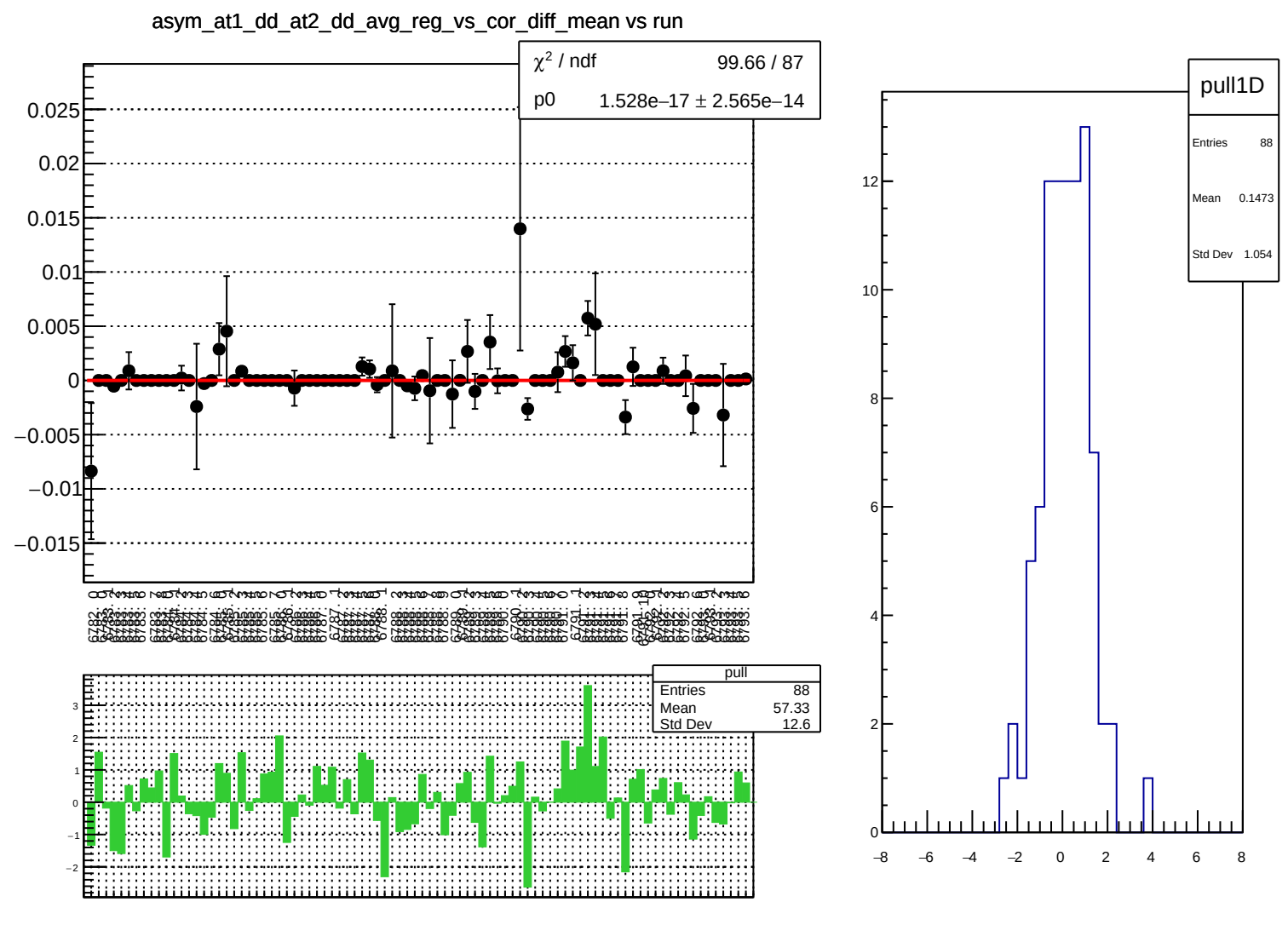

pull1D
Entries 88
Mean 0.01283
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

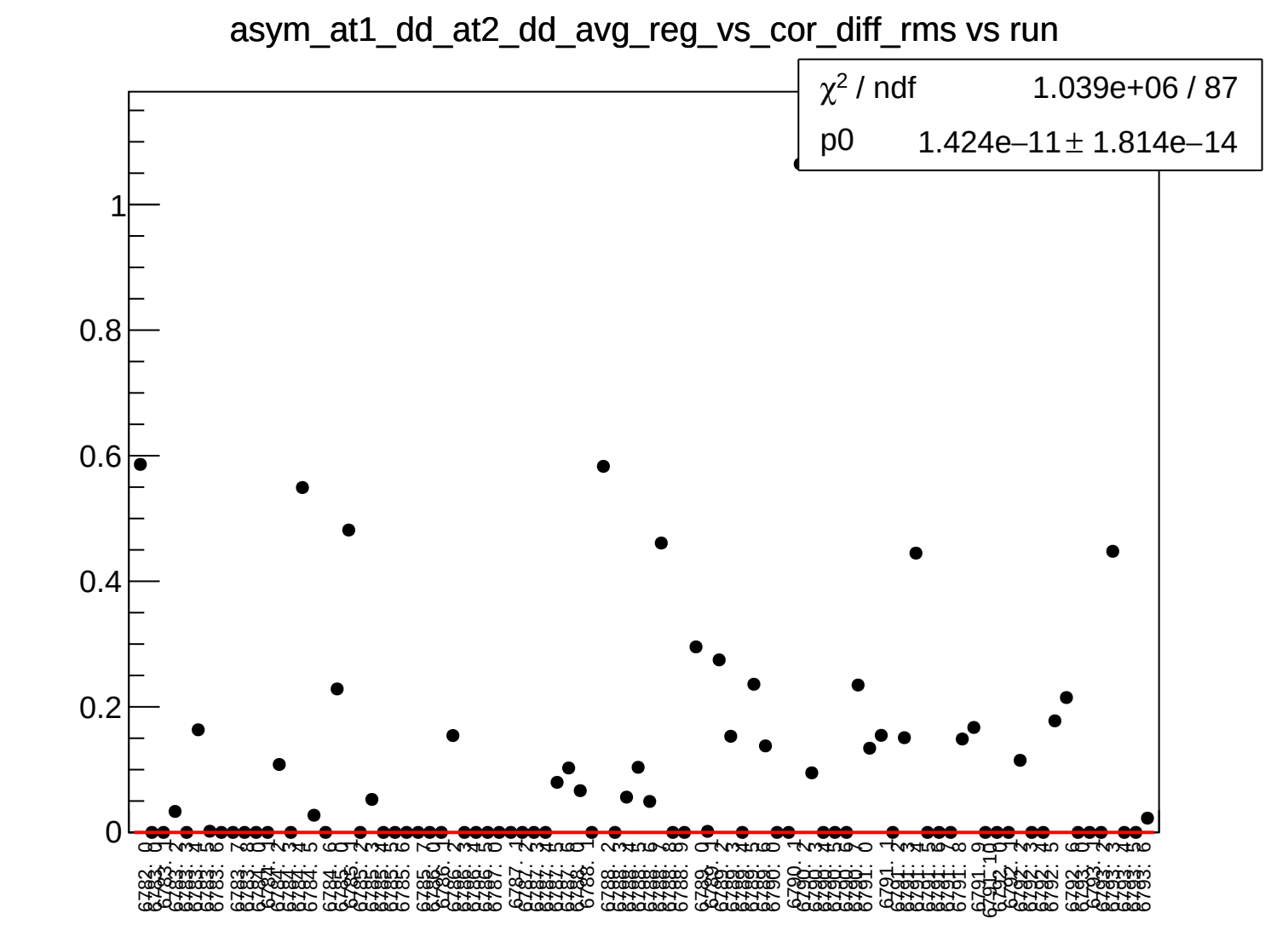

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2200 / 87
p0 651.8 ± 0.507
720
700
680
660
640
620
600

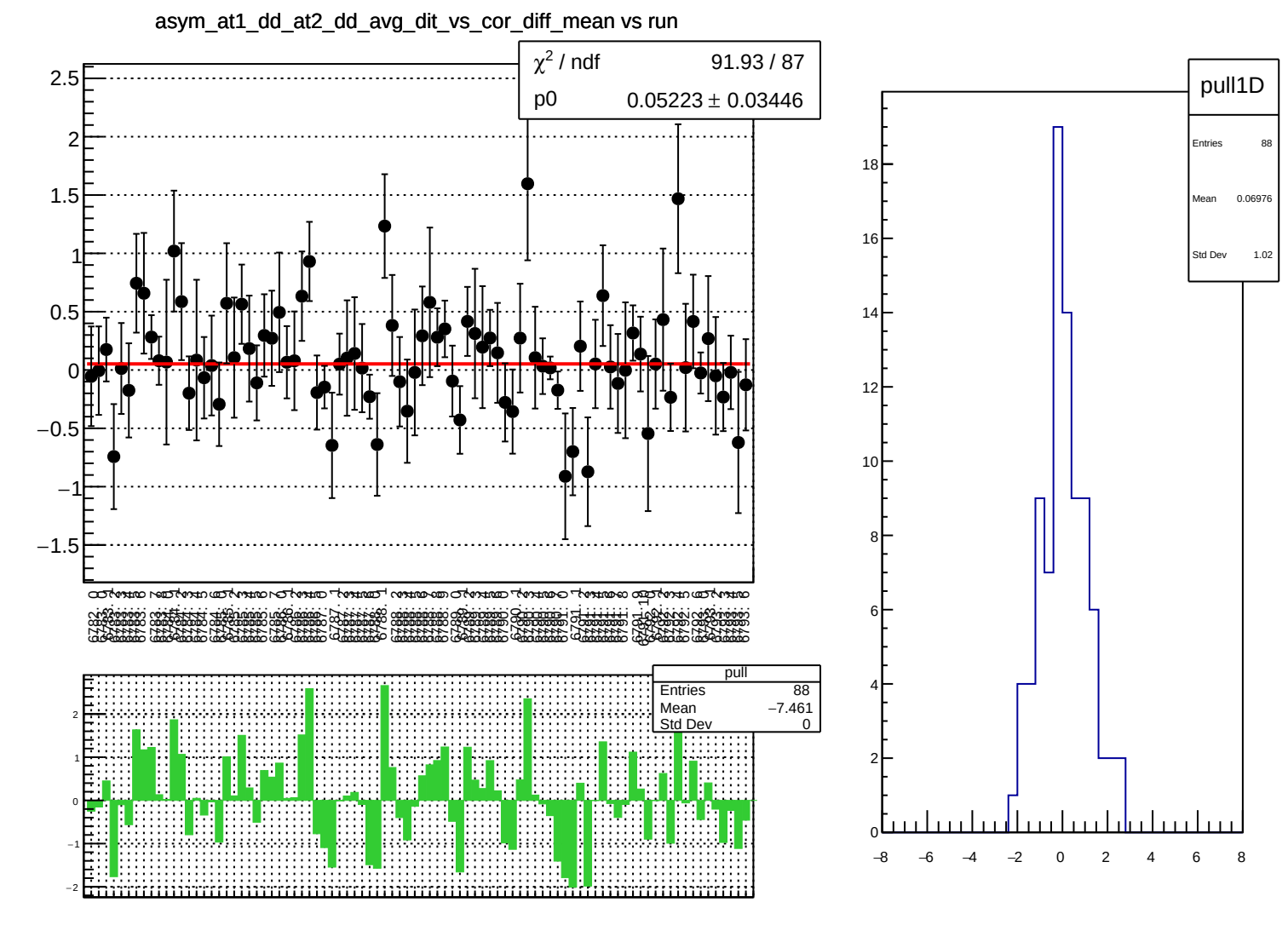

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 88.34 / 87
p0 −1446 ± 1517
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −179
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

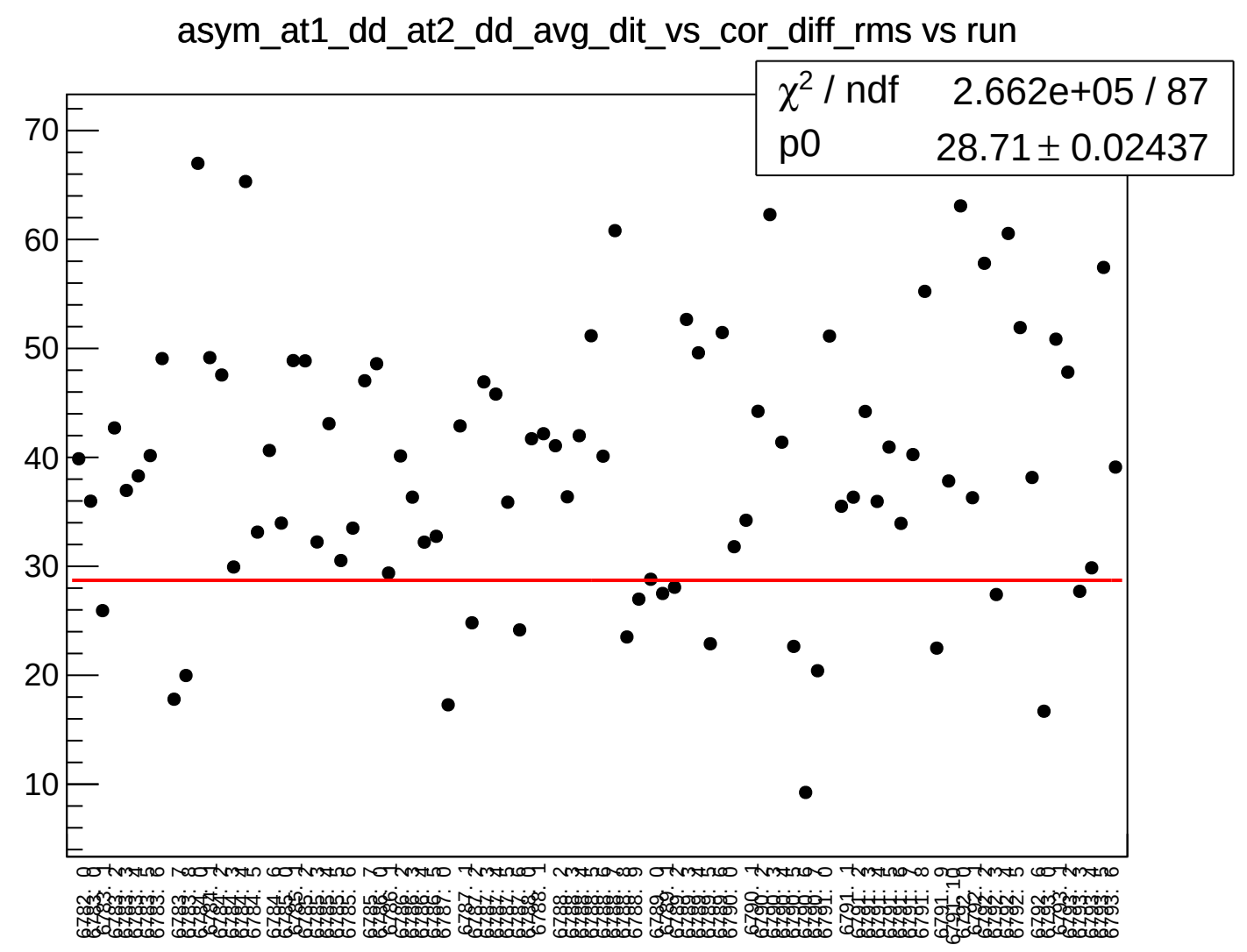

pull1D
Entries 88
Mean −0.01858
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

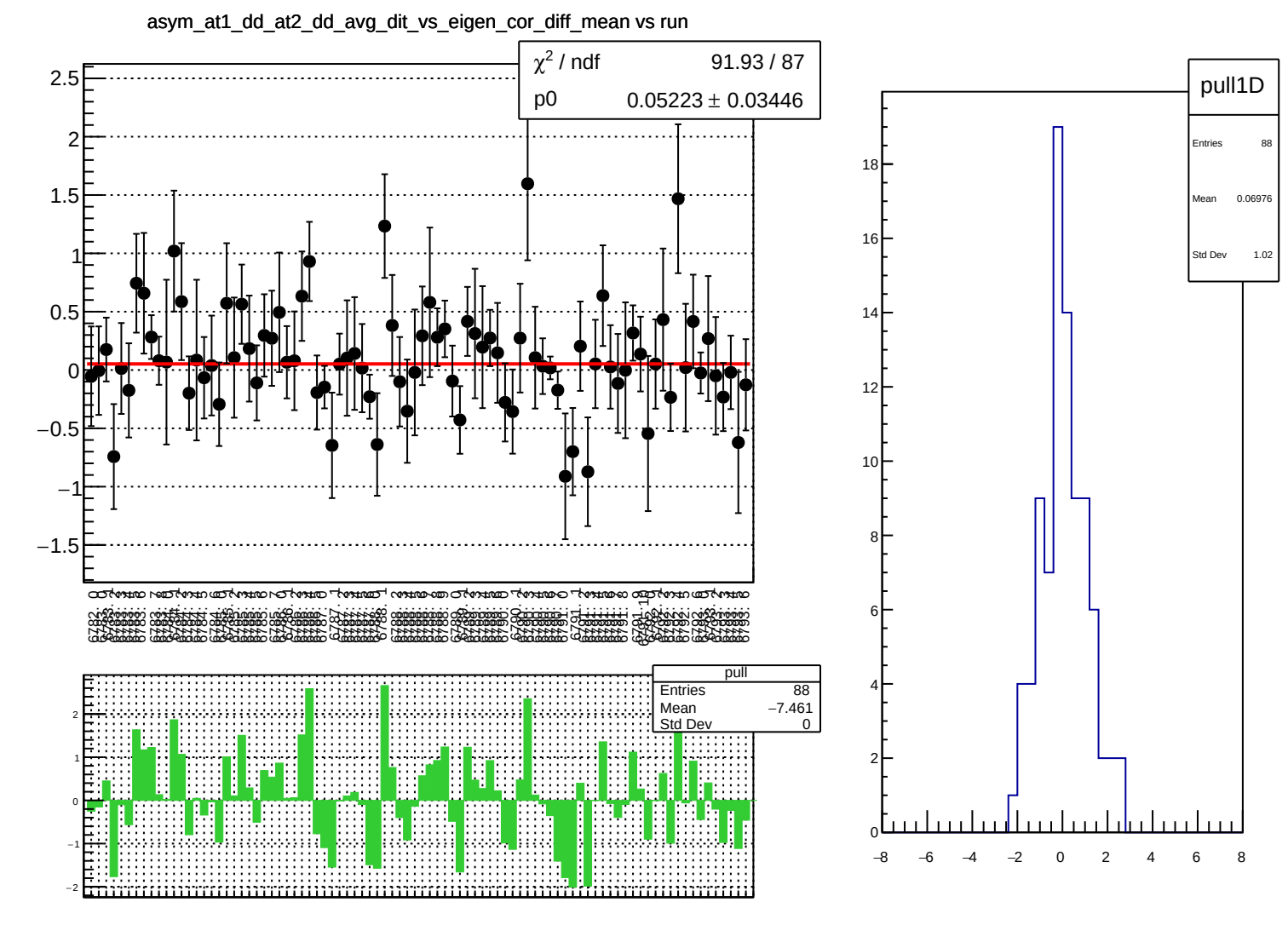

asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 185.2 / 87
p0 1380 ± 1.072
1420
1400
1380
1360
1340

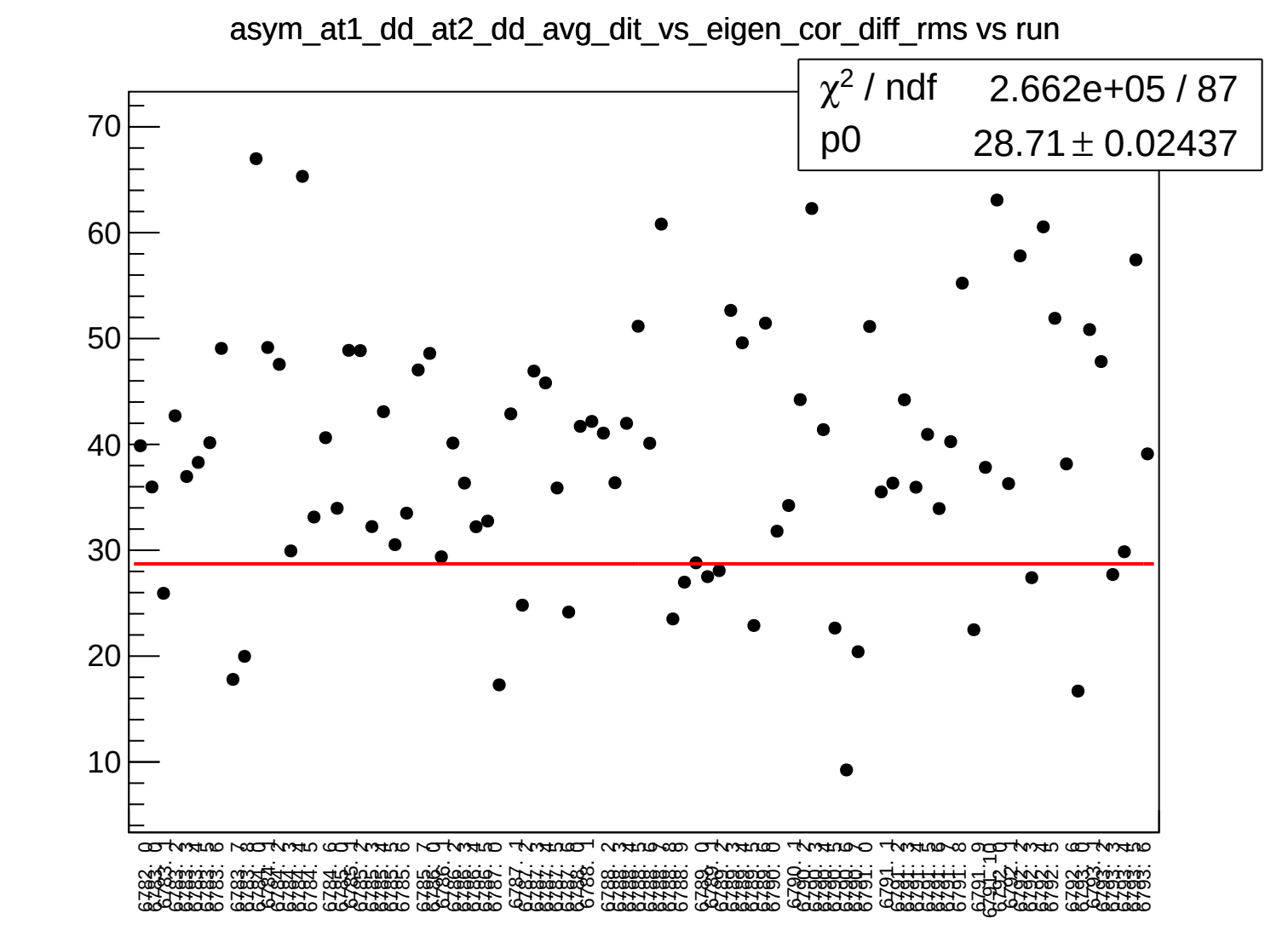

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.66 / 87
p0 1.528e−17 ± 2.565e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 57.33
Std Dev 12.6
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1473
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

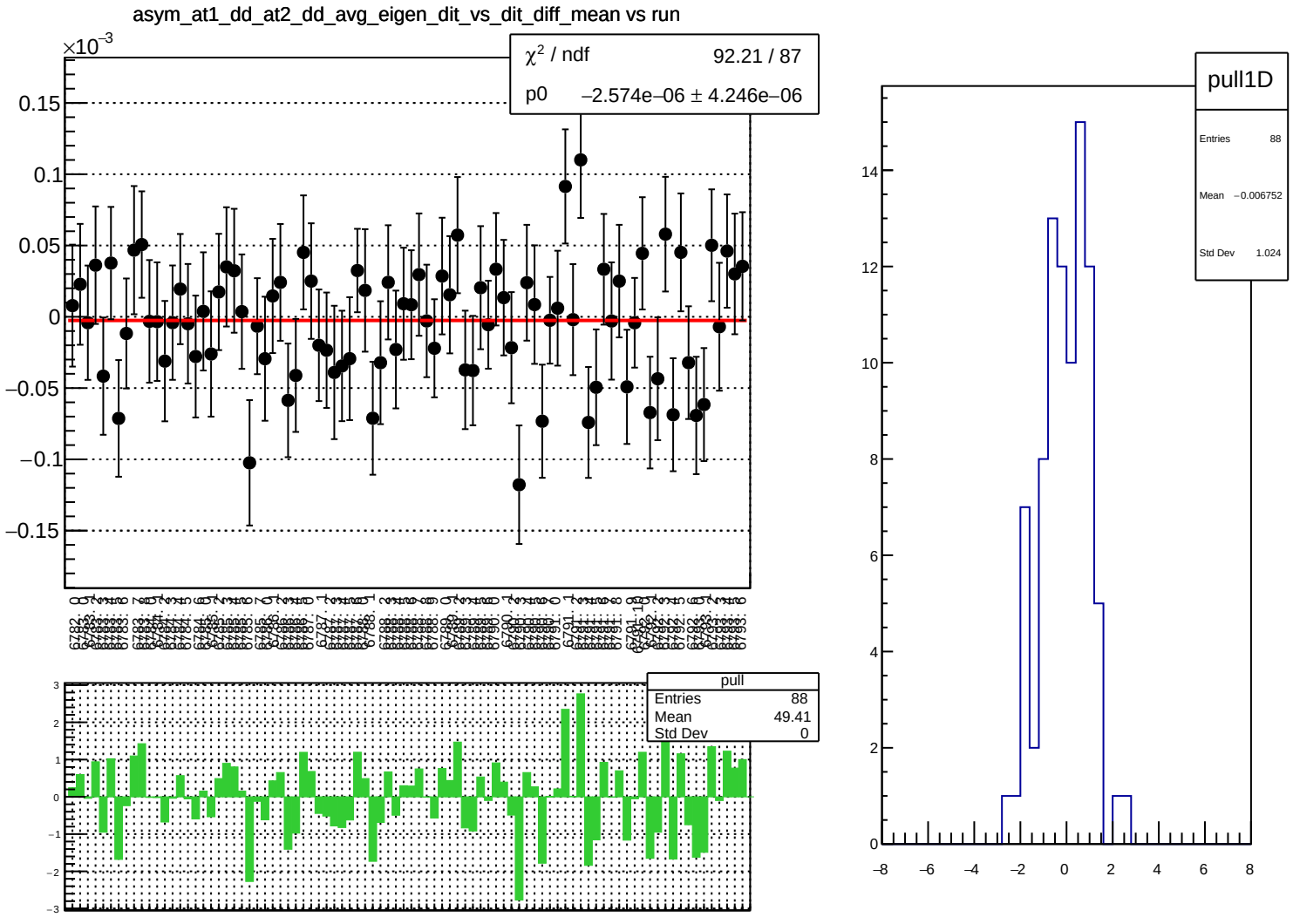

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 87
p0 1.424e−11 ± 1.814e−14
1
0.8
0.6
0.4
0.2
0

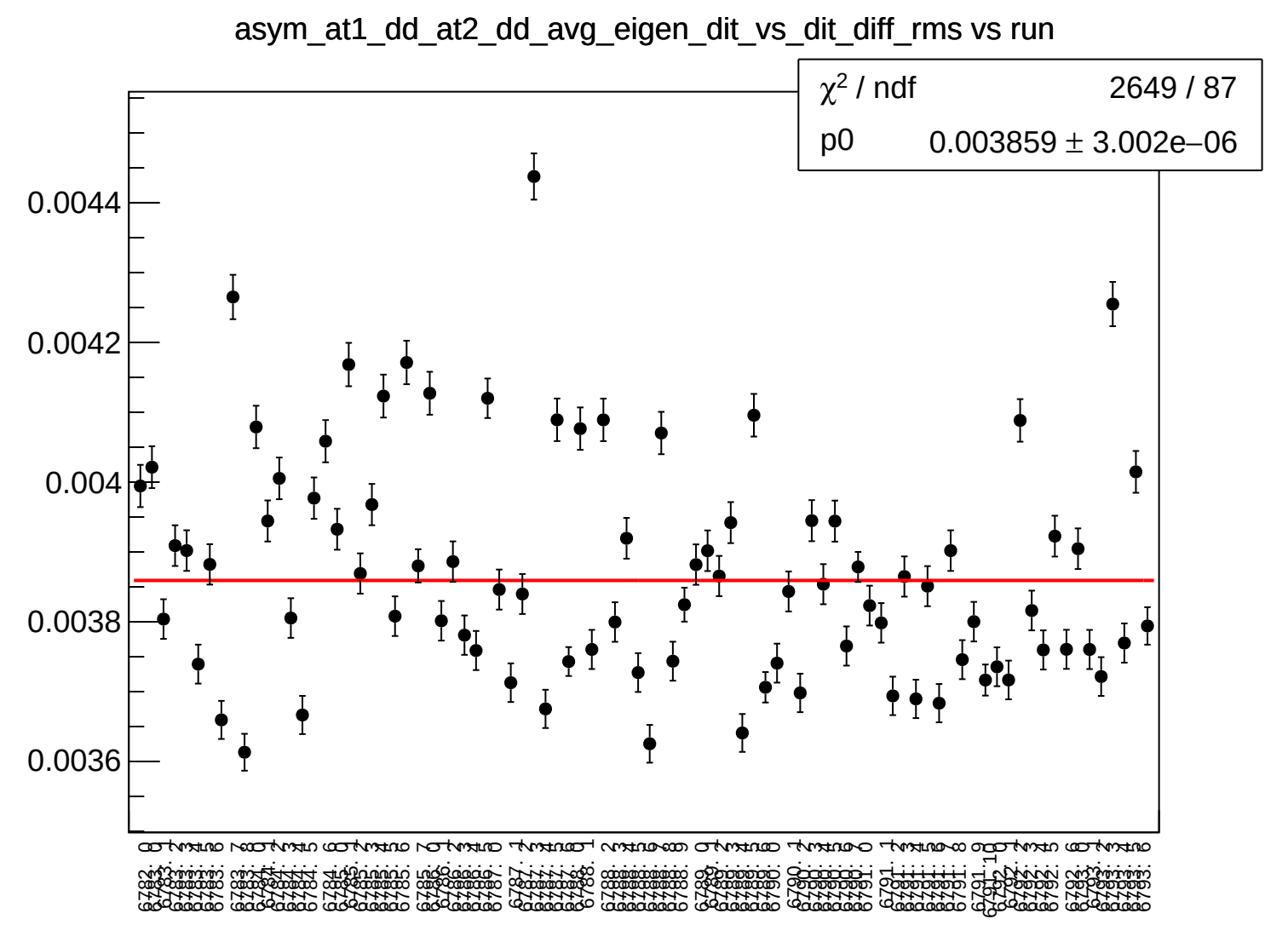

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05223 ± 0.03446
pull
Entries 88
Mean −7.461
Std Dev 0
pull1D
Entries 88
Mean 0.06976
Std Dev 1.02

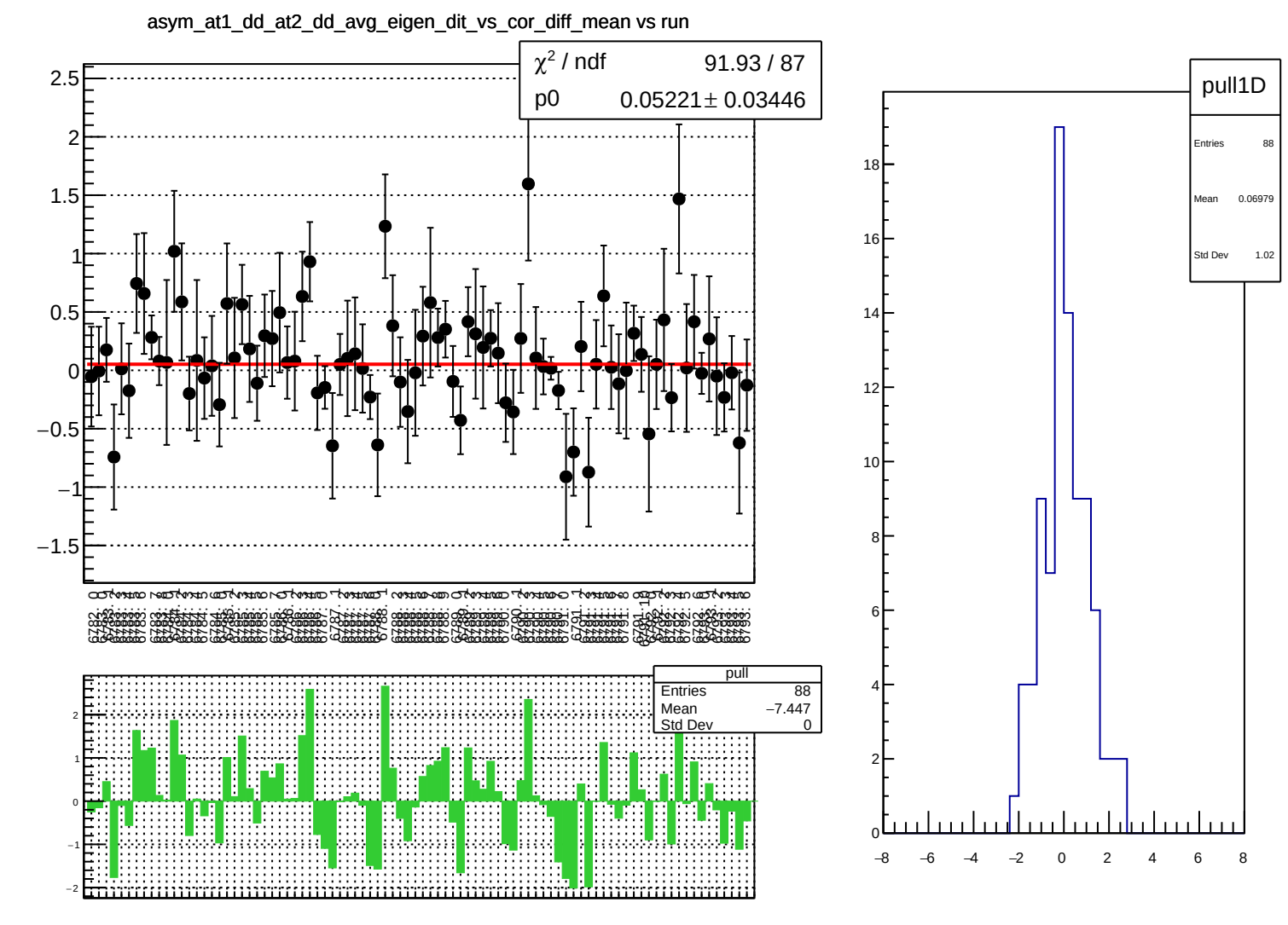

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.662e+05 / 87
p0 28.71 ± 0.02437
70
60
50
40
30
20
10

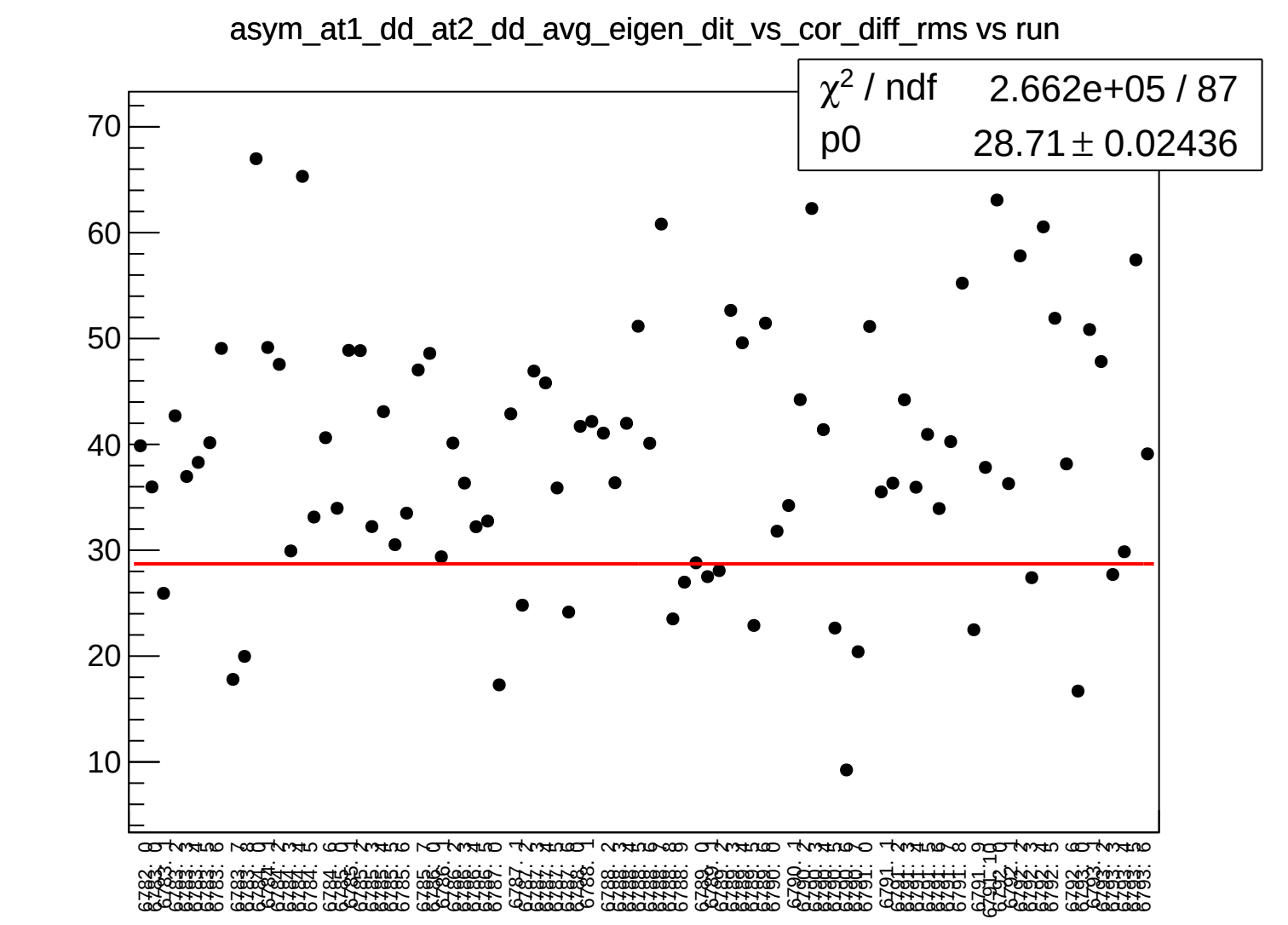

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05223 ± 0.03446
pull
Entries 88
Mean −7.461
Std Dev 0
pull1D
Entries 88
Mean 0.06976
Std Dev 1.02

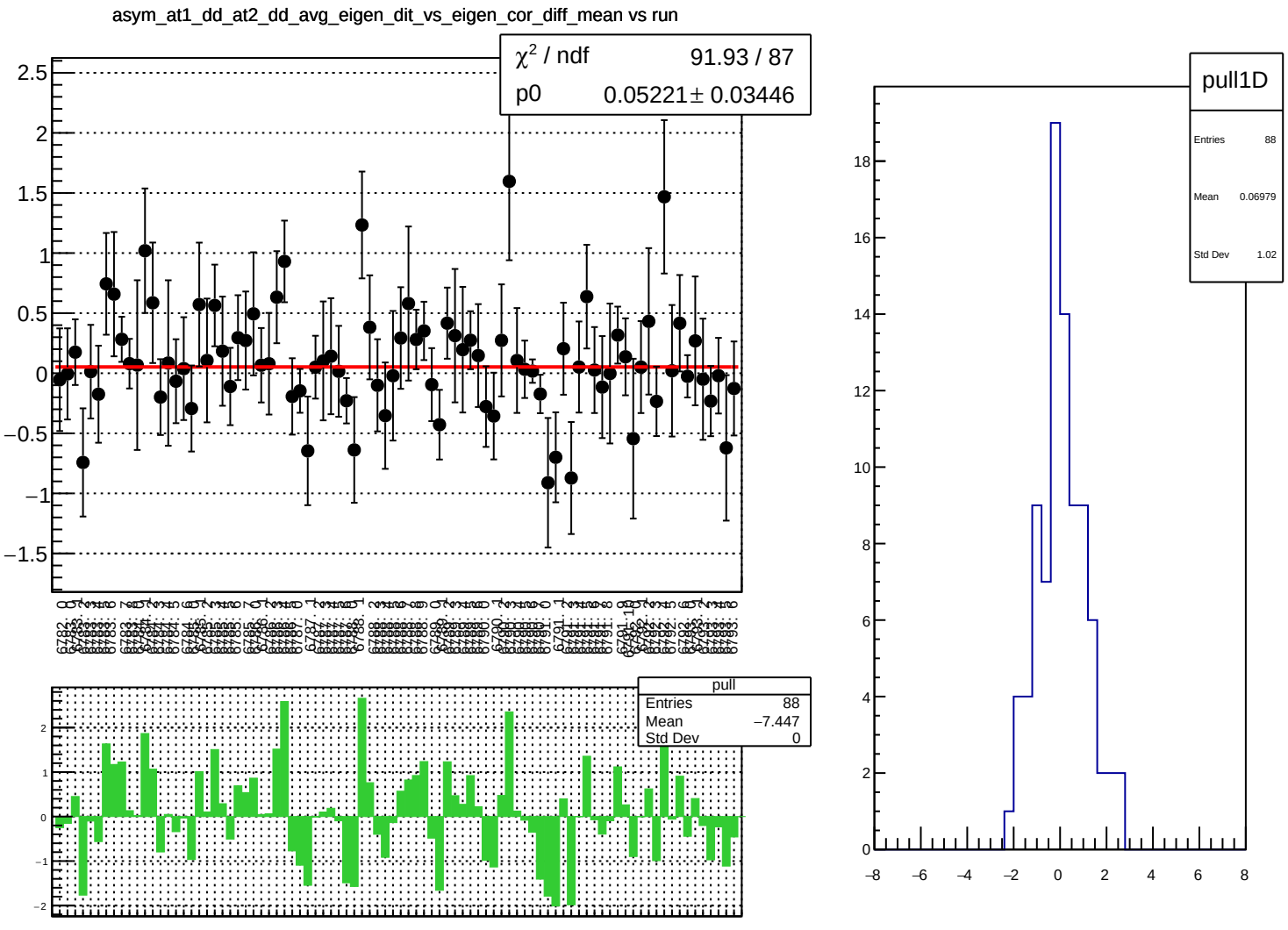

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.662e+05 / 87
p0 28.71 ± 0.02437
70
60
50
40
30
20
10

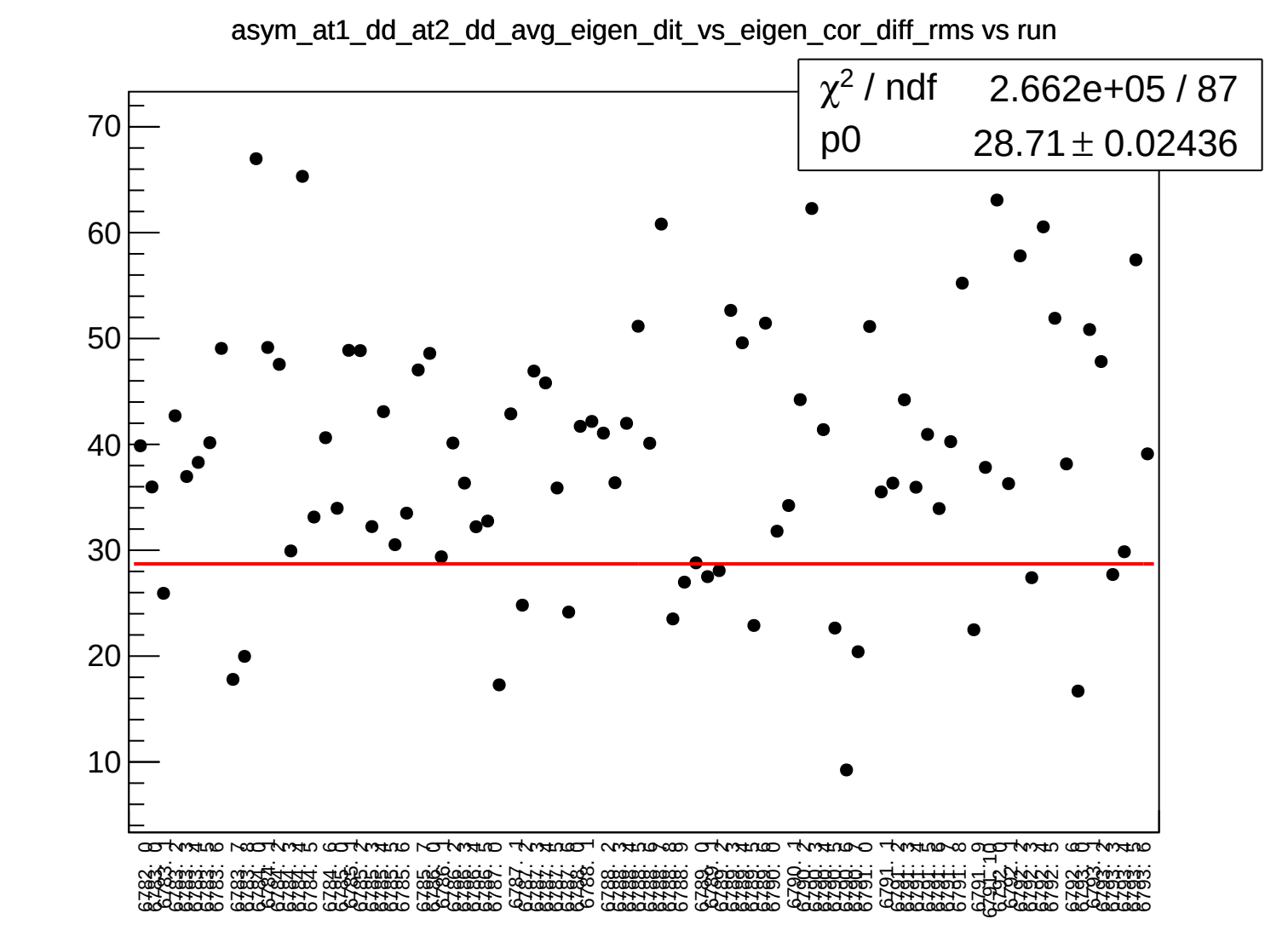

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.21 / 87
p0 −2.574e−06 ± 4.246e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 49.41
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.006752
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

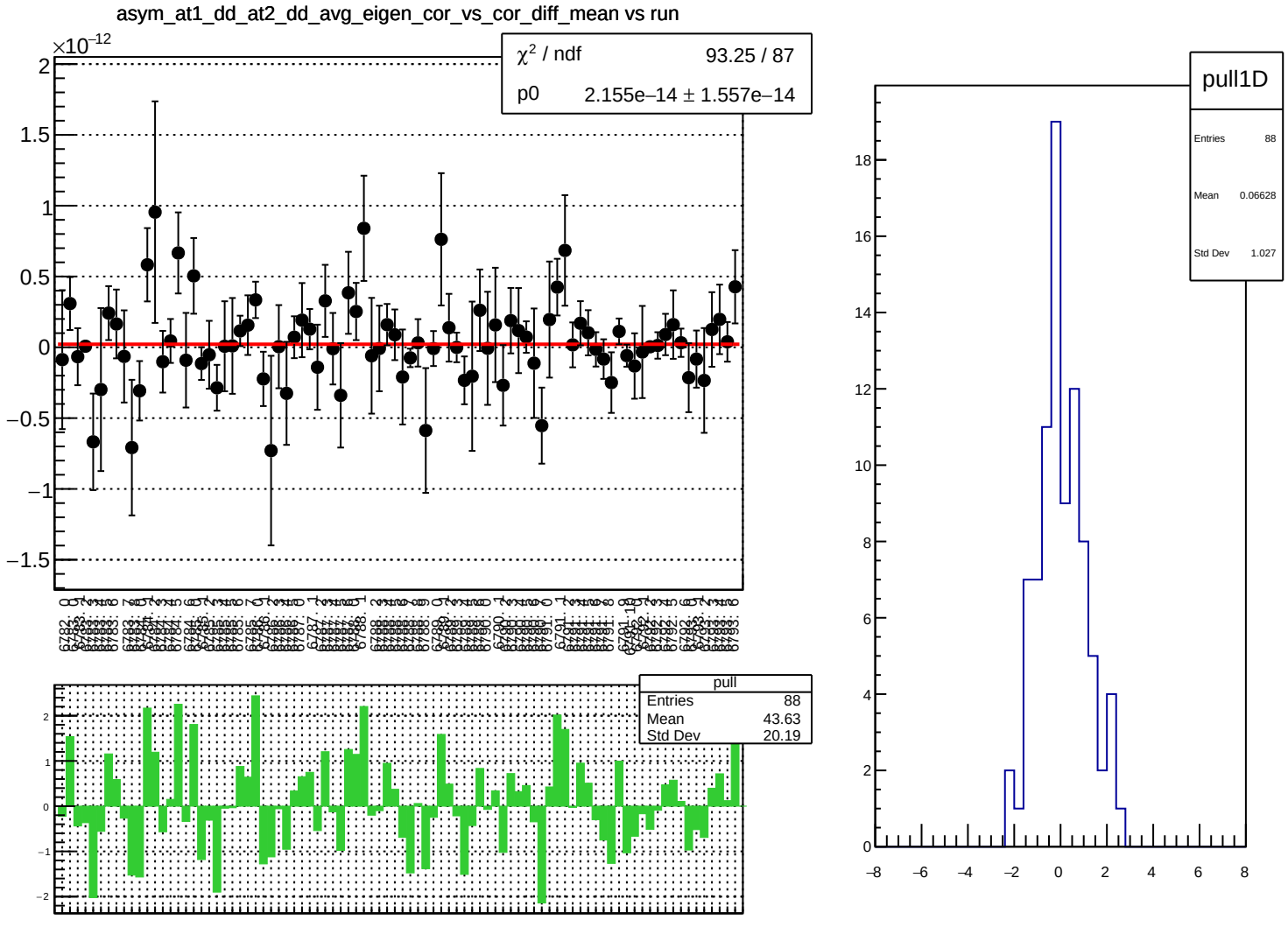

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2649 / 87
p0 0.003859 ± 3.002e−06
0.0044
0.0042
0.004
0.0038
0.0036

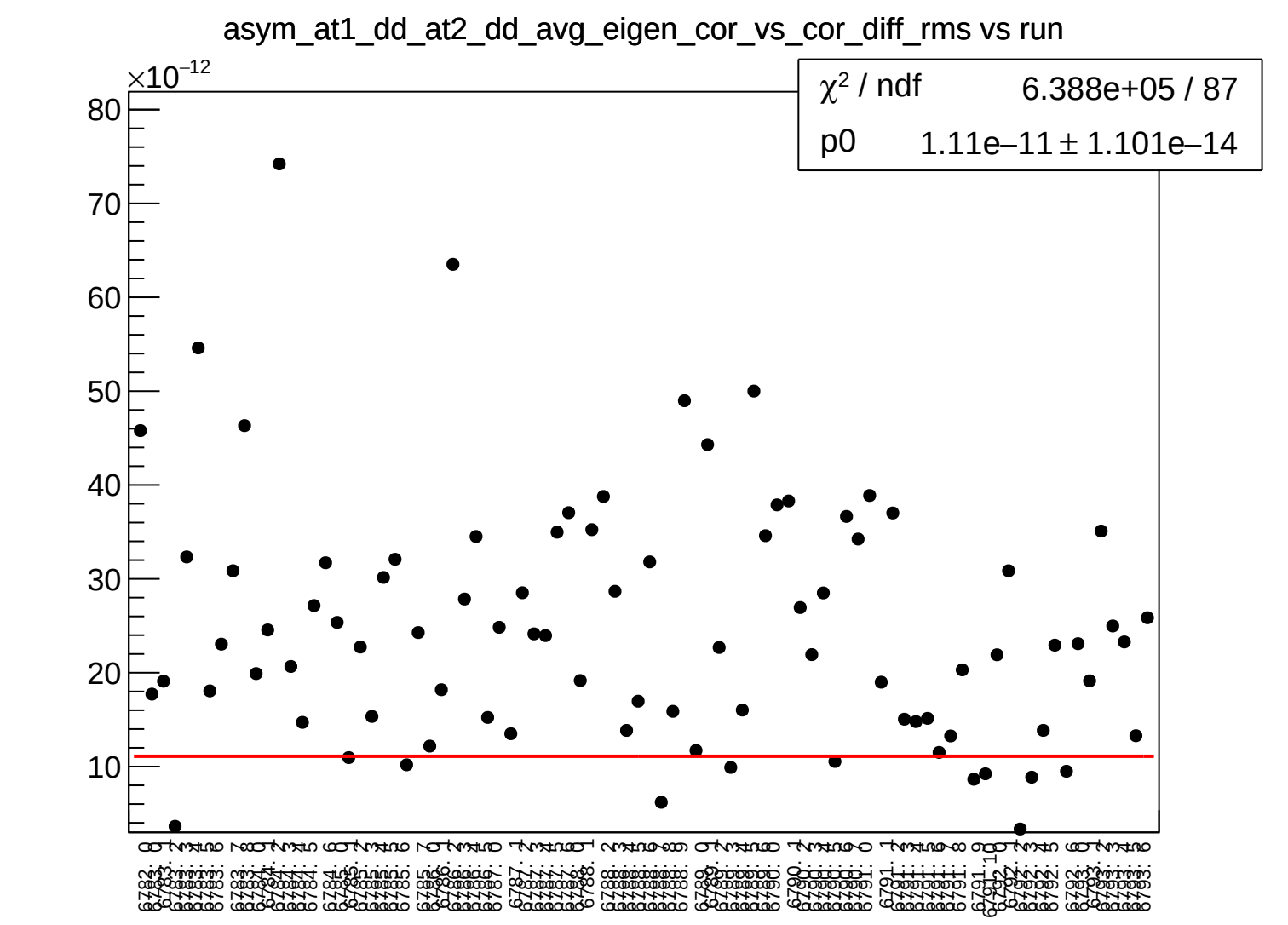

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05221 ± 0.03446
pull
Entries 88
Mean −7.447
Std Dev 0
pull1D
Entries 88
Mean 0.06979
Std Dev 1.02

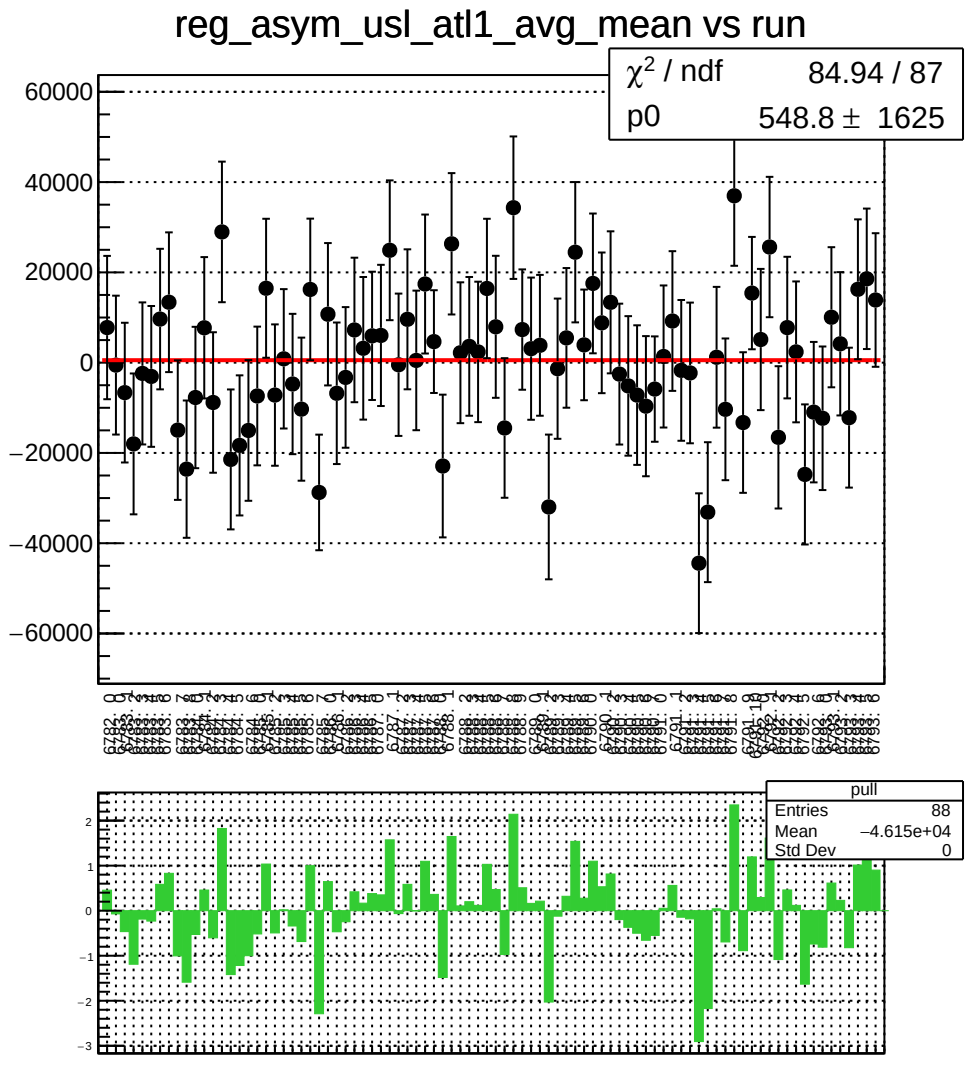

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.662e+05 / 87
p0 28.71 ± 0.02436
70
60
50
40
30
20
10

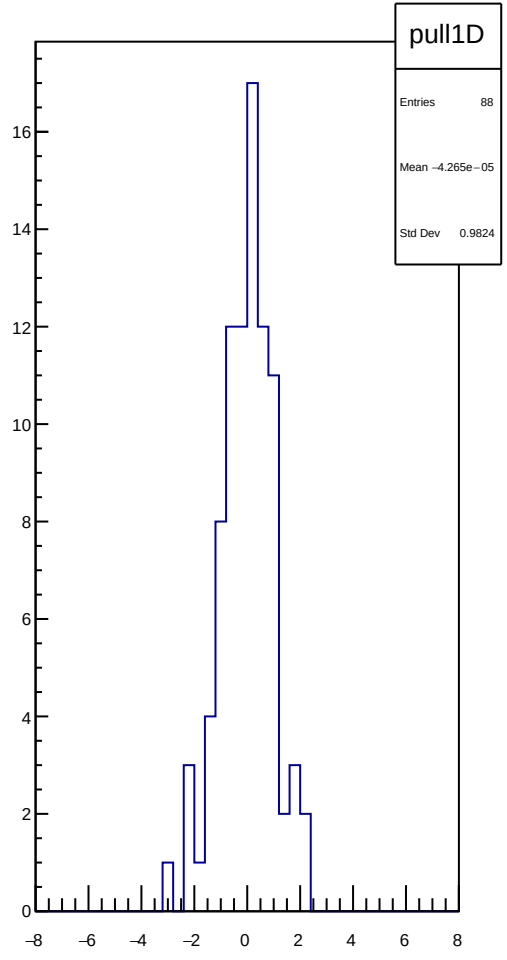

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.93 / 87
p0 0.05221 ± 0.03446
pull
Entries 88
Mean −7.447
Std Dev 0
pull1D
Entries 88
Mean 0.06979
Std Dev 1.02

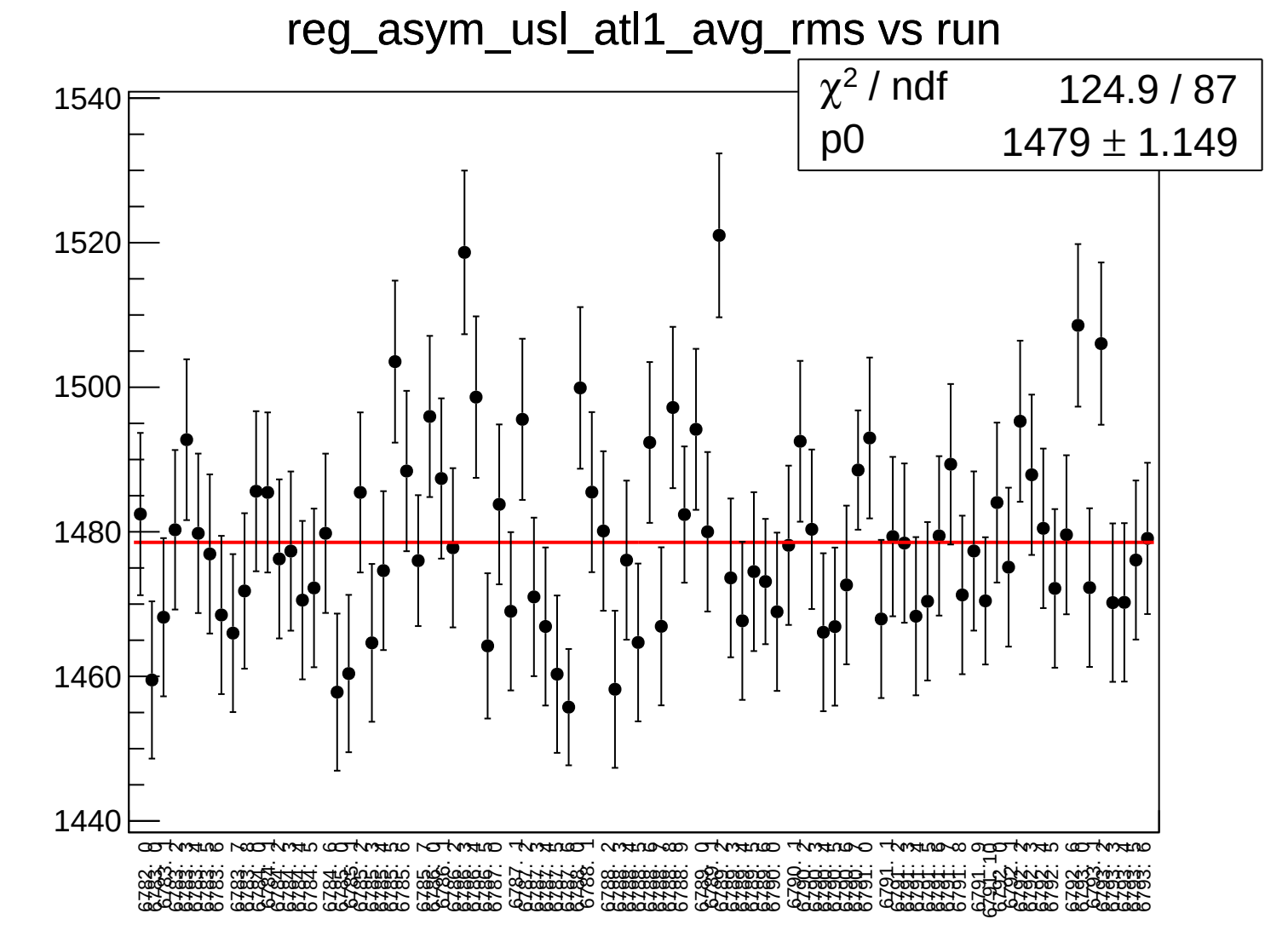

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.662e+05 / 87
p0 28.71 ± 0.02436
70
60
50
40
30
20
10

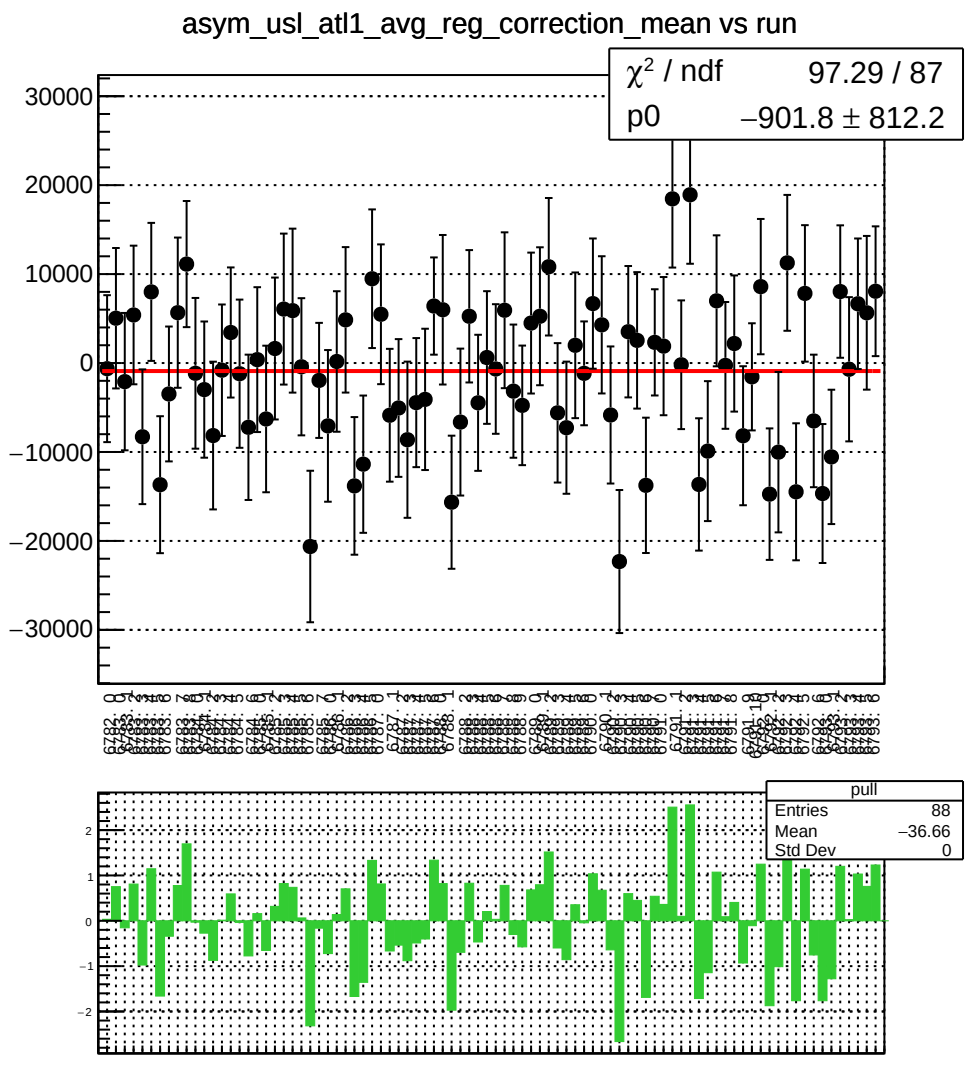

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.25 / 87
p0 2.155e−14 ± 1.557e−14
pull
Entries 88
Mean 43.63
Std Dev 20.19
pull1D
Entries 88
Mean 0.06628
Std Dev 1.027

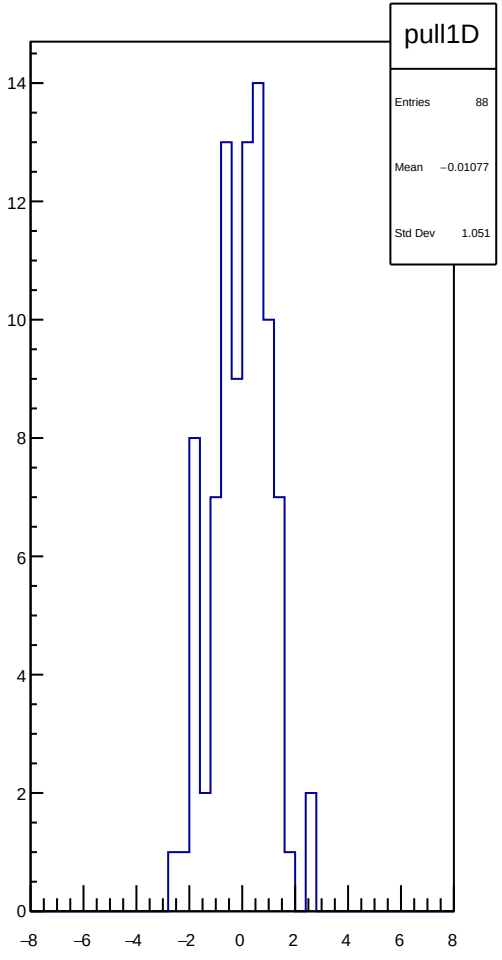

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.388e+05 / 87
p0 1.11e−11 ± 1.101e−14
80
70
60
50
40
30
20
10

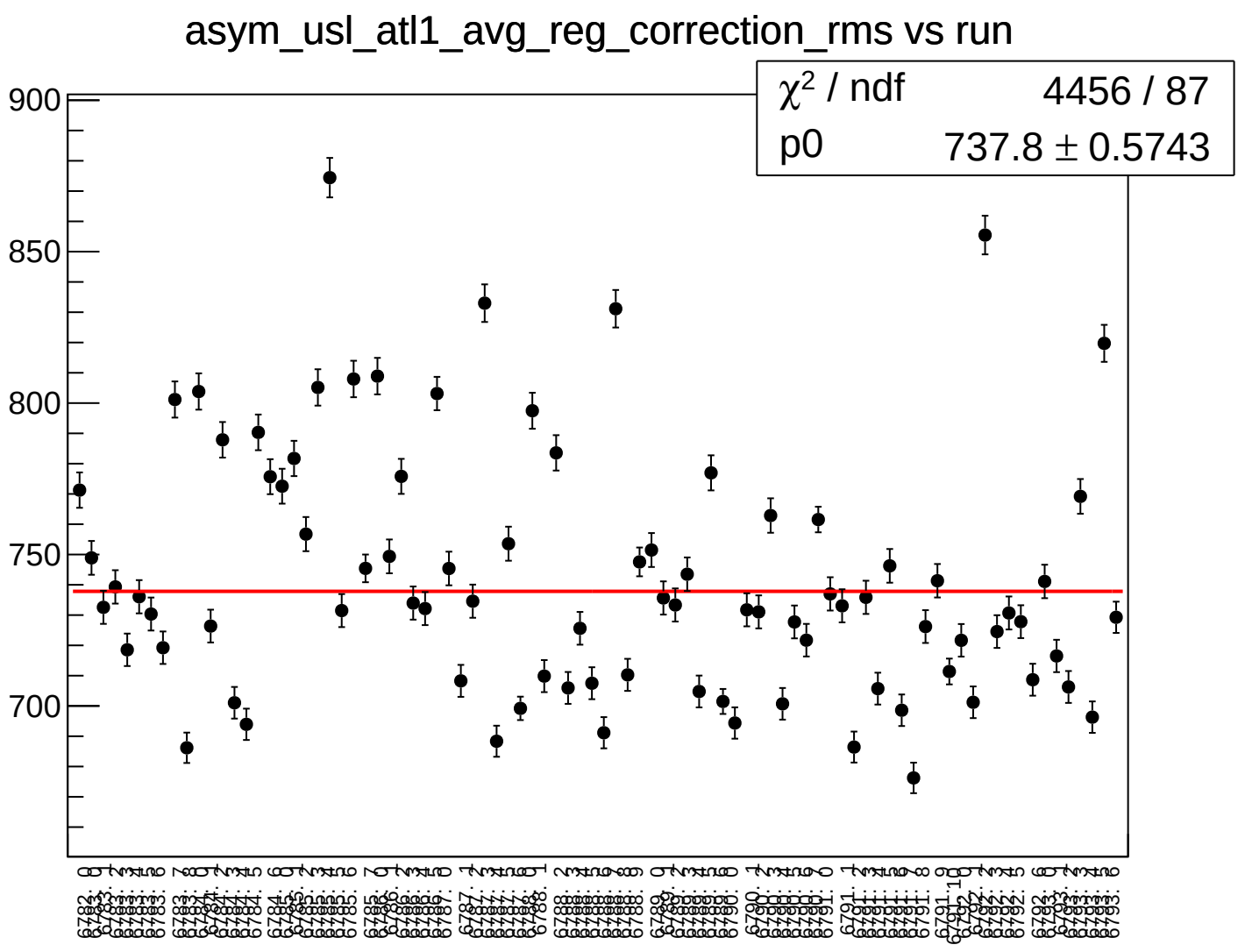

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.94 / 87
p0 548.8 ± 1625
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −4.615e+04
Std Dev 0
2
1
0
−1
−2
−3

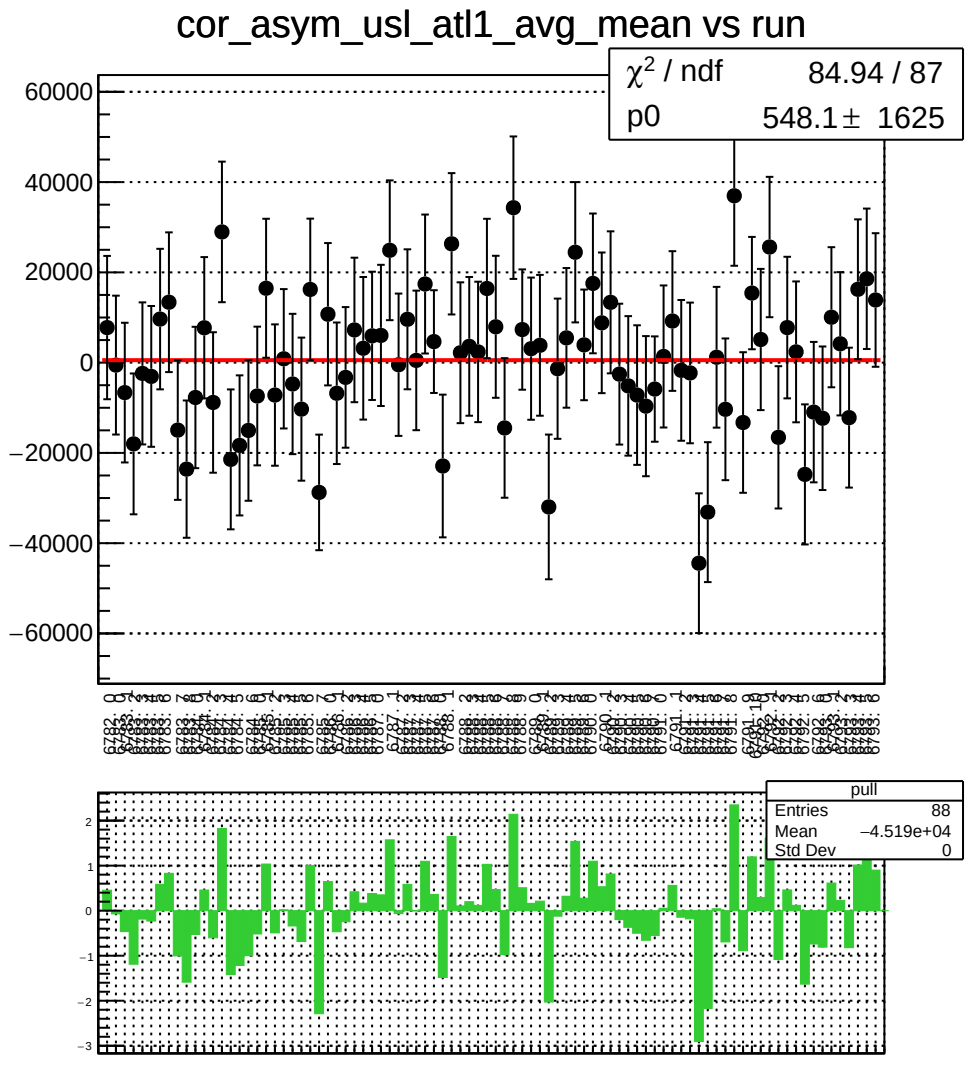

pull1D
Entries 88
Mean −4.265e−05
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

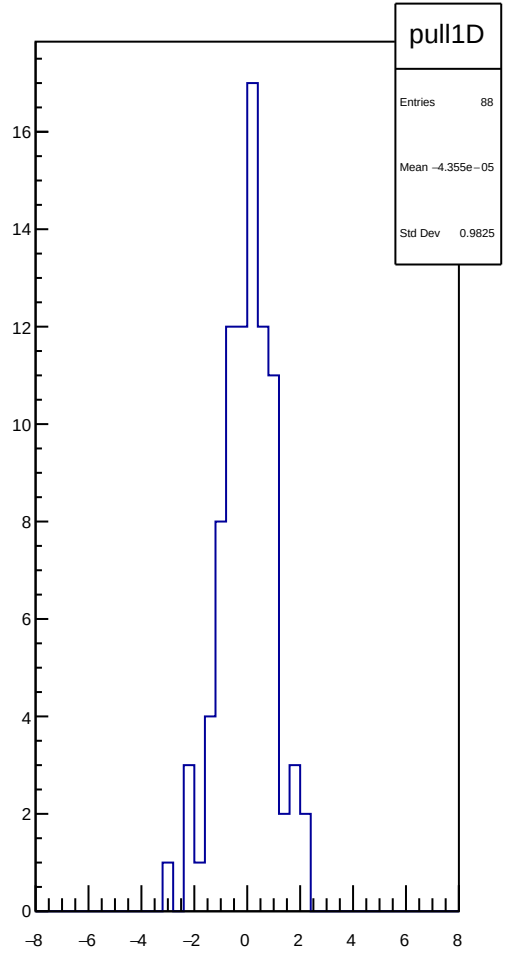

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 124.9 / 87
p0 1479 ± 1.149
1540
1520
1500
1480
1460
1440

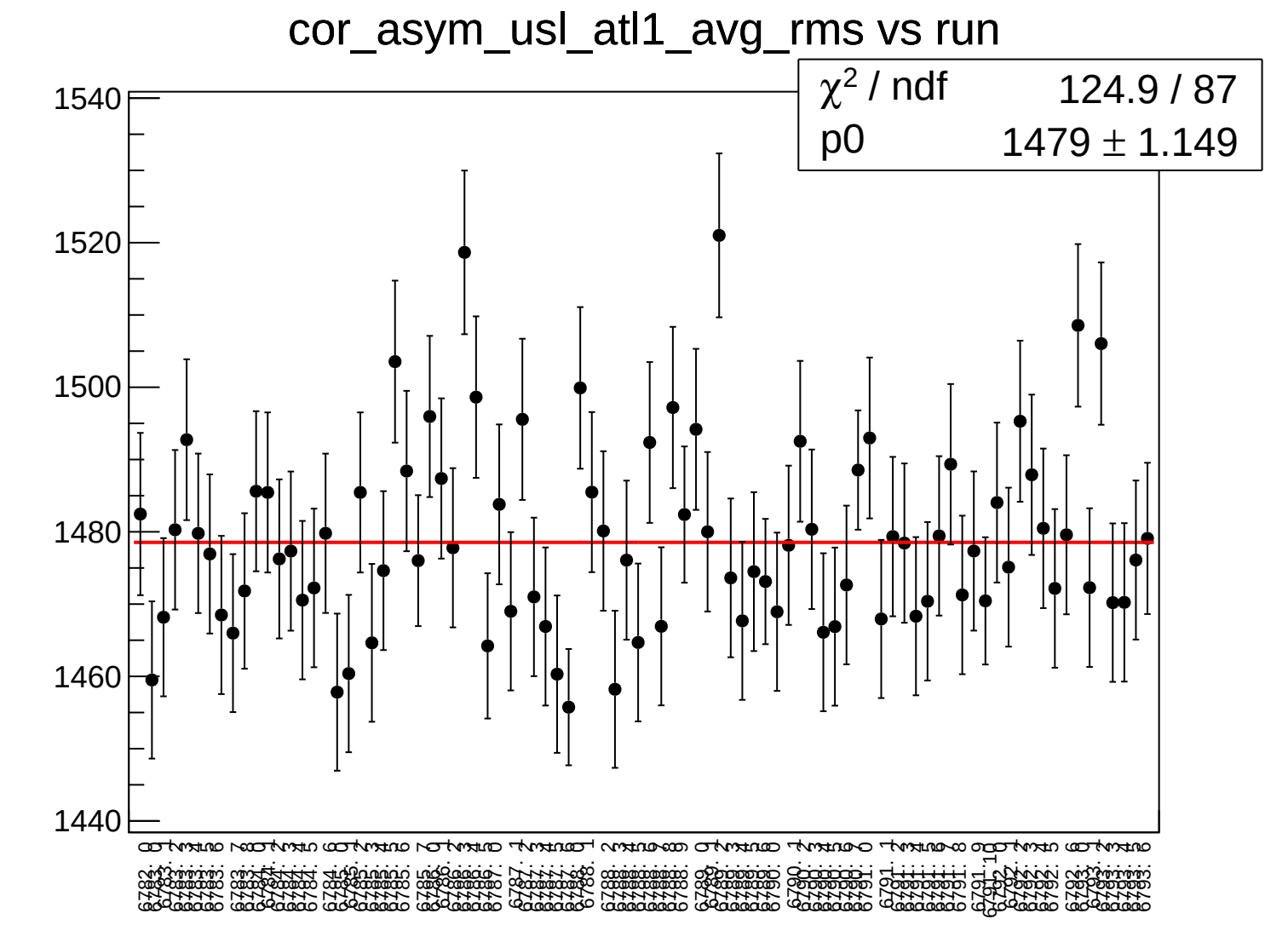

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 97.29 / 87
p0 −901.8 ± 812.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −36.66
Std Dev 0
2
1
0
−1
−2

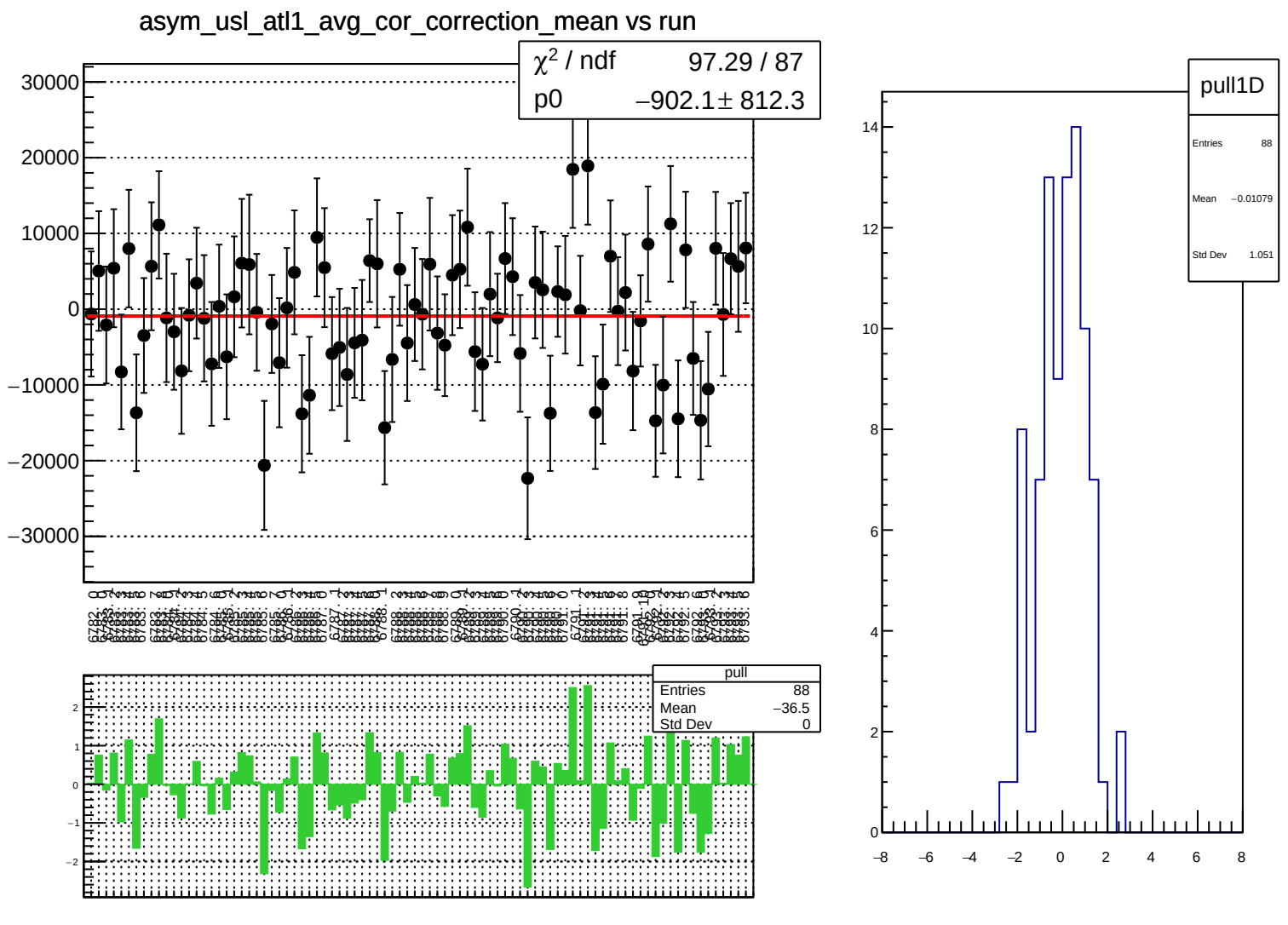

pull1D
Entries 88
Mean −0.01077
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

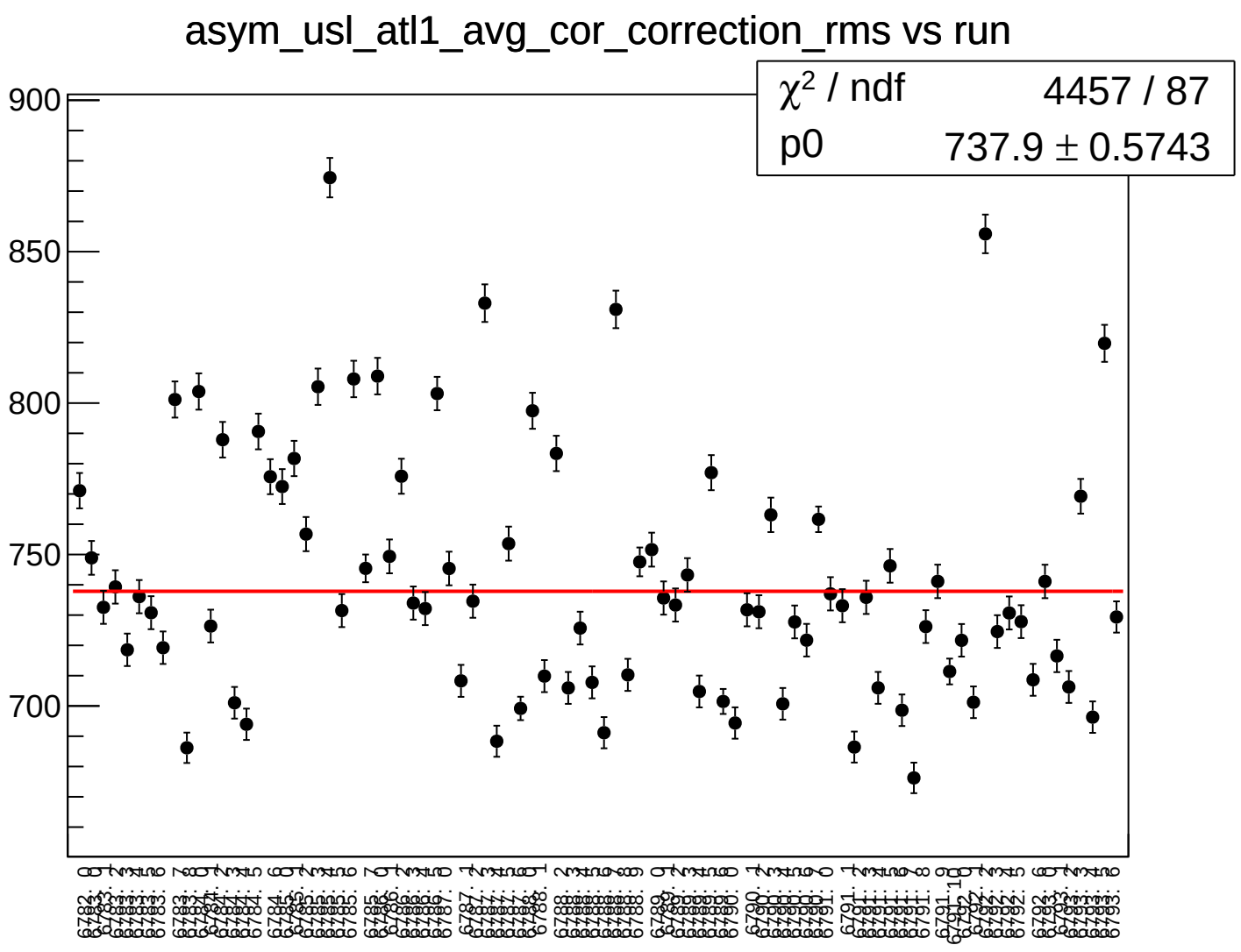

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 4456 / 87
p0 737.8 ± 0.5743
900
850
800
750
700

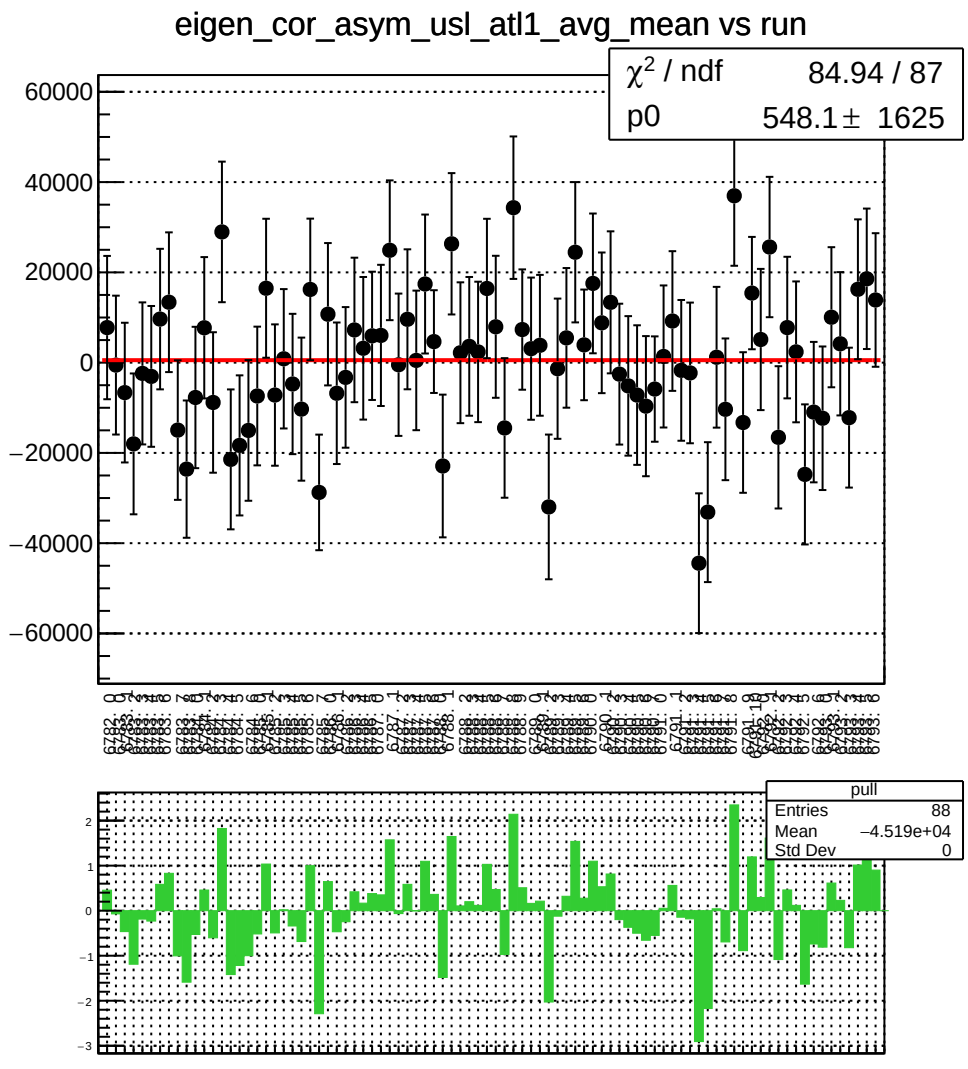

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.94 / 87
p0 548.1 ± 1625
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −4.519e+04
Std Dev 0
2
1
0
−1
−2
−3

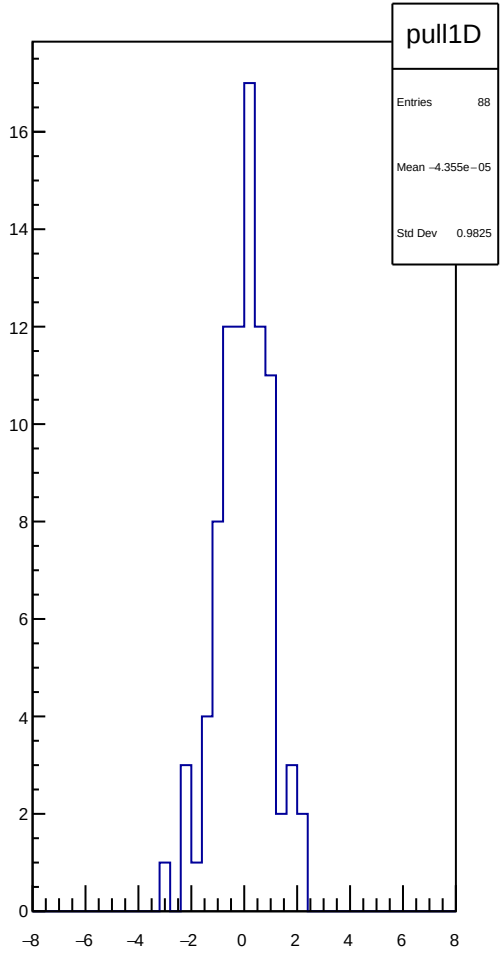

pull1D
Entries 88
Mean −4.355e−05
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

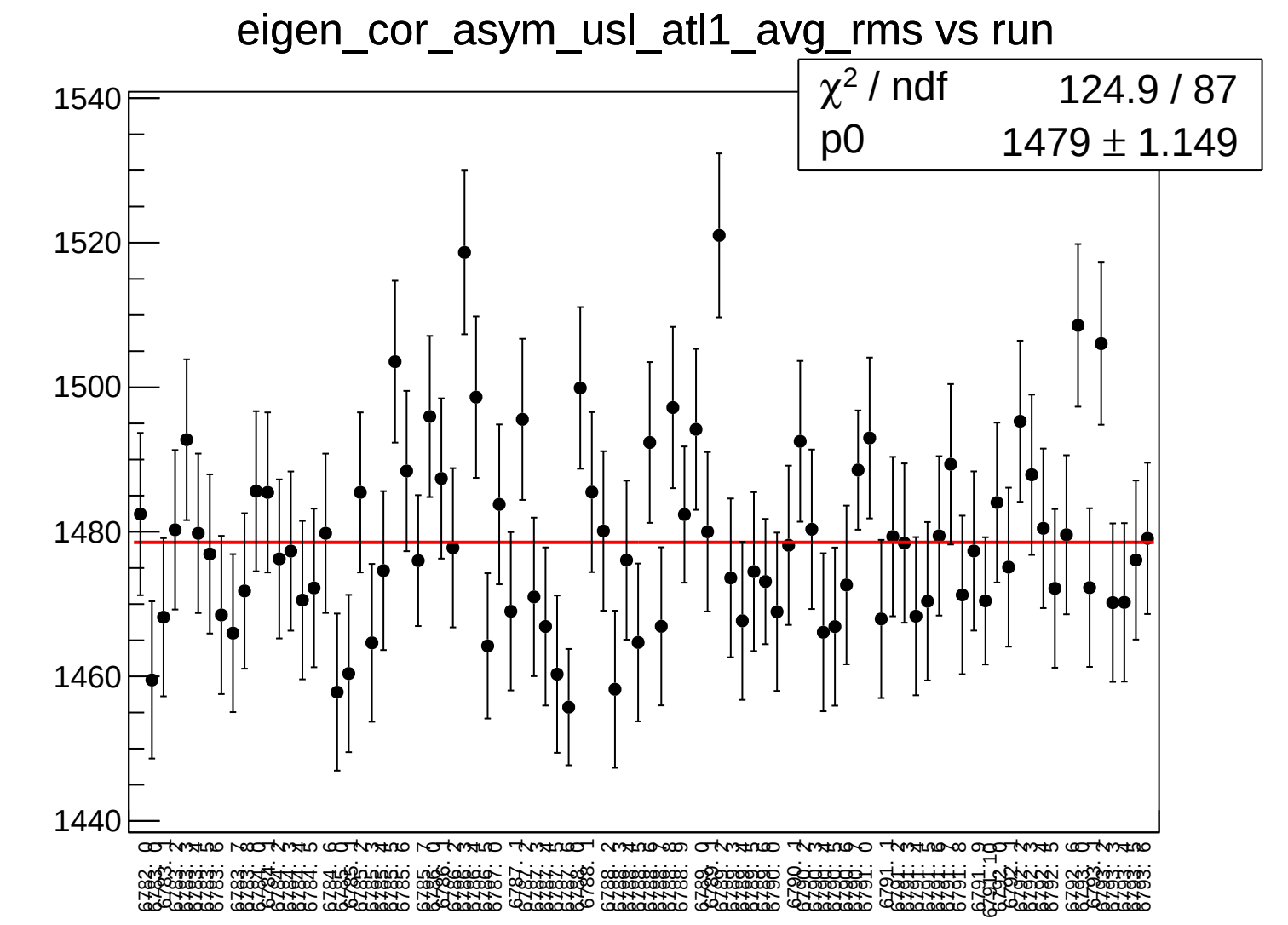

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 124.9 / 87
p0 1479 ± 1.149
1540
1520
1500
1480
1460
1440

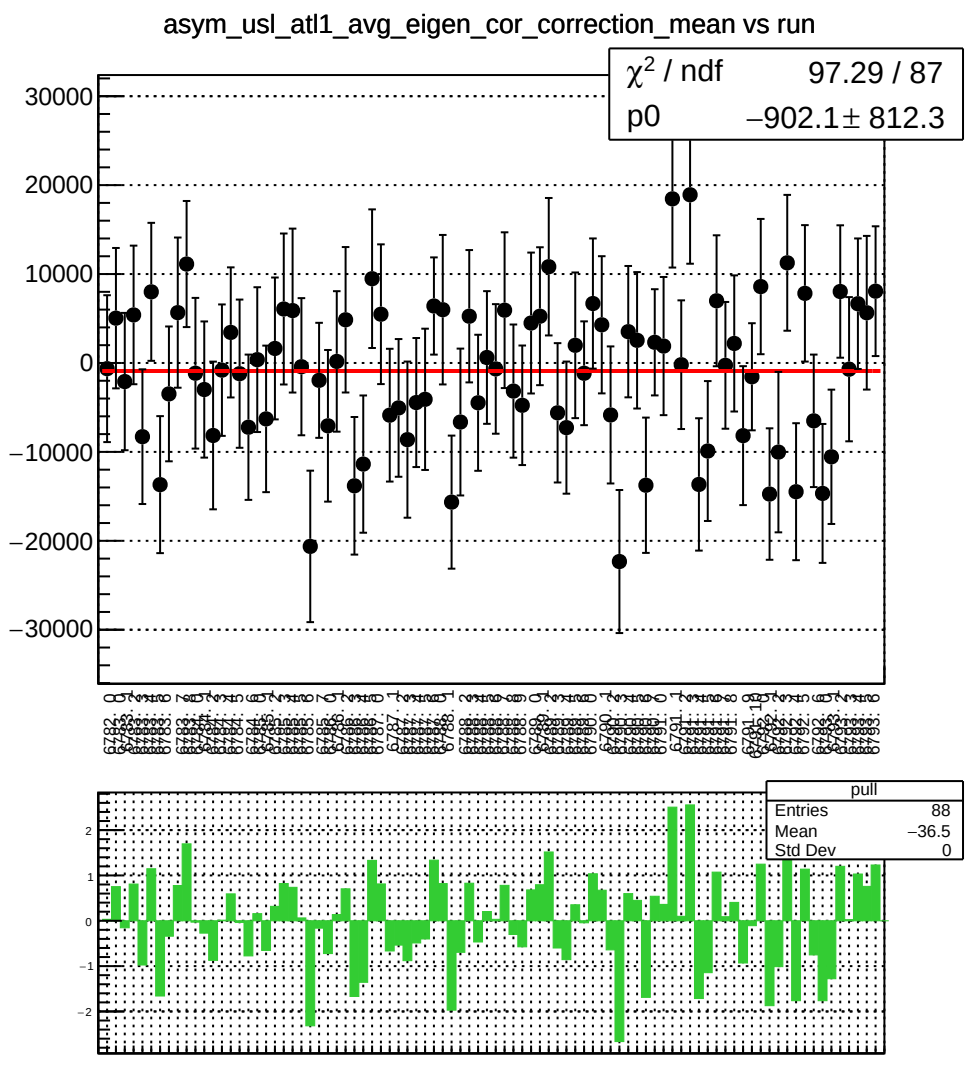

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 97.29 / 87
p0 −902.1 ± 812.3
pull
Entries 88
Mean −36.5
Std Dev 0
pull1D
Entries 88
Mean −0.01079
Std Dev 1.051

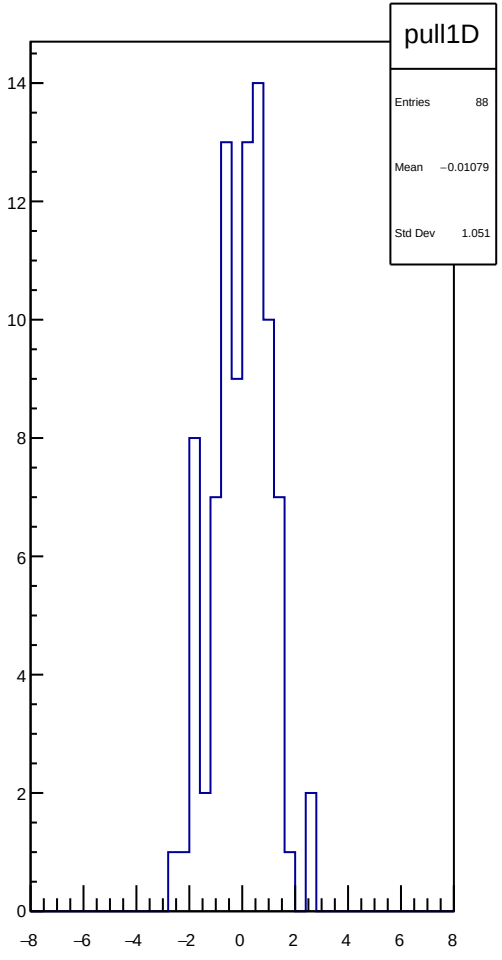

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 4457 / 87
p0 737.9 ± 0.5743
900
850
800
750
700

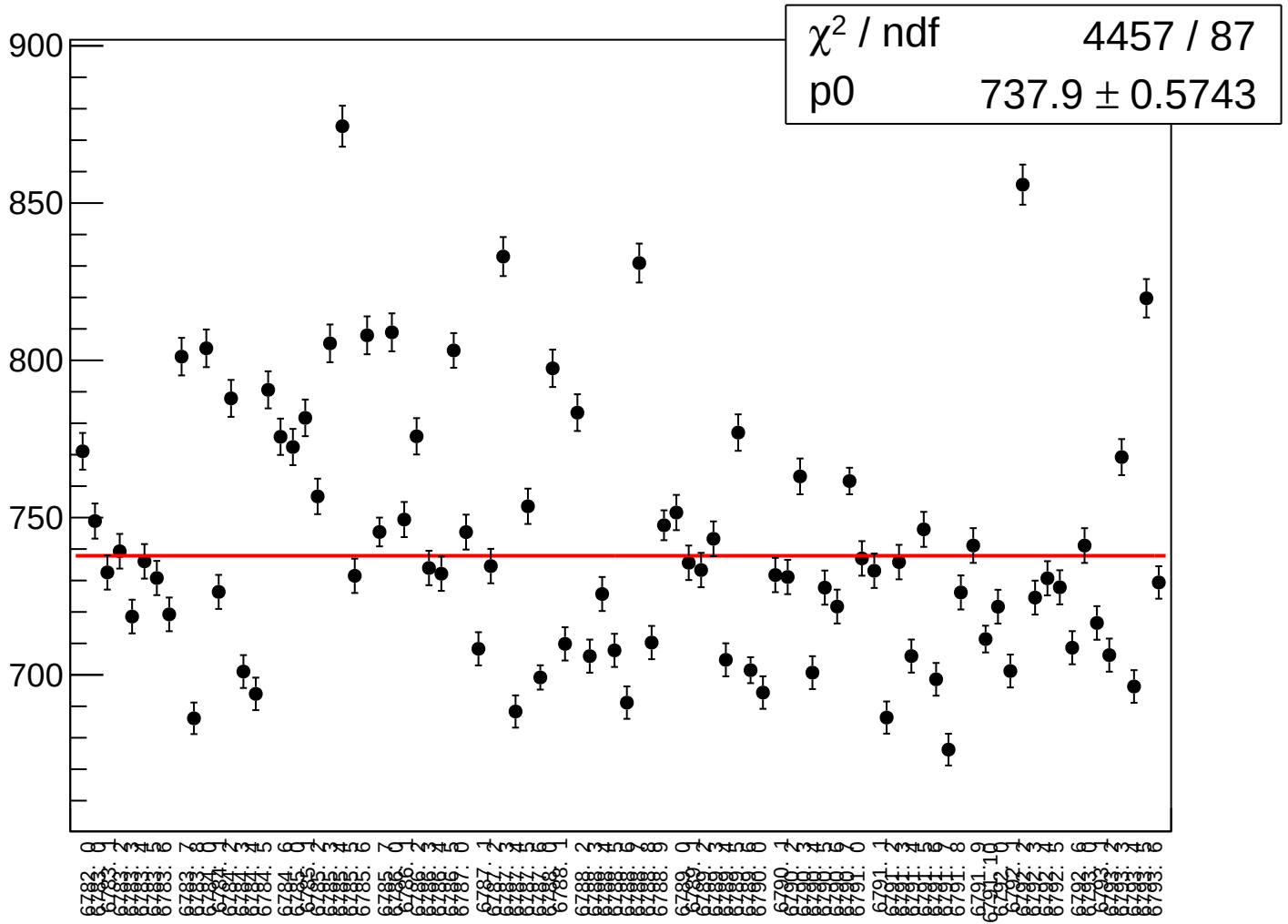

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.94 / 87
p0 548.1 ± 1625
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −4.519e+04
Std Dev 0
2
1
0
−1
−2
−3

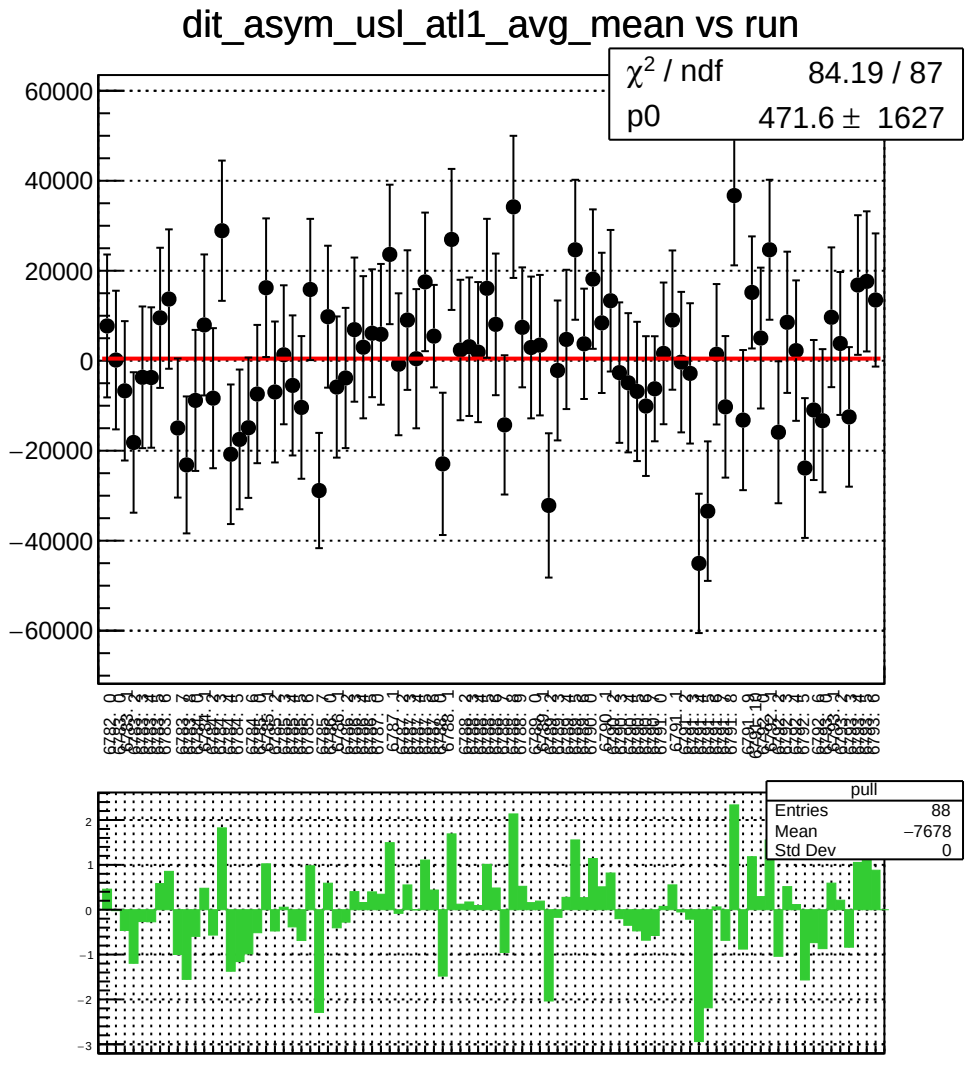

pull1D
Entries 88
Mean −4.355e−05
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

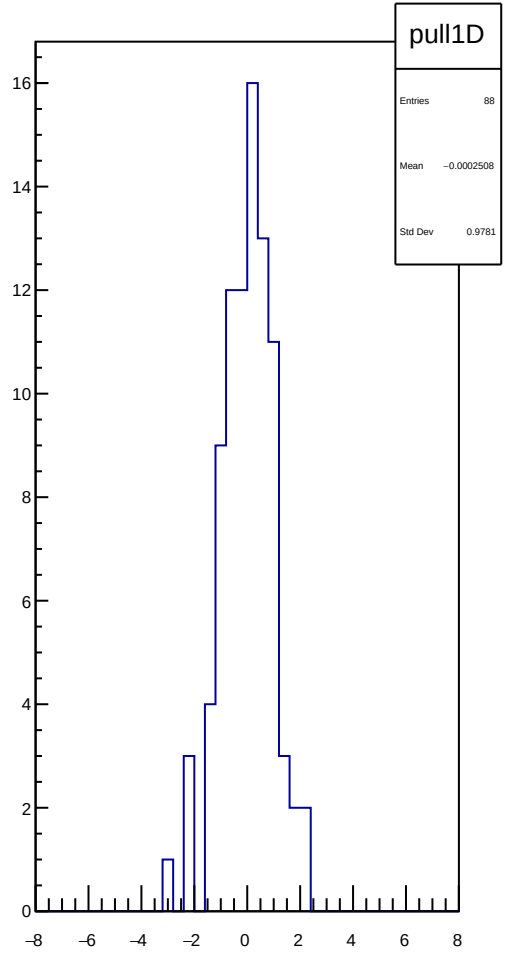

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 124.9 / 87
p0 1479 ± 1.149
1540
1520
1500
1480
1460
1440

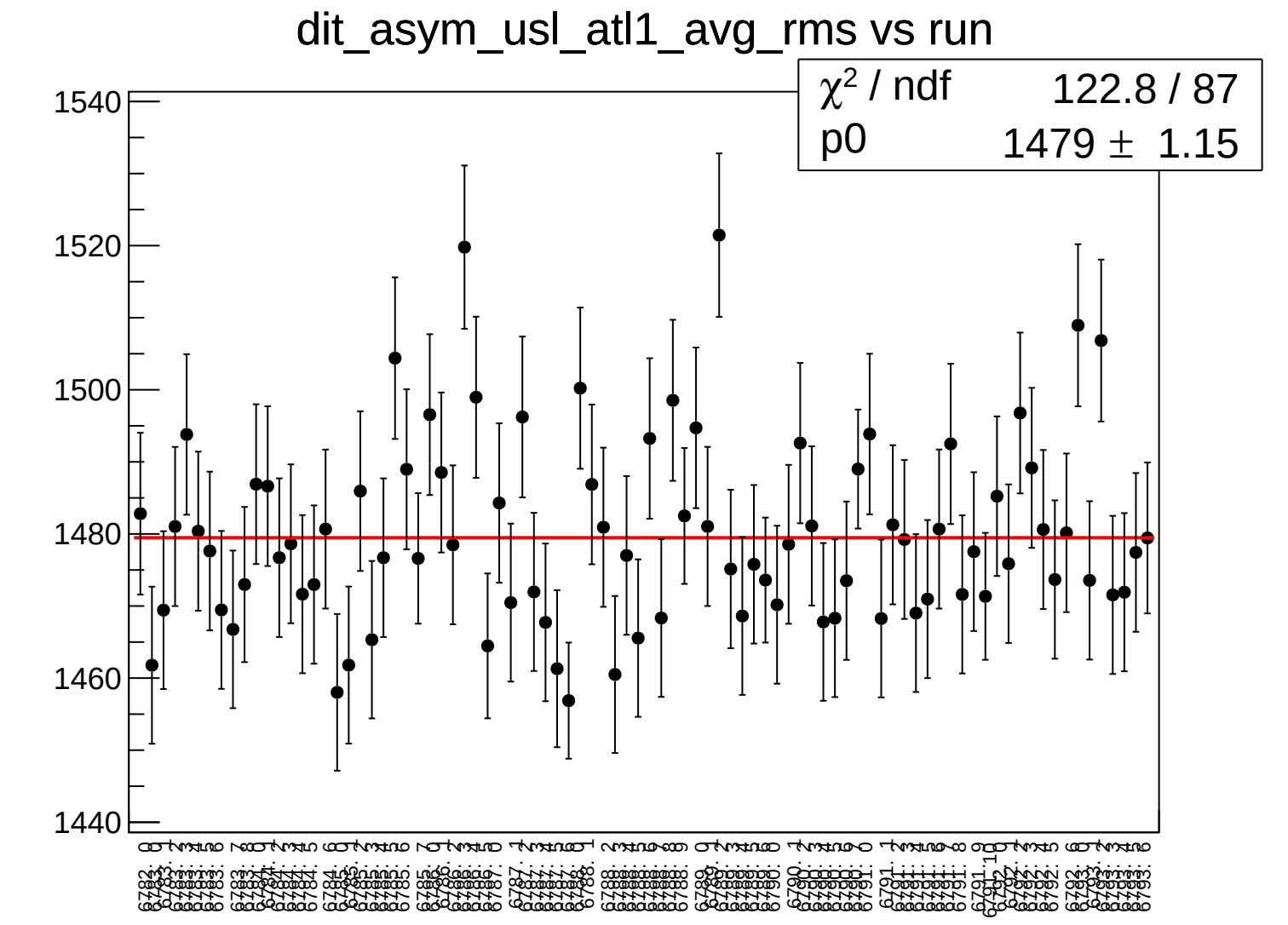

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.29 / 87
p0 −902.1 ± 812.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −36.5
Std Dev 0
2
1
0
−1
−2

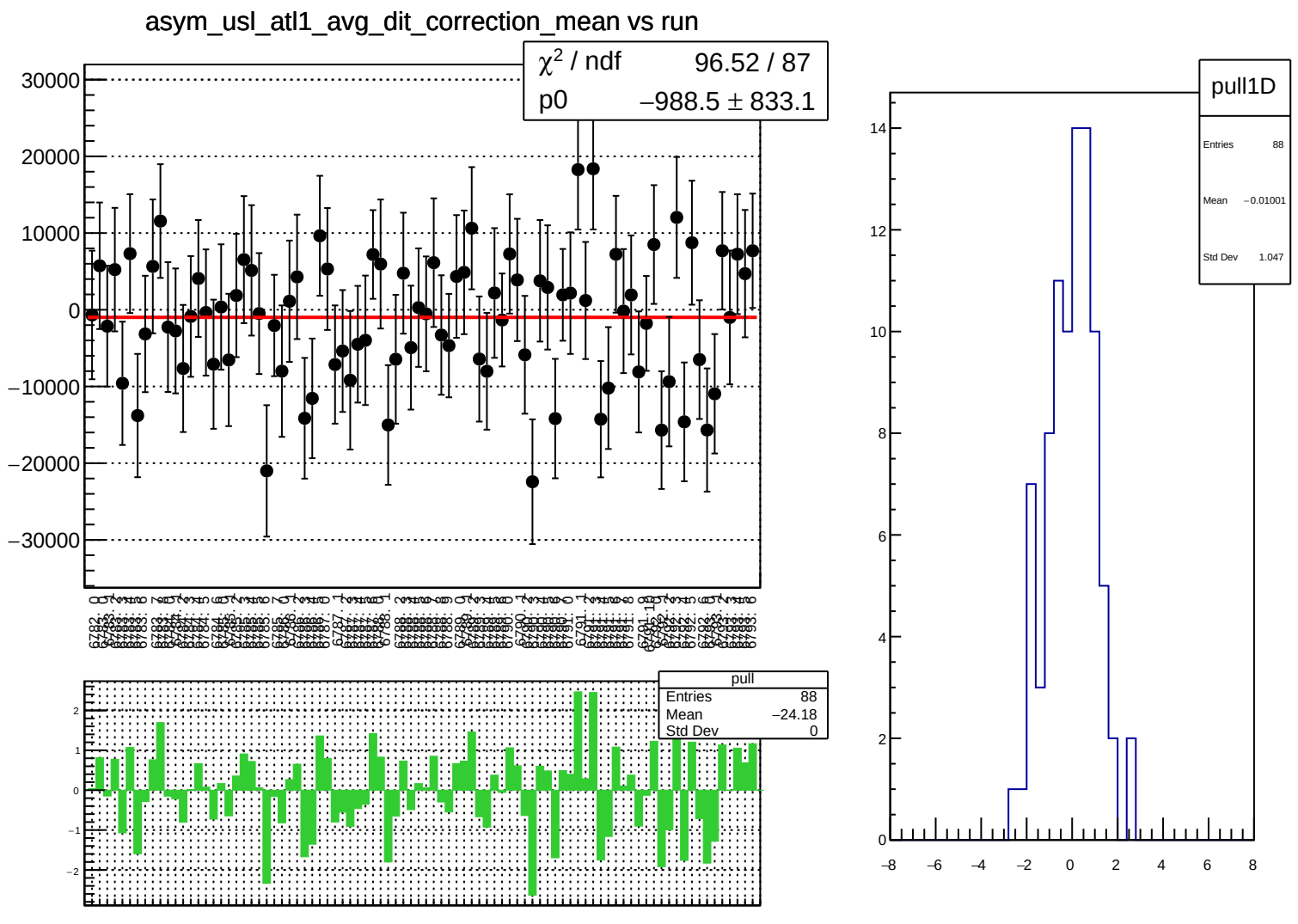

pull1D
Entries 88
Mean −0.01079
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

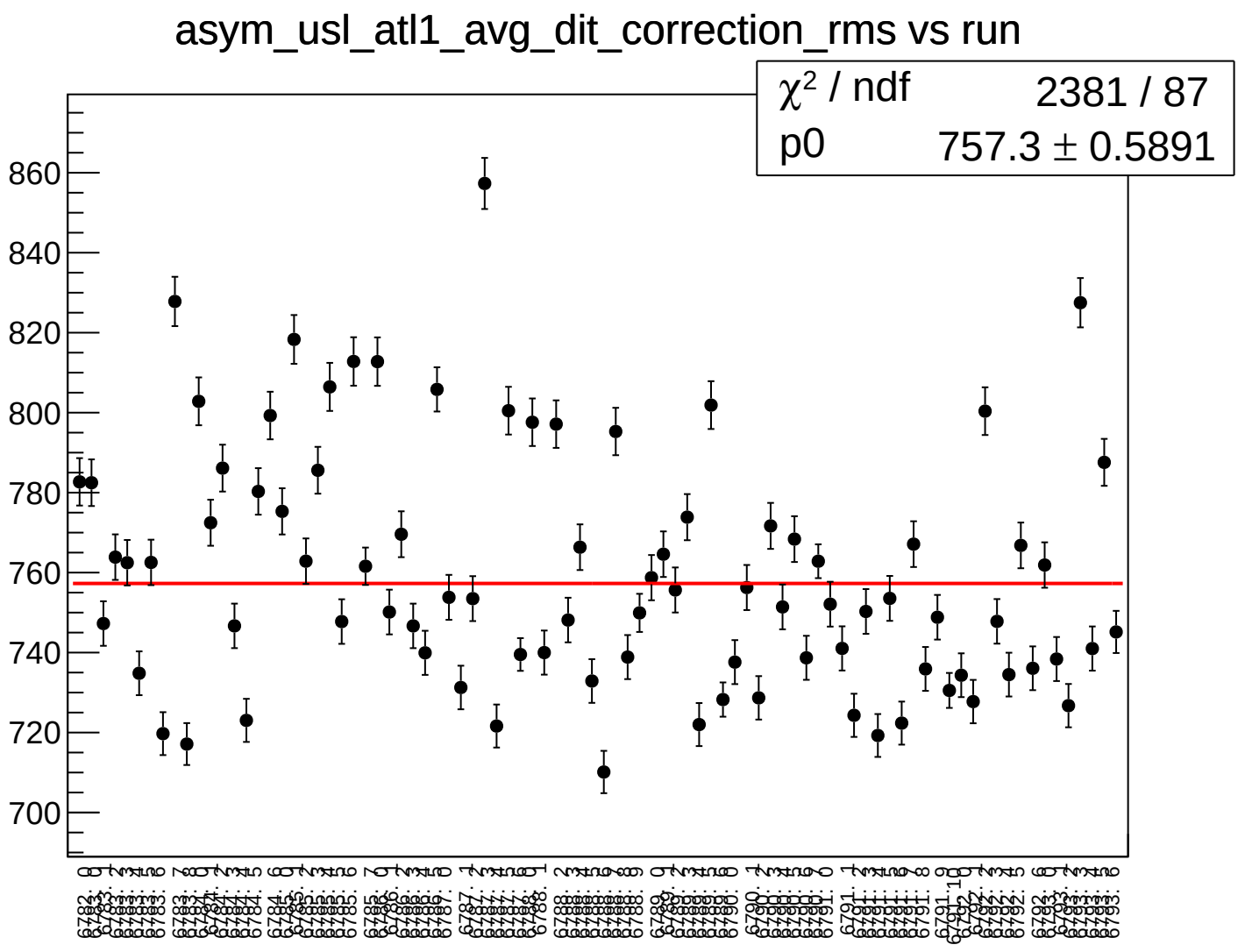

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4457 / 87
p0 737.9 ± 0.5743
900
850
800
750
700

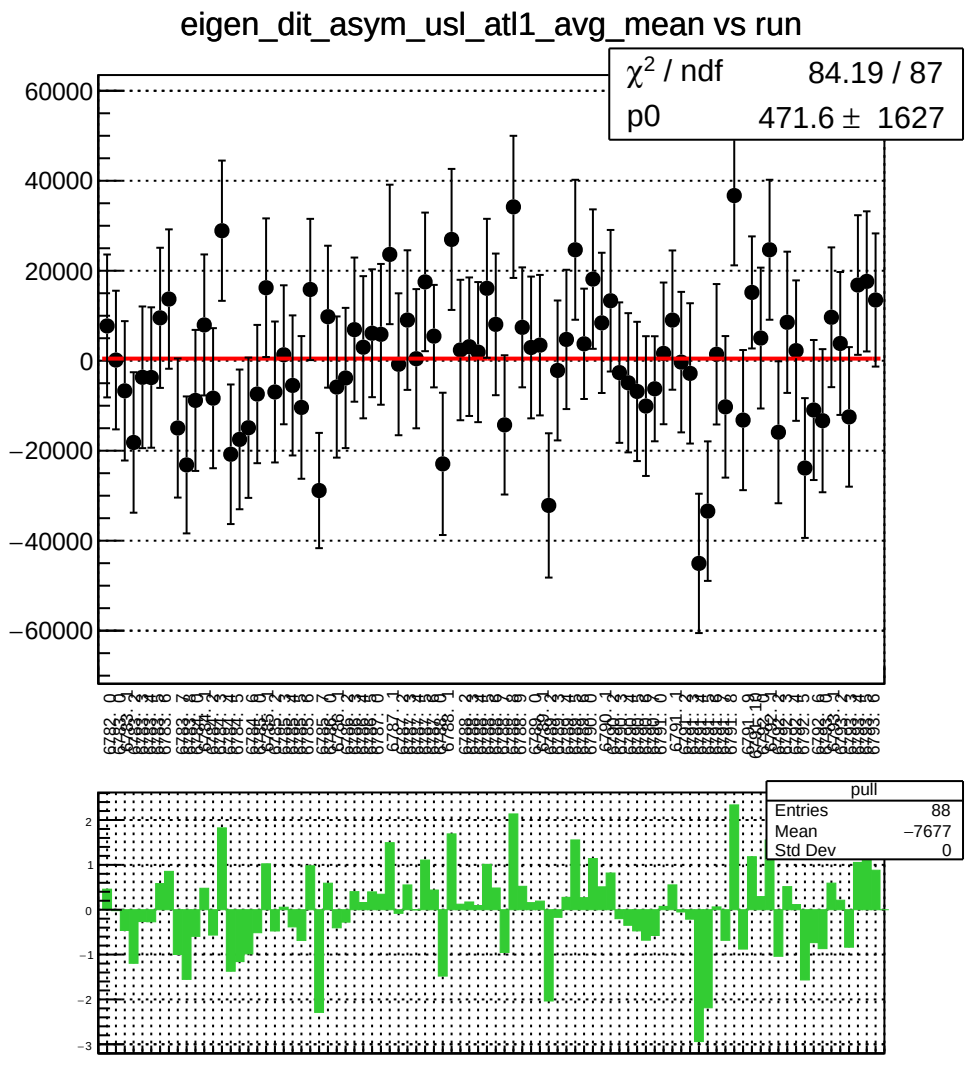

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.19 / 87
p0 471.6 ± 1627
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −7678
Std Dev 0
2
1
0
−1
−2
−3

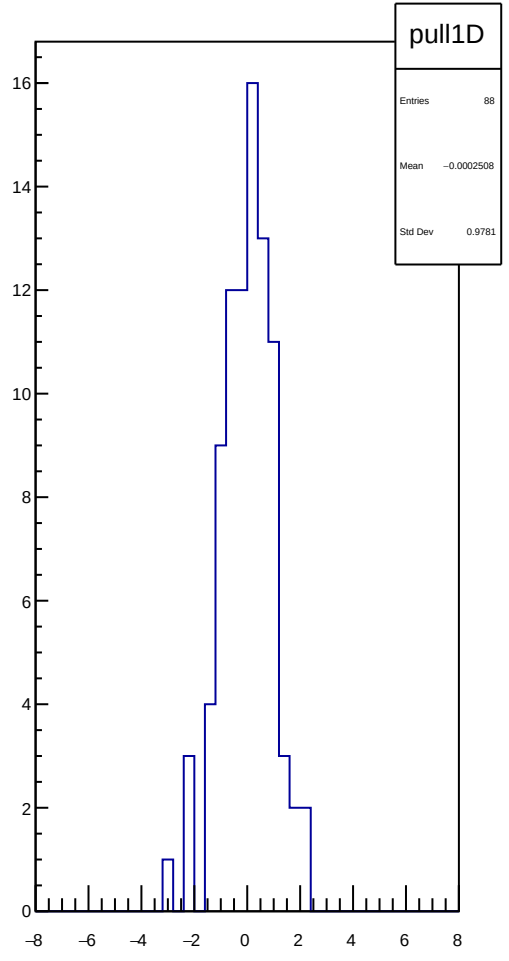

pull1D
Entries 88
Mean −0.0002508
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

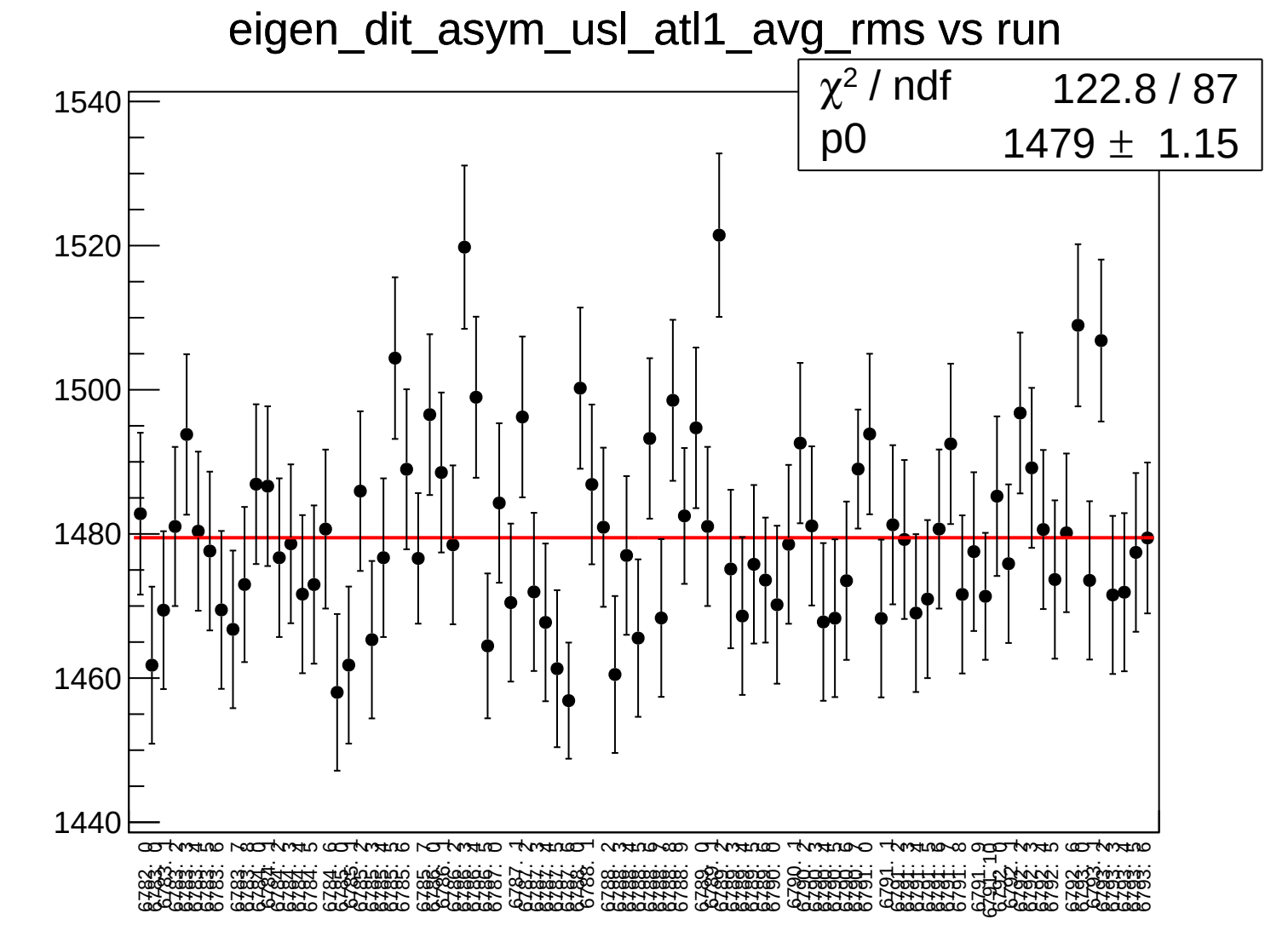

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 122.8 / 87
p0 1479 ± 1.15
1540
1520
1500
1480
1460
1440

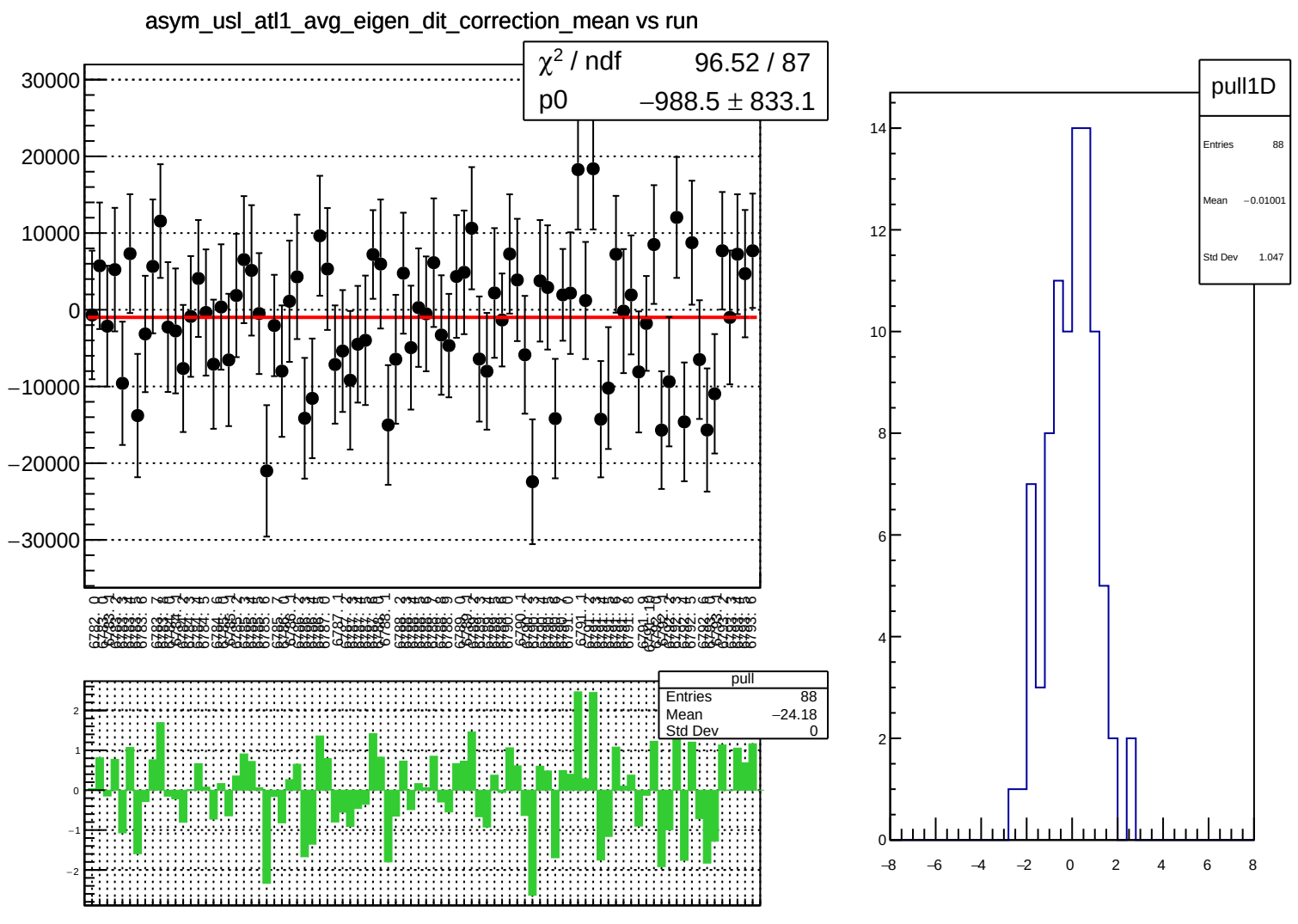

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 96.52 / 87
p0 −988.5 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −24.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01001
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

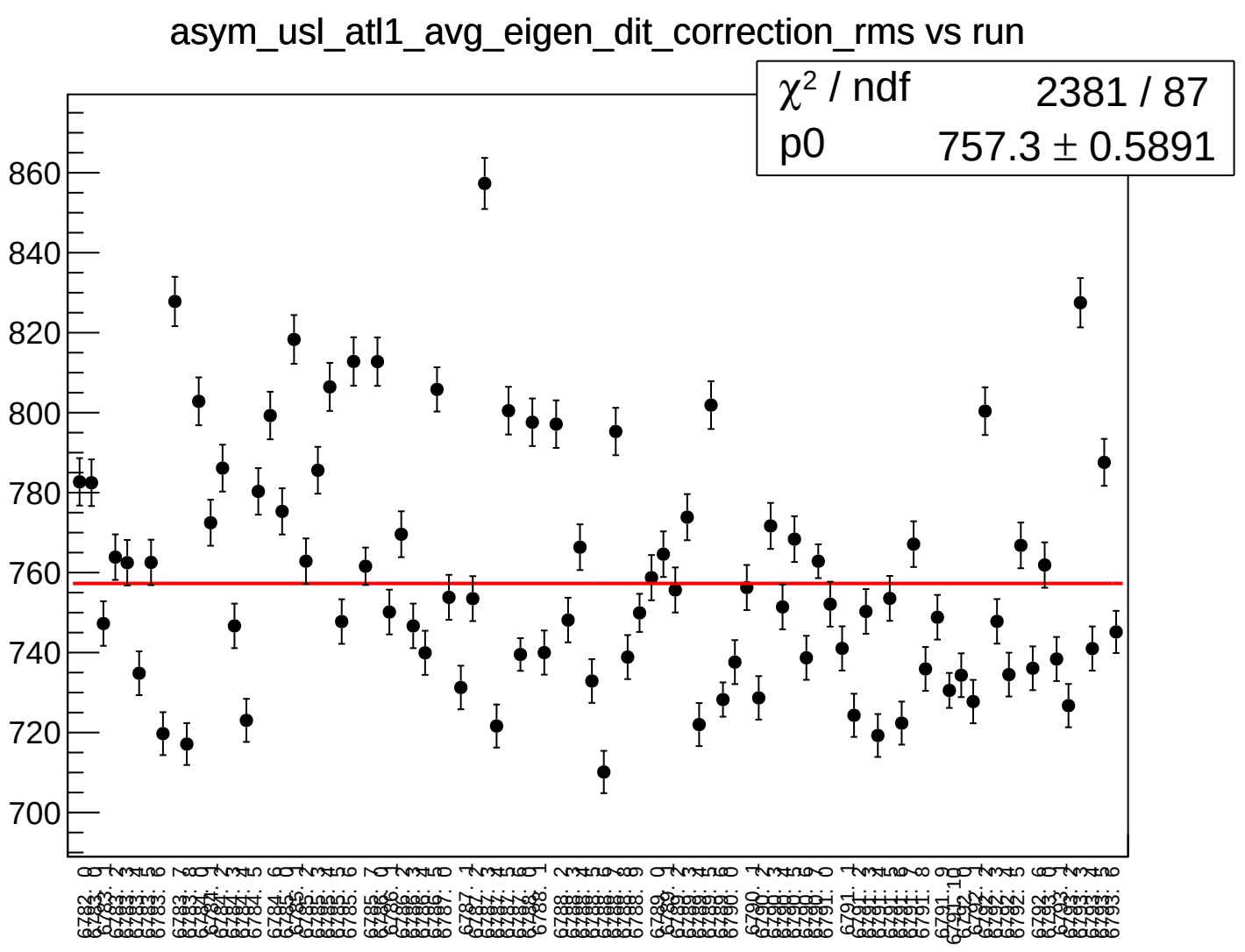

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2381 / 87
p0 757.3 ± 0.5891
860
840
820
800
780
760
740
720
700

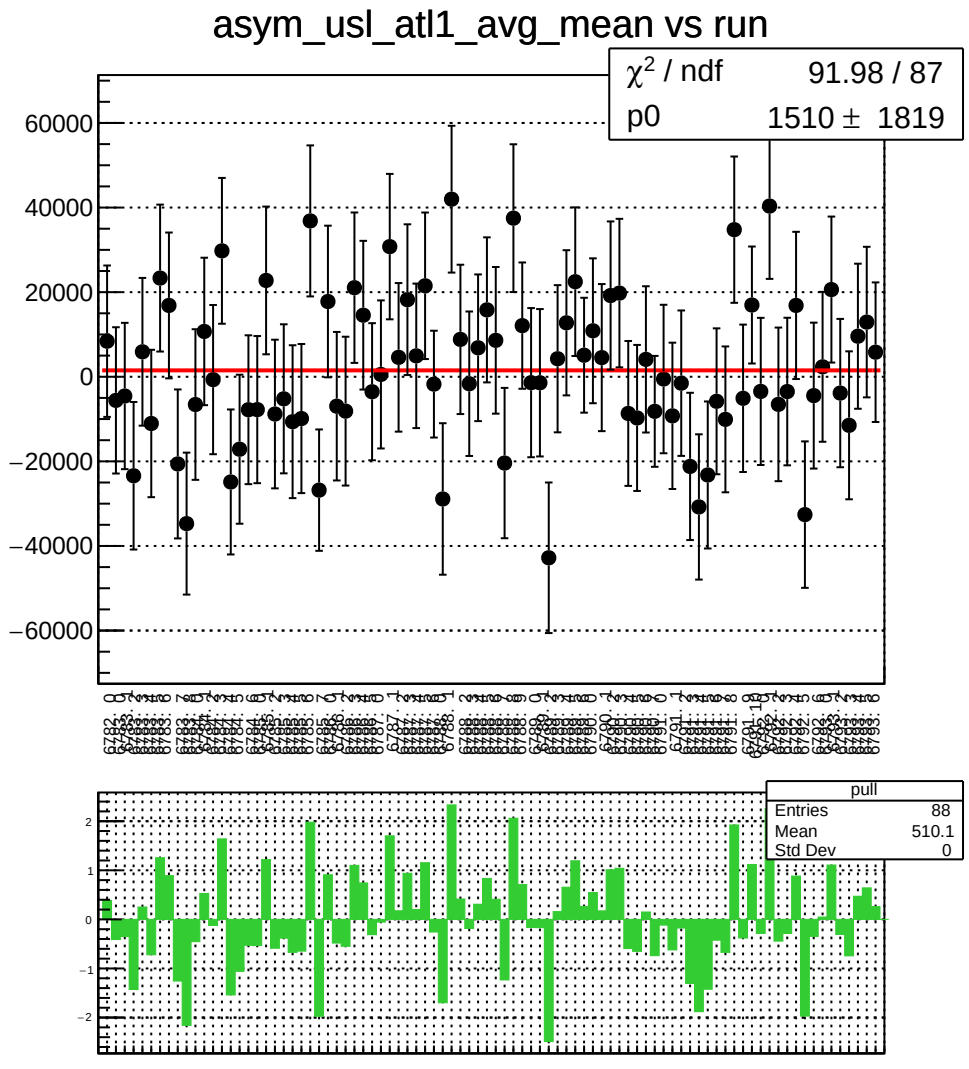

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.19 / 87
p0 471.6 ± 1627
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −7677
Std Dev 0
2
1
0
−1
−2
−3

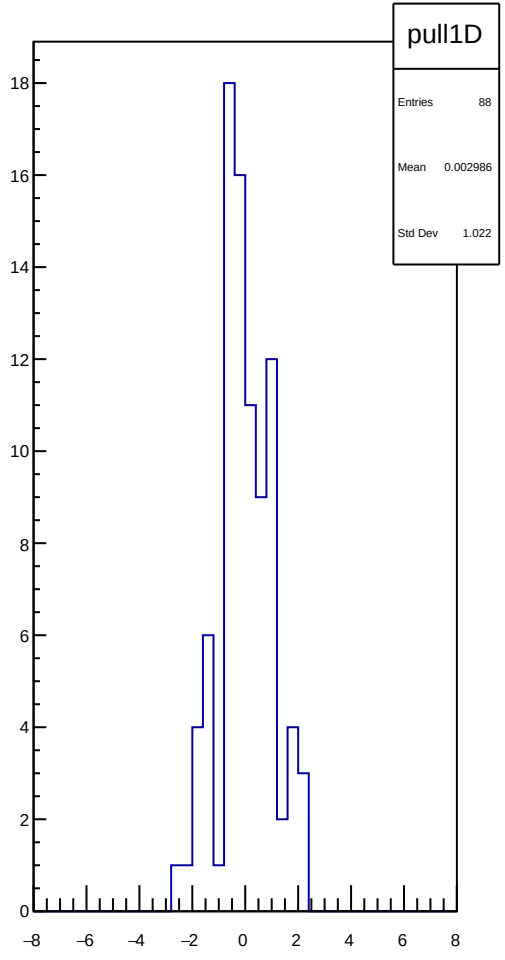

pull1D
Entries 88
Mean −0.0002508
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

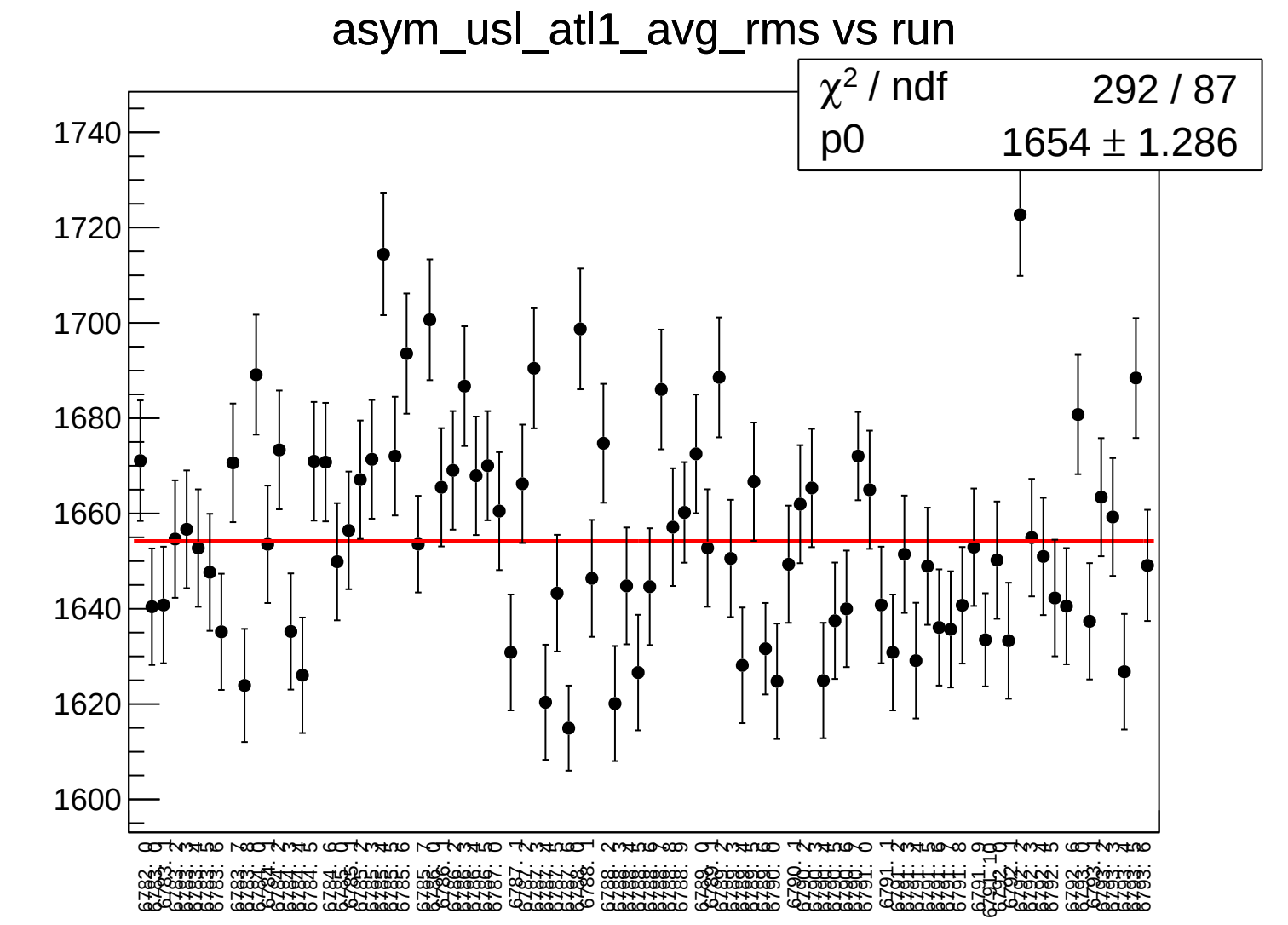

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 122.8 / 87
p0 1479 ± 1.15
1540
1520
1500
1480
1460
1440

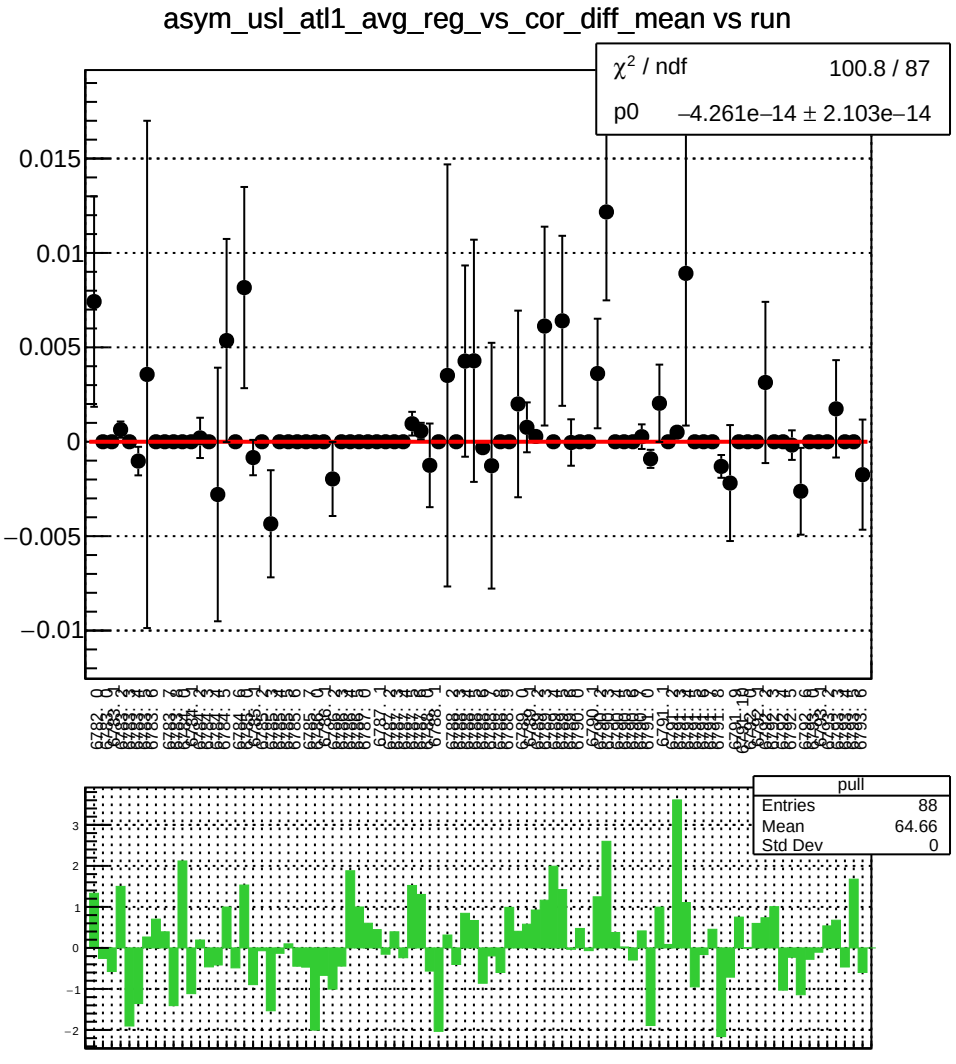

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.52 / 87
p0 −988.5 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −24.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01001
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

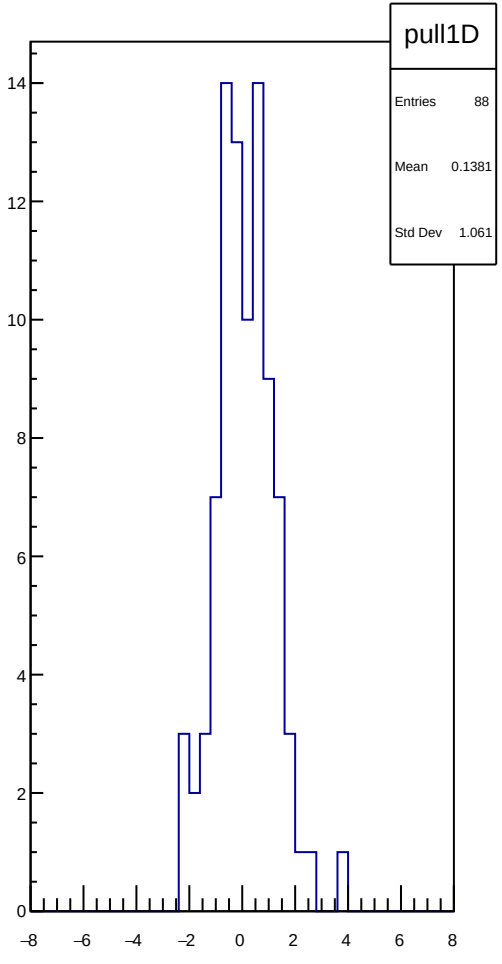

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2381 / 87
p0 757.3 ± 0.5891
860
840
820
800
780
760
740
720
700

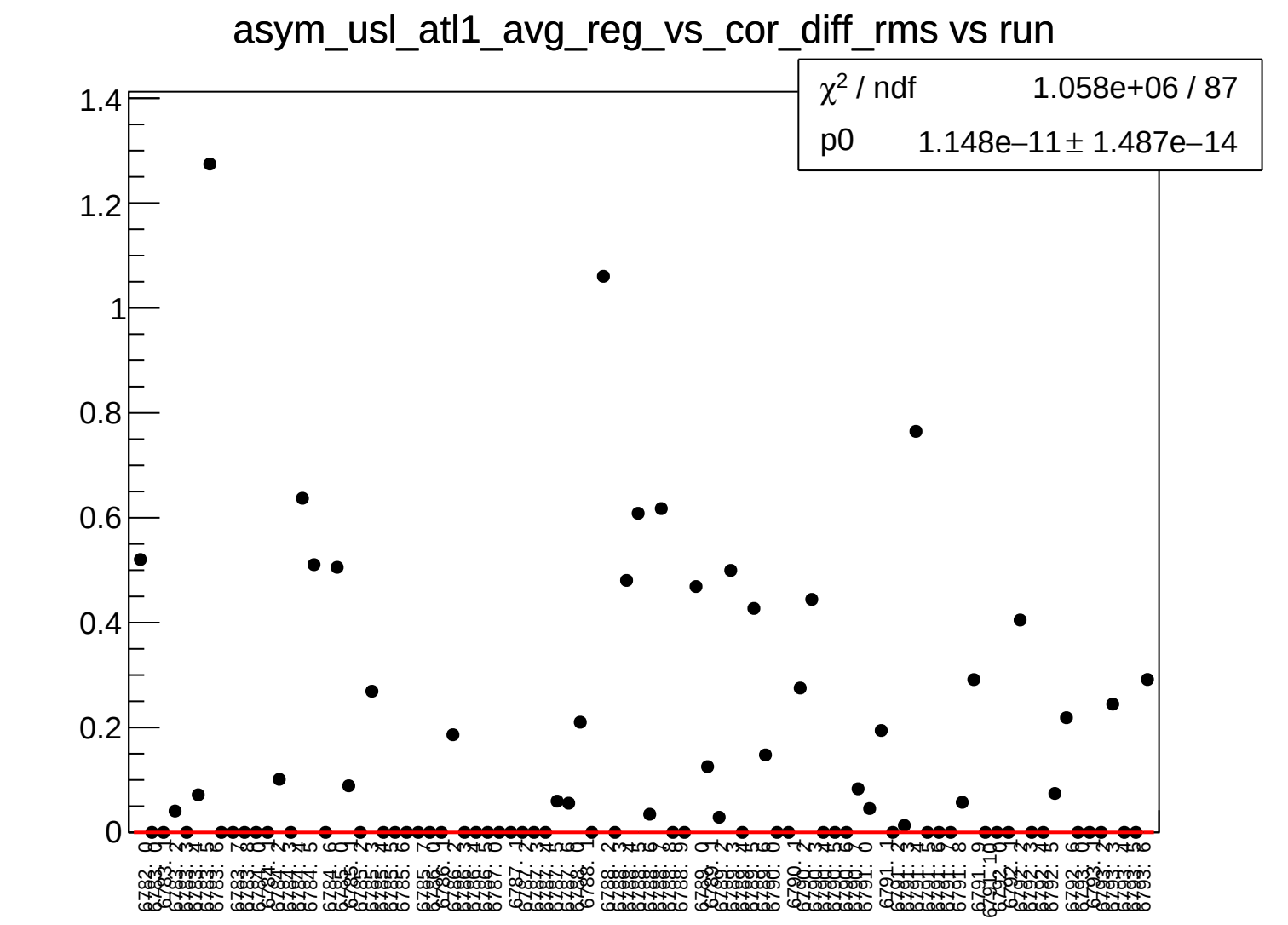

asym_usl_atl1_avg_mean vs run
χ² / ndf 91.98 / 87
p0 1510 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 510.1
Std Dev 0
2
1
0
−1
−2

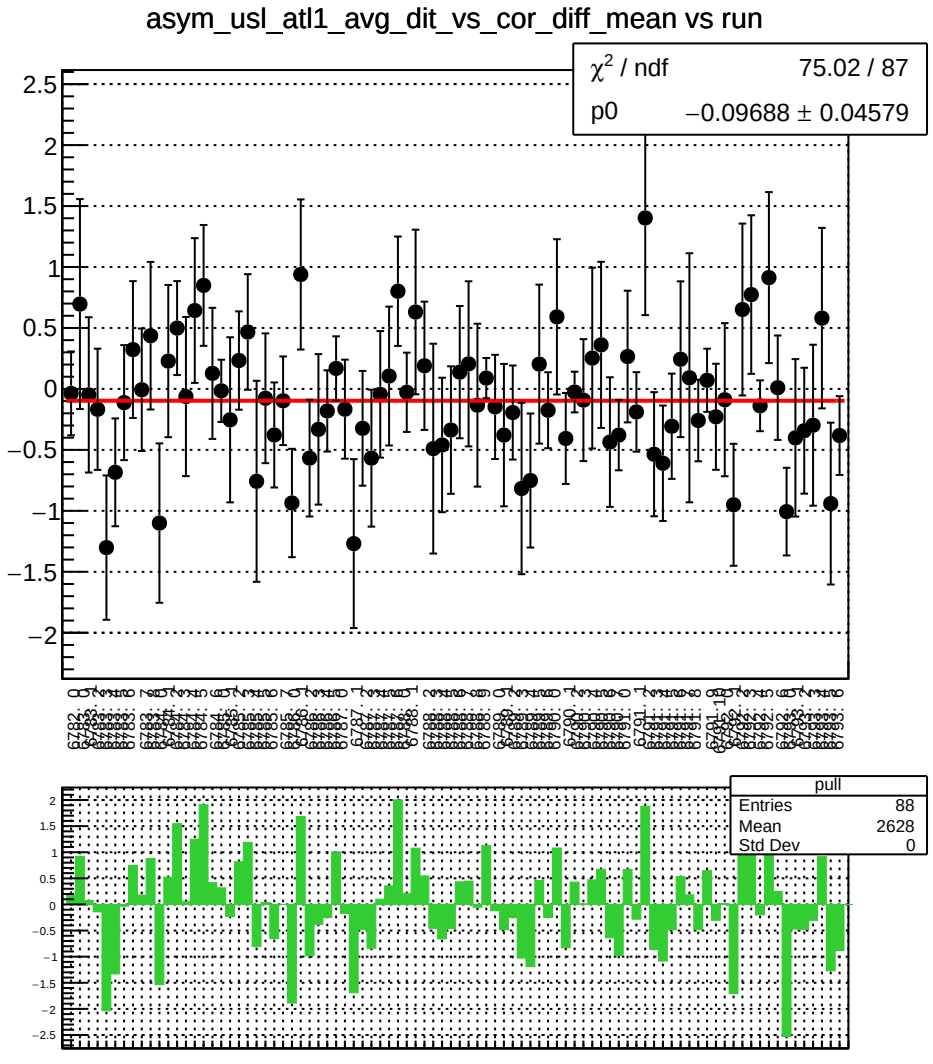

pull1D
Entries 88
Mean 0.002986
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

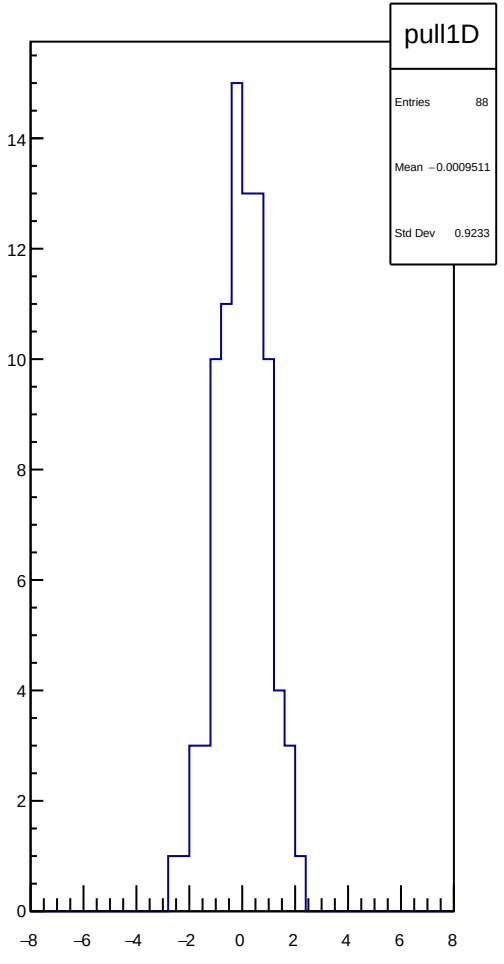

asym_usl_atl1_avg_rms vs run
χ^2 / ndf 292 / 87
p0 1654 ± 1.286
1740
1720
1700
1680
1660
1640
1620
1600

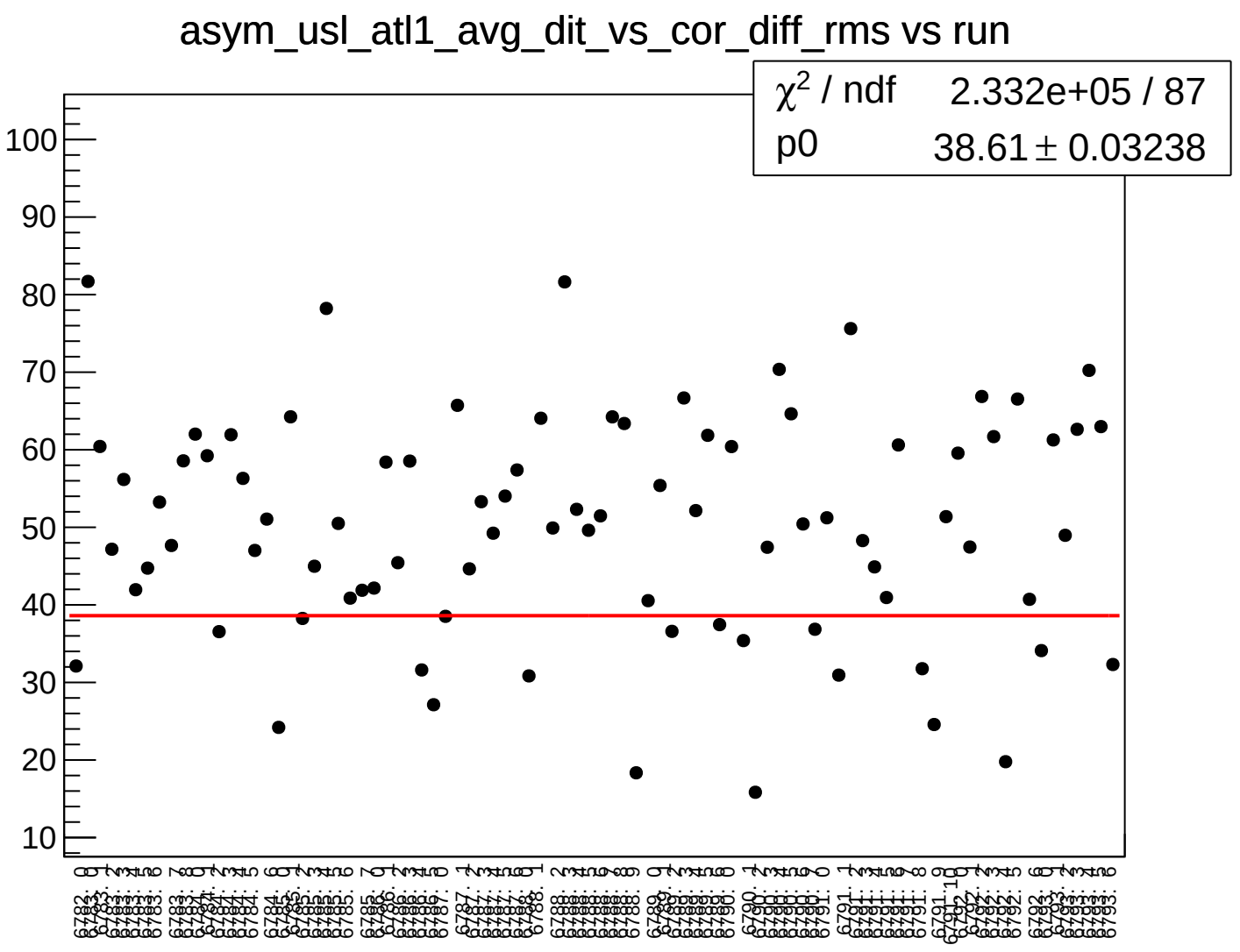

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 87
p0 −4.261e−14 ± 2.103e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 64.66
Std Dev 0
3
2
1
0
−1
−2

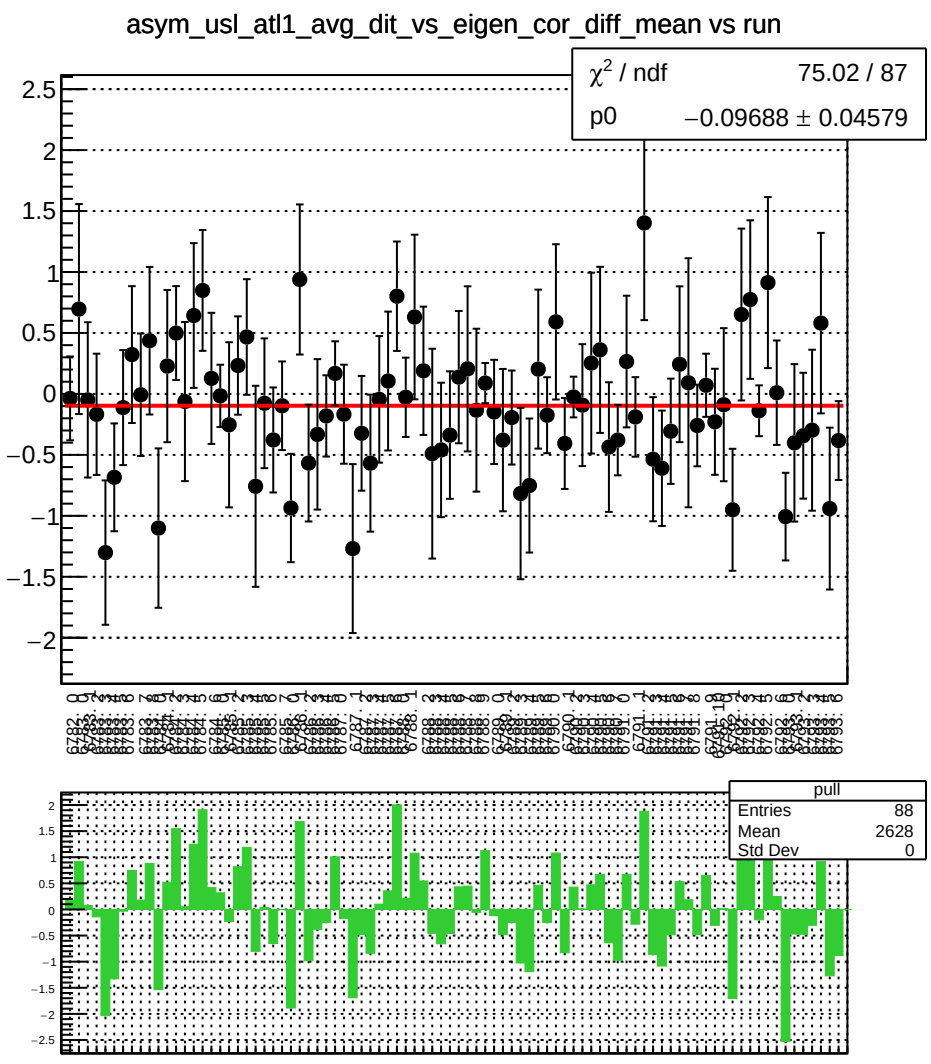

pull1D
Entries 88
Mean 0.1381
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

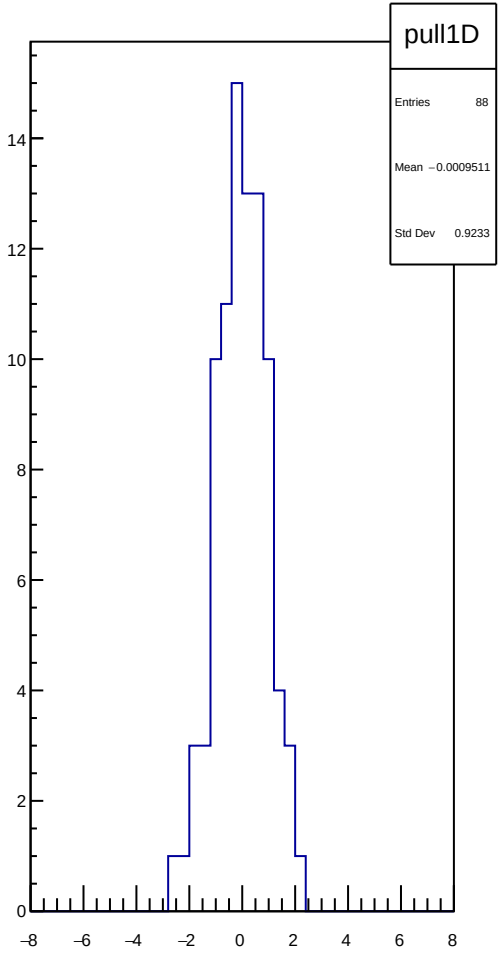

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 87
p0 1.148e−11 ± 1.487e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

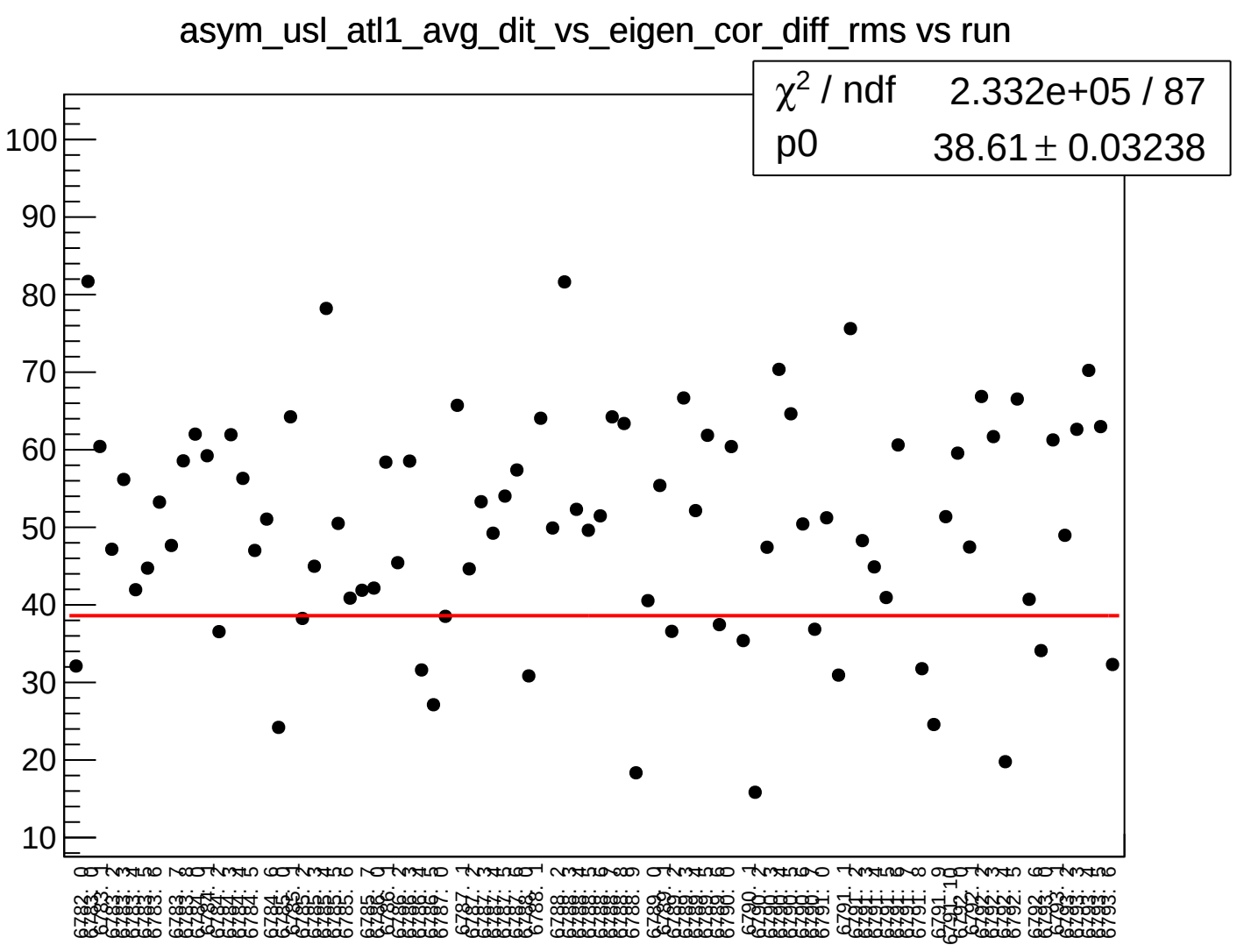

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.02 / 87
p0 −0.09688 ± 0.04579
pull
Entries 88
Mean 2628
Std Dev 0

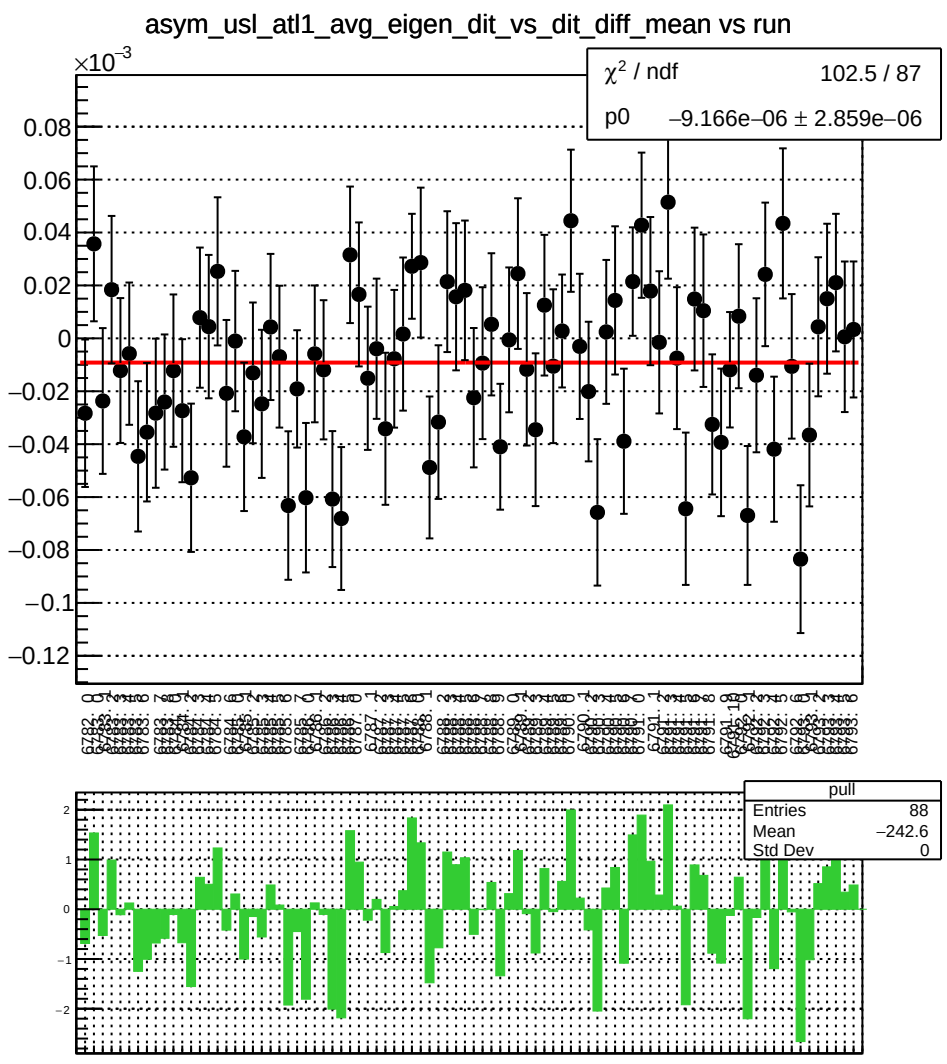

pull1D
Entries 88
Mean −0.0009511
Std Dev 0.9233

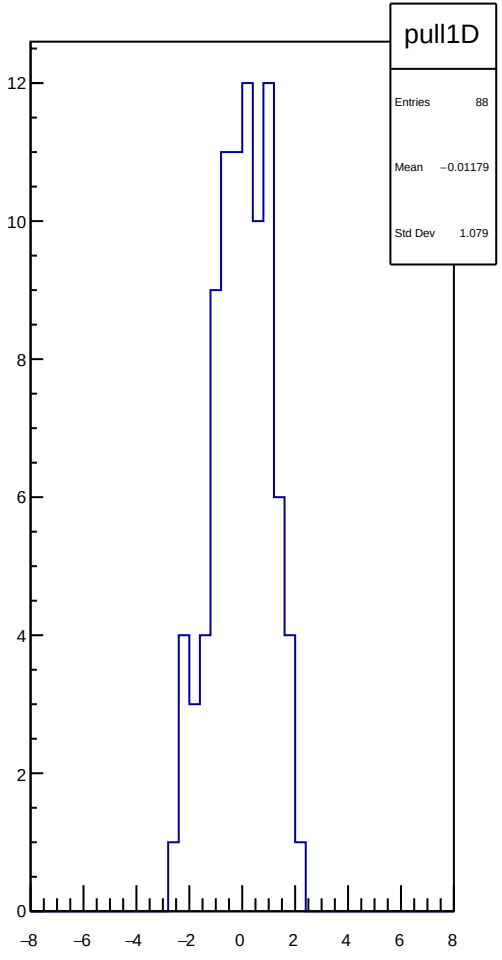

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.332e+05 / 87
p0 38.61 ± 0.03238
100
90
80
70
60
50
40
30
20
10

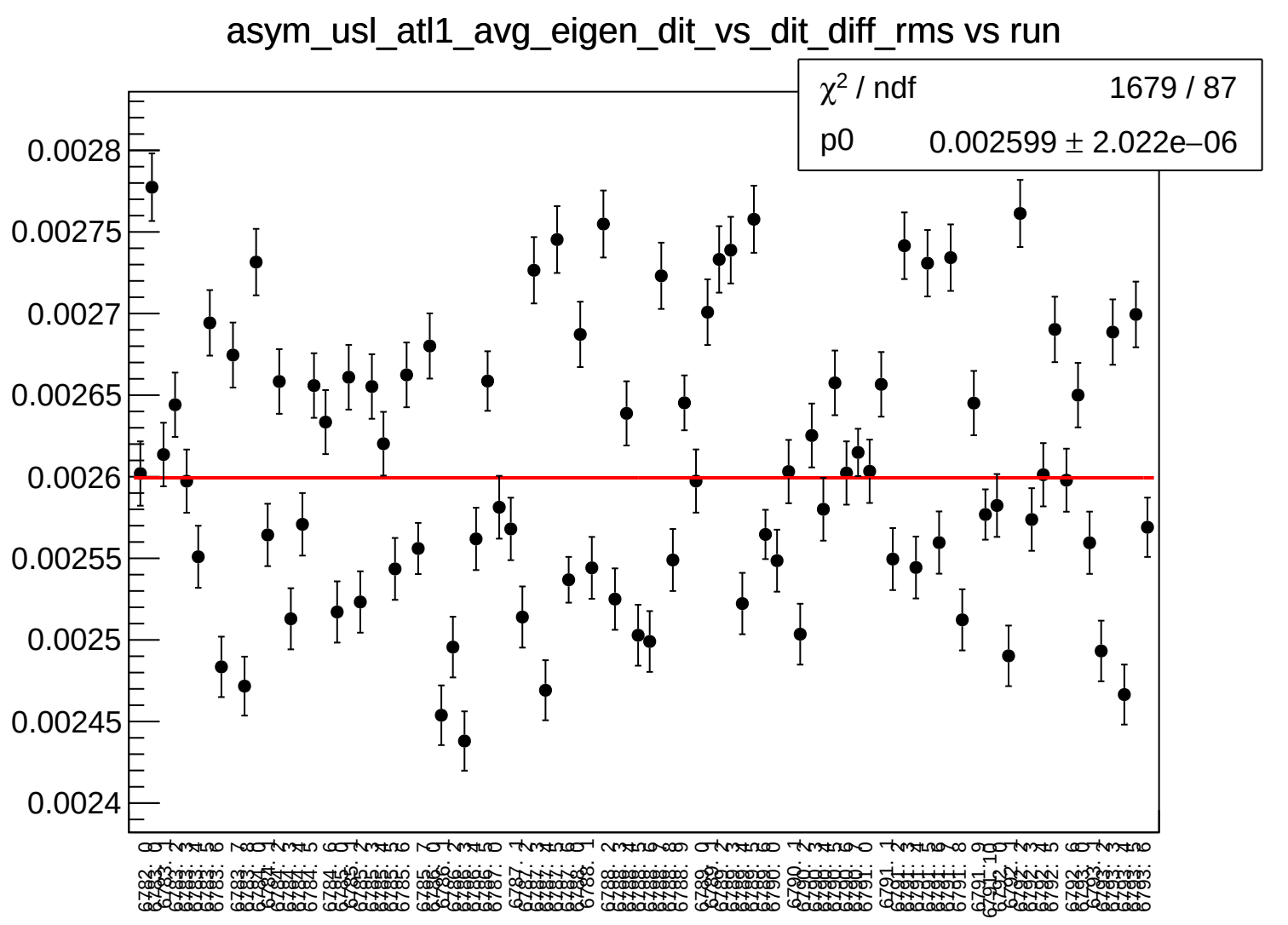

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.02 / 87
p0 −0.09688 ± 0.04579
pull
Entries 88
Mean 2628
Std Dev 0

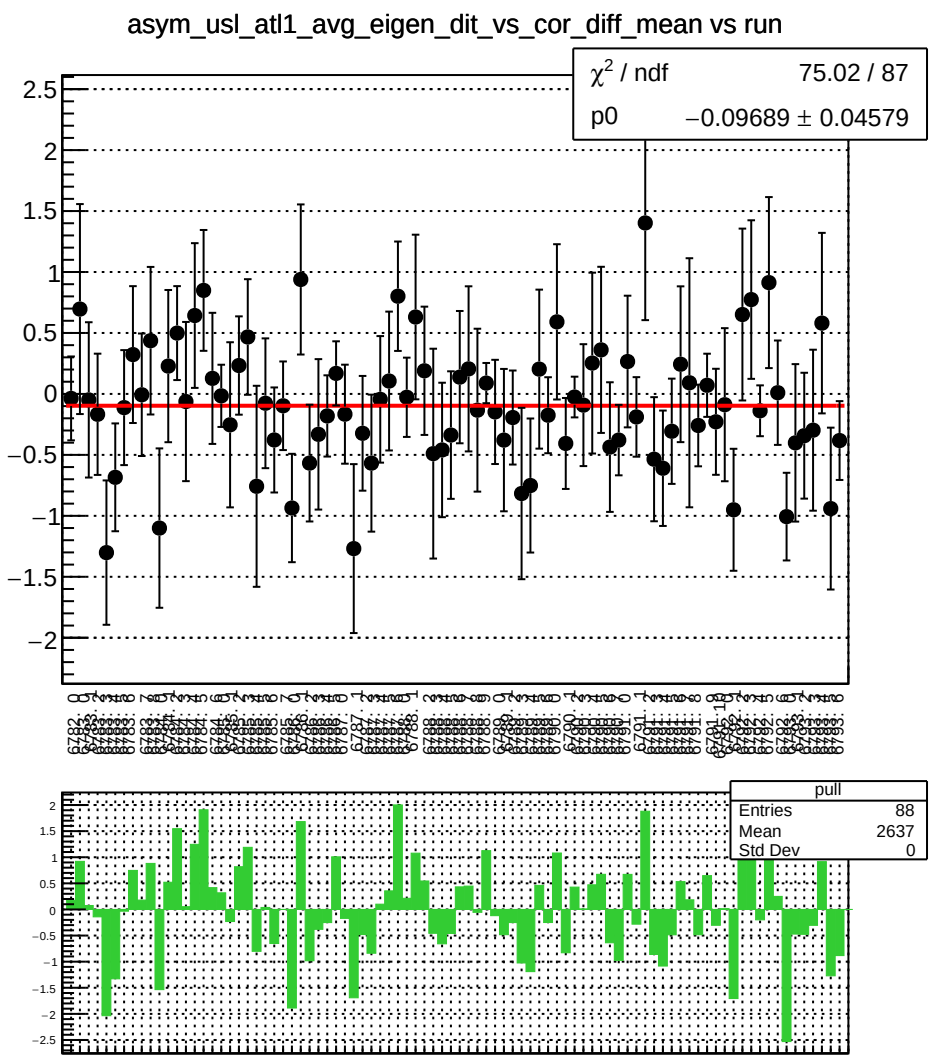

pull1D
Entries 88
Mean −0.0009511
Std Dev 0.9233

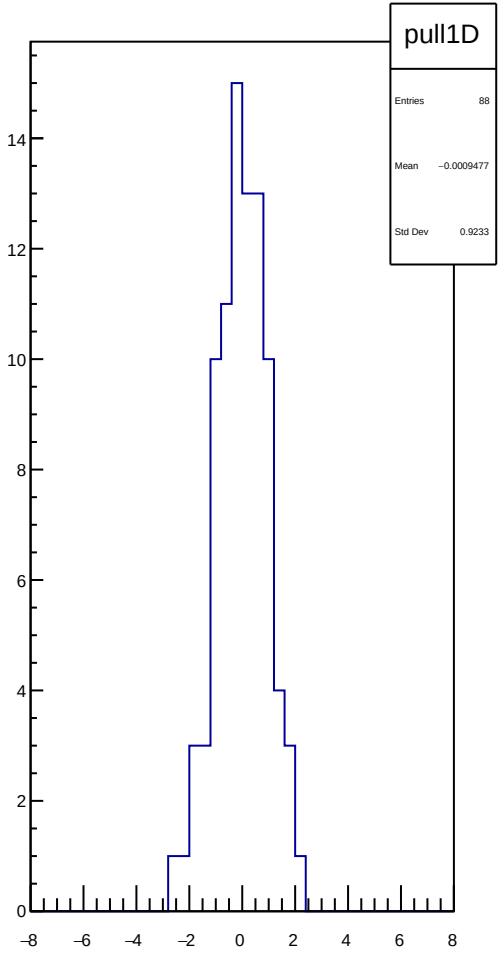

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.332e+05 / 87
p0 38.61 ± 0.03238
100
90
80
70
60
50
40
30
20
10

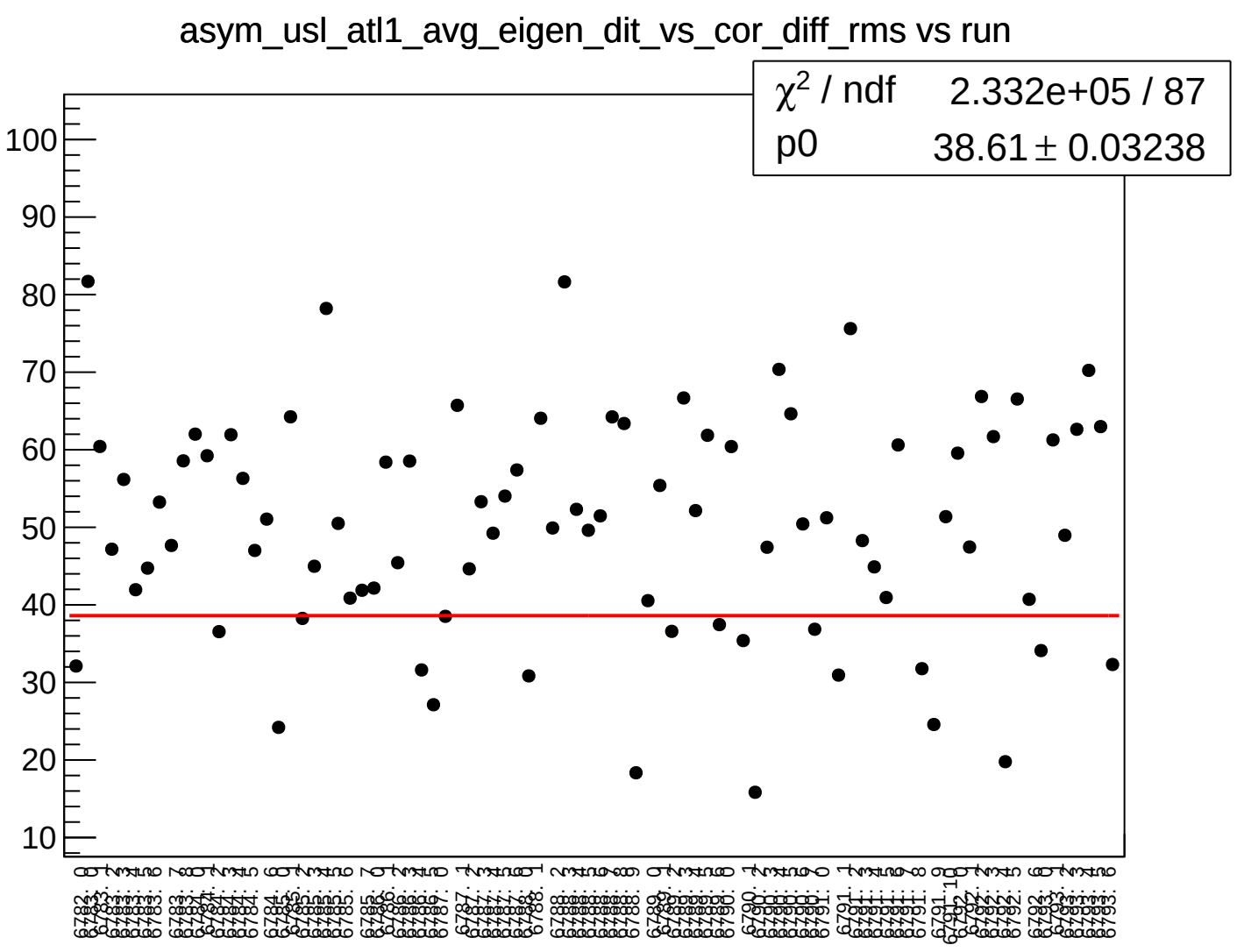

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 102.5 / 87
p0 −9.166e−06 ± 2.859e−06
pull
Entries 88
Mean −242.6
Std Dev 0

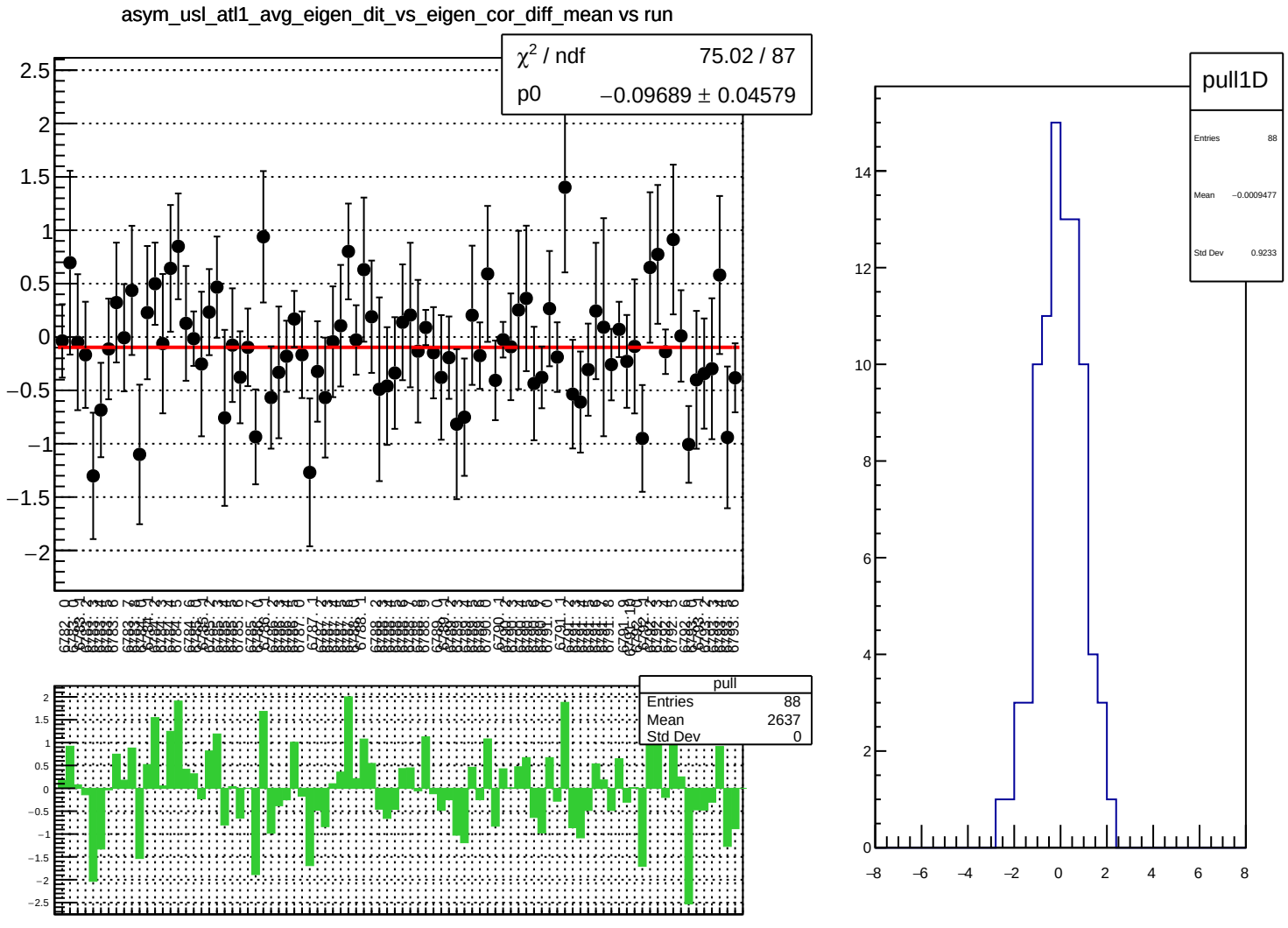

pull1D
Entries 88
Mean −0.01179
Std Dev 1.079

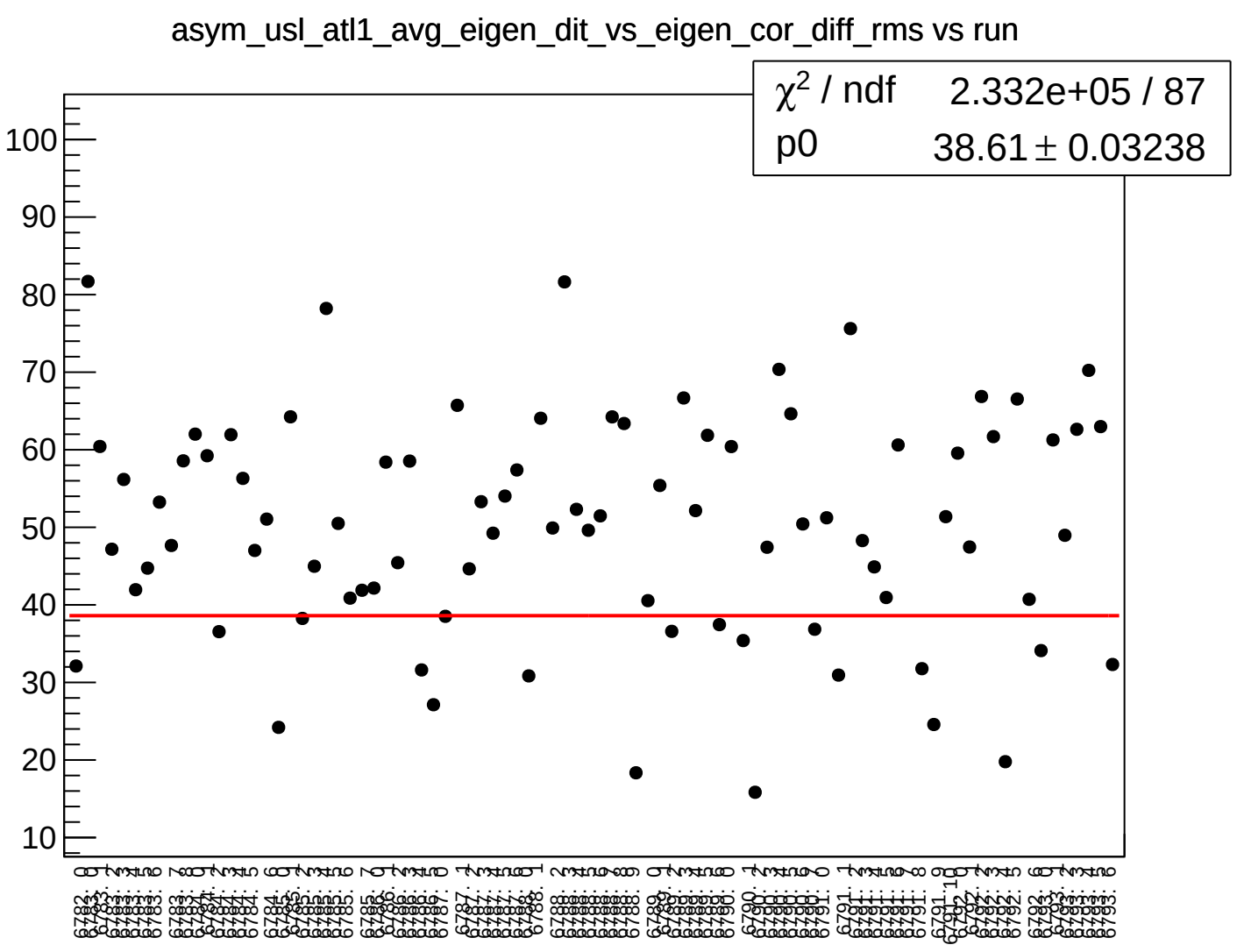

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1679 / 87
p0 0.002599 ± 2.022e−06
0.0028
0.00275
0.0027
0.00265
0.0026
0.00255
0.0025
0.00245
0.0024

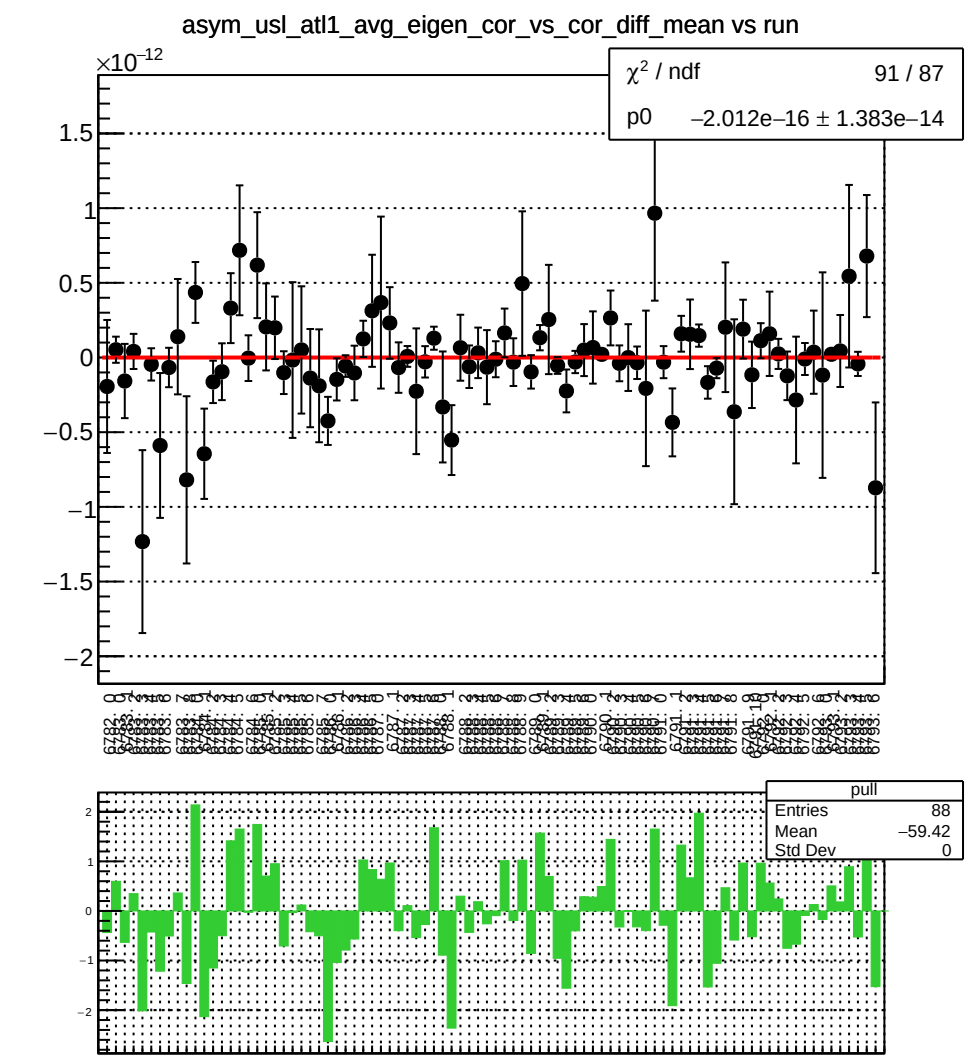

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.02 / 87
p0 −0.09689 ± 0.04579
pull
Entries 88
Mean 2637
Std Dev 0

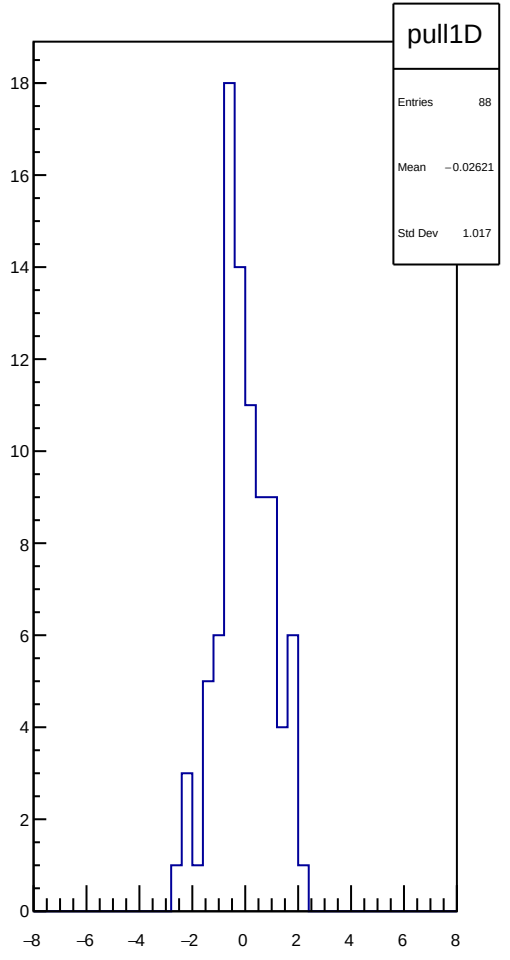

pull1D
Entries 88
Mean −0.0009477
Std Dev 0.9233

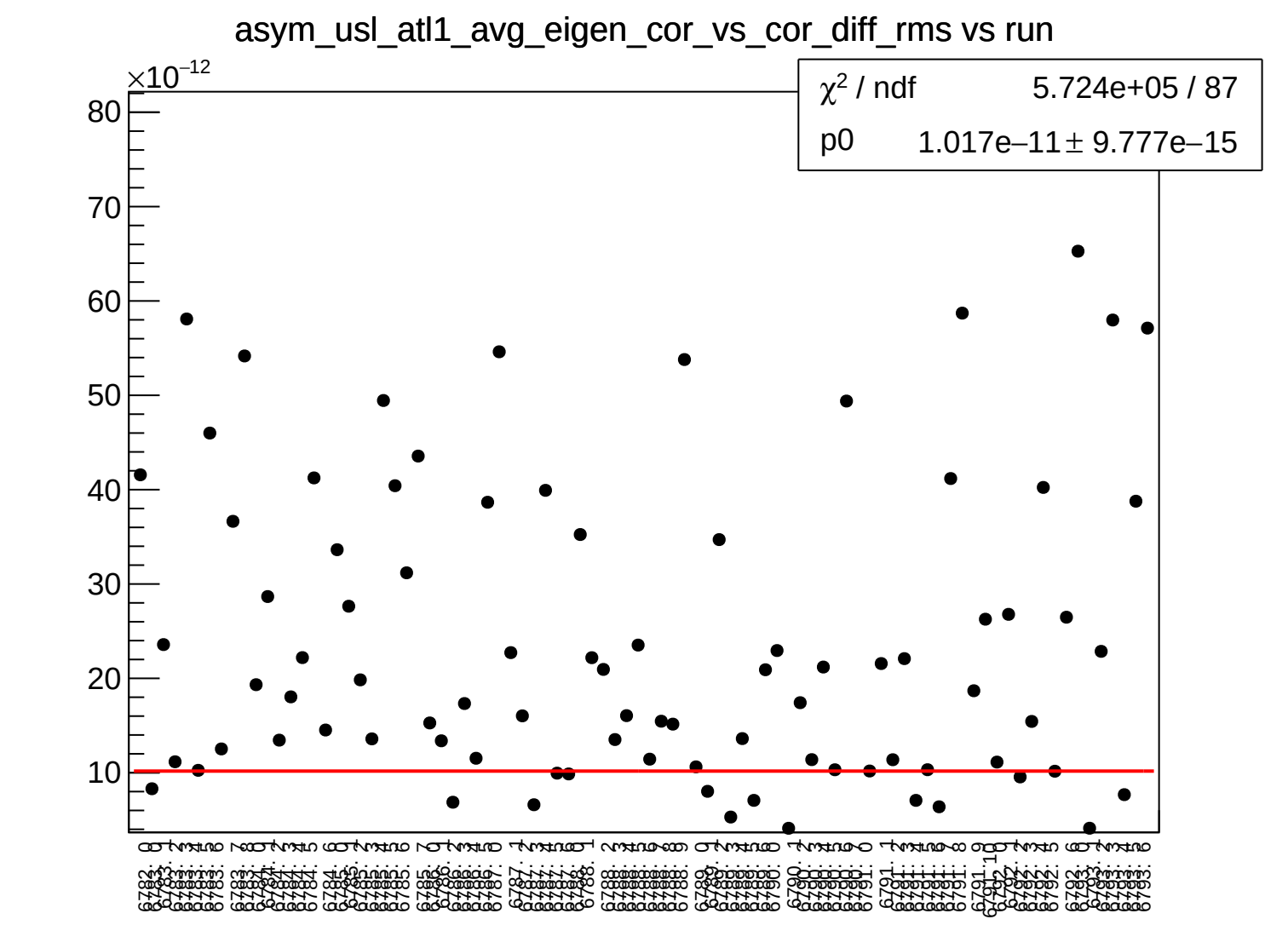

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.332e+05 / 87
p0 38.61 ± 0.03238
100
90
80
70
60
50
40
30
20
10

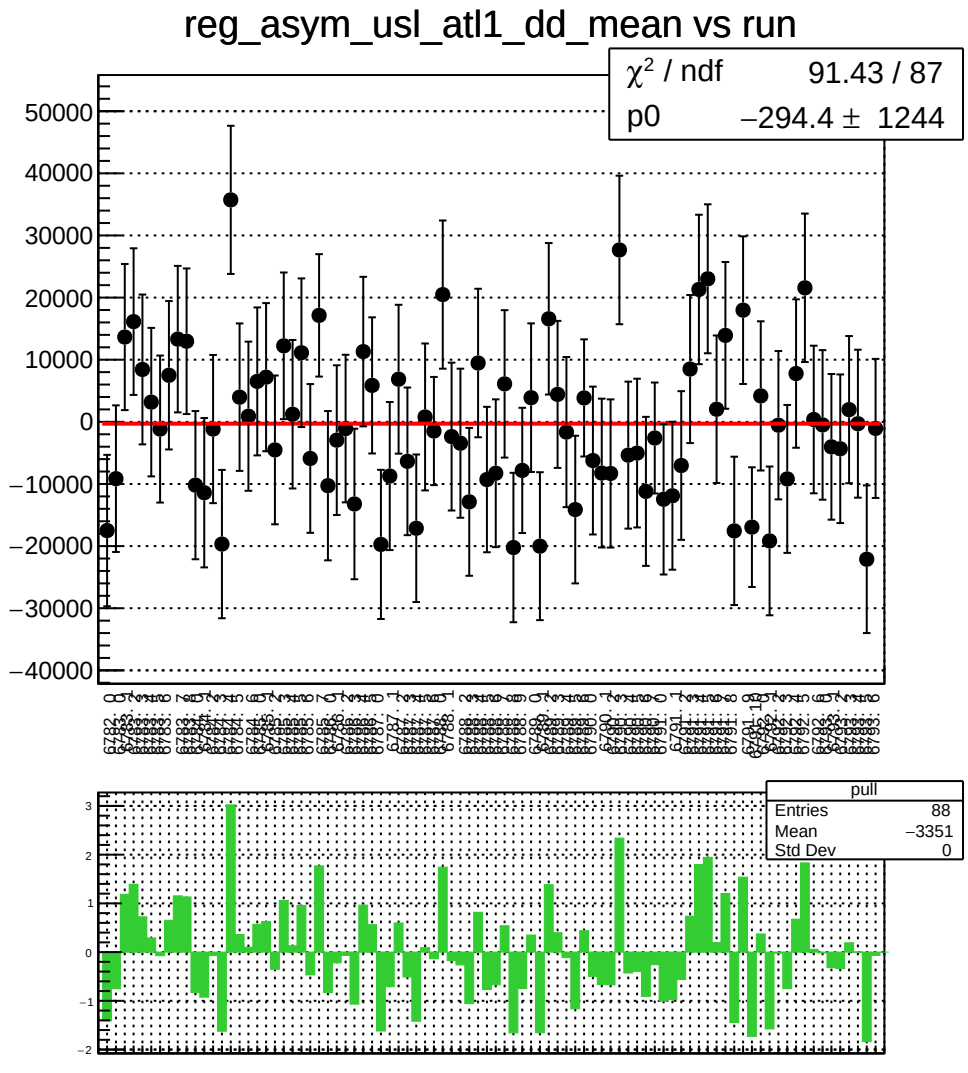

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.02 / 87
p0 −0.09689 ± 0.04579
pull
Entries 88
Mean 2637
Std Dev 0
pull1D
Entries 88
Mean −0.0009477
Std Dev 0.9233

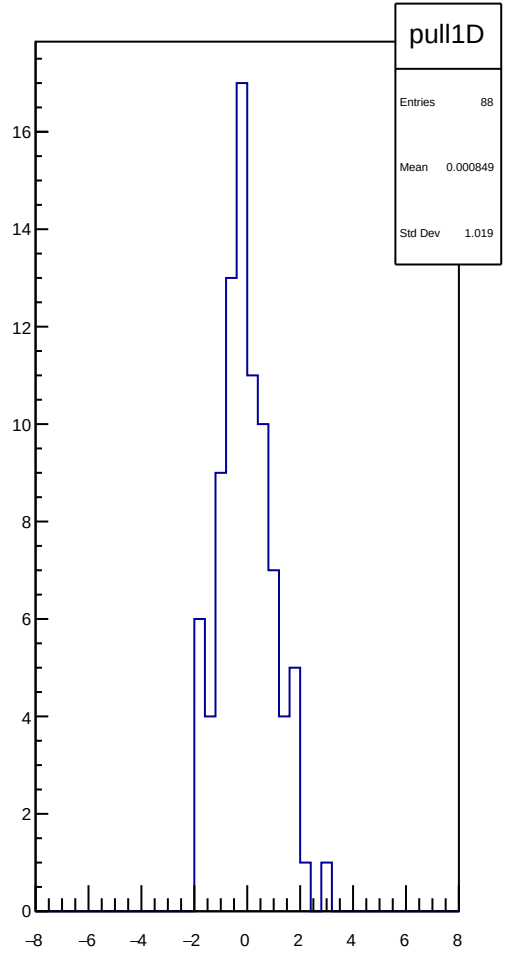

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.332e+05 / 87
p0 38.61 ± 0.03238
100
90
80
70
60
50
40
30
20
10

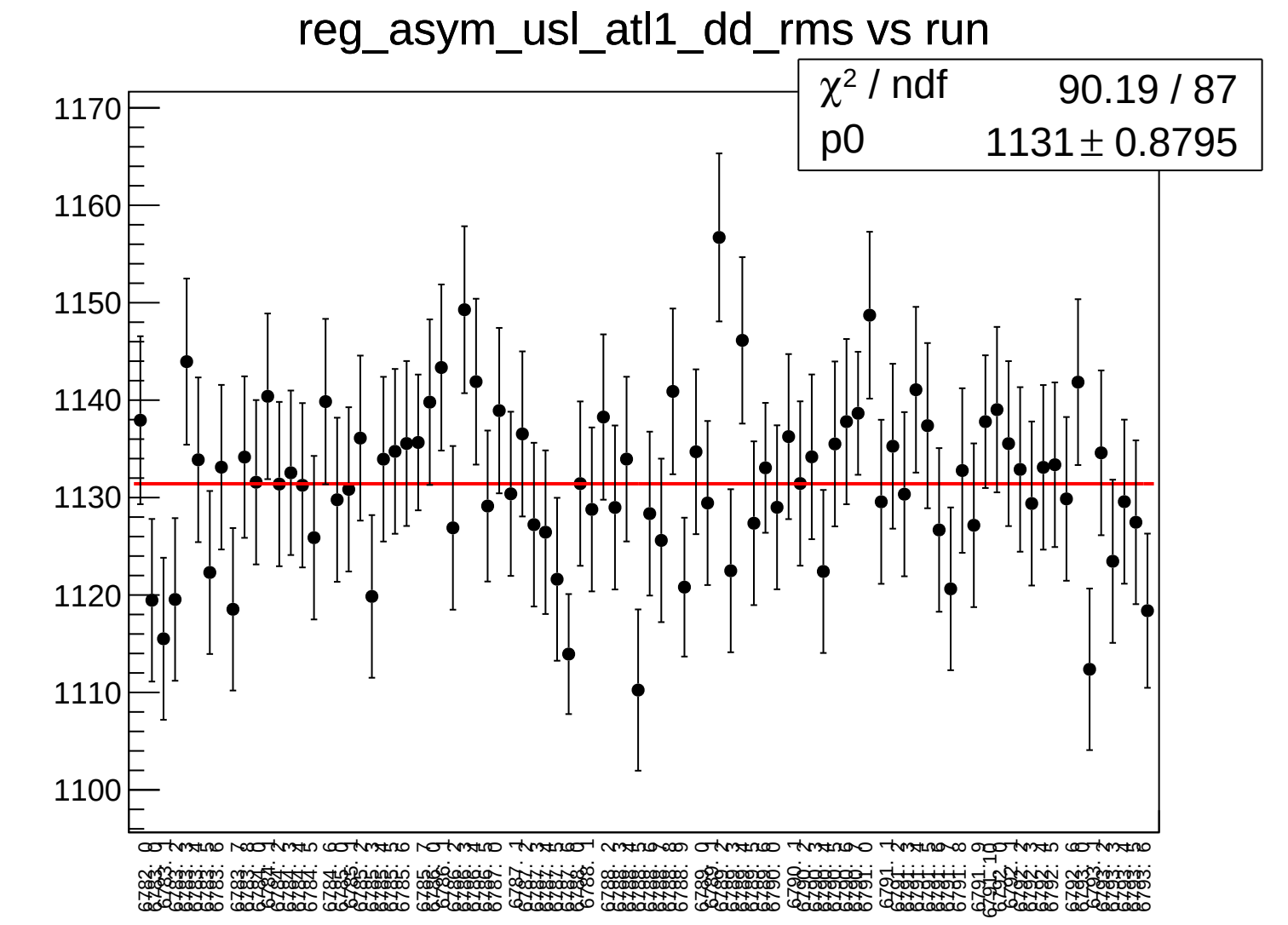

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91 / 87
p0 −2.012e−16 ± 1.383e−14
pull
Entries 88
Mean −59.42
Std Dev 0

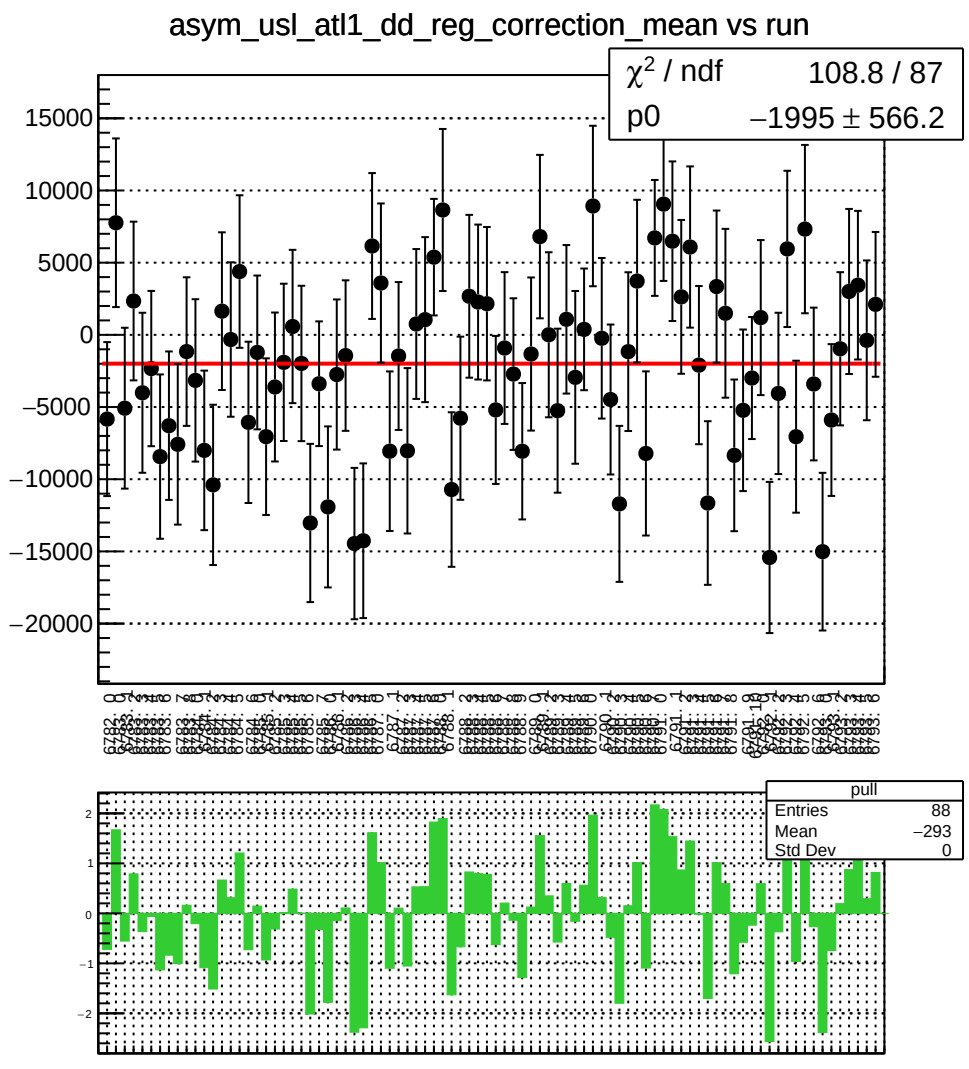

pull1D
Entries 88
Mean −0.02621
Std Dev 1.017

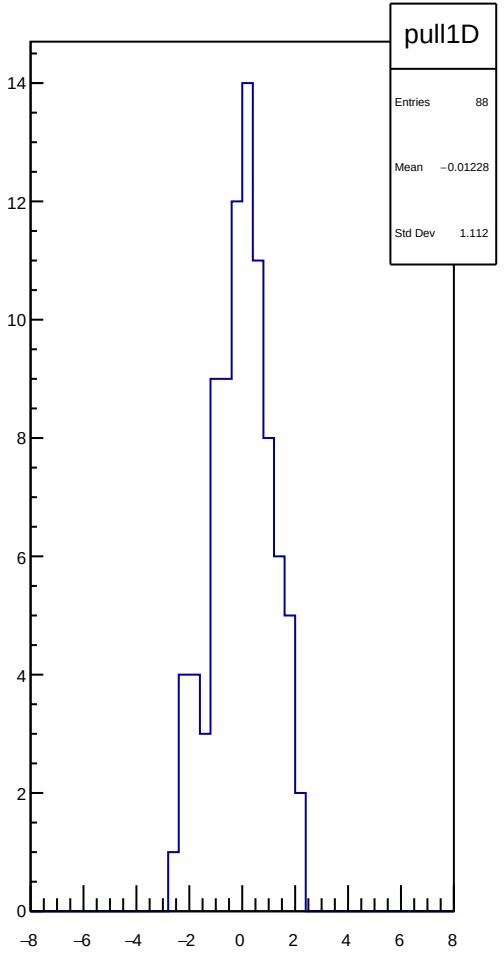

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.724e+05 / 87
p0 1.017e−11 ± 9.777e−15
80
70
60
50
40
30
20
10

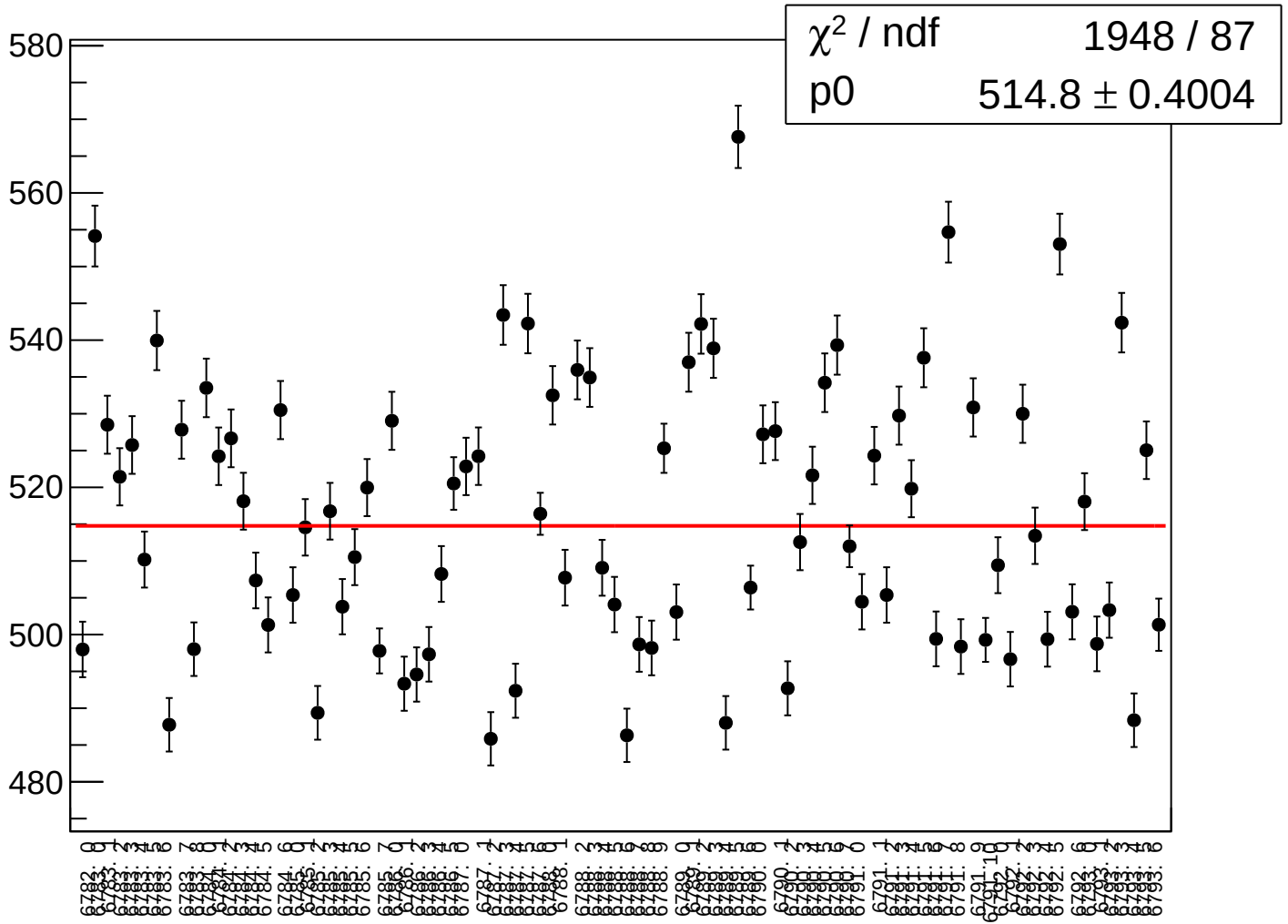

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 91.43 / 87
p0 −294.4 ± 1244
pull
Entries 88
Mean −3351
Std Dev 0

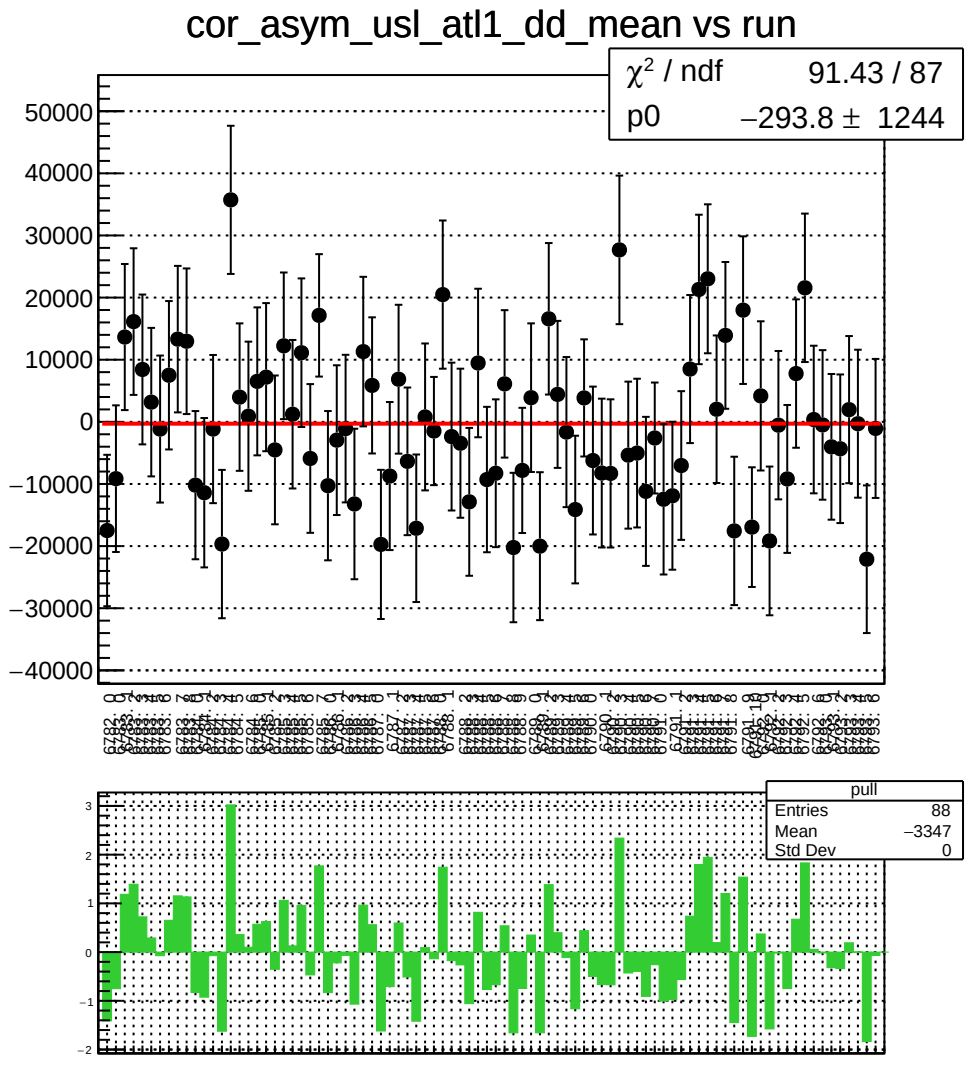

pull1D
Entries 88
Mean 0.000849
Std Dev 1.019

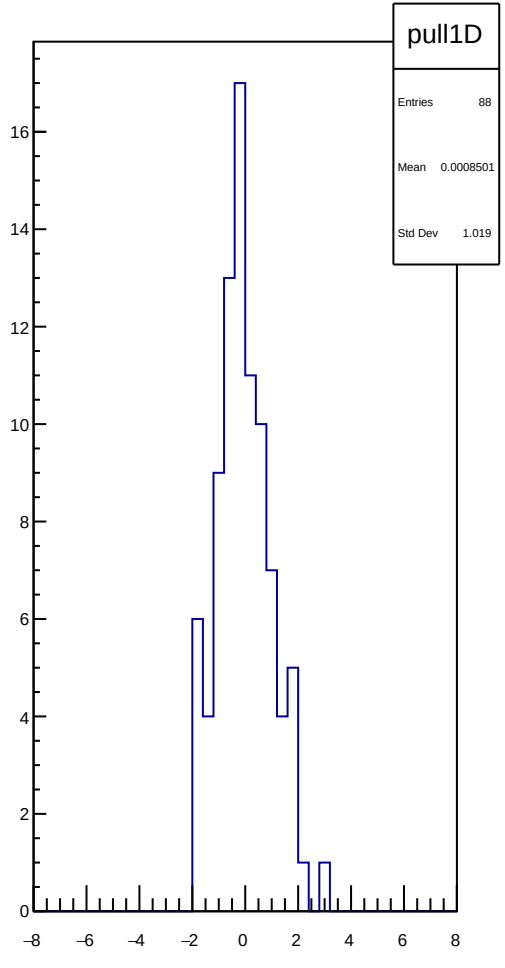

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 90.19 / 87
p0 1131 ± 0.8795
1170
1160
1150
1140
1130
1120
1110
1100

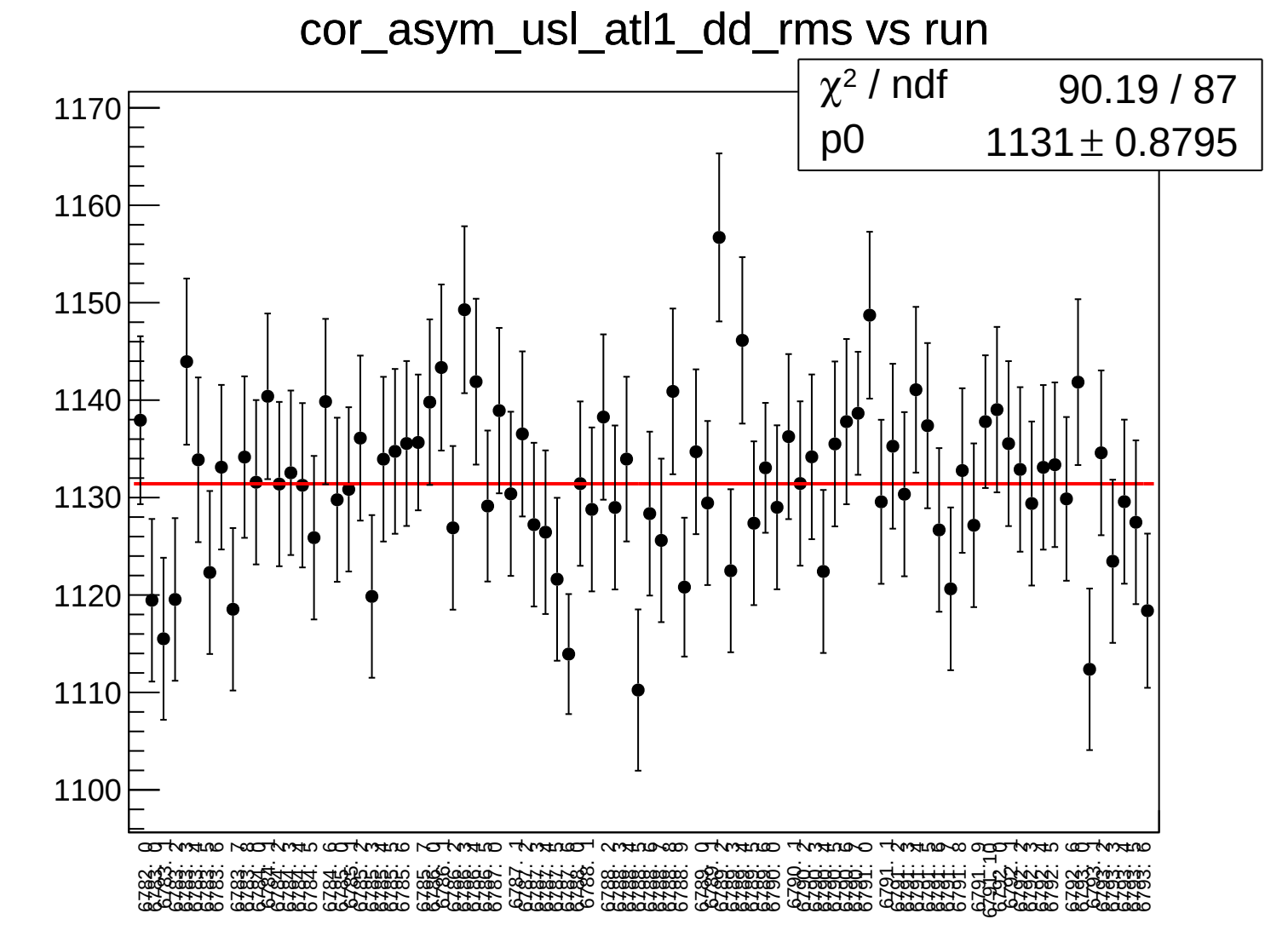

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 108.8 / 87
p0 −1995 ± 566.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −293
Std Dev 0
2
1
0
−1
−2

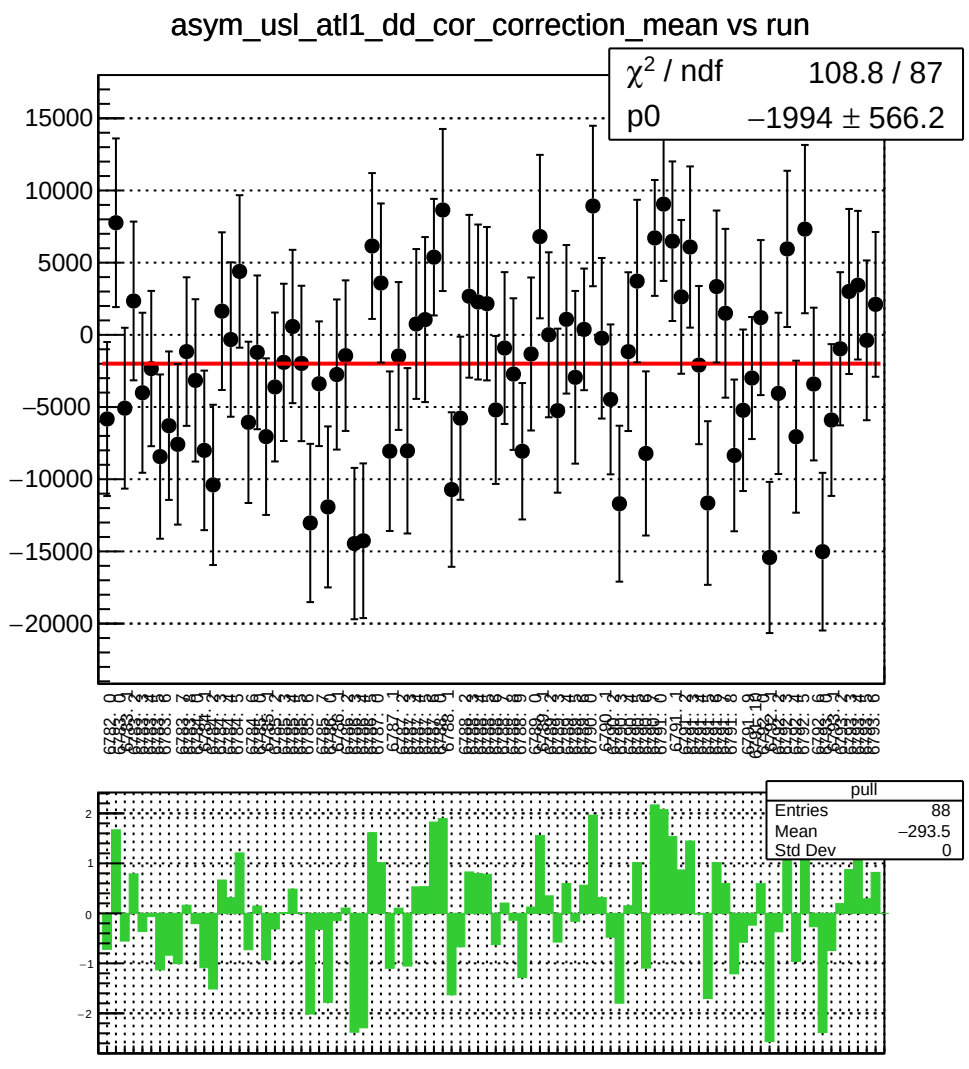

pull1D
Entries 88
Mean −0.01228
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

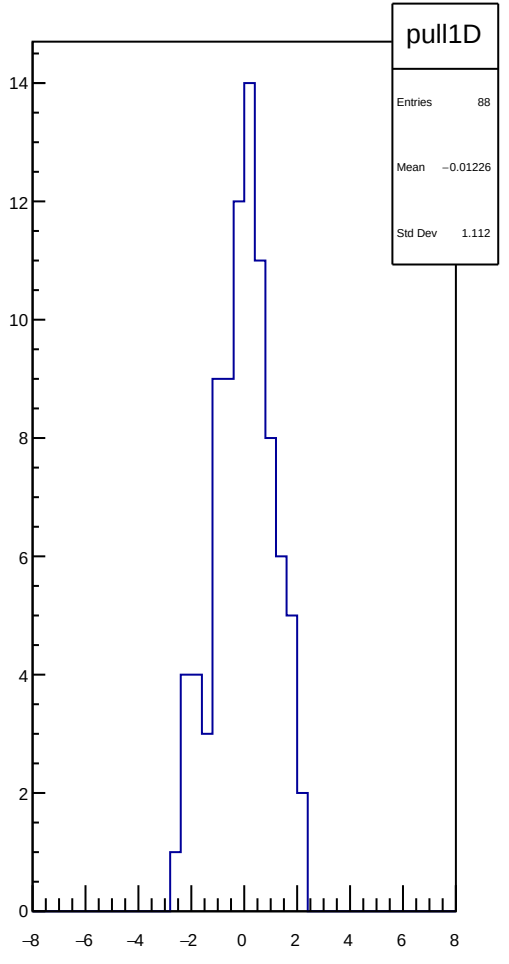

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1948 / 87
p0 514.8 ± 0.4004
580
560
540
520
500
480

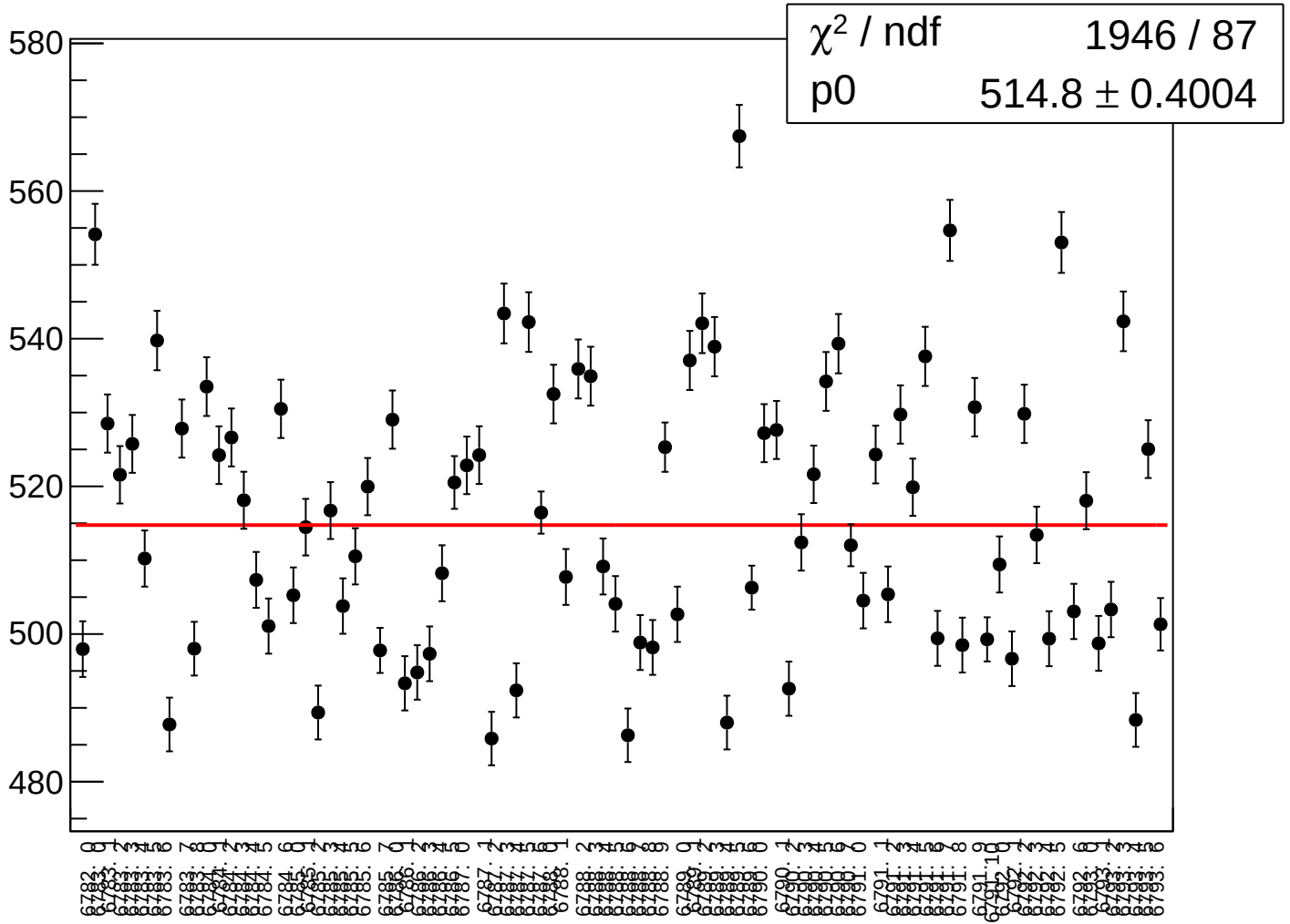

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 91.43 / 87
p0 −293.8 ± 1244
pull
Entries 88
Mean −3347
Std Dev 0

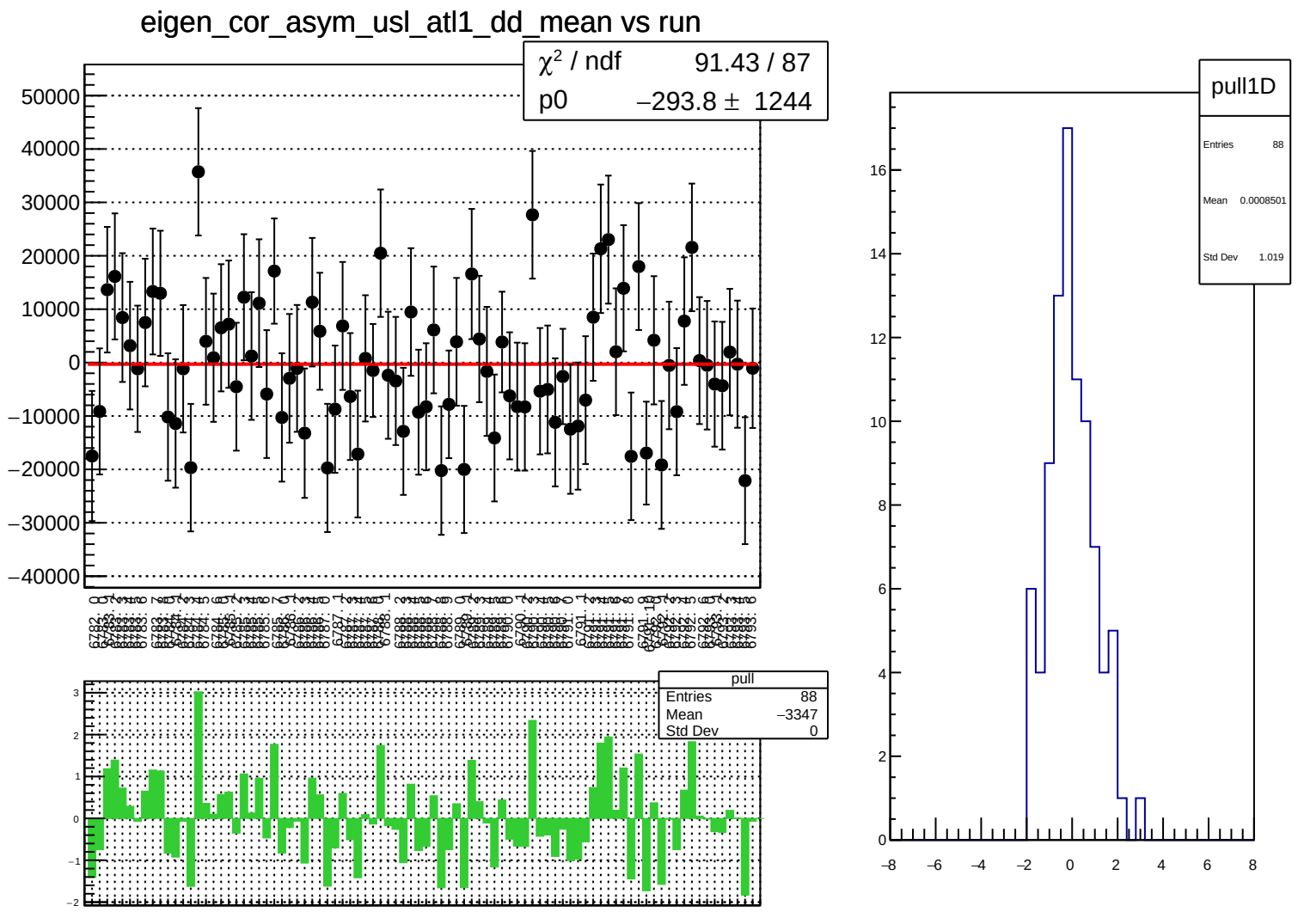

pull1D
Entries 88
Mean 0.0008501
Std Dev 1.019

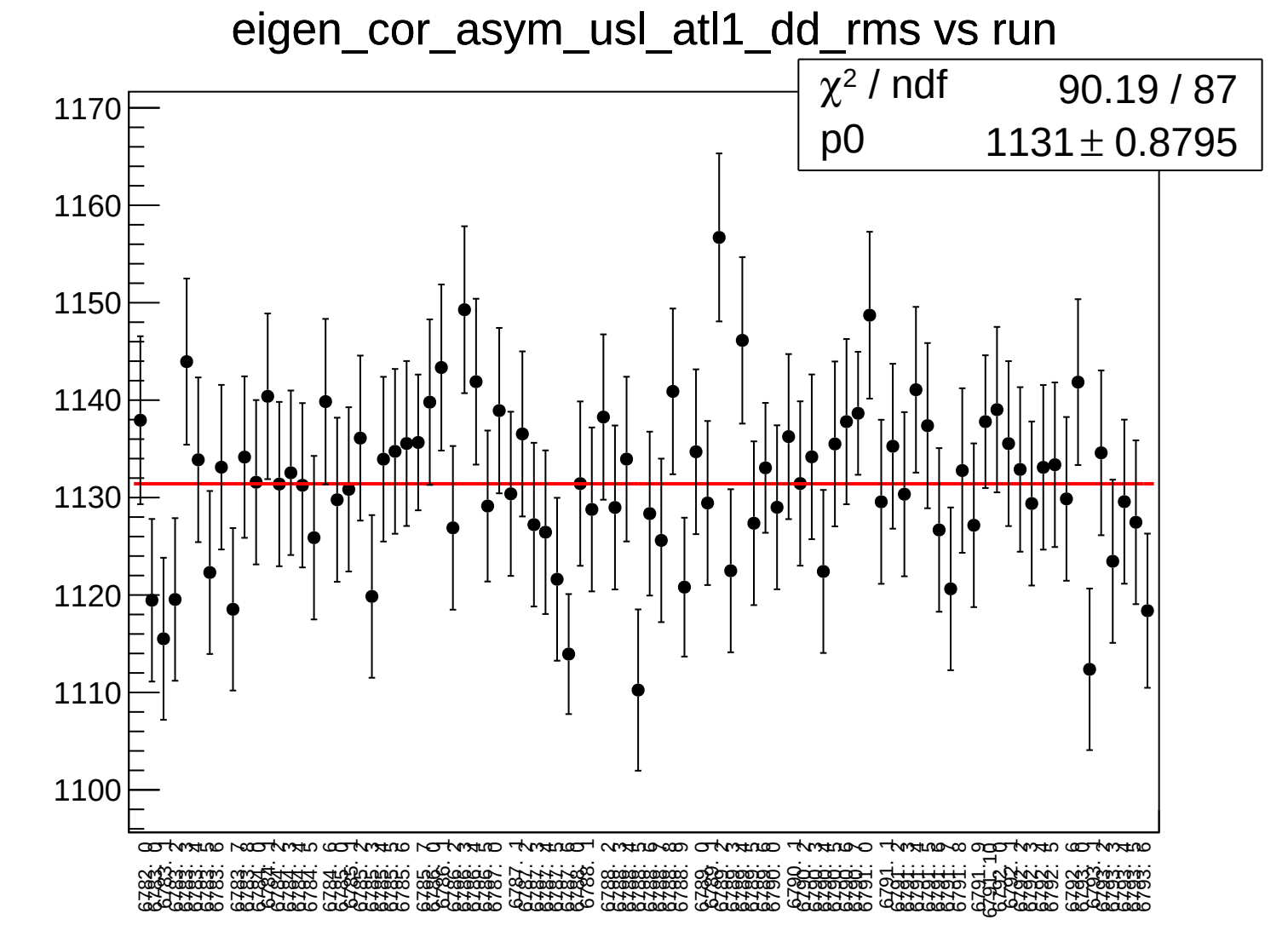

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 90.19 / 87
p0 1131 ± 0.8795
1170
1160
1150
1140
1130
1120
1110
1100

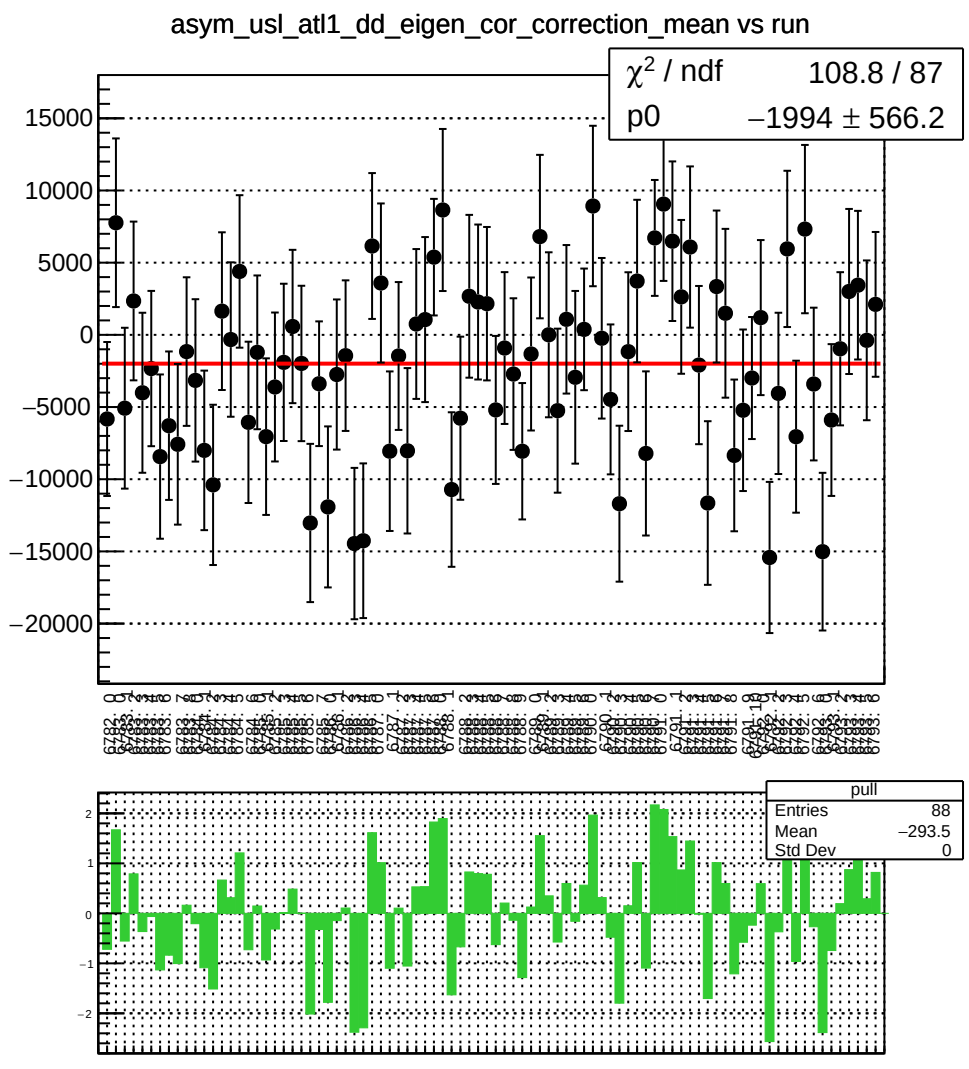

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 108.8 / 87
p0 −1994 ± 566.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −293.5
Std Dev 0
2
1
0
−1
−2

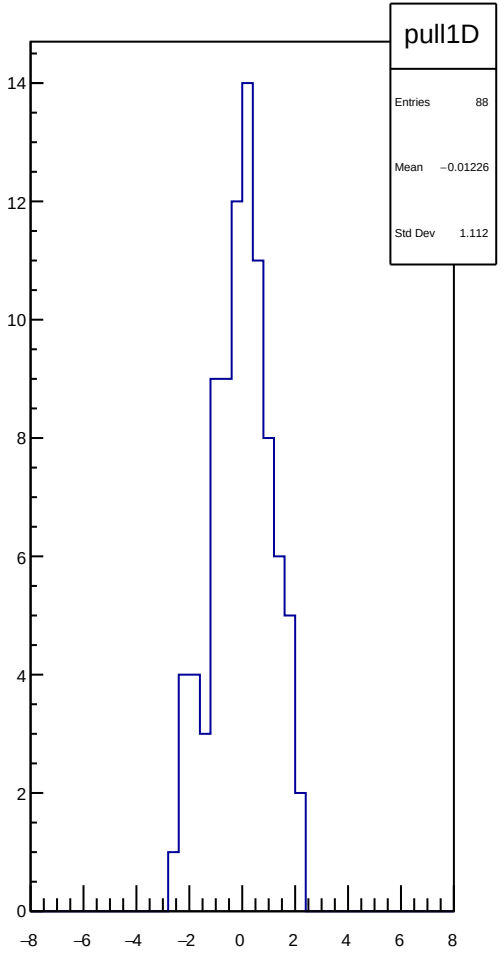

pull1D
Entries 88
Mean −0.01226
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

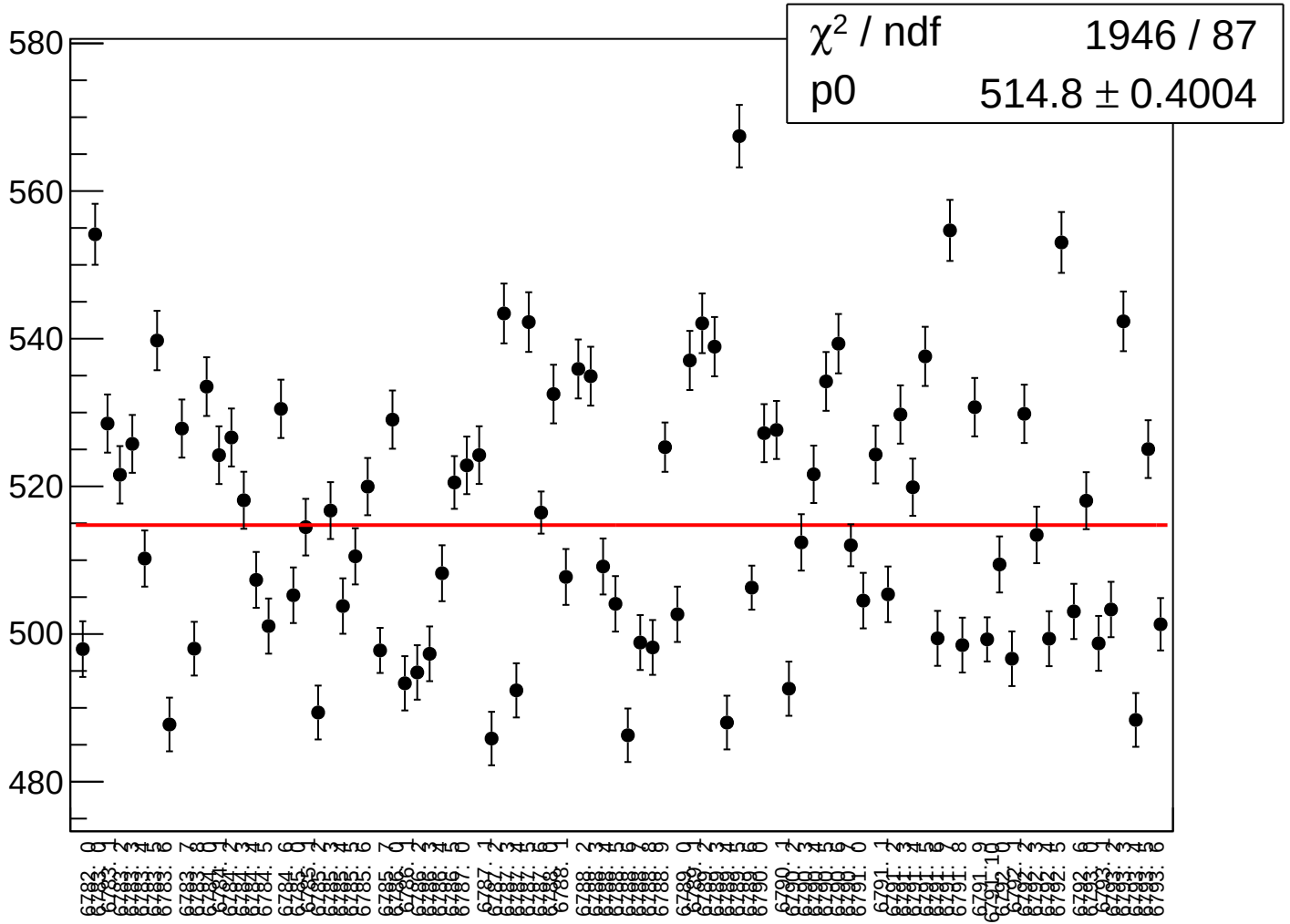

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1946 / 87
p0 514.8 ± 0.4004
580
560
540
520
500
480

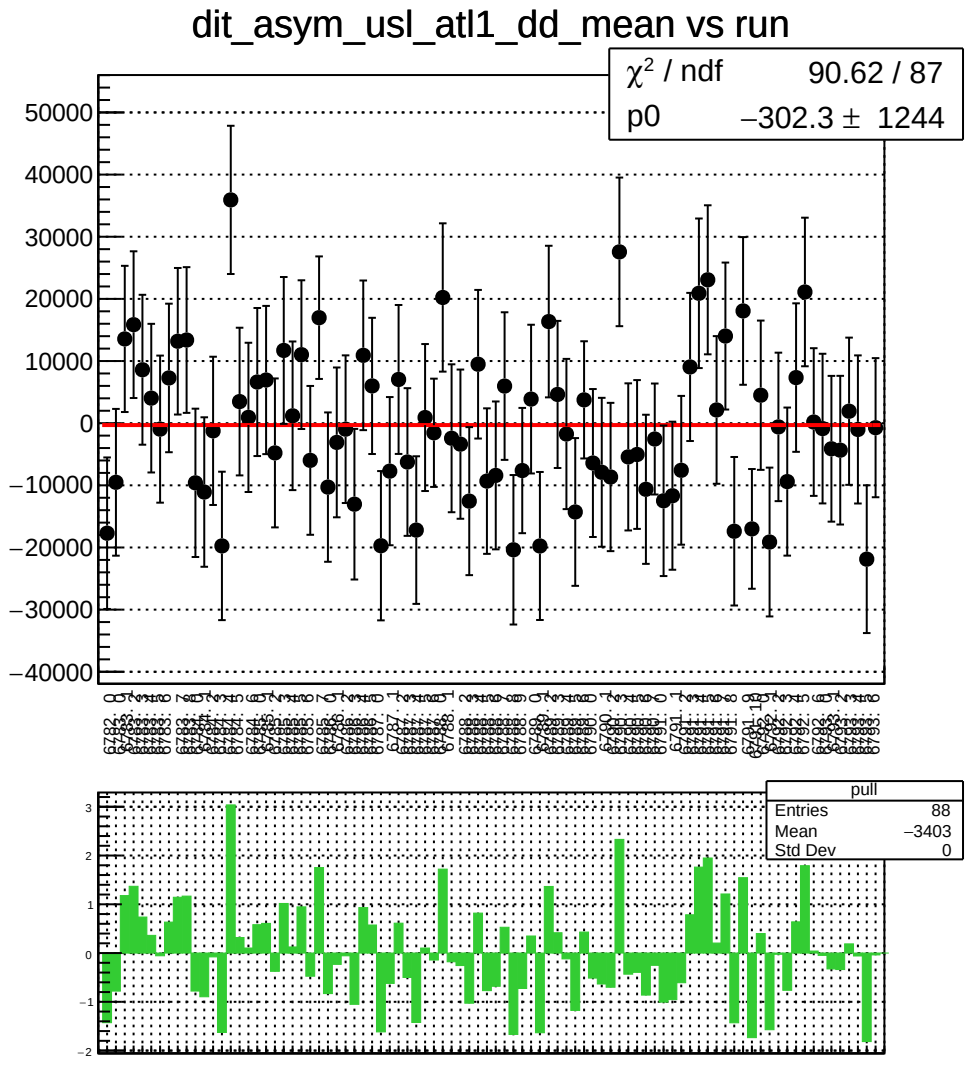

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 91.43 / 87
p0 −293.8 ± 1244
pull
Entries 88
Mean −3347
Std Dev 0
pull1D
Entries 88
Mean 0.0008501
Std Dev 1.019

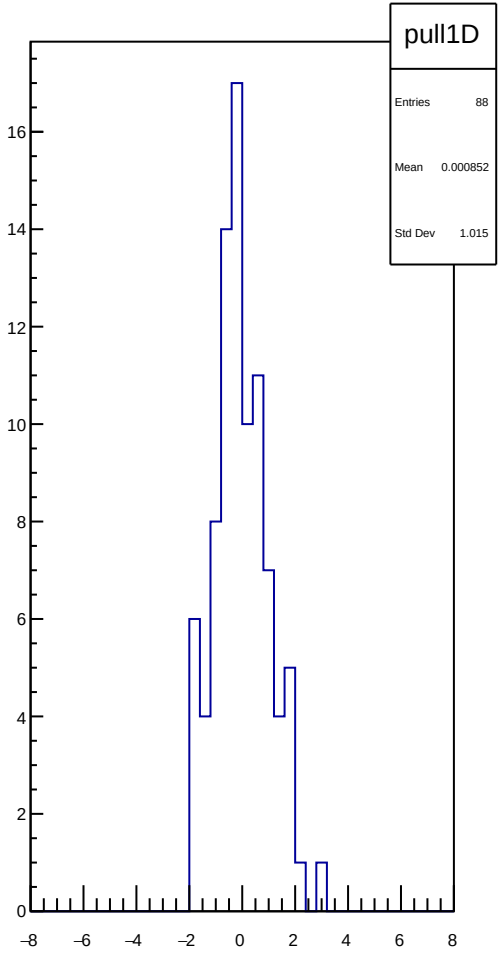

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 90.19 / 87
p0 1131 ± 0.8795
1170
1160
1150
1140
1130
1120
1110
1100

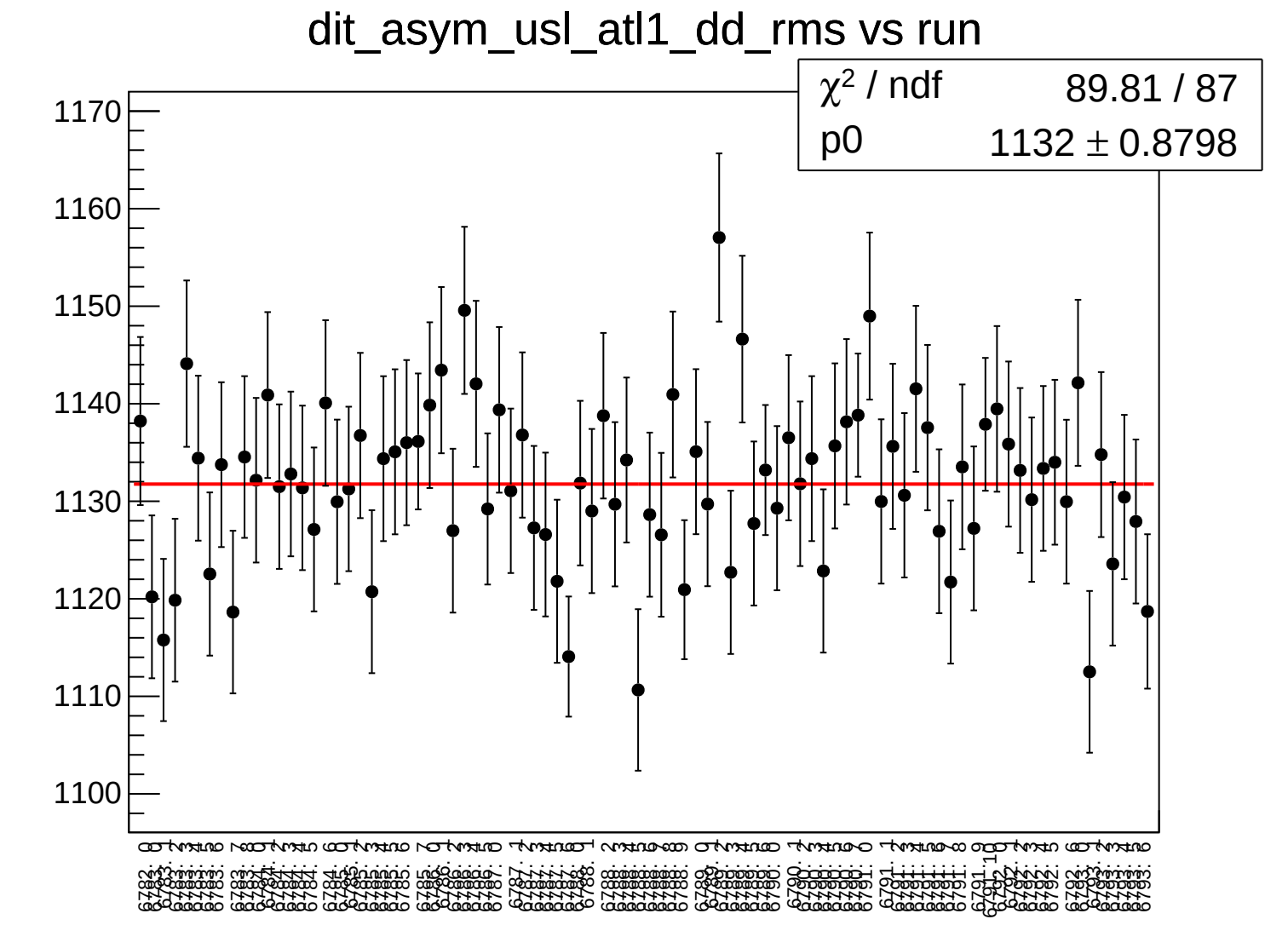

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 108.8 / 87
p0 −1994 ± 566.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −293.5
Std Dev 0
2
1
0
−1
−2

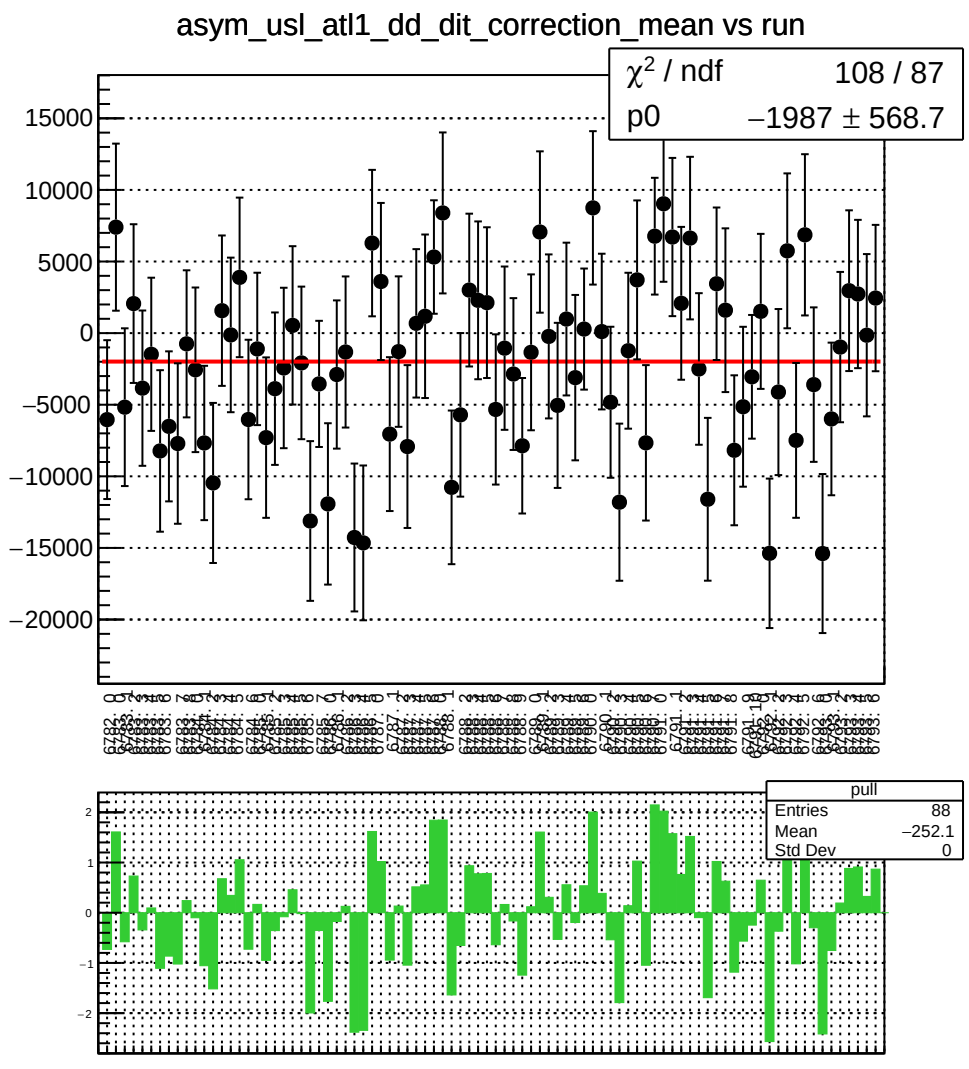

pull1D
Entries 88
Mean −0.01226
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

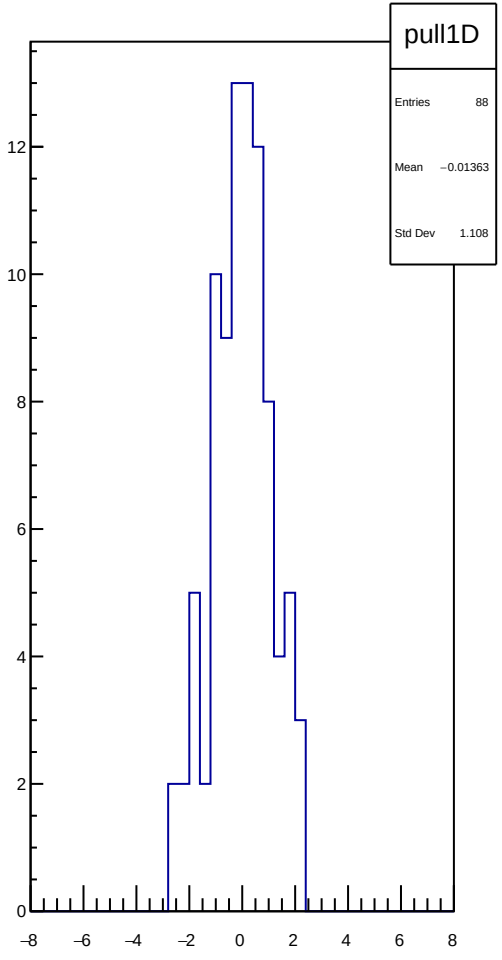

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1946 / 87
p0 514.8 ± 0.4004
580
560
540
520
500
480

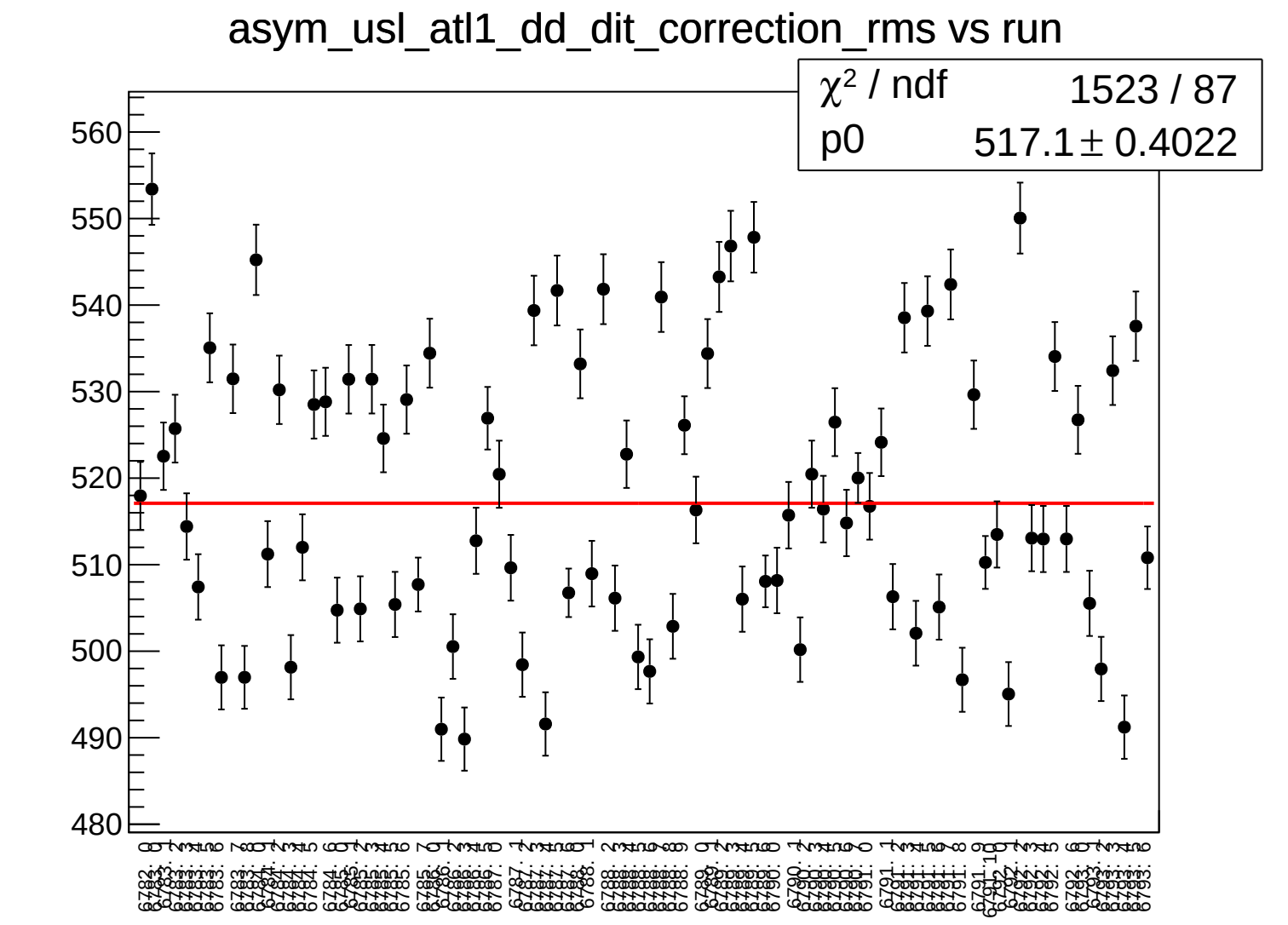

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 90.62 / 87
p0 −302.3 ± 1244
pull
Entries 88
Mean −3403
Std Dev 0

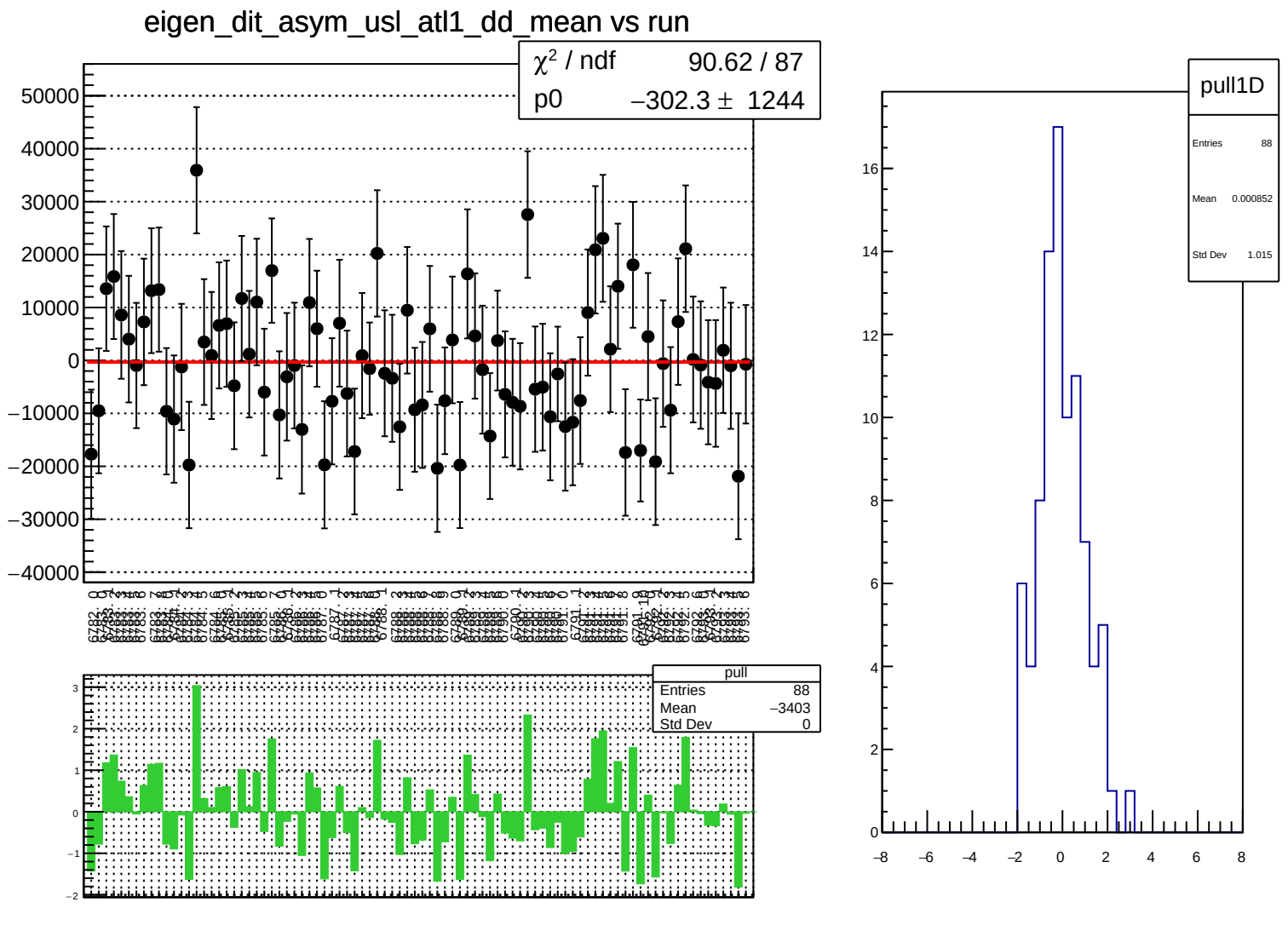

pull1D
Entries 88
Mean 0.000852
Std Dev 1.015

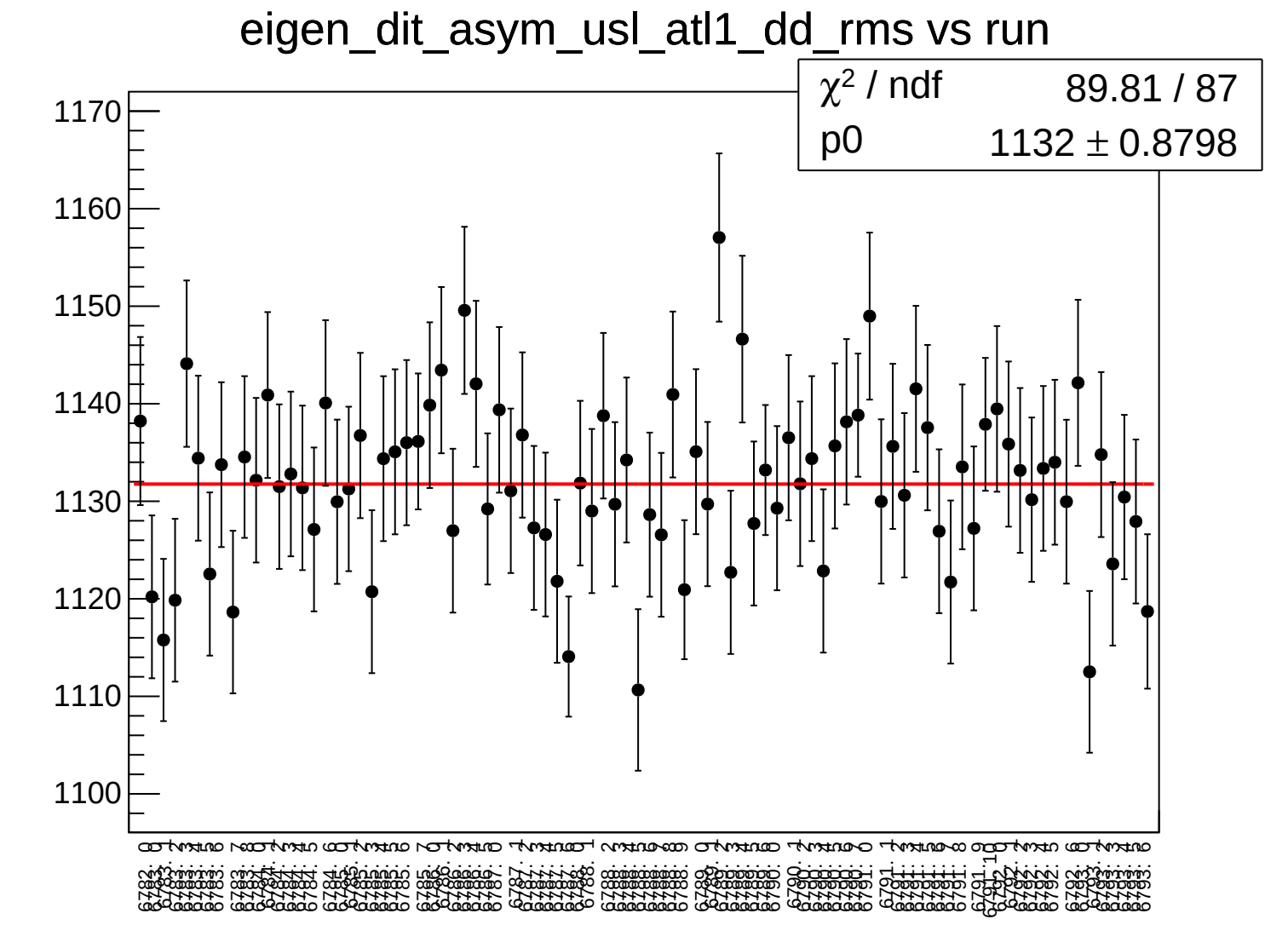

dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 89.81 / 87
p0 1132 ± 0.8798
1170
1160
1150
1140
1130
1120
1110
1100

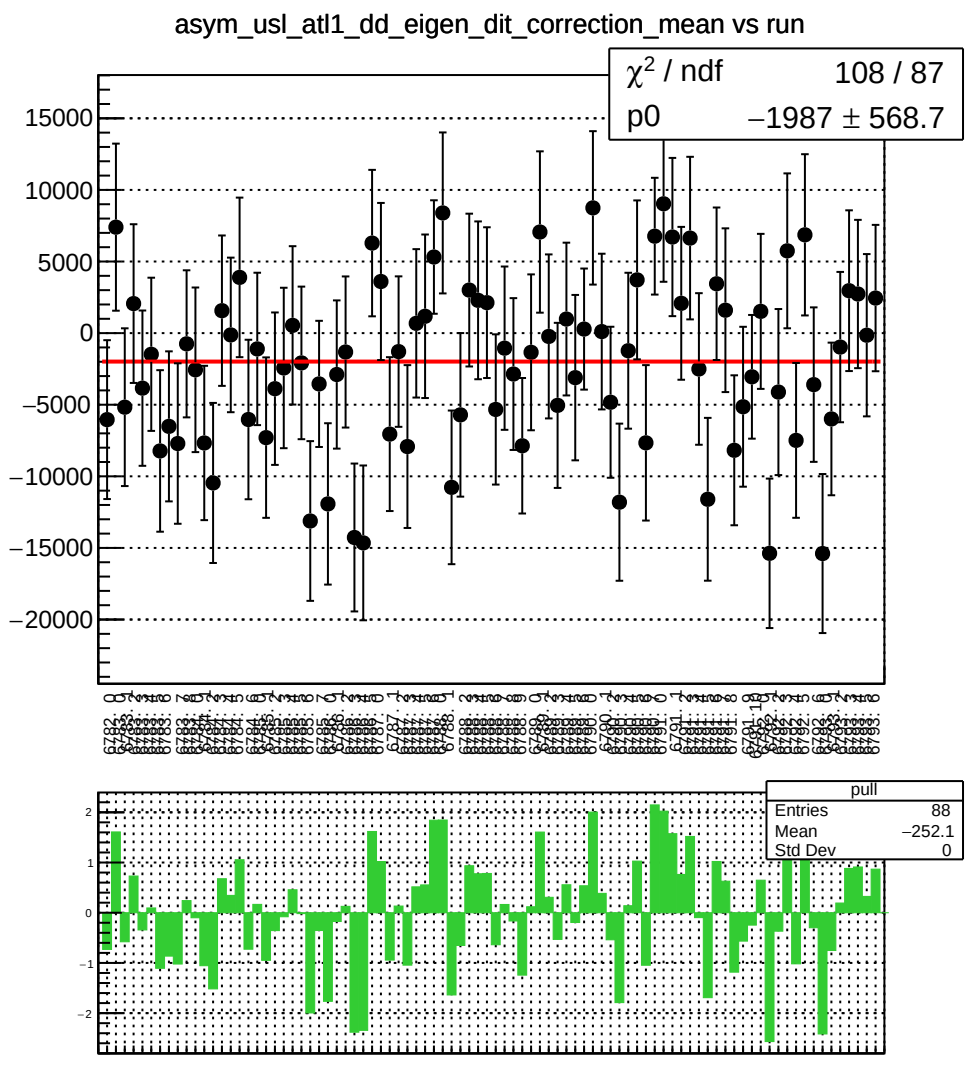

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 108 / 87
p0 −1987 ± 568.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −252.1
Std Dev 0
2
1
0
−1

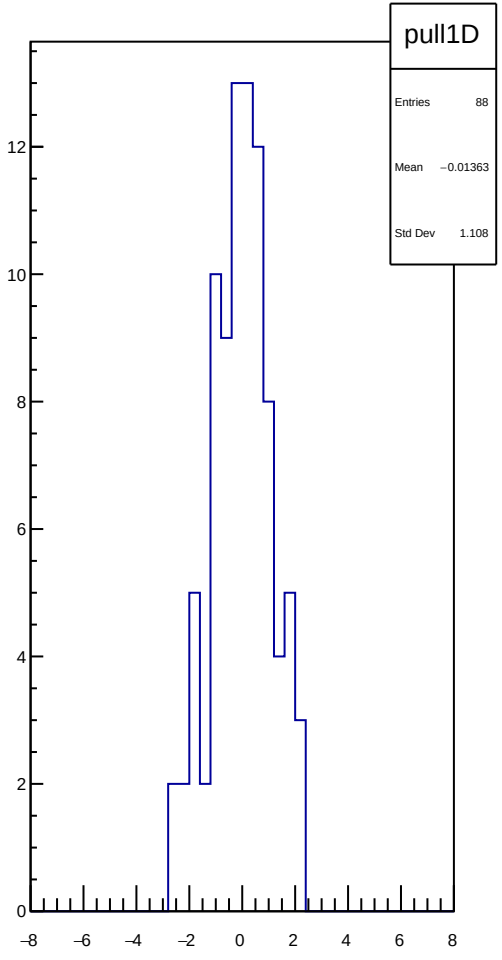

pull1D
Entries 88
Mean −0.01363
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

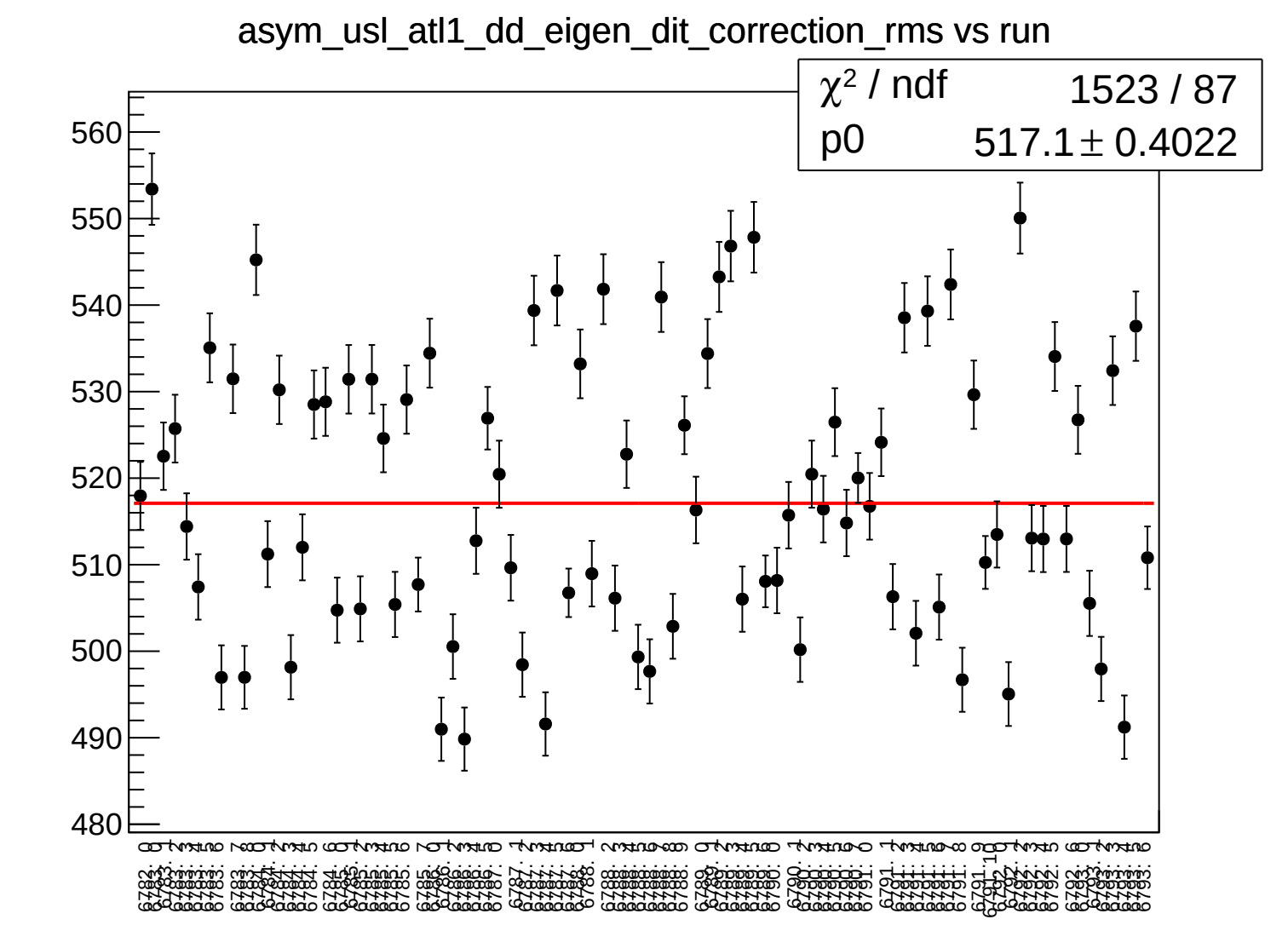

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1523 / 87
p0 517.1 ± 0.4022
560
550
540
530
520
510
500
490
480

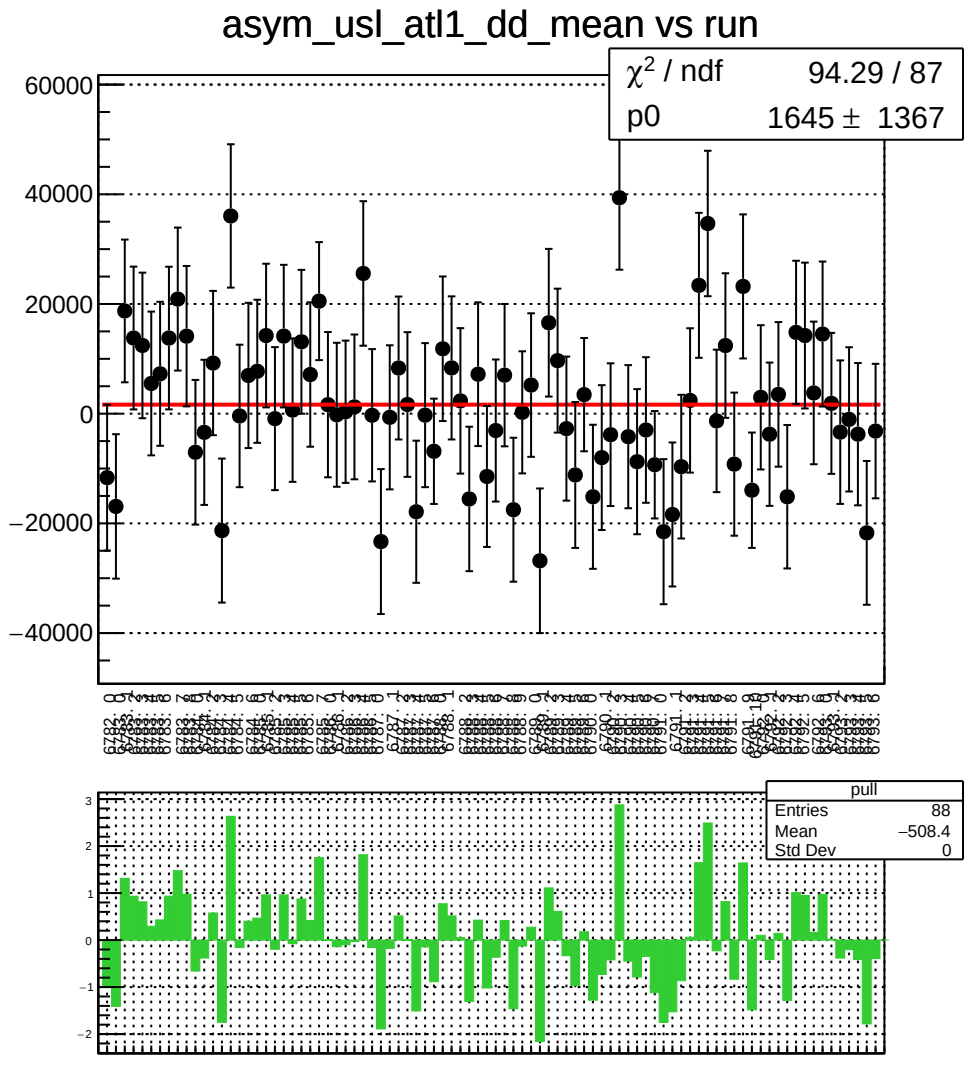

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 90.62 / 87
p0 −302.3 ± 1244
pull
Entries 88
Mean −3403
Std Dev 0
pull1D
Entries 88
Mean 0.000852
Std Dev 1.015

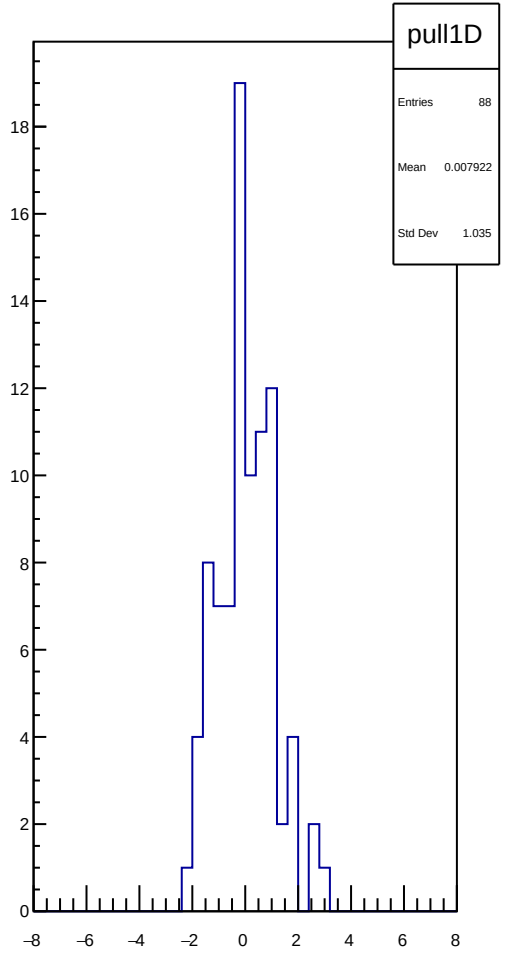

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 89.81 / 87
p0 1132 ± 0.8798
1170
1160
1150
1140
1130
1120
1110
1100

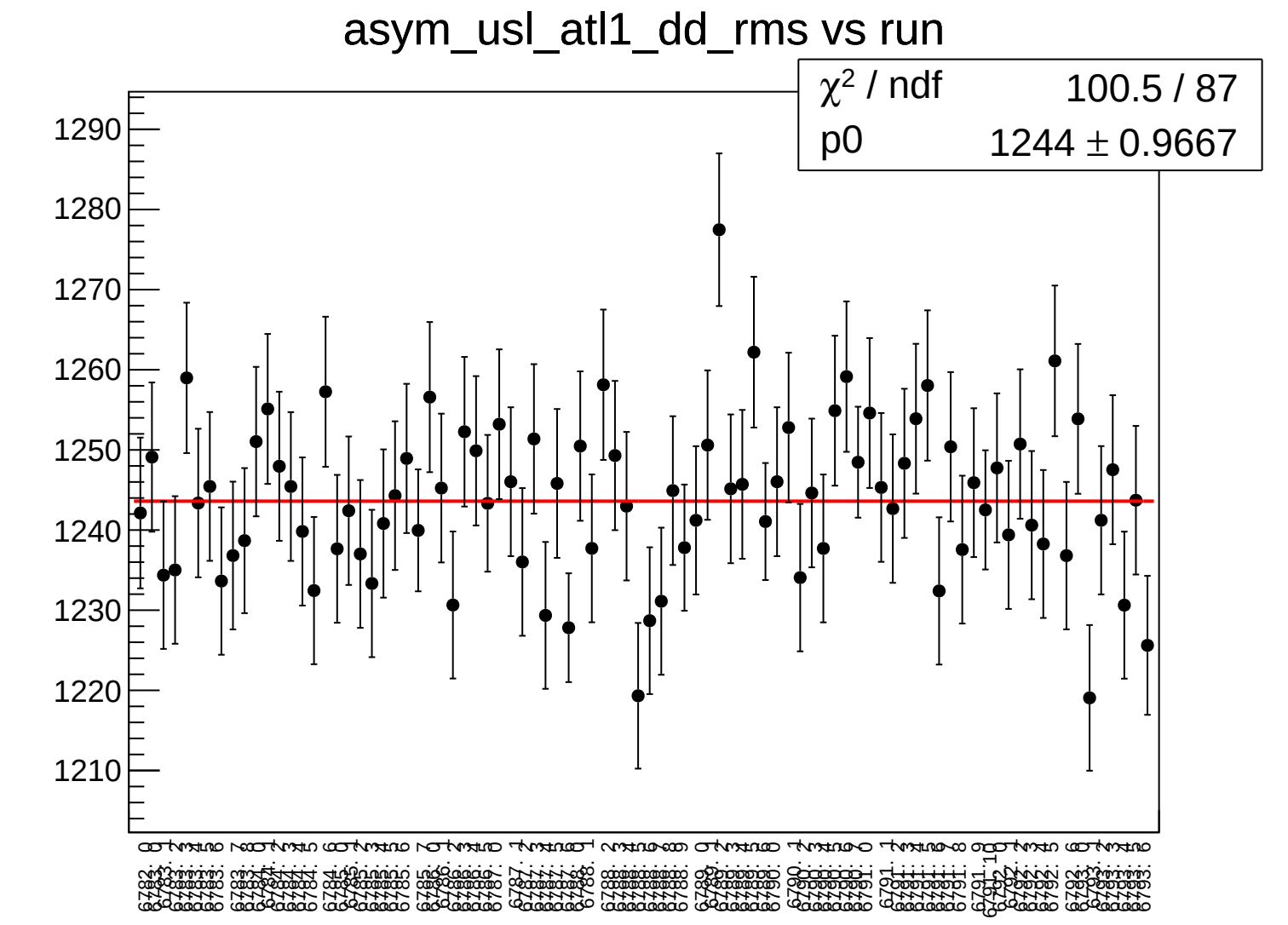

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 108 / 87
p0 −1987 ± 568.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −252.1
Std Dev 0
2
1
0
−1
−2

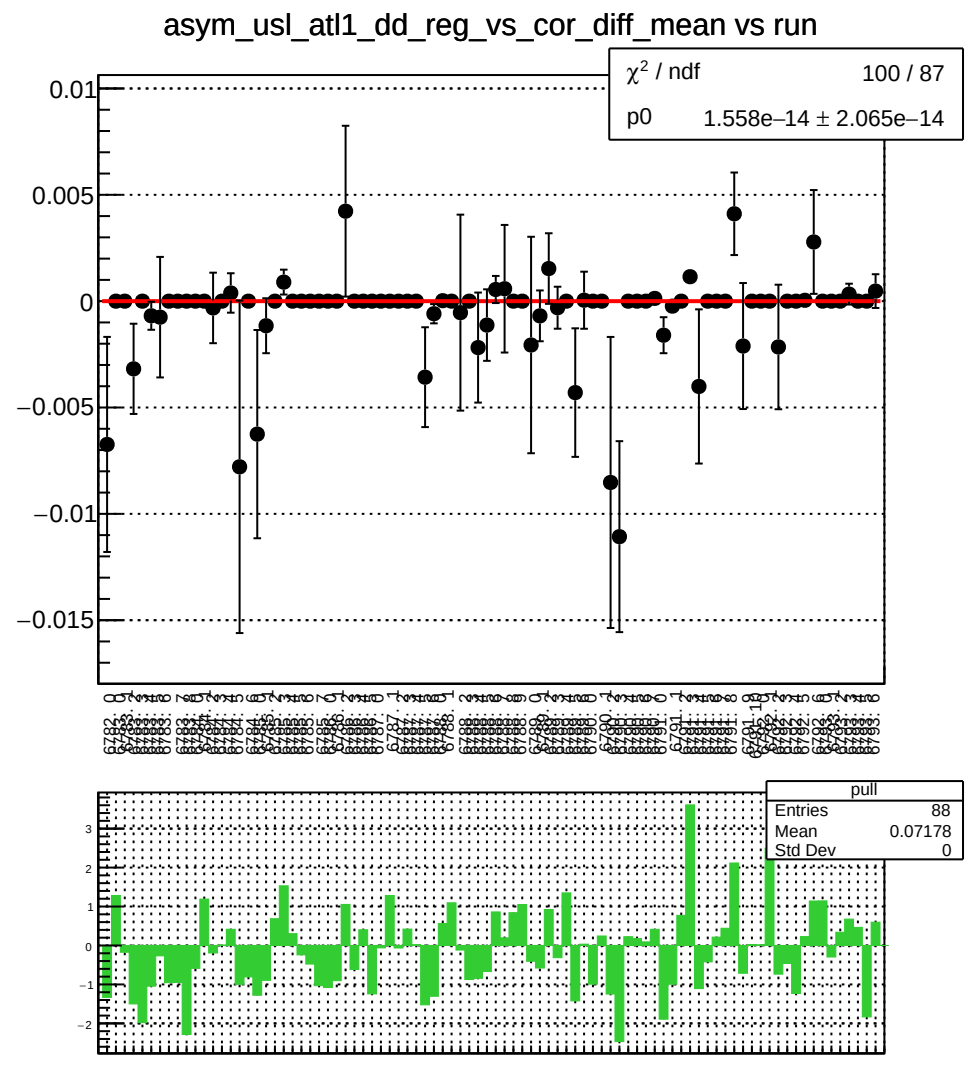

pull1D
Entries 88
Mean −0.01363
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

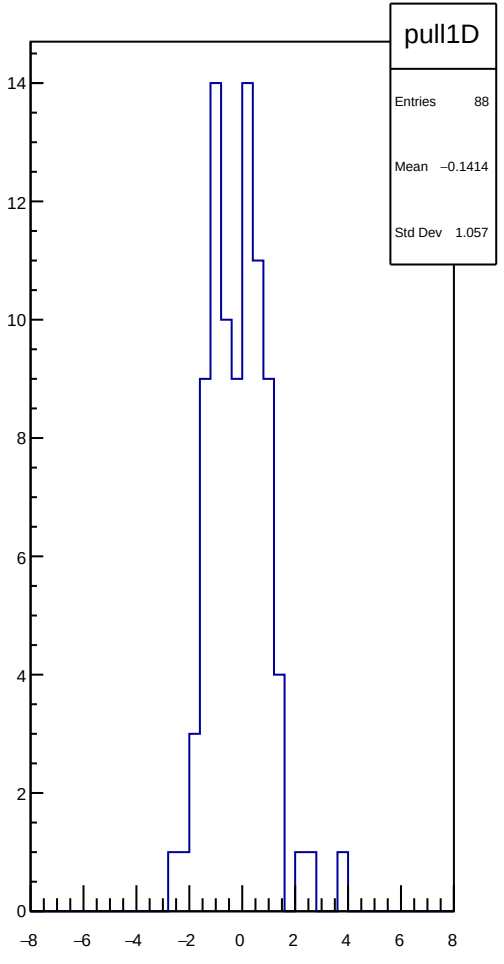

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1523 / 87
p0 517.1 ± 0.4022
560
550
540
530
520
510
500
490
480

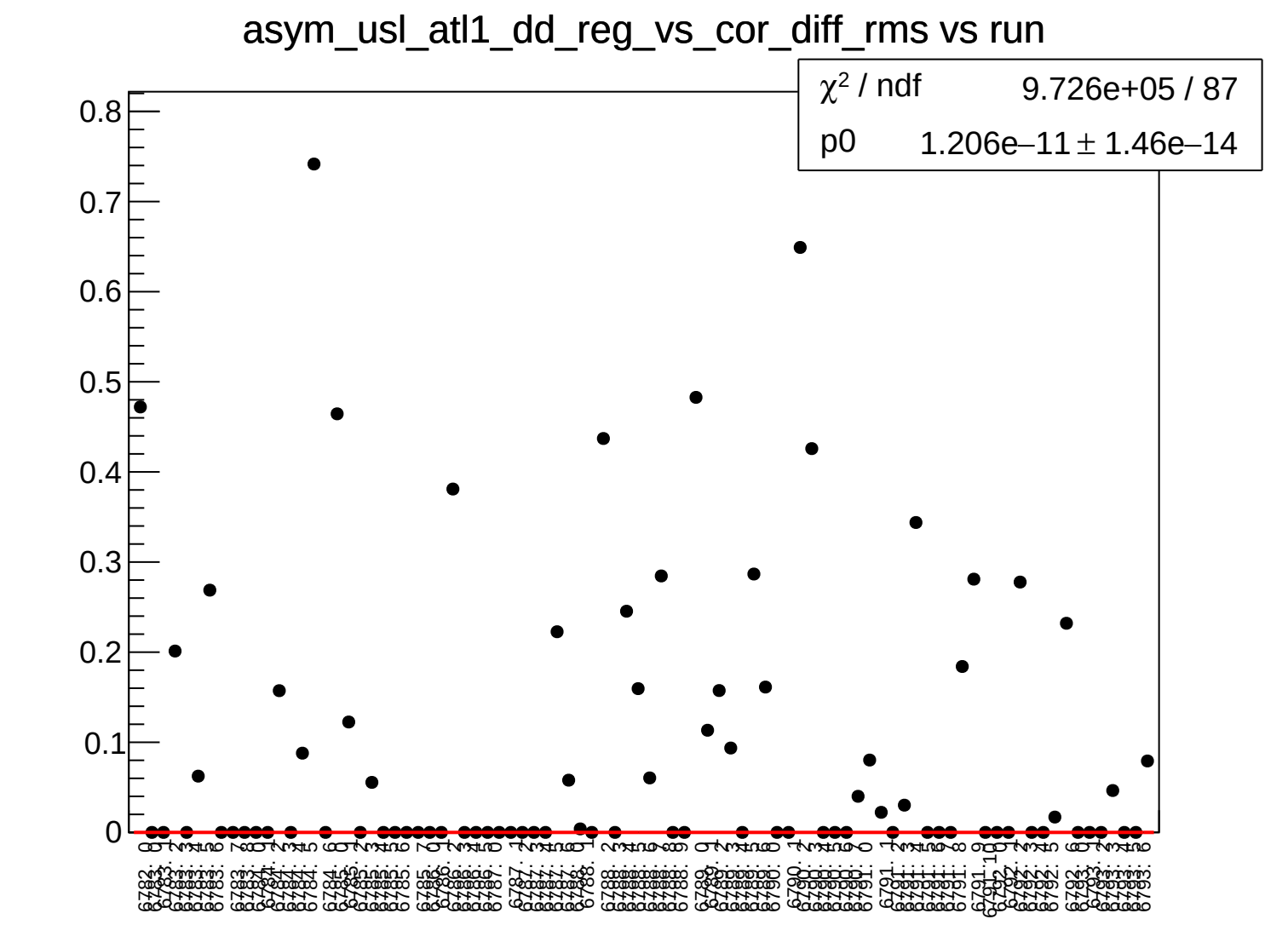

asym_usl_atl1_dd_mean vs run
χ² / ndf 94.29 / 87
p0 1645 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −508.4
Std Dev 0
3
2
1
0
−1
−2

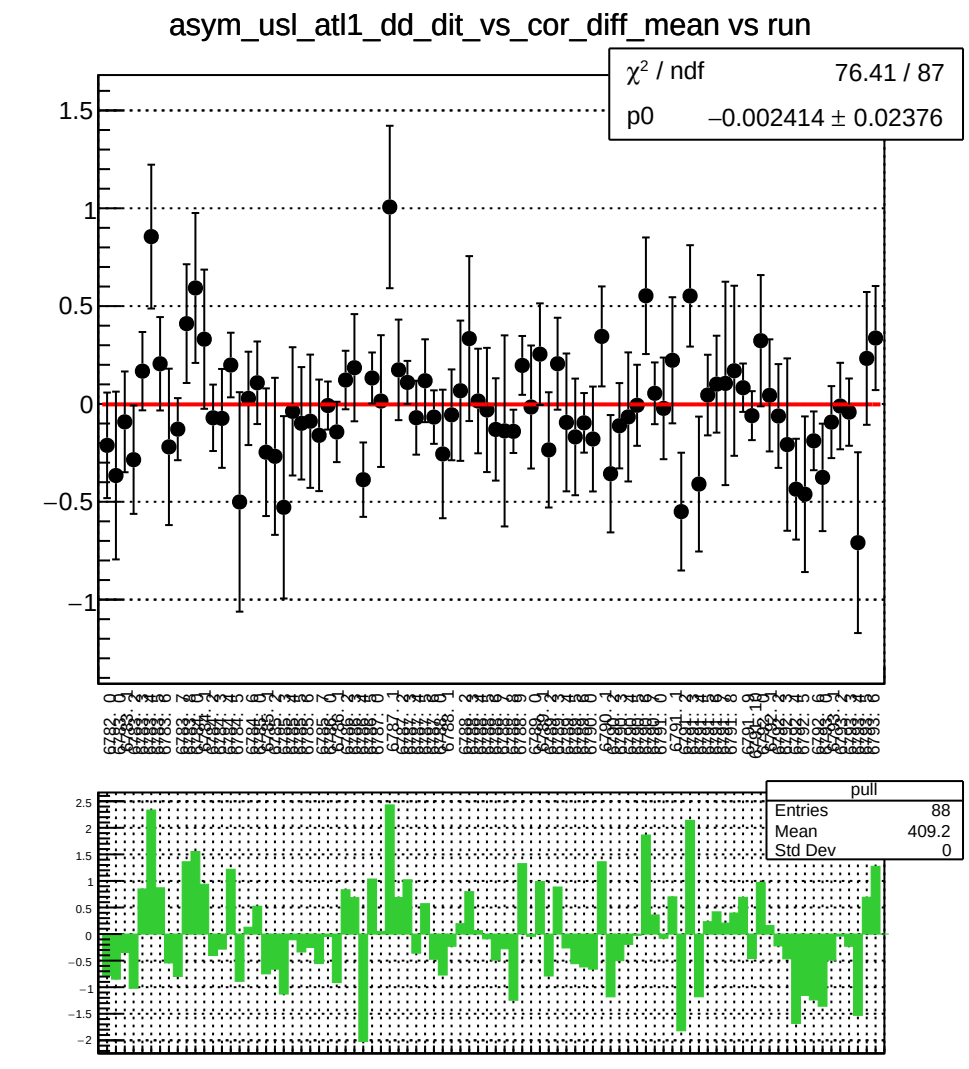

pull1D
Entries 88
Mean 0.007922
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

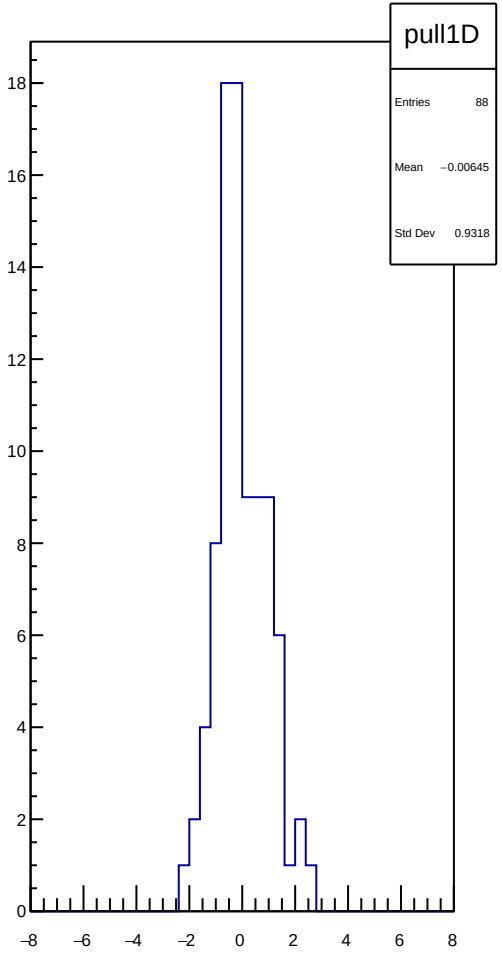

asym_usl_atl1_dd_rms vs run
χ² / ndf 100.5 / 87
p0 1244 ± 0.9667
1290
1280
1270
1260
1250
1240
1230
1220
1210

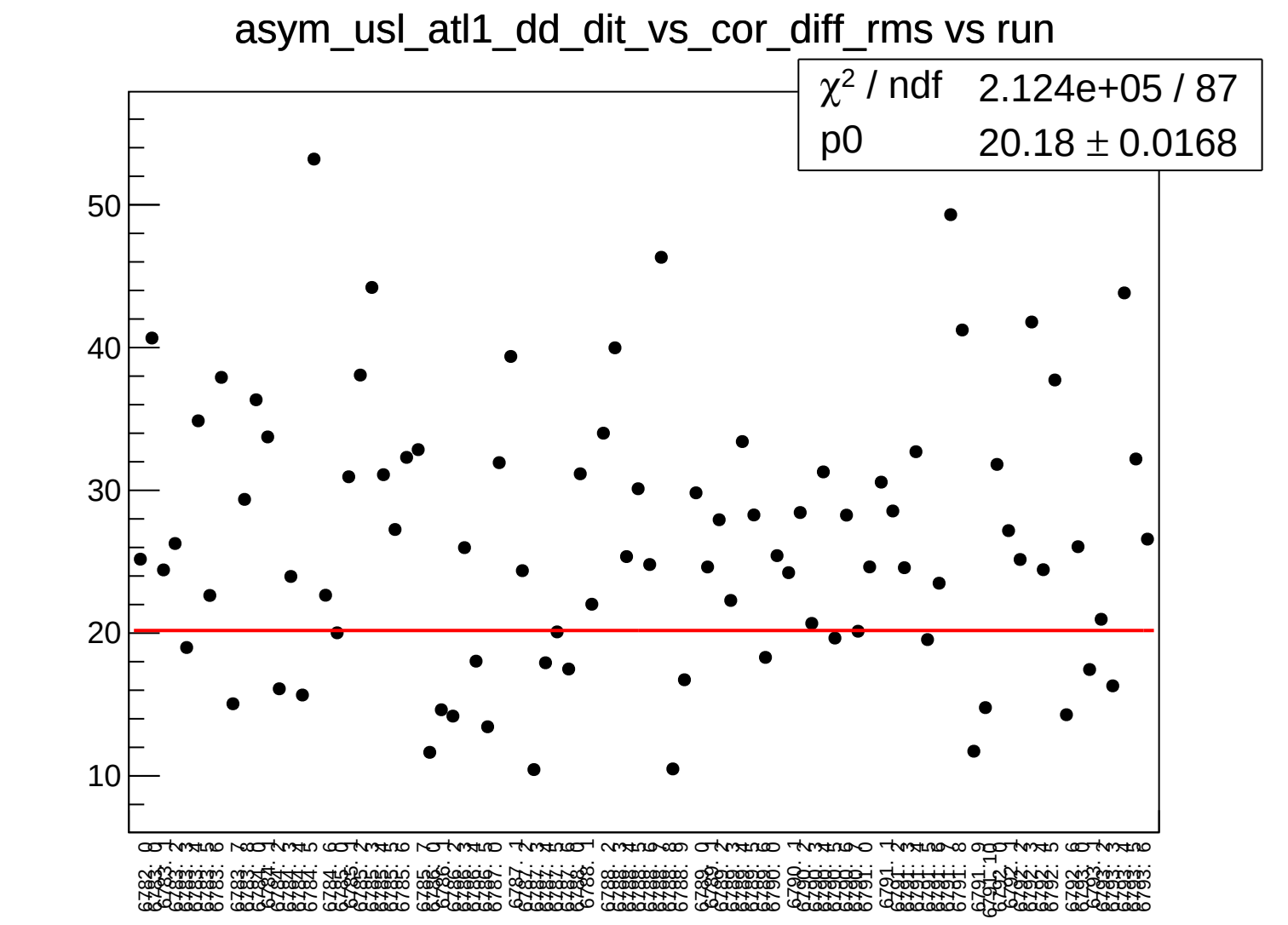

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100 / 87
p0 1.558e−14 ± 2.065e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 0.07178
Std Dev 0
3
2
1
0
−1
−2

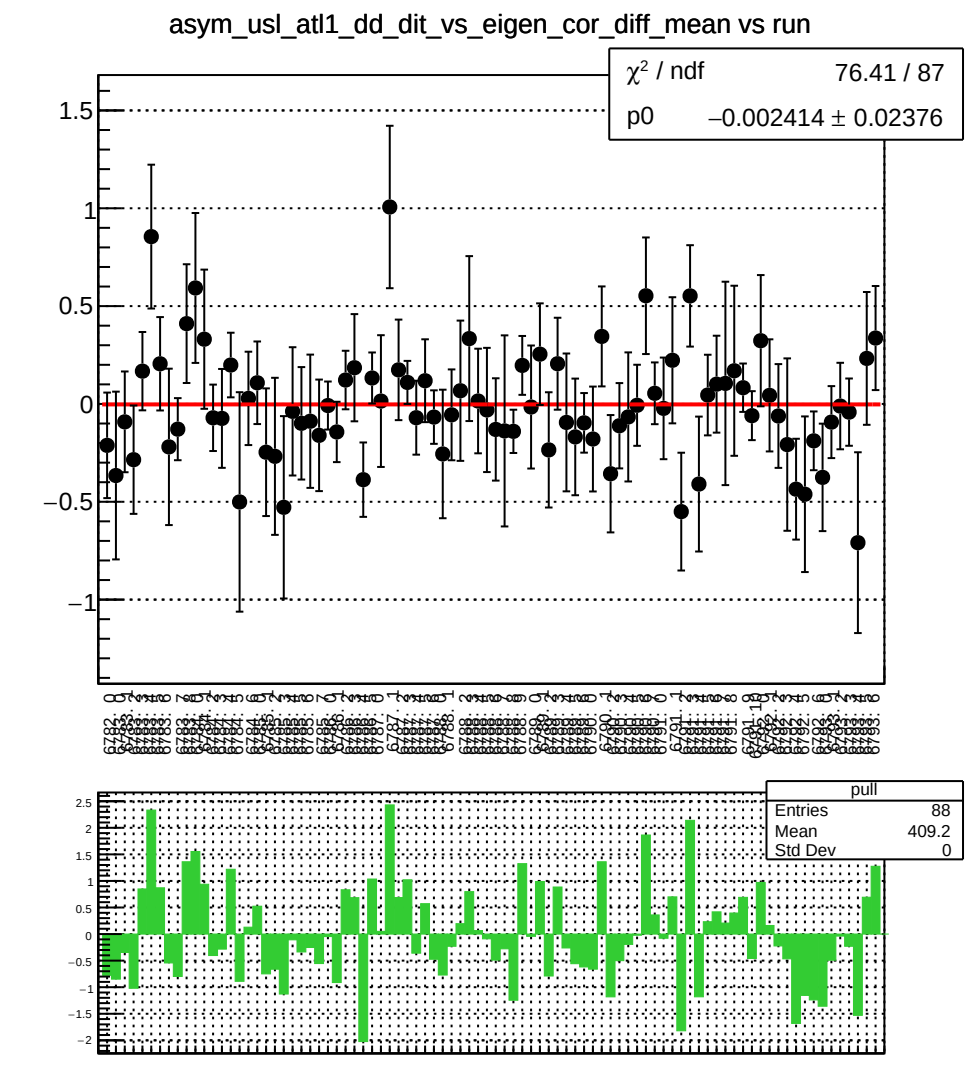

pull1D
Entries 88
Mean −0.1414
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

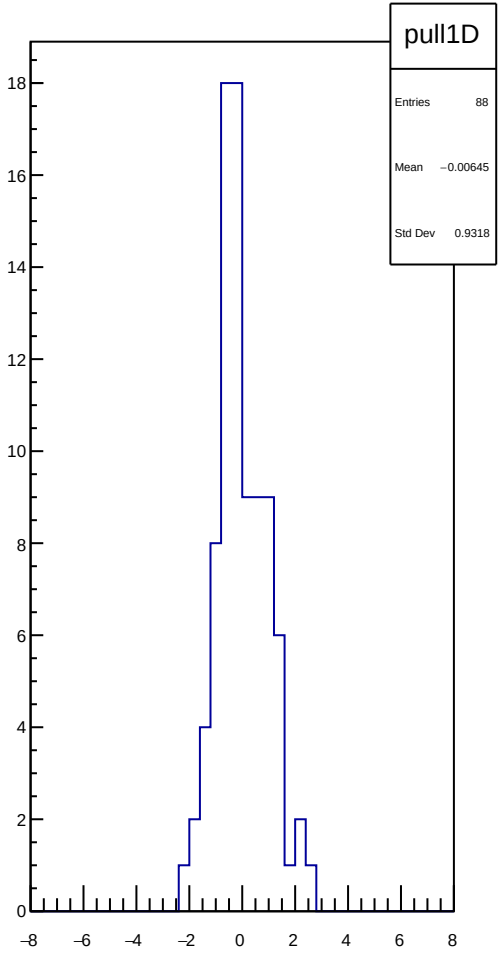

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.726e+05 / 87
p0 1.206e−11 ± 1.46e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

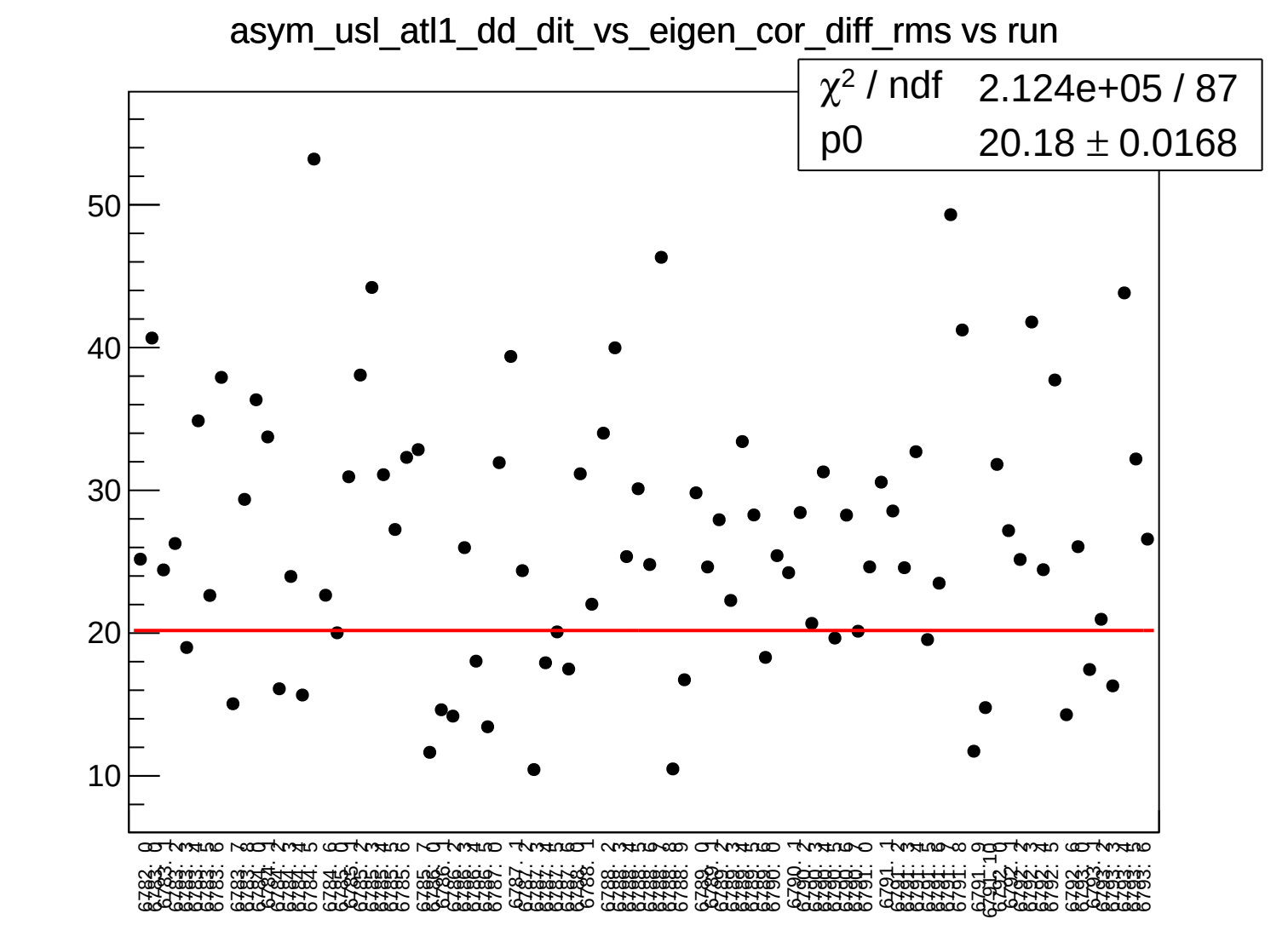

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.41 / 87
p0 −0.002414 ± 0.02376
pull
Entries 88
Mean 409.2
Std Dev 0

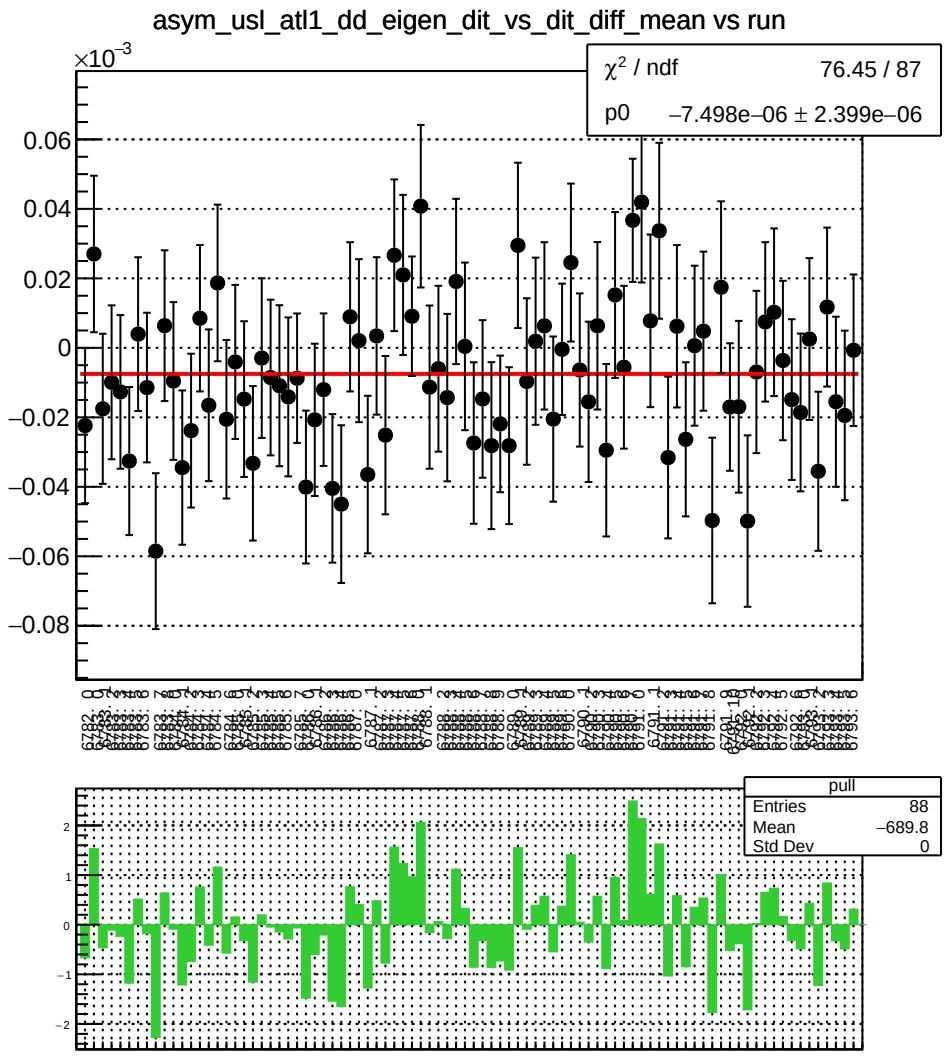

pull1D
Entries 88
Mean −0.00645
Std Dev 0.9318

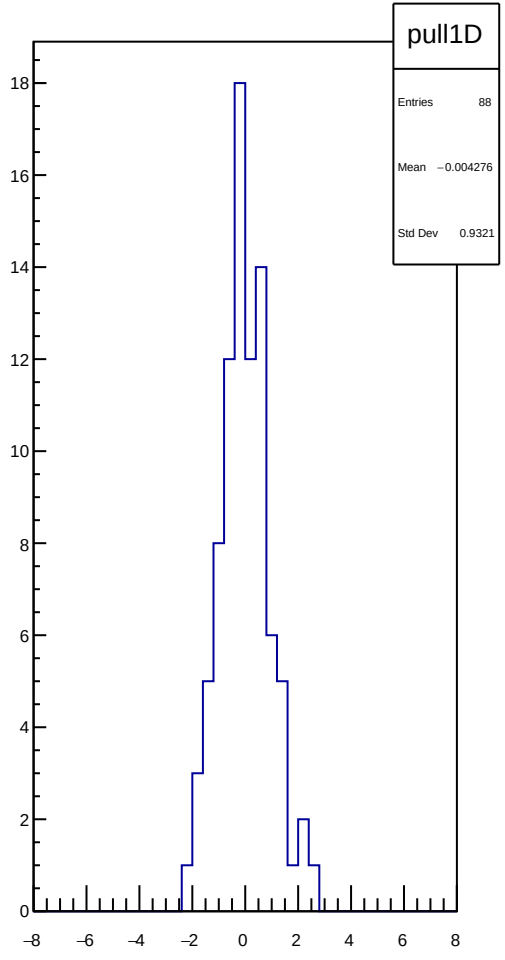

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 87
p0 20.18 ± 0.0168
50
40
30
20
10

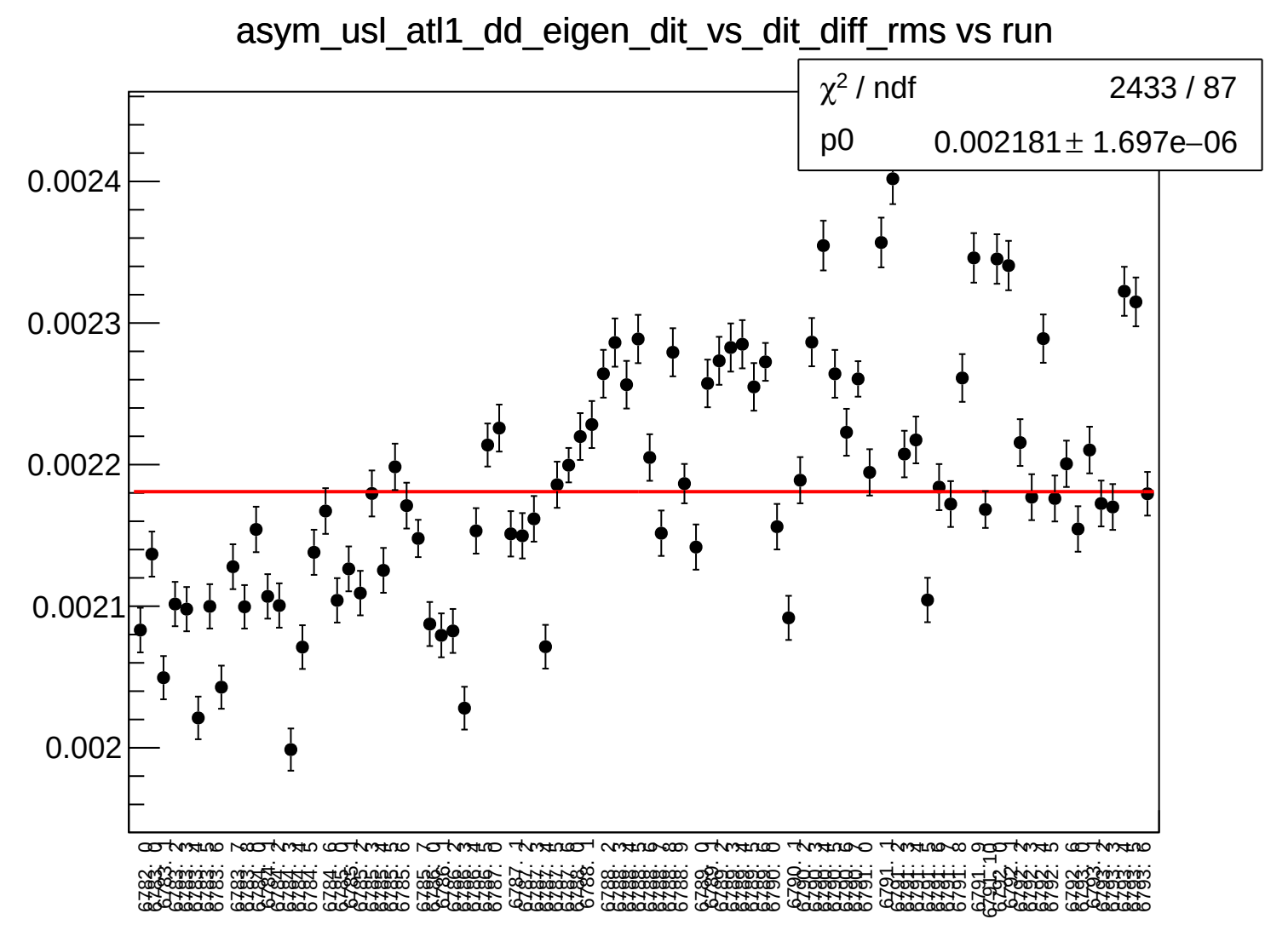

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.41 / 87
p0 −0.002414 ± 0.02376
pull
Entries 88
Mean 409.2
Std Dev 0

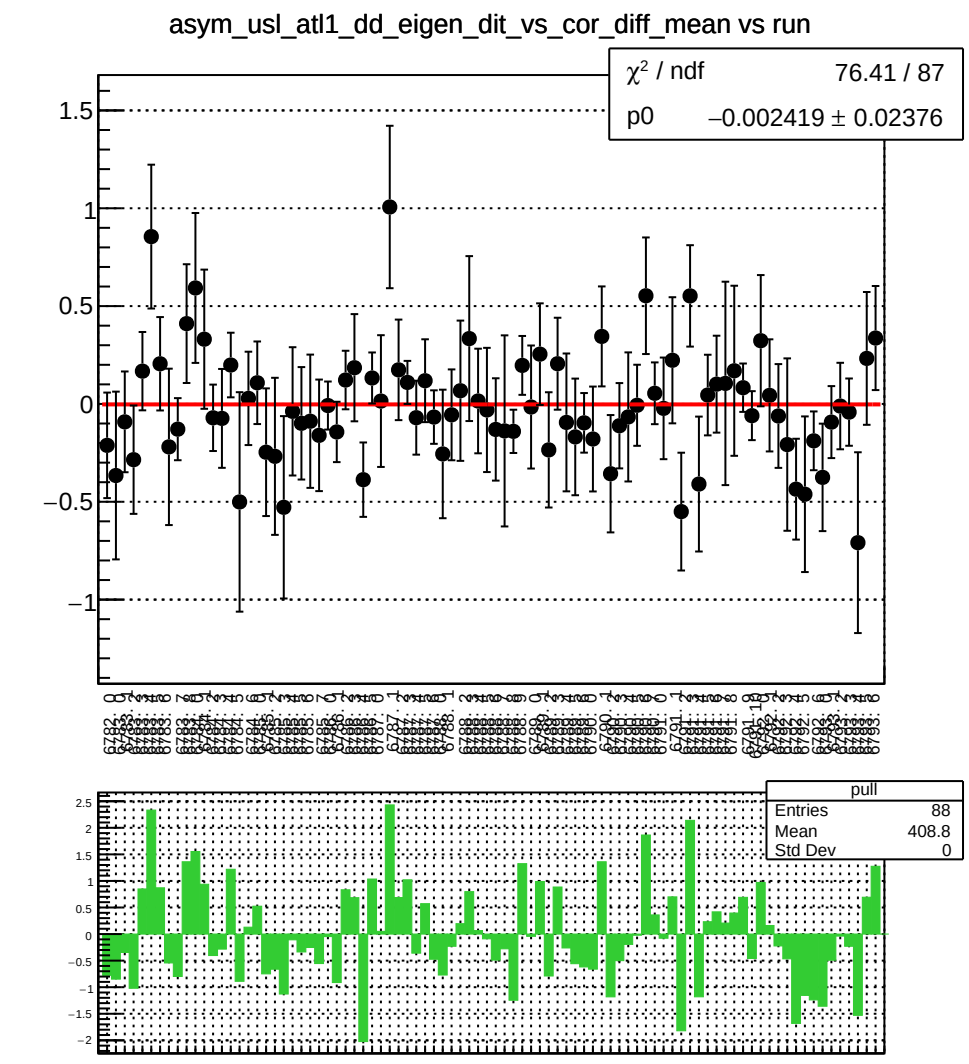

pull1D
Entries 88
Mean −0.00645
Std Dev 0.9318

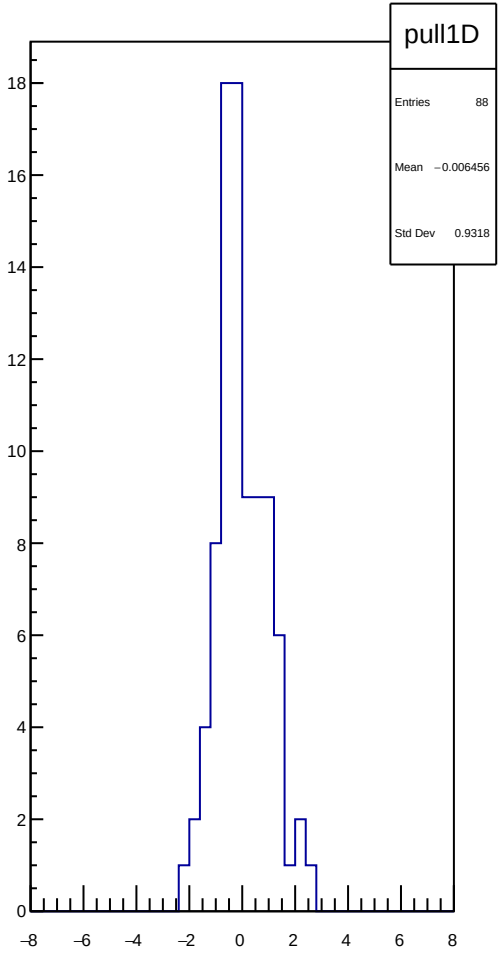

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 87
p0 20.18 ± 0.0168
50
40
30
20
10

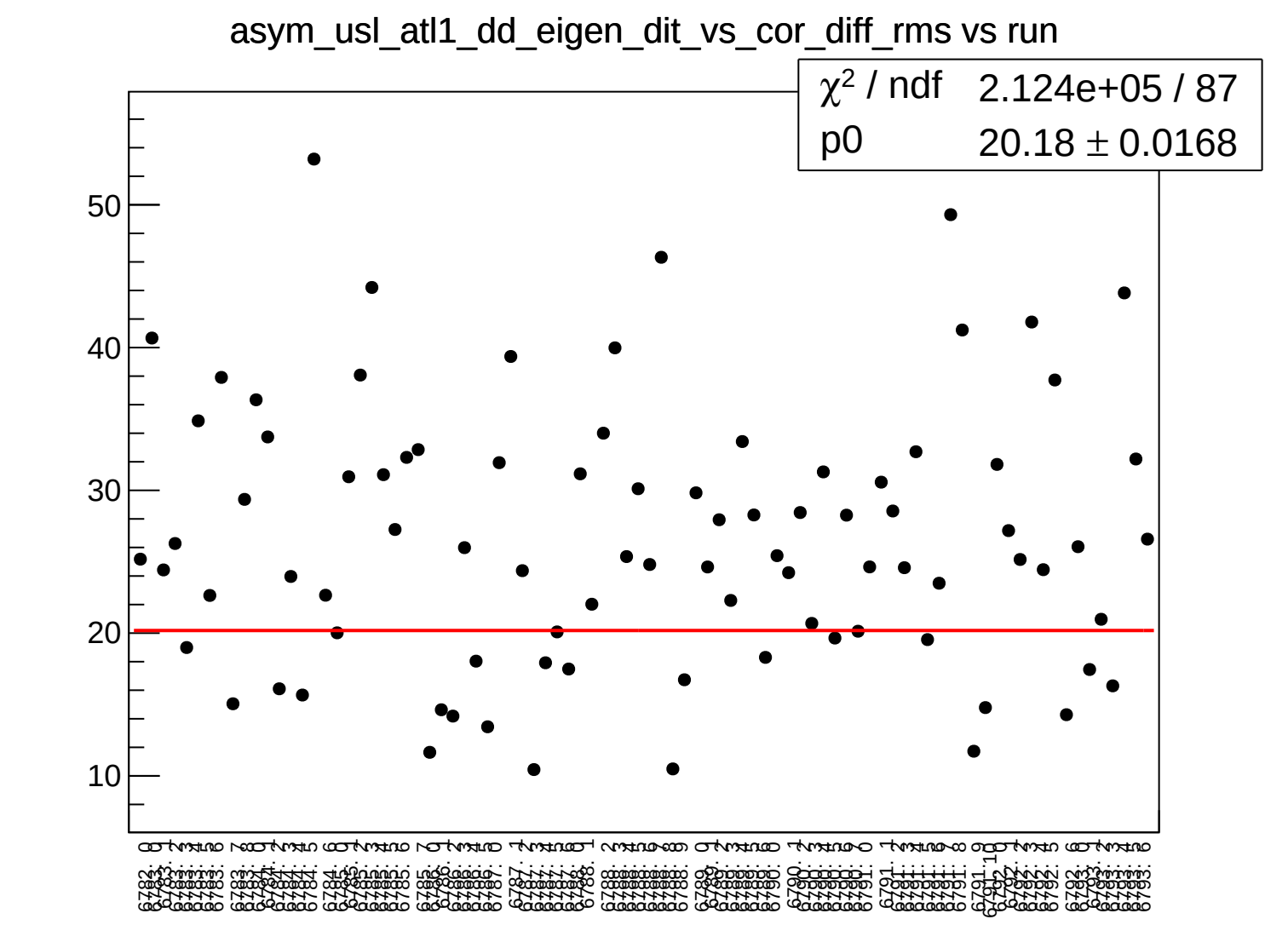

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.45 / 87
p0 −7.498e−06 ± 2.399e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean −689.8
Std Dev 0
2
1
0
−1
−2

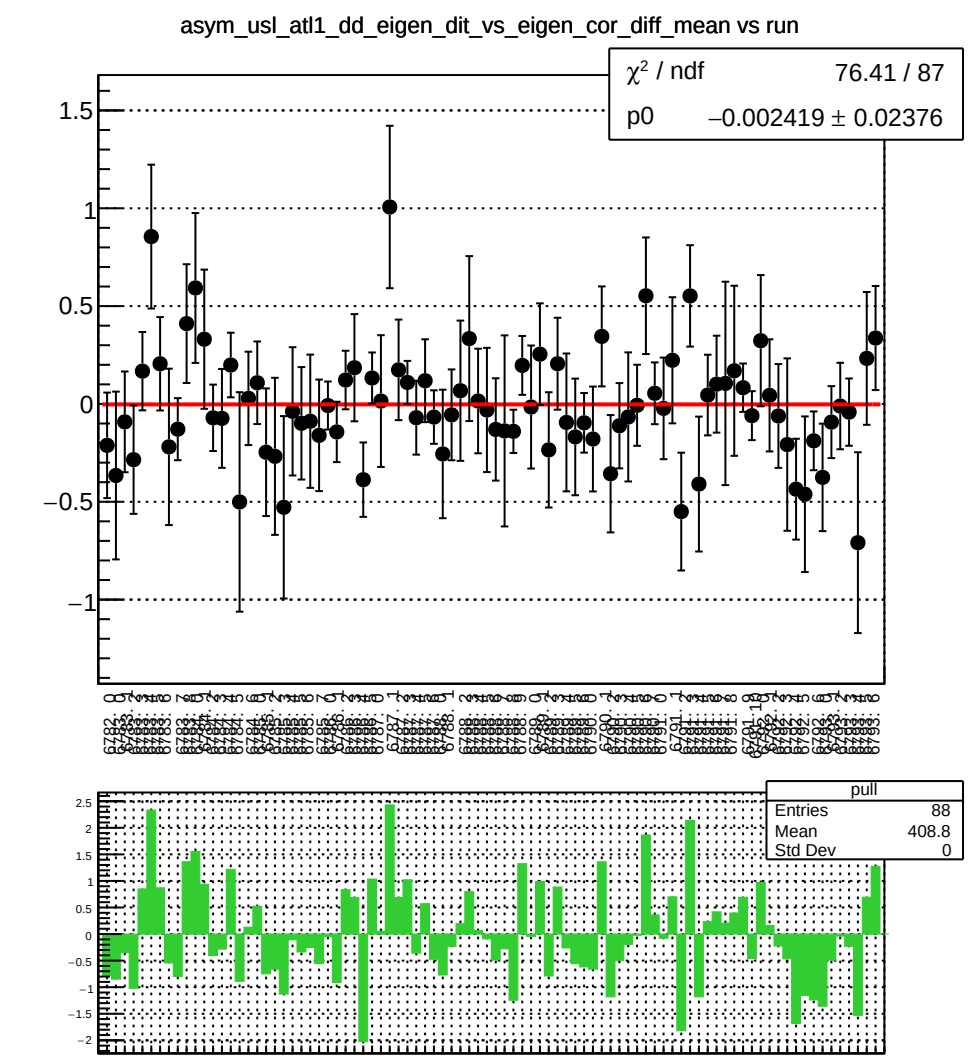

pull1D
Entries 88
Mean −0.004276
Std Dev 0.9321
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

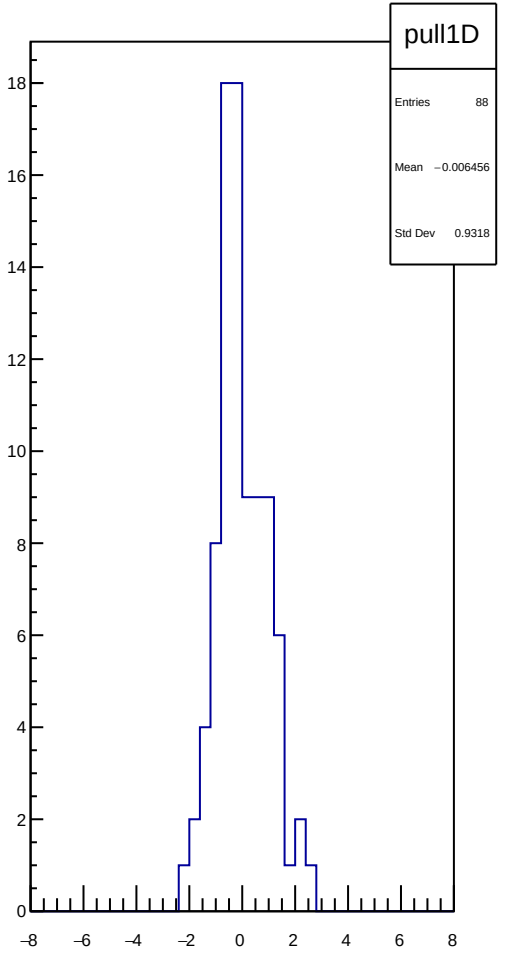

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2433 / 87
p0 0.002181 ± 1.697e−06
0.0024
0.0023
0.0022
0.0021
0.002

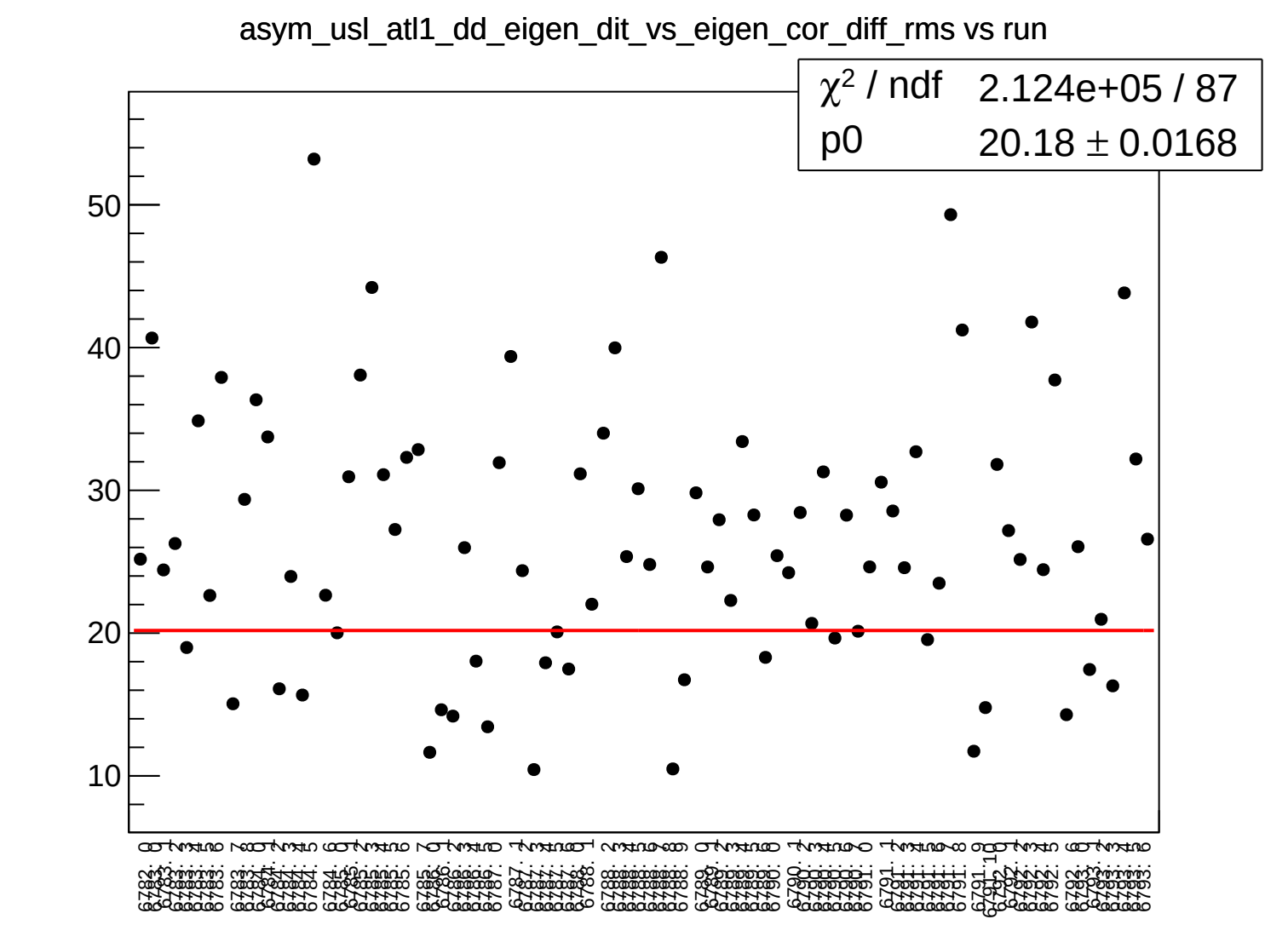

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.41 / 87
p0 −0.002419 ± 0.02376
pull
Entries 88
Mean 408.8
Std Dev 0

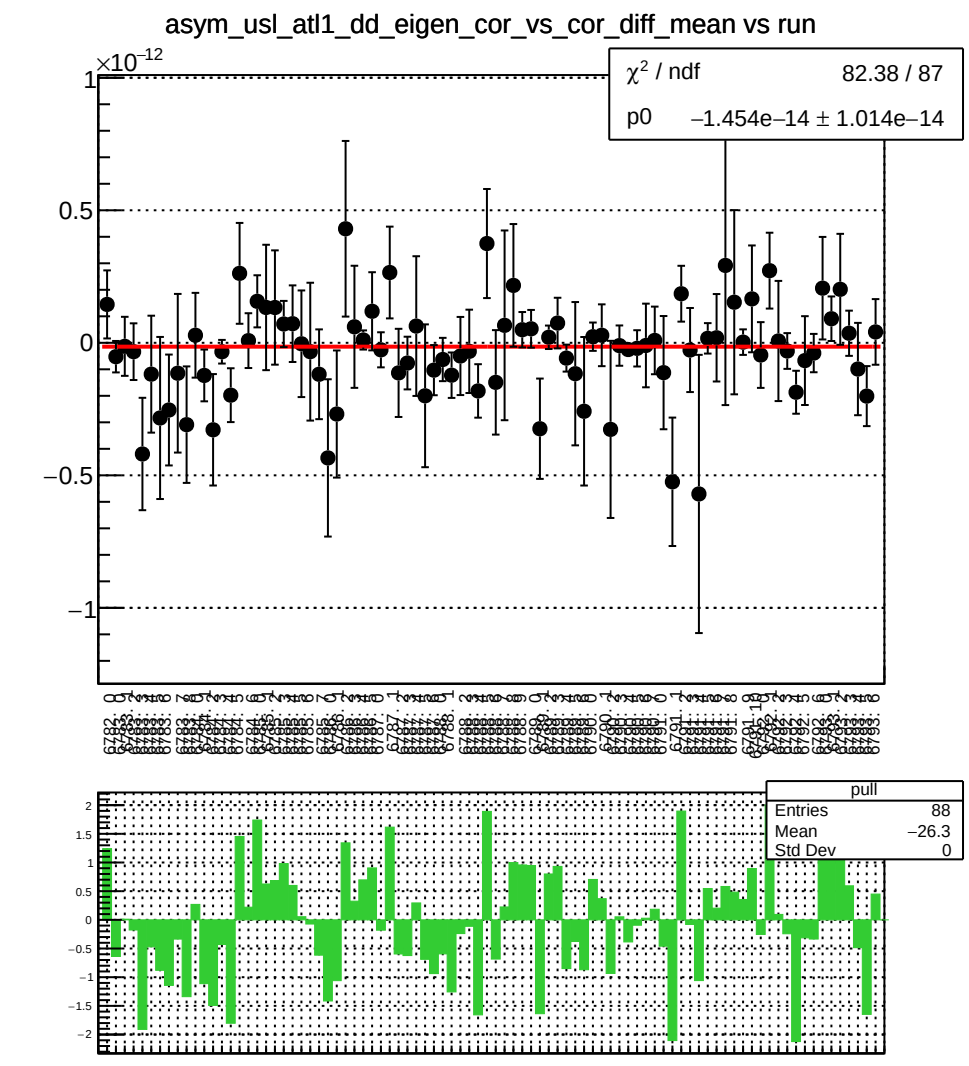

pull1D
Entries 88
Mean −0.006456
Std Dev 0.9318

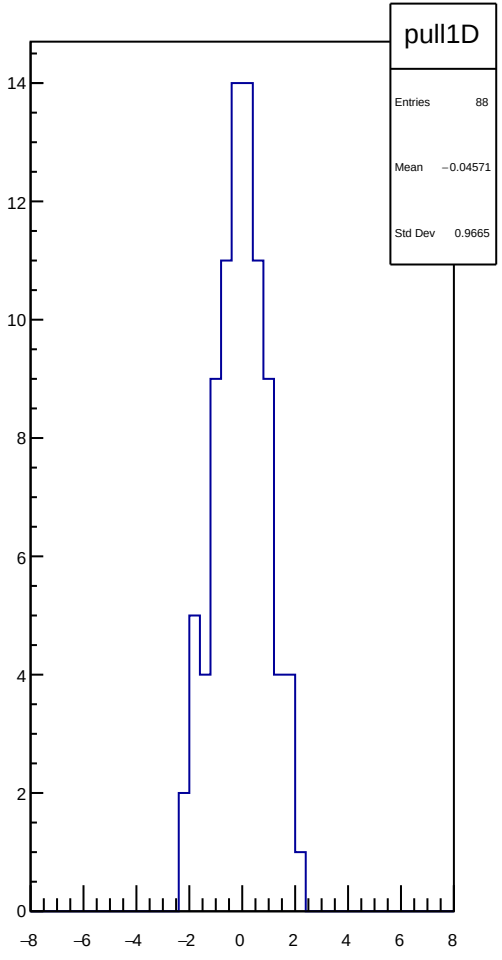

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 87
p0 20.18 ± 0.0168
50
40
30
20
10

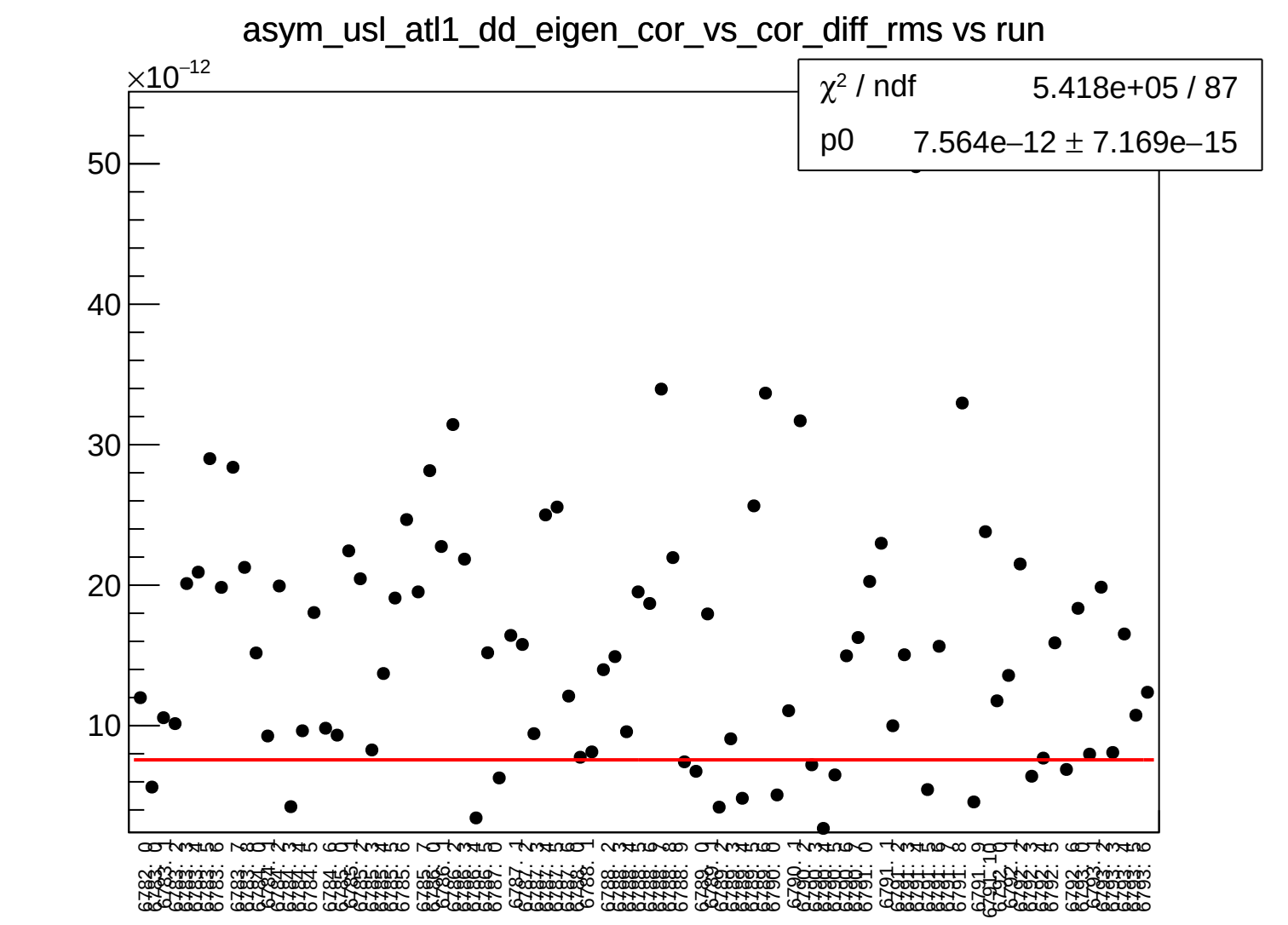

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.41 / 87
p0 −0.002419 ± 0.02376
pull
Entries 88
Mean 408.8
Std Dev 0

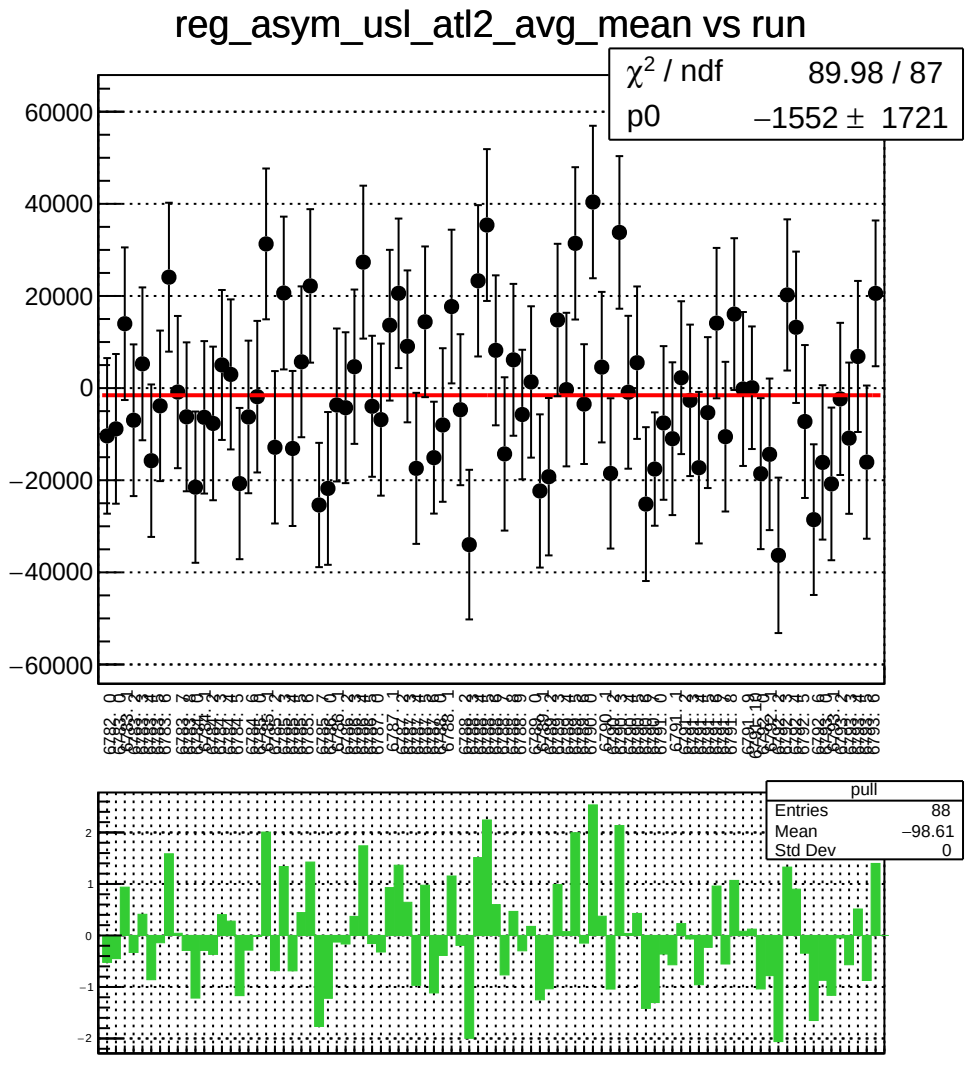

pull1D
Entries 88
Mean −0.006456
Std Dev 0.9318

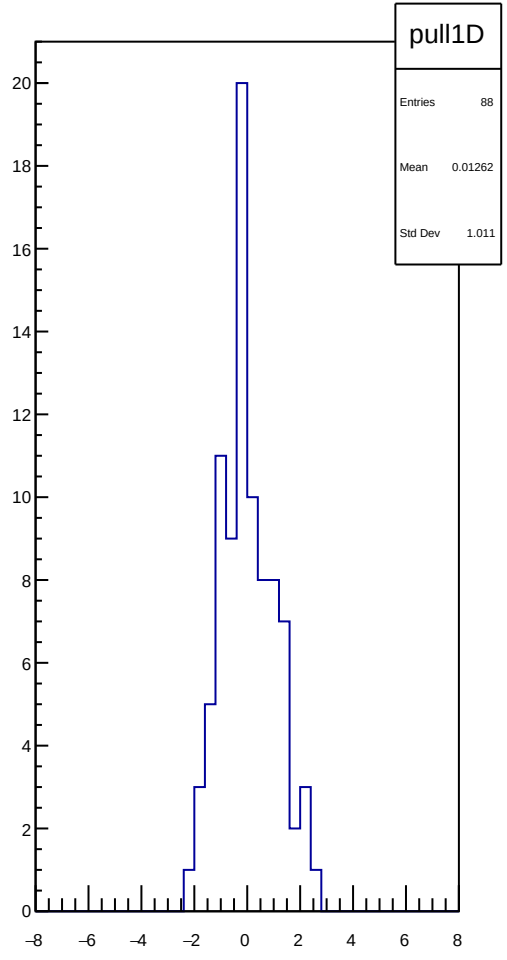

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 87
p0 20.18 ± 0.0168
50
40
30
20
10

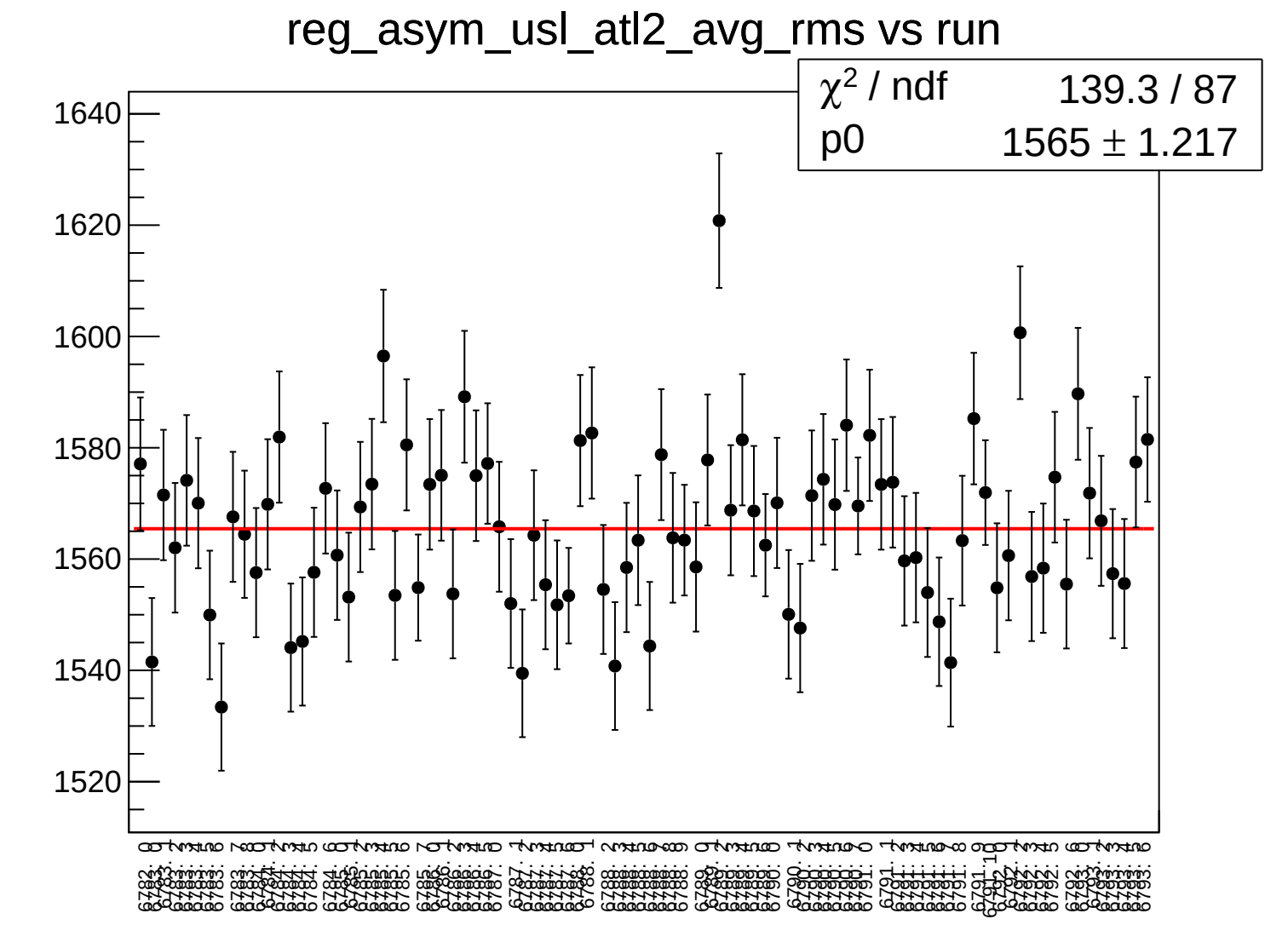

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.38 / 87
p0 −1.454e−14 ± 1.014e−14
pull
Entries 88
Mean −26.3
Std Dev 0

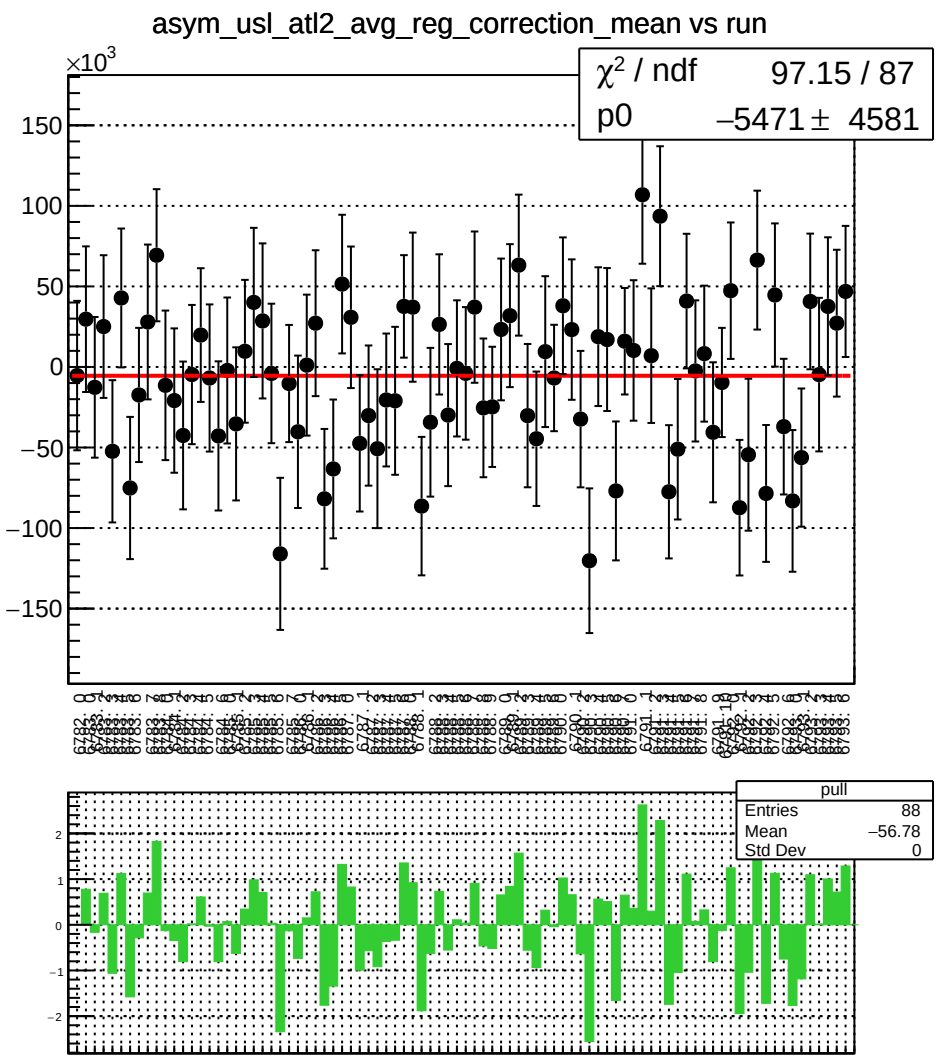

pull1D
Entries 88
Mean −0.04571
Std Dev 0.9665

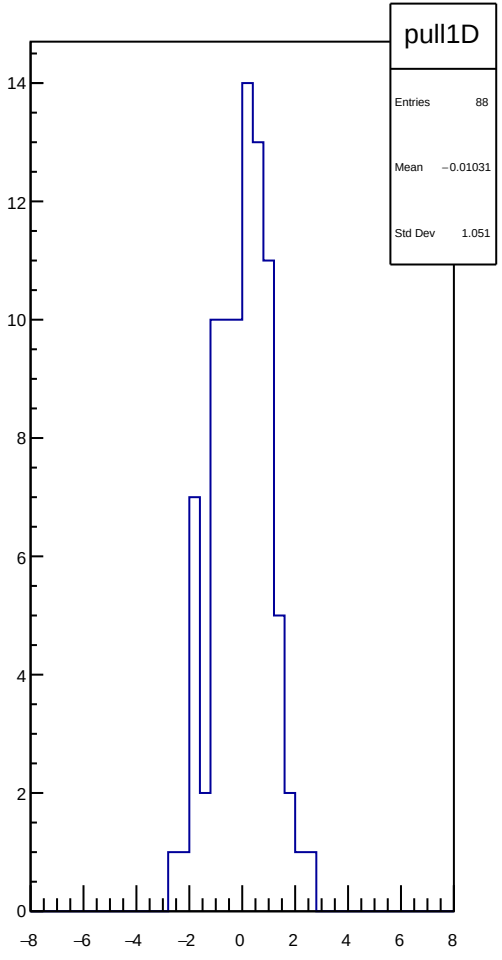

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.418e+05 / 87
p0 7.564e−12 ± 7.169e−15
50
40
30
20
10

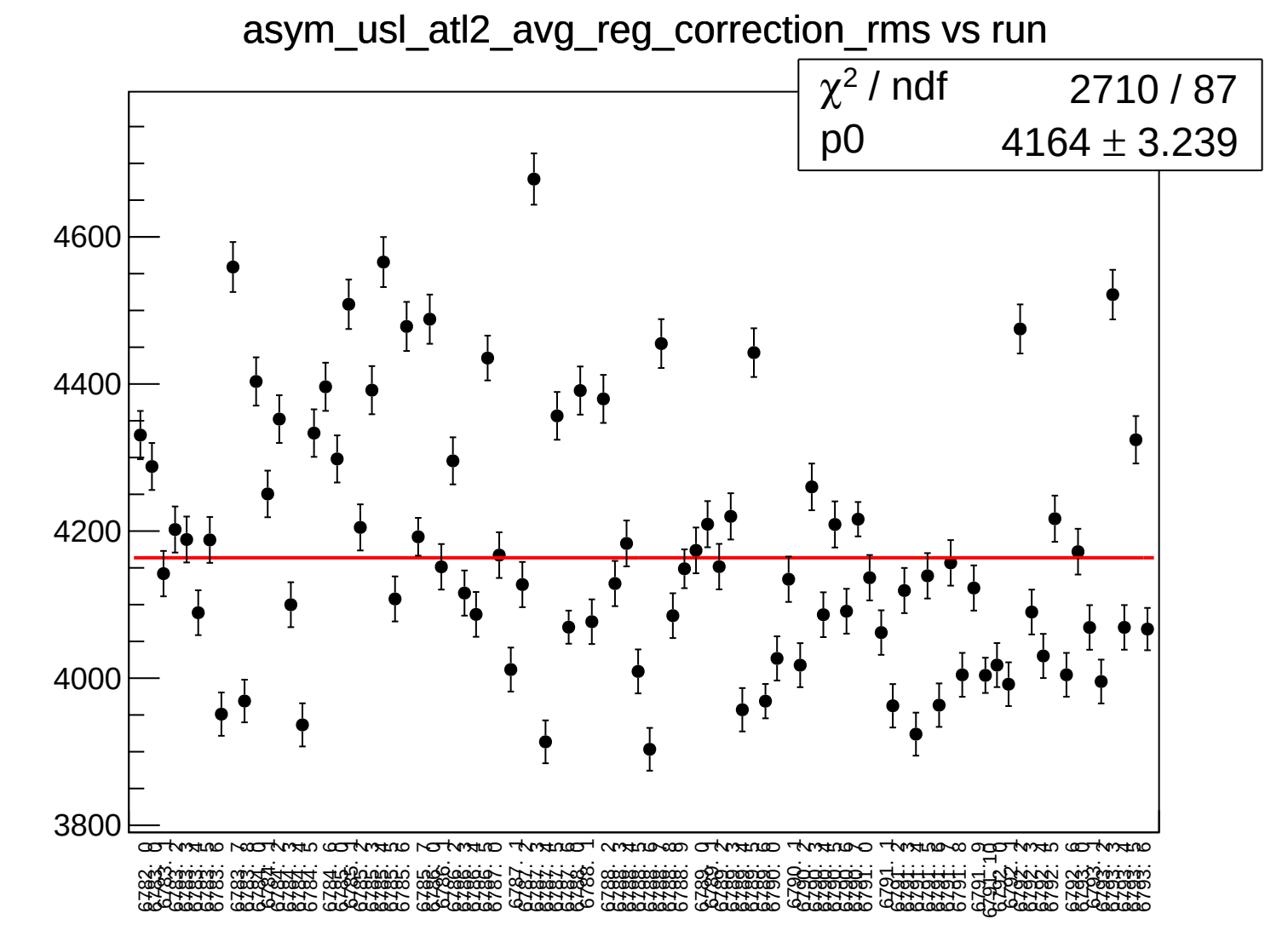

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 89.98 / 87
p0 −1552 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −98.61
Std Dev 0
2
1
0
−1
−2

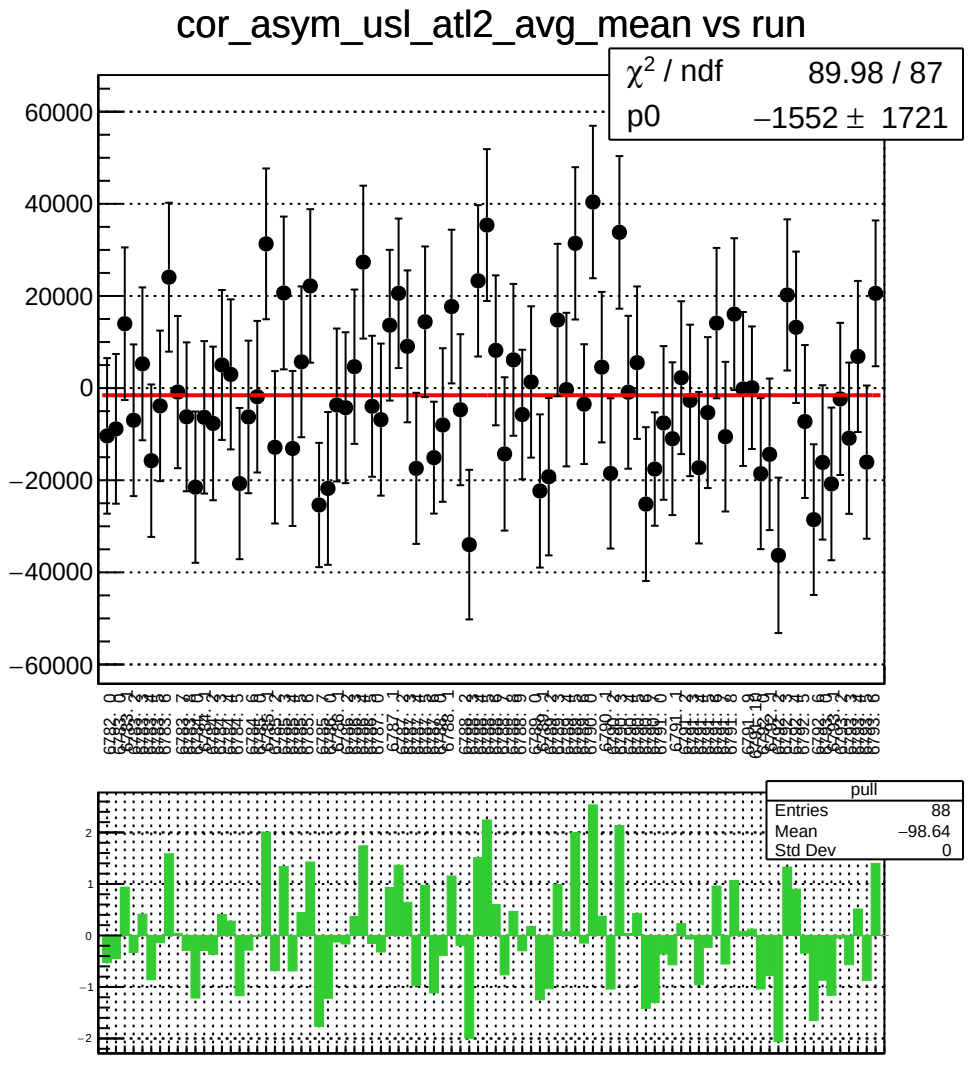

pull1D
Entries 88
Mean 0.01262
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

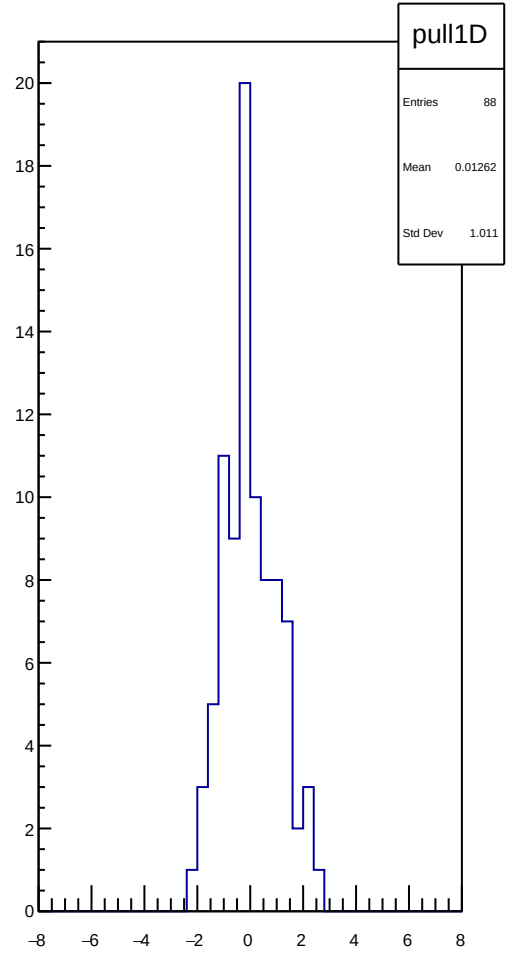

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 139.3 / 87
p0 1565 ± 1.217
1640
1620
1600
1580
1560
1540
1520


asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.15 / 87
p0 −5471 ± 4581
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −56.78
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.01031
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2710 / 87
p0 4164 ± 3.239
4600
4400
4200
4000
3800


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 89.98 / 87
p0 −1552 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −98.64
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01262
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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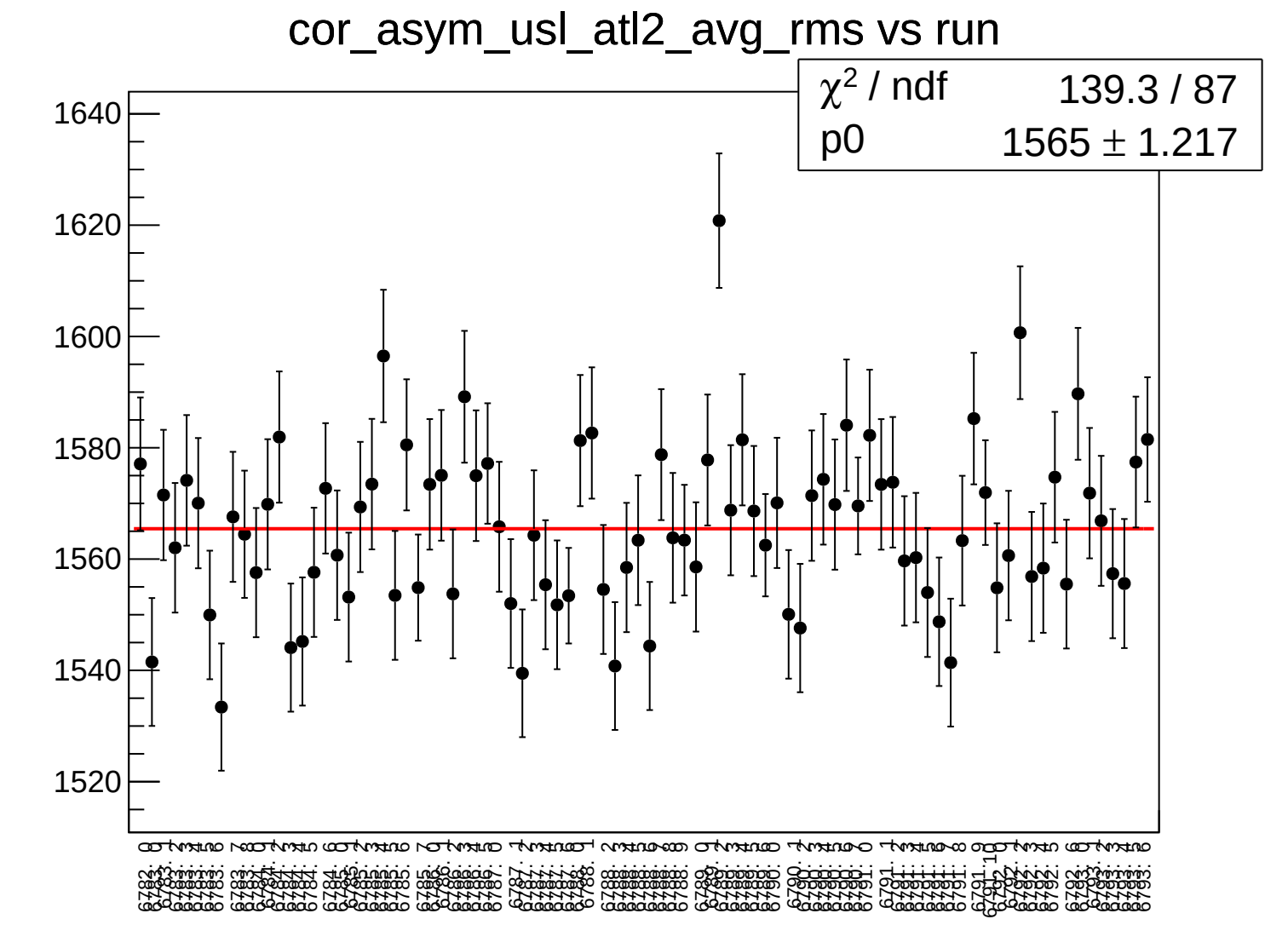
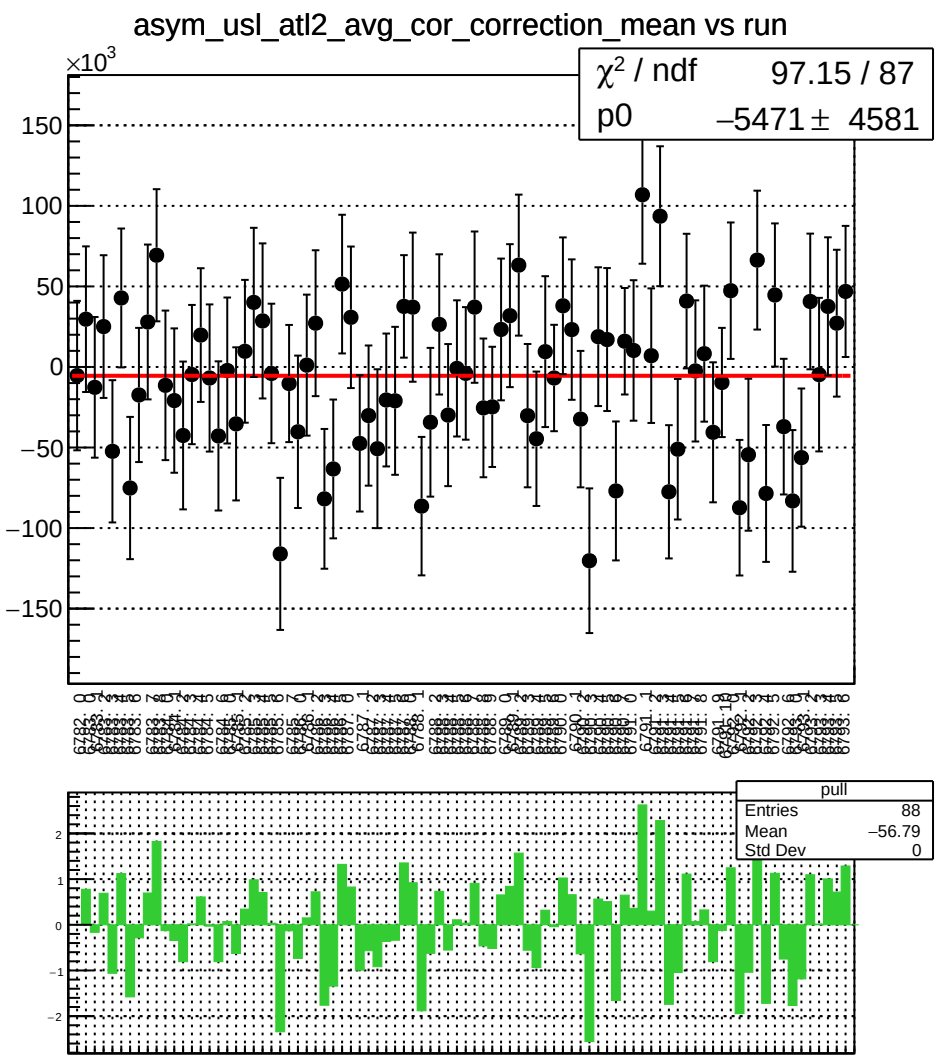
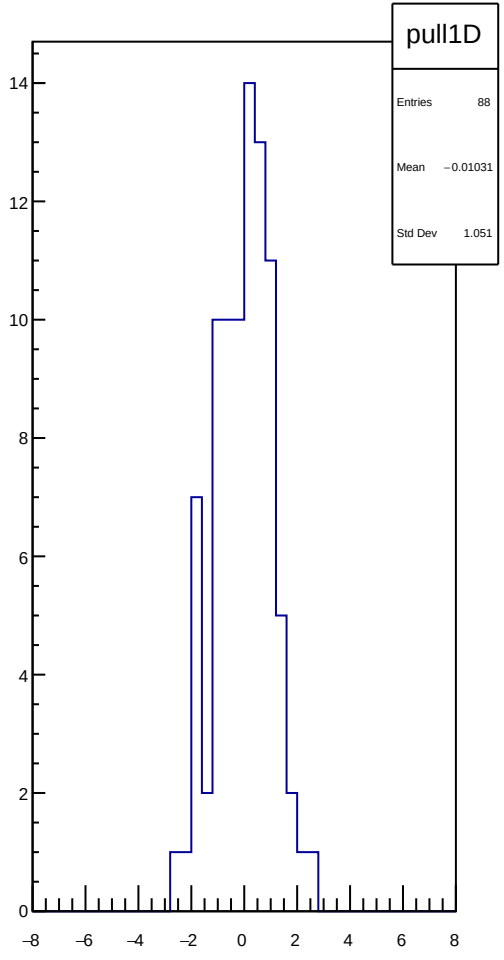
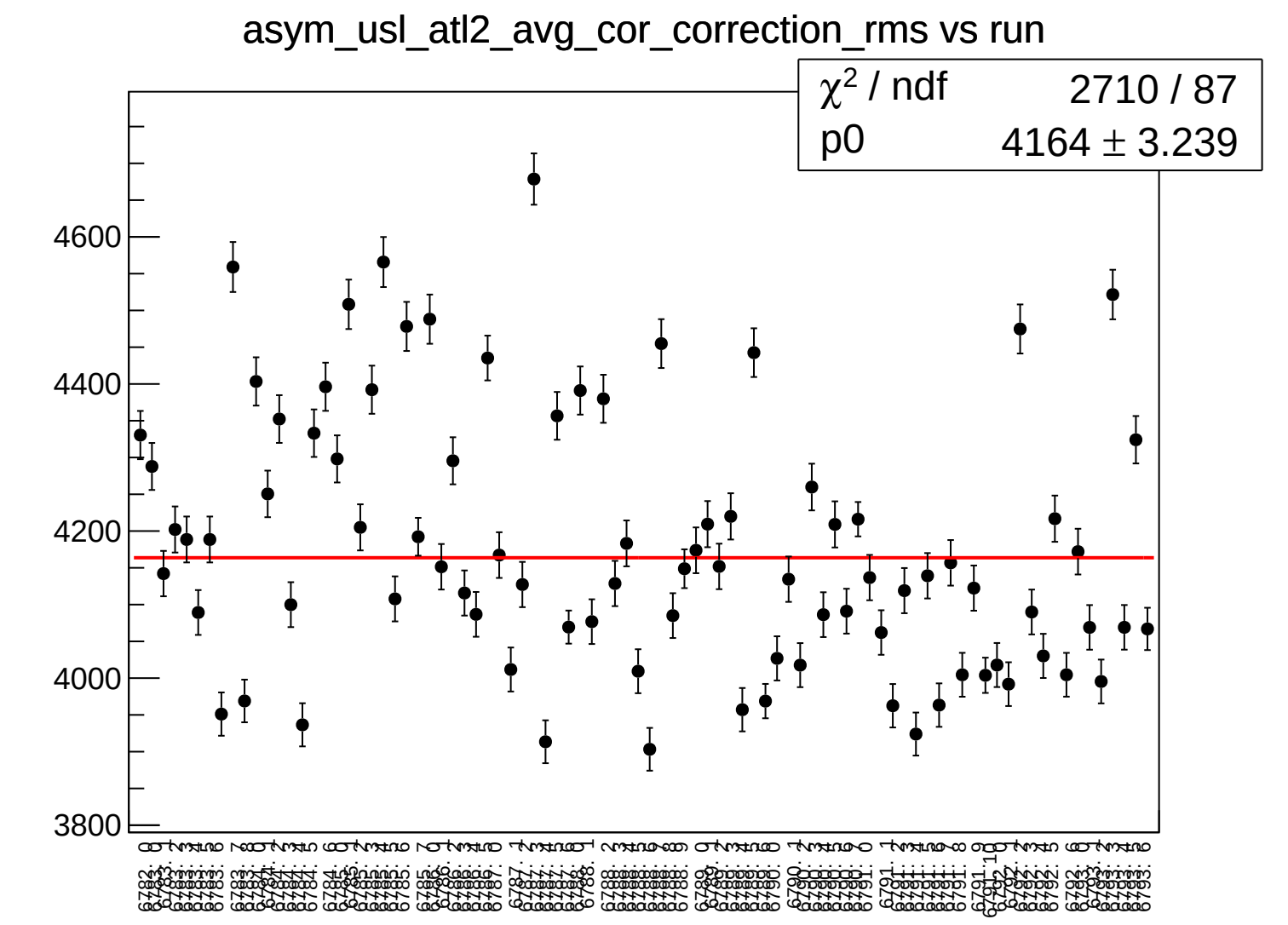
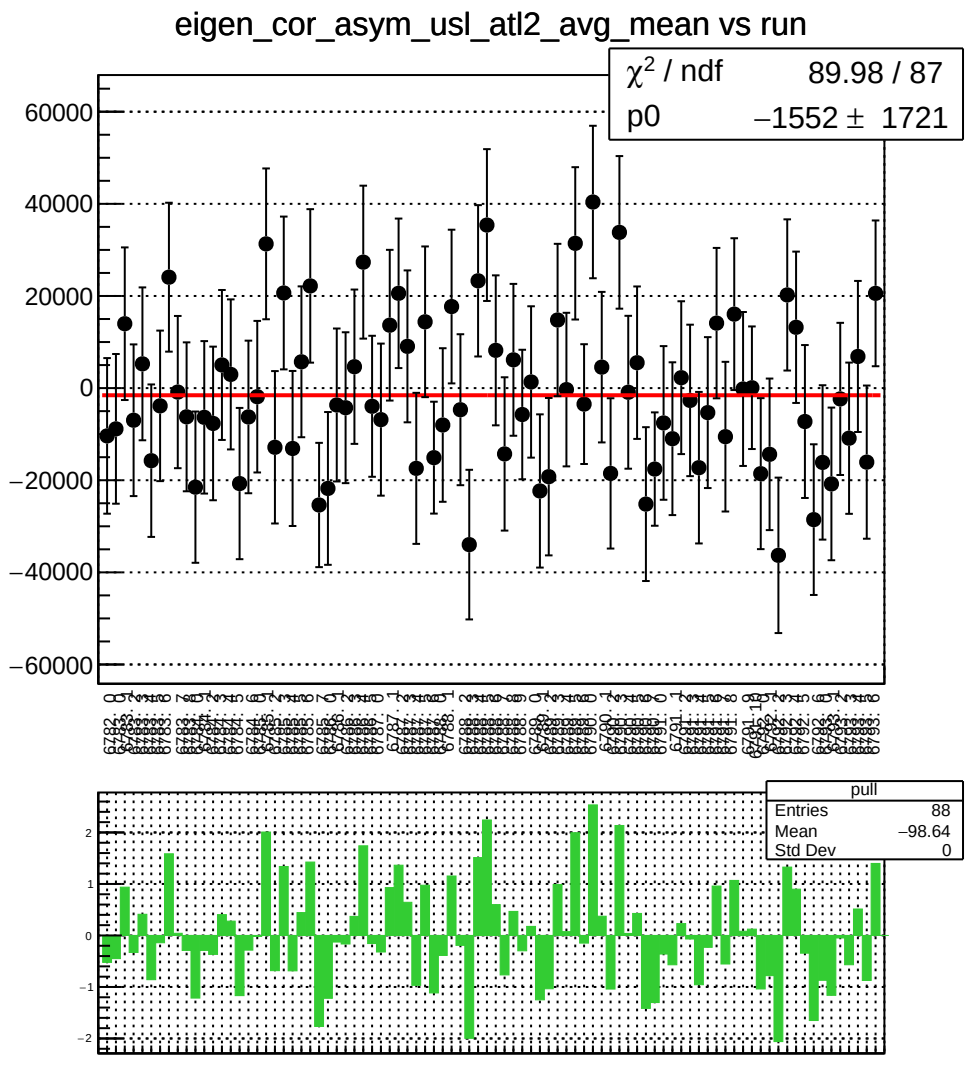
0
2
4
6
8

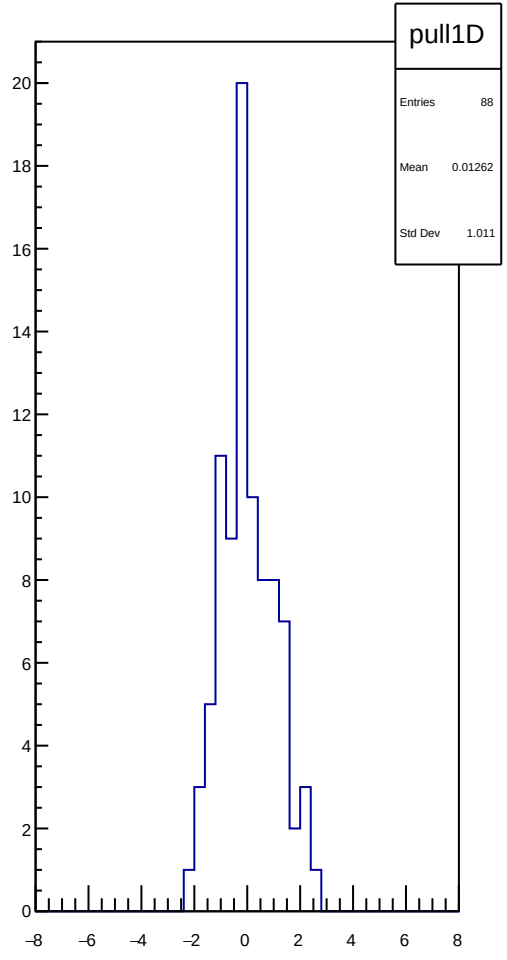

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 139.3 / 87
p0 1565 ± 1.217
1640
1620
1600
1580
1560
1540
1520

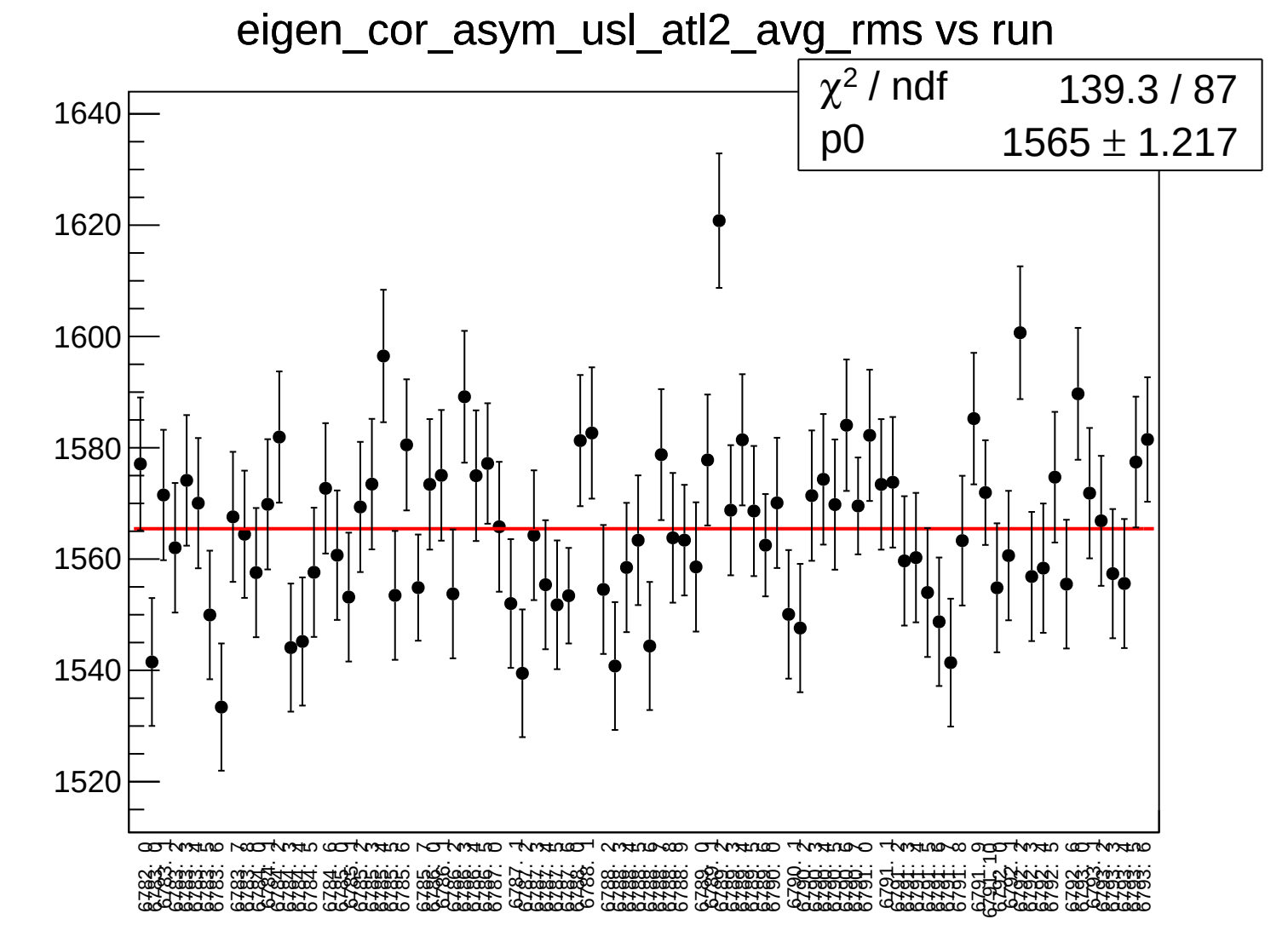

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.15 / 87
p0 −5471 ± 4581
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −56.79
Std Dev 0
2
1
0
−1
−2

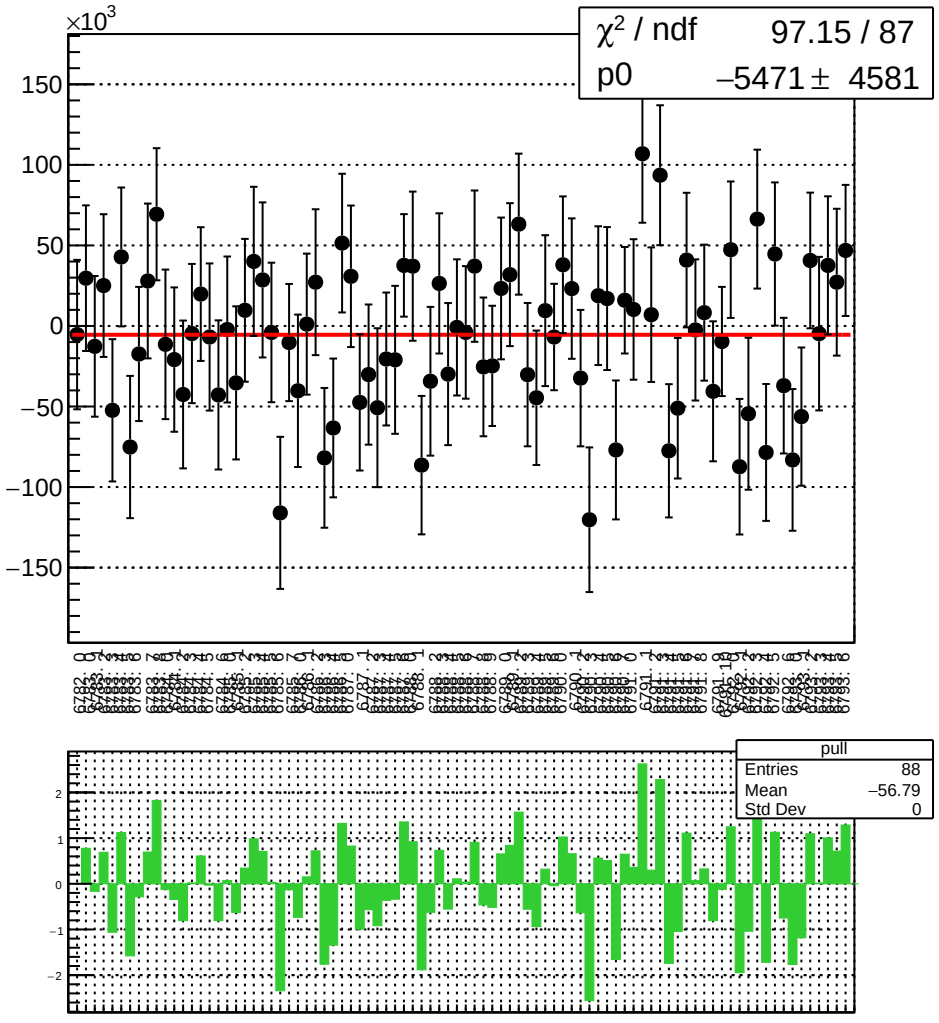

pull1D
Entries 88
Mean −0.01031
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

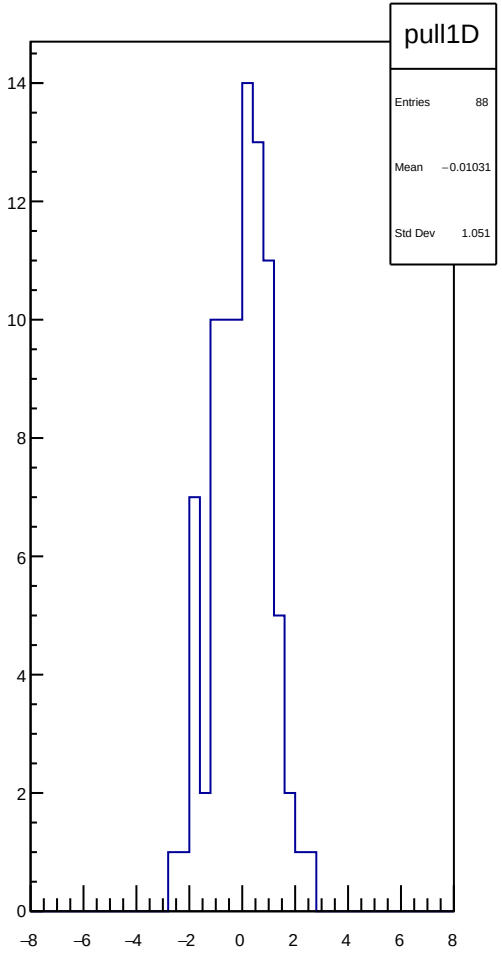

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2710 / 87
p0 4164 ± 3.239
4600
4400
4200
4000
3800

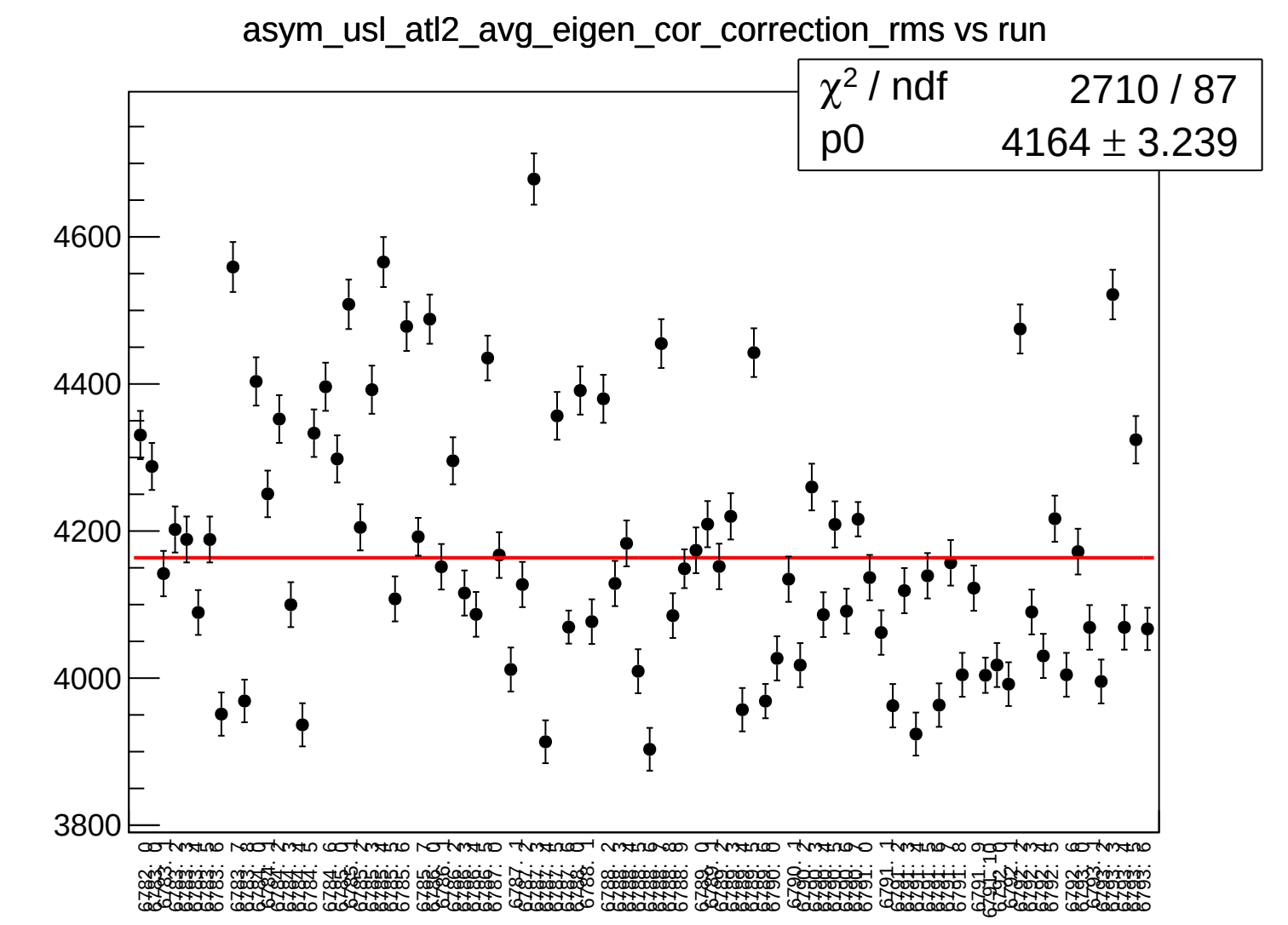

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 89.98 / 87
p0 −1552 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −98.64
Std Dev 0
2
1
0
−1
−2

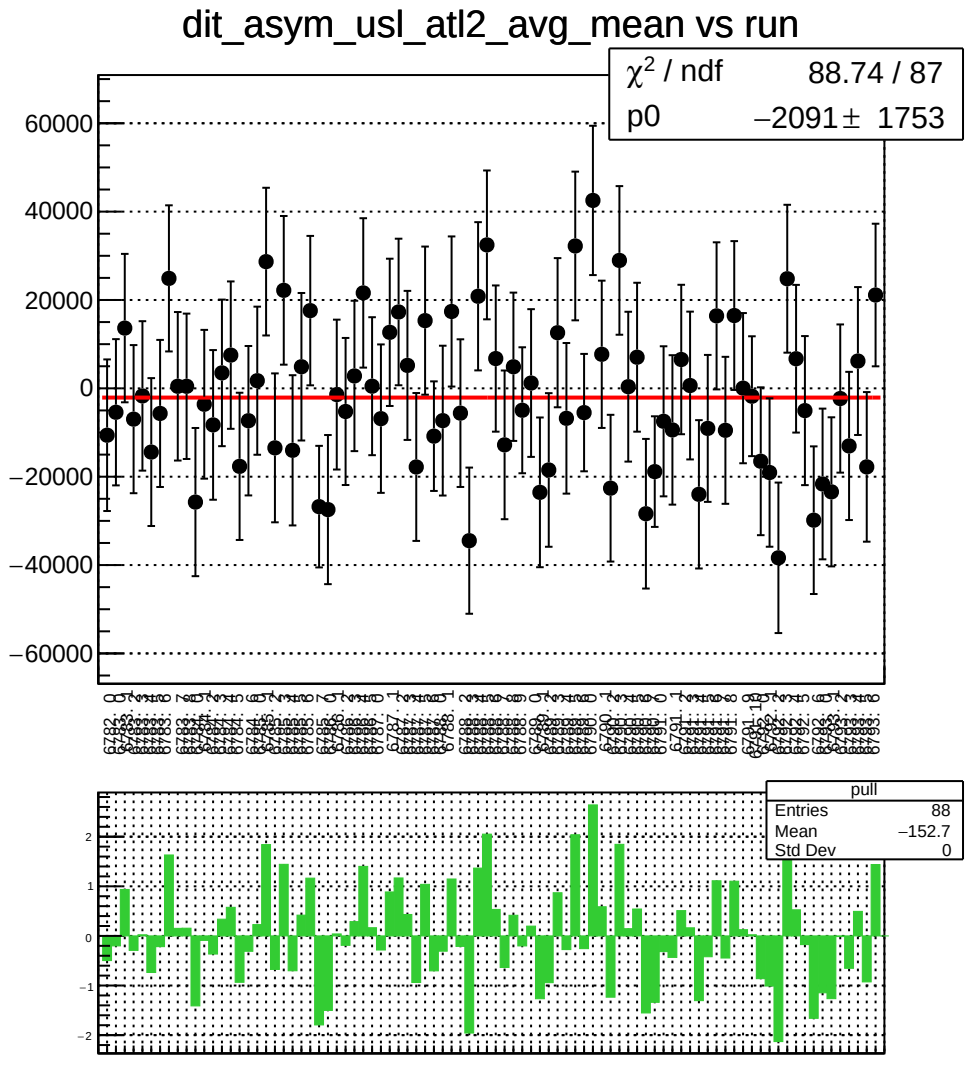

pull1D
Entries 88
Mean 0.01262
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

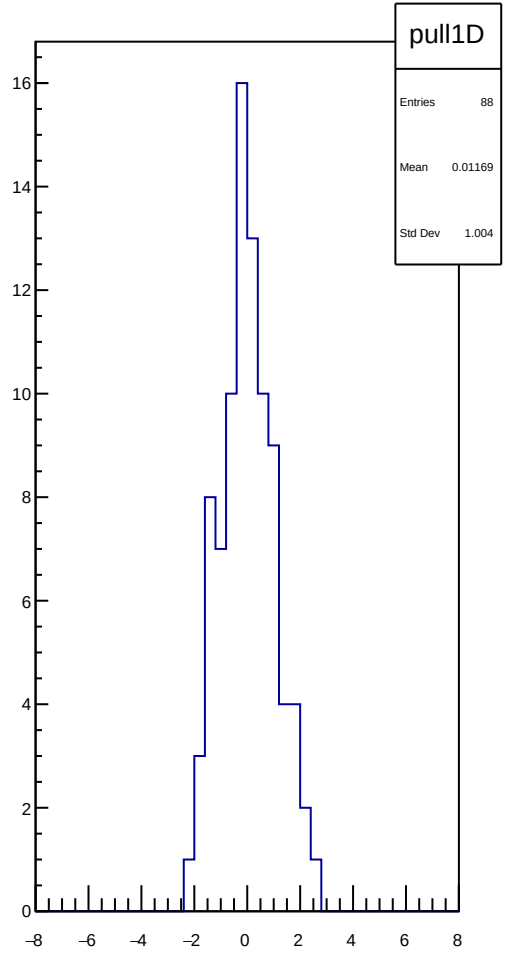

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 139.3 / 87
p0 1565 ± 1.217
1640
1620
1600
1580
1560
1540
1520

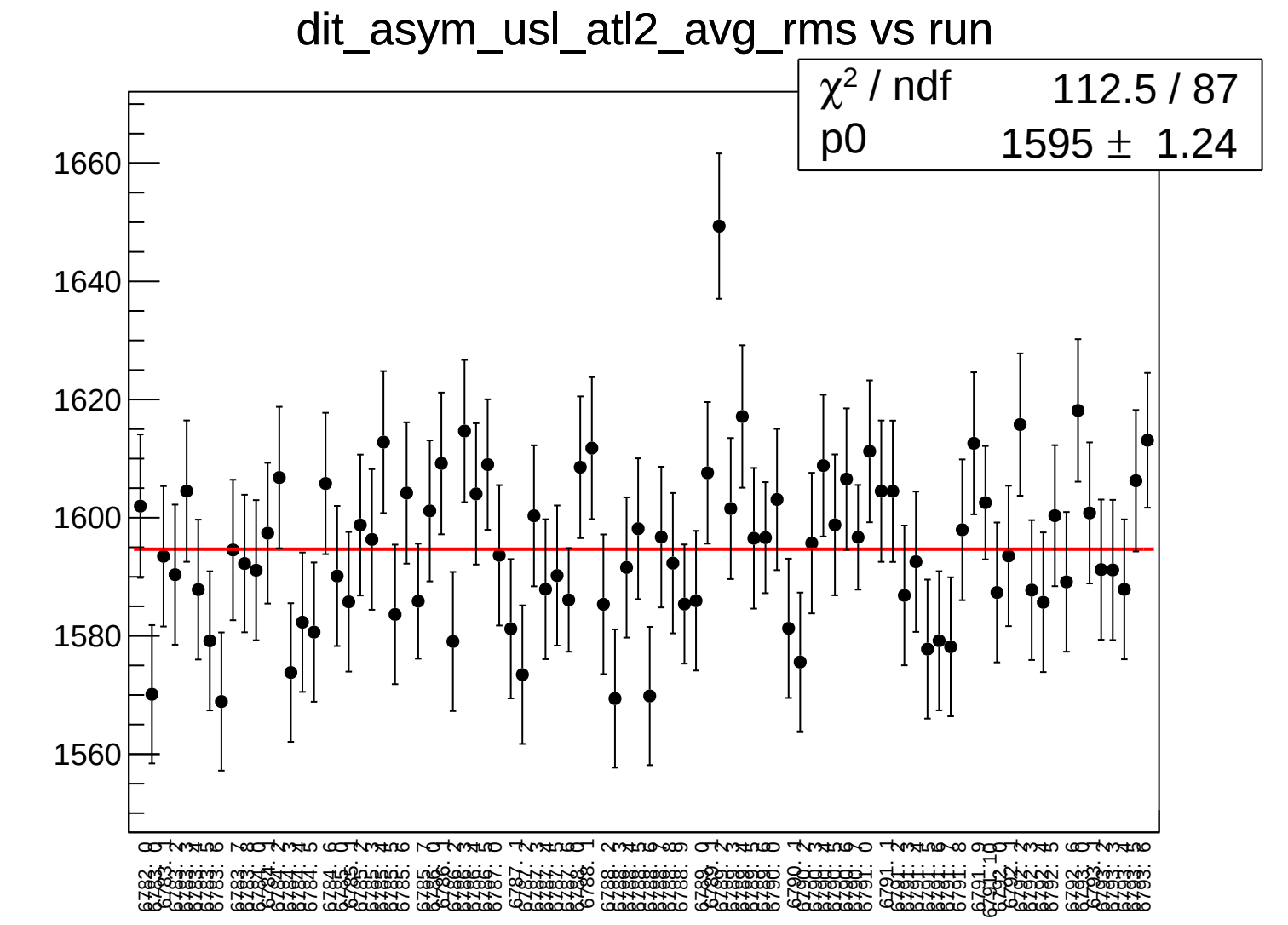

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.15 / 87
p0 −5471 ± 4581
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −56.79
Std Dev 0
2
1
0
−1
−2

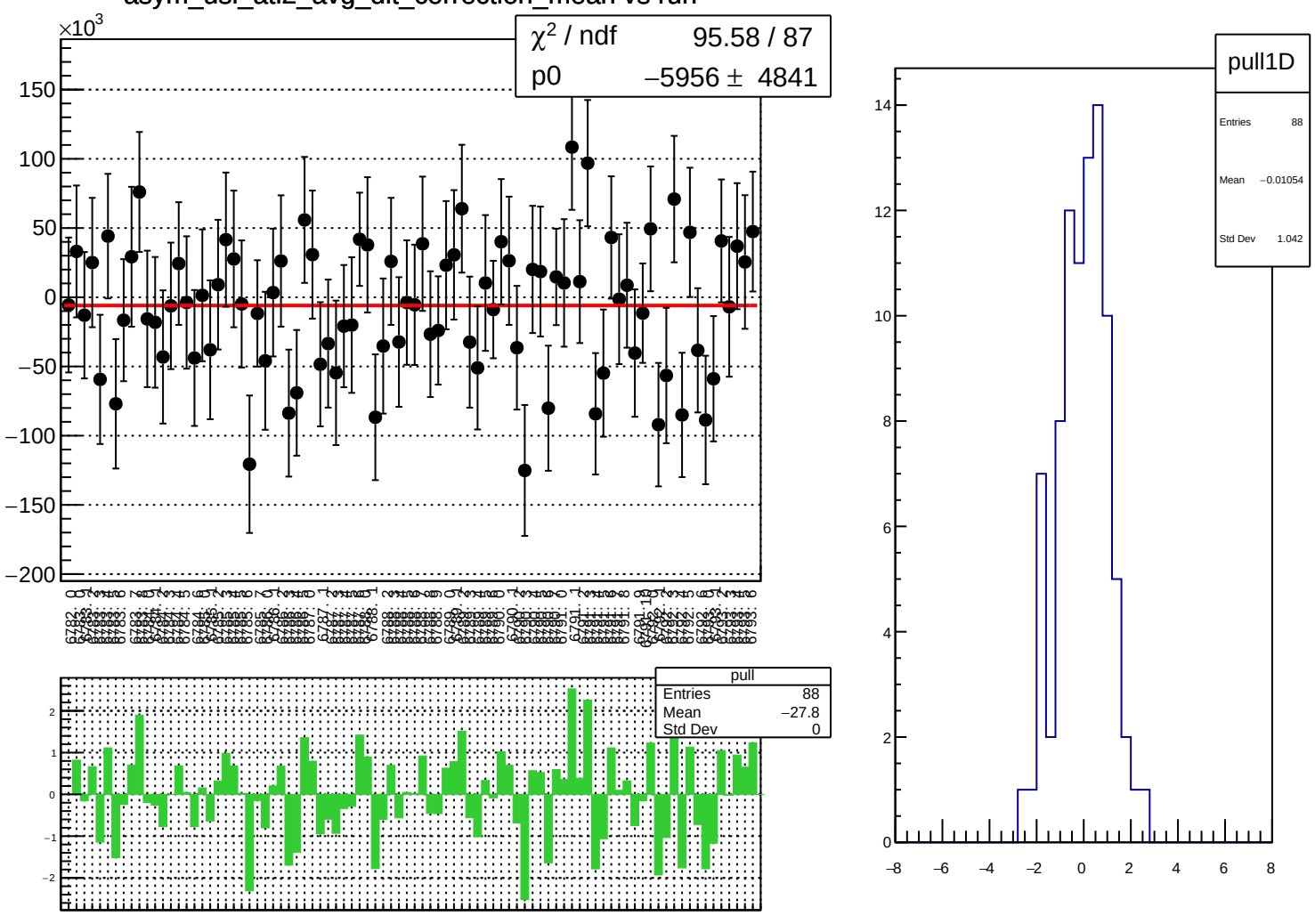

pull1D
Entries 88
Mean −0.01031
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

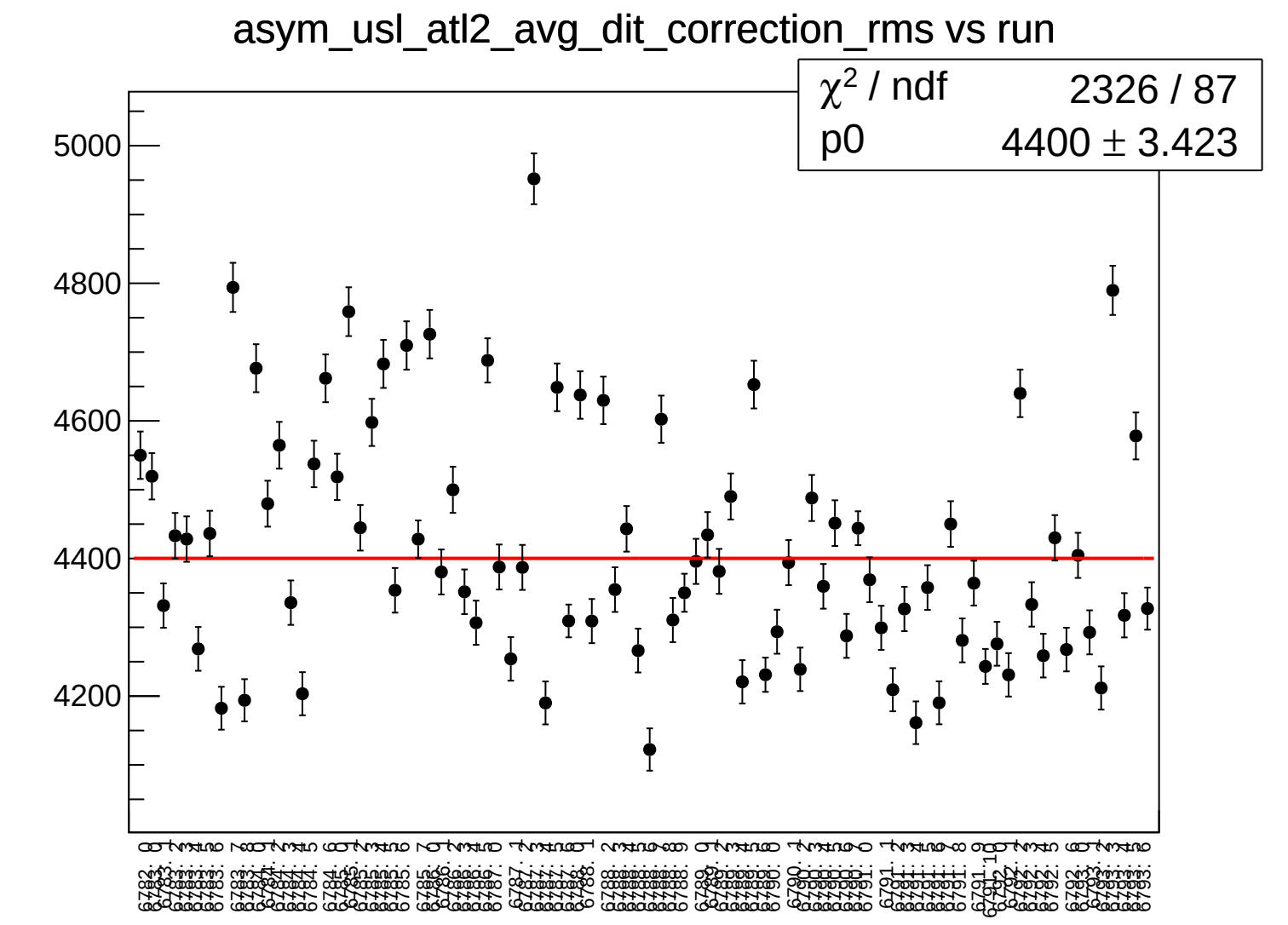

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2710 / 87
p0 4164 ± 3.239
4600
4400
4200
4000
3800

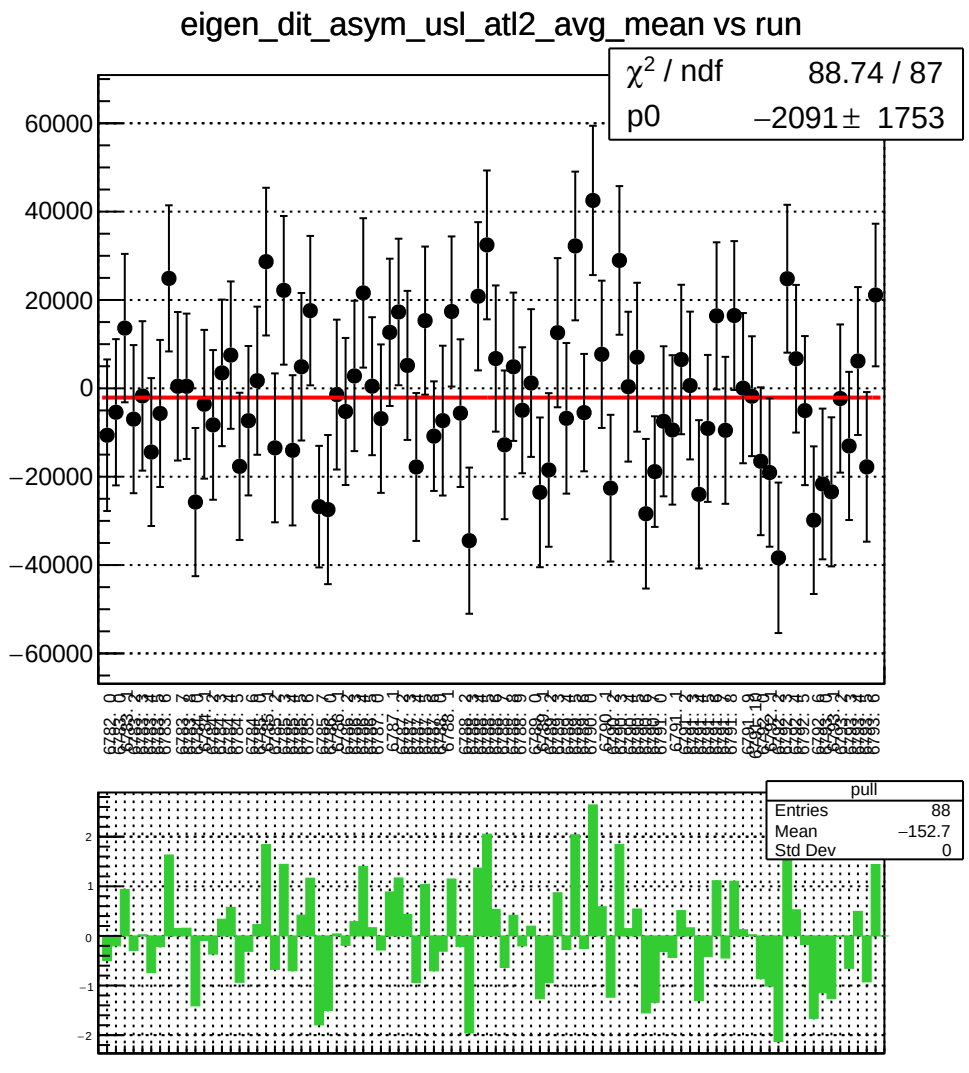

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 88.74 / 87
p0 −2091 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −152.7
Std Dev 0
2
1
0
−1
−2

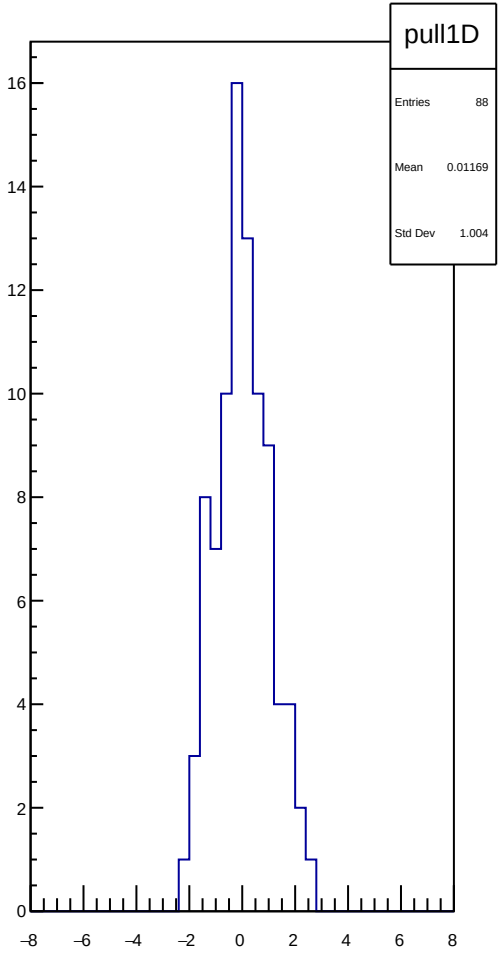

pull1D
Entries 88
Mean 0.01169
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

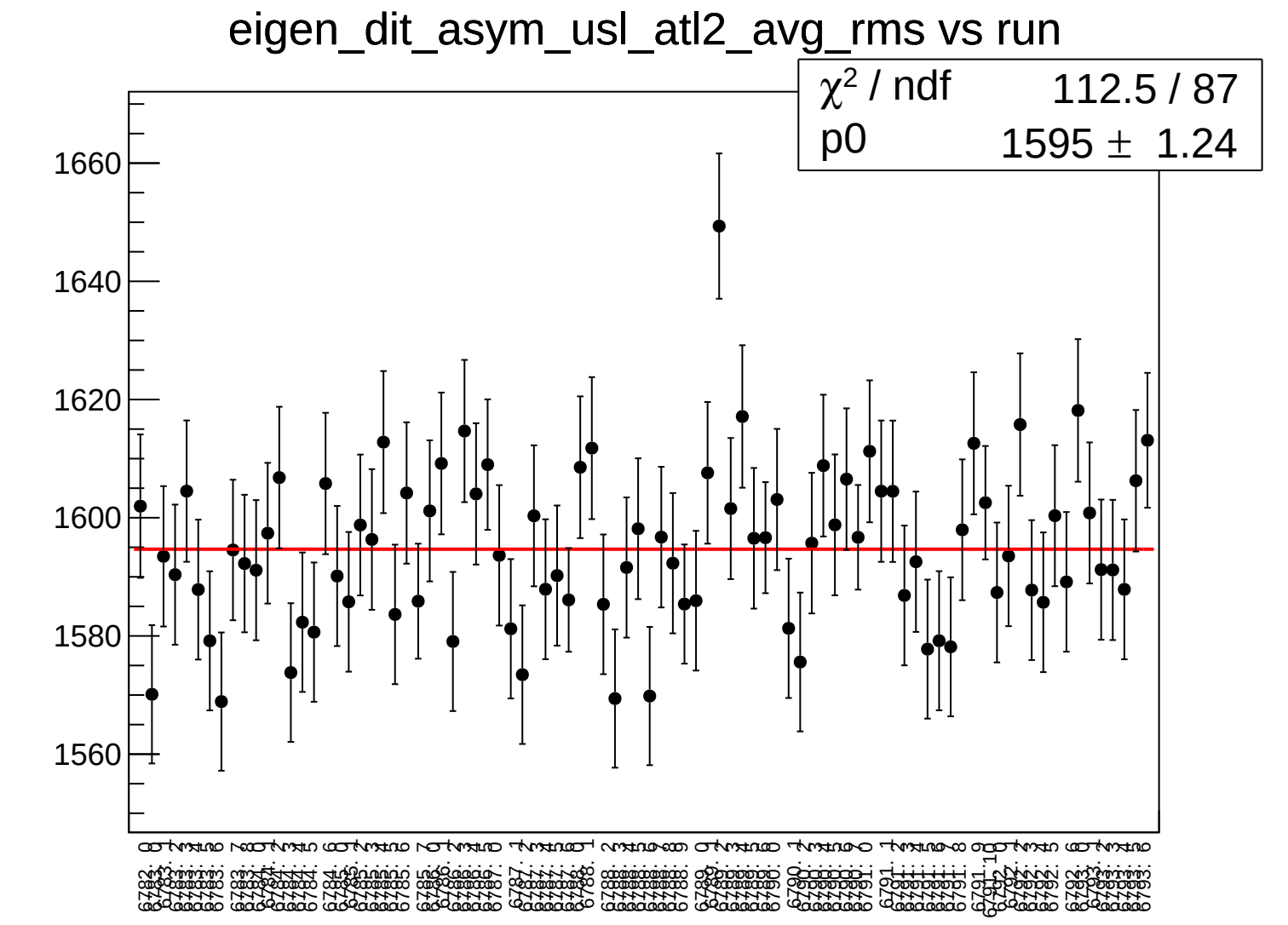

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 112.5 / 87
p0 1595 ± 1.24
1660
1640
1620
1600
1580
1560

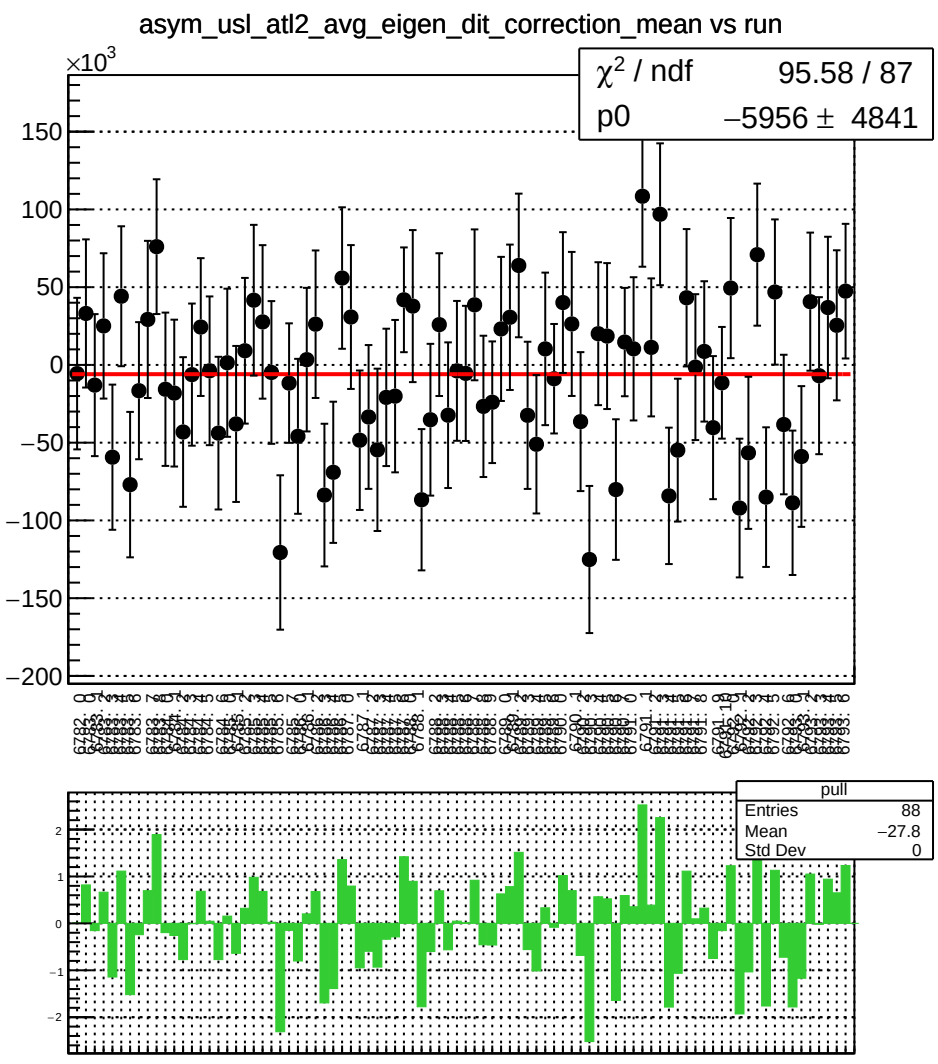

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.58 / 87
p0 −5956 ± 4841
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −27.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01054
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

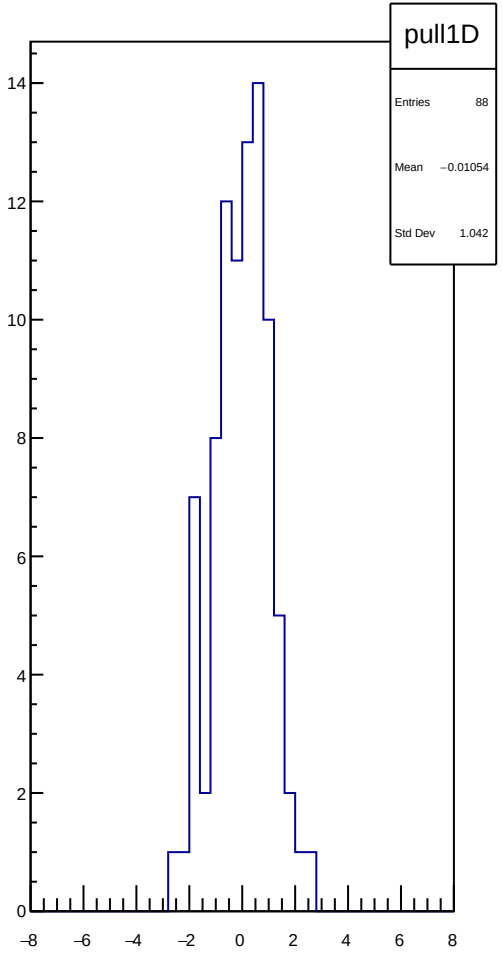

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2326 / 87
p0 4400 ± 3.423
5000
4800
4600
4400
4200

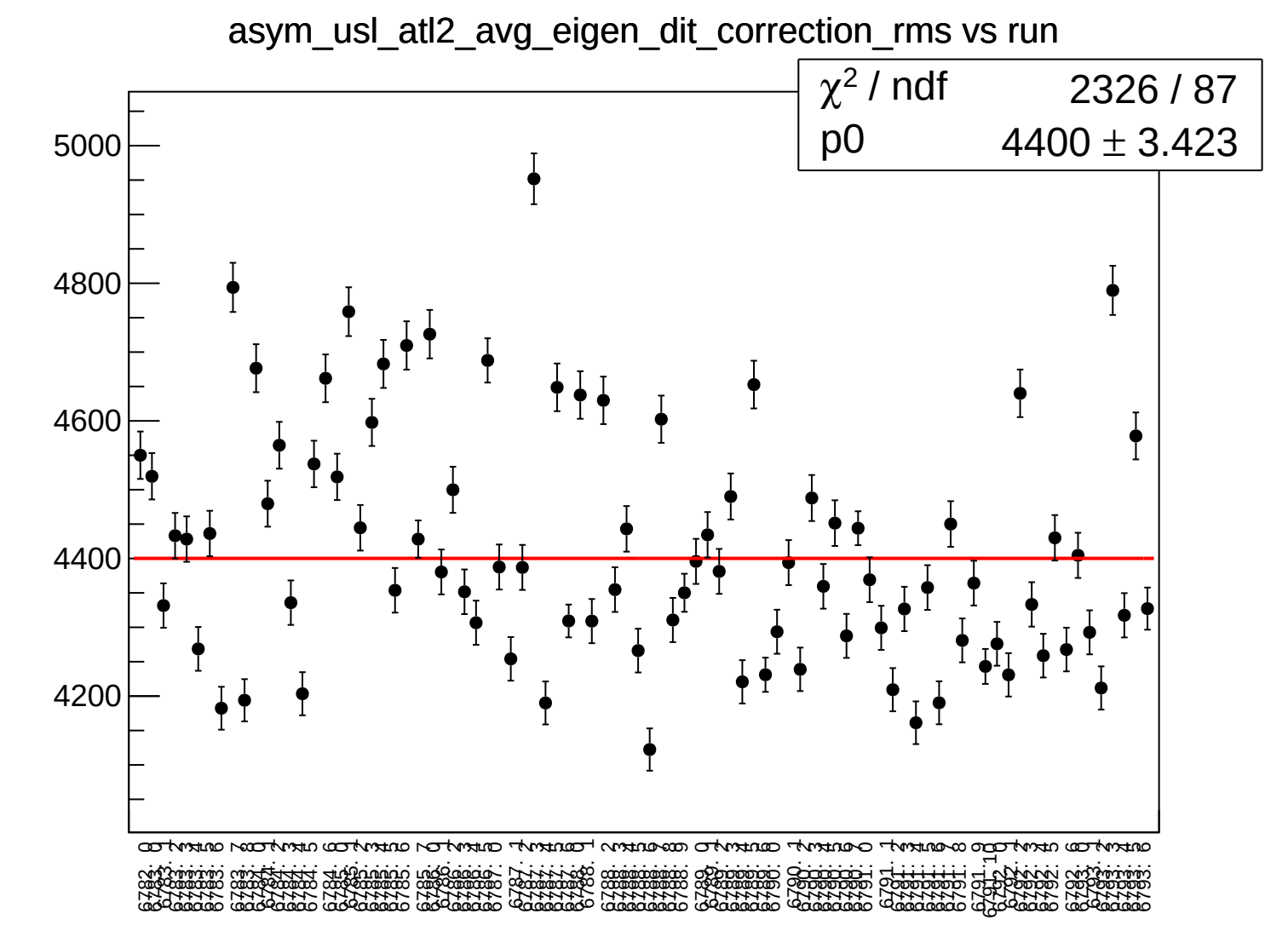

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 88.74 / 87
p0 −2091 ± 1753
pull
Entries 88
Mean −152.7
Std Dev 0

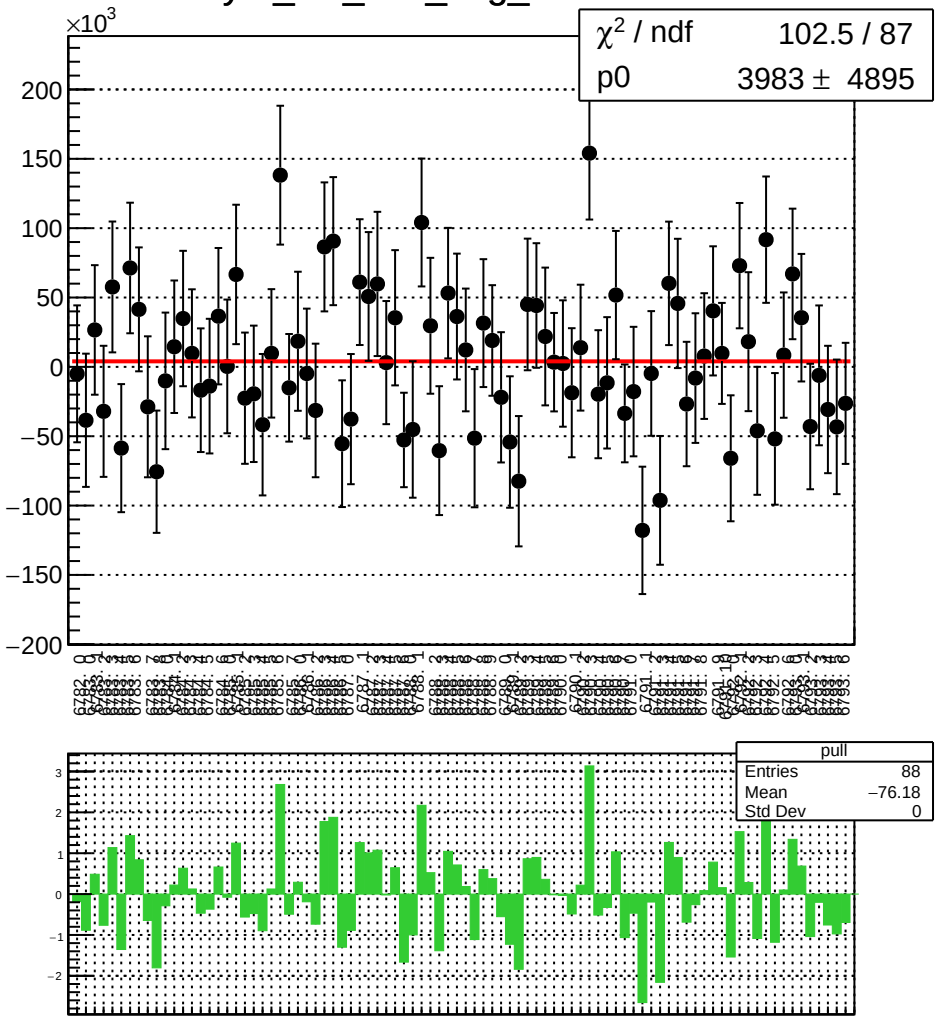

pull1D
Entries 88
Mean 0.01169
Std Dev 1.004

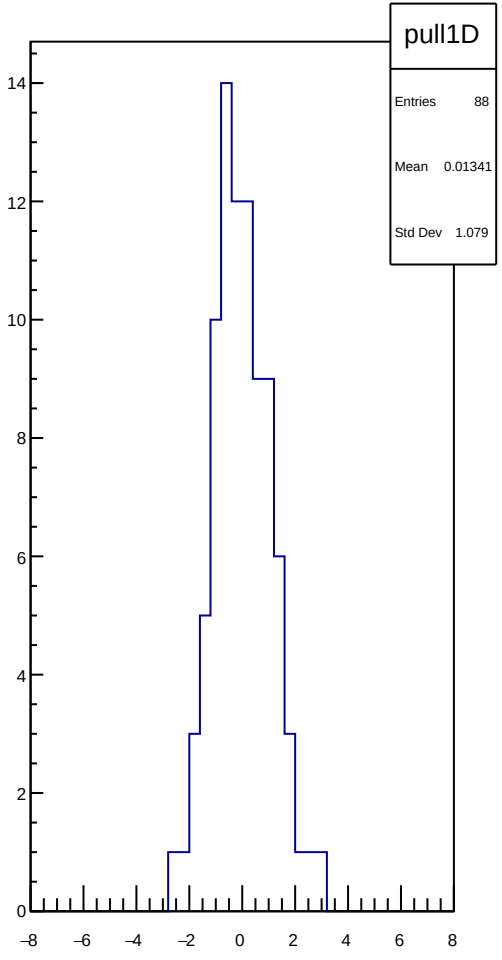

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 112.5 / 87
p0 1595 ± 1.24
1660
1640
1620
1600
1580
1560

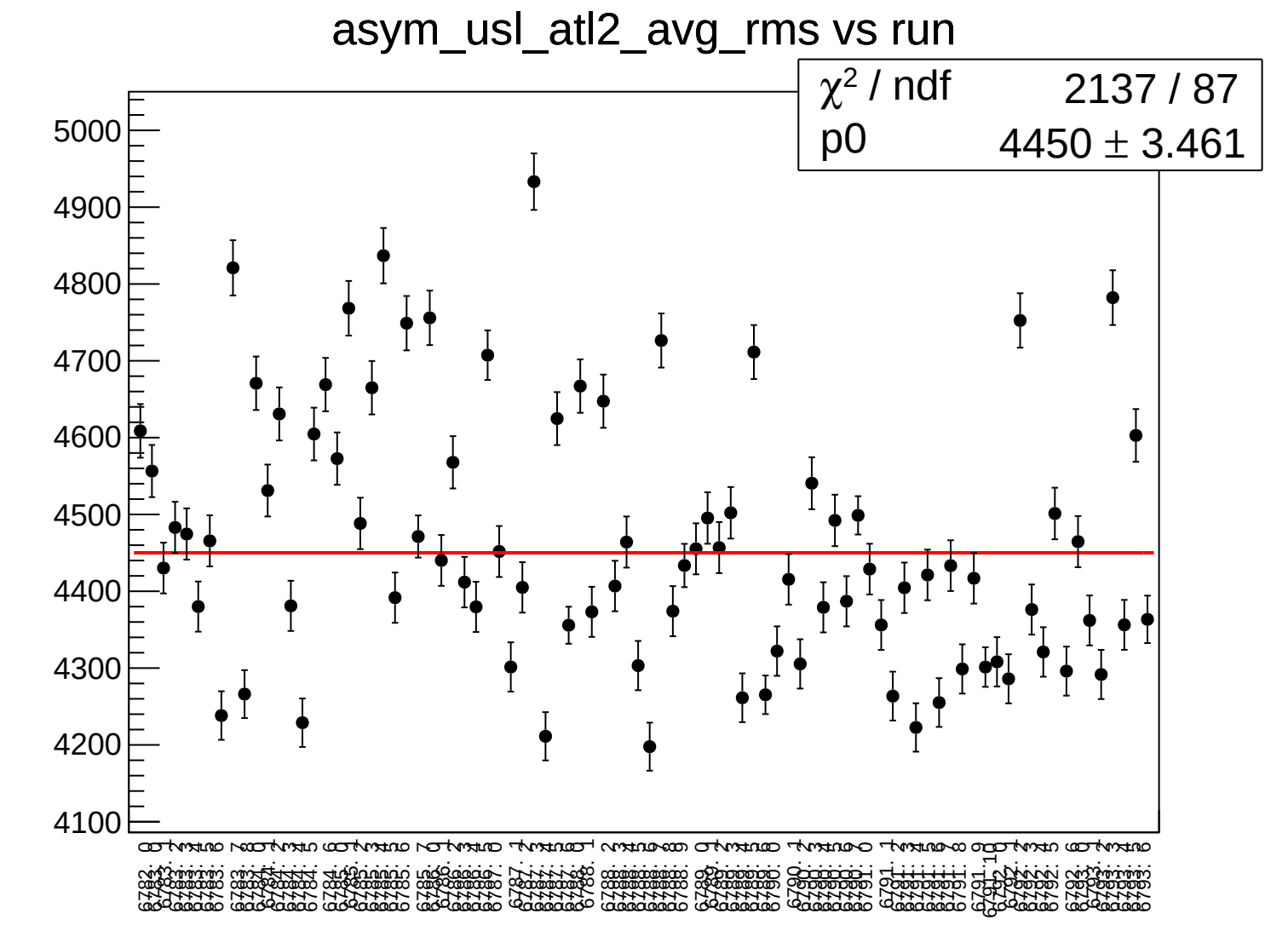

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.58 / 87
p0 −5956 ± 4841
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −27.8
Std Dev 0
2
1
0
−1
−2

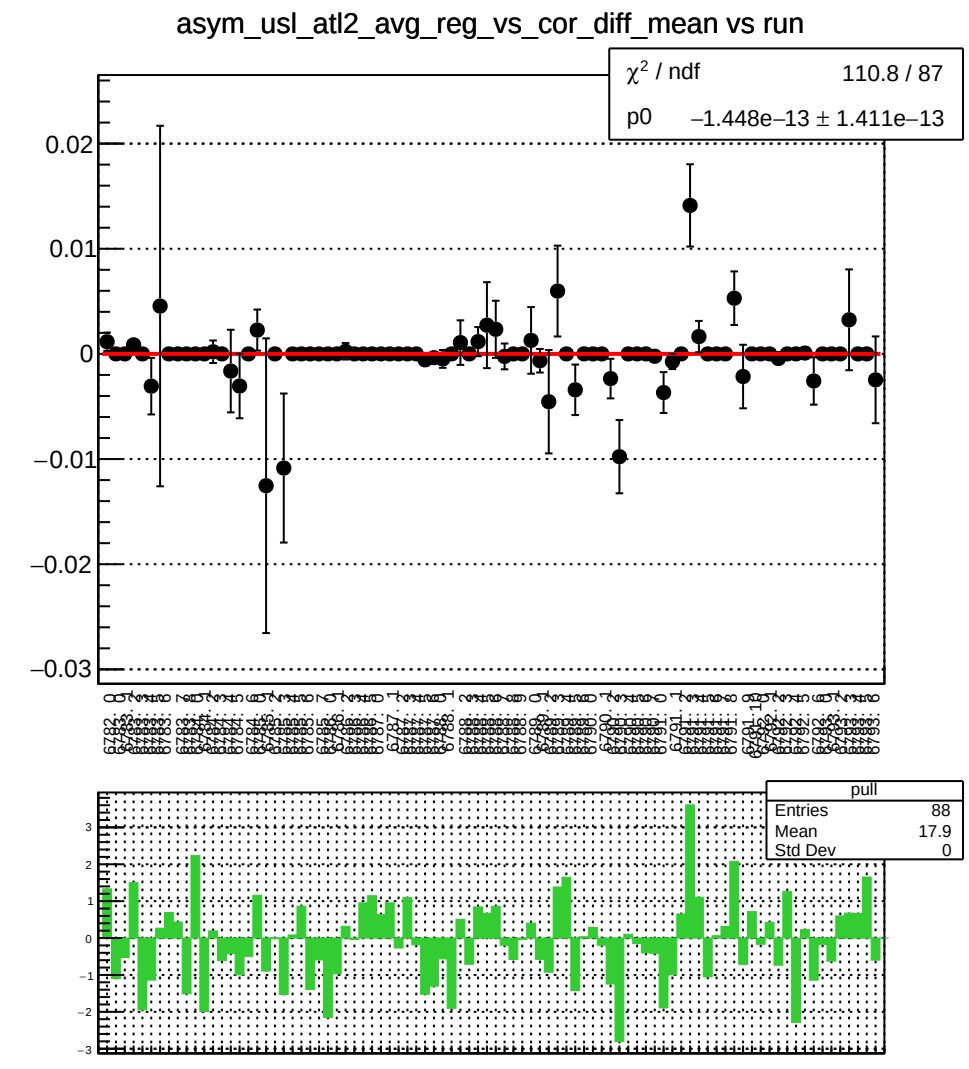

pull1D
Entries 88
Mean −0.01054
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

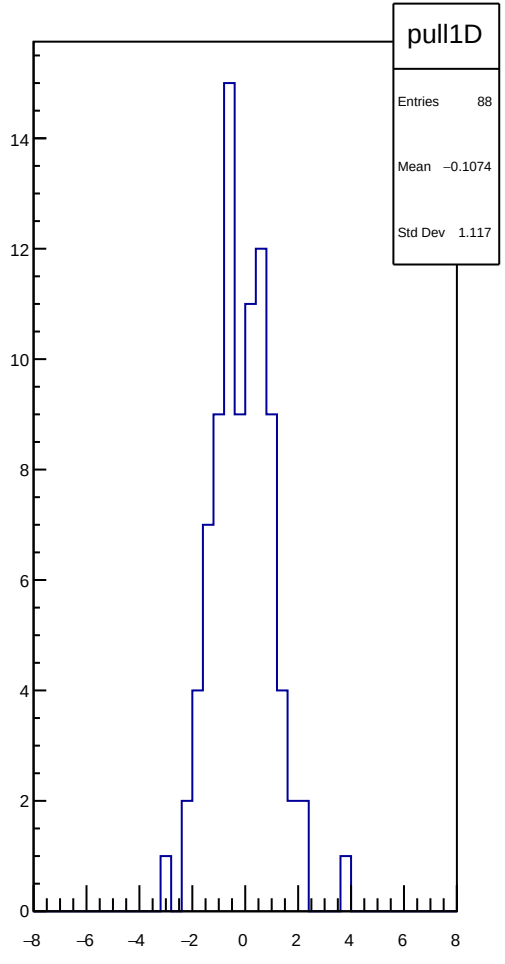

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2326 / 87
p0 4400 ± 3.423
5000
4800
4600
4400
4200

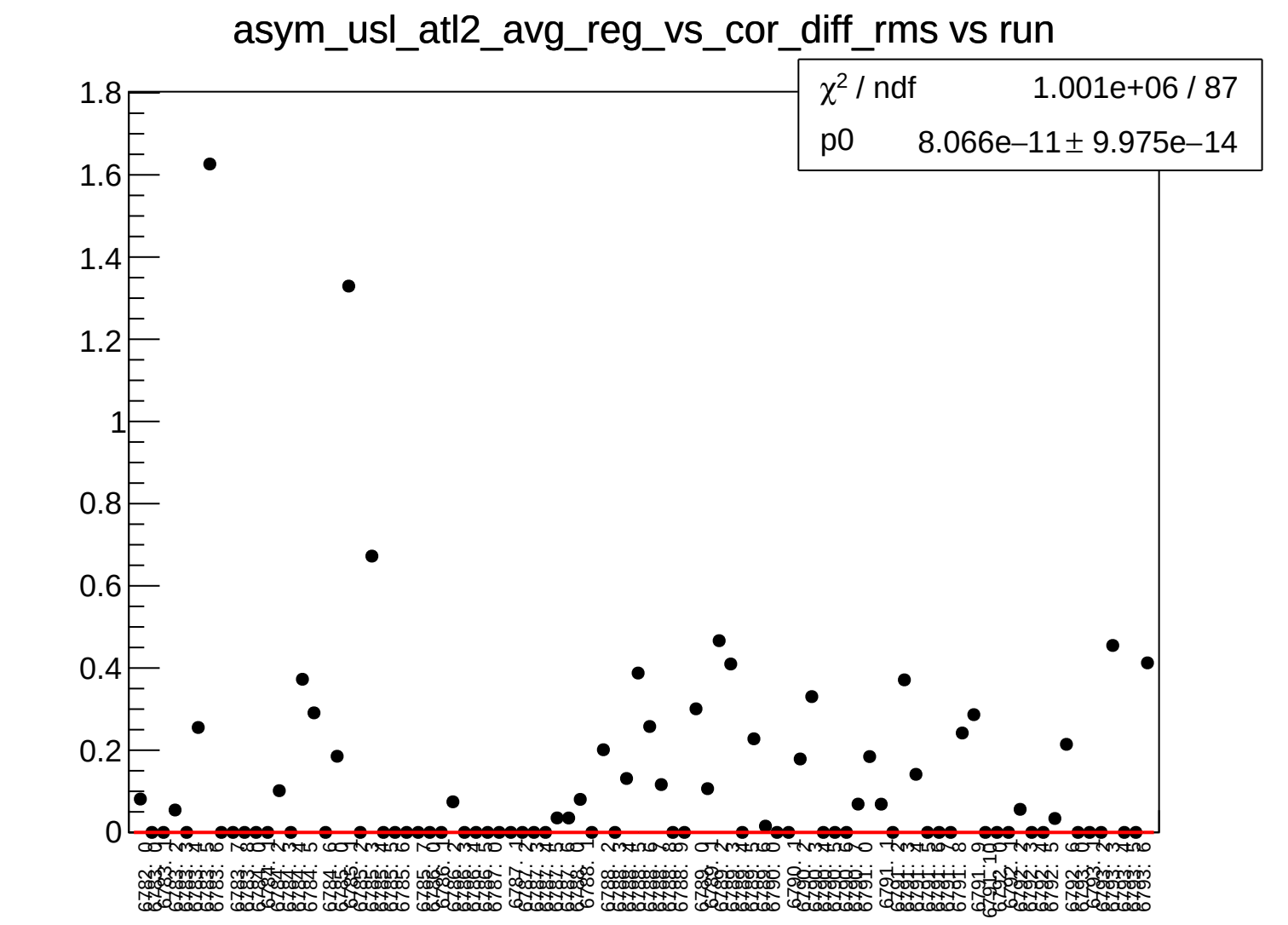

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 102.5 / 87
p0 3983 ± 4895
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −76.18
Std Dev 0
3
2
1
0
−1
−2

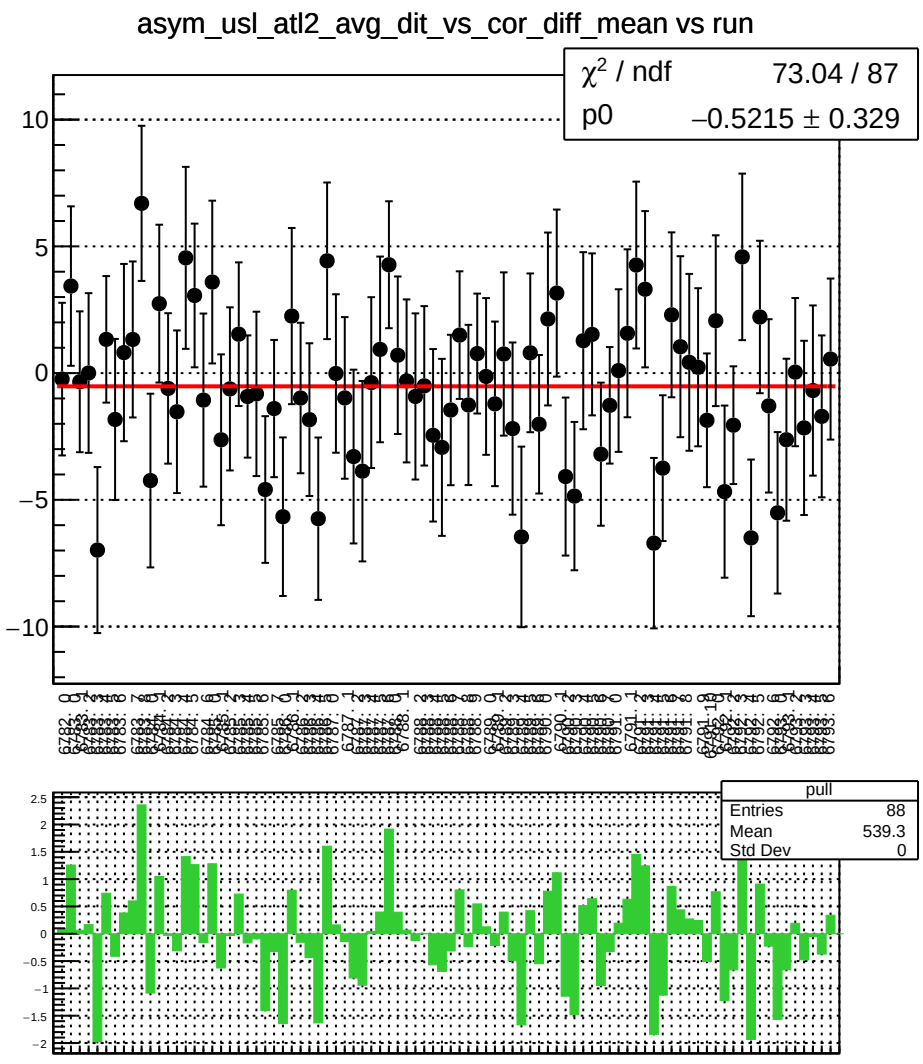

pull1D
Entries 88
Mean 0.01341
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

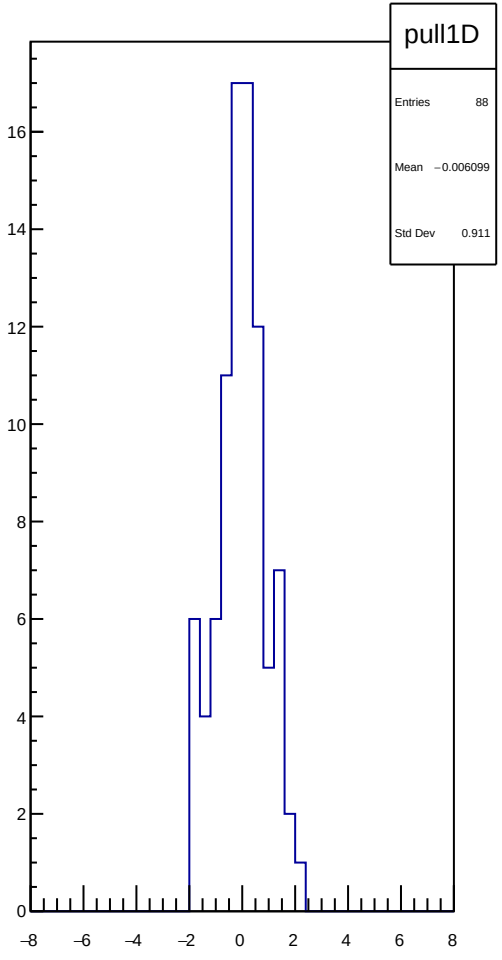

asym_usl_atl2_avg_rms vs run
χ² / ndf 2137 / 87
p0 4450 ± 3.461
5000
4900
4800
4700
4600
4500
4400
4300
4200
4100

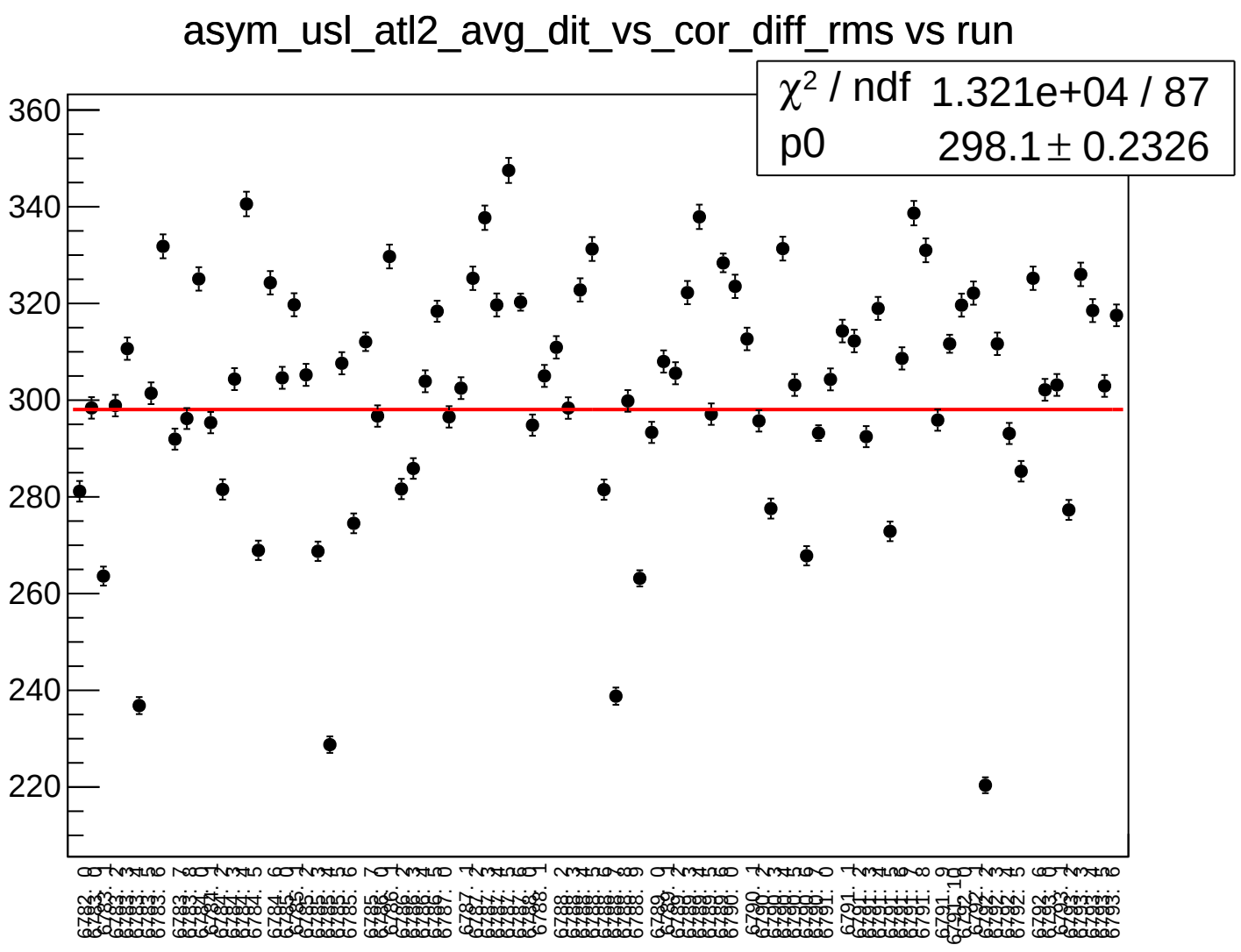

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.8 / 87
p0 −1.448e−13 ± 1.411e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 17.9
Std Dev 0
3
2
1
0
−1
−2
−3

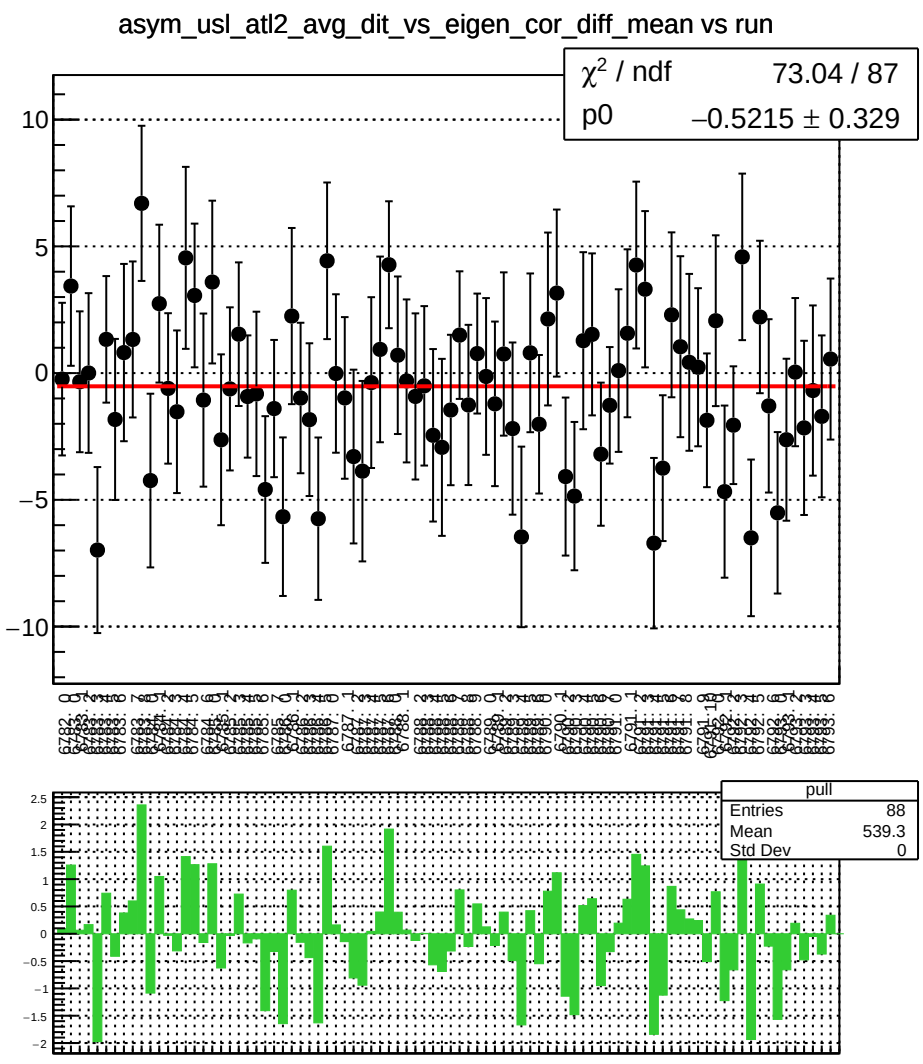

pull1D
Entries 88
Mean −0.1074
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

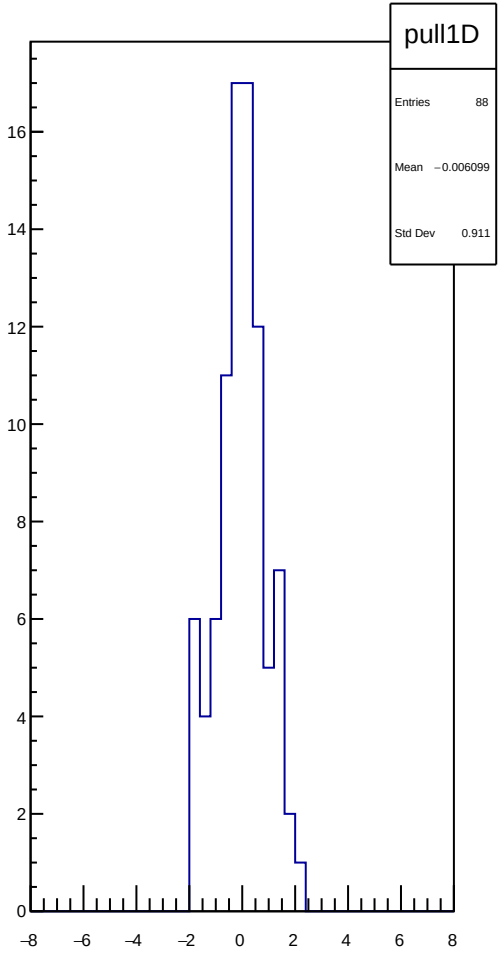

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 87
p0 8.066e−11 ± 9.975e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

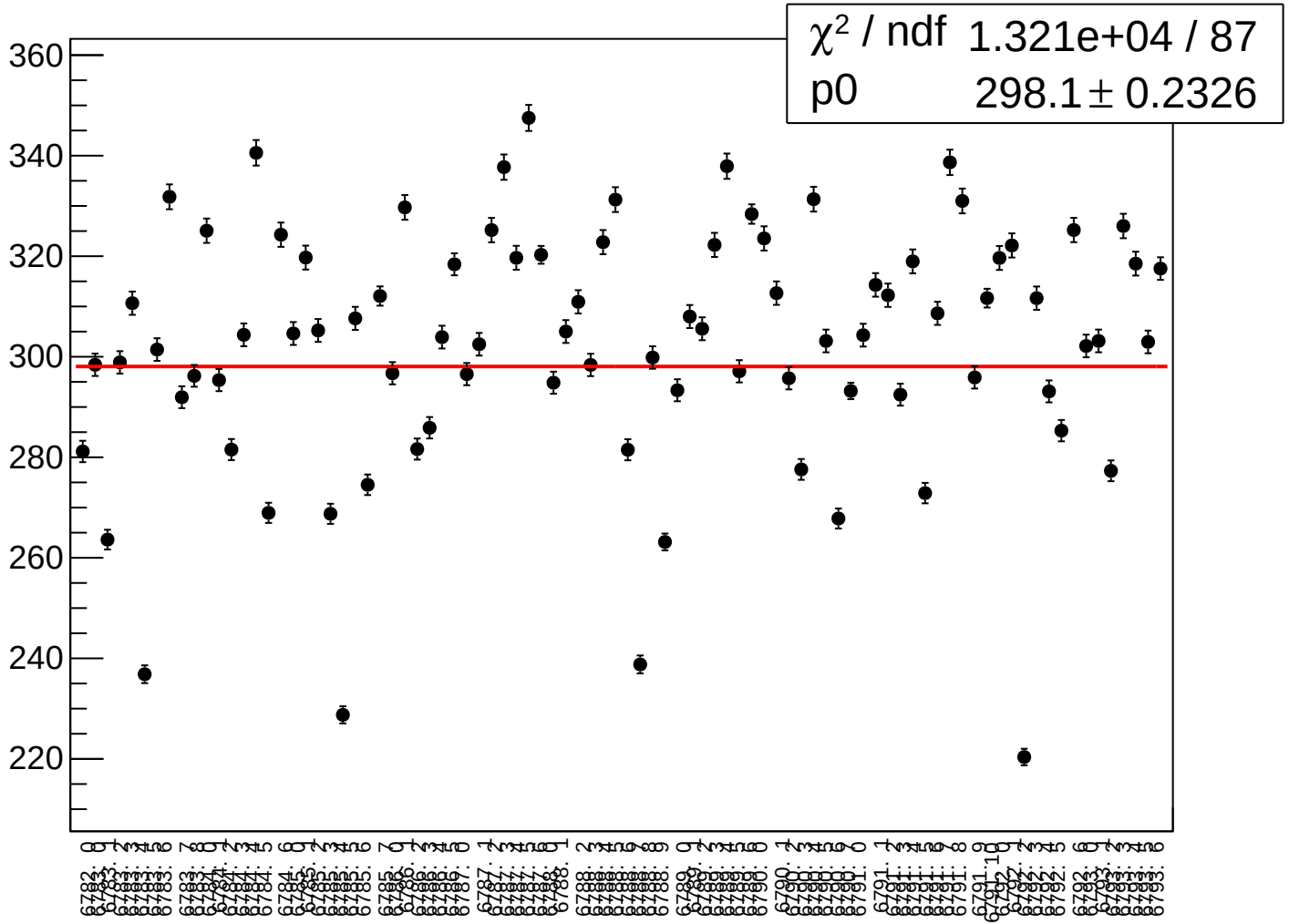

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5215 ± 0.329
pull
Entries 88
Mean 539.3
Std Dev 0

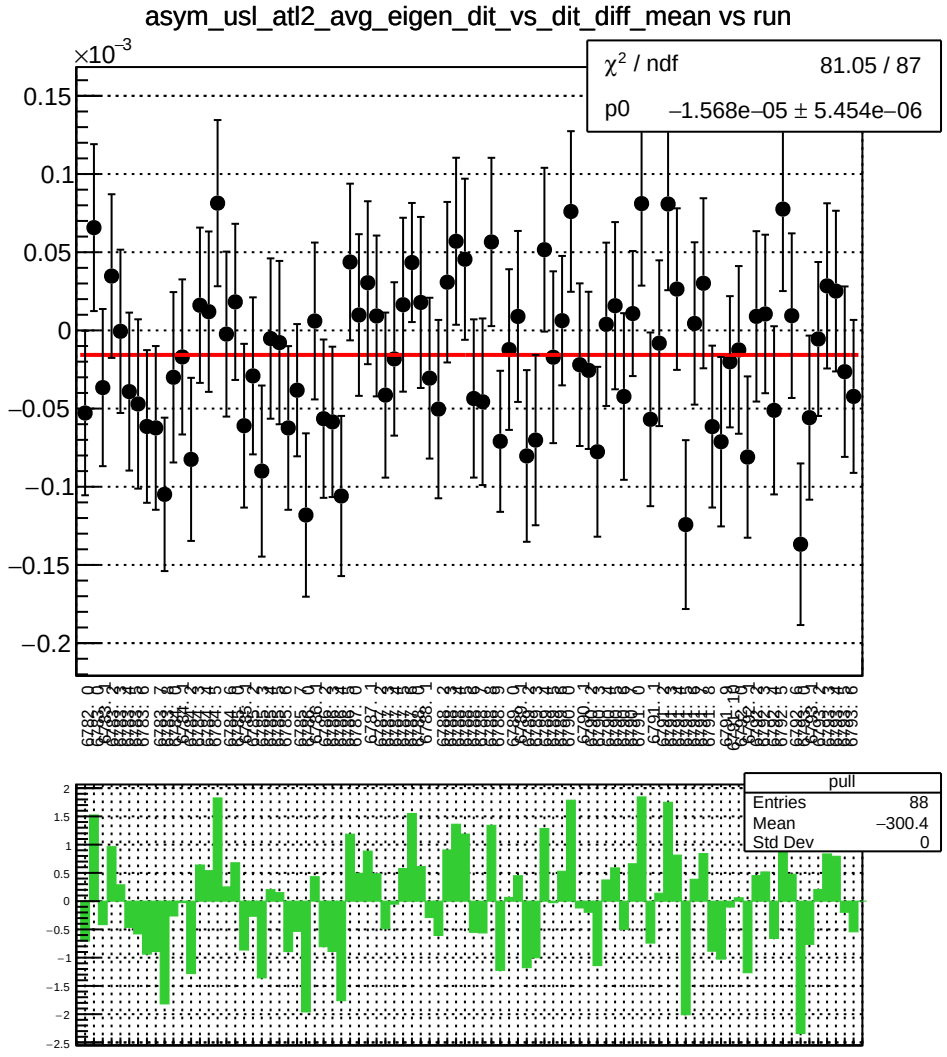

pull1D
Entries 88
Mean −0.006099
Std Dev 0.911

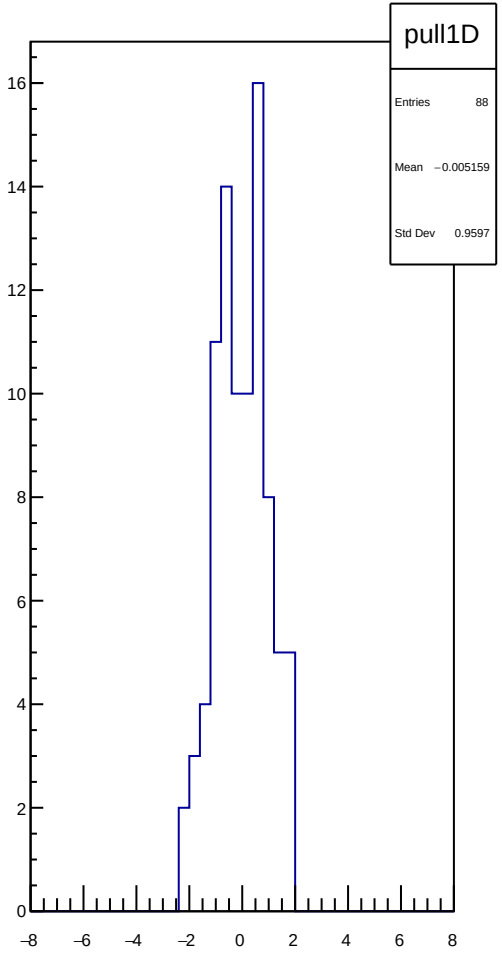

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.321e+04 / 87
p0 298.1 ± 0.2326
360
340
320
300
280
260
240
220

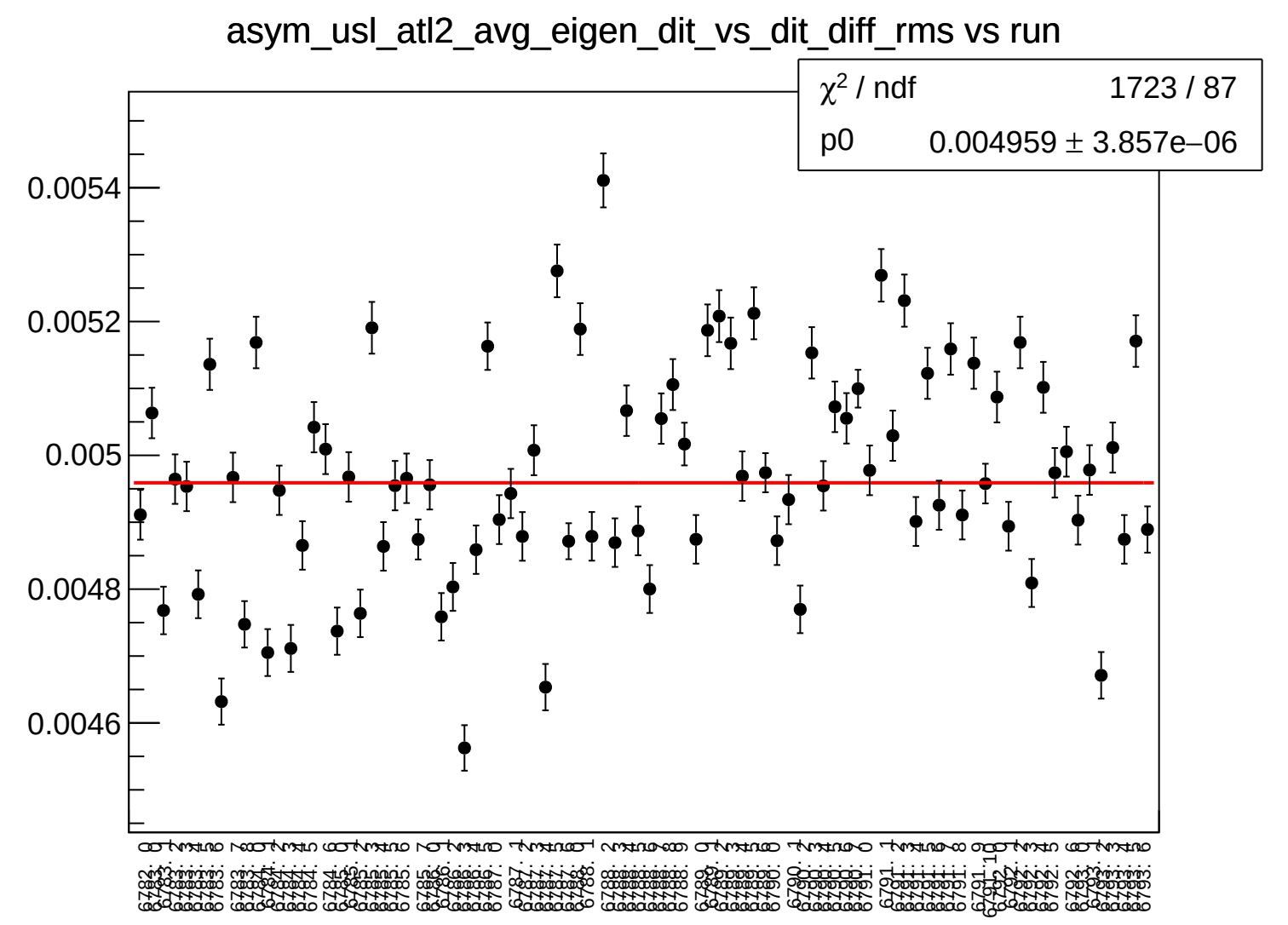

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5215 ± 0.329
pull
Entries 88
Mean 539.3
Std Dev 0

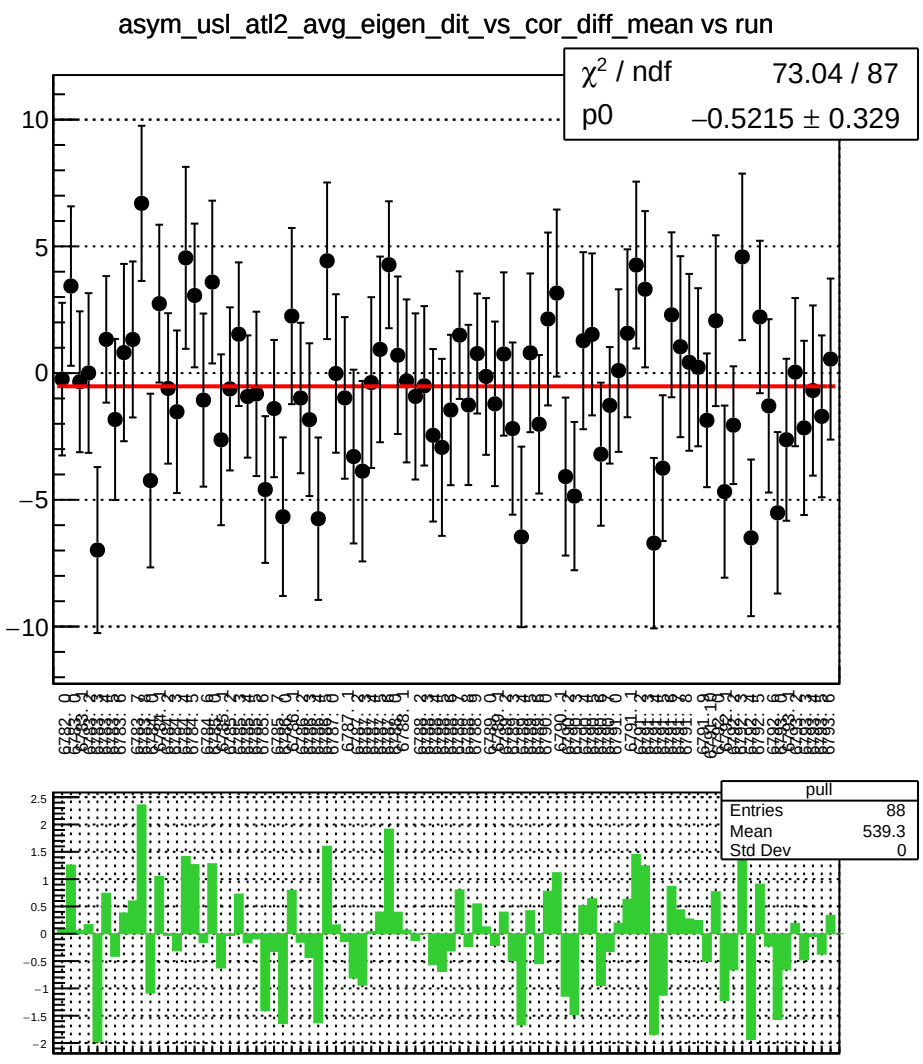

pull1D
Entries 88
Mean −0.006099
Std Dev 0.911

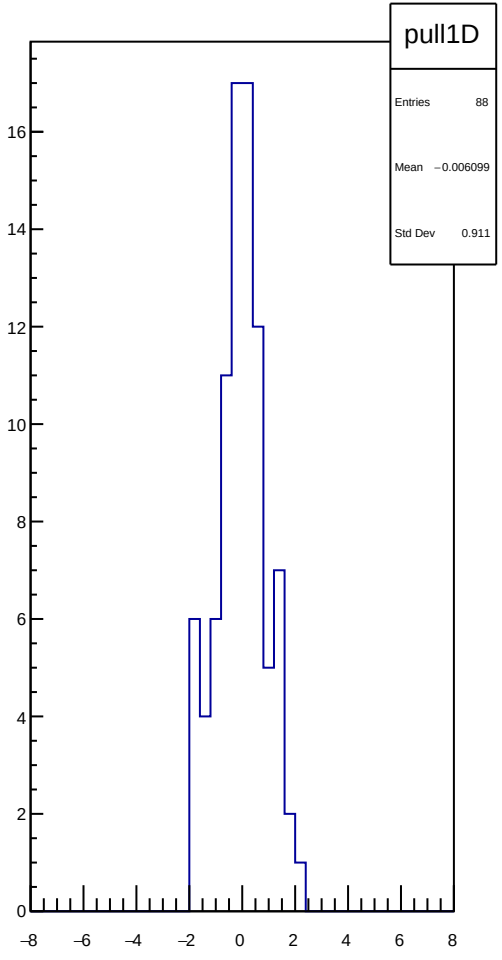

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.321e+04 / 87
p0 298.1 ± 0.2326
360
340
320
300
280
260
240
220

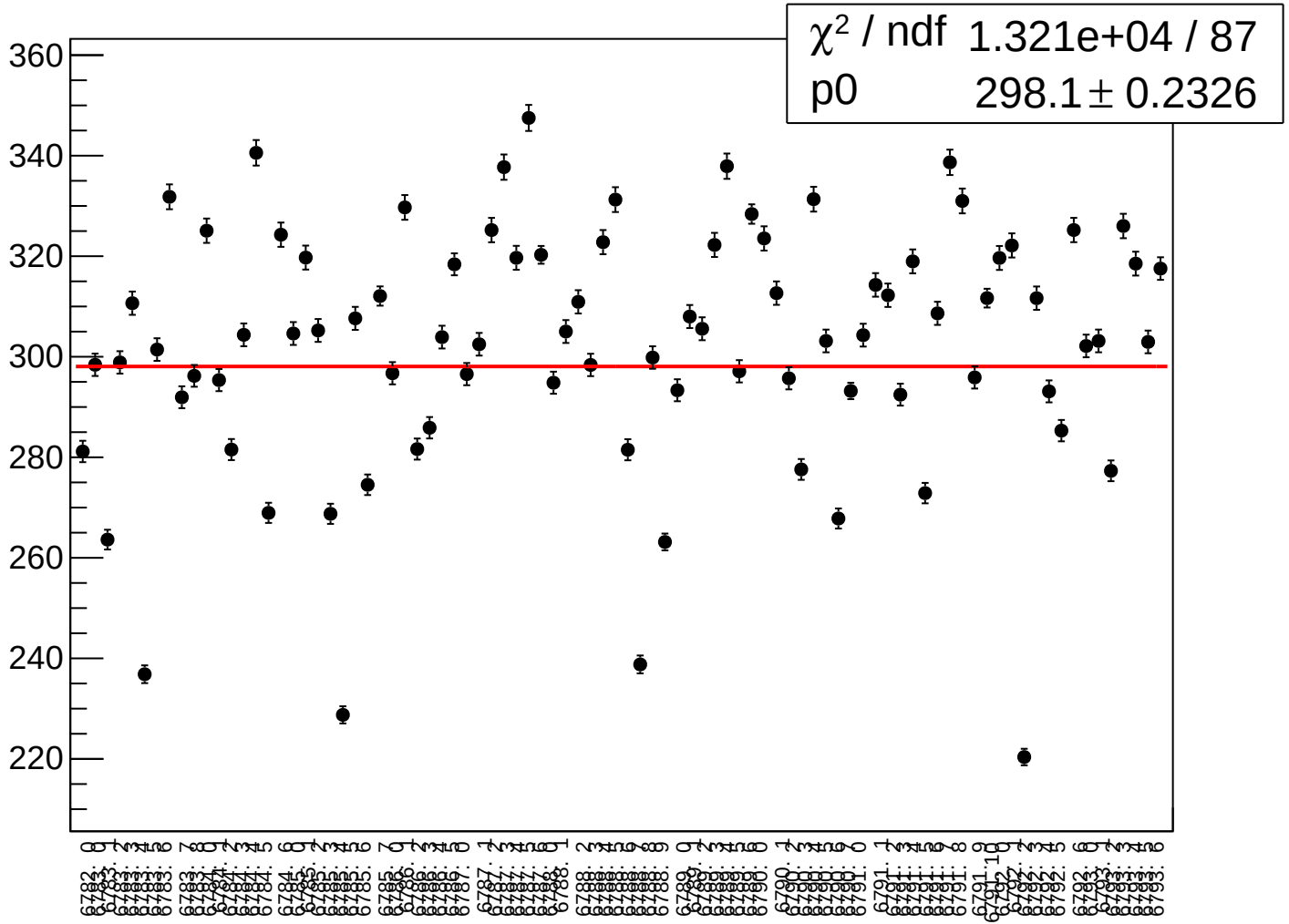

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.05 / 87
p0 −1.568e−05 ± 5.454e−06
pull
Entries 88
Mean −300.4
Std Dev 0

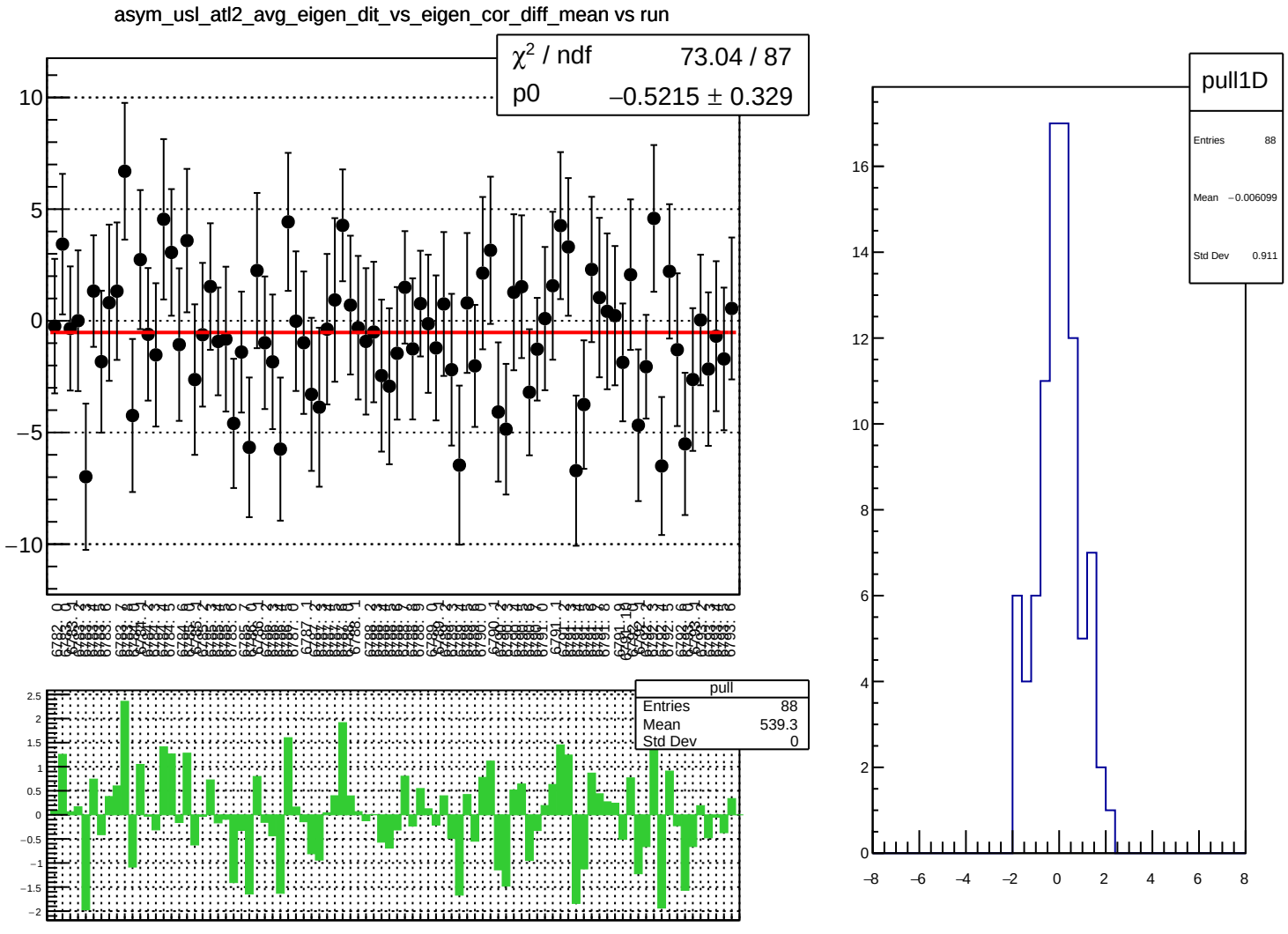

pull1D
Entries 88
Mean −0.005159
Std Dev 0.9597

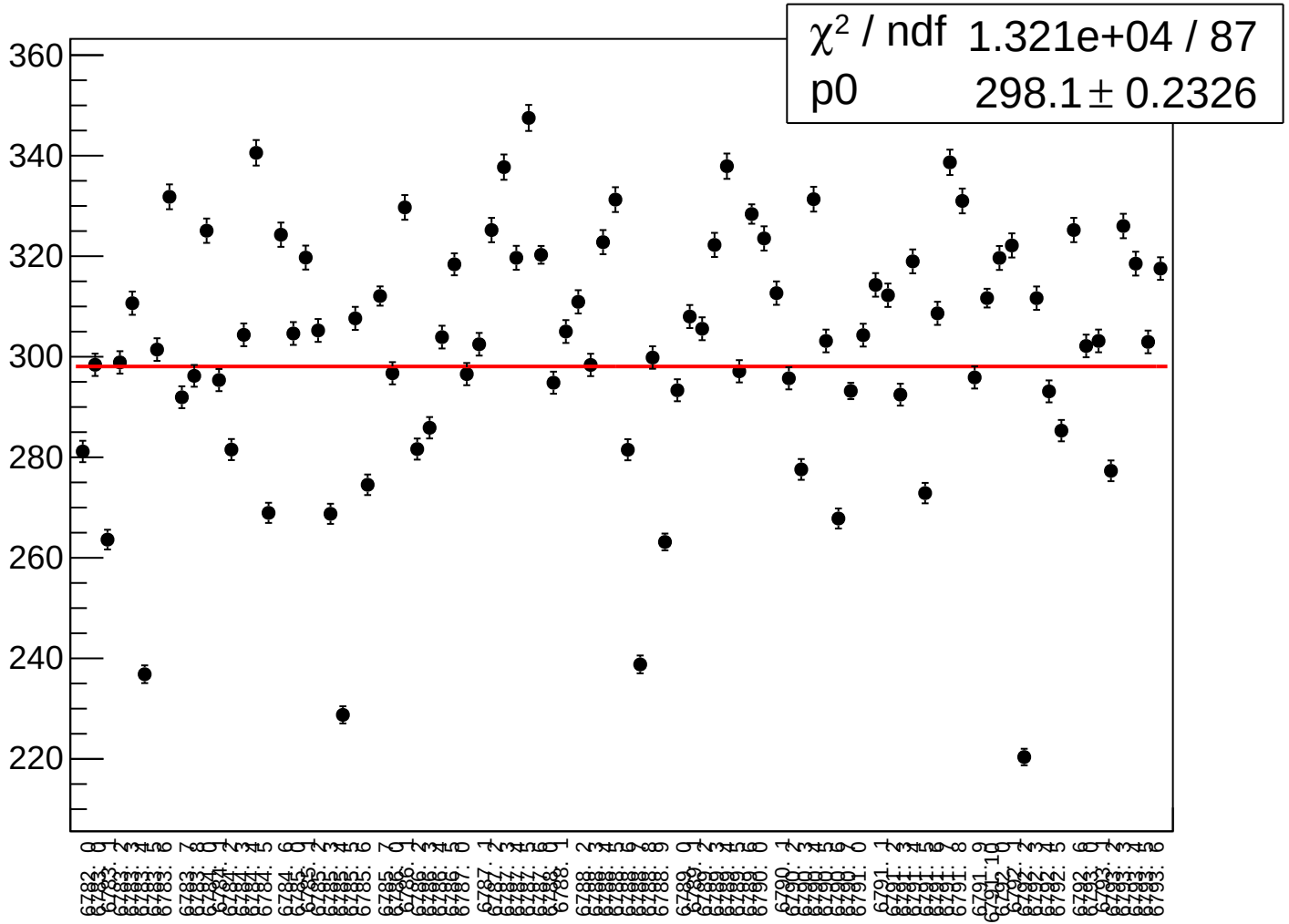

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1723 / 87
p0 0.004959 ± 3.857e−06
0.0054
0.0052
0.005
0.0048
0.0046

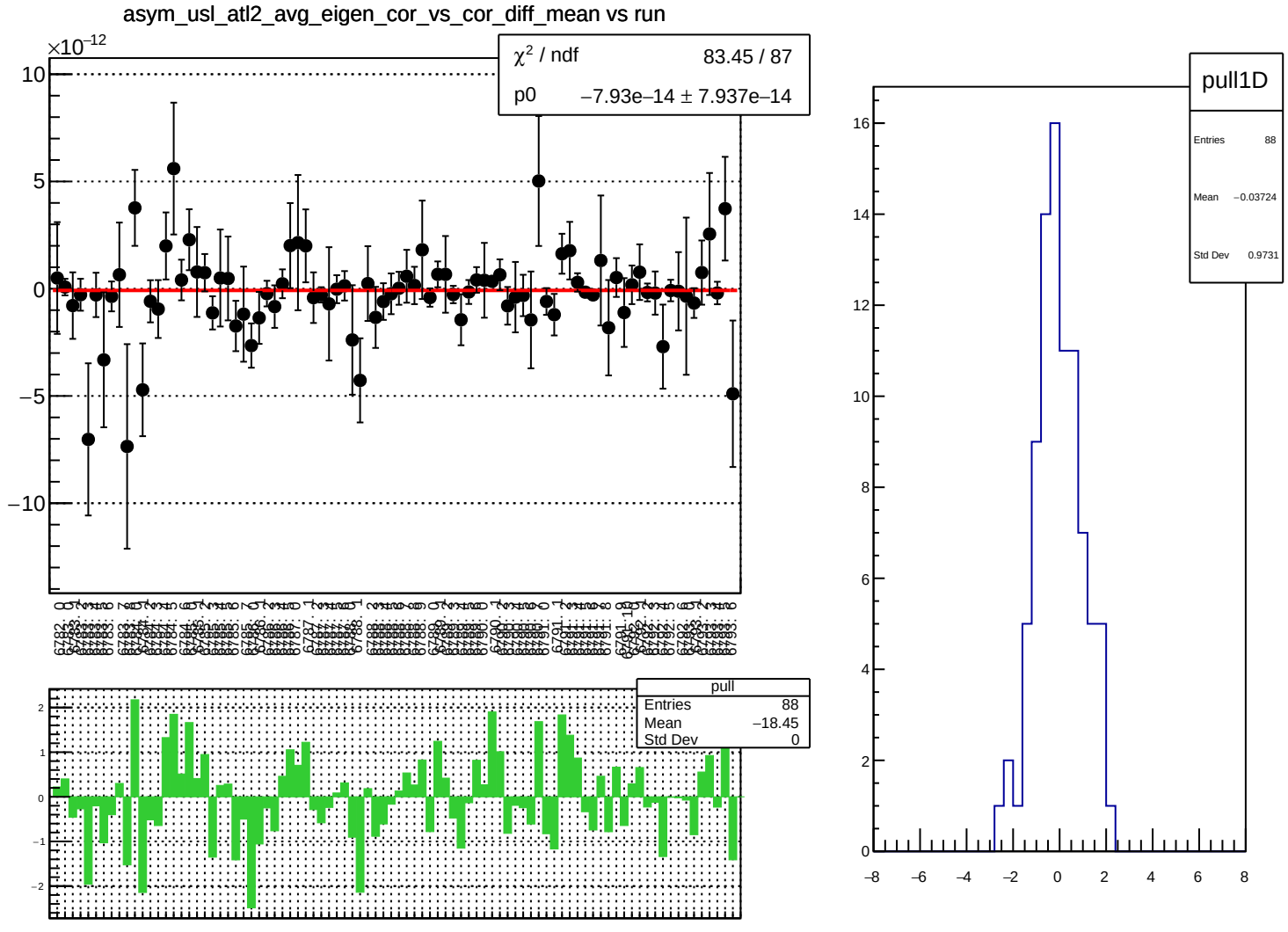

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5215 ± 0.329
pull
Entries 88
Mean 539.3
Std Dev 0

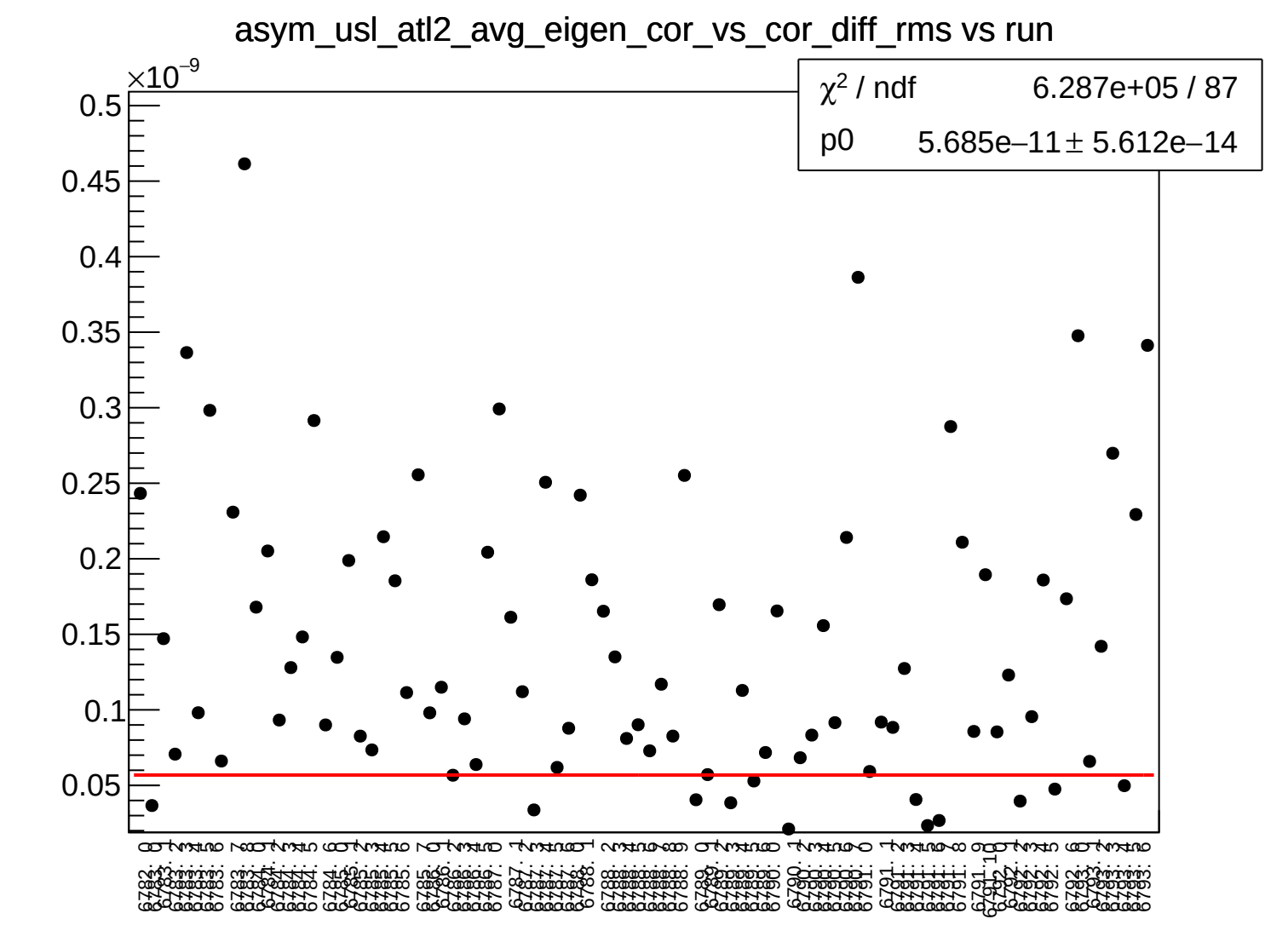

pull1D
Entries 88
Mean −0.006099
Std Dev 0.911

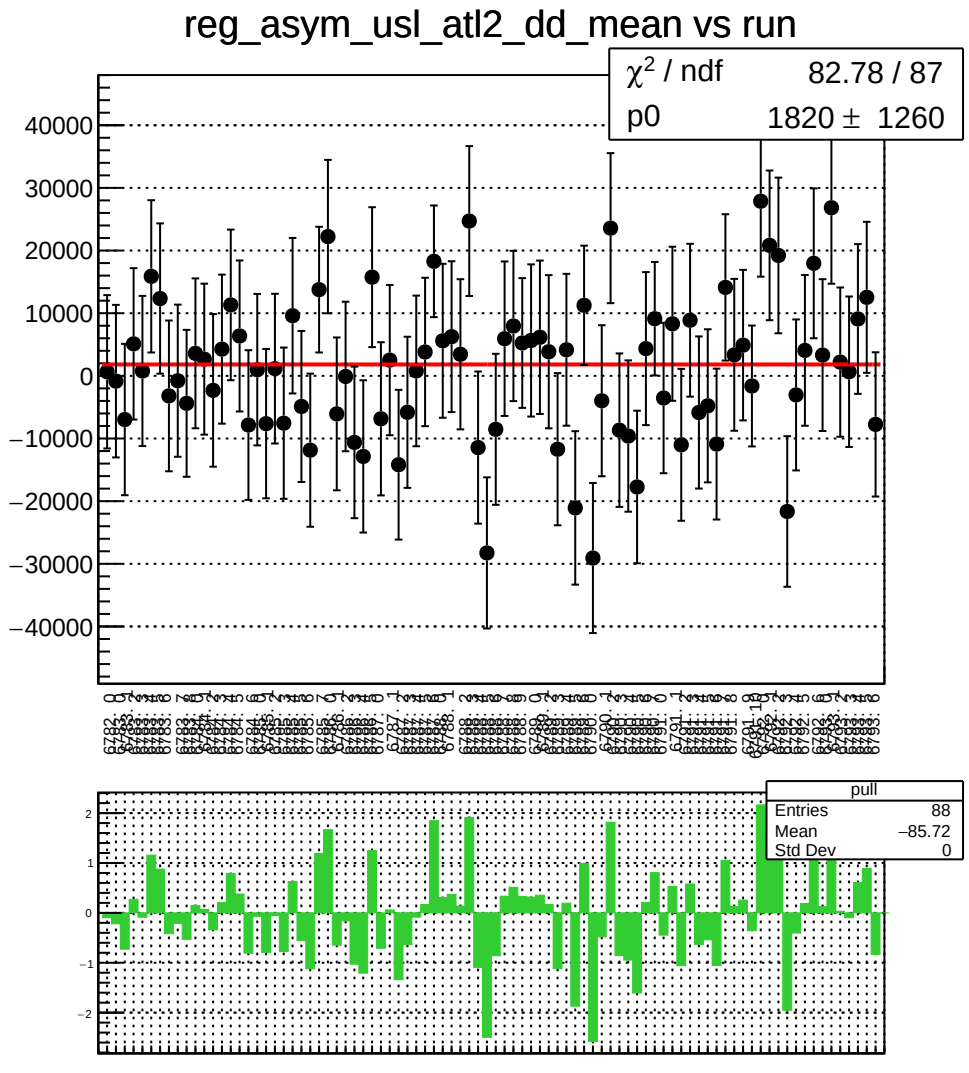

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.321e+04 / 87
p0 298.1 ± 0.2326
360
340
320
300
280
260
240
220

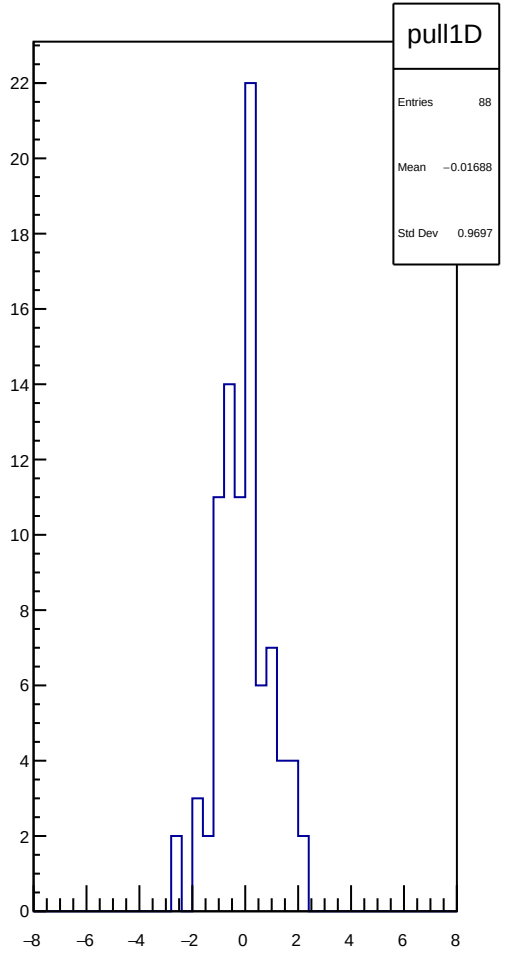

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.04 / 87
p0 −0.5215 ± 0.329
pull
Entries 88
Mean 539.3
Std Dev 0
pull1D
Entries 88
Mean −0.006099
Std Dev 0.911

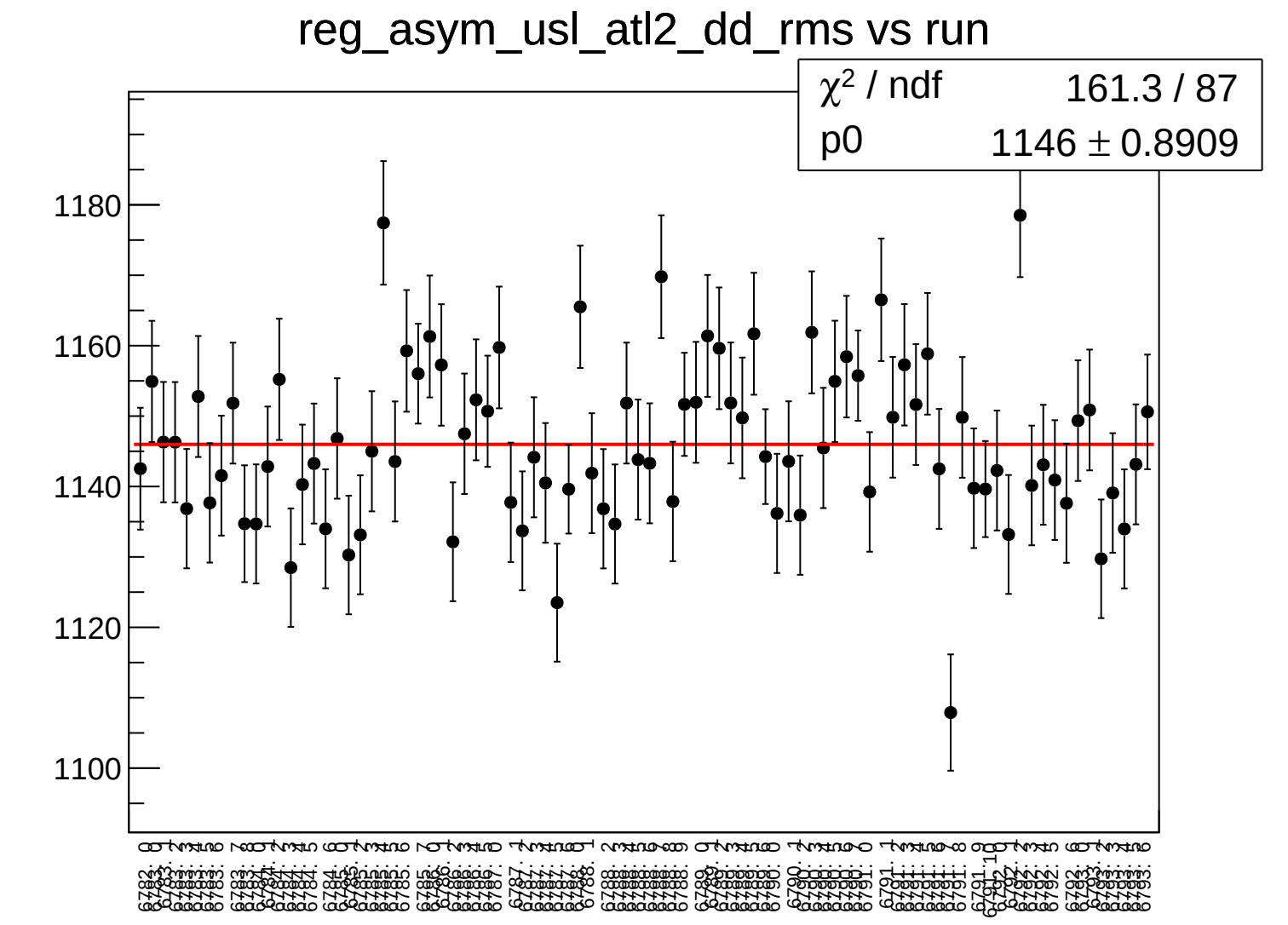

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.321e+04 / 87
p0 298.1 ± 0.2326
360
340
320
300
280
260
240
220

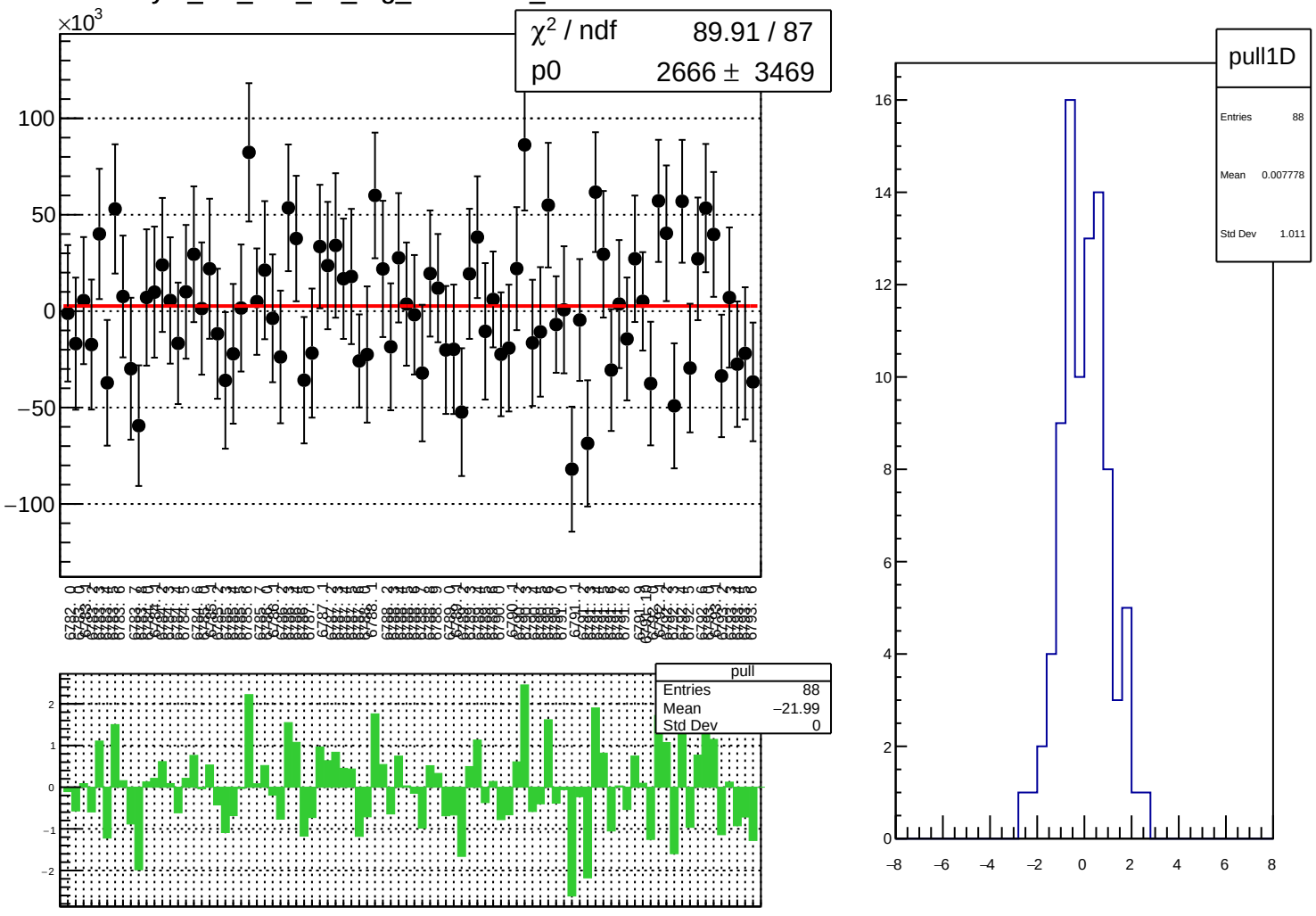

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.45 / 87
p0 −7.93e−14 ± 7.937e−14
pull
Entries 88
Mean −18.45
Std Dev 0
pull1D
Entries 88
Mean −0.03724
Std Dev 0.9731

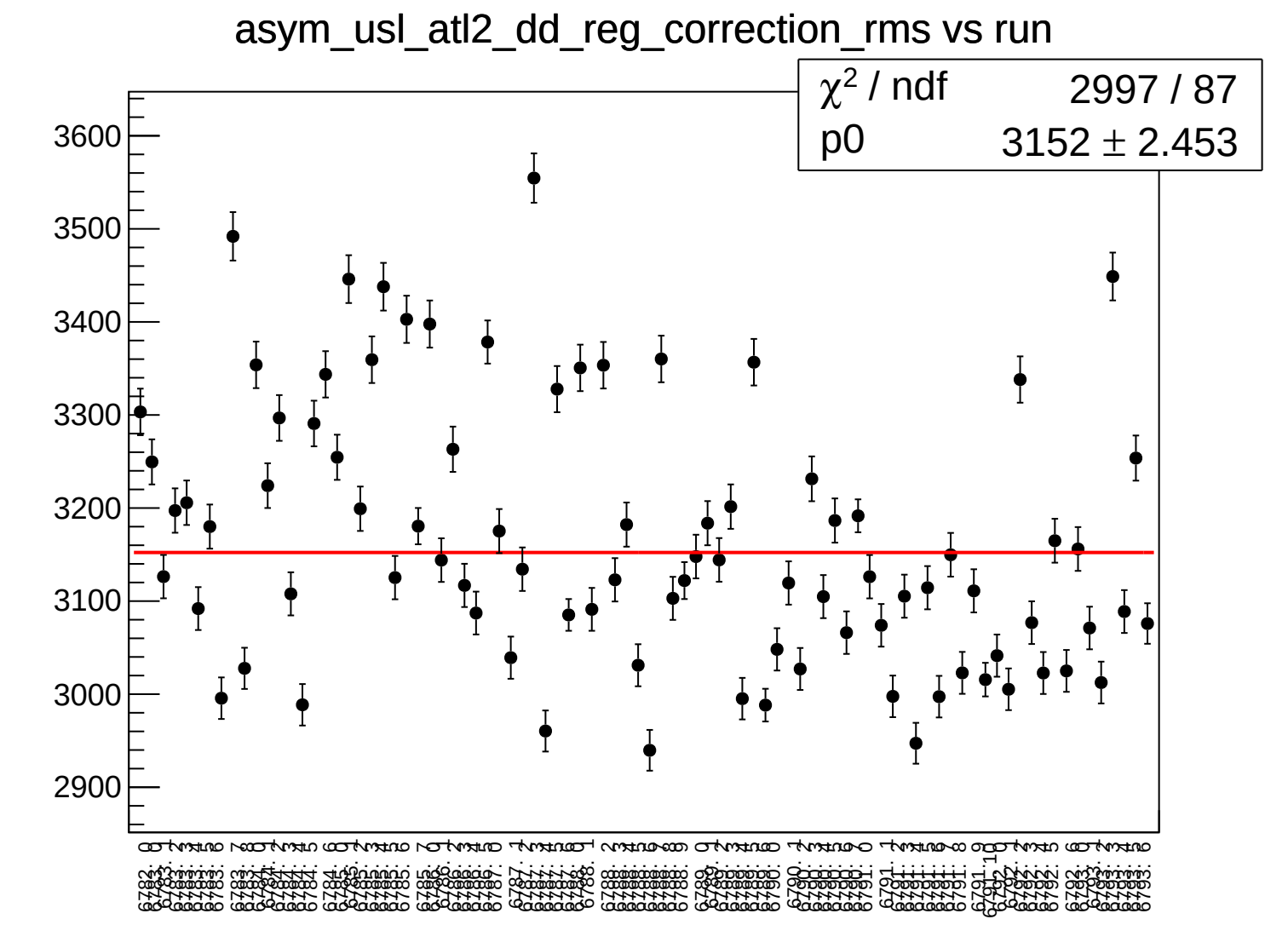

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.287e+05 / 87
p0 5.685e−11 ± 5.612e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

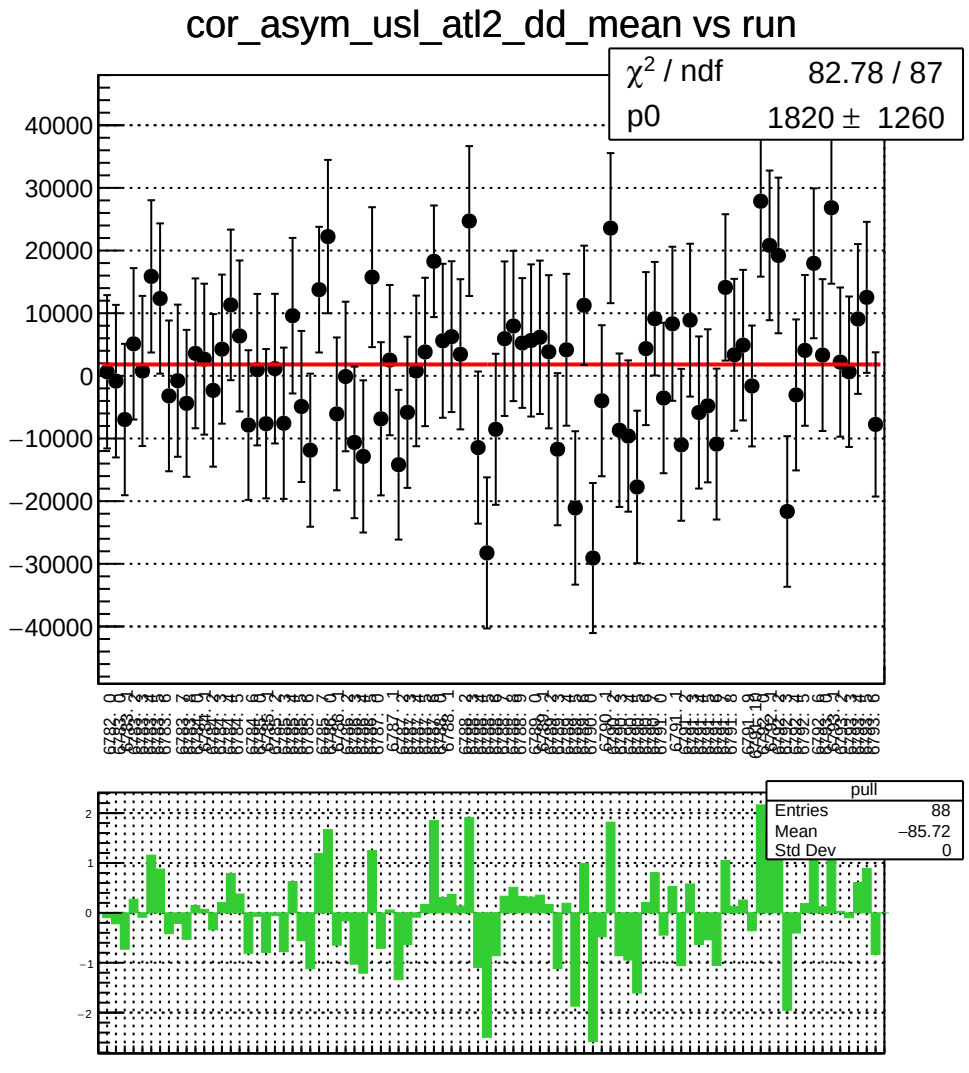

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 82.78 / 87
p0 1820 ± 1260
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −85.72
Std Dev 0
2
1
0
−1
−2

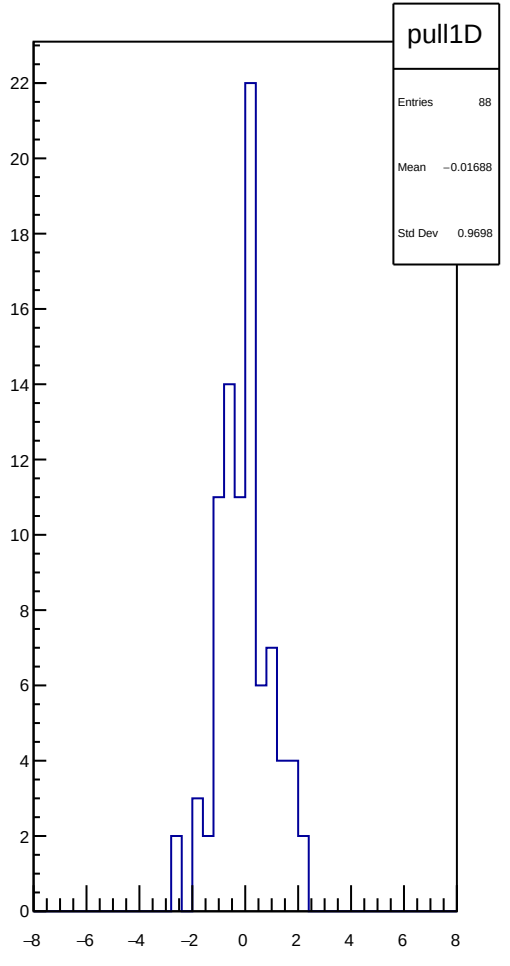

pull1D
Entries 88
Mean −0.01688
Std Dev 0.9697
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

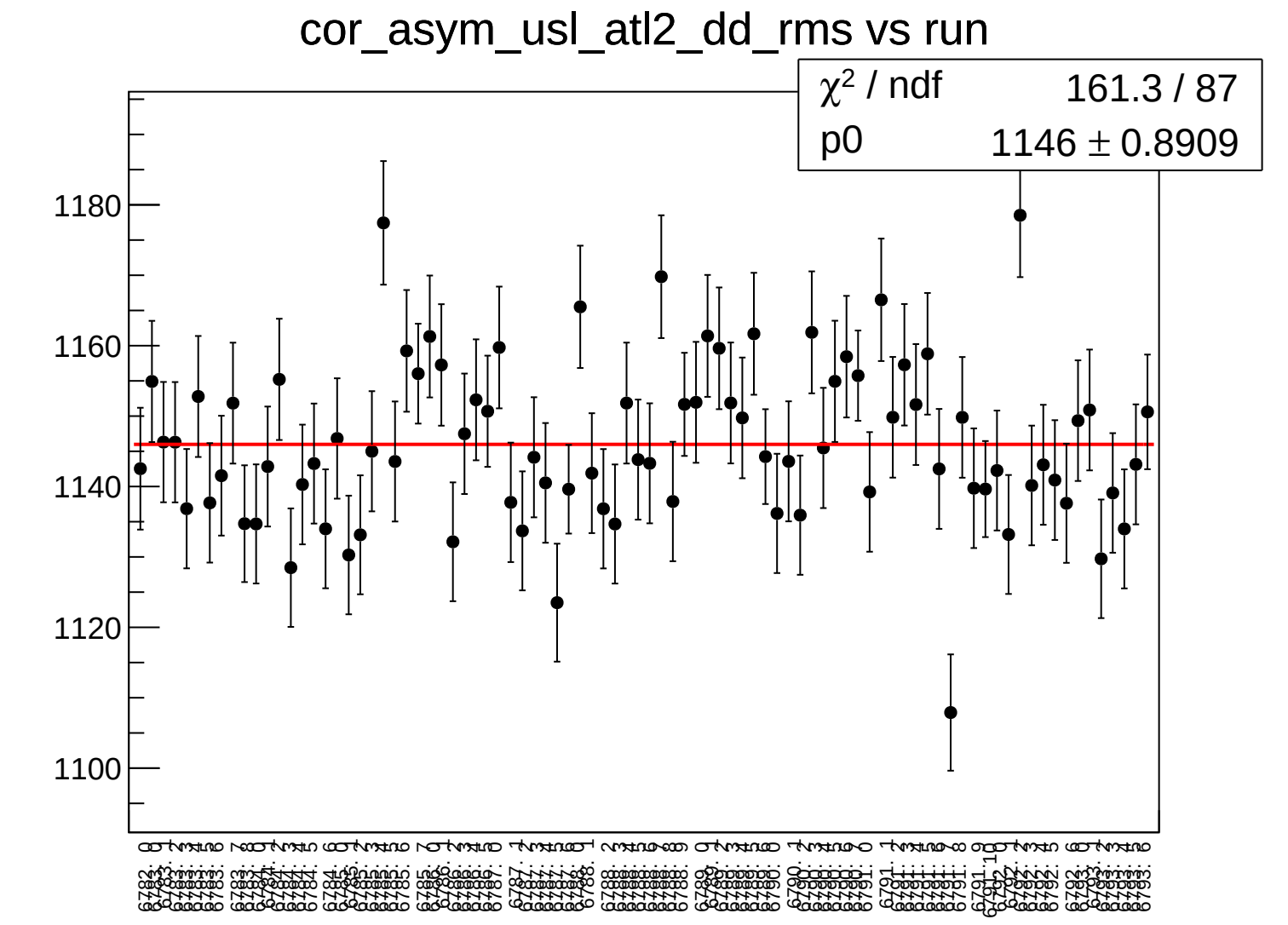

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 161.3 / 87
p0 1146 ± 0.8909
1180
1160
1140
1120
1100

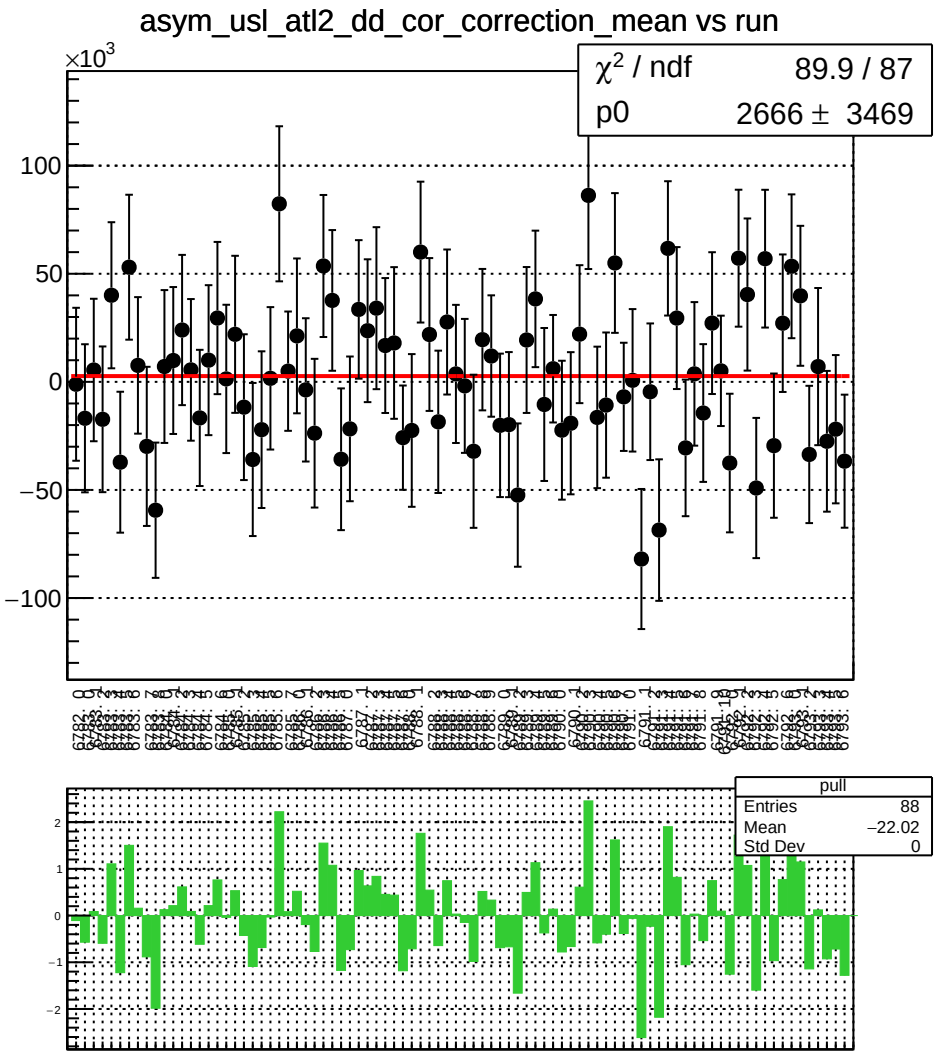

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 89.91 / 87
p0 2666 ± 3469
100
50
0
−50
−100
pull
Entries 88
Mean −21.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007778
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

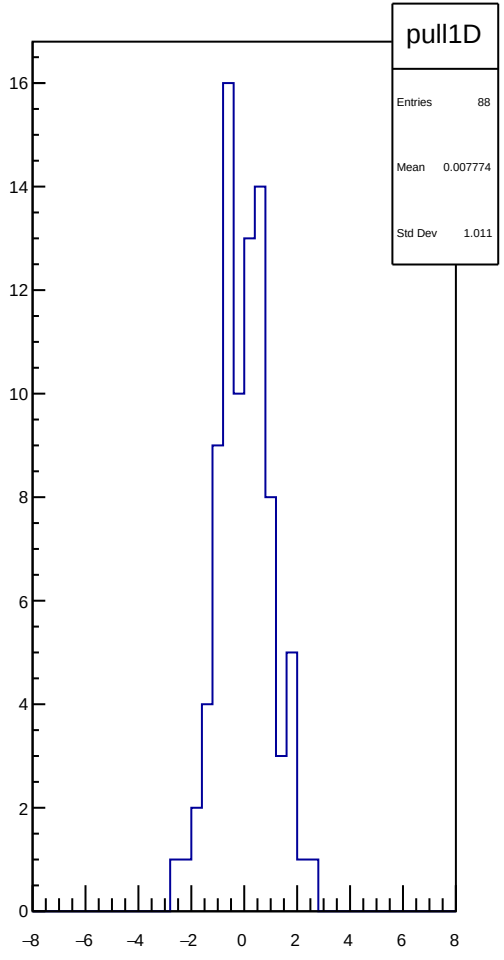

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2997 / 87
p0 3152 ± 2.453
3600
3500
3400
3300
3200
3100
3000
2900

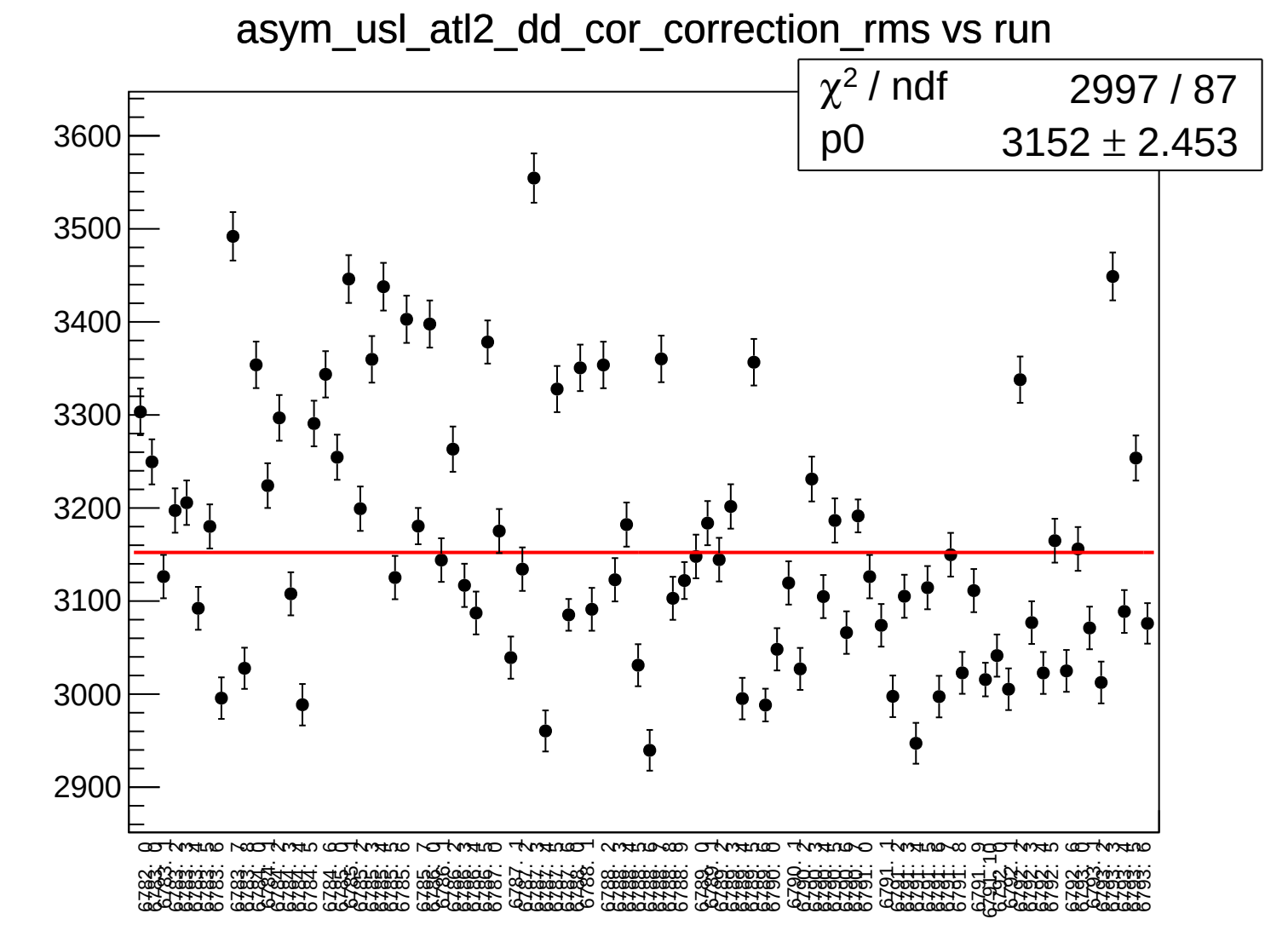

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 82.78 / 87
p0 1820 ± 1260
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −85.72
Std Dev 0
2
1
0
−1
−2

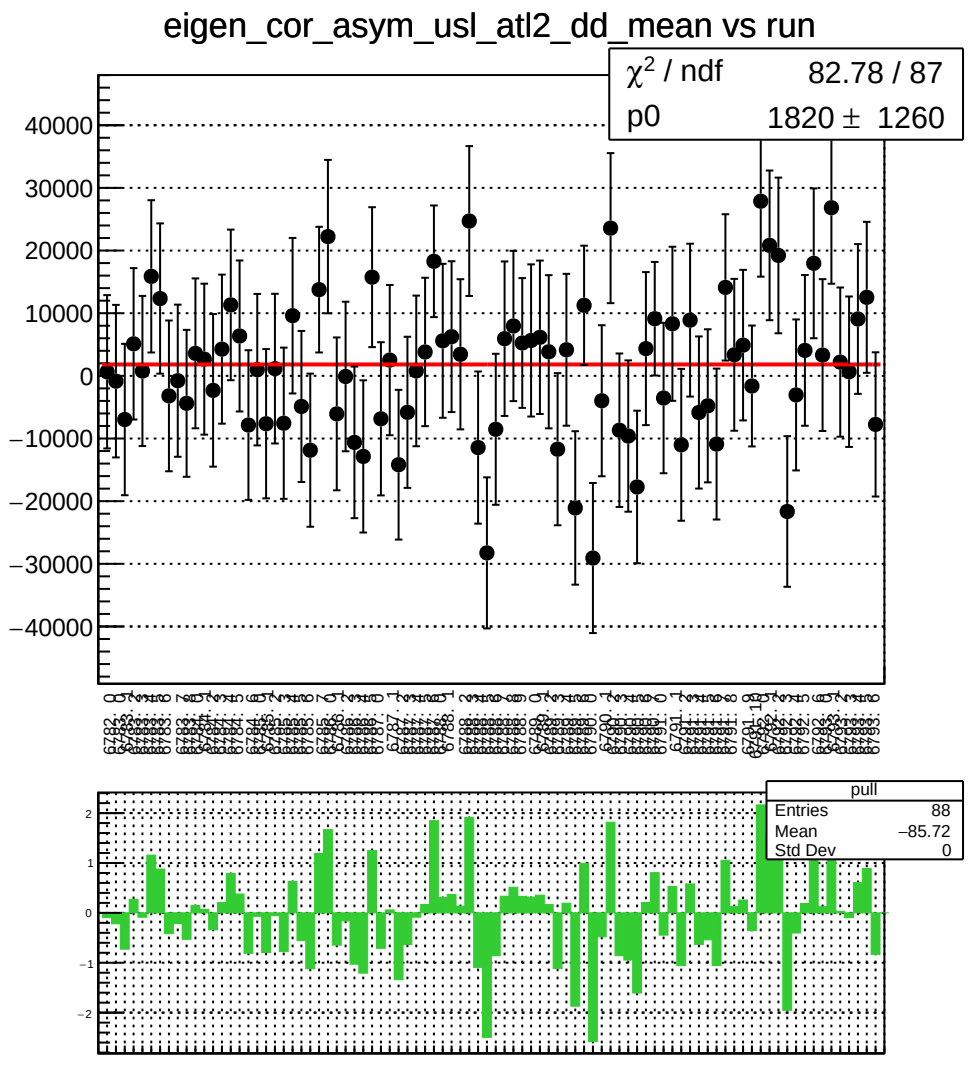

pull1D
Entries 88
Mean −0.01688
Std Dev 0.9698
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

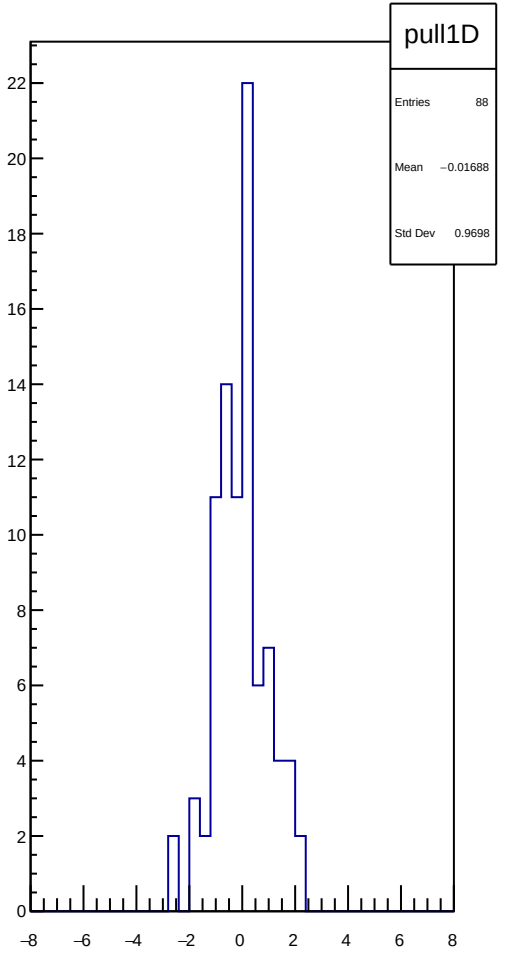

cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 161.3 / 87
p0 1146 ± 0.8909
1180
1160
1140
1120
1100

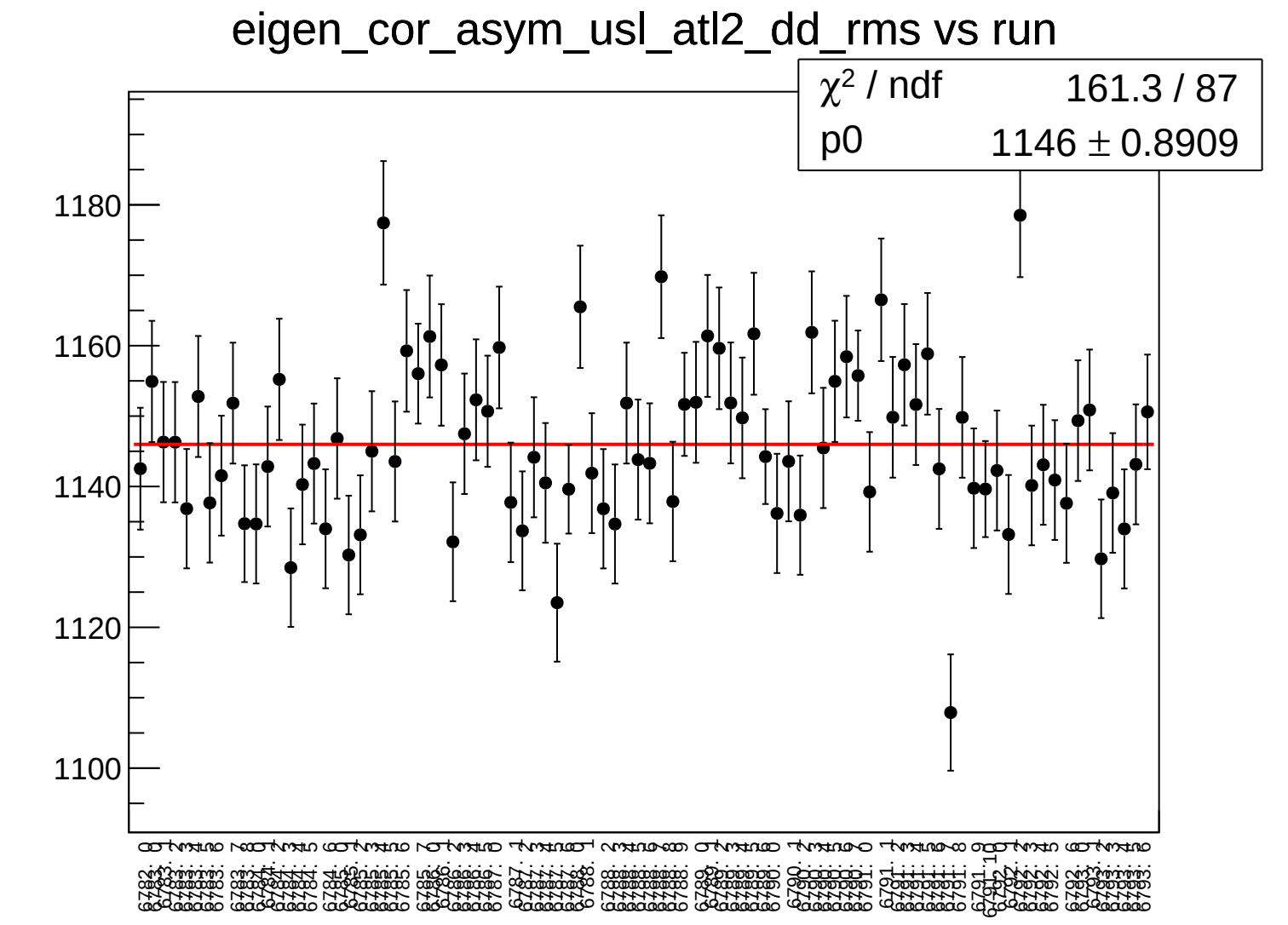

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.9 / 87
p0 2666 ± 3469
100
50
0
−50
−100
pull
Entries 88
Mean −22.02
Std Dev 0
2
1
0
−1
−2

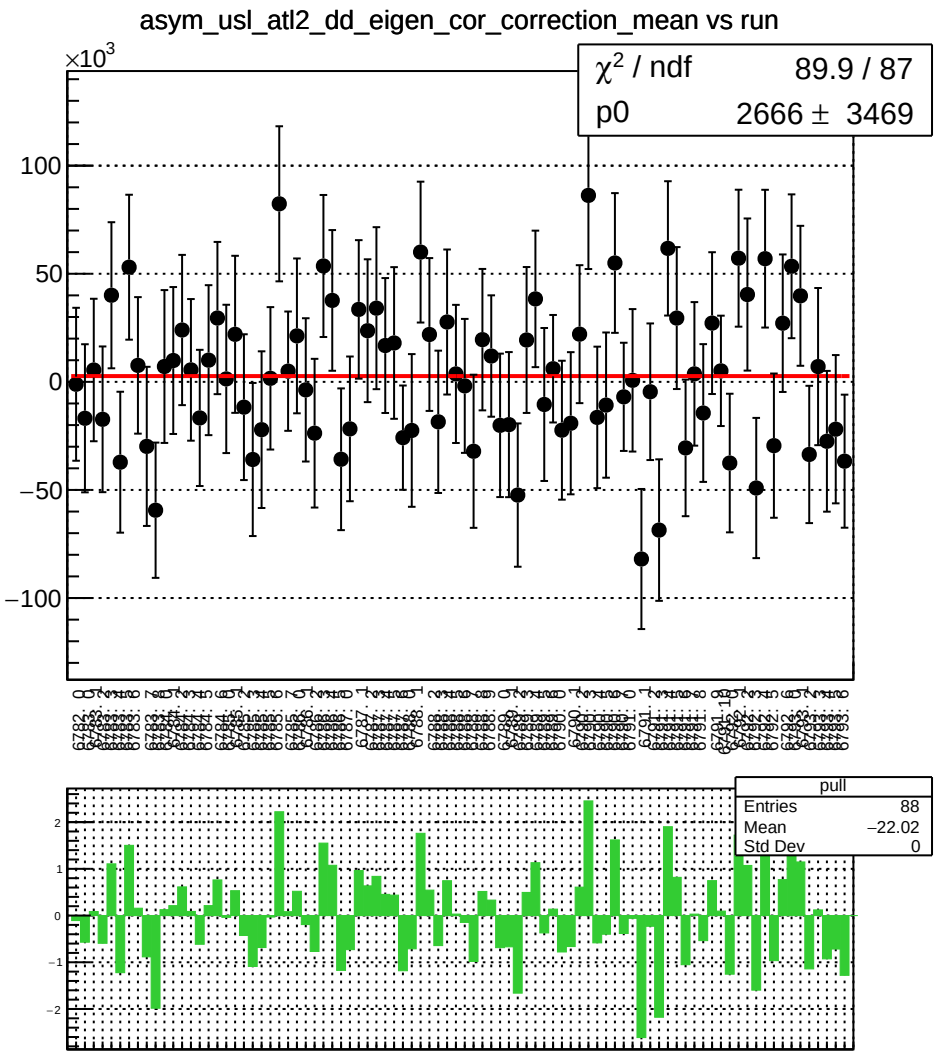

pull1D
Entries 88
Mean 0.007774
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

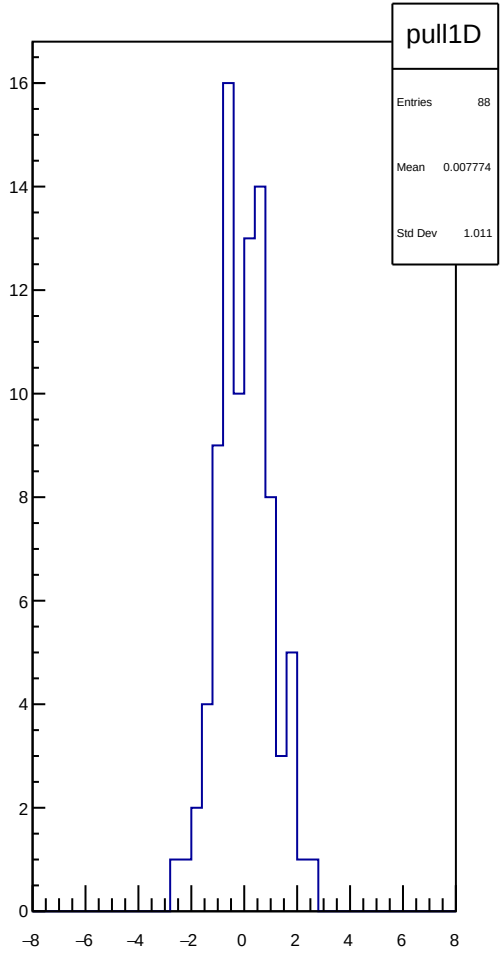

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2997 / 87
p0 3152 ± 2.453
3600
3500
3400
3300
3200
3100
3000
2900

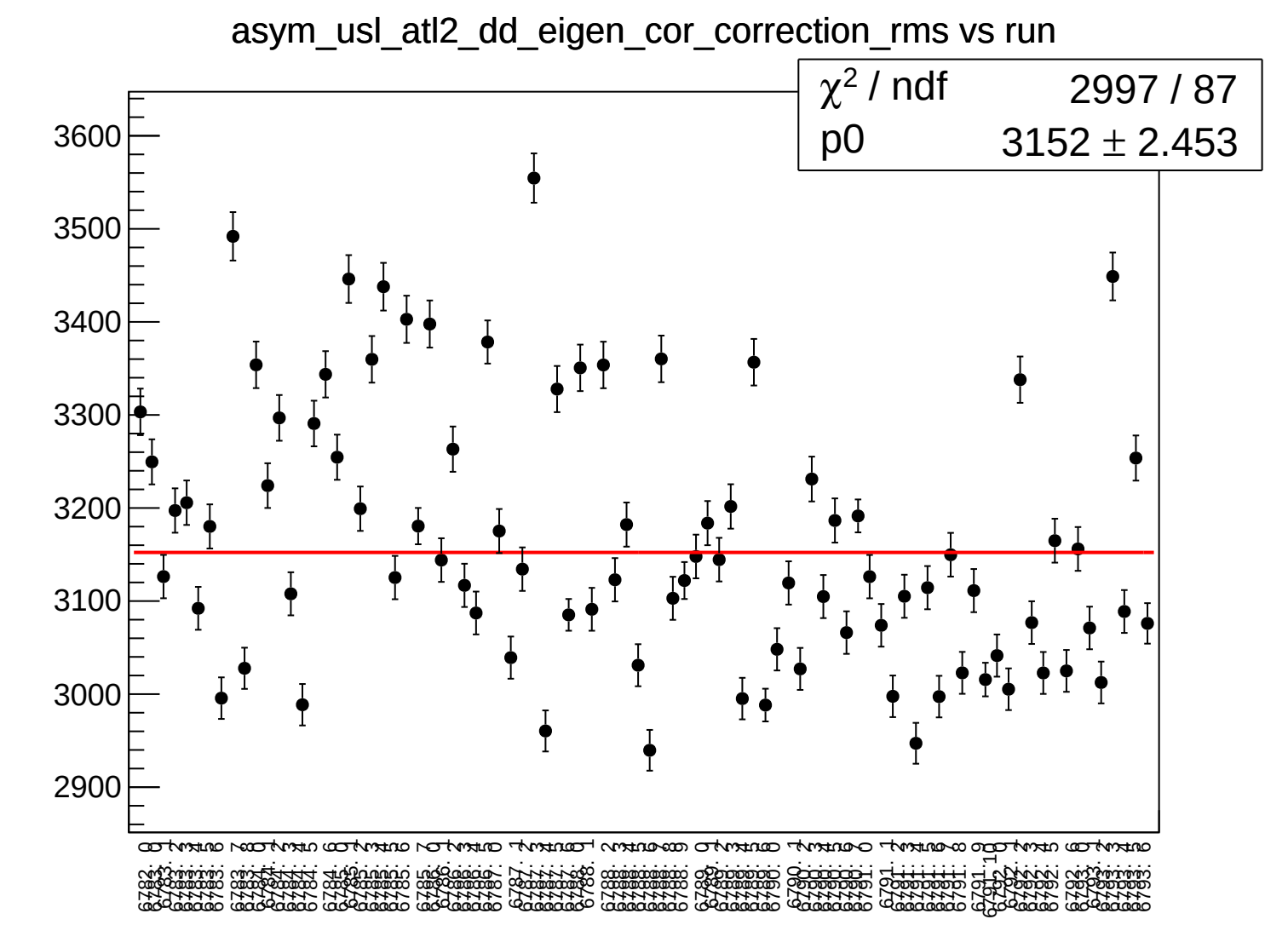

eigen_cor_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 82.78 / 87
p0 1820 ± 1260
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −85.72
Std Dev 0
2
1
0
−1
−2

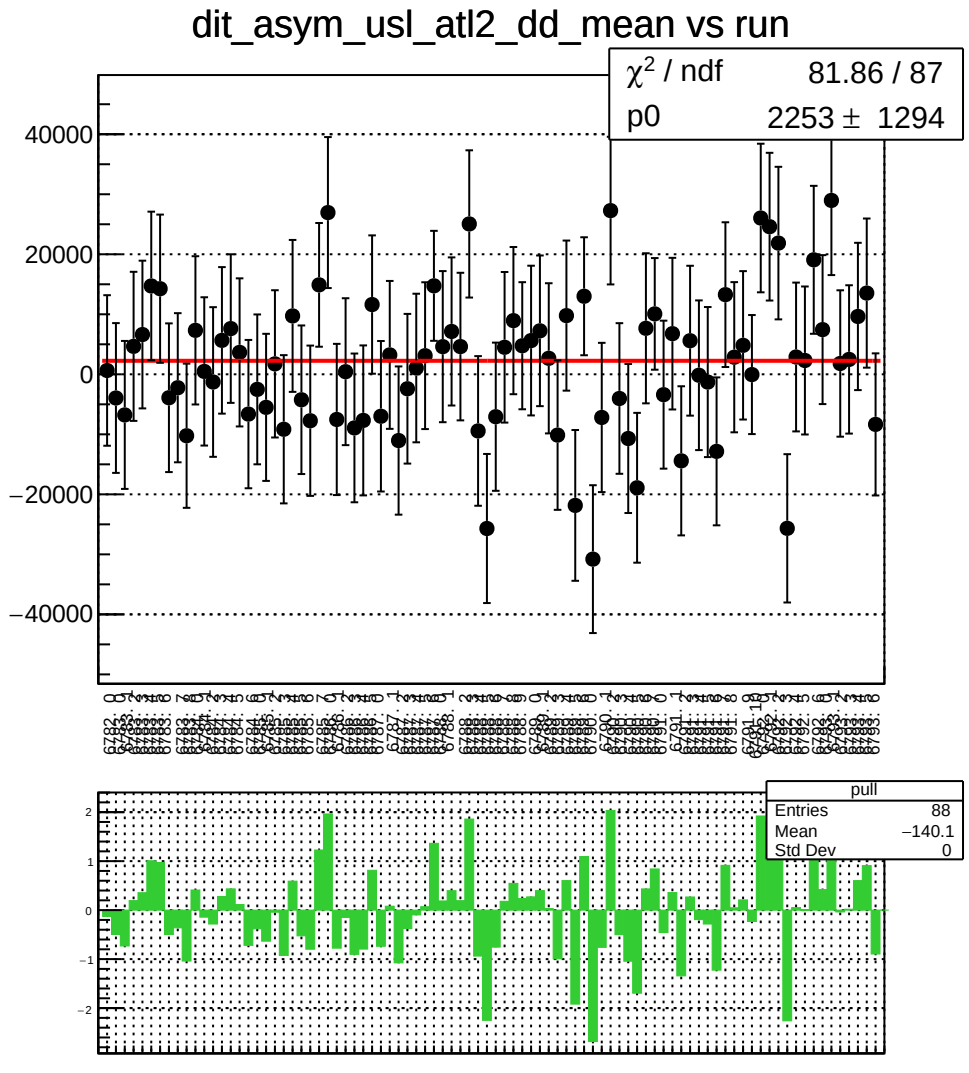

pull1D
Entries 88
Mean −0.01688
Std Dev 0.9698
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

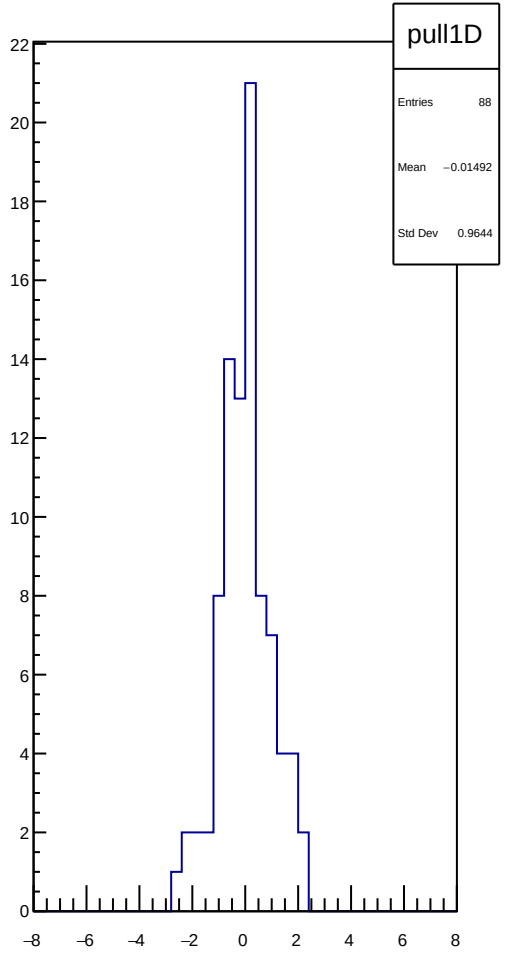

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 161.3 / 87
p0 1146 ± 0.8909
1180
1160
1140
1120
1100

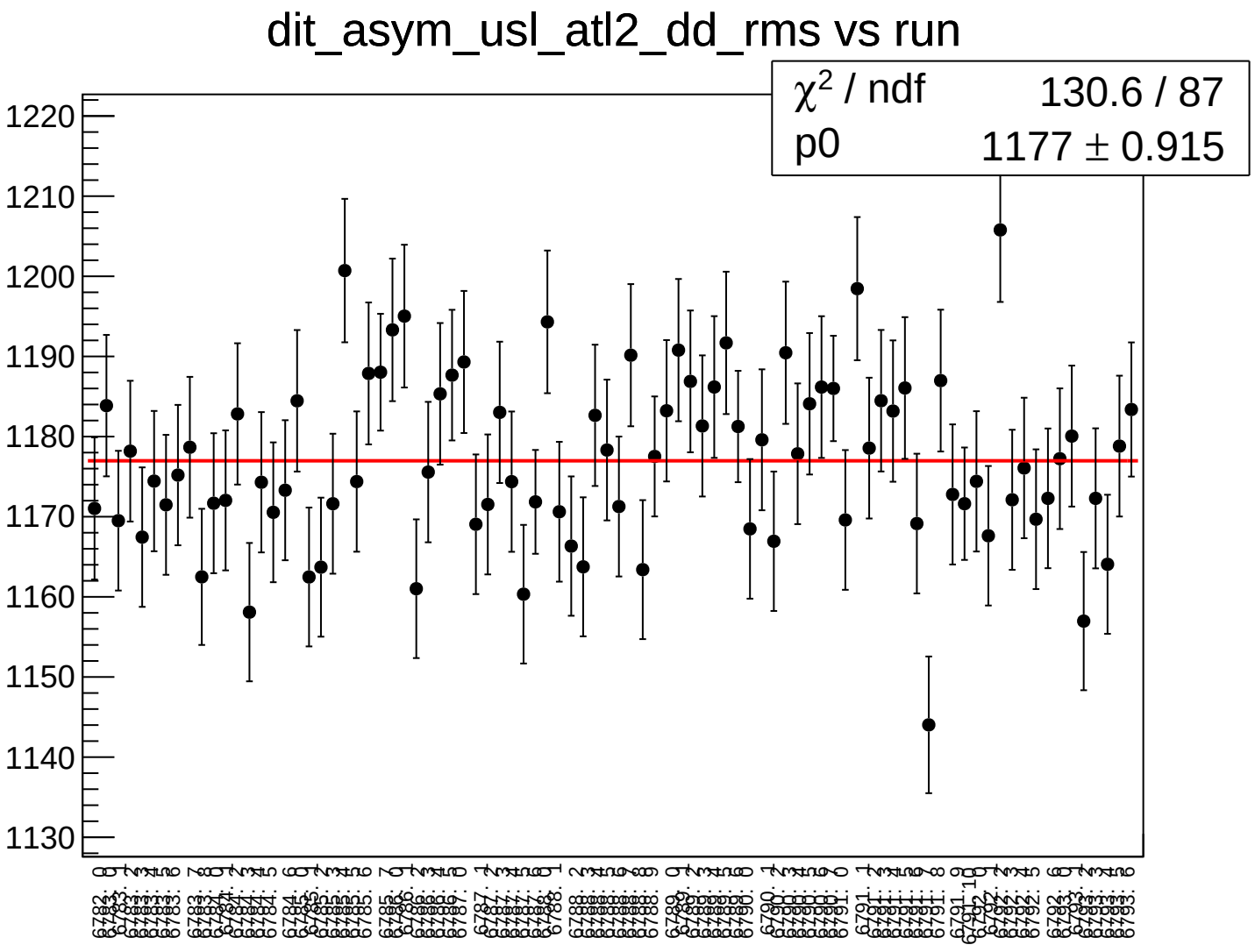

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.9 / 87
p0 2666 ± 3469
100
50
0
−50
−100
pull
Entries 88
Mean −22.02
Std Dev 0
2
1
0
−1
−2

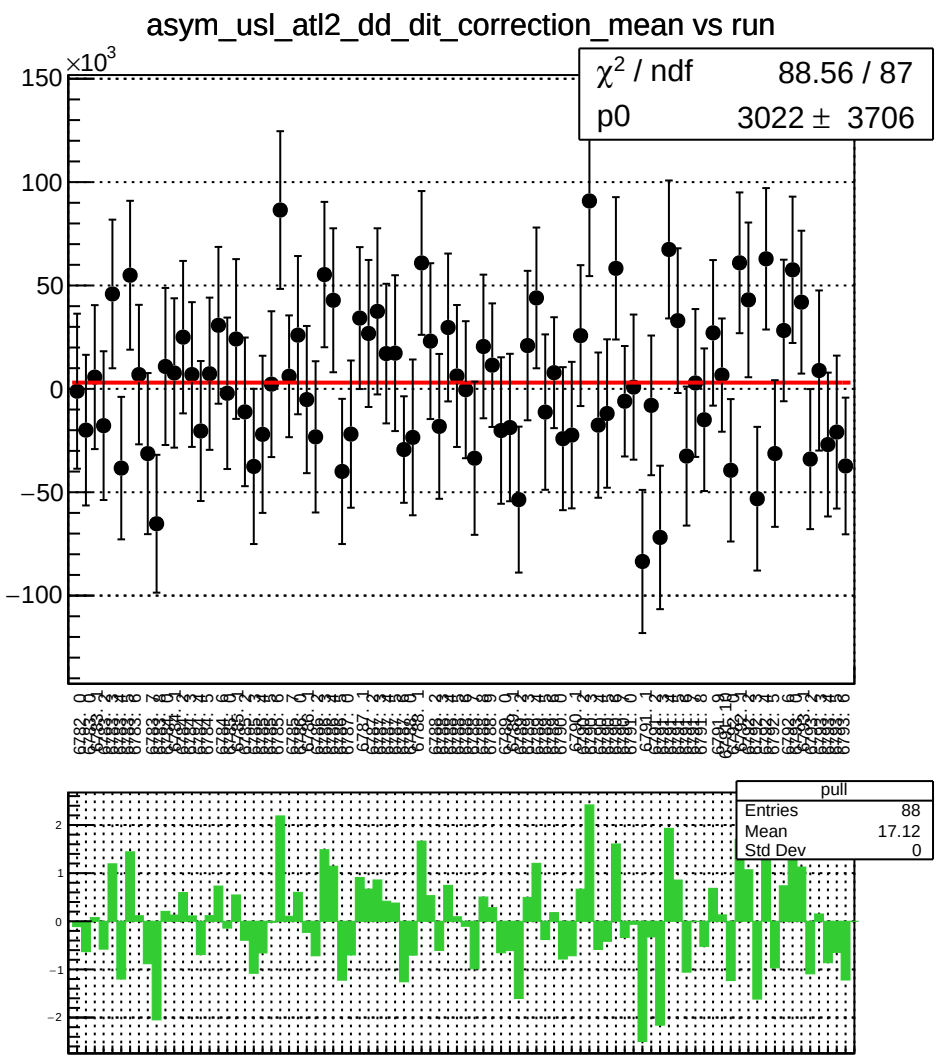

pull1D
Entries 88
Mean 0.007774
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

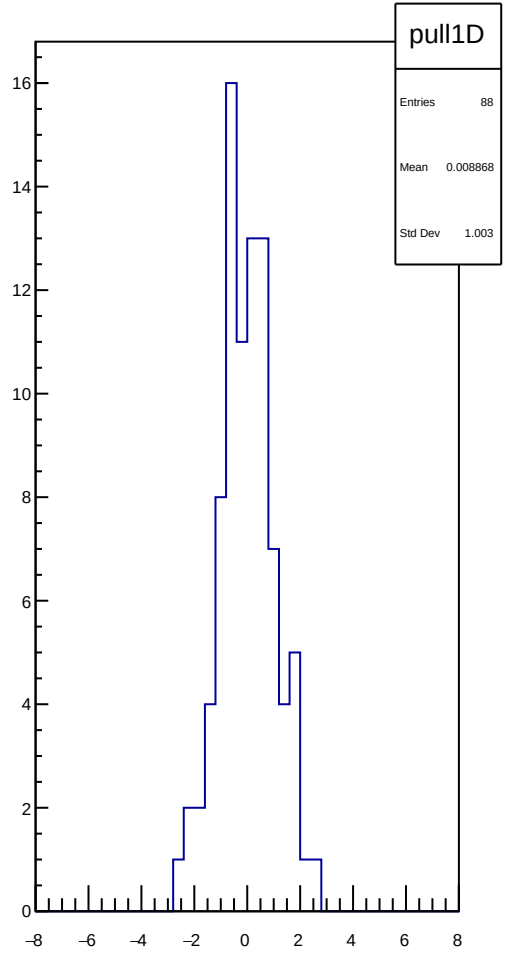

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2997 / 87
p0 3152 ± 2.453
3600
3500
3400
3300
3200
3100
3000
2900

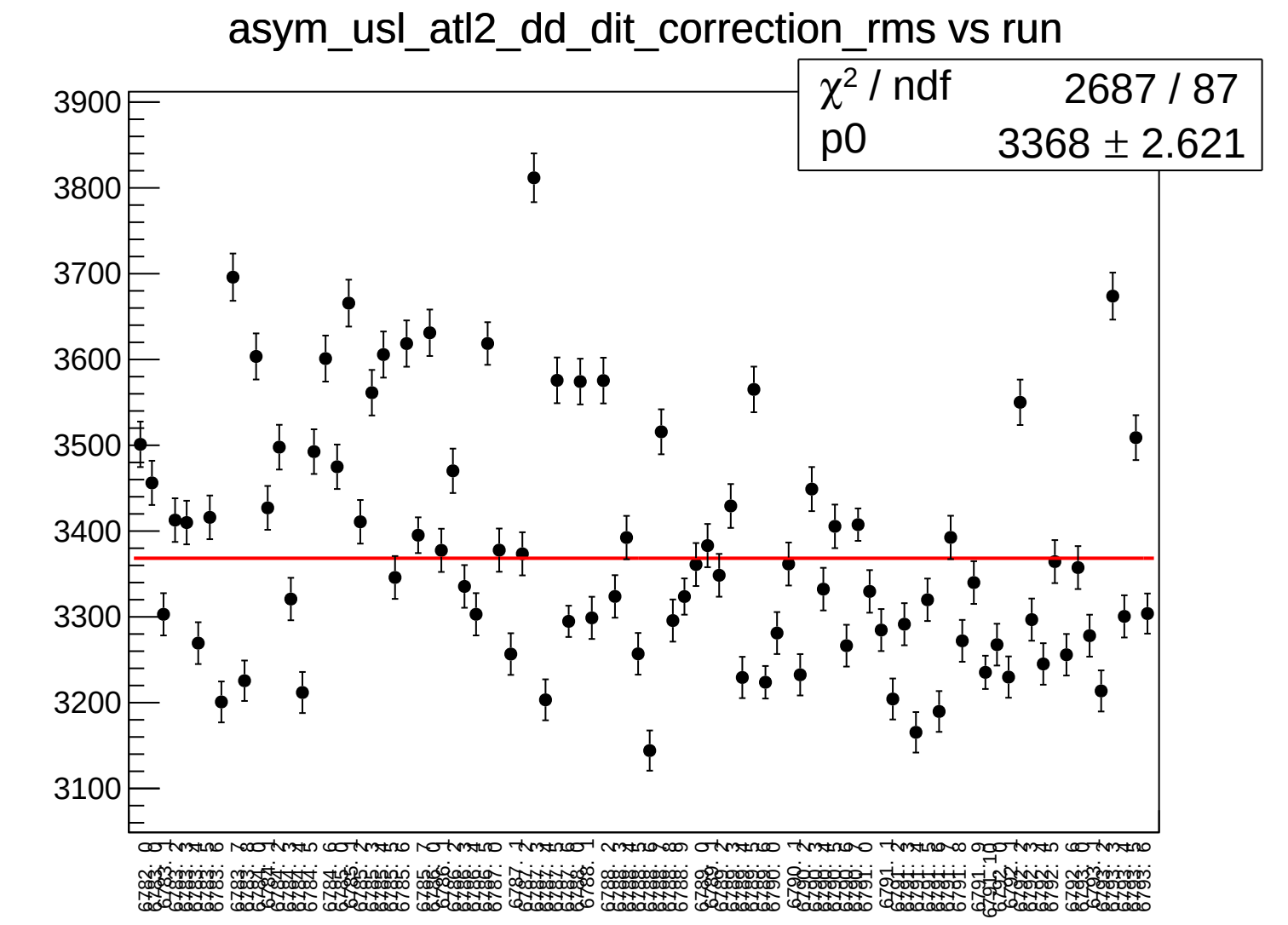

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.86 / 87
p0 2253 ± 1294
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −140.1
Std Dev 0
2
1
0
−1
−2

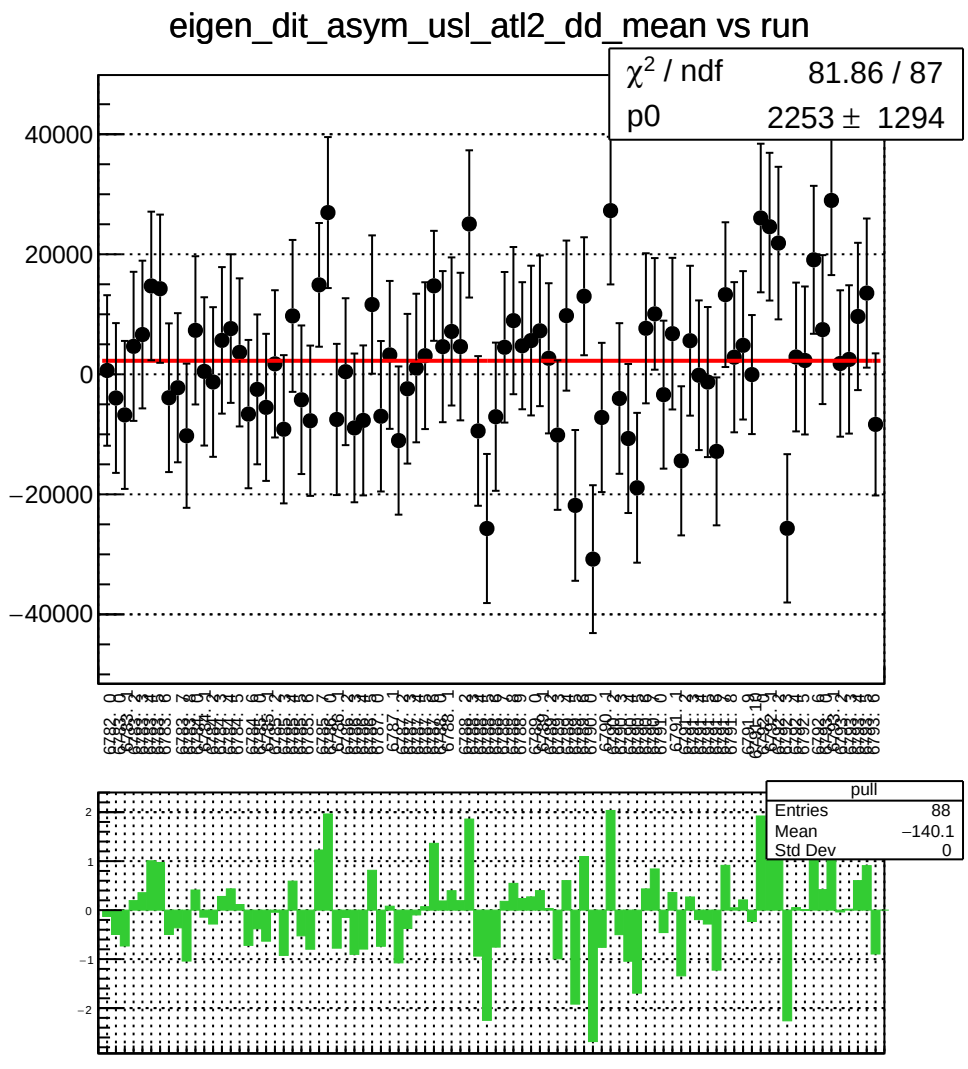

pull1D
Entries 88
Mean −0.01492
Std Dev 0.9644
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

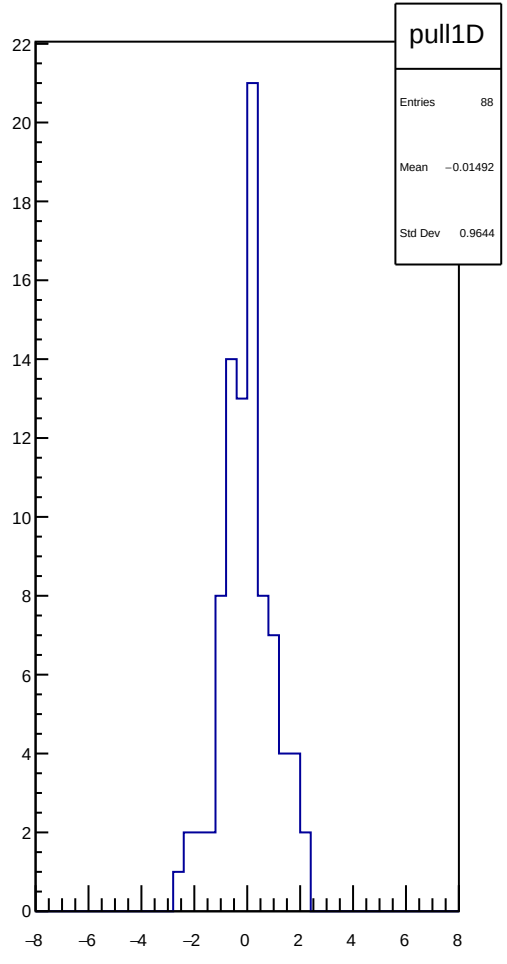

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 130.6 / 87
p0 1177 ± 0.915
1220
1210
1200
1190
1180
1170
1160
1150
1140
1130

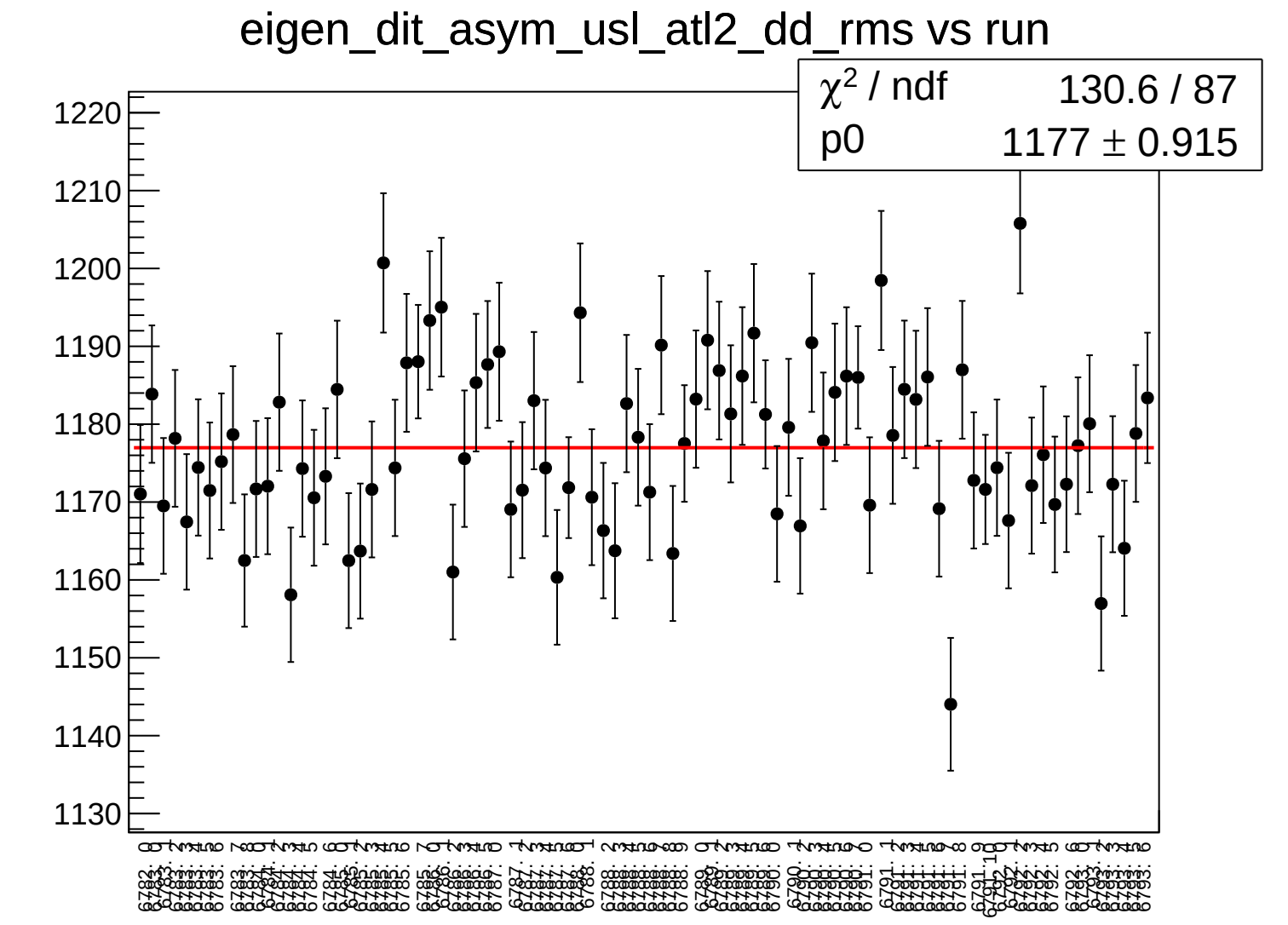

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.56 / 87
p0 3022 ± 3706
150
100
50
0
−50
−100
pull
Entries 88
Mean 17.12
Std Dev 0
2
1
0
−1
−2

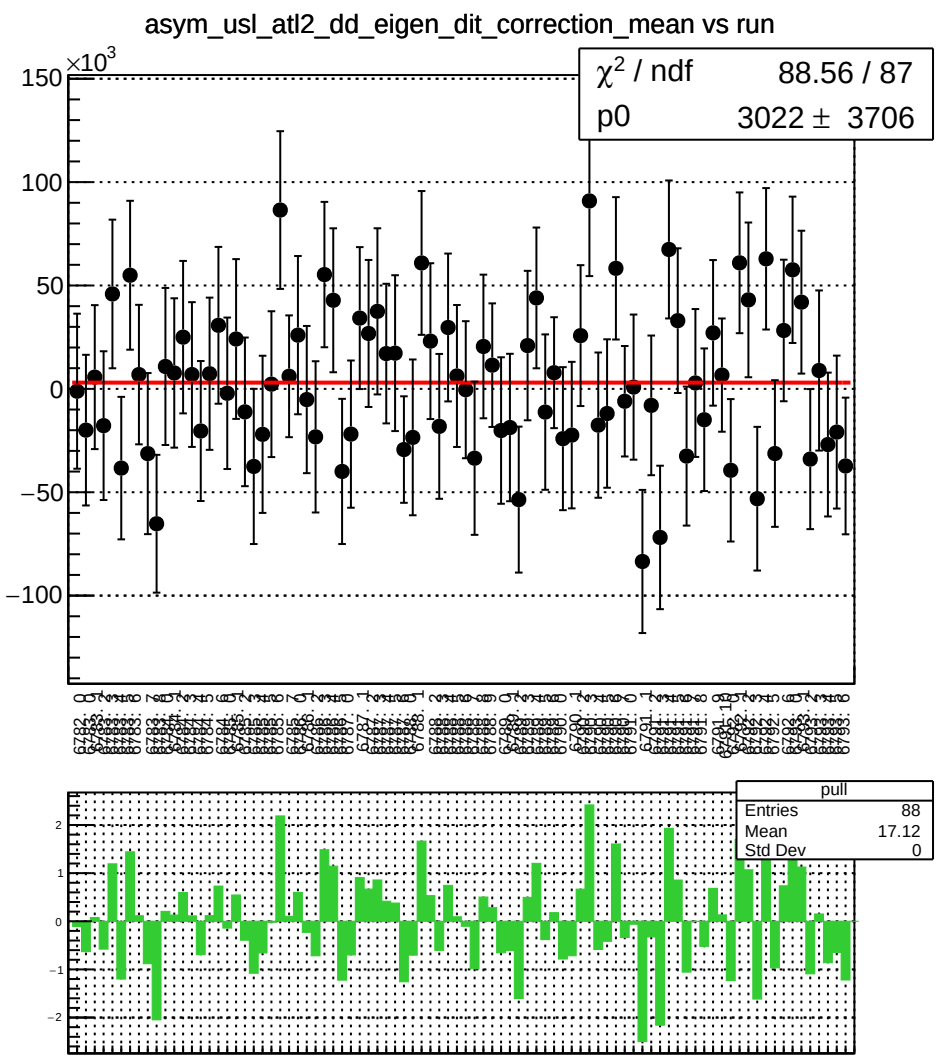

pull1D
Entries 88
Mean 0.008868
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

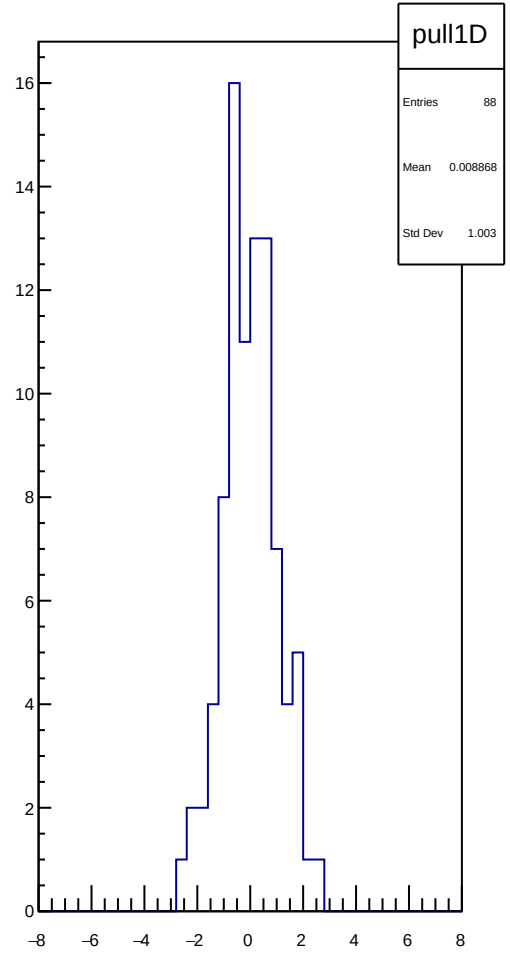

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2687 / 87
p0 3368 ± 2.621
3900
3800
3700
3600
3500
3400
3300
3200
3100

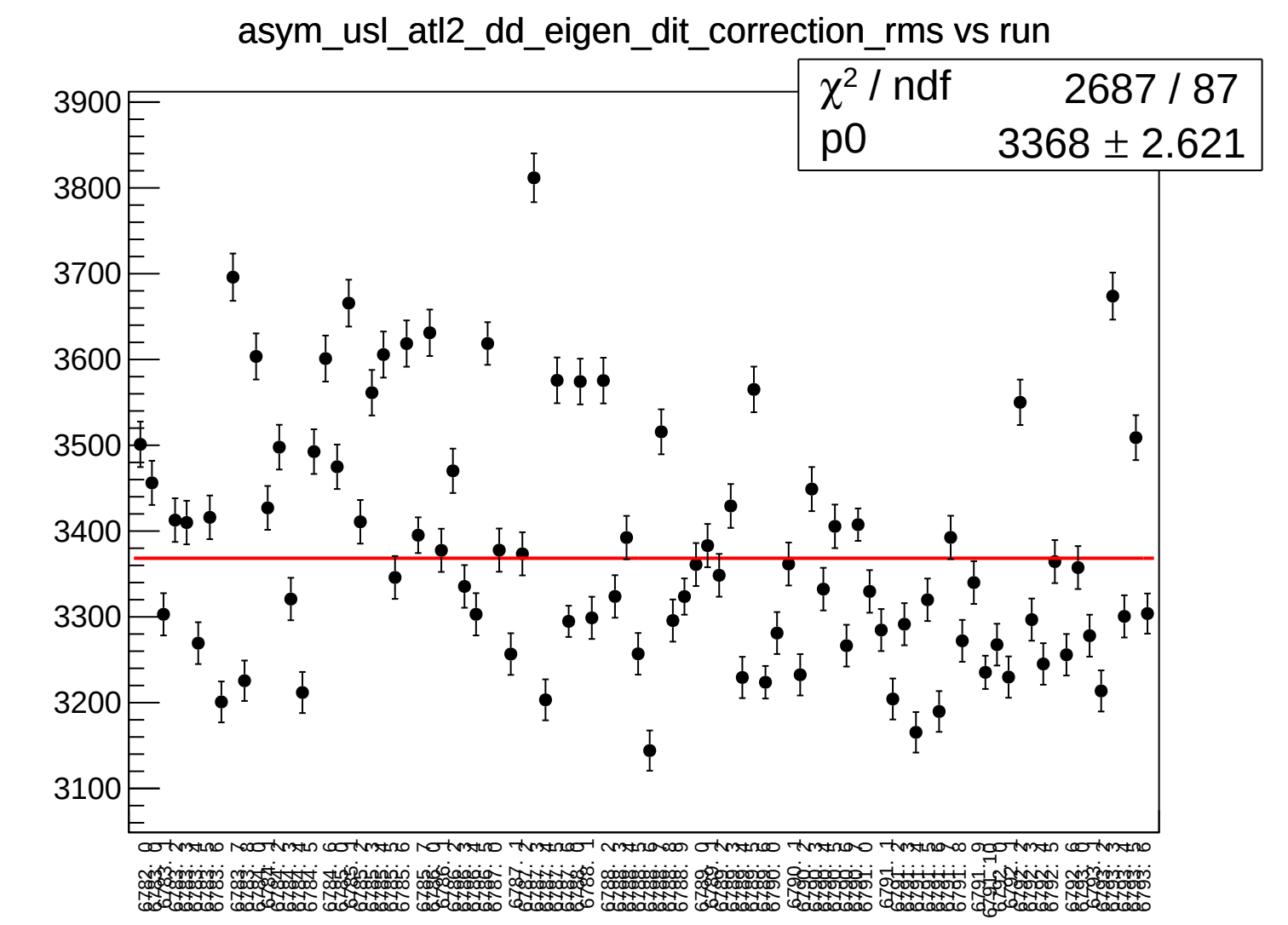

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.86 / 87
p0 2253 ± 1294
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −140.1
Std Dev 0
2
1
0
−1
−2

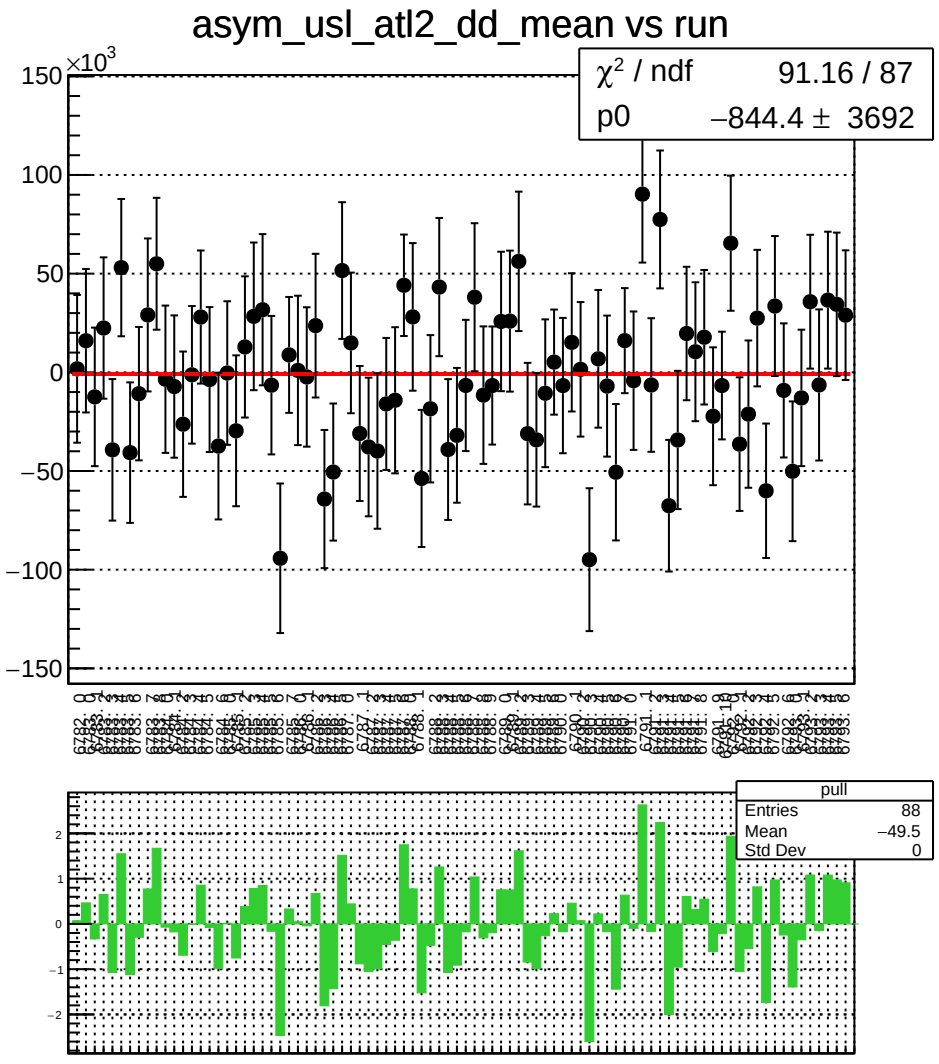

pull1D
Entries 88
Mean −0.01492
Std Dev 0.9644
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

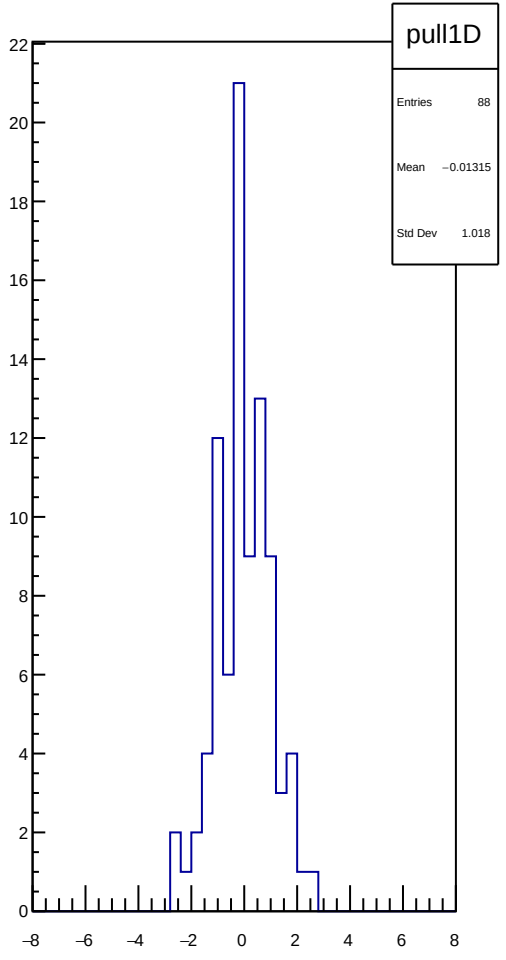

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 130.6 / 87
p0 1177 ± 0.915
1220
1210
1200
1190
1180
1170
1160
1150
1140
1130

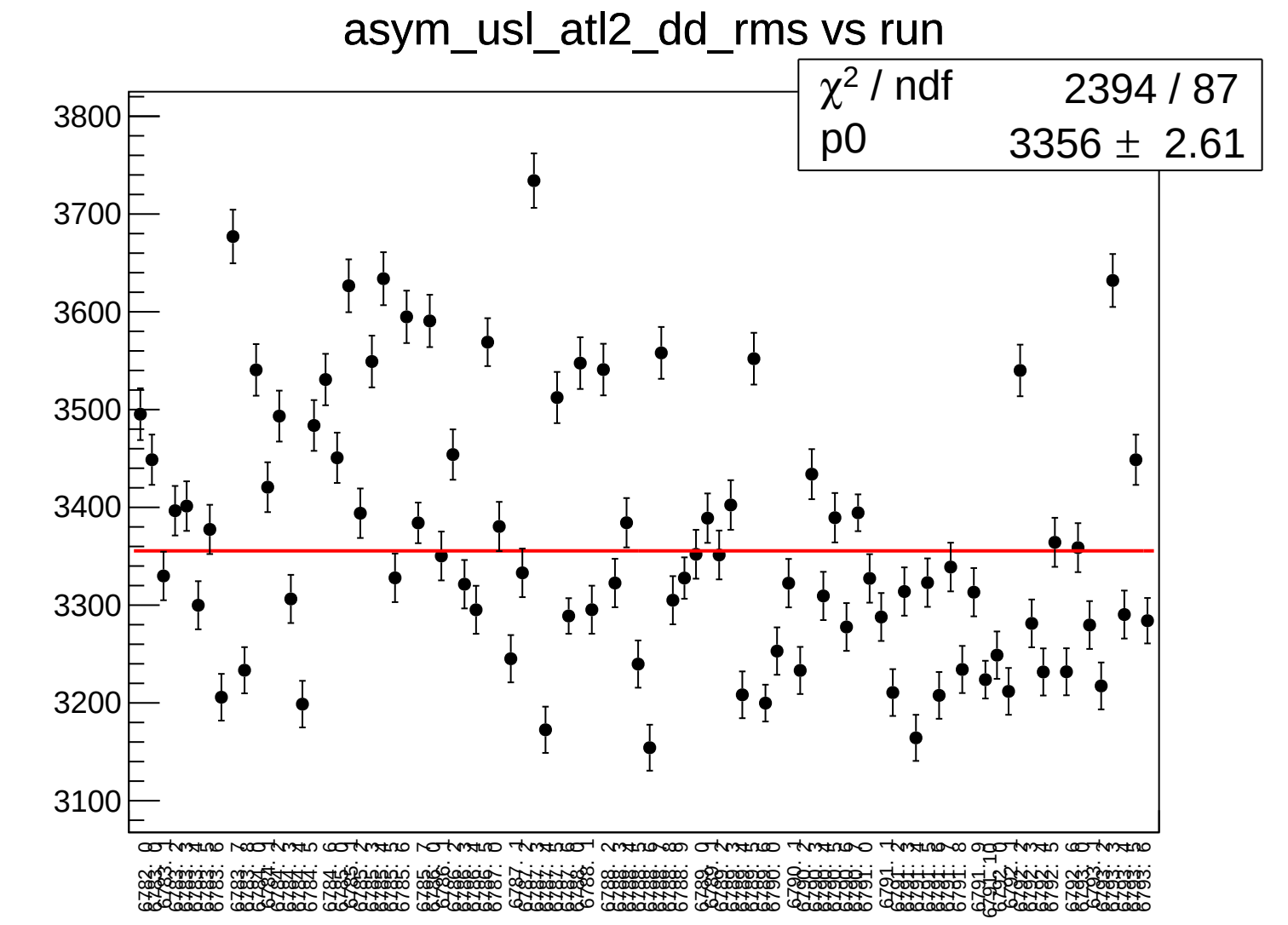

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 88.56 / 87
p0 3022 ± 3706
pull
Entries 88
Mean 17.12
Std Dev 0
2
1
0
−1
−2

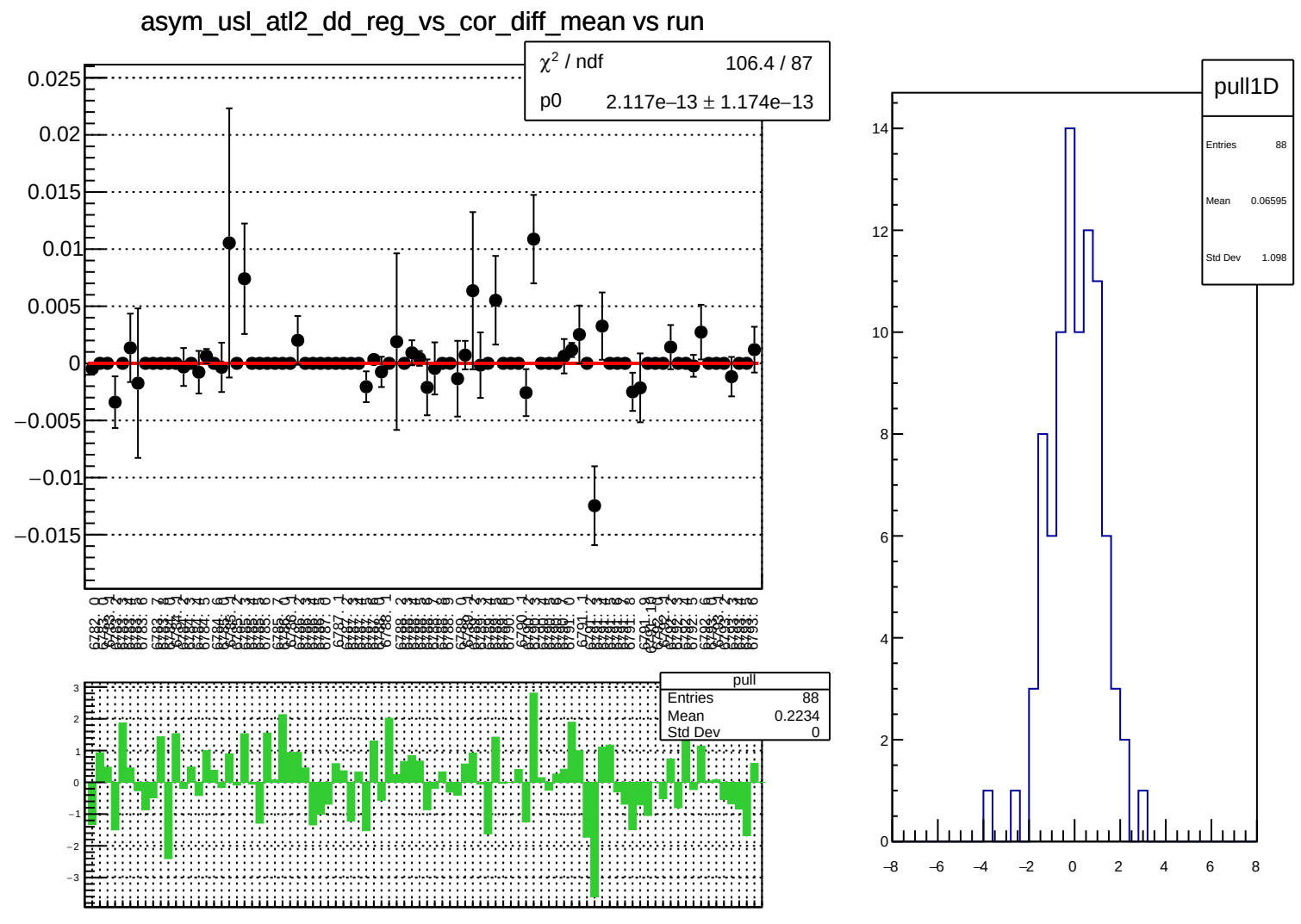

pull1D
Entries 88
Mean 0.008868
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

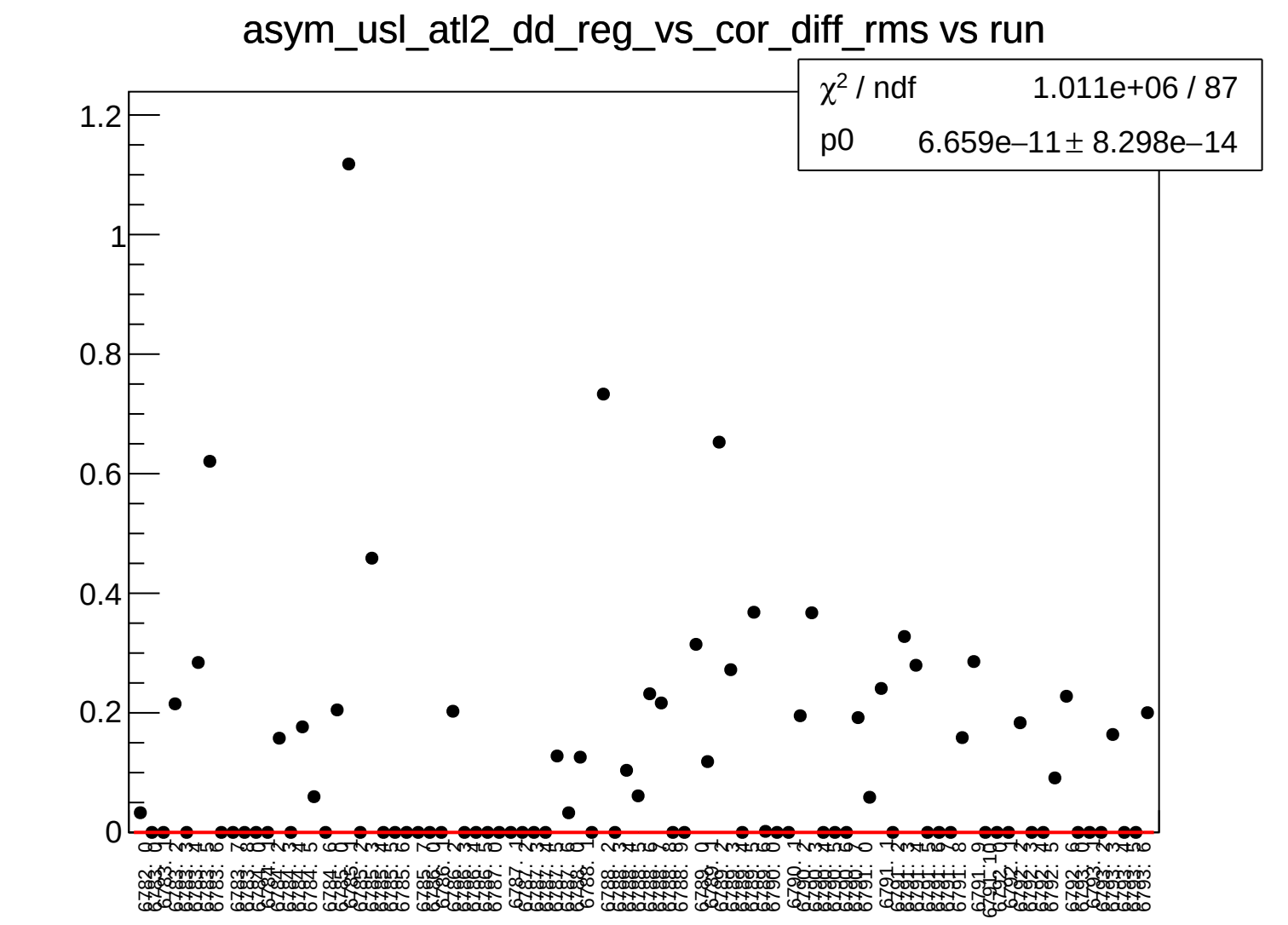

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2687 / 87
p0 3368 ± 2.621
3900
3800
3700
3600
3500
3400
3300
3200
3100

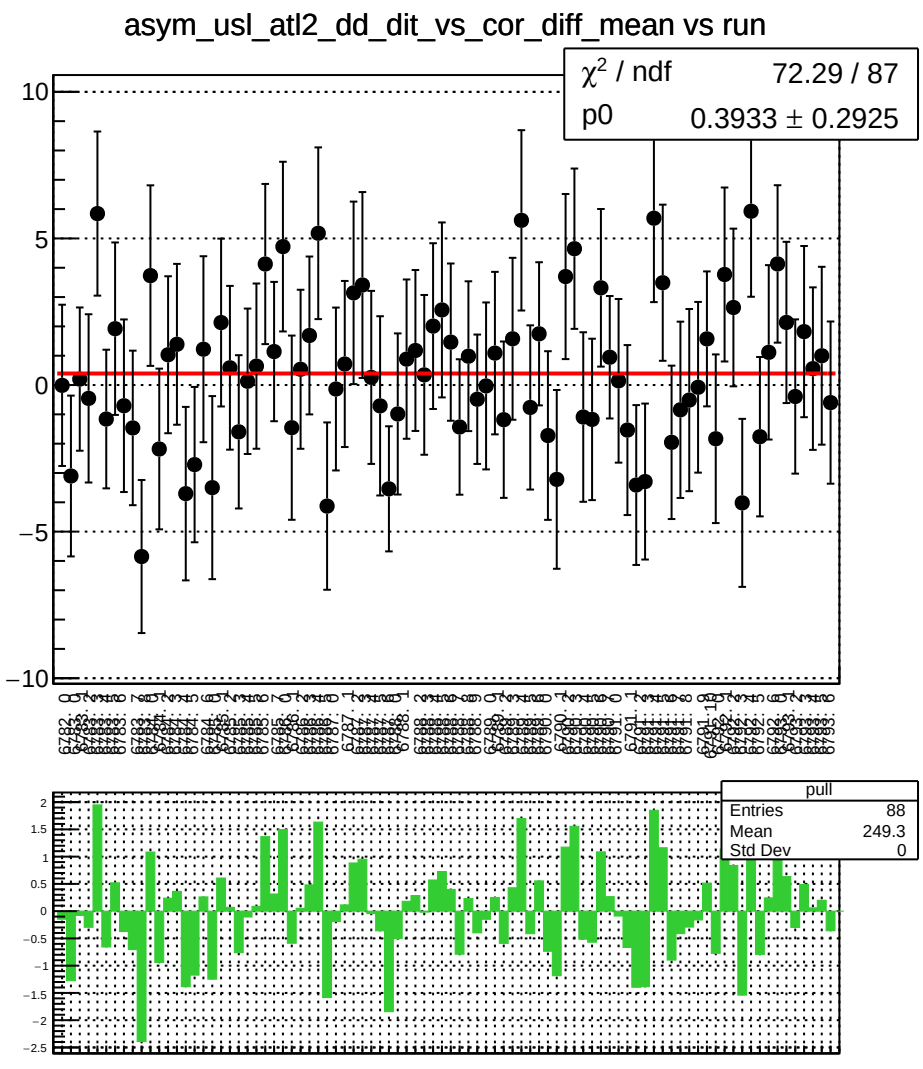

asym_usl_atl2_dd_mean vs run
χ² / ndf 91.16 / 87
p0 −844.4 ± 3692
×10³
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −49.5
Std Dev 0
2
1
0
−1
−2

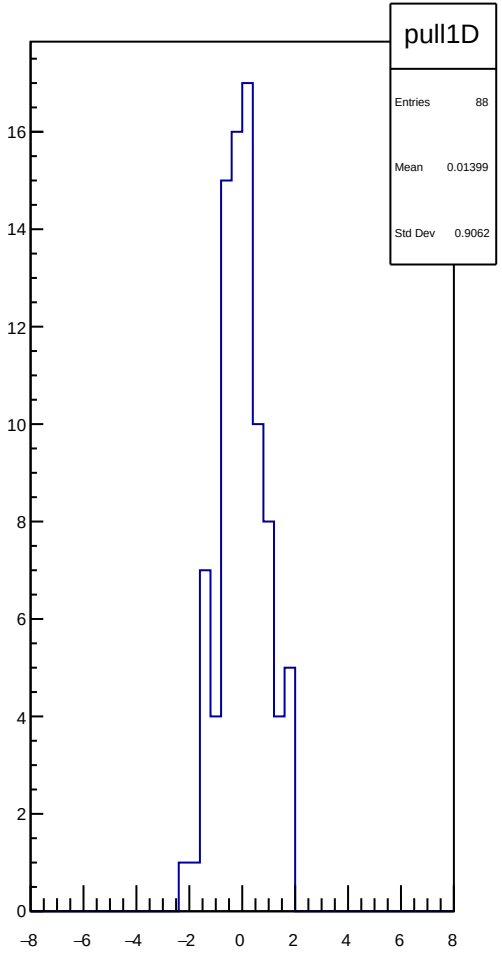

pull1D
Entries 88
Mean −0.01315
Std Dev 1.018
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

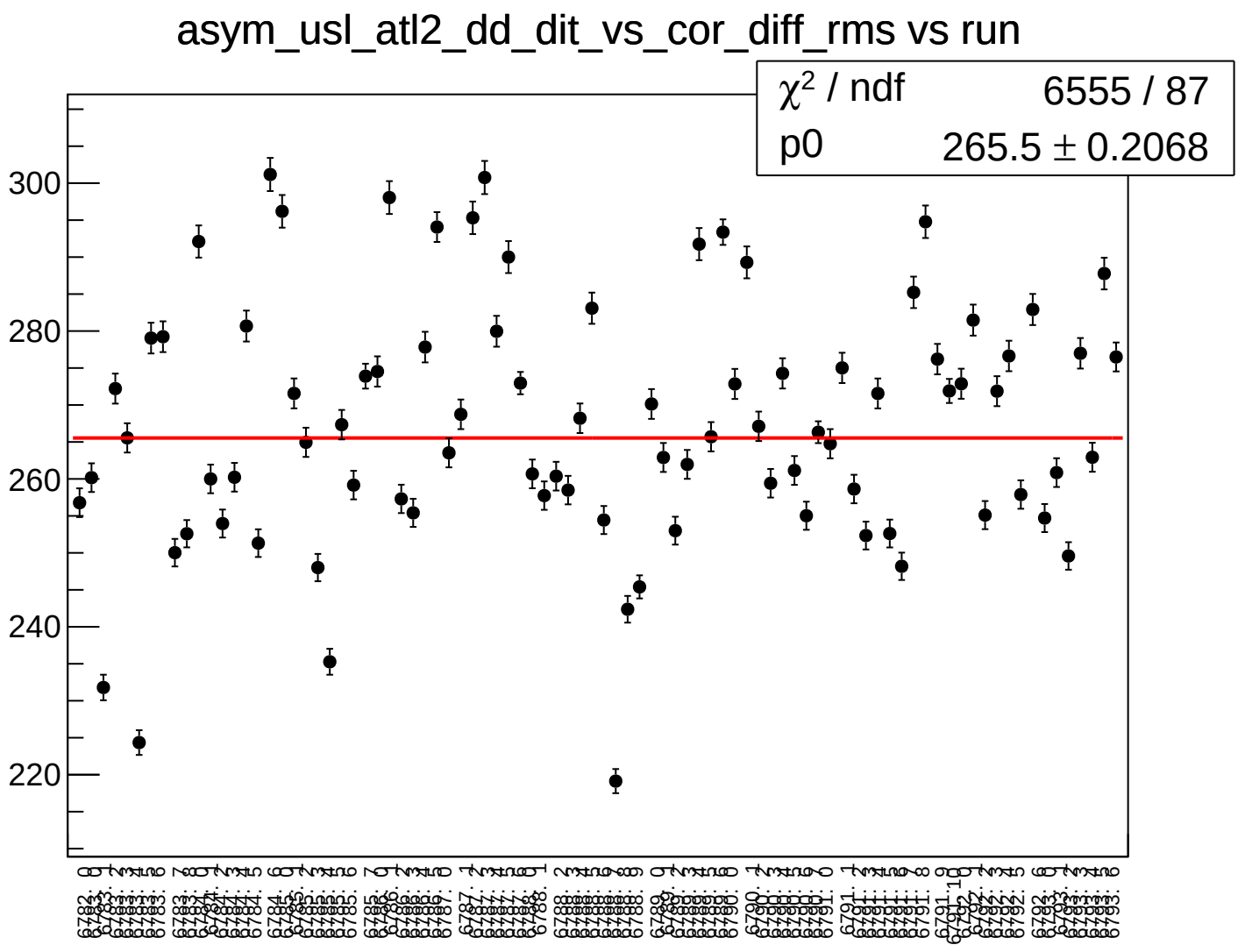

asym_usl_atl2_dd_rms vs run
χ² / ndf 2394 / 87
p0 3356 ± 2.61
3800
3700
3600
3500
3400
3300
3200
3100

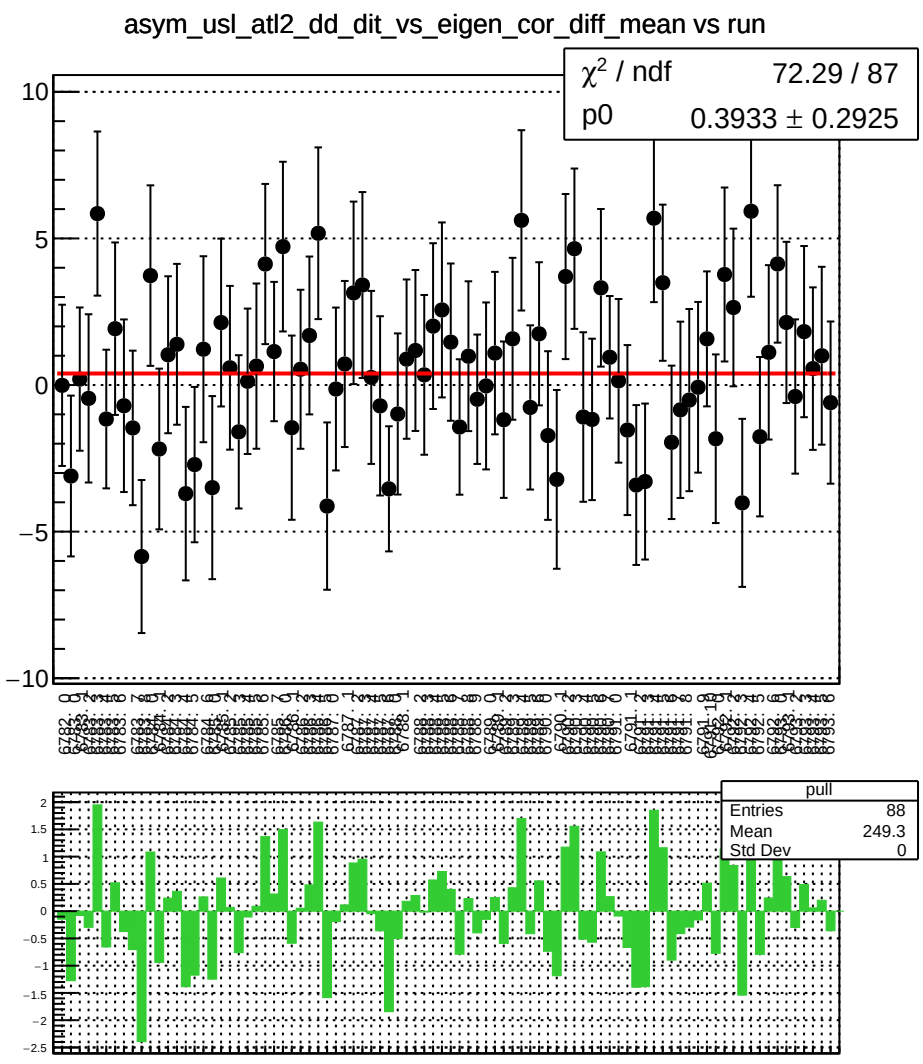

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 87
p0 2.117e−13 ± 1.174e−13
pull
Entries 88
Mean 0.2234
Std Dev 0
pull1D
Entries 88
Mean 0.06595
Std Dev 1.098

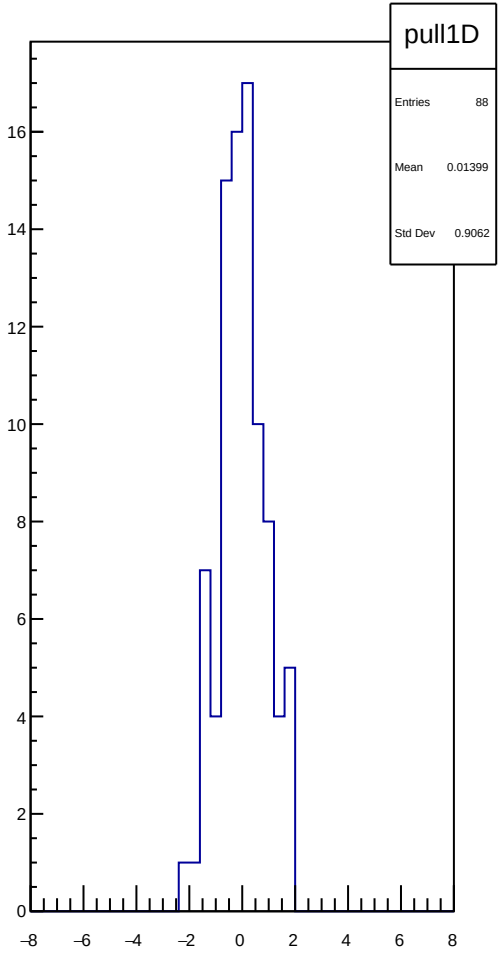

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 87
p0 6.659e−11 ± 8.298e−14
1.2
1
0.8
0.6
0.4
0.2
0

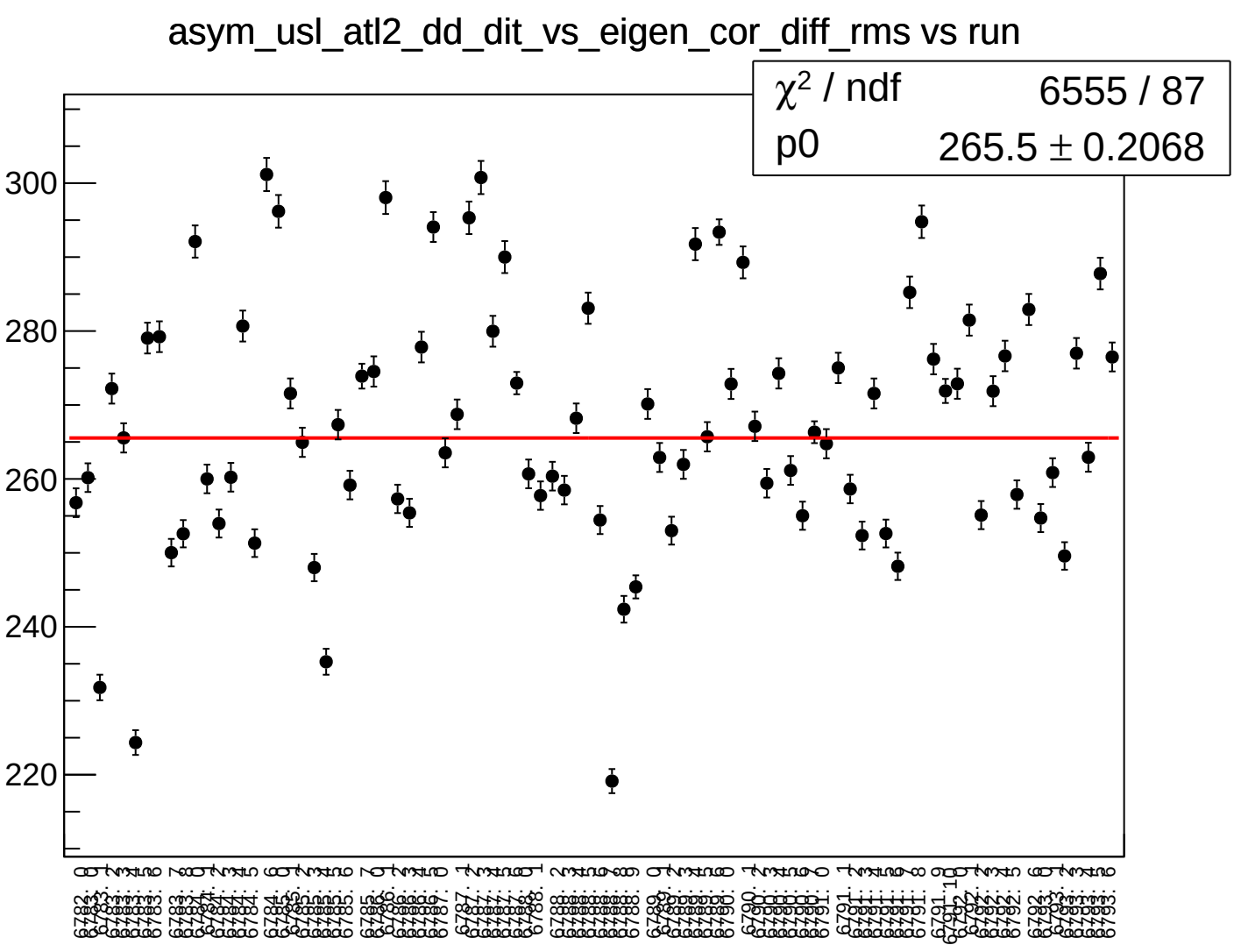

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 0.3933 ± 0.2925
pull
Entries 88
Mean 249.3
Std Dev 0

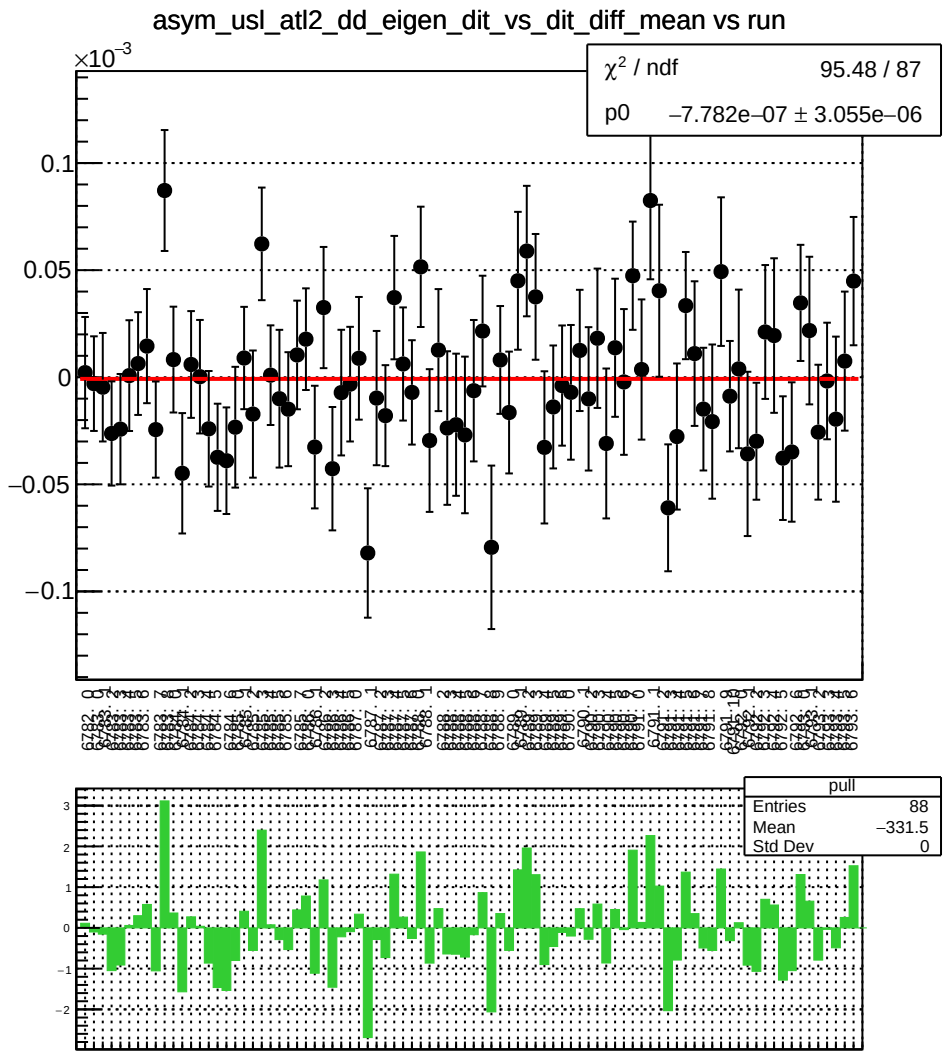

pull1D
Entries 88
Mean 0.01399
Std Dev 0.9062

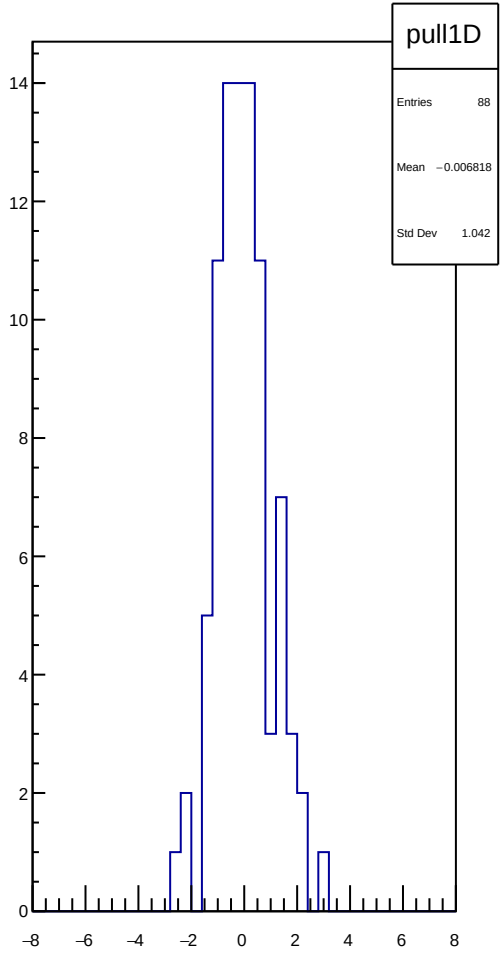

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6555 / 87
p0 265.5 ± 0.2068
300
280
260
240
220

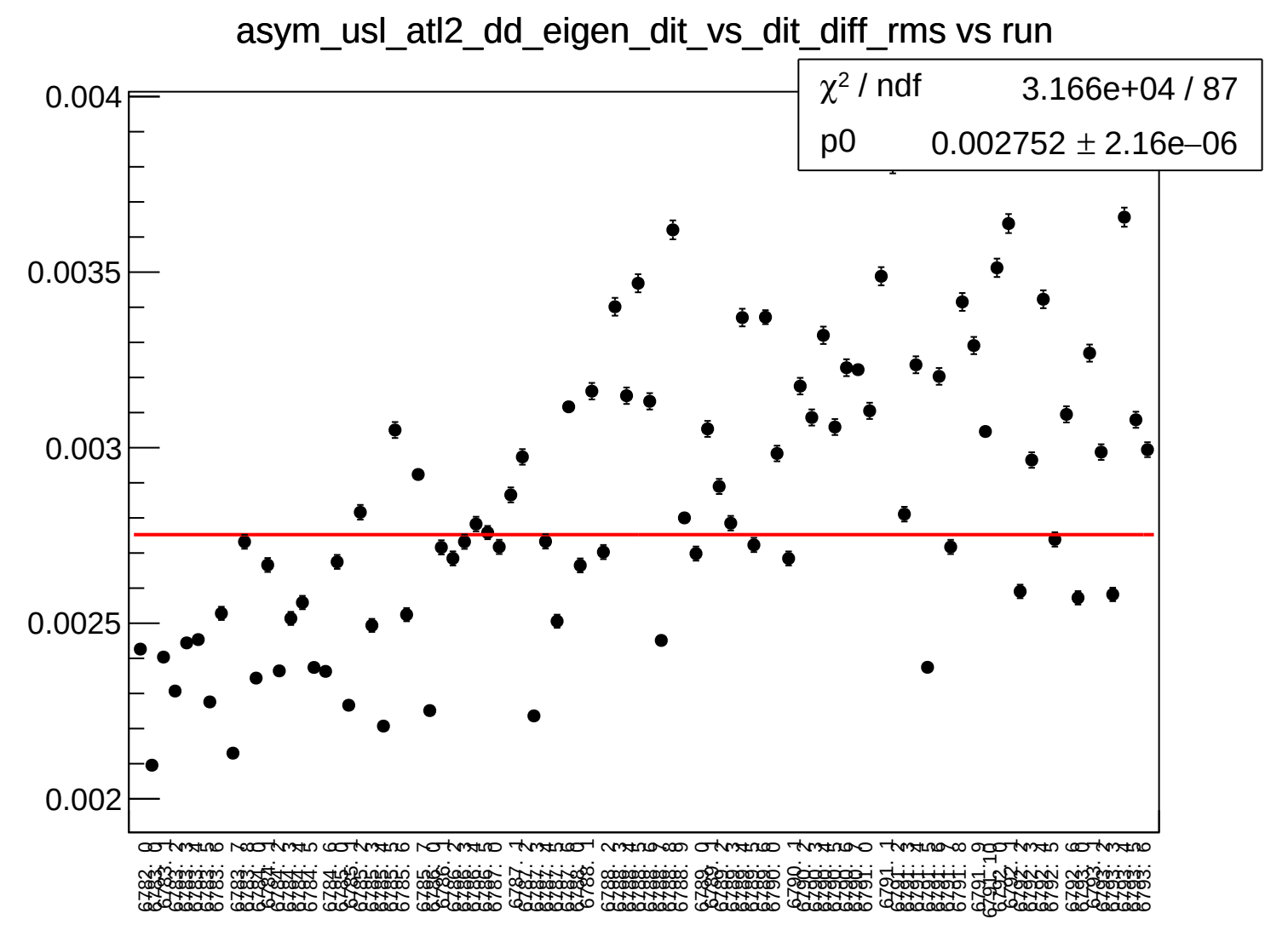

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 0.3933 ± 0.2925
pull
Entries 88
Mean 249.3
Std Dev 0

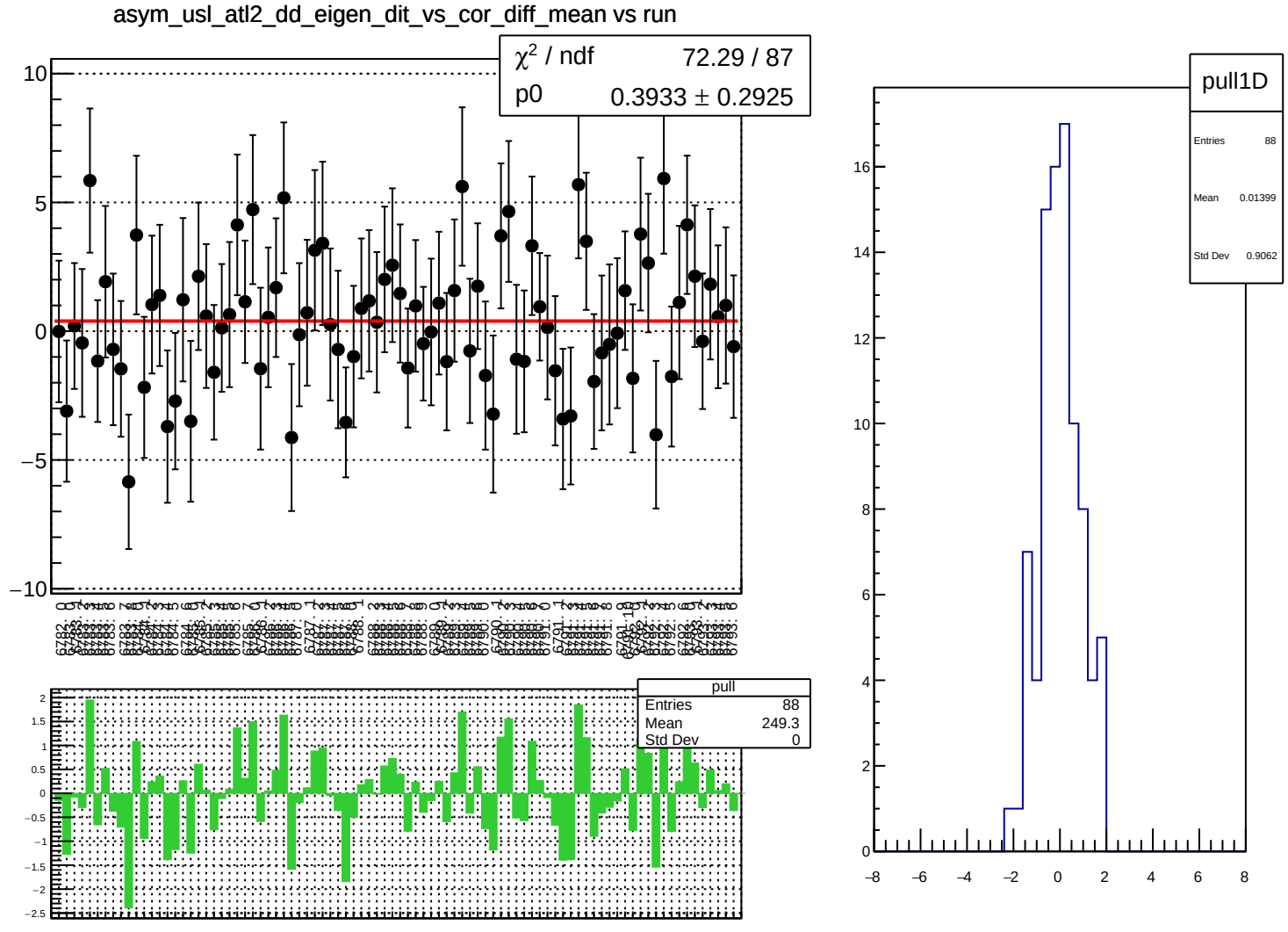

pull1D
Entries 88
Mean 0.01399
Std Dev 0.9062

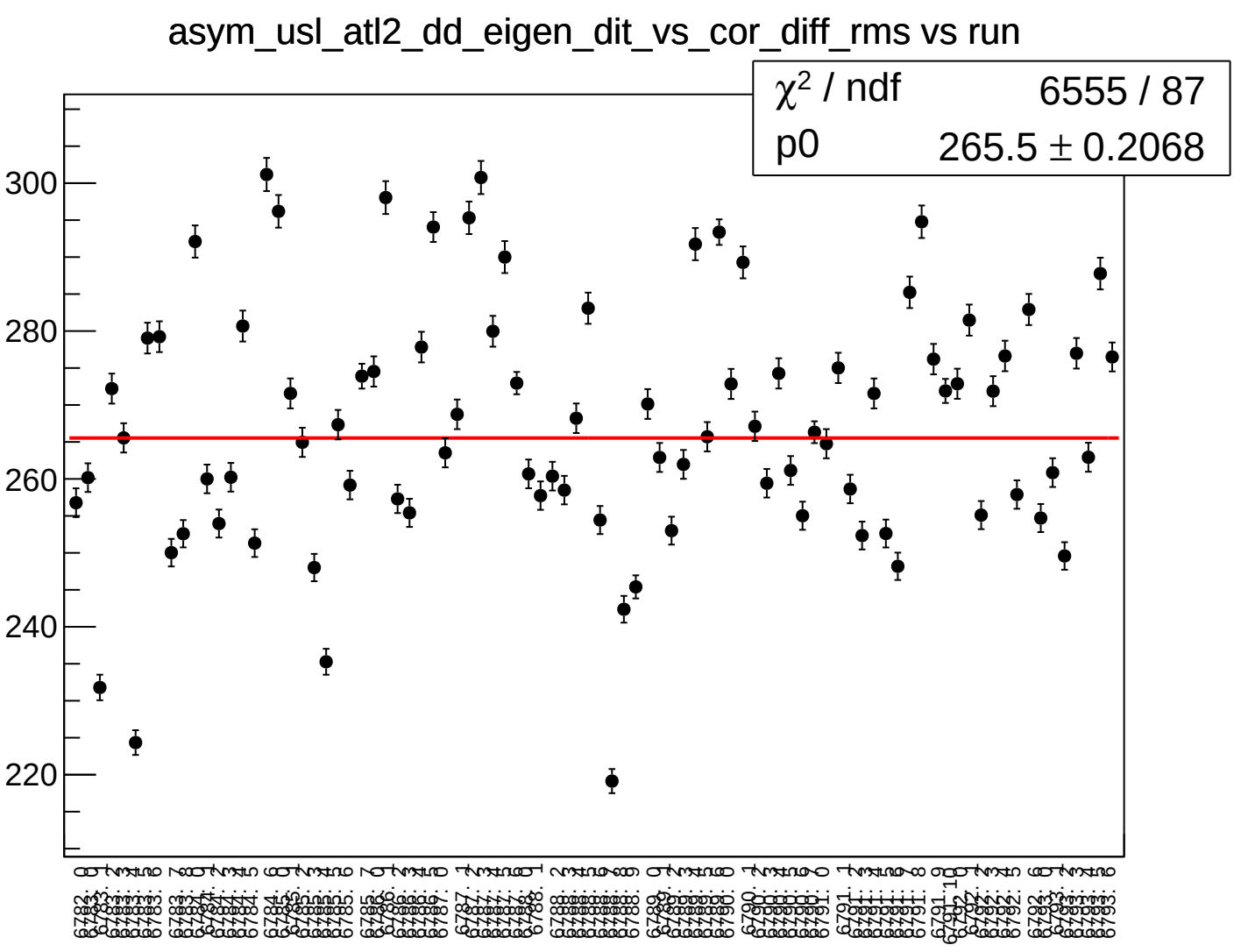

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6555 / 87
p0 265.5 ± 0.2068
300
280
260
240
220

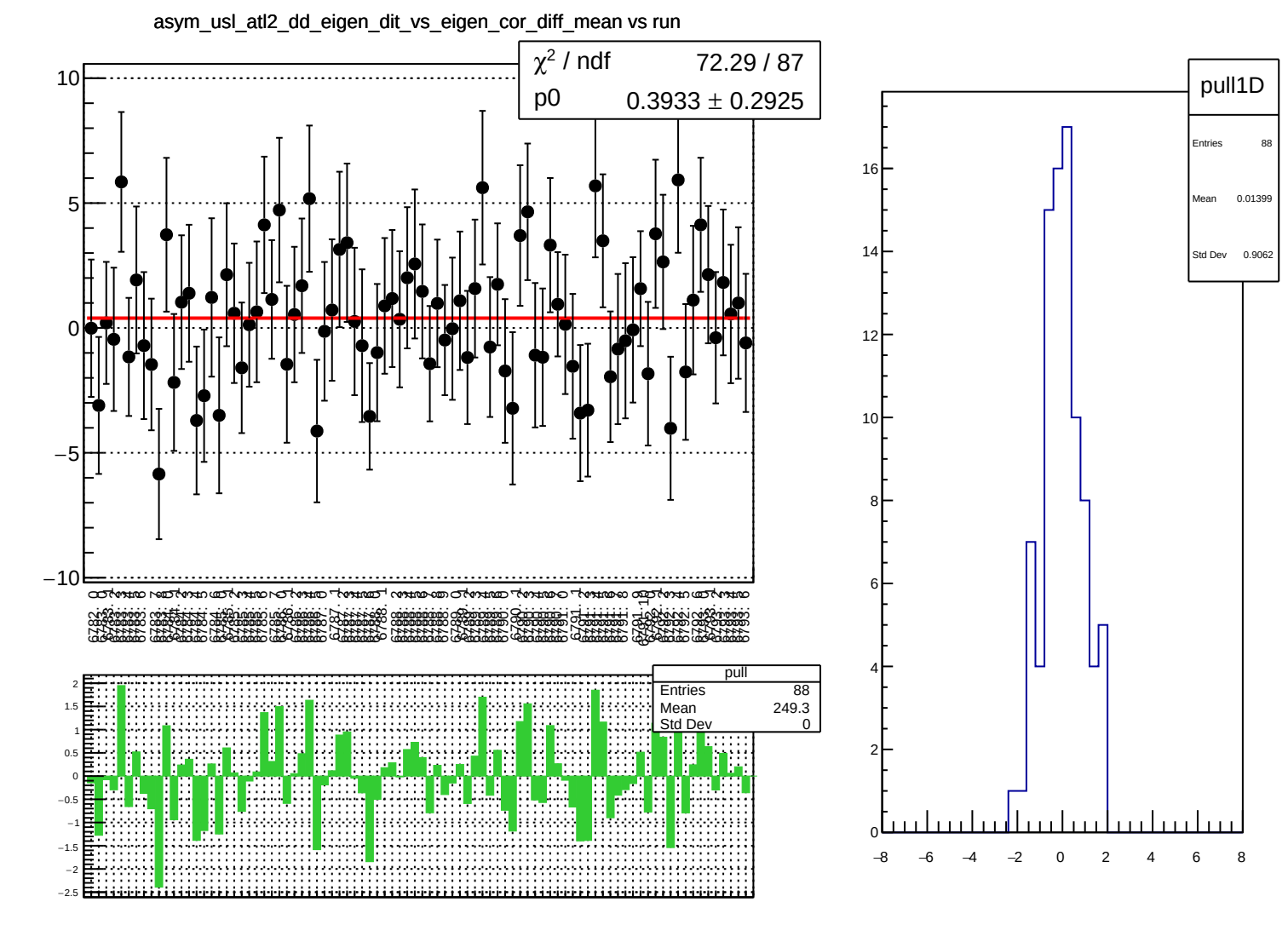

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.48 / 87
p0 −7.782e−07 ± 3.055e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −331.5
Std Dev 0
3
2
1
0
−1
−2

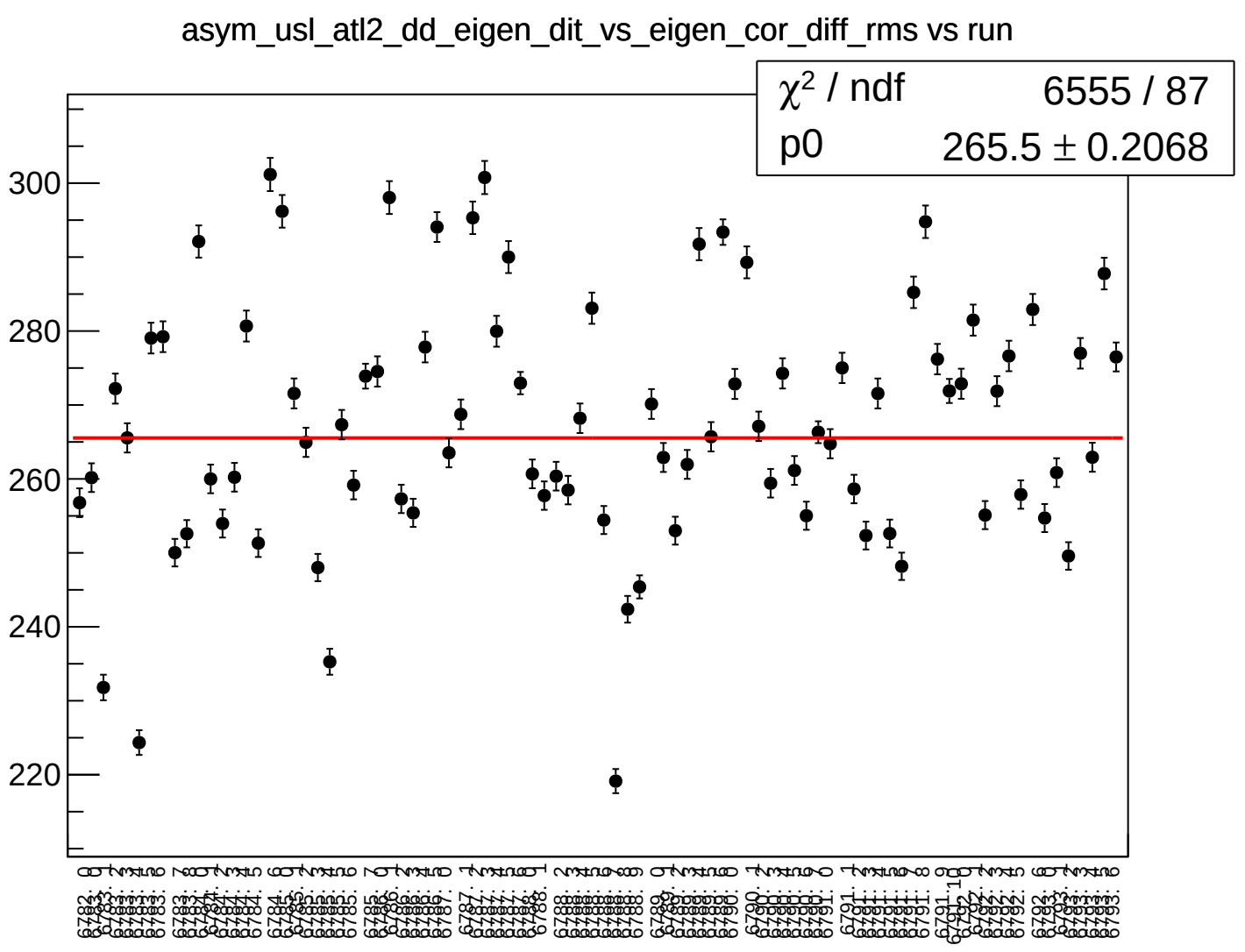

pull1D
Entries 88
Mean −0.006818
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

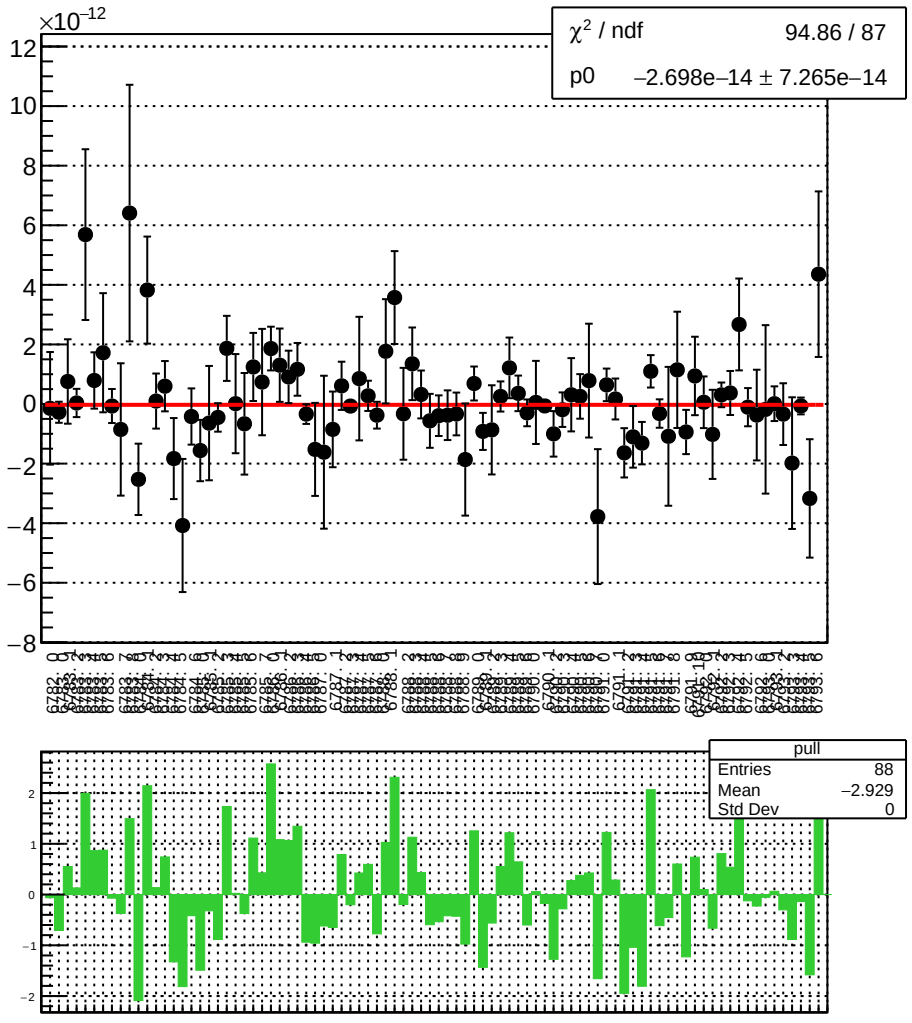

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.166e+04 / 87
p0 0.002752 ± 2.16e−06
0.004
0.0035
0.003
0.0025
0.002

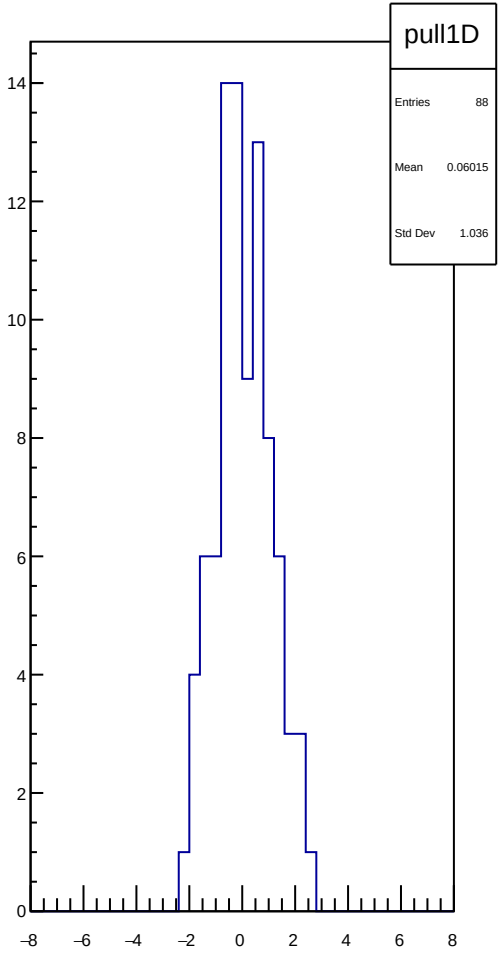

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 0.3933 ± 0.2925
pull
Entries 88
Mean 249.3
Std Dev 0
pull1D
Entries 88
Mean 0.01399
Std Dev 0.9062

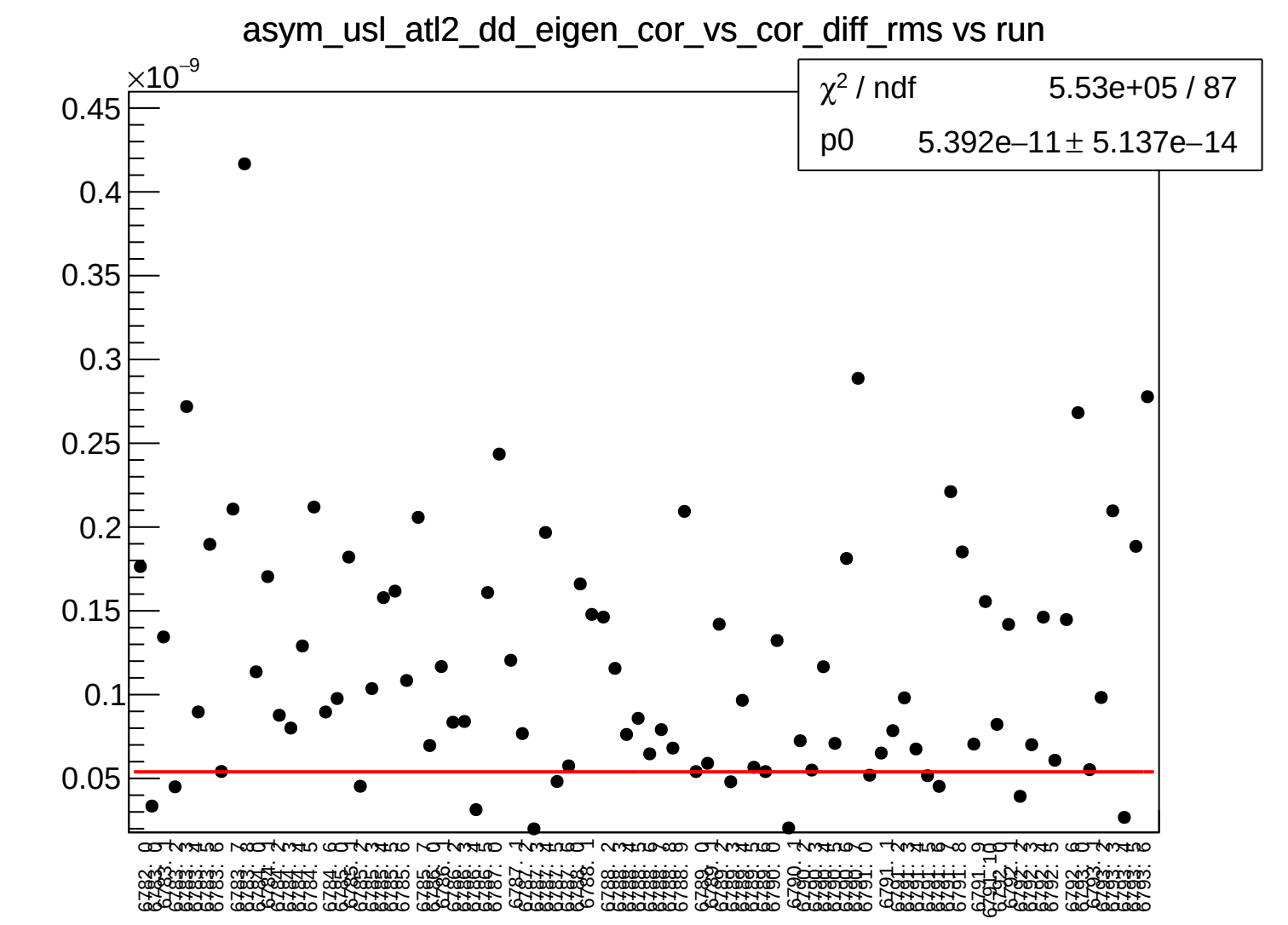

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6555 / 87
p0 265.5 ± 0.2068
300
280
260
240
220

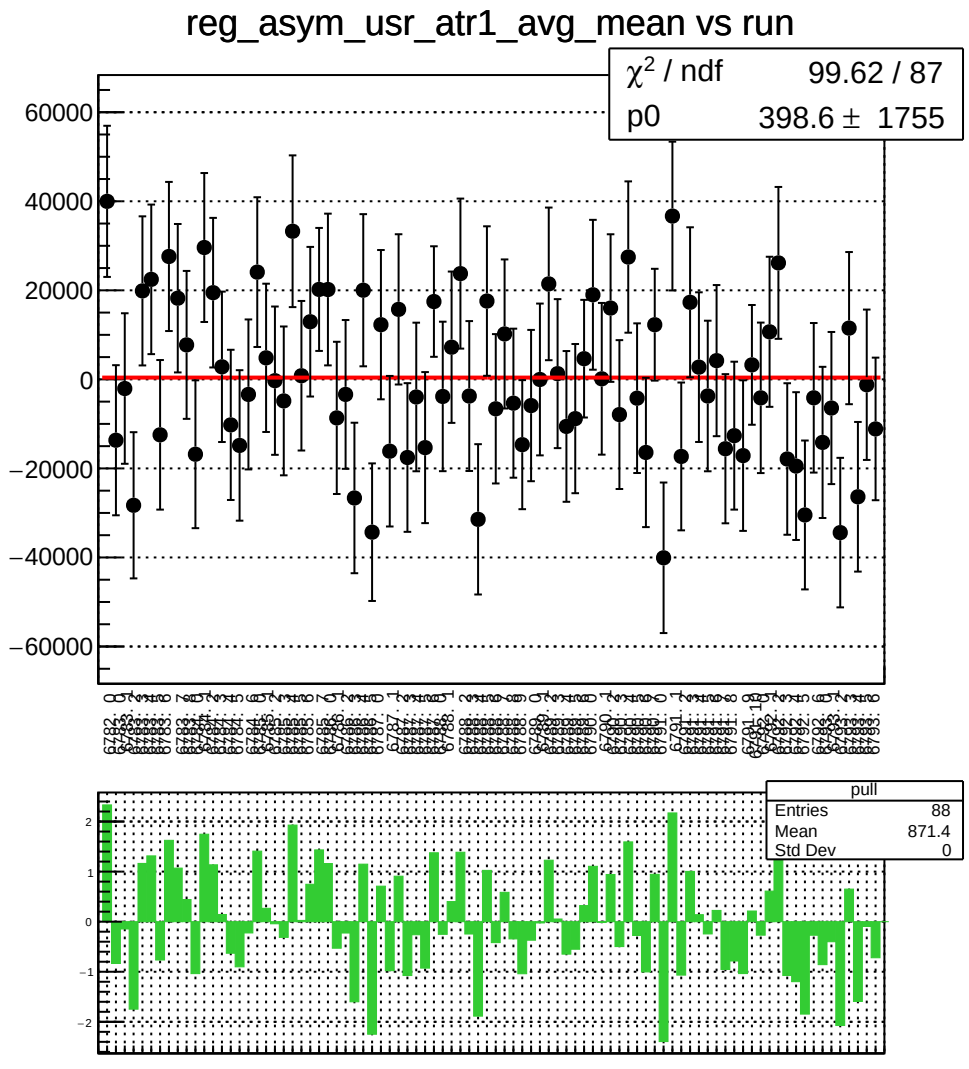

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 0.3933 ± 0.2925
pull
Entries 88
Mean 249.3
Std Dev 0
pull1D
Entries 88
Mean 0.01399
Std Dev 0.9062

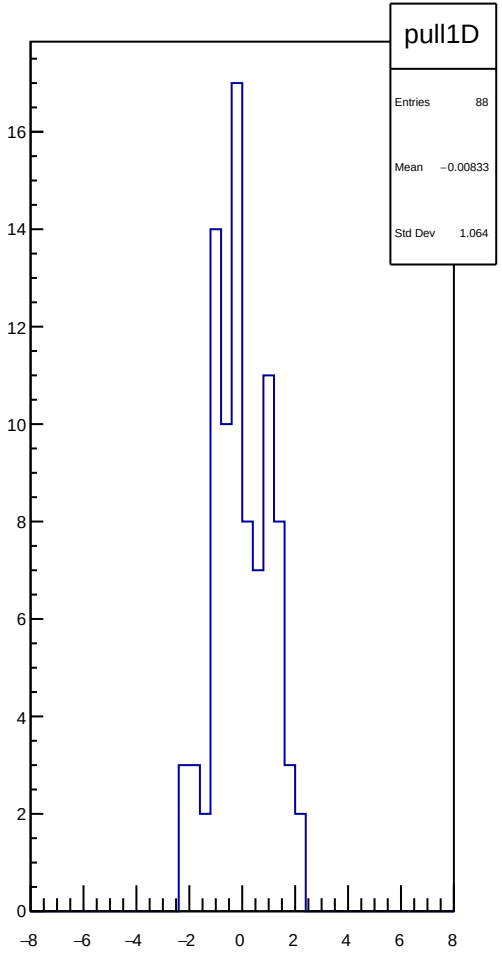

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6555 / 87
p0 265.5 ± 0.2068
300
280
260
240
220

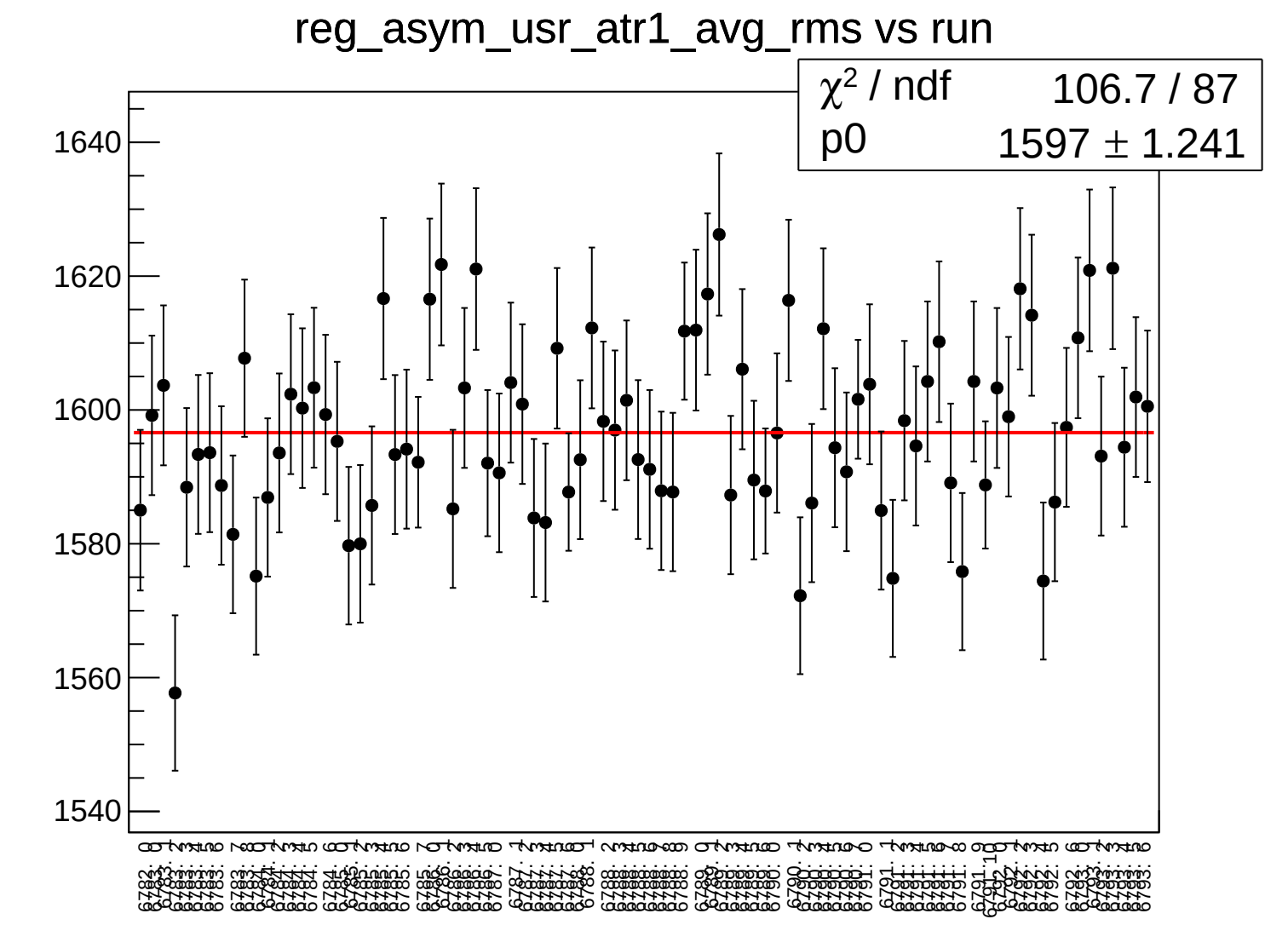

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.86 / 87
p0 −2.698e−14 ± 7.265e−14
pull
Entries 88
Mean −2.929
Std Dev 0

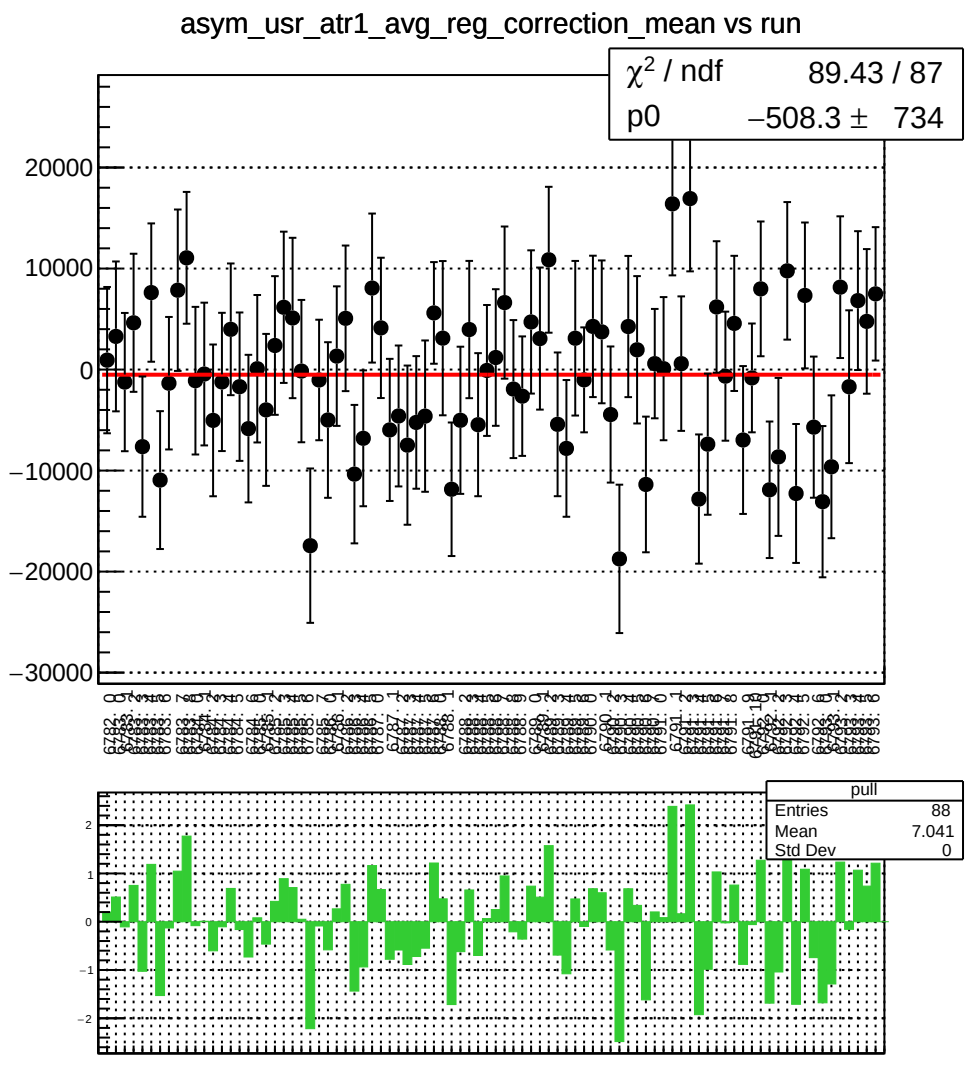

pull1D
Entries 88
Mean 0.06015
Std Dev 1.036

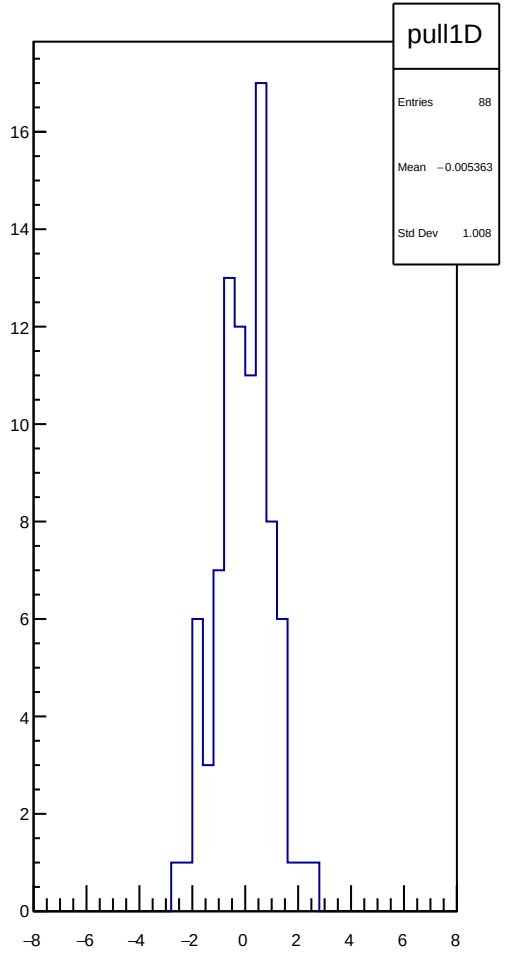

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.53e+05 / 87
p0 5.392e−11 ± 5.137e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

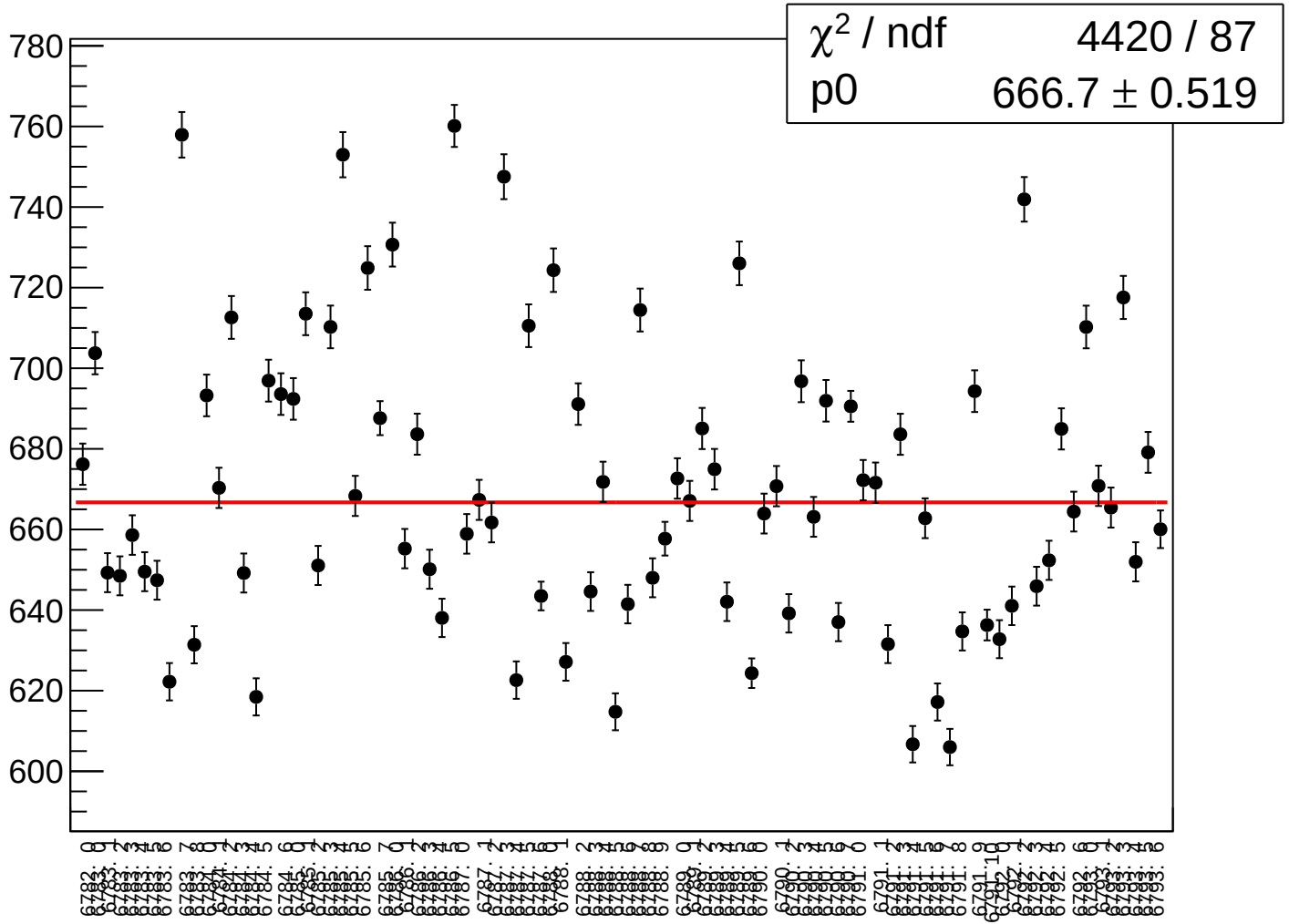

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.62 / 87
p0 398.6 ± 1755
pull
Entries 88
Mean 871.4
Std Dev 0

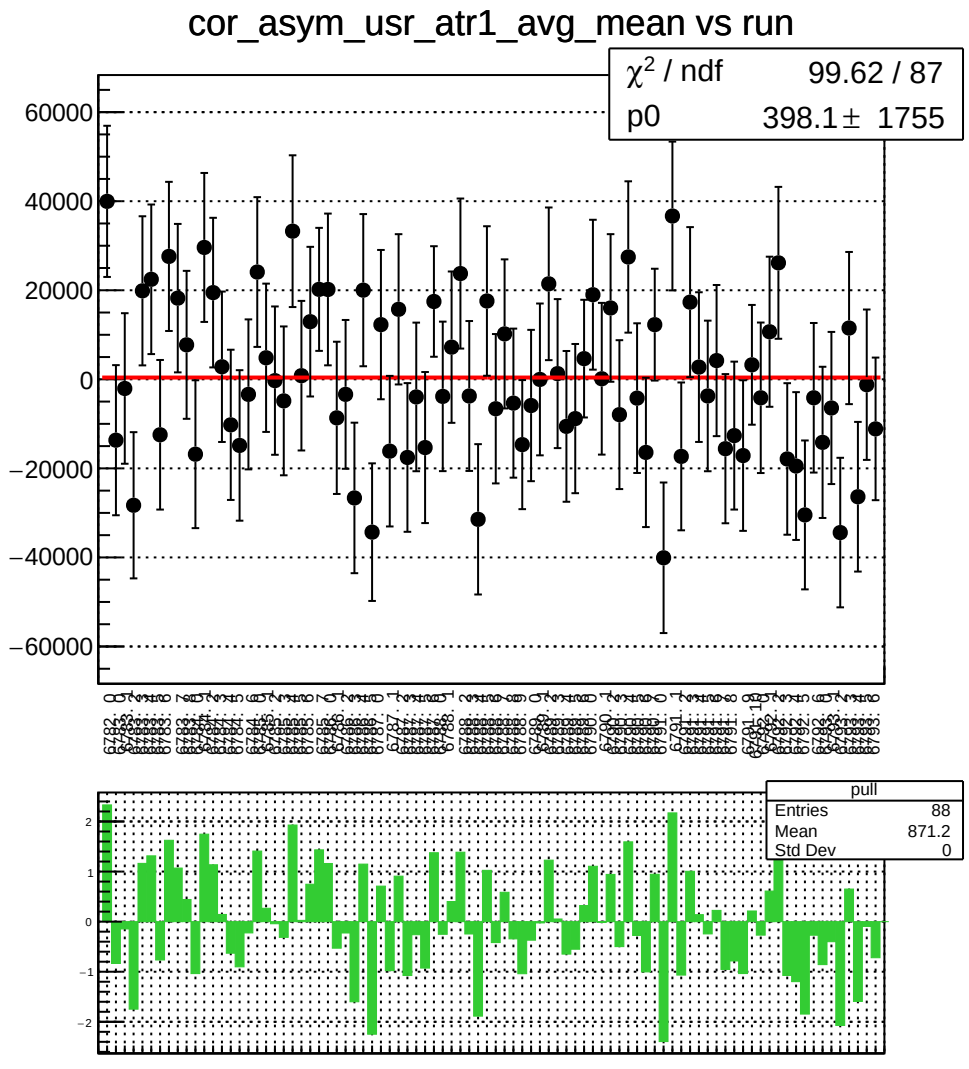

pull1D
Entries 88
Mean −0.00833
Std Dev 1.064

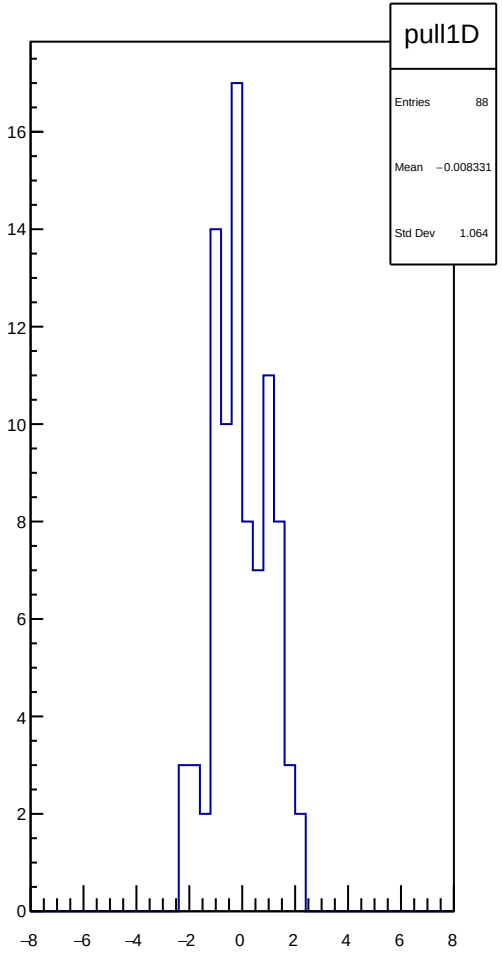

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 106.7 / 87
p0 1597 ± 1.241
1640
1620
1600
1580
1560
1540

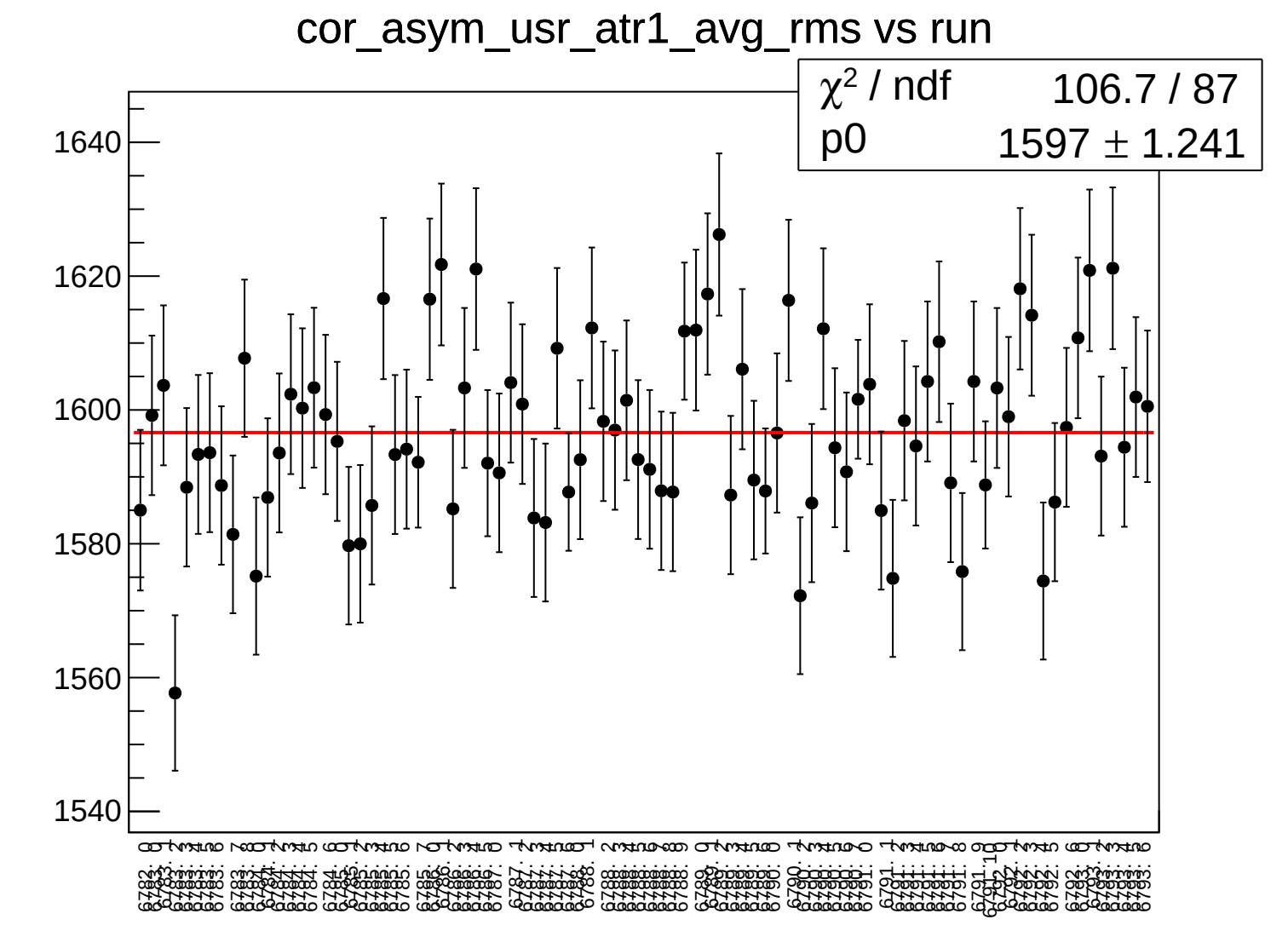

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 89.43 / 87
p0 −508.3 ± 734
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 7.041
Std Dev 0
2
1
0
−1
−2

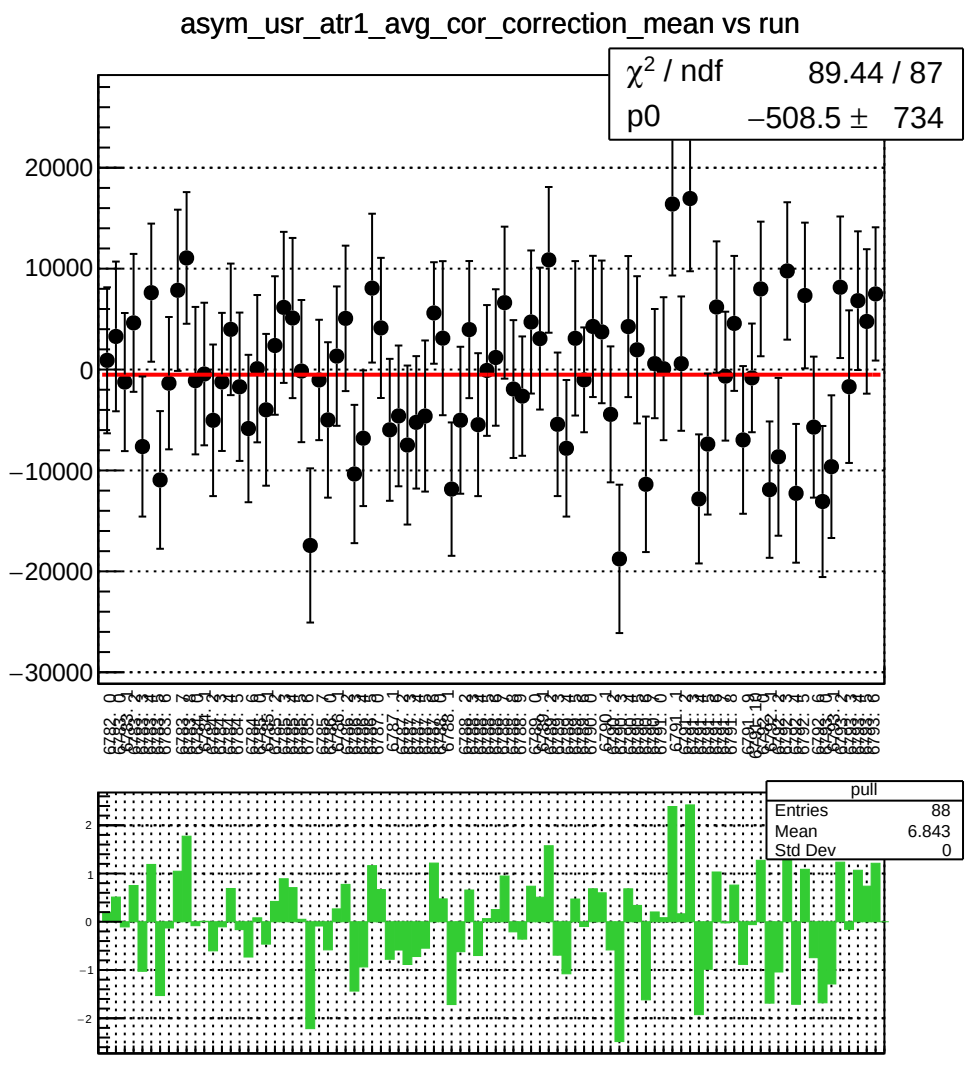

pull1D
Entries 88
Mean −0.005363
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

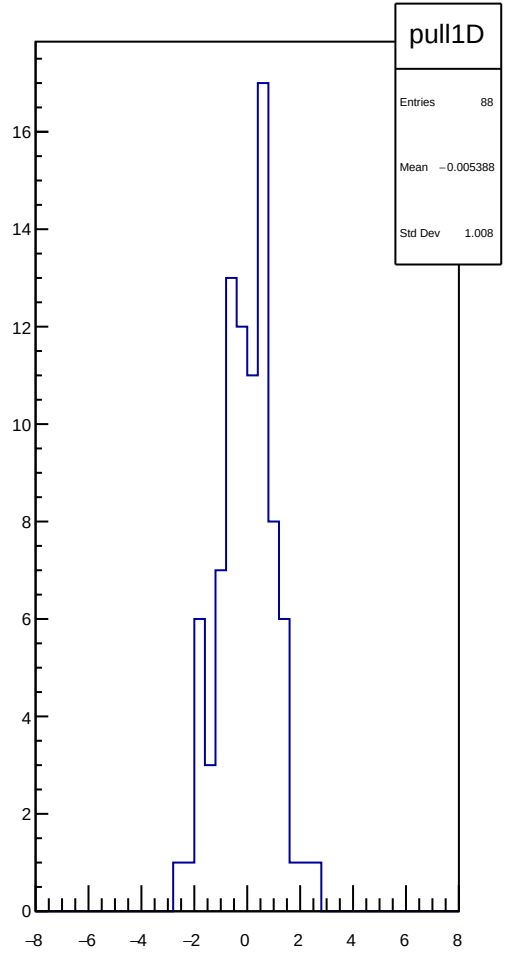

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4420 / 87
p0 666.7 ± 0.519
780
760
740
720
700
680
660
640
620
600

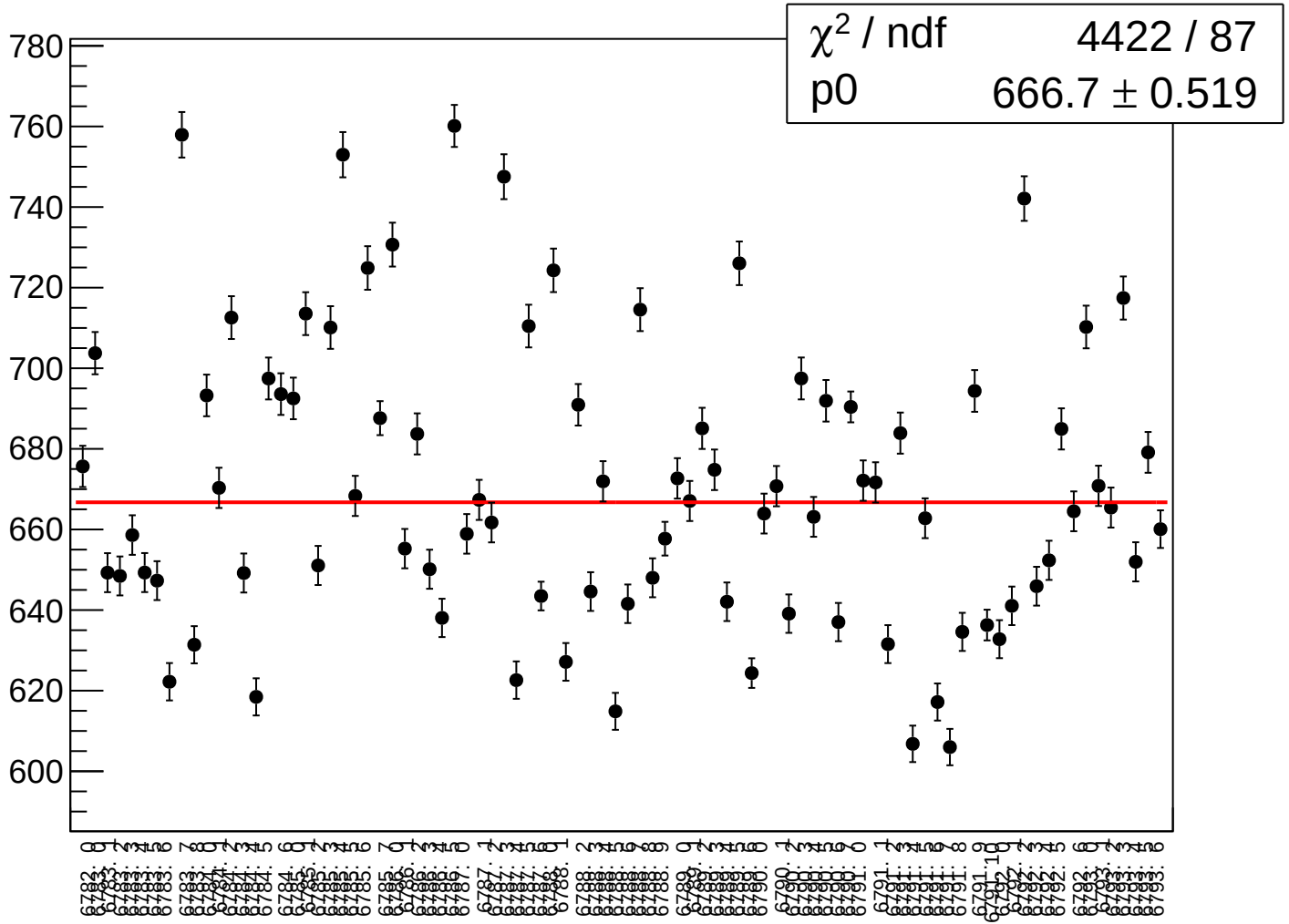

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.62 / 87
p0 398.1± 1755
pull
Entries 88
Mean 871.2
Std Dev 0

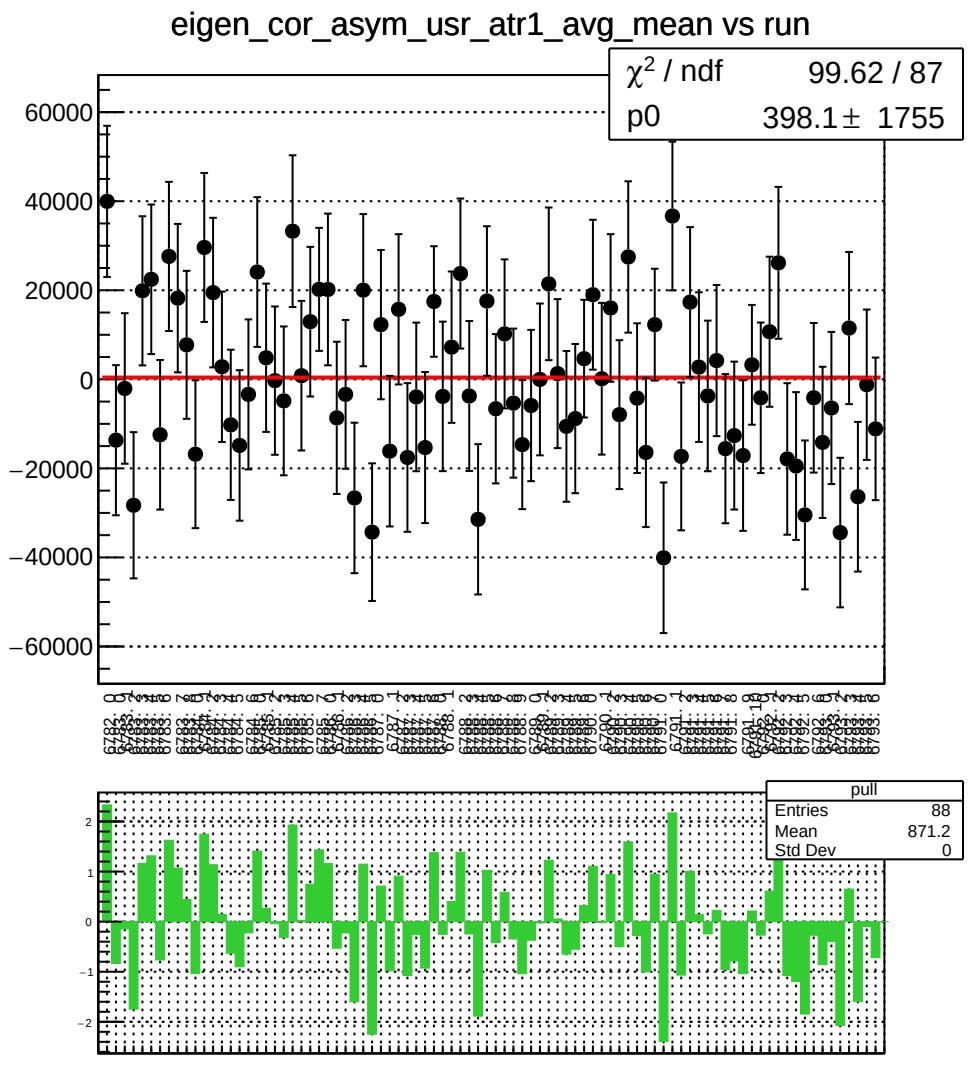

pull1D
Entries 88
Mean −0.008331
Std Dev 1.064

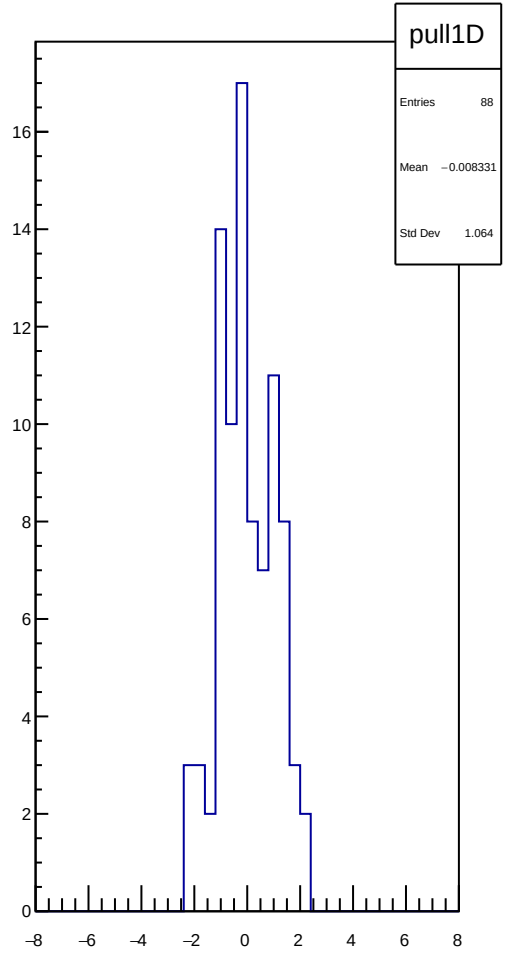

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 106.7 / 87
p0 1597 ± 1.241
1640
1620
1600
1580
1560
1540

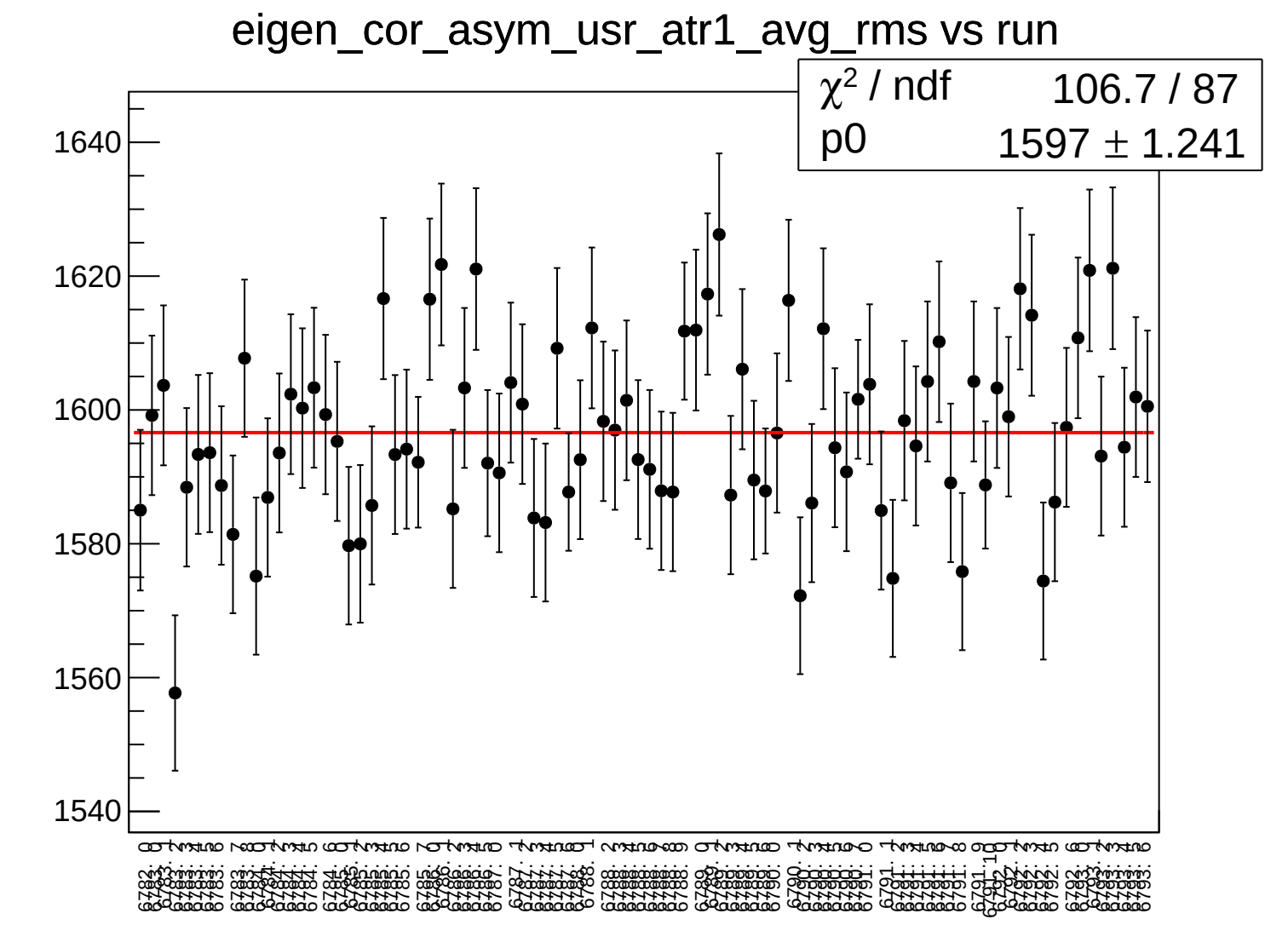

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 89.44 / 87
p0 −508.5 ± 734
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 6.843
Std Dev 0
2
1
0
−1
−2

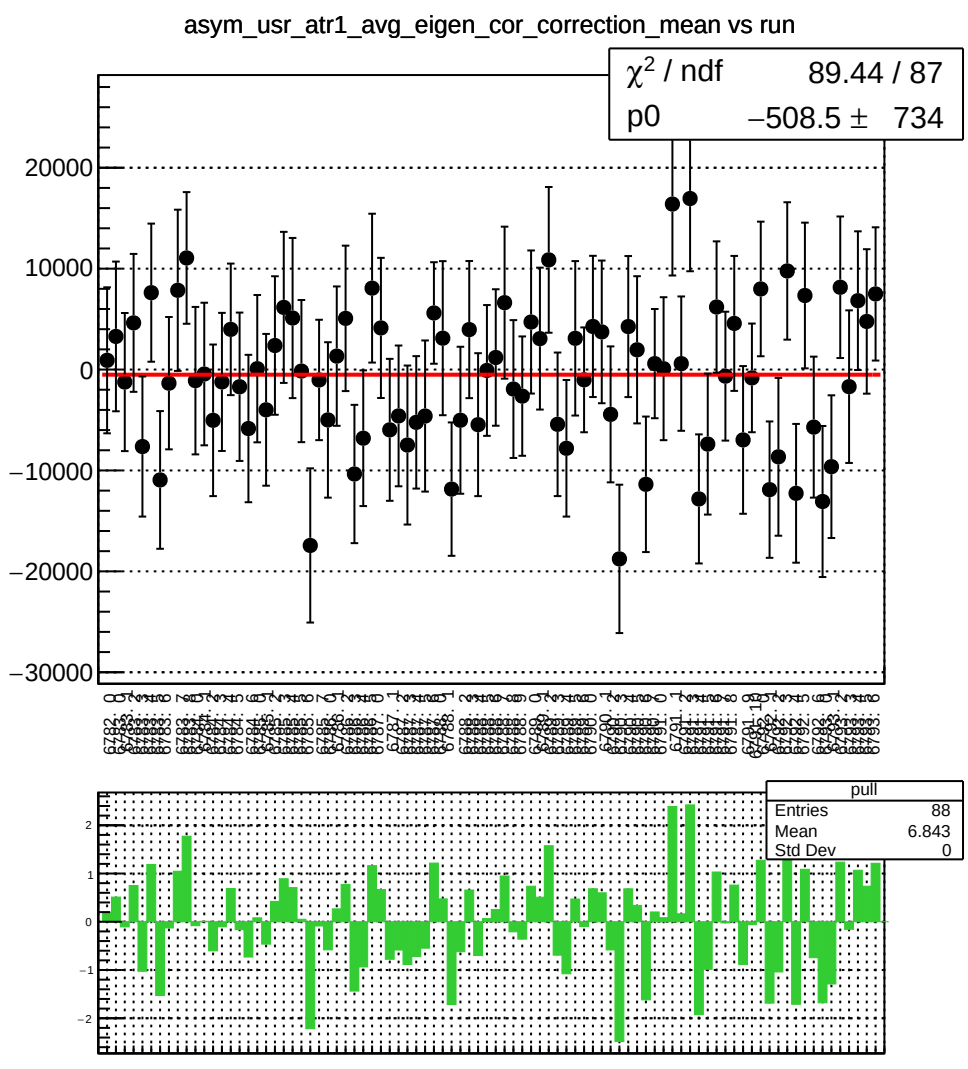

pull1D
Entries 88
Mean −0.005388
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

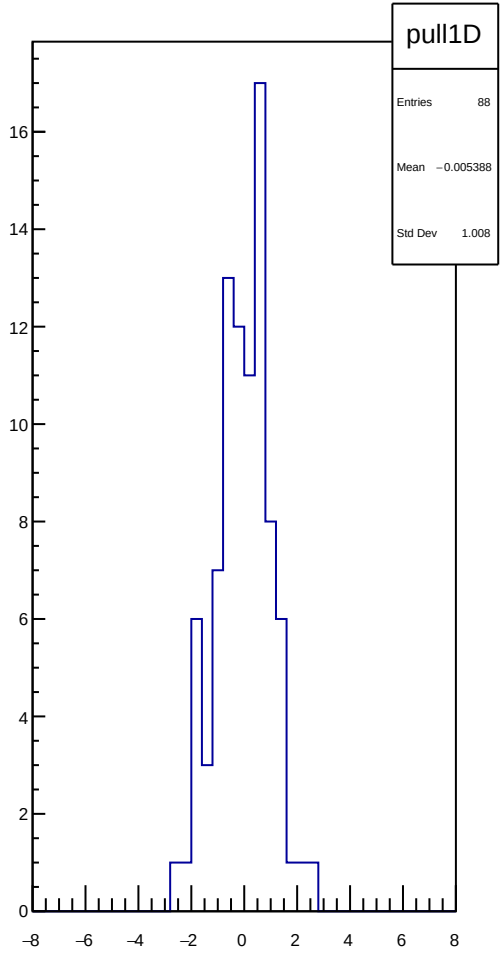

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 4422 / 87
p0 666.7 ± 0.519
780
760
740
720
700
680
660
640
620
600

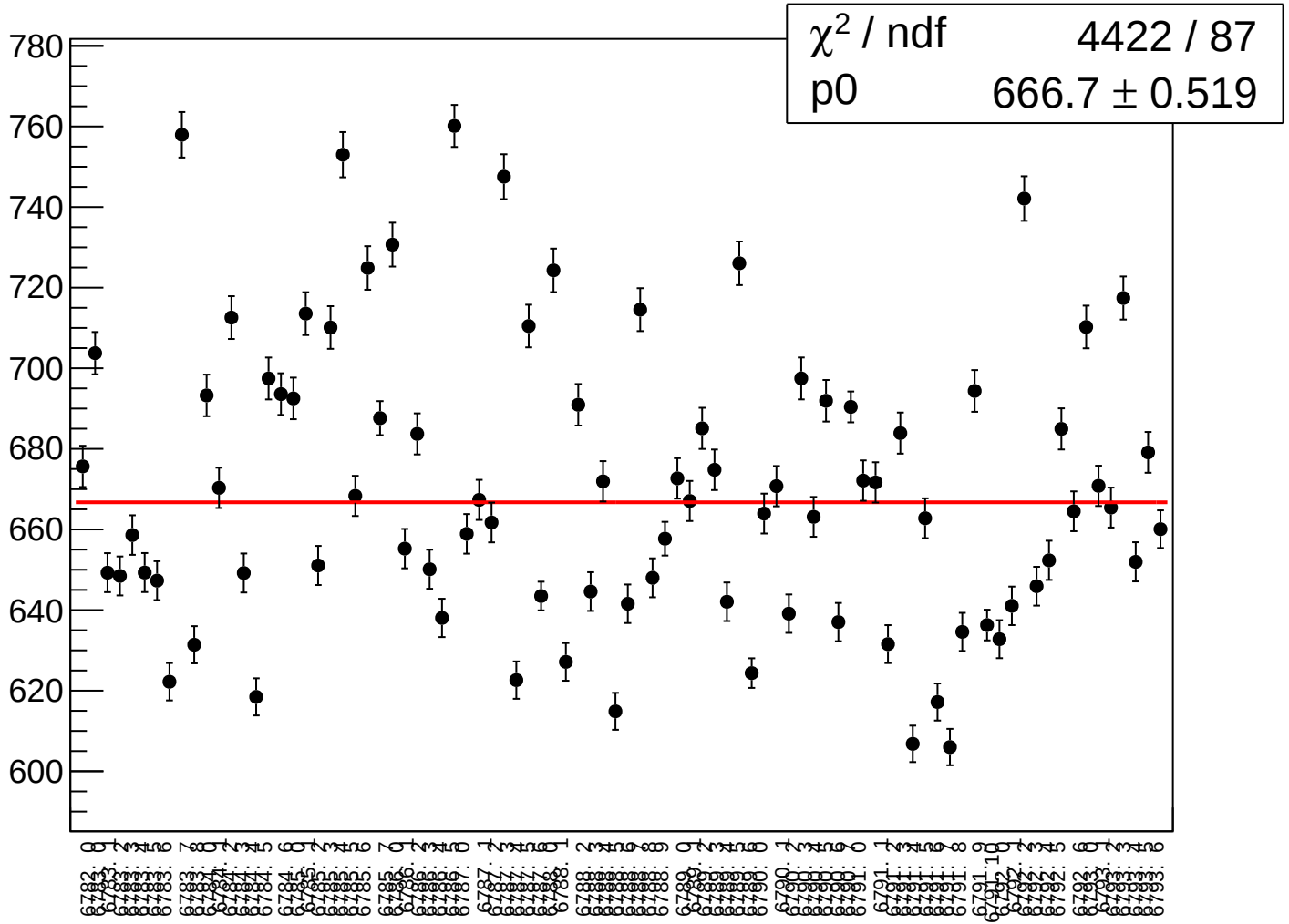

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.62 / 87
p0 398.1 ± 1755
pull
Entries 88
Mean 871.2
Std Dev 0

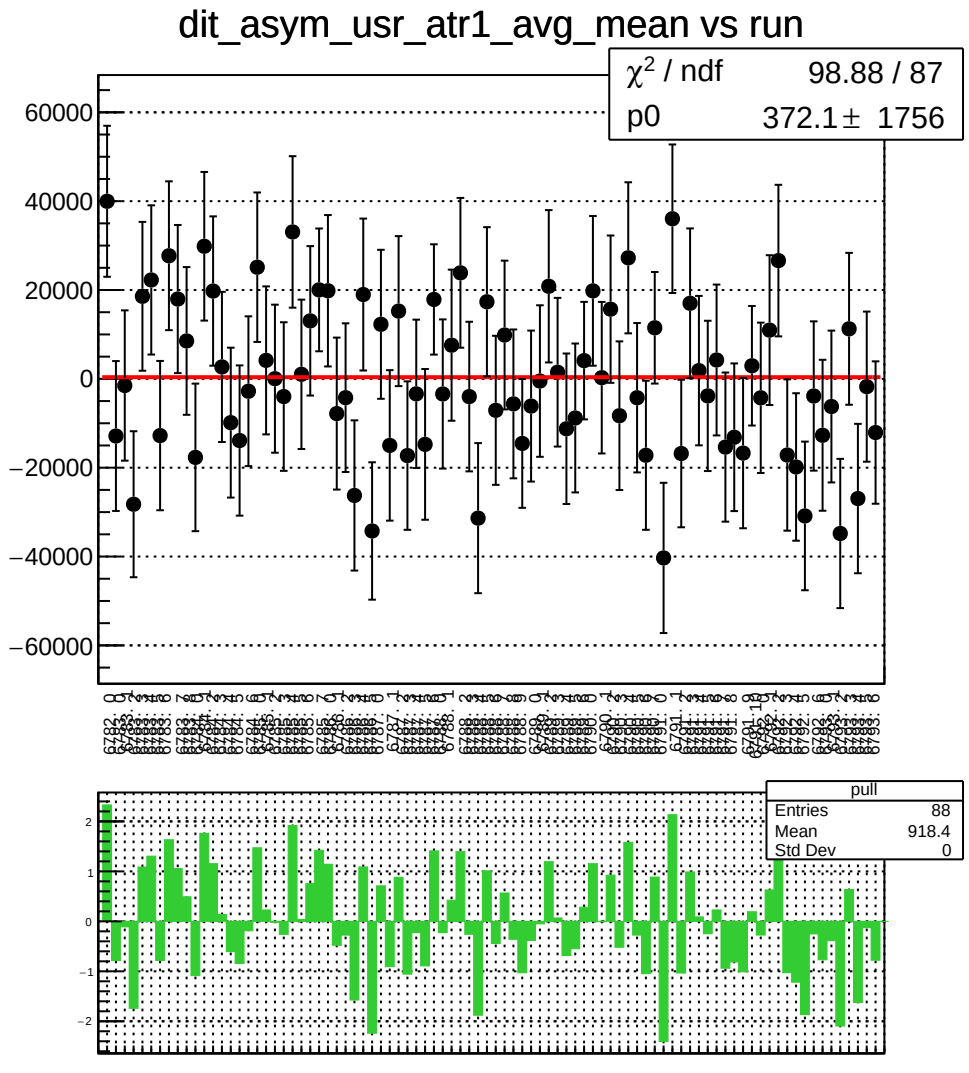

pull1D
Entries 88
Mean −0.008331
Std Dev 1.064

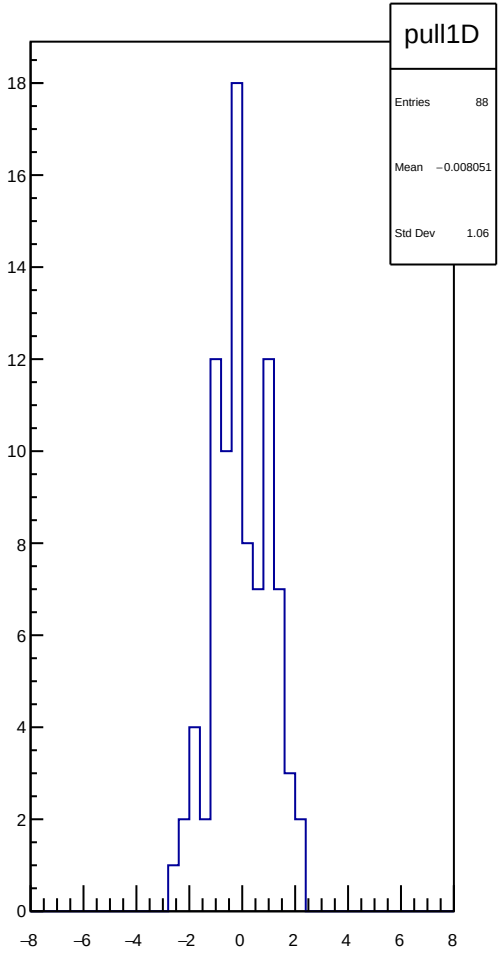

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 106.7 / 87
p0 1597 ± 1.241
1640
1620
1600
1580
1560
1540

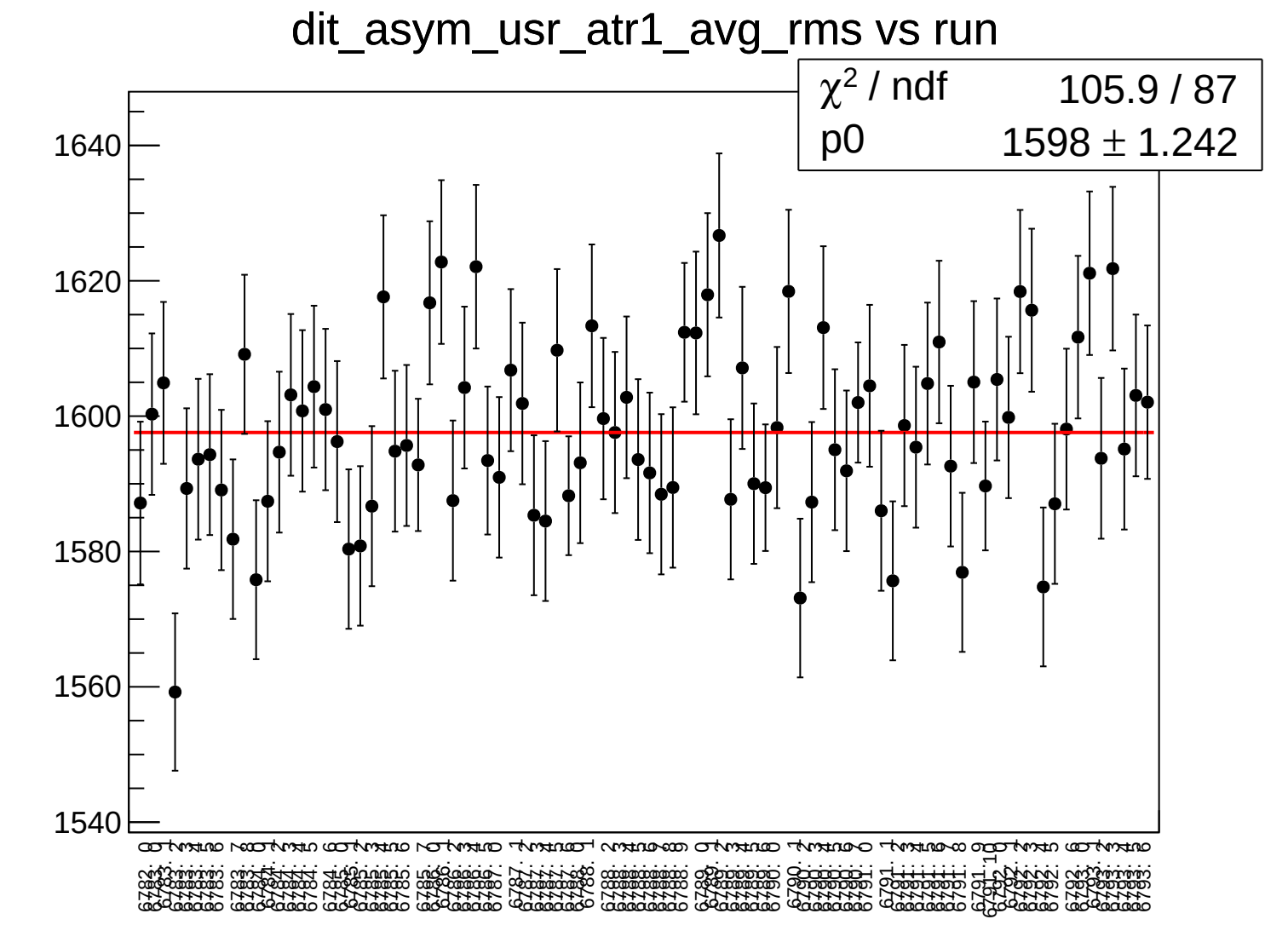

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.44 / 87
p0 −508.5 ± 734
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 6.843
Std Dev 0
2
1
0
−1
−2

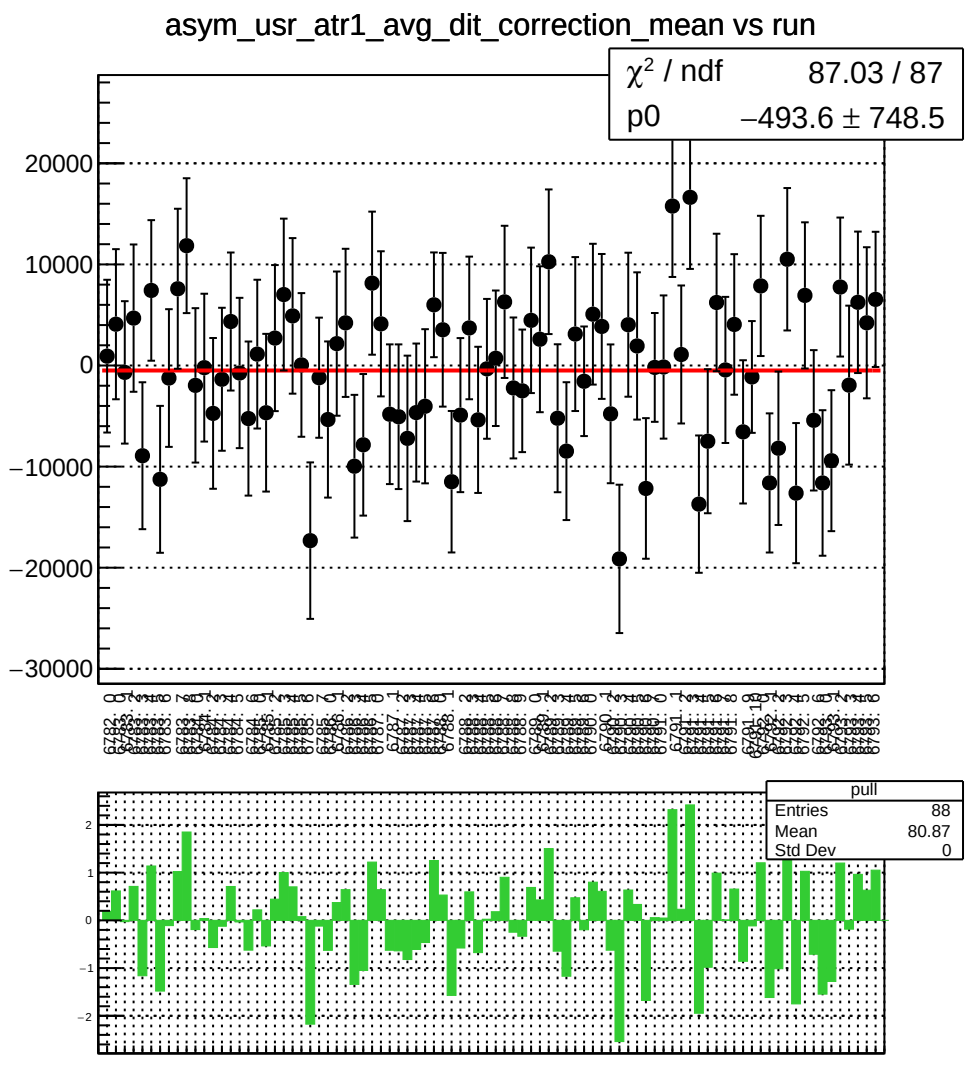

pull1D
Entries 88
Mean −0.005388
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

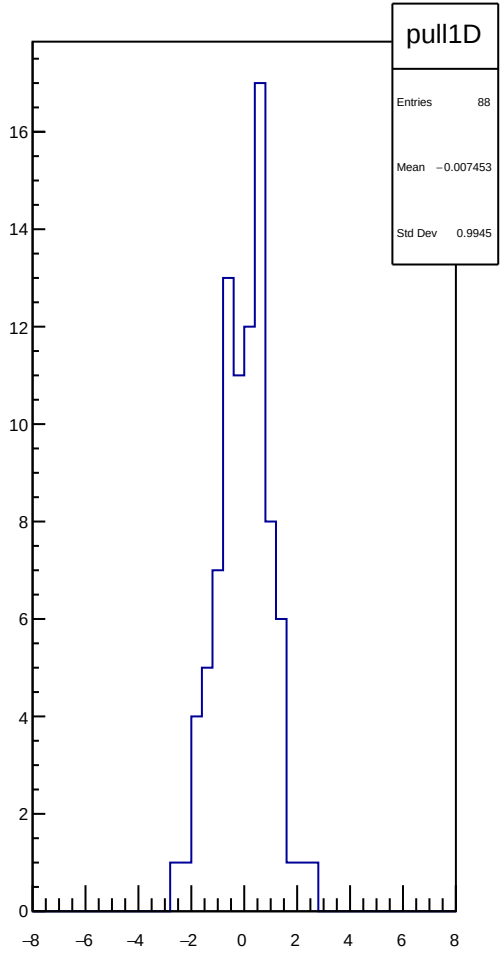

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4422 / 87
p0 666.7 ± 0.519
780
760
740
720
700
680
660
640
620
600

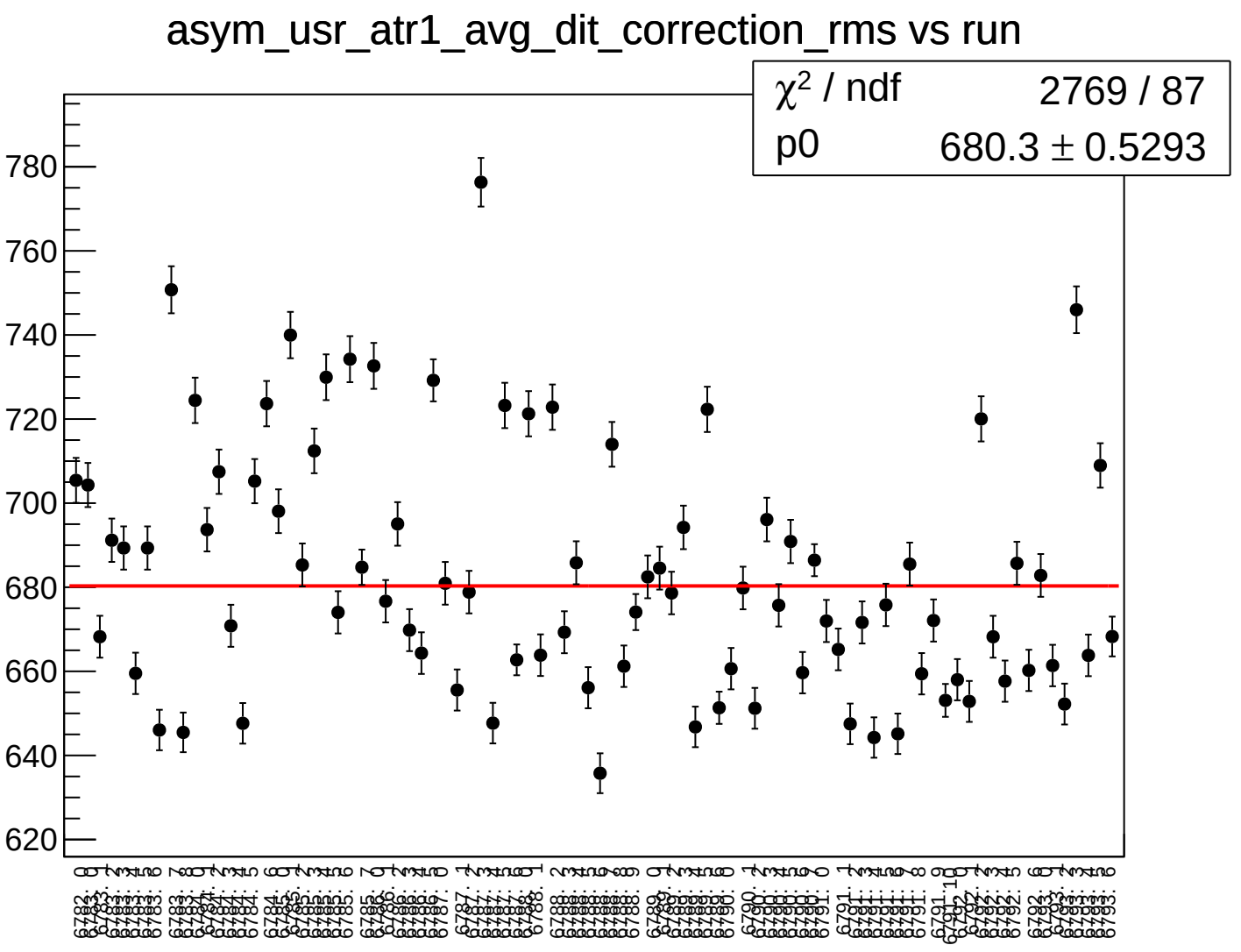

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 98.88 / 87
p0 372.1± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 918.4
Std Dev 0
2
1
0
−1
−2

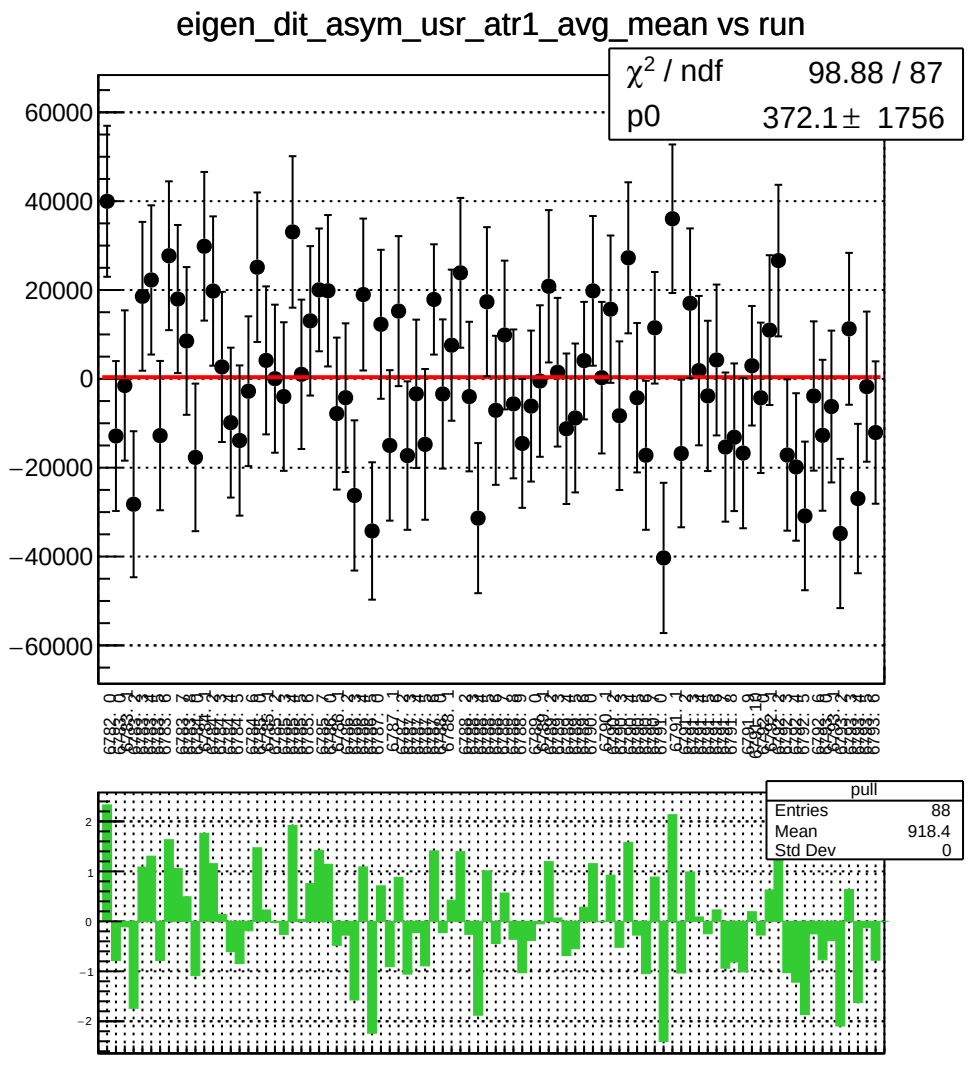

pull1D
Entries 88
Mean −0.008051
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

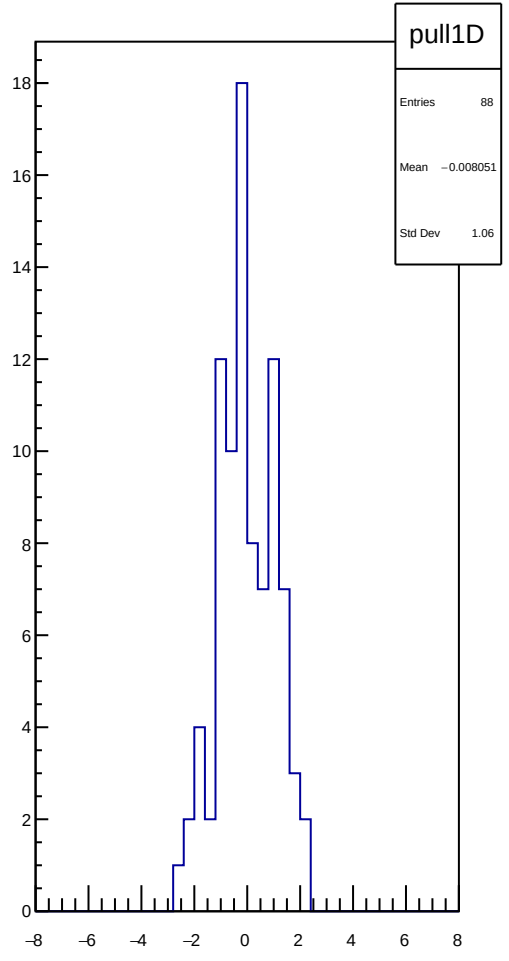

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 105.9 / 87
p0 1598 ± 1.242
1640
1620
1600
1580
1560
1540

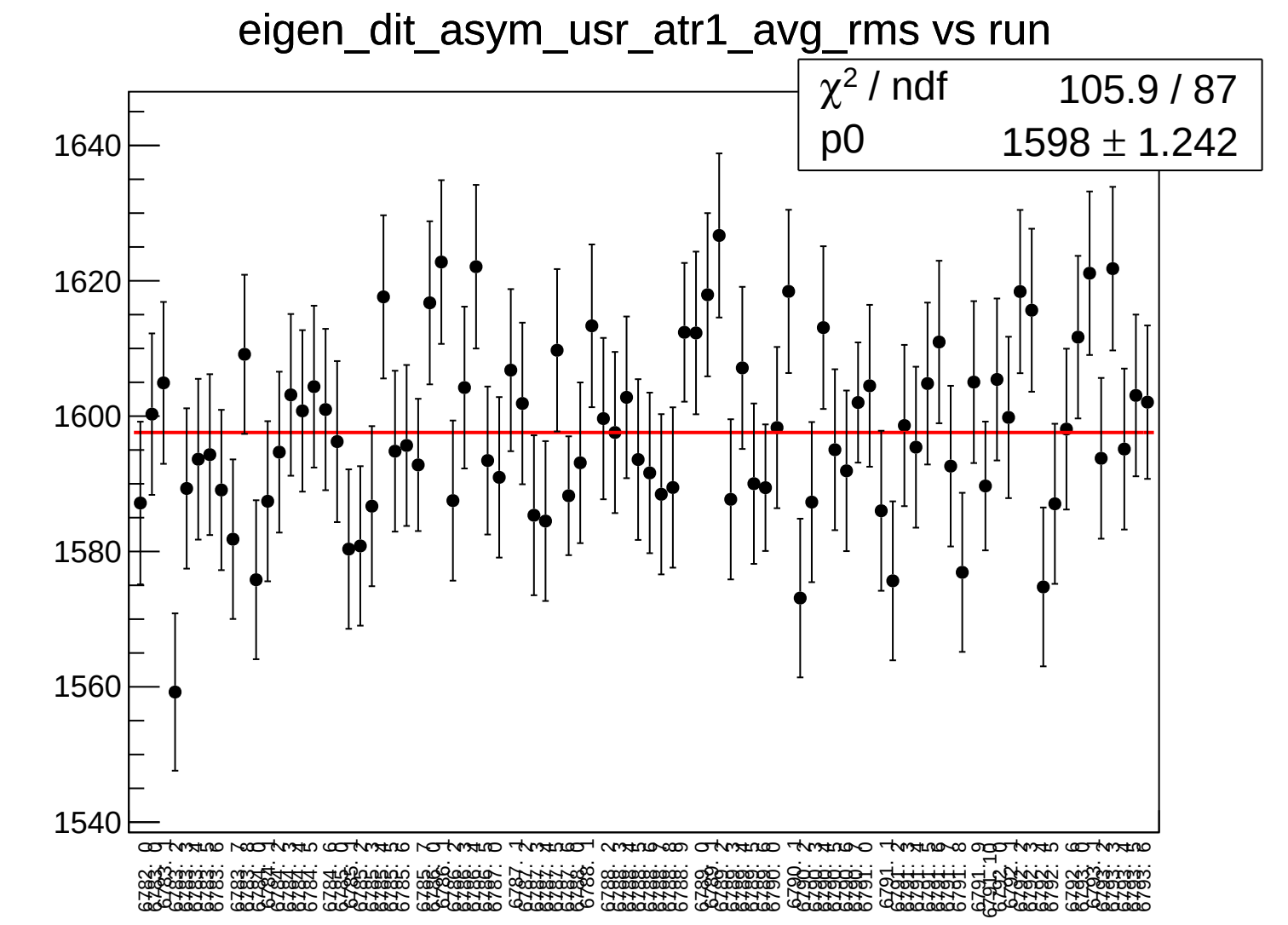

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 87.03 / 87
p0 −493.6 ± 748.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 80.87
Std Dev 0
2
1
0
−1
−2

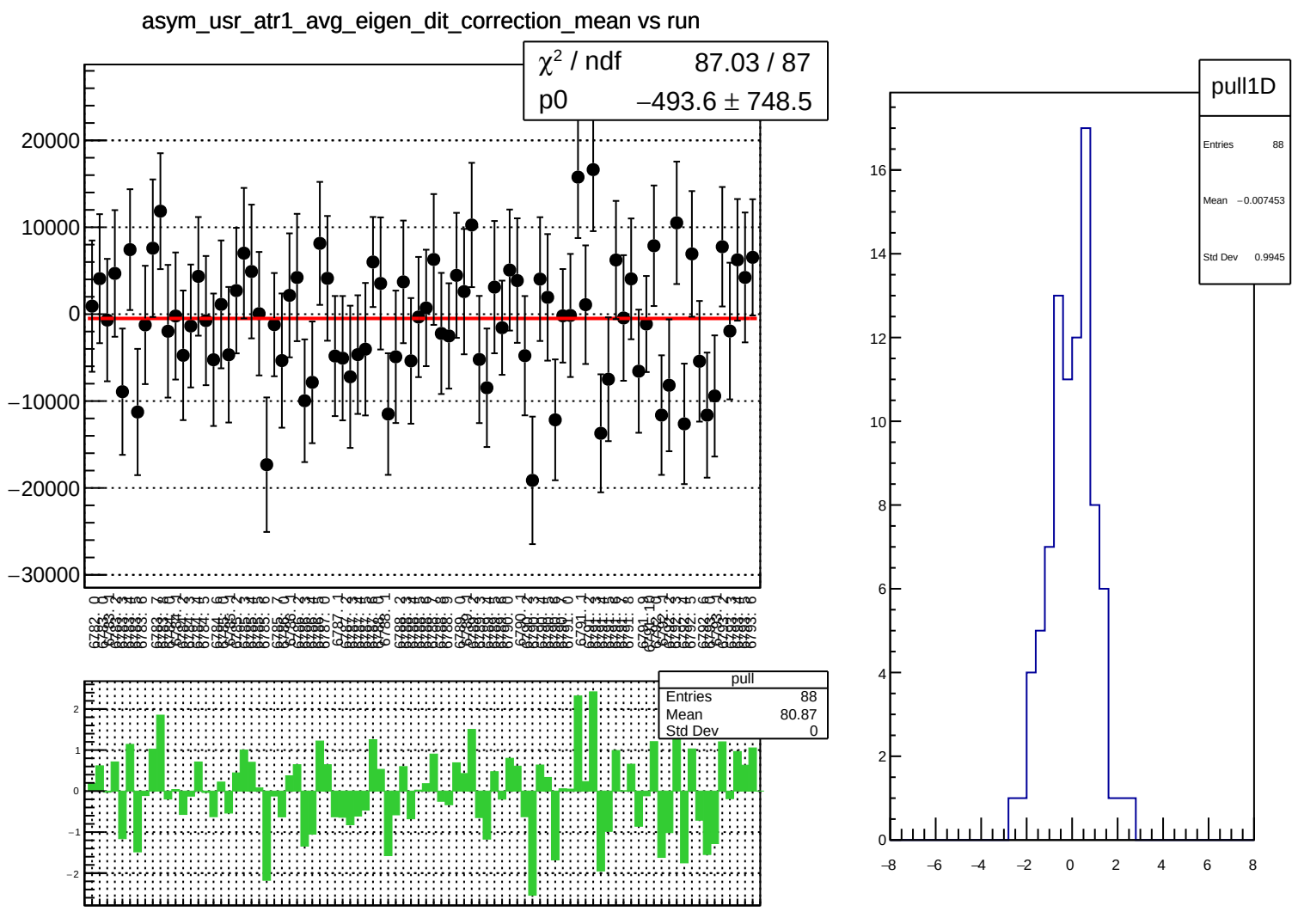

pull1D
Entries 88
Mean −0.007453
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

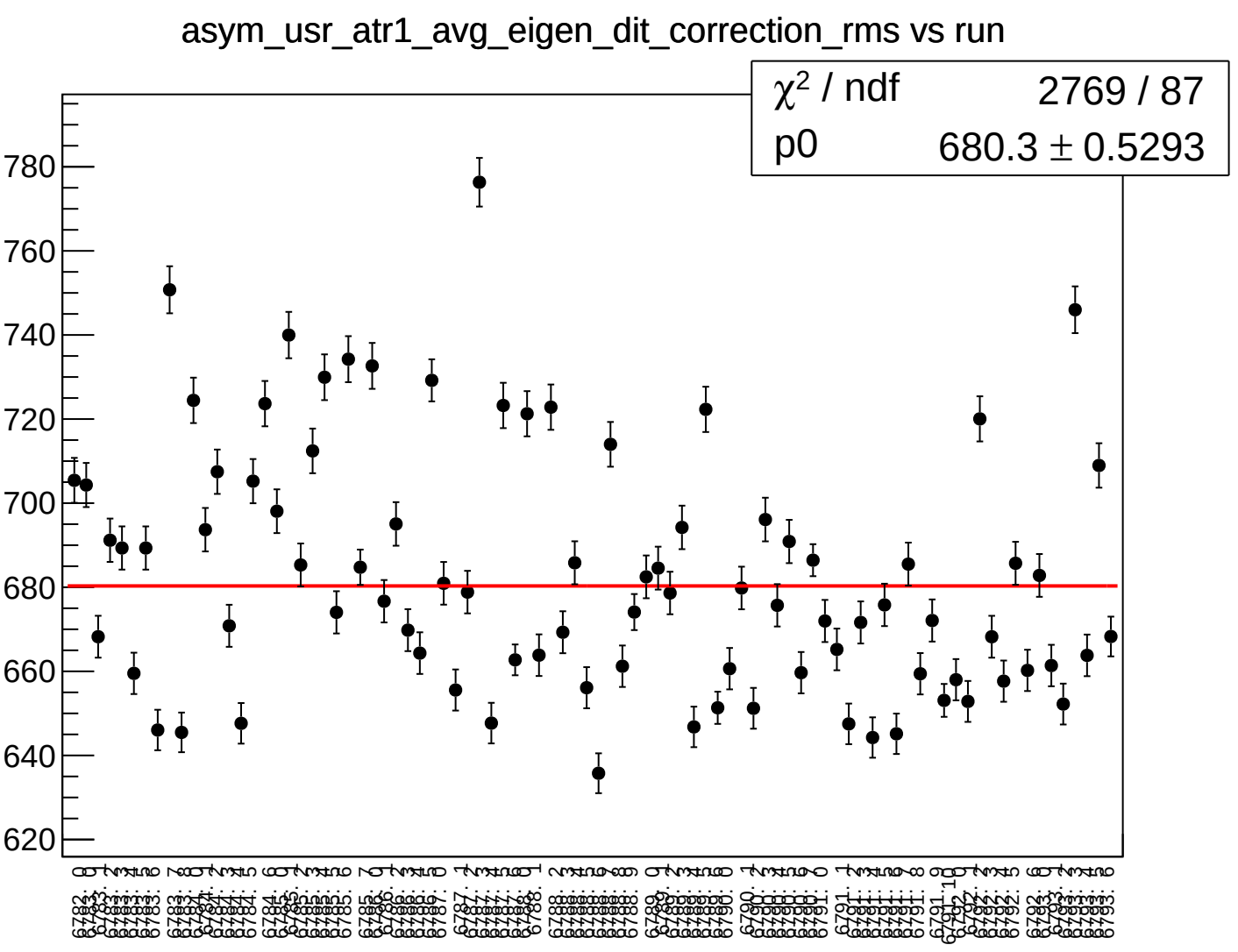

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2769 / 87
p0 680.3 ± 0.5293
780
760
740
720
700
680
660
640
620

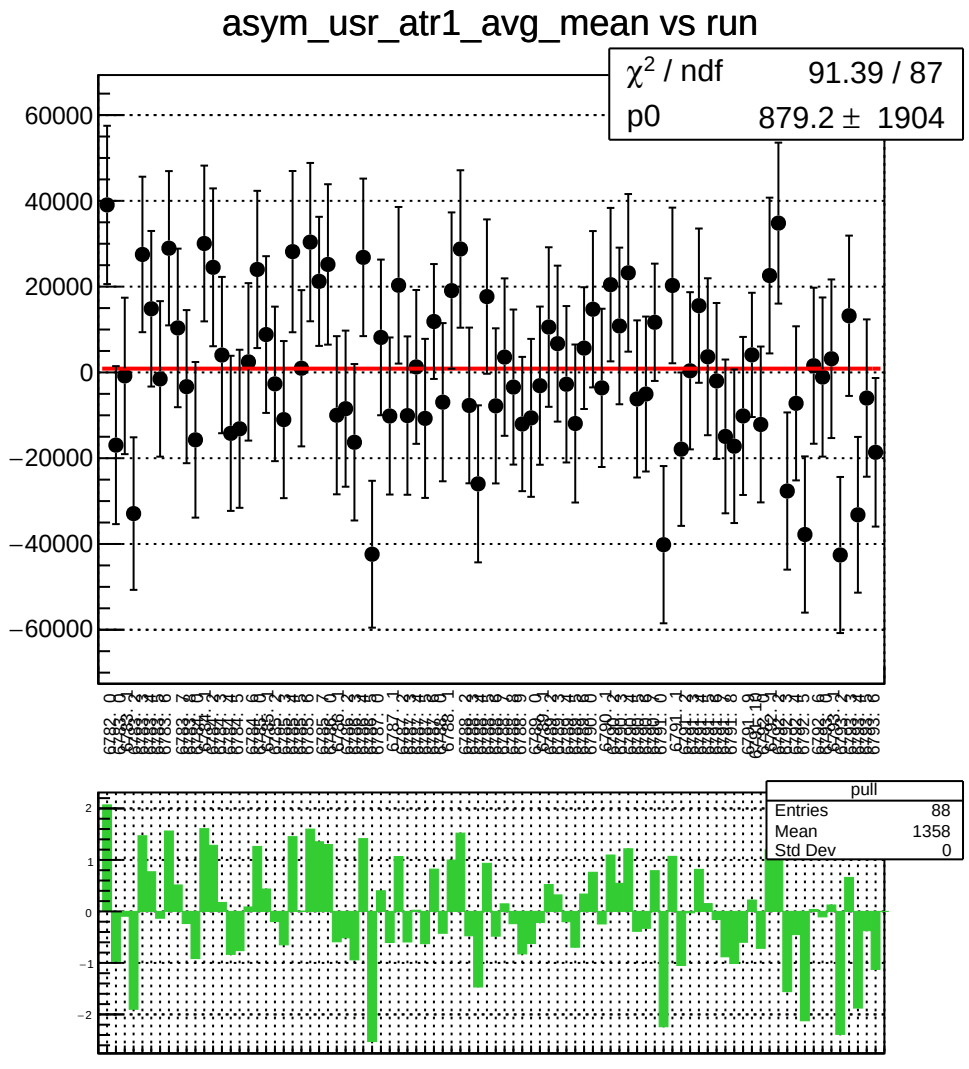

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 98.88 / 87
p0 372.1 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 918.4
Std Dev 0
2
1
0
−1
−2

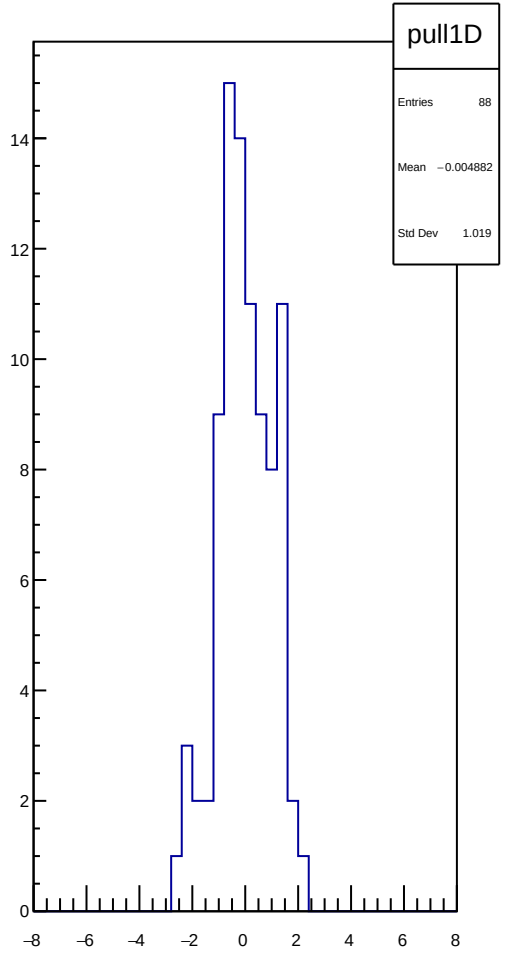

pull1D
Entries 88
Mean −0.008051
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

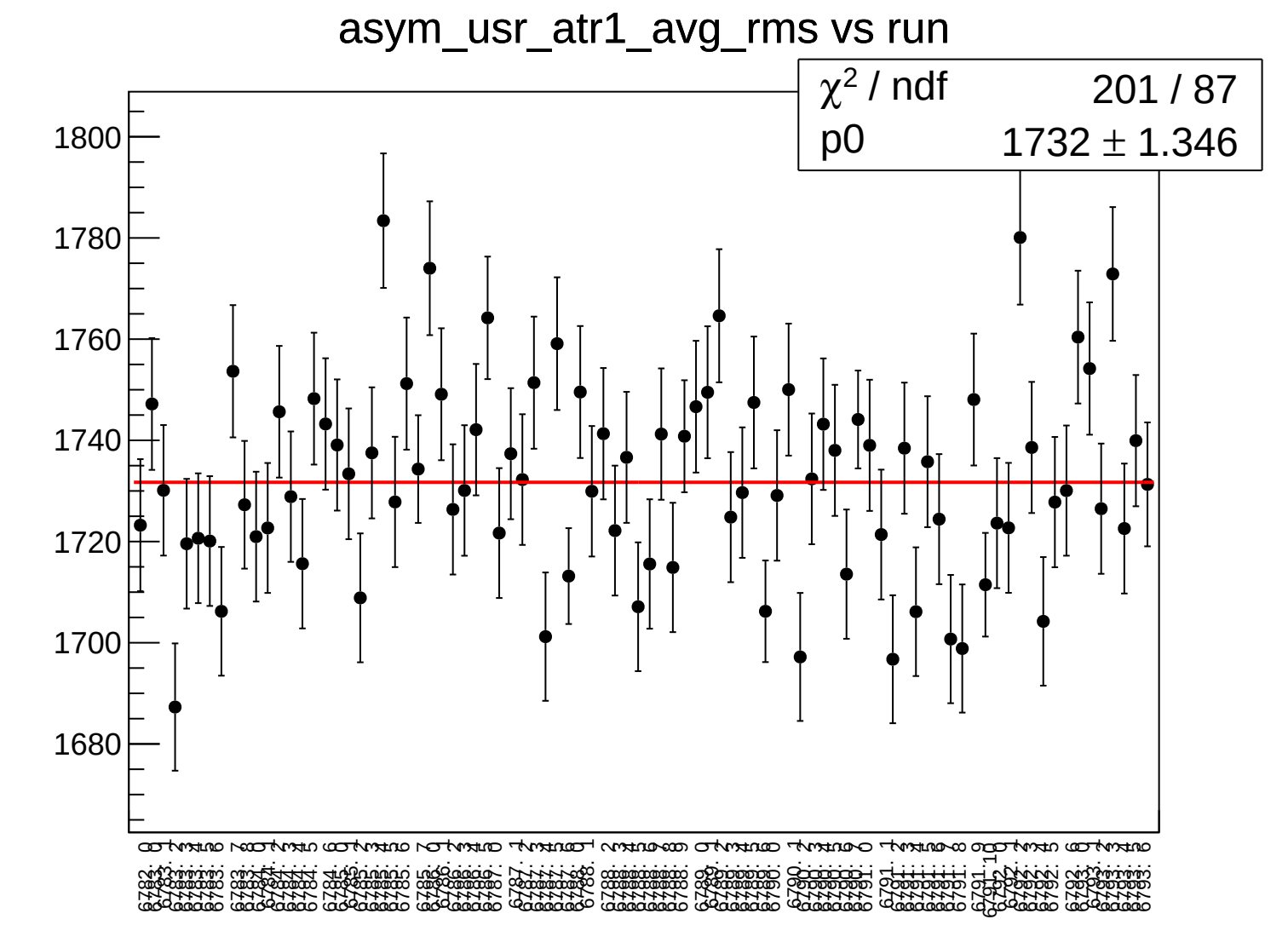

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 105.9 / 87
p0 1598 ± 1.242
1640
1620
1600
1580
1560
1540

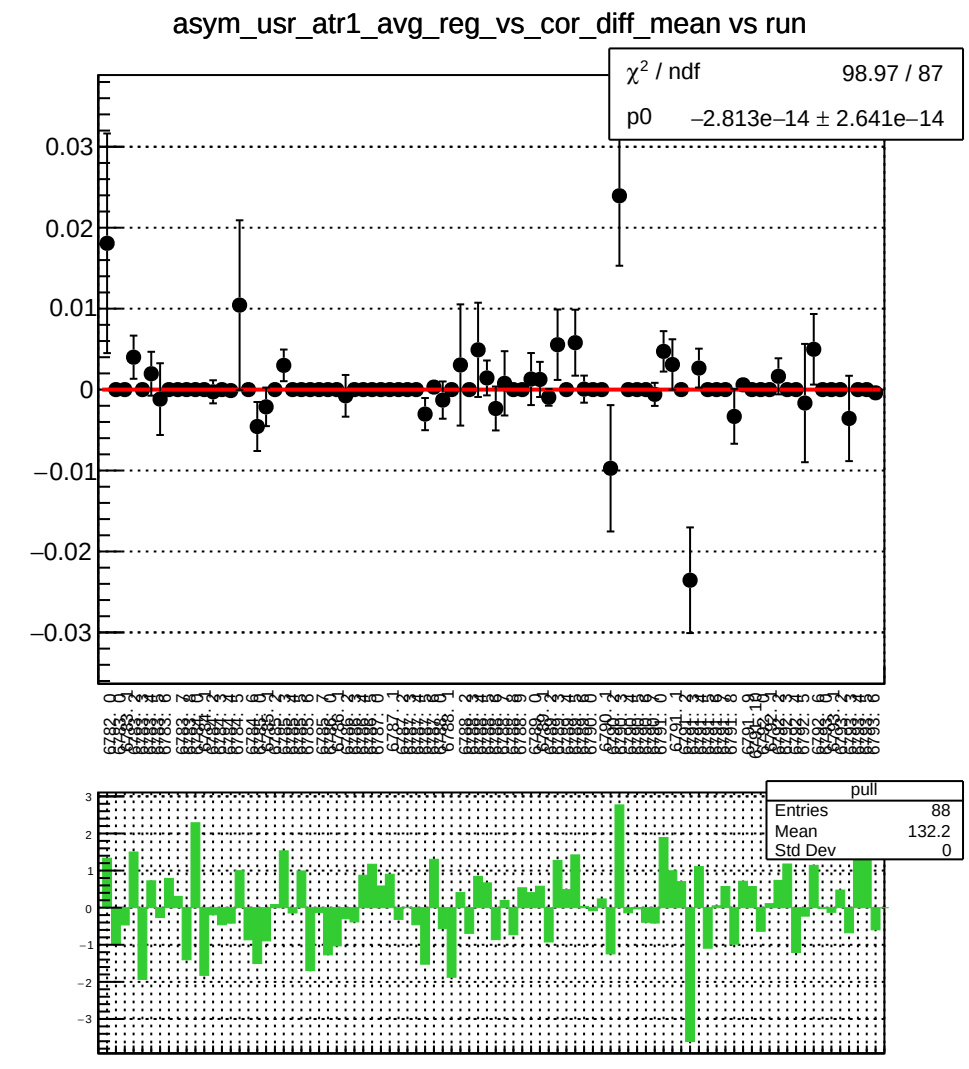

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.03 / 87
p0 −493.6 ± 748.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 80.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007453
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

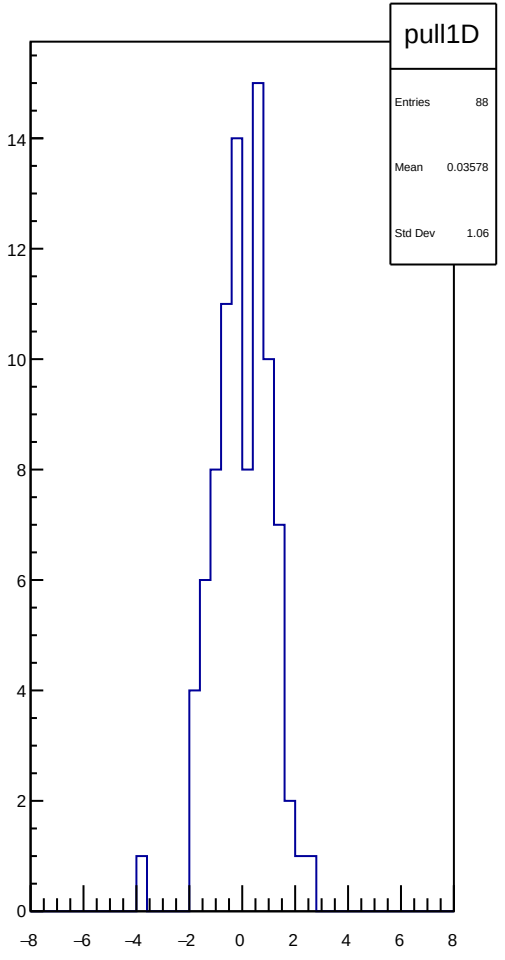

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2769 / 87
p0 680.3 ± 0.5293
780
760
740
720
700
680
660
640
620

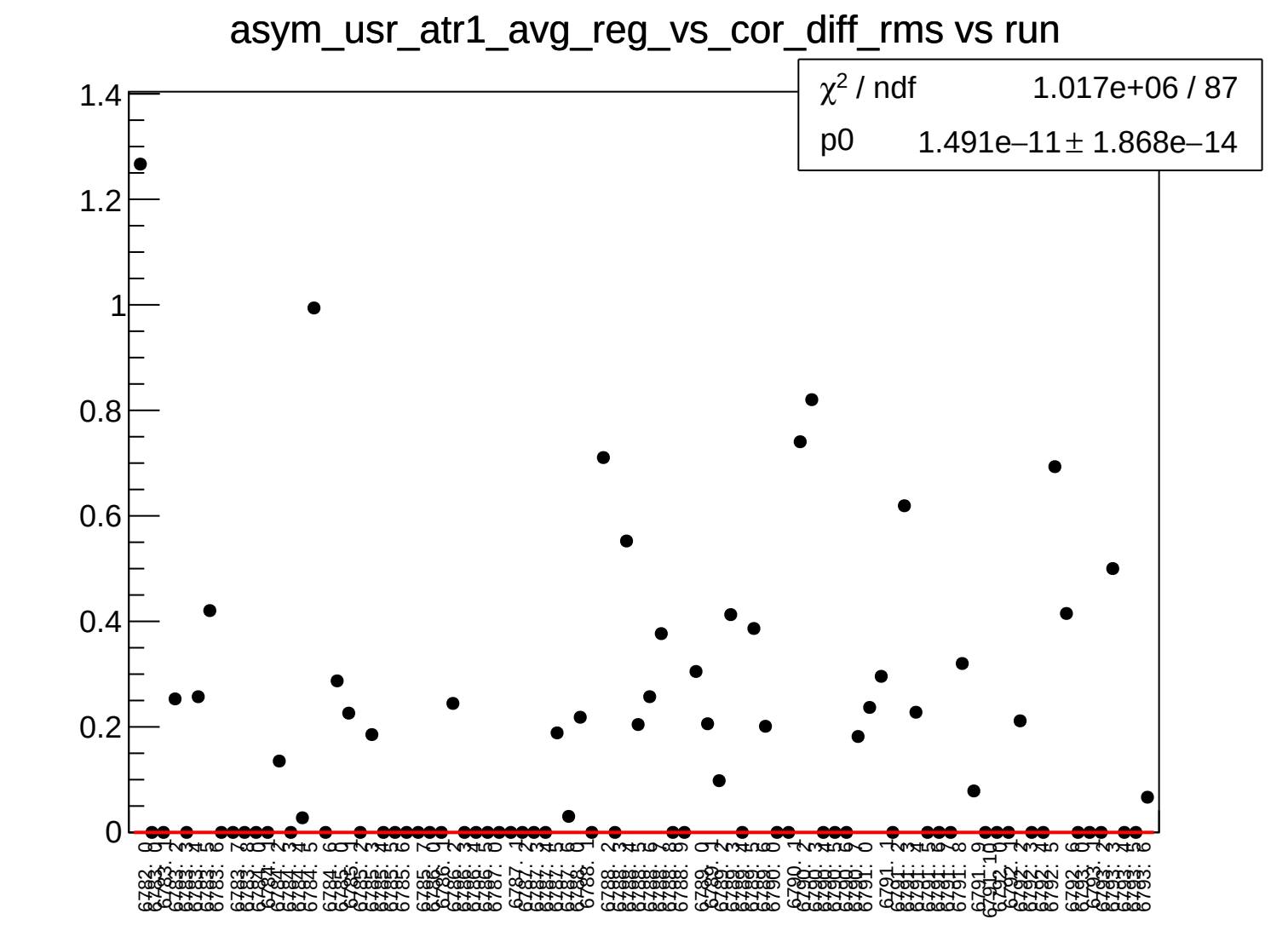

asym_usr_atr1_avg_mean vs run
χ² / ndf 91.39 / 87
p0 879.2 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1358
Std Dev 0
2
1
0
−1
−2

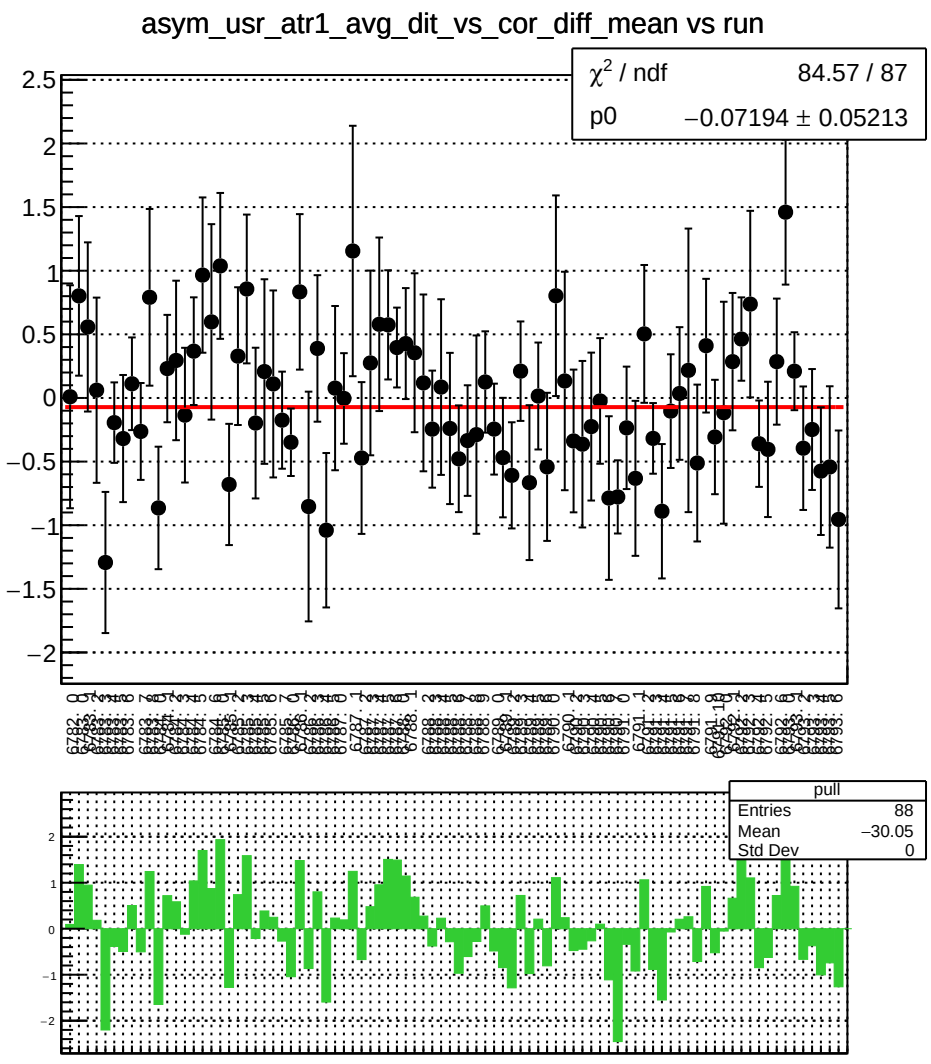

pull1D
Entries 88
Mean −0.004882
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

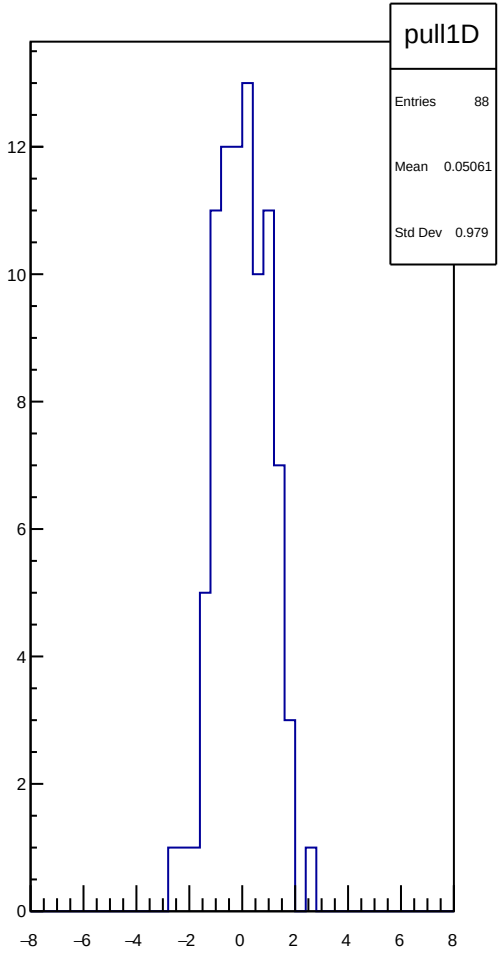

asym_usr_atr1_avg_rms vs run
χ² / ndf 201 / 87
p0 1732 ± 1.346
1800
1780
1760
1740
1720
1700
1680

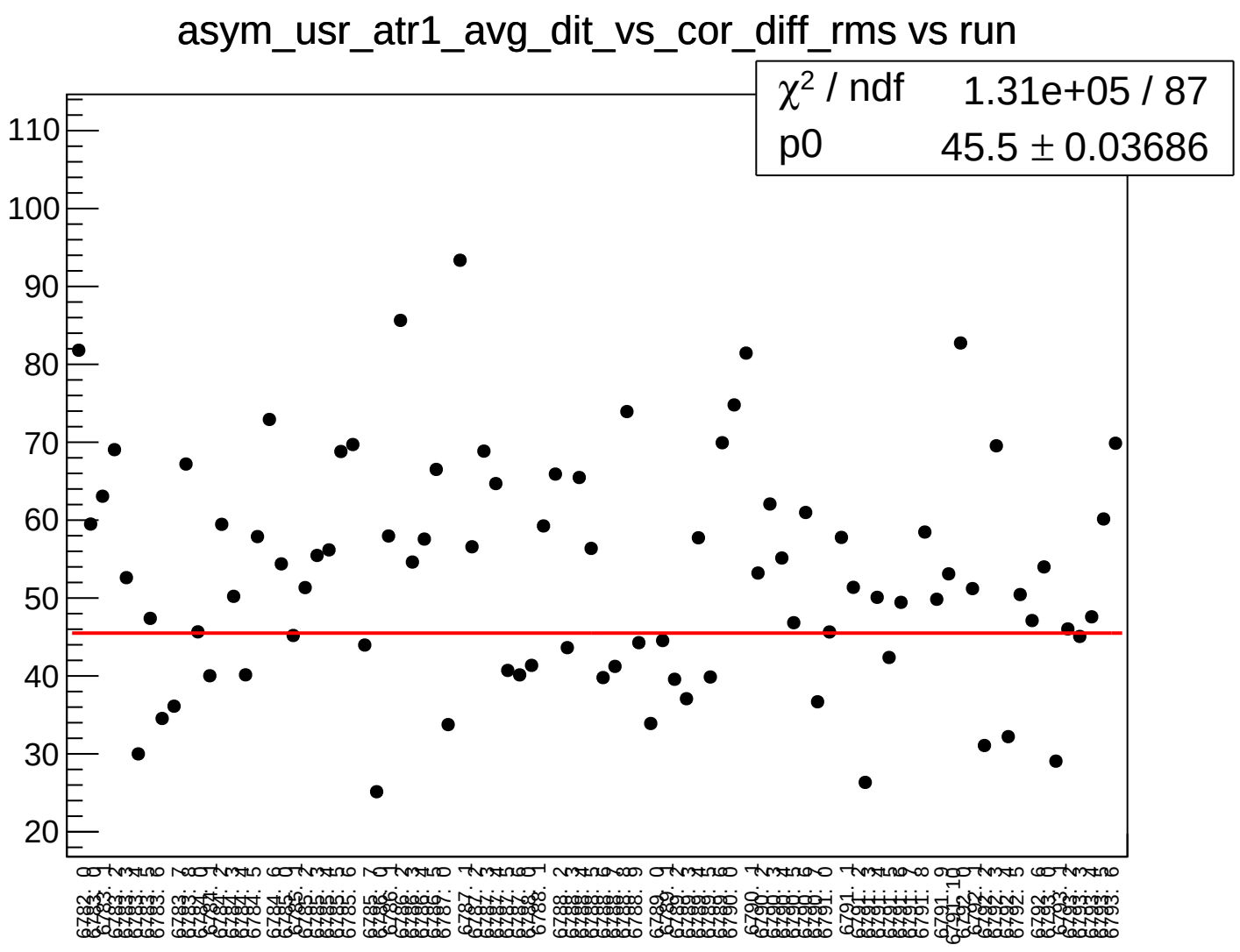

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.97 / 87
p0 −2.813e−14 ± 2.641e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 132.2
Std Dev 0
3
2
1
0
−1
−2
−3

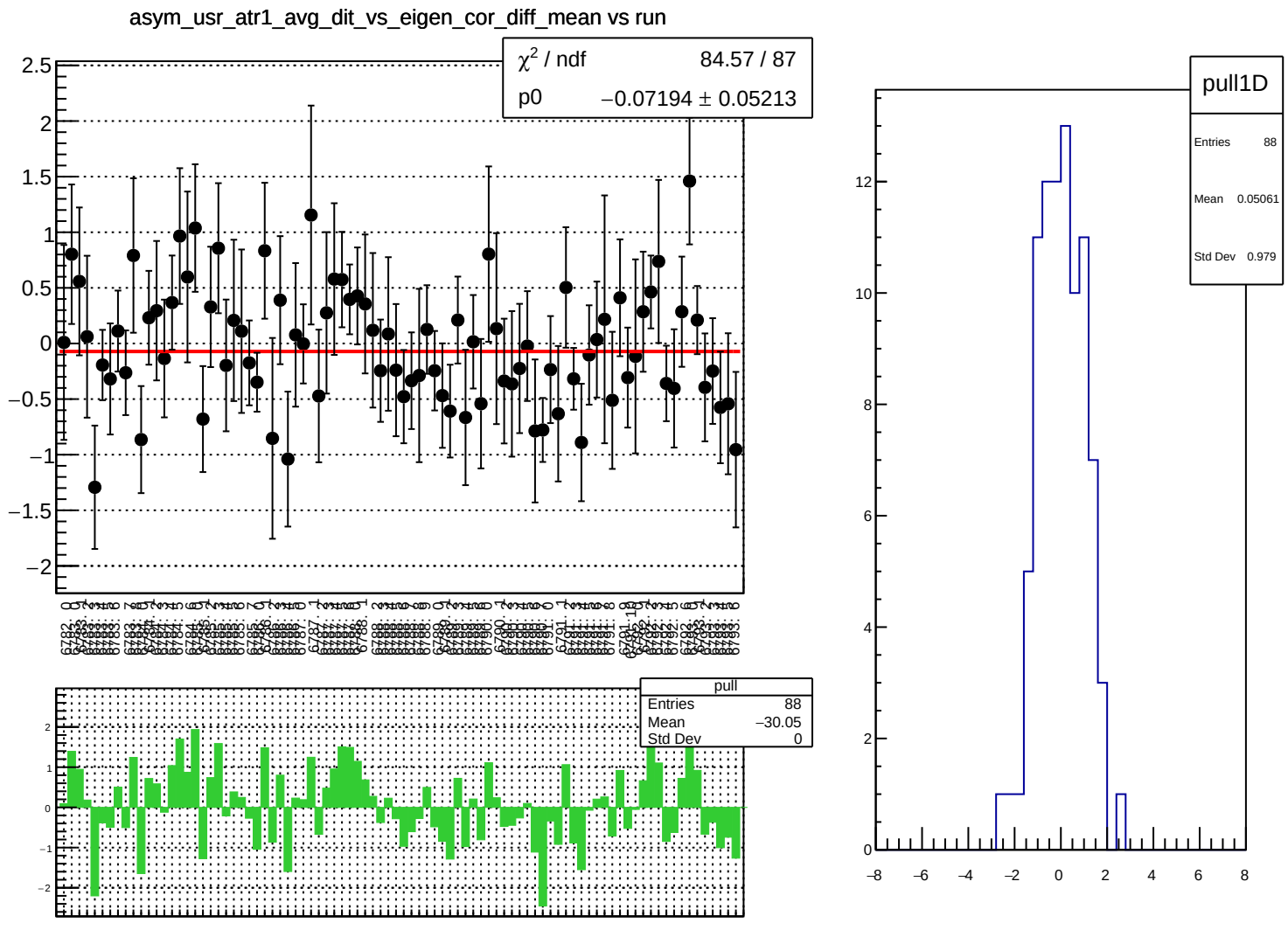

pull1D
Entries 88
Mean 0.03578
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

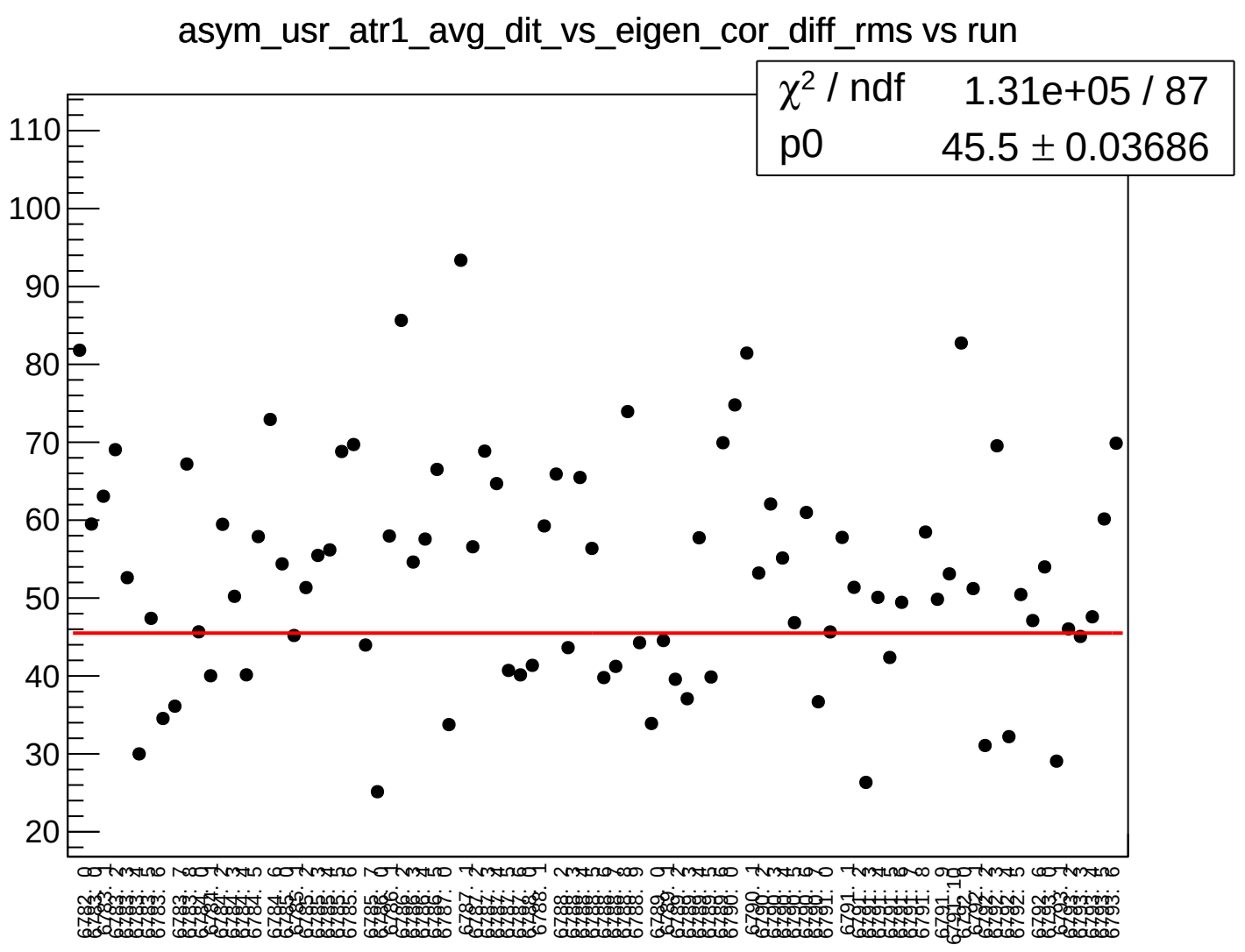

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 87
p0 1.491e−11 ± 1.868e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

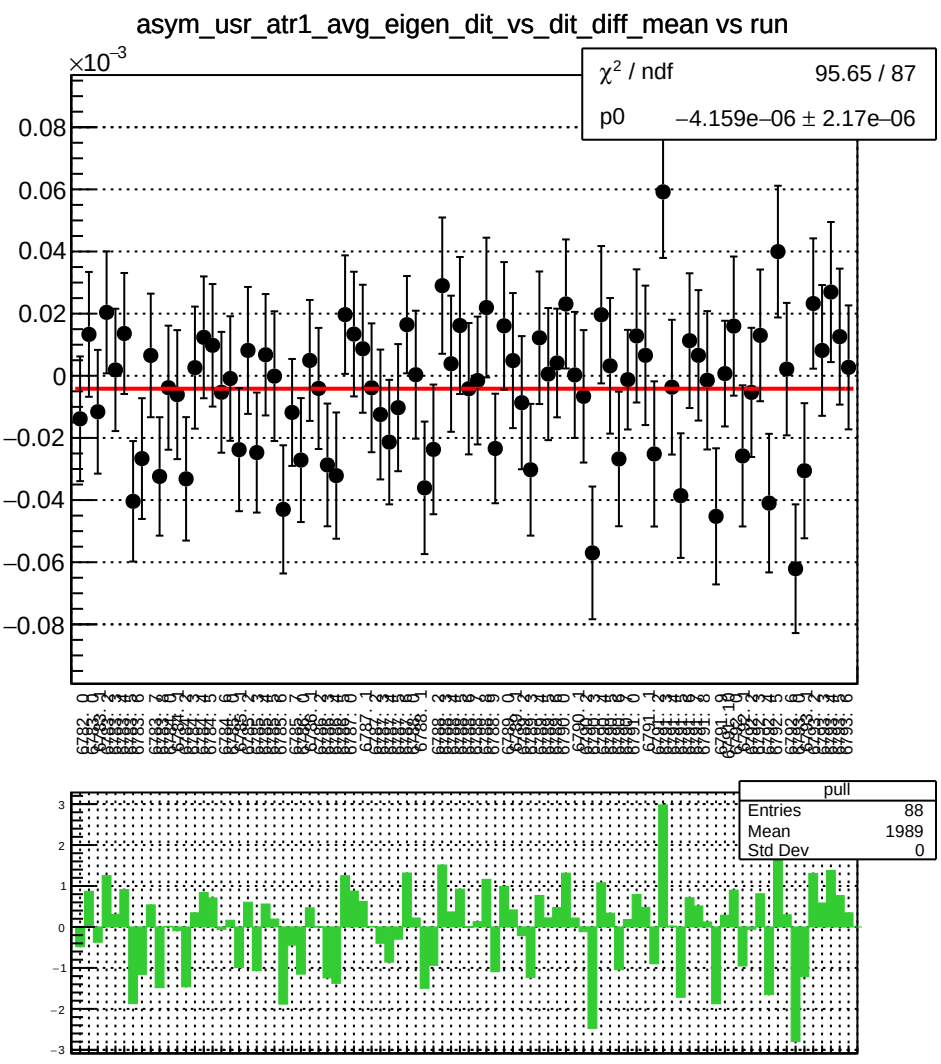

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07194 ± 0.05213
pull
Entries 88
Mean −30.05
Std Dev 0

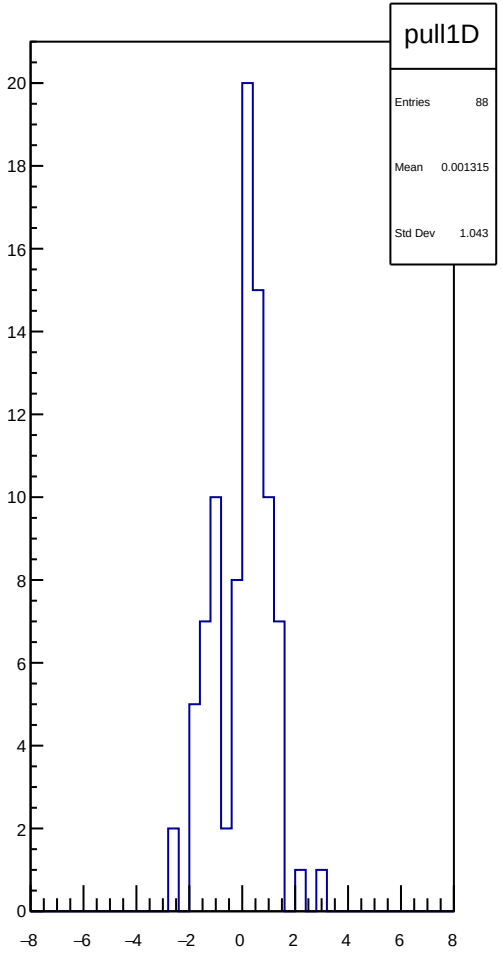

pull1D
Entries 88
Mean 0.05061
Std Dev 0.979

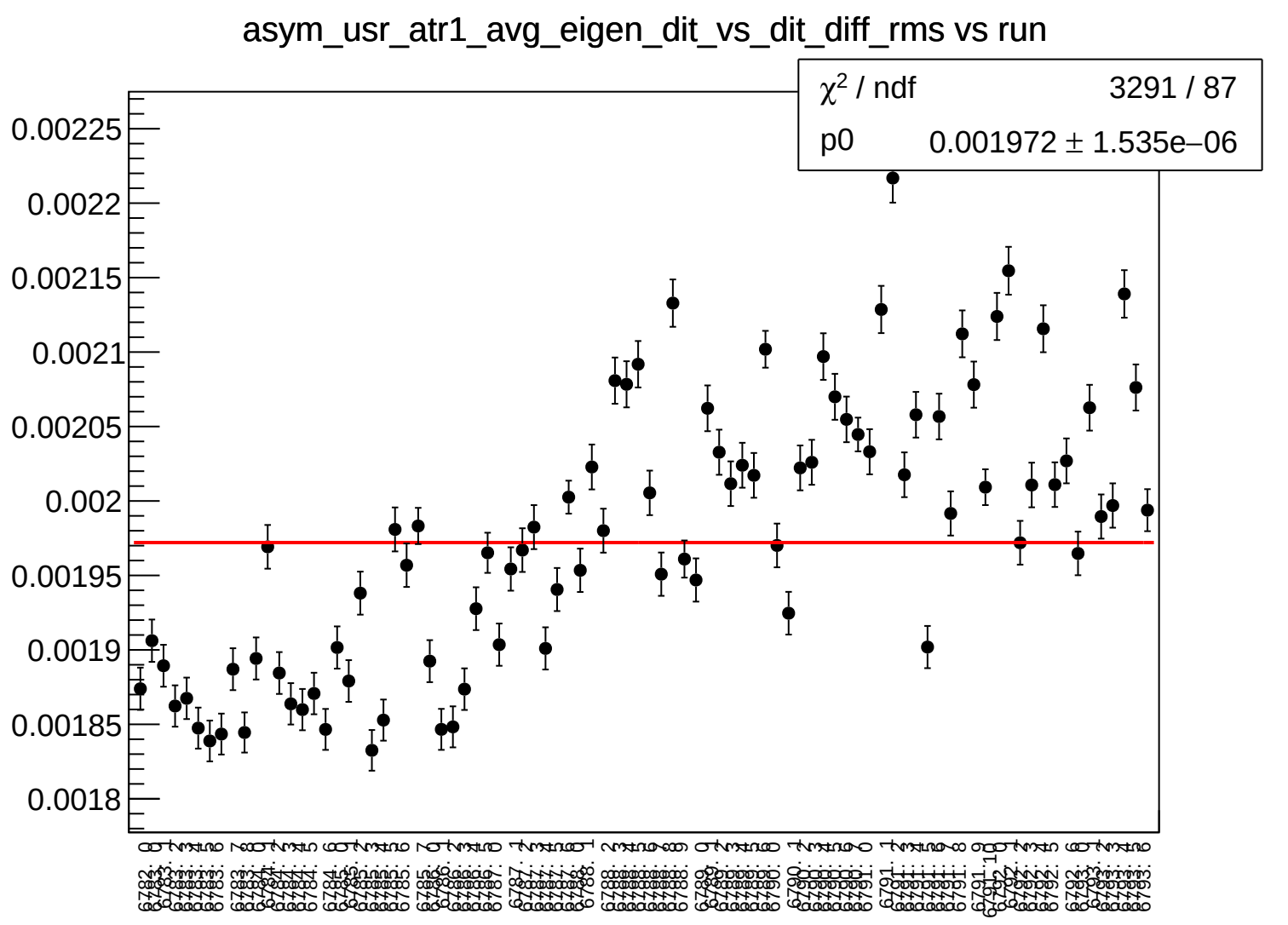

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 87
p0 45.5 ± 0.03686
110
100
90
80
70
60
50
40
30
20

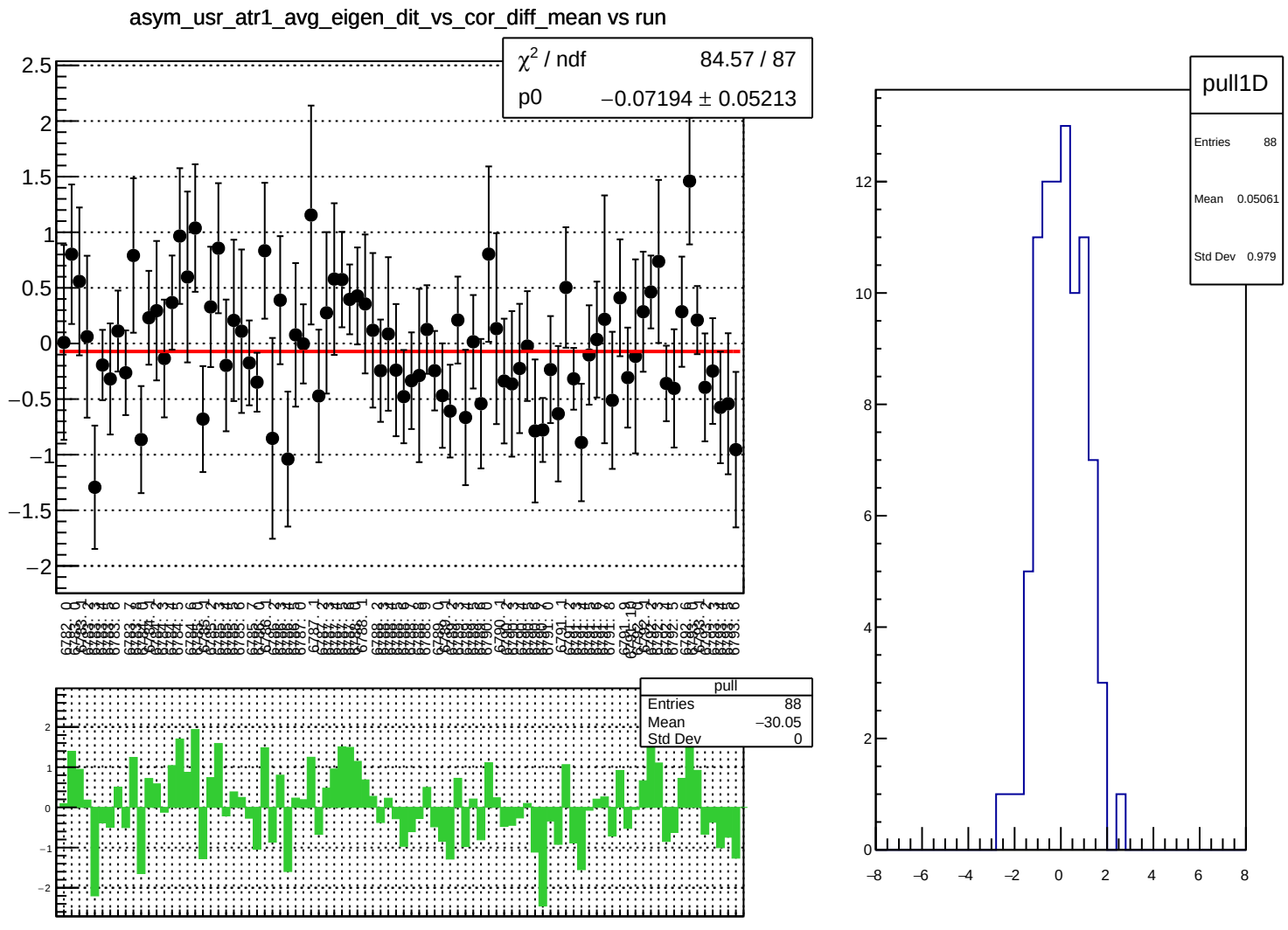

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07194 ± 0.05213
pull
Entries 88
Mean −30.05
Std Dev 0
pull1D
Entries 88
Mean 0.05061
Std Dev 0.979

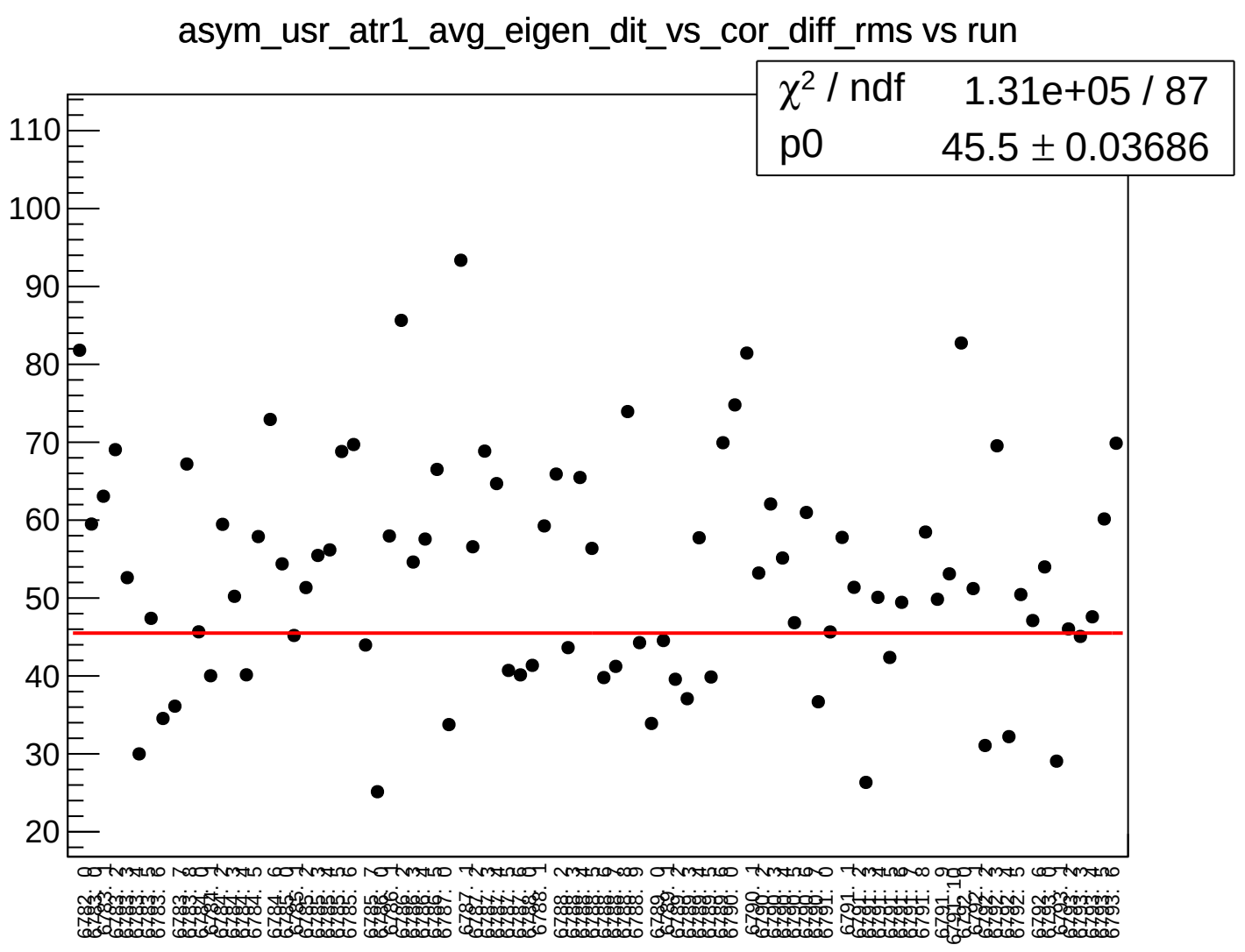

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 87
p0 45.5 ± 0.03686
110
100
90
80
70
60
50
40
30
20

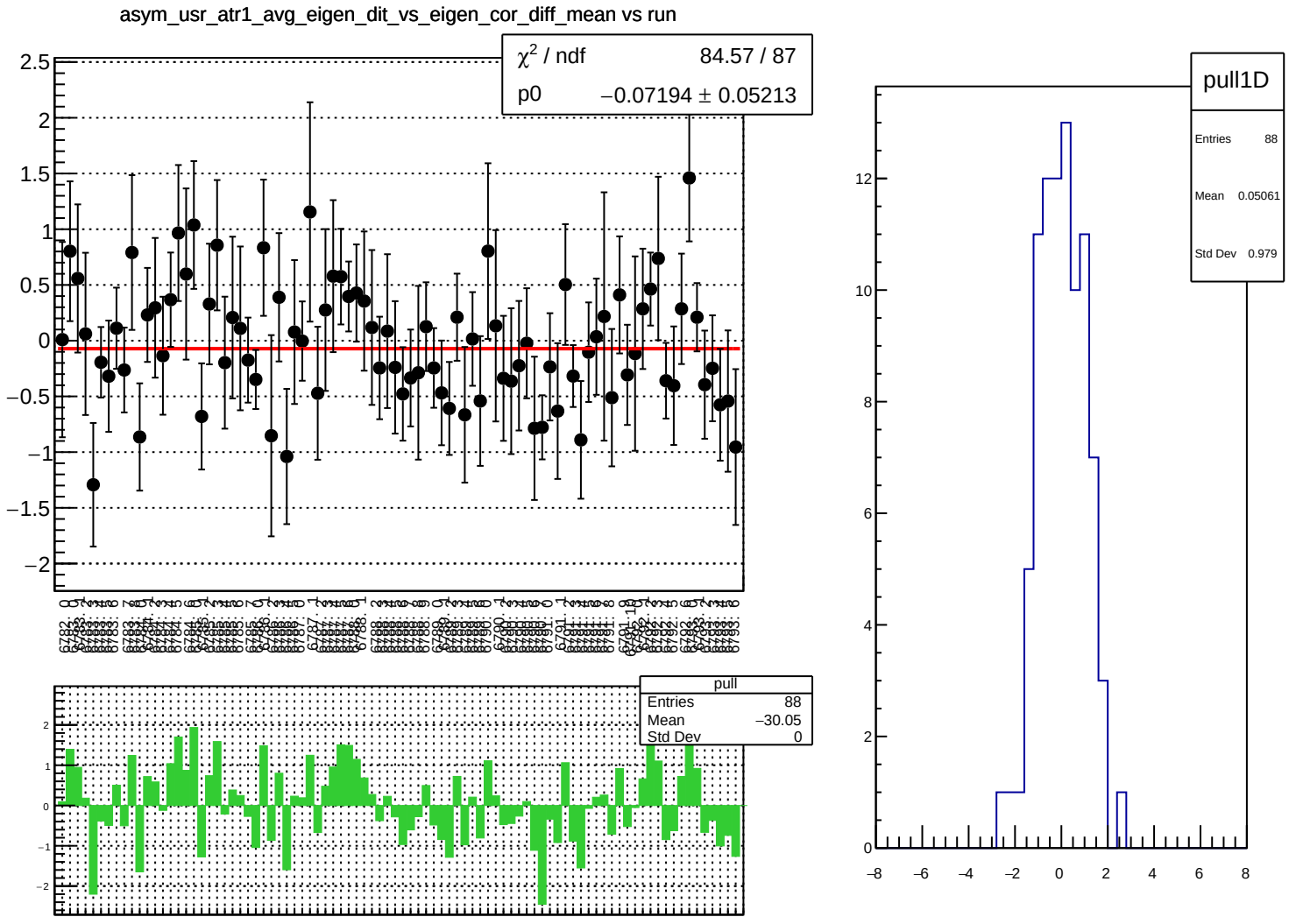

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.65 / 87
p0 −4.159e−06 ± 2.17e−06
pull
Entries 88
Mean 1989
Std Dev 0

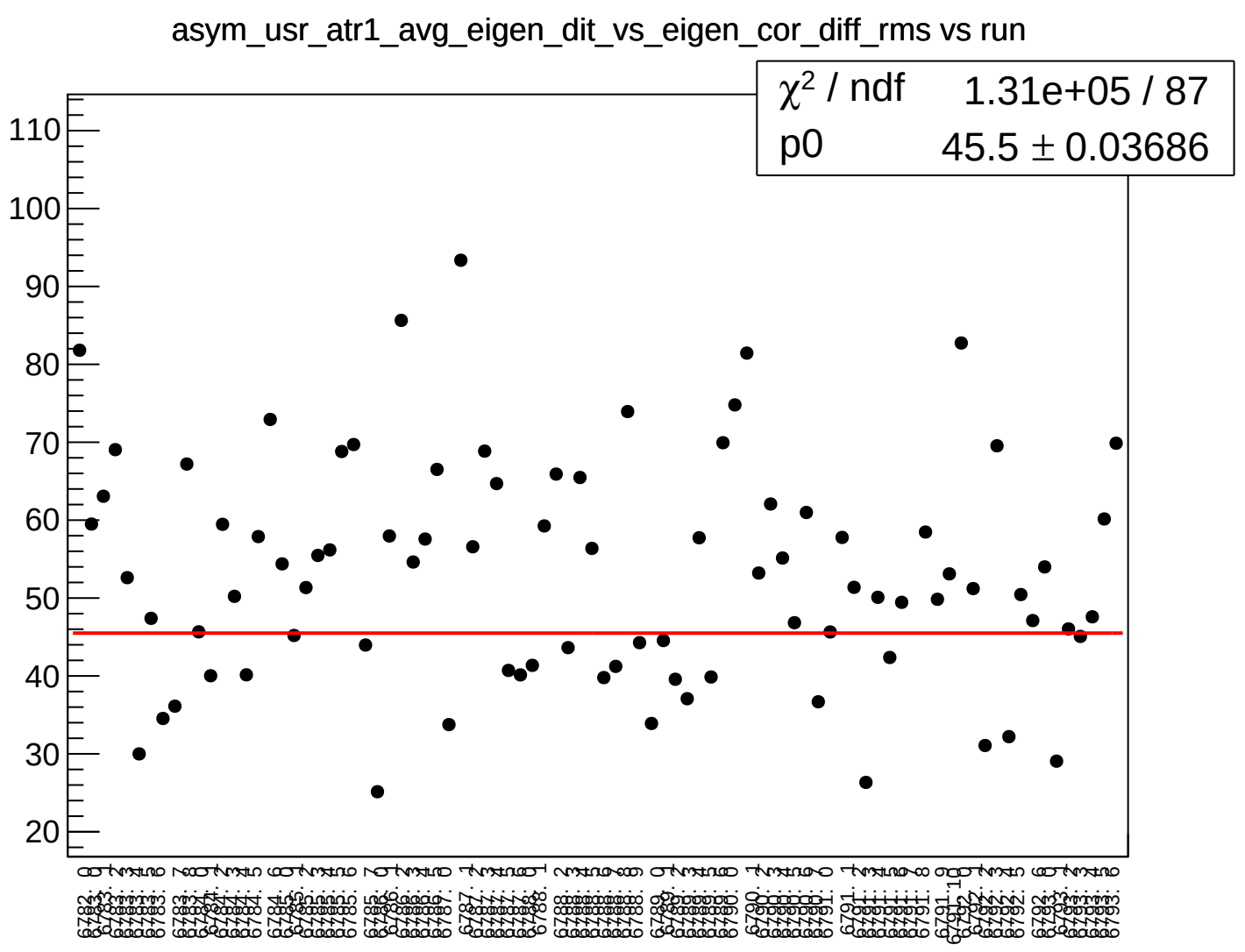

pull1D
Entries 88
Mean 0.001315
Std Dev 1.043

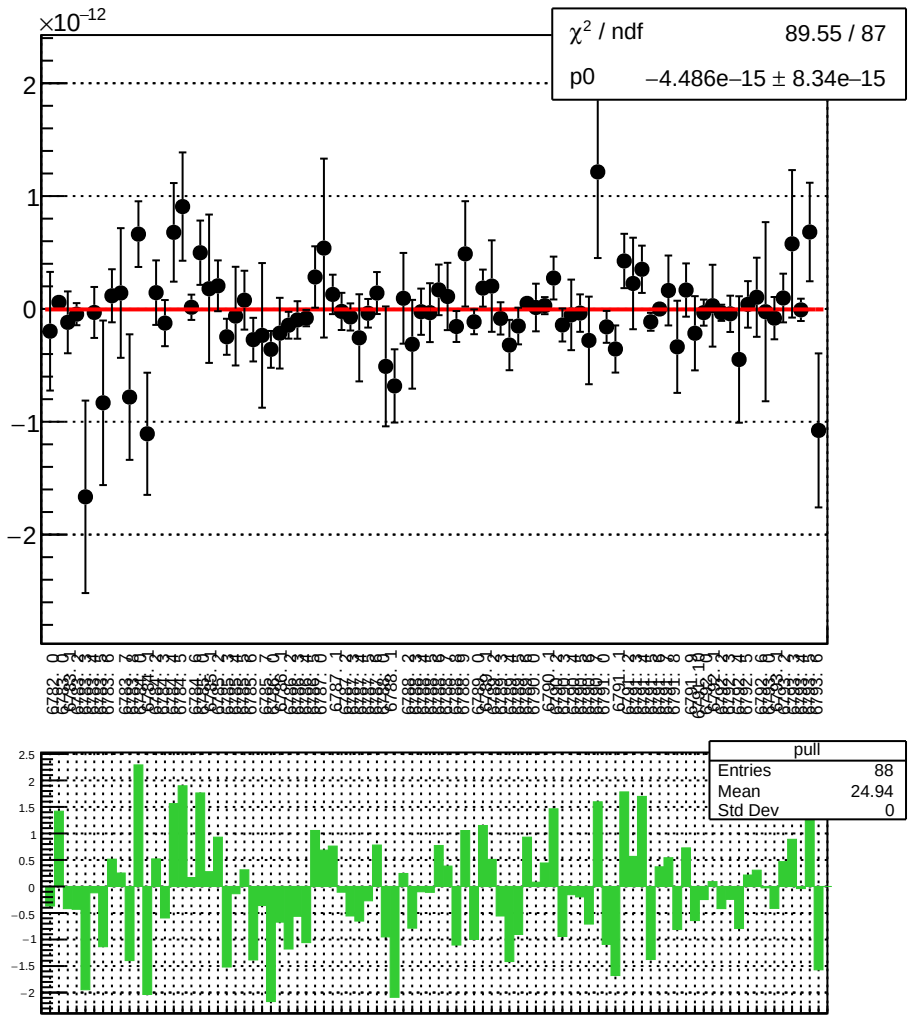

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3291 / 87
p0 0.001972 ± 1.535e−06
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018

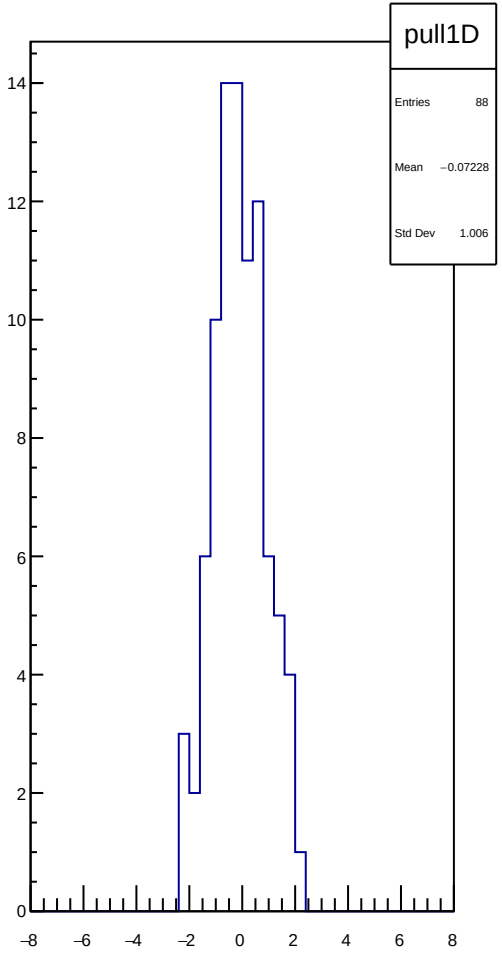

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07194 ± 0.05213
pull
Entries 88
Mean −30.05
Std Dev 0
pull1D
Entries 88
Mean 0.05061
Std Dev 0.979

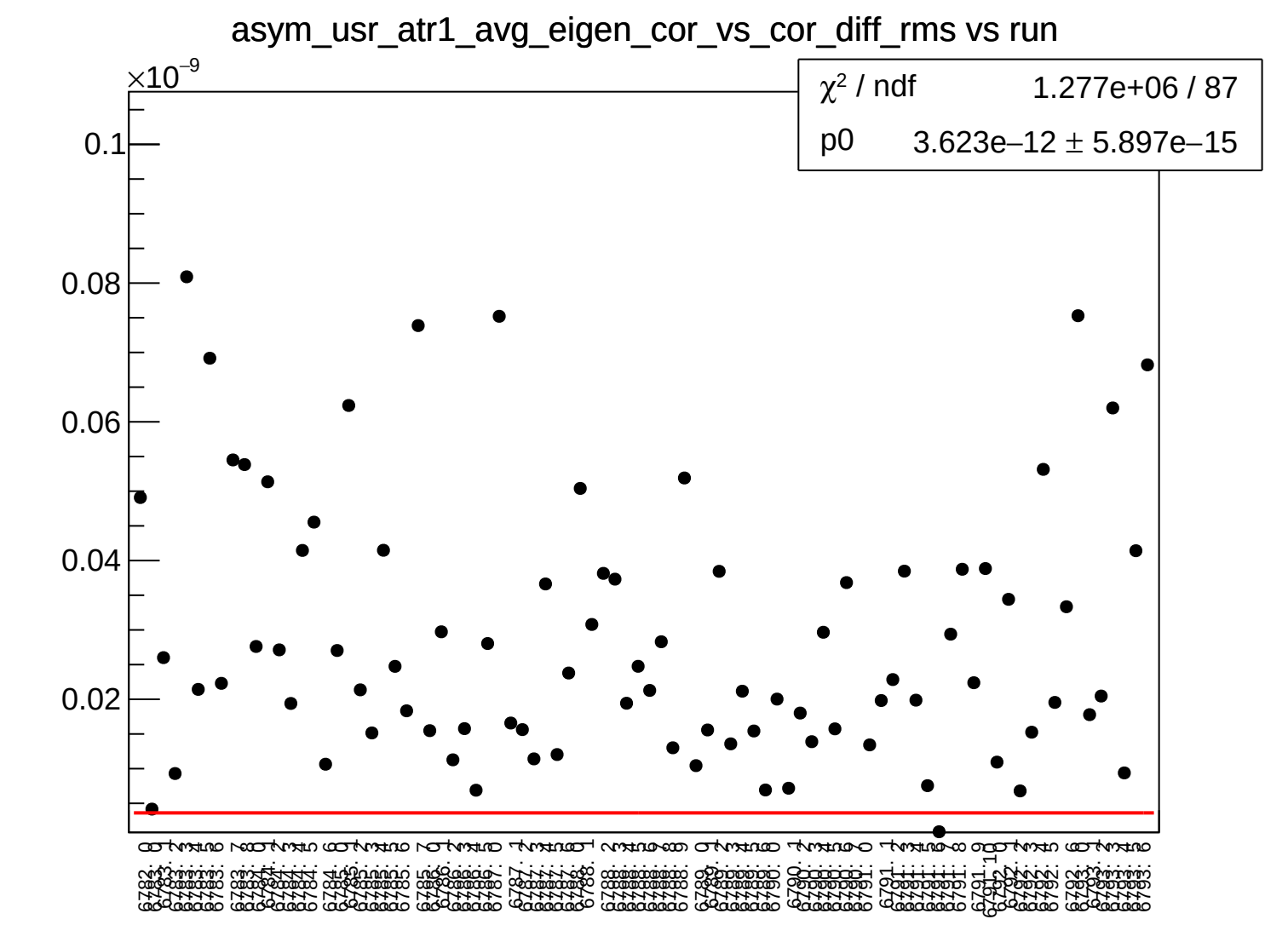

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 87
p0 45.5 ± 0.03686
110
100
90
80
70
60
50
40
30
20

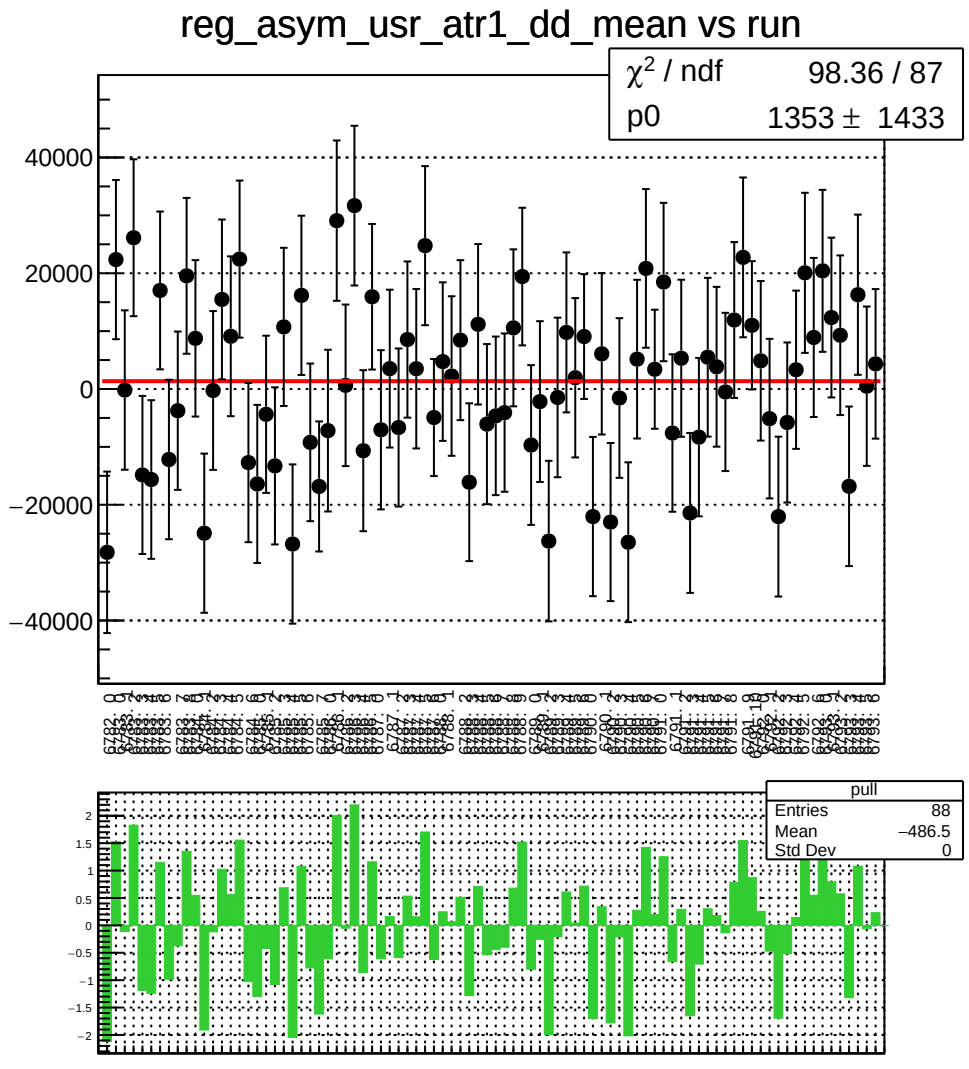

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.57 / 87
p0 −0.07194 ± 0.05213
pull
Entries 88
Mean −30.05
Std Dev 0
pull1D
Entries 88
Mean 0.05061
Std Dev 0.979

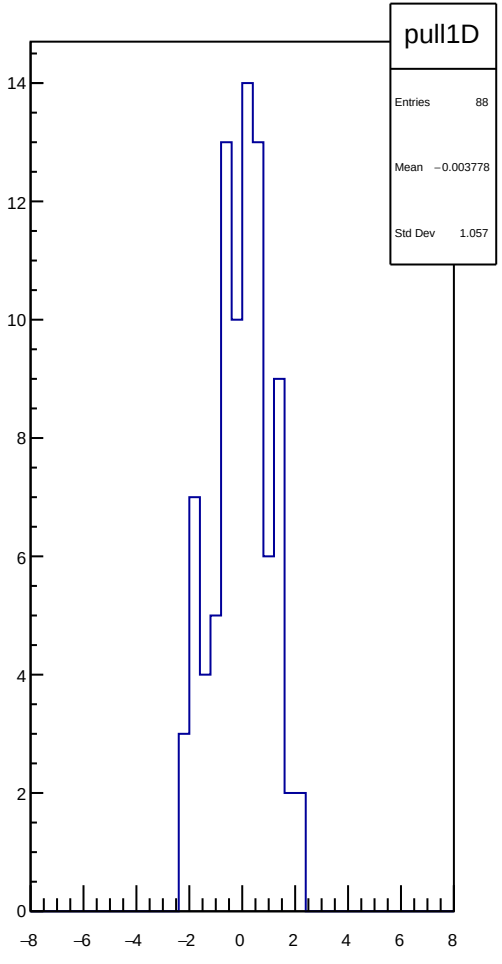

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 87
p0 45.5 ± 0.03686
110
100
90
80
70
60
50
40
30
20

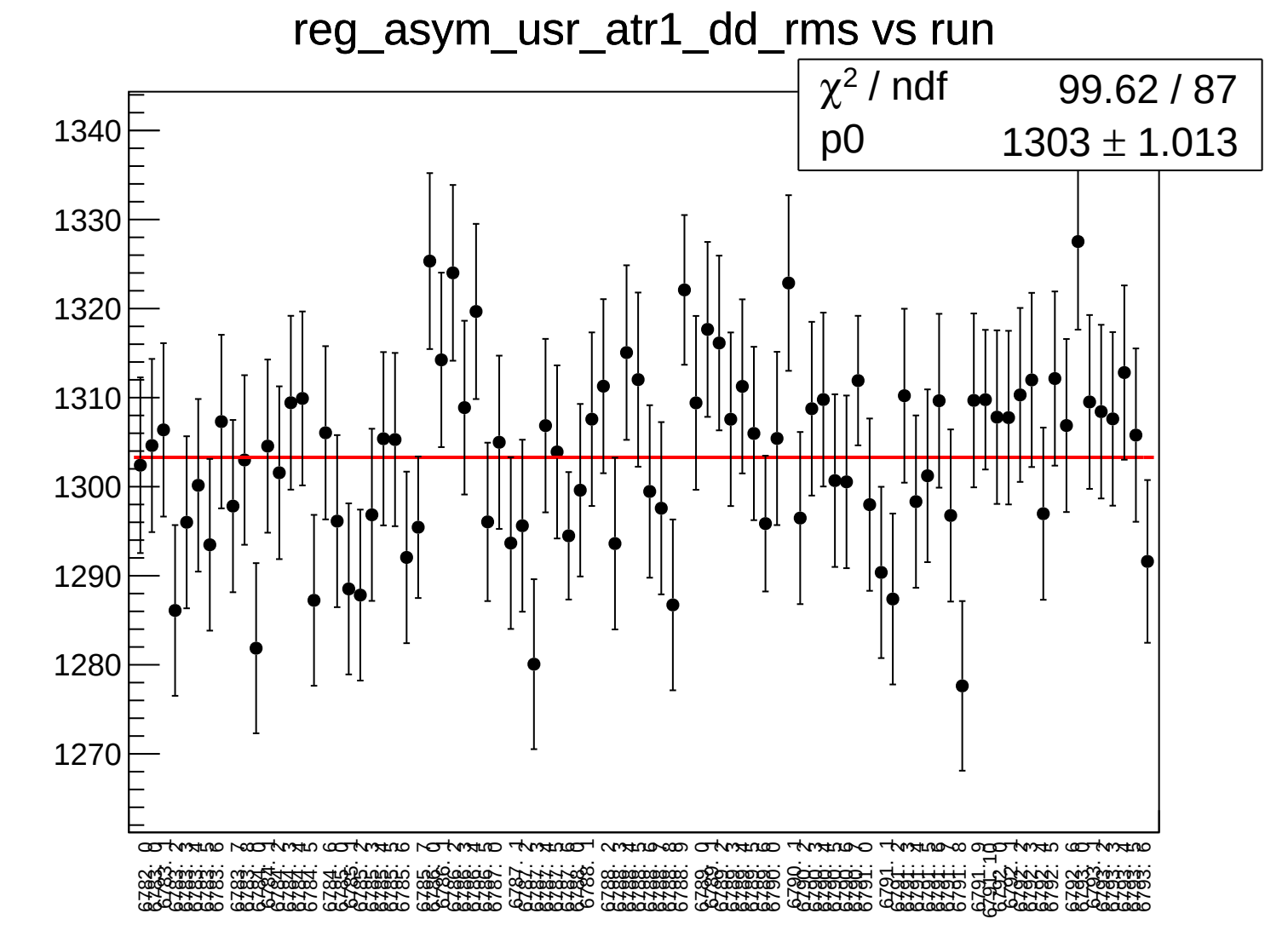

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.55 / 87
p0 −4.486e−15 ± 8.34e−15
pull
Entries 88
Mean 24.94
Std Dev 0

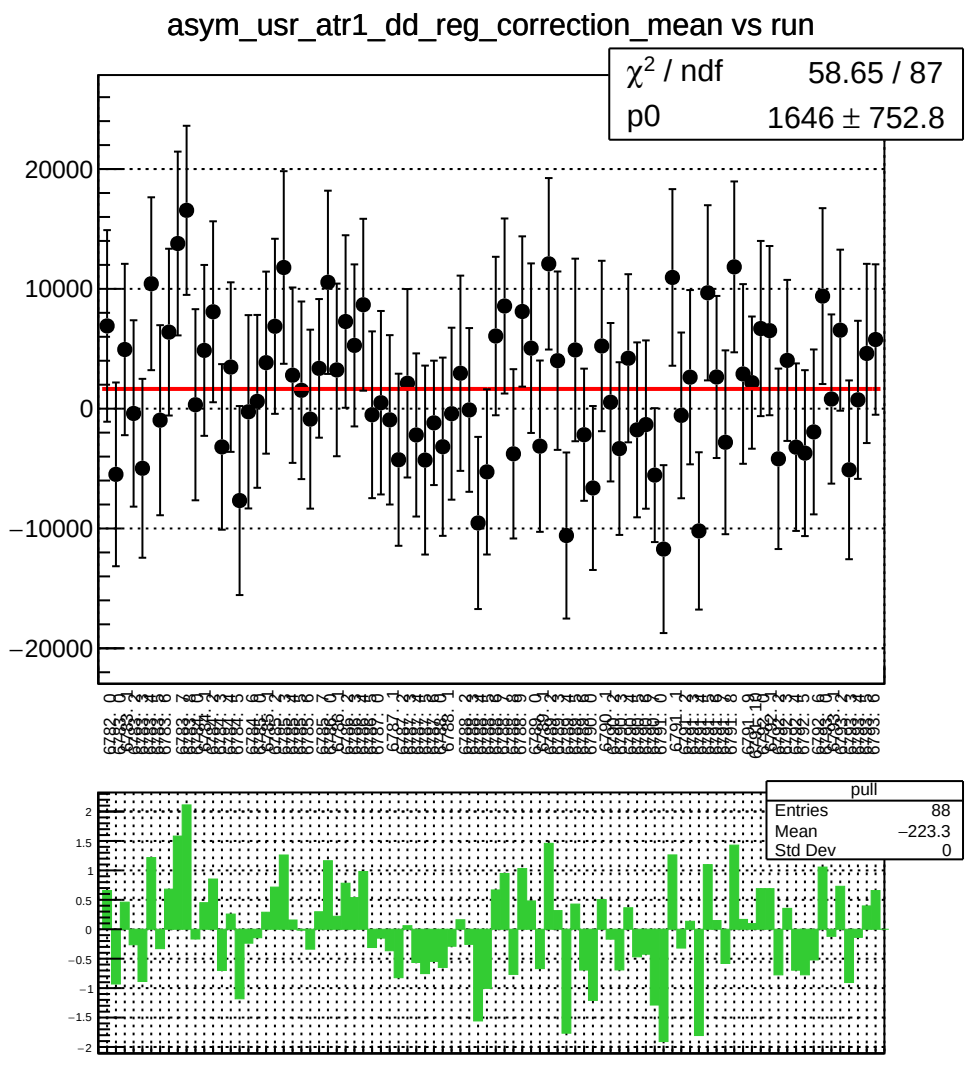

pull1D
Entries 88
Mean −0.07228
Std Dev 1.006

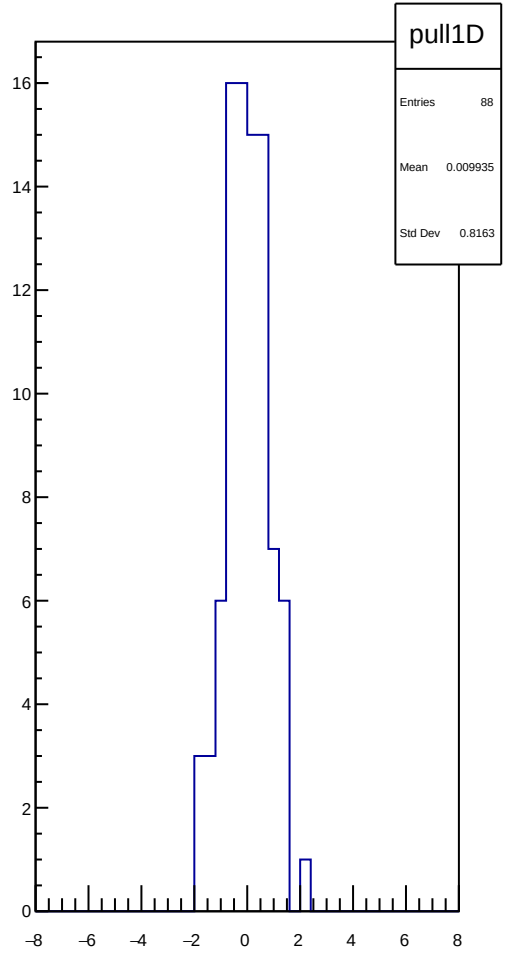

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.277e+06 / 87
p0 3.623e−12 ± 5.897e−15
0.1
0.08
0.06
0.04
0.02

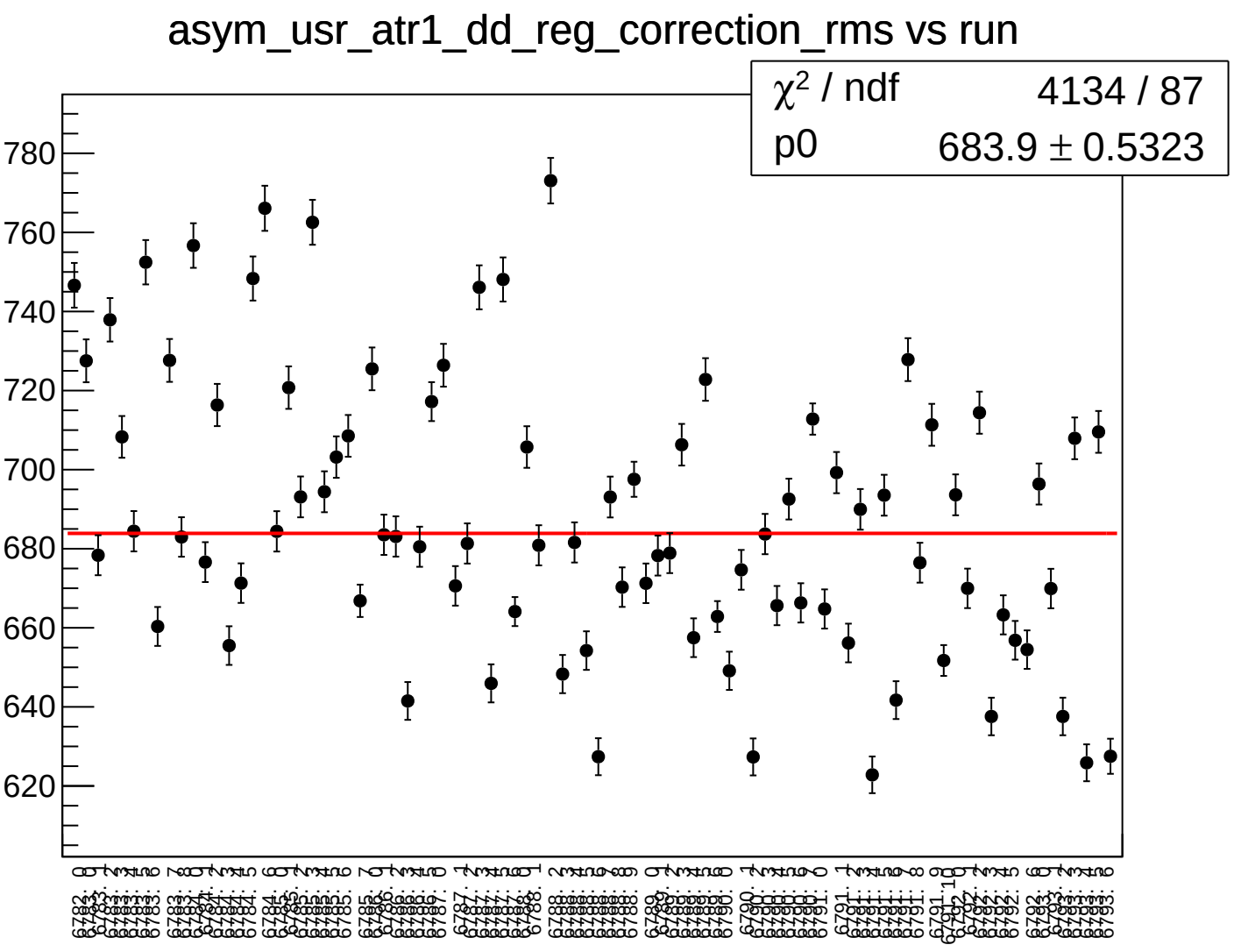

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.36 / 87
p0 1353 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −486.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

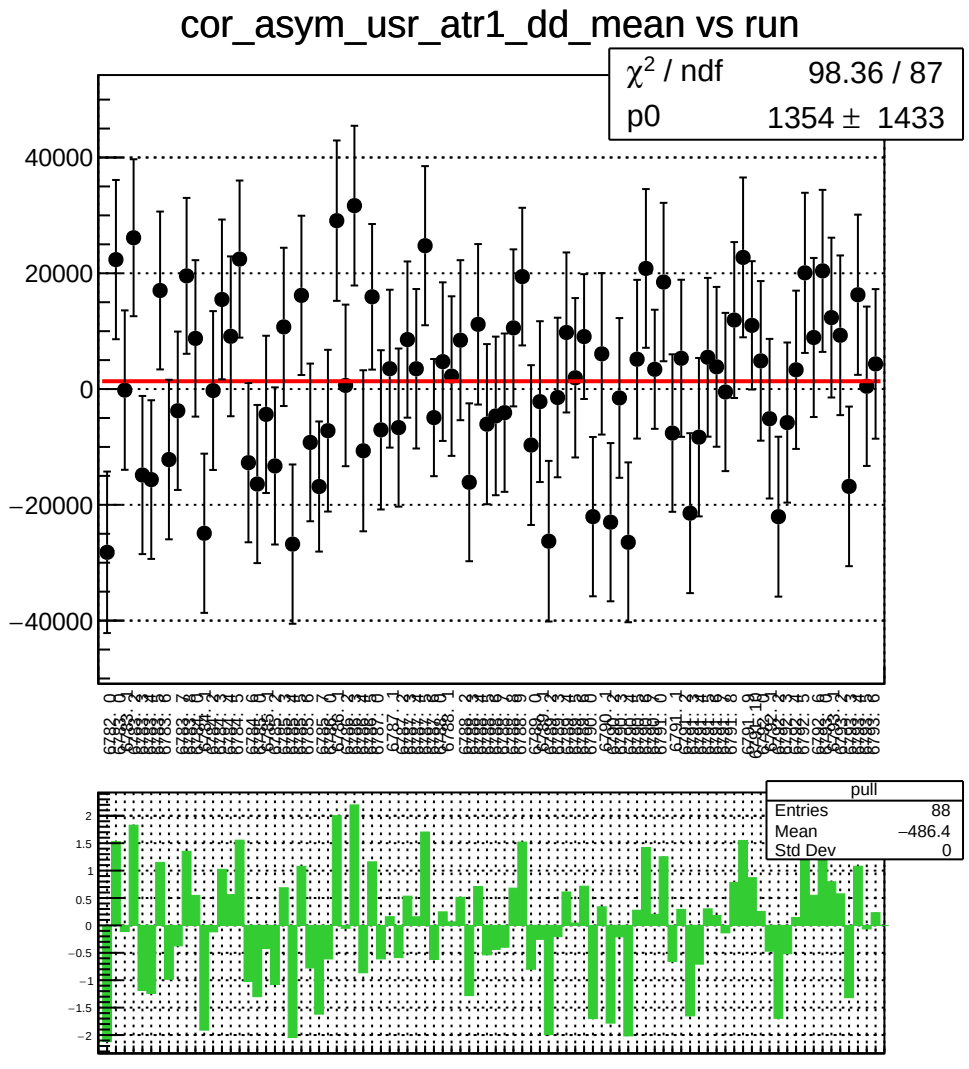

pull1D
Entries 88
Mean −0.003778
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

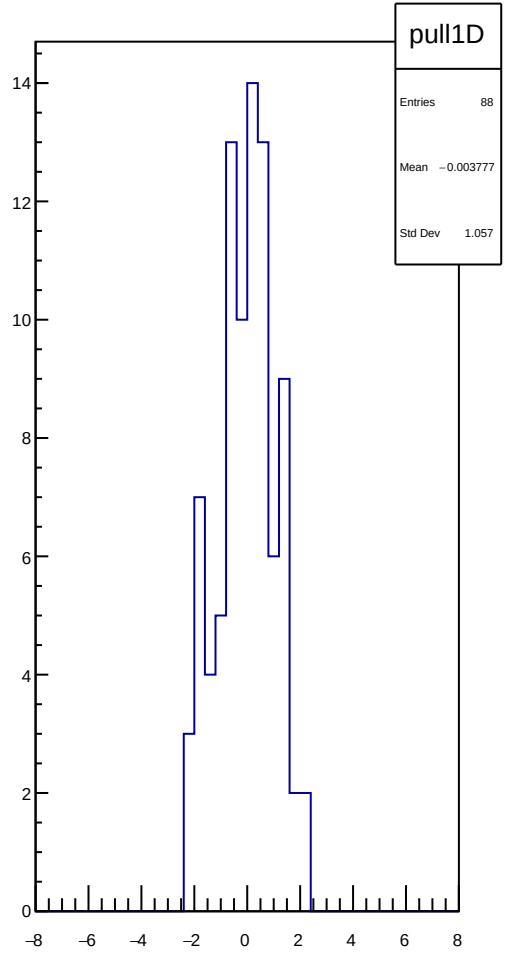

reg_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 99.62 / 87
p0 1303 ± 1.013
1340
1330
1320
1310
1300
1290
1280
1270

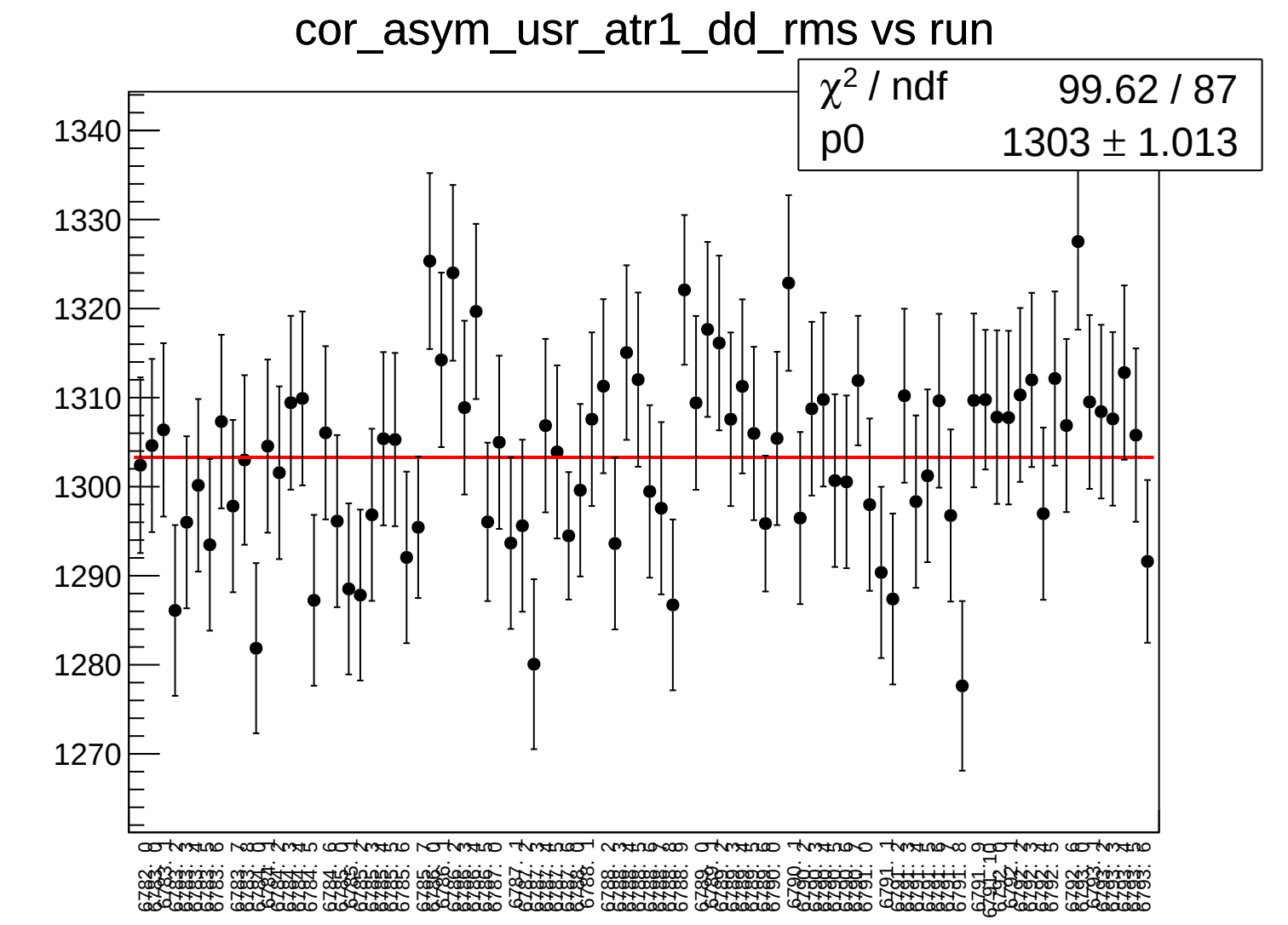

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 58.65 / 87
p0 1646 ± 752.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −223.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

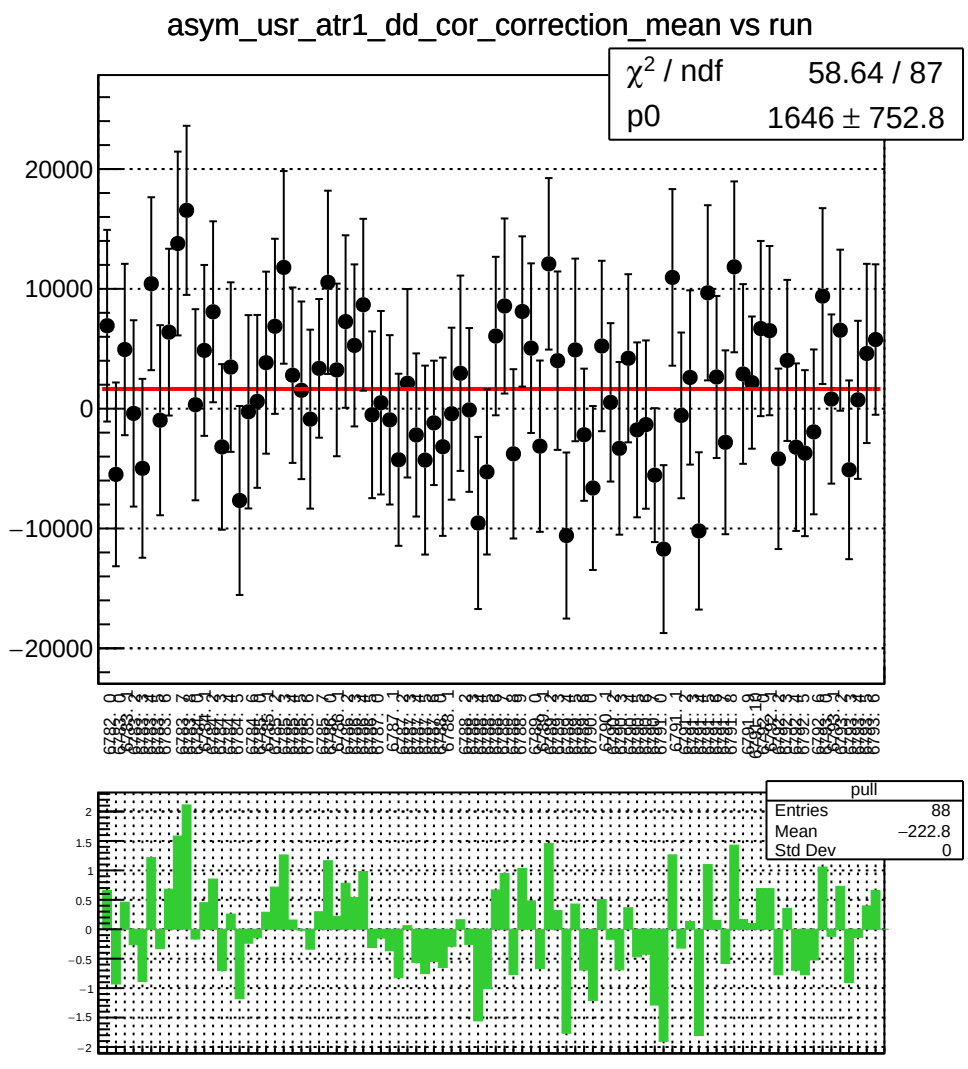

pull1D
Entries 88
Mean 0.009935
Std Dev 0.8163
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

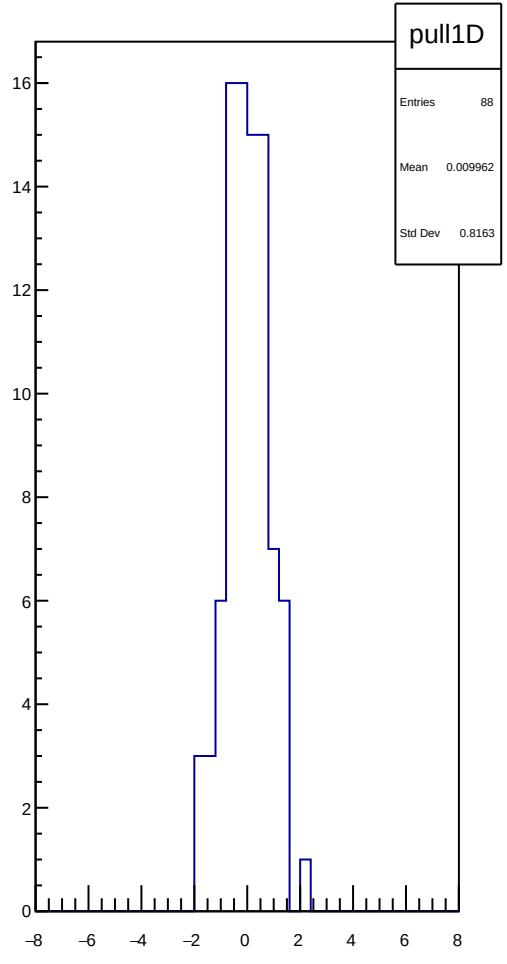

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4134 / 87
p0 683.9 ± 0.5323
780
760
740
720
700
680
660
640
620

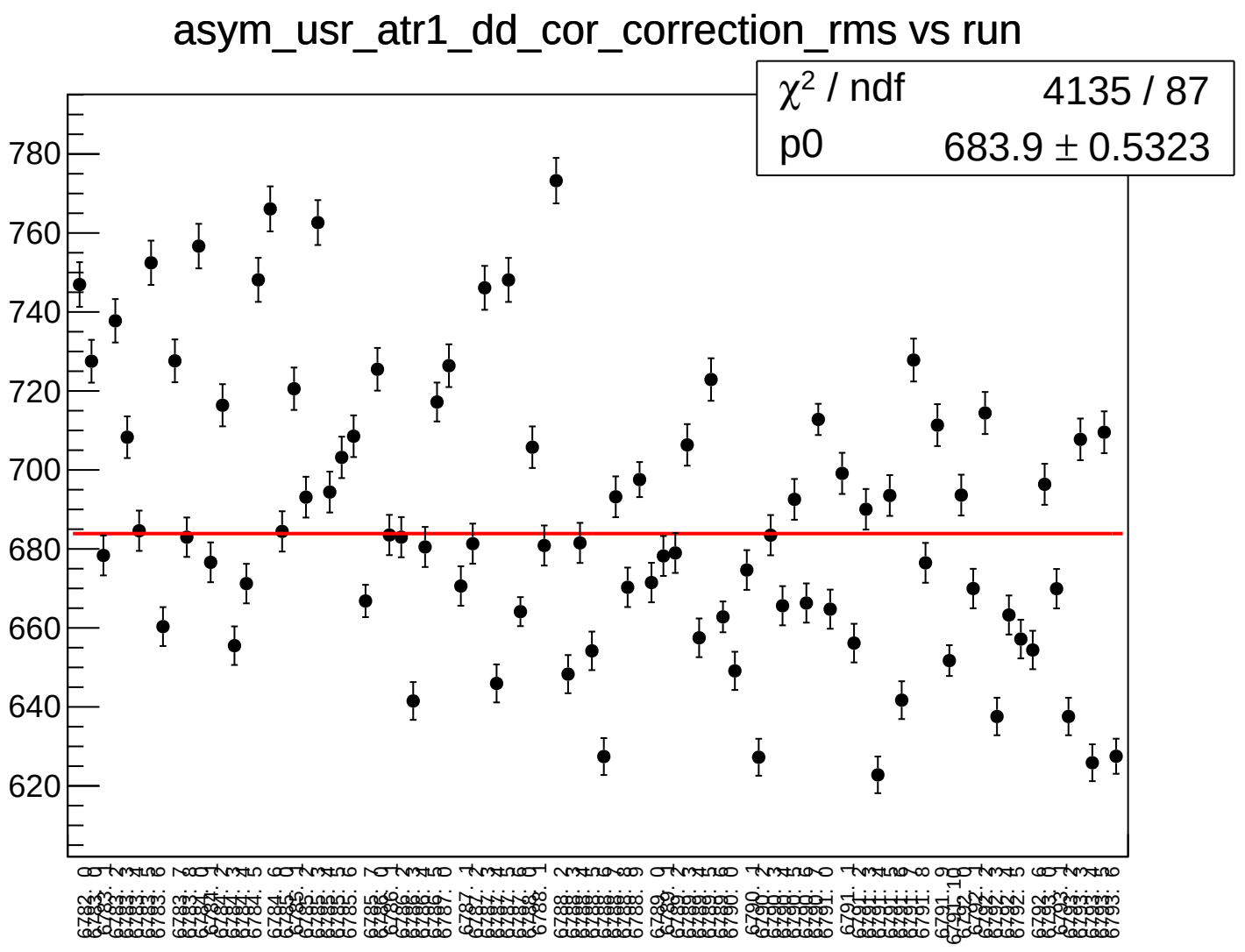

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.36 / 87
p0 1354 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −486.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

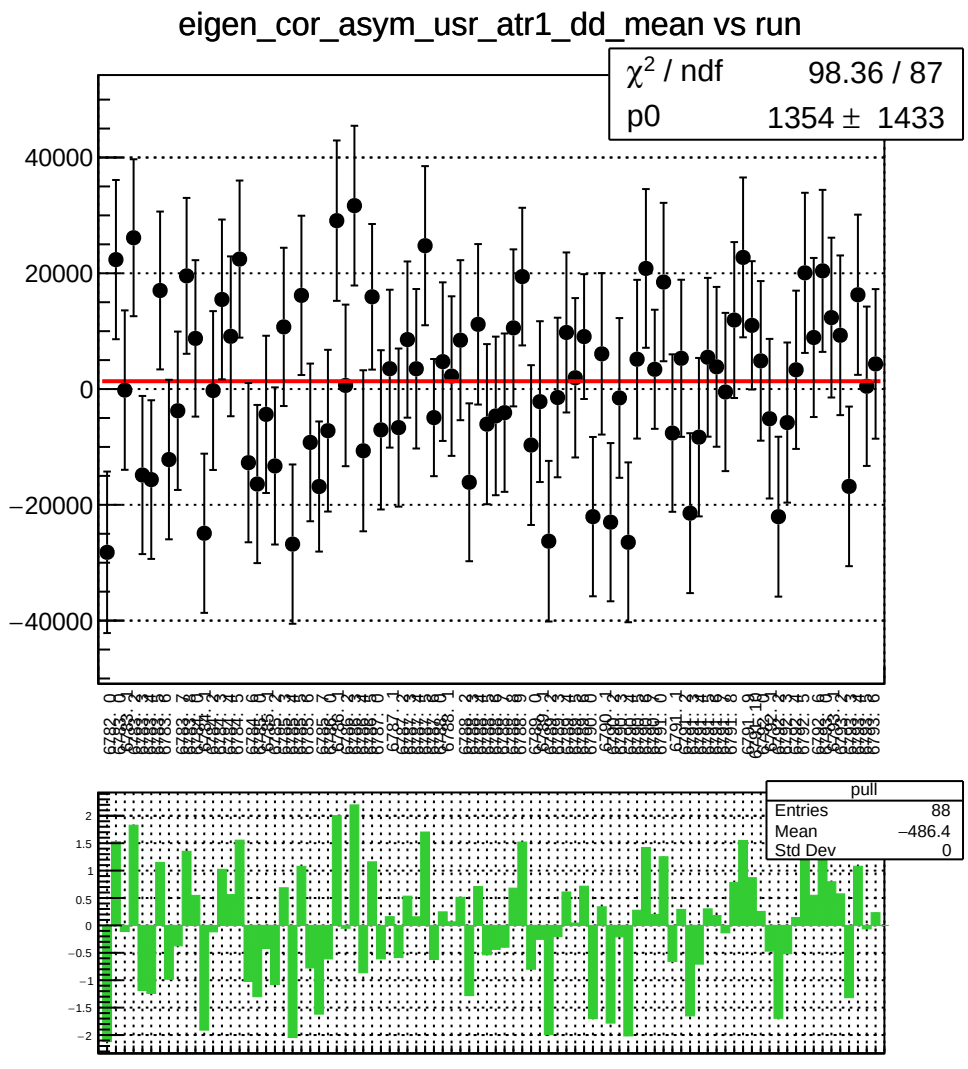

pull1D
Entries 88
Mean −0.003777
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

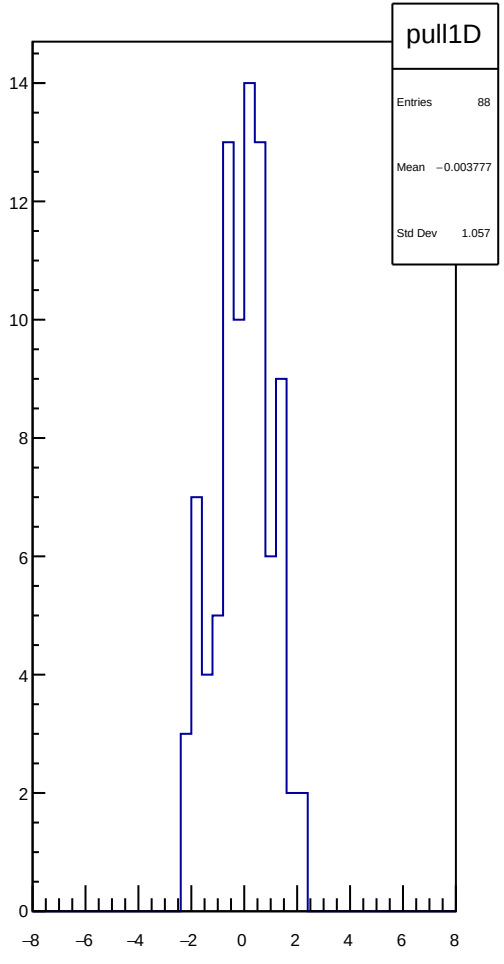

cor_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 99.62 / 87
p0 1303 ± 1.013
1340
1330
1320
1310
1300
1290
1280
1270

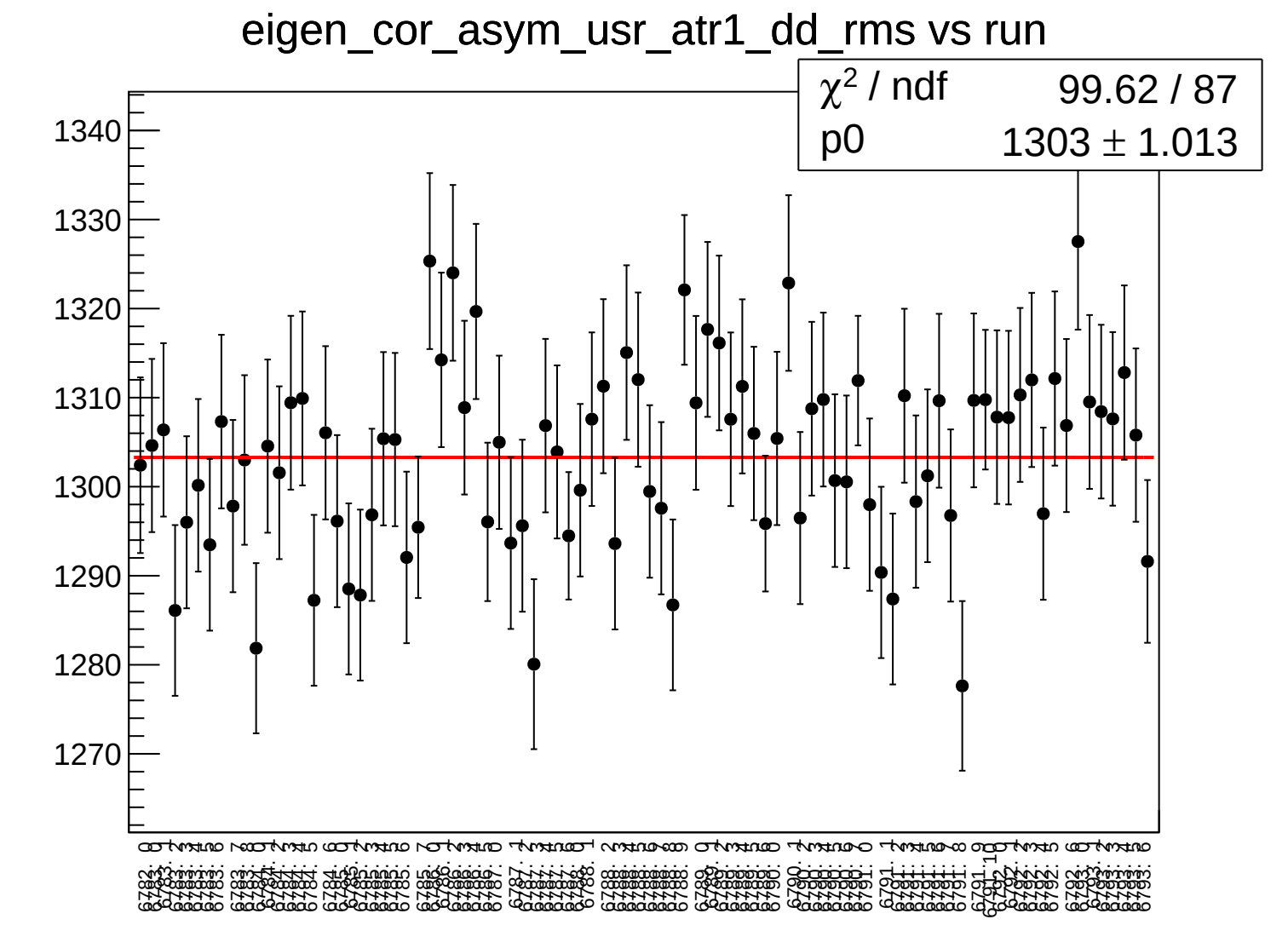

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 58.64 / 87
p0 1646 ± 752.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −222.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

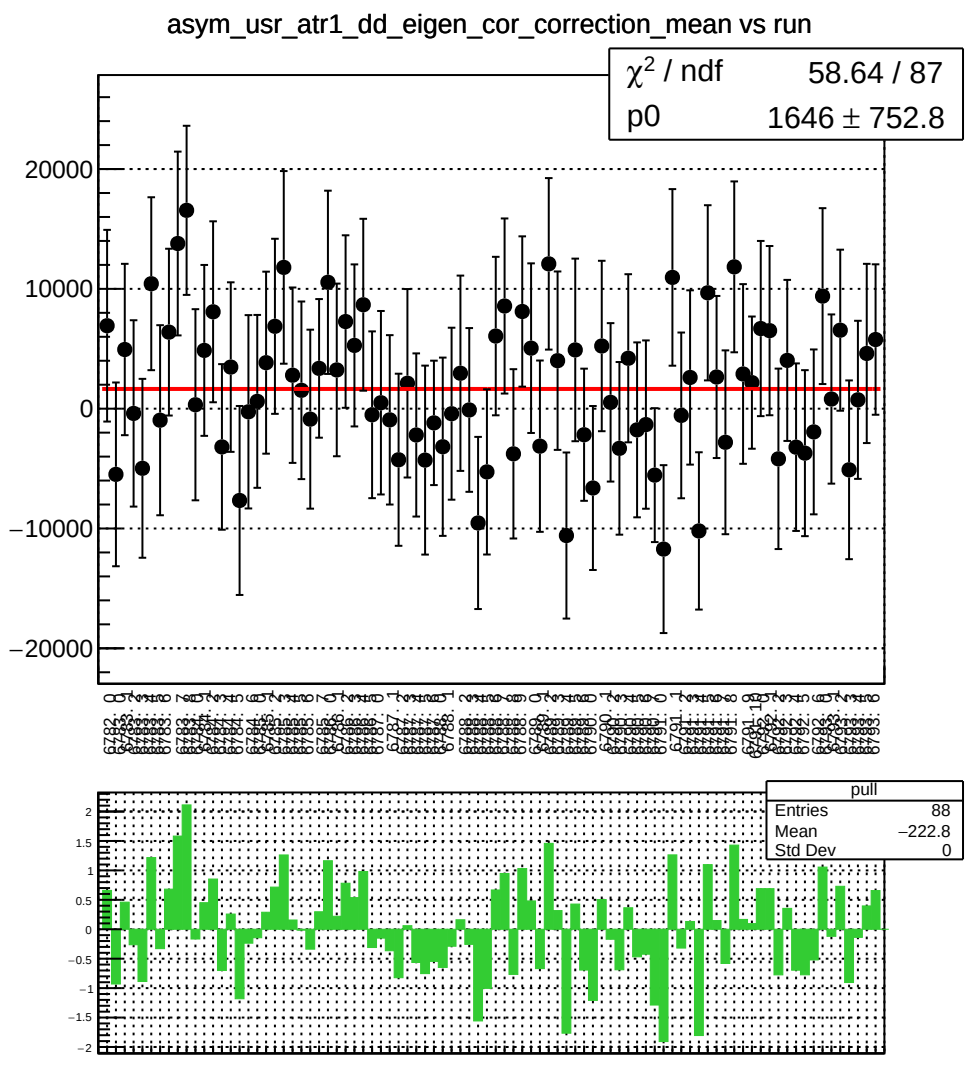

pull1D
Entries 88
Mean 0.009962
Std Dev 0.8163
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

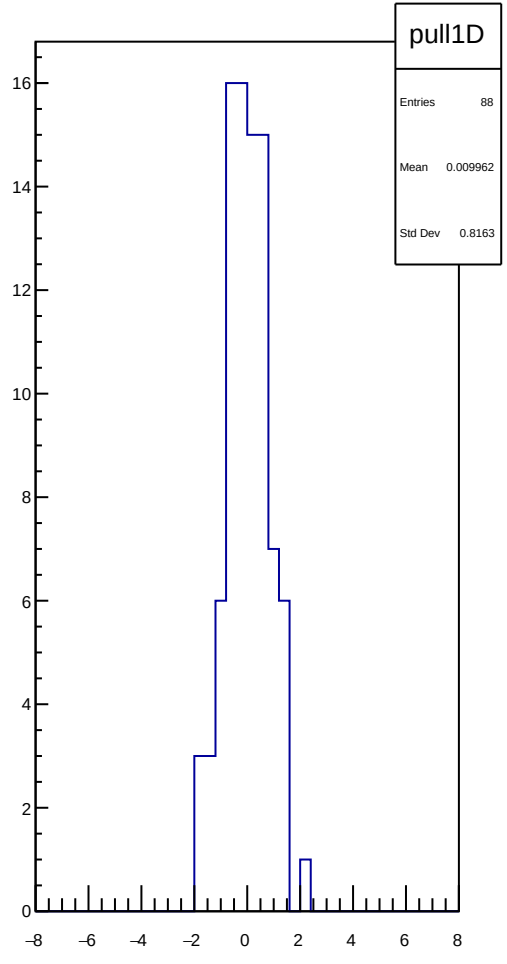

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4135 / 87
p0 683.9 ± 0.5323
780
760
740
720
700
680
660
640
620

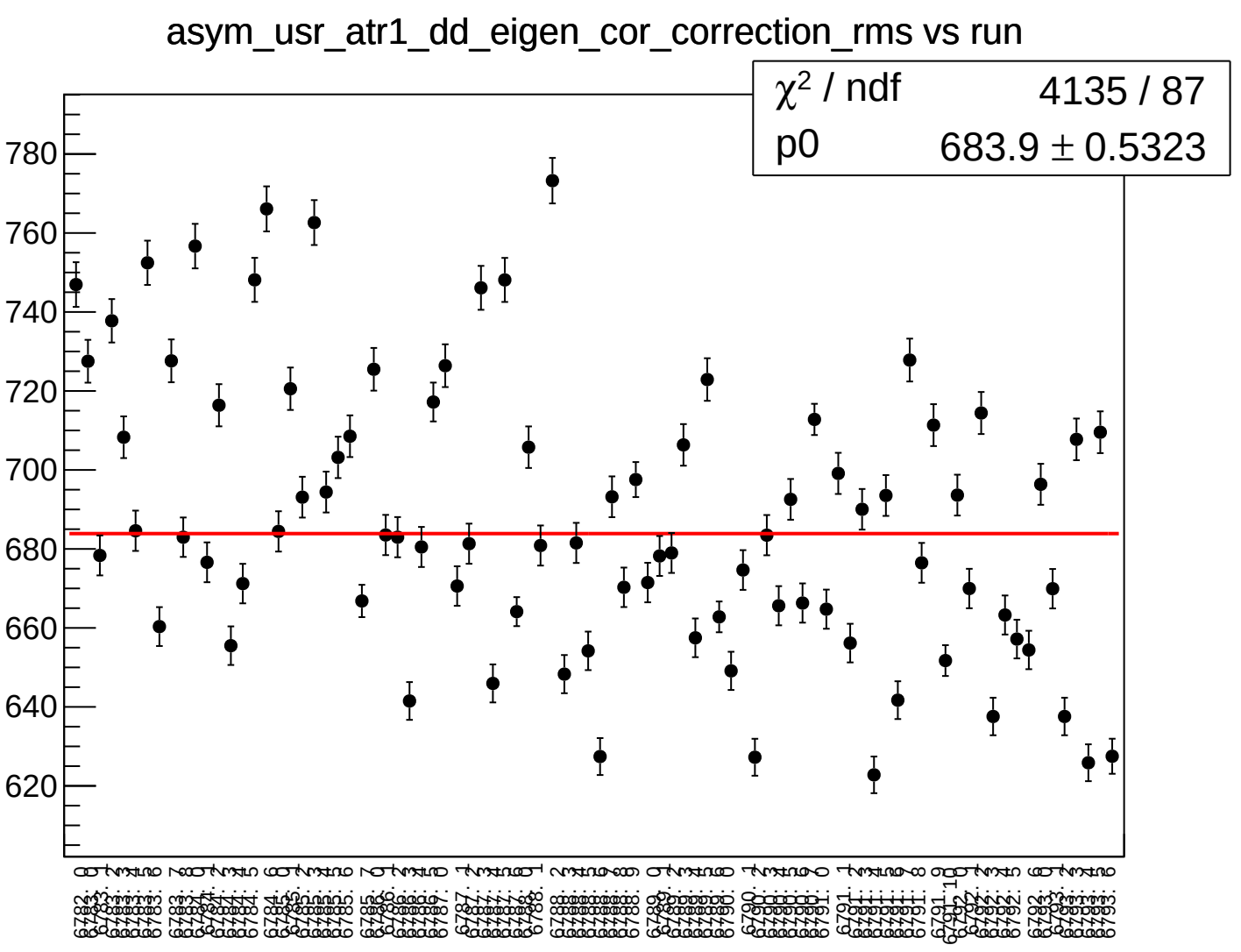

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.36 / 87
p0 1354 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −486.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

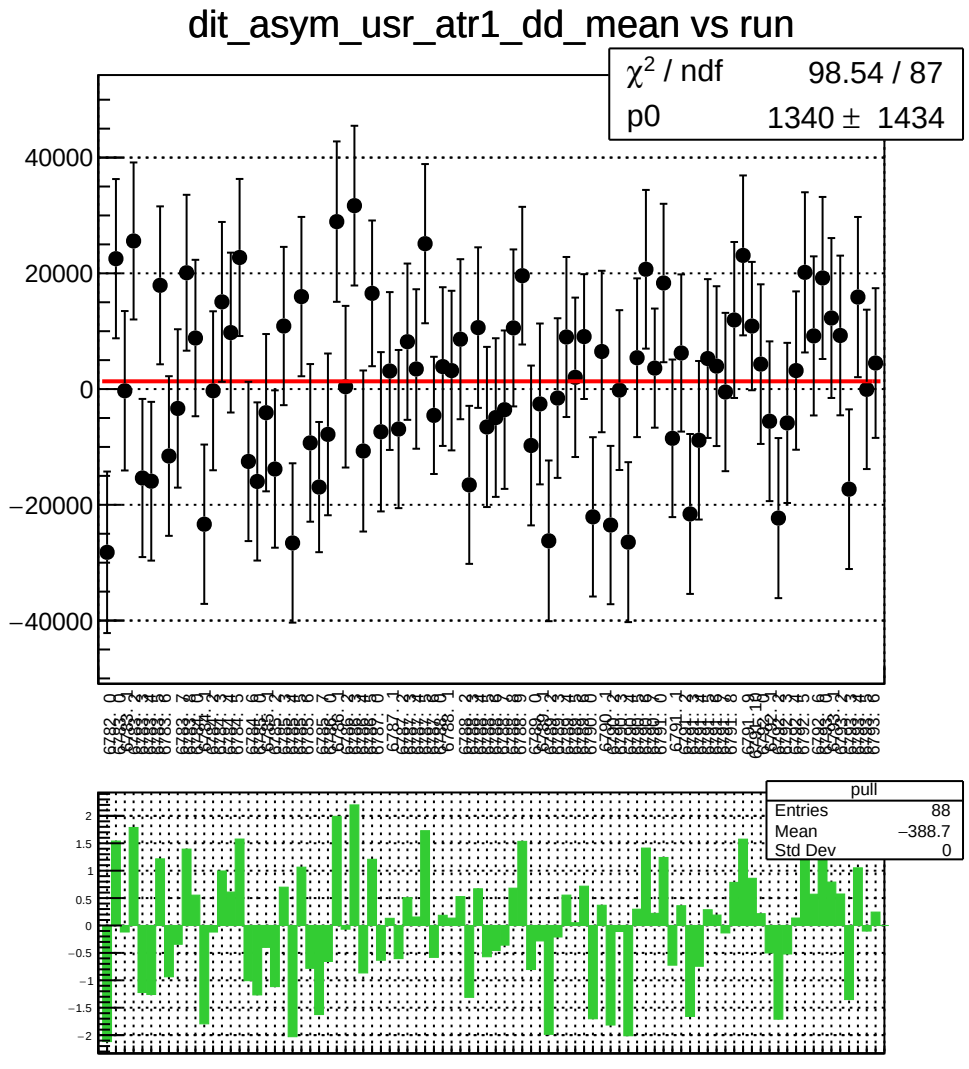

pull1D
Entries 88
Mean −0.003777
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

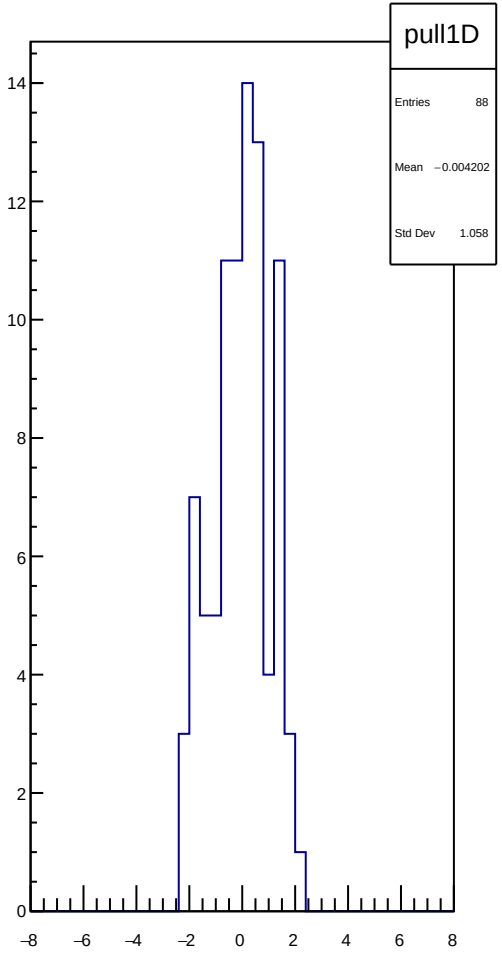

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 99.62 / 87
p0 1303 ± 1.013
1340
1330
1320
1310
1300
1290
1280
1270

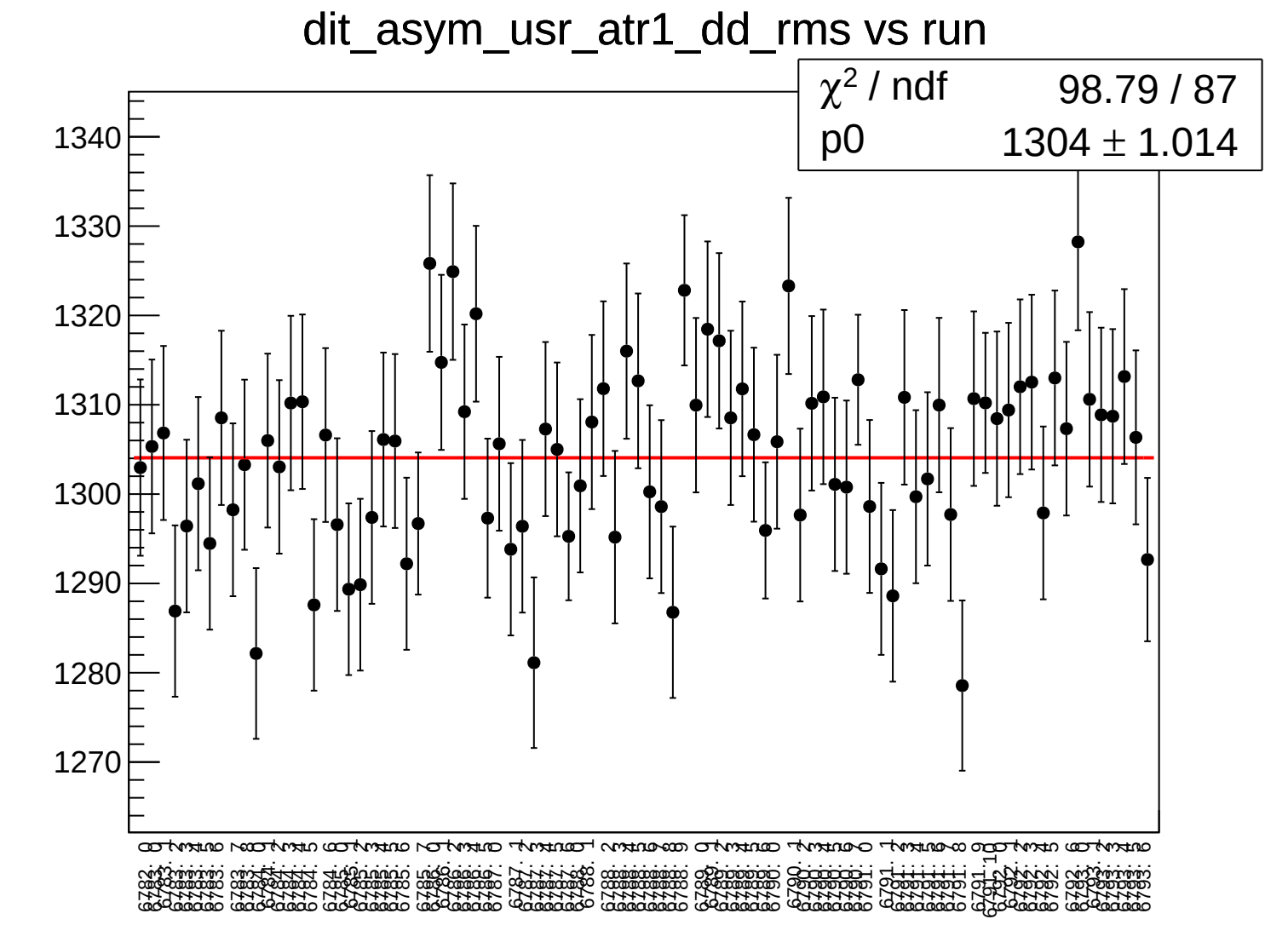

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 58.64 / 87
p0 1646 ± 752.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −222.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

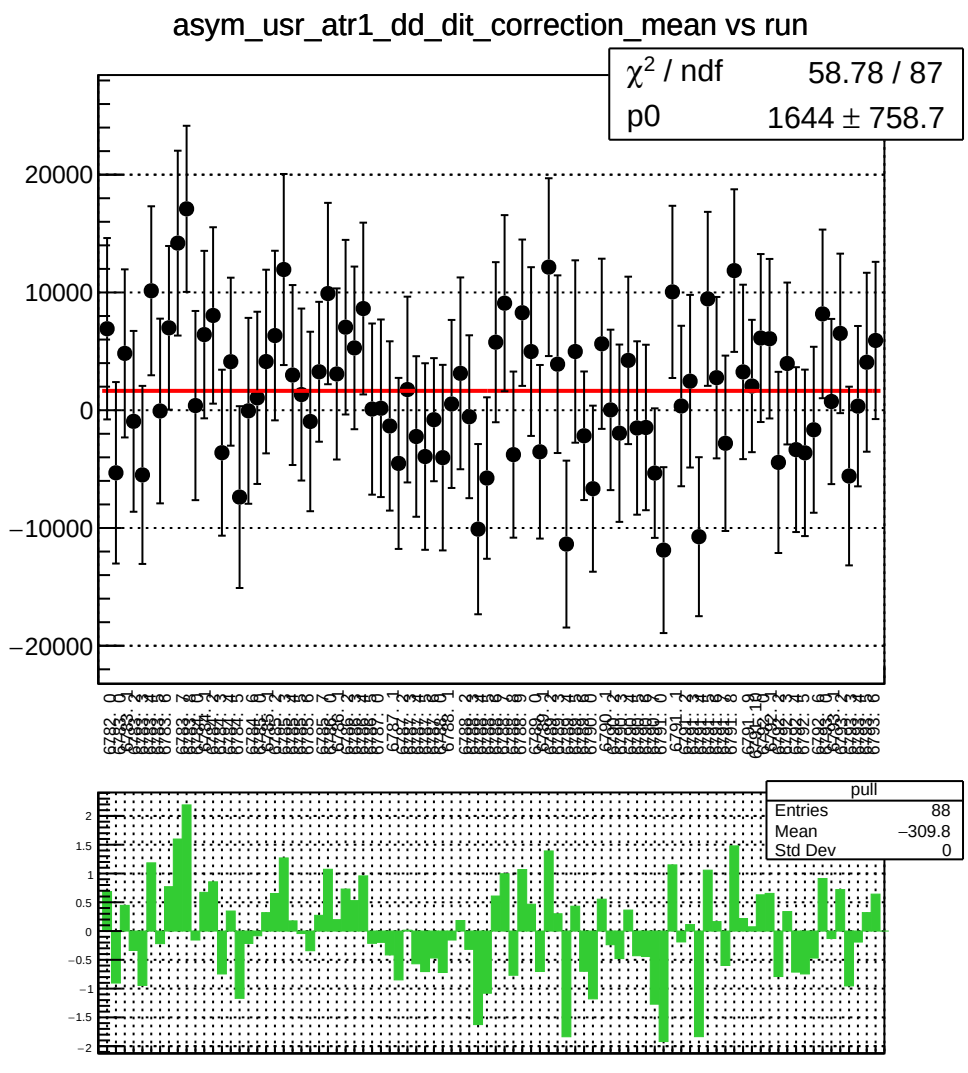

pull1D
Entries 88
Mean 0.009962
Std Dev 0.8163
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

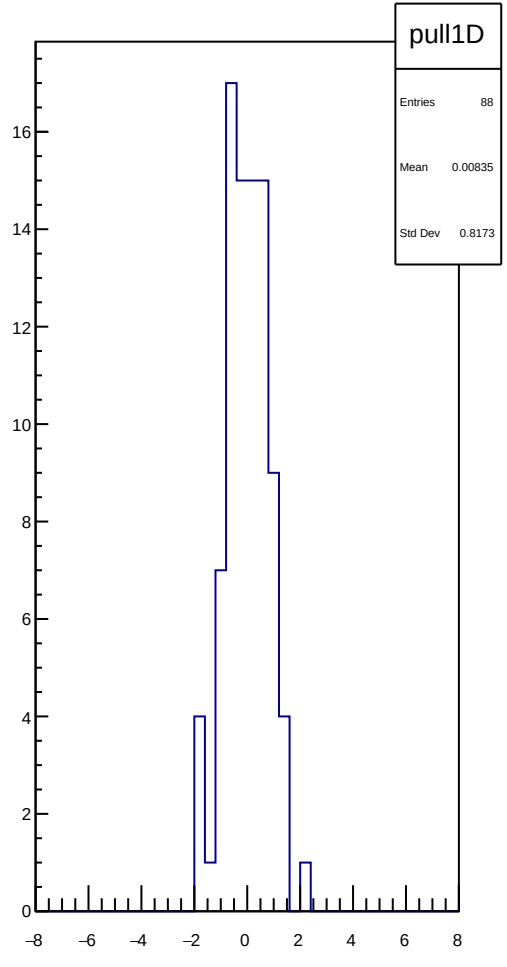

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4135 / 87
p0 683.9 ± 0.5323
780
760
740
720
700
680
660
640
620

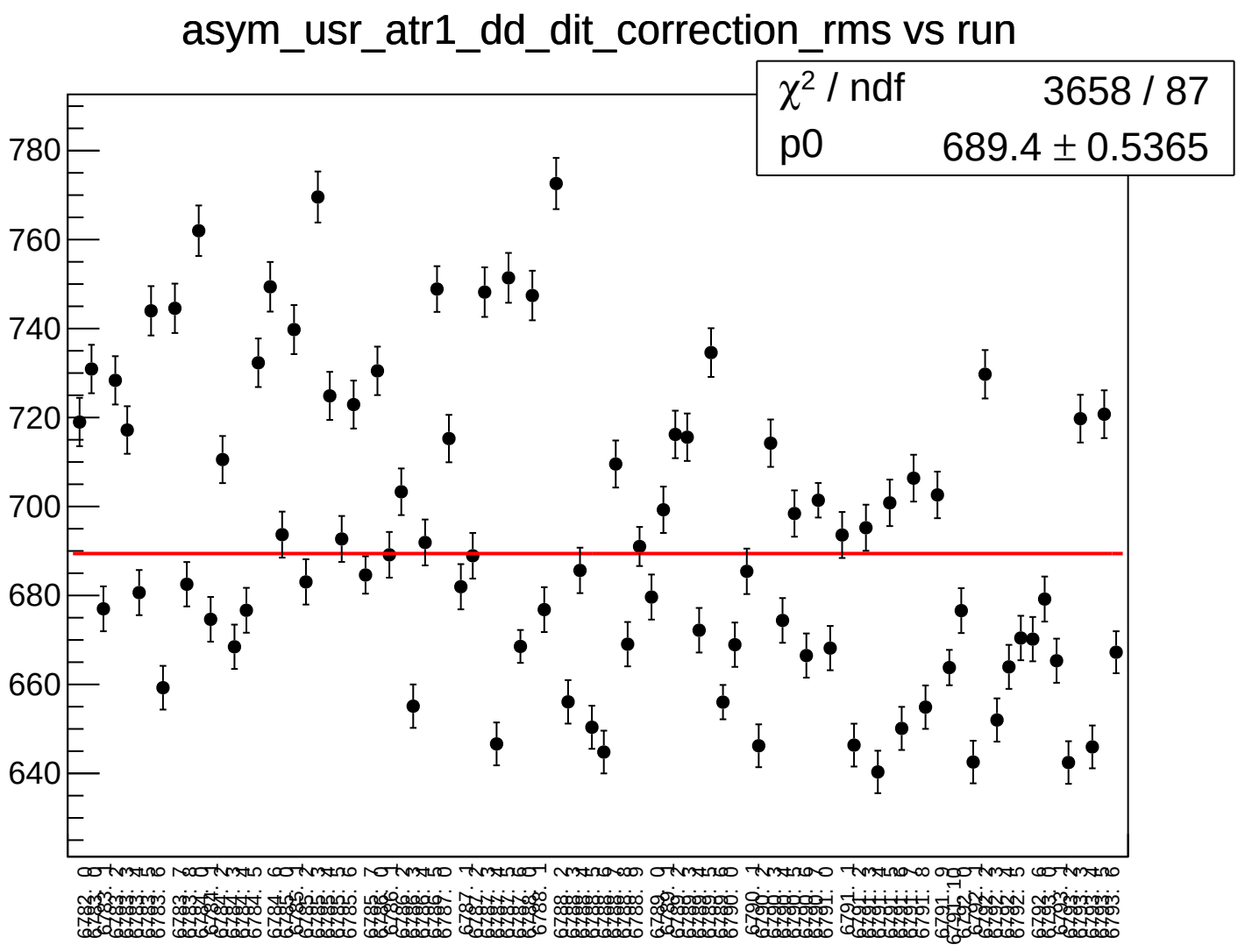

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.54 / 87
p0 1340 ± 1434
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −388.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

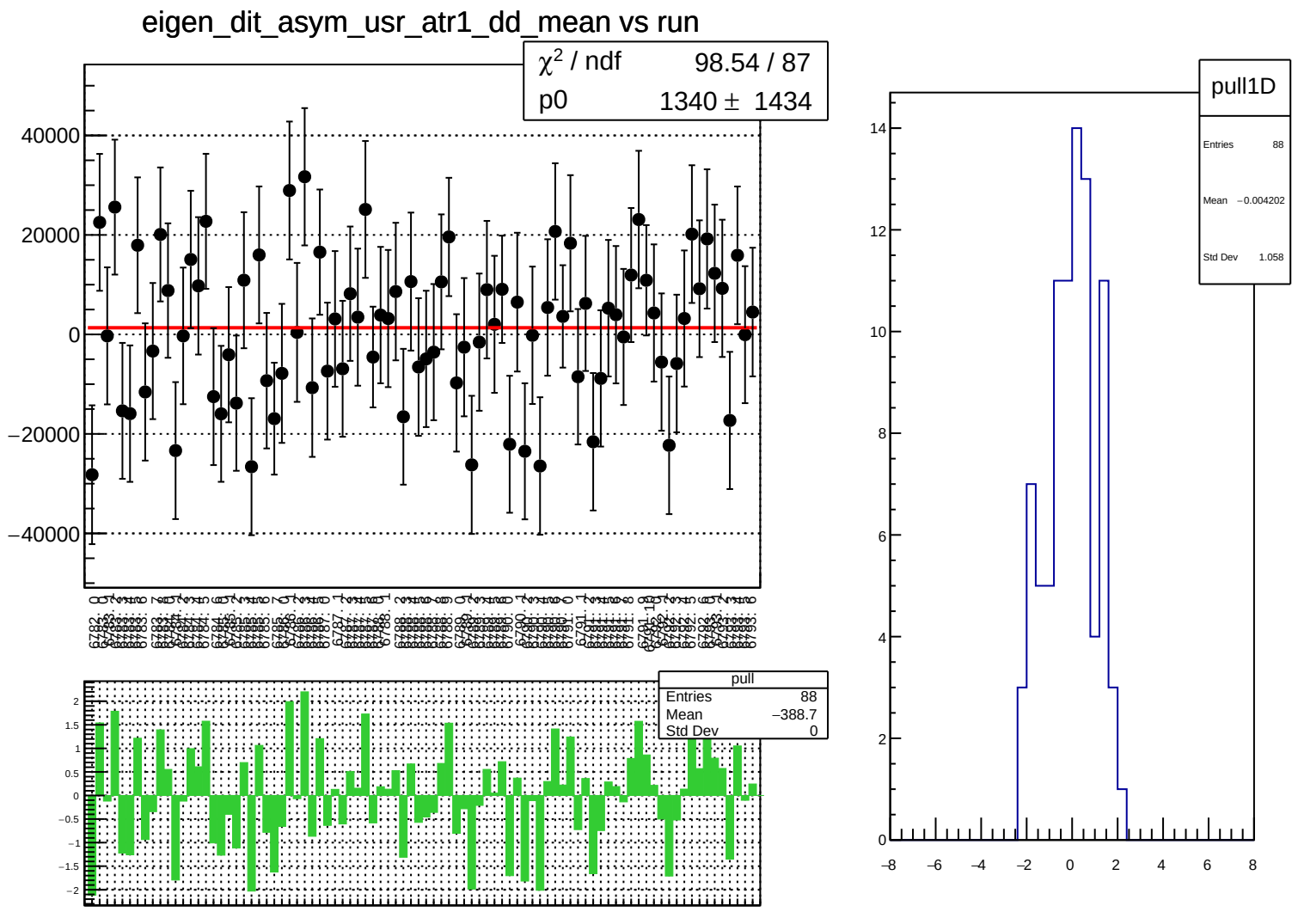

pull1D
Entries 88
Mean −0.004202
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

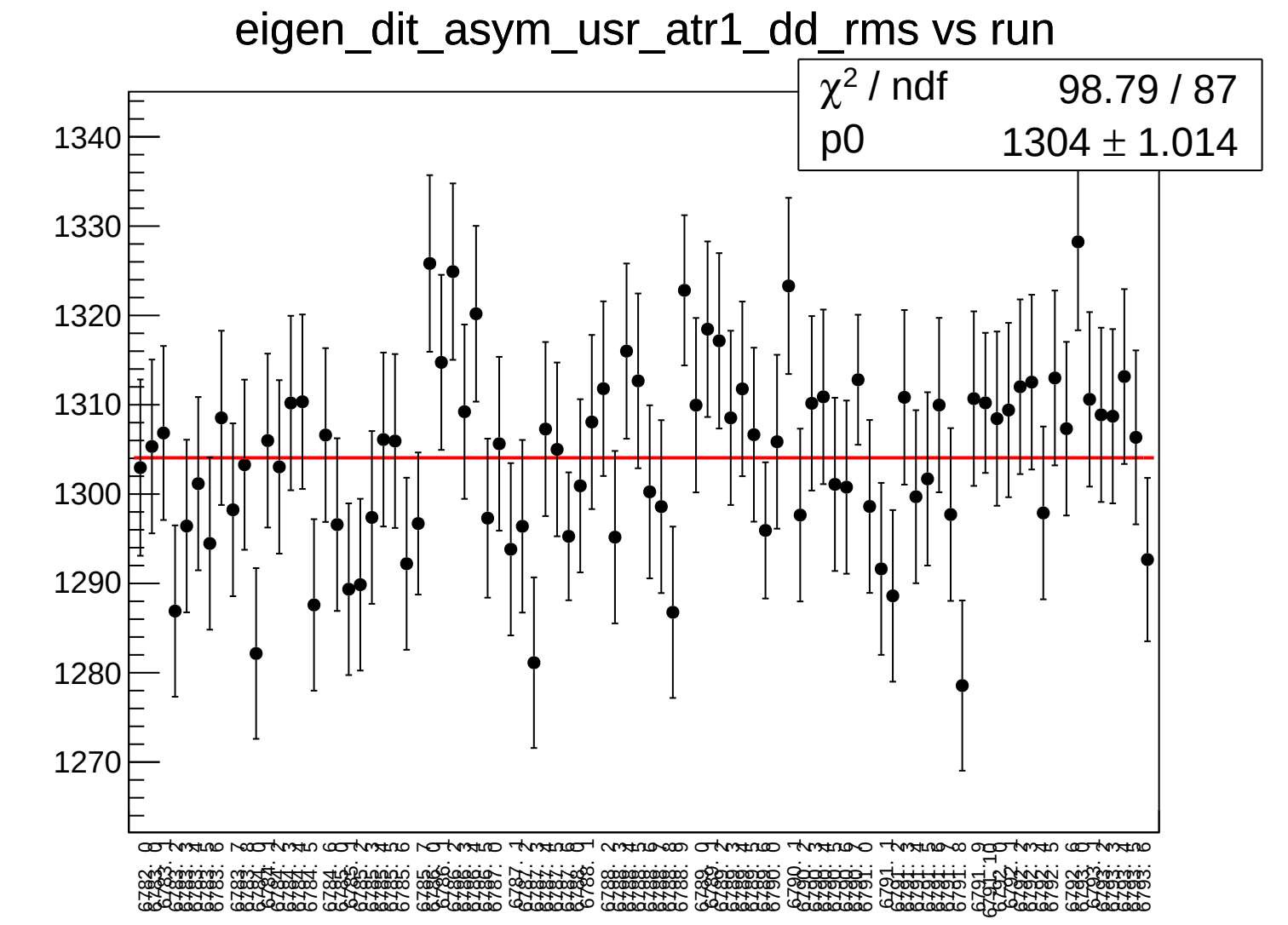

dit_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 98.79 / 87
p0 1304 ± 1.014
1340
1330
1320
1310
1300
1290
1280
1270

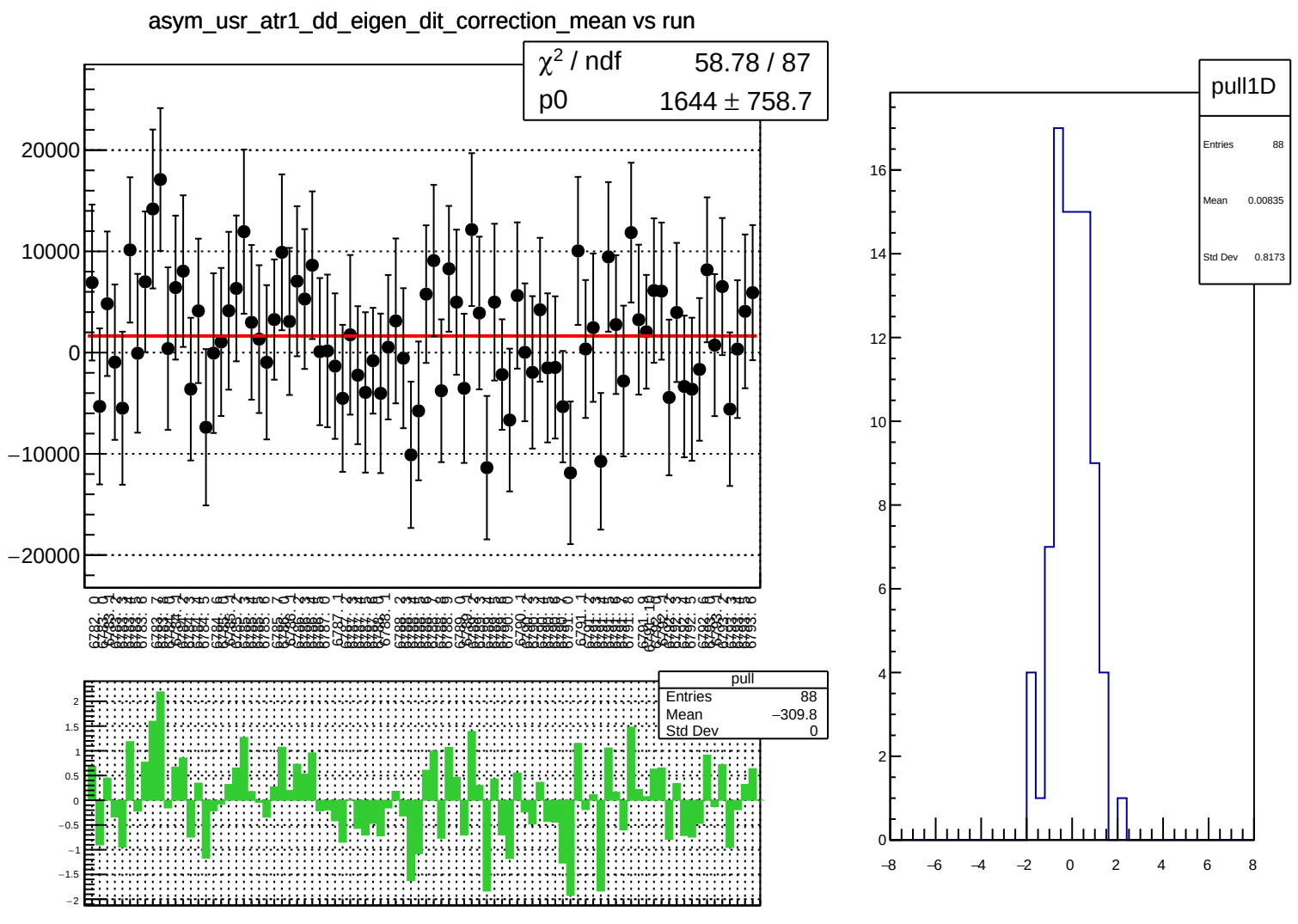

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 58.78 / 87
p0 1644 ± 758.7
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −309.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

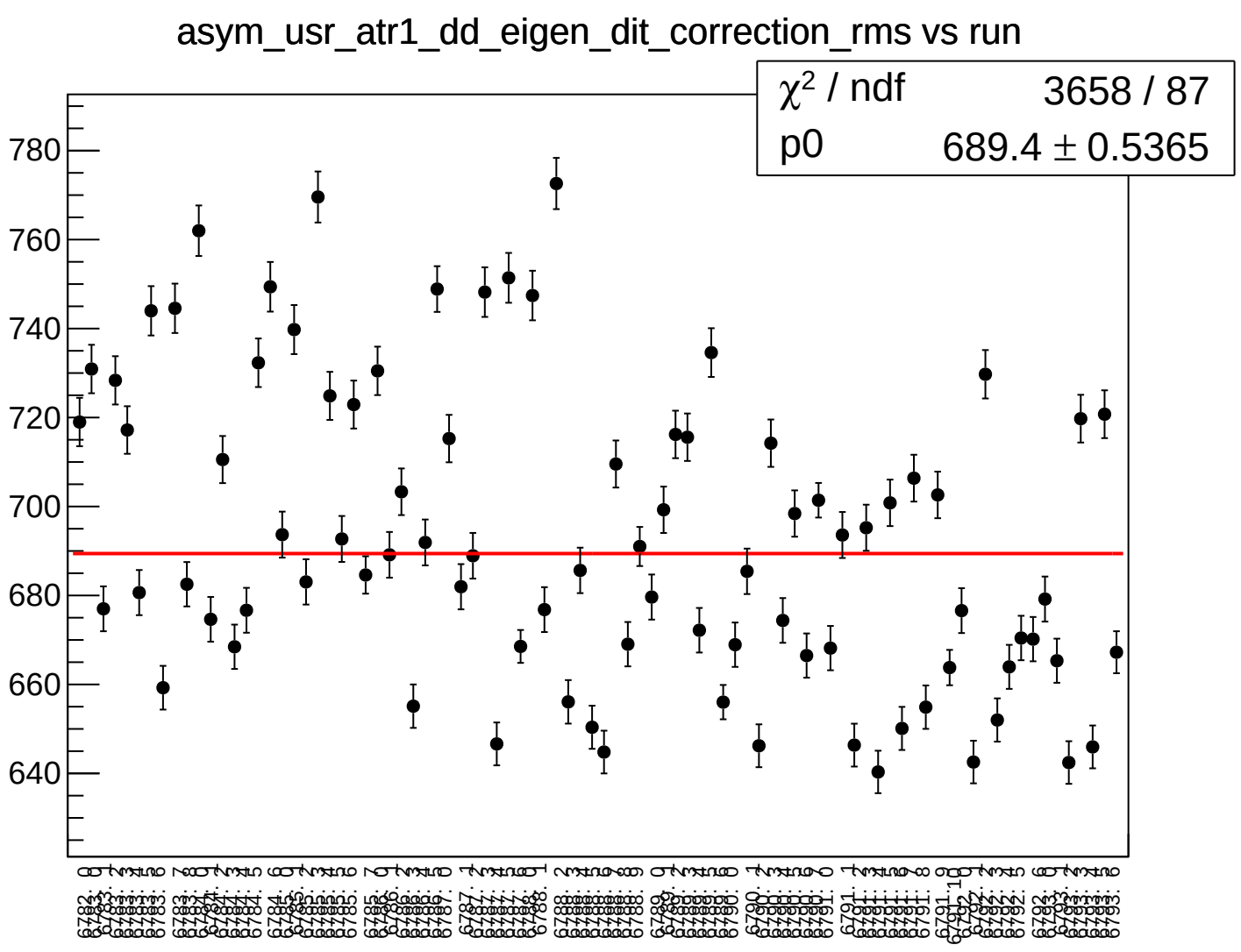

pull1D
Entries 88
Mean 0.00835
Std Dev 0.8173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

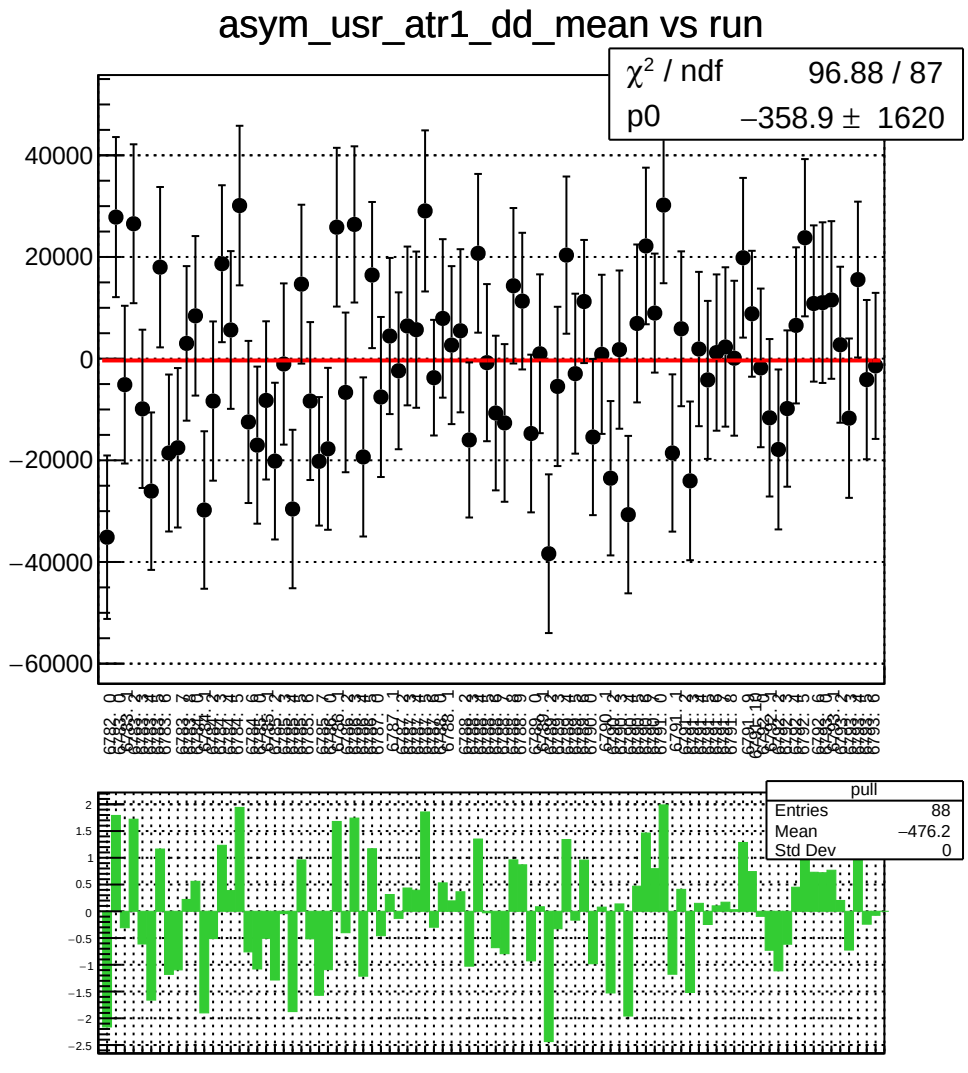

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 3658 / 87
p0 689.4 ± 0.5365
780
760
740
720
700
680
660
640

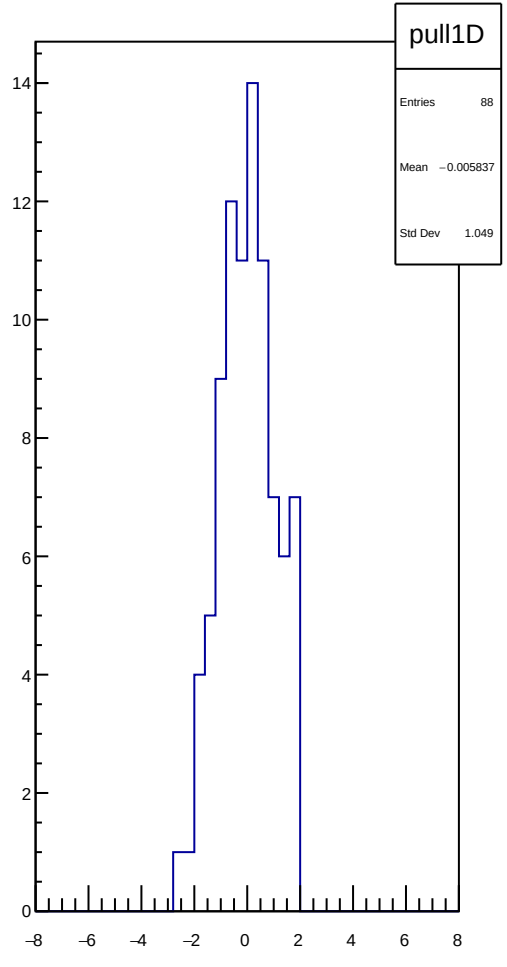

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.54 / 87
p0 1340 ± 1434
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −388.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.004202
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

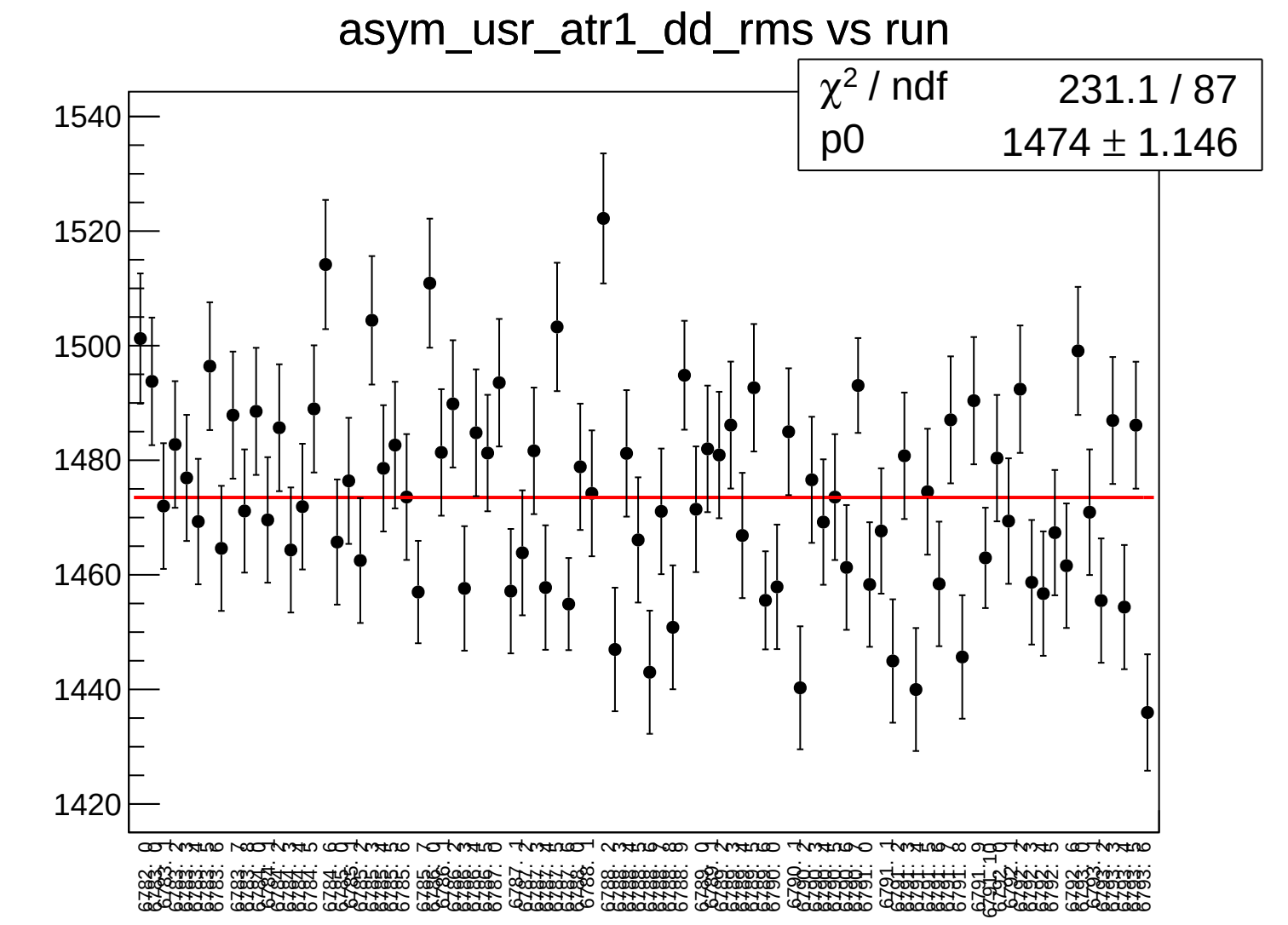

eigen_dit_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 98.79 / 87
p0 1304 ± 1.014
1340
1330
1320
1310
1300
1290
1280
1270

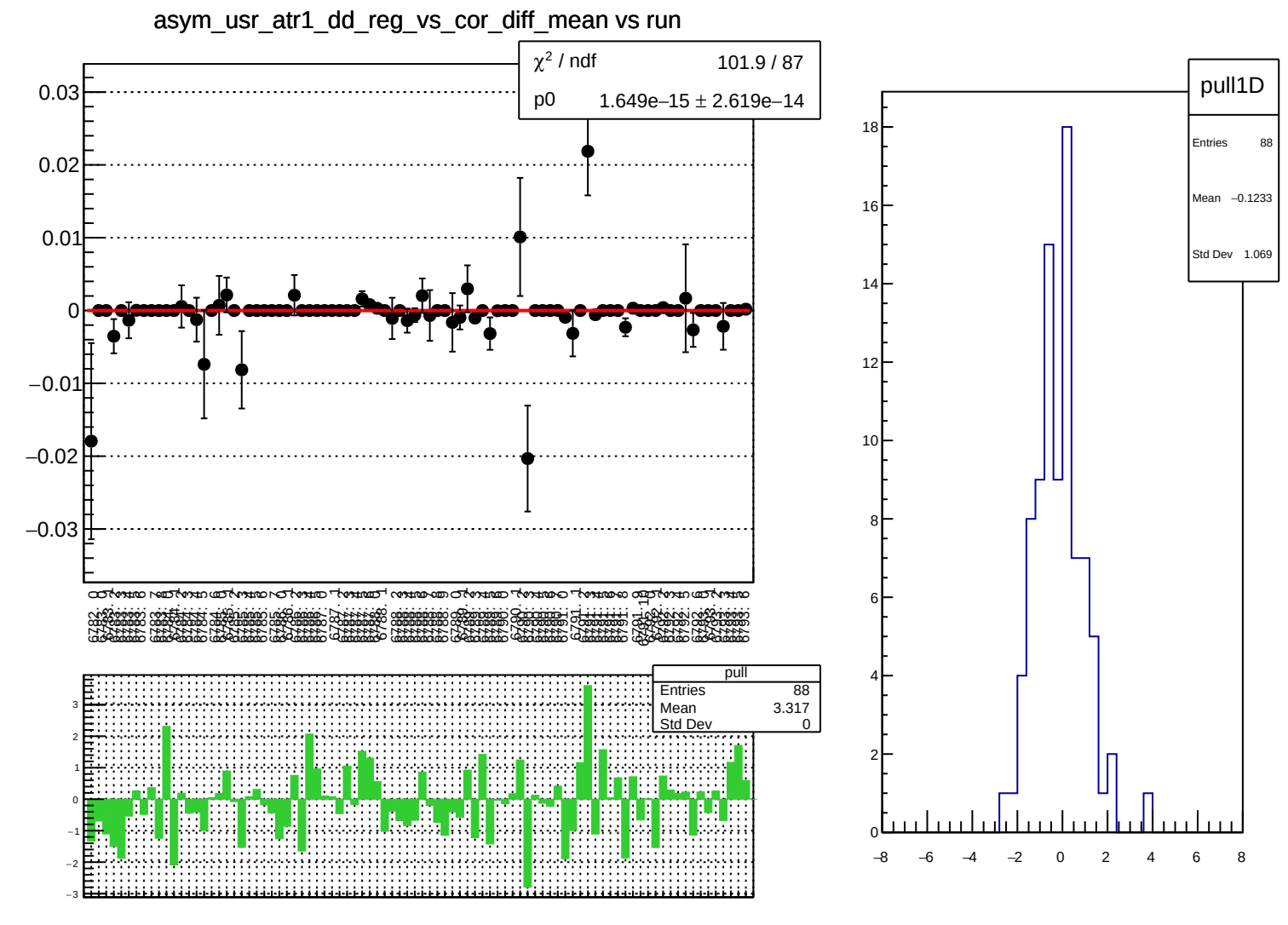

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.78 / 87
p0 1644 ± 758.7
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −309.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.00835
Std Dev 0.8173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

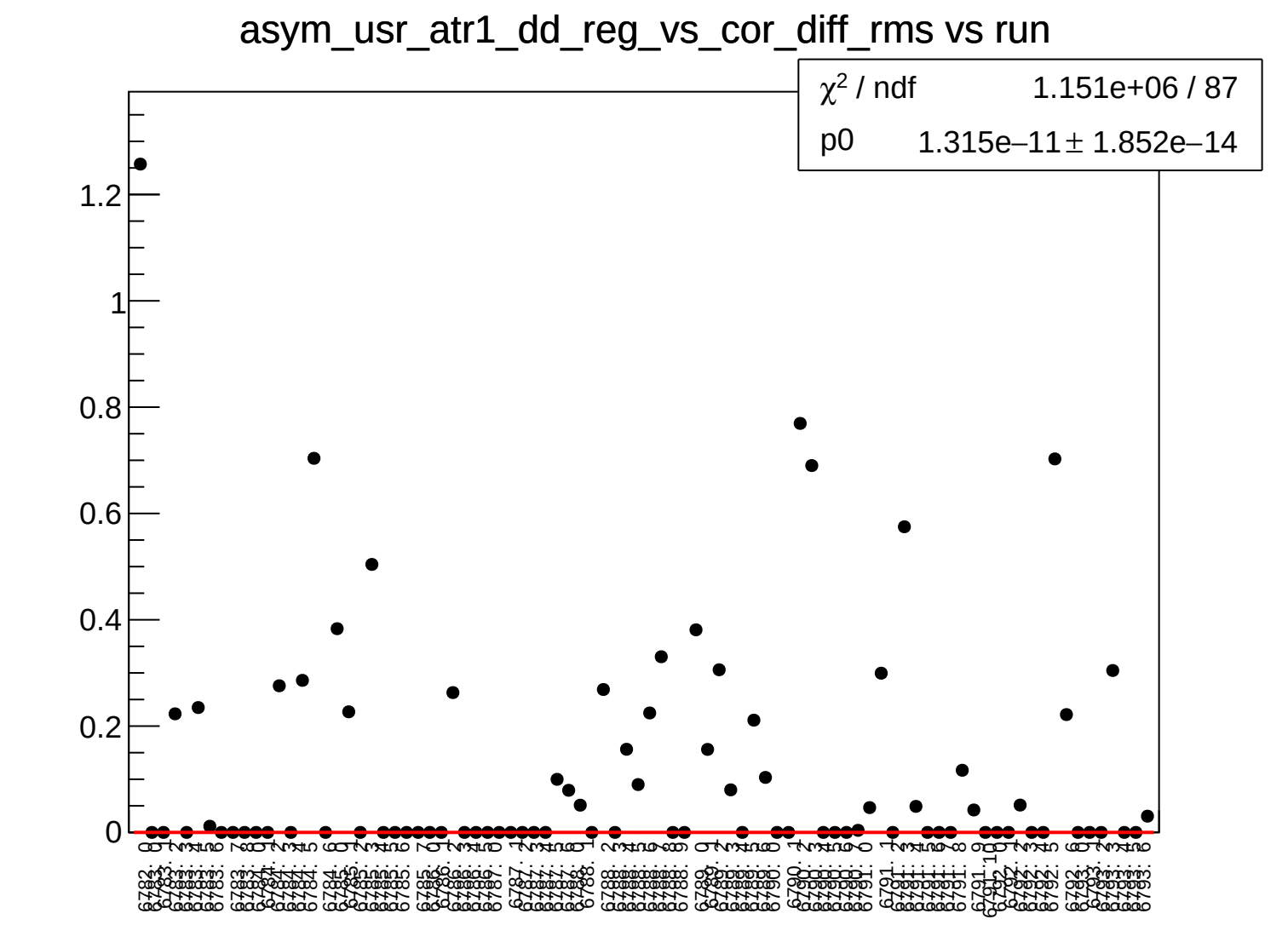

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3658 / 87
p0 689.4 ± 0.5365
780
760
740
720
700
680
660
640

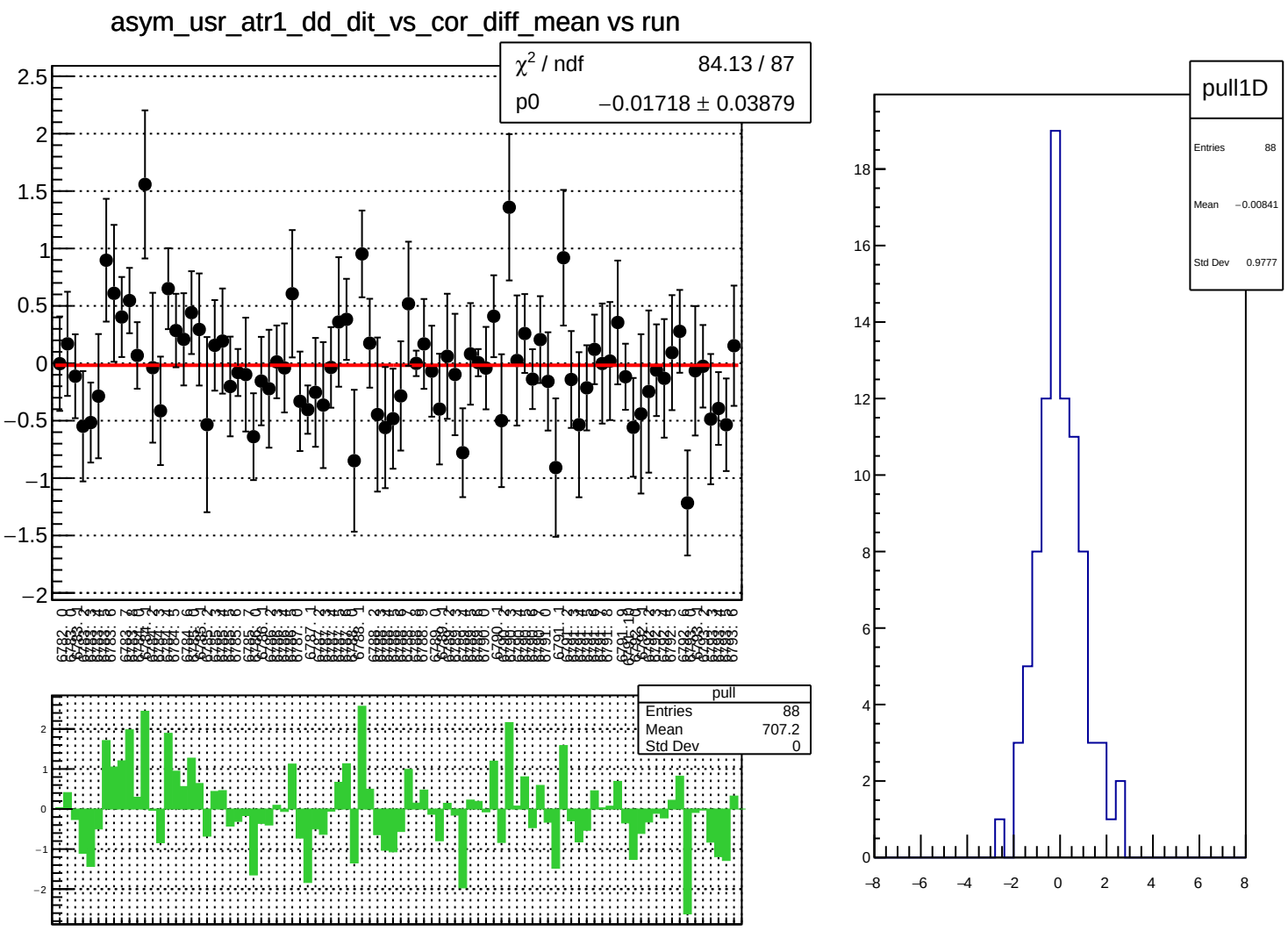

asym_usr_atr1_dd_mean vs run
χ² / ndf 96.88 / 87
p0 −358.9 ± 1620
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −476.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

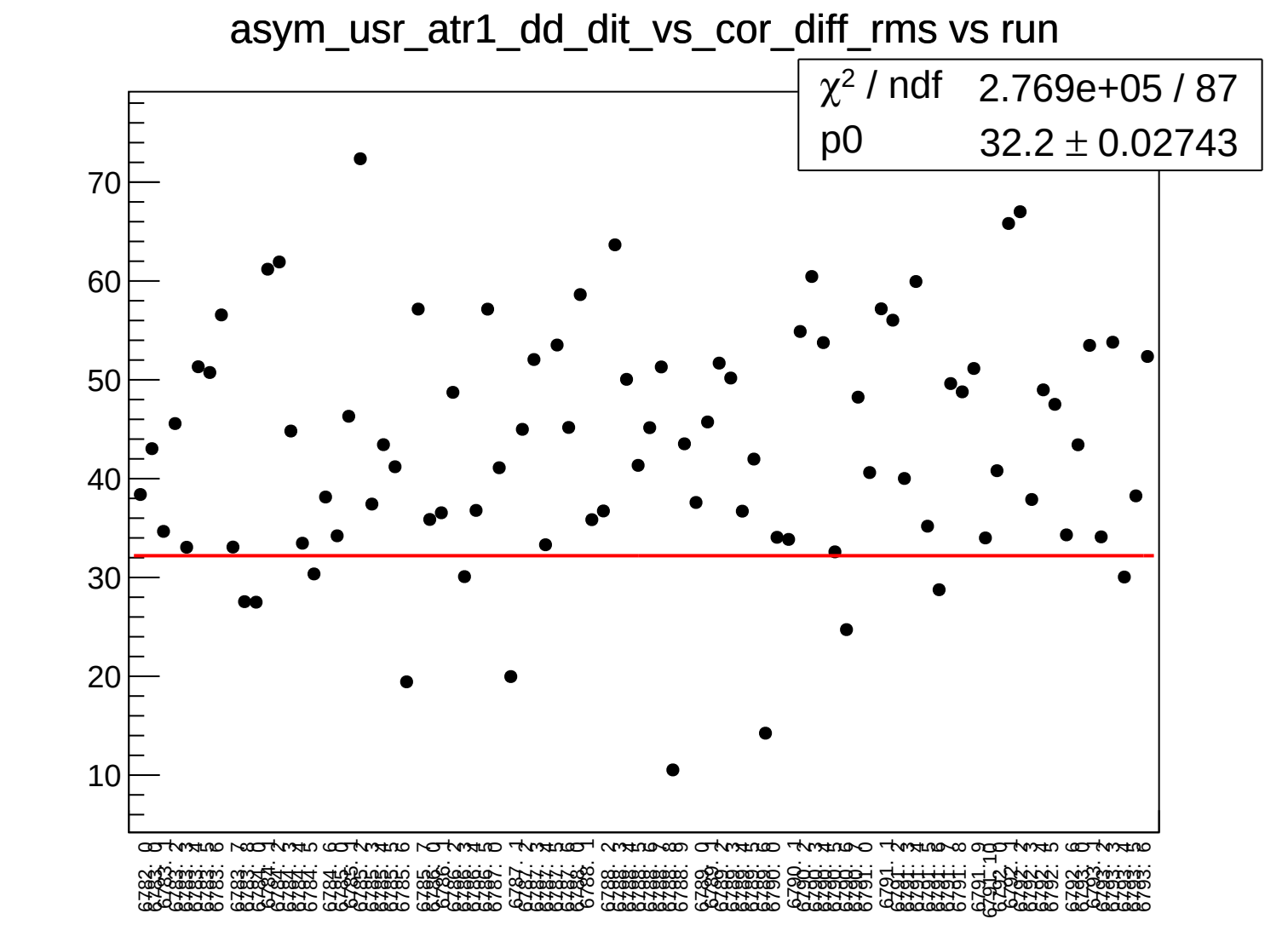

pull1D
Entries 88
Mean −0.005837
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

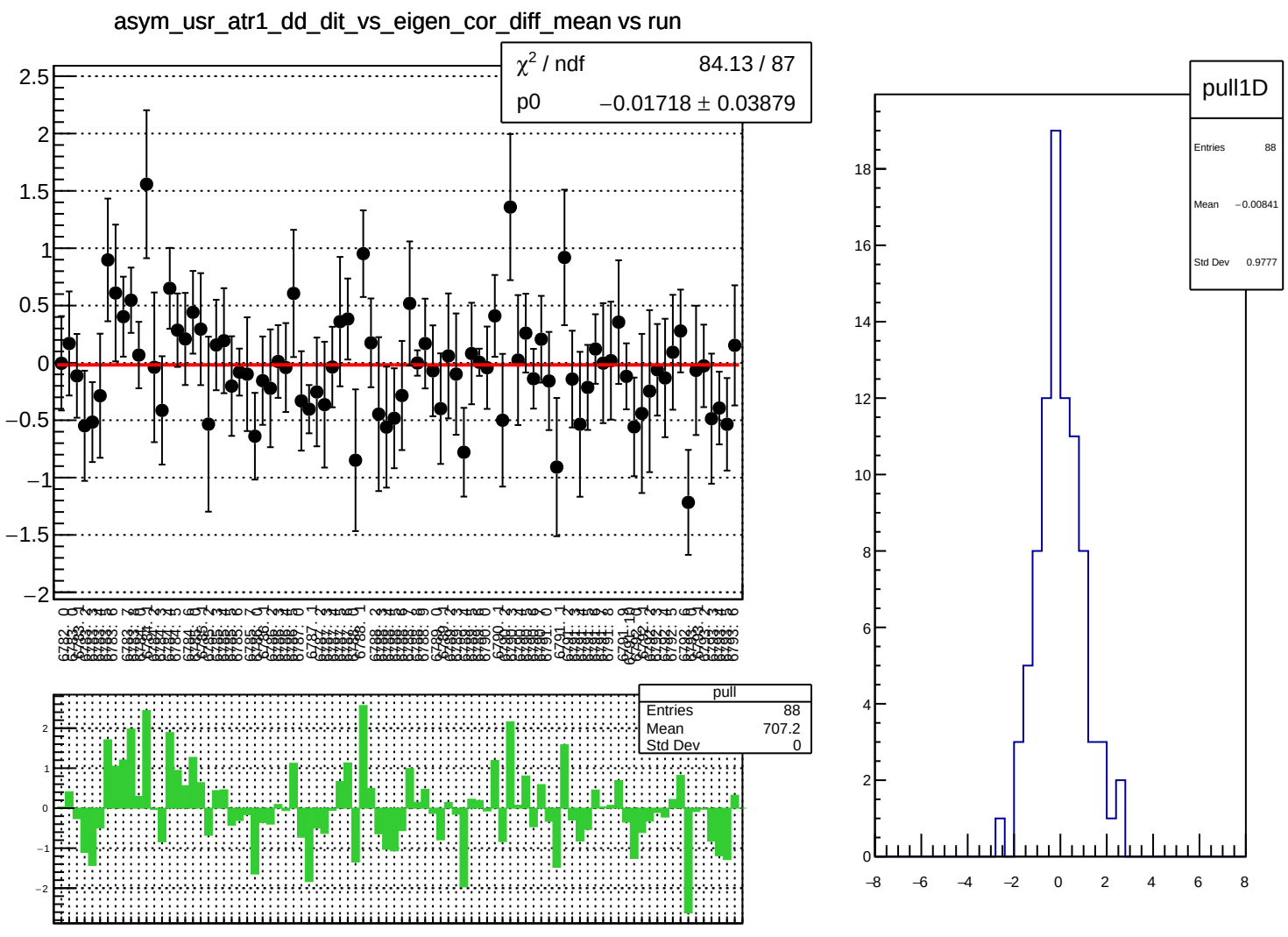

asym_usr_atr1_dd_rms vs run
χ^2 / ndf 231.1 / 87
p0 1474 ± 1.146
1540
1520
1500
1480
1460
1440
1420

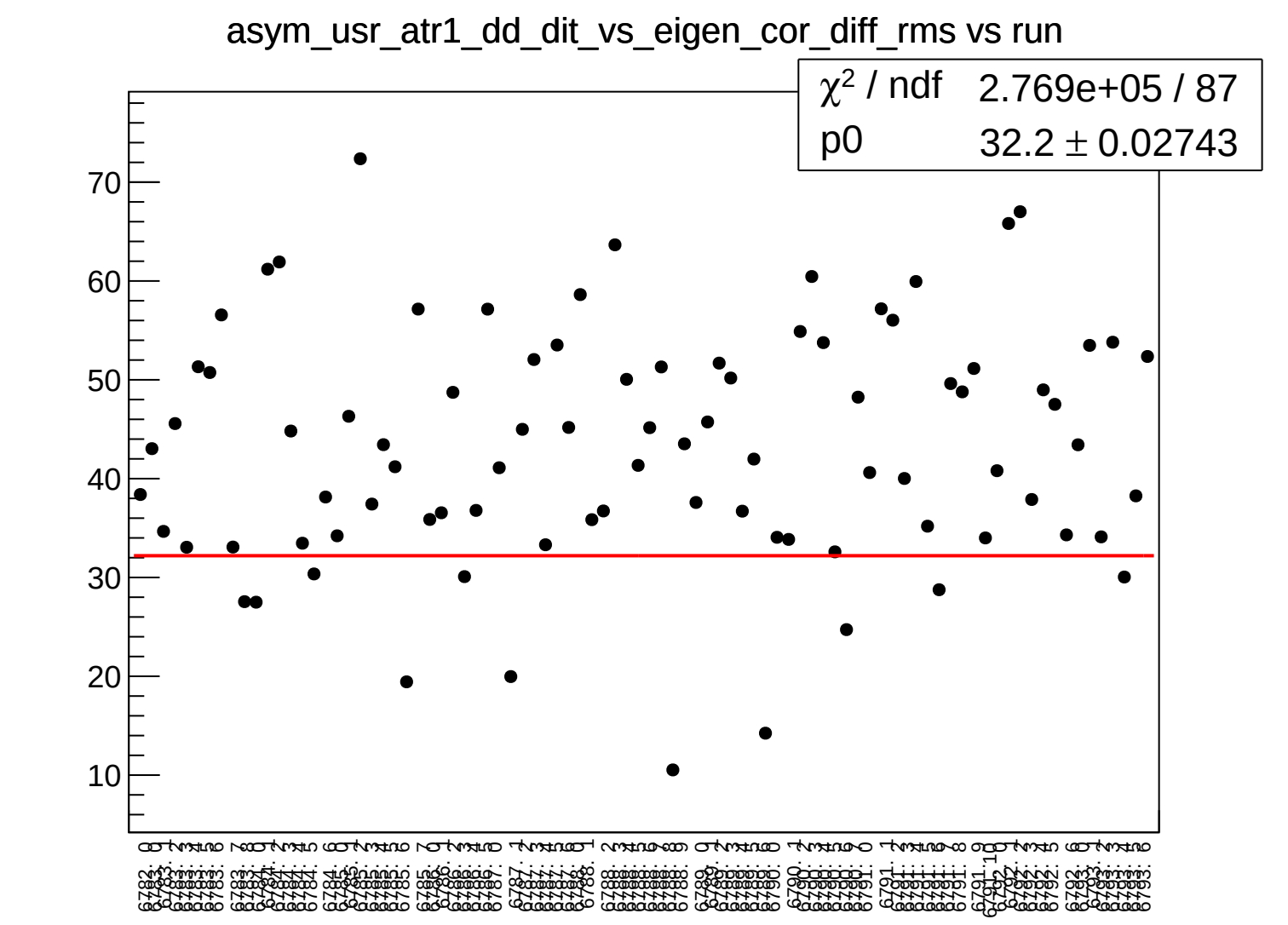

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 87
p0 1.649e−15 ± 2.619e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 3.317
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1233
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

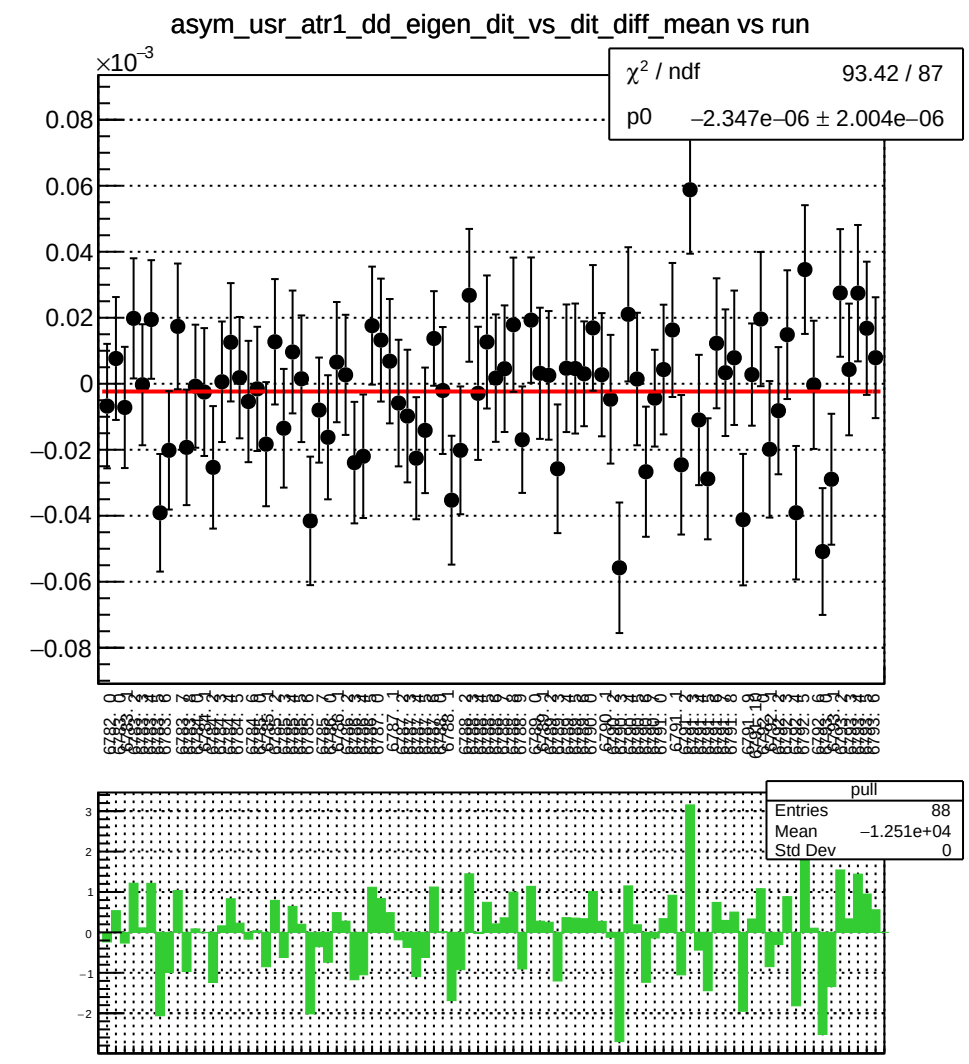

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 87
p0 1.315e−11 ± 1.852e−14
1.2
1
0.8
0.6
0.4
0.2
0

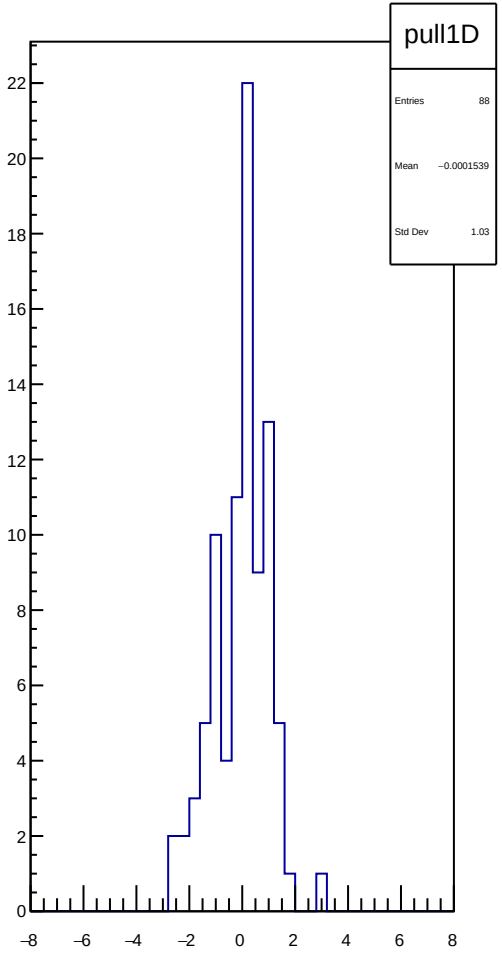

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 87
p0 −0.01718 ± 0.03879
pull
Entries 88
Mean 707.2
Std Dev 0
pull1D
Entries 88
Mean −0.00841
Std Dev 0.9777

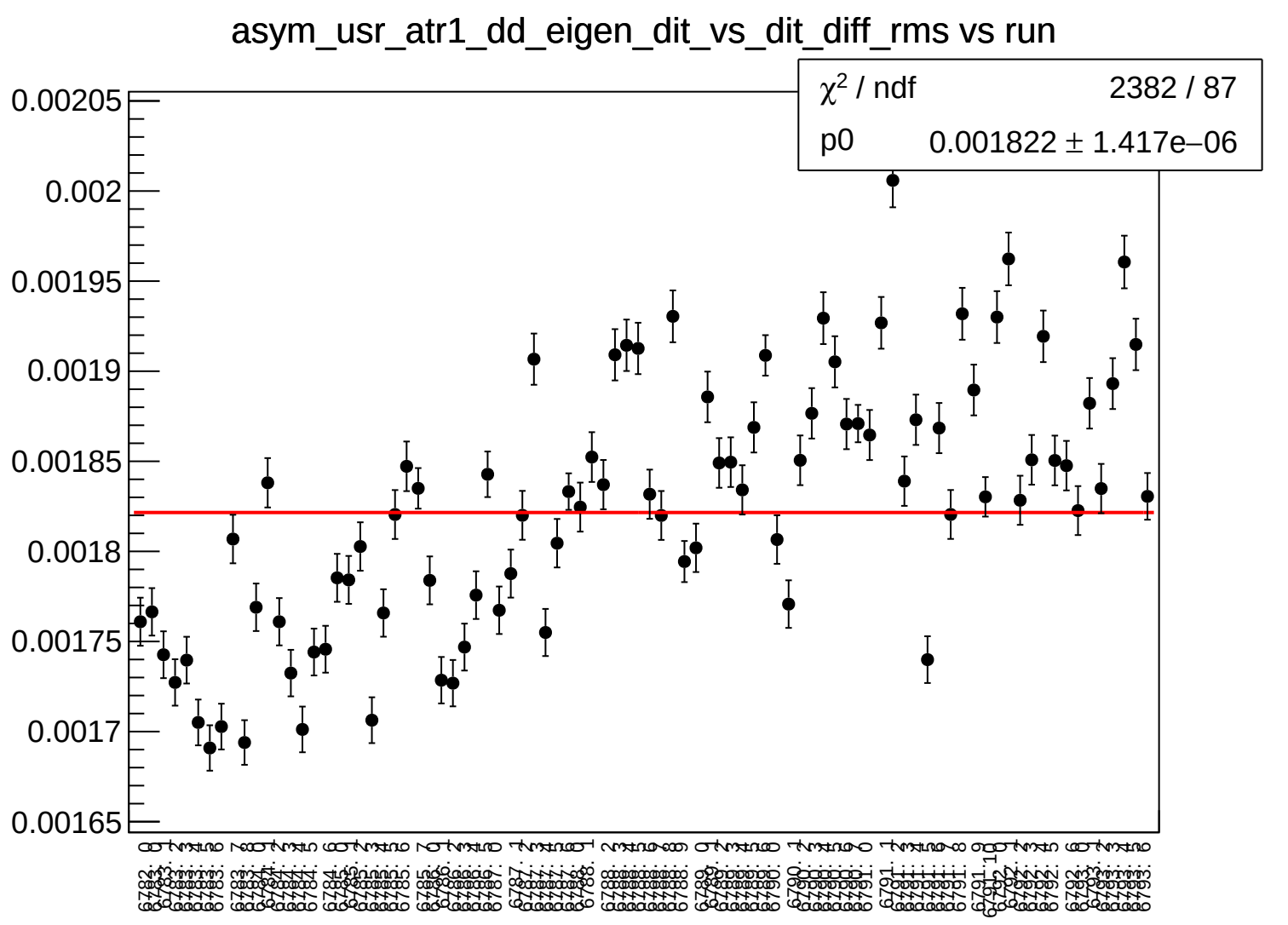

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.769e+05 / 87
p0 32.2 ± 0.02743
70
60
50
40
30
20
10

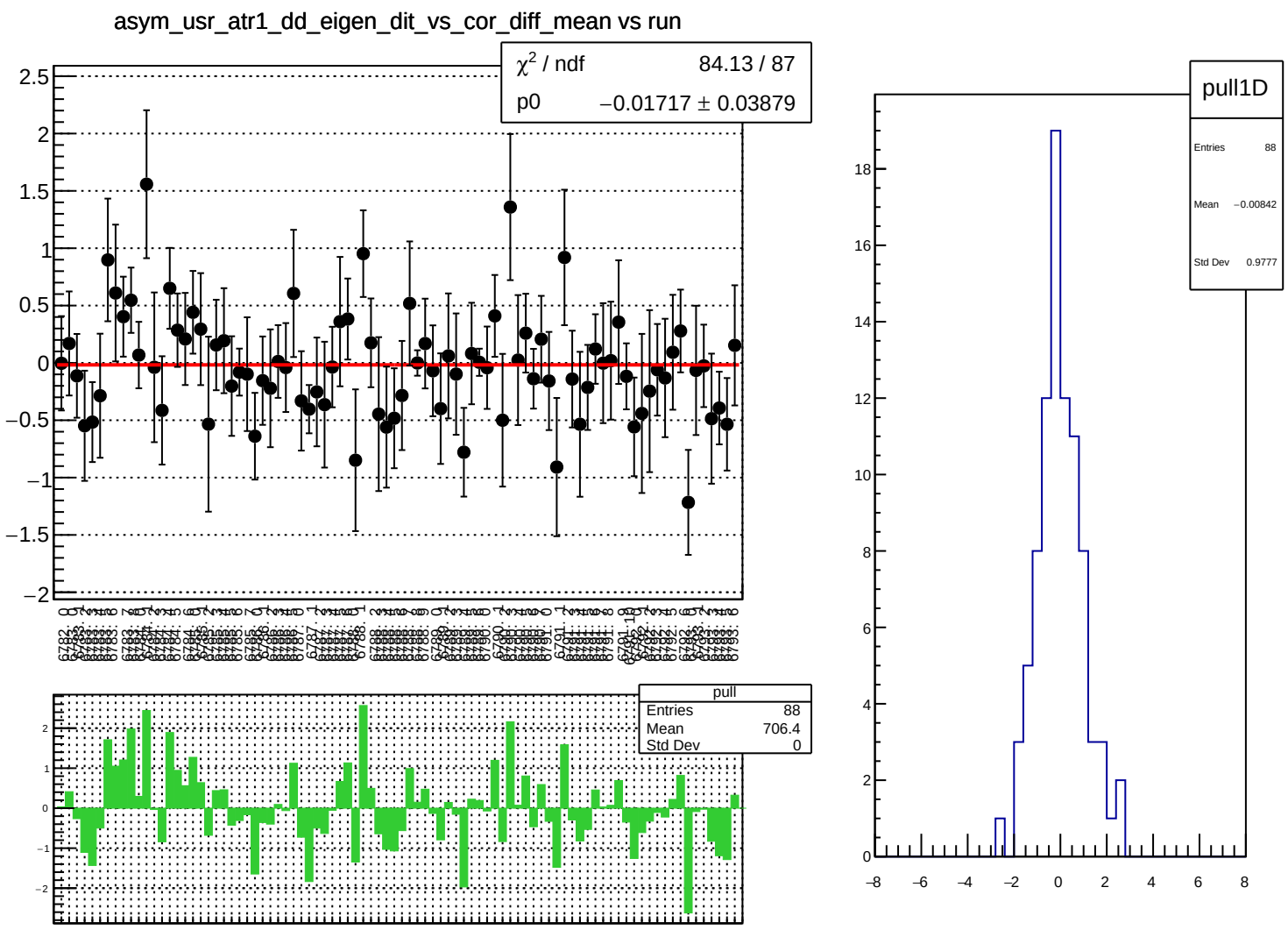

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.13 / 87
p0 −0.01718 ± 0.03879
pull
Entries 88
Mean 707.2
Std Dev 0
pull1D
Entries 88
Mean −0.00841
Std Dev 0.9777

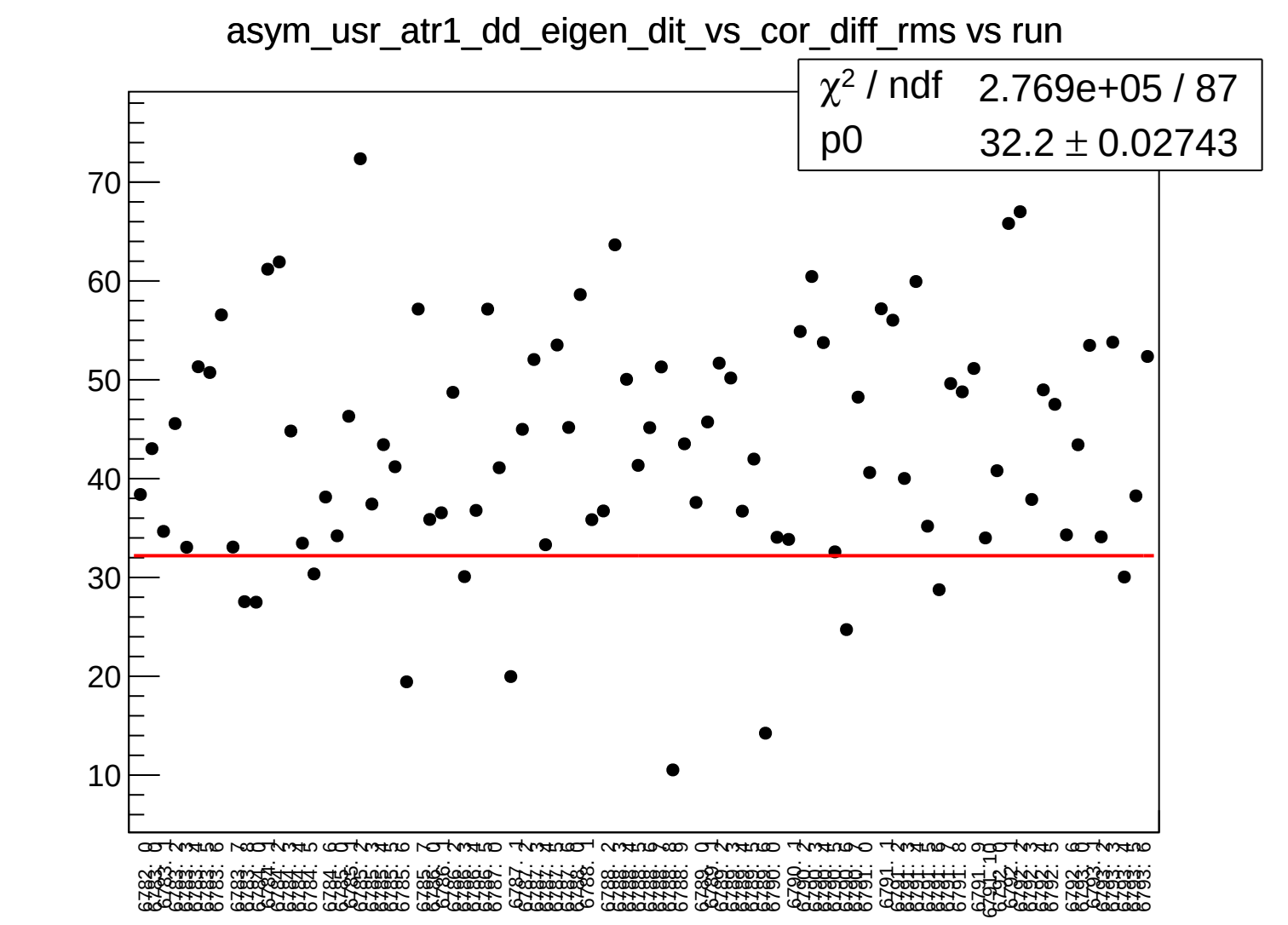

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.769e+05 / 87
p0 32.2 ± 0.02743
70
60
50
40
30
20
10

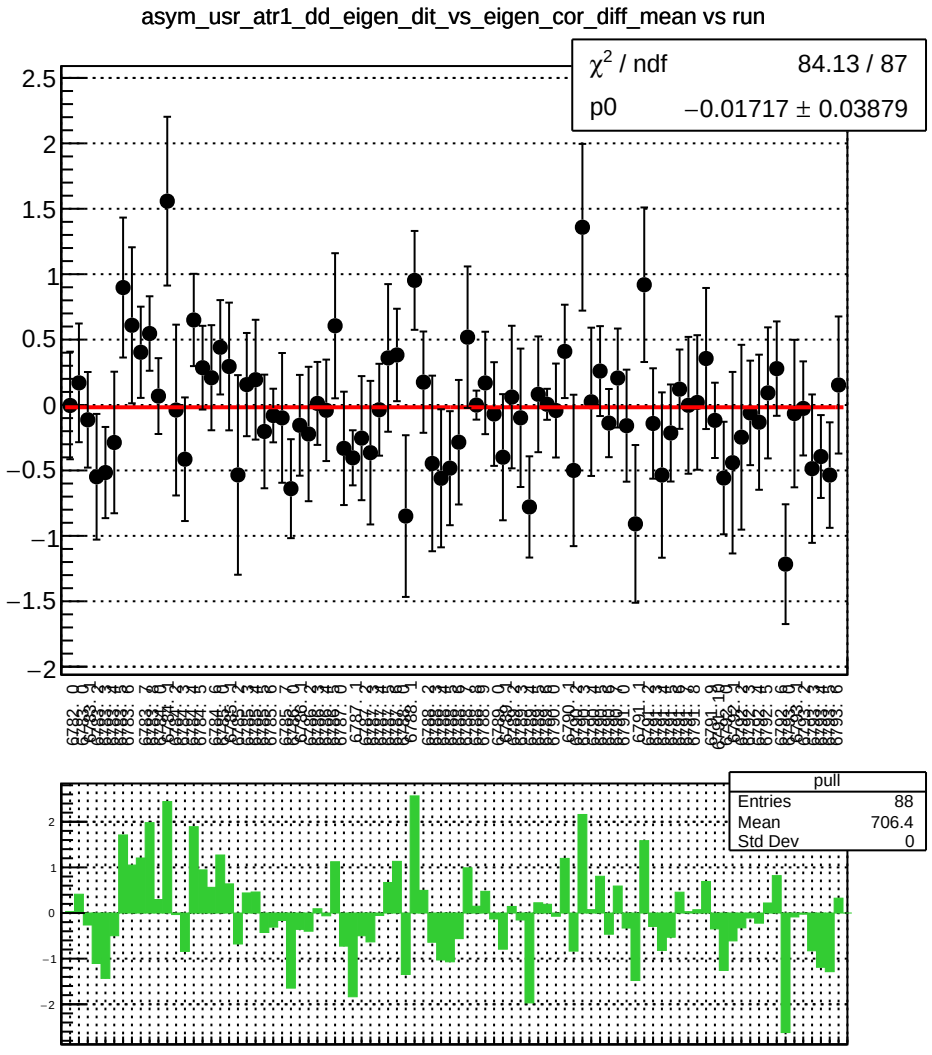

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 93.42 / 87
p0 −2.347e−06 ± 2.004e−06
pull
Entries 88
Mean −1.251e+04
Std Dev 0

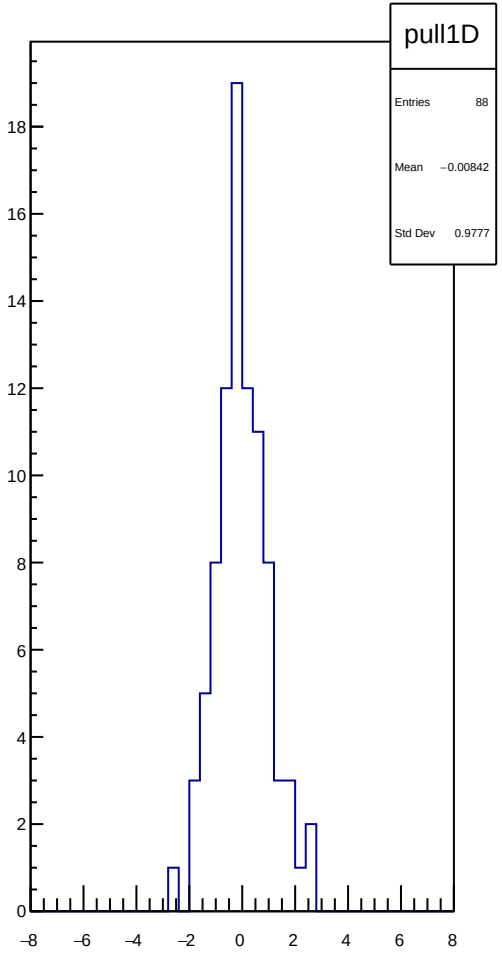

pull1D
Entries 88
Mean −0.0001539
Std Dev 1.03

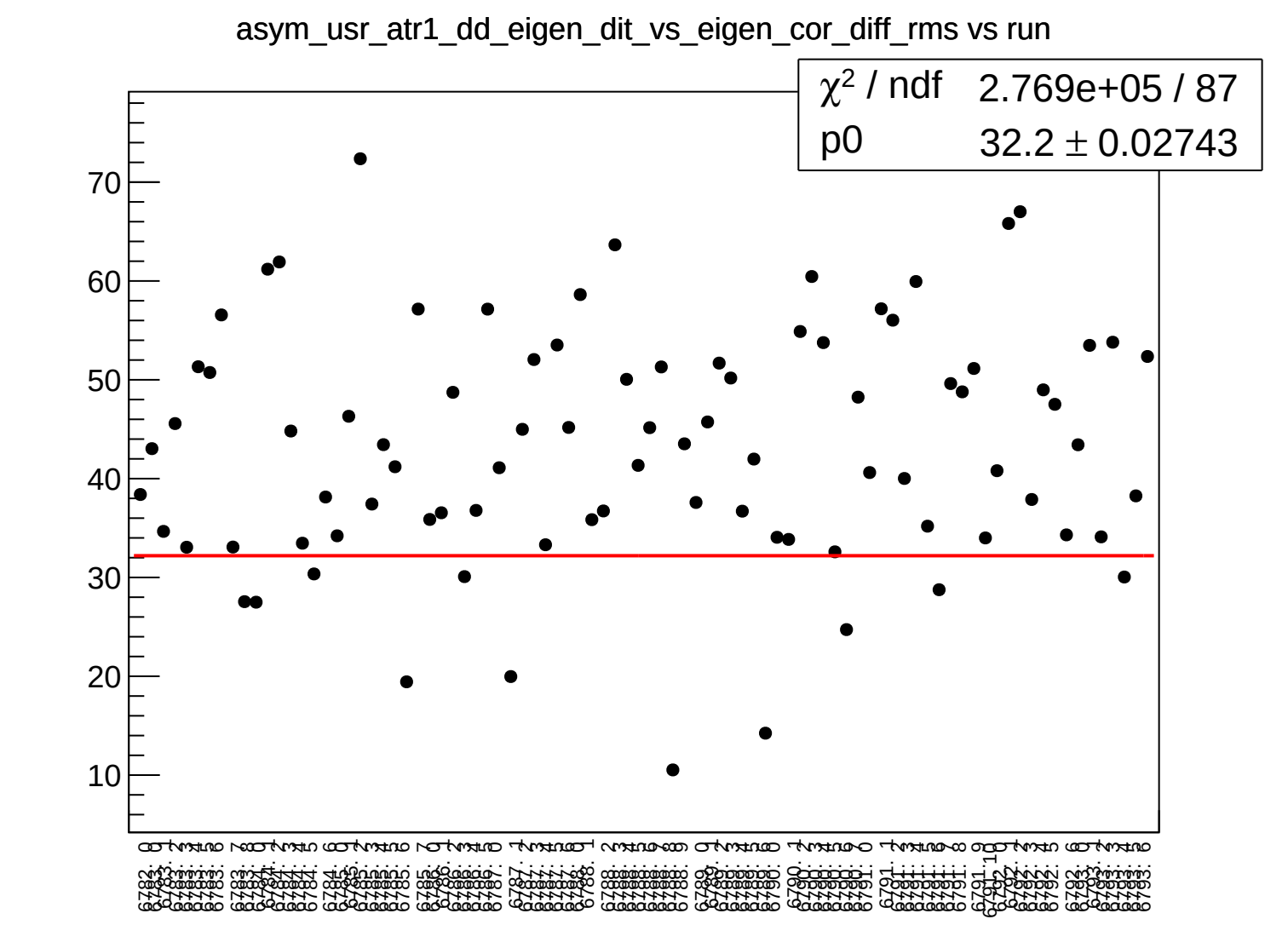

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2382 / 87
p0 0.001822 ± 1.417e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

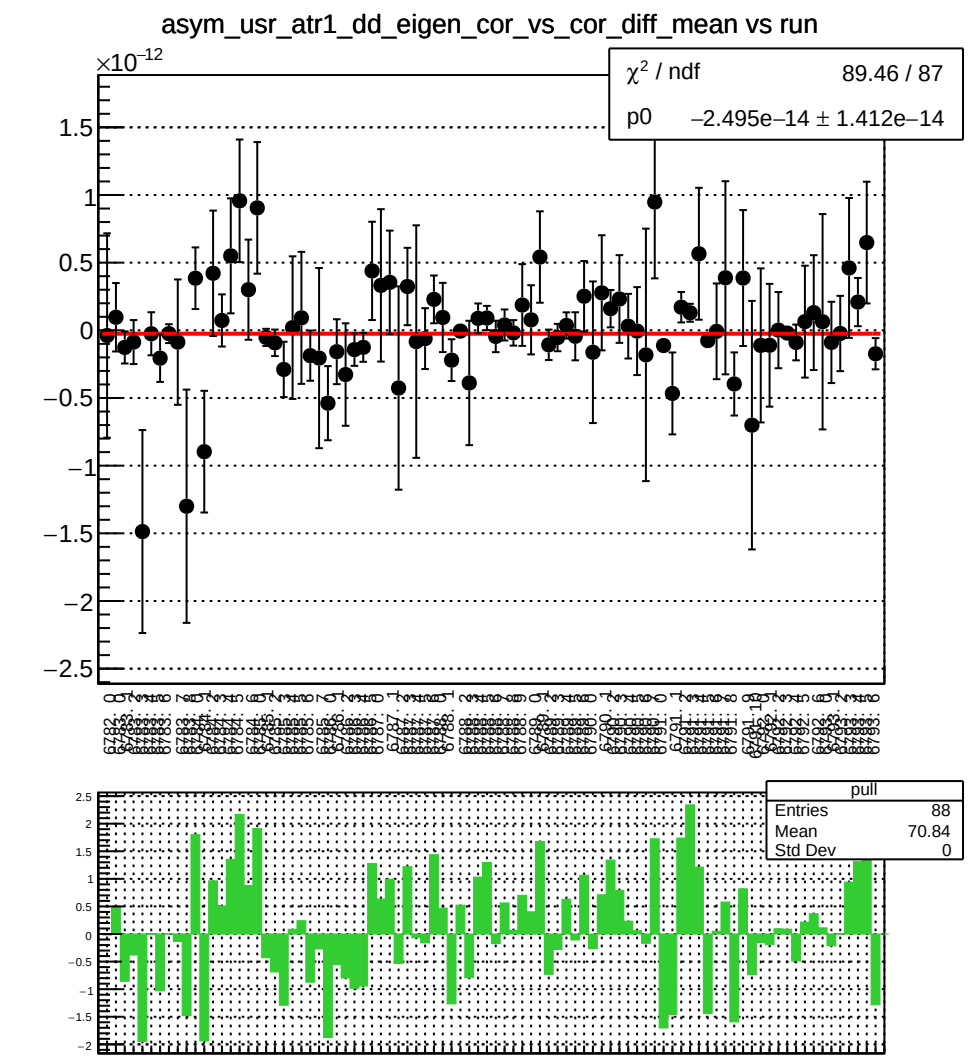

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 87
p0 −0.01717 ± 0.03879
pull
Entries 88
Mean 706.4
Std Dev 0
pull1D
Entries 88
Mean −0.00842
Std Dev 0.9777

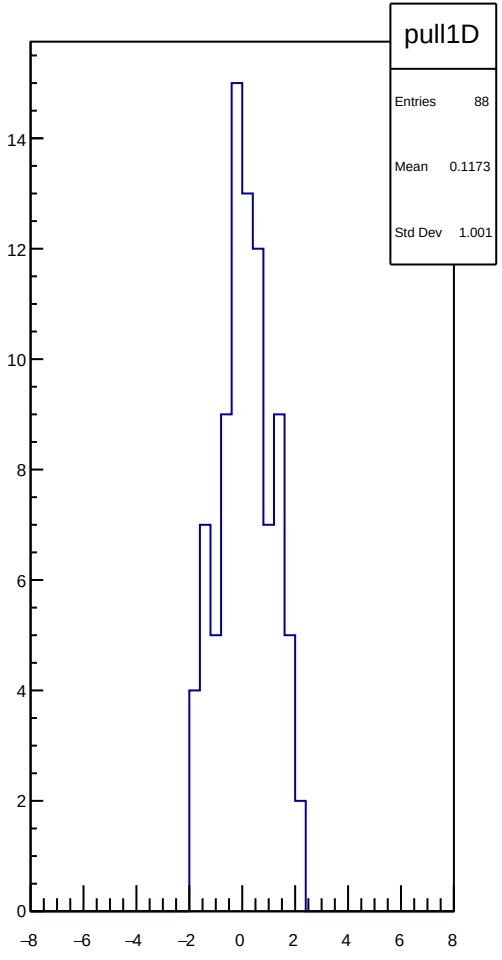

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.769e+05 / 87
p0 32.2 ± 0.02743
70
60
50
40
30
20
10

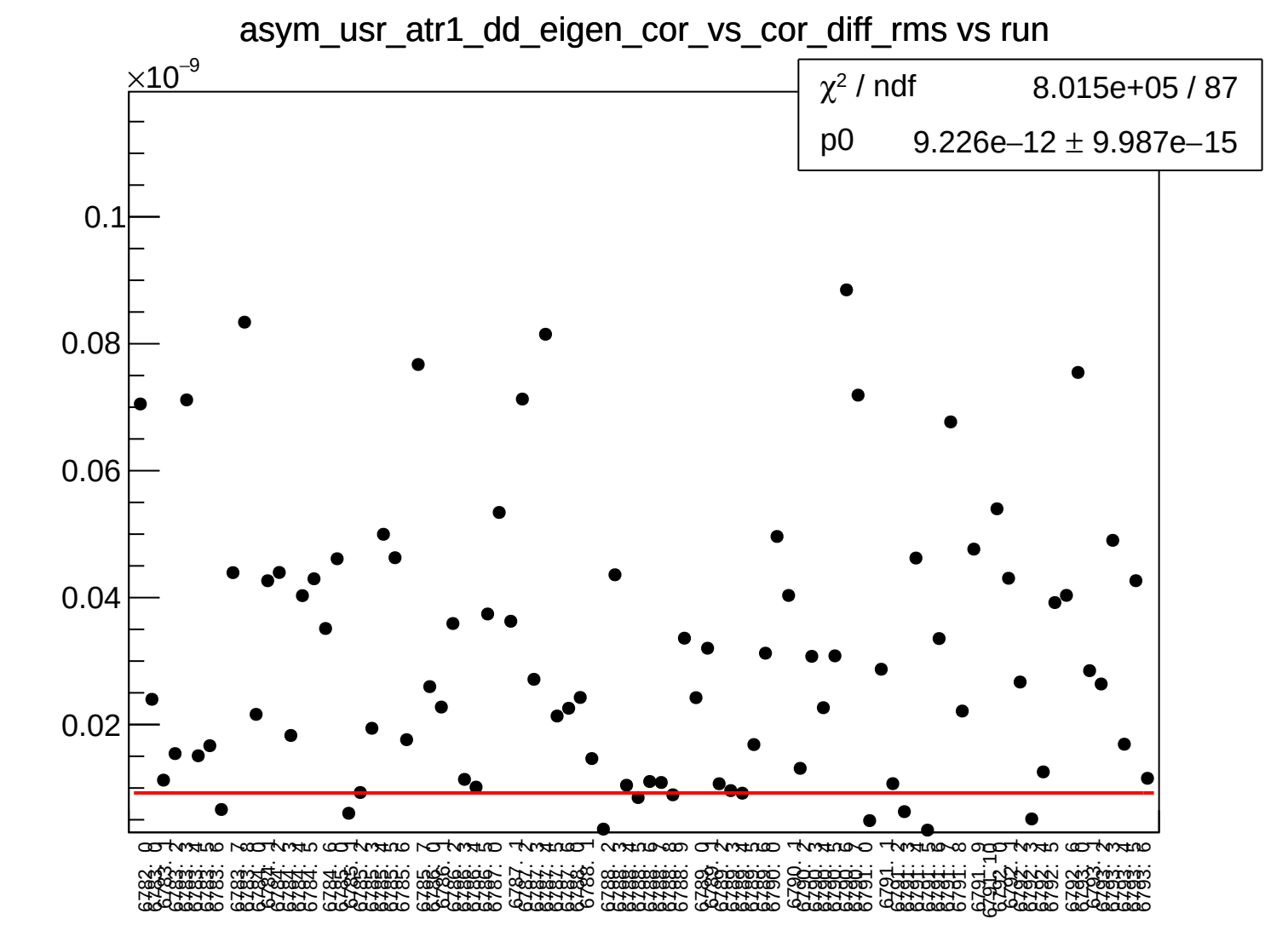

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.13 / 87
p0 −0.01717 ± 0.03879
pull
Entries 88
Mean 706.4
Std Dev 0

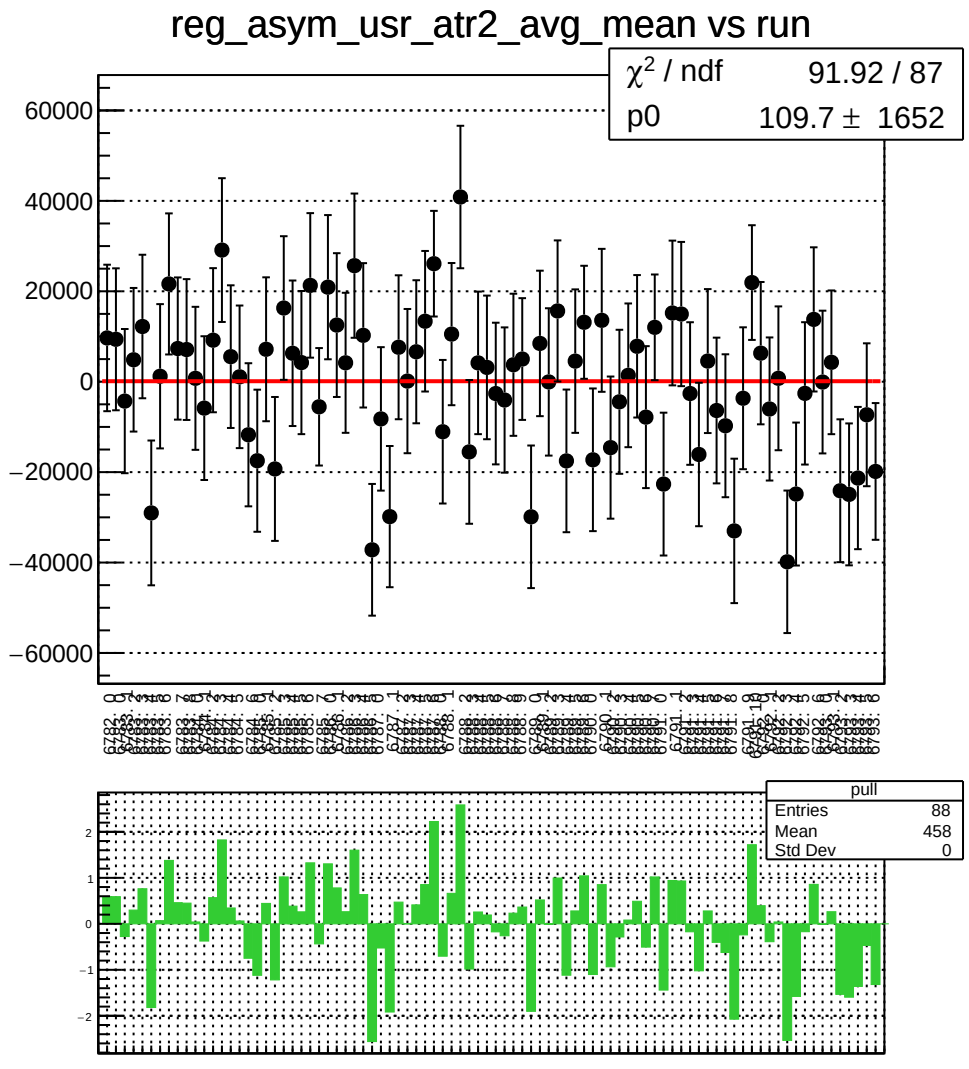

pull1D
Entries 88
Mean −0.00842
Std Dev 0.9777

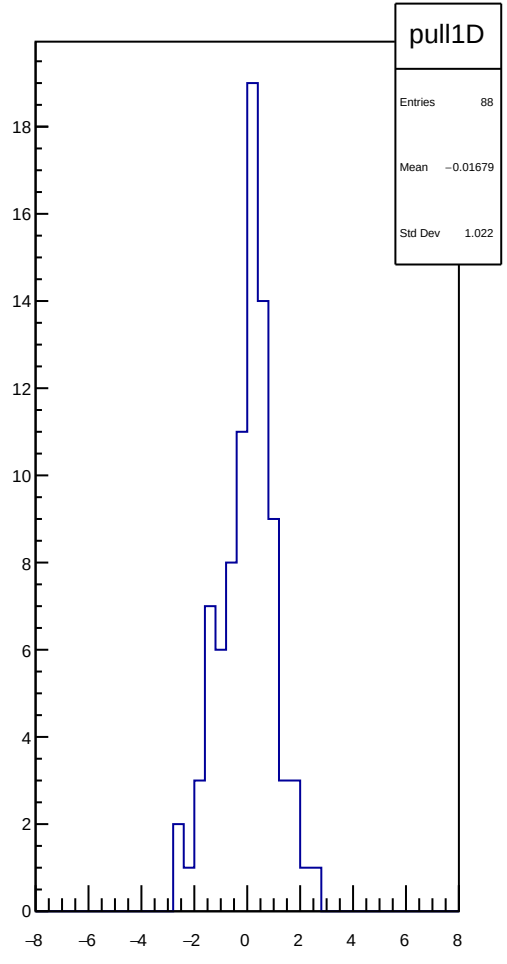

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.769e+05 / 87
p0 32.2 ± 0.02743
70
60
50
40
30
20
10

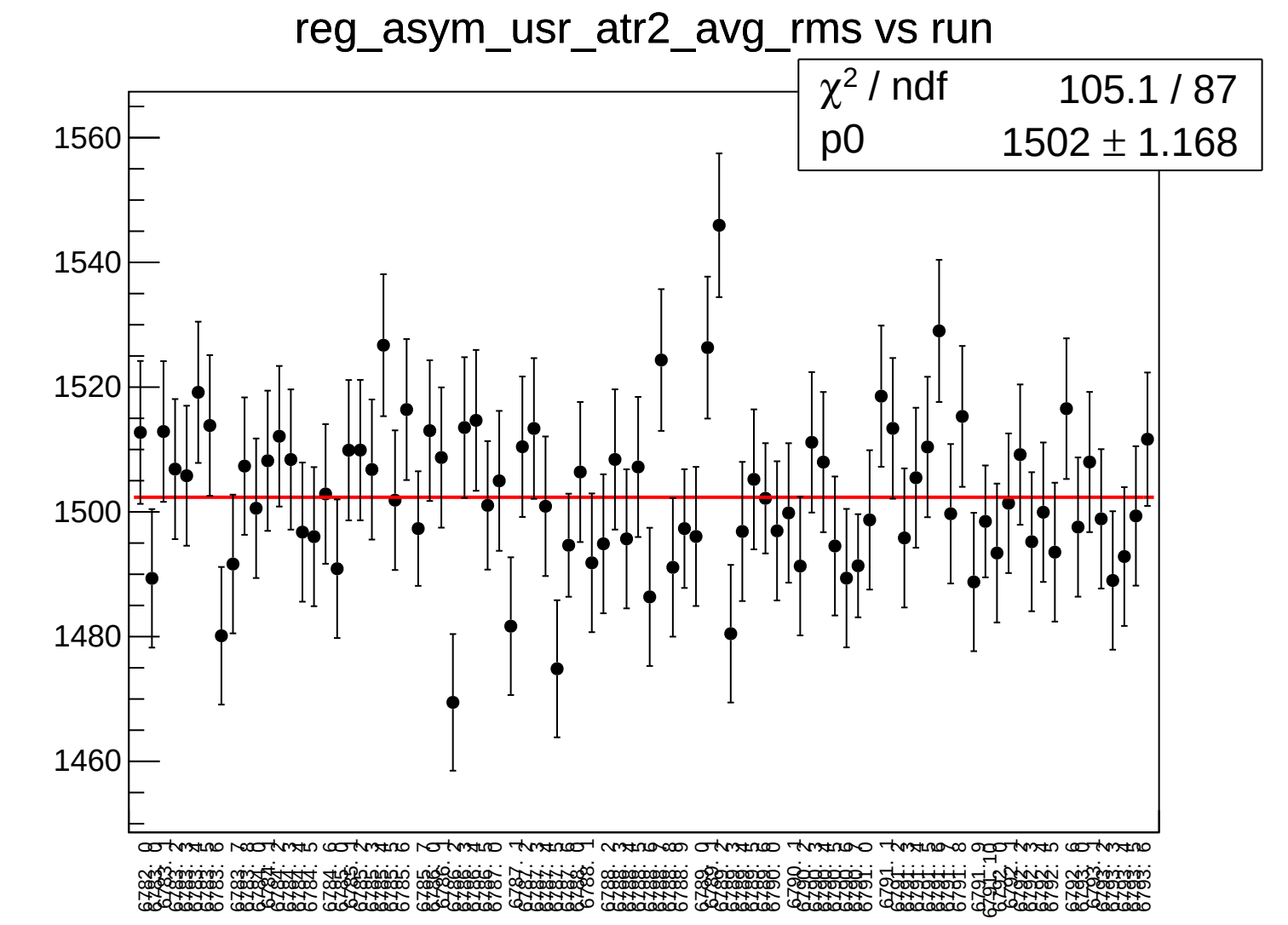

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.46 / 87
p0 −2.495e−14 ± 1.412e−14
pull
Entries 88
Mean 70.84
Std Dev 0

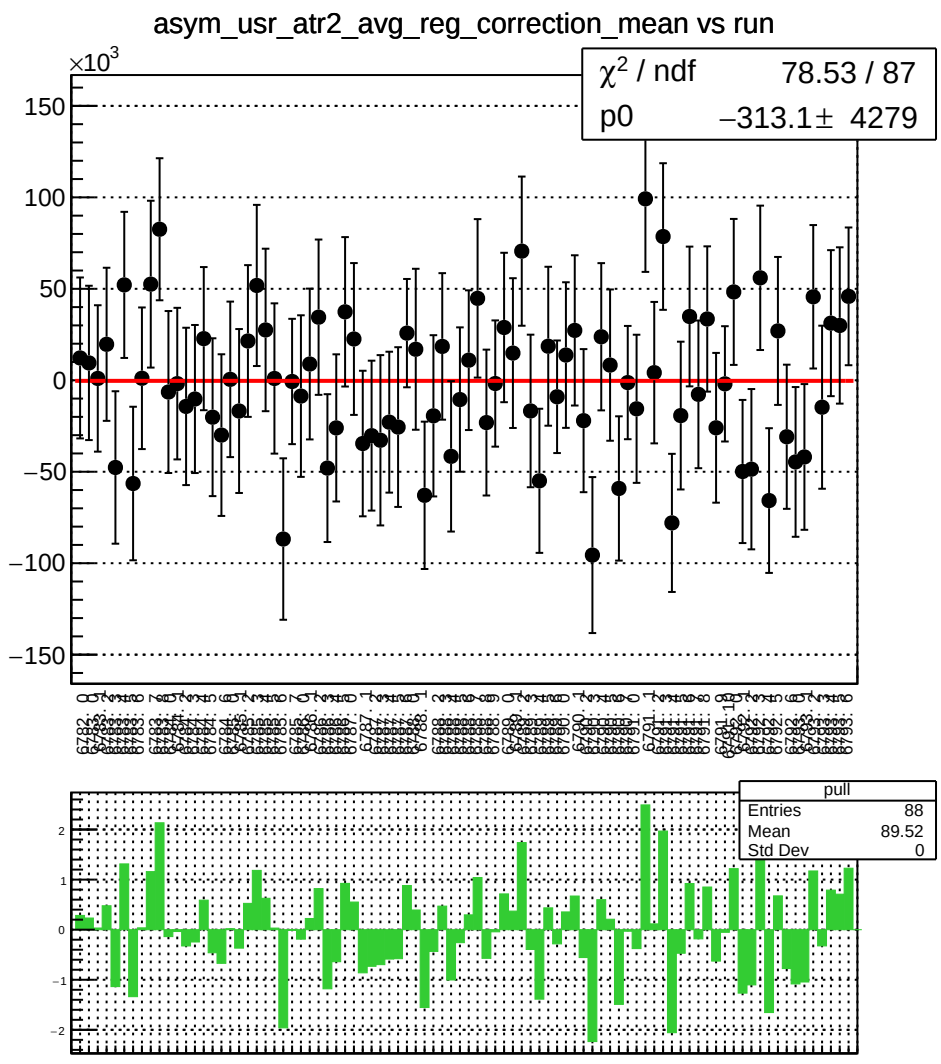

pull1D
Entries 88
Mean 0.1173
Std Dev 1.001

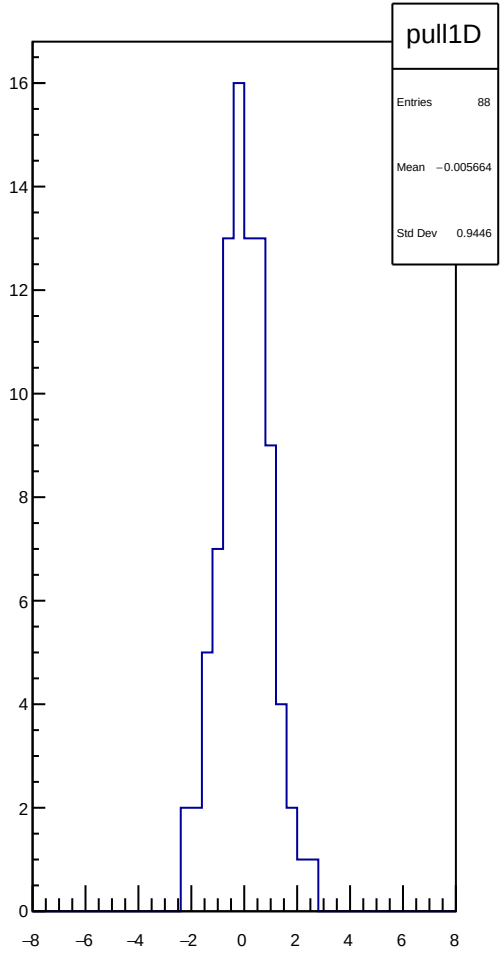

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.015e+05 / 87
p0 9.226e−12 ± 9.987e−15
0.1
0.08
0.06
0.04
0.02

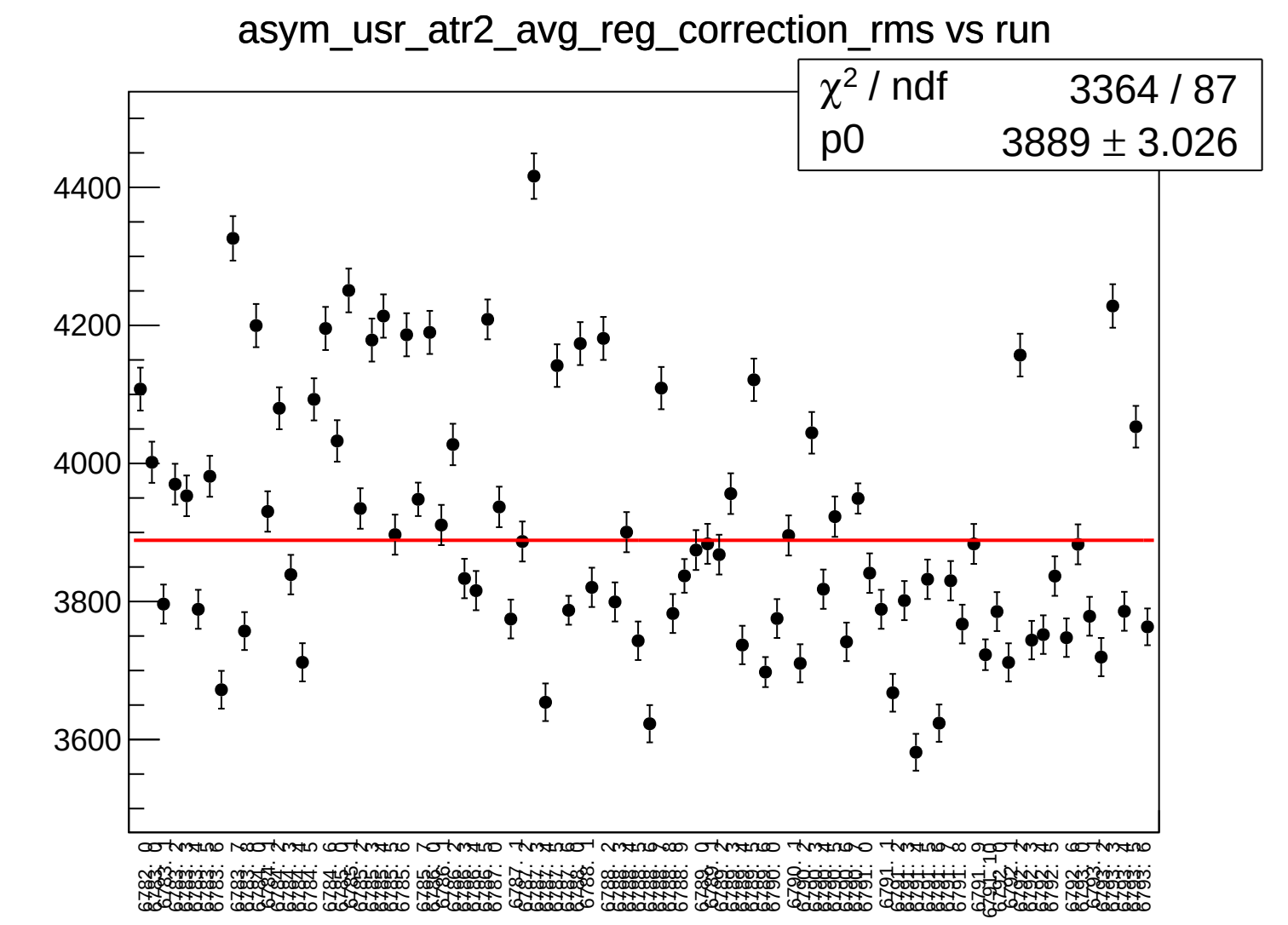

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.92 / 87
p0 109.7 ± 1652
pull
Entries 88
Mean 458
Std Dev 0

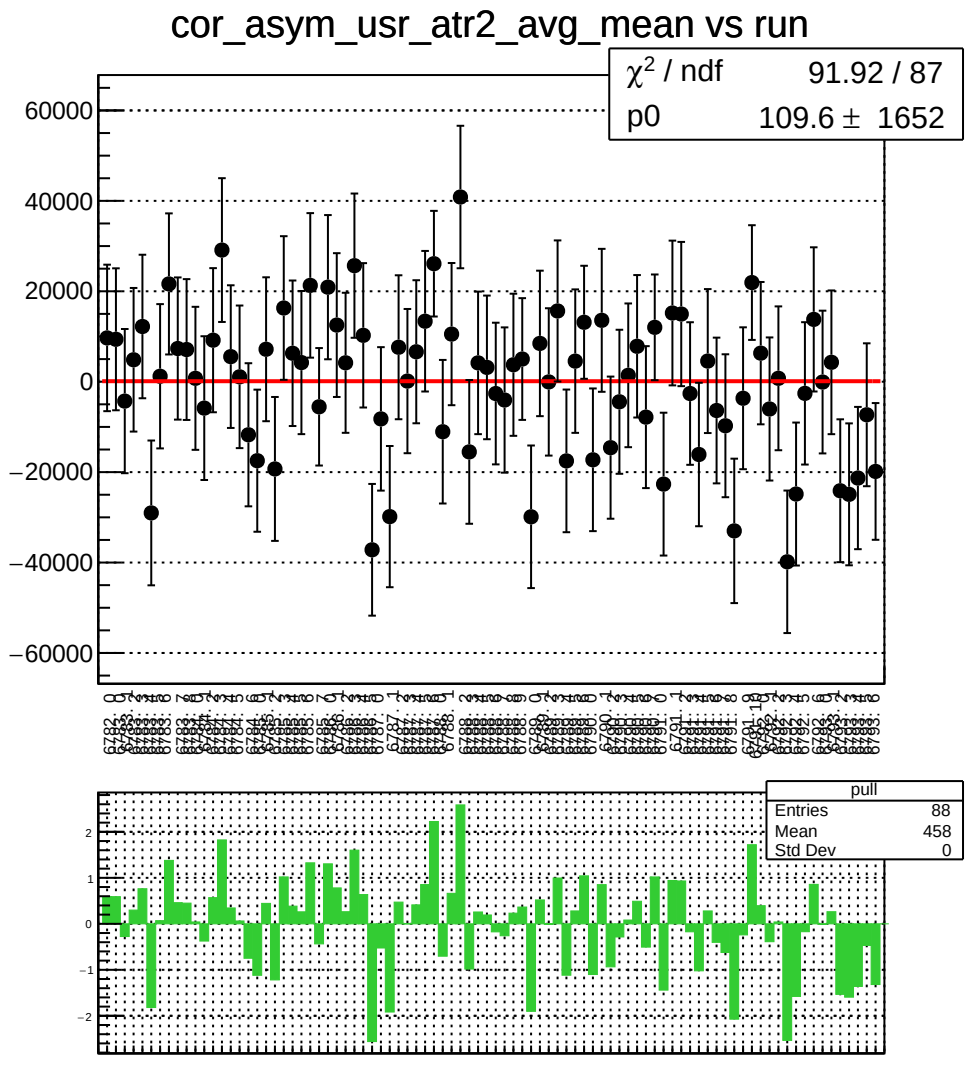

pull1D
Entries 88
Mean −0.01679
Std Dev 1.022

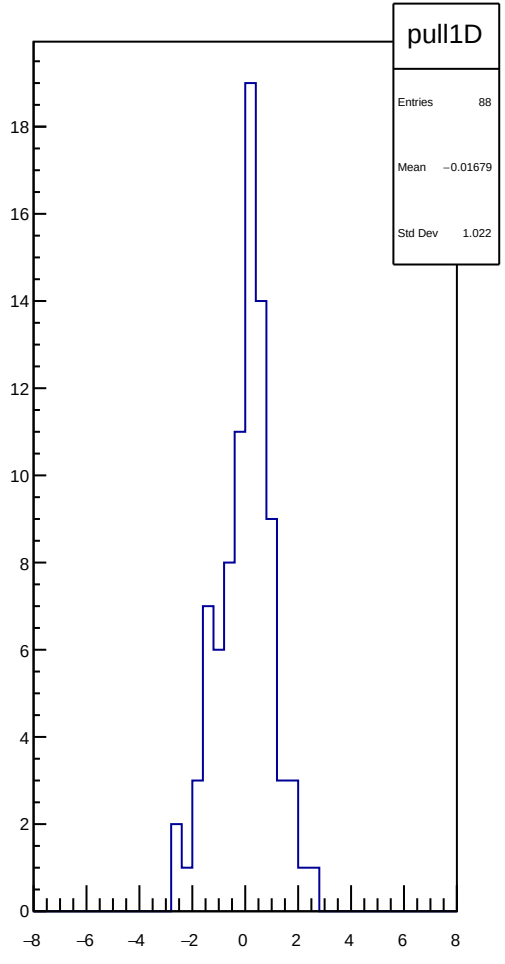

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 105.1 / 87
p0 1502 ± 1.168
1560
1540
1520
1500
1480
1460

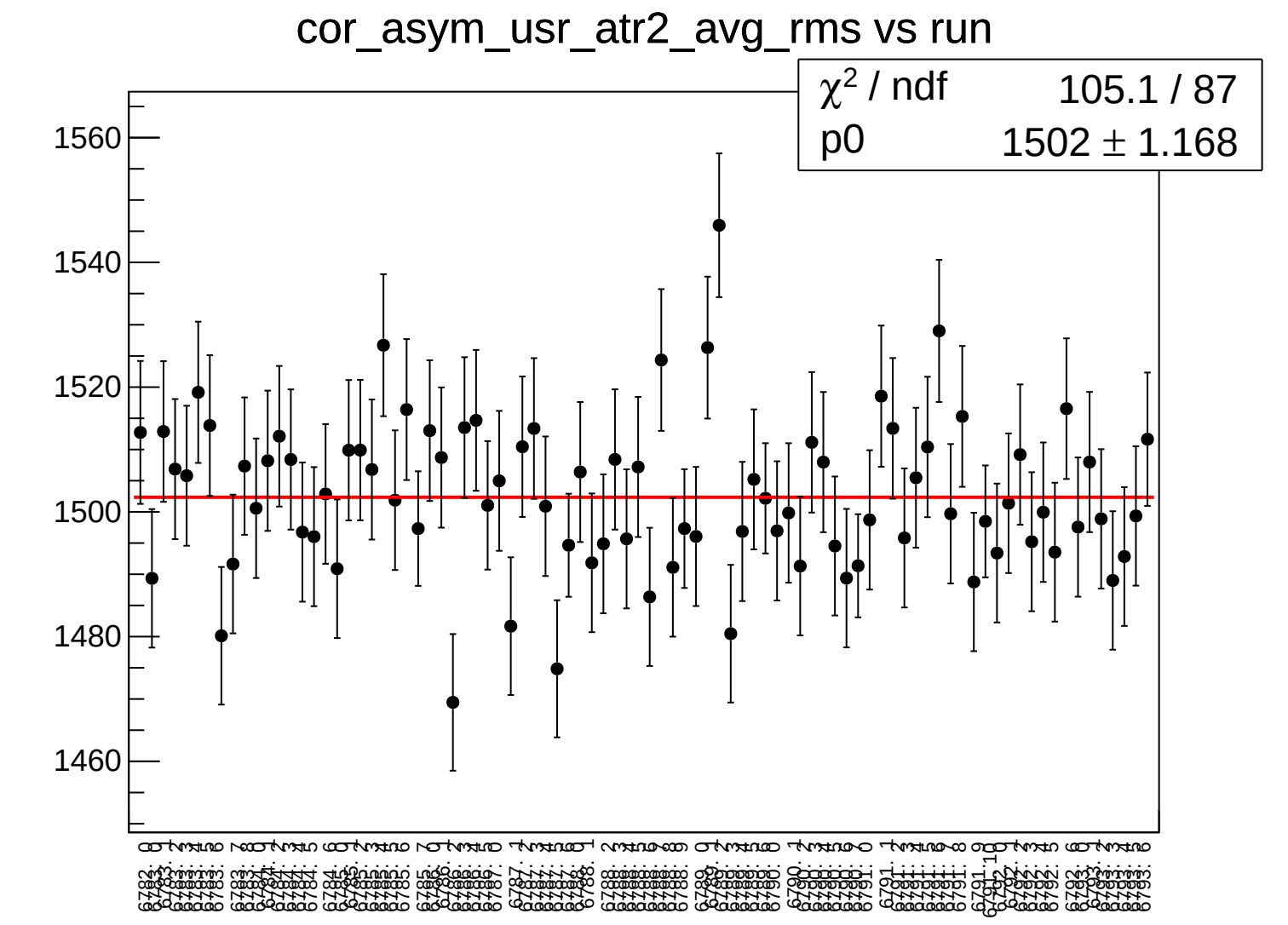

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.53 / 87
p0 −313.1± 4279
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 89.52
Std Dev 0
2
1
0
−1
−2

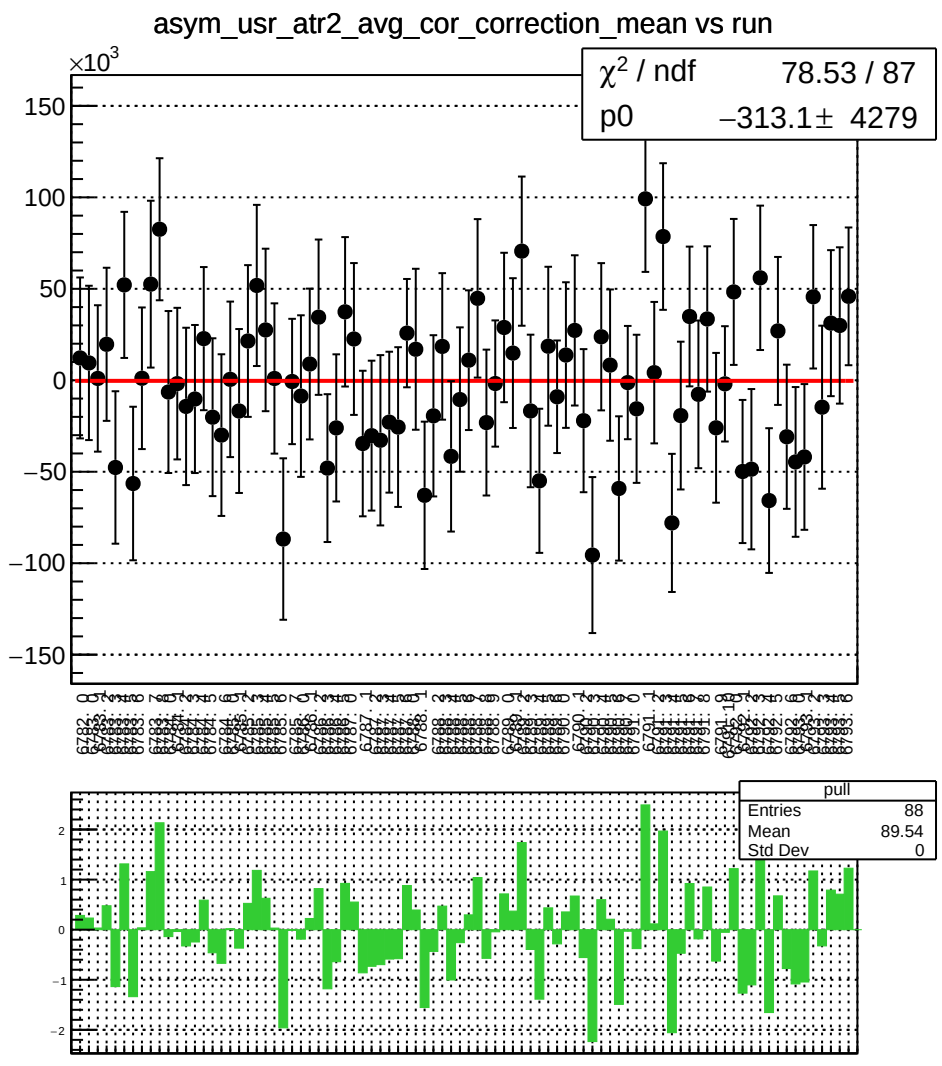

pull1D
Entries 88
Mean −0.005664
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

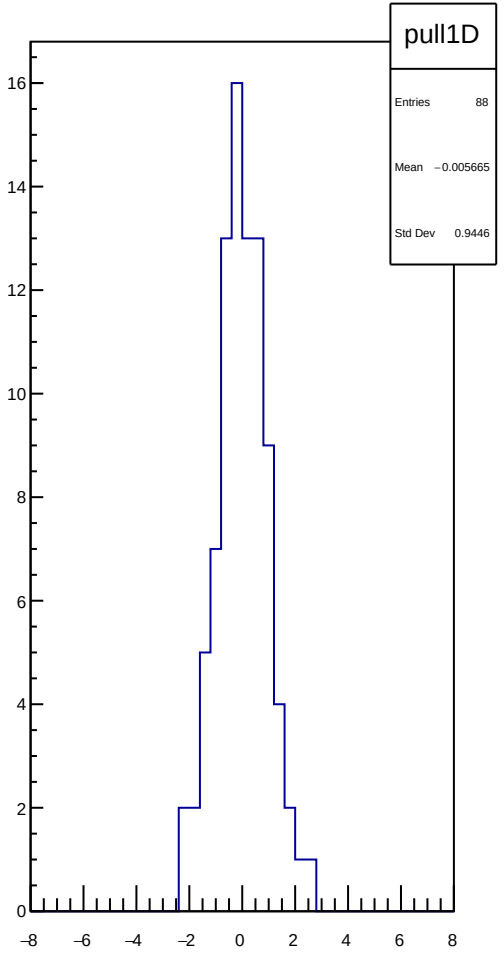

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3364 / 87
p0 3889 ± 3.026
4400
4200
4000
3800
3600

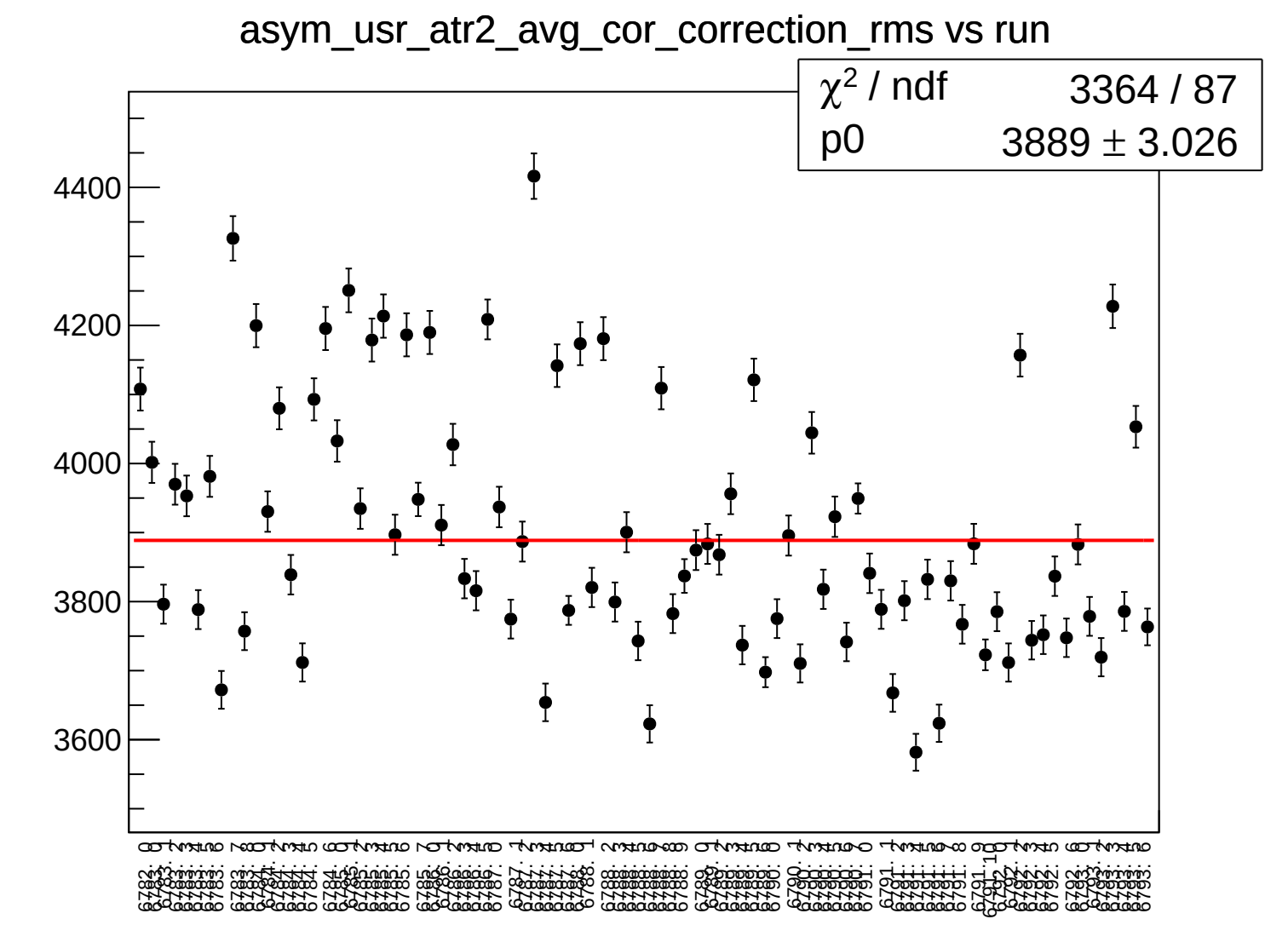

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.92 / 87
p0 109.6 ± 1652
pull
Entries 88
Mean 458
Std Dev 0

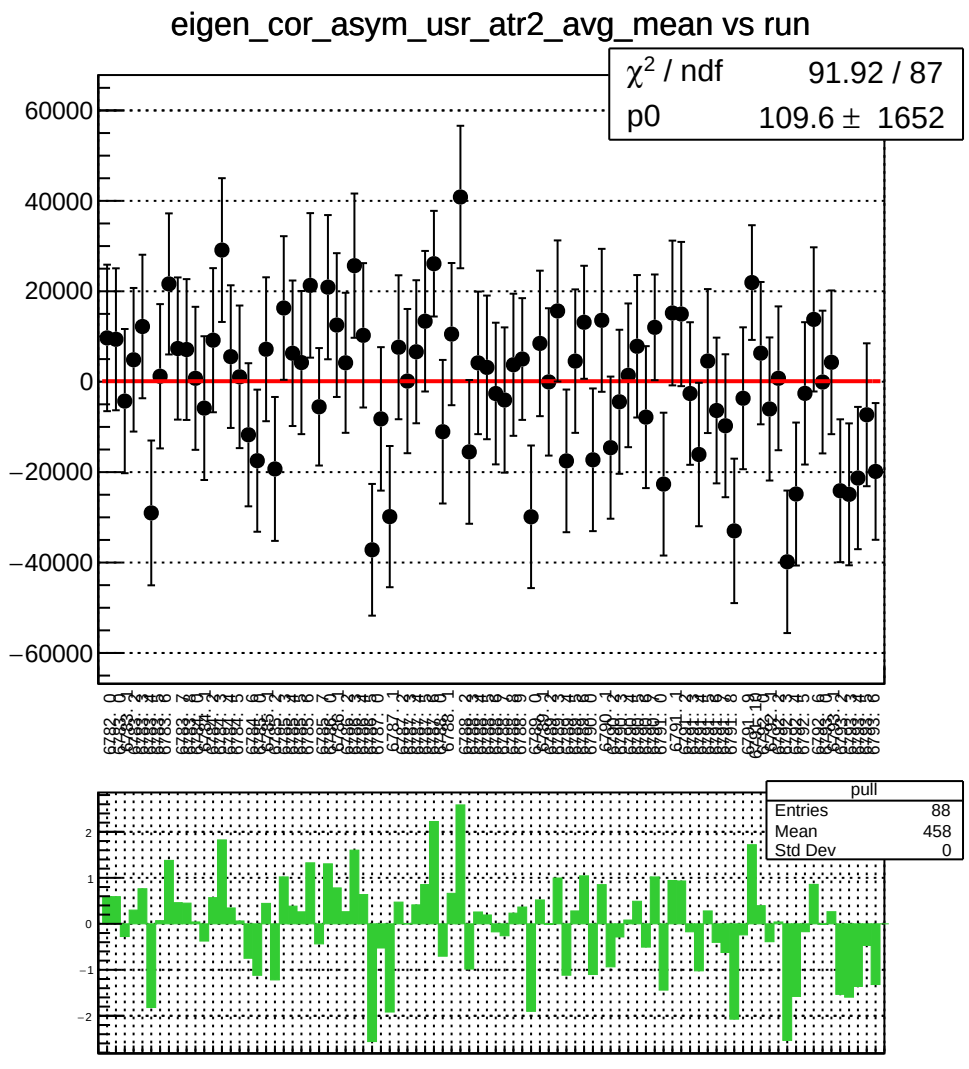

pull1D
Entries 88
Mean −0.01679
Std Dev 1.022

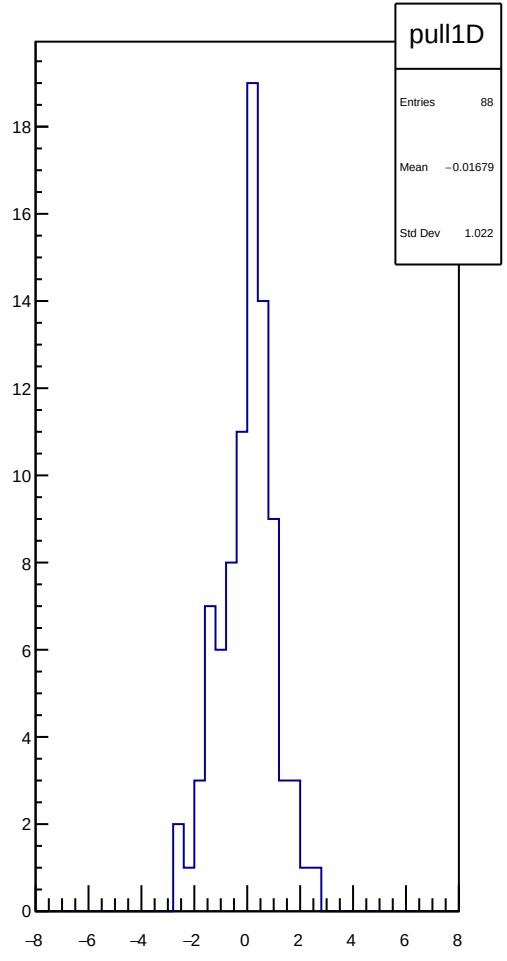

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 105.1 / 87
p0 1502 ± 1.168
1560
1540
1520
1500
1480
1460

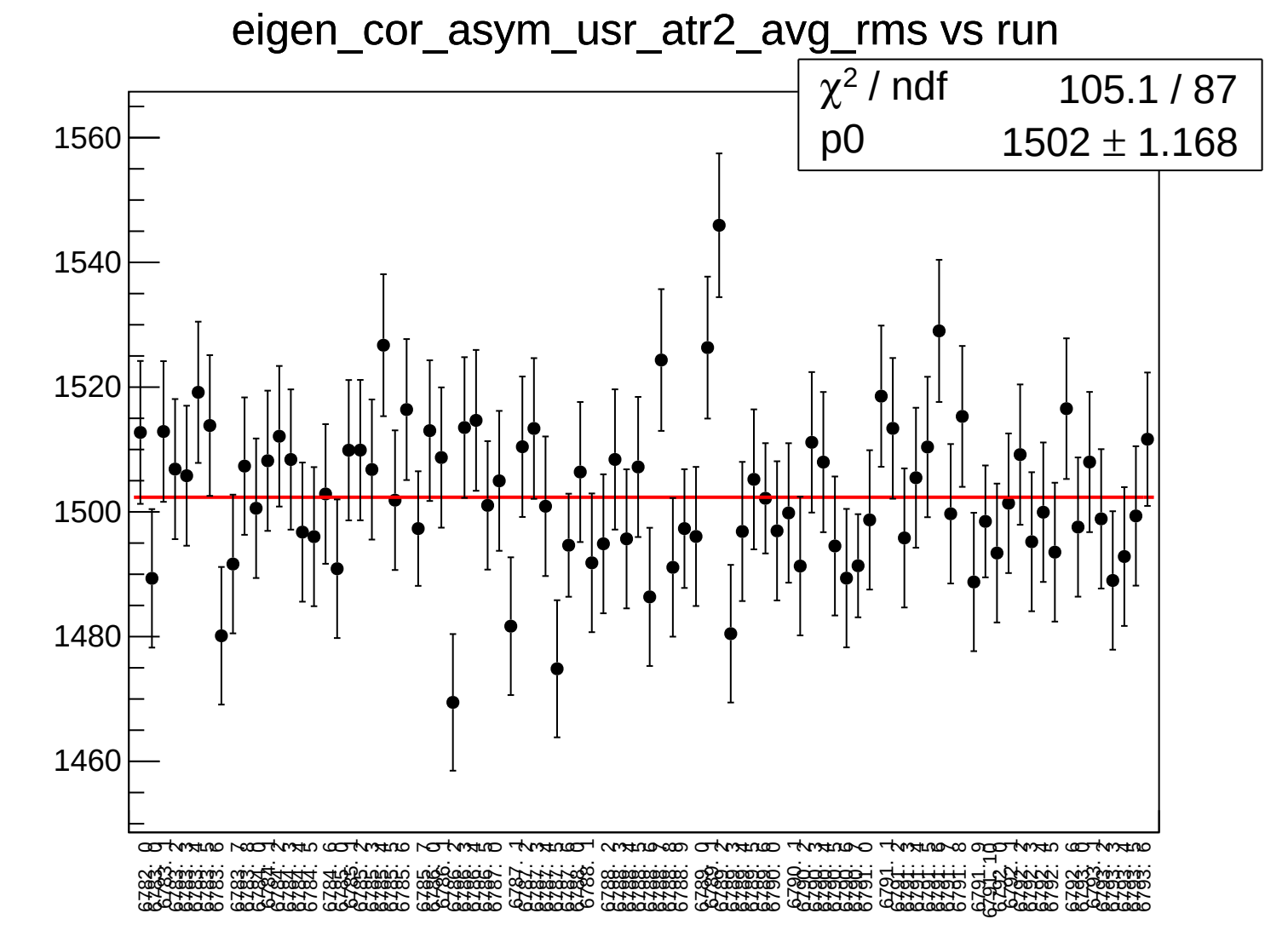

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.53 / 87
p0 −313.1± 4279
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 89.54
Std Dev 0
2
1
0
−1
−2

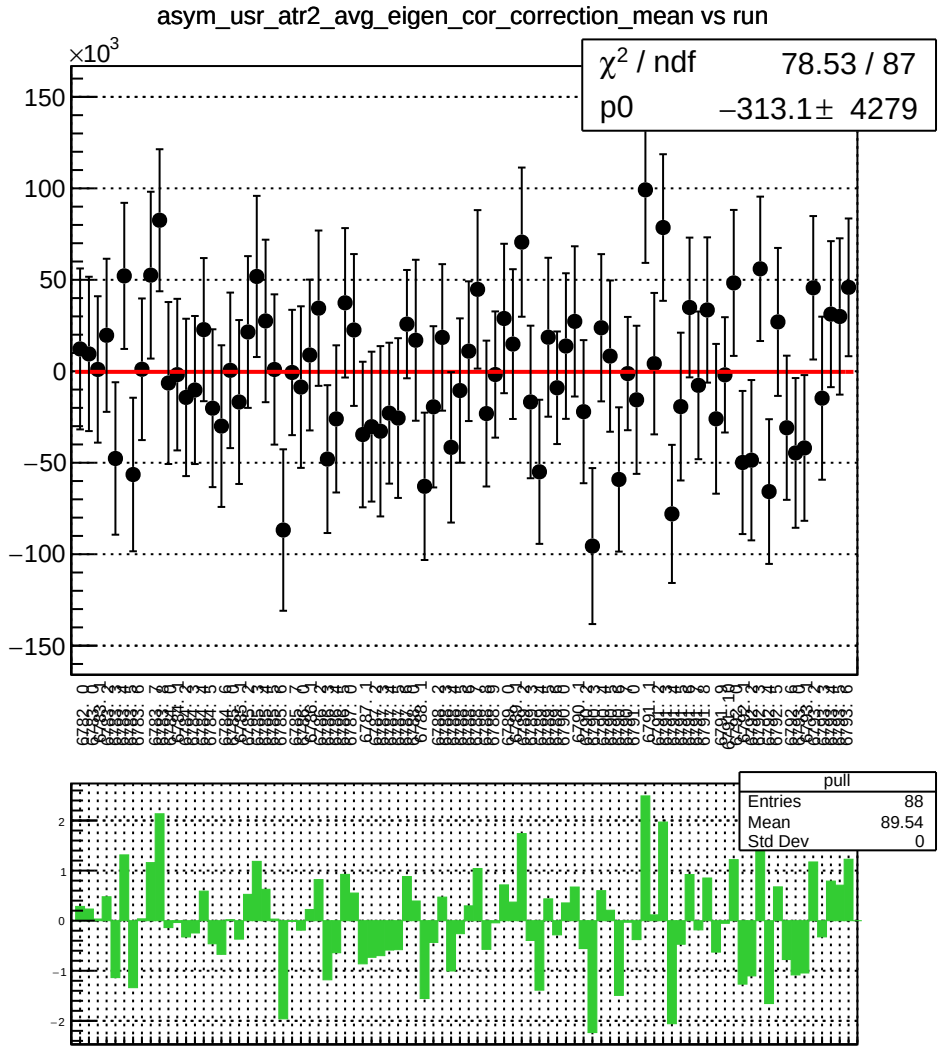

pull1D
Entries 88
Mean −0.005665
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

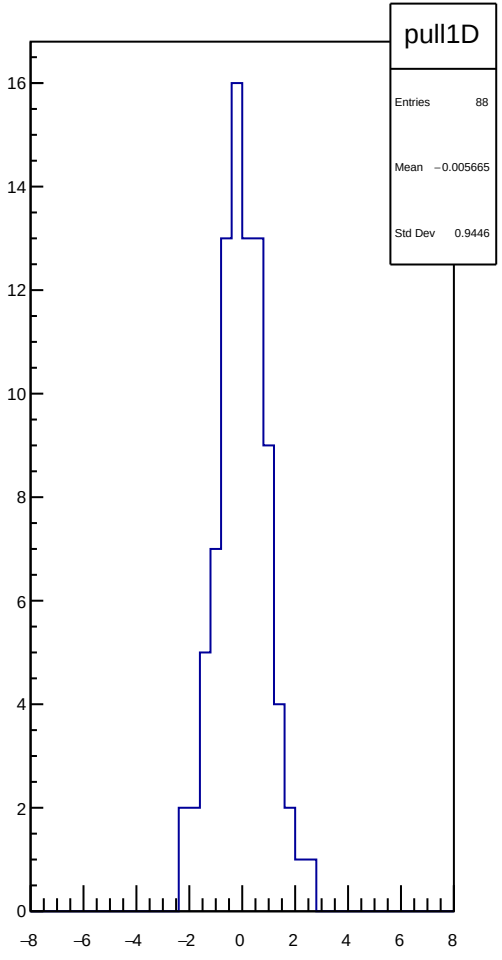

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 3364 / 87
p0 3889 ± 3.026
4400
4200
4000
3800
3600

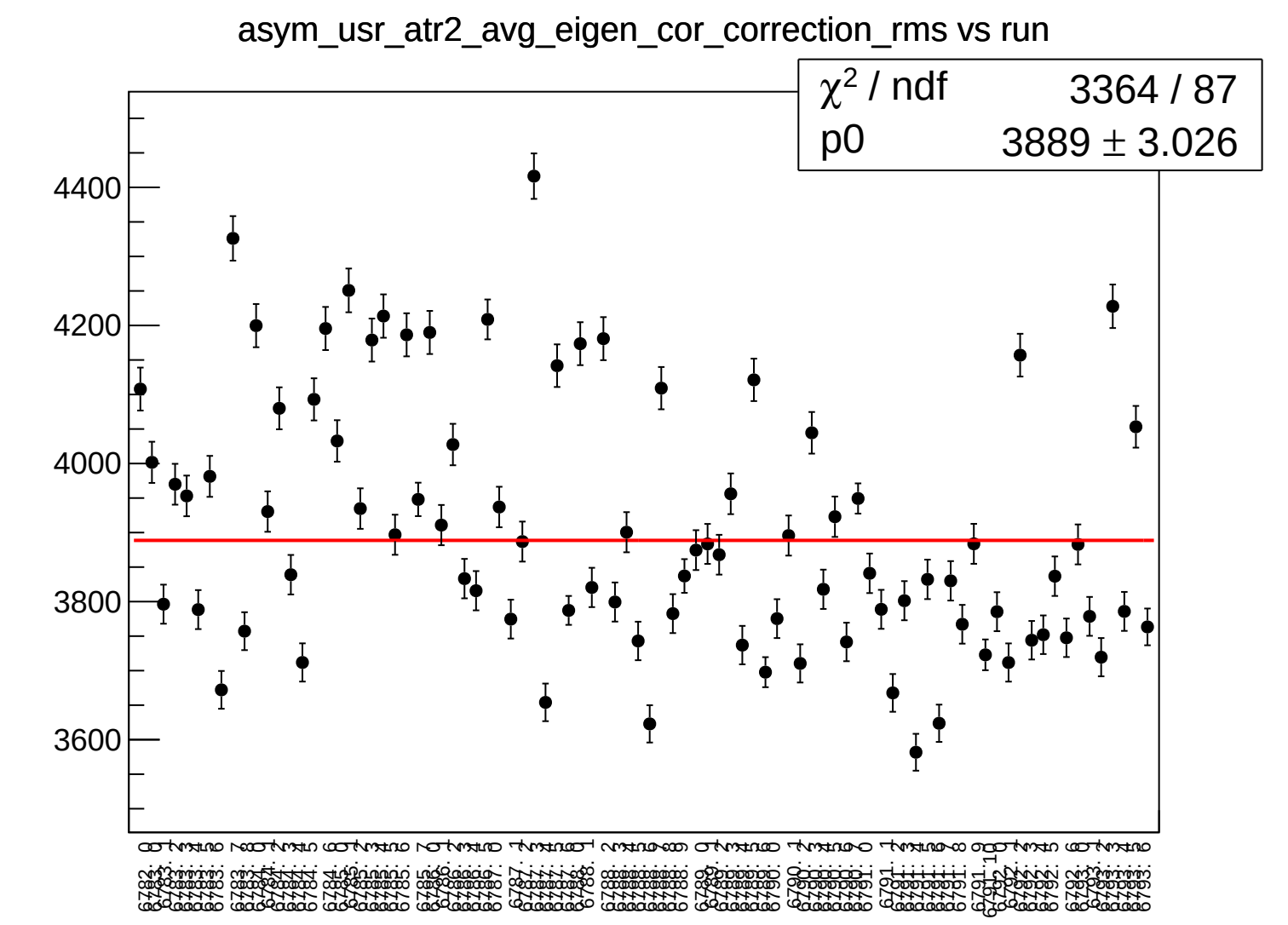

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.92 / 87
p0 109.6 ± 1652
pull
Entries 88
Mean 458
Std Dev 0

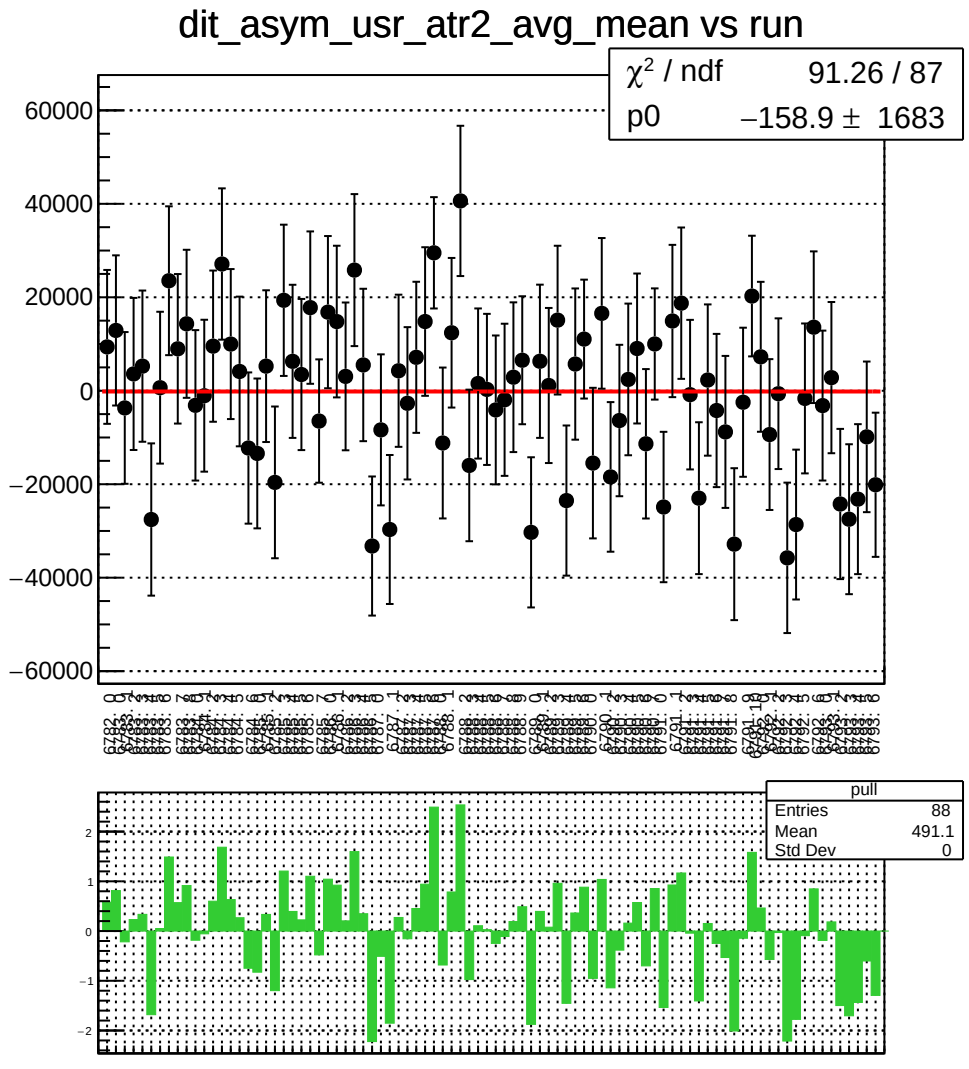

pull1D
Entries 88
Mean −0.01679
Std Dev 1.022

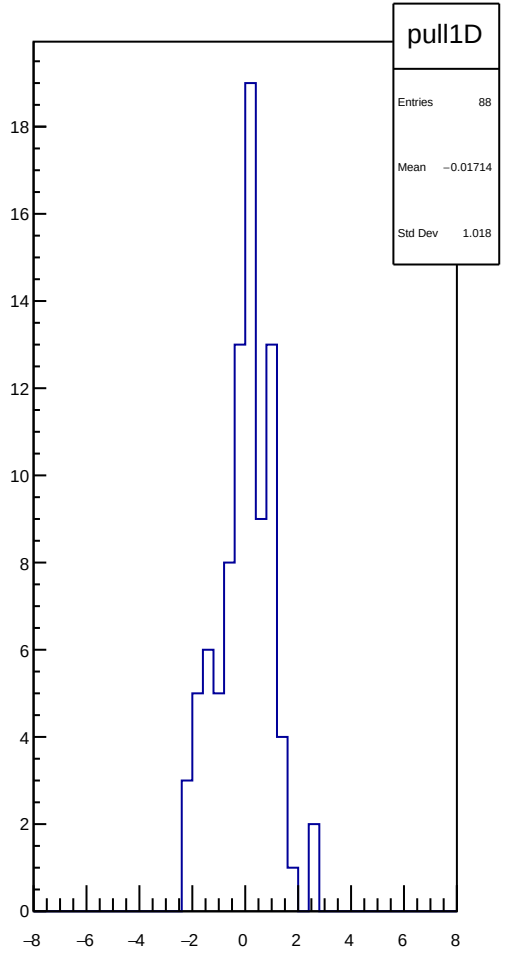

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 105.1 / 87
p0 1502 ± 1.168
1560
1540
1520
1500
1480
1460

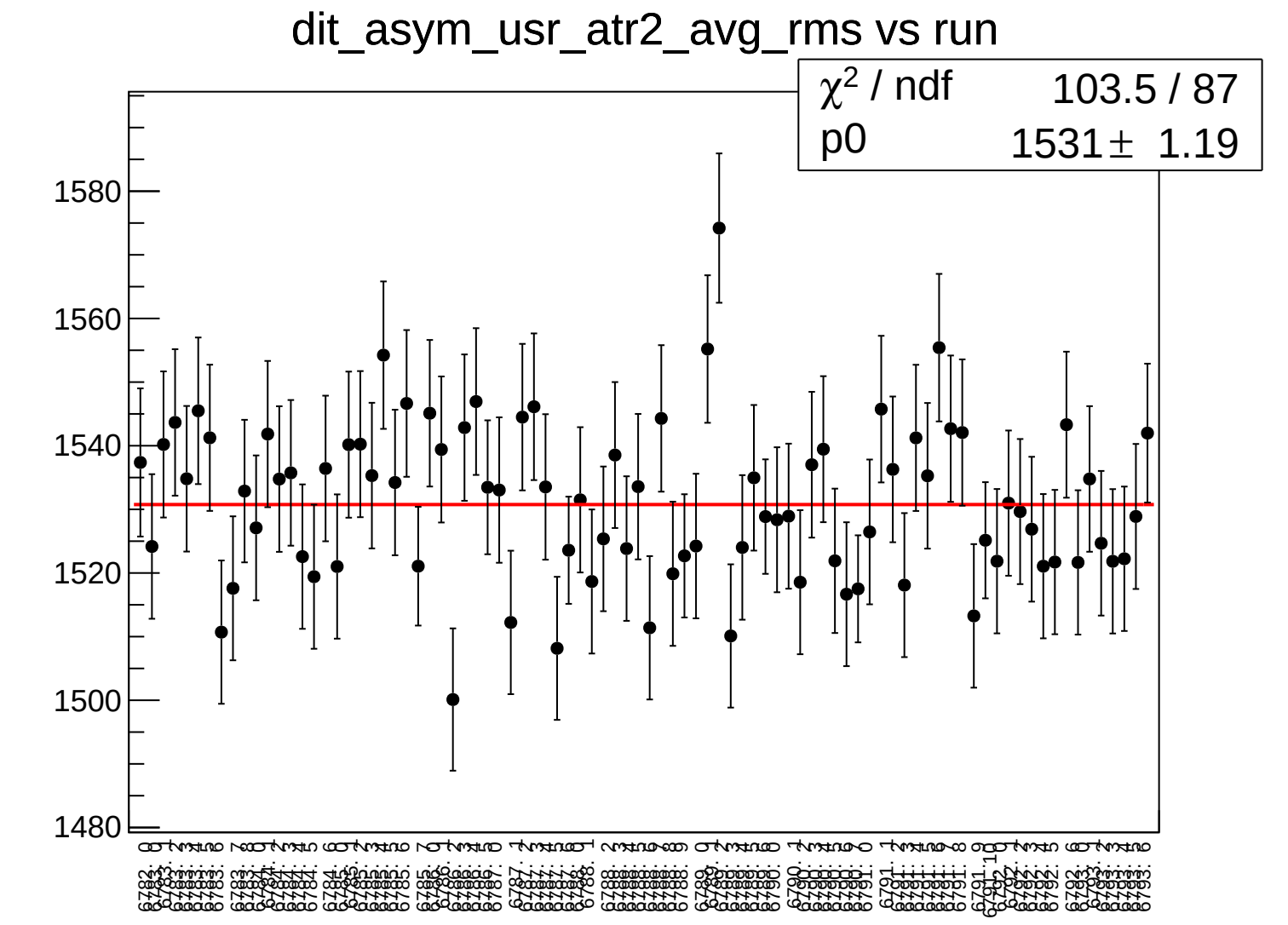

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.53 / 87
p0 −313.1± 4279
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 89.54
Std Dev 0
2
1
0
−1
−2

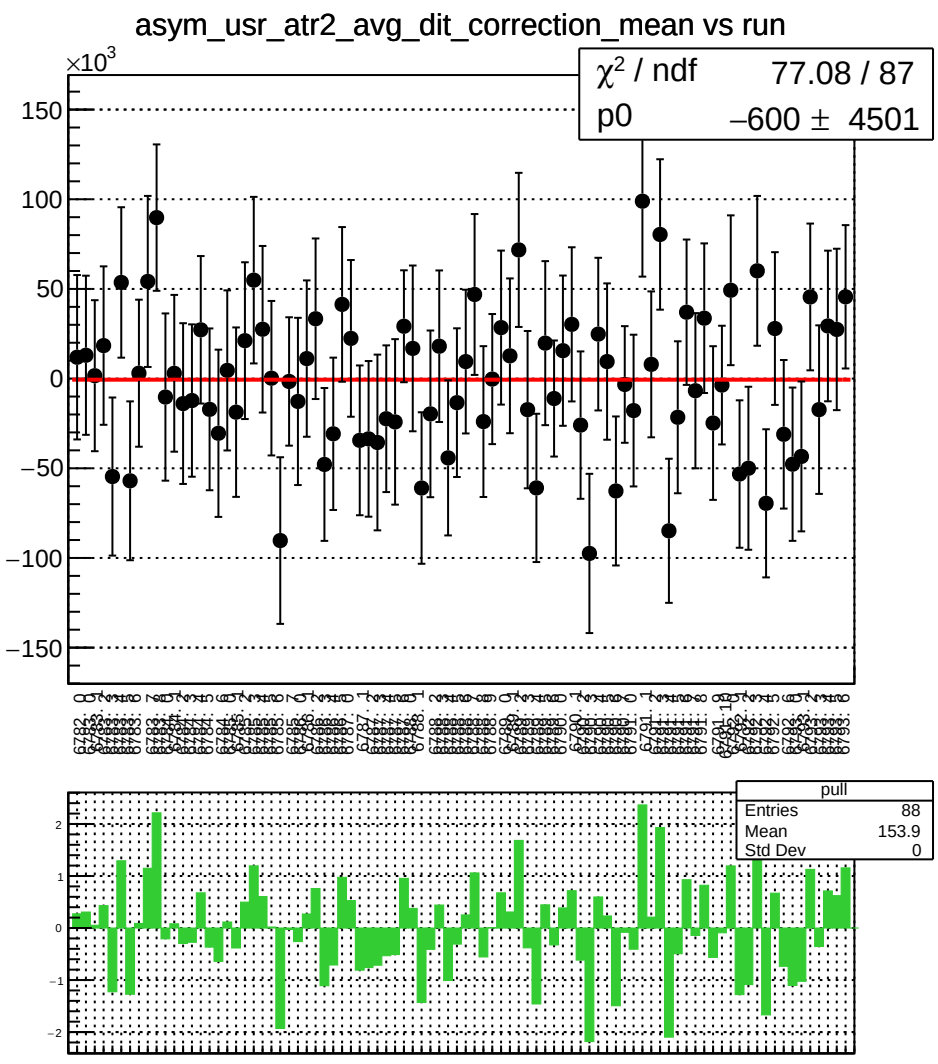

pull1D
Entries 88
Mean −0.005665
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

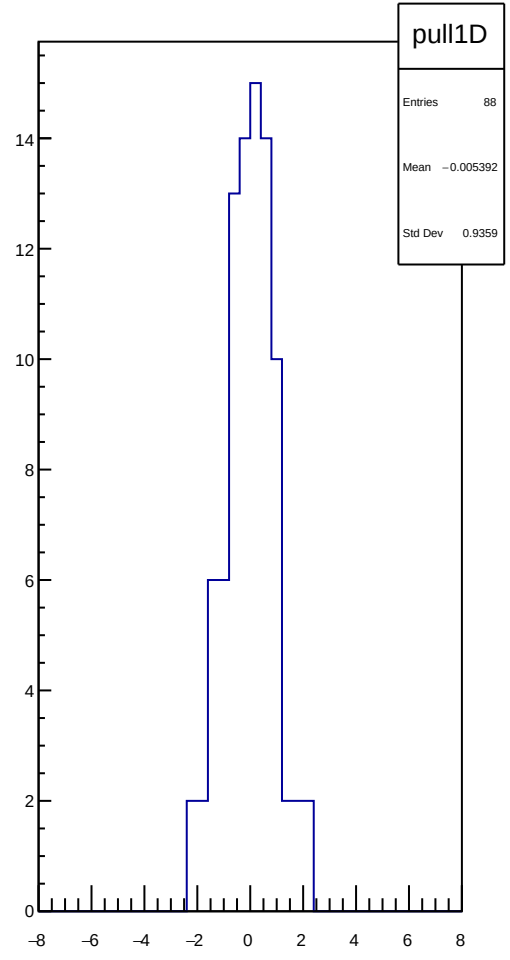

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3364 / 87
p0 3889 ± 3.026
4400
4200
4000
3800
3600

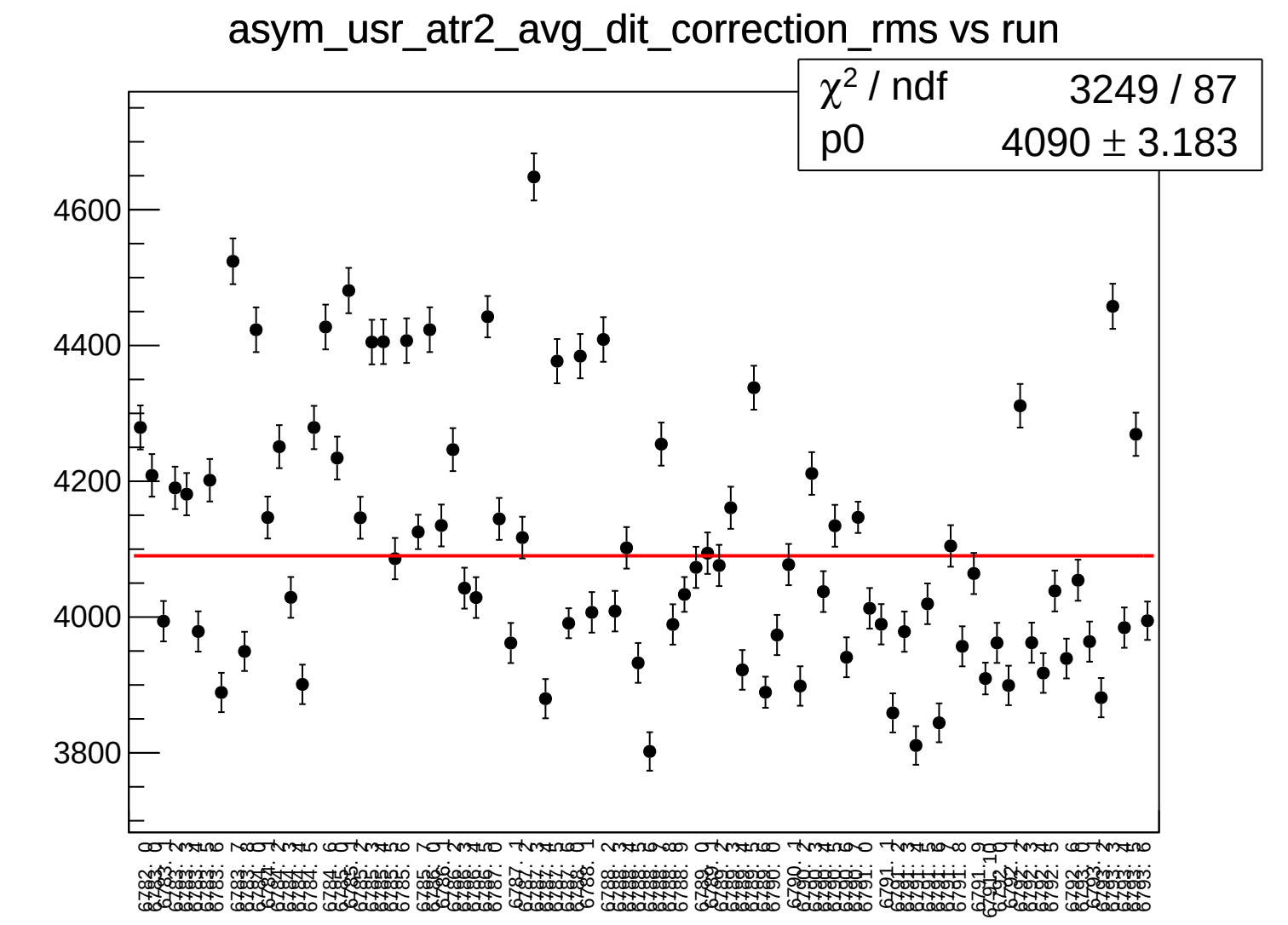

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.26 / 87
p0 −158.9 ± 1683
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 491.1
Std Dev 0
2
1
0
−1
−2

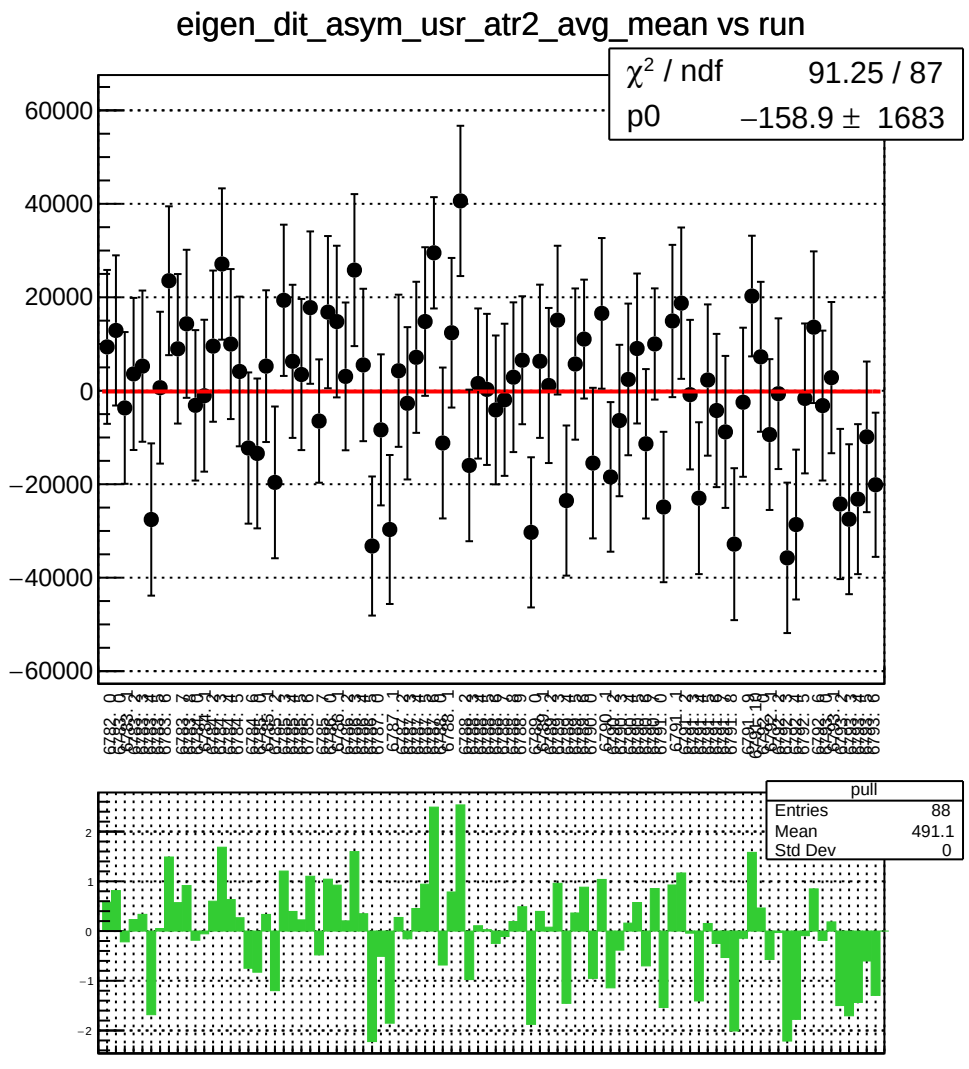

pull1D
Entries 88
Mean −0.01714
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

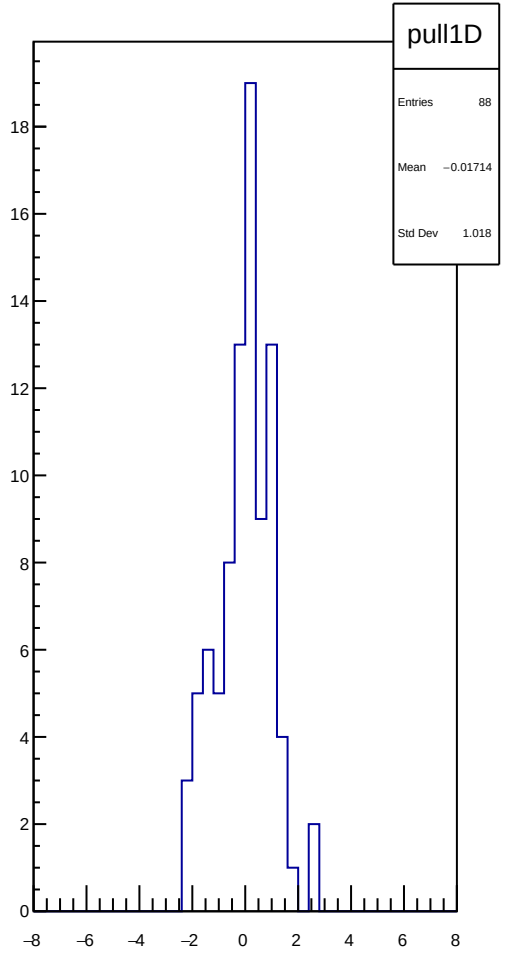

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 103.5 / 87
p0 1531 ± 1.19
1580
1560
1540
1520
1500
1480

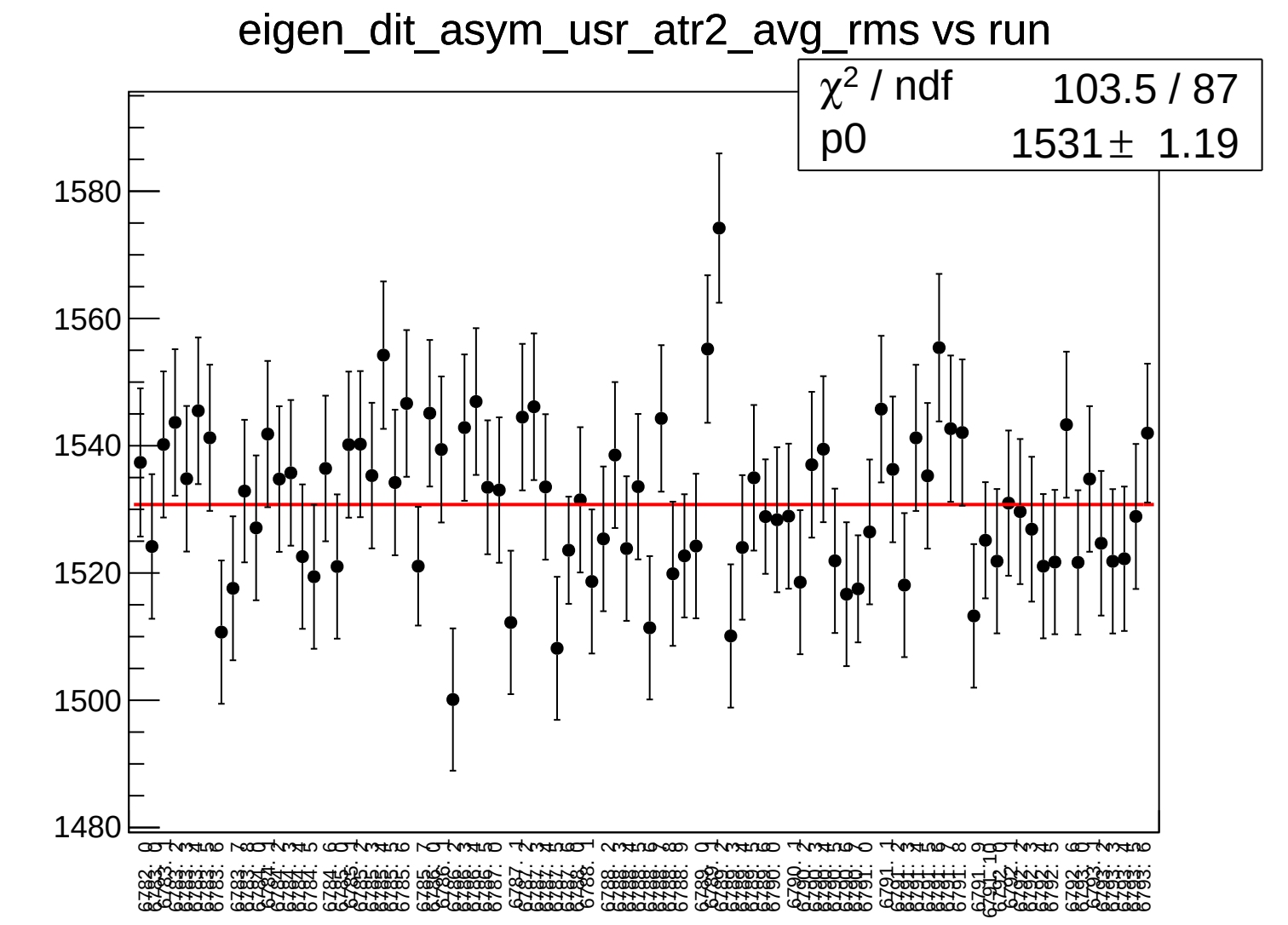

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.08 / 87
p0 −600 ± 4501
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 153.9
Std Dev 0
2
1
0
−1
−2

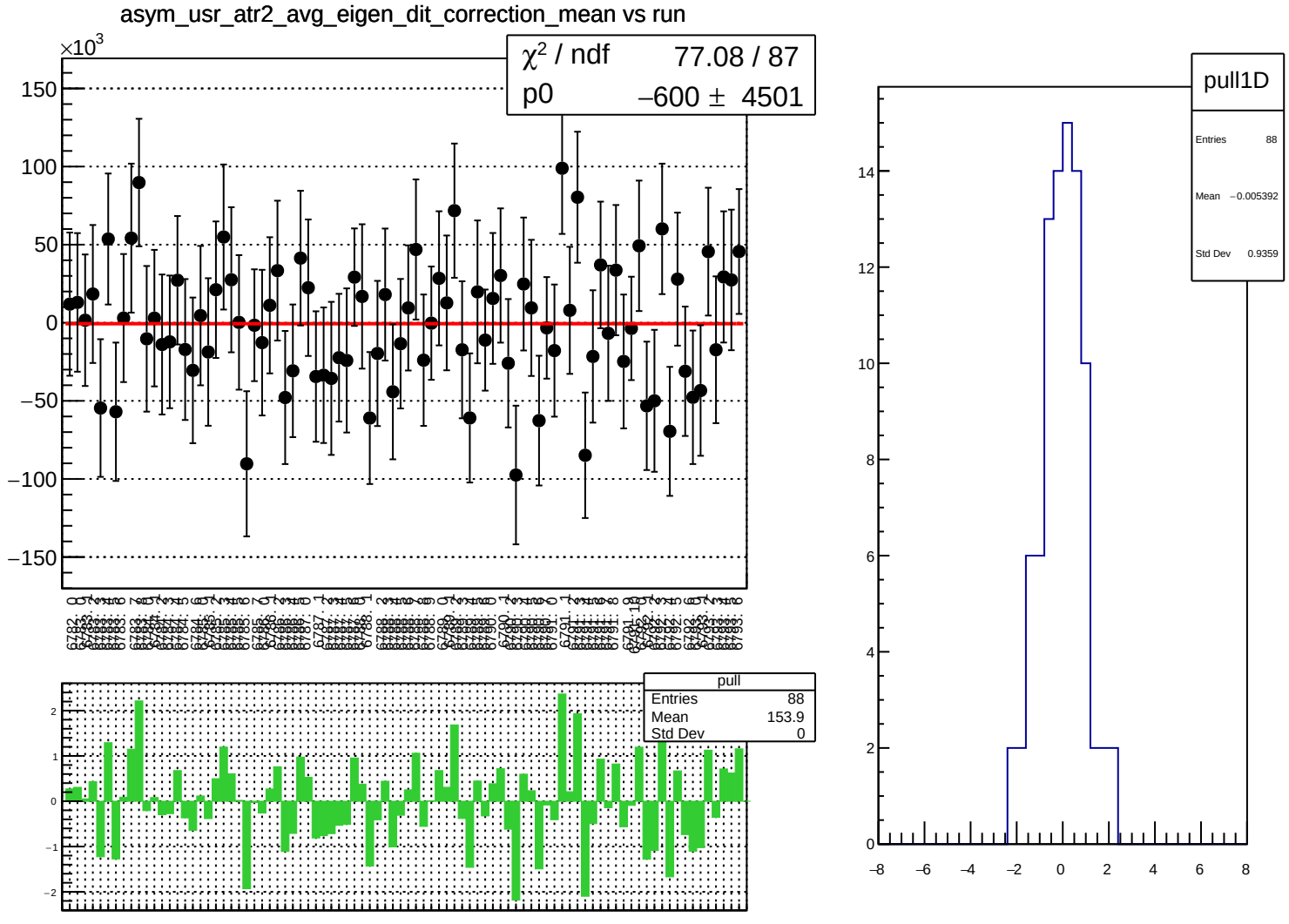

pull1D
Entries 88
Mean −0.005392
Std Dev 0.9359
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

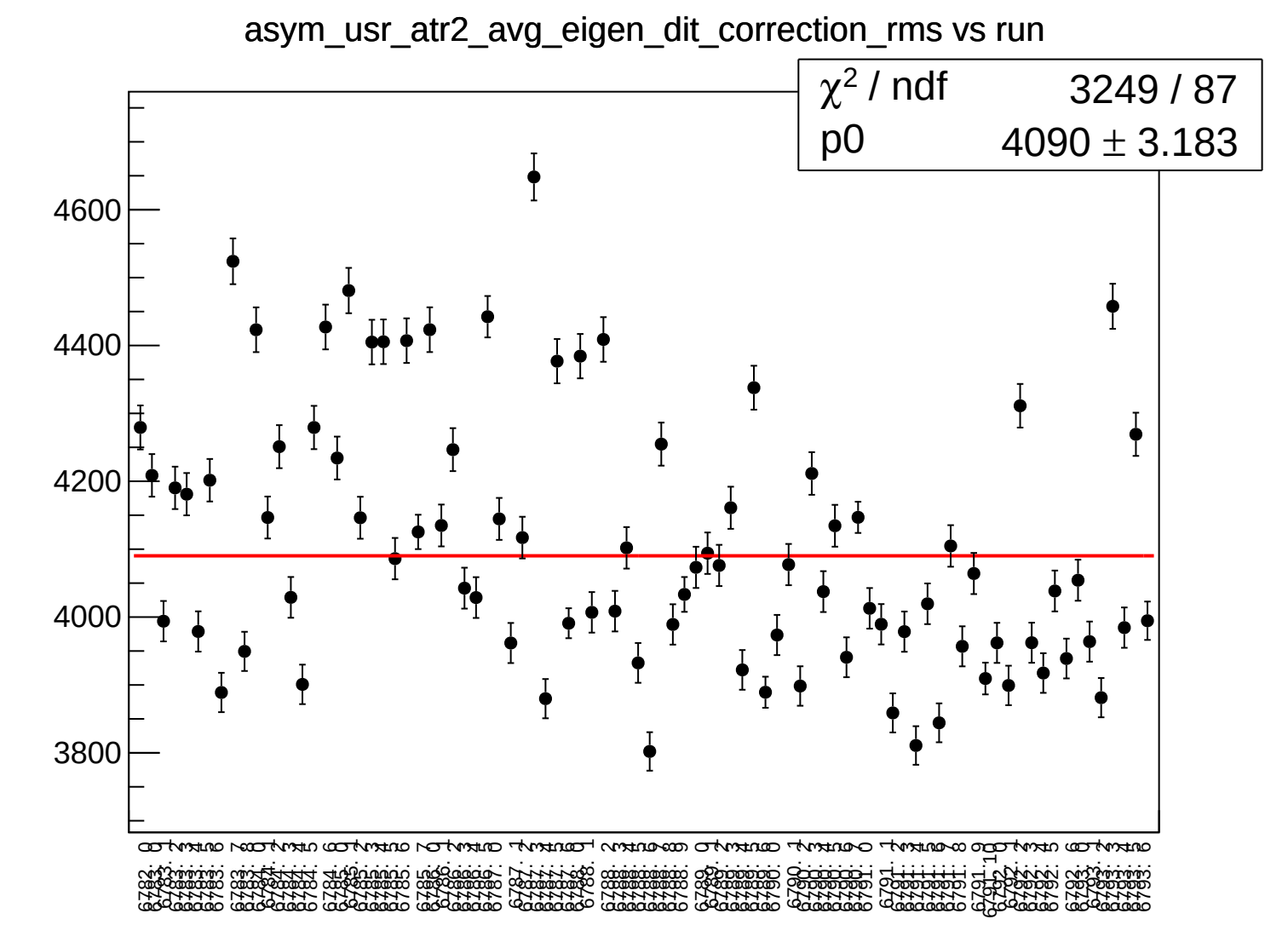

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3249 / 87
p0 4090 ± 3.183
4600
4400
4200
4000
3800

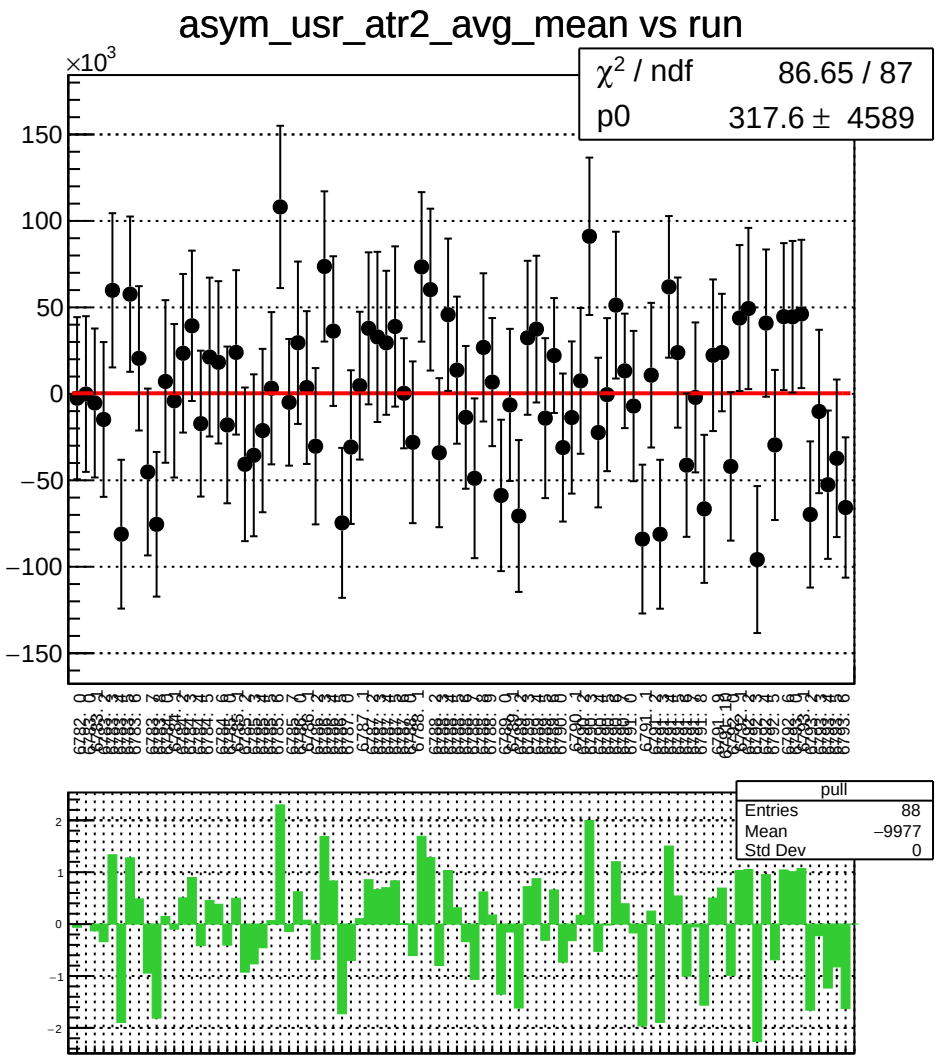

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.25 / 87
p0 −158.9 ± 1683
pull
Entries 88
Mean 491.1
Std Dev 0

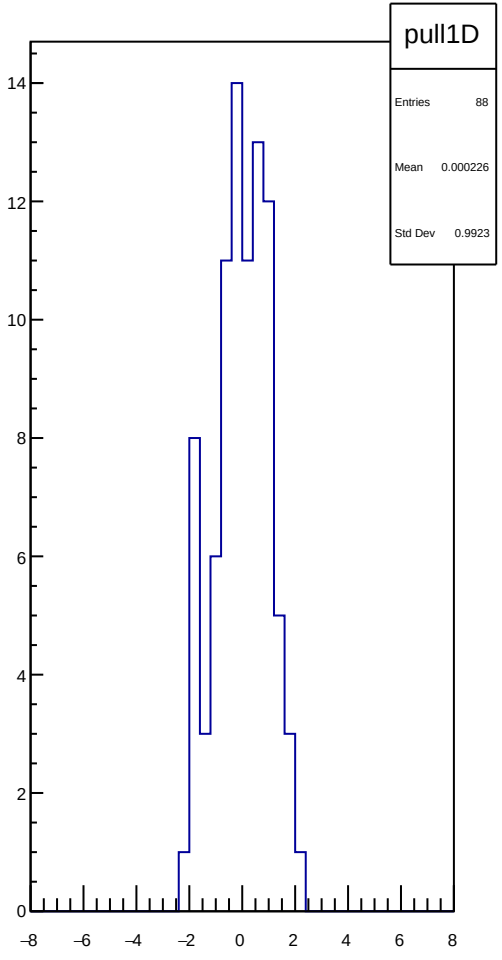

pull1D
Entries 88
Mean −0.01714
Std Dev 1.018

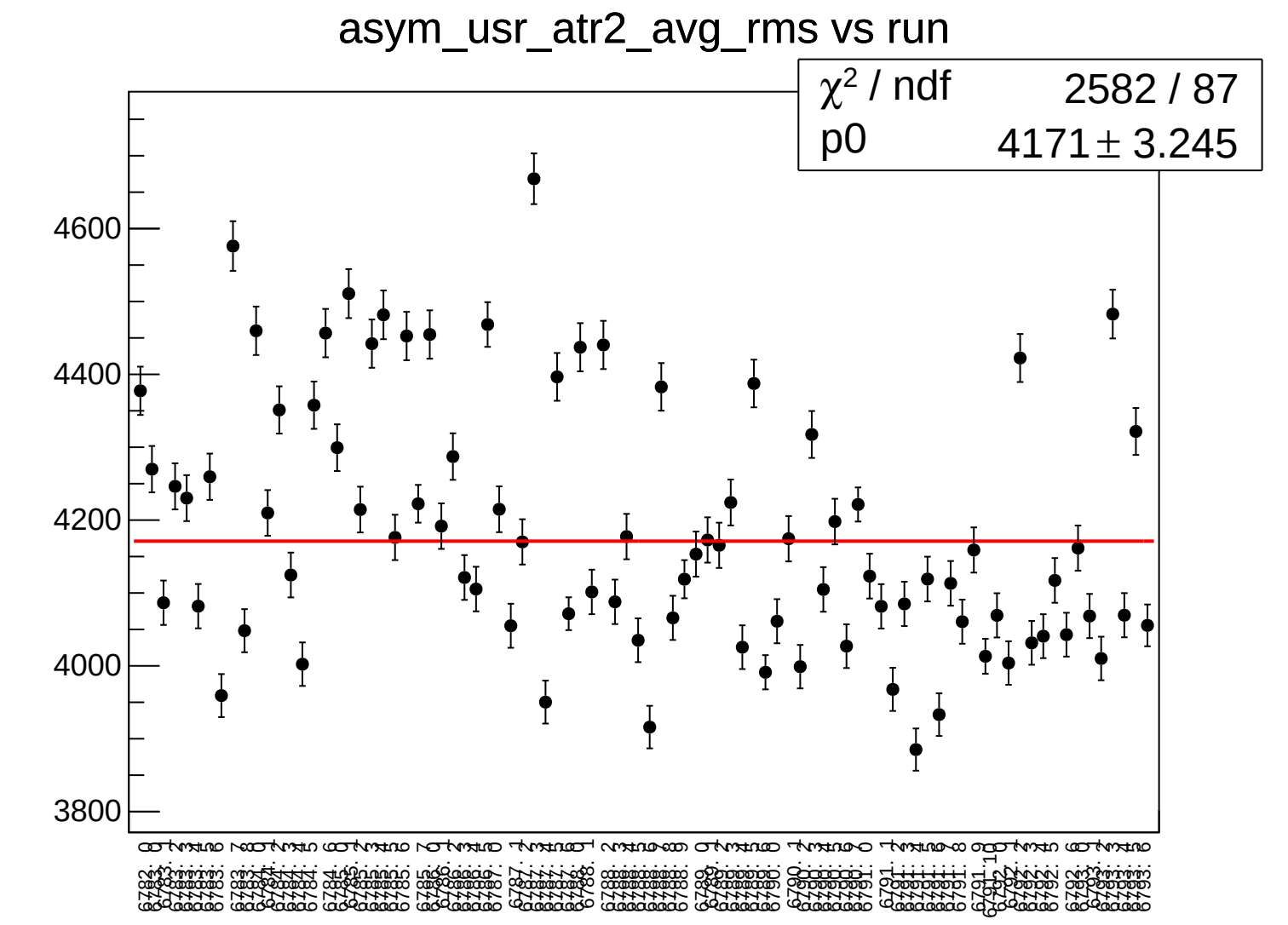

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 103.5 / 87
p0 1531 ± 1.19
1580
1560
1540
1520
1500
1480

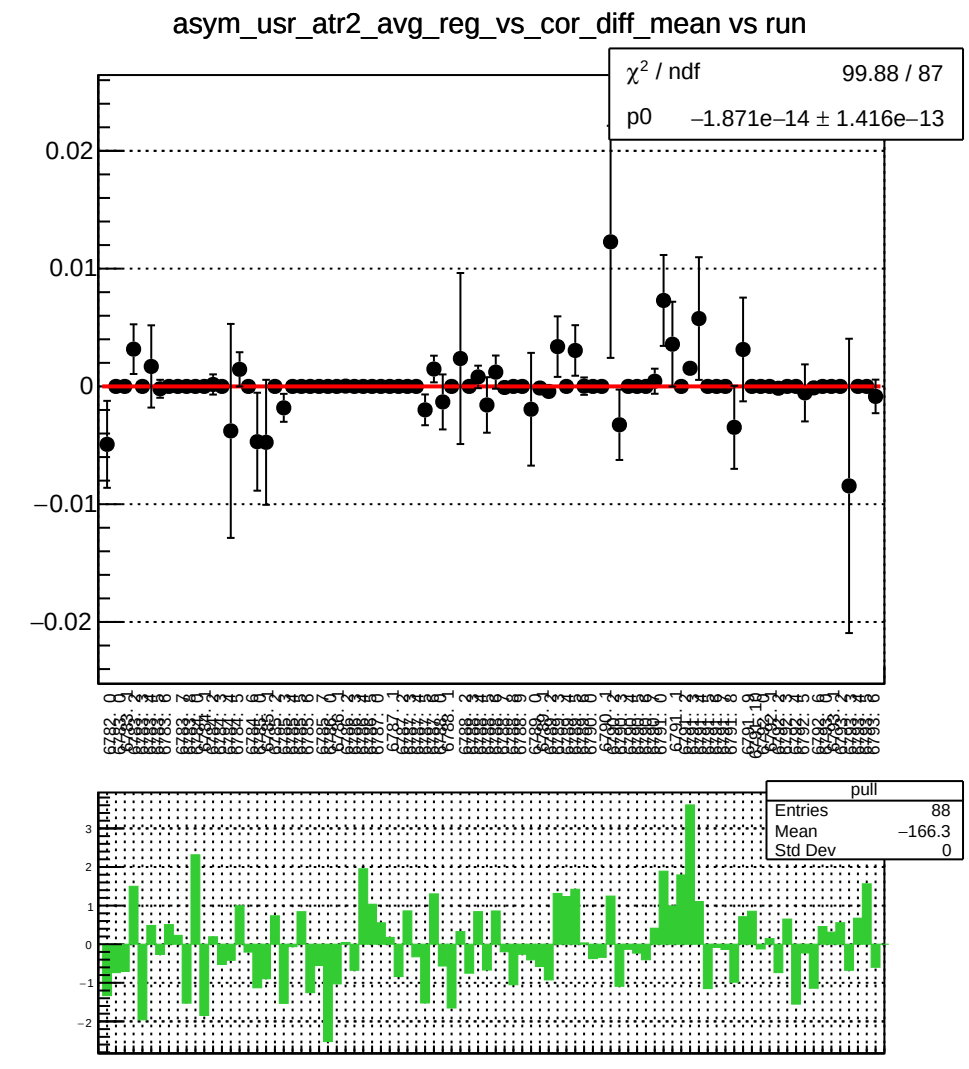

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.08 / 87
p0 −600 ± 4501
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 153.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005392
Std Dev 0.9359
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

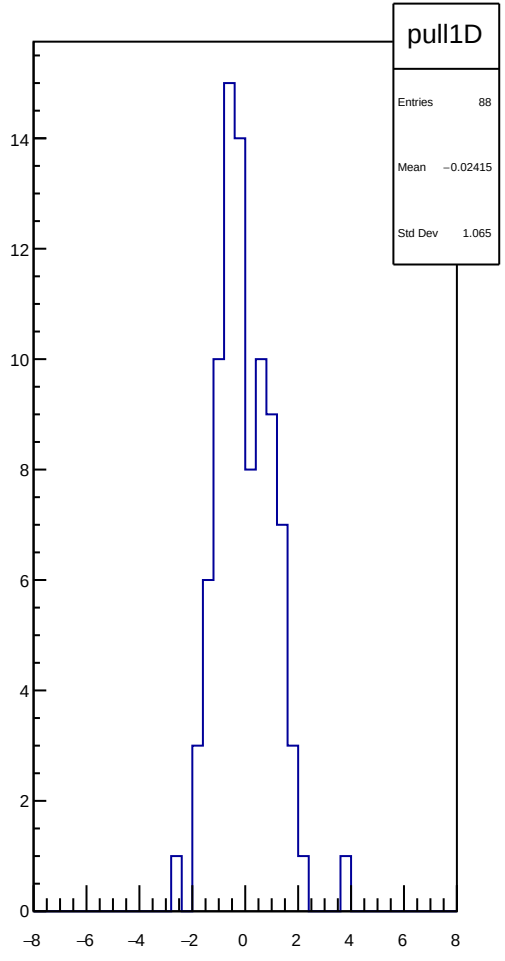

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3249 / 87
p0 4090 ± 3.183
4600
4400
4200
4000
3800

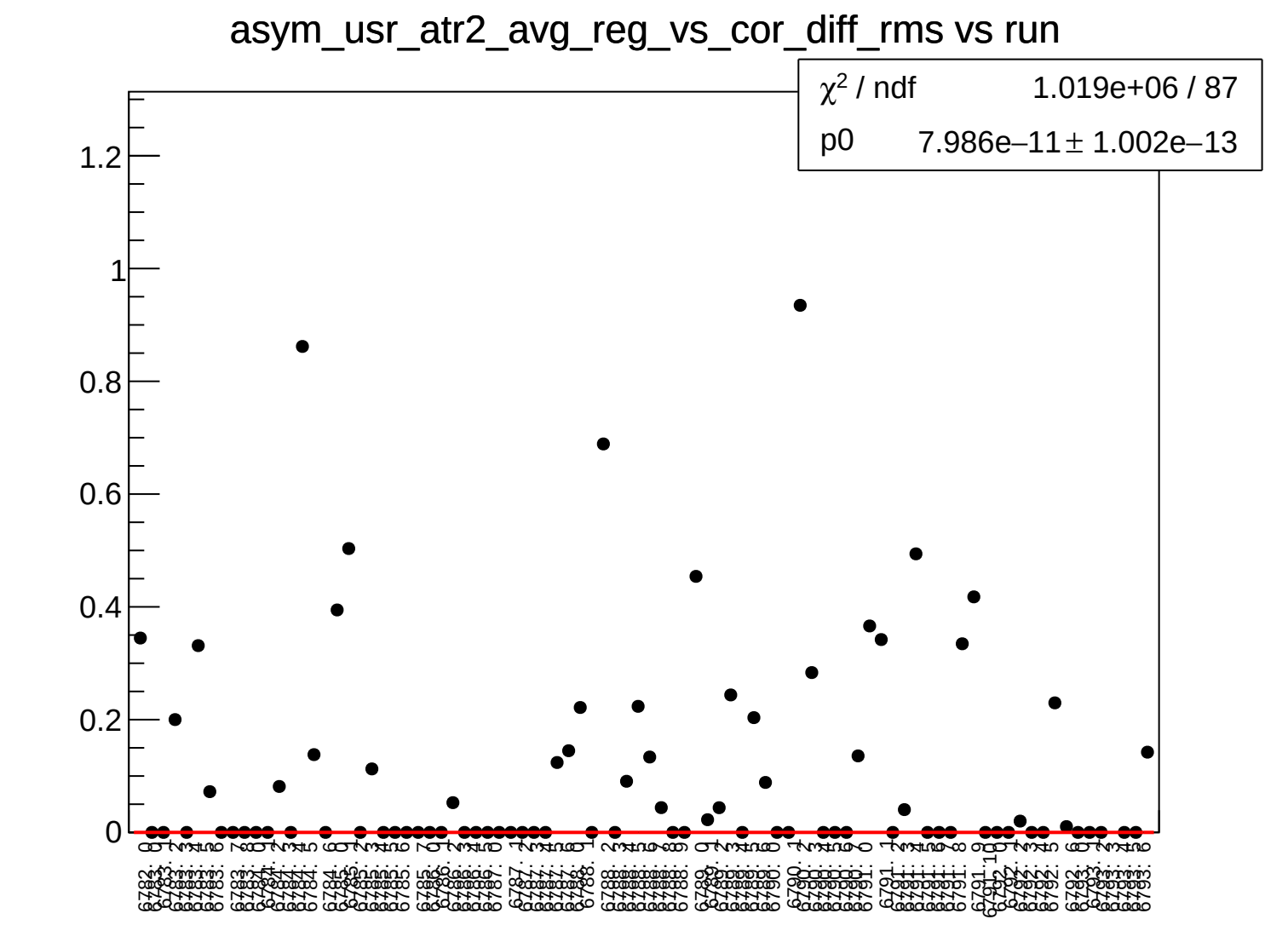

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 86.65 / 87
p0 317.6 ± 4589
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −9977
Std Dev 0
2
1
0
−1
−2

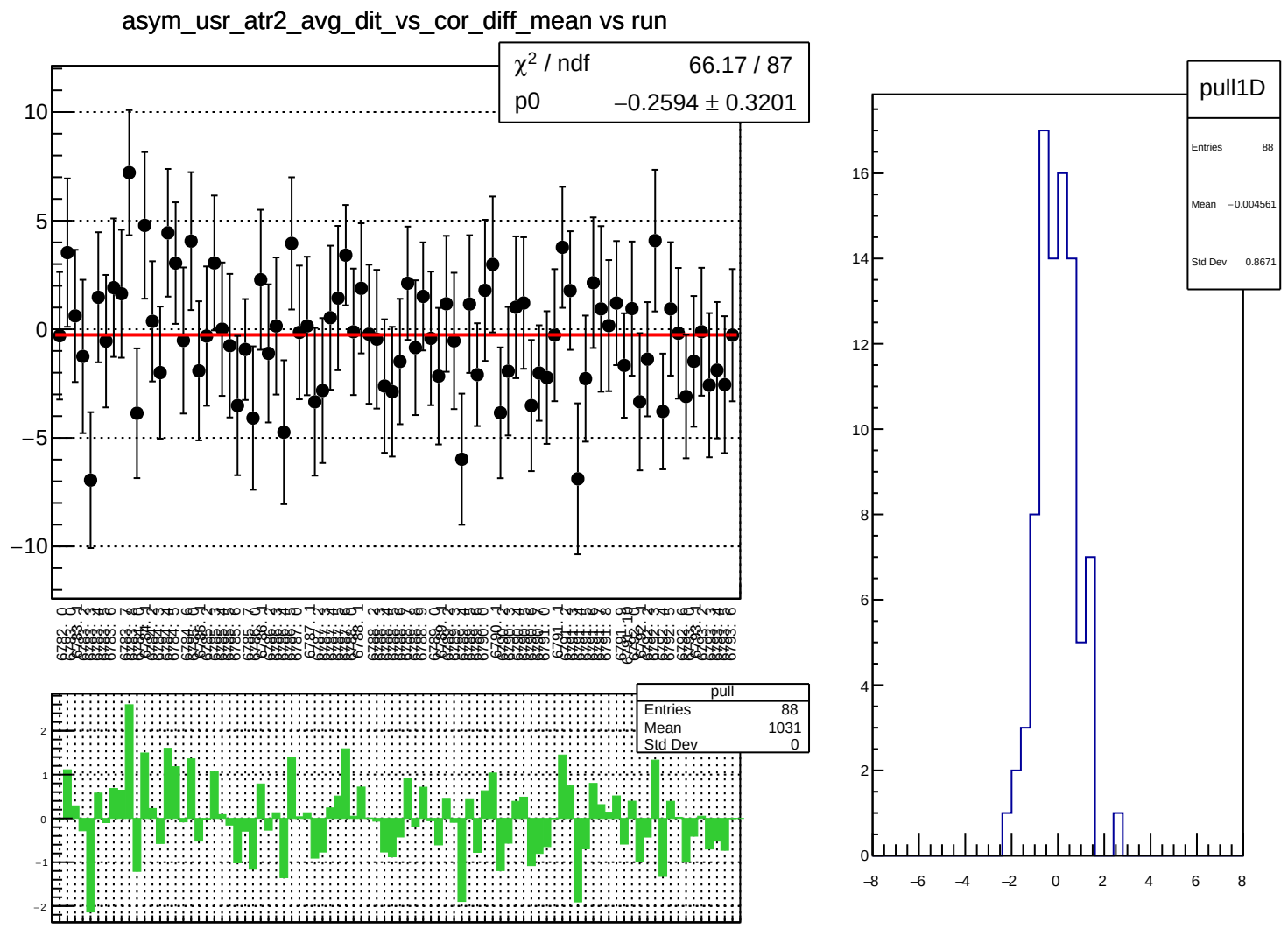

pull1D
Entries 88
Mean 0.000226
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

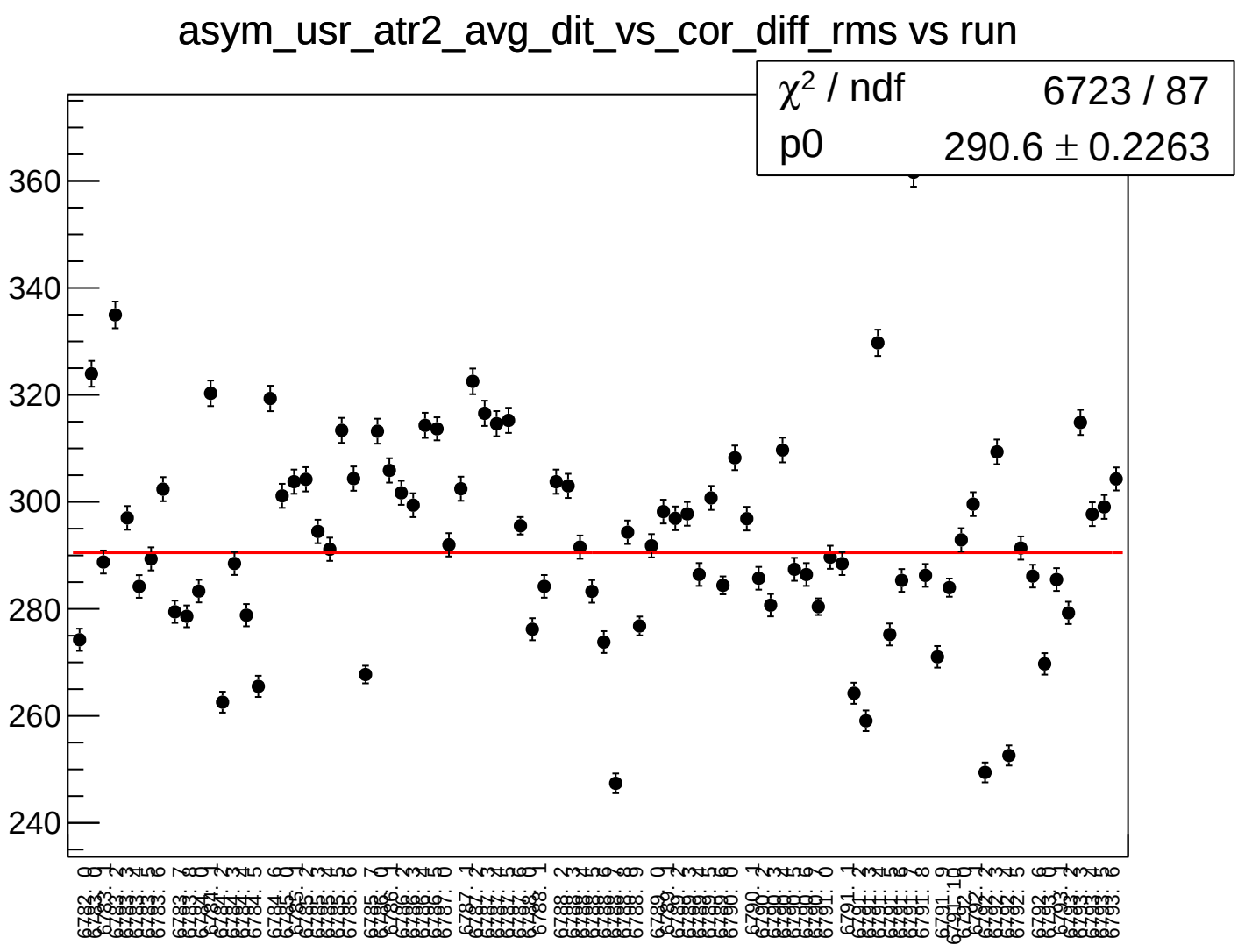

asym_usr_atr2_avg_rms vs run
χ² / ndf 2582 / 87
p0 4171 ± 3.245
4600
4400
4200
4000
3800

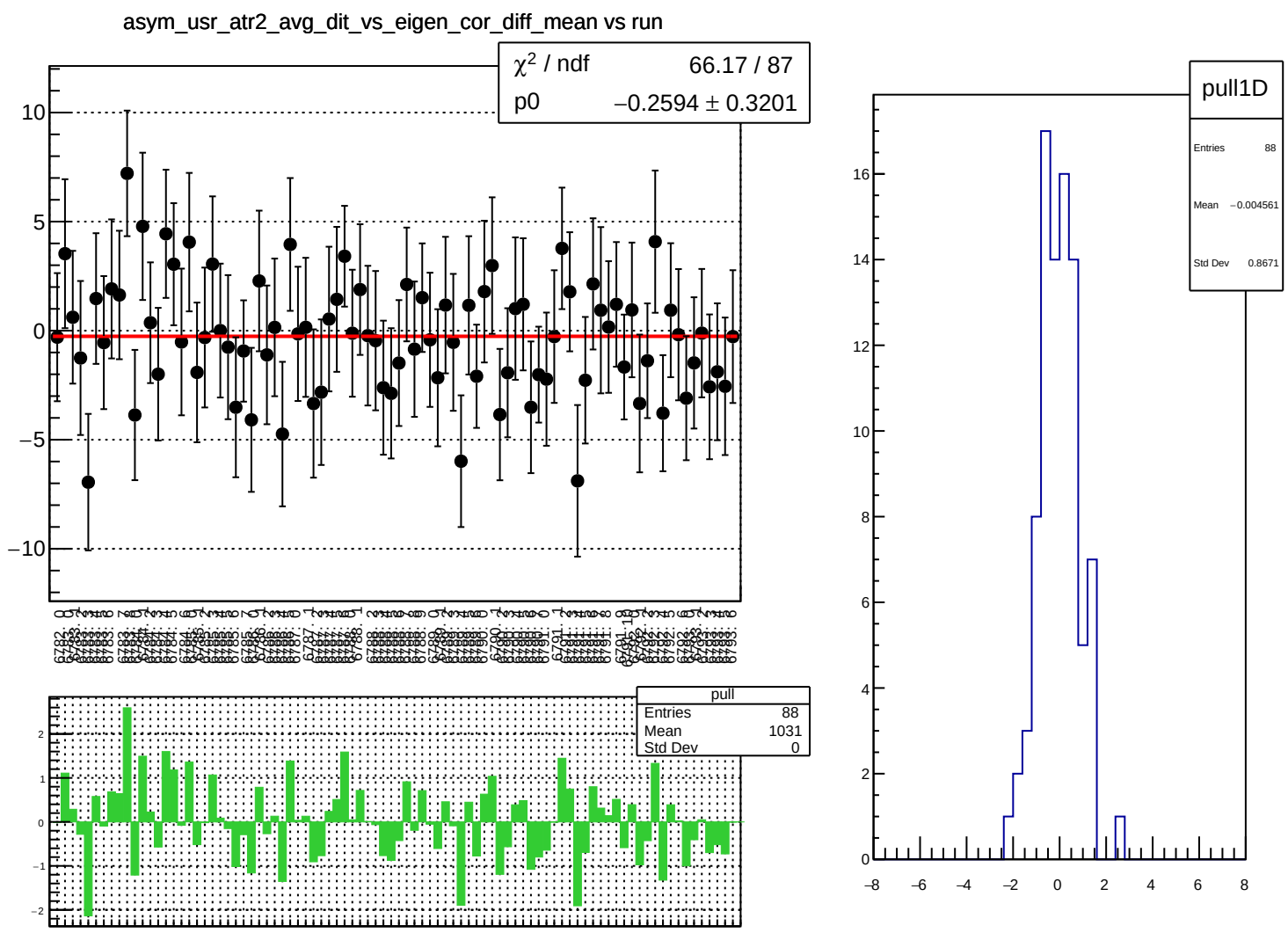

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.88 / 87
p0 −1.871e−14 ± 1.416e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean −166.3
Std Dev 0
3
2
1
0
−1
−2

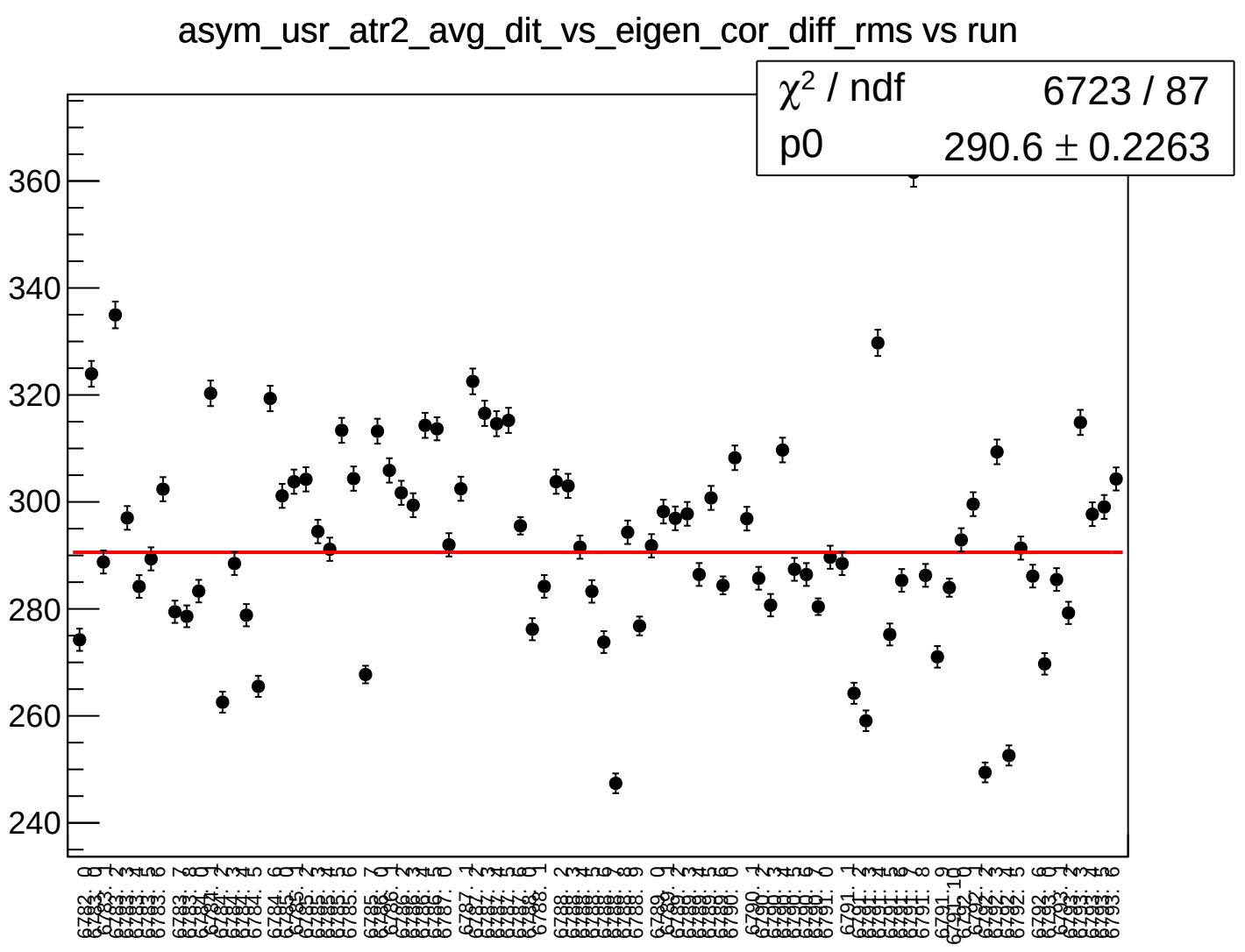

pull1D
Entries 88
Mean −0.02415
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

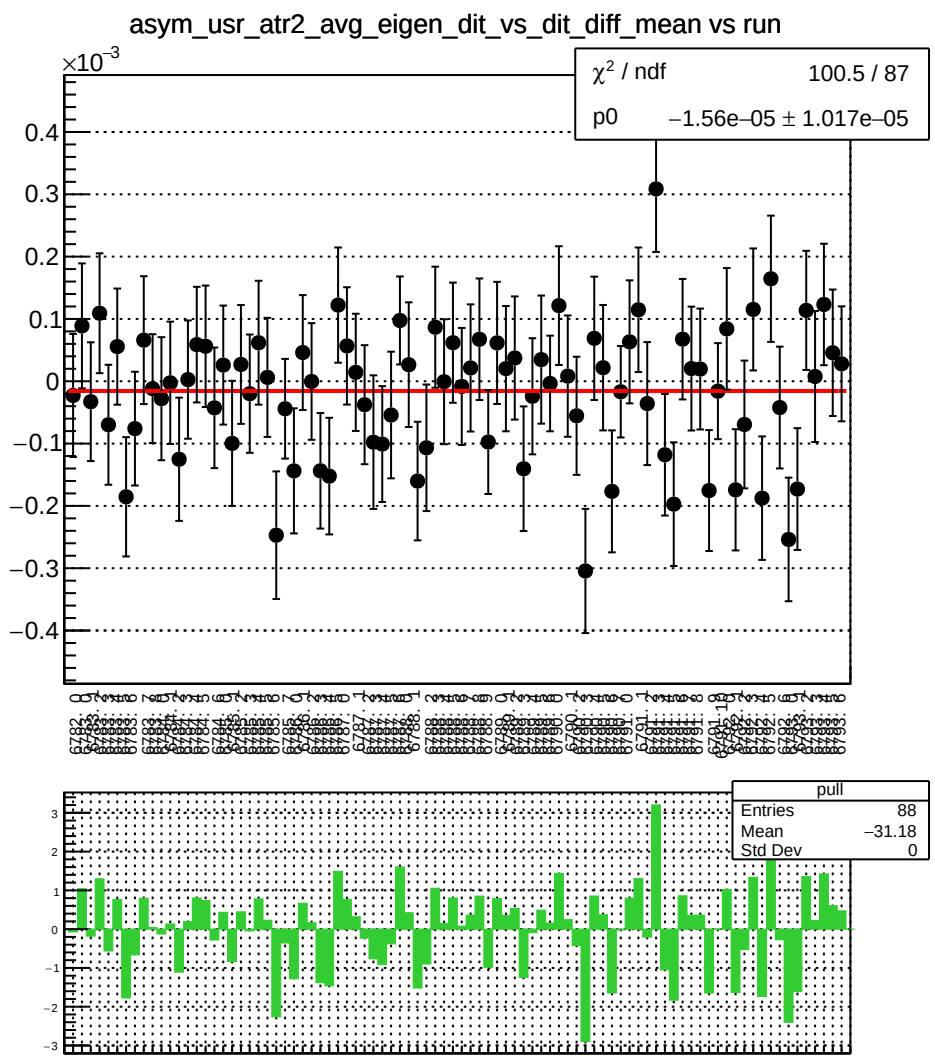

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 87
p0 7.986e−11 ± 1.002e−13
1.2
1
0.8
0.6
0.4
0.2
0

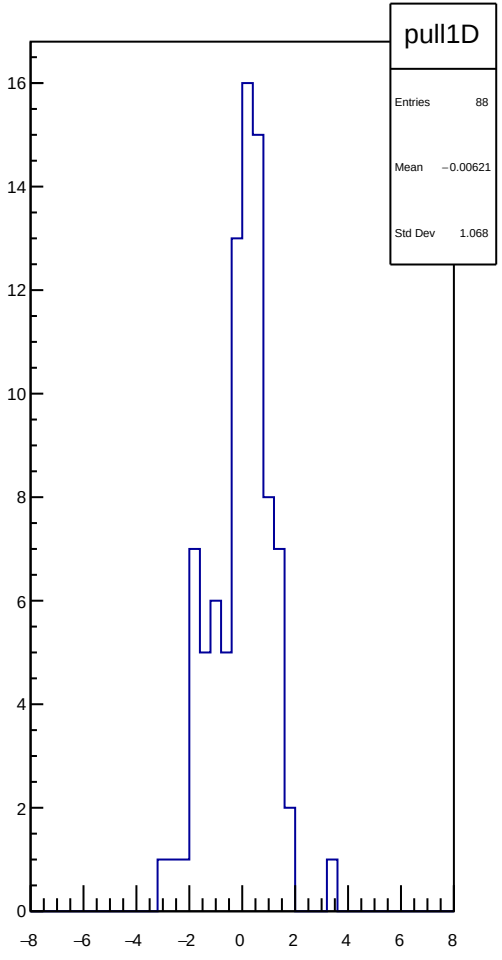

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.17 / 87
p0 −0.2594 ± 0.3201
pull
Entries 88
Mean 1031
Std Dev 0
pull1D
Entries 88
Mean −0.004561
Std Dev 0.8671

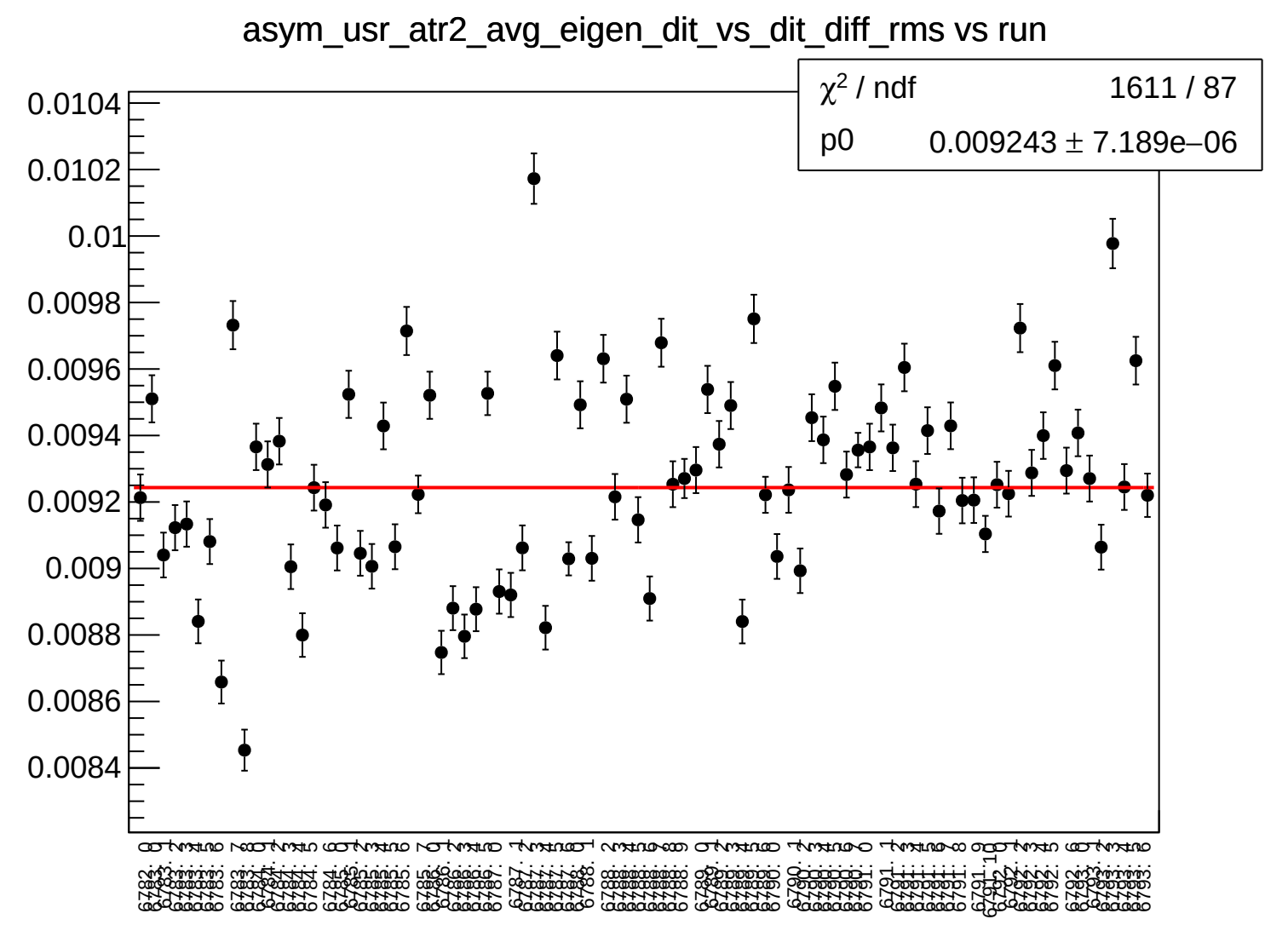

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6723 / 87
p0 290.6 ± 0.2263
360
340
320
300
280
260
240

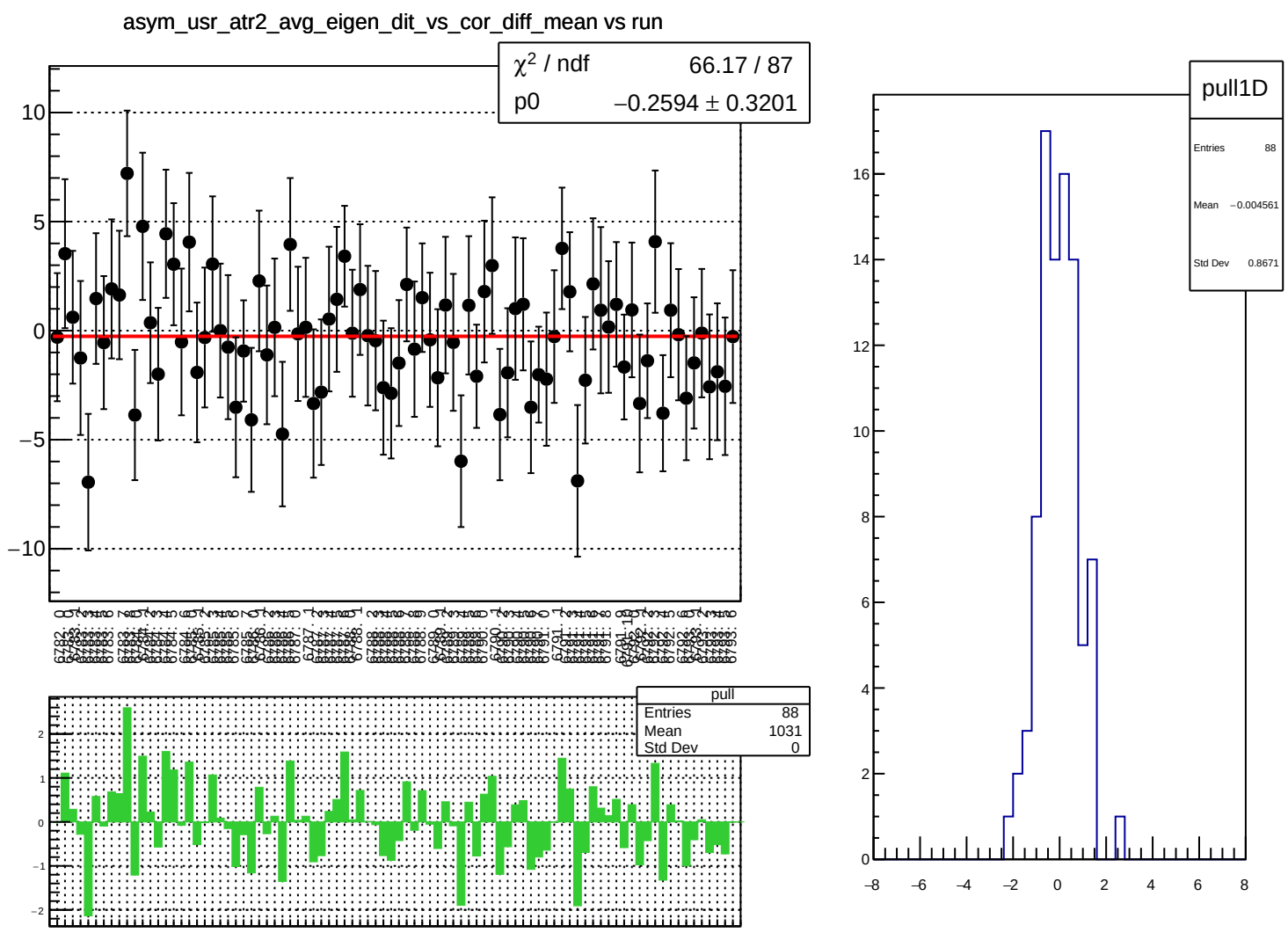

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.17 / 87
p0 −0.2594 ± 0.3201
pull
Entries 88
Mean 1031
Std Dev 0
pull1D
Entries 88
Mean −0.004561
Std Dev 0.8671

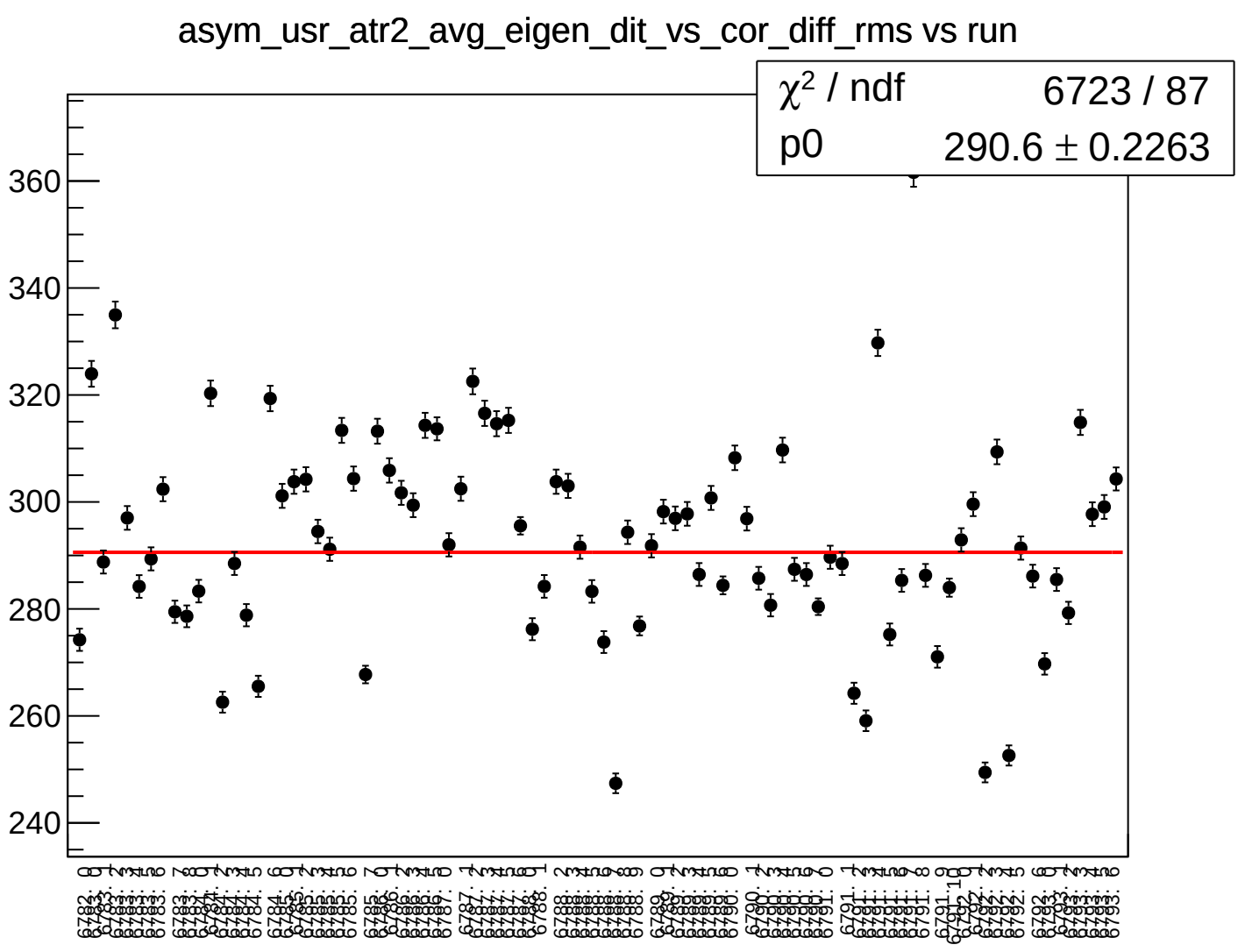

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6723 / 87
p0 290.6 ± 0.2263
360
340
320
300
280
260
240

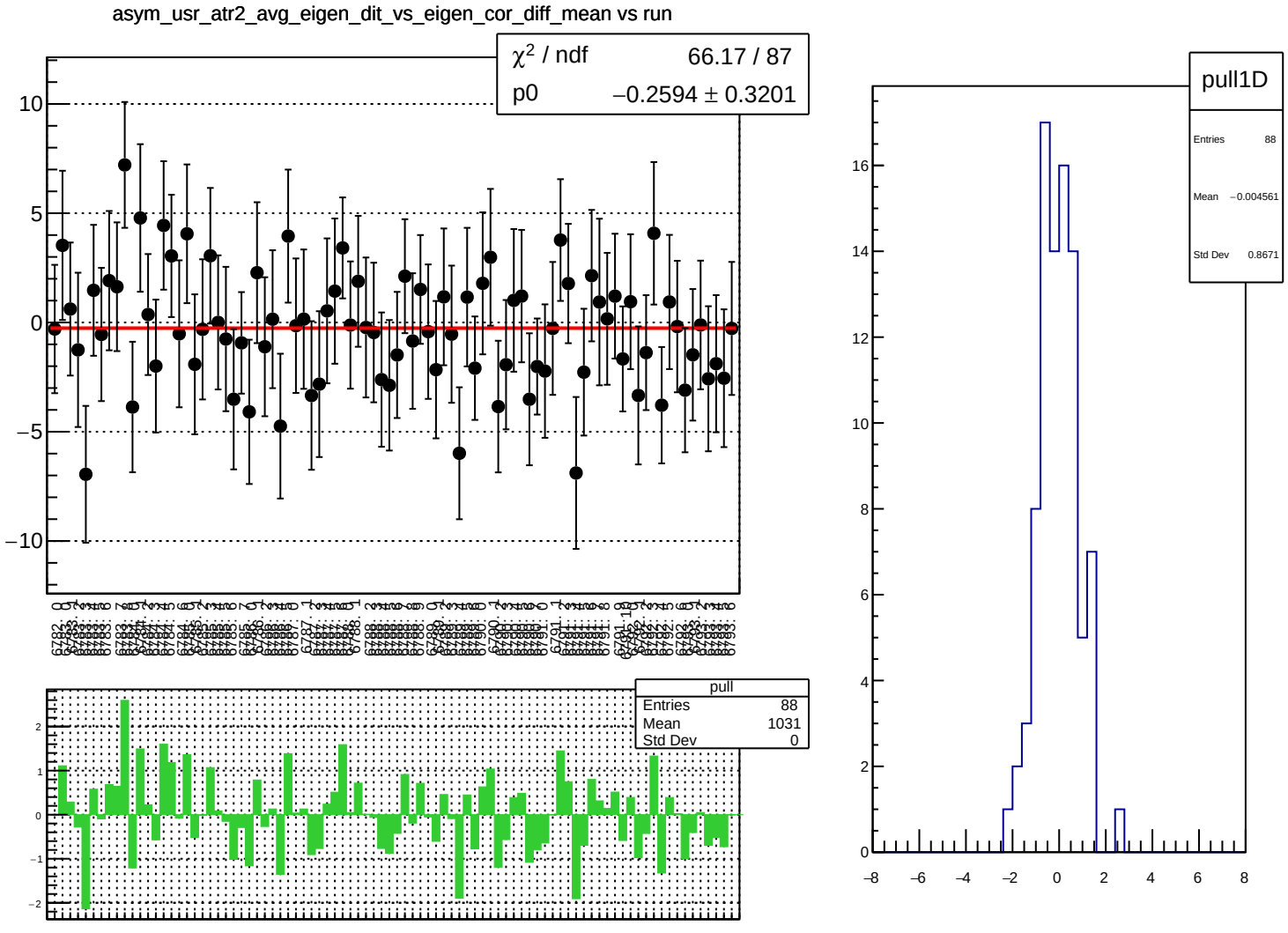

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.5 / 87
p0 −1.56e−05 ± 1.017e−05
pull
Entries 88
Mean −31.18
Std Dev 0

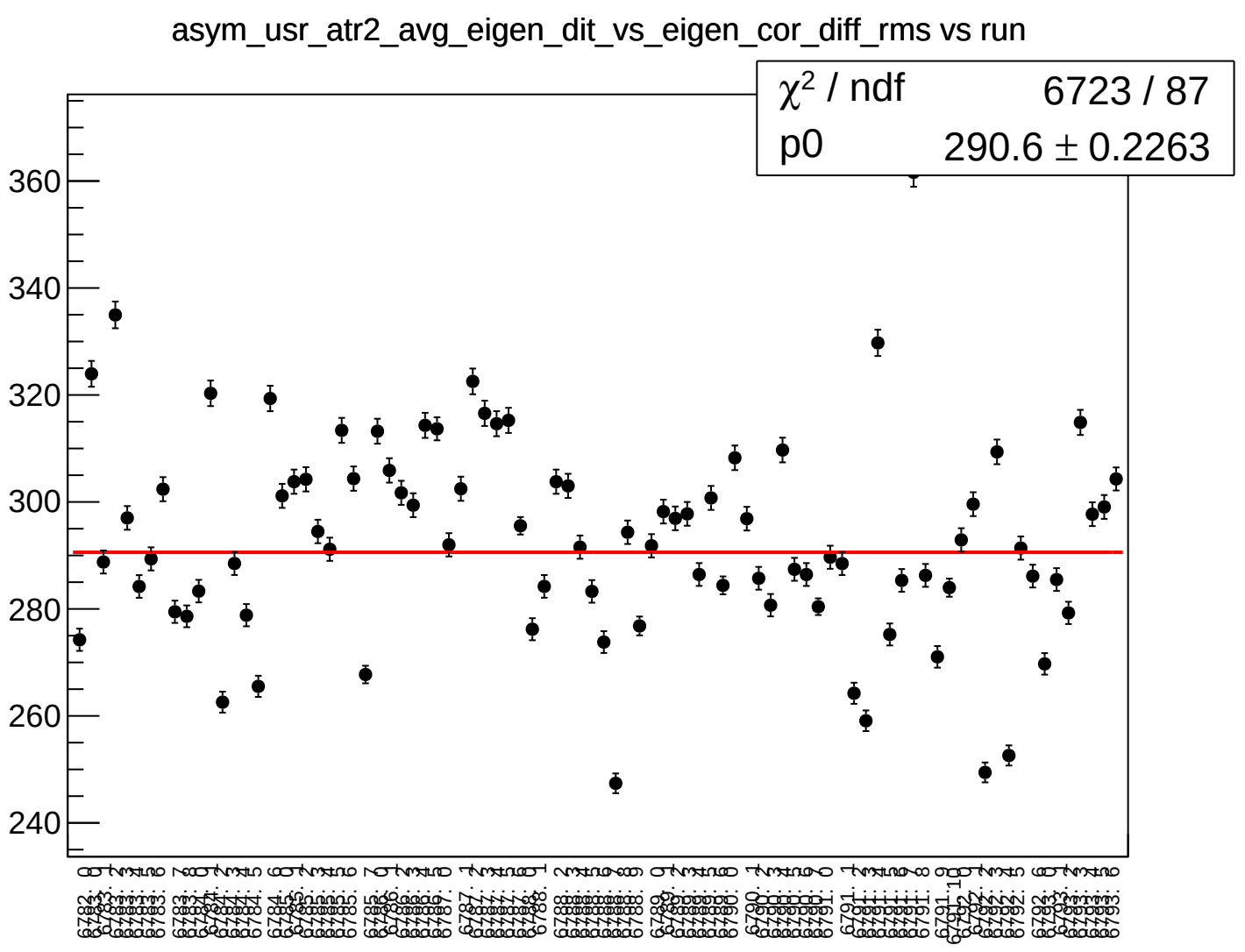

pull1D
Entries 88
Mean −0.00621
Std Dev 1.068

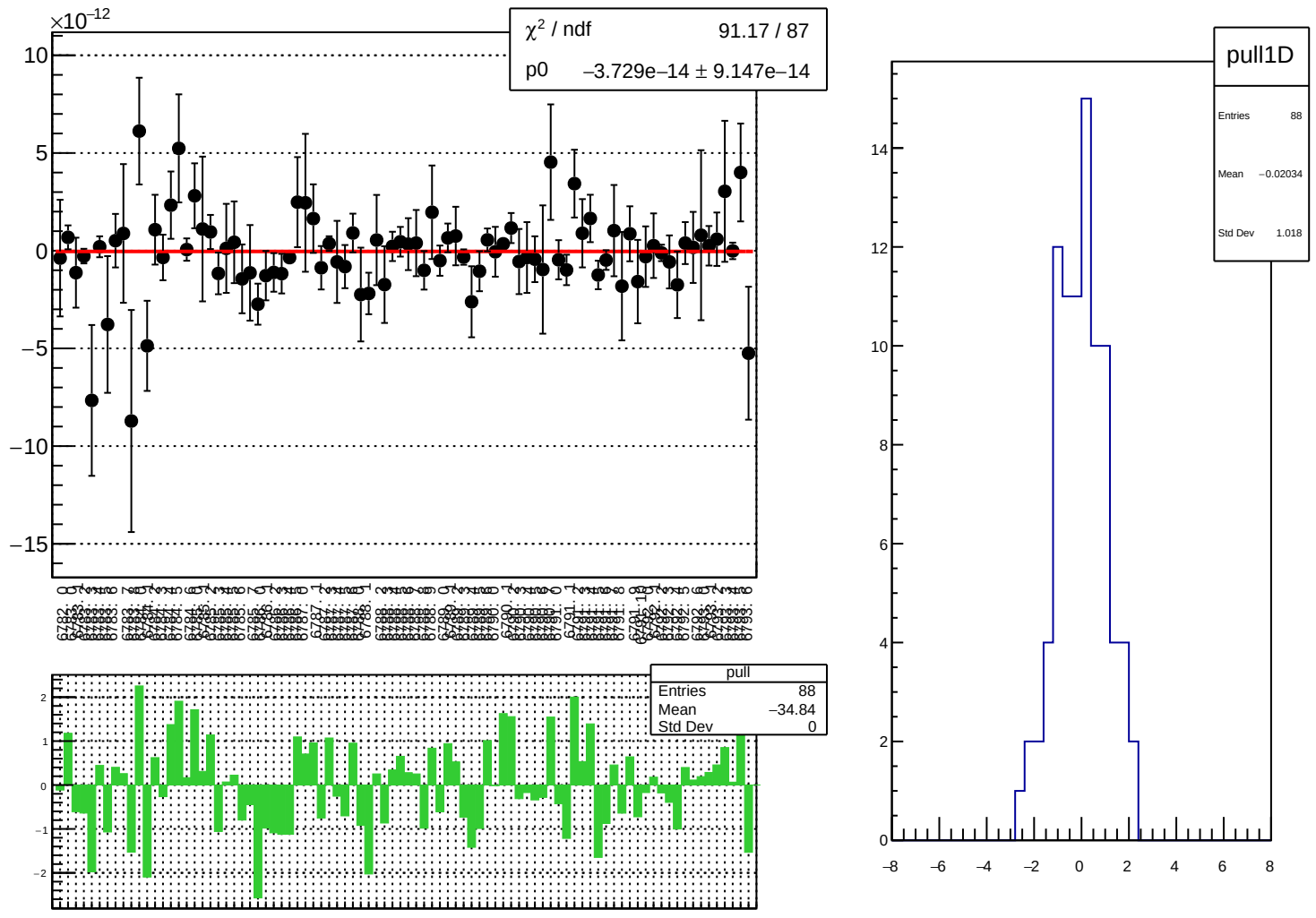

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1611 / 87
p0 0.009243 ± 7.189e−06
0.0104
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084

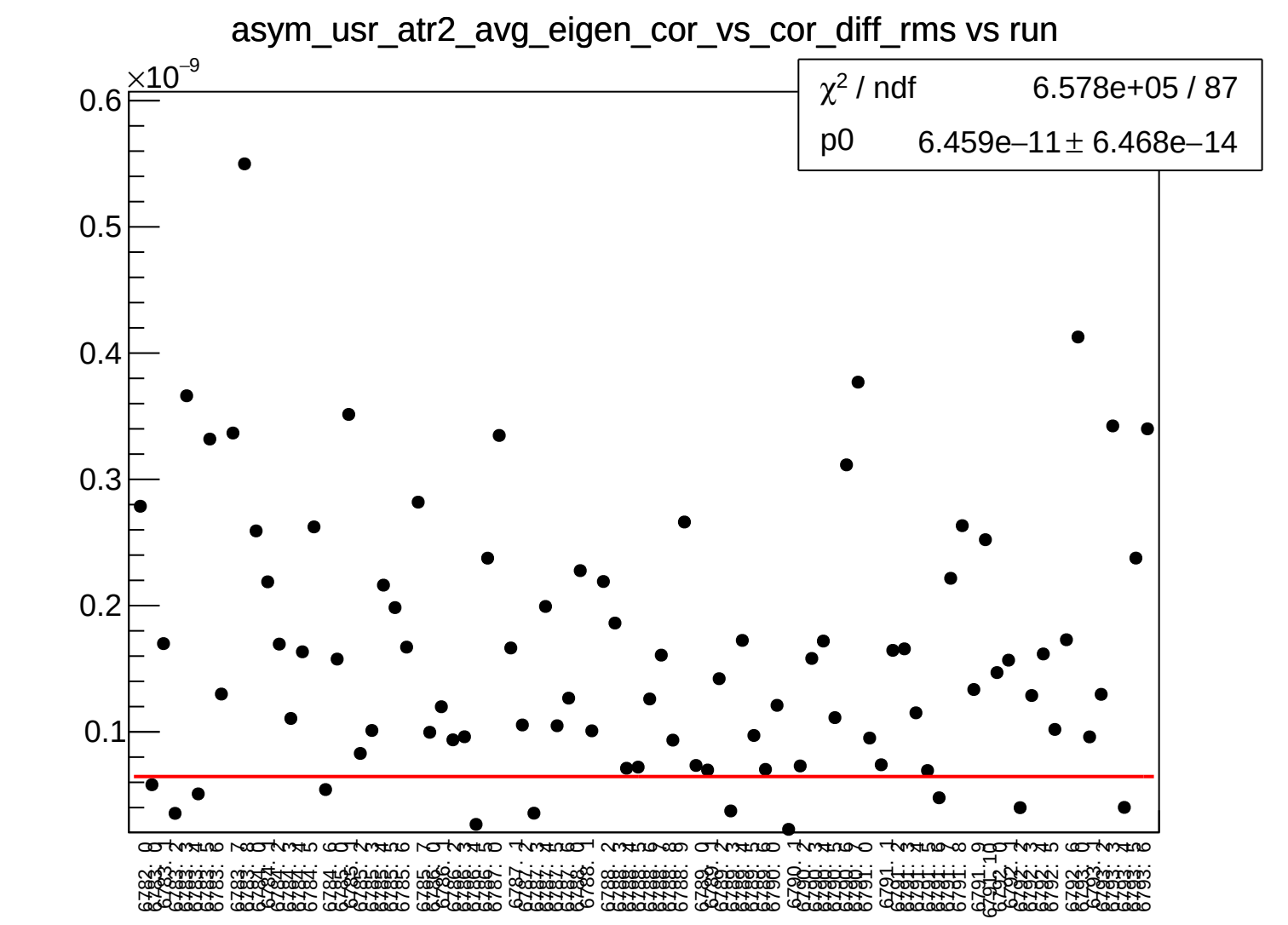

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.17 / 87
p0 −0.2594 ± 0.3201
pull
Entries 88
Mean 1031
Std Dev 0
pull1D
Entries 88
Mean −0.004561
Std Dev 0.8671

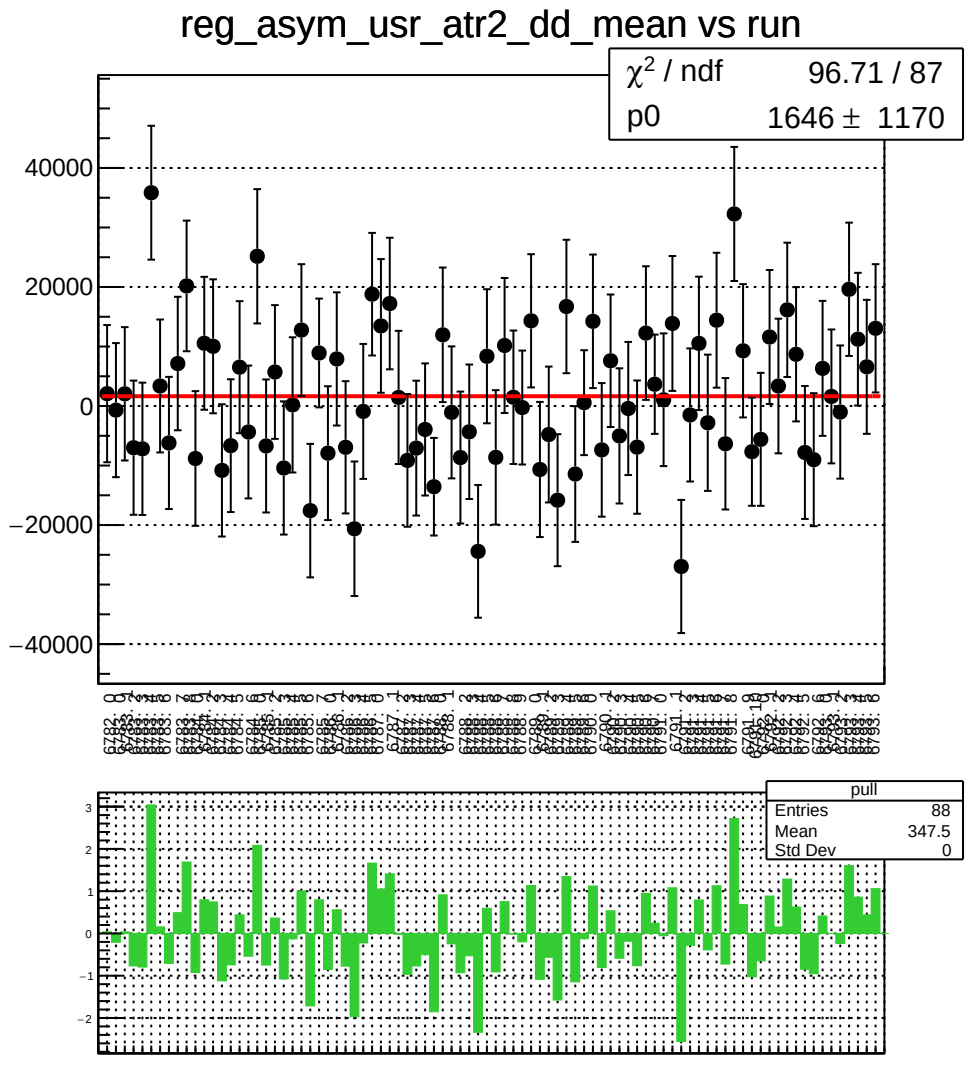

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6723 / 87
p0 290.6 ± 0.2263
360
340
320
300
280
260
240

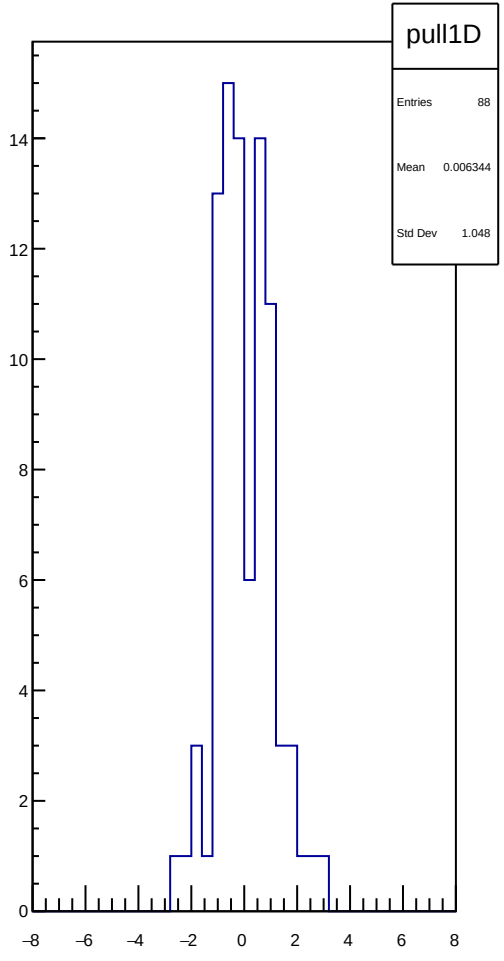

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.17 / 87
p0 −0.2594 ± 0.3201
pull
Entries 88
Mean 1031
Std Dev 0
pull1D
Entries 88
Mean −0.004561
Std Dev 0.8671

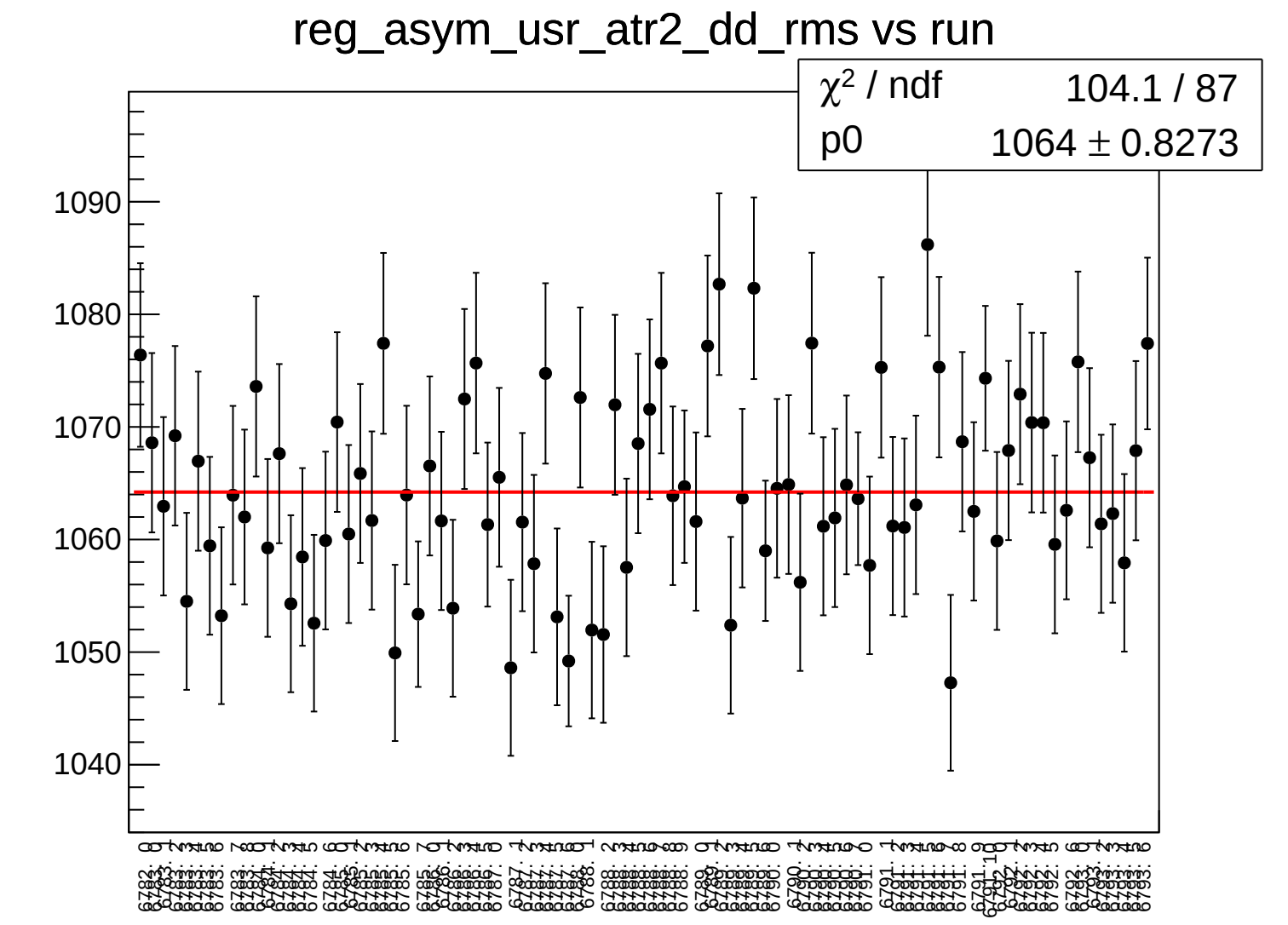

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6723 / 87
p0 290.6 ± 0.2263
360
340
320
300
280
260
240

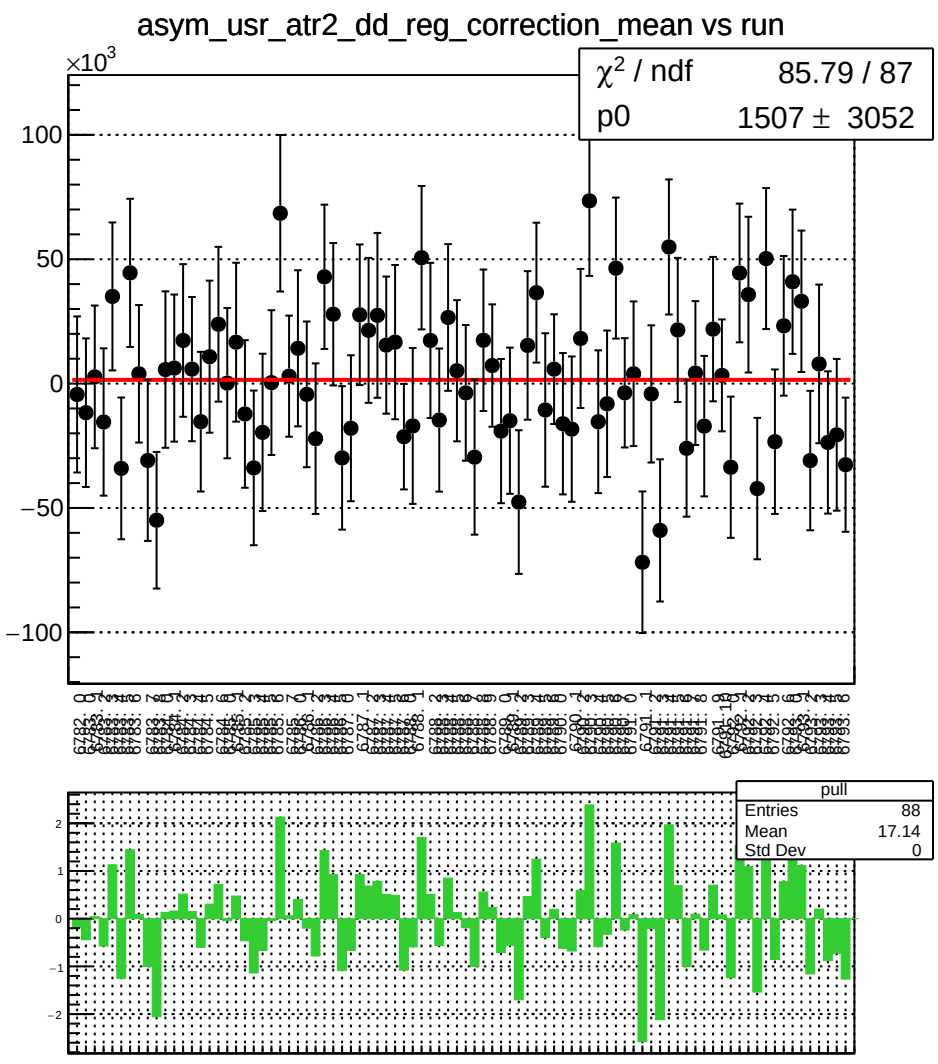

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.17 / 87
p0 −3.729e−14 ± 9.147e−14
pull
Entries 88
Mean −34.84
Std Dev 0
pull1D
Entries 88
Mean −0.02034
Std Dev 1.018

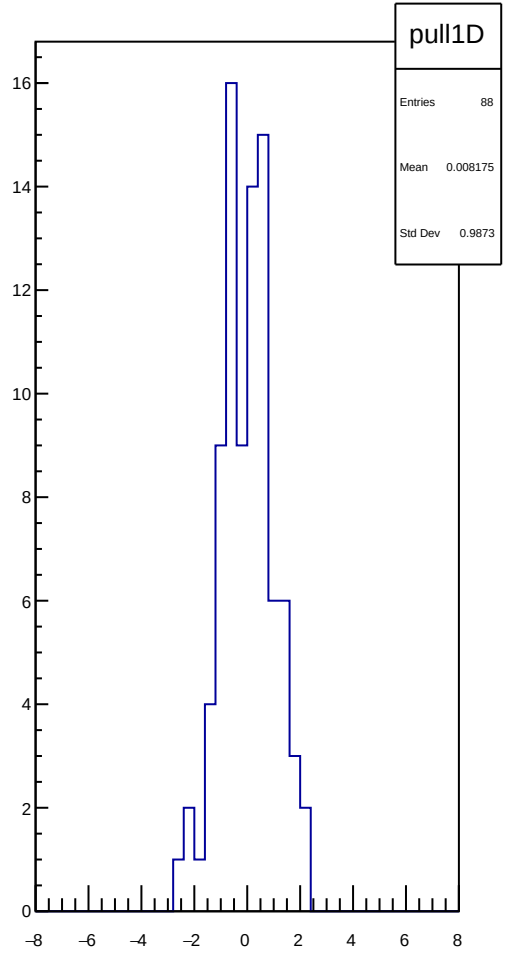

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.578e+05 / 87
p0 6.459e−11 ± 6.468e−14
0.6
0.5
0.4
0.3
0.2
0.1

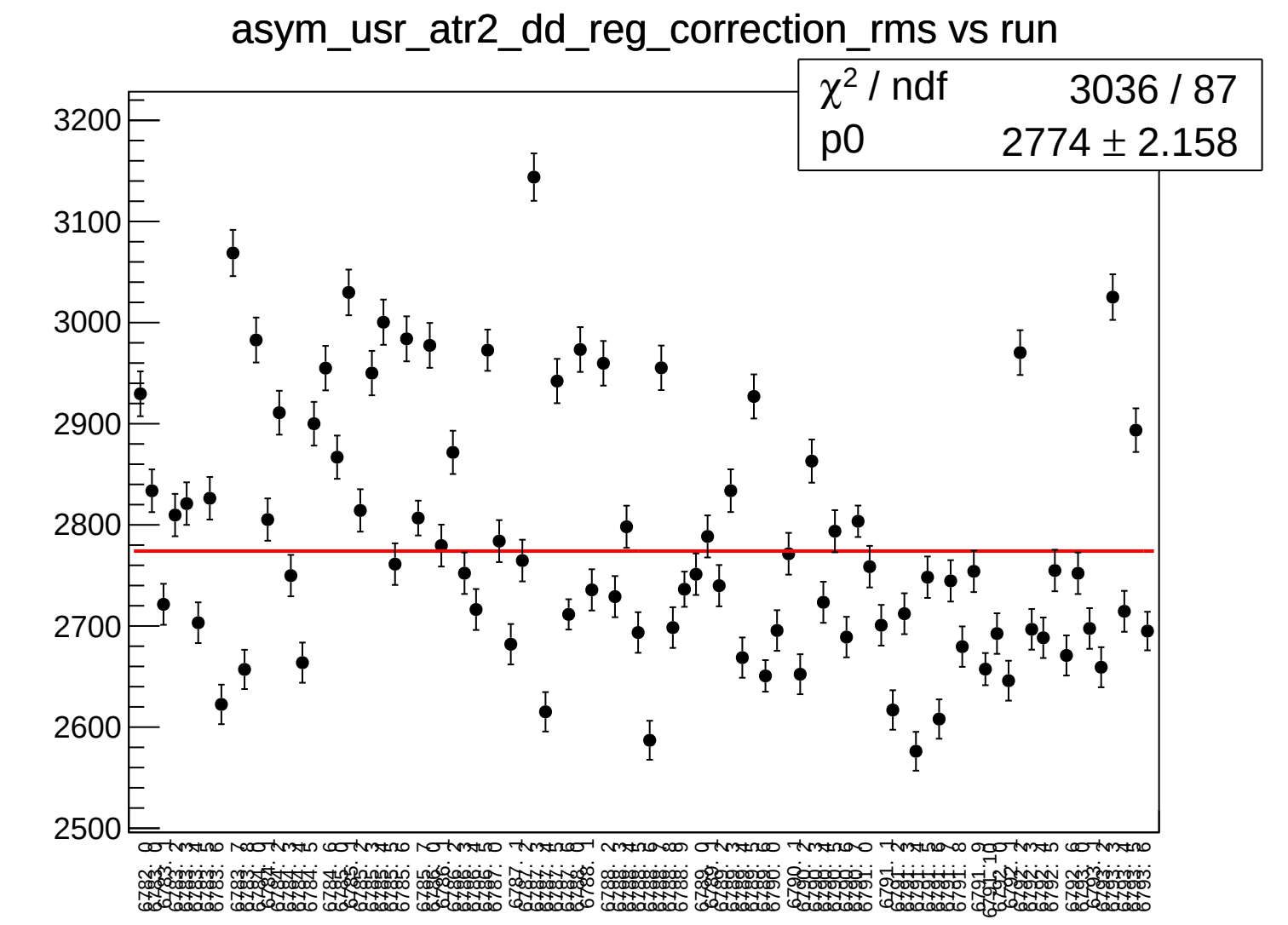

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 96.71 / 87
p0 1646 ± 1170
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 347.5
Std Dev 0
3
2
1
0
−1
−2

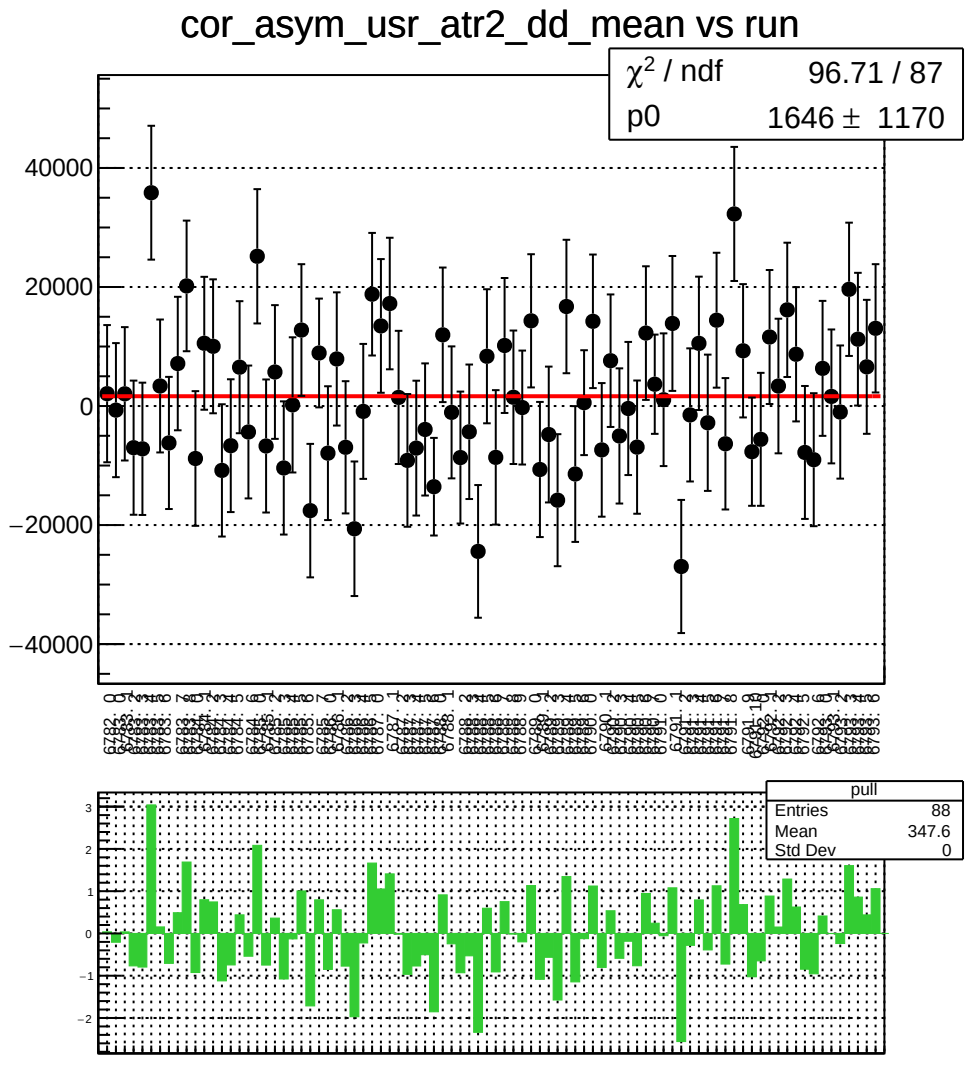

pull1D
Entries 88
Mean 0.006344
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

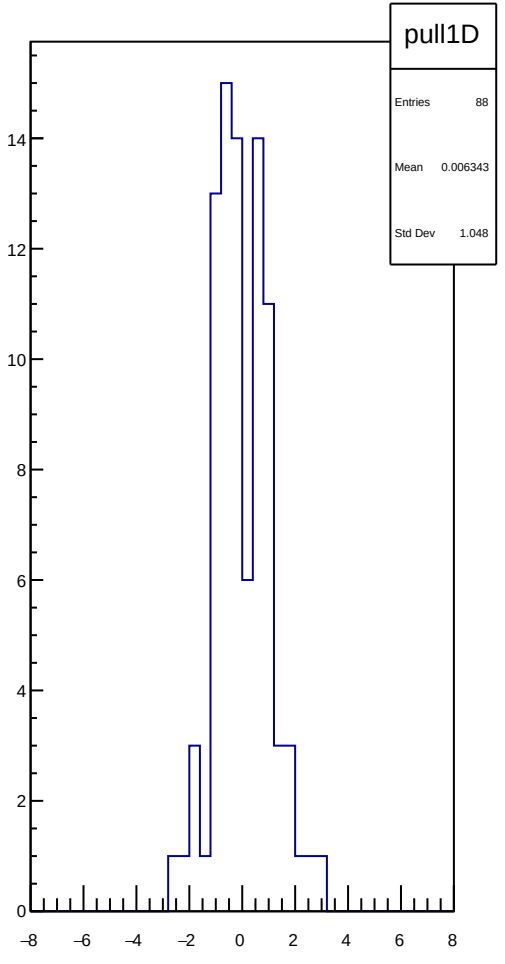

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 104.1 / 87
p0 1064 ± 0.8273
1090
1080
1070
1060
1050
1040

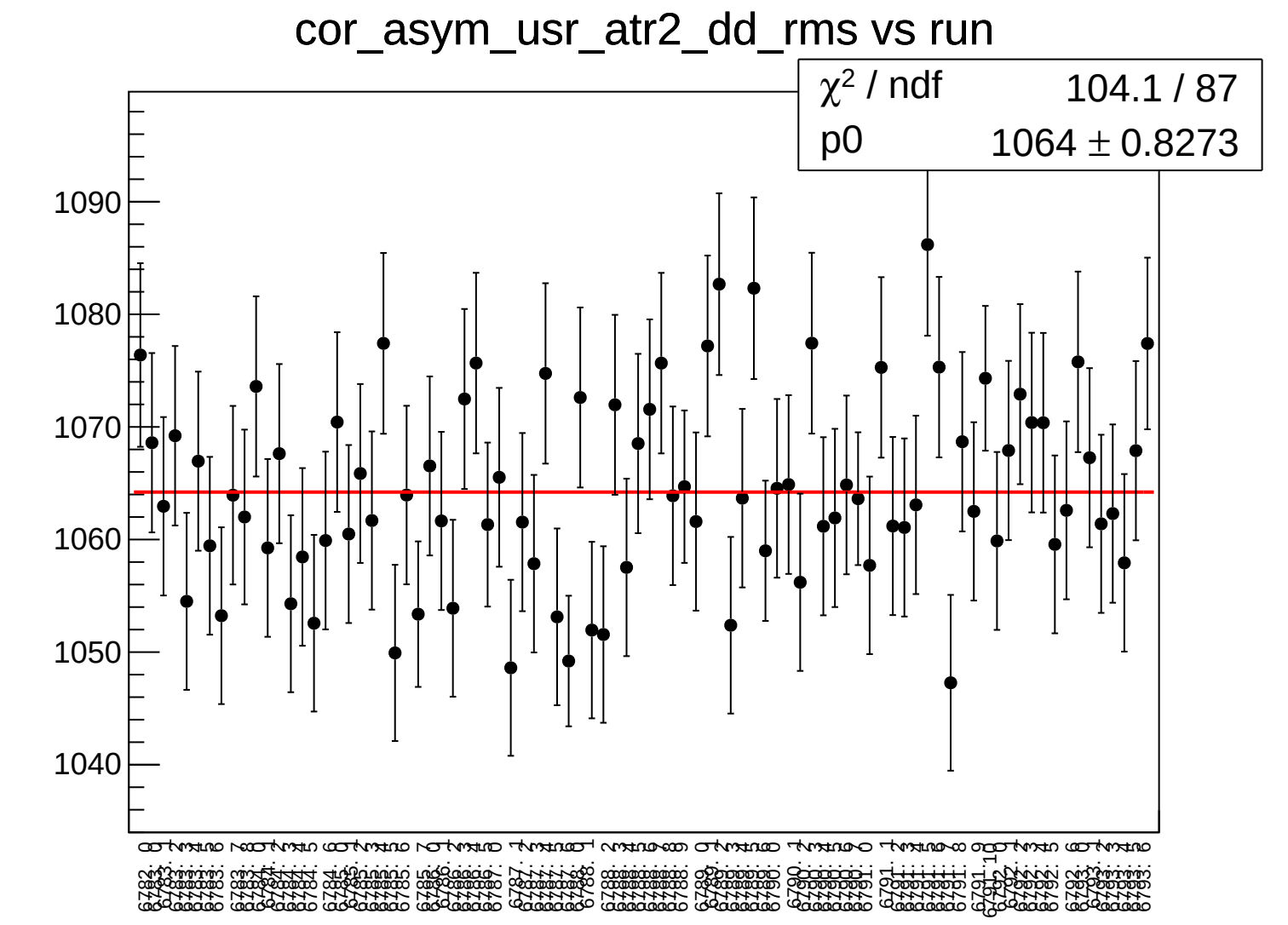

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.79 / 87
p0 1507 ± 3052
100
50
0
−50
−100
pull
Entries 88
Mean 17.14
Std Dev 0
2
1
0
−1
−2

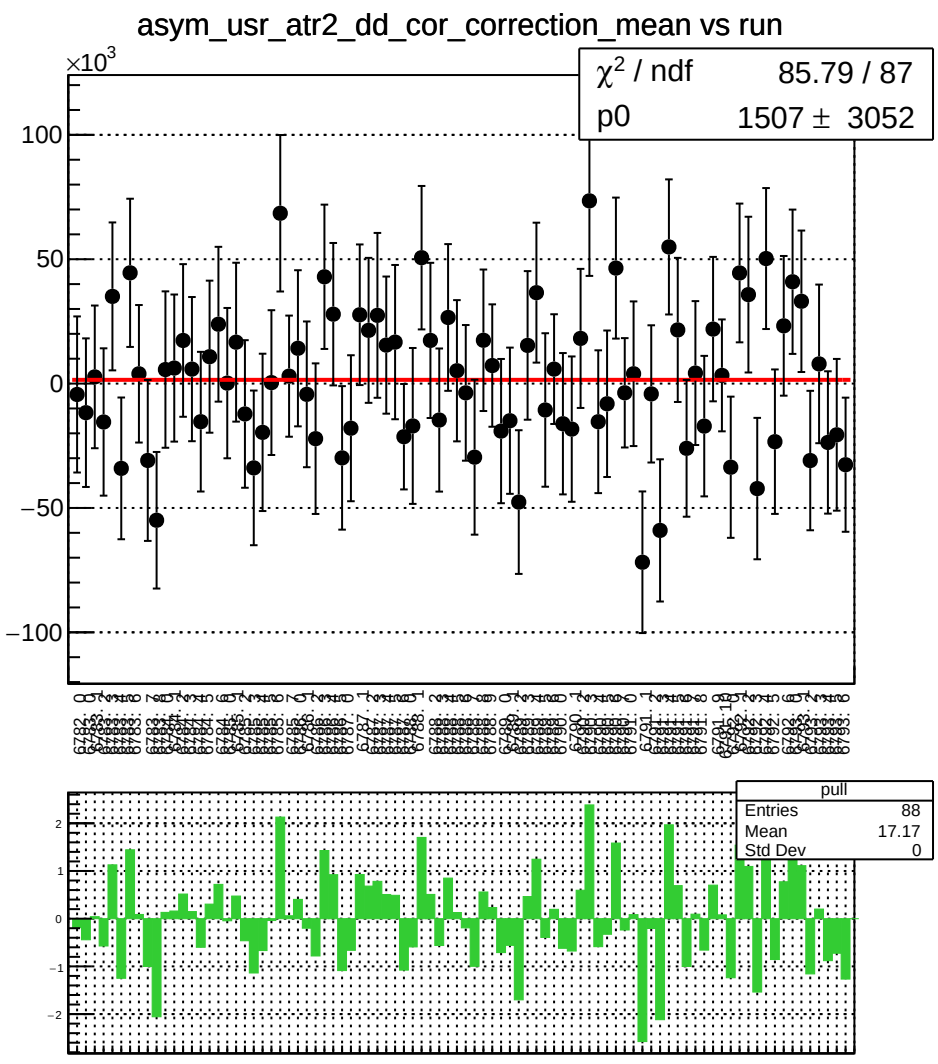

pull1D
Entries 88
Mean 0.008175
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

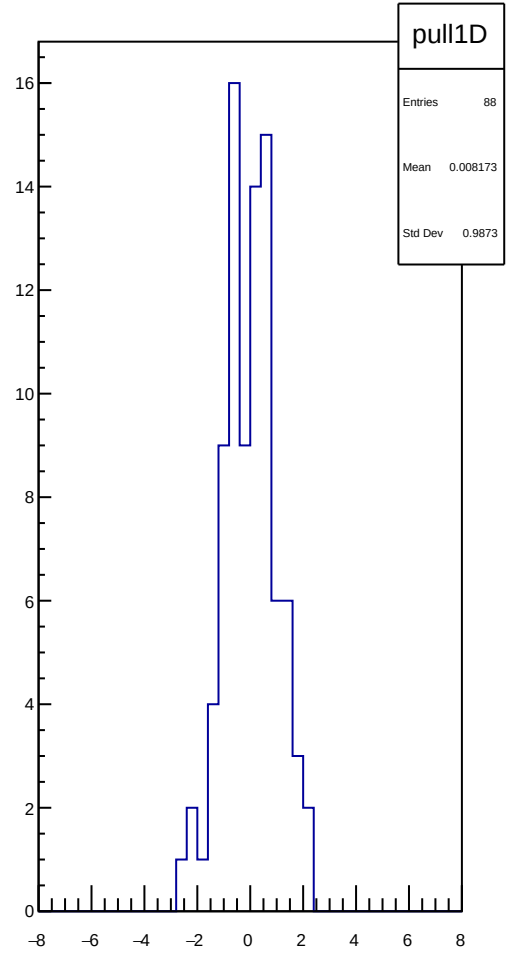

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3036 / 87
p0 2774 ± 2.158
3200
3100
3000
2900
2800
2700
2600
2500

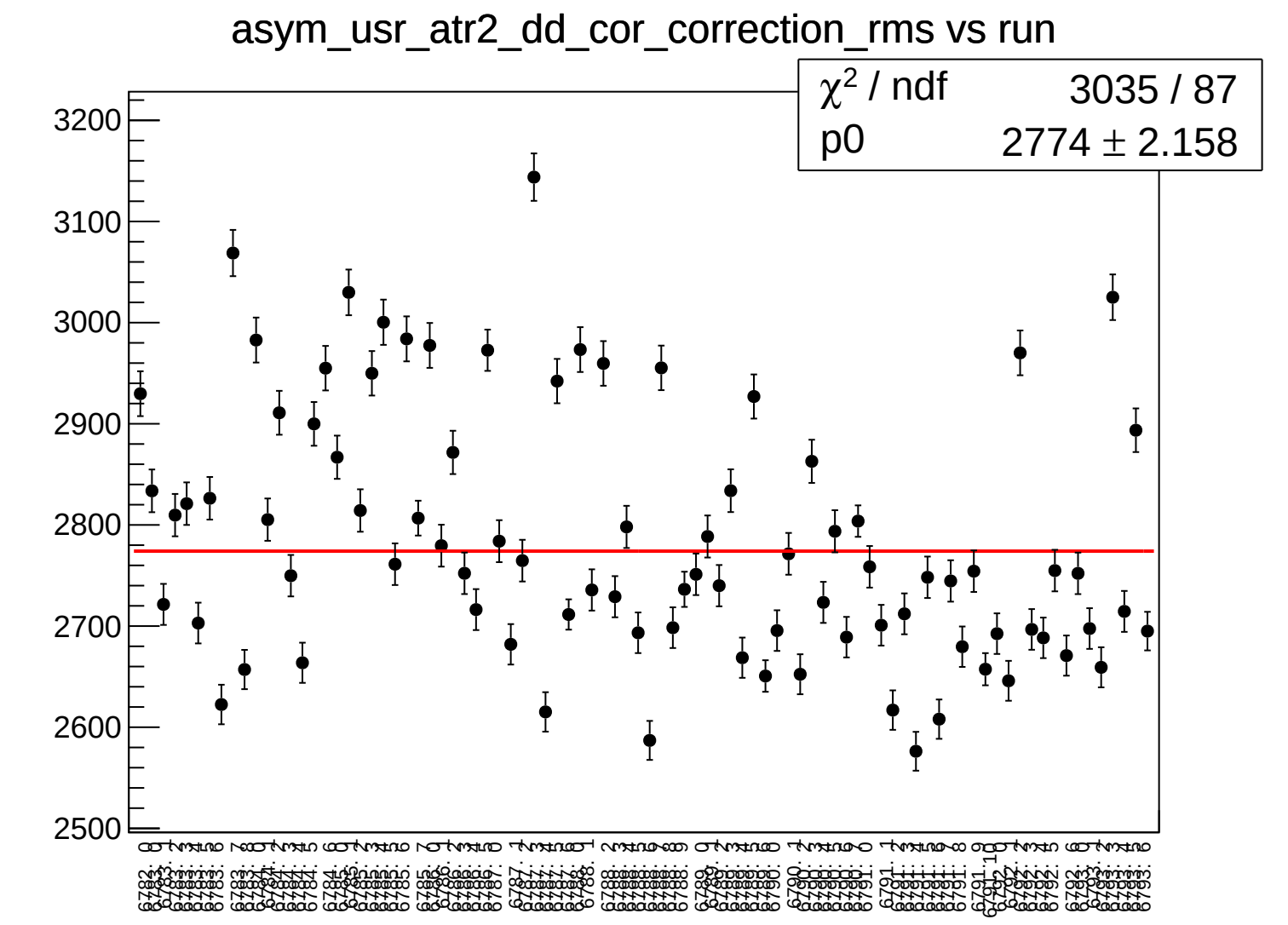

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 96.71 / 87
p0 1646 ± 1170
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 347.6
Std Dev 0
3
2
1
0
−1
−2

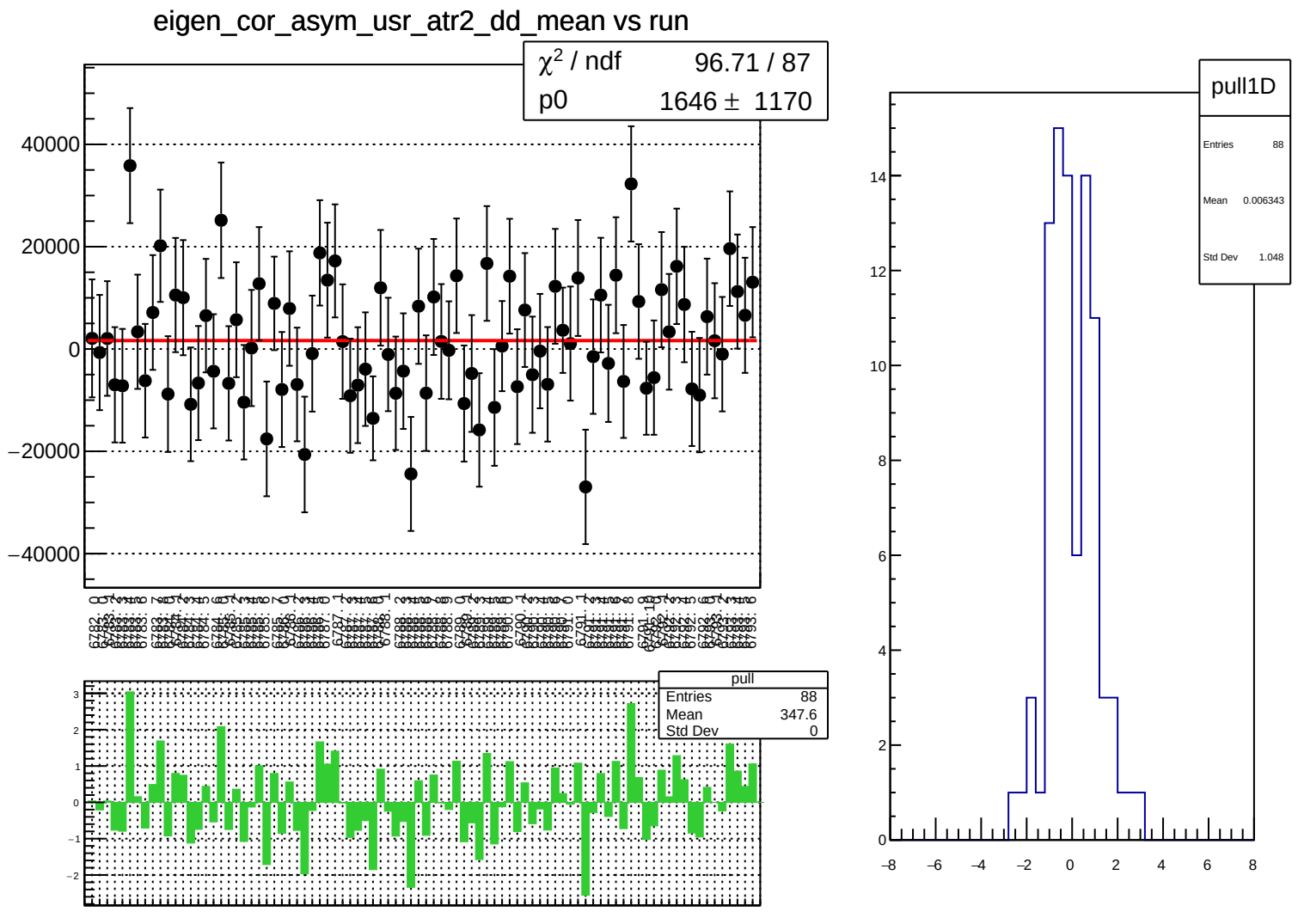

pull1D
Entries 88
Mean 0.006343
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

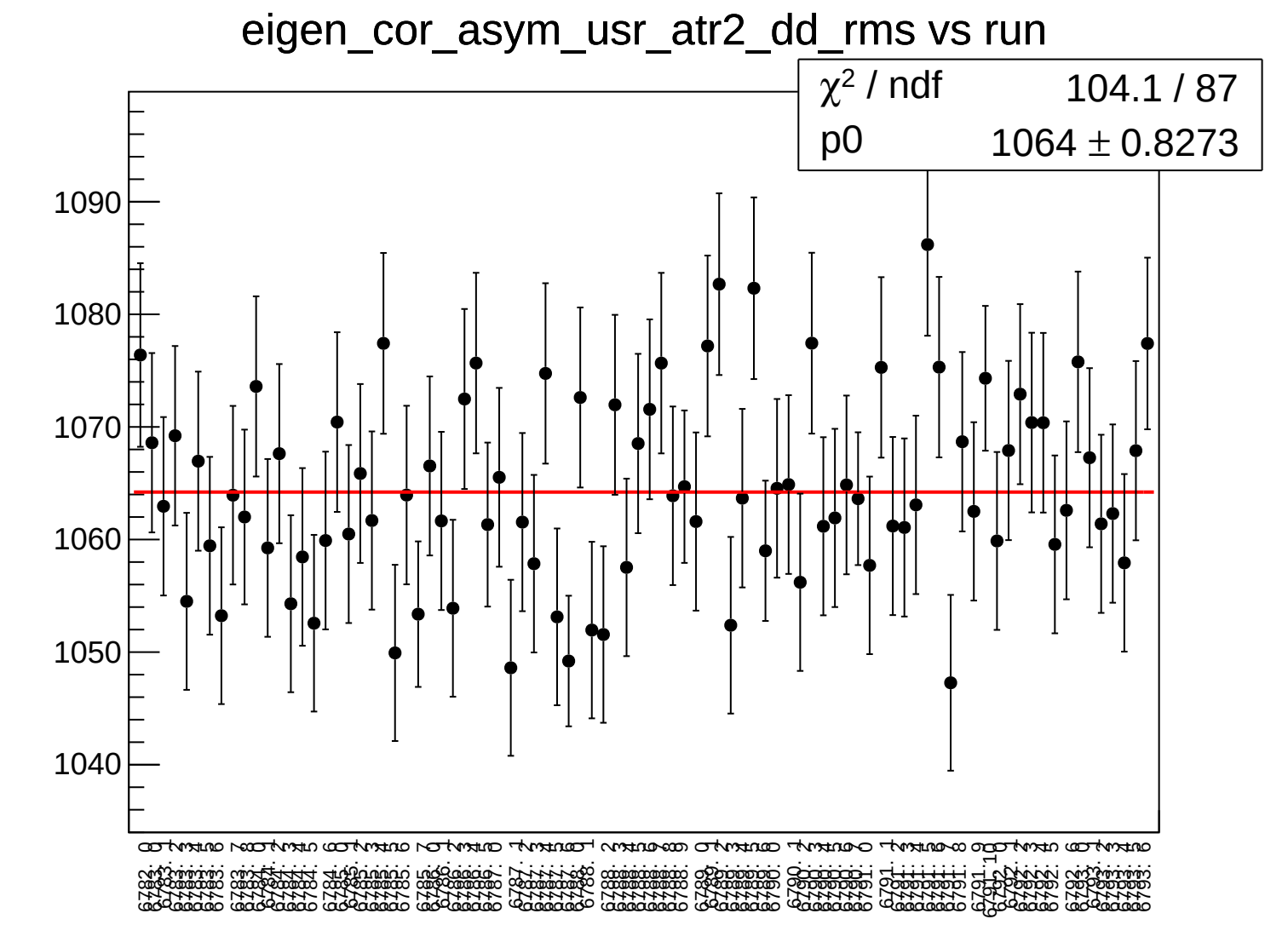

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 104.1 / 87
p0 1064 ± 0.8273
1090
1080
1070
1060
1050
1040

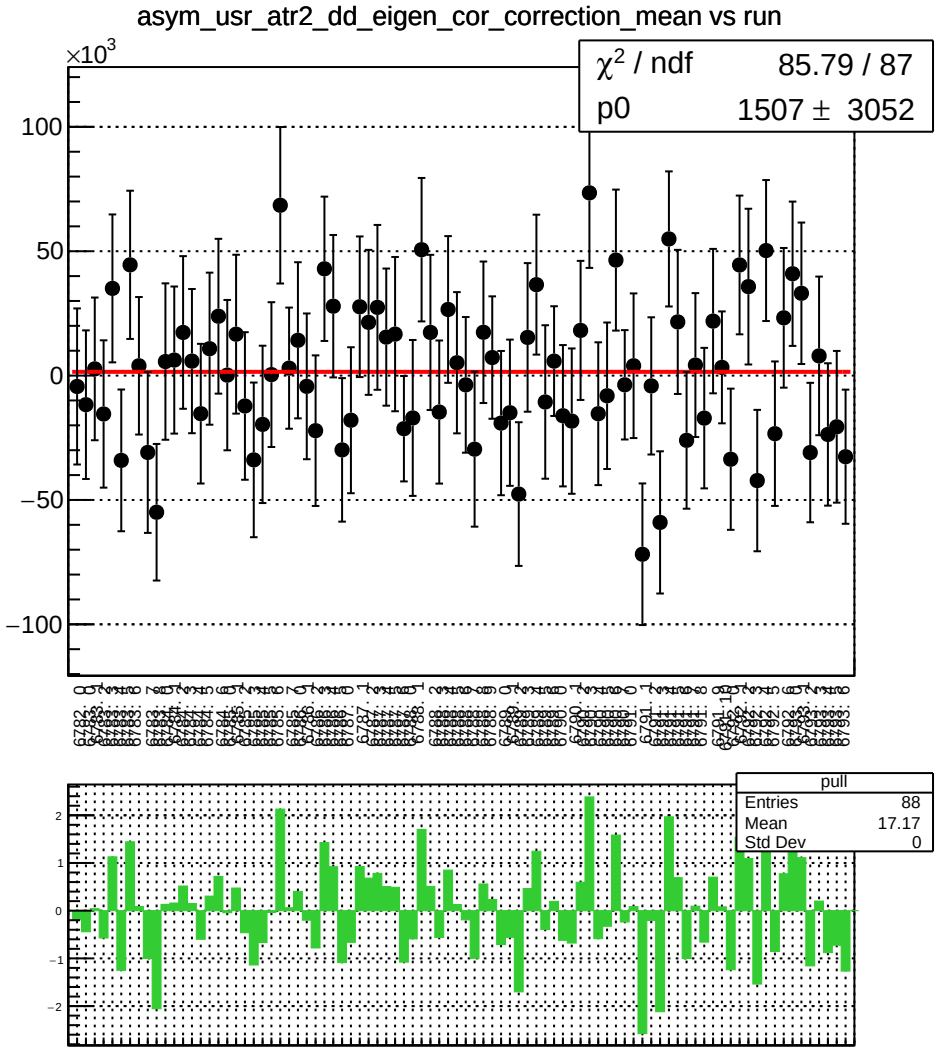

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.79 / 87
p0 1507 ± 3052
100
50
0
−50
−100
pull
Entries 88
Mean 17.17
Std Dev 0
2
1
0
−1
−2

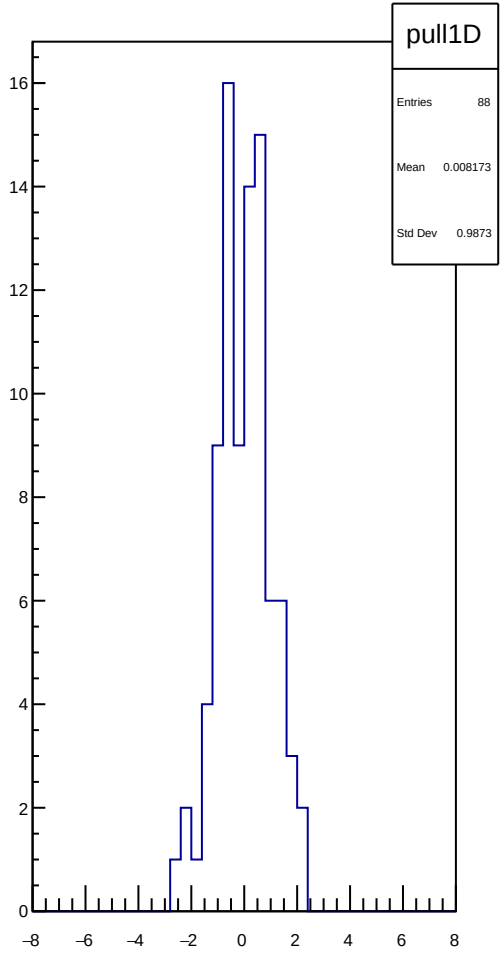

pull1D
Entries 88
Mean 0.008173
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

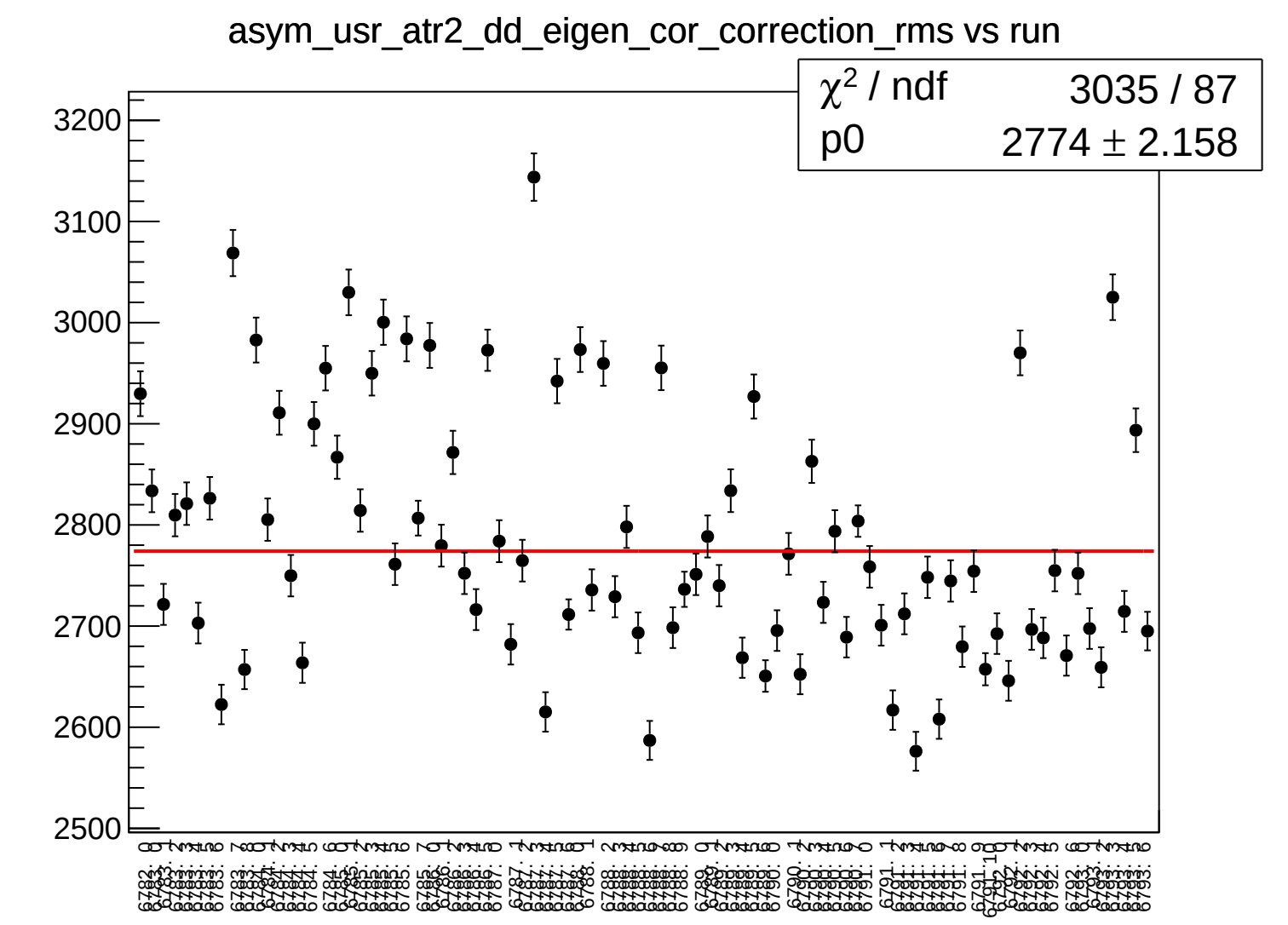

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3035 / 87
p0 2774 ± 2.158
3200
3100
3000
2900
2800
2700
2600
2500

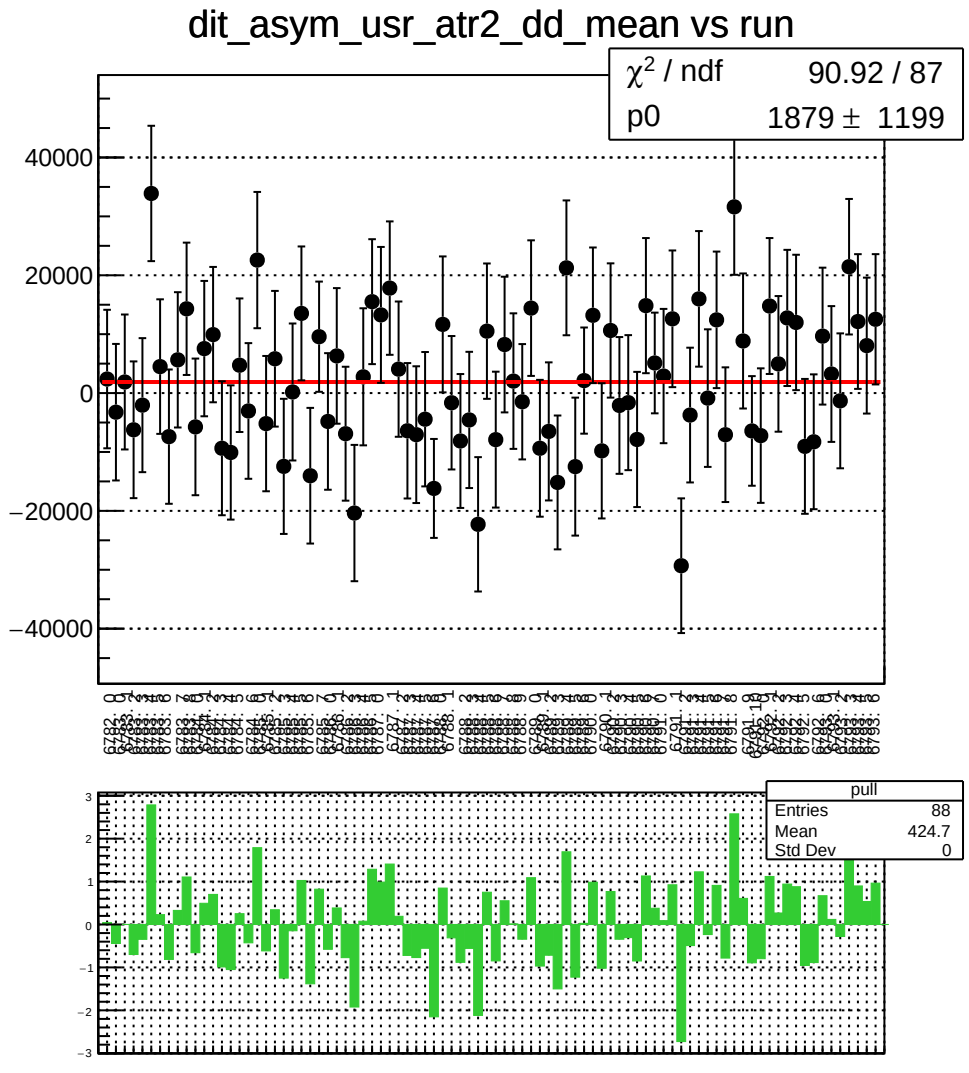

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 96.71 / 87
p0 1646 ± 1170
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 347.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006343
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

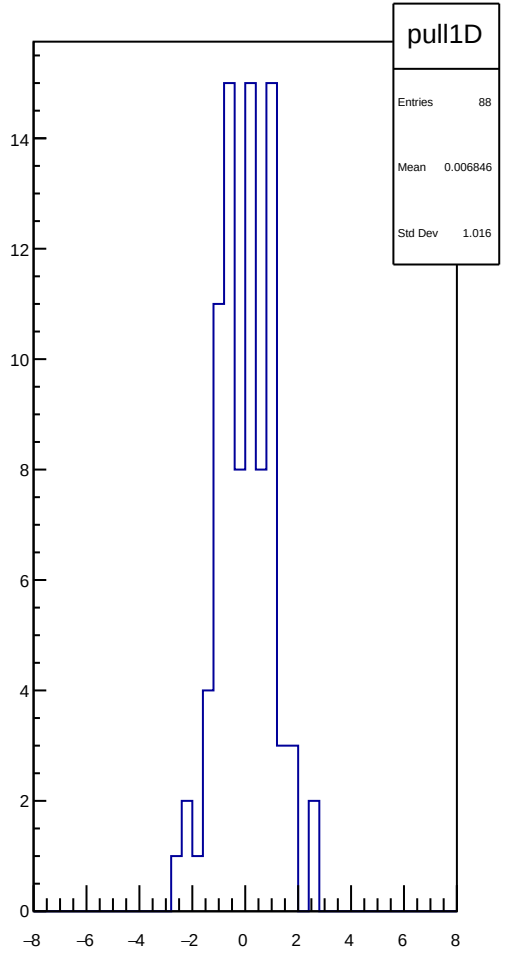

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 104.1 / 87
p0 1064 ± 0.8273
1090
1080
1070
1060
1050
1040

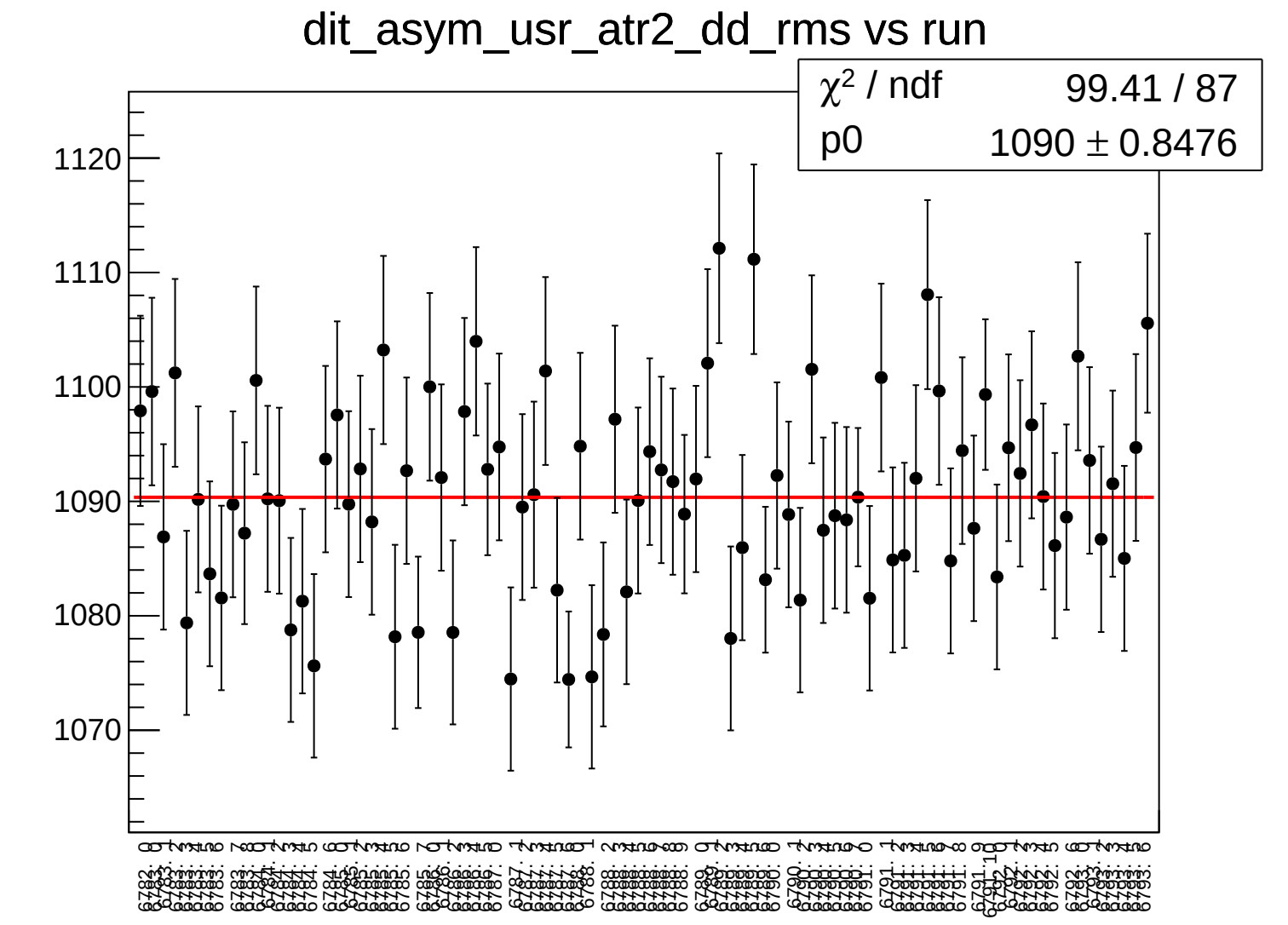

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.79 / 87
p0 1507 ± 3052
100
50
0
−50
−100
pull
Entries 88
Mean 17.17
Std Dev 0
2
1
0
−1
−2

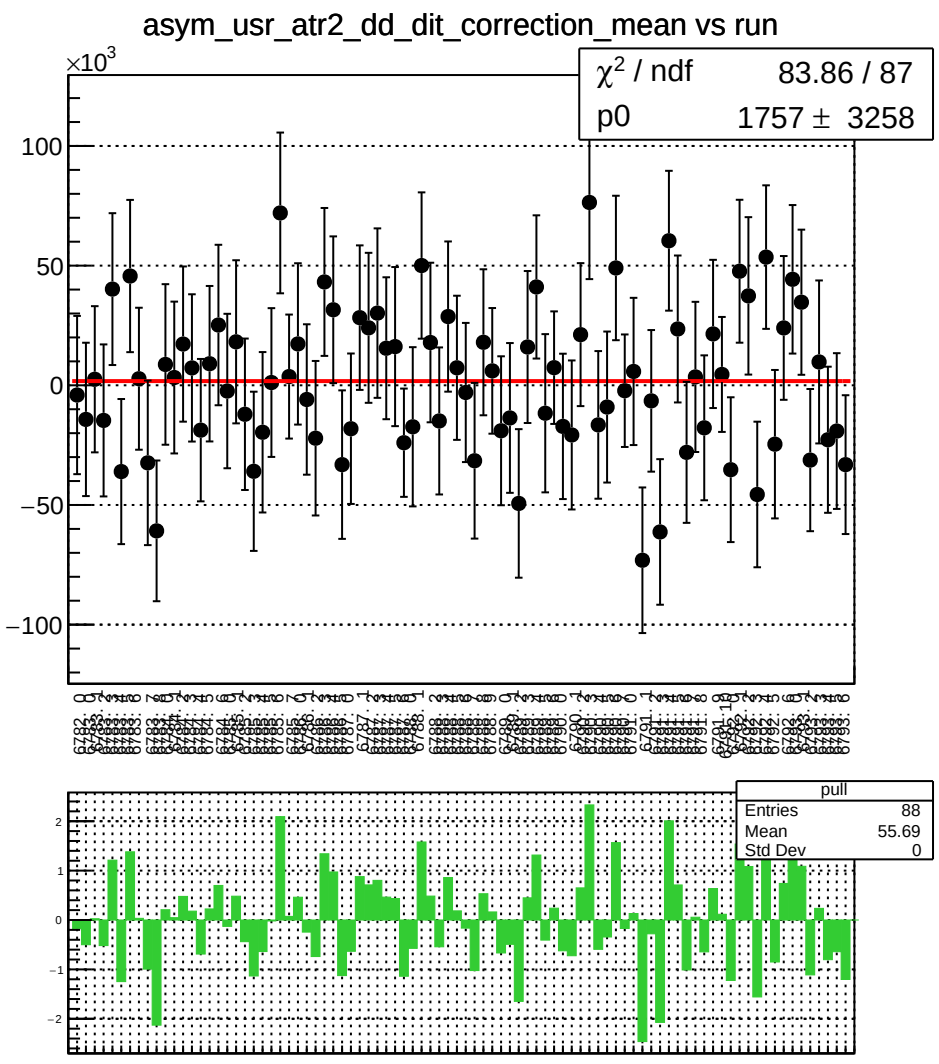

pull1D
Entries 88
Mean 0.008173
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

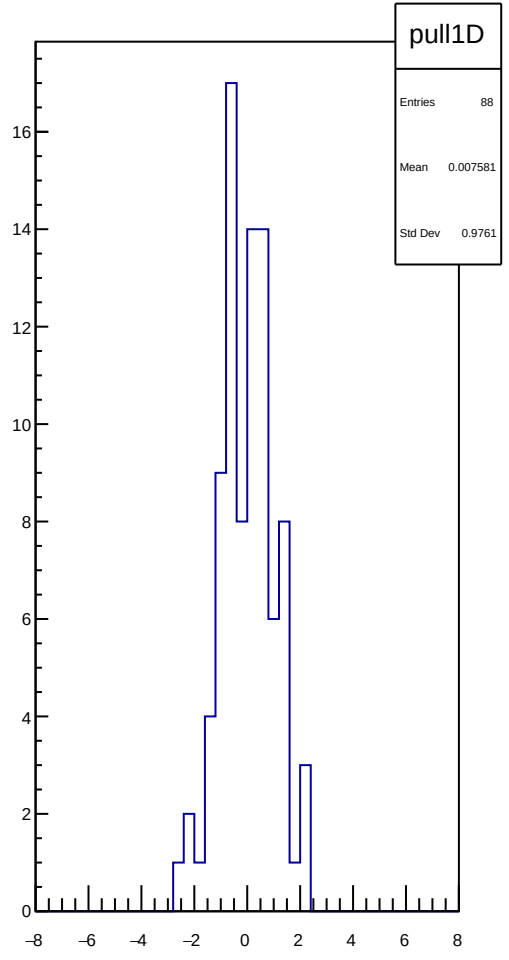

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3035 / 87
p0 2774 ± 2.158
3200
3100
3000
2900
2800
2700
2600
2500

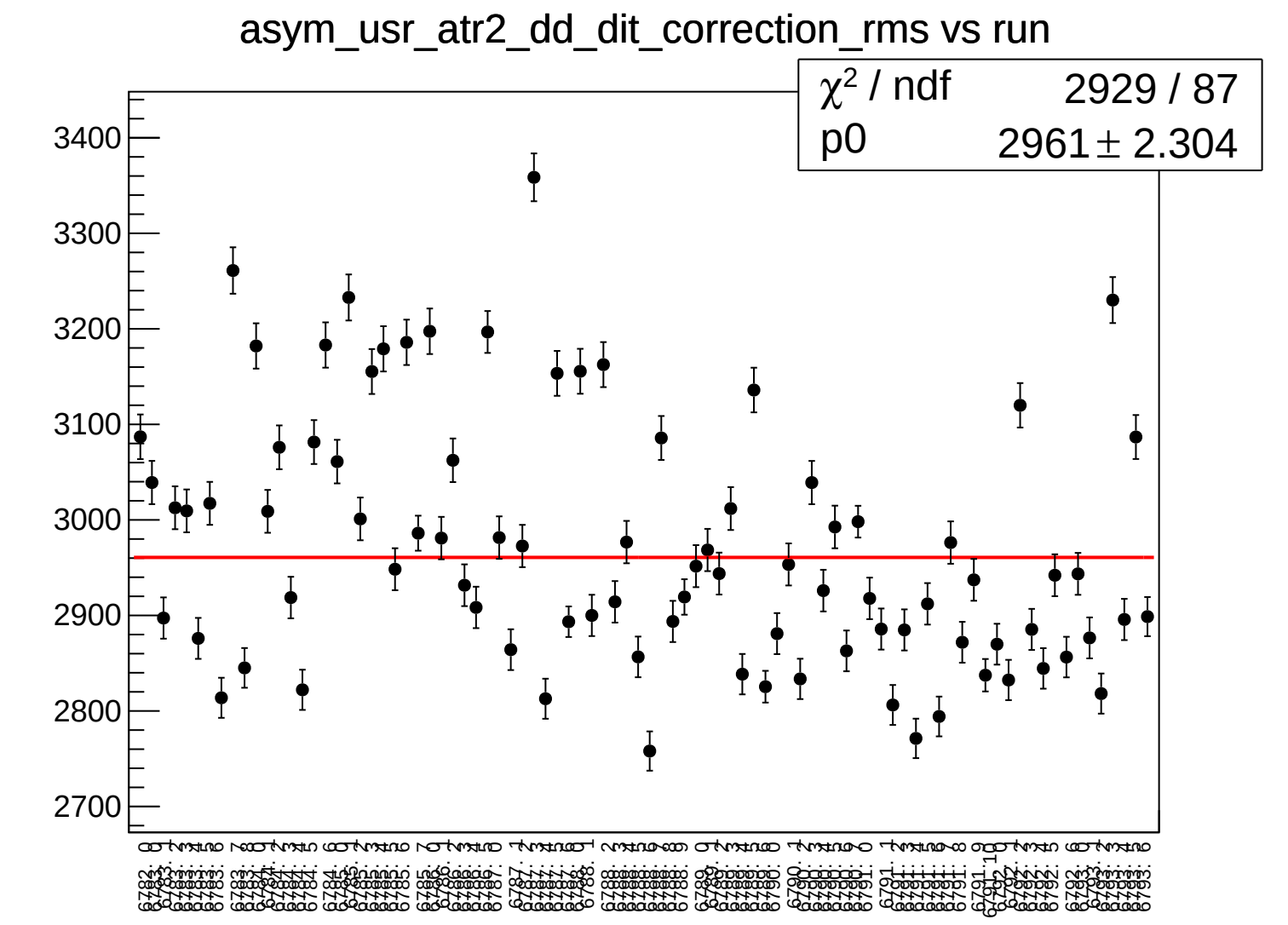

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.92 / 87
p0 1879 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 424.7
Std Dev 0
3
2
1
0
−1
−2
−3

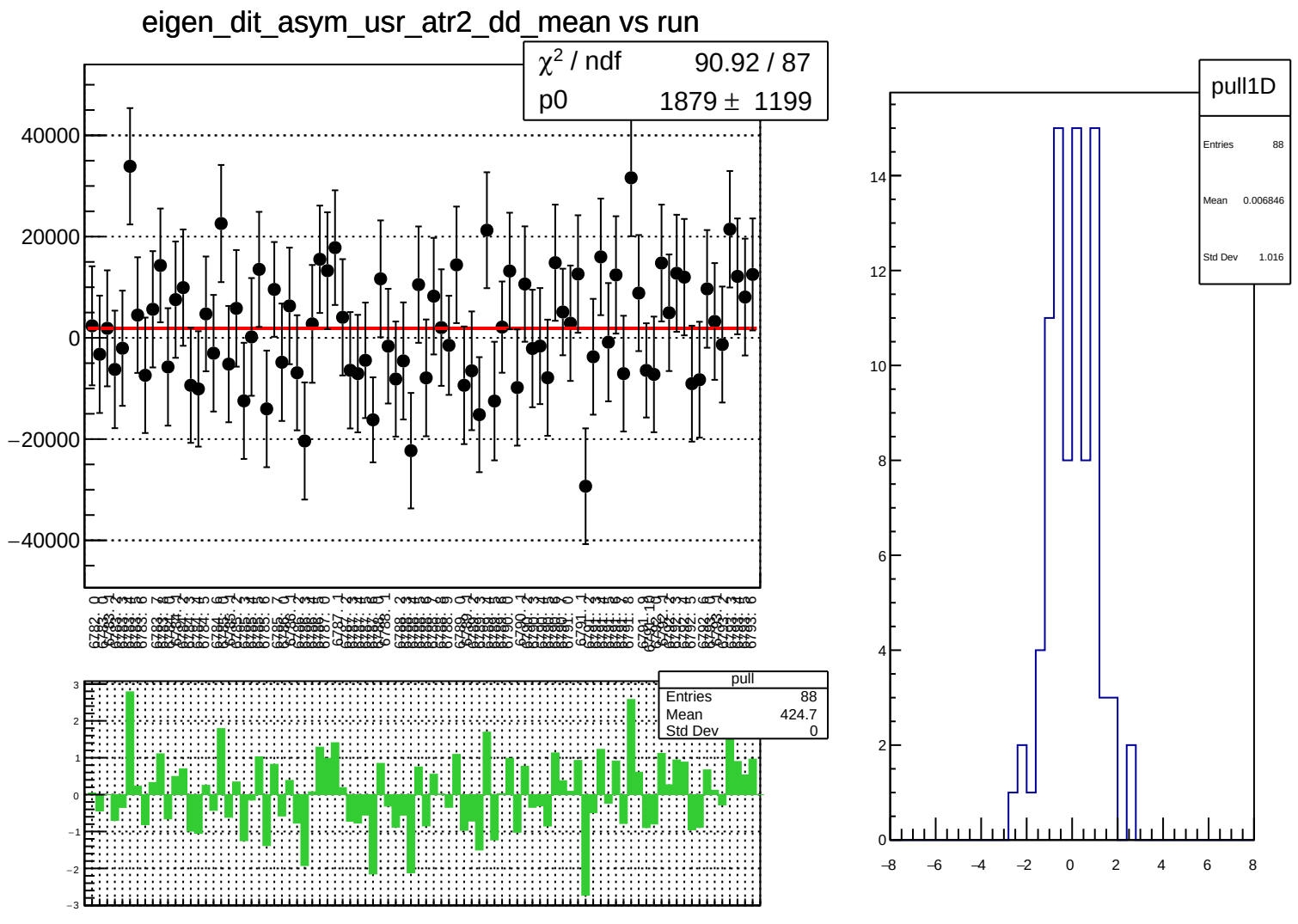

pull1D
Entries 88
Mean 0.006846
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

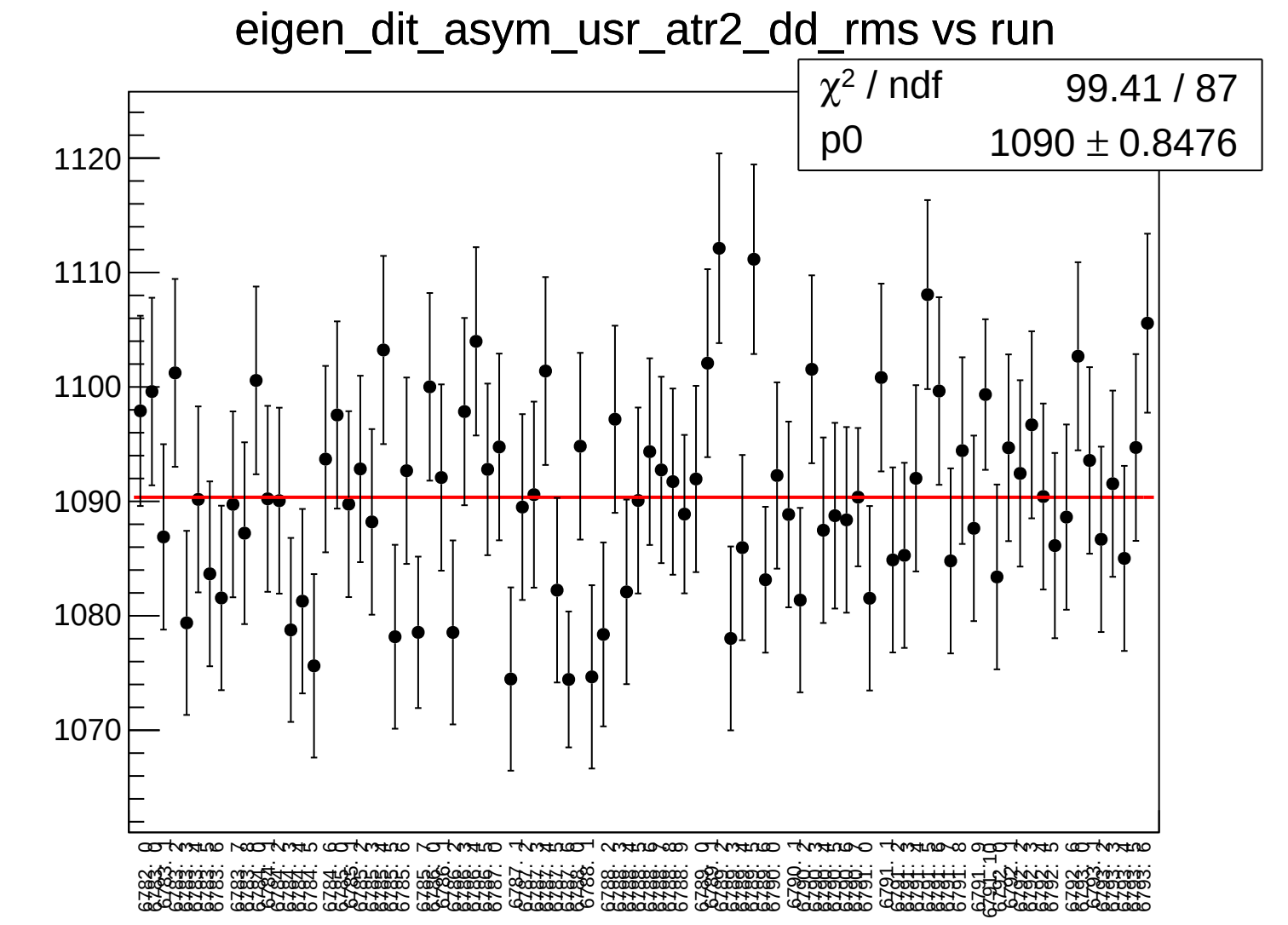

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 99.41 / 87
p0 1090 ± 0.8476
1120
1110
1100
1090
1080
1070

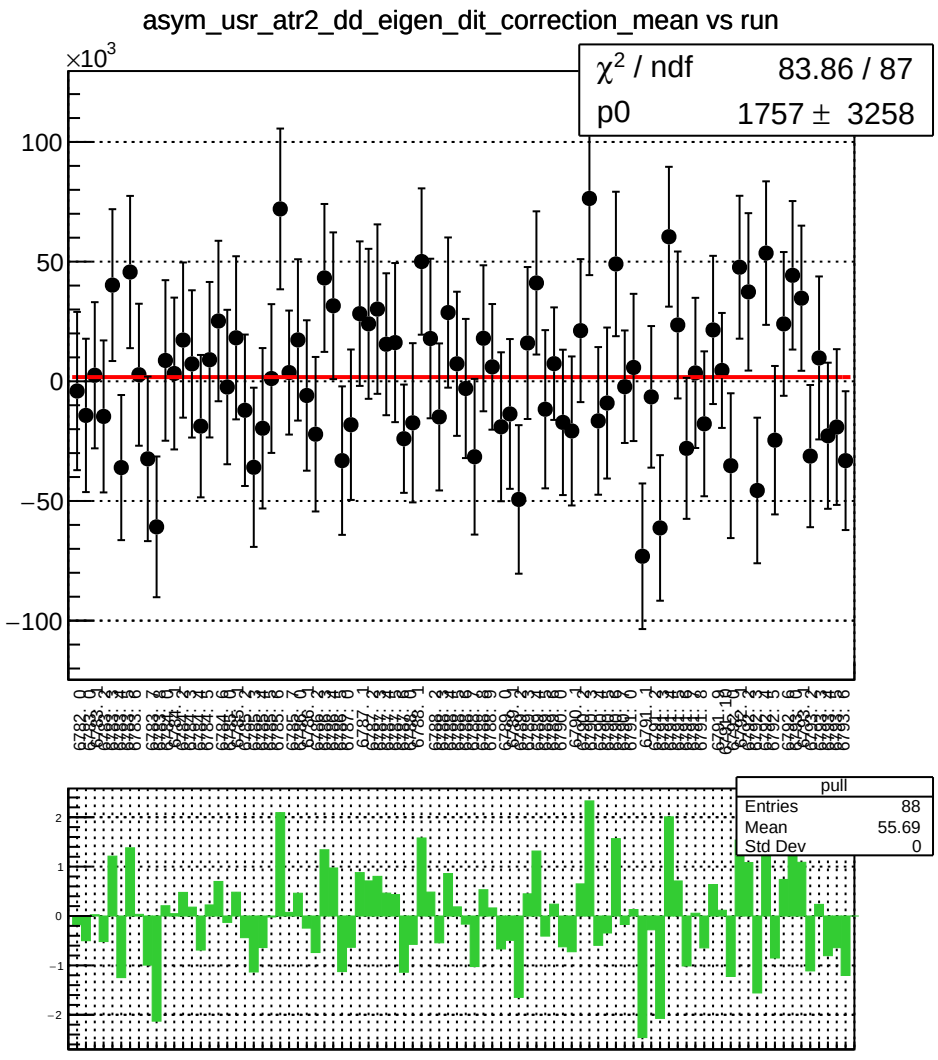

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.86 / 87
p0 1757 ± 3258
100
50
0
−50
−100
pull
Entries 88
Mean 55.69
Std Dev 0
2
1
0
−1
−2

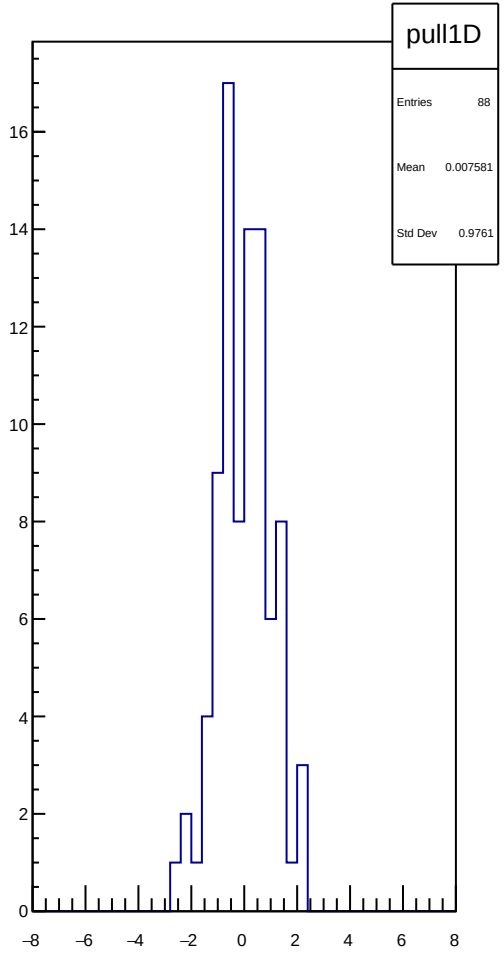

pull1D
Entries 88
Mean 0.007581
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

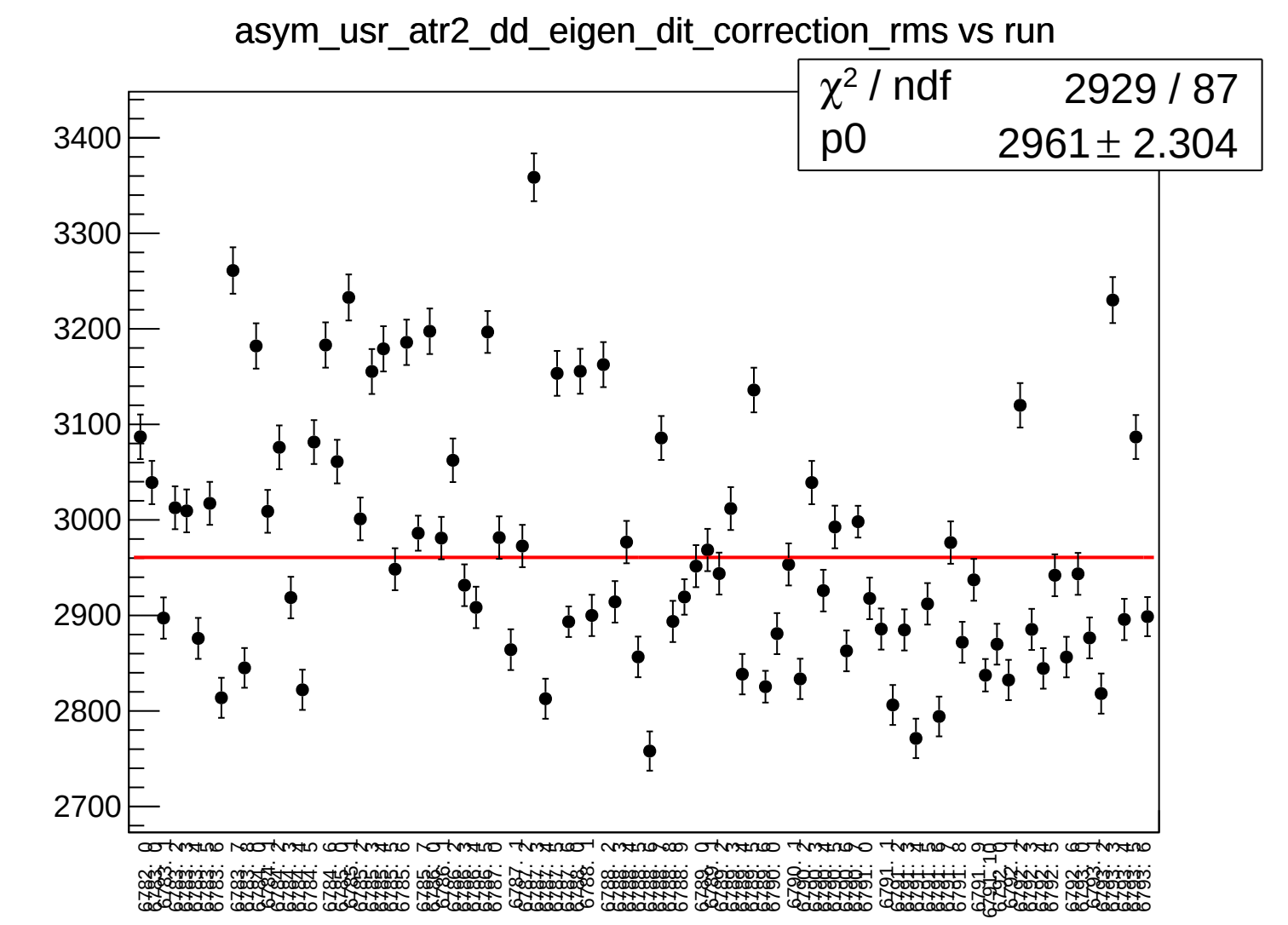

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2929 / 87
p0 2961 ± 2.304
3400
3300
3200
3100
3000
2900
2800
2700

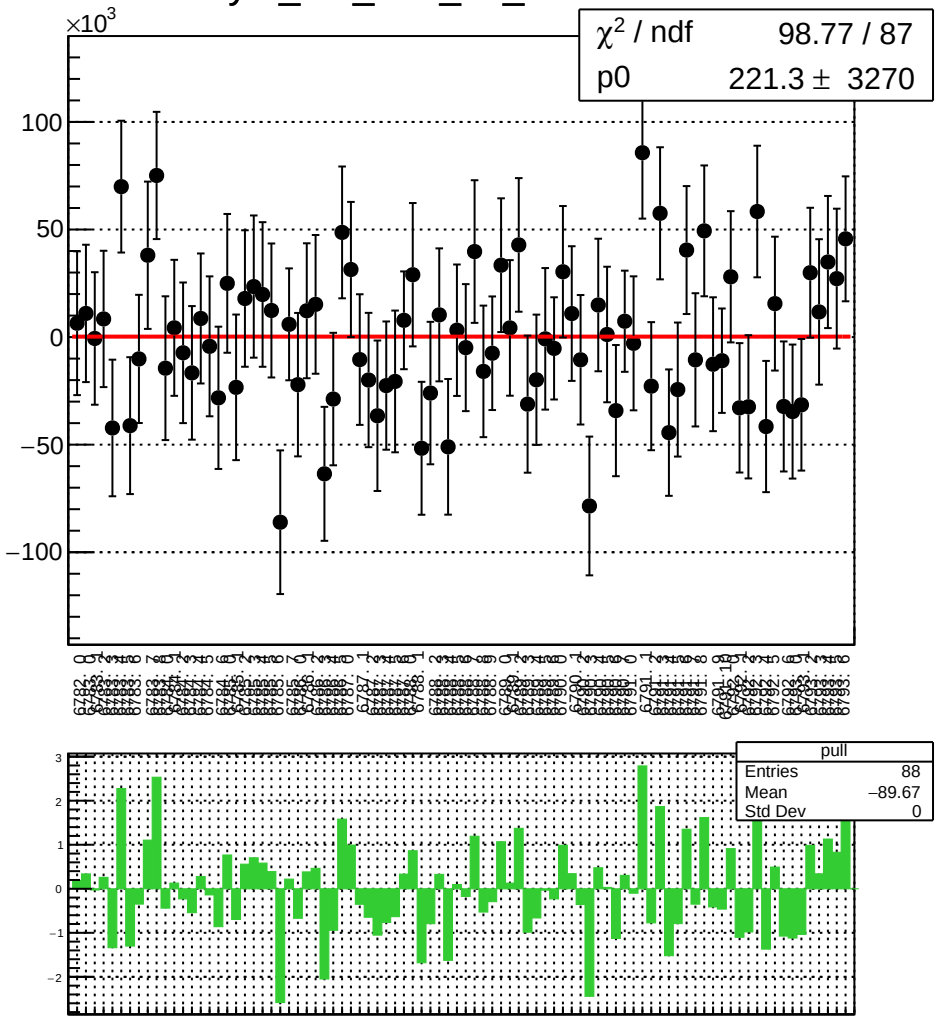

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.92 / 87
p0 1879 ± 1199
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 424.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.006846
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

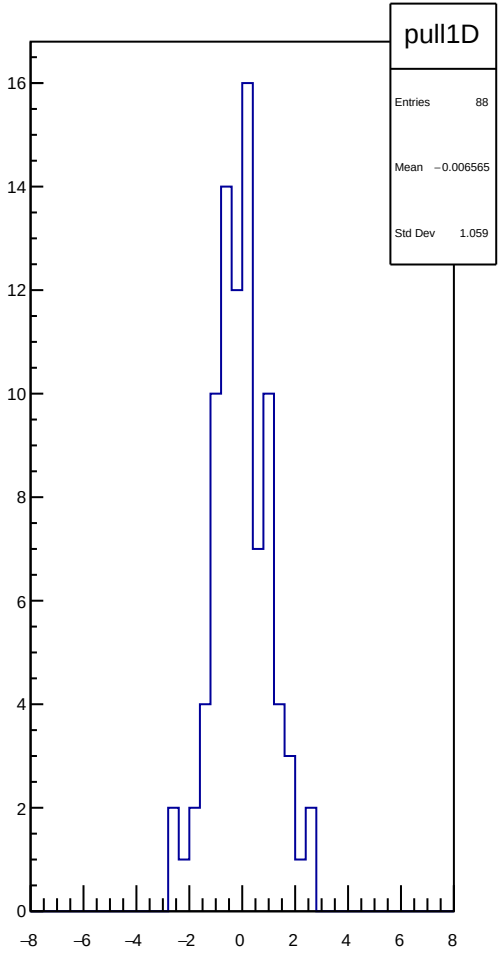

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 99.41 / 87
p0 1090 ± 0.8476
1120
1110
1100
1090
1080
1070

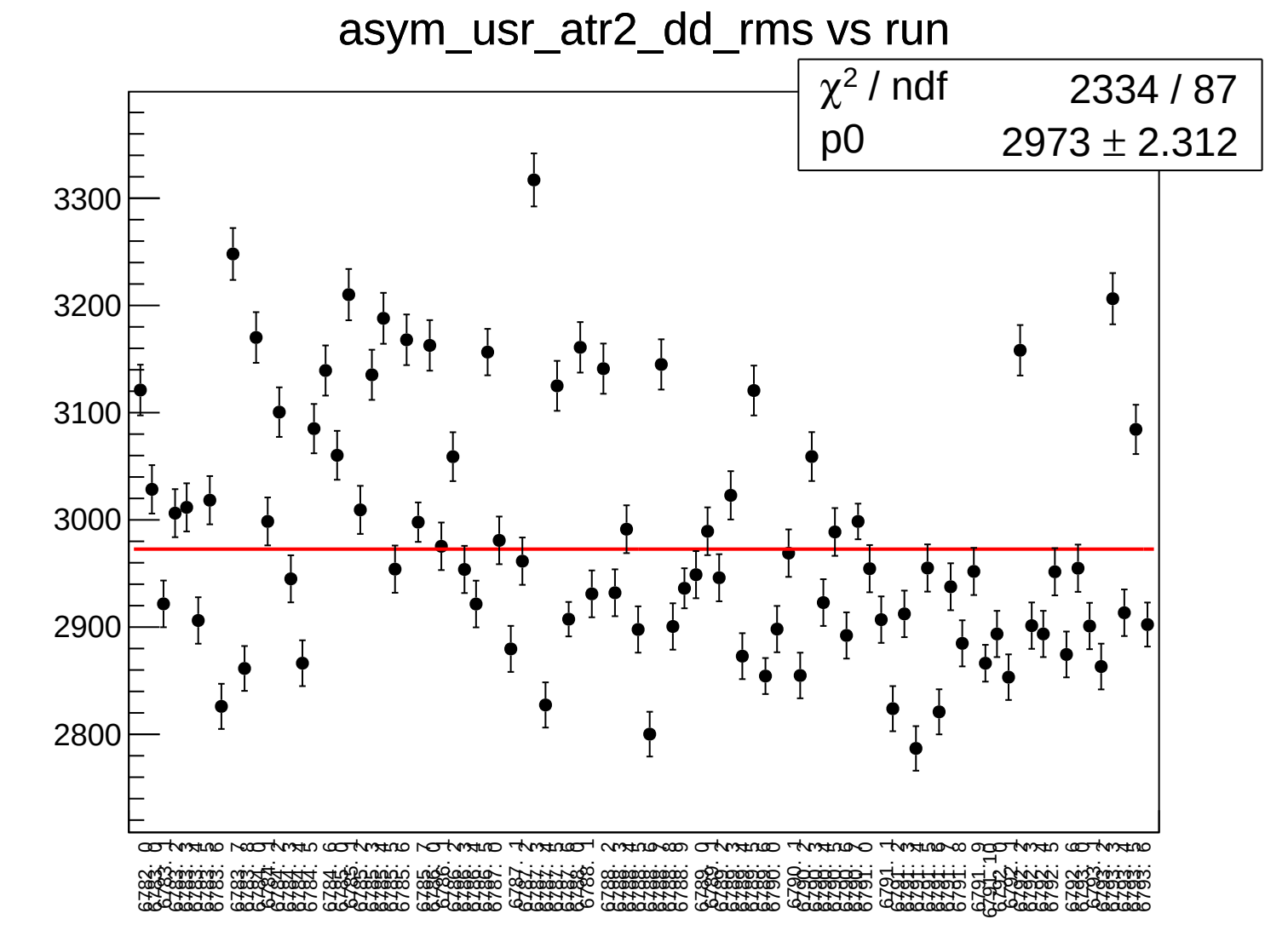

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.86 / 87
p0 1757 ± 3258
100
50
0
−50
−100
pull
Entries 88
Mean 55.69
Std Dev 0
2
1
0
−1
−2

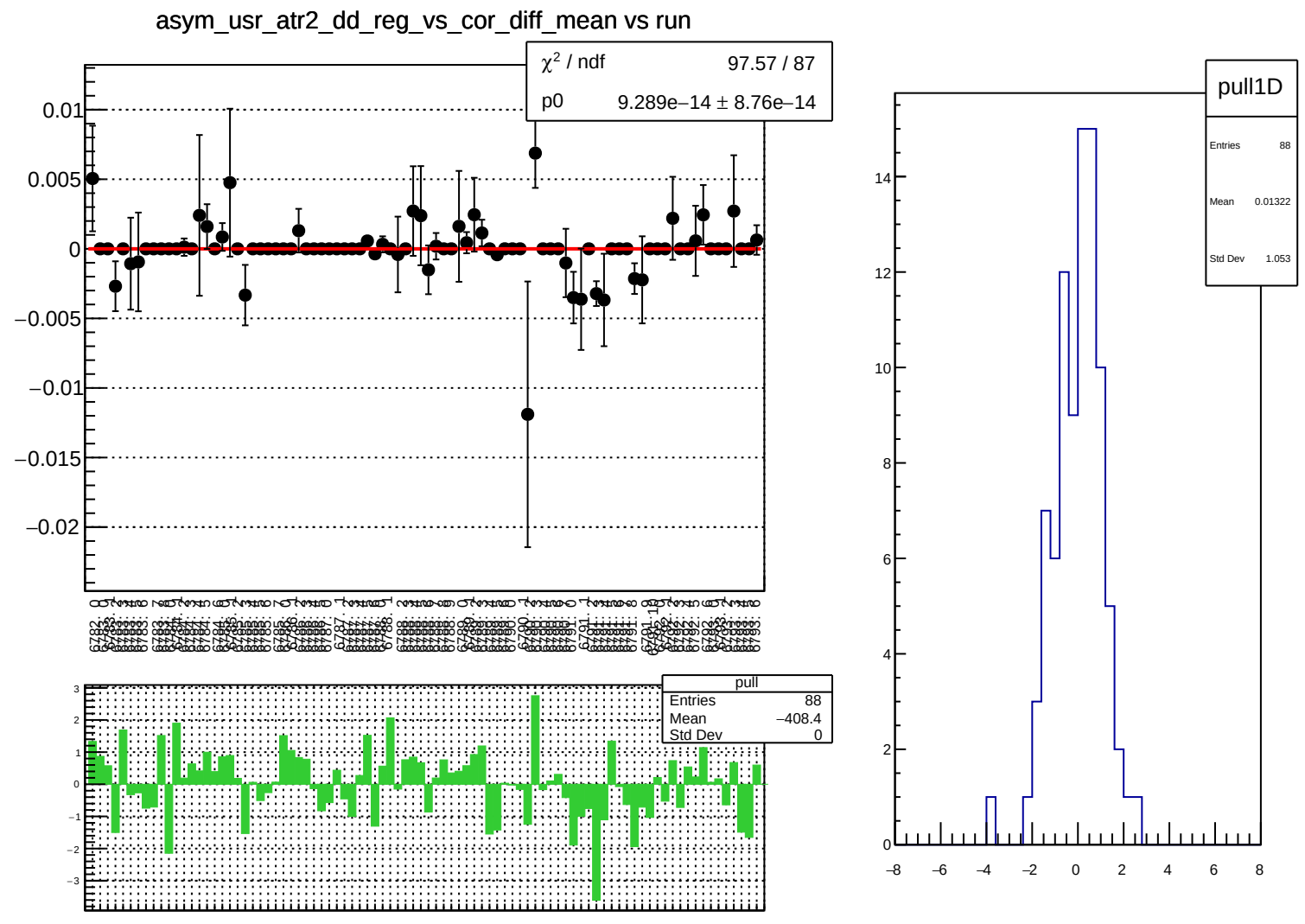

pull1D
Entries 88
Mean 0.007581
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

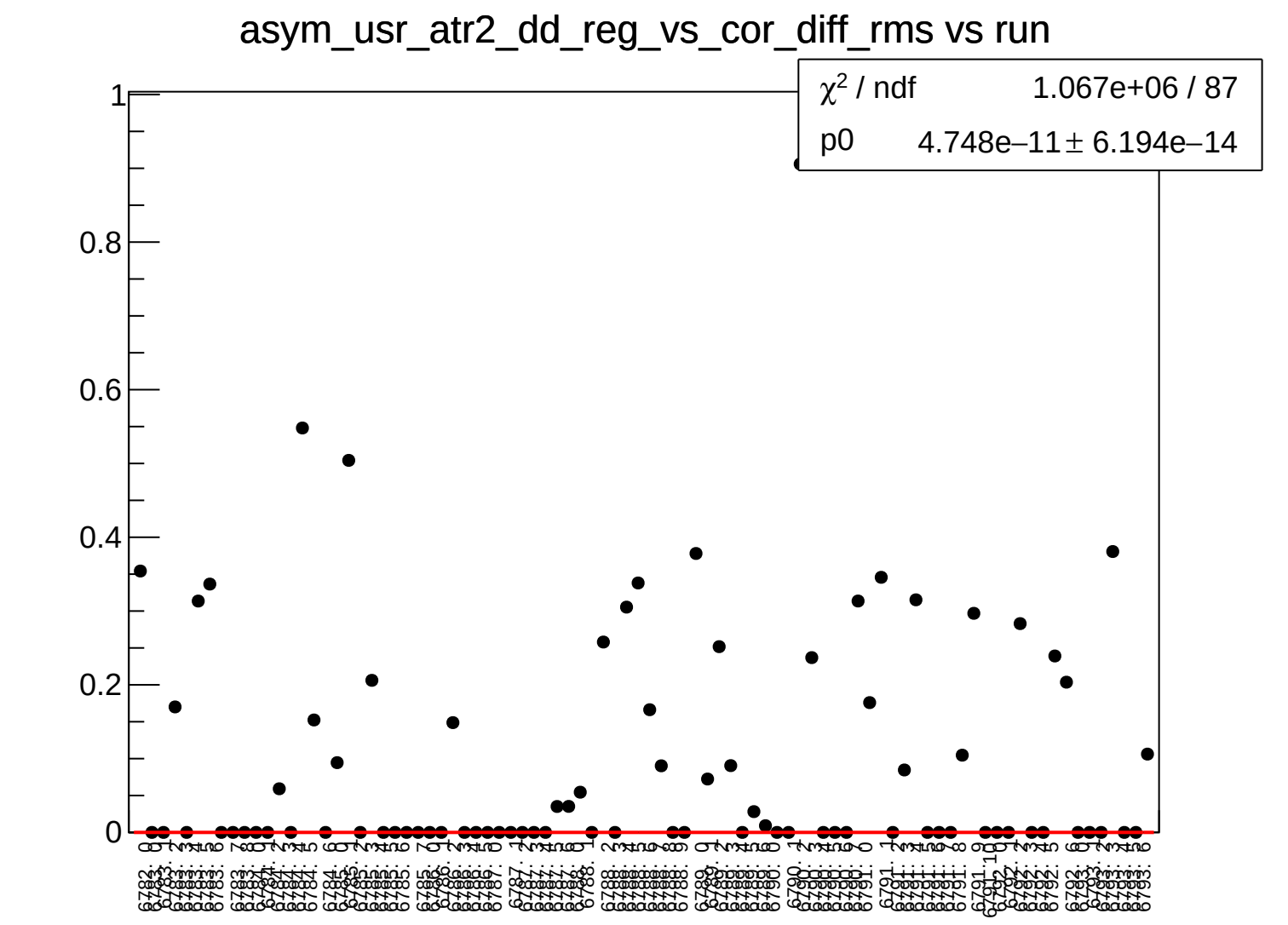

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2929 / 87
p0 2961 ± 2.304
3400
3300
3200
3100
3000
2900
2800
2700

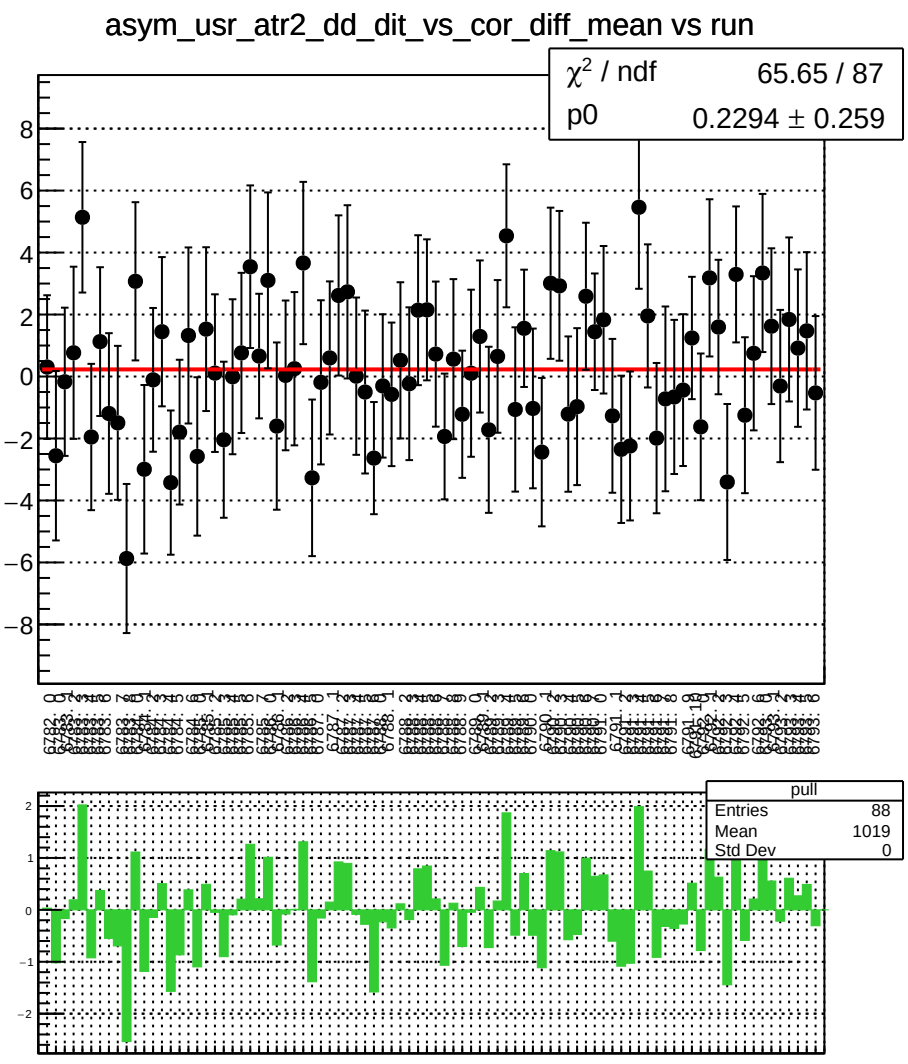

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 98.77 / 87
p0 221.3 ± 3270
100
50
0
−50
−100
pull
Entries 88
Mean −89.67
Std Dev 0
3
2
1
0
−1
−2

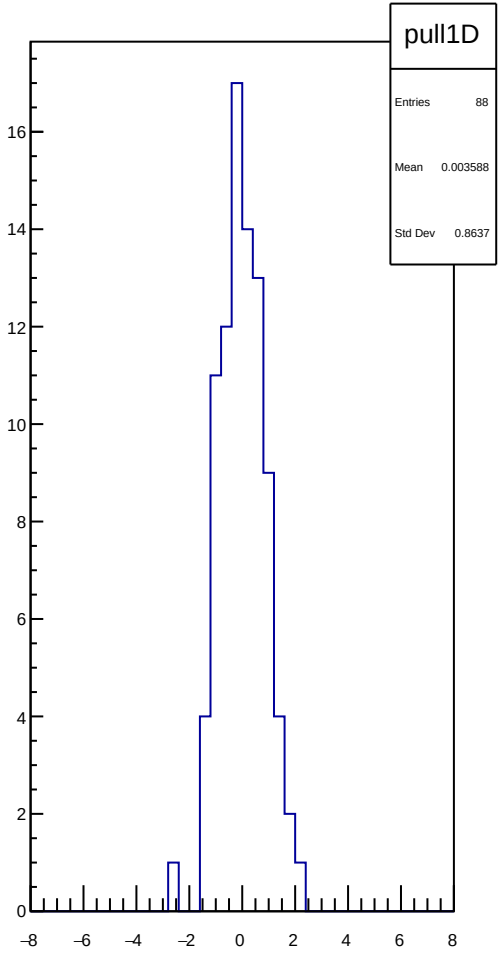

pull1D
Entries 88
Mean −0.006565
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

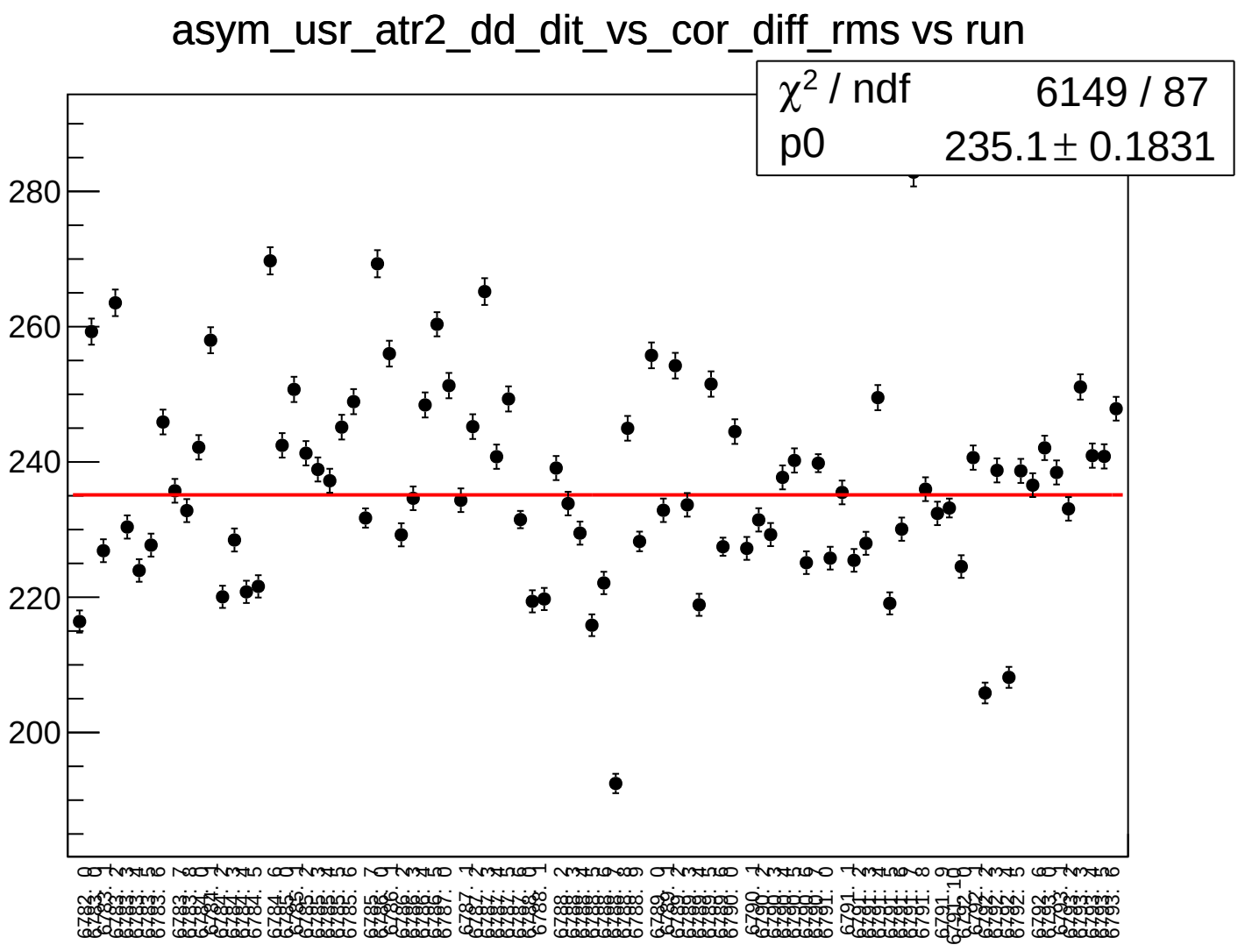

asym_usr_atr2_dd_rms vs run
χ² / ndf 2334 / 87
p0 2973 ± 2.312
3300
3200
3100
3000
2900
2800

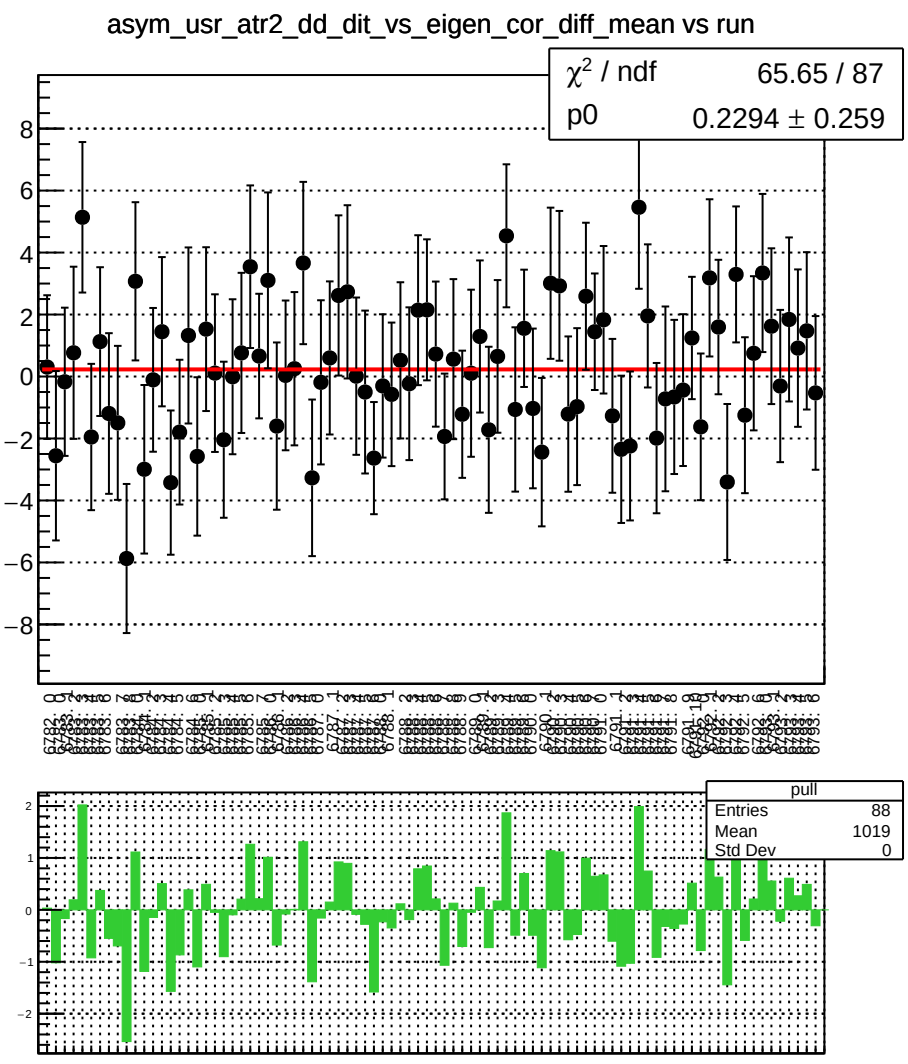

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.57 / 87
p0 9.289e−14 ± 8.76e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean −408.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01322
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

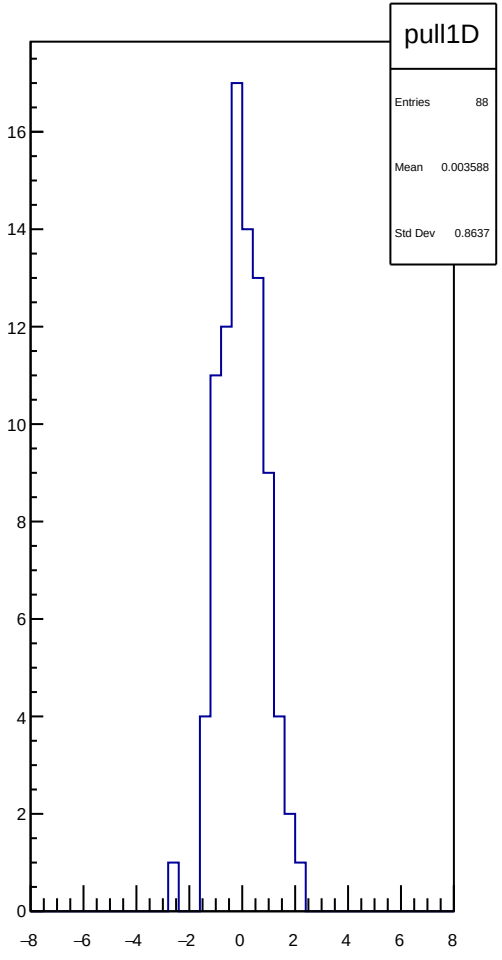

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 87
p0 4.748e−11 ± 6.194e−14
1
0.8
0.6
0.4
0.2
0

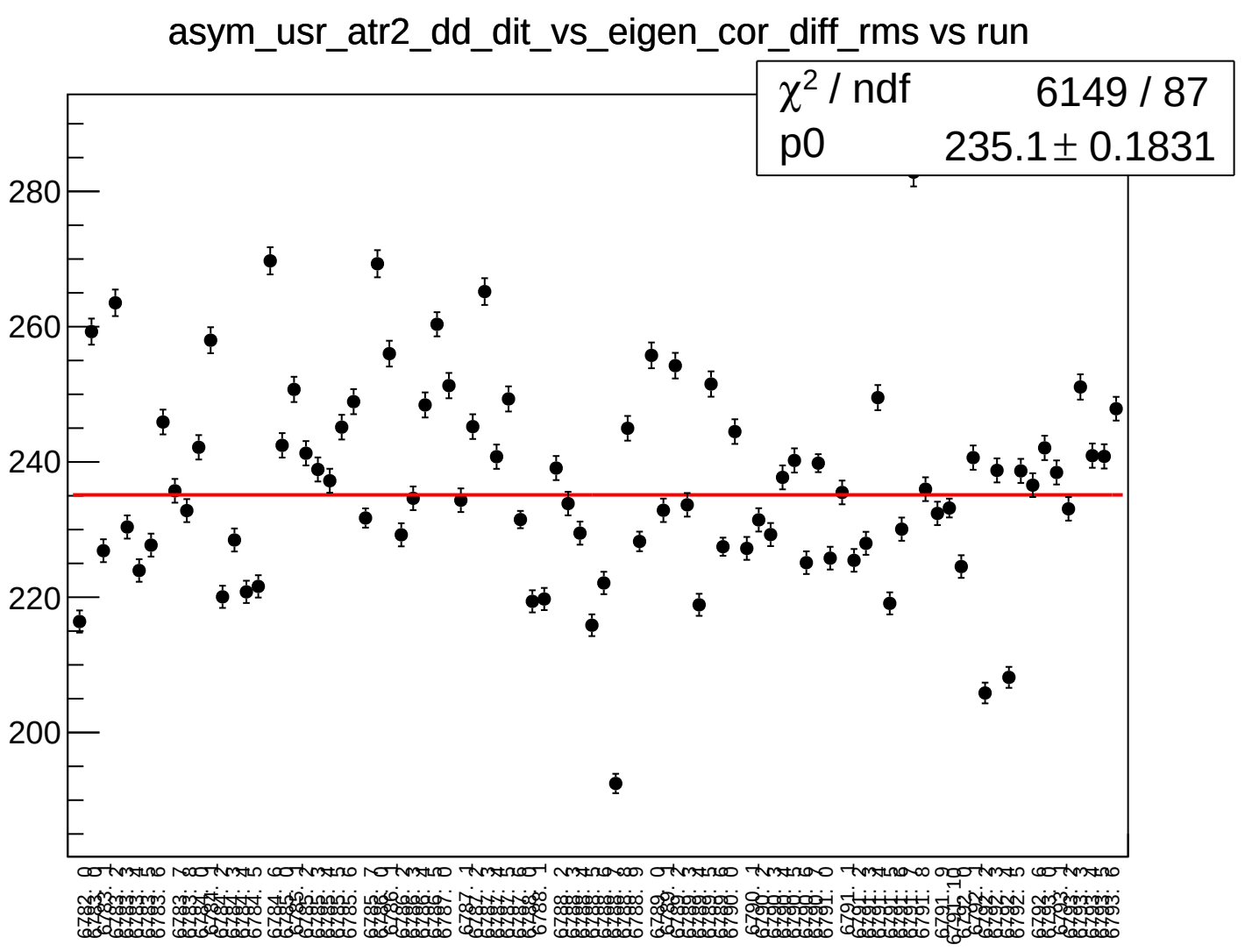

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.65 / 87
p0 0.2294 ± 0.259
pull
Entries 88
Mean 1019
Std Dev 0

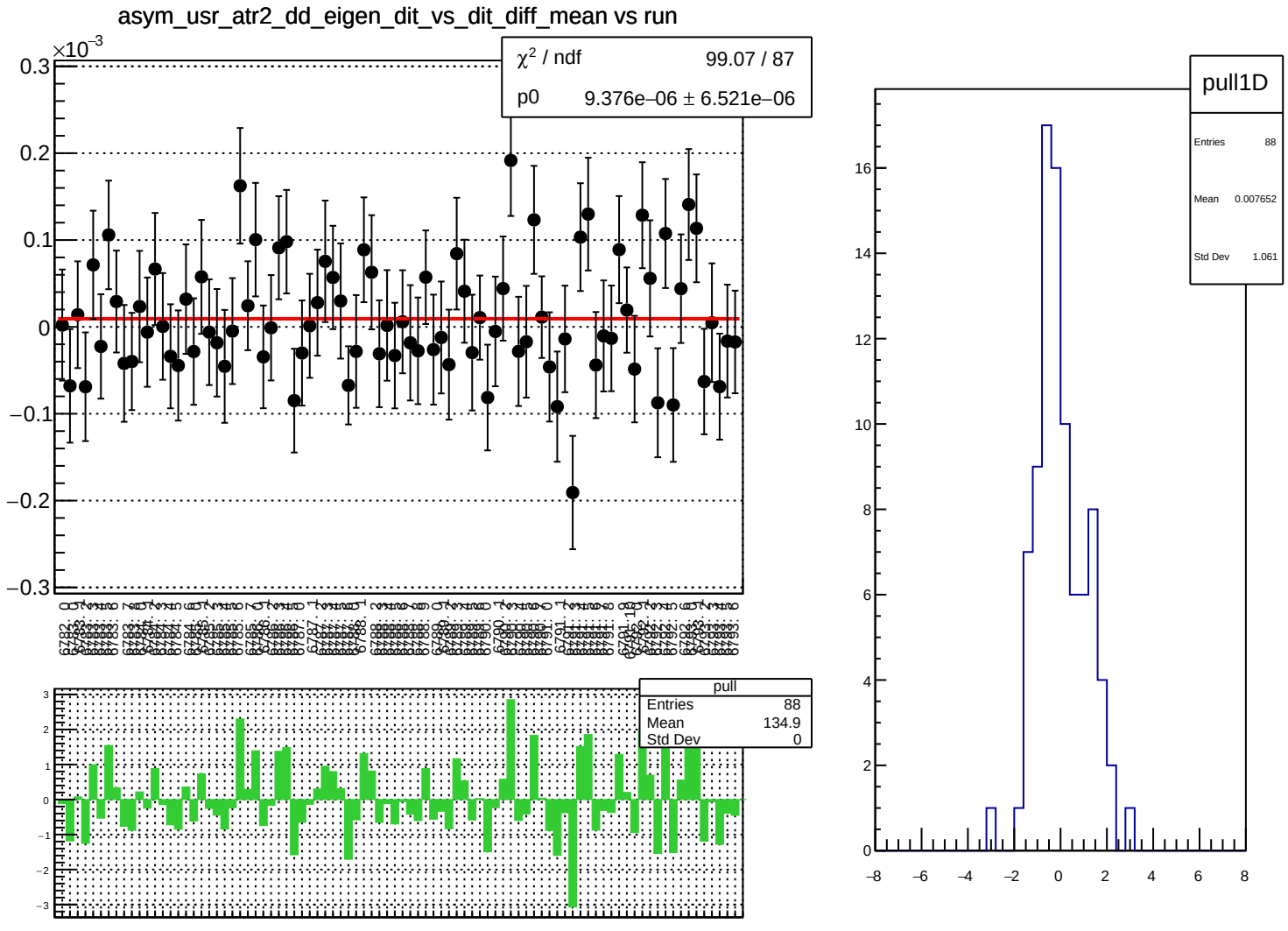

pull1D
Entries 88
Mean 0.003588
Std Dev 0.8637

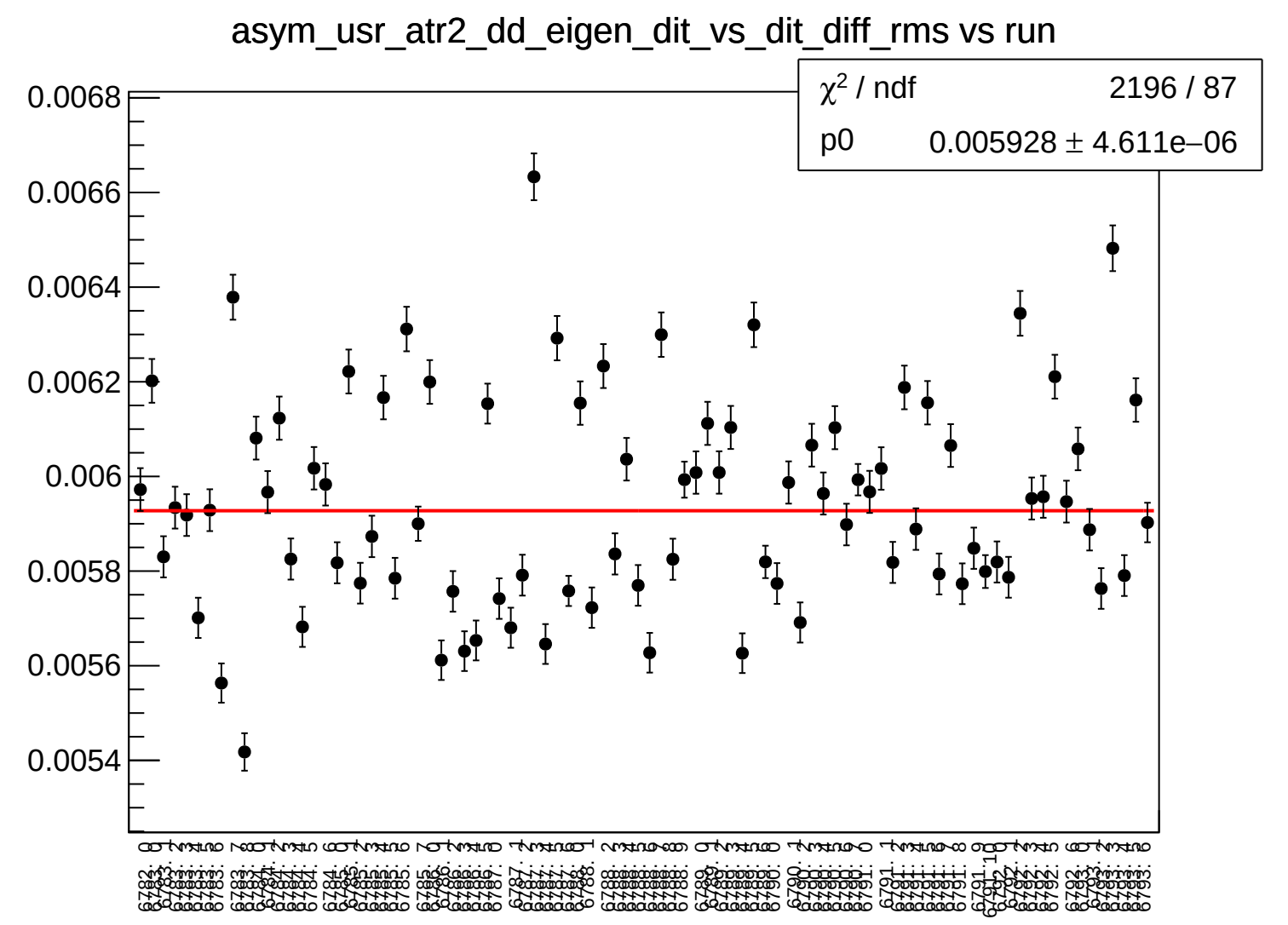

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6149 / 87
p0 235.1 ± 0.1831
280
260
240
220
200

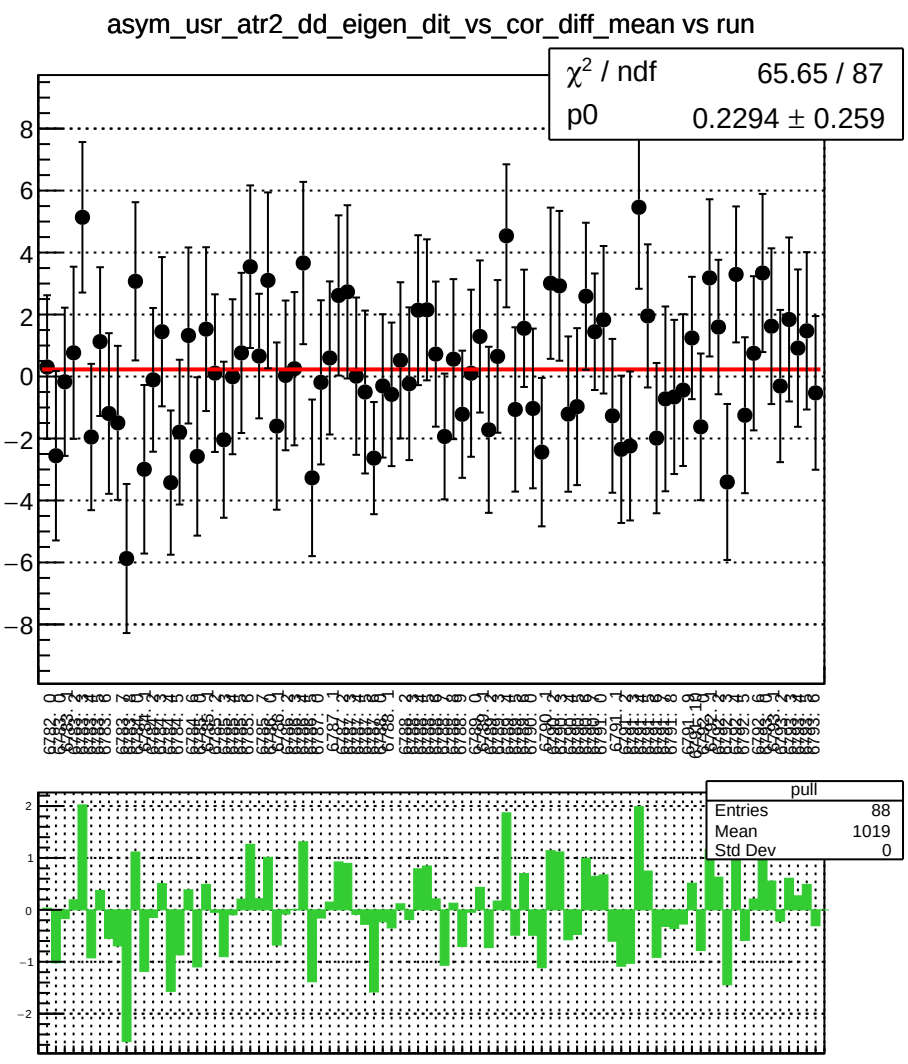

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.65 / 87
p0 0.2294 ± 0.259
pull
Entries 88
Mean 1019
Std Dev 0

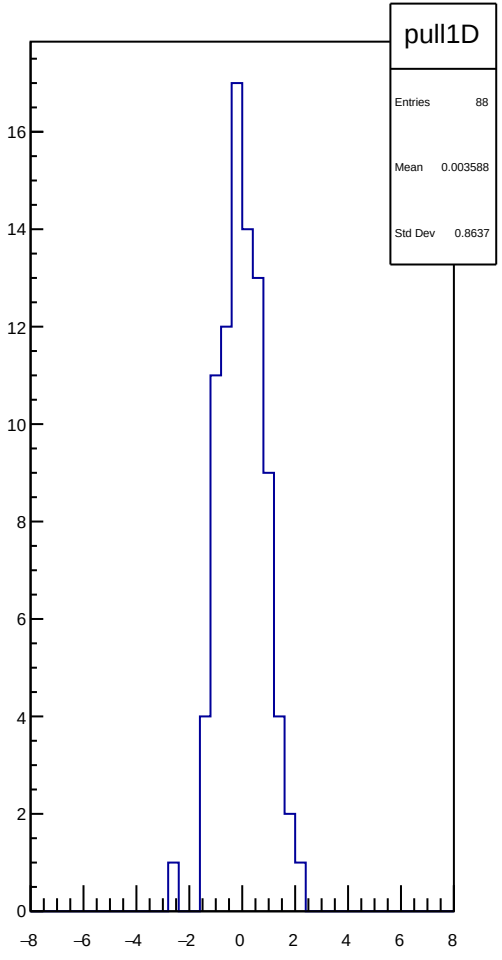

pull1D
Entries 88
Mean 0.003588
Std Dev 0.8637

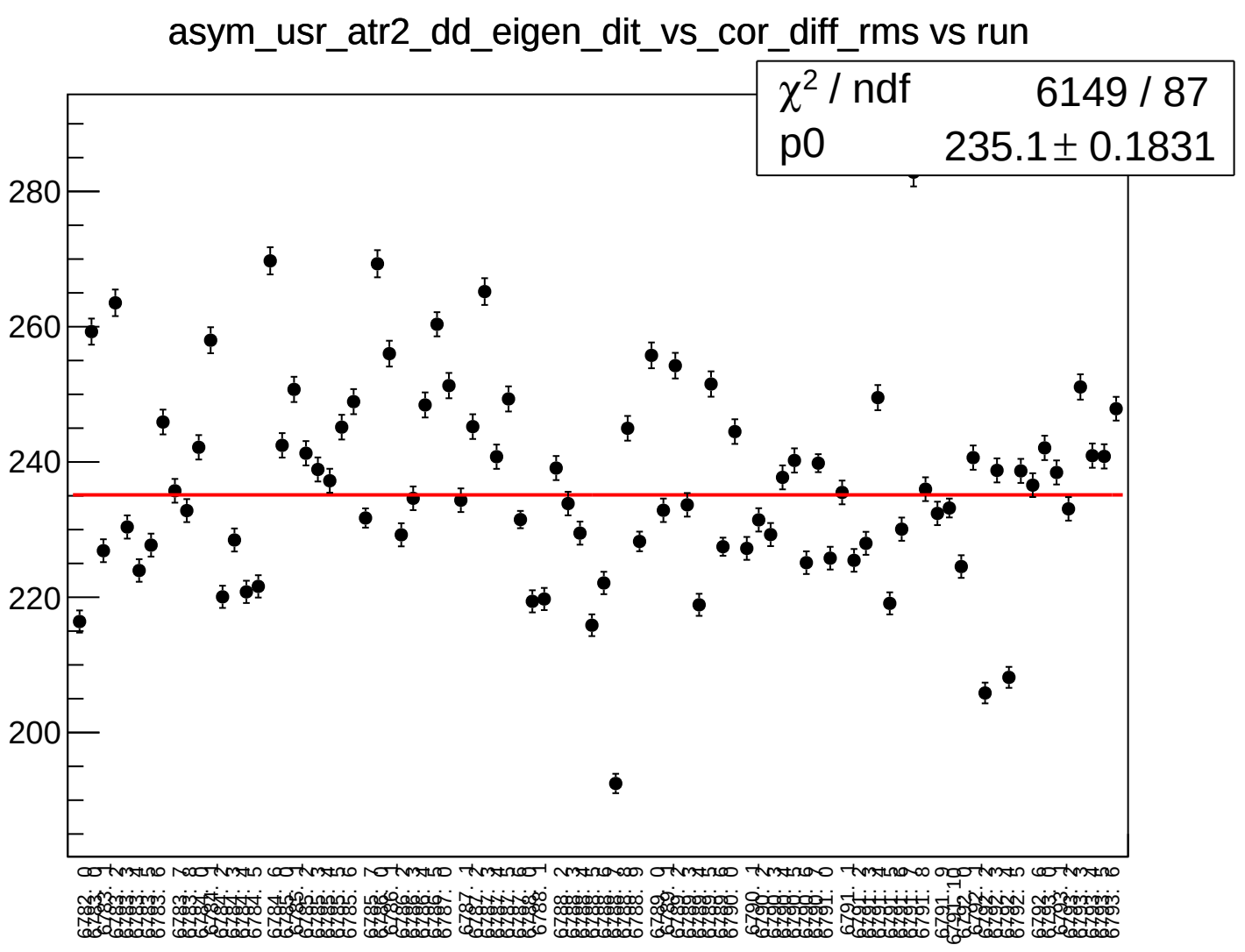

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6149 / 87
p0 235.1 ± 0.1831
280
260
240
220
200

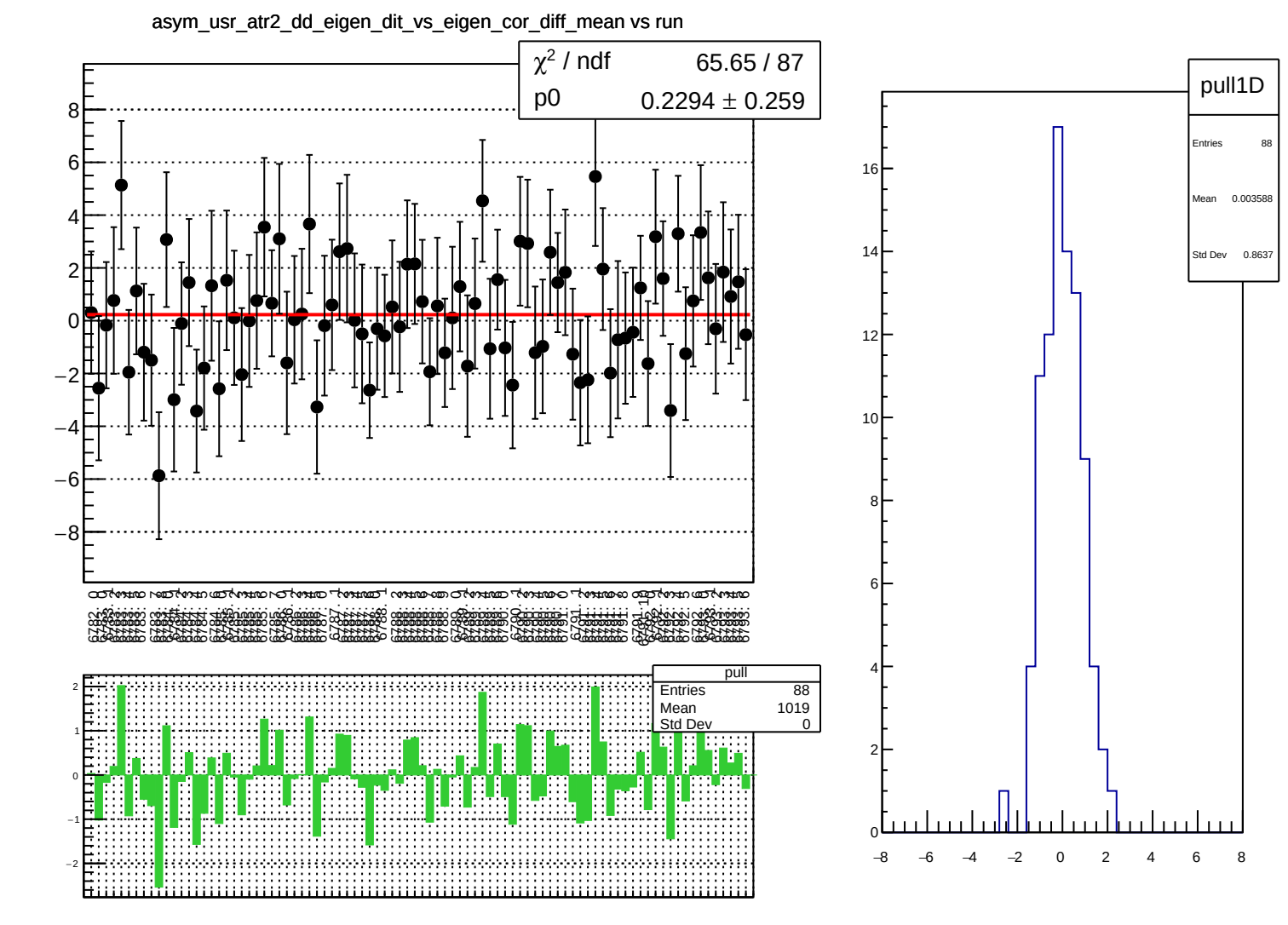

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.07 / 87
p0 9.376e−06 ± 6.521e−06
pull
Entries 88
Mean 134.9
Std Dev 0
pull1D
Entries 88
Mean 0.007652
Std Dev 1.061

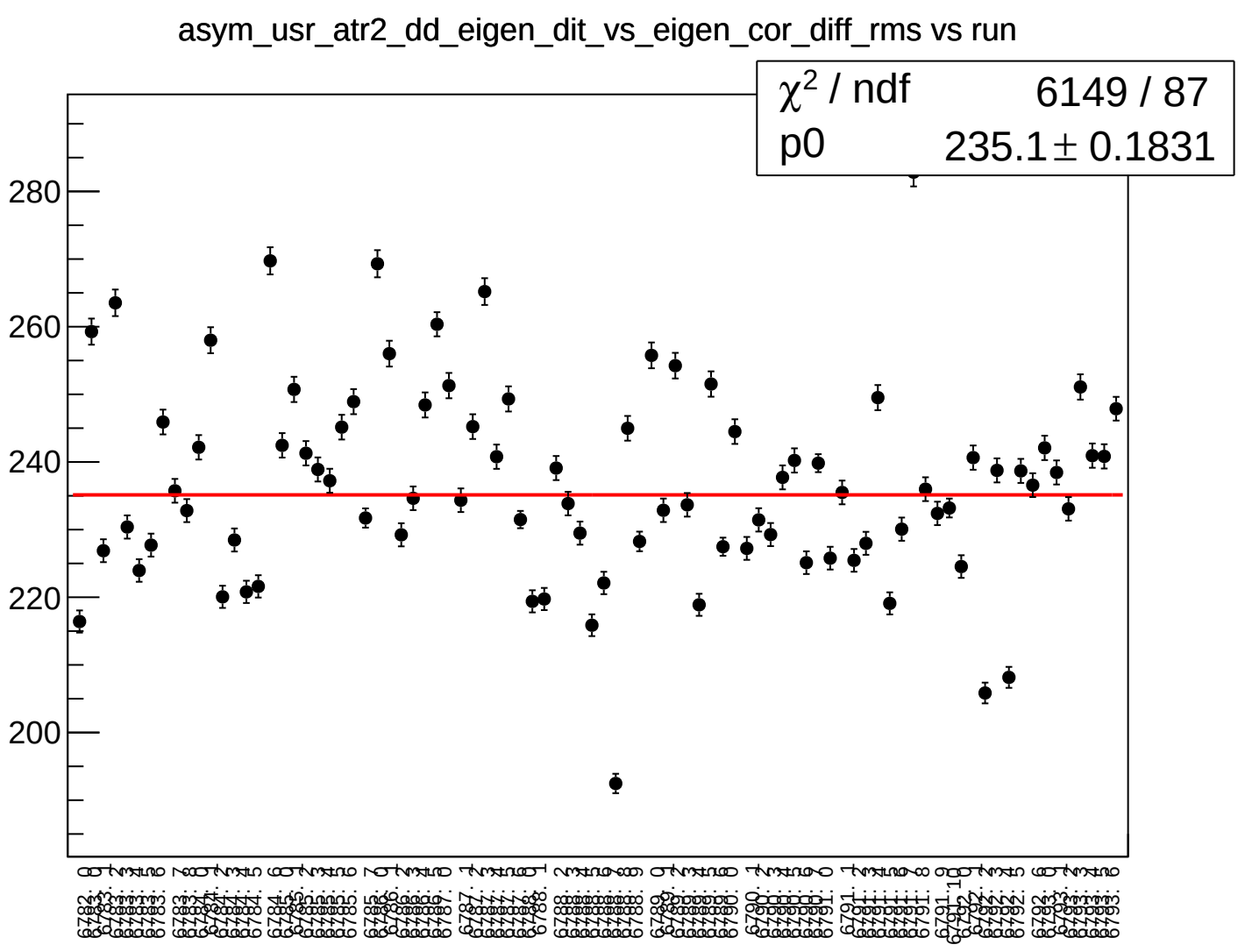

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2196 / 87
p0 0.005928 ± 4.611e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

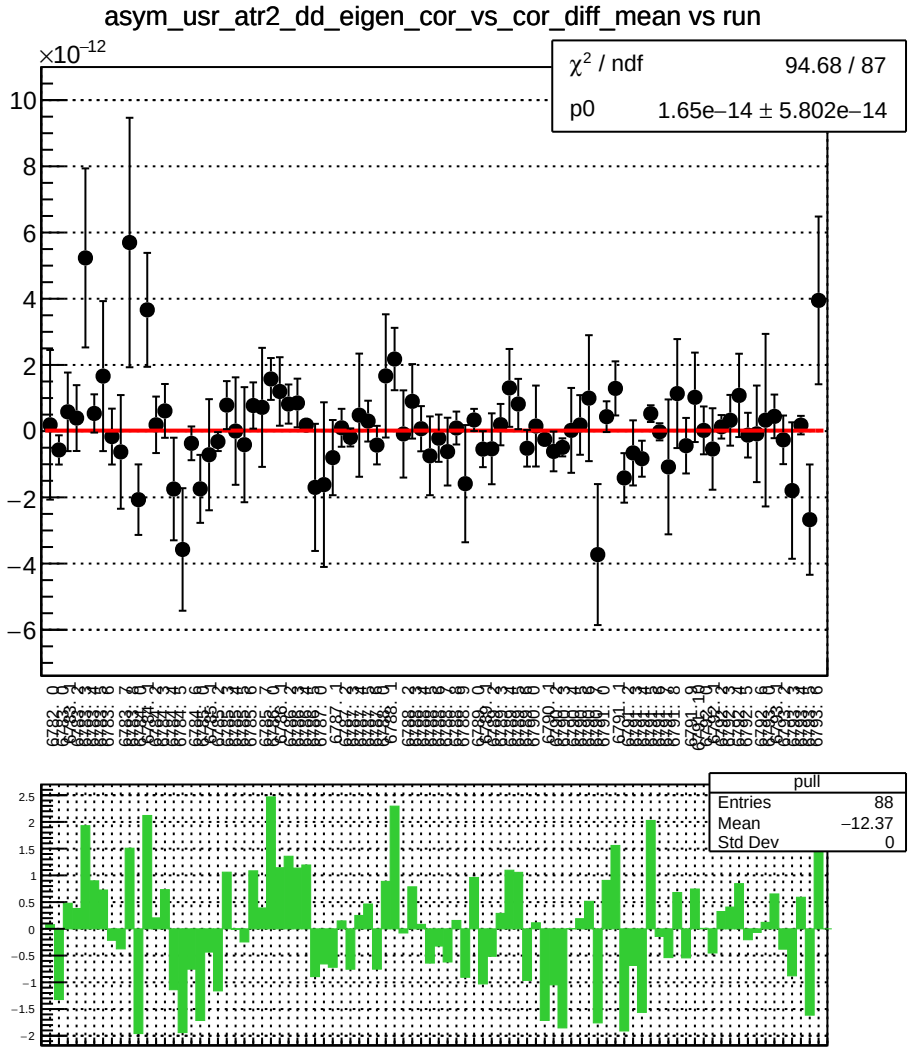

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.65 / 87
p0 0.2294 ± 0.259
pull
Entries 88
Mean 1019
Std Dev 0

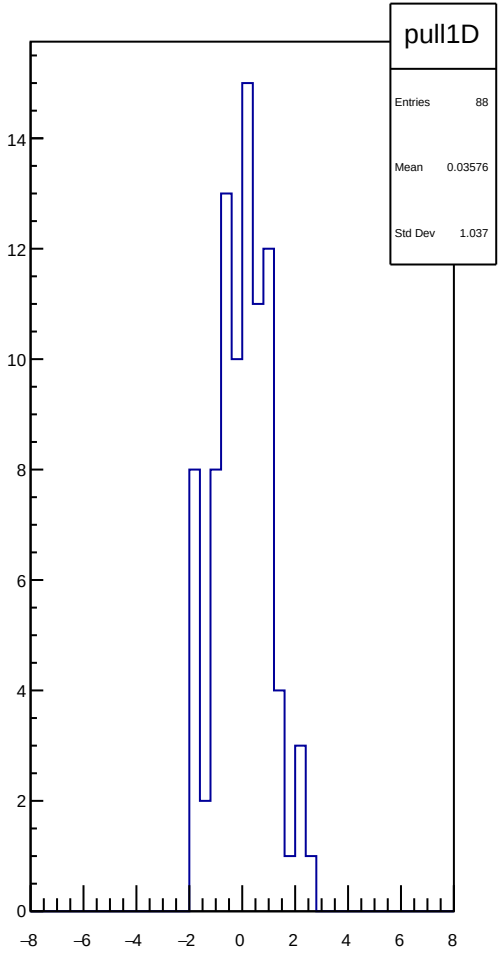

pull1D
Entries 88
Mean 0.003588
Std Dev 0.8637

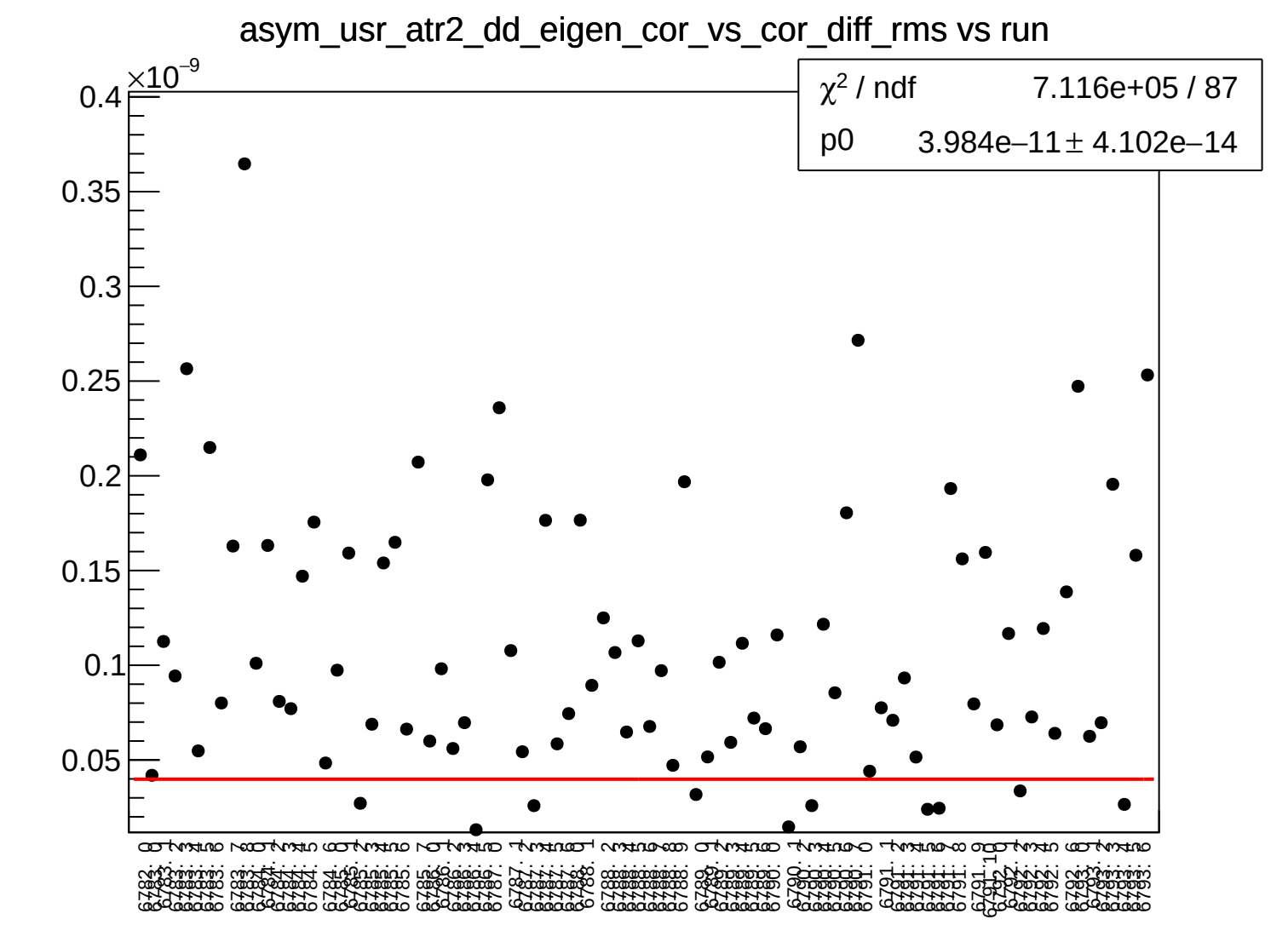

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6149 / 87
p0 235.1 ± 0.1831
280
260
240
220
200

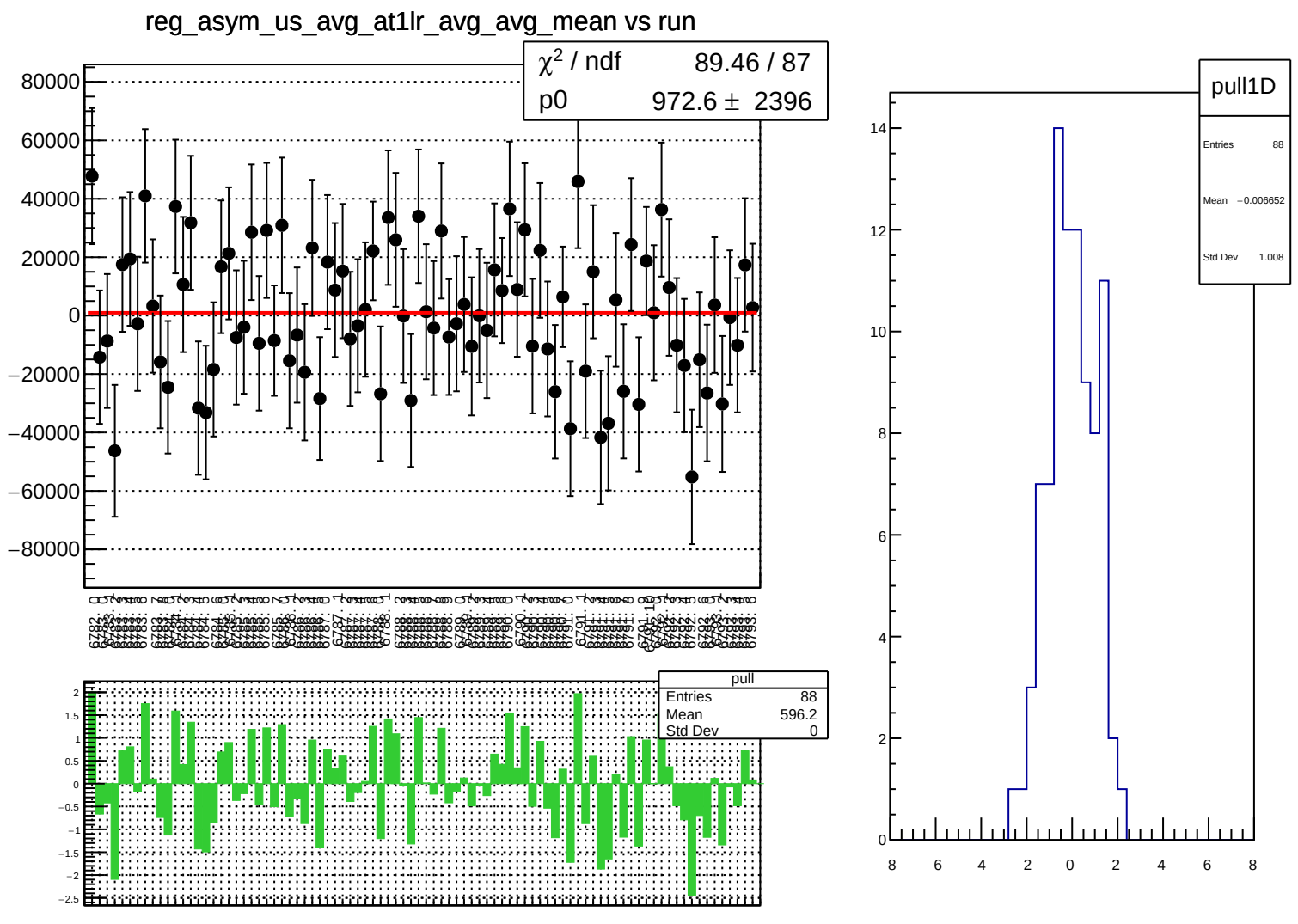

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.65 / 87
p0 0.2294 ± 0.259
pull
Entries 88
Mean 1019
Std Dev 0
pull1D
Entries 88
Mean 0.003588
Std Dev 0.8637

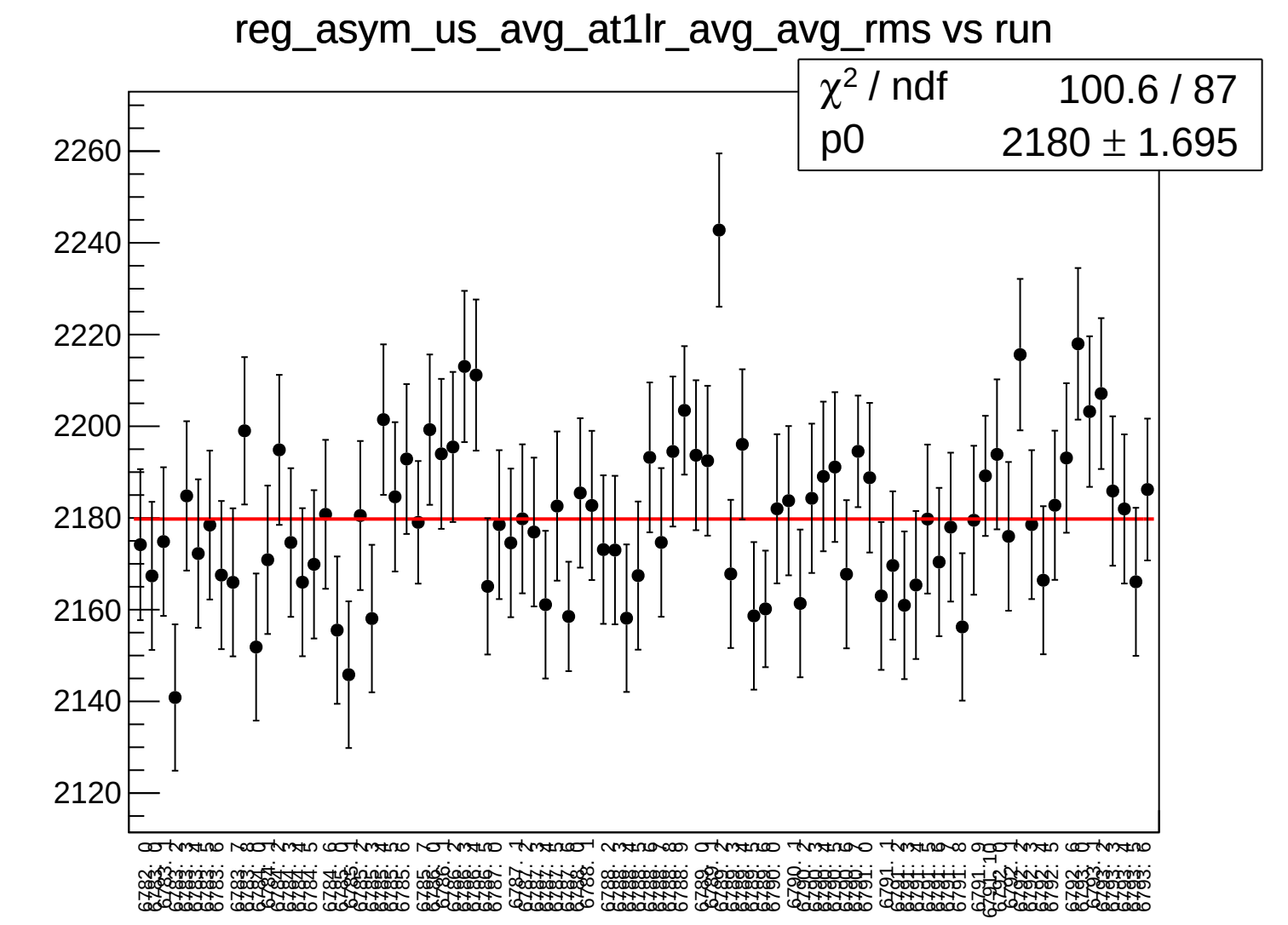

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6149 / 87
p0 235.1 ± 0.1831
280
260
240
220
200

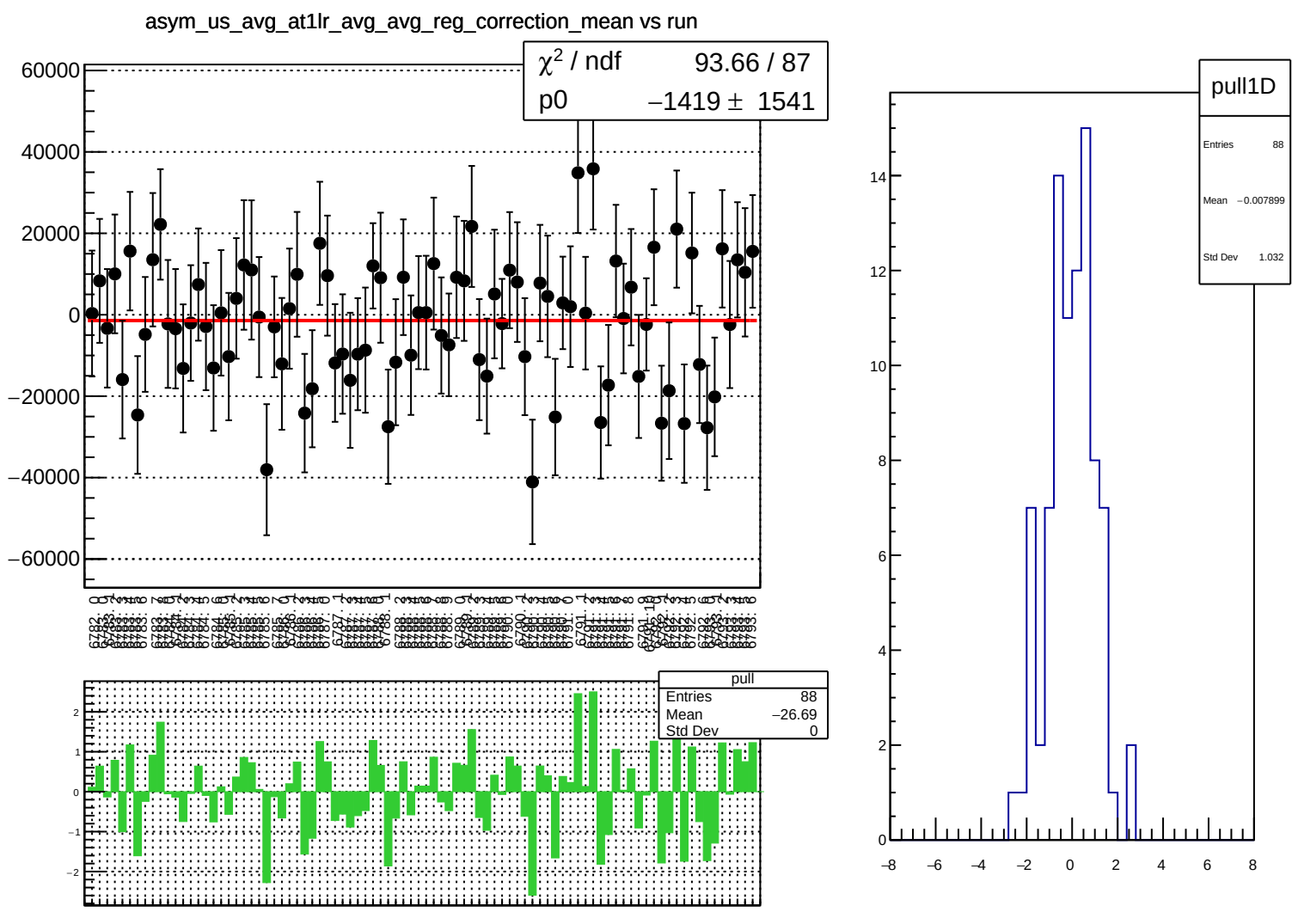

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.68 / 87
p0 1.65e−14 ± 5.802e−14
pull
Entries 88
Mean −12.37
Std Dev 0

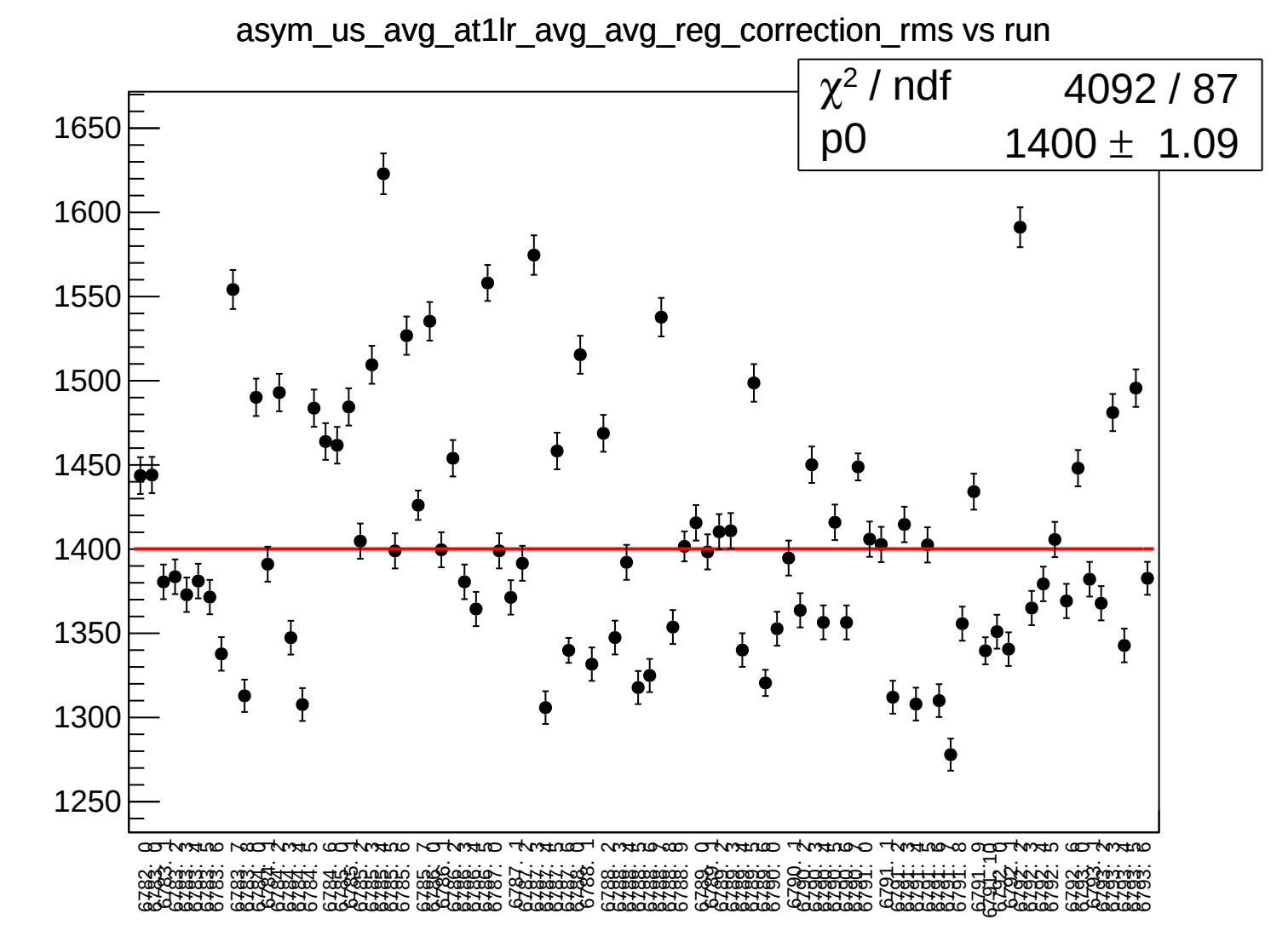

pull1D
Entries 88
Mean 0.03576
Std Dev 1.037

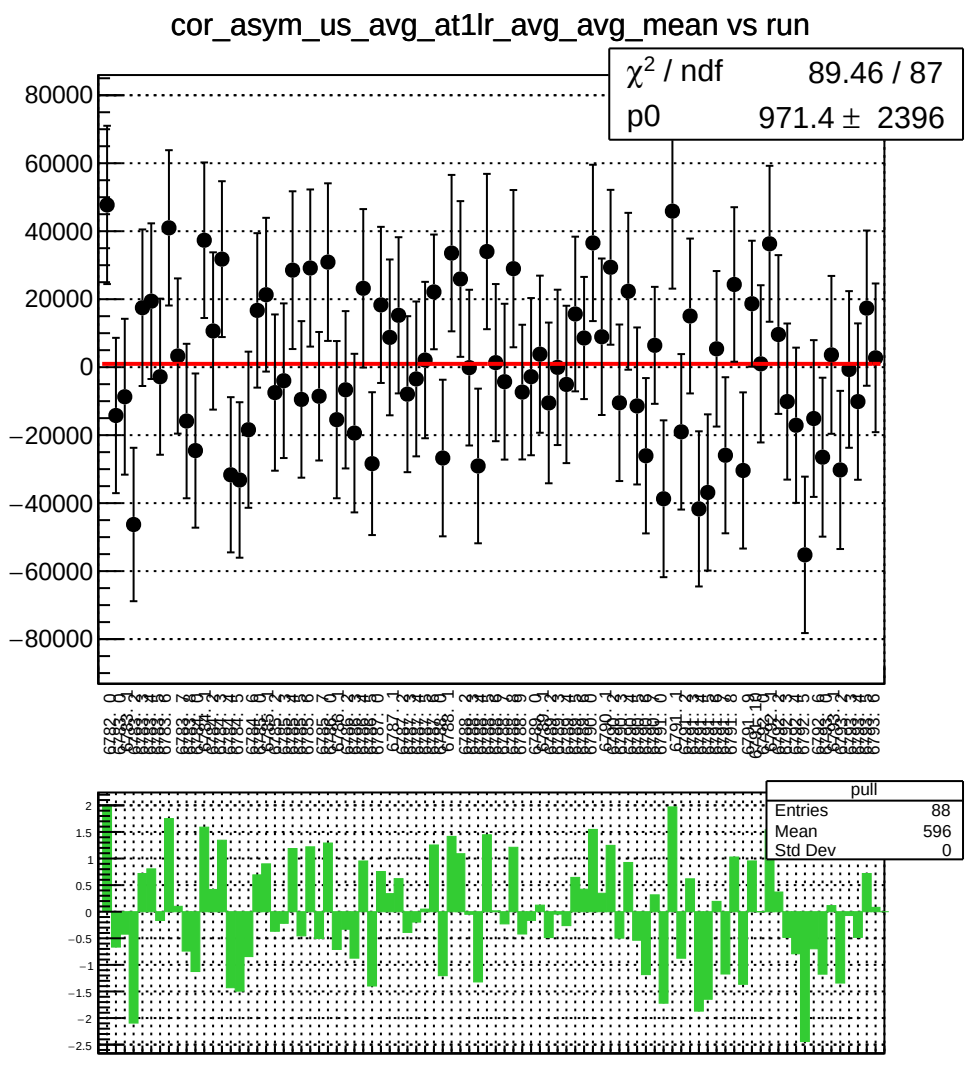

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.116e+05 / 87
p0 3.984e−11 ± 4.102e−14

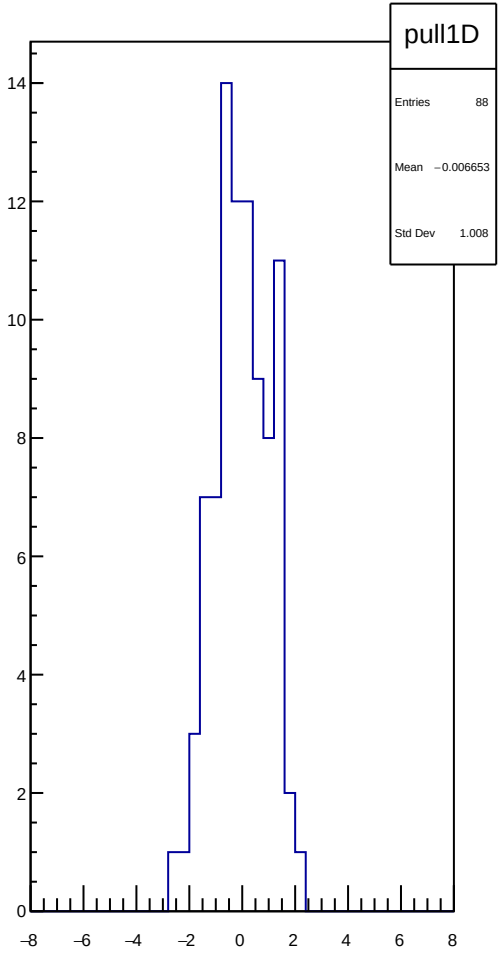

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.46 / 87
p0 972.6 ± 2396
pull
Entries 88
Mean 596.2
Std Dev 0
pull1D
Entries 88
Mean −0.006652
Std Dev 1.008

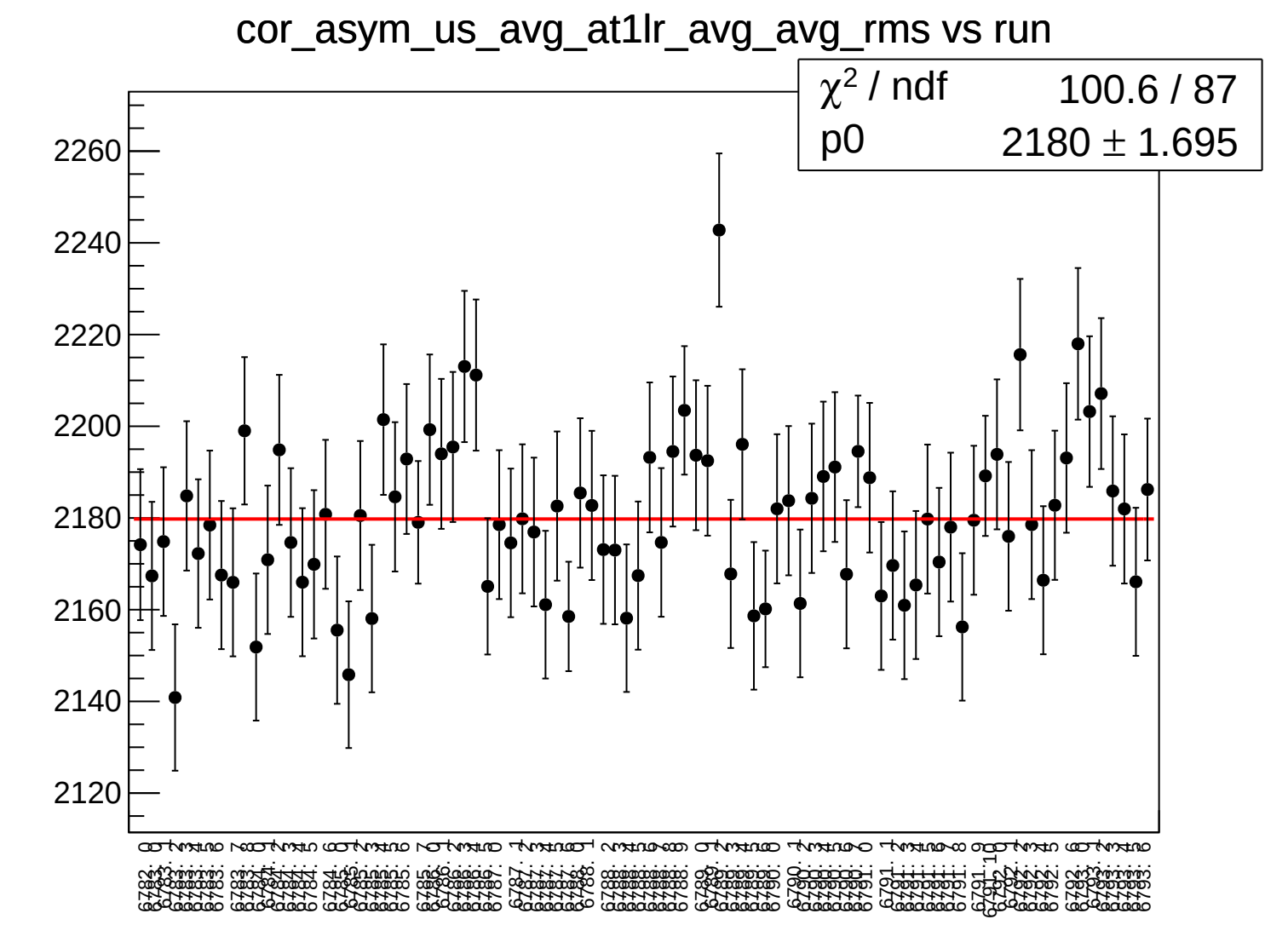

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 100.6 / 87
p0 2180 ± 1.695
2260
2240
2220
2200
2180
2160
2140
2120

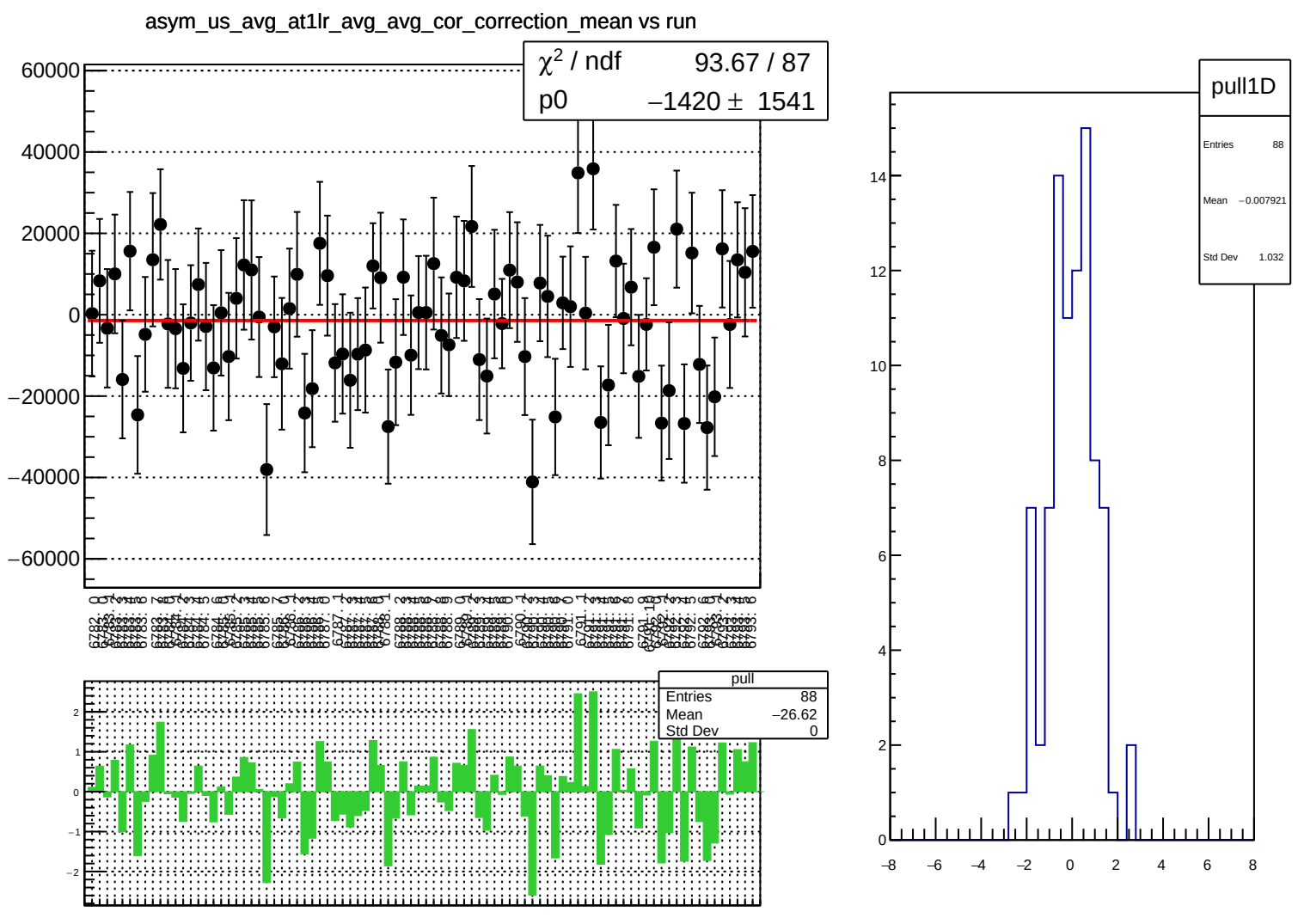

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 93.66 / 87
p0 −1419 ± 1541
pull
Entries 88
Mean −26.69
Std Dev 0
pull1D
Entries 88
Mean −0.007899
Std Dev 1.032

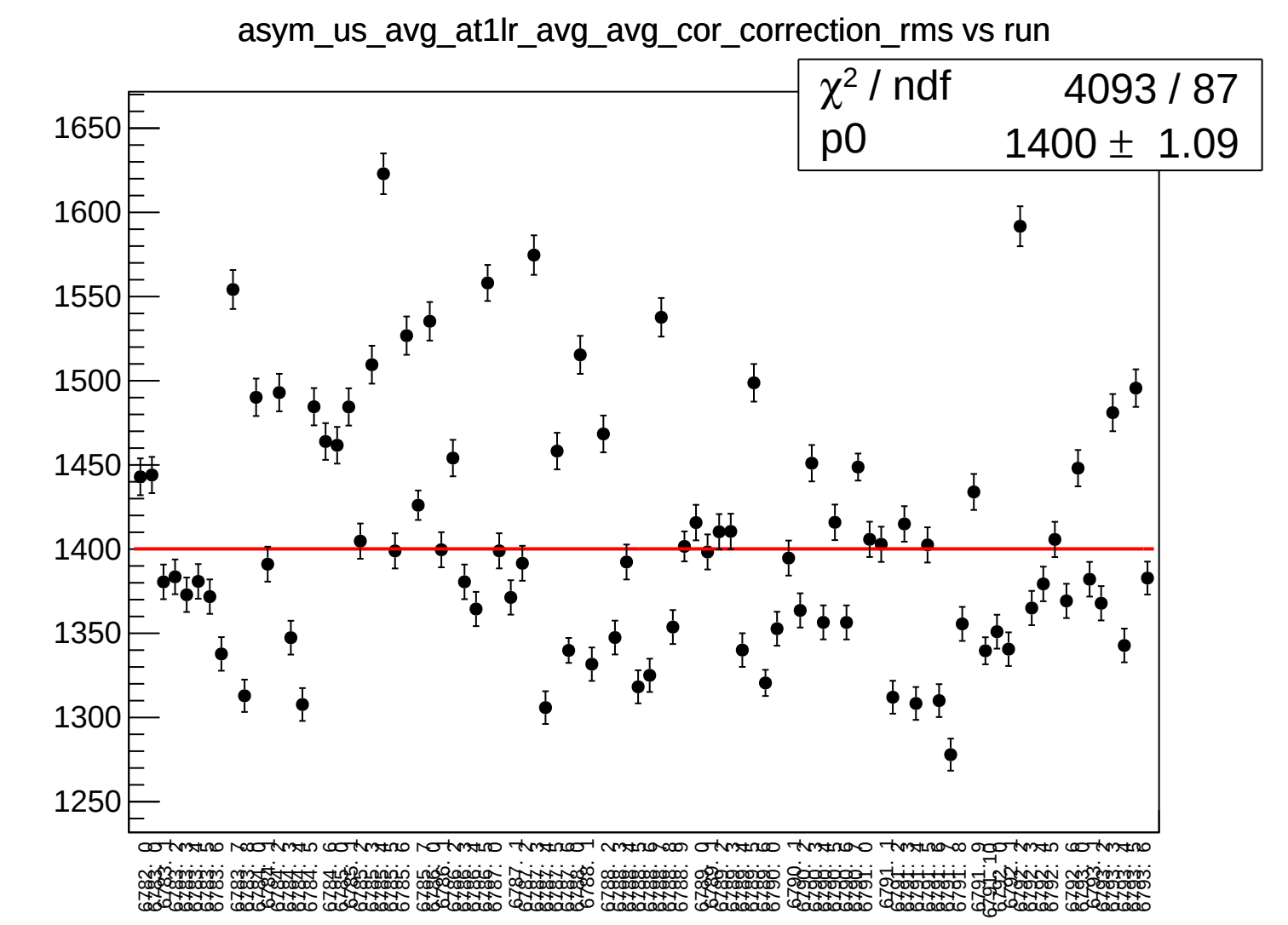

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4092 / 87
p0 1400 ± 1.09
1650
1600
1550
1500
1450
1400
1350
1300
1250

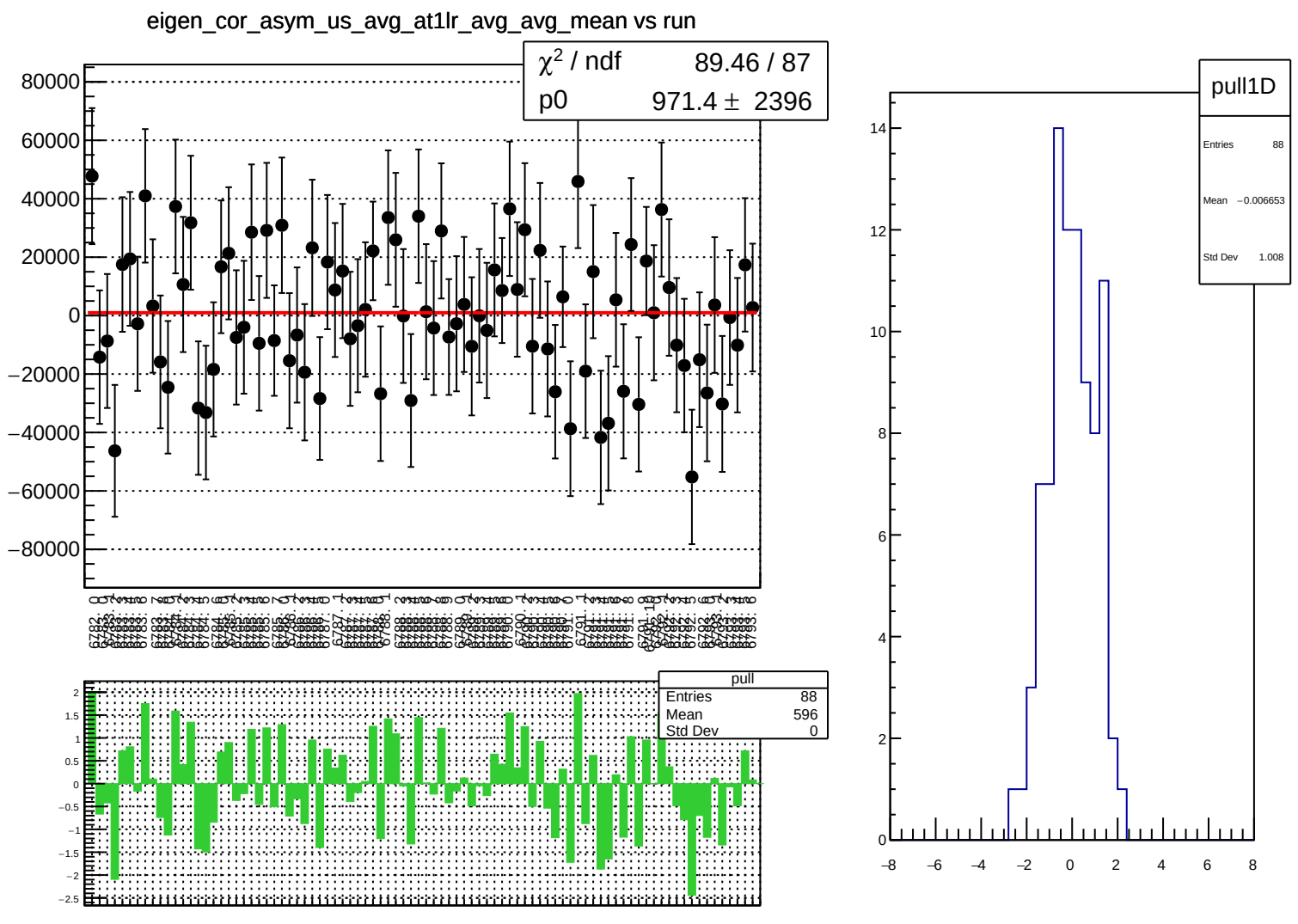

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.46 / 87
p0 971.4 ± 2396
pull
Entries 88
Mean 596
Std Dev 0

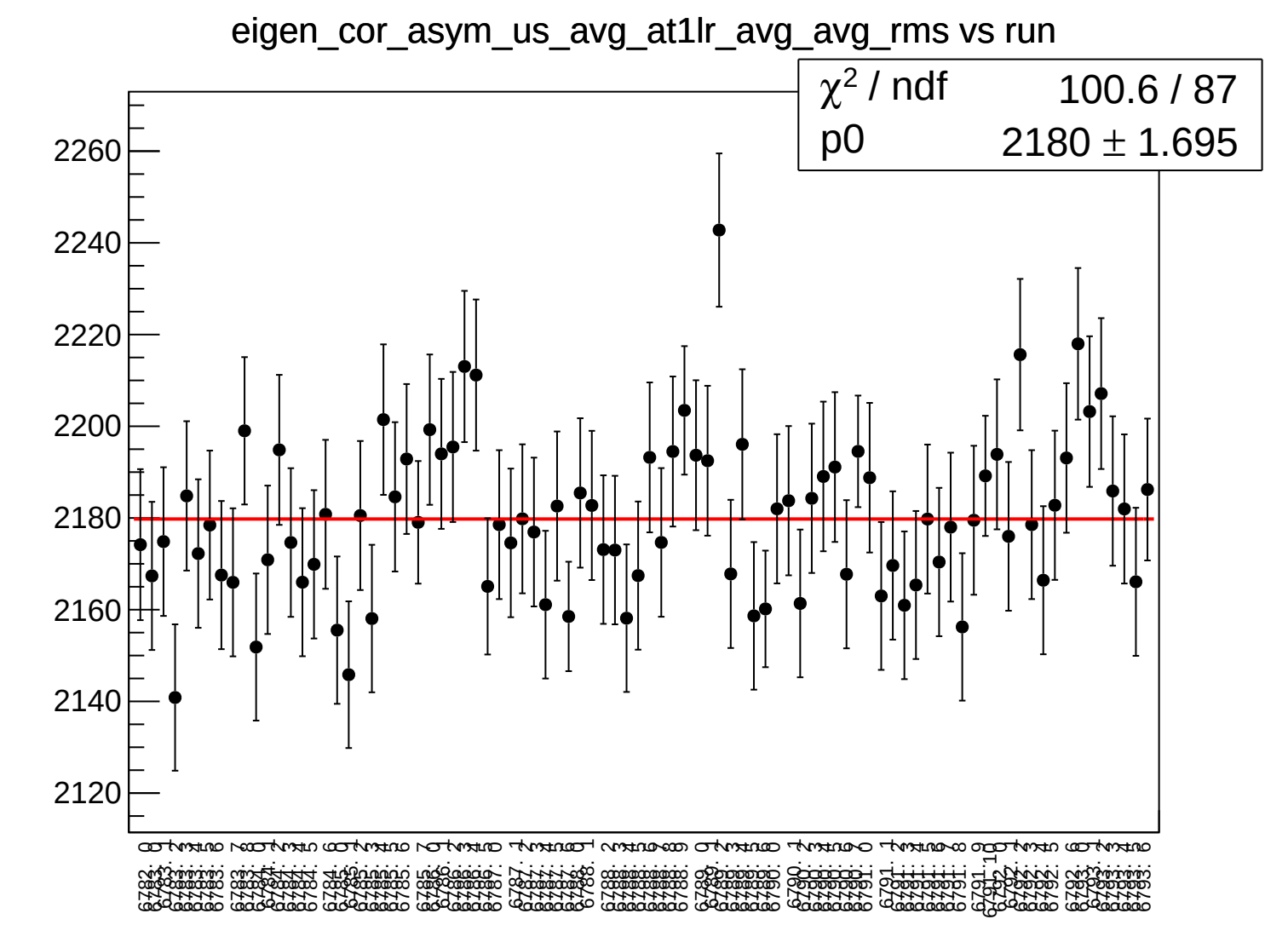

pull1D
Entries 88
Mean −0.006653
Std Dev 1.008

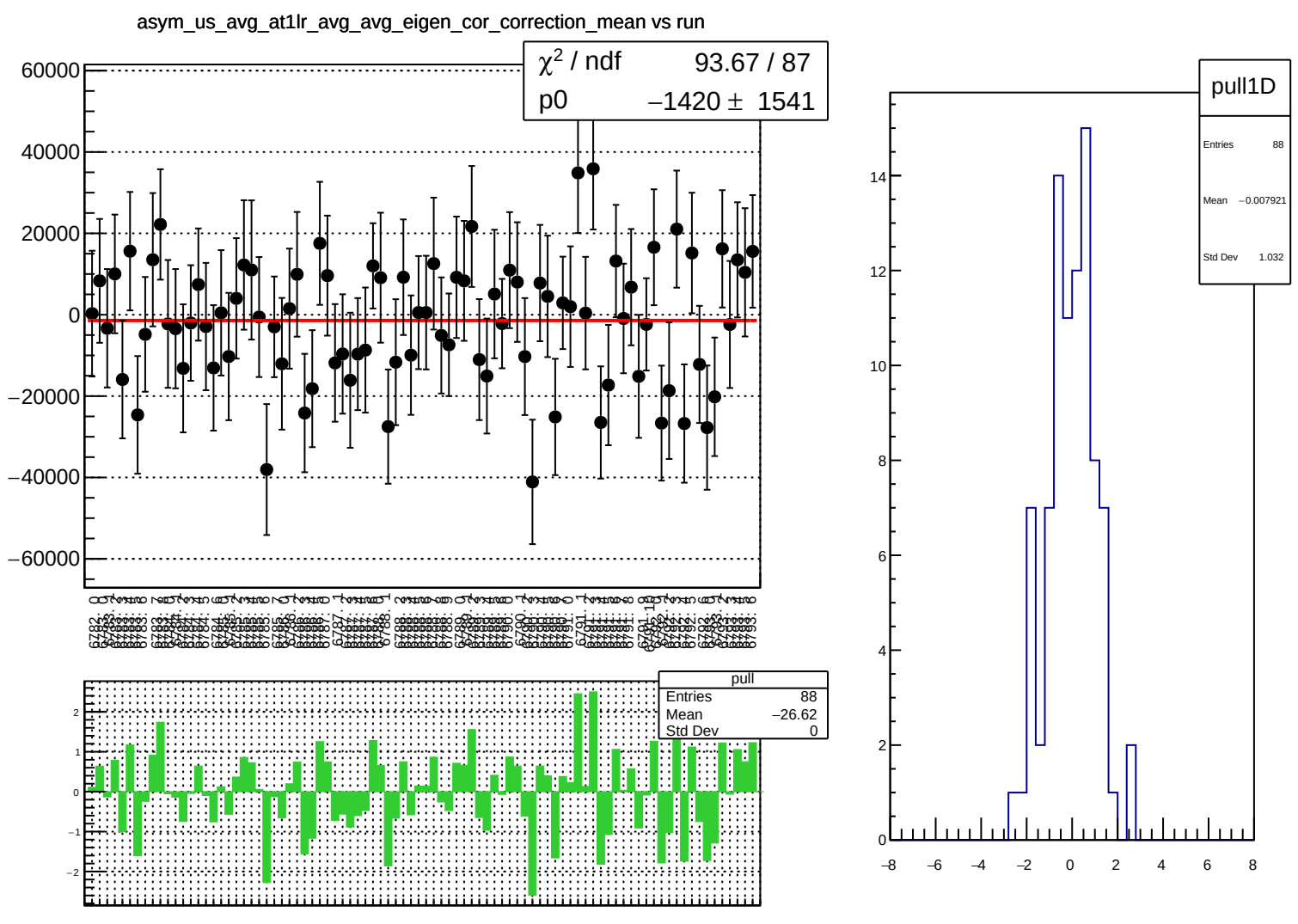

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 100.6 / 87
p0 2180 ± 1.695
2260
2240
2220
2200
2180
2160
2140
2120

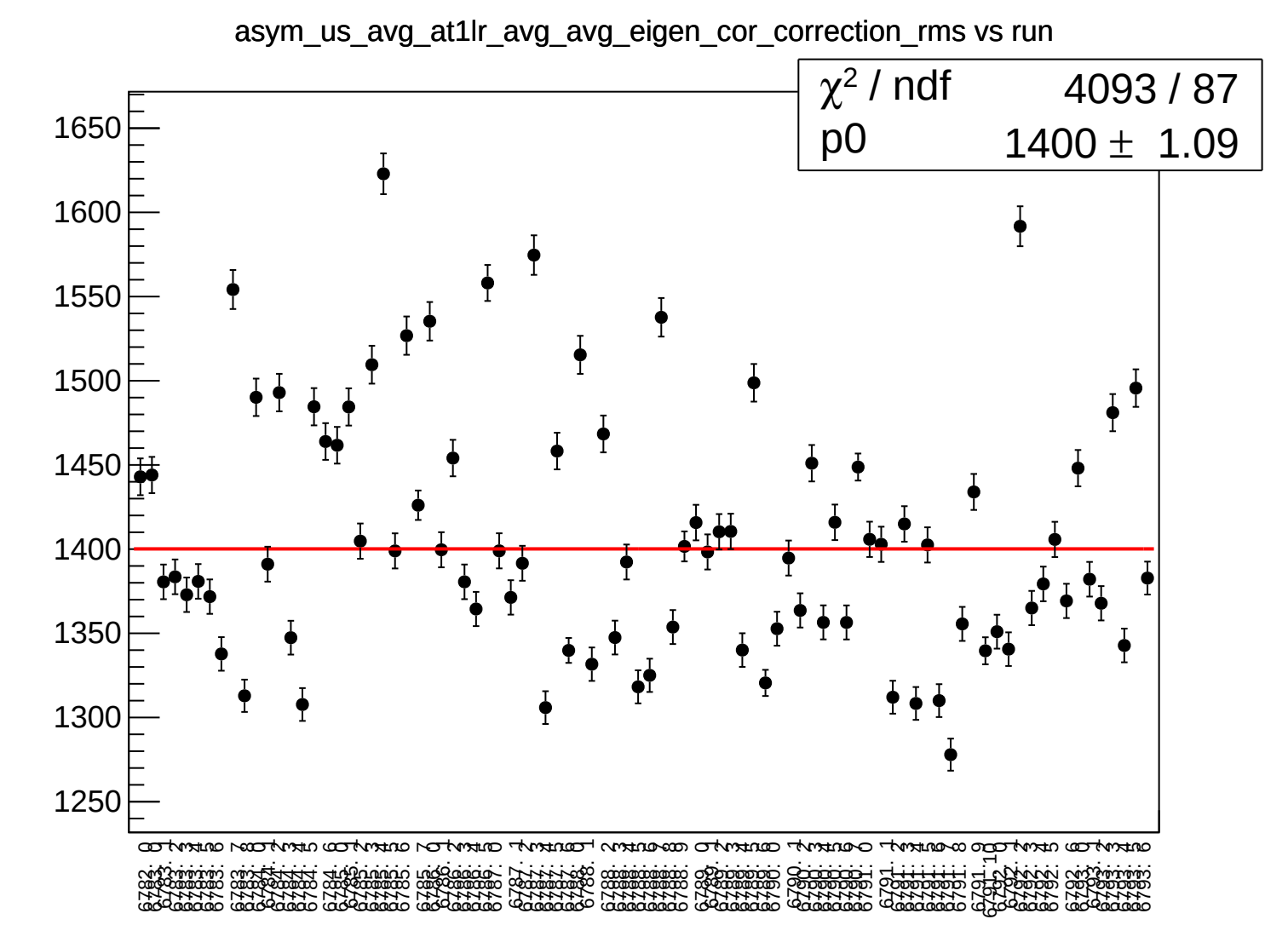

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 93.67 / 87
p0 −1420 ± 1541
pull
Entries 88
Mean −26.62
Std Dev 0
pull1D
Entries 88
Mean −0.007921
Std Dev 1.032

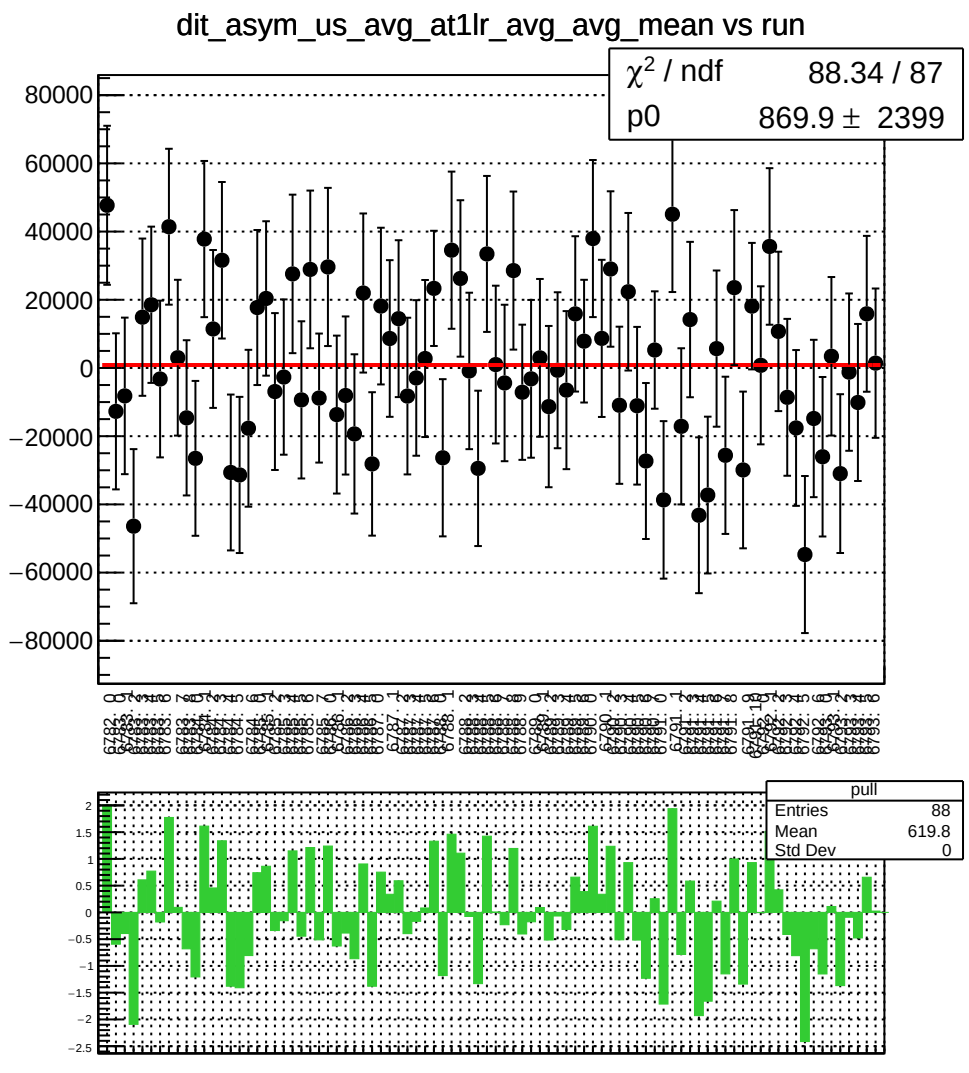

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4093 / 87
p0 1400 ± 1.09
1650
1600
1550
1500
1450
1400
1350
1300
1250

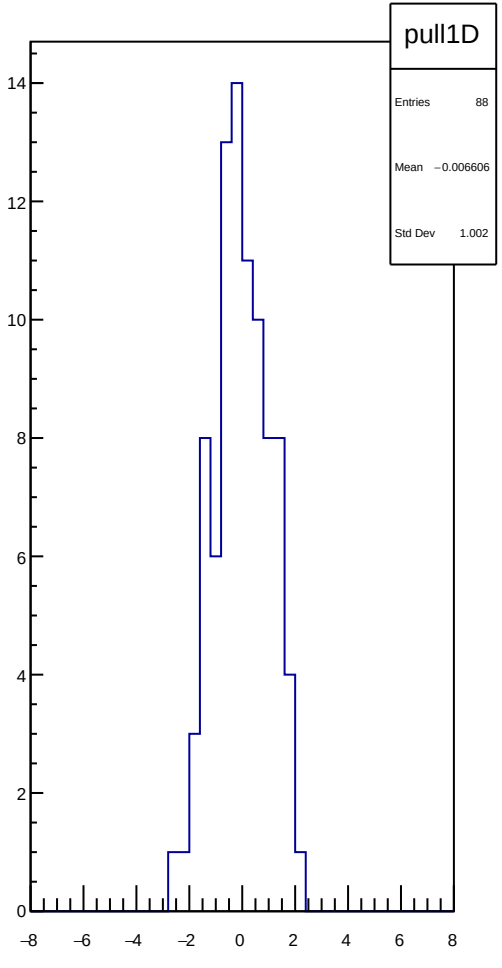

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.46 / 87
p0 971.4 ± 2396
pull
Entries 88
Mean 596
Std Dev 0
pull1D
Entries 88
Mean −0.006653
Std Dev 1.008

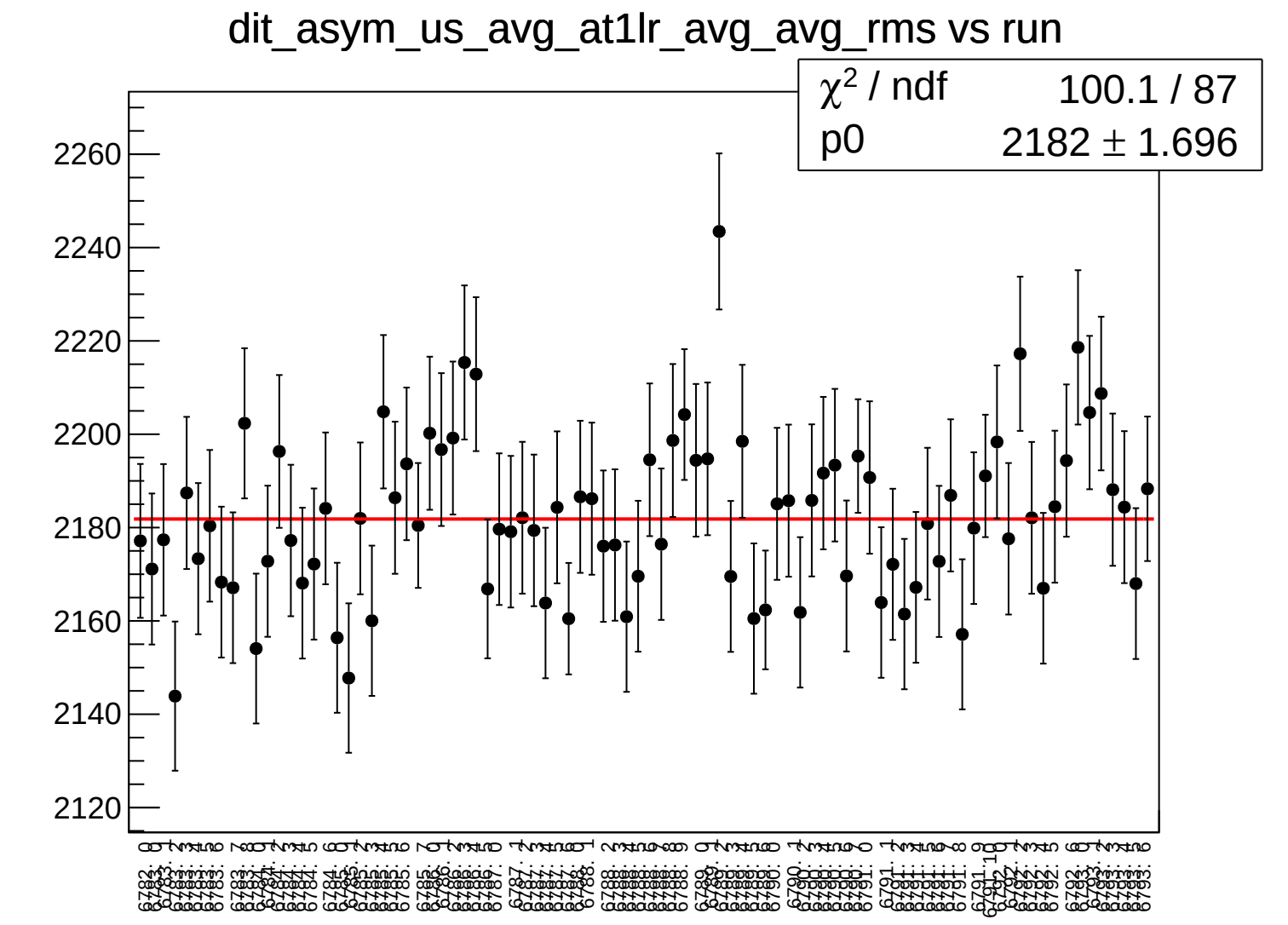

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 100.6 / 87
p0 2180 ± 1.695
2260
2240
2220
2200
2180
2160
2140
2120

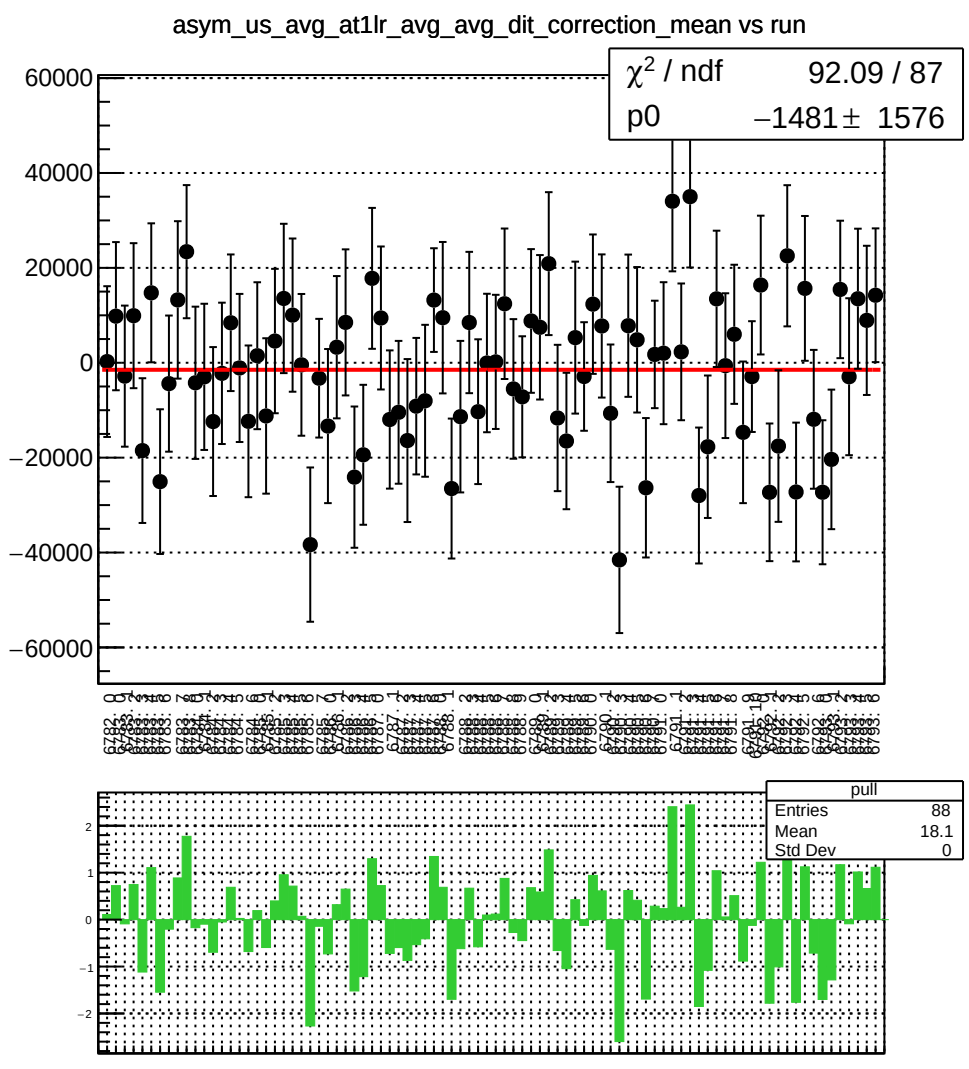

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.67 / 87
p0 −1420 ± 1541
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −26.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007921
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

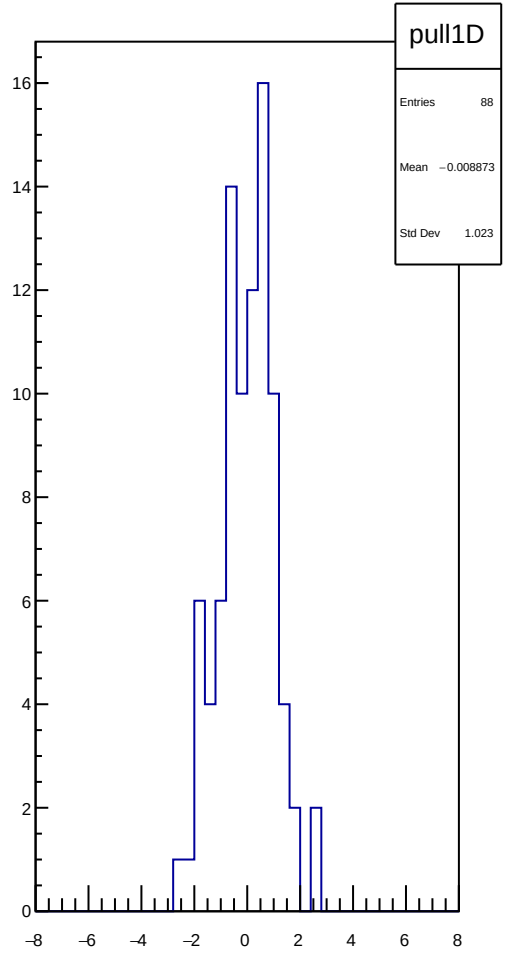

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4093 / 87
p0 1400 ± 1.09
1650
1600
1550
1500
1450
1400
1350
1300
1250

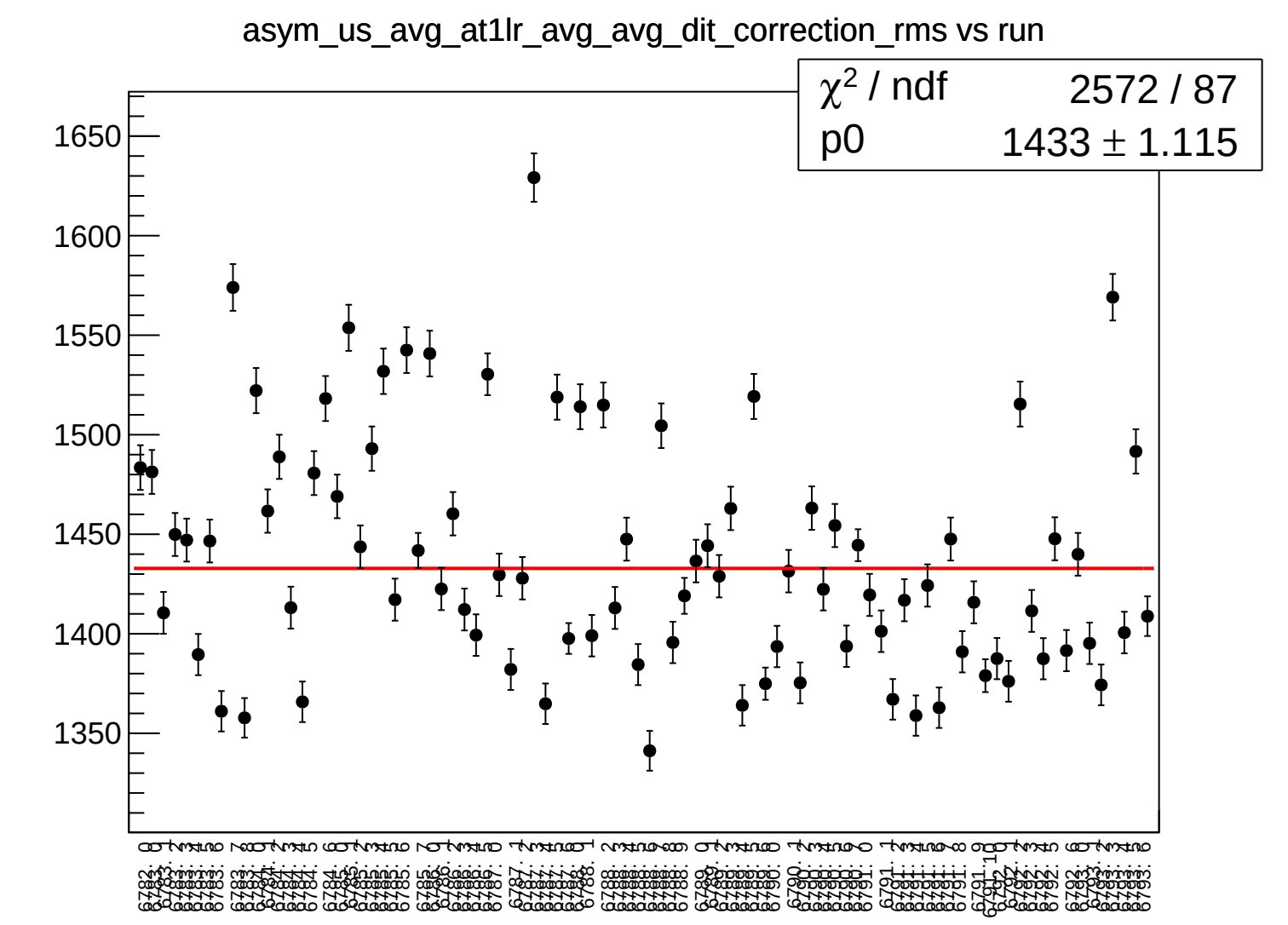

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 88.34 / 87
p0 869.9 ± 2399
pull
Entries 88
Mean 619.8
Std Dev 0

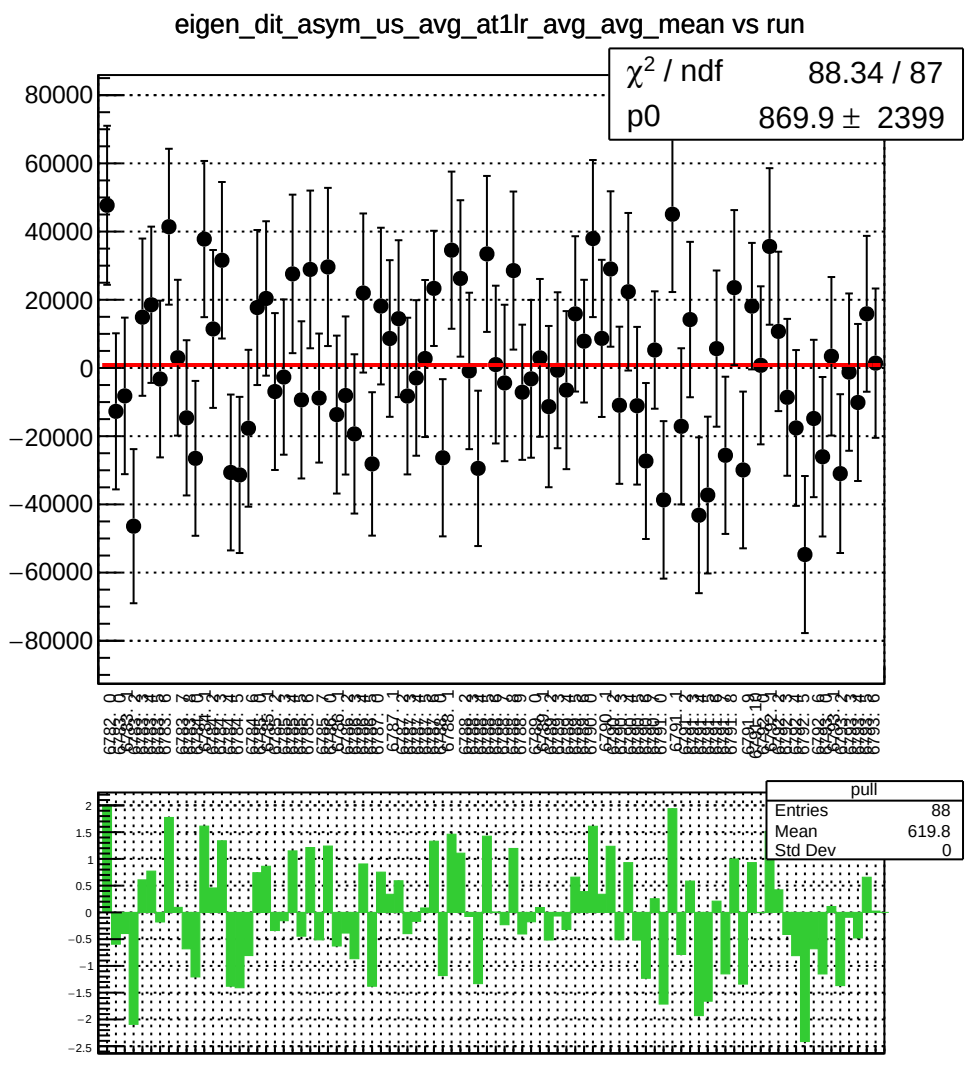

pull1D
Entries 88
Mean −0.006606
Std Dev 1.002

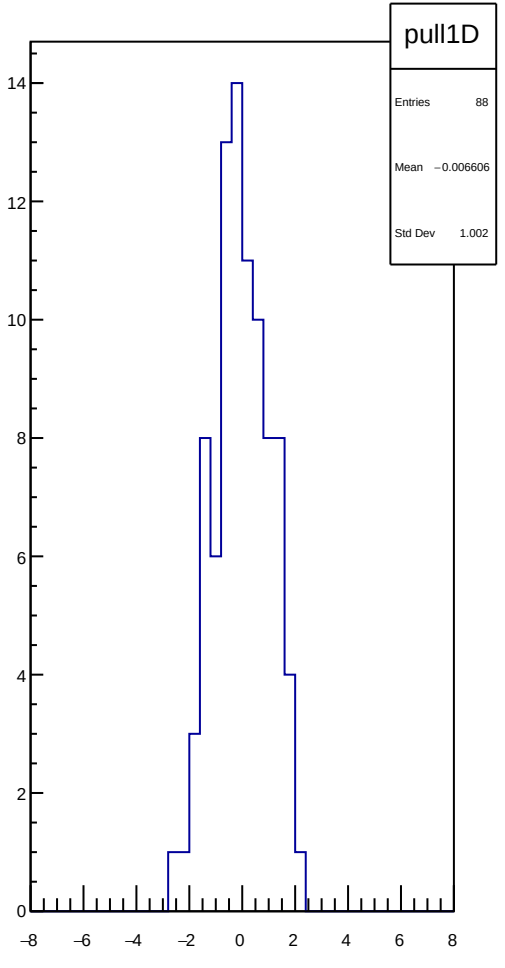

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 100.1 / 87
p0 2182 ± 1.696
2260
2240
2220
2200
2180
2160
2140
2120

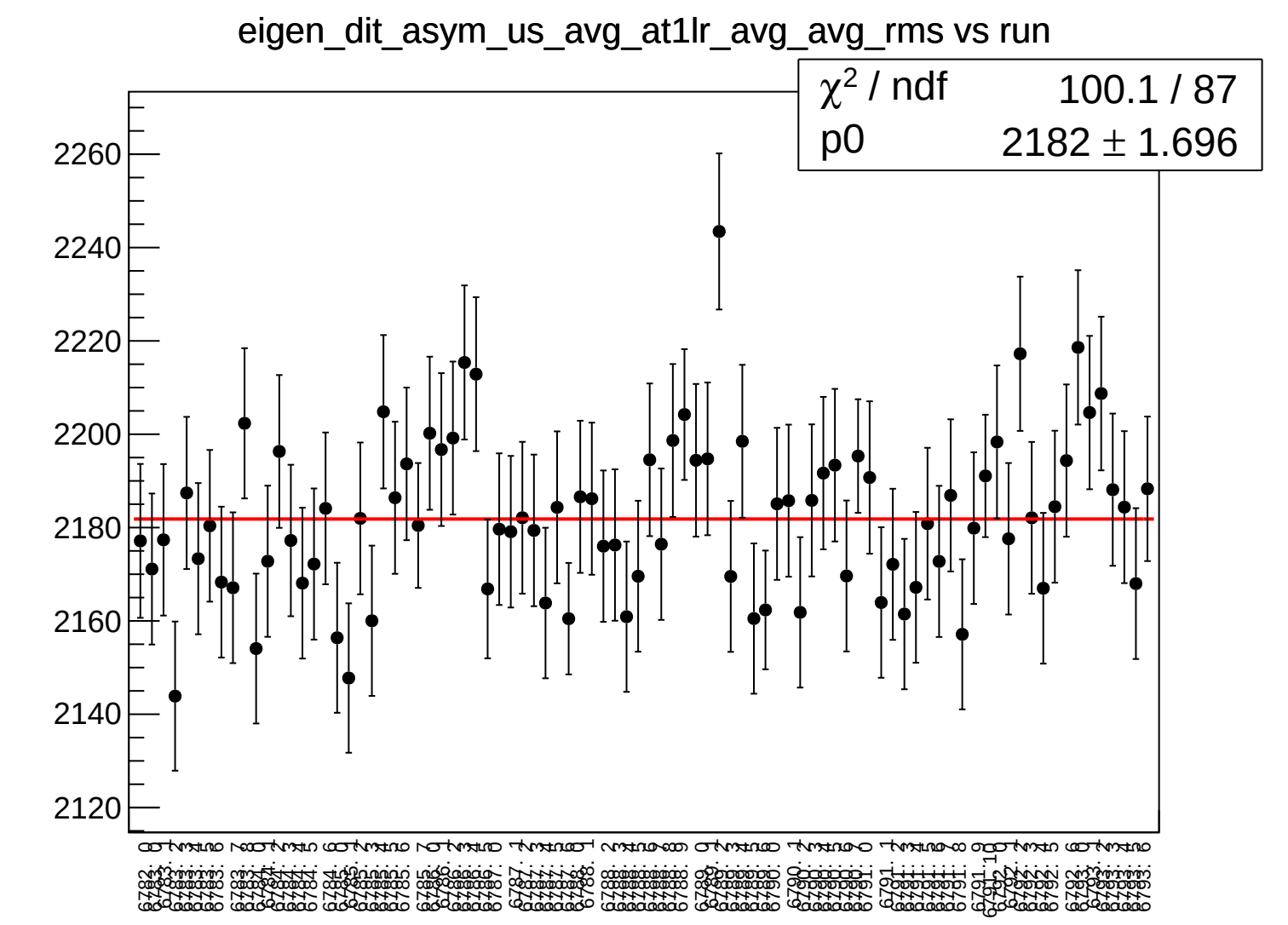

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 92.09 / 87
p0 −1481 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 18.1
Std Dev 0
2
1
0
−1
−2

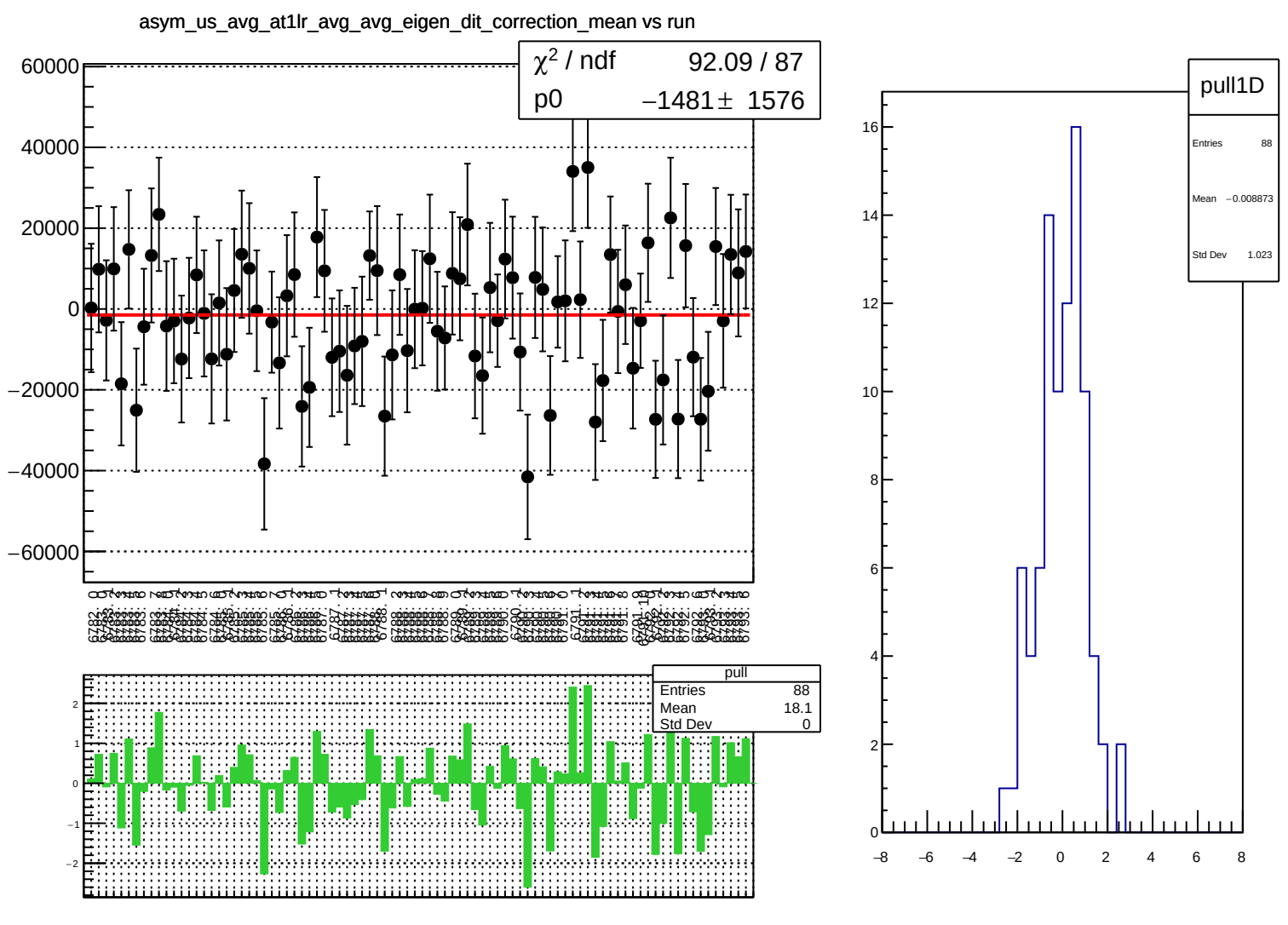

pull1D
Entries 88
Mean −0.008873
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

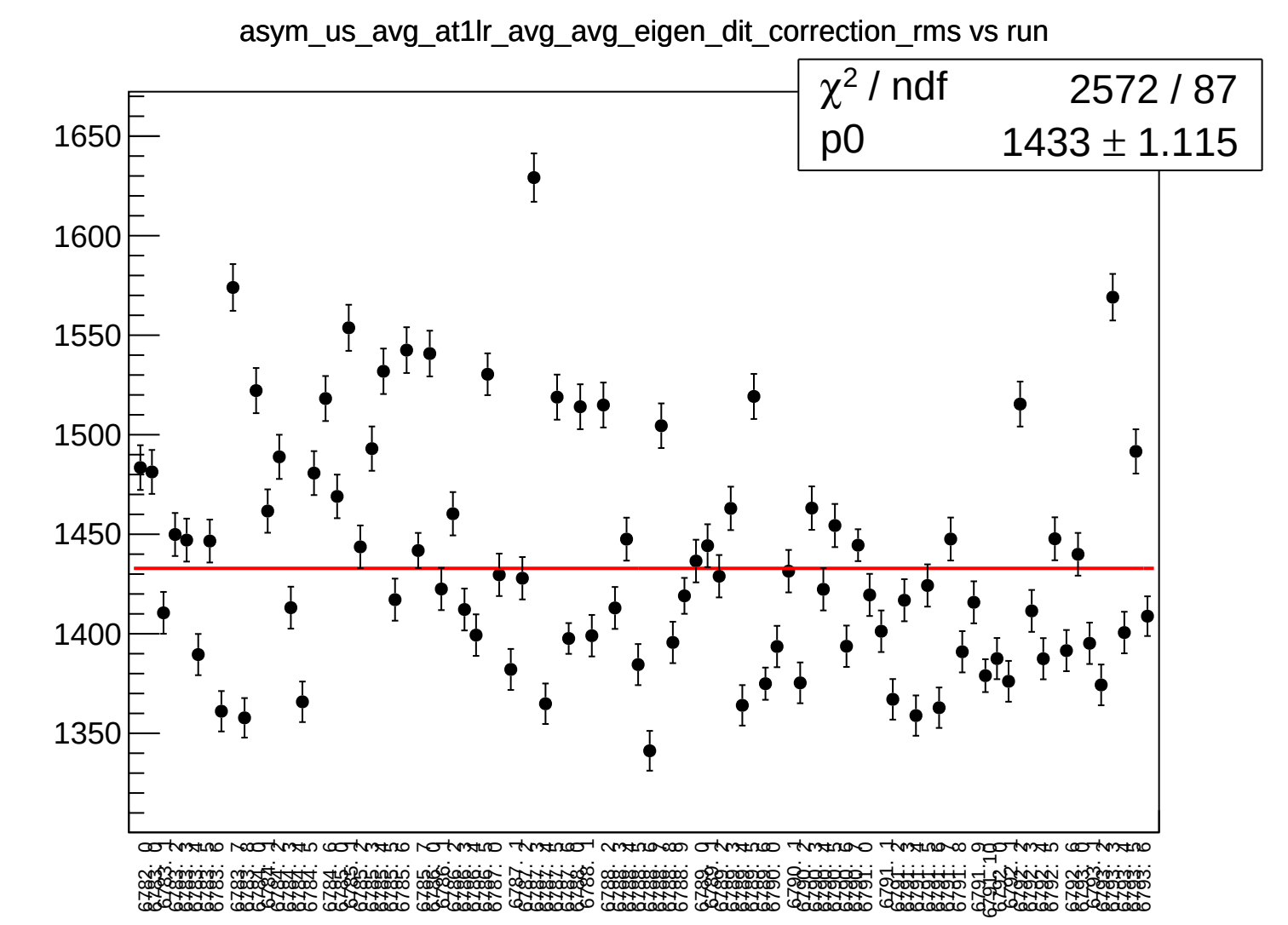

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2572 / 87
p0 1433 ± 1.115
1650
1600
1550
1500
1450
1400
1350

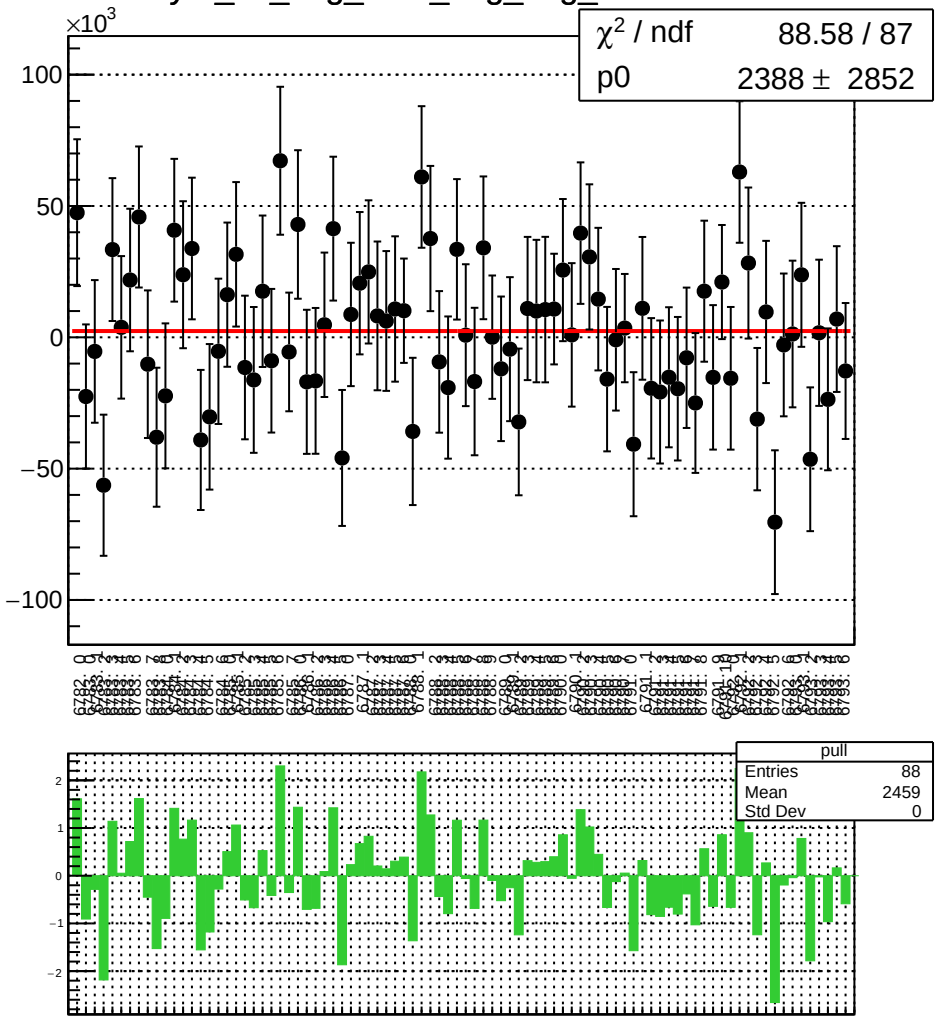

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 88.34 / 87
p0 869.9 ± 2399
pull
Entries 88
Mean 619.8
Std Dev 0

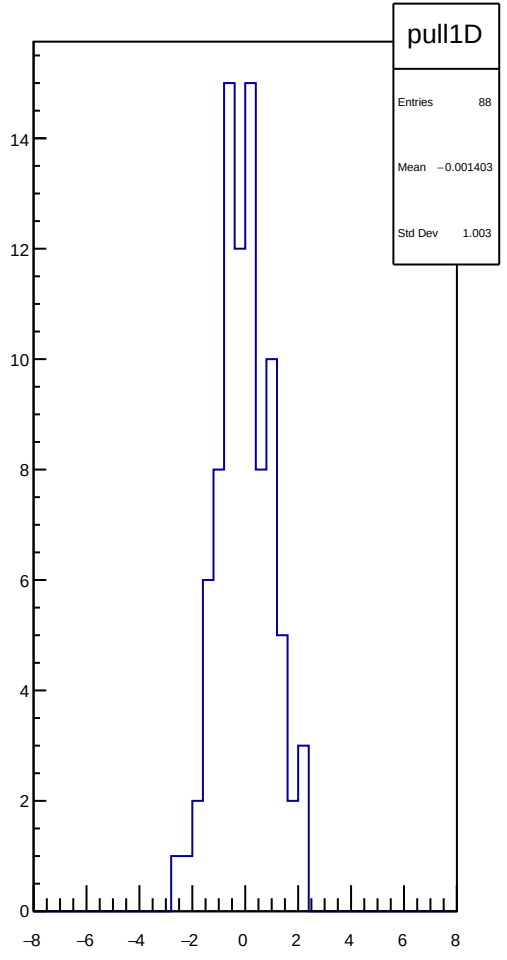

pull1D
Entries 88
Mean −0.006606
Std Dev 1.002

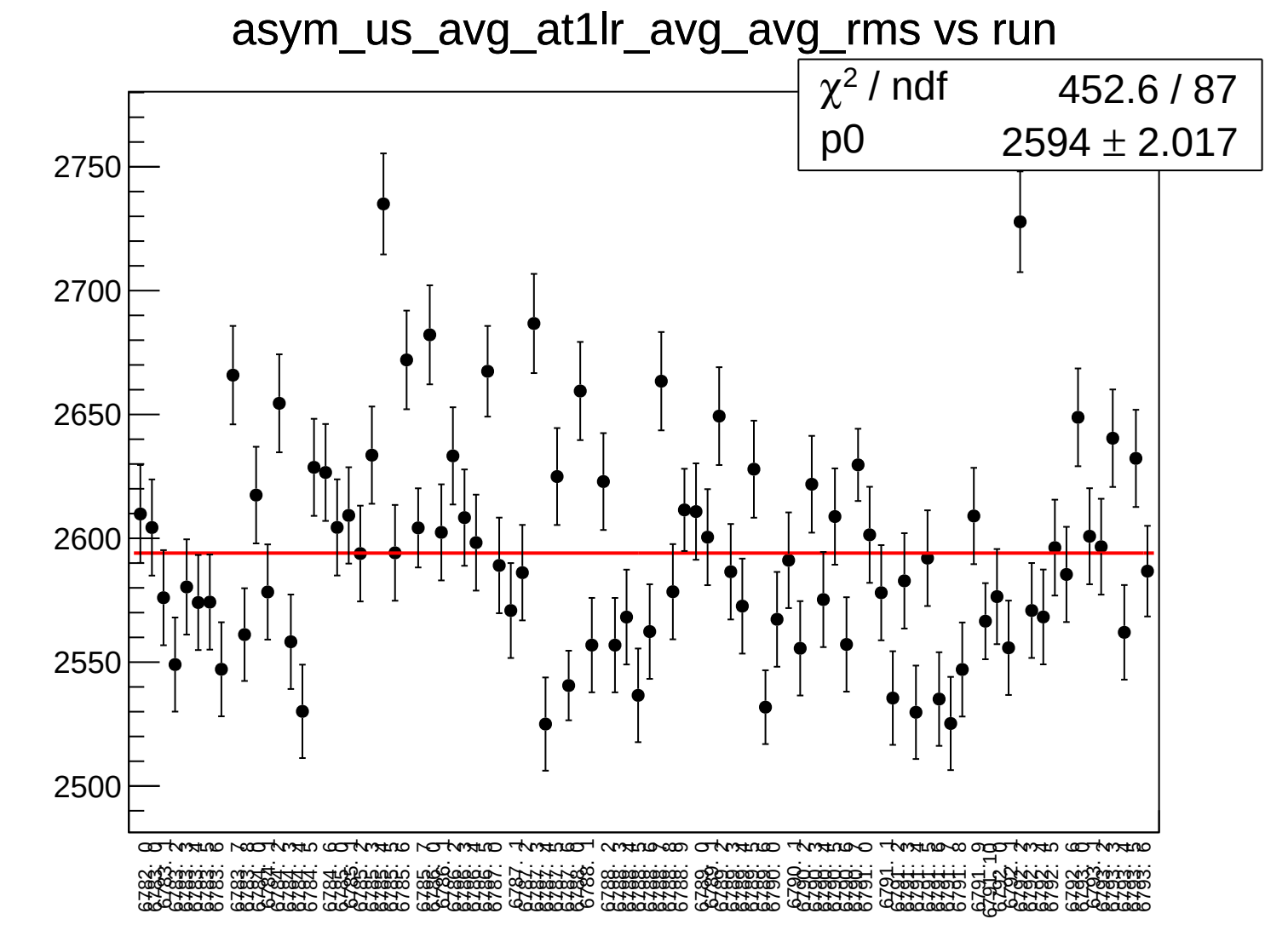

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 100.1 / 87
p0 2182 ± 1.696
2260
2240
2220
2200
2180
2160
2140
2120

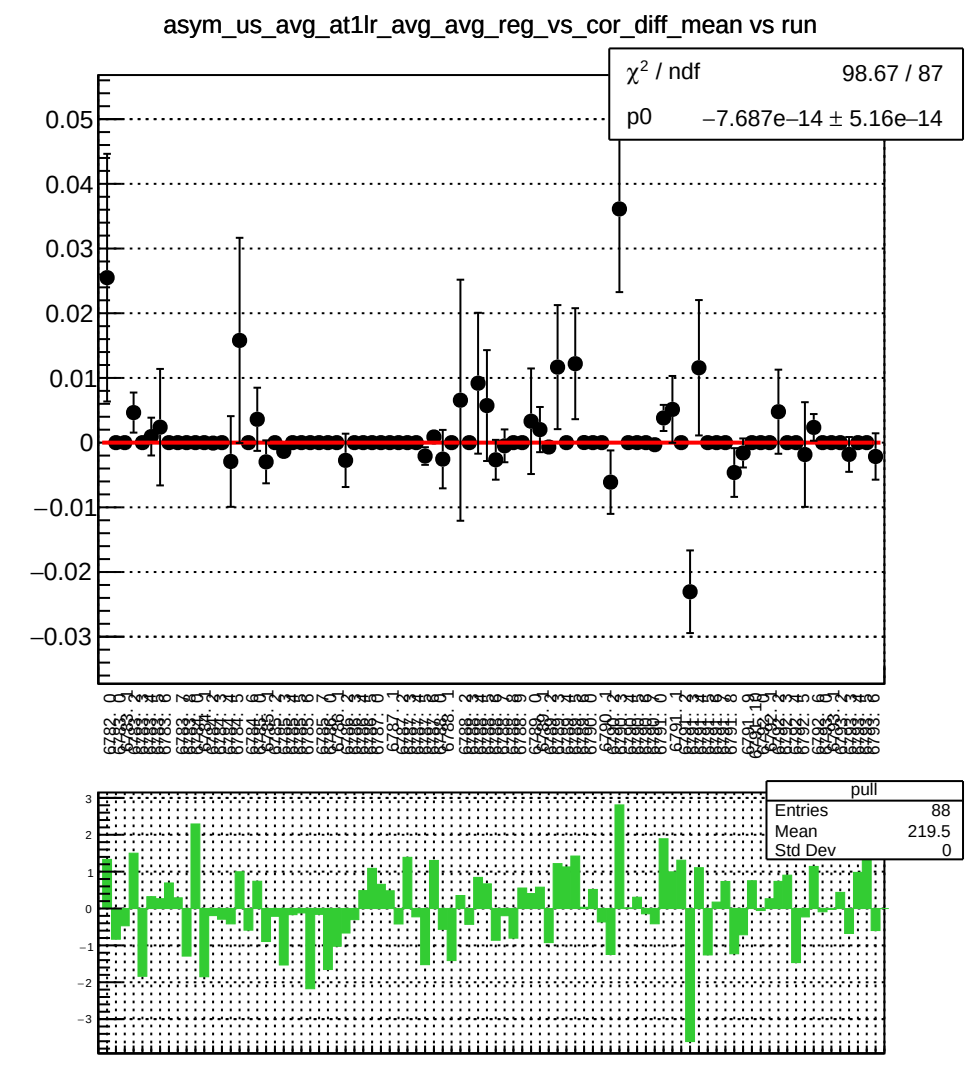

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.09 / 87
p0 −1481 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 18.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008873
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

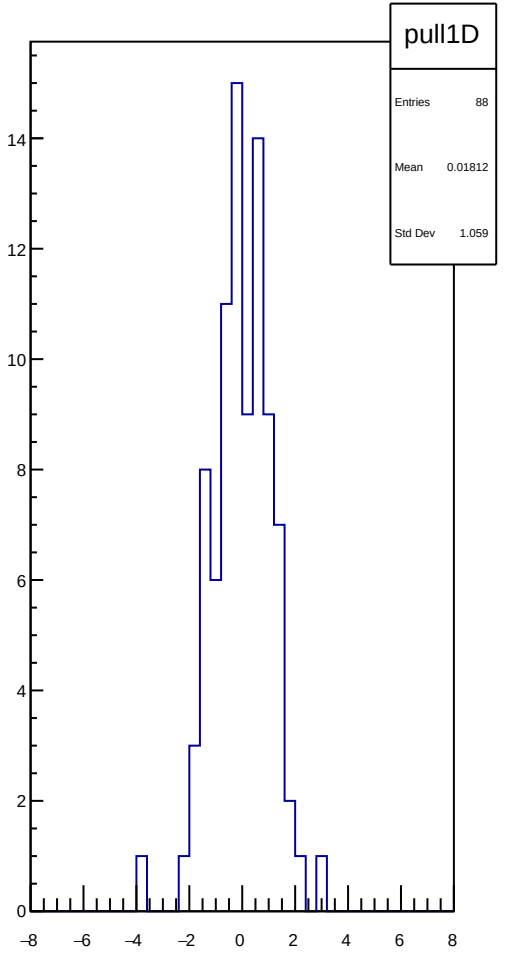

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2572 / 87
p0 1433 ± 1.115
1650
1600
1550
1500
1450
1400
1350

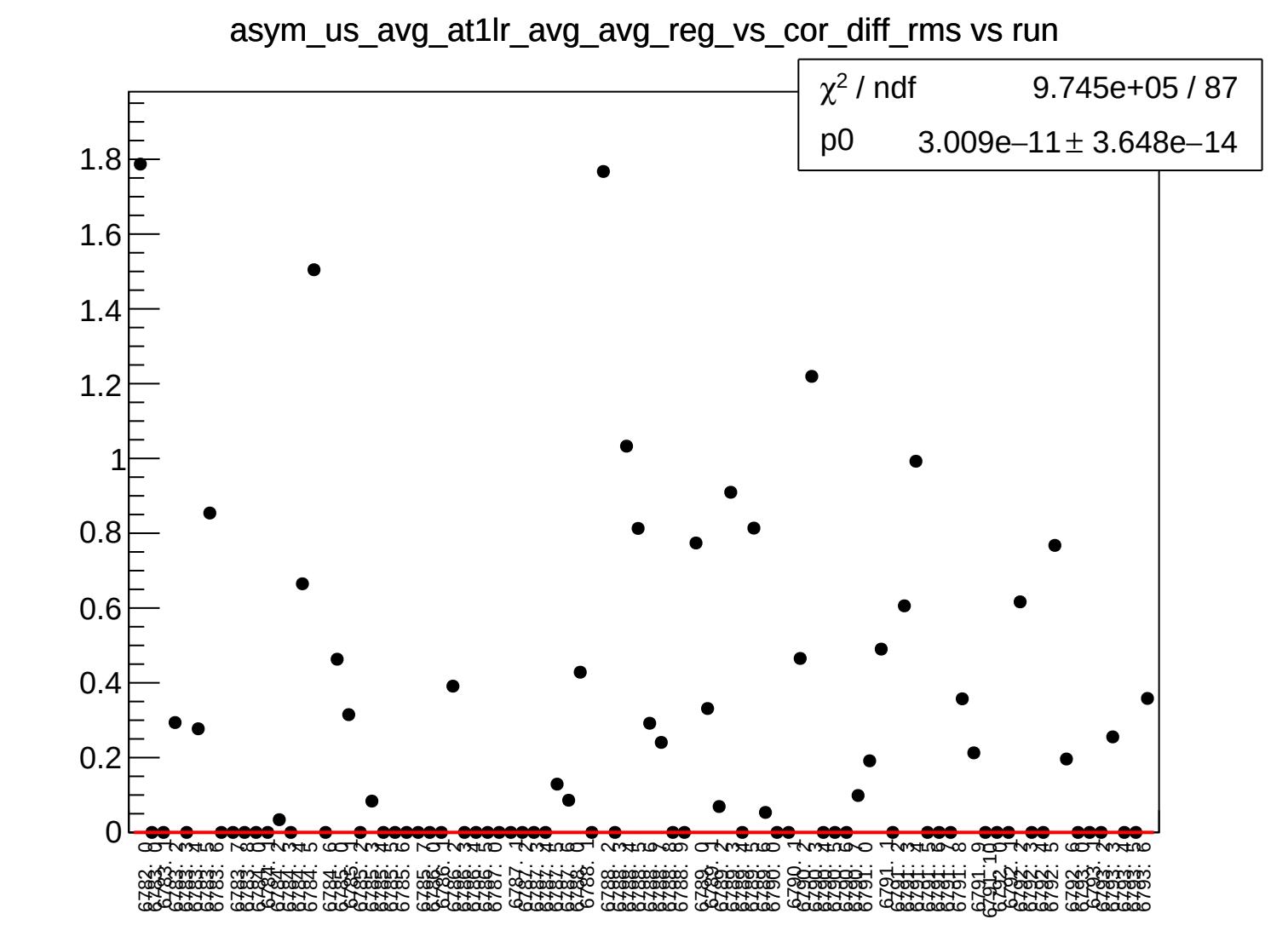

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 88.58 / 87
p0 2388 ± 2852
100
50
0
−50
−100
pull
Entries 88
Mean 2459
Std Dev 0
2
1
0
−1
−2

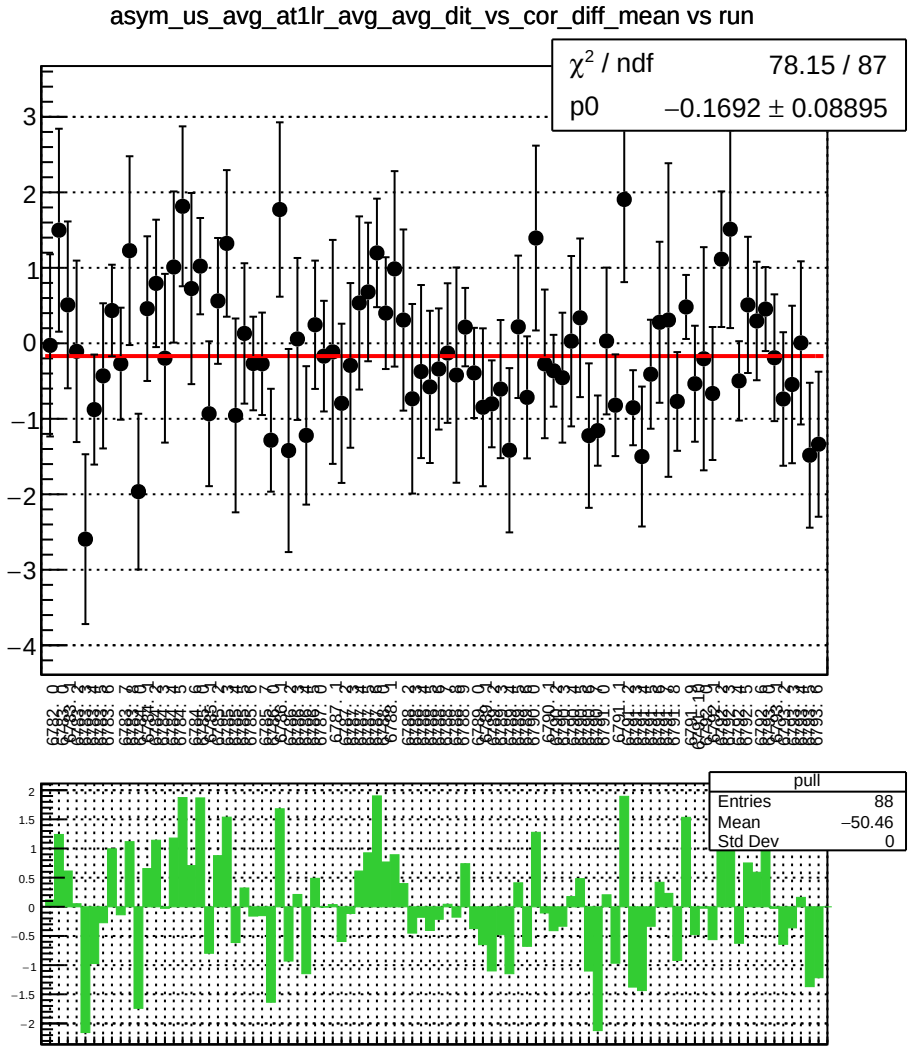

pull1D
Entries 88
Mean −0.001403
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

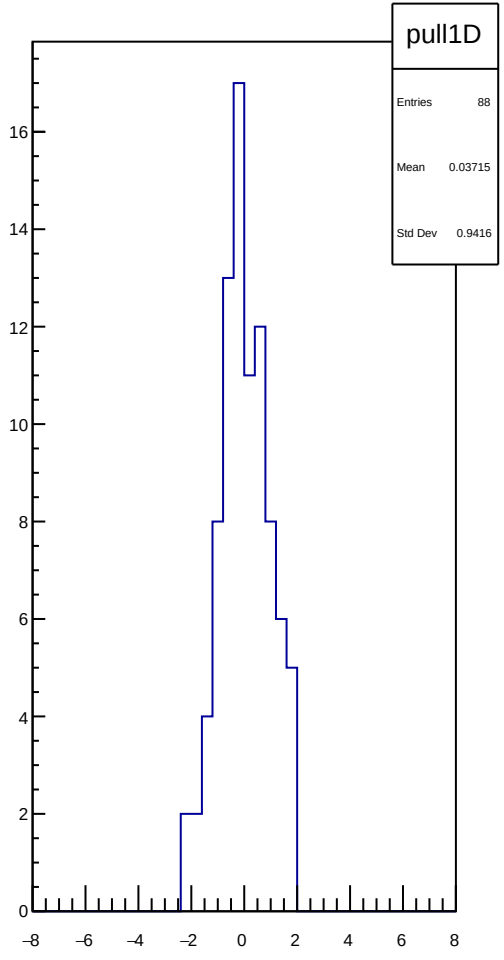

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 452.6 / 87
p0 2594 ± 2.017
2750
2700
2650
2600
2550
2500

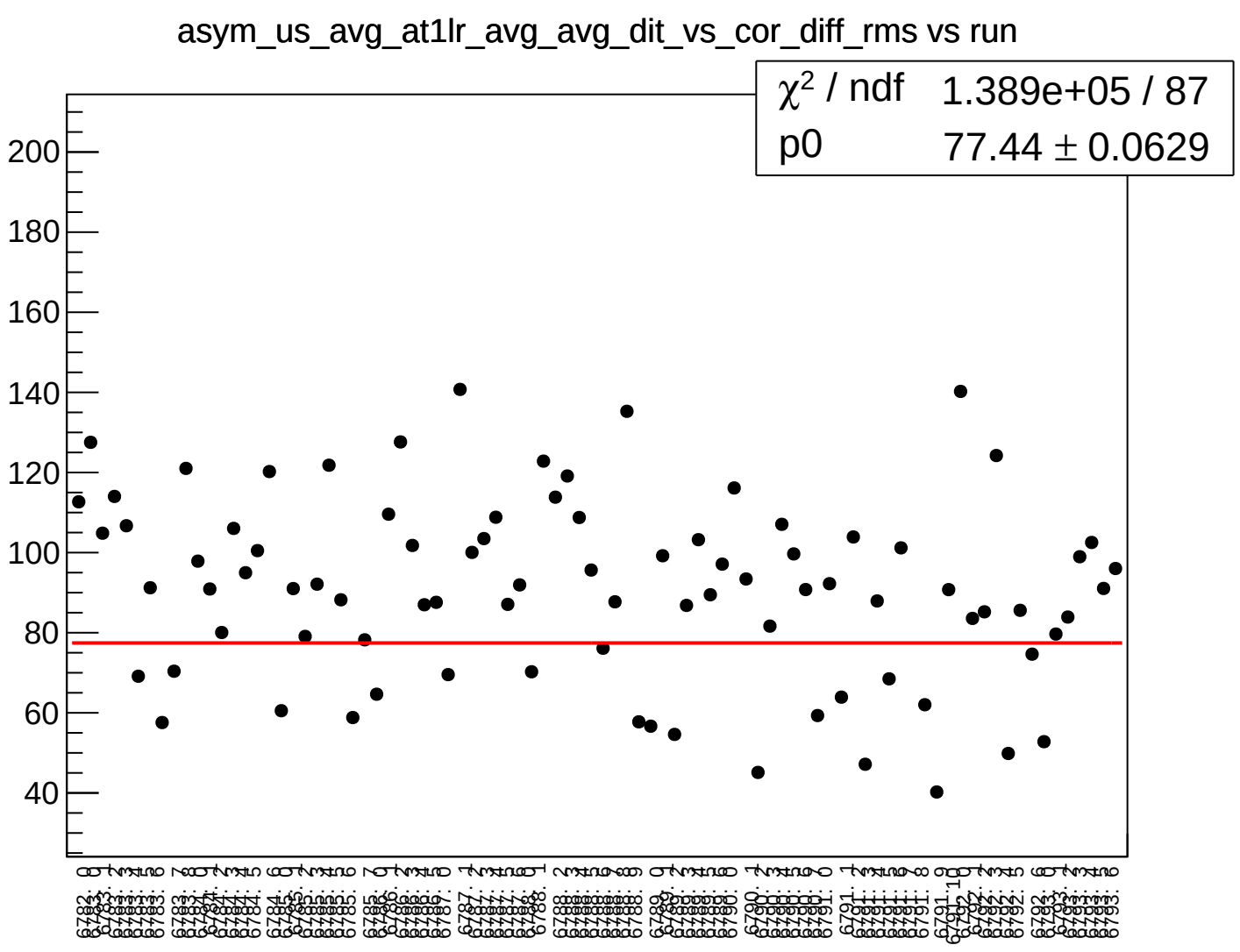

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.67 / 87
p0 −7.687e−14 ± 5.16e−14
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 219.5
Std Dev 0
3
2
1
0
−1
−2
−3

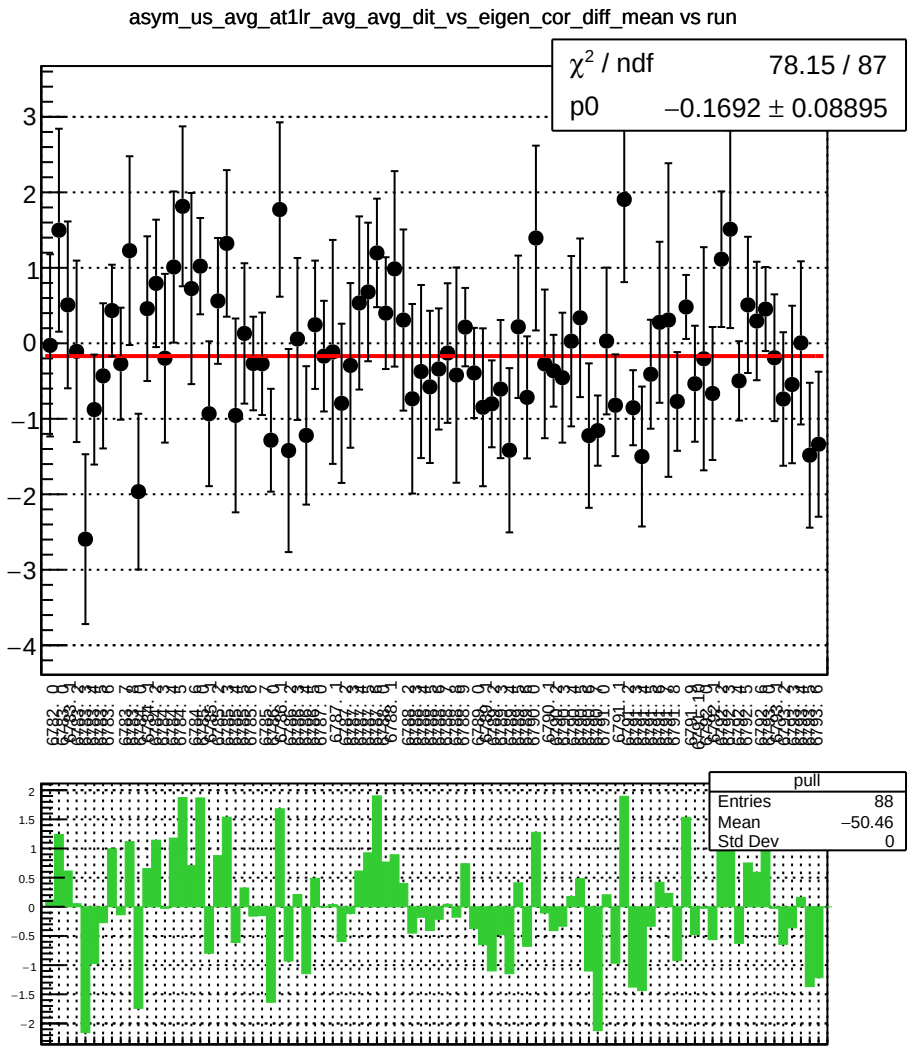

pull1D
Entries 88
Mean 0.01812
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

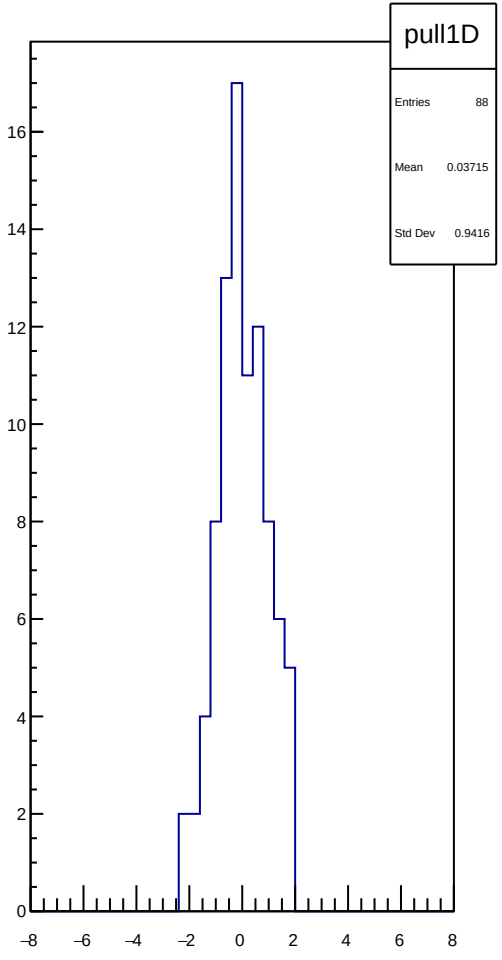

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.745e+05 / 87
p0 3.009e−11 ± 3.648e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

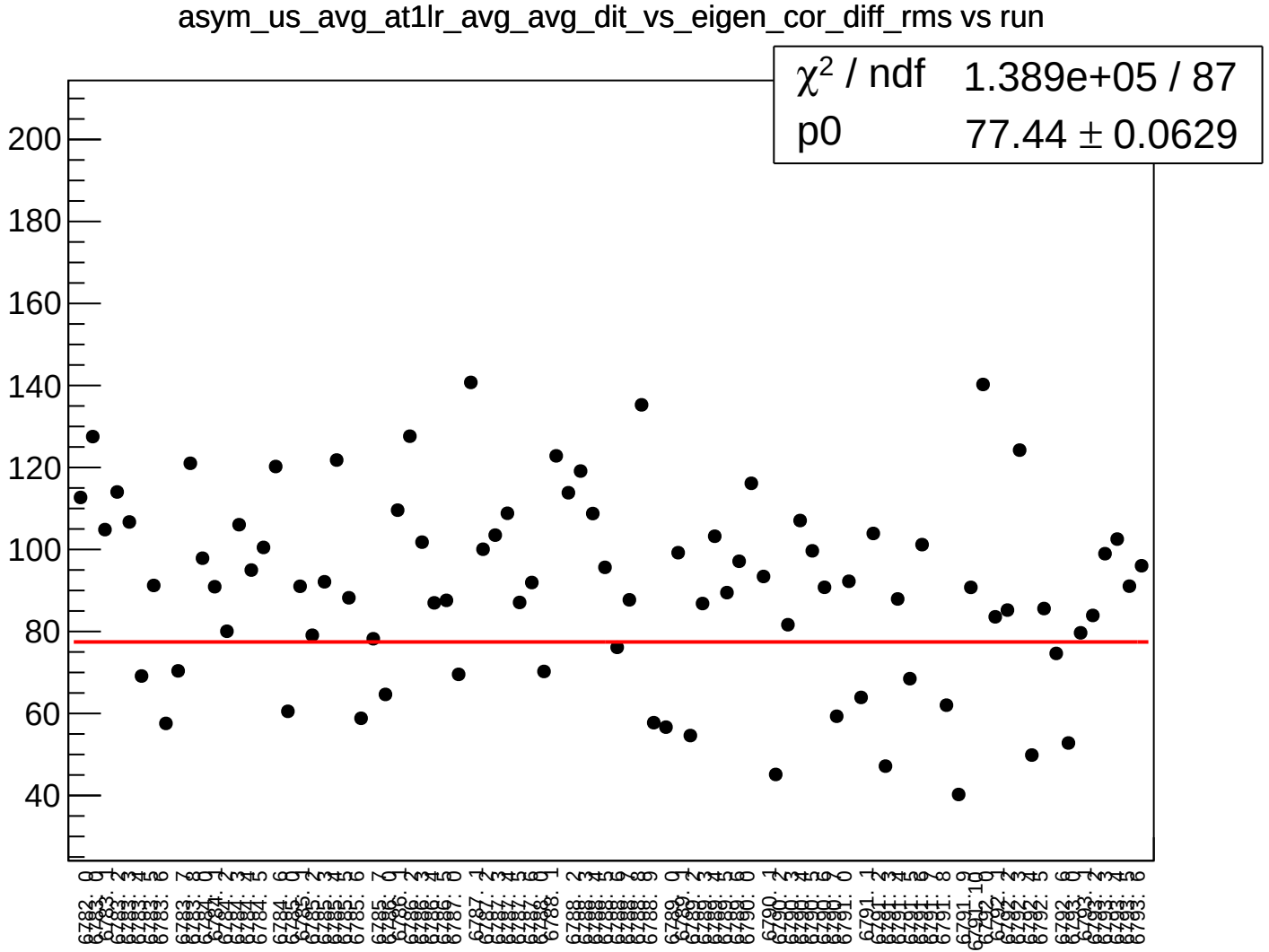

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.15 / 87
p0 −0.1692 ± 0.08895
pull
Entries 88
Mean −50.46
Std Dev 0

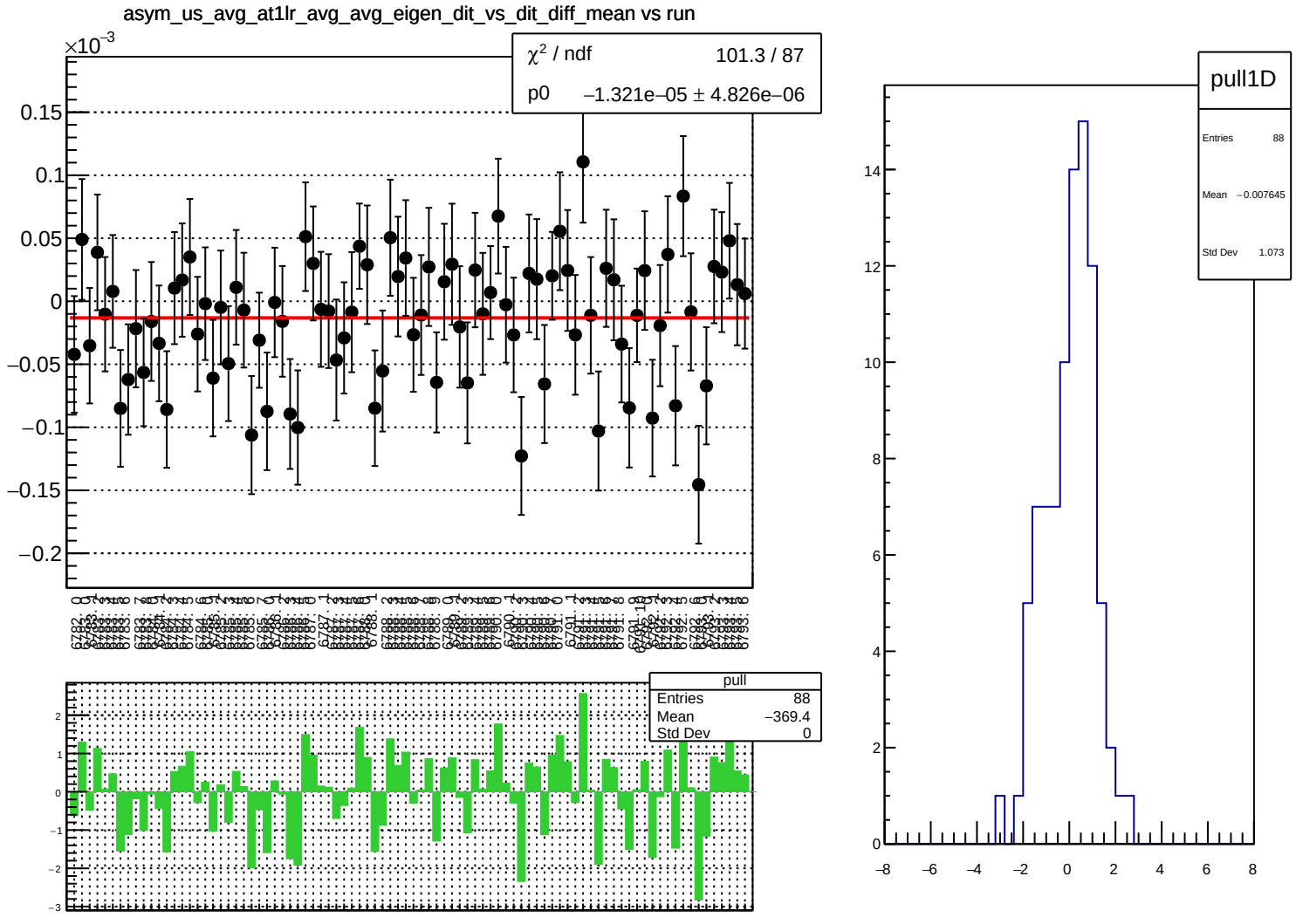

pull1D
Entries 88
Mean 0.03715
Std Dev 0.9416

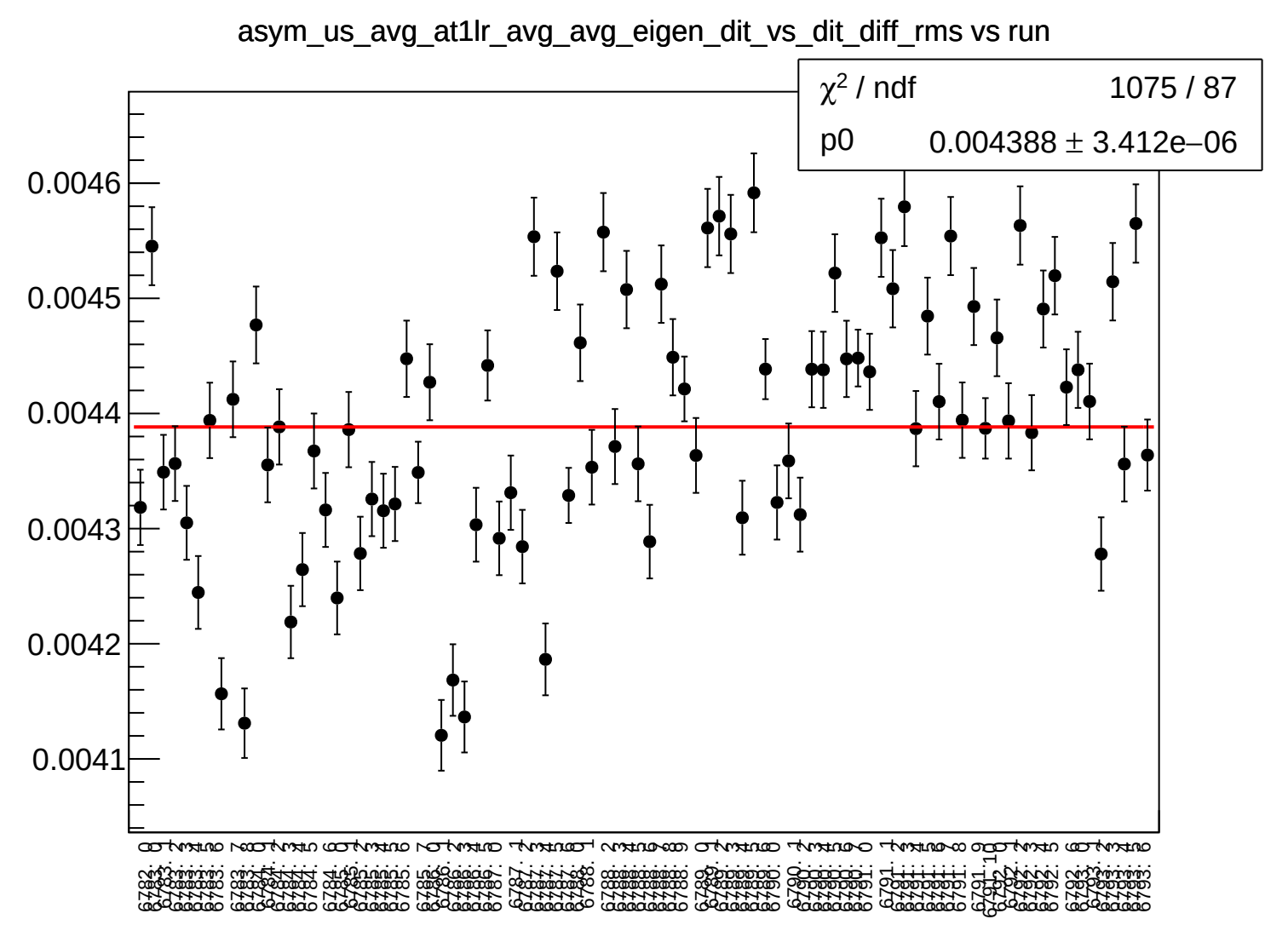

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.389e+05 / 87
p0 77.44 ± 0.0629
200
180
160
140
120
100
80
60
40

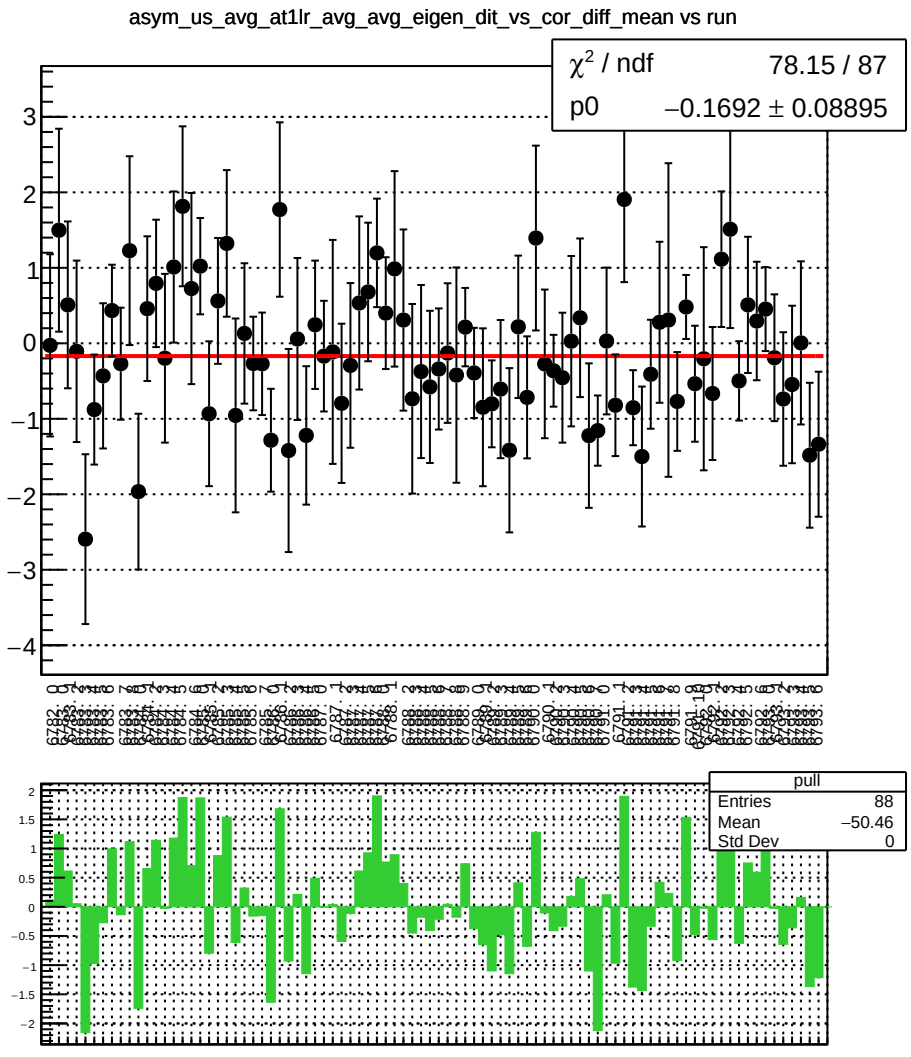

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.15 / 87
p0 −0.1692 ± 0.08895
pull
Entries 88
Mean −50.46
Std Dev 0

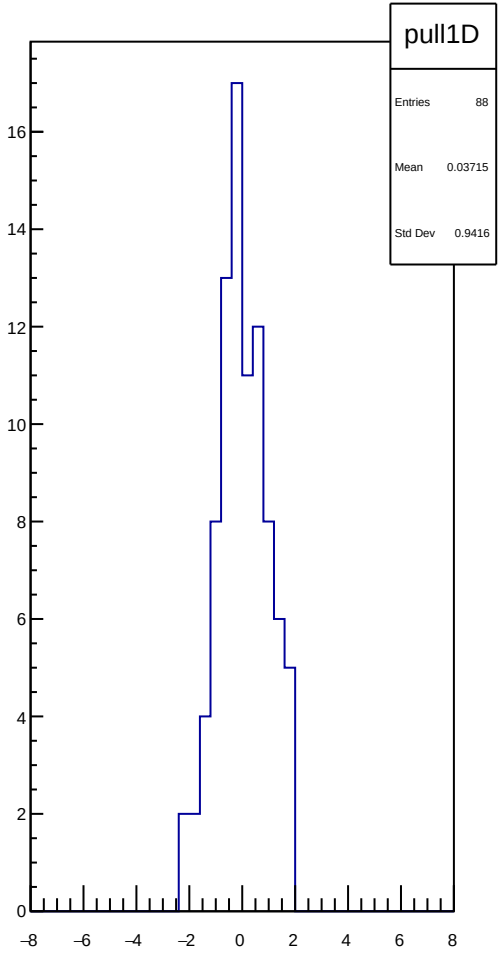

pull1D
Entries 88
Mean 0.03715
Std Dev 0.9416

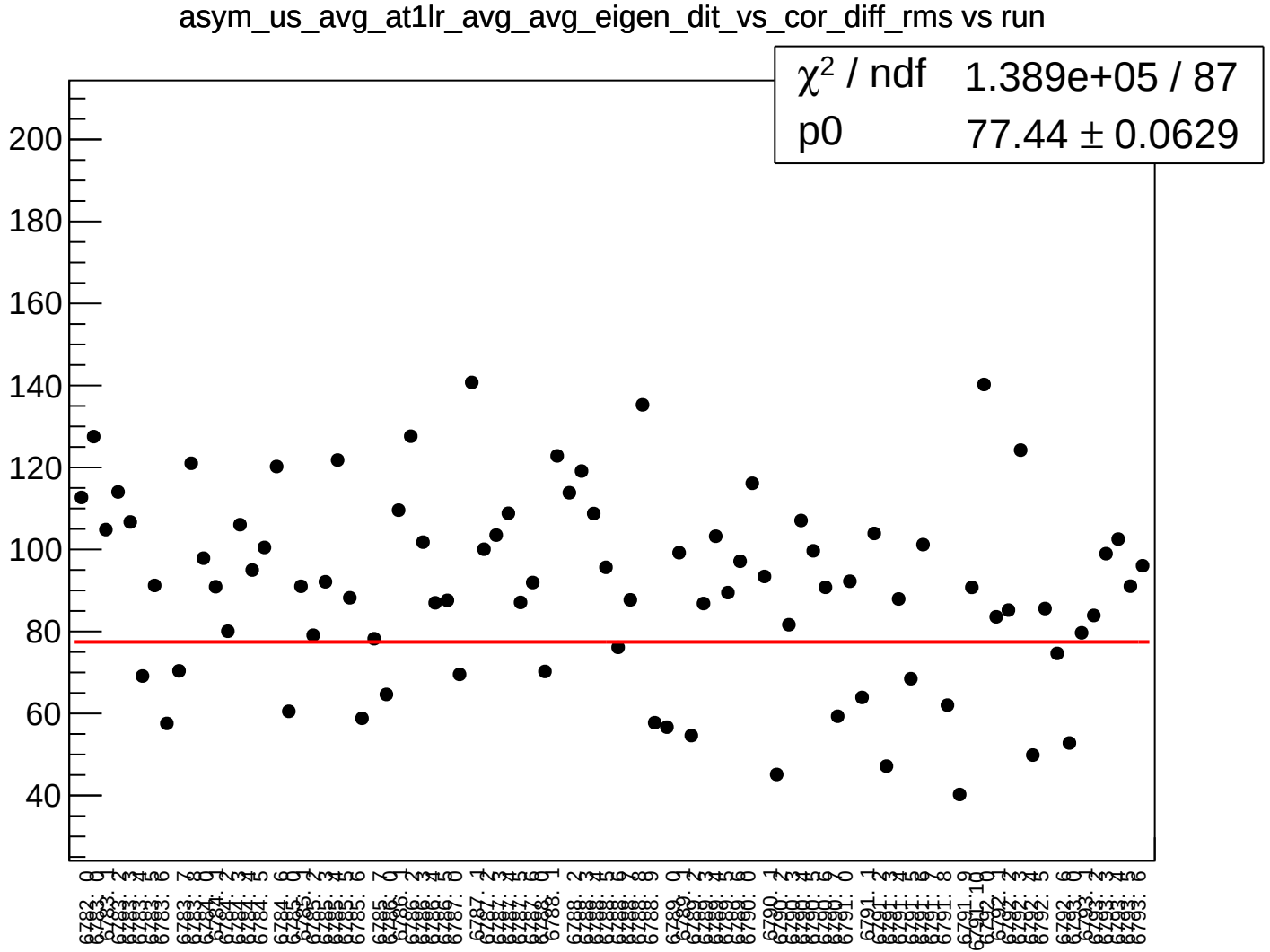

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.389e+05 / 87
p0 77.44 ± 0.0629
200
180
160
140
120
100
80
60
40

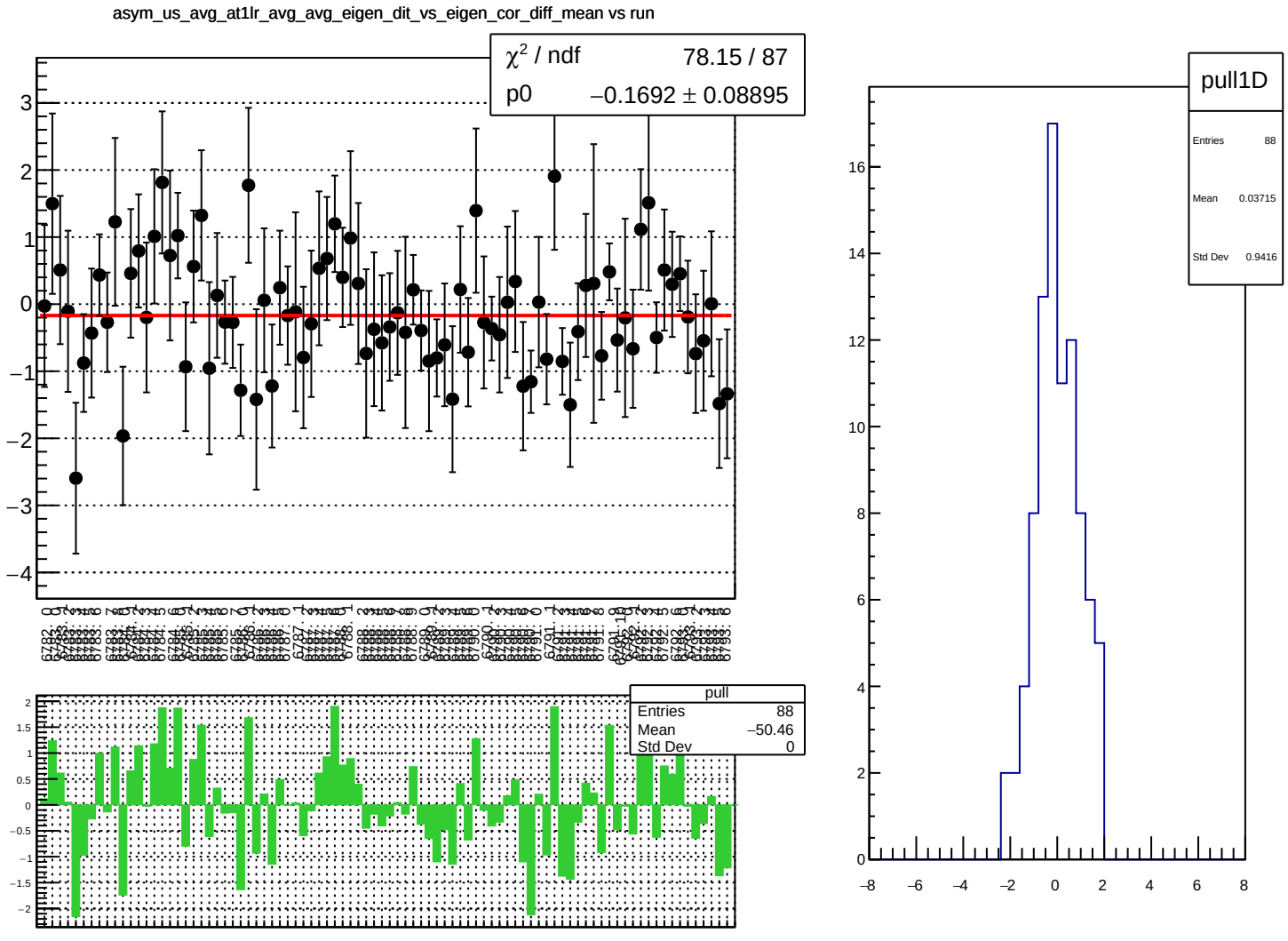

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.3 / 87
p0 −1.321e−05 ± 4.826e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean −369.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.007645
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

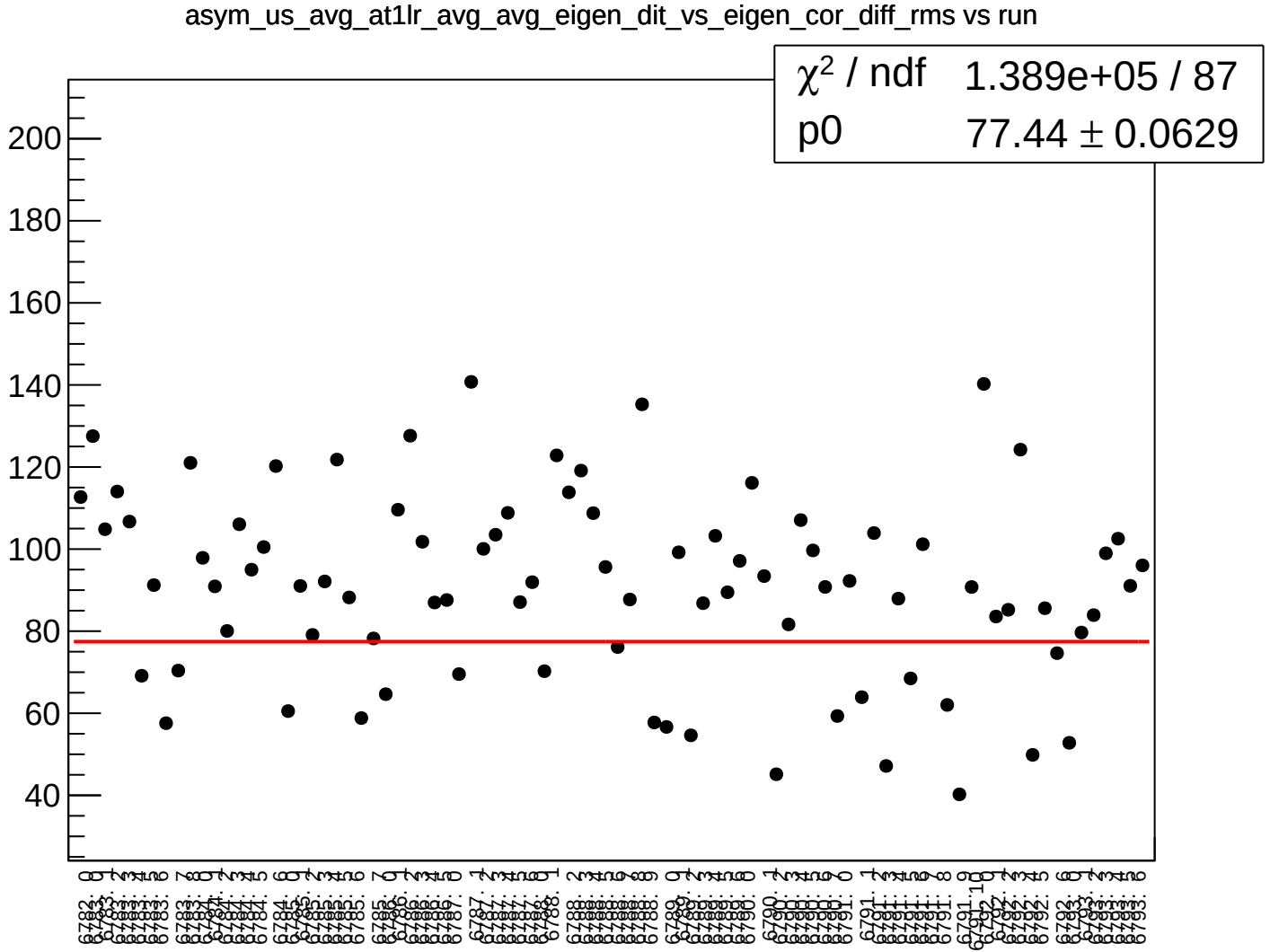

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1075 / 87
p0 0.004388 ± 3.412e−06
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041

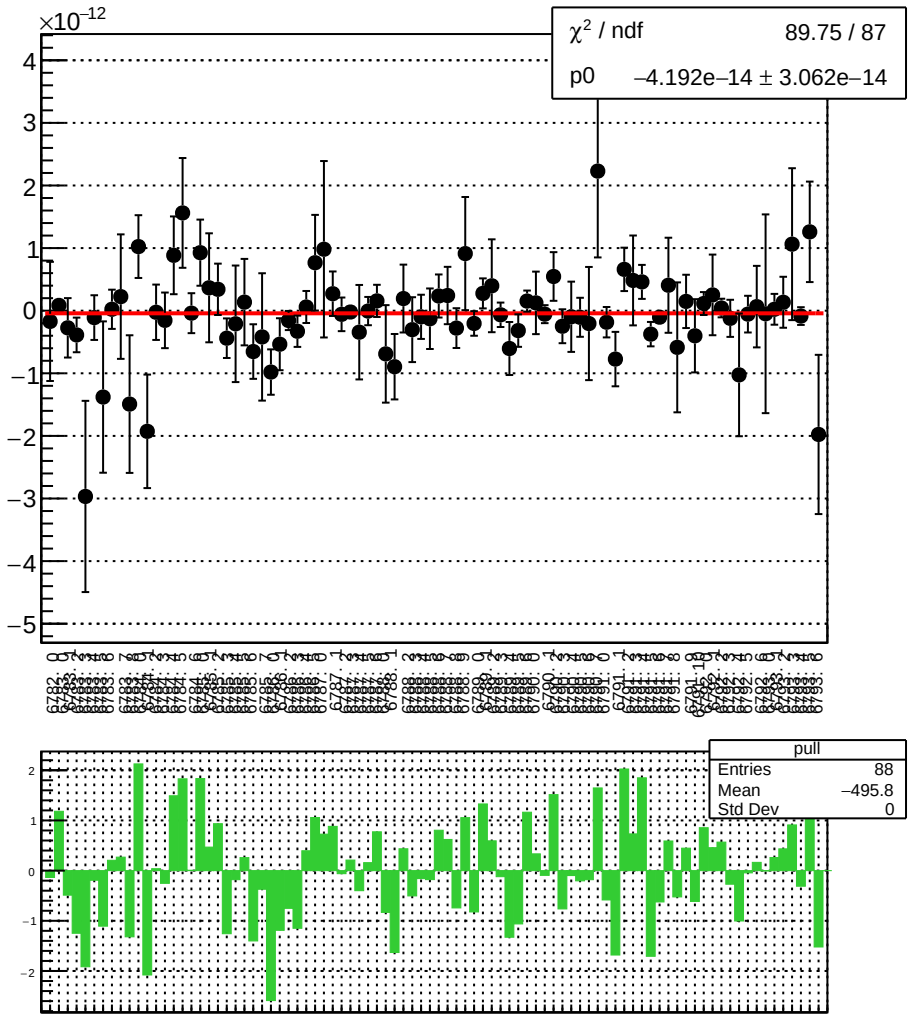

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.15 / 87
p0 −0.1692 ± 0.08895
pull
Entries 88
Mean −50.46
Std Dev 0

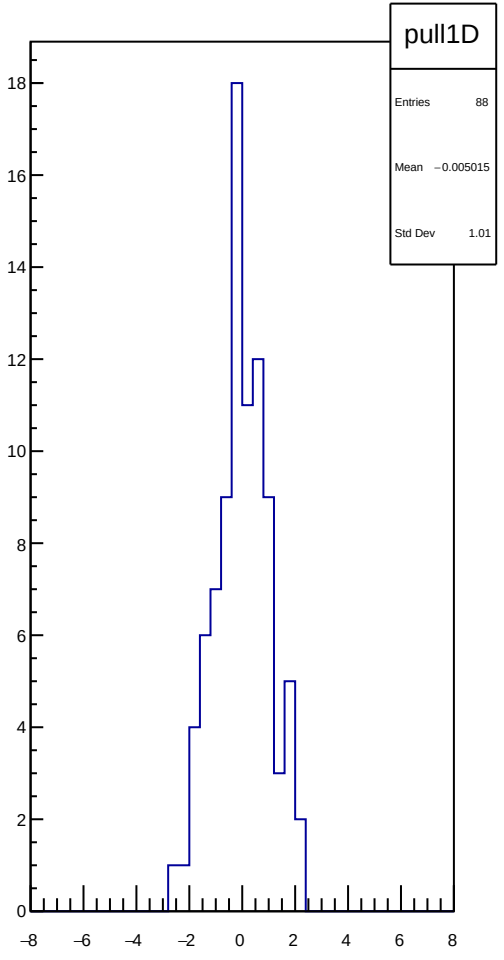

pull1D
Entries 88
Mean 0.03715
Std Dev 0.9416

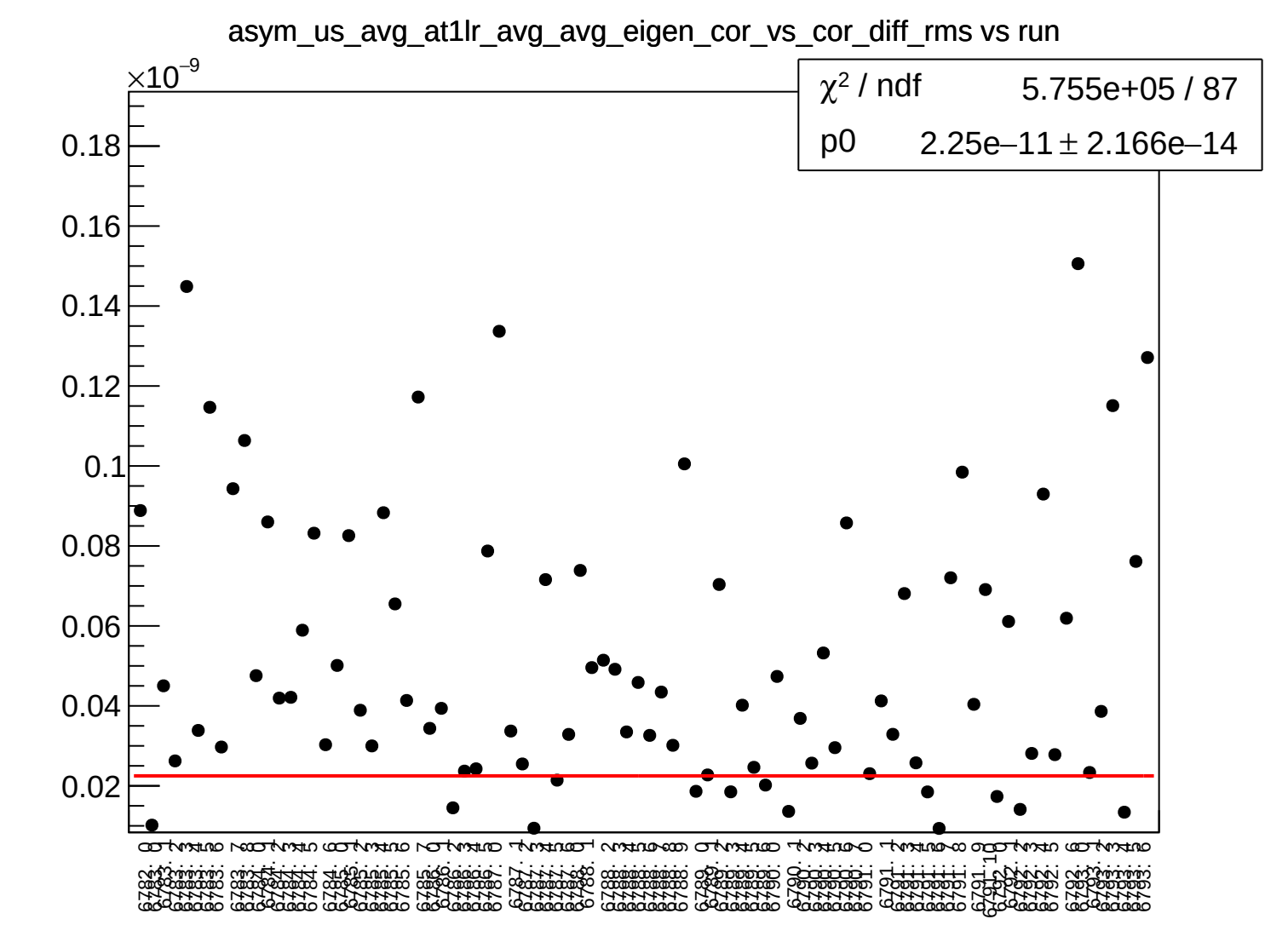

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.389e+05 / 87
p0 77.44 ± 0.0629
200
180
160
140
120
100
80
60
40

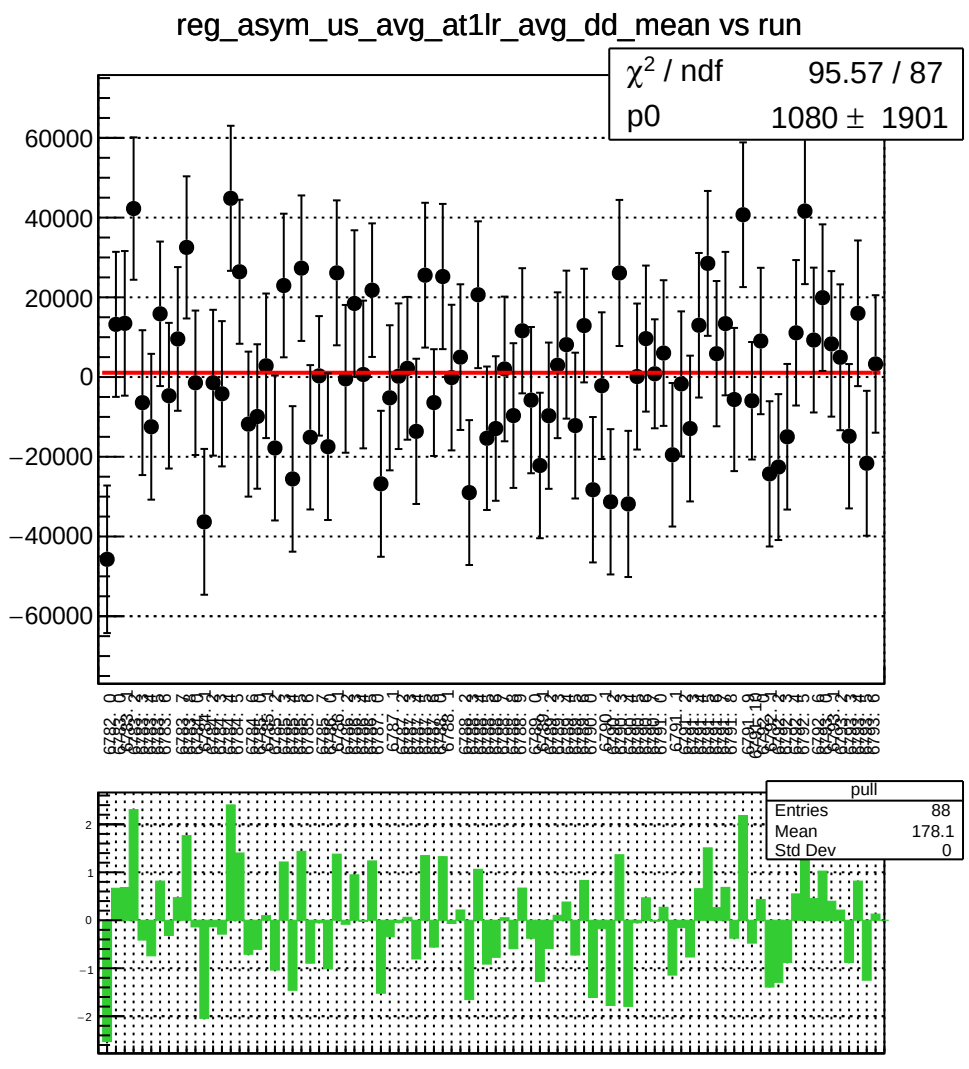

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.15 / 87
p0 −0.1692 ± 0.08895
pull
Entries 88
Mean −50.46
Std Dev 0
pull1D
Entries 88
Mean 0.03715
Std Dev 0.9416

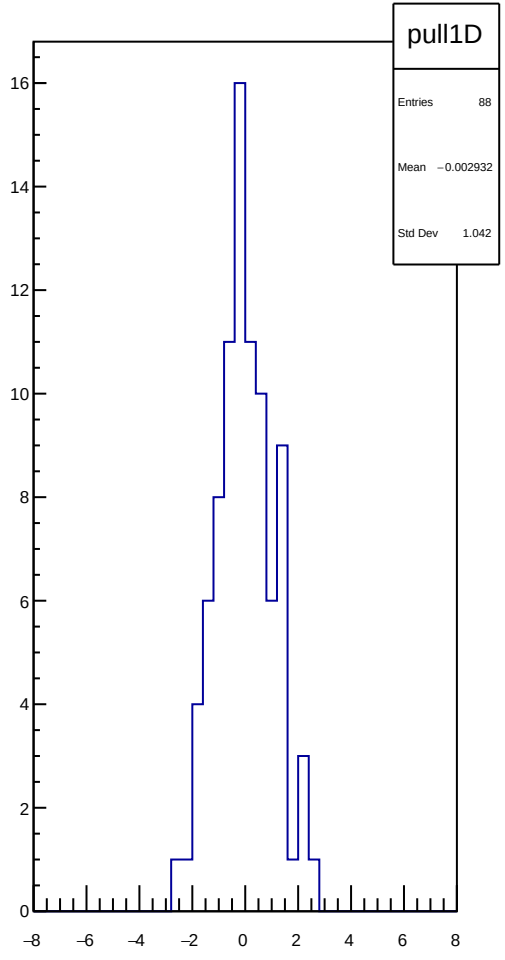

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.389e+05 / 87
p0 77.44 ± 0.0629
200
180
160
140
120
100
80
60
40

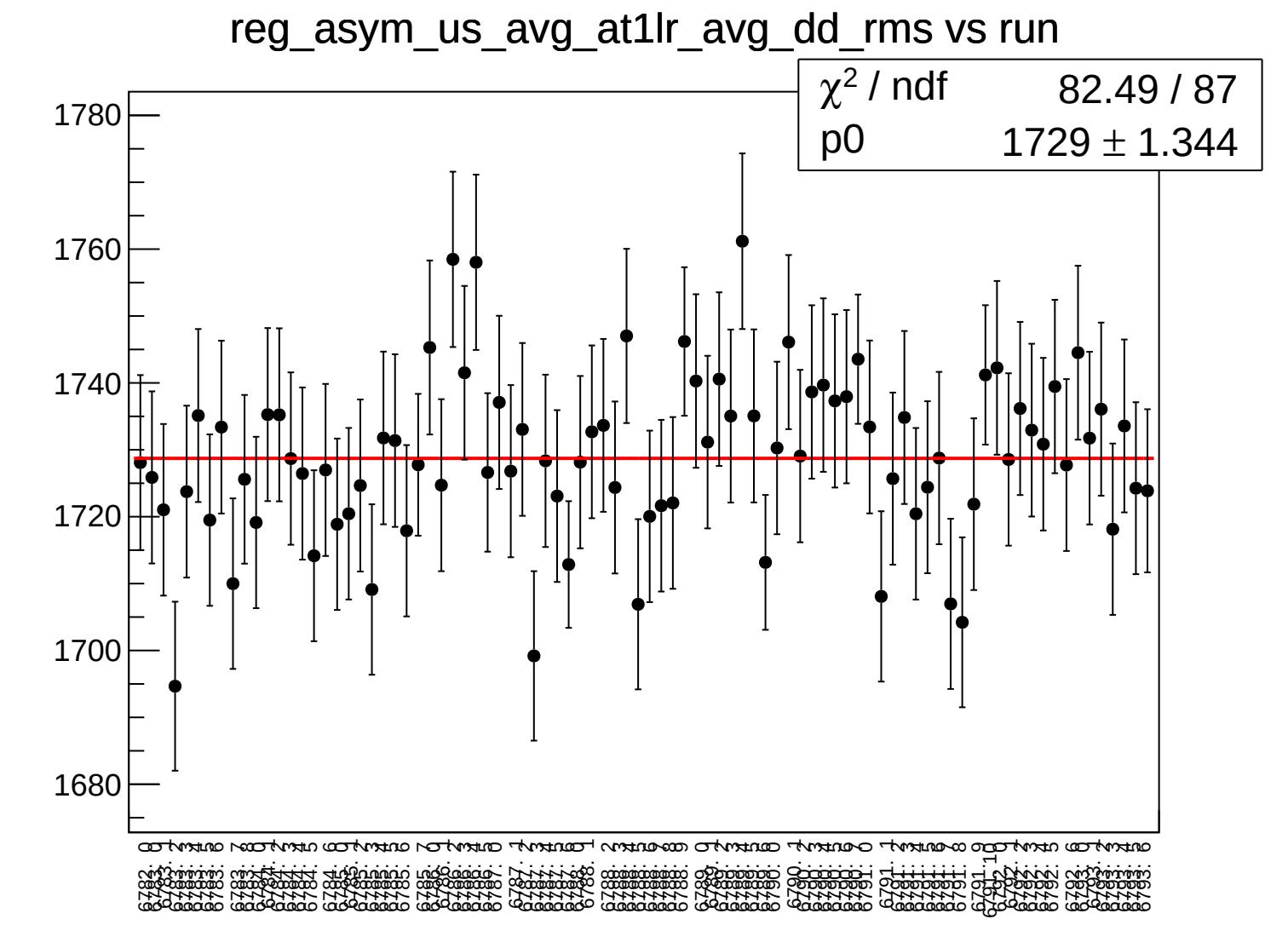

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.75 / 87
p0 −4.192e−14 ± 3.062e−14
pull
Entries 88
Mean −495.8
Std Dev 0

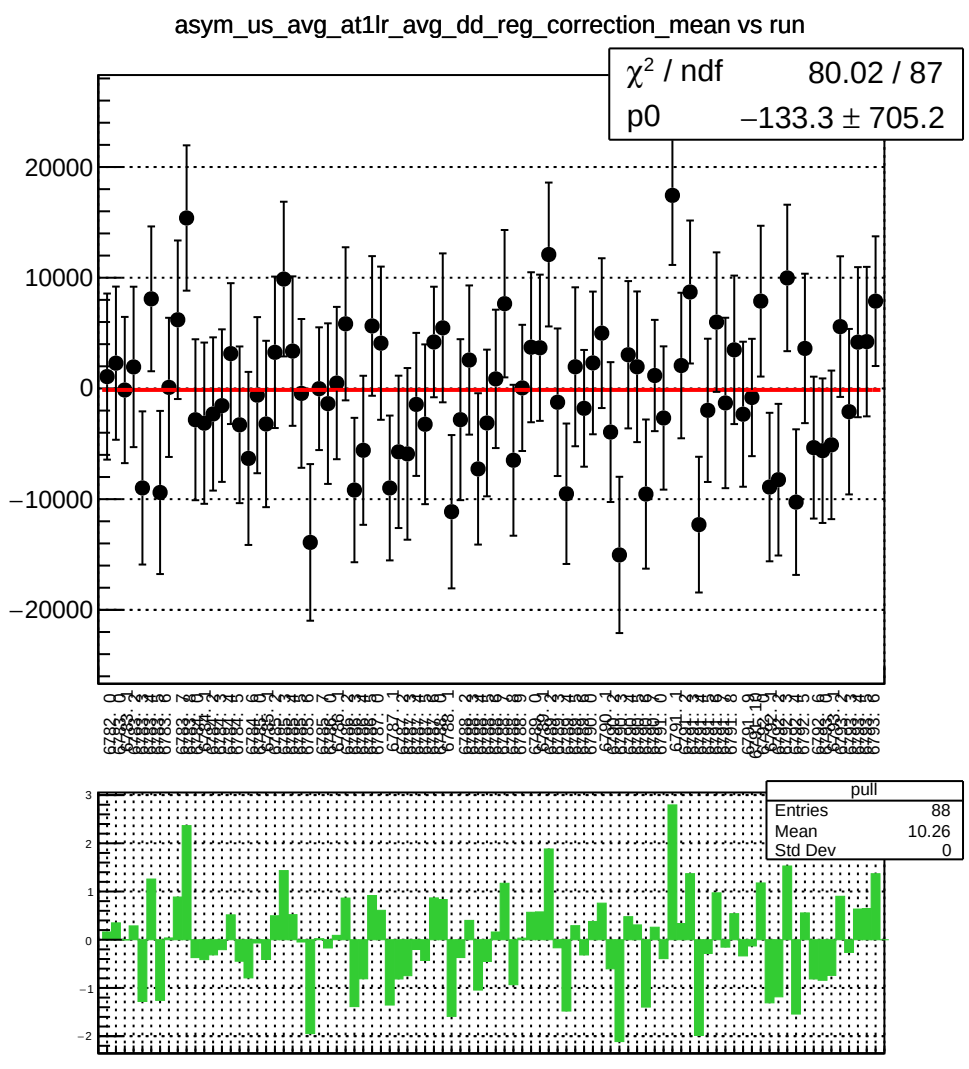

pull1D
Entries 88
Mean −0.005015
Std Dev 1.01

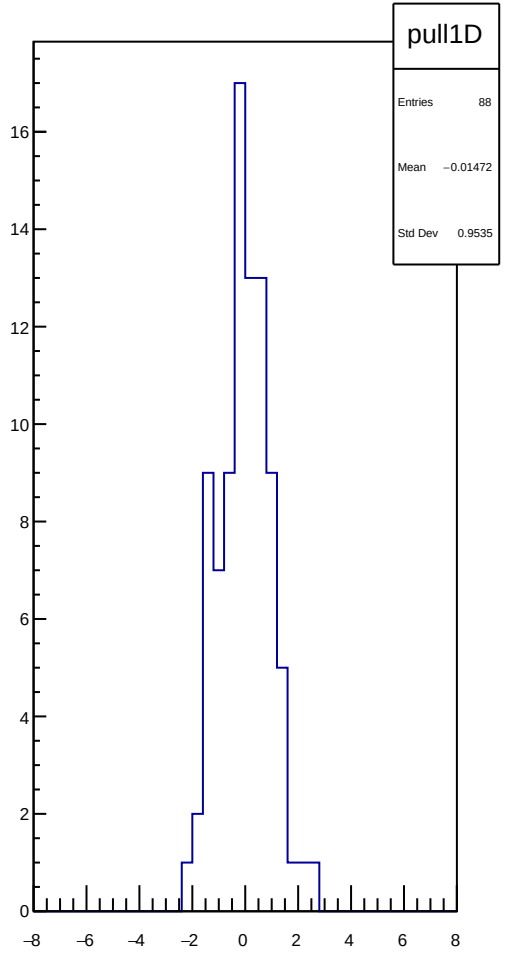

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.755e+05 / 87
p0 2.25e−11 ± 2.166e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

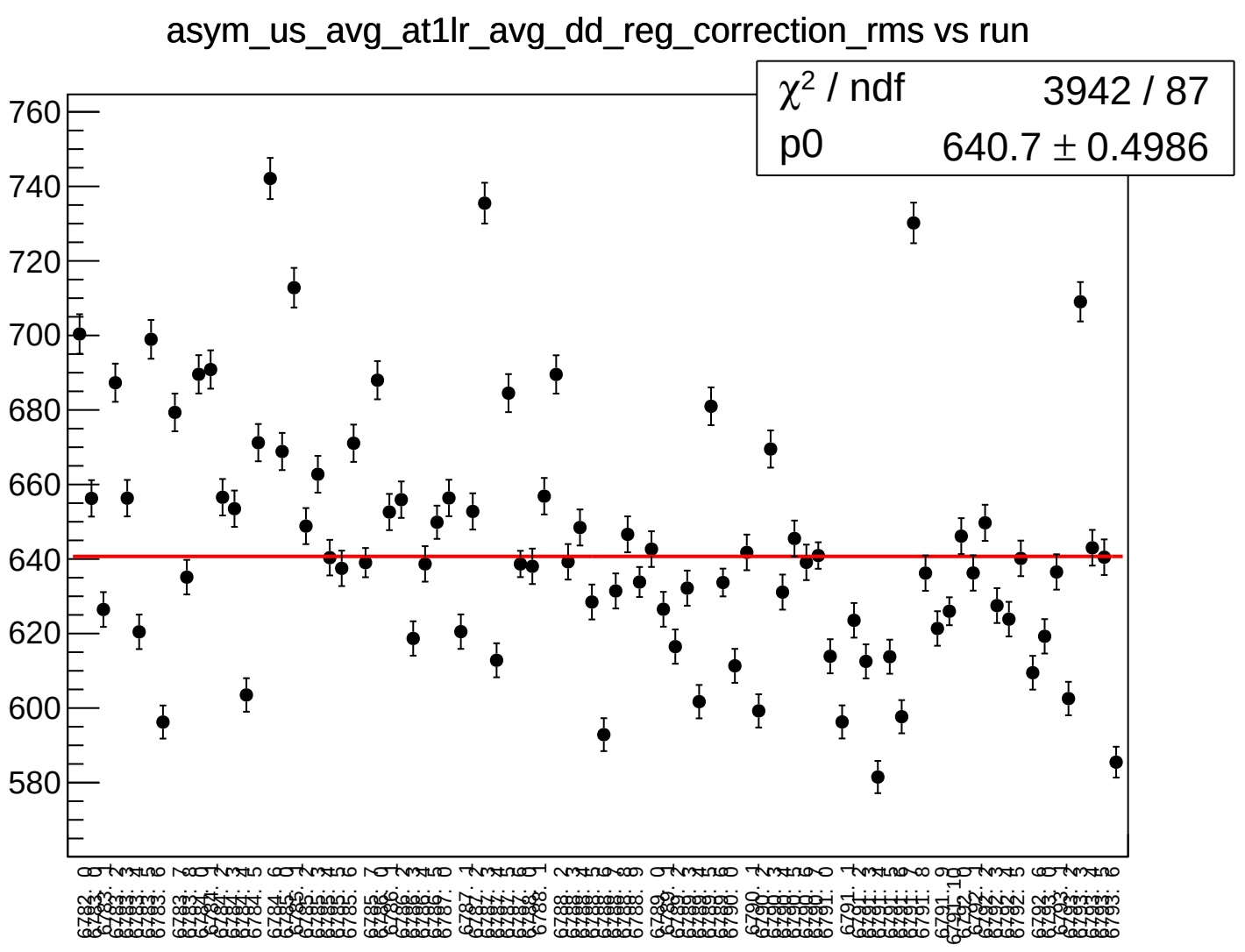

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.57 / 87
p0 1080 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 178.1
Std Dev 0
2
1
0
−1
−2

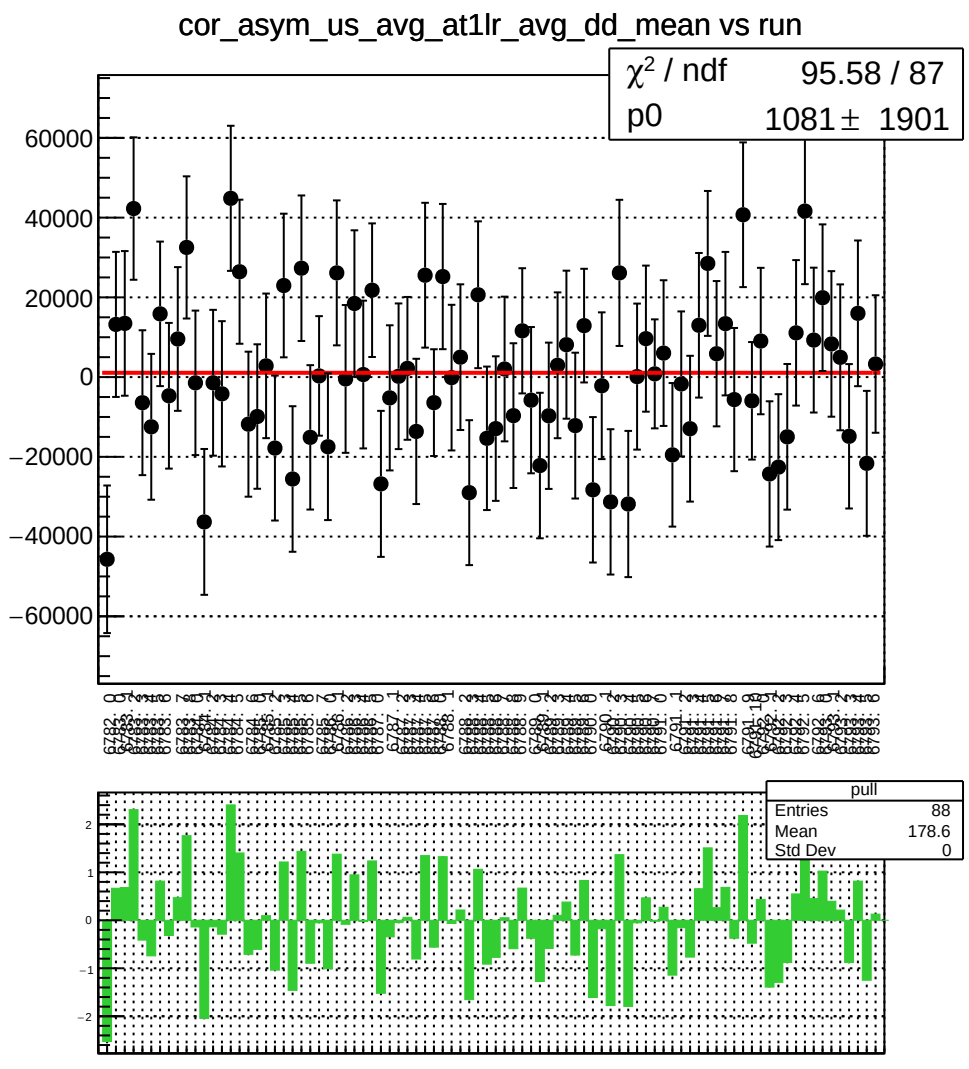

pull1D
Entries 88
Mean −0.002932
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

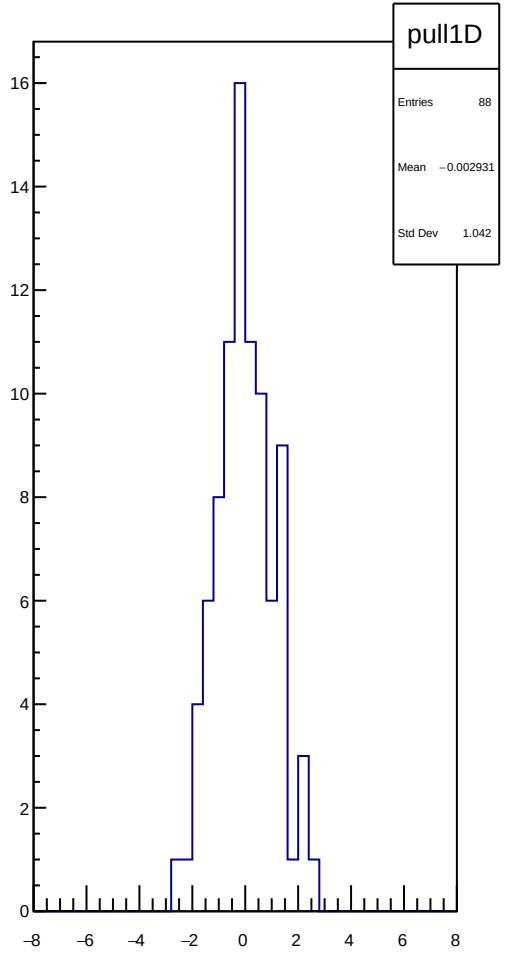

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 82.49 / 87
p0 1729 ± 1.344
1780
1760
1740
1720
1700
1680

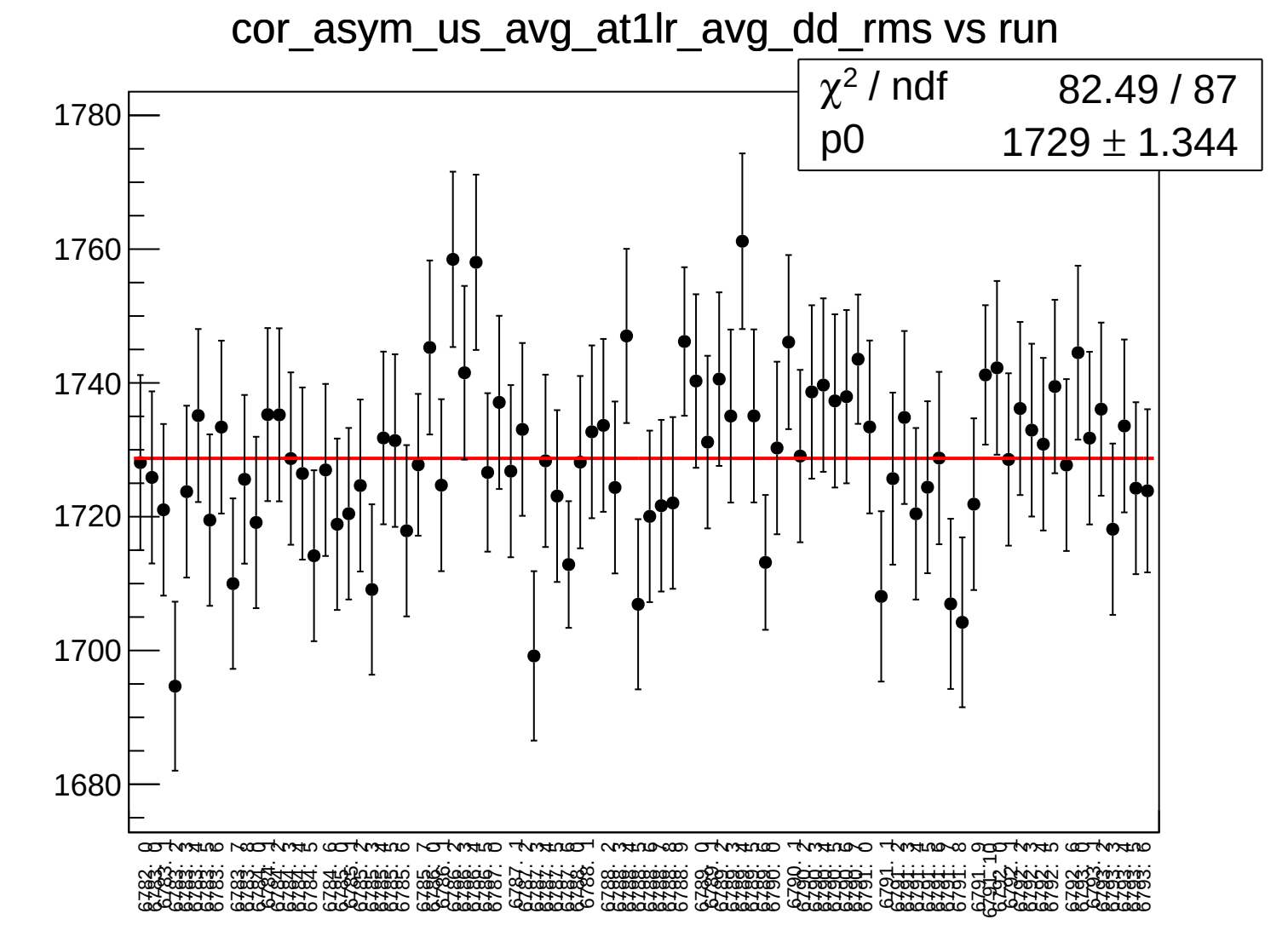

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 80.02 / 87
p0 −133.3 ± 705.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 10.26
Std Dev 0
3
2
1
0
−1
−2

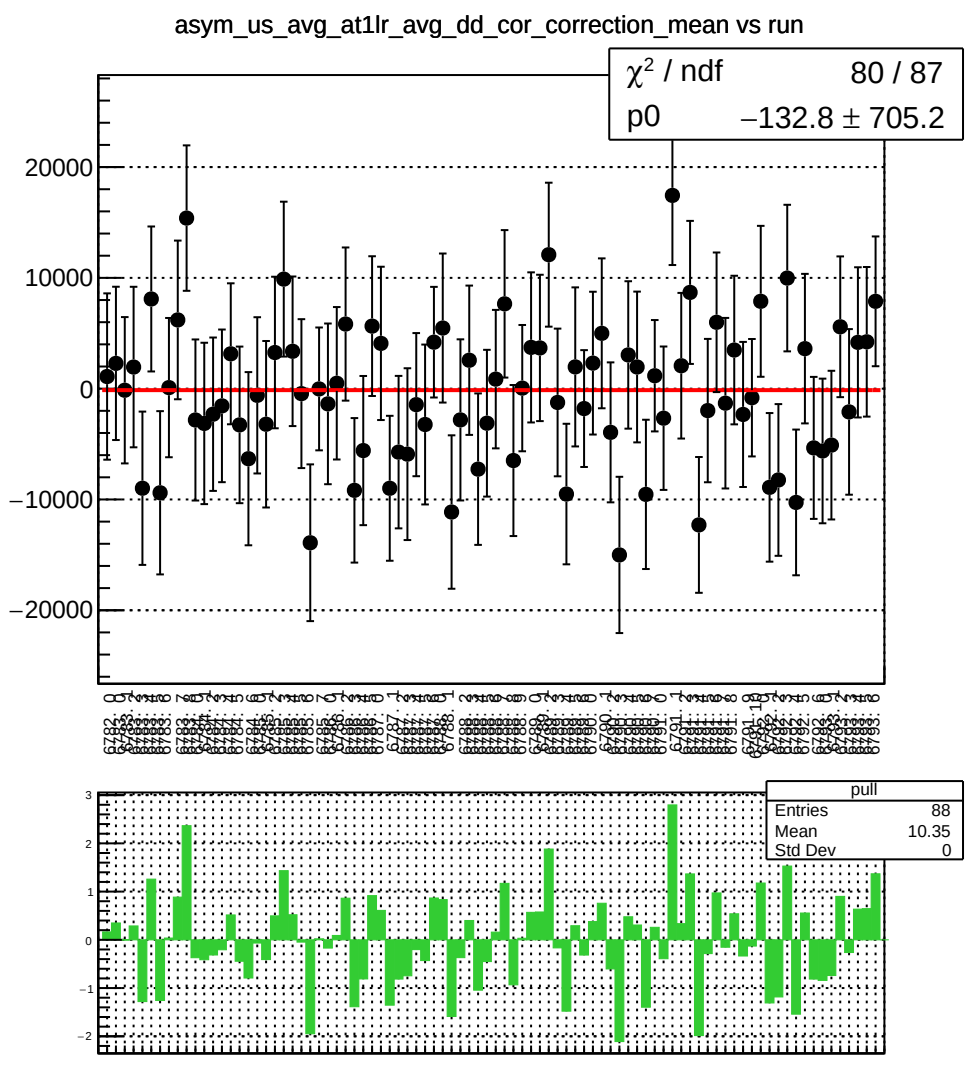

pull1D
Entries 88
Mean −0.01472
Std Dev 0.9535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

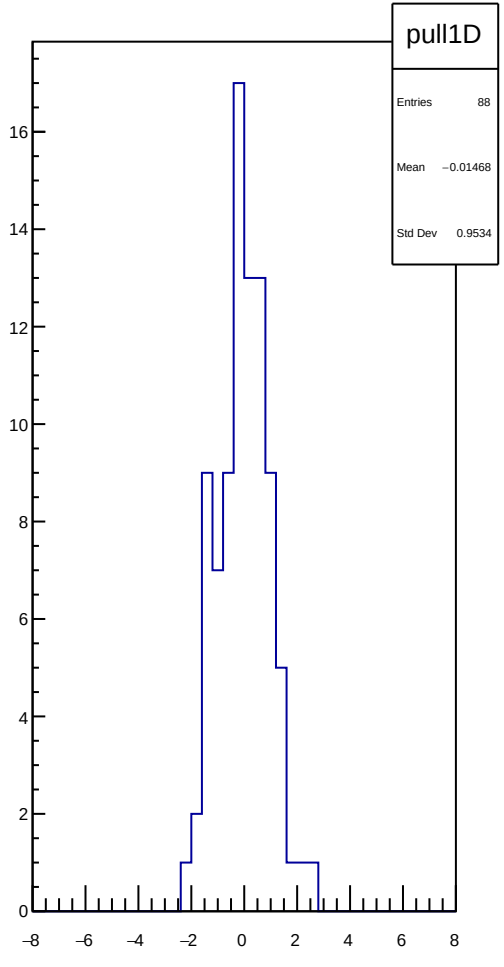

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3942 / 87
p0 640.7 ± 0.4986
760
740
720
700
680
660
640
620
600
580

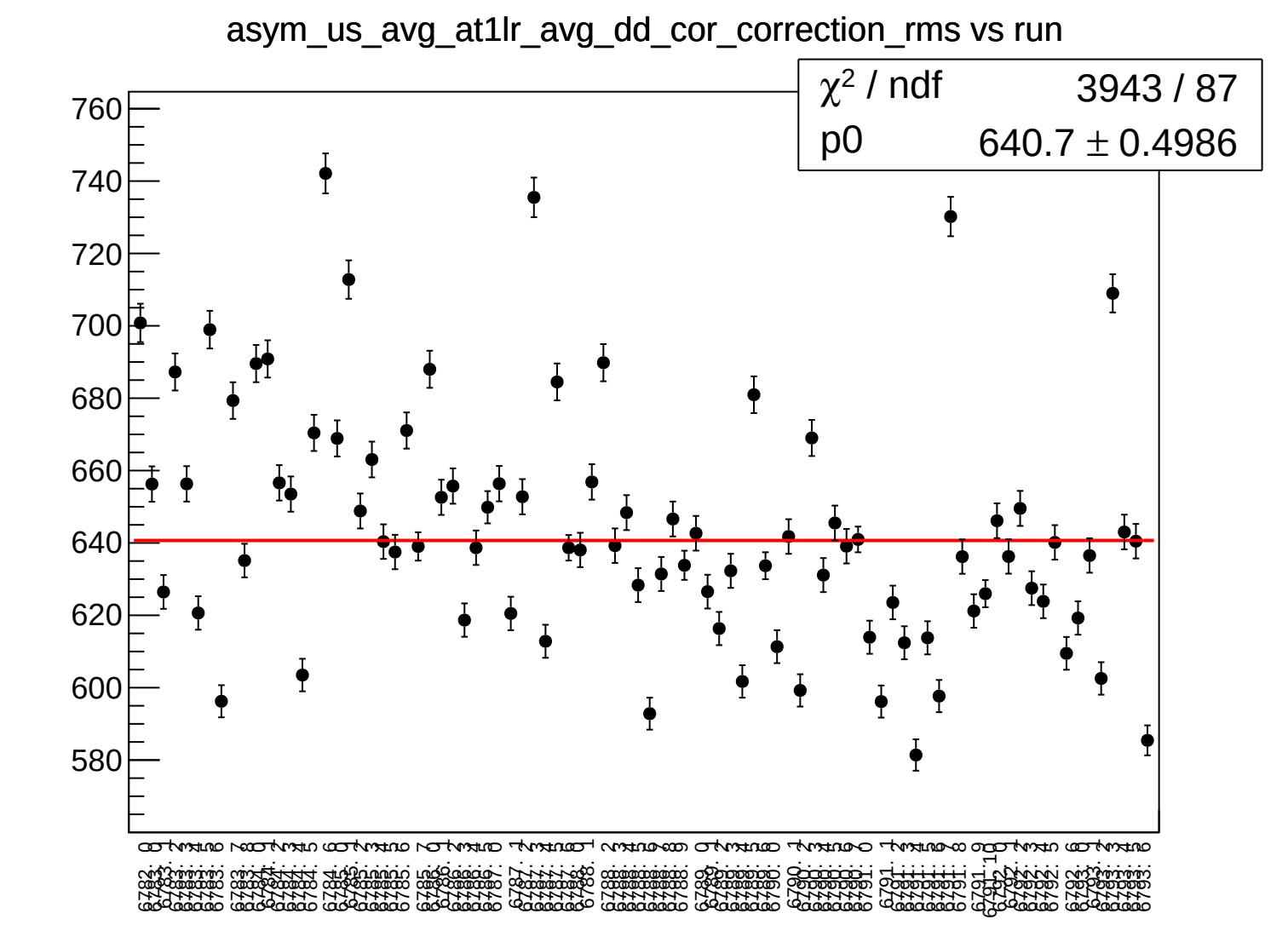

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.58 / 87
p0 1081 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 178.6
Std Dev 0
2
1
0
−1
−2

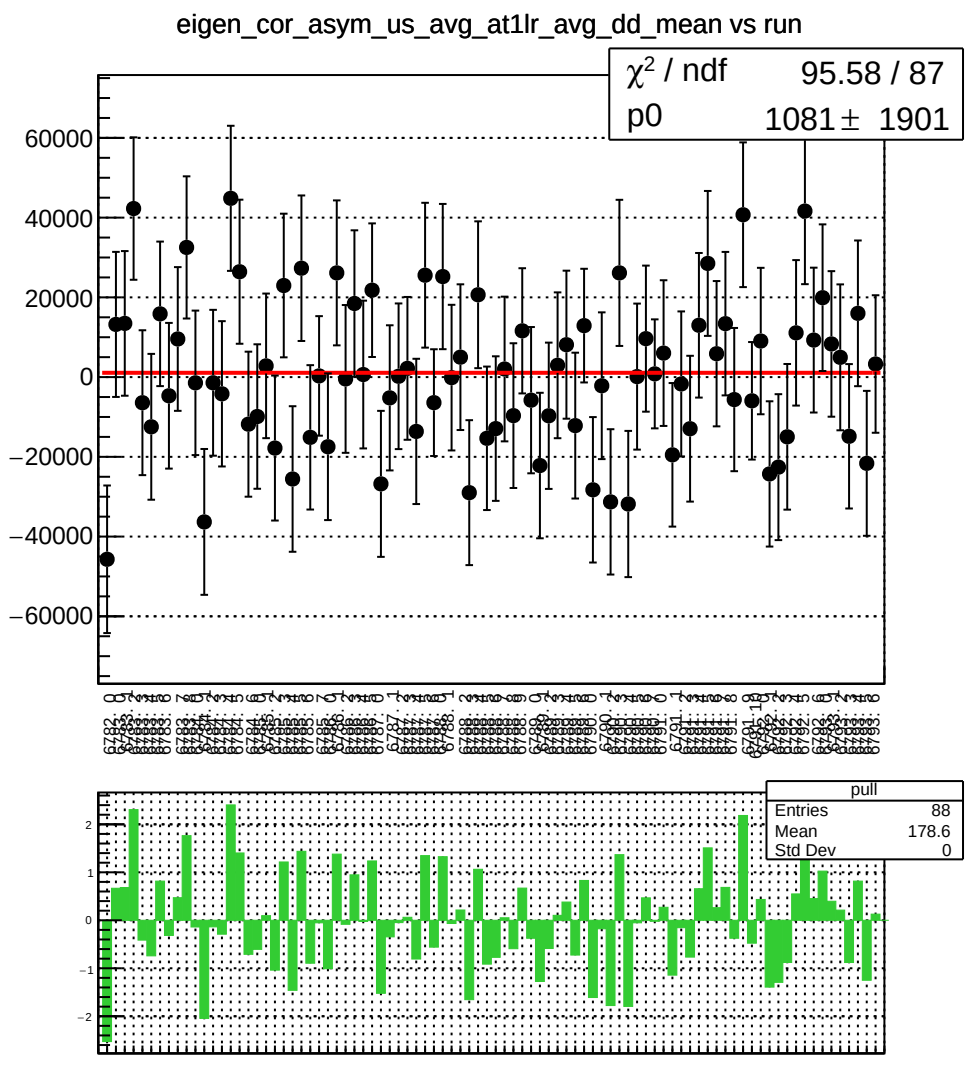

pull1D
Entries 88
Mean −0.002931
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

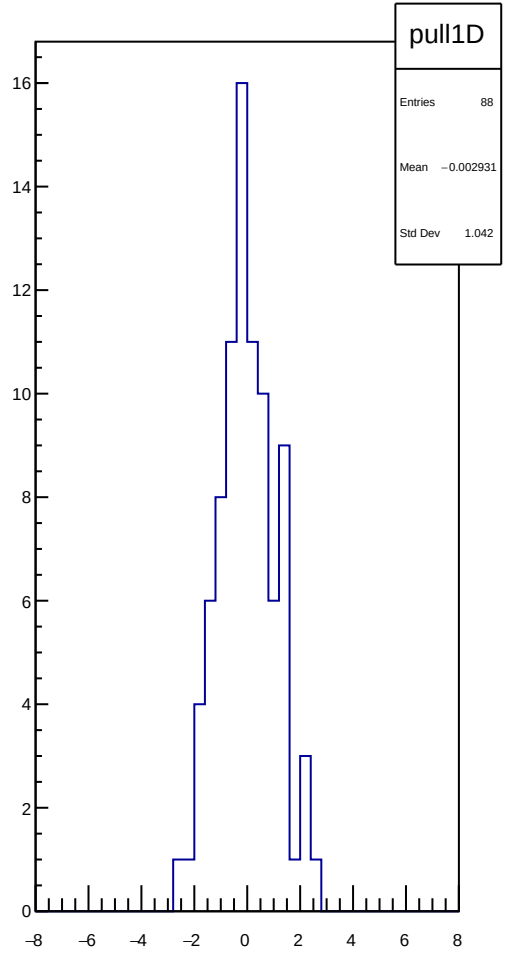

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 82.49 / 87
p0 1729 ± 1.344
1780
1760
1740
1720
1700
1680

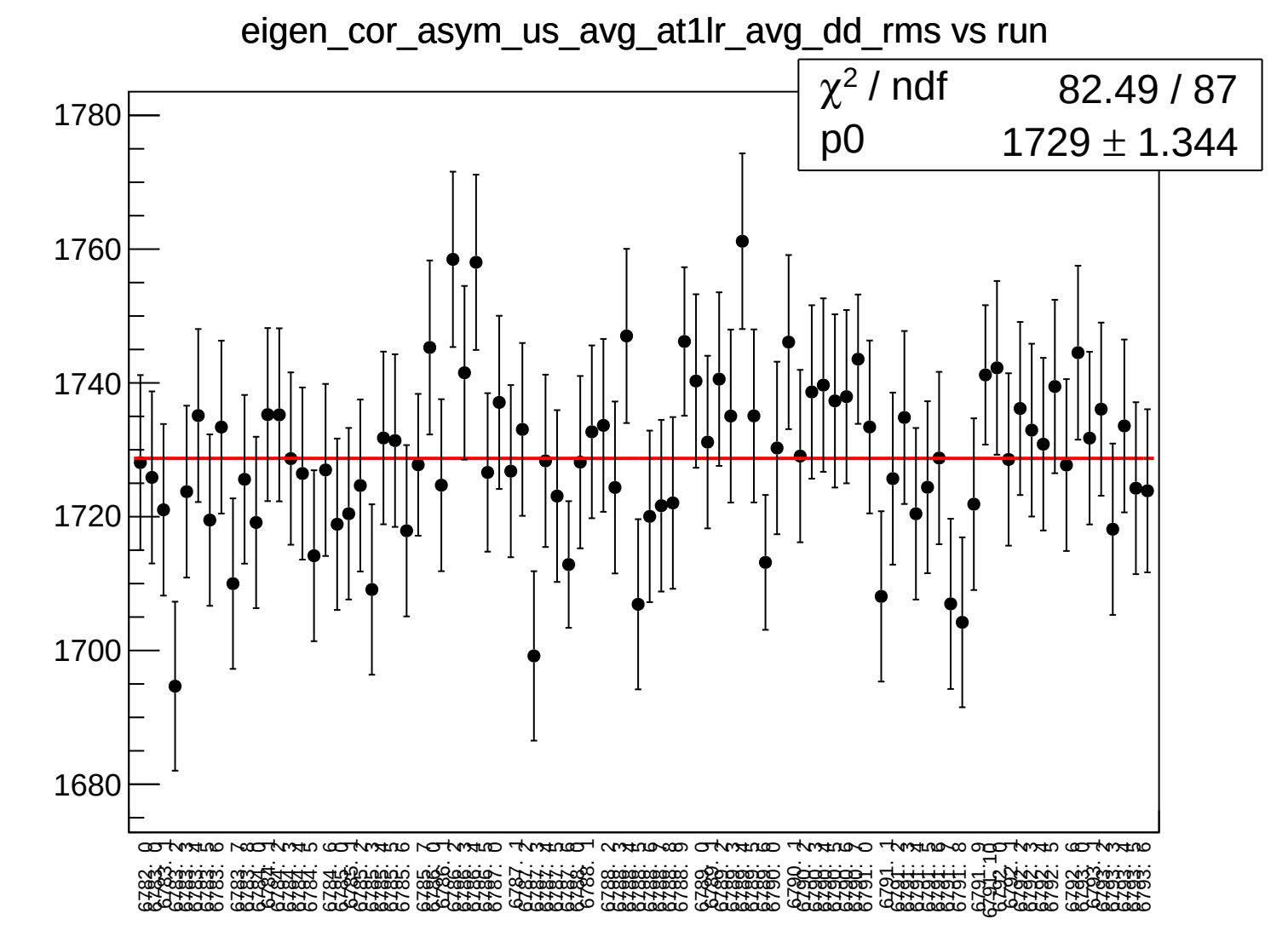

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 80 / 87
p0 −132.8 ± 705.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 10.35
Std Dev 0
3
2
1
0
−1
−2

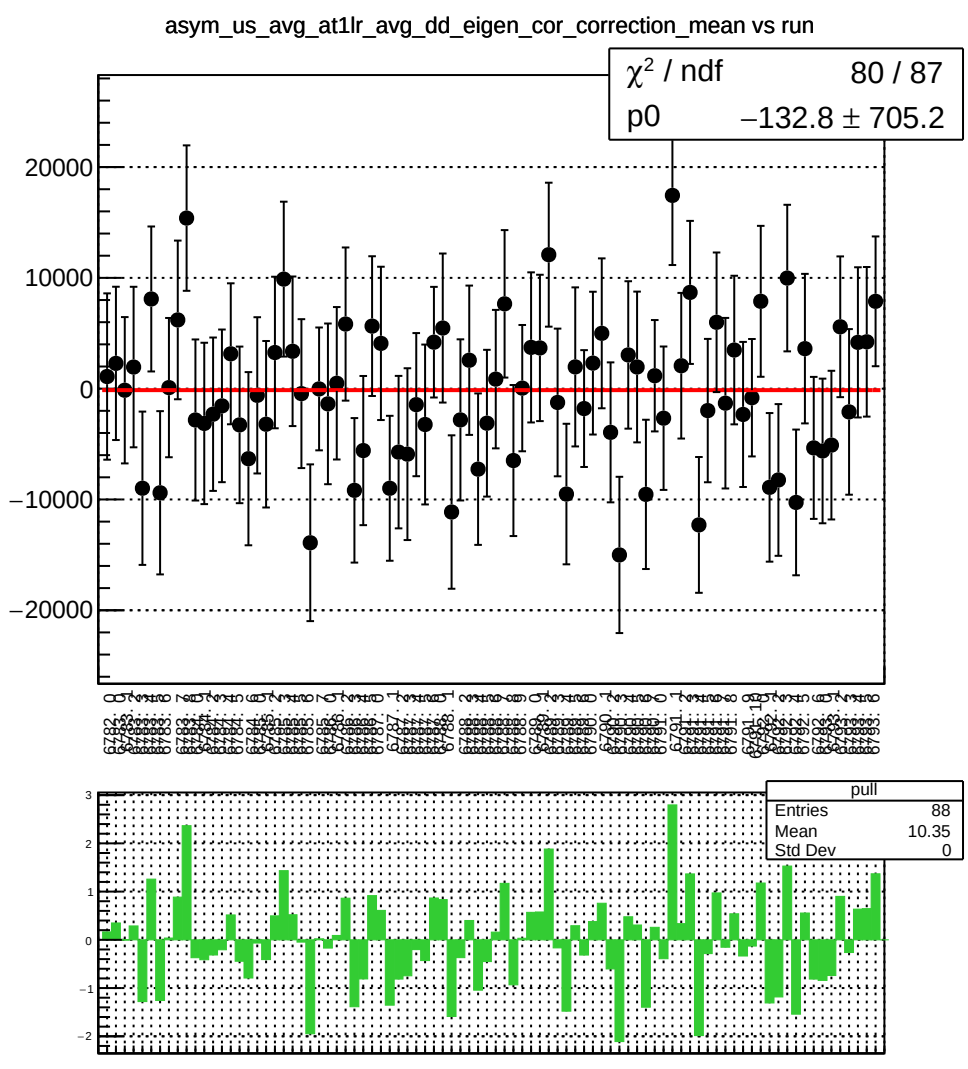

pull1D
Entries 88
Mean −0.01468
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

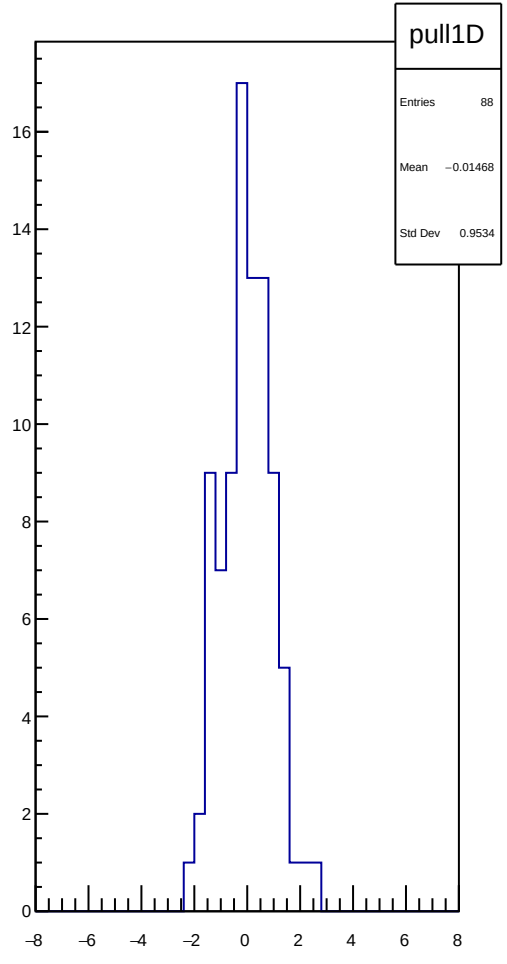

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3943 / 87
p0 640.7 ± 0.4986
760
740
720
700
680
660
640
620
600
580

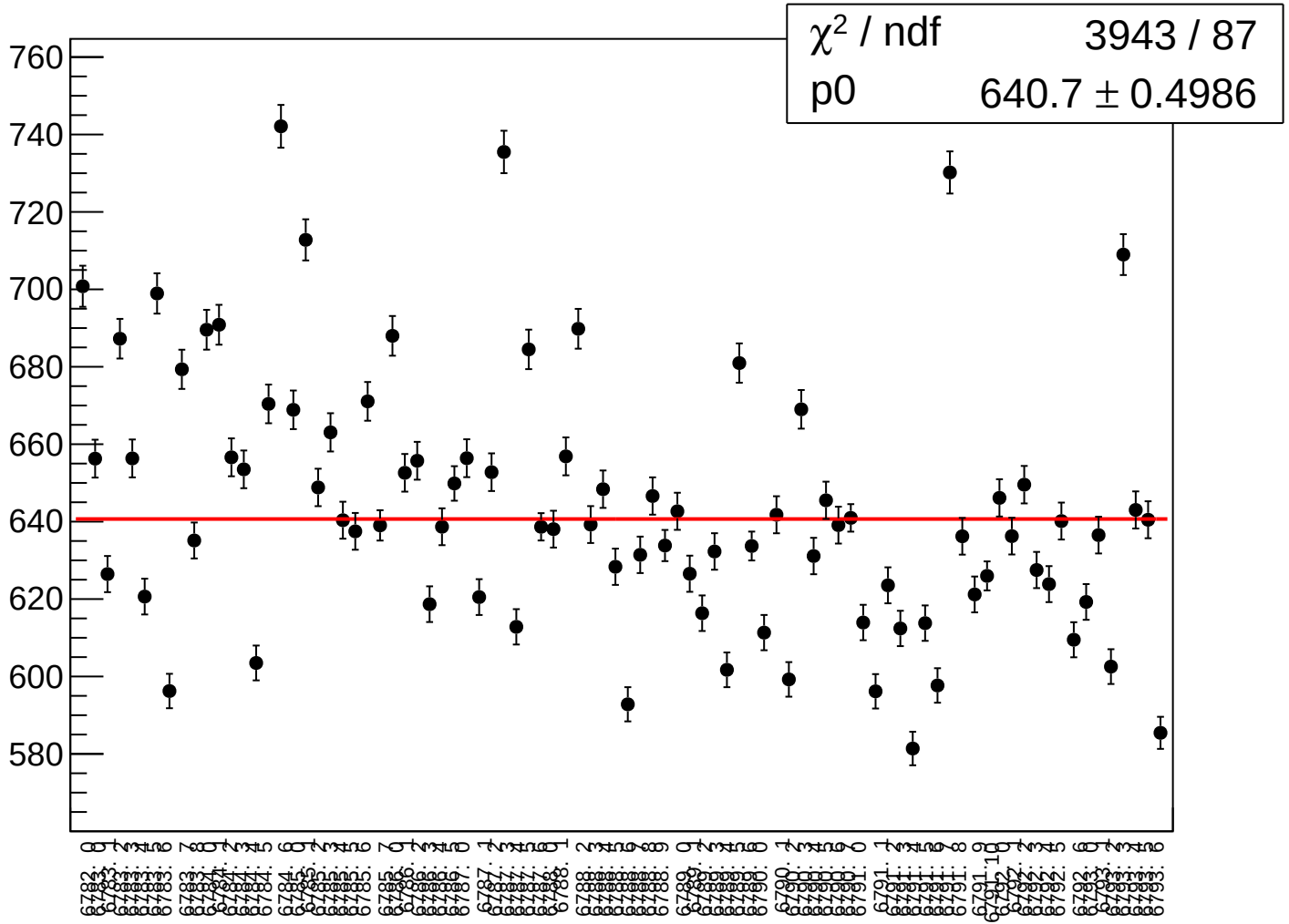

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.58 / 87
p0 1081 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 178.6
Std Dev 0
2
1
0
−1
−2

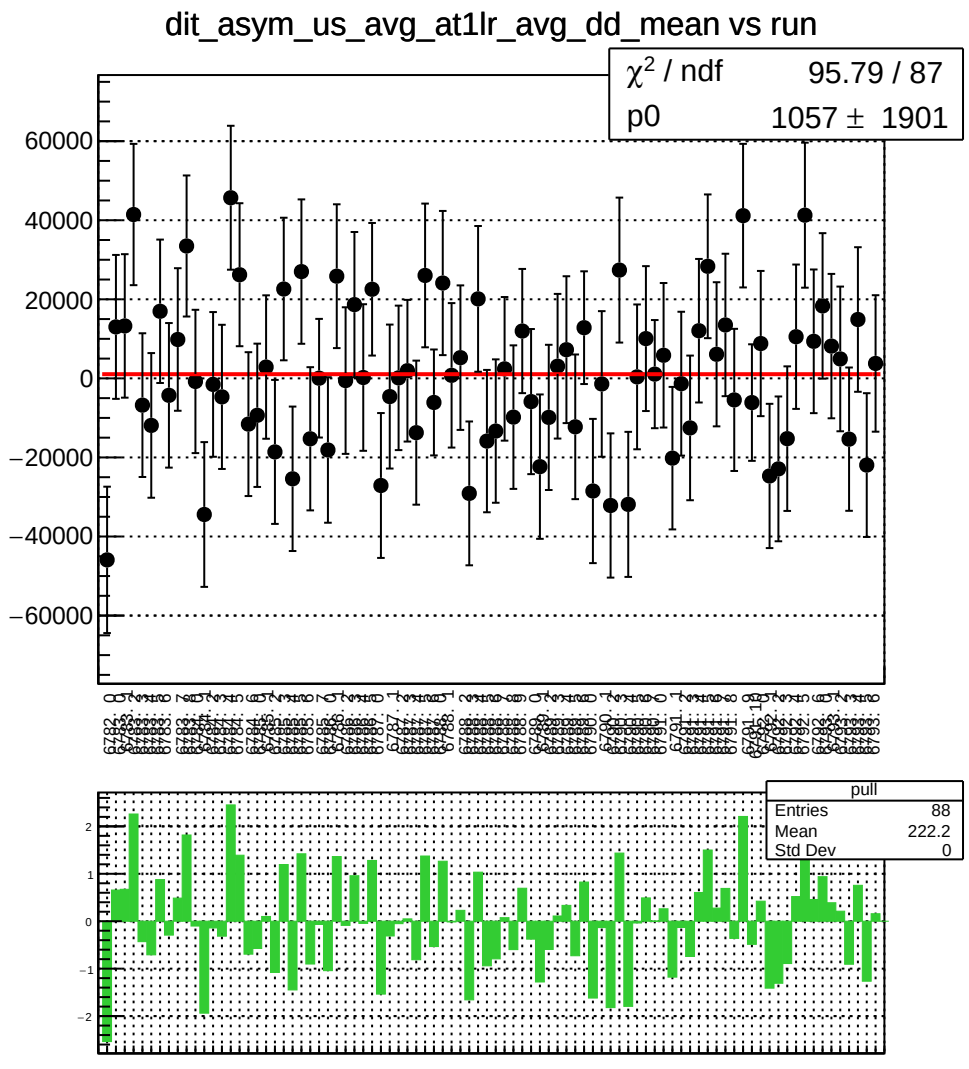

pull1D
Entries 88
Mean −0.002931
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

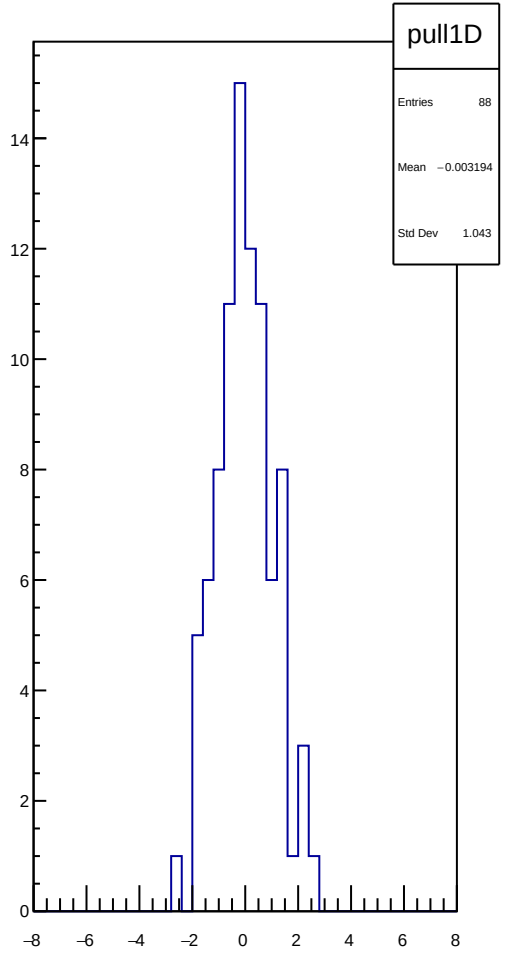

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 82.49 / 87
p0 1729 ± 1.344
1780
1760
1740
1720
1700
1680

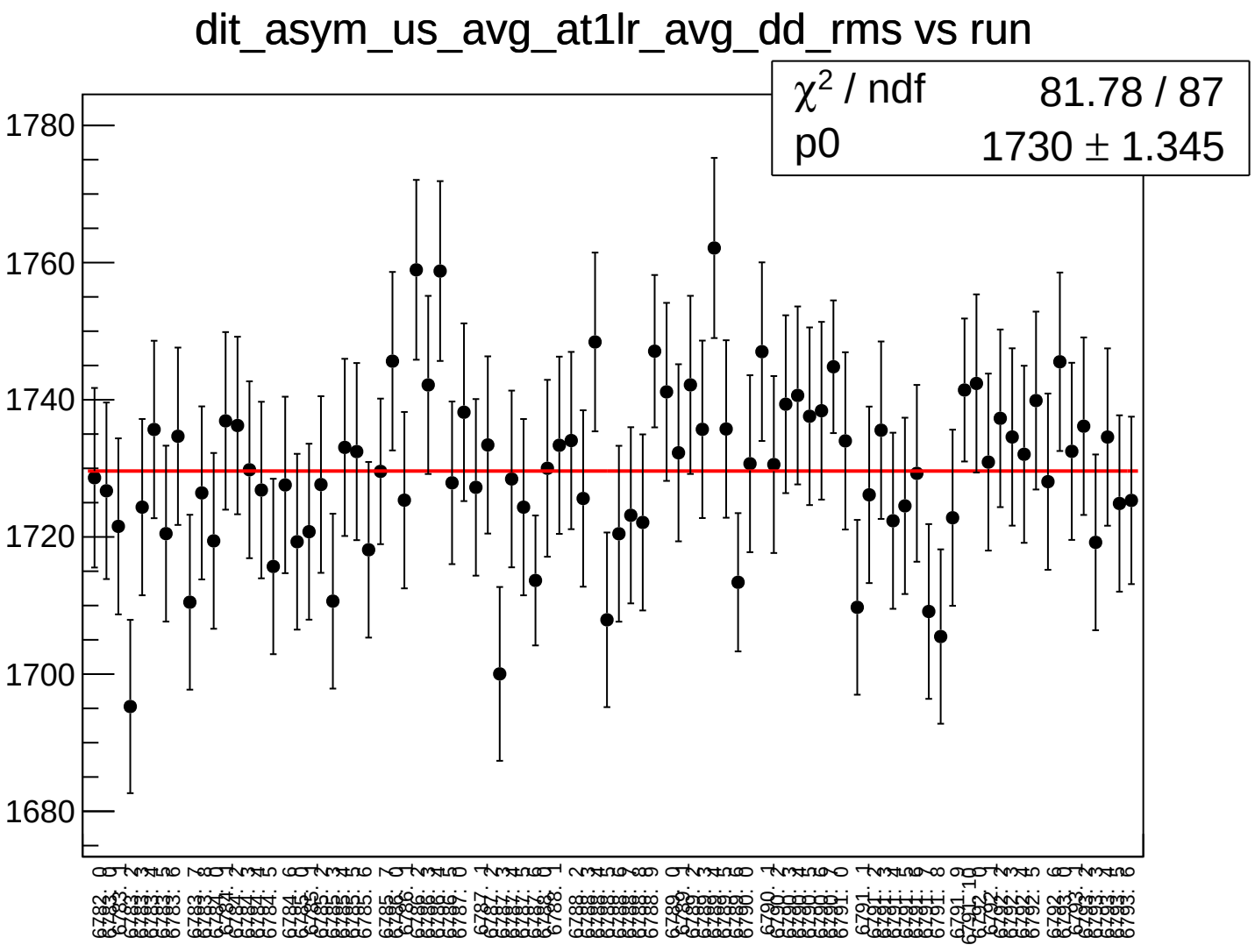

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 80 / 87
p0 −132.8 ± 705.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 10.35
Std Dev 0
3
2
1
0
−1
−2

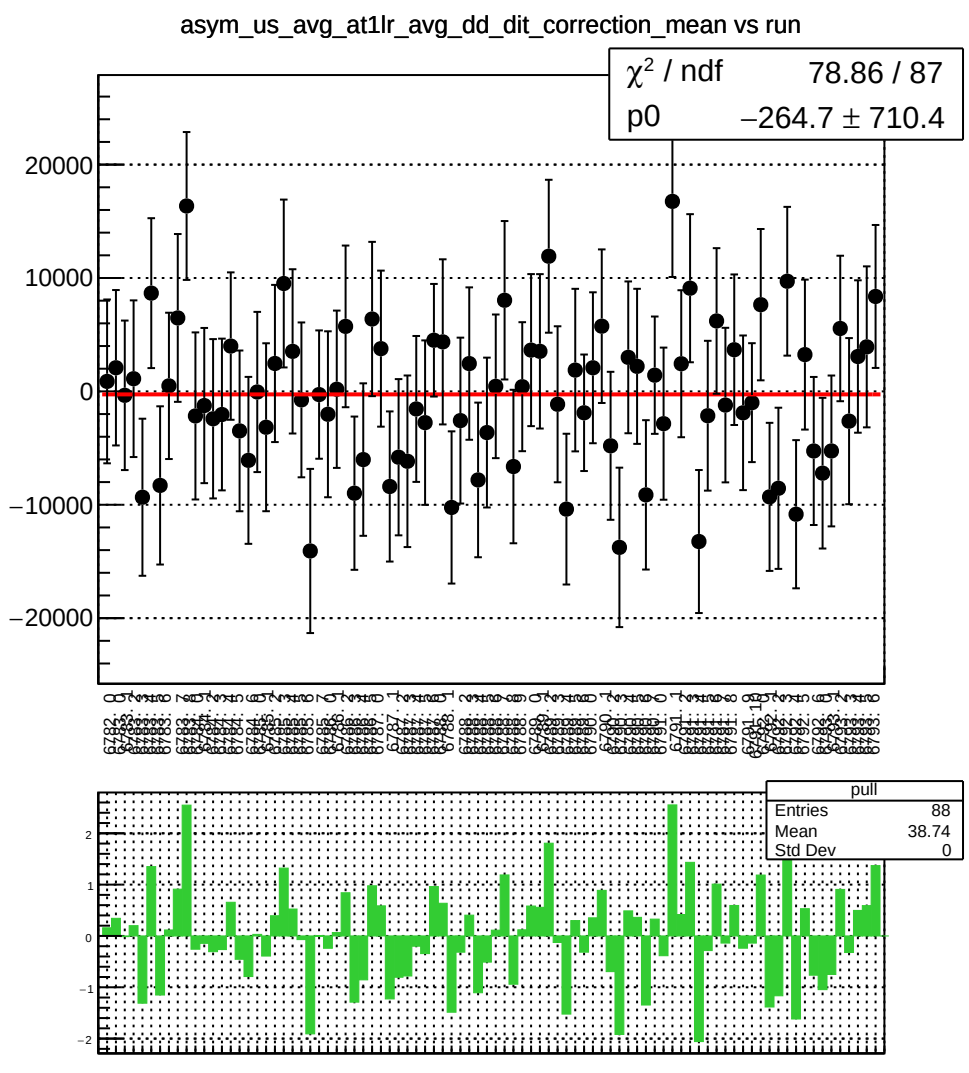

pull1D
Entries 88
Mean −0.01468
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

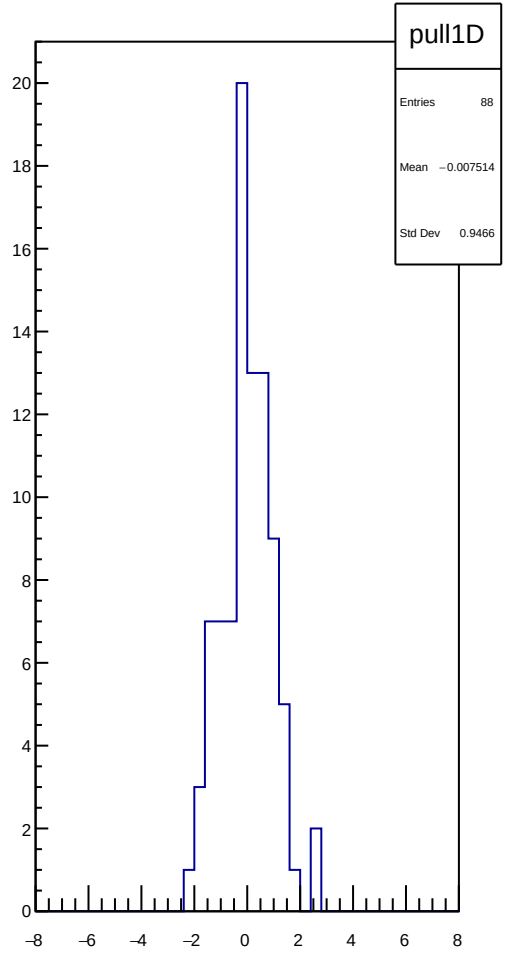

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3943 / 87
p0 640.7 ± 0.4986
760
740
720
700
680
660
640
620
600
580

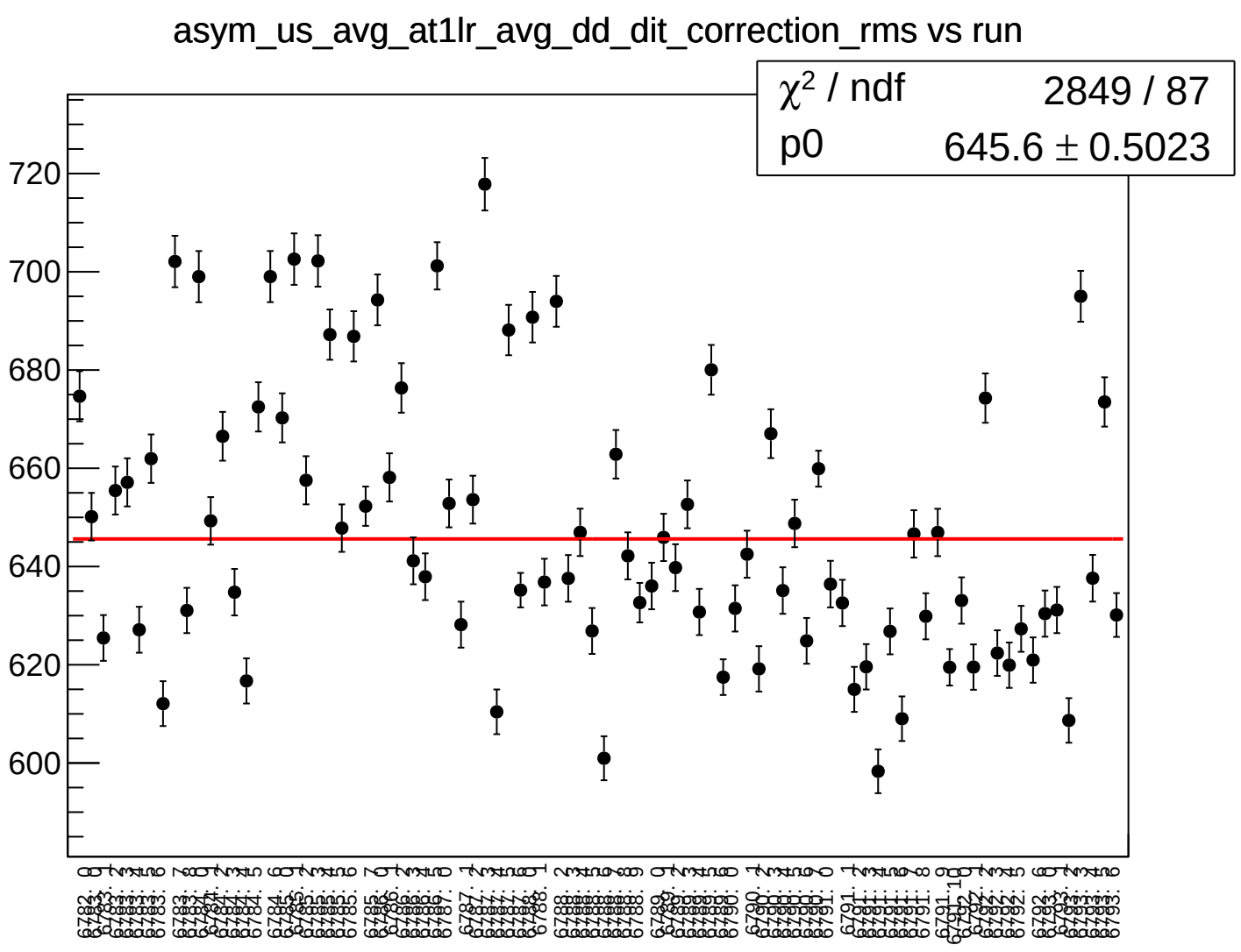

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.79 / 87
p0 1057 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 222.2
Std Dev 0
2
1
0
−1
−2

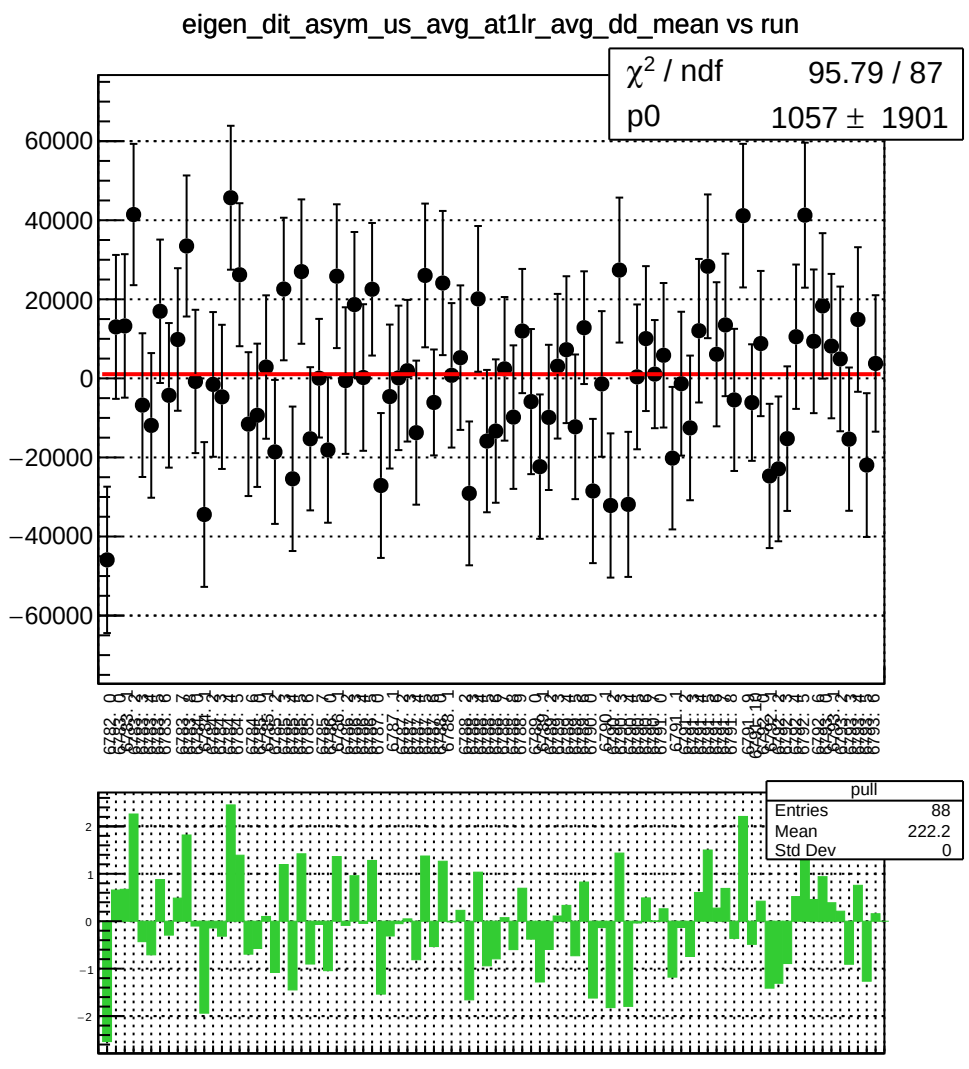

pull1D
Entries 88
Mean −0.003194
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

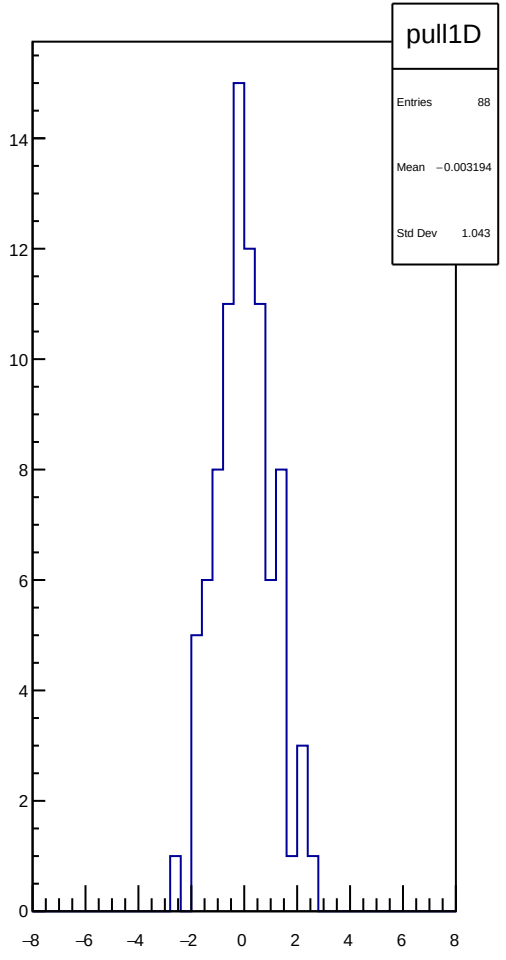

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 81.78 / 87
p0 1730 ± 1.345
1780
1760
1740
1720
1700
1680

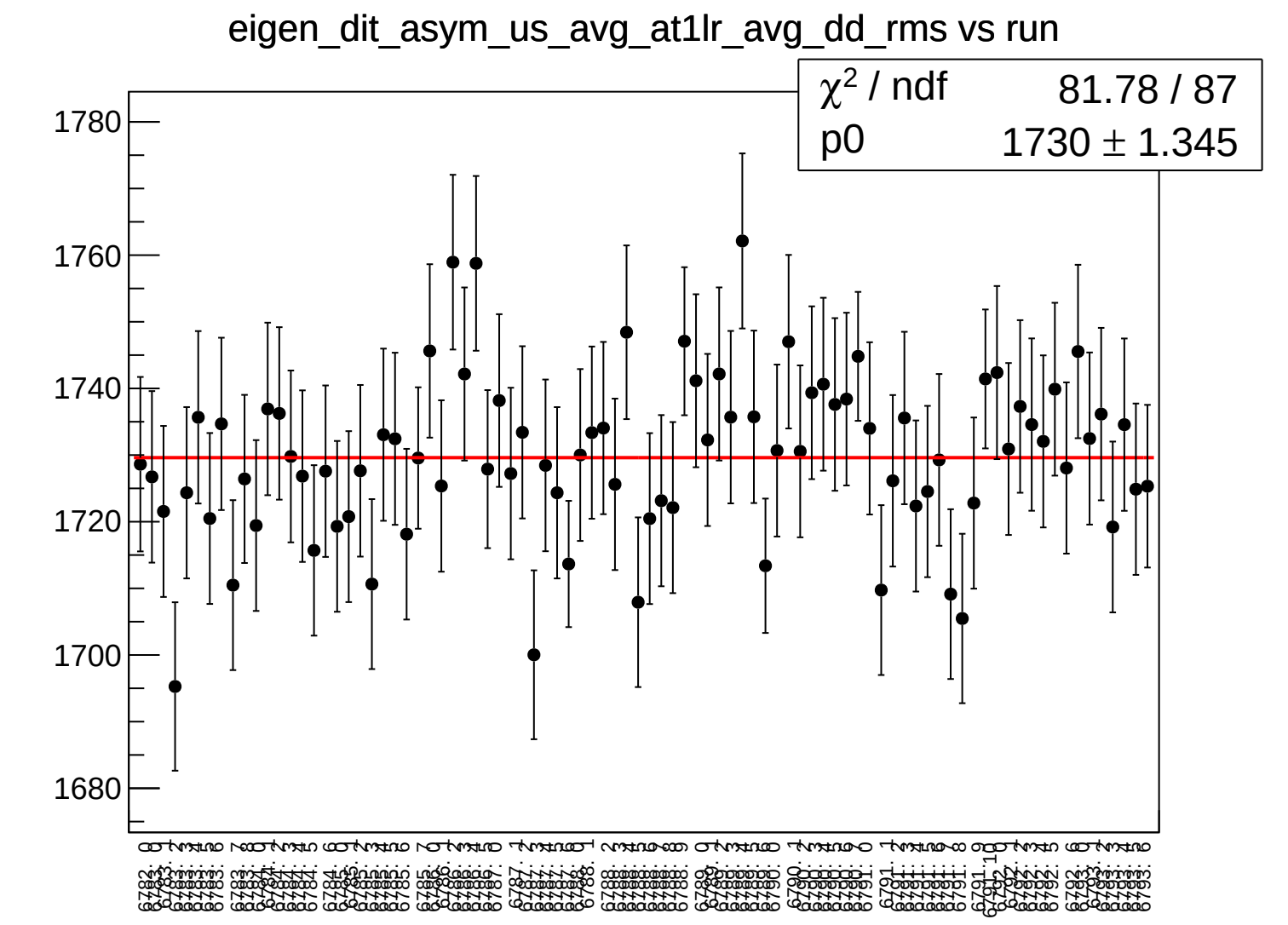

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 78.86 / 87
p0 −264.7 ± 710.4
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 38.74
Std Dev 0
2
1
0
−1
−2

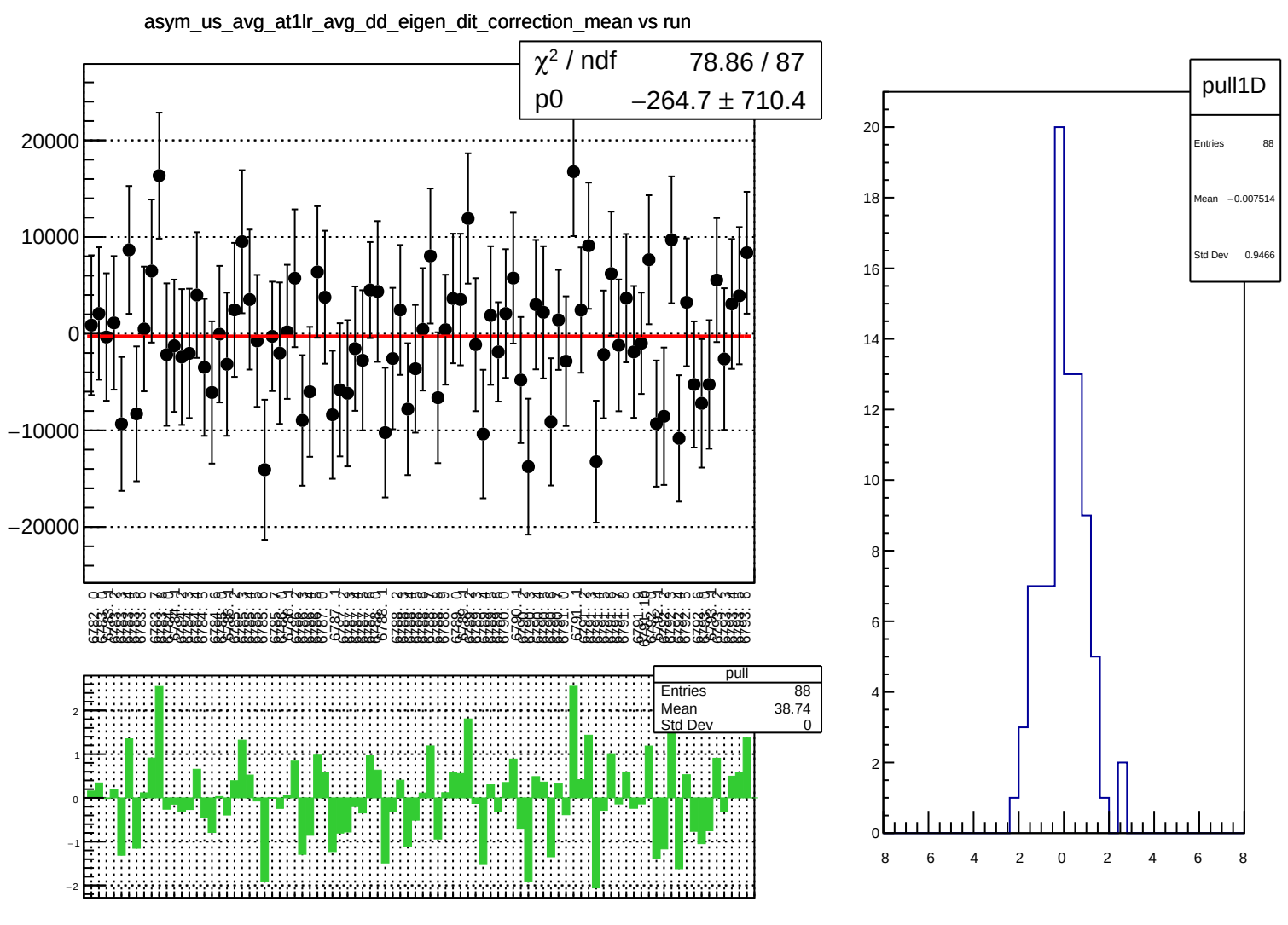

pull1D
Entries 88
Mean −0.007514
Std Dev 0.9466
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

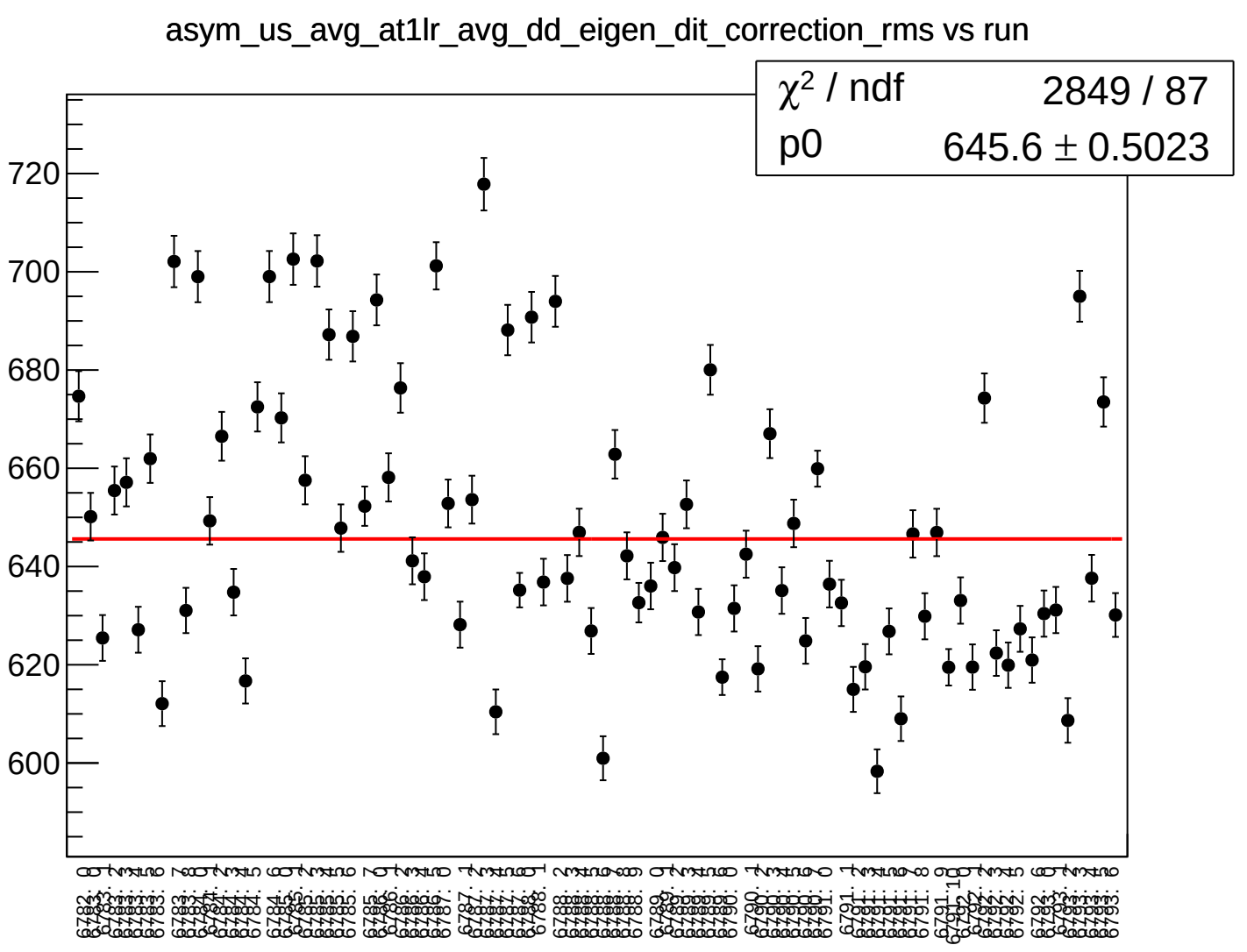

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2849 / 87
p0 645.6 ± 0.5023
720
700
680
660
640
620
600

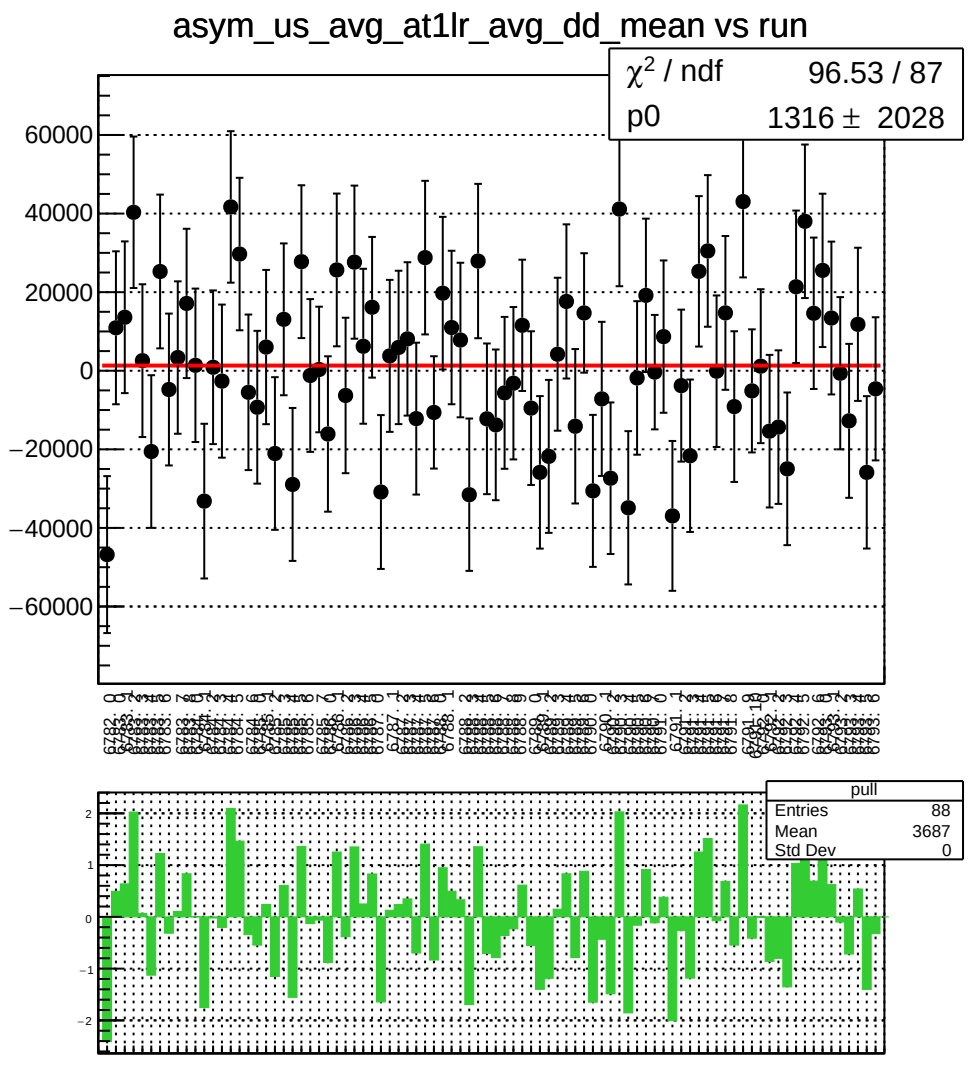

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.79 / 87
p0 1057 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 222.2
Std Dev 0
2
1
0
−1
−2

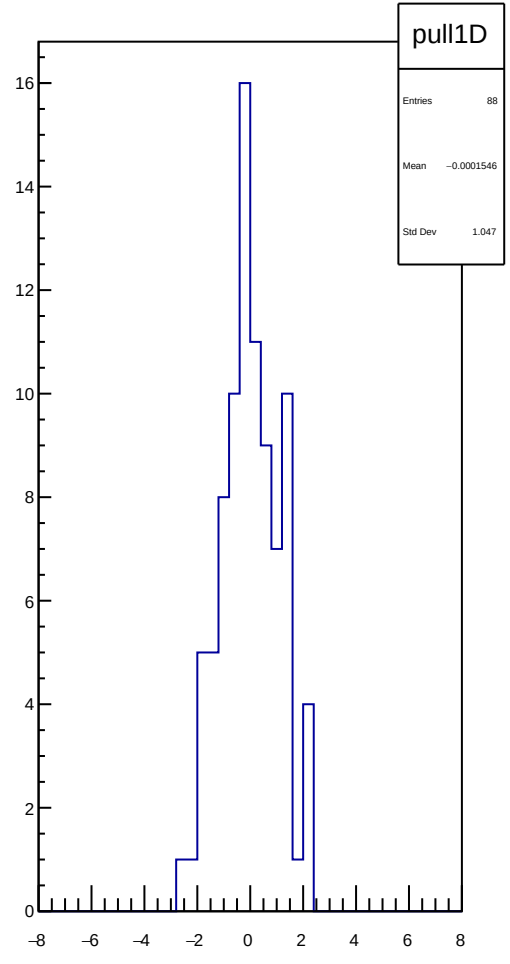

pull1D
Entries 88
Mean −0.003194
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

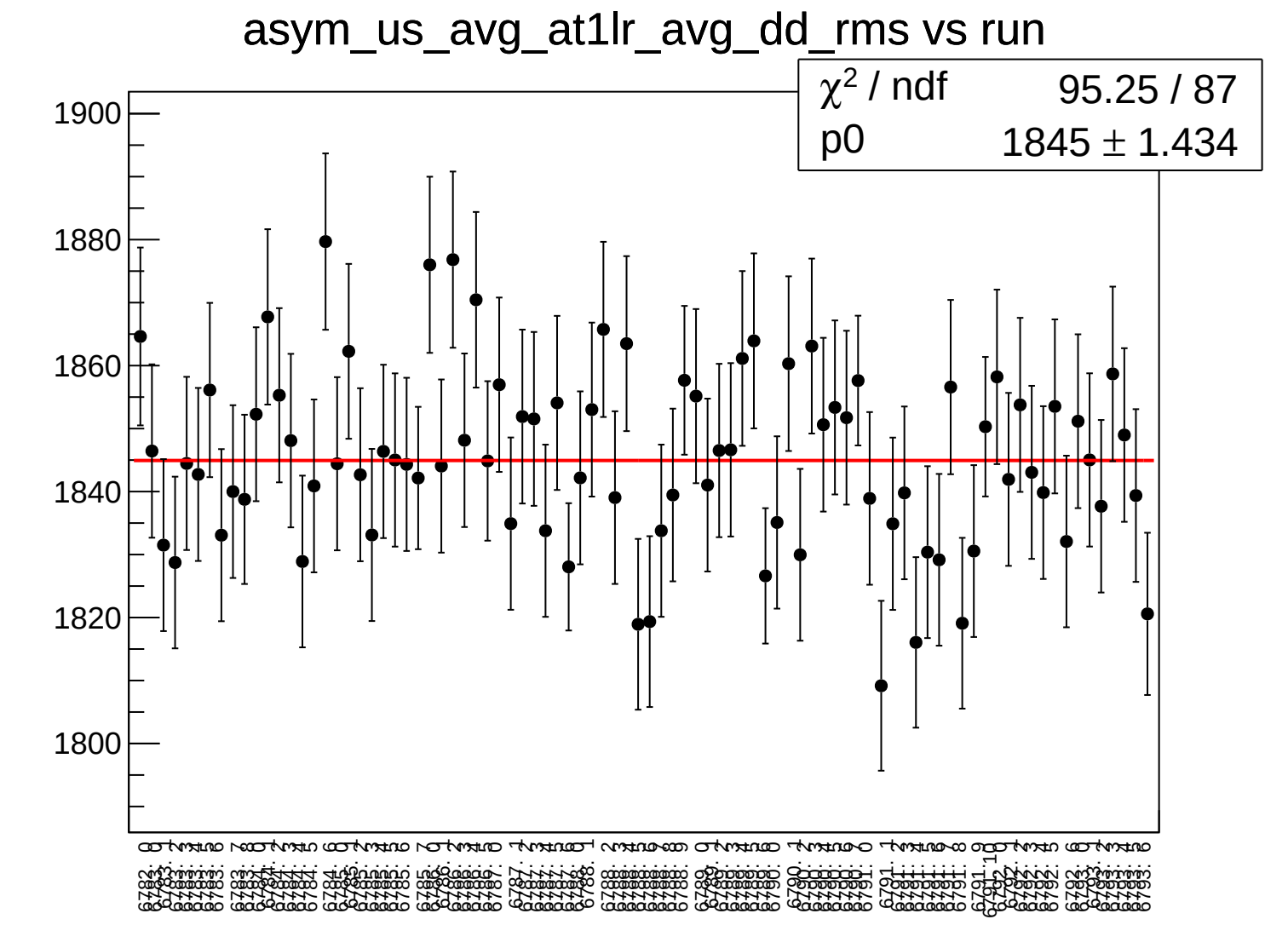

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 81.78 / 87
p0 1730 ± 1.345
1780
1760
1740
1720
1700
1680

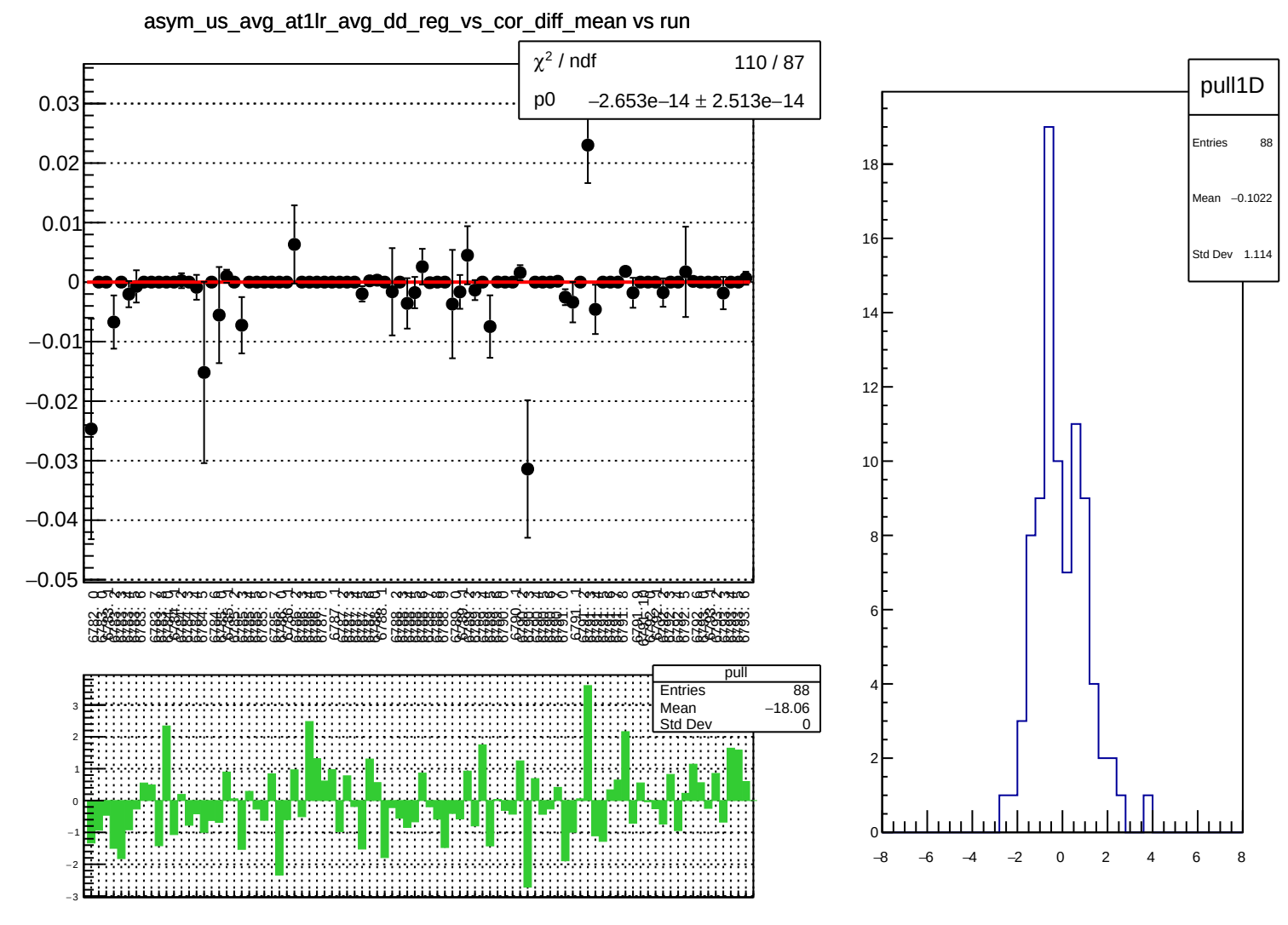

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.86 / 87
p0 −264.7 ± 710.4
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 38.74
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007514
Std Dev 0.9466
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

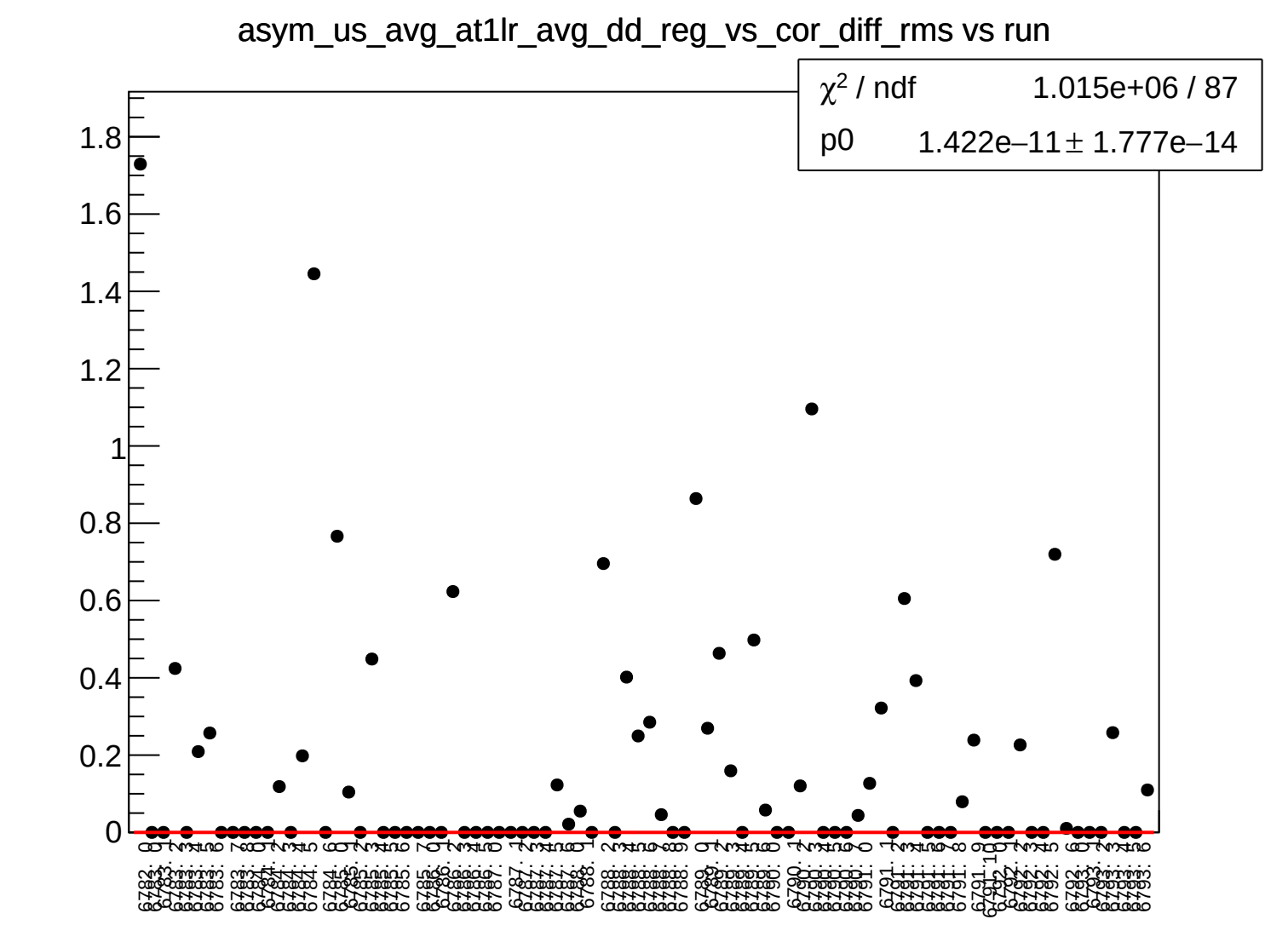

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2849 / 87
p0 645.6 ± 0.5023
720
700
680
660
640
620
600

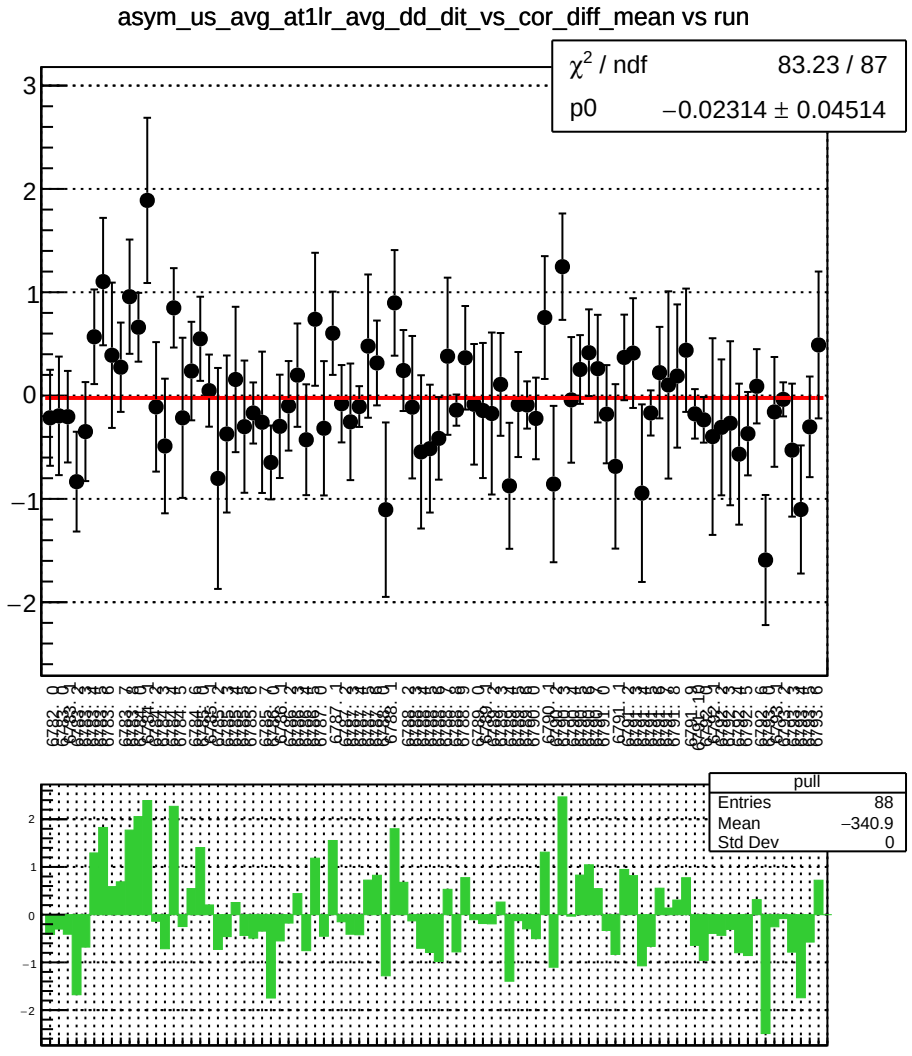

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 96.53 / 87
p0 1316 ± 2028
pull
Entries 88
Mean 3687
Std Dev 0

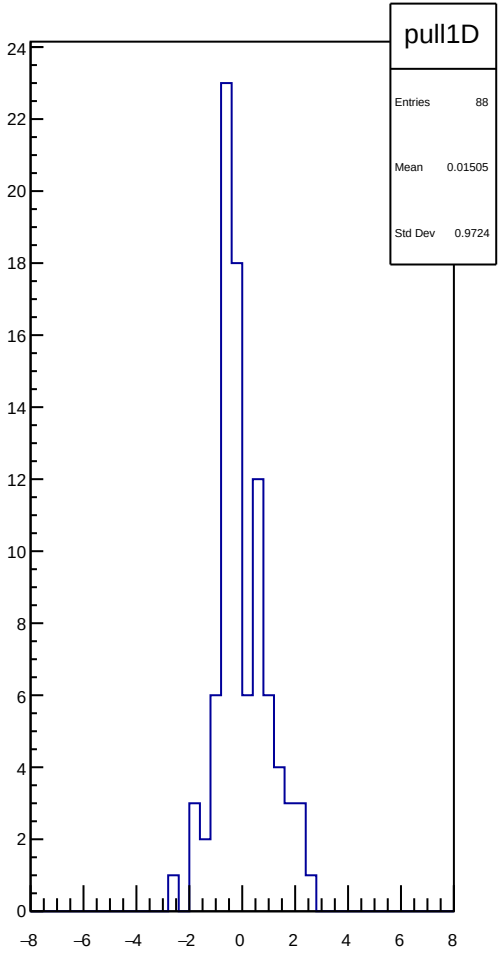

pull1D
Entries 88
Mean −0.0001546
Std Dev 1.047

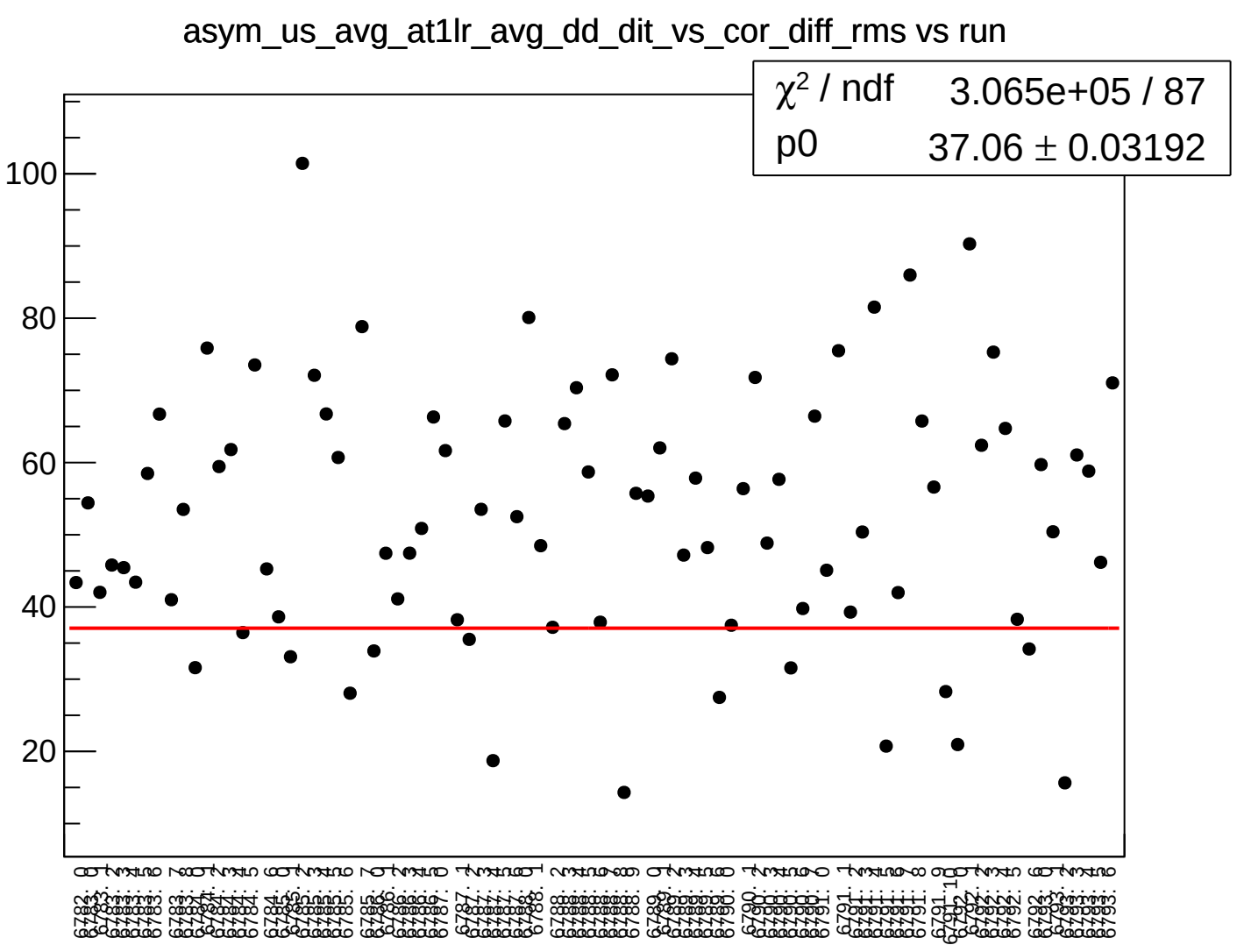

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 95.25 / 87
p0 1845 ± 1.434
1900
1880
1860
1840
1820
1800

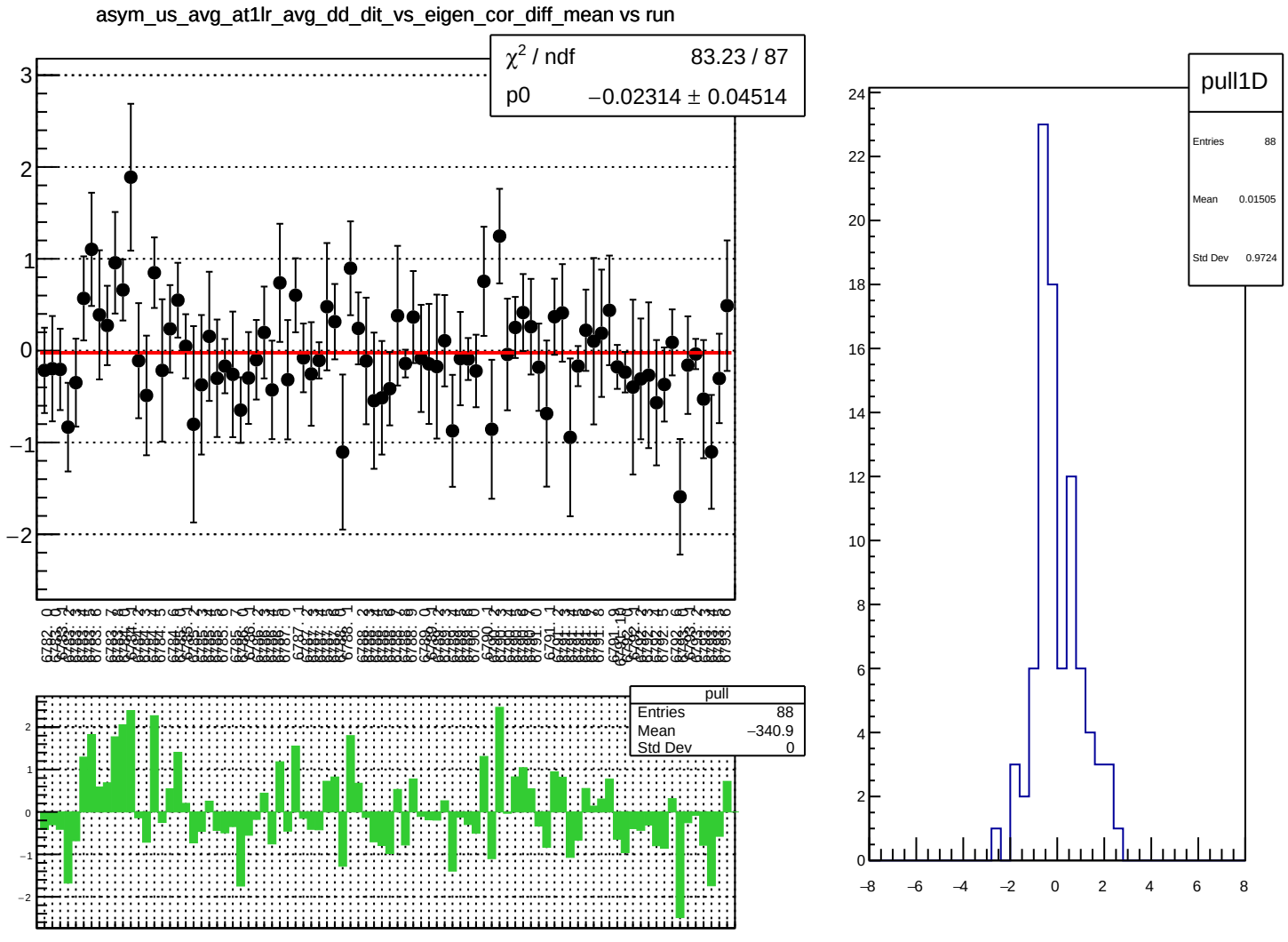

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110 / 87
p0 −2.653e−14 ± 2.513e−14
pull
Entries 88
Mean −18.06
Std Dev 0
pull1D
Entries 88
Mean −0.1022
Std Dev 1.114

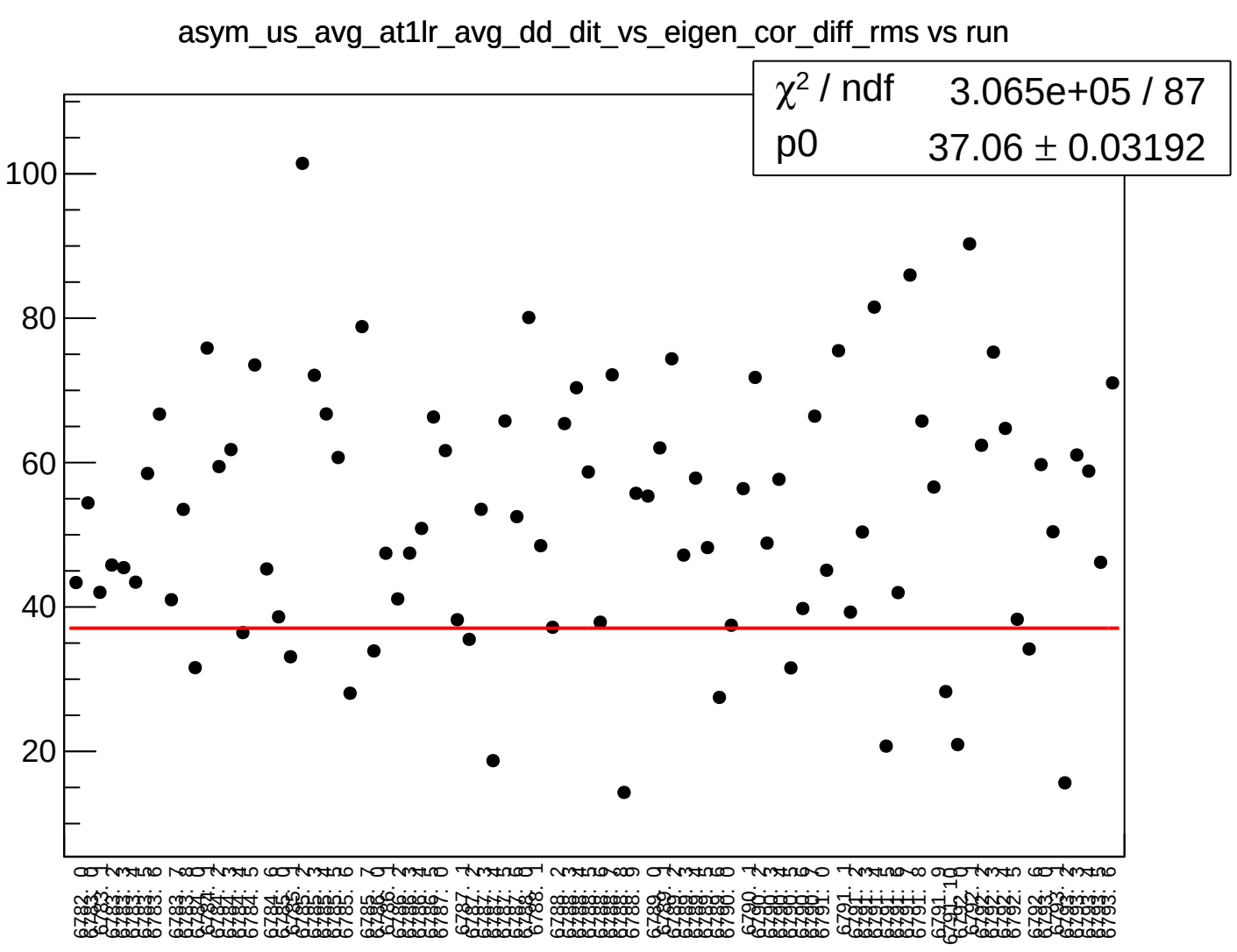

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.015e+06 / 87
p0 1.422e−11 ± 1.777e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

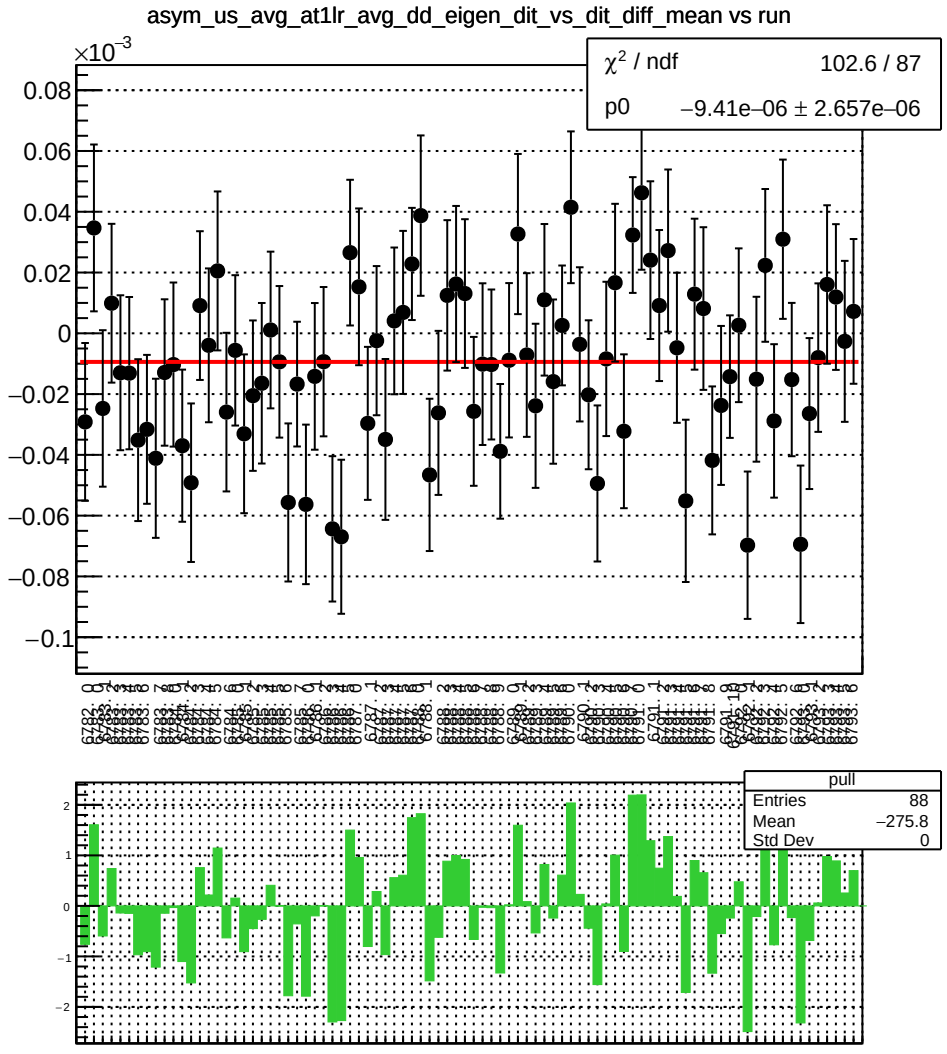

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.23 / 87
p0 −0.02314 ± 0.04514
pull
Entries 88
Mean −340.9
Std Dev 0

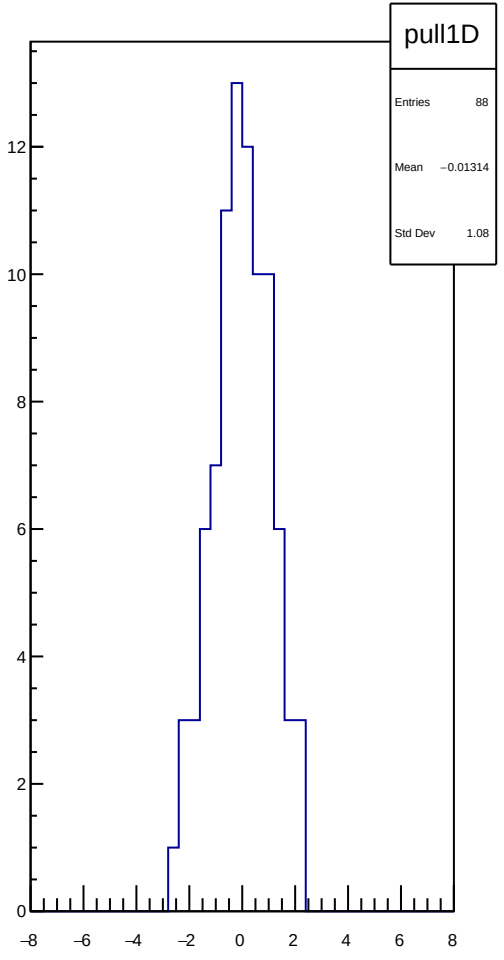

pull1D
Entries 88
Mean 0.01505
Std Dev 0.9724

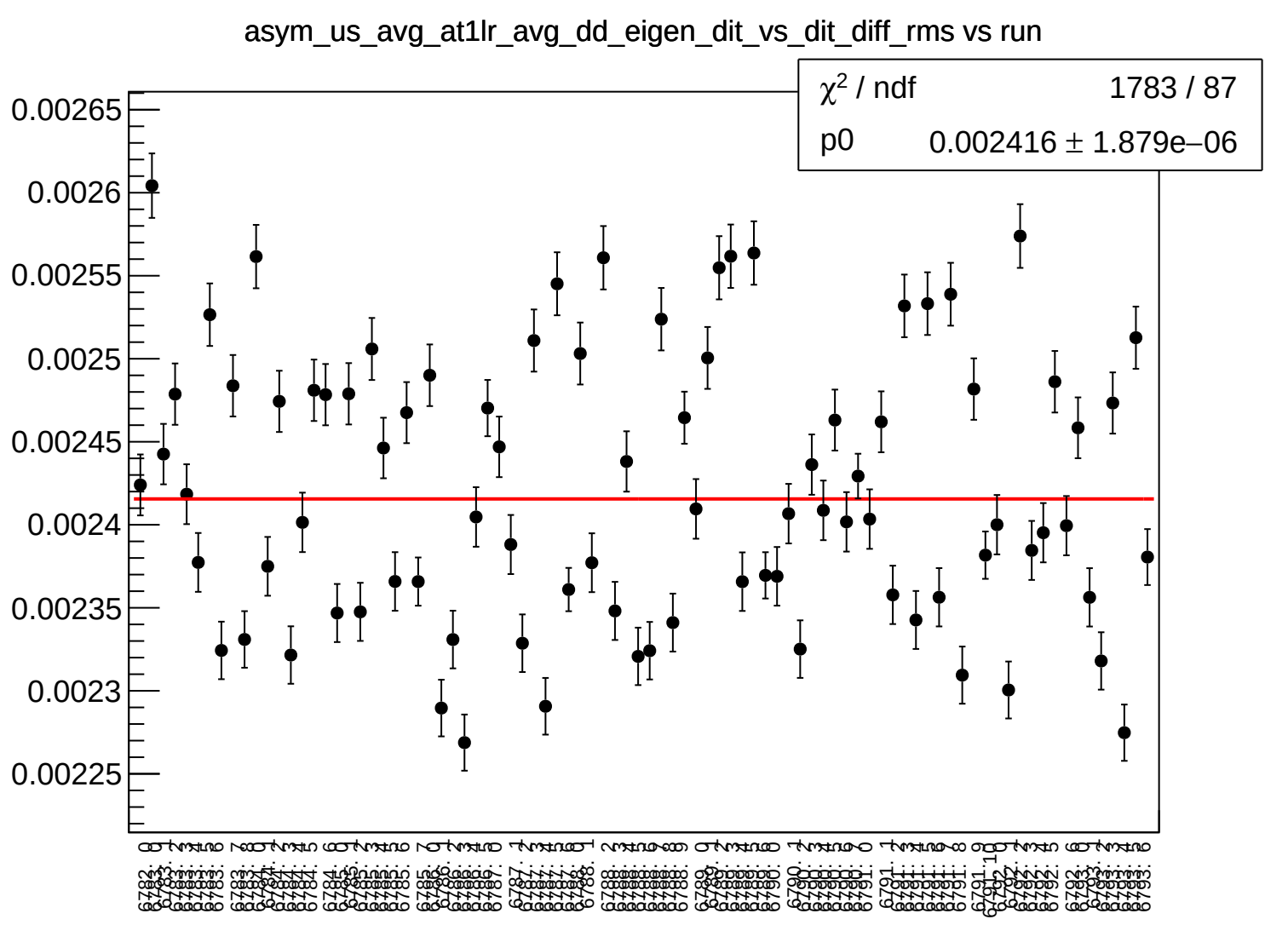

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.065e+05 / 87
p0 37.06 ± 0.03192
100
80
60
40
20

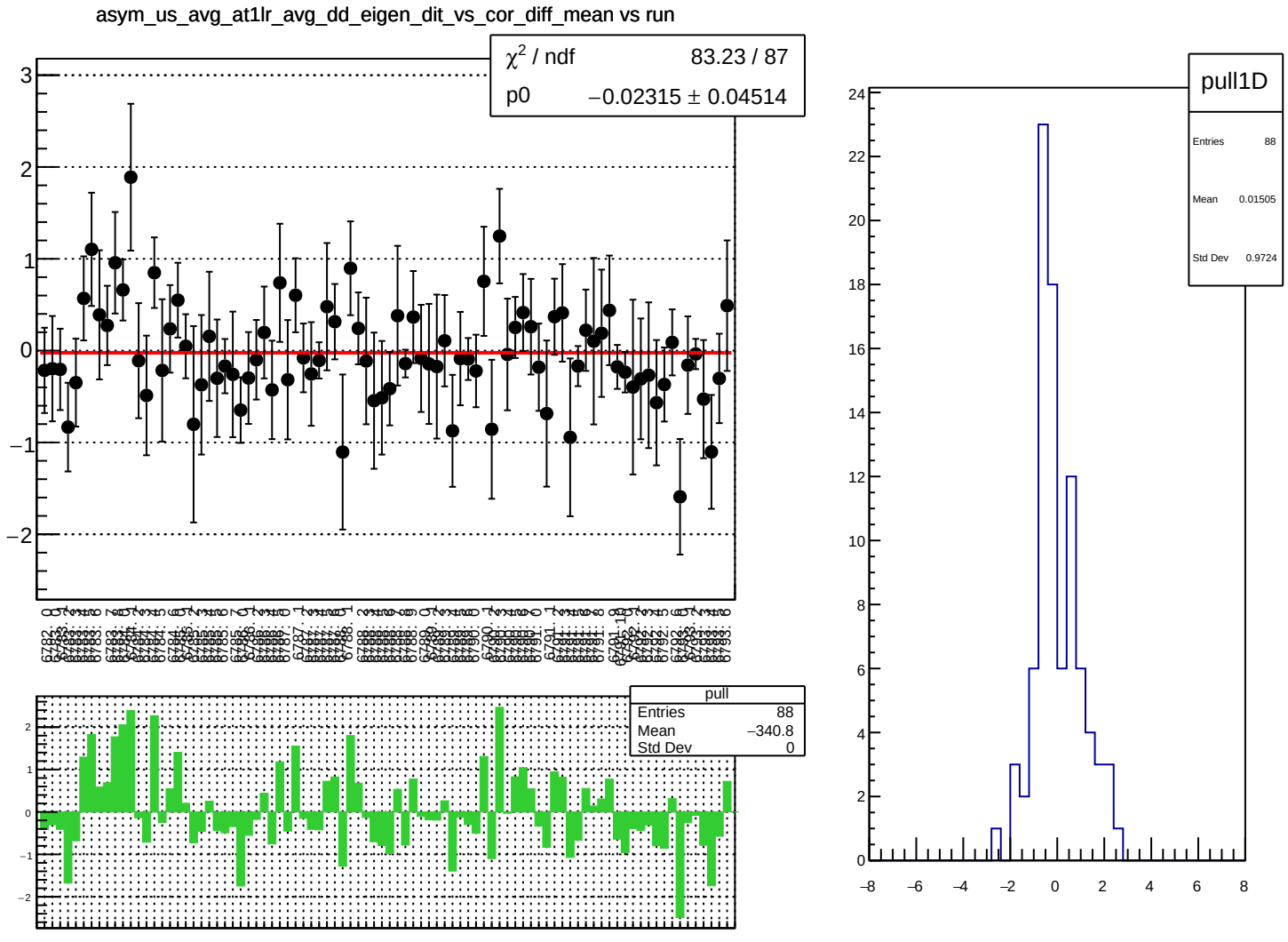

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.23 / 87
p0 −0.02314 ± 0.04514
pull
Entries 88
Mean −340.9
Std Dev 0
pull1D
Entries 88
Mean 0.01505
Std Dev 0.9724

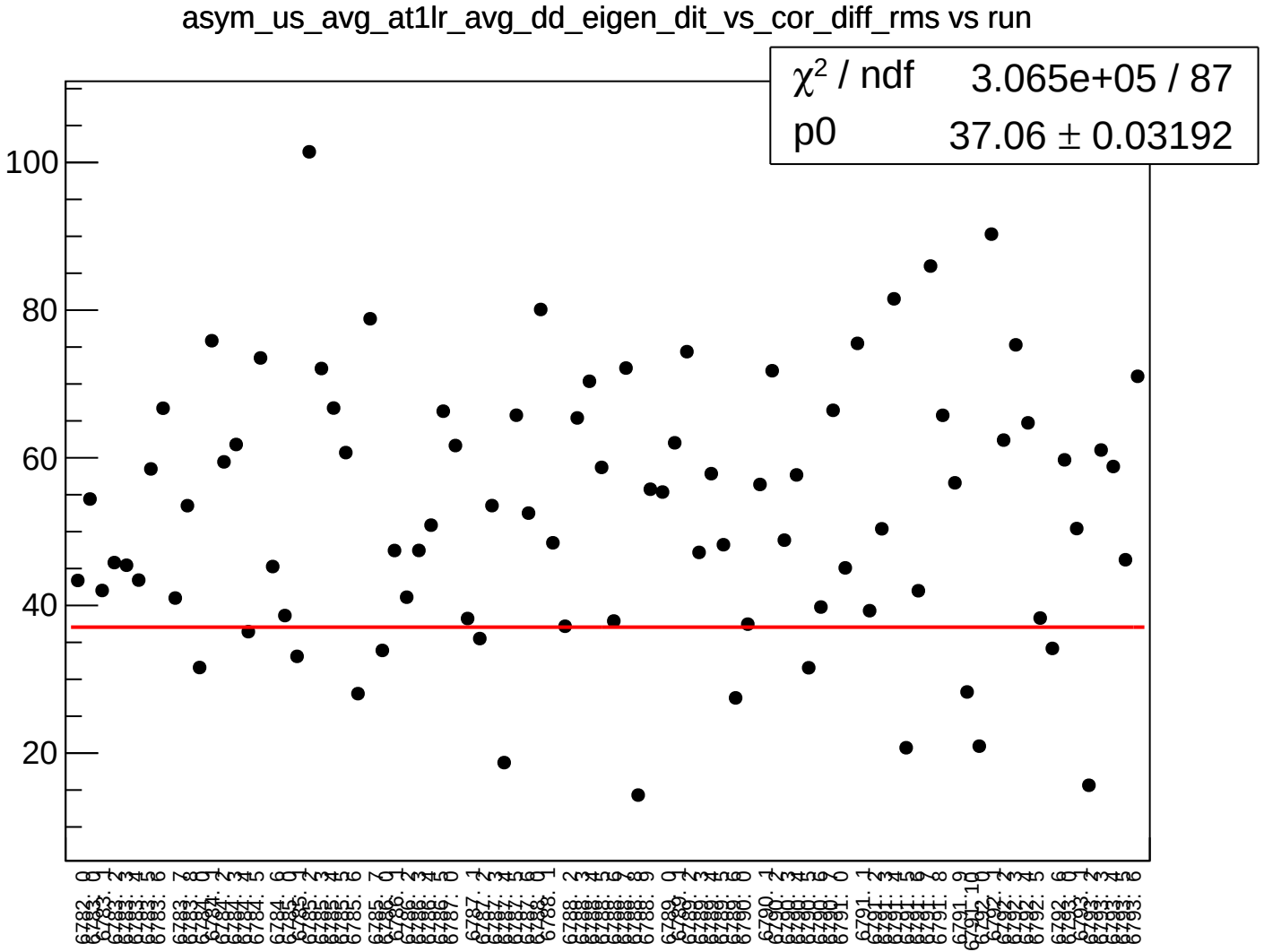

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.065e+05 / 87
p0 37.06 ± 0.03192
100
80
60
40
20

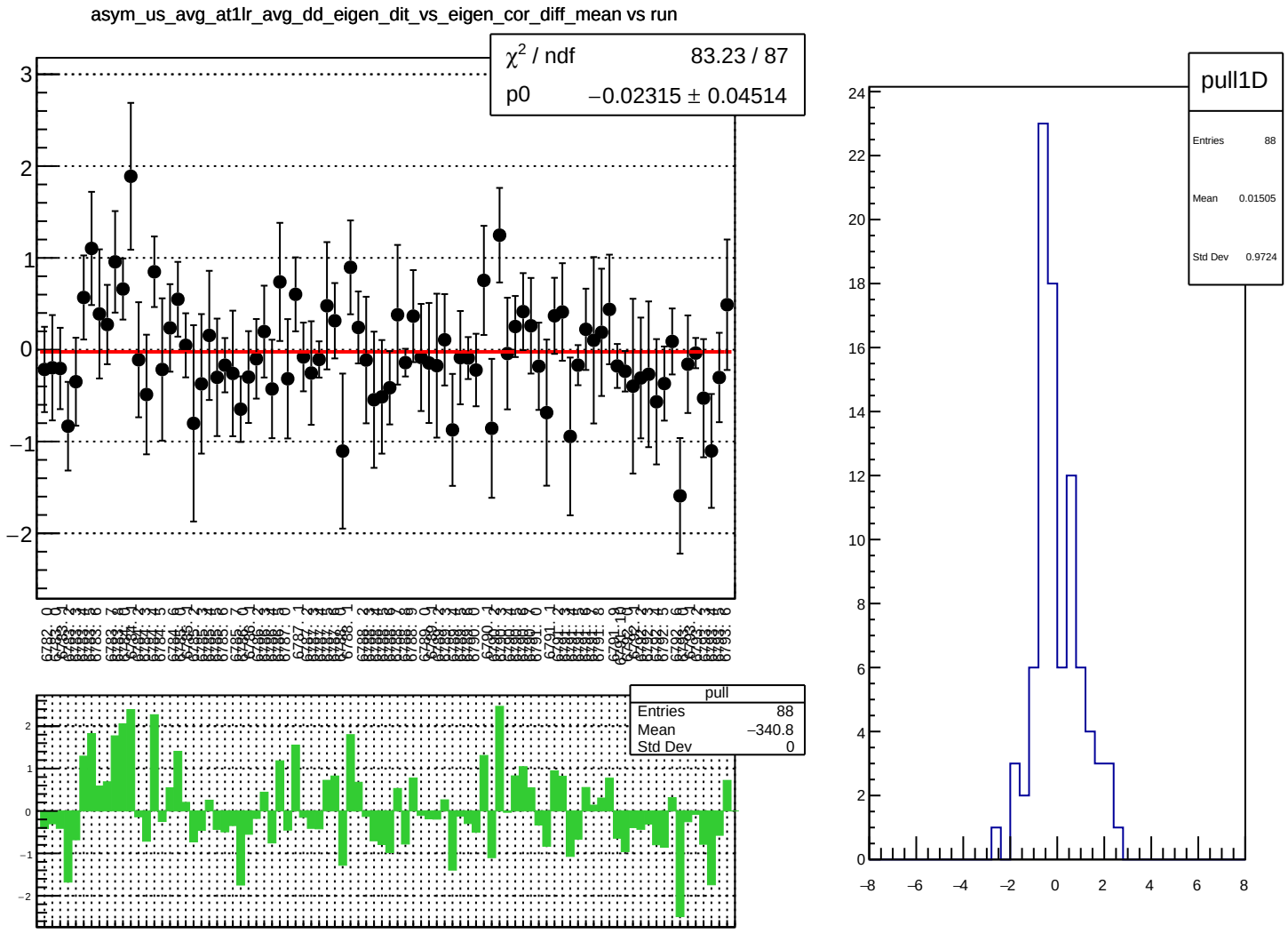

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.6 / 87
p0 −9.41e−06 ± 2.657e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 88
Mean −275.8
Std Dev 0
2
1
0
−1
−2

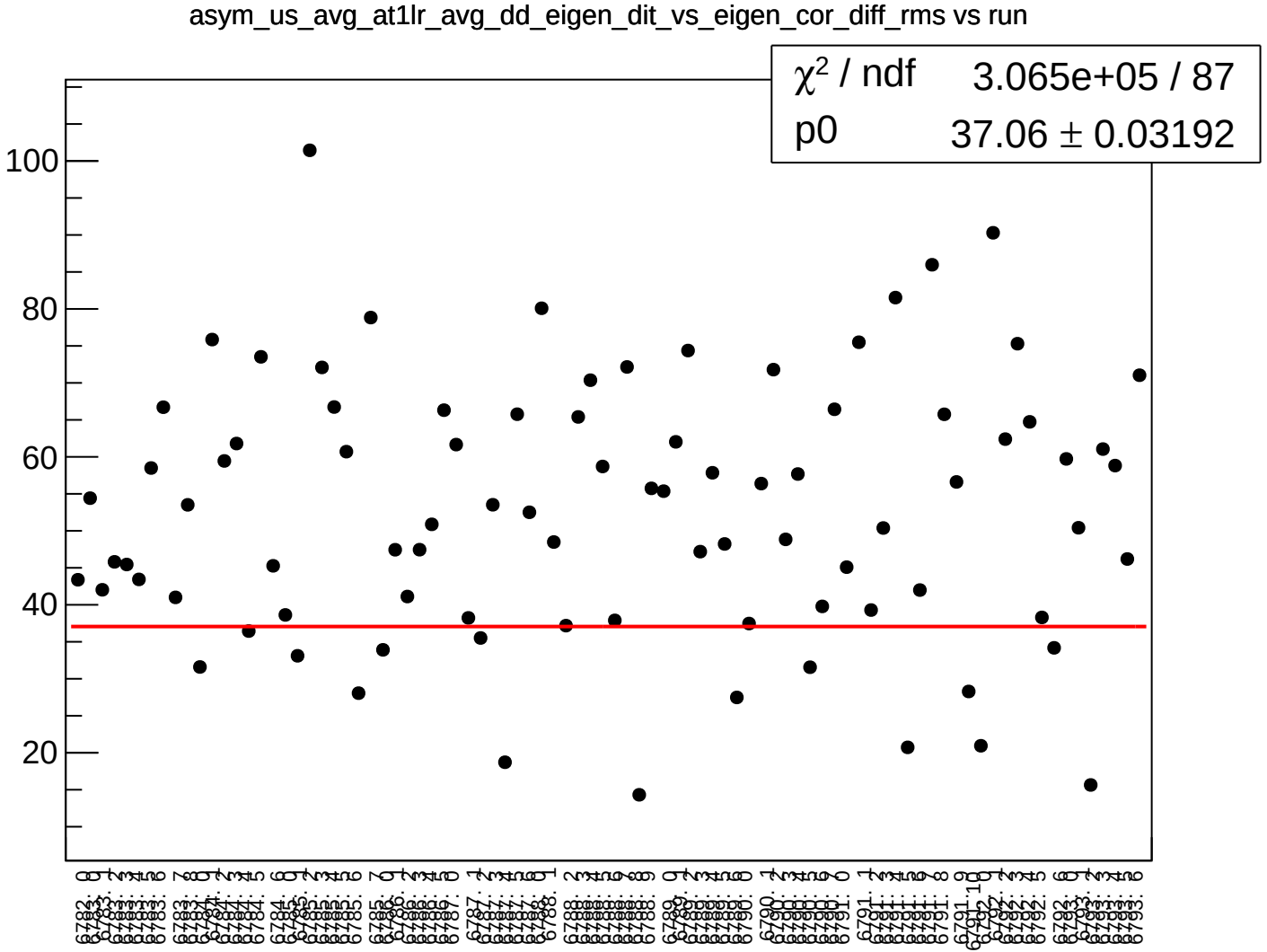

pull1D
Entries 88
Mean −0.01314
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

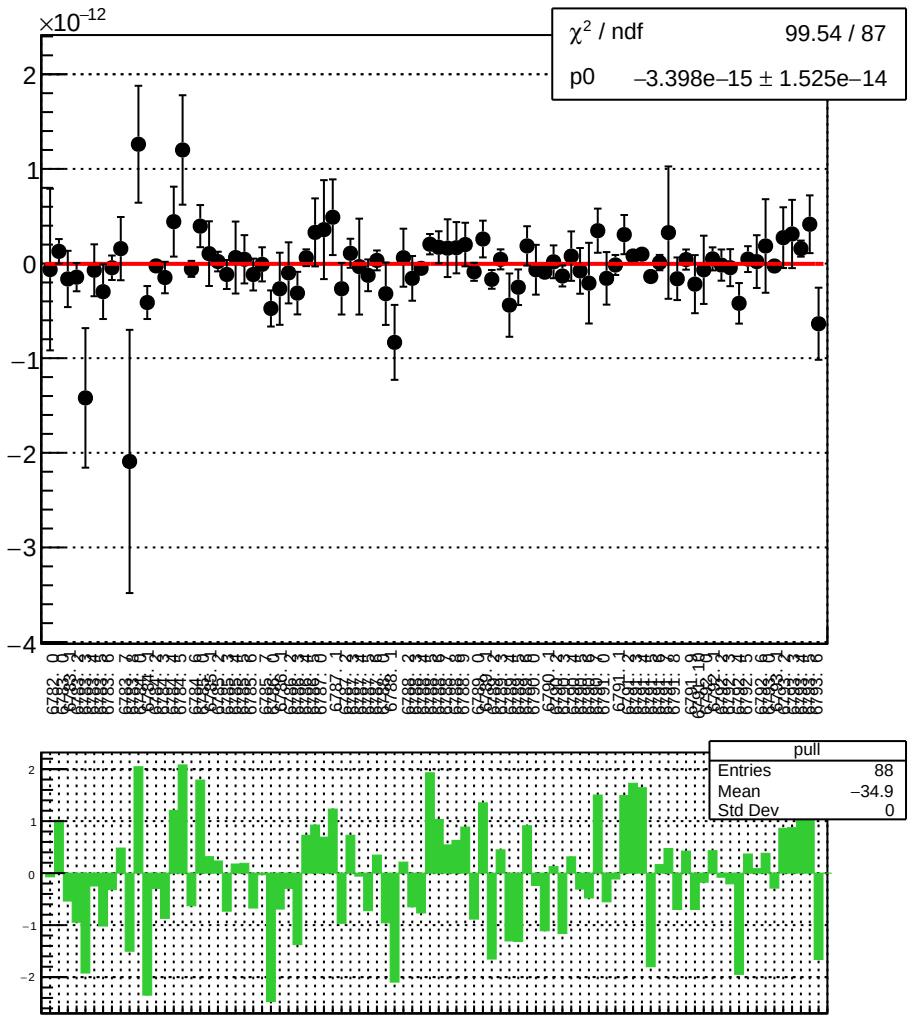

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1783 / 87
p0 0.002416 ± 1.879e−06
0.00265
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225

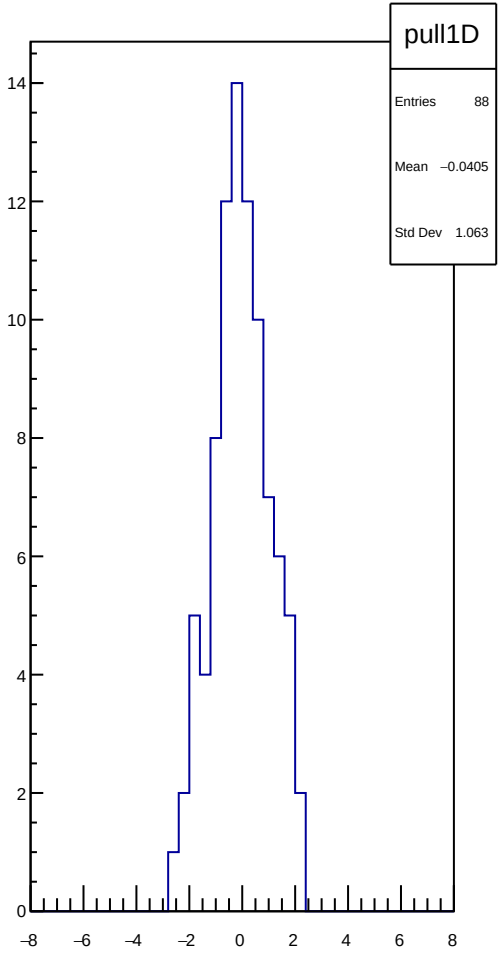

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.23 / 87
p0 −0.02315 ± 0.04514
pull
Entries 88
Mean −340.8
Std Dev 0
pull1D
Entries 88
Mean 0.01505
Std Dev 0.9724

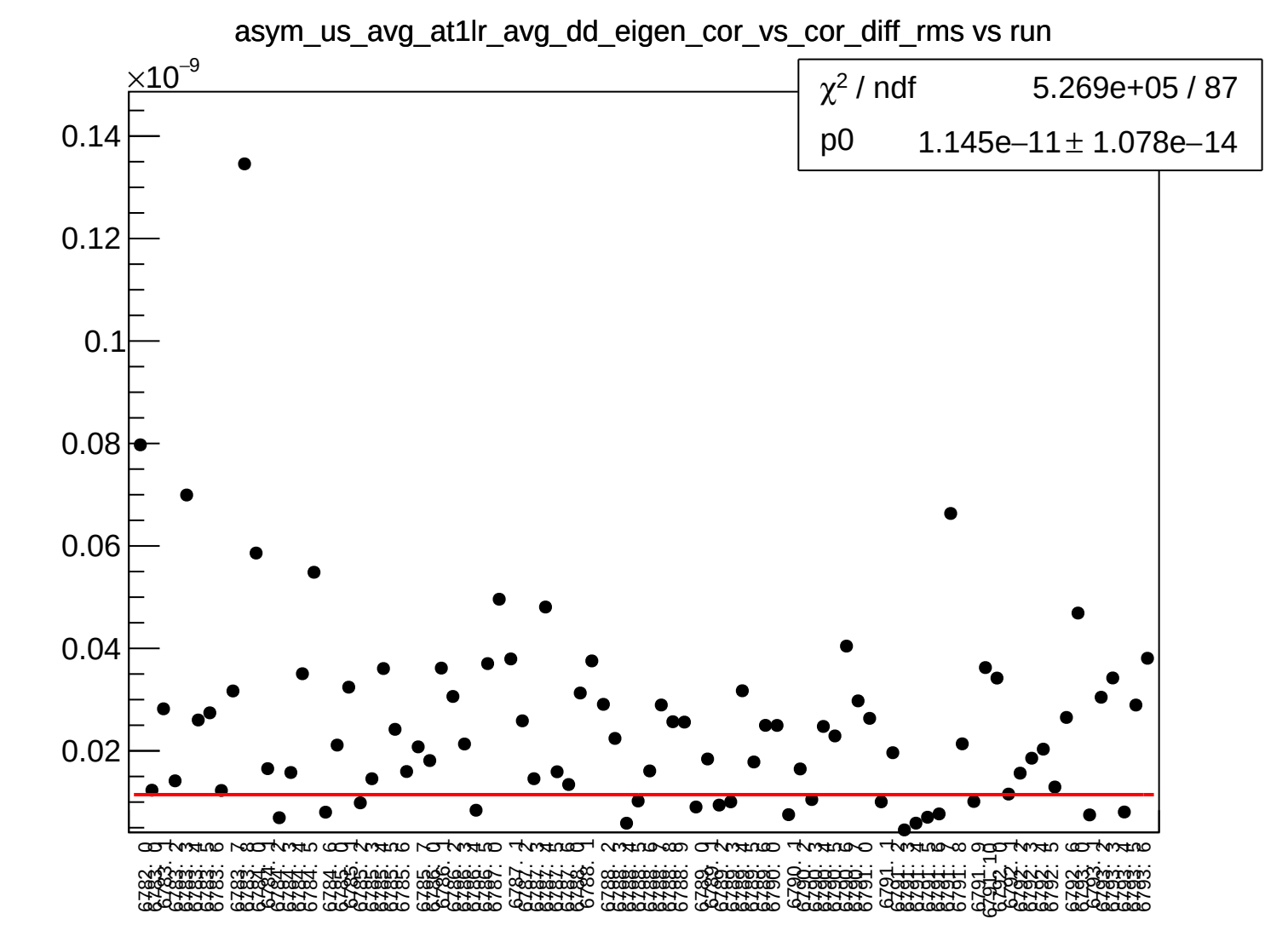

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.065e+05 / 87
p0 37.06 ± 0.03192
100
80
60
40
20

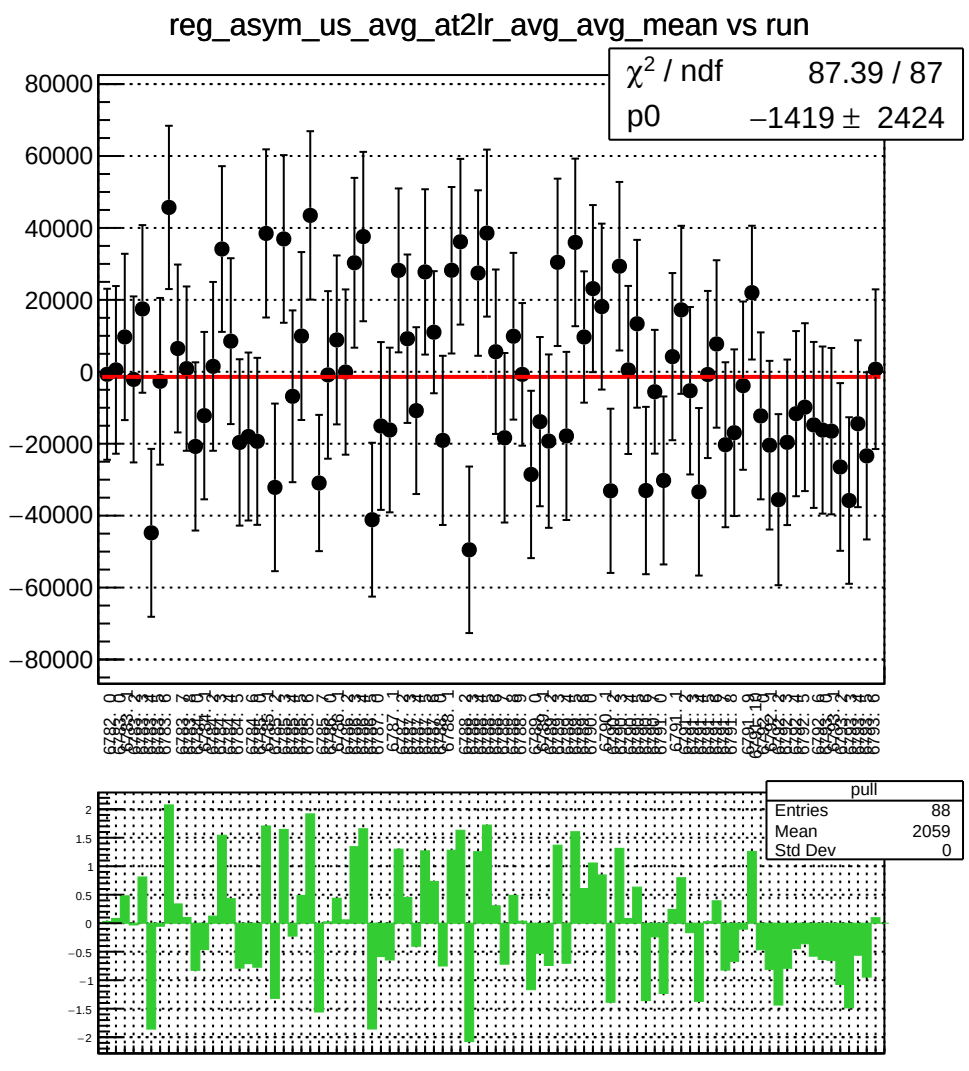

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.23 / 87
p0 −0.02315 ± 0.04514
pull
Entries 88
Mean −340.8
Std Dev 0
pull1D
Entries 88
Mean 0.01505
Std Dev 0.9724

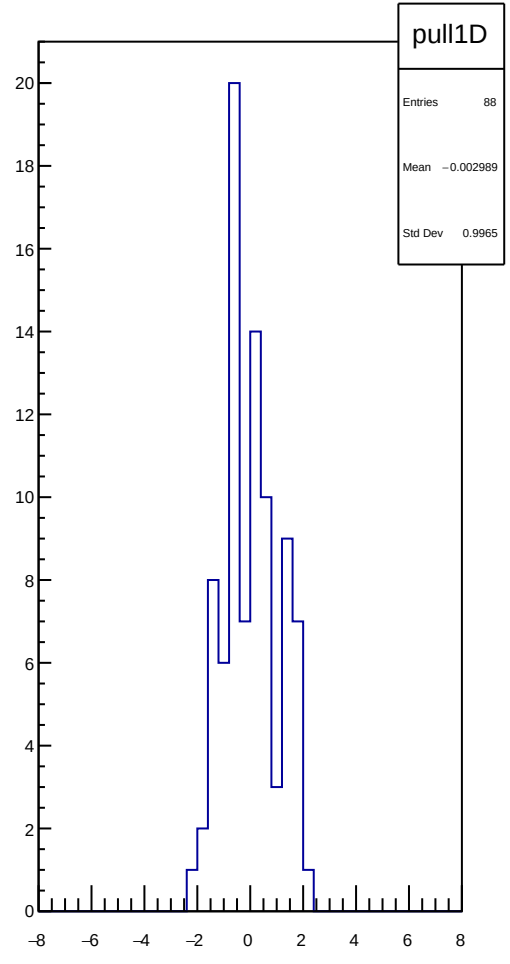

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.065e+05 / 87
p0 37.06 ± 0.03192
100
80
60
40
20

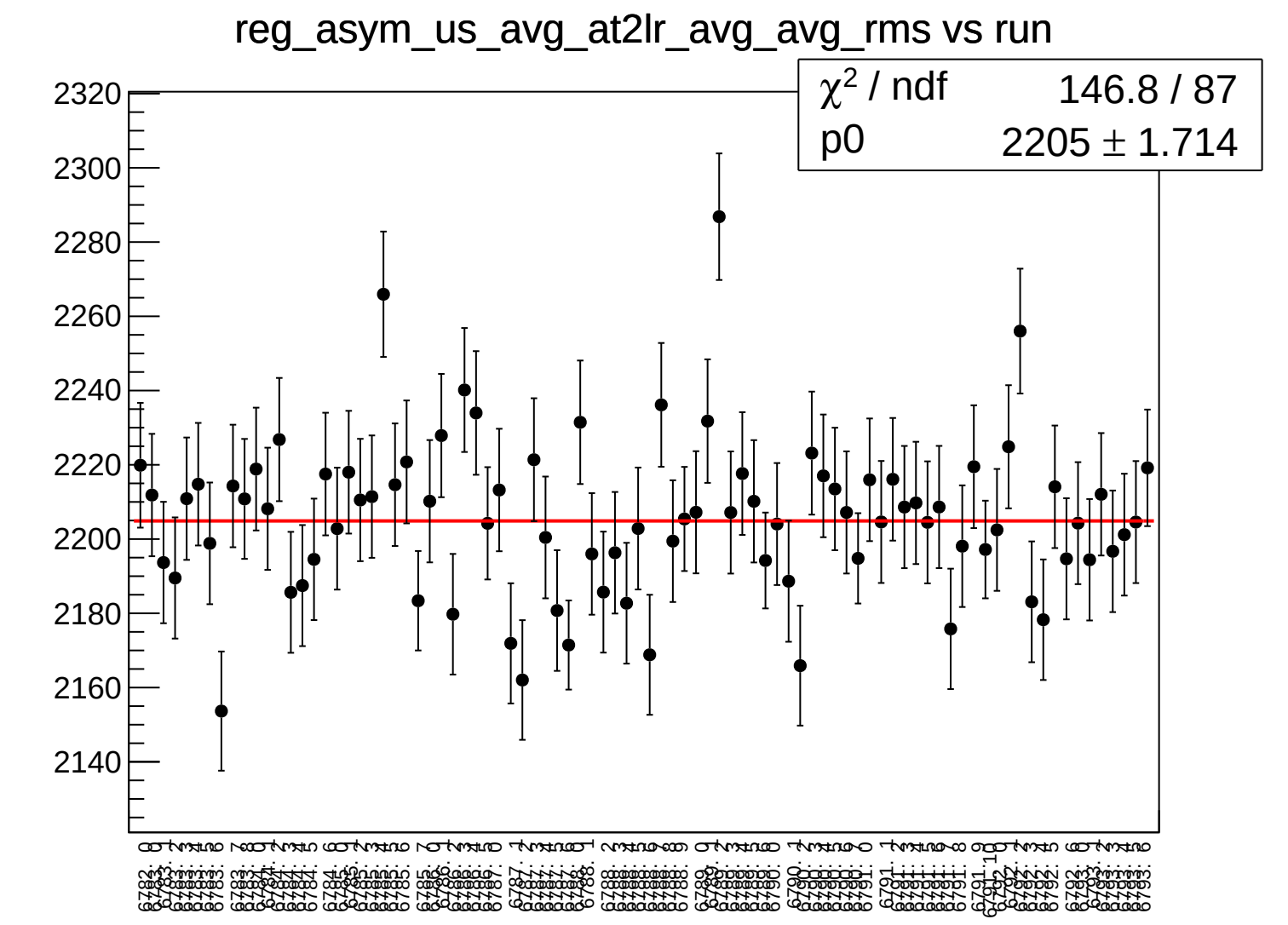

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.54 / 87
p0 −3.398e−15 ± 1.525e−14
pull
Entries 88
Mean −34.9
Std Dev 0

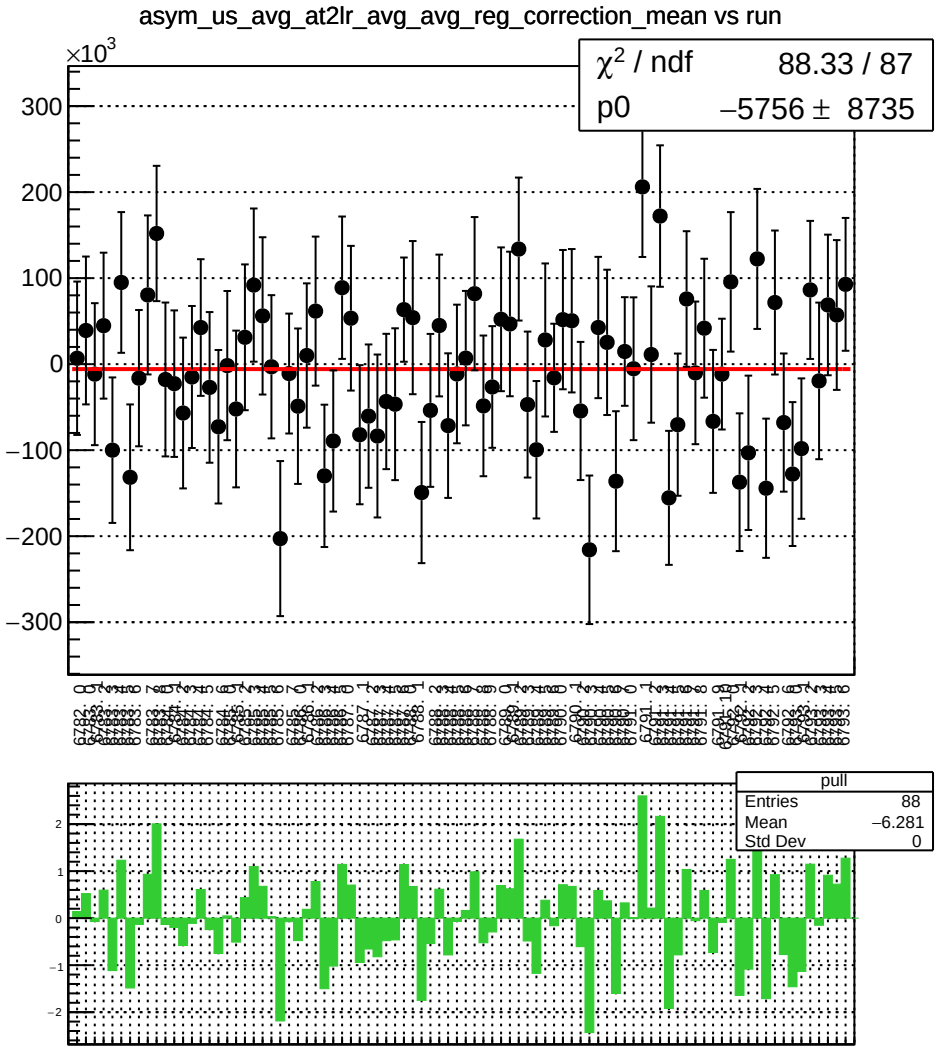

pull1D
Entries 88
Mean −0.0405
Std Dev 1.063

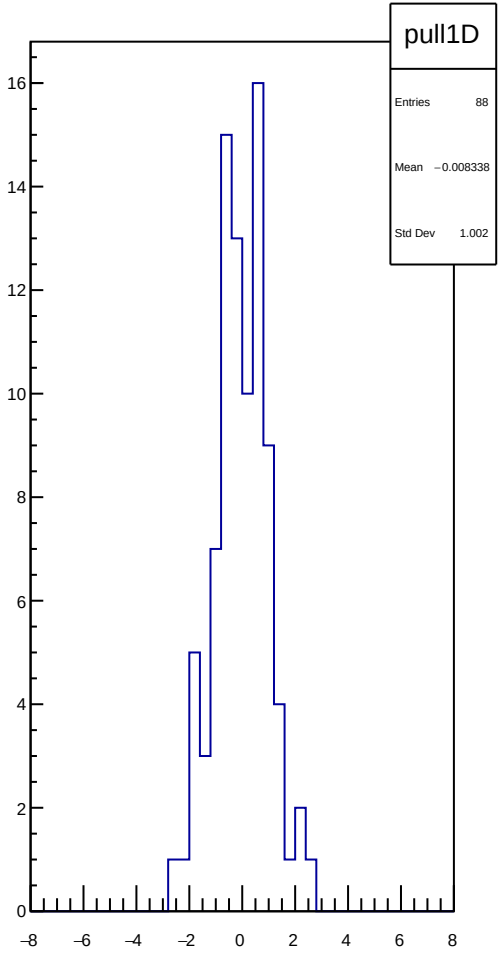

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.269e+05 / 87
p0 1.145e−11 ± 1.078e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

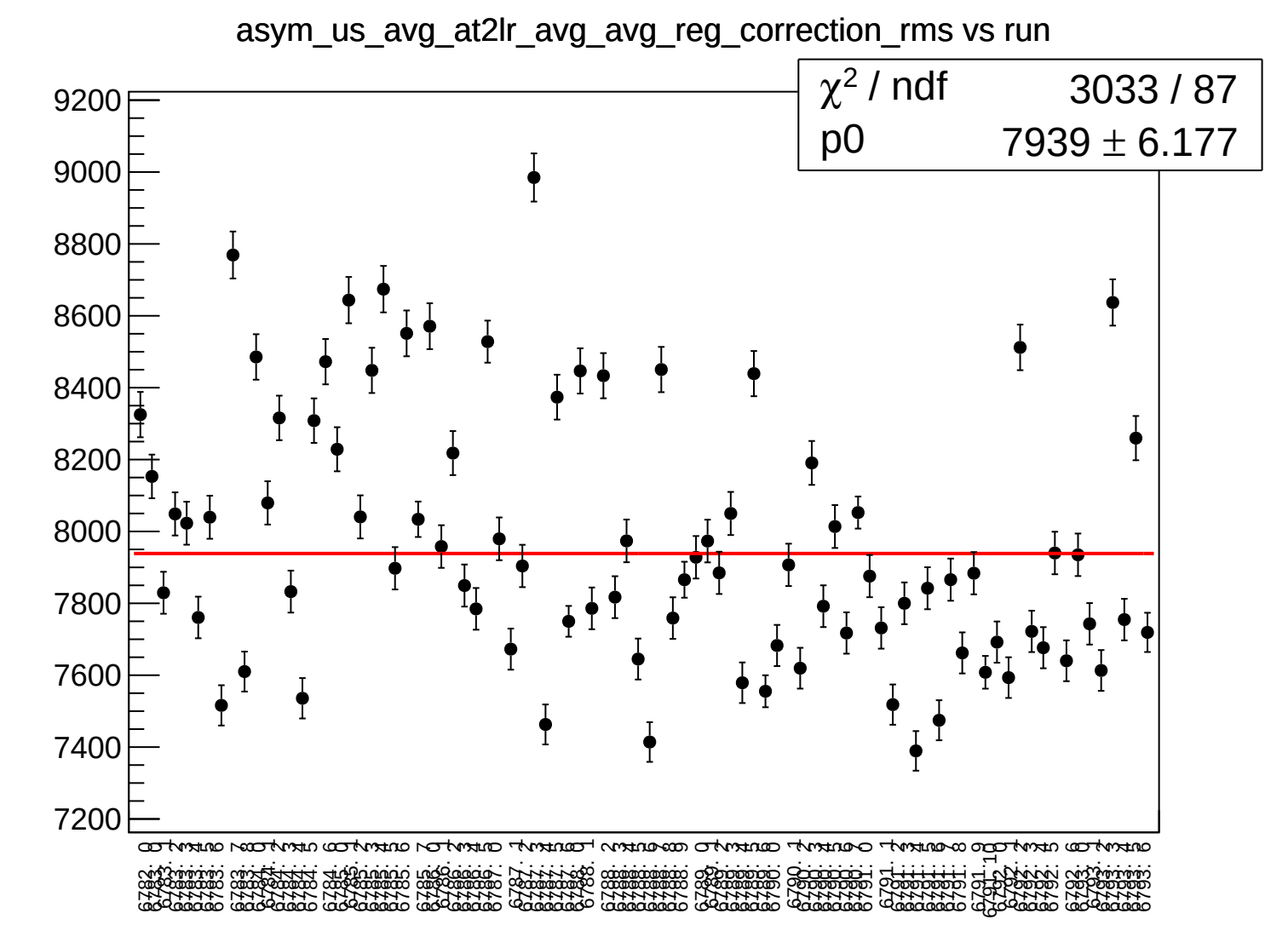

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 87.39 / 87
p0 −1419 ± 2424
pull
Entries 88
Mean 2059
Std Dev 0

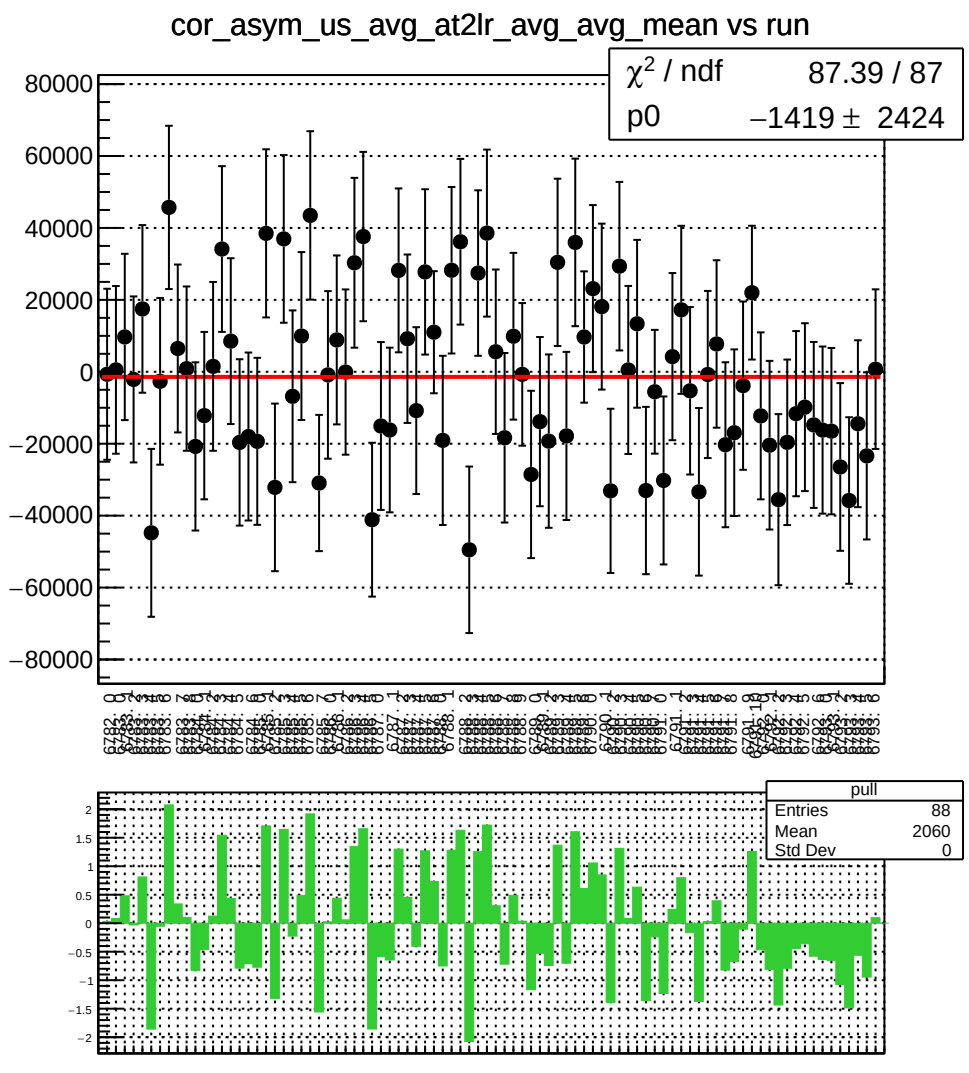

pull1D
Entries 88
Mean −0.002989
Std Dev 0.9965

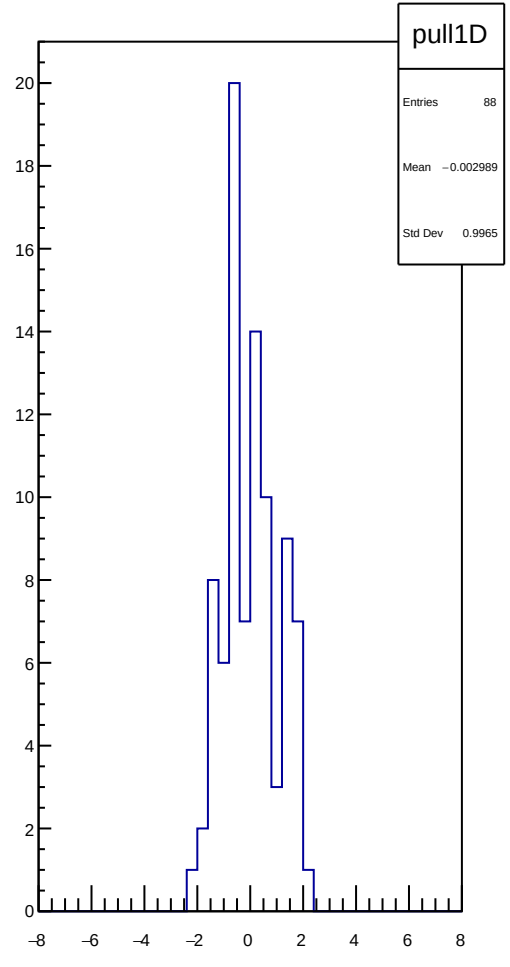

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 146.8 / 87
p0 2205 ± 1.714
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

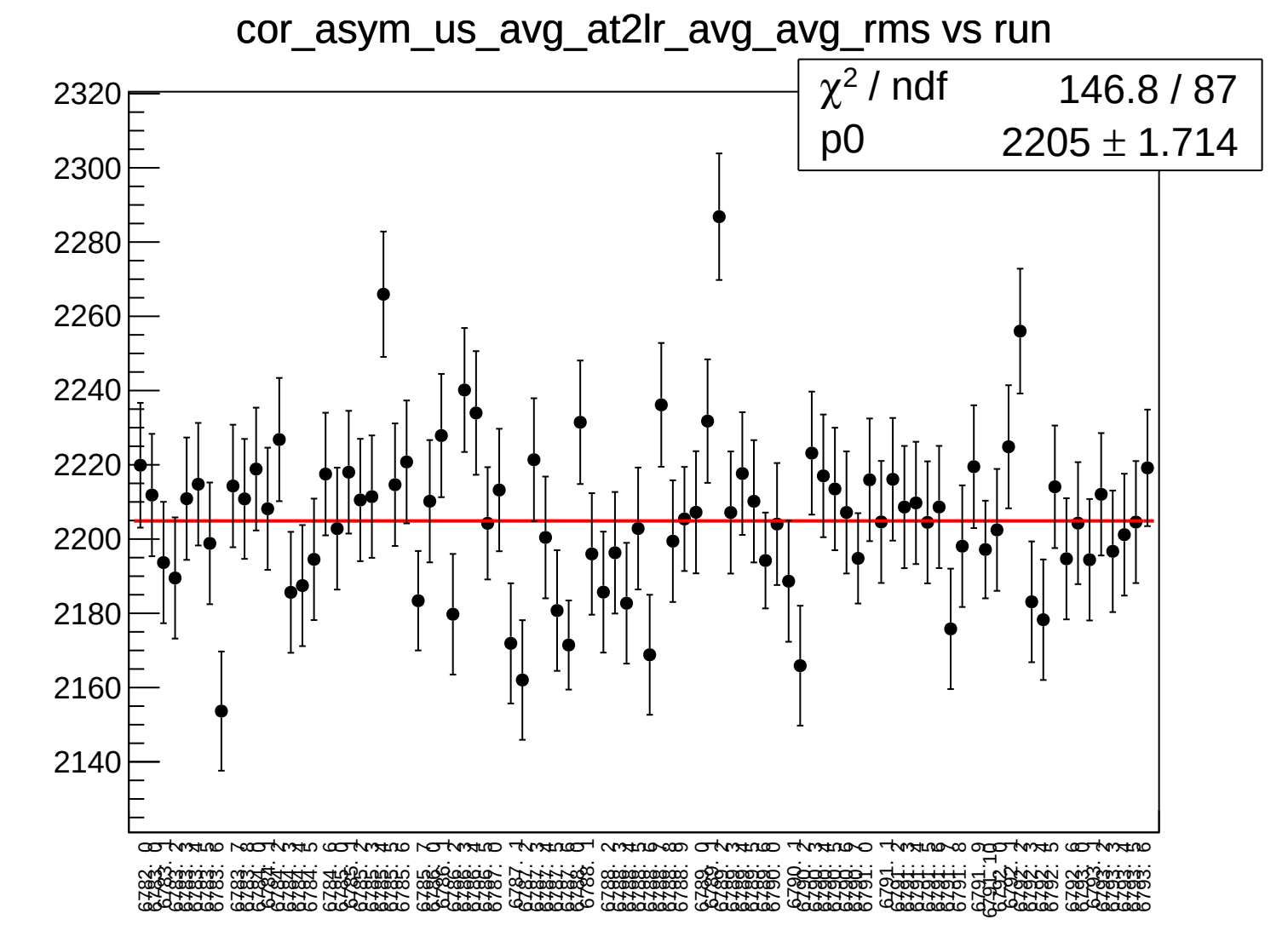

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.33 / 87
p0 −5756 ± 8735
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −6.281
Std Dev 0
2
1
0
−1
−2

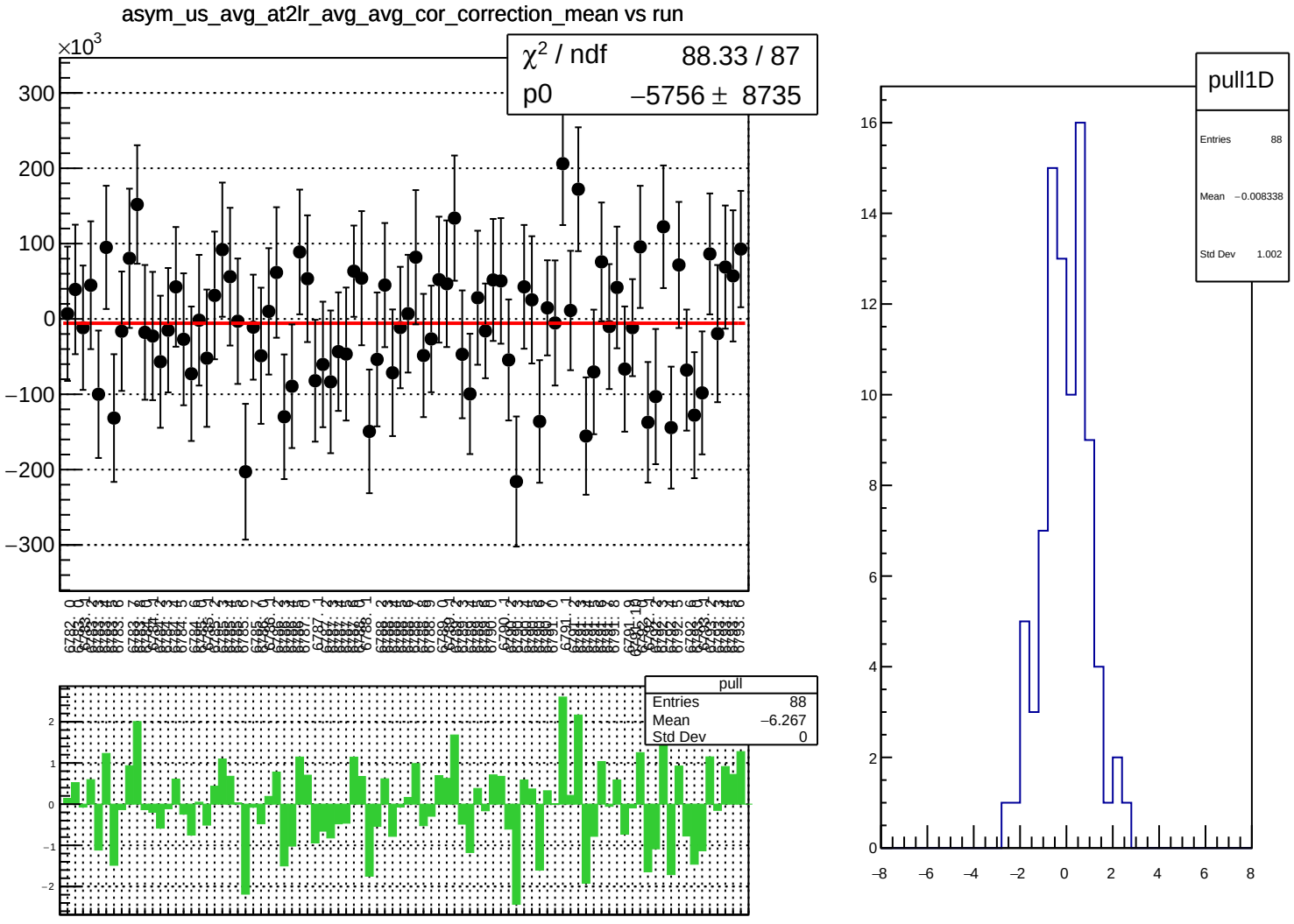

pull1D
Entries 88
Mean −0.008338
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

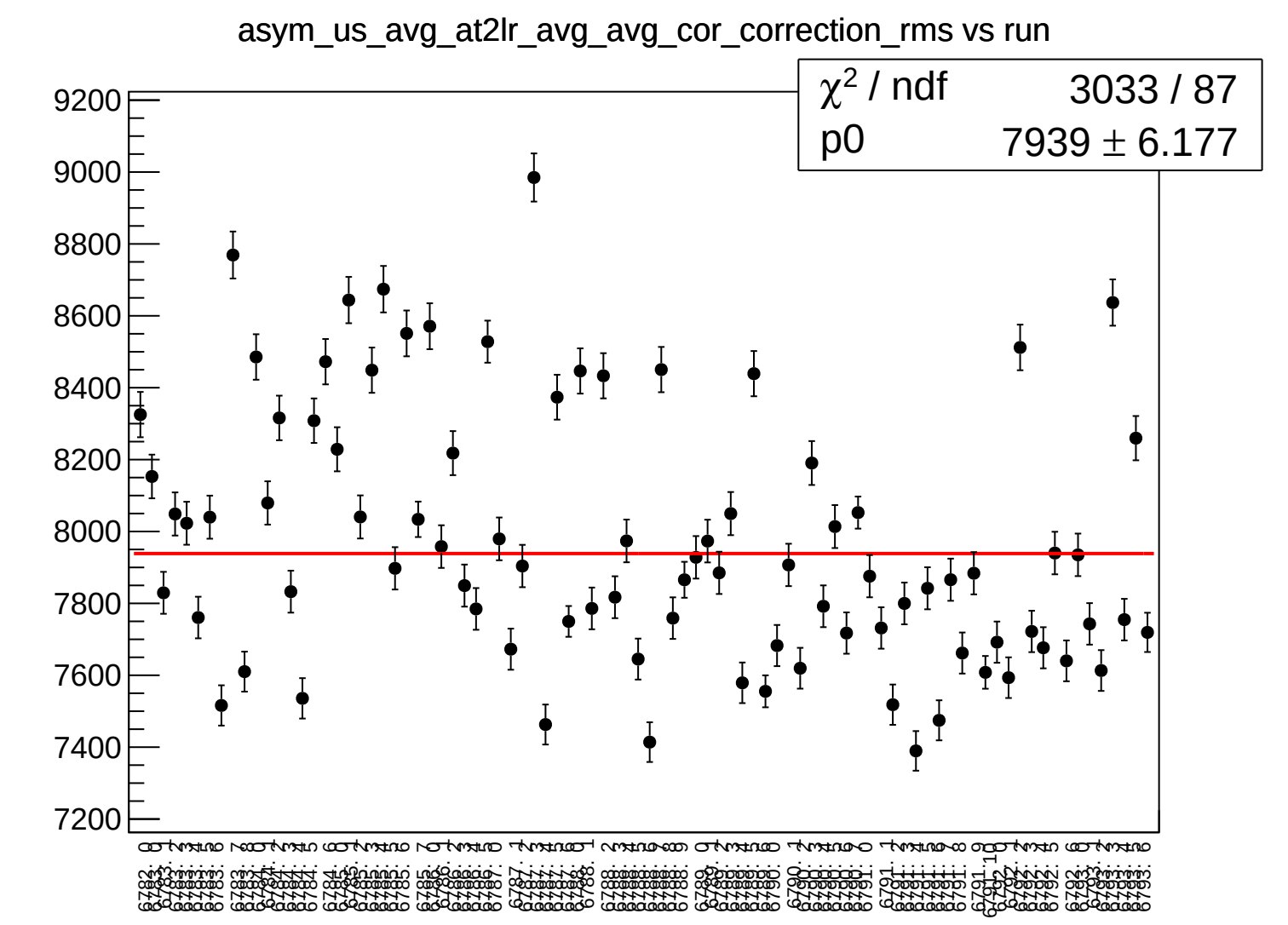

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3033 / 87
p0 7939 ± 6.177
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

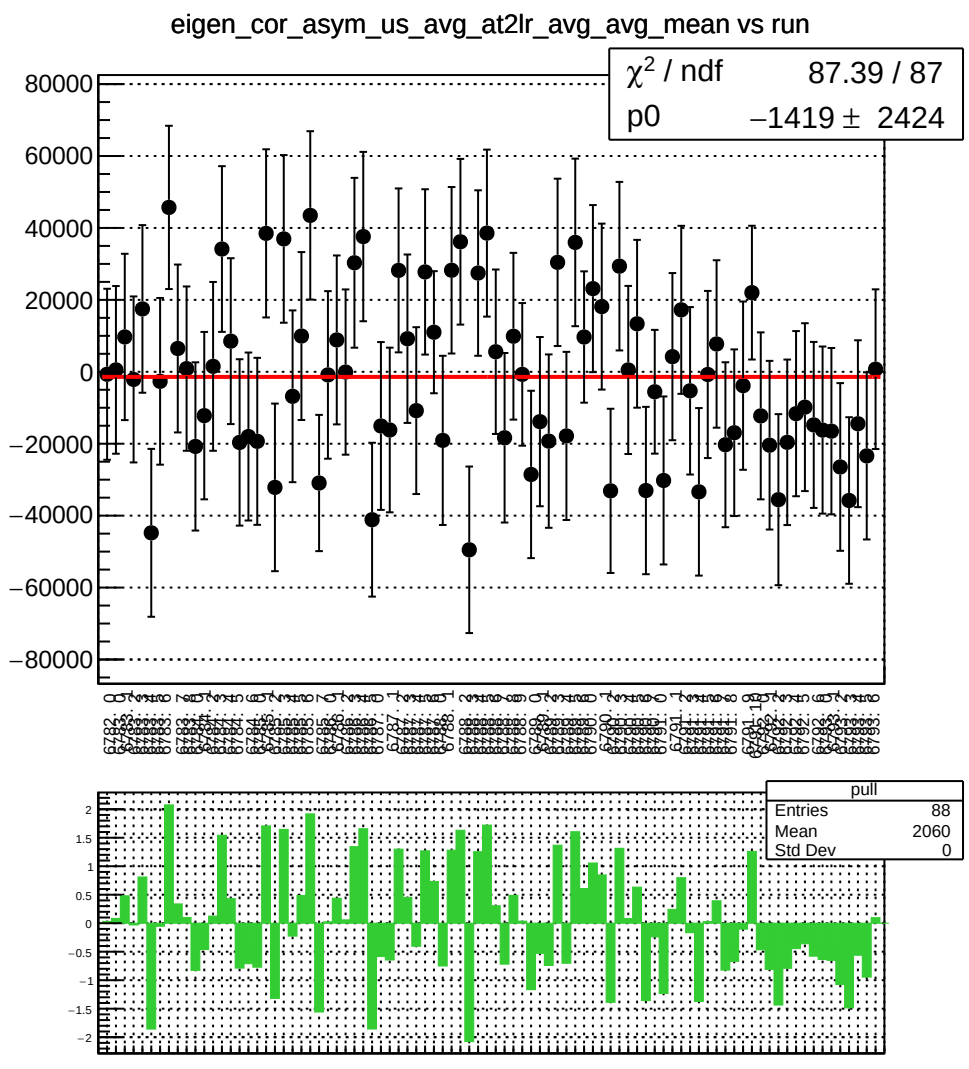

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 87.39 / 87
p0 −1419 ± 2424
pull
Entries 88
Mean 2060
Std Dev 0

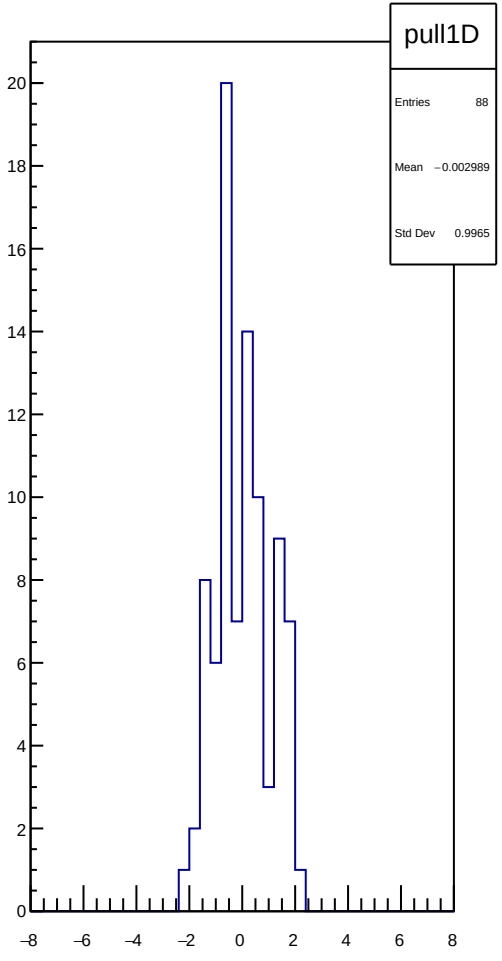

pull1D
Entries 88
Mean −0.002989
Std Dev 0.9965

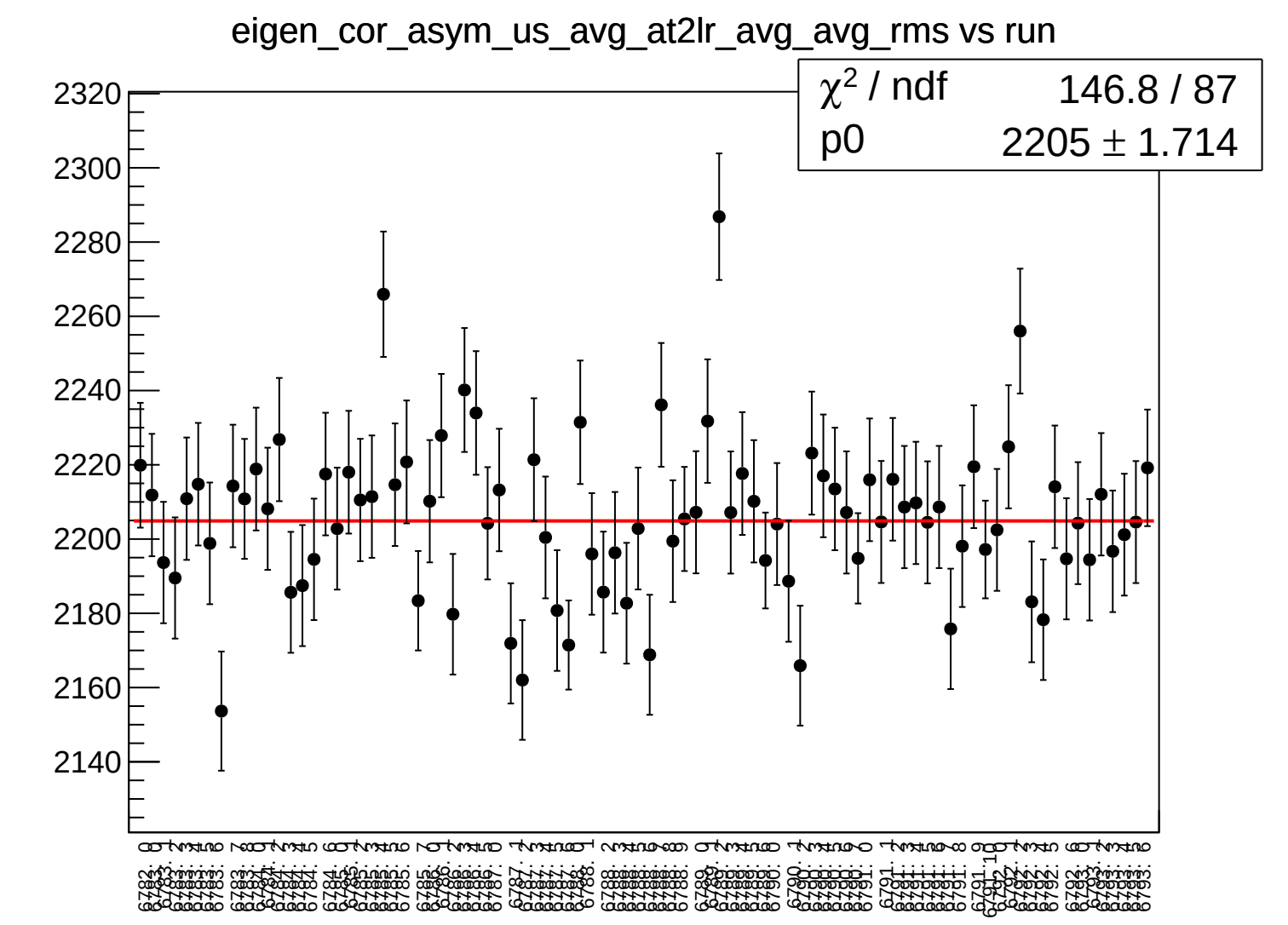

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 146.8 / 87
p0 2205 ± 1.714
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

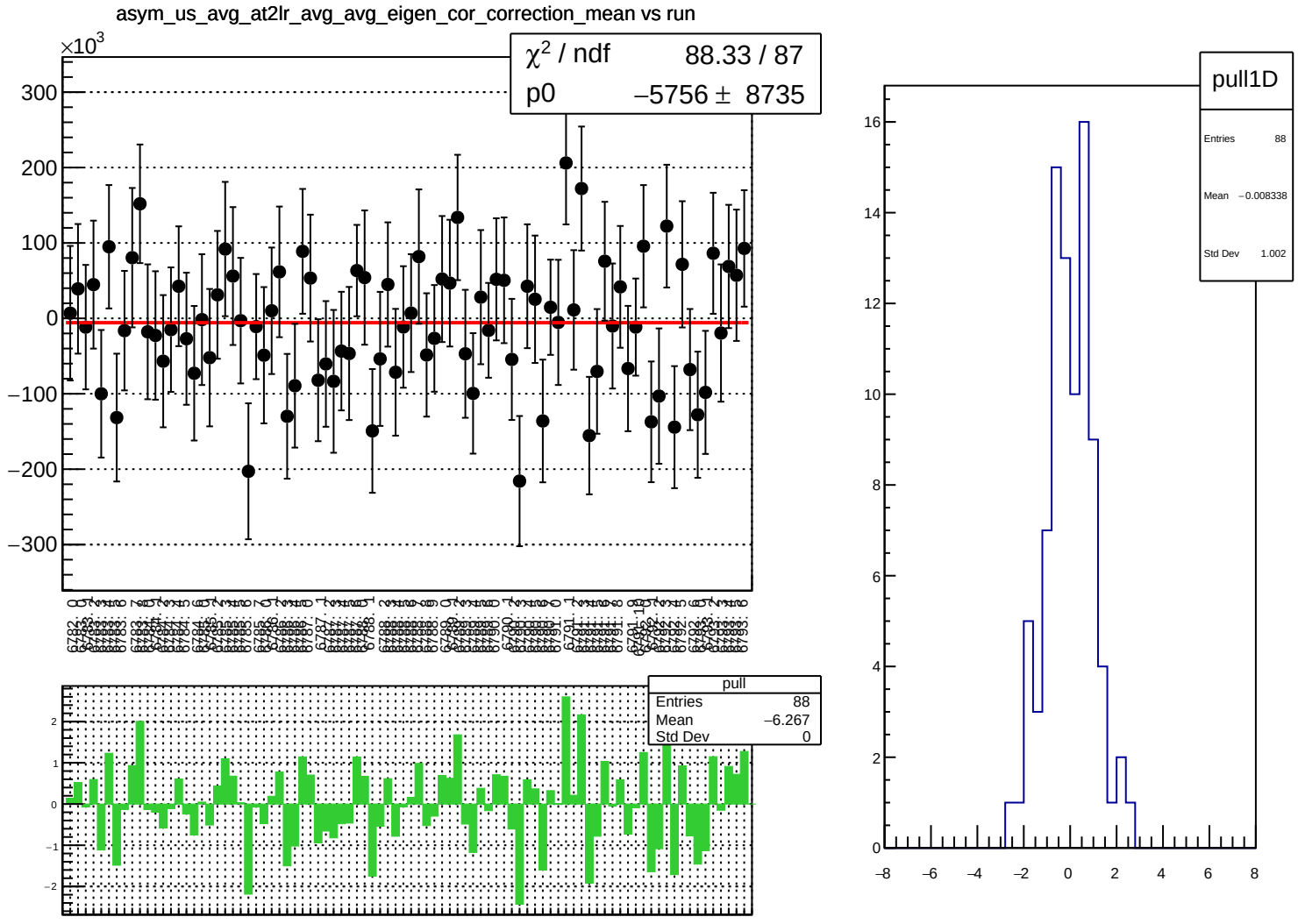

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.33 / 87
p0 −5756 ± 8735
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −6.267
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008338
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

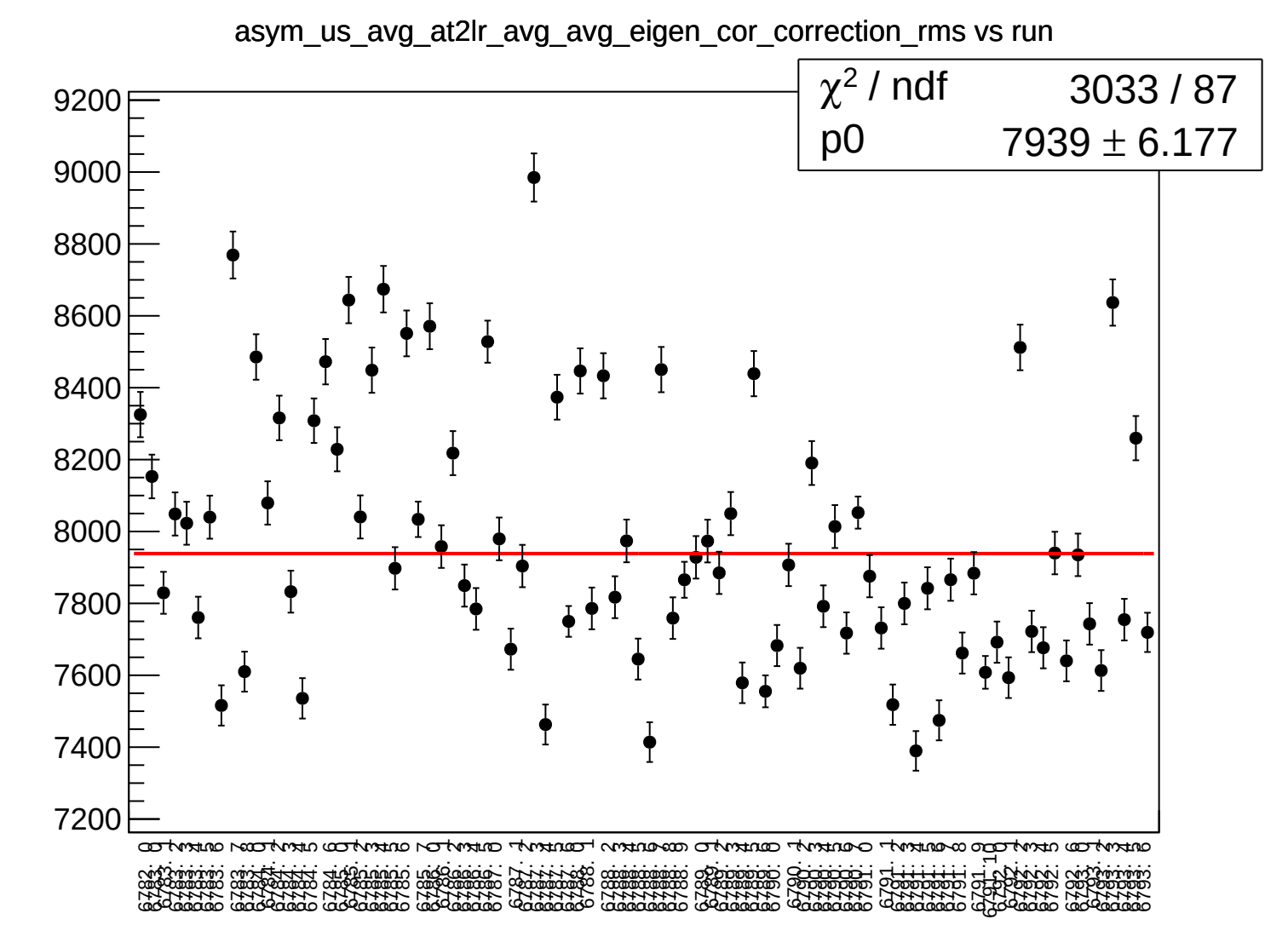

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3033 / 87
p0 7939 ± 6.177
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

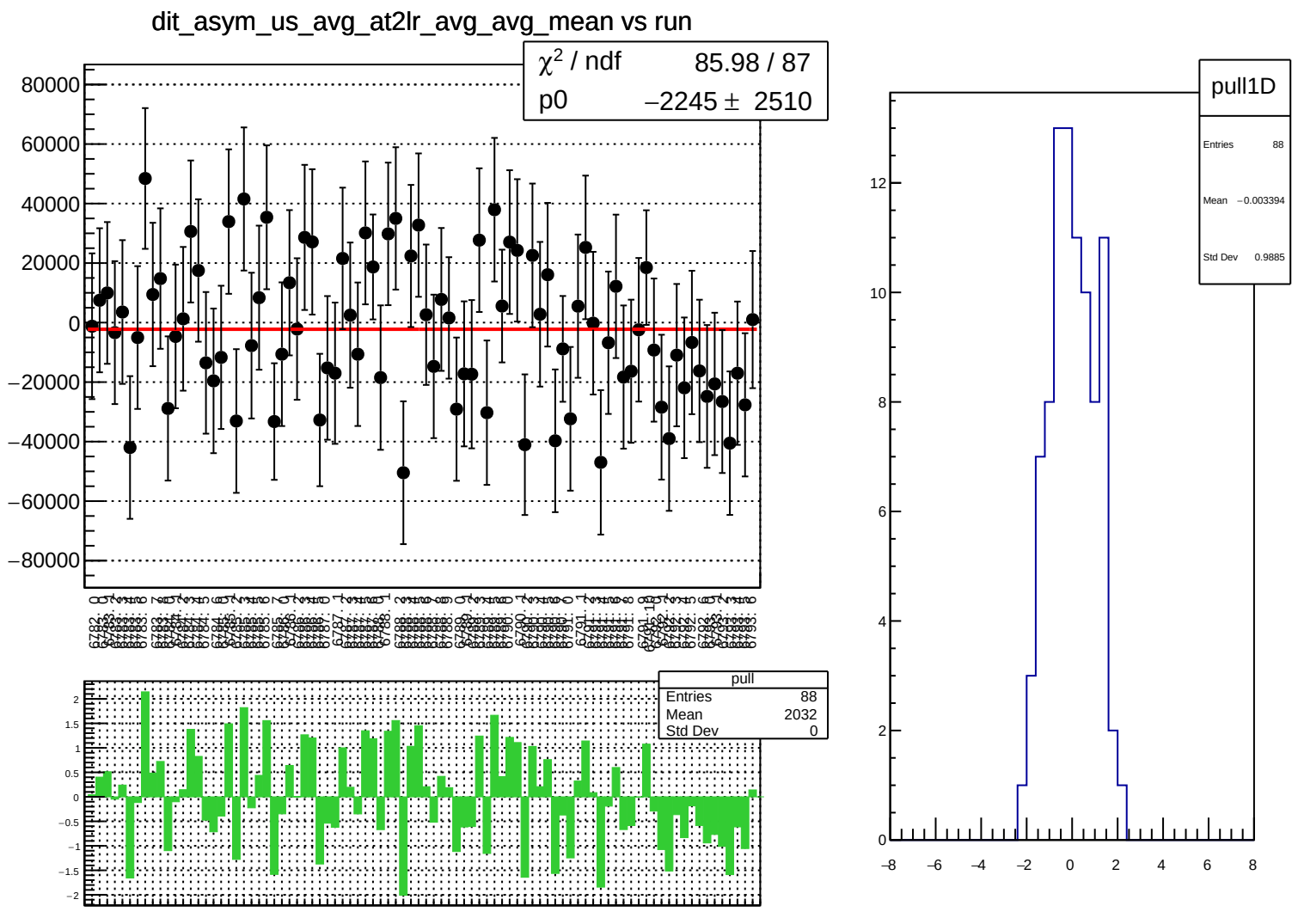

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 87.39 / 87
p0 −1419 ± 2424
pull
Entries 88
Mean 2060
Std Dev 0

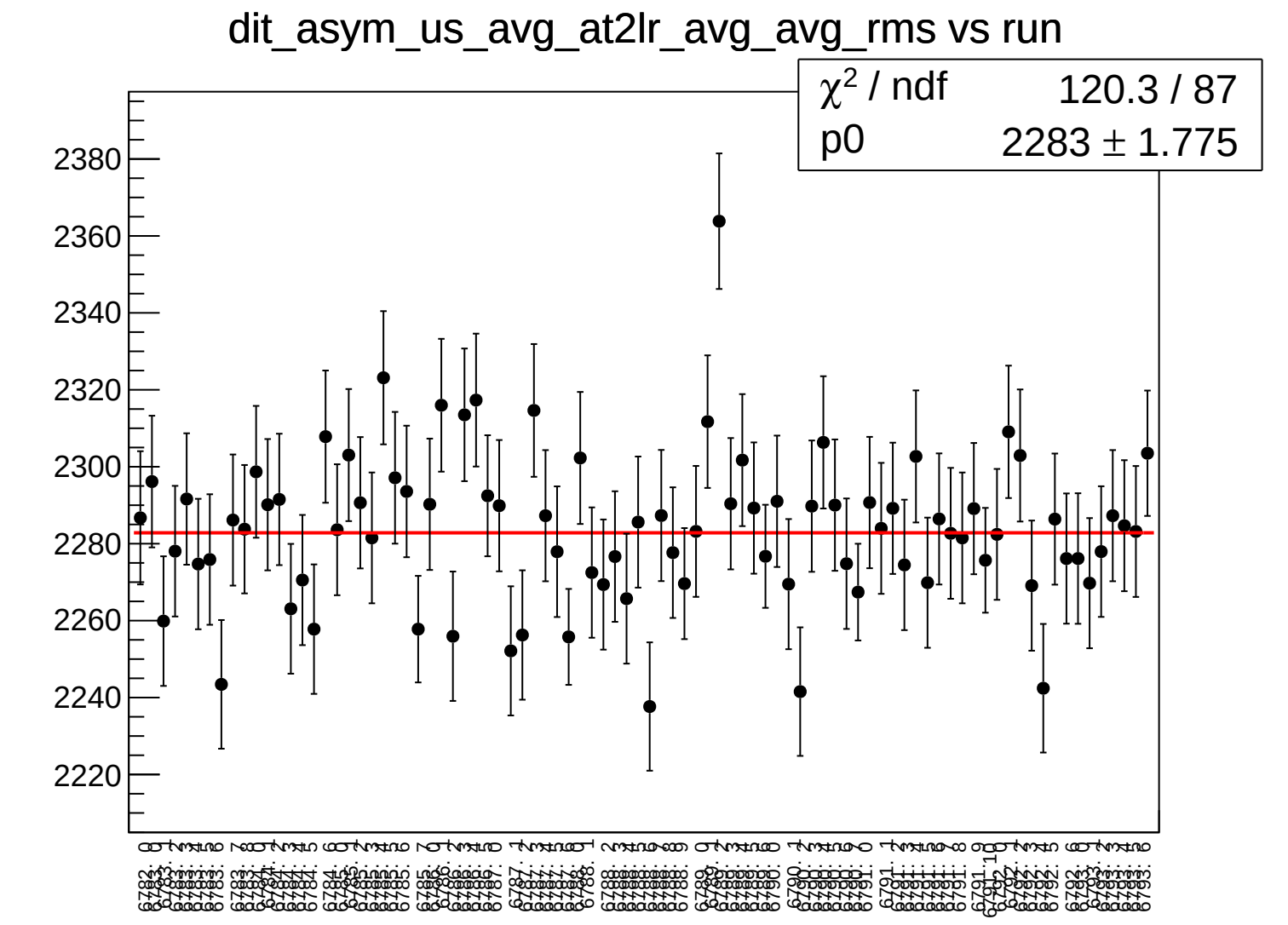

pull1D
Entries 88
Mean −0.002989
Std Dev 0.9965

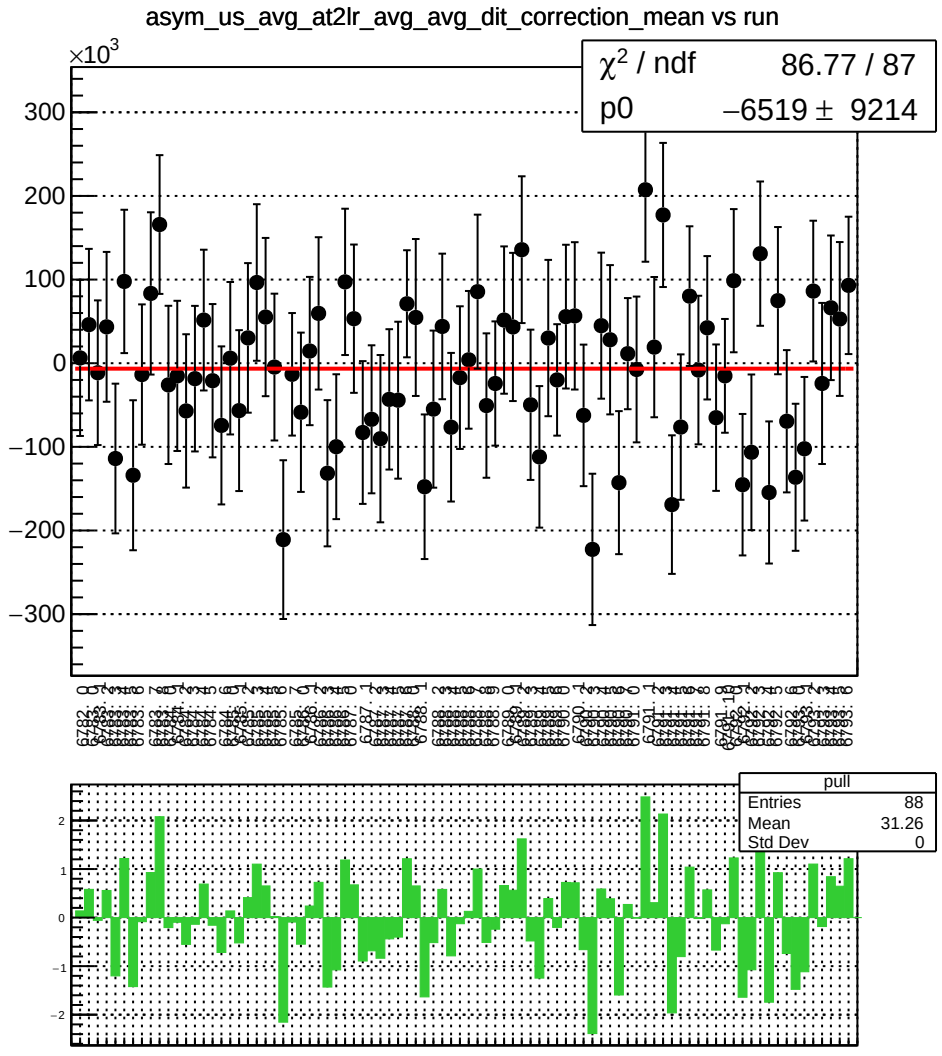

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 146.8 / 87
p0 2205 ± 1.714
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

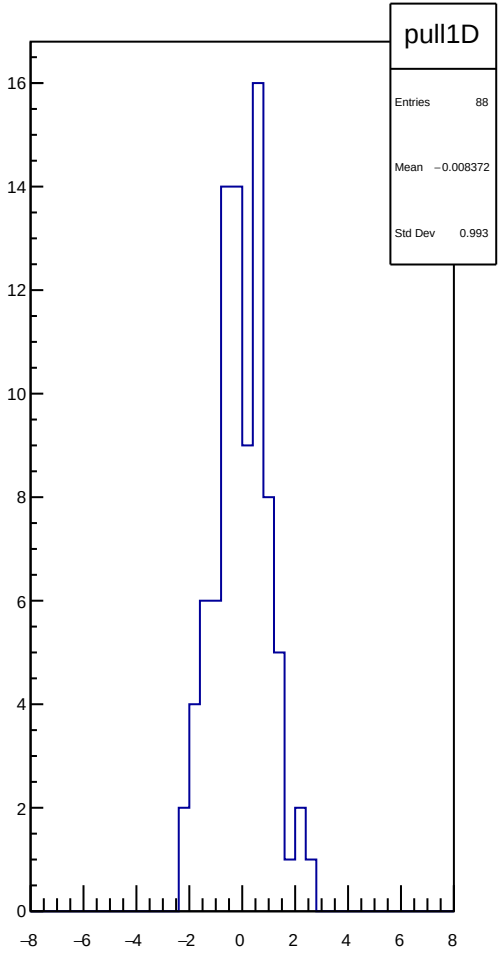

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.33 / 87
p0 −5756 ± 8735
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −6.267
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008338
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

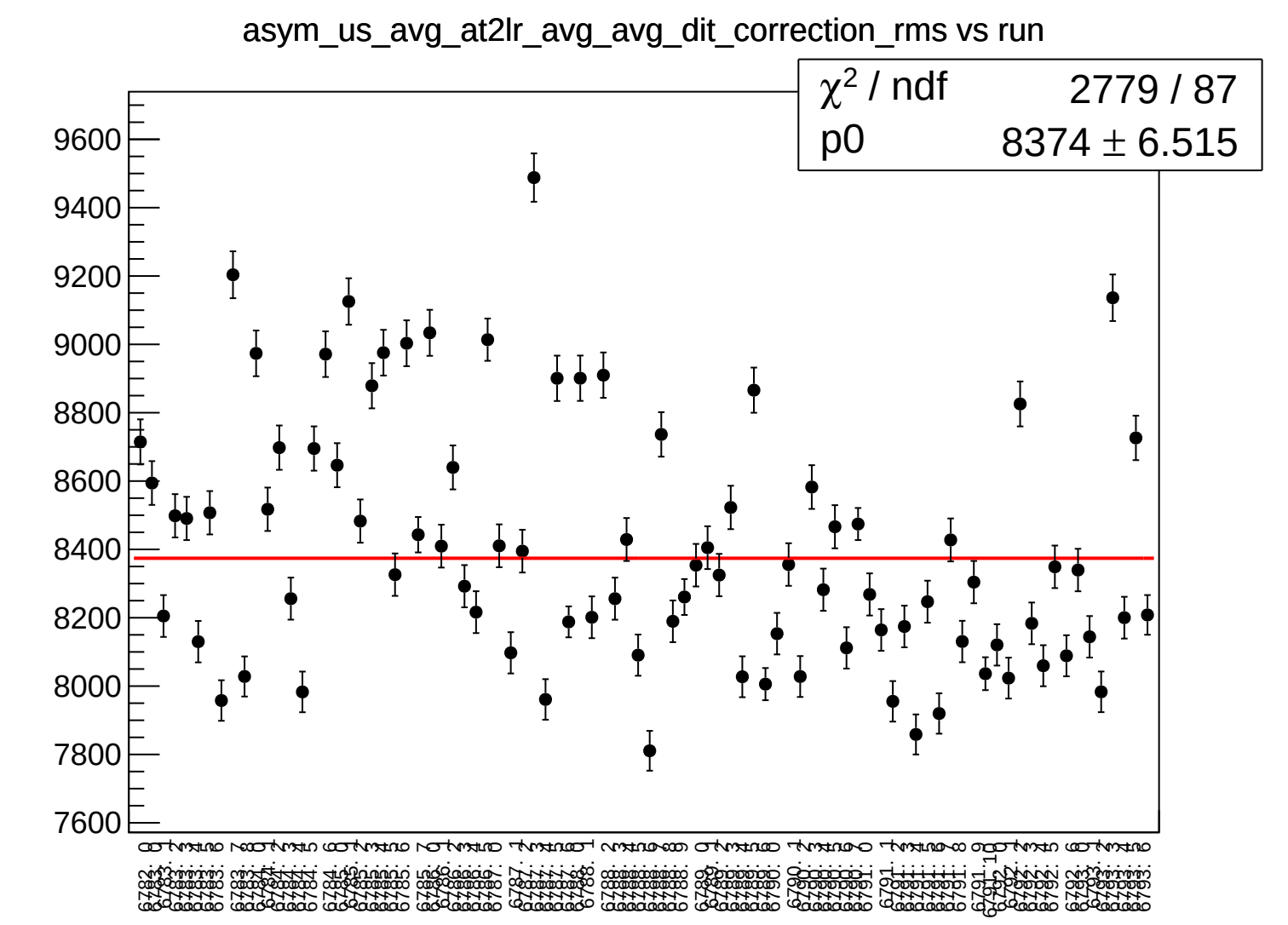

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3033 / 87
p0 7939 ± 6.177
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

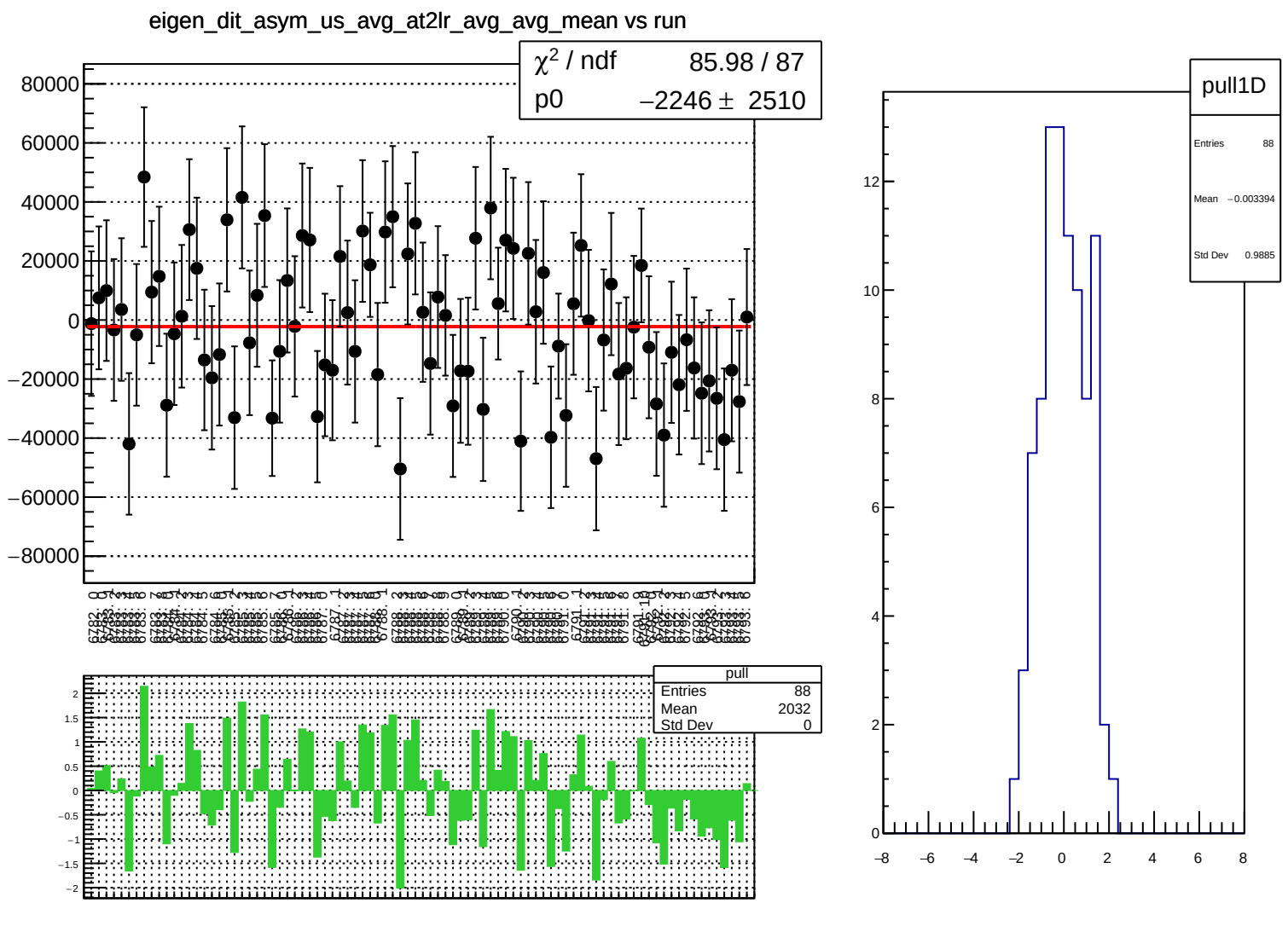

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 85.98 / 87
p0 −2245 ± 2510
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 2032
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.003394
Std Dev 0.9885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

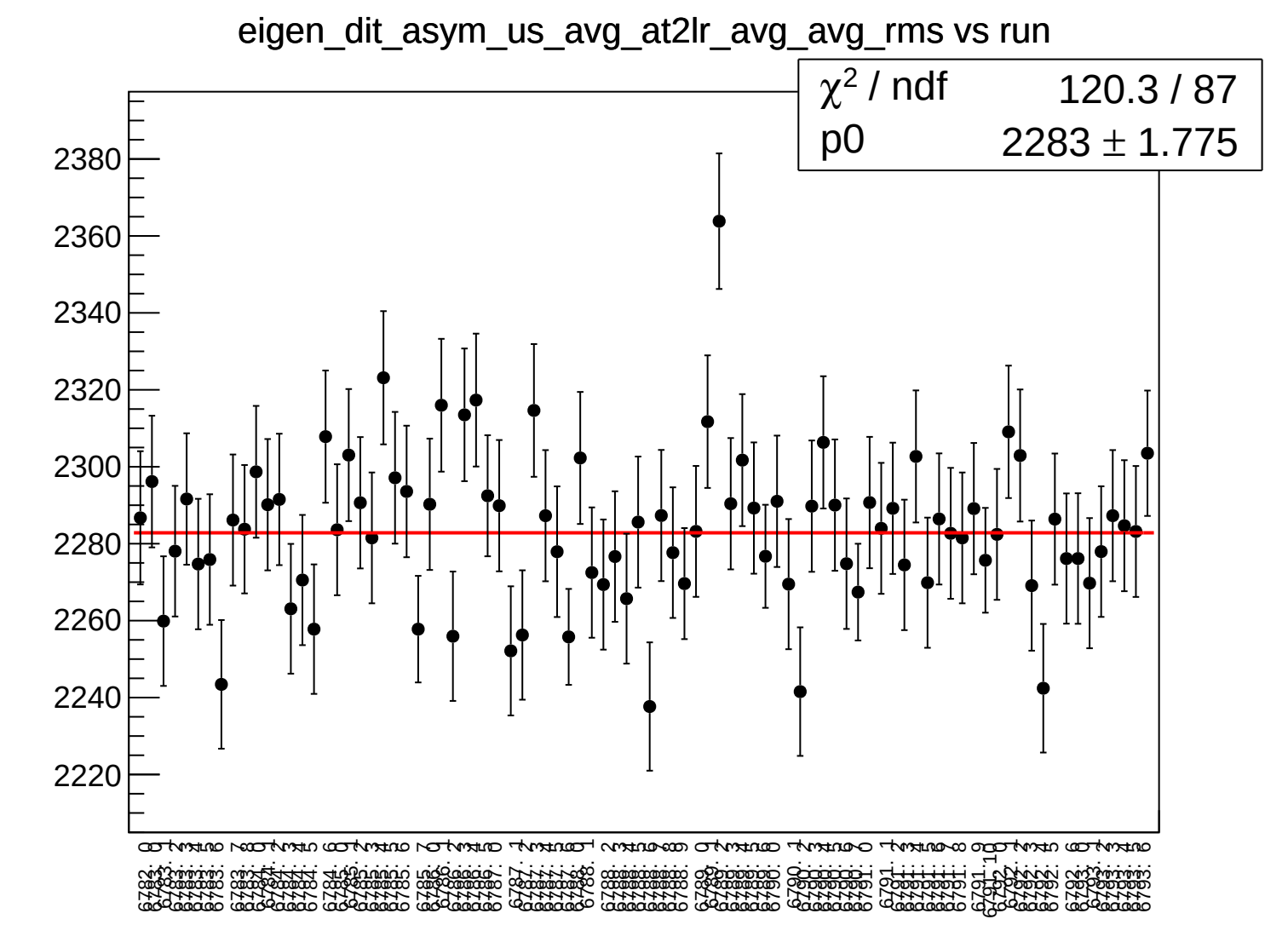

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 120.3 / 87
p0 2283 ± 1.775
2380
2360
2340
2320
2300
2280
2260
2240
2220

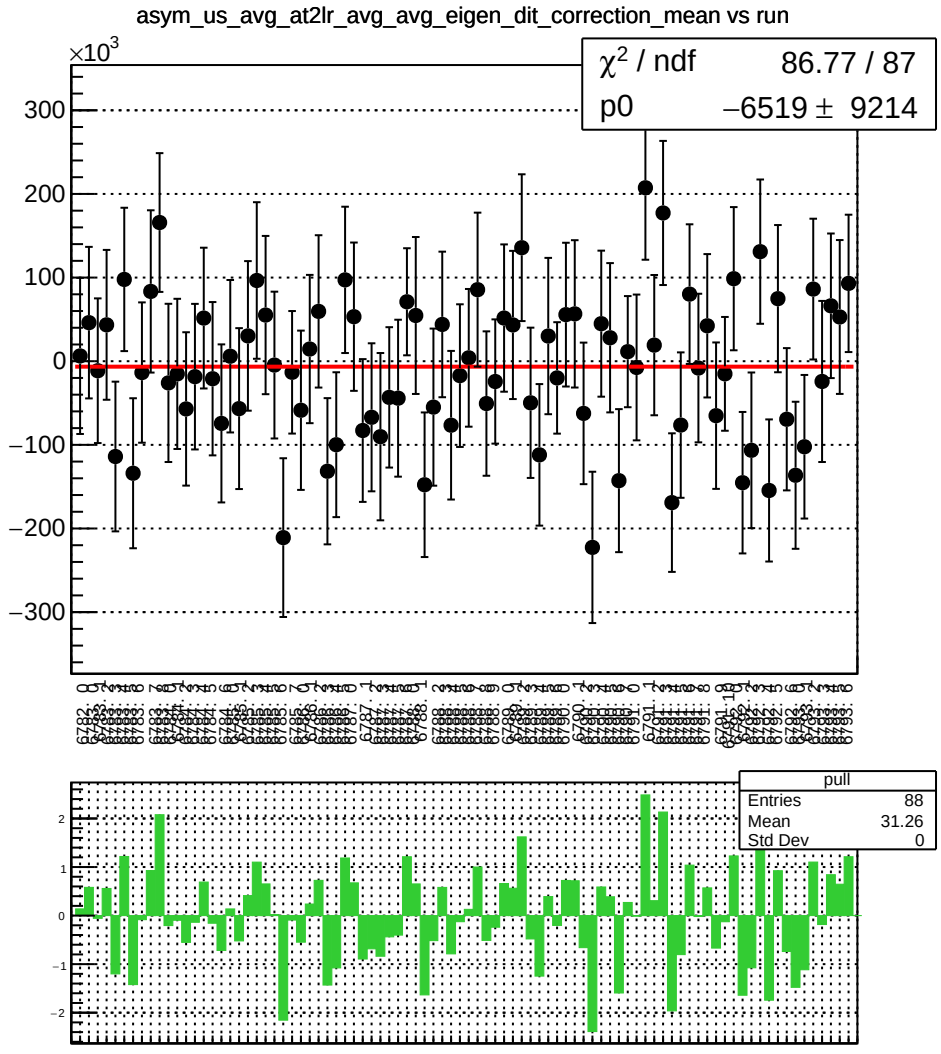

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.77 / 87
p0 −6519 ± 9214
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 31.26
Std Dev 0
2
1
0
−1
−2

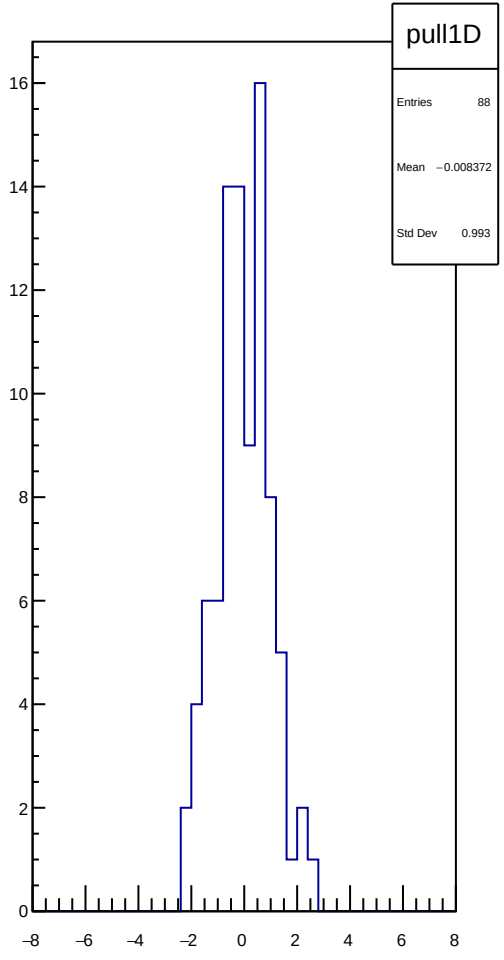

pull1D
Entries 88
Mean −0.008372
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

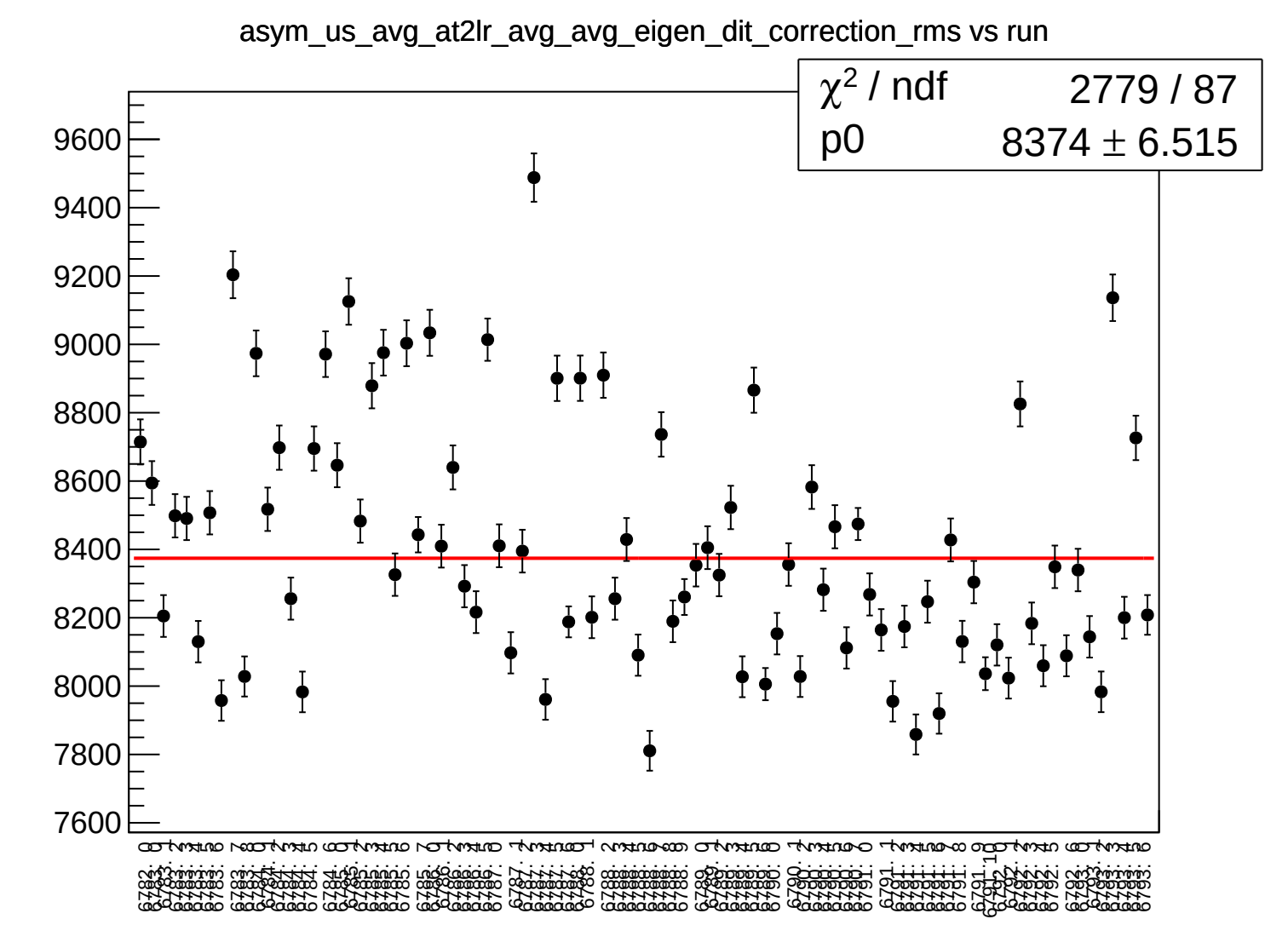

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2779 / 87
p0 8374 ± 6.515
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

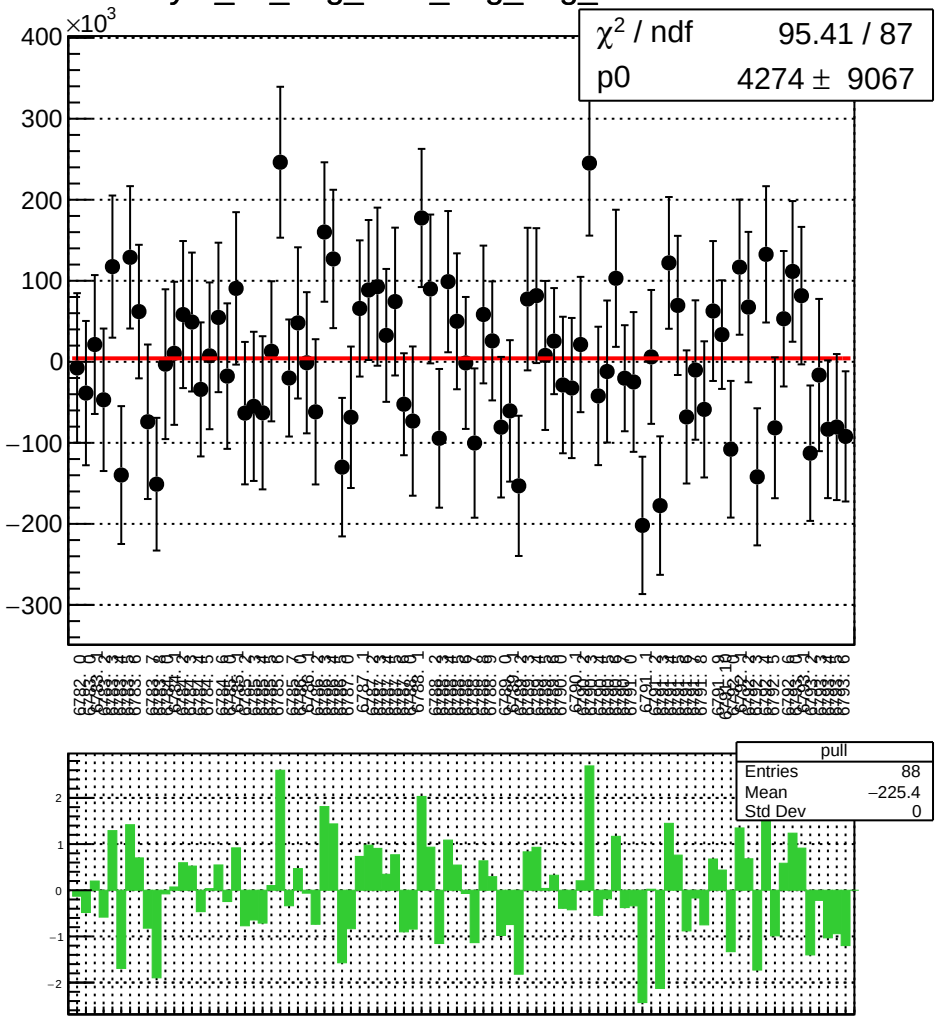

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 85.98 / 87
p0 −2246 ± 2510
pull
Entries 88
Mean 2032
Std Dev 0
pull1D
Entries 88
Mean −0.003394
Std Dev 0.9885

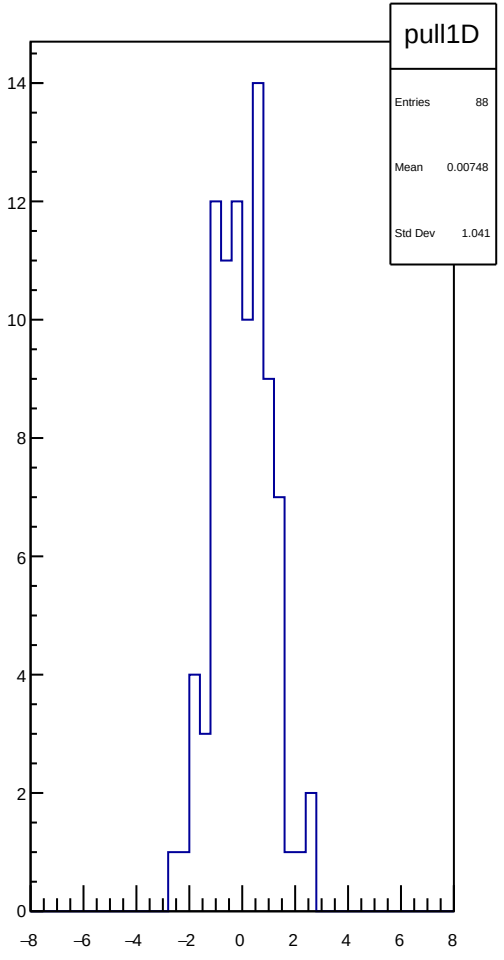

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 120.3 / 87
p0 2283 ± 1.775
2380
2360
2340
2320
2300
2280
2260
2240
2220

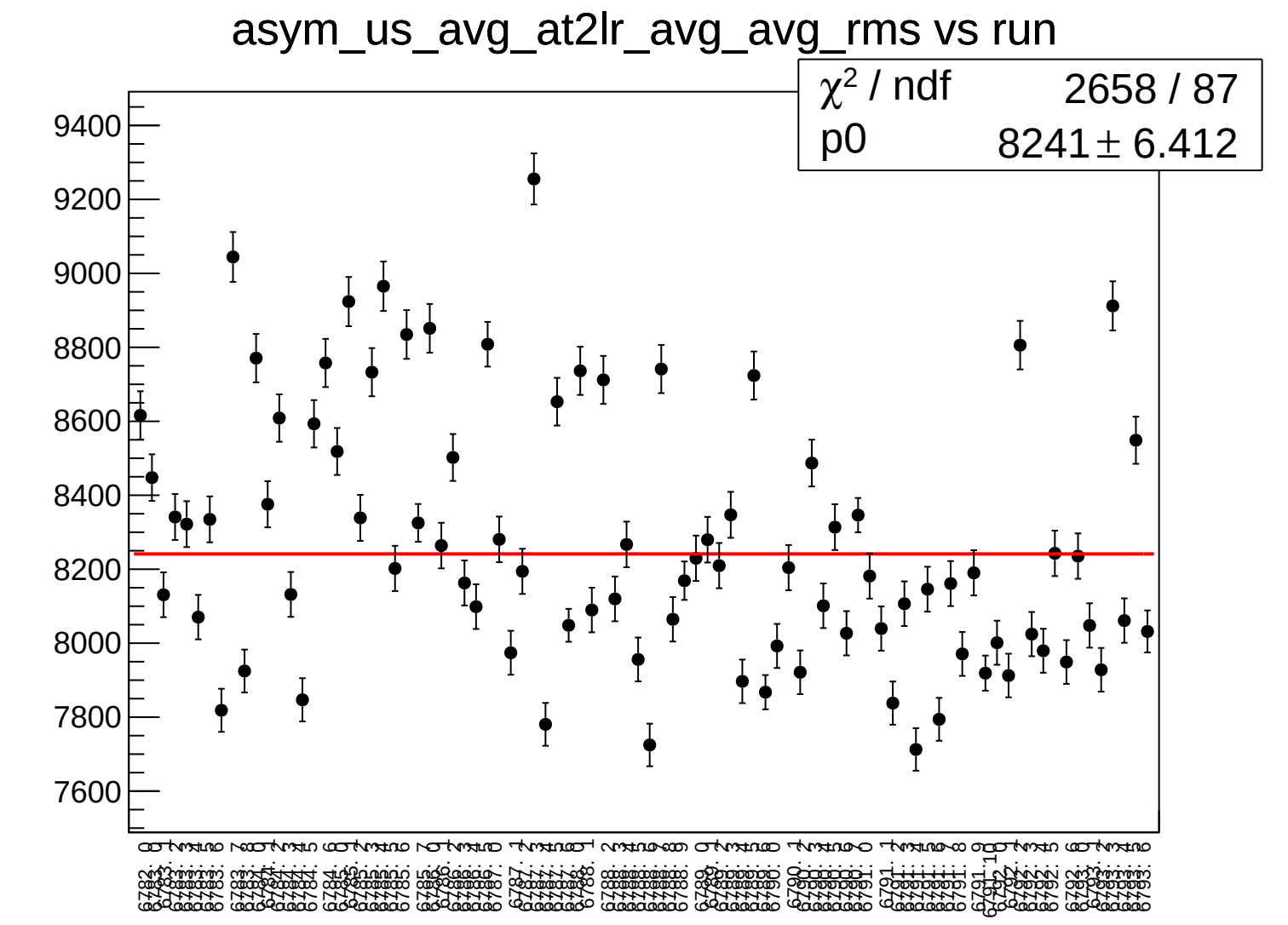

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.77 / 87
p0 −6519 ± 9214
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 31.26
Std Dev 0
2
1
0
−1
−2

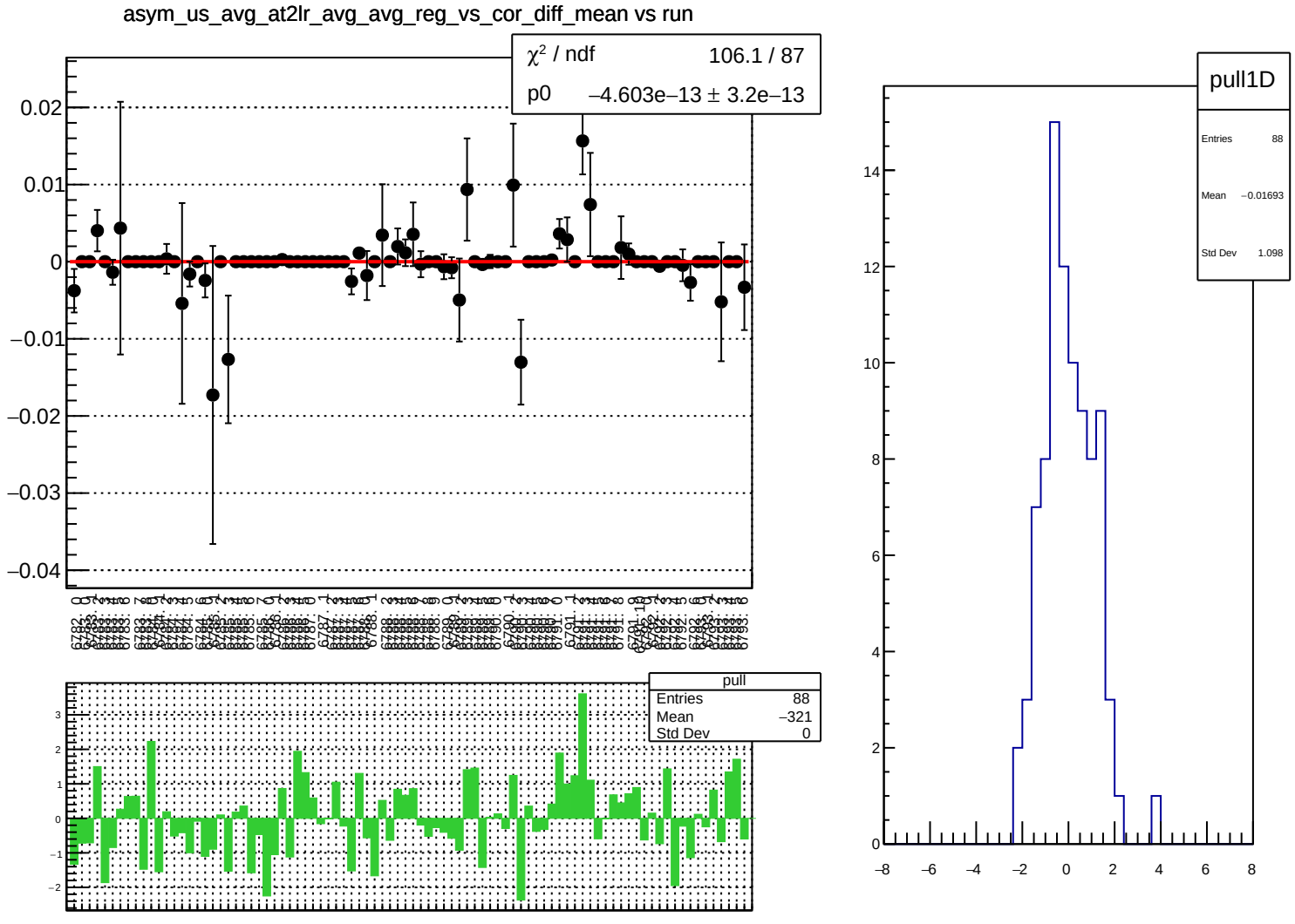

pull1D
Entries 88
Mean −0.008372
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

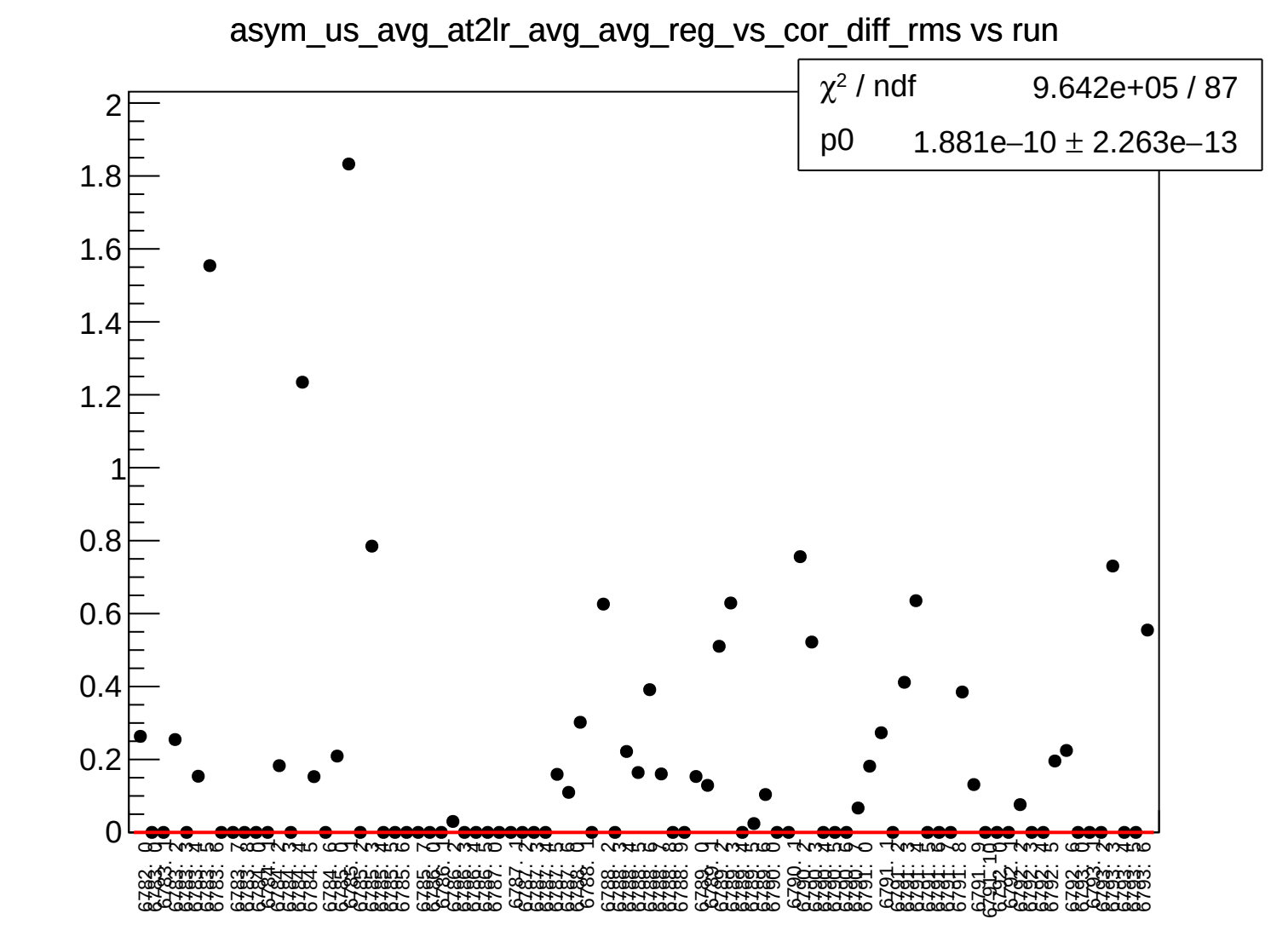

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2779 / 87
p0 8374 ± 6.515
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

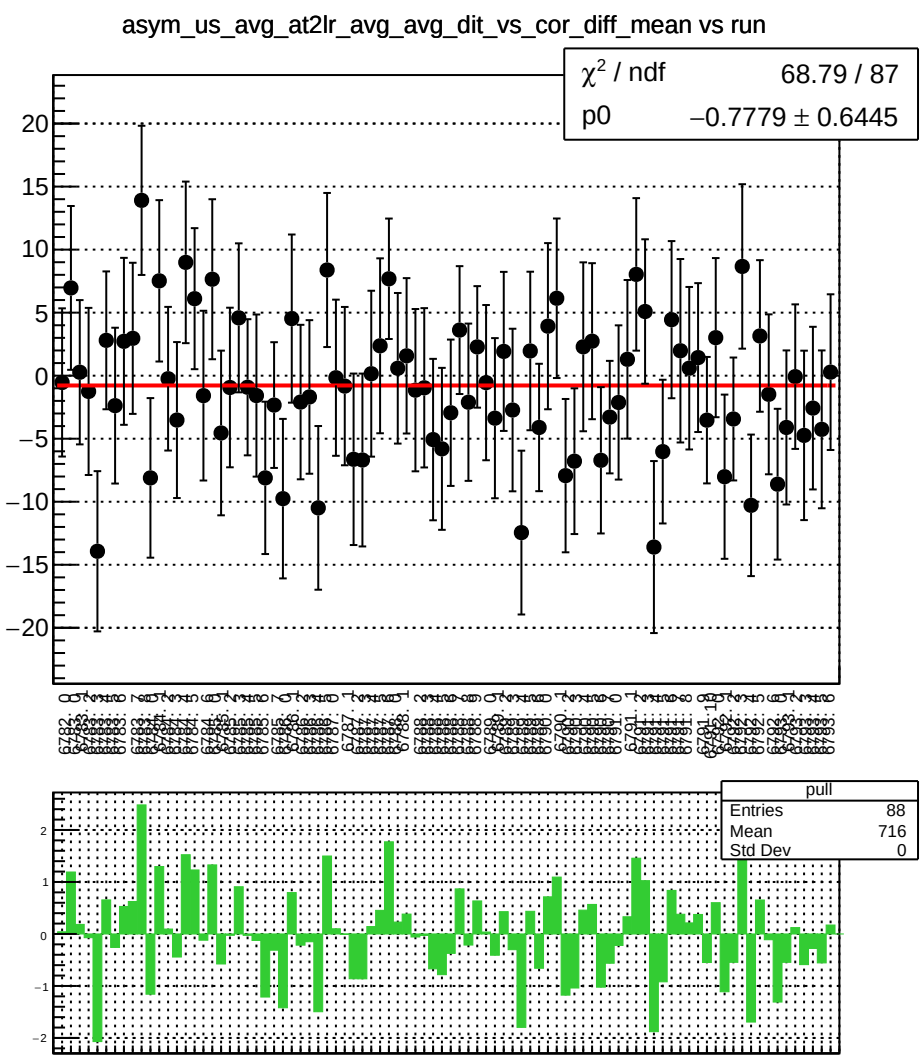

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 95.41 / 87
p0 4274 ± 9067
pull
Entries 88
Mean −225.4
Std Dev 0
2
1
0
−1
−2

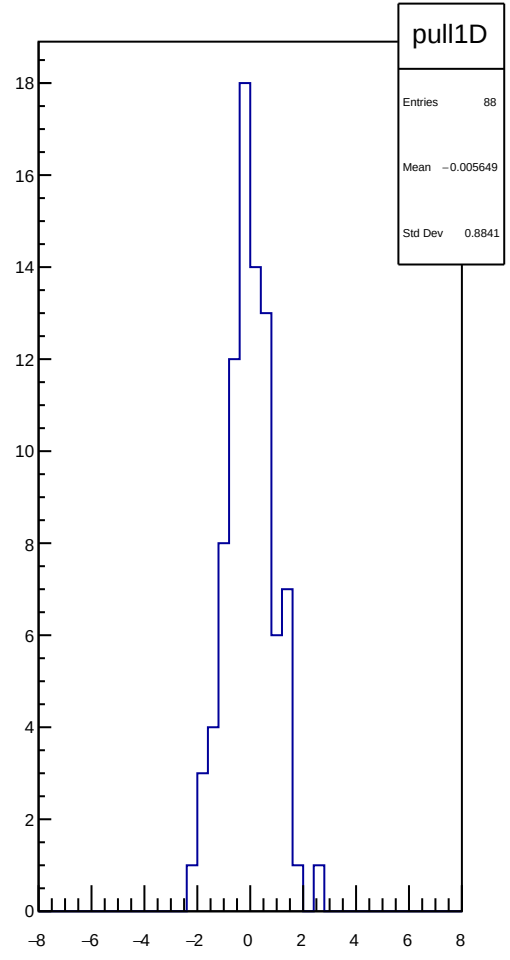

pull1D
Entries 88
Mean 0.00748
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

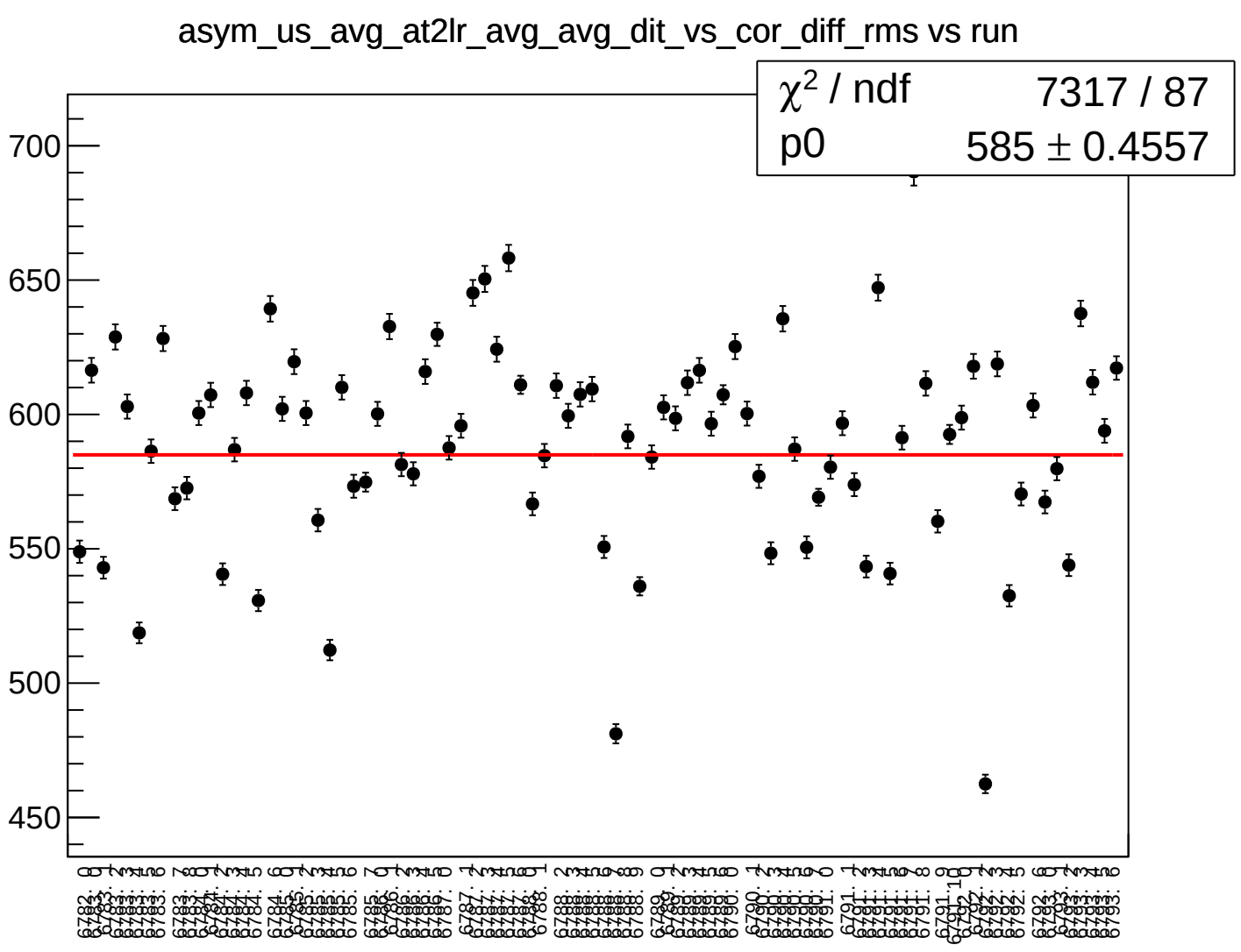

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2658 / 87
p0 8241 ± 6.412
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

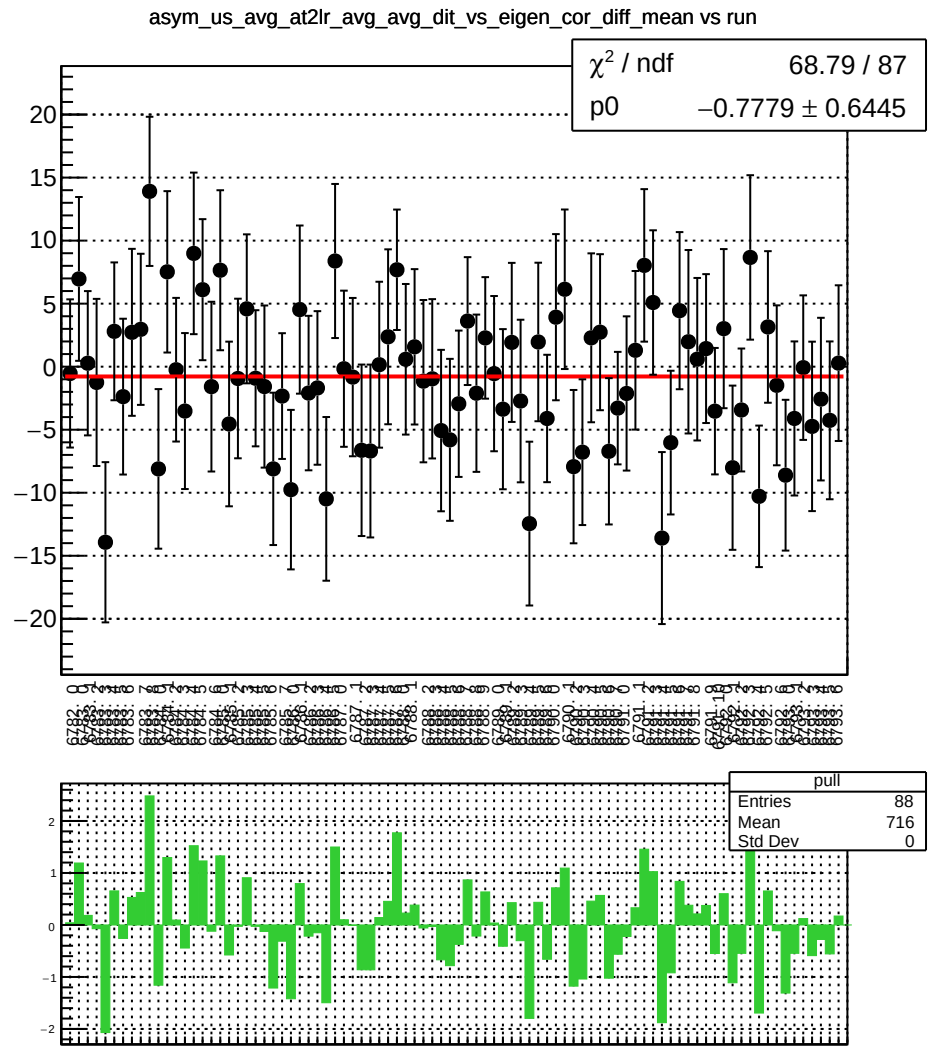

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −4.603e−13 ± 3.2e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean −321
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01693
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

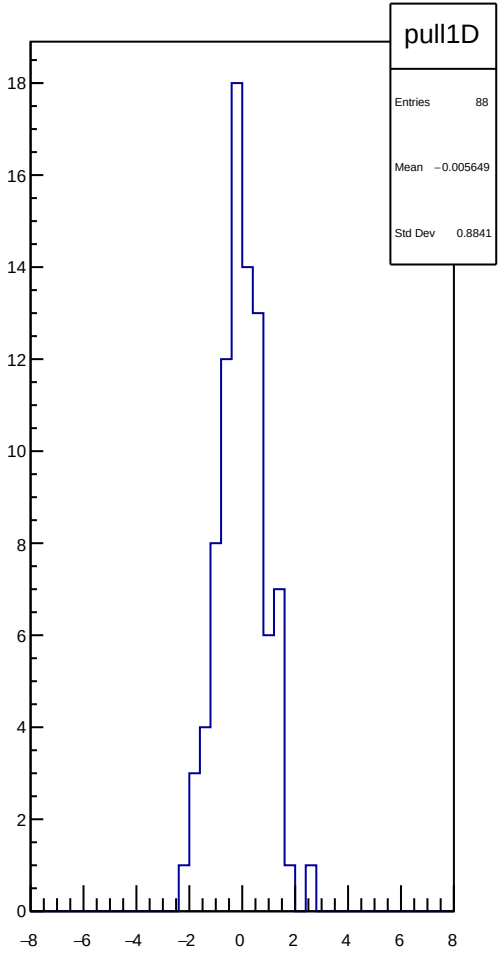

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.642e+05 / 87
p0 1.881e−10 ± 2.263e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

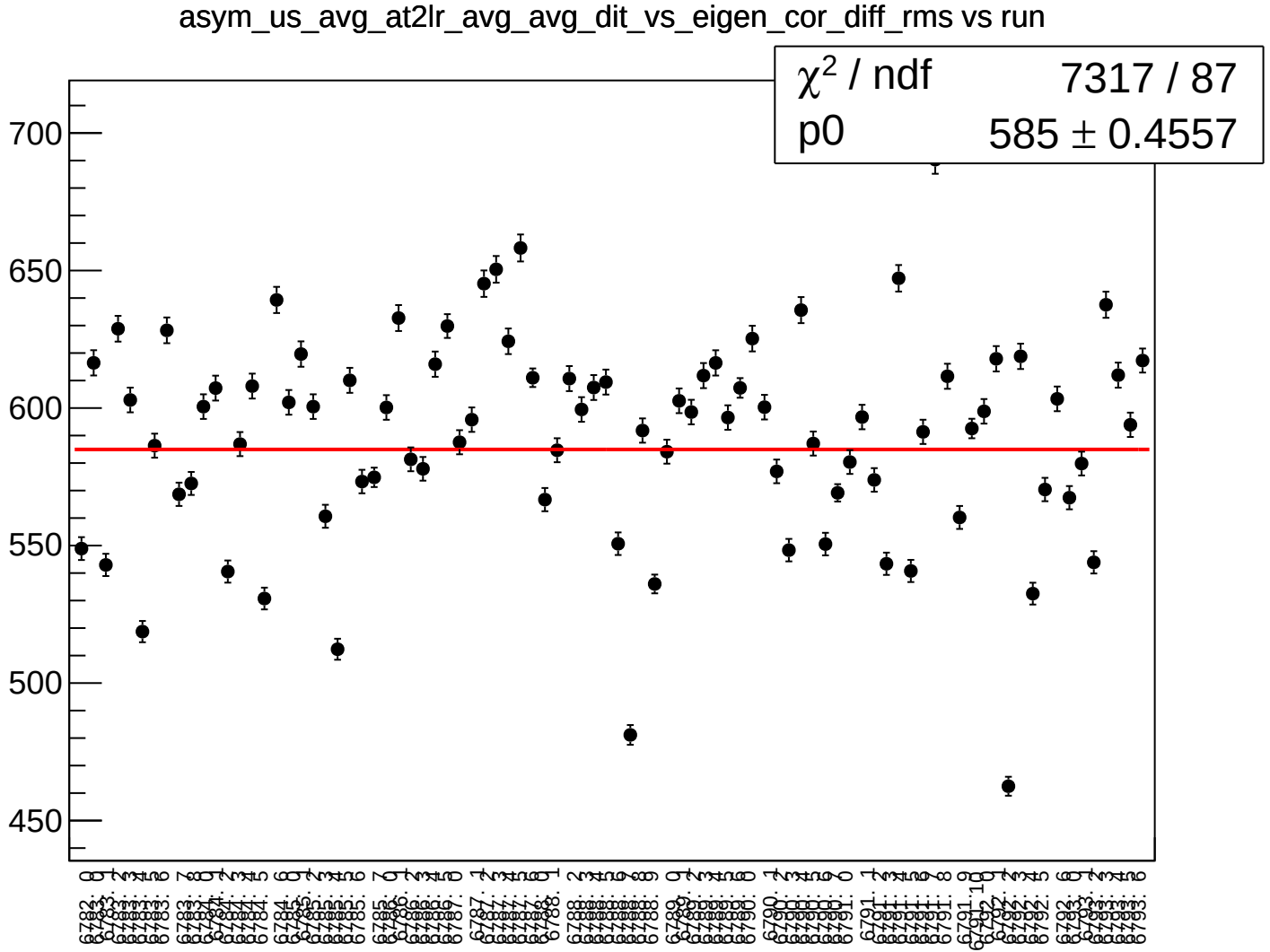

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.79 / 87
p0 −0.7779 ± 0.6445
pull
Entries 88
Mean 716
Std Dev 0

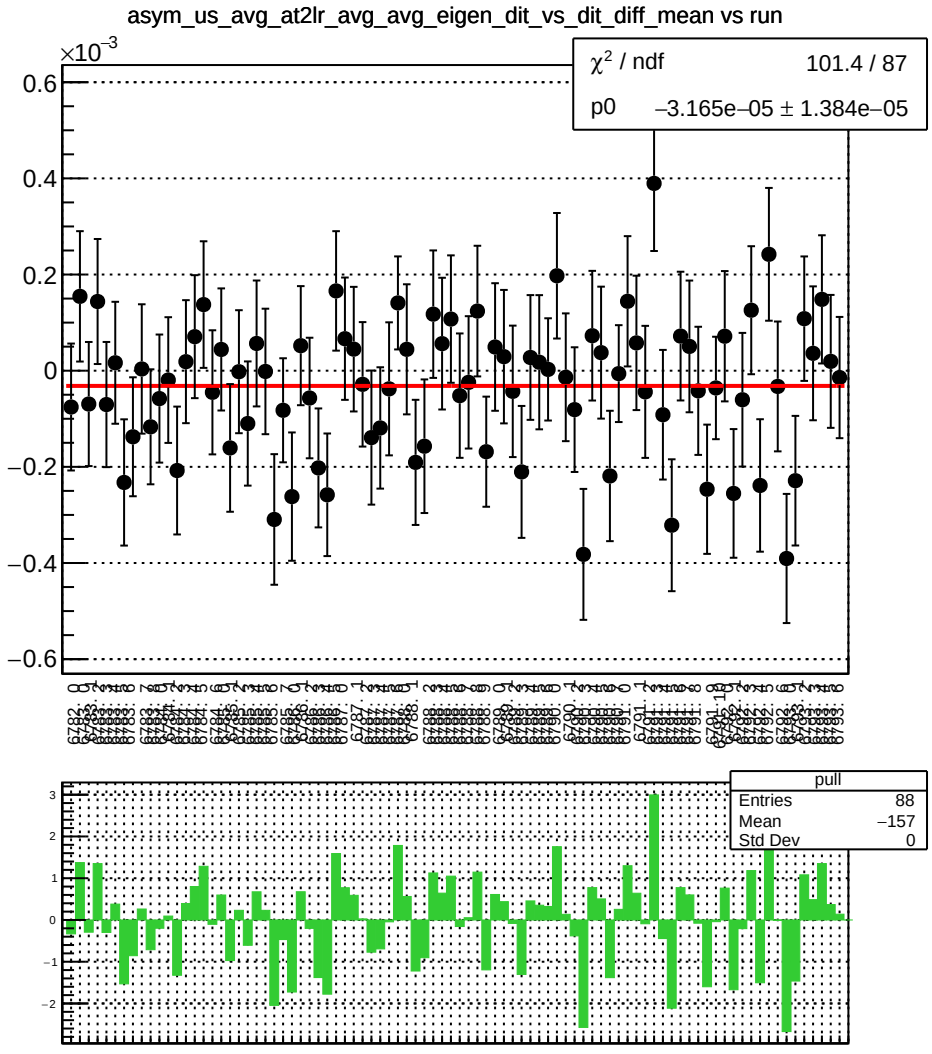

pull1D
Entries 88
Mean −0.005649
Std Dev 0.8841

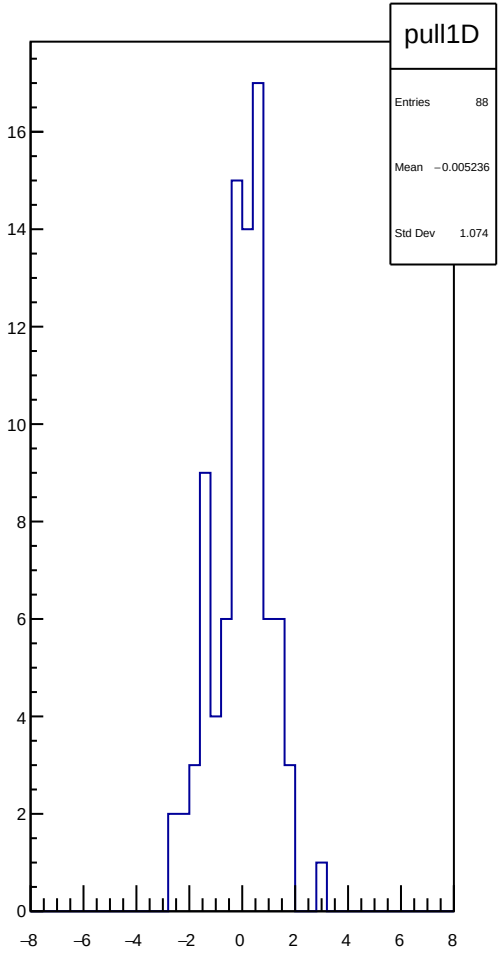

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7317 / 87
p0 585 ± 0.4557
700
650
600
550
500
450

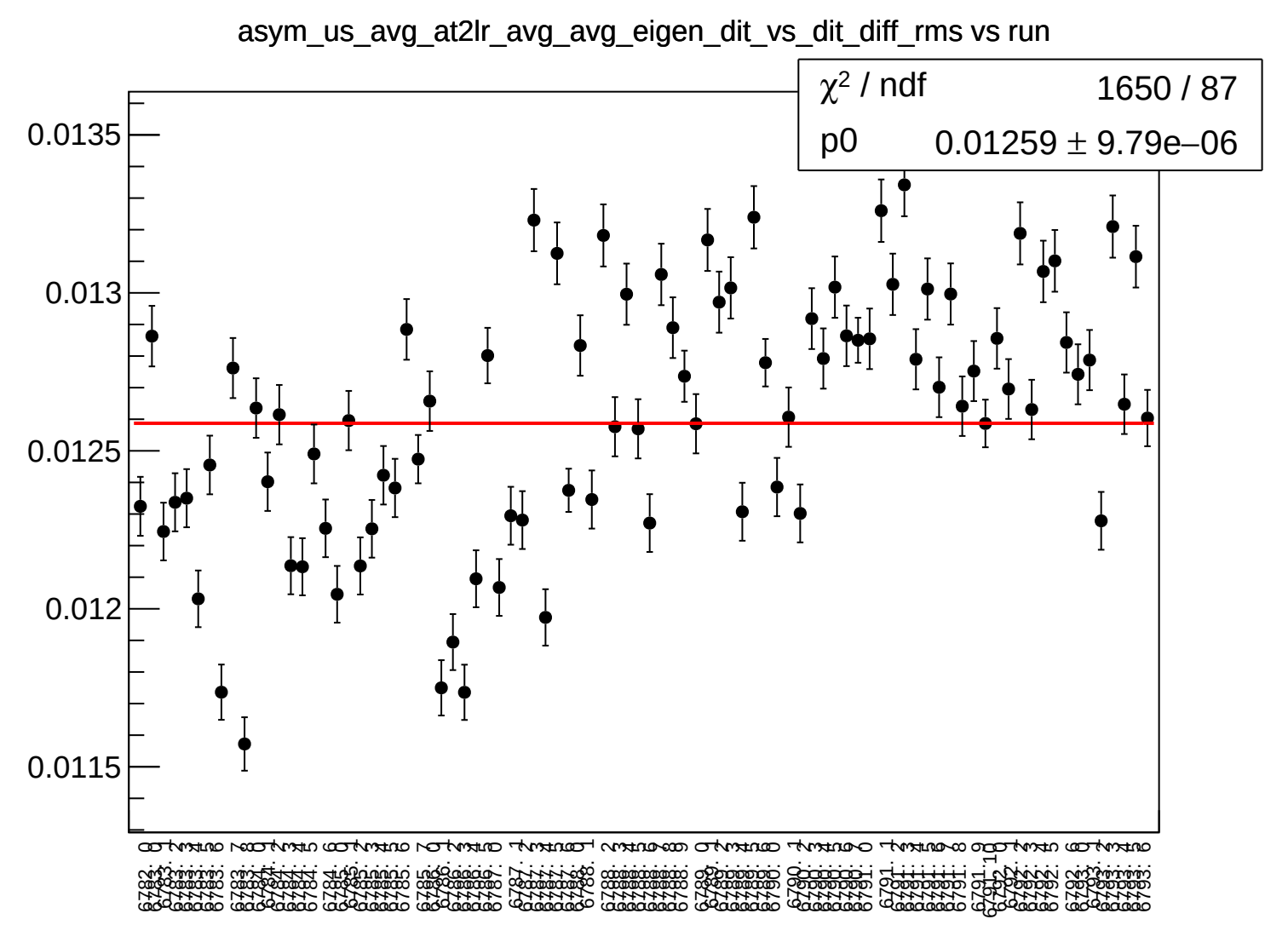

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.79 / 87
p0 −0.7779 ± 0.6445
pull
Entries 88
Mean 716
Std Dev 0

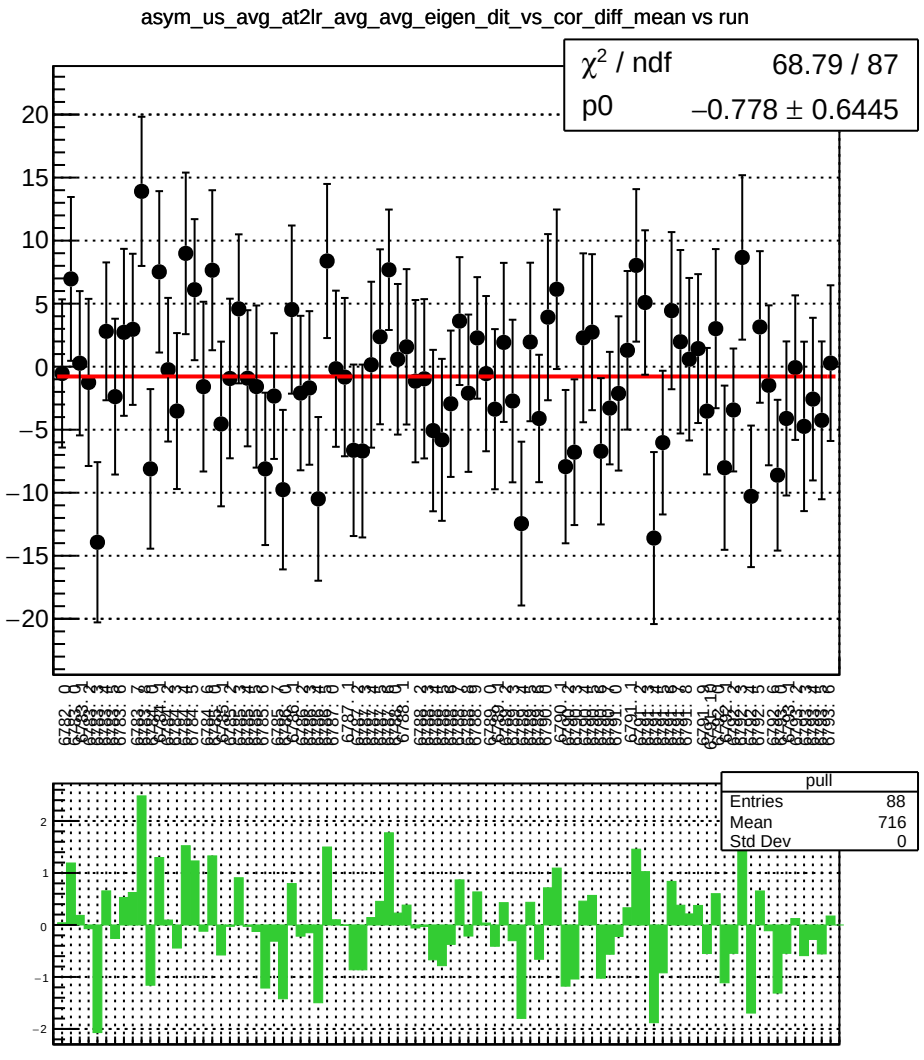

pull1D
Entries 88
Mean −0.005649
Std Dev 0.8841

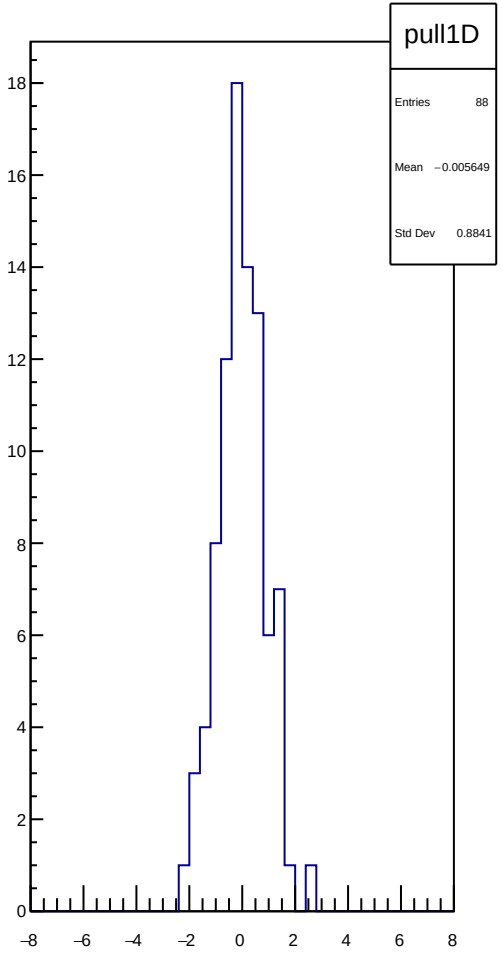

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7317 / 87
p0 585 ± 0.4557
700
650
600
550
500
450

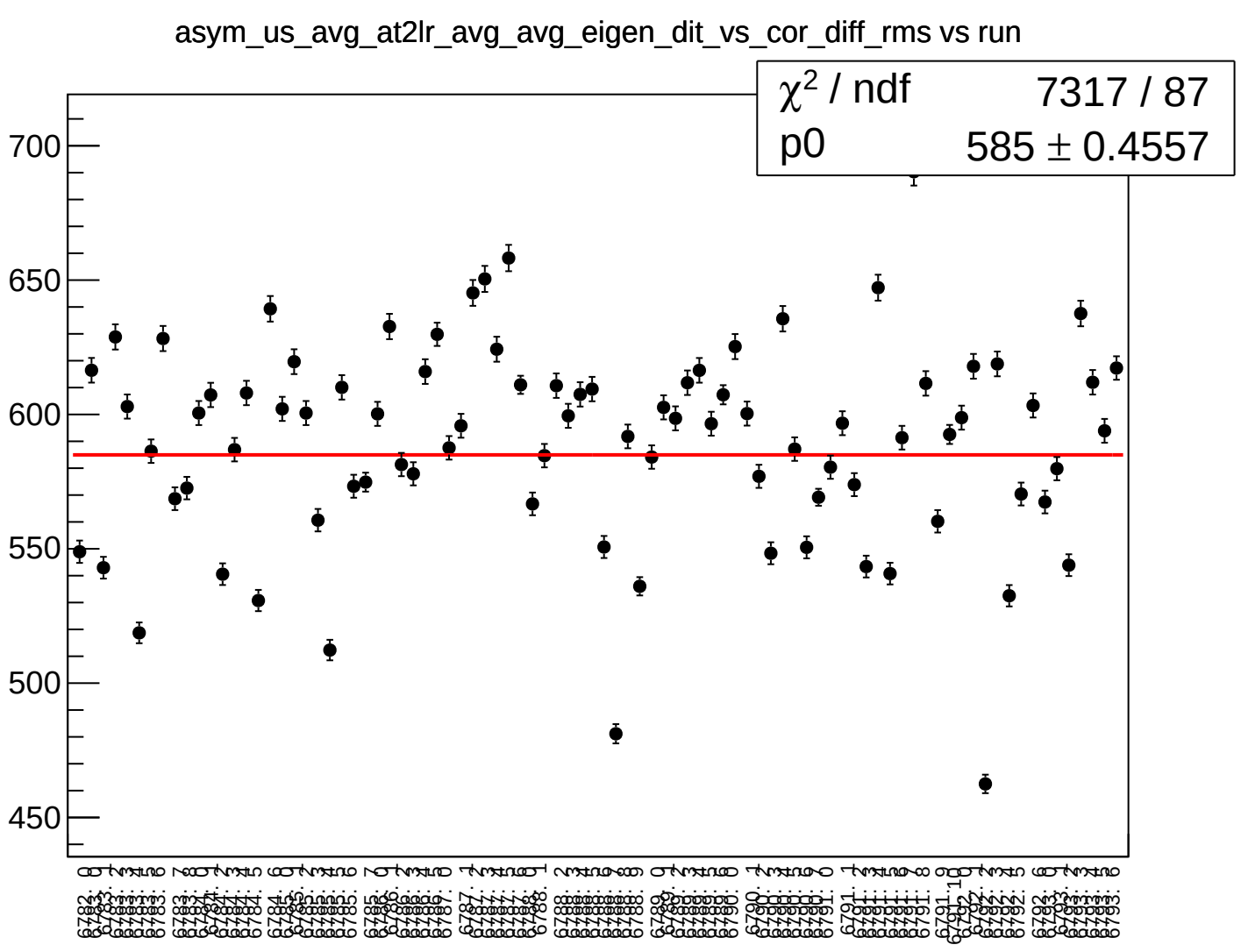

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.4 / 87
p0 −3.165e−05 ± 1.384e−05
pull
Entries 88
Mean −157
Std Dev 0

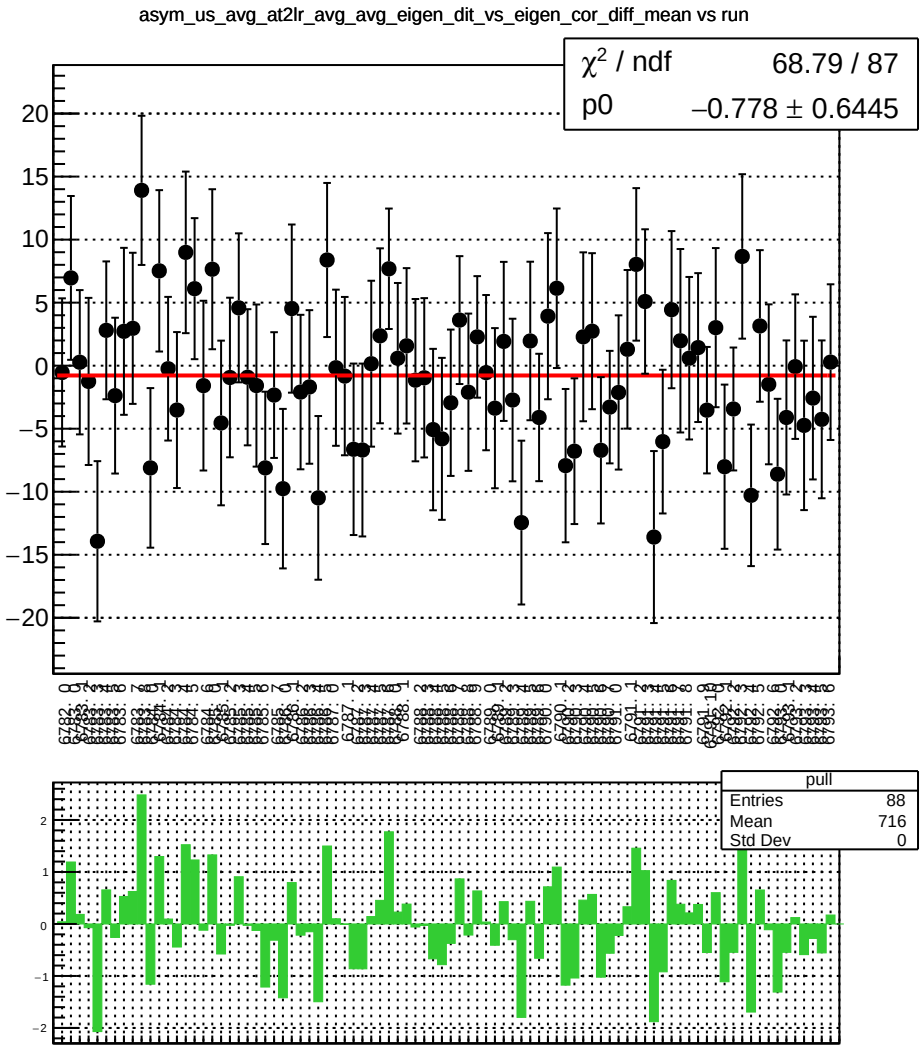

pull1D
Entries 88
Mean −0.005236
Std Dev 1.074

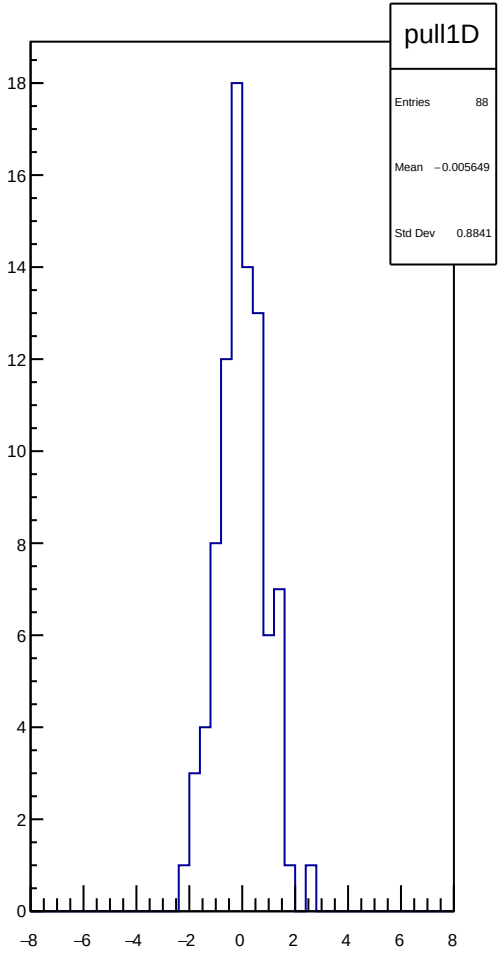

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1650 / 87
p0 0.01259 ± 9.79e−06
0.0135
0.013
0.0125
0.012
0.0115

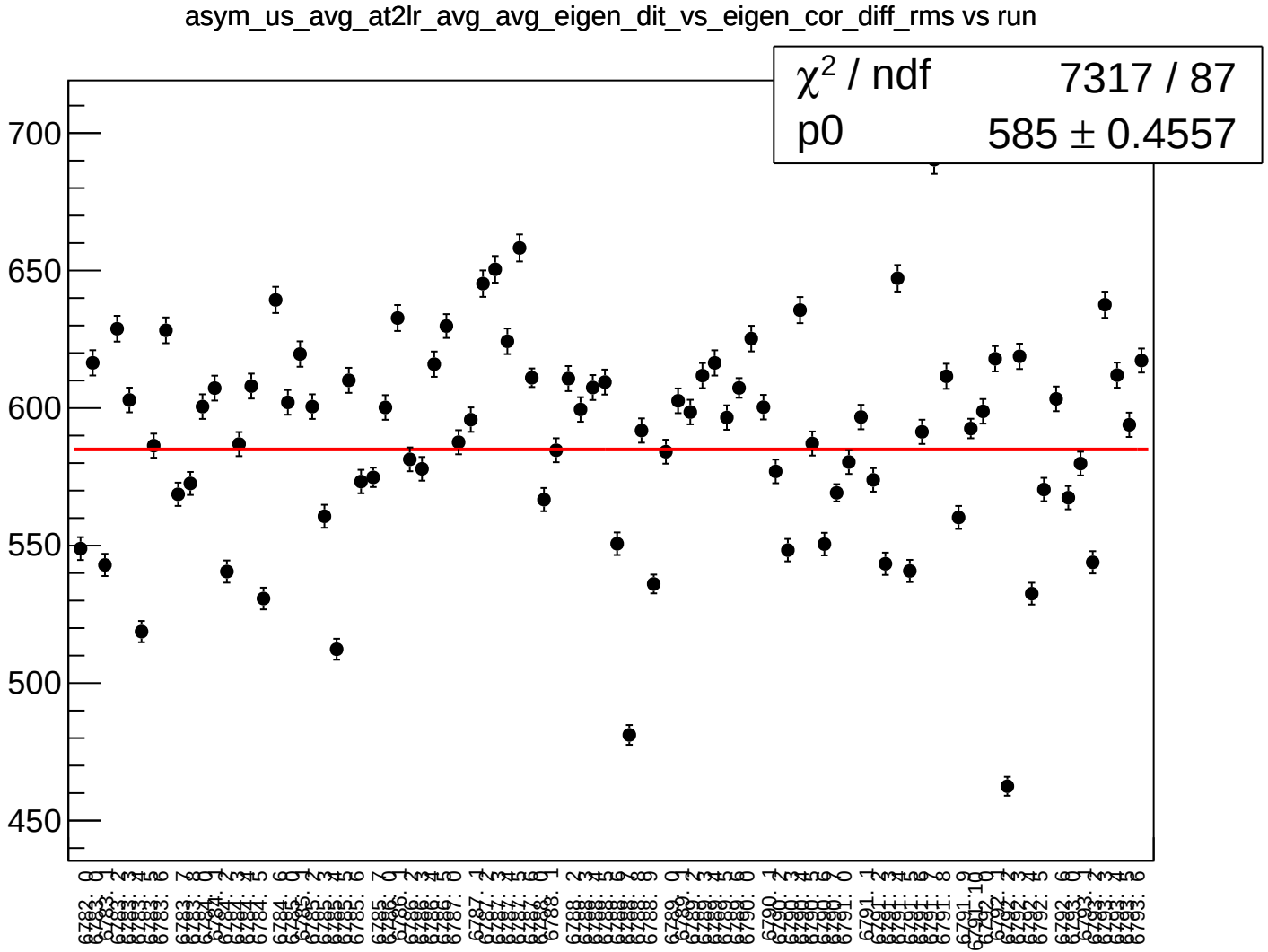

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.79 / 87
p0 −0.778 ± 0.6445
pull
Entries 88
Mean 716
Std Dev 0

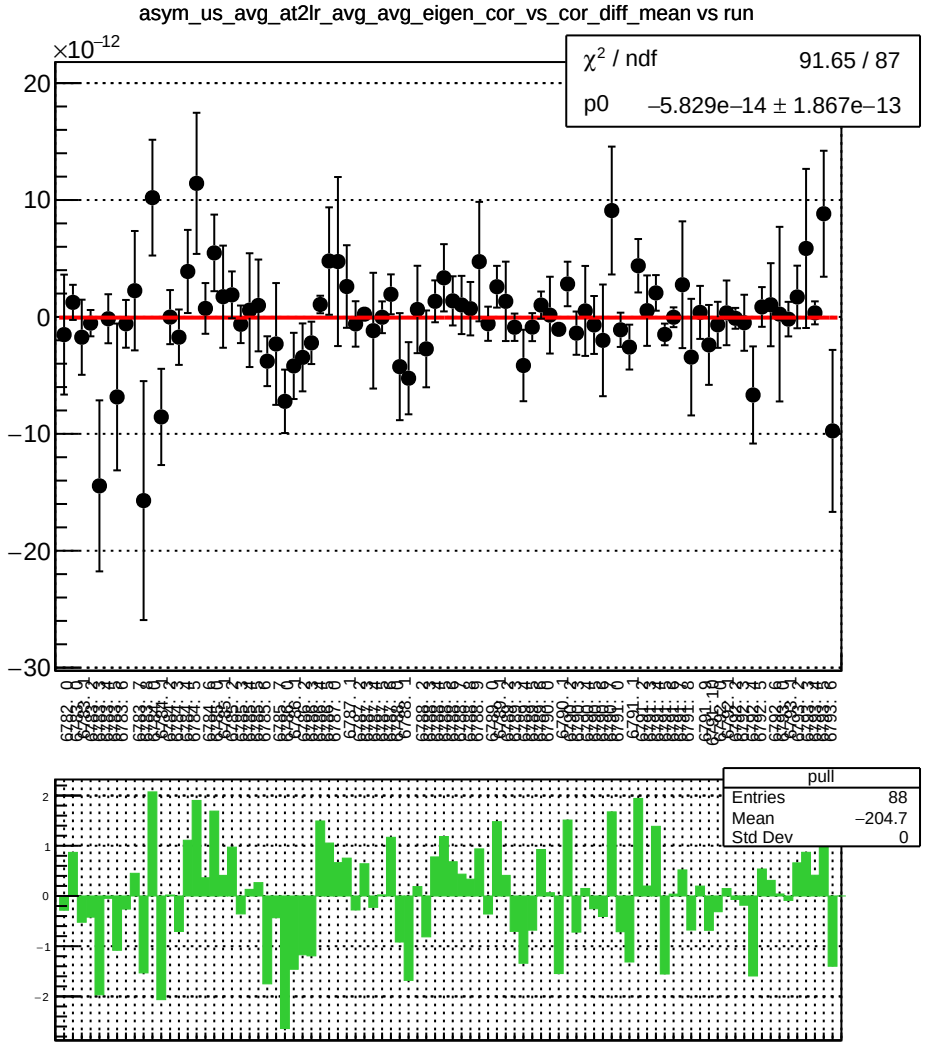

pull1D
Entries 88
Mean −0.005649
Std Dev 0.8841

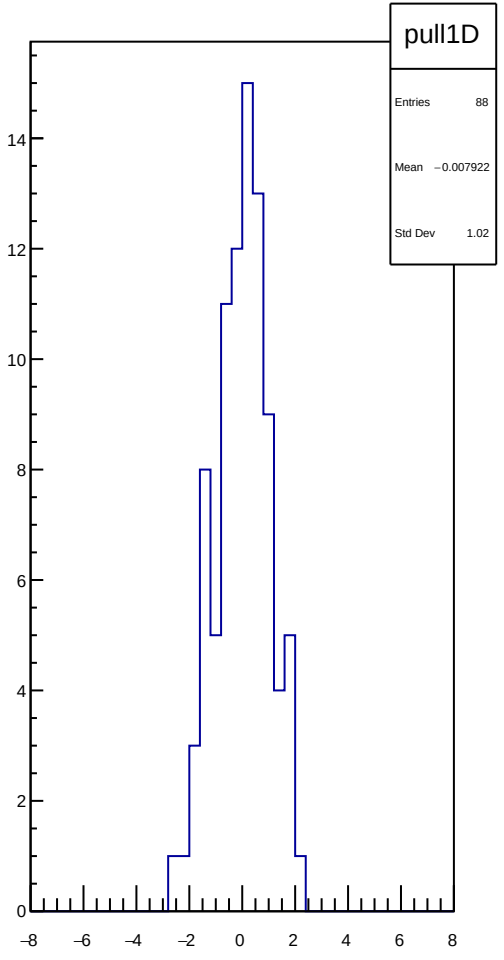

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7317 / 87
p0 585 ± 0.4557
700
650
600
550
500
450

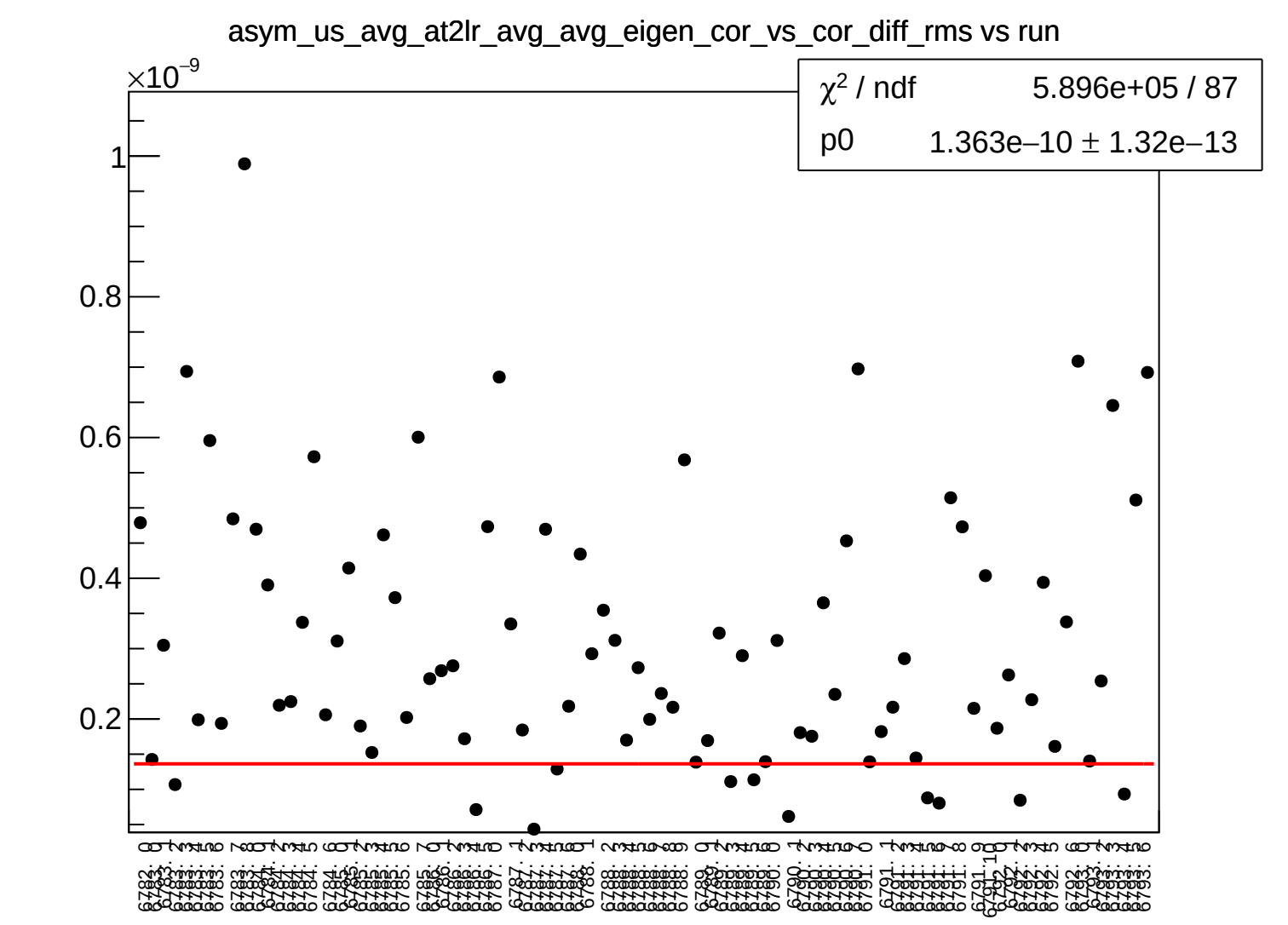

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.79 / 87
p0 −0.778 ± 0.6445
pull
Entries 88
Mean 716
Std Dev 0

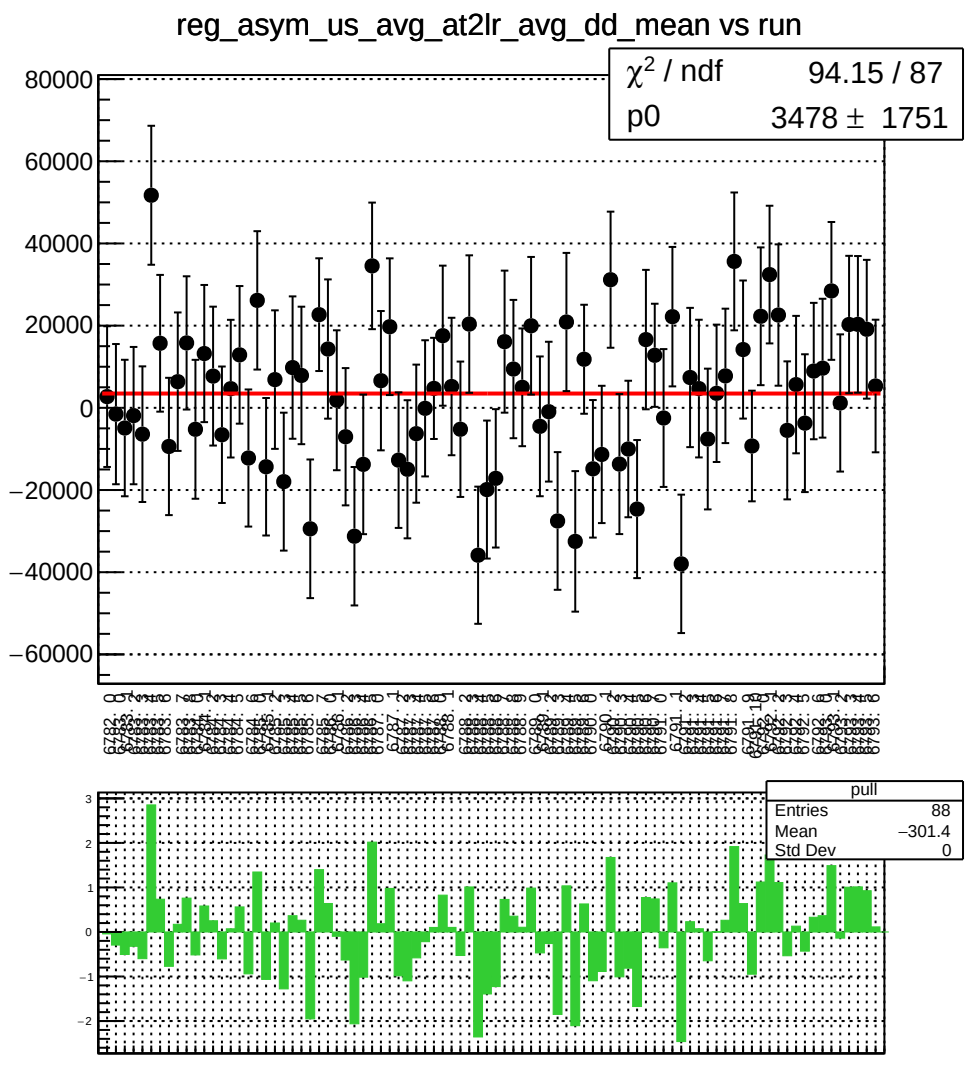

pull1D
Entries 88
Mean −0.005649
Std Dev 0.8841

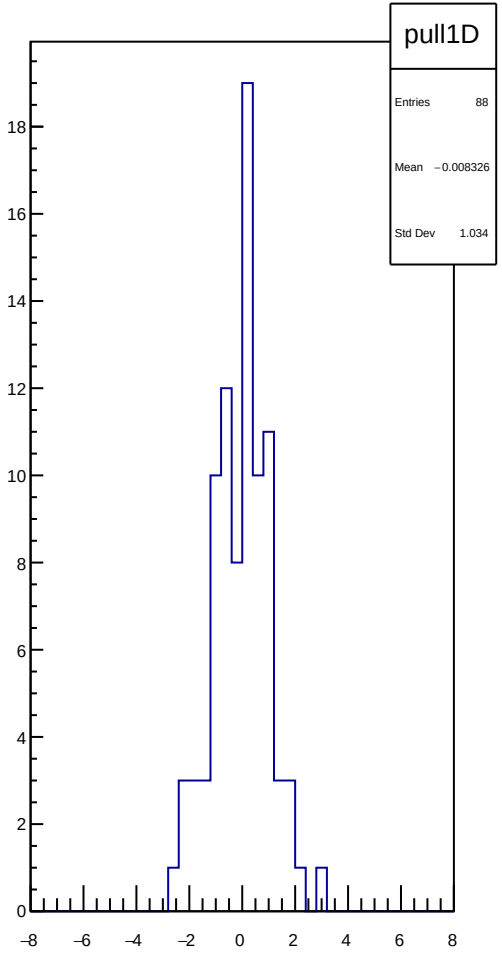

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7317 / 87
p0 585 ± 0.4557
700
650
600
550
500
450

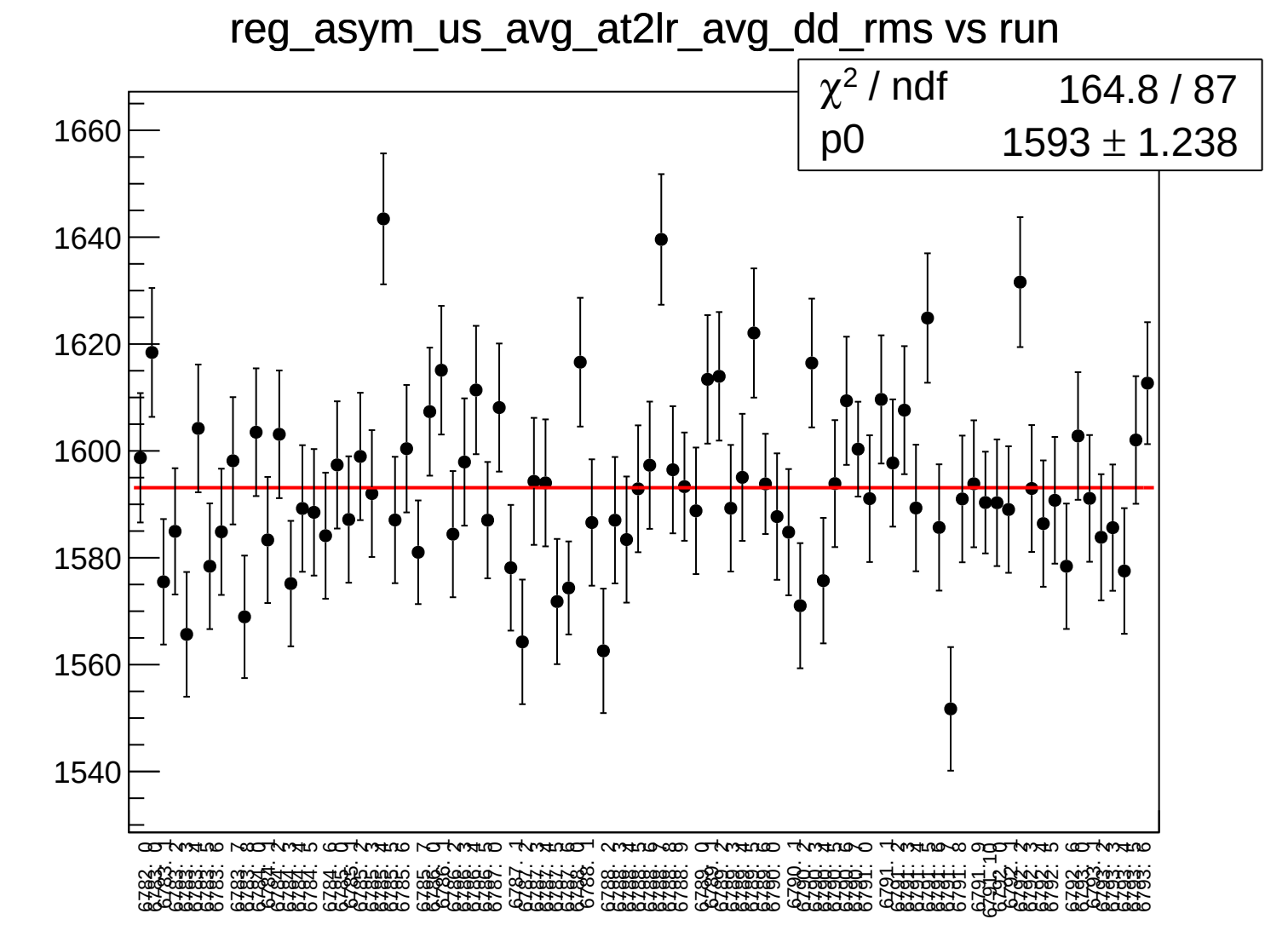

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.65 / 87
p0 −5.829e−14 ± 1.867e−13
pull
Entries 88
Mean −204.7
Std Dev 0

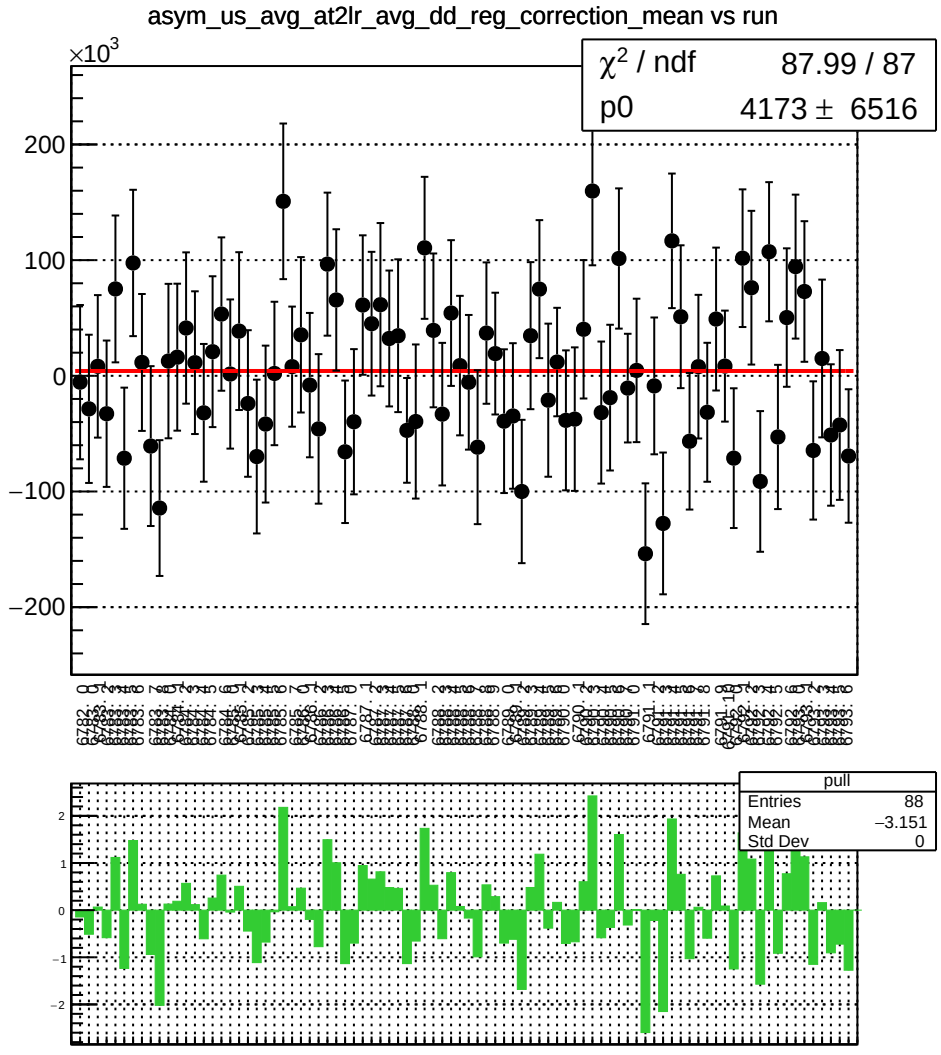

pull1D
Entries 88
Mean −0.007922
Std Dev 1.02

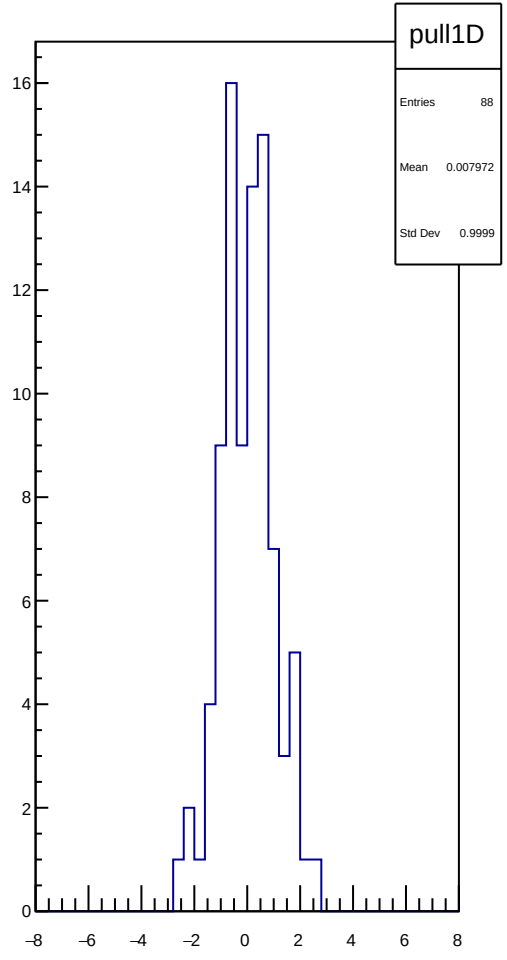

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.896e+05 / 87
p0 1.363e−10 ± 1.32e−13
1
0.8
0.6
0.4
0.2

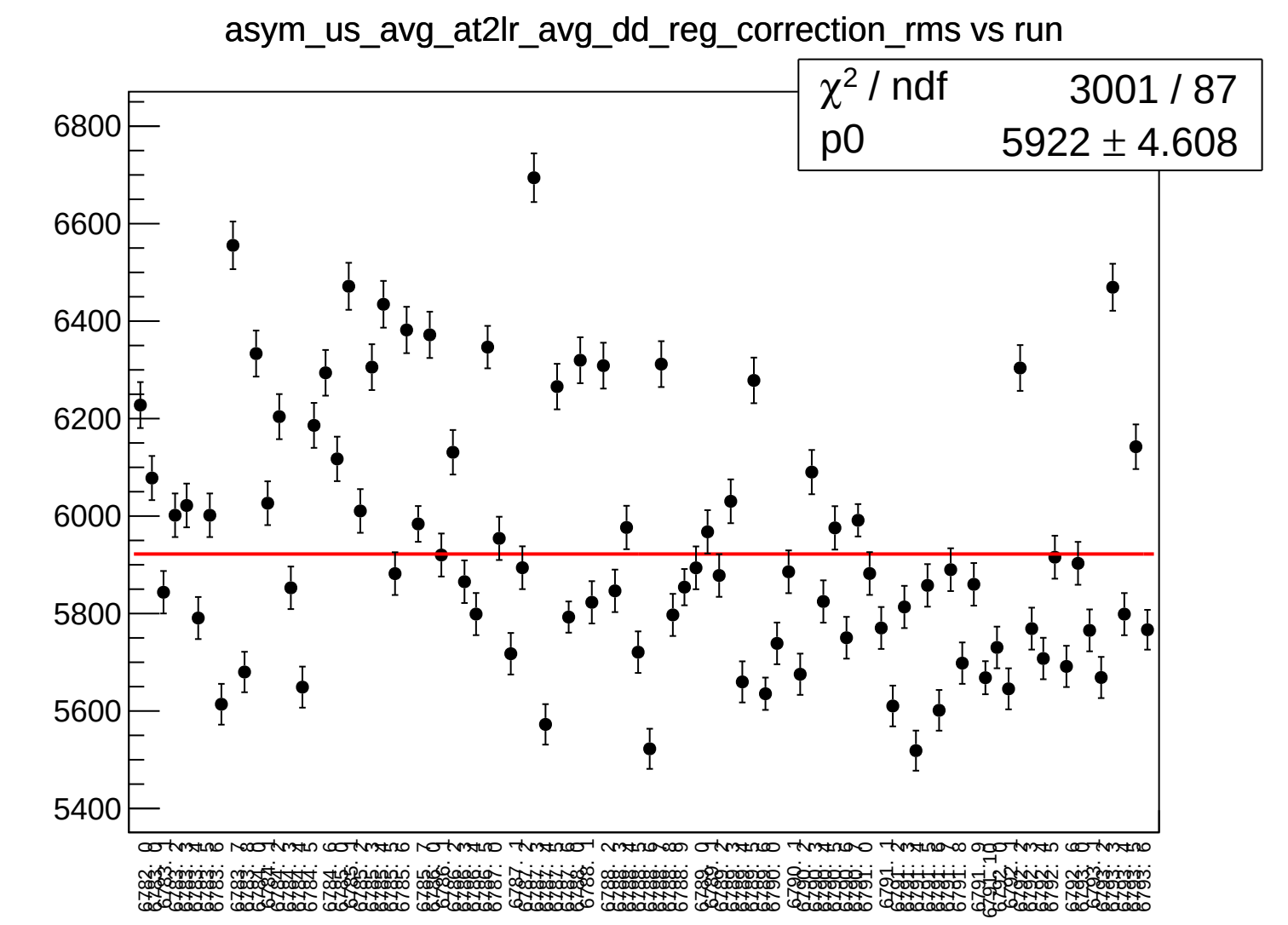

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 94.15 / 87
p0 3478 ± 1751
pull
Entries 88
Mean −301.4
Std Dev 0

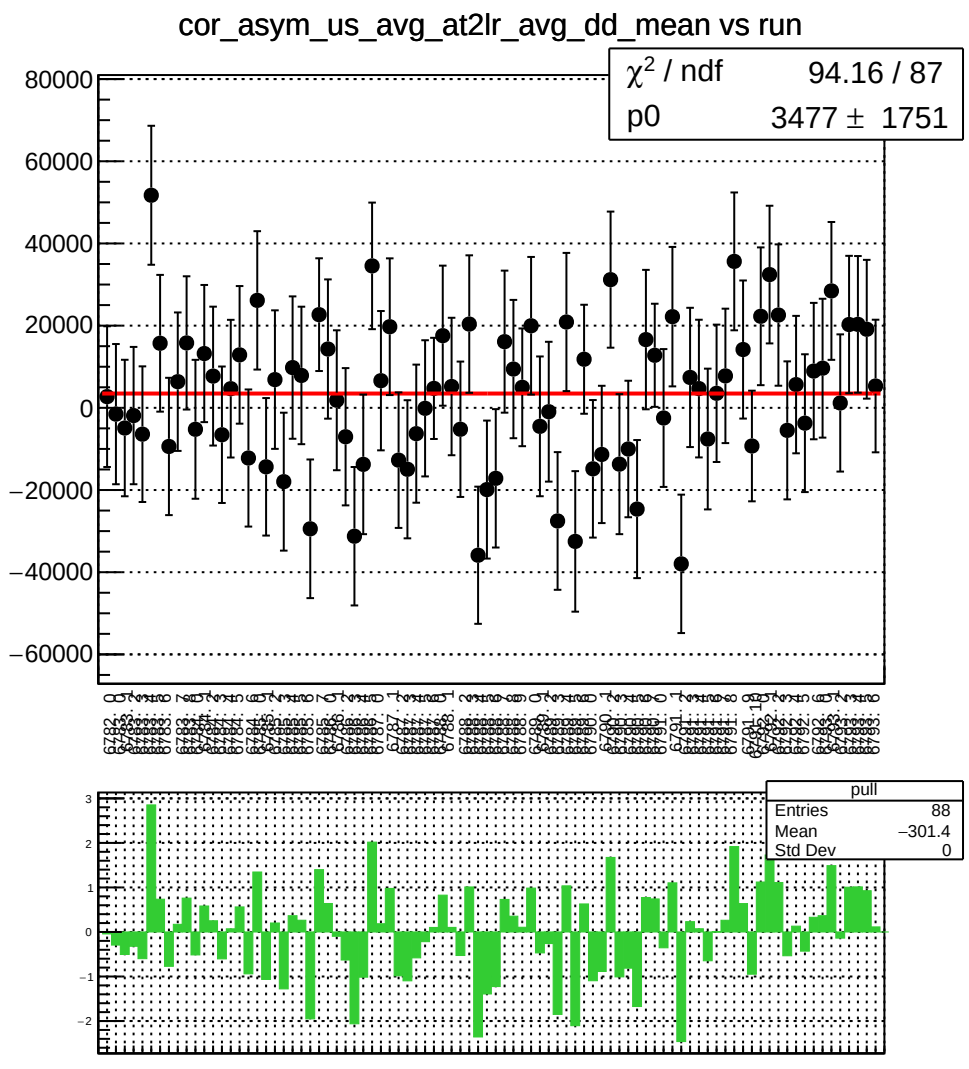

pull1D
Entries 88
Mean −0.008326
Std Dev 1.034

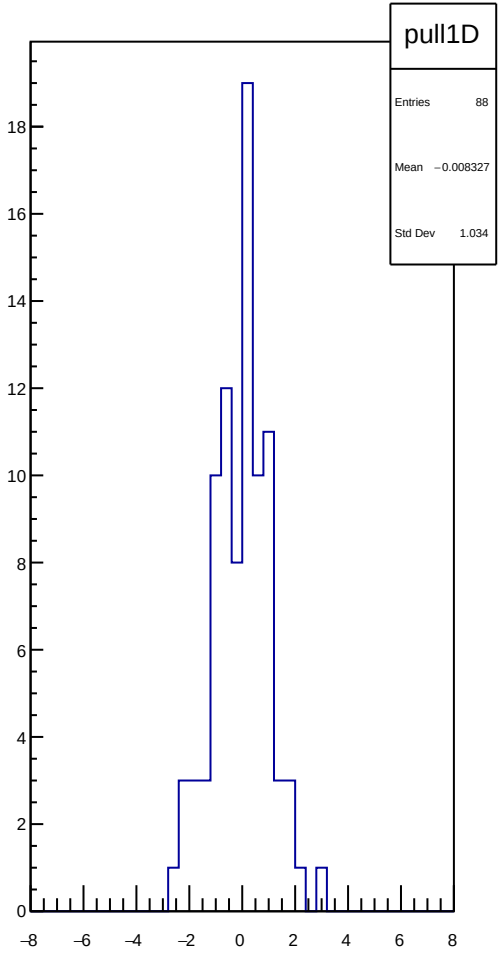

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 164.8 / 87
p0 1593 ± 1.238
1660
1640
1620
1600
1580
1560
1540

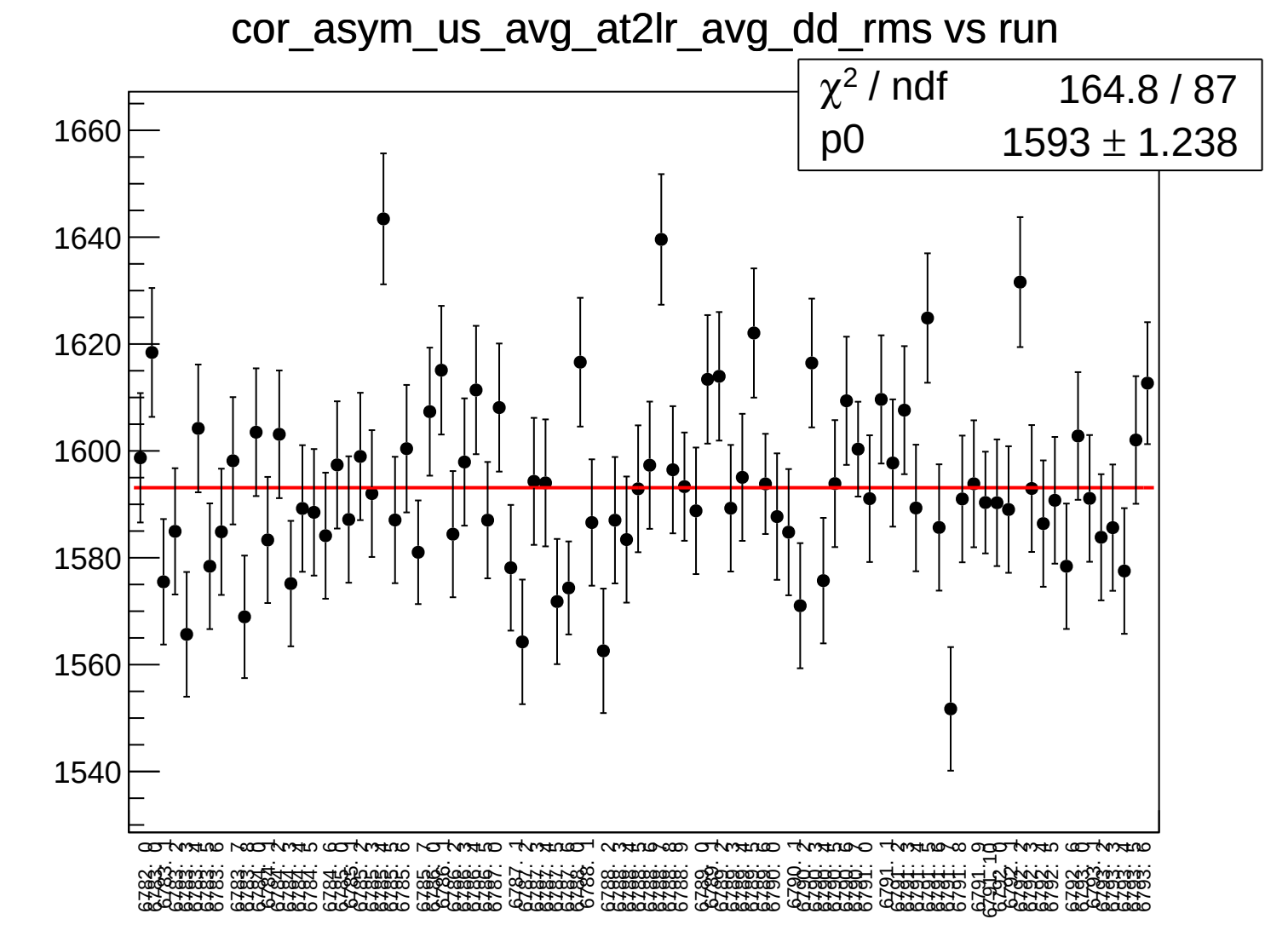

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 87.99 / 87
p0 4173 ± 6516
200
100
0
−100
−200
pull
Entries 88
Mean −3.151
Std Dev 0
2
1
0
−1
−2

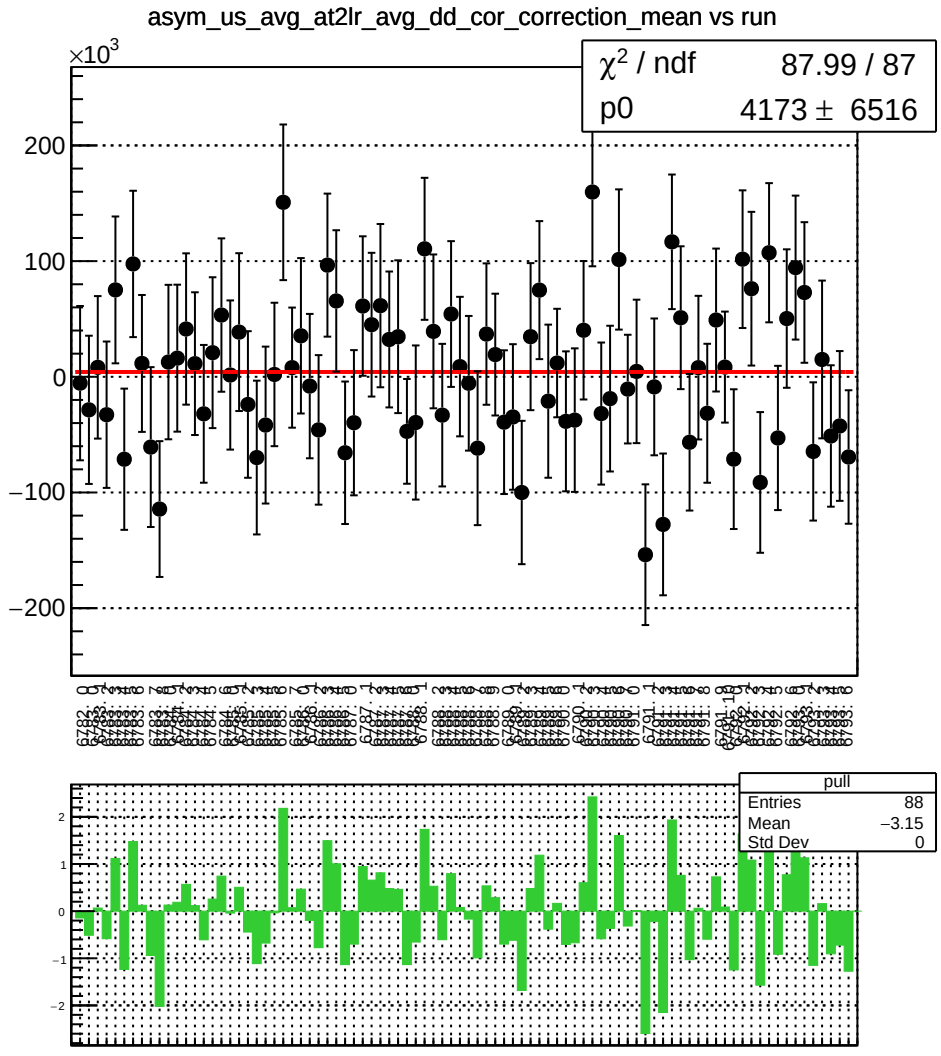

pull1D
Entries 88
Mean 0.007972
Std Dev 0.9999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

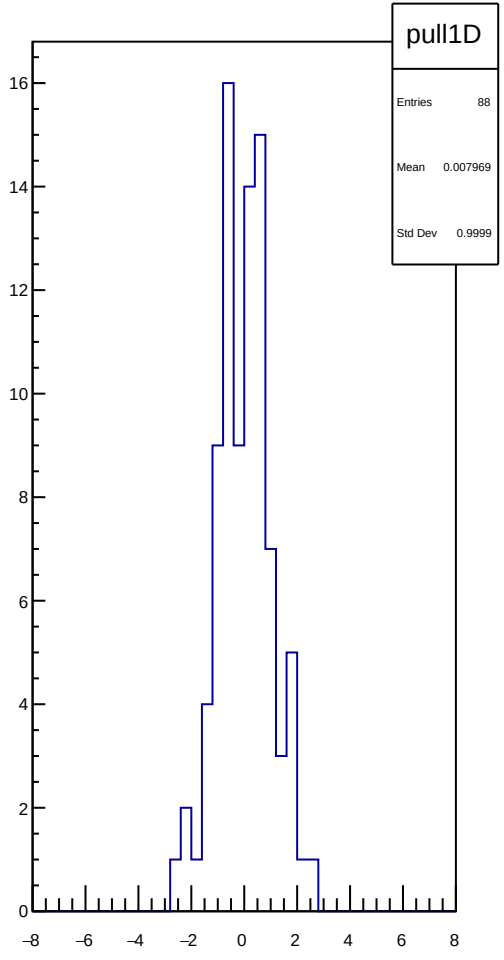

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3001 / 87
p0 5922 ± 4.608
6800
6600
6400
6200
6000
5800
5600
5400

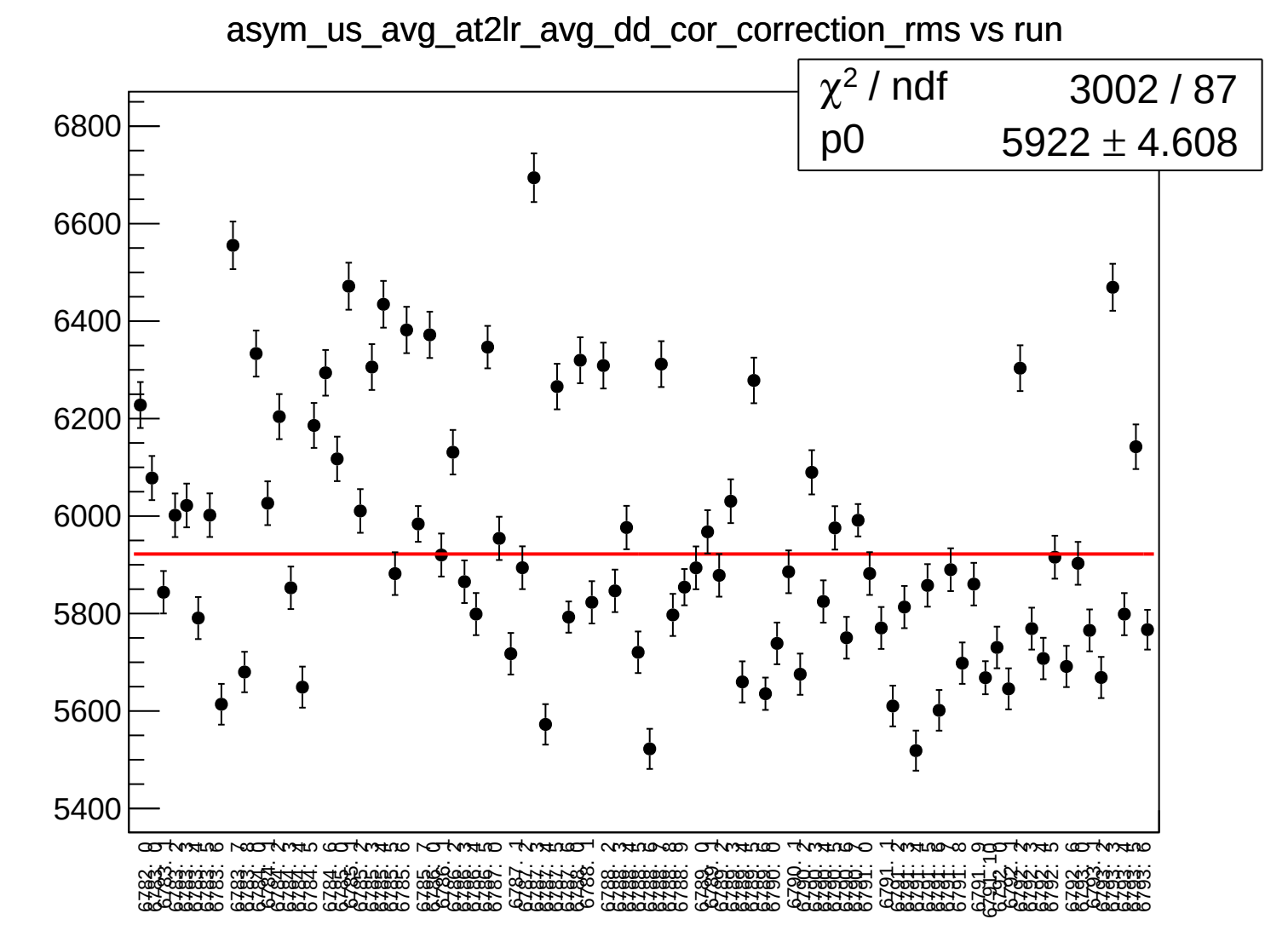

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 94.16 / 87
p0 3477 ± 1751
pull
Entries 88
Mean −301.4
Std Dev 0

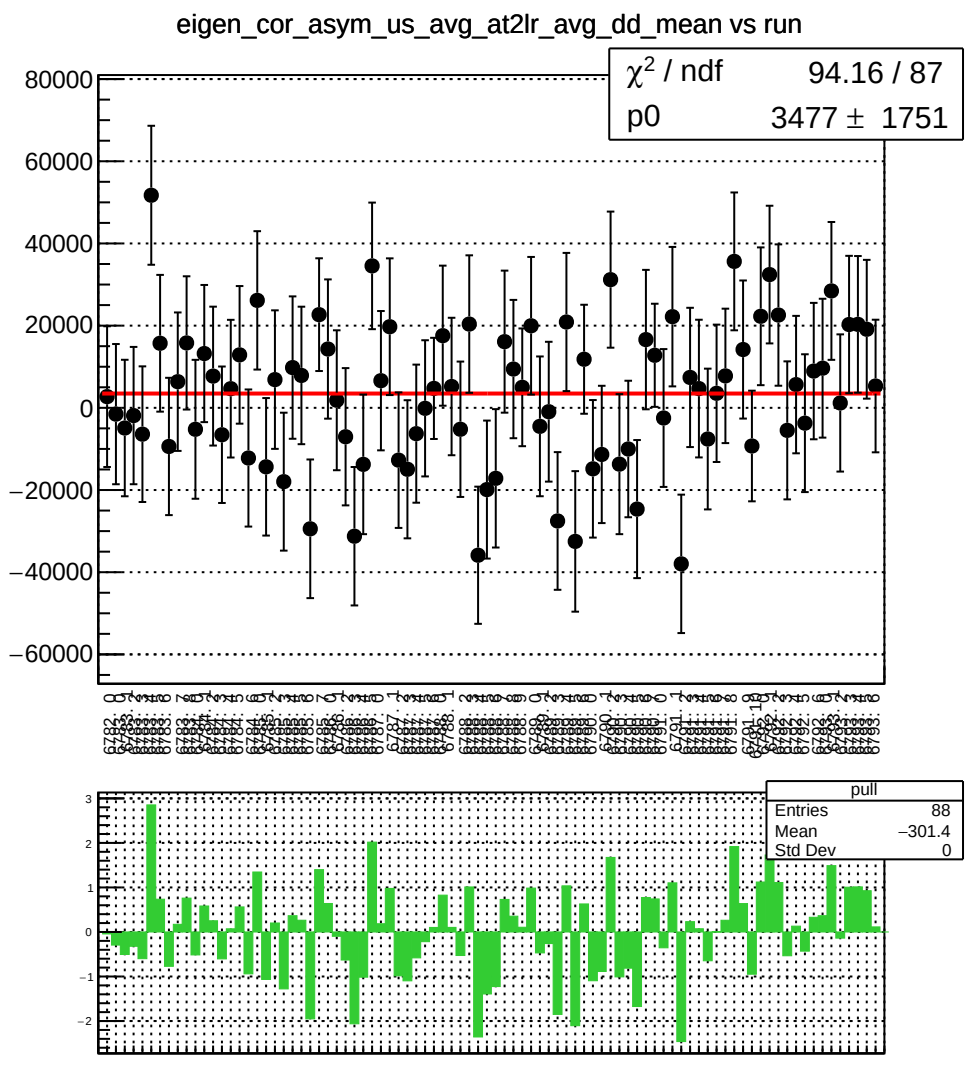

pull1D
Entries 88
Mean −0.008327
Std Dev 1.034

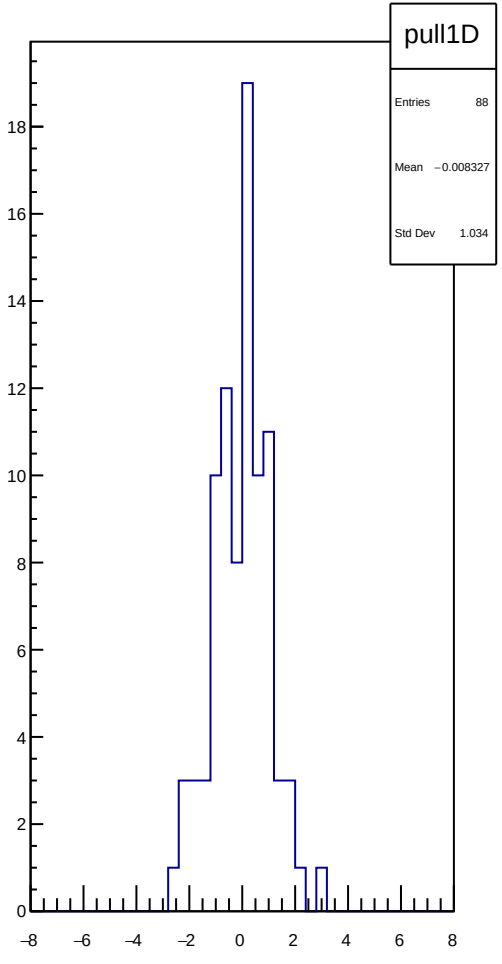

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 164.8 / 87
p0 1593 ± 1.238
1660
1640
1620
1600
1580
1560
1540

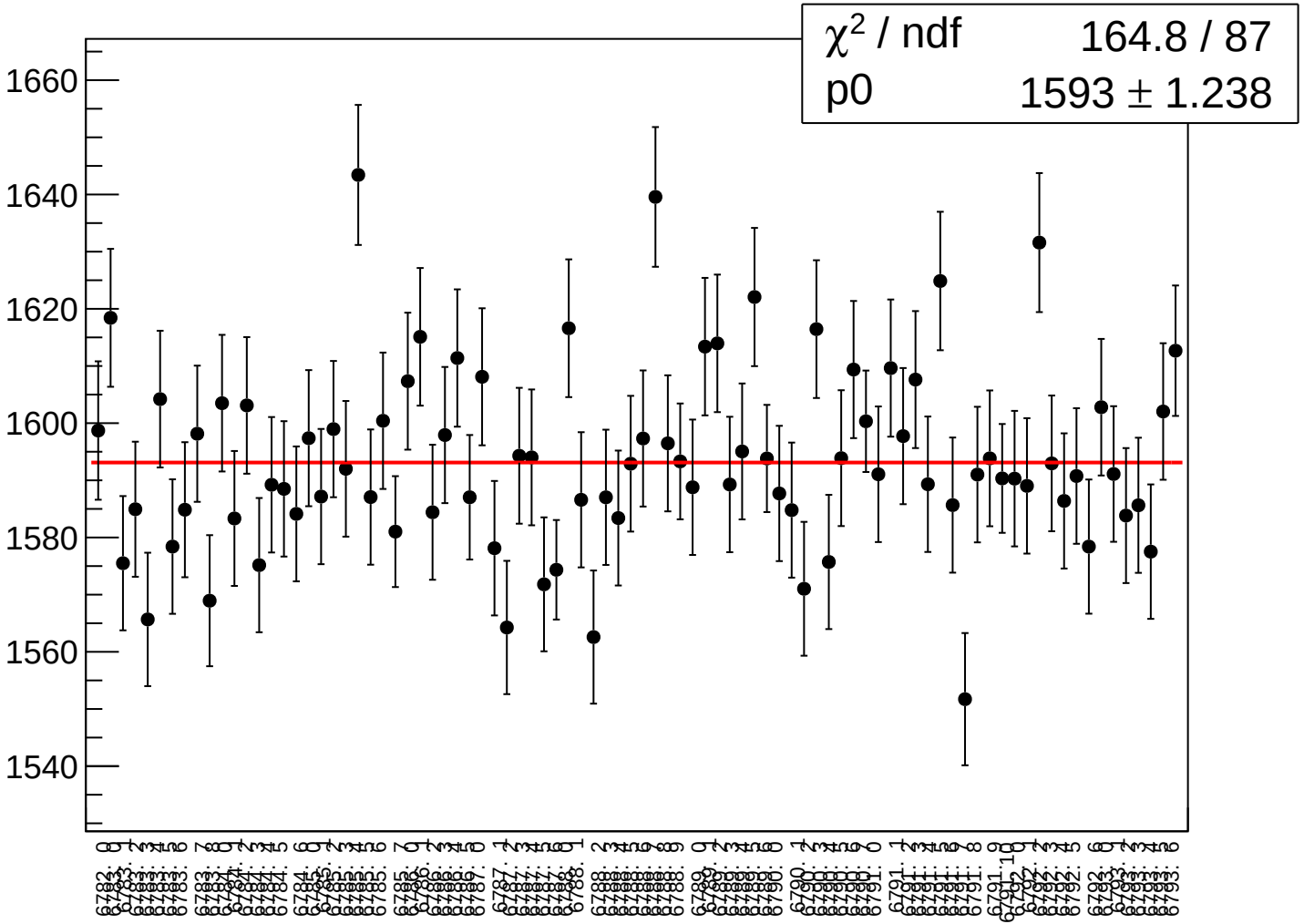

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.99 / 87
p0 4173 ± 6516
200
100
0
−100
−200
pull
Entries 88
Mean −3.15
Std Dev 0
2
1
0
−1
−2

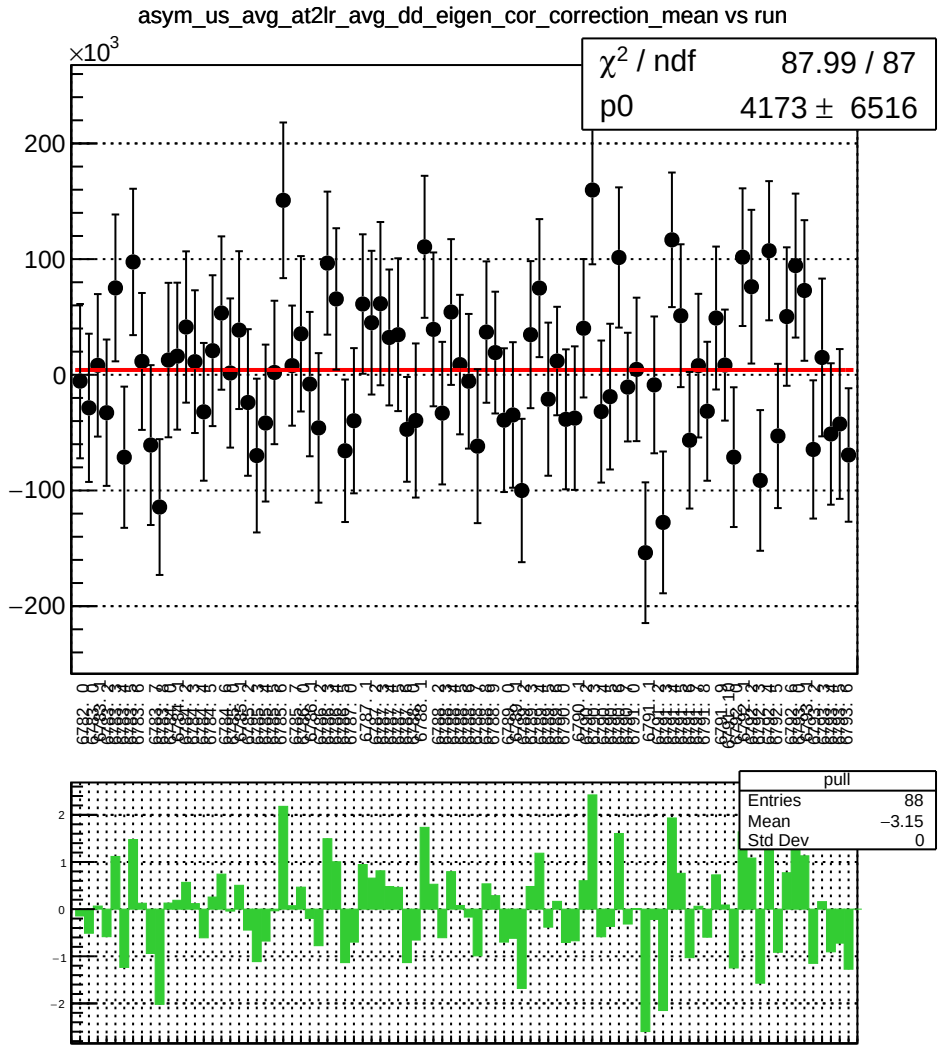

pull1D
Entries 88
Mean 0.007969
Std Dev 0.9999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

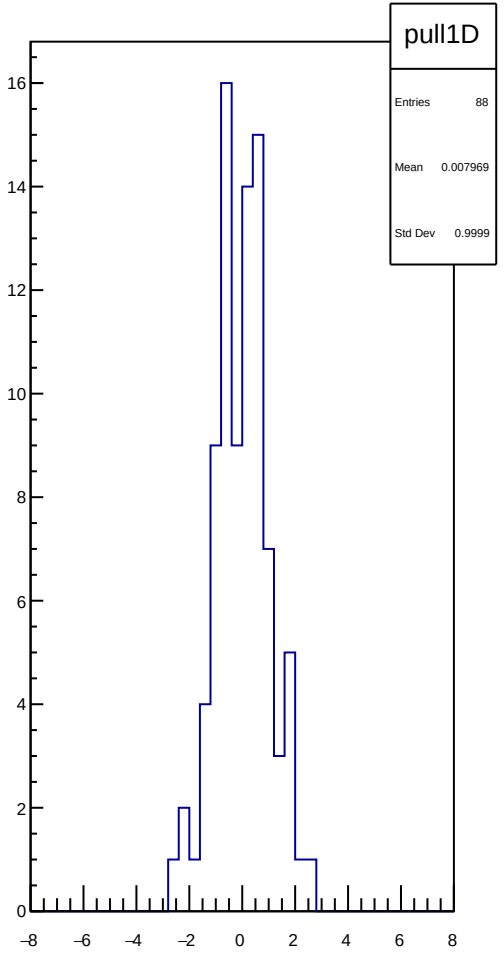

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3002 / 87
p0 5922 ± 4.608
6800
6600
6400
6200
6000
5800
5600
5400

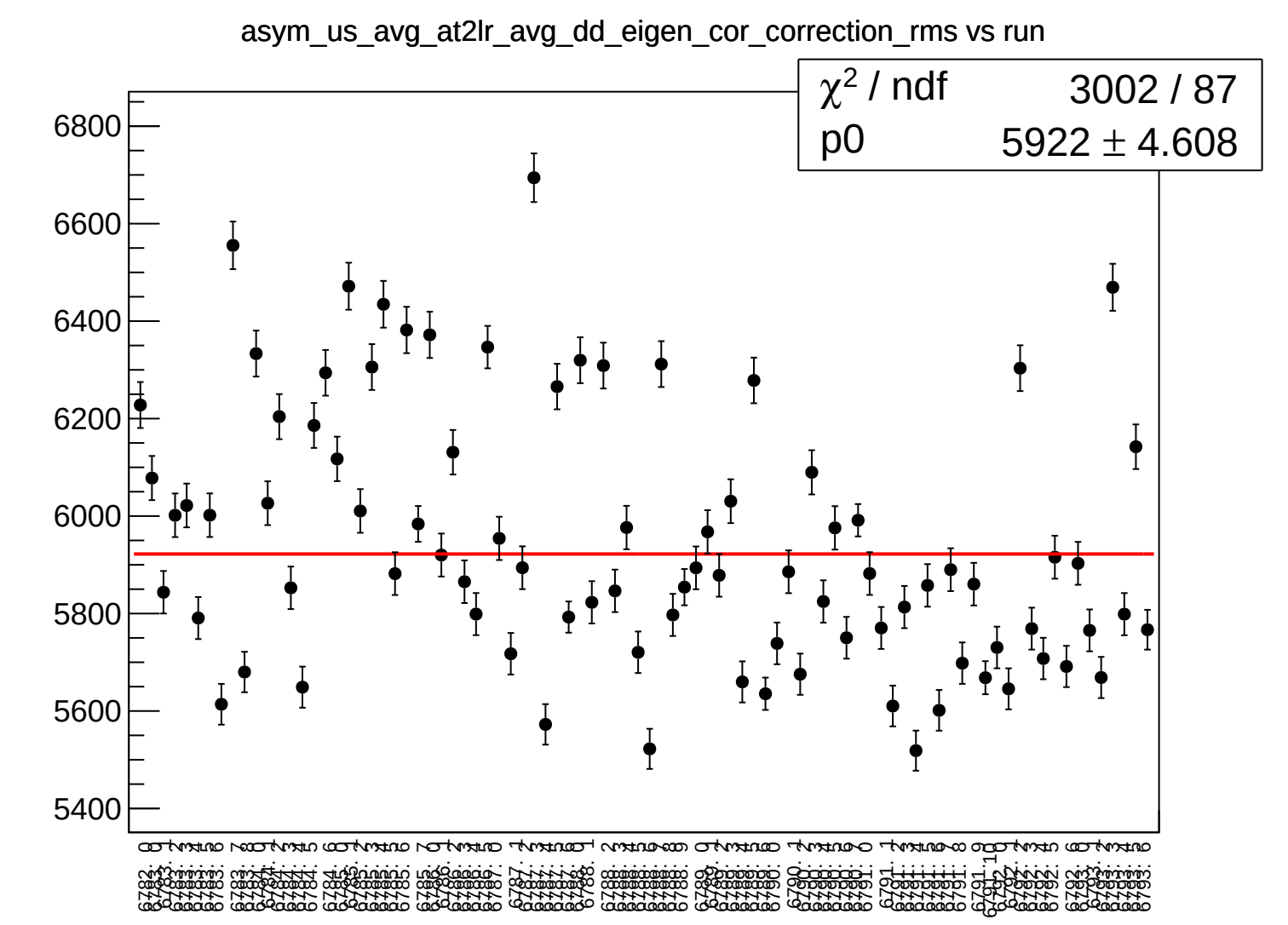

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 94.16 / 87
p0 3477 ± 1751
pull
Entries 88
Mean −301.4
Std Dev 0

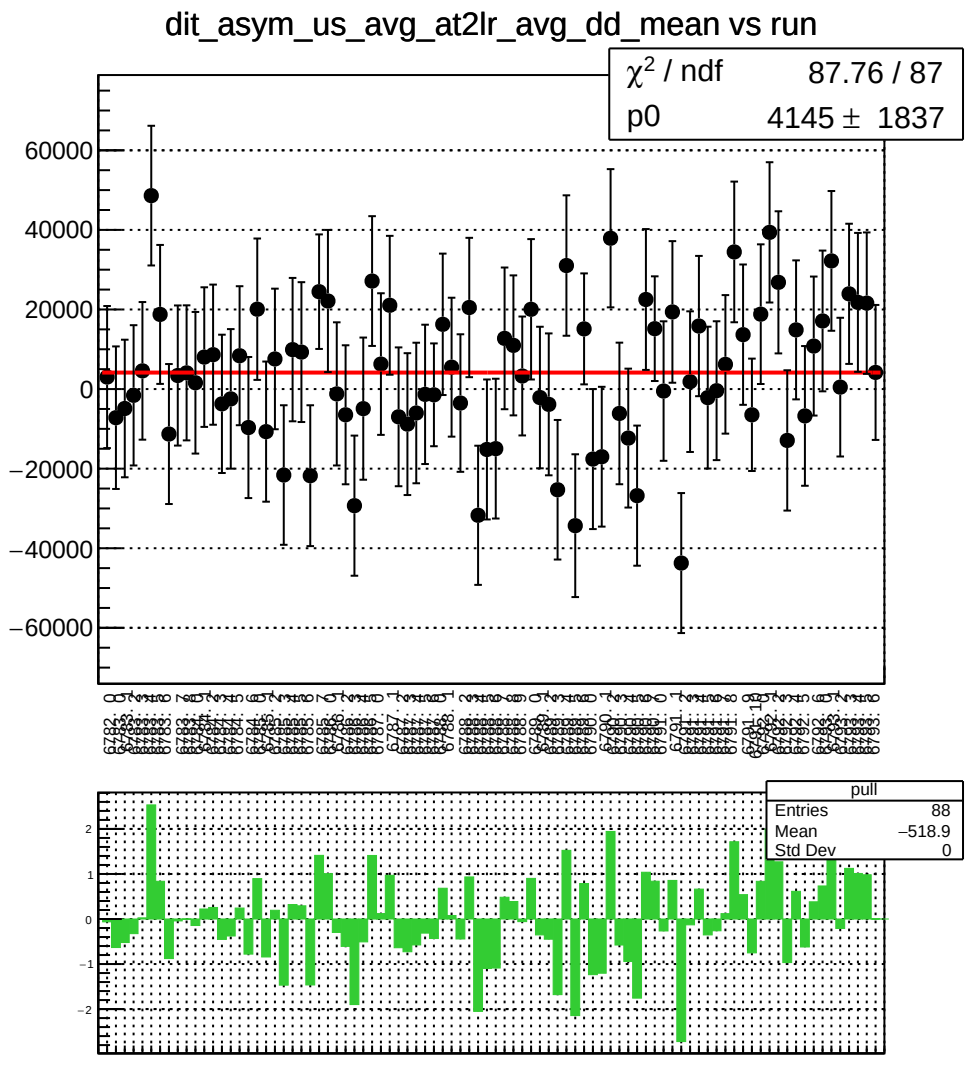

pull1D
Entries 88
Mean −0.008327
Std Dev 1.034

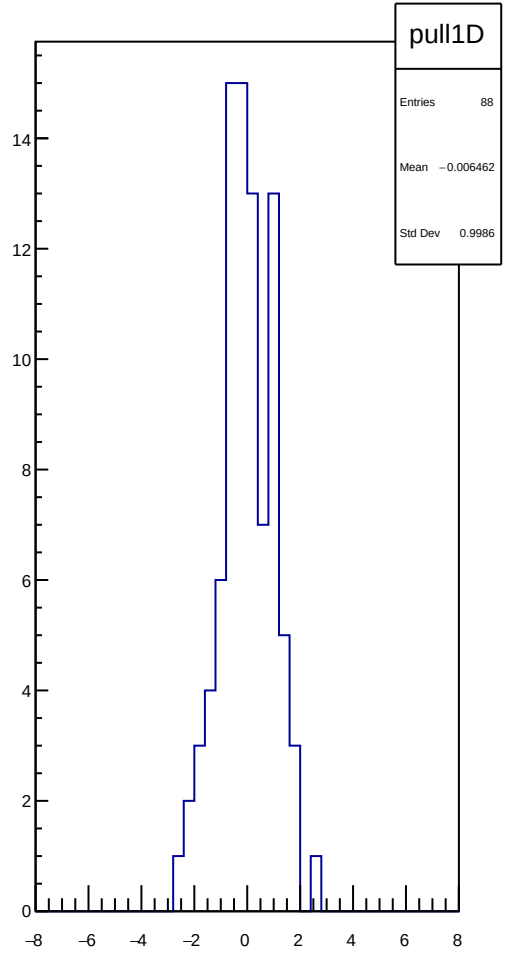

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 164.8 / 87
p0 1593 ± 1.238
1660
1640
1620
1600
1580
1560
1540

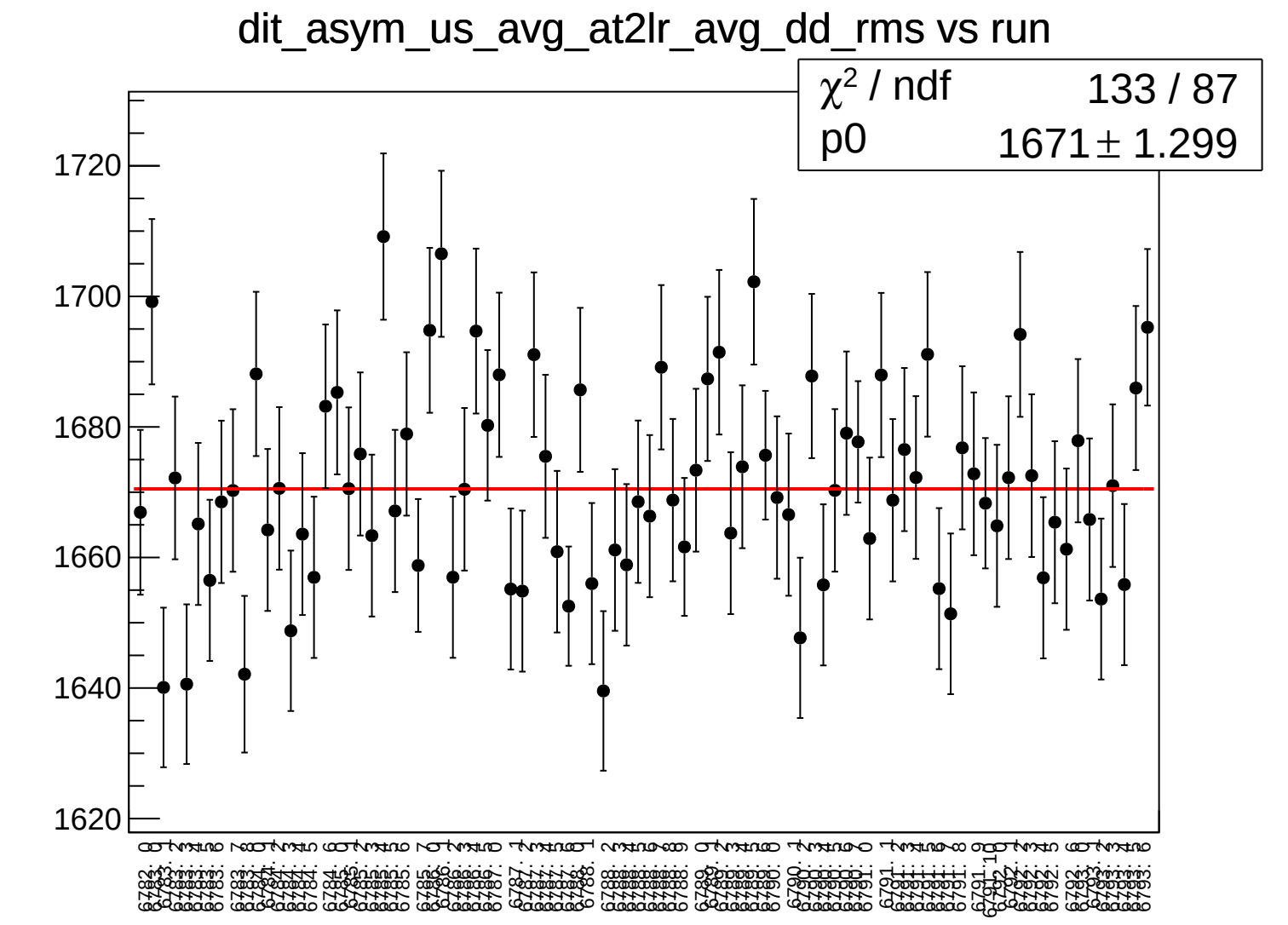

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.99 / 87
p0 4173 ± 6516
200
100
0
−100
−200
pull
Entries 88
Mean −3.15
Std Dev 0
2
1
0
−1
−2

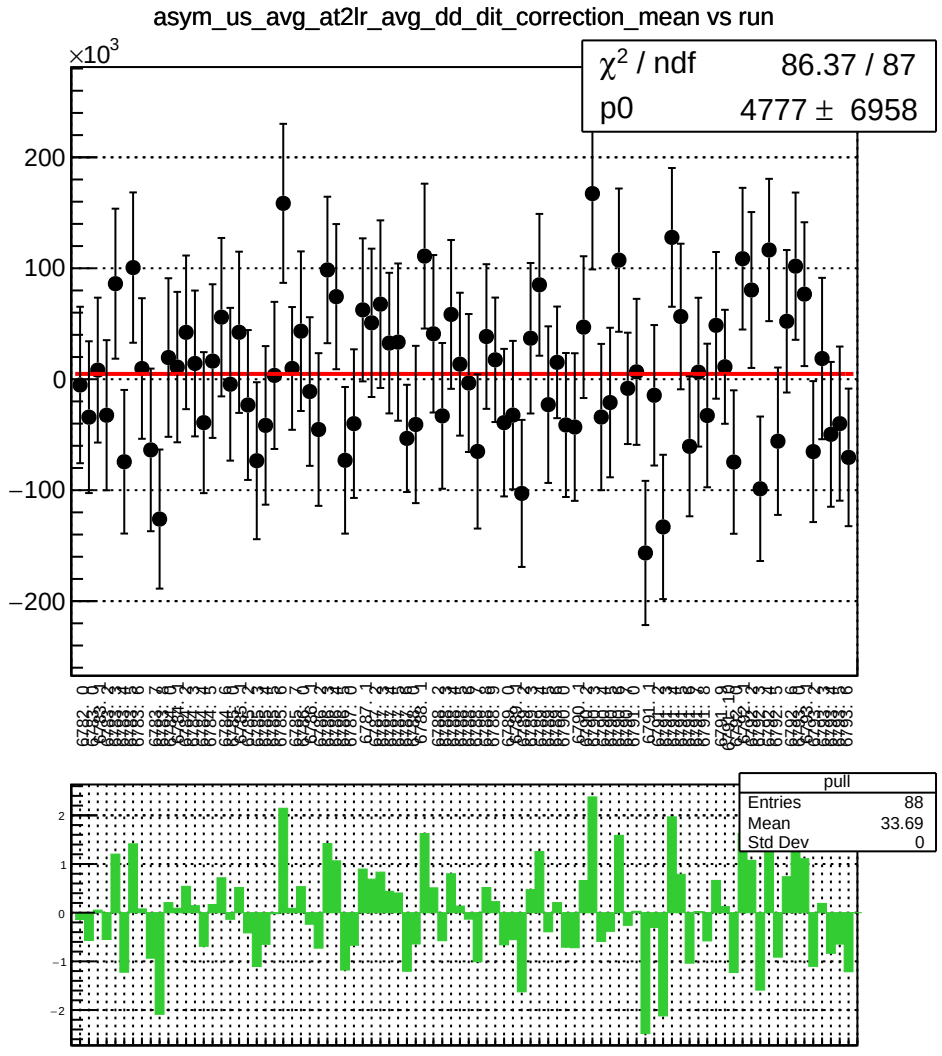

pull1D
Entries 88
Mean 0.007969
Std Dev 0.9999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

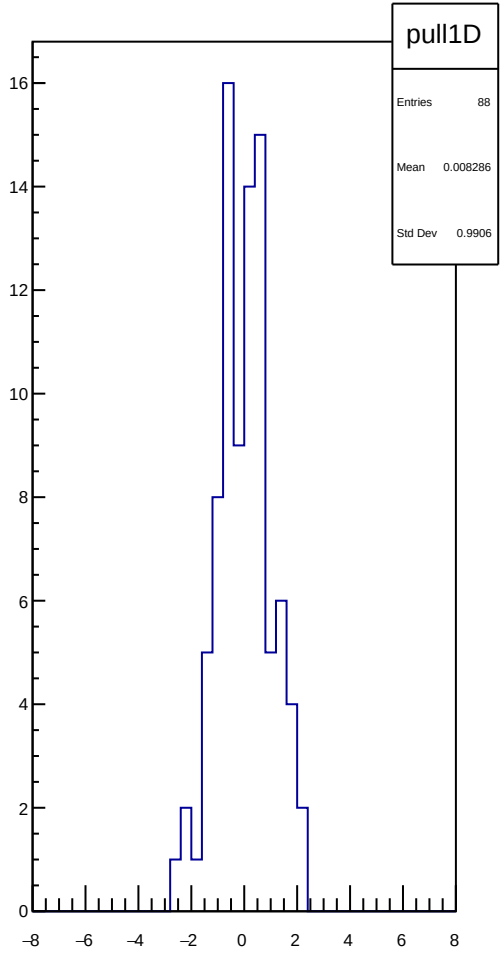

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3002 / 87
p0 5922 ± 4.608
6800
6600
6400
6200
6000
5800
5600
5400

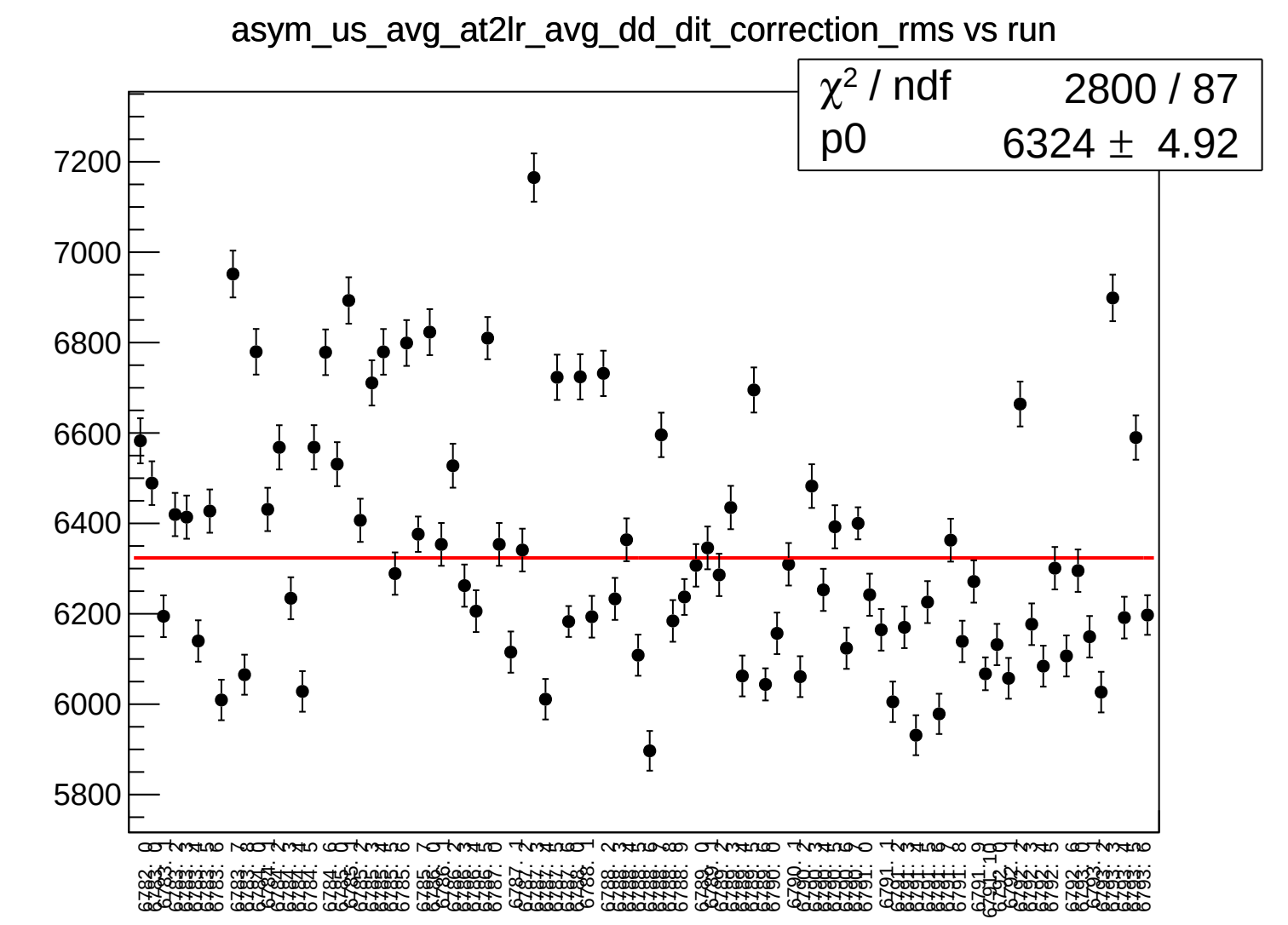

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ^2 / ndf 87.76 / 87
p0 4145 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −518.9
Std Dev 0
2
1
0
−1
−2

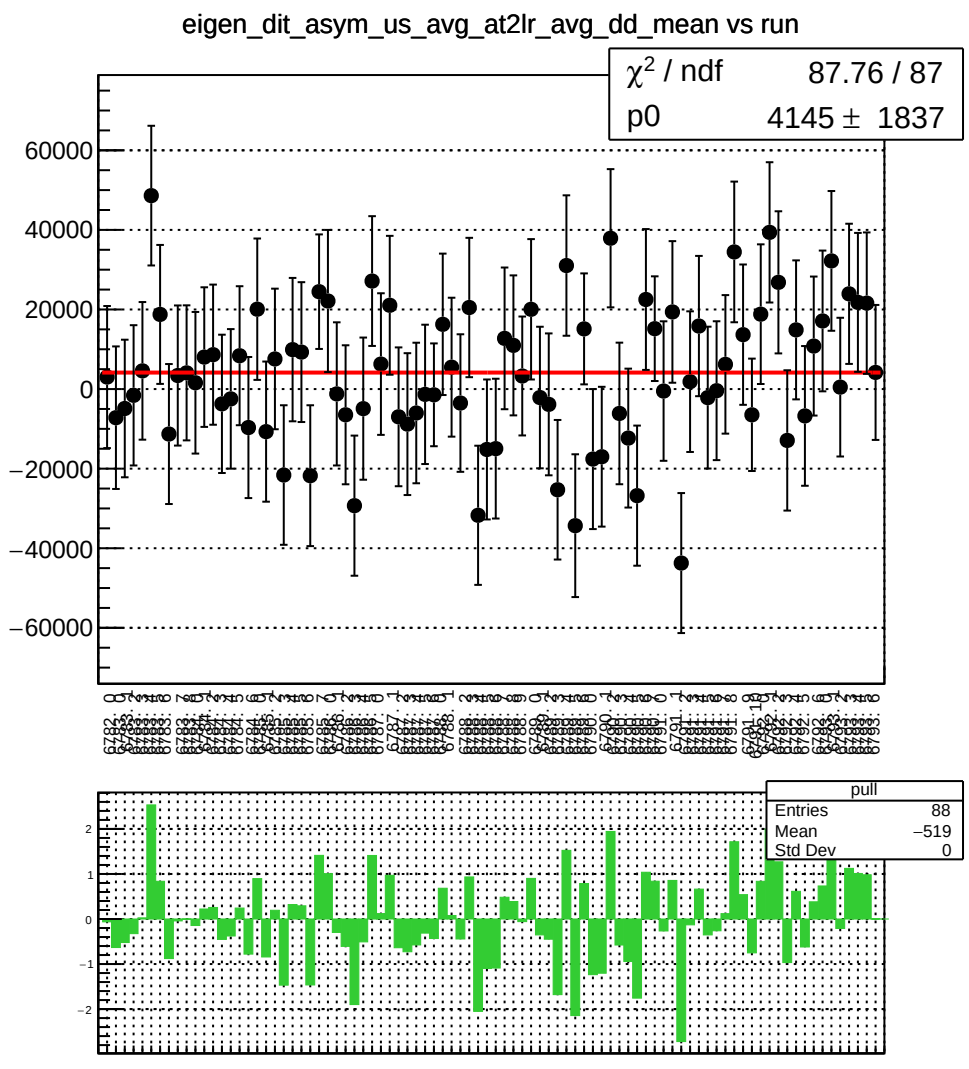

pull1D
Entries 88
Mean −0.006462
Std Dev 0.9986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

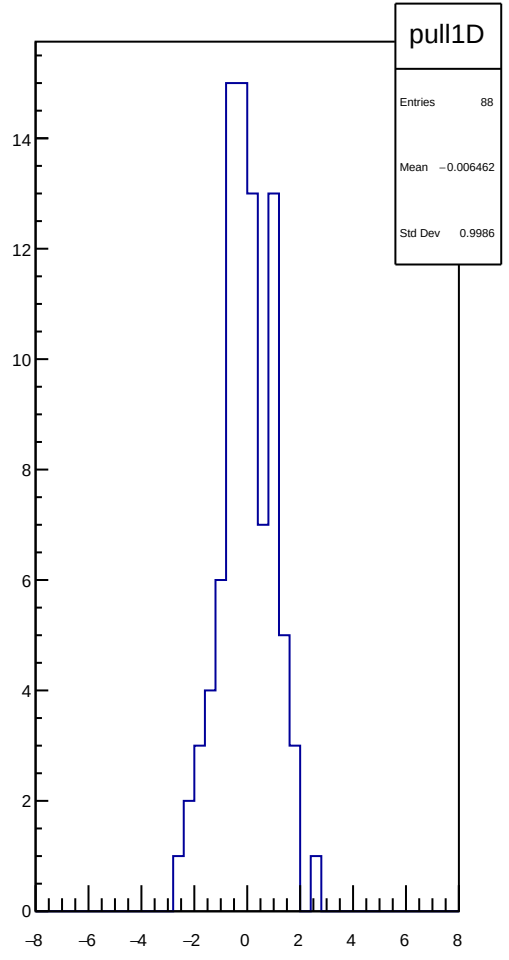

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 133 / 87
p0 1671 ± 1.299
1720
1700
1680
1660
1640
1620

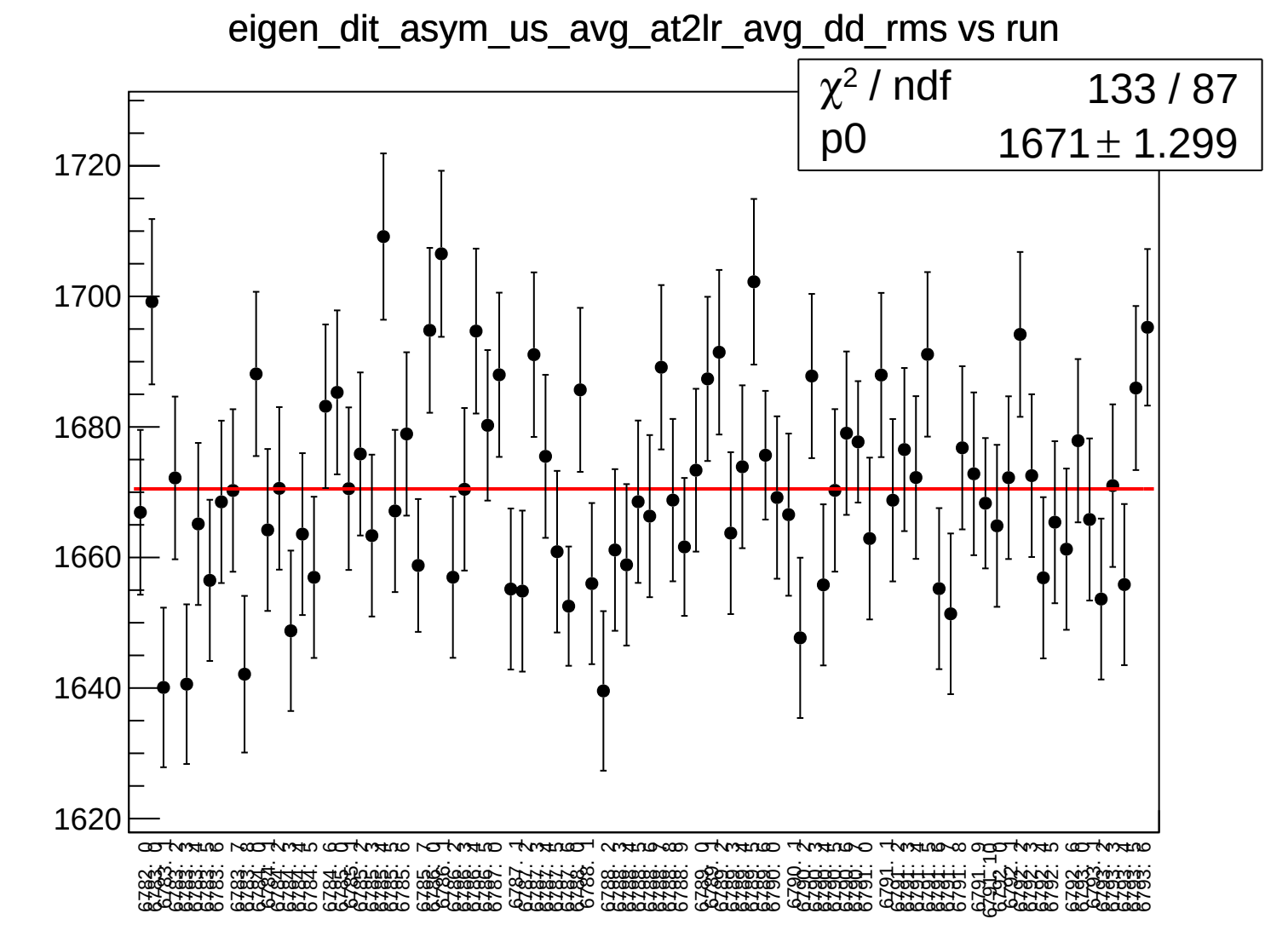

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.37 / 87
p0 4777 ± 6958
200
100
0
−100
−200
pull
Entries 88
Mean 33.69
Std Dev 0
2
1
0
−1
−2

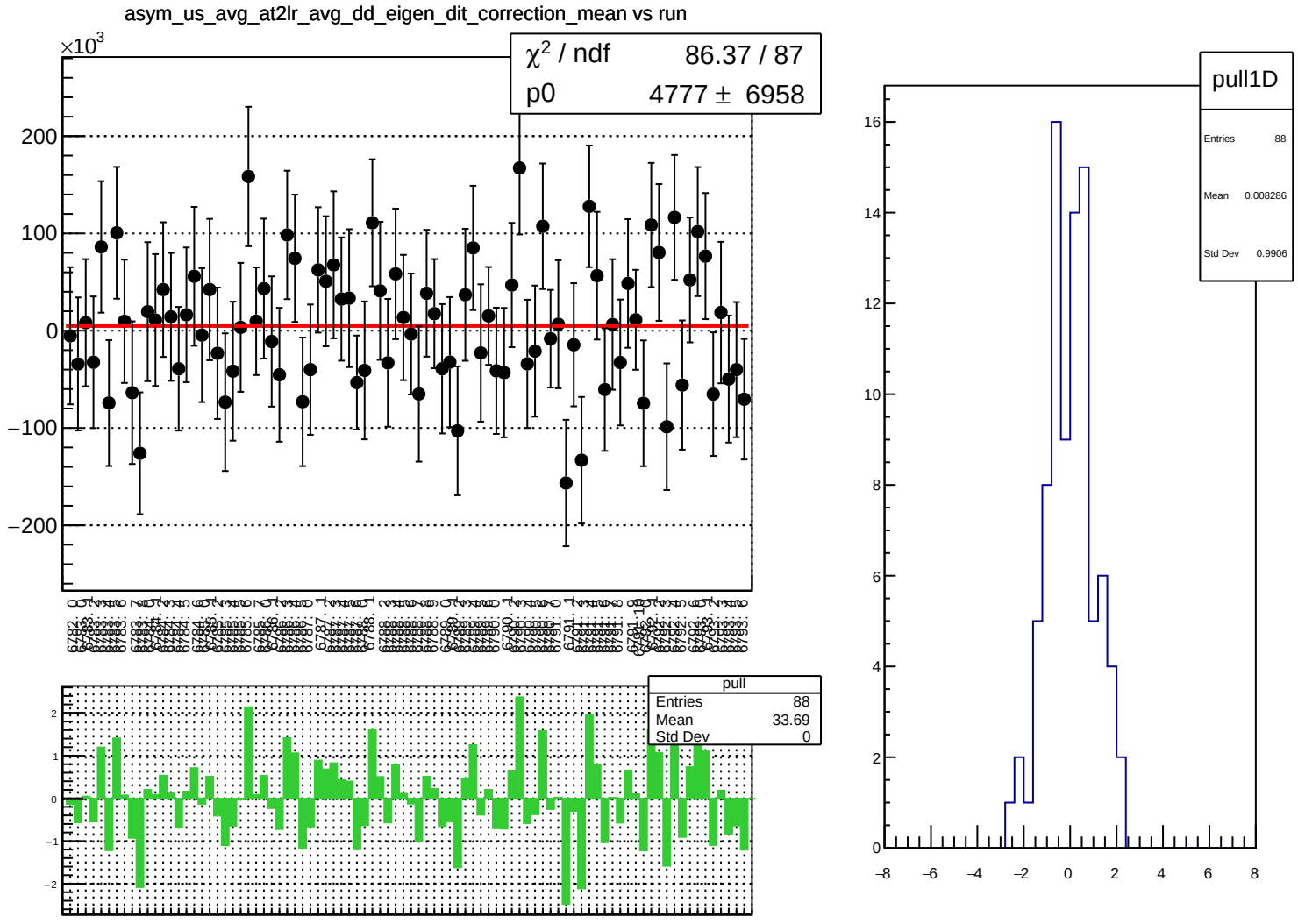

pull1D
Entries 88
Mean 0.008286
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

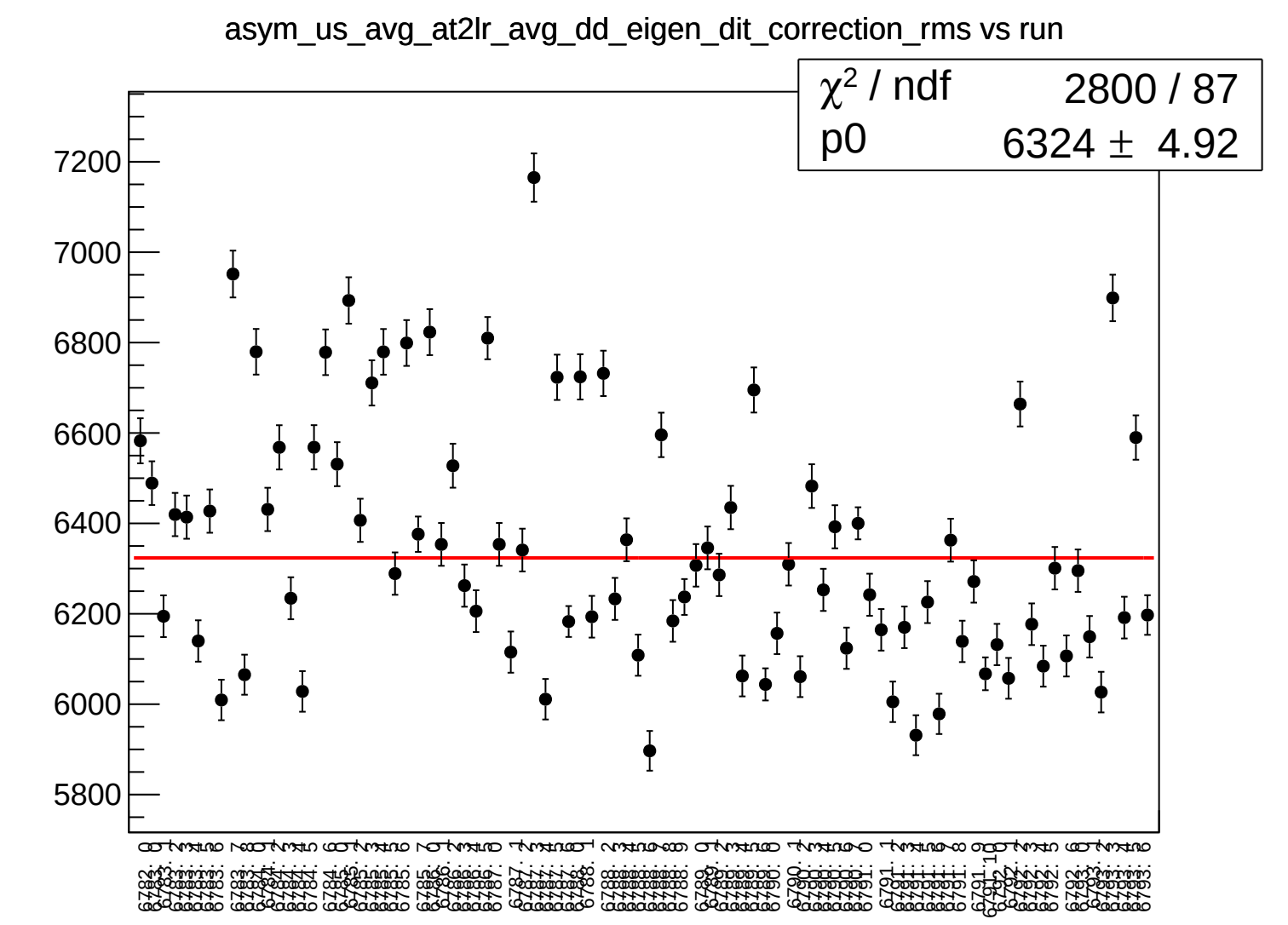

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2800 / 87
p0 6324 ± 4.92
7200
7000
6800
6600
6400
6200
6000
5800

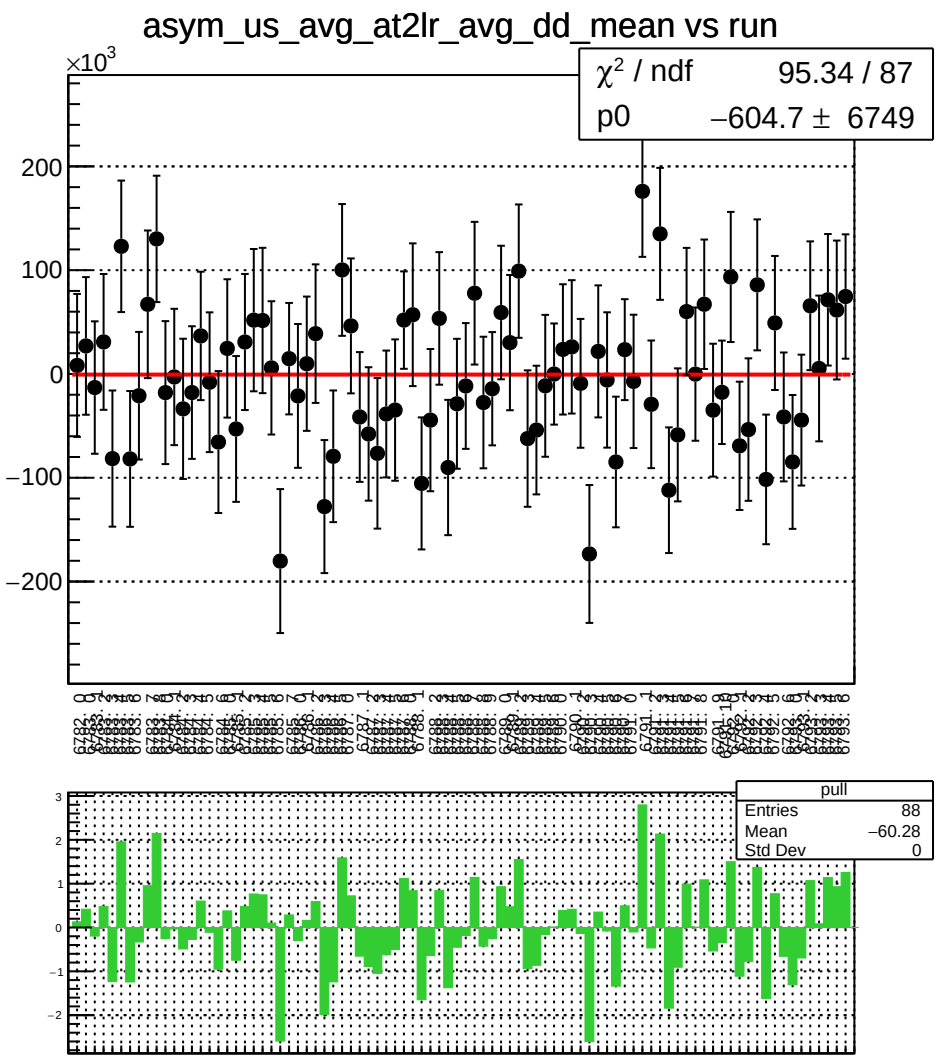

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 87.76 / 87
p0 4145 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −519
Std Dev 0
2
1
0
−1
−2

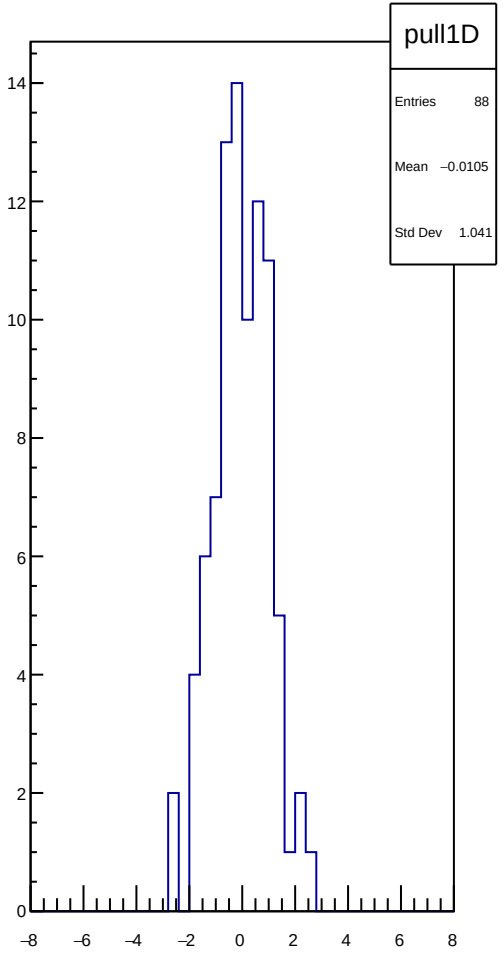

pull1D
Entries 88
Mean −0.006462
Std Dev 0.9986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

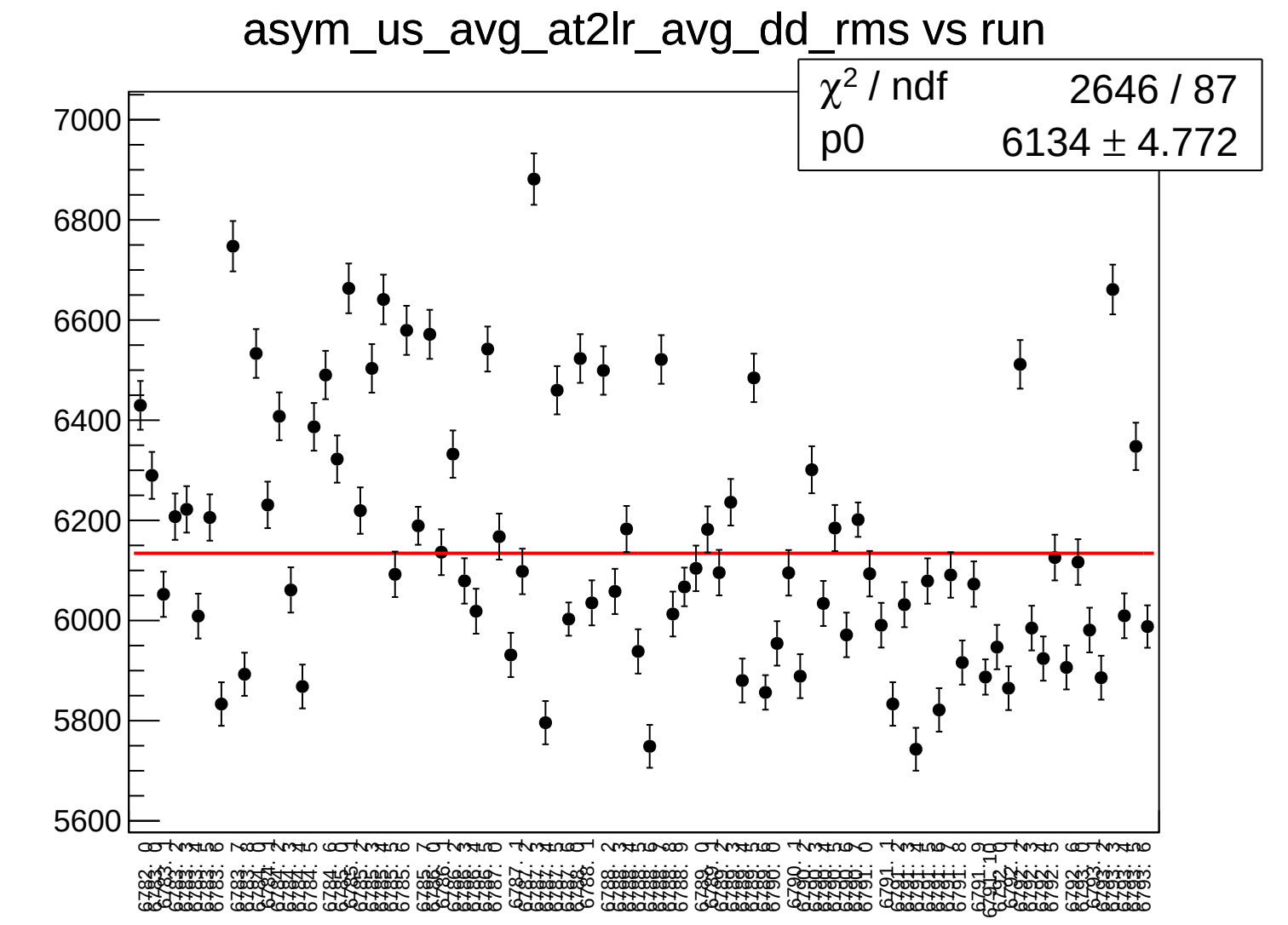

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 133 / 87
p0 1671 ± 1.299
1720
1700
1680
1660
1640
1620

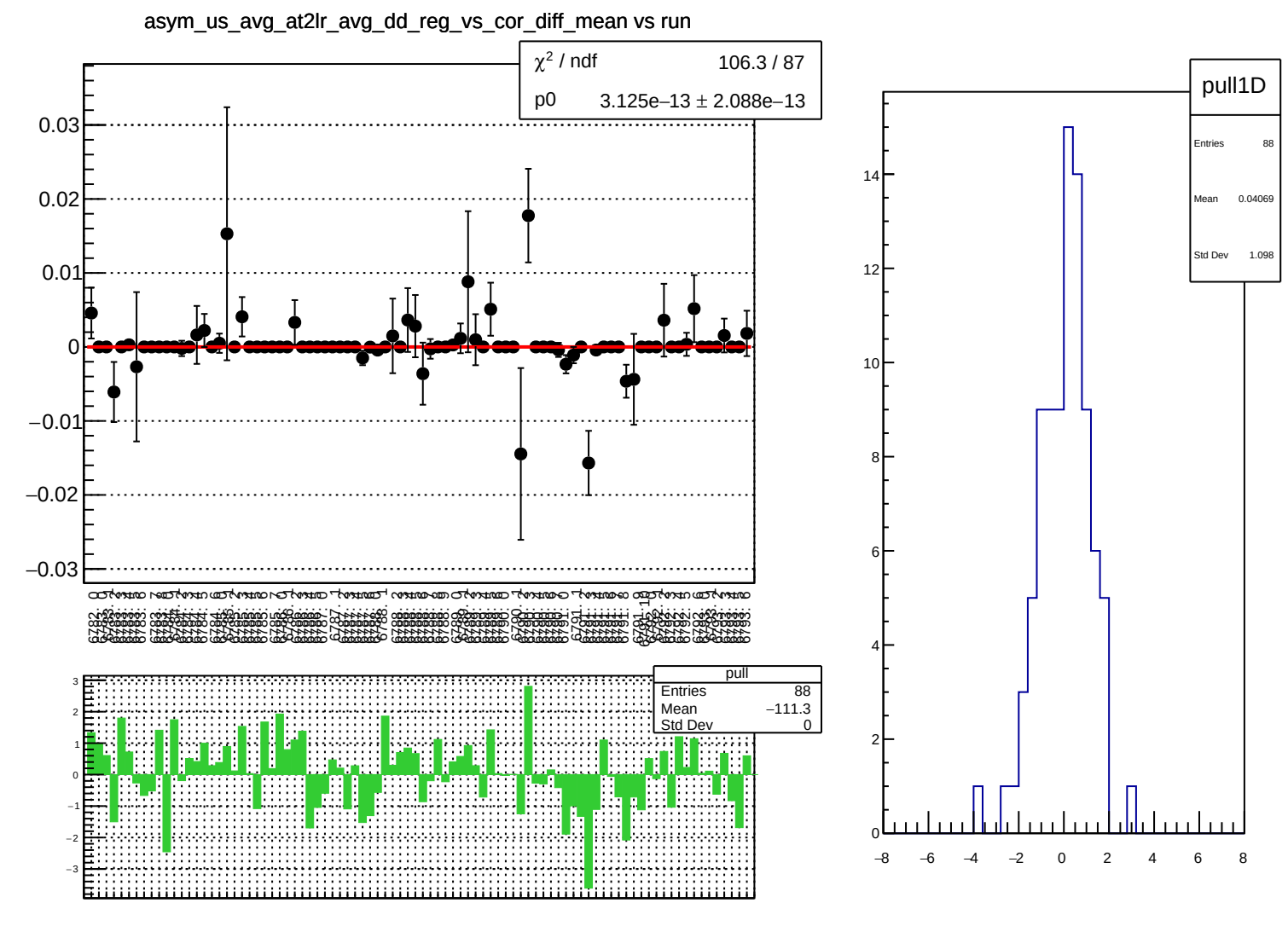

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.37 / 87
p0 4777 ± 6958
200
100
0
−100
−200
pull
Entries 88
Mean 33.69
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008286
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

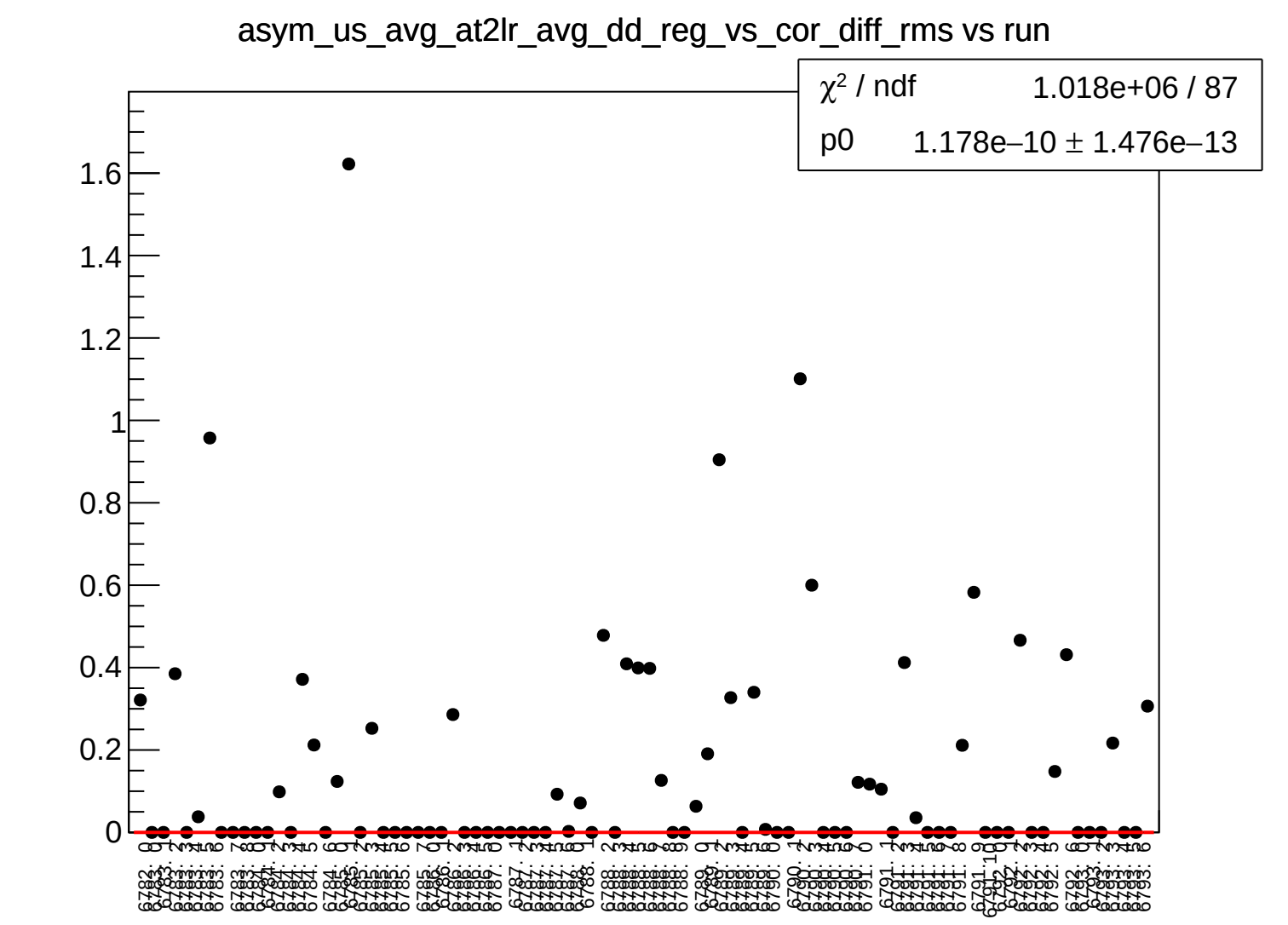

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2800 / 87
p0 6324 ± 4.92
7200
7000
6800
6600
6400
6200
6000
5800

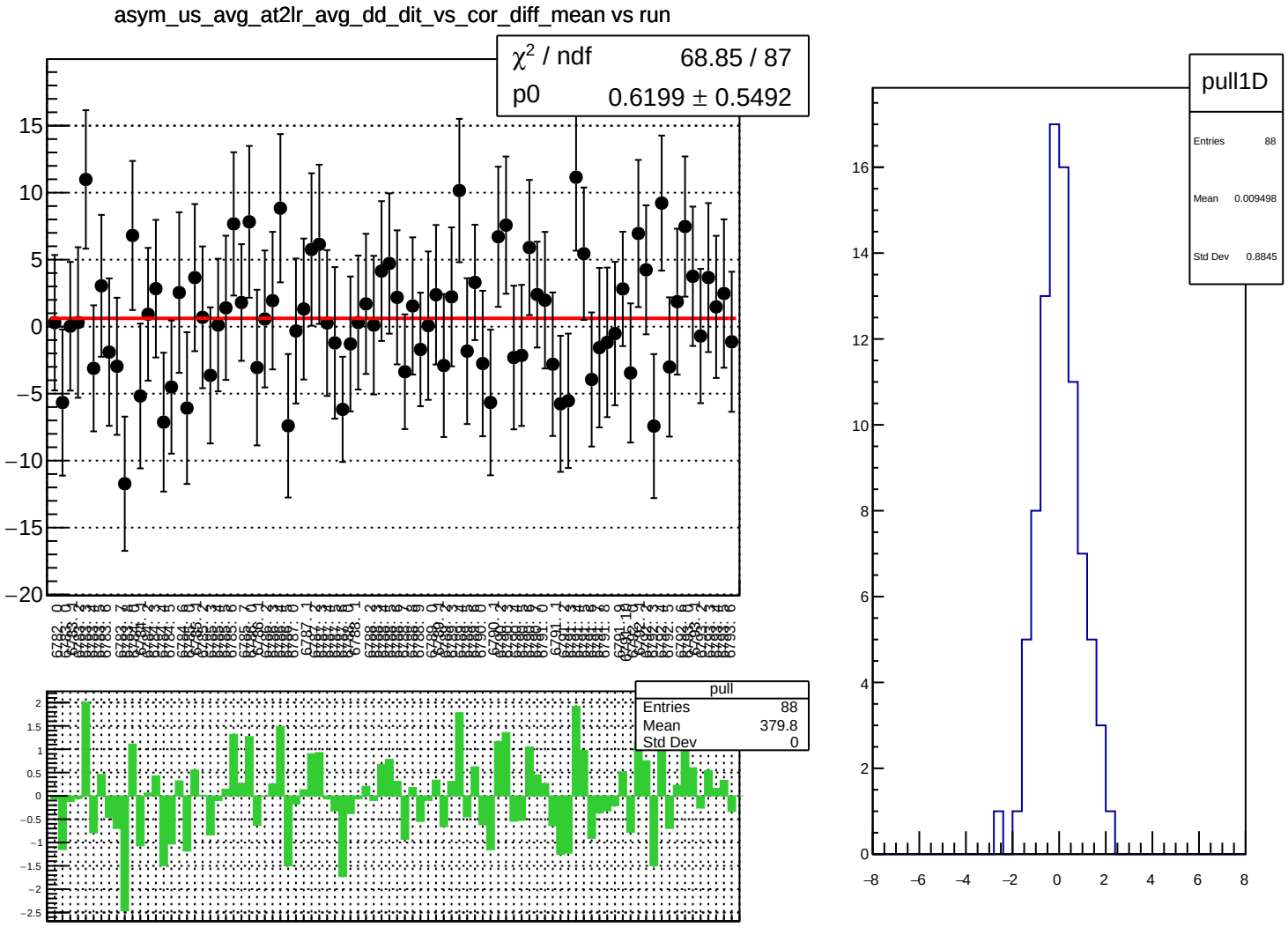

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 95.34 / 87
p0 −604.7 ± 6749
200
100
0
−100
−200
pull
Entries 88
Mean −60.28
Std Dev 0
3
2
1
0
−1
−2

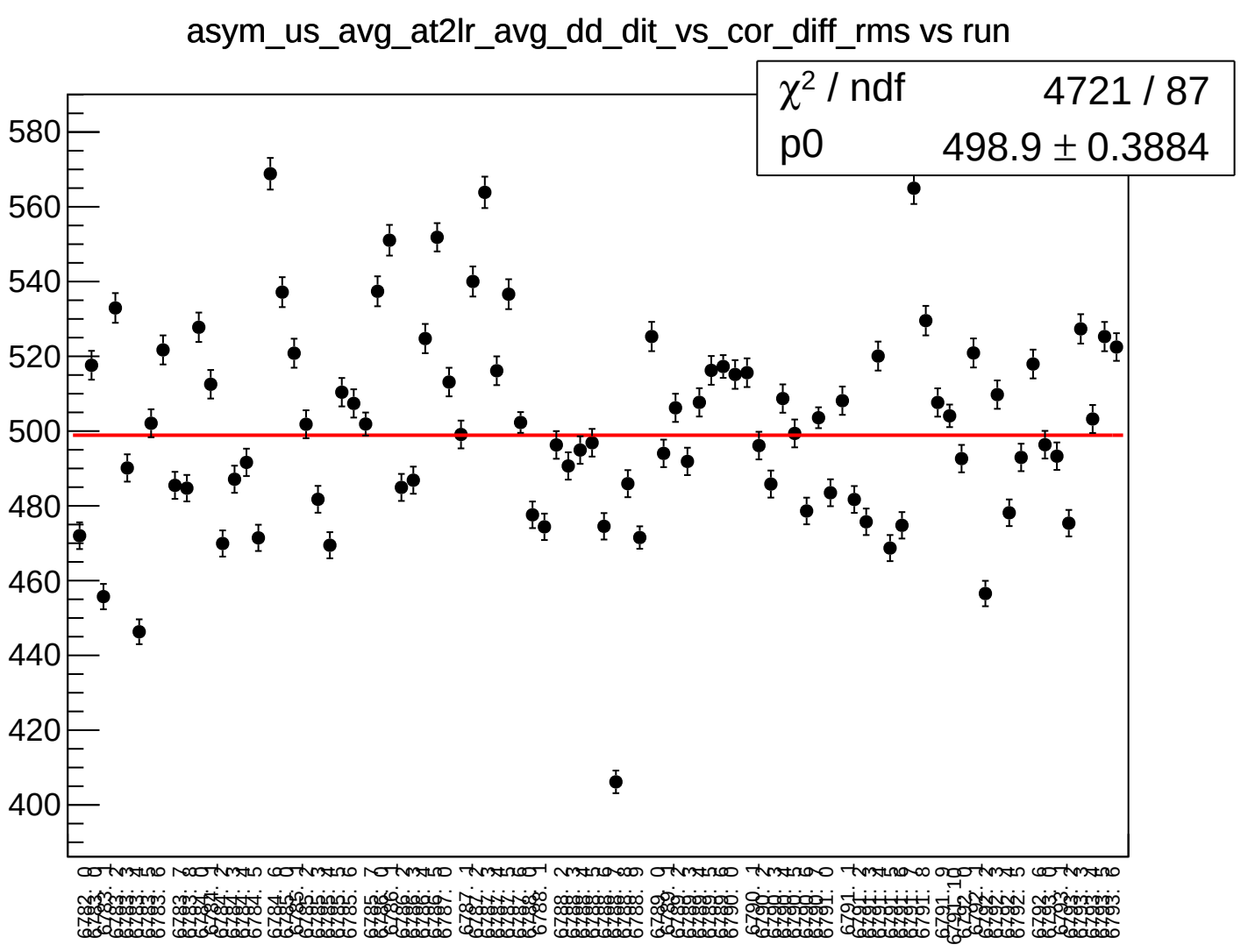

pull1D
Entries 88
Mean −0.0105
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

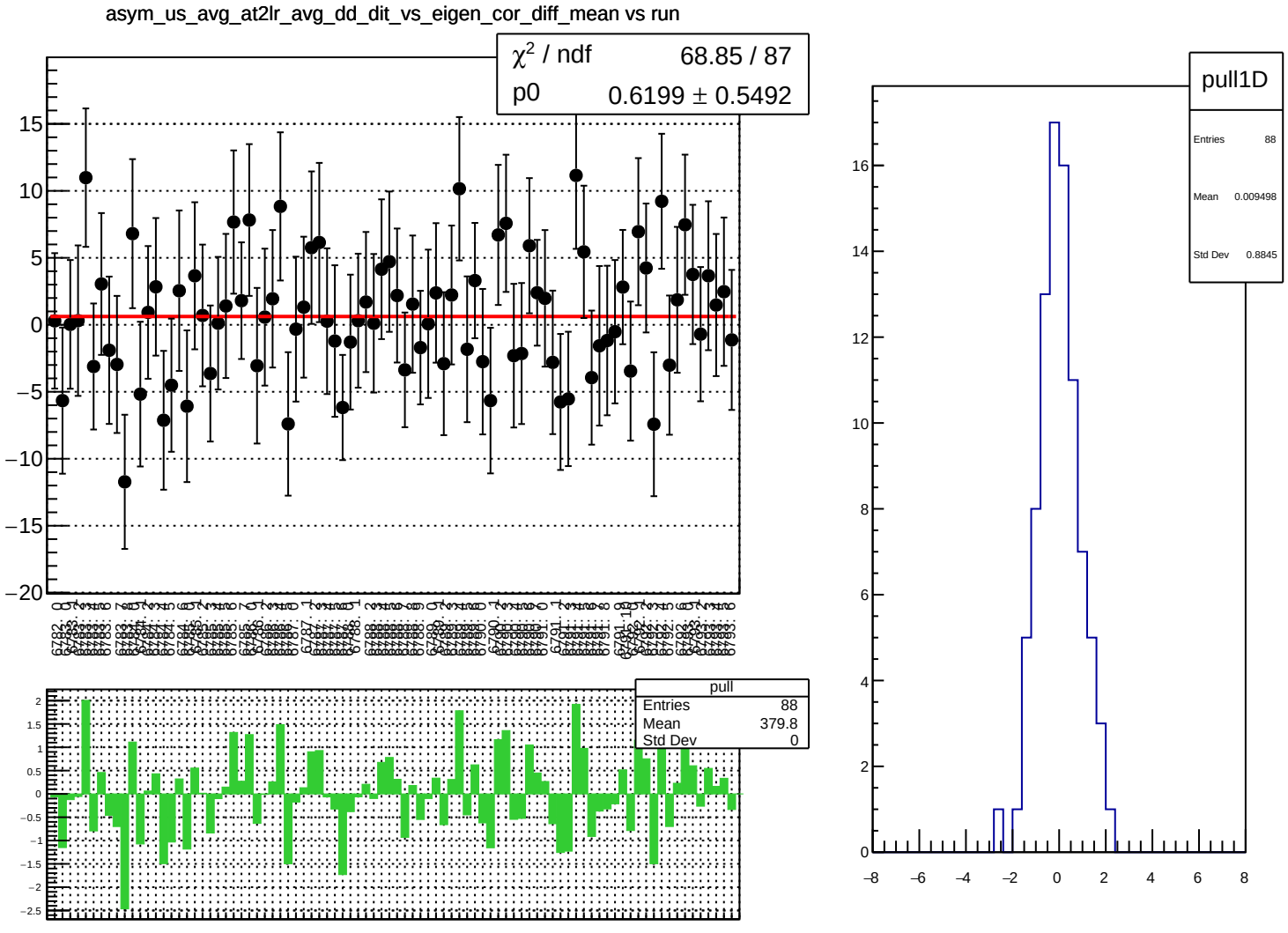

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2646 / 87
p0 6134 ± 4.772
7000
6800
6600
6400
6200
6000
5800
5600

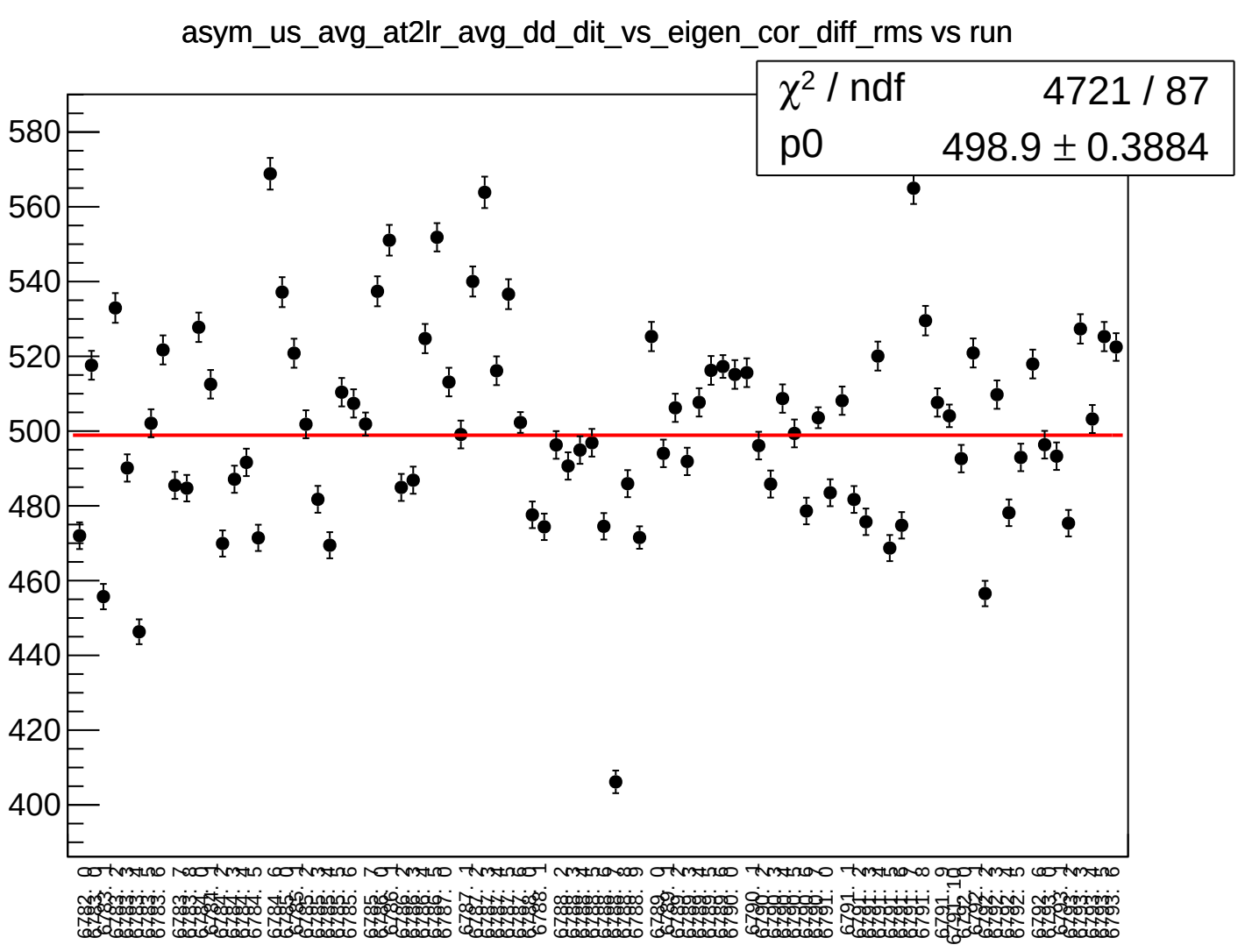

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 87
p0 3.125e−13 ± 2.088e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −111.3
Std Dev 0
pull1D
Entries 88
Mean 0.04069
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

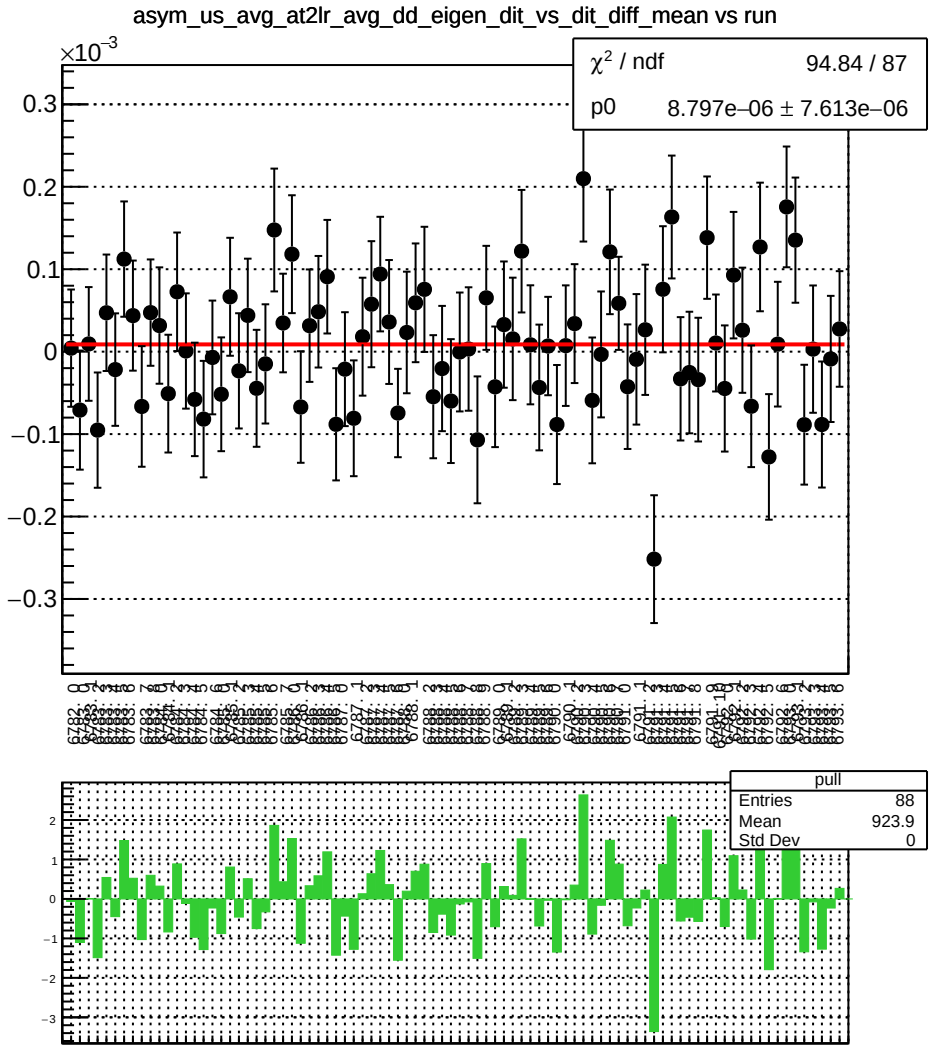

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 87
p0 1.178e−10 ± 1.476e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

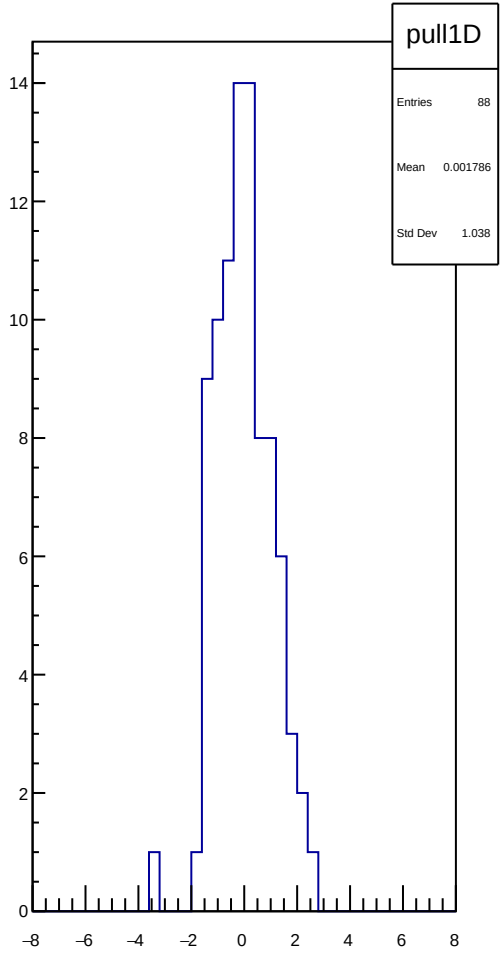

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.85 / 87
p0 0.6199 ± 0.5492
pull
Entries 88
Mean 379.8
Std Dev 0
pull1D
Entries 88
Mean 0.009498
Std Dev 0.8845

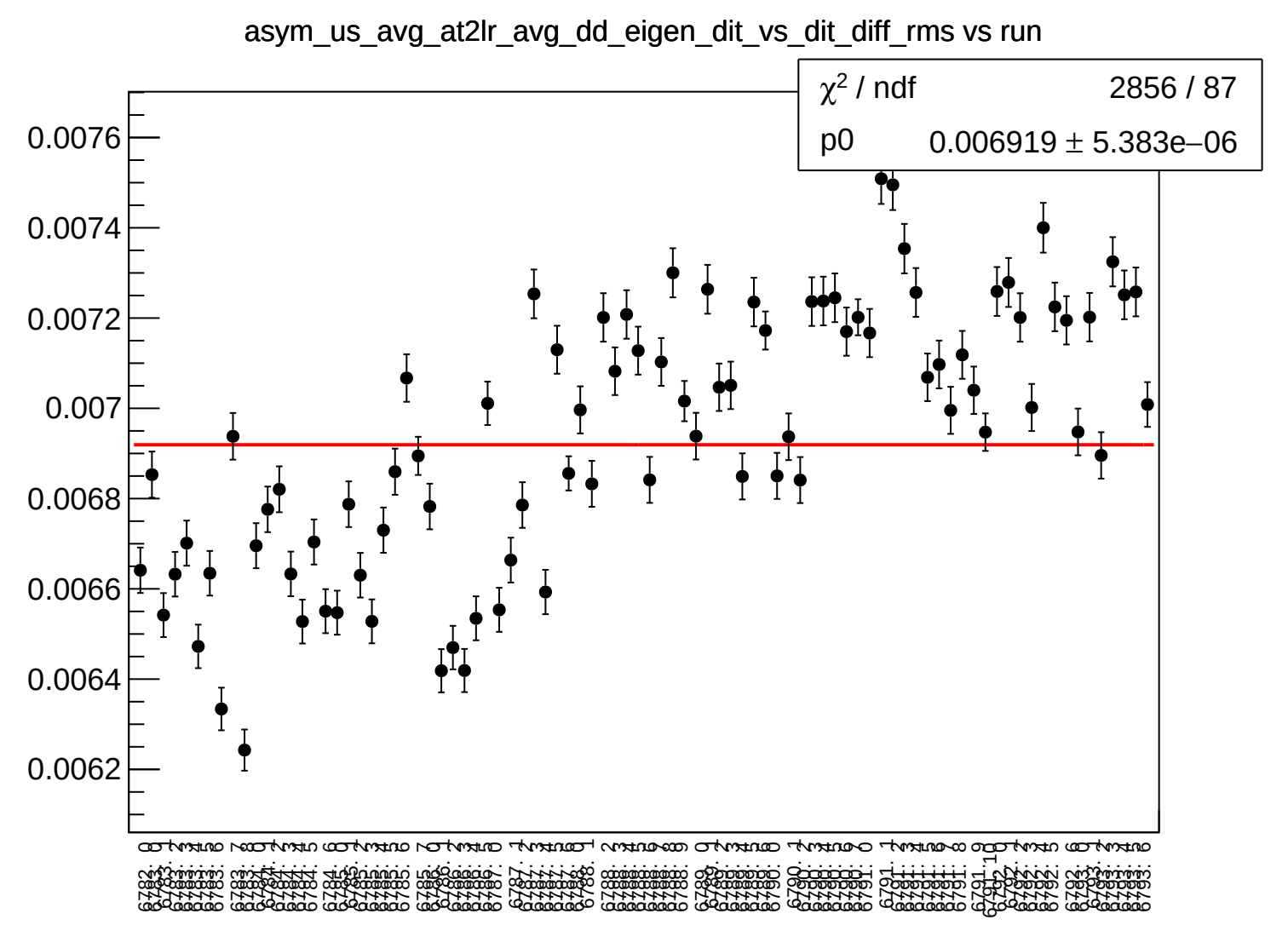

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4721 / 87
p0 498.9 ± 0.3884
580
560
540
520
500
480
460
440
420
400

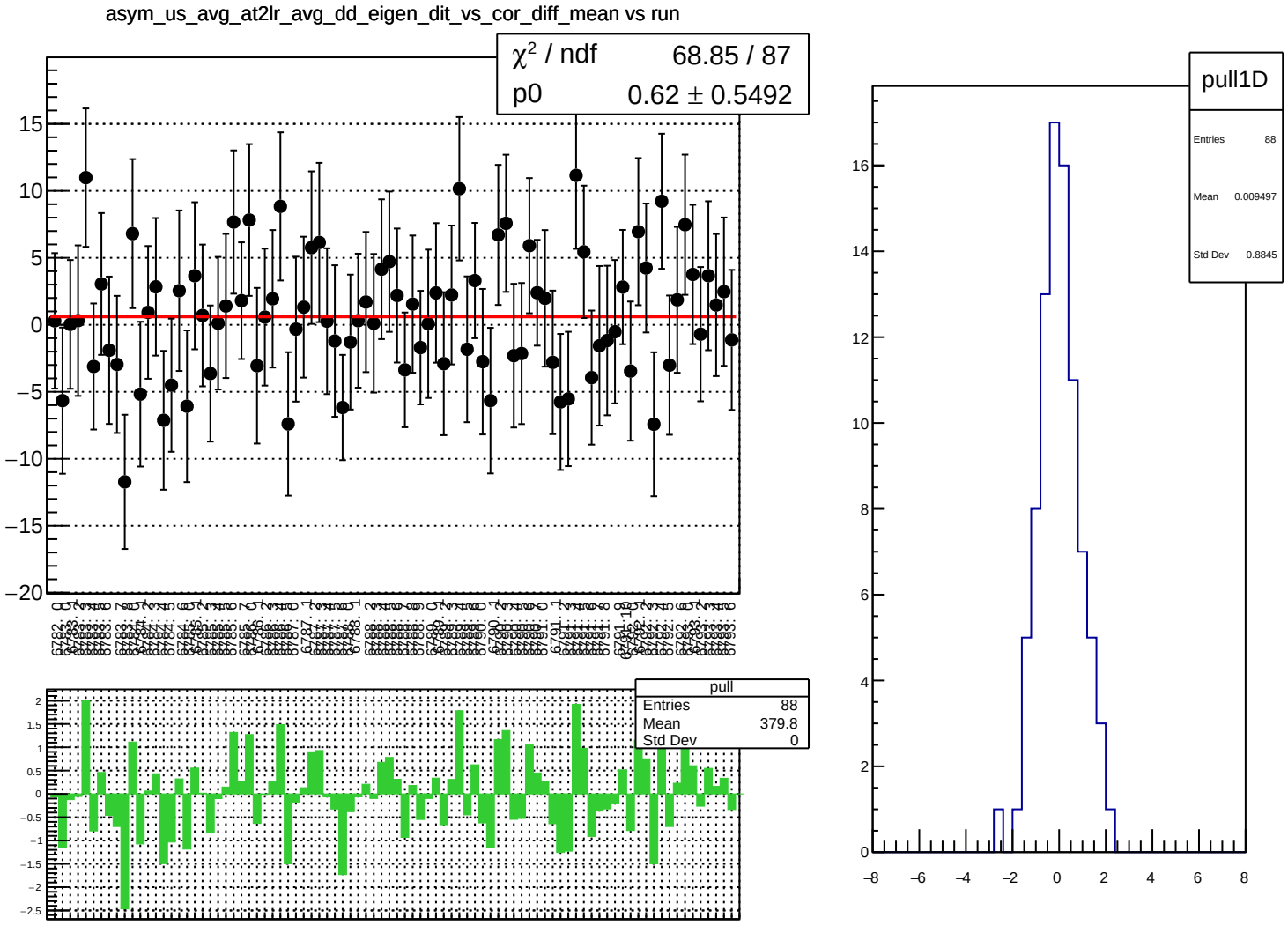

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.85 / 87
p0 0.6199 ± 0.5492
pull
Entries 88
Mean 379.8
Std Dev 0
pull1D
Entries 88
Mean 0.009498
Std Dev 0.8845

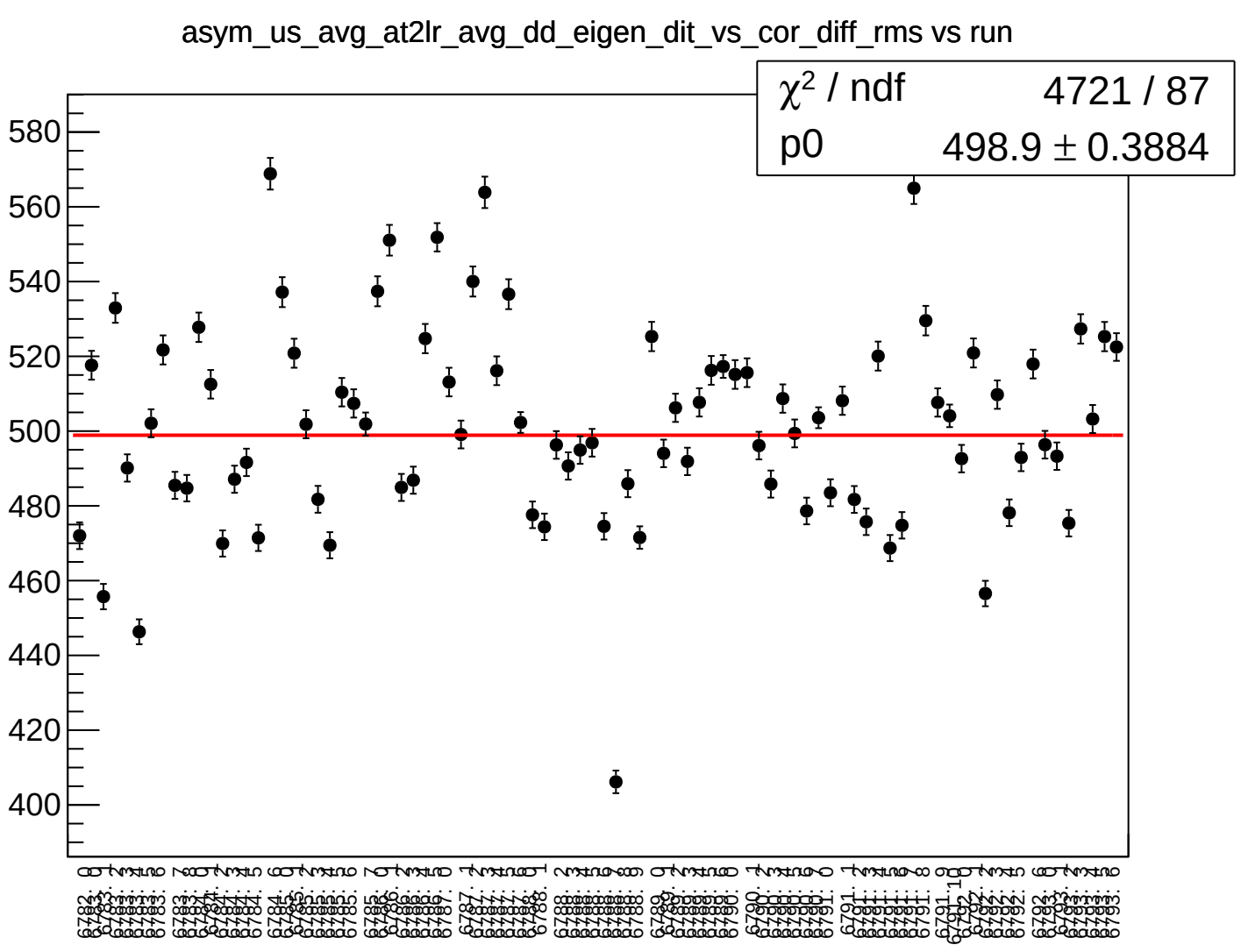

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4721 / 87
p0 498.9 ± 0.3884
580
560
540
520
500
480
460
440
420
400

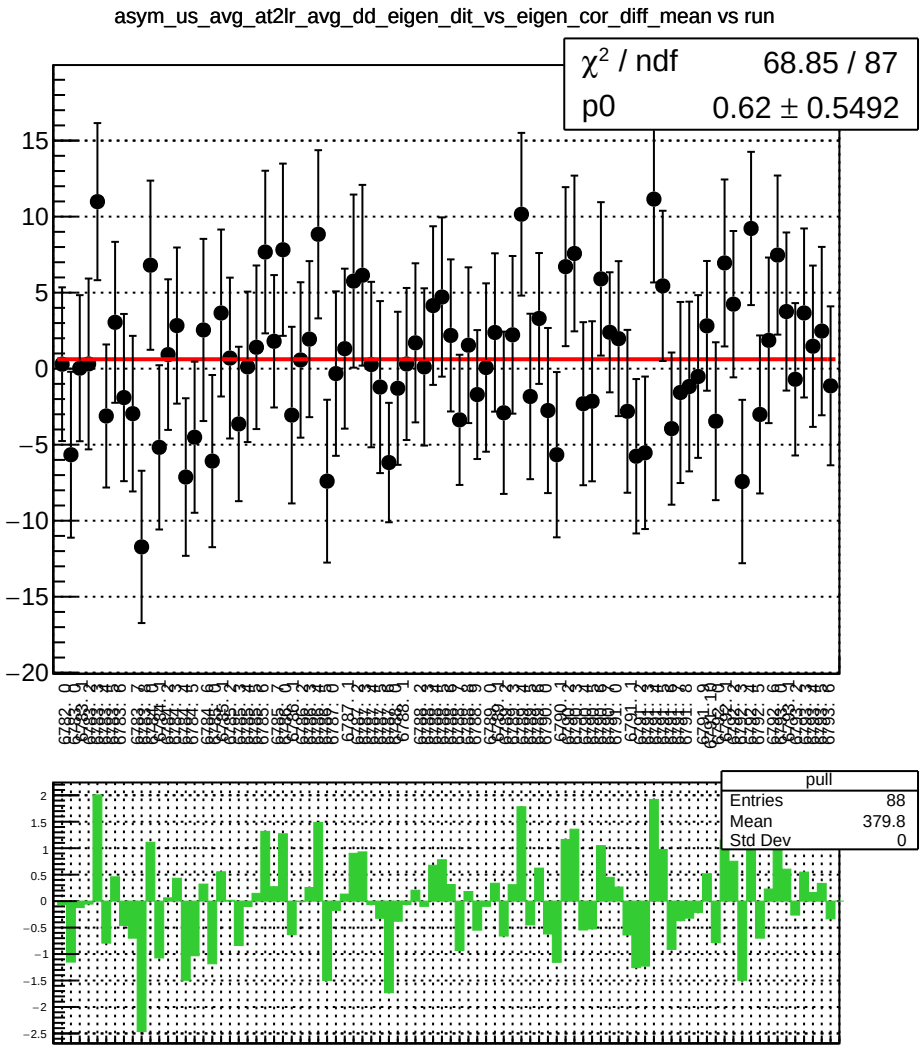

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.84 / 87
p0 8.797e−06 ± 7.613e−06
pull
Entries 88
Mean 923.9
Std Dev 0

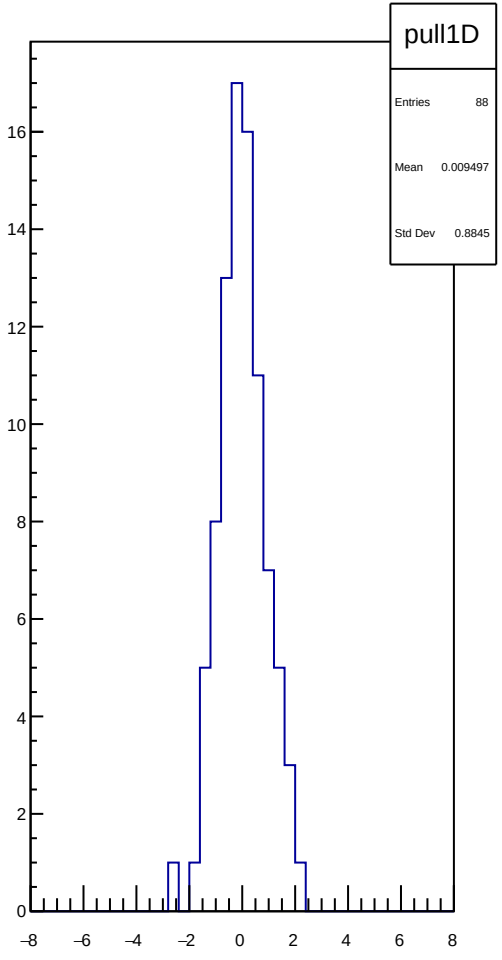

pull1D
Entries 88
Mean 0.001786
Std Dev 1.038

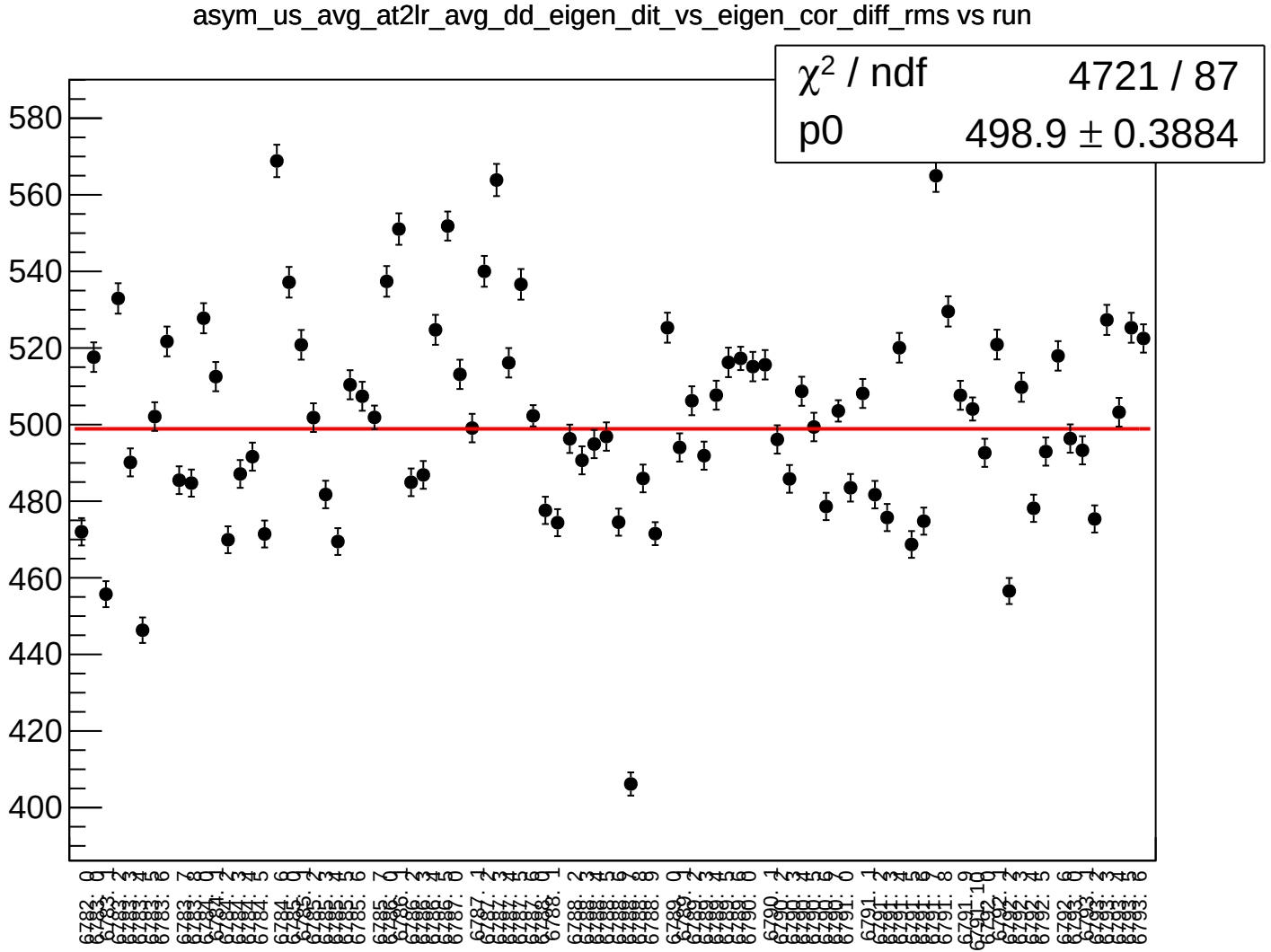

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2856 / 87
p0 0.006919 ± 5.383e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

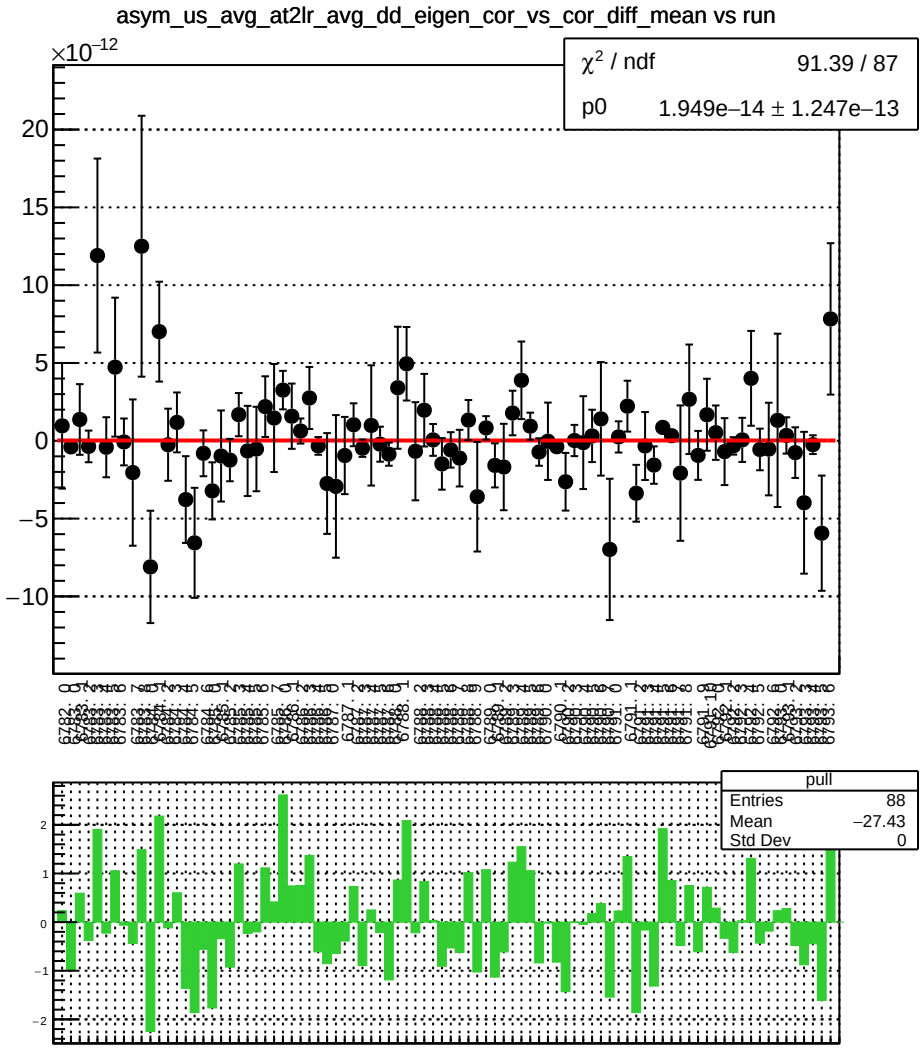

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.85 / 87
p0 0.62 ± 0.5492
pull
Entries 88
Mean 379.8
Std Dev 0
pull1D
Entries 88
Mean 0.009497
Std Dev 0.8845

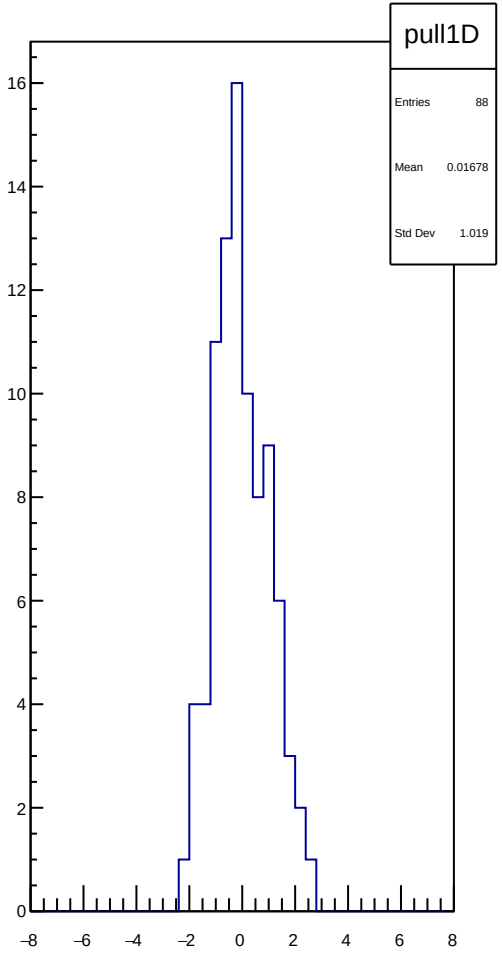

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4721 / 87
p0 498.9 ± 0.3884
580
560
540
520
500
480
460
440
420
400

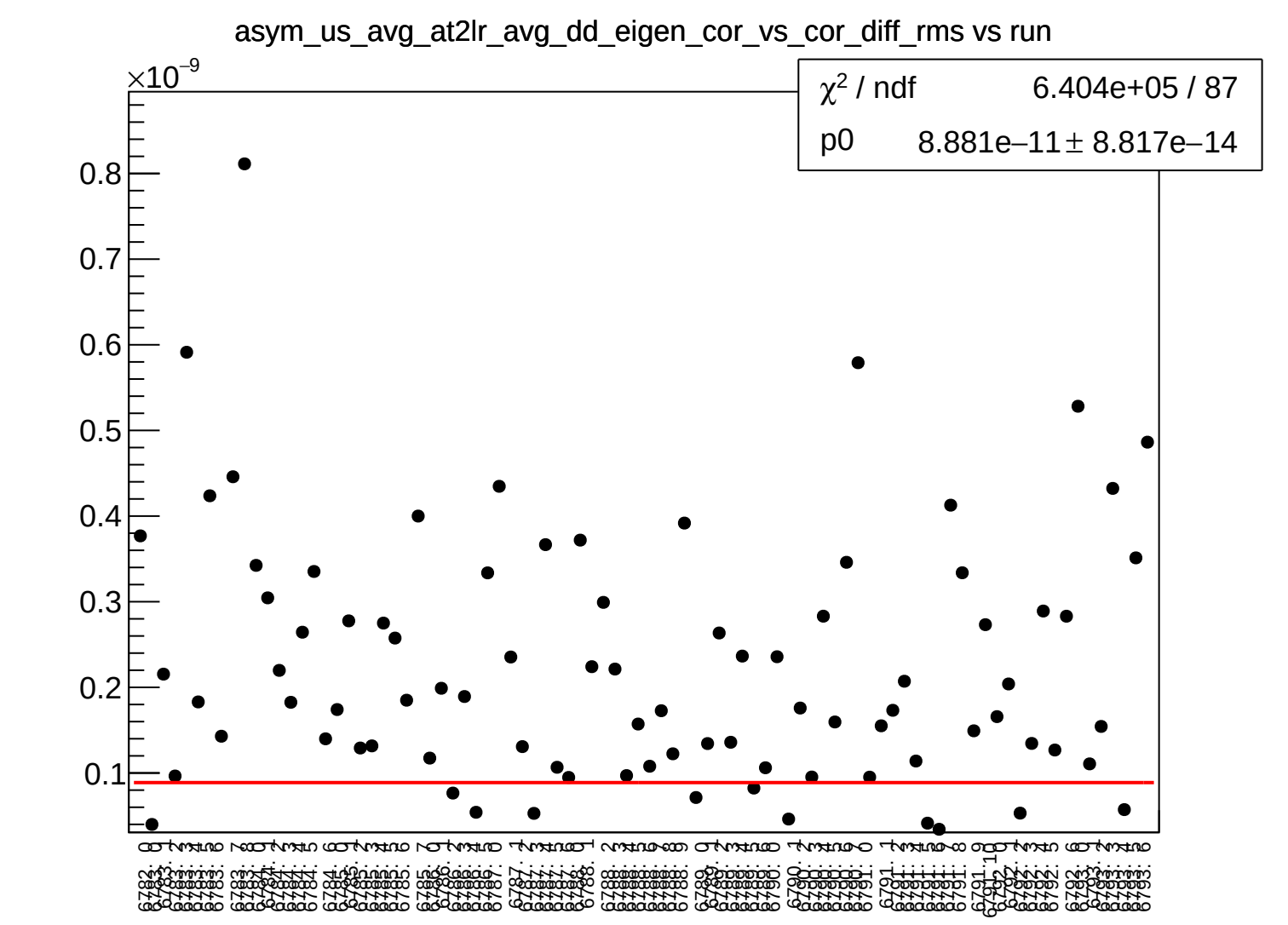

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.85 / 87
p0 0.62 ± 0.5492
pull
Entries 88
Mean 379.8
Std Dev 0

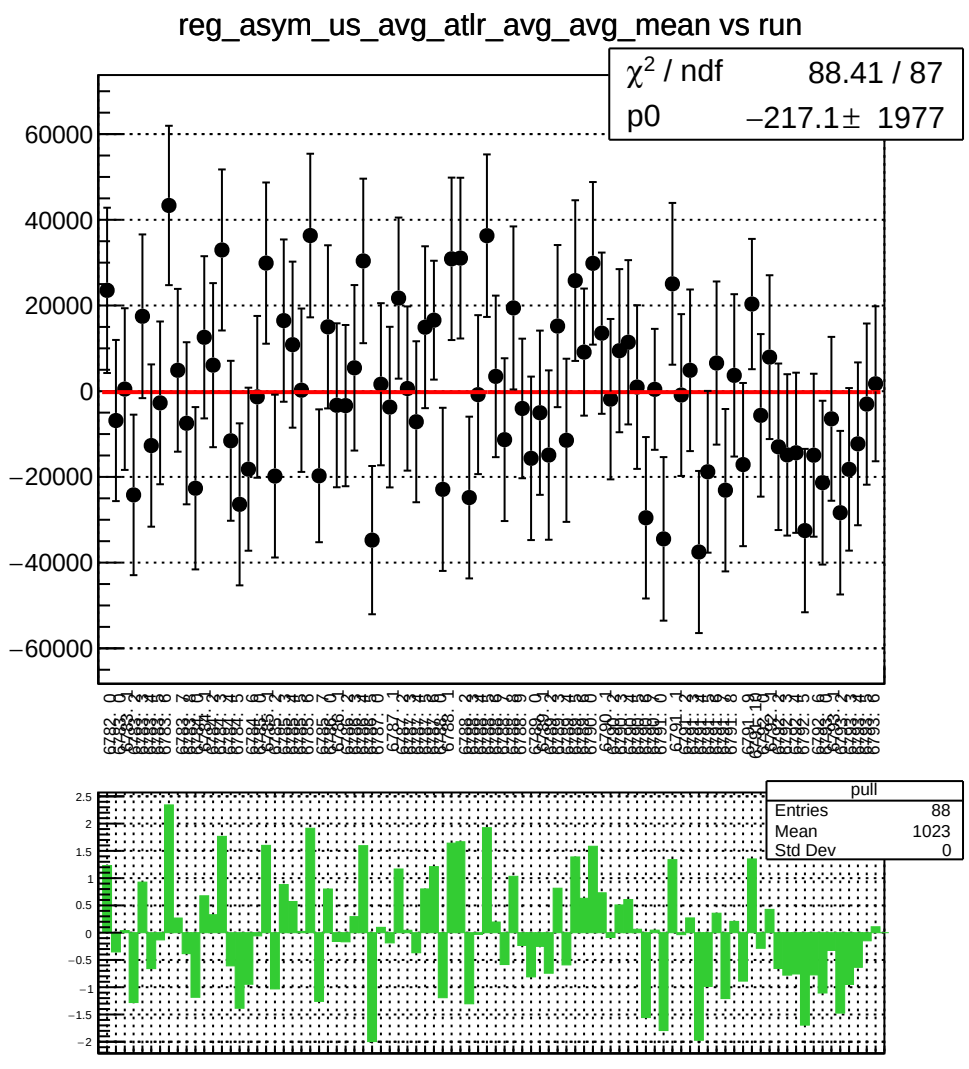

pull1D
Entries 88
Mean 0.009497
Std Dev 0.8845

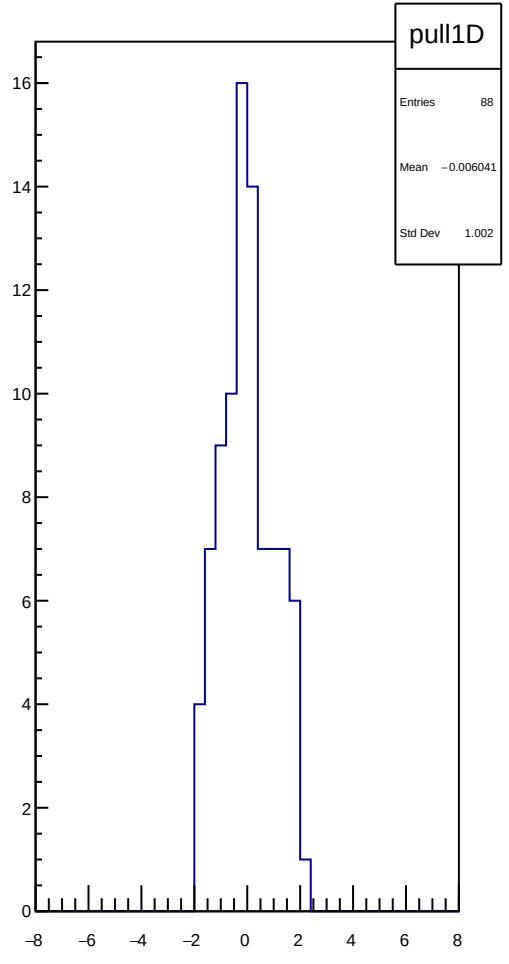

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4721 / 87
p0 498.9 ± 0.3884
580
560
540
520
500
480
460
440
420
400

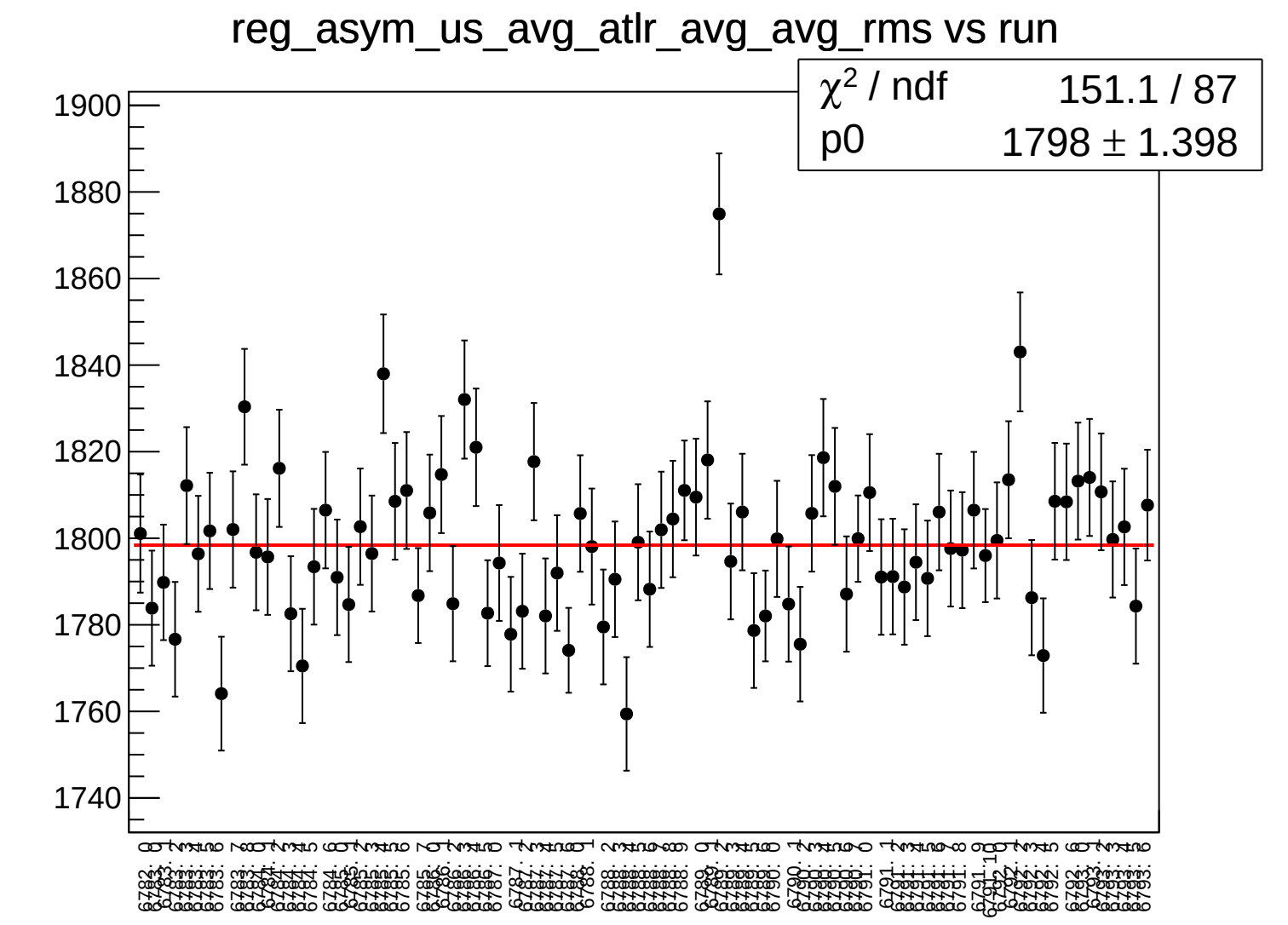

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.39 / 87
p0 1.949e−14 ± 1.247e−13
pull
Entries 88
Mean −27.43
Std Dev 0

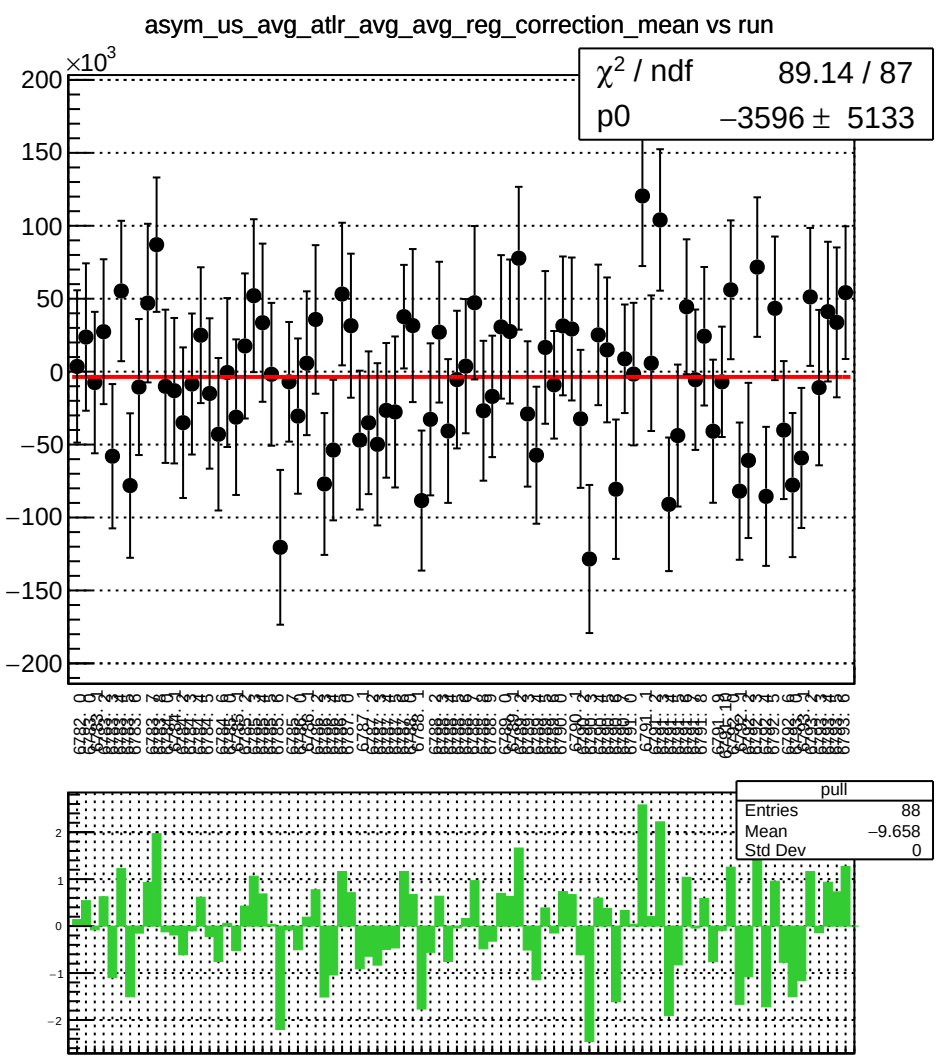

pull1D
Entries 88
Mean 0.01678
Std Dev 1.019

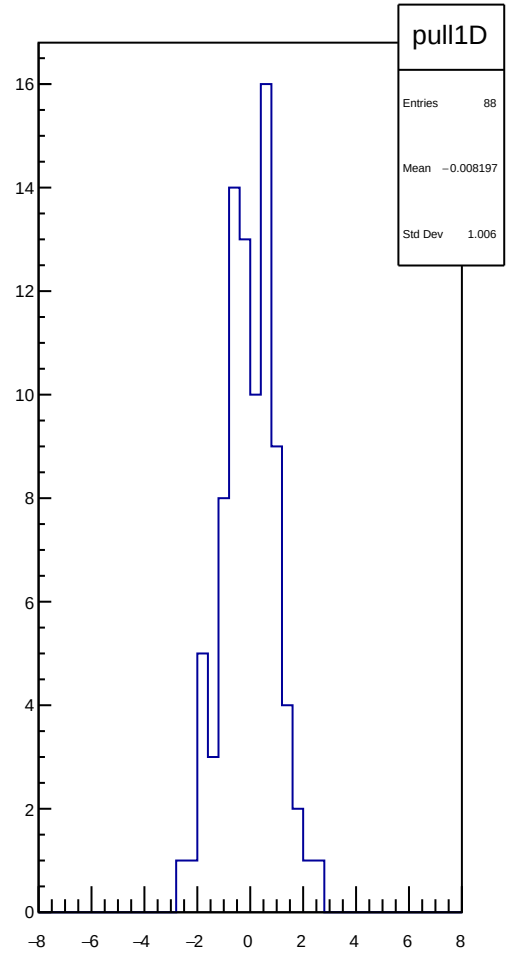

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.404e+05 / 87
p0 8.881e−11 ± 8.817e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

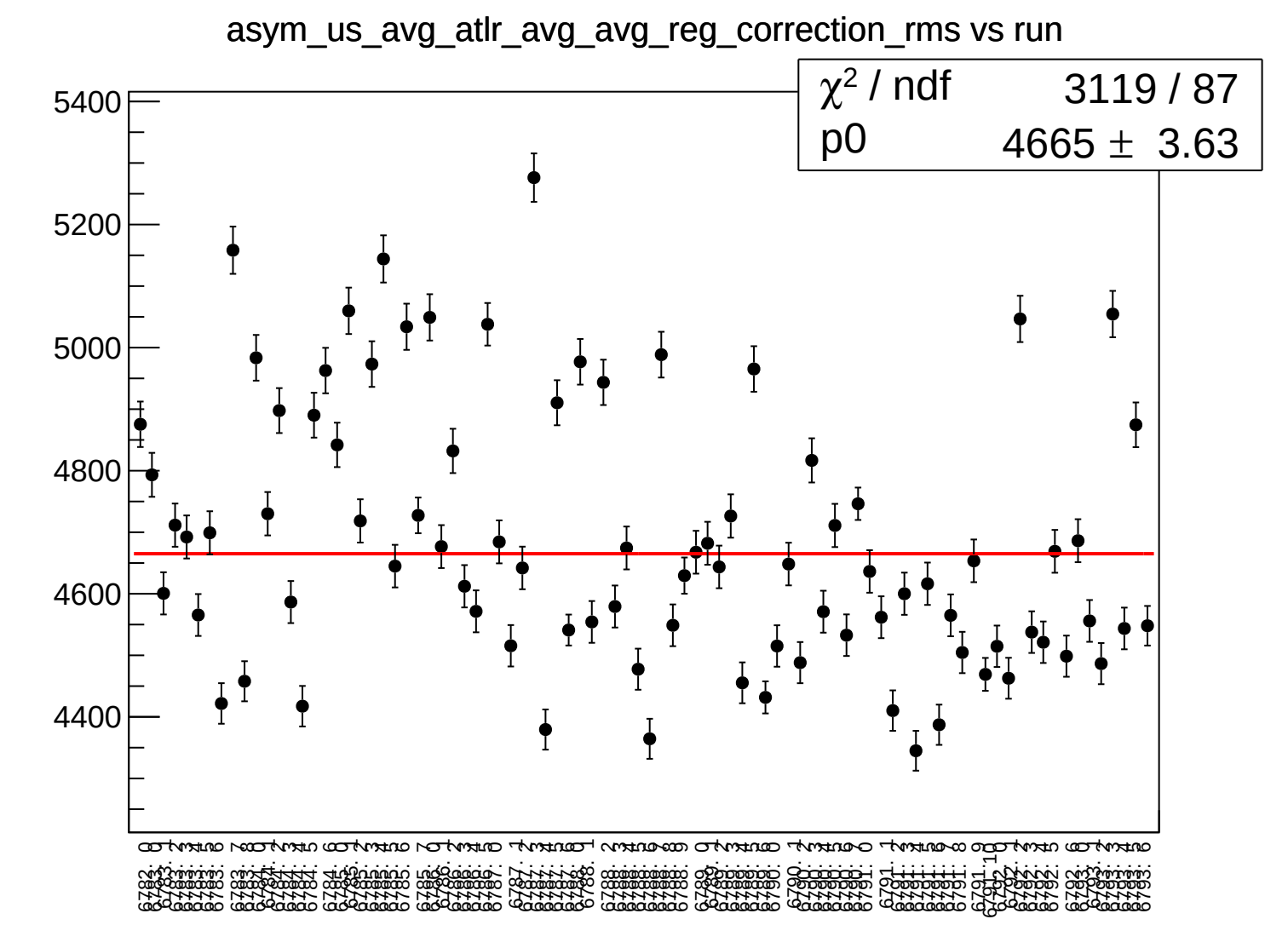

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 88.41 / 87
p0 −217.1± 1977
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1023
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

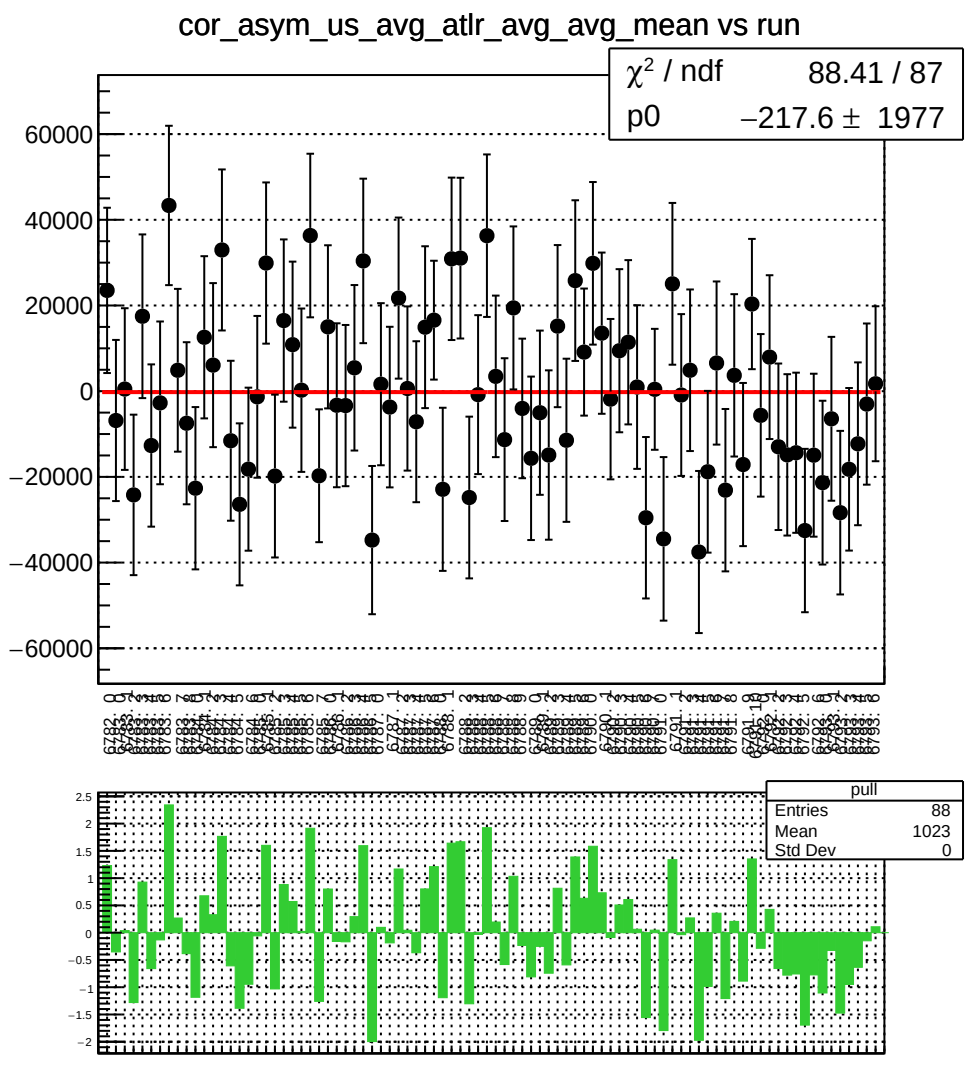

pull1D
Entries 88
Mean −0.006041
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

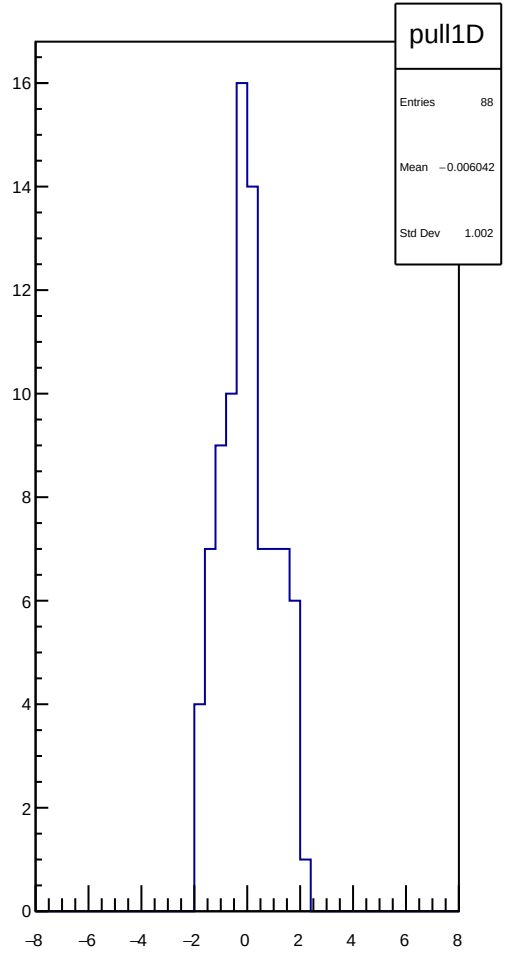

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 151.1 / 87
p0 1798 ± 1.398
1900
1880
1860
1840
1820
1800
1780
1760
1740

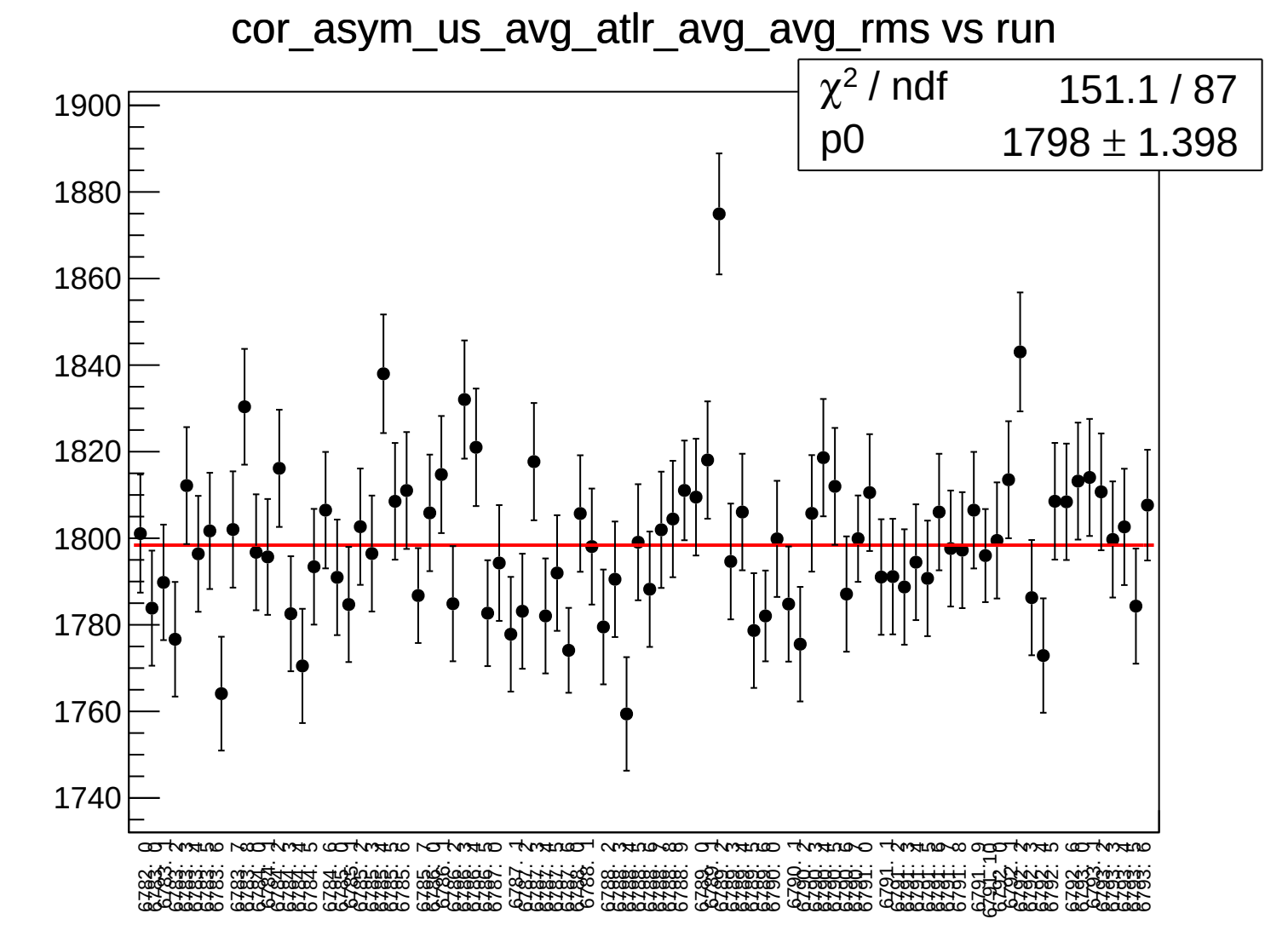

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.14 / 87
p0 −3596 ± 5133
pull
Entries 88
Mean −9.658
Std Dev 0

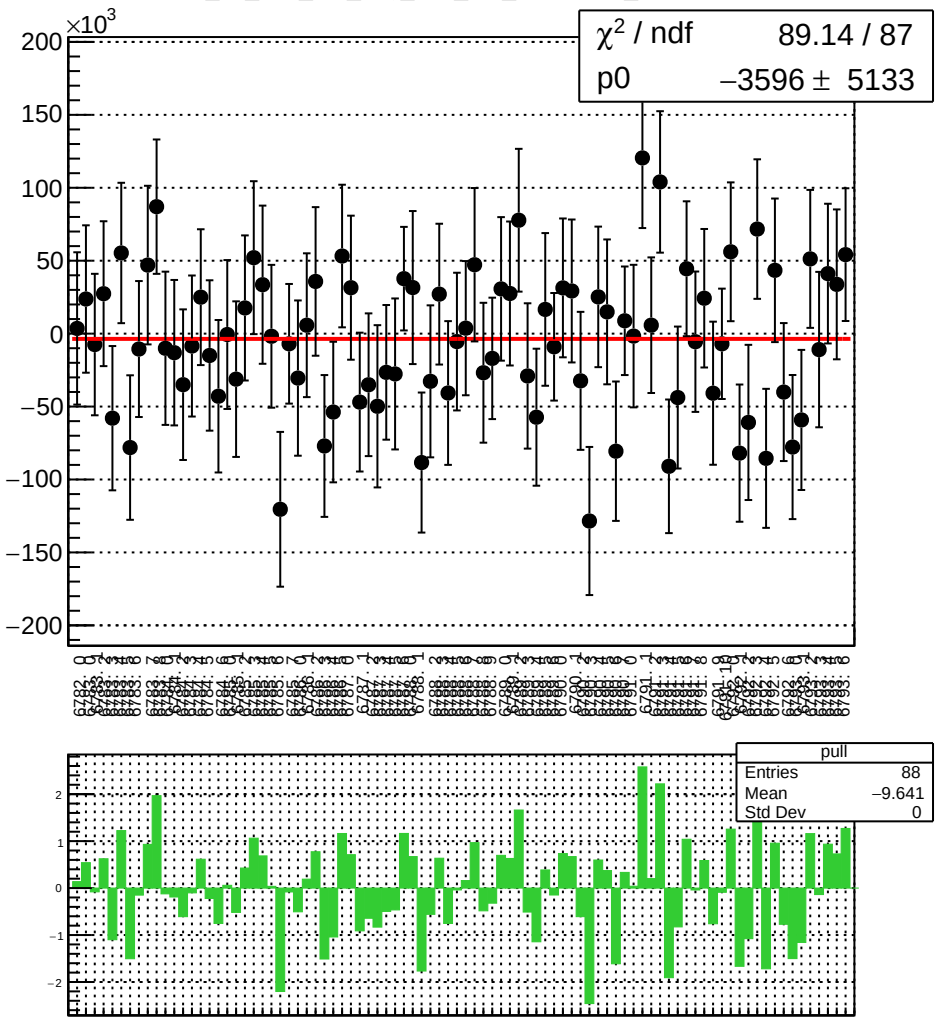

pull1D
Entries 88
Mean −0.008197
Std Dev 1.006

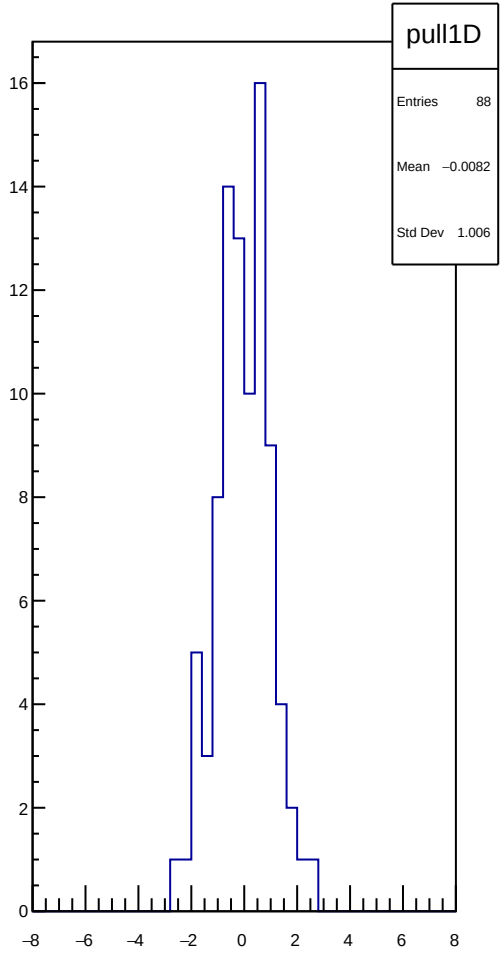

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3119 / 87
p0 4665 ± 3.63
5400
5200
5000
4800
4600
4400

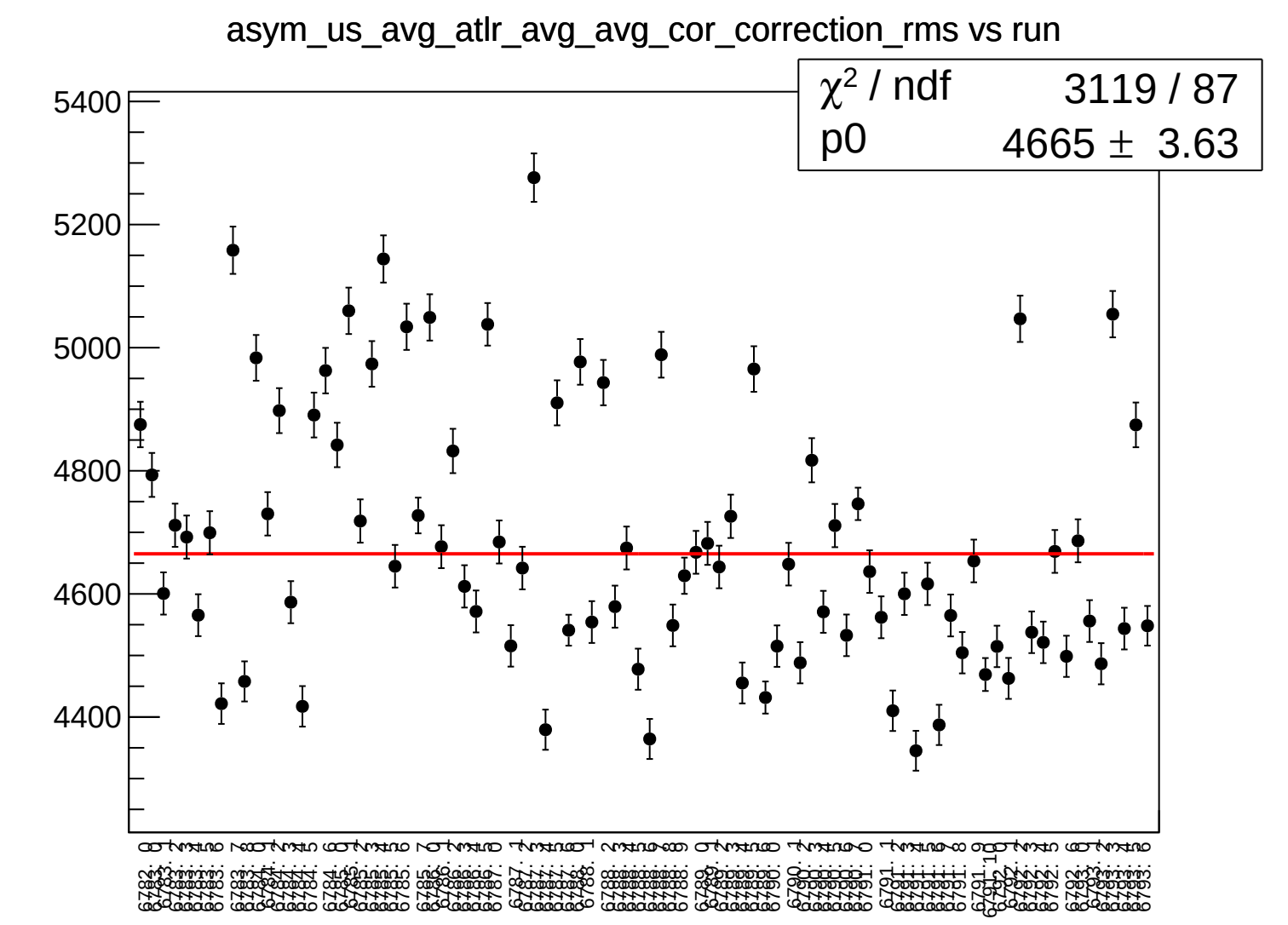

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 88.41 / 87
p0 −217.6 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1023
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

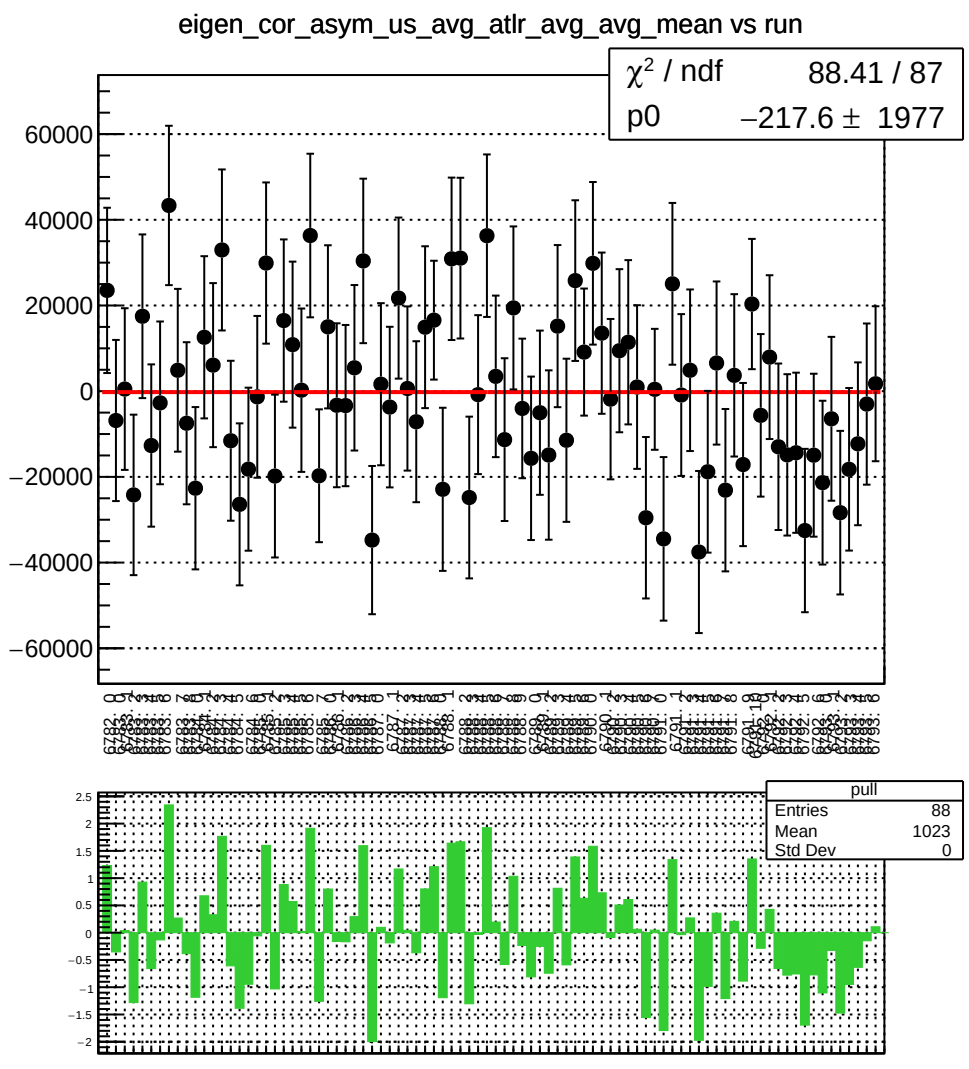

pull1D
Entries 88
Mean −0.006042
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

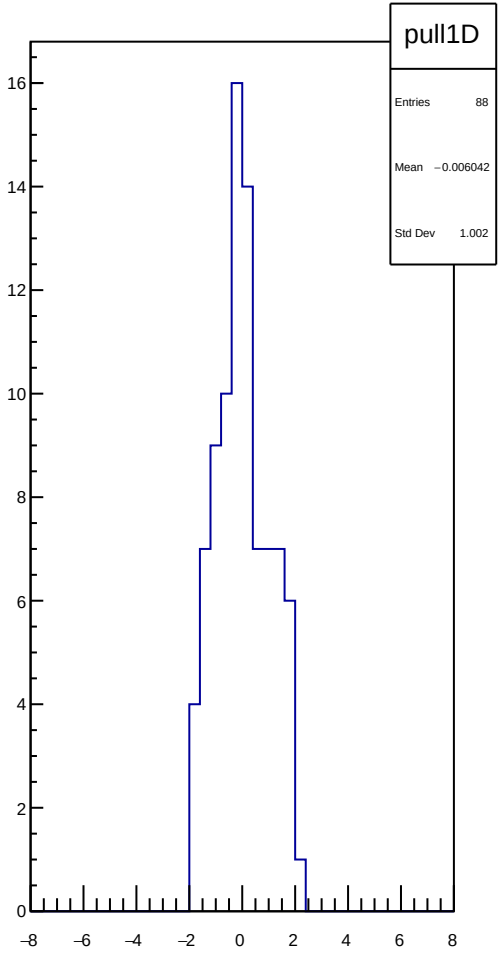

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 151.1 / 87
p0 1798 ± 1.398
1900
1880
1860
1840
1820
1800
1780
1760
1740

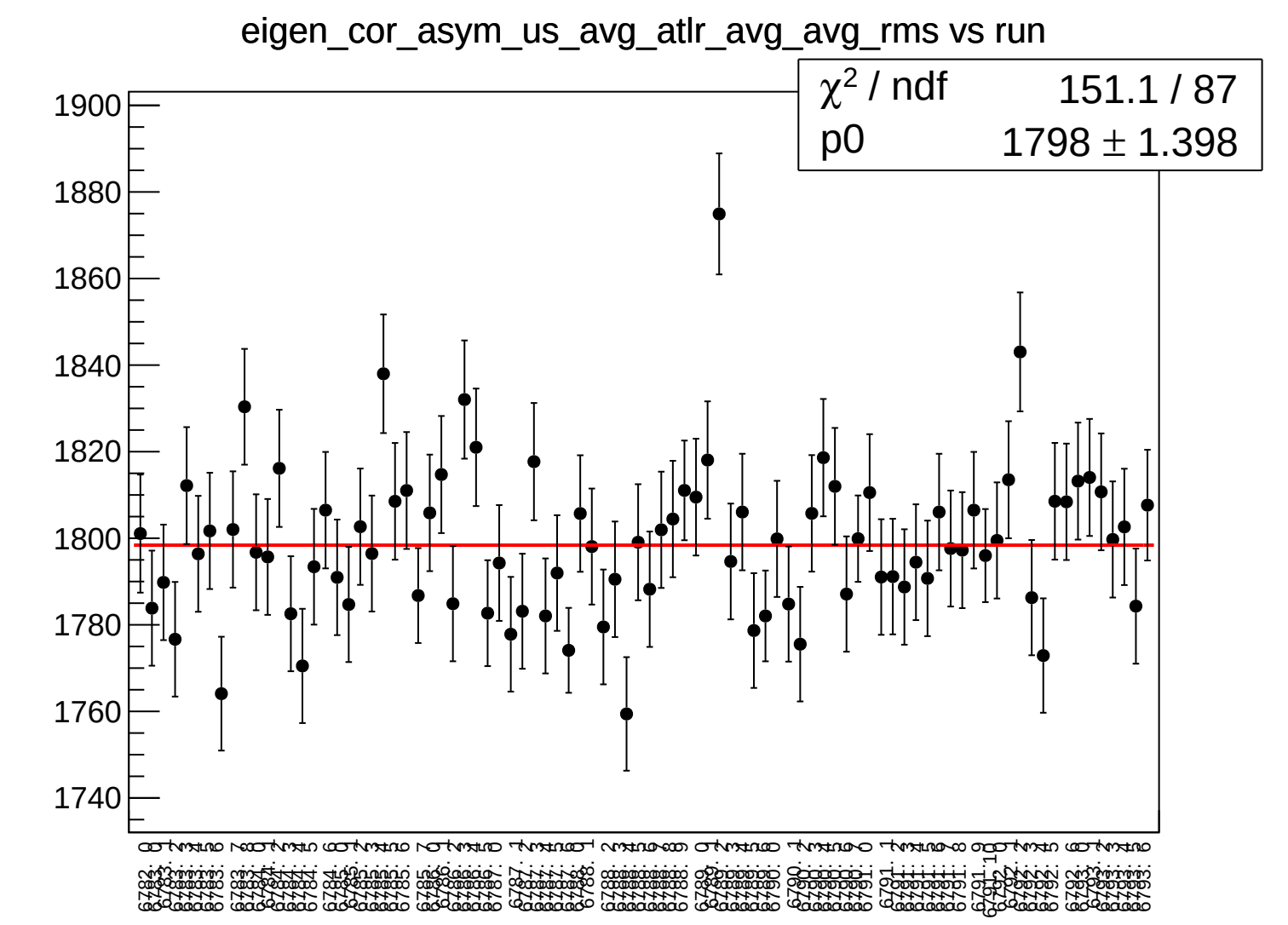

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.14 / 87
p0 −3596 ± 5133
pull
Entries 88
Mean −9.641
Std Dev 0

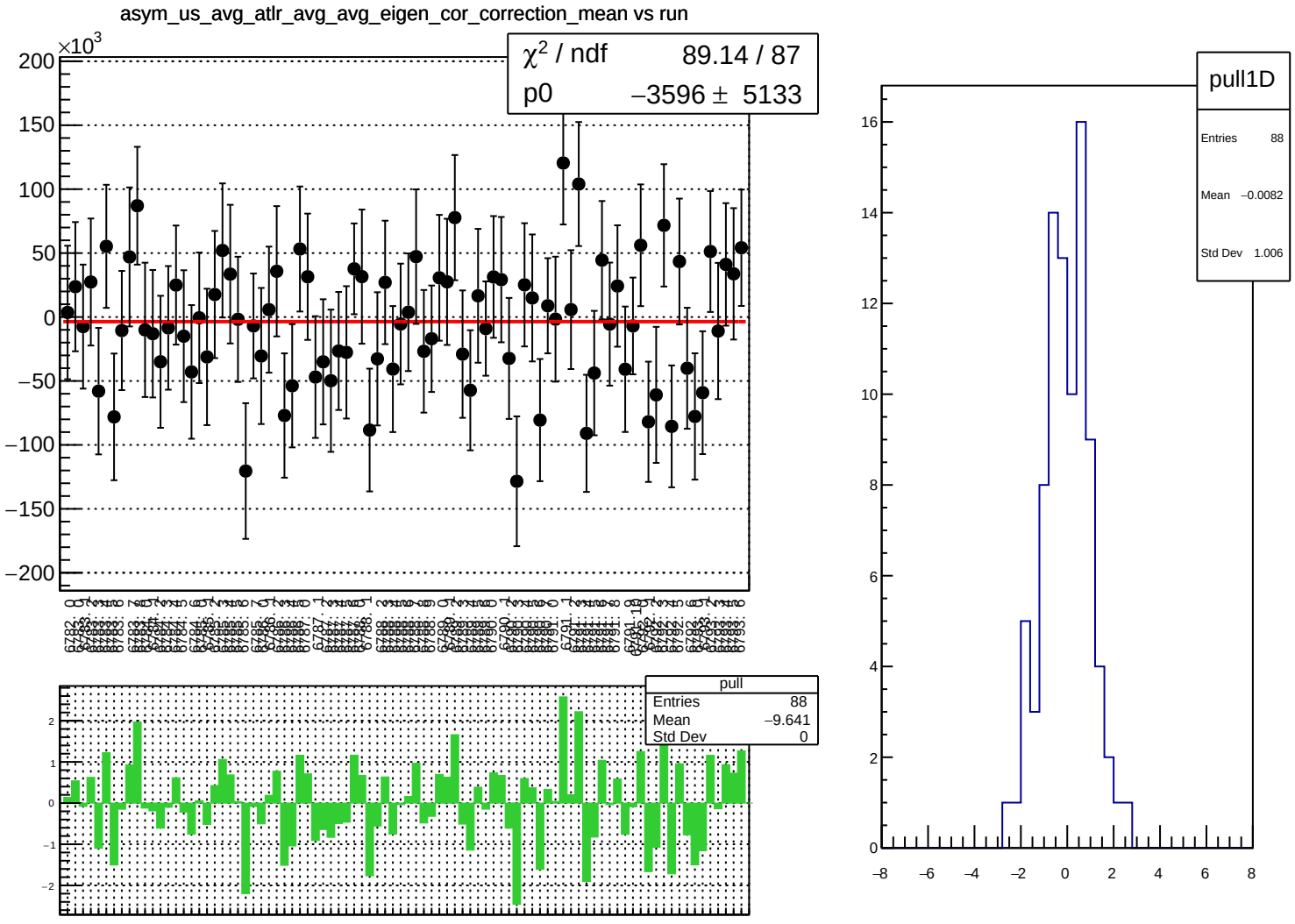

pull1D
Entries 88
Mean −0.0082
Std Dev 1.006

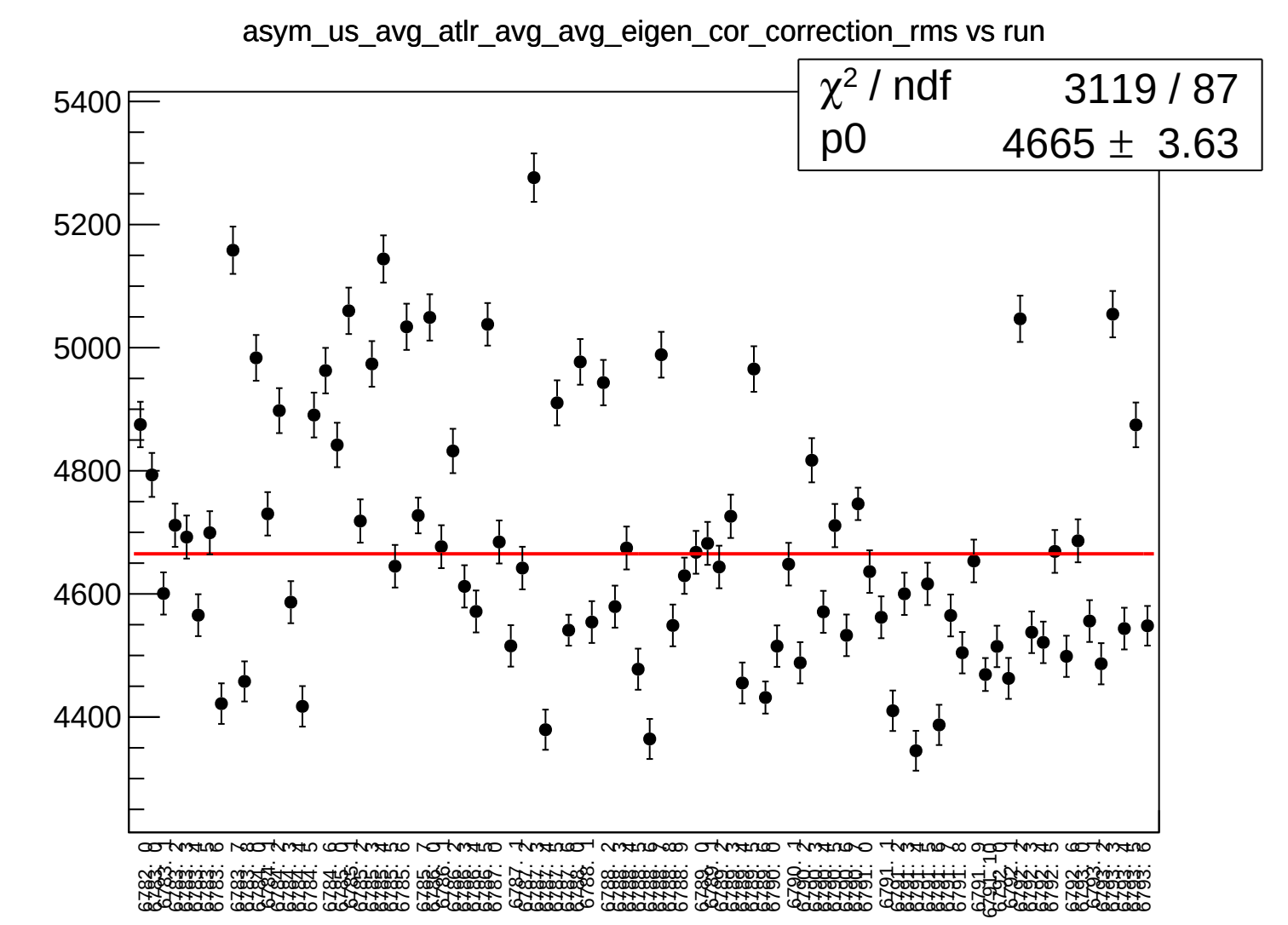

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 3119 / 87
p0 4665 ± 3.63
5400
5200
5000
4800
4600
4400

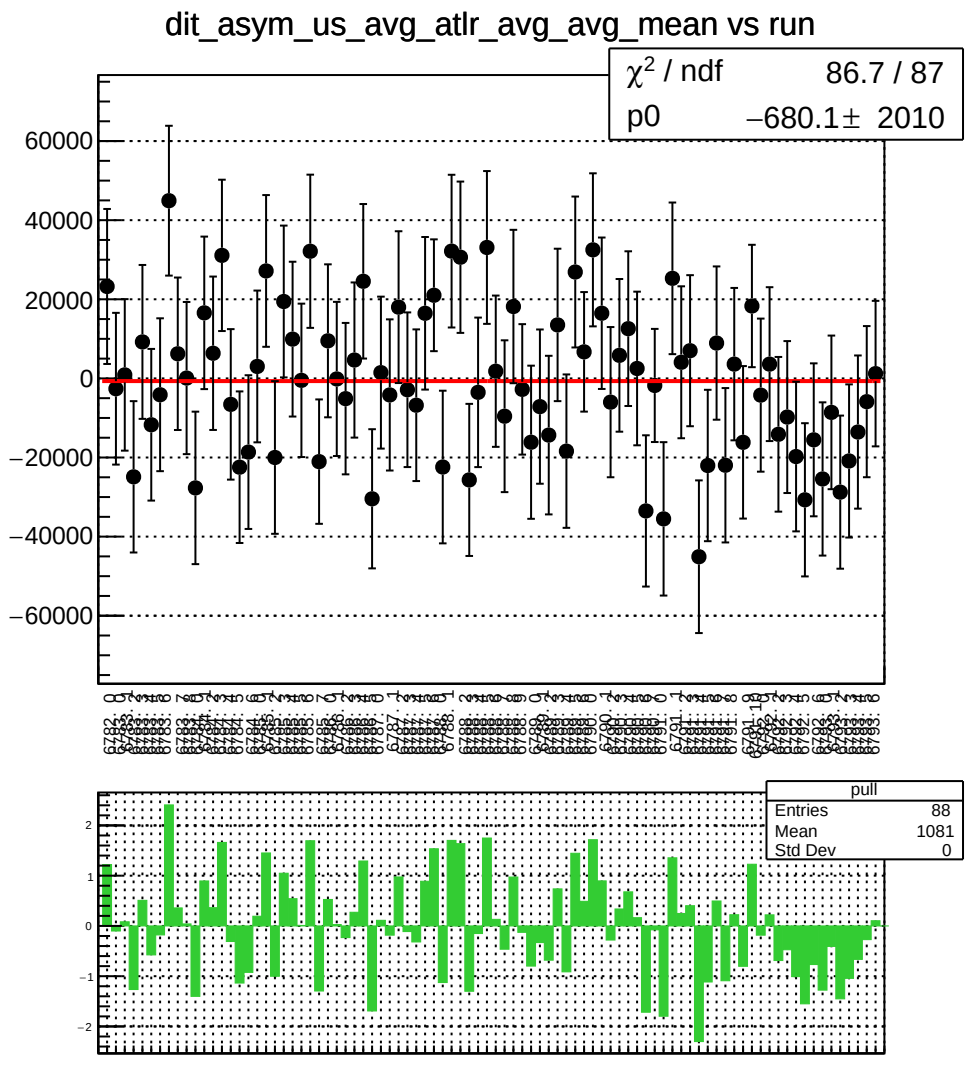

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 88.41 / 87
p0 −217.6 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1023
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

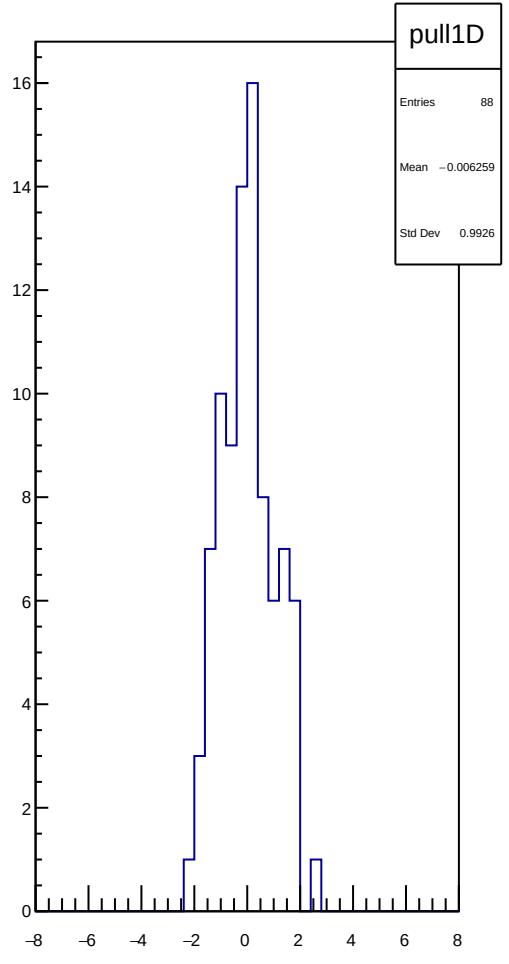

pull1D
Entries 88
Mean −0.006042
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

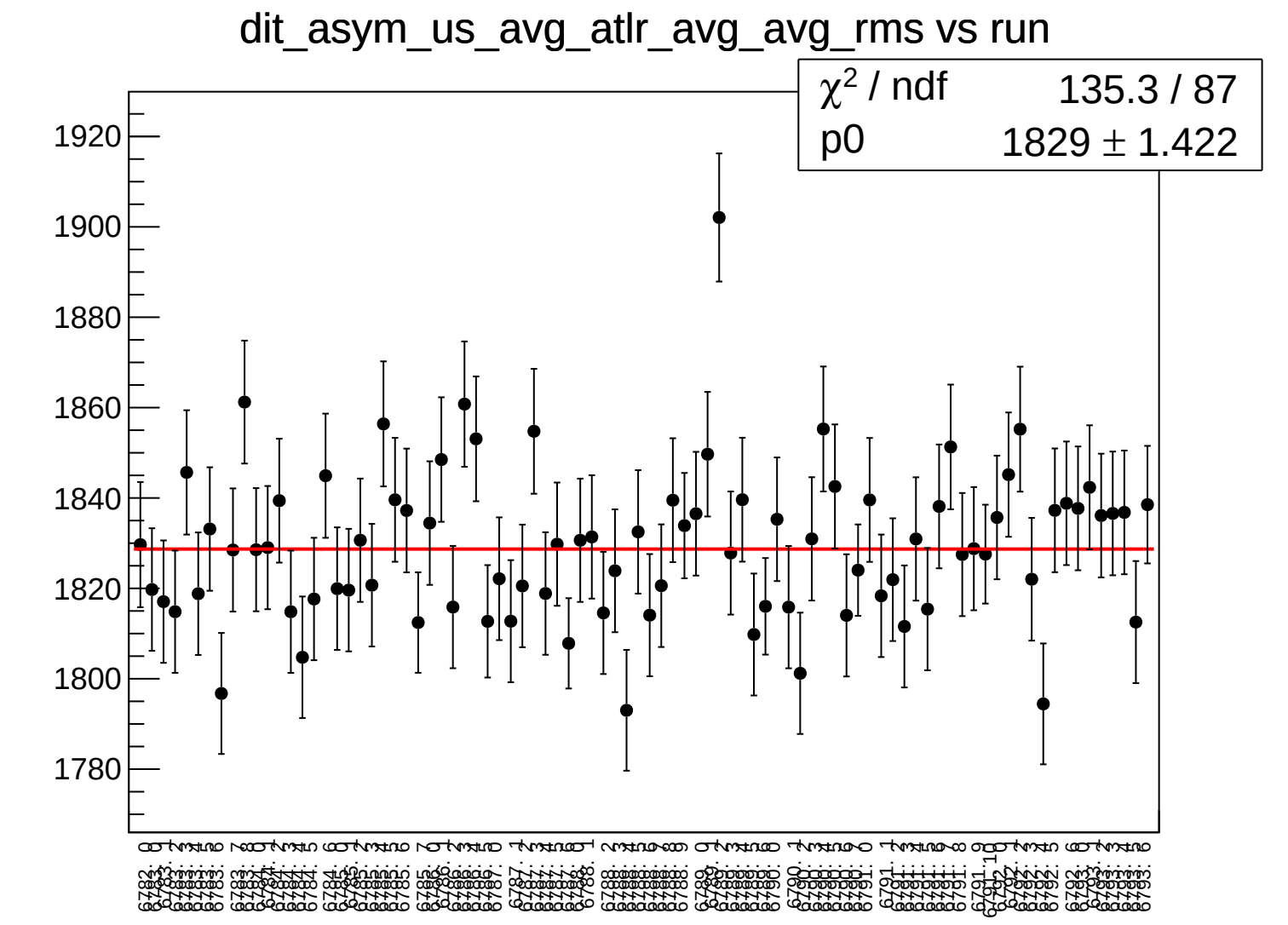

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 151.1 / 87
p0 1798 ± 1.398
1900
1880
1860
1840
1820
1800
1780
1760
1740

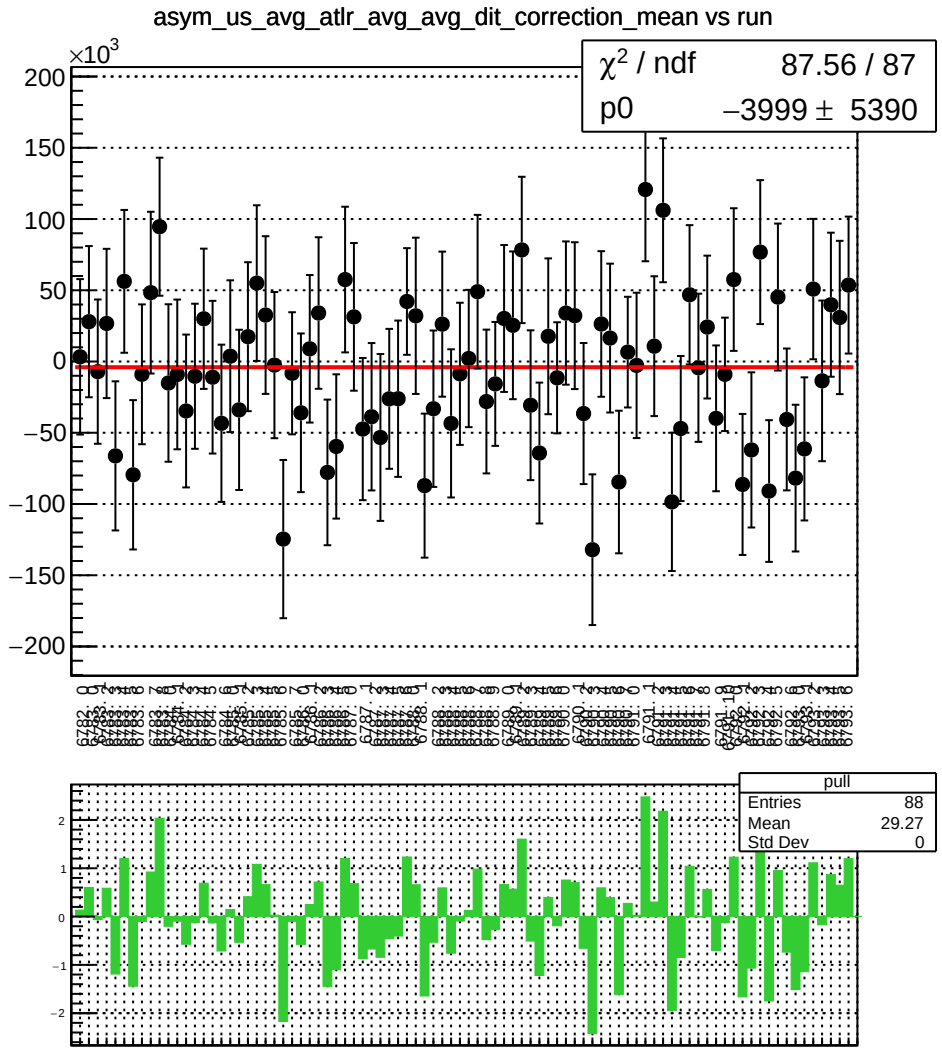

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.14 / 87
p0 −3596 ± 5133
pull
Entries 88
Mean −9.641
Std Dev 0
pull1D
Entries 88
Mean −0.0082
Std Dev 1.006

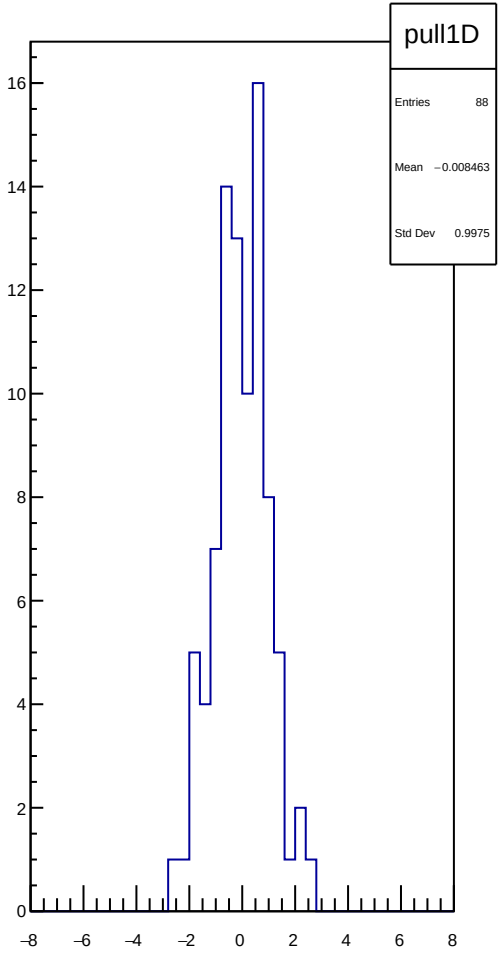

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3119 / 87
p0 4665 ± 3.63
5400
5200
5000
4800
4600
4400

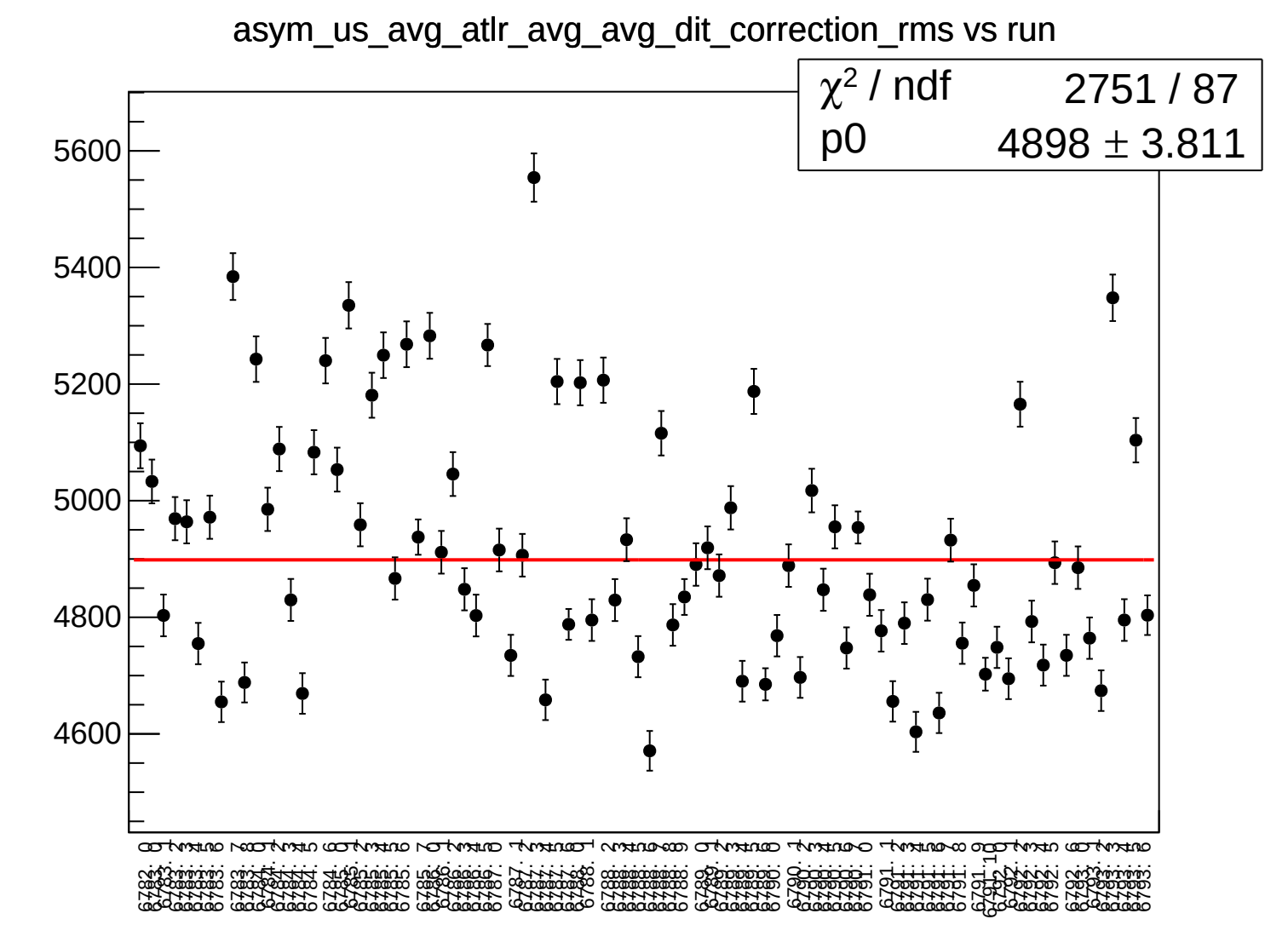

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.7 / 87
p0 −680.1± 2010
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1081
Std Dev 0
2
1
0
−1
−2

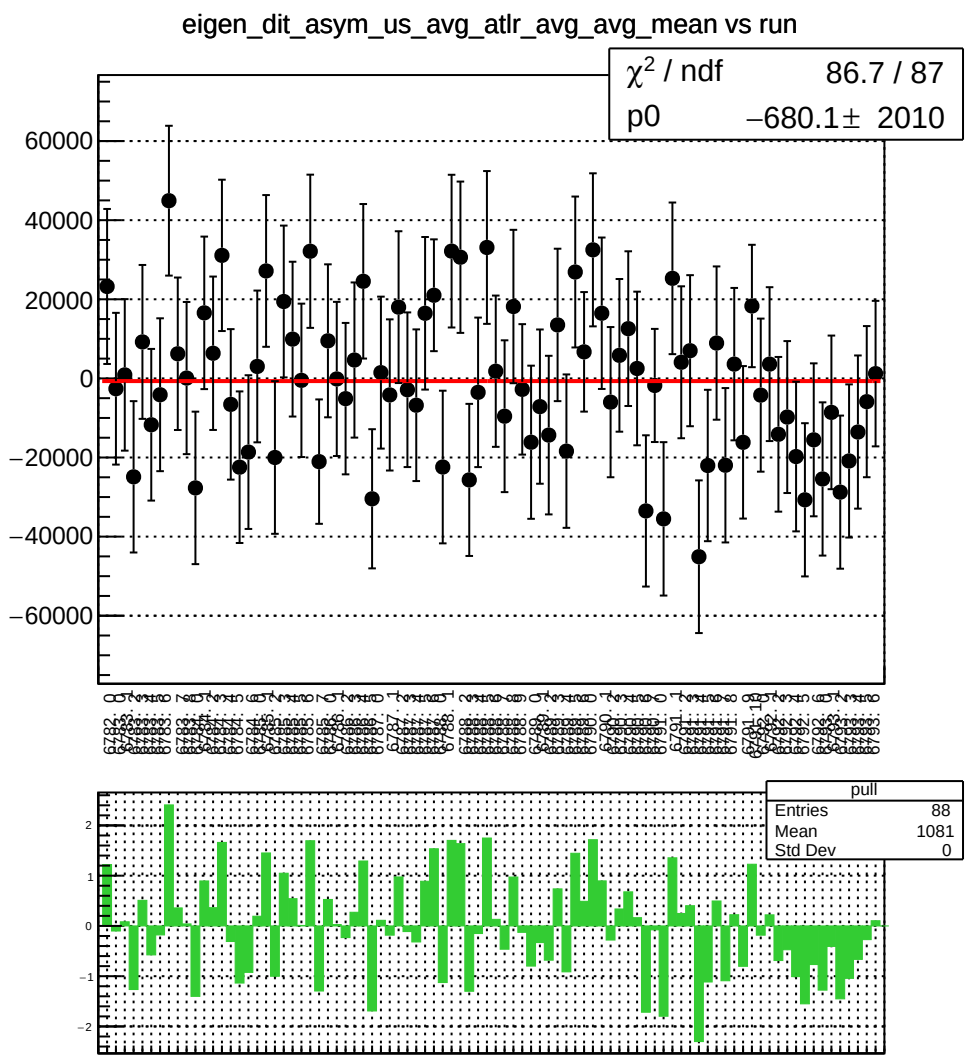

pull1D
Entries 88
Mean −0.006259
Std Dev 0.9926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

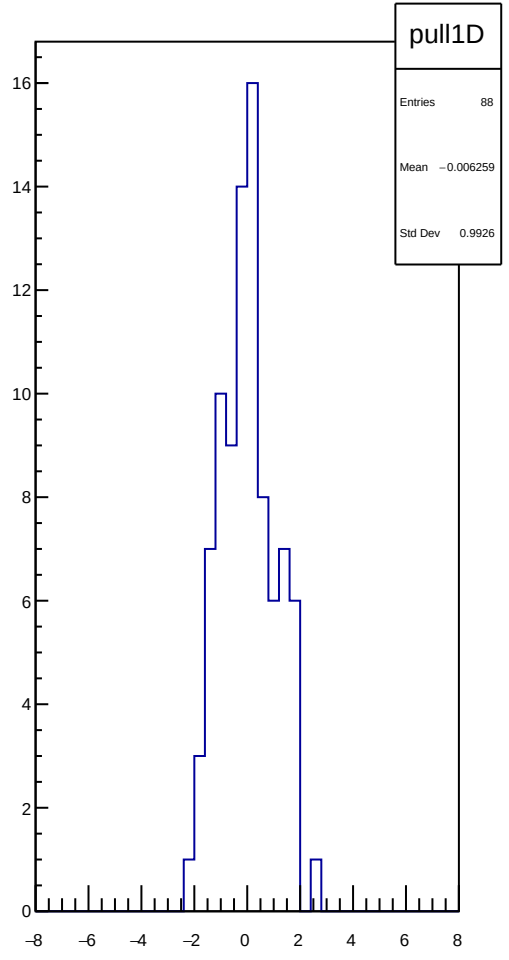

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 135.3 / 87
p0 1829 ± 1.422
1920
1900
1880
1860
1840
1820
1800
1780

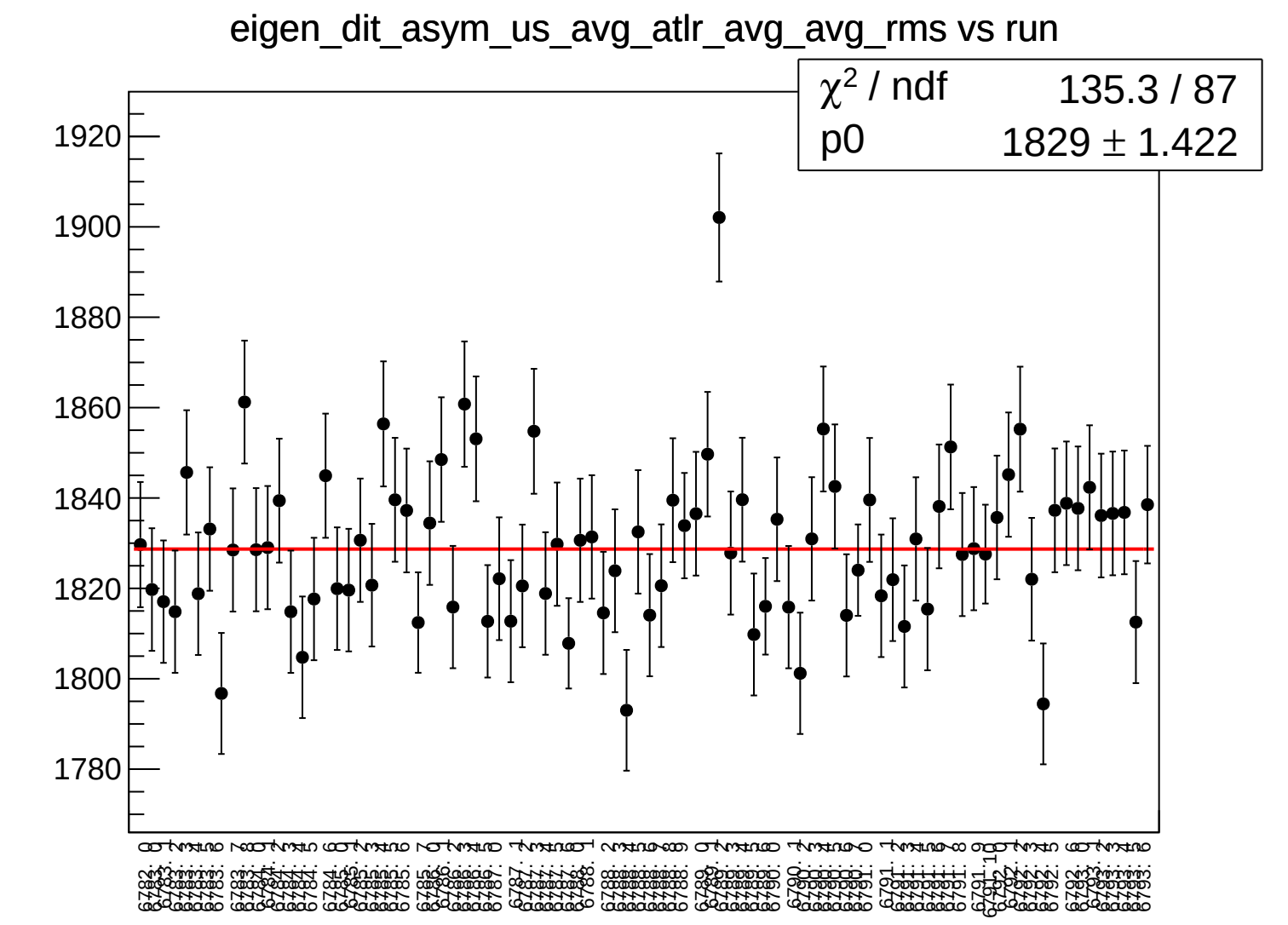

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.56 / 87
p0 −3999 ± 5390
pull
Entries 88
Mean 29.27
Std Dev 0

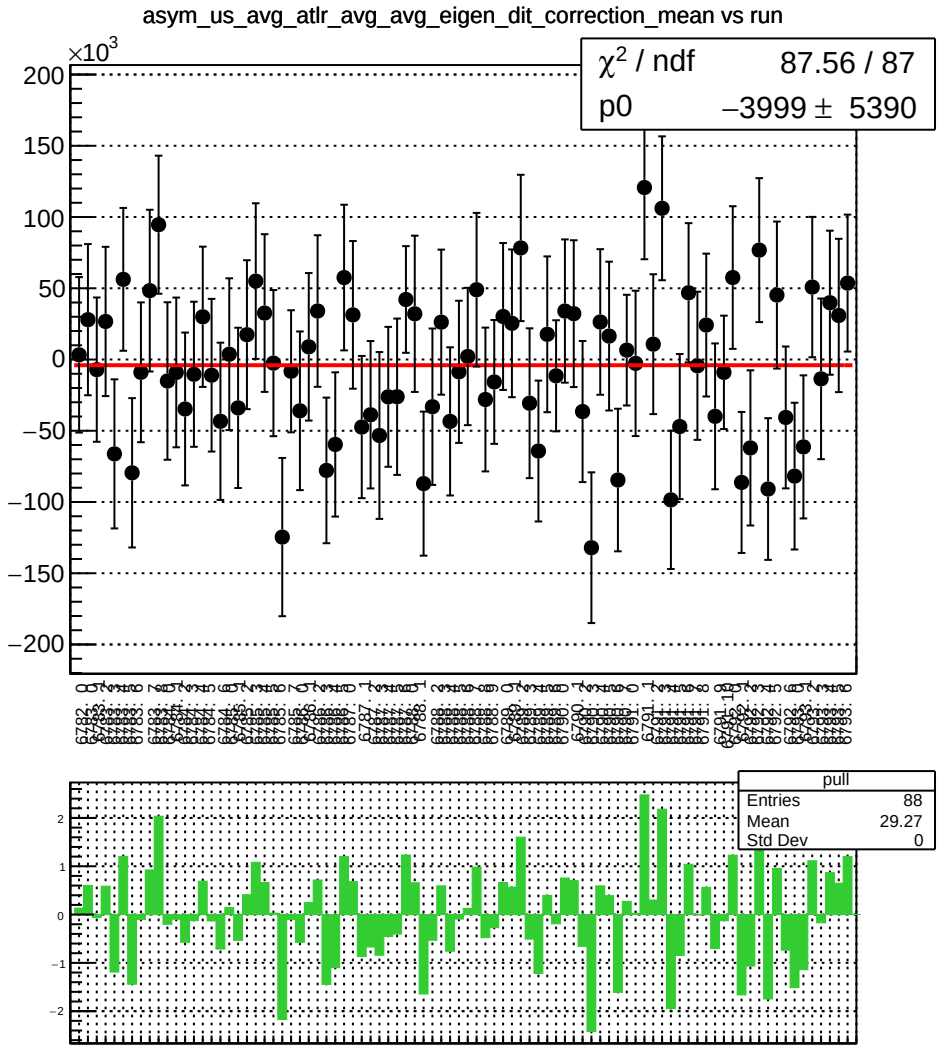

pull1D
Entries 88
Mean −0.008463
Std Dev 0.9975

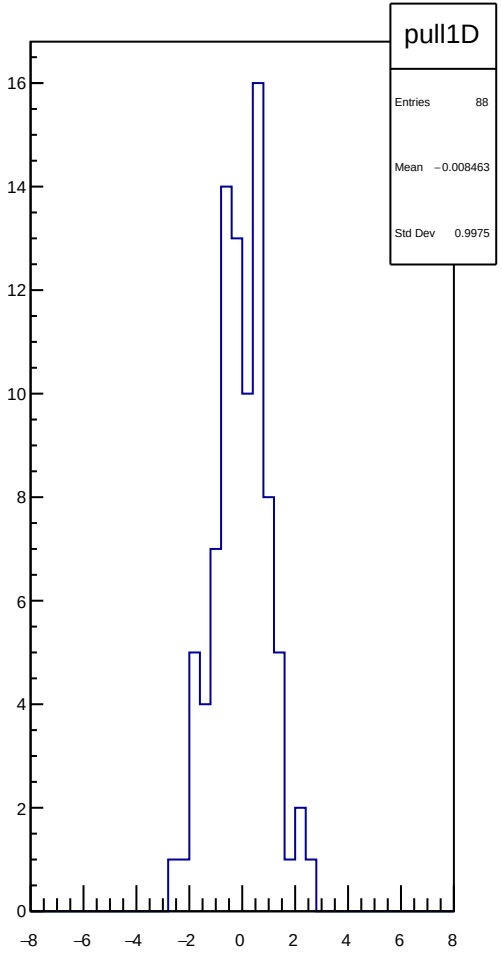

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 2751 / 87
p0 4898 ± 3.811
5600
5400
5200
5000
4800
4600

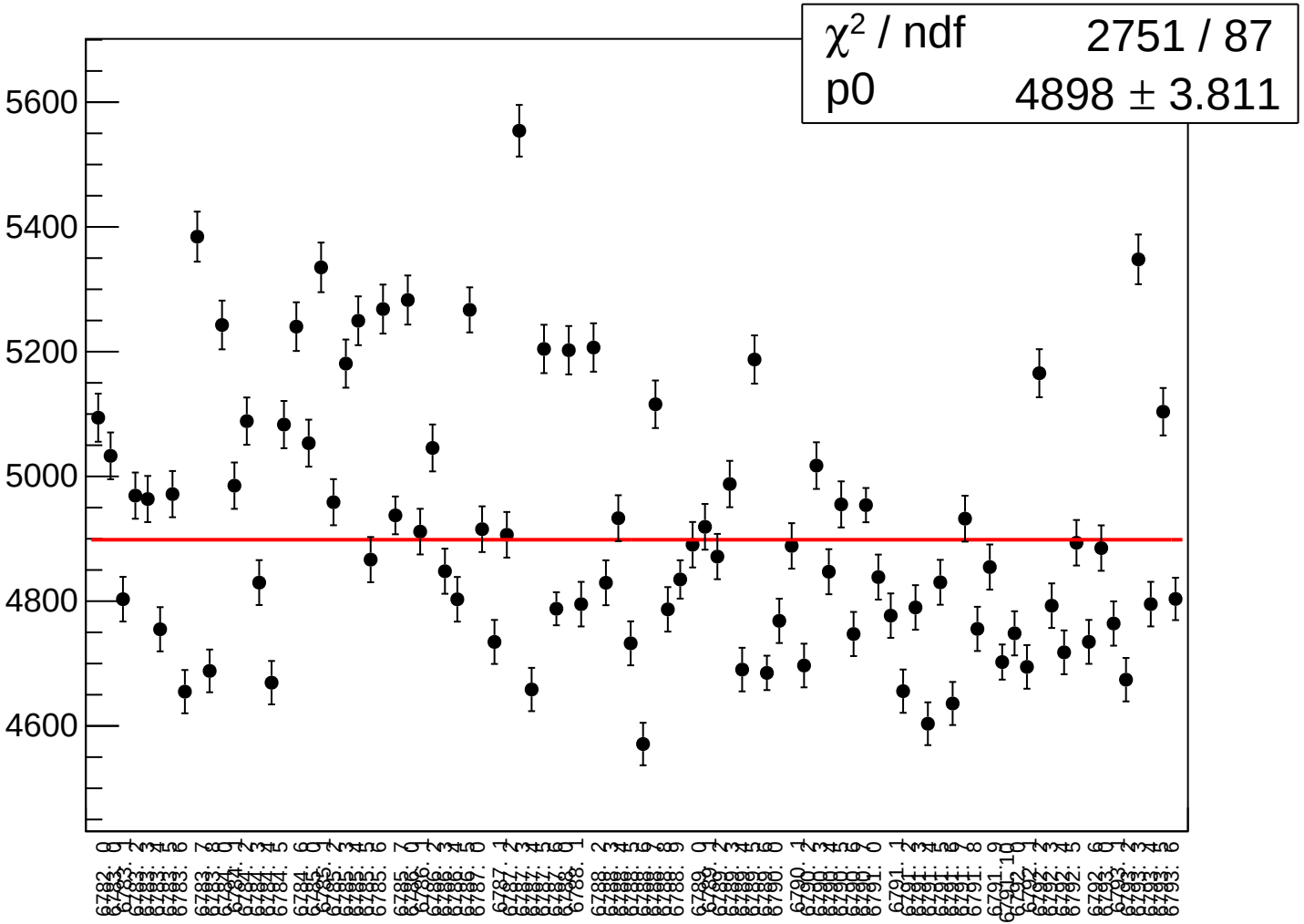

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.7 / 87
p0 −680.1± 2010
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1081
Std Dev 0
2
1
0
−1
−2

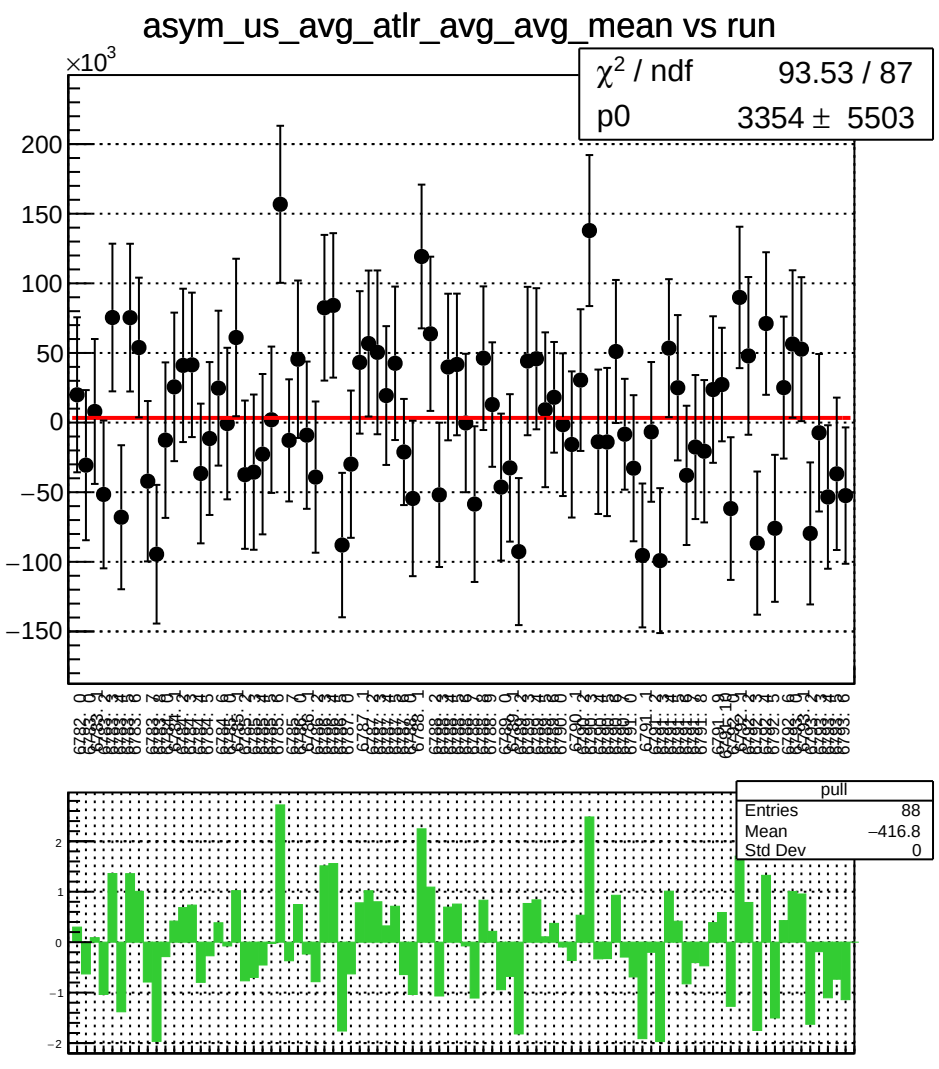

pull1D
Entries 88
Mean −0.006259
Std Dev 0.9926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

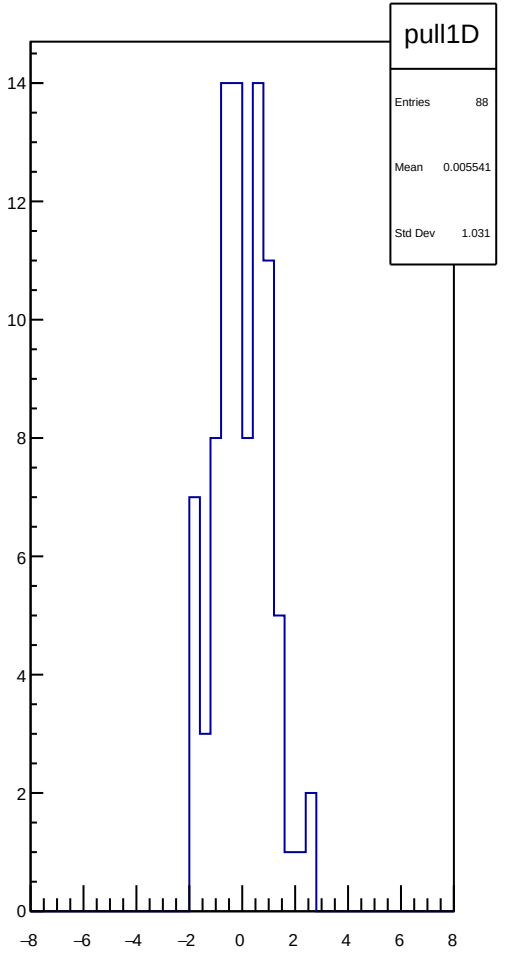

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 135.3 / 87
p0 1829 ± 1.422
1920
1900
1880
1860
1840
1820
1800
1780

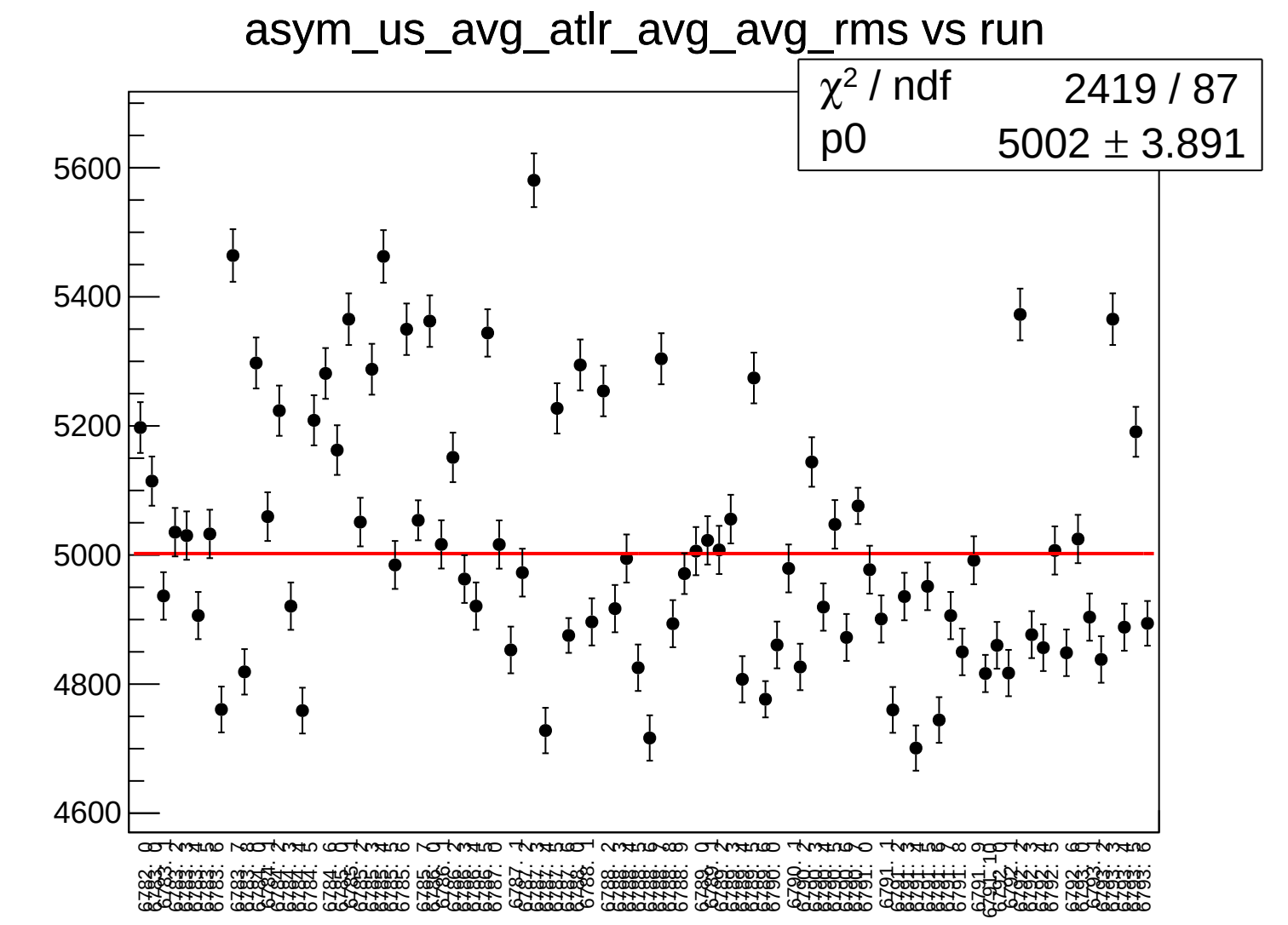

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.56 / 87
p0 −3999 ± 5390
pull
Entries 88
Mean 29.27
Std Dev 0

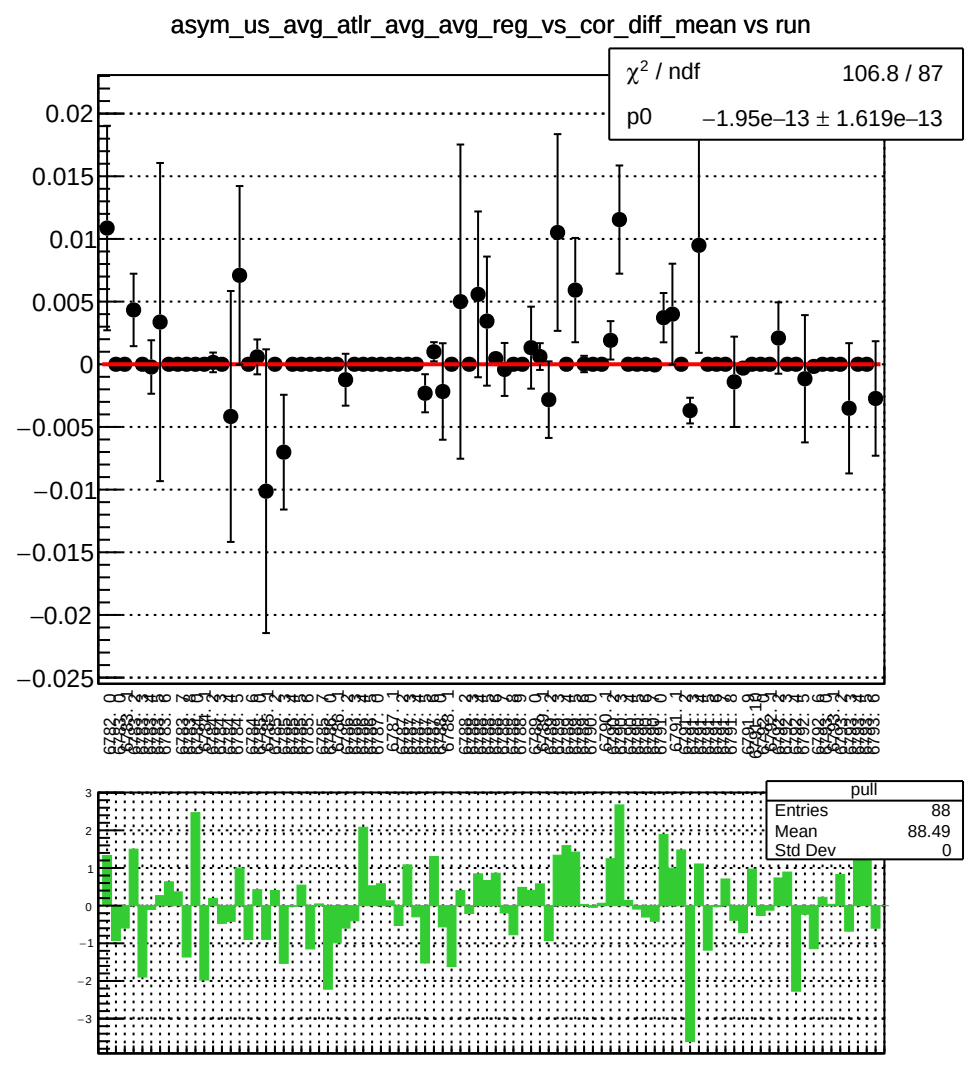

pull1D
Entries 88
Mean −0.008463
Std Dev 0.9975

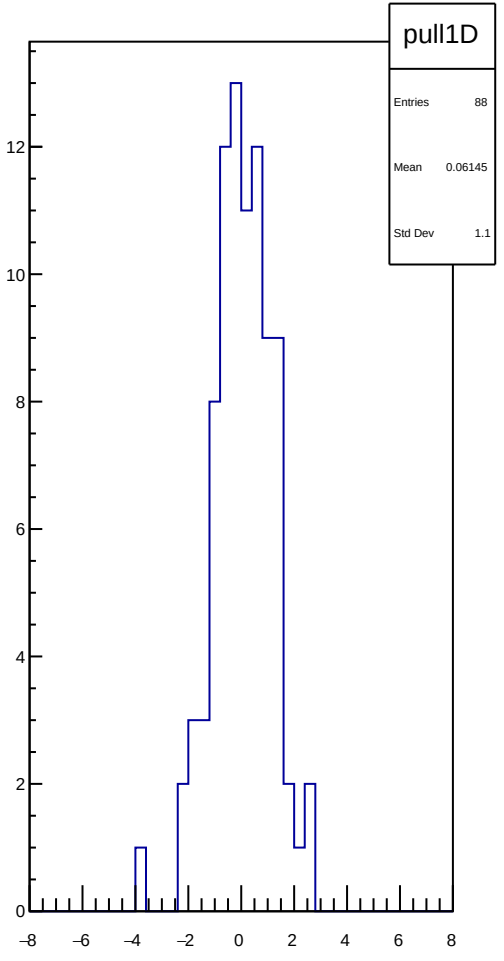

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2751 / 87
p0 4898 ± 3.811
5600
5400
5200
5000
4800
4600

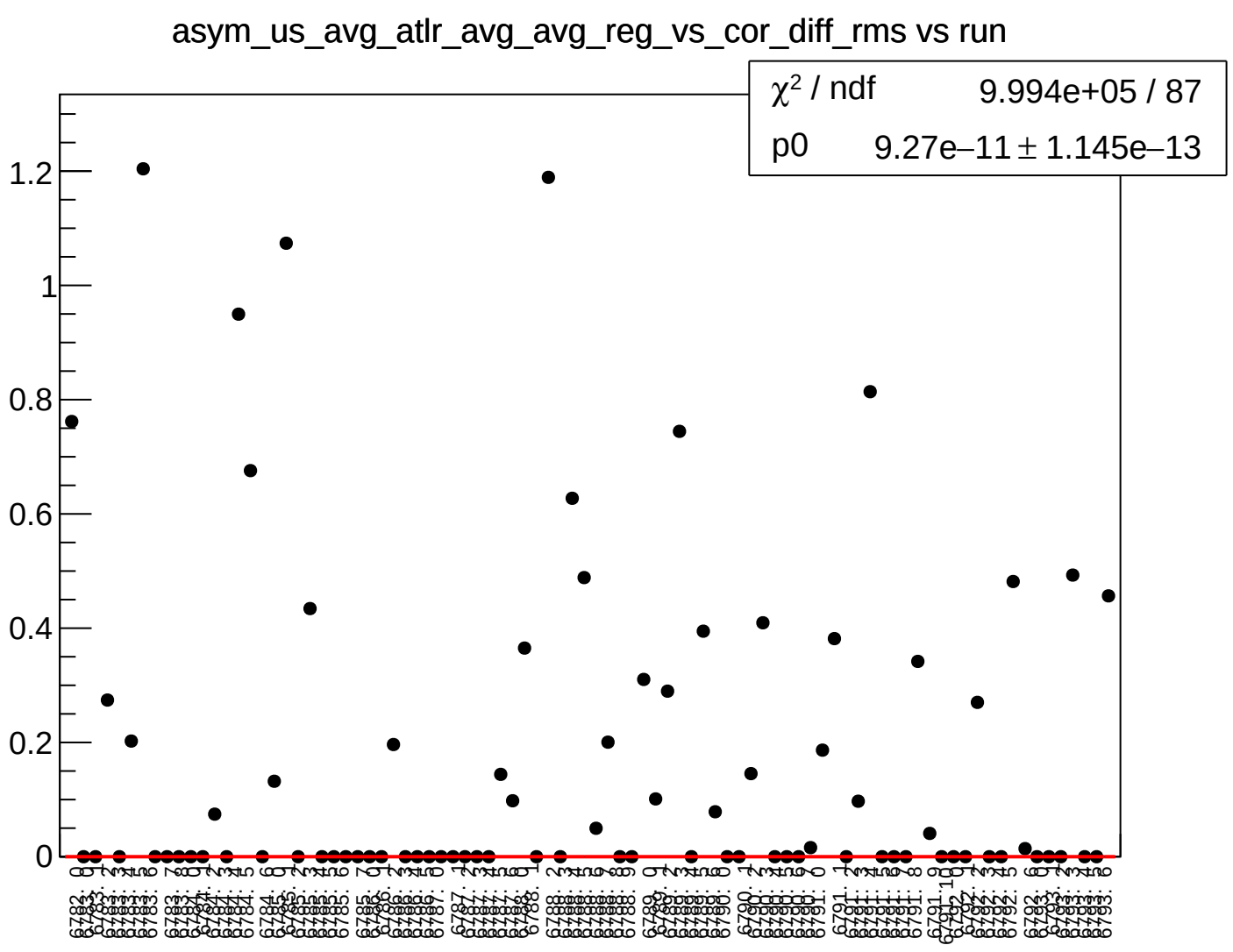

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.53 / 87
p0 3354 ± 5503
pull
Entries 88
Mean −416.8
Std Dev 0

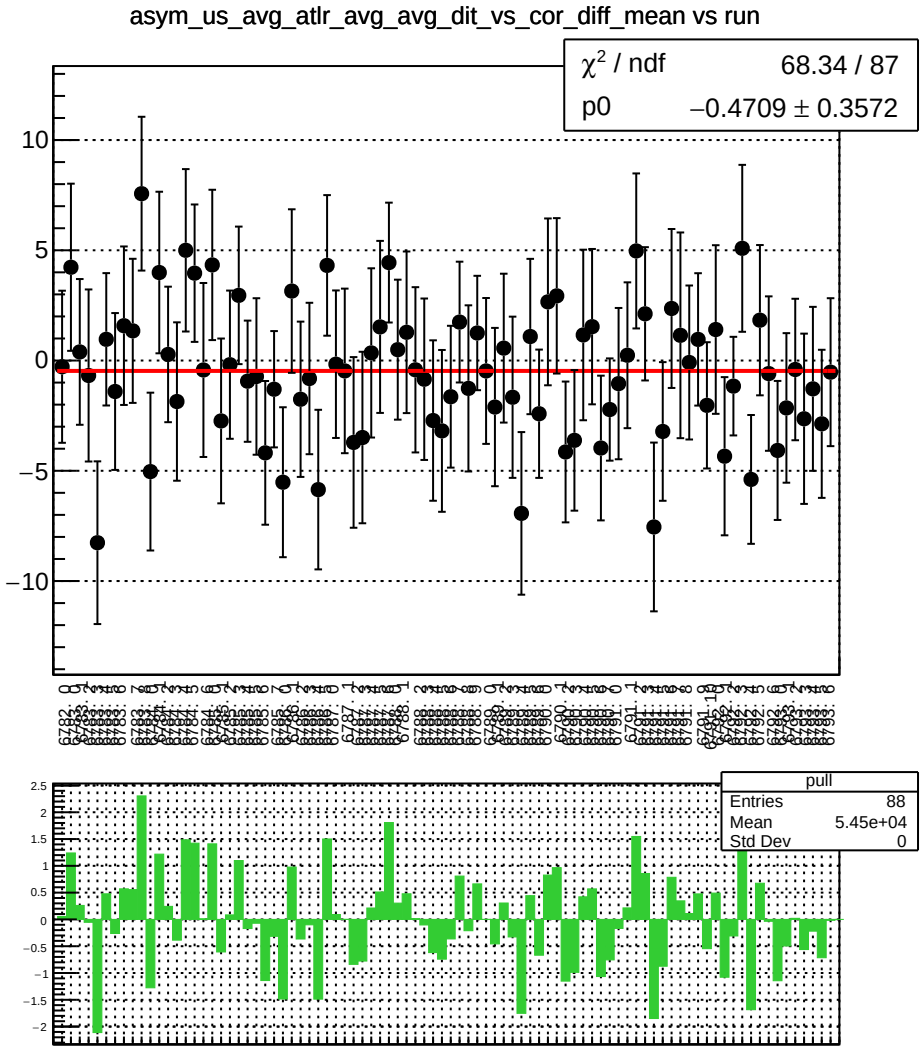

pull1D
Entries 88
Mean 0.005541
Std Dev 1.031

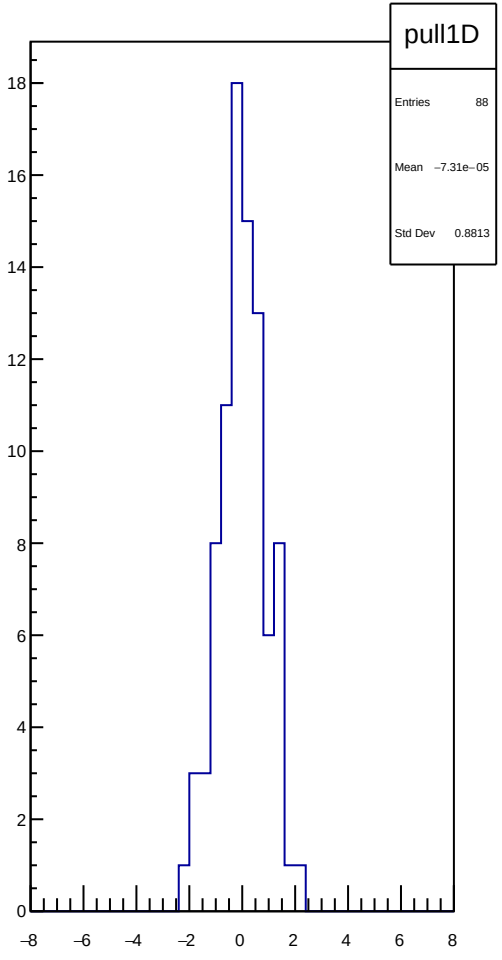

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 2419 / 87
p0 5002 ± 3.891
5600
5400
5200
5000
4800
4600

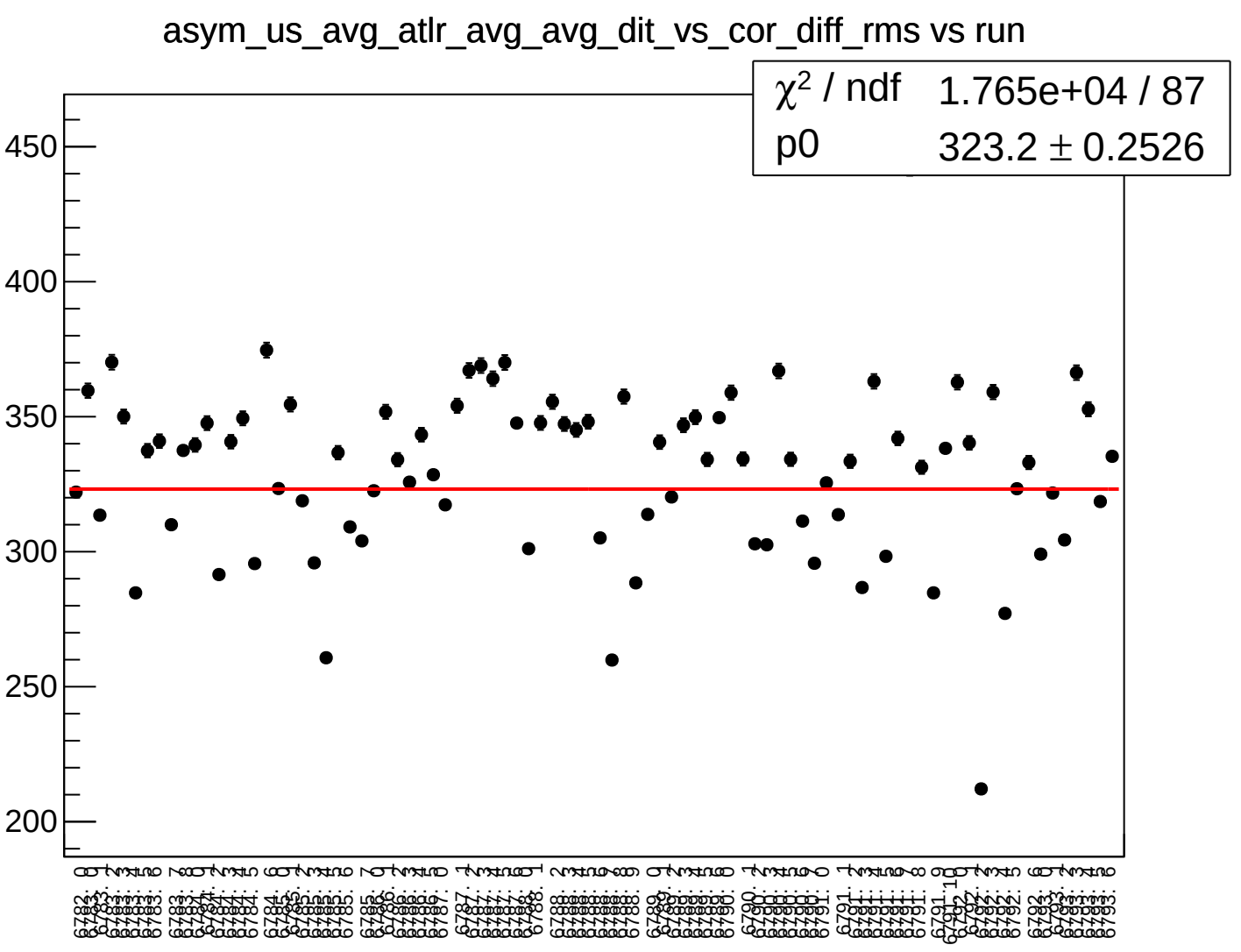

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 87
p0 −1.95e−13 ± 1.619e−13
pull
Entries 88
Mean 88.49
Std Dev 0

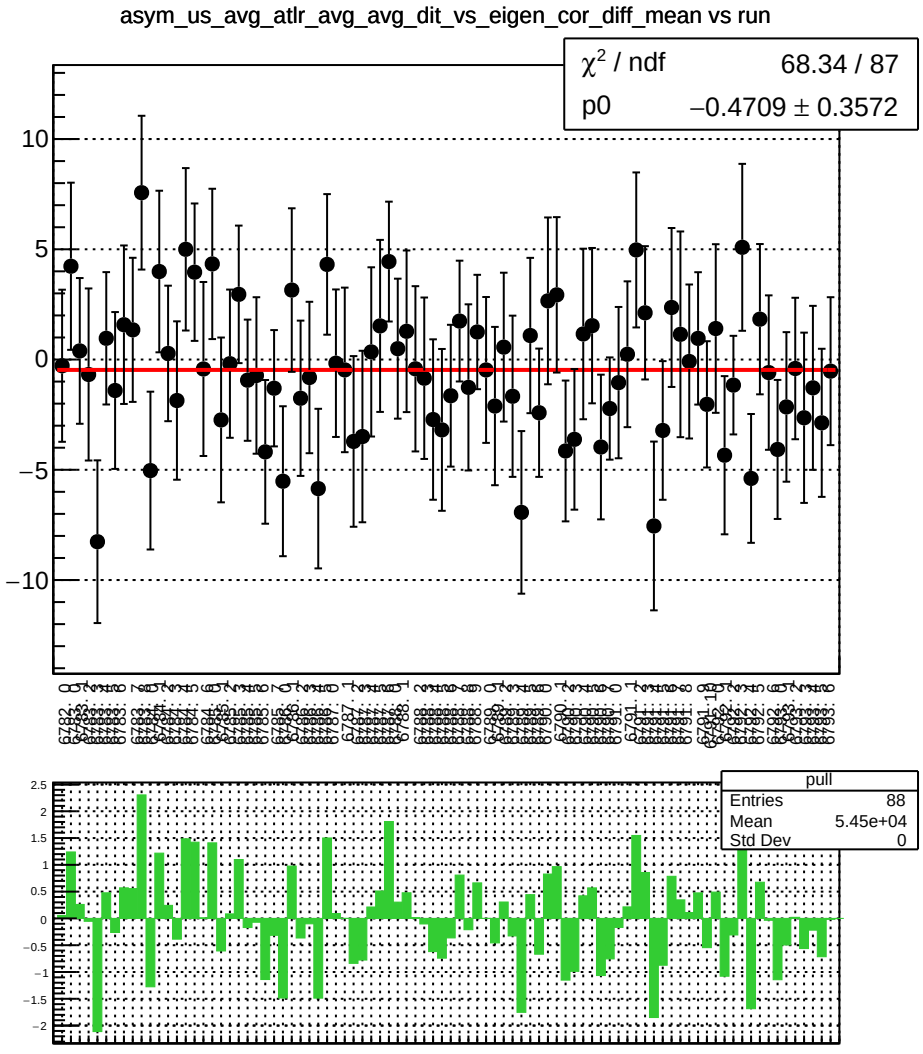

pull1D
Entries 88
Mean 0.06145
Std Dev 1.1

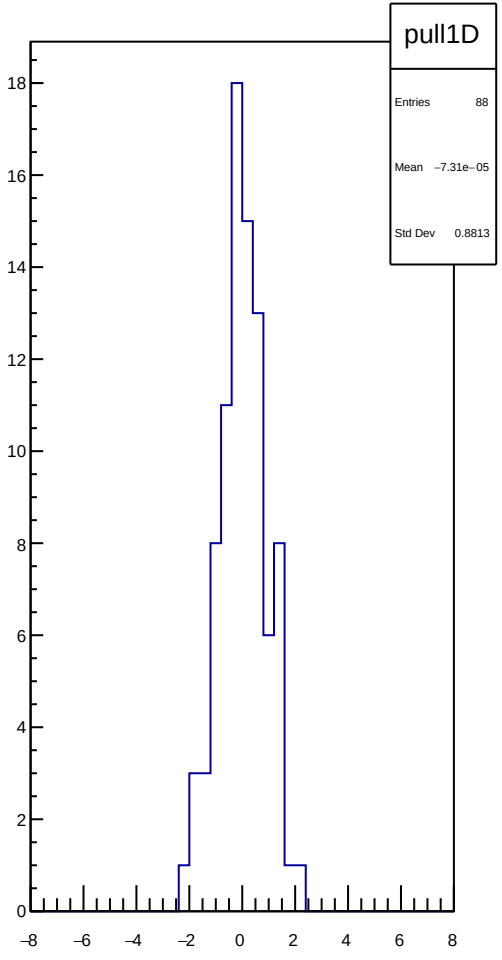

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.994e+05 / 87
p0 9.27e−11 ± 1.145e−13
1.2
1
0.8
0.6
0.4
0.2
0

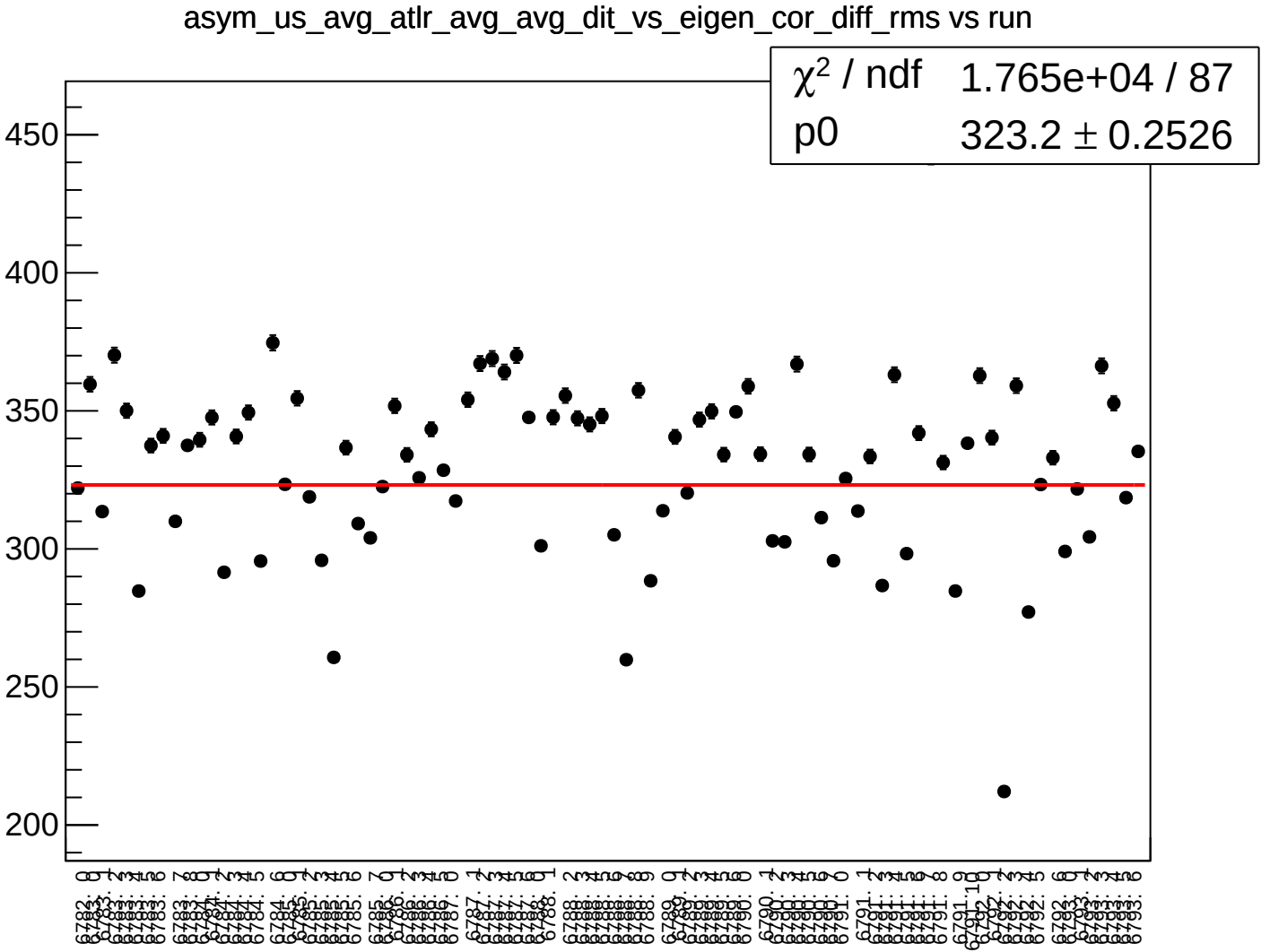

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.34 / 87
p0 −0.4709 ± 0.3572
pull
Entries 88
Mean 5.45e+04
Std Dev 0

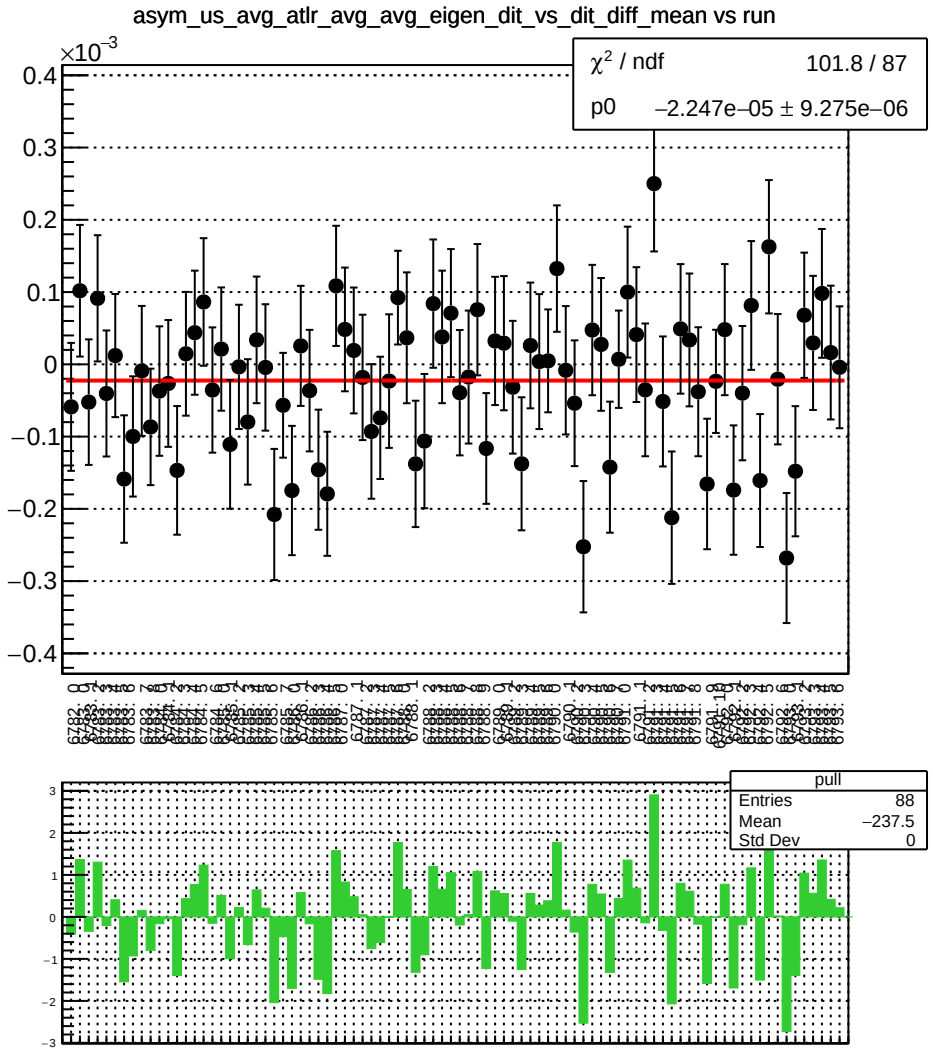

pull1D
Entries 88
Mean −7.31e−05
Std Dev 0.8813

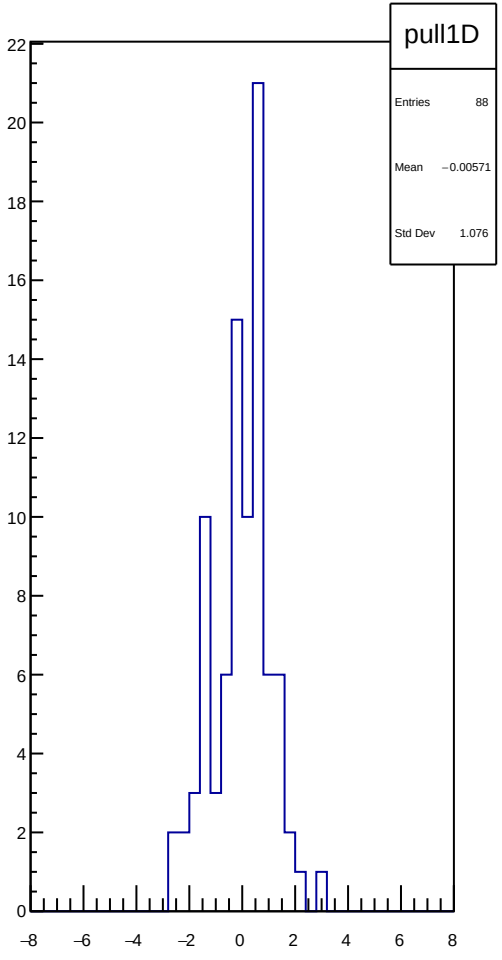

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 323.2 ± 0.2526
450
400
350
300
250
200

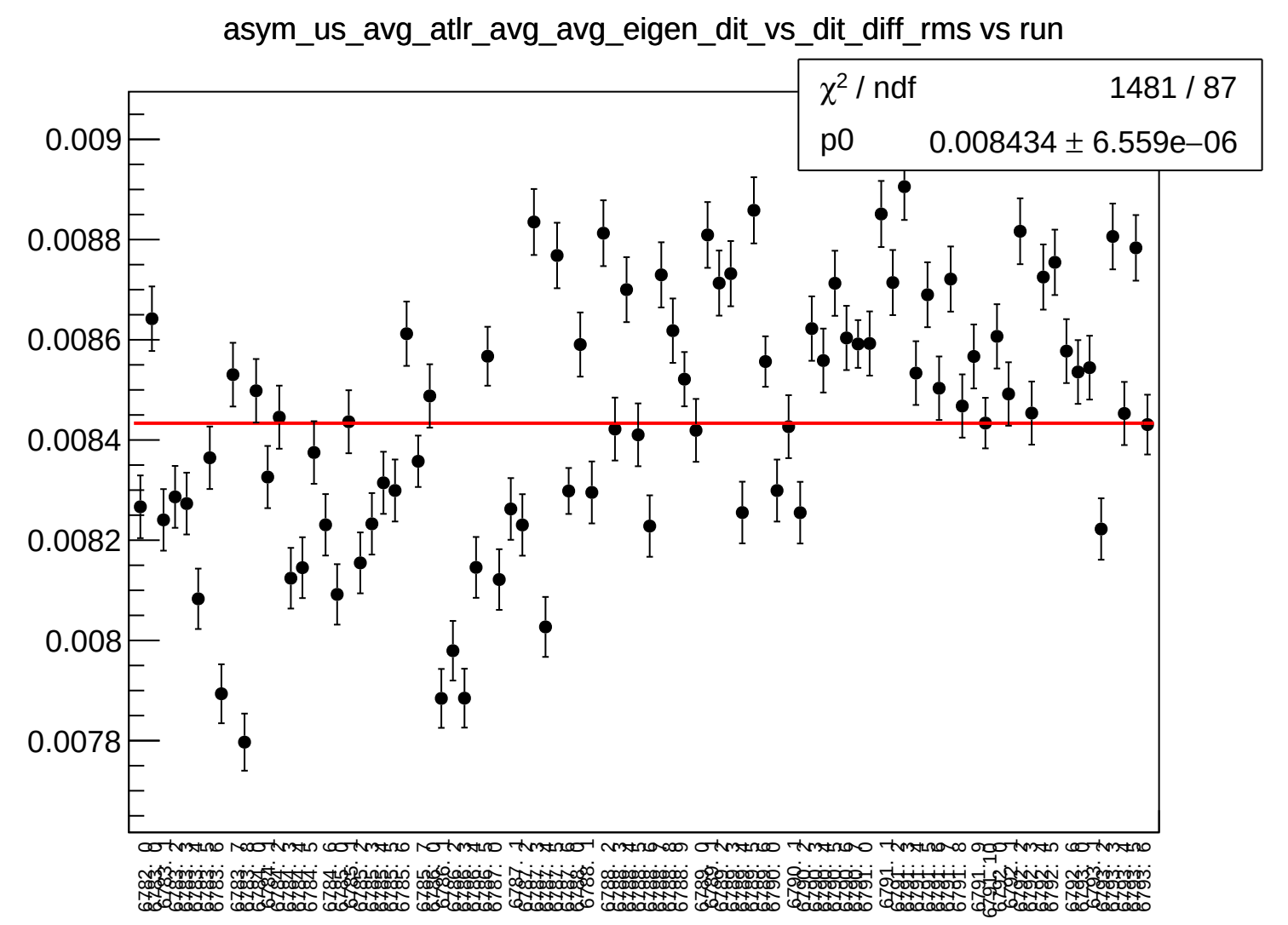

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.34 / 87
p0 −0.4709 ± 0.3572
pull
Entries 88
Mean 5.45e+04
Std Dev 0

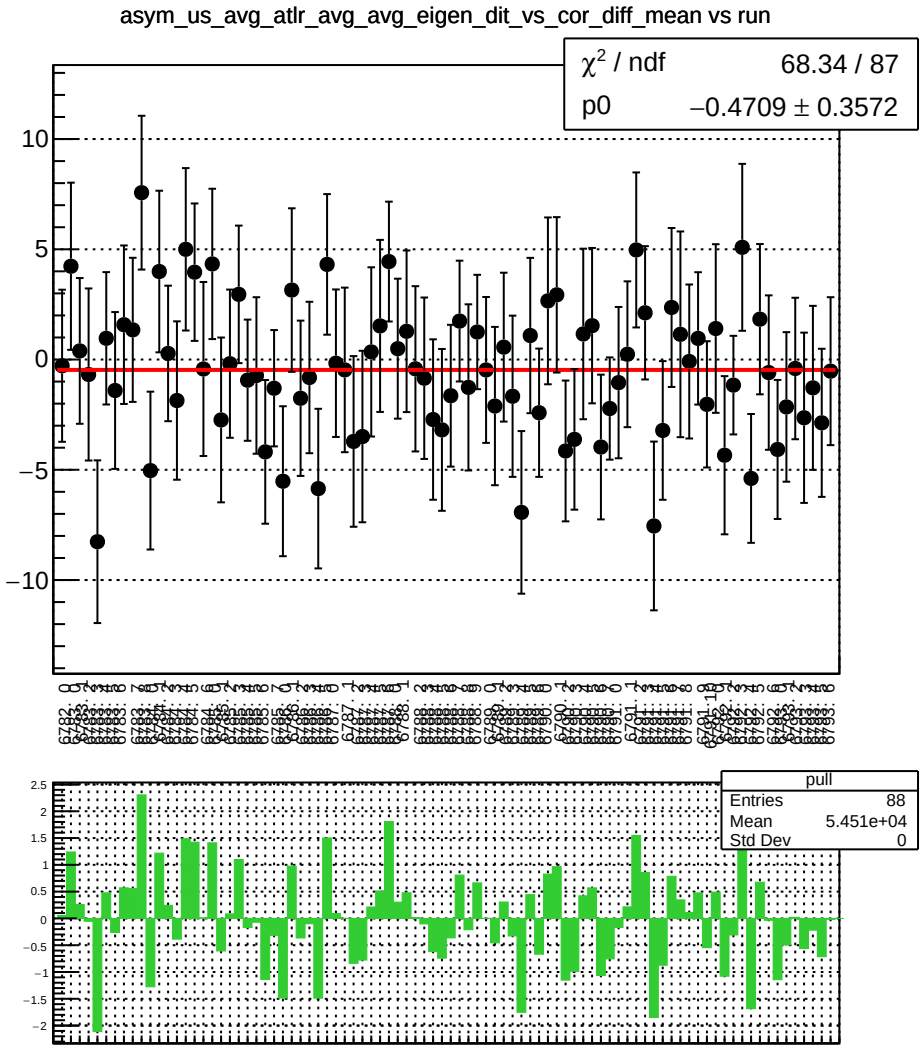

pull1D
Entries 88
Mean −7.31e−05
Std Dev 0.8813

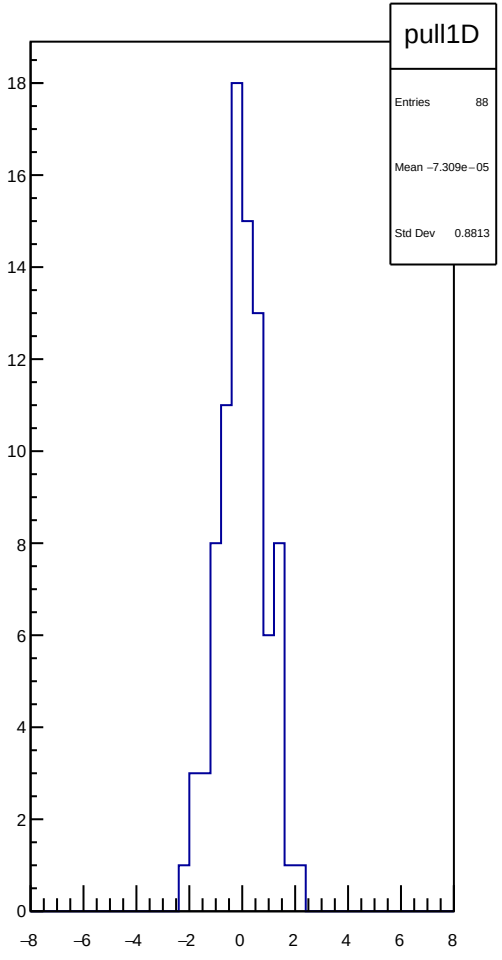

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 323.2 ± 0.2526
450
400
350
300
250
200

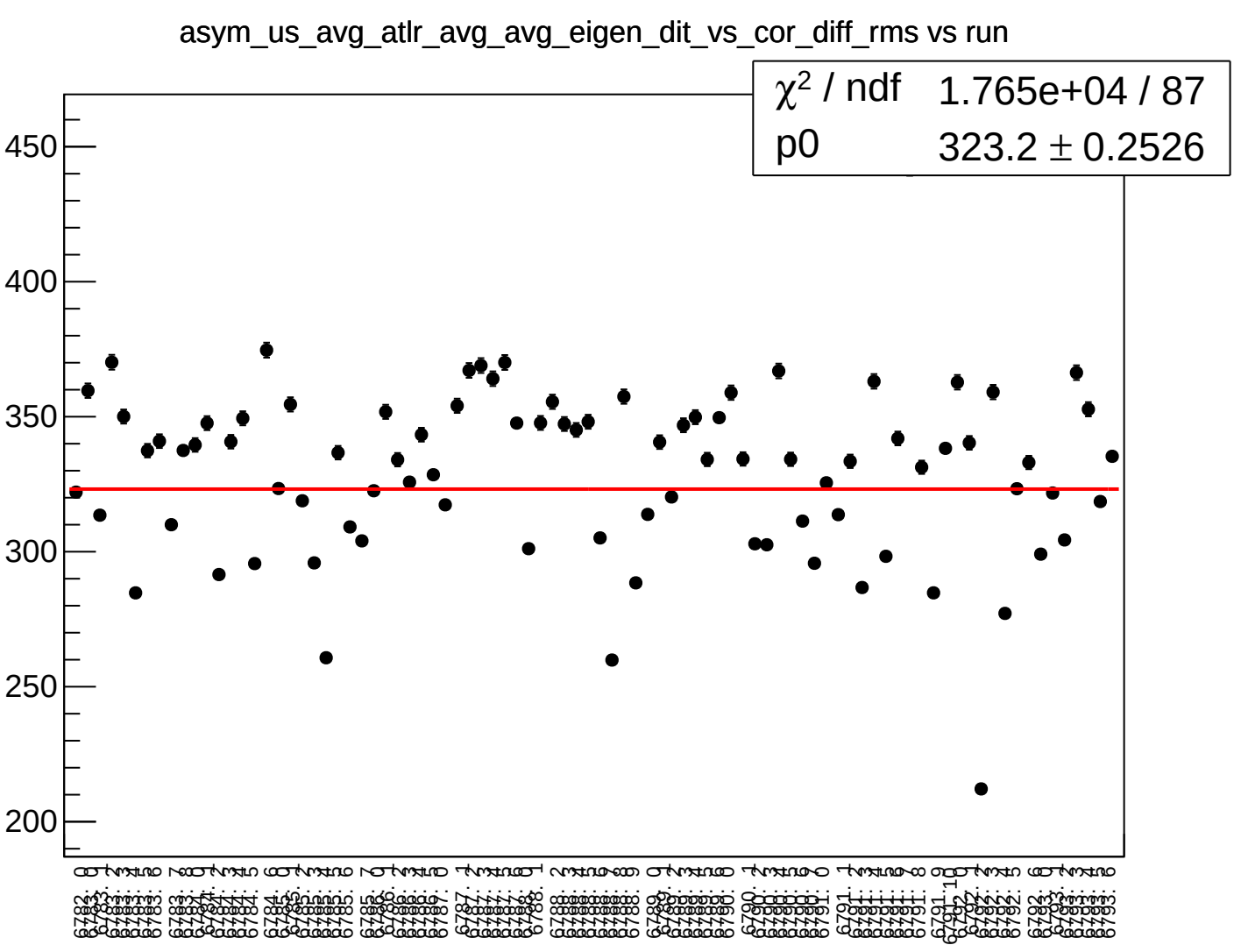

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 87
p0 −2.247e−05 ± 9.275e−06
pull
Entries 88
Mean −237.5
Std Dev 0

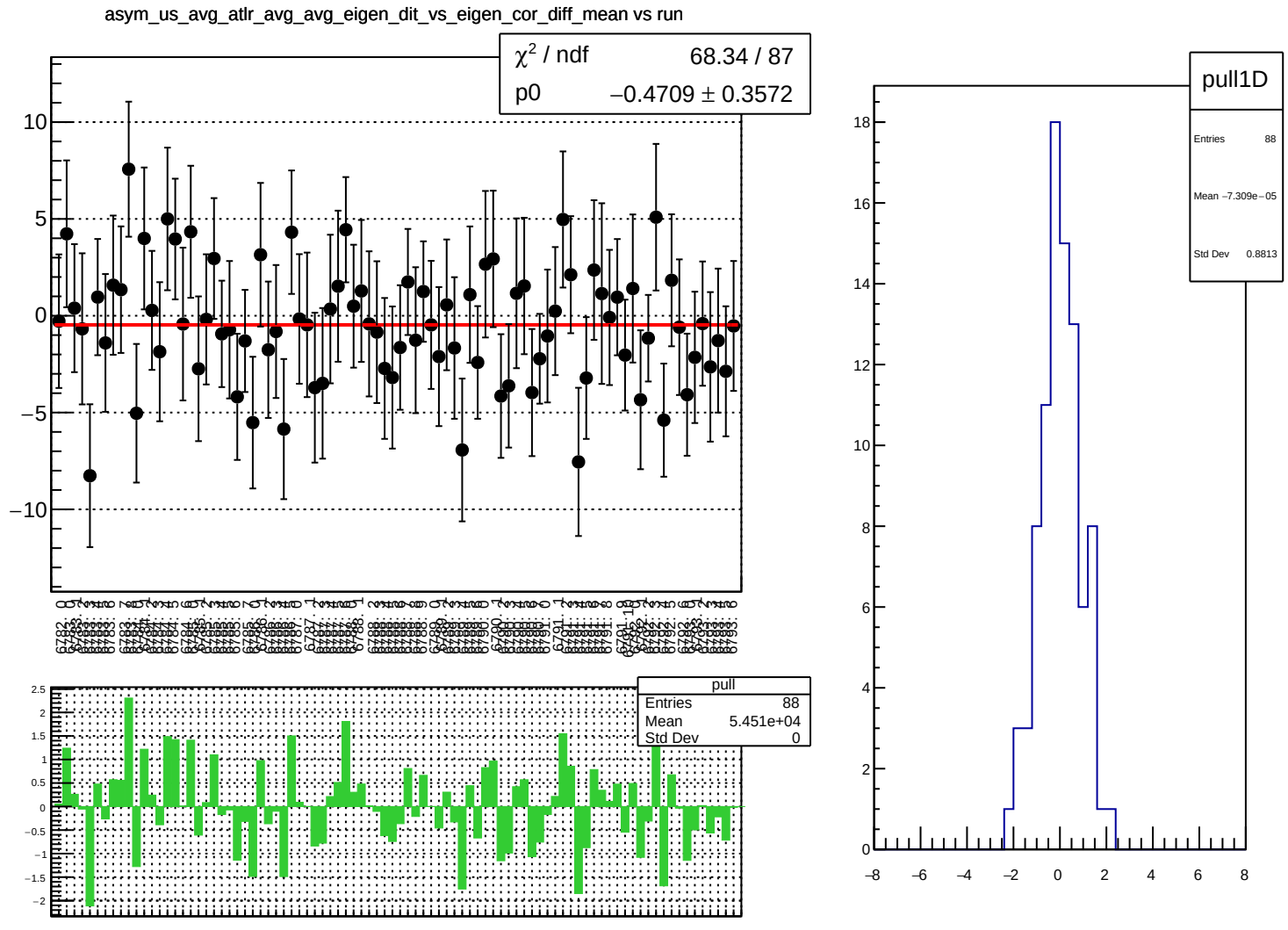

pull1D
Entries 88
Mean −0.00571
Std Dev 1.076

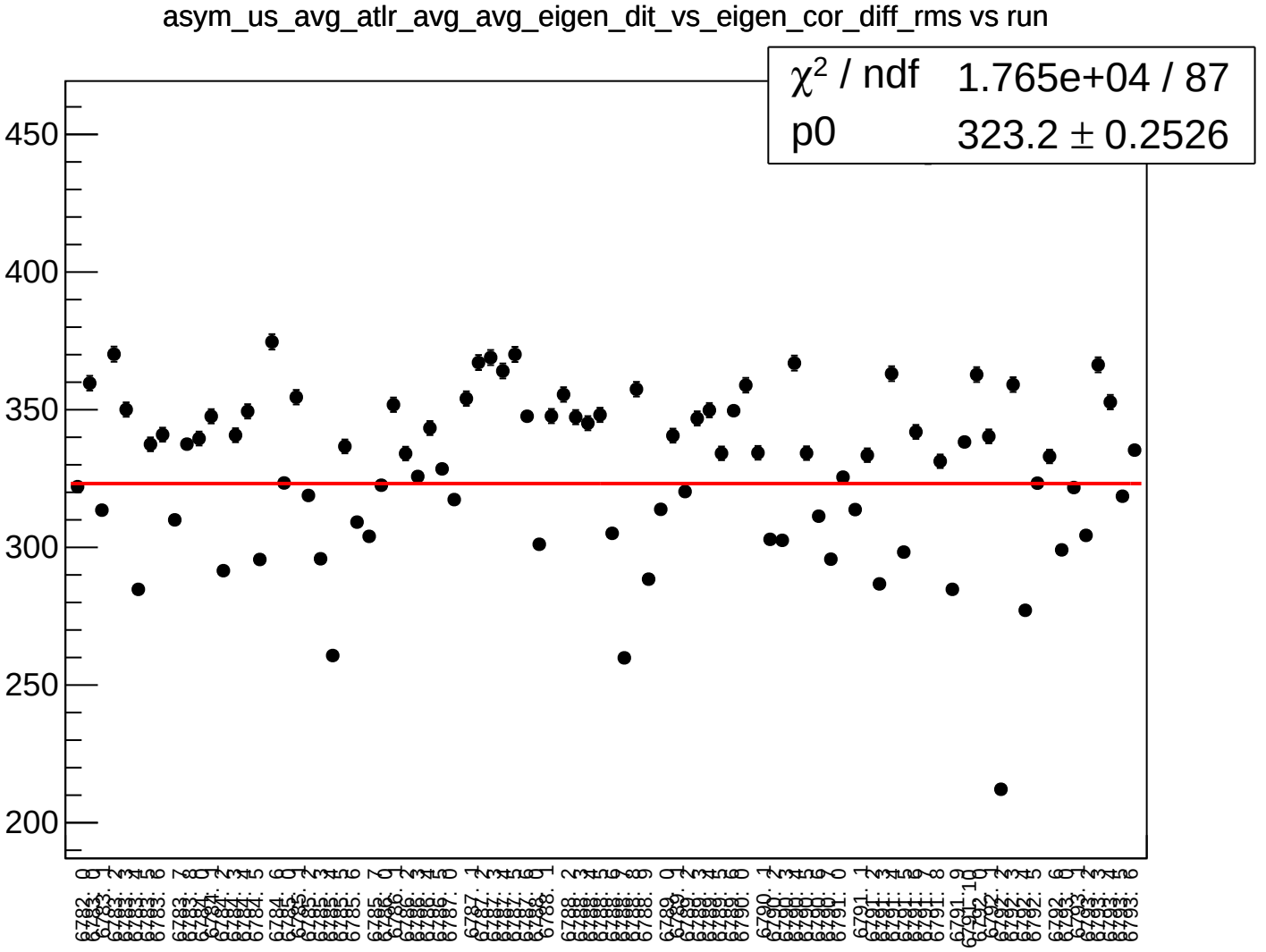

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1481 / 87
p0 0.008434 ± 6.559e−06
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078

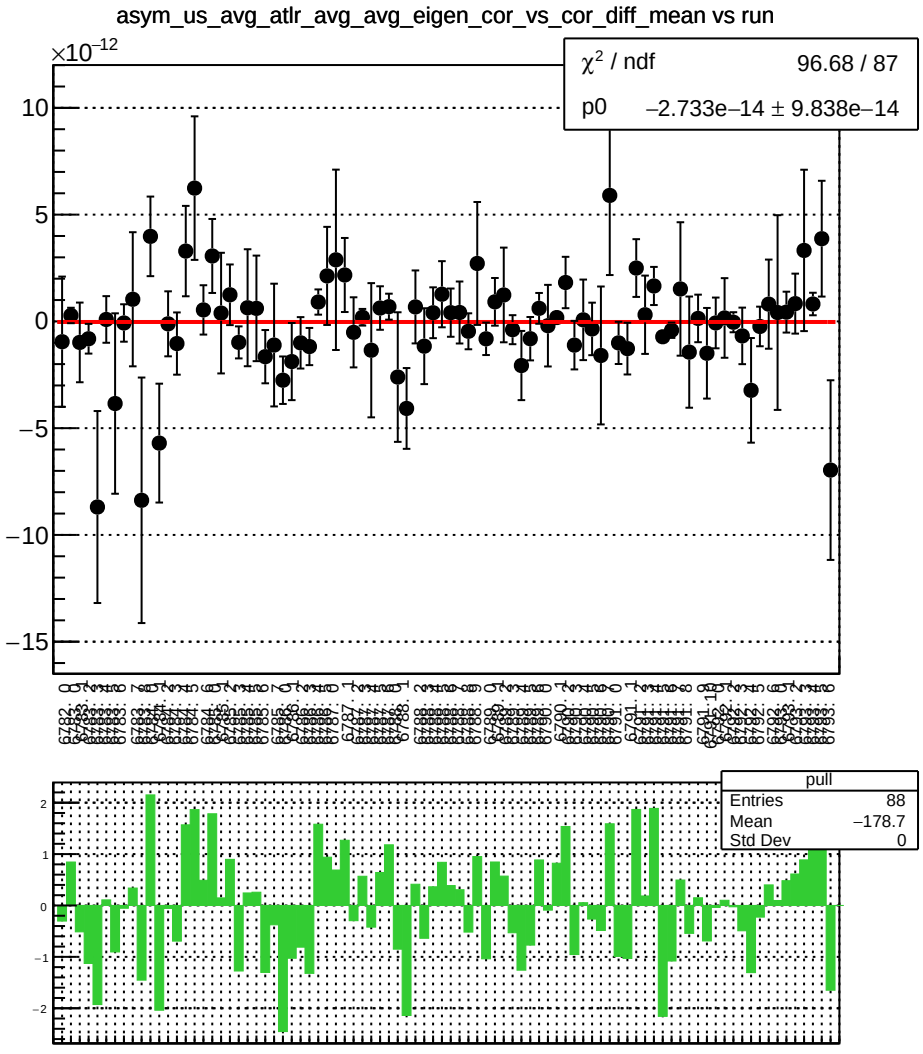

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.34 / 87
p0 −0.4709 ± 0.3572
pull
Entries 88
Mean 5.451e+04
Std Dev 0

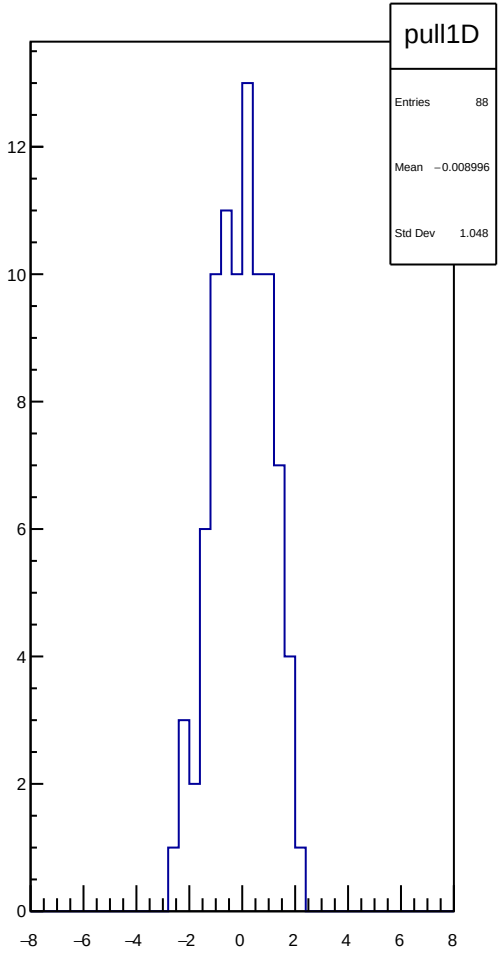

pull1D
Entries 88
Mean −7.309e−05
Std Dev 0.8813

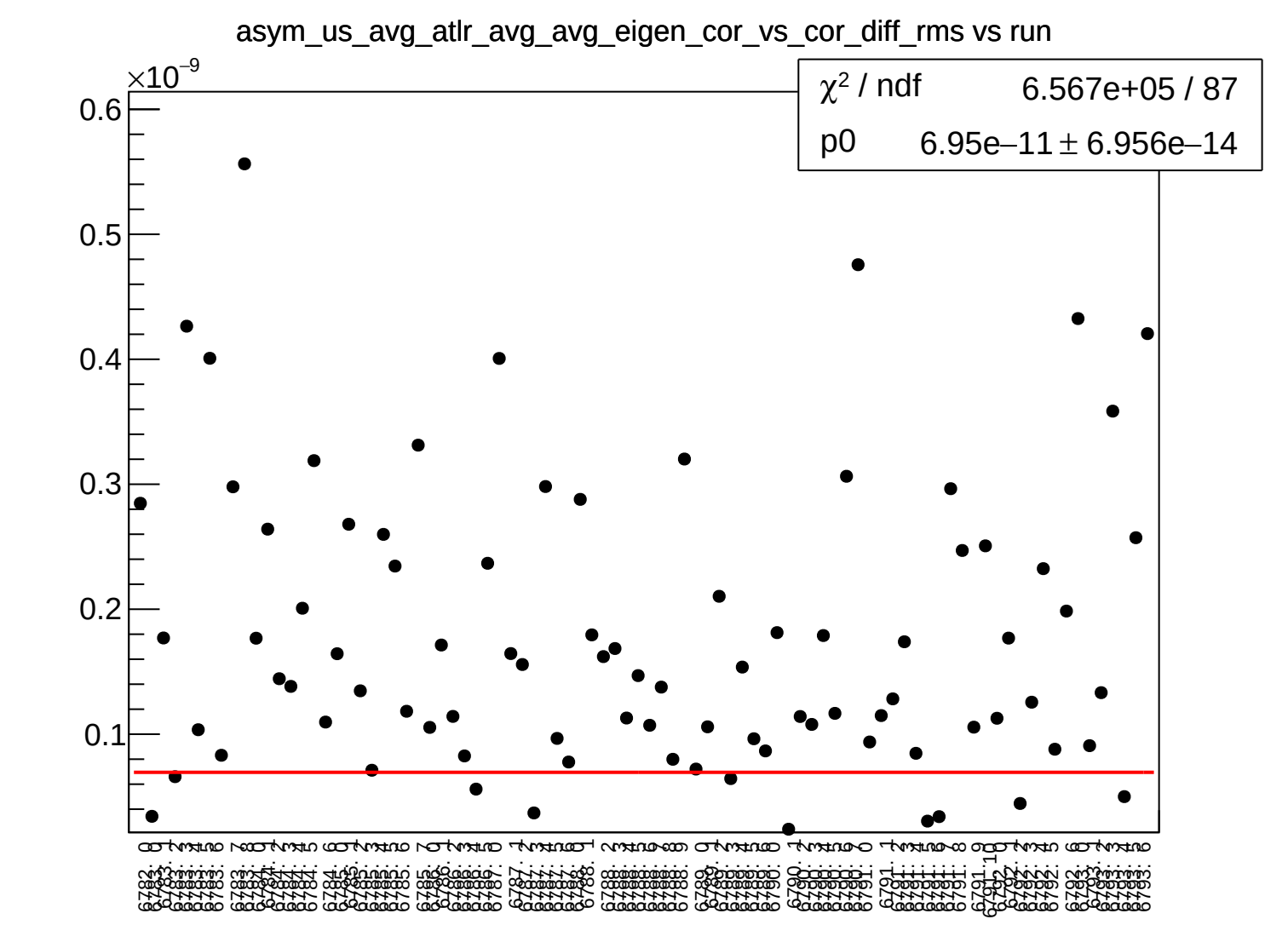

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 323.2 ± 0.2526
450
400
350
300
250
200

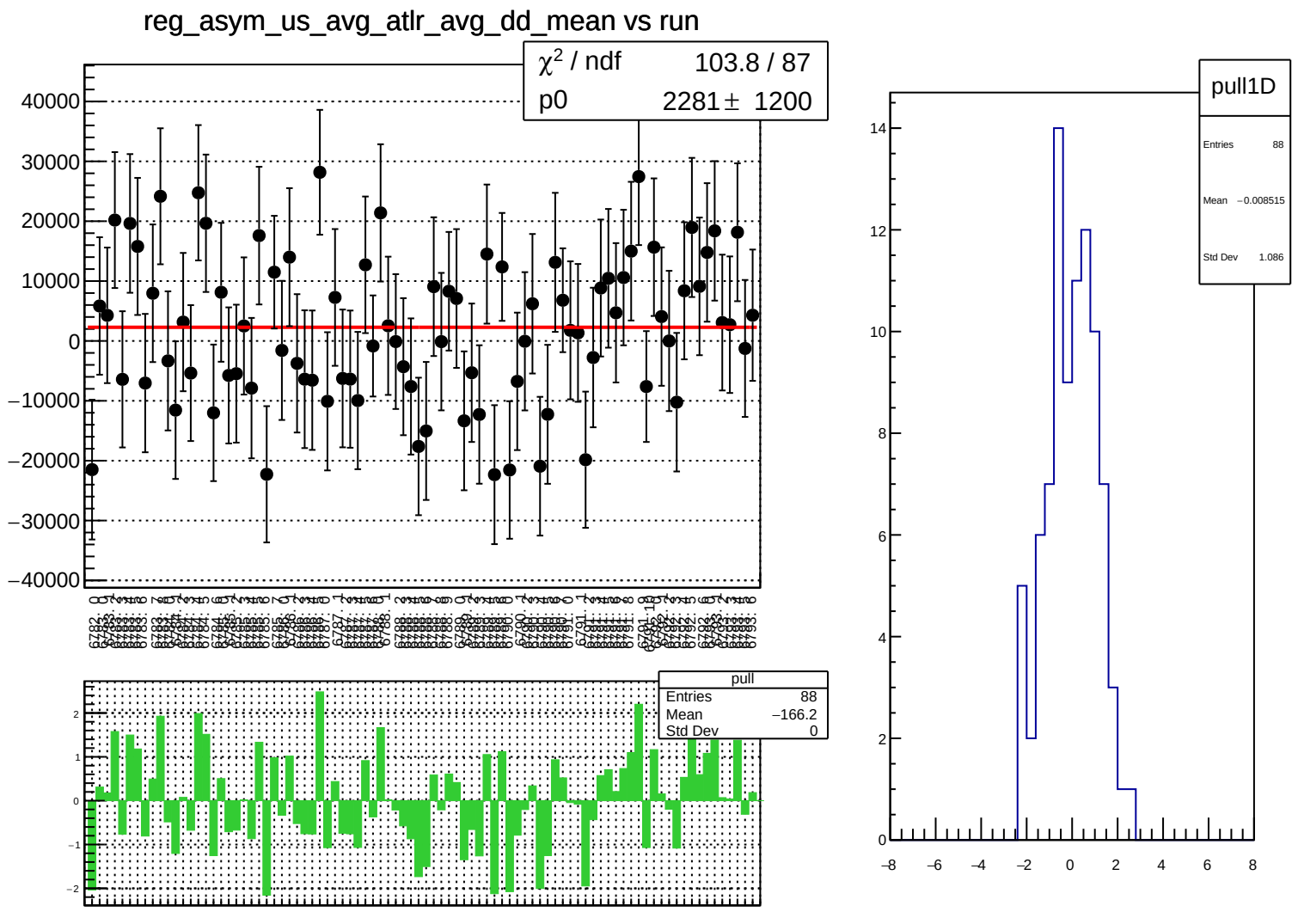

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.34 / 87
p0 −0.4709 ± 0.3572
pull
Entries 88
Mean 5.451e+04
Std Dev 0
pull1D
Entries 88
Mean −7.309e−05
Std Dev 0.8813

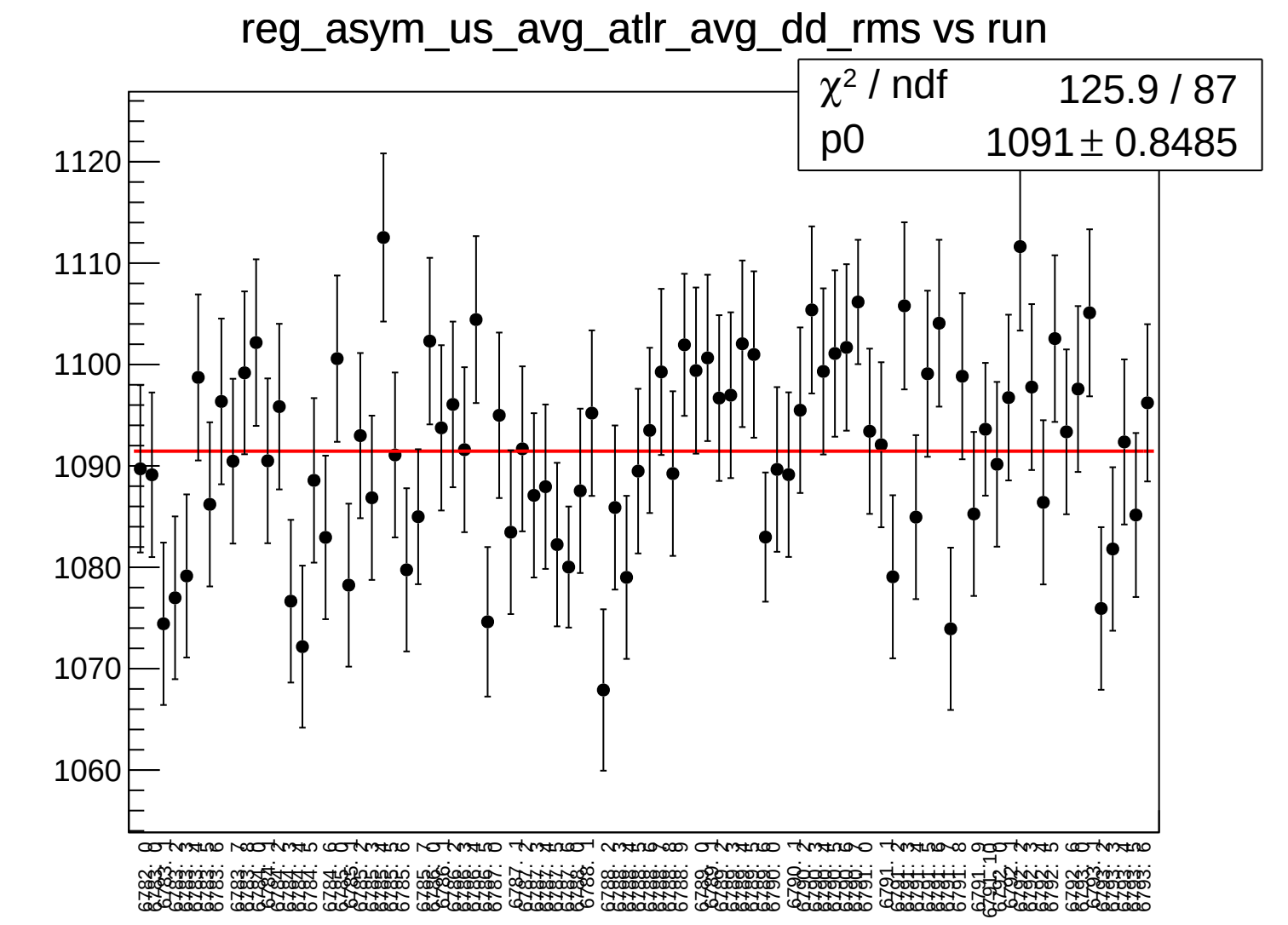

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 323.2 ± 0.2526
450
400
350
300
250
200

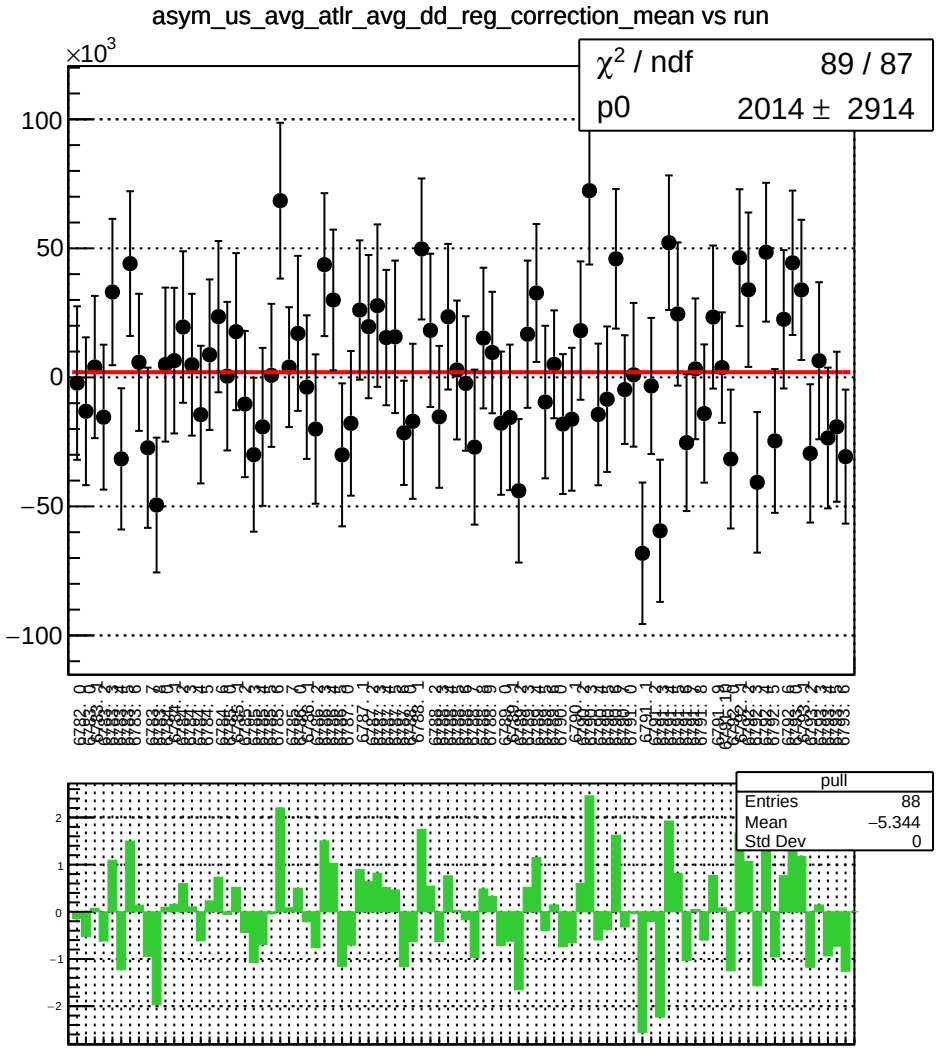

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.68 / 87
p0 −2.733e−14 ± 9.838e−14
pull
Entries 88
Mean −178.7
Std Dev 0

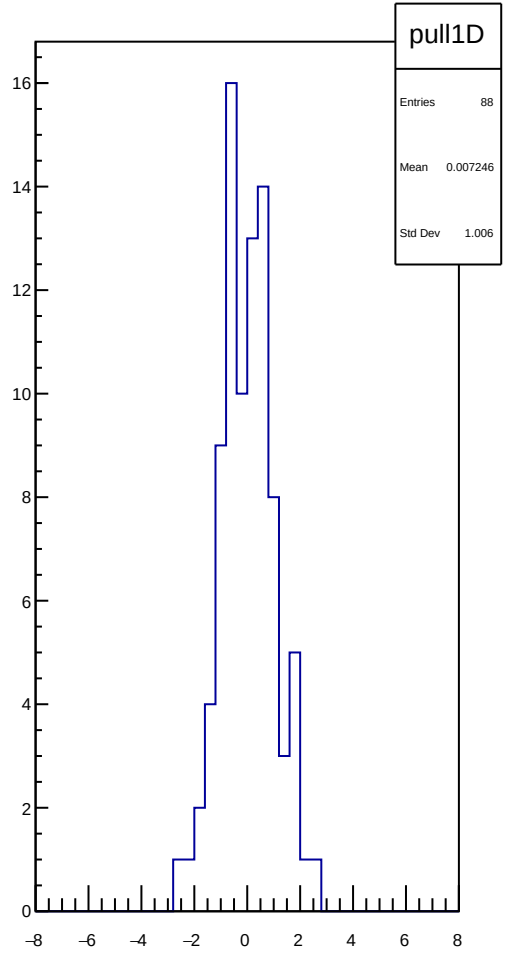

pull1D
Entries 88
Mean −0.008996
Std Dev 1.048

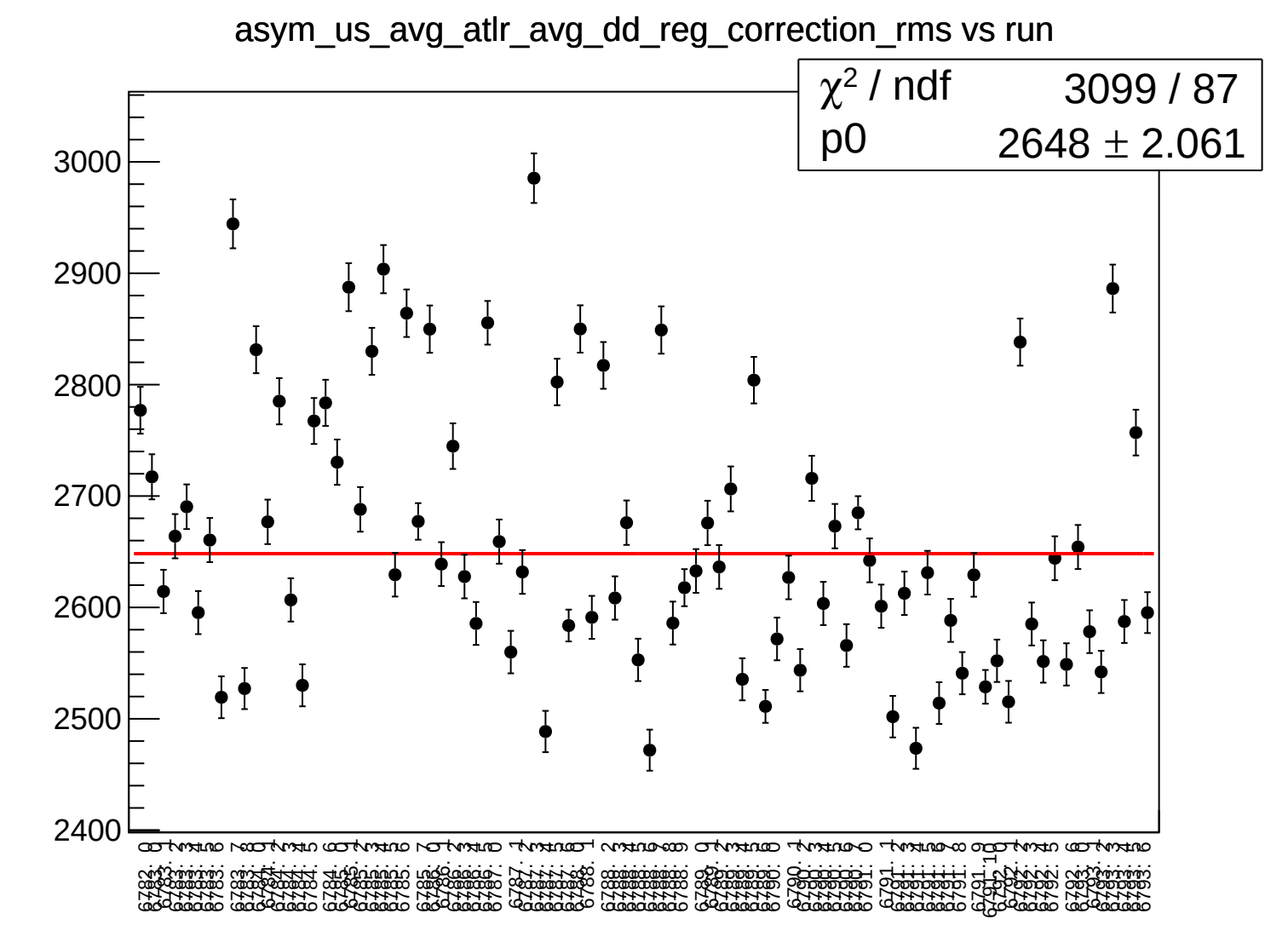

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.567e+05 / 87
p0 6.95e−11 ± 6.956e−14
0.6
0.5
0.4
0.3
0.2
0.1

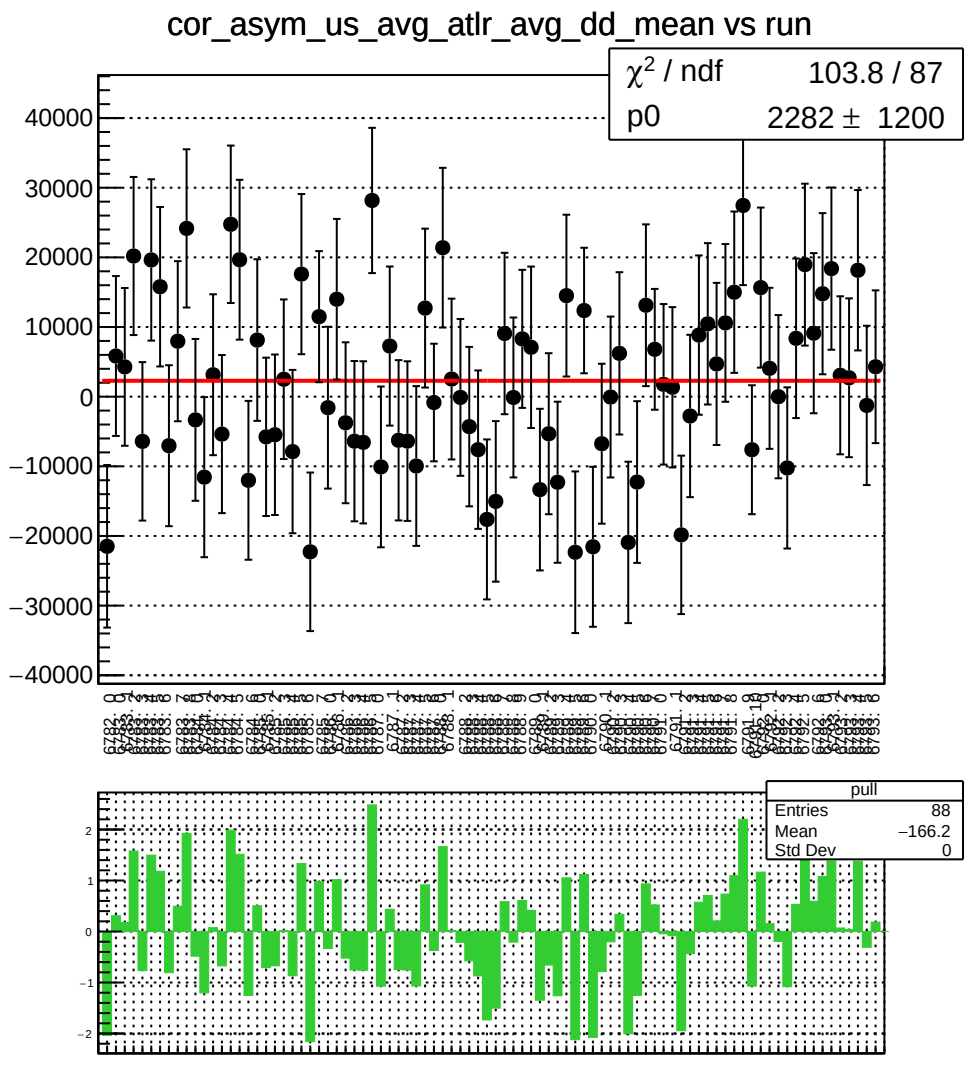

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ^2 / ndf 103.8 / 87
p0 2281 ± 1200
pull
Entries 88
Mean −166.2
Std Dev 0
pull1D
Entries 88
Mean −0.008515
Std Dev 1.086

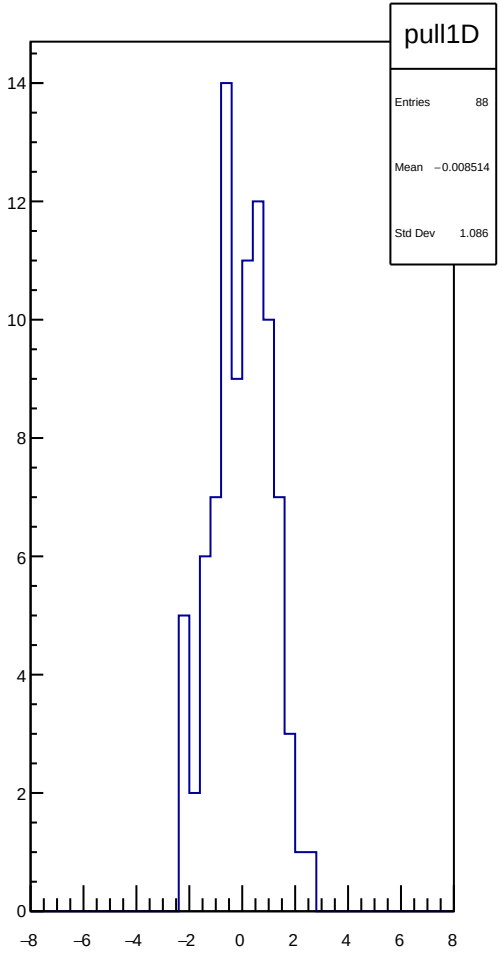

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 125.9 / 87
p0 1091 ± 0.8485
1120
1110
1100
1090
1080
1070
1060

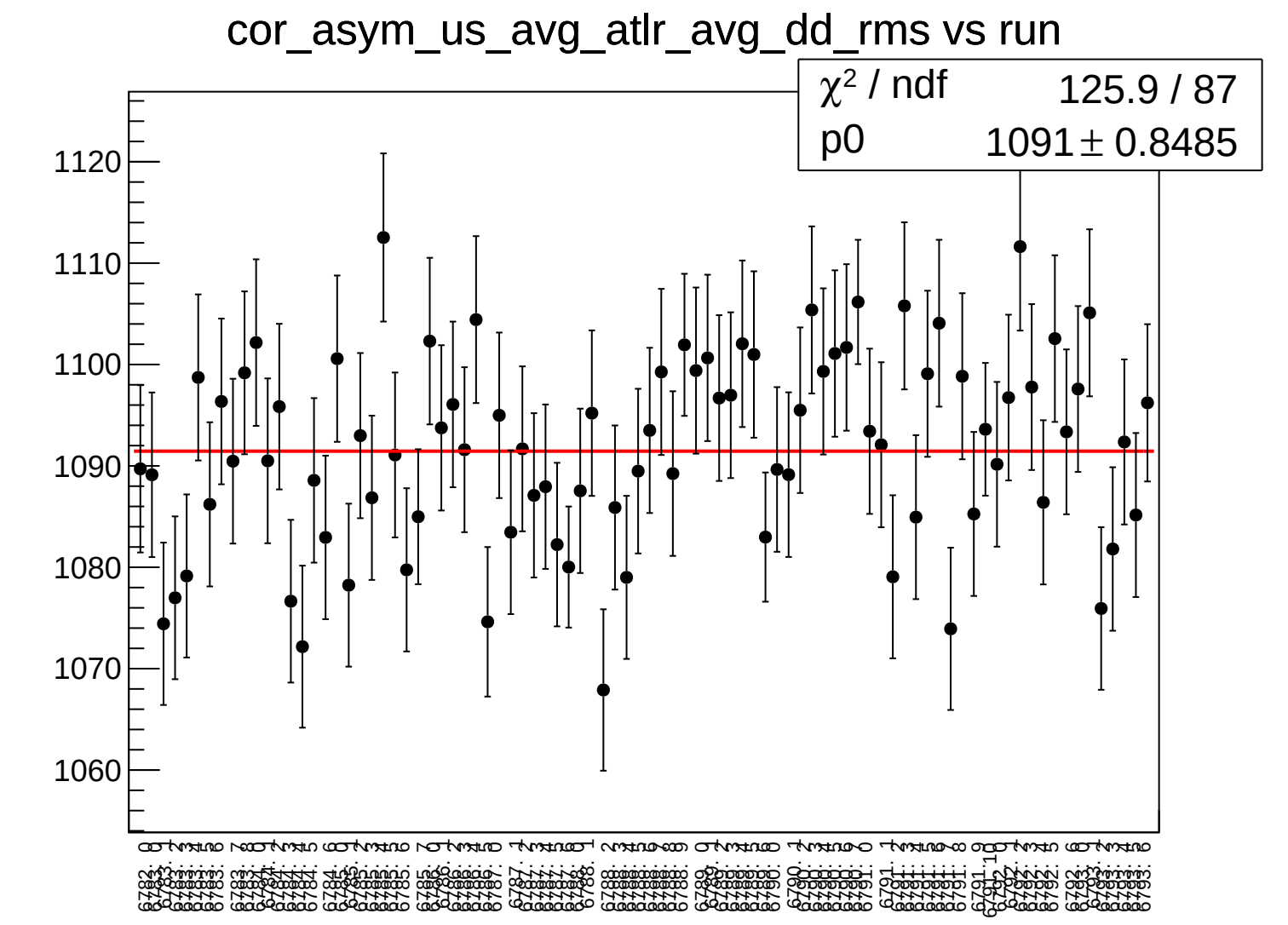

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89 / 87
p0 2014 ± 2914
100
50
0
−50
−100
pull
Entries 88
Mean −5.344
Std Dev 0
2
1
0
−1
−2

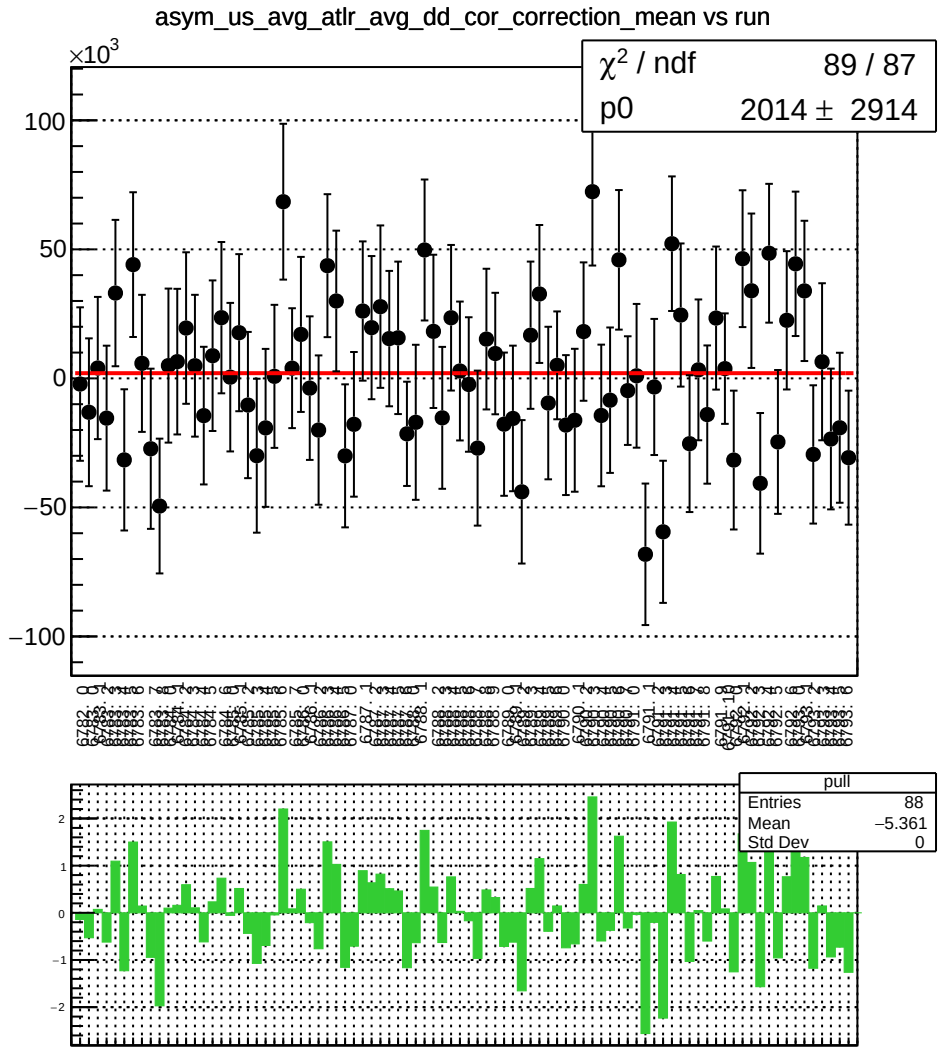

pull1D
Entries 88
Mean 0.007246
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

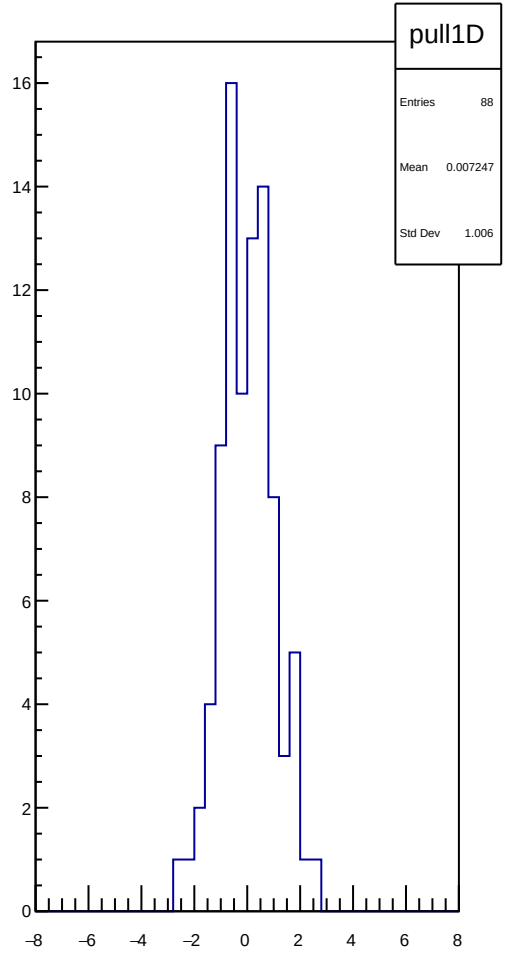

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3099 / 87
p0 2648 ± 2.061
3000
2900
2800
2700
2600
2500
2400

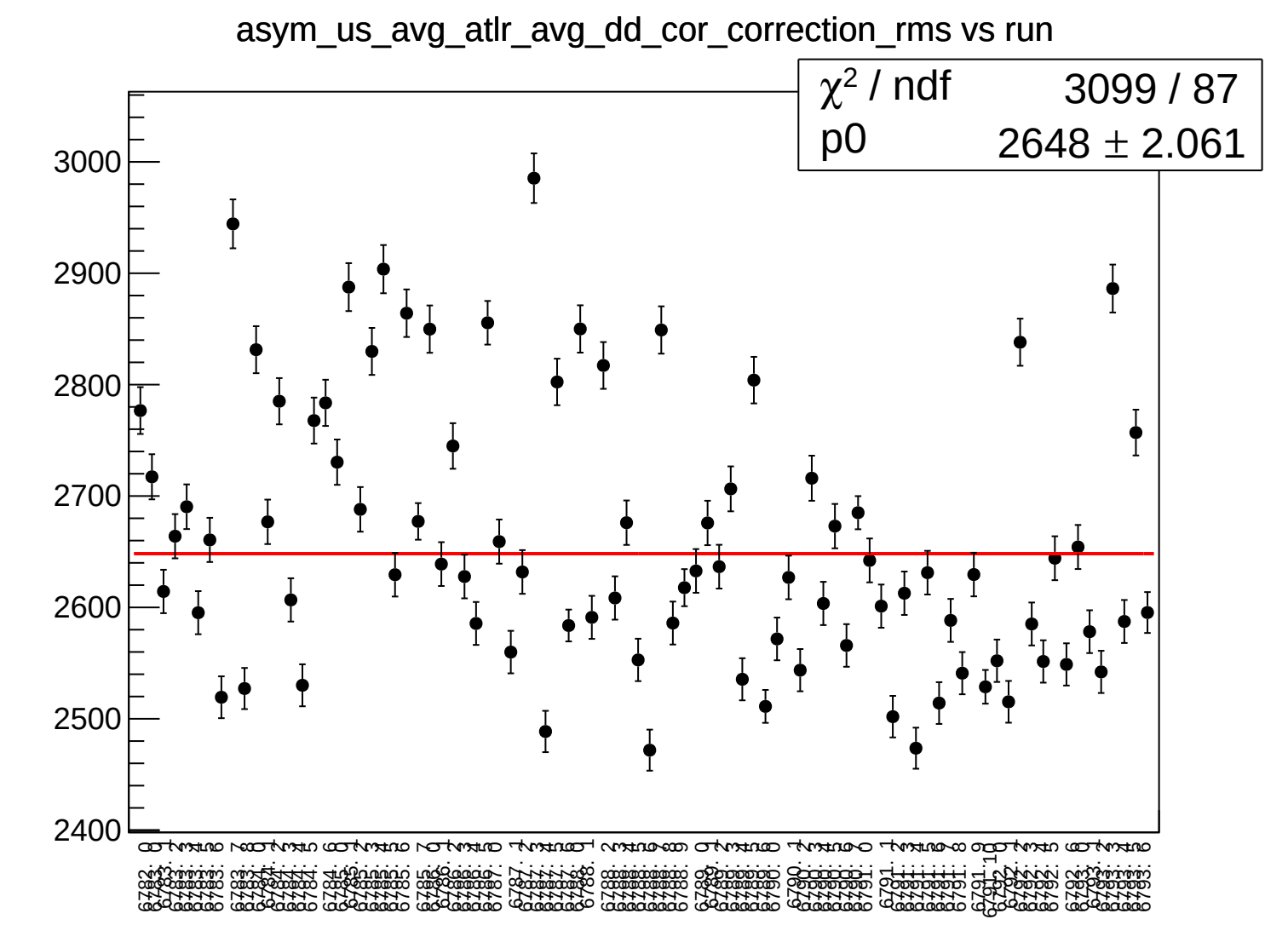

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 103.8 / 87
p0 2282 ± 1200
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −166.2
Std Dev 0
2
1
0
−1
−2

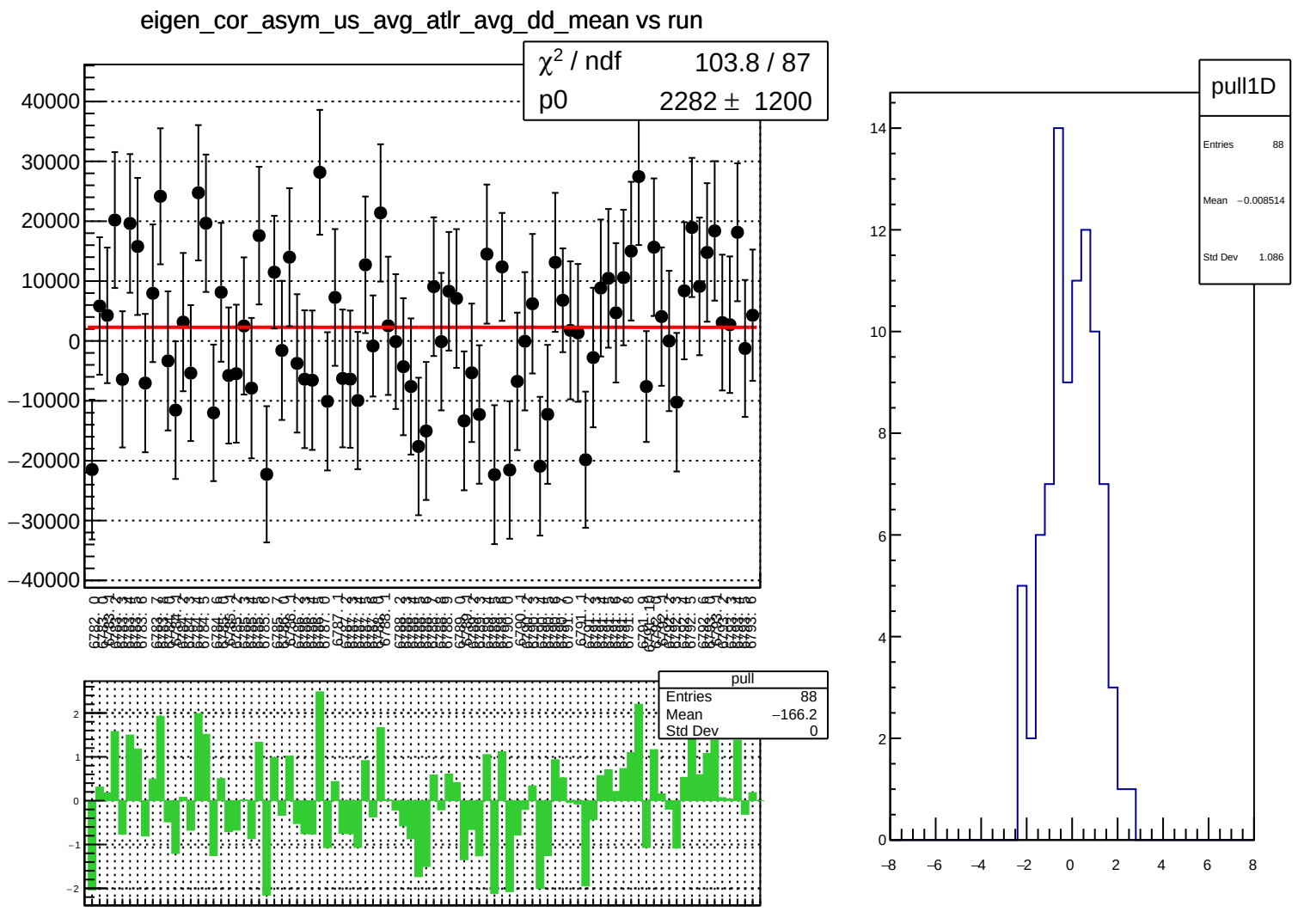

pull1D
Entries 88
Mean −0.008514
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

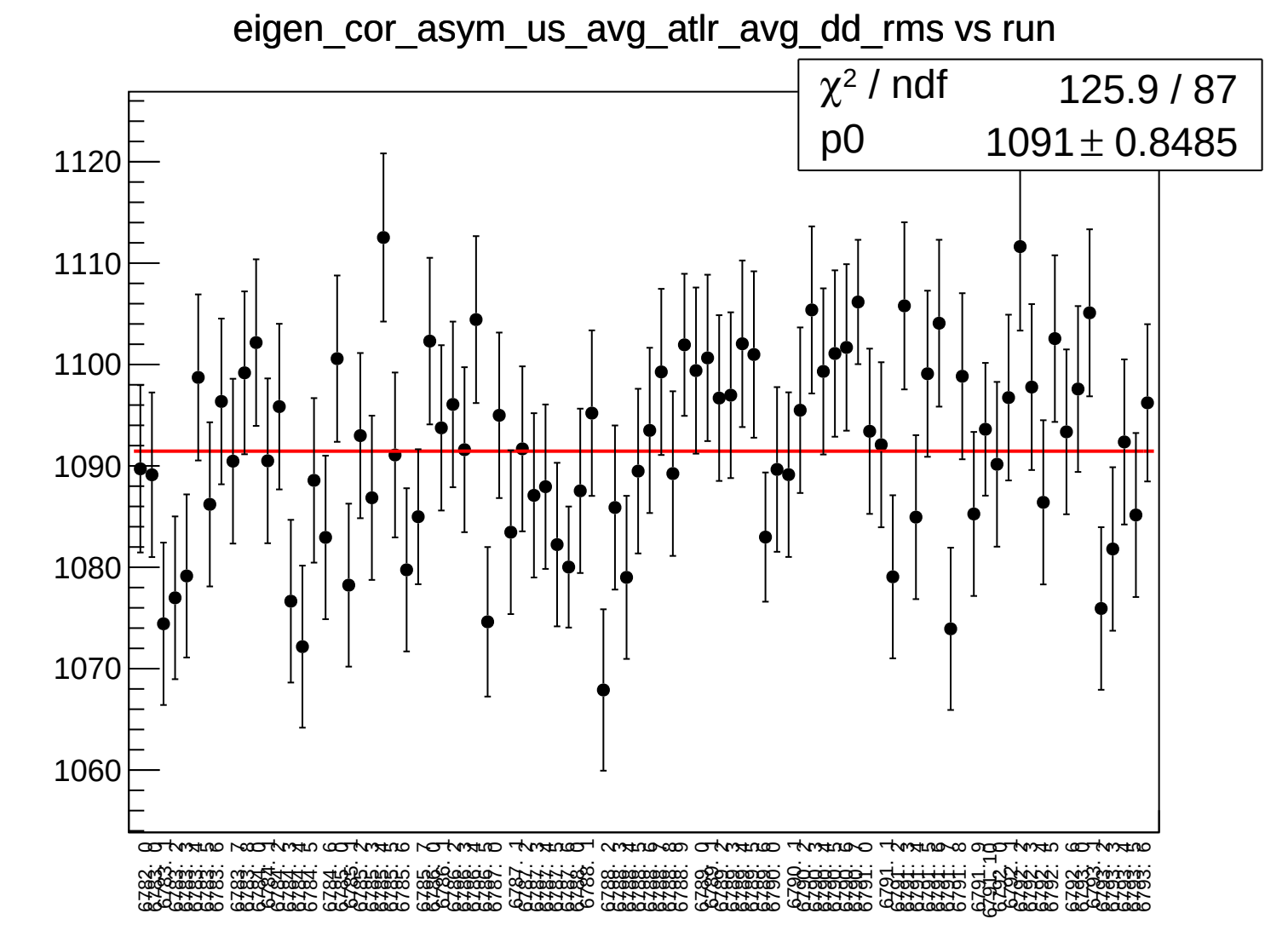

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 125.9 / 87
p0 1091 ± 0.8485
1120
1110
1100
1090
1080
1070
1060

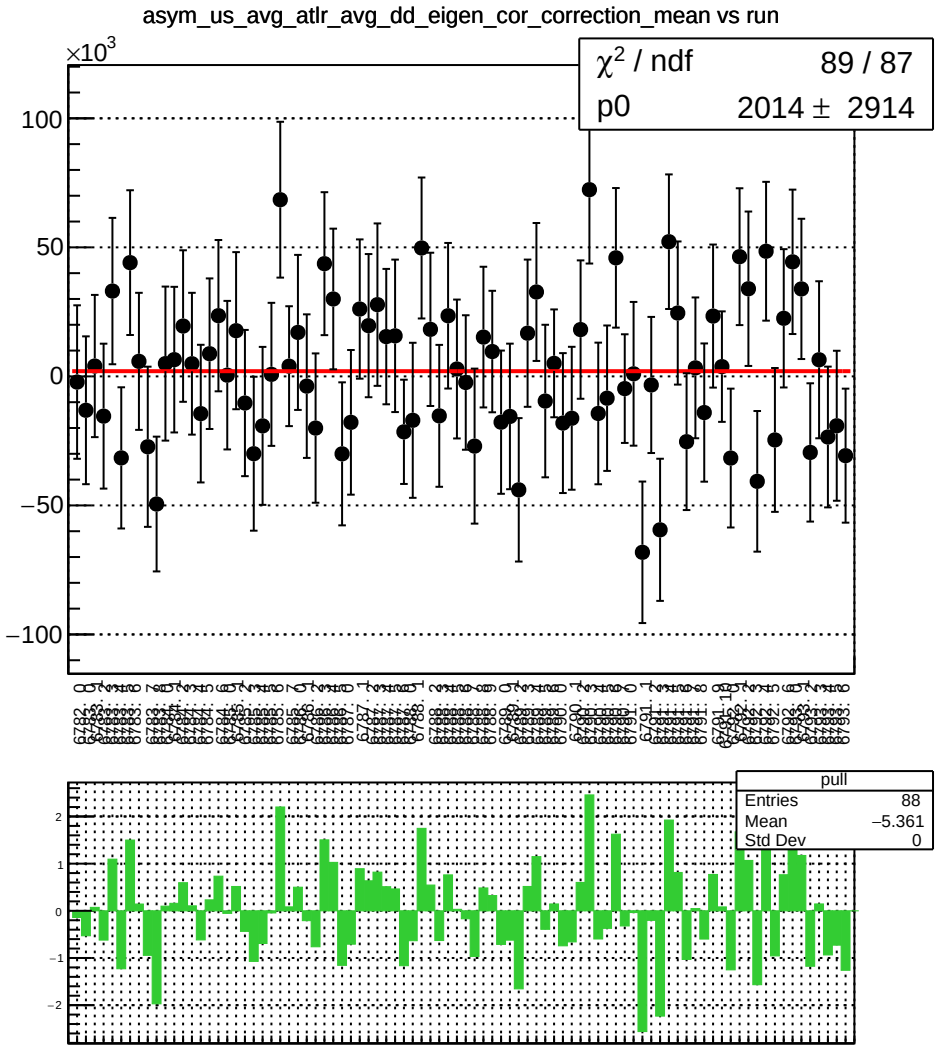

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89 / 87
p0 2014 ± 2914
100
50
0
−50
−100
pull
Entries 88
Mean −5.361
Std Dev 0
2
1
0
−1
−2

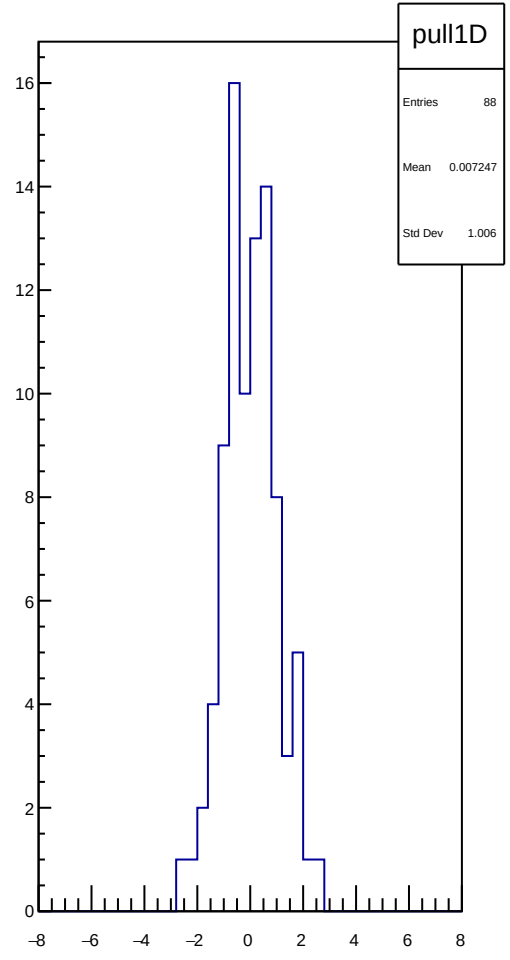

pull1D
Entries 88
Mean 0.007247
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

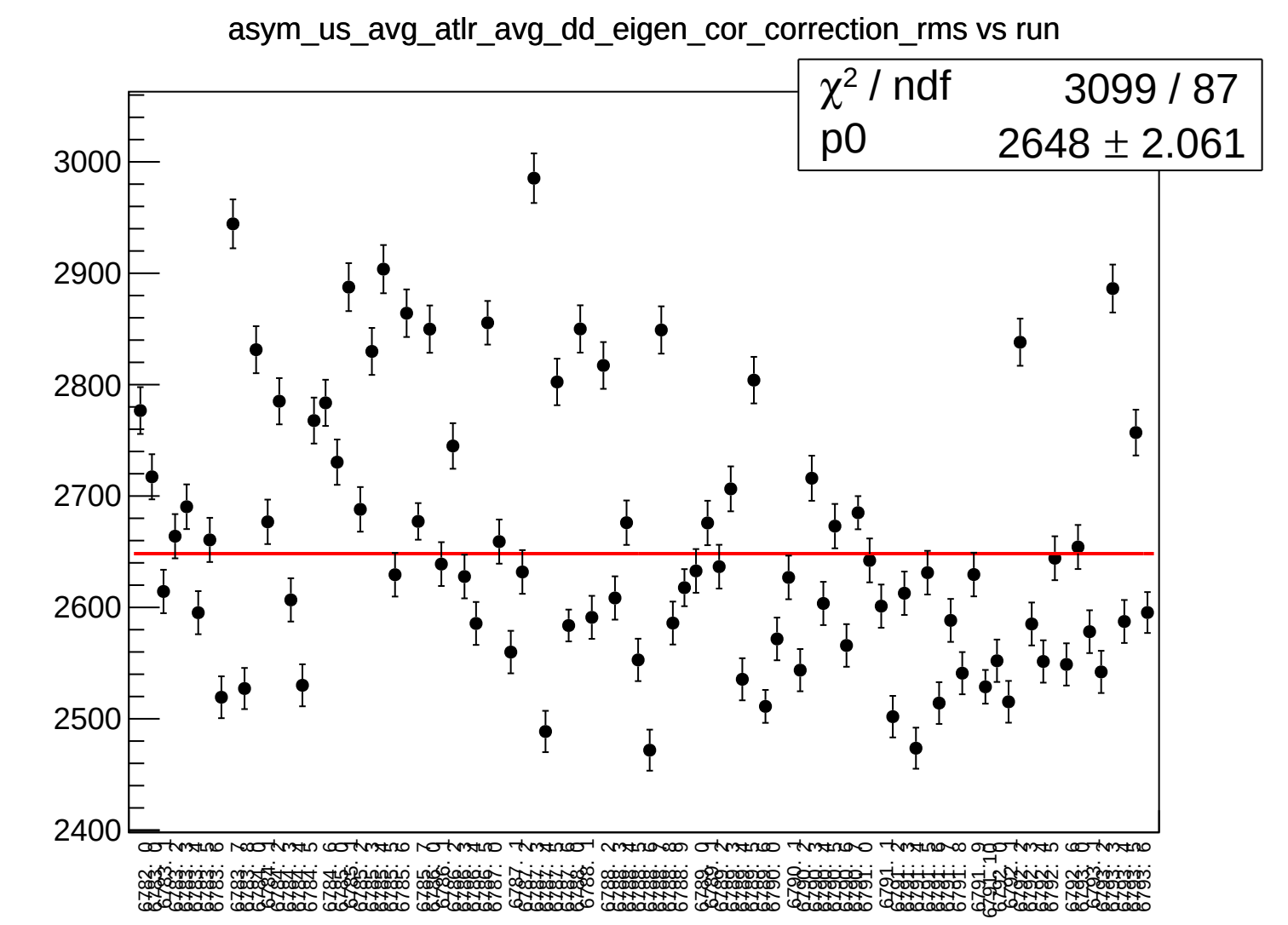

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3099 / 87
p0 2648 ± 2.061
3000
2900
2800
2700
2600
2500
2400

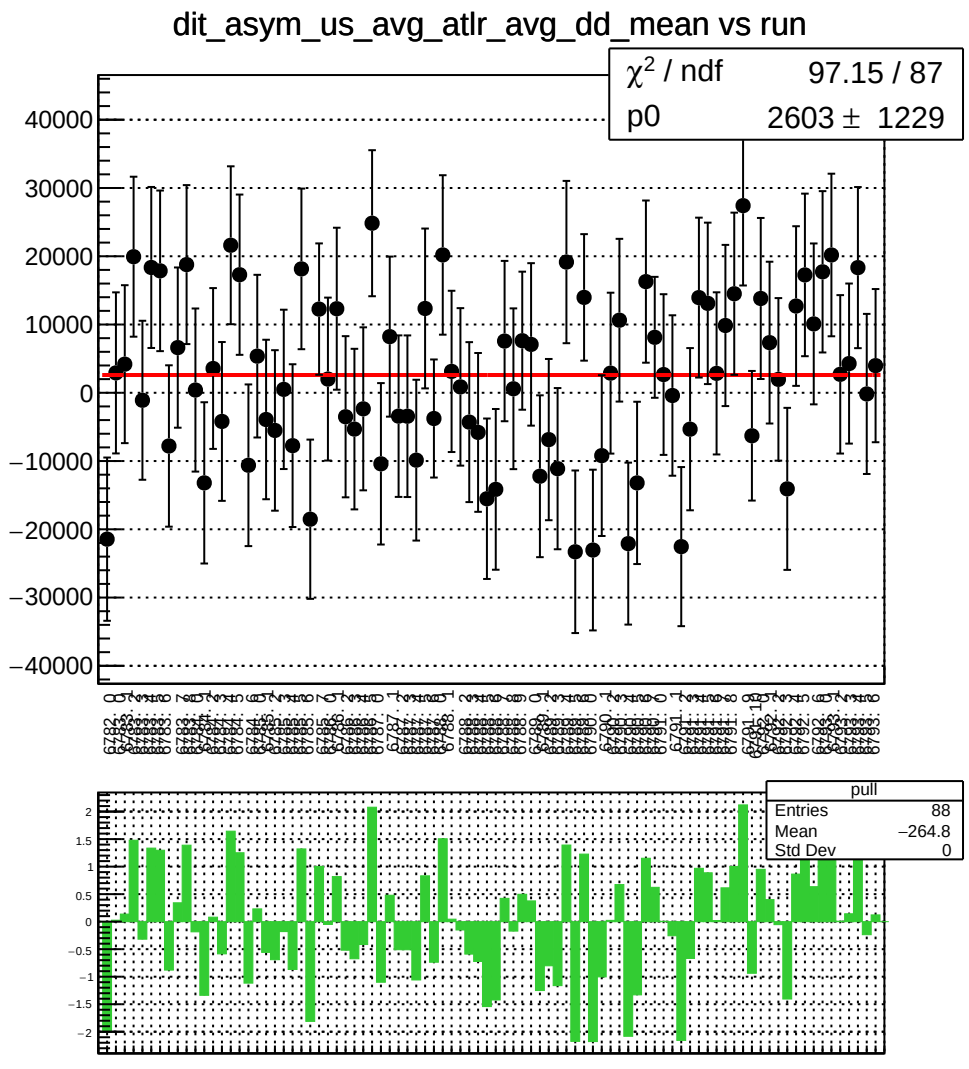

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 103.8 / 87
p0 2282 ± 1200
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −166.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008514
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

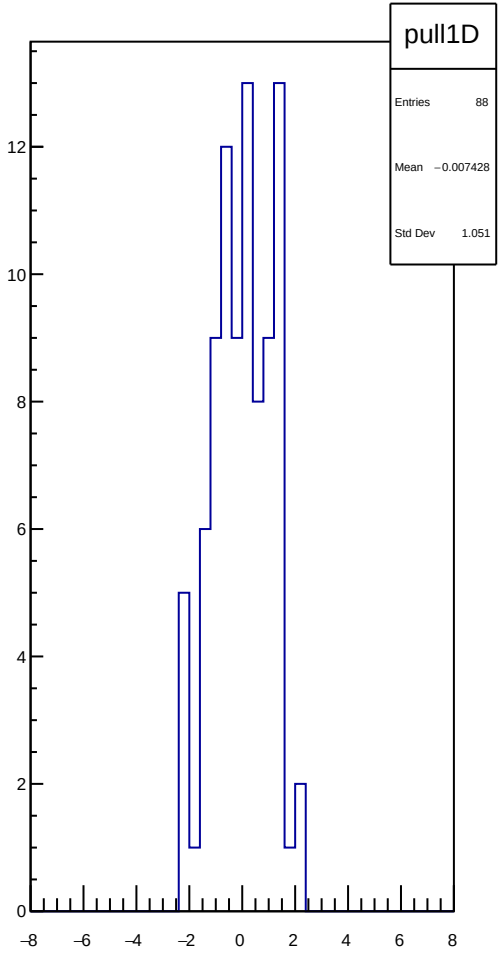

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 125.9 / 87
p0 1091 ± 0.8485
1120
1110
1100
1090
1080
1070
1060

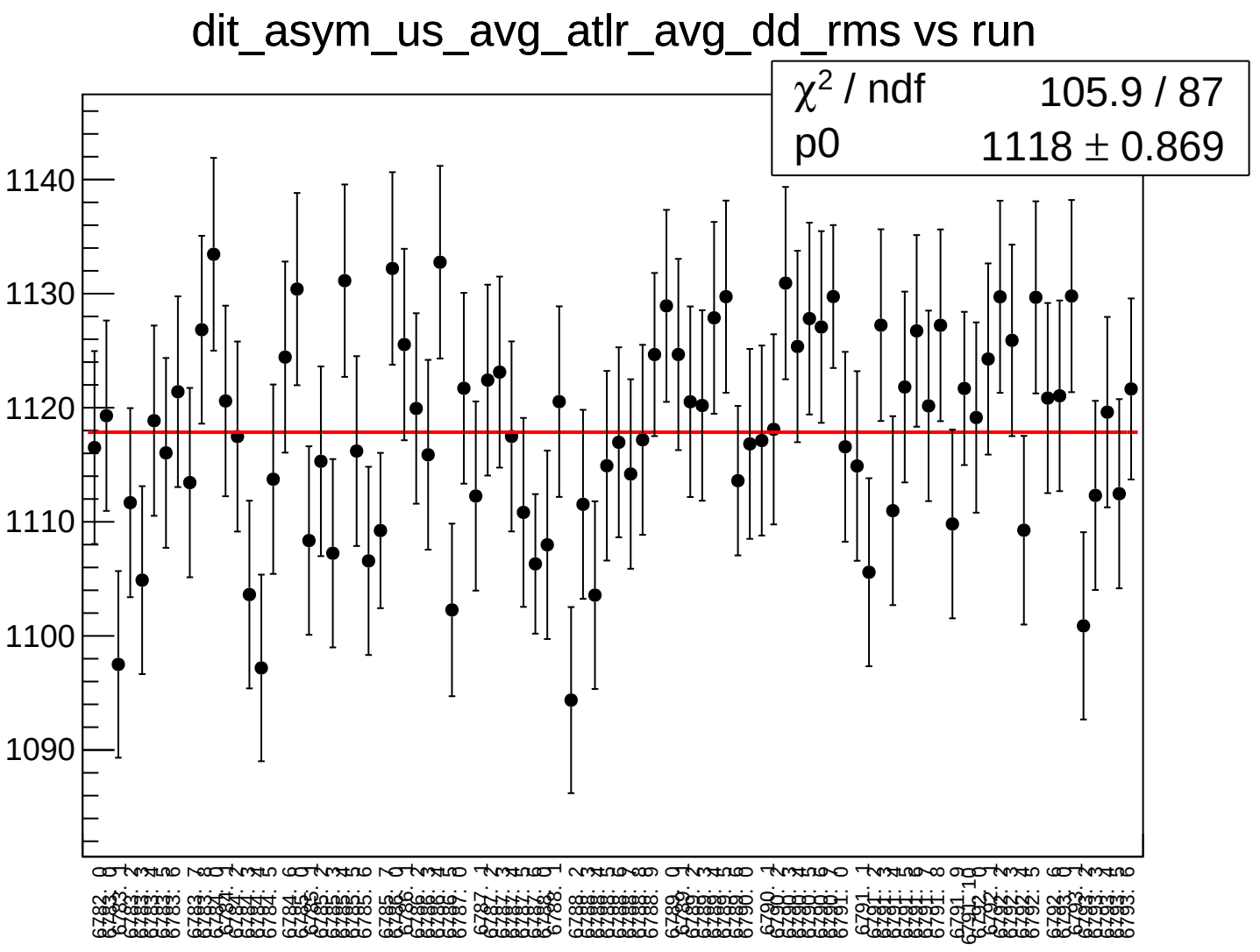

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89 / 87
p0 2014 ± 2914
100
50
0
−50
−100
pull
Entries 88
Mean −5.361
Std Dev 0
2
1
0
−1
−2

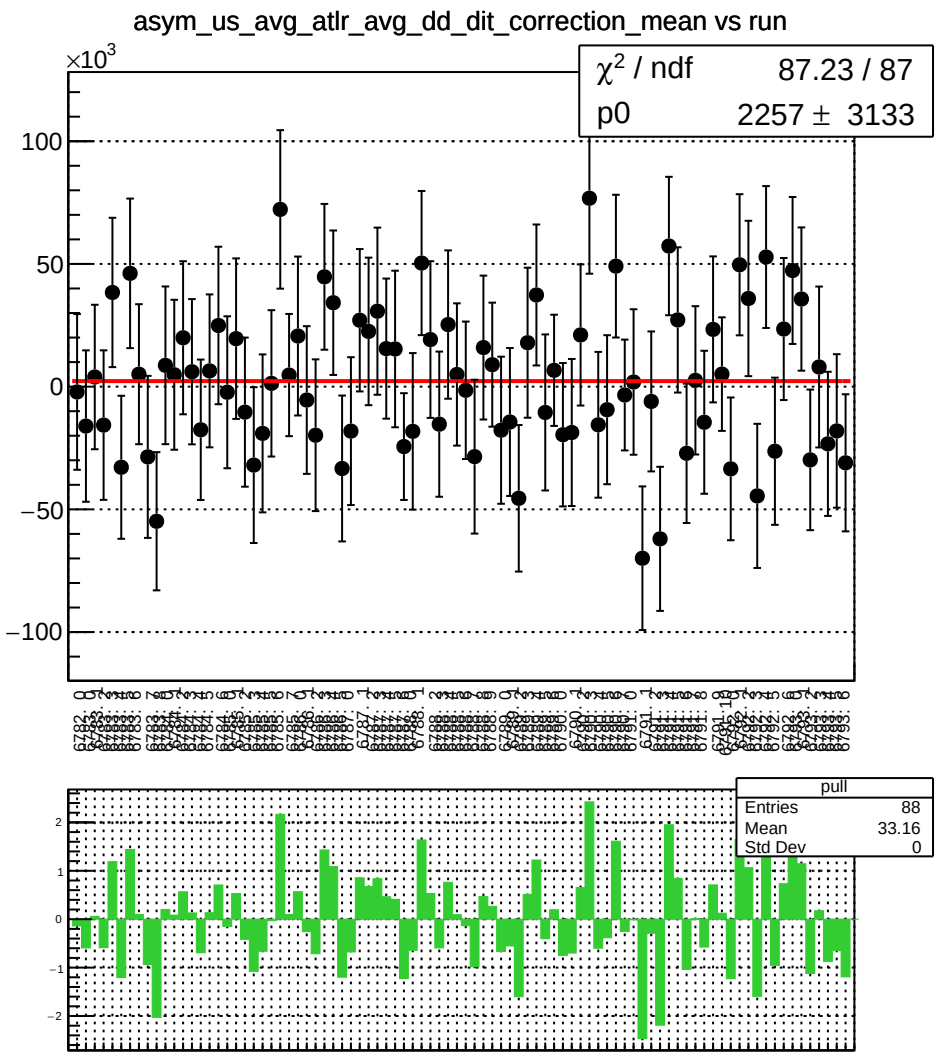

pull1D
Entries 88
Mean 0.007247
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

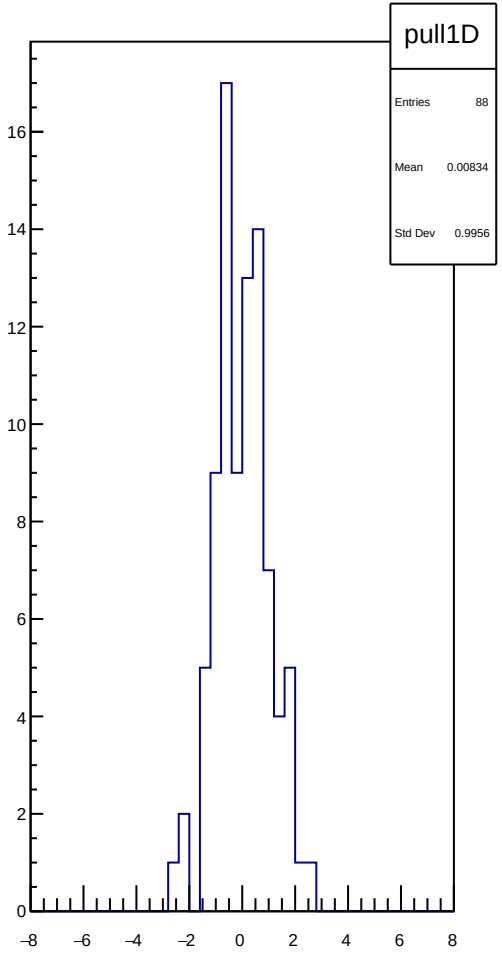

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3099 / 87
p0 2648 ± 2.061
3000
2900
2800
2700
2600
2500
2400

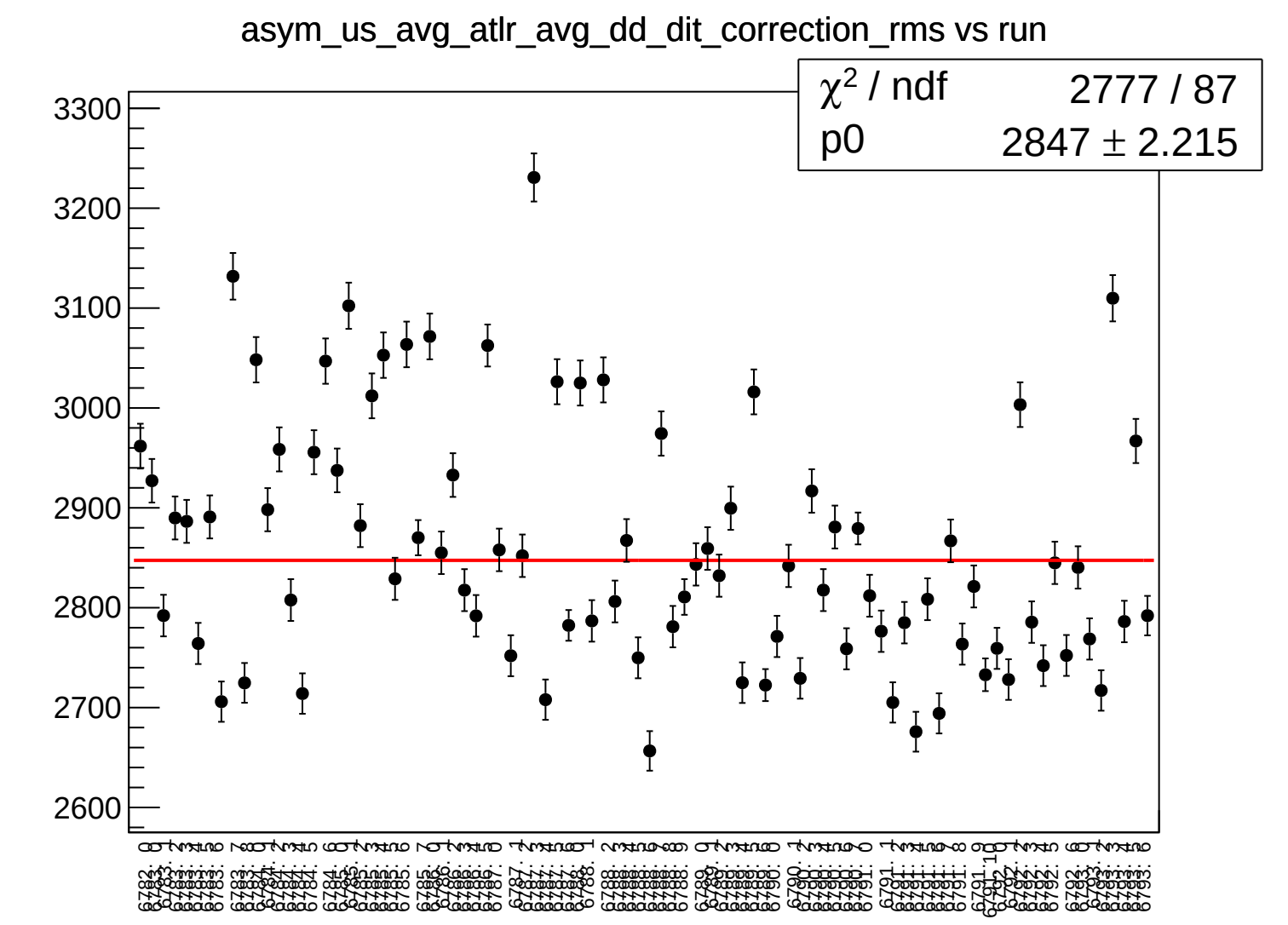

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ^2 / ndf 97.15 / 87
p0 2603 ± 1229
pull
Entries 88
Mean −264.8
Std Dev 0

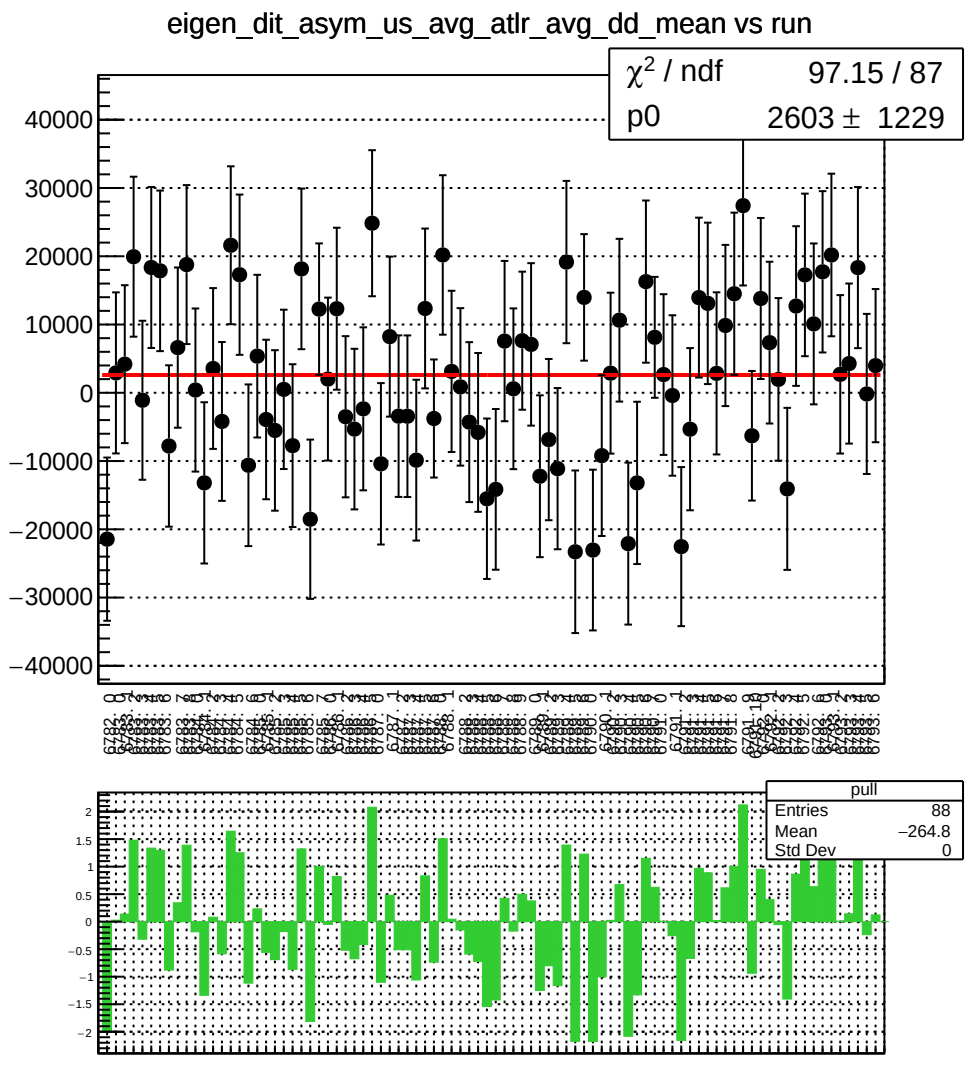

pull1D
Entries 88
Mean −0.007428
Std Dev 1.051

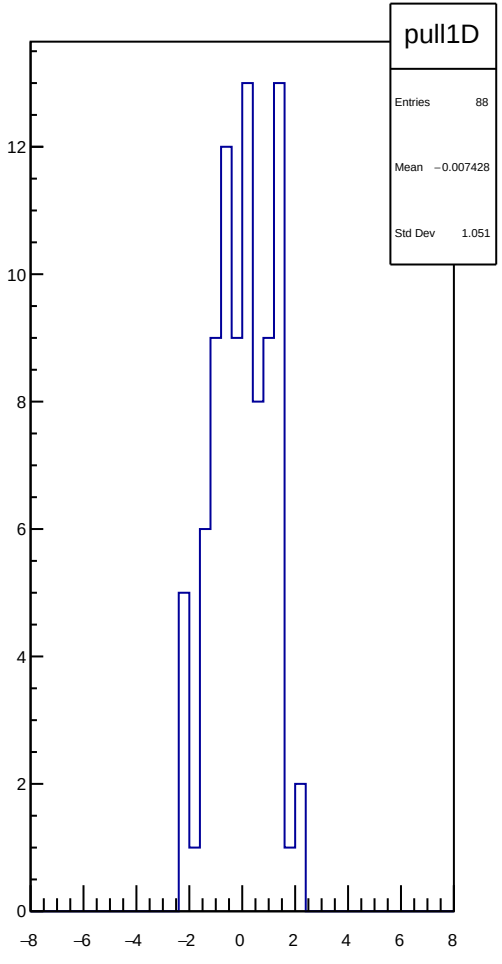

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 105.9 / 87
p0 1118 ± 0.869
1140
1130
1120
1110
1100
1090

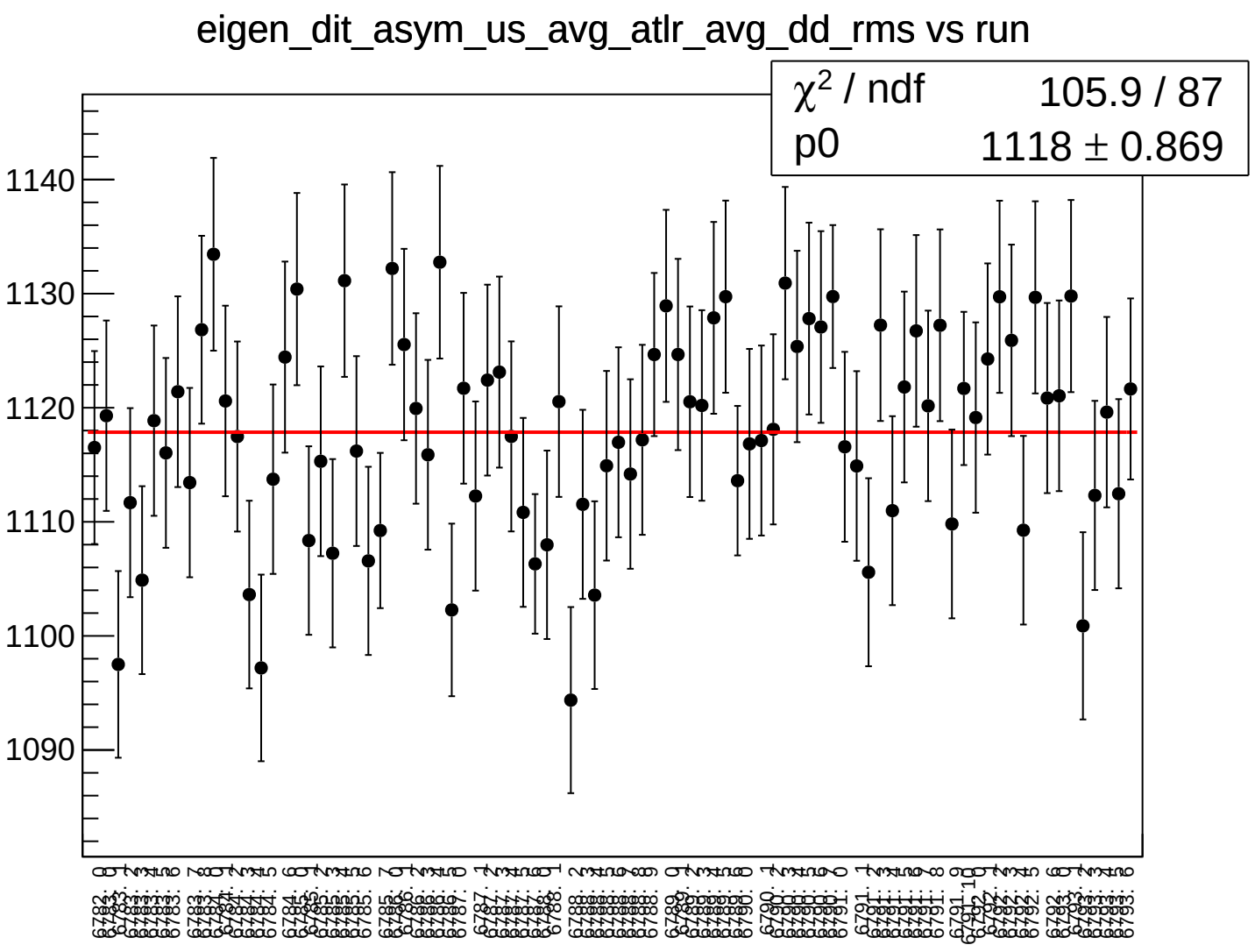

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.23 / 87
p0 2257 ± 3133
100
50
0
−50
−100
pull
Entries 88
Mean 33.16
Std Dev 0
2
1
0
−1
−2

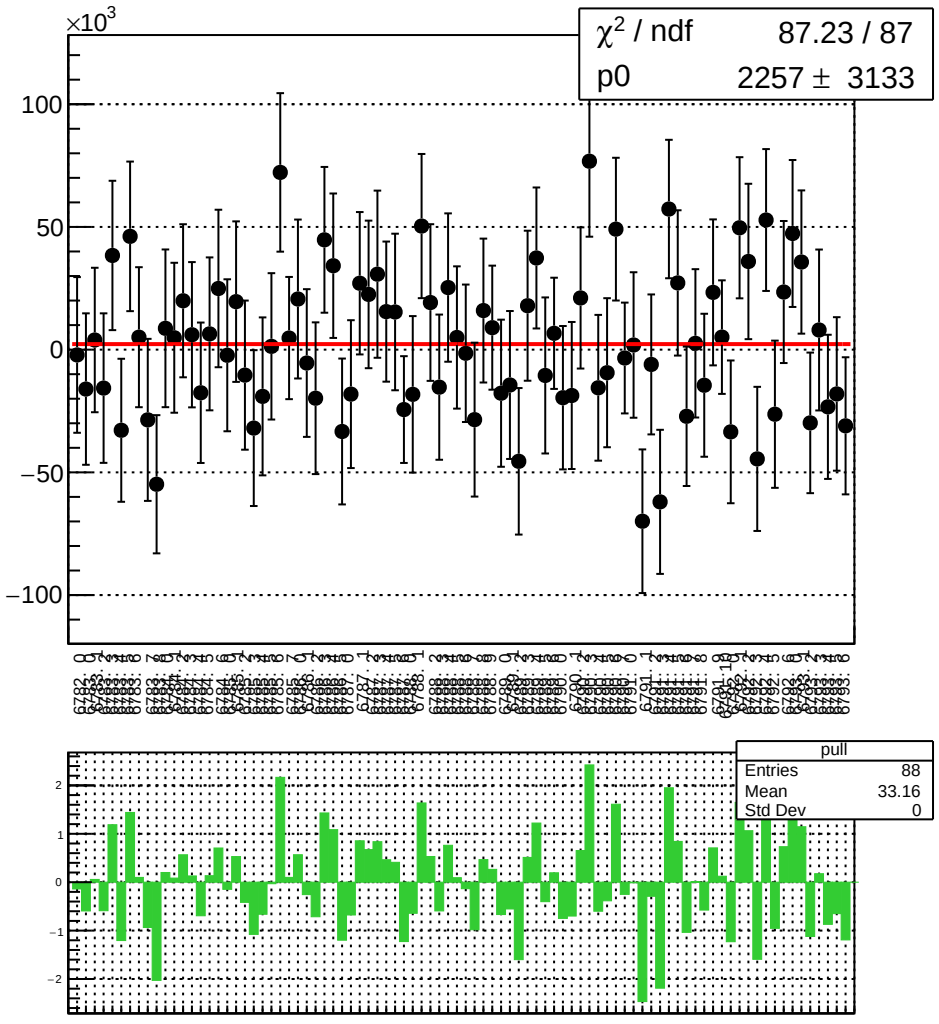

pull1D
Entries 88
Mean 0.00834
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

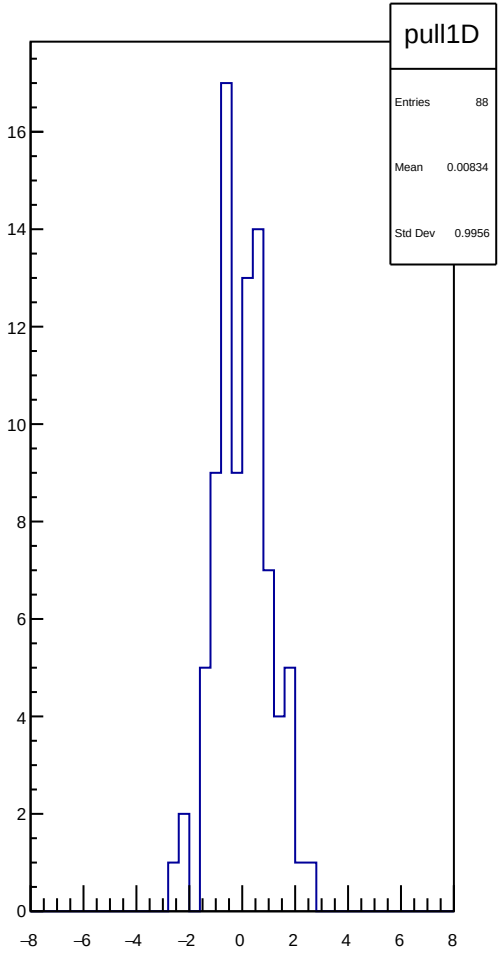

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2777 / 87
p0 2847 ± 2.215
3300
3200
3100
3000
2900
2800
2700
2600

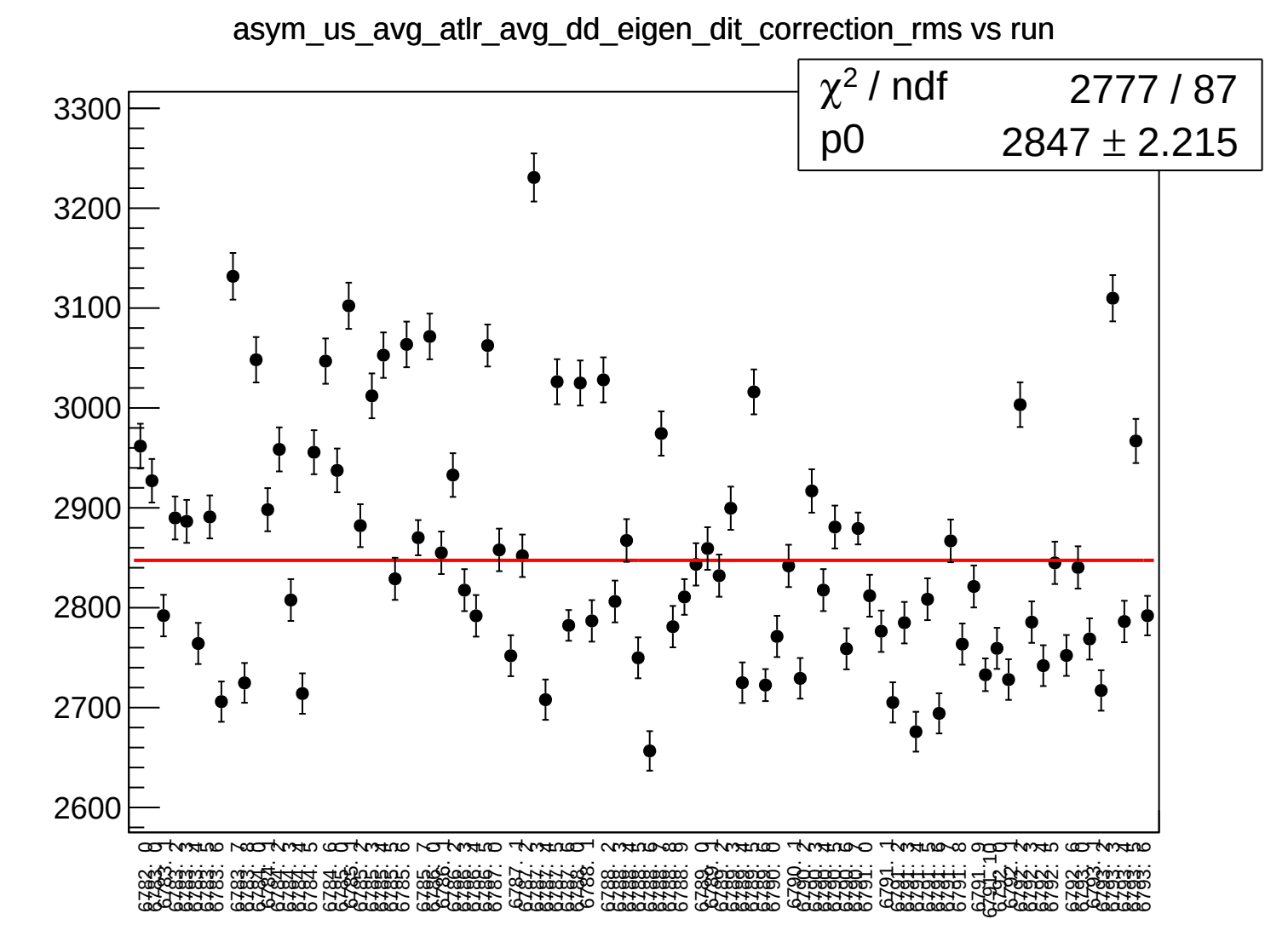

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 97.15 / 87
p0 2603 ± 1229
pull
Entries 88
Mean −264.8
Std Dev 0

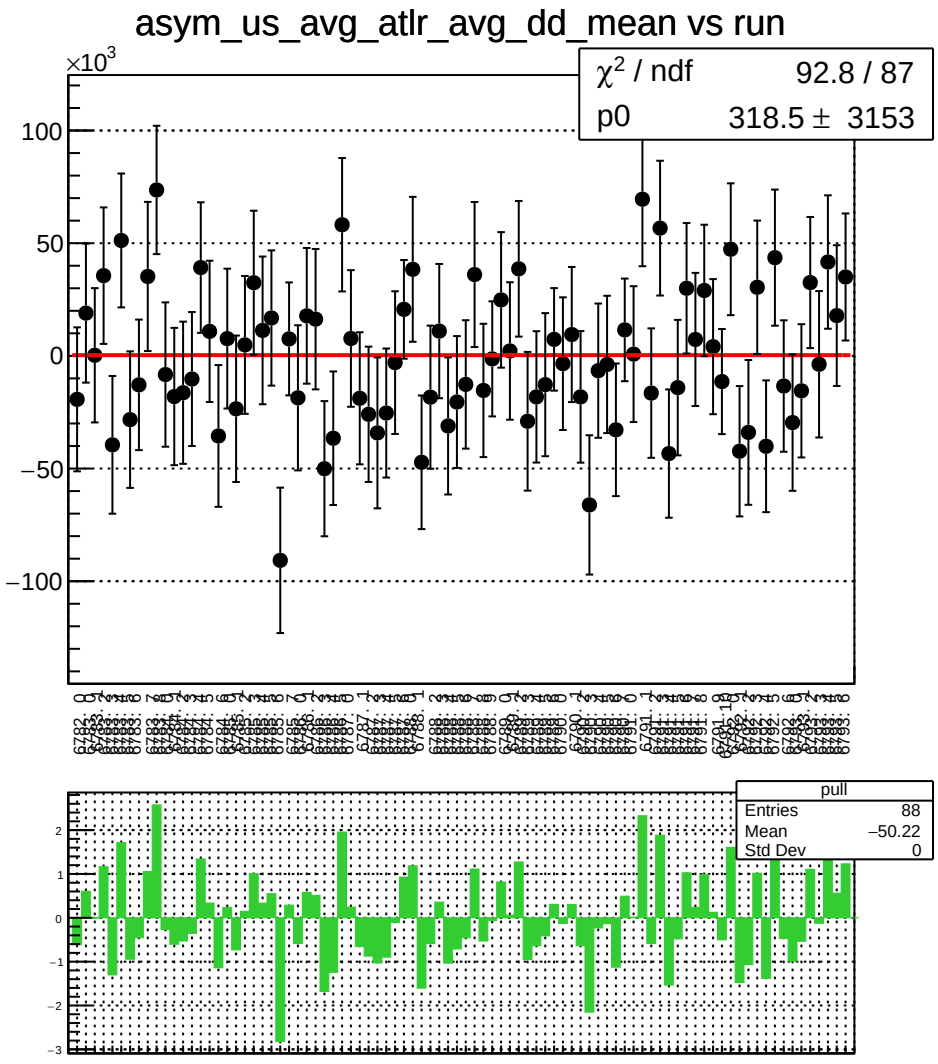

pull1D
Entries 88
Mean −0.007428
Std Dev 1.051

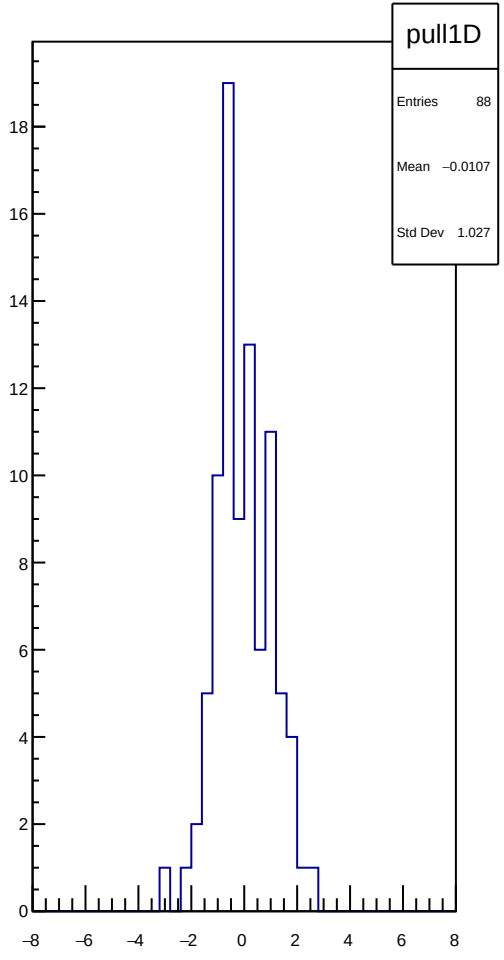

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 105.9 / 87
p0 1118 ± 0.869
1140
1130
1120
1110
1100
1090

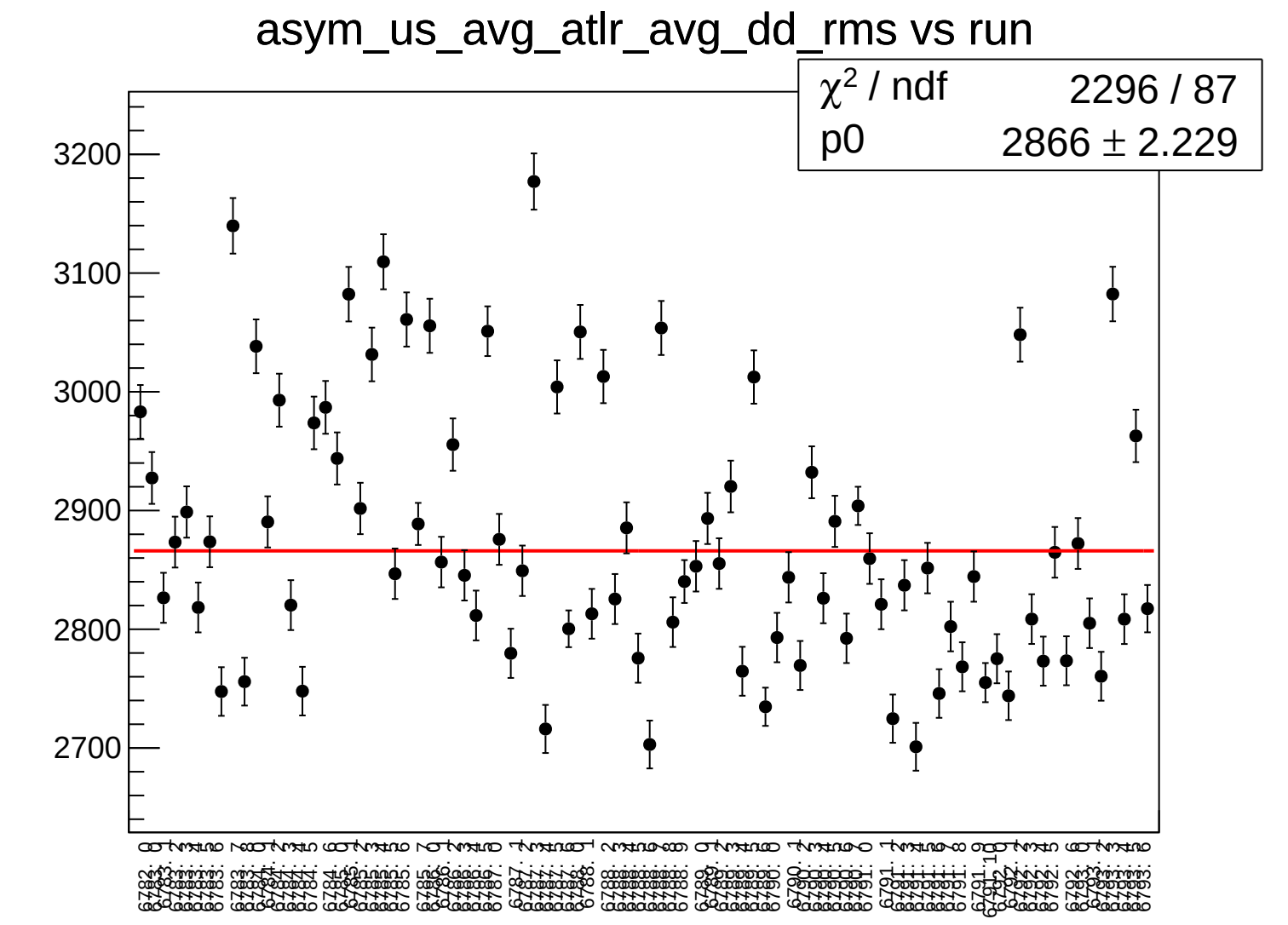

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.23 / 87
p0 2257 ± 3133
100
50
0
−50
−100
pull
Entries 88
Mean 33.16
Std Dev 0
2
1
0
−1
−2

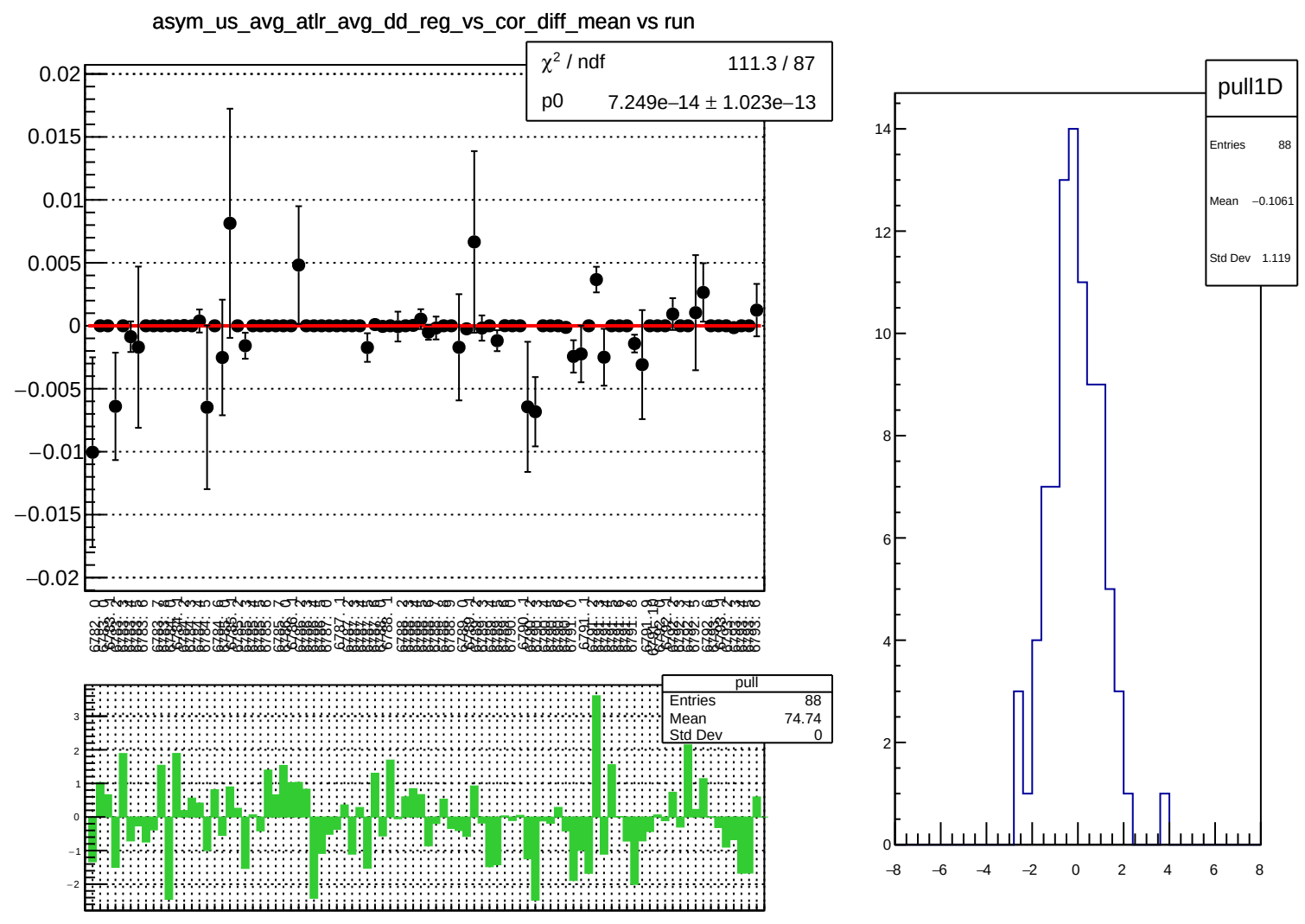

pull1D
Entries 88
Mean 0.00834
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

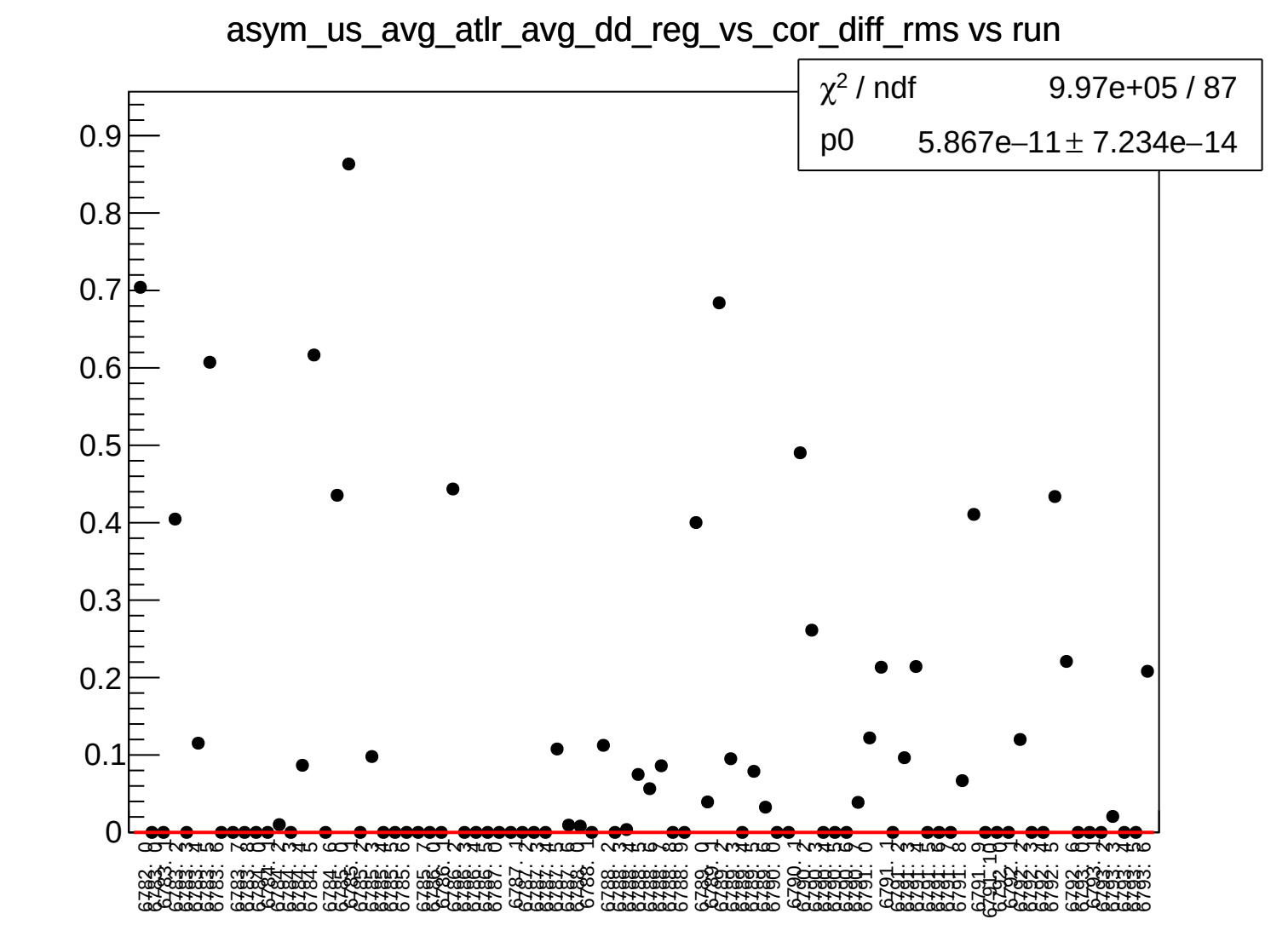

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2777 / 87
p0 2847 ± 2.215
3300
3200
3100
3000
2900
2800
2700
2600

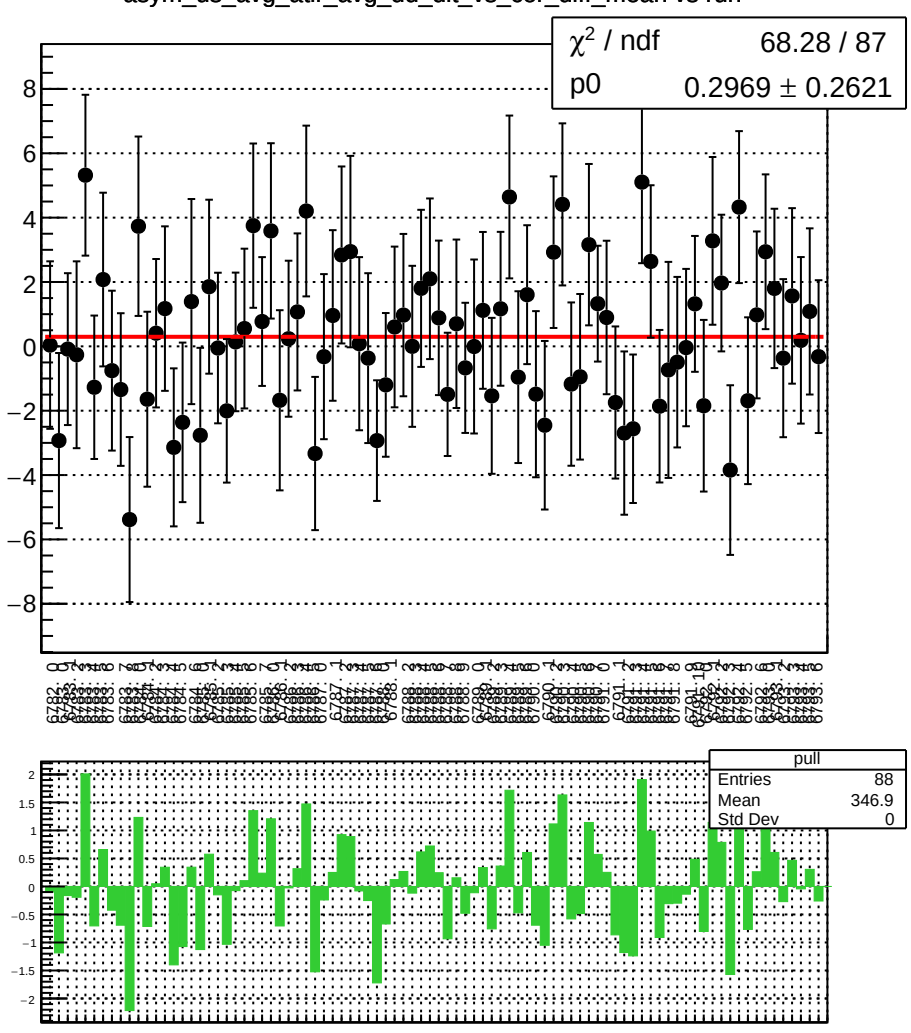

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 92.8 / 87
p0 318.5 ± 3153
100
50
0
−50
−100
pull
Entries 88
Mean −50.22
Std Dev 0
2
1
0
−1
−2
−3

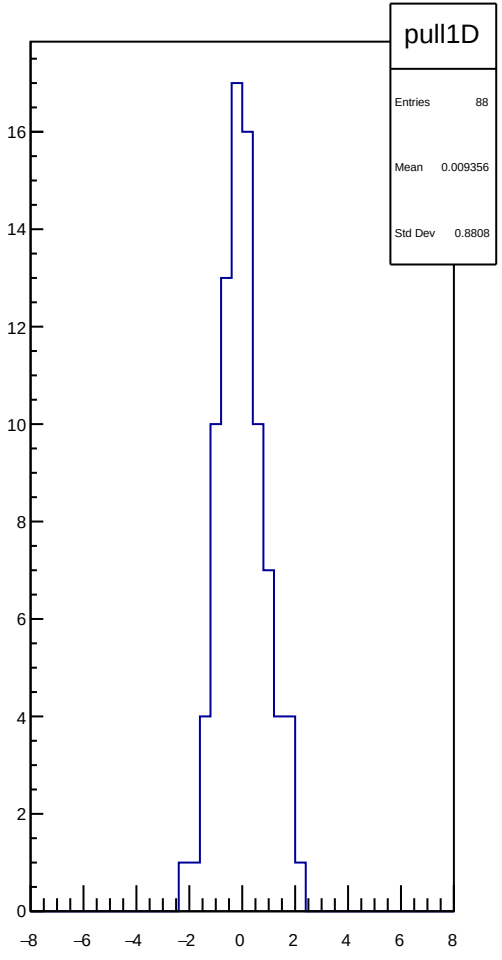

pull1D
Entries 88
Mean −0.0107
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

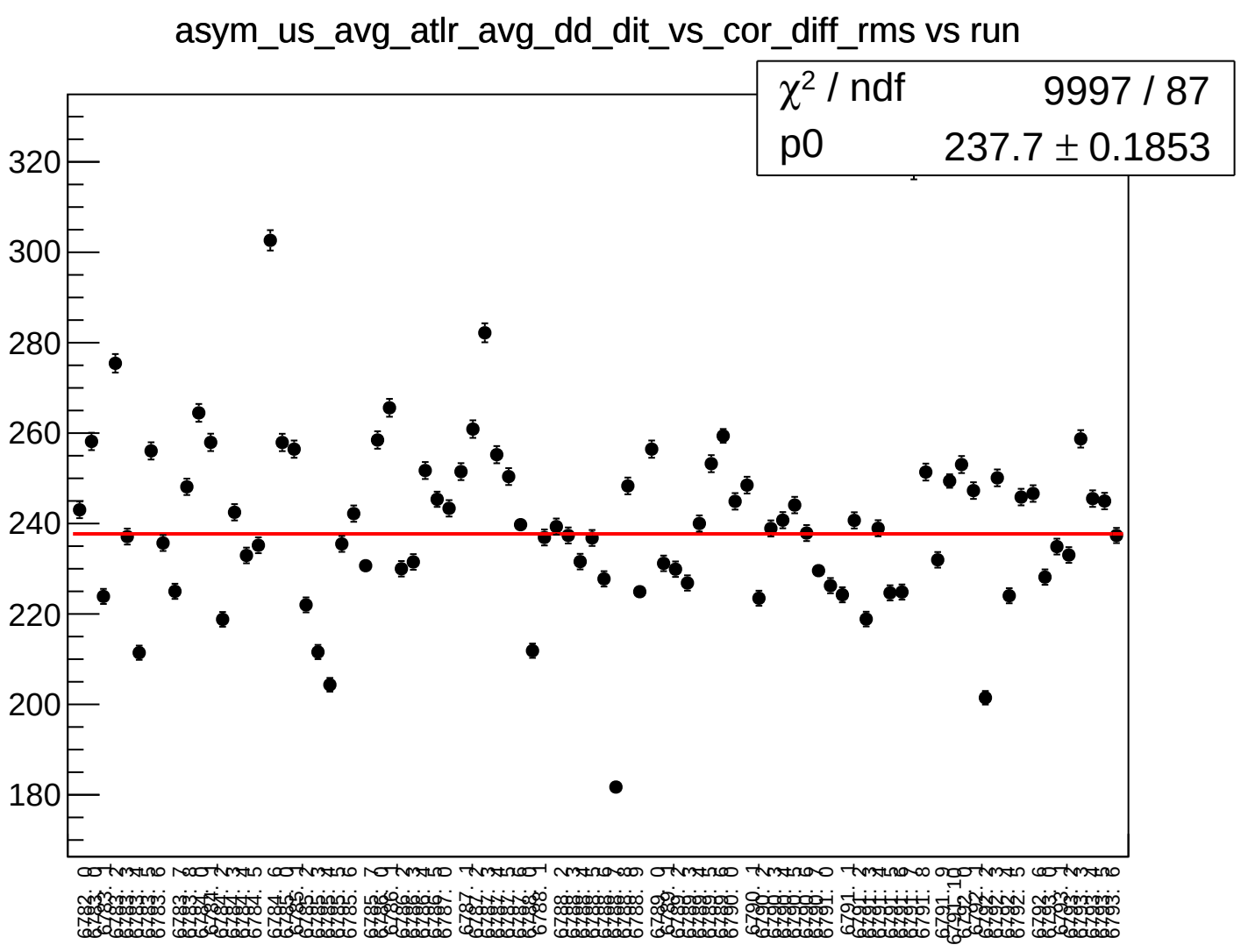

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2296 / 87
p0 2866 ± 2.229
3200
3100
3000
2900
2800
2700

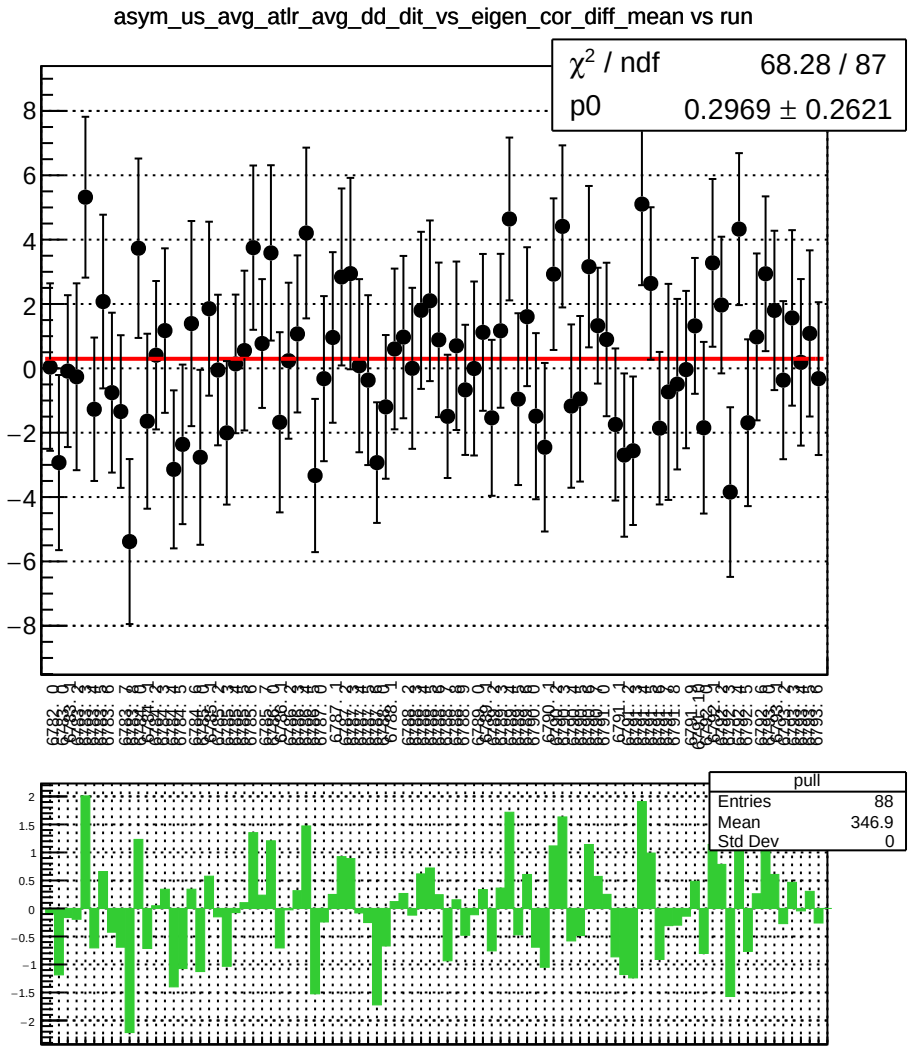

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 87
p0 7.249e−14 ± 1.023e−13
pull
Entries 88
Mean 74.74
Std Dev 0
pull1D
Entries 88
Mean −0.1061
Std Dev 1.119

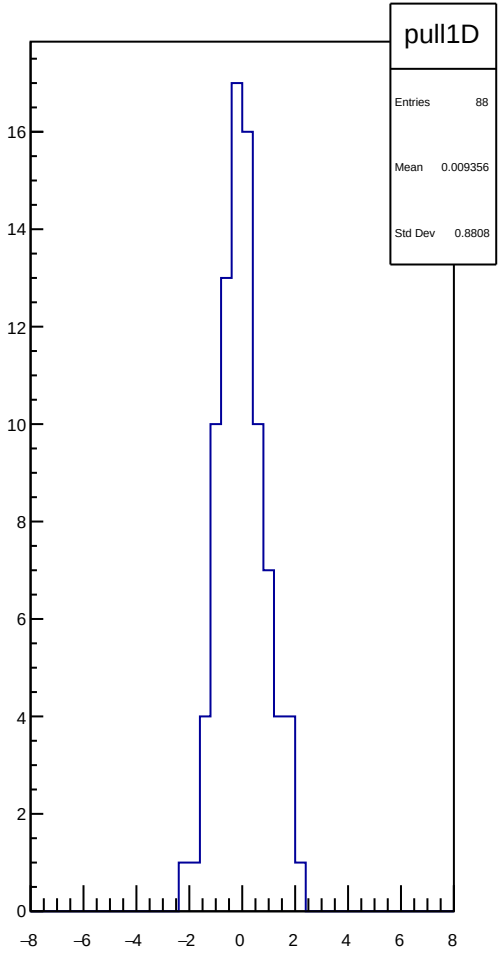

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.97e+05 / 87
p0 5.867e−11 ± 7.234e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

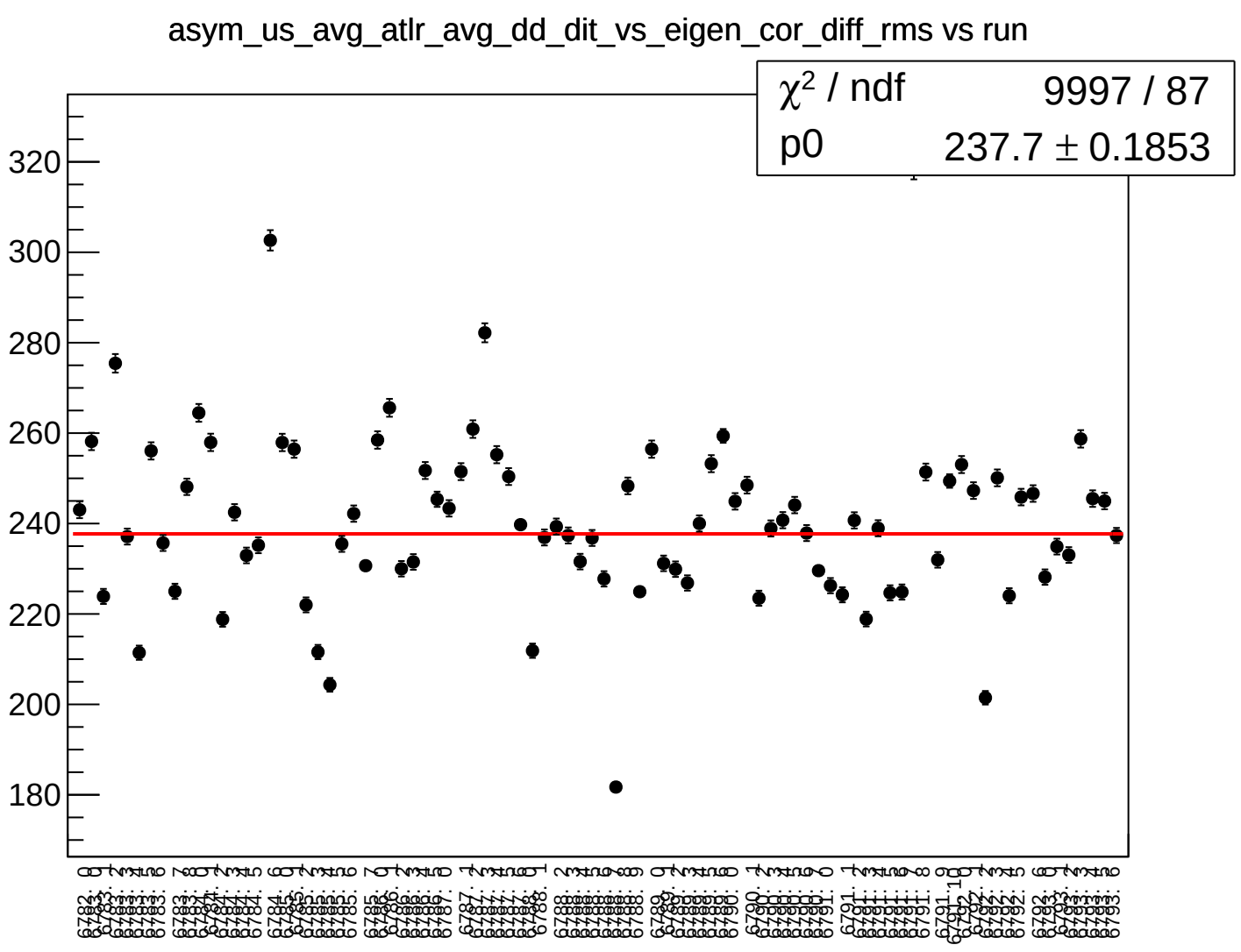

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.28 / 87
p0 0.2969 ± 0.2621
pull
Entries 88
Mean 346.9
Std Dev 0

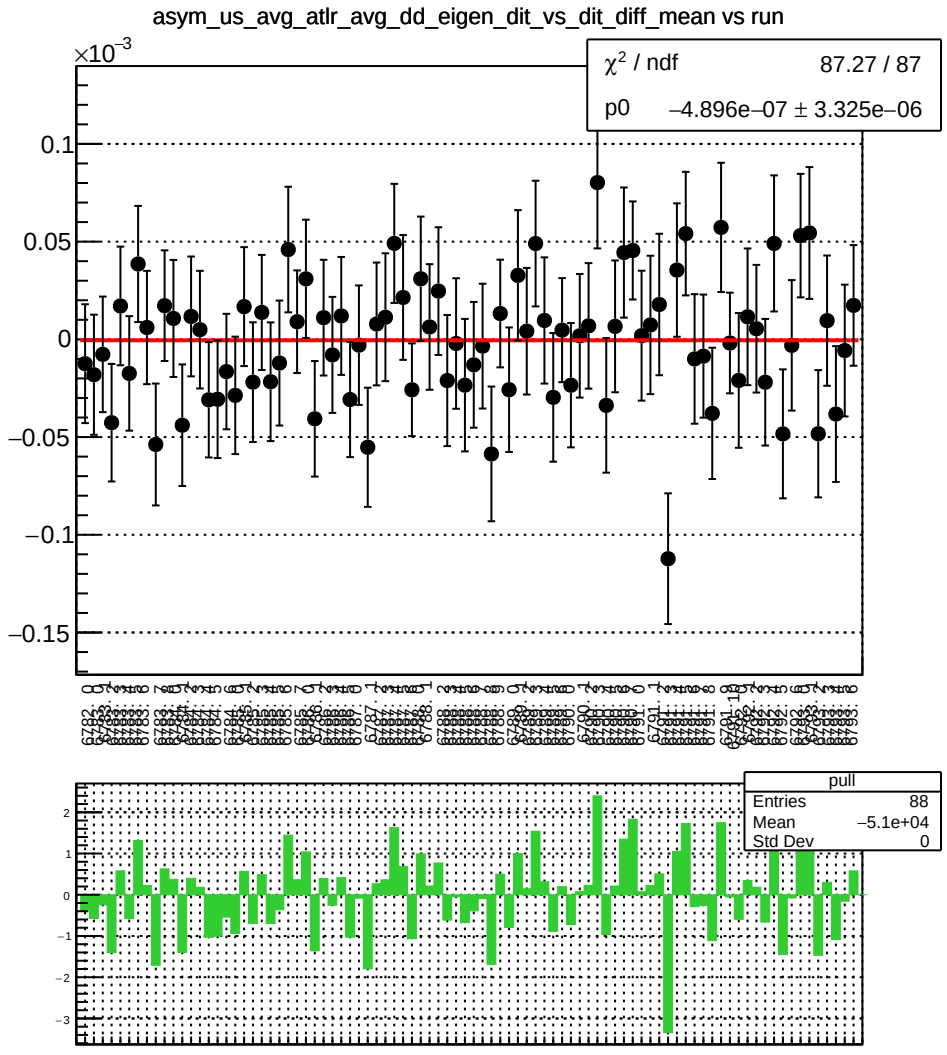

pull1D
Entries 88
Mean 0.009356
Std Dev 0.8808

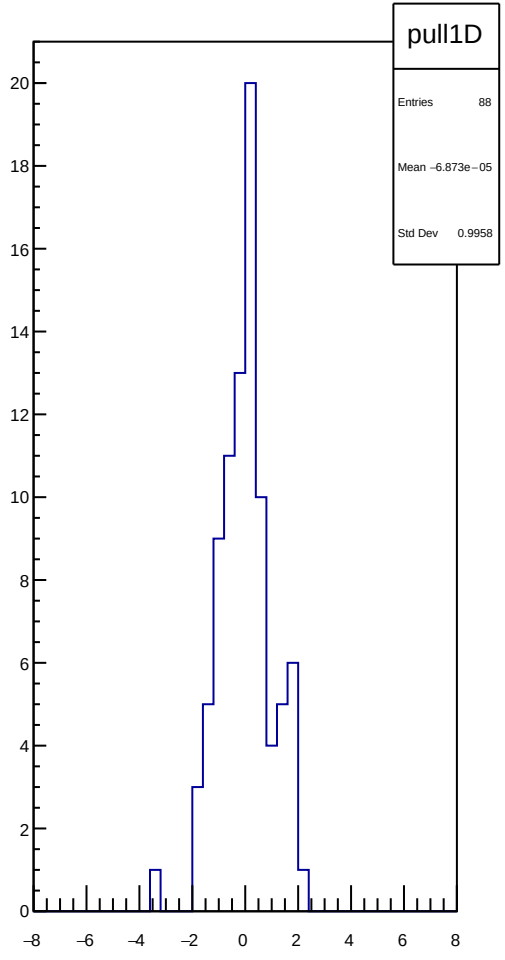

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9997 / 87
p0 237.7 ± 0.1853
320
300
280
260
240
220
200
180

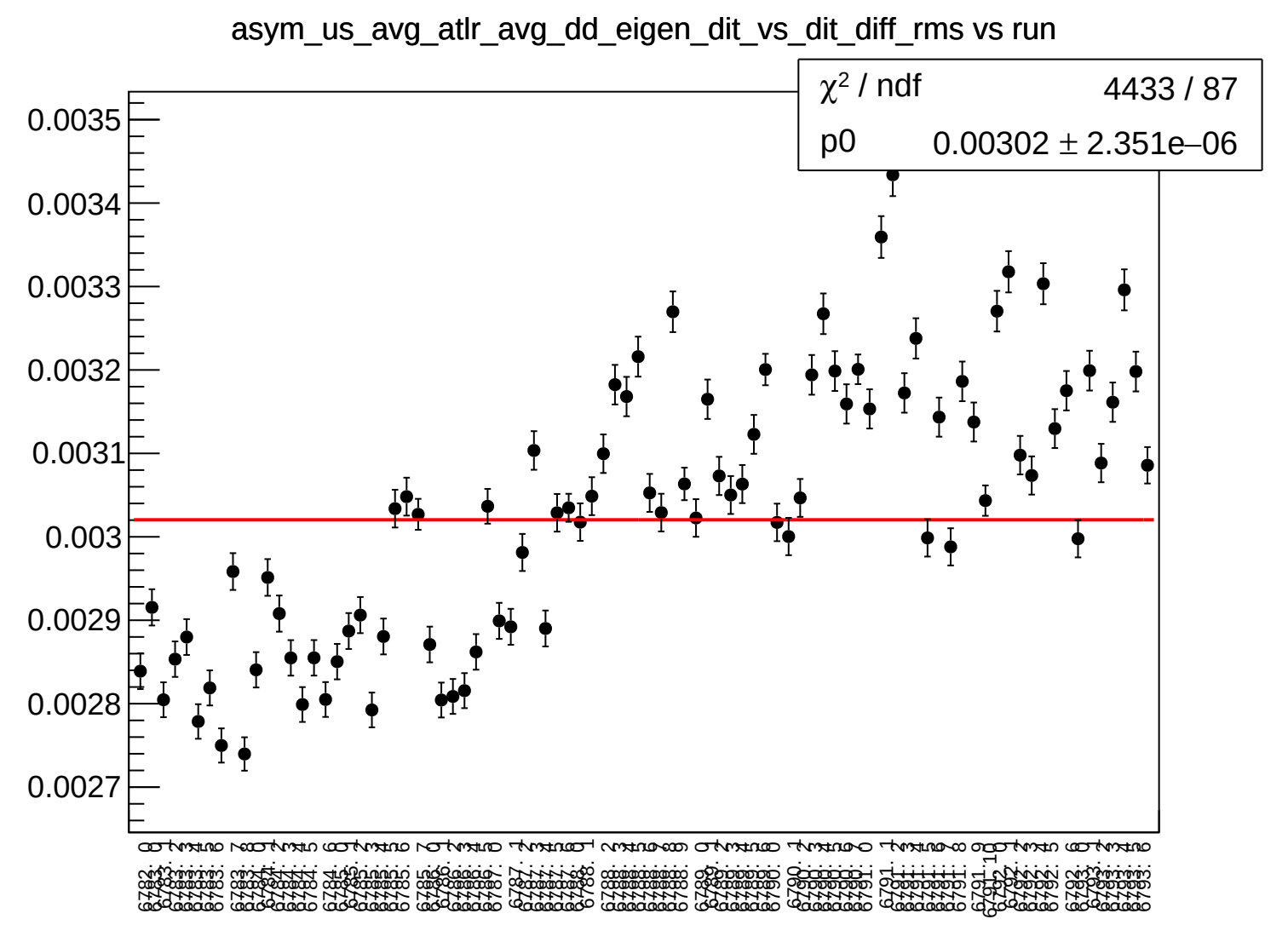

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.28 / 87
p0 0.2969 ± 0.2621
pull
Entries 88
Mean 346.9
Std Dev 0

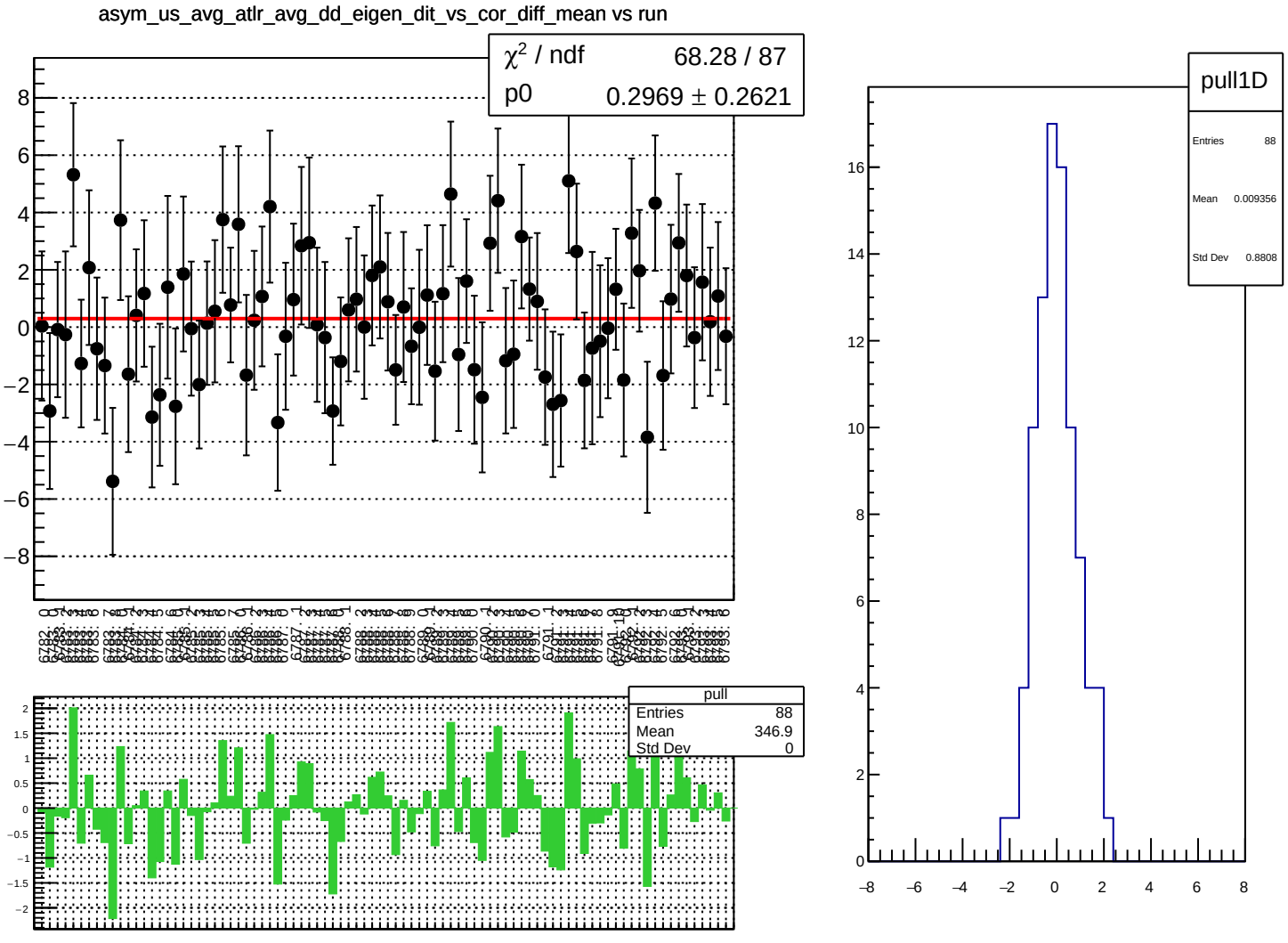

pull1D
Entries 88
Mean 0.009356
Std Dev 0.8808

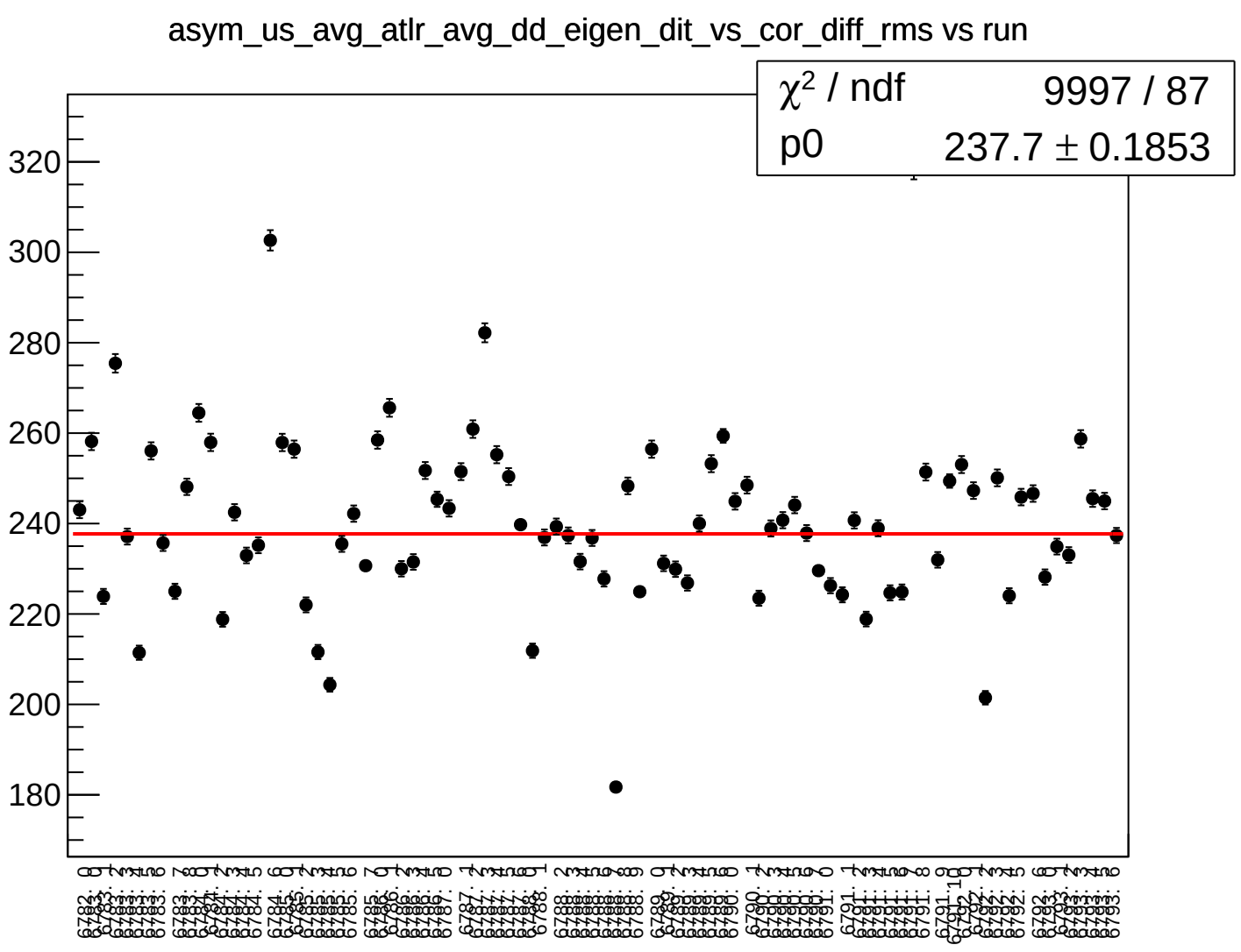

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9997 / 87
p0 237.7 ± 0.1853
320
300
280
260
240
220
200
180

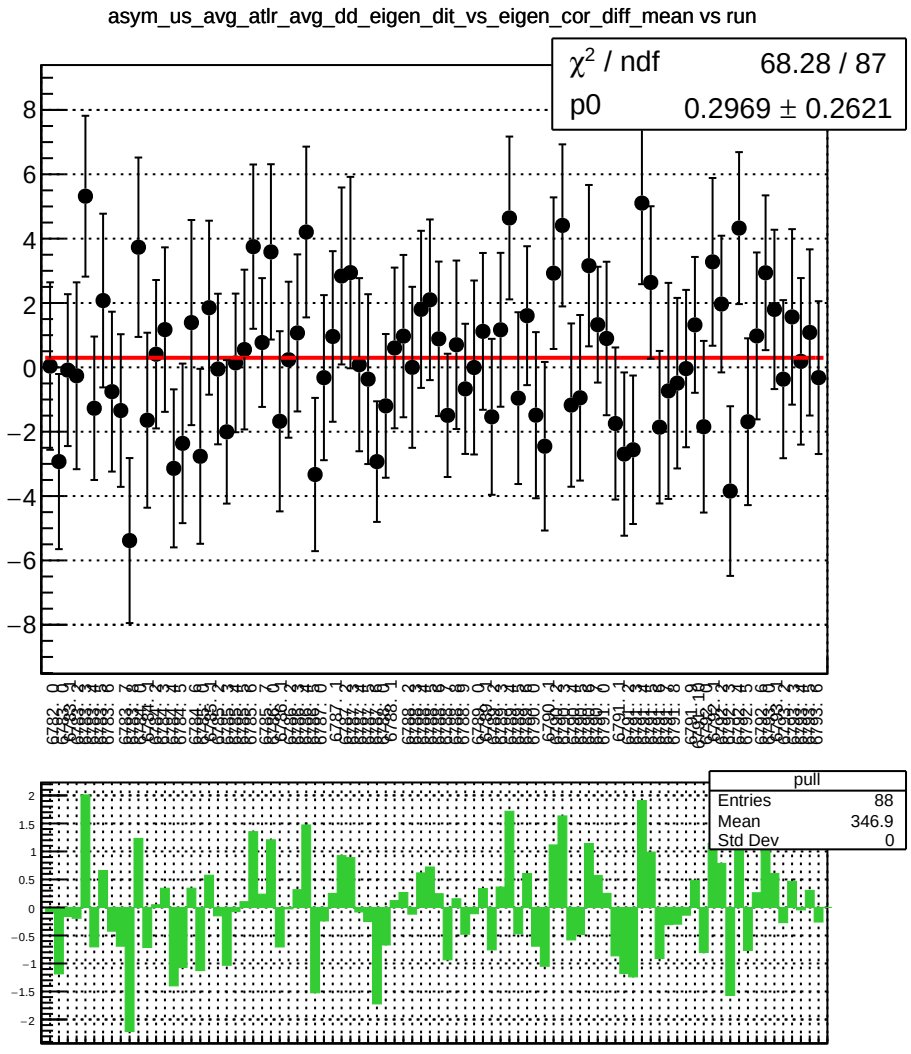

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.27 / 87
p0 −4.896e−07 ± 3.325e−06
pull
Entries 88
Mean −5.1e+04
Std Dev 0

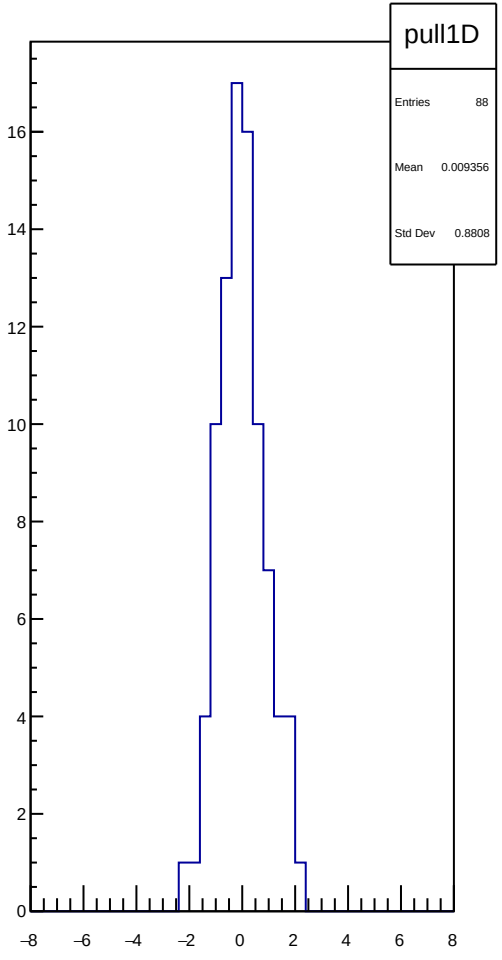

pull1D
Entries 88
Mean −6.873e−05
Std Dev 0.9958

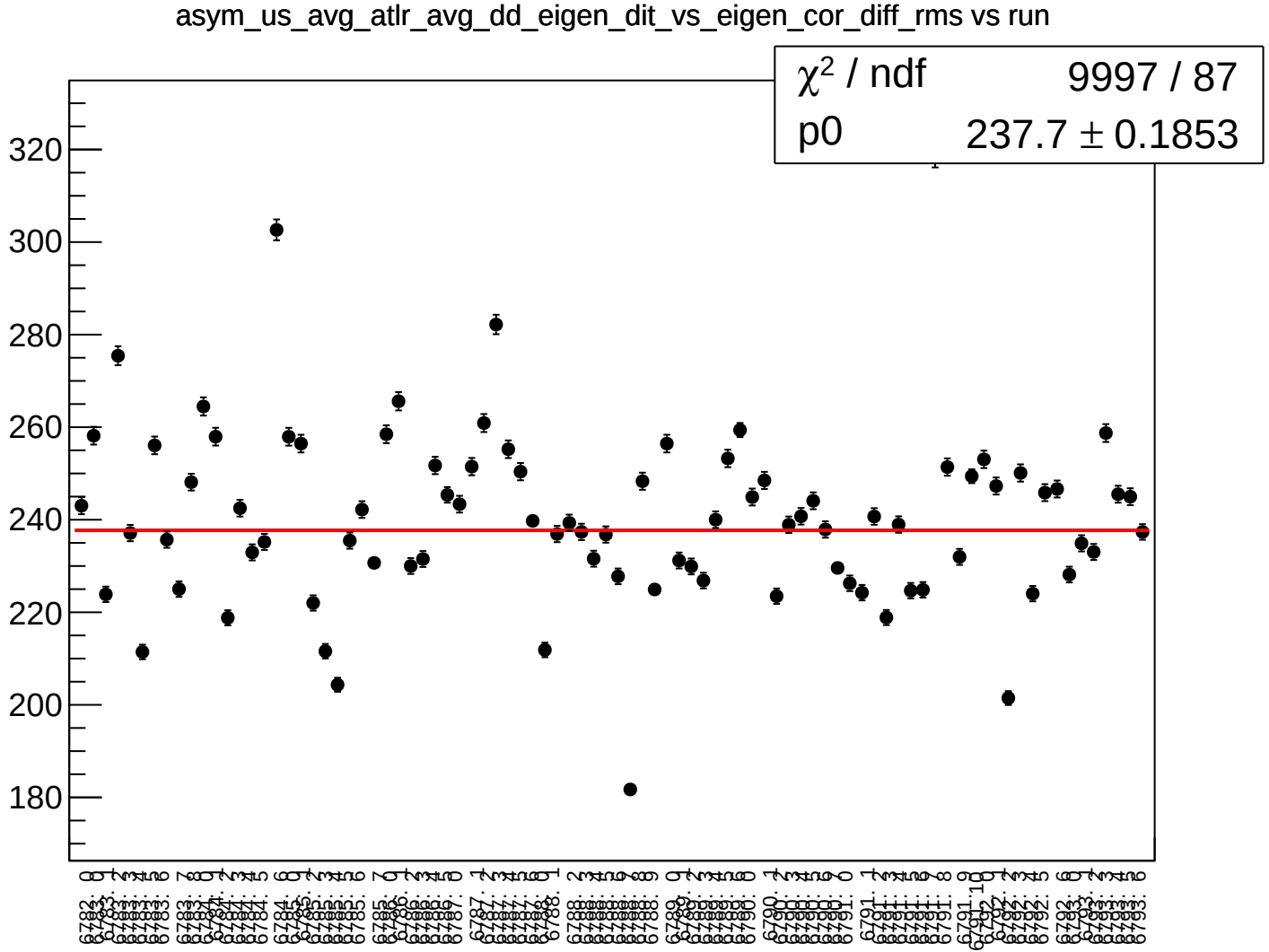

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4433 / 87
p0 0.00302 ± 2.351e–06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

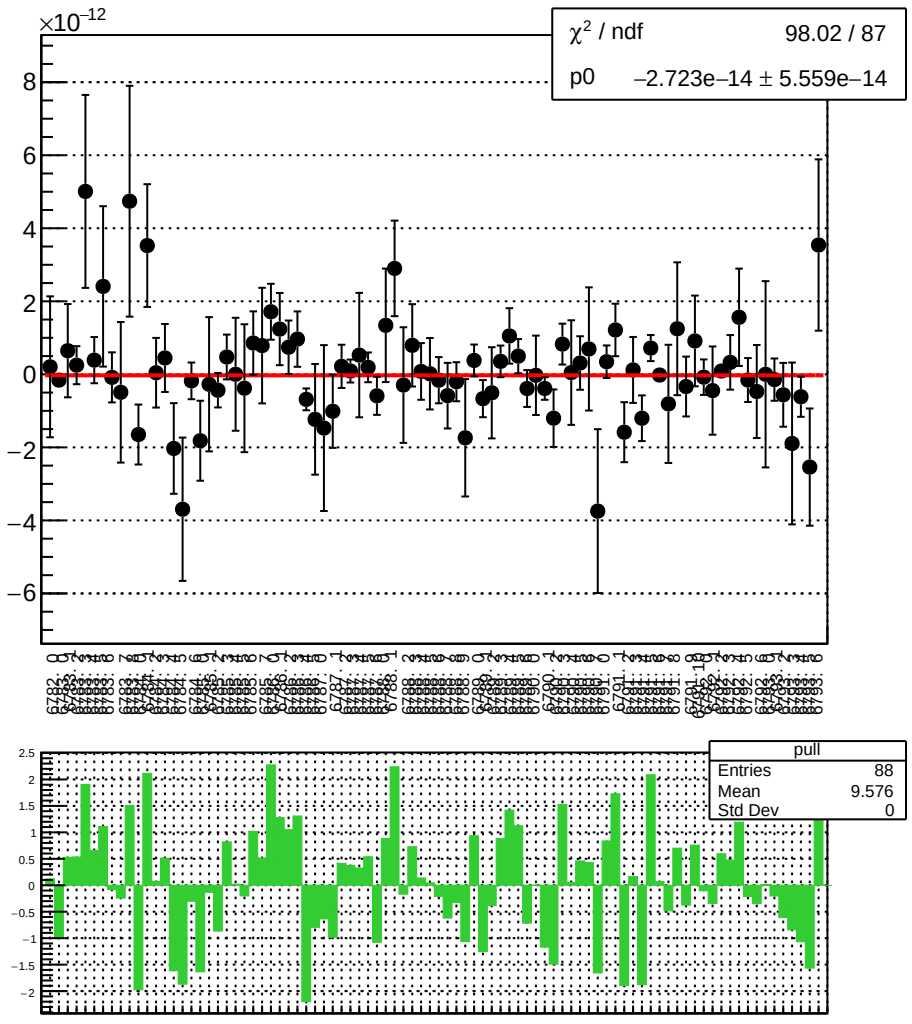

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.28 / 87
p0 0.2969 ± 0.2621
pull
Entries 88
Mean 346.9
Std Dev 0
pull1D
Entries 88
Mean 0.009356
Std Dev 0.8808

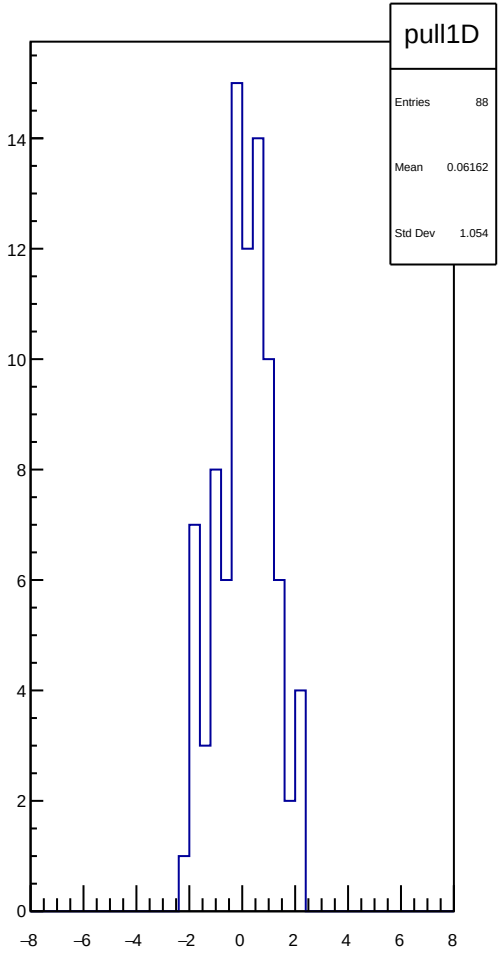

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9997 / 87
p0 237.7 ± 0.1853
320
300
280
260
240
220
200
180

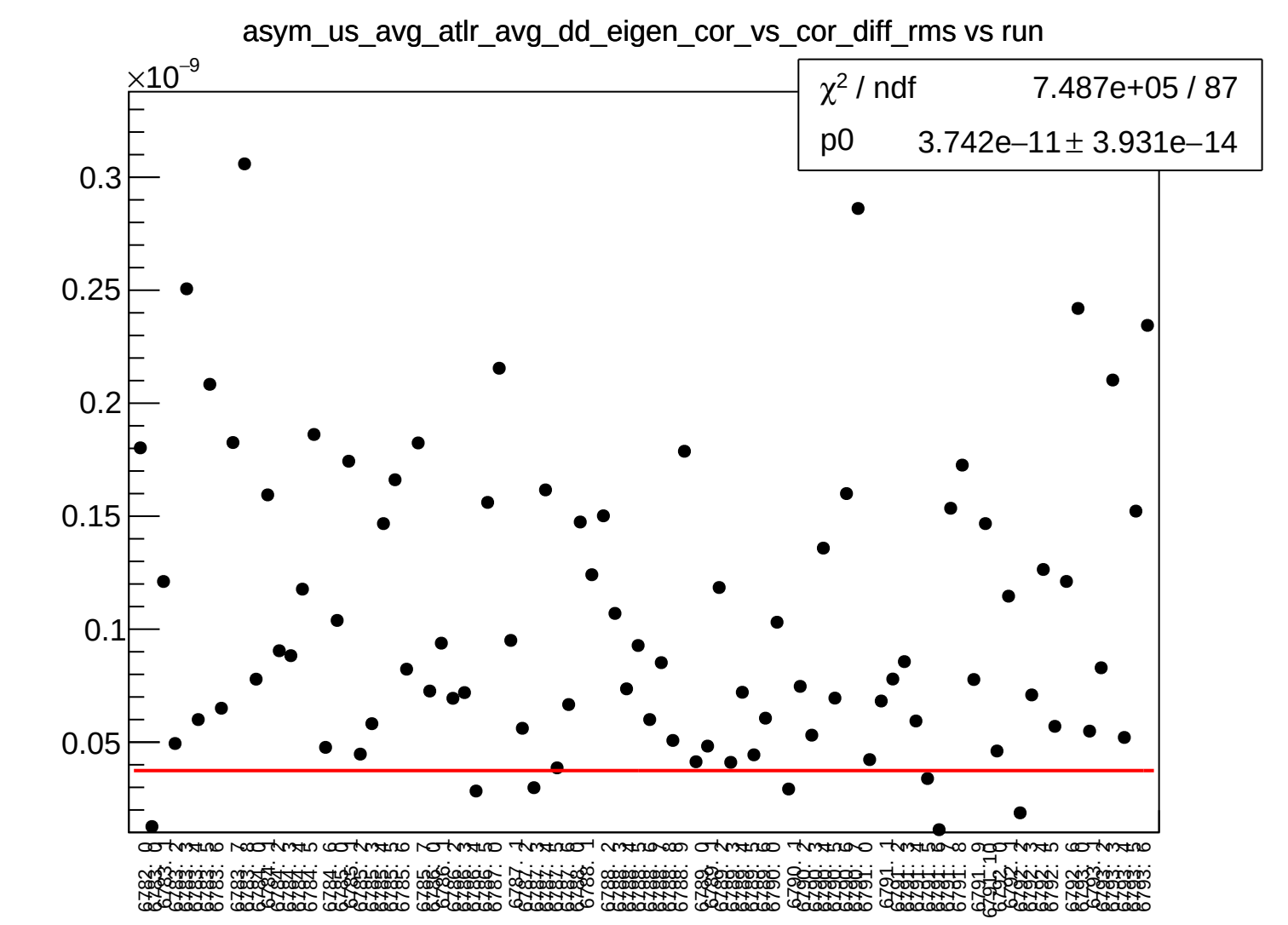

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.28 / 87
p0 0.2969 ± 0.2621
pull
Entries 88
Mean 346.9
Std Dev 0

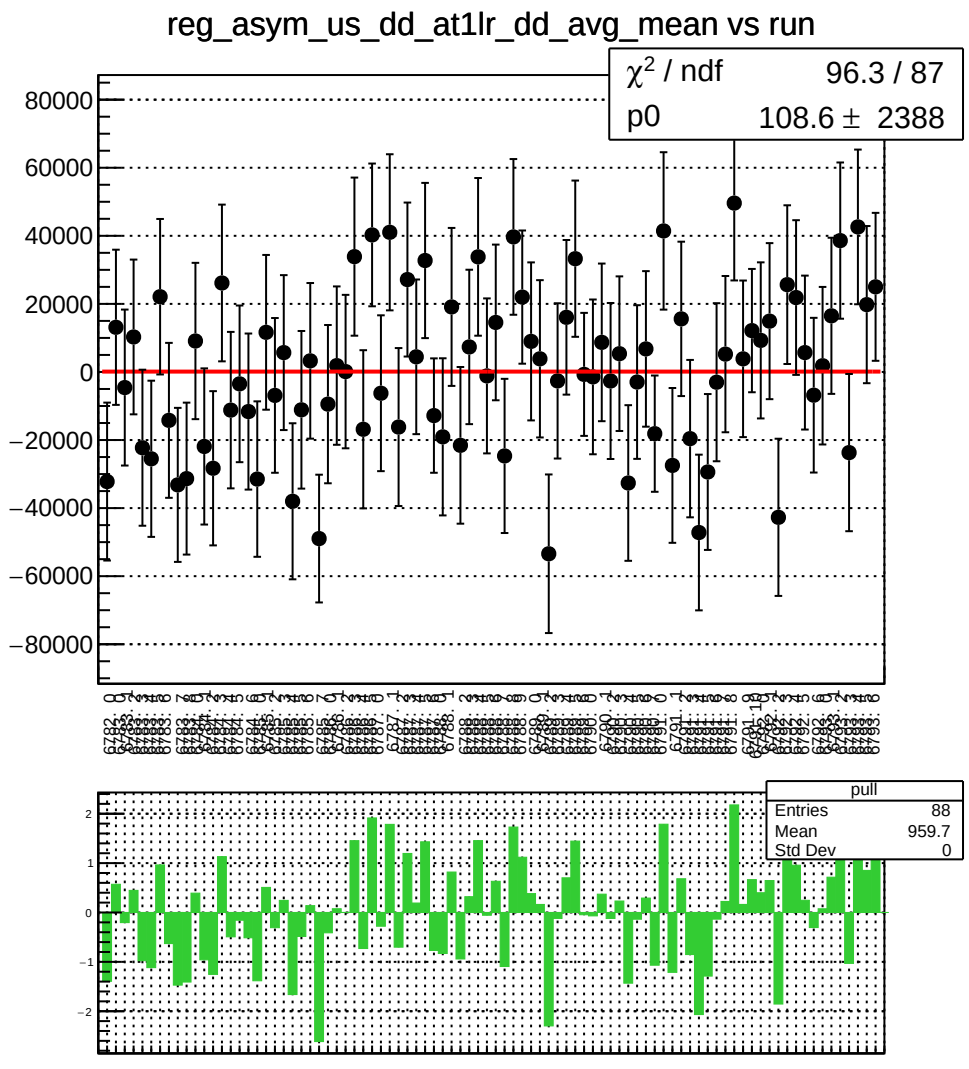

pull1D
Entries 88
Mean 0.009356
Std Dev 0.8808

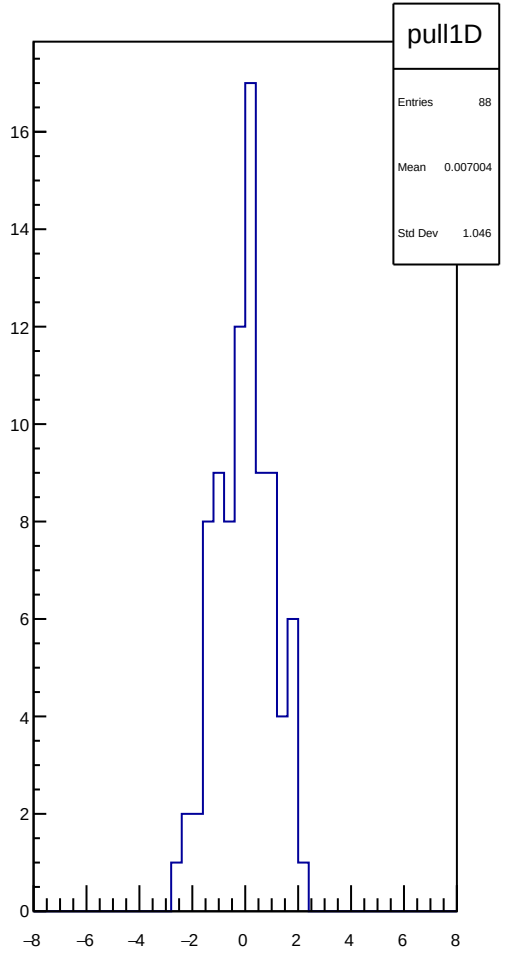

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9997 / 87
p0 237.7 ± 0.1853
320
300
280
260
240
220
200
180

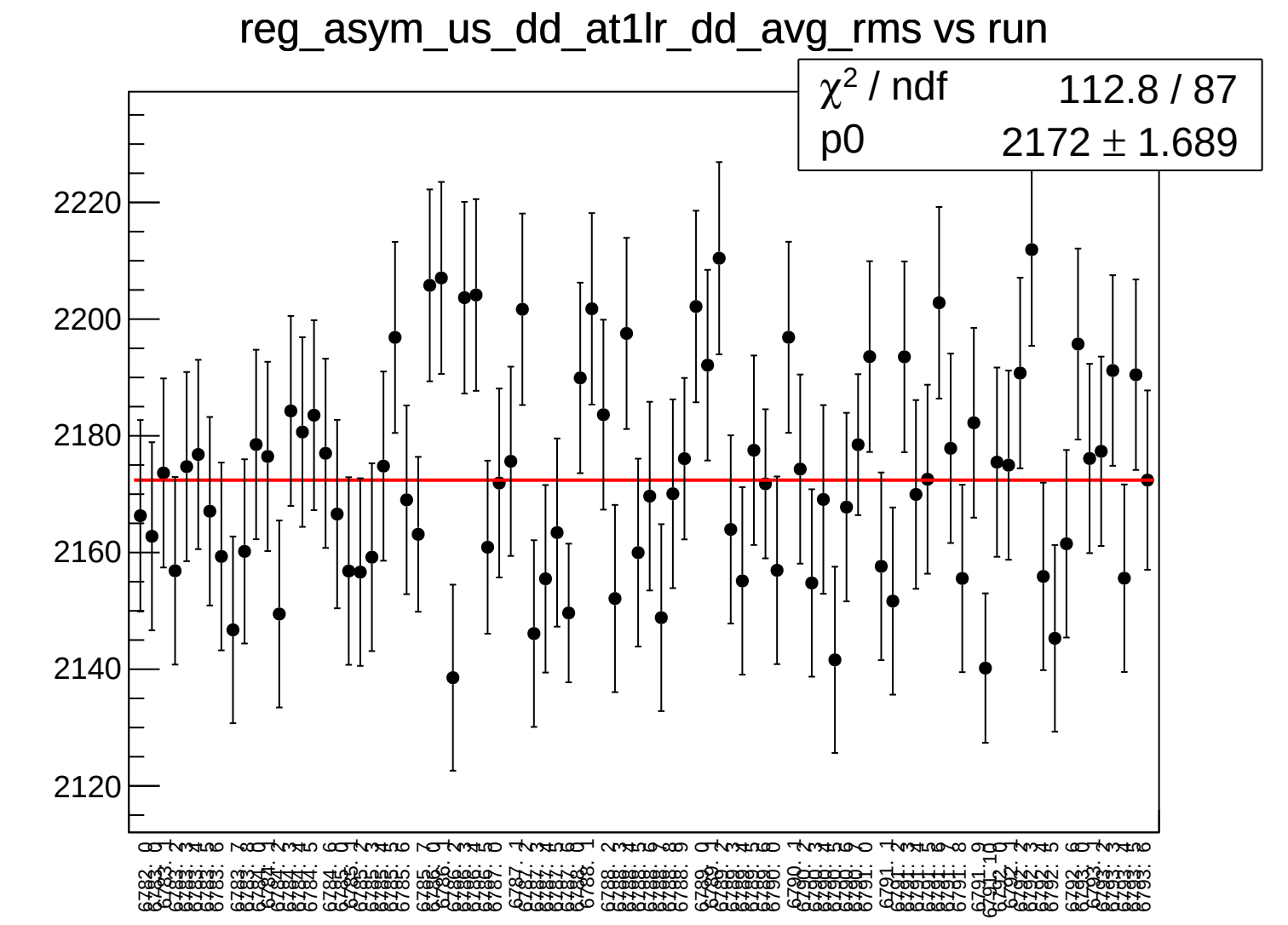

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.02 / 87
p0 −2.723e−14 ± 5.559e−14
pull
Entries 88
Mean 9.576
Std Dev 0

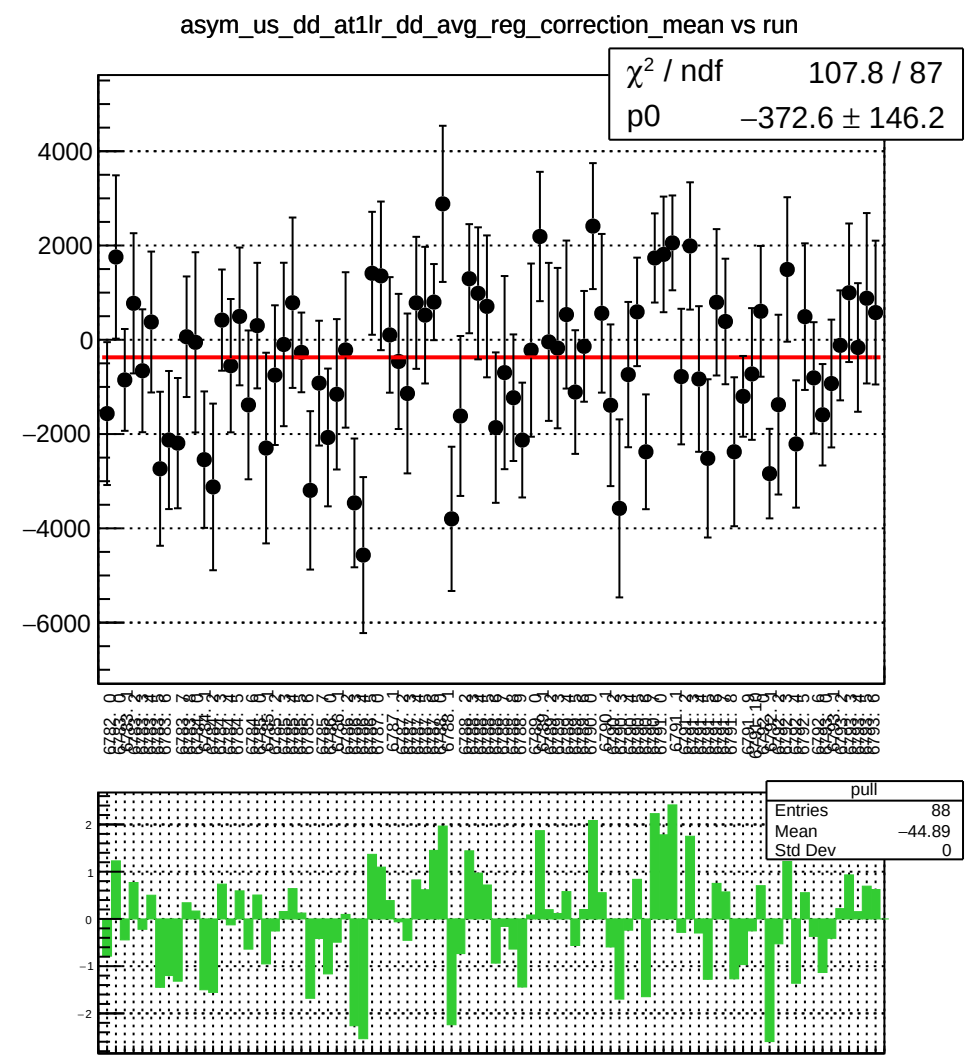

pull1D
Entries 88
Mean 0.06162
Std Dev 1.054

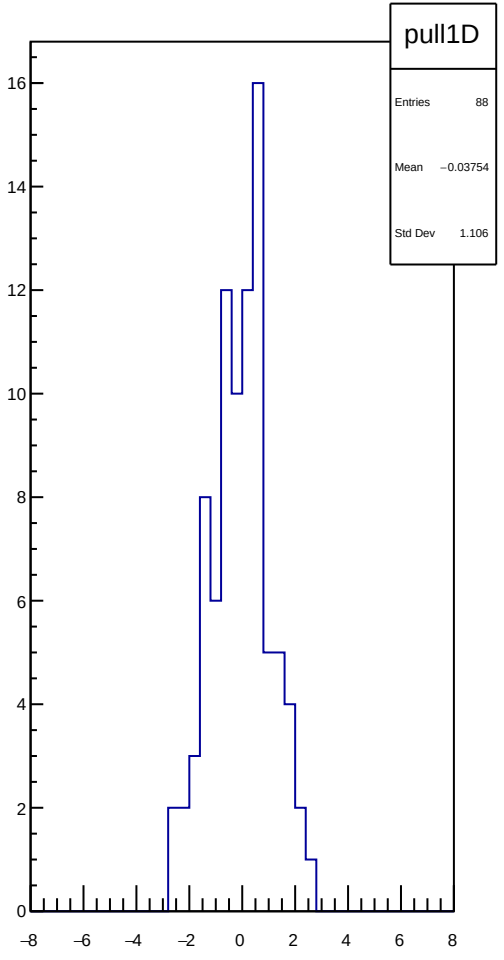

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.487e+05 / 87
p0 3.742e−11 ± 3.931e−14
0.3
0.25
0.2
0.15
0.1
0.05

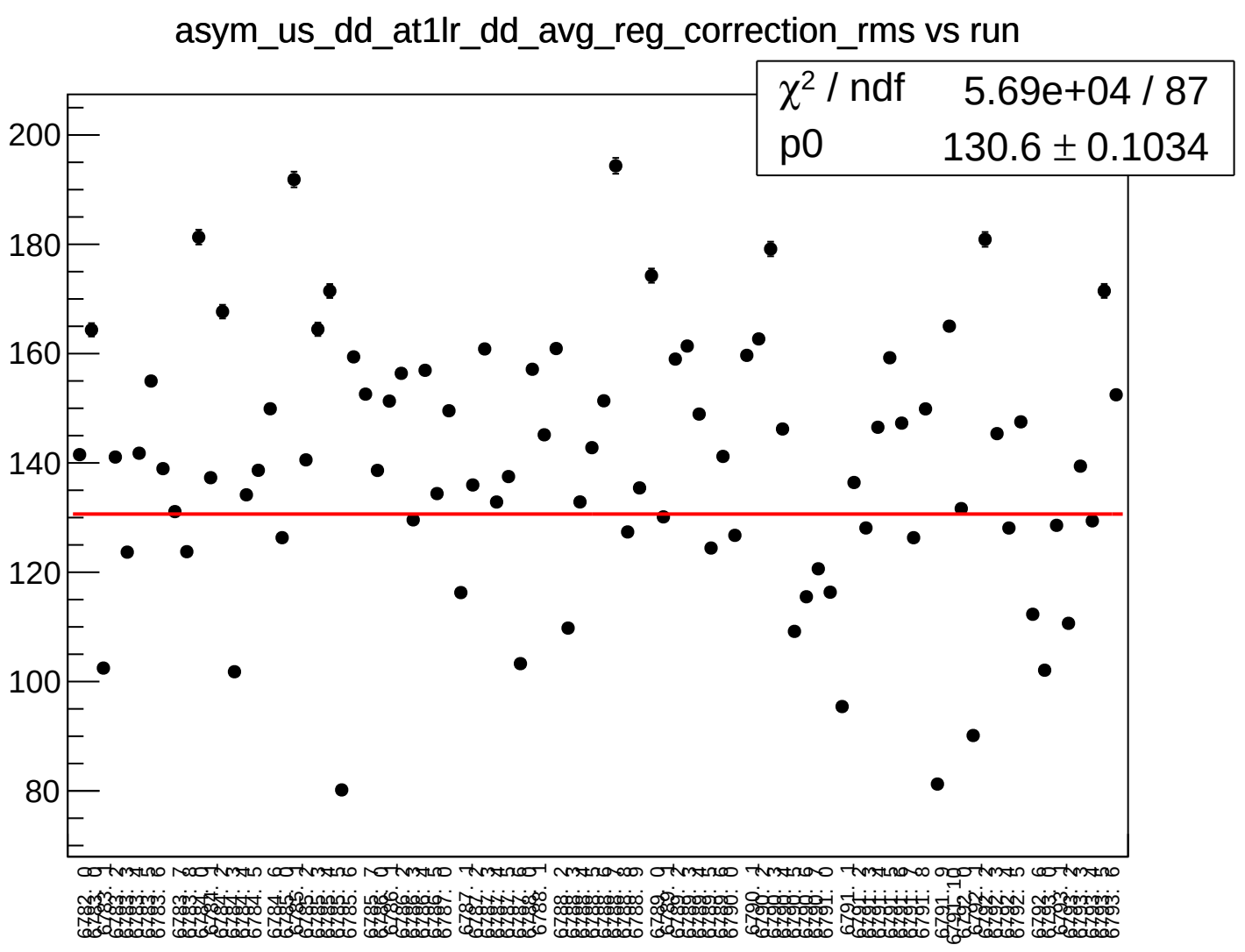

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 96.3 / 87
p0 108.6 ± 2388
pull
Entries 88
Mean 959.7
Std Dev 0

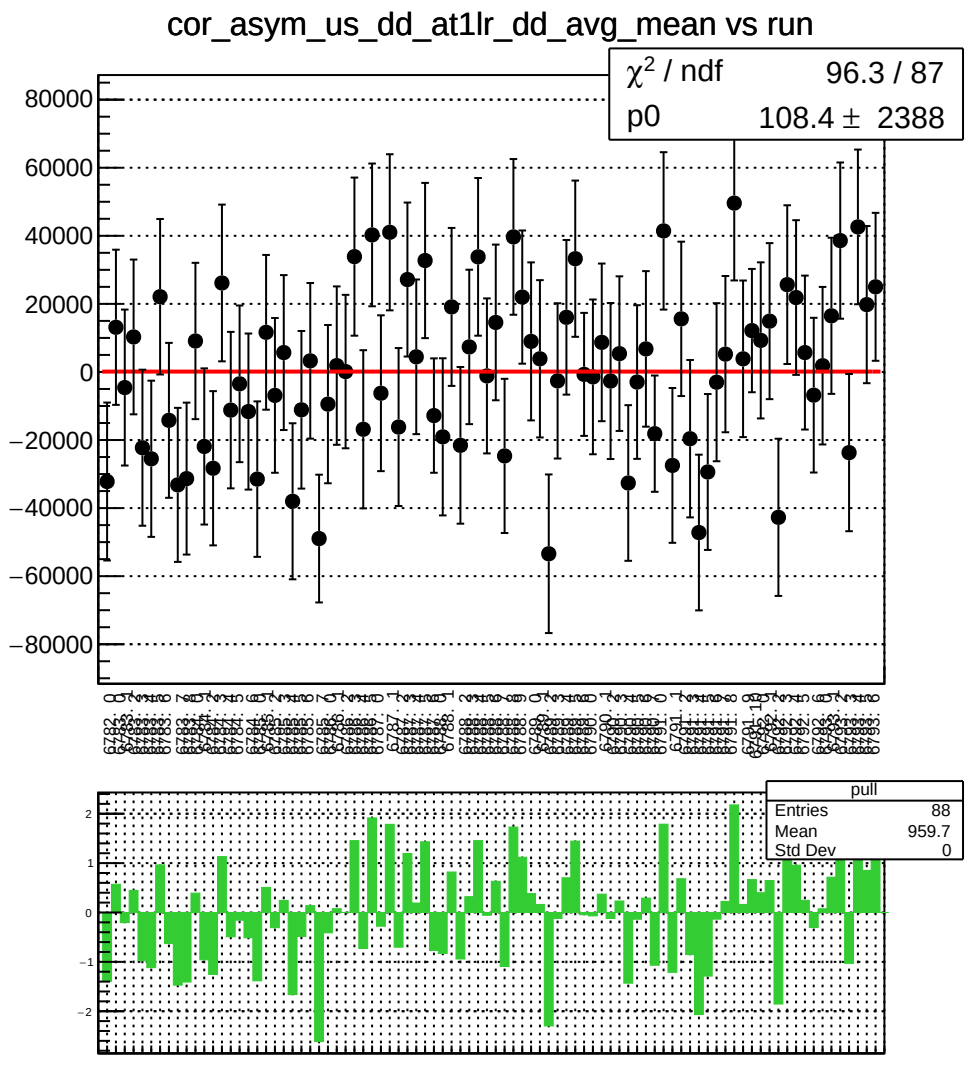

pull1D
Entries 88
Mean 0.007004
Std Dev 1.046

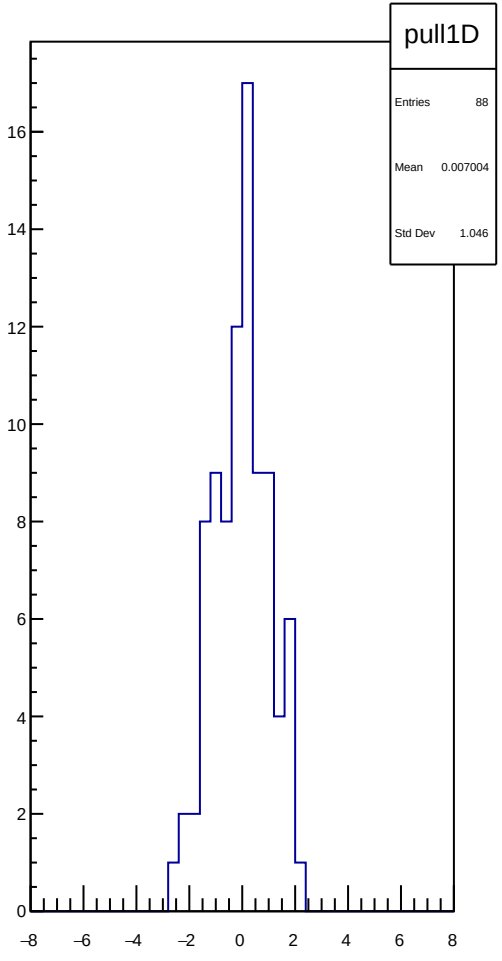

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 112.8 / 87
p0 2172 ± 1.689
2220
2200
2180
2160
2140
2120

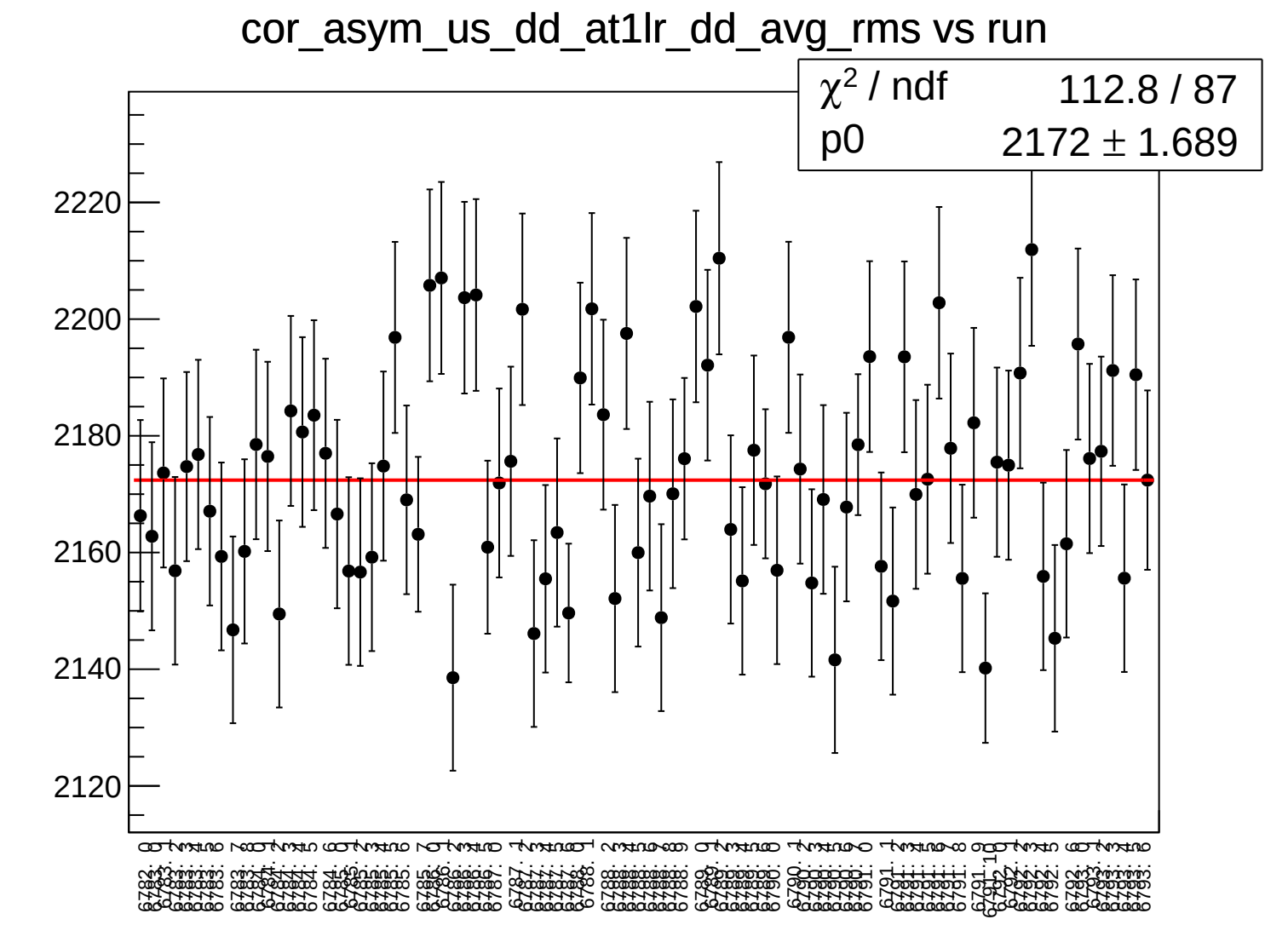

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 107.8 / 87
p0 −372.6 ± 146.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −44.89
Std Dev 0
2
1
0
−1
−2

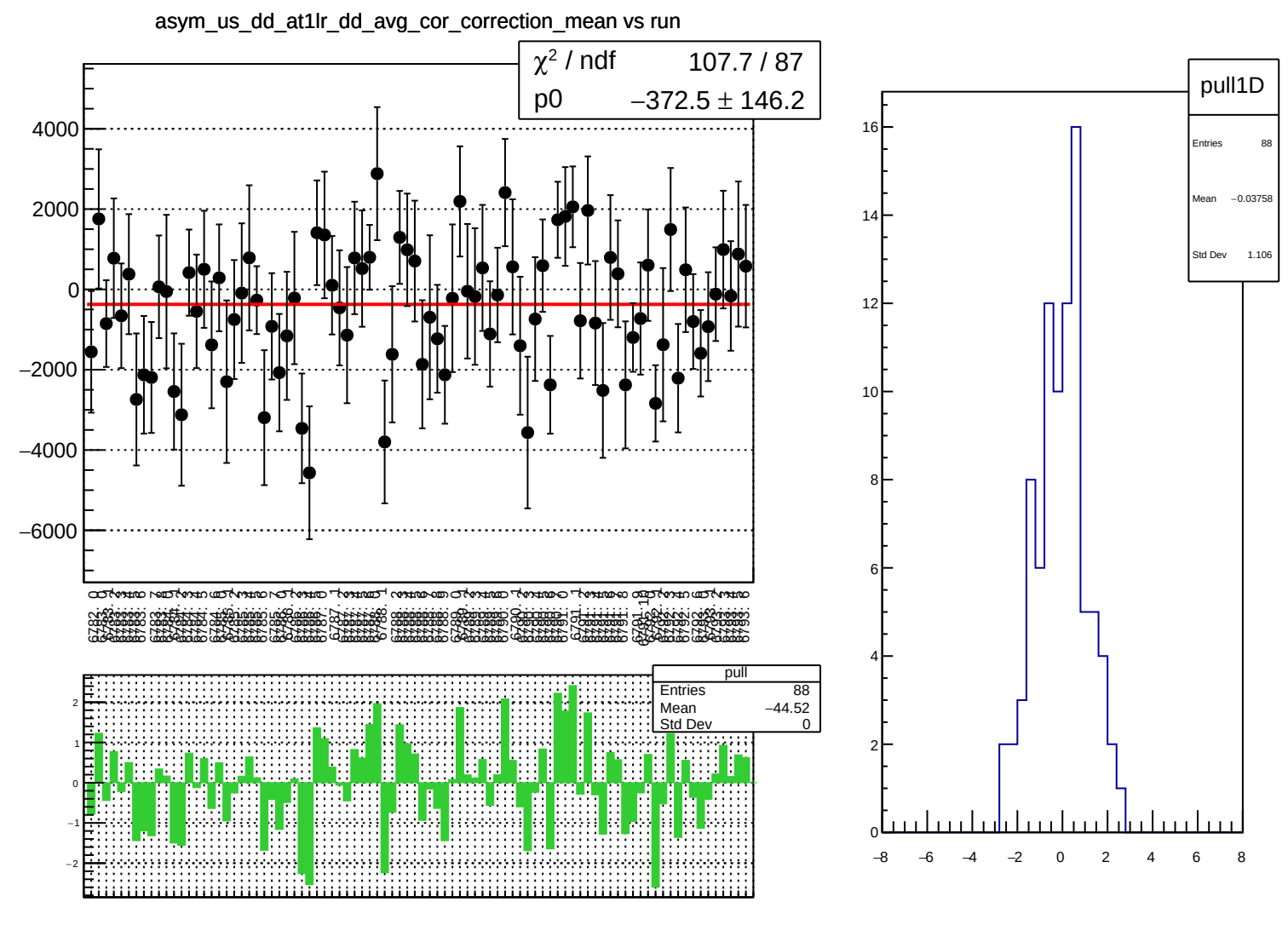

pull1D
Entries 88
Mean −0.03754
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

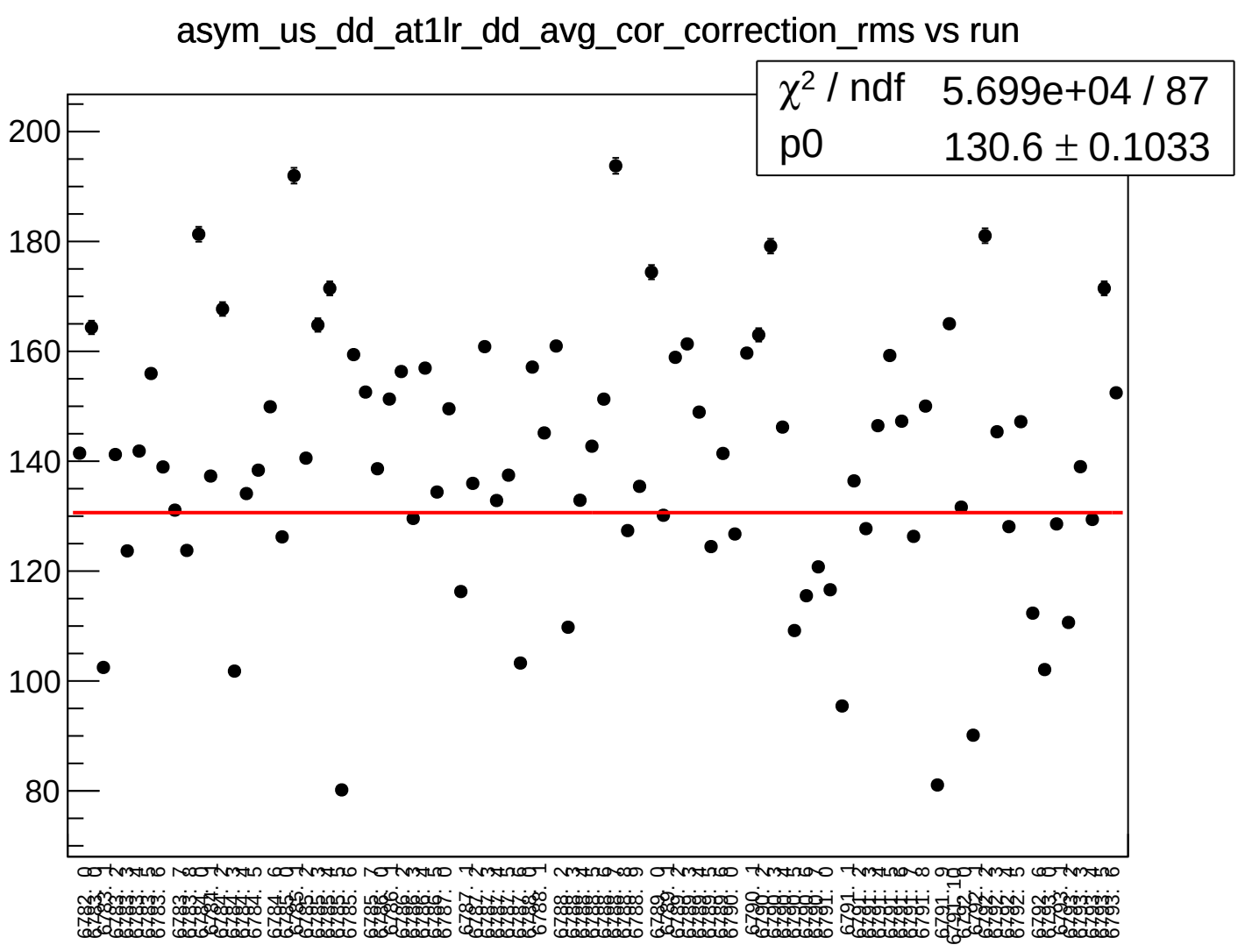

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.69e+04 / 87
p0 130.6 ± 0.1034
200
180
160
140
120
100
80

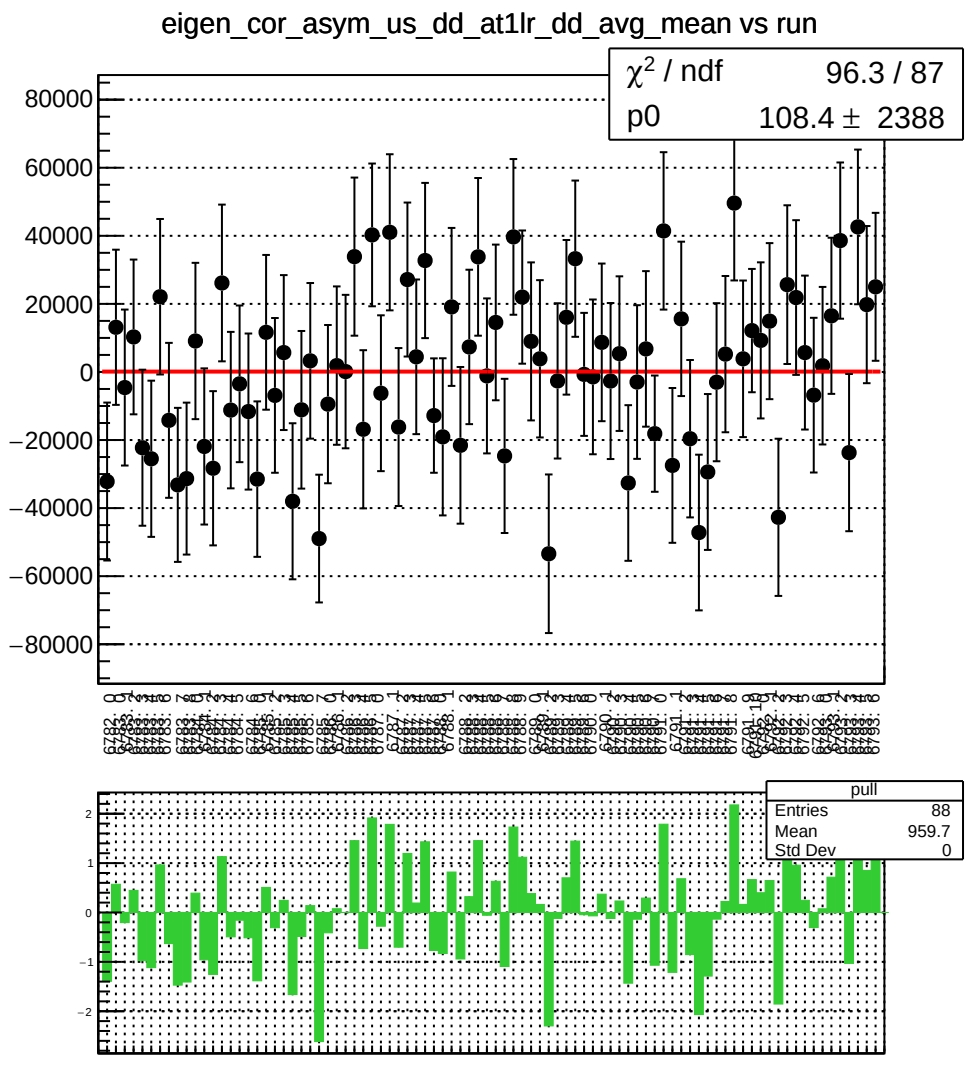

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 96.3 / 87
p0 108.4 ± 2388
pull
Entries 88
Mean 959.7
Std Dev 0

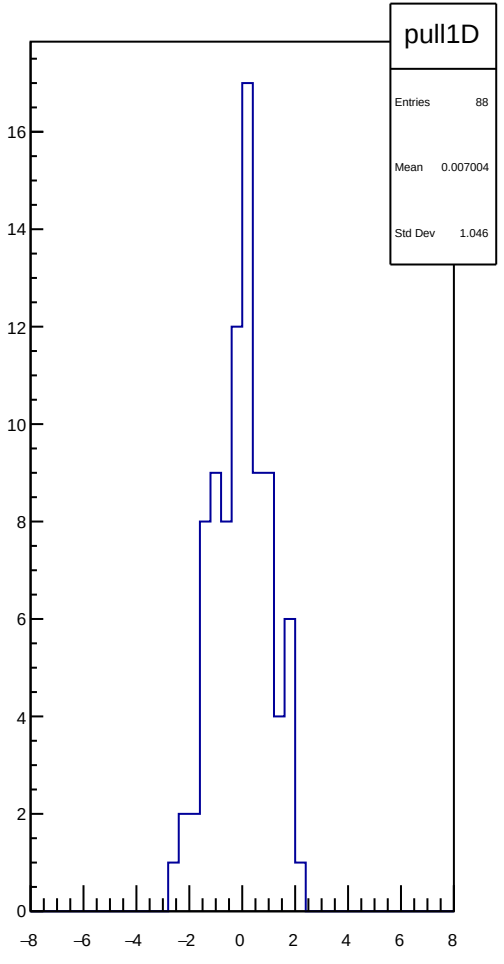

pull1D
Entries 88
Mean 0.007004
Std Dev 1.046

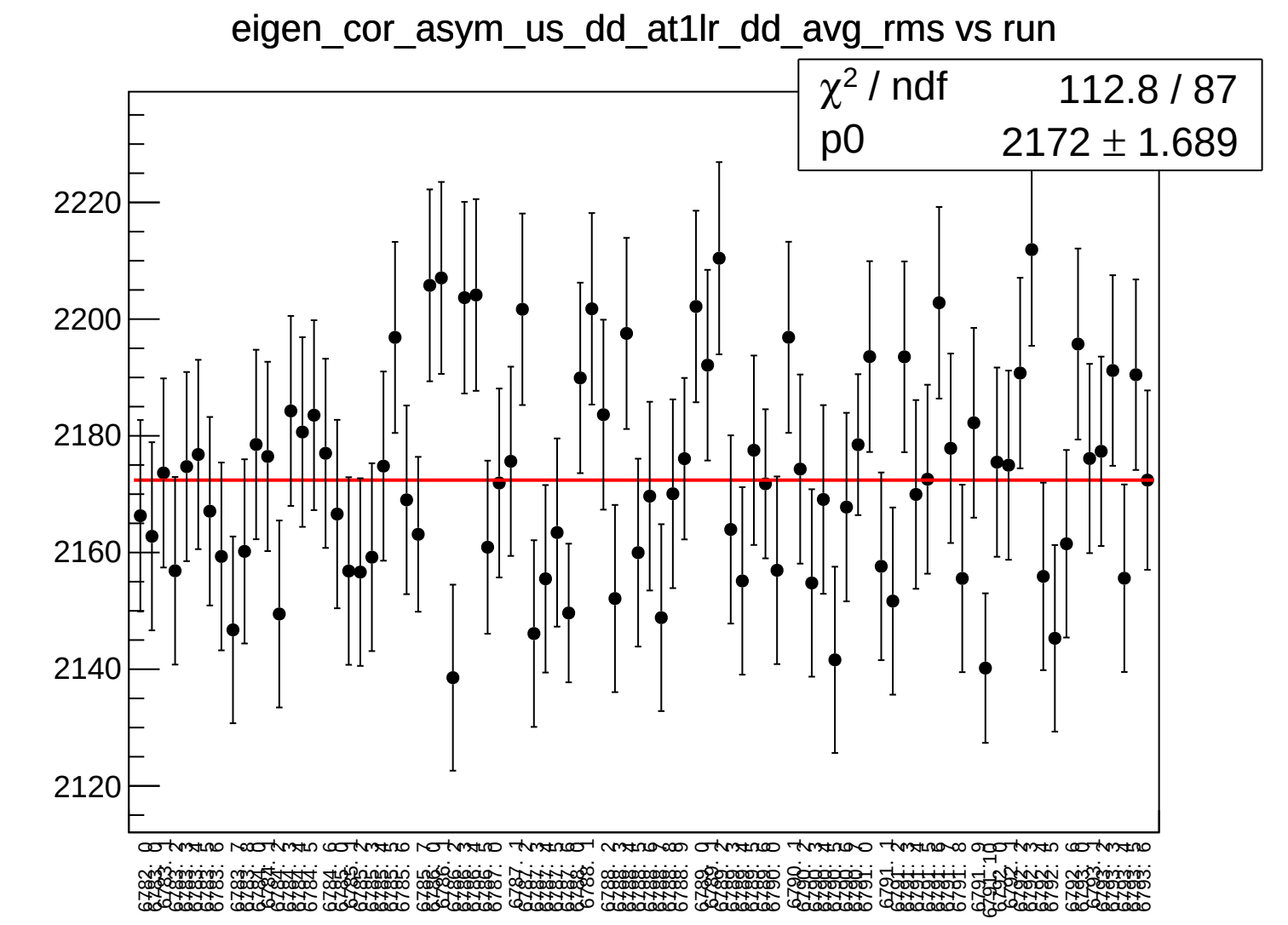

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 112.8 / 87
p0 2172 ± 1.689
2220
2200
2180
2160
2140
2120

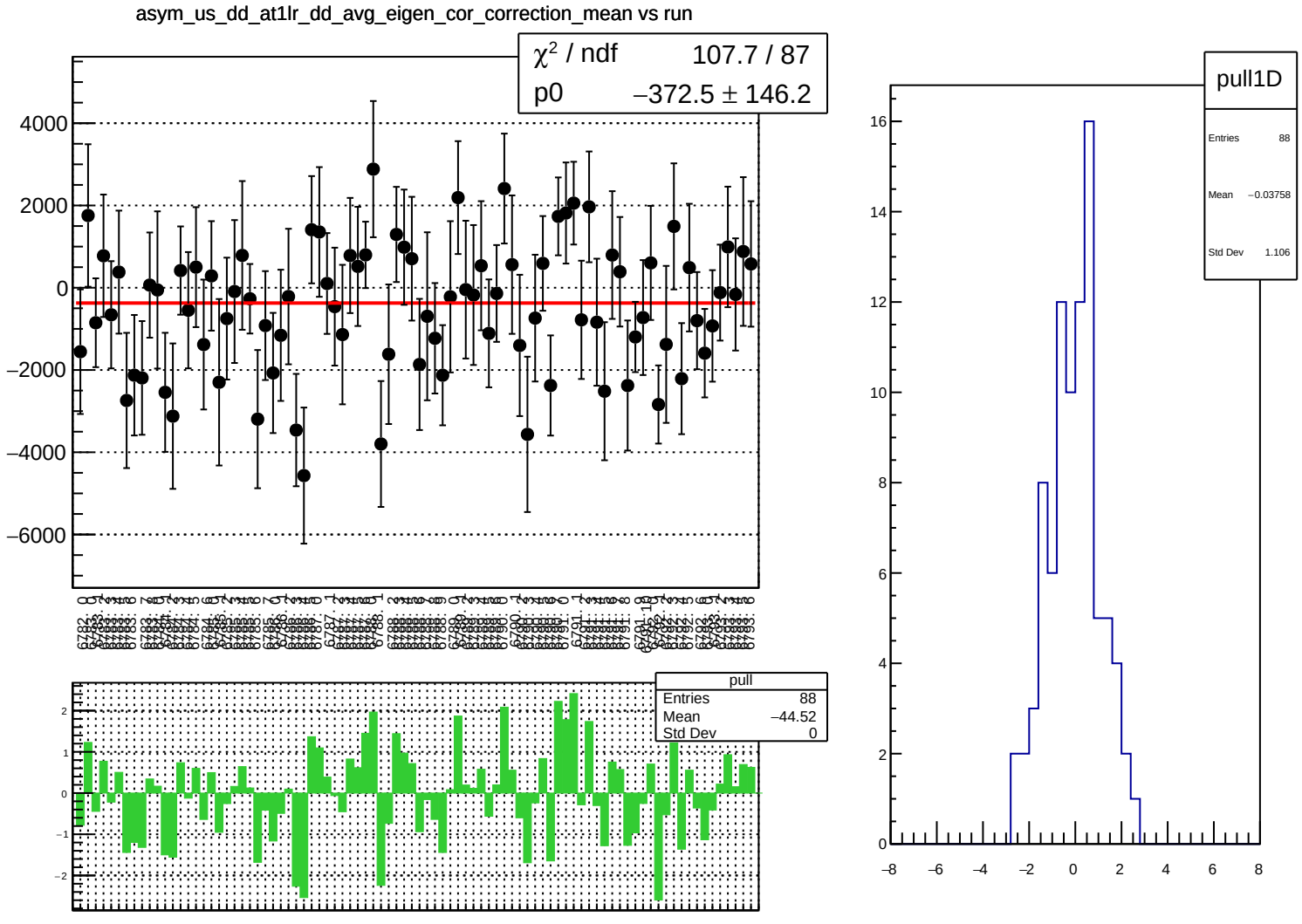

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 107.7 / 87
p0 −372.5 ± 146.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −44.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03758
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

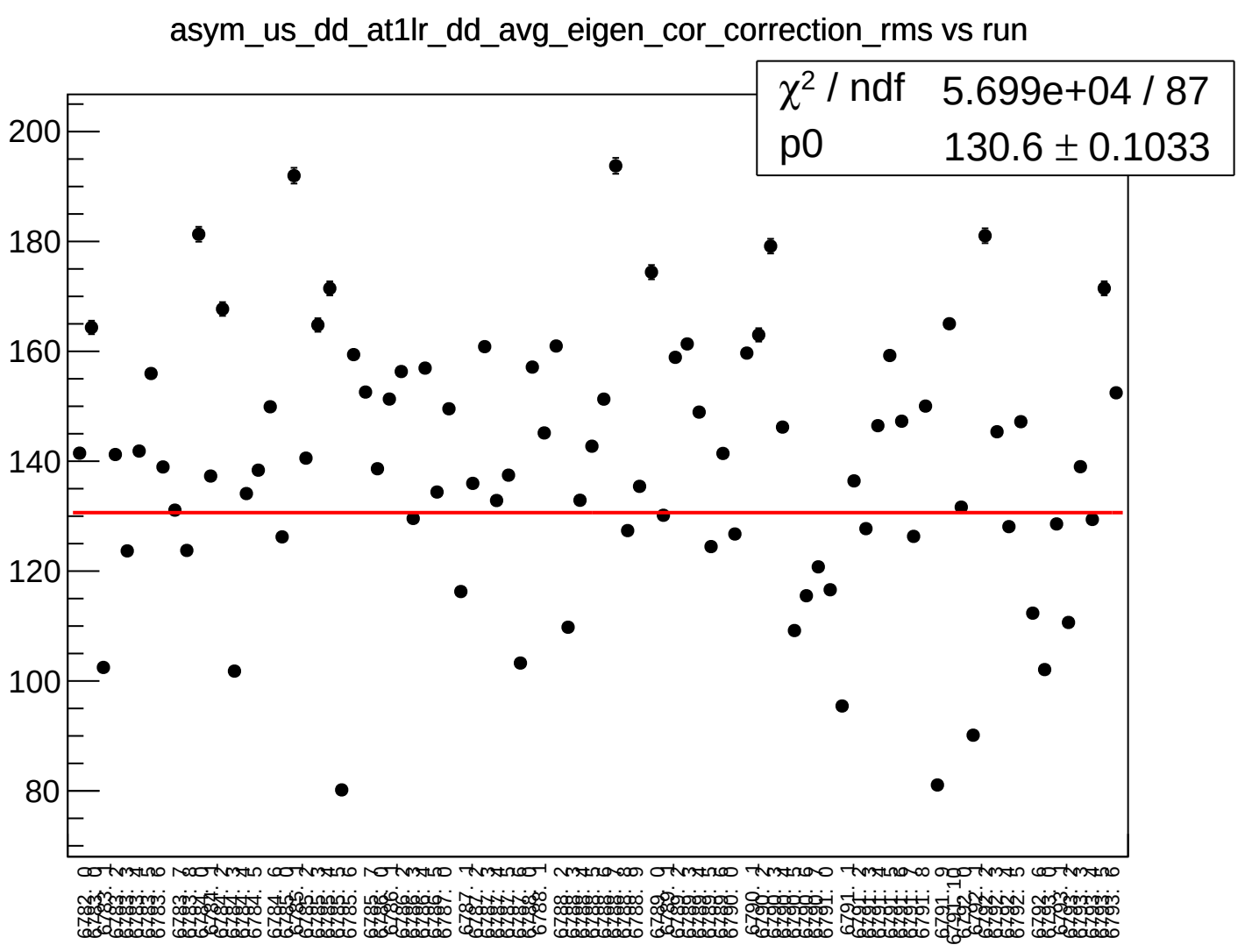

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.699e+04 / 87
p0 130.6 ± 0.1033
200
180
160
140
120
100
80

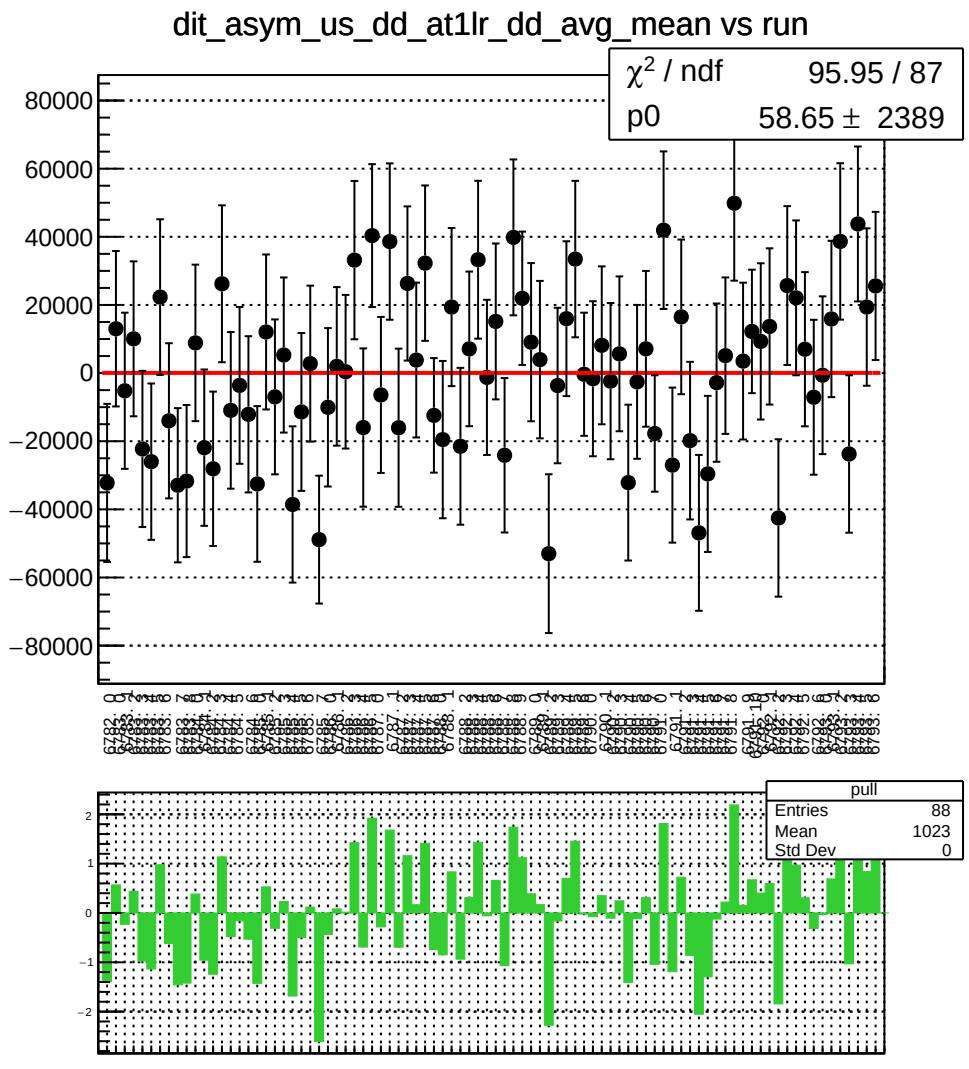

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 96.3 / 87
p0 108.4 ± 2388
pull
Entries 88
Mean 959.7
Std Dev 0

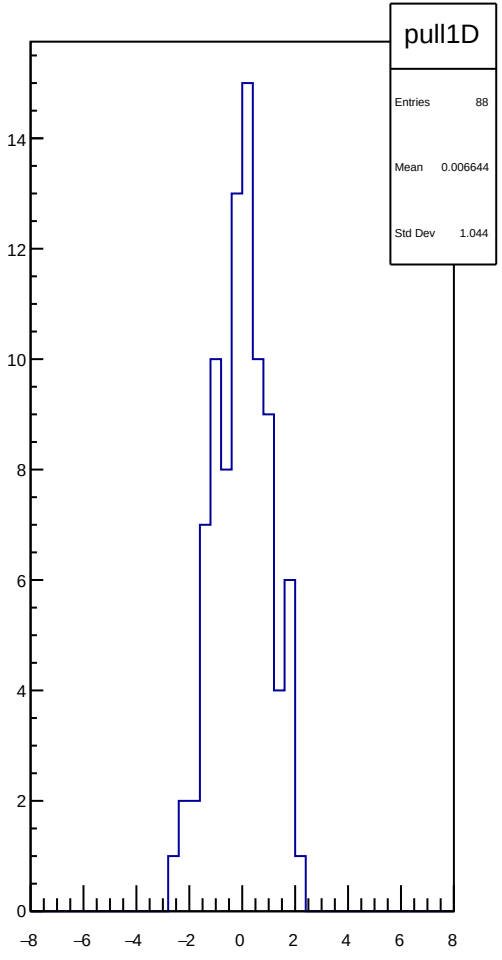

pull1D
Entries 88
Mean 0.007004
Std Dev 1.046

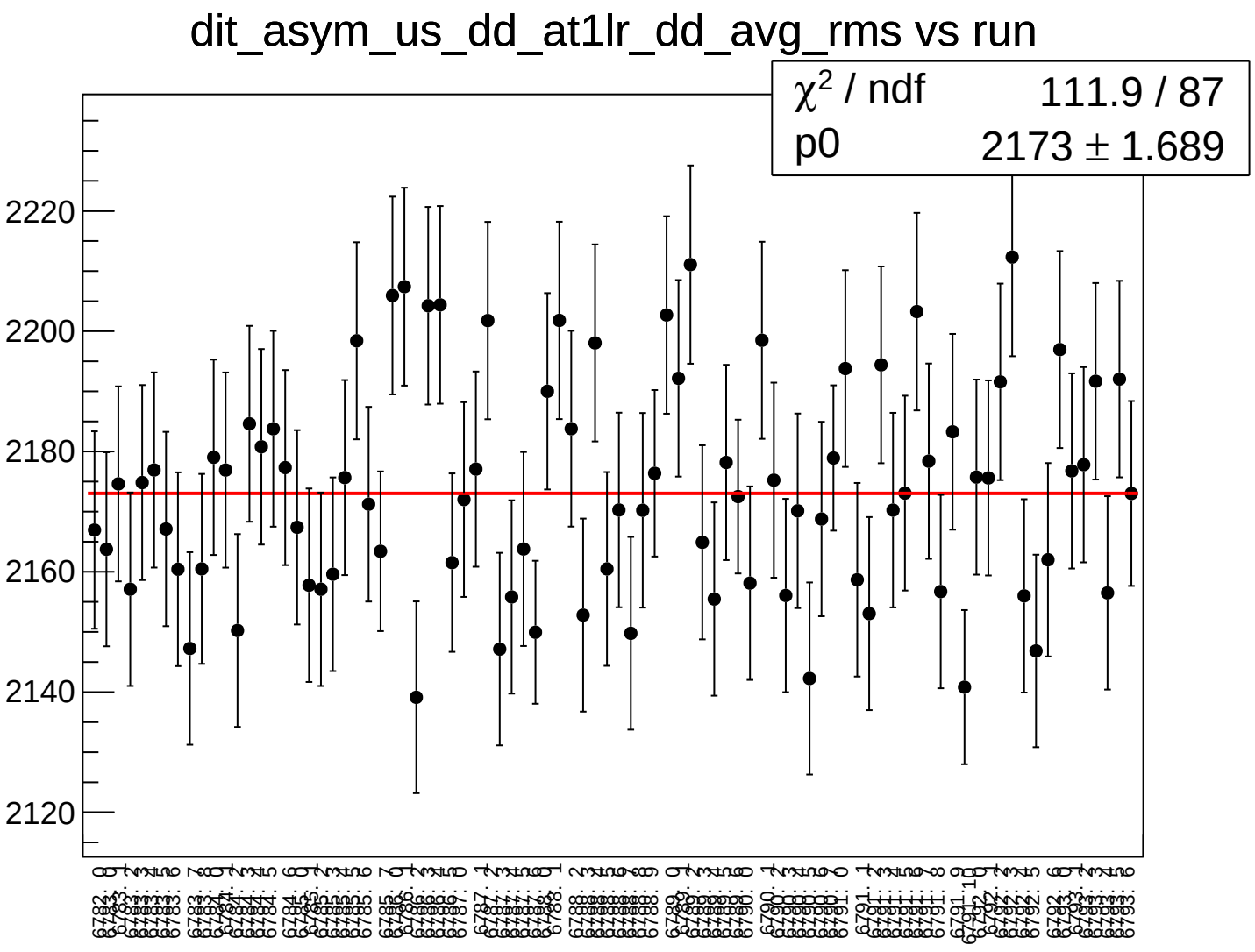

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 112.8 / 87
p0 2172 ± 1.689
2220
2200
2180
2160
2140
2120

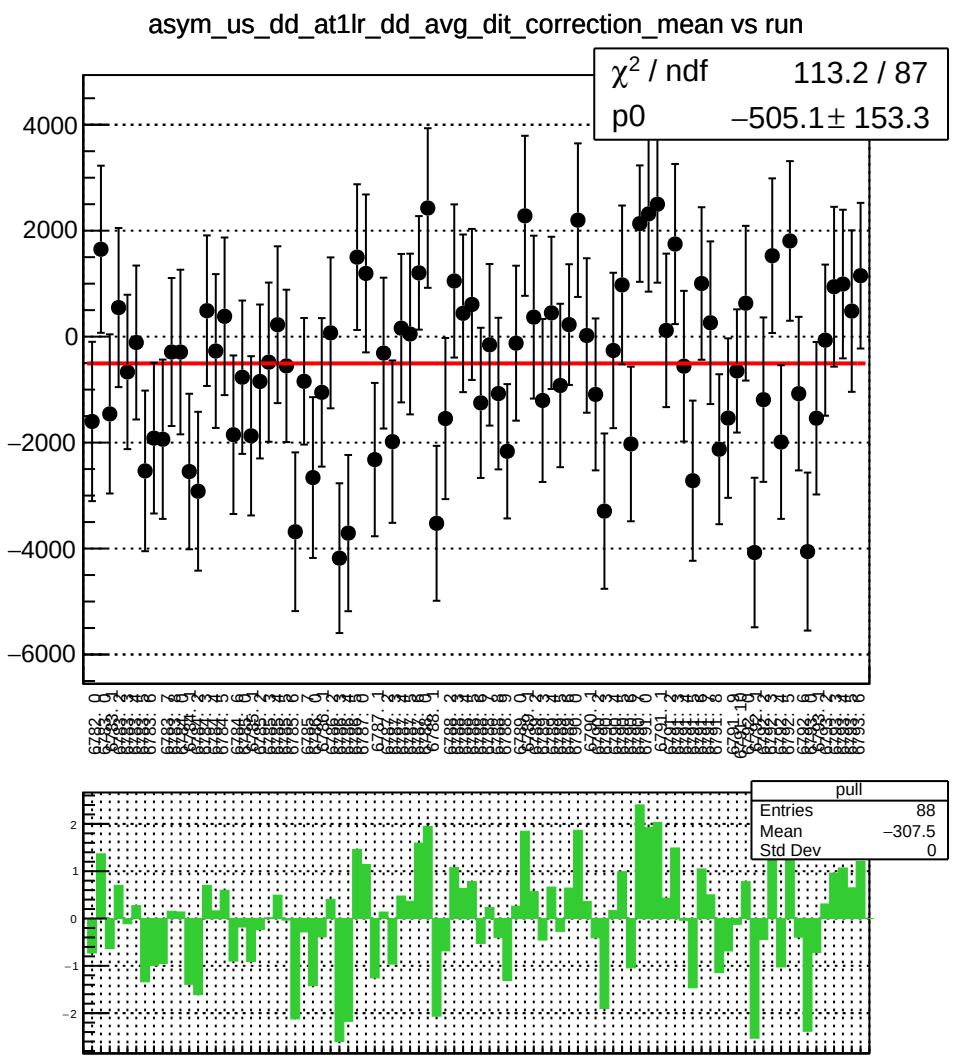

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 107.7 / 87
p0 −372.5 ± 146.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −44.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03758
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

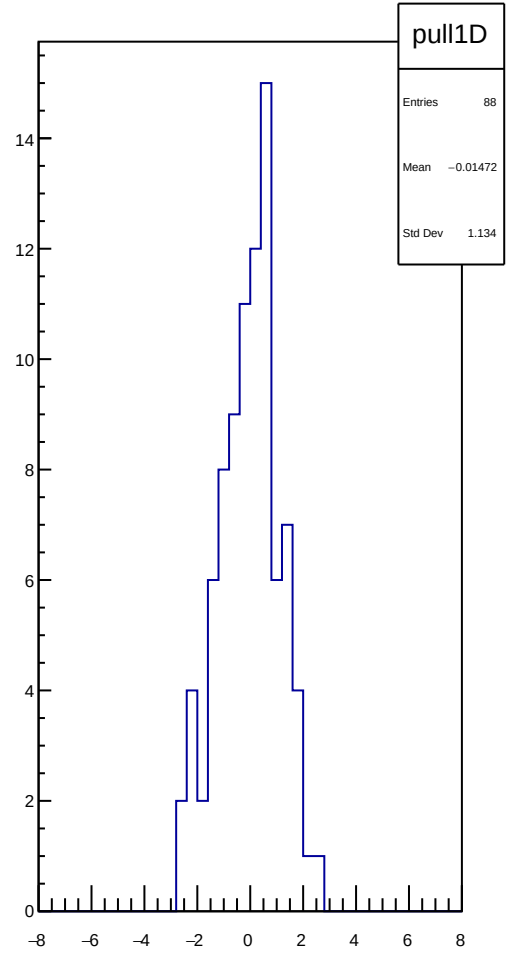

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.699e+04 / 87
p0 130.6 ± 0.1033
200
180
160
140
120
100
80

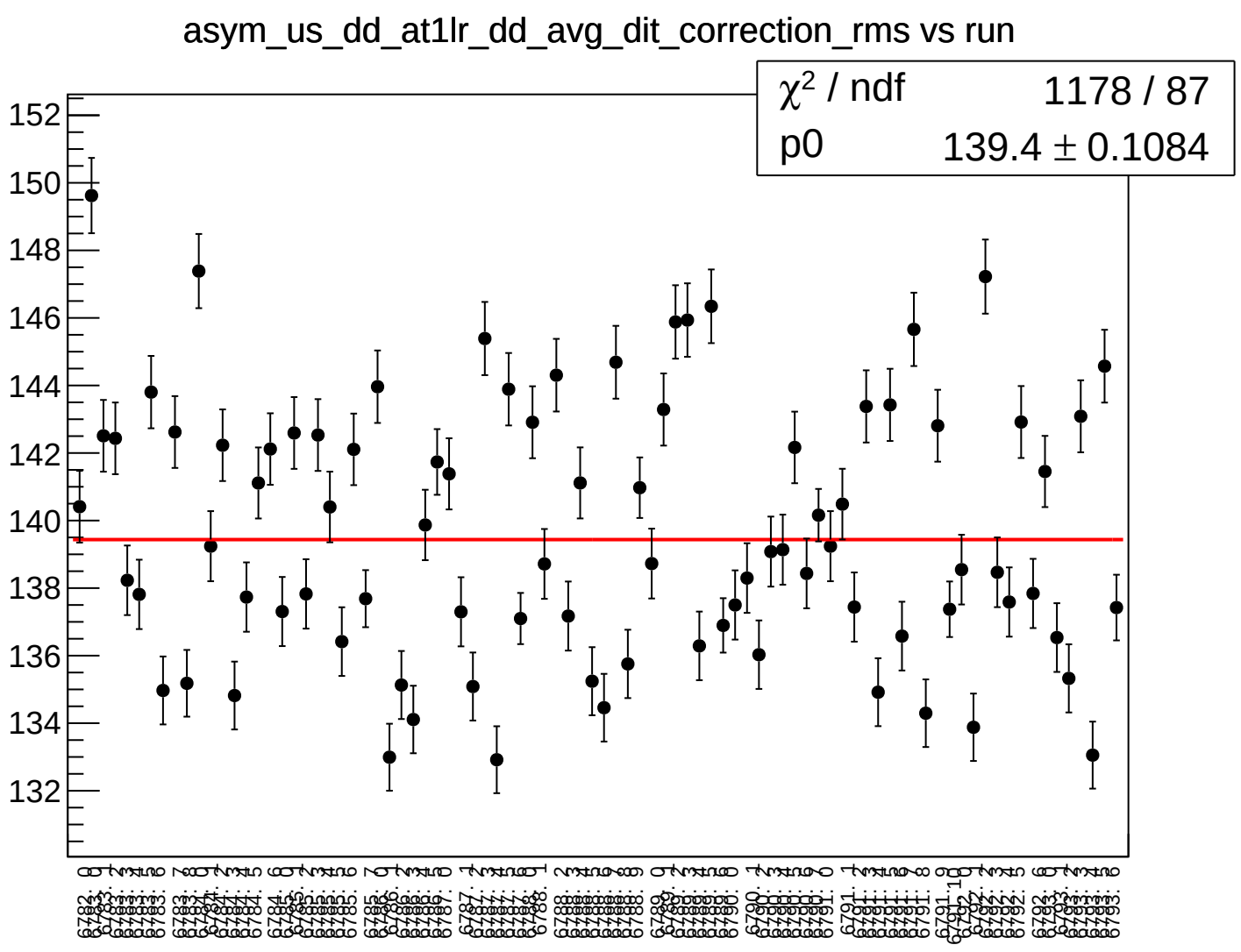

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.95 / 87
p0 58.65 ± 2389
pull
Entries 88
Mean 1023
Std Dev 0

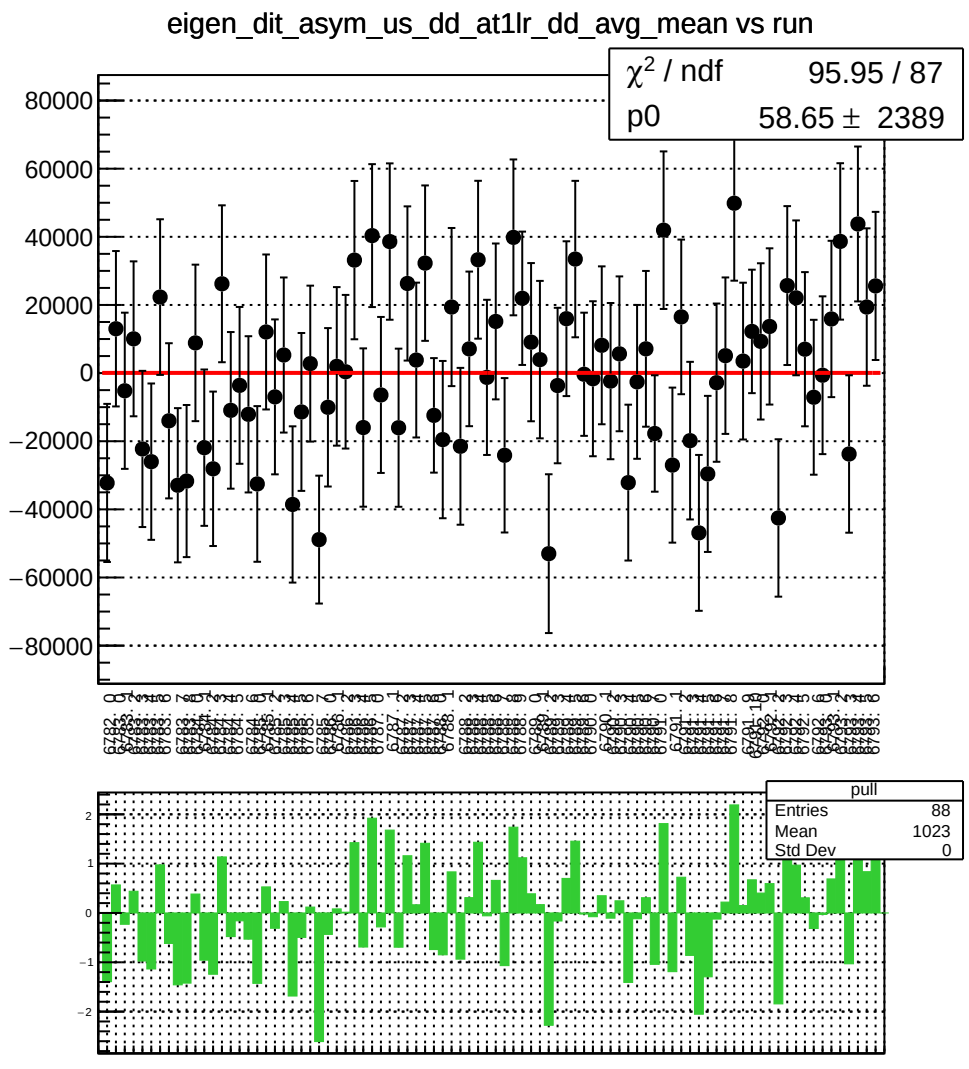

pull1D
Entries 88
Mean 0.006644
Std Dev 1.044

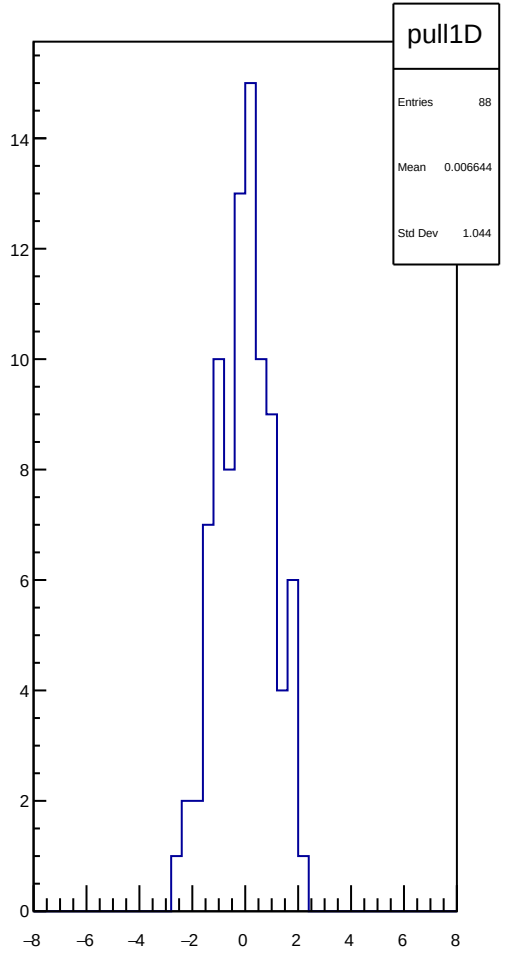

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 111.9 / 87
p0 2173 ± 1.689
2220
2200
2180
2160
2140
2120

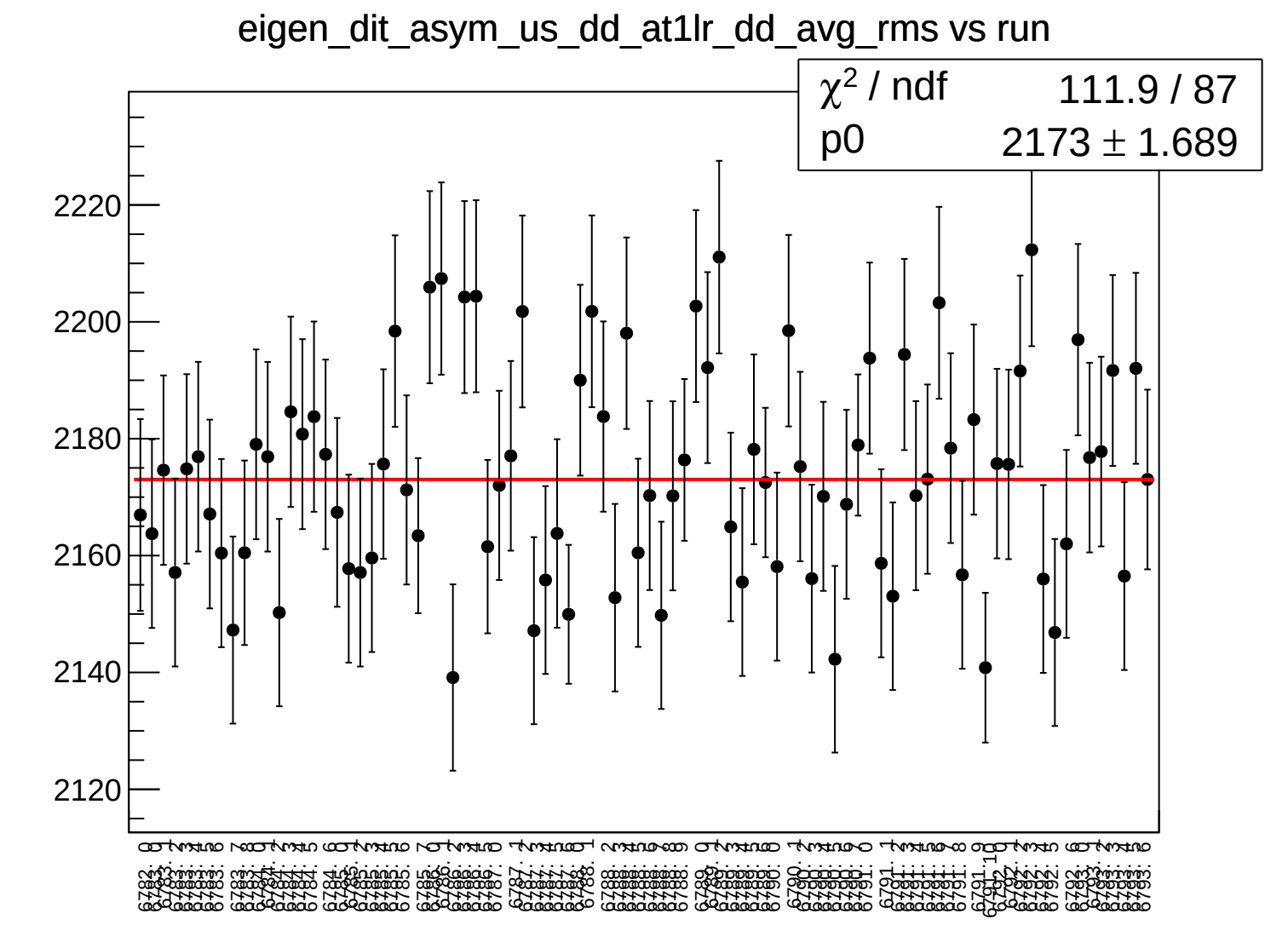

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 113.2 / 87
p0 −505.1± 153.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −307.5
Std Dev 0
2
1
0
−1
−2

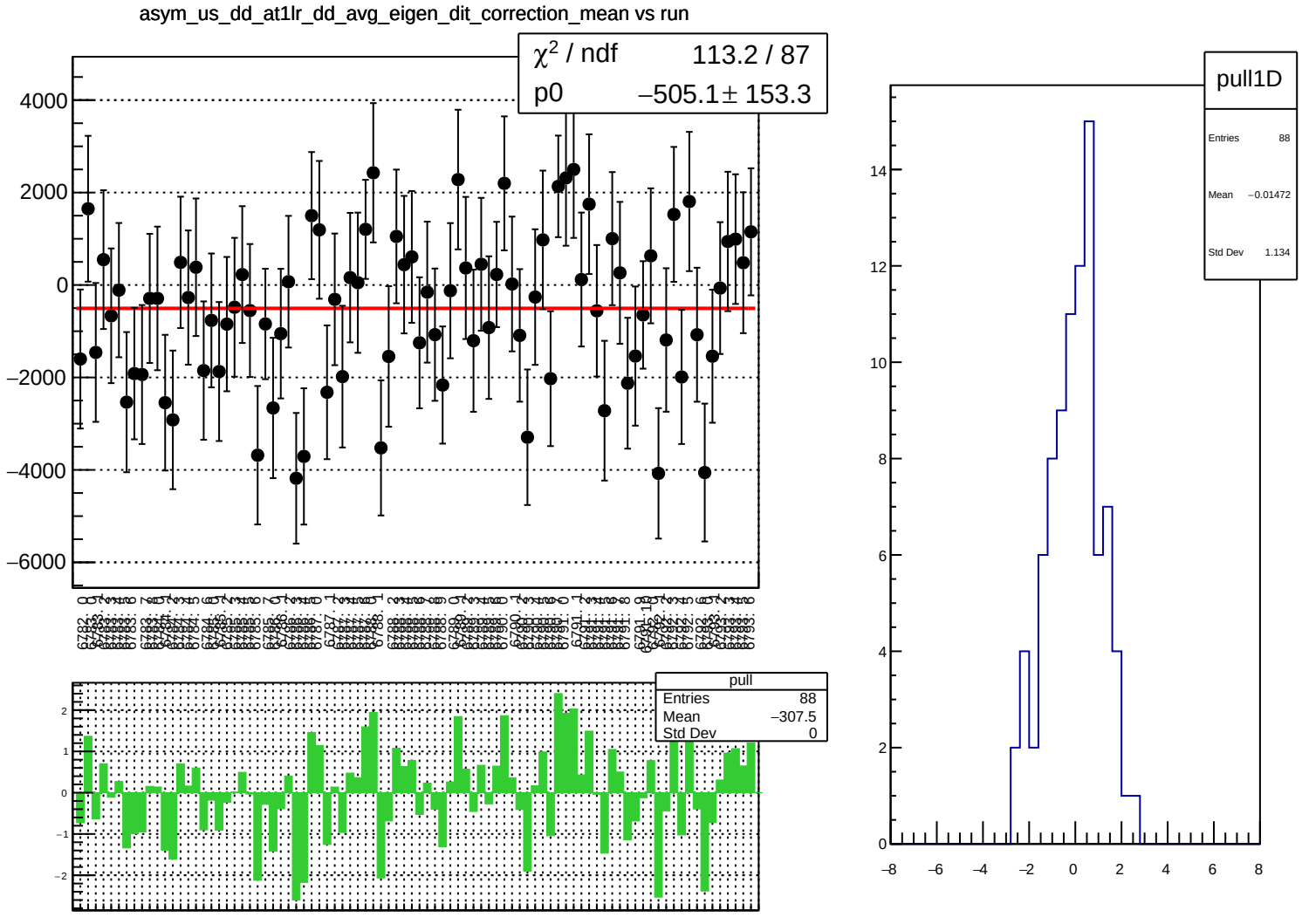

pull1D
Entries 88
Mean −0.01472
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

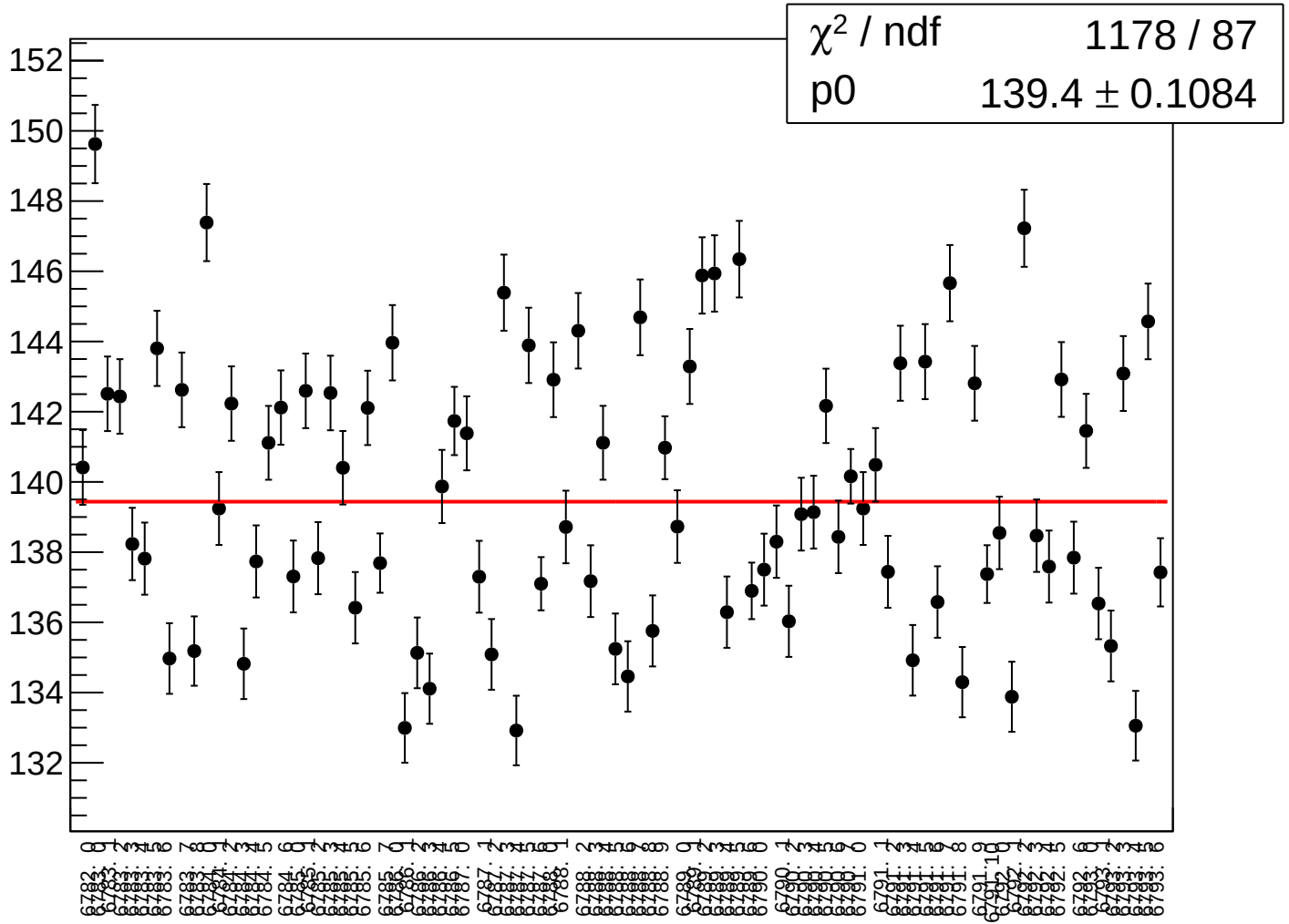

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1178 / 87
p0 139.4 ± 0.1084
152
150
148
146
144
142
140
138
136
134
132

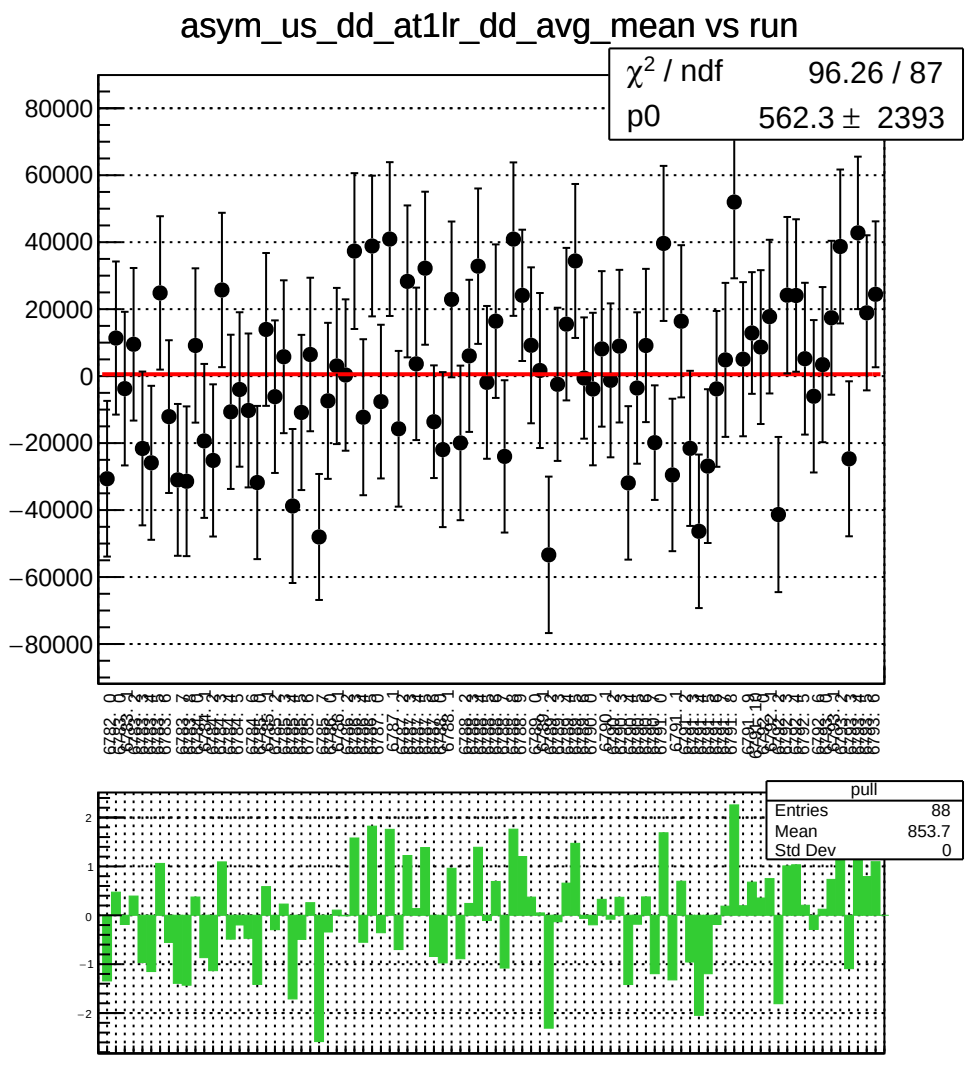

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.95 / 87
p0 58.65 ± 2389
pull
Entries 88
Mean 1023
Std Dev 0

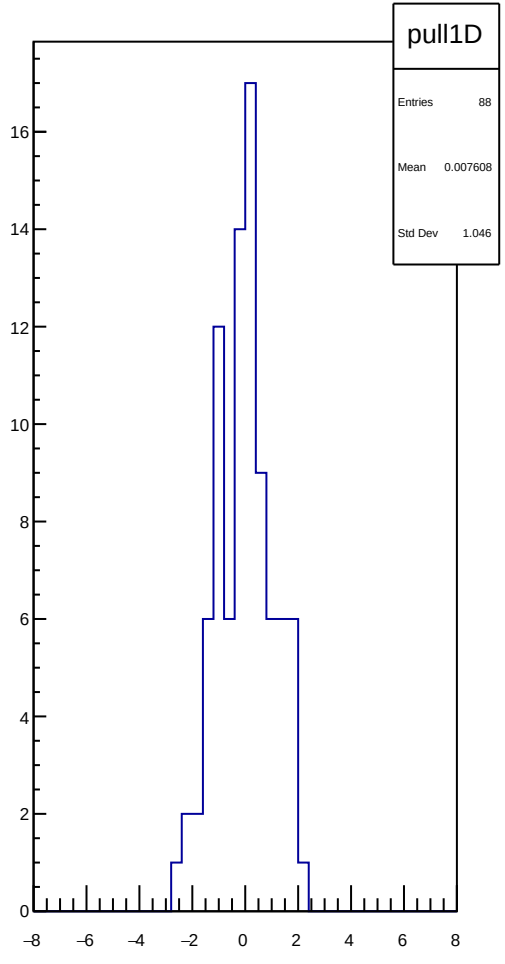

pull1D
Entries 88
Mean 0.006644
Std Dev 1.044

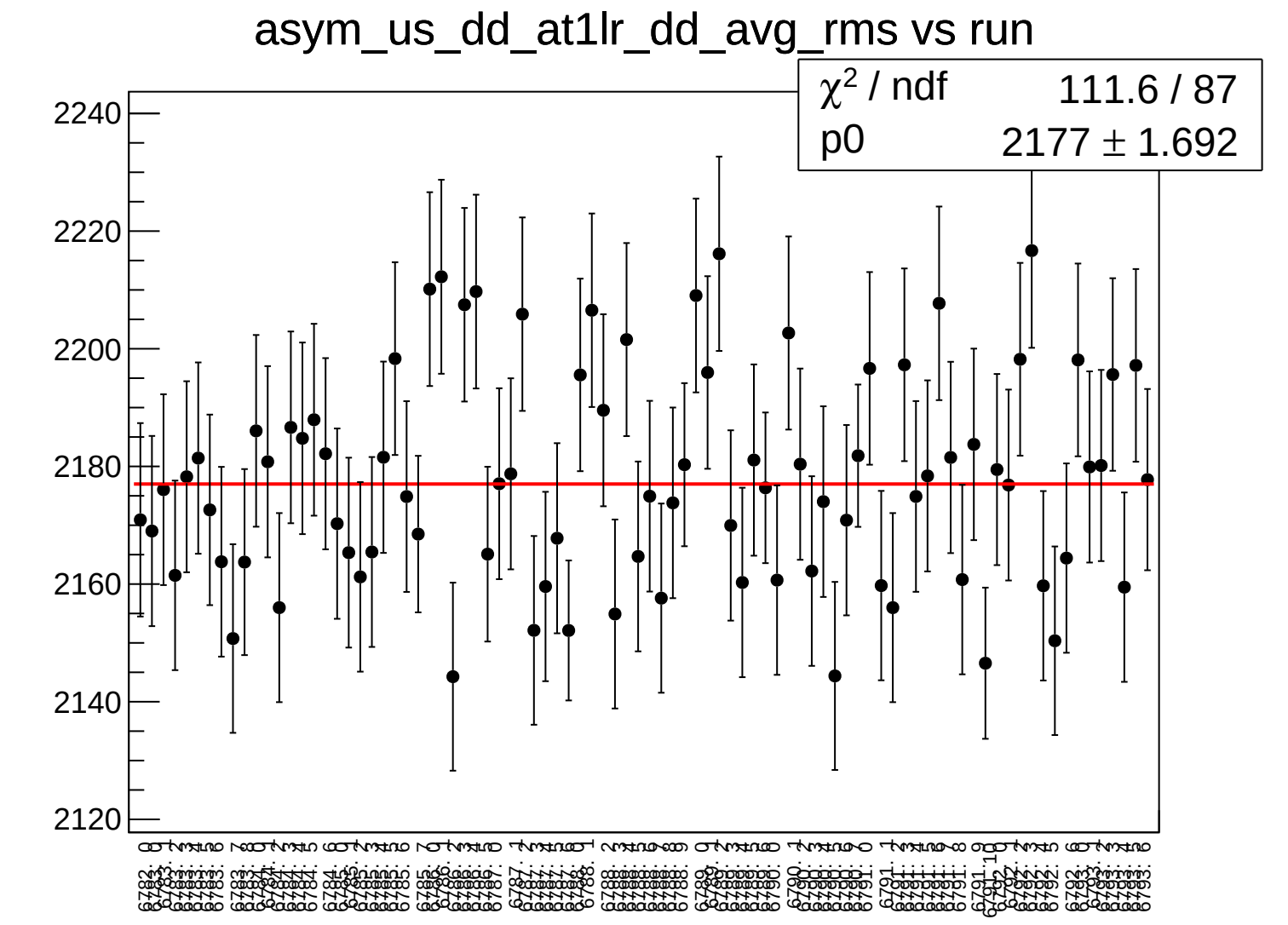

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 111.9 / 87
p0 2173 ± 1.689
2220
2200
2180
2160
2140
2120

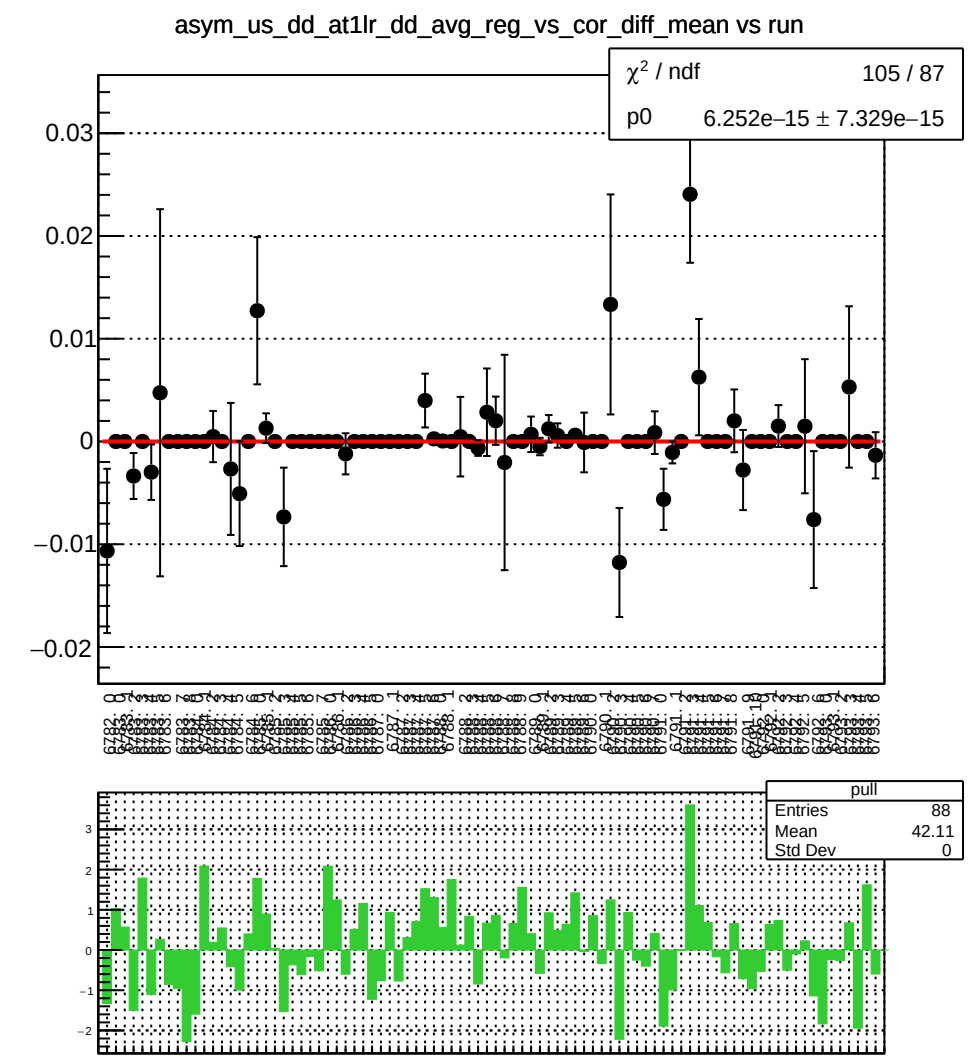

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.2 / 87
p0 −505.1± 153.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −307.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01472
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

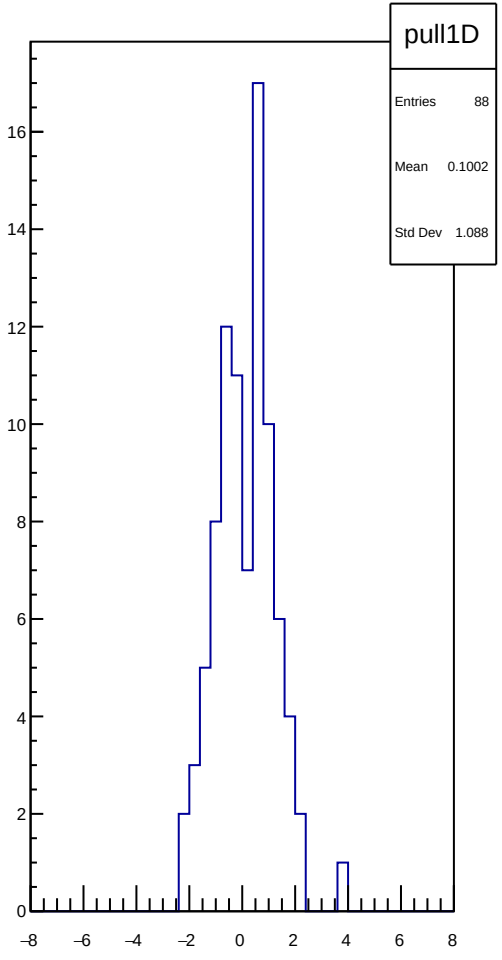

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1178 / 87
p0 139.4 ± 0.1084
152
150
148
146
144
142
140
138
136
134
132

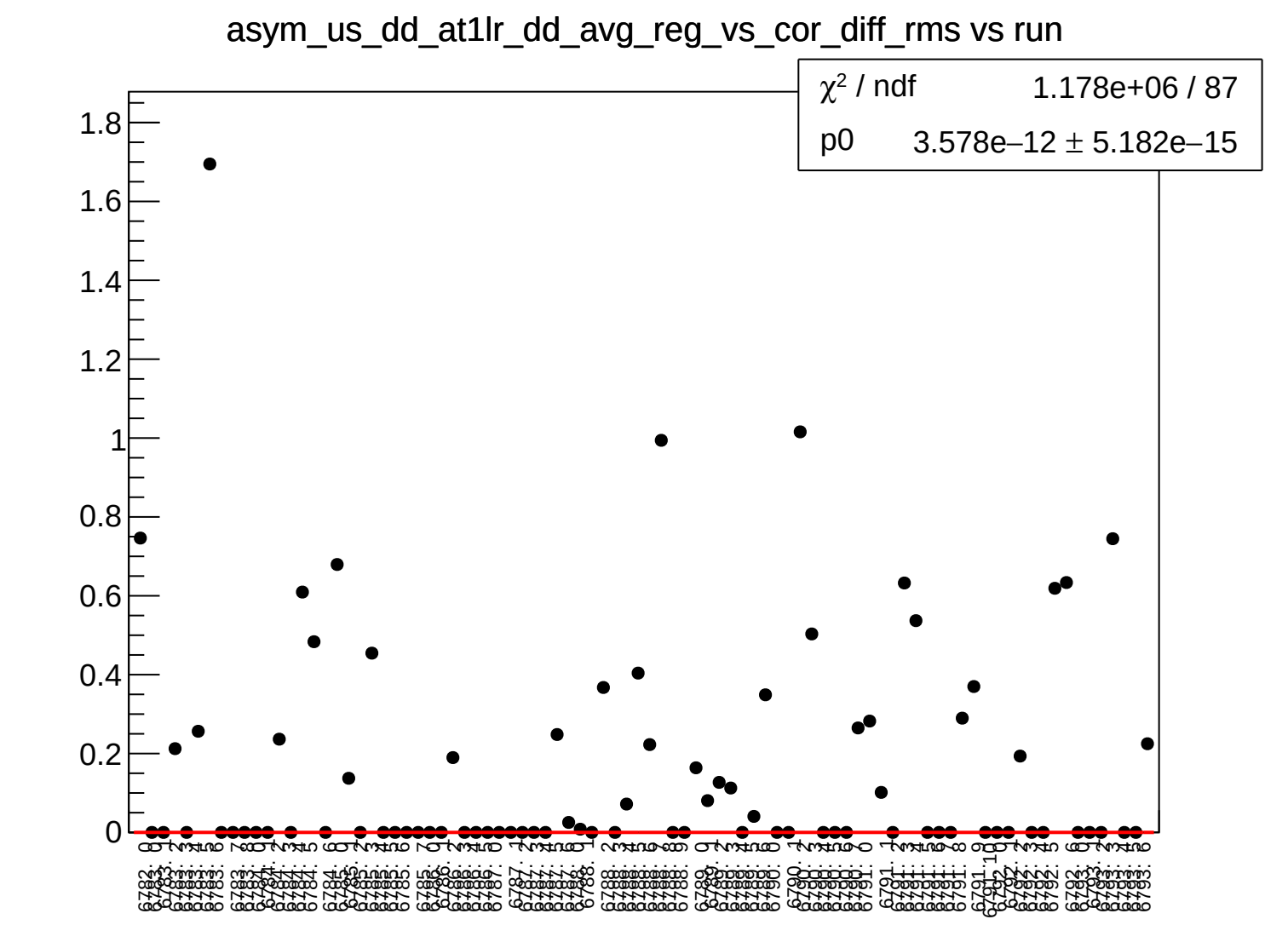

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 96.26 / 87
p0 562.3 ± 2393
pull
Entries 88
Mean 853.7
Std Dev 0

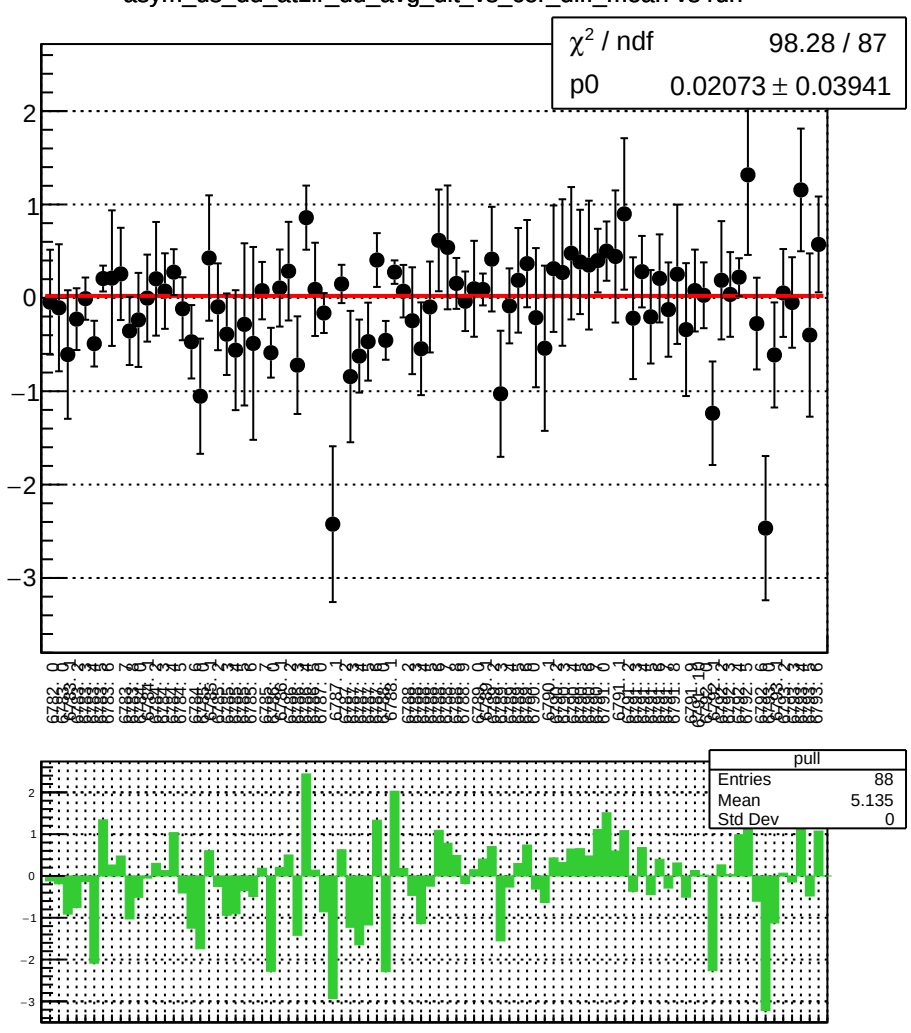

pull1D
Entries 88
Mean 0.007608
Std Dev 1.046

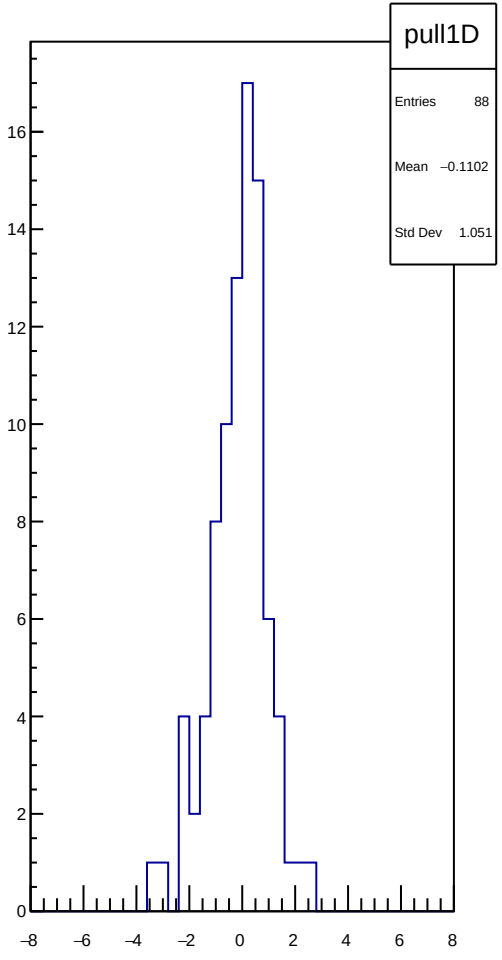

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 111.6 / 87
p0 2177 ± 1.692
2240
2220
2200
2180
2160
2140
2120

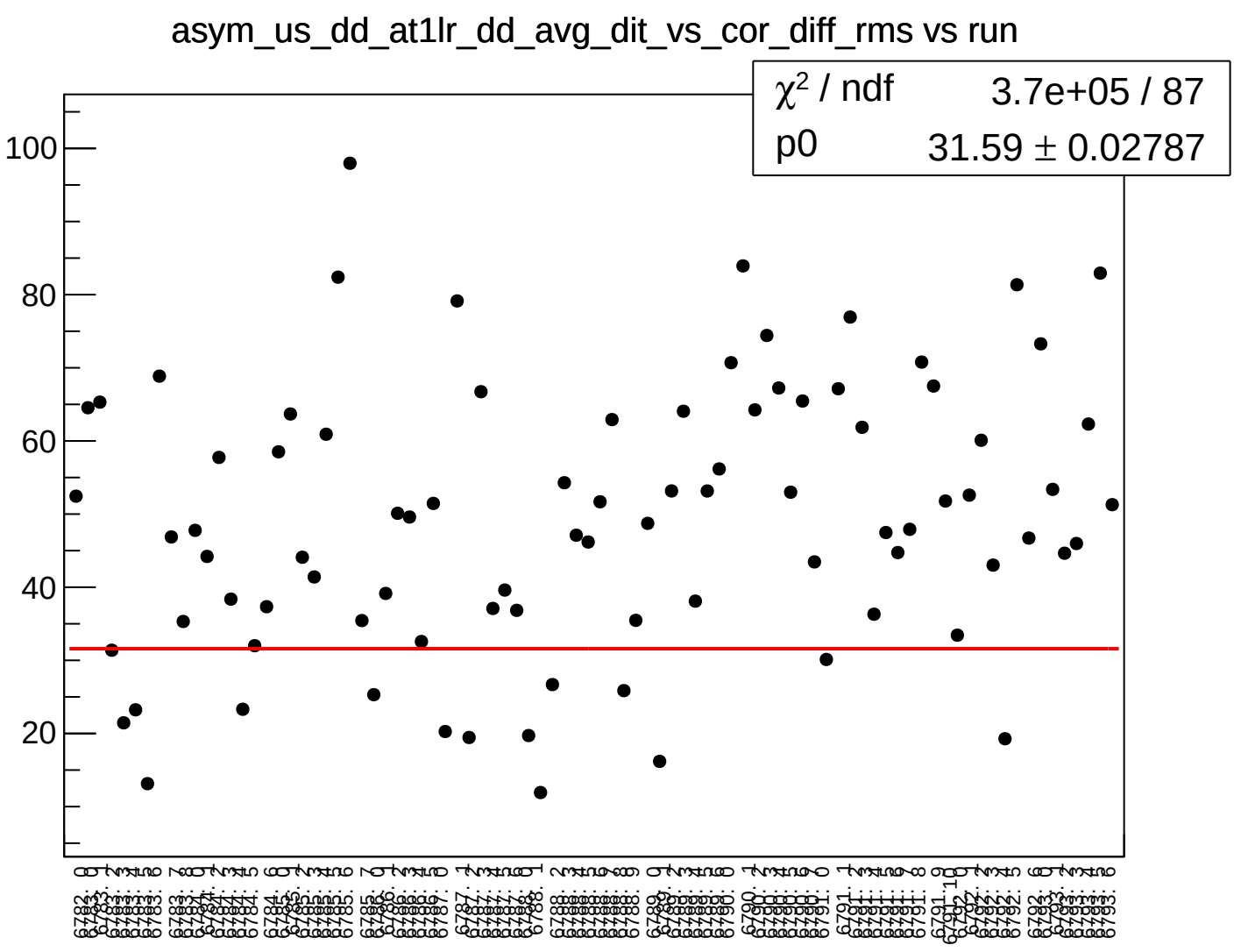

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105 / 87
p0 6.252e−15 ± 7.329e−15
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 42.11
Std Dev 0
3
2
1
0
−1
−2

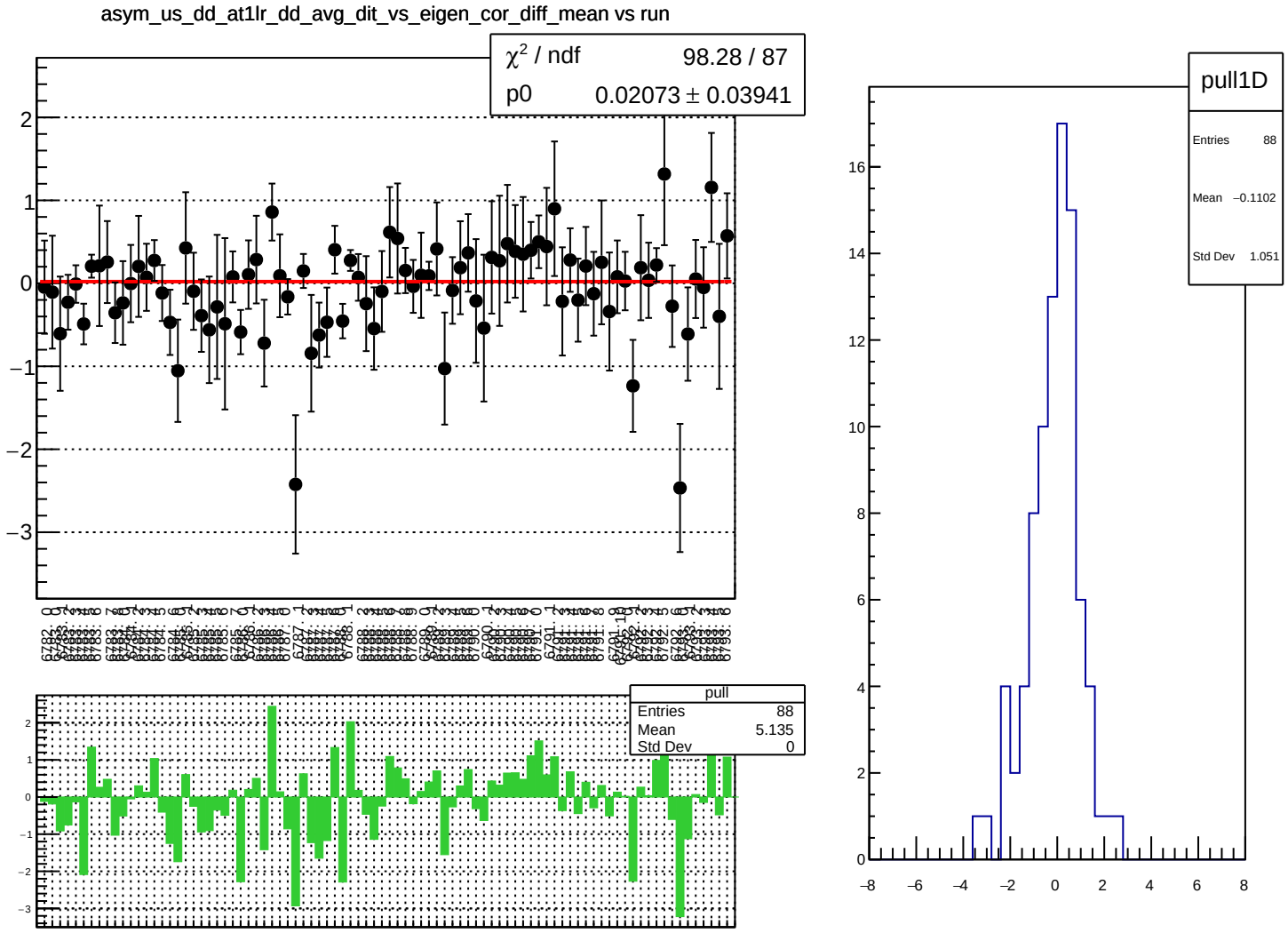

pull1D
Entries 88
Mean 0.1002
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

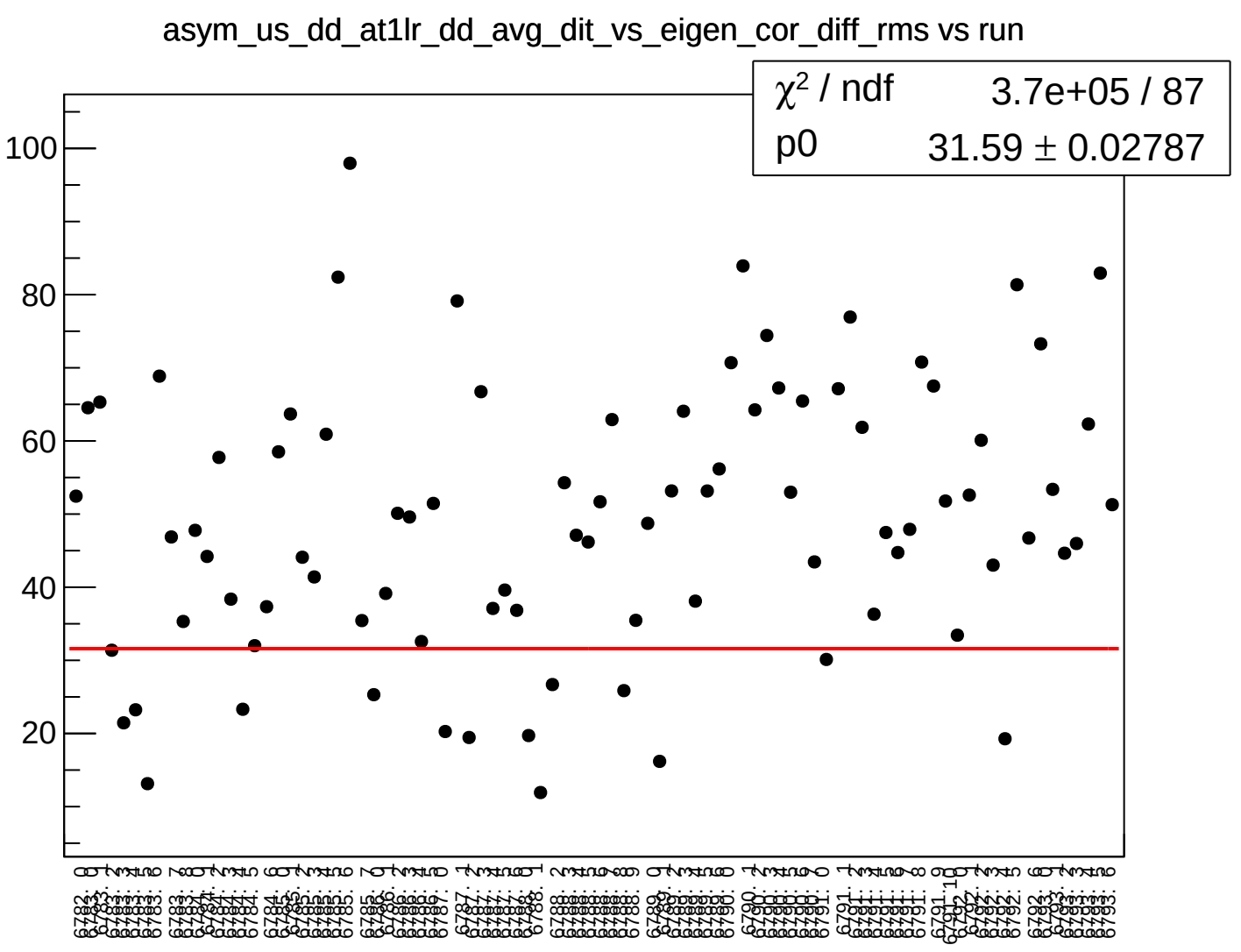

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.178e+06 / 87
p0 3.578e−12 ± 5.182e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

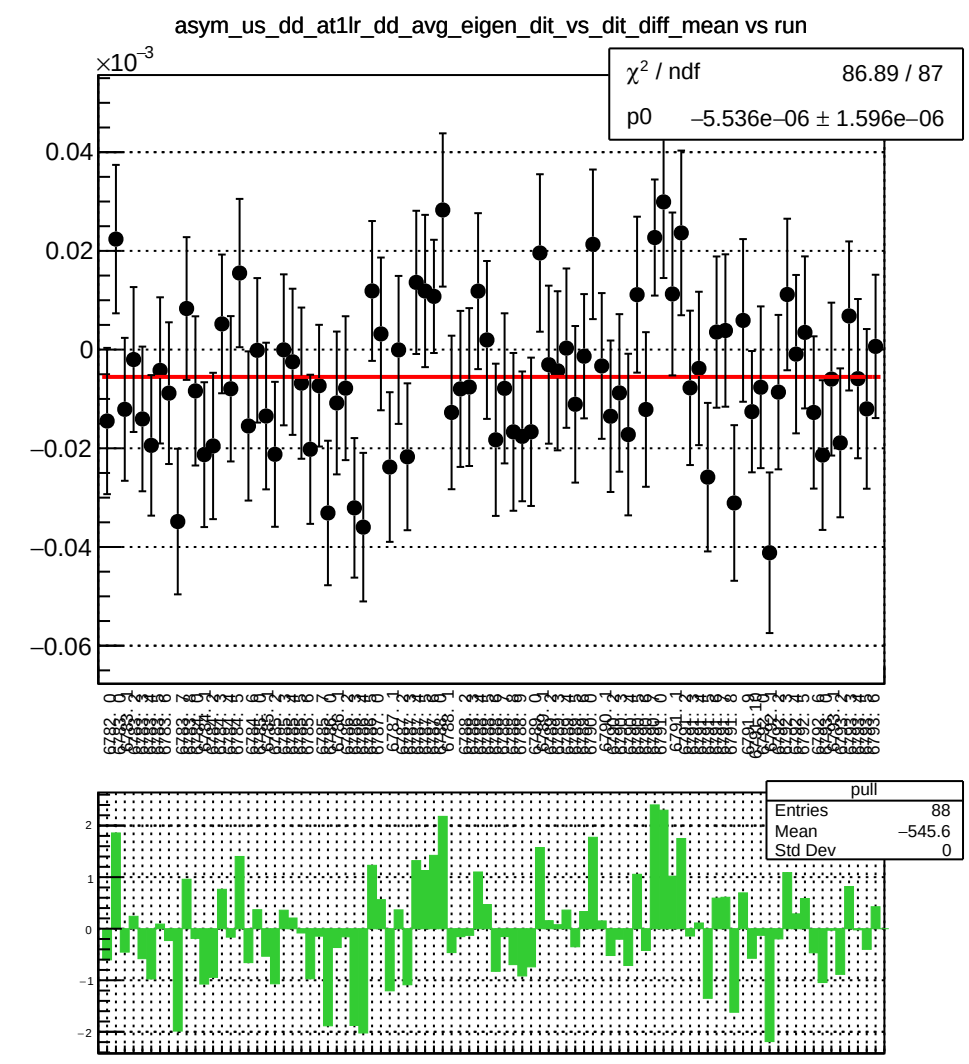

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.28 / 87
p0 0.02073 ± 0.03941
pull
Entries 88
Mean 5.135
Std Dev 0

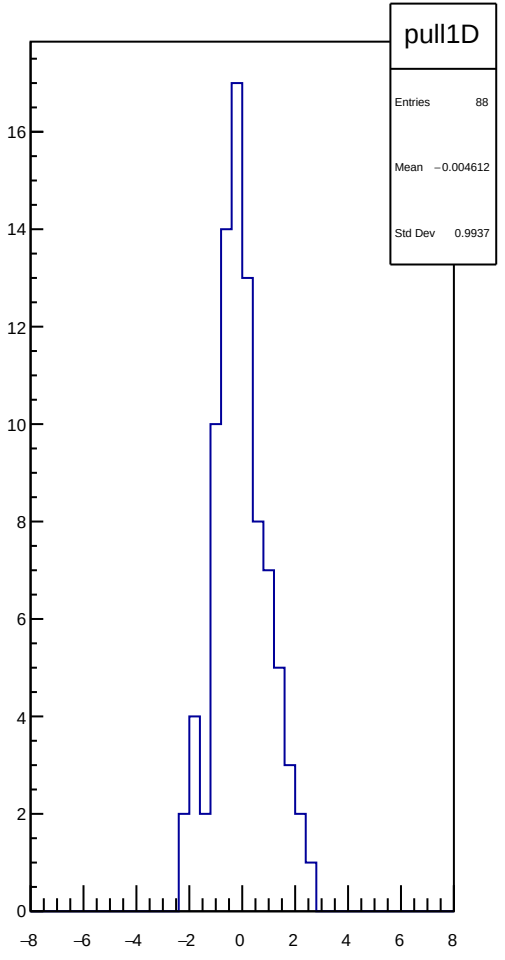

pull1D
Entries 88
Mean −0.1102
Std Dev 1.051

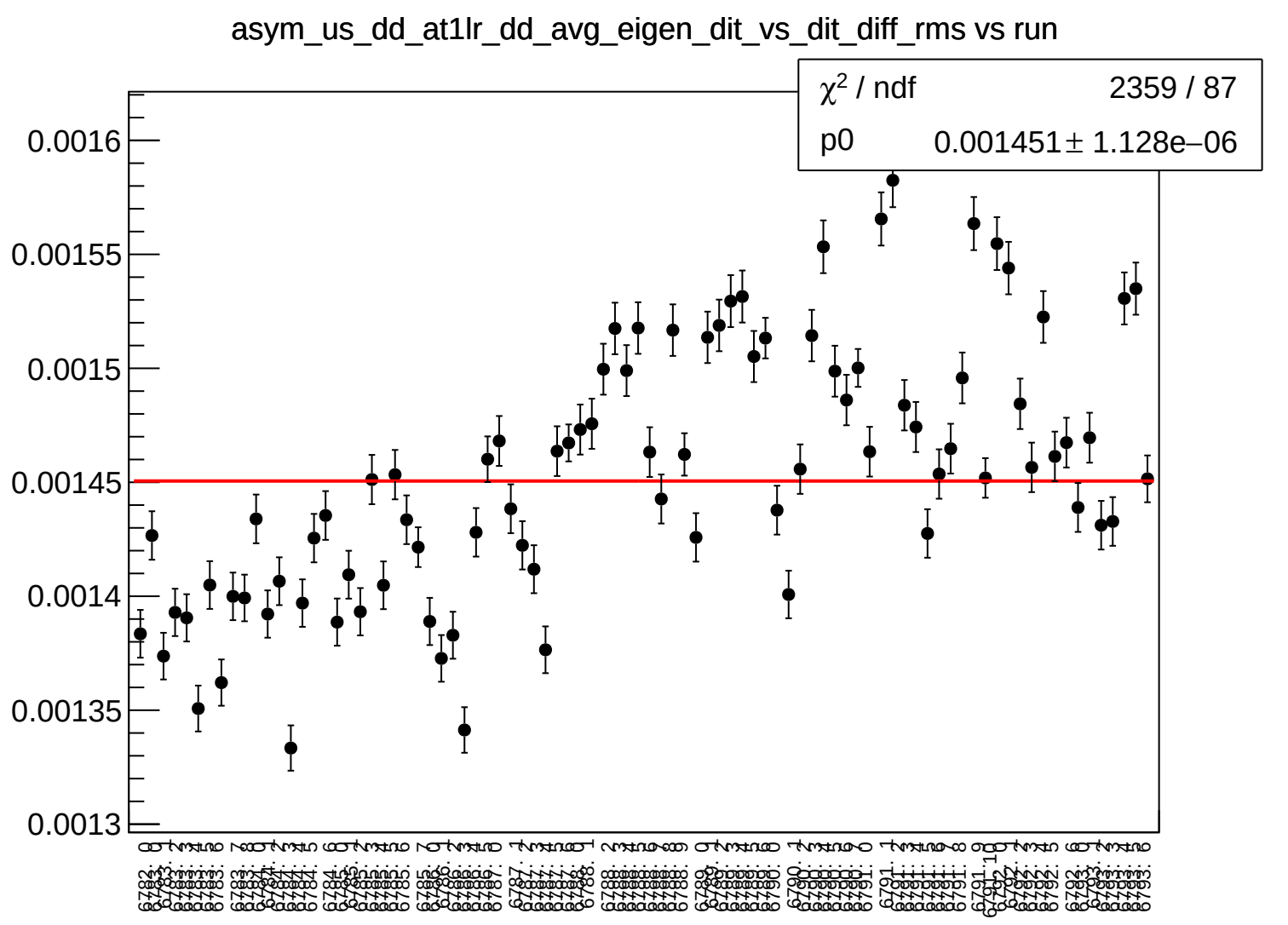

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.7e+05 / 87
p0 31.59 ± 0.02787
100
80
60
40
20

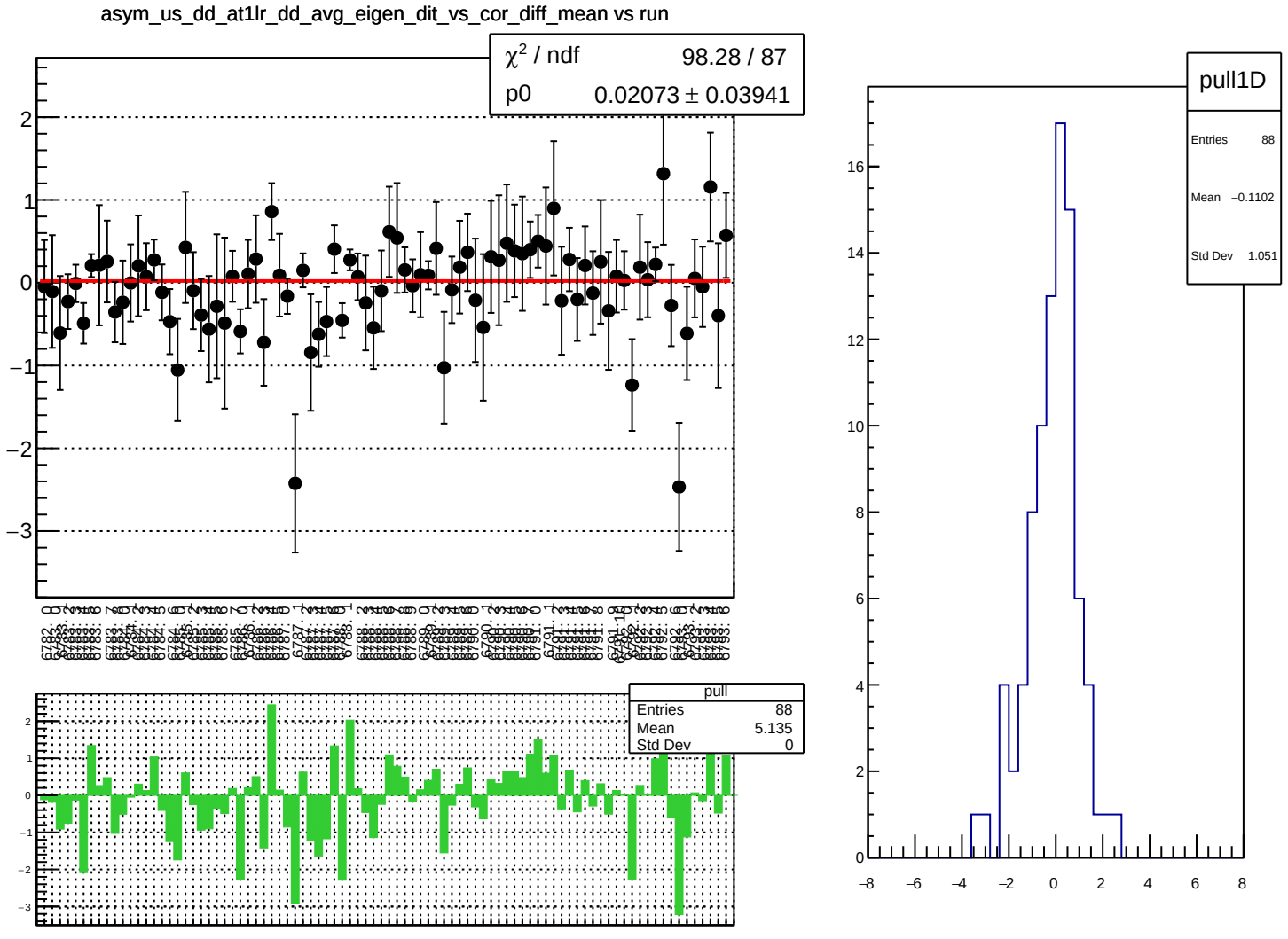

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.28 / 87
p0 0.02073 ± 0.03941
pull
Entries 88
Mean 5.135
Std Dev 0
pull1D
Entries 88
Mean −0.1102
Std Dev 1.051

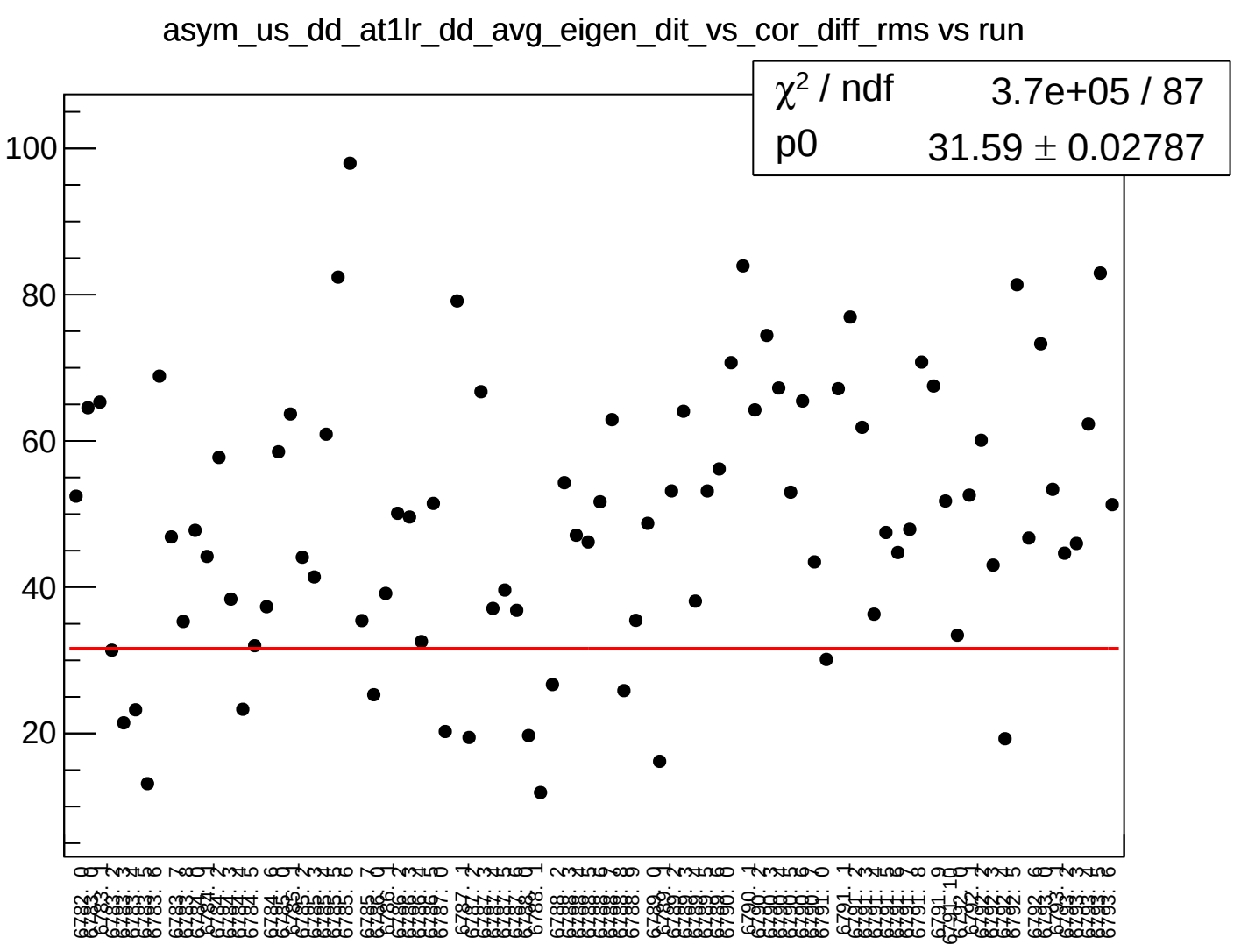

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.7e+05 / 87
p0 31.59 ± 0.02787
100
80
60
40
20

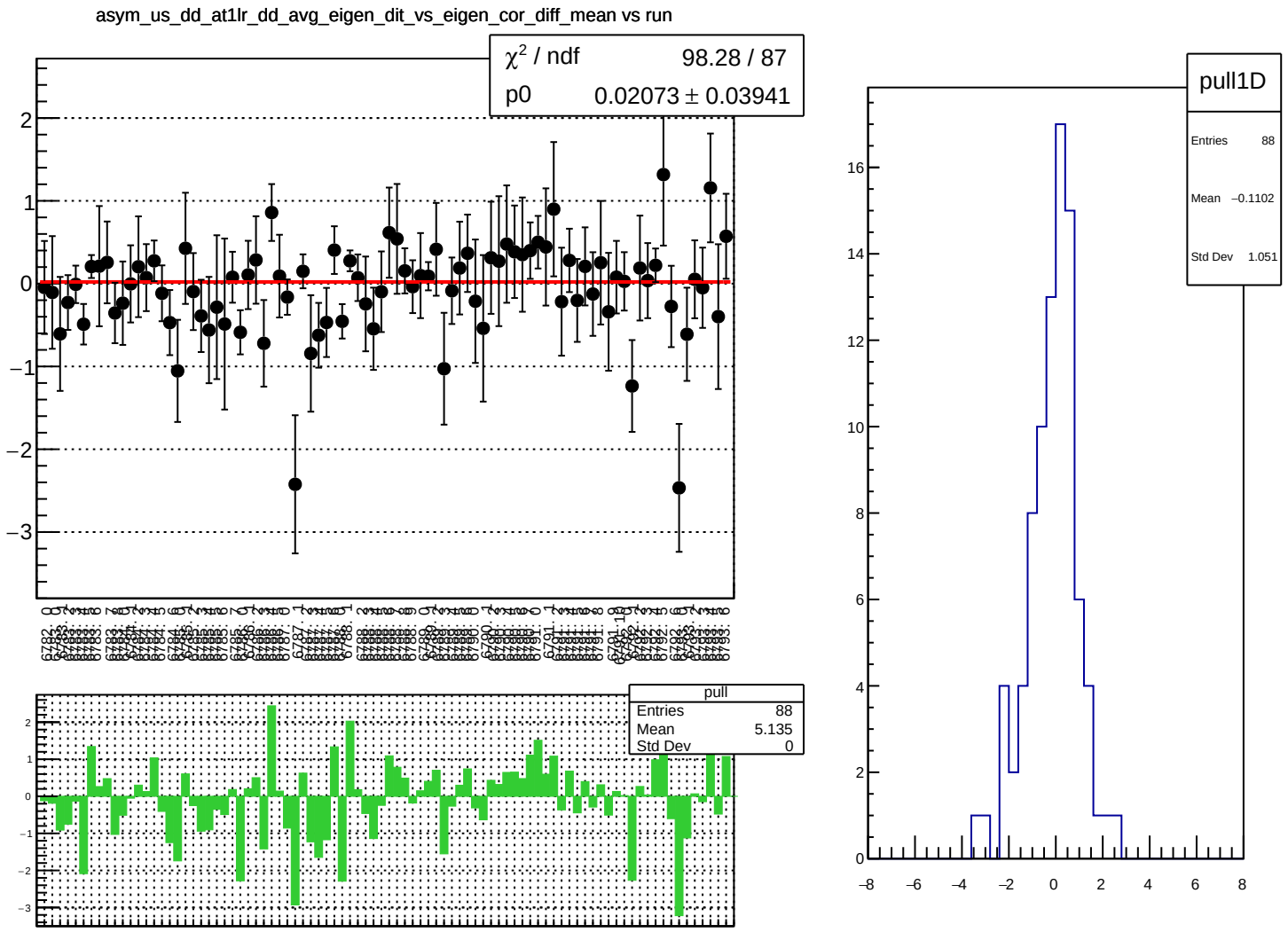

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.89 / 87
p0 −5.536e−06 ± 1.596e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −545.6
Std Dev 0
2
1
0
−1
−2

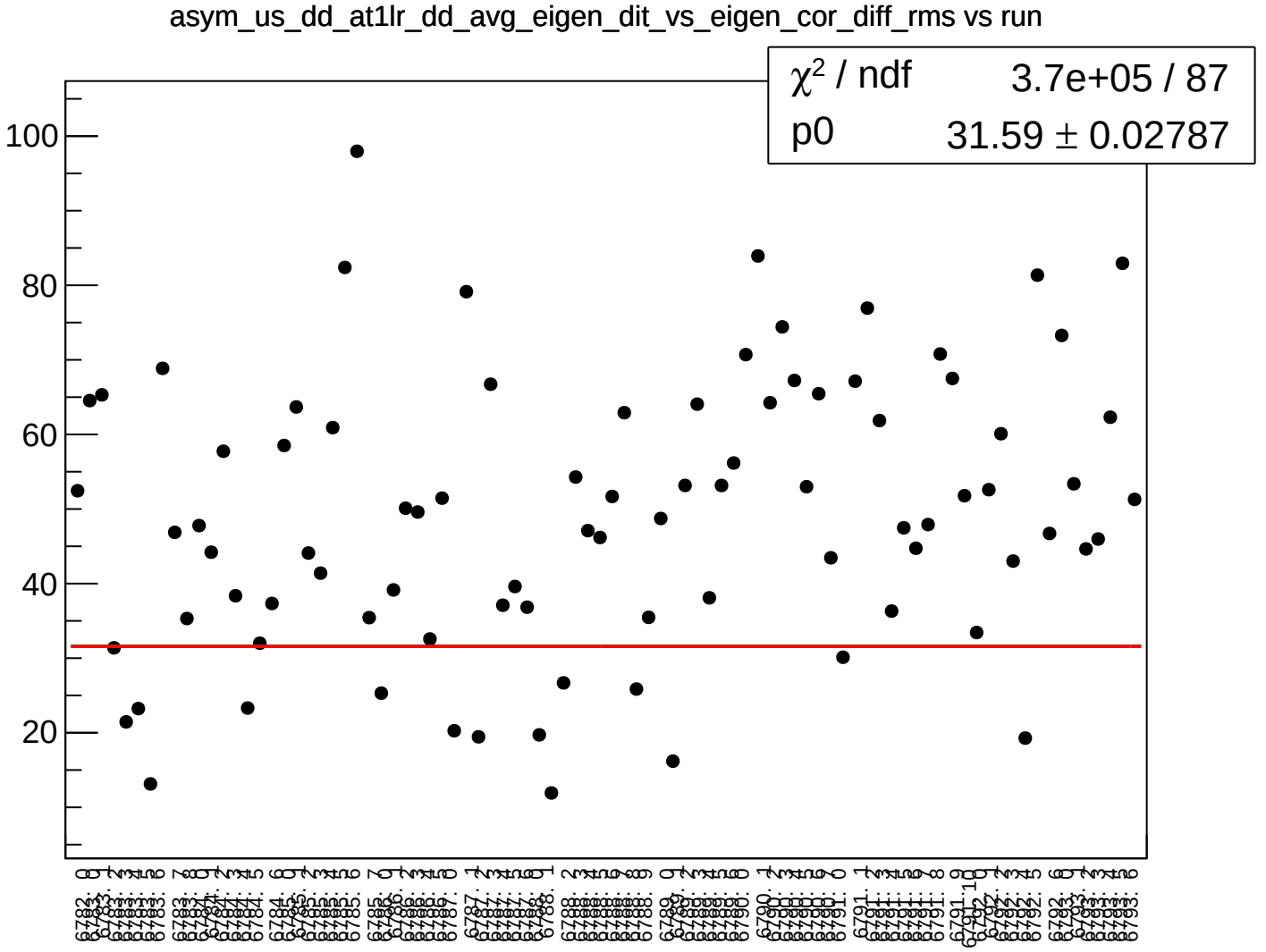

pull1D
Entries 88
Mean −0.004612
Std Dev 0.9937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

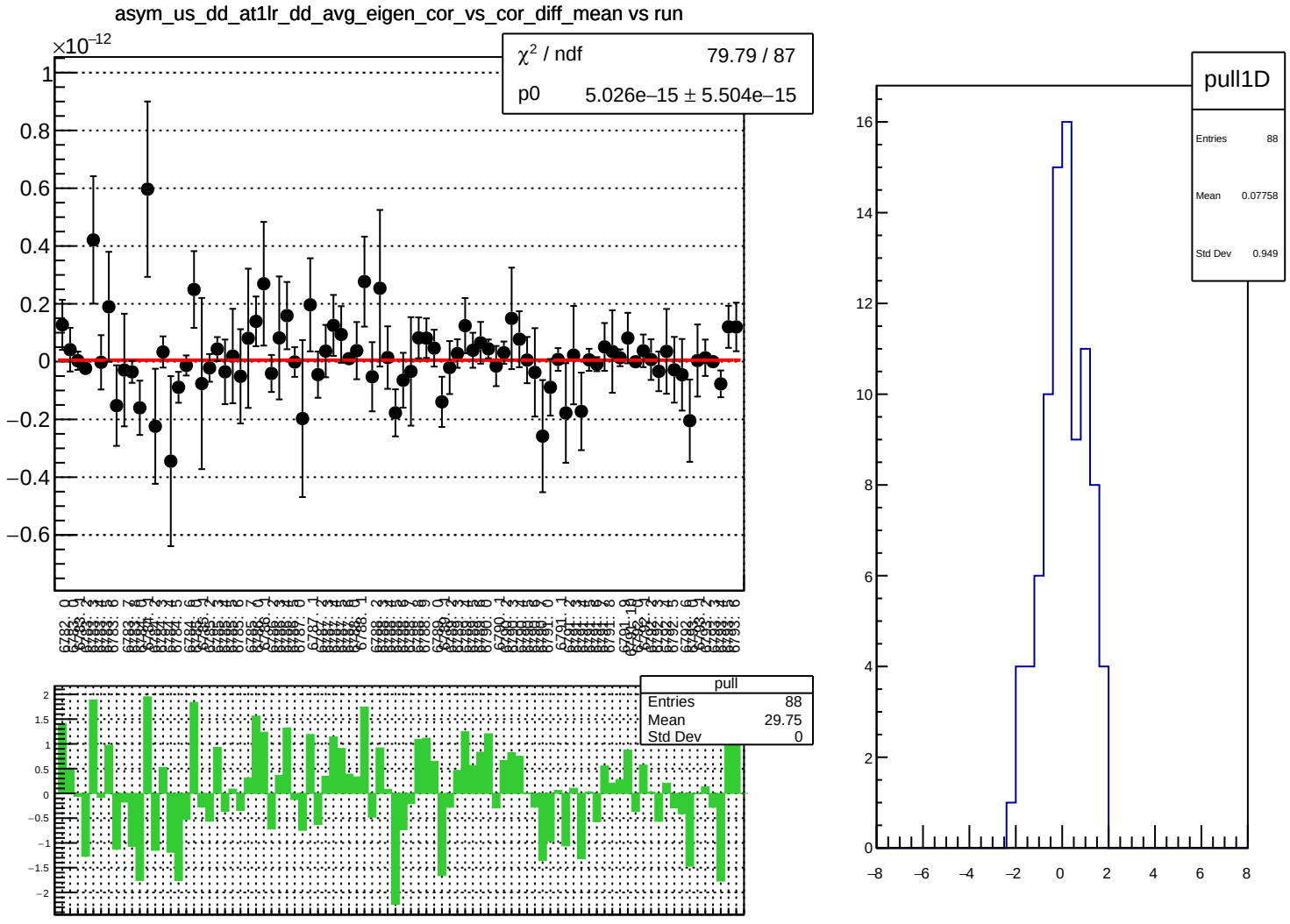

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2359 / 87
p0 0.001451 ± 1.128e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013

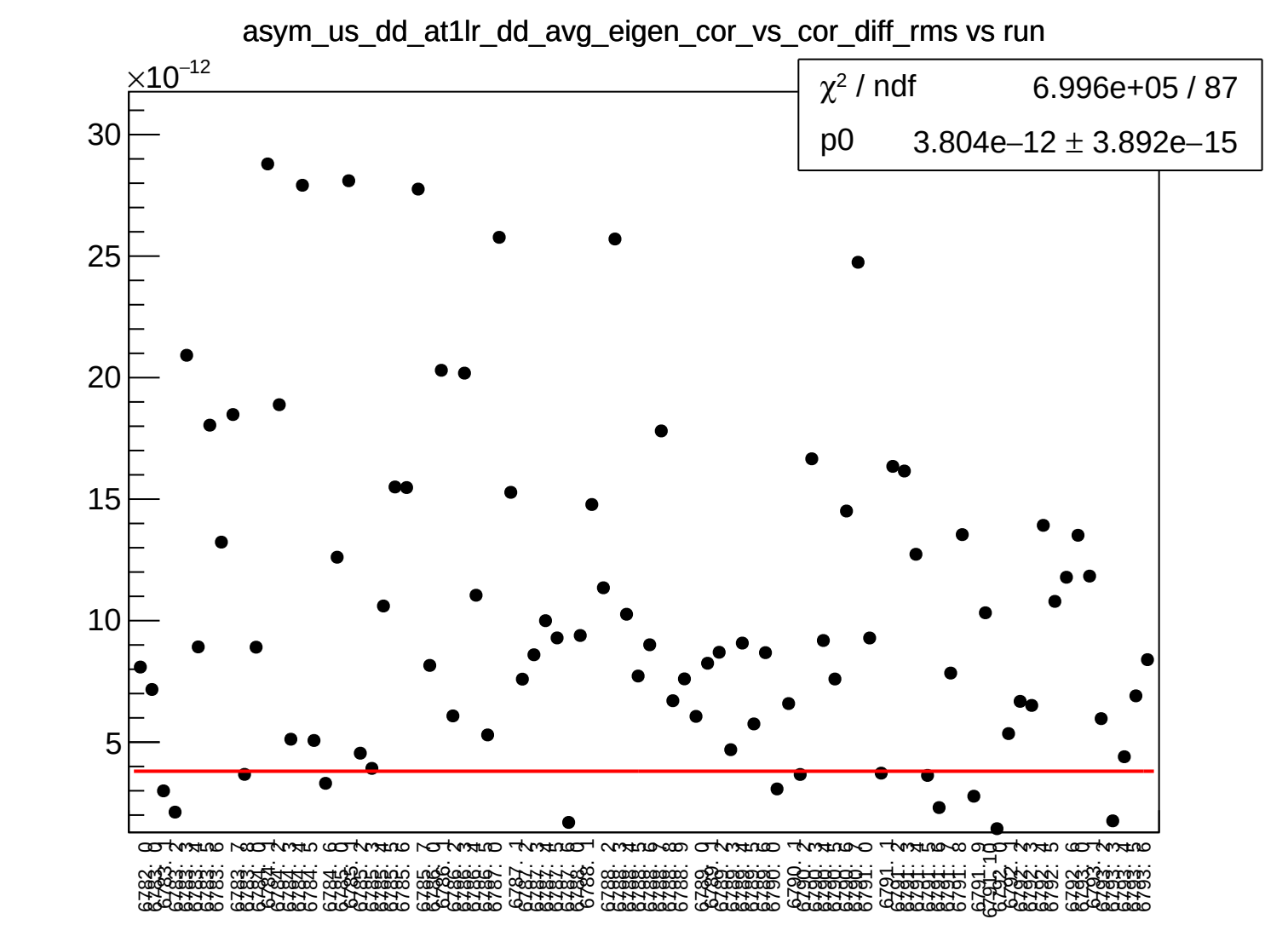

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.28 / 87
p0 0.02073 ± 0.03941
pull
Entries 88
Mean 5.135
Std Dev 0
pull1D
Entries 88
Mean −0.1102
Std Dev 1.051

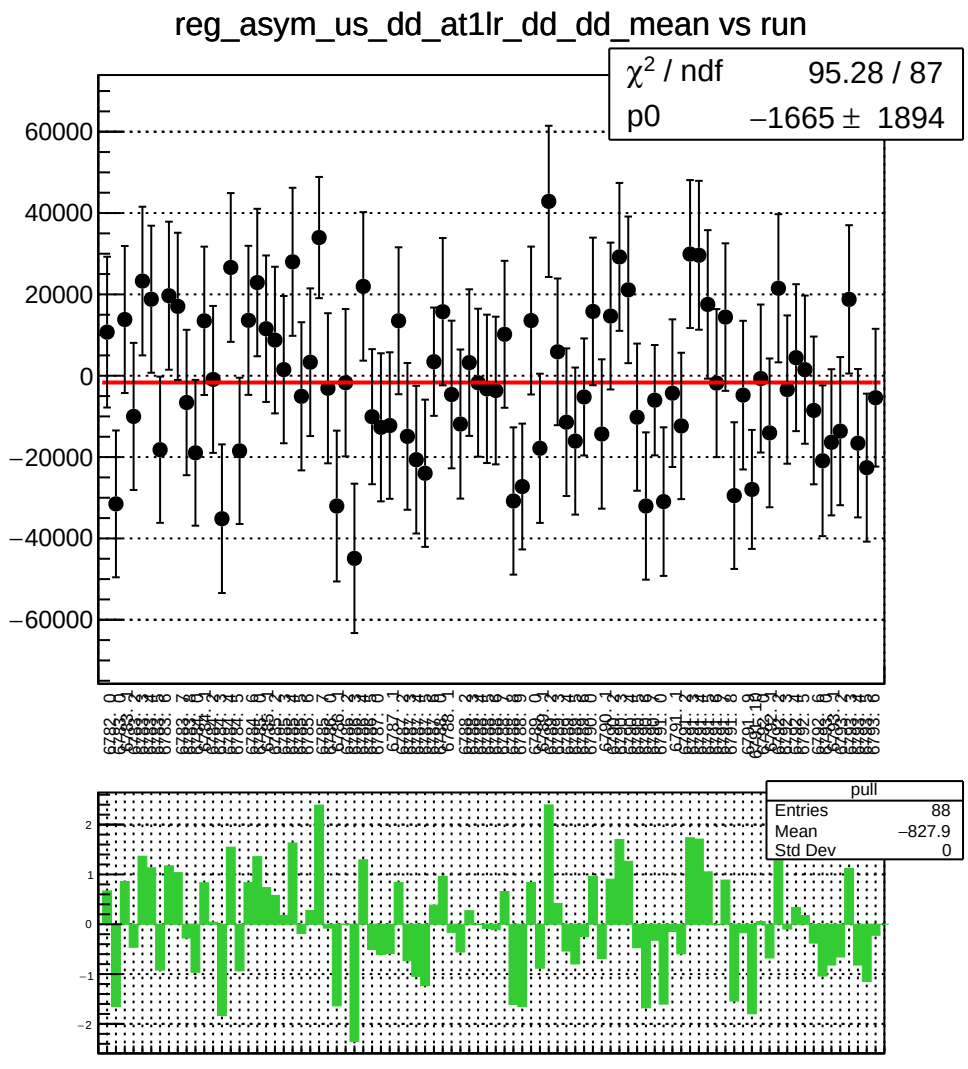

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.7e+05 / 87
p0 31.59 ± 0.02787
100
80
60
40
20

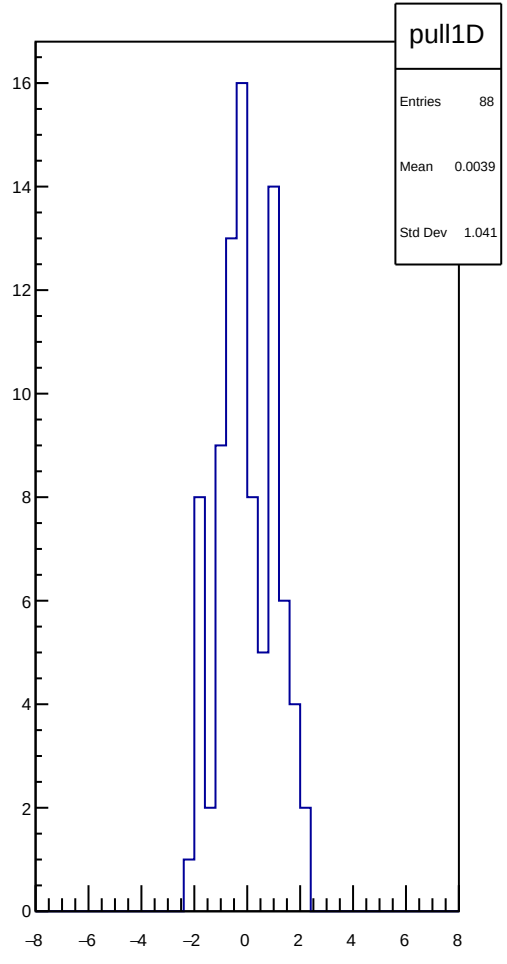

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.28 / 87
p0 0.02073 ± 0.03941
pull
Entries 88
Mean 5.135
Std Dev 0
pull1D
Entries 88
Mean −0.1102
Std Dev 1.051

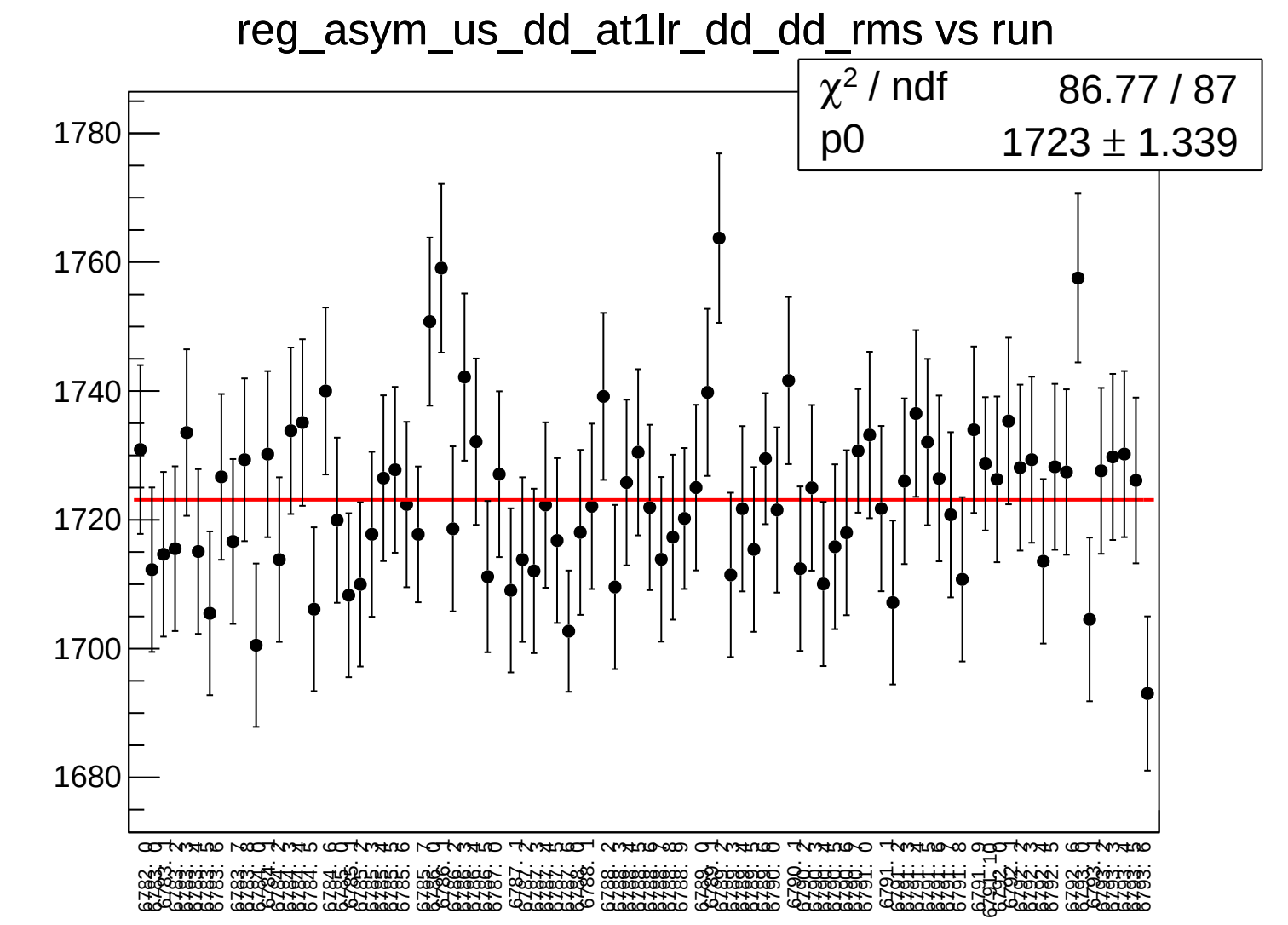

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.7e+05 / 87
p0 31.59 ± 0.02787
100
80
60
40
20

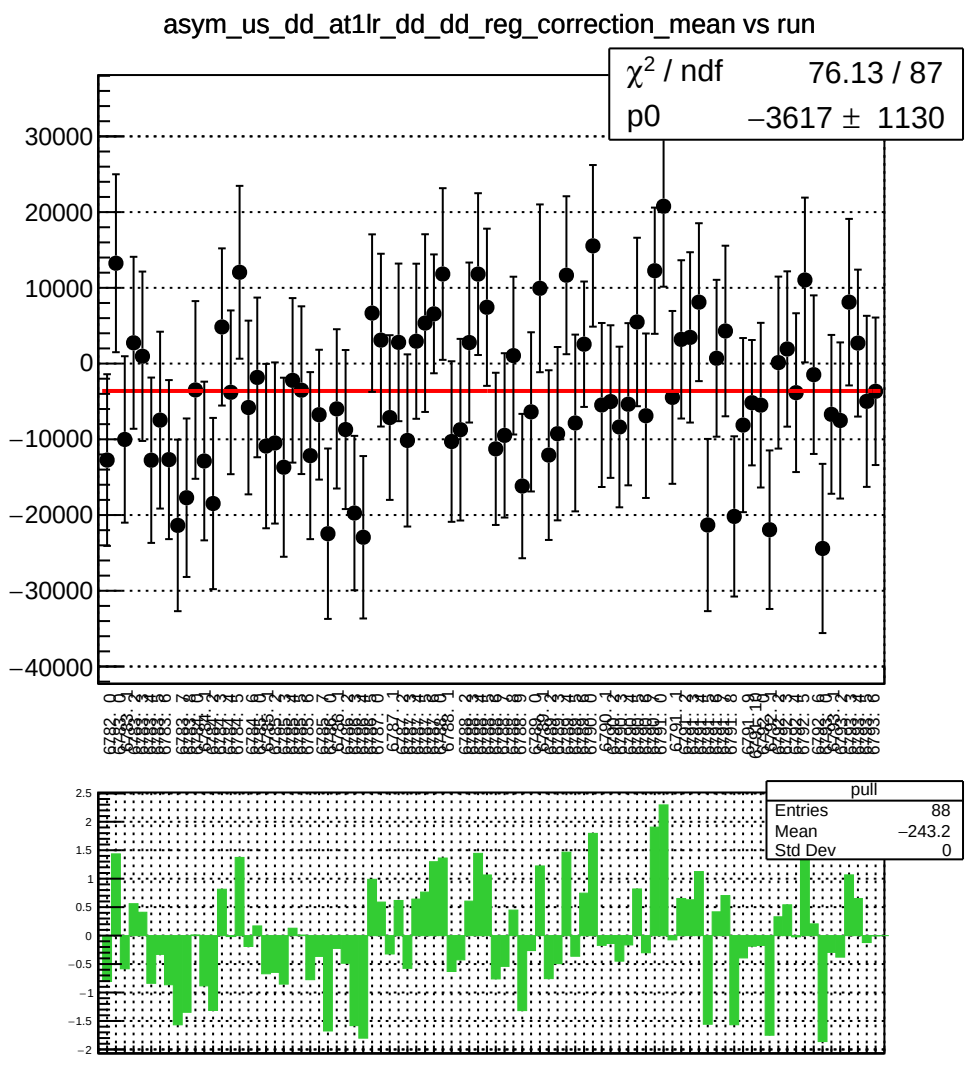

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.79 / 87
p0 5.026e−15 ± 5.504e−15
pull
Entries 88
Mean 29.75
Std Dev 0
pull1D
Entries 88
Mean 0.07758
Std Dev 0.949

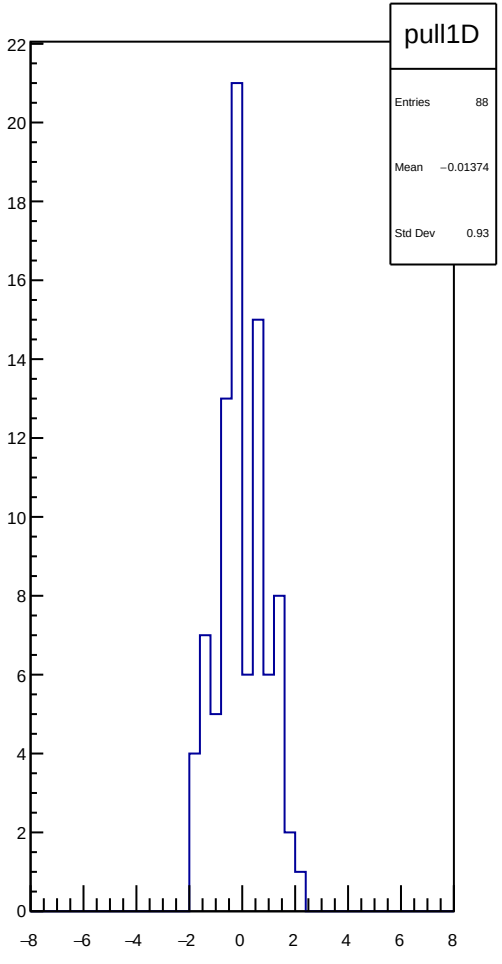

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.996e+05 / 87
p0 3.804e−12 ± 3.892e−15
30
25
20
15
10
5

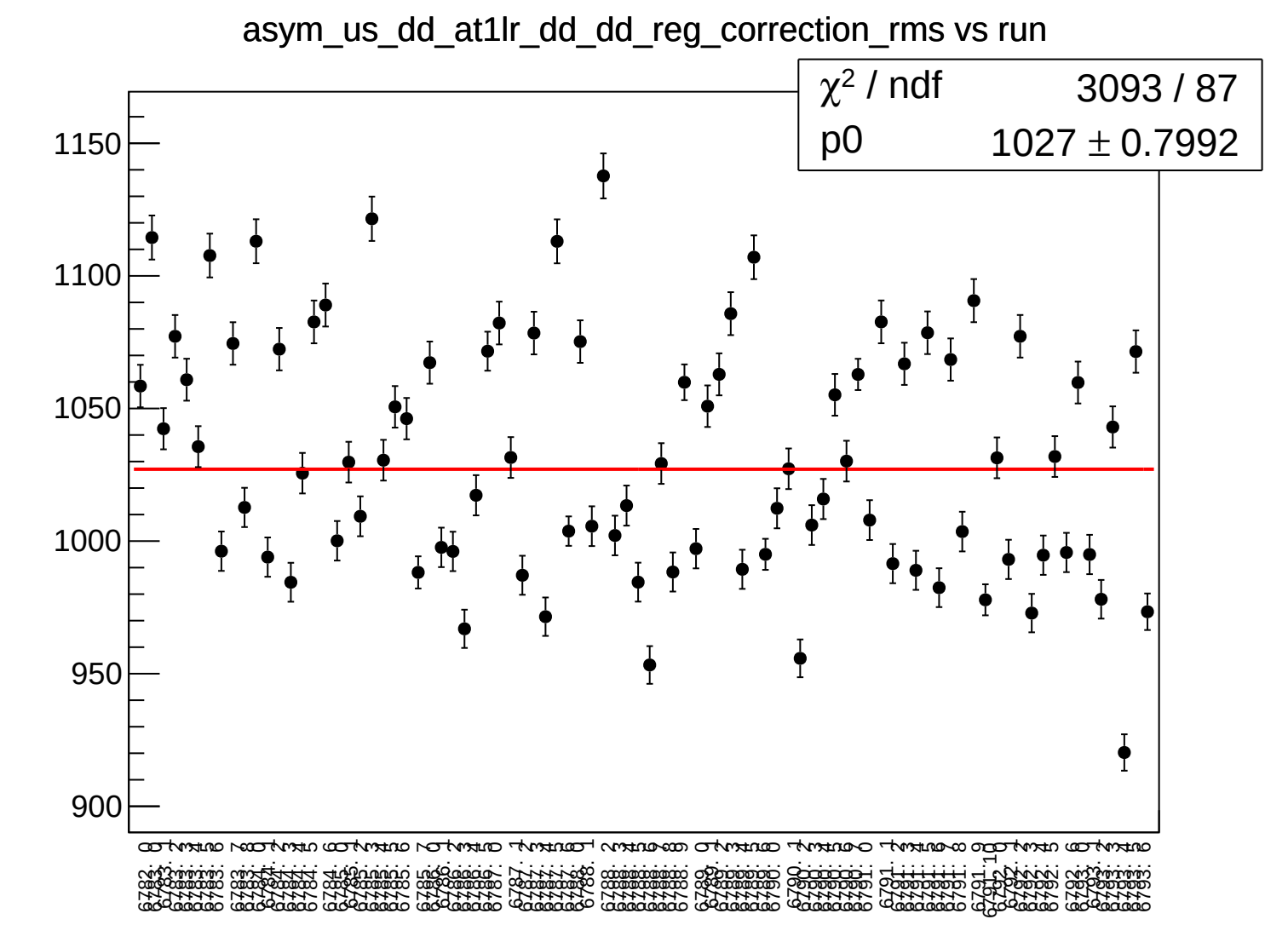

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.28 / 87
p0 −1665 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −827.9
Std Dev 0
2
1
0
−1
−2

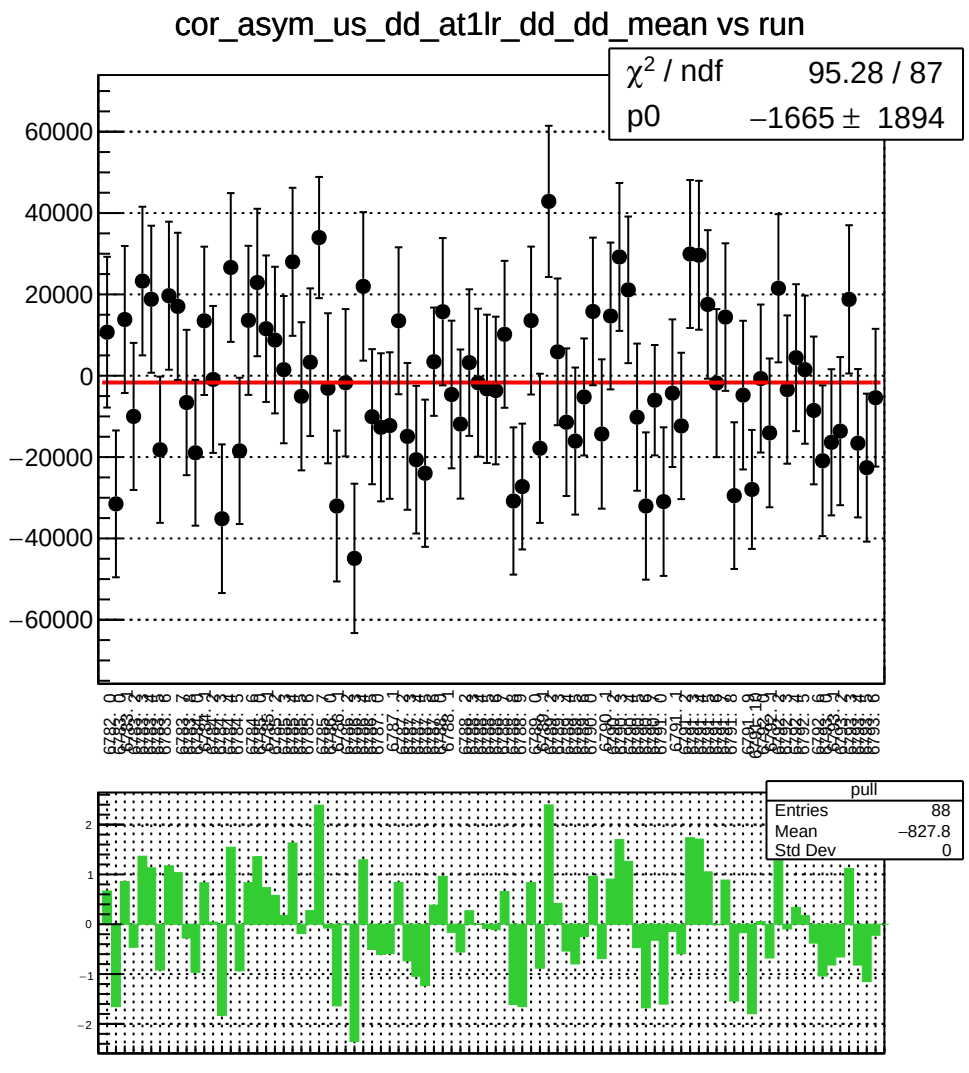

pull1D
Entries 88
Mean 0.0039
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

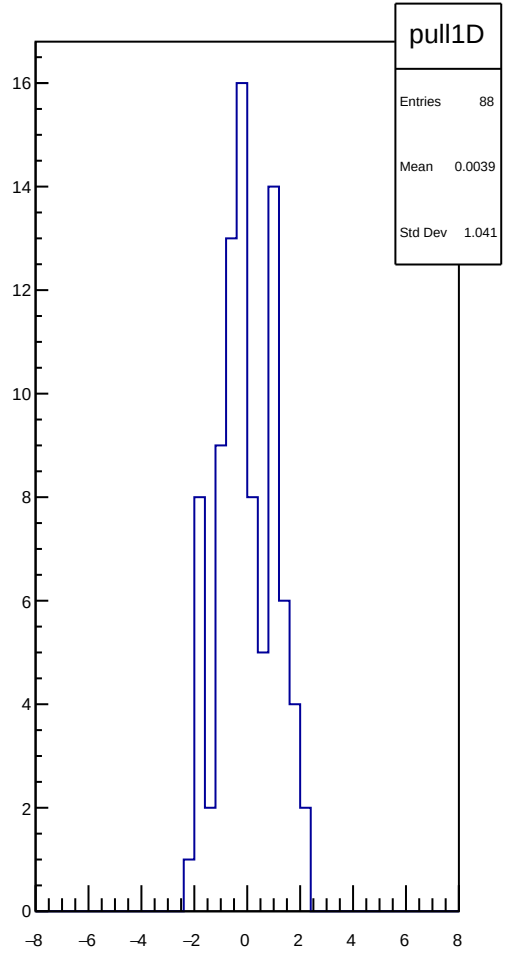

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 86.77 / 87
p0 1723 ± 1.339
1780
1760
1740
1720
1700
1680

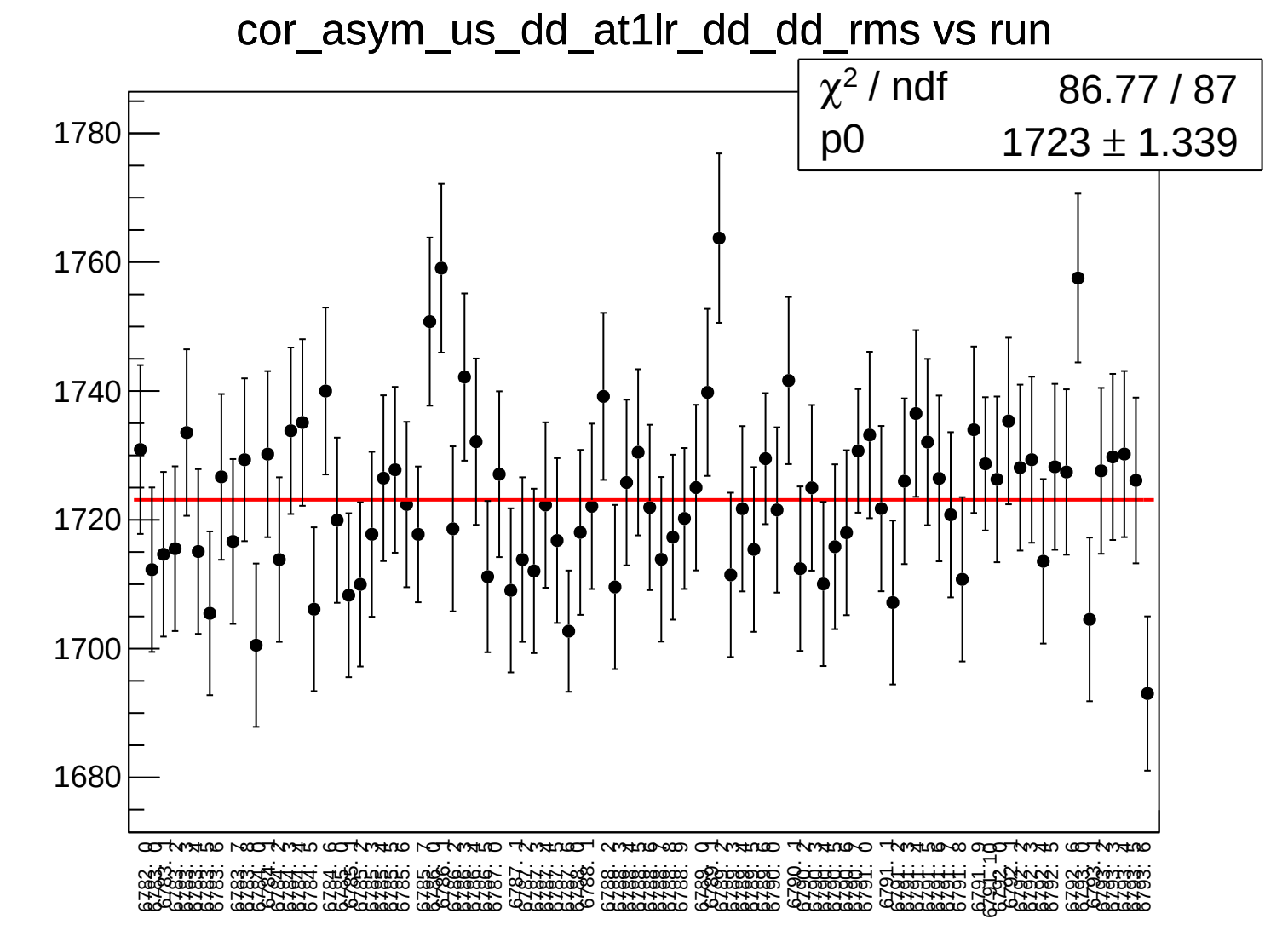

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 76.13 / 87
p0 −3617 ± 1130
pull
Entries 88
Mean −243.2
Std Dev 0

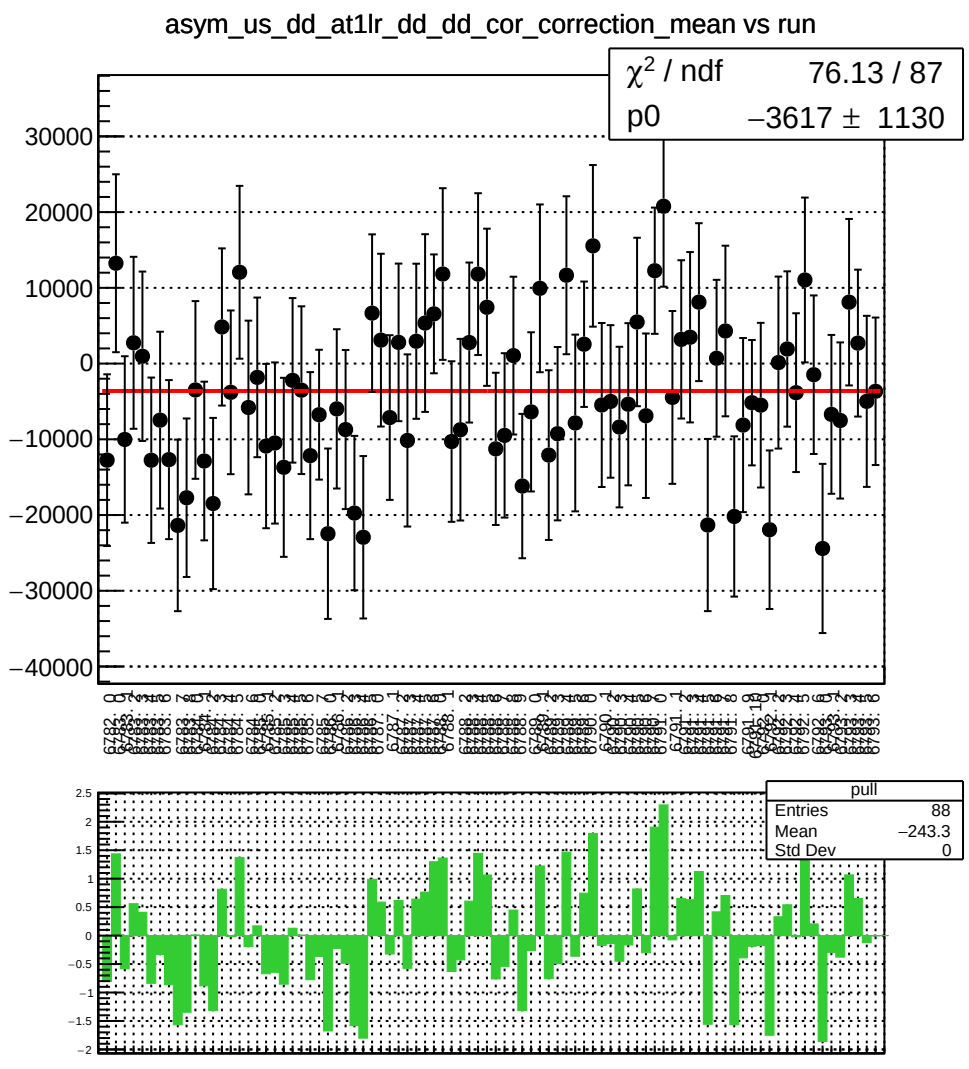

pull1D
Entries 88
Mean −0.01374
Std Dev 0.93

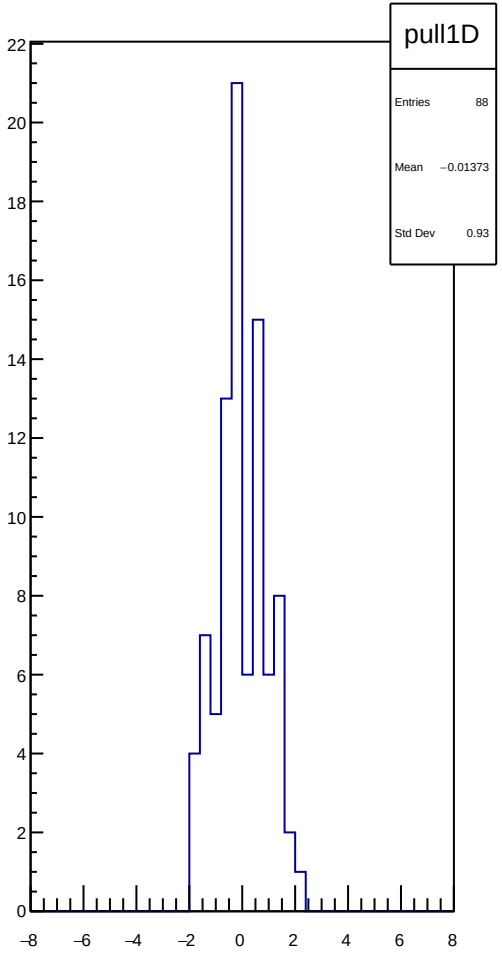

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3093 / 87
p0 1027 ± 0.7992
1150
1100
1050
1000
950
900

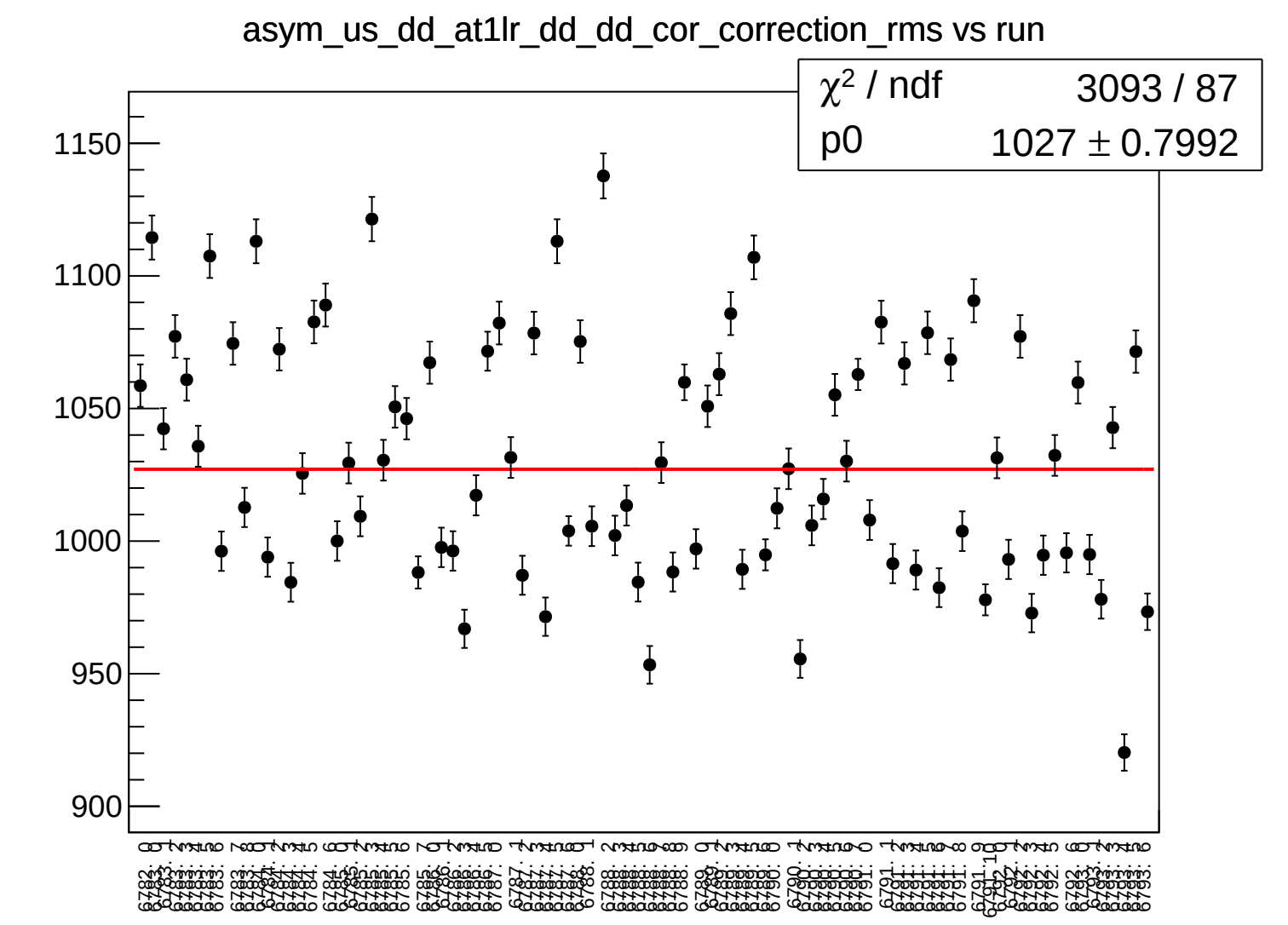

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.28 / 87
p0 −1665 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −827.8
Std Dev 0
2
1
0
−1
−2

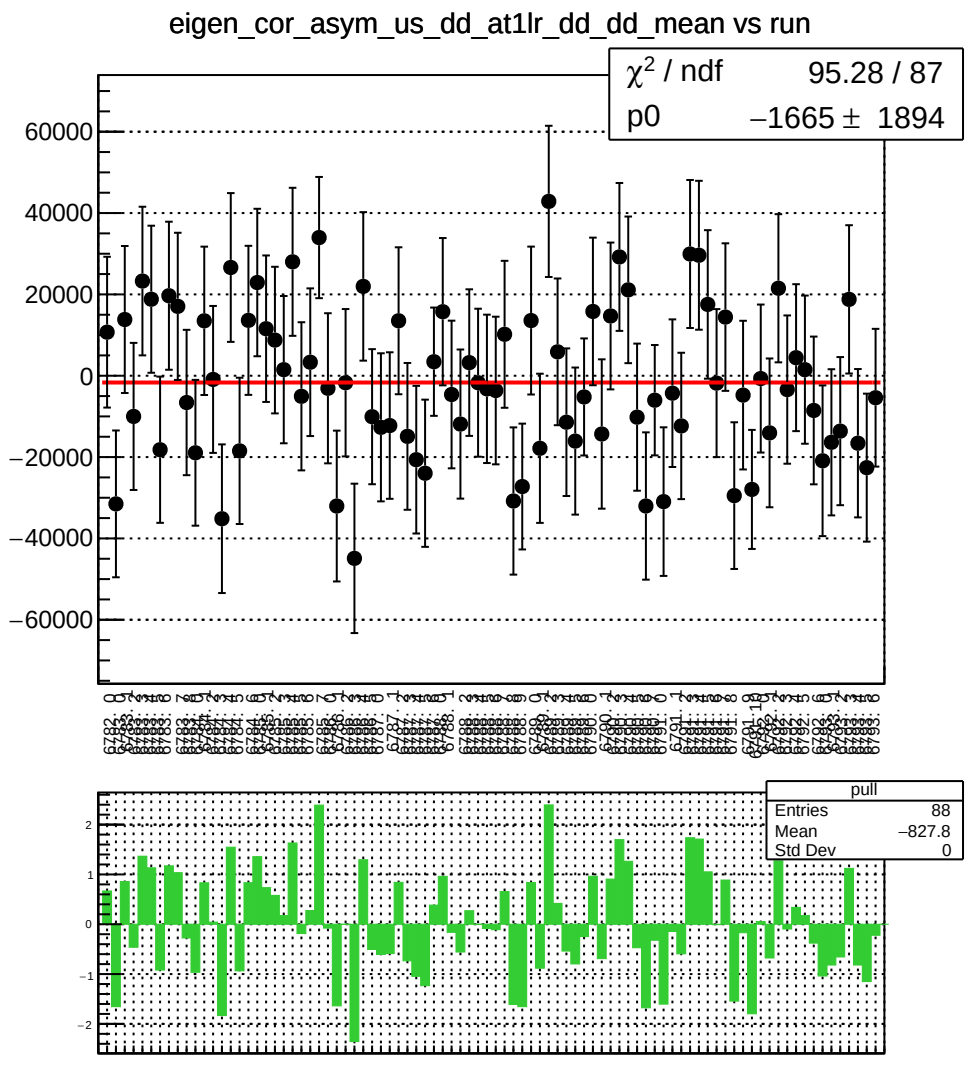

pull1D
Entries 88
Mean 0.0039
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

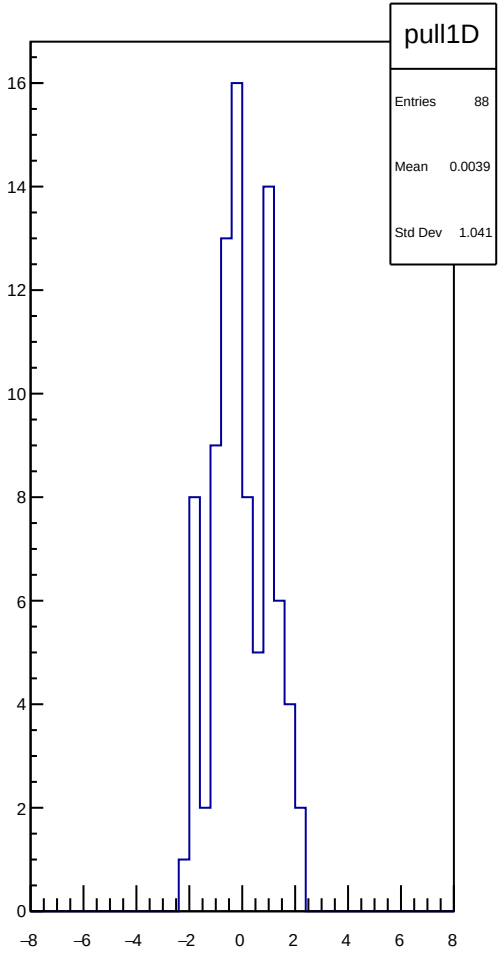

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 86.77 / 87
p0 1723 ± 1.339
1780
1760
1740
1720
1700
1680

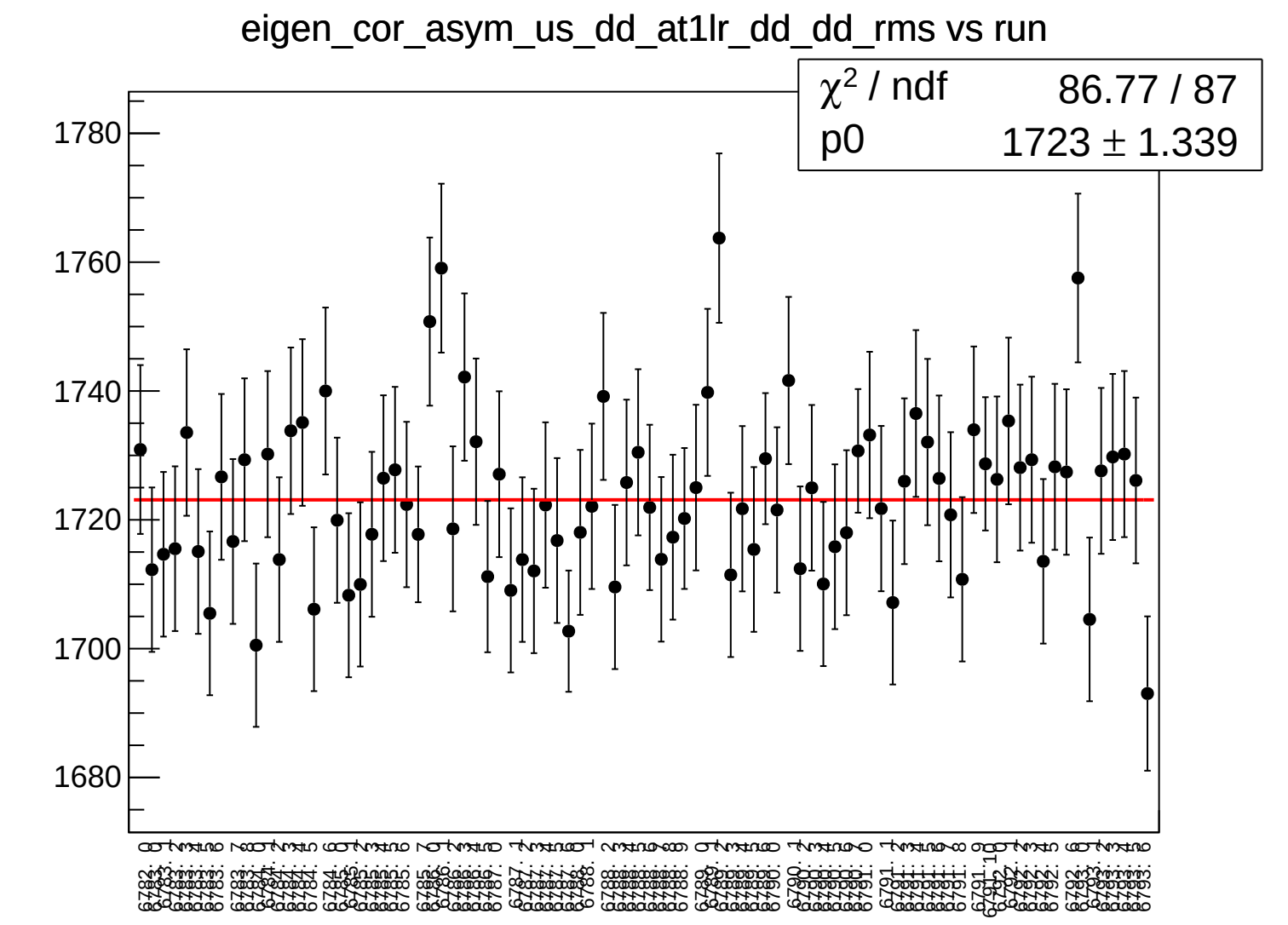

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 76.13 / 87
p0 −3617 ± 1130
pull
Entries 88
Mean −243.3
Std Dev 0

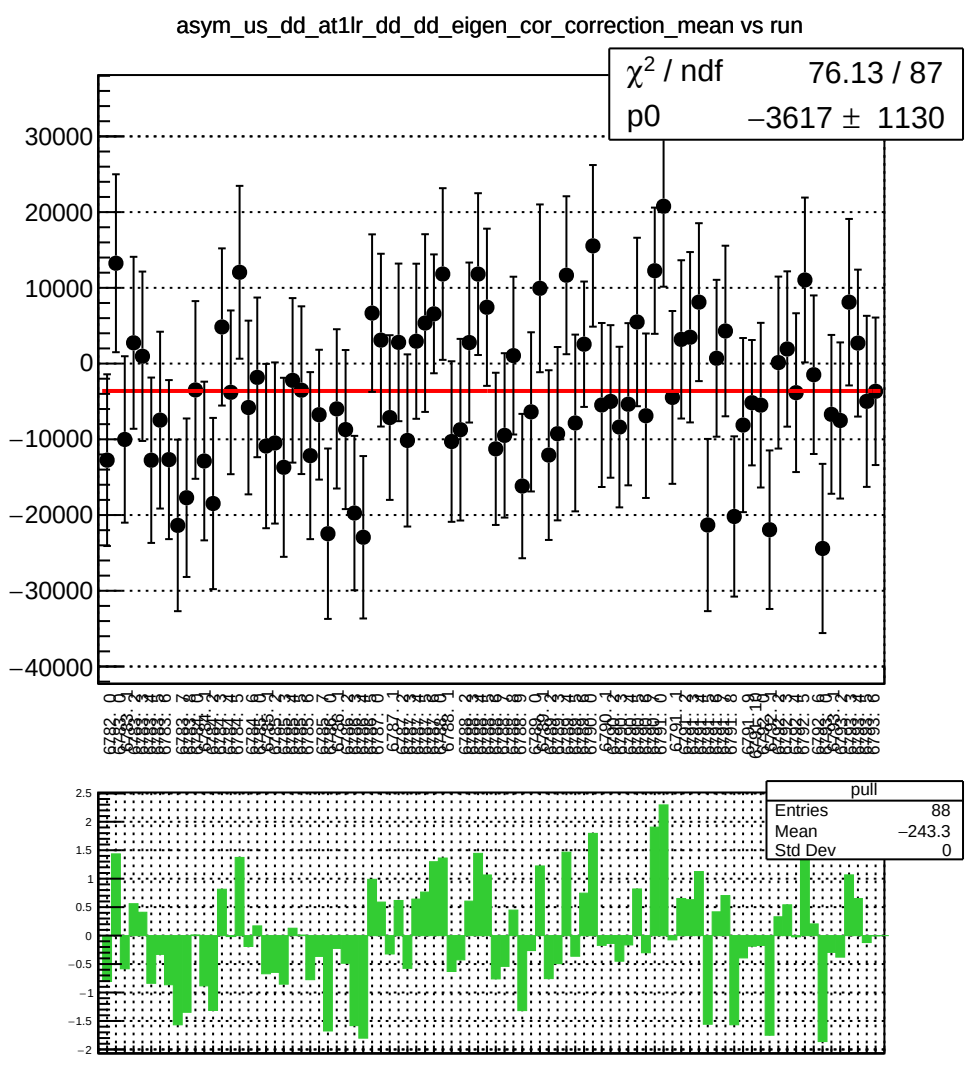

pull1D
Entries 88
Mean −0.01373
Std Dev 0.93

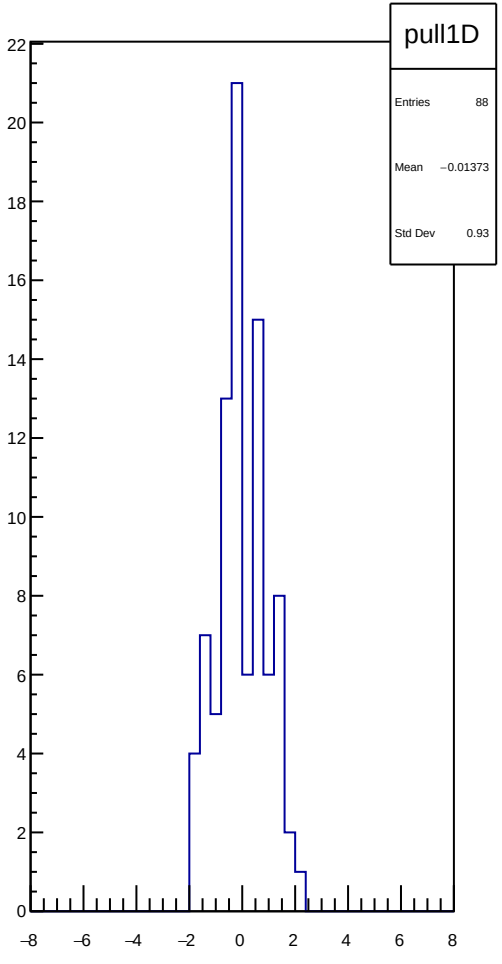

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3093 / 87
p0 1027 ± 0.7992
1150
1100
1050
1000
950
900

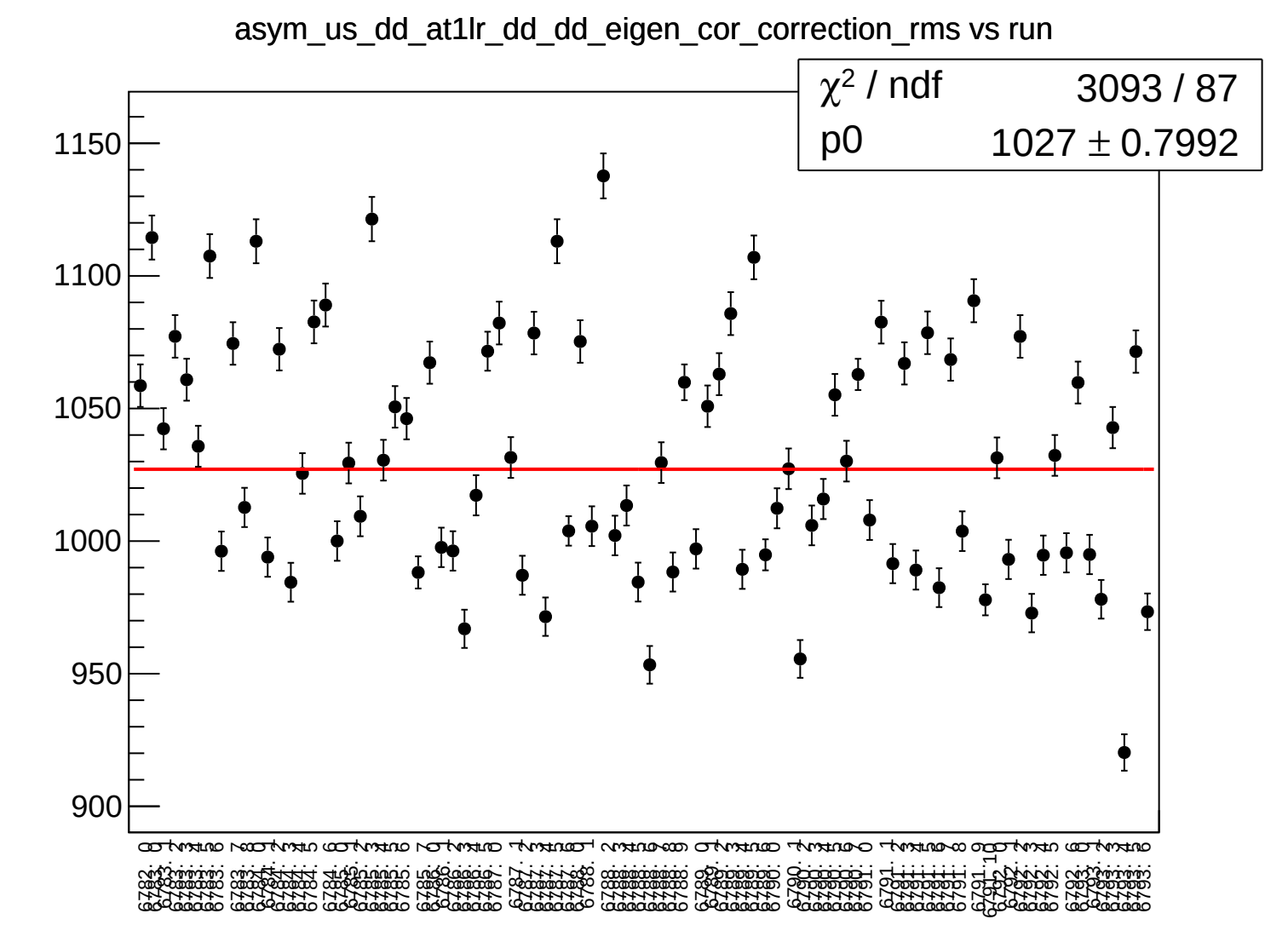

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.28 / 87
p0 −1665 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −827.8
Std Dev 0
2
1
0
−1
−2

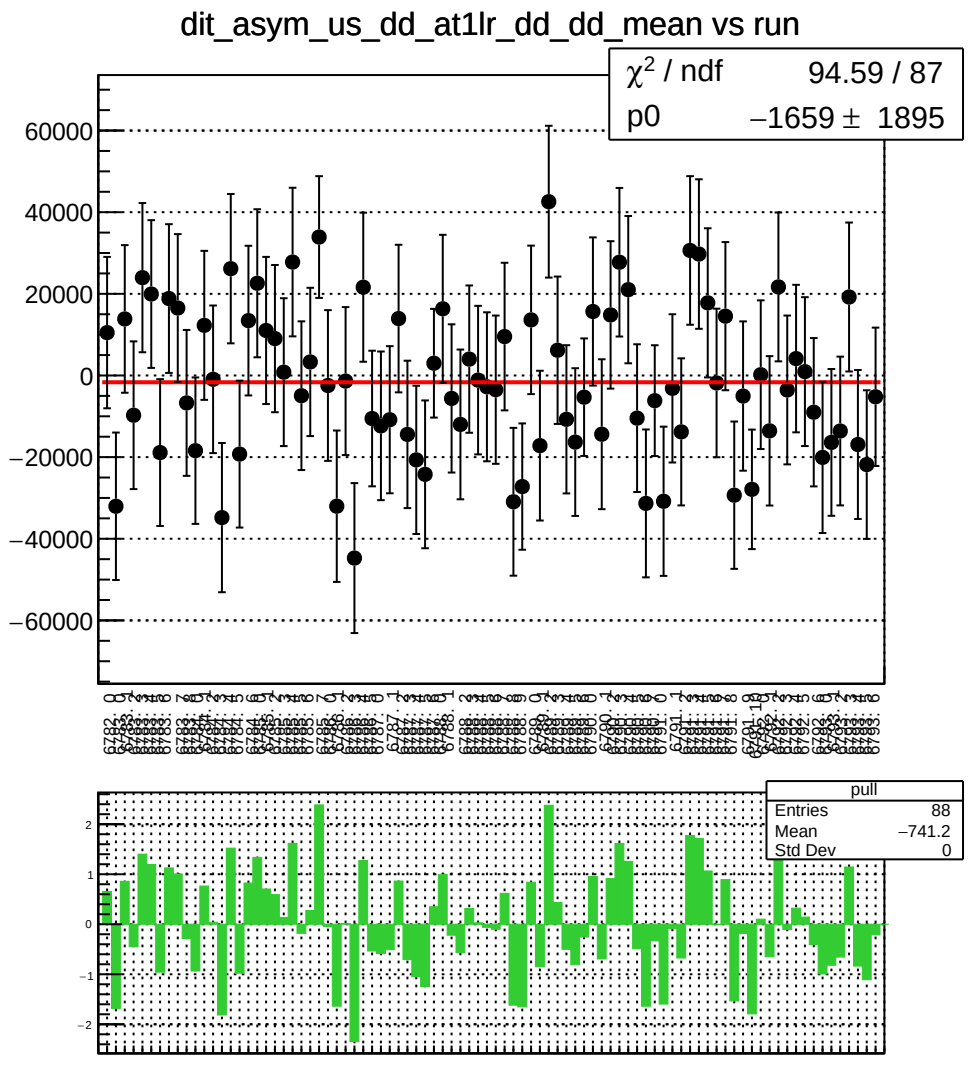

pull1D
Entries 88
Mean 0.0039
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

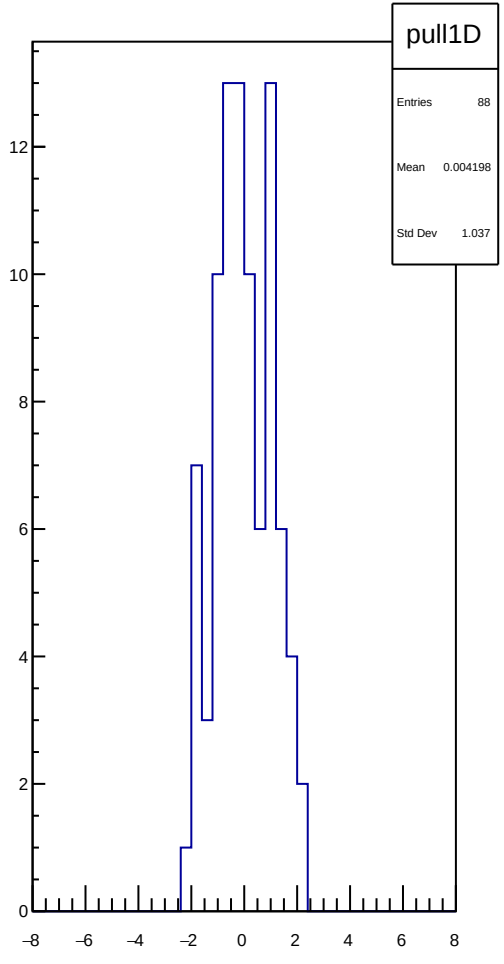

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 86.77 / 87
p0 1723 ± 1.339
1780
1760
1740
1720
1700
1680

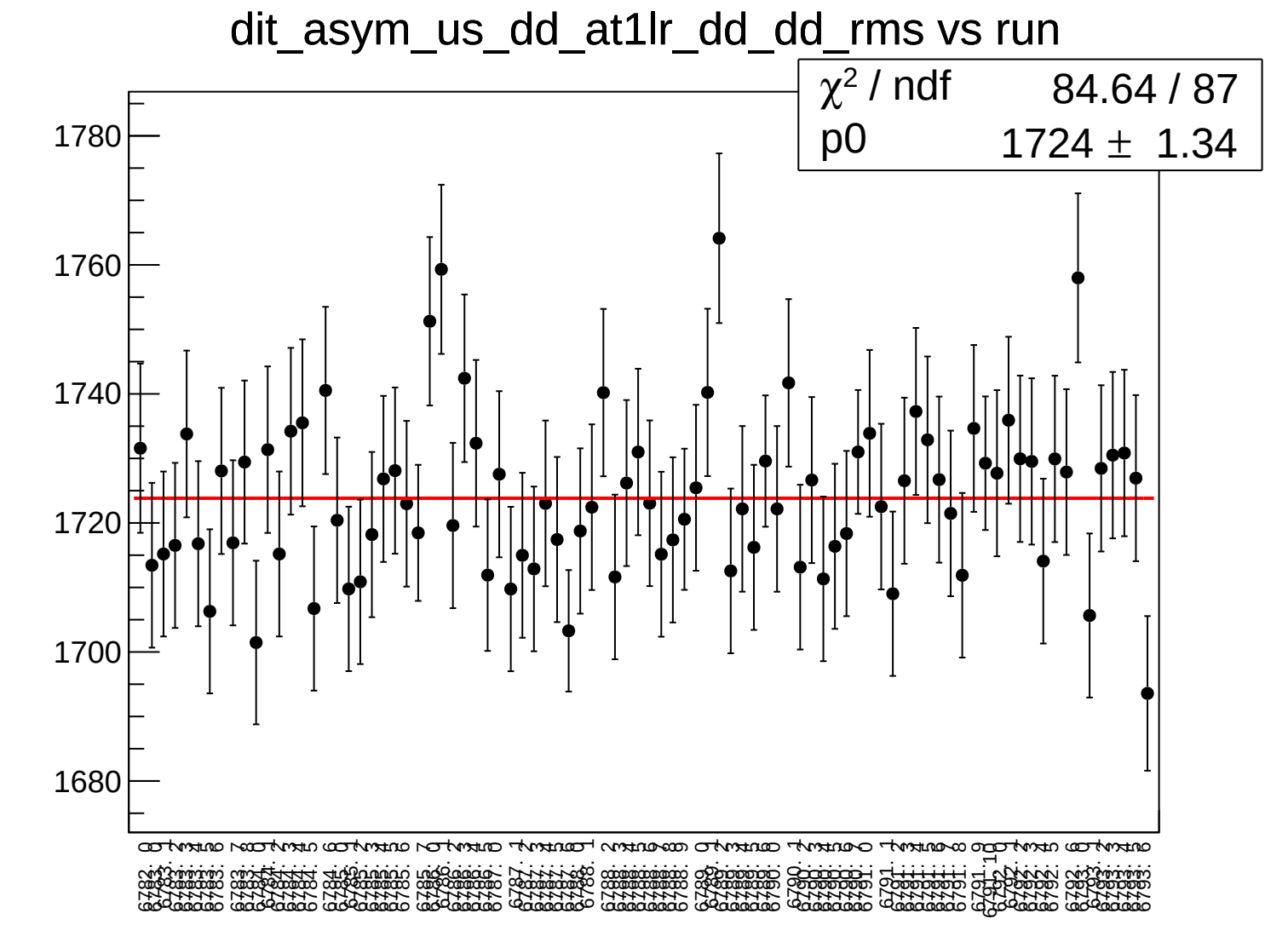

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.13 / 87
p0 −3617 ± 1130
pull
Entries 88
Mean −243.3
Std Dev 0

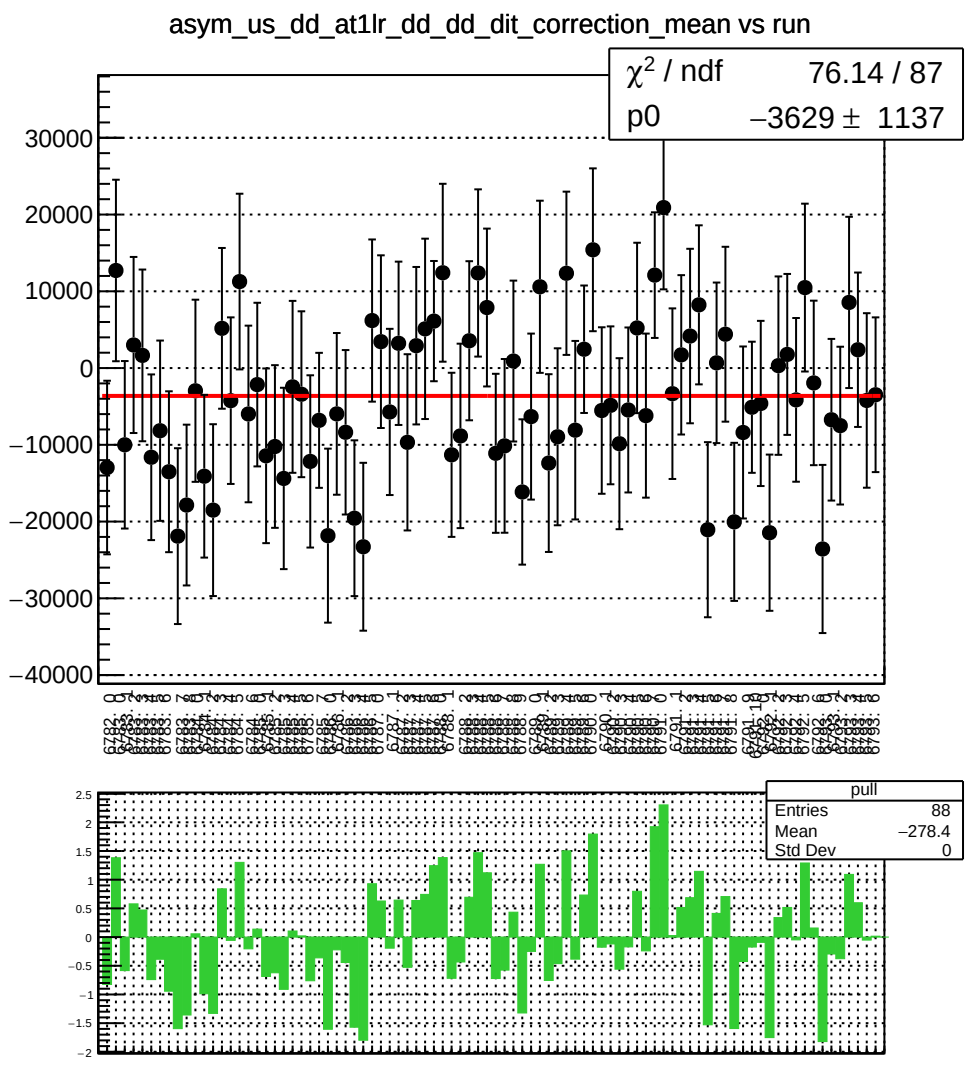

pull1D
Entries 88
Mean −0.01373
Std Dev 0.93

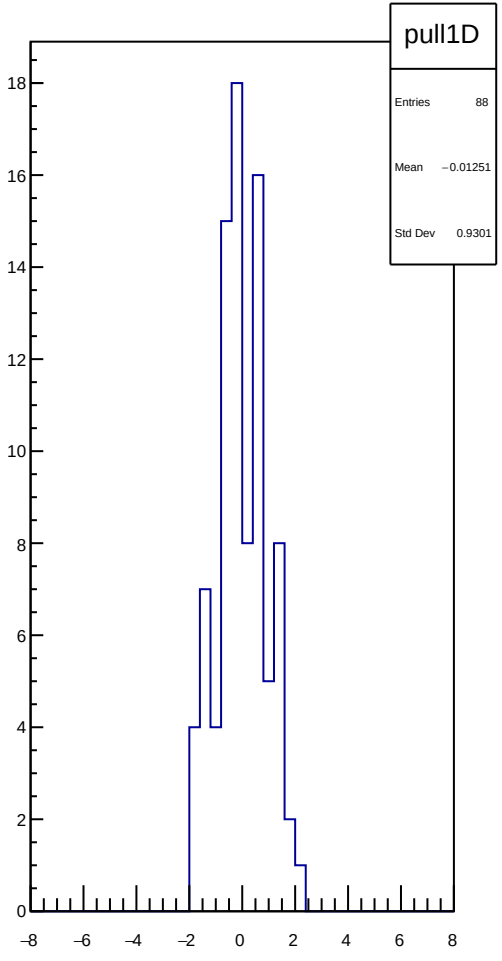

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3093 / 87
p0 1027 ± 0.7992
1150
1100
1050
1000
950
900

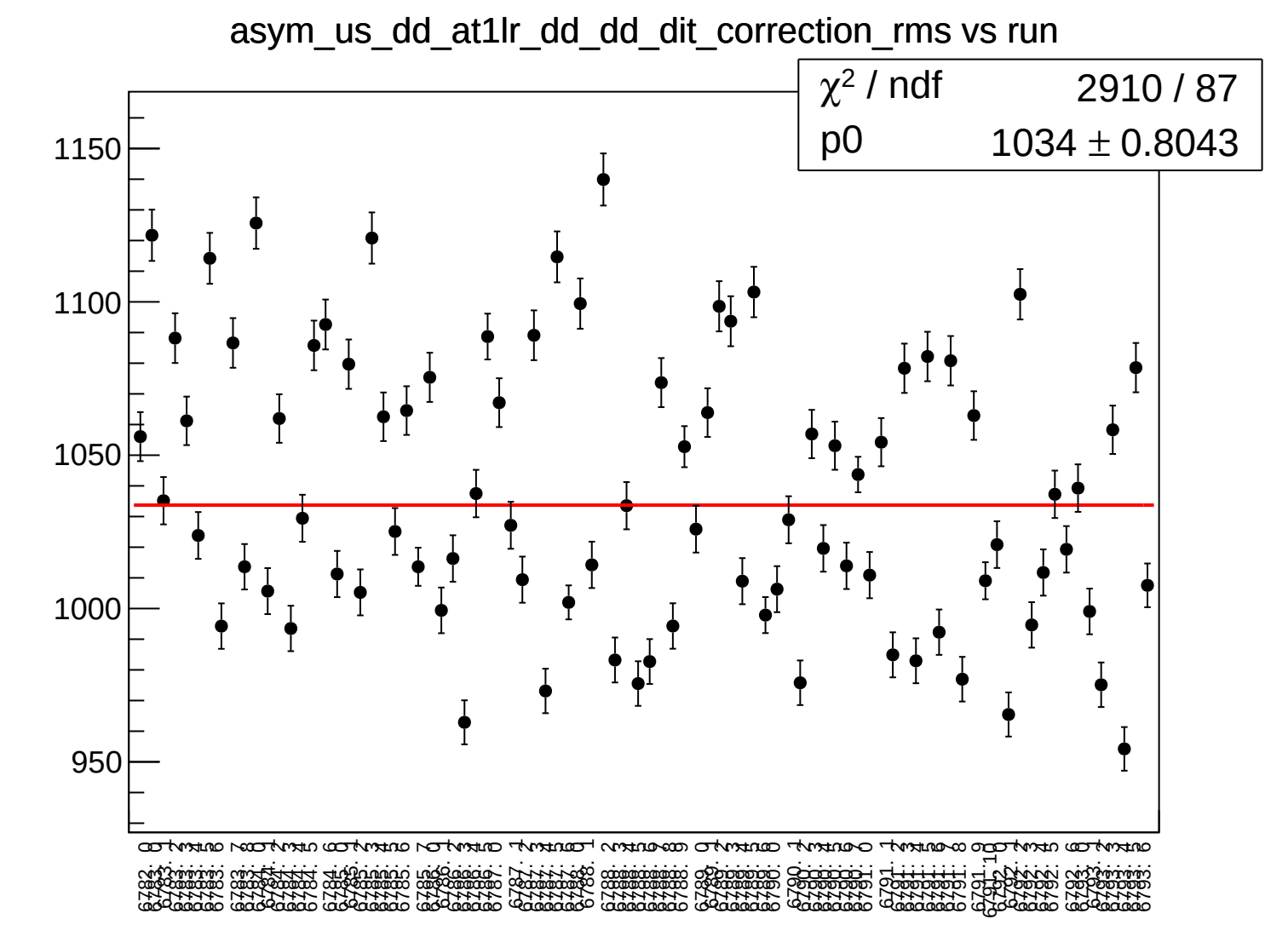

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.59 / 87
p0 −1659 ± 1895
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −741.2
Std Dev 0
2
1
0
−1
−2

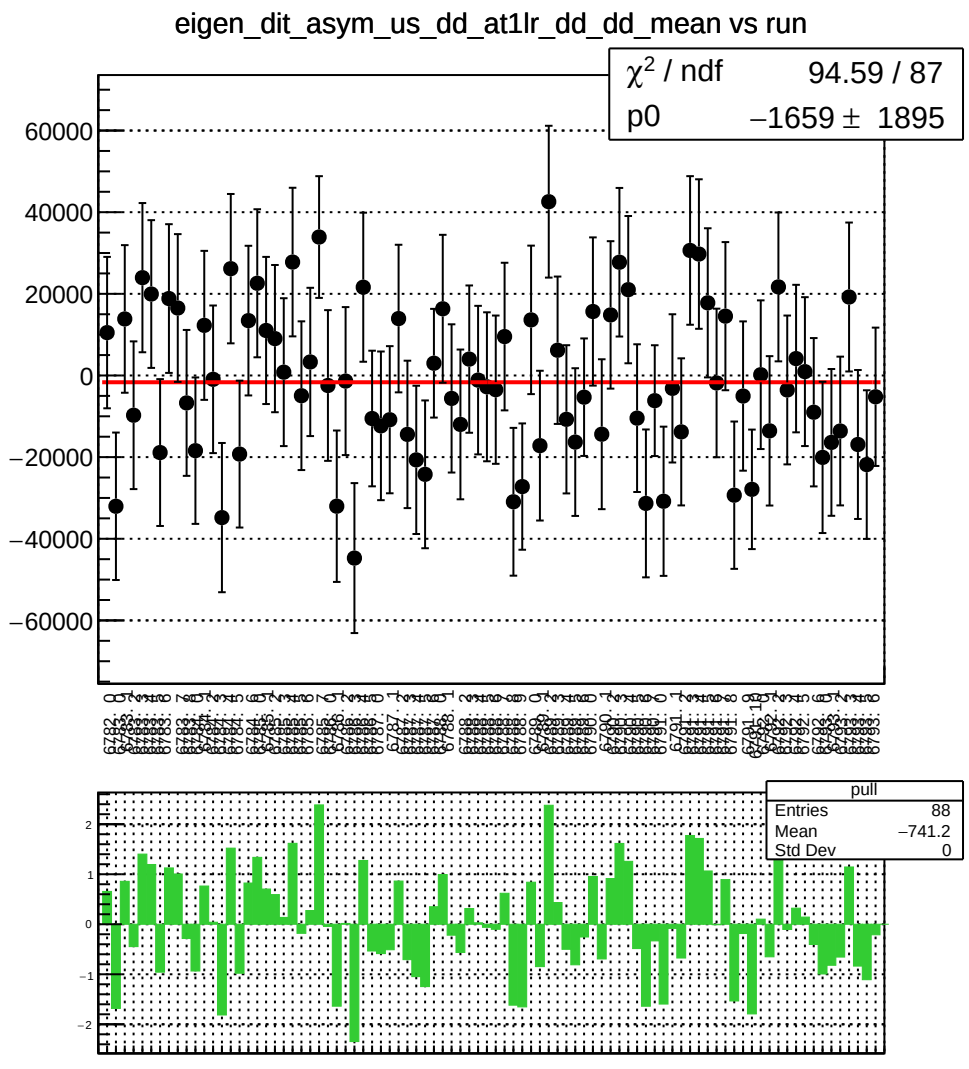

pull1D
Entries 88
Mean 0.004198
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

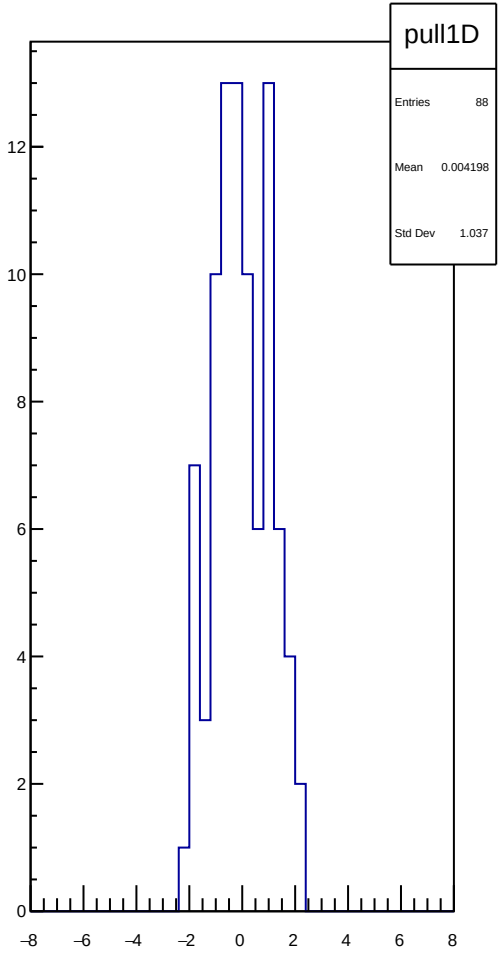

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 84.64 / 87
p0 1724 ± 1.34
1780
1760
1740
1720
1700
1680

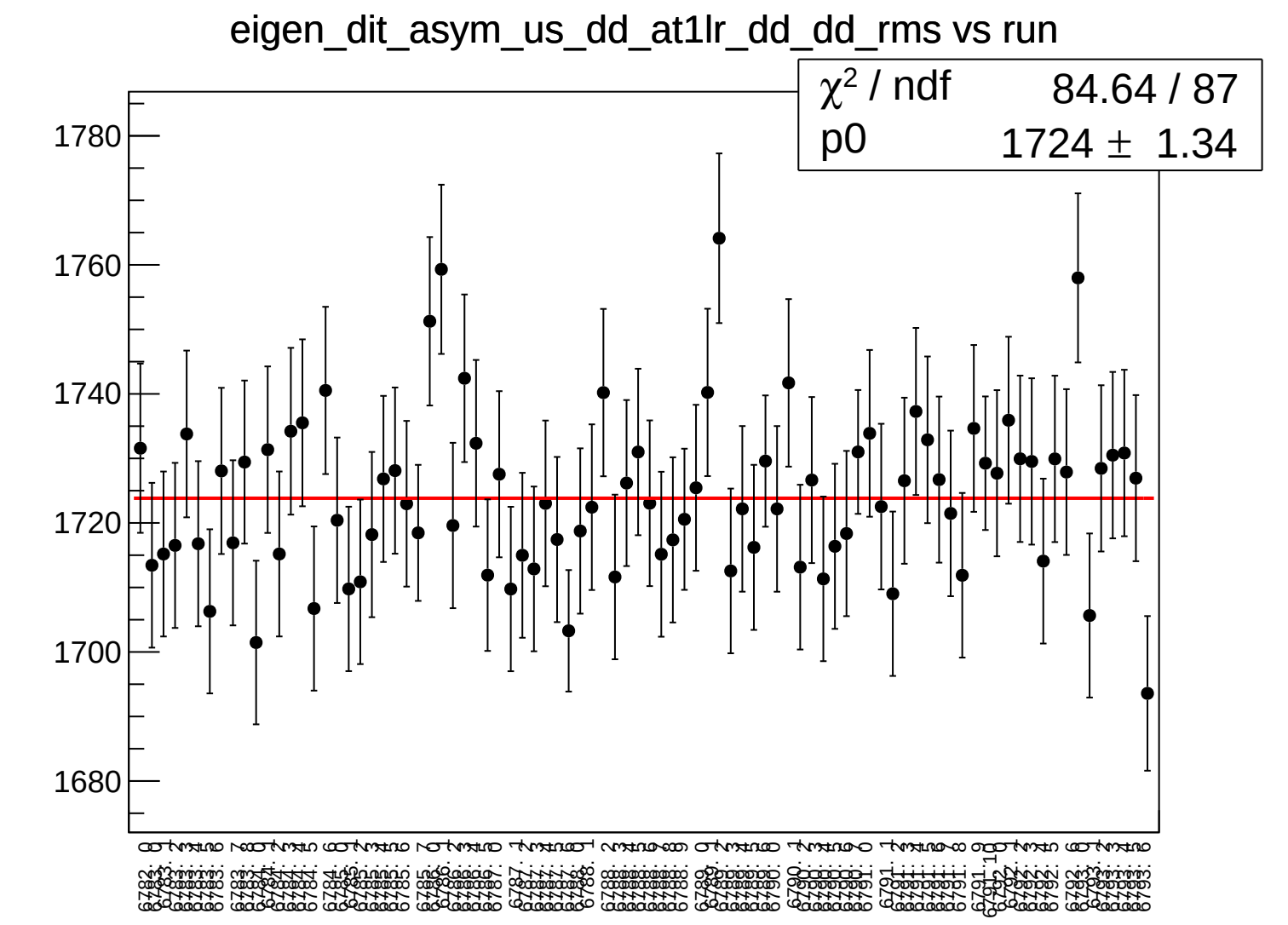

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 76.14 / 87
p0 −3629 ± 1137
pull
Entries 88
Mean −278.4
Std Dev 0

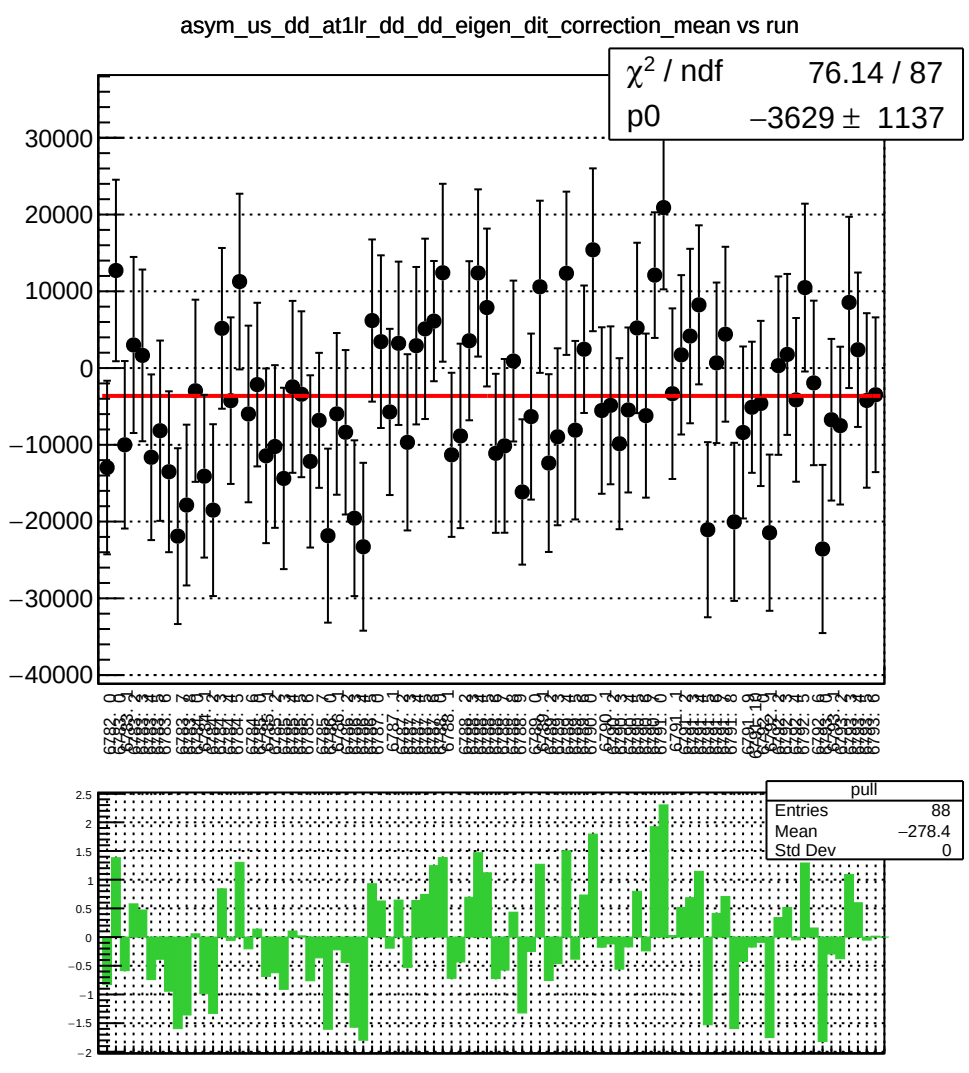

pull1D
Entries 88
Mean −0.01251
Std Dev 0.9301

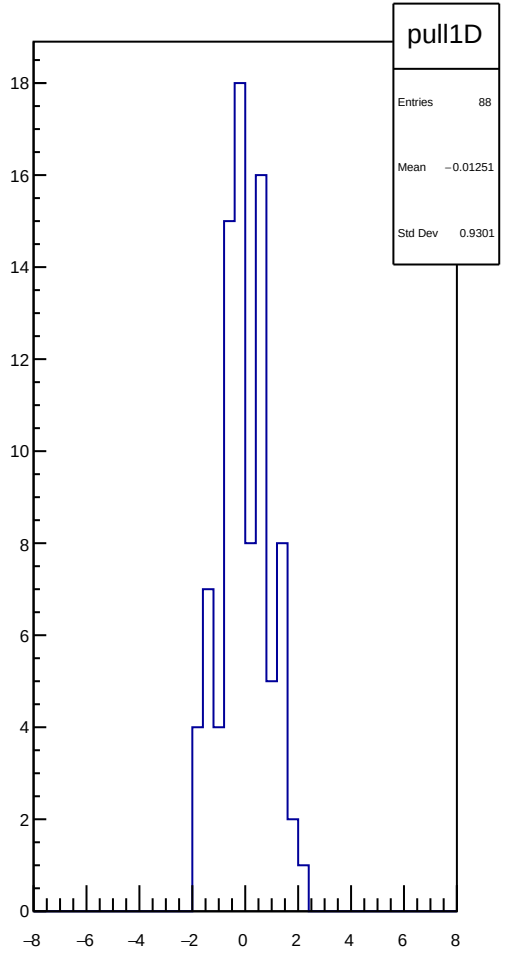

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2910 / 87
p0 1034 ± 0.8043
1150
1100
1050
1000
950

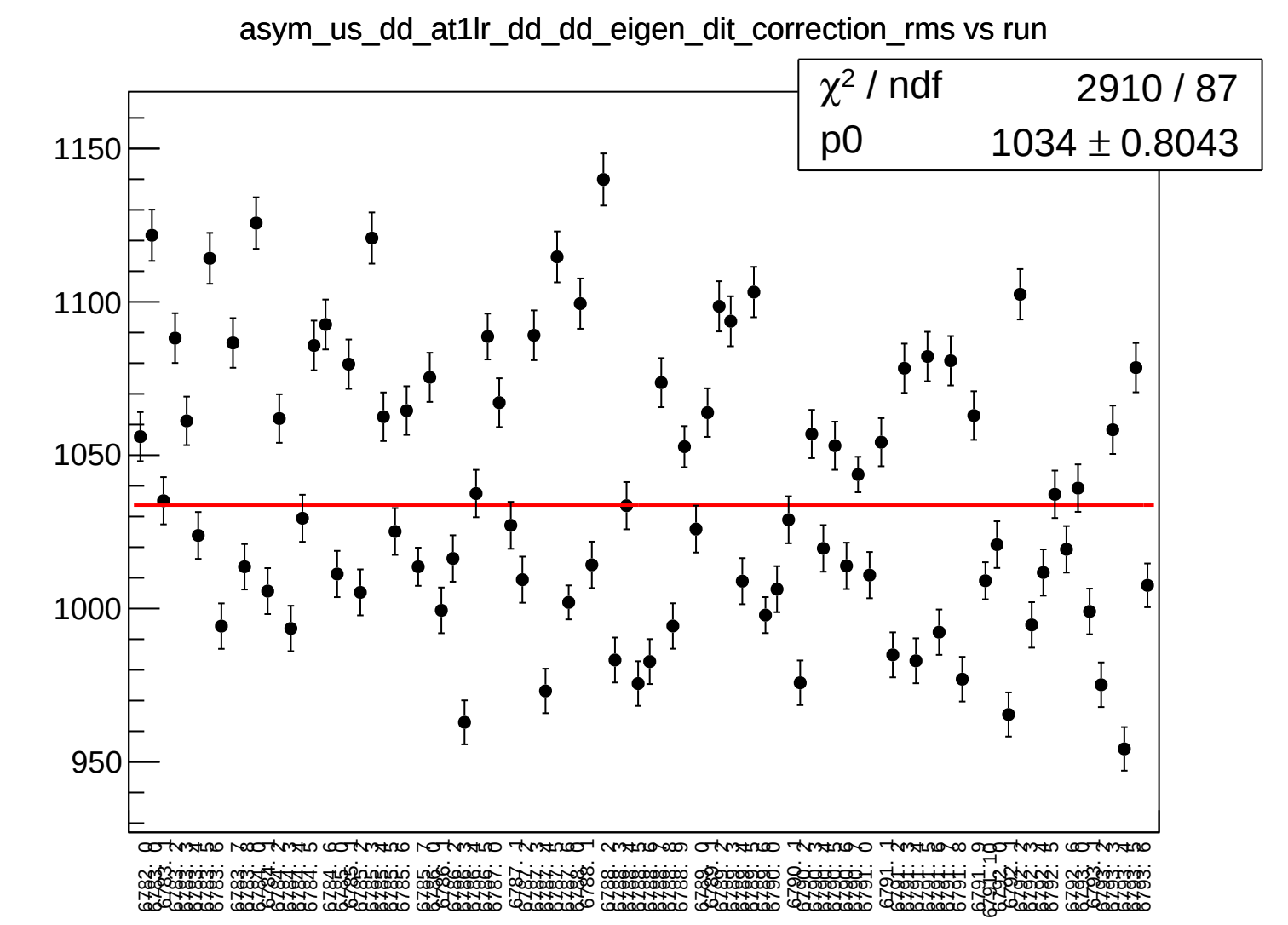

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.59 / 87
p0 −1659 ± 1895
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −741.2
Std Dev 0
2
1
0
−1
−2

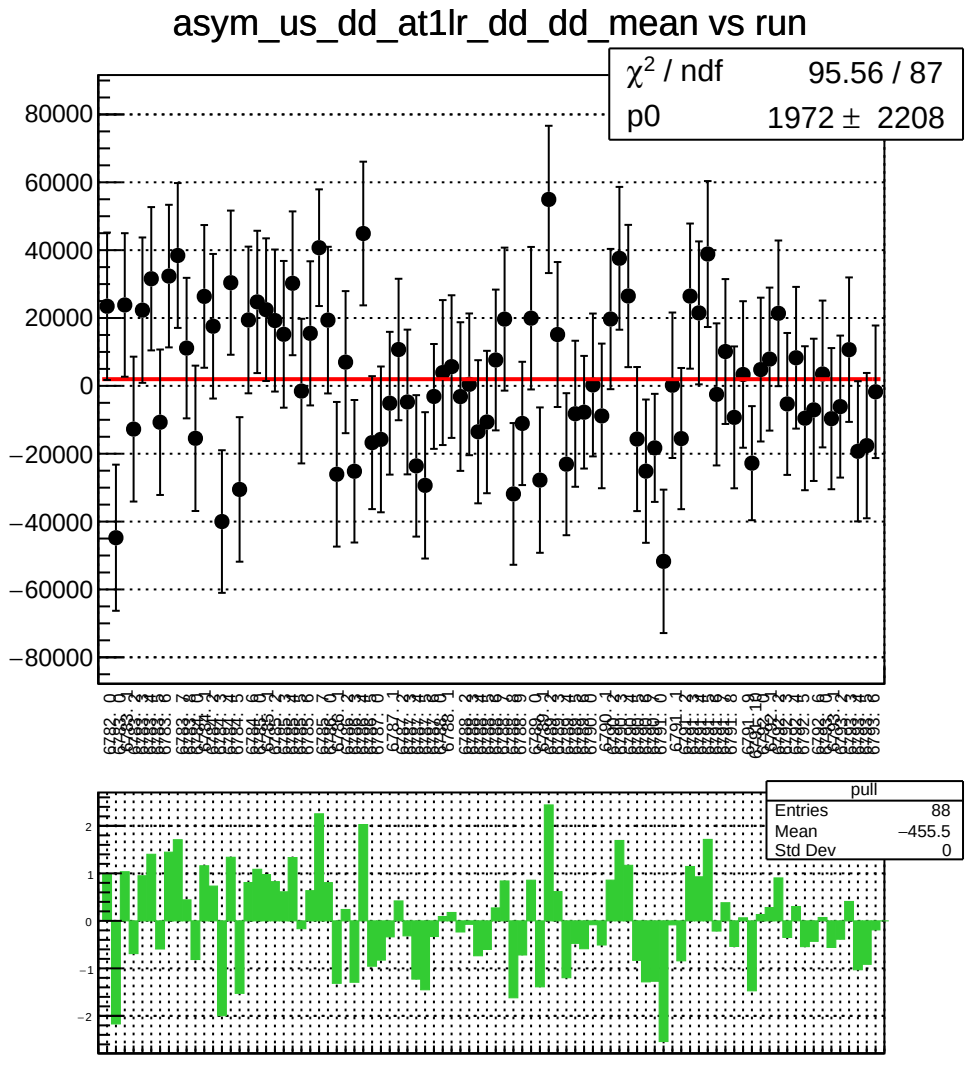

pull1D
Entries 88
Mean 0.004198
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

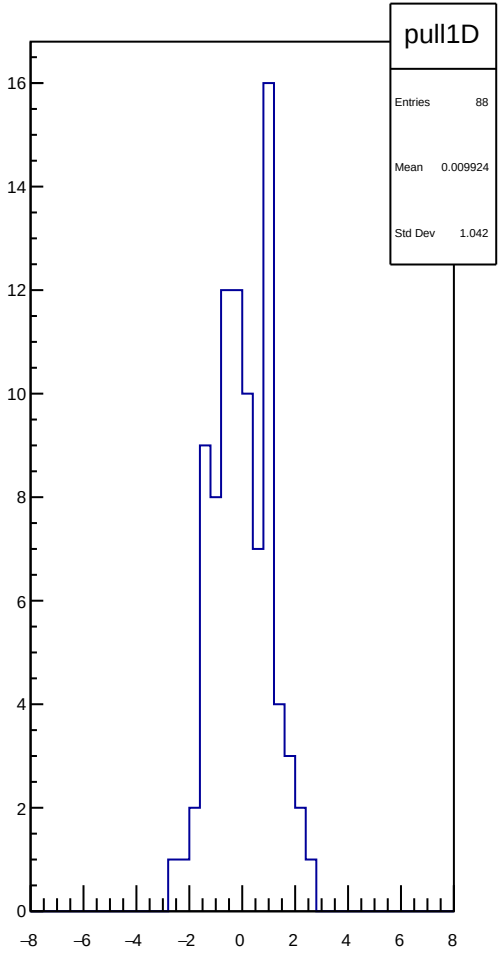

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 84.64 / 87
p0 1724 ± 1.34
1780
1760
1740
1720
1700
1680

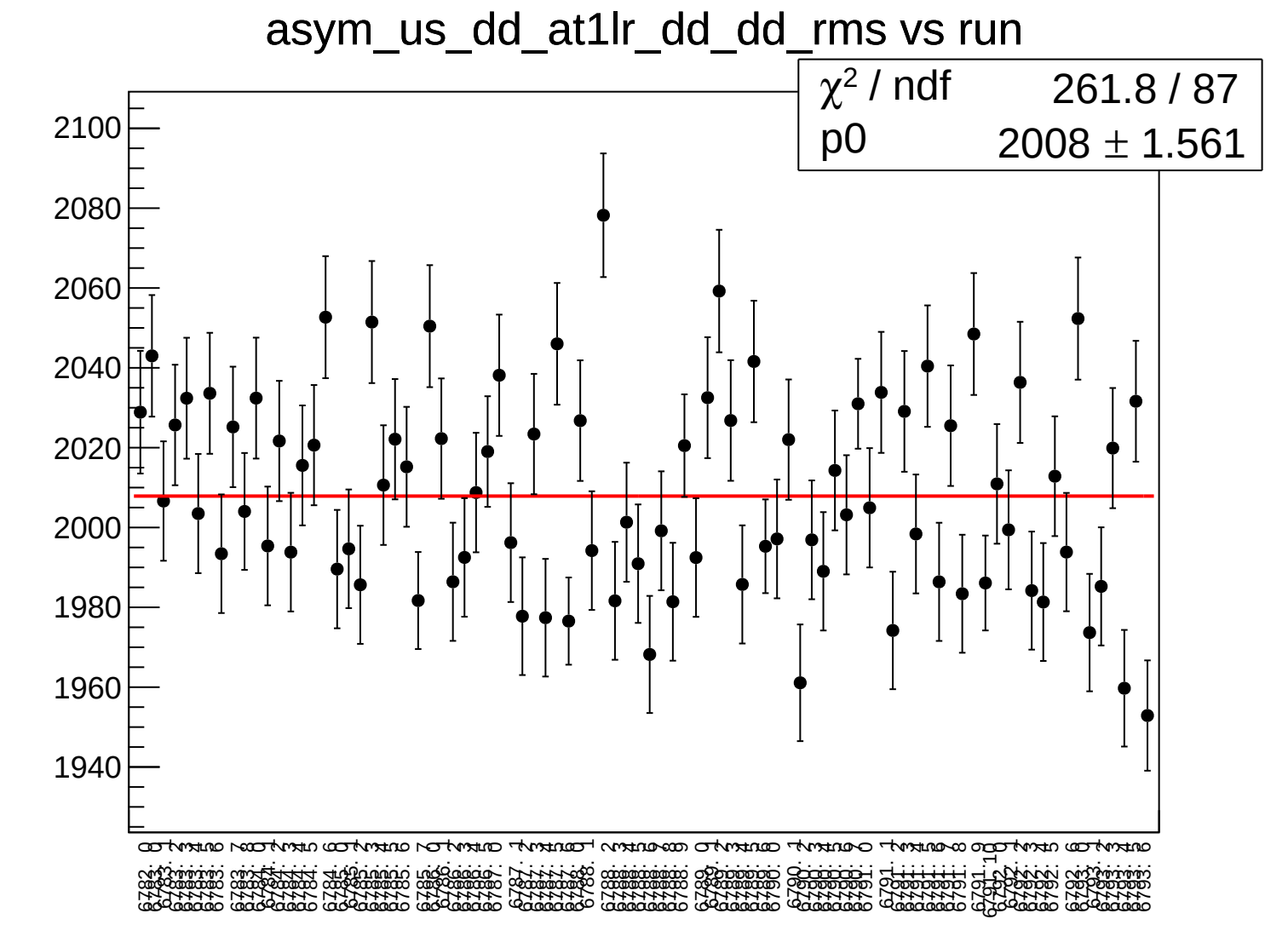

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.14 / 87
p0 −3629 ± 1137
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −278.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

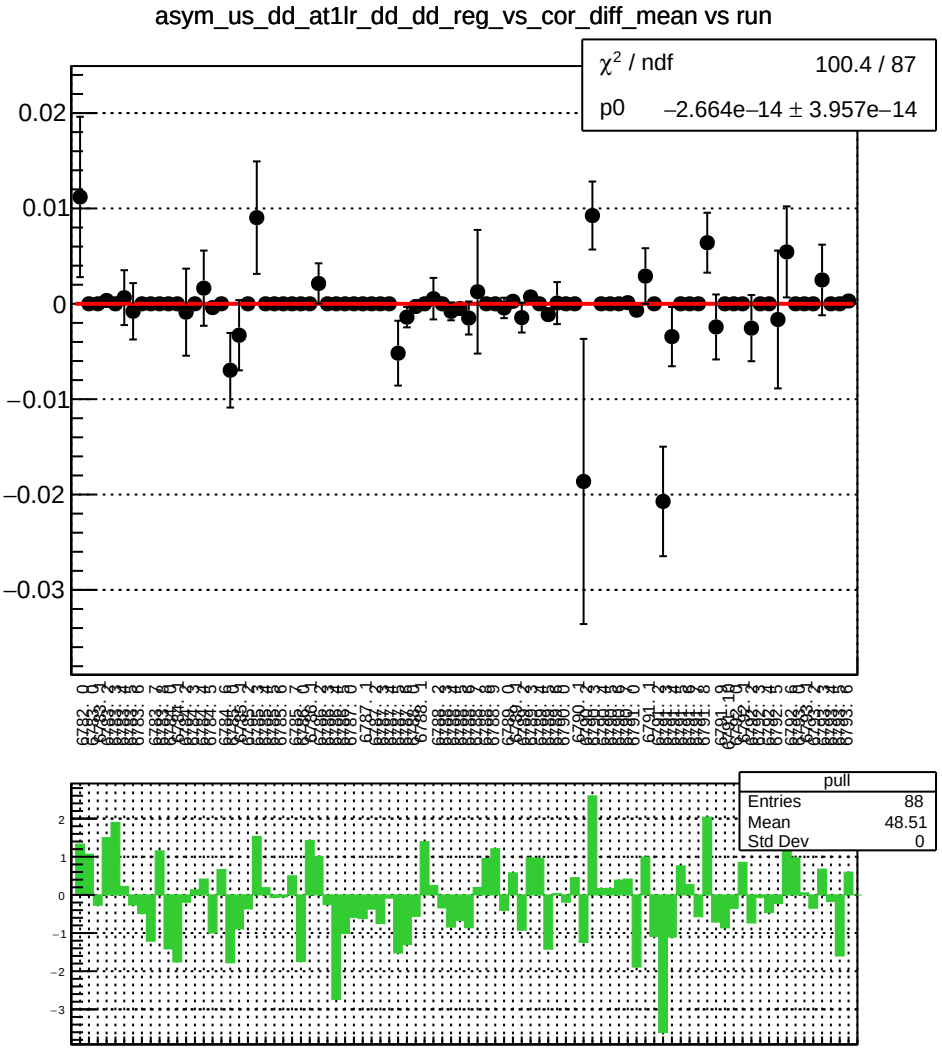

pull1D
Entries 88
Mean −0.01251
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

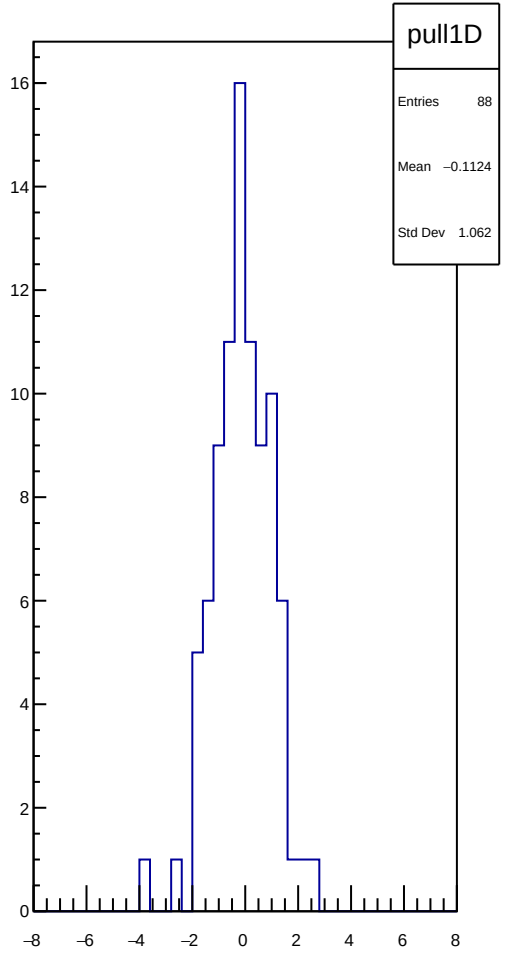

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2910 / 87
p0 1034 ± 0.8043
1150
1100
1050
1000
950

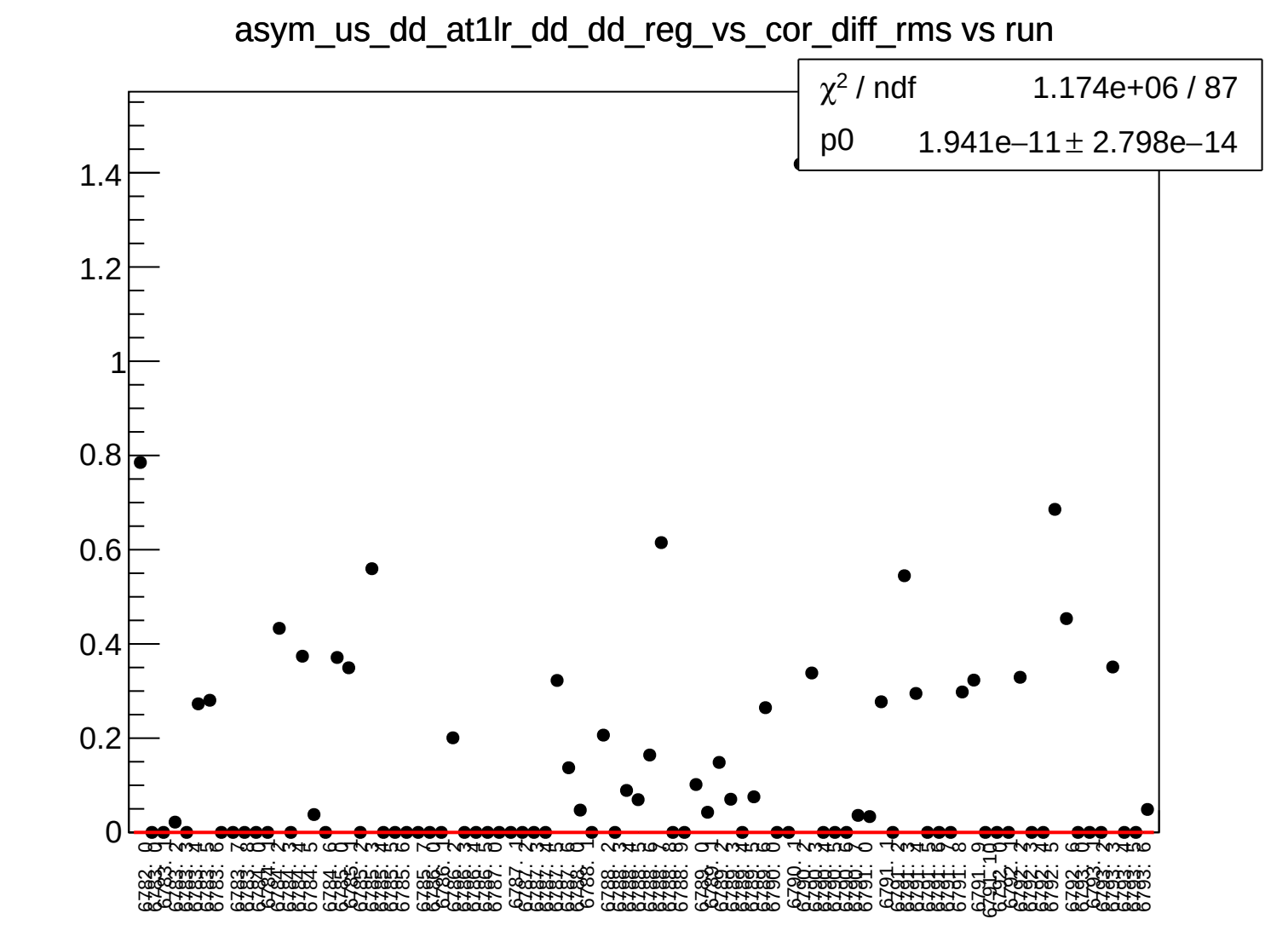

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.56 / 87
p0 1972 ± 2208
pull
Entries 88
Mean −455.5
Std Dev 0

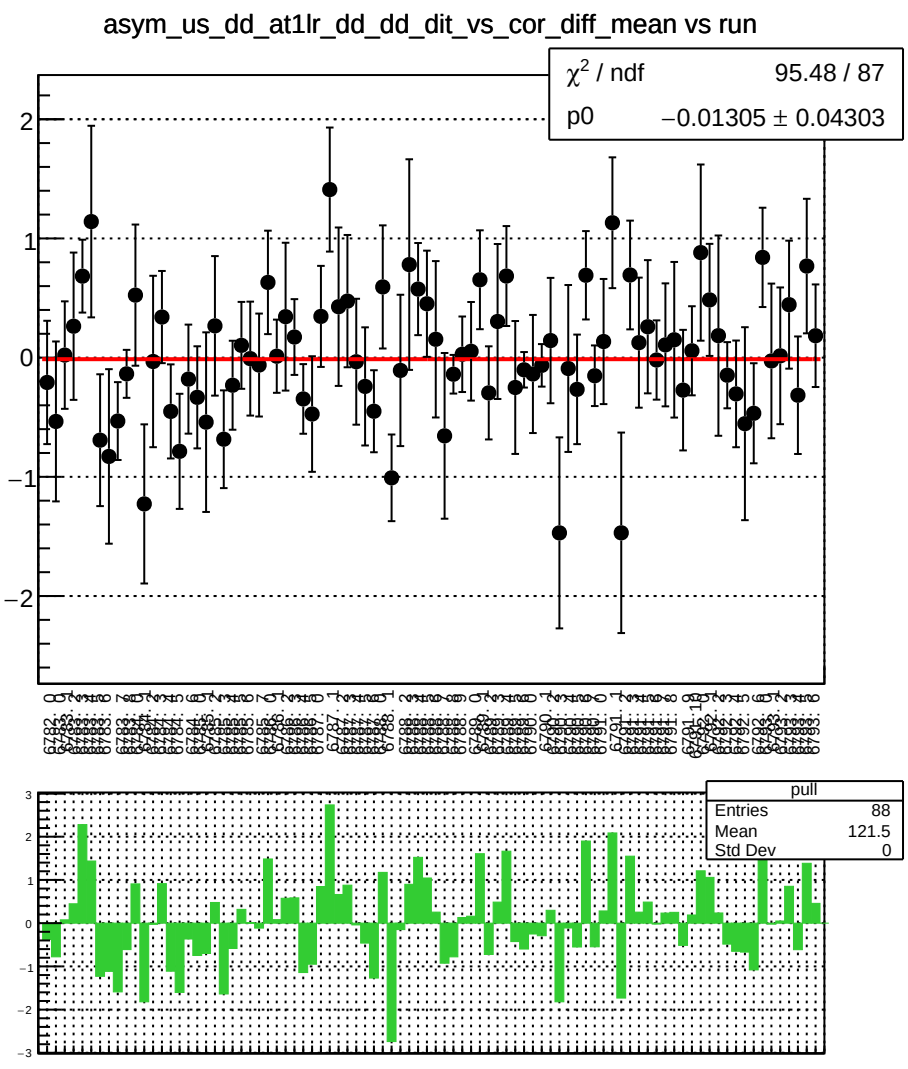

pull1D
Entries 88
Mean 0.009924
Std Dev 1.042

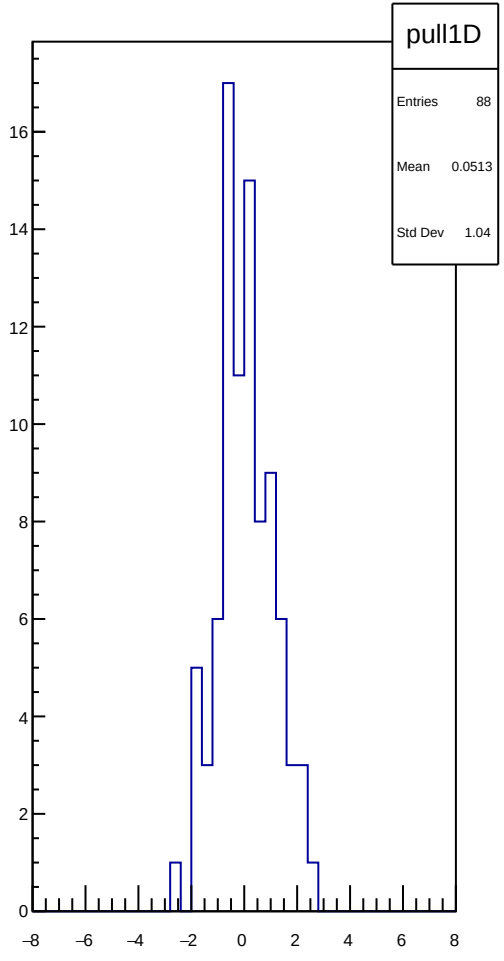

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 261.8 / 87
p0 2008 ± 1.561
2100
2080
2060
2040
2020
2000
1980
1960
1940

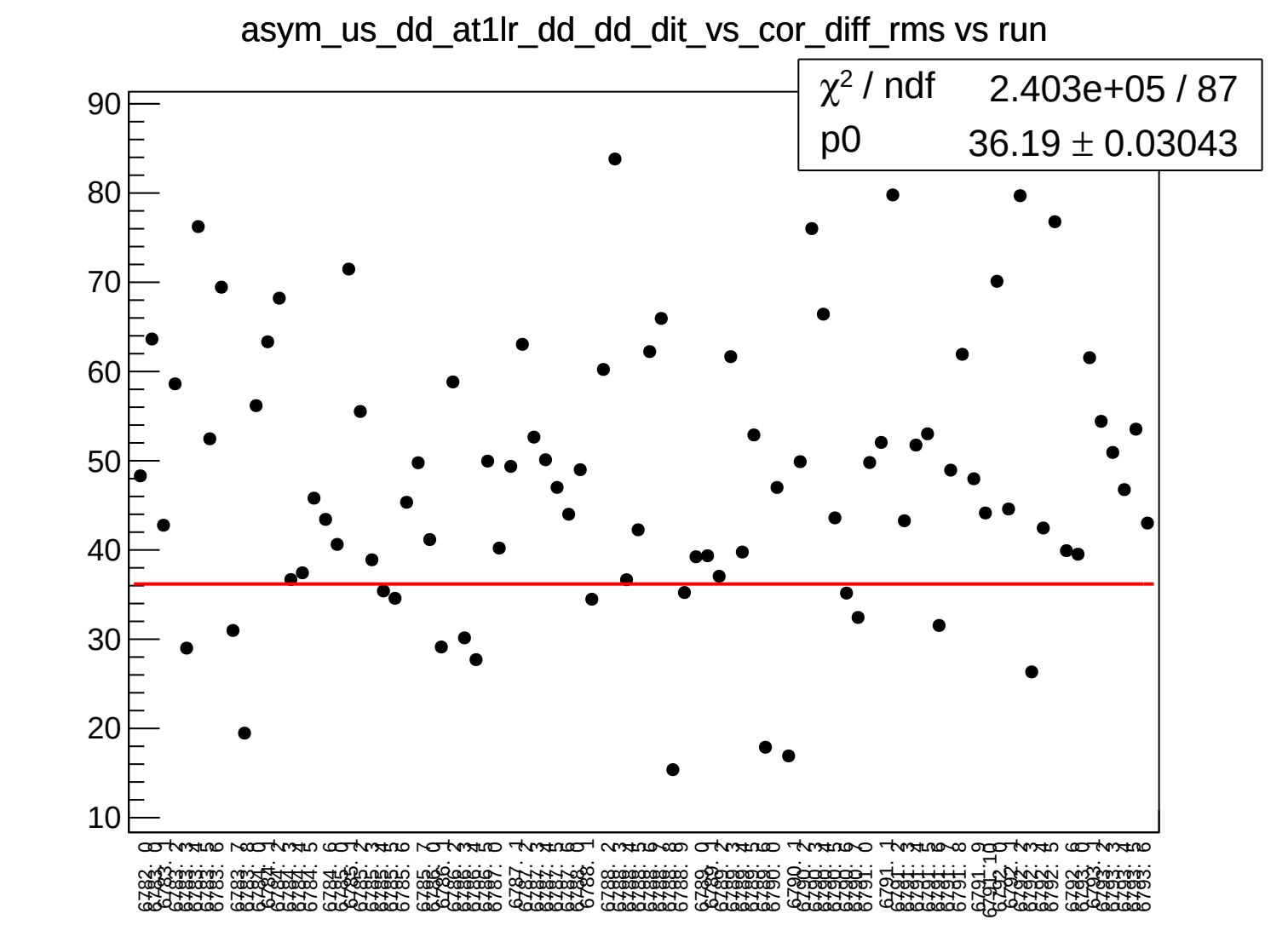

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 87
p0 −2.664e−14 ± 3.957e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 48.51
Std Dev 0
2
1
0
−1
−2
−3

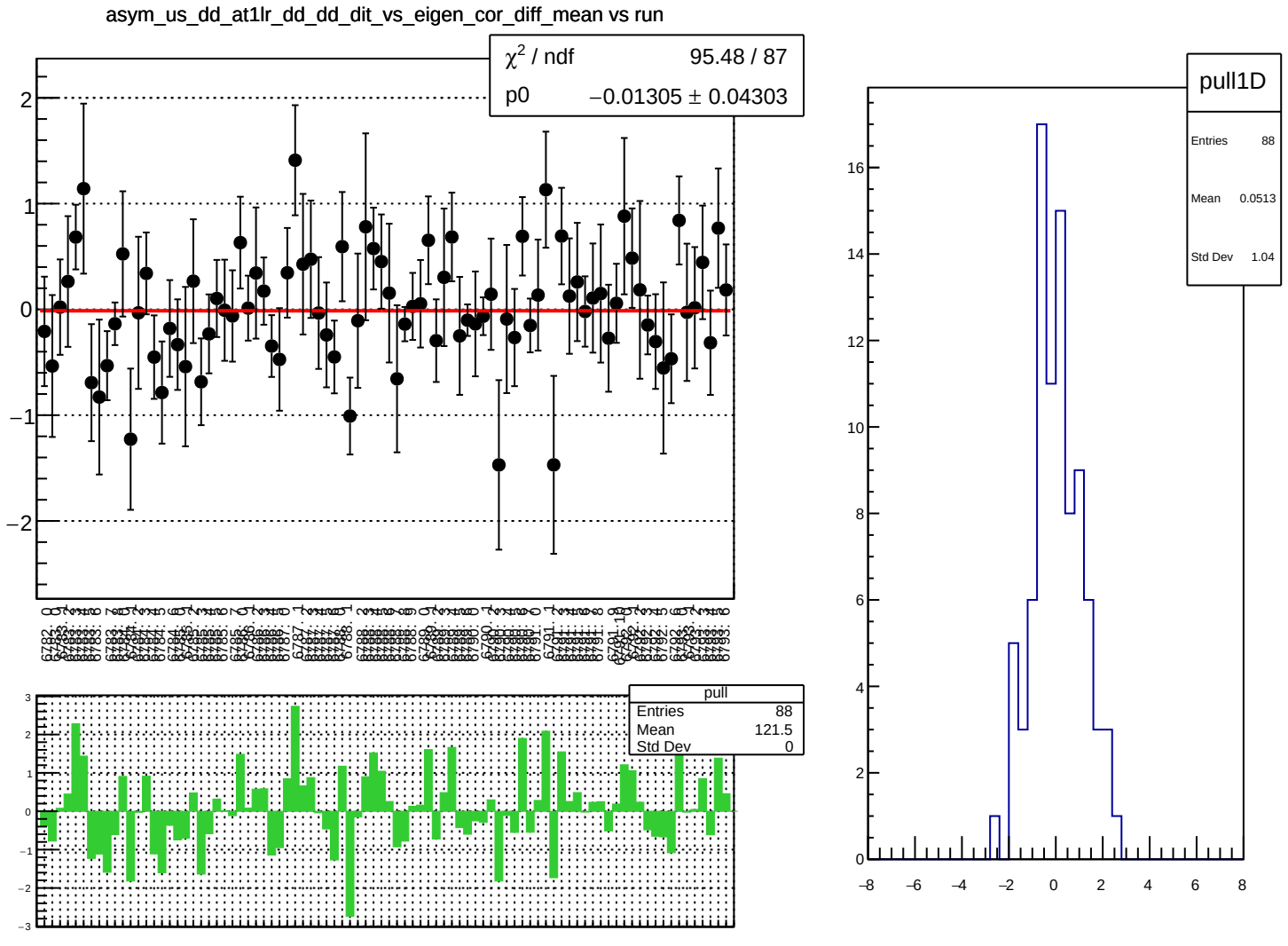

pull1D
Entries 88
Mean −0.1124
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

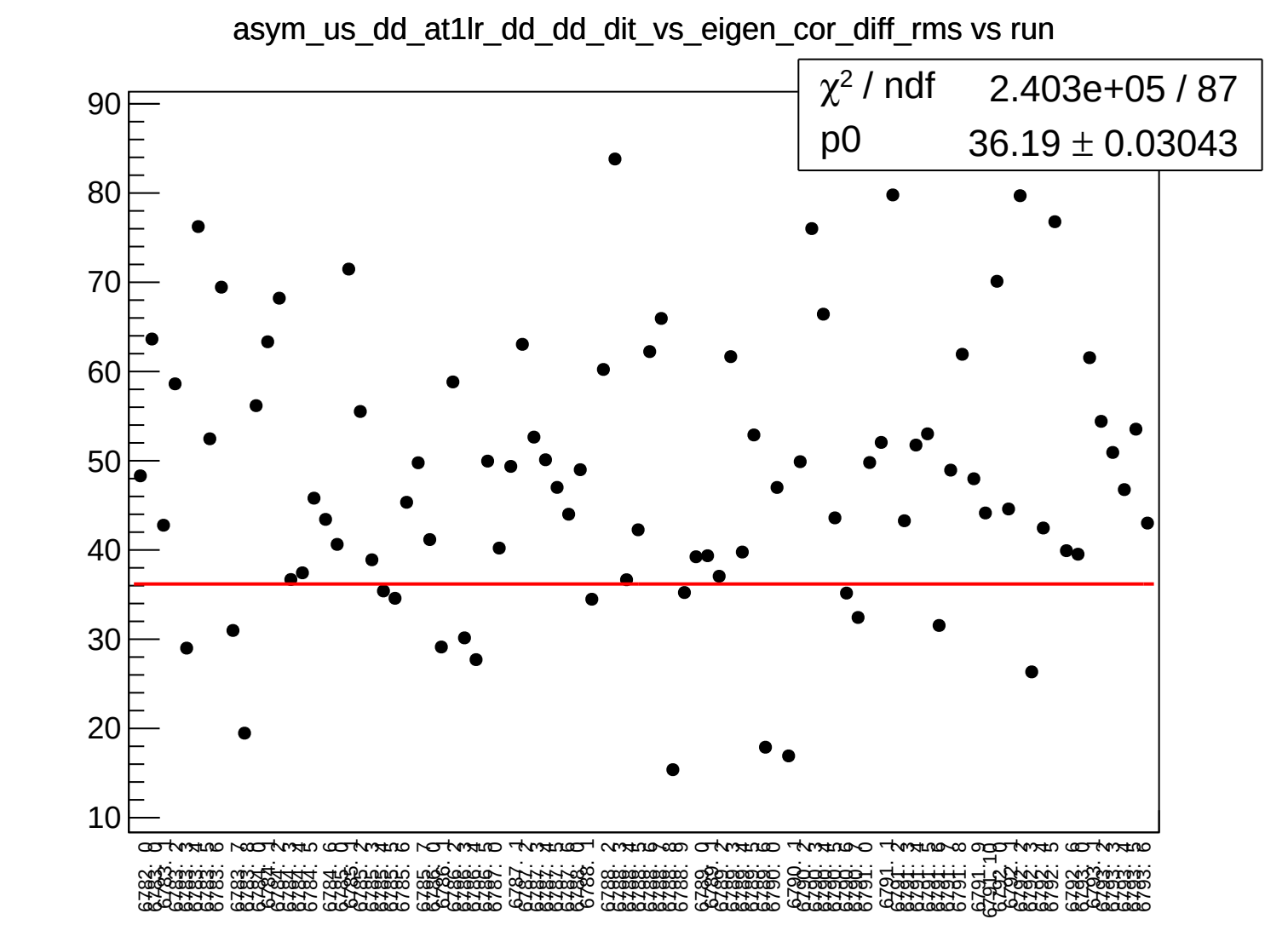

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.174e+06 / 87
p0 1.941e−11 ± 2.798e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

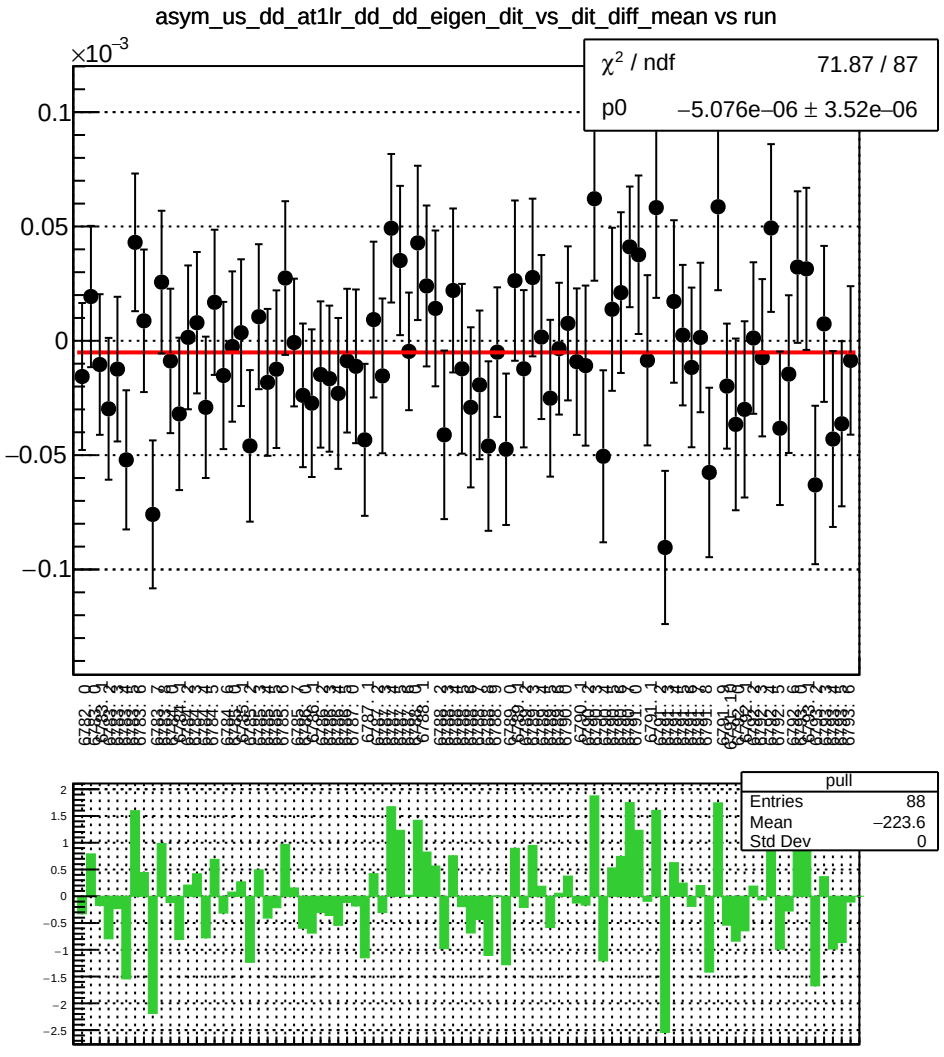

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.48 / 87
p0 −0.01305 ± 0.04303
pull
Entries 88
Mean 121.5
Std Dev 0

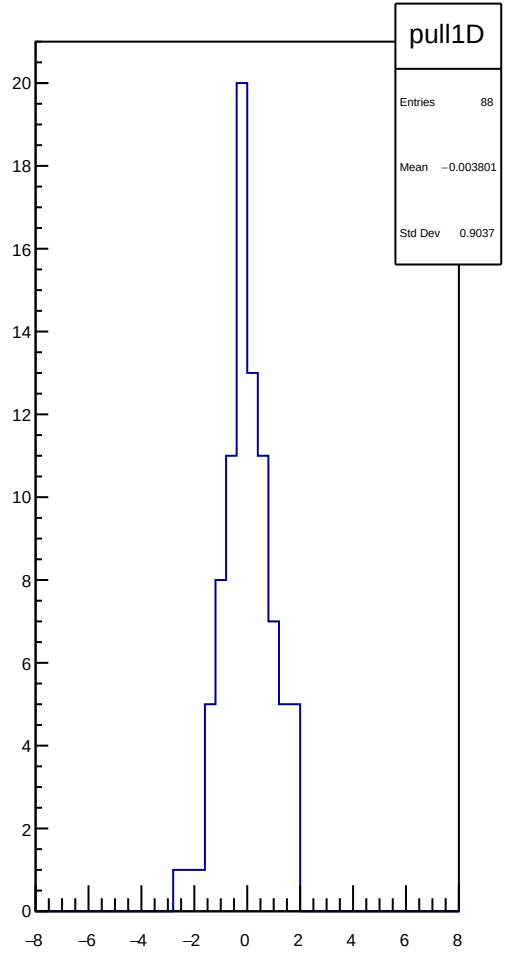

pull1D
Entries 88
Mean 0.0513
Std Dev 1.04

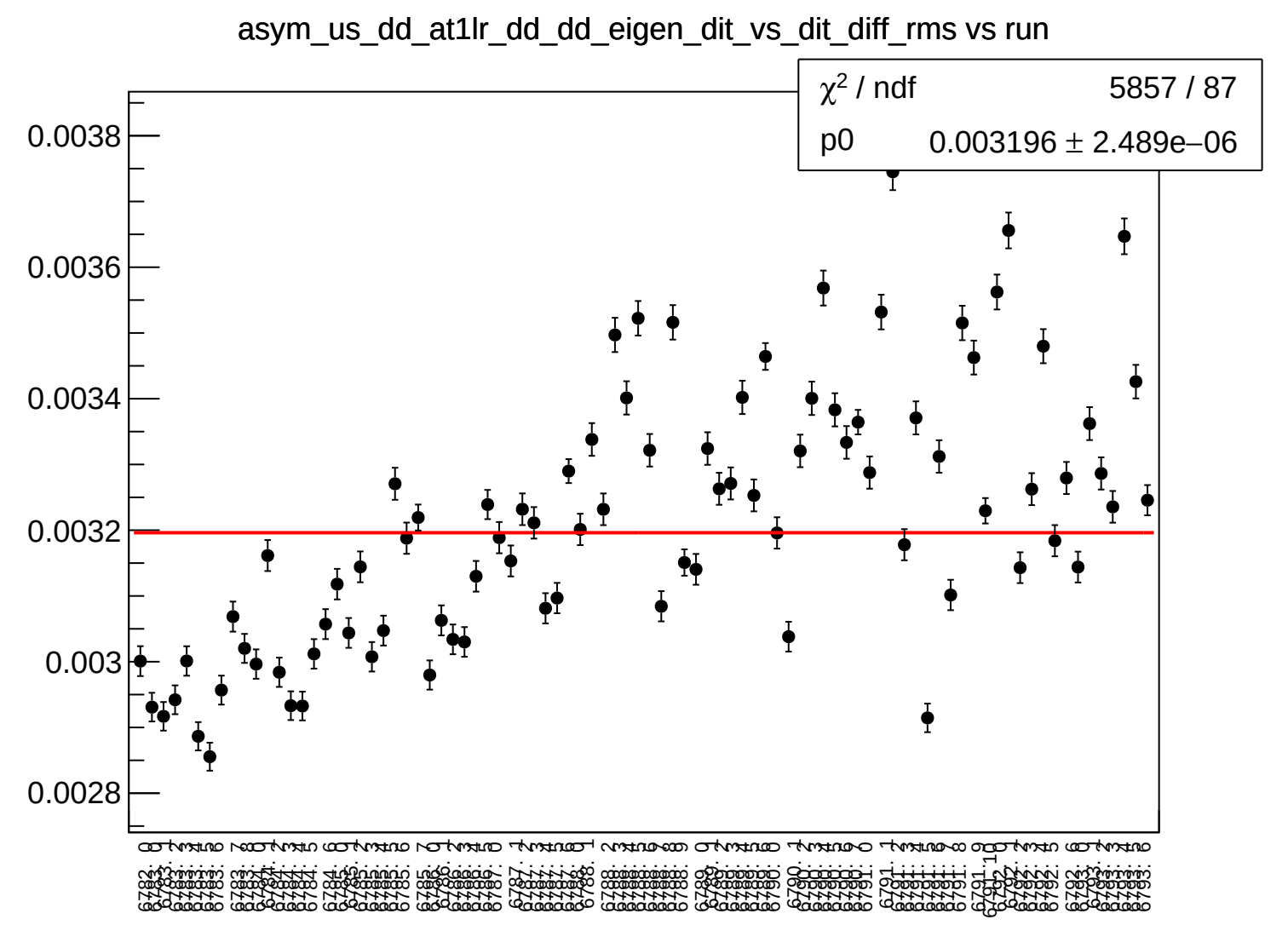

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.403e+05 / 87
p0 36.19 ± 0.03043
90
80
70
60
50
40
30
20
10

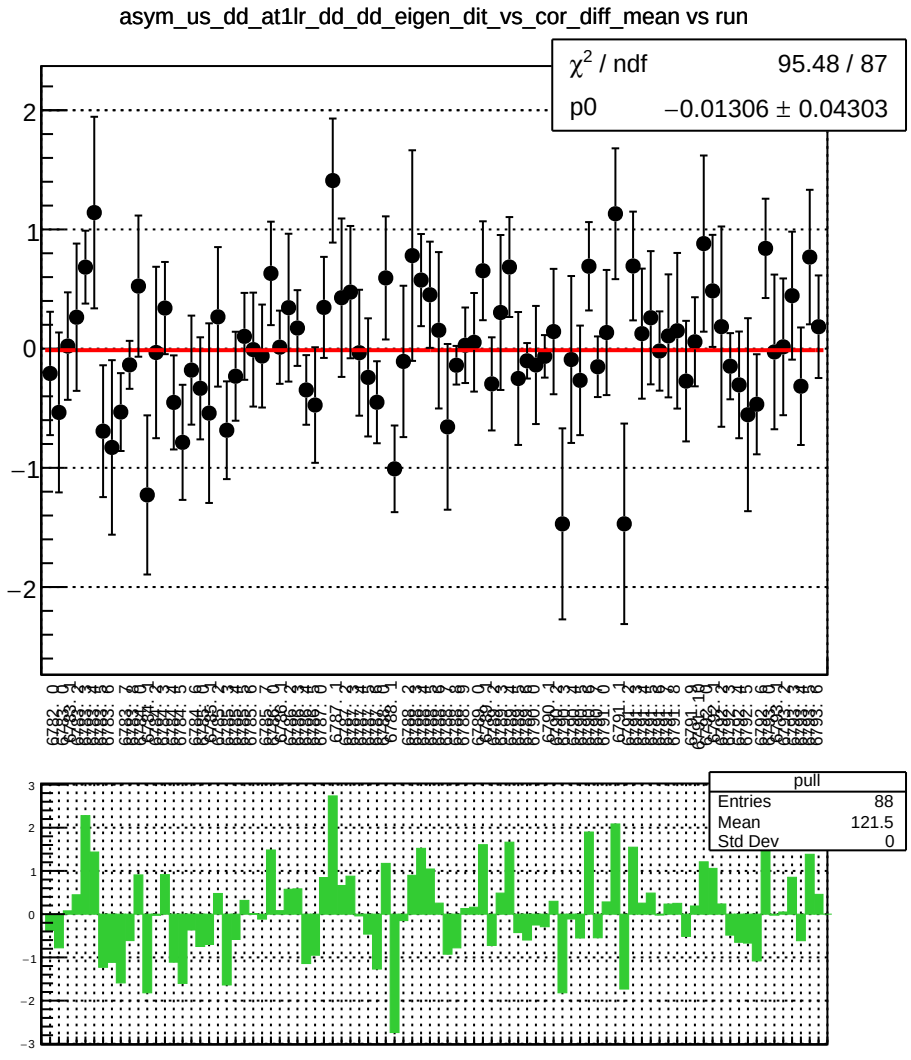

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.48 / 87
p0 −0.01305 ± 0.04303
pull
Entries 88
Mean 121.5
Std Dev 0
pull1D
Entries 88
Mean 0.0513
Std Dev 1.04

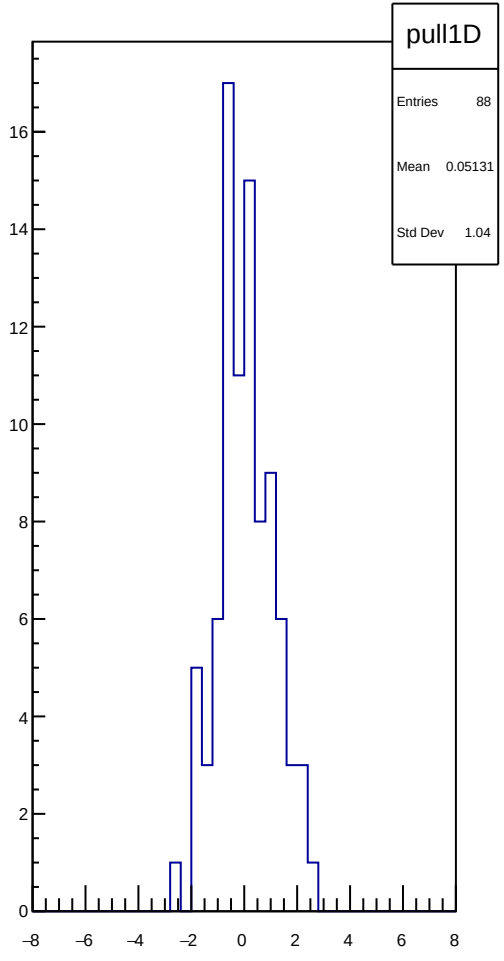

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.403e+05 / 87
p0 36.19 ± 0.03043
90
80
70
60
50
40
30
20
10

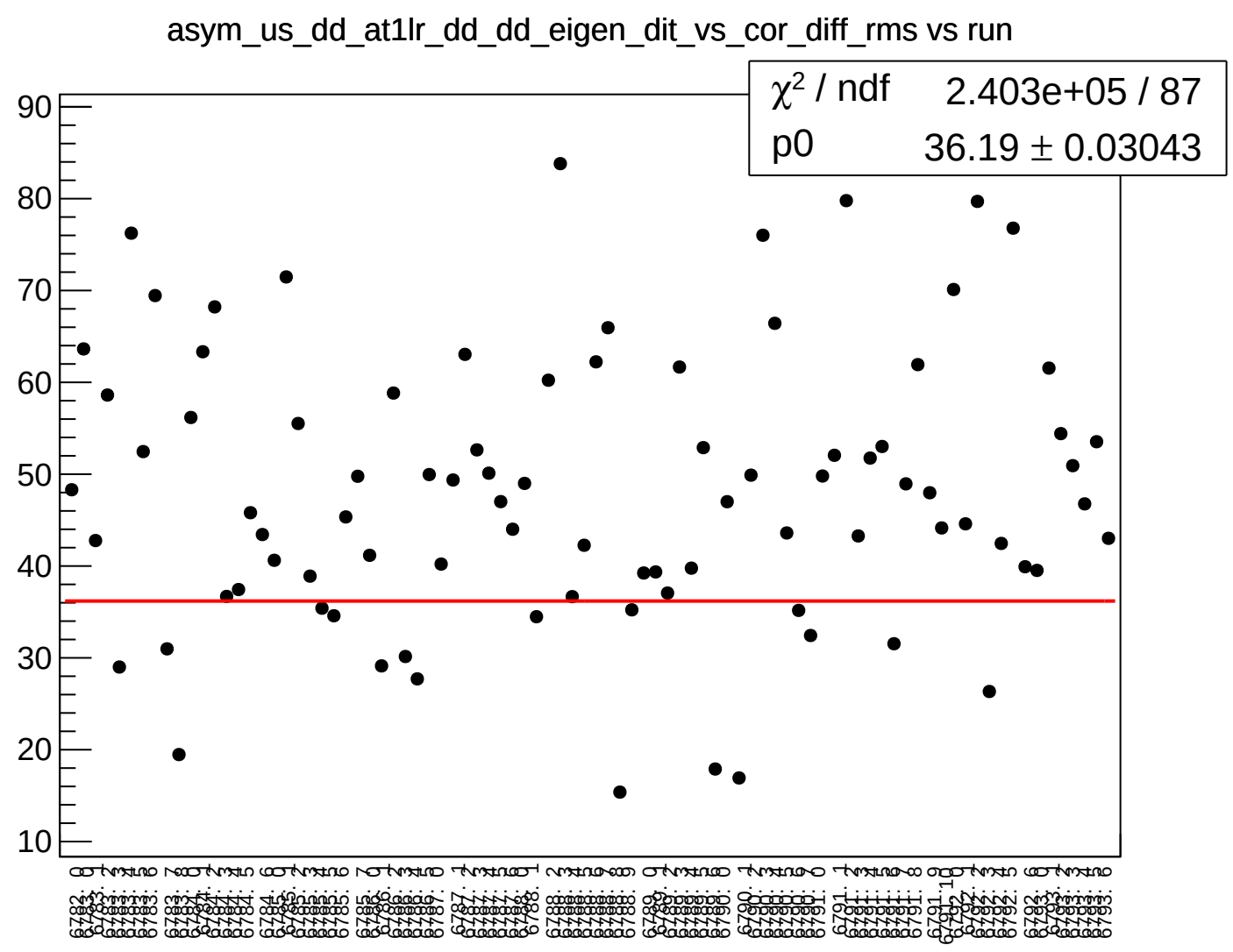

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.87 / 87
p0 −5.076e−06 ± 3.52e−06
pull
Entries 88
Mean −223.6
Std Dev 0

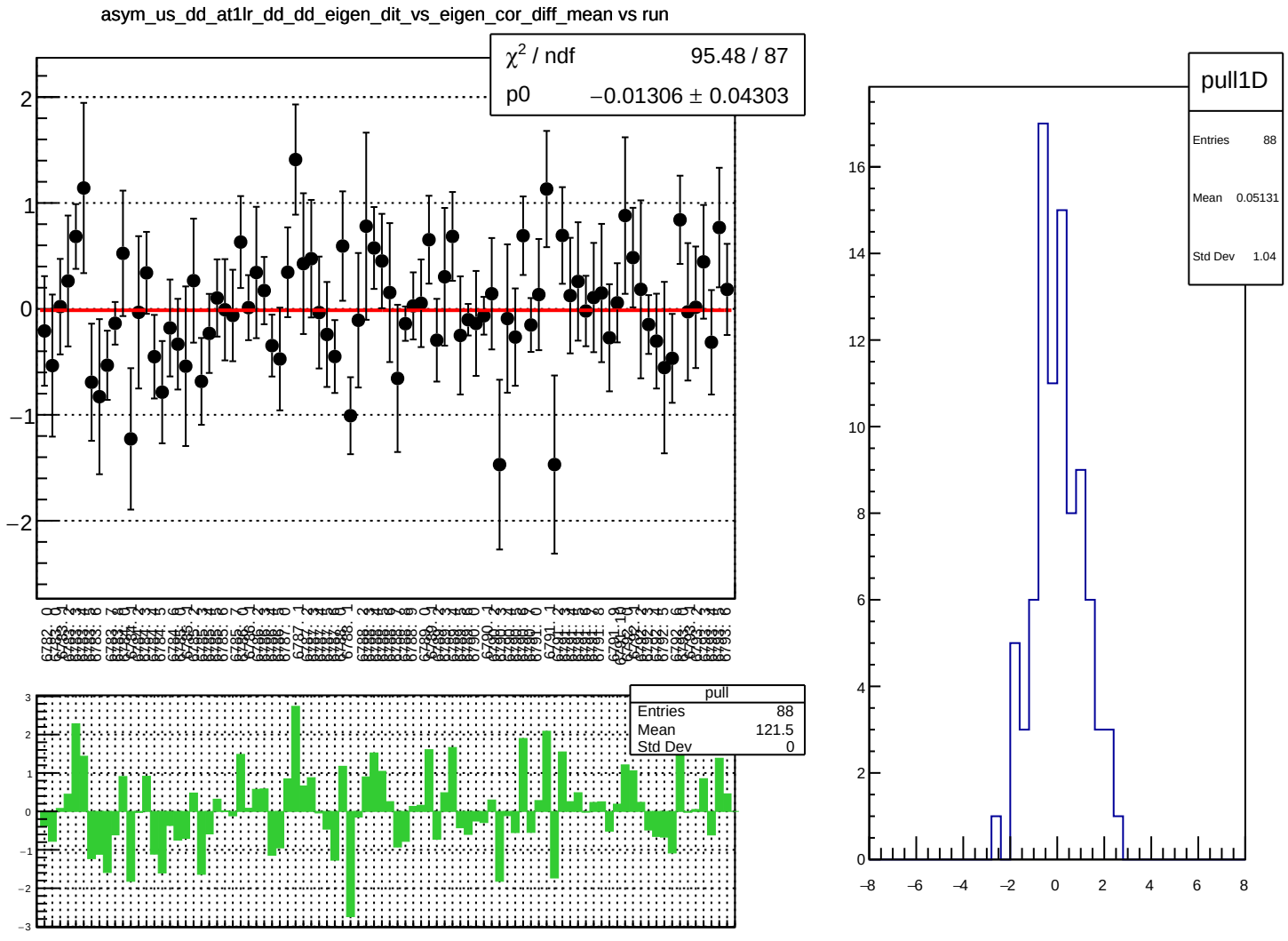

pull1D
Entries 88
Mean −0.003801
Std Dev 0.9037

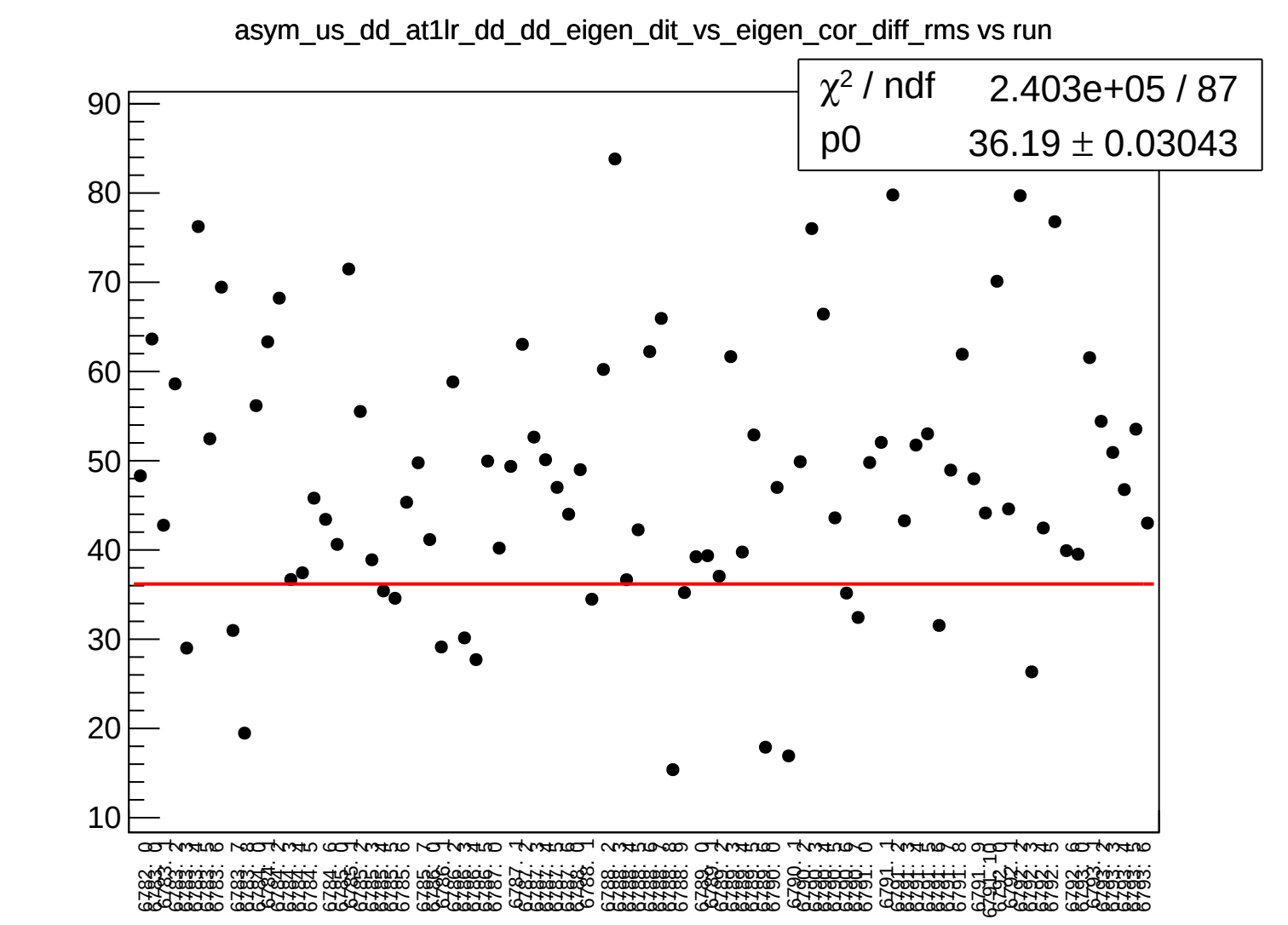

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5857 / 87
p0 0.003196 ± 2.489e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

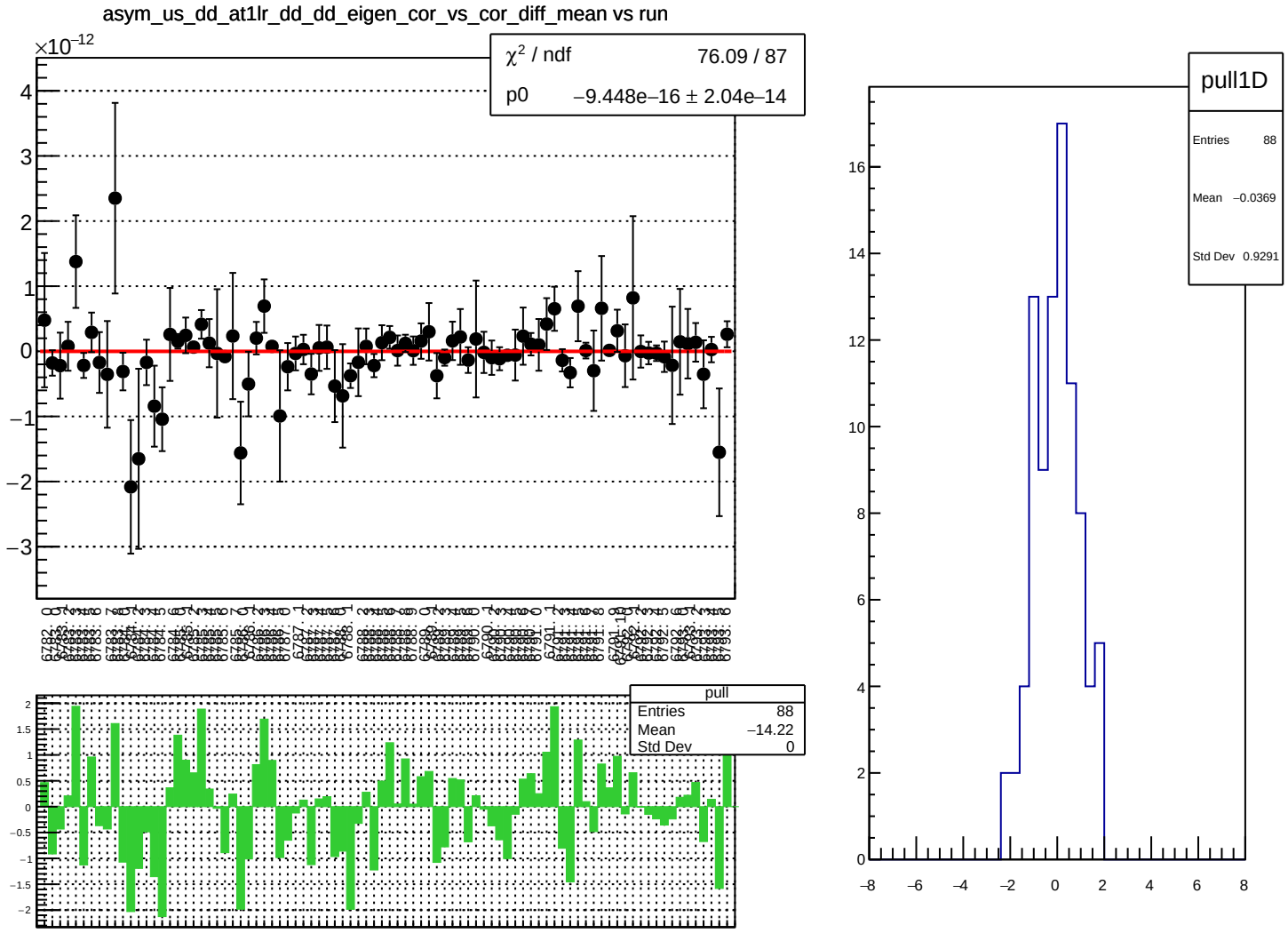

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.48 / 87
p0 −0.01306 ± 0.04303
pull
Entries 88
Mean 121.5
Std Dev 0

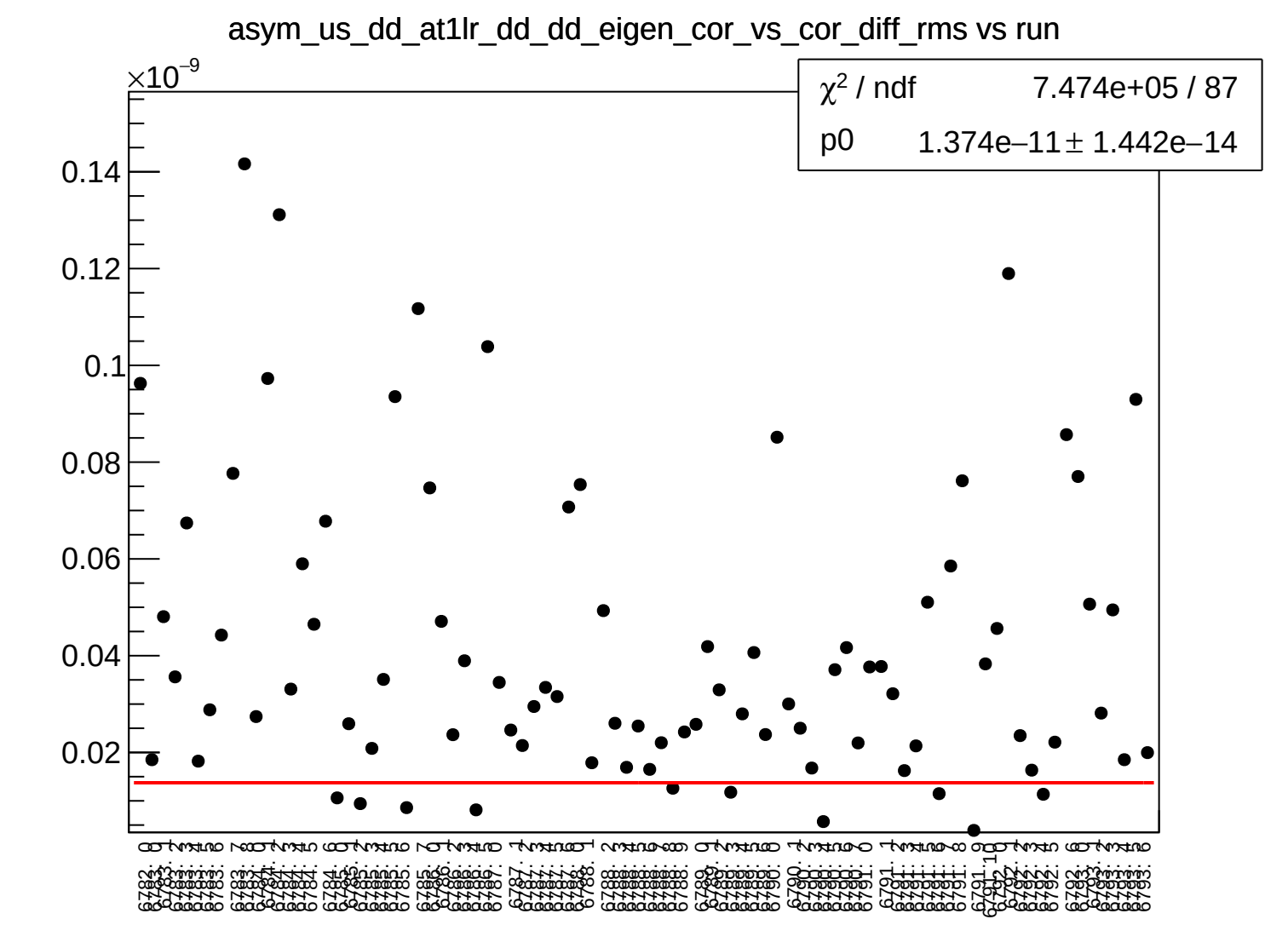

pull1D
Entries 88
Mean 0.05131
Std Dev 1.04

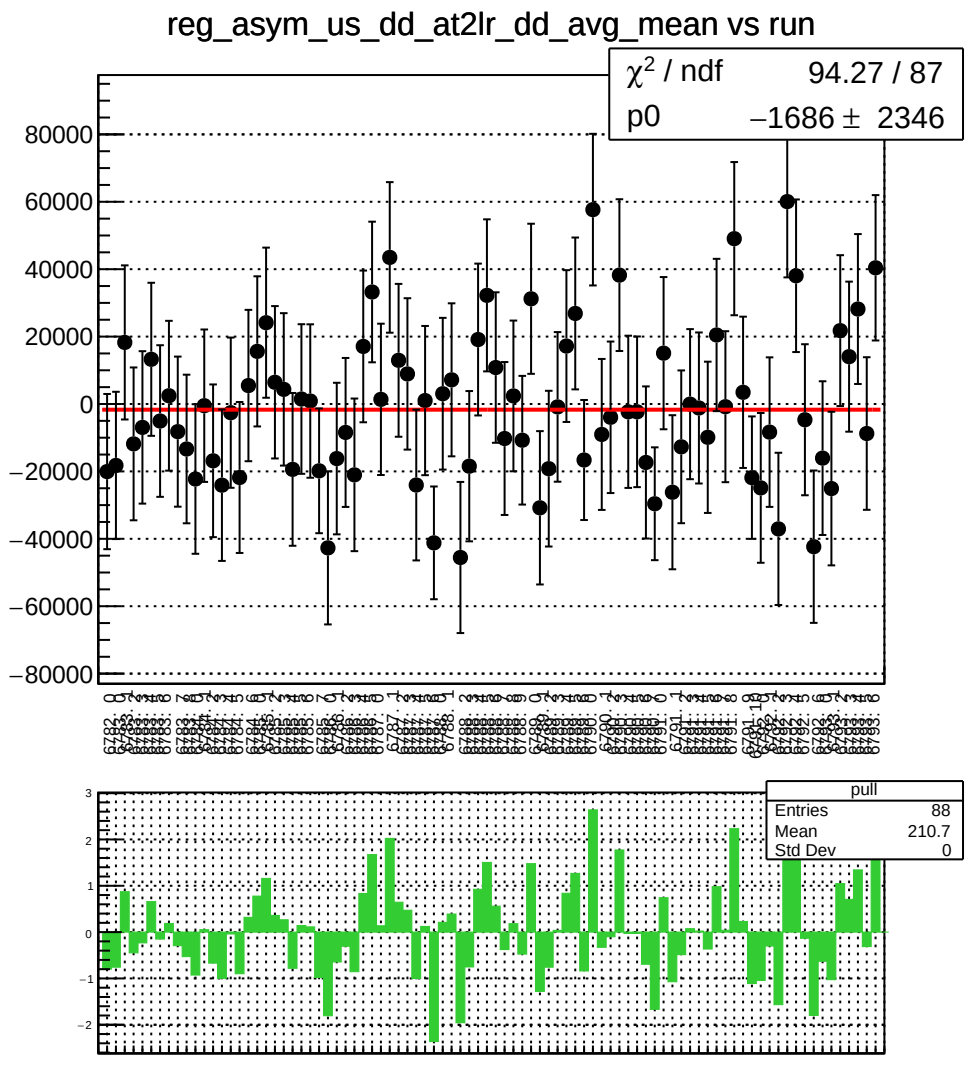

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.403e+05 / 87
p0 36.19 ± 0.03043
90
80
70
60
50
40
30
20
10

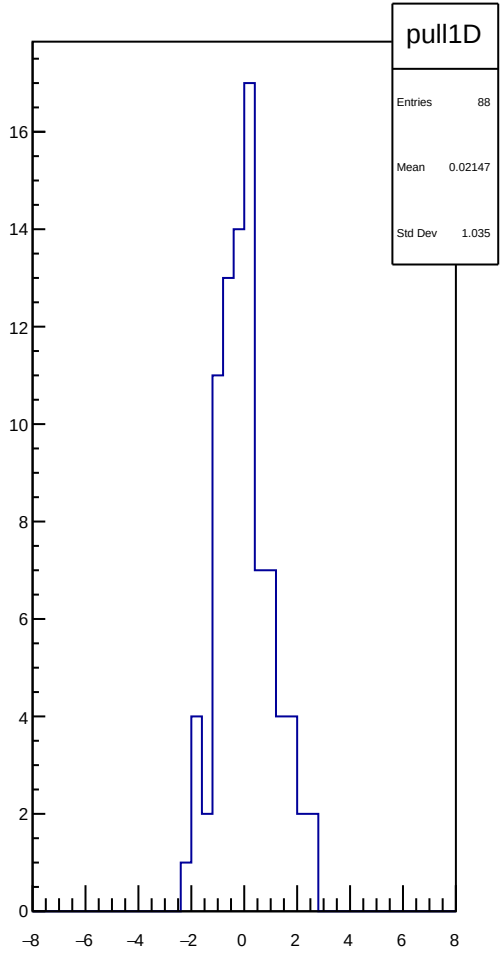

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.48 / 87
p0 −0.01306 ± 0.04303
pull
Entries 88
Mean 121.5
Std Dev 0
pull1D
Entries 88
Mean 0.05131
Std Dev 1.04

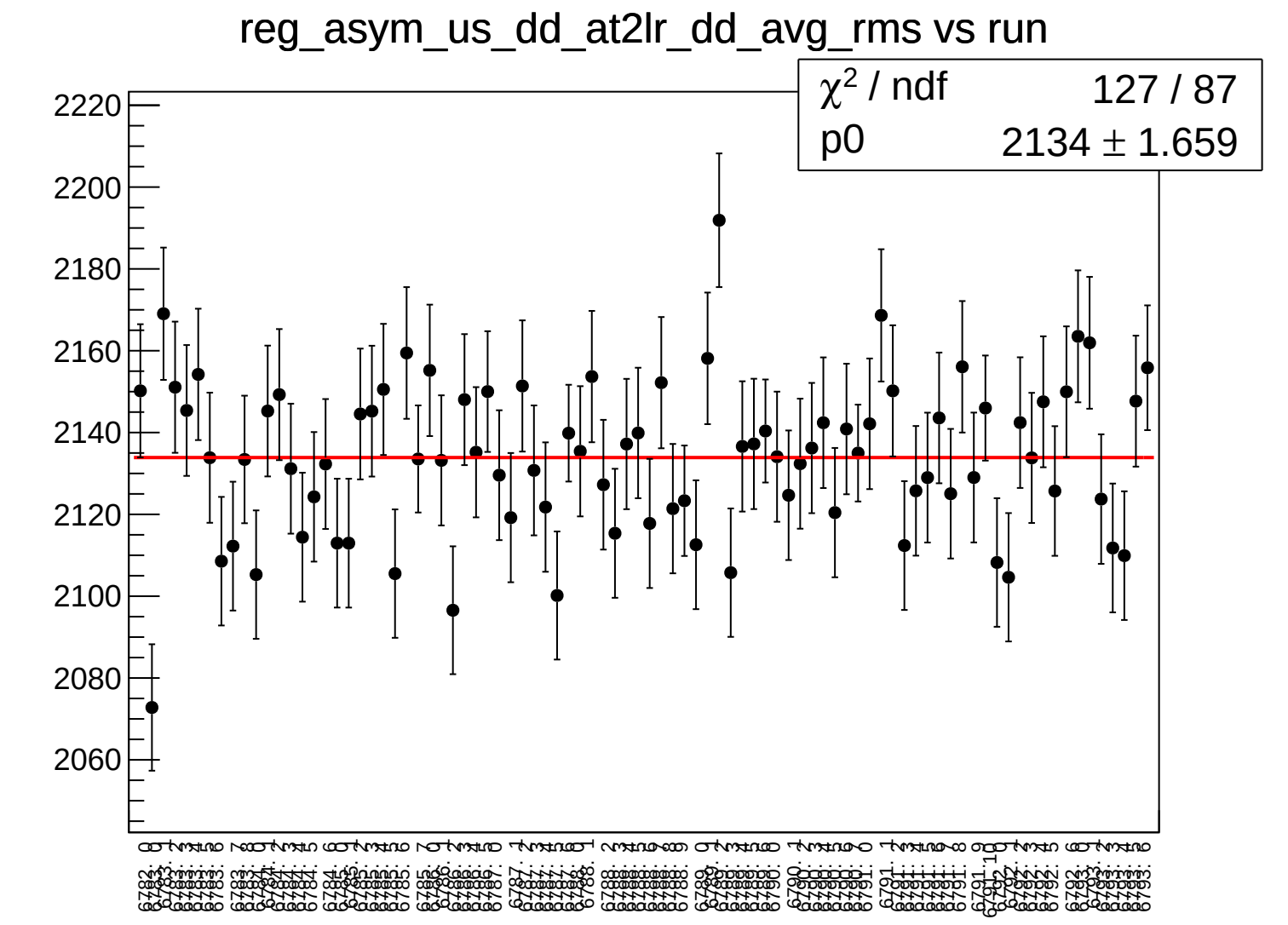

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.403e+05 / 87
p0 36.19 ± 0.03043
90
80
70
60
50
40
30
20
10

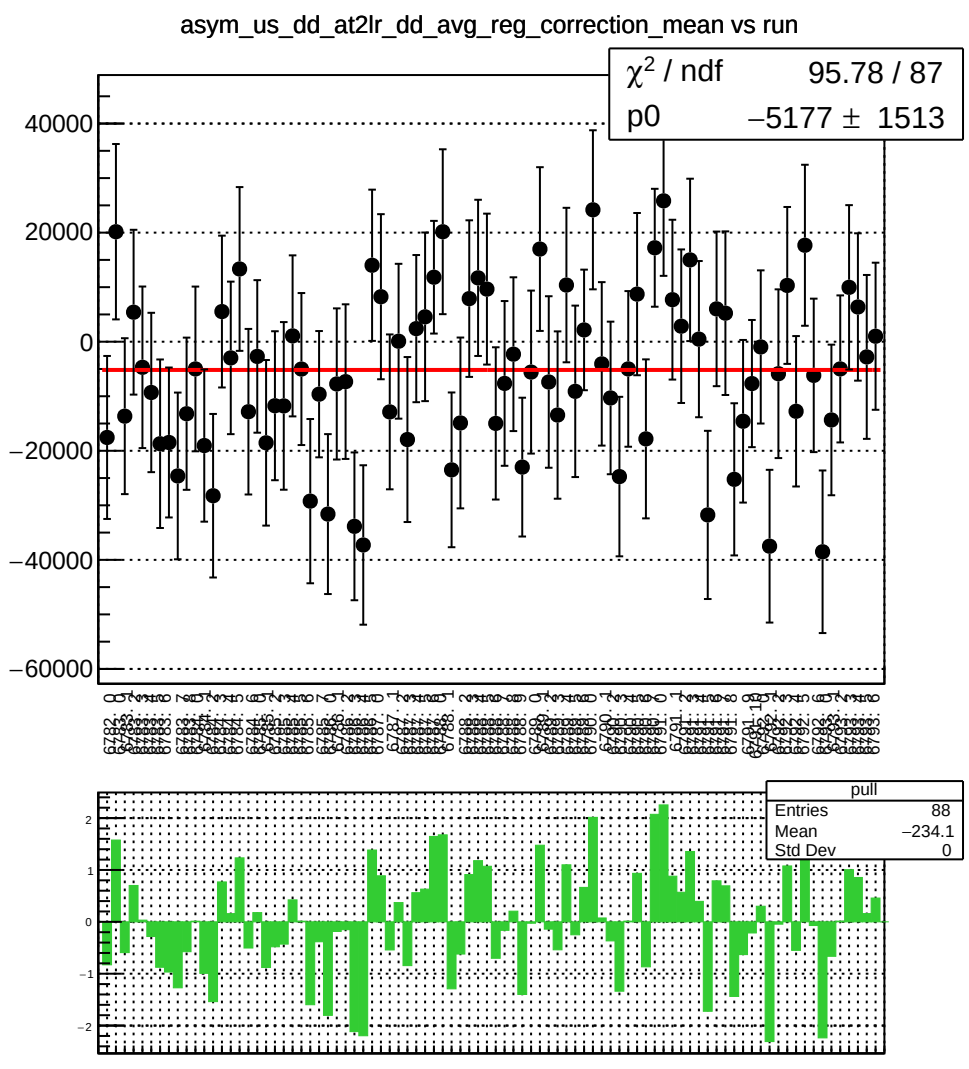

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.09 / 87
p0 −9.448e−16 ± 2.04e−14
pull
Entries 88
Mean −14.22
Std Dev 0
pull1D
Entries 88
Mean −0.0369
Std Dev 0.9291

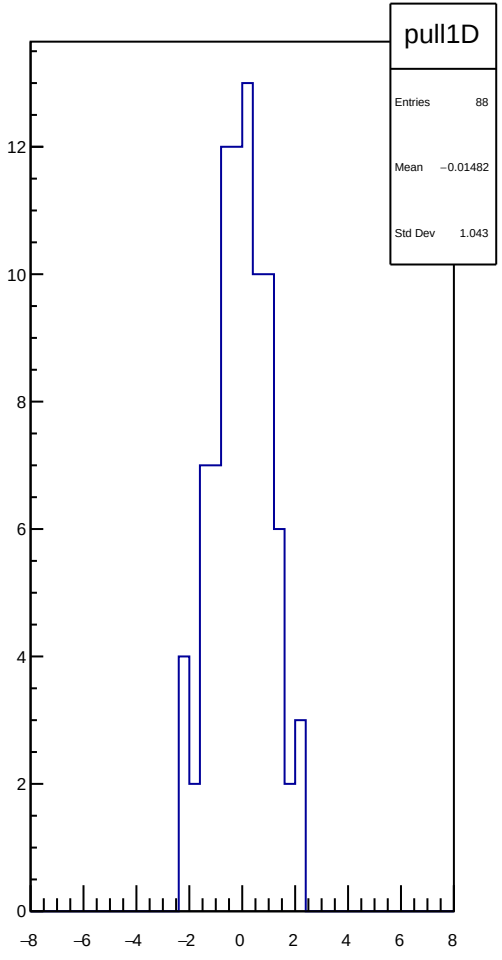

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.474e+05 / 87
p0 1.374e−11 ± 1.442e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

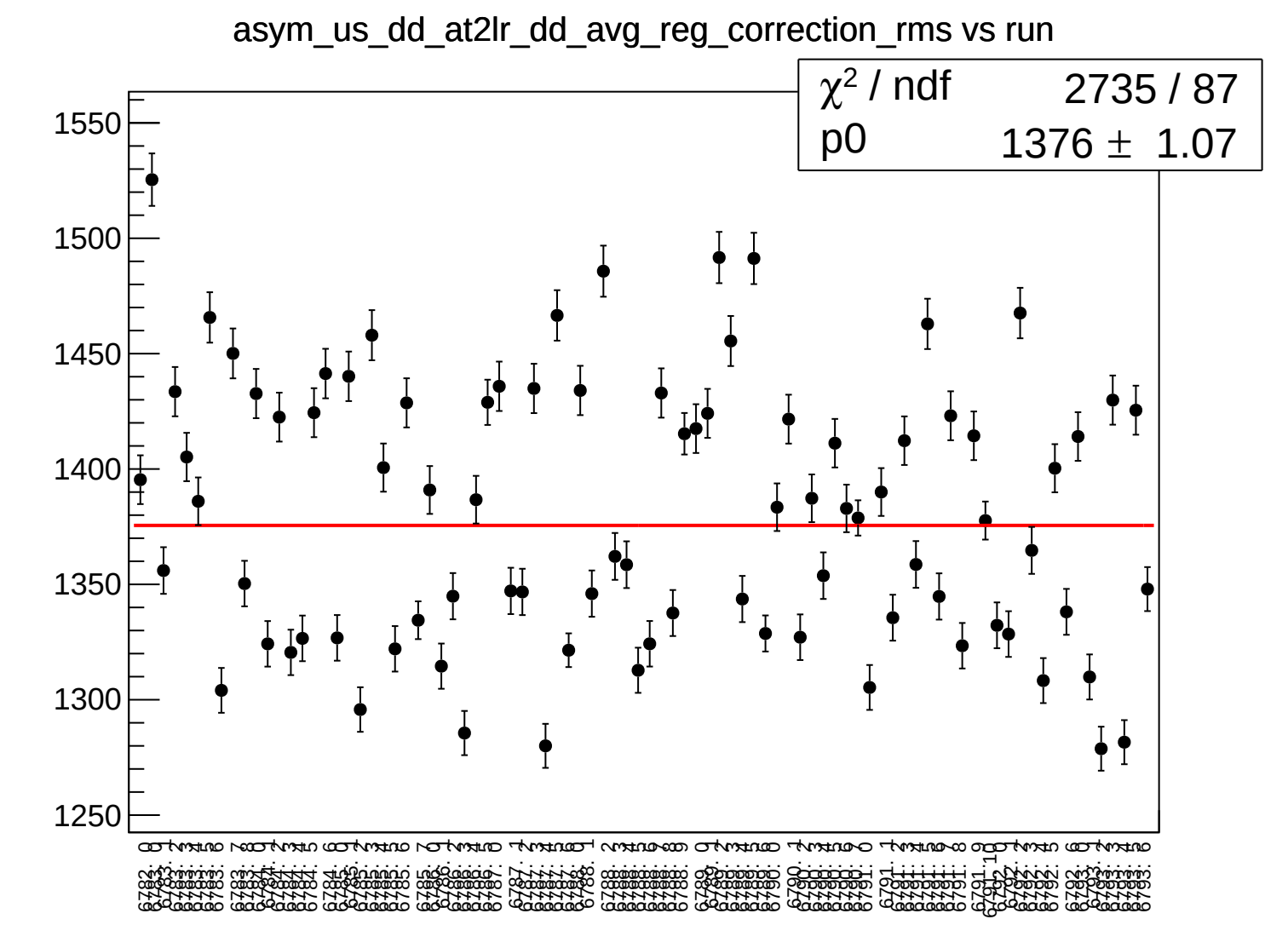

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.27 / 87
p0 −1686 ± 2346
pull
Entries 88
Mean 210.7
Std Dev 0

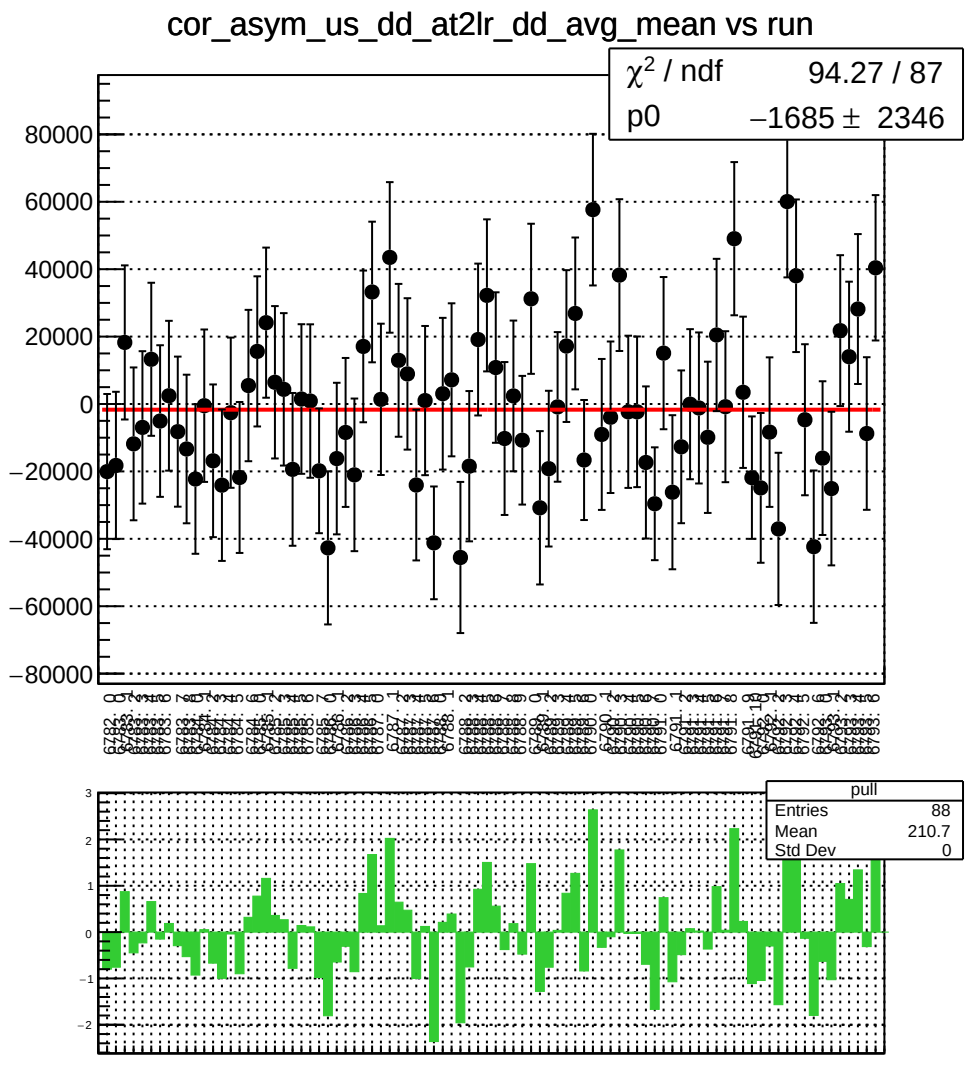

pull1D
Entries 88
Mean 0.02147
Std Dev 1.035

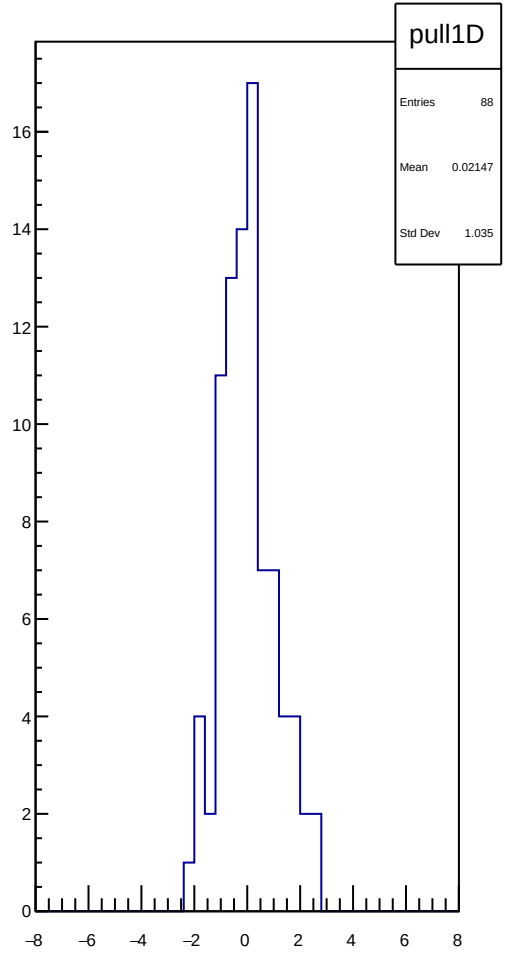

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 127 / 87
p0 2134 ± 1.659
2220
2200
2180
2160
2140
2120
2100
2080
2060

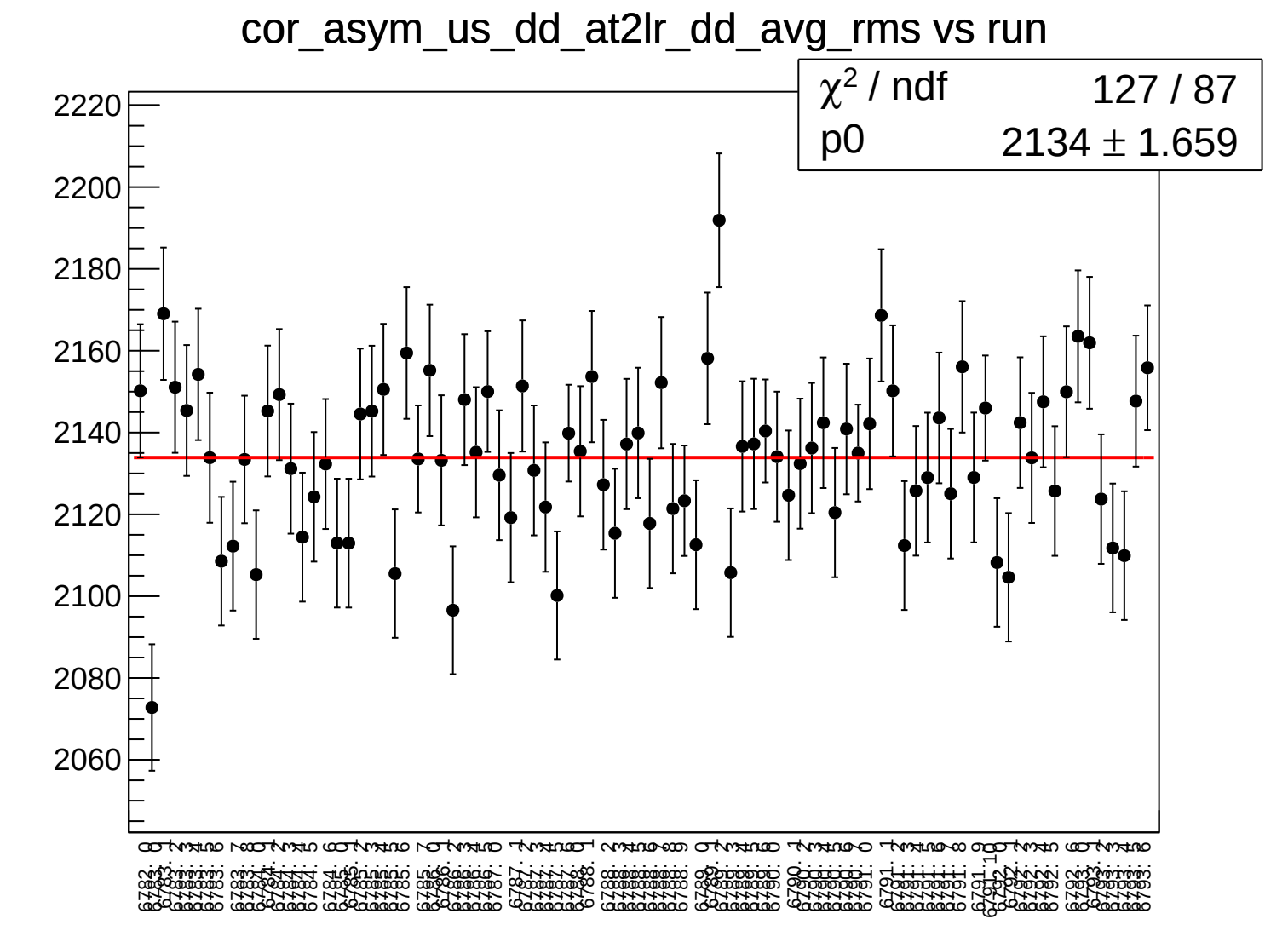

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 95.78 / 87
p0 −5177 ± 1513
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −234.1
Std Dev 0
2
1
0
−1
−2

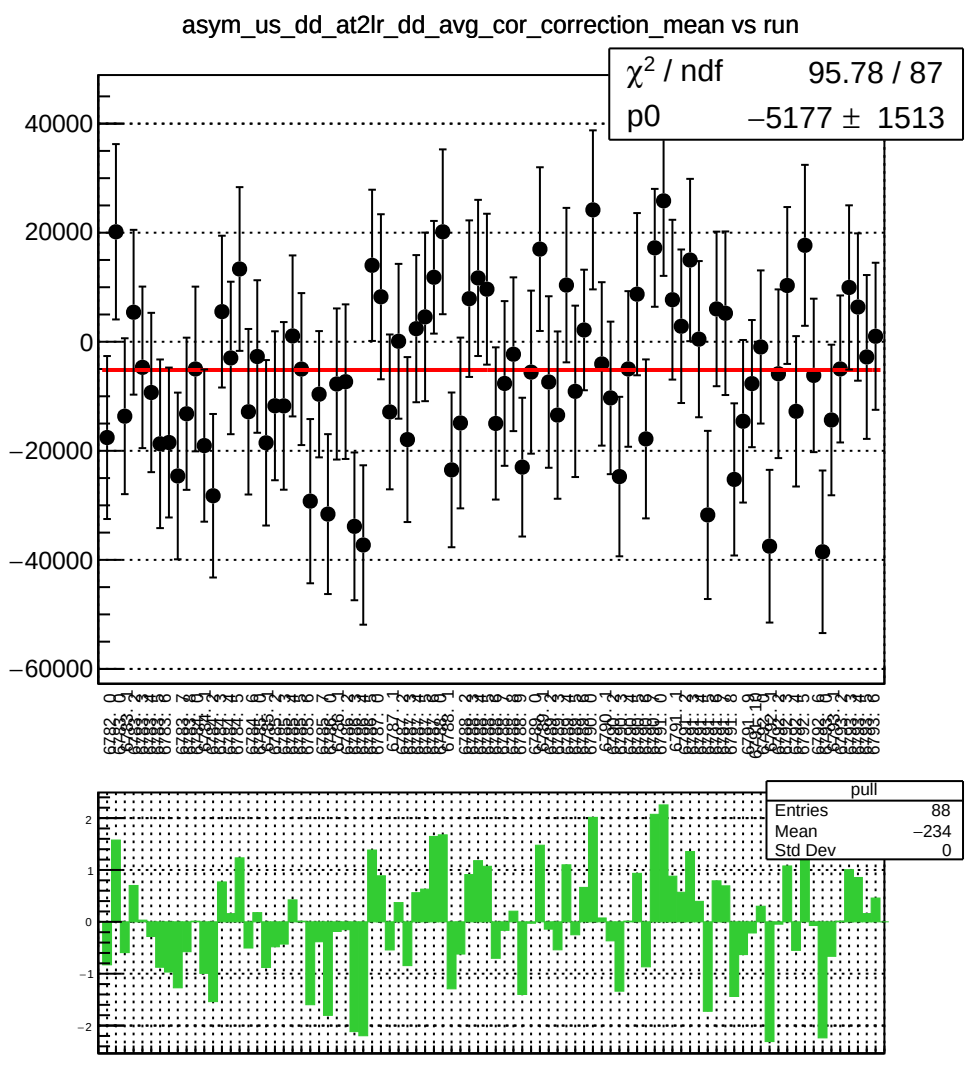

pull1D
Entries 88
Mean −0.01482
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

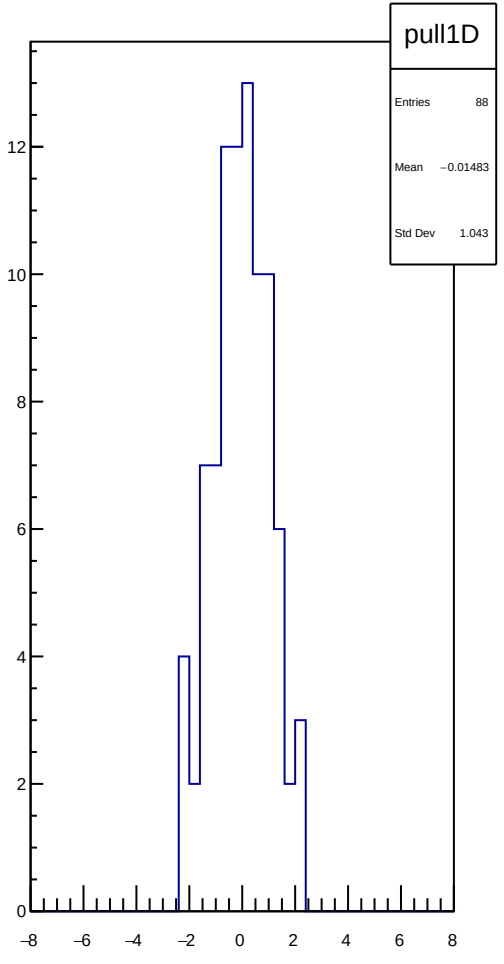

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2735 / 87
p0 1376 ± 1.07
1550
1500
1450
1400
1350
1300
1250

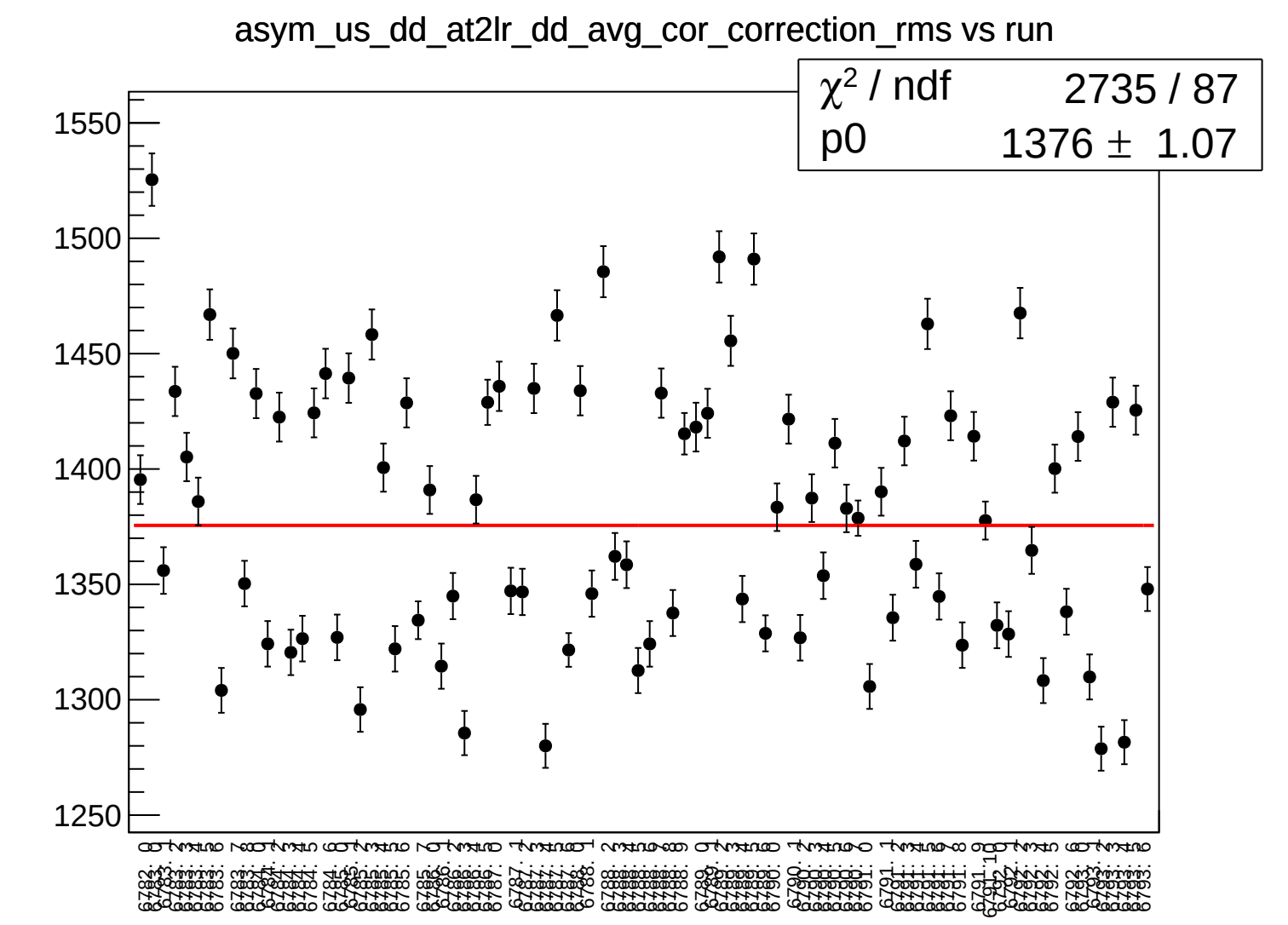

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.27 / 87
p0 −1685 ± 2346
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 210.7
Std Dev 0
3
2
1
0
−1
−2

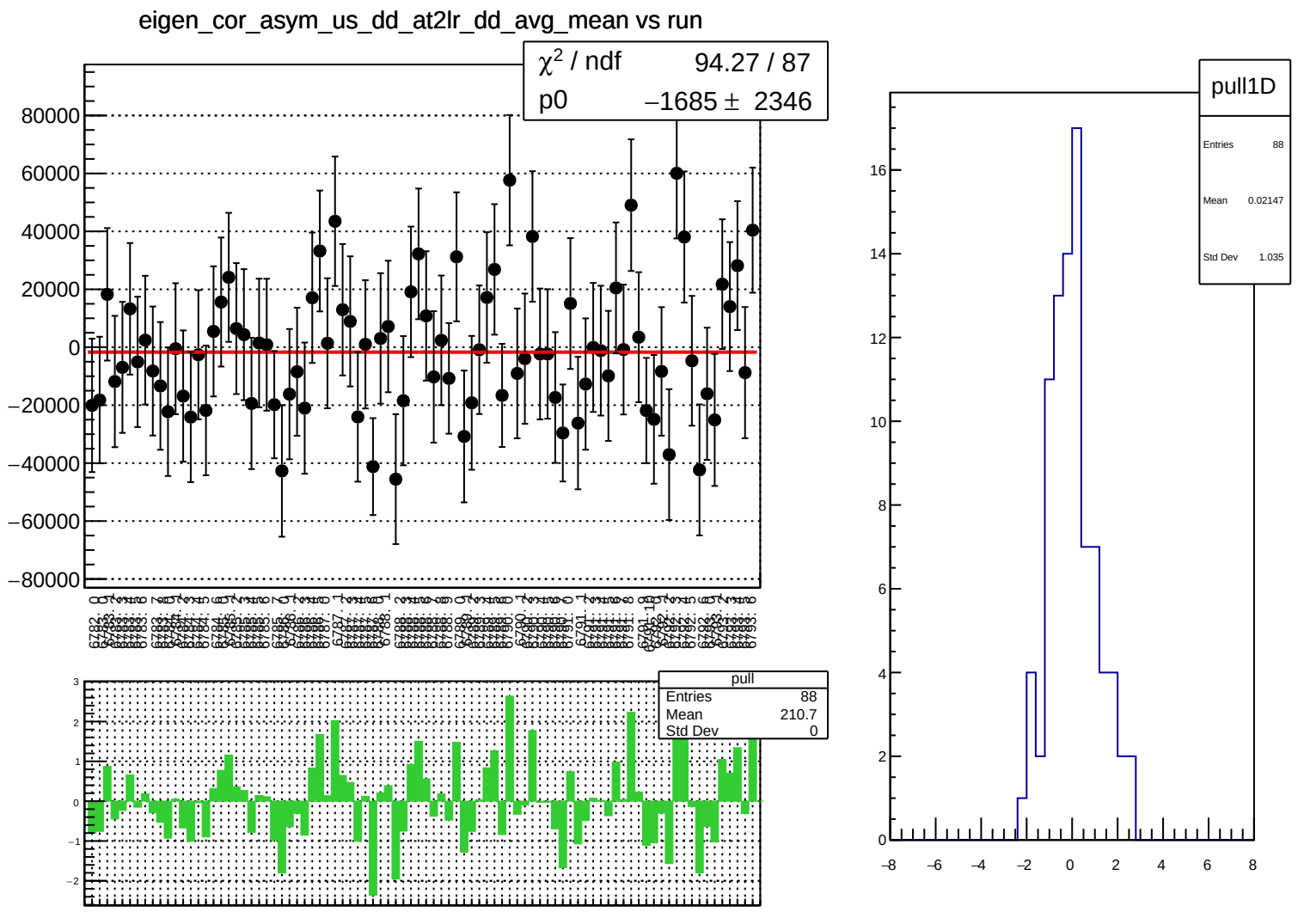

pull1D
Entries 88
Mean 0.02147
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

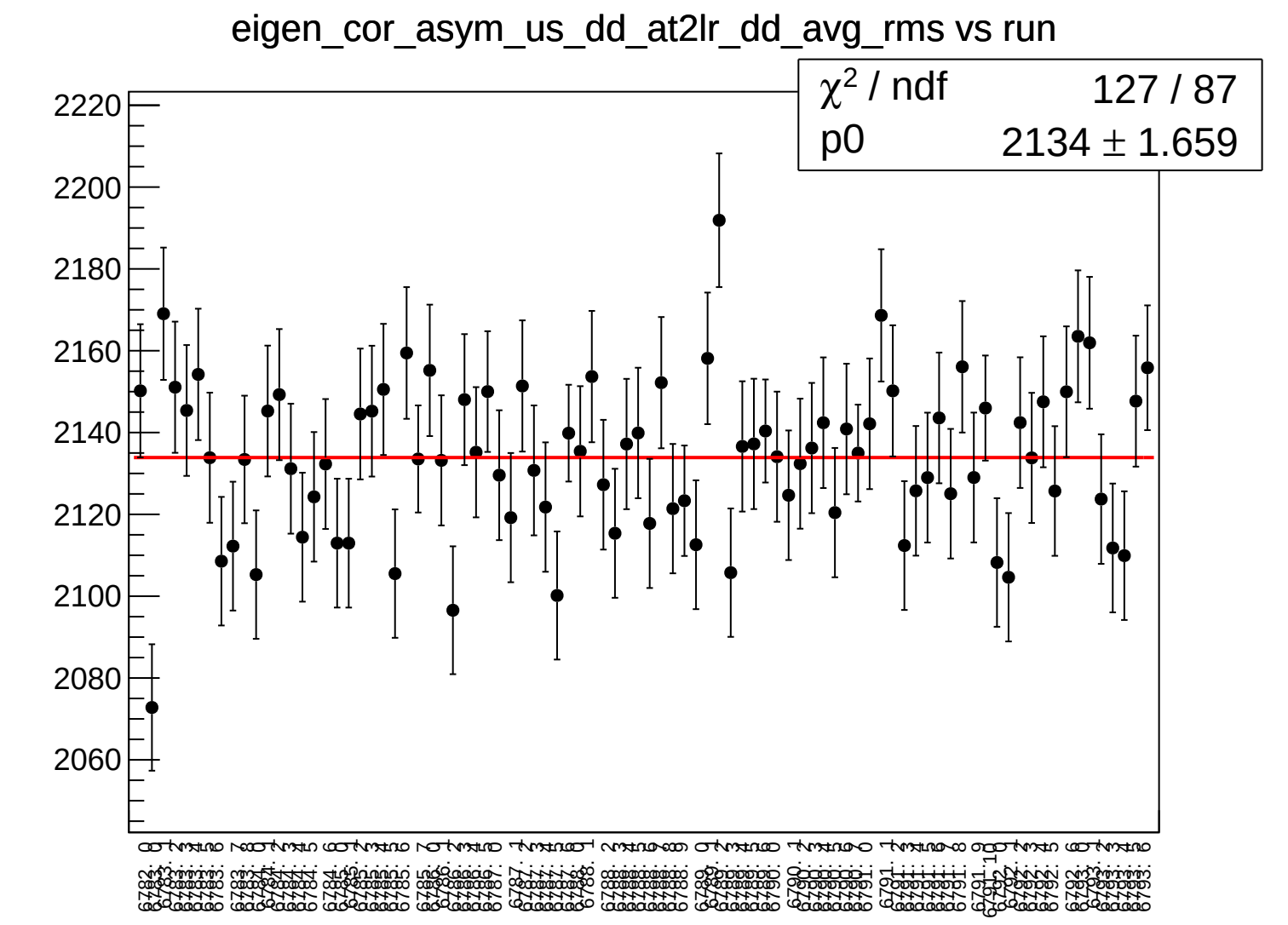

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 127 / 87
p0 2134 ± 1.659
2220
2200
2180
2160
2140
2120
2100
2080
2060

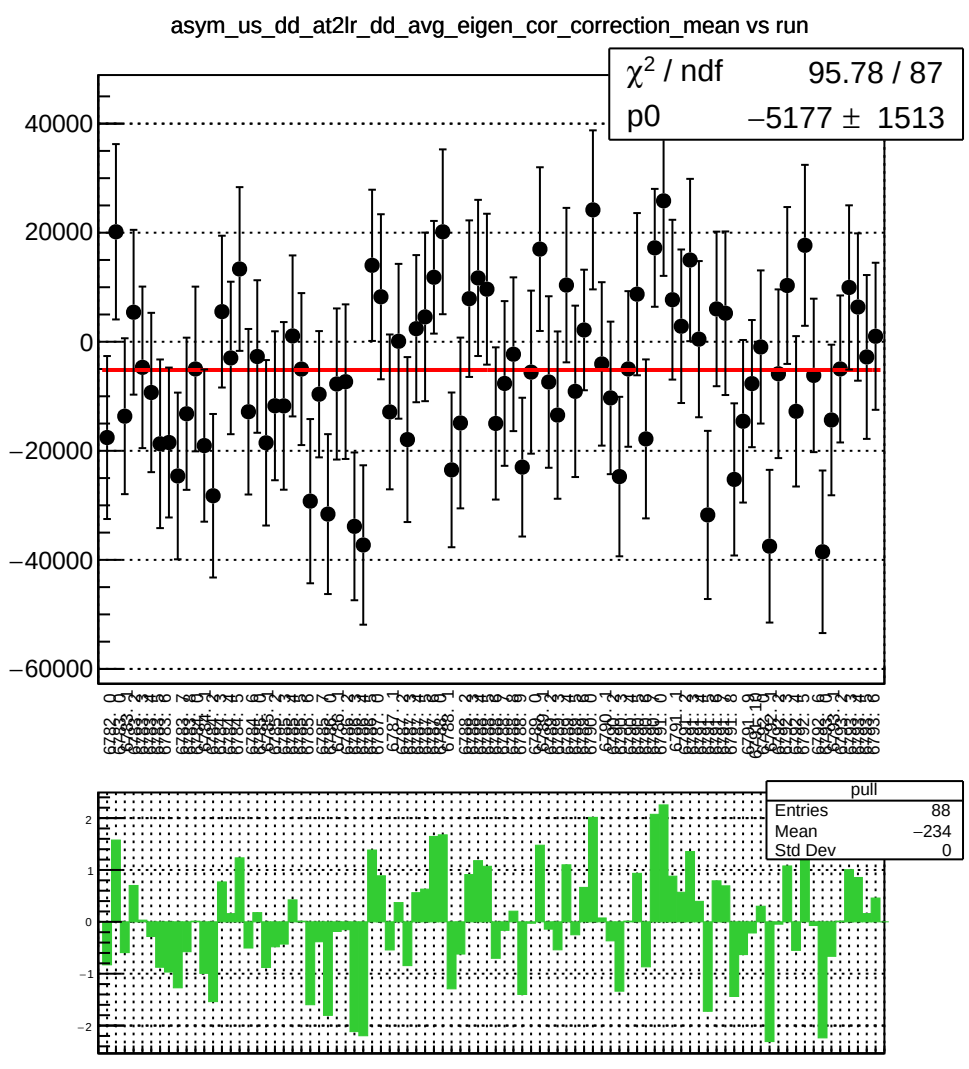

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 95.78 / 87
p0 −5177 ± 1513
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −234
Std Dev 0
2
1
0
−1
−2

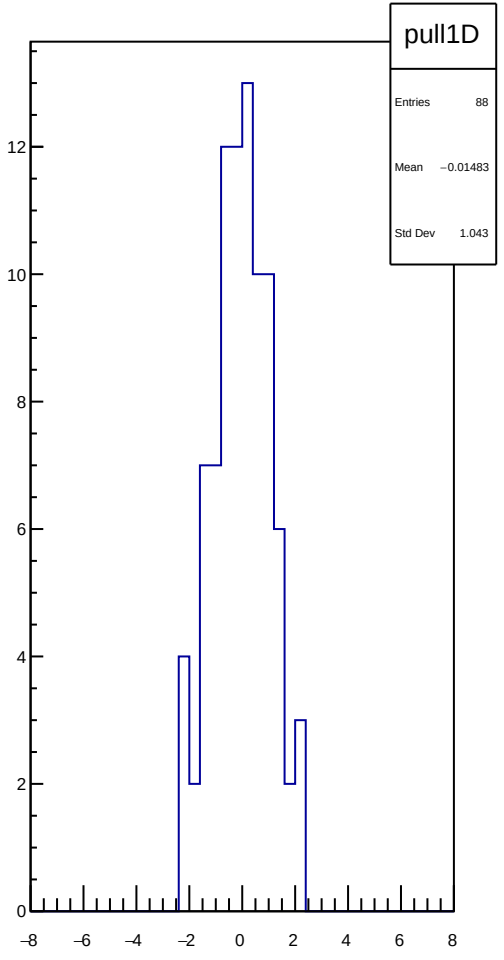

pull1D
Entries 88
Mean −0.01483
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

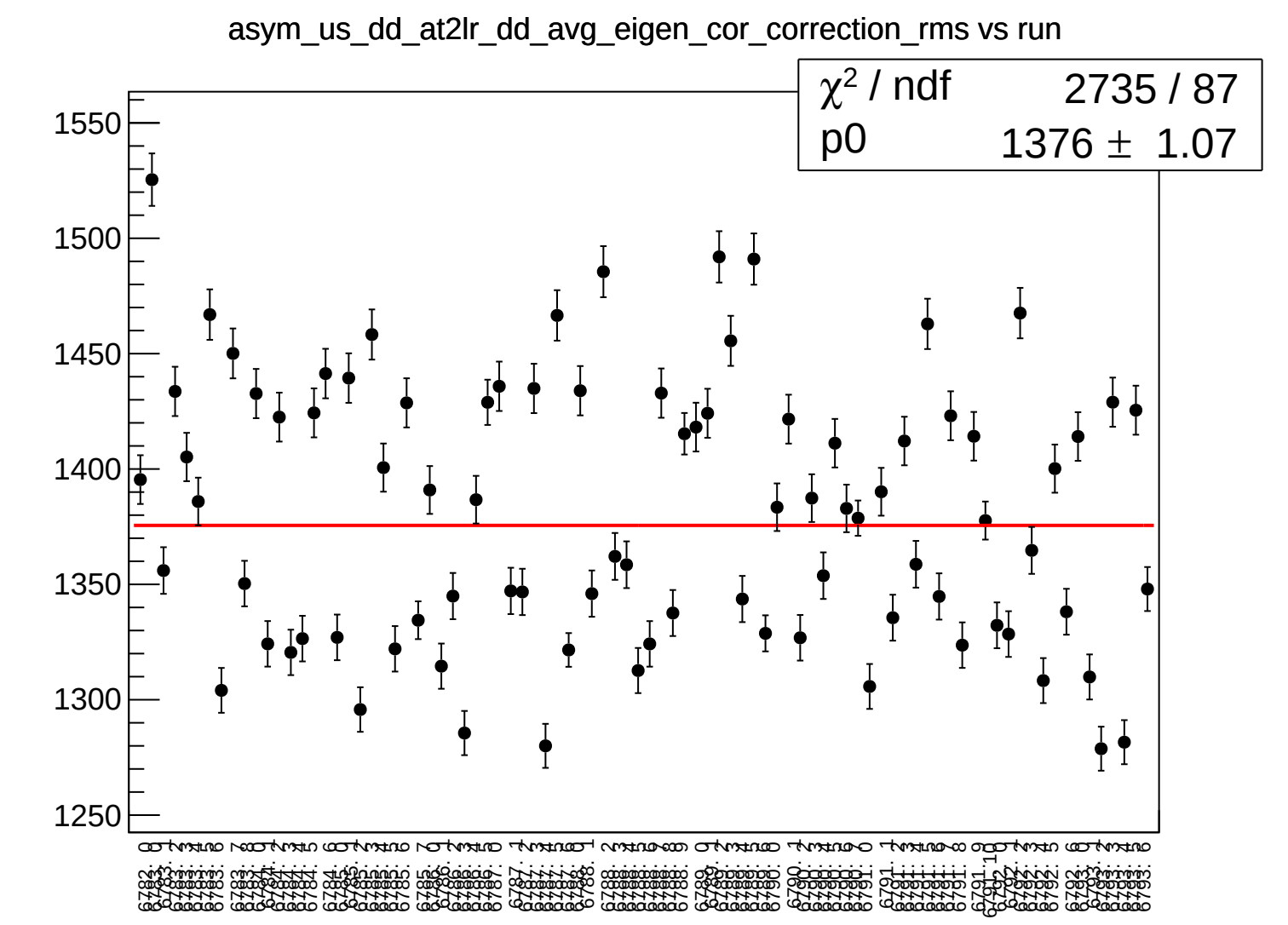

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2735 / 87
p0 1376 ± 1.07
1550
1500
1450
1400
1350
1300
1250

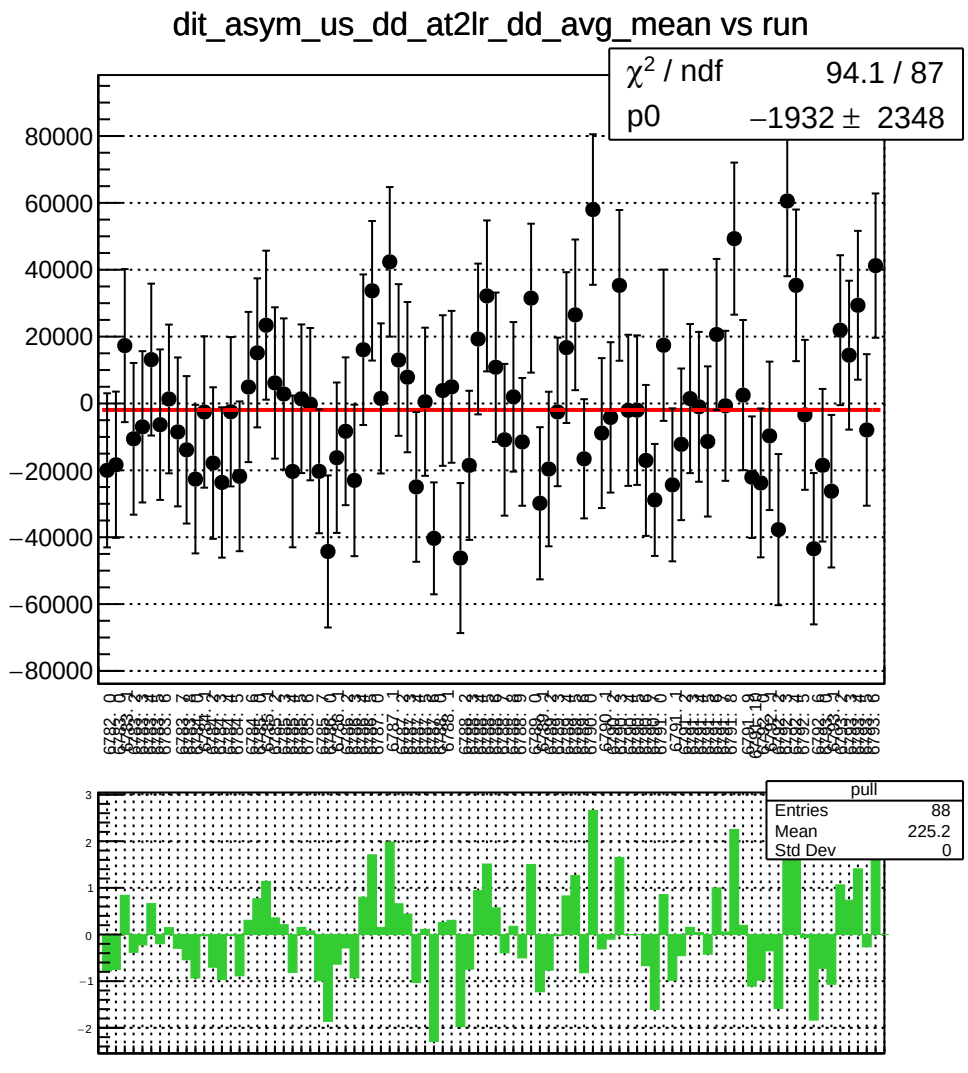

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.27 / 87
p0 −1685 ± 2346
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 210.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02147
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

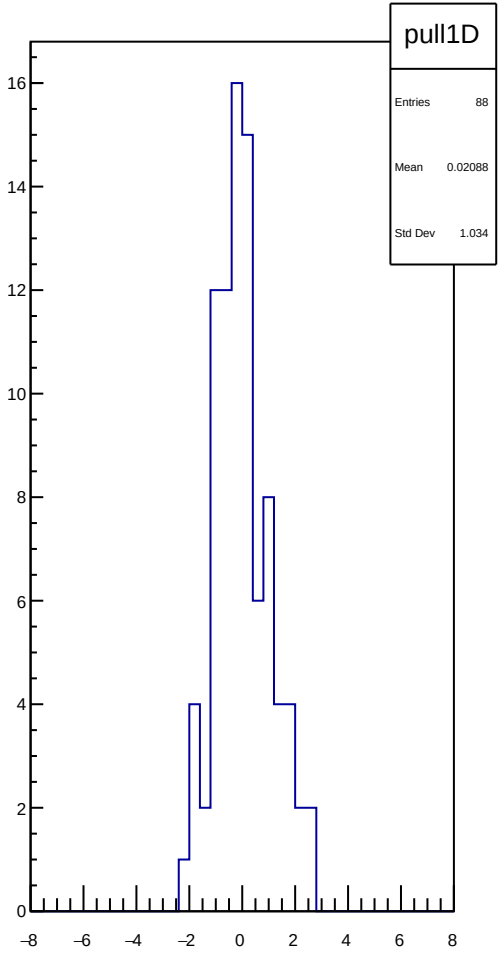

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 127 / 87
p0 2134 ± 1.659
2220
2200
2180
2160
2140
2120
2100
2080
2060

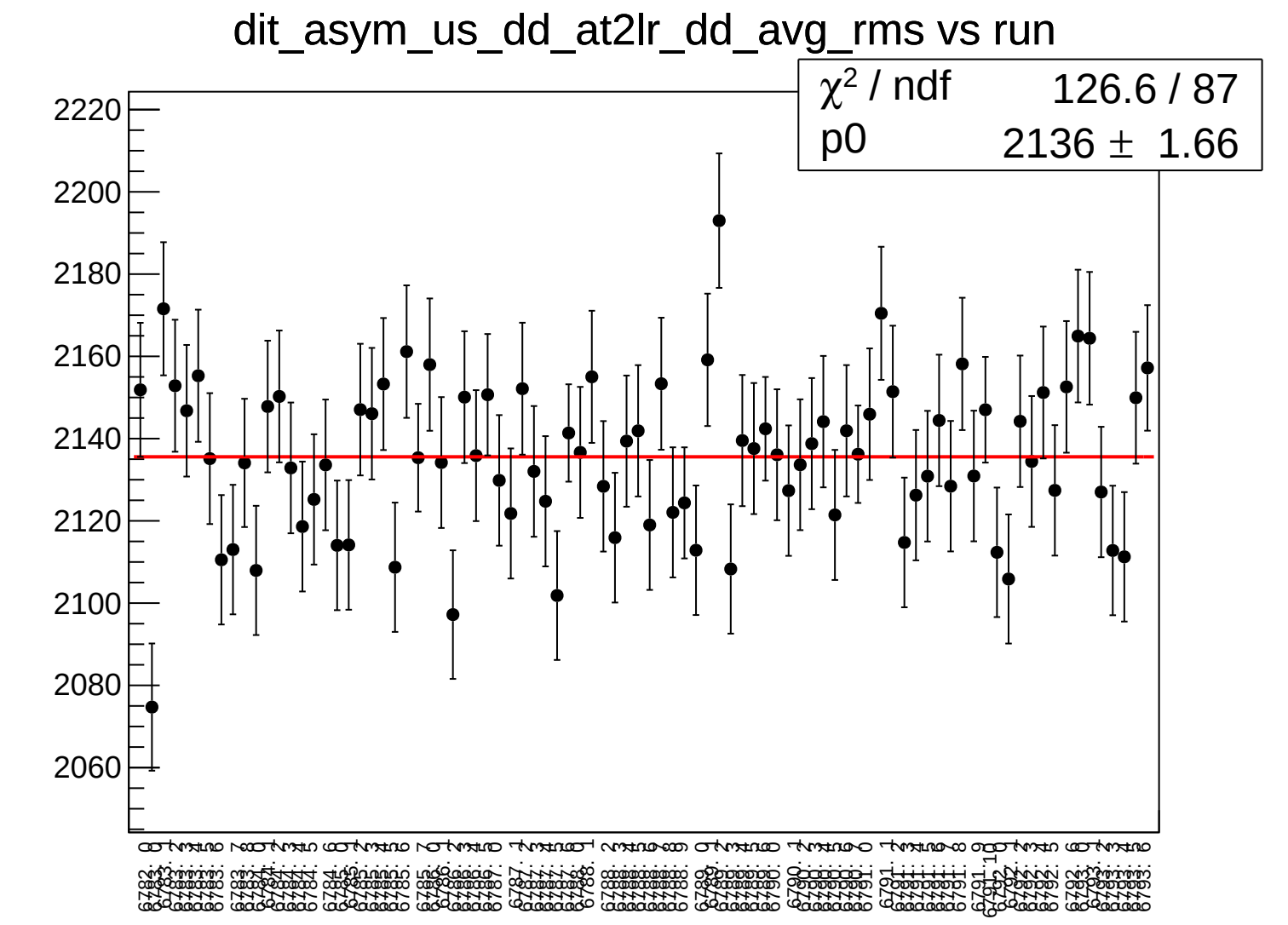

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.78 / 87
p0 −5177 ± 1513
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −234
Std Dev 0
2
1
0
−1
−2

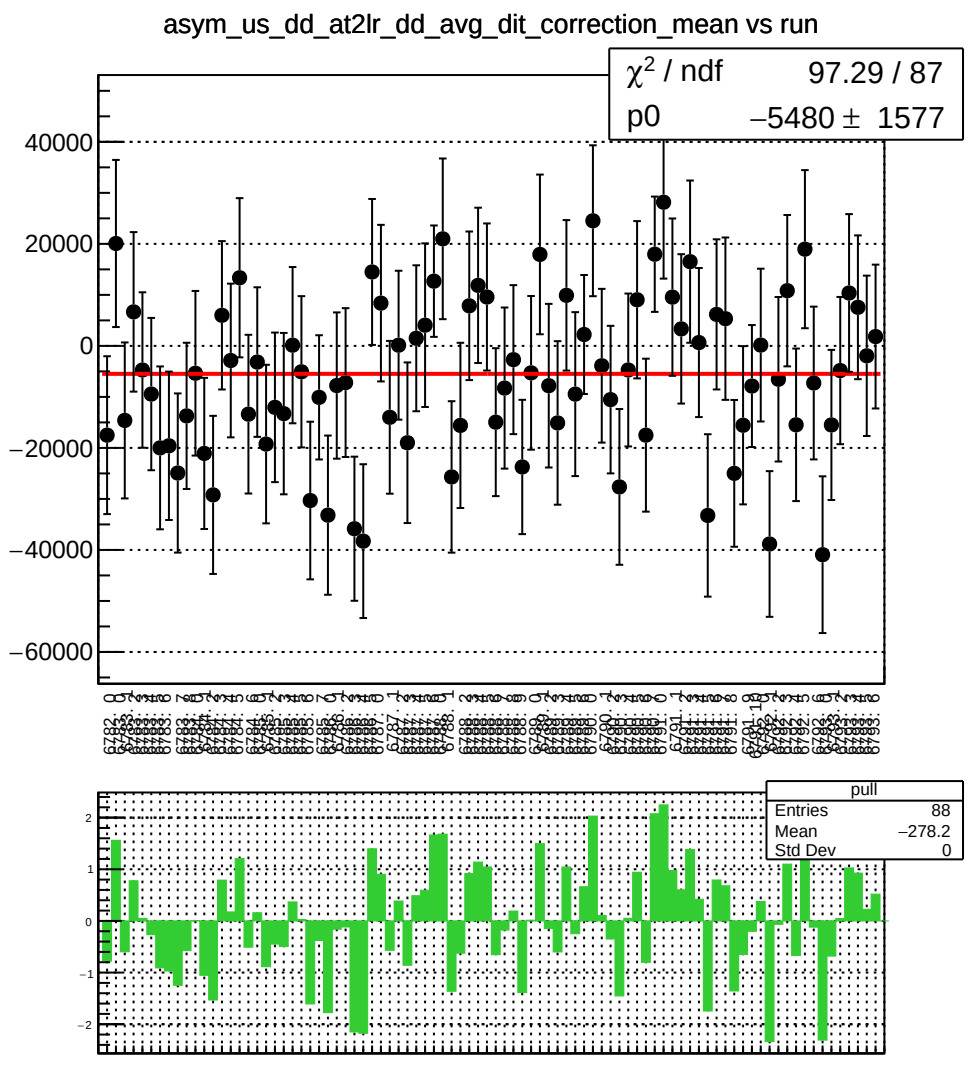

pull1D
Entries 88
Mean −0.01483
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

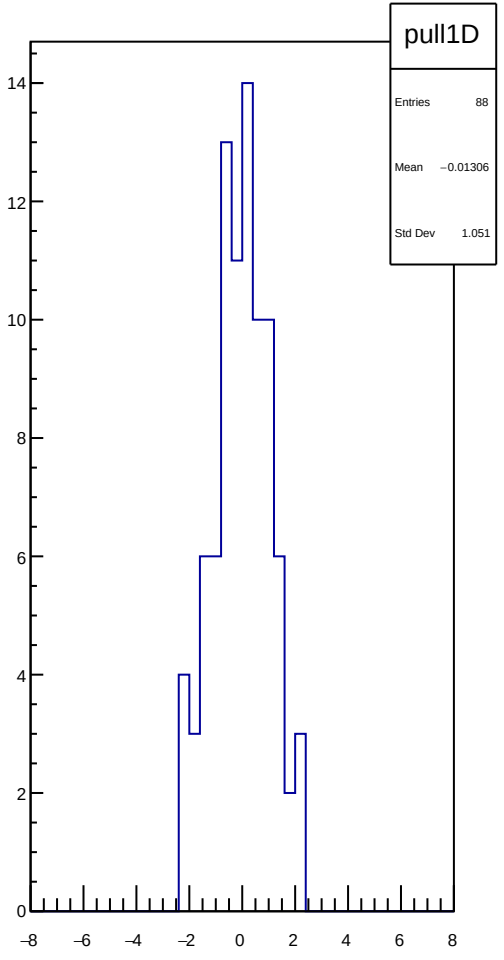

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2735 / 87
p0 1376 ± 1.07
1550
1500
1450
1400
1350
1300
1250

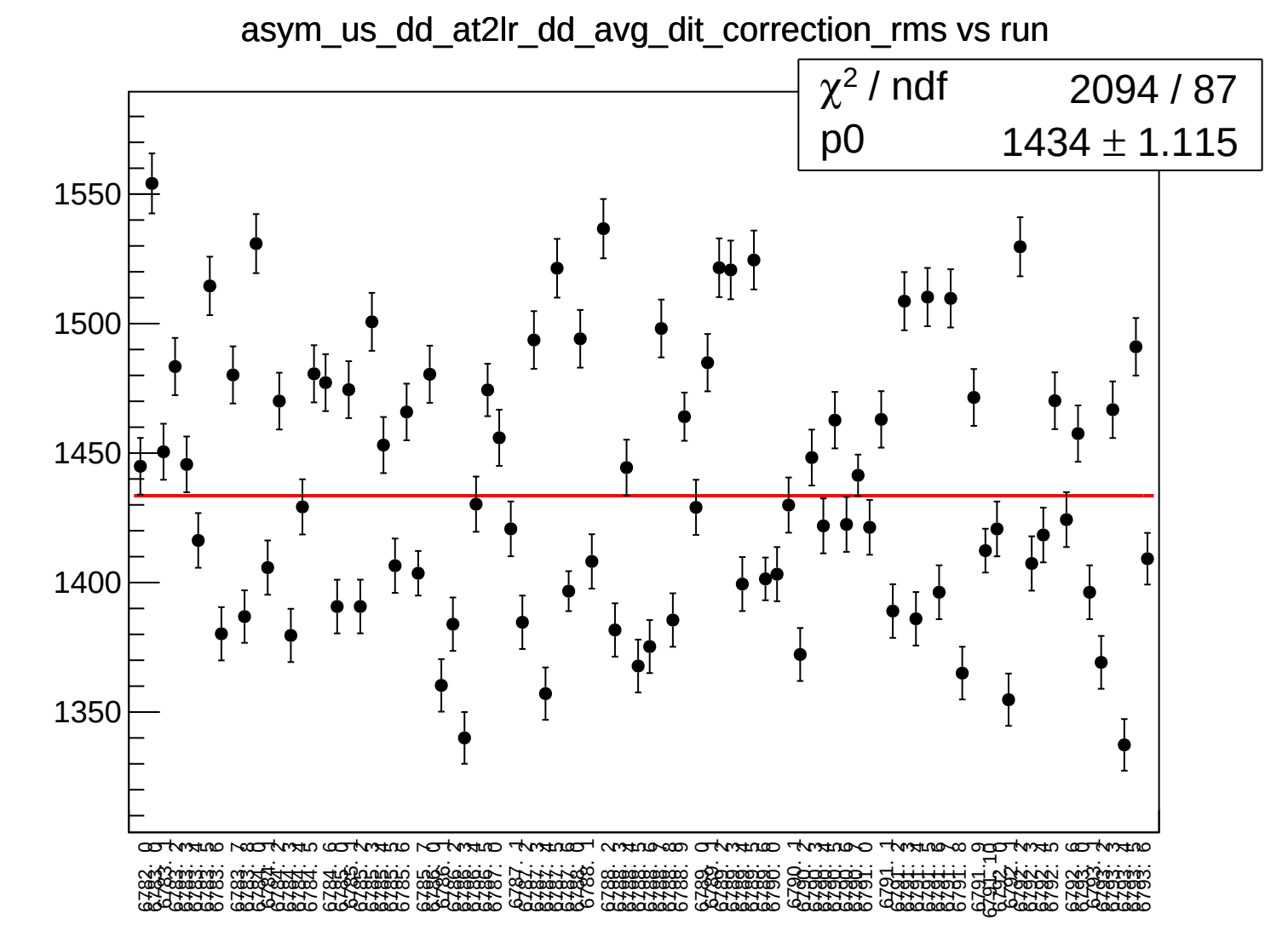

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.1 / 87
p0 −1932 ± 2348
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 225.2
Std Dev 0
3
2
1
0
−1
−2

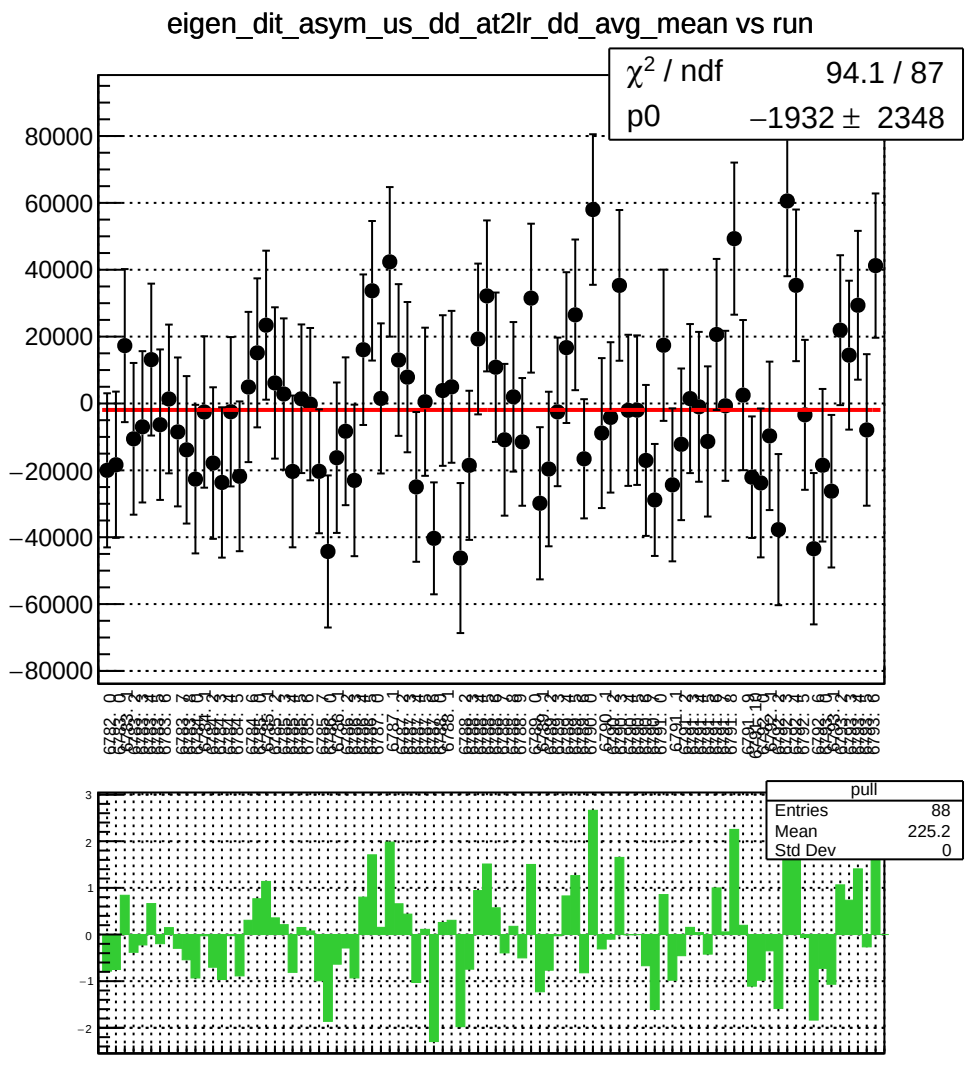

pull1D
Entries 88
Mean 0.02088
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

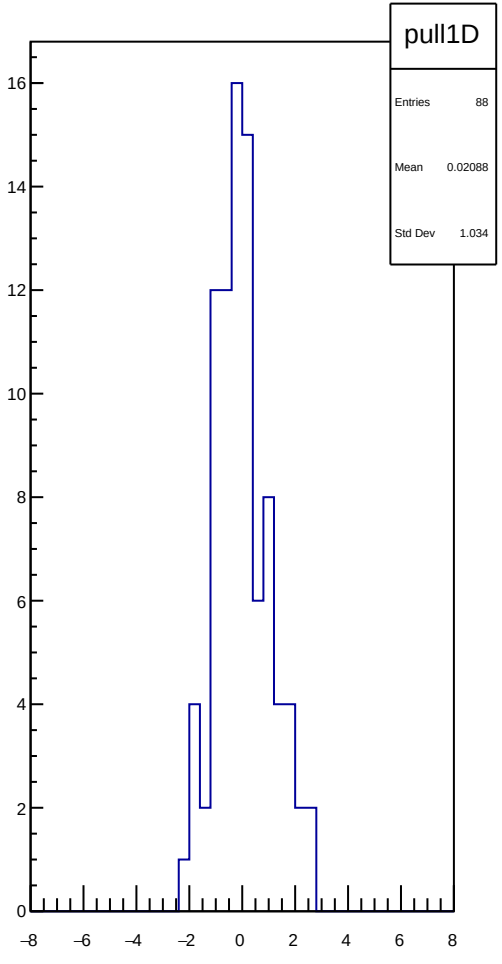

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 126.6 / 87
p0 2136 ± 1.66
2220
2200
2180
2160
2140
2120
2100
2080
2060

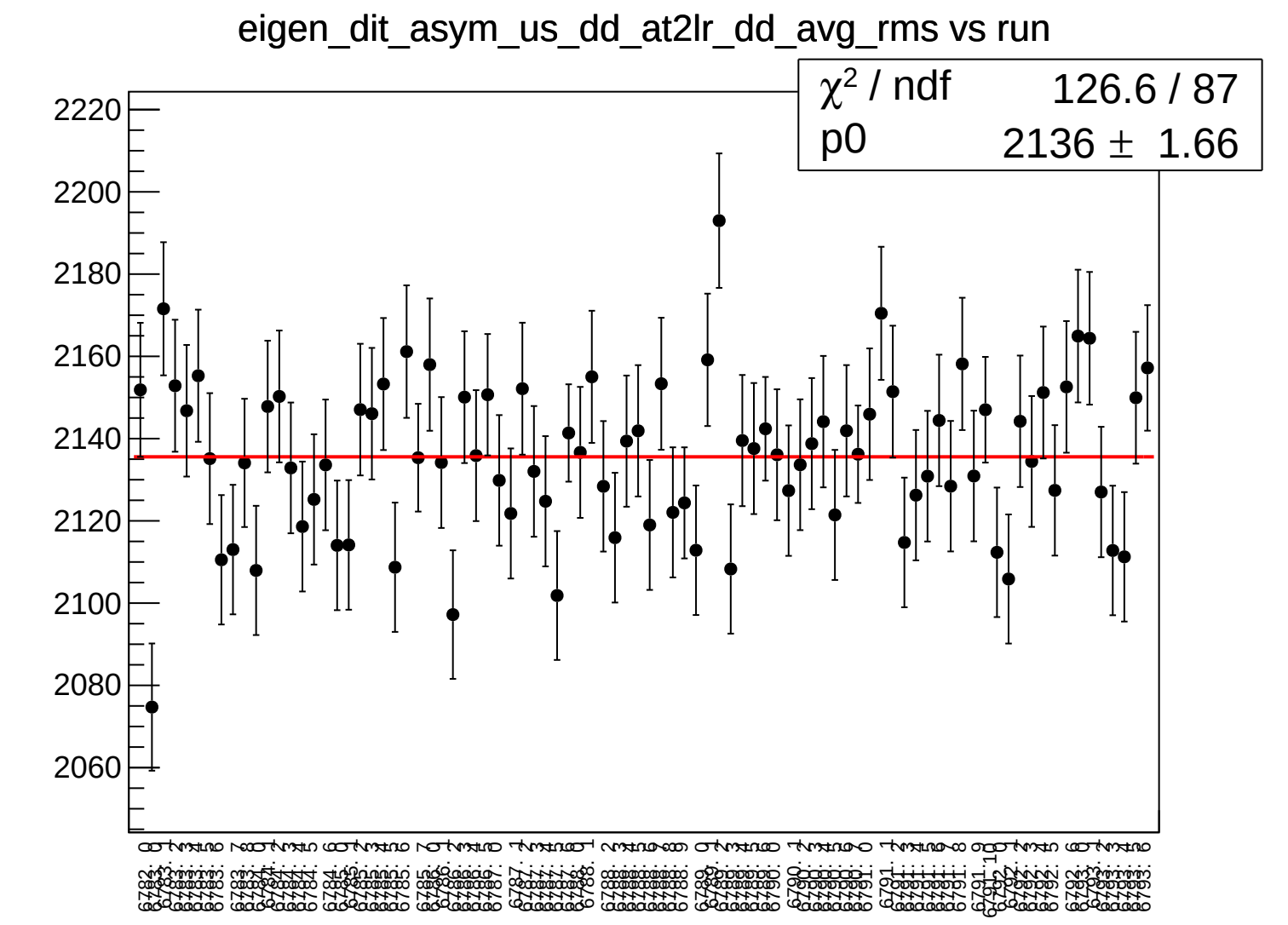

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 97.29 / 87
p0 −5480 ± 1577
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −278.2
Std Dev 0
2
1
0
−1
−2

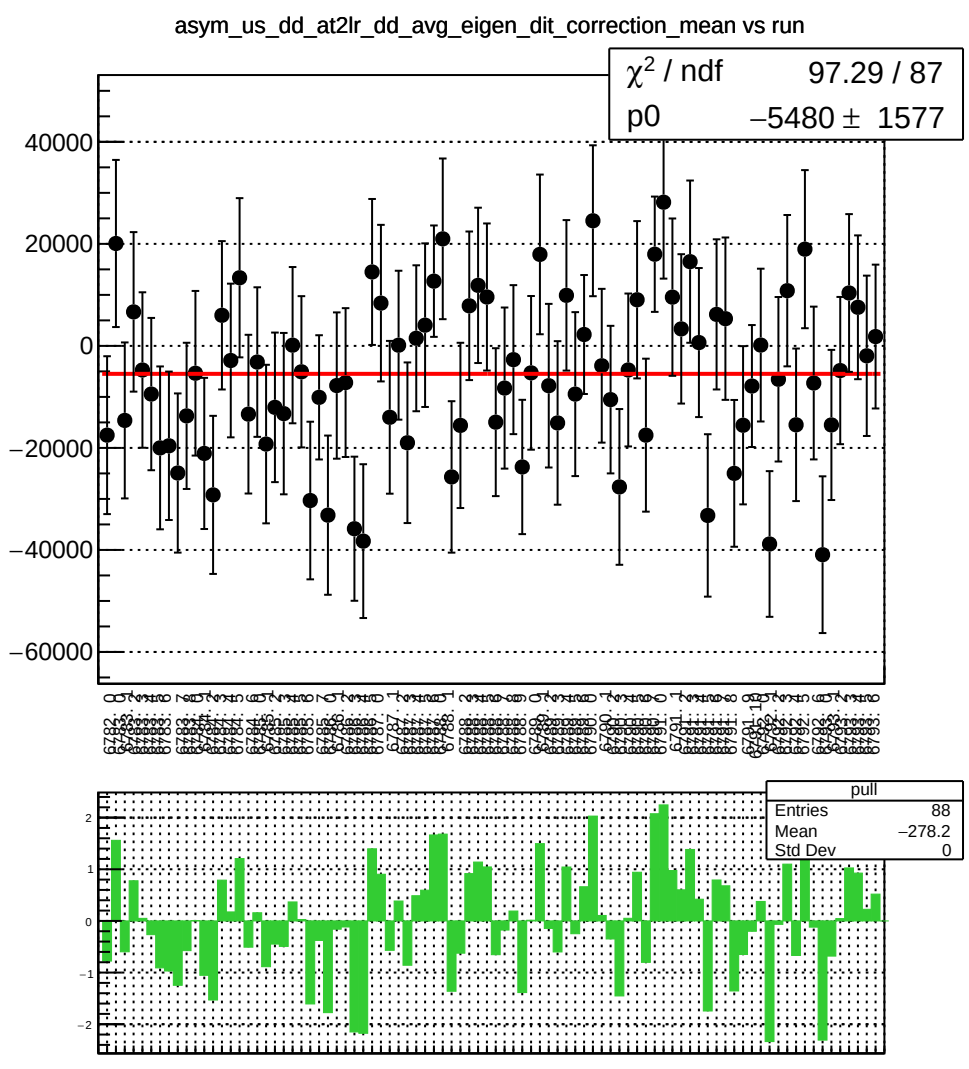

pull1D
Entries 88
Mean −0.01306
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

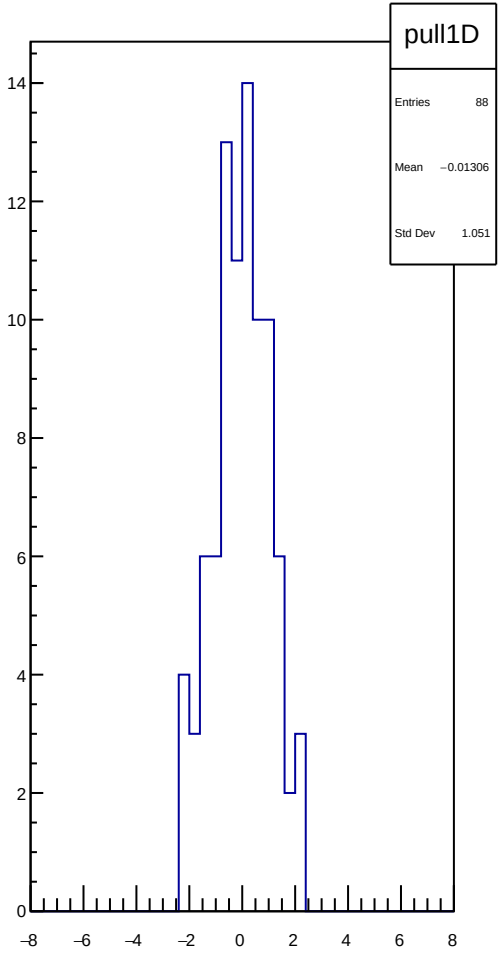

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2094 / 87
p0 1434 ± 1.115
1550
1500
1450
1400
1350

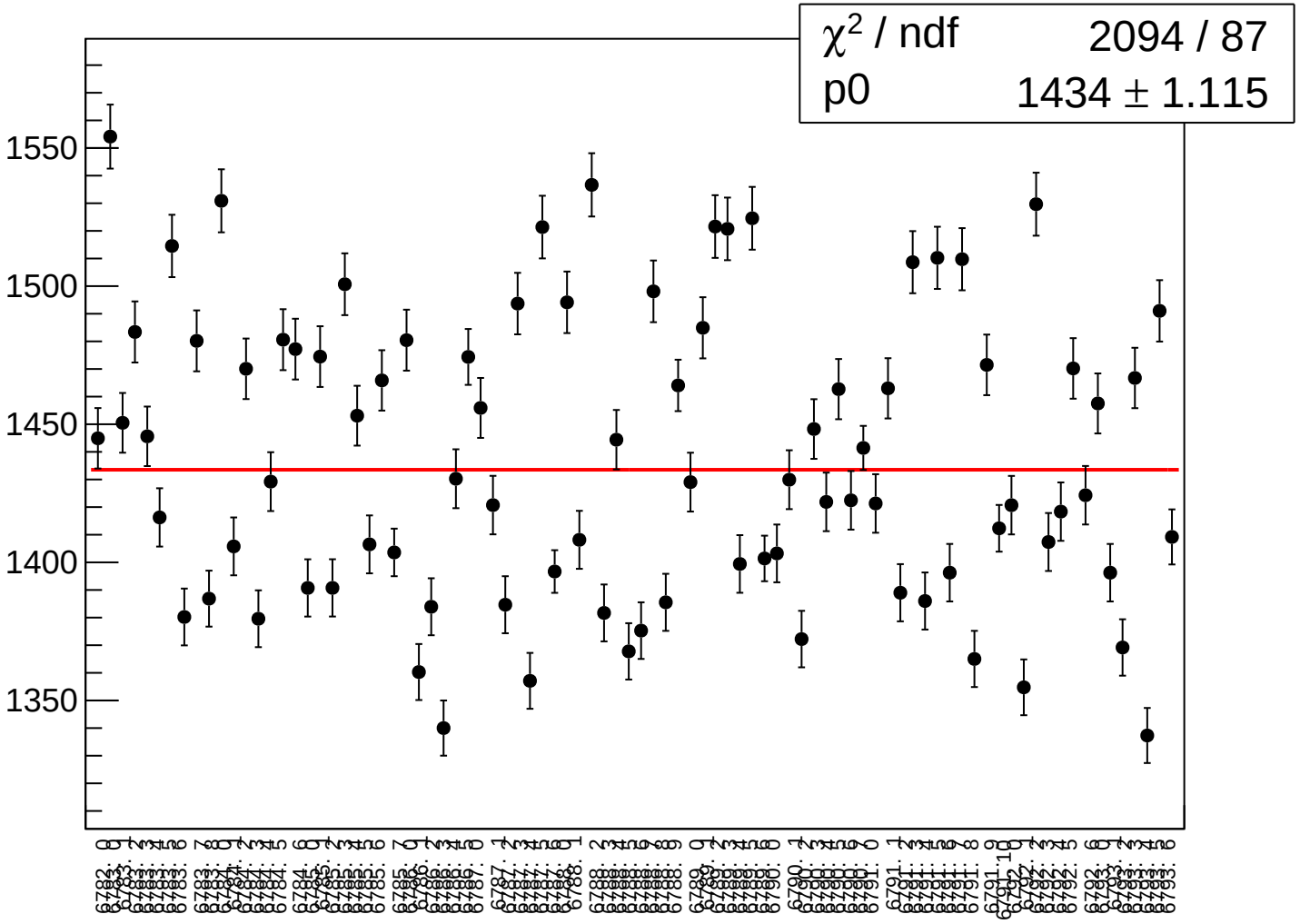

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.1 / 87
p0 −1932 ± 2348
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 225.2
Std Dev 0
3
2
1
0
−1
−2

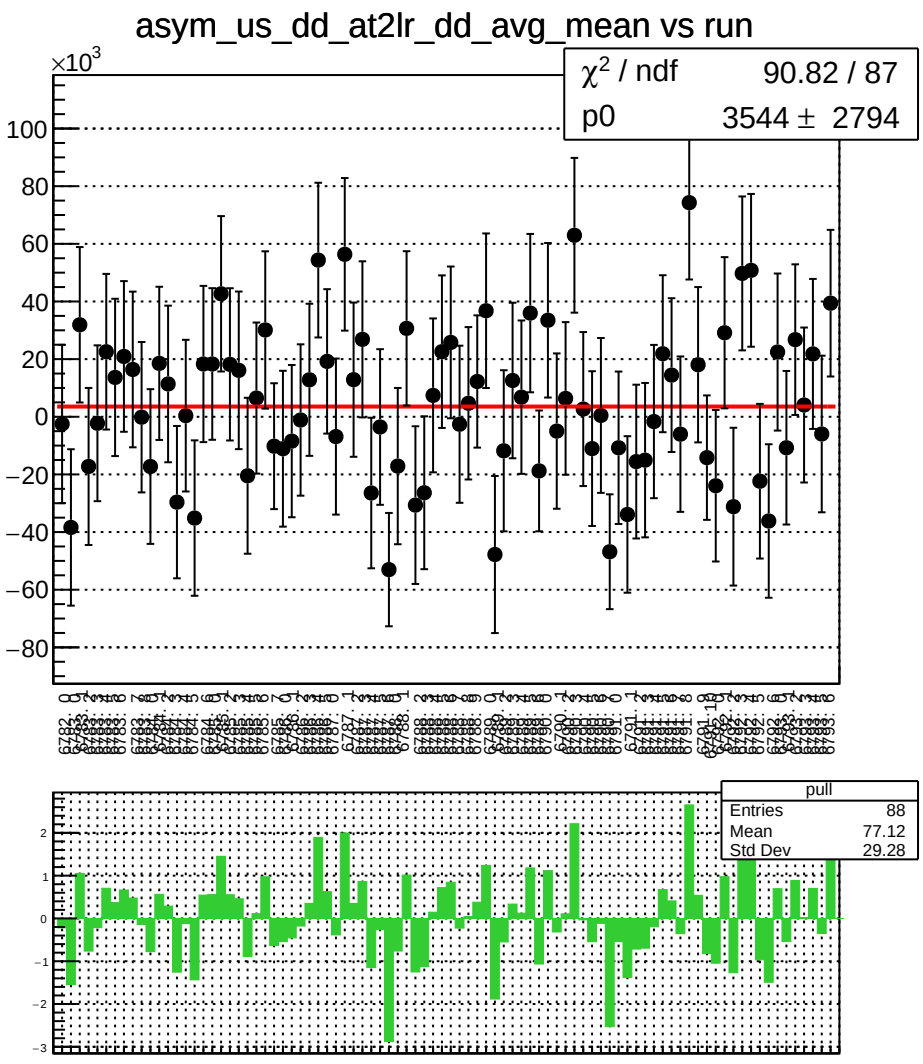

pull1D
Entries 88
Mean 0.02088
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

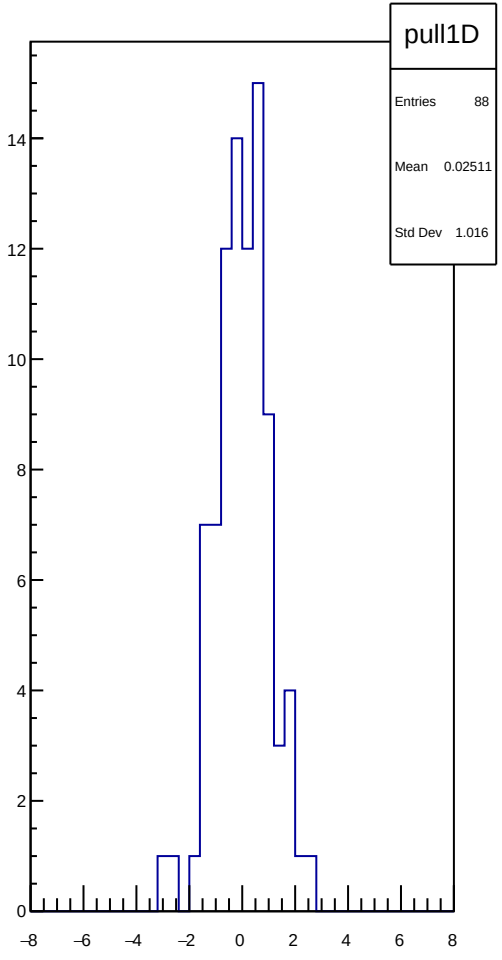

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 126.6 / 87
p0 2136 ± 1.66
2220
2200
2180
2160
2140
2120
2100
2080
2060

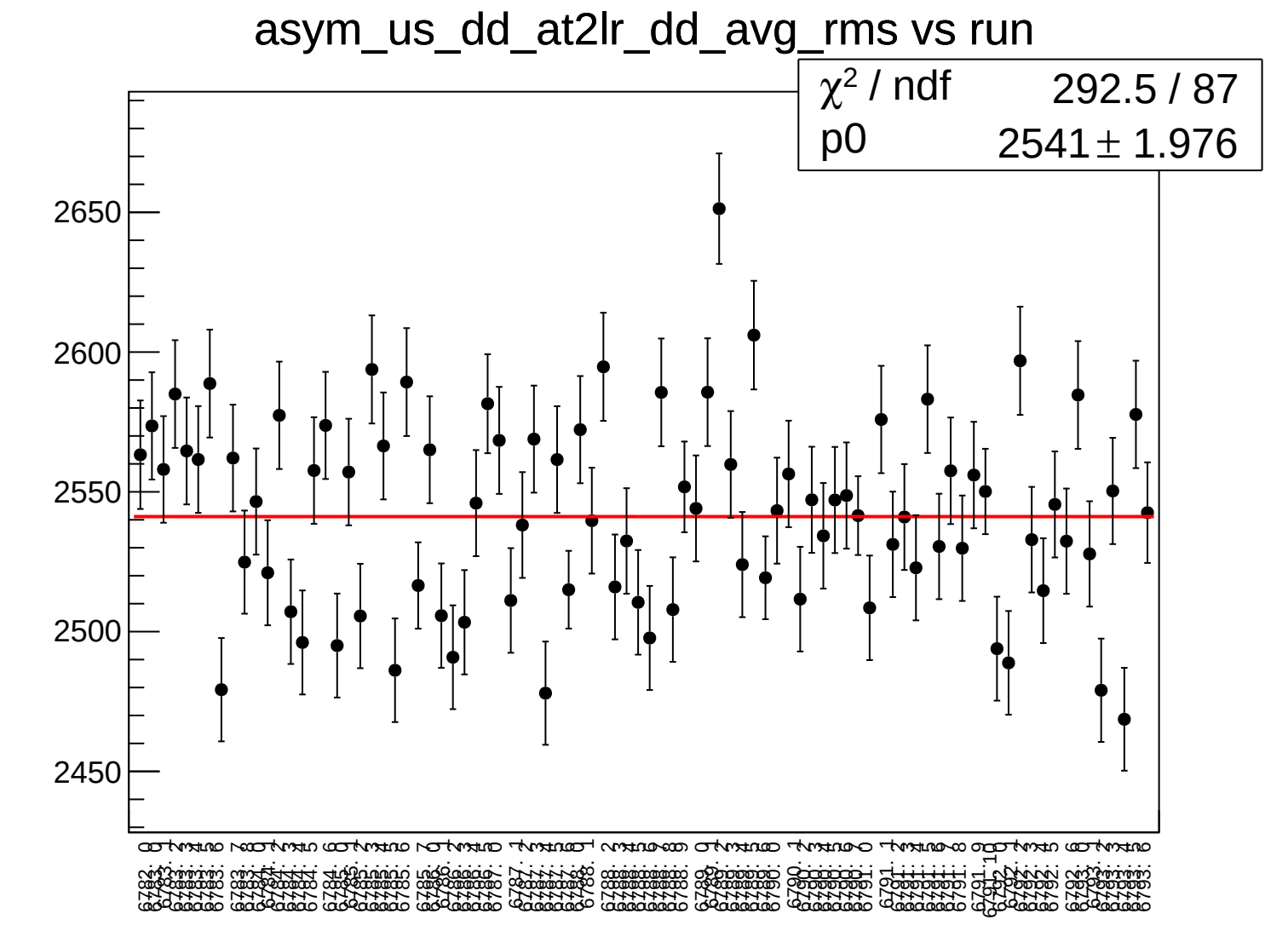

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.29 / 87
p0 −5480 ± 1577
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −278.2
Std Dev 0
2
1
0
−1
−2

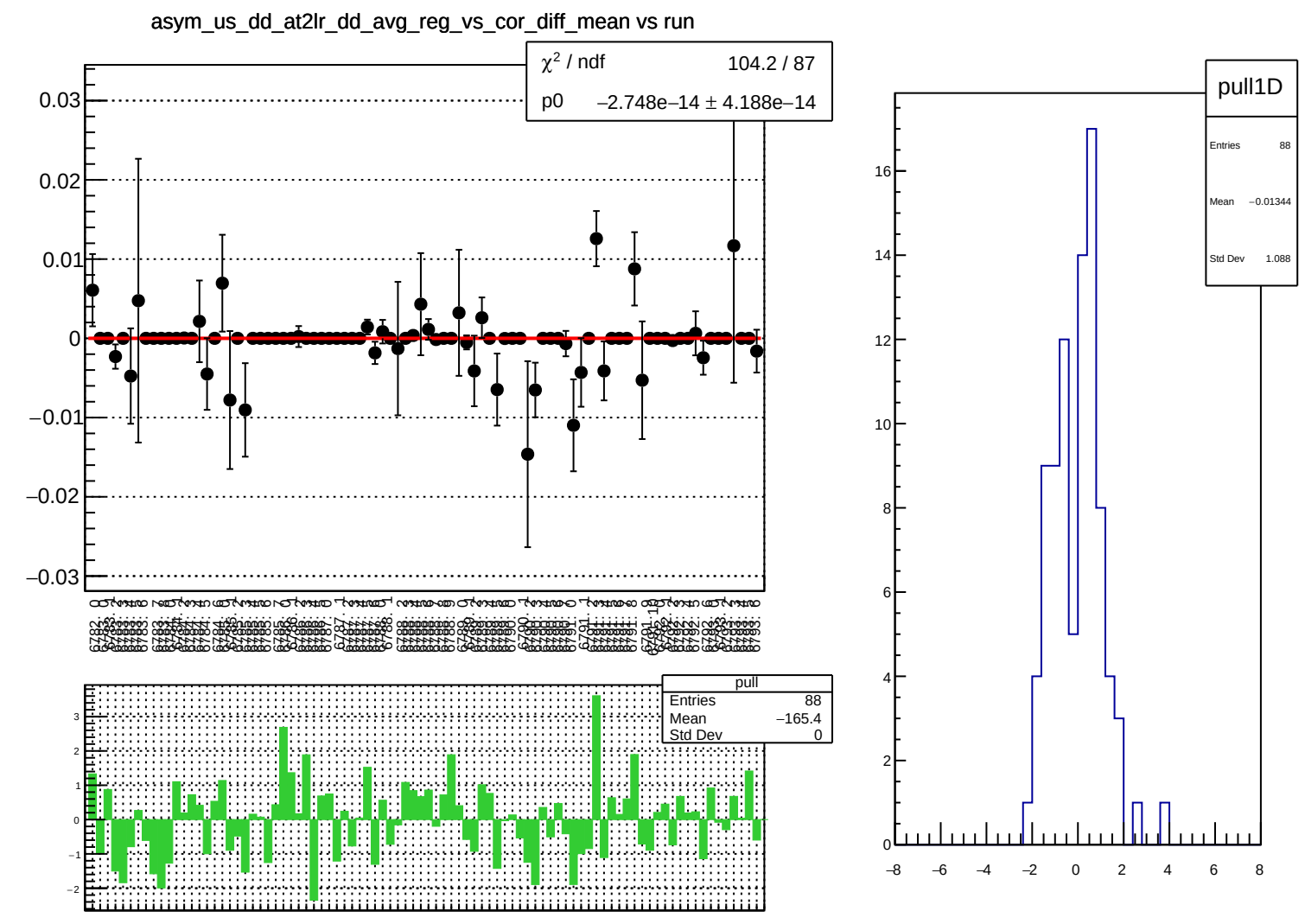

pull1D
Entries 88
Mean −0.01306
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

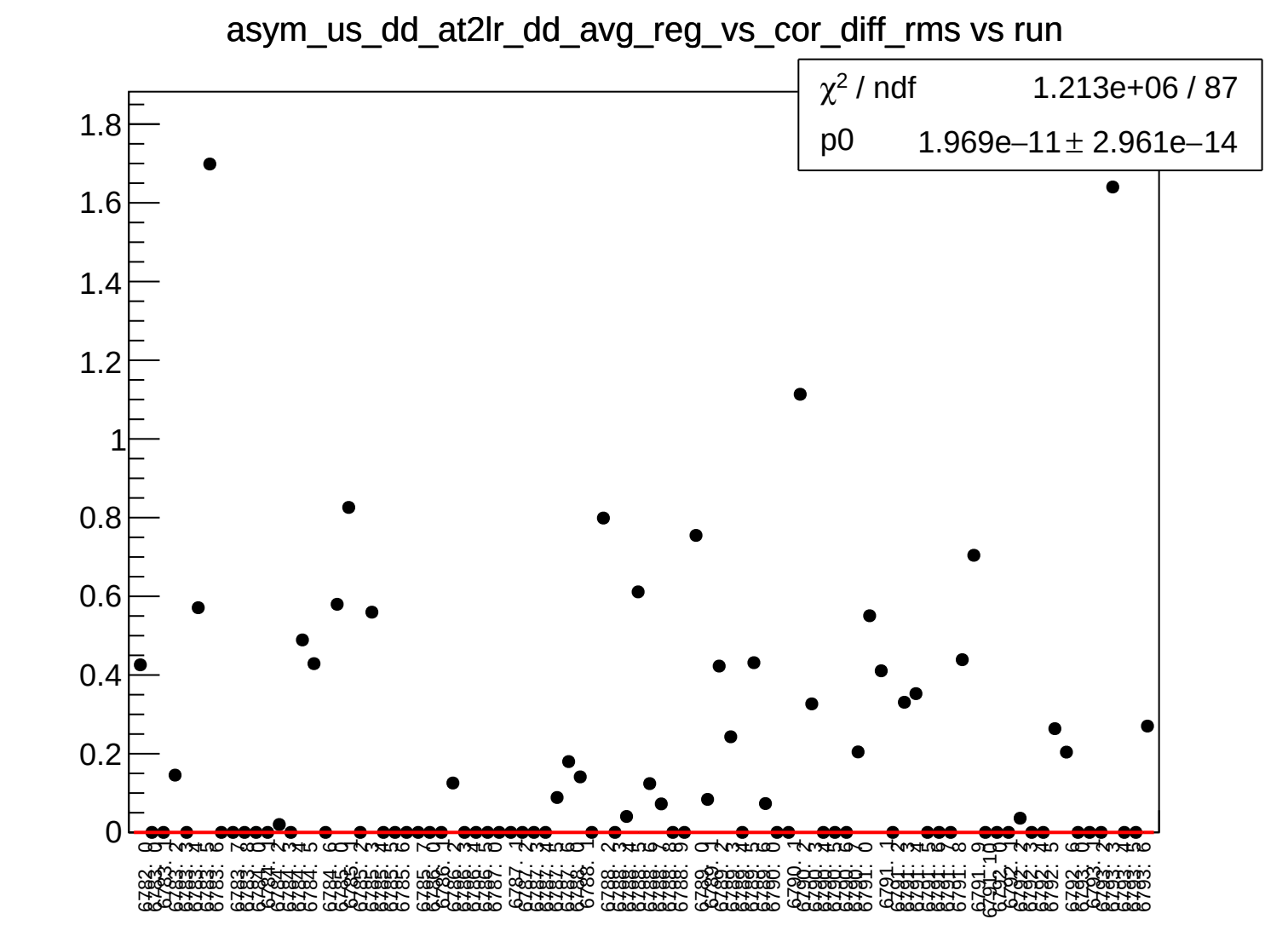

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2094 / 87
p0 1434 ± 1.115
1550
1500
1450
1400
1350

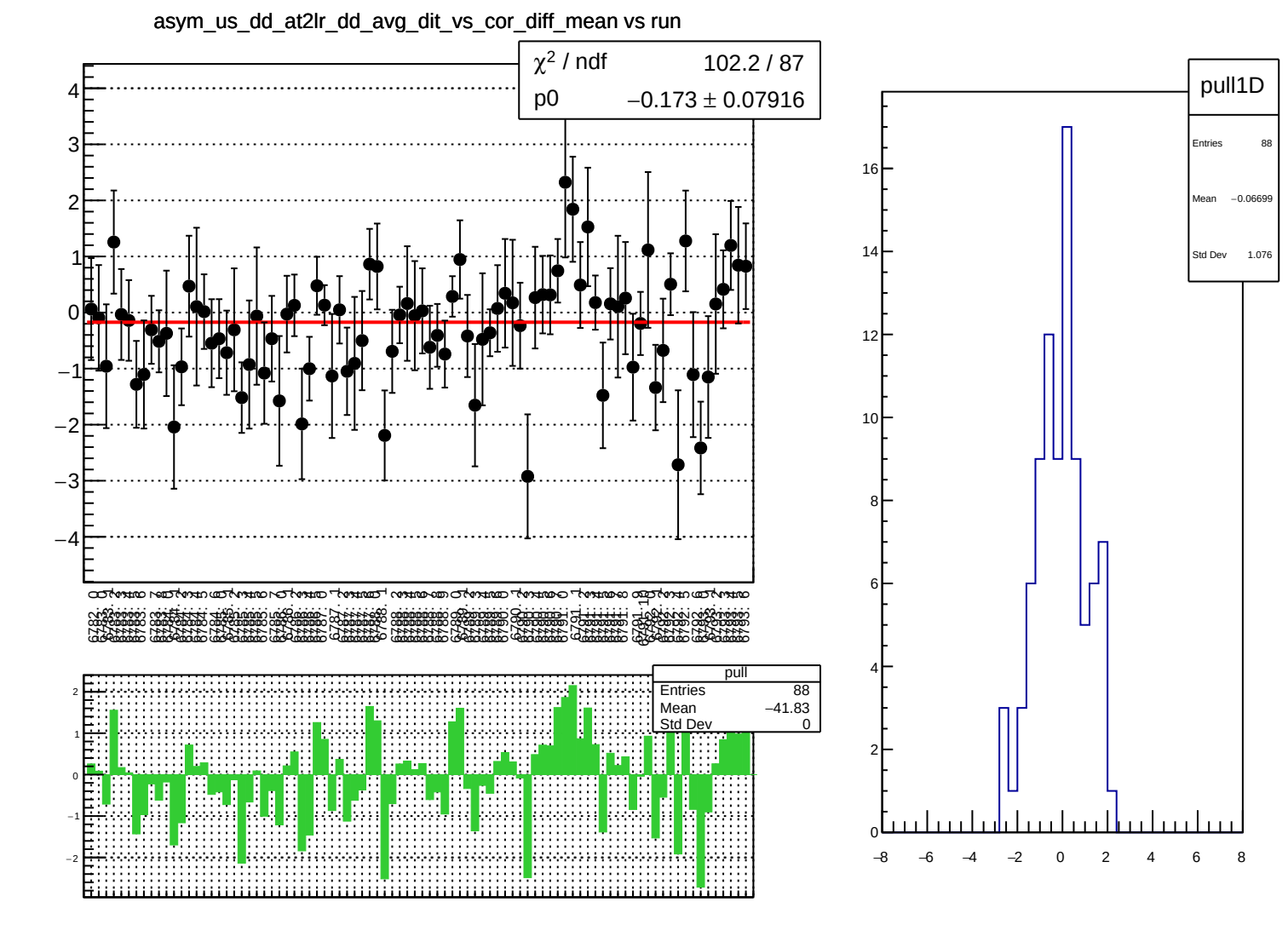

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 90.82 / 87
p0 3544 ± 2794
pull
Entries 88
Mean 77.12
Std Dev 29.28

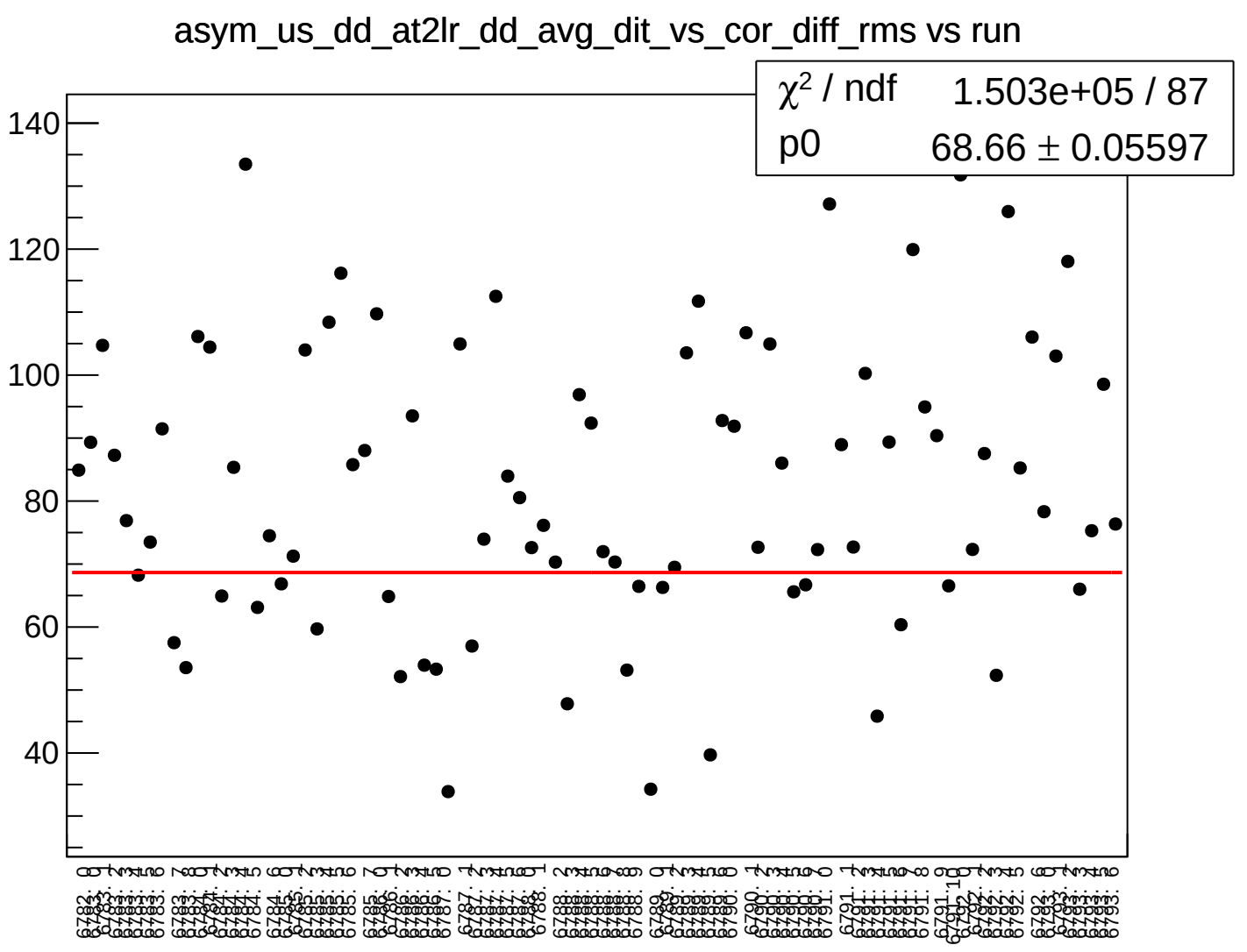

pull1D
Entries 88
Mean 0.02511
Std Dev 1.016

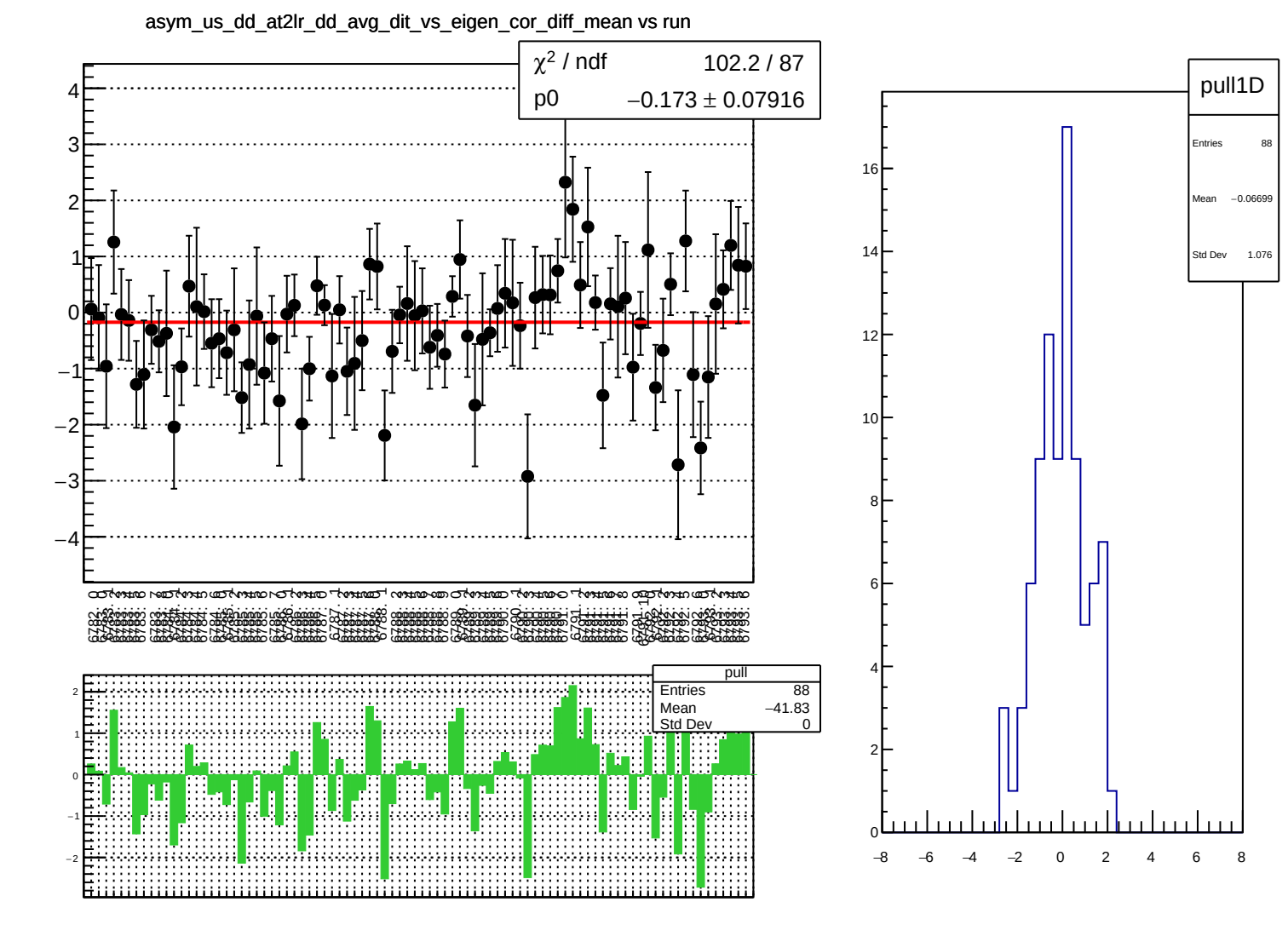

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 292.5 / 87
p0 2541 ± 1.976
2650
2600
2550
2500
2450

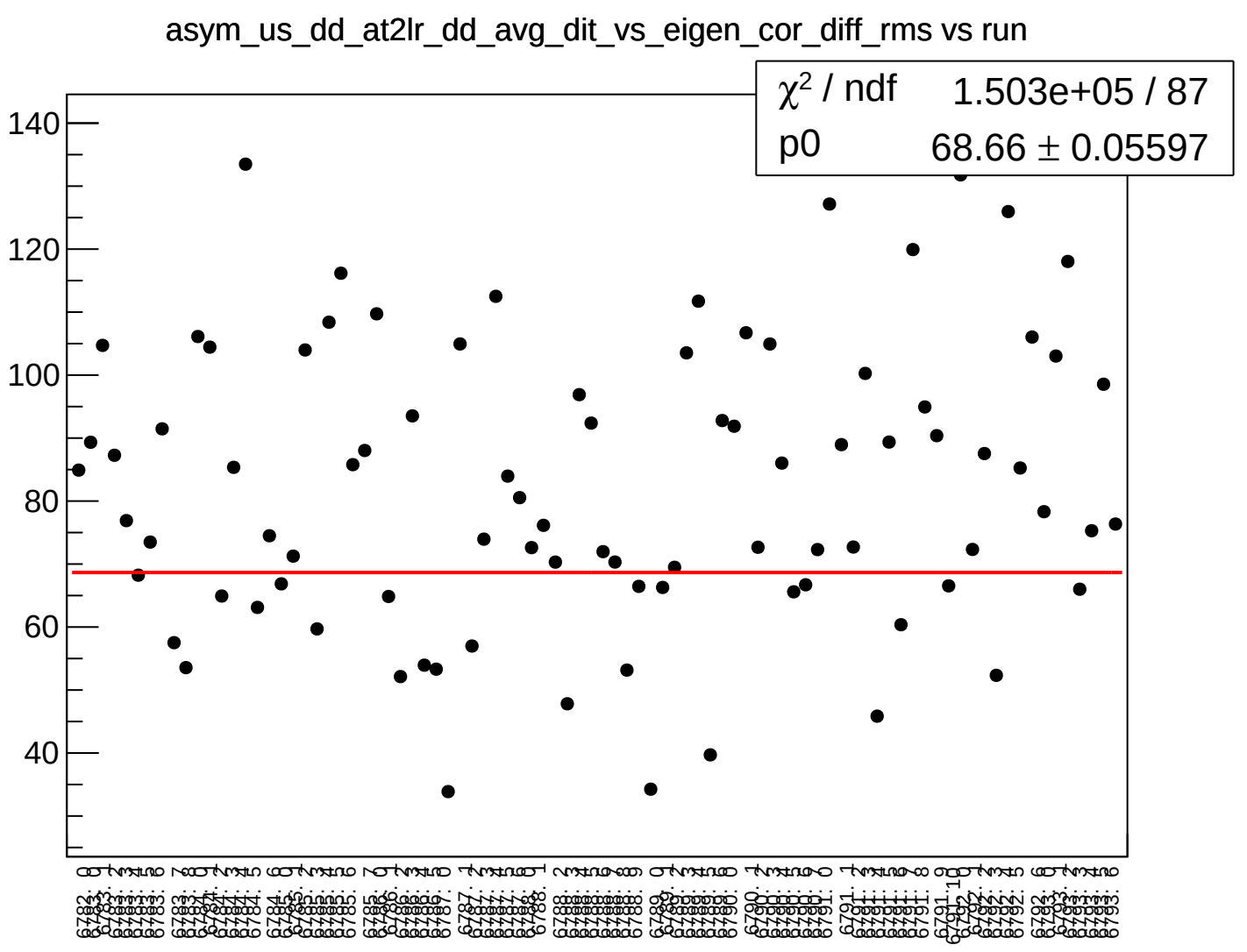

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 87
p0 −2.748e−14 ± 4.188e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −165.4
Std Dev 0
pull1D
Entries 88
Mean −0.01344
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

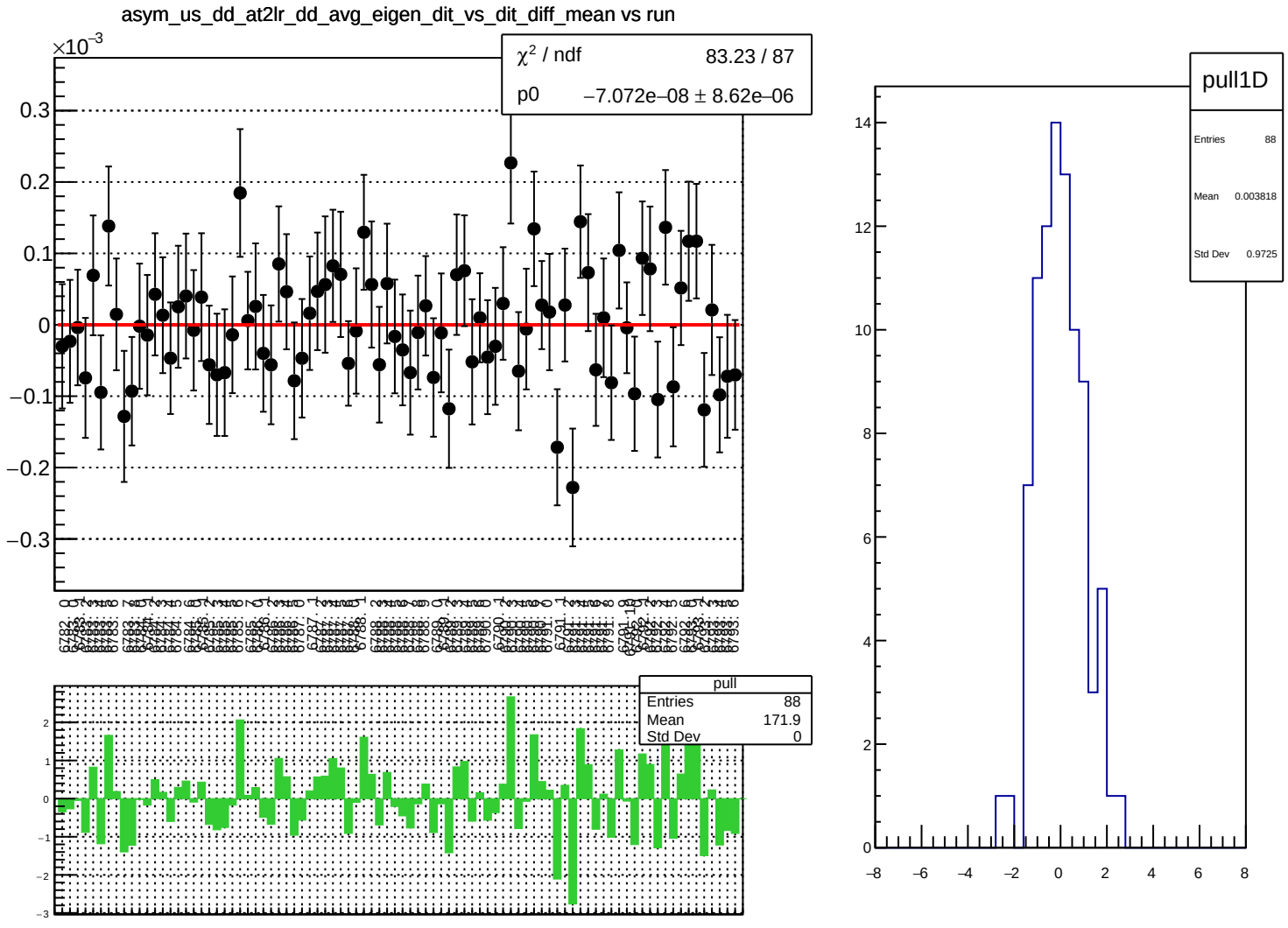

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.213e+06 / 87
p0 1.969e−11 ± 2.961e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

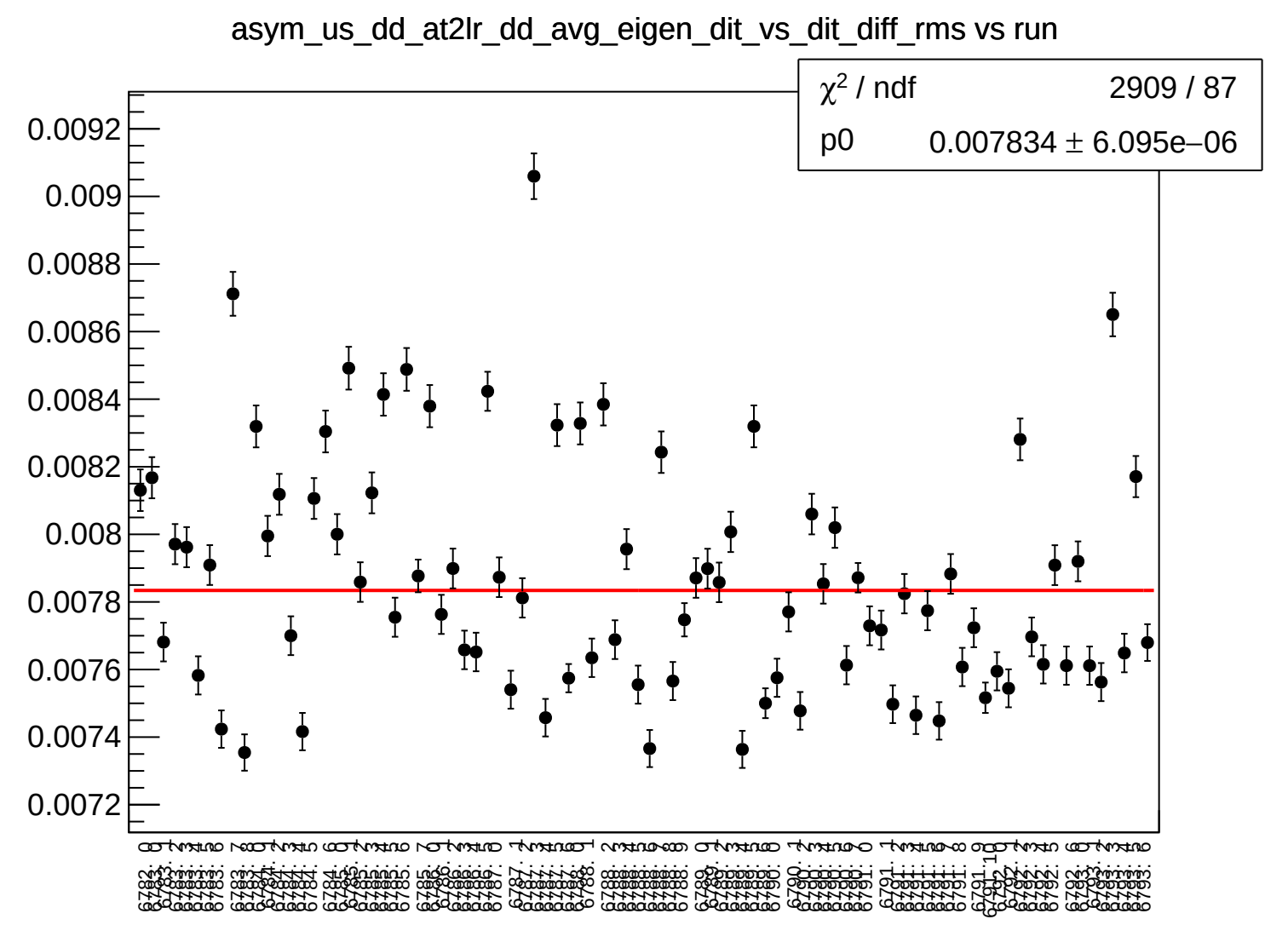

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 87
p0 −0.173 ± 0.07916
pull
Entries 88
Mean −41.83
Std Dev 0
pull1D
Entries 88
Mean −0.06699
Std Dev 1.076

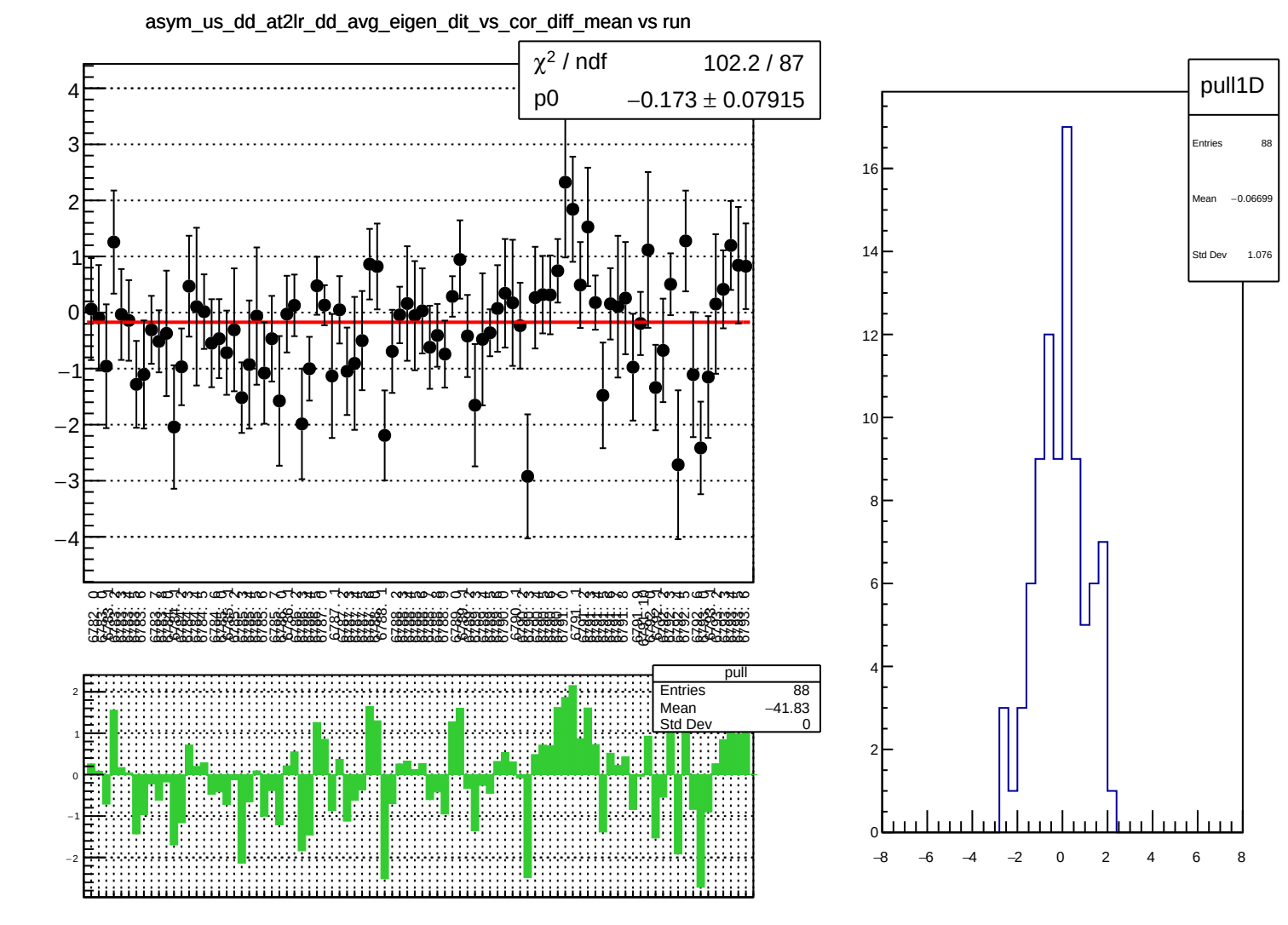

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+05 / 87
p0 68.66 ± 0.05597
140
120
100
80
60
40

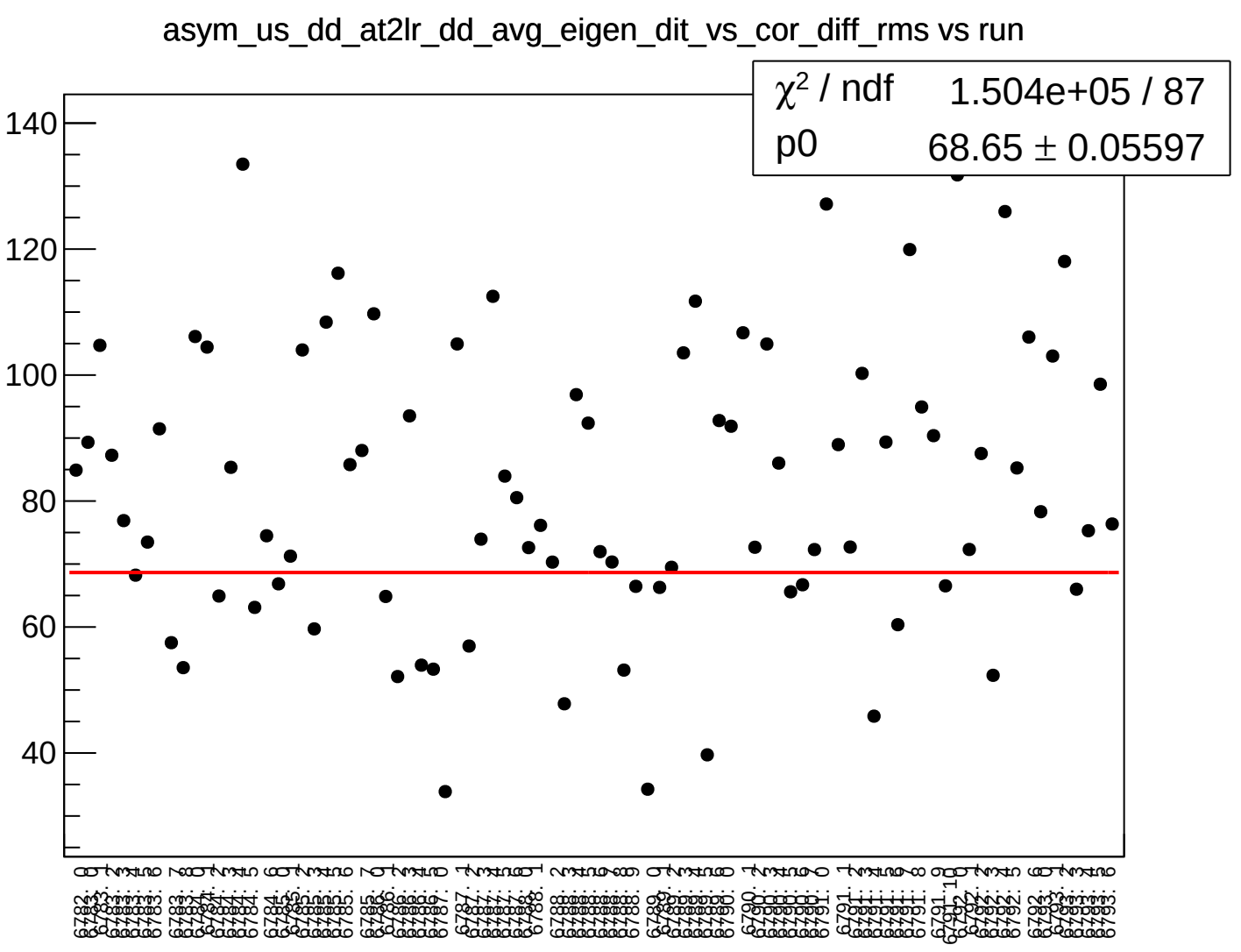

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 87
p0 −0.173 ± 0.07916
pull
Entries 88
Mean −41.83
Std Dev 0
pull1D
Entries 88
Mean −0.06699
Std Dev 1.076

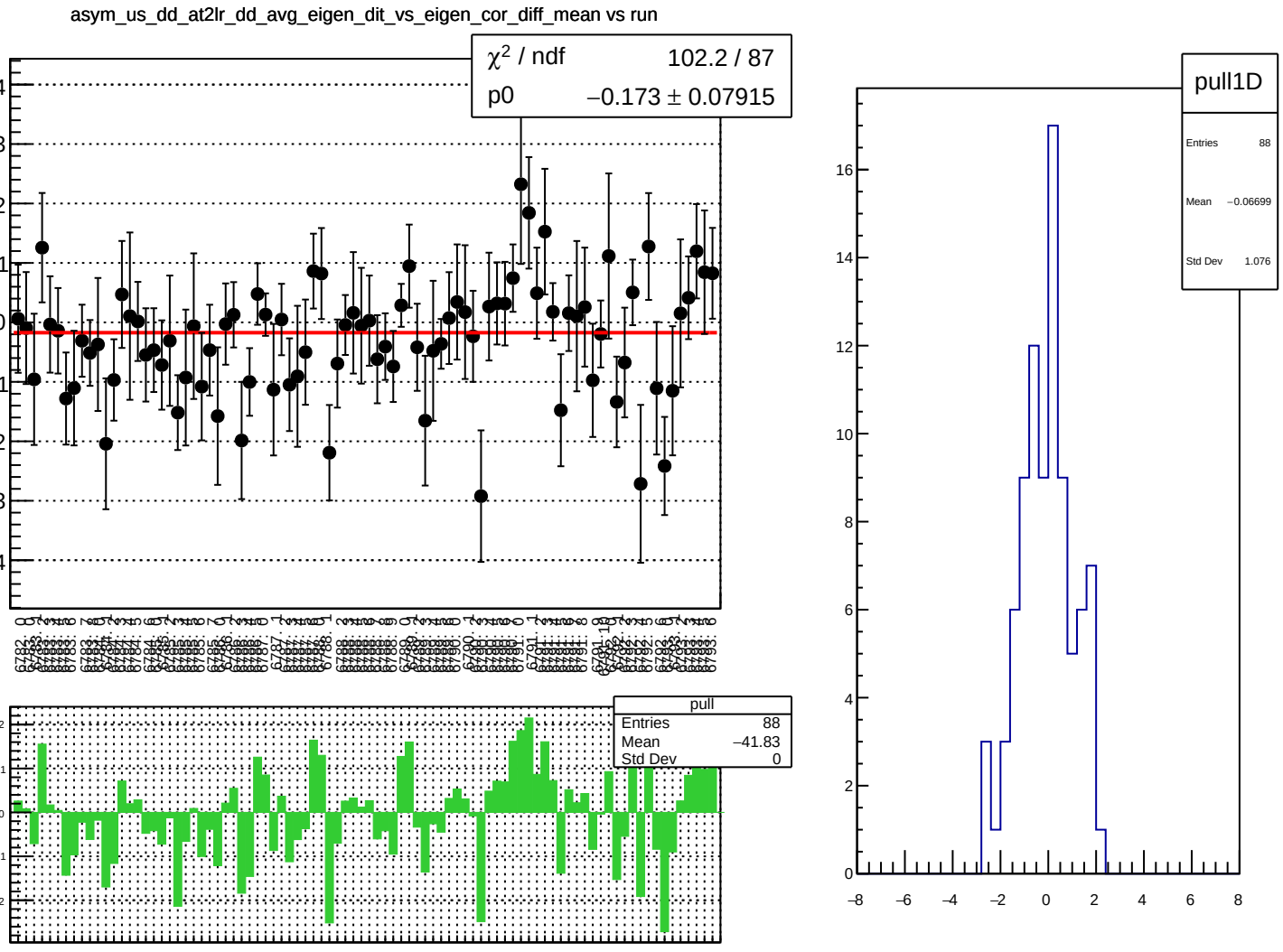

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+05 / 87
p0 68.66 ± 0.05597
140
120
100
80
60
40

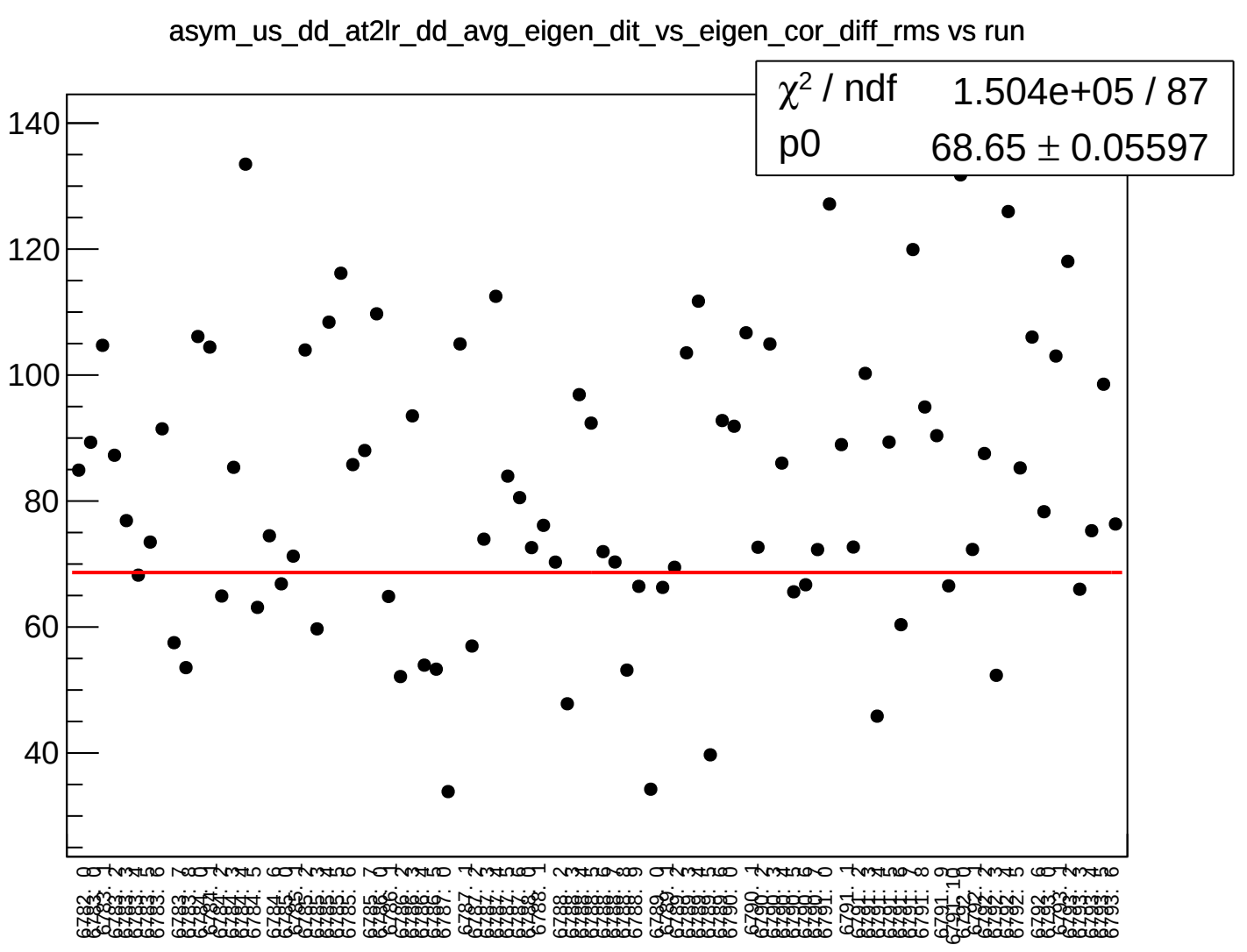

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.23 / 87
p0 −7.072e−08 ± 8.62e−06
pull
Entries 88
Mean 171.9
Std Dev 0
pull1D
Entries 88
Mean 0.003818
Std Dev 0.9725

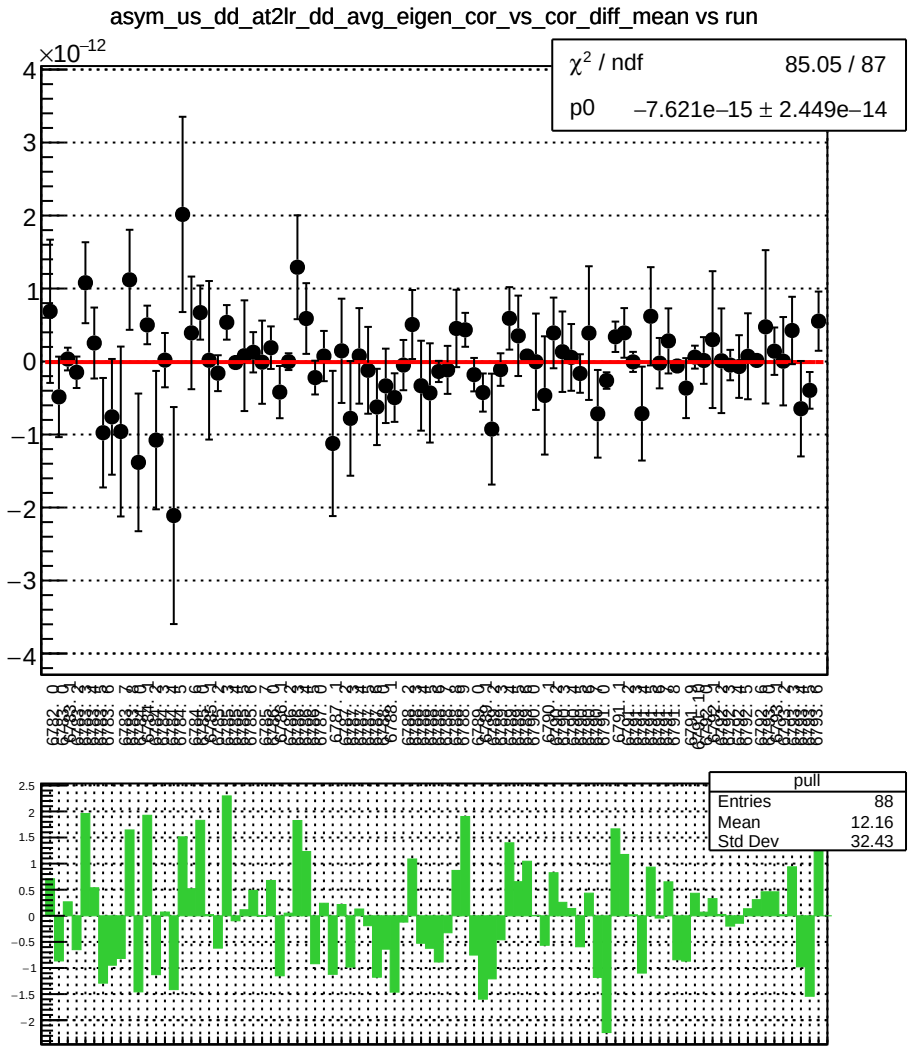

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2909 / 87
p0 0.007834 ± 6.095e−06
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072

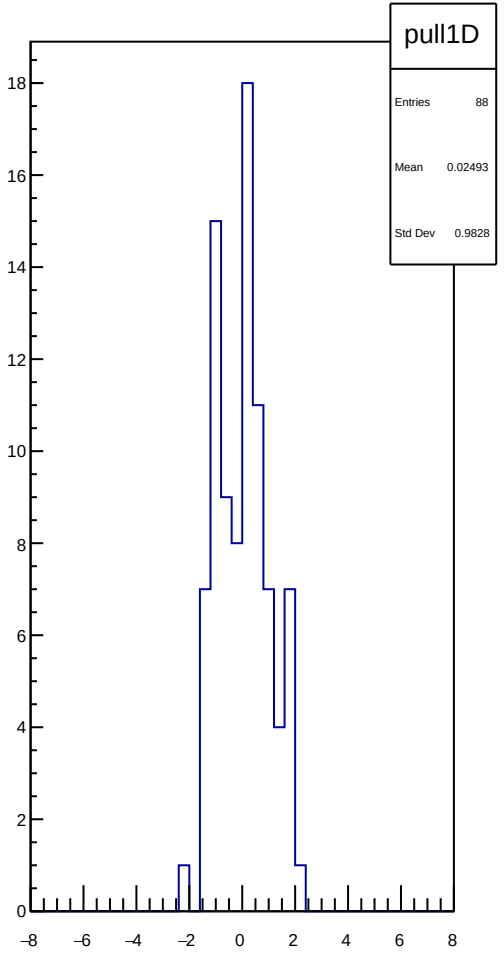

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 87
p0 −0.173 ± 0.07915
pull
Entries 88
Mean −41.83
Std Dev 0
pull1D
Entries 88
Mean −0.06699
Std Dev 1.076

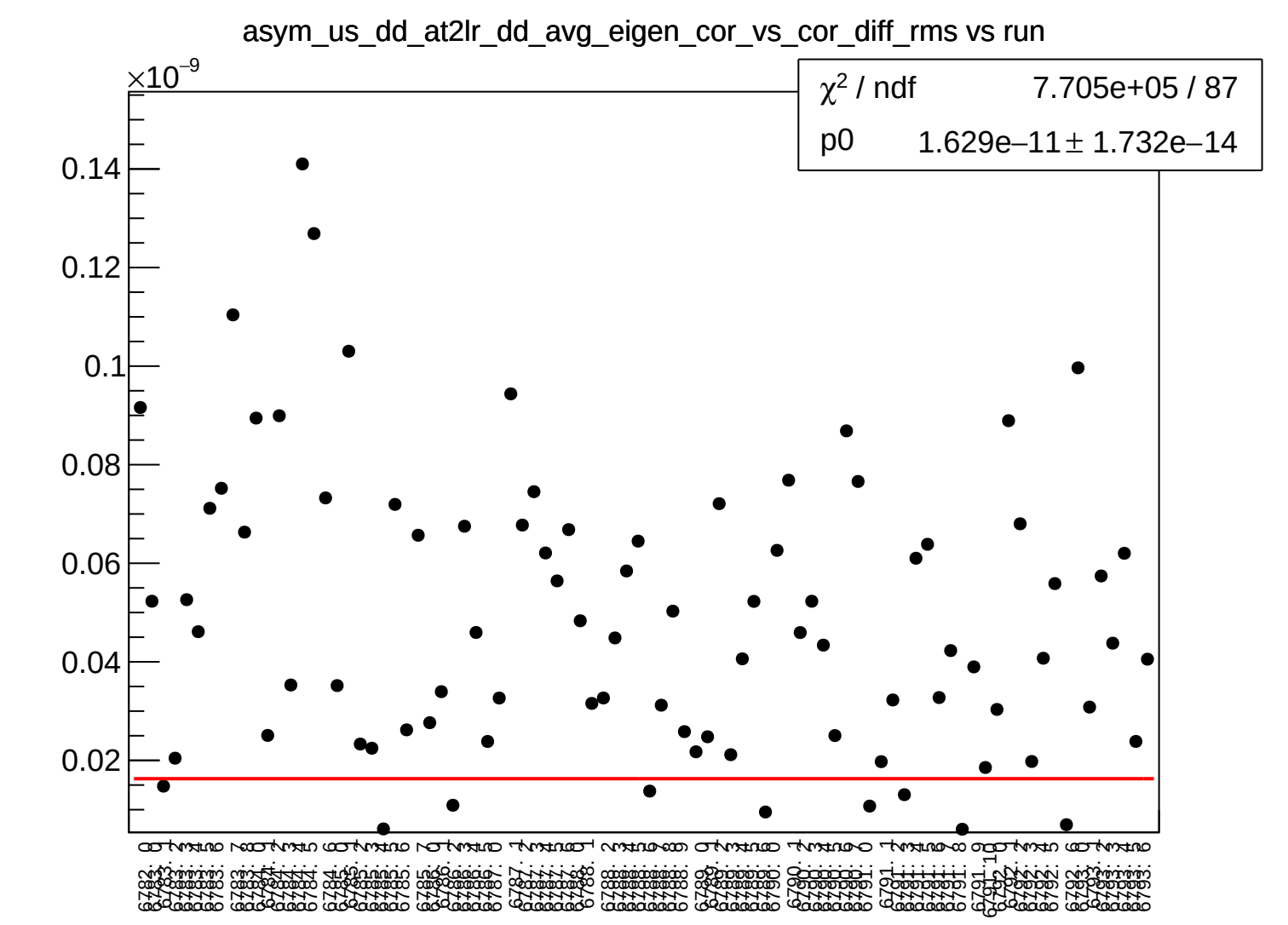

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.504e+05 / 87
p0 68.65 ± 0.05597
140
120
100
80
60
40

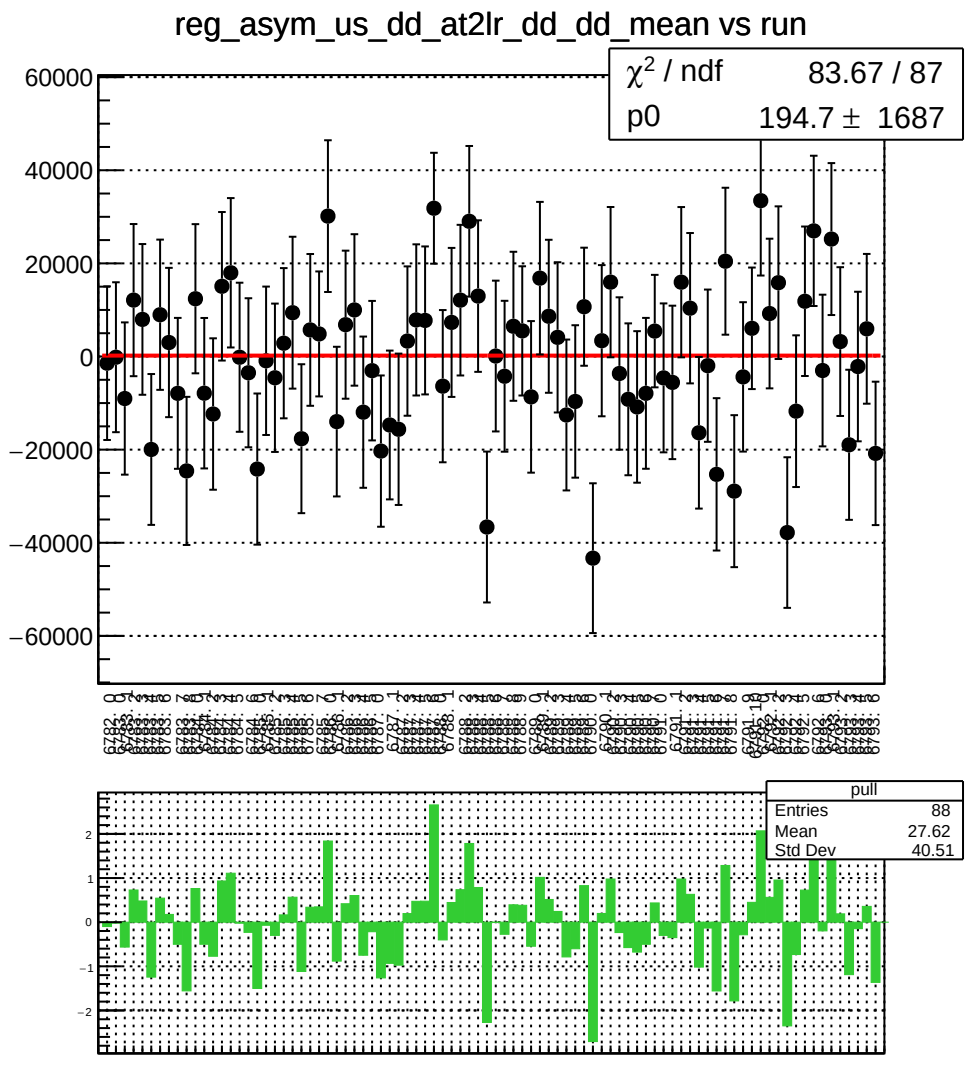

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 87
p0 −0.173 ± 0.07915
pull
Entries 88
Mean −41.83
Std Dev 0
pull1D
Entries 88
Mean −0.06699
Std Dev 1.076

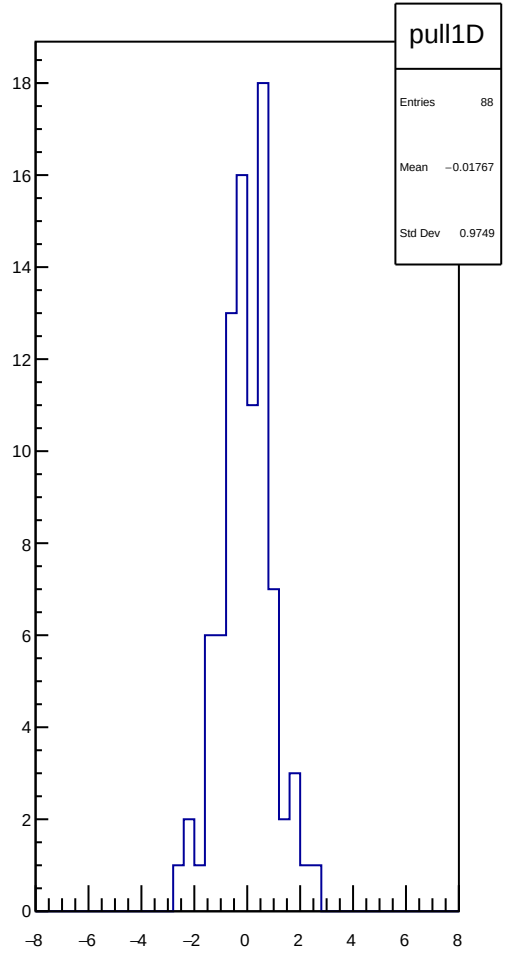

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.504e+05 / 87
p0 68.65 ± 0.05597
140
120
100
80
60
40

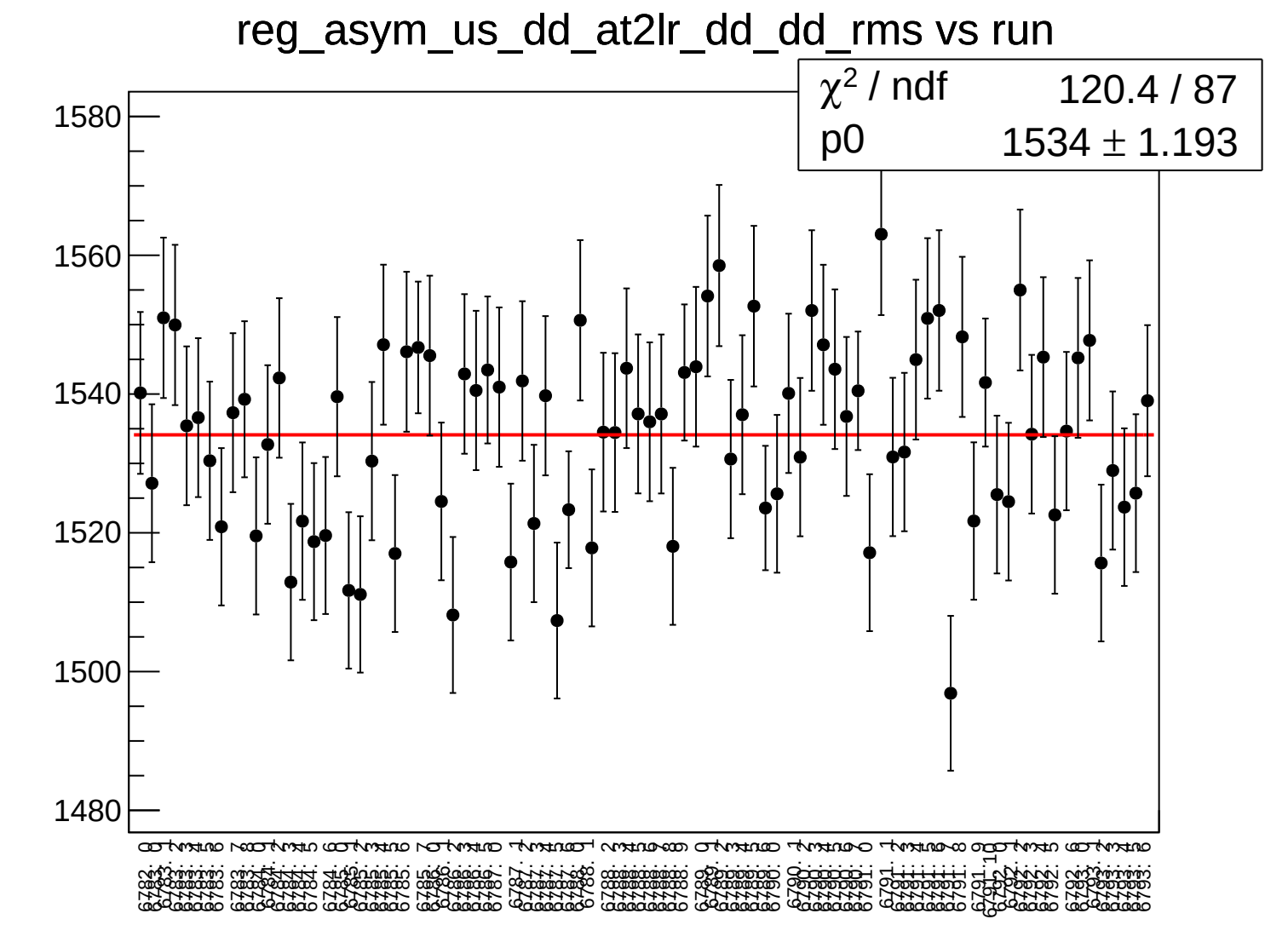

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.05 / 87
p0 −7.621e−15 ± 2.449e−14
pull
Entries 88
Mean 12.16
Std Dev 32.43

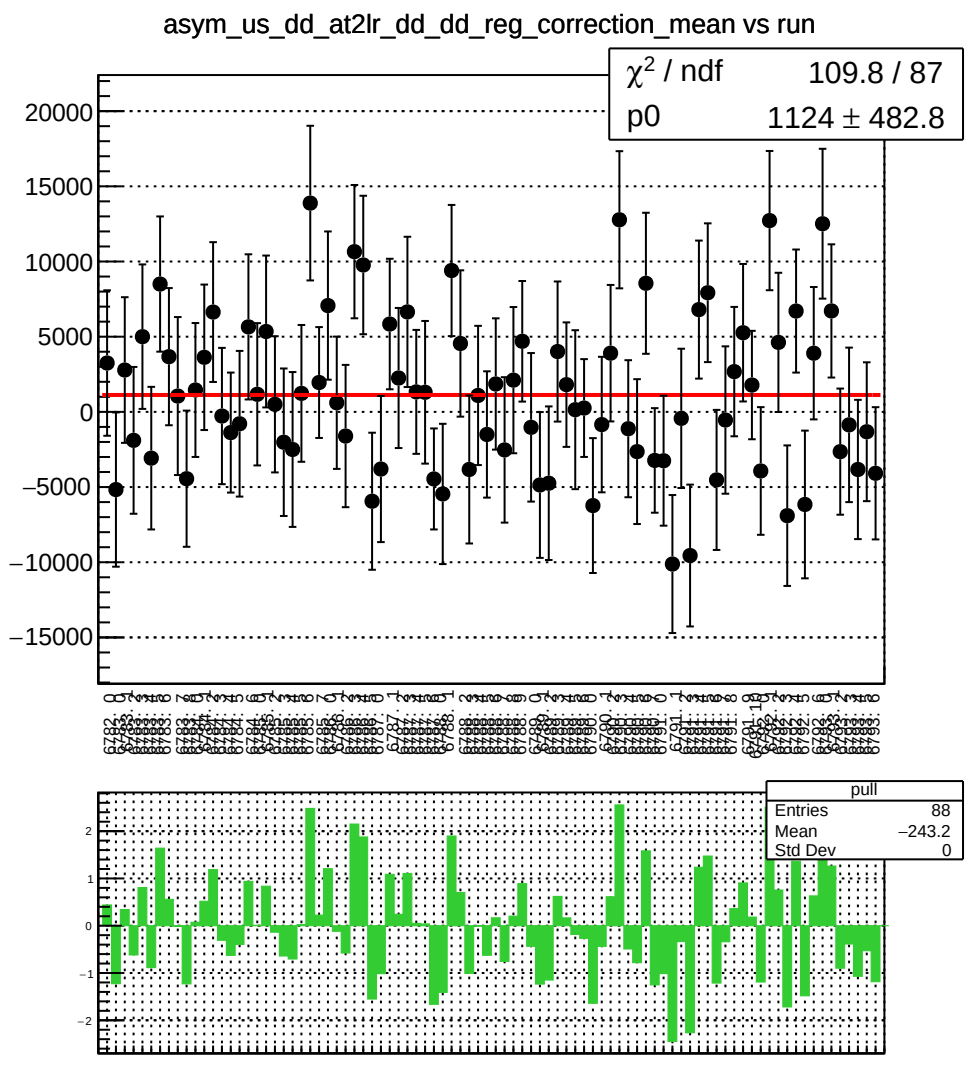

pull1D
Entries 88
Mean 0.02493
Std Dev 0.9828

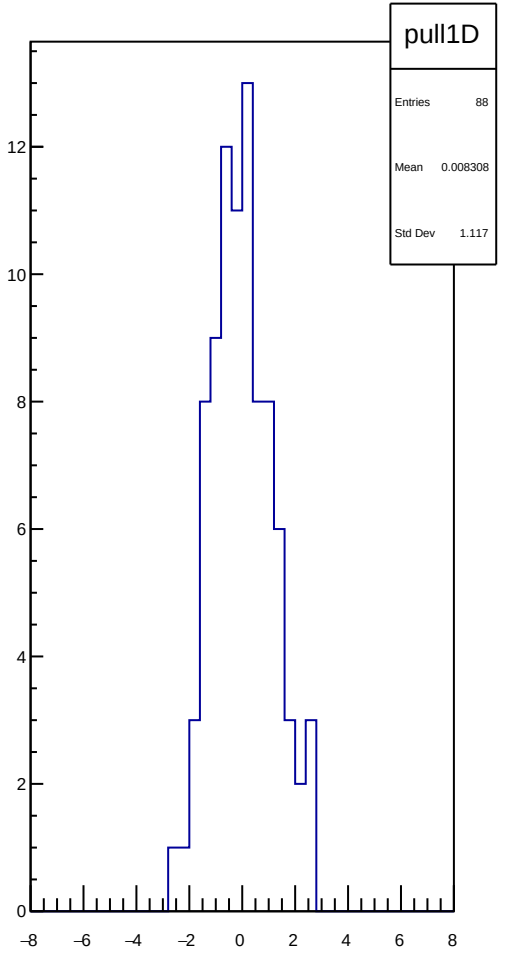

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.705e+05 / 87
p0 1.629e−11 ± 1.732e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

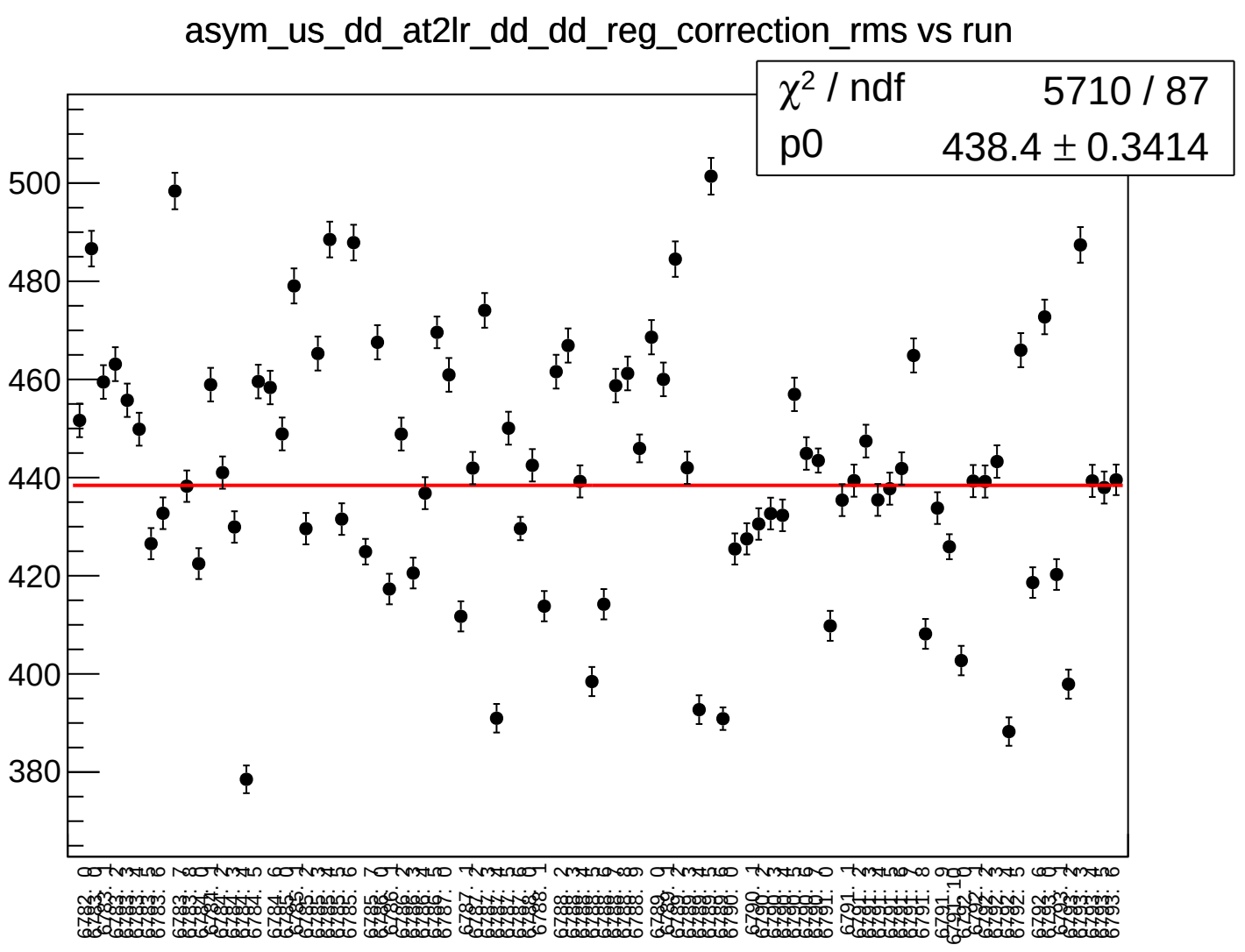

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ^2 / ndf 83.67 / 87
p0 194.7 ± 1687
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 27.62
Std Dev 40.51
2
1
0
−1
−2

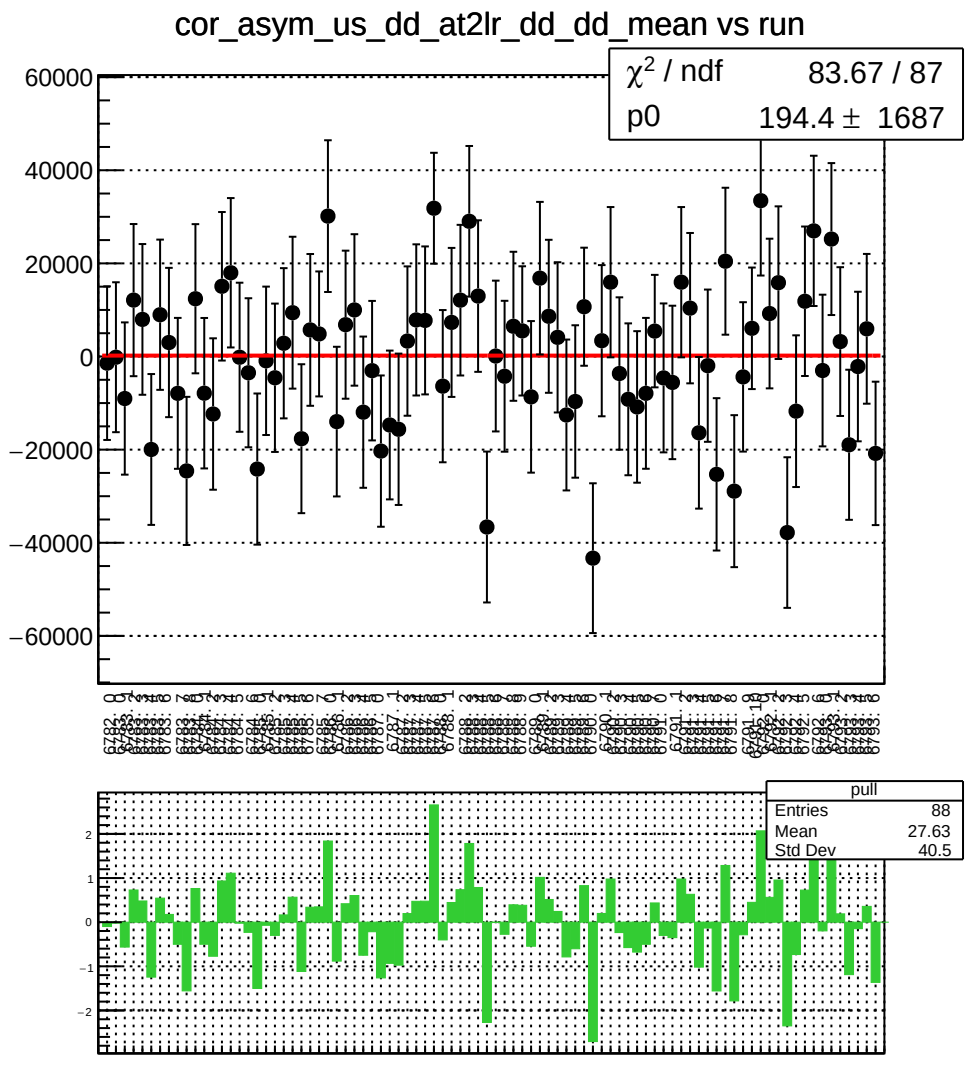

pull1D
Entries 88
Mean −0.01767
Std Dev 0.9749
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

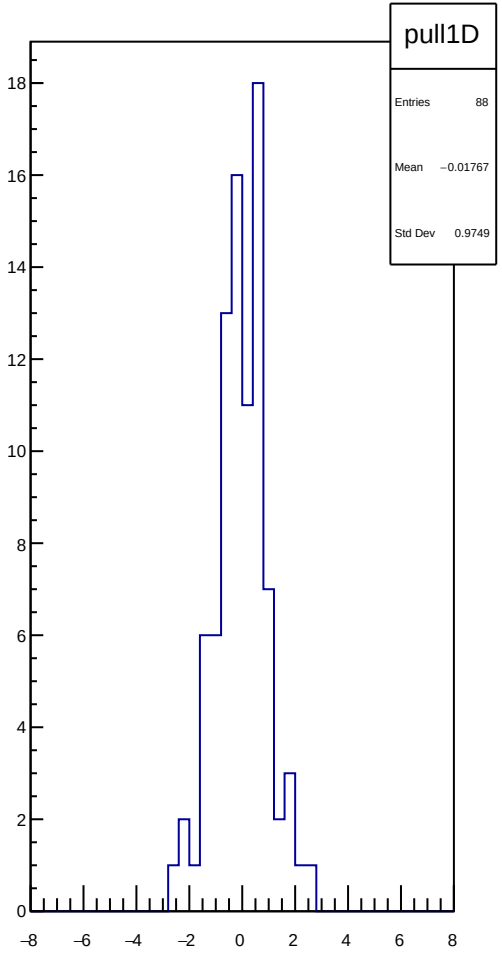

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 120.4 / 87
p0 1534 ± 1.193
1580
1560
1540
1520
1500
1480

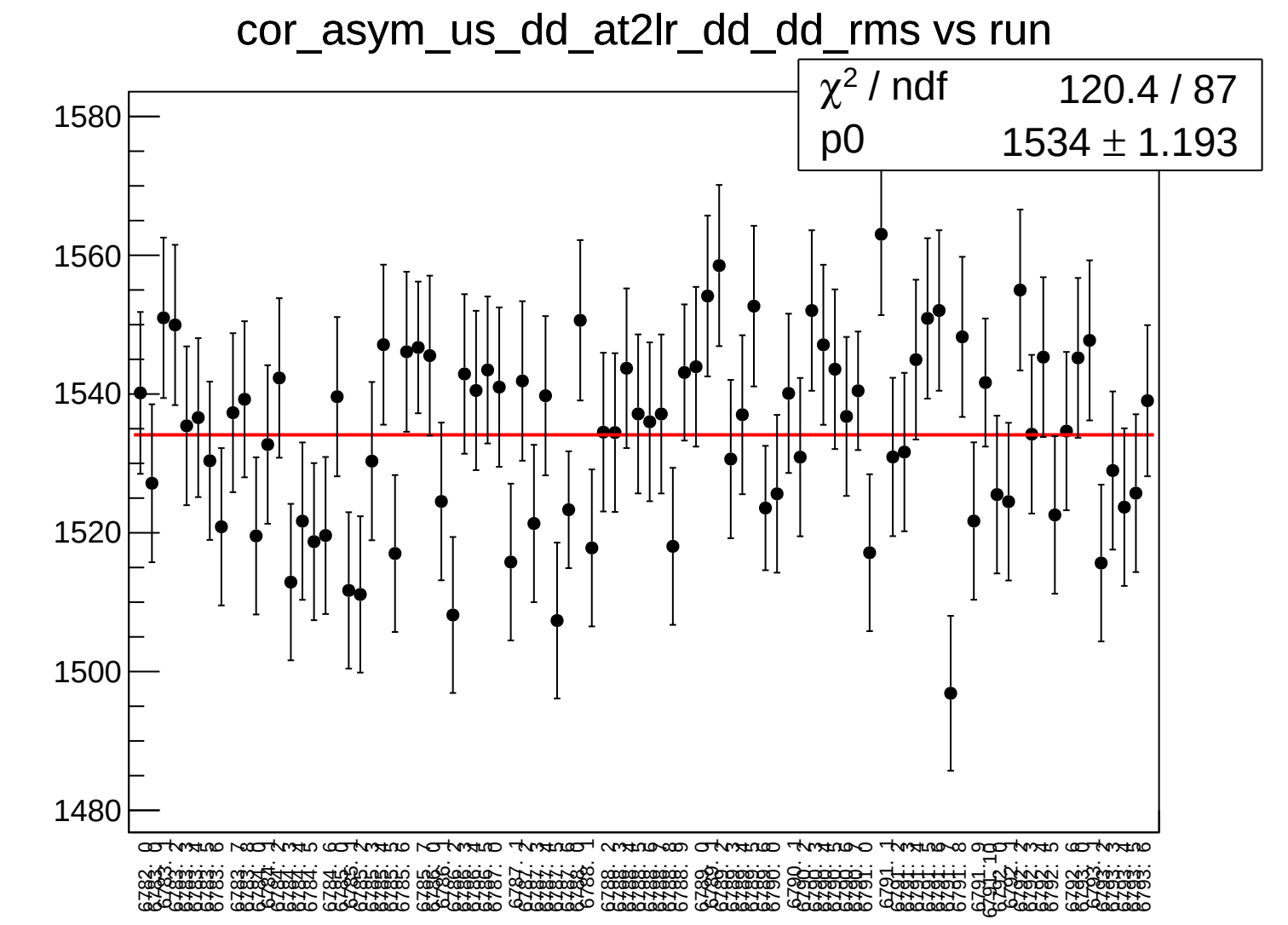

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 109.8 / 87
p0 1124 ± 482.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −243.2
Std Dev 0
2
1
0
−1
−2

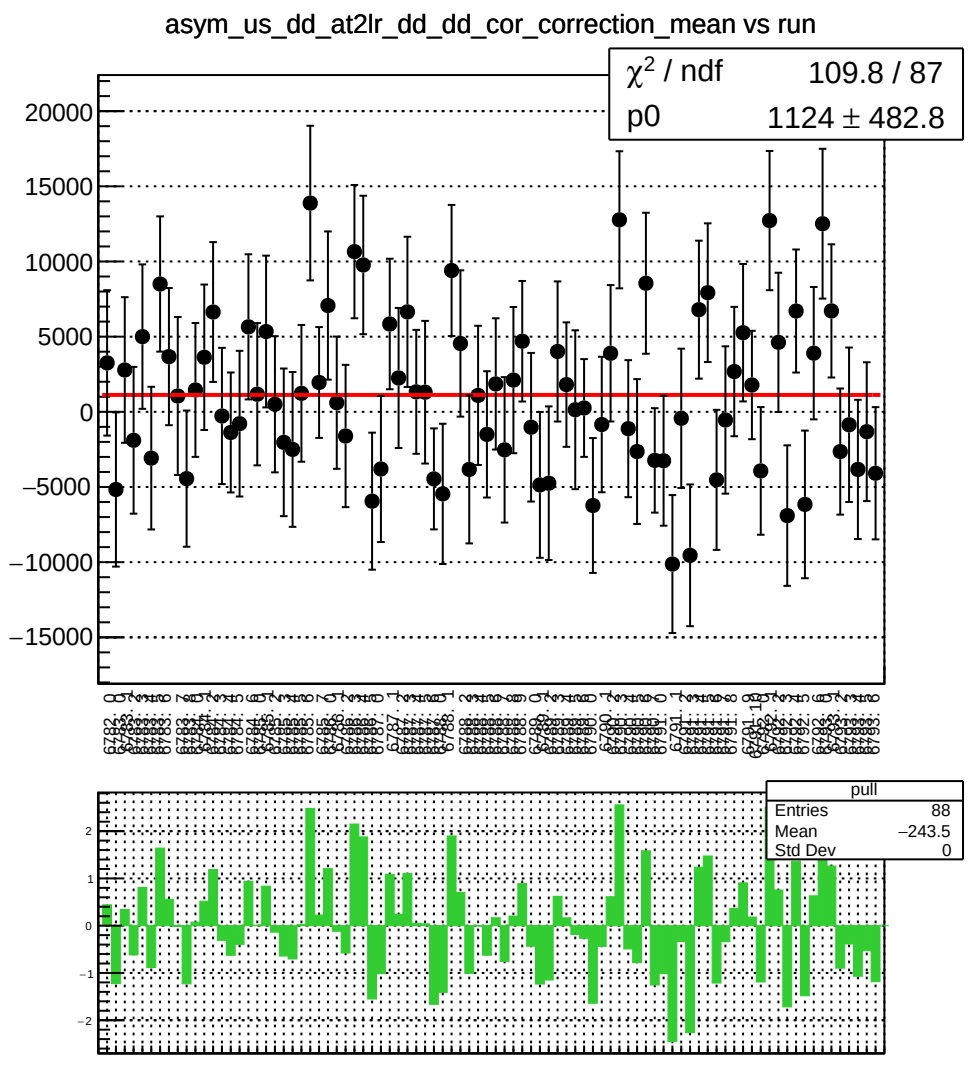

pull1D
Entries 88
Mean 0.008308
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

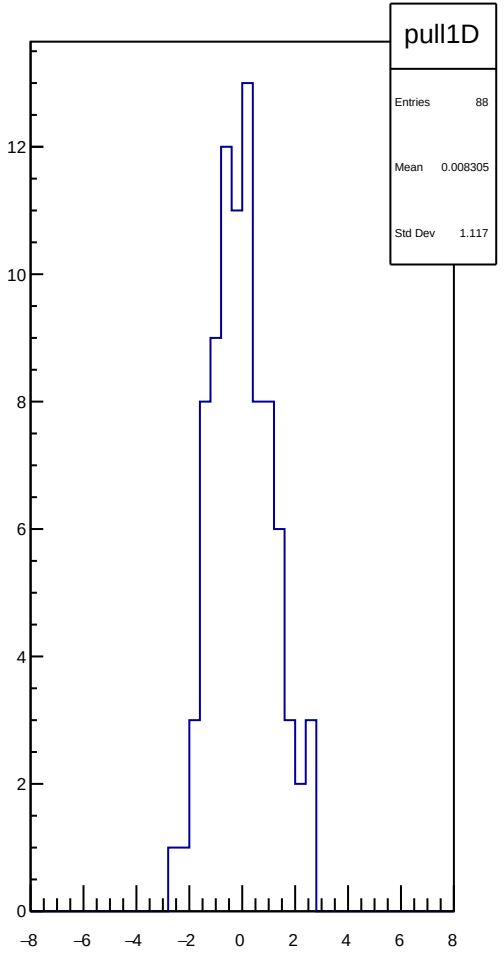

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5710 / 87
p0 438.4 ± 0.3414
500
480
460
440
420
400
380

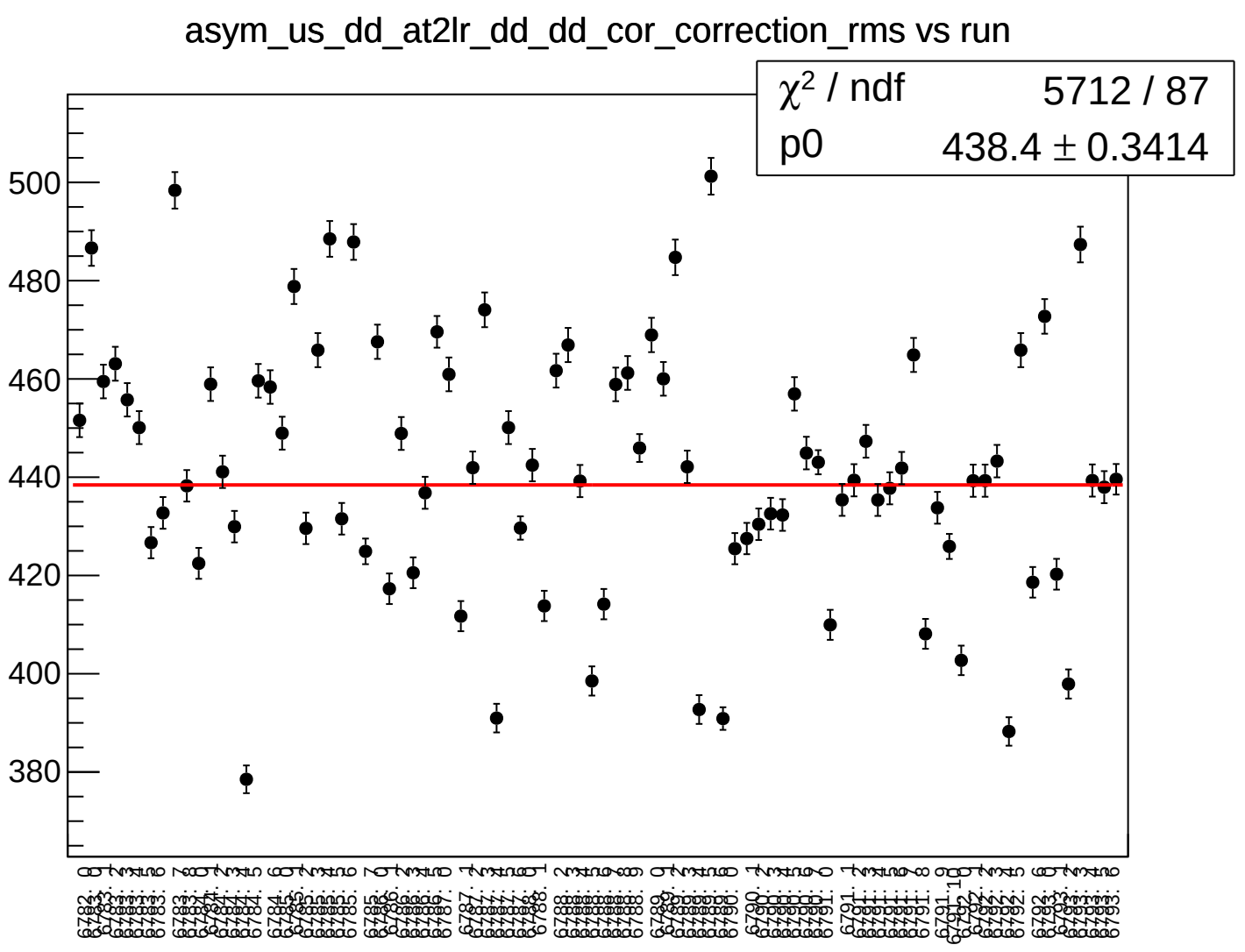

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ^2 / ndf 83.67 / 87
p0 194.4 ± 1687
pull
Entries 88
Mean 27.63
Std Dev 40.5

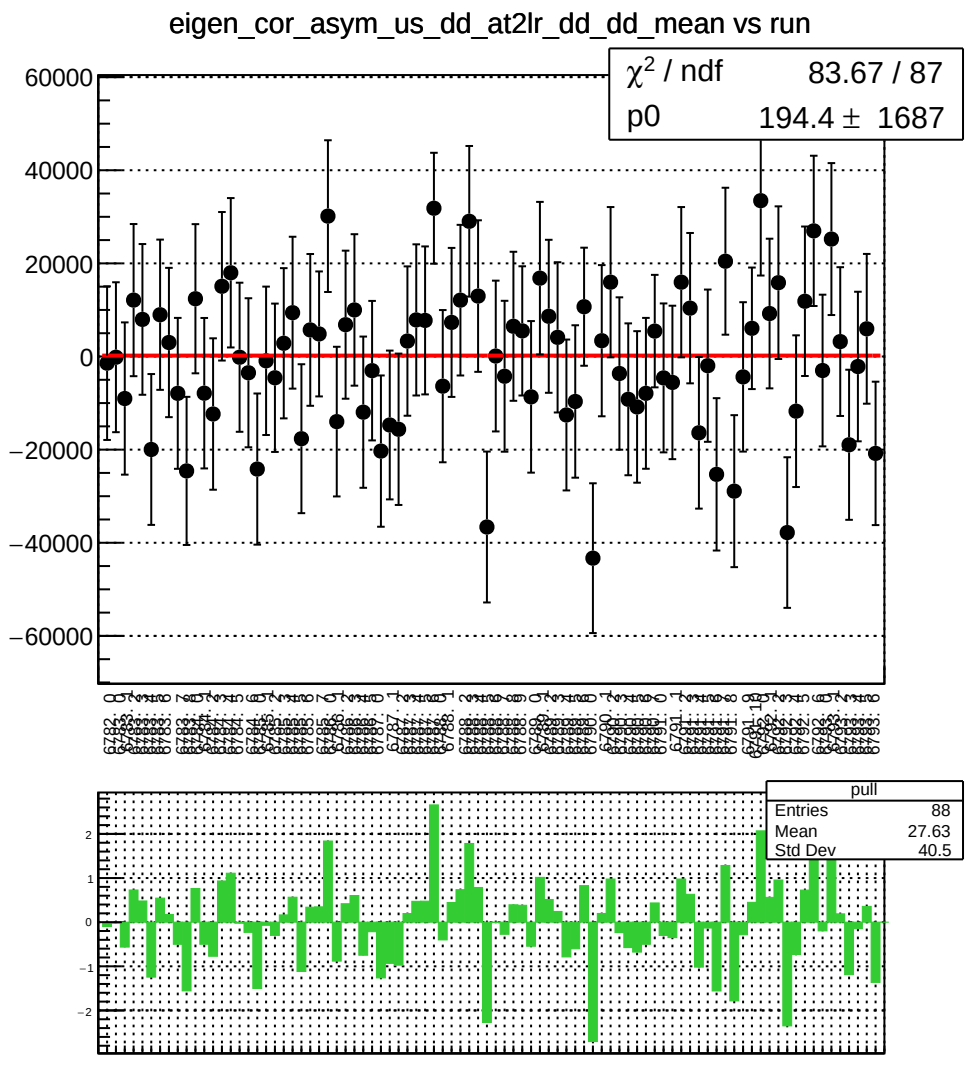

pull1D
Entries 88
Mean −0.01767
Std Dev 0.9749

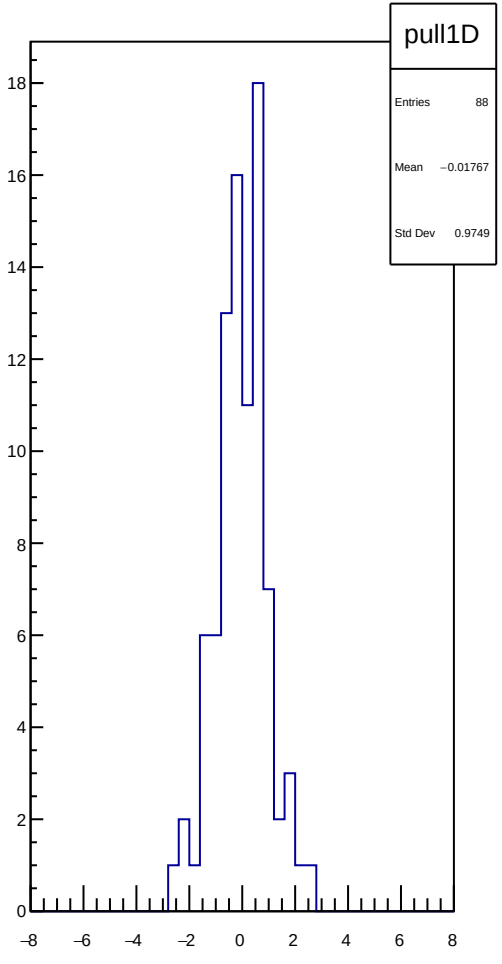

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 120.4 / 87
p0 1534 ± 1.193
1580
1560
1540
1520
1500
1480

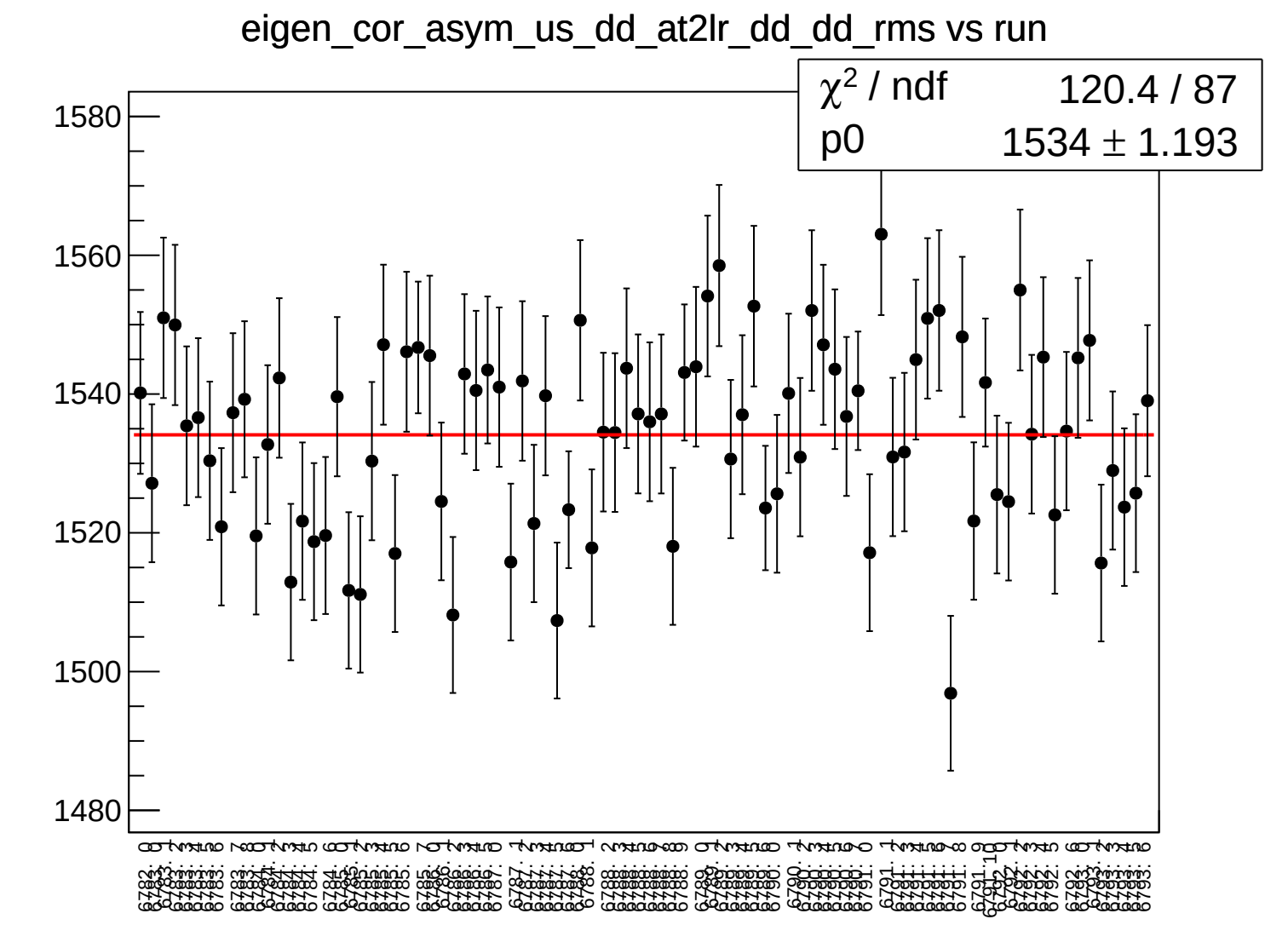

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 109.8 / 87
p0 1124 ± 482.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −243.5
Std Dev 0
2
1
0
−1
−2

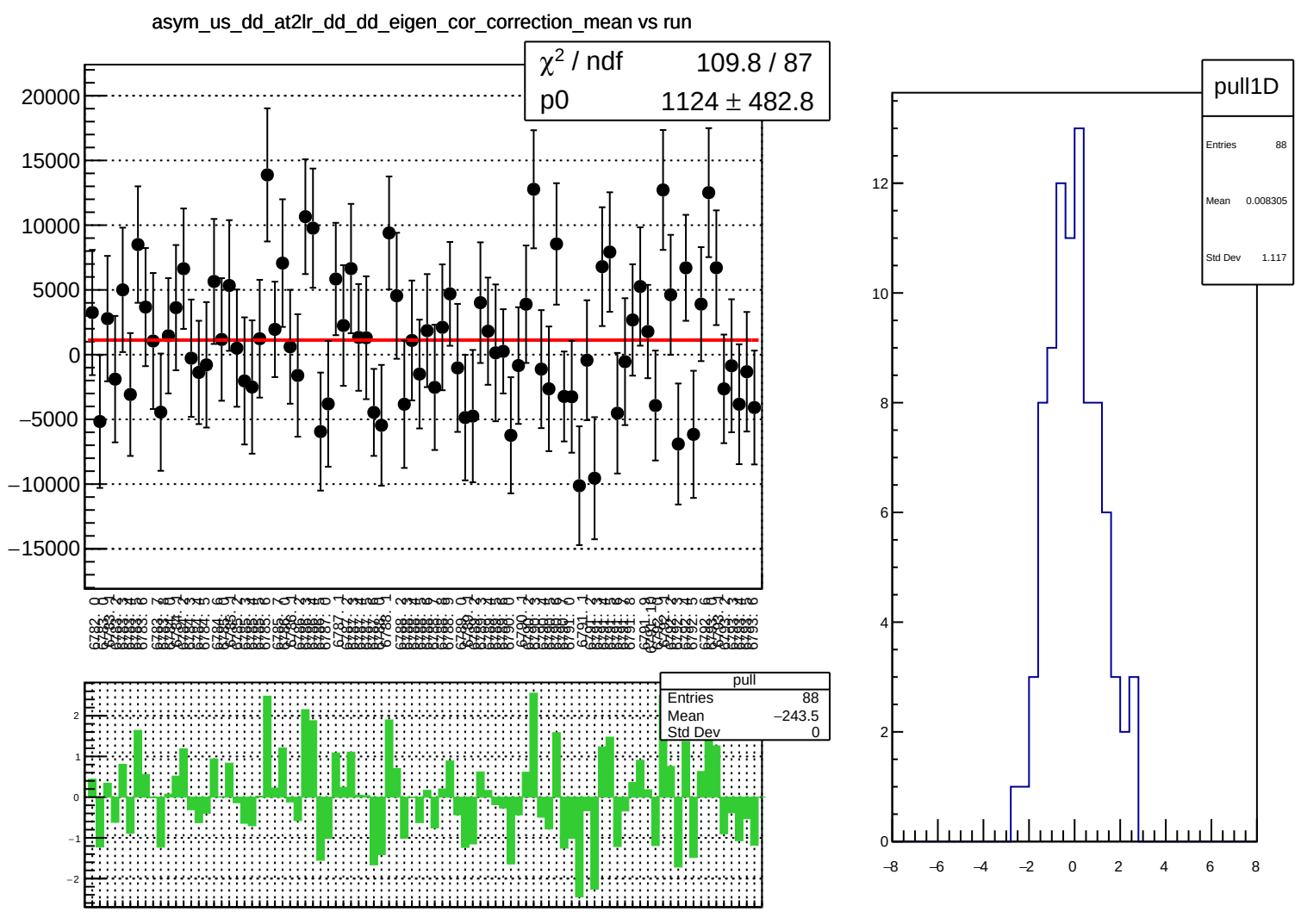

pull1D
Entries 88
Mean 0.008305
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

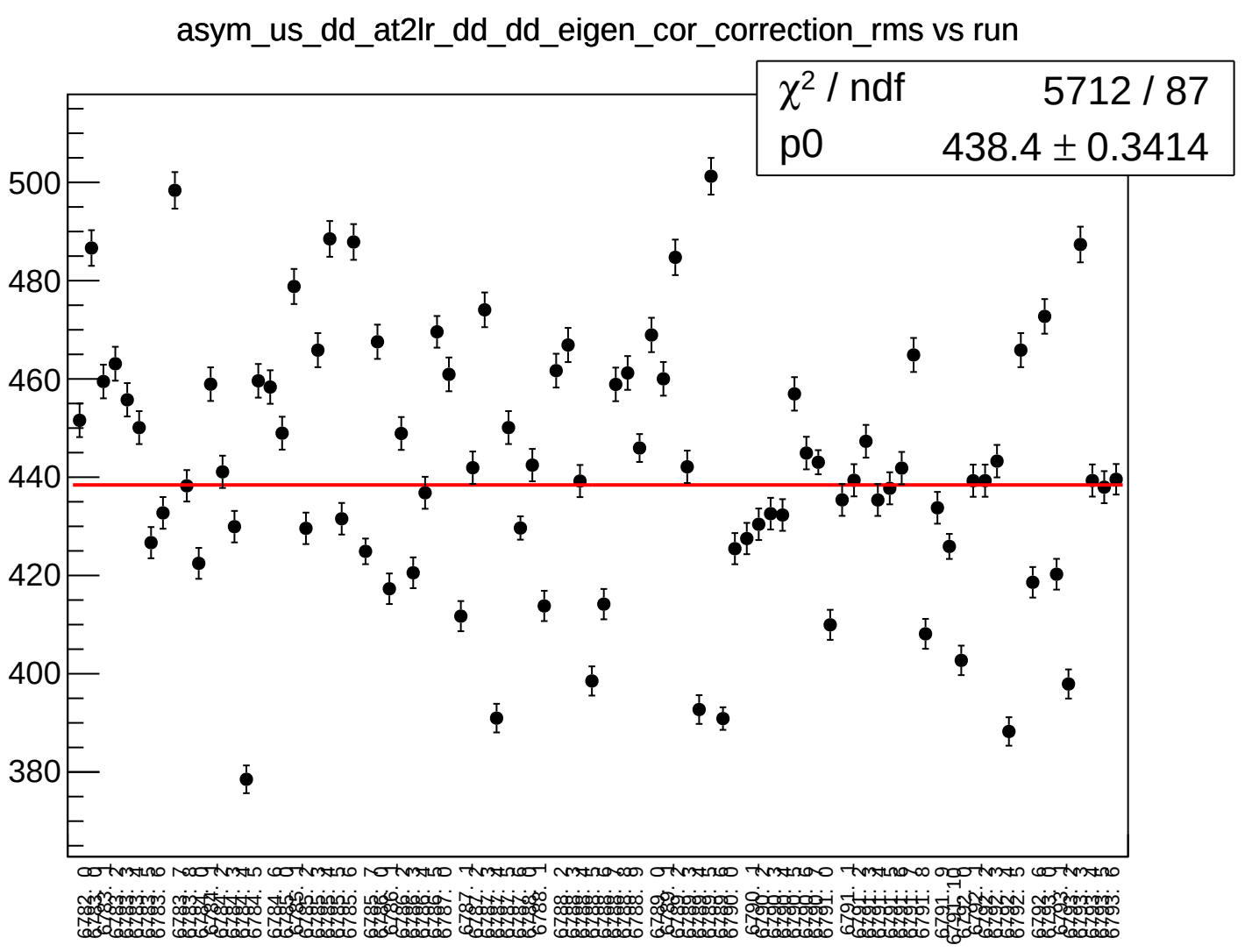

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5712 / 87
p0 438.4 ± 0.3414
500
480
460
440
420
400
380

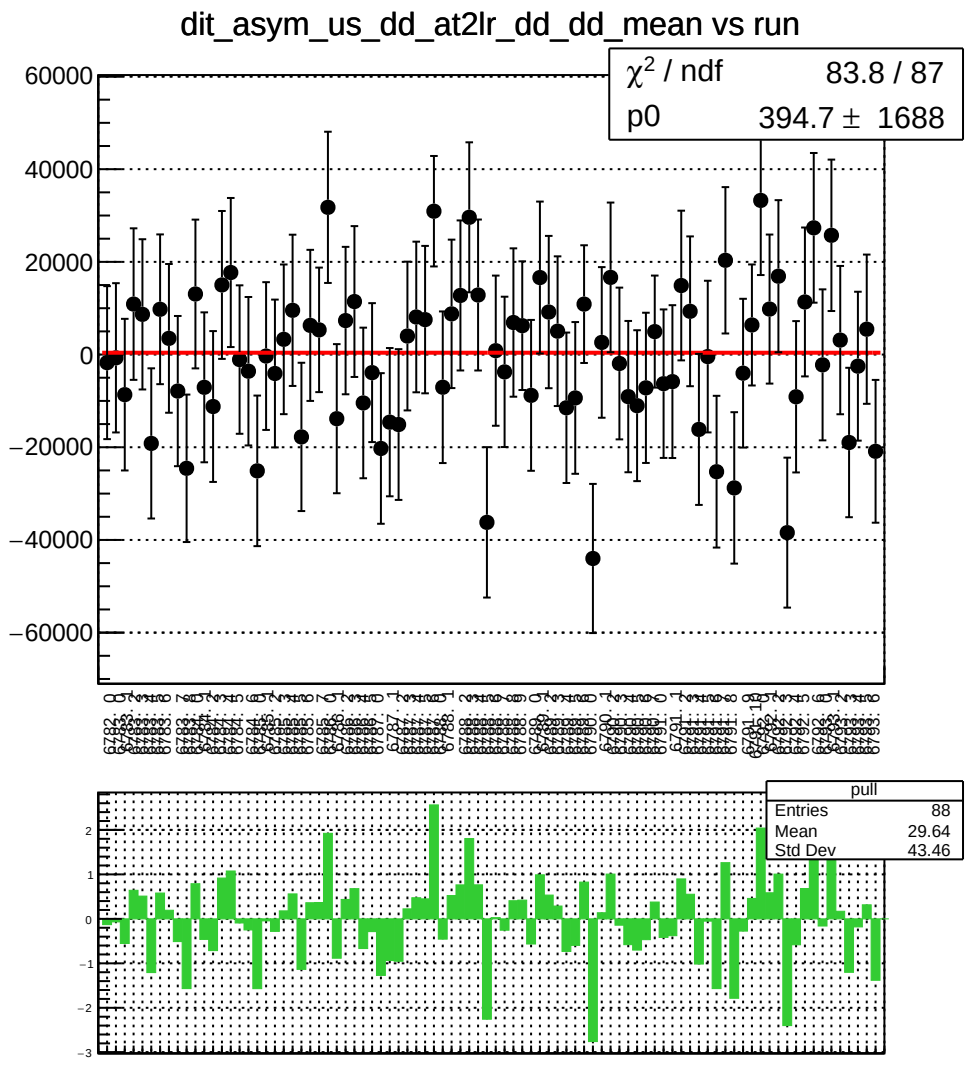

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.67 / 87
p0 194.4 ± 1687
pull
Entries 88
Mean 27.63
Std Dev 40.5

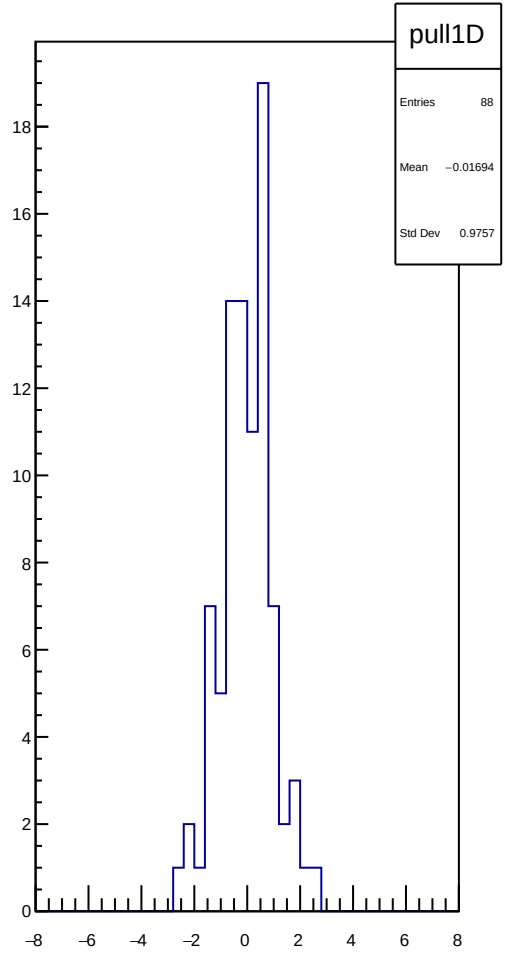

pull1D
Entries 88
Mean −0.01767
Std Dev 0.9749

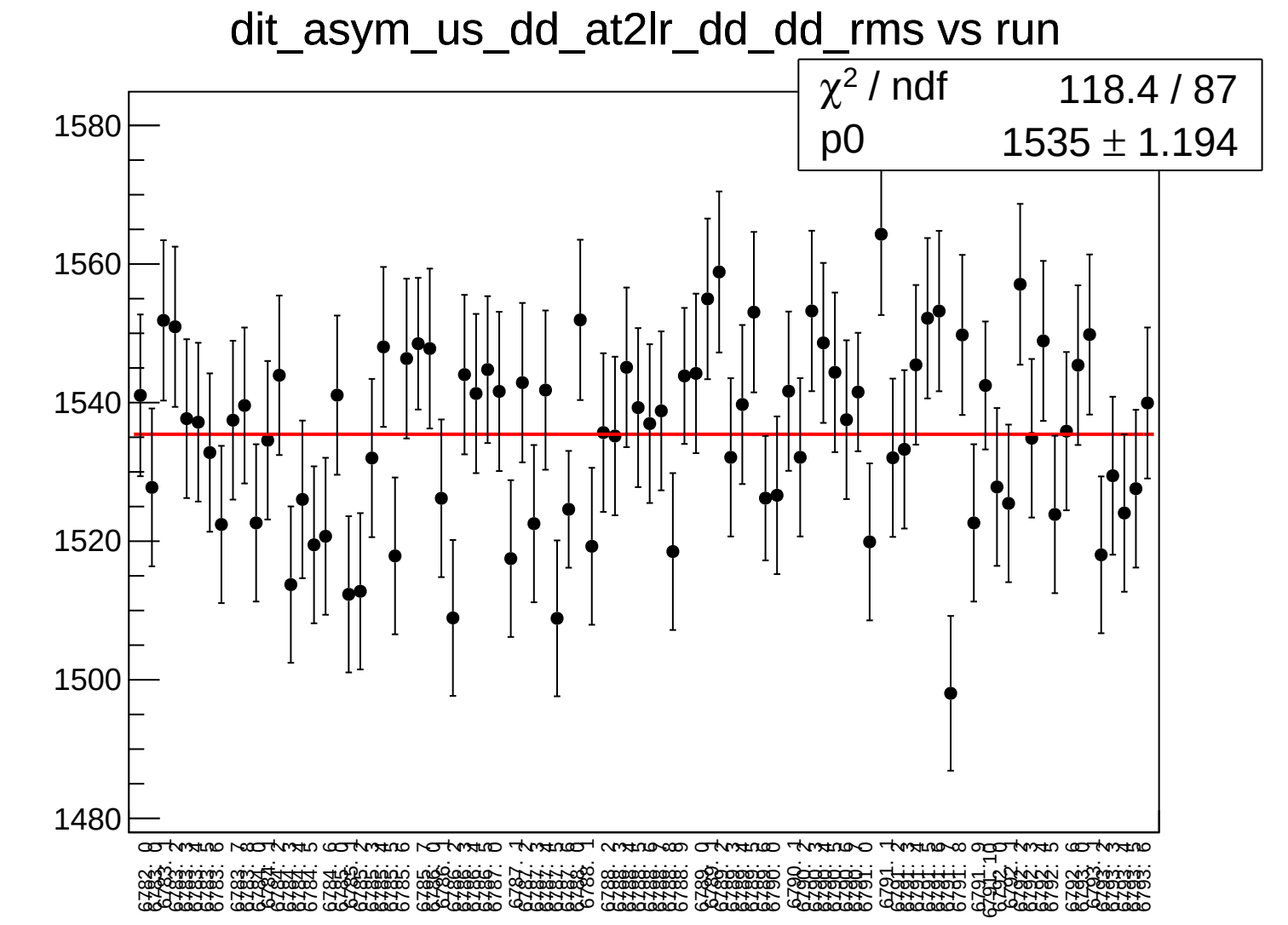

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 120.4 / 87
p0 1534 ± 1.193
1580
1560
1540
1520
1500
1480

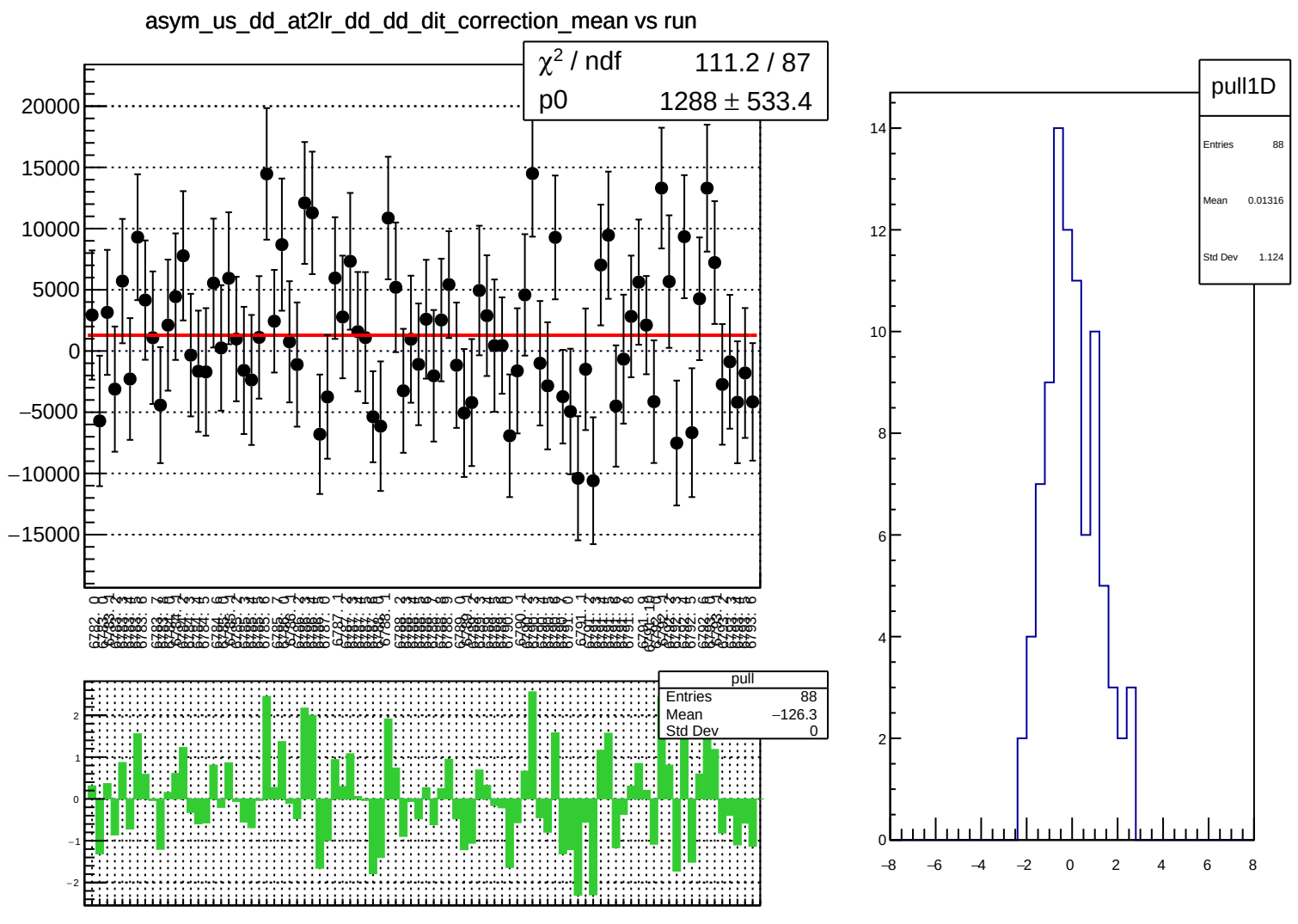

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 109.8 / 87
p0 1124 ± 482.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −243.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008305
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

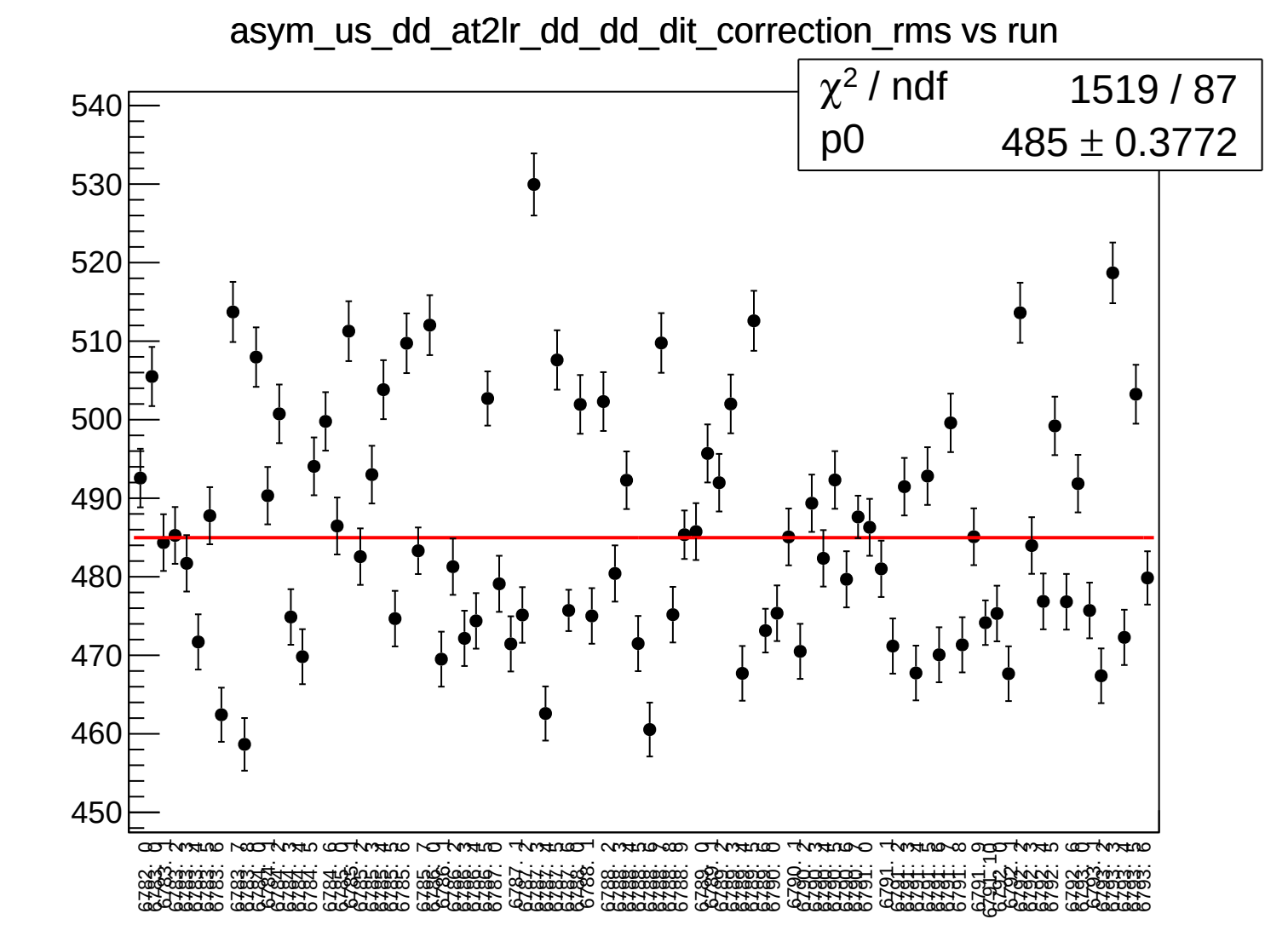

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5712 / 87
p0 438.4 ± 0.3414
500
480
460
440
420
400
380

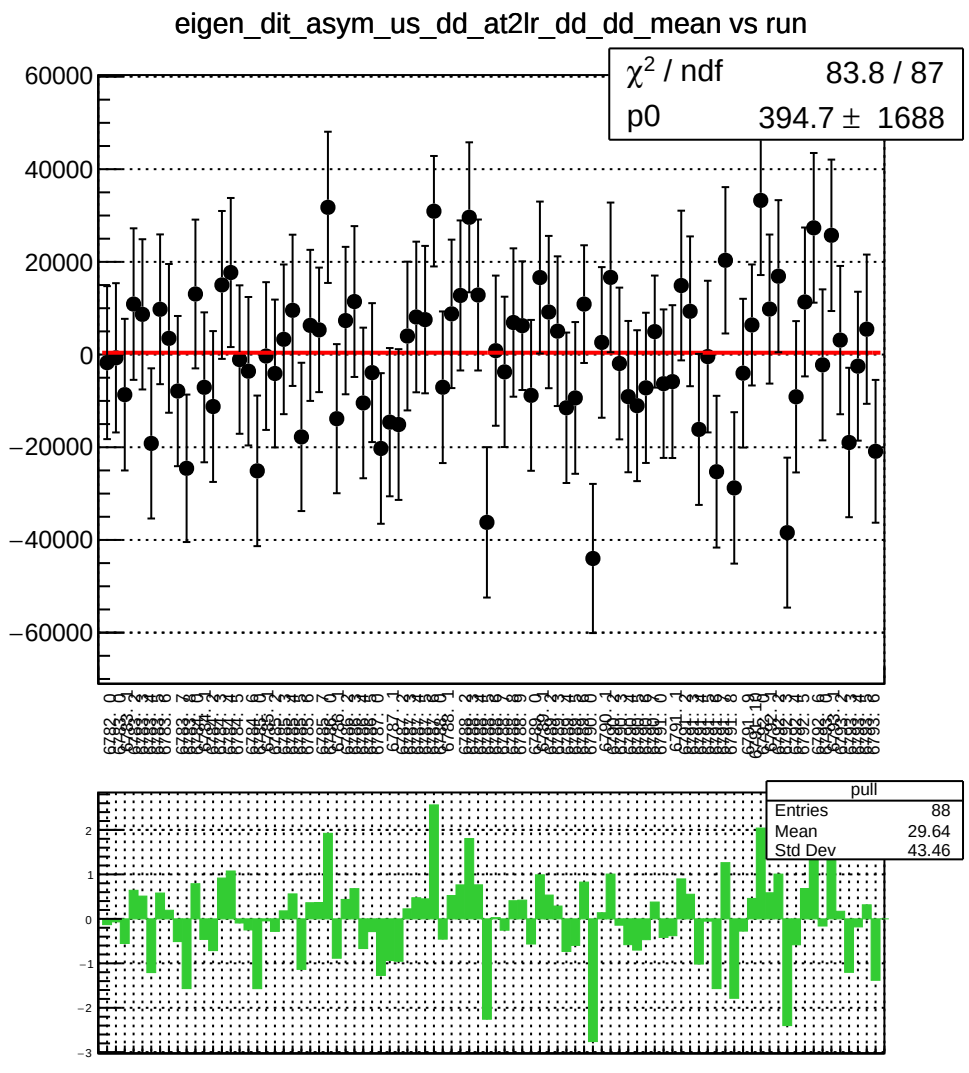

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.8 / 87
p0 394.7 ± 1688
pull
Entries 88
Mean 29.64
Std Dev 43.46

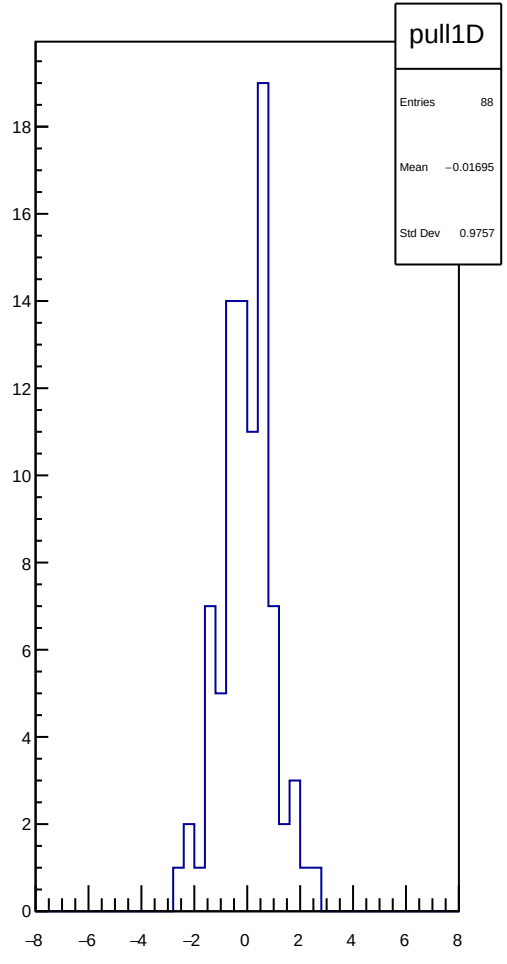

pull1D
Entries 88
Mean −0.01694
Std Dev 0.9757

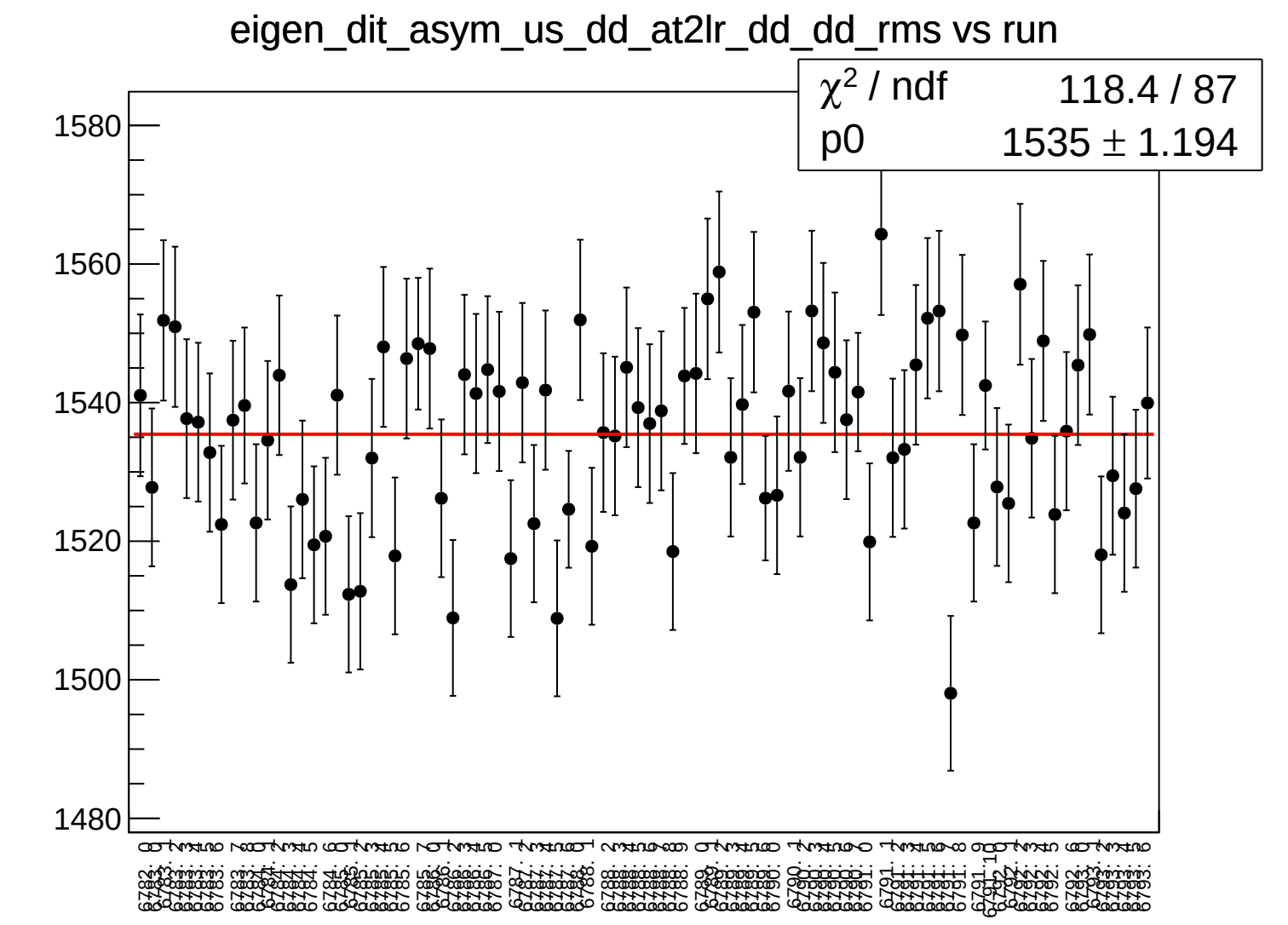

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 118.4 / 87
p0 1535 ± 1.194
1580
1560
1540
1520
1500
1480

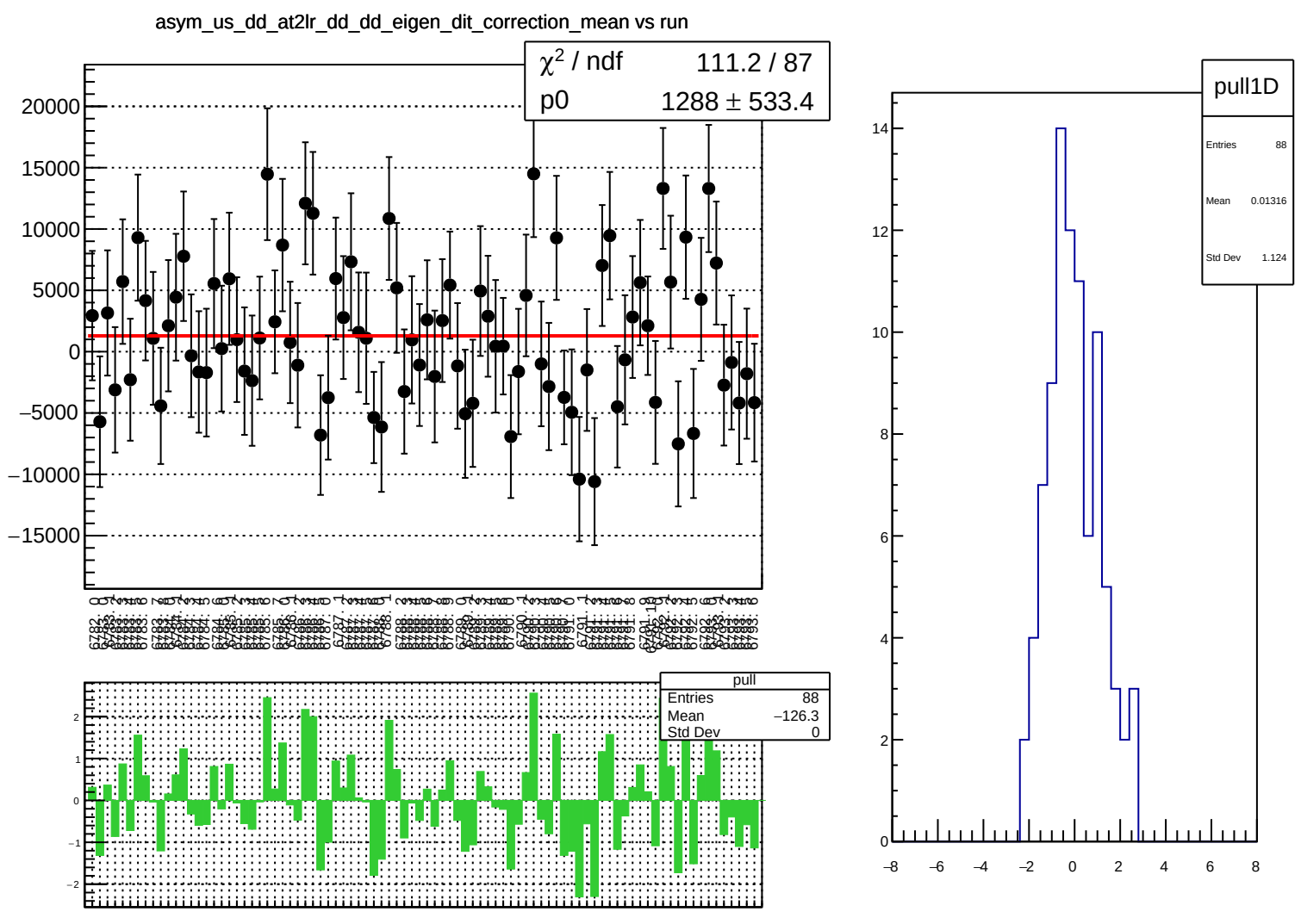

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 111.2 / 87
p0 1288 ± 533.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −126.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01316
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

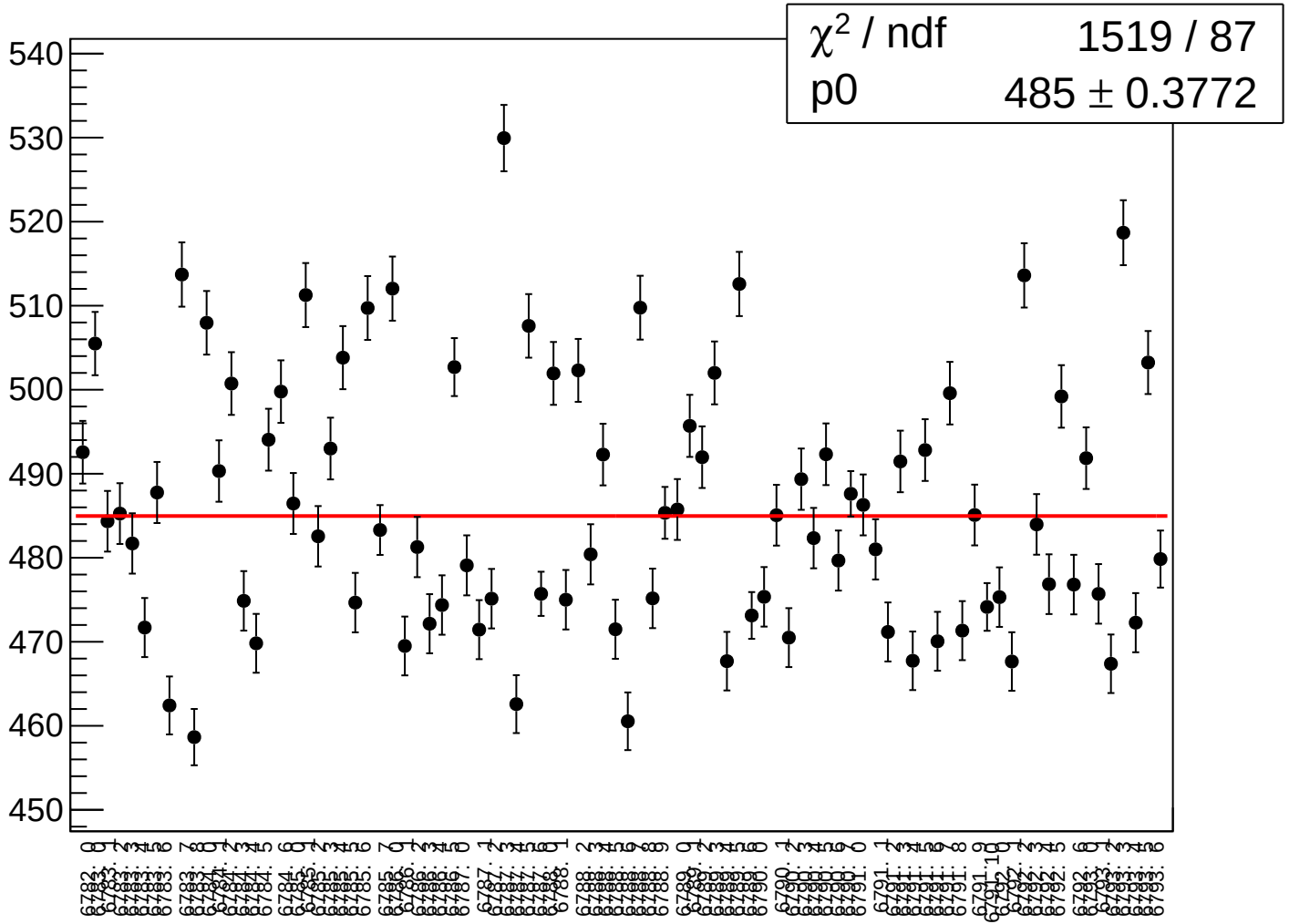

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1519 / 87
p0 485 ± 0.3772
540
530
520
510
500
490
480
470
460
450

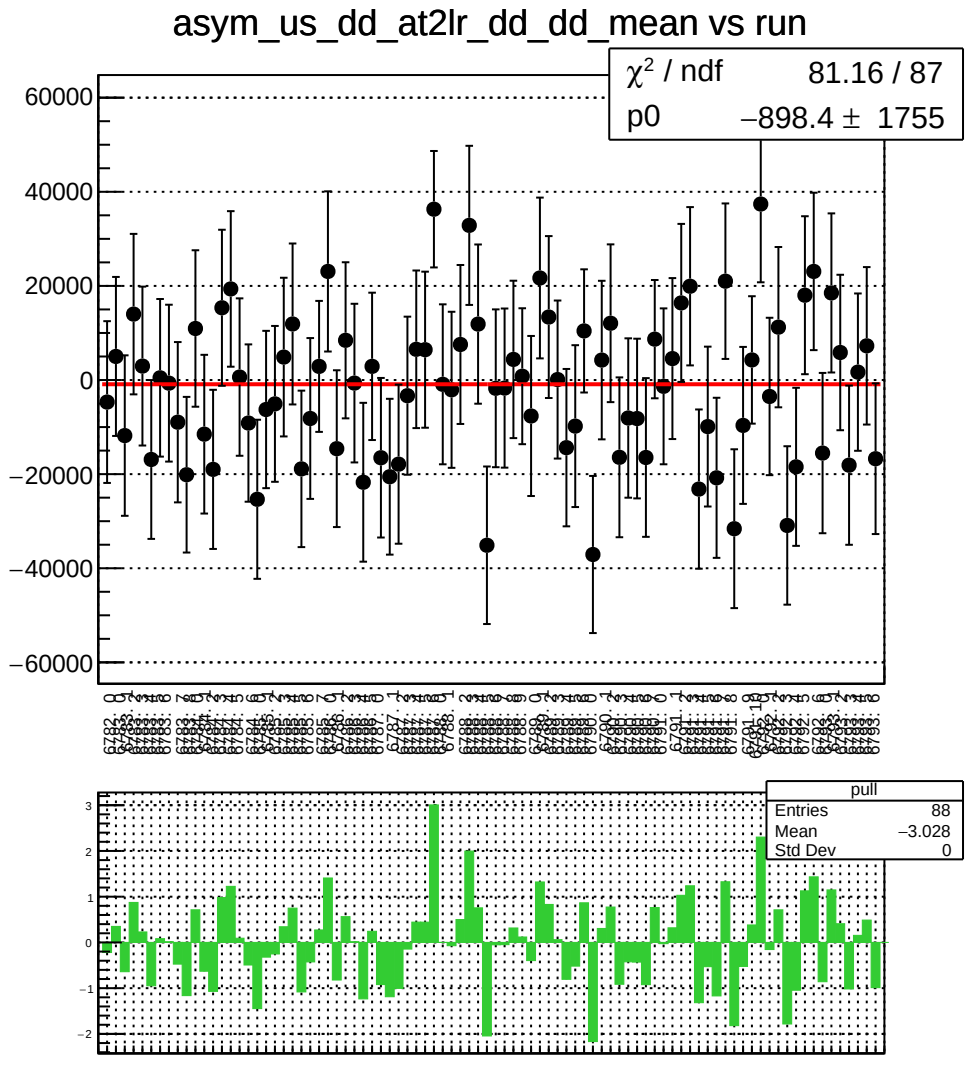

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.8 / 87
p0 394.7 ± 1688
pull
Entries 88
Mean 29.64
Std Dev 43.46

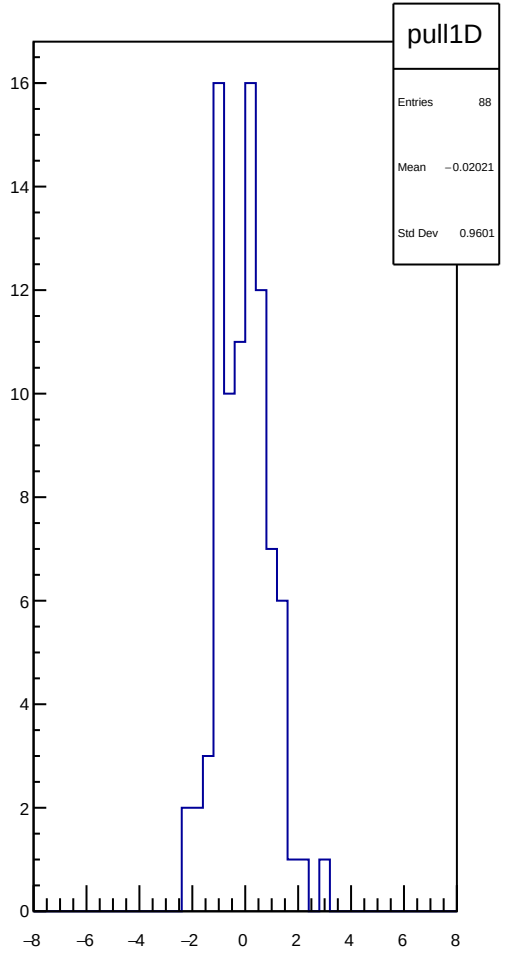

pull1D
Entries 88
Mean −0.01695
Std Dev 0.9757

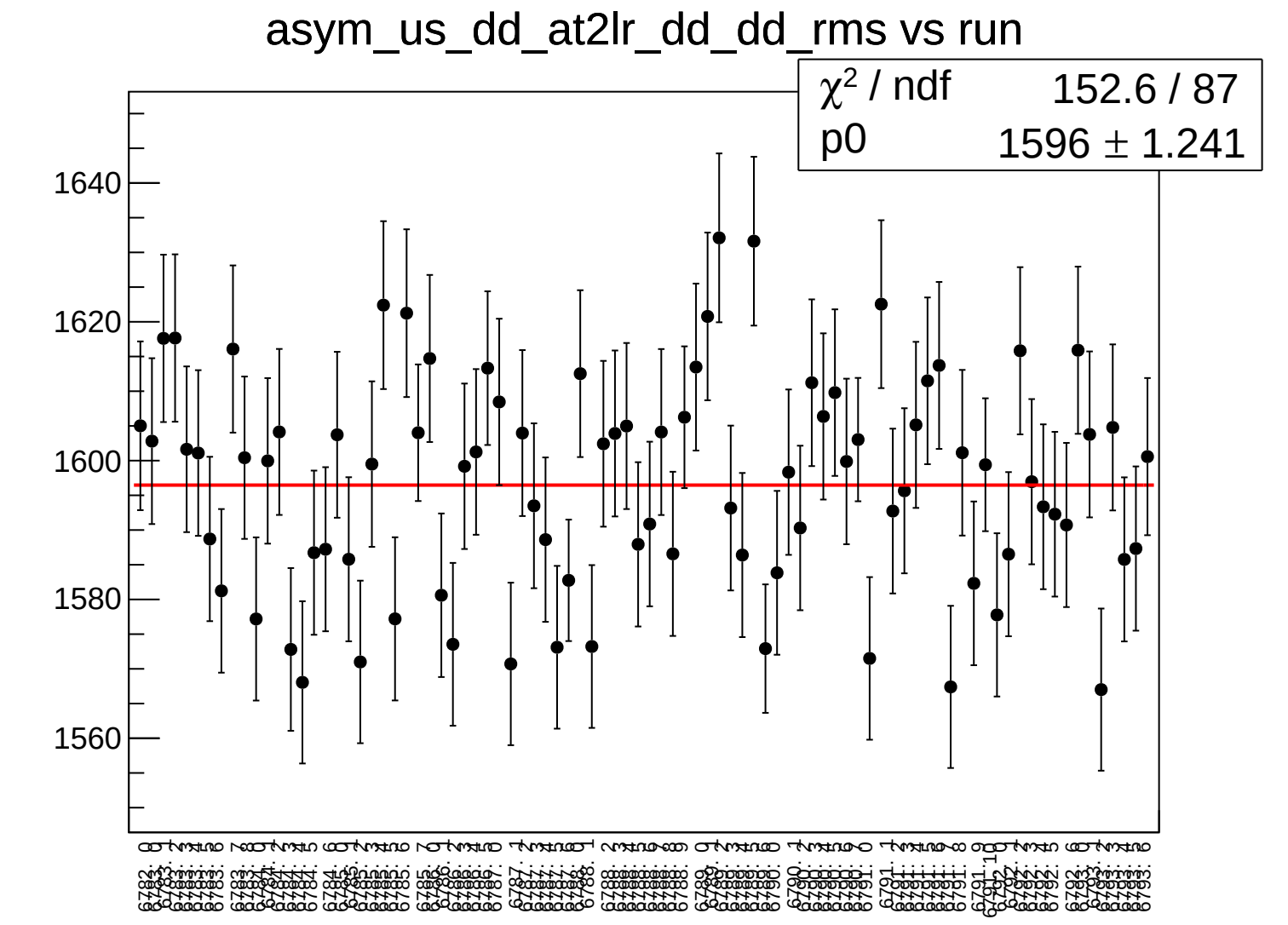

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 118.4 / 87
p0 1535 ± 1.194
1580
1560
1540
1520
1500
1480

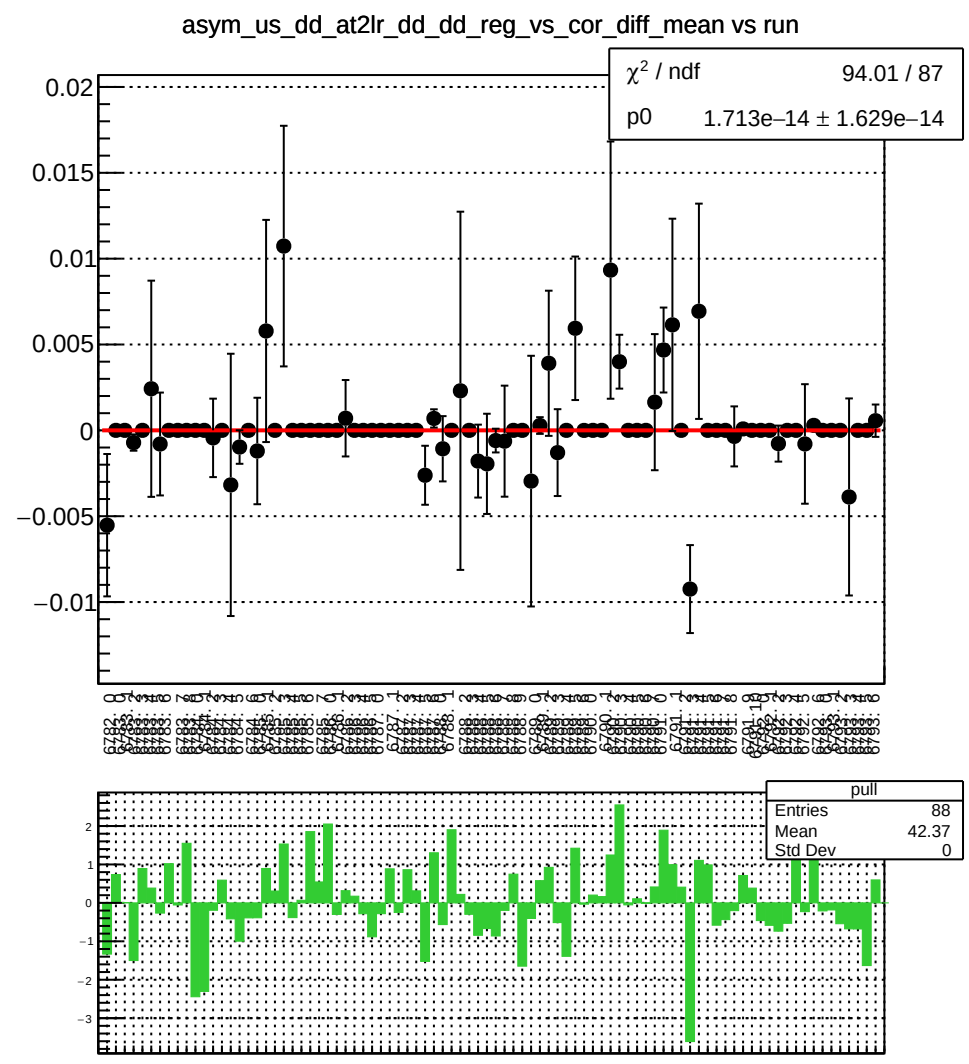

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 111.2 / 87
p0 1288 ± 533.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −126.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01316
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

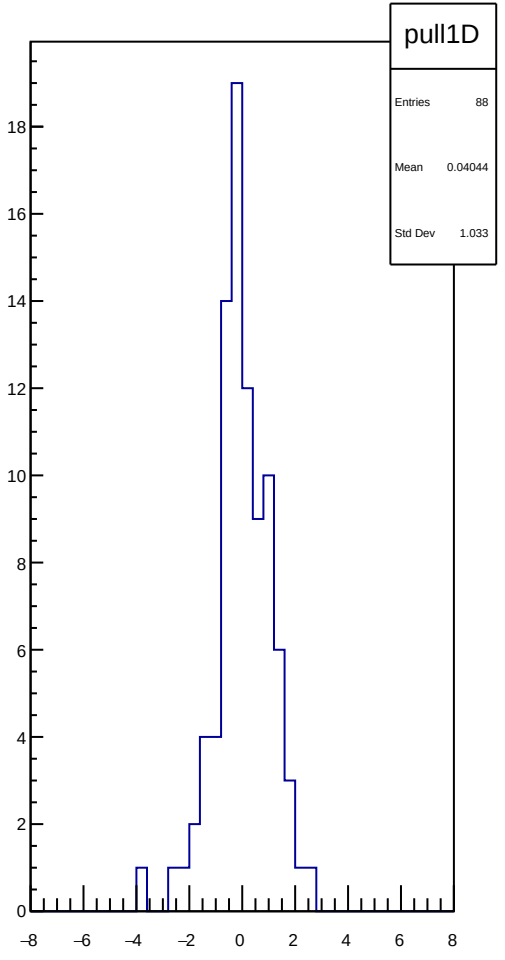

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1519 / 87
p0 485 ± 0.3772
540
530
520
510
500
490
480
470
460
450

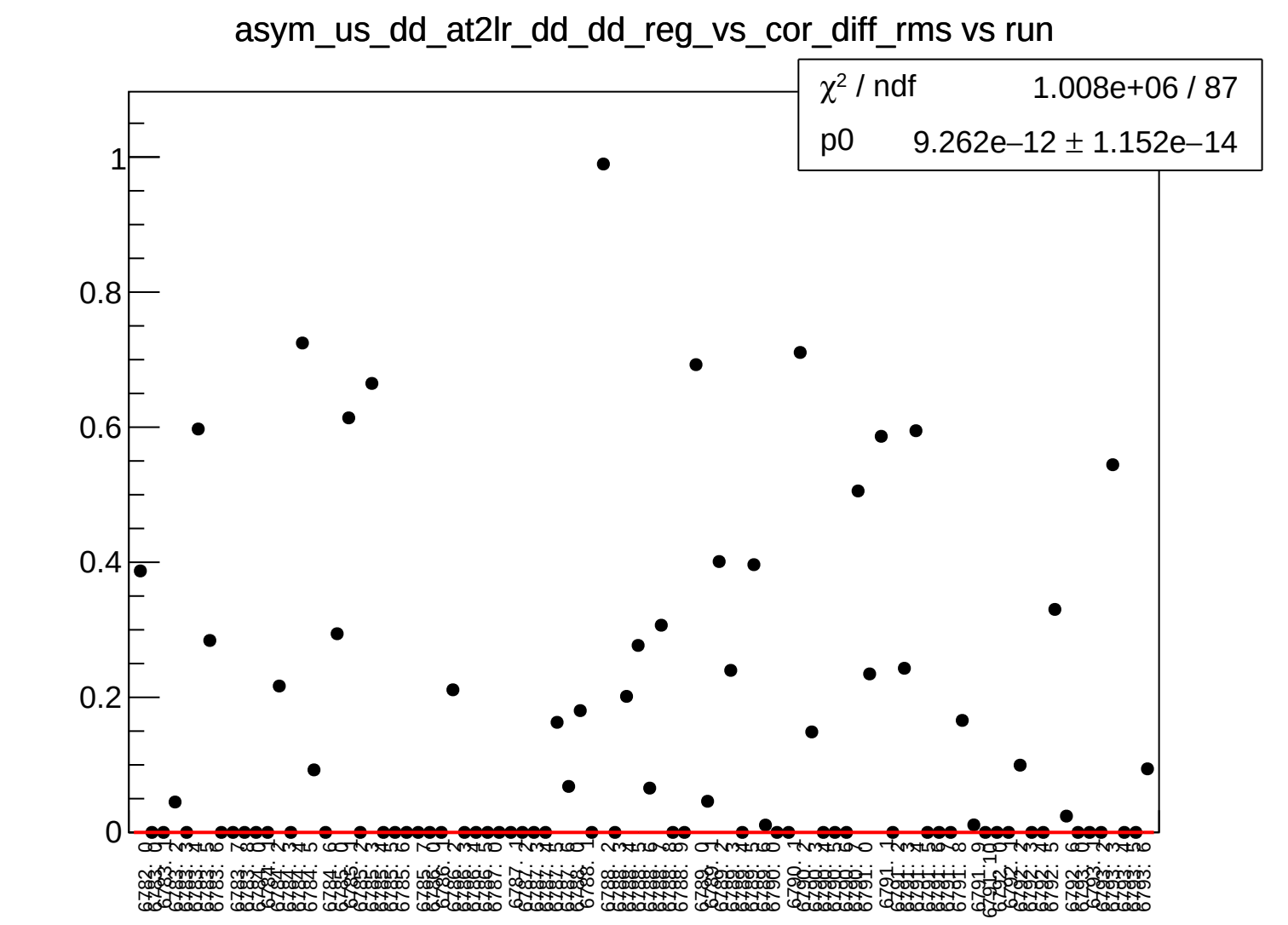

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 81.16 / 87
p0 −898.4 ± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −3.028
Std Dev 0
3
2
1
0
−1
−2

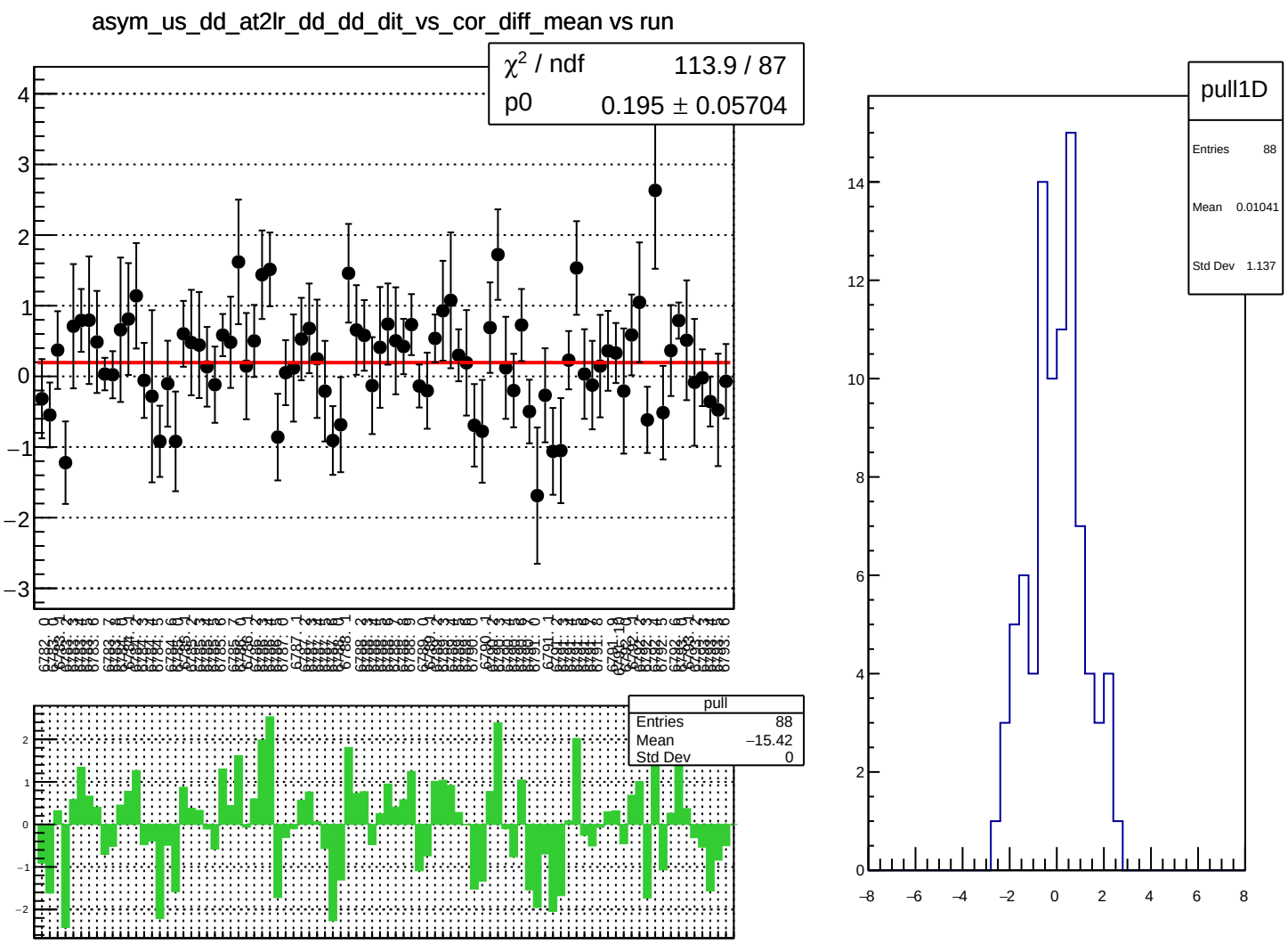

pull1D
Entries 88
Mean −0.02021
Std Dev 0.9601
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

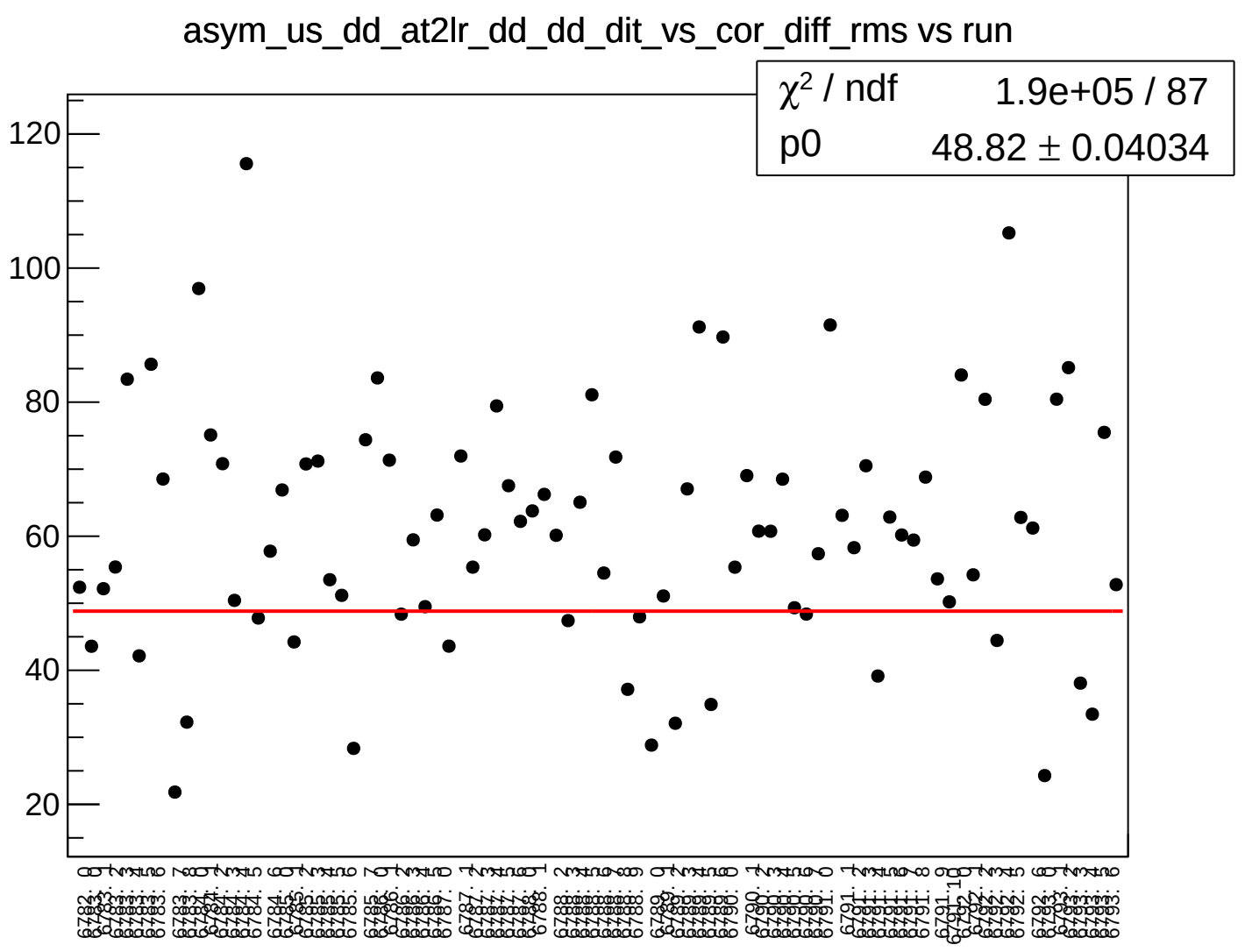

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 152.6 / 87
p0 1596 ± 1.241
1640
1620
1600
1580
1560

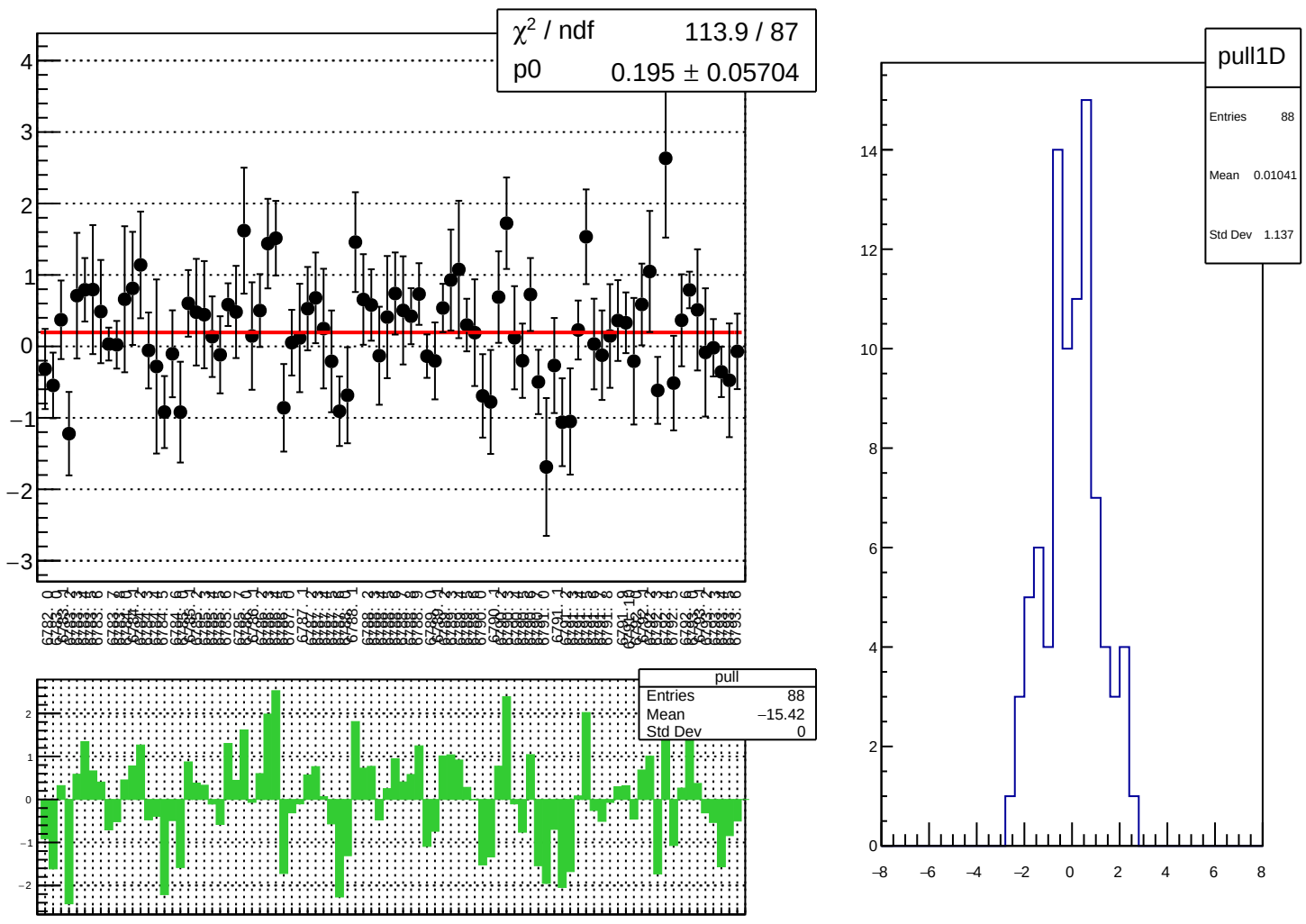

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.01 / 87
p0 1.713e−14 ± 1.629e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 42.37
Std Dev 0
2
1
0
−1
−2
−3

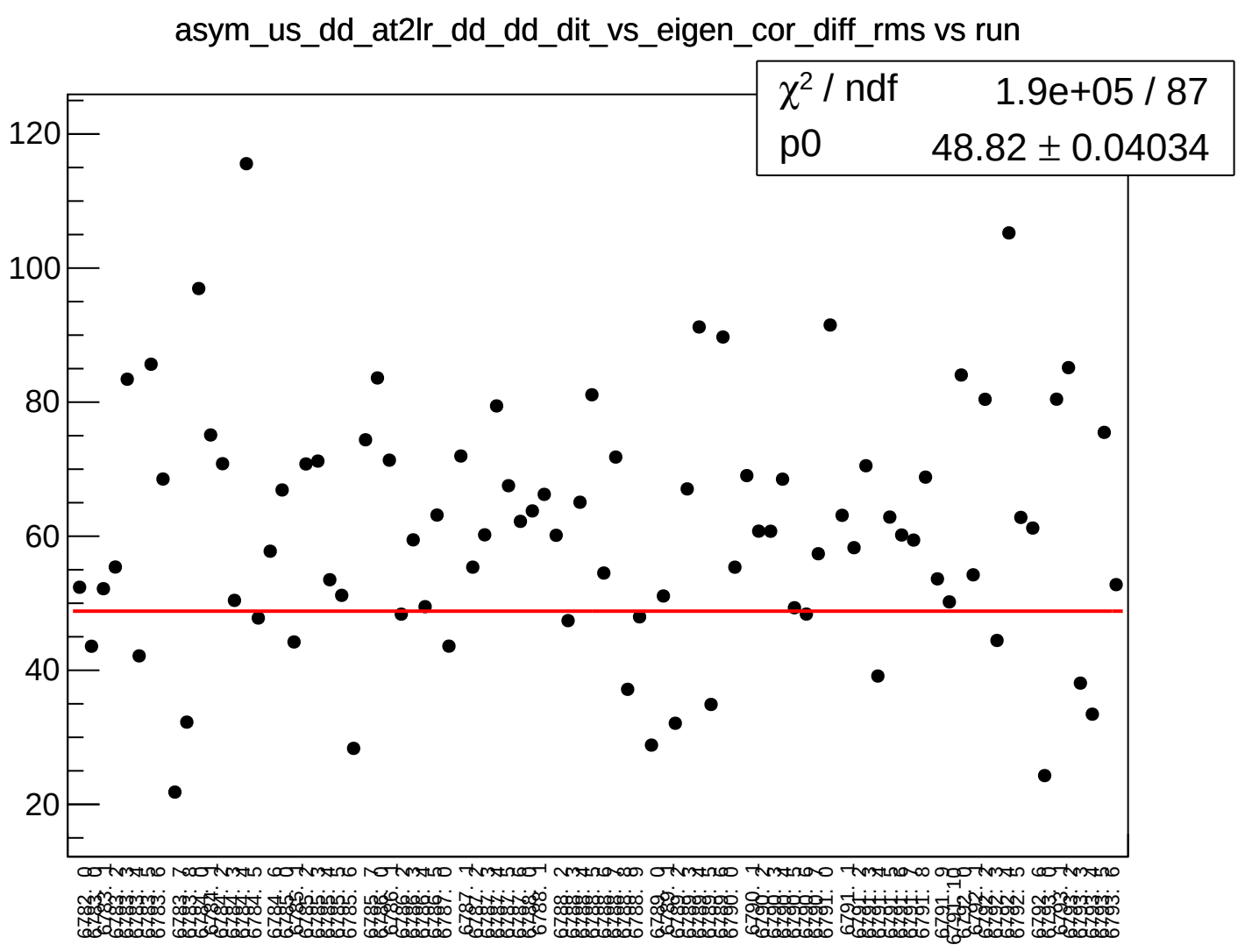

pull1D
Entries 88
Mean 0.04044
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

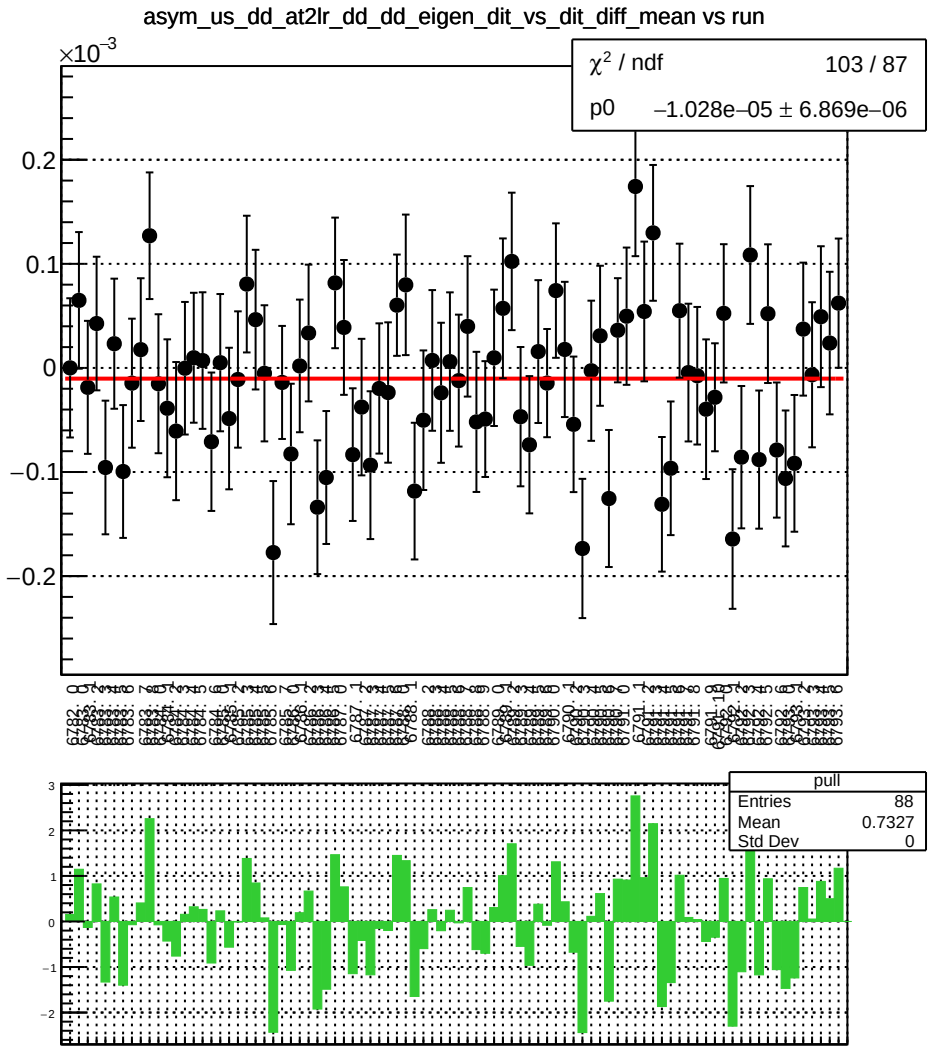

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.008e+06 / 87
p0 9.262e−12 ± 1.152e−14
1
0.8
0.6
0.4
0.2
0

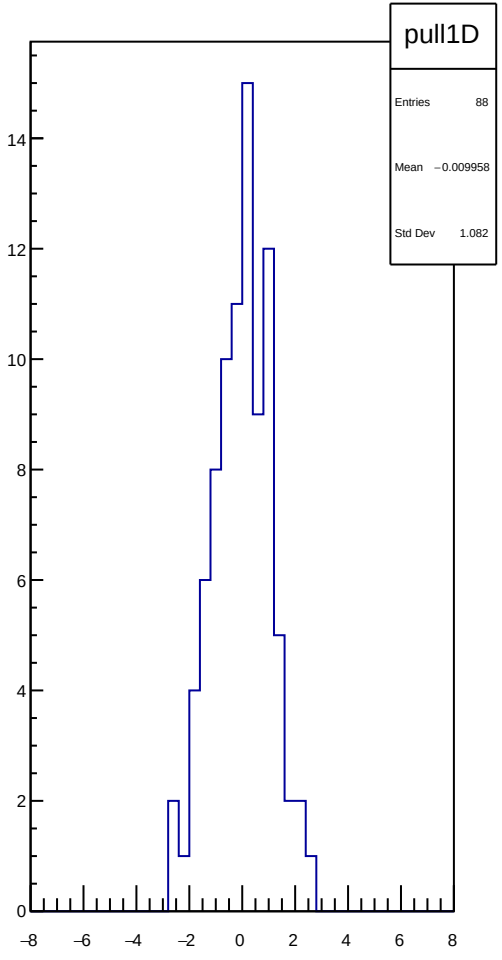

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.9 / 87
p0 0.195 ± 0.05704
pull
Entries 88
Mean −15.42
Std Dev 0
pull1D
Entries 88
Mean 0.01041
Std Dev 1.137

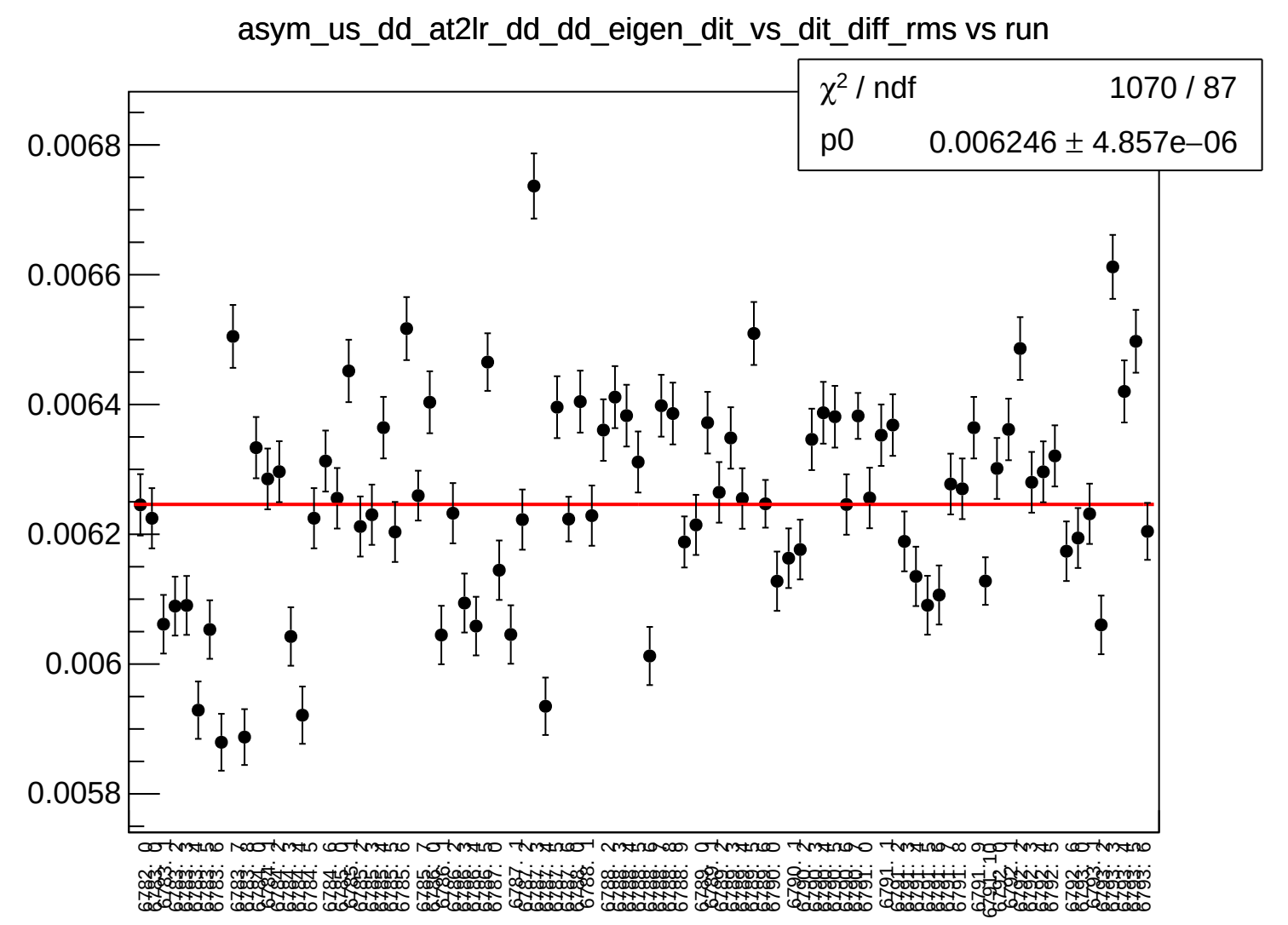

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.9e+05 / 87
p0 48.82 ± 0.04034
120
100
80
60
40
20

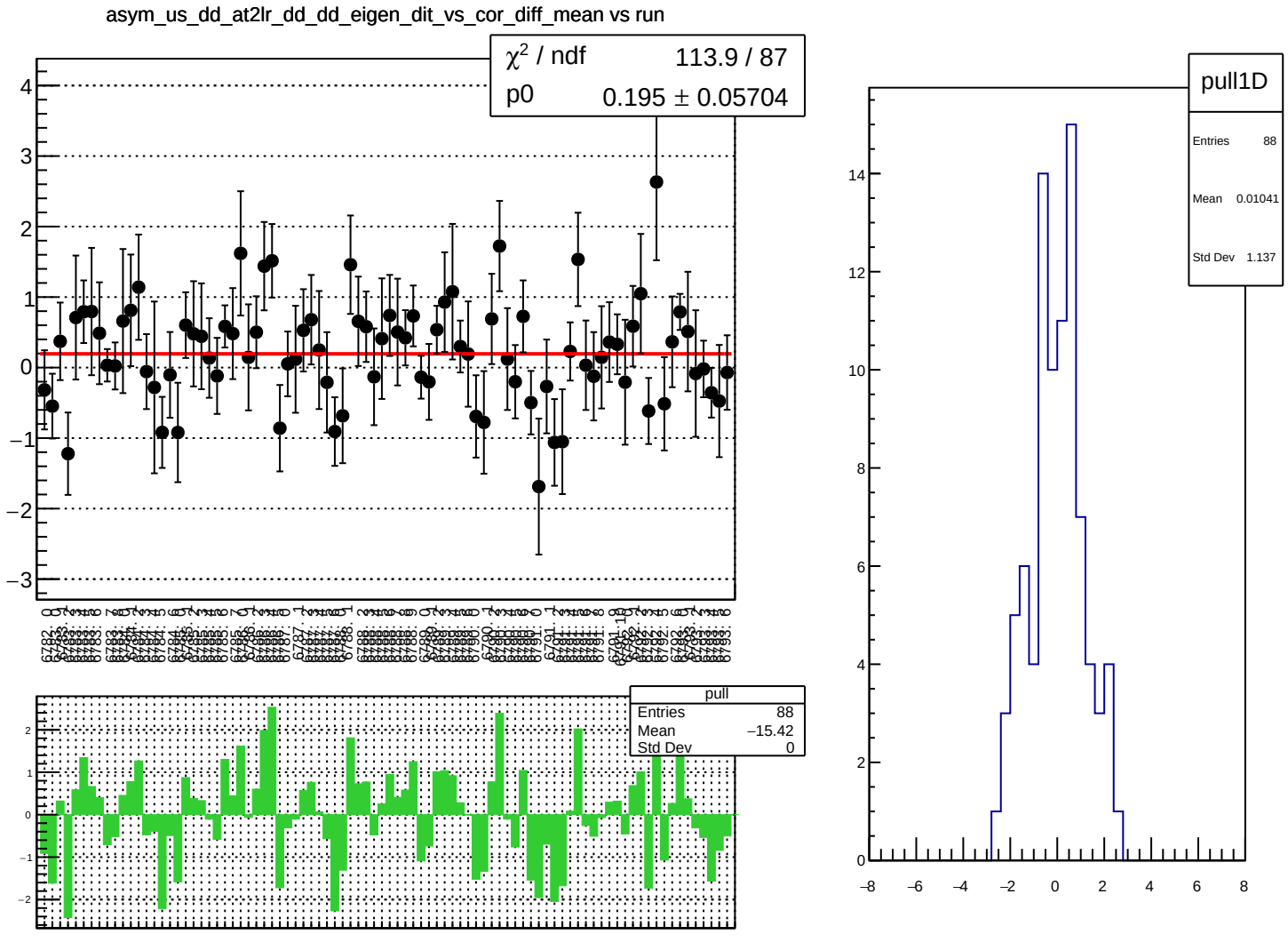

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.9 / 87
p0 0.195 ± 0.05704
pull
Entries 88
Mean −15.42
Std Dev 0
pull1D
Entries 88
Mean 0.01041
Std Dev 1.137

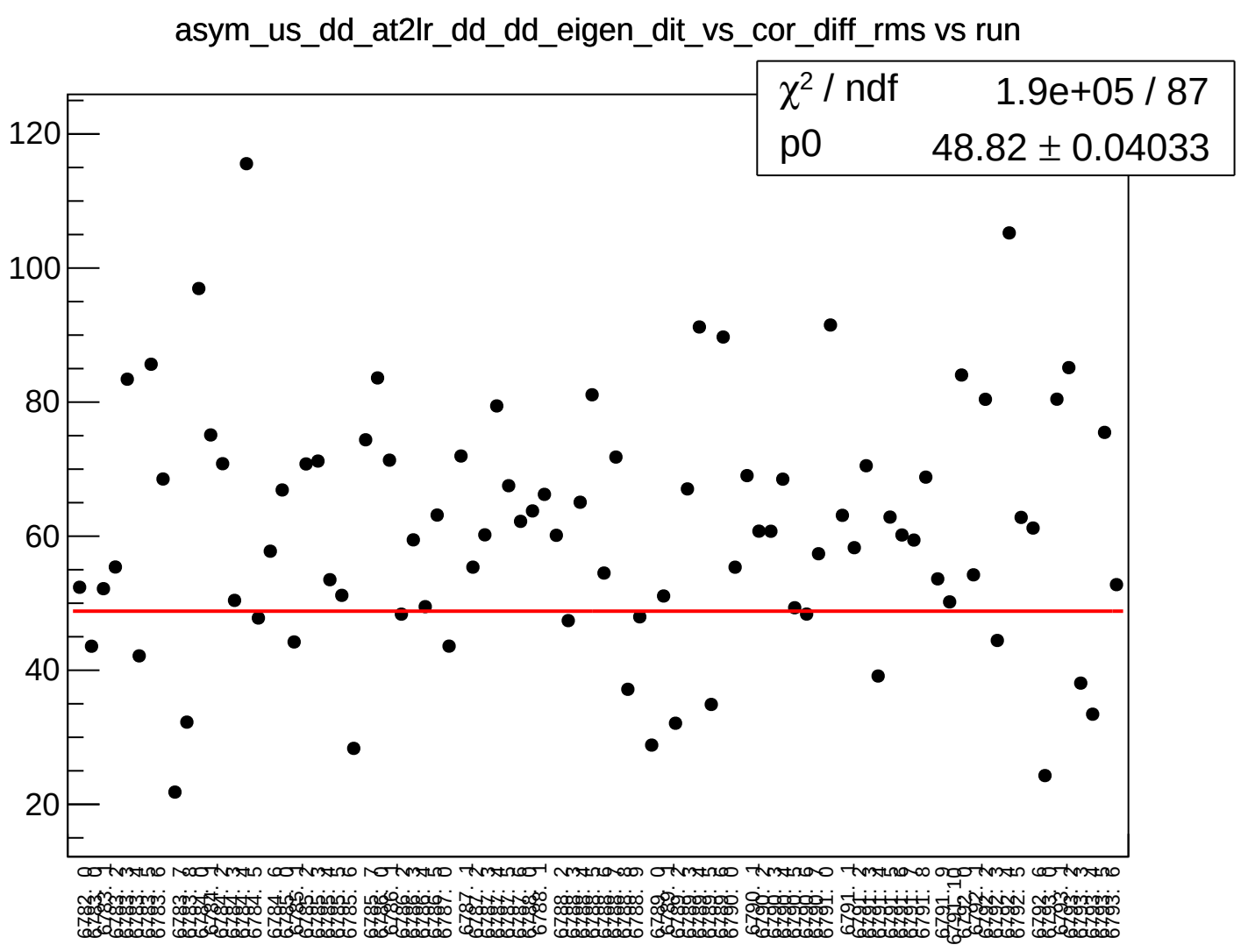

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.9e+05 / 87
p0 48.82 ± 0.04034
120
100
80
60
40
20

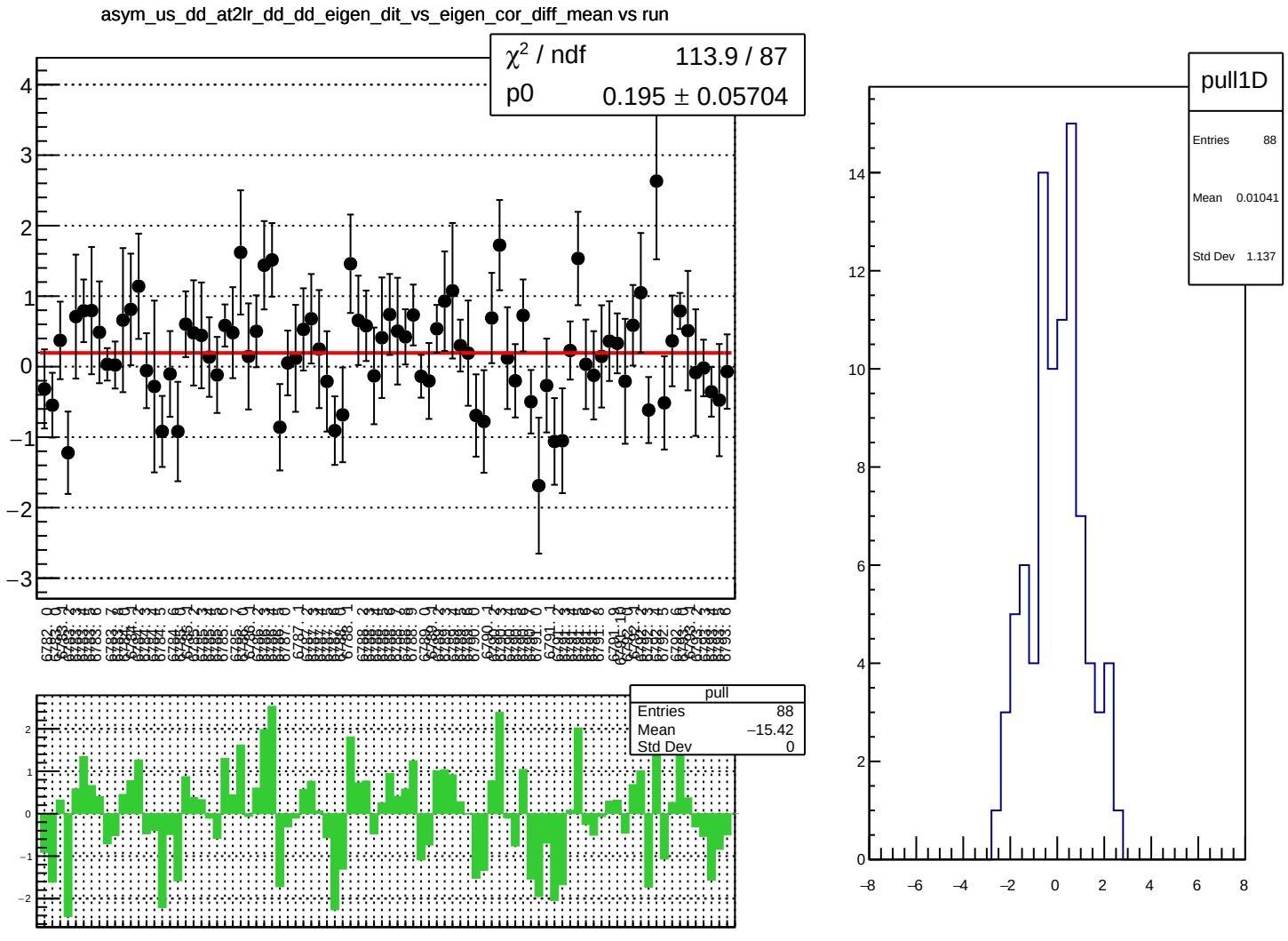

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 87
p0 −1.028e−05 ± 6.869e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 0.7327
Std Dev 0
3
2
1
0
−1
−2

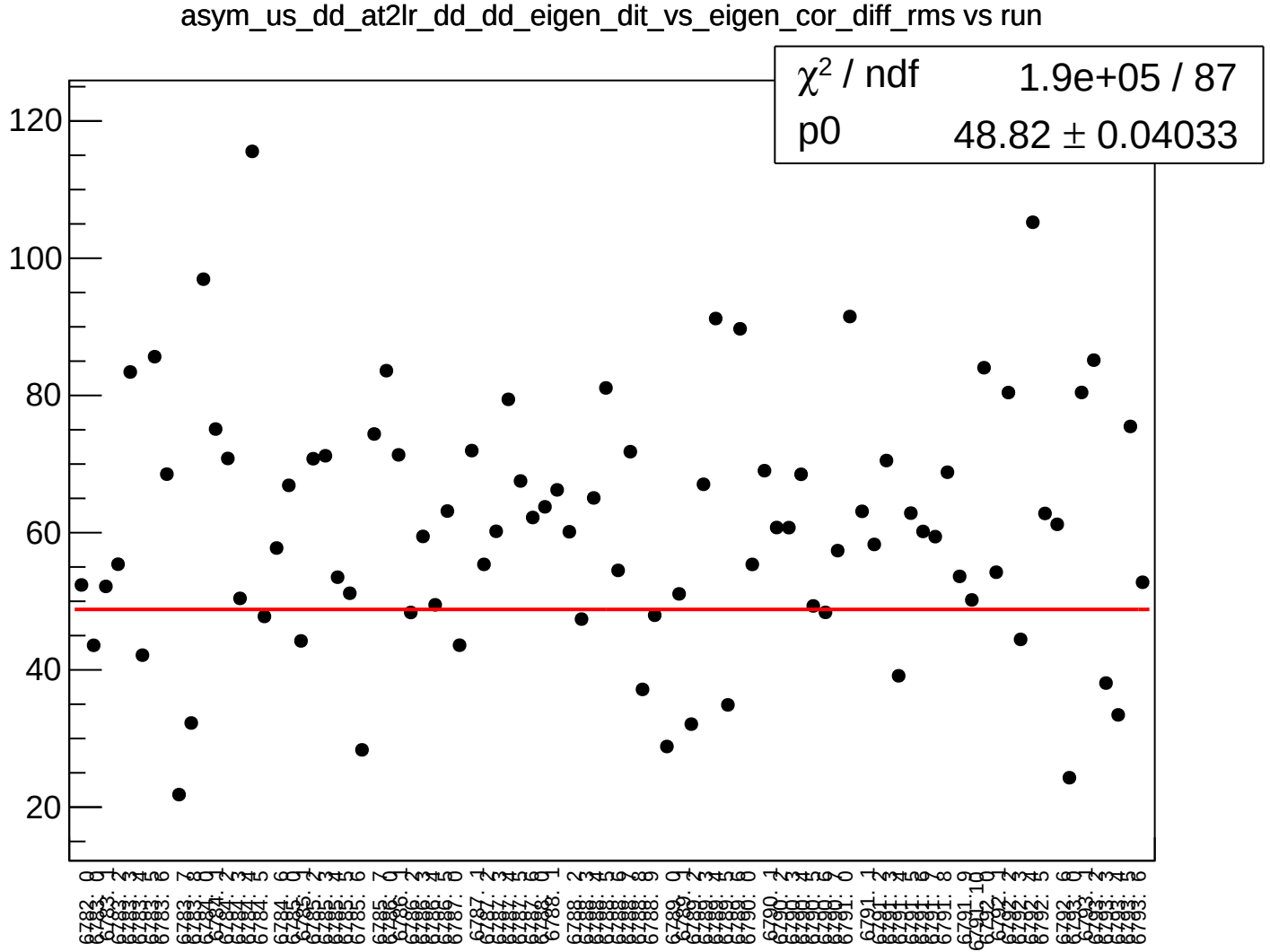

pull1D
Entries 88
Mean −0.009958
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

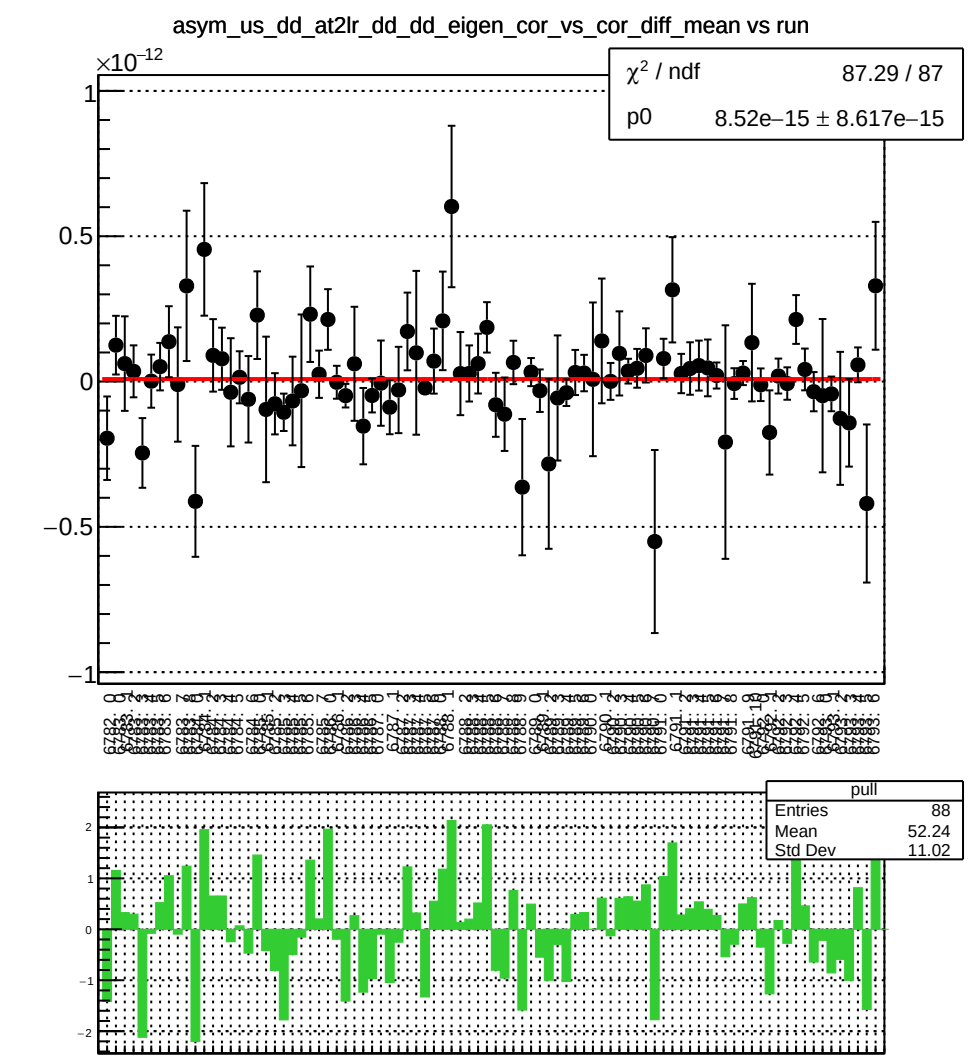

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1070 / 87
p0 0.006246 ± 4.857e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

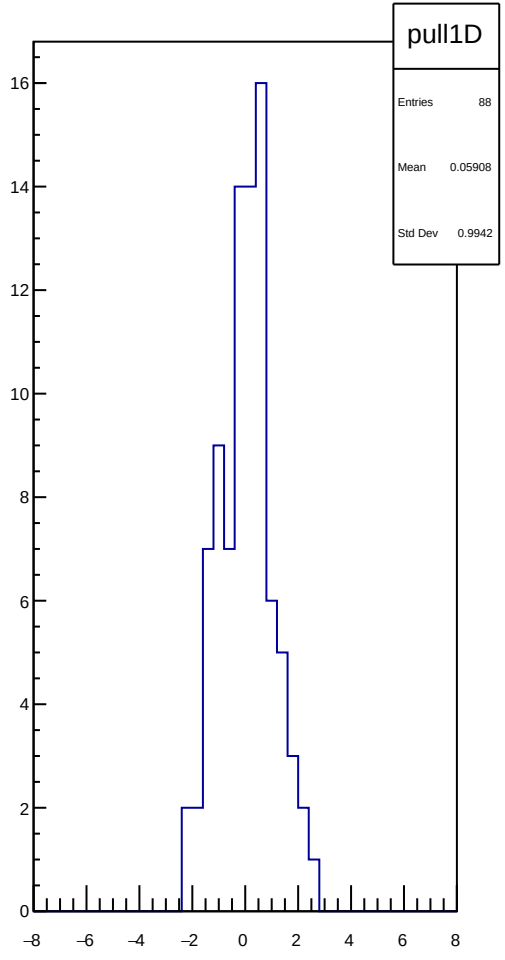

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.9 / 87
p0 0.195 ± 0.05704
pull
Entries 88
Mean −15.42
Std Dev 0
pull1D
Entries 88
Mean 0.01041
Std Dev 1.137

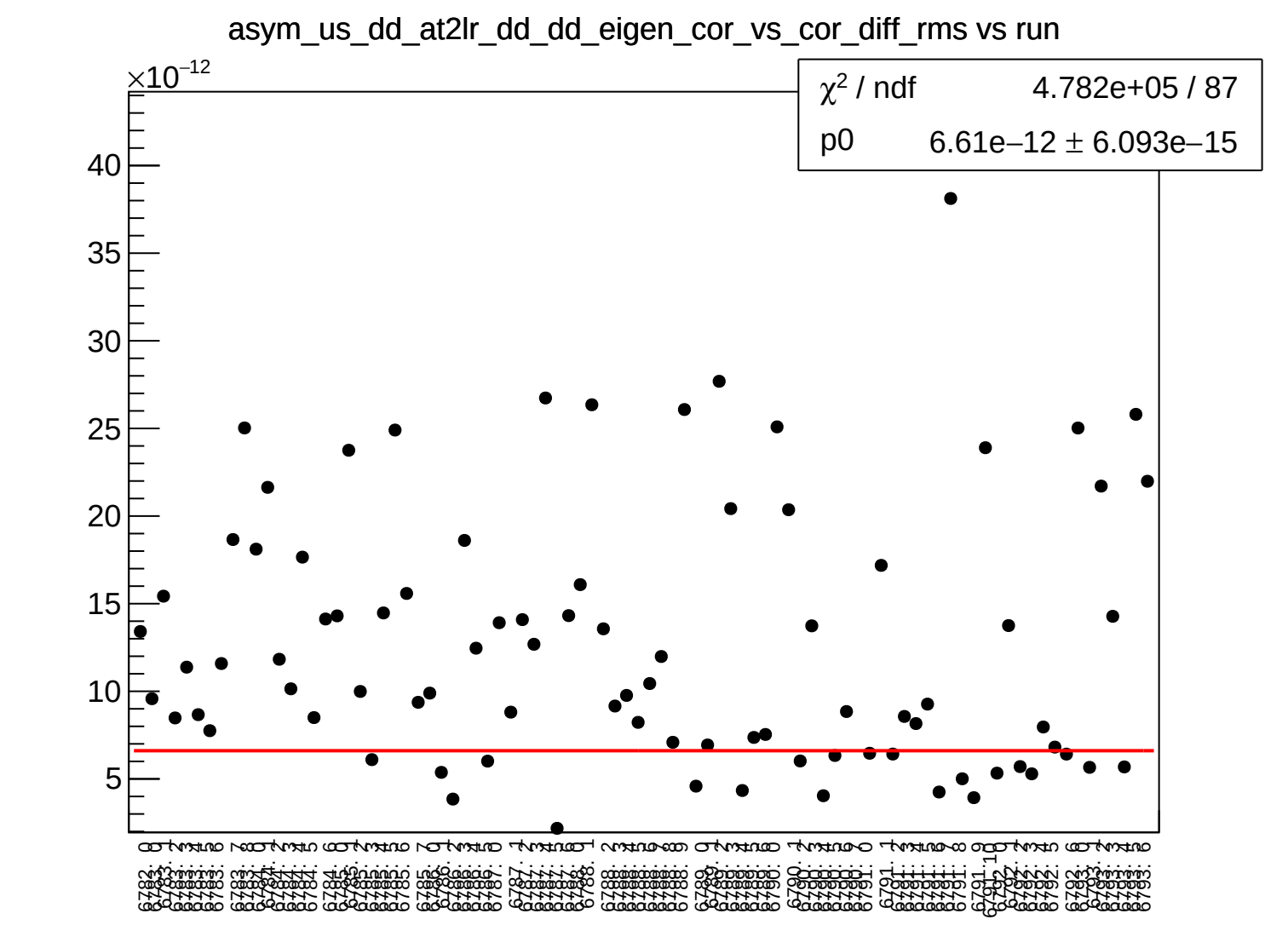

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.9e+05 / 87
p0 48.82 ± 0.04033
120
100
80
60
40
20

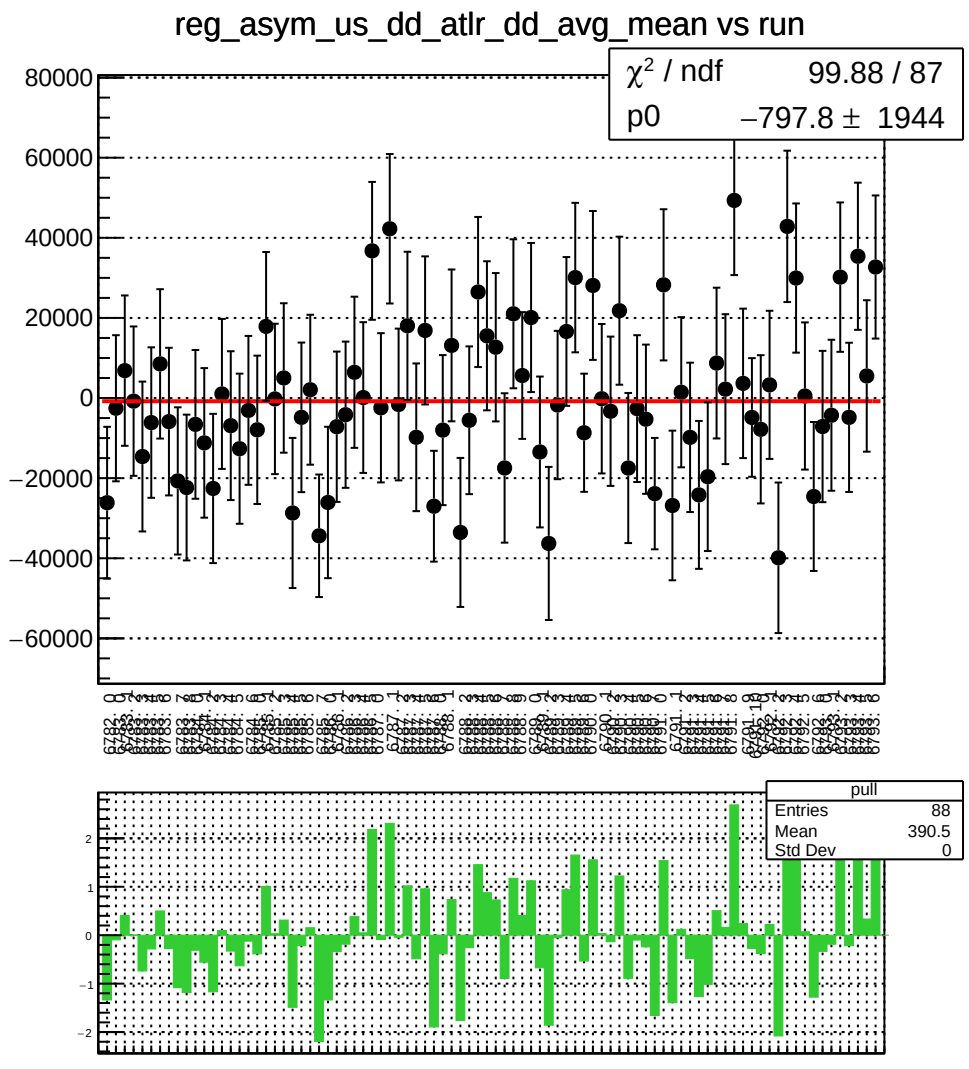

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.9 / 87
p0 0.195 ± 0.05704
pull
Entries 88
Mean −15.42
Std Dev 0
pull1D
Entries 88
Mean 0.01041
Std Dev 1.137

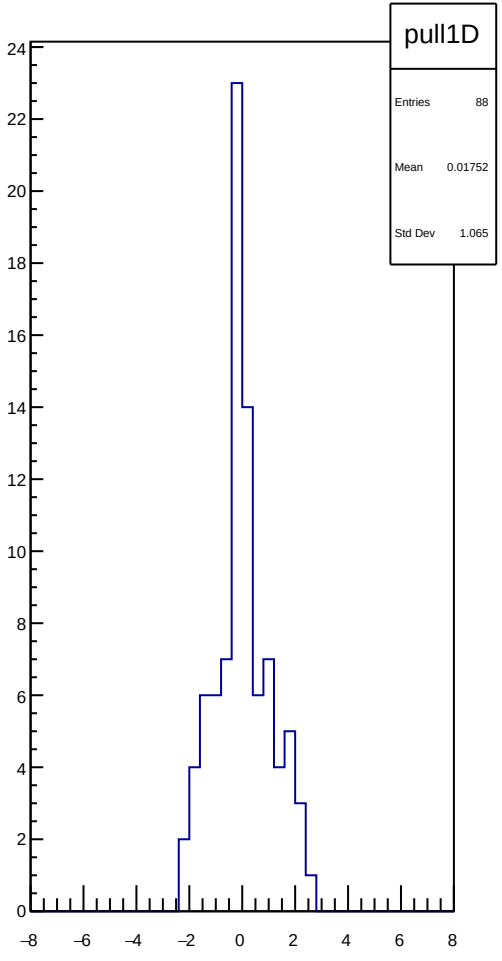

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.9e+05 / 87
p0 48.82 ± 0.04033
120
100
80
60
40
20

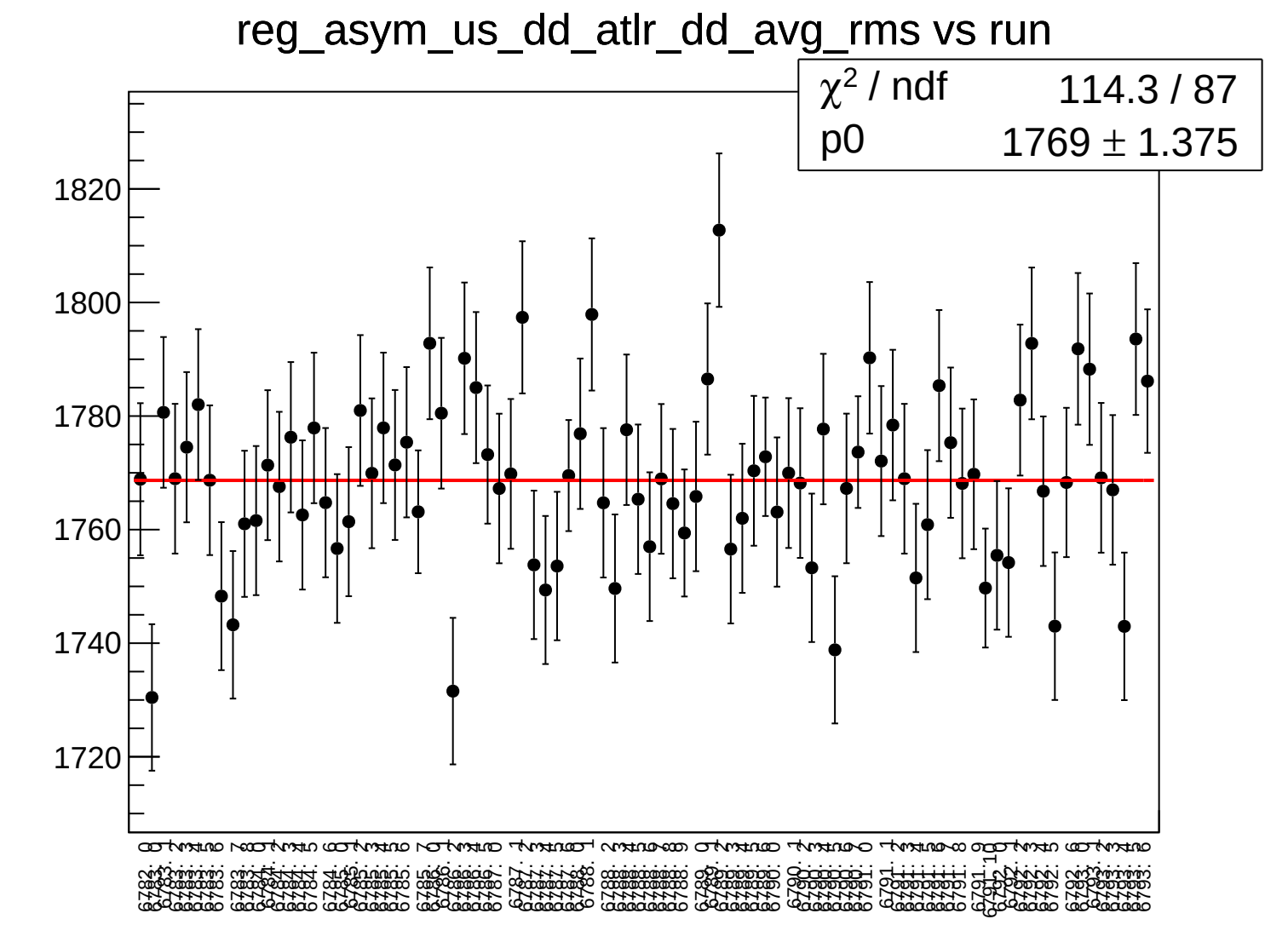

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.29 / 87
p0 8.52e−15 ± 8.617e−15
pull
Entries 88
Mean 52.24
Std Dev 11.02

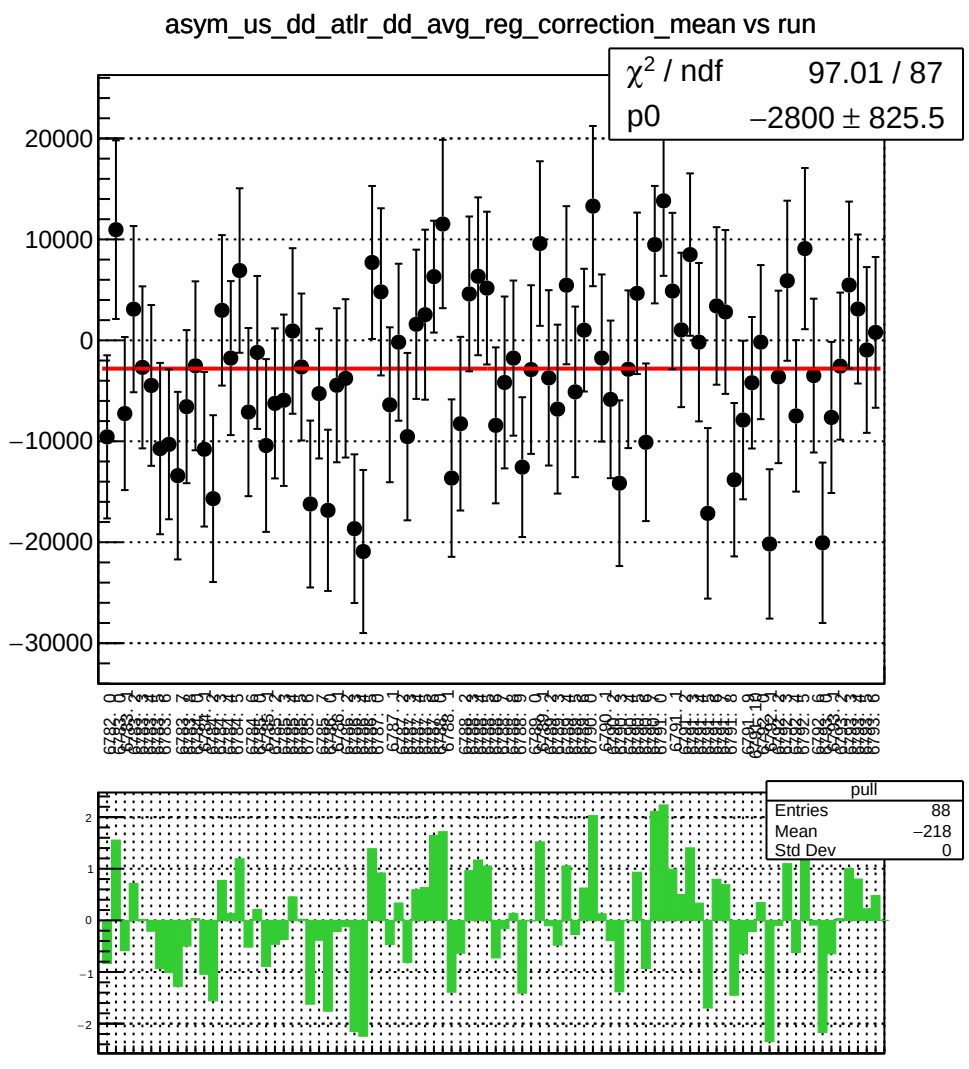

pull1D
Entries 88
Mean 0.05908
Std Dev 0.9942

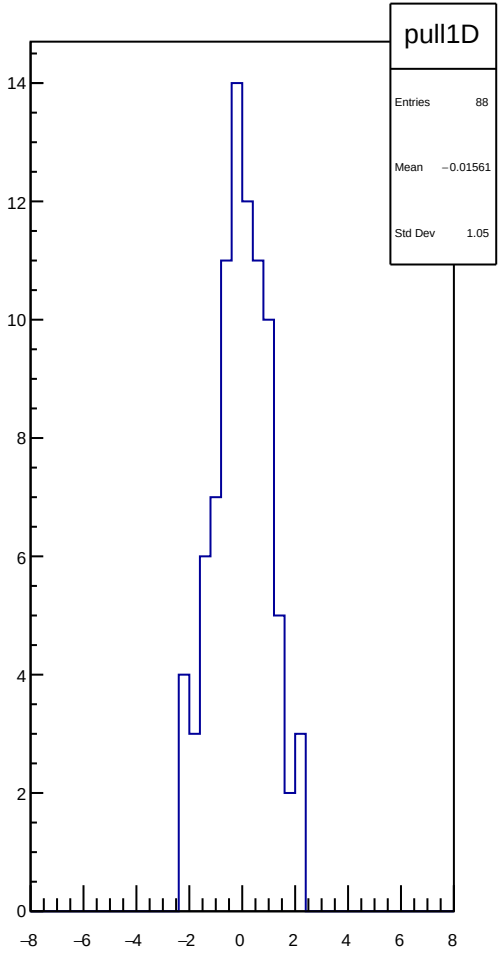

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.782e+05 / 87
p0 6.61e−12 ± 6.093e−15
40
35
30
25
20
15
10
5

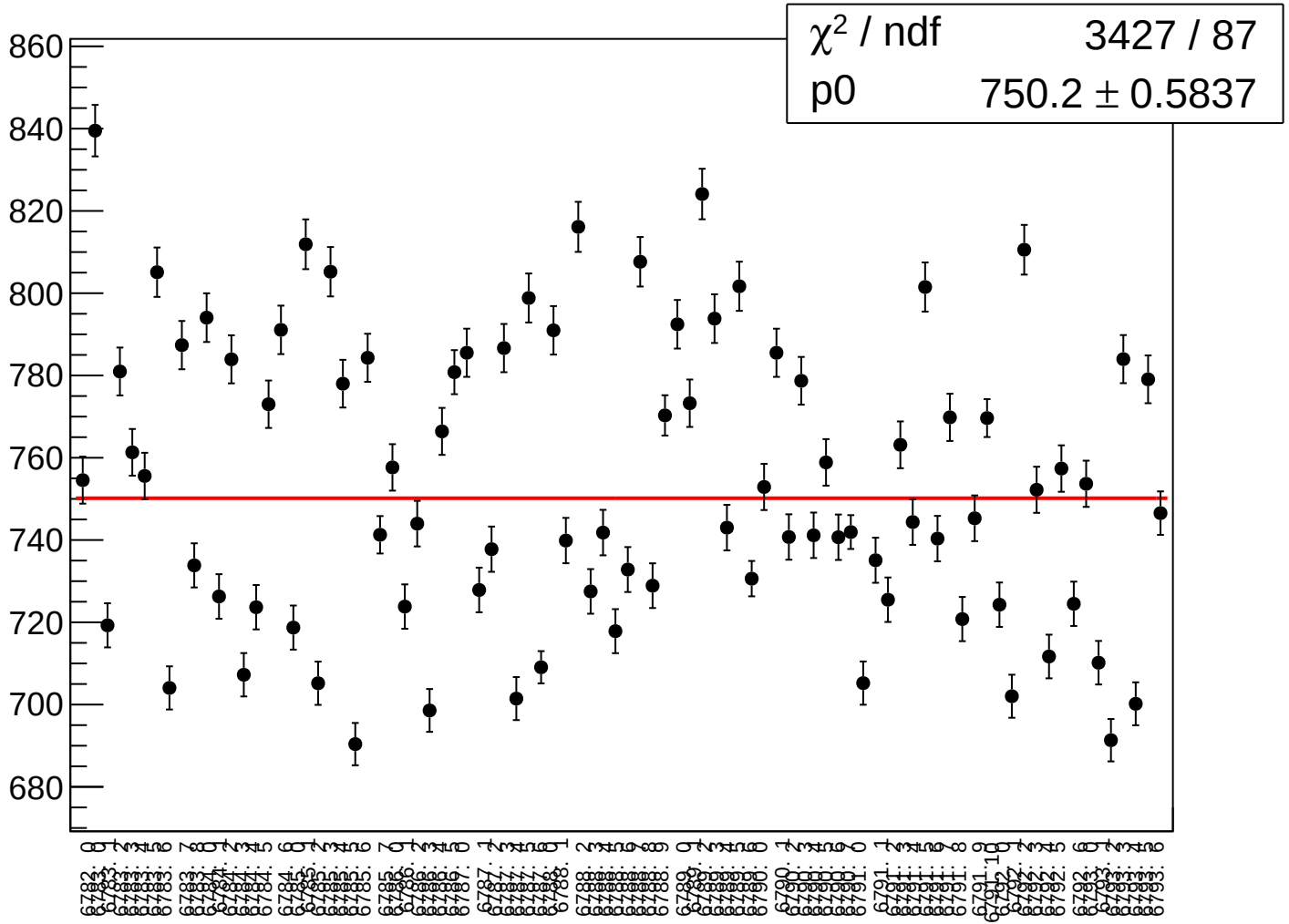

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 99.88 / 87
p0 −797.8 ± 1944
pull
Entries 88
Mean 390.5
Std Dev 0

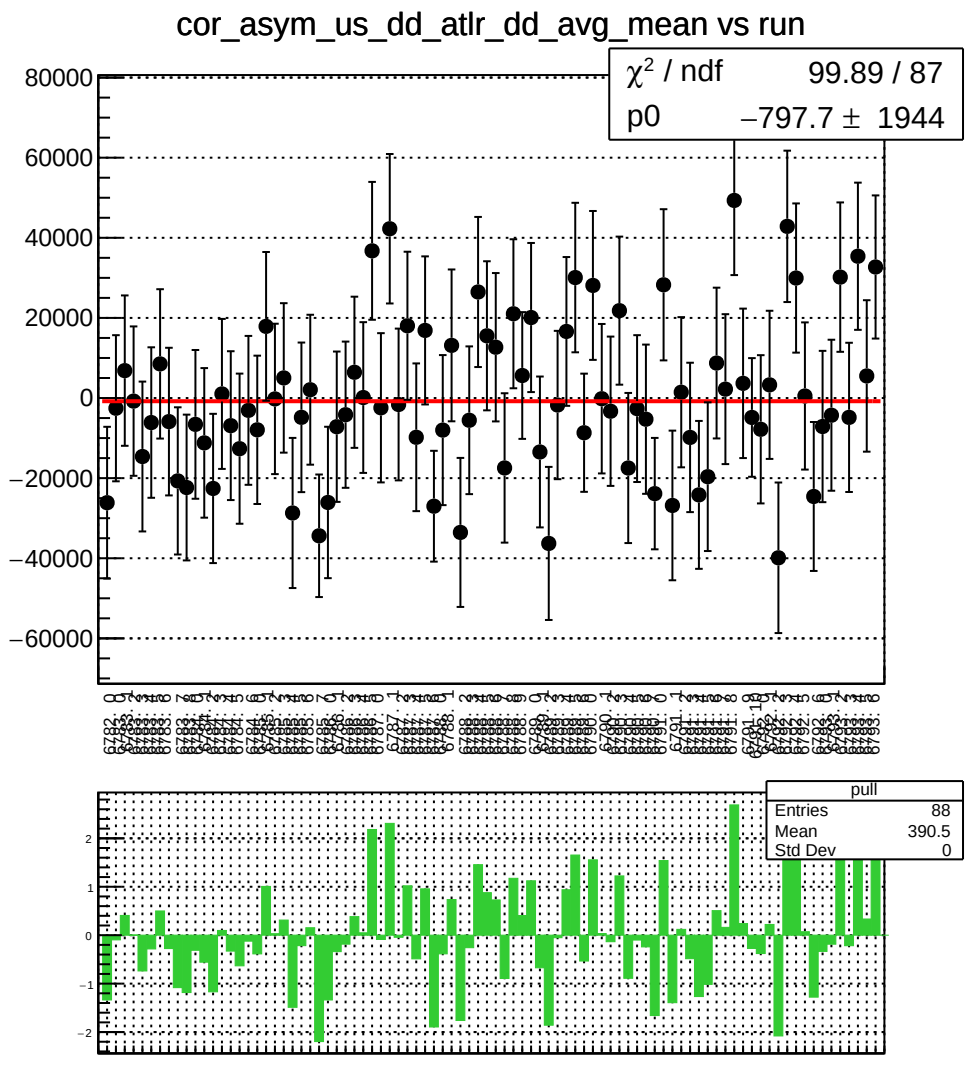

pull1D
Entries 88
Mean 0.01752
Std Dev 1.065

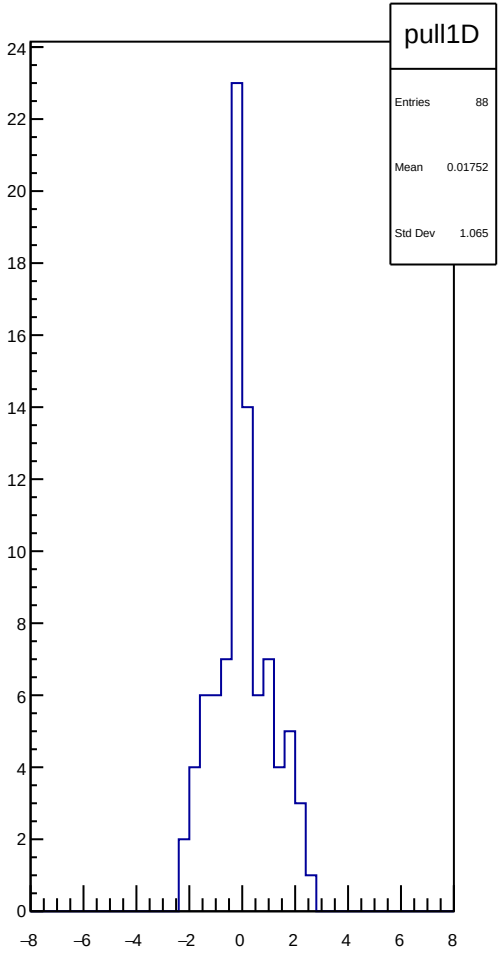

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 114.3 / 87
p0 1769 ± 1.375
1820
1800
1780
1760
1740
1720

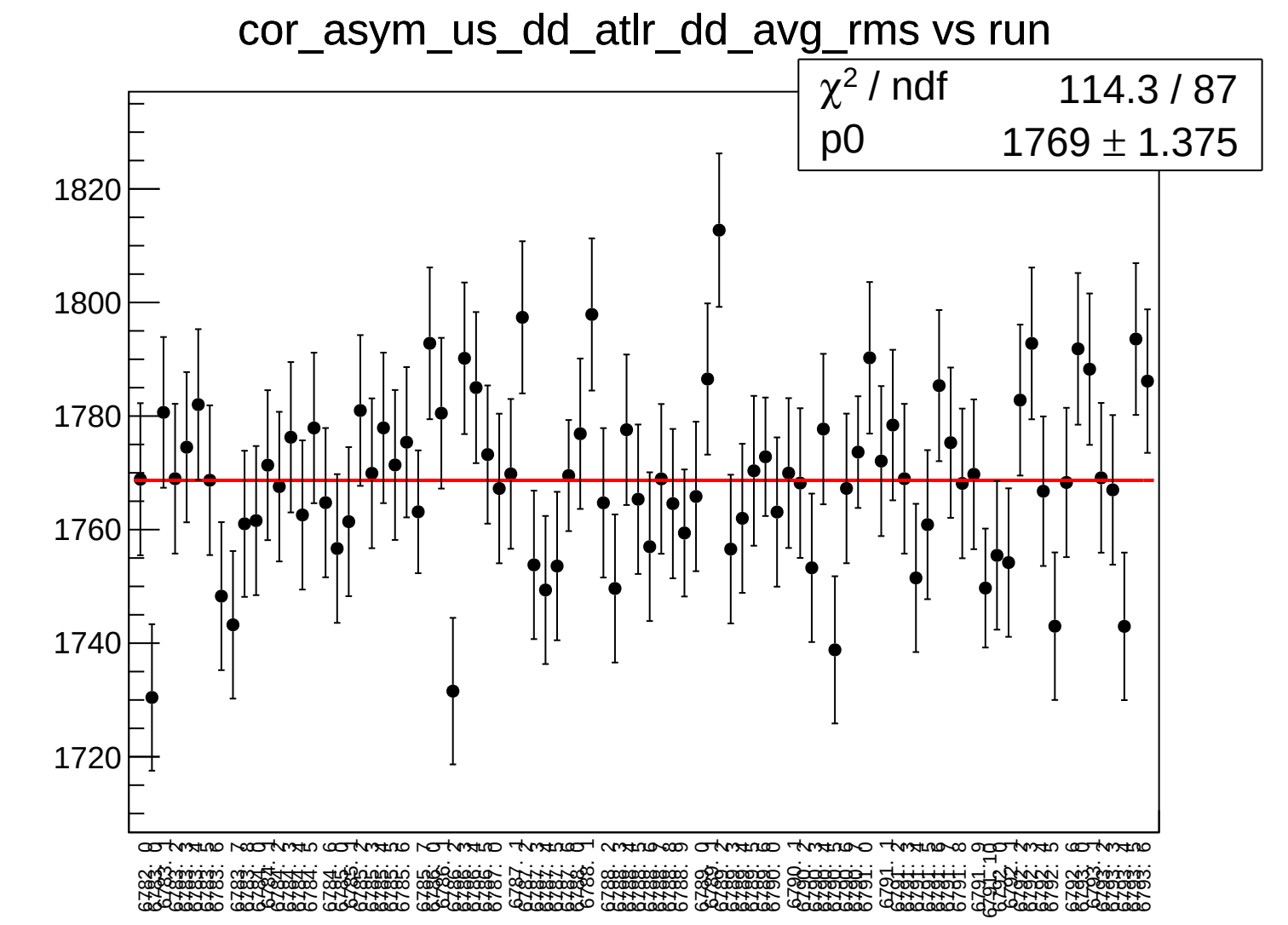

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 97.01 / 87
p0 −2800 ± 825.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −218
Std Dev 0
2
1
0
−1
−2

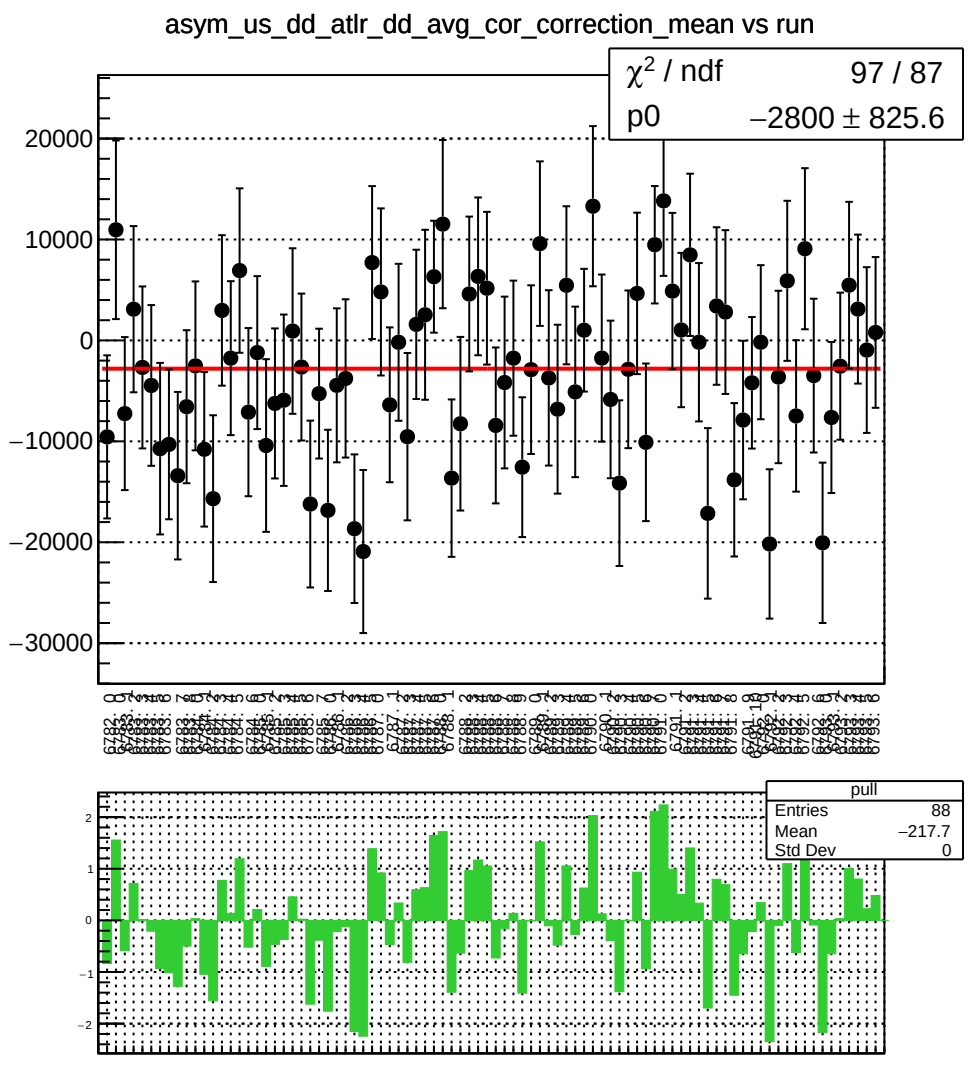

pull1D
Entries 88
Mean −0.01561
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

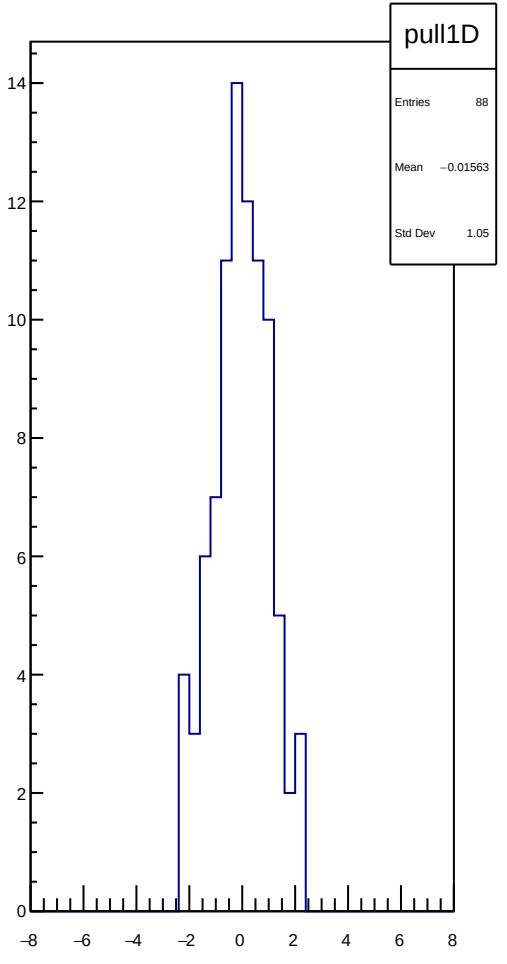

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3427 / 87
p0 750.2 ± 0.5837
860
840
820
800
780
760
740
720
700
680

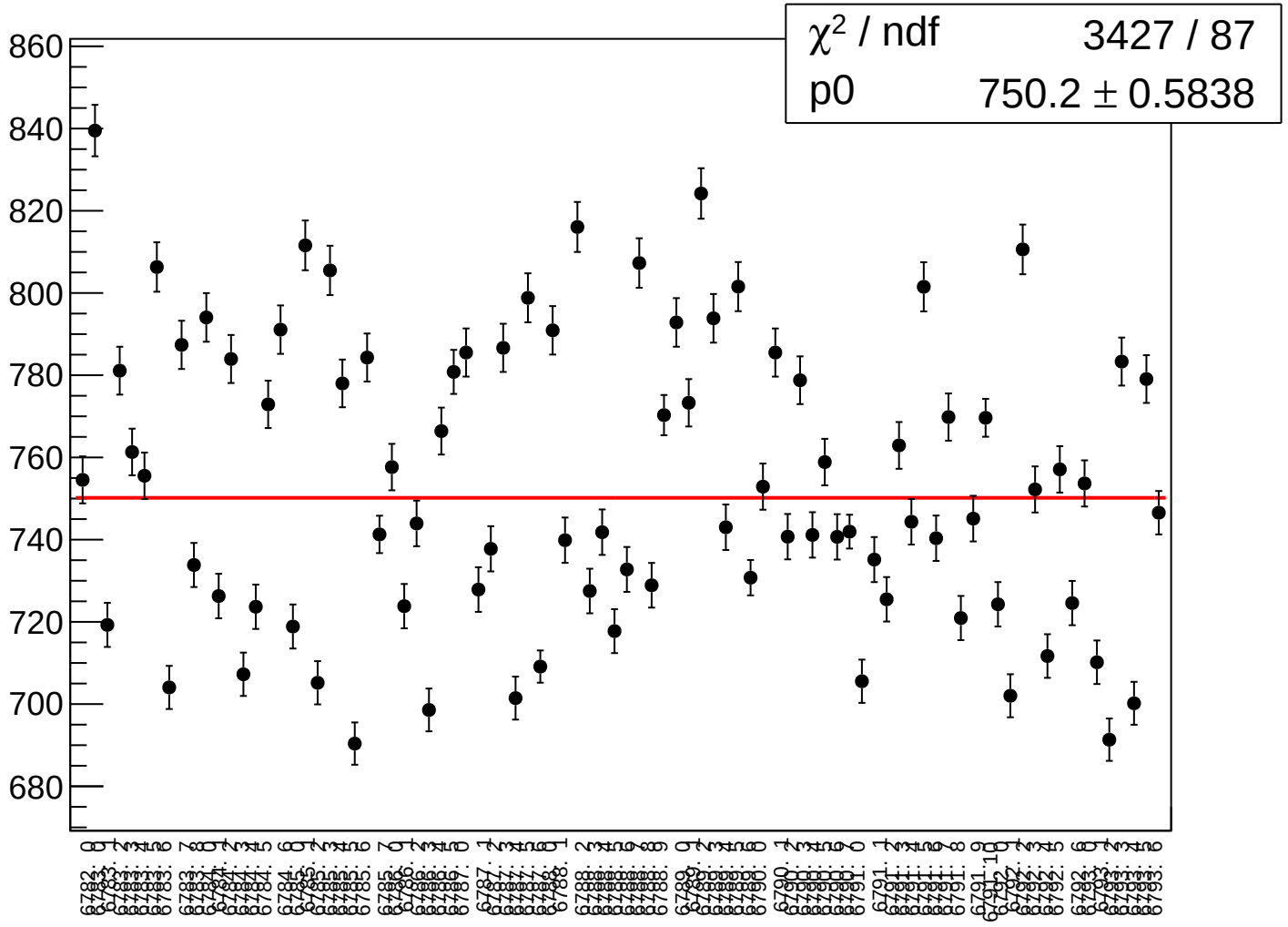

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 99.89 / 87
p0 −797.7 ± 1944
pull
Entries 88
Mean 390.5
Std Dev 0

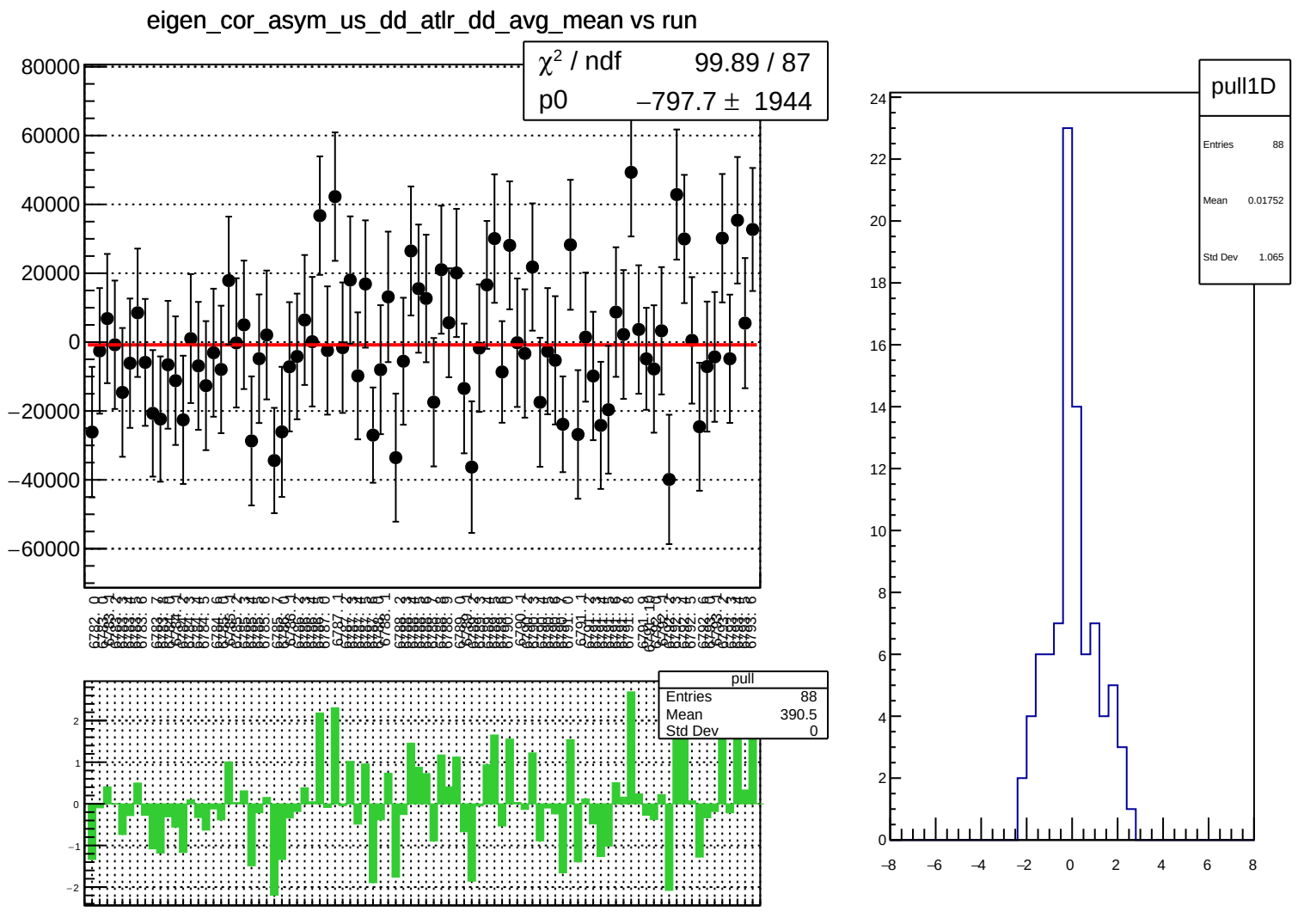

pull1D
Entries 88
Mean 0.01752
Std Dev 1.065

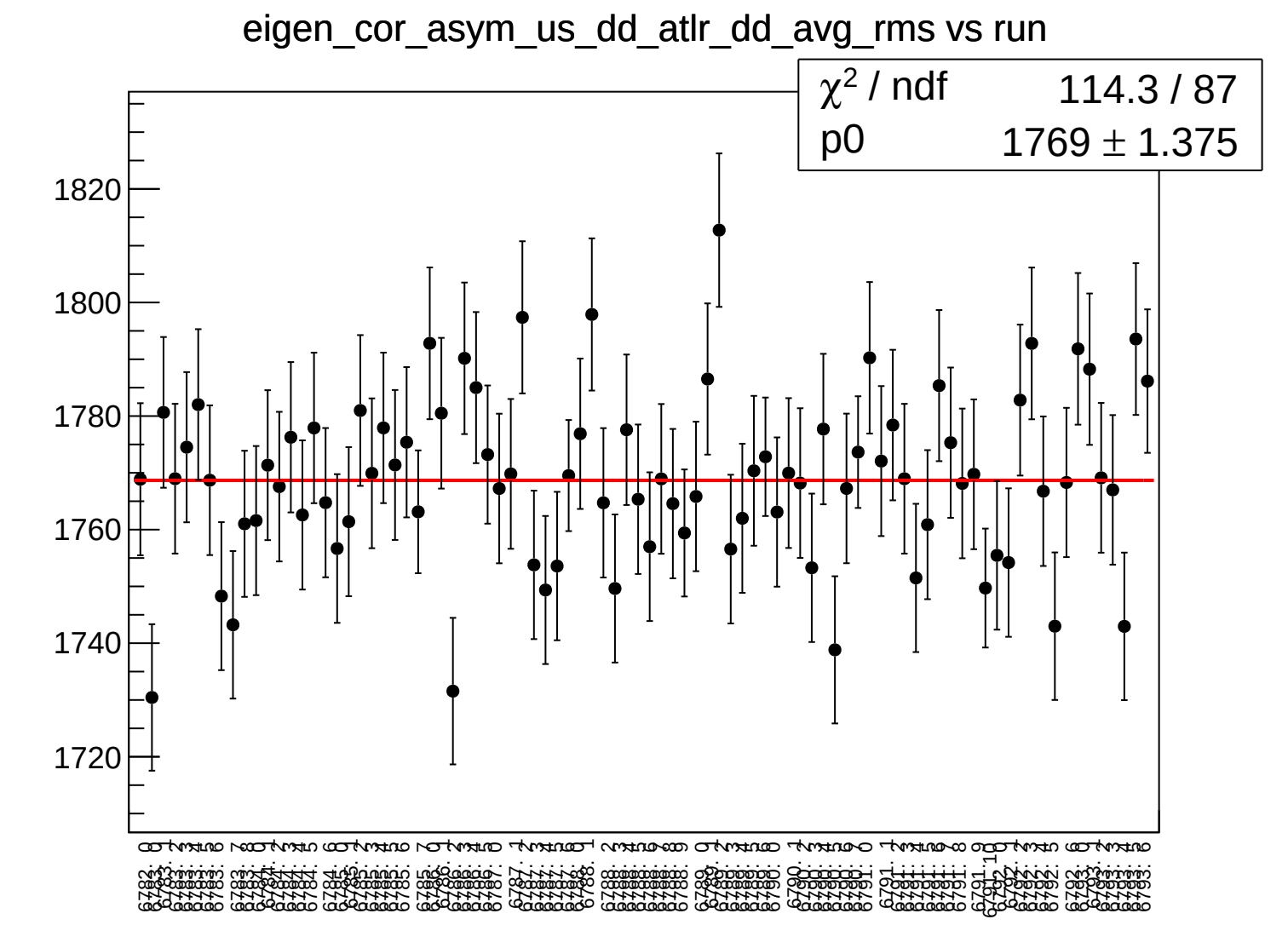

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 114.3 / 87
p0 1769 ± 1.375
1820
1800
1780
1760
1740
1720

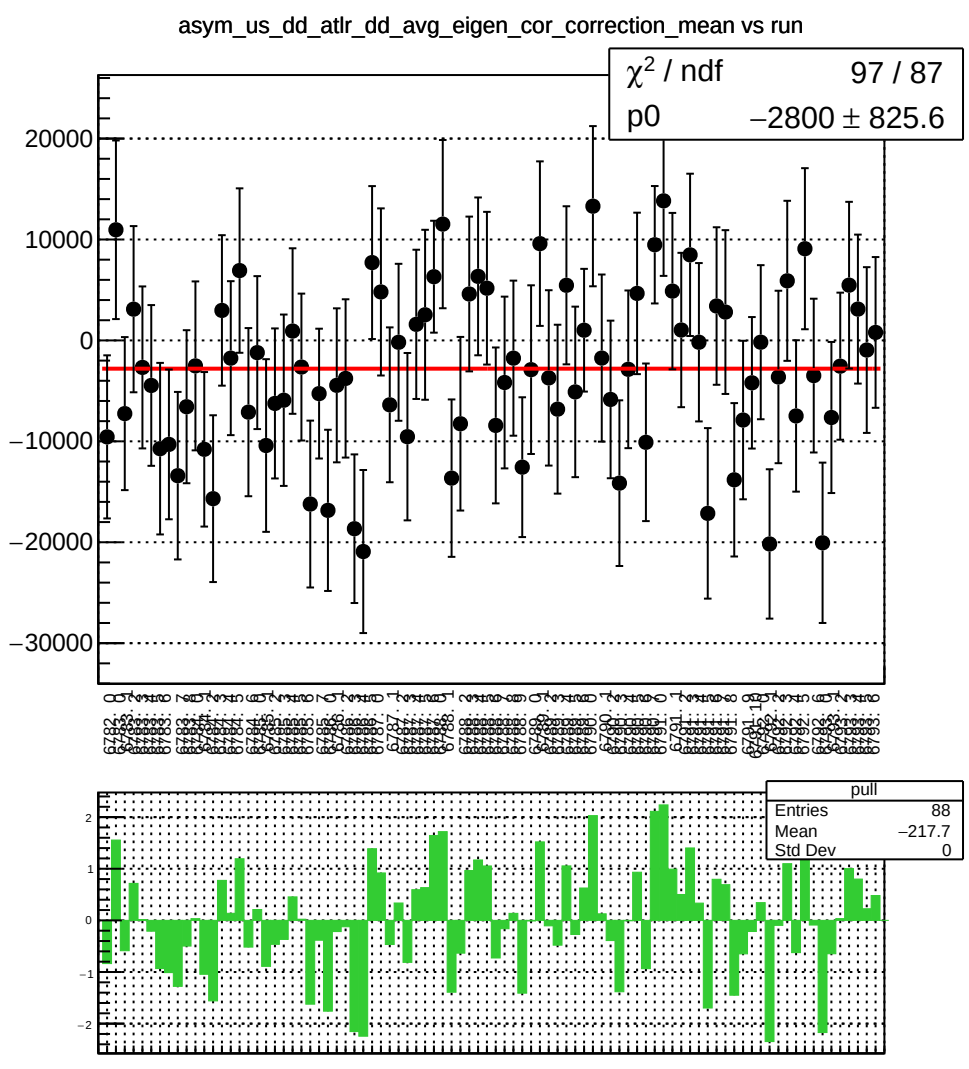

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 97 / 87
p0 −2800 ± 825.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −217.7
Std Dev 0
2
1
0
−1
−2

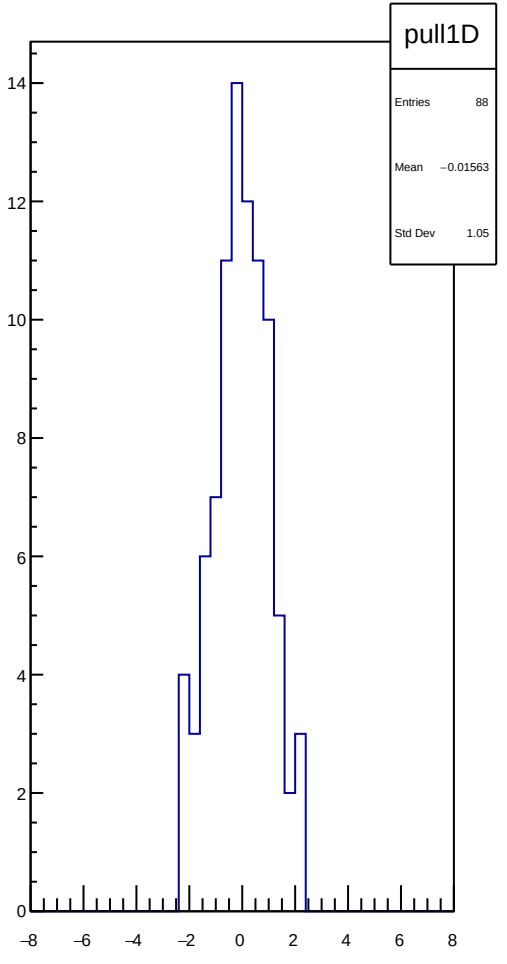

pull1D
Entries 88
Mean −0.01563
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

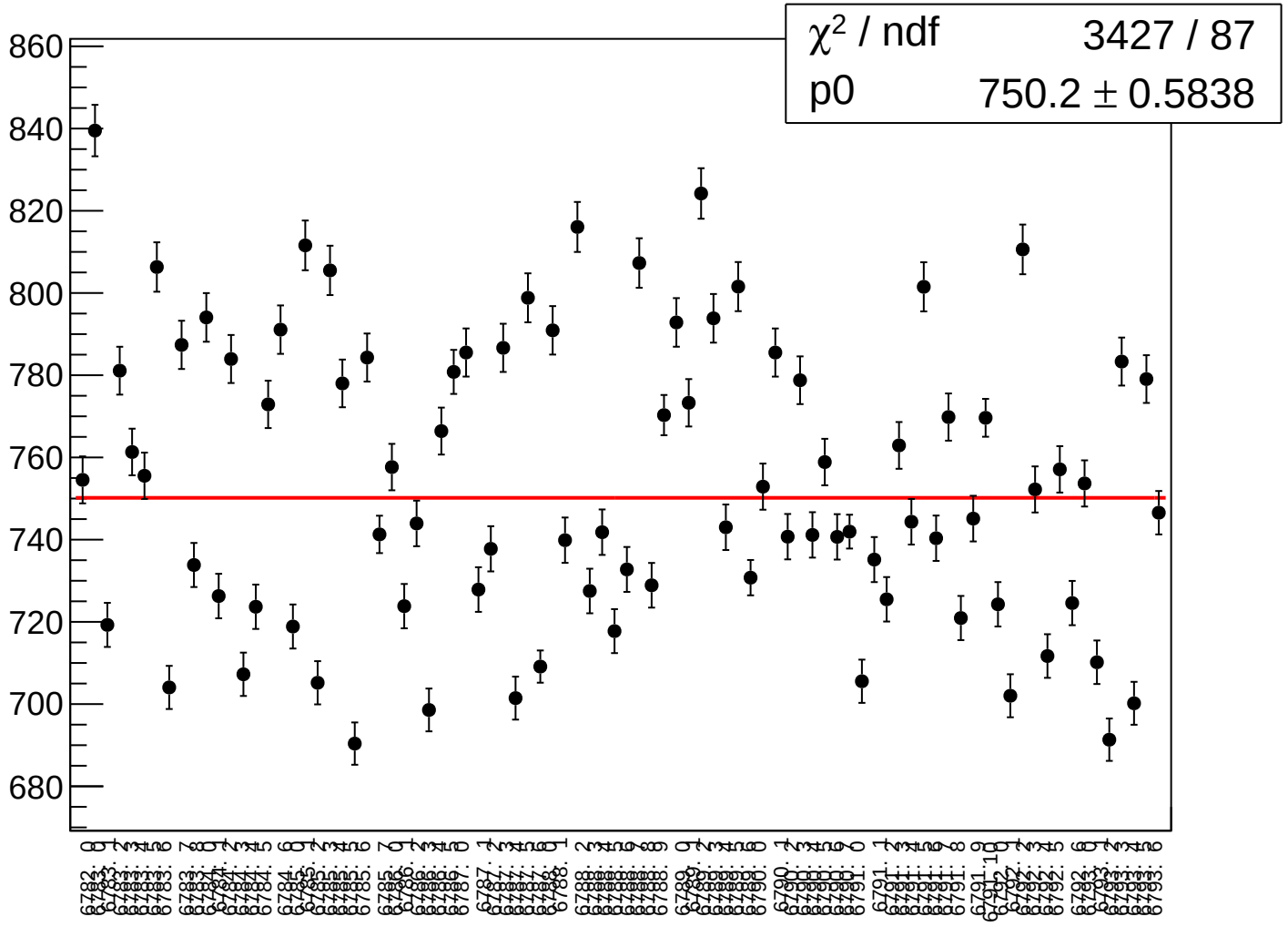

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3427 / 87
p0 750.2 ± 0.5838
860
840
820
800
780
760
740
720
700
680

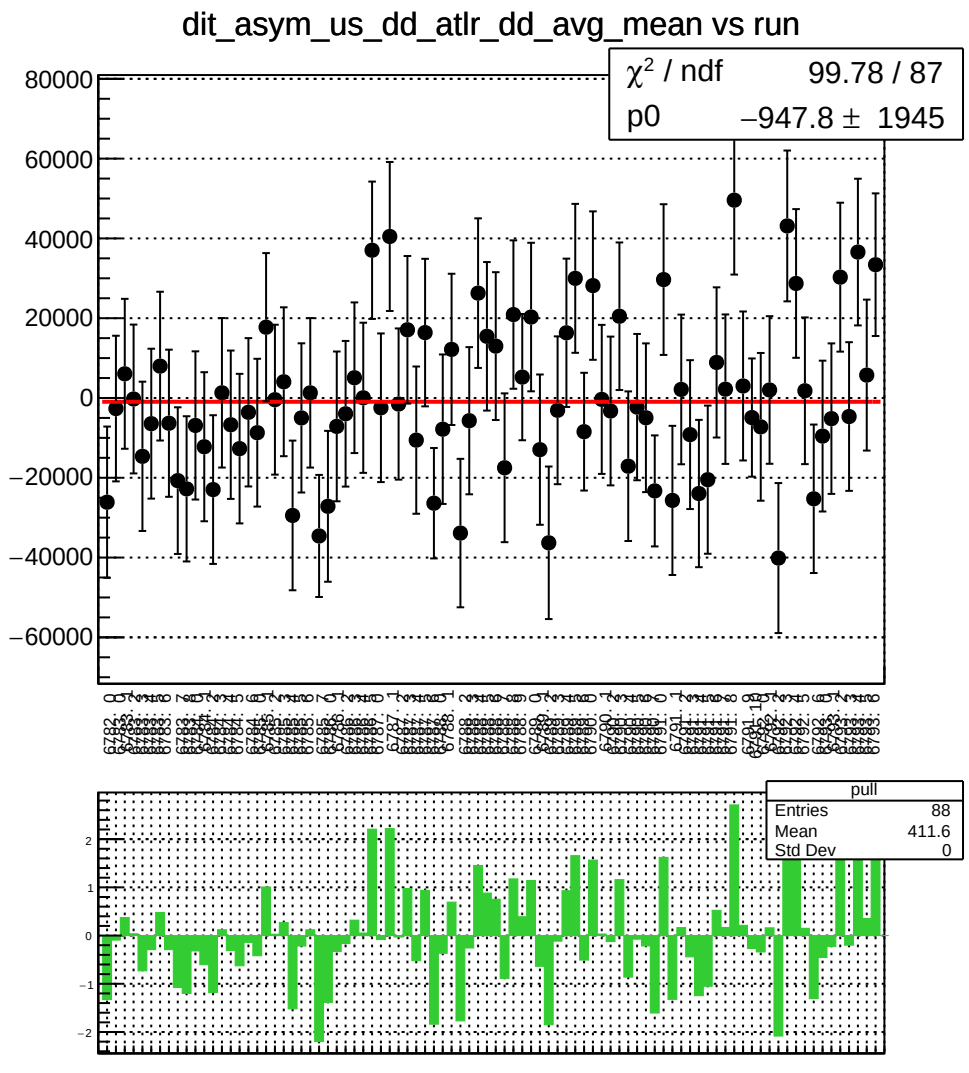

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 99.89 / 87
p0 −797.7 ± 1944
pull
Entries 88
Mean 390.5
Std Dev 0
pull1D
Entries 88
Mean 0.01752
Std Dev 1.065

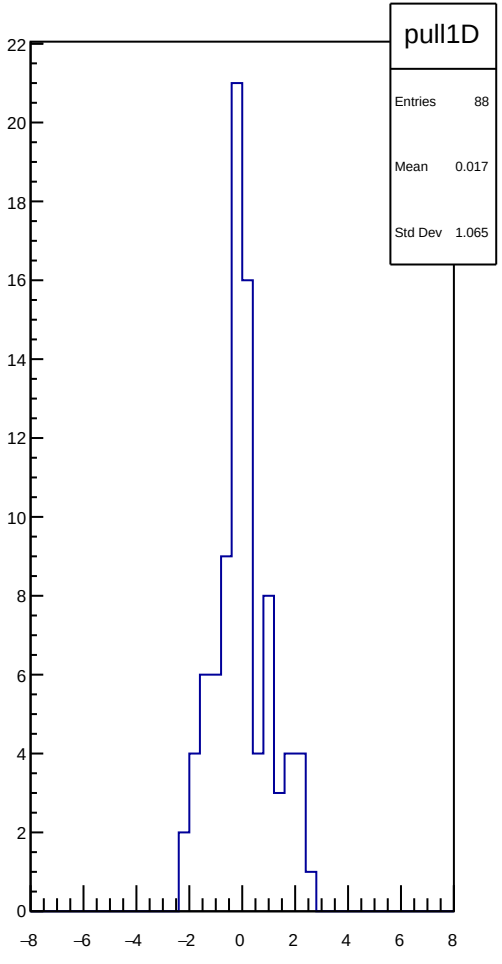

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 114.3 / 87
p0 1769 ± 1.375
1820
1800
1780
1760
1740
1720

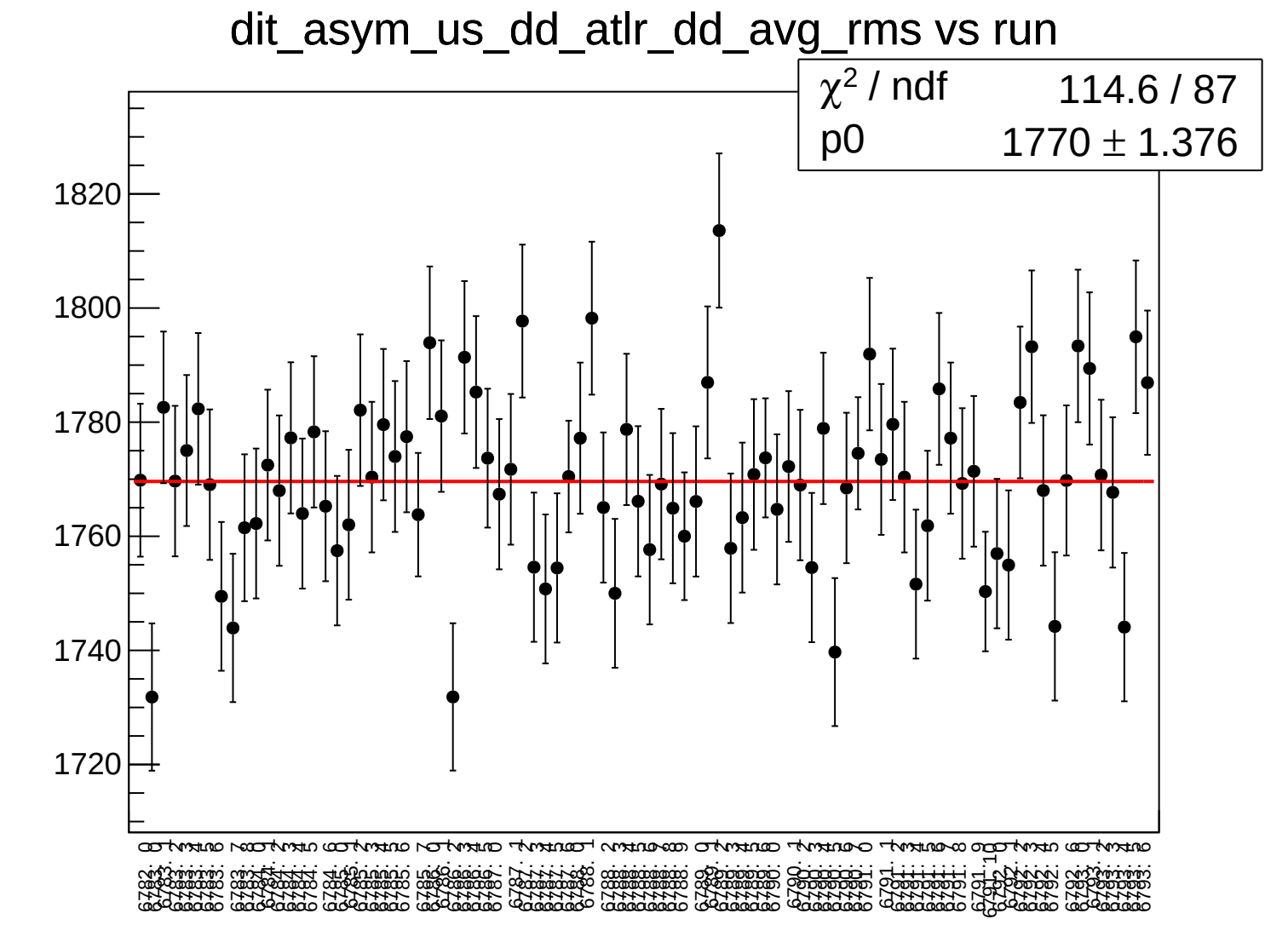

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 97 / 87
p0 −2800 ± 825.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −217.7
Std Dev 0
2
1
0
−1
−2

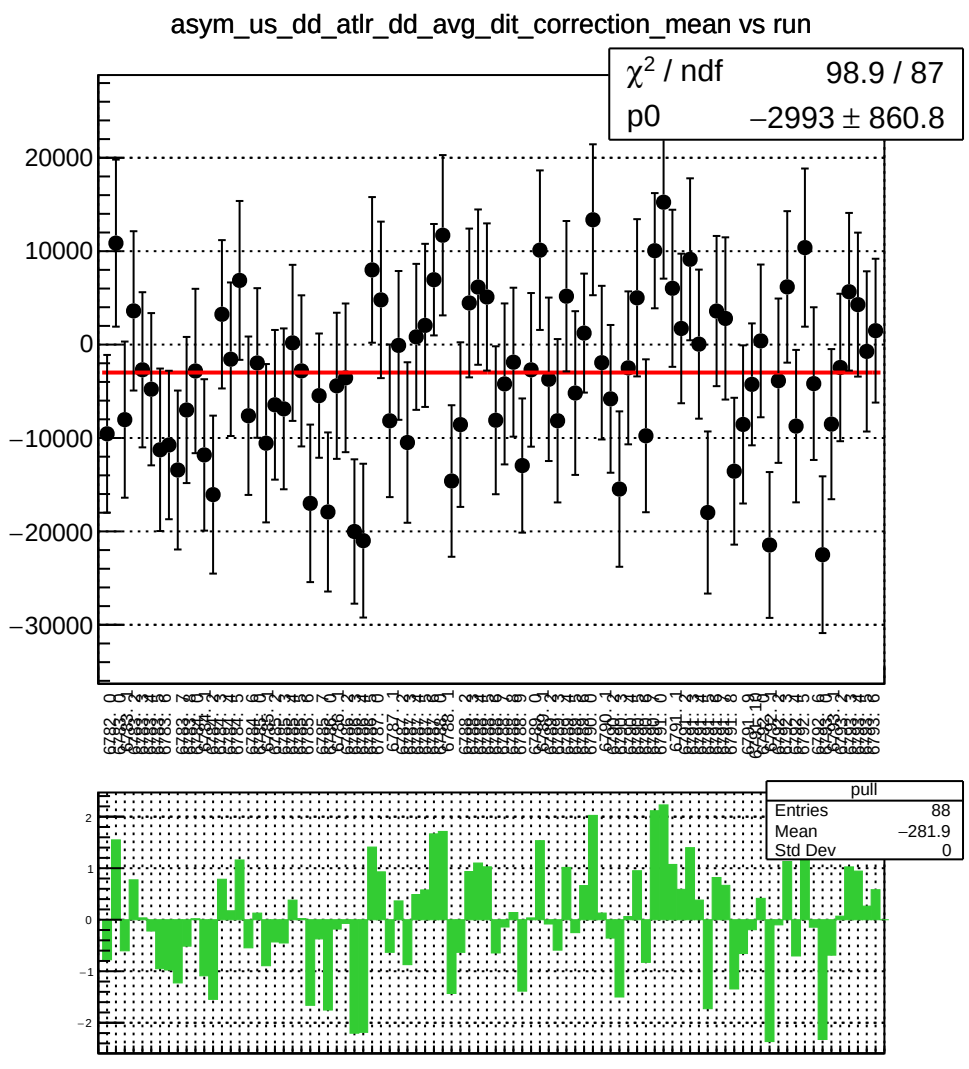

pull1D
Entries 88
Mean −0.01563
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

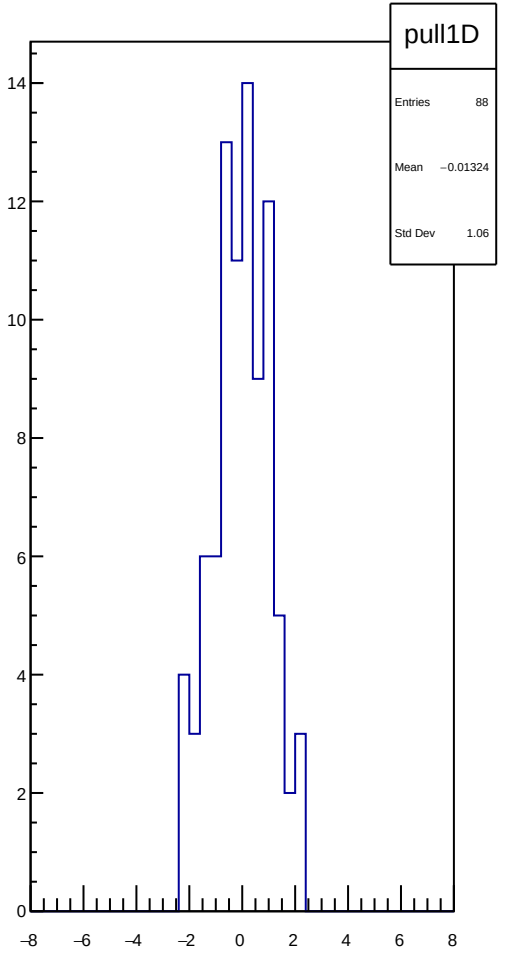

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3427 / 87
p0 750.2 ± 0.5838
860
840
820
800
780
760
740
720
700
680

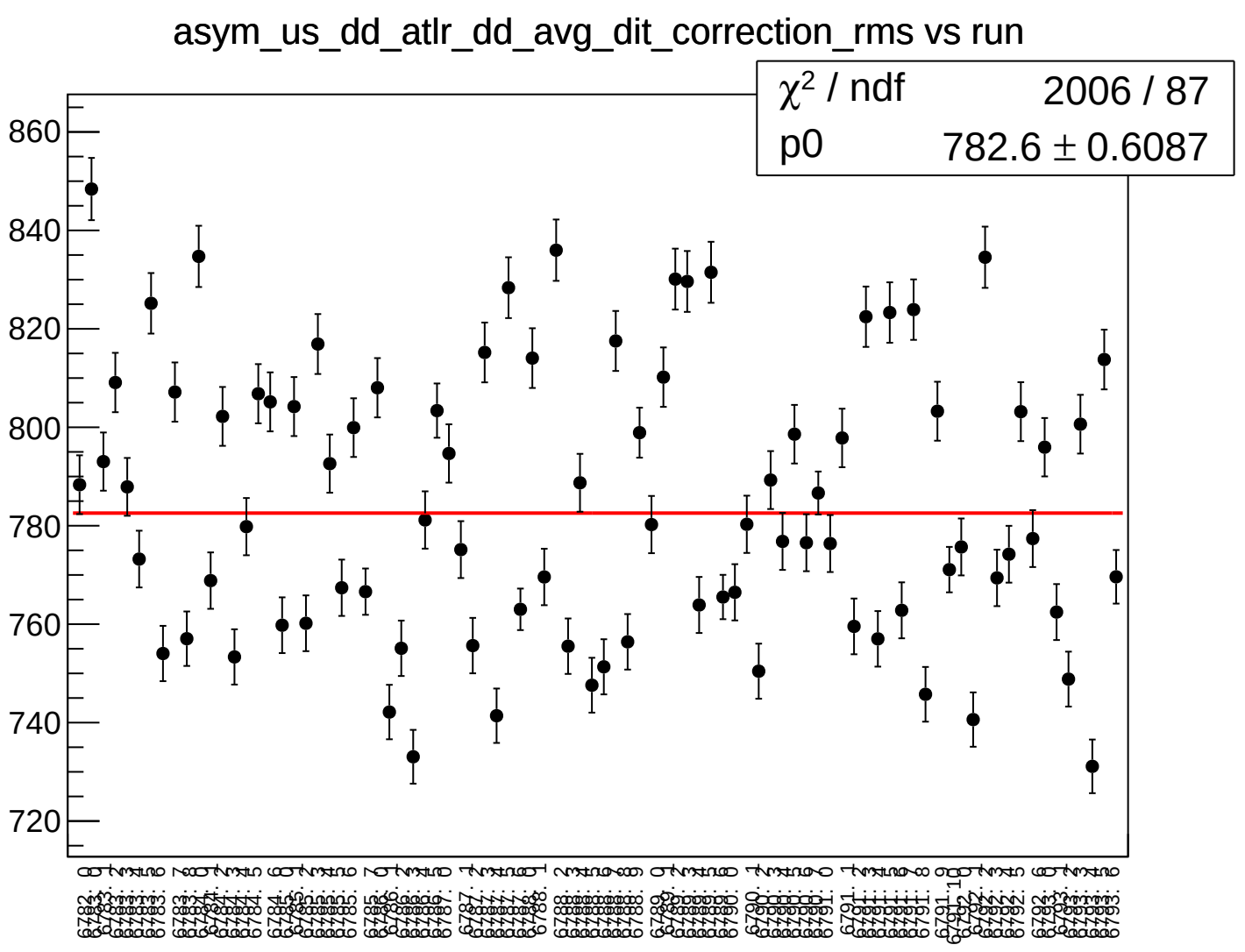

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 99.78 / 87
p0 −947.8 ± 1945
pull
Entries 88
Mean 411.6
Std Dev 0

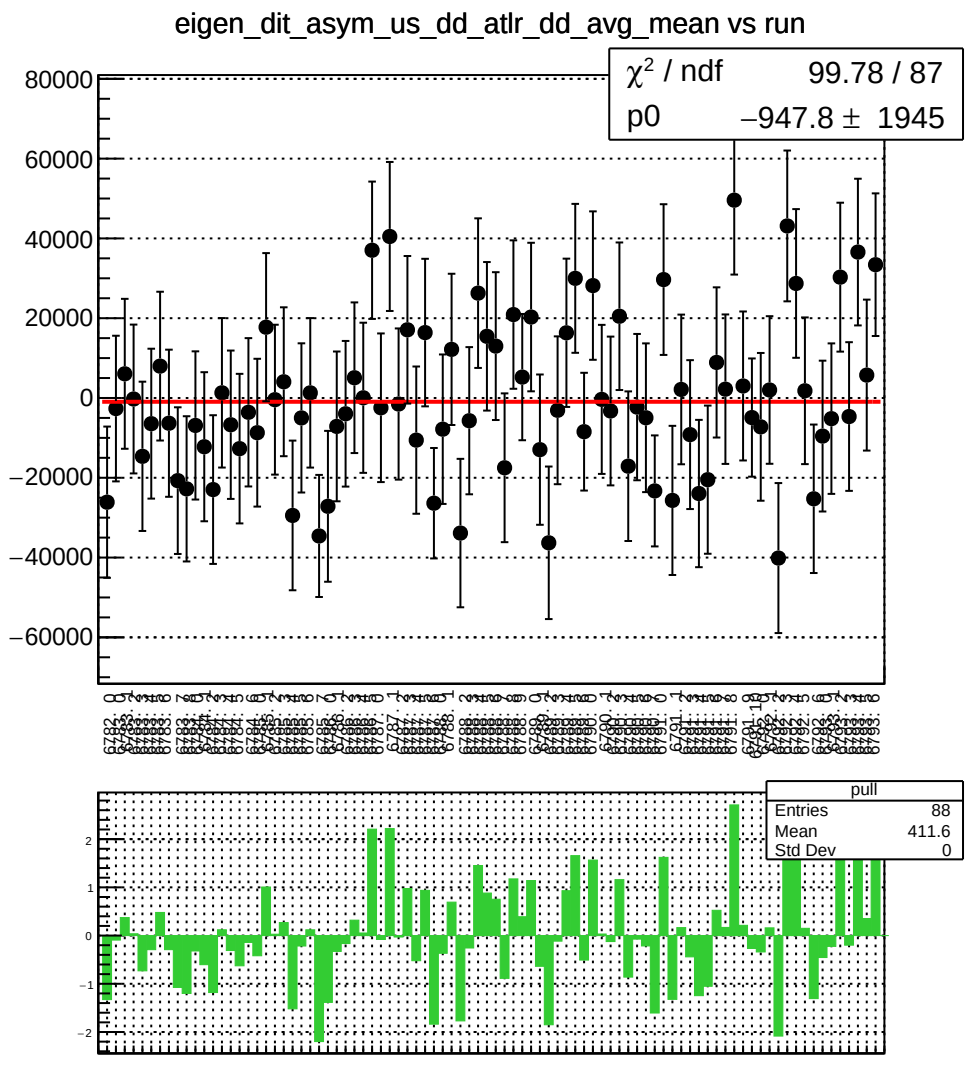

pull1D
Entries 88
Mean 0.017
Std Dev 1.065

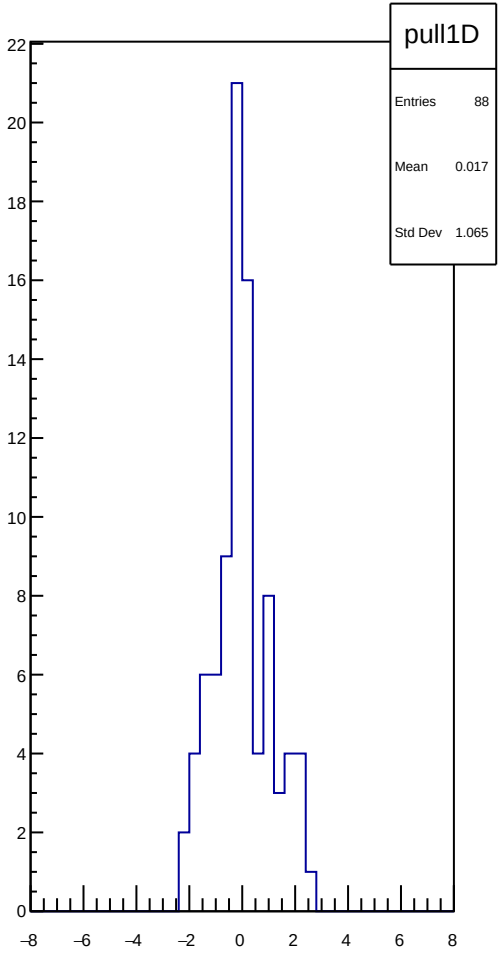

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 114.6 / 87
p0 1770 ± 1.376
1820
1800
1780
1760
1740
1720

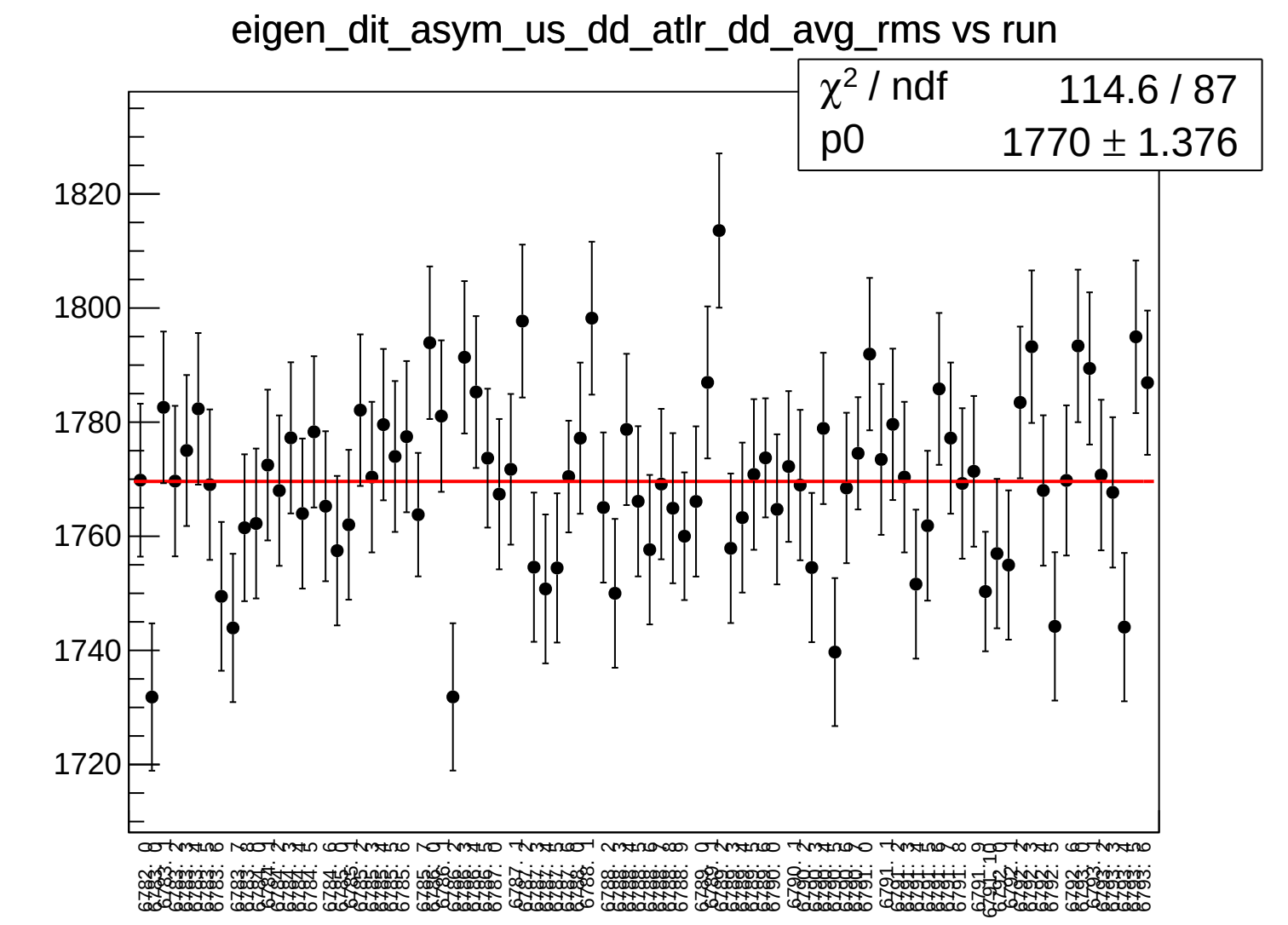

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 98.9 / 87
p0 −2993 ± 860.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −281.9
Std Dev 0
2
1
0
−1
−2

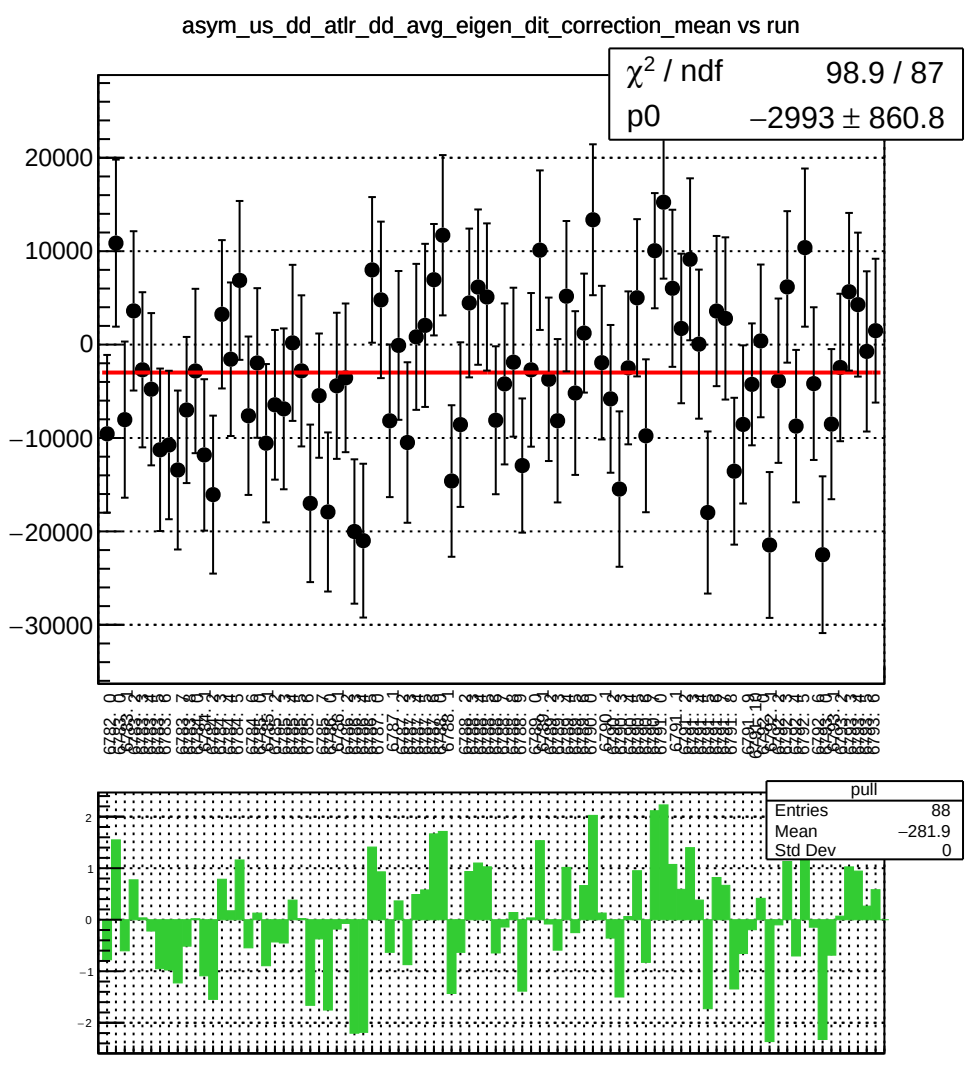

pull1D
Entries 88
Mean −0.01324
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

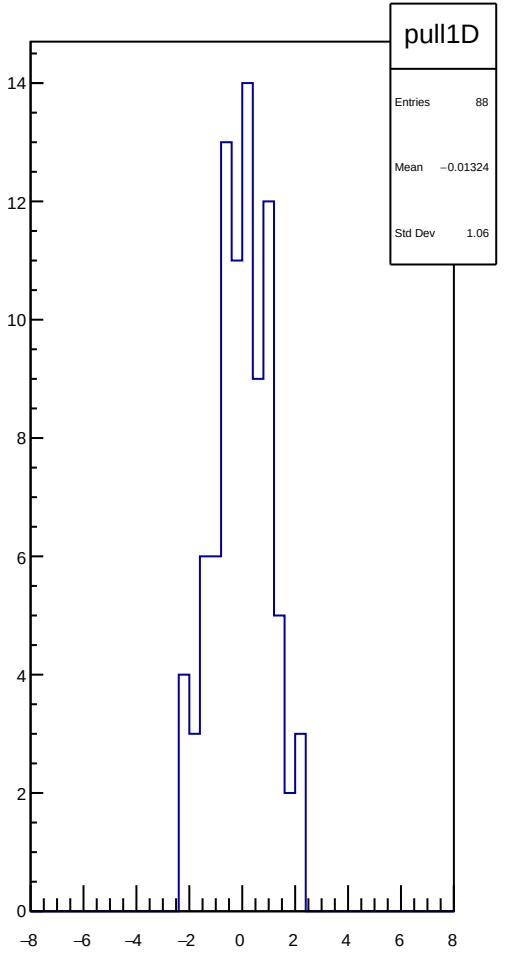

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2006 / 87
p0 782.6 ± 0.6087
860
840
820
800
780
760
740
720

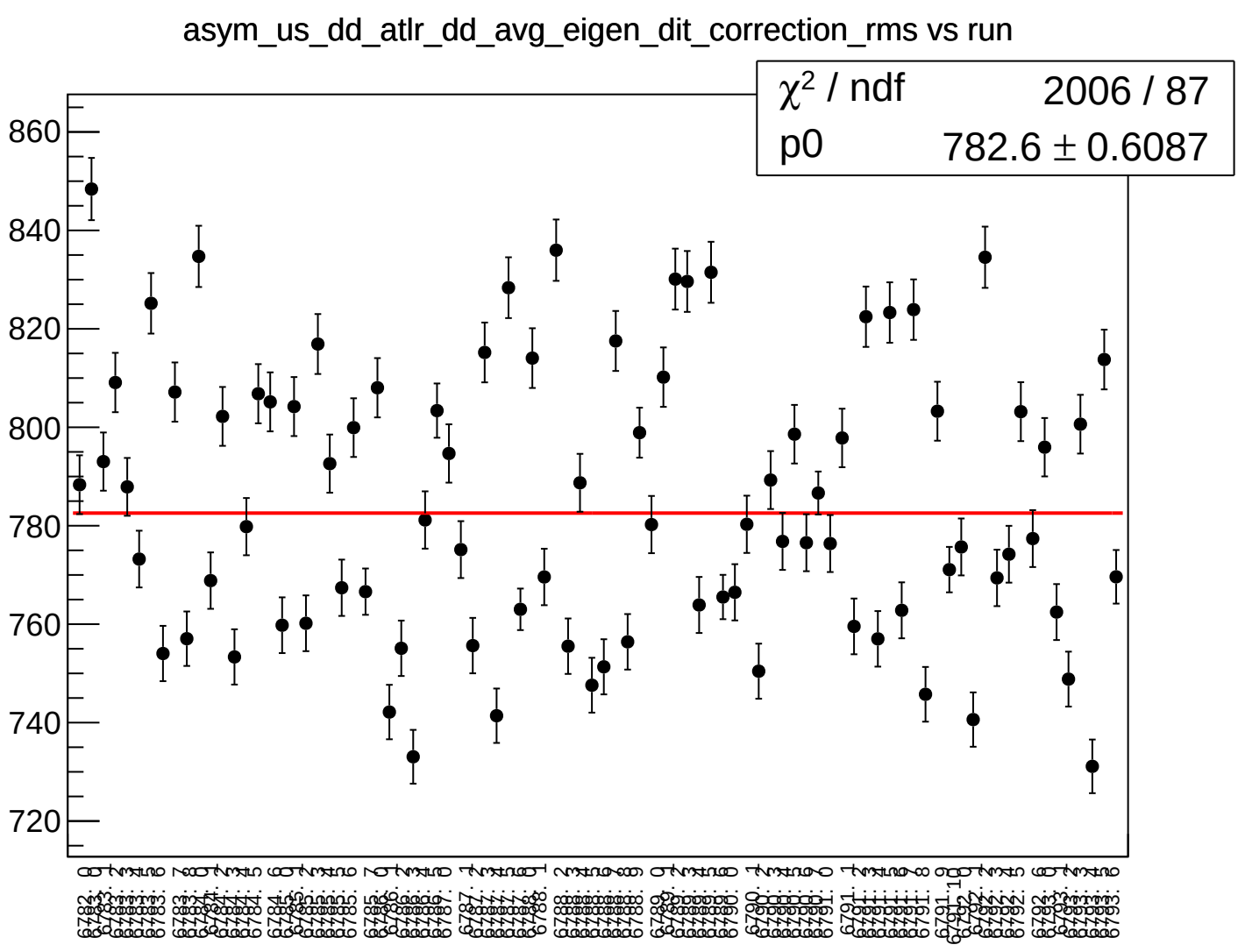

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 99.78 / 87
p0 −947.8 ± 1945
pull
Entries 88
Mean 411.6
Std Dev 0

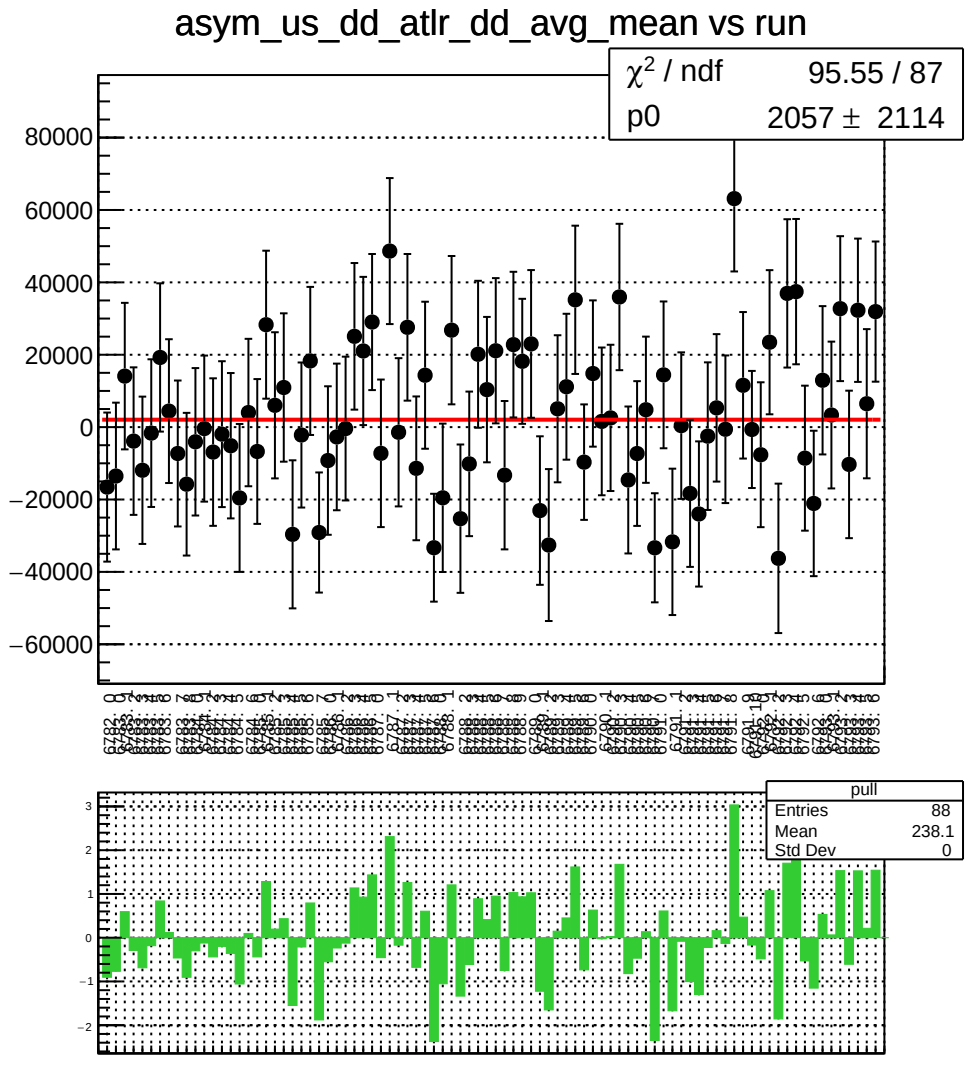

pull1D
Entries 88
Mean 0.017
Std Dev 1.065

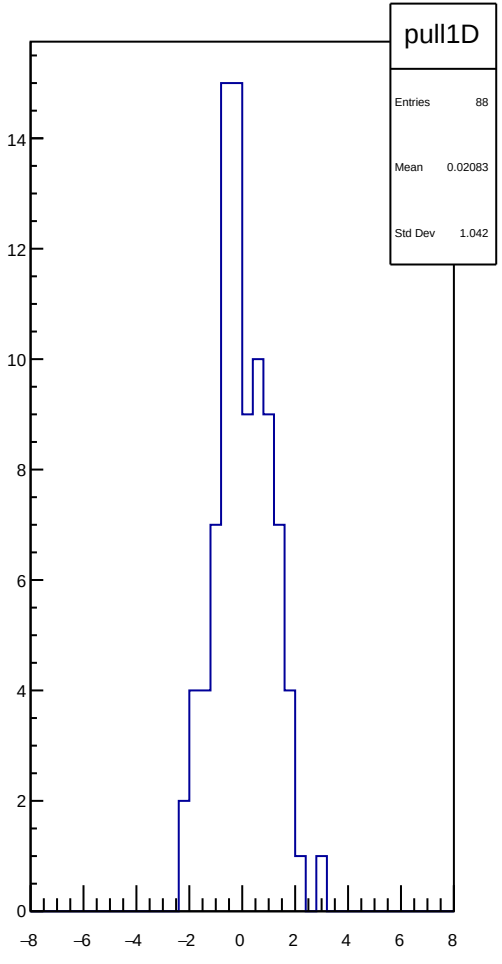

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 114.6 / 87
p0 1770 ± 1.376
1820
1800
1780
1760
1740
1720

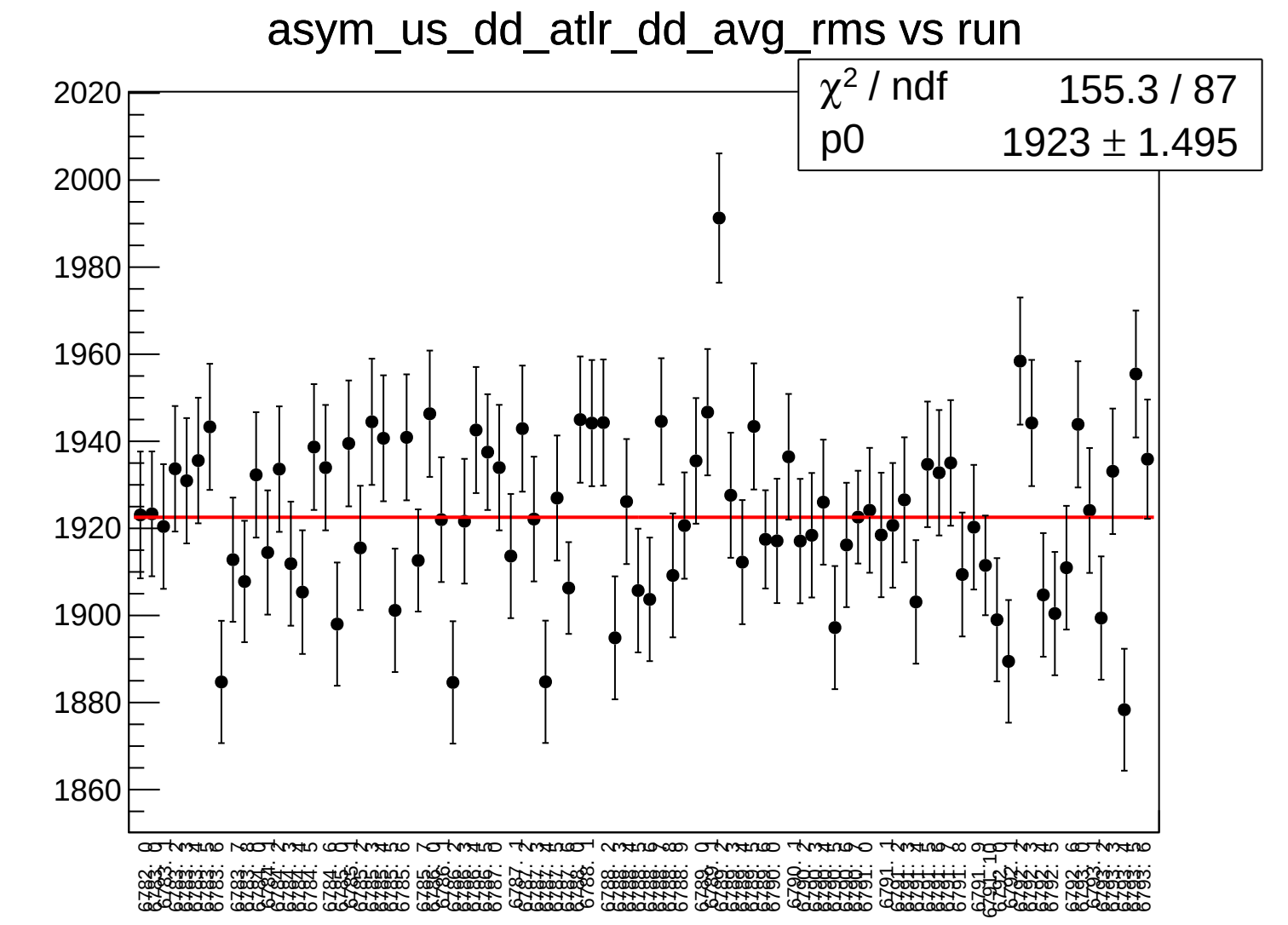

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.9 / 87
p0 −2993 ± 860.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −281.9
Std Dev 0
2
1
0
−1
−2

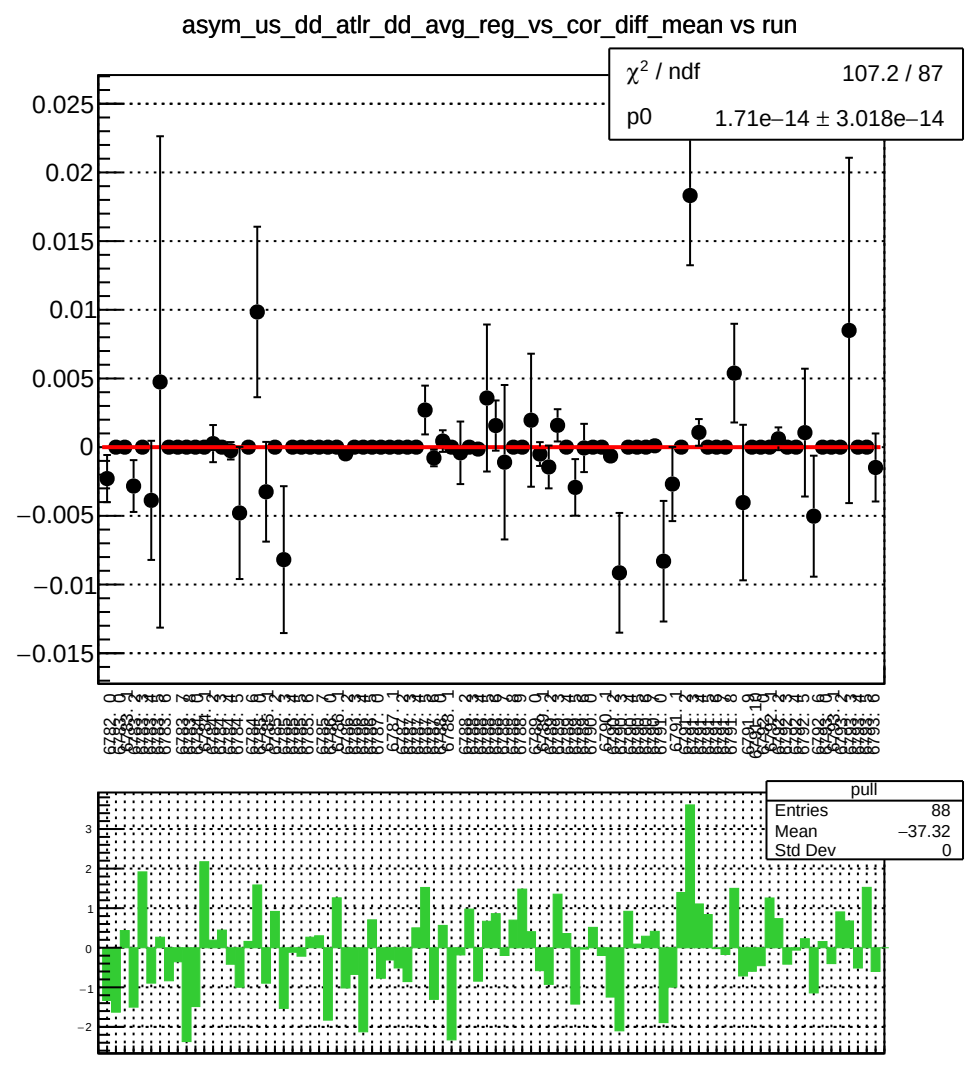

pull1D
Entries 88
Mean −0.01324
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

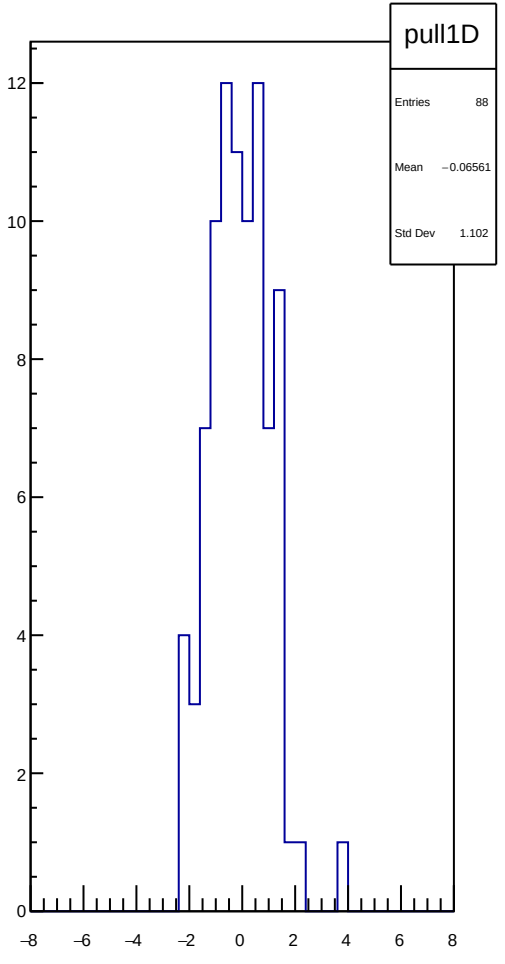

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2006 / 87
p0 782.6 ± 0.6087
860
840
820
800
780
760
740
720

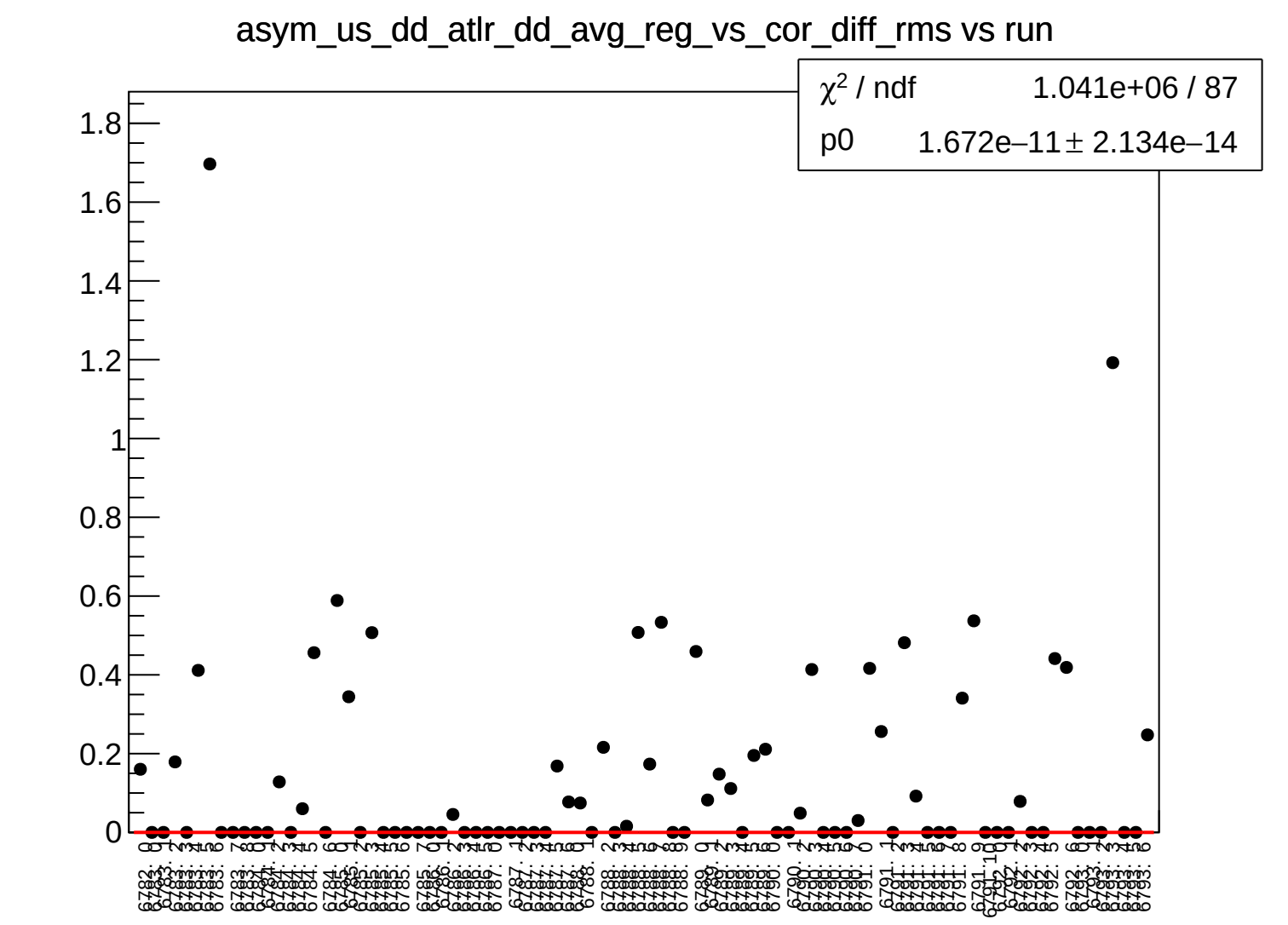

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 95.55 / 87
p0 2057 ± 2114
pull
Entries 88
Mean 238.1
Std Dev 0

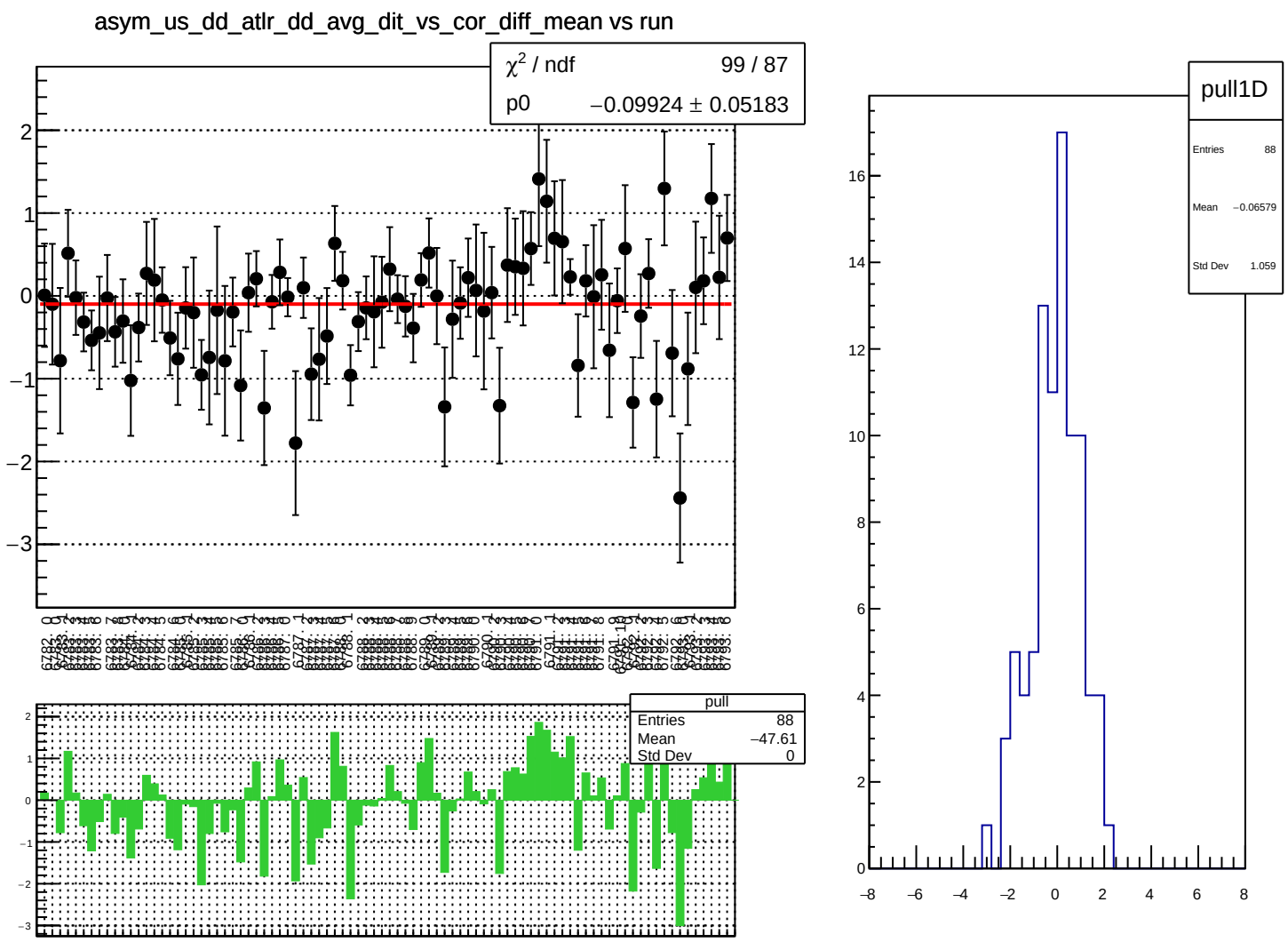

pull1D
Entries 88
Mean 0.02083
Std Dev 1.042

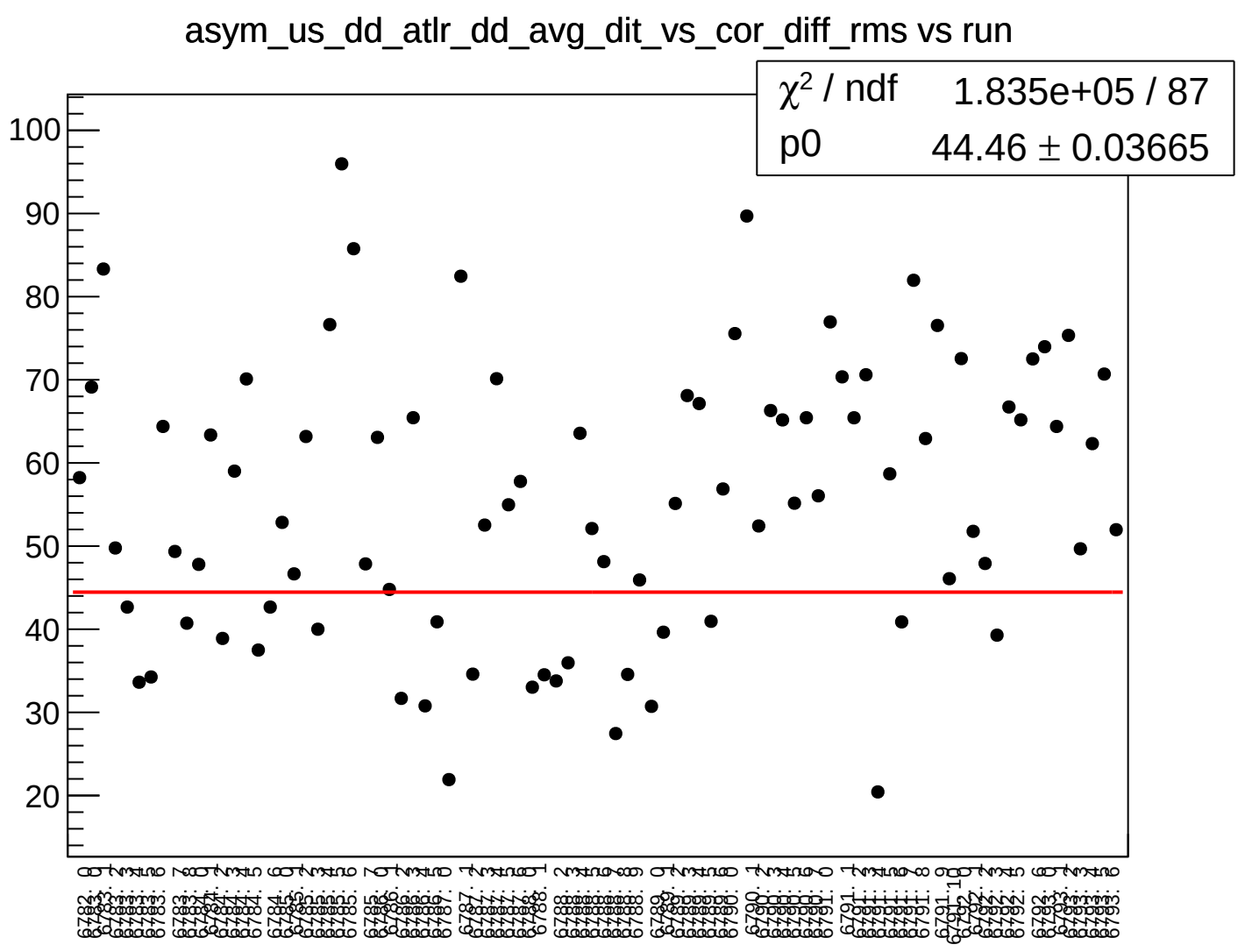

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 155.3 / 87
p0 1923 ± 1.495
2020
2000
1980
1960
1940
1920
1900
1880
1860

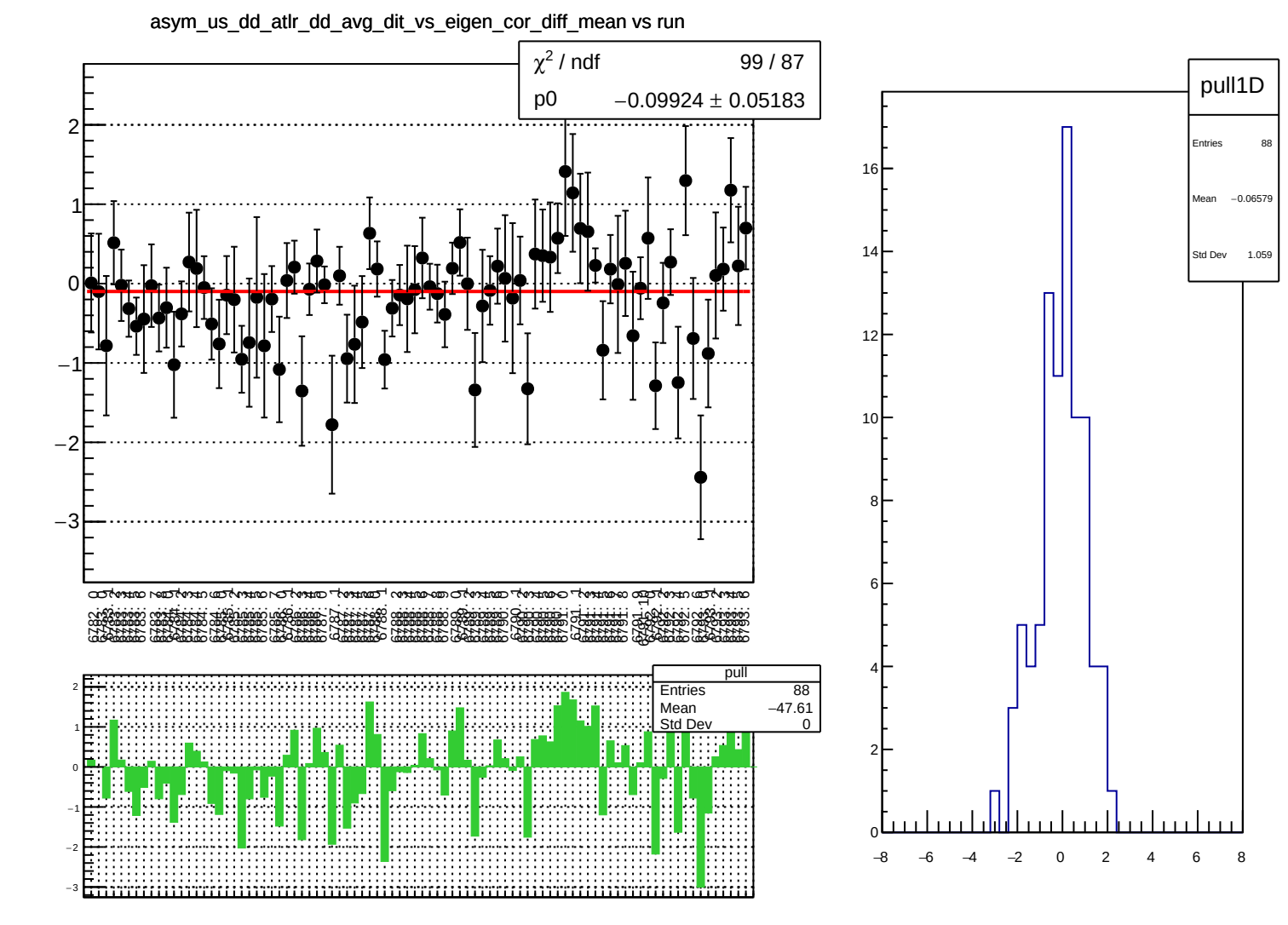

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 87
p0 1.71e−14 ± 3.018e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −37.32
Std Dev 0
3
2
1
0
−1
−2

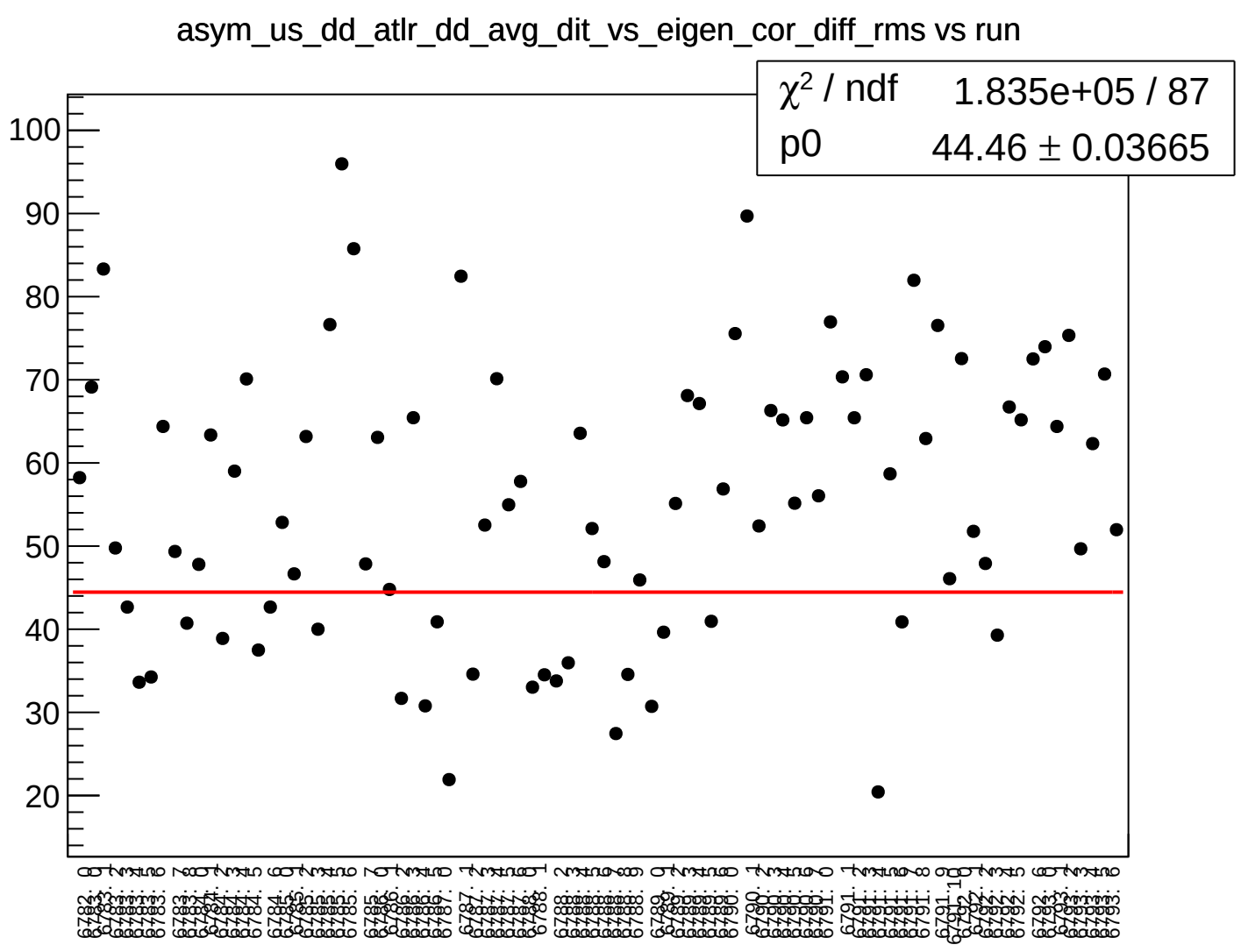

pull1D
Entries 88
Mean −0.06561
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

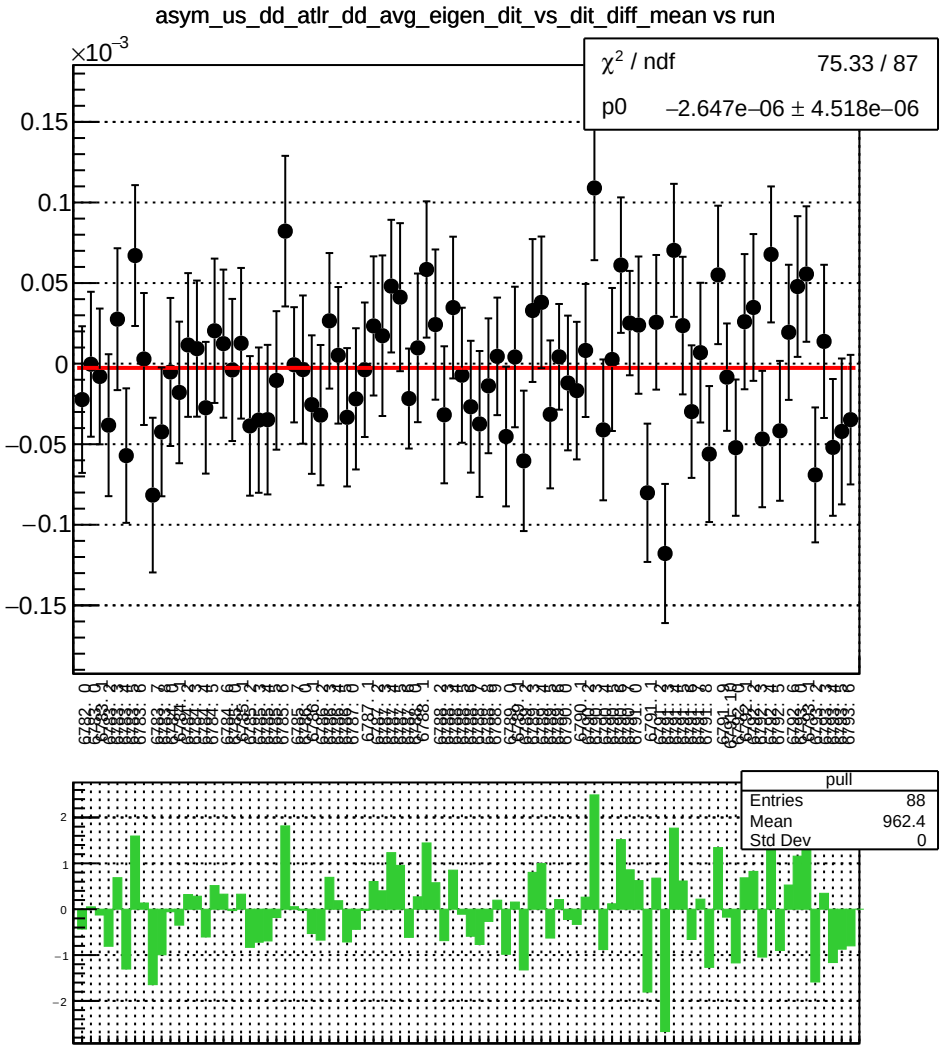

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 87
p0 1.672e−11 ± 2.134e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

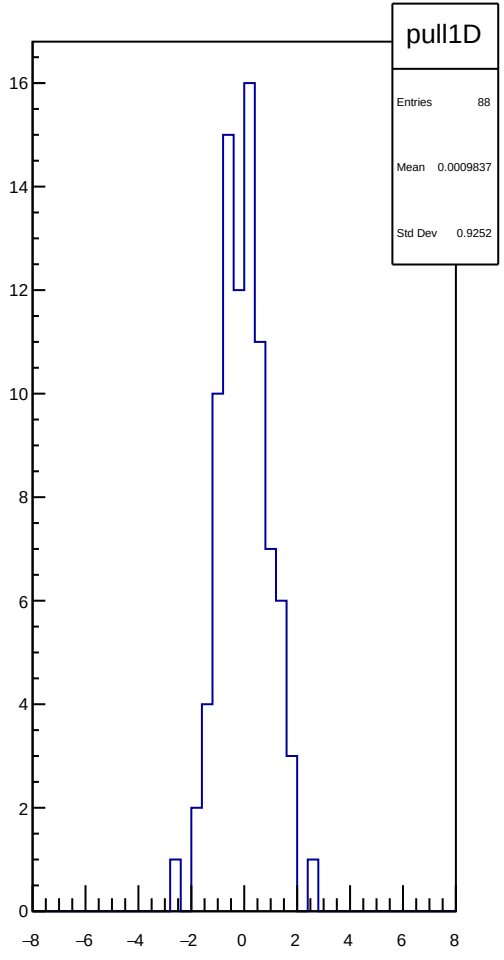

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99 / 87
p0 −0.09924 ± 0.05183
pull
Entries 88
Mean −47.61
Std Dev 0
pull1D
Entries 88
Mean −0.06579
Std Dev 1.059

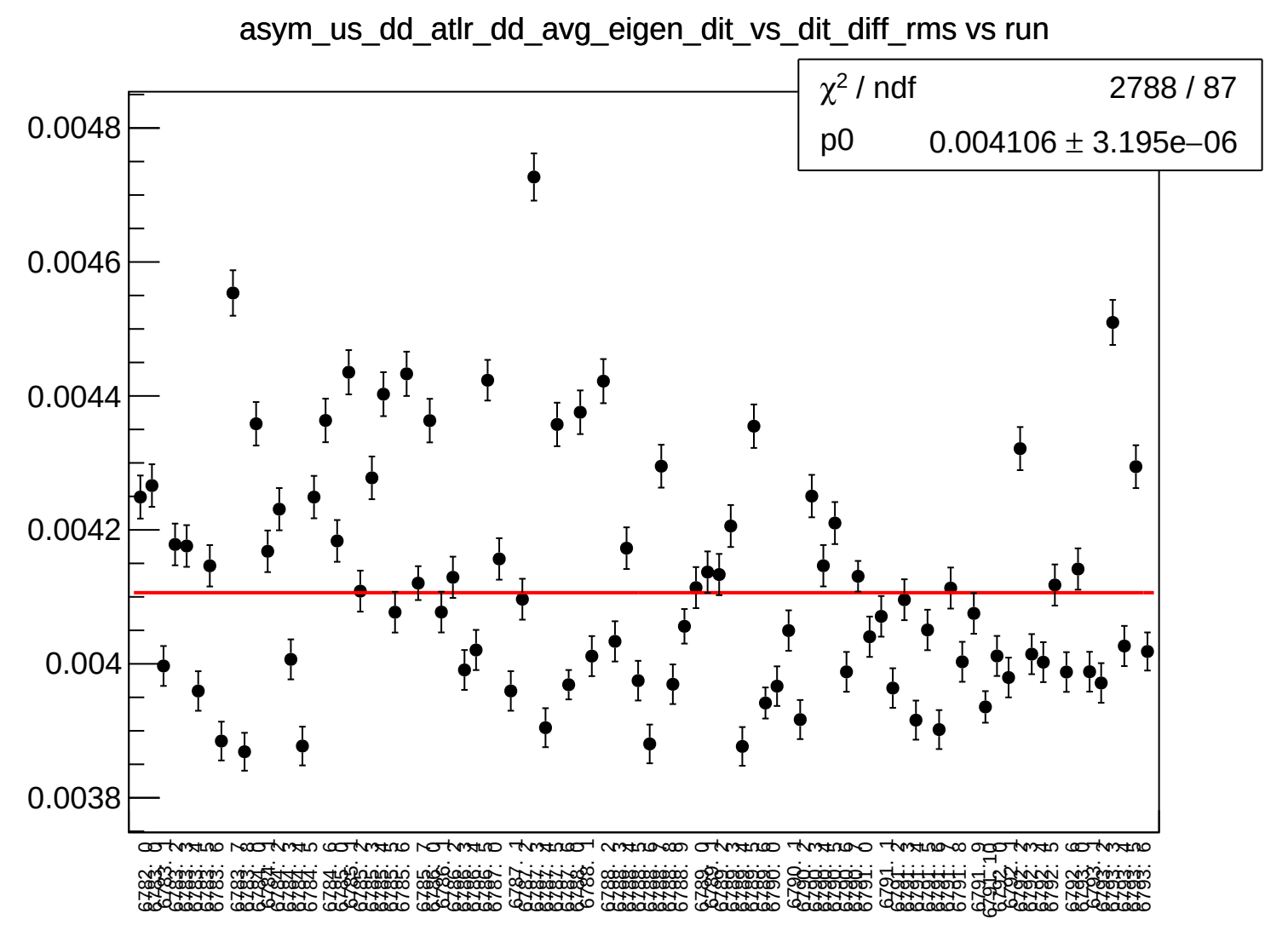

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 87
p0 44.46 ± 0.03665
100
90
80
70
60
50
40
30
20

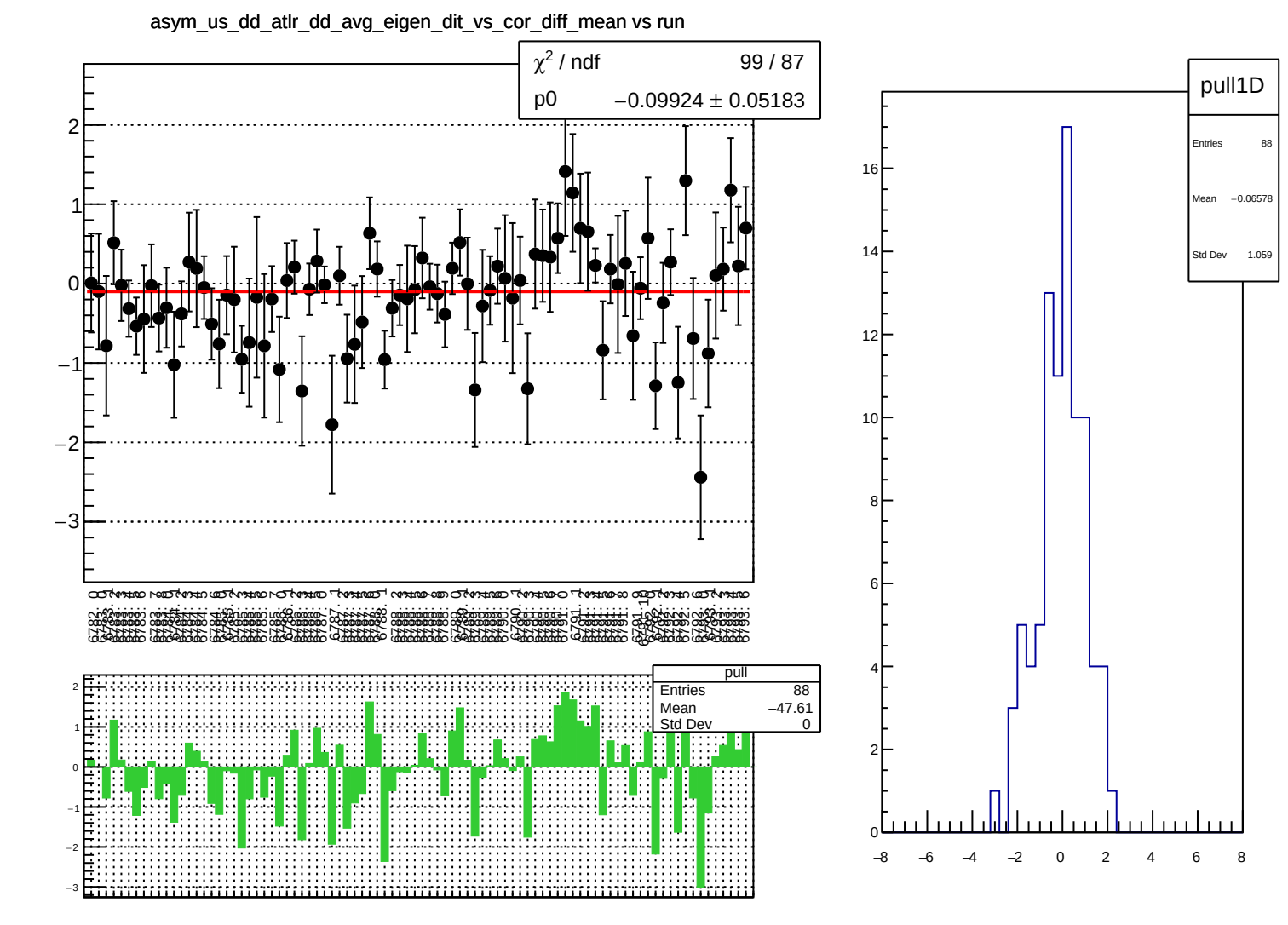

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99 / 87
p0 −0.09924 ± 0.05183
pull
Entries 88
Mean −47.61
Std Dev 0
pull1D
Entries 88
Mean −0.06579
Std Dev 1.059

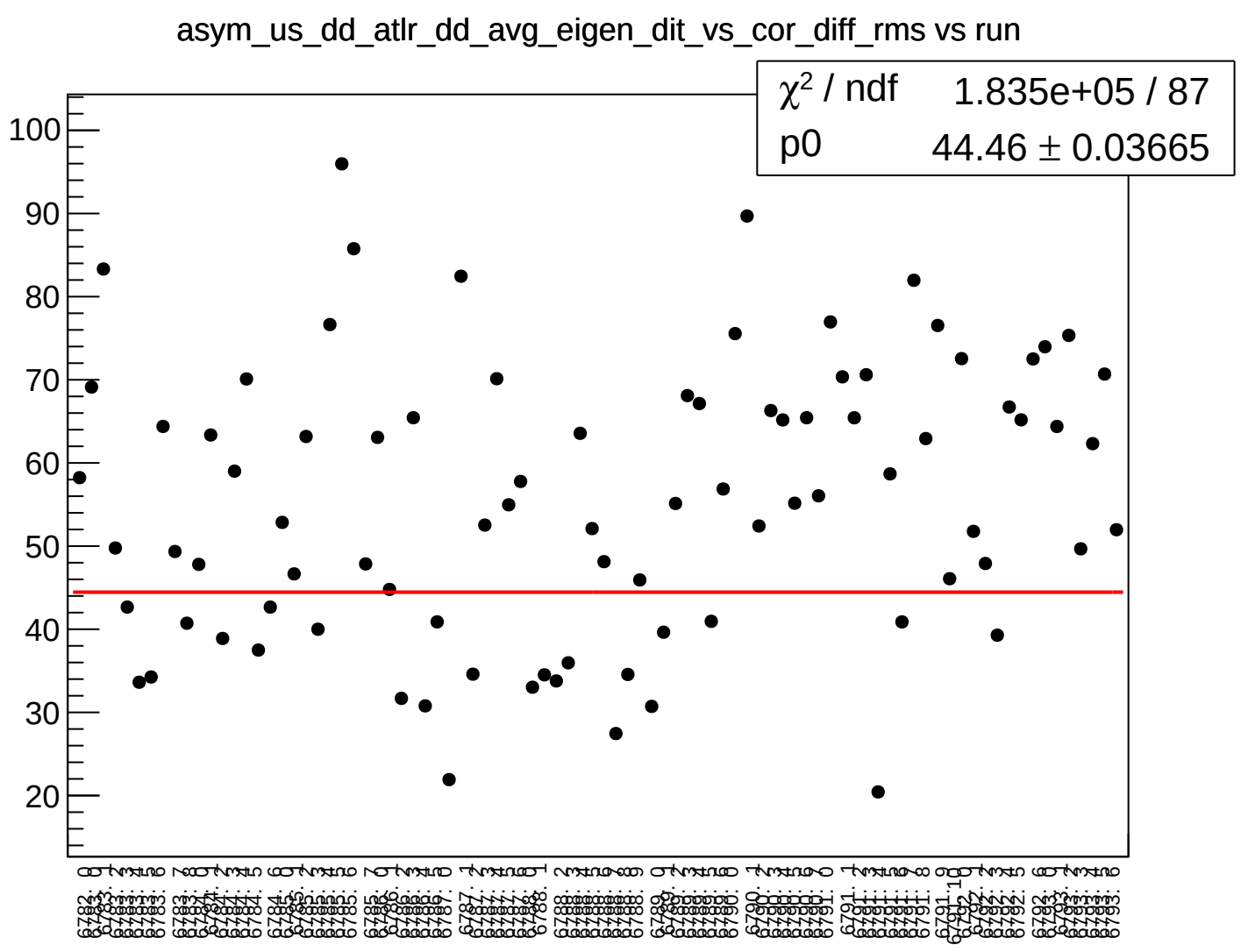

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 87
p0 44.46 ± 0.03665
100
90
80
70
60
50
40
30
20

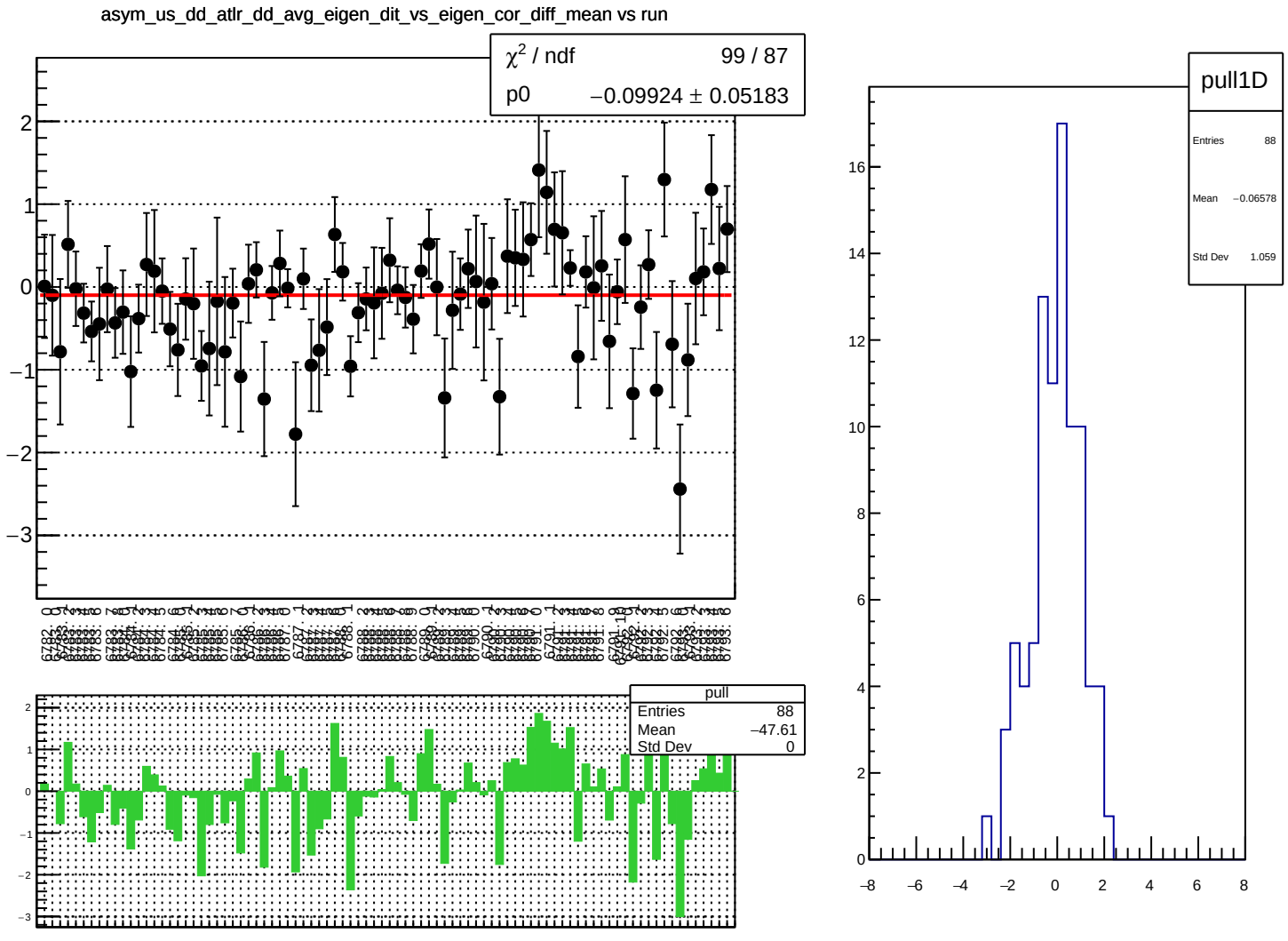

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.33 / 87
p0 −2.647e−06 ± 4.518e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 962.4
Std Dev 0
2
1
0
−1
−2

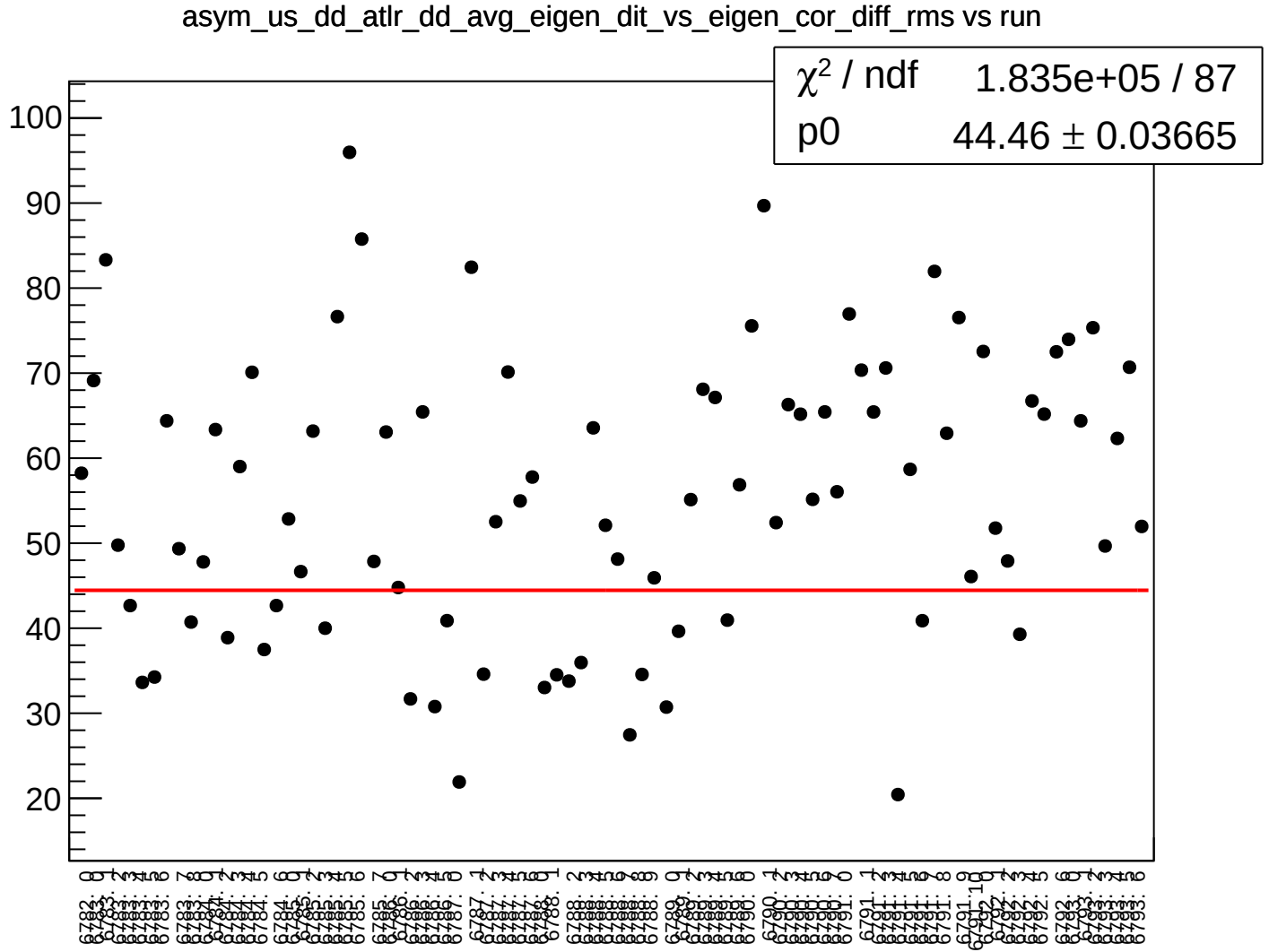

pull1D
Entries 88
Mean 0.0009837
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

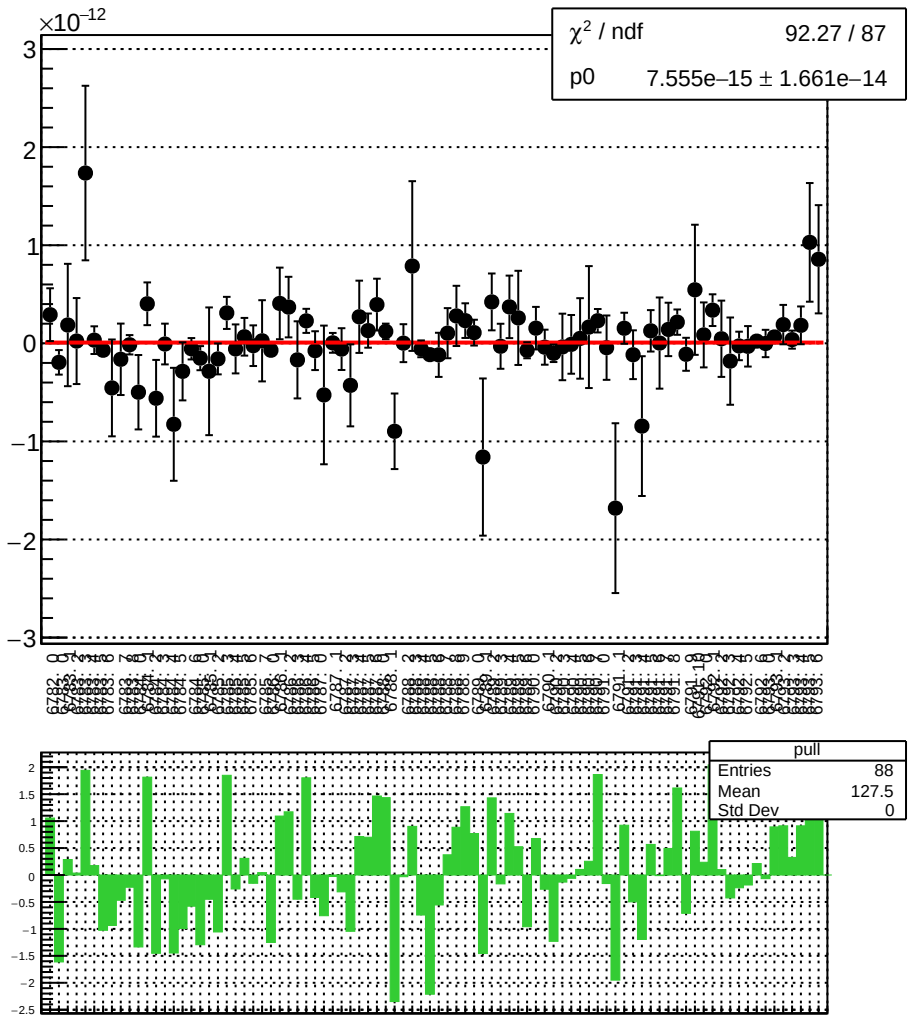

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2788 / 87
p0 0.004106 ± 3.195e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

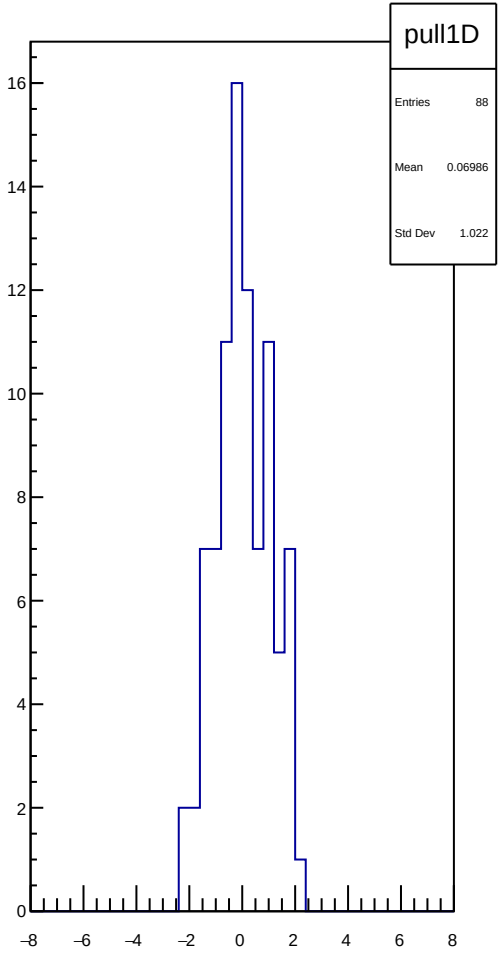

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99 / 87
p0 −0.09924 ± 0.05183
pull
Entries 88
Mean −47.61
Std Dev 0
pull1D
Entries 88
Mean −0.06578
Std Dev 1.059

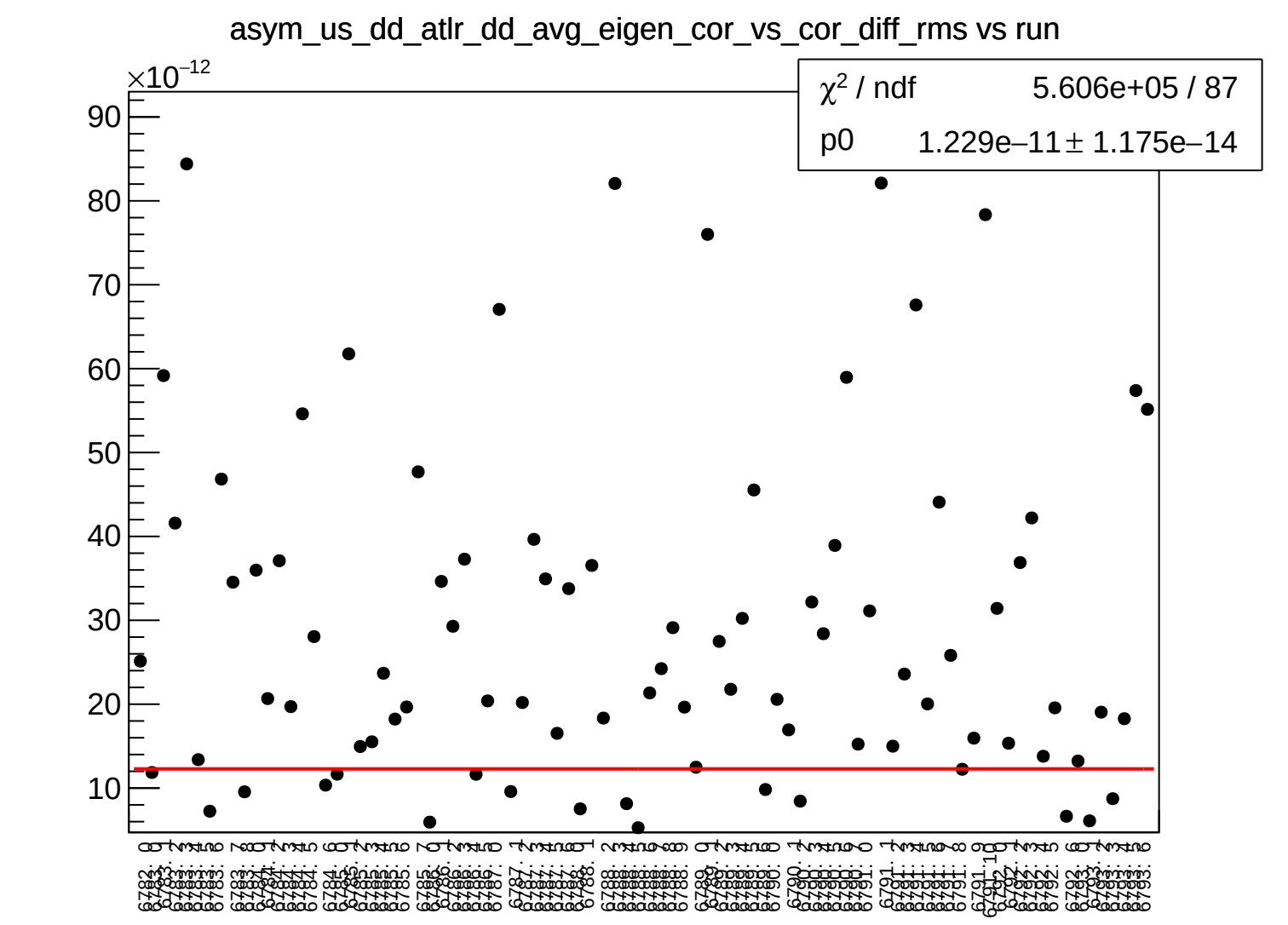

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 87
p0 44.46 ± 0.03665
100
90
80
70
60
50
40
30
20

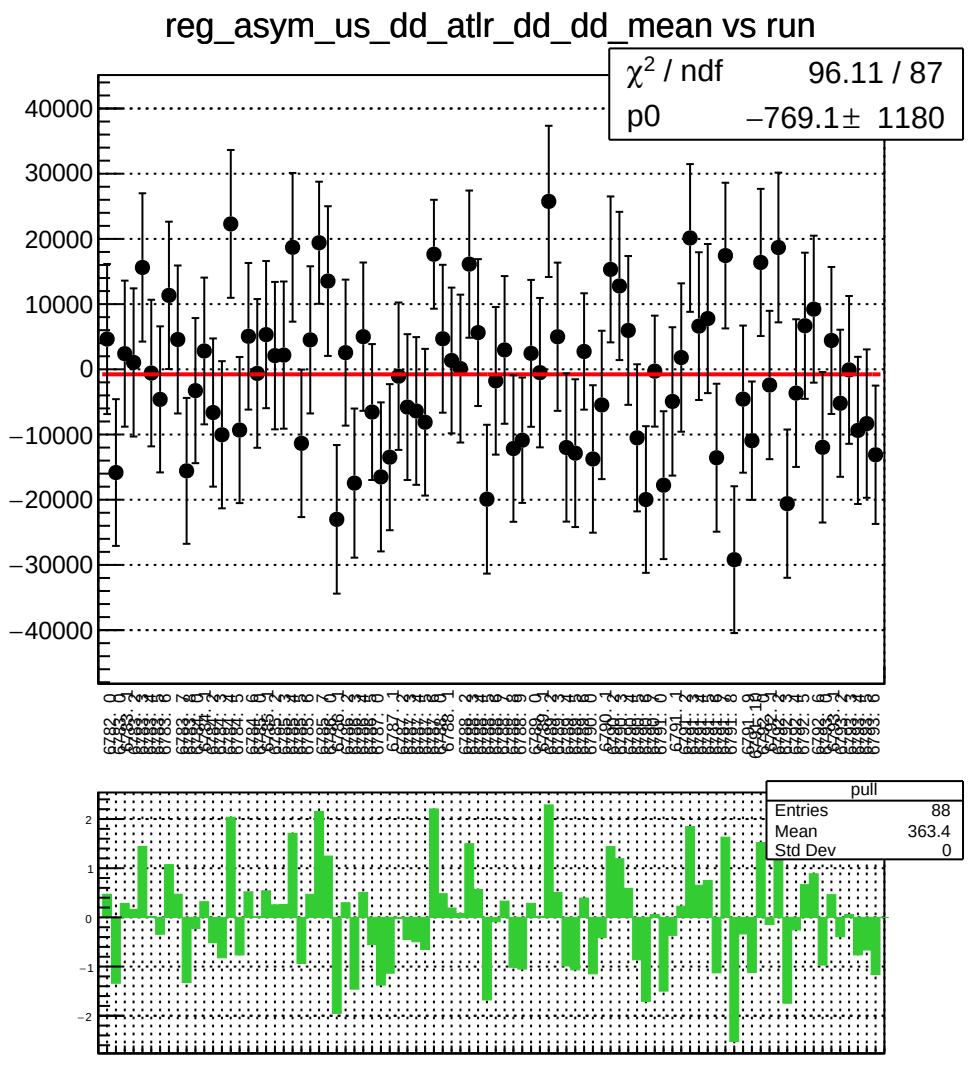

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99 / 87
p0 −0.09924 ± 0.05183
pull
Entries 88
Mean −47.61
Std Dev 0
pull1D
Entries 88
Mean −0.06578
Std Dev 1.059

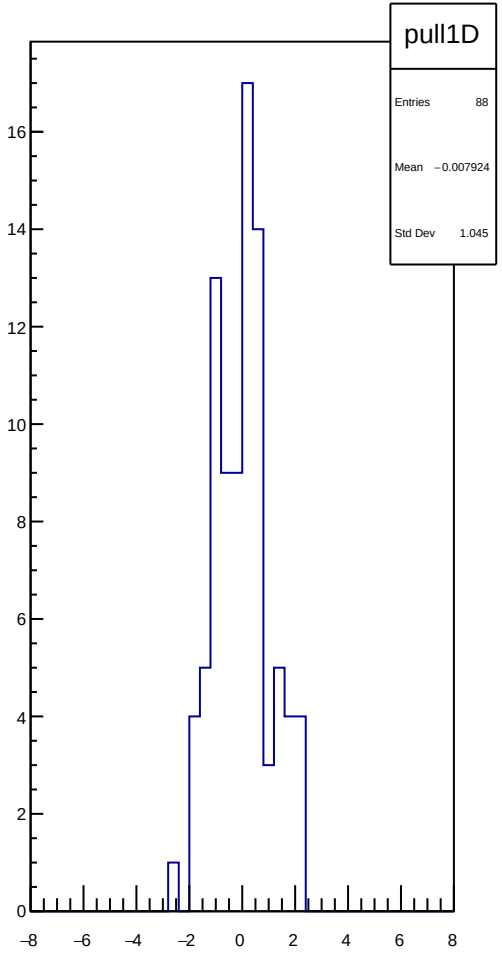

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 87
p0 44.46 ± 0.03665
100
90
80
70
60
50
40
30
20

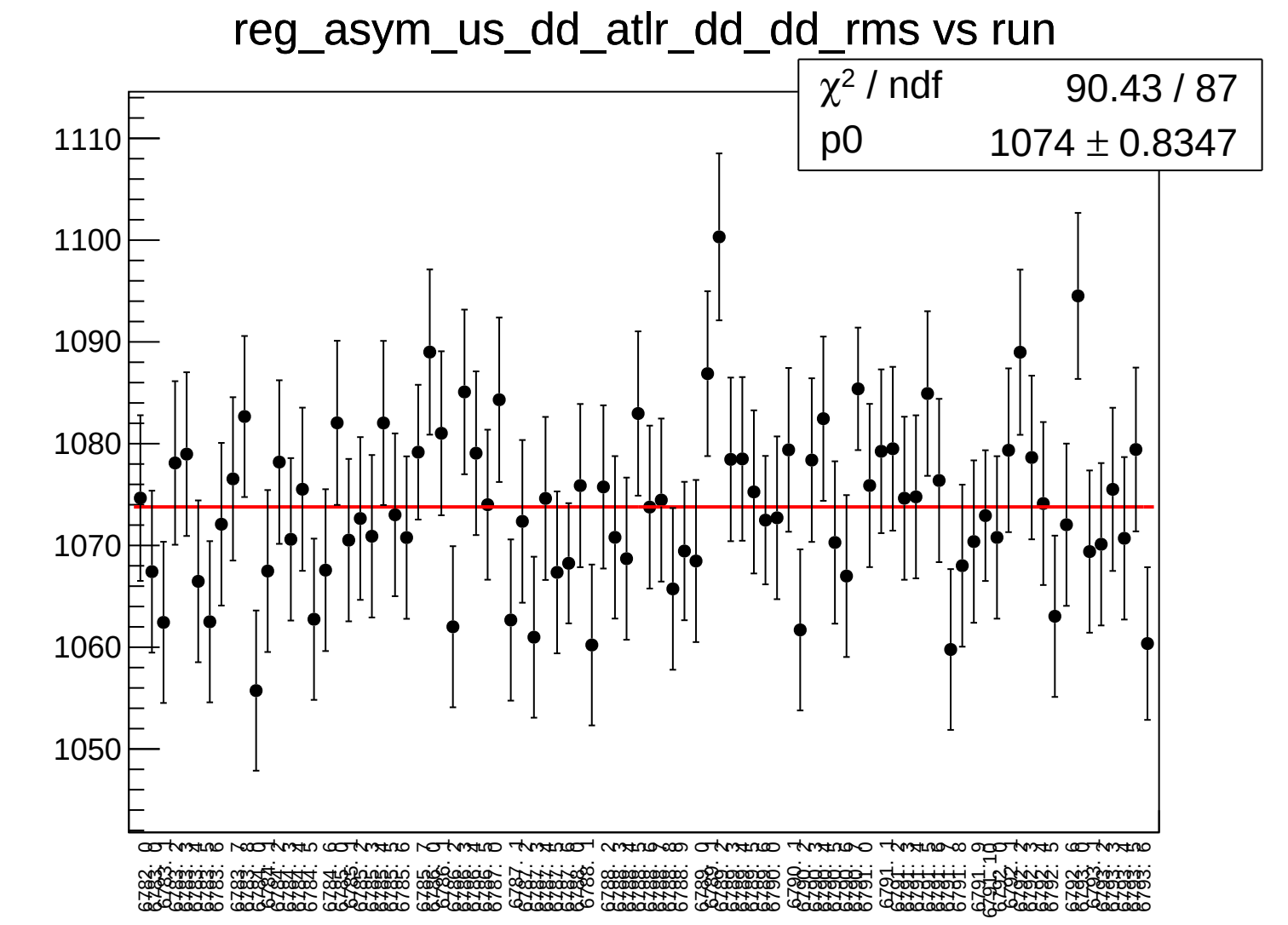

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.27 / 87
p0 7.555e−15 ± 1.661e−14
pull
Entries 88
Mean 127.5
Std Dev 0

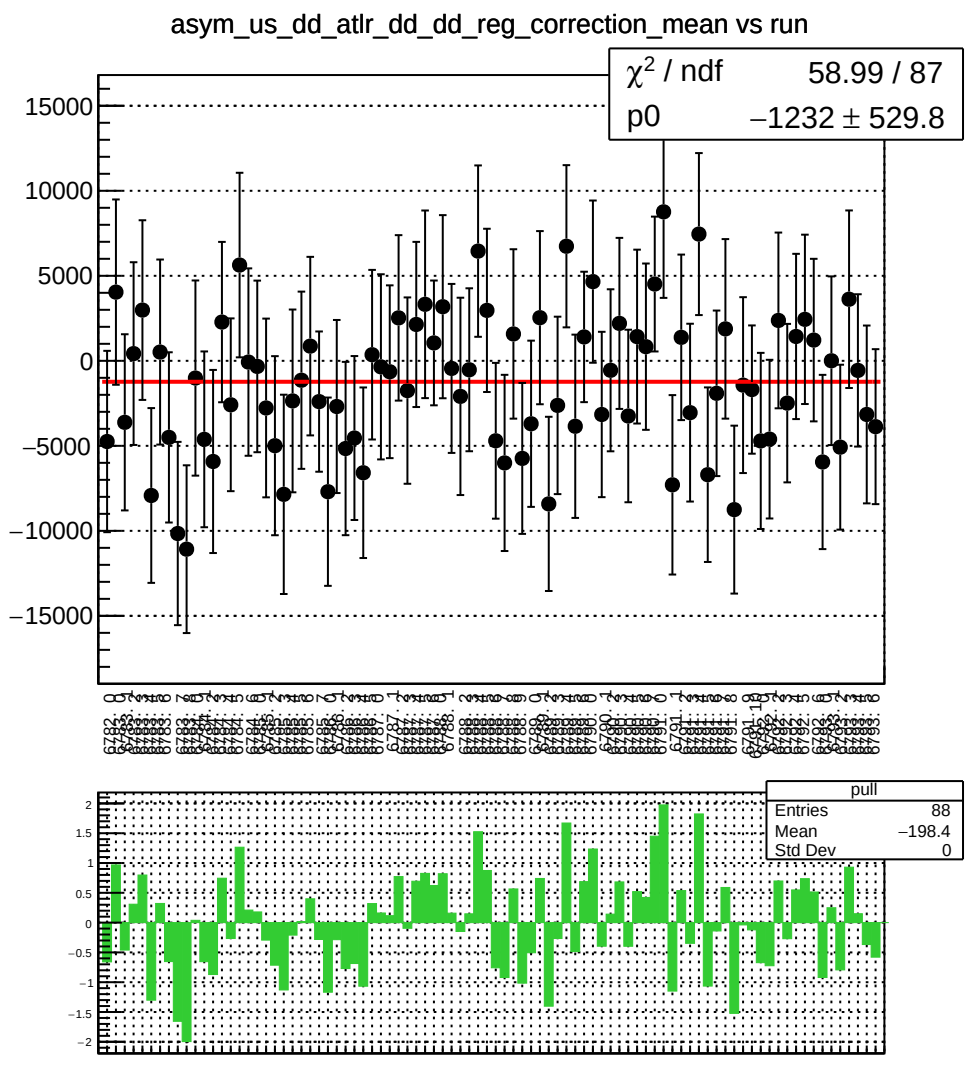

pull1D
Entries 88
Mean 0.06986
Std Dev 1.022

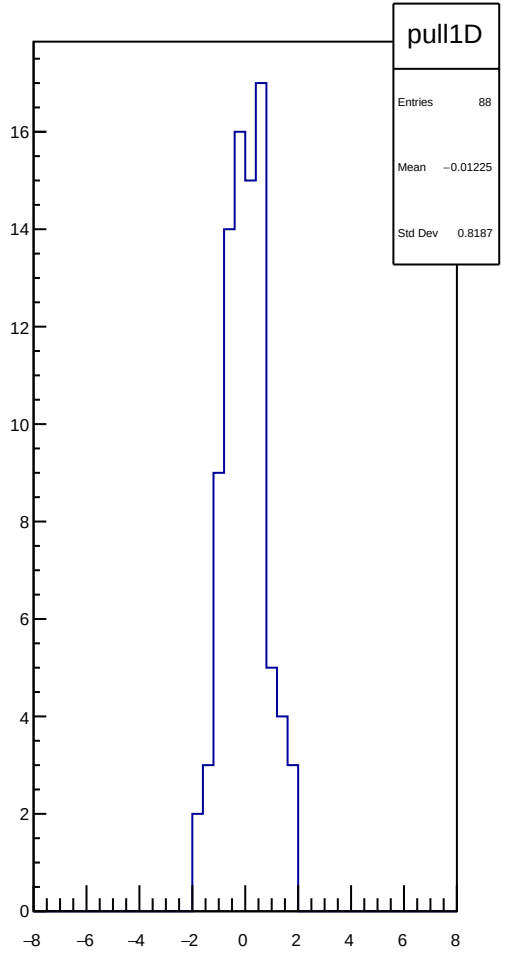

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.606e+05 / 87
p0 1.229e−11 ± 1.175e−14
90
80
70
60
50
40
30
20
10

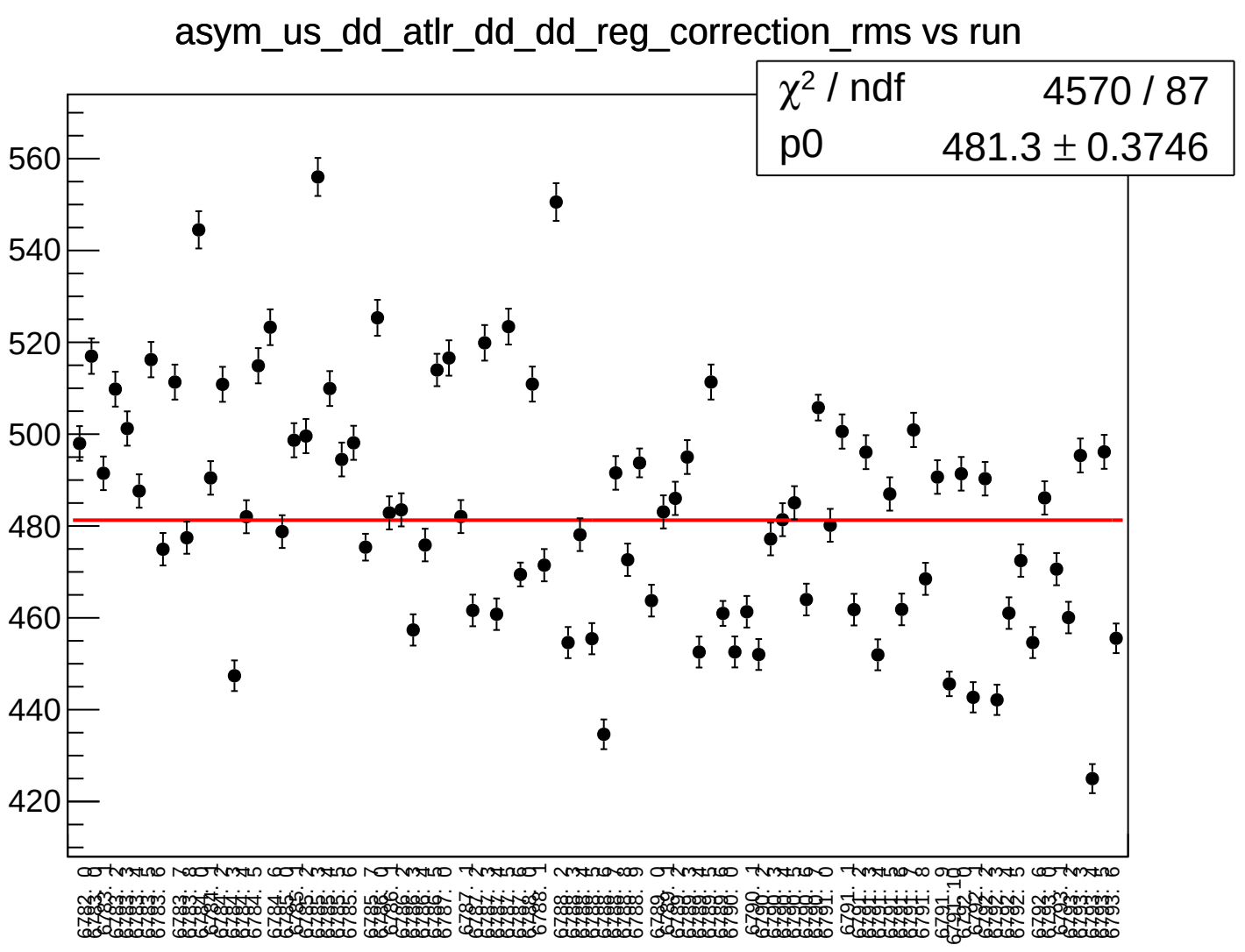

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.11 / 87
p0 −769.1± 1180
pull
Entries 88
Mean 363.4
Std Dev 0

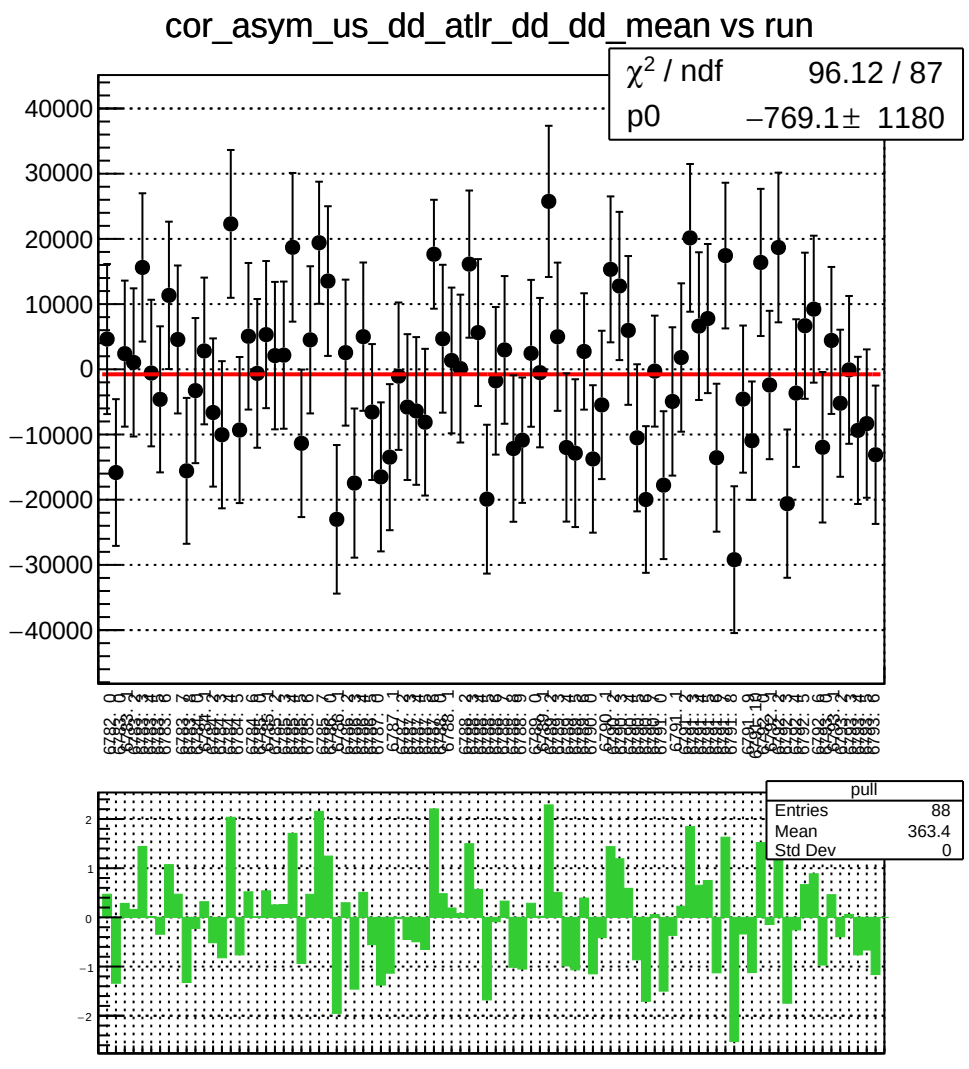

pull1D
Entries 88
Mean −0.007924
Std Dev 1.045

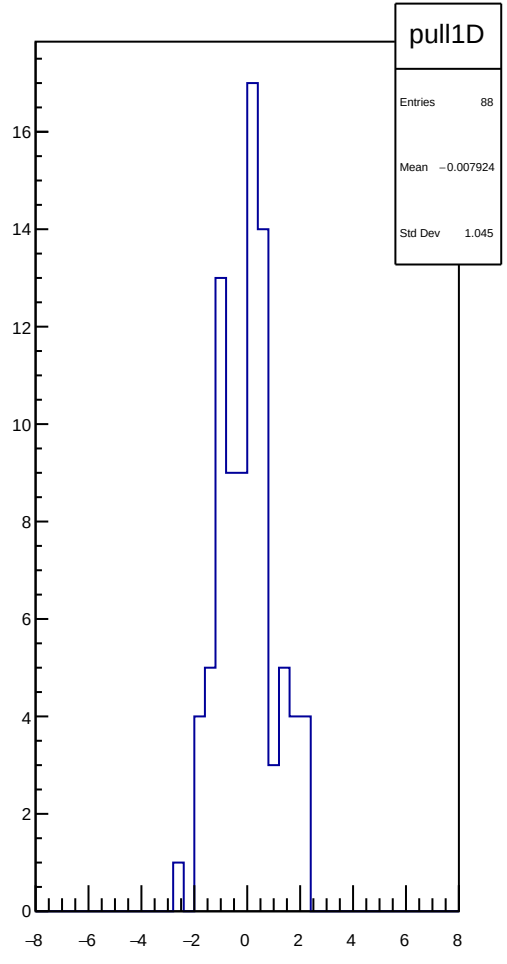

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 90.43 / 87
p0 1074 ± 0.8347
1110
1100
1090
1080
1070
1060
1050

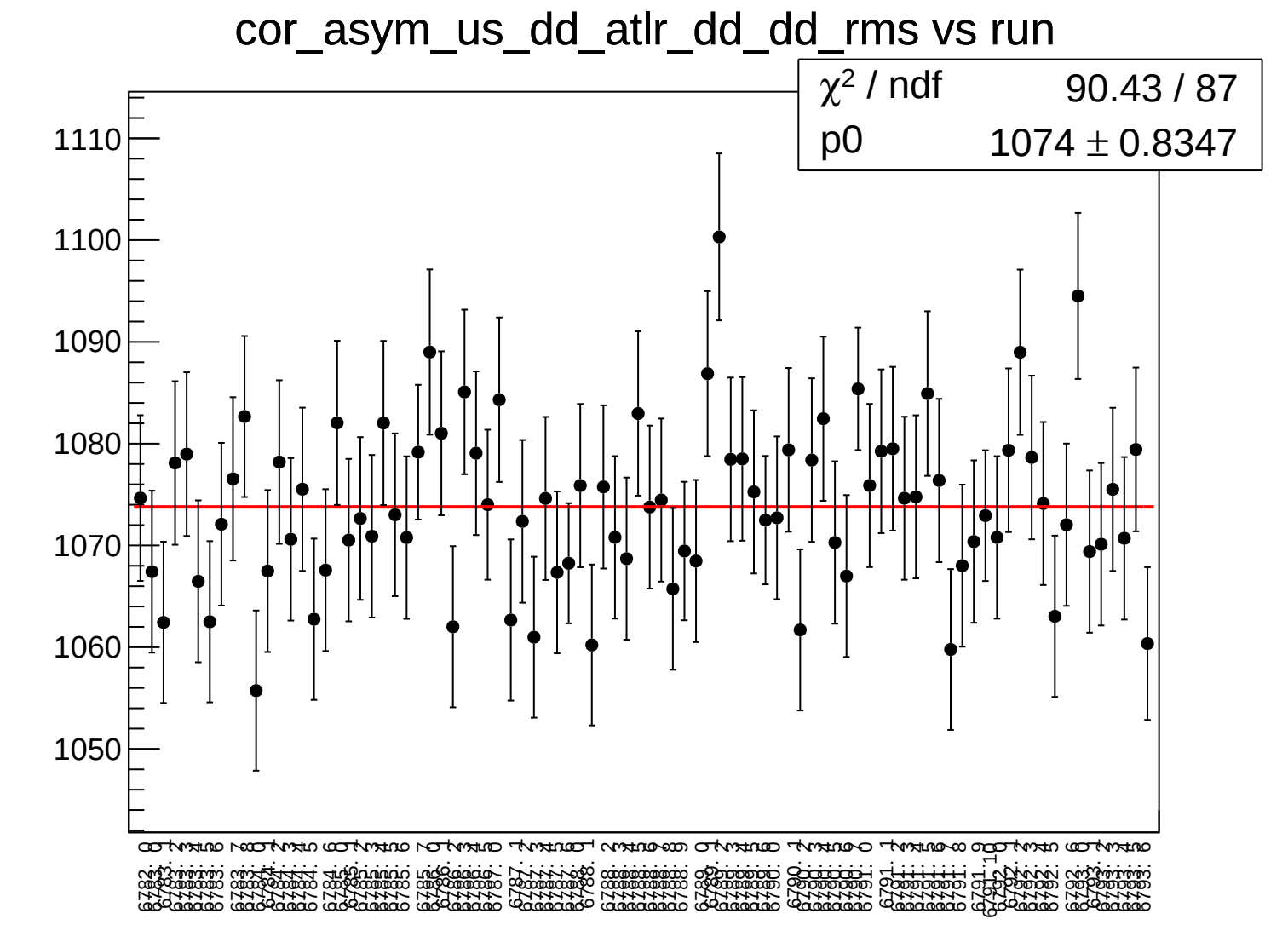

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 58.99 / 87
p0 −1232 ± 529.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −198.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

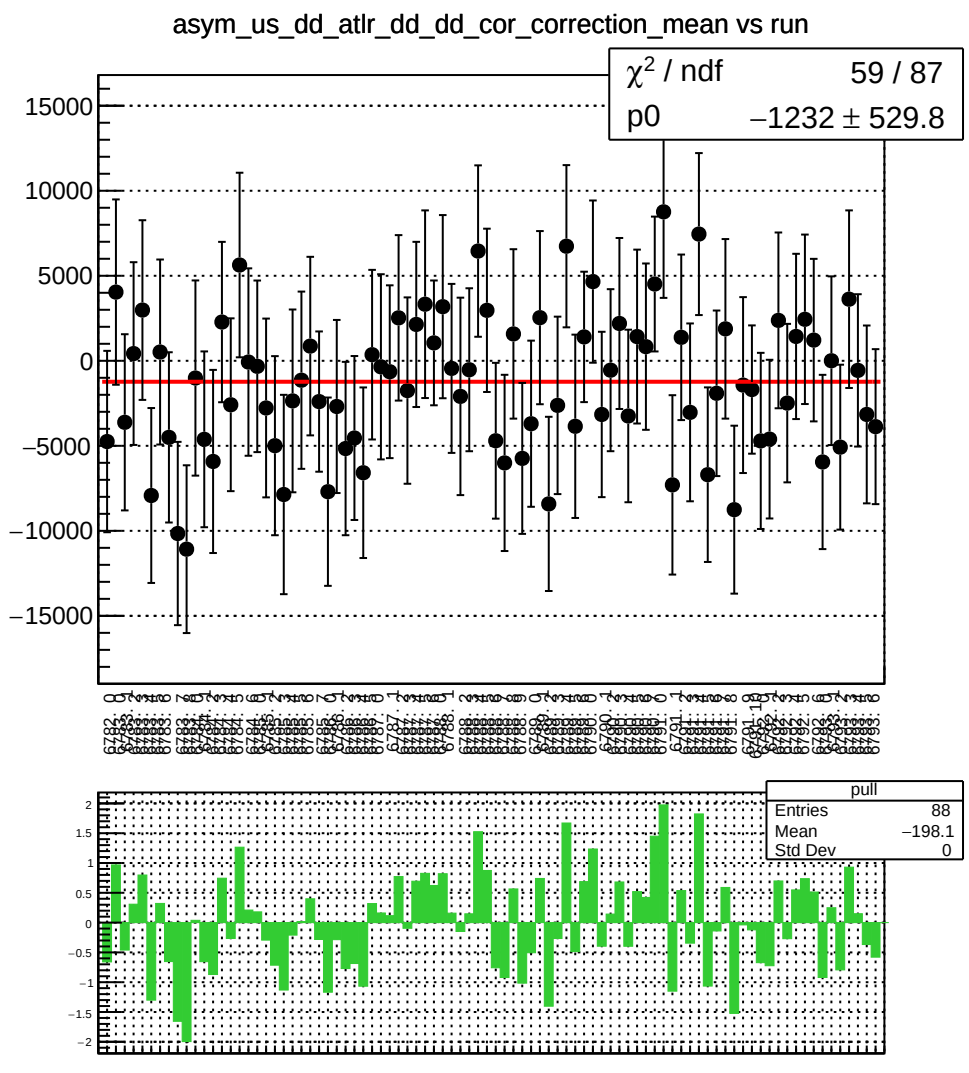

pull1D
Entries 88
Mean −0.01225
Std Dev 0.8187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

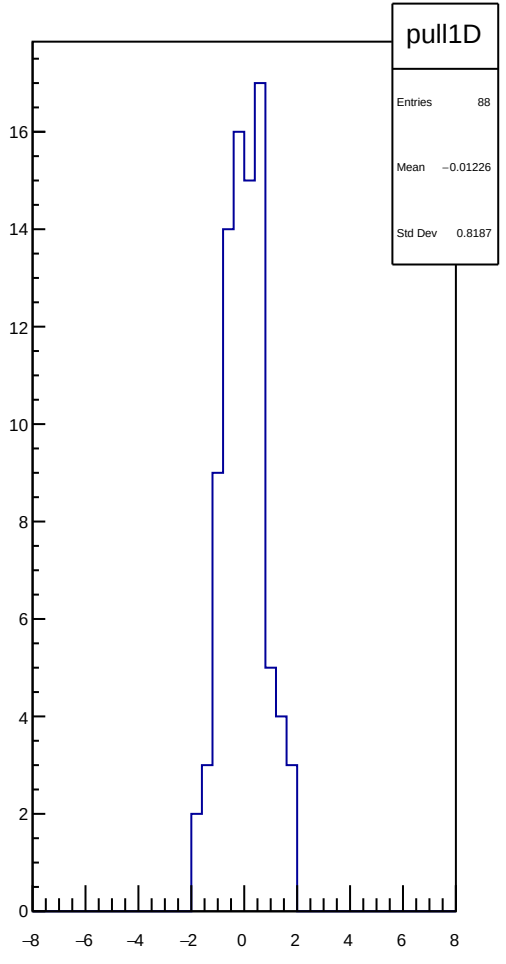

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 4570 / 87
p0 481.3 ± 0.3746
560
540
520
500
480
460
440
420

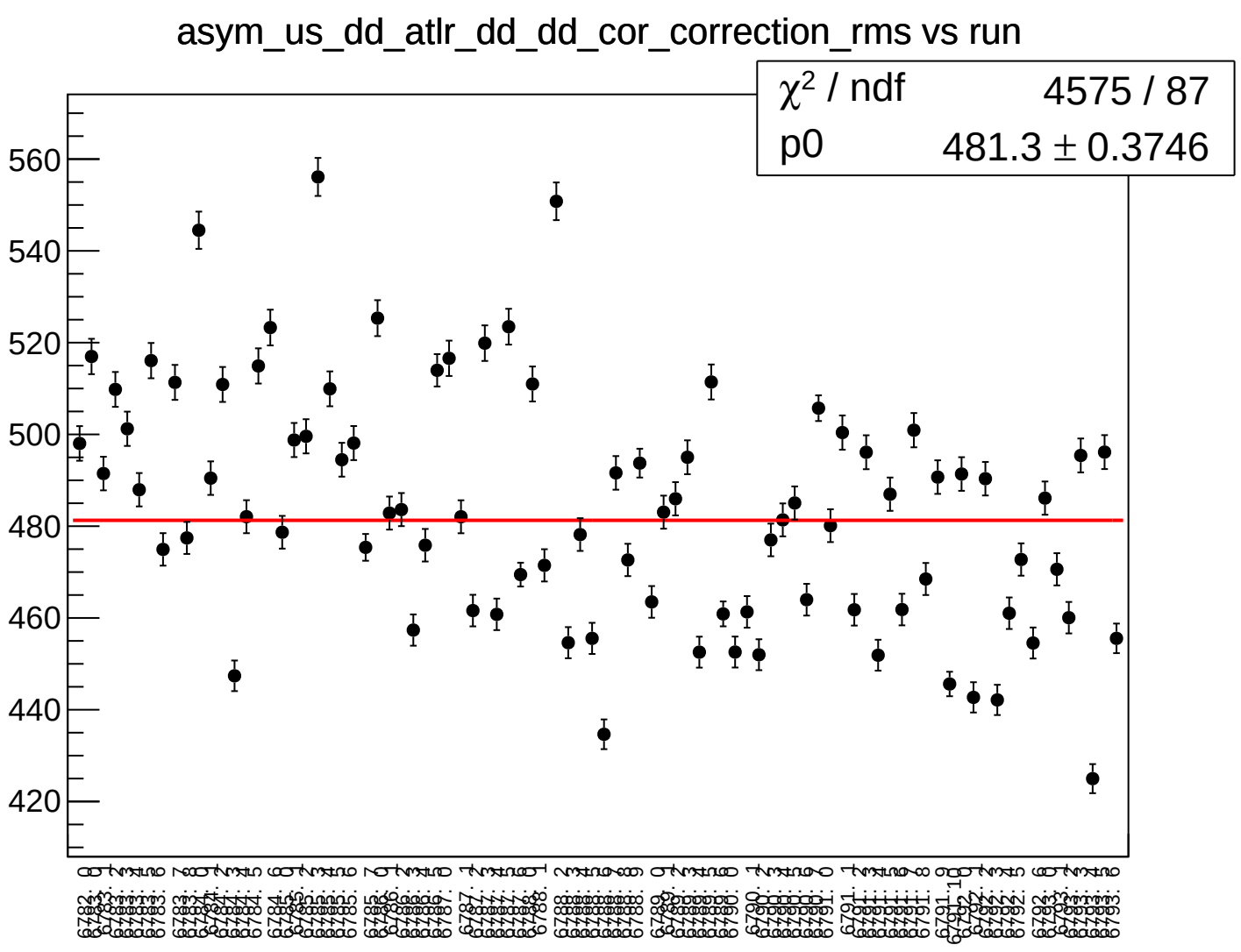

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.12 / 87
p0 −769.1± 1180
pull
Entries 88
Mean 363.4
Std Dev 0

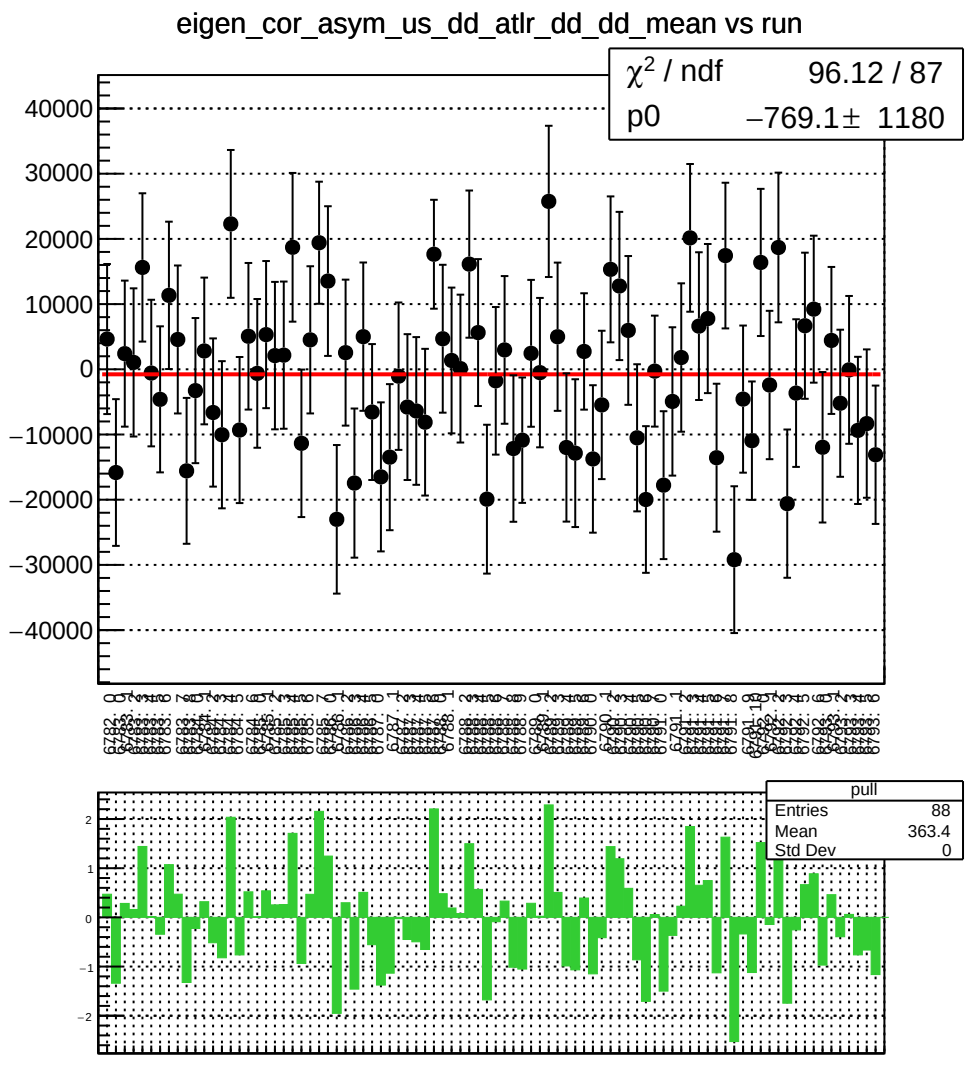

pull1D
Entries 88
Mean −0.007924
Std Dev 1.045

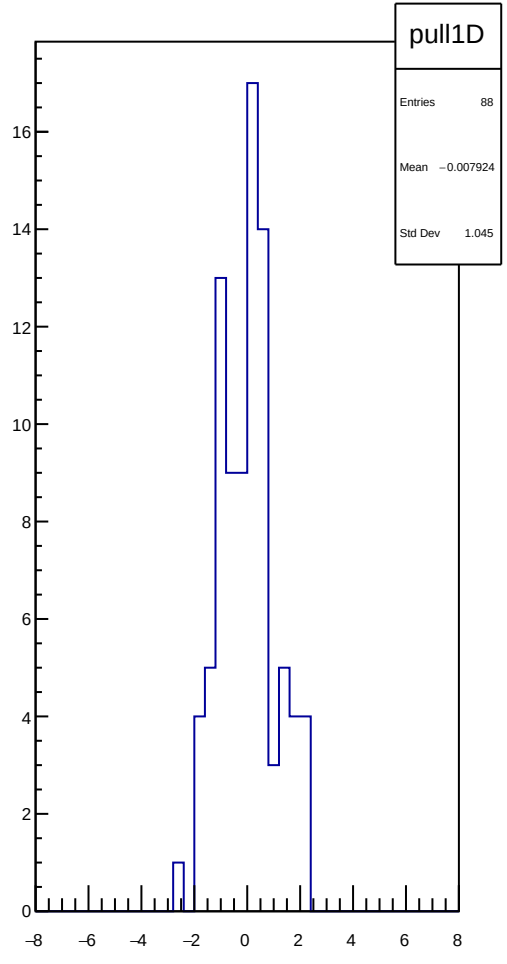

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 90.43 / 87
p0 1074 ± 0.8347
1110
1100
1090
1080
1070
1060
1050

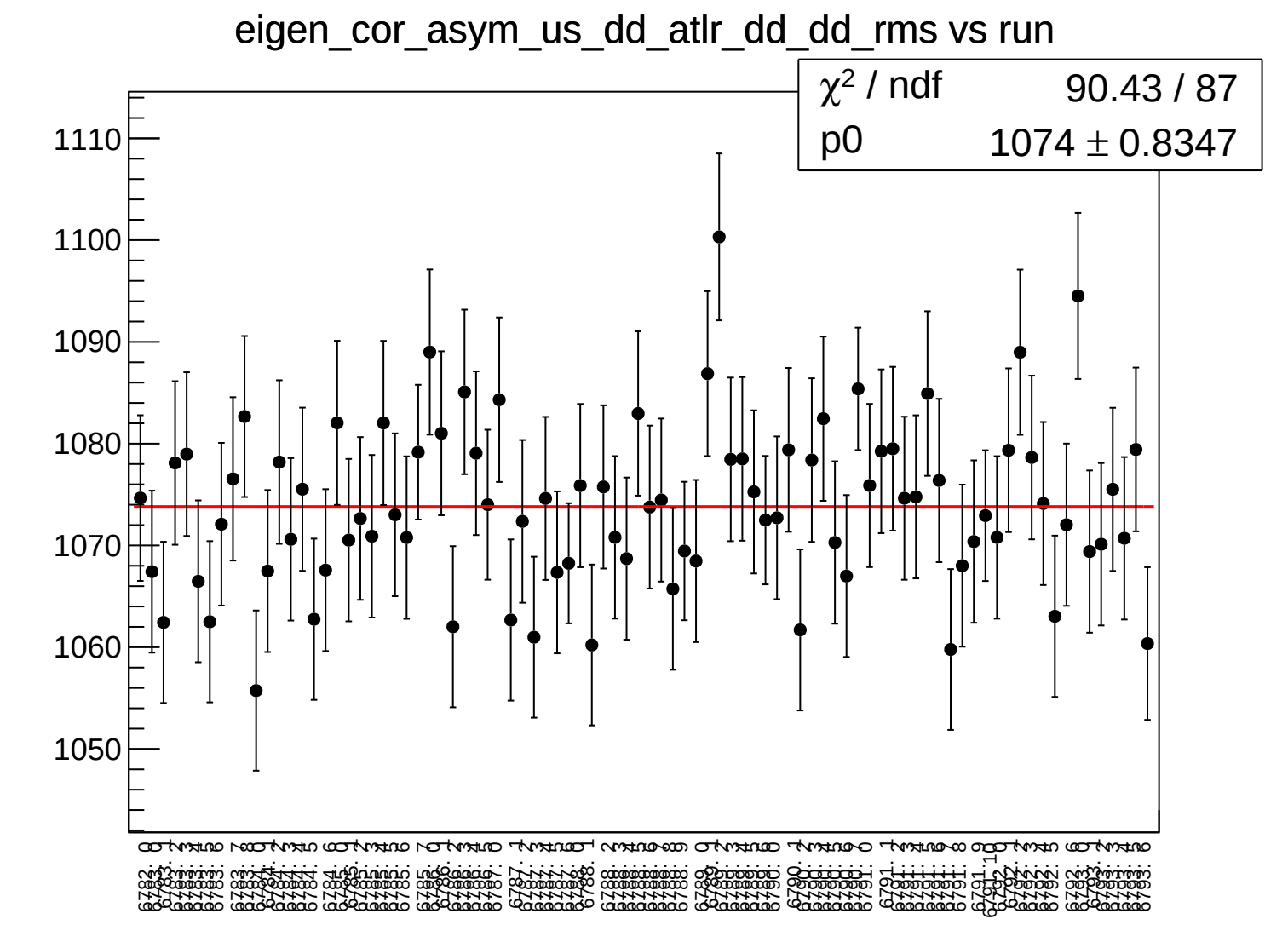

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 59 / 87
p0 −1232 ± 529.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −198.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

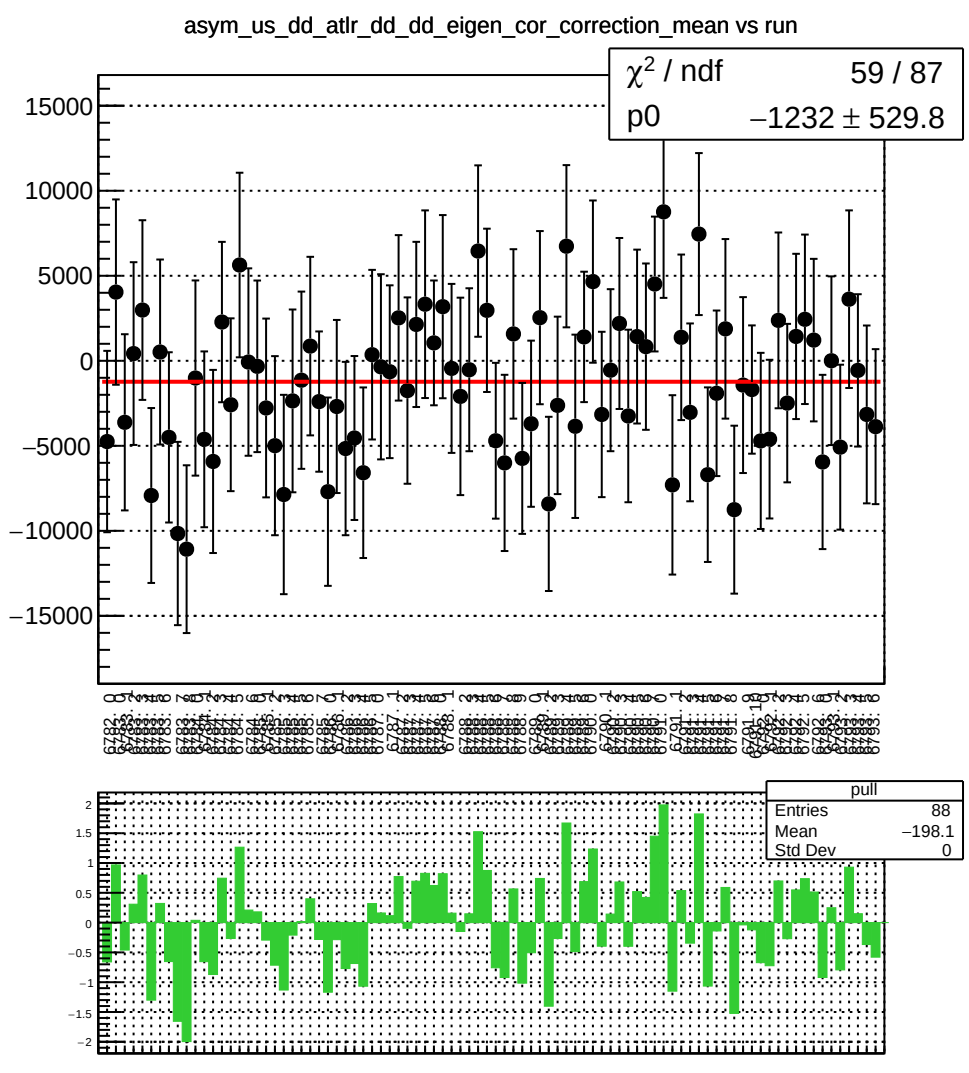

pull1D
Entries 88
Mean −0.01226
Std Dev 0.8187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

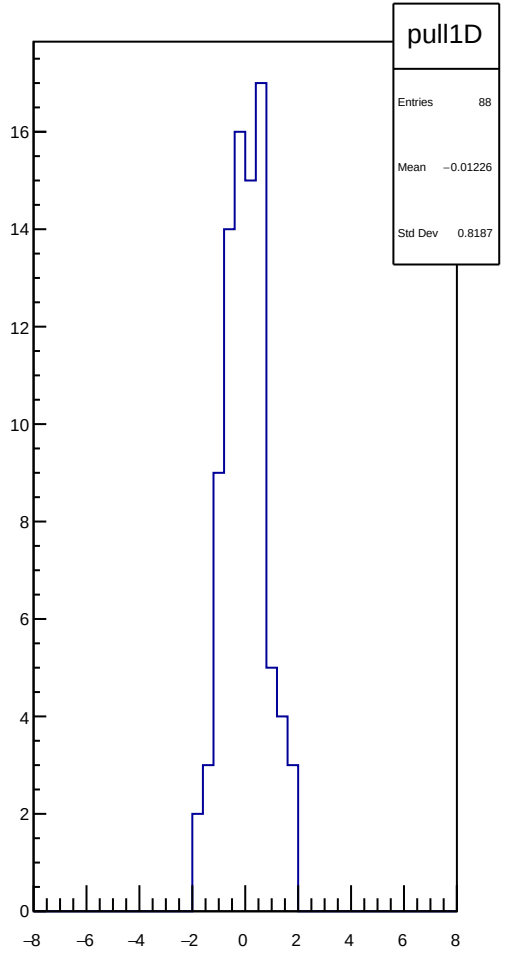

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 4575 / 87
p0 481.3 ± 0.3746
560
540
520
500
480
460
440
420

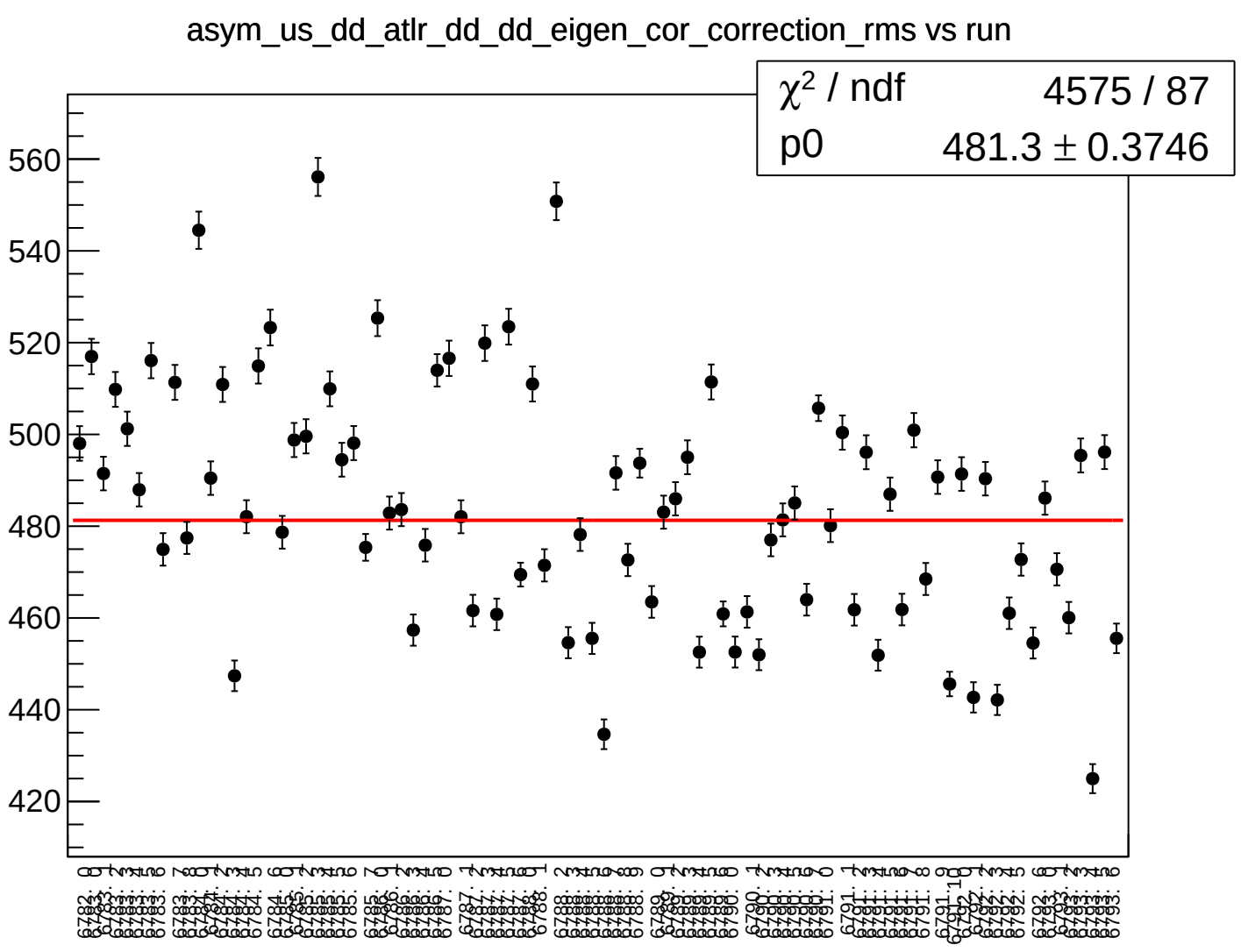

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.12 / 87
p0 −769.1± 1180
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 363.4
Std Dev 0
2
1
0
−1
−2

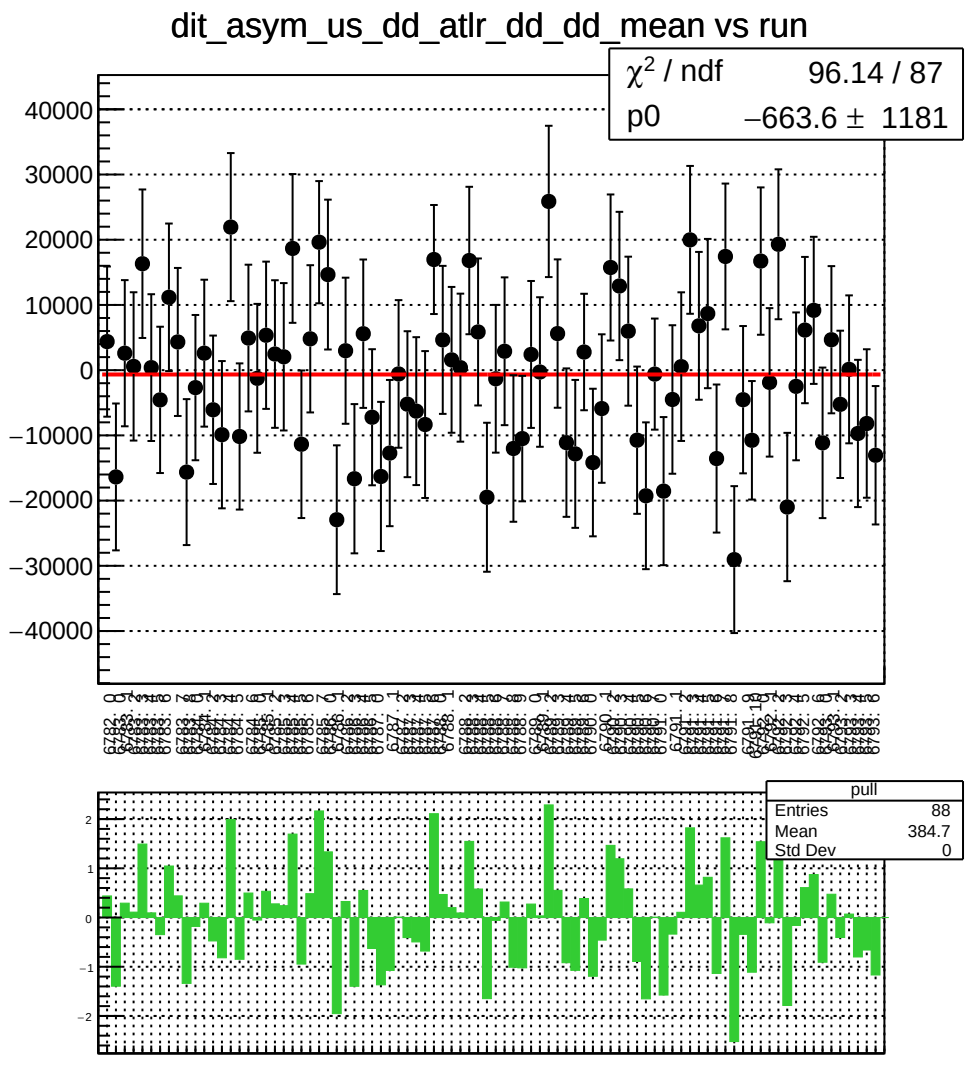

pull1D
Entries 88
Mean −0.007924
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

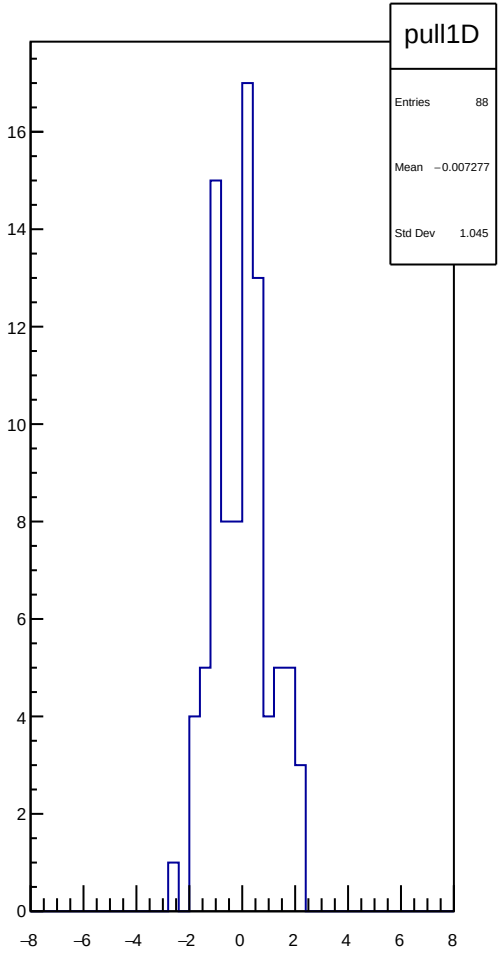

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 90.43 / 87
p0 1074 ± 0.8347
1110
1100
1090
1080
1070
1060
1050

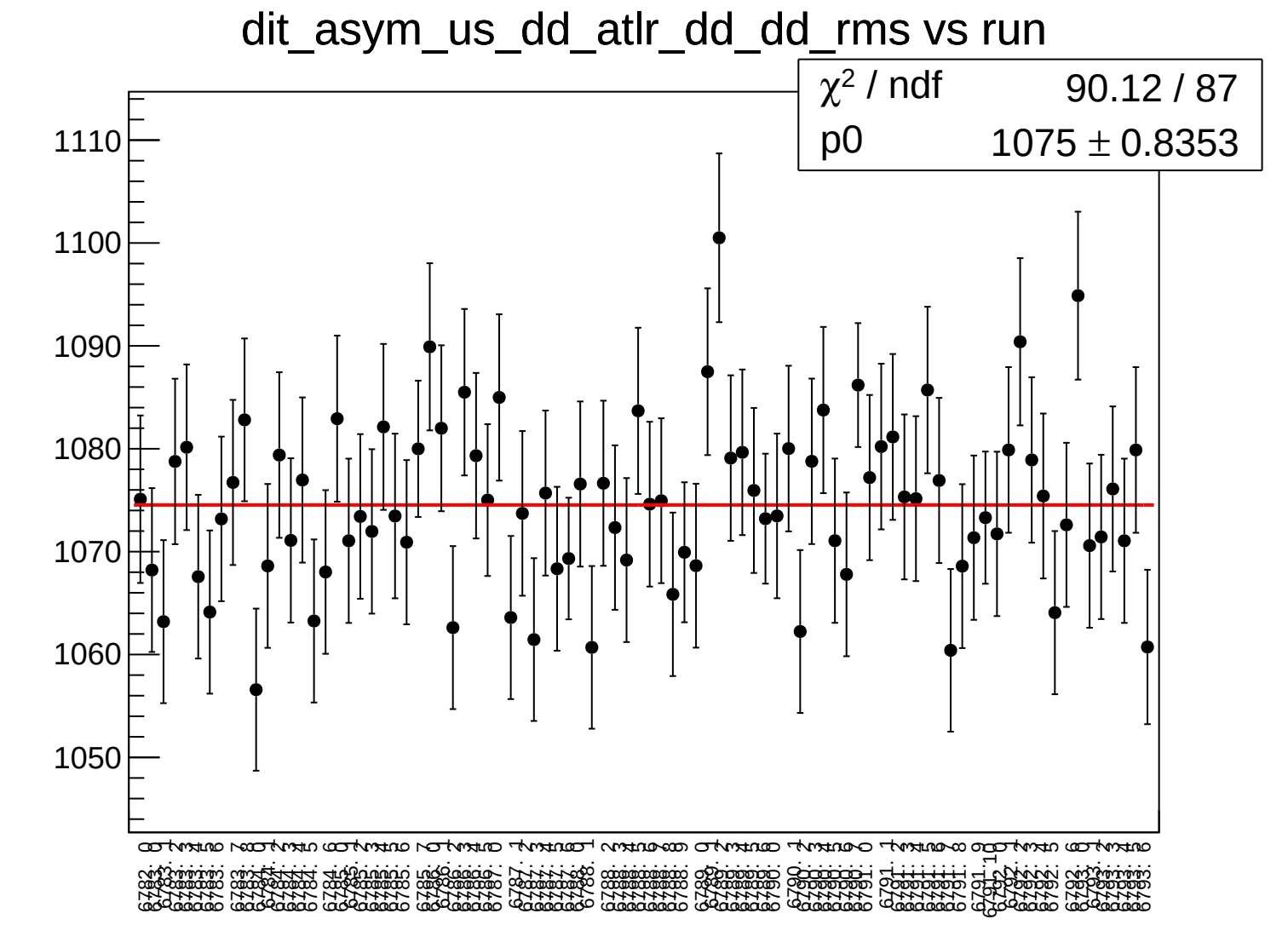

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 59 / 87
p0 −1232 ± 529.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −198.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

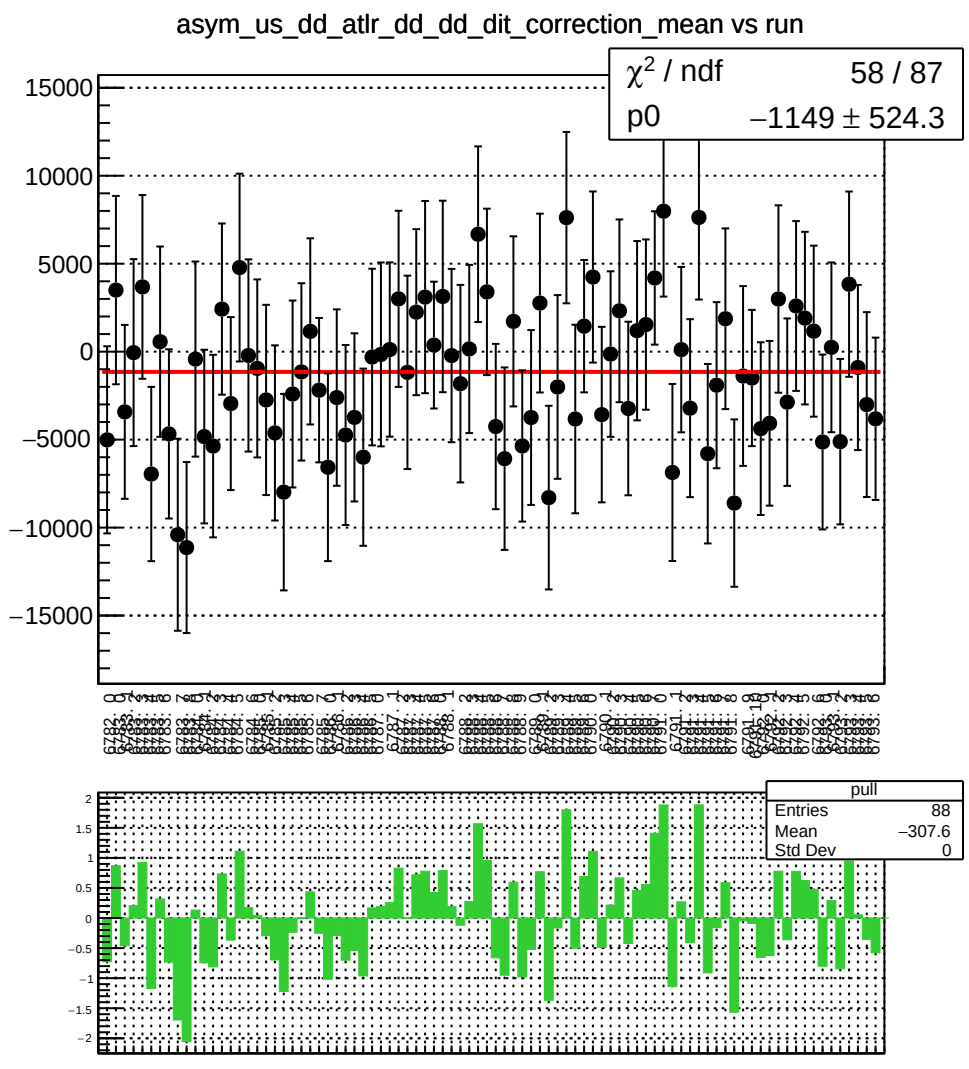

pull1D
Entries 88
Mean −0.01226
Std Dev 0.8187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

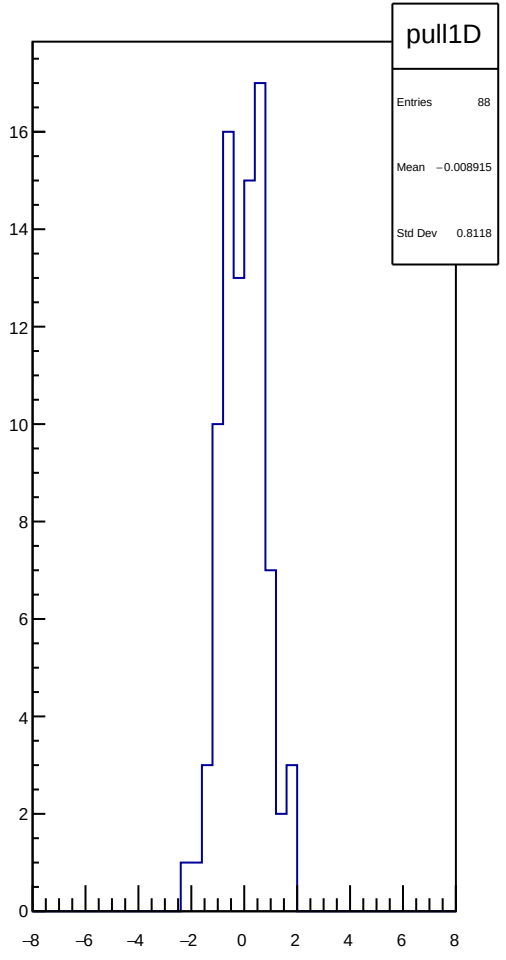

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4575 / 87
p0 481.3 ± 0.3746
560
540
520
500
480
460
440
420

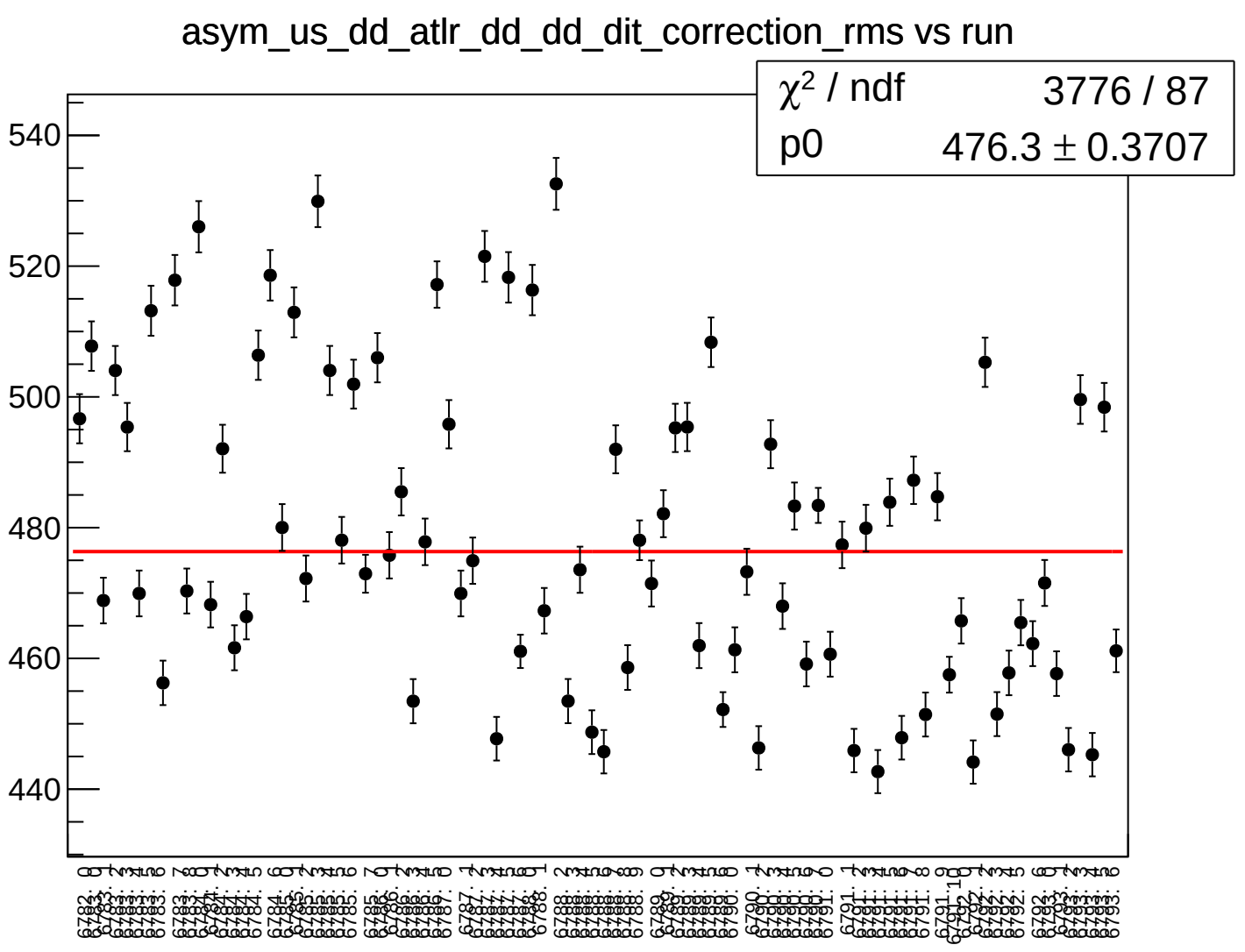

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.14 / 87
p0 −663.6 ± 1181
pull
Entries 88
Mean 384.7
Std Dev 0

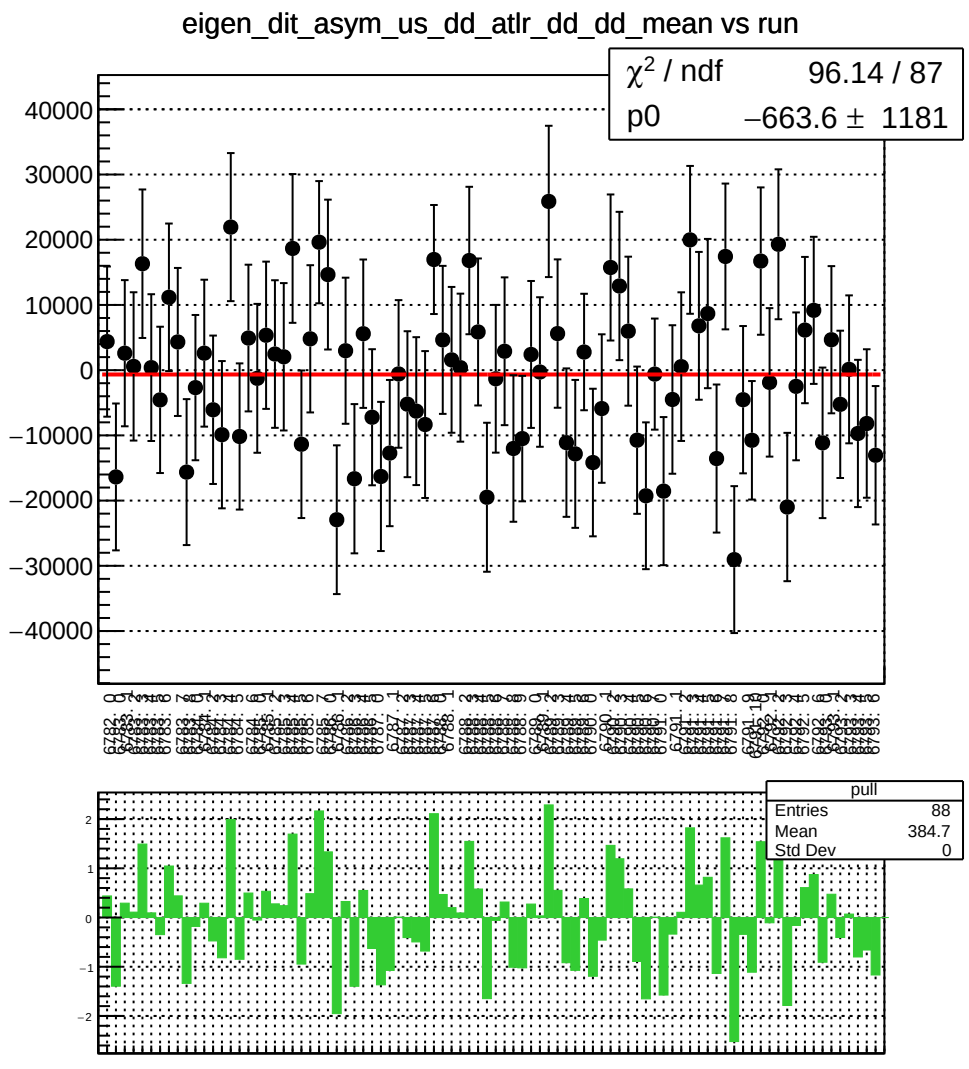

pull1D
Entries 88
Mean −0.007277
Std Dev 1.045

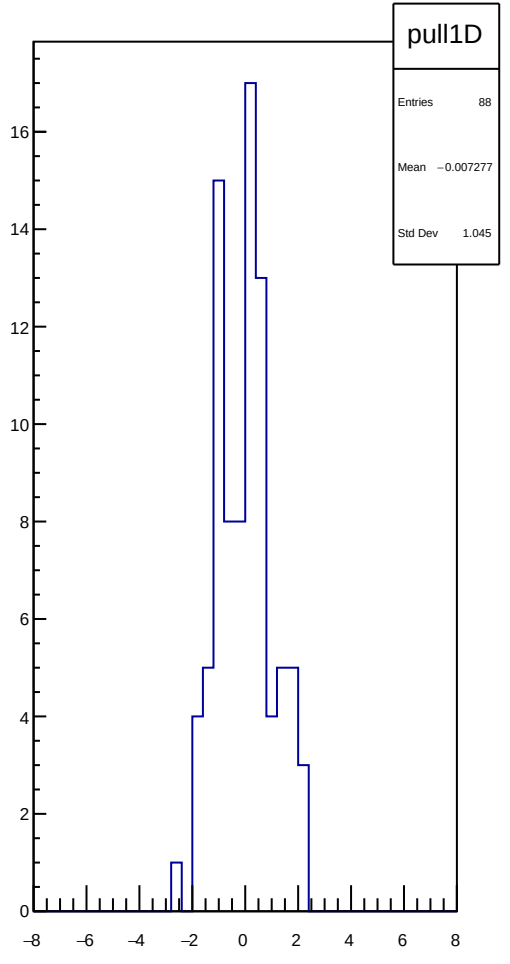

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 90.12 / 87
p0 1075 ± 0.8353
1110
1100
1090
1080
1070
1060
1050

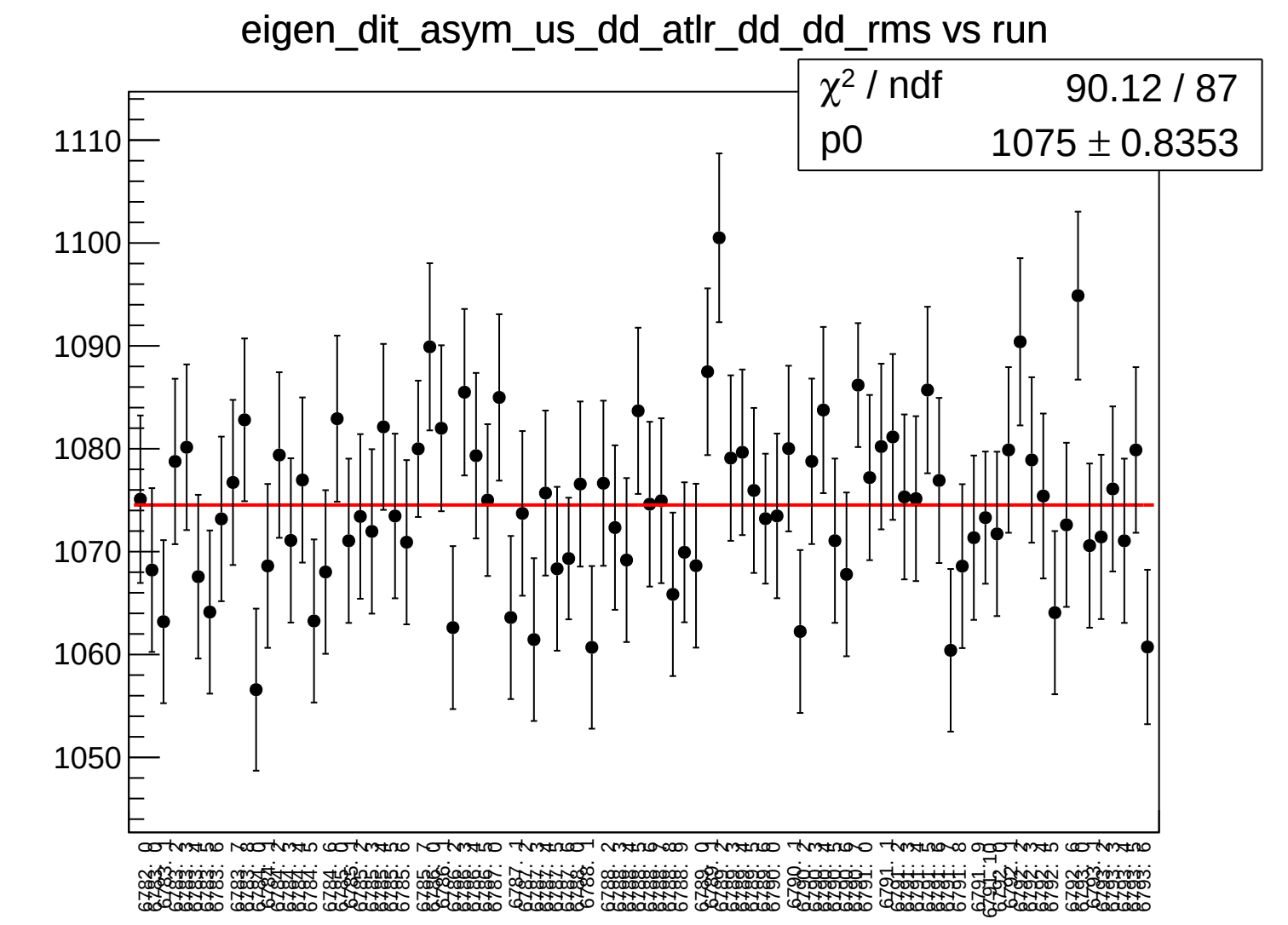

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 58 / 87
p0 −1149 ± 524.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −307.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

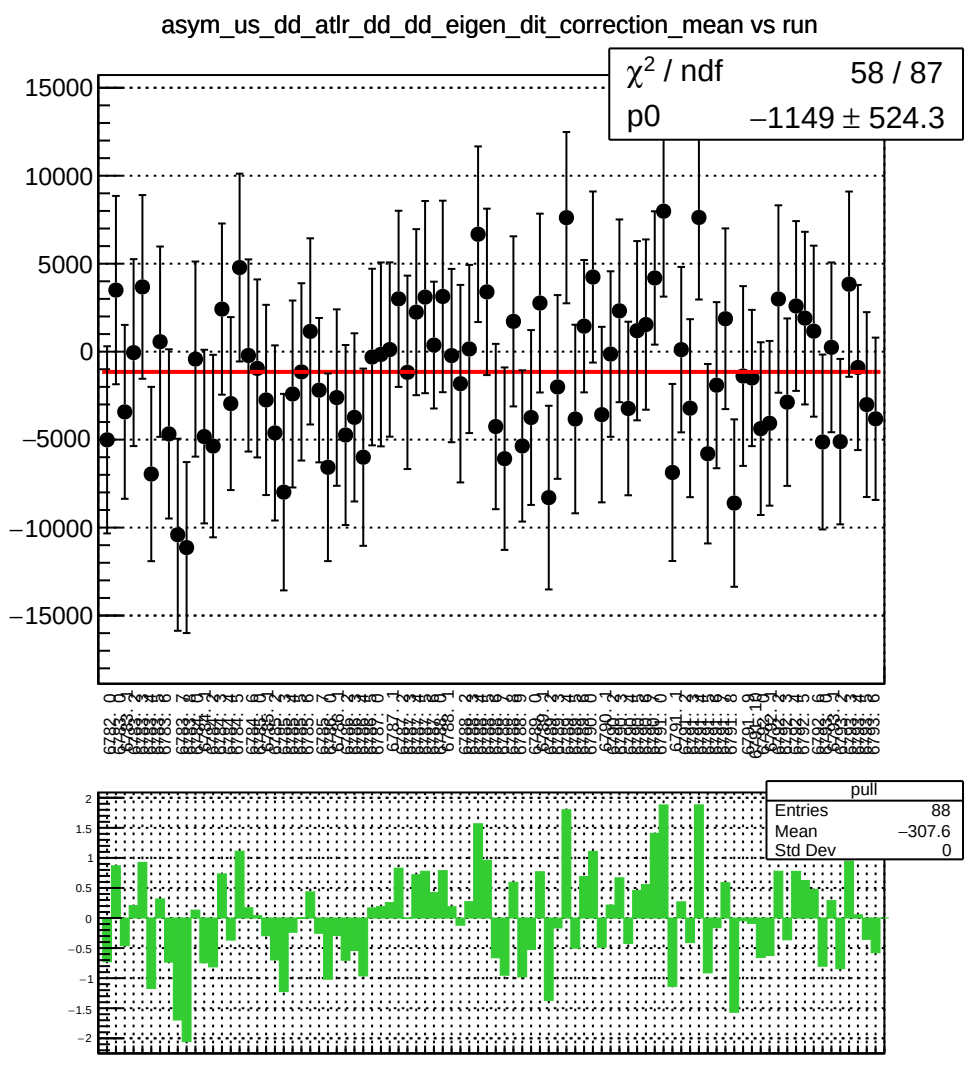

pull1D
Entries 88
Mean −0.008915
Std Dev 0.8118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

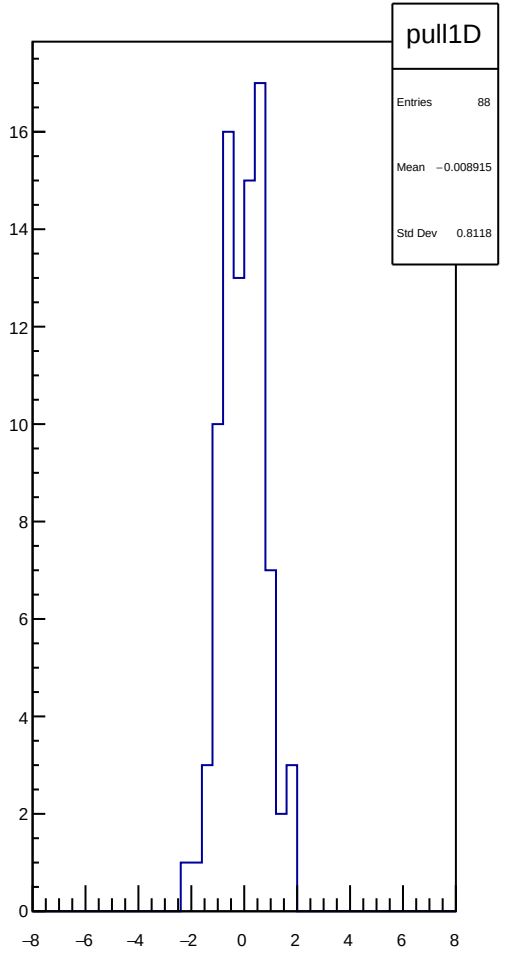

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 3776 / 87
p0 476.3 ± 0.3707
540
520
500
480
460
440

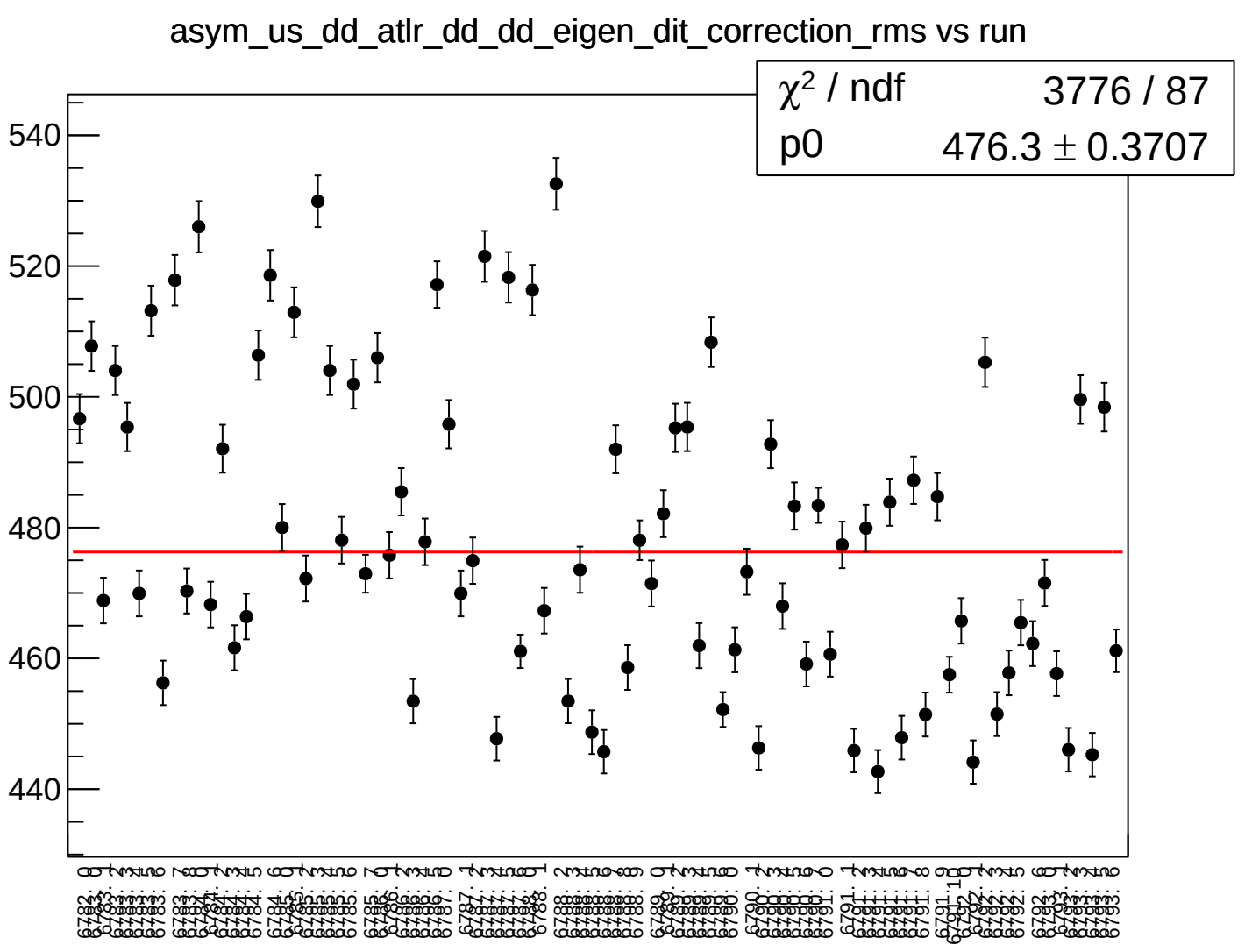

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.14 / 87
p0 −663.6 ± 1181
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 384.7
Std Dev 0
2
1
0
−1
−2

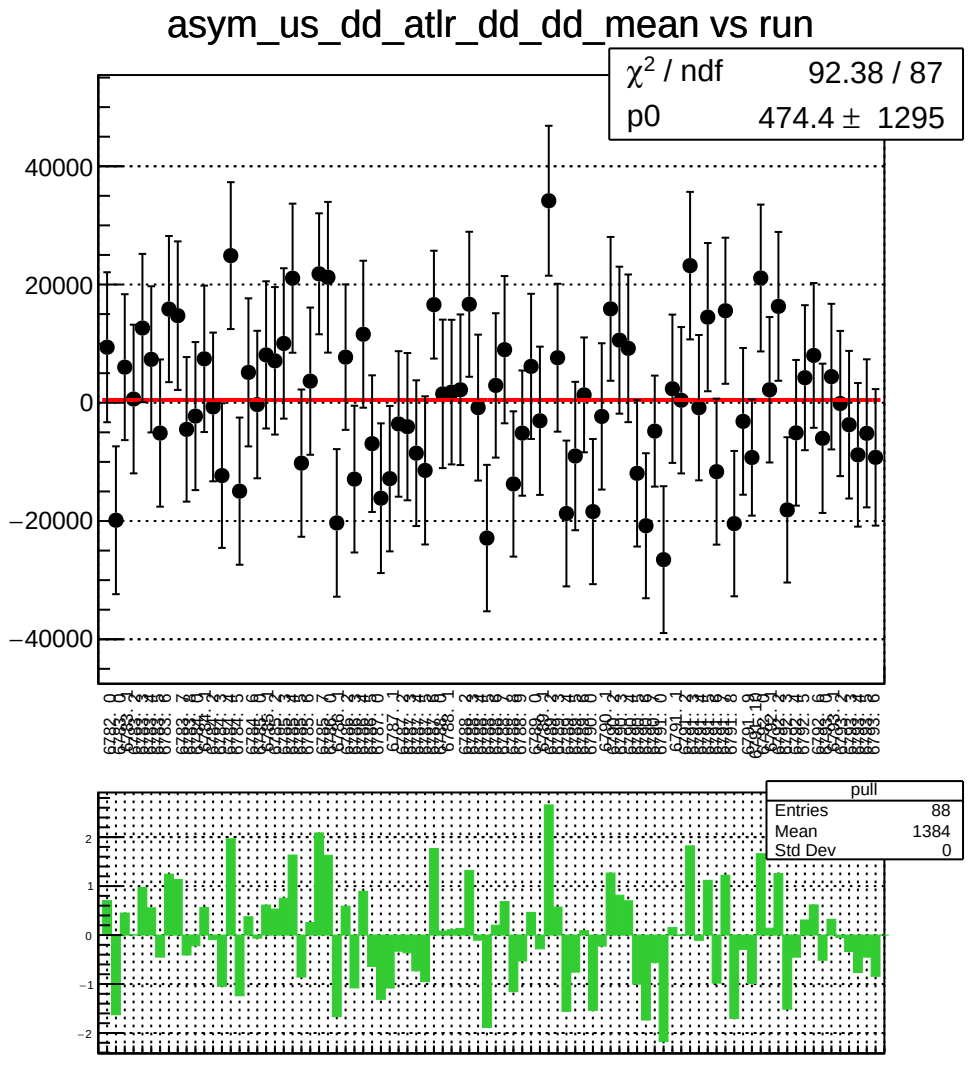

pull1D
Entries 88
Mean −0.007277
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

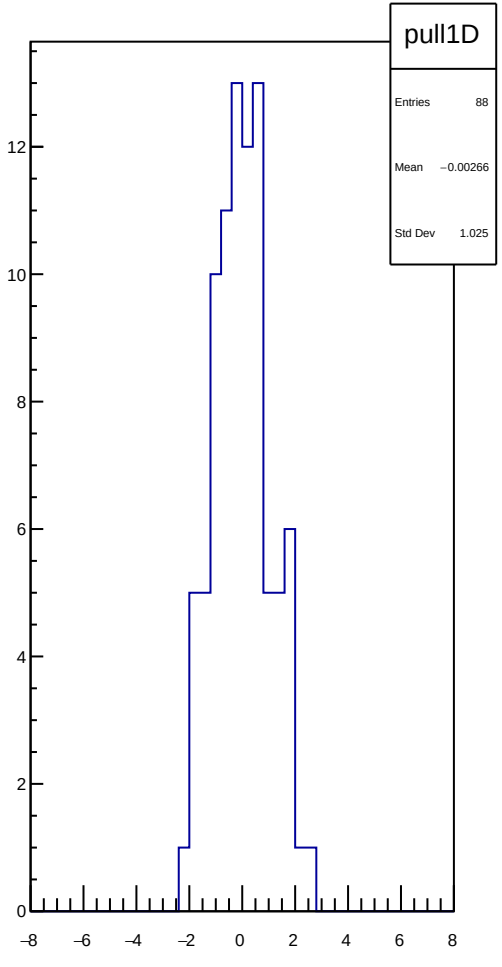

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 90.12 / 87
p0 1075 ± 0.8353
1110
1100
1090
1080
1070
1060
1050

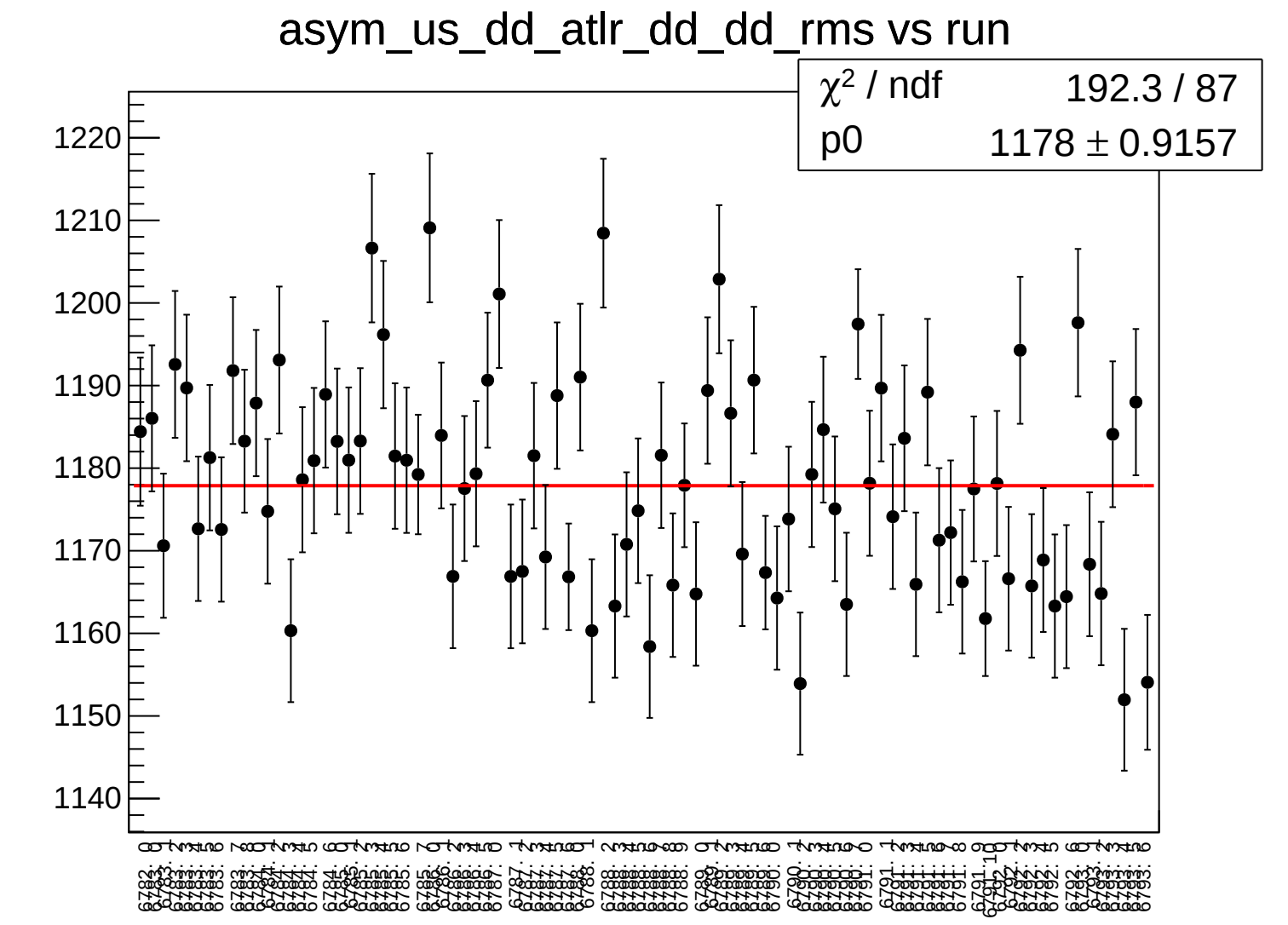

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 58 / 87
p0 −1149 ± 524.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −307.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

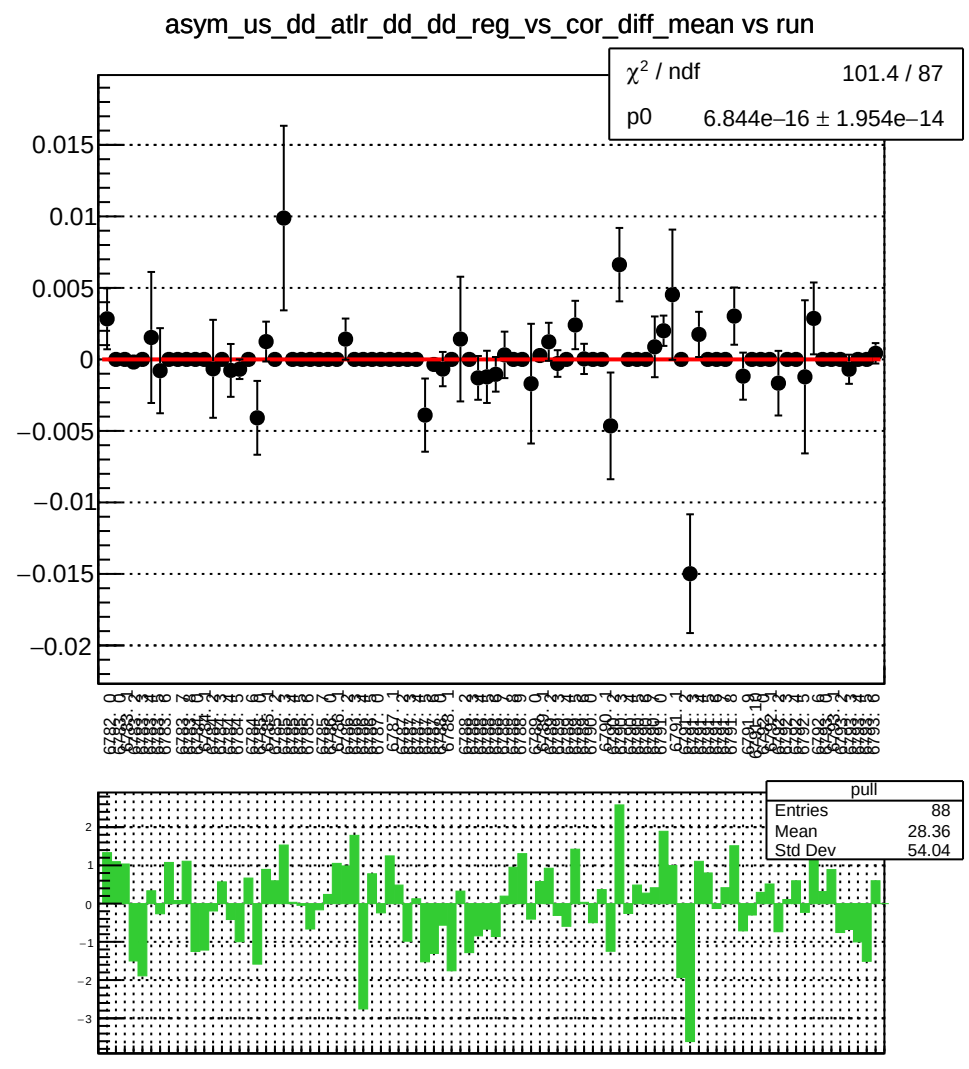

pull1D
Entries 88
Mean −0.008915
Std Dev 0.8118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

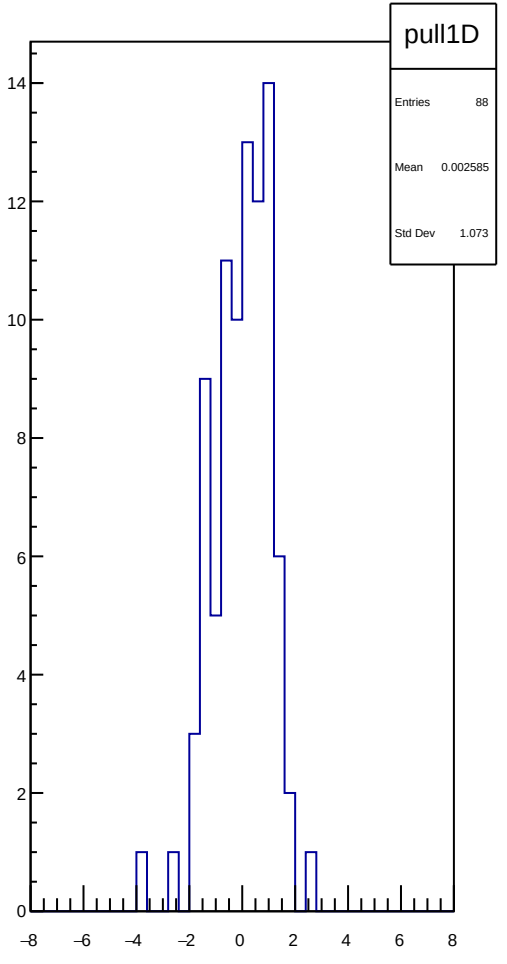

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3776 / 87
p0 476.3 ± 0.3707
540
520
500
480
460
440

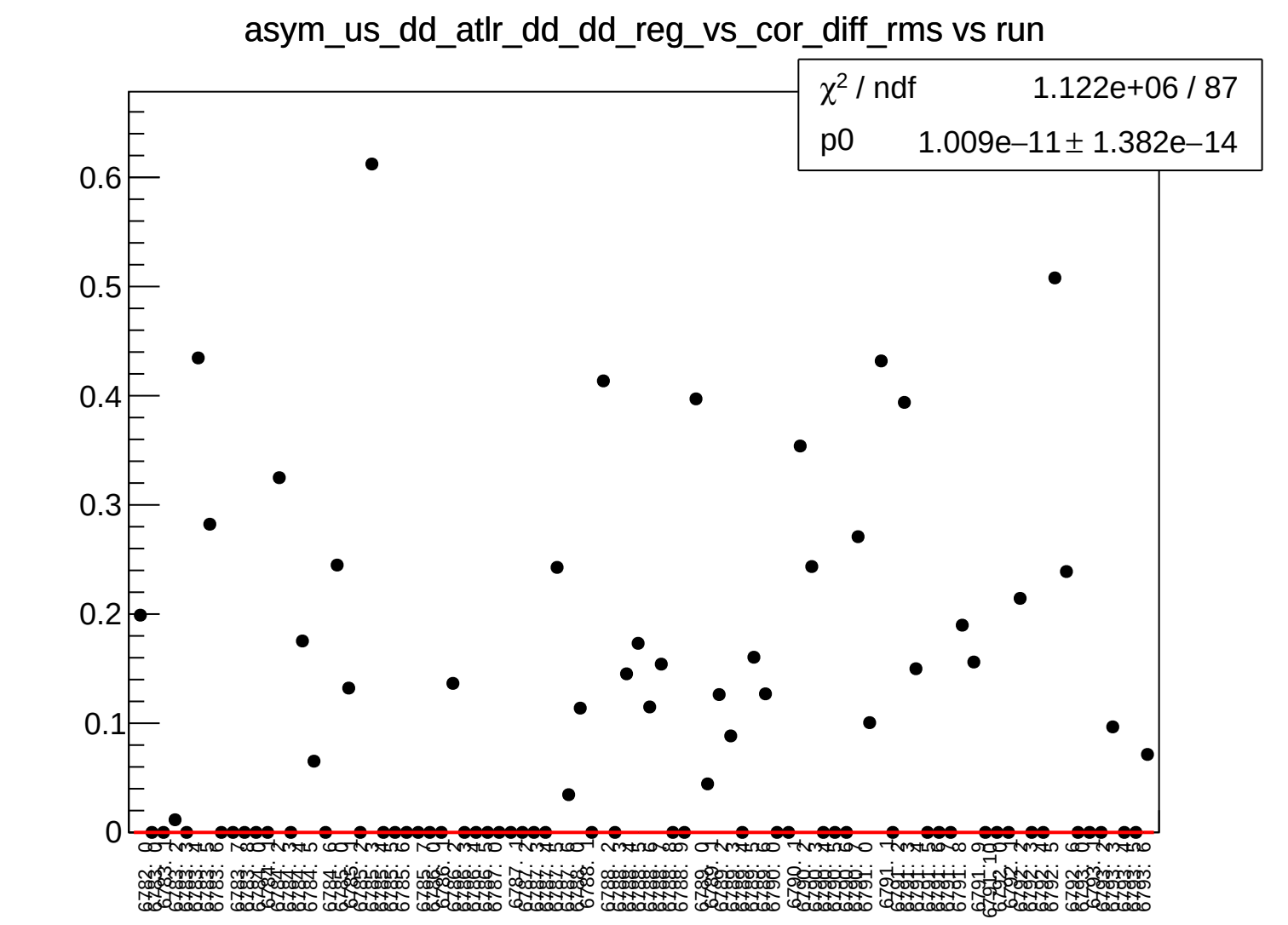

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.38 / 87
p0 474.4 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1384
Std Dev 0
2
1
0
−1
−2

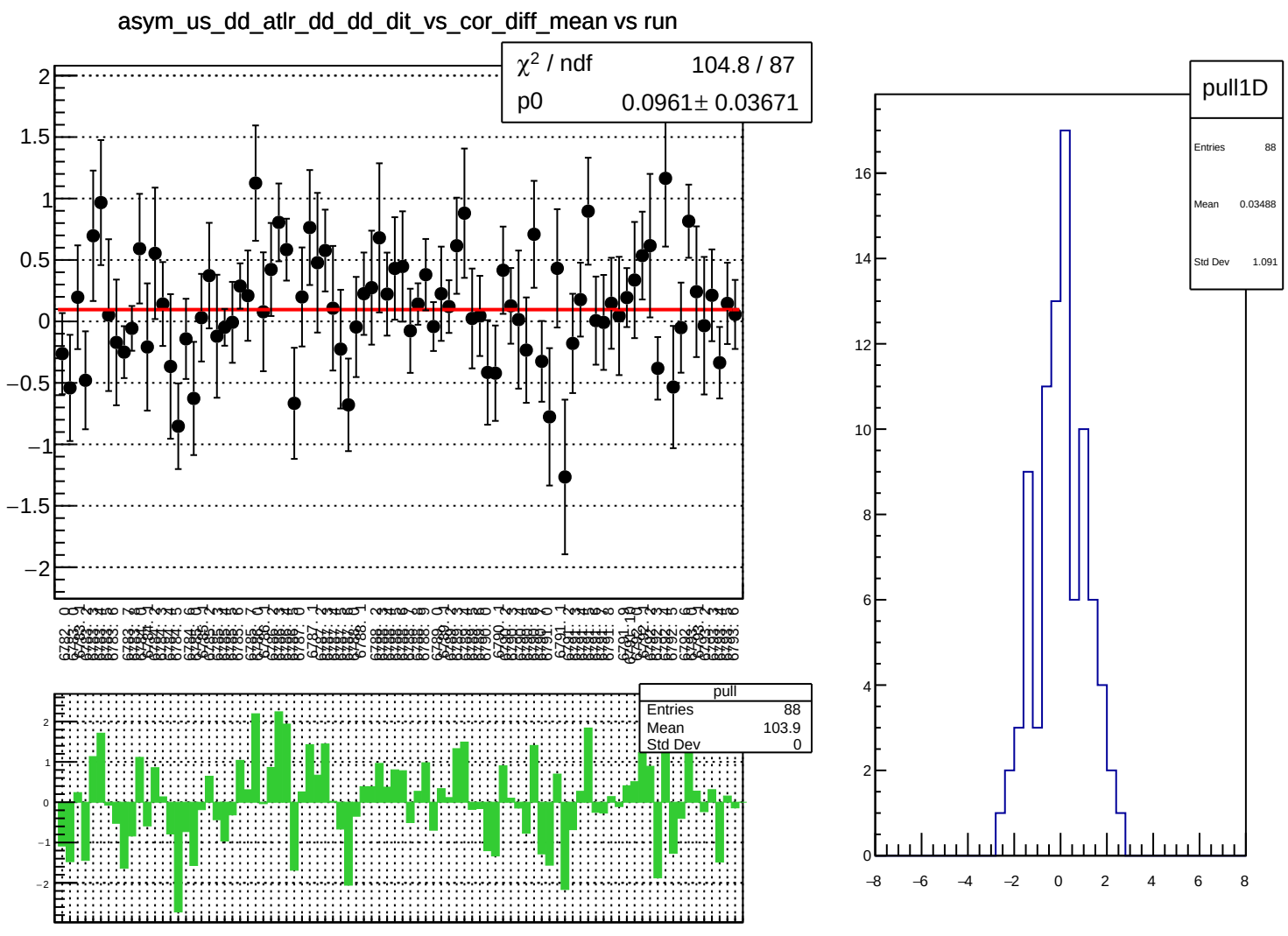

pull1D
Entries 88
Mean −0.00266
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

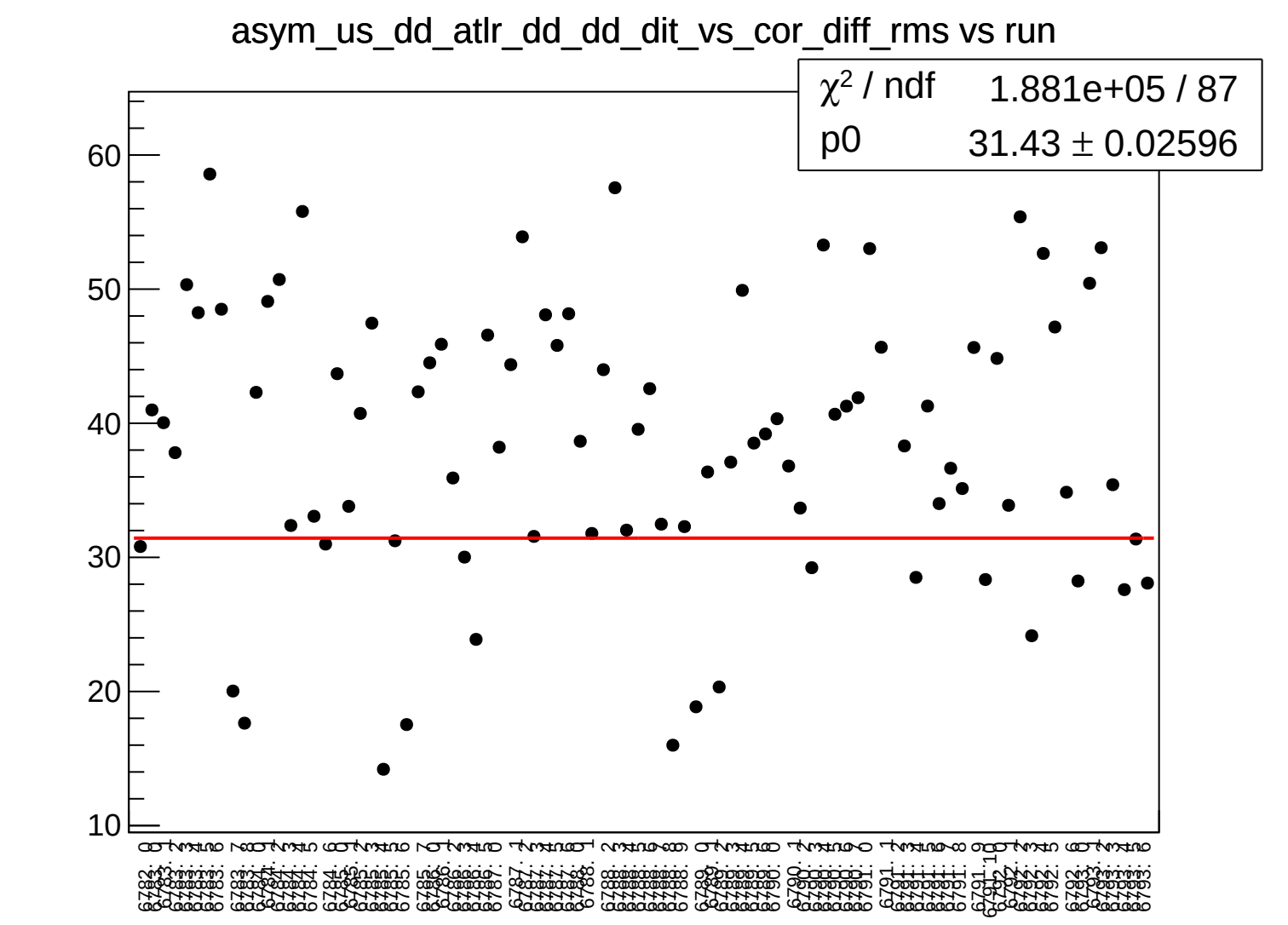

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 192.3 / 87
p0 1178 ± 0.9157
1220
1210
1200
1190
1180
1170
1160
1150
1140

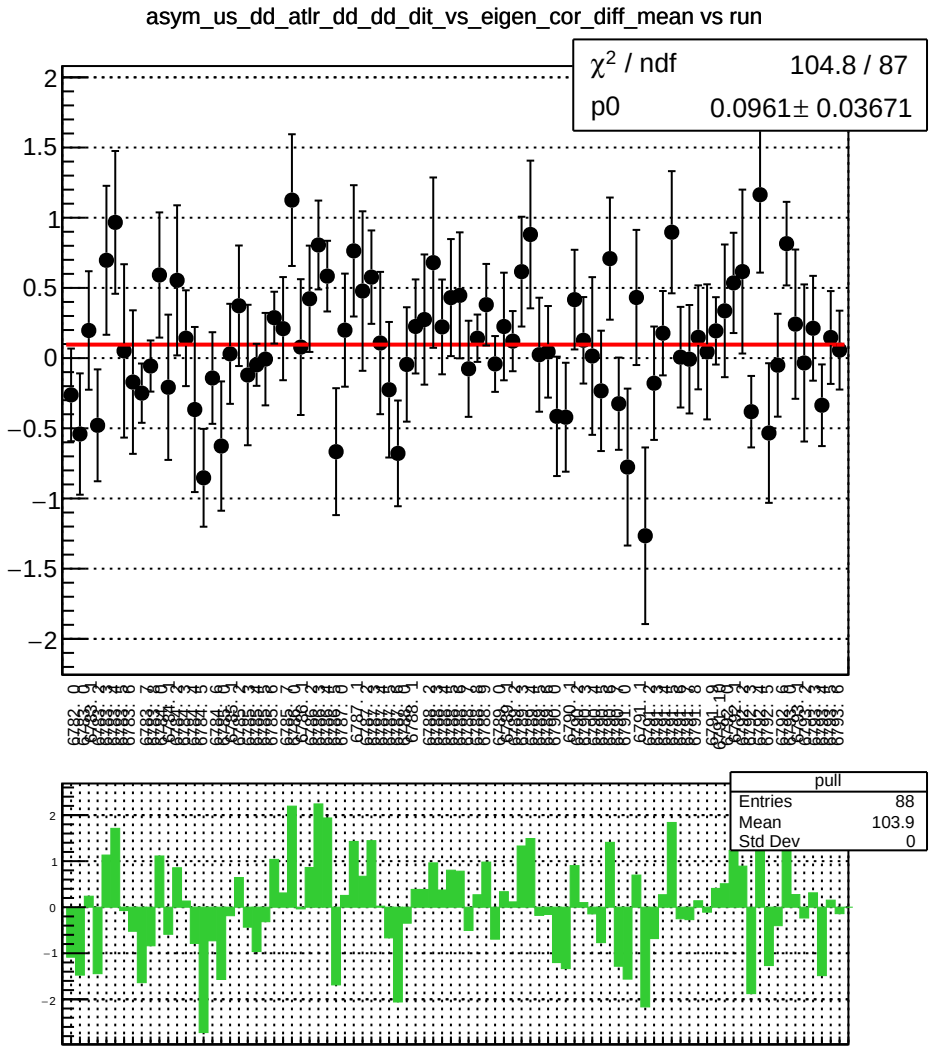

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.4 / 87
p0 6.844e−16 ± 1.954e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 28.36
Std Dev 54.04
2
1
0
−1
−2
−3

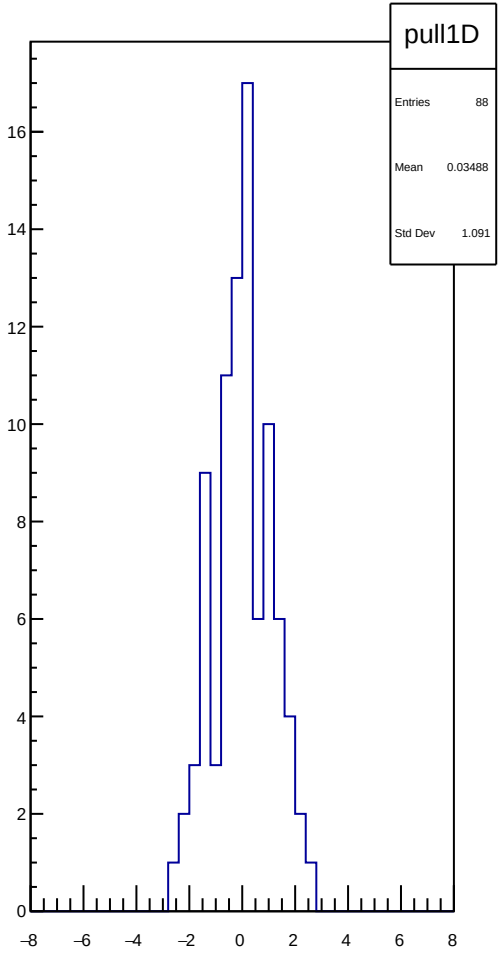

pull1D
Entries 88
Mean 0.002585
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

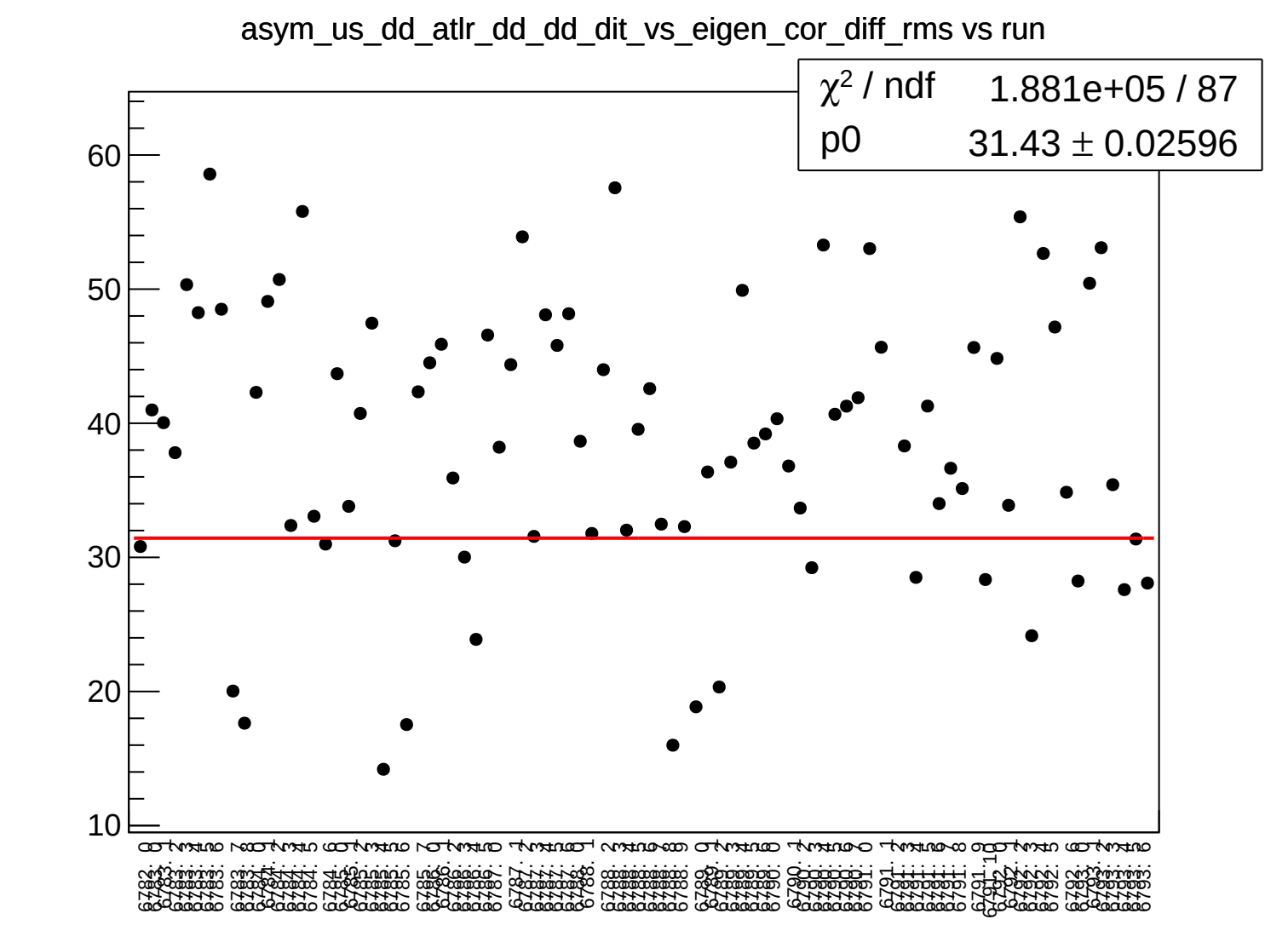

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 87
p0 1.009e−11 ± 1.382e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

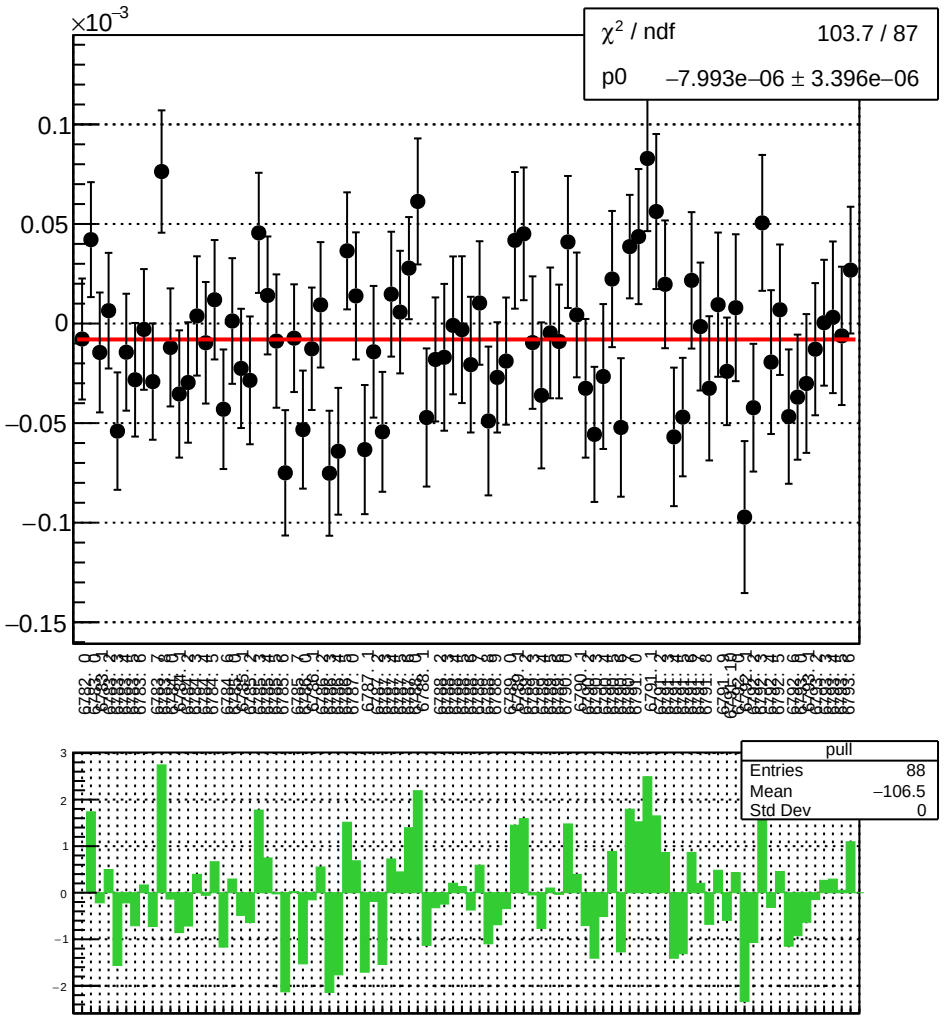

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 0.0961± 0.03671
pull
Entries 88
Mean 103.9
Std Dev 0
pull1D
Entries 88
Mean 0.03488
Std Dev 1.091

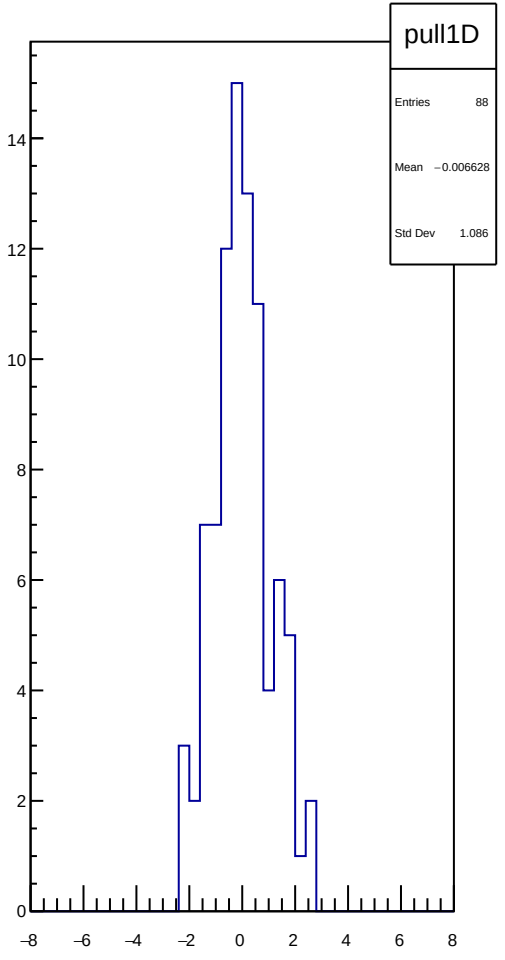

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.881e+05 / 87
p0 31.43 ± 0.02596
60
50
40
30
20
10

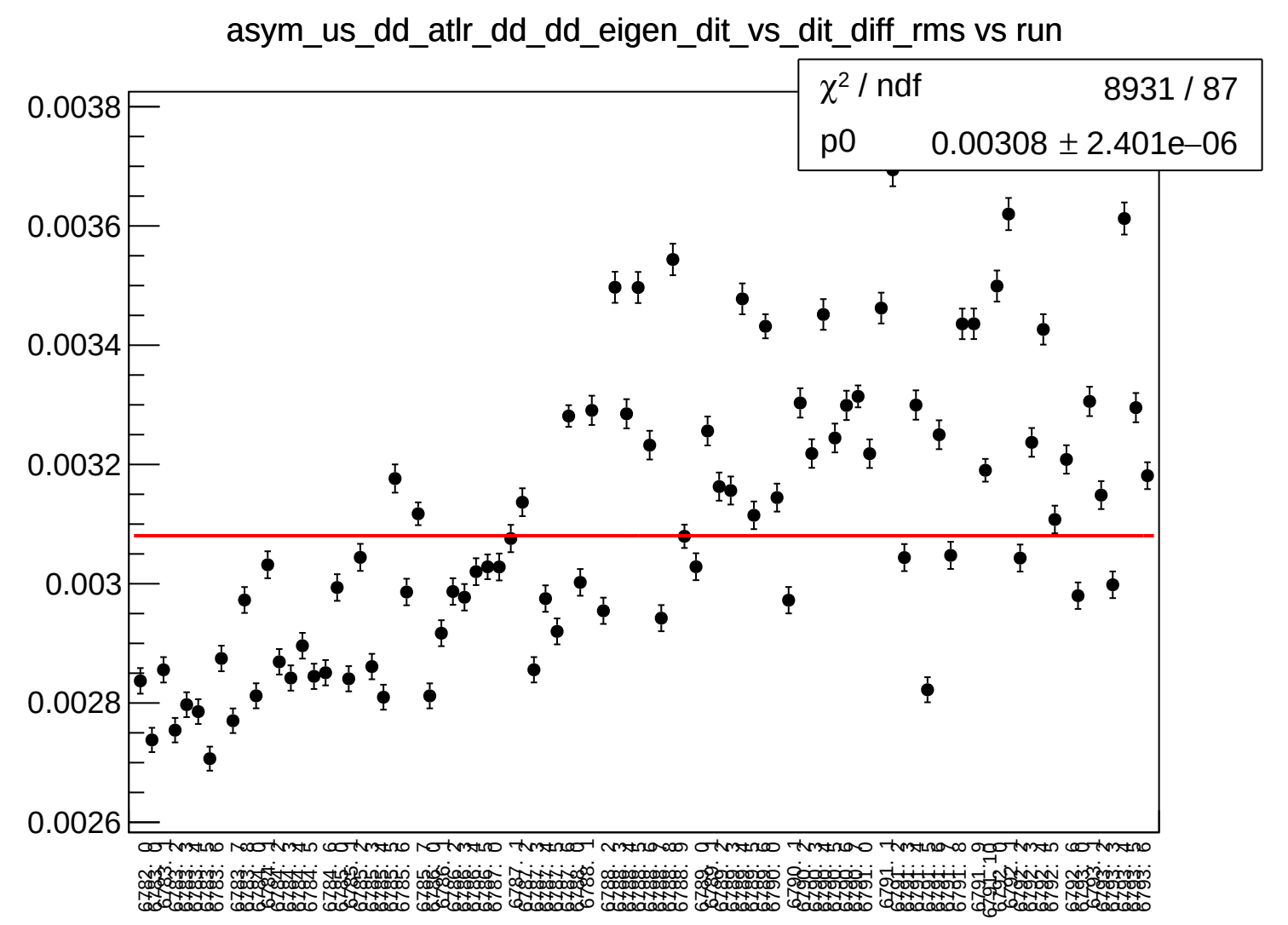

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 0.0961± 0.03671
pull
Entries 88
Mean 103.9
Std Dev 0

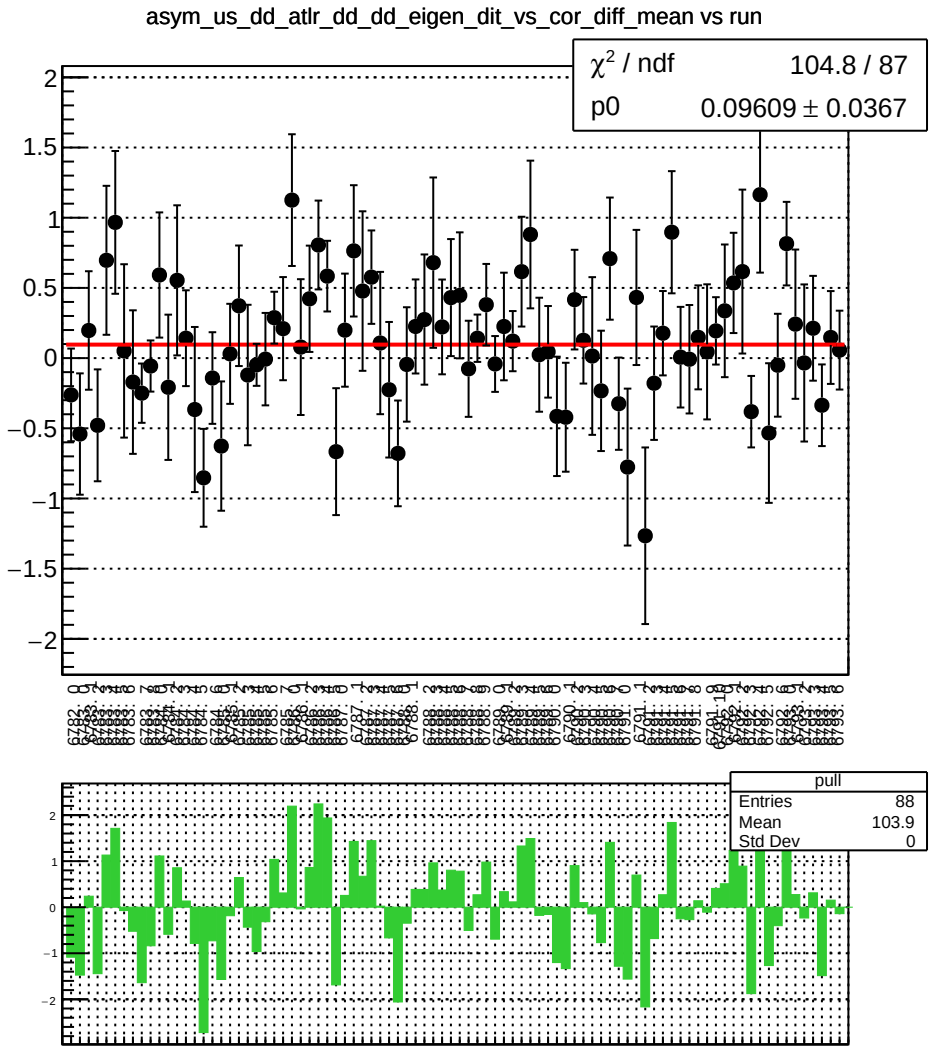

pull1D
Entries 88
Mean 0.03488
Std Dev 1.091

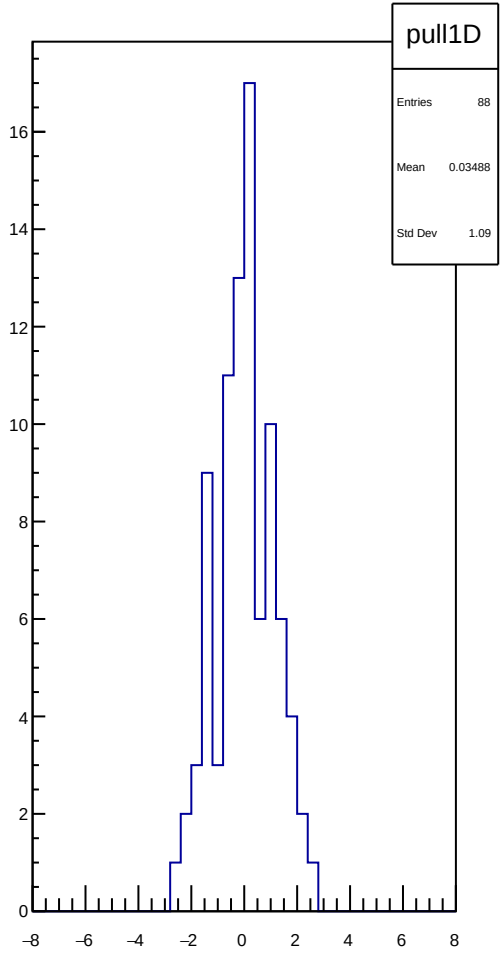

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.881e+05 / 87
p0 31.43 ± 0.02596
60
50
40
30
20
10

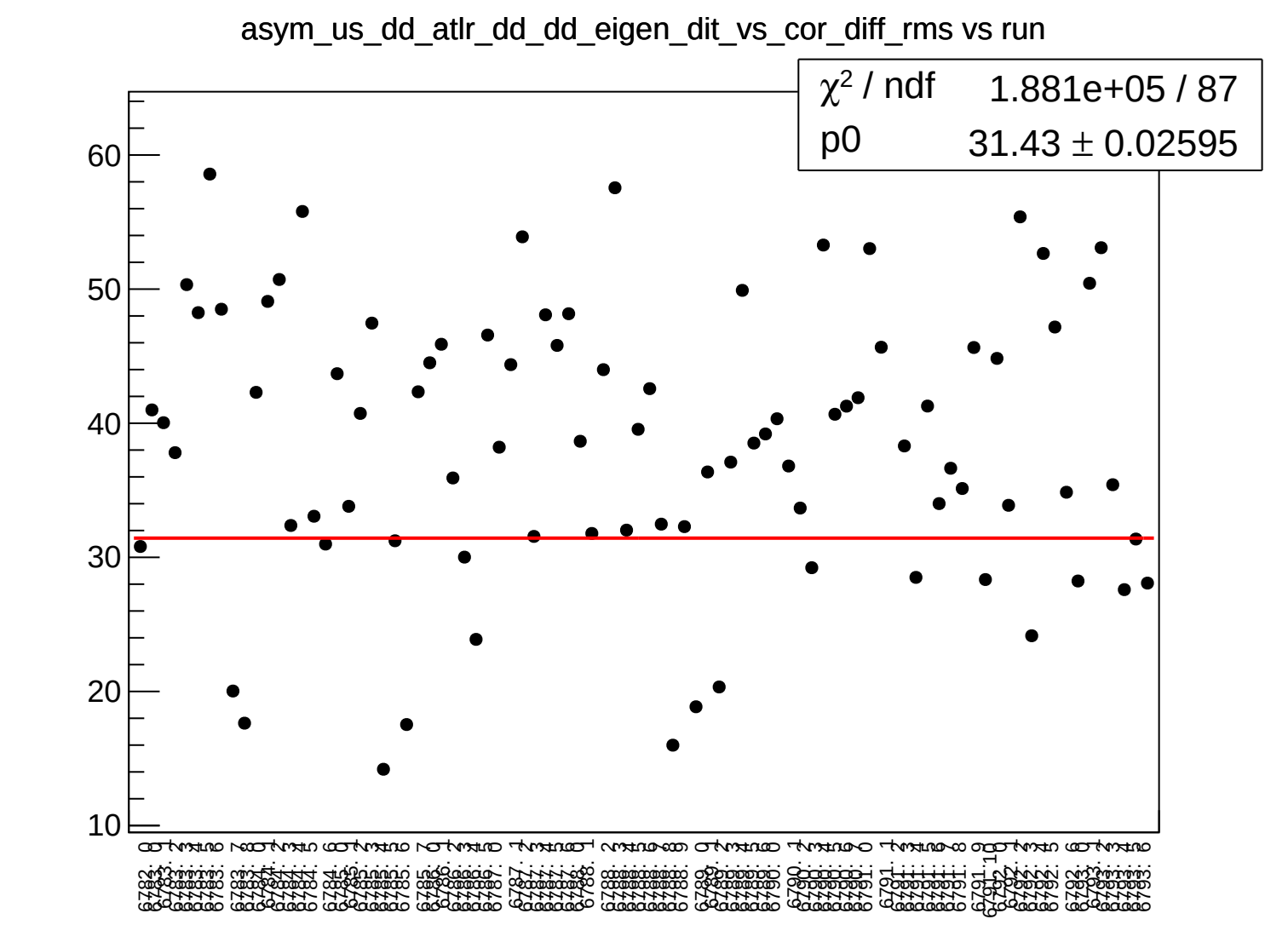

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.7 / 87
p0 −7.993e−06 ± 3.396e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −106.5
Std Dev 0
3
2
1
0
−1
−2

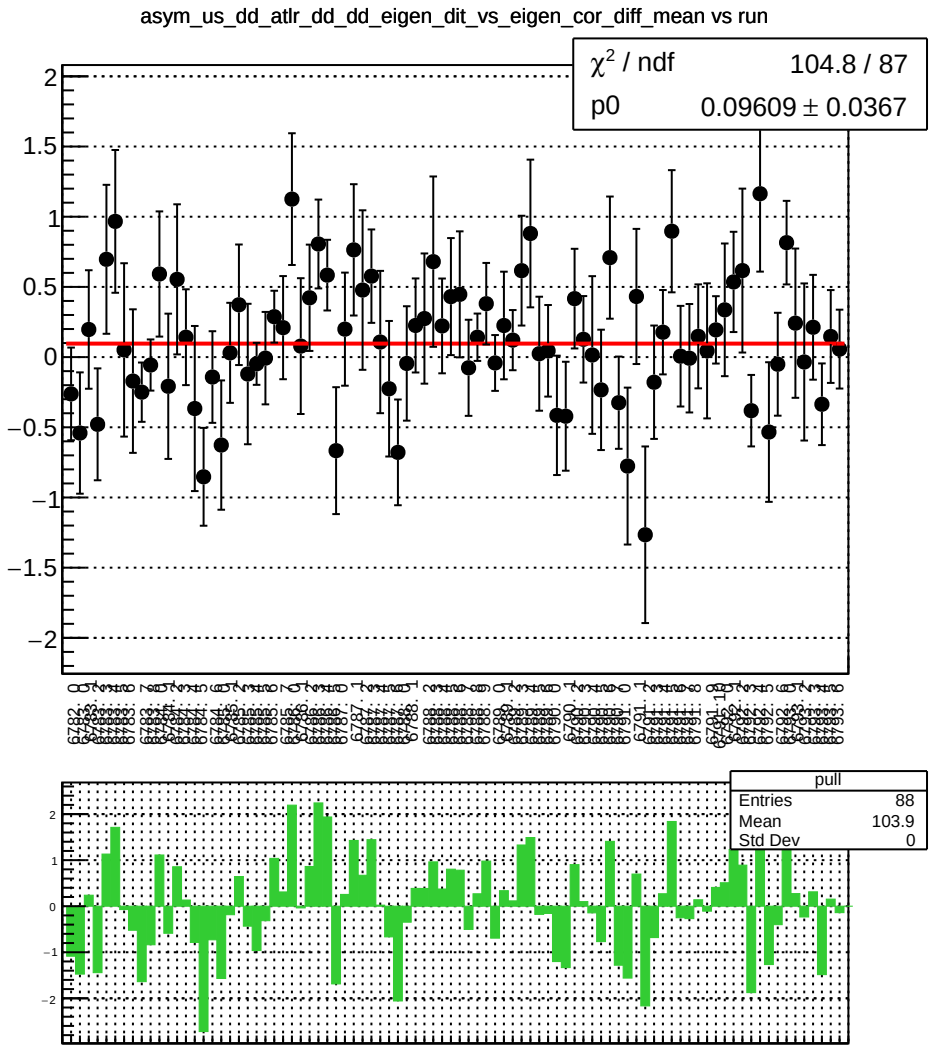

pull1D
Entries 88
Mean −0.006628
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

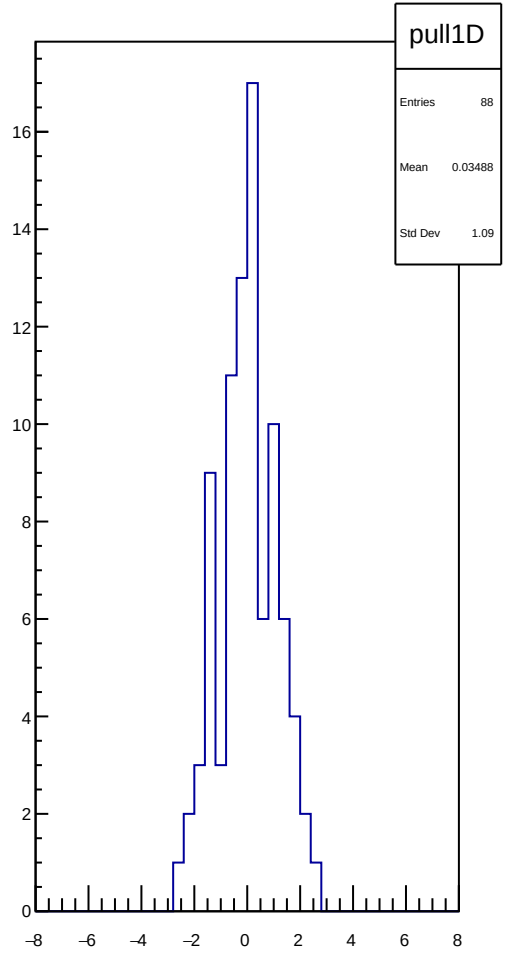

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8931 / 87
p0 0.00308 ± 2.401e–06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

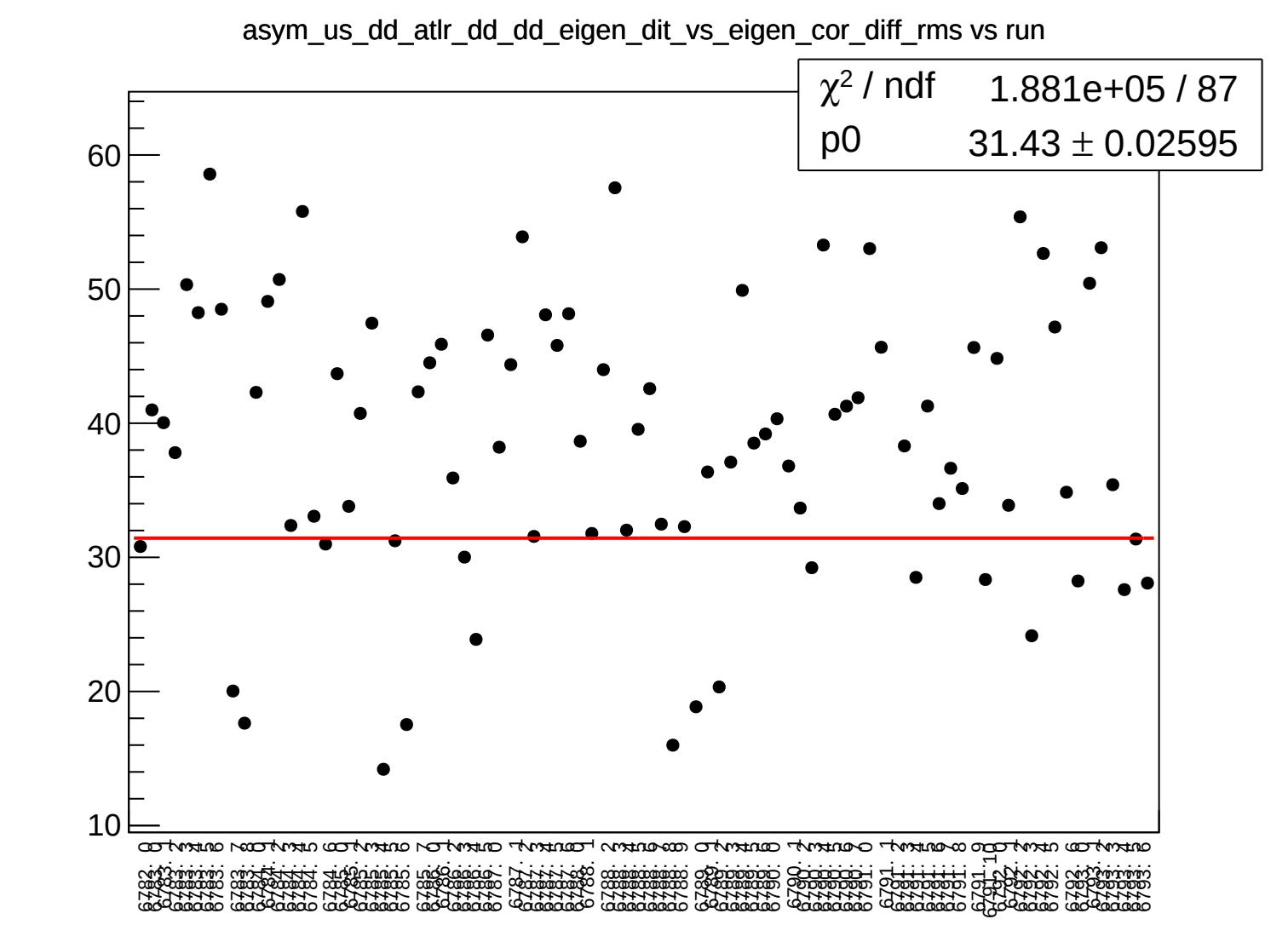

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 0.09609 ± 0.0367
pull
Entries 88
Mean 103.9
Std Dev 0

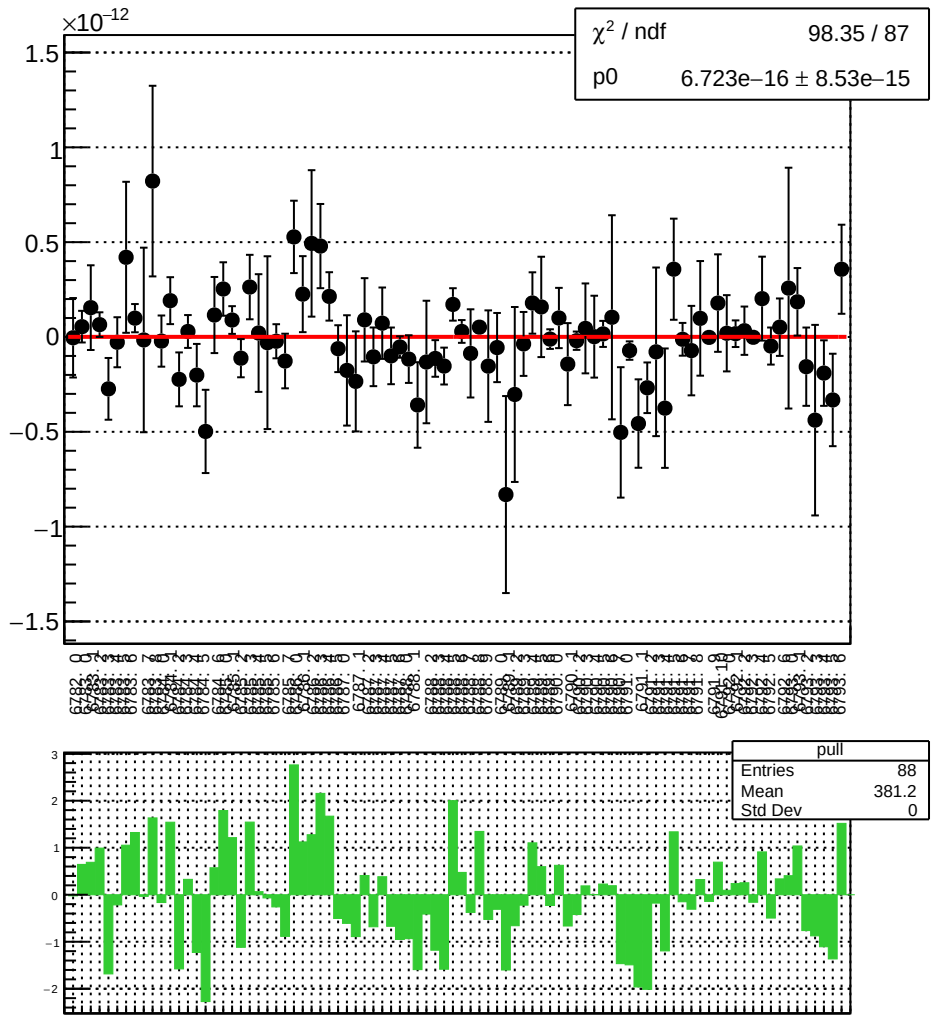

pull1D
Entries 88
Mean 0.03488
Std Dev 1.09

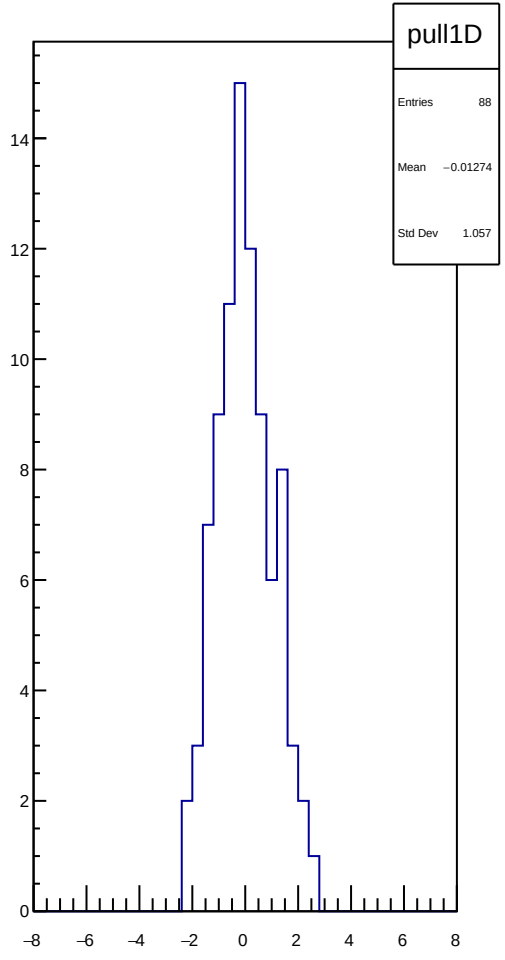

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.881e+05 / 87
p0 31.43 ± 0.02595
60
50
40
30
20
10

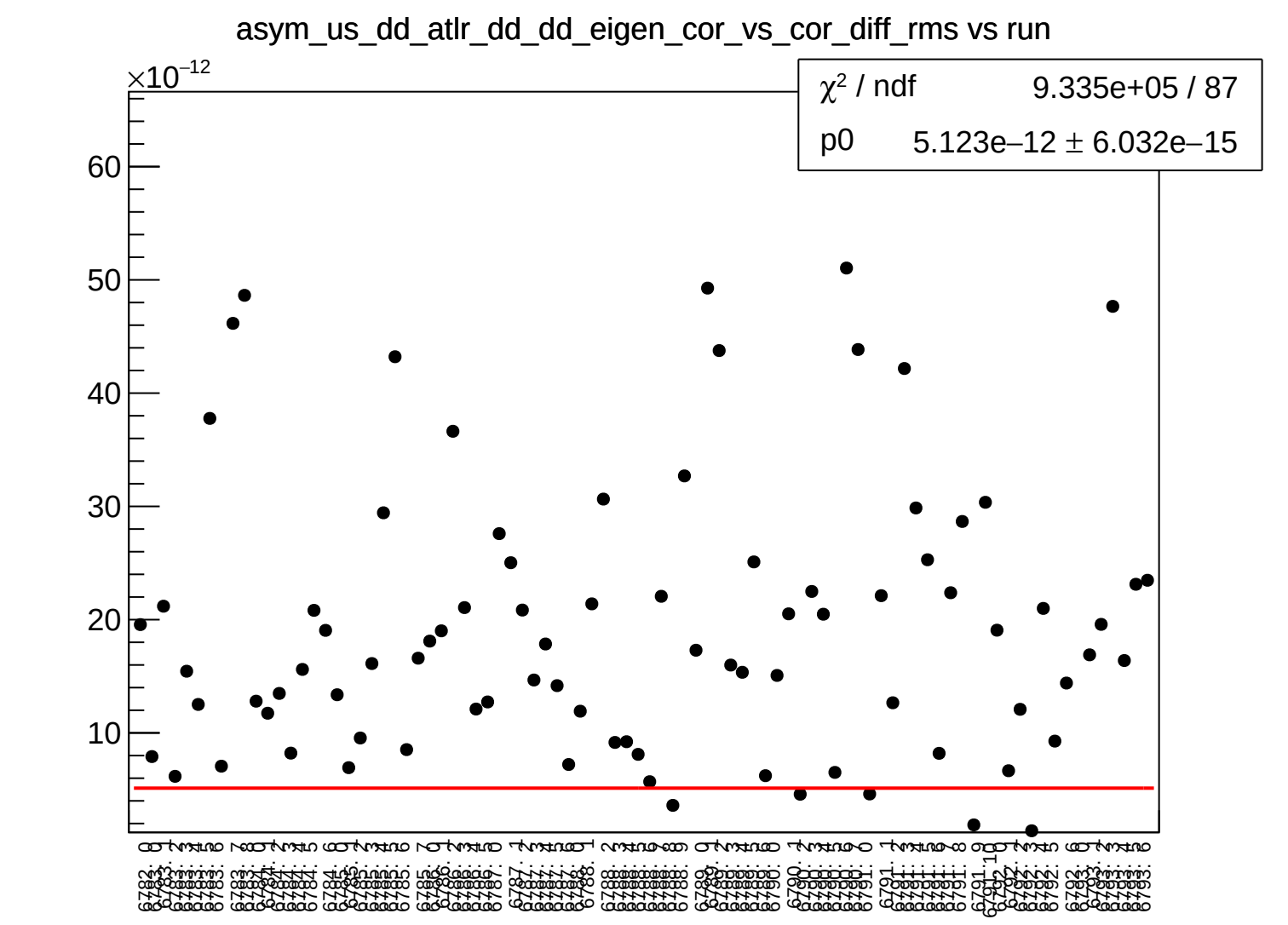

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 87
p0 0.09609 ± 0.0367
pull
Entries 88
Mean 103.9
Std Dev 0

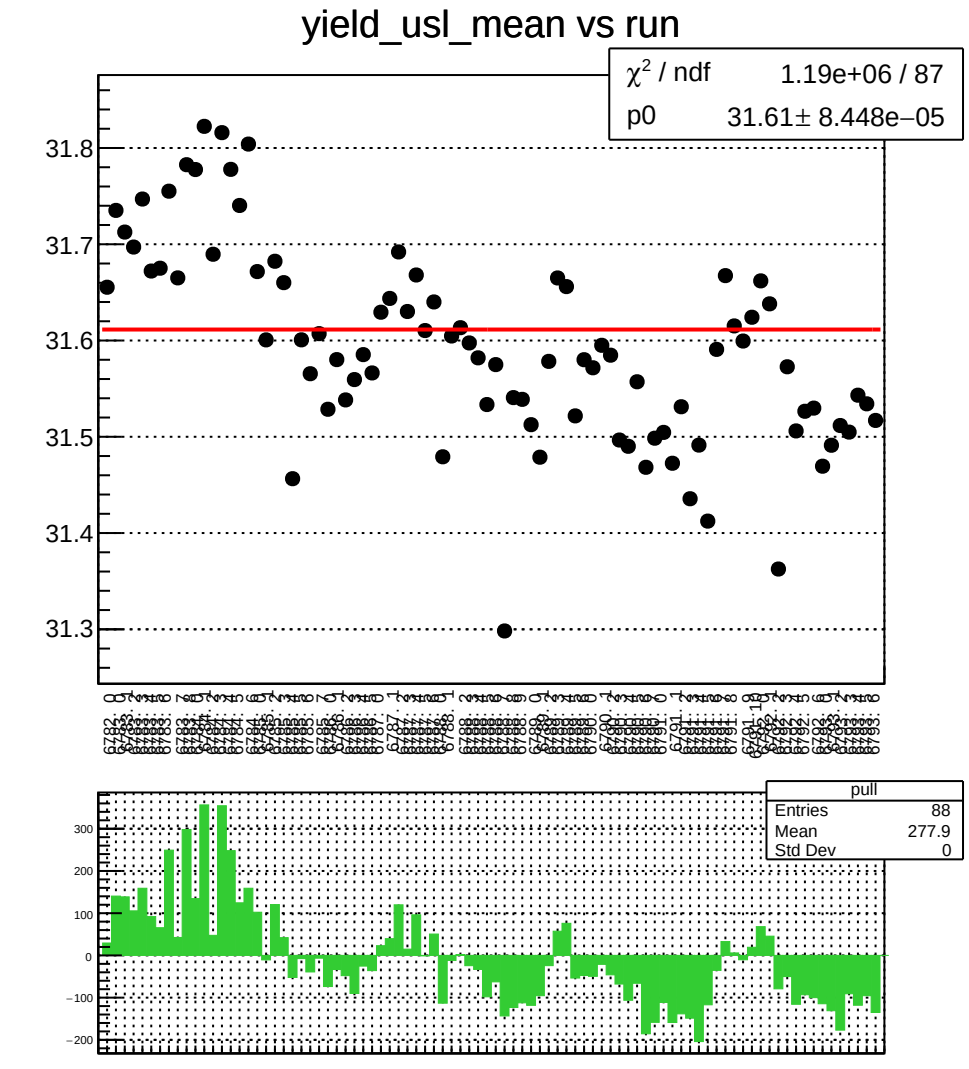

pull1D
Entries 88
Mean 0.03488
Std Dev 1.09

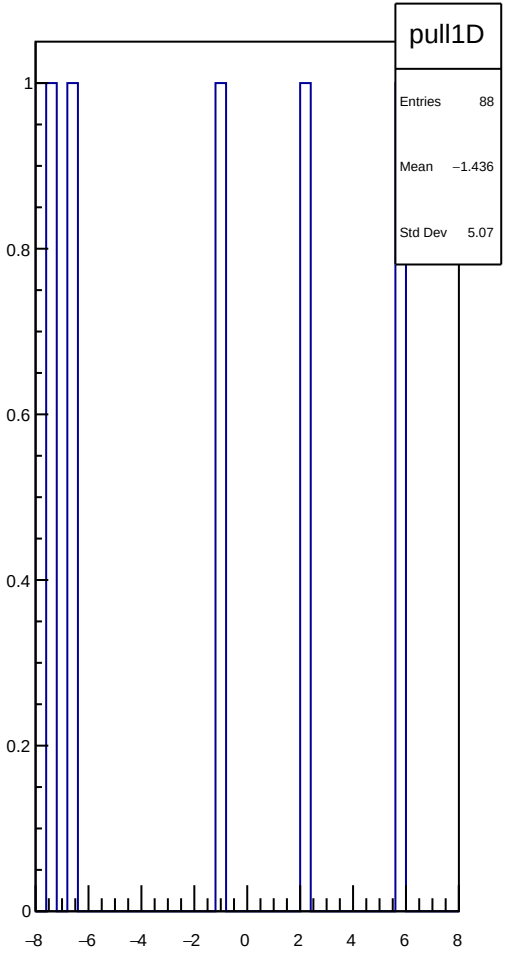

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.881e+05 / 87
p0 31.43 ± 0.02595
60
50
40
30
20
10

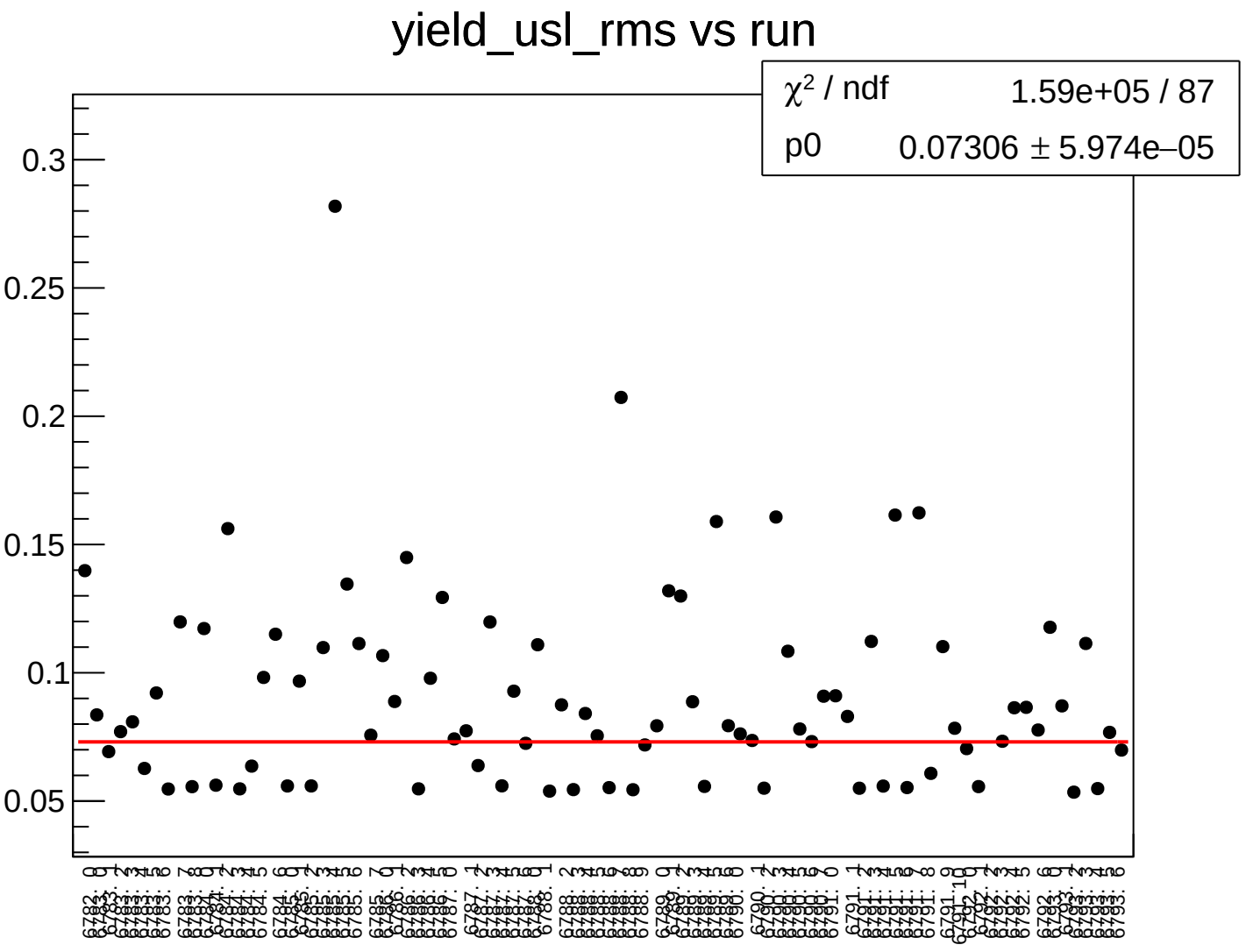

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 98.35 / 87
p0 6.723e−16 ± 8.53e−15
pull
Entries 88
Mean 381.2
Std Dev 0

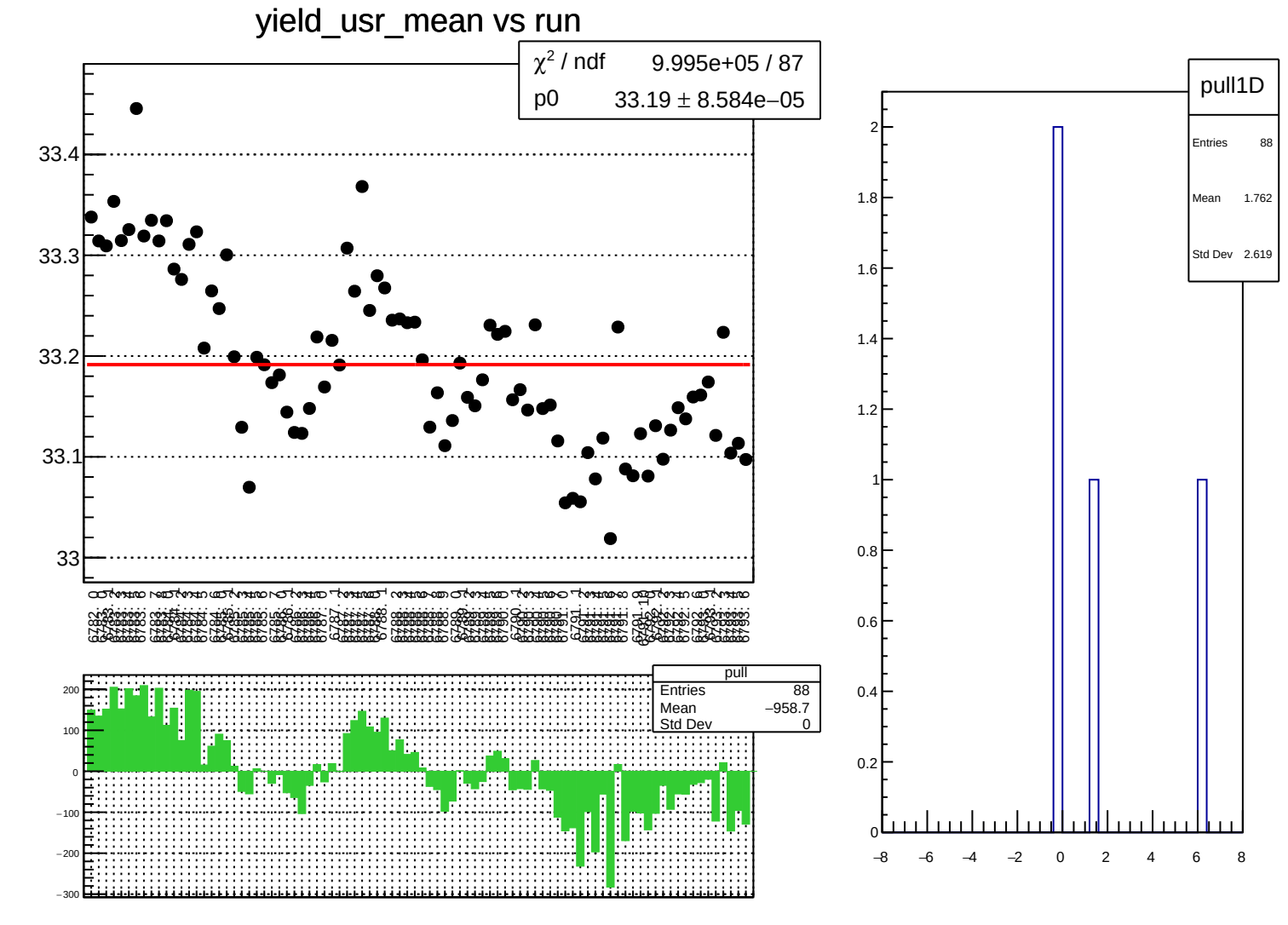

pull1D
Entries 88
Mean −0.01274
Std Dev 1.057

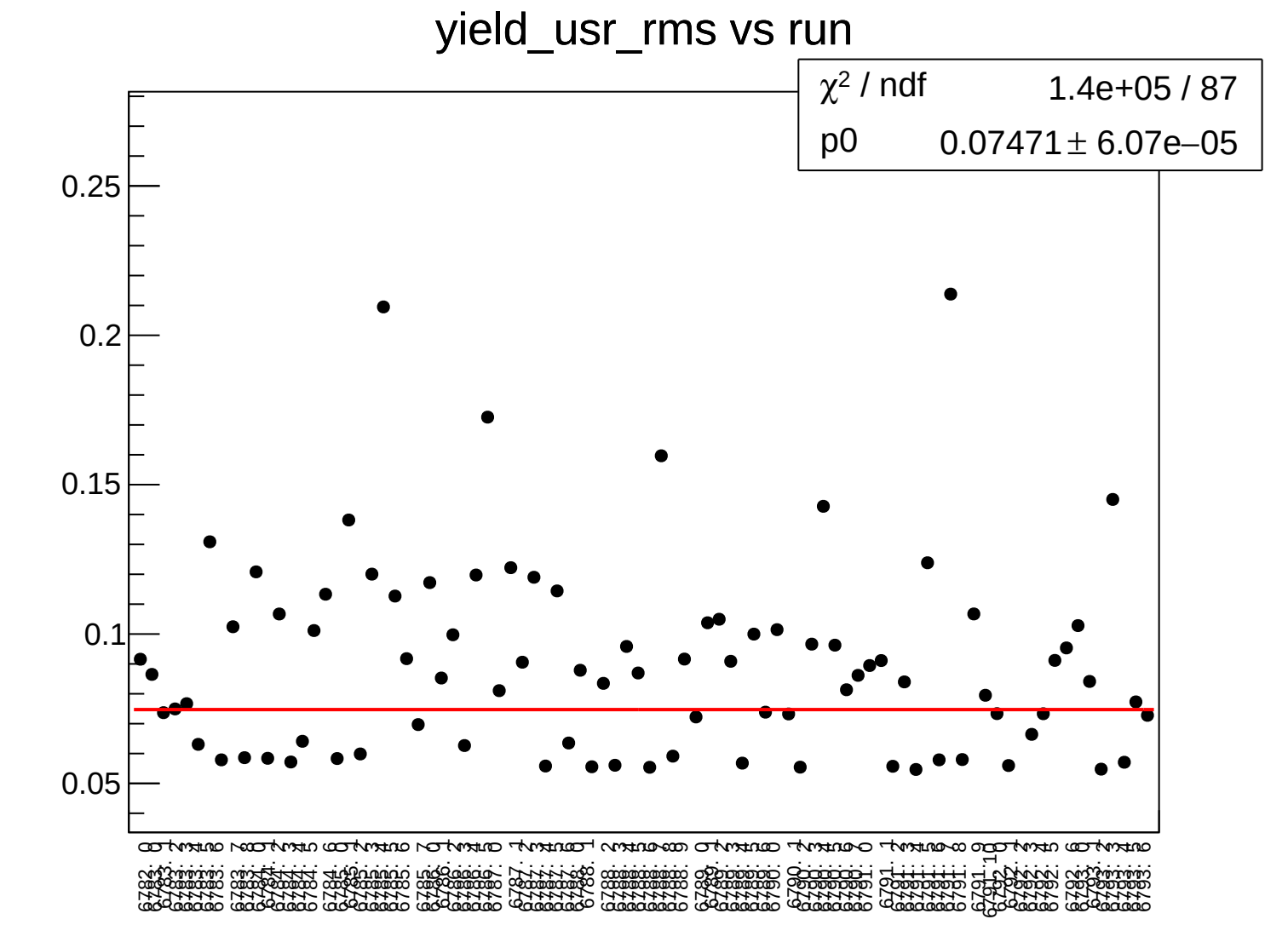

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.335e+05 / 87
p0 5.123e−12 ± 6.032e−15
60
50
40
30
20
10

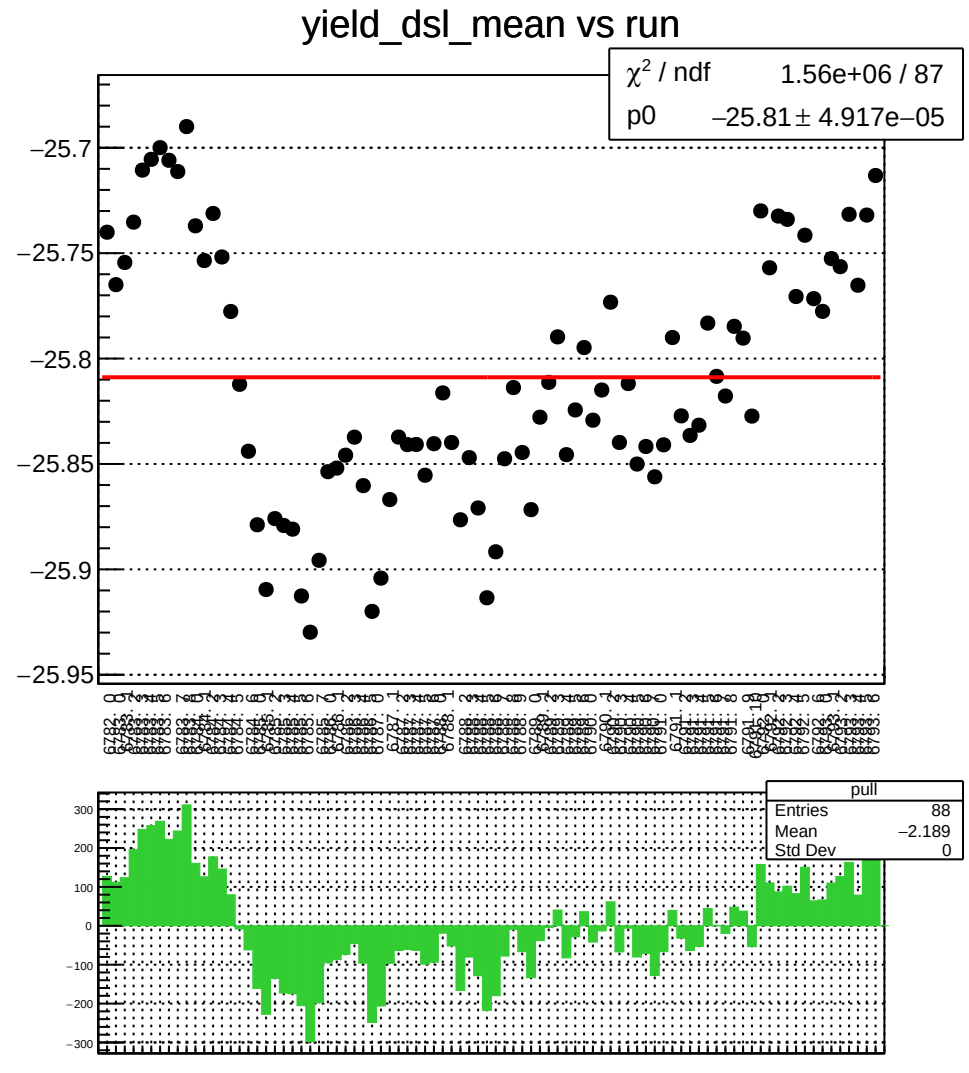

yield_usl_mean vs run
χ² / ndf 1.19e+06 / 87
p0 31.61± 8.448e−05
31.8
31.7
31.6
31.5
31.4
31.3
pull
Entries 88
Mean 277.9
Std Dev 0
300
200
100
0
−100
−200

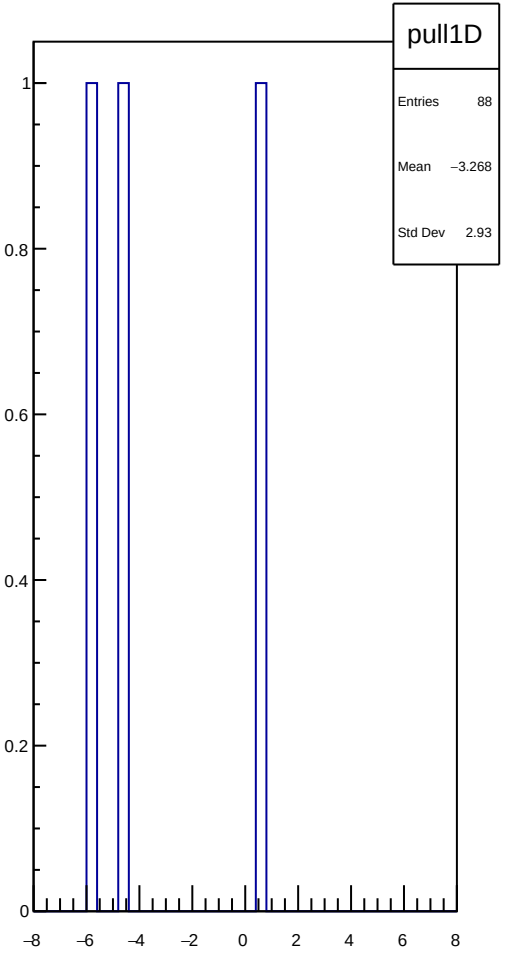

pull1D
Entries 88
Mean −1.436
Std Dev 5.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

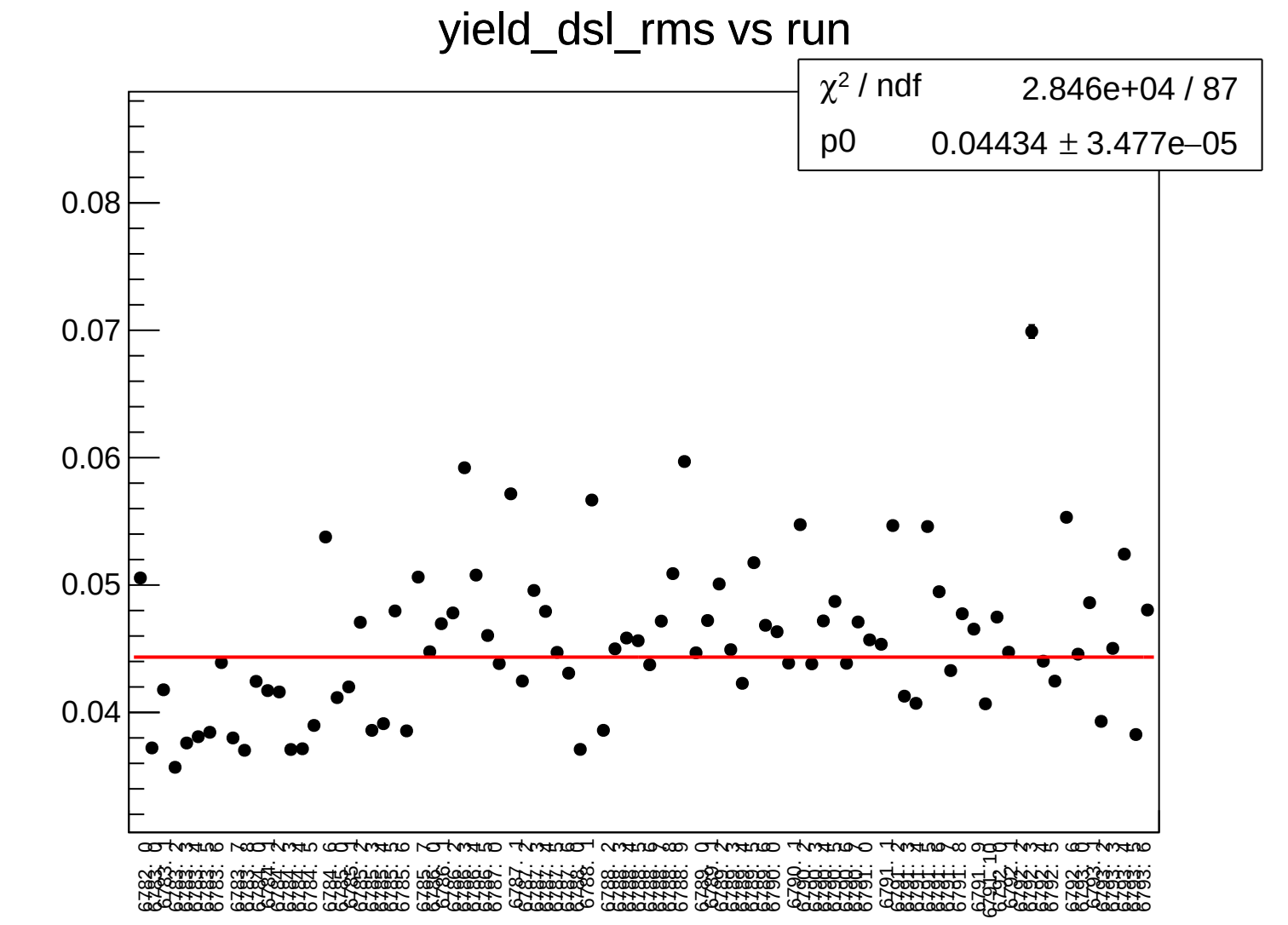

yield_usl_rms vs run
χ² / ndf 1.59e+05 / 87
p0 0.07306 ± 5.974e−05
0.3
0.25
0.2
0.15
0.1
0.05

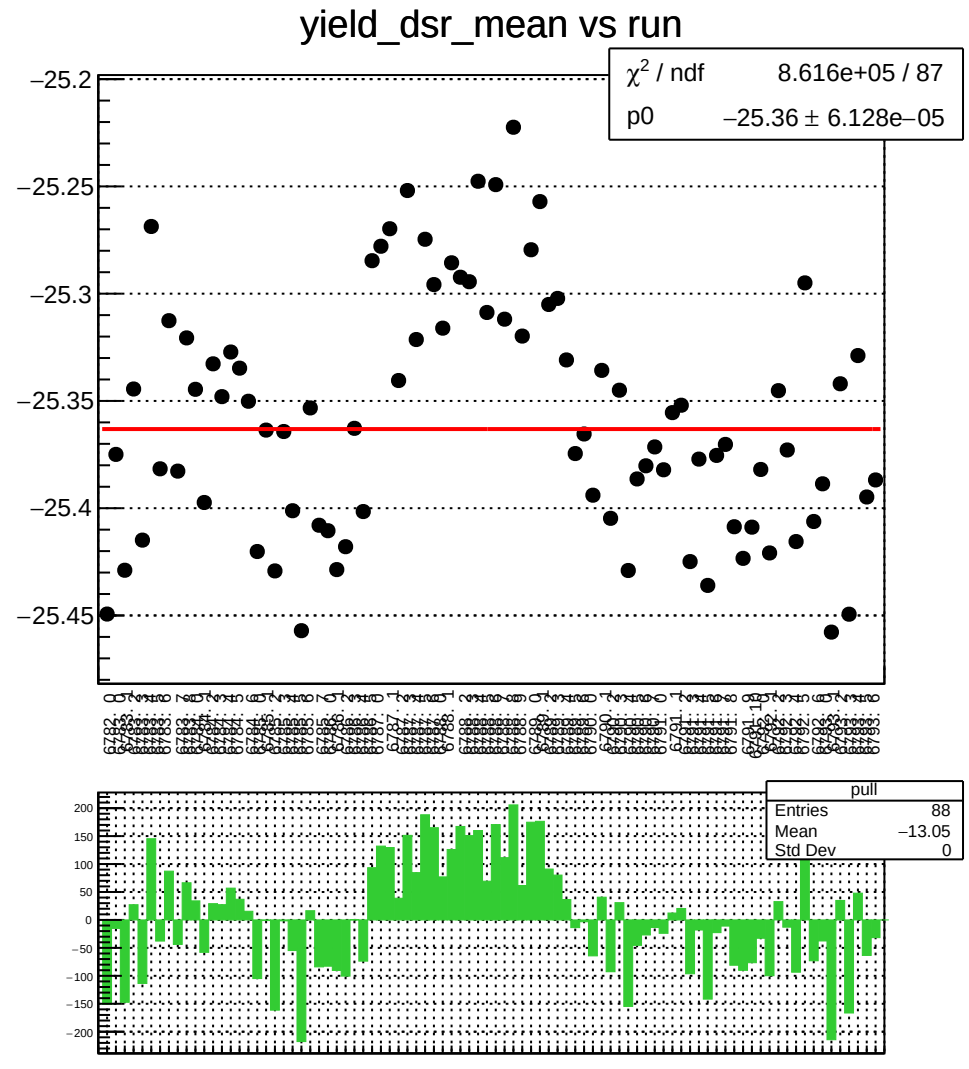

yield_usr_mean vs run
χ² / ndf 9.995e+05 / 87
p0 33.19 ± 8.584e−05
33.4
33.3
33.2
33.1
33
pull
Entries 88
Mean −958.7
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean 1.762
Std Dev 2.619
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

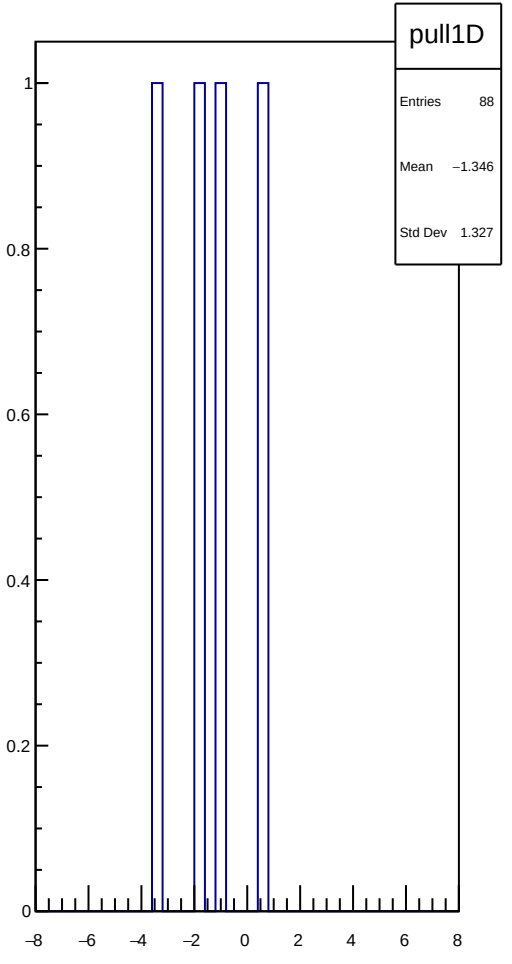

yield_usr_rms vs run
χ² / ndf 1.4e+05 / 87
p0 0.07471 ± 6.07e−05
0.25
0.2
0.15
0.1
0.05

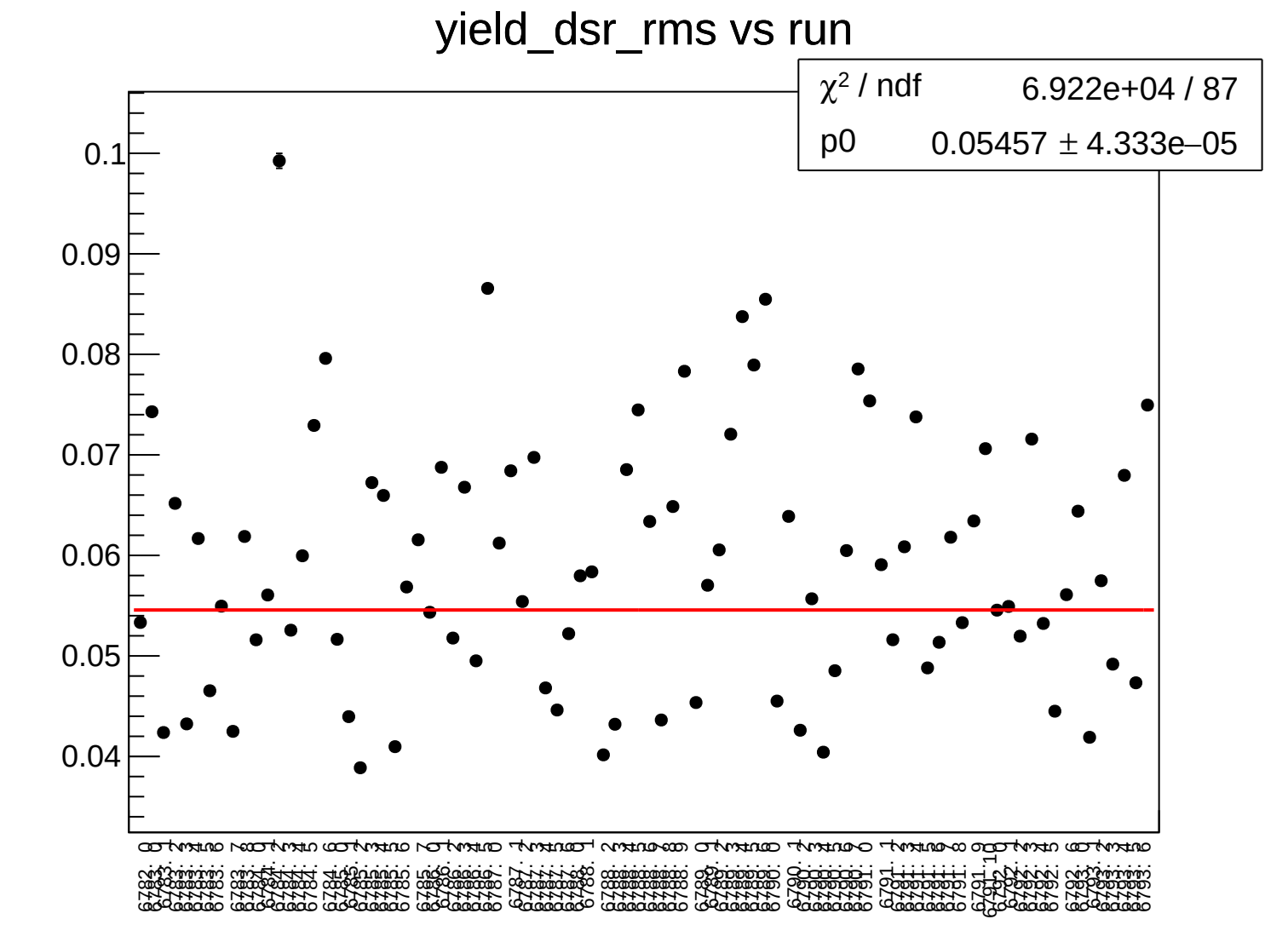

yield_dsl_mean vs run
χ² / ndf 1.56e+06 / 87
p0 −25.81 ± 4.917e−05
−25.7
−25.75
−25.8
−25.85
−25.9
−25.95
pull
Entries 88
Mean −2.189
Std Dev 0
300
200
100
0
−100
−200
−300

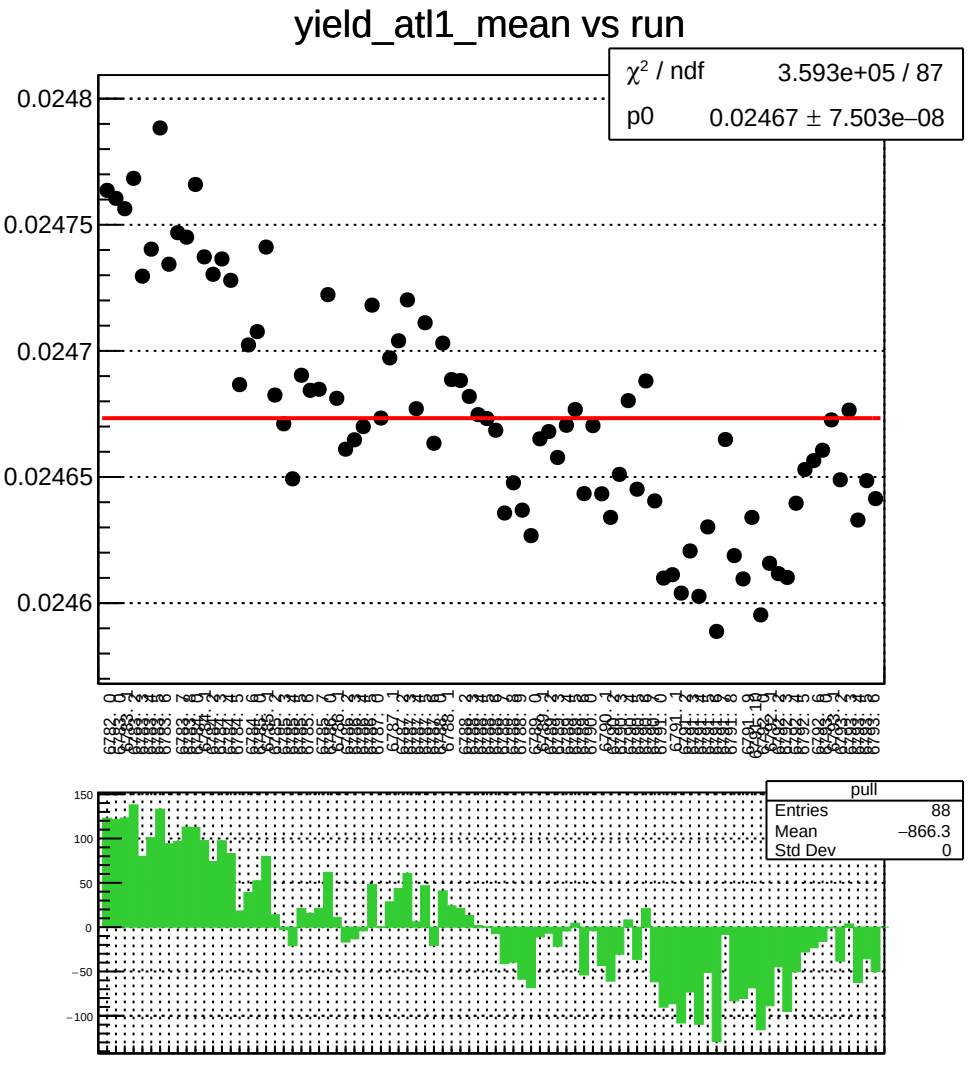

pull1D
Entries 88
Mean −3.268
Std Dev 2.93
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

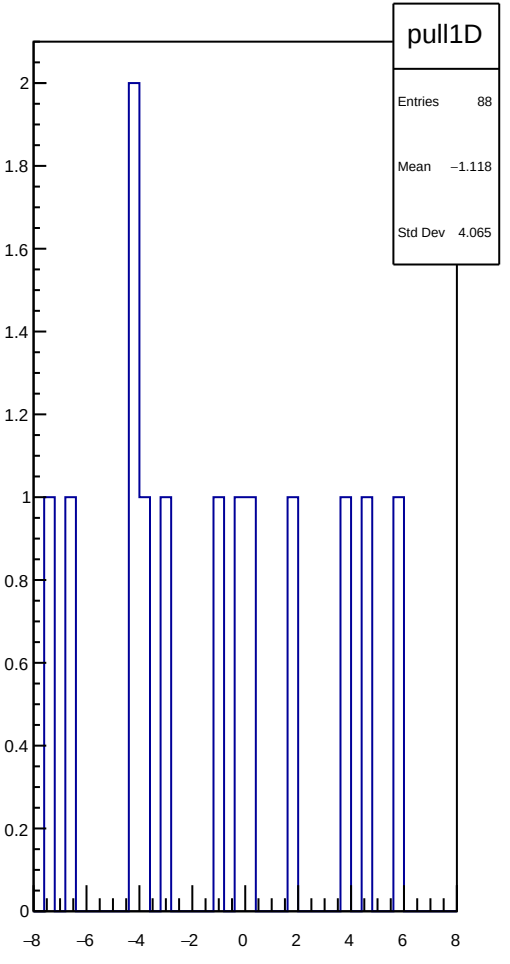

yield_dsl_rms vs run
χ² / ndf 2.846e+04 / 87
p0 0.04434 ± 3.477e−05
0.08
0.07
0.06
0.05
0.04

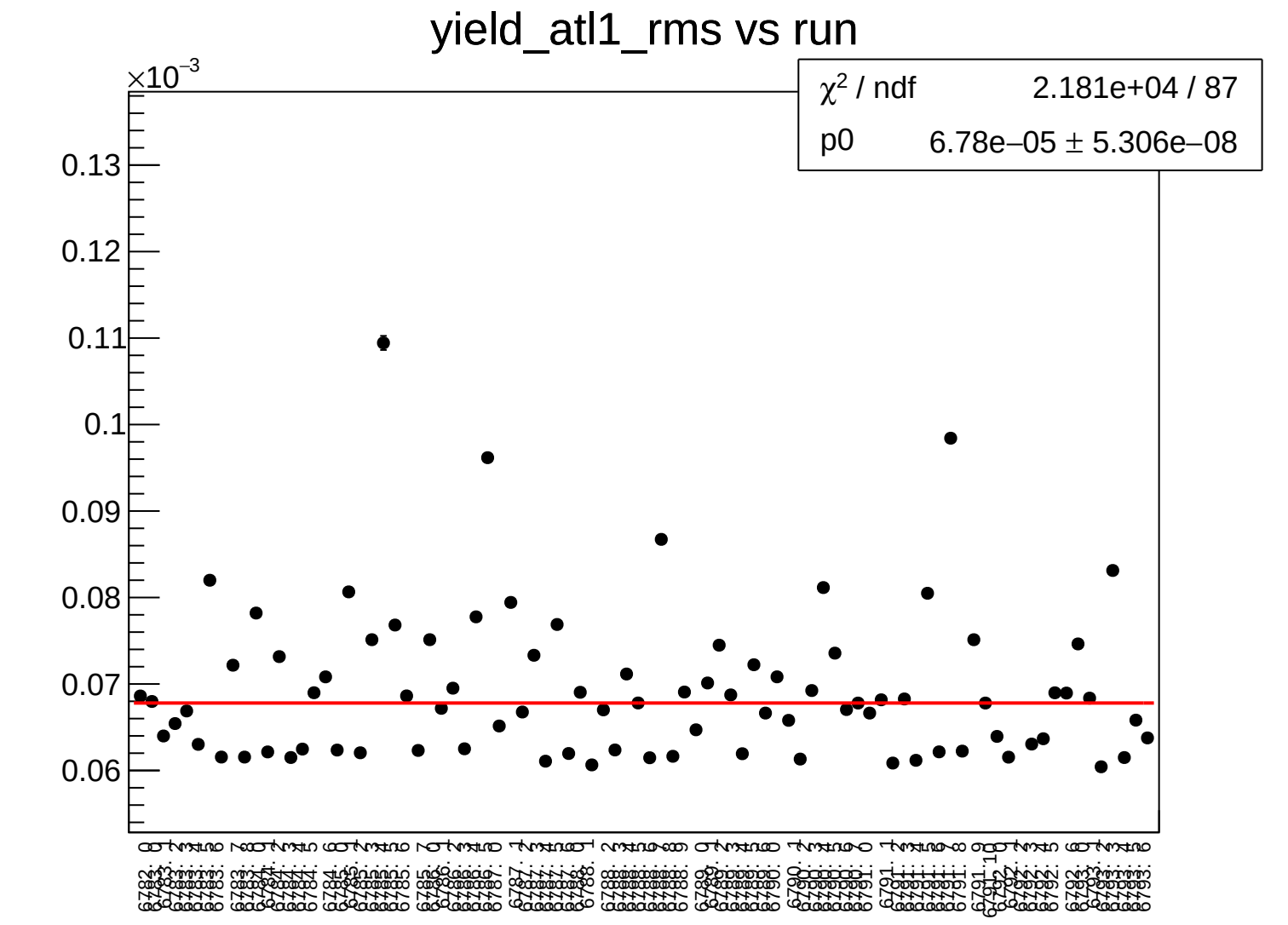

yield_dsr_mean vs run
χ² / ndf 8.616e+05 / 87
p0 −25.36 ± 6.128e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 88
Mean −13.05
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

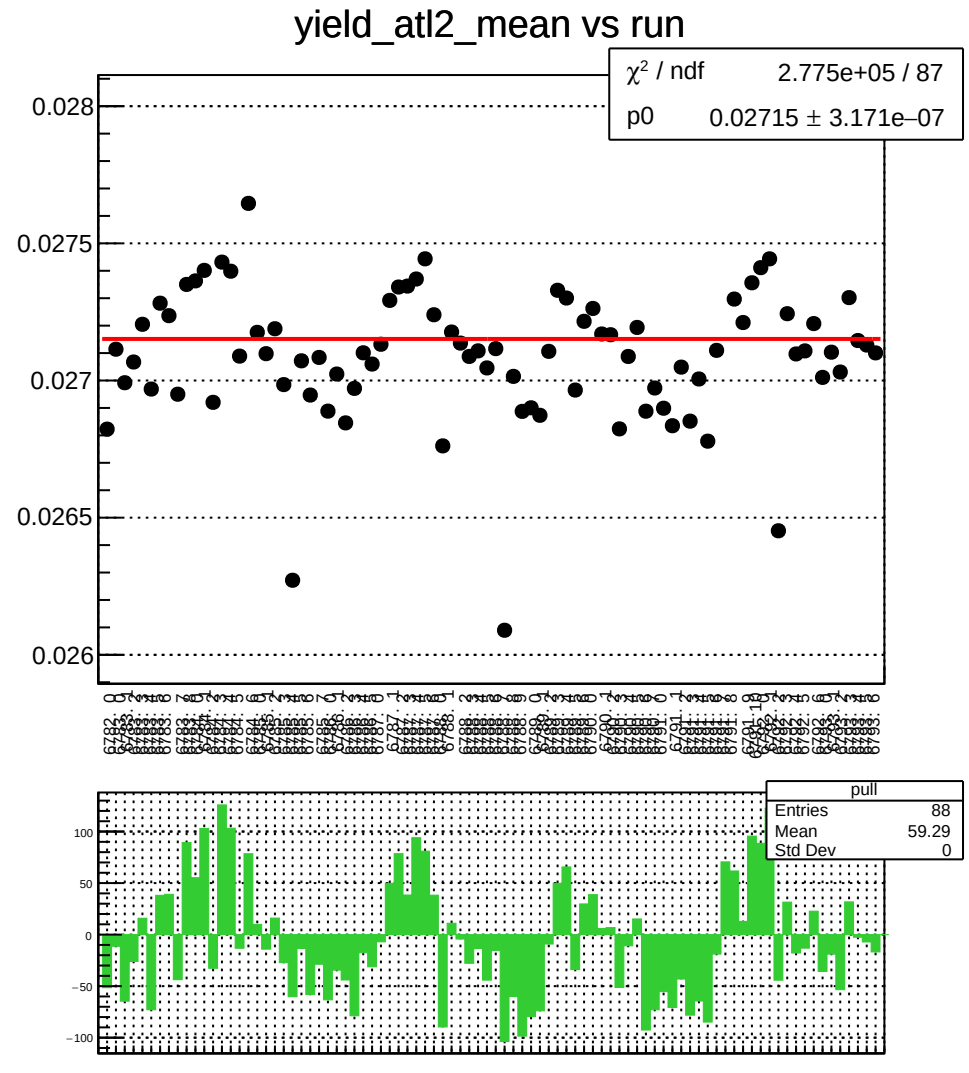

pull1D
Entries 88
Mean −1.346
Std Dev 1.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

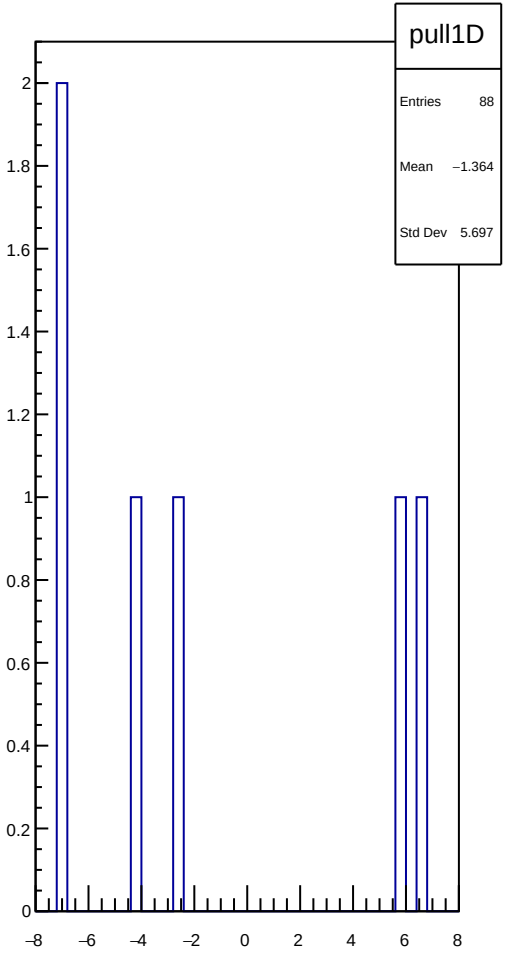

yield_dsr_rms vs run
χ² / ndf 6.922e+04 / 87
p0 0.05457 ± 4.333e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

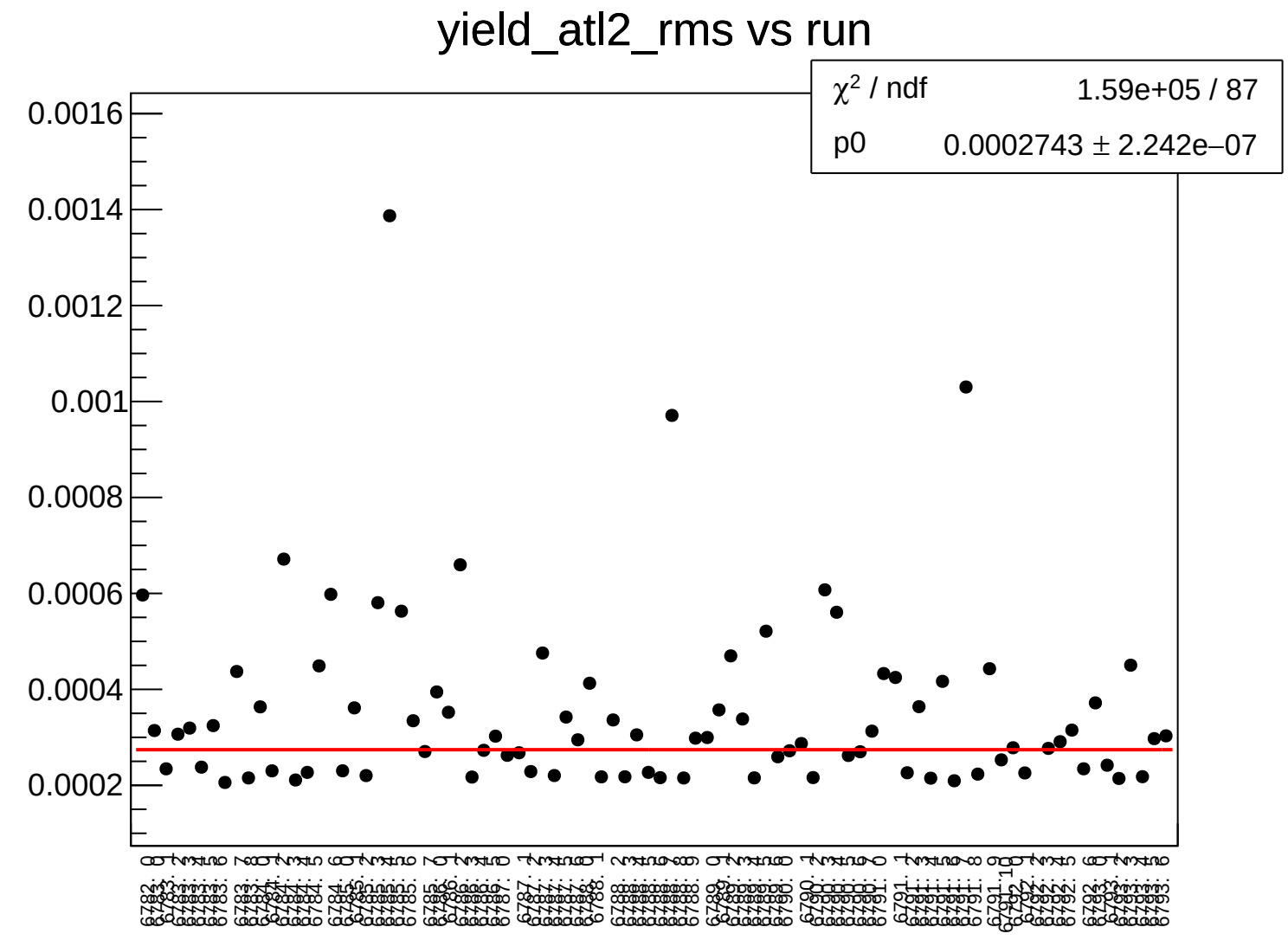

yield_atl1_mean vs run
χ² / ndf 3.593e+05 / 87
p0 0.02467 ± 7.503e−08
0.0248
0.02475
0.0247
0.02465
0.0246
pull
Entries 88
Mean −866.3
Std Dev 0
150
100
50
0
−50
−100

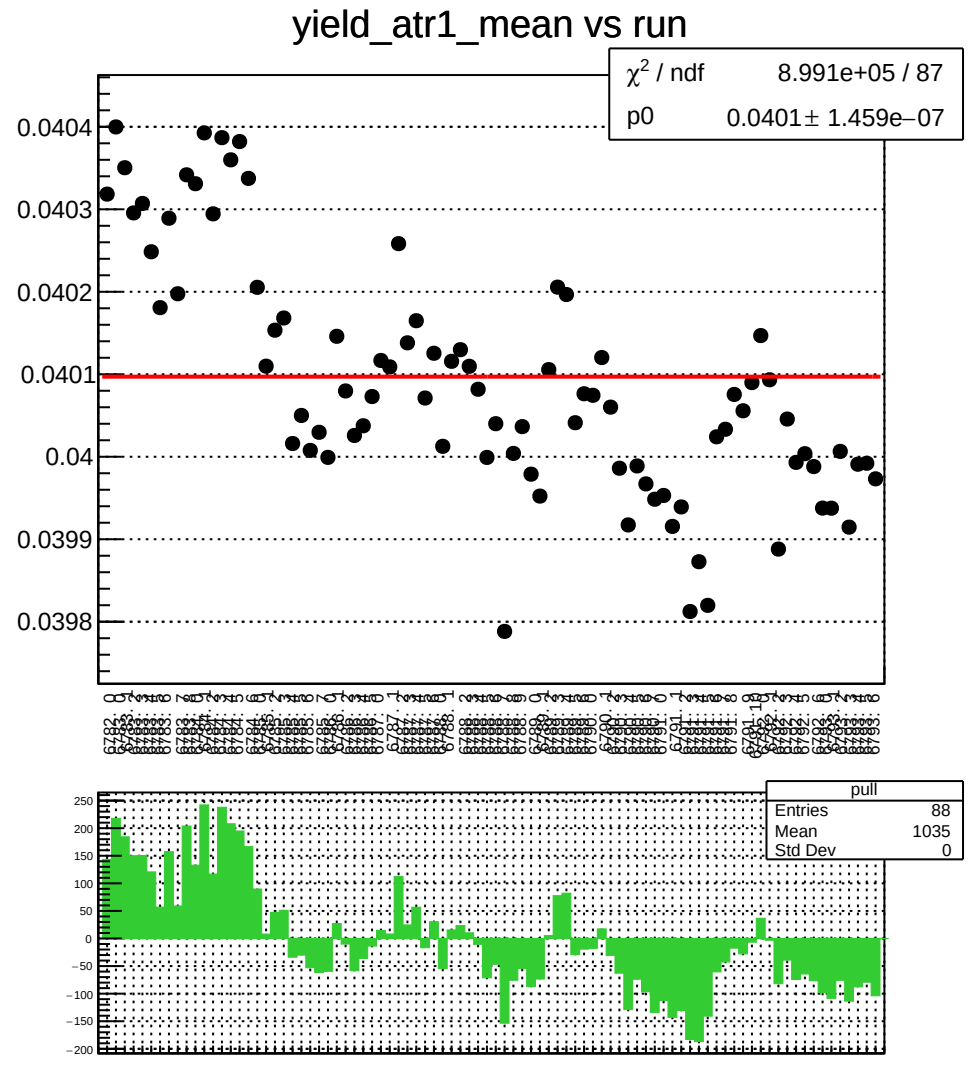

pull1D
Entries 88
Mean −1.118
Std Dev 4.065
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

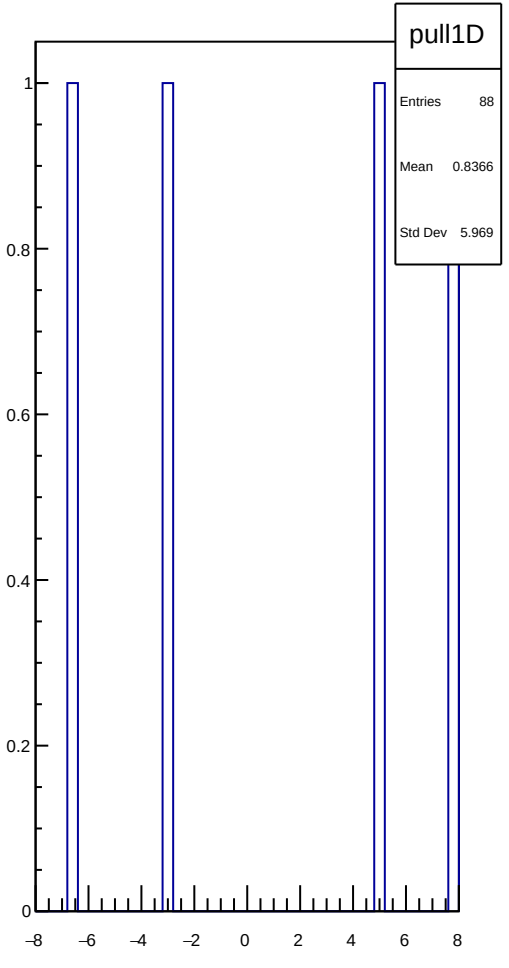

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.181e+04 / 87
p0 6.78e−05 ± 5.306e−08
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

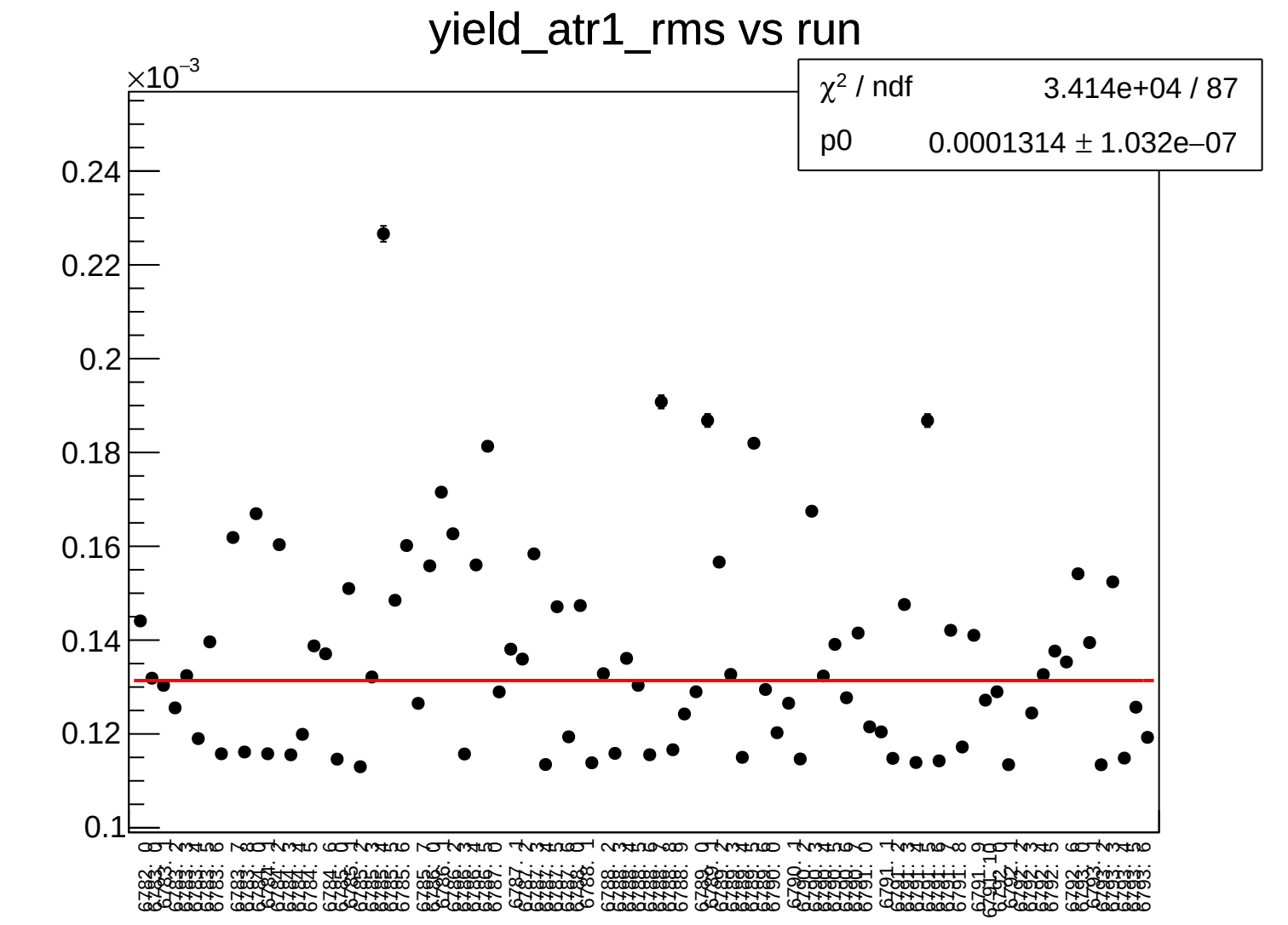

yield_atl2_mean vs run
χ² / ndf 2.775e+05 / 87
p0 0.02715 ± 3.171e−07
0.028
0.0275
0.027
0.0265
0.026
pull
Entries 88
Mean 59.29
Std Dev 0
100
50
0
−50
−100

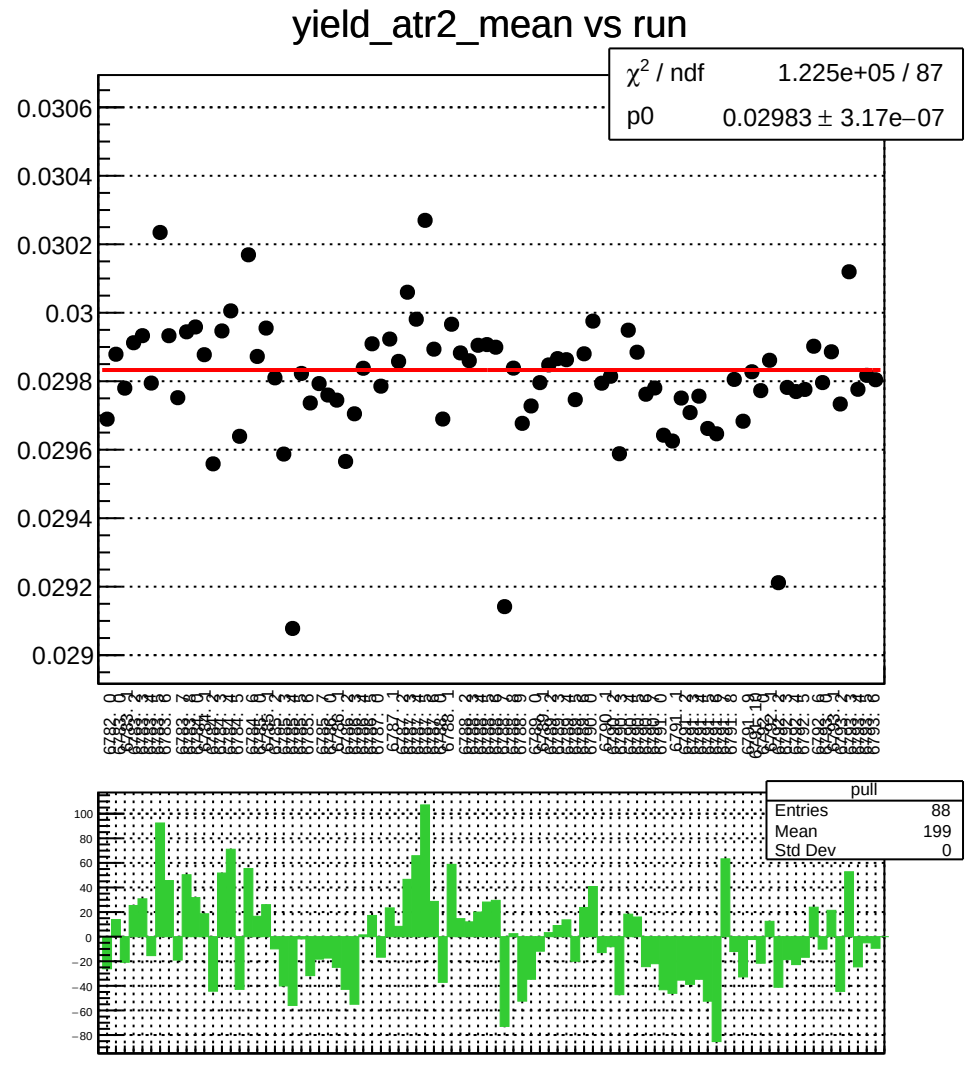

pull1D
Entries 88
Mean −1.364
Std Dev 5.697
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

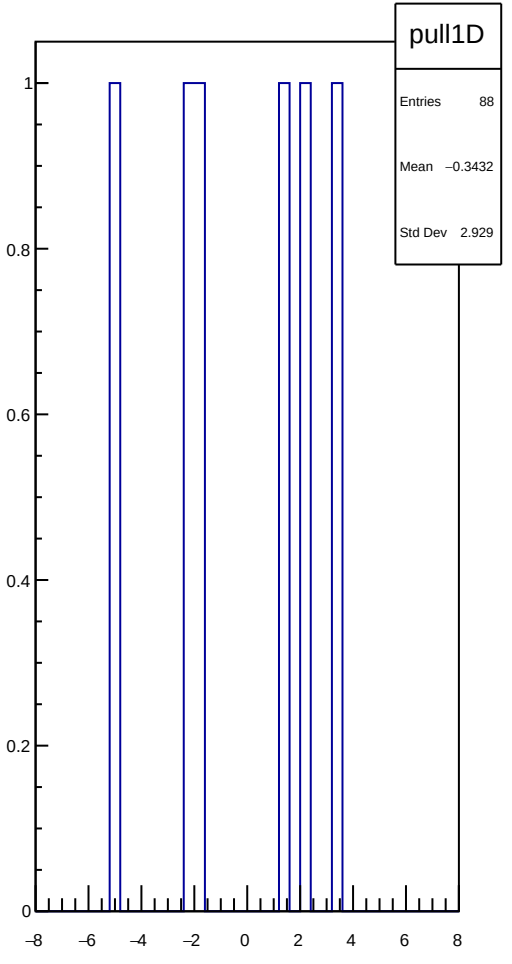

yield_atl2_rms vs run
χ² / ndf 1.59e+05 / 87
p0 0.0002743 ± 2.242e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

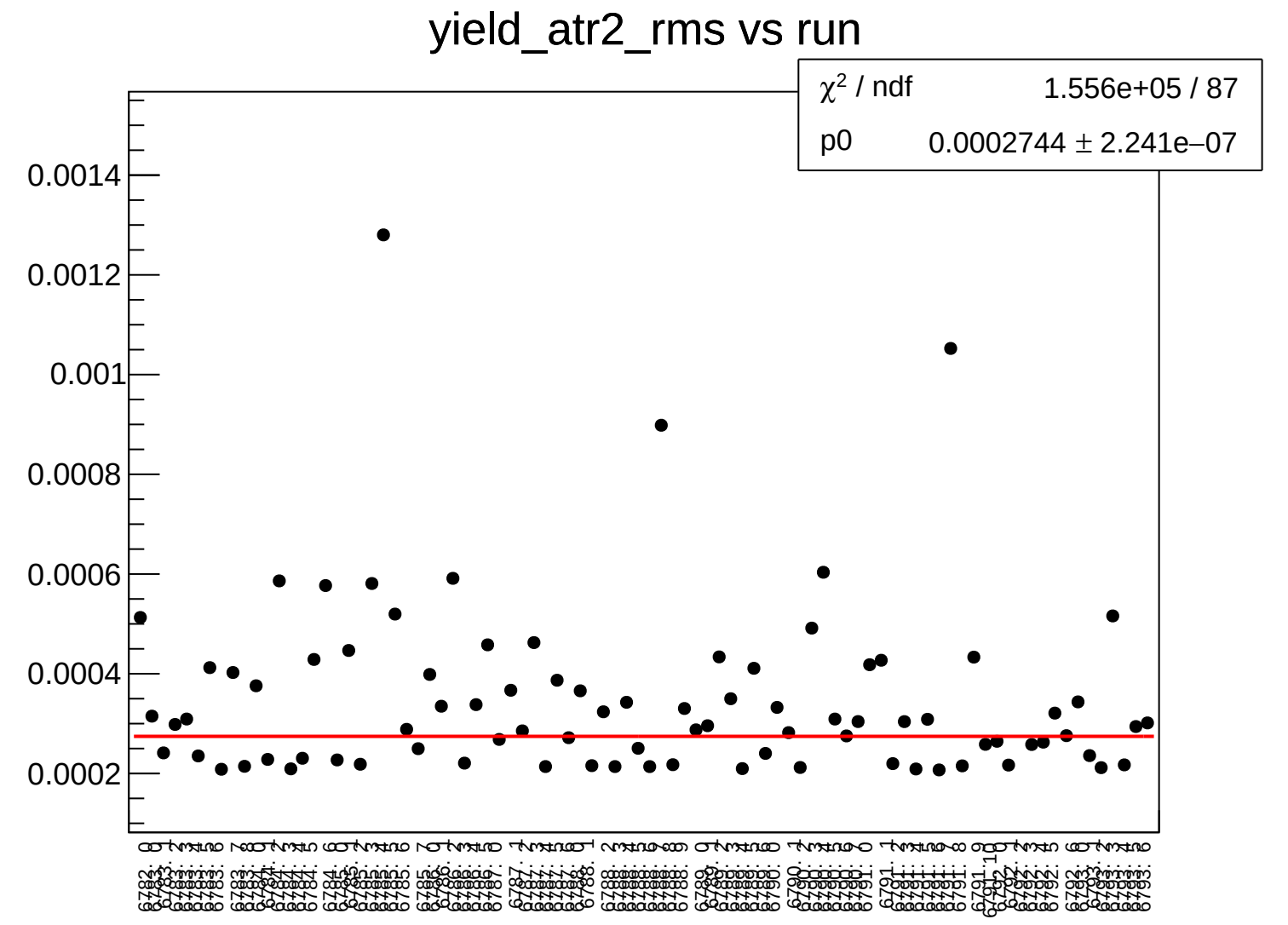

yield_atr1_mean vs run
χ² / ndf 8.991e+05 / 87
p0 0.0401 ± 1.459e−07
0.0404
0.0403
0.0402
0.0401
0.04
0.0399
0.0398
pull
Entries 88
Mean 1035
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

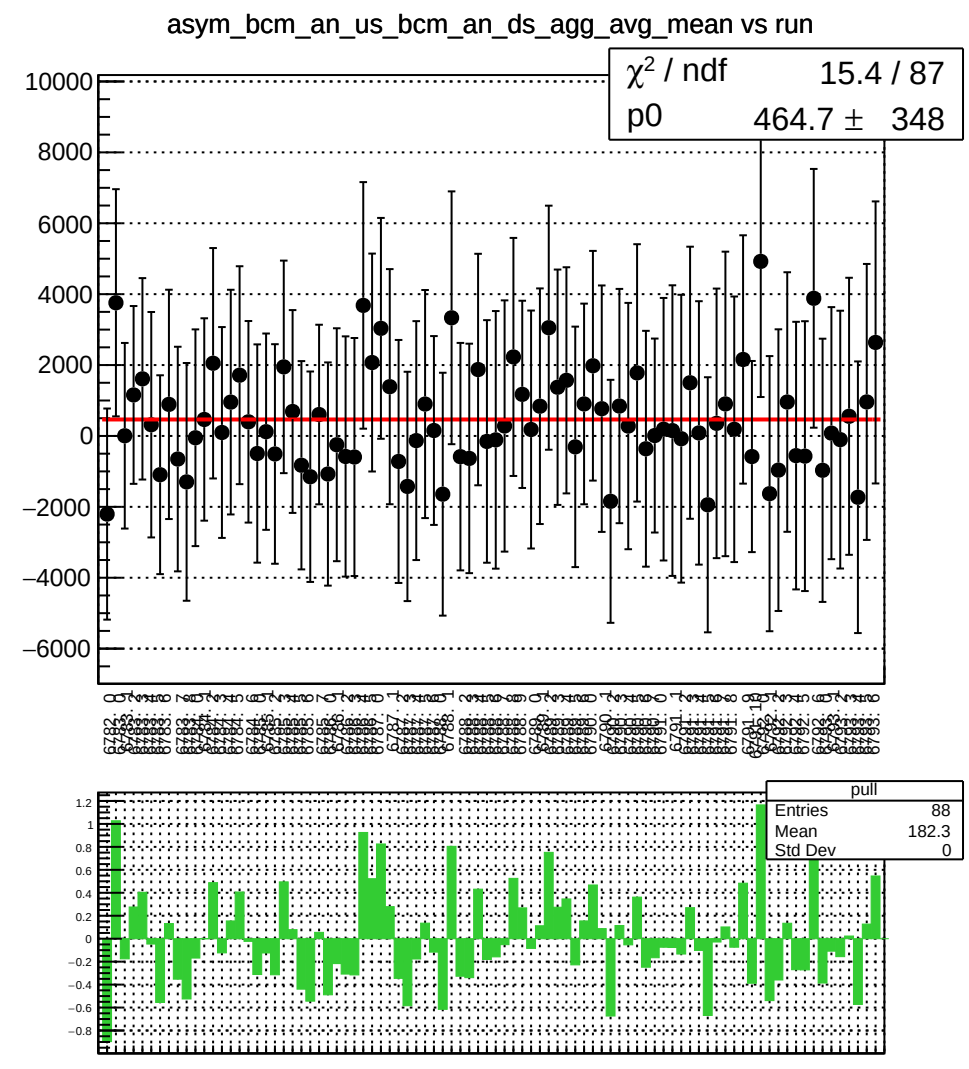

pull1D
Entries 88
Mean 0.8366
Std Dev 5.969
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

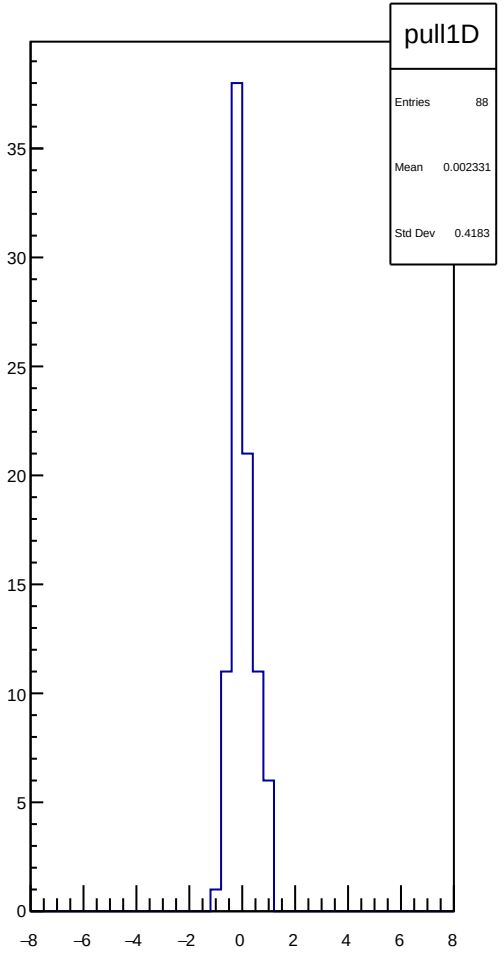

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.414e+04 / 87
p0 0.0001314 ± 1.032e−07
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1

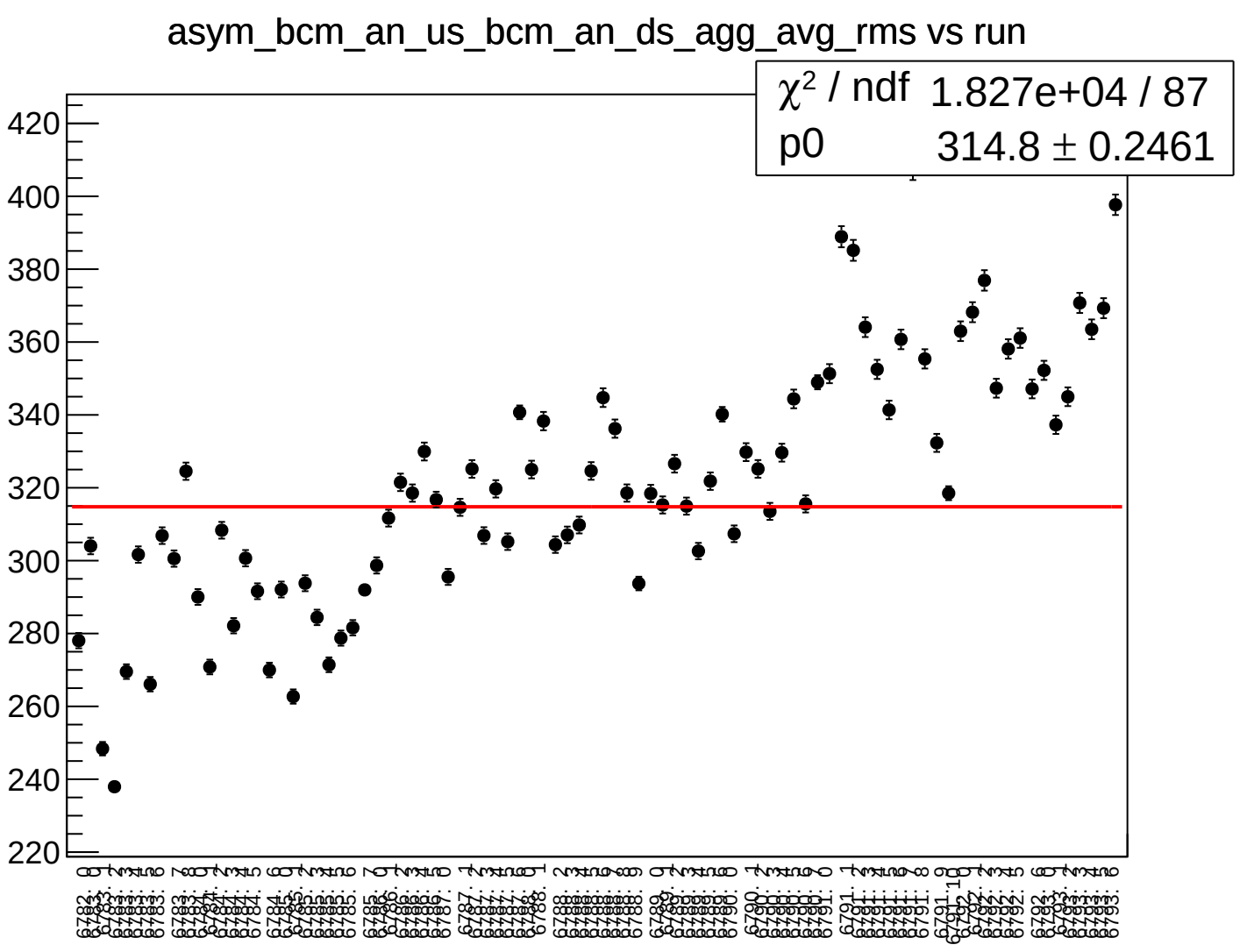

yield_atr2_mean vs run
χ² / ndf 1.225e+05 / 87
p0 0.02983 ± 3.17e−07
0.0306
0.0304
0.0302
0.03
0.0298
0.0296
0.0294
0.0292
0.029
pull
Entries 88
Mean 199
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

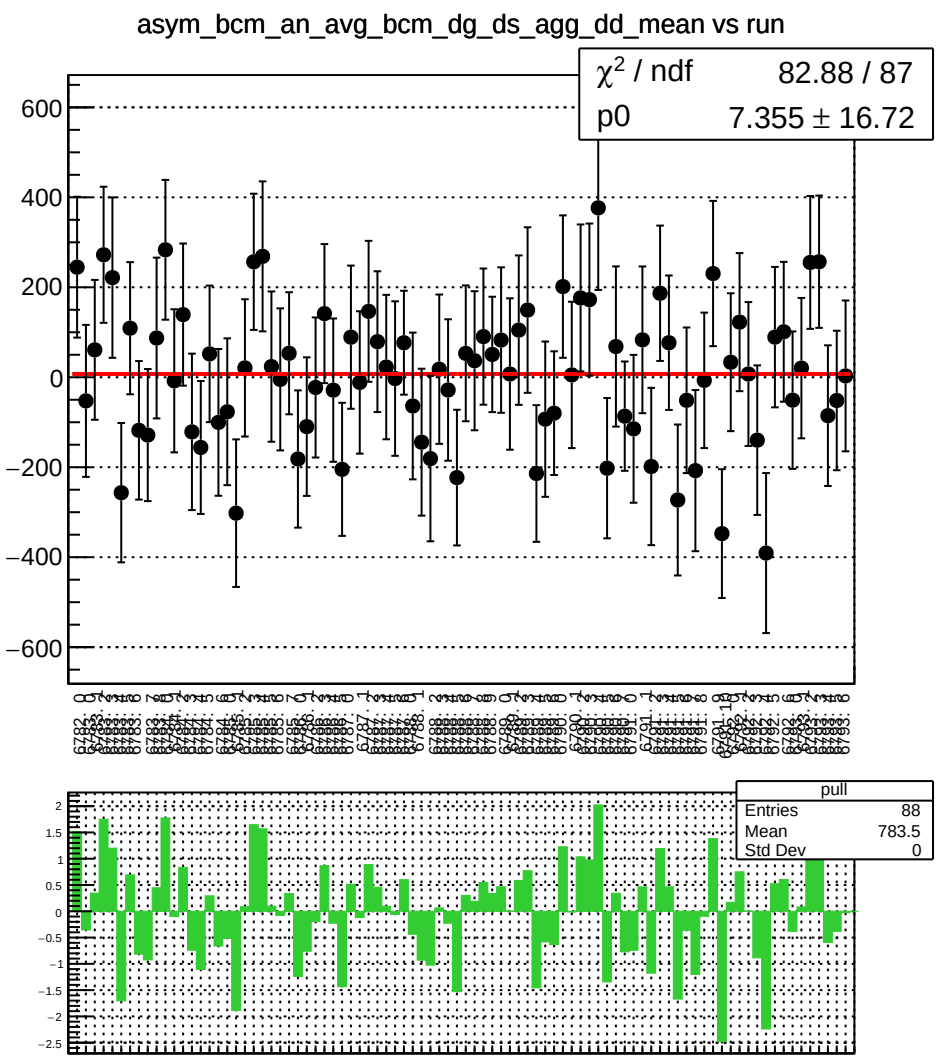

pull1D
Entries 88
Mean −0.3432
Std Dev 2.929
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

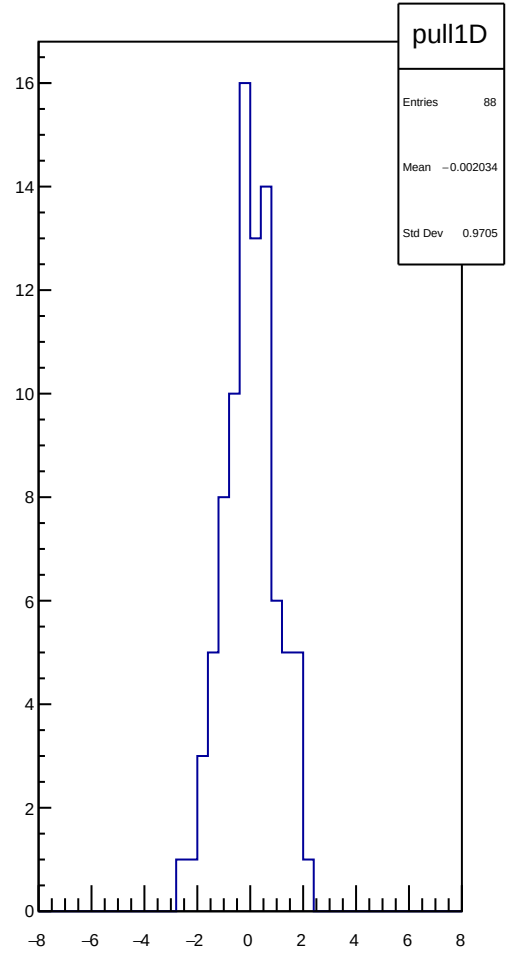

yield_atr2_rms vs run
χ² / ndf 1.556e+05 / 87
p0 0.0002744 ± 2.241e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

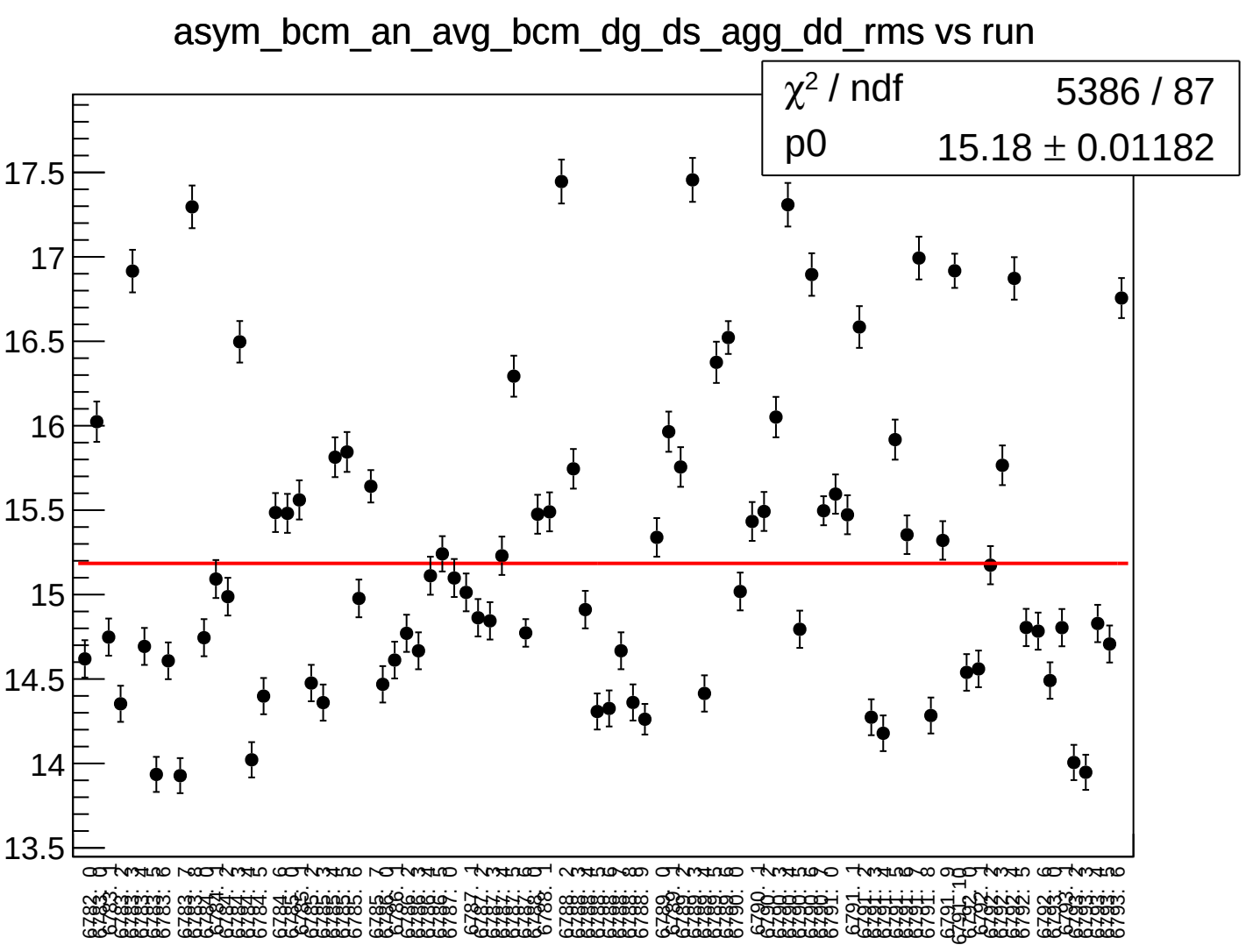

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.4 / 87
p0 464.7 ± 348
pull
Entries 88
Mean 182.3
Std Dev 0

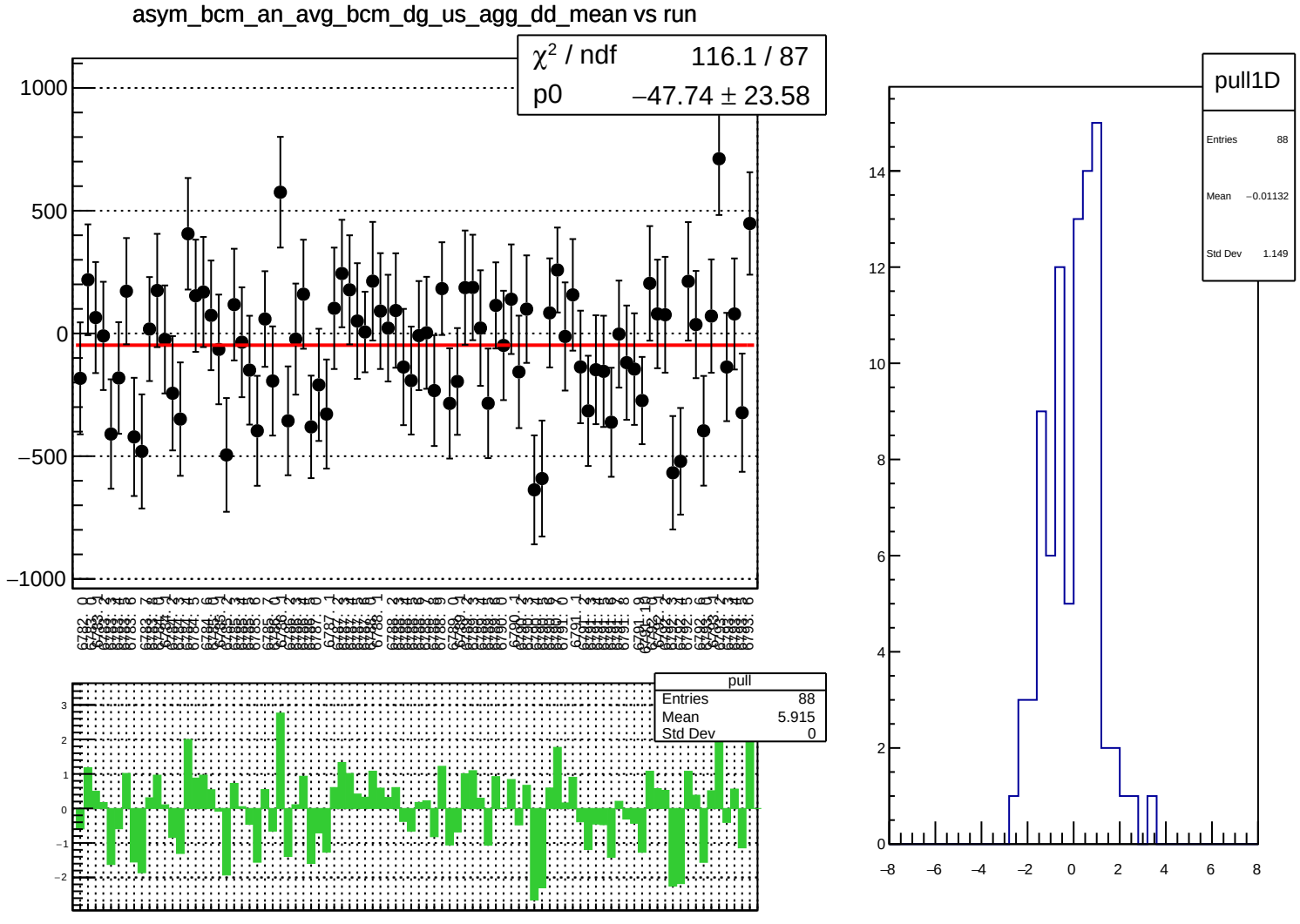

pull1D
Entries 88
Mean 0.002331
Std Dev 0.4183

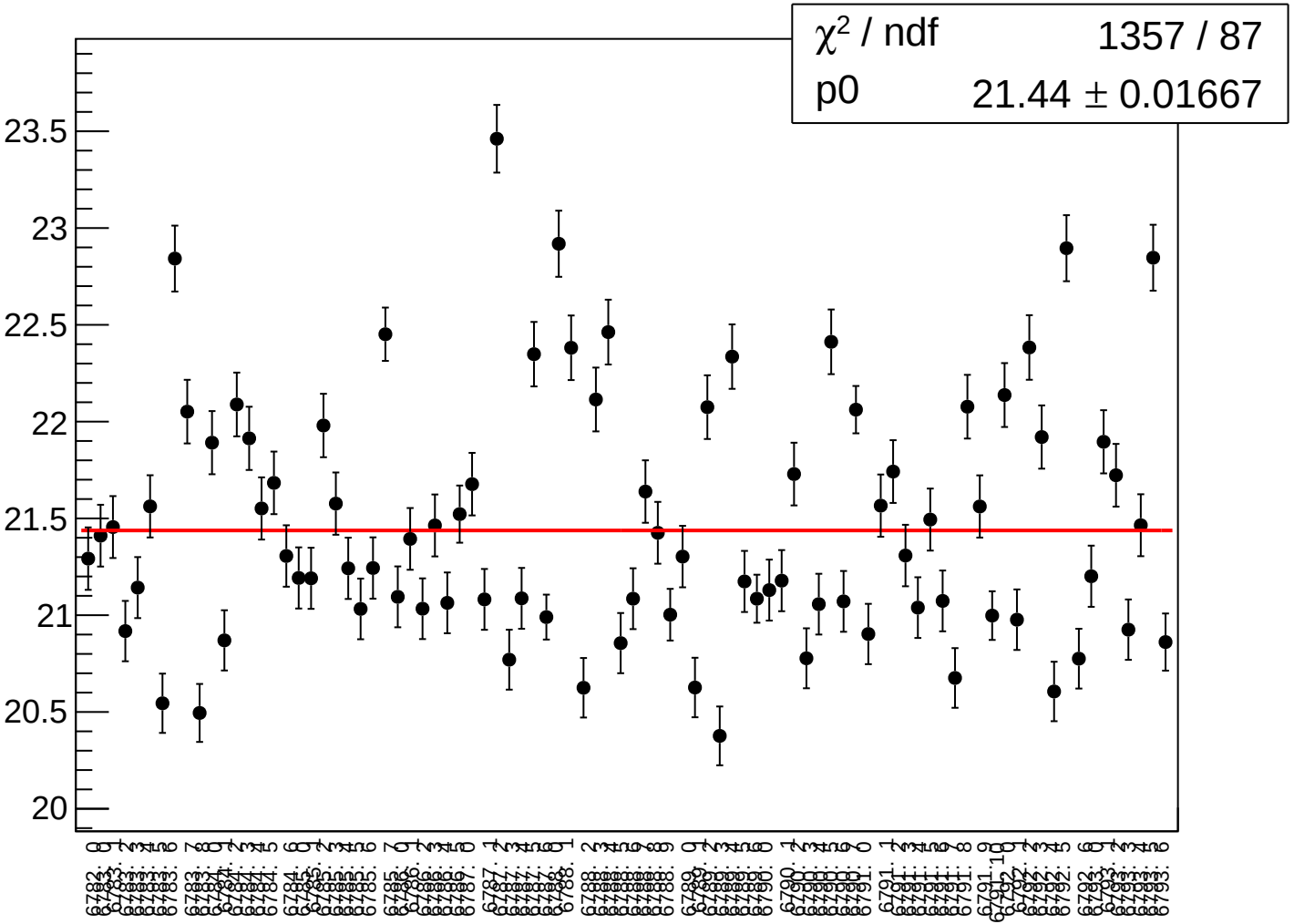

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.827e+04 / 87
p0 314.8 ± 0.2461
420
400
380
360
340
320
300
280
260
240
220

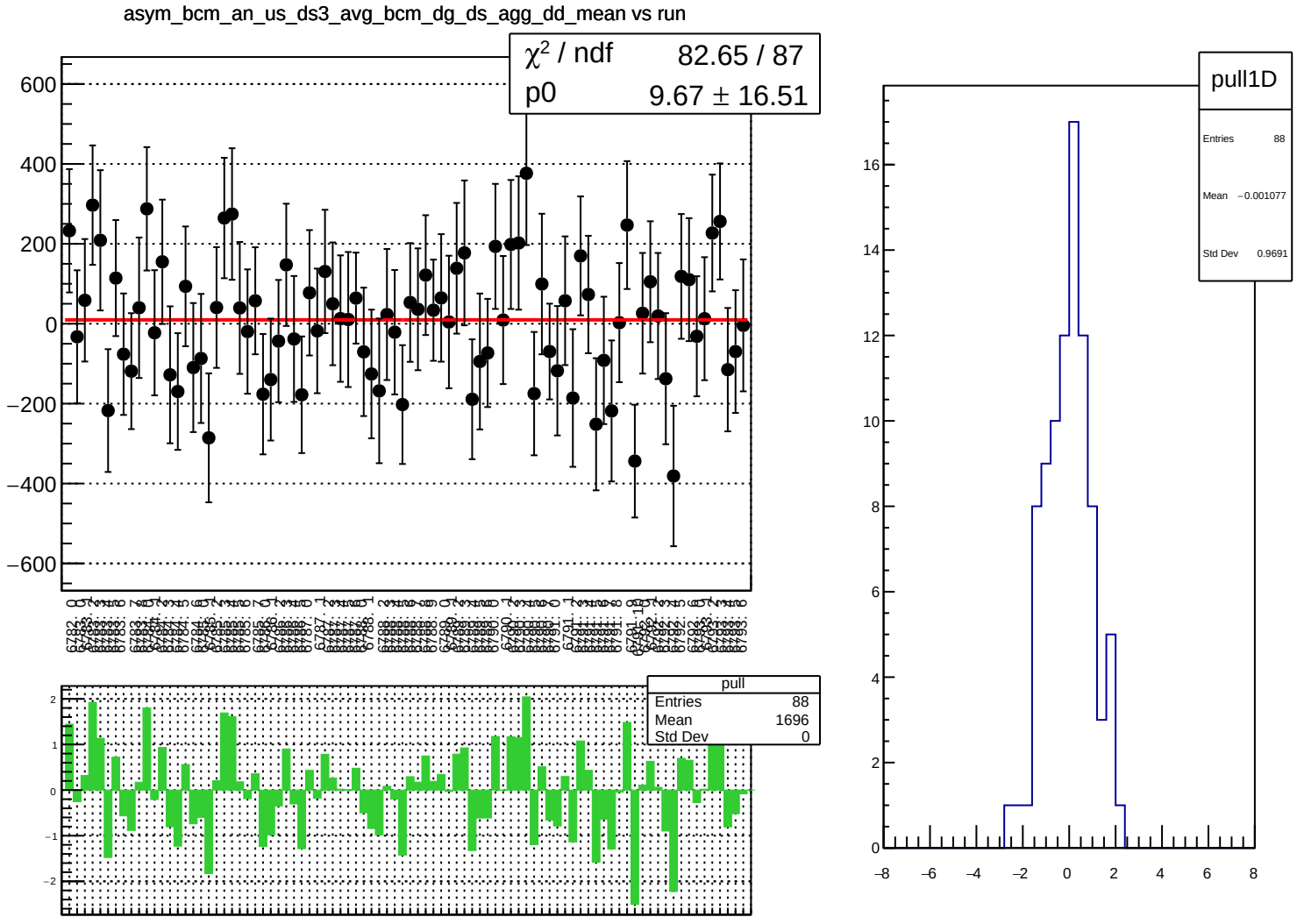

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.88 / 87
p0 7.355 ± 16.72
pull
Entries 88
Mean 783.5
Std Dev 0

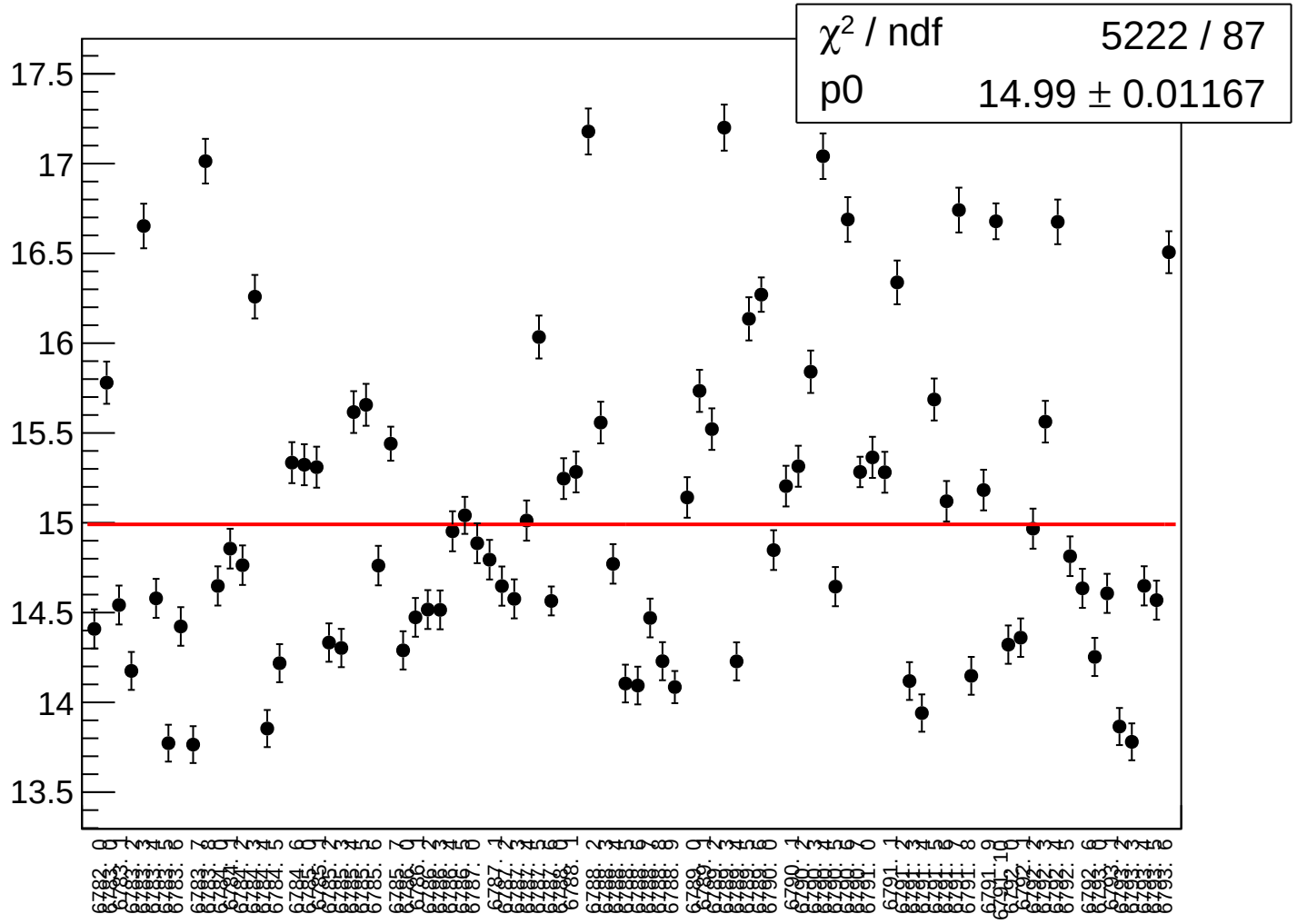

pull1D
Entries 88
Mean −0.002034
Std Dev 0.9705

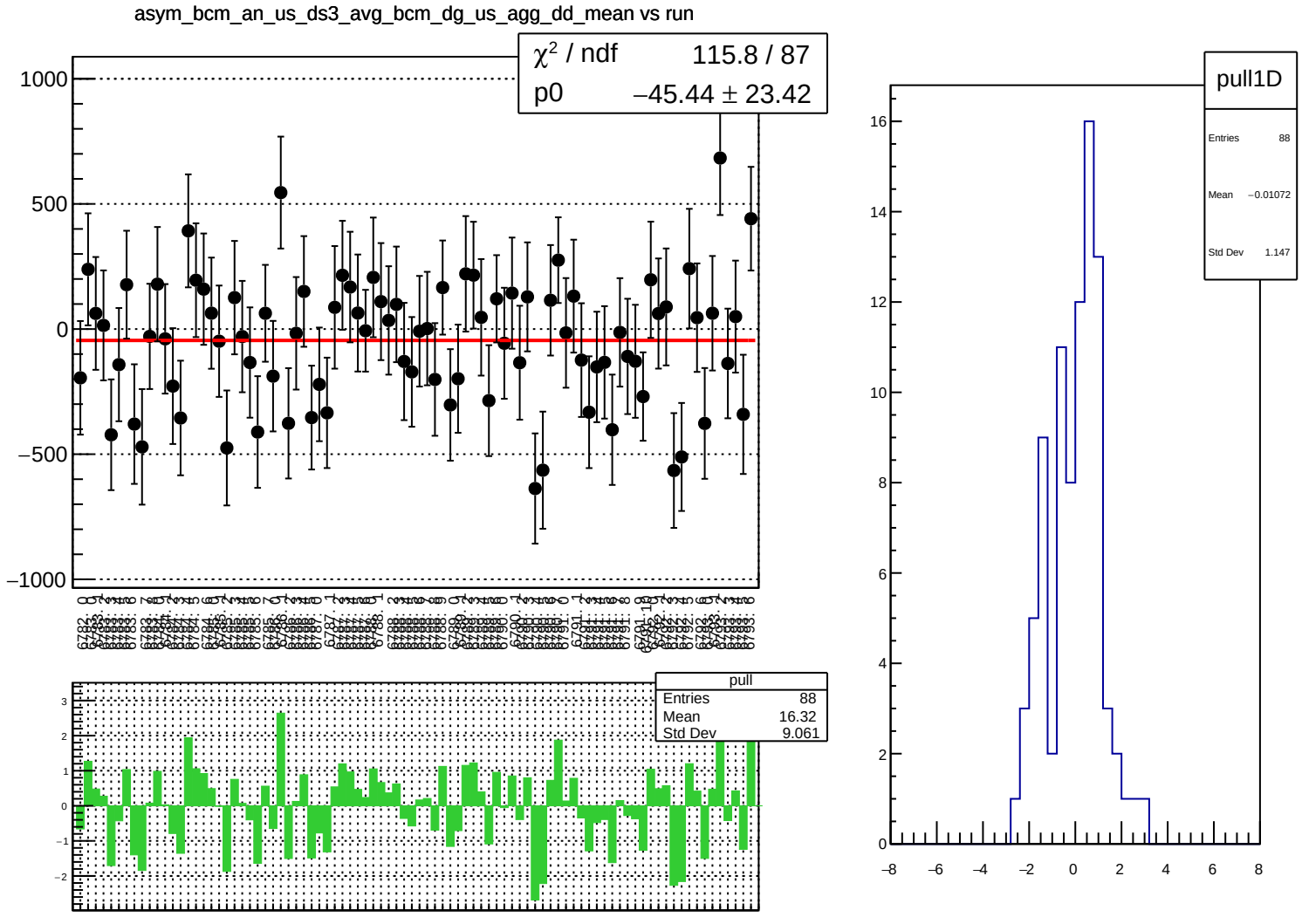

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5386 / 87
p0 15.18 ± 0.01182
17.5
17
16.5
16
15.5
15
14.5
14
13.5

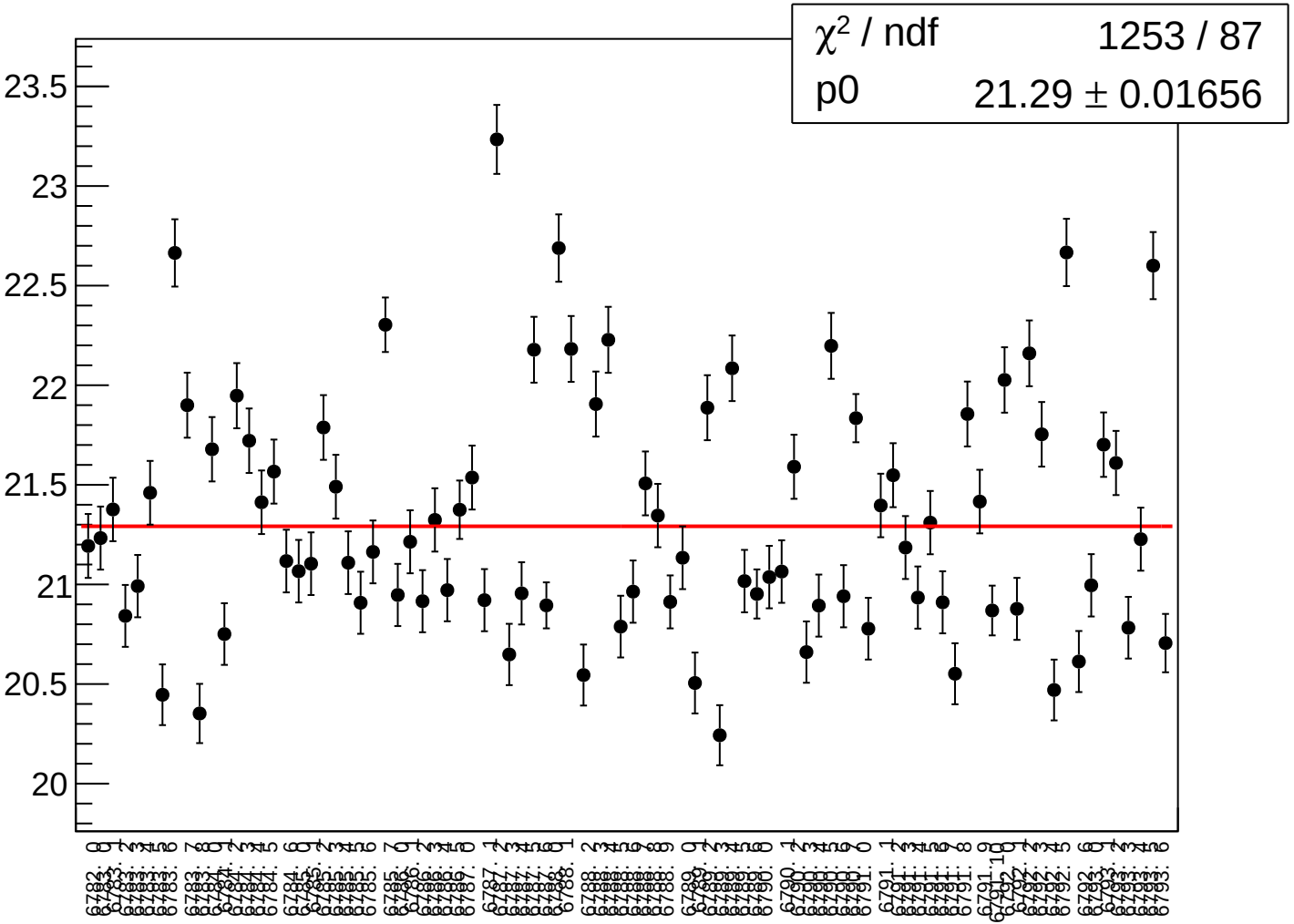

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 116.1 / 87
p0 −47.74 ± 23.58
1000
500
0
−500
−1000
pull
Entries 88
Mean 5.915
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01132
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

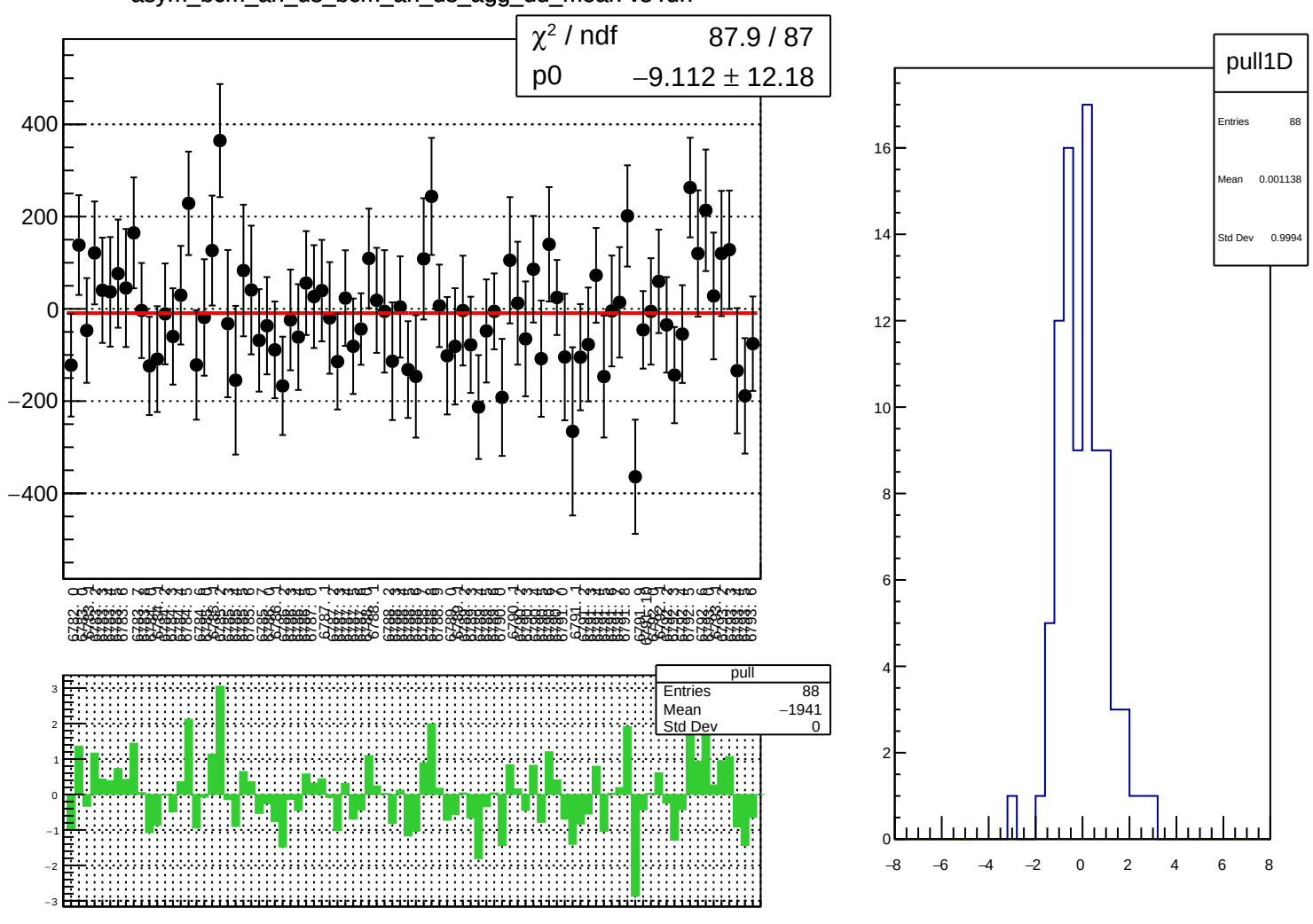

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1357 / 87
p0 21.44 ± 0.01667
23.5
23
22.5
22
21.5
21
20.5
20

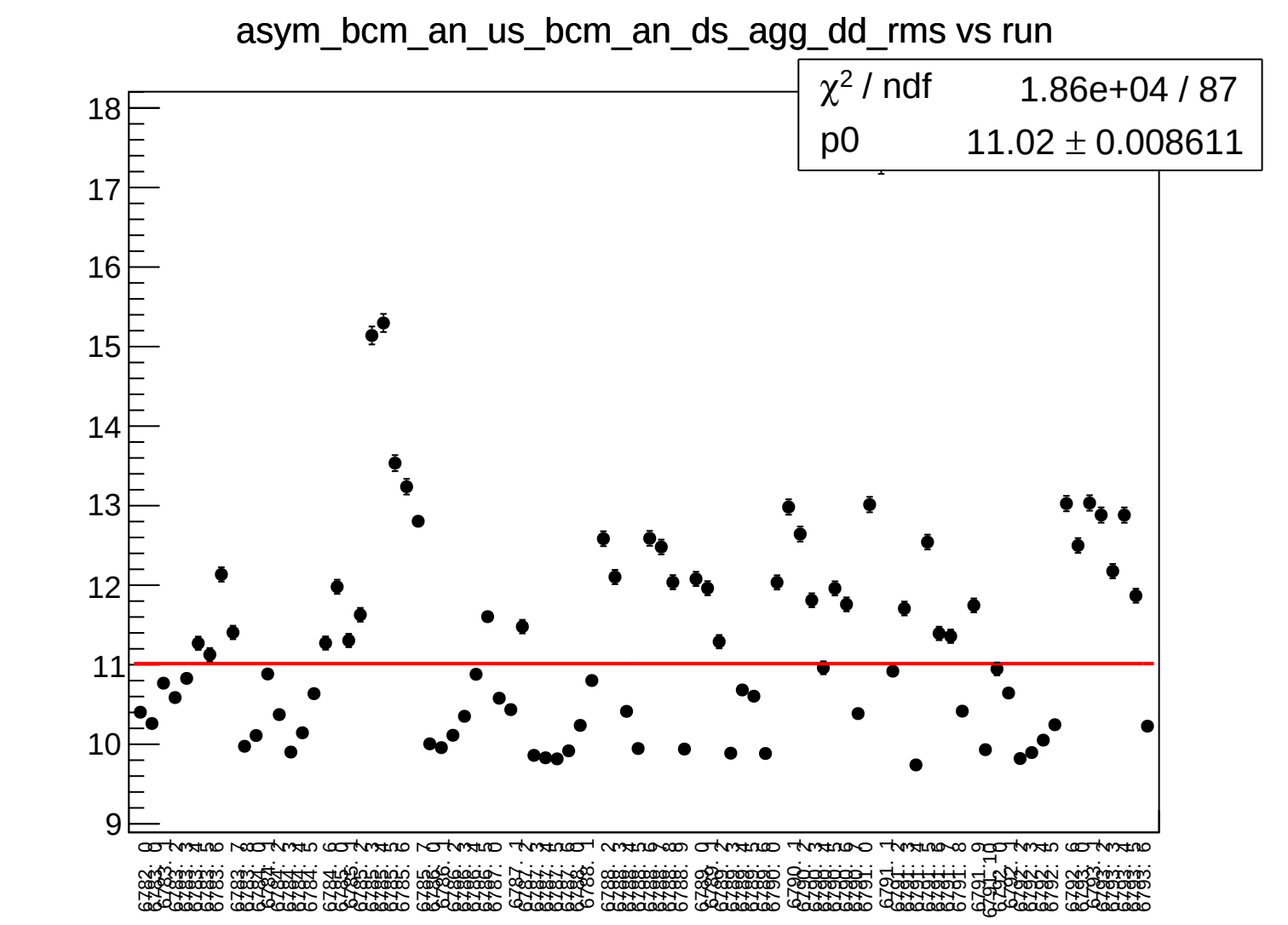

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.65 / 87
p0 9.67 ± 16.51
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 1696
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001077
Std Dev 0.9691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

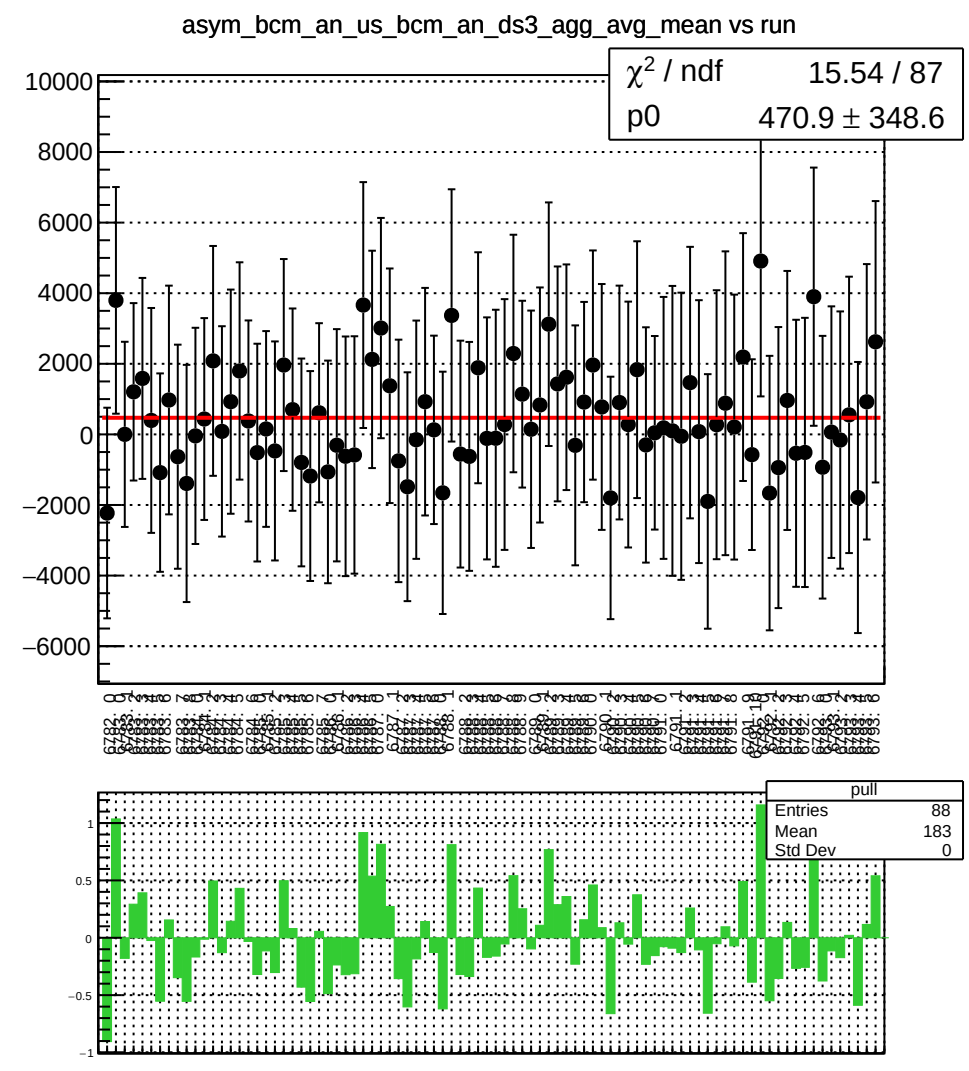

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5222 / 87
p0 14.99 ± 0.01167
17.5
17
16.5
16
15.5
15
14.5
14
13.5

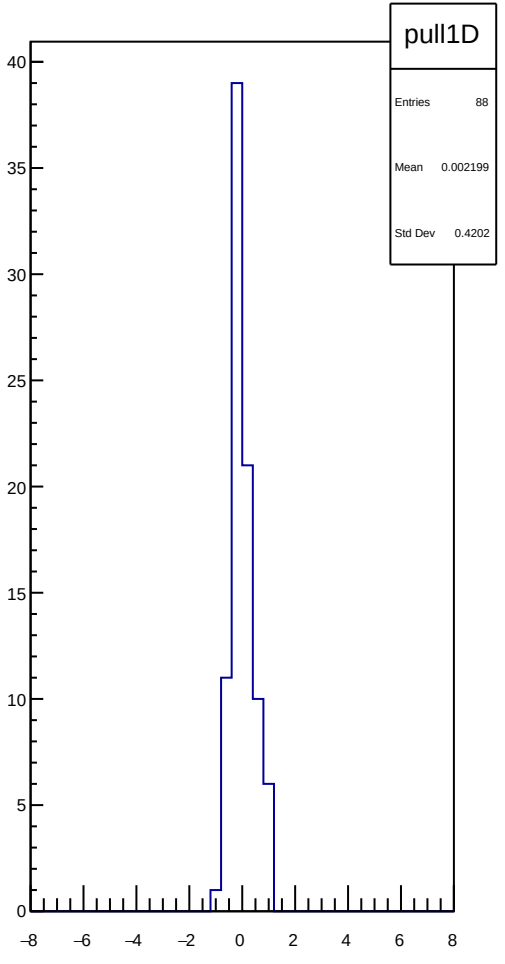

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 115.8 / 87
p0 −45.44 ± 23.42
1000
500
0
−500
−1000
pull
Entries 88
Mean 16.32
Std Dev 9.061
pull1D
Entries 88
Mean −0.01072
Std Dev 1.147

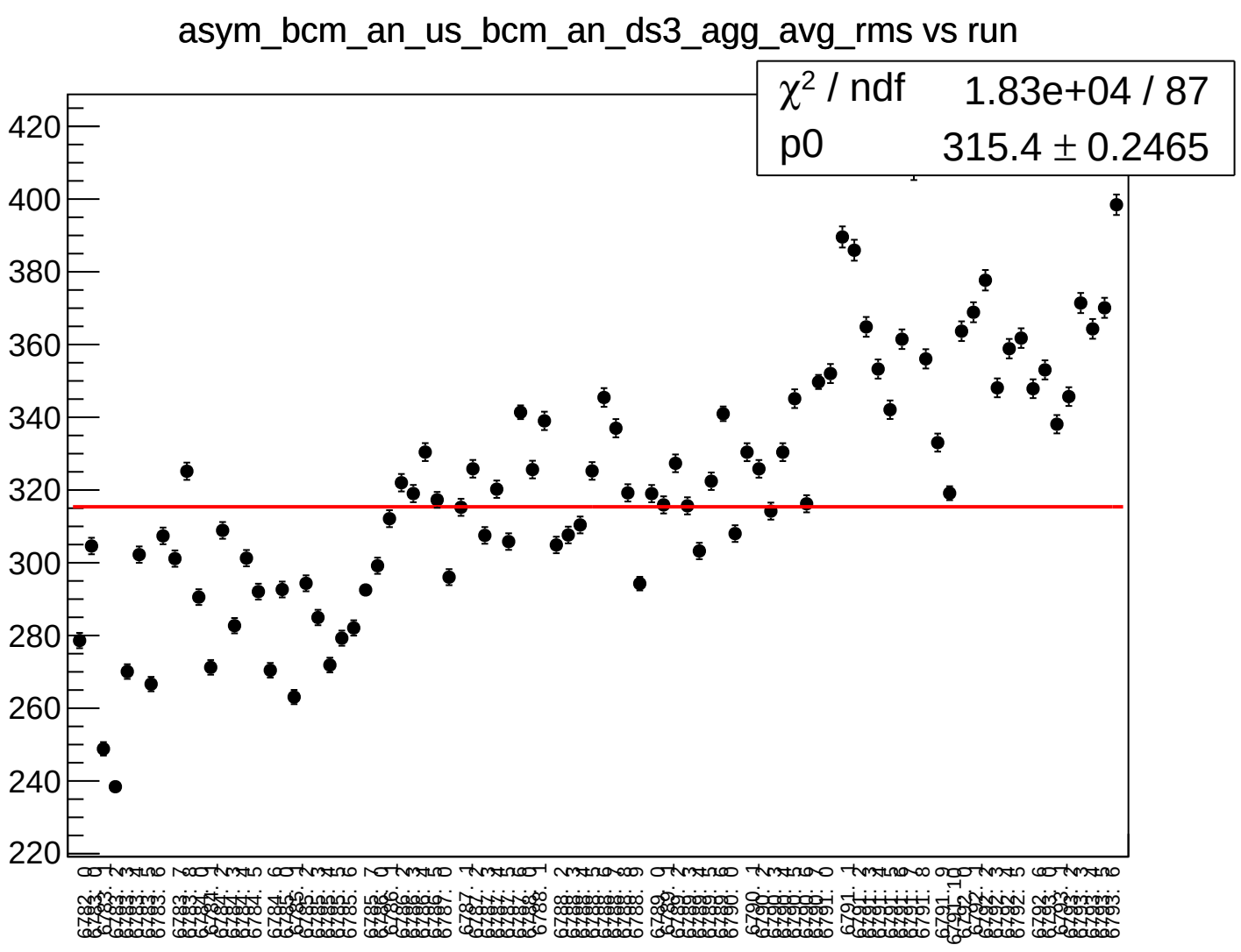

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1253 / 87
p0 21.29 ± 0.01656
23.5
23
22.5
22
21.5
21
20.5
20

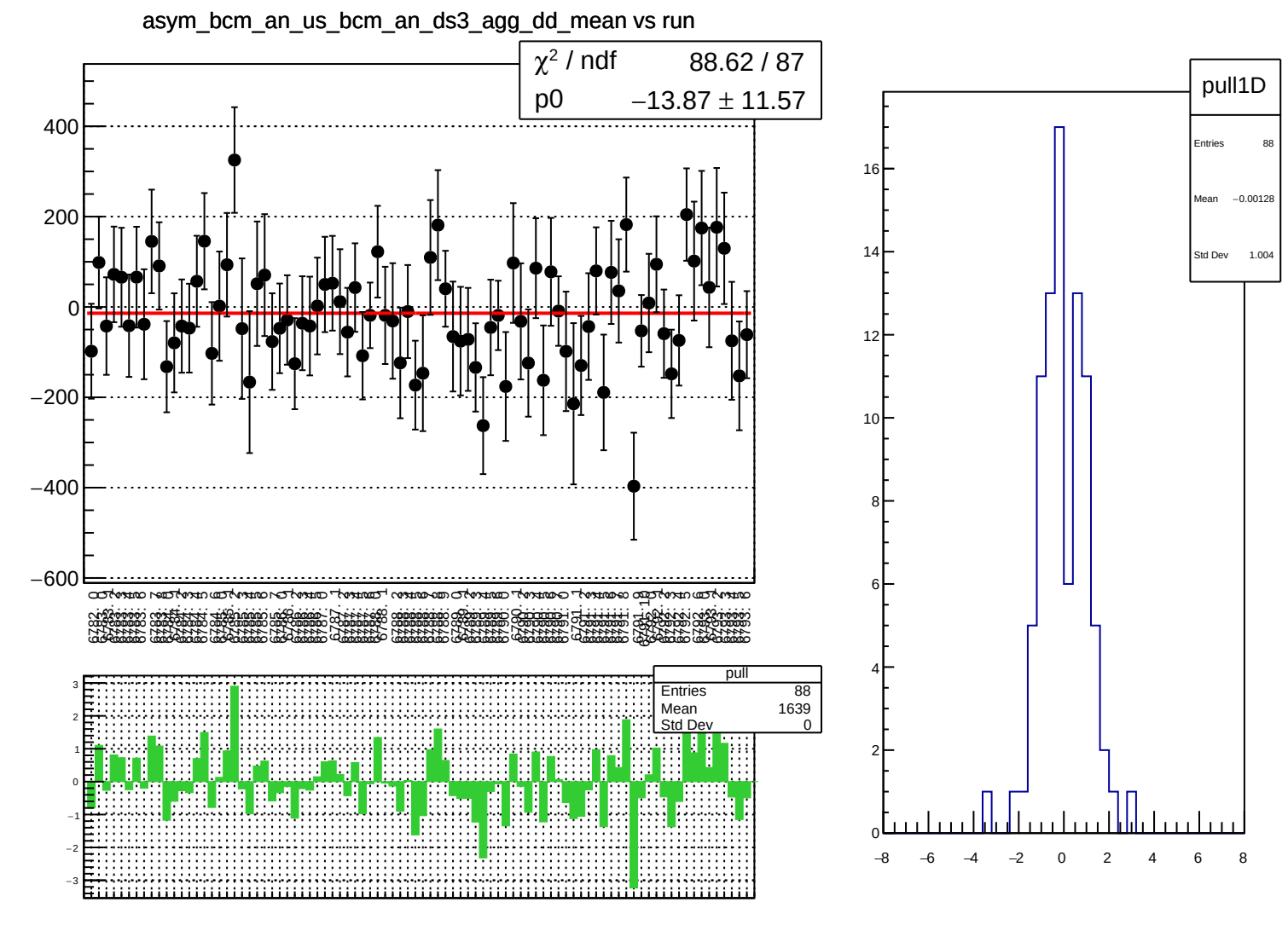

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 87.9 / 87
p0 −9.112 ± 12.18
400
200
0
−200
−400
pull
Entries 88
Mean −1941
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.001138
Std Dev 0.9994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

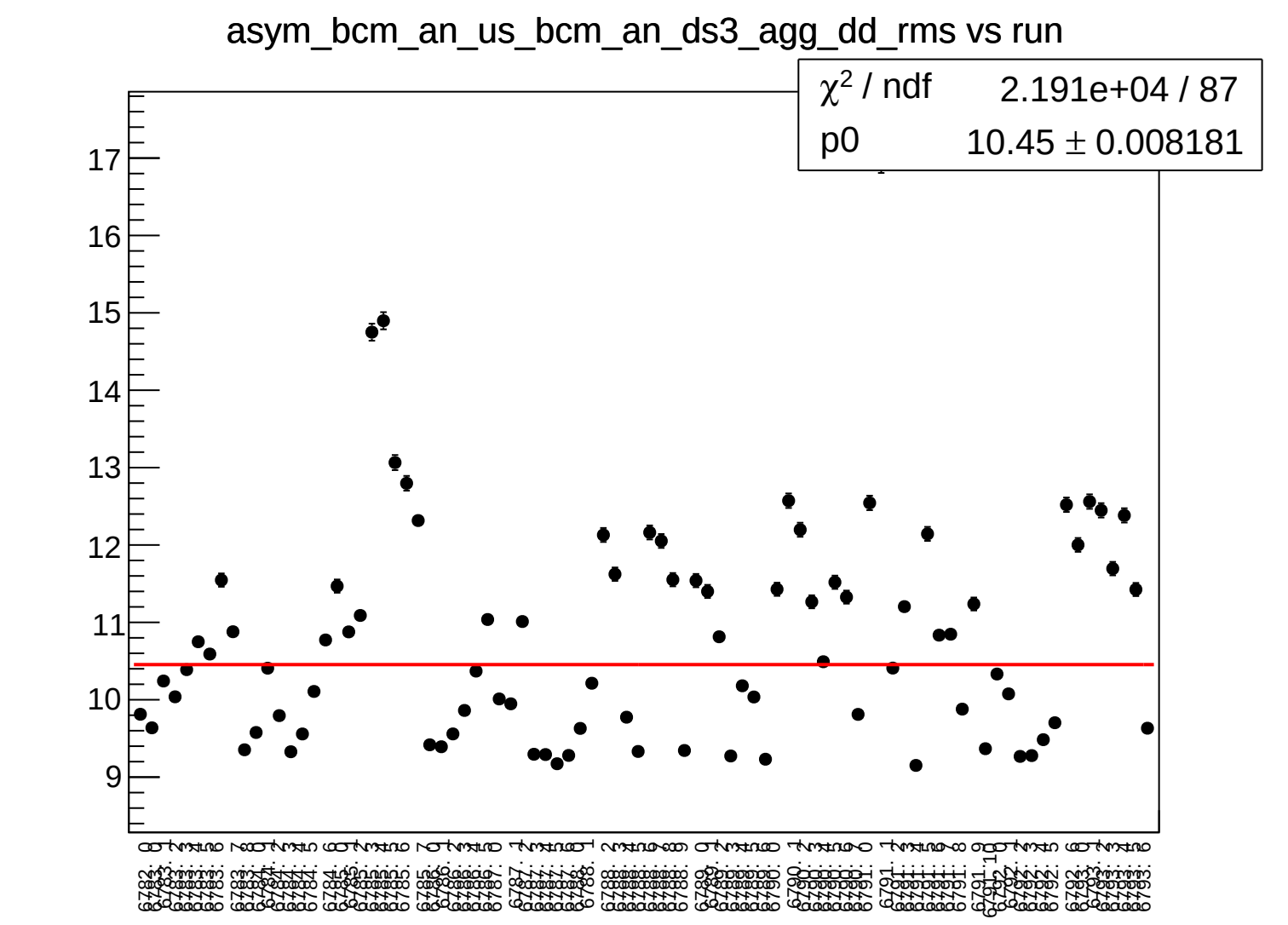

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.86e+04 / 87
p0 11.02 ± 0.008611
18
17
16
15
14
13
12
11
10
9

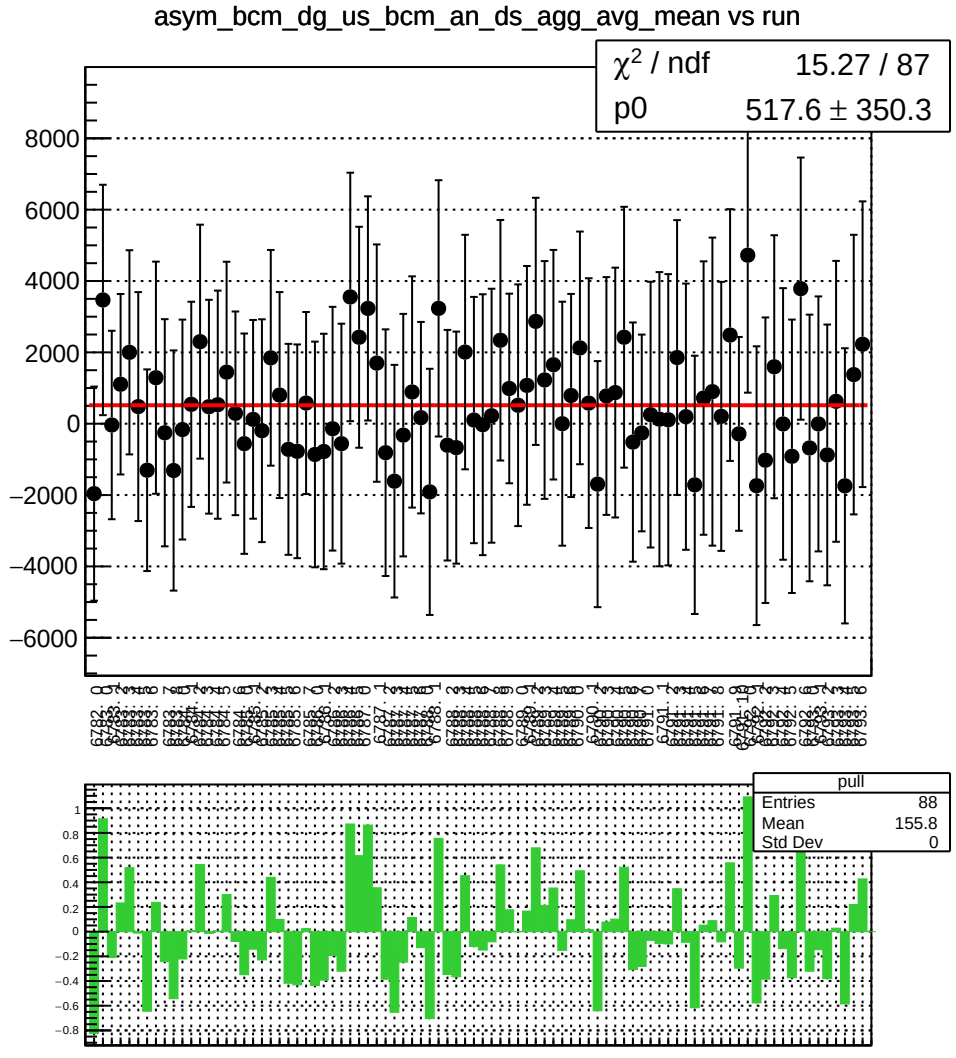

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.54 / 87
p0 470.9 ± 348.6
pull
Entries 88
Mean 183
Std Dev 0

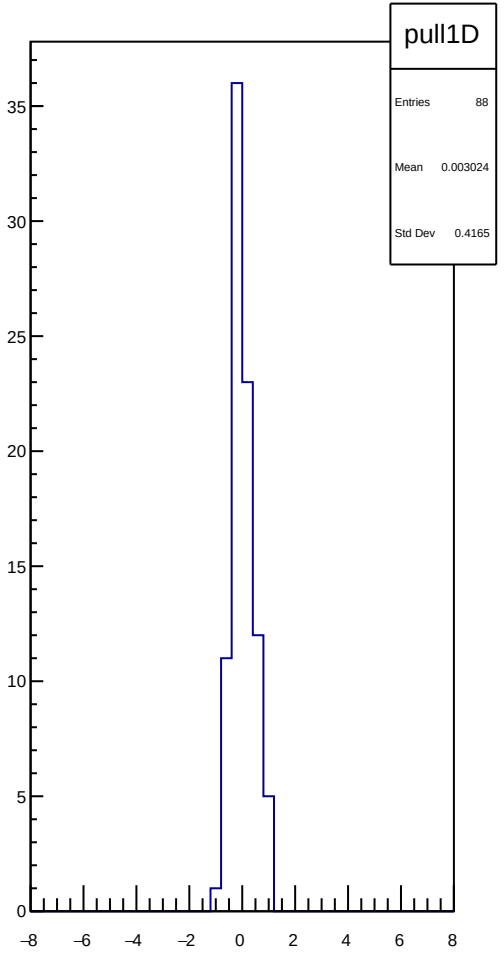

pull1D
Entries 88
Mean 0.002199
Std Dev 0.4202

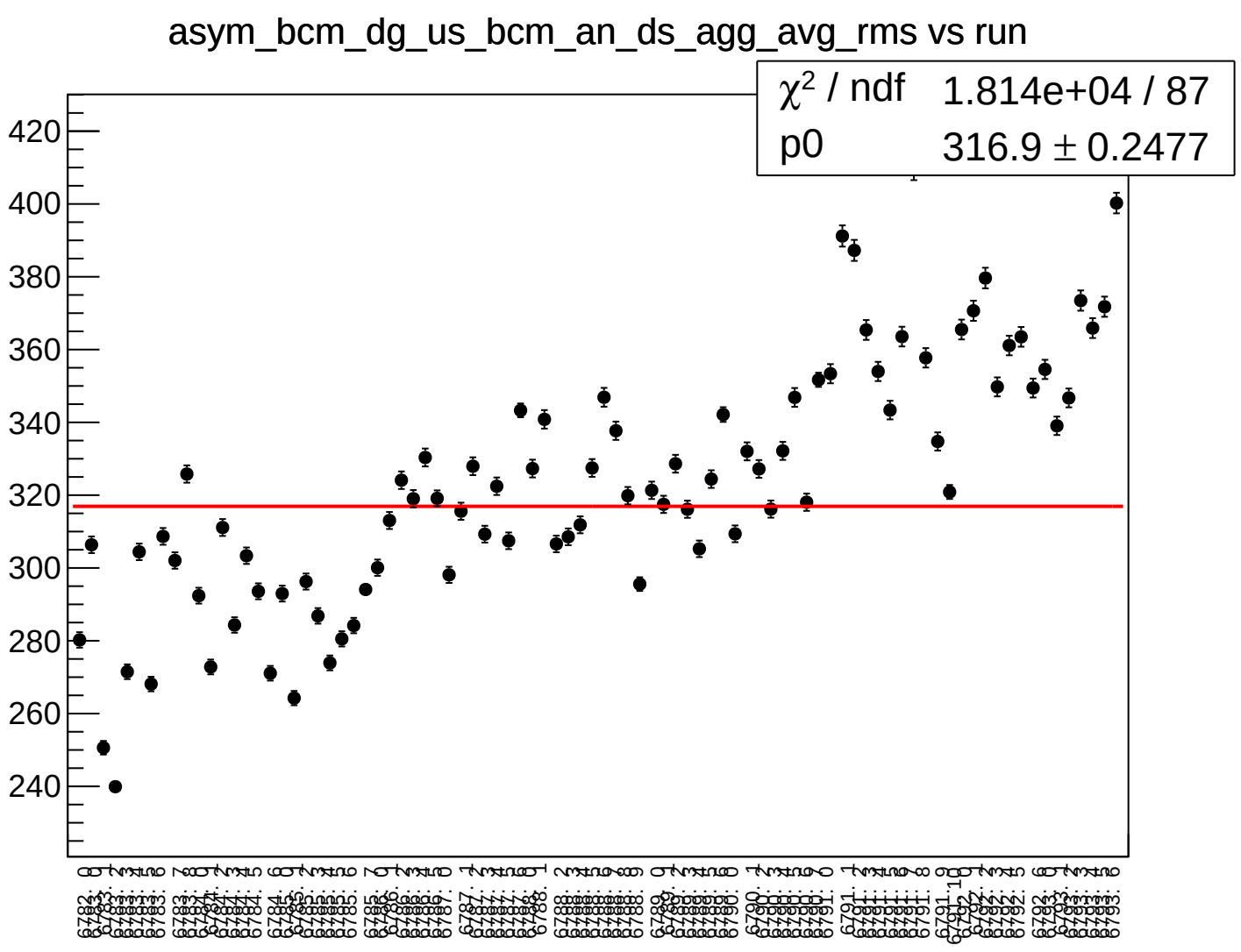

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.83e+04 / 87
p0 315.4 ± 0.2465
420
400
380
360
340
320
300
280
260
240
220

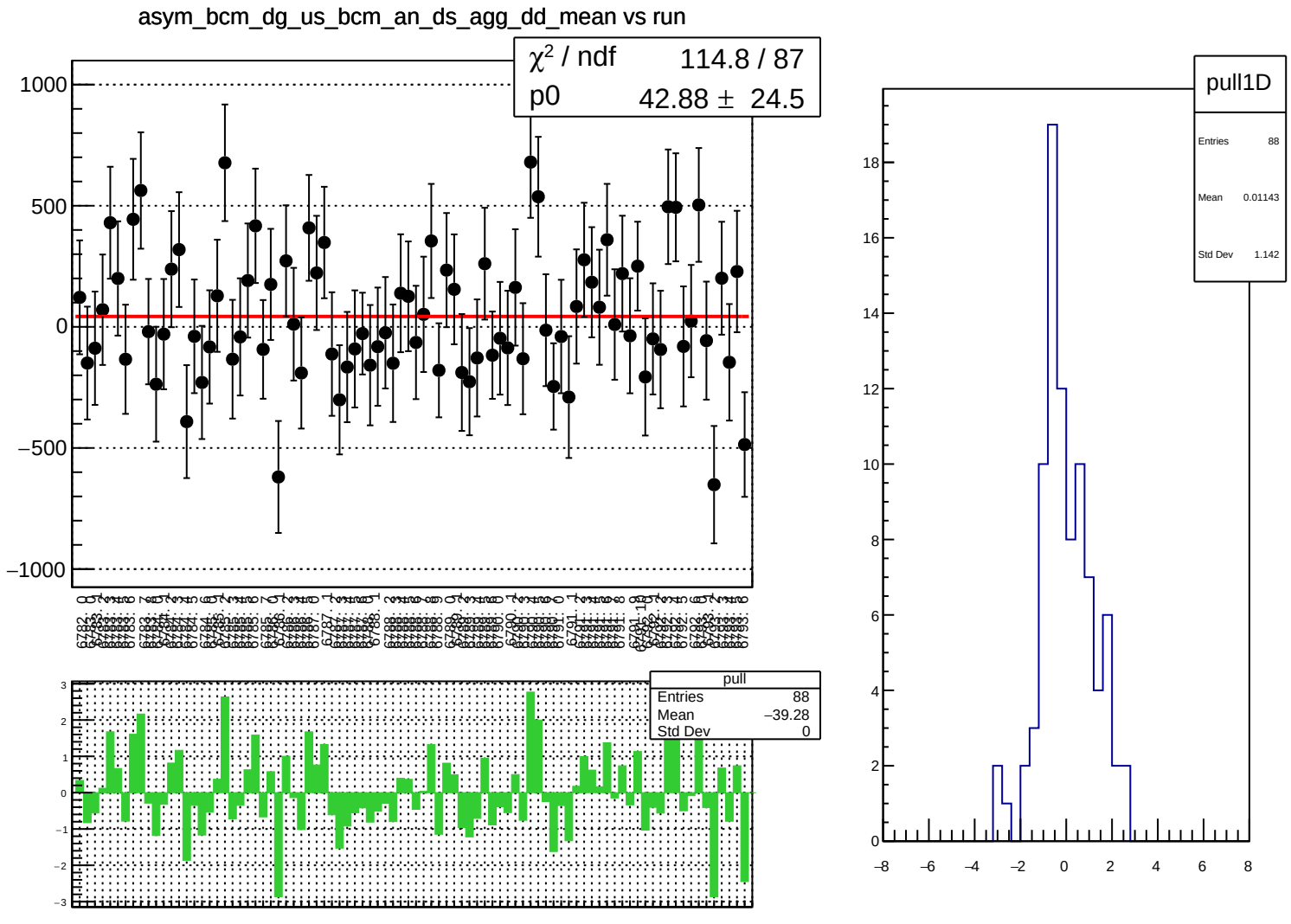

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 88.62 / 87
p0 −13.87 ± 11.57
400
200
0
−200
−400
−600
pull
Entries 88
Mean 1639
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.00128
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

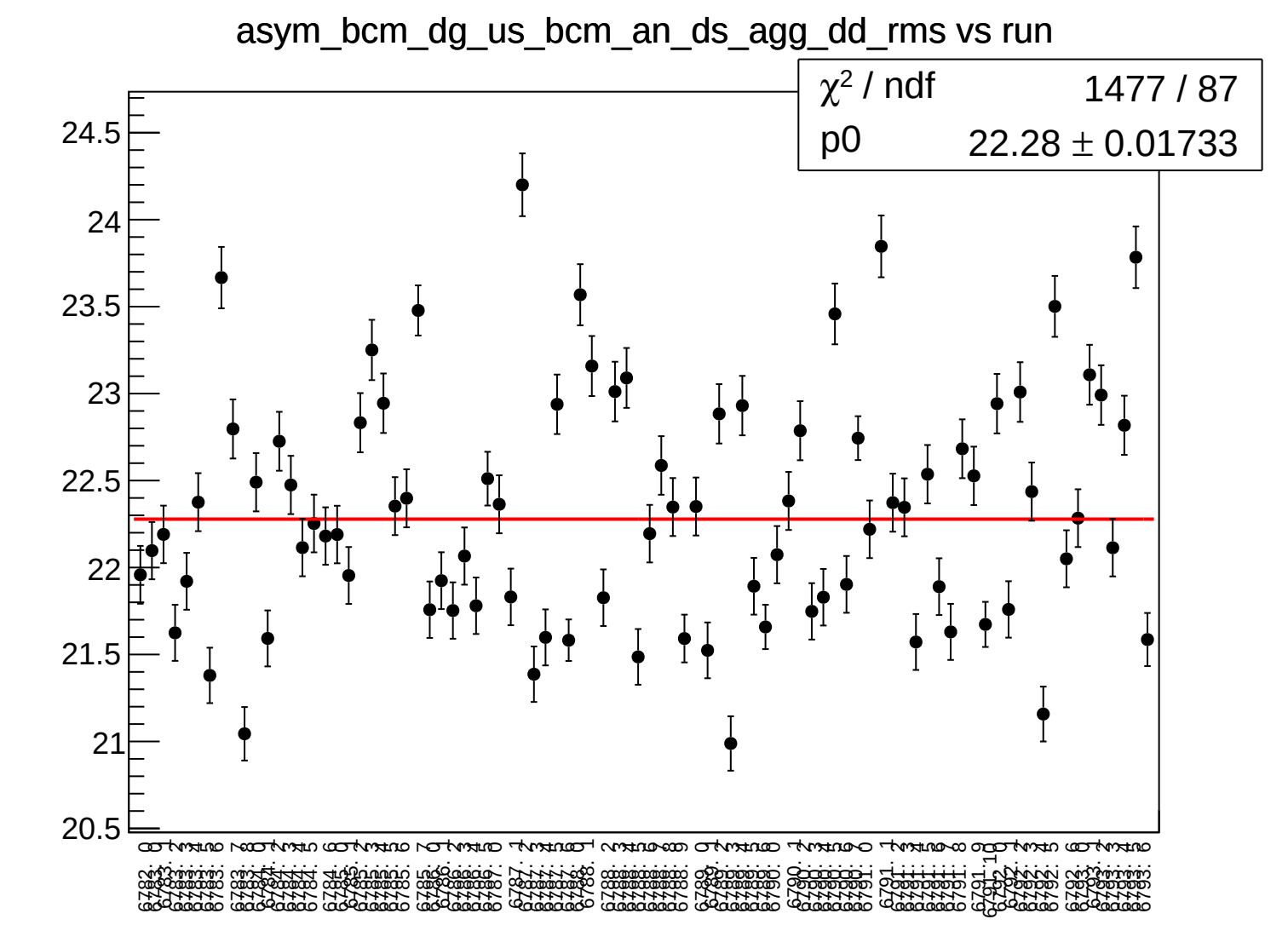

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 2.191e+04 / 87
p0 10.45 ± 0.008181
17
16
15
14
13
12
11
10
9

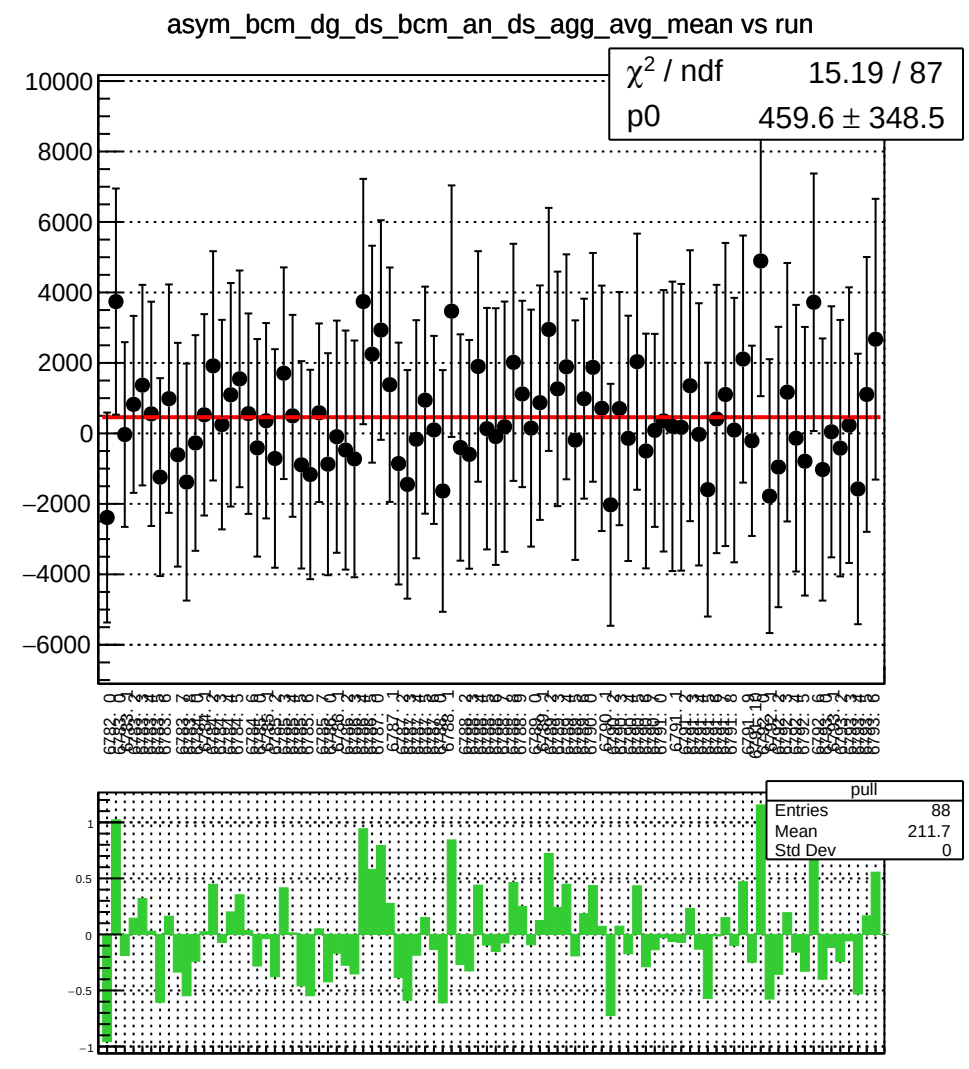

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.27 / 87
p0 517.6 ± 350.3
pull
Entries 88
Mean 155.8
Std Dev 0

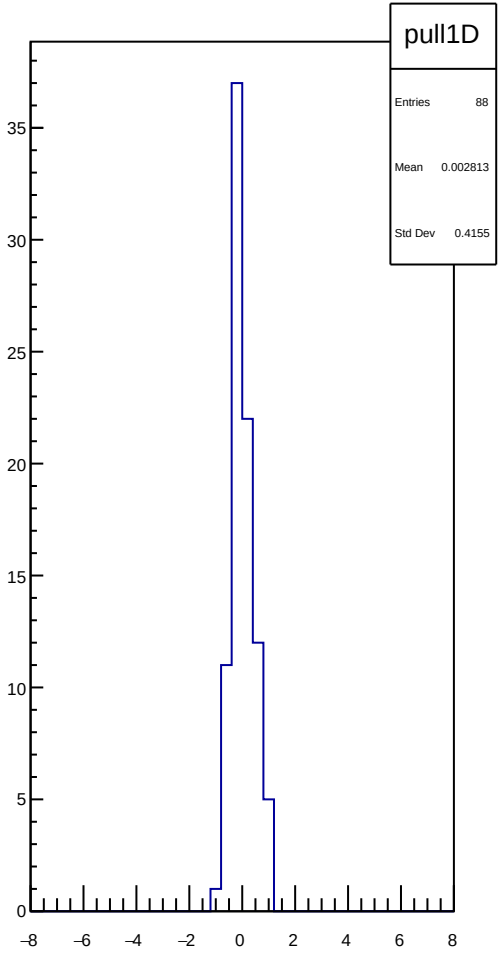

pull1D
Entries 88
Mean 0.003024
Std Dev 0.4165

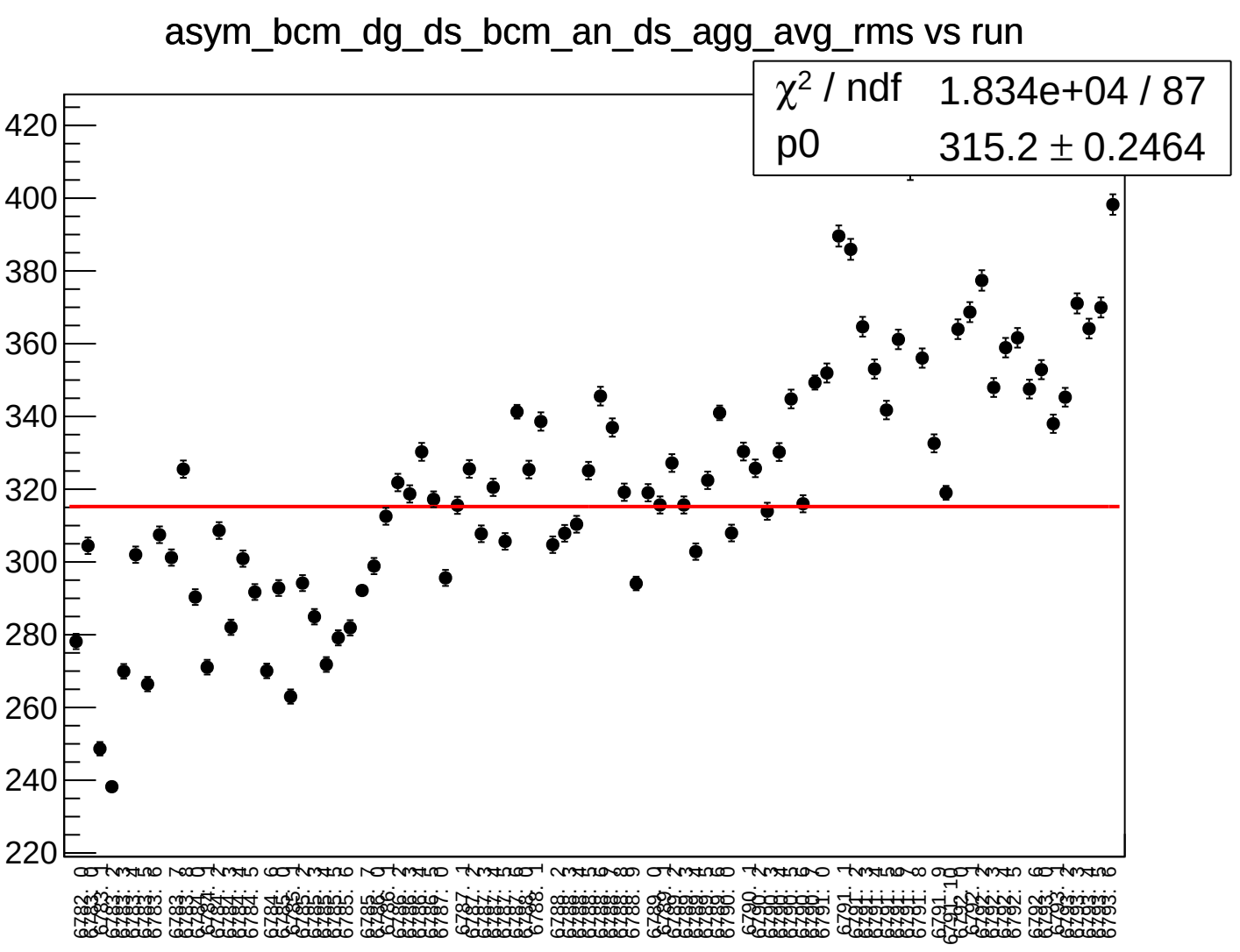

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.814e+04 / 87
p0 316.9 ± 0.2477
420
400
380
360
340
320
300
280
260
240

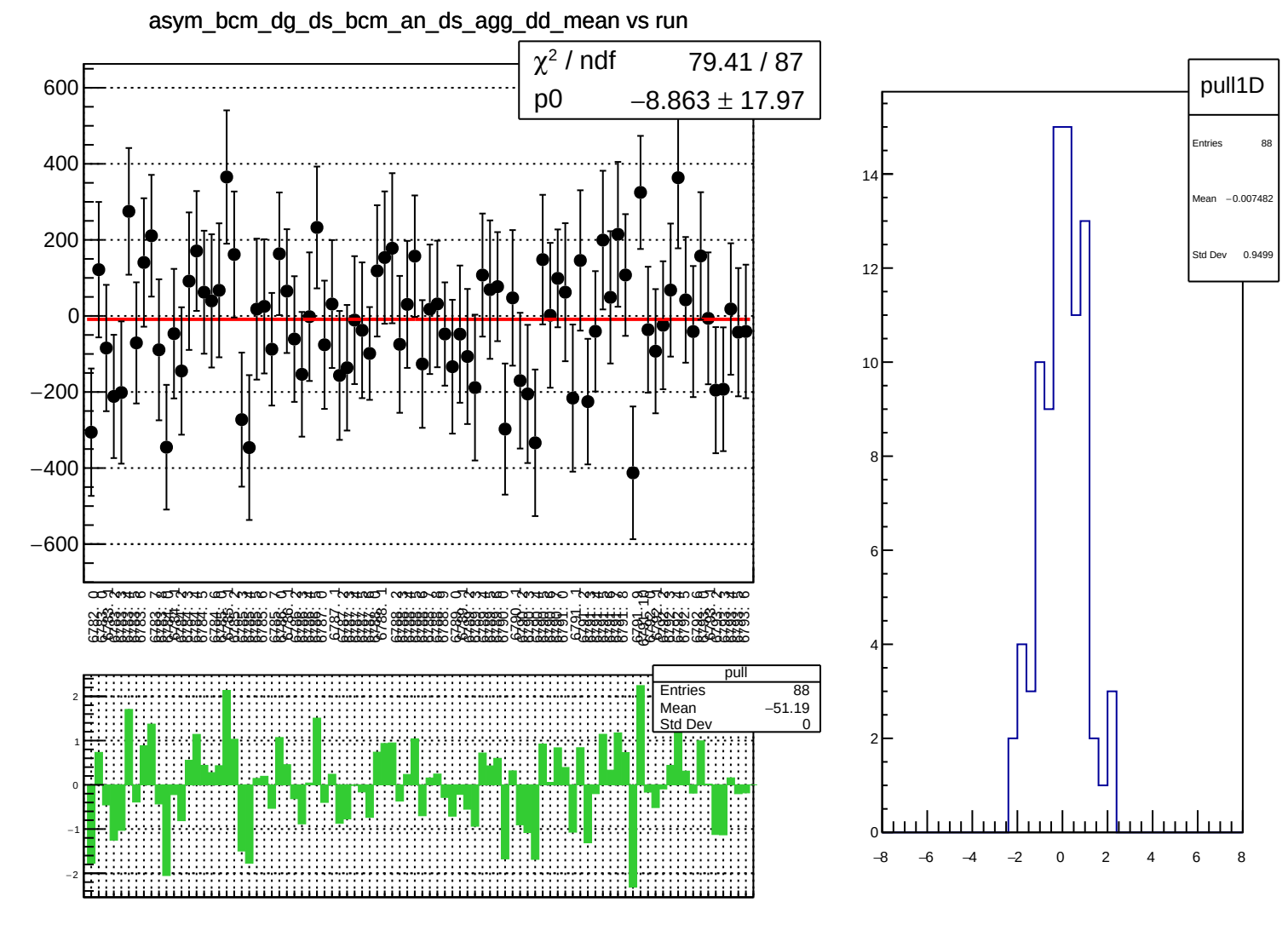

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 114.8 / 87
p0 42.88 ± 24.5
1000
500
0
−500
−1000
pull
Entries 88
Mean −39.28
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01143
Std Dev 1.142
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

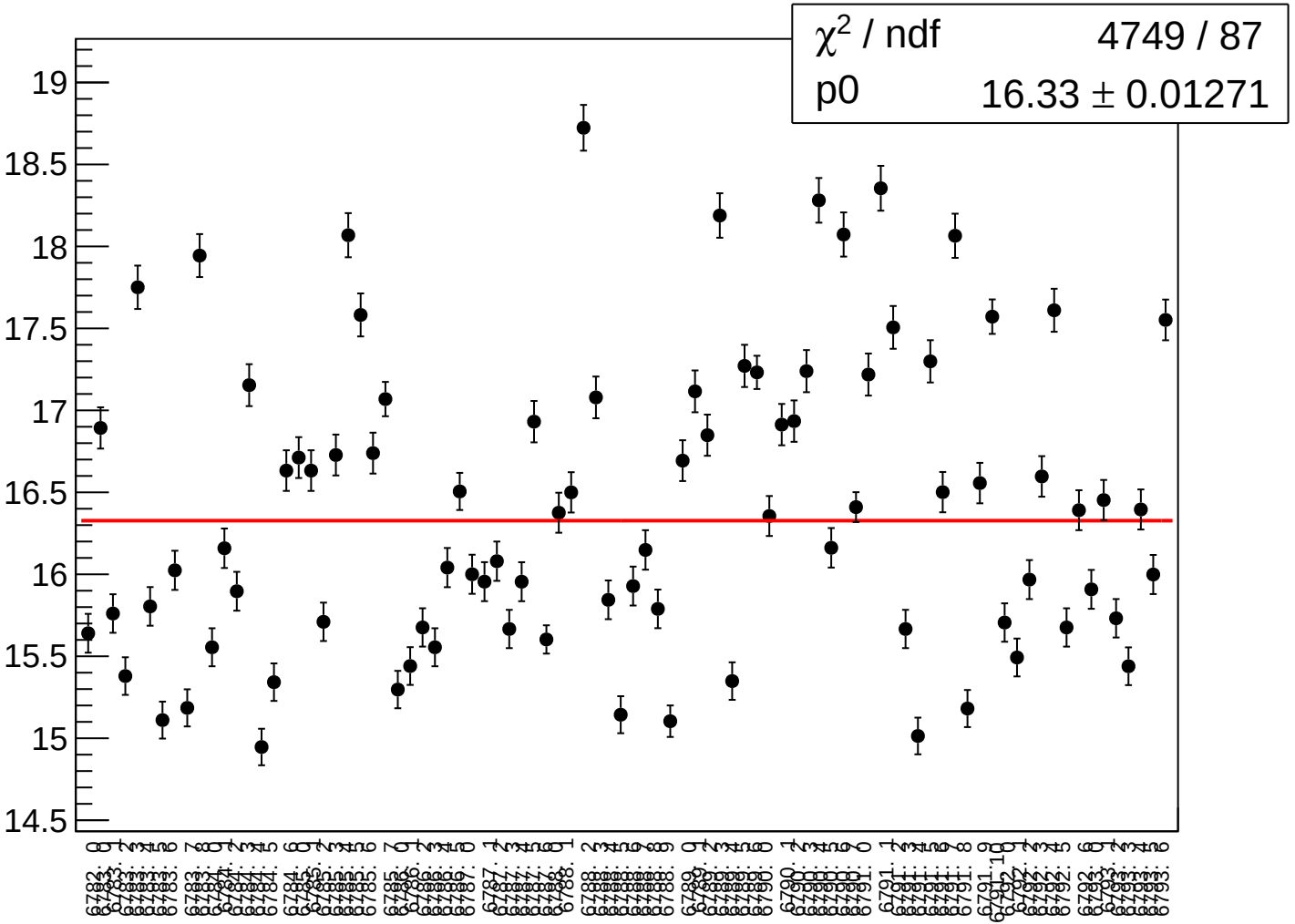

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1477 / 87
p0 22.28 ± 0.01733
24.5
24
23.5
23
22.5
22
21.5
21
20.5

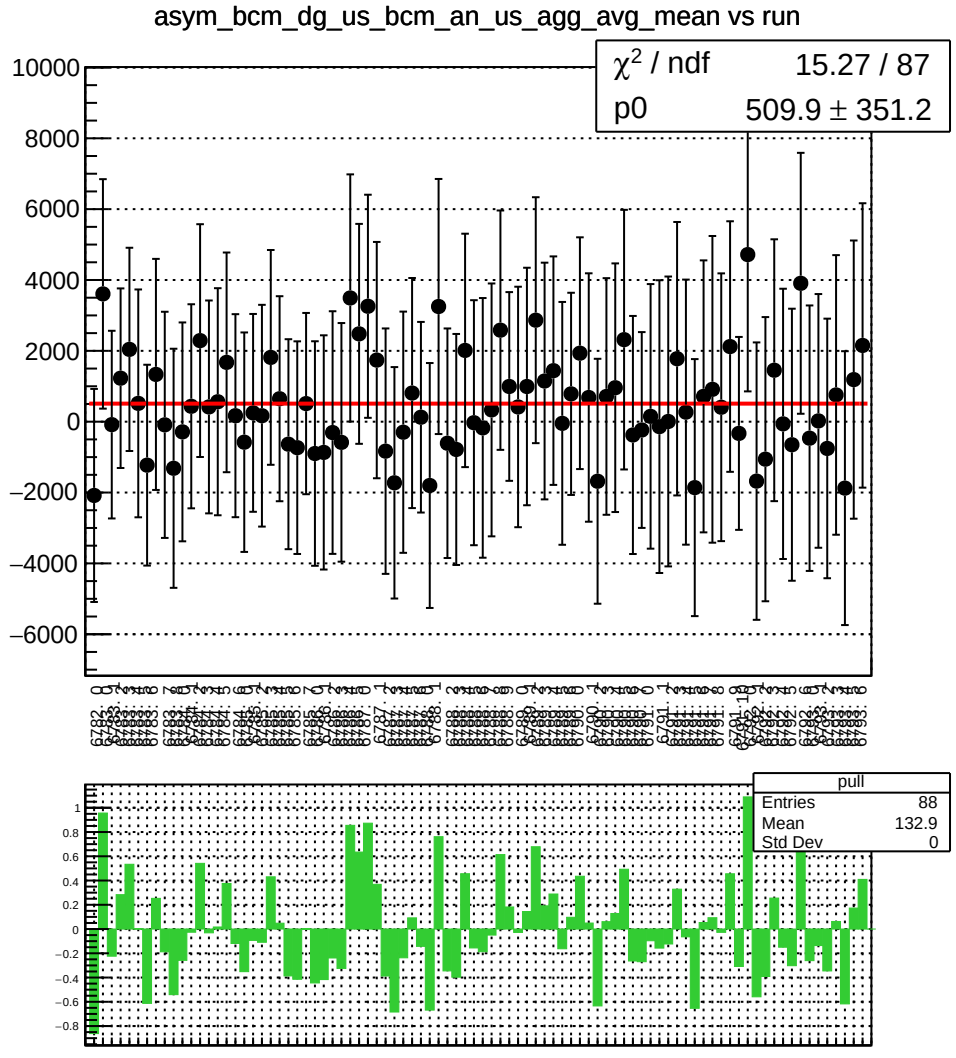

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.19 / 87
p0 459.6 ± 348.5
pull
Entries 88
Mean 211.7
Std Dev 0

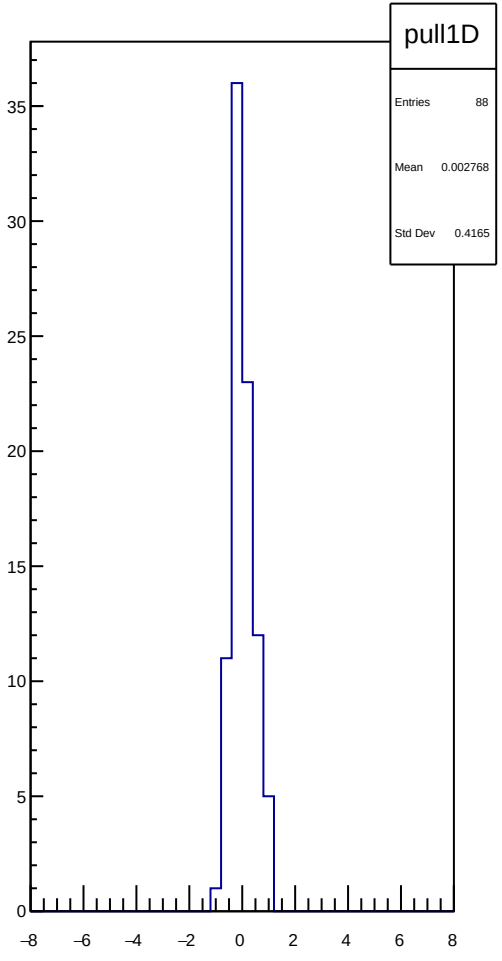

pull1D
Entries 88
Mean 0.002813
Std Dev 0.4155

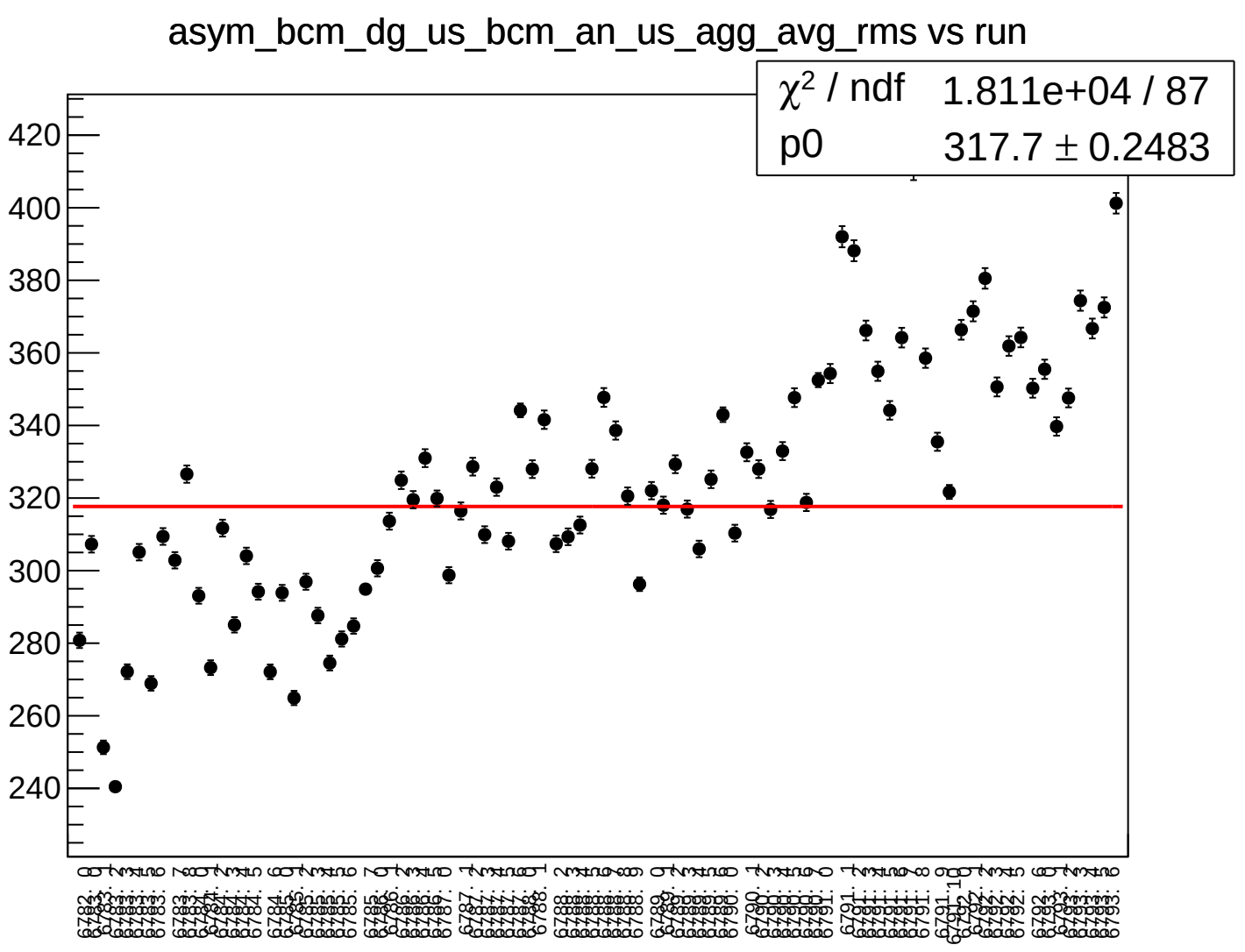

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.834e+04 / 87
p0 315.2 ± 0.2464
420
400
380
360
340
320
300
280
260
240
220

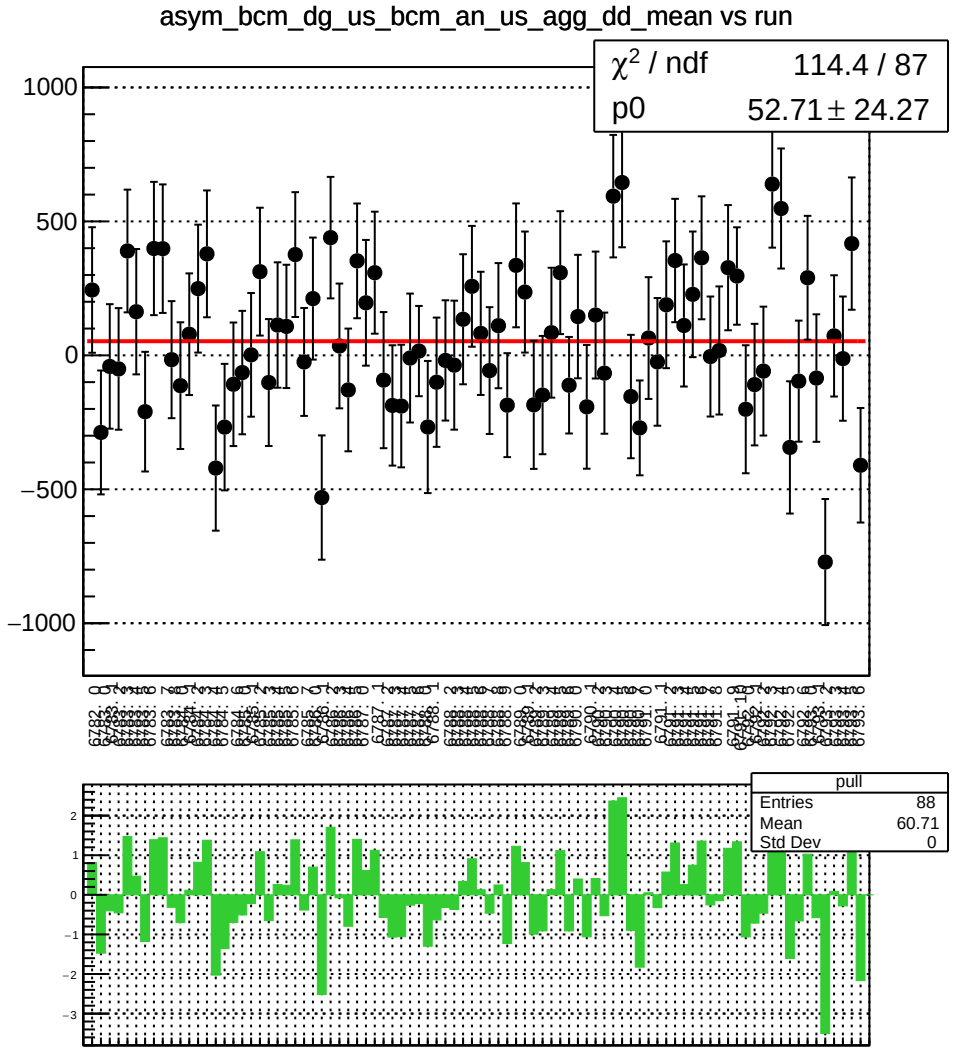

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.41 / 87
p0 −8.863 ± 17.97
pull
Entries 88
Mean −51.19
Std Dev 0
pull1D
Entries 88
Mean −0.007482
Std Dev 0.9499

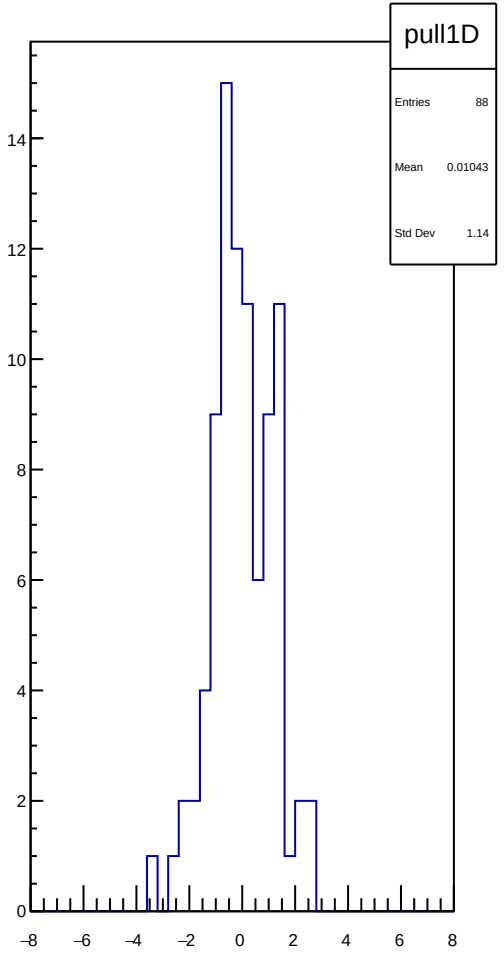

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4749 / 87
p0 16.33 ± 0.01271
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

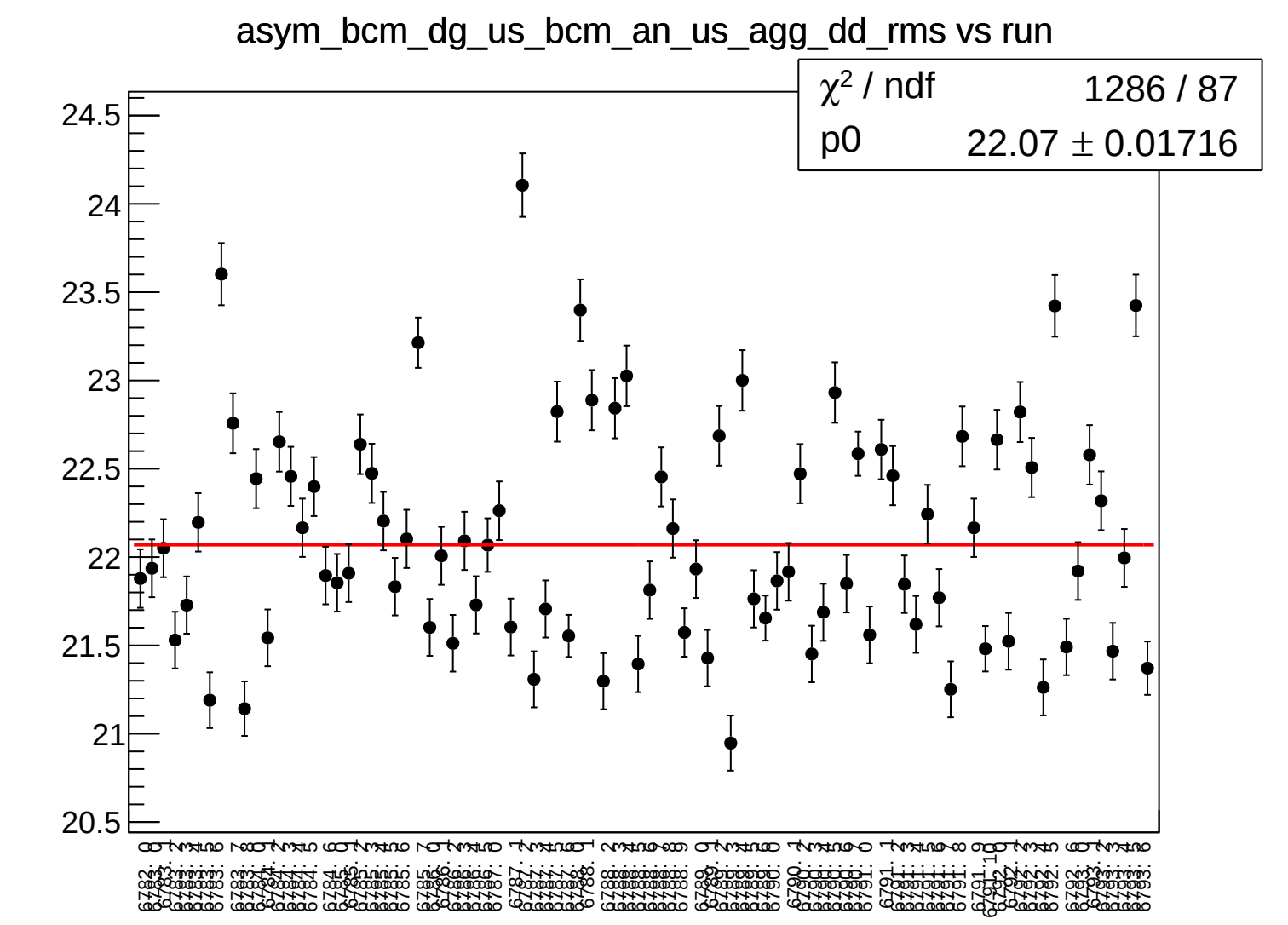

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.27 / 87
p0 509.9 ± 351.2
pull
Entries 88
Mean 132.9
Std Dev 0

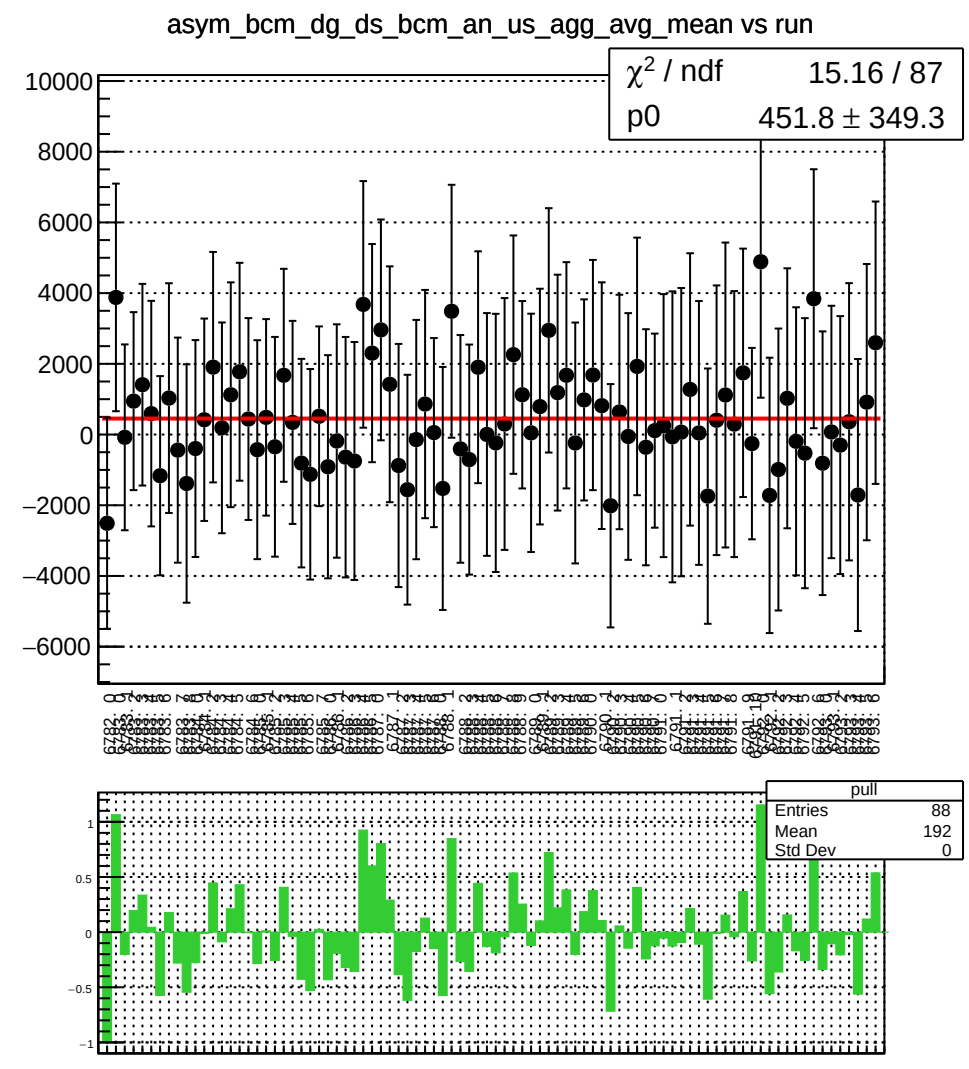

pull1D
Entries 88
Mean 0.002768
Std Dev 0.4165

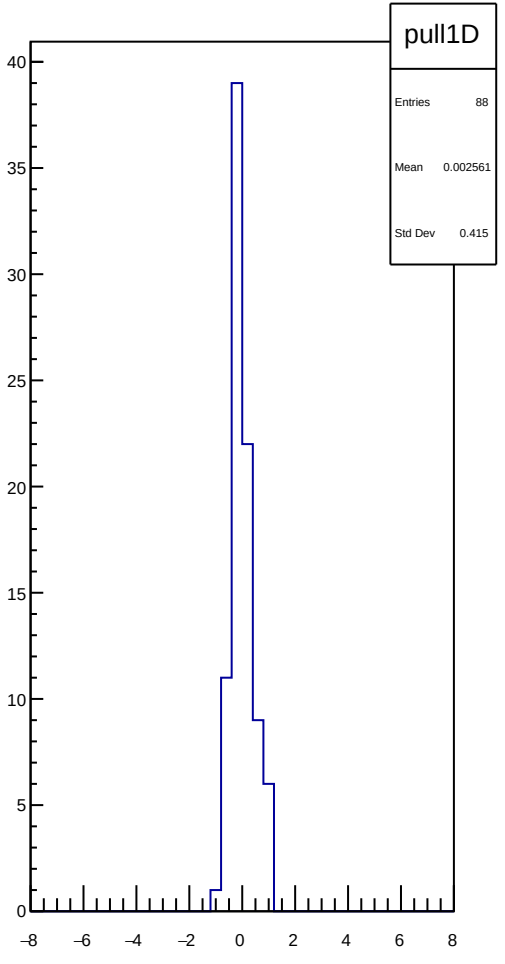

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.811e+04 / 87
p0 317.7 ± 0.2483
420
400
380
360
340
320
300
280
260
240

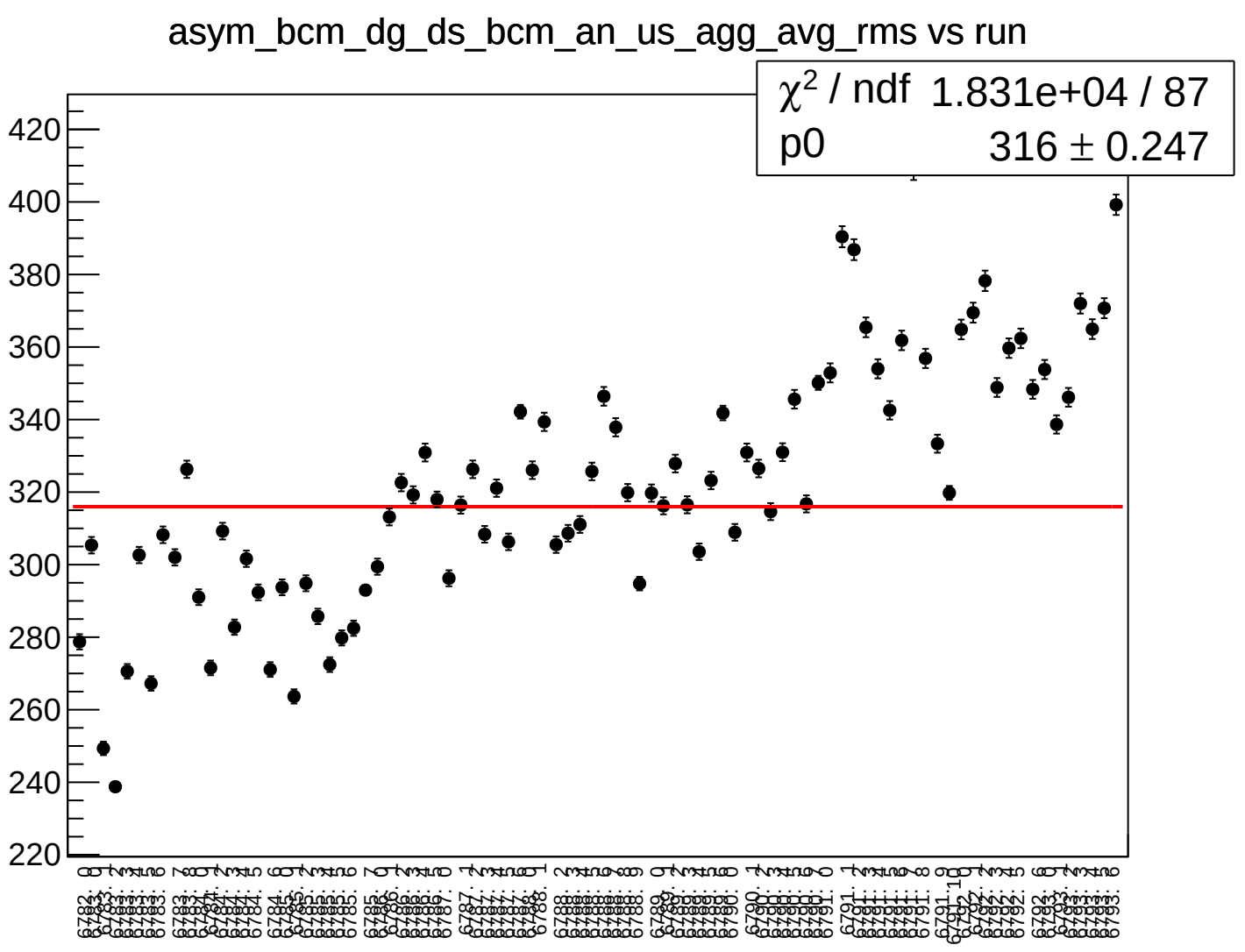

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 114.4 / 87
p0 52.71 ± 24.27
1000
500
0
−500
−1000
pull
Entries 88
Mean 60.71
Std Dev 0
2
1
0
−1
−2
−3

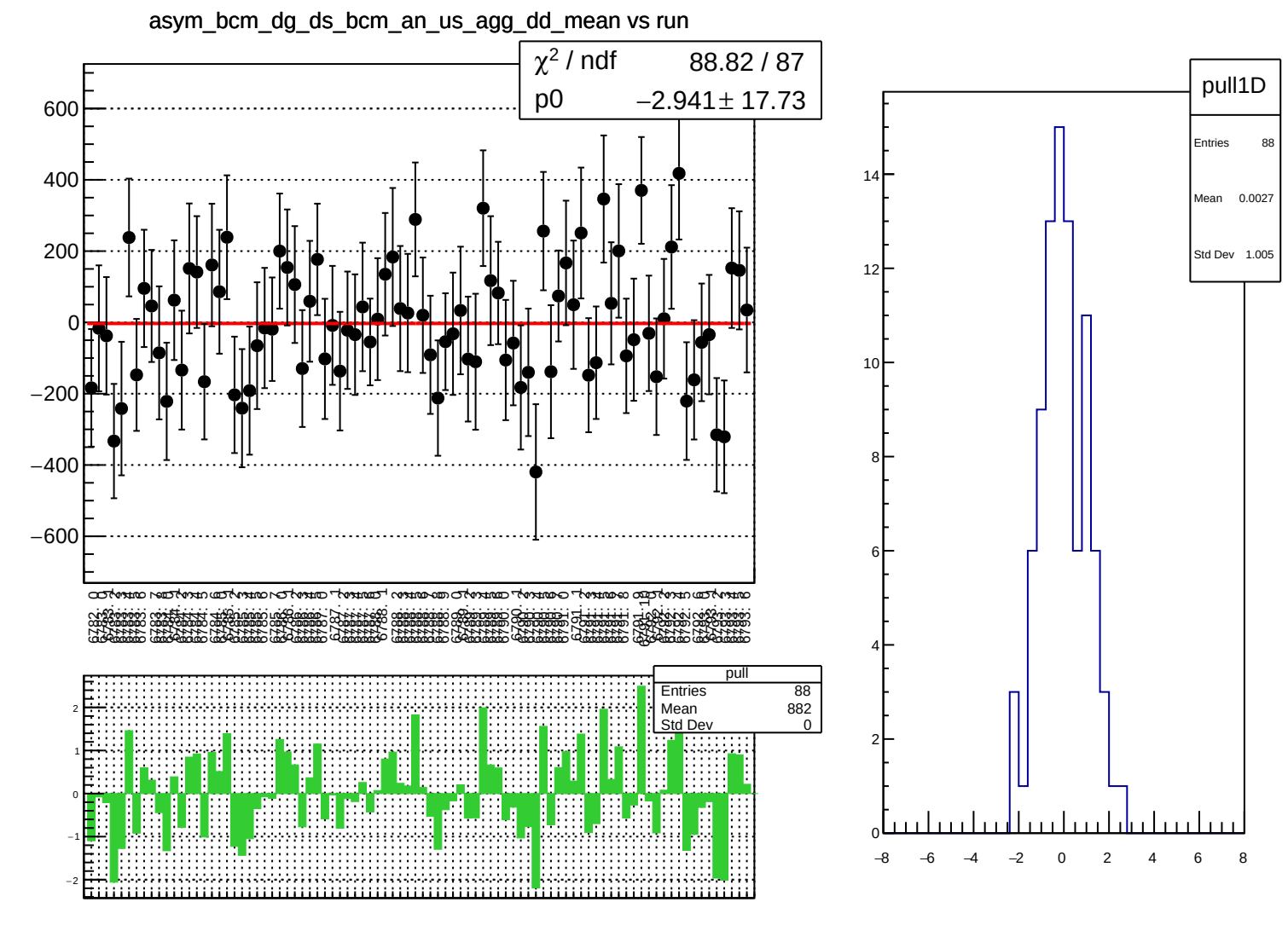

pull1D
Entries 88
Mean 0.01043
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

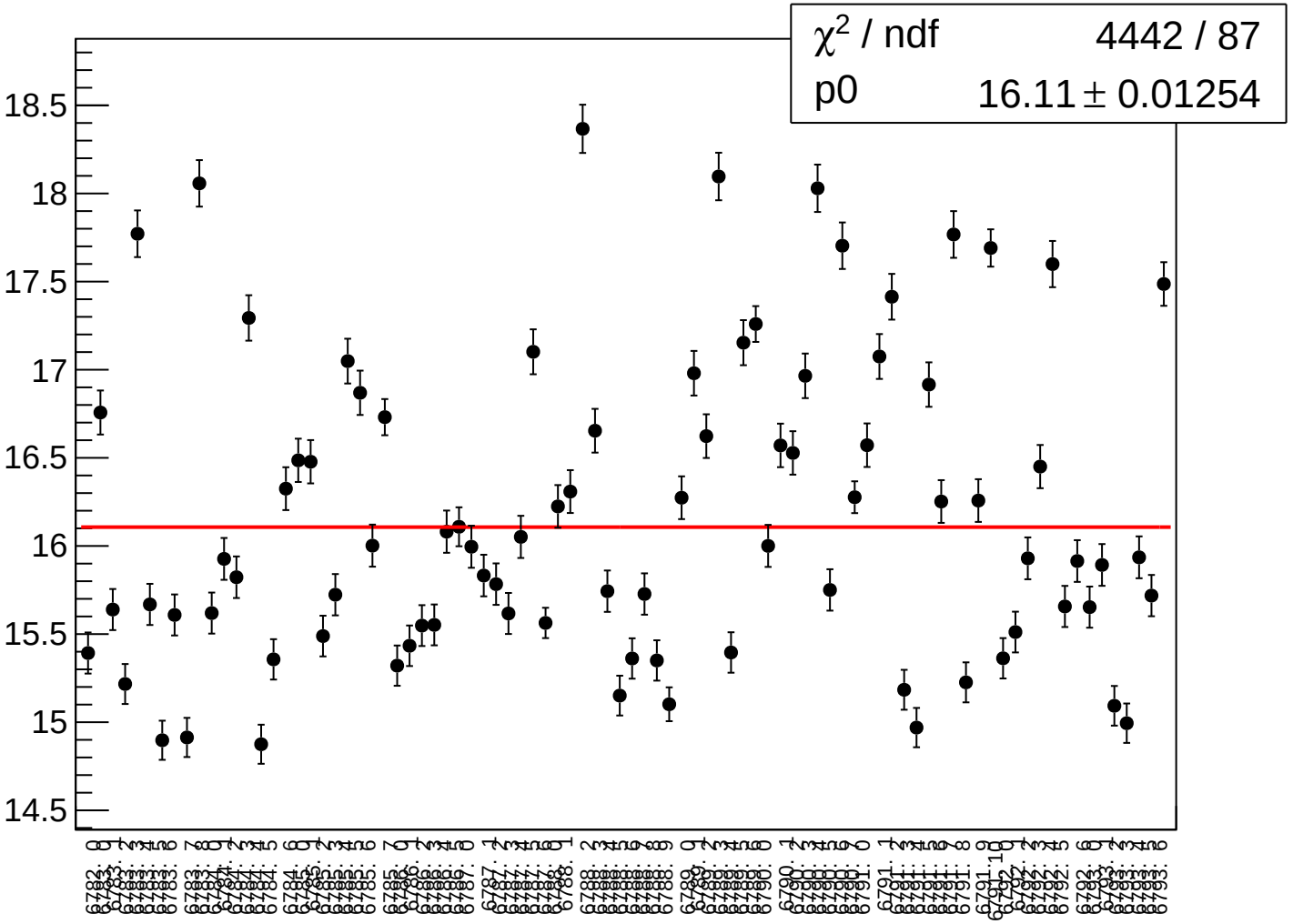

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1286 / 87
p0 22.07 ± 0.01716
24.5
24
23.5
23
22.5
22
21.5
21
20.5

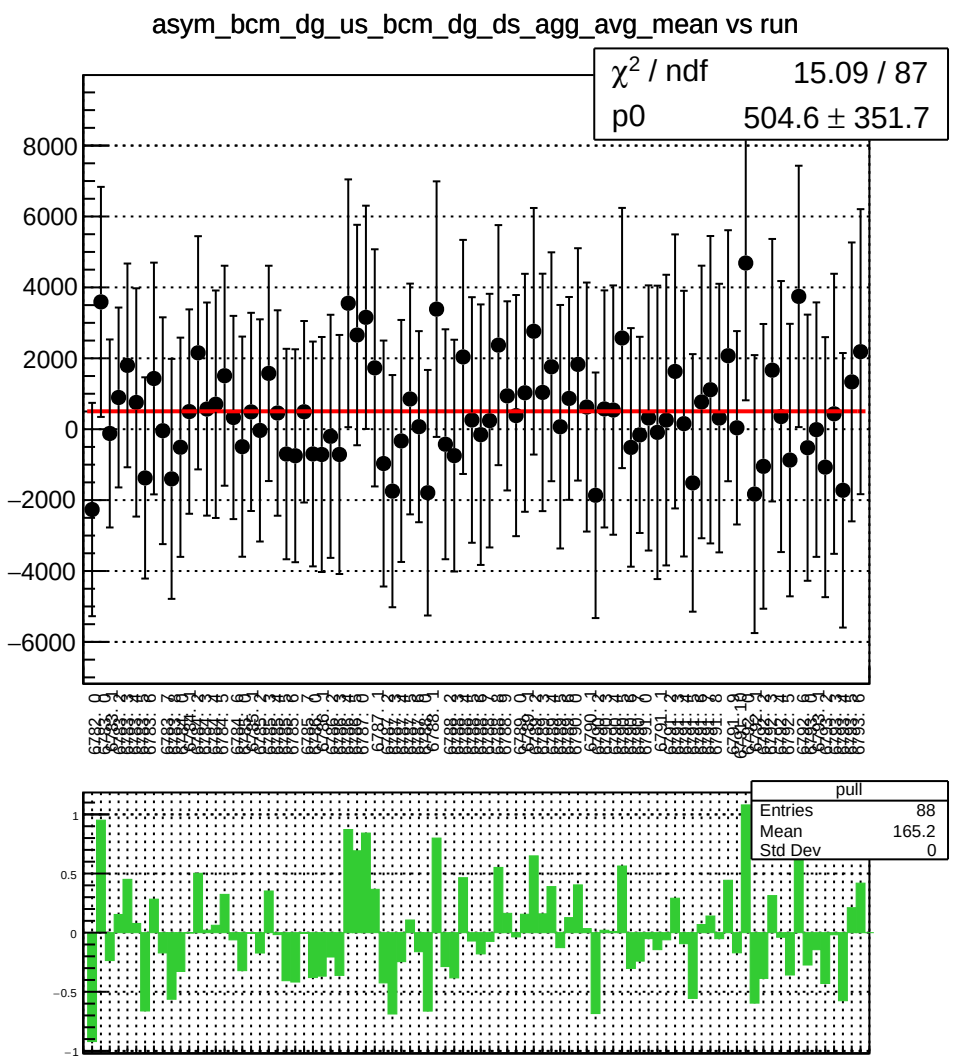

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.16 / 87
p0 451.8 ± 349.3
pull
Entries 88
Mean 192
Std Dev 0

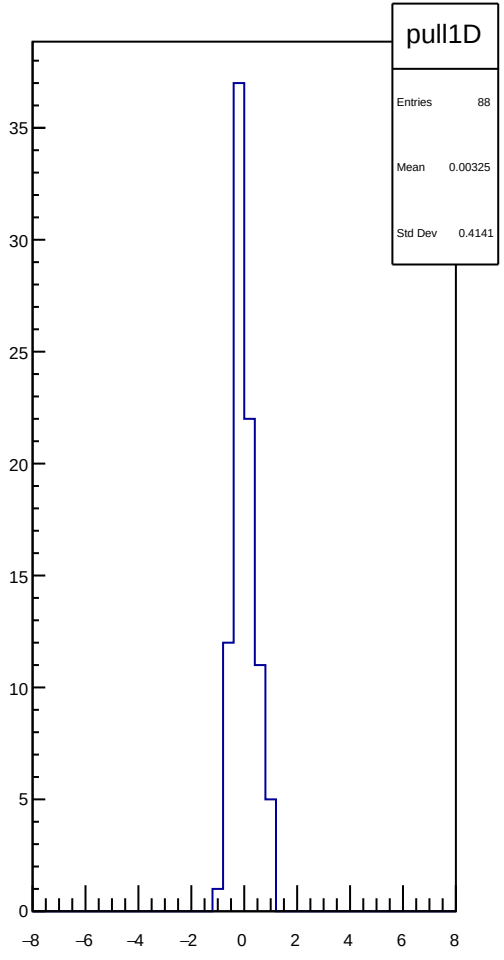

pull1D
Entries 88
Mean 0.002561
Std Dev 0.415

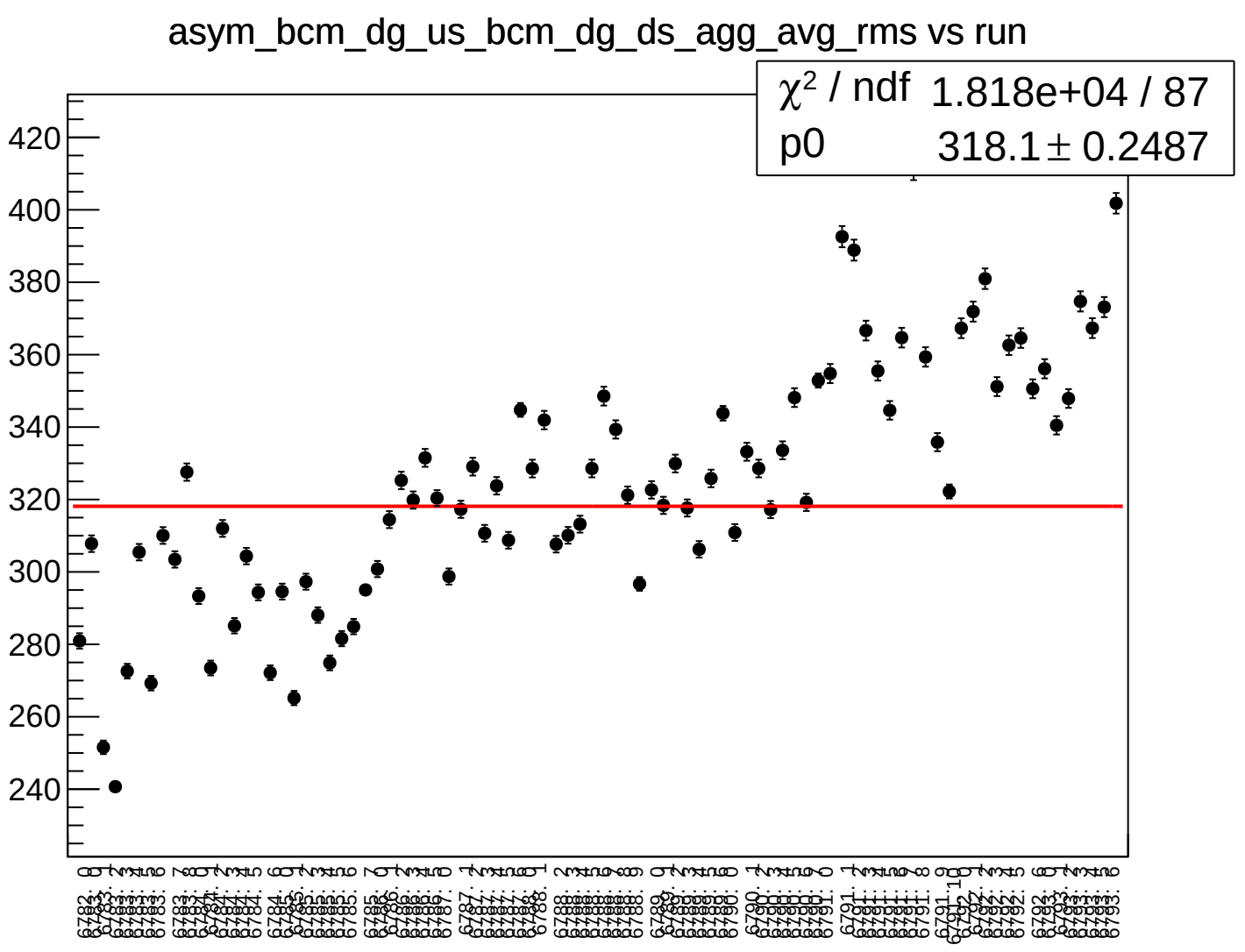

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.831e+04 / 87
p0 316 ± 0.247
420
400
380
360
340
320
300
280
260
240
220

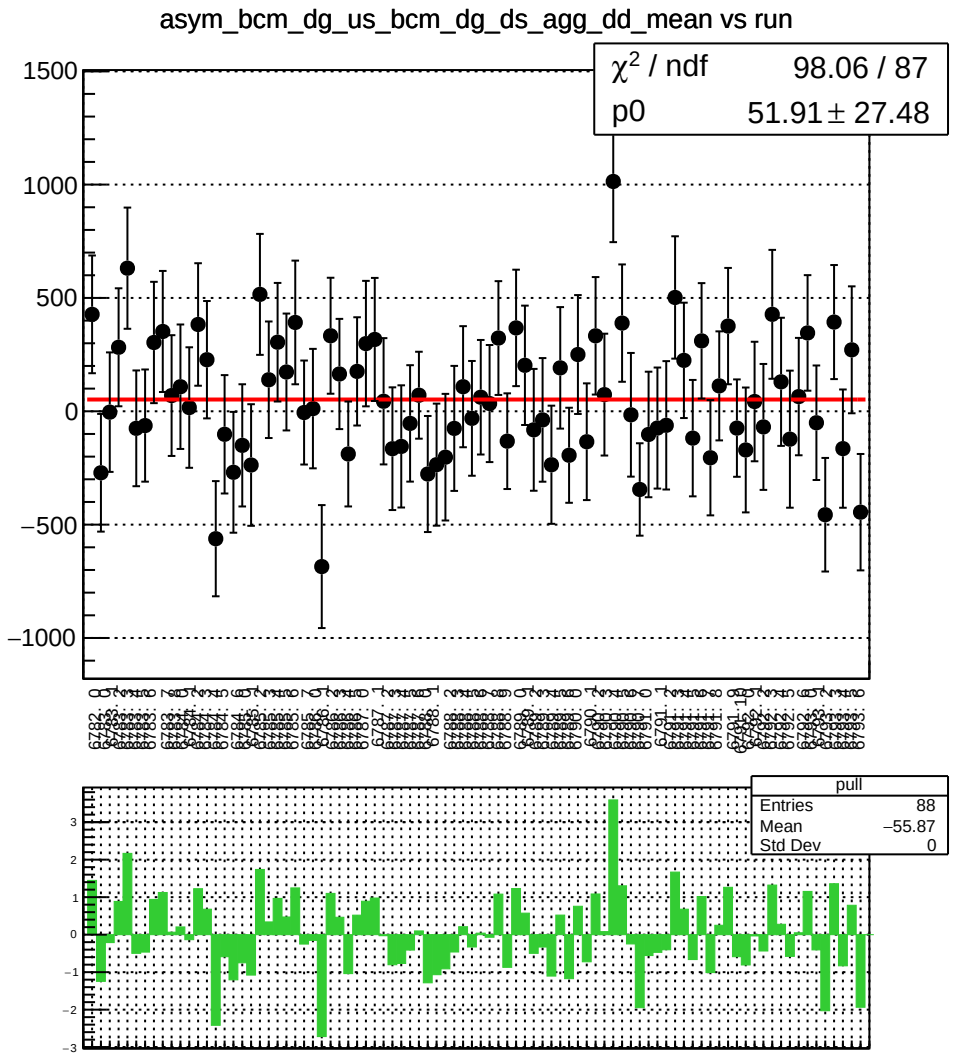

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.82 / 87
p0 −2.941 ± 17.73
pull
Entries 88
Mean 882
Std Dev 0
pull1D
Entries 88
Mean 0.0027
Std Dev 1.005

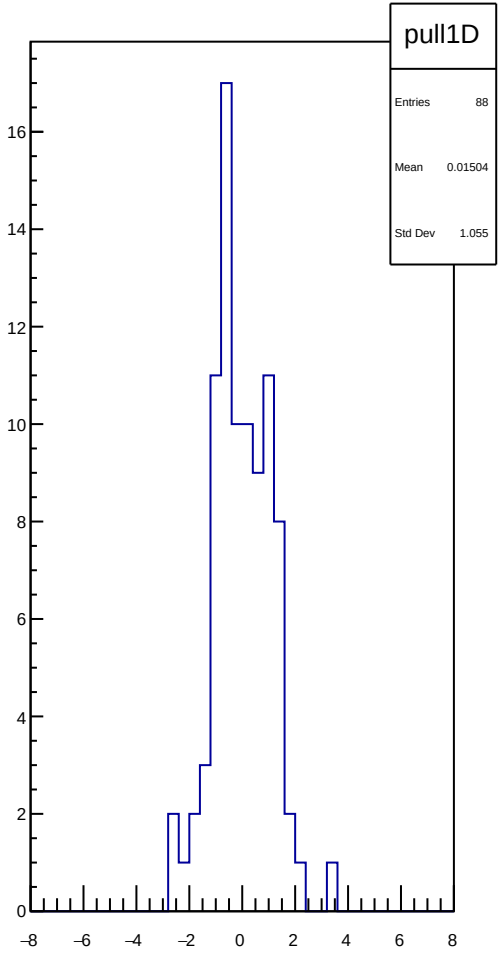

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4442 / 87
p0 16.11 ± 0.01254
18.5
18
17.5
17
16.5
16
15.5
15
14.5

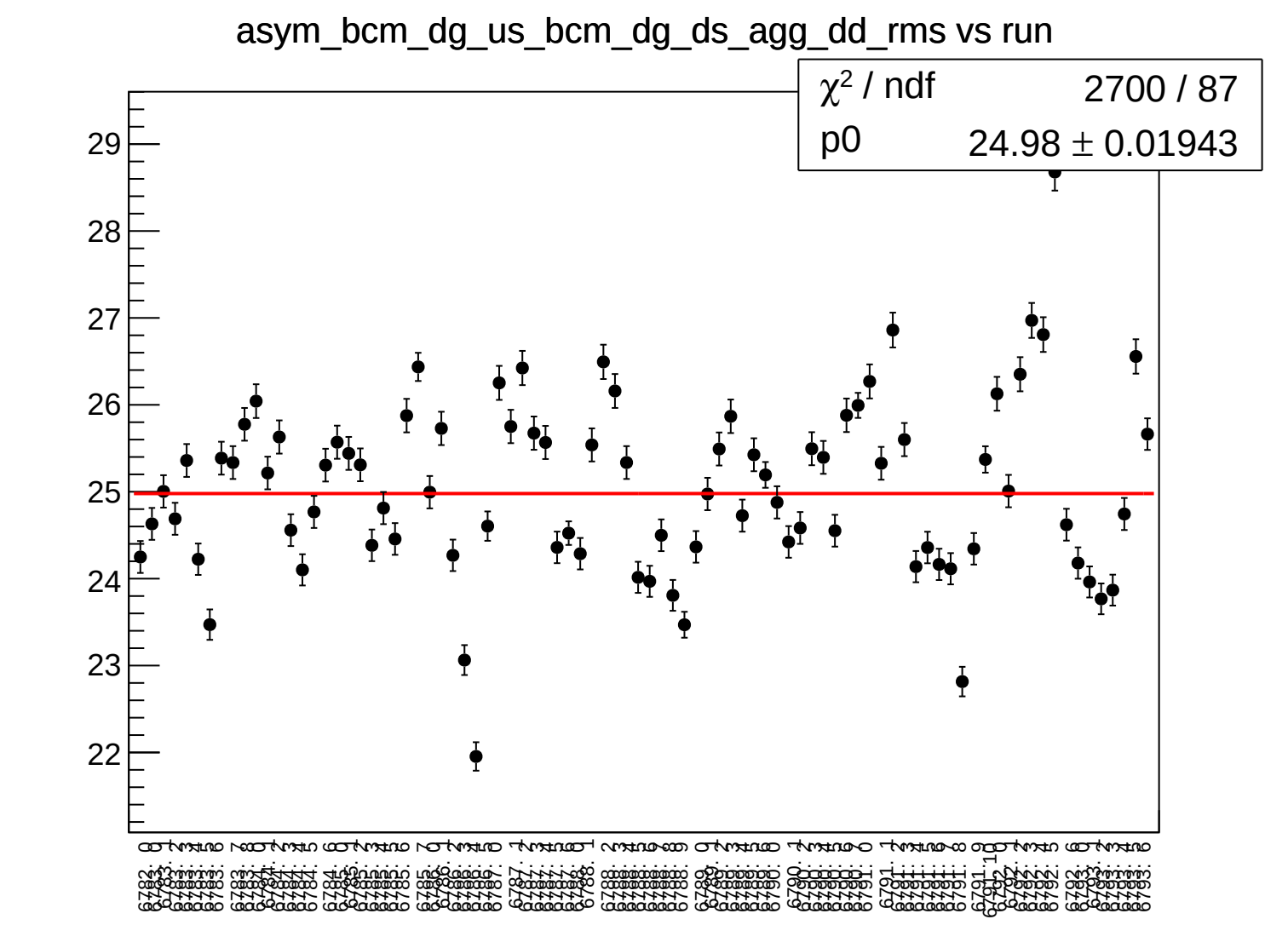

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.09 / 87
p0 504.6 ± 351.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 165.2
Std Dev 0
1
0.5
0
−0.5
−1

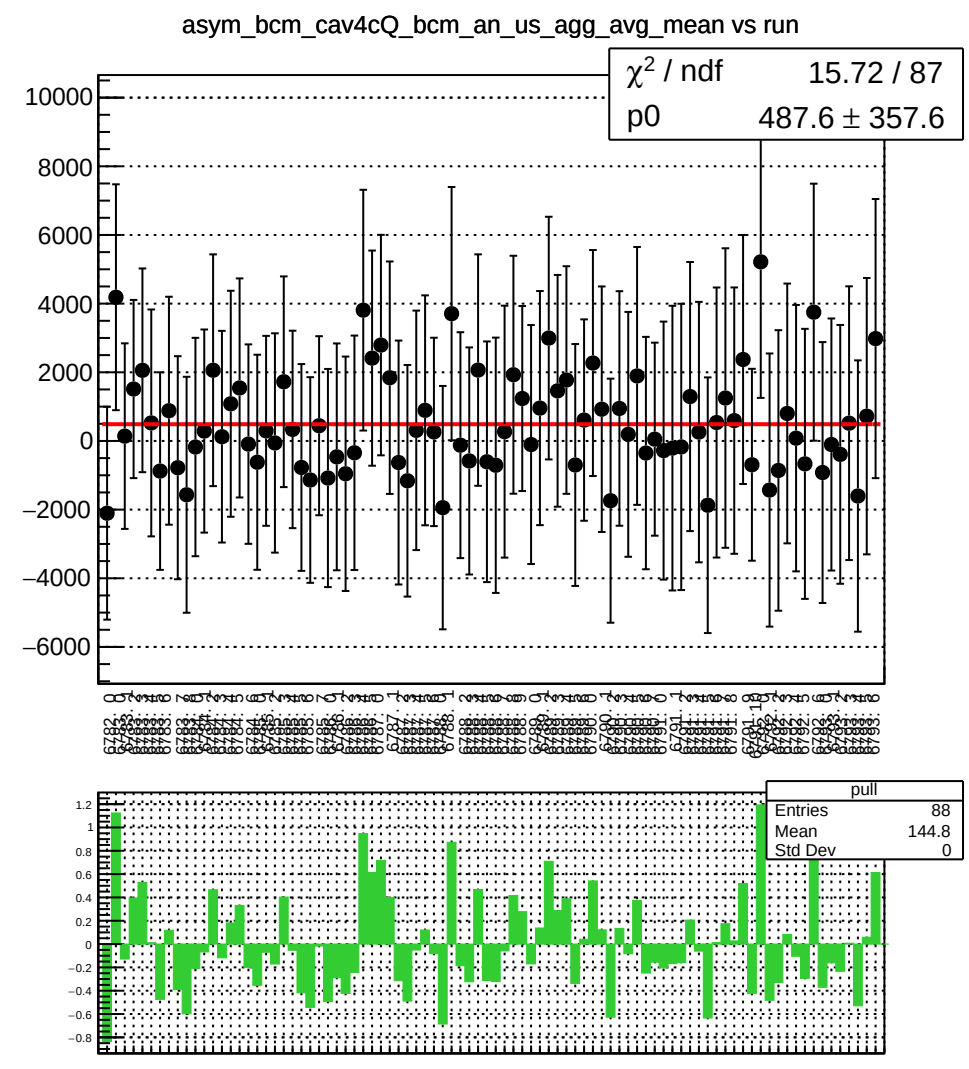

pull1D
Entries 88
Mean 0.00325
Std Dev 0.4141
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

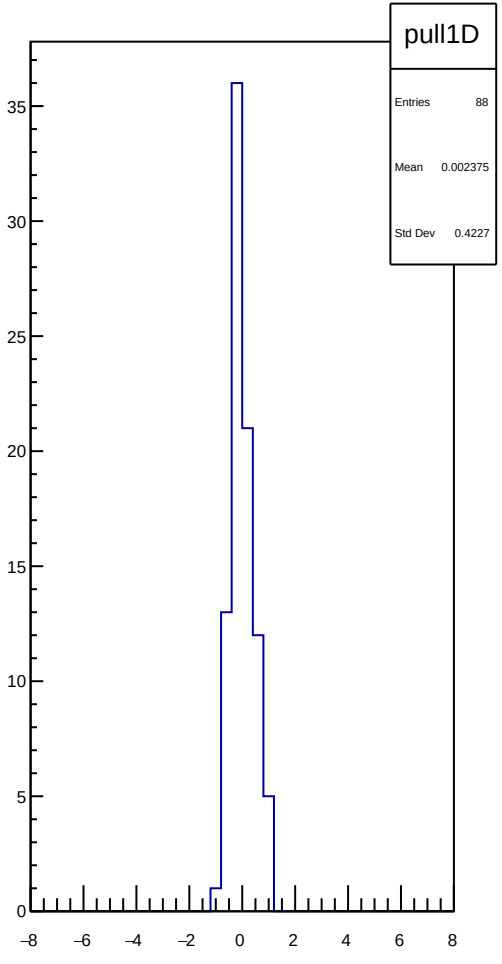

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.818e+04 / 87
p0 318.1 ± 0.2487
420
400
380
360
340
320
300
280
260
240

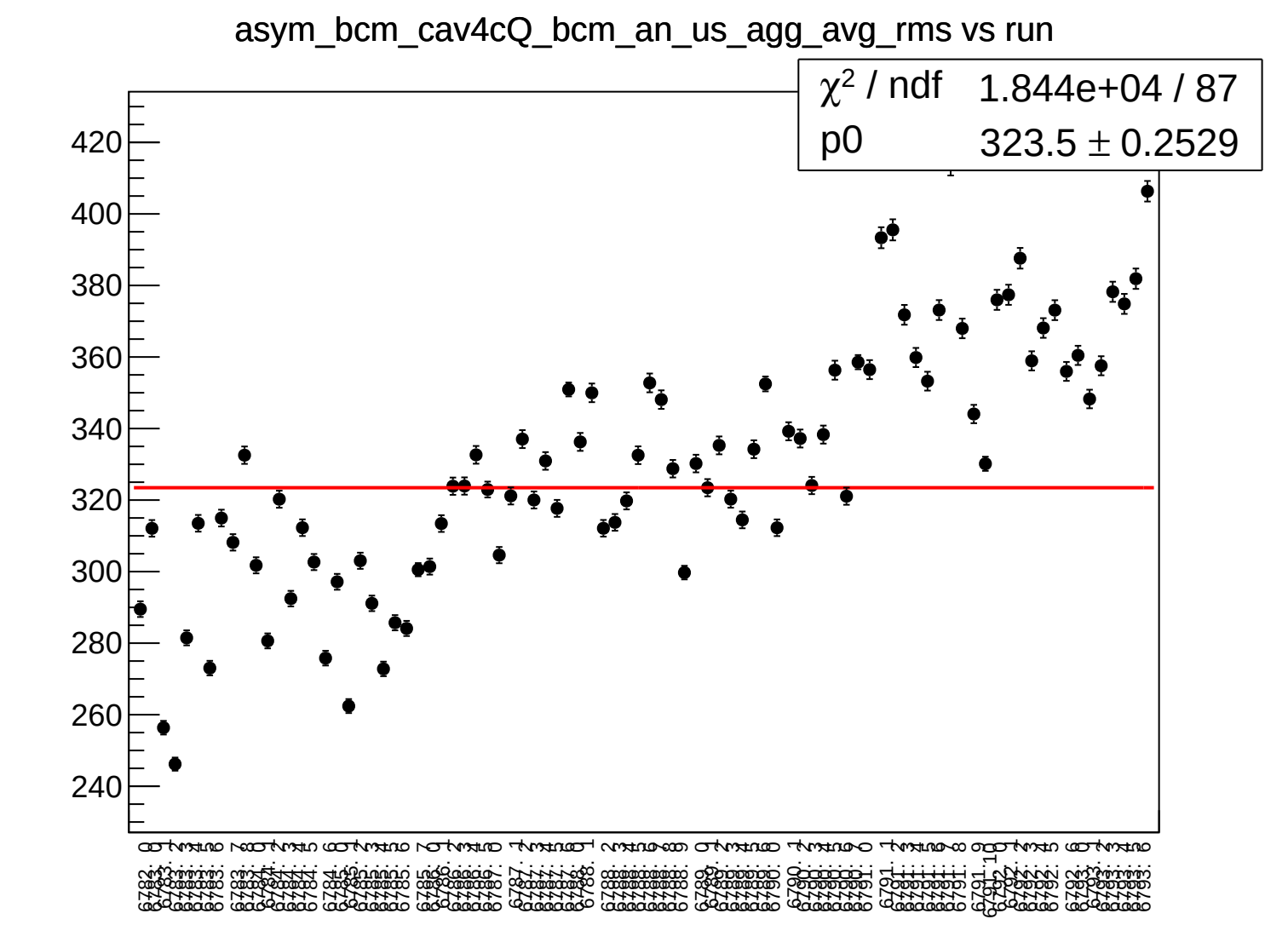

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 98.06 / 87
p0 51.91 ± 27.48
pull
Entries 88
Mean −55.87
Std Dev 0

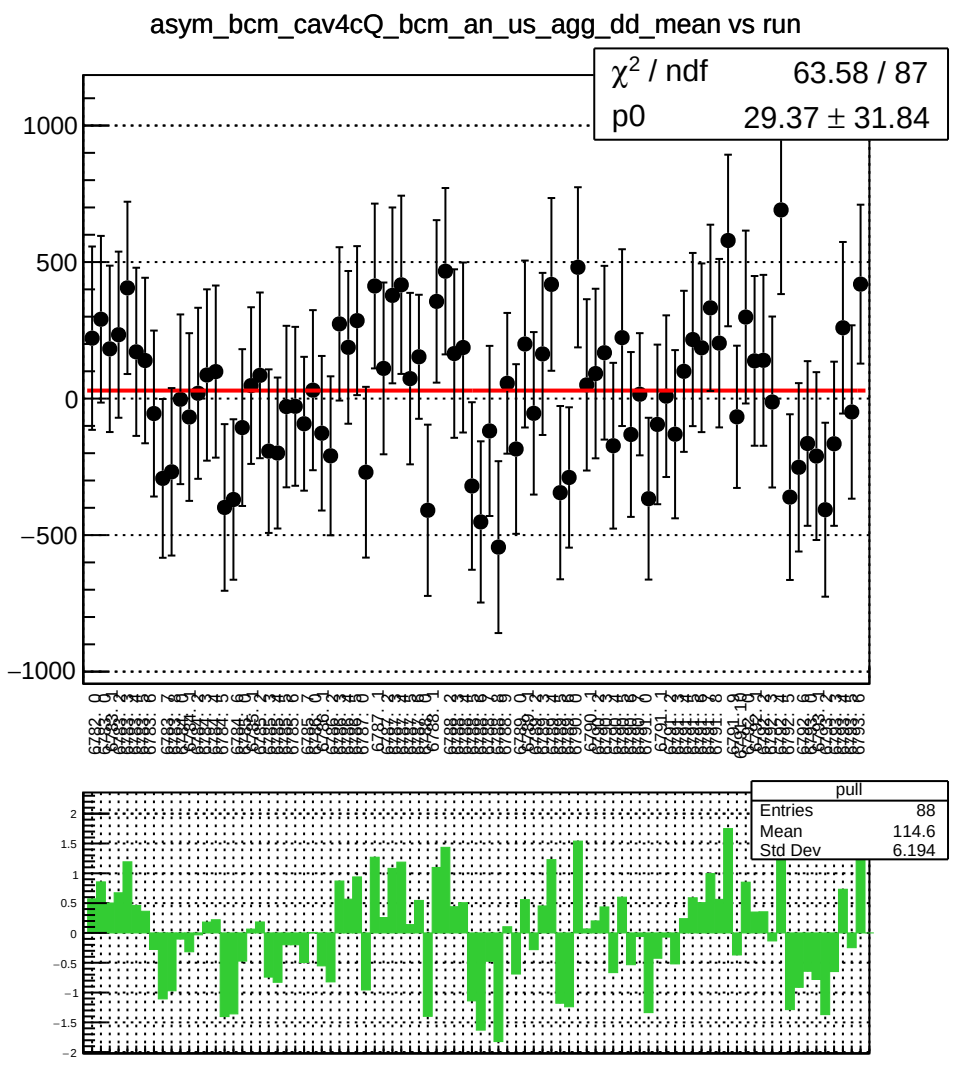

pull1D
Entries 88
Mean 0.01504
Std Dev 1.055

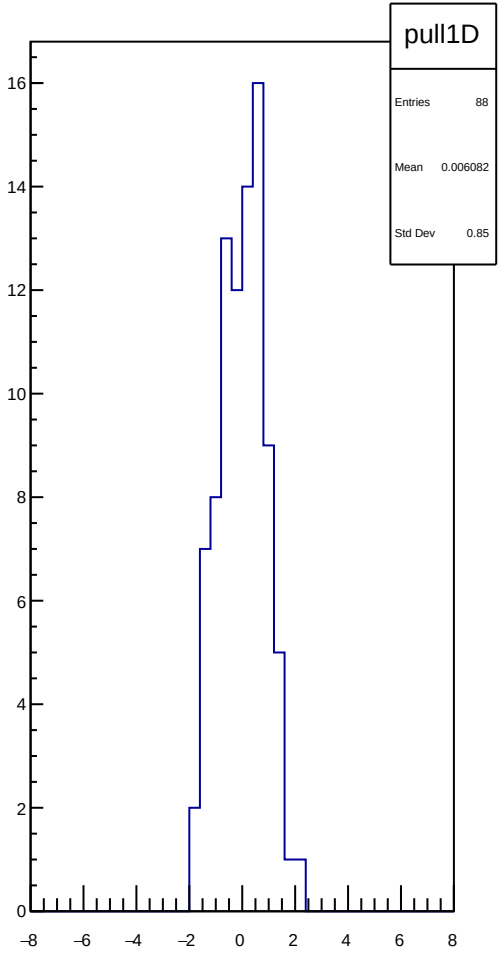

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2700 / 87
p0 24.98 ± 0.01943
29
28
27
26
25
24
23
22

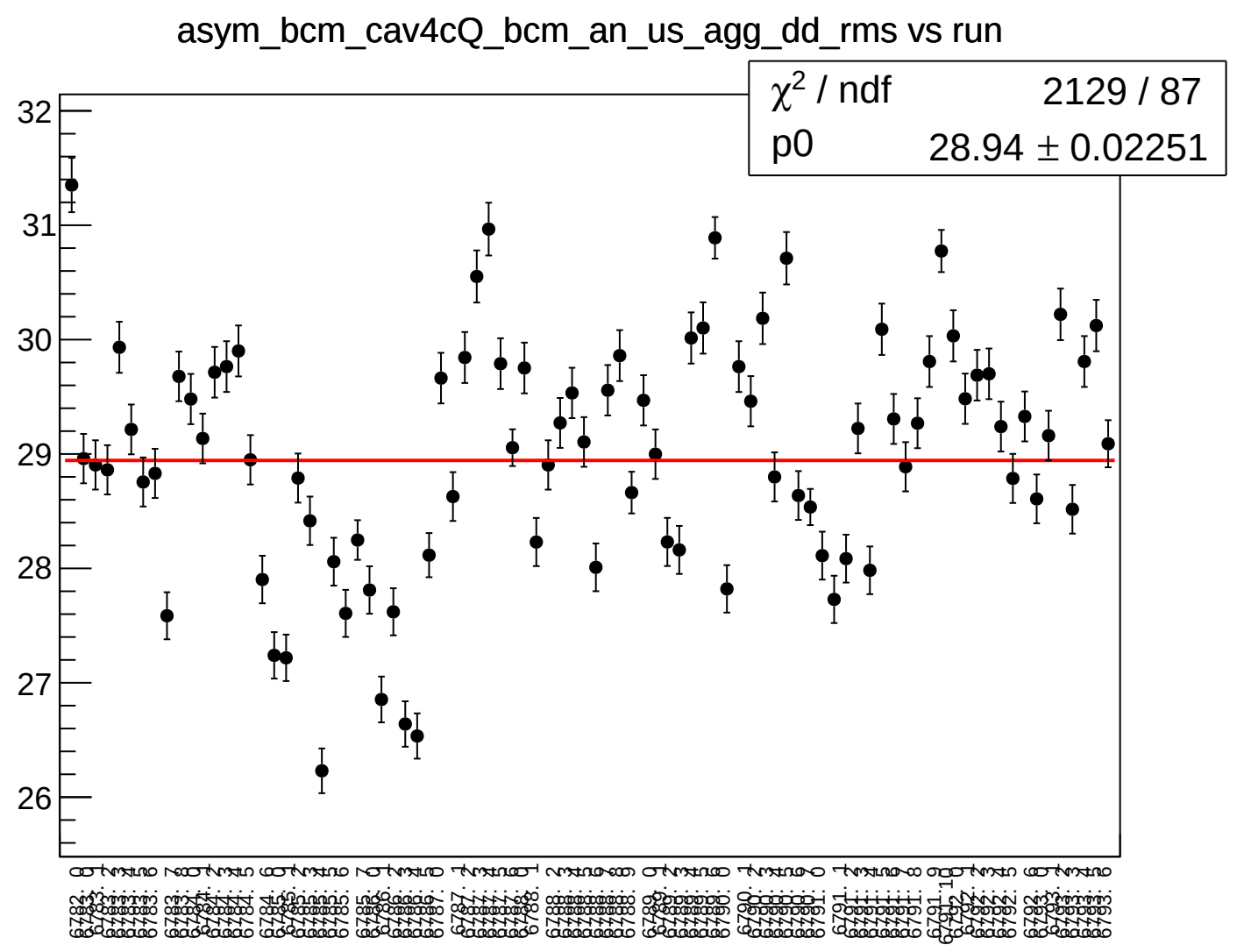

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.72 / 87
p0 487.6 ± 357.6
pull
Entries 88
Mean 144.8
Std Dev 0

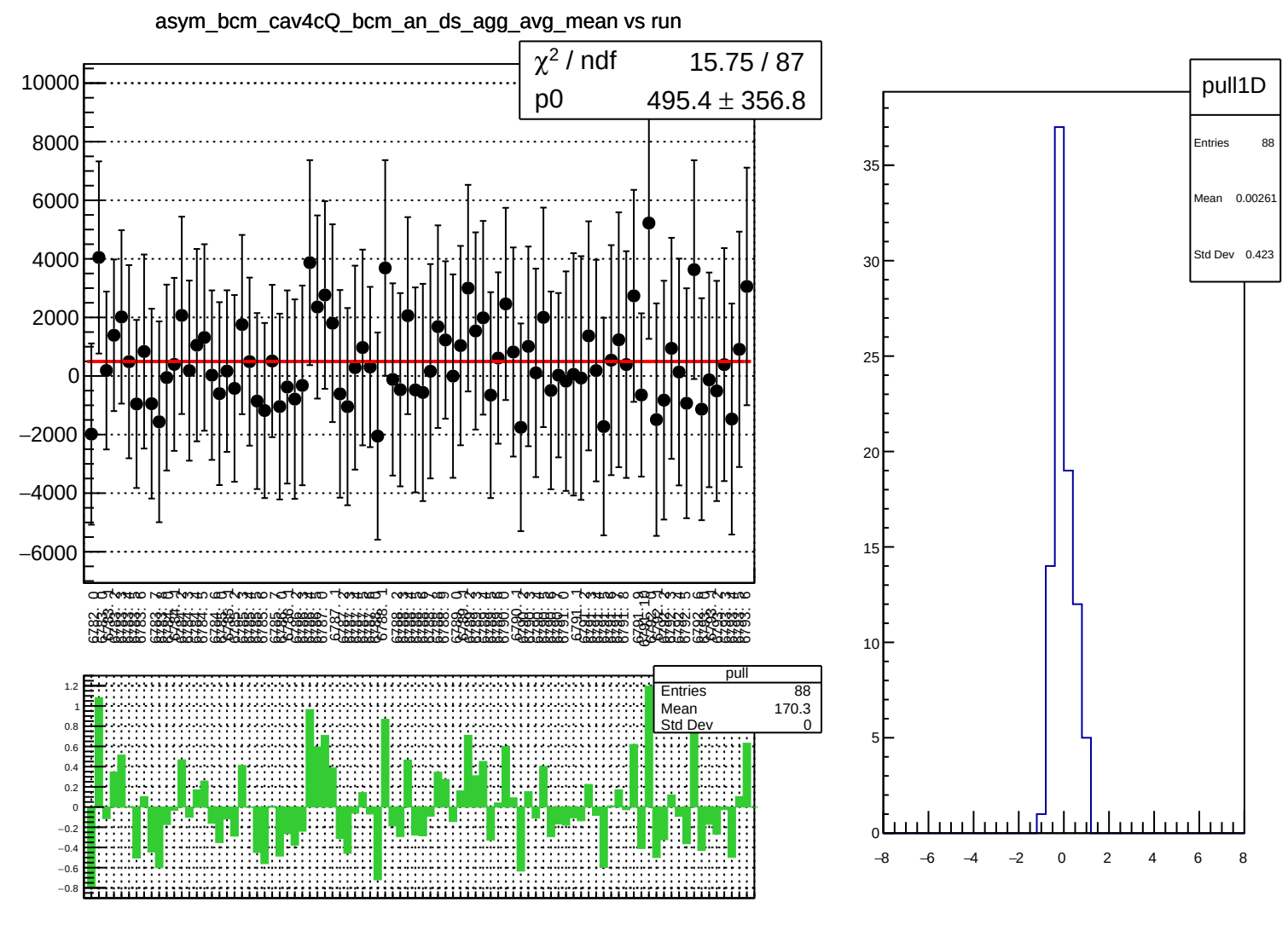

pull1D
Entries 88
Mean 0.002375
Std Dev 0.4227

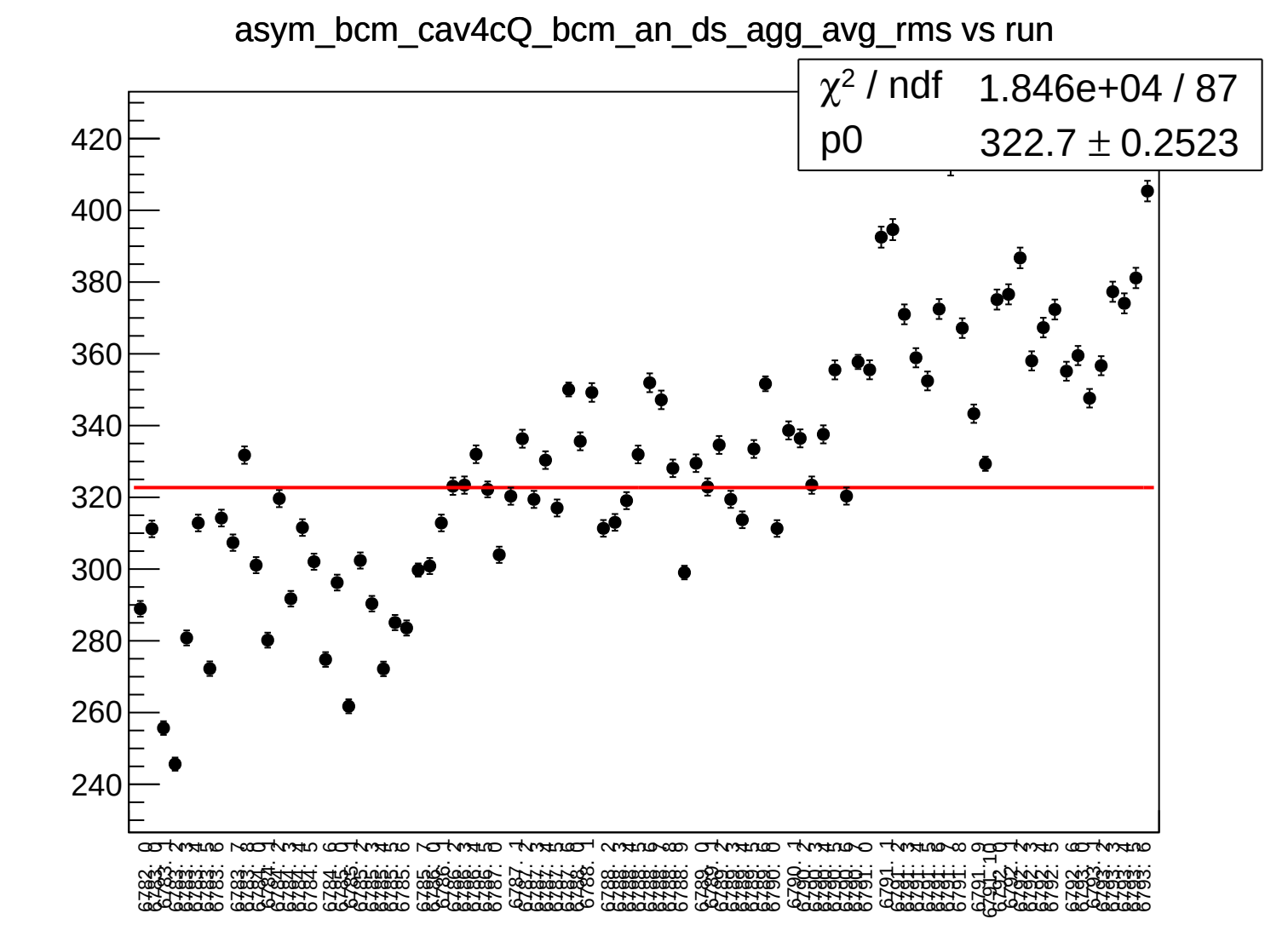

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.844e+04 / 87
p0 323.5 ± 0.2529
420
400
380
360
340
320
300
280
260
240

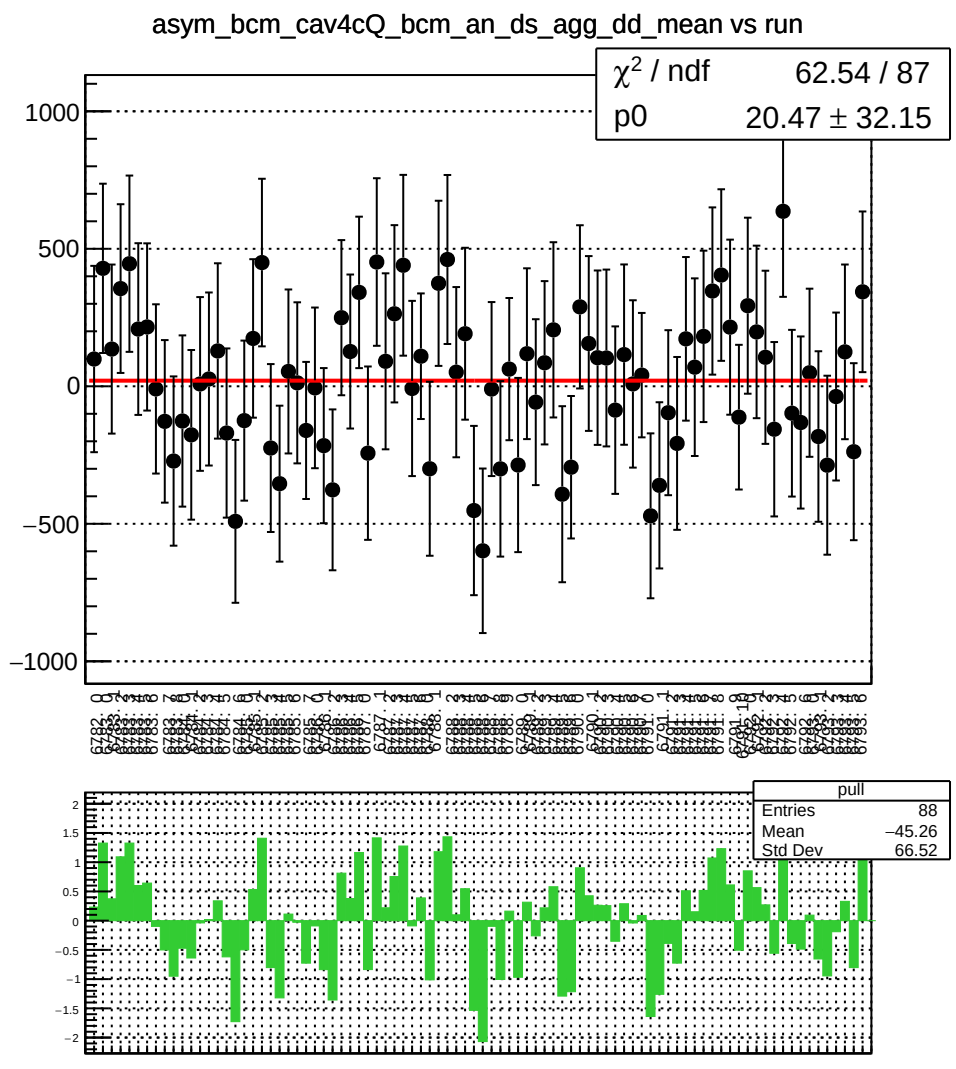

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 63.58 / 87
p0 29.37 ± 31.84
1000
500
0
−500
−1000
pull
Entries 88
Mean 114.6
Std Dev 6.194
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

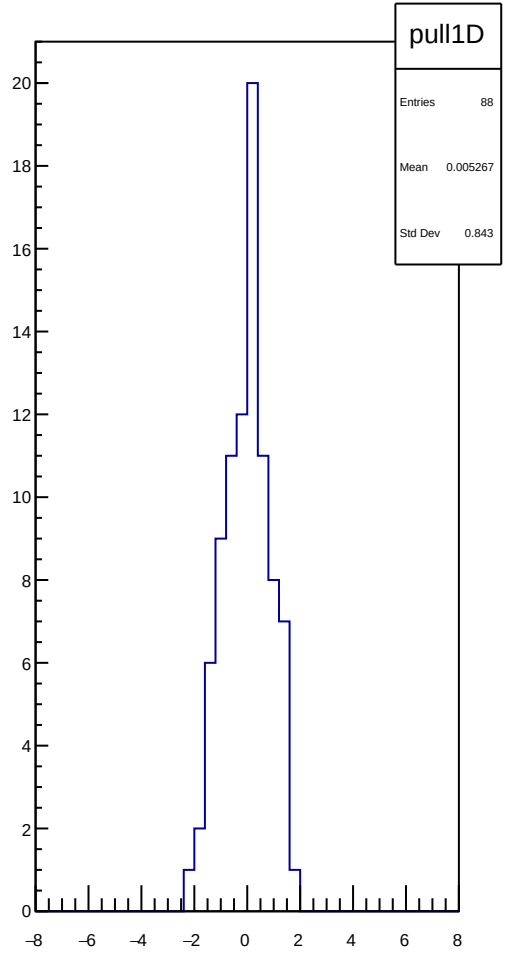

pull1D
Entries 88
Mean 0.006082
Std Dev 0.85
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

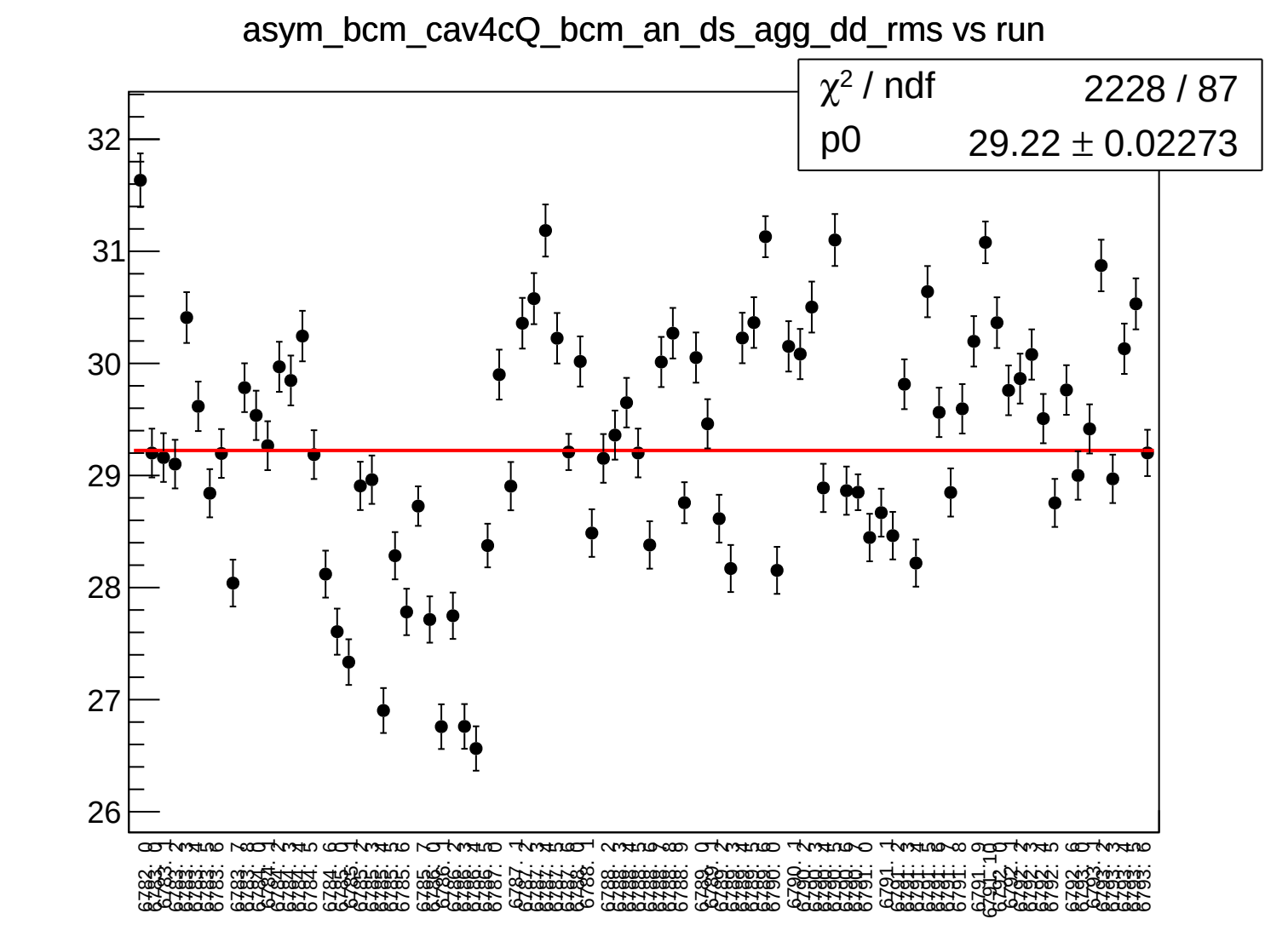

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2129 / 87
p0 28.94 ± 0.02251
32
31
30
29
28
27
26

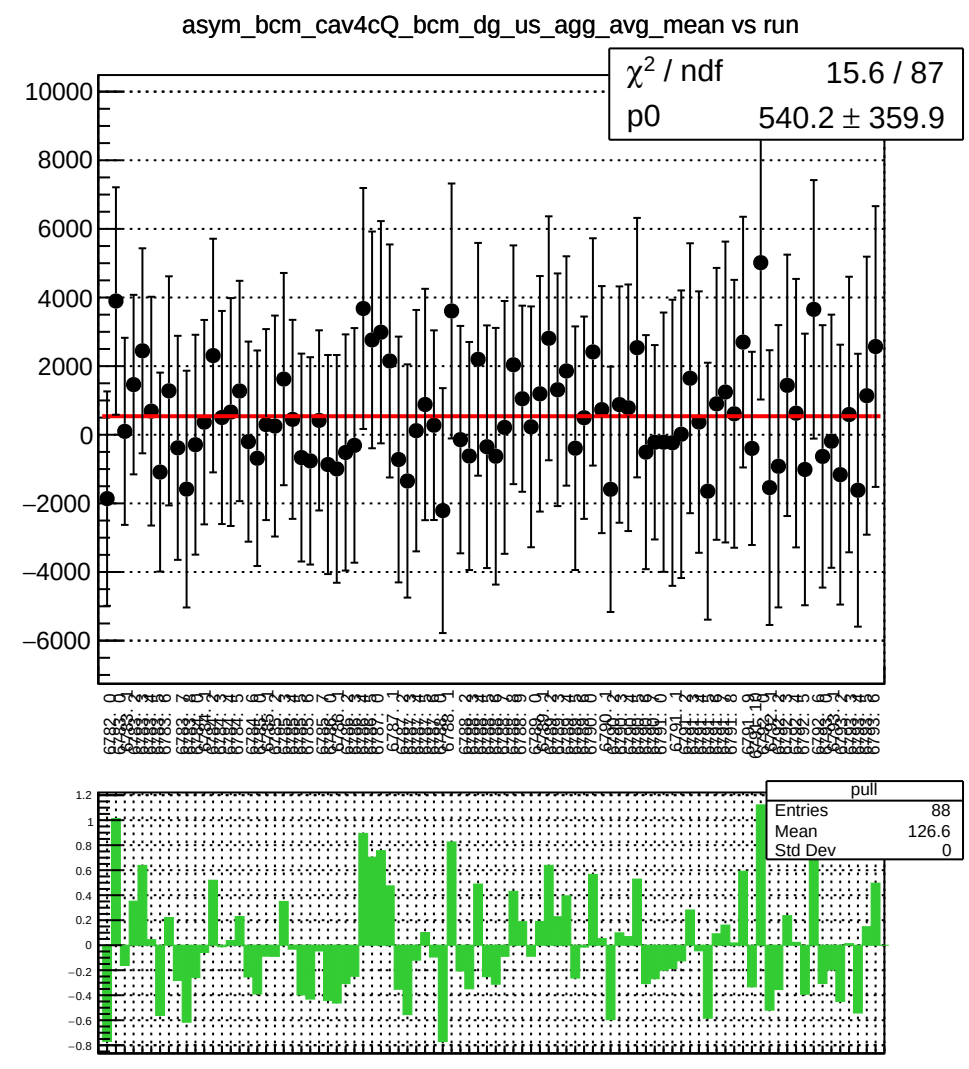

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.75 / 87
p0 495.4 ± 356.8
pull
Entries 88
Mean 170.3
Std Dev 0
pull1D
Entries 88
Mean 0.00261
Std Dev 0.423

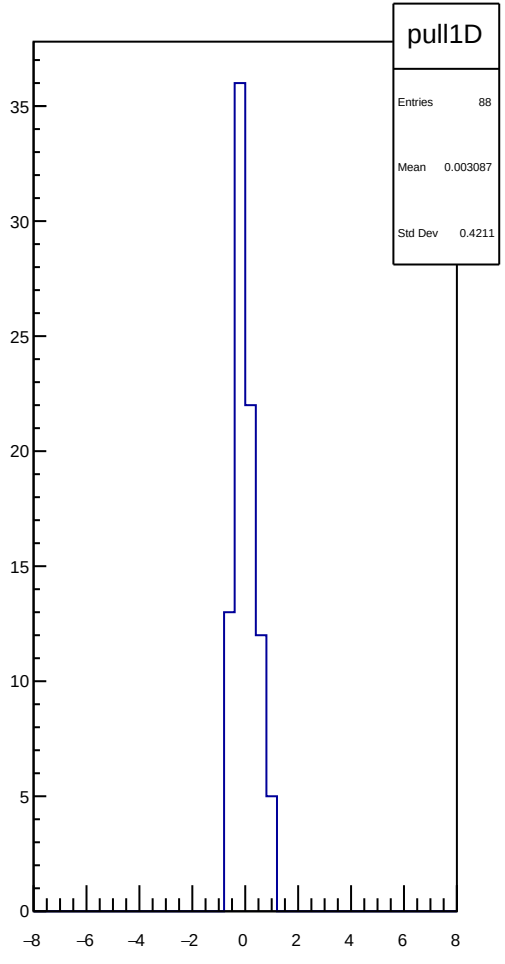

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.846e+04 / 87
p0 322.7 ± 0.2523
420
400
380
360
340
320
300
280
260
240

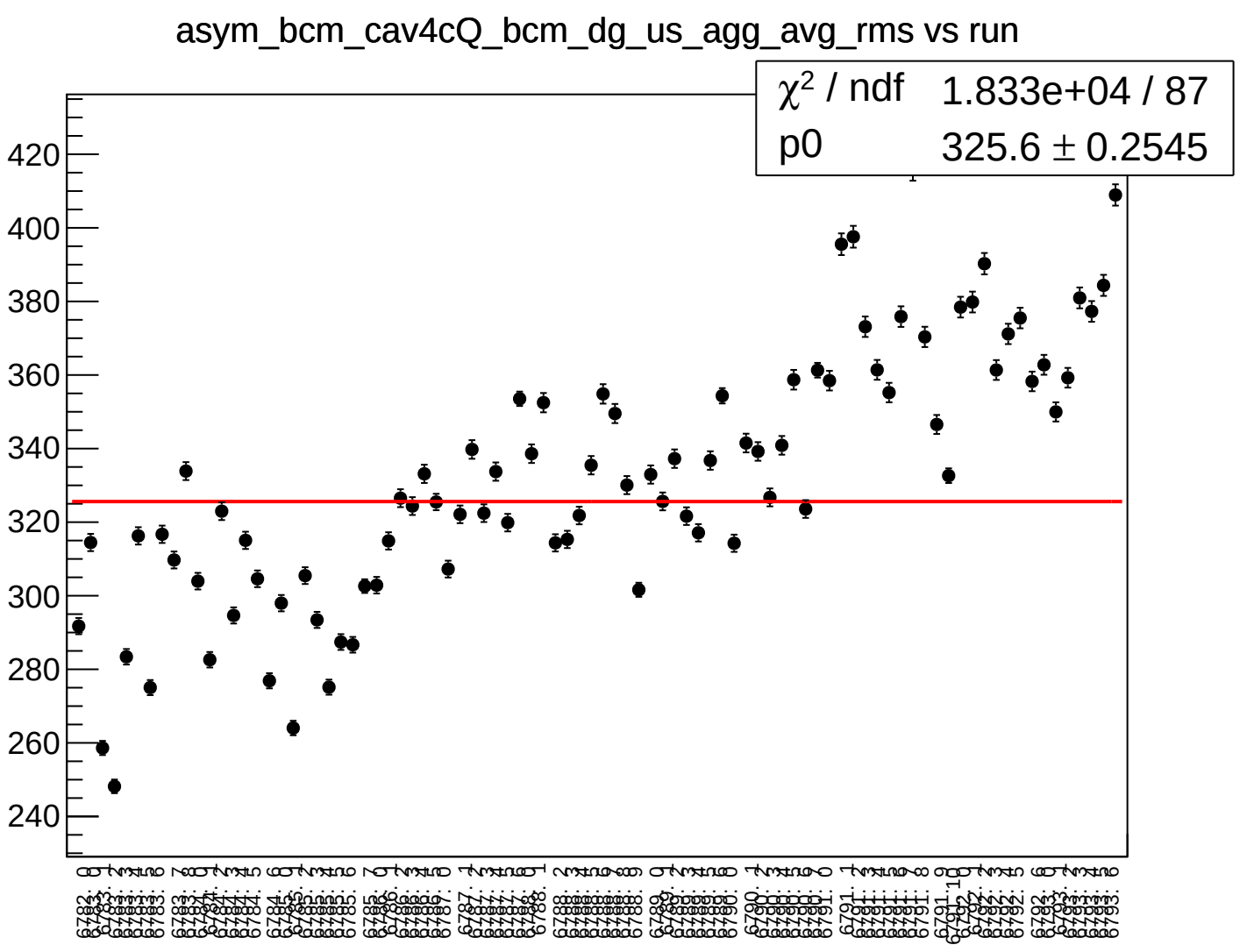

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 62.54 / 87
p0 20.47 ± 32.15
1000
500
0
−500
−1000
pull
Entries 88
Mean −45.26
Std Dev 66.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

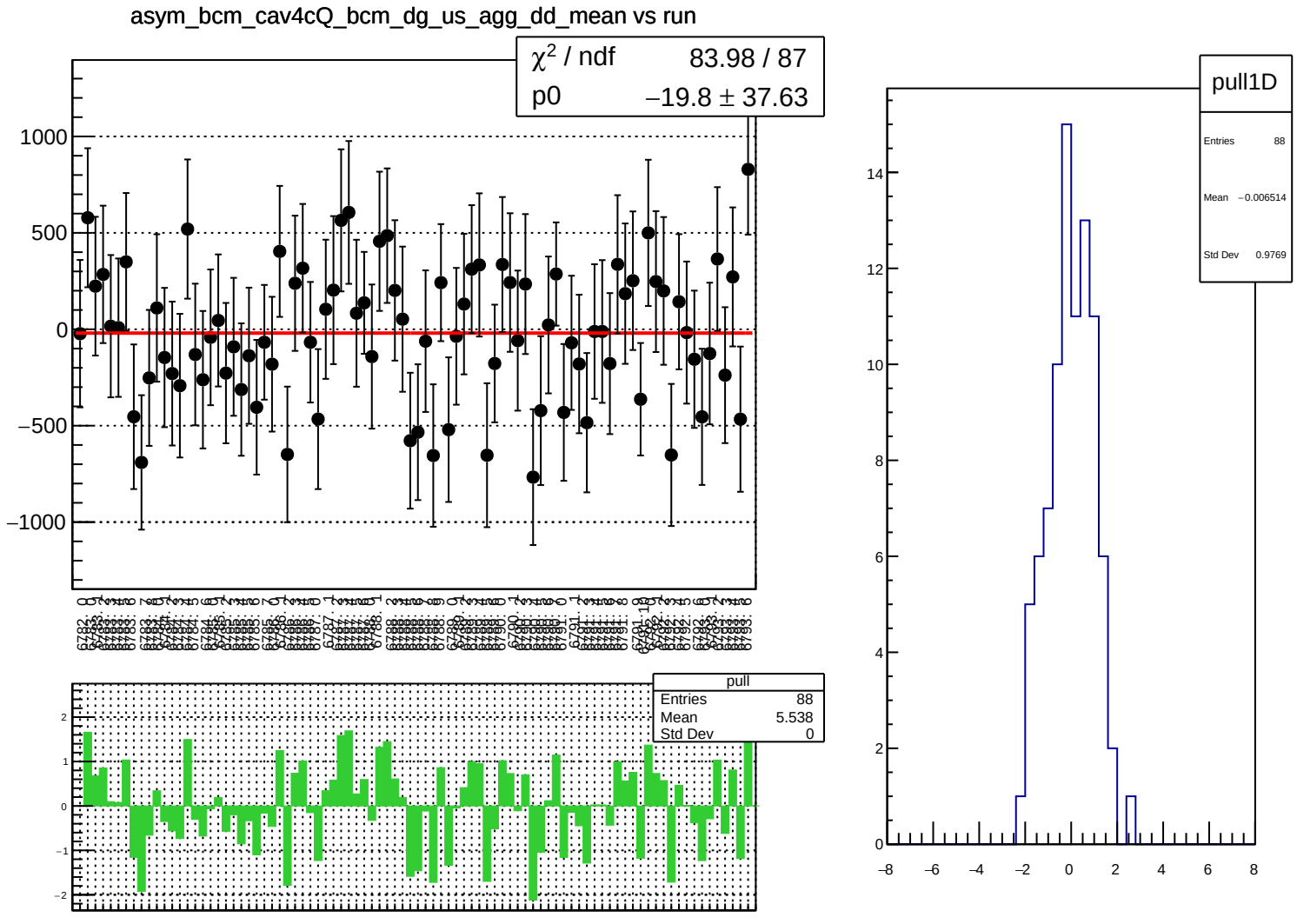

pull1D
Entries 88
Mean 0.005267
Std Dev 0.843
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

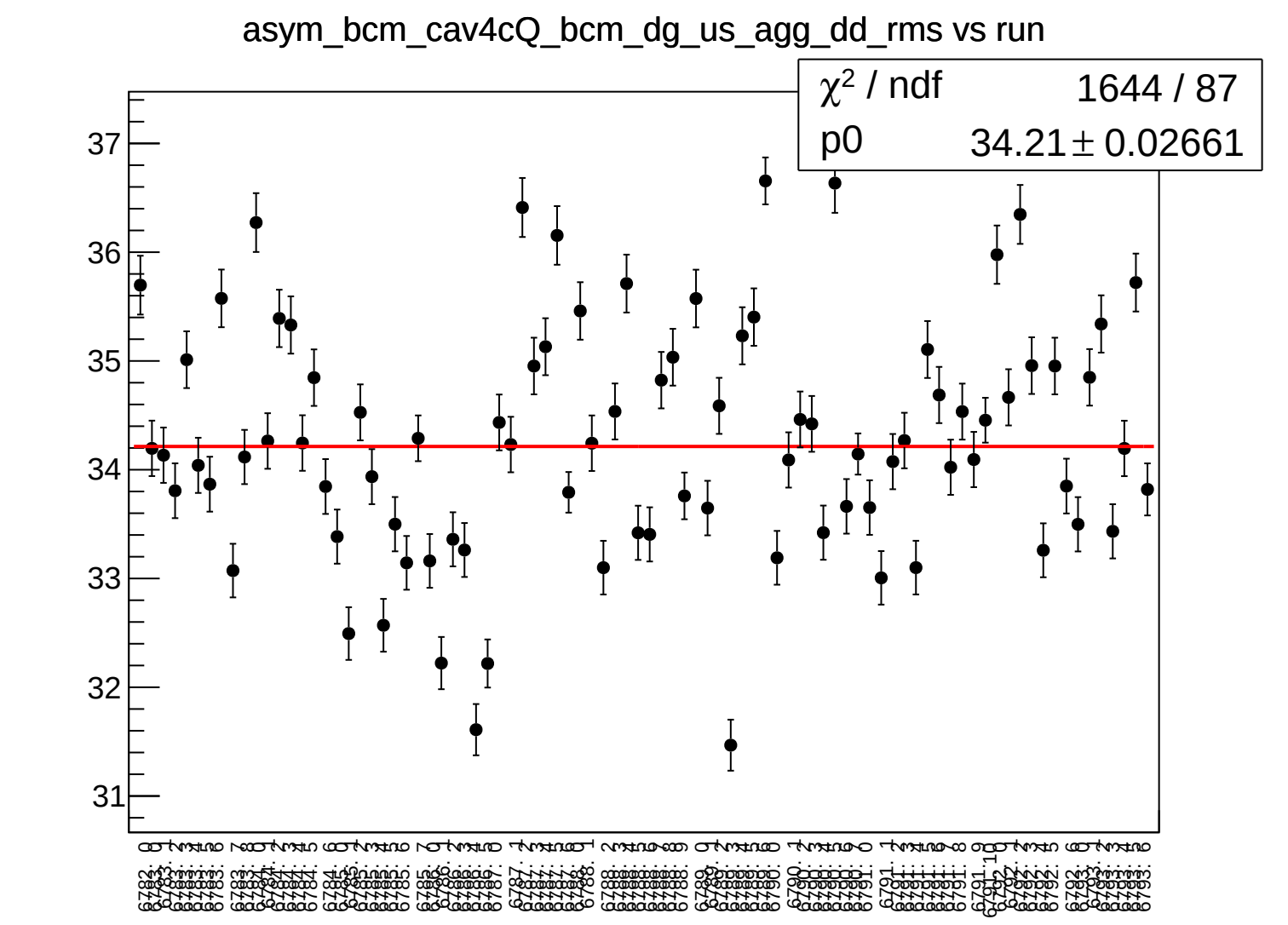

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2228 / 87
p0 29.22 ± 0.02273
32
31
30
29
28
27
26

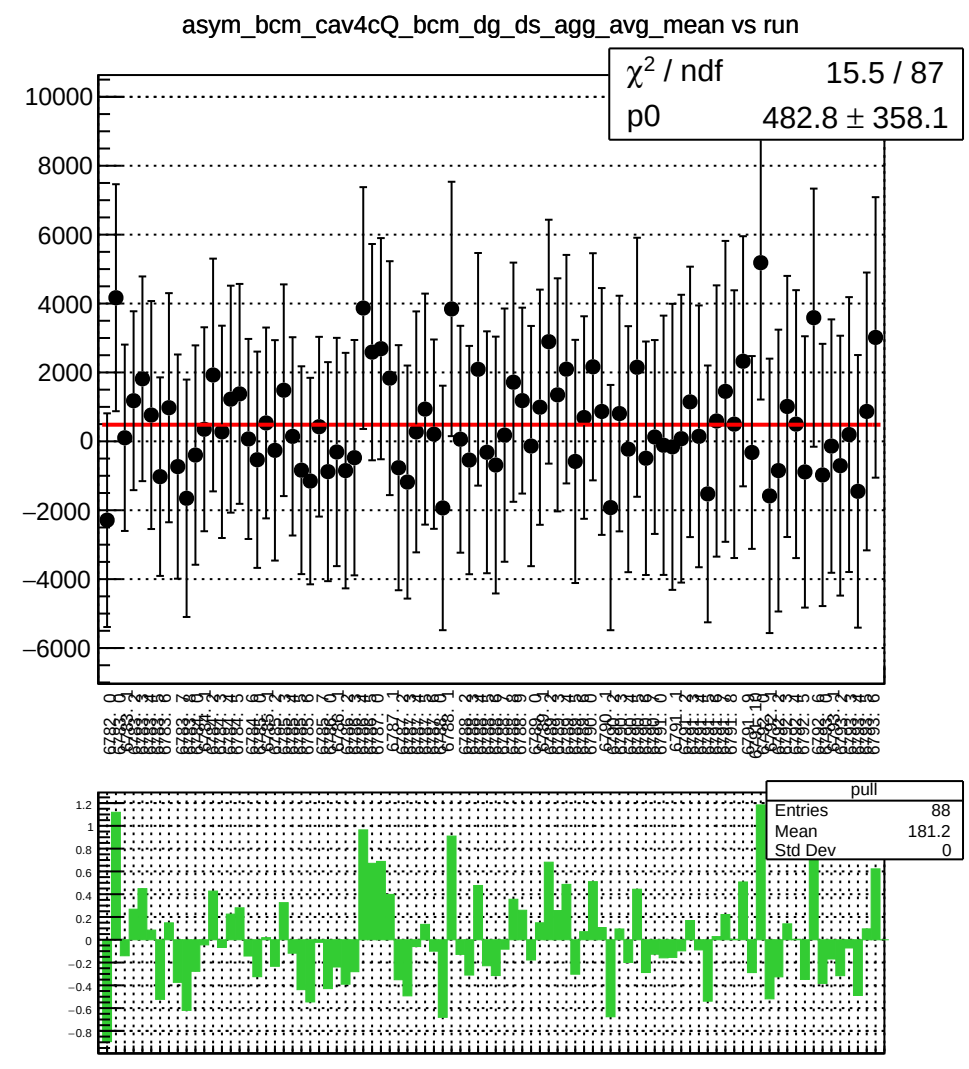

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 15.6 / 87
p0 540.2 ± 359.9
pull
Entries 88
Mean 126.6
Std Dev 0

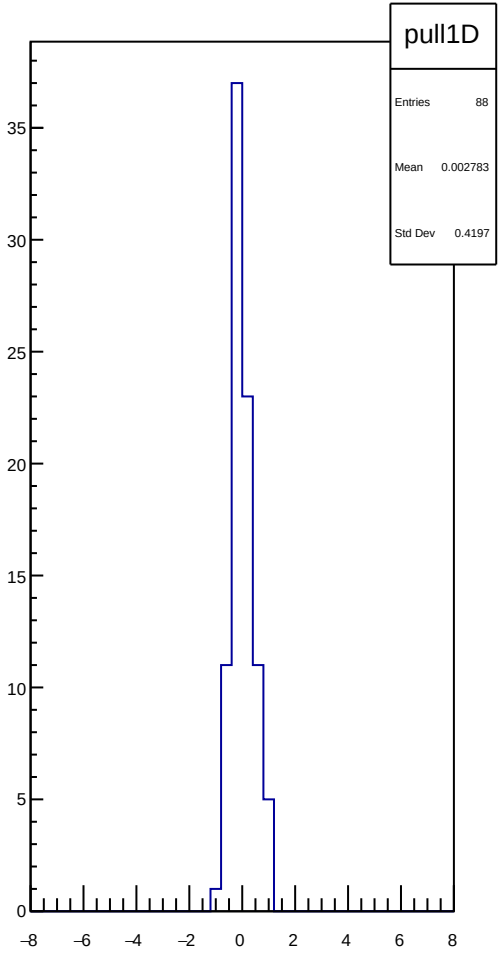

pull1D
Entries 88
Mean 0.003087
Std Dev 0.4211

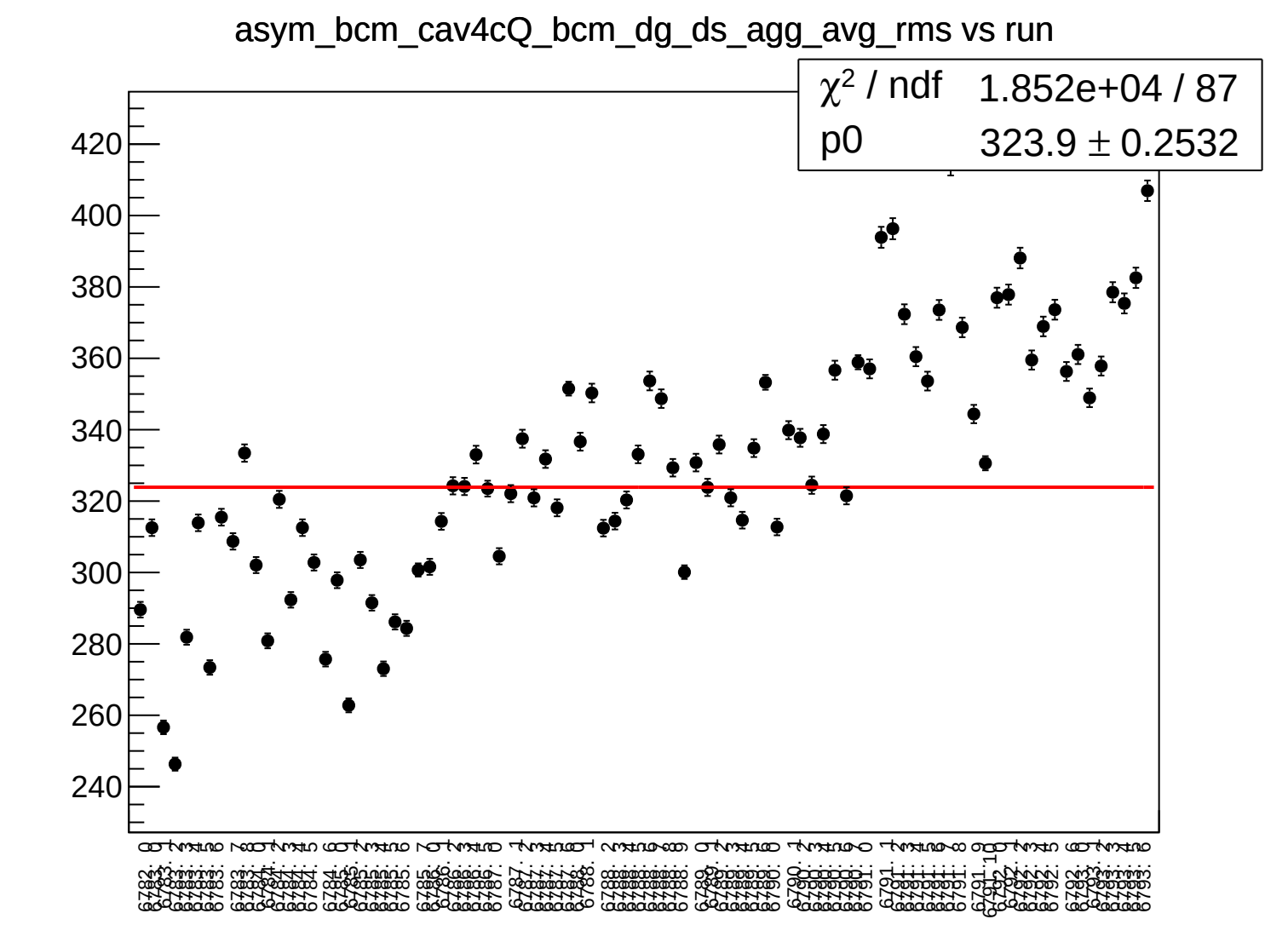

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.833e+04 / 87
p0 325.6 ± 0.2545
420
400
380
360
340
320
300
280
260
240

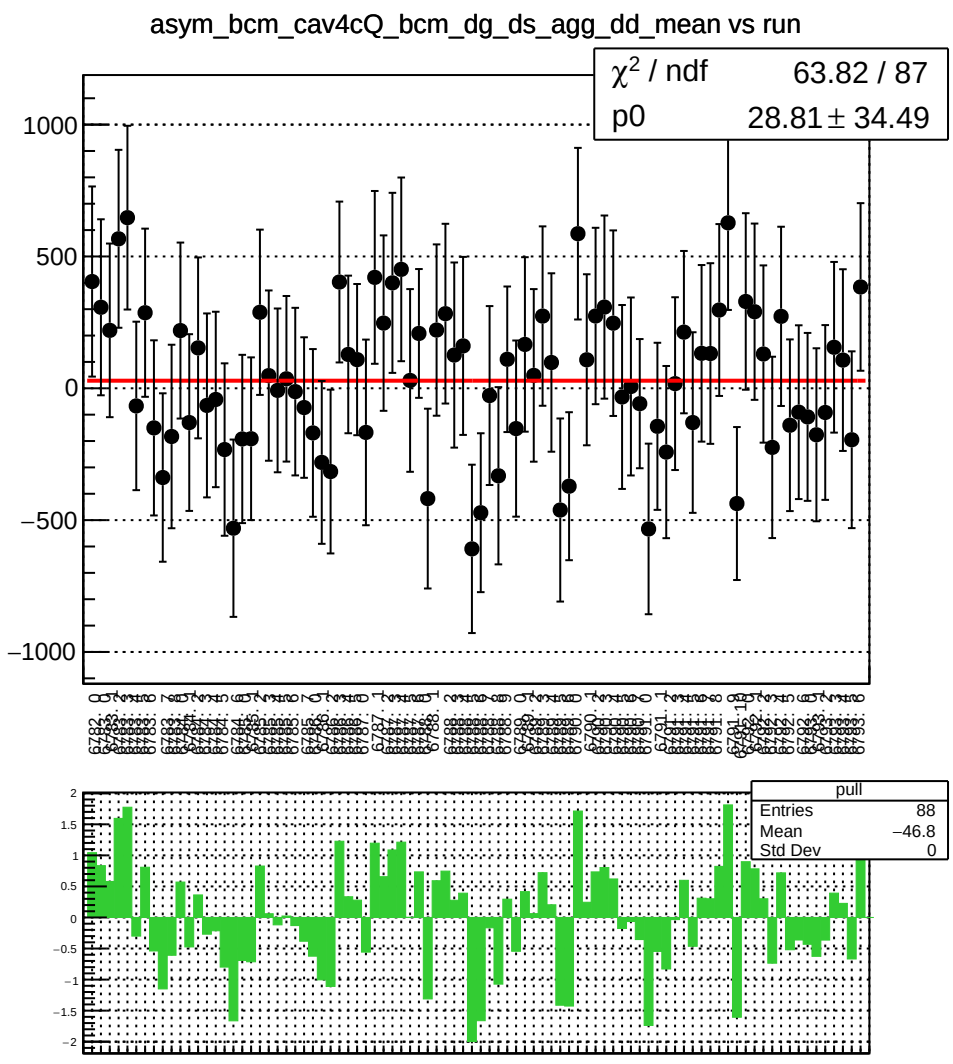

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 83.98 / 87
p0 −19.8 ± 37.63
1000
500
0
−500
−1000
pull
Entries 88
Mean 5.538
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006514
Std Dev 0.9769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

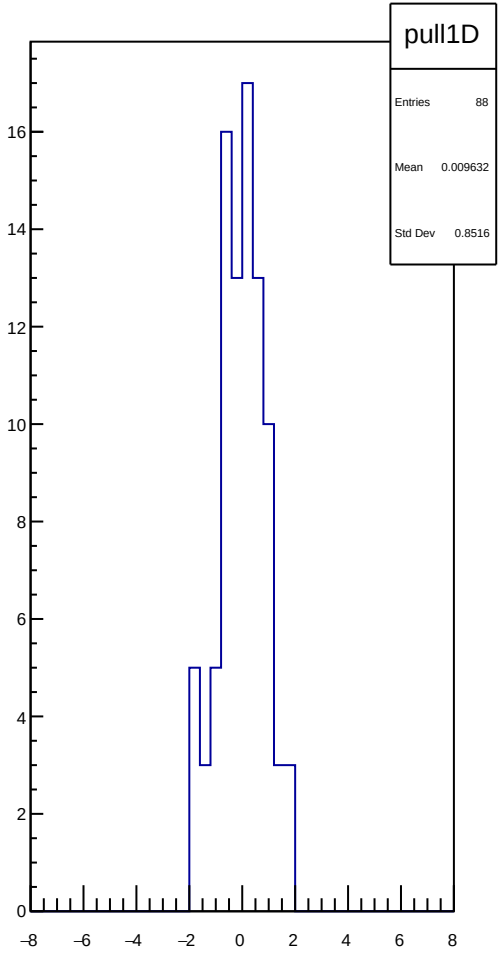

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1644 / 87
p0 34.21 ± 0.02661
37
36
35
34
33
32
31

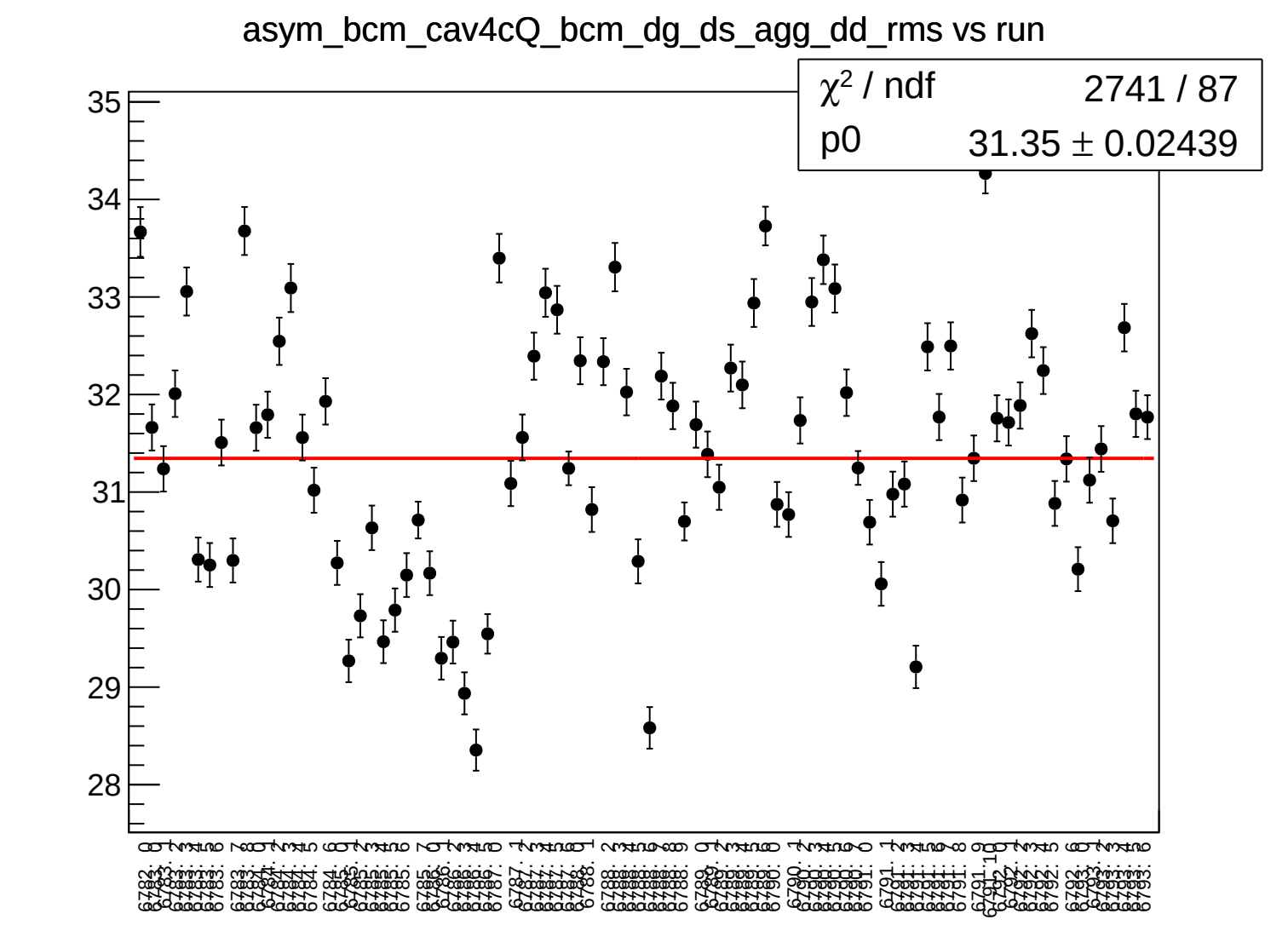

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.5 / 87
p0 482.8 ± 358.1
pull
Entries 88
Mean 181.2
Std Dev 0

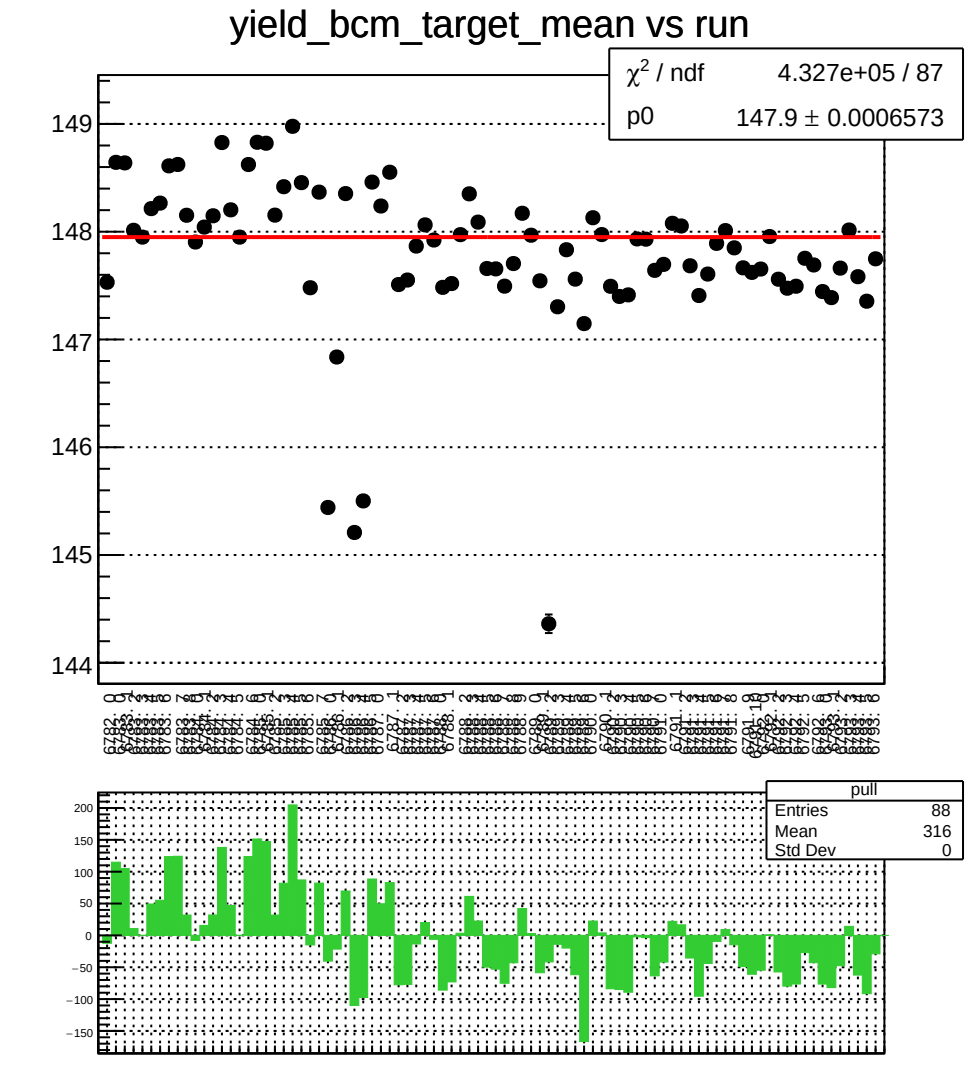

pull1D
Entries 88
Mean 0.002783
Std Dev 0.4197

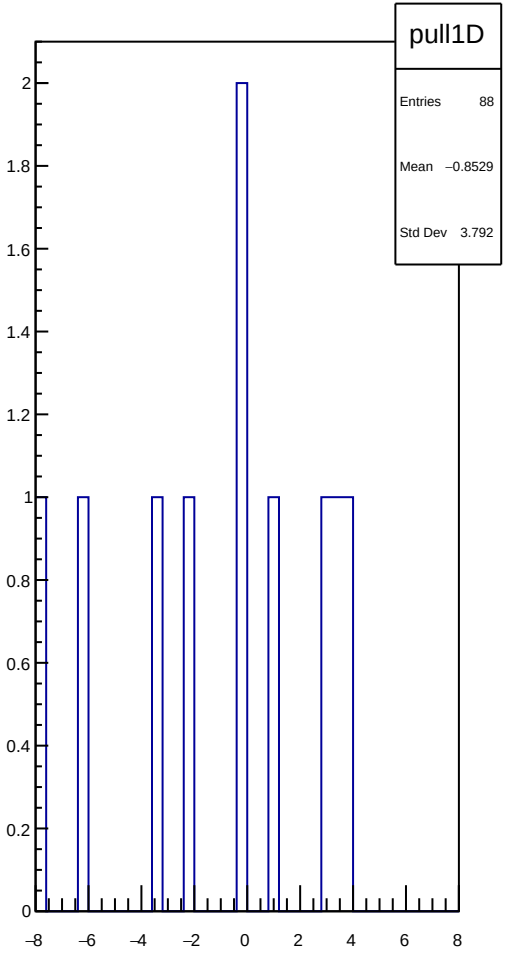

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.852e+04 / 87
p0 323.9 ± 0.2532
420
400
380
360
340
320
300
280
260
240

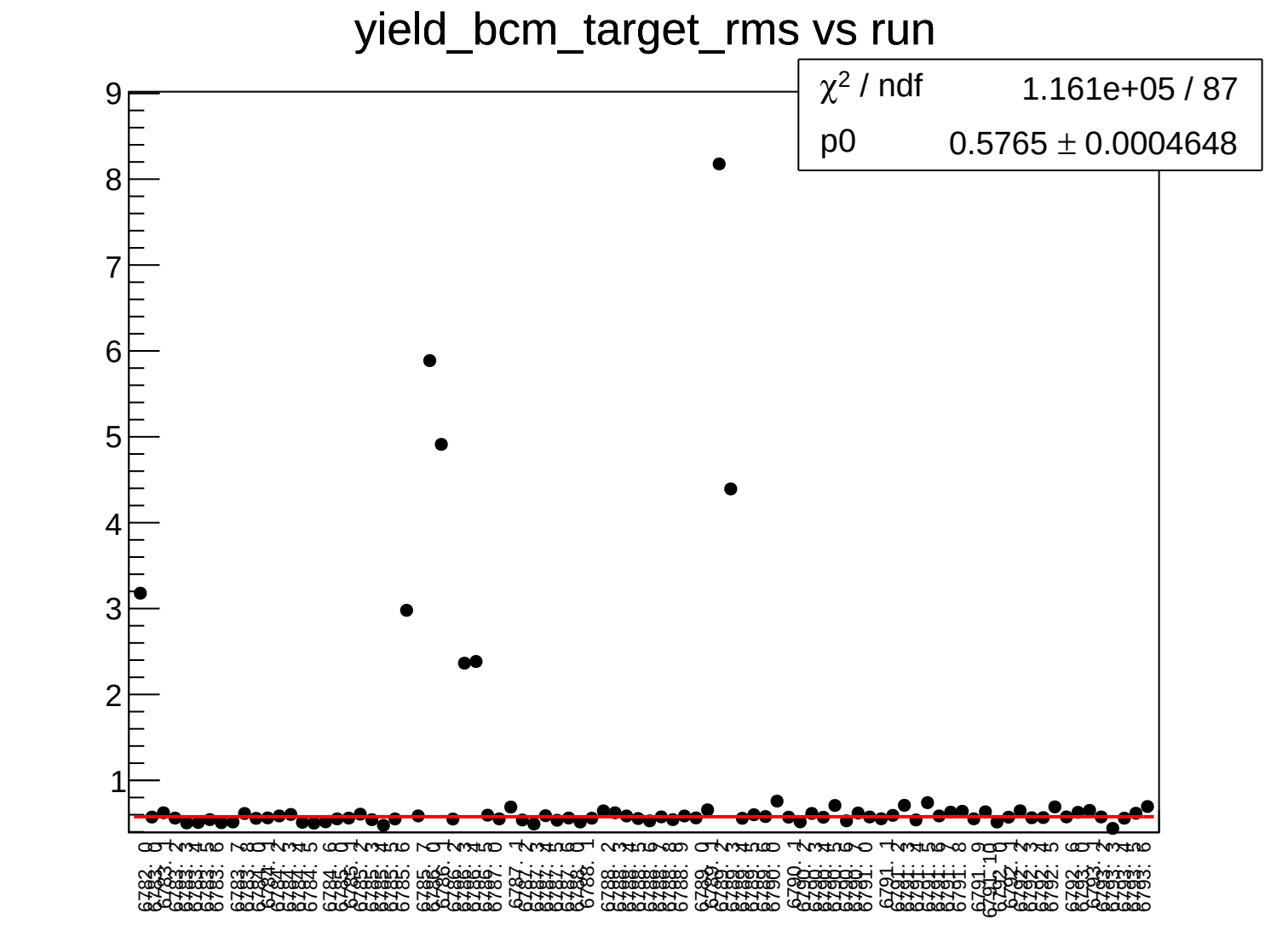

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 63.82 / 87
p0 28.81 ± 34.49
1000
500
0
−500
−1000
pull
Entries 88
Mean −46.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

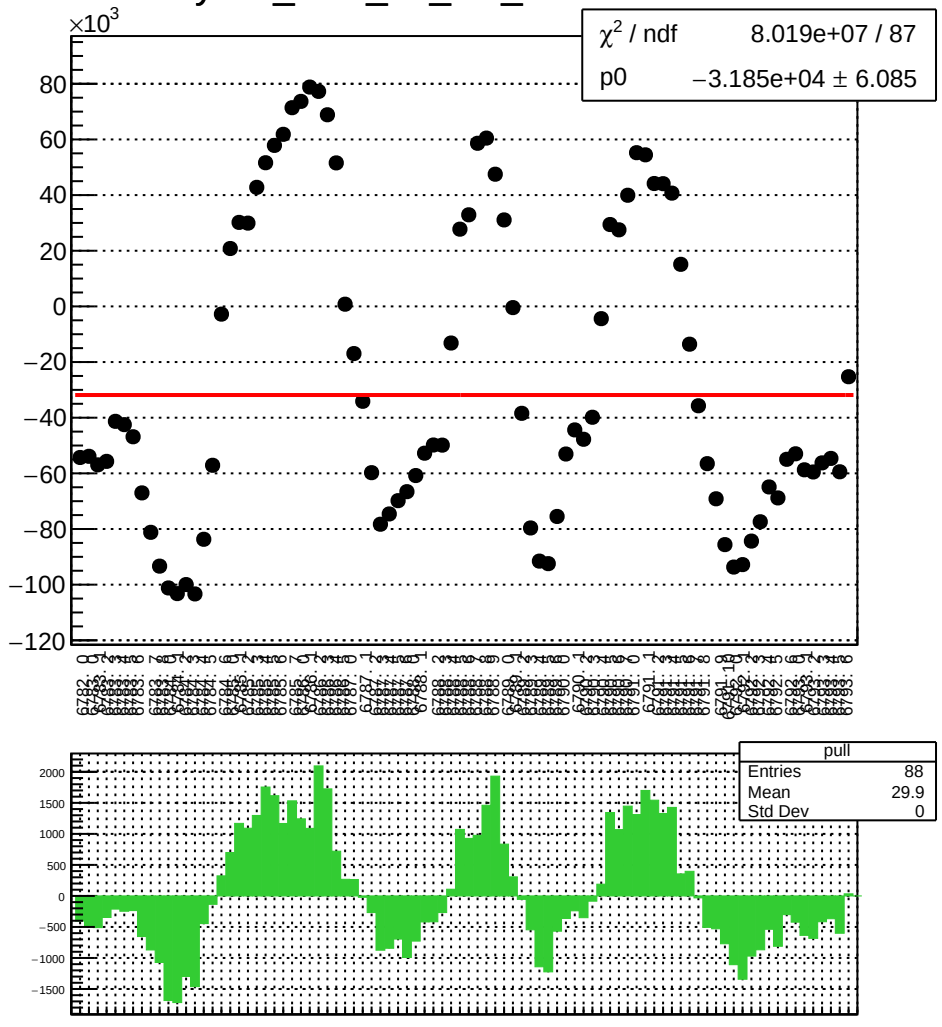

pull1D
Entries 88
Mean 0.009632
Std Dev 0.8516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

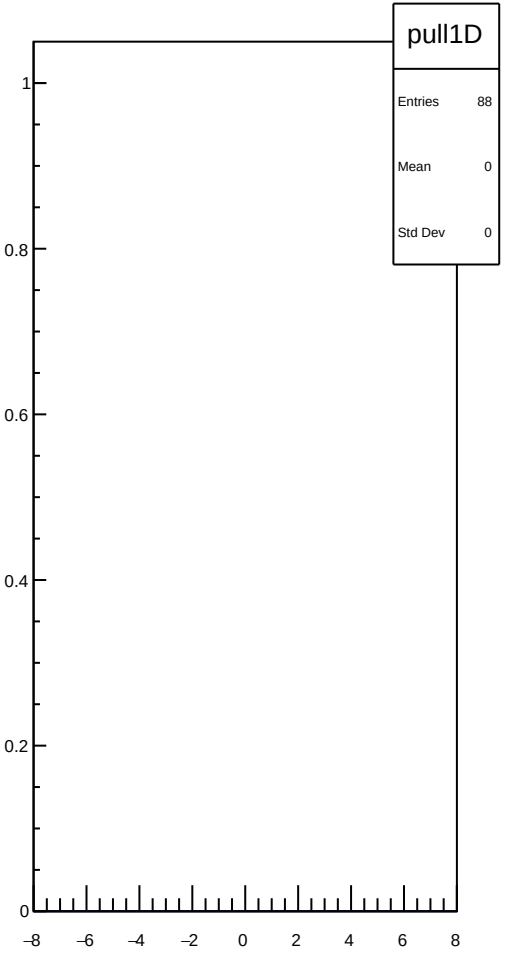

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2741 / 87
p0 31.35 ± 0.02439
35
34
33
32
31
30
29
28

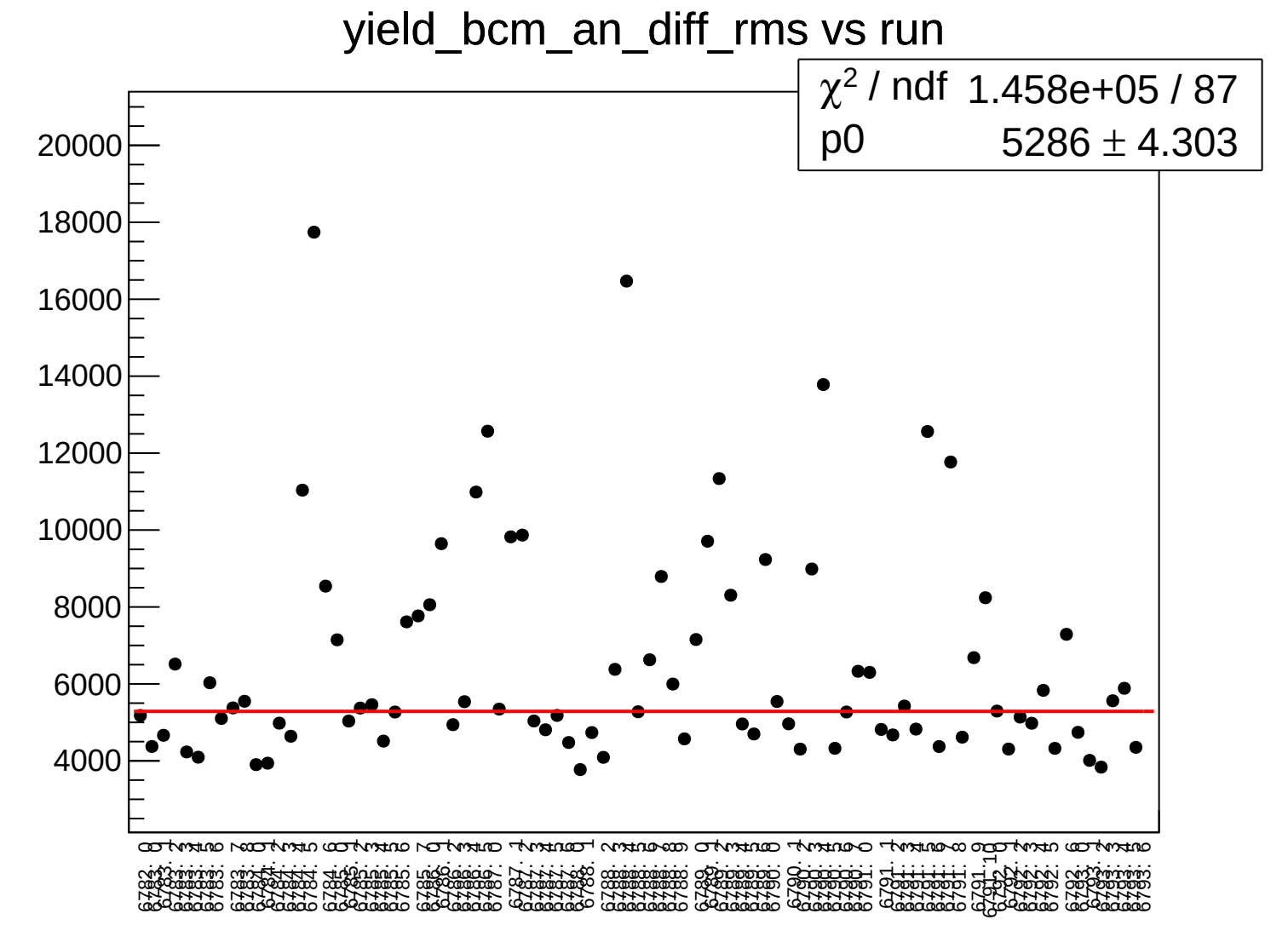

yield_bcm_target_mean vs run
χ² / ndf 4.327e+05 / 87
p0 147.9 ± 0.0006573
149
148
147
146
145
144
pull
Entries 88
Mean 316
Std Dev 0
200
150
100
50
0
−50
−100
−150

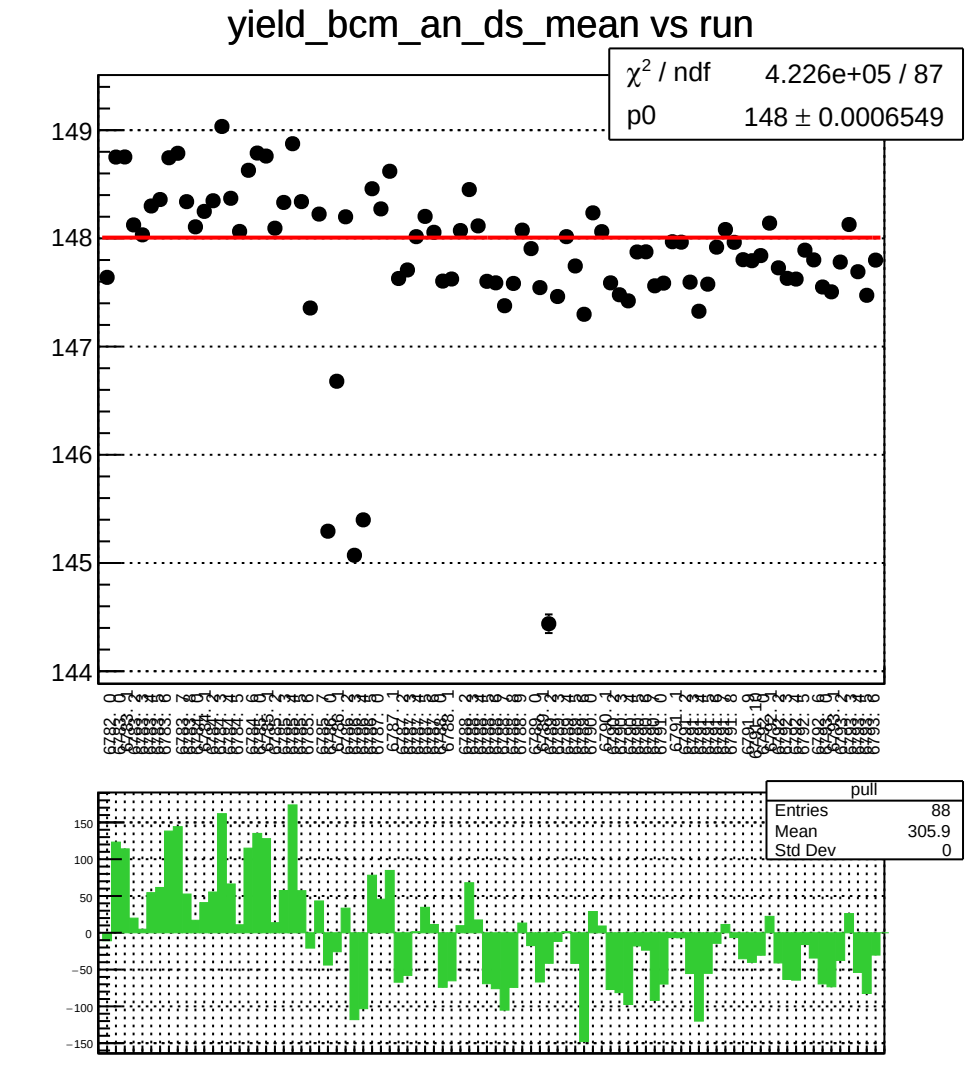

pull1D
Entries 88
Mean −0.8529
Std Dev 3.792
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

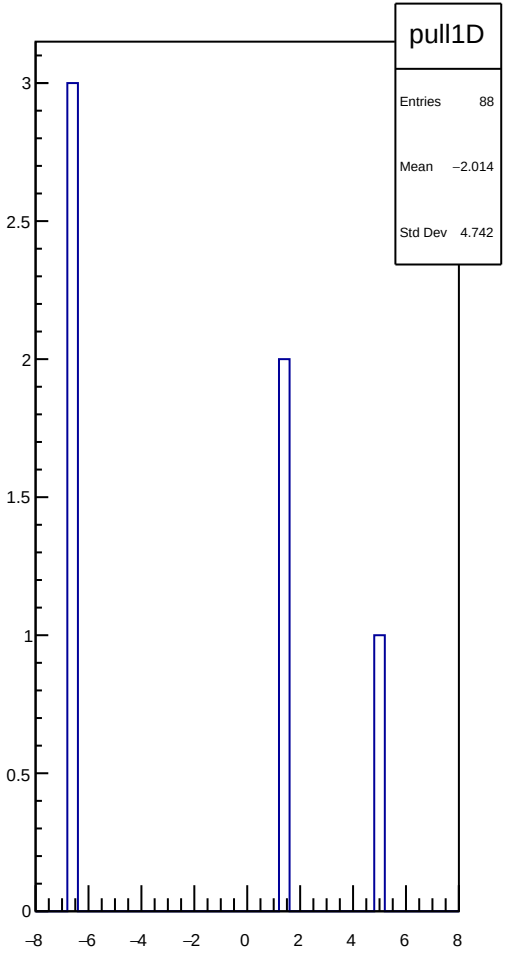

yield_bcm_target_rms vs run
χ² / ndf 1.161e+05 / 87
p0 0.5765 ± 0.0004648
9
8
7
6
5
4
3
2
1

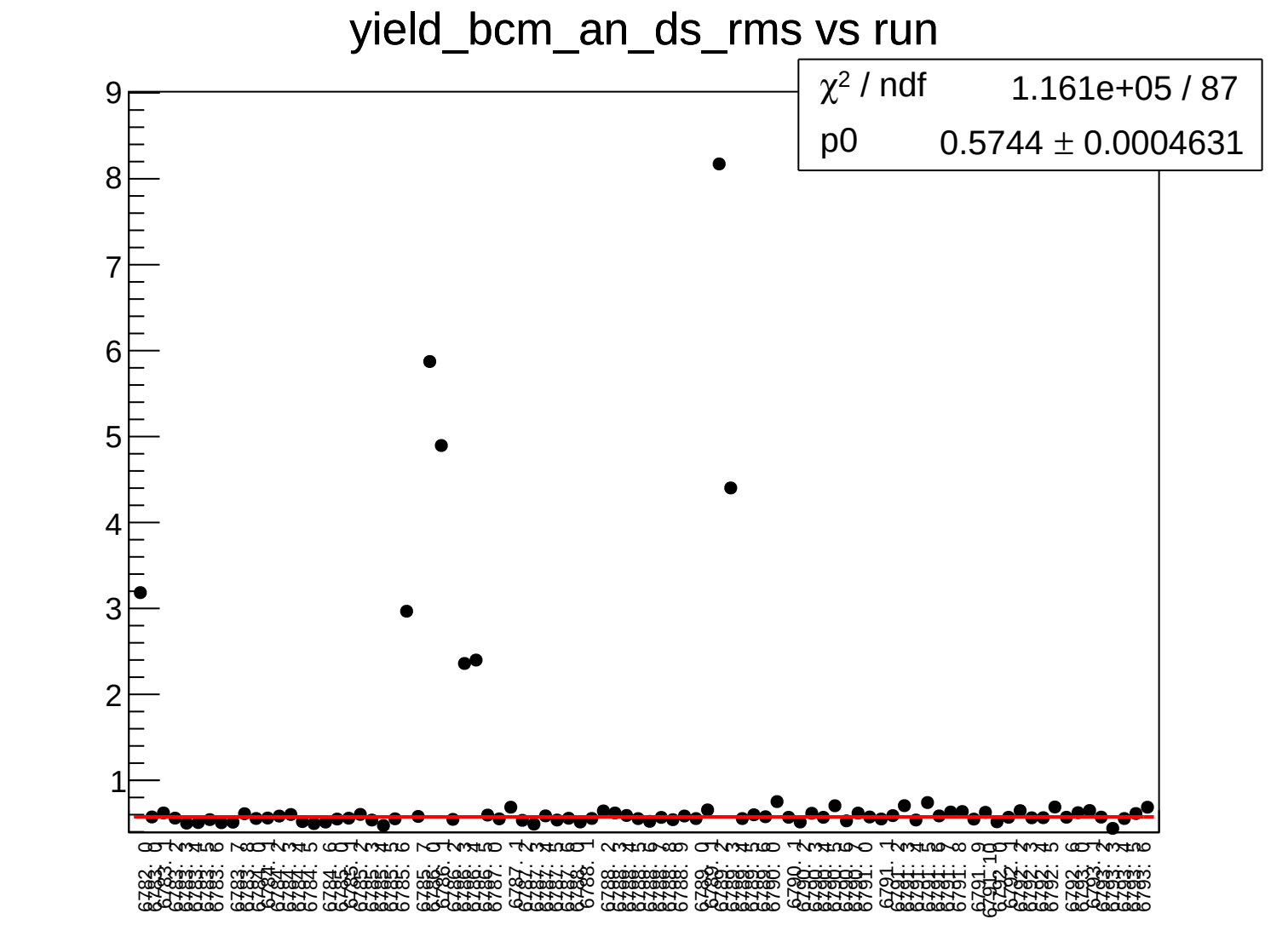

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 8.019e+07 / 87
p0 −3.185e+04 ± 6.085
pull
Entries 88
Mean 29.9
Std Dev 0

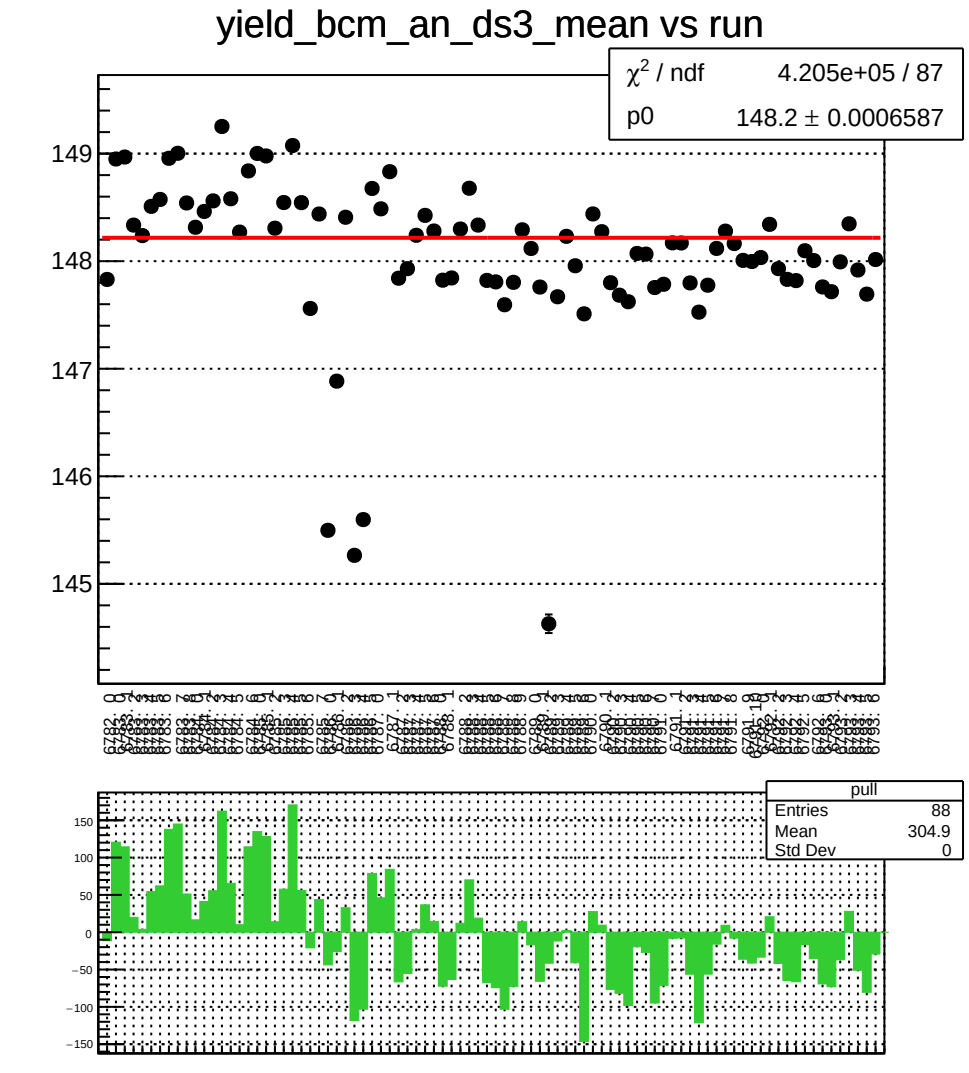

pull1D
Entries 88
Mean 0
Std Dev 0

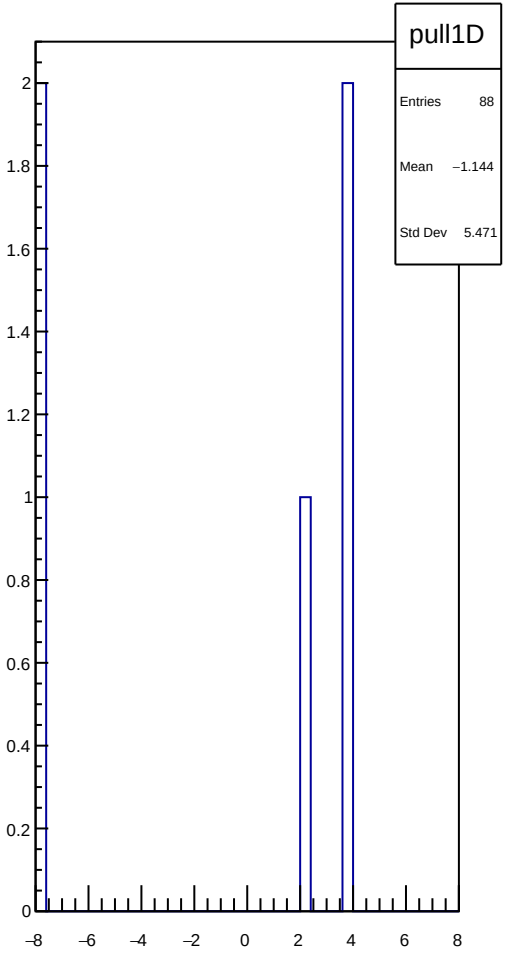

yield_bcm_an_diff_rms vs run
χ^2 / ndf 1.458e+05 / 87
p0 5286 ± 4.303
20000
18000
16000
14000
12000
10000
8000
6000
4000

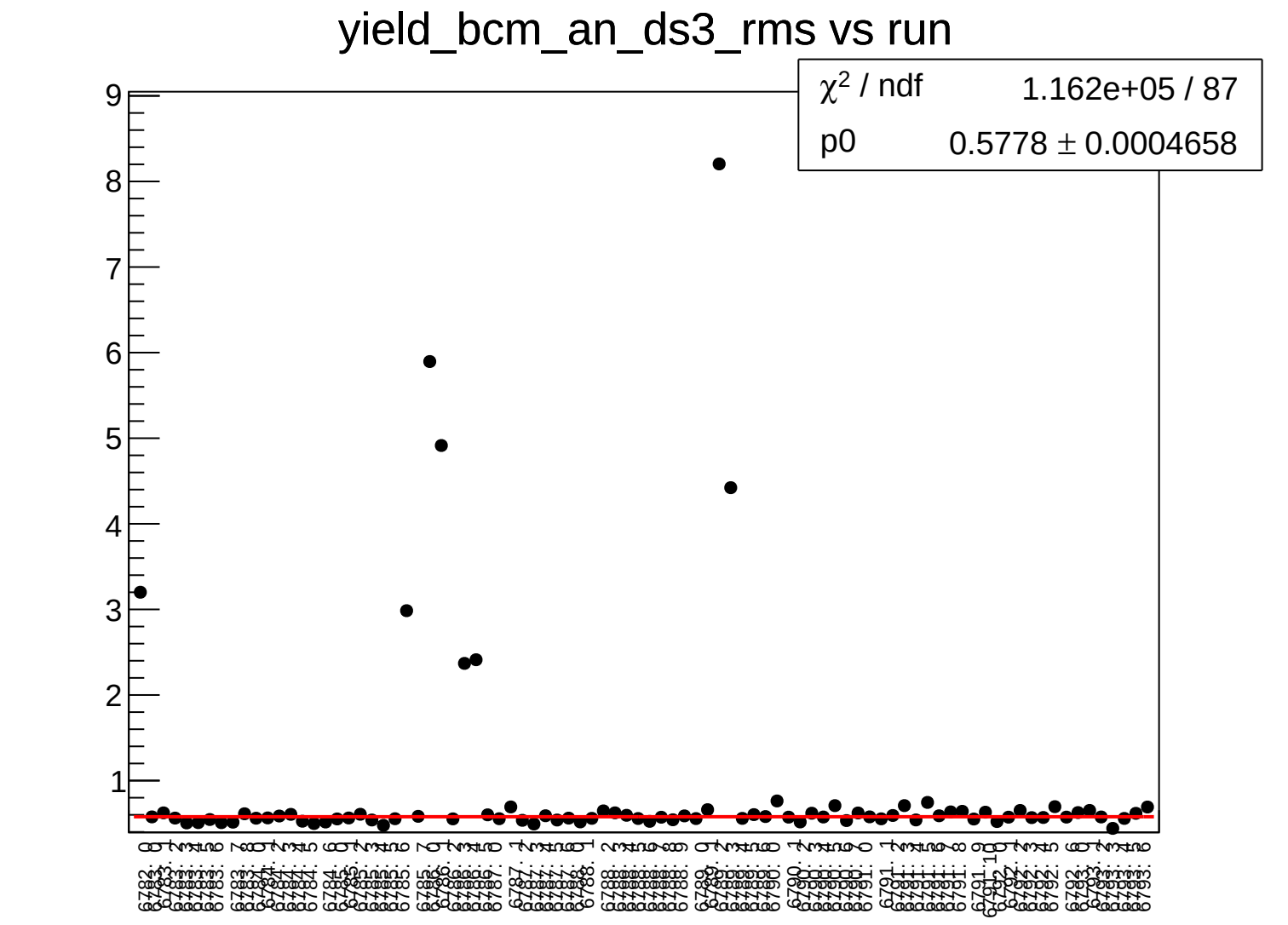

yield_bcm_an_ds_mean vs run
χ² / ndf 4.226e+05 / 87
p0 148 ± 0.0006549
149
148
147
146
145
144
pull
Entries 88
Mean 305.9
Std Dev 0
150
100
50
0
−50
−100
−150

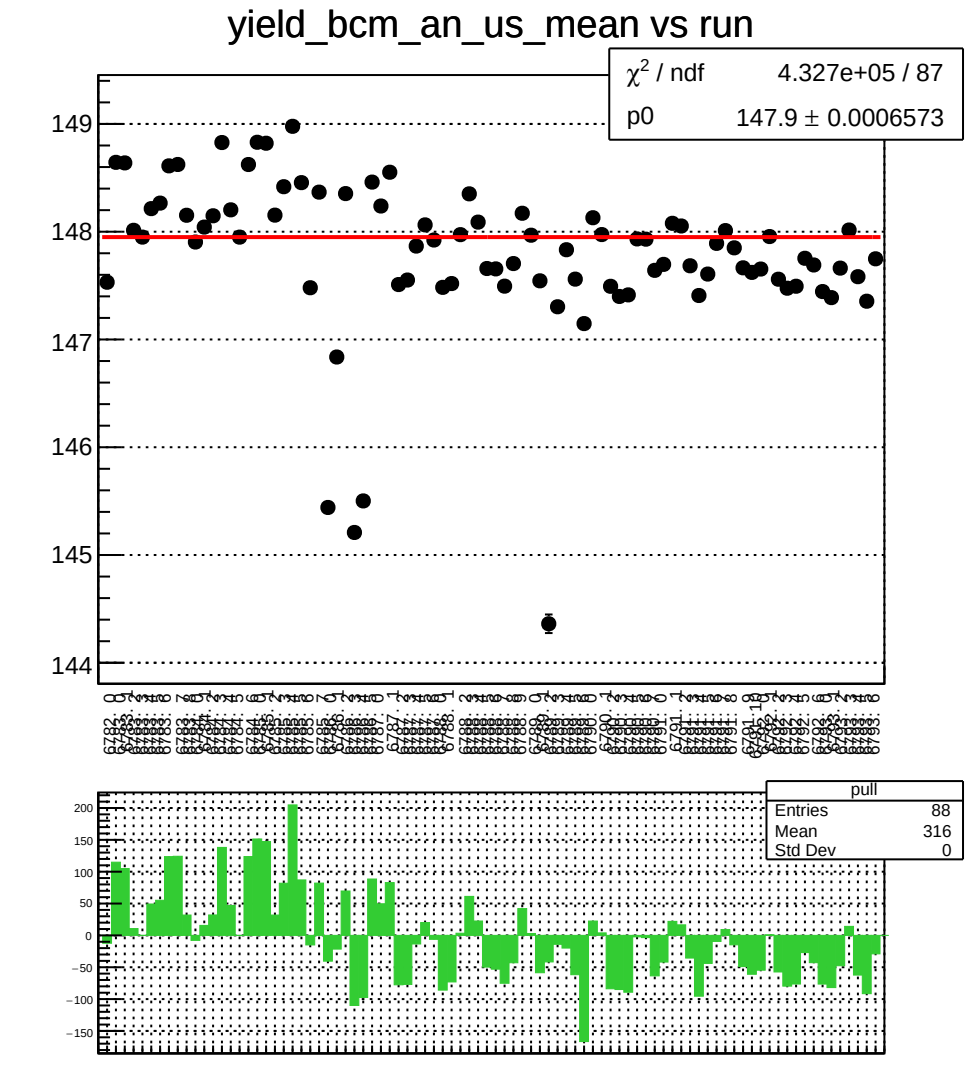

pull1D
Entries 88
Mean −2.014
Std Dev 4.742
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

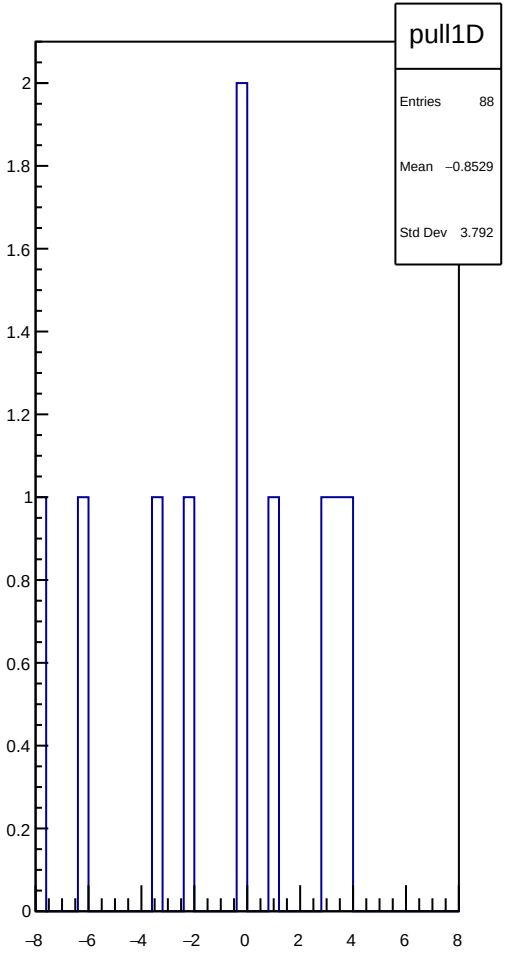

yield_bcm_an_ds_rms vs run
χ² / ndf 1.161e+05 / 87
p0 0.5744 ± 0.0004631
9
8
7
6
5
4
3
2
1

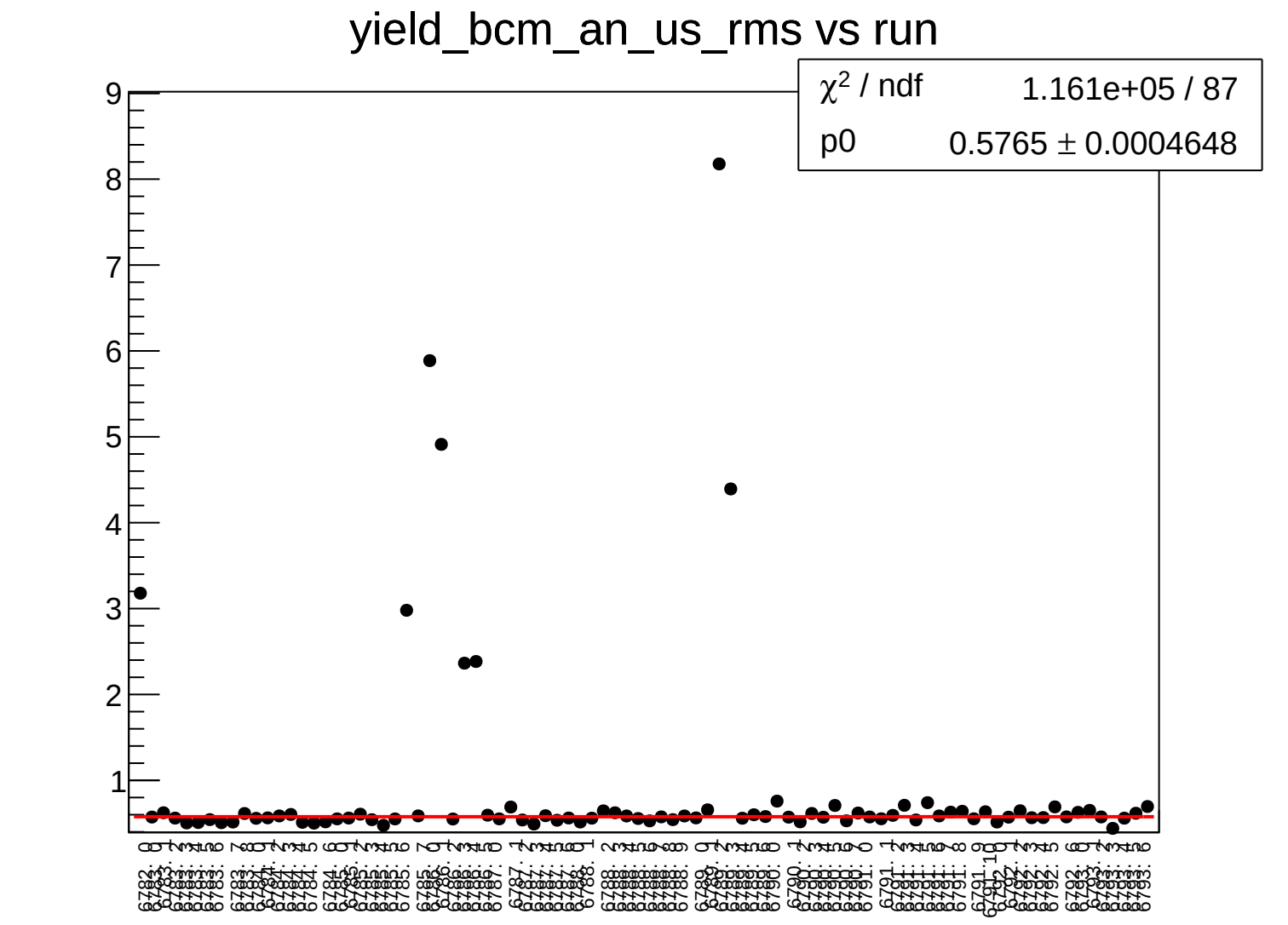

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.205e+05 / 87
p0 148.2 ± 0.0006587
149
148
147
146
145
pull
Entries 88
Mean 304.9
Std Dev 0
150
100
50
0
−50
−100
−150

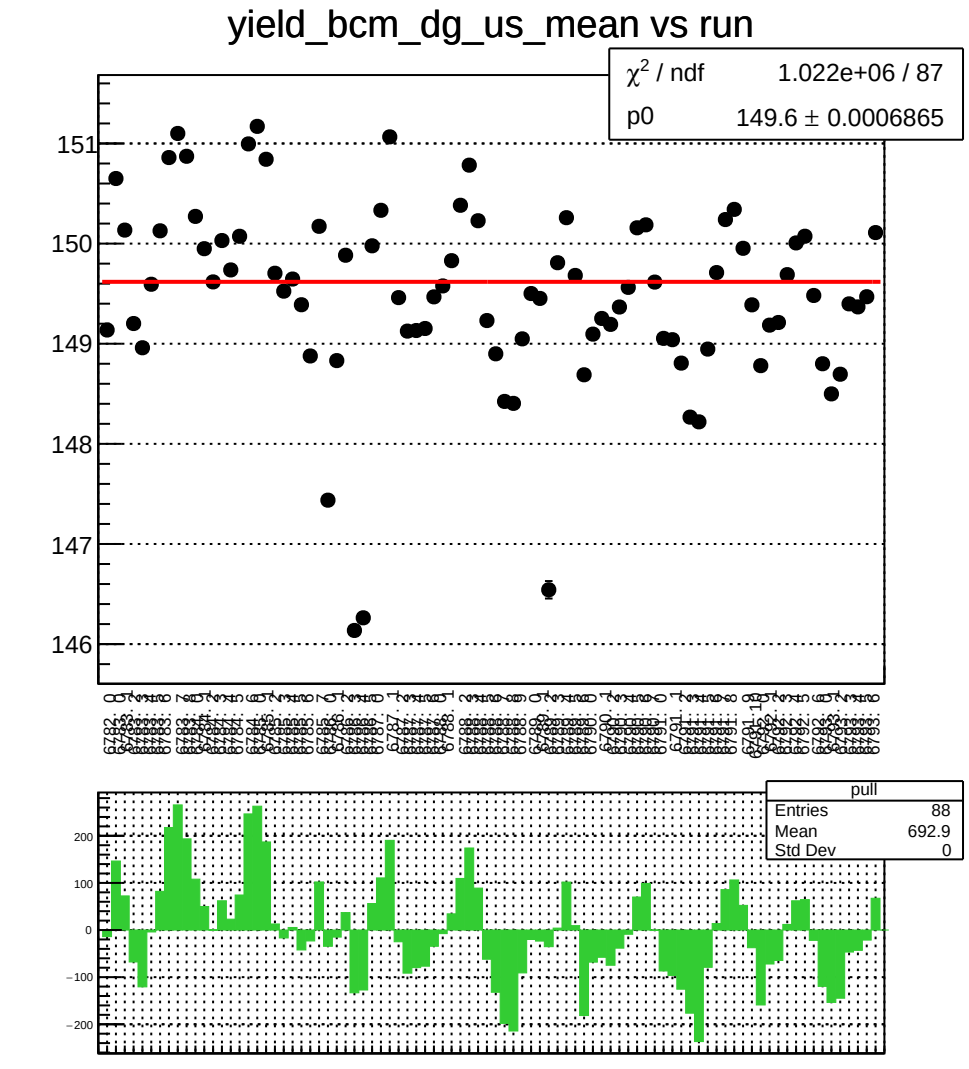

pull1D
Entries 88
Mean −1.144
Std Dev 5.471
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

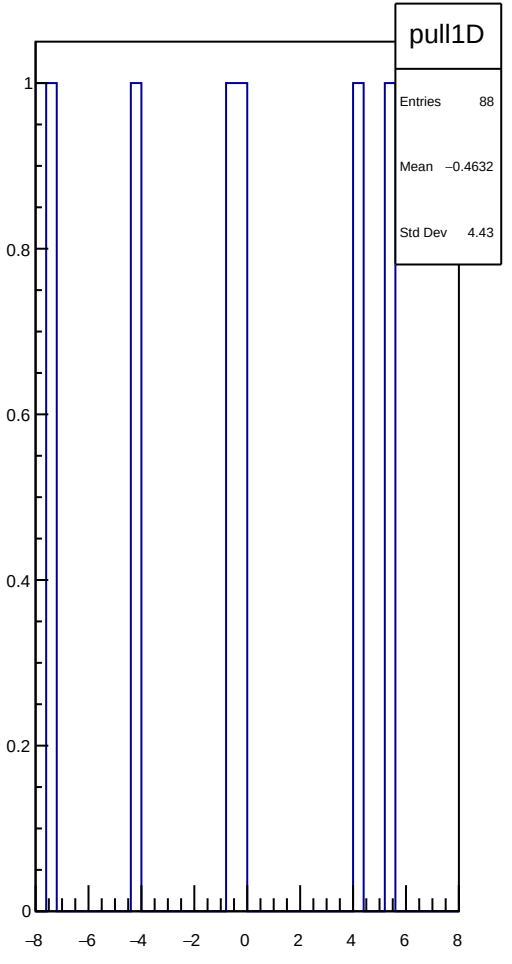

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 1.162e+05 / 87
p0 0.5778 ± 0.0004658
9
8
7
6
5
4
3
2
1

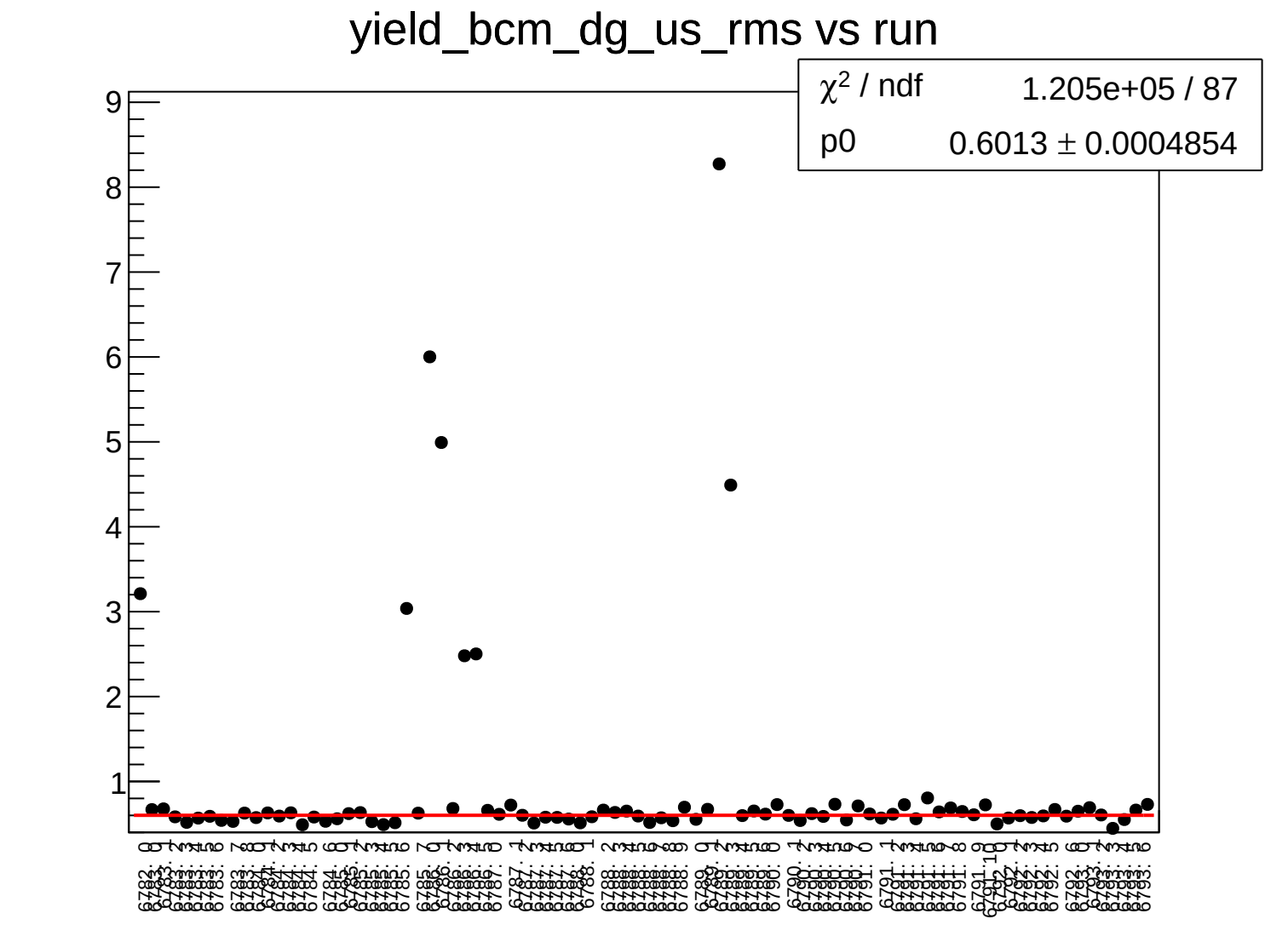

yield_bcm_an_us_mean vs run
χ² / ndf 4.327e+05 / 87
p0 147.9 ± 0.0006573
149
148
147
146
145
144
pull
Entries 88
Mean 316
Std Dev 0
200
150
100
50
0
−50
−100
−150

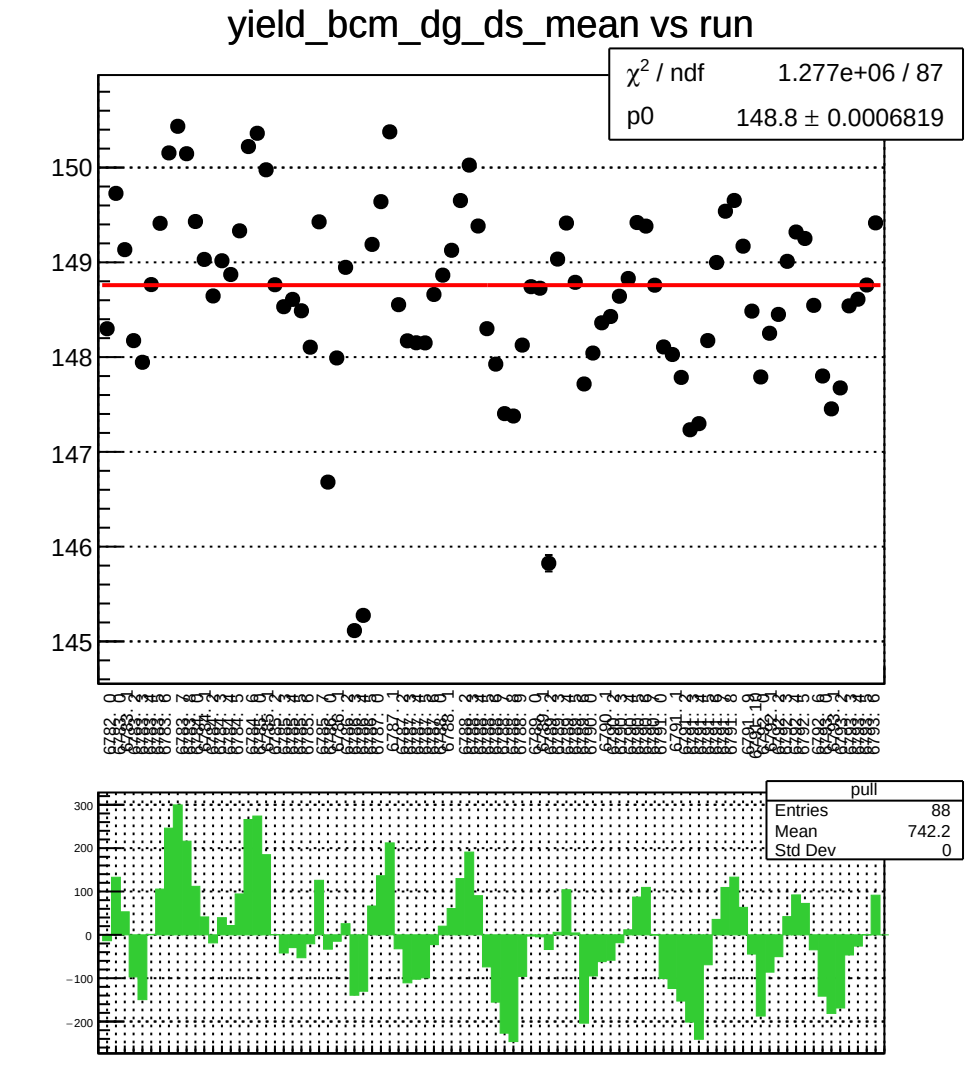

pull1D
Entries 88
Mean −0.8529
Std Dev 3.792
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

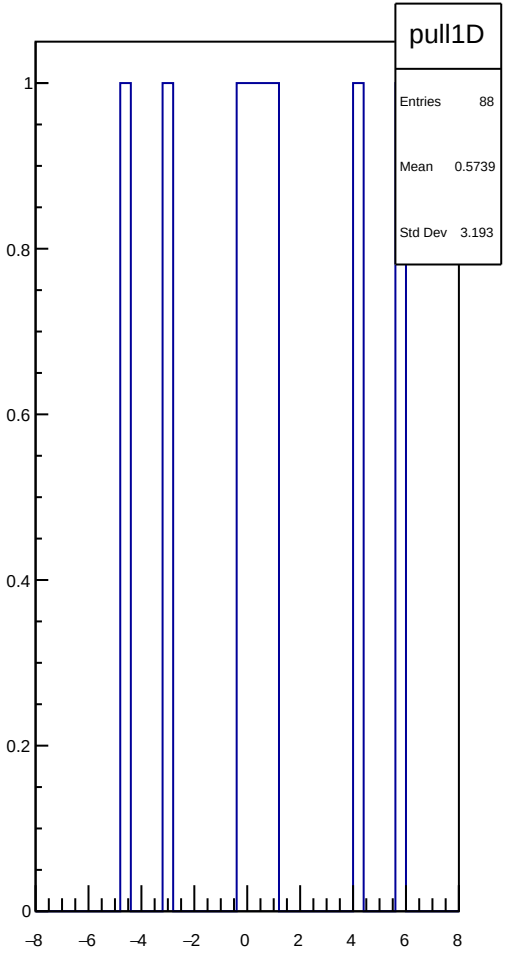

yield_bcm_an_us_rms vs run
χ² / ndf 1.161e+05 / 87
p0 0.5765 ± 0.0004648
9
8
7
6
5
4
3
2
1

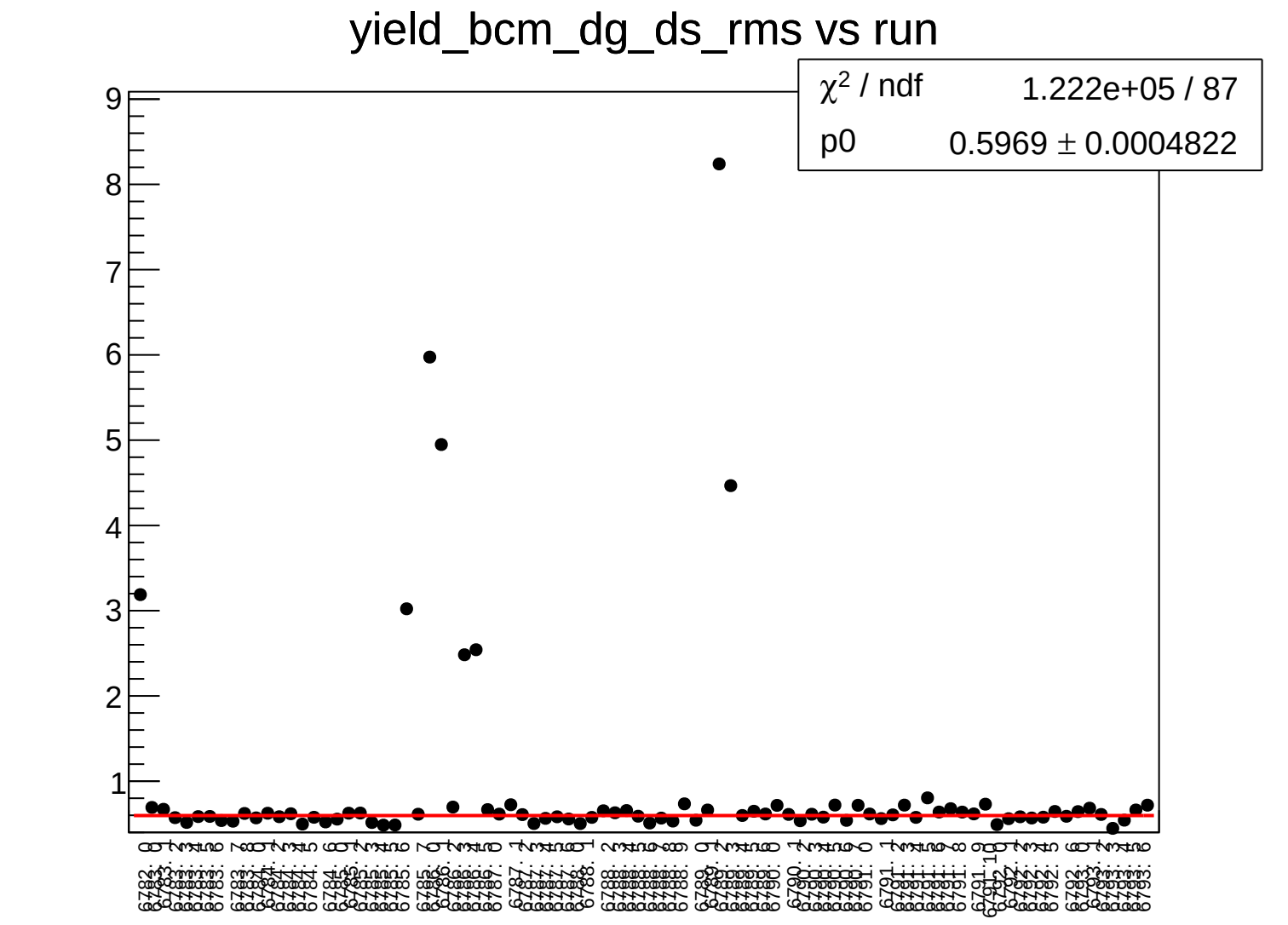

yield_bcm_dg_us_mean vs run
χ² / ndf 1.022e+06 / 87
p0 149.6 ± 0.0006865
151
150
149
148
147
146
pull
Entries 88
Mean 692.9
Std Dev 0
200
100
0
−100
−200

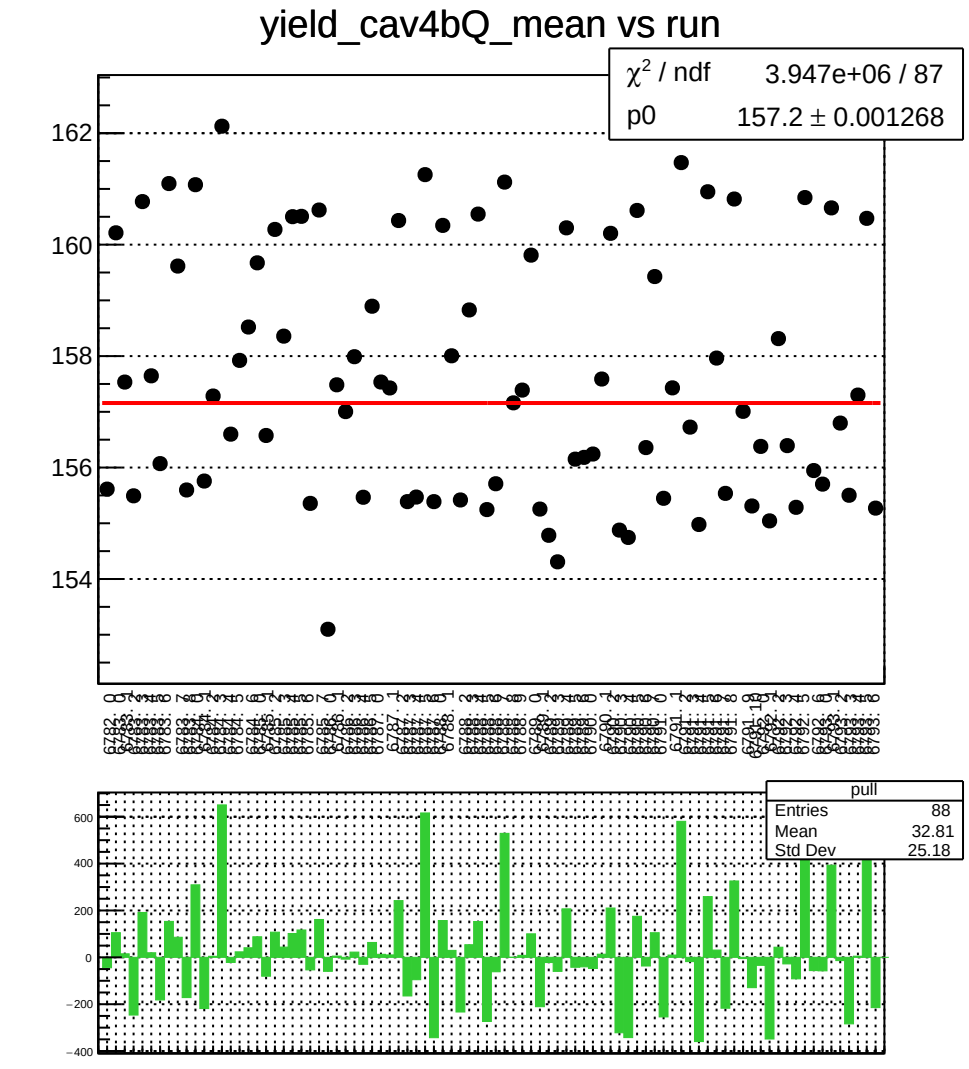

pull1D
Entries 88
Mean −0.4632
Std Dev 4.43
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

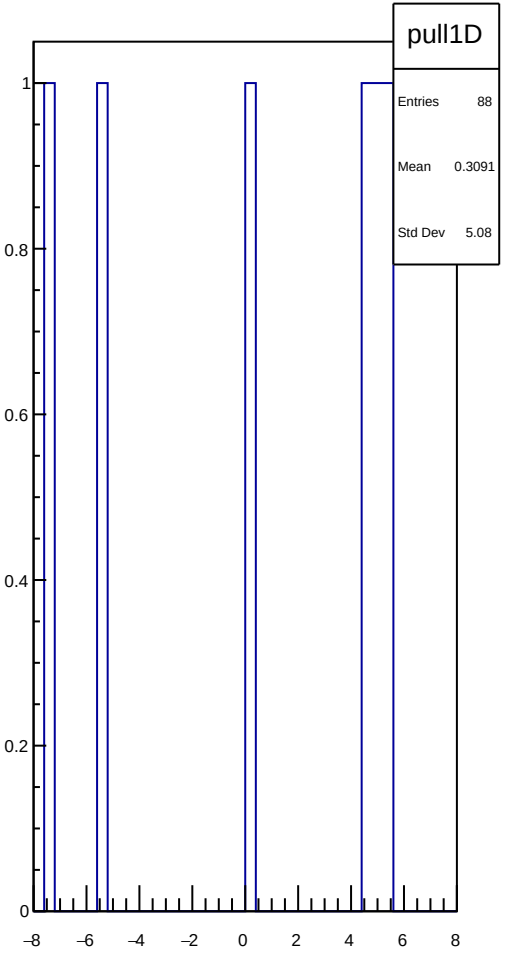

yield_bcm_dg_us_rms vs run
χ² / ndf 1.205e+05 / 87
p0 0.6013 ± 0.0004854
9
8
7
6
5
4
3
2
1

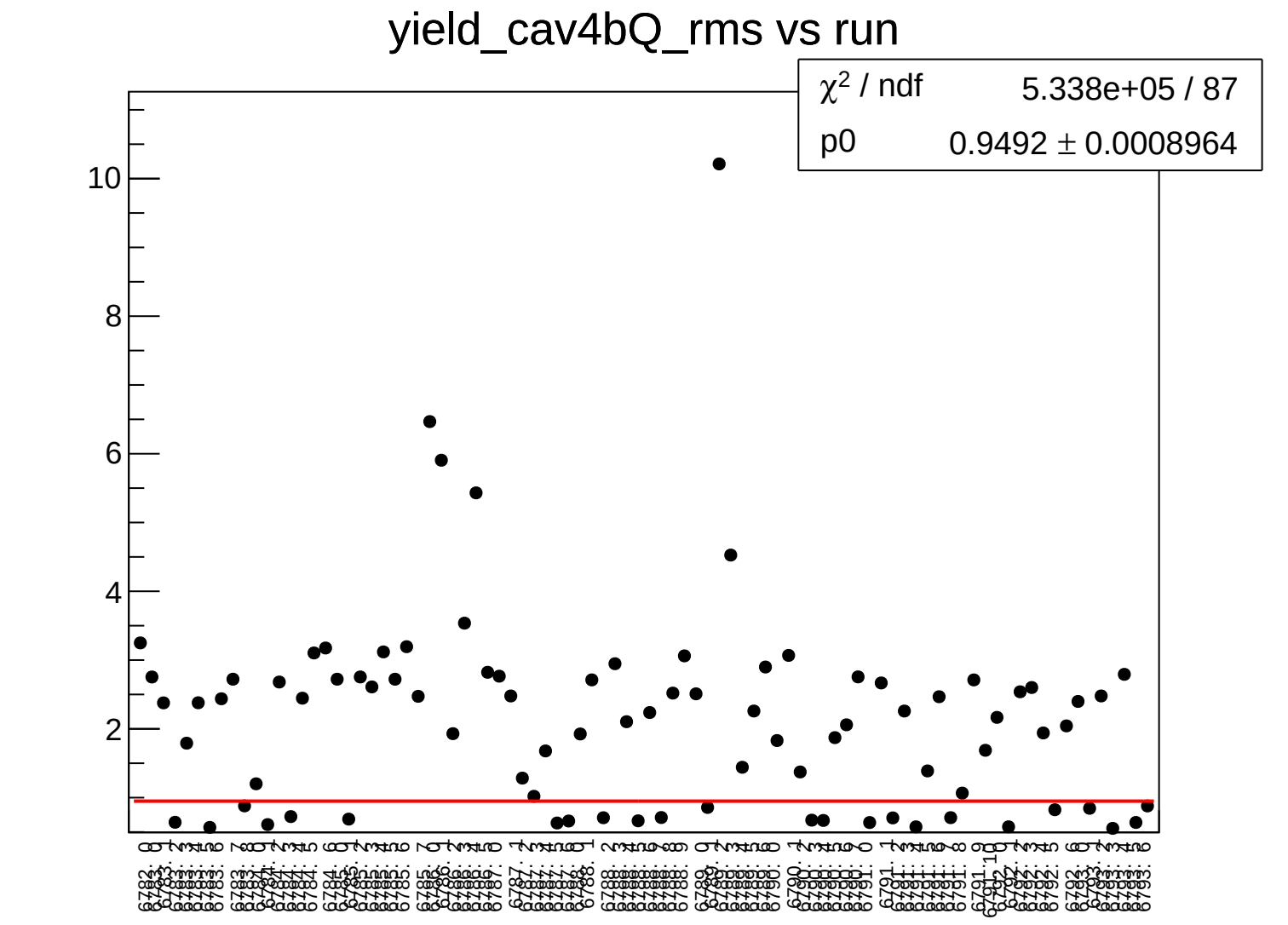

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.277e+06 / 87
p0 148.8 ± 0.0006819
150
149
148
147
146
145
pull
Entries 88
Mean 742.2
Std Dev 0
300
200
100
0
−100
−200

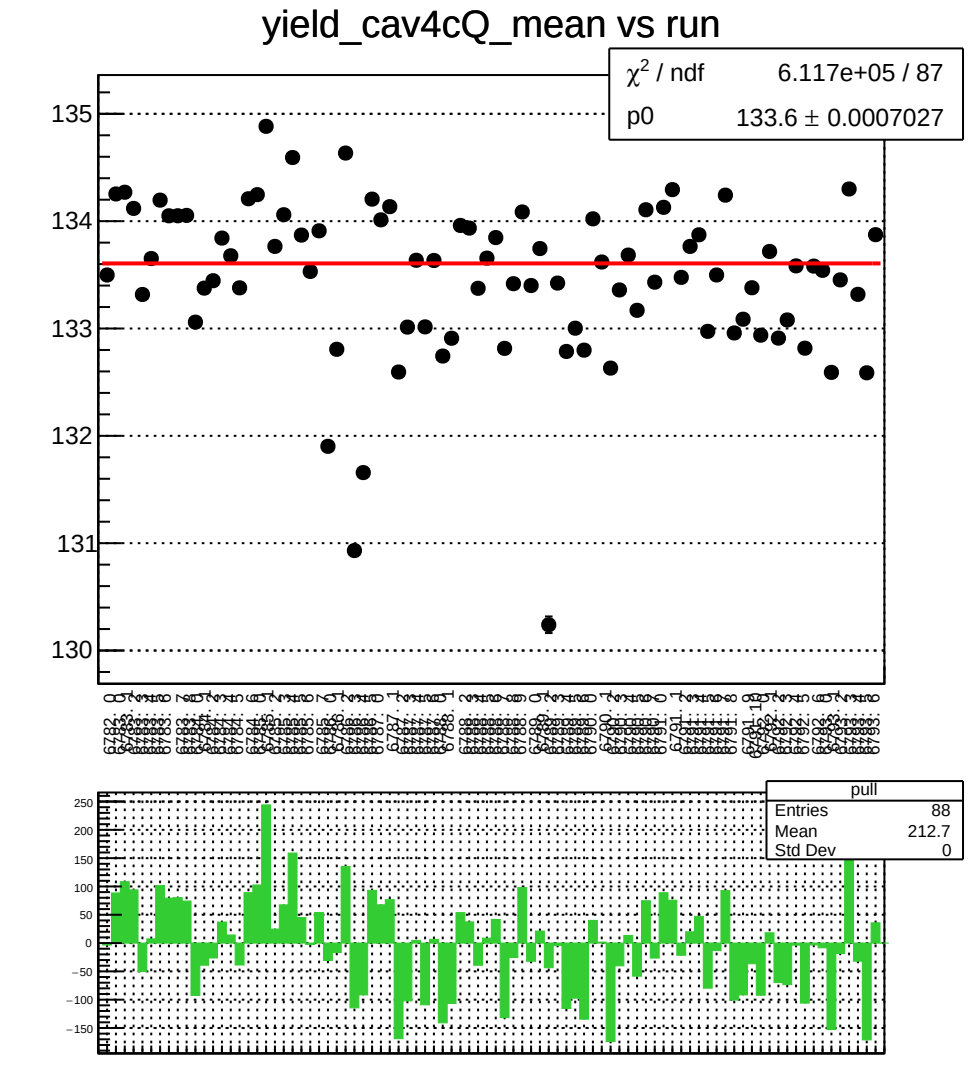

pull1D
Entries 88
Mean 0.5739
Std Dev 3.193
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

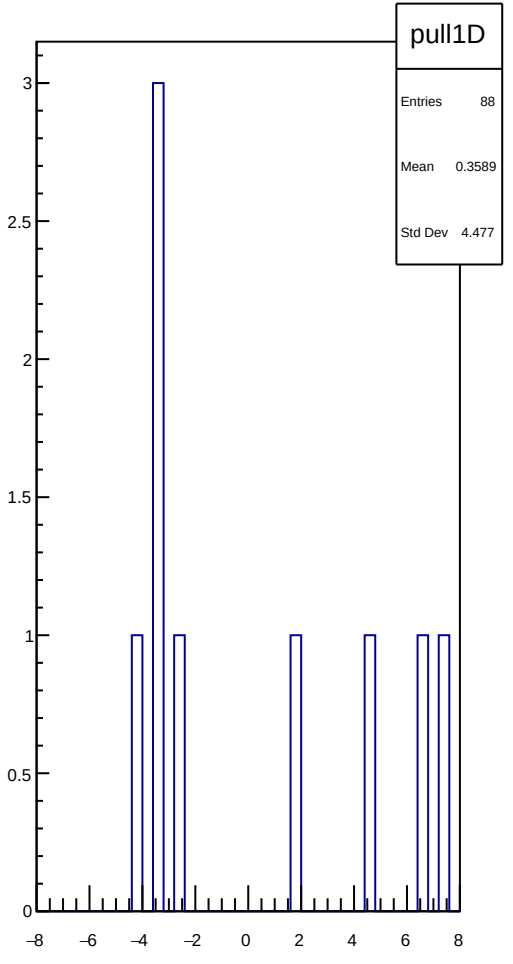

yield_bcm_dg_ds_rms vs run
χ^2 / ndf 1.222e+05 / 87
p0 0.5969 ± 0.0004822
9
8
7
6
5
4
3
2
1

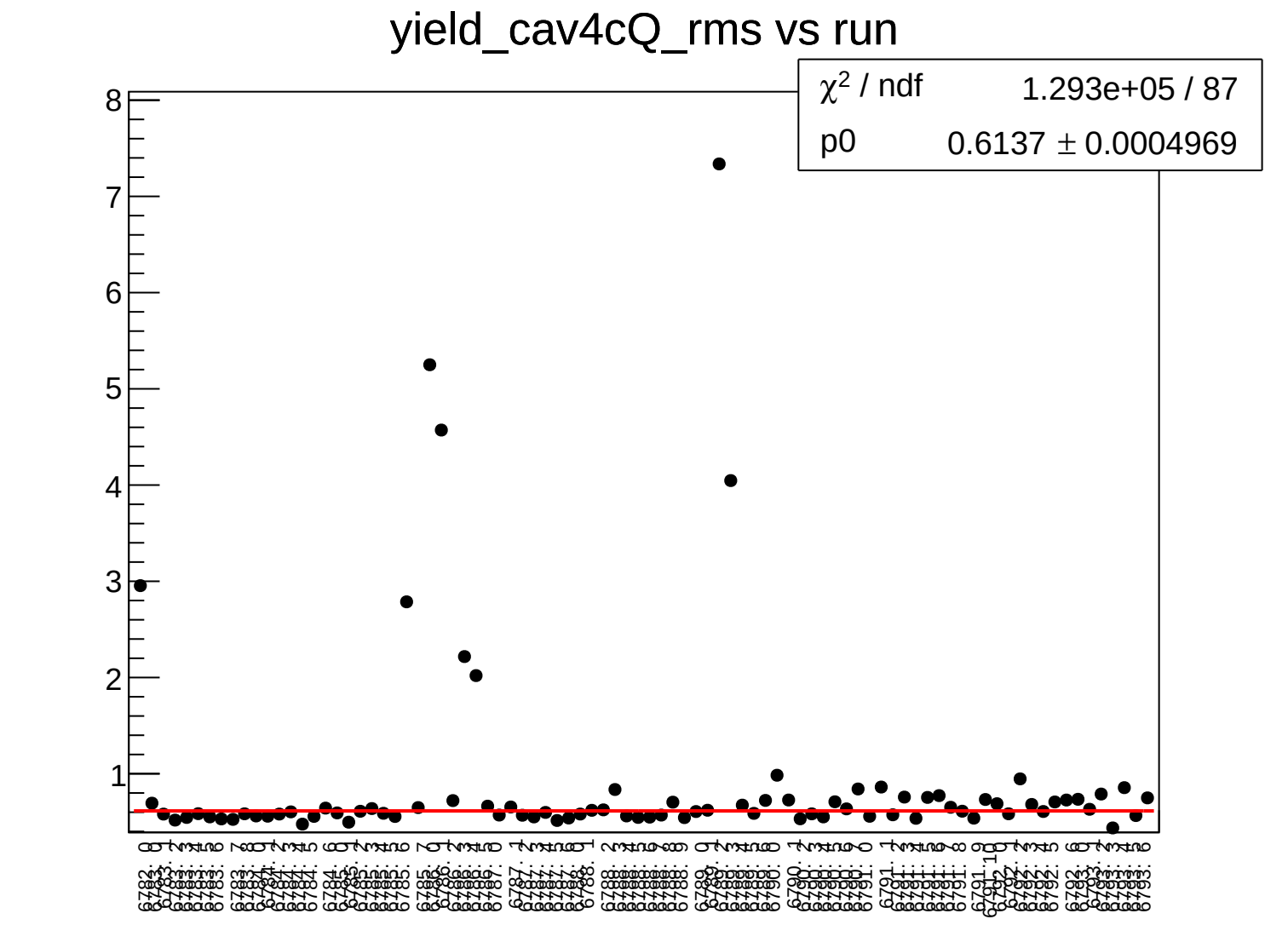

yield_cav4bQ_mean vs run
χ² / ndf 3.947e+06 / 87
p0 157.2 ± 0.001268
162
160
158
156
154
pull
Entries 88
Mean 32.81
Std Dev 25.18
600
400
200
0
−200
−400

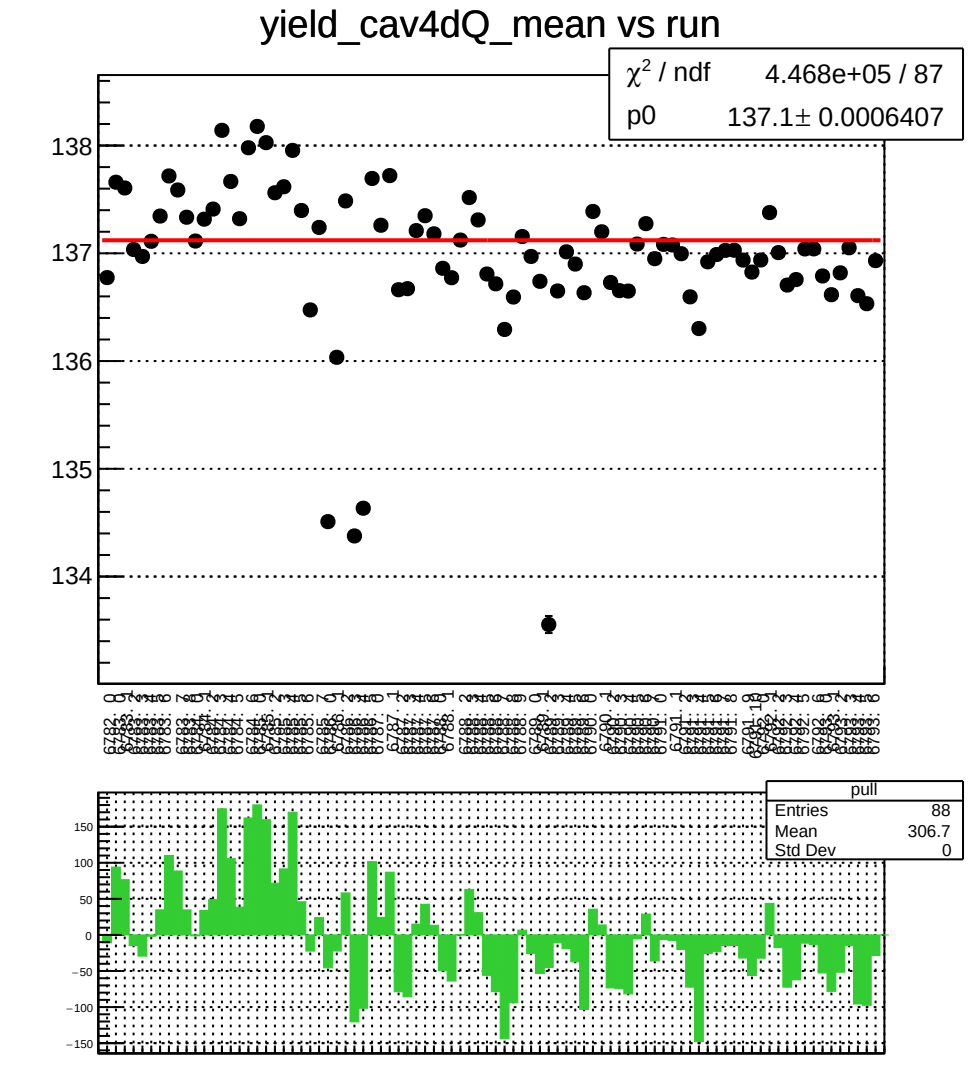

pull1D
Entries 88
Mean 0.3091
Std Dev 5.08
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

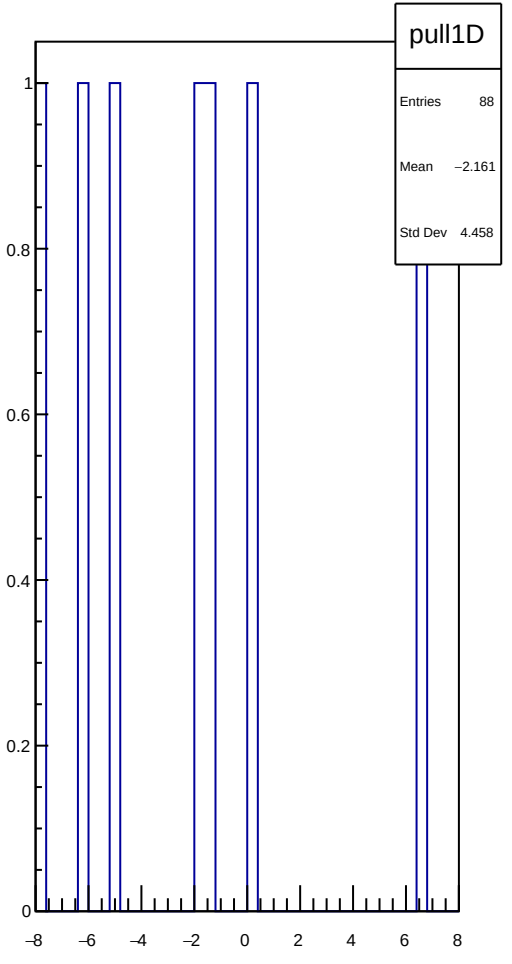

yield_cav4bQ_rms vs run
χ^2 / ndf 5.338e+05 / 87
p0 0.9492 ± 0.0008964
10
8
6
4
2

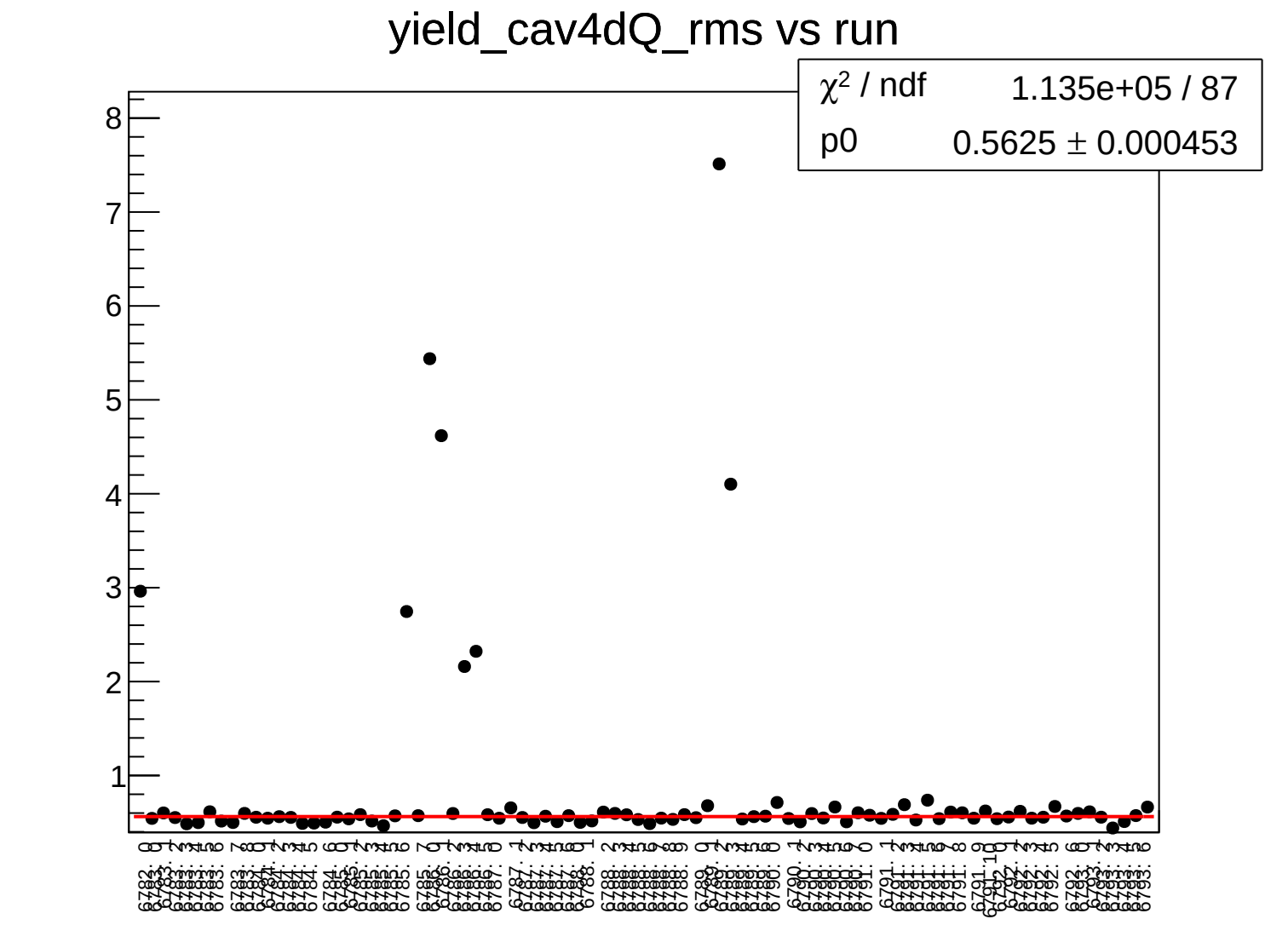

yield_cav4cQ_mean vs run
χ² / ndf 6.117e+05 / 87
p0 133.6 ± 0.0007027
135
134
133
132
131
130
pull
Entries 88
Mean 212.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

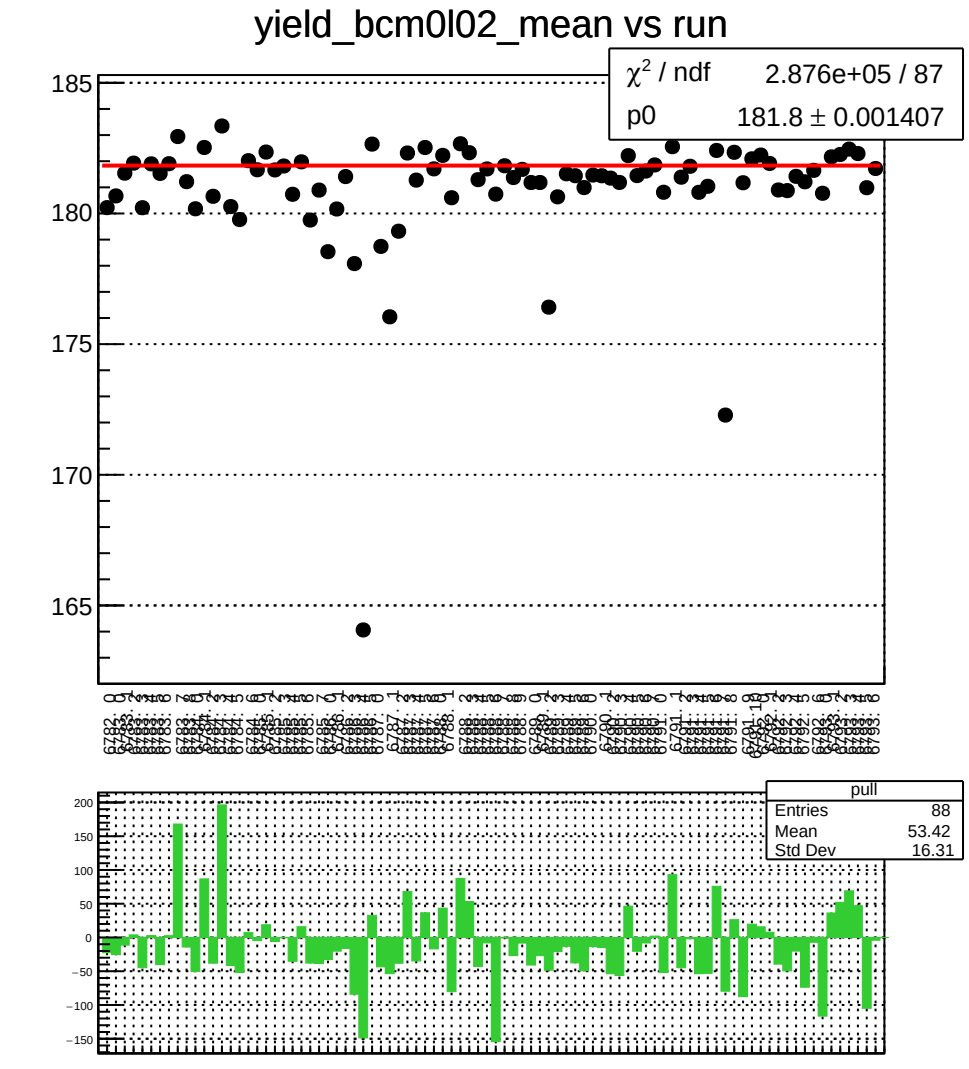

pull1D
Entries 88
Mean 0.3589
Std Dev 4.477
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

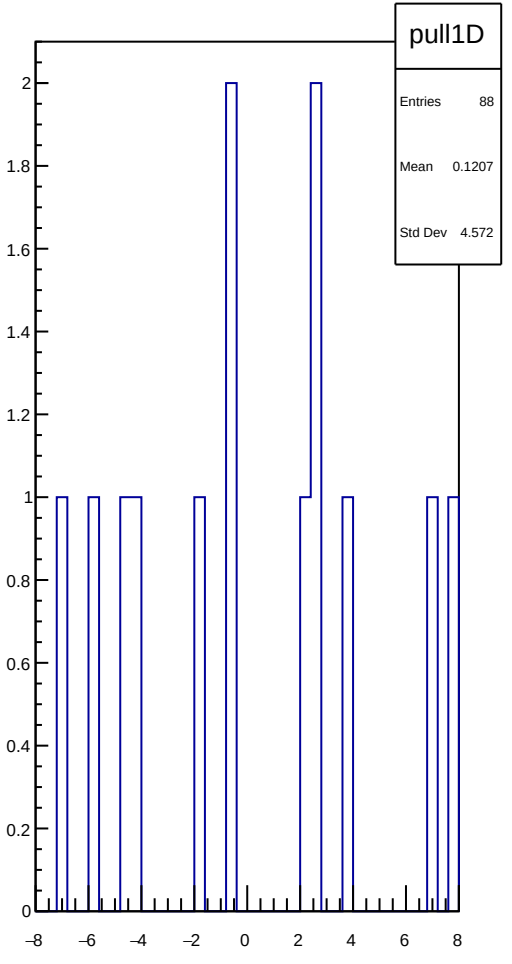

yield_cav4cQ_rms vs run
χ² / ndf 1.293e+05 / 87
p0 0.6137 ± 0.0004969
8
7
6
5
4
3
2
1


yield_cav4dQ_mean vs run
χ² / ndf 4.468e+05 / 87
p0 137.1± 0.0006407
138
137
136
135
134
pull
Entries 88
Mean 306.7
Std Dev 0
150
100
50
0
−50
−100
−150

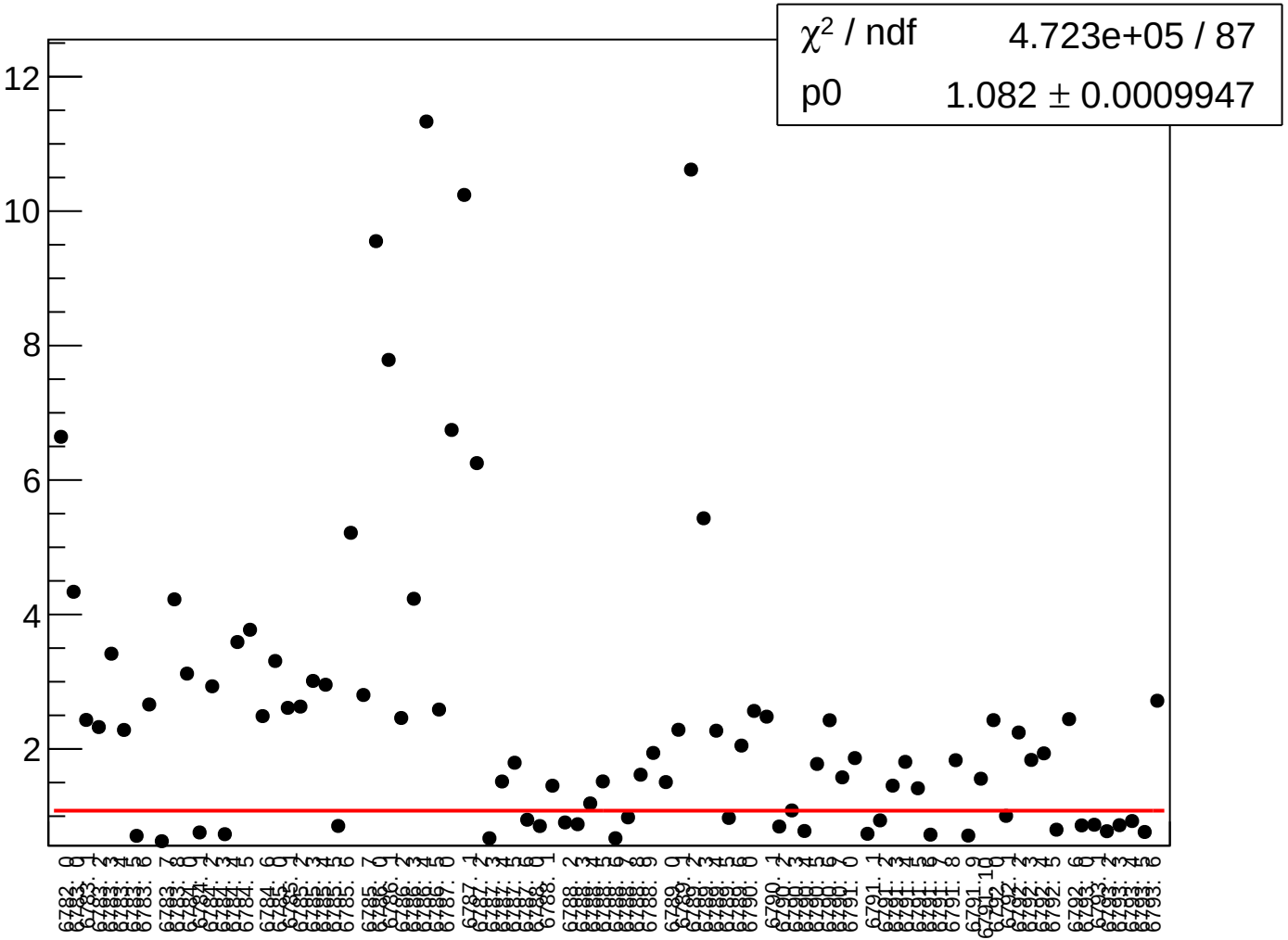

pull1D
Entries 88
Mean −2.161
Std Dev 4.458
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

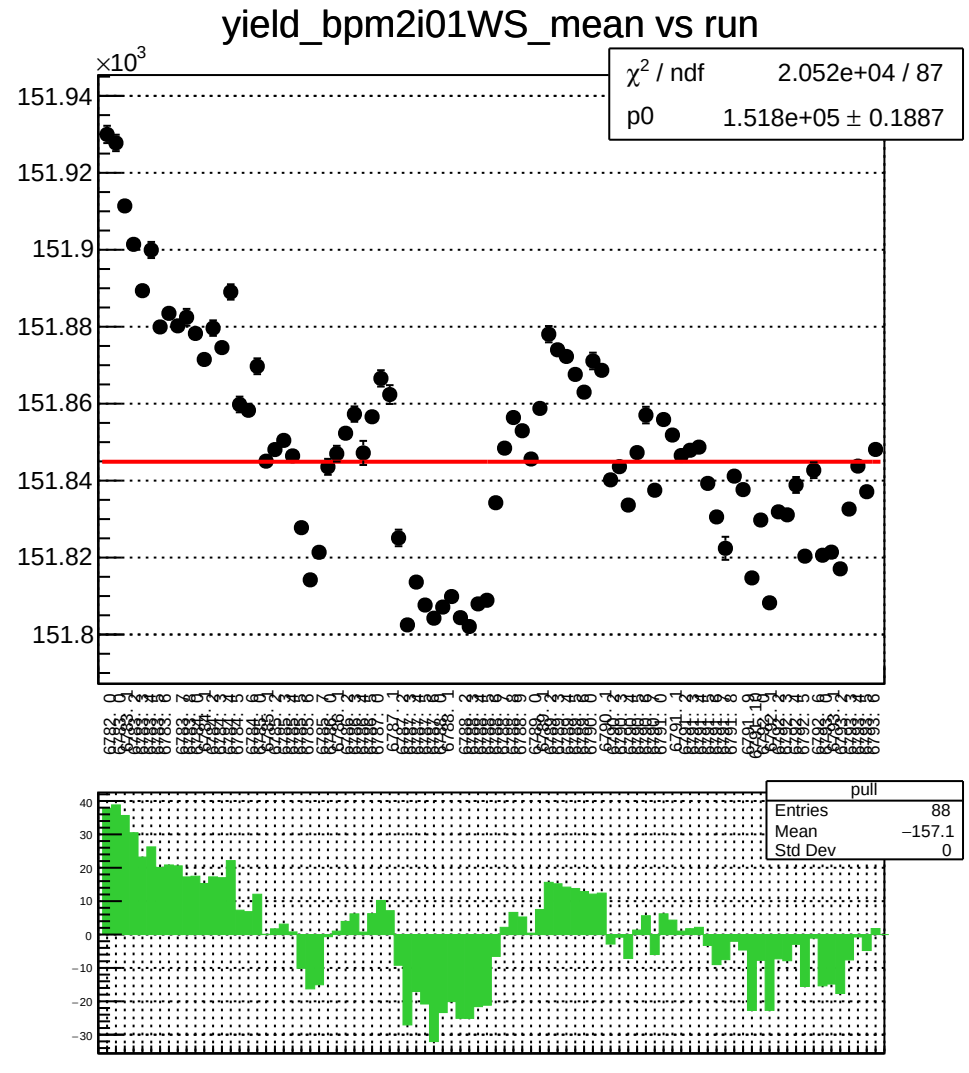

yield_cav4dQ_rms vs run
χ² / ndf 1.135e+05 / 87
p0 0.5625 ± 0.000453
8
7
6
5
4
3
2
1

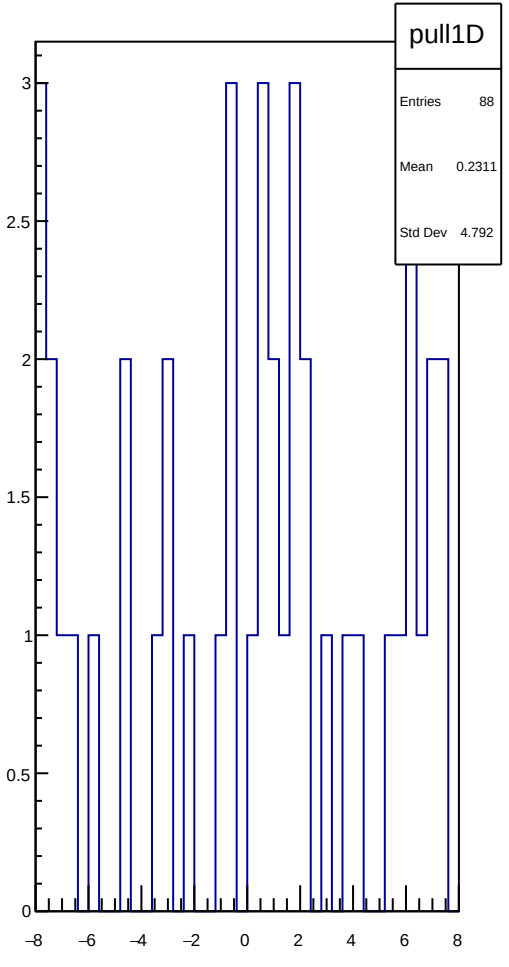

yield_bcm0l02_mean vs run
χ² / ndf 2.876e+05 / 87
p0 181.8 ± 0.001407
185
180
175
170
165
pull
Entries 88
Mean 53.42
Std Dev 16.31
200
150
100
50
0
−50
−100
−150

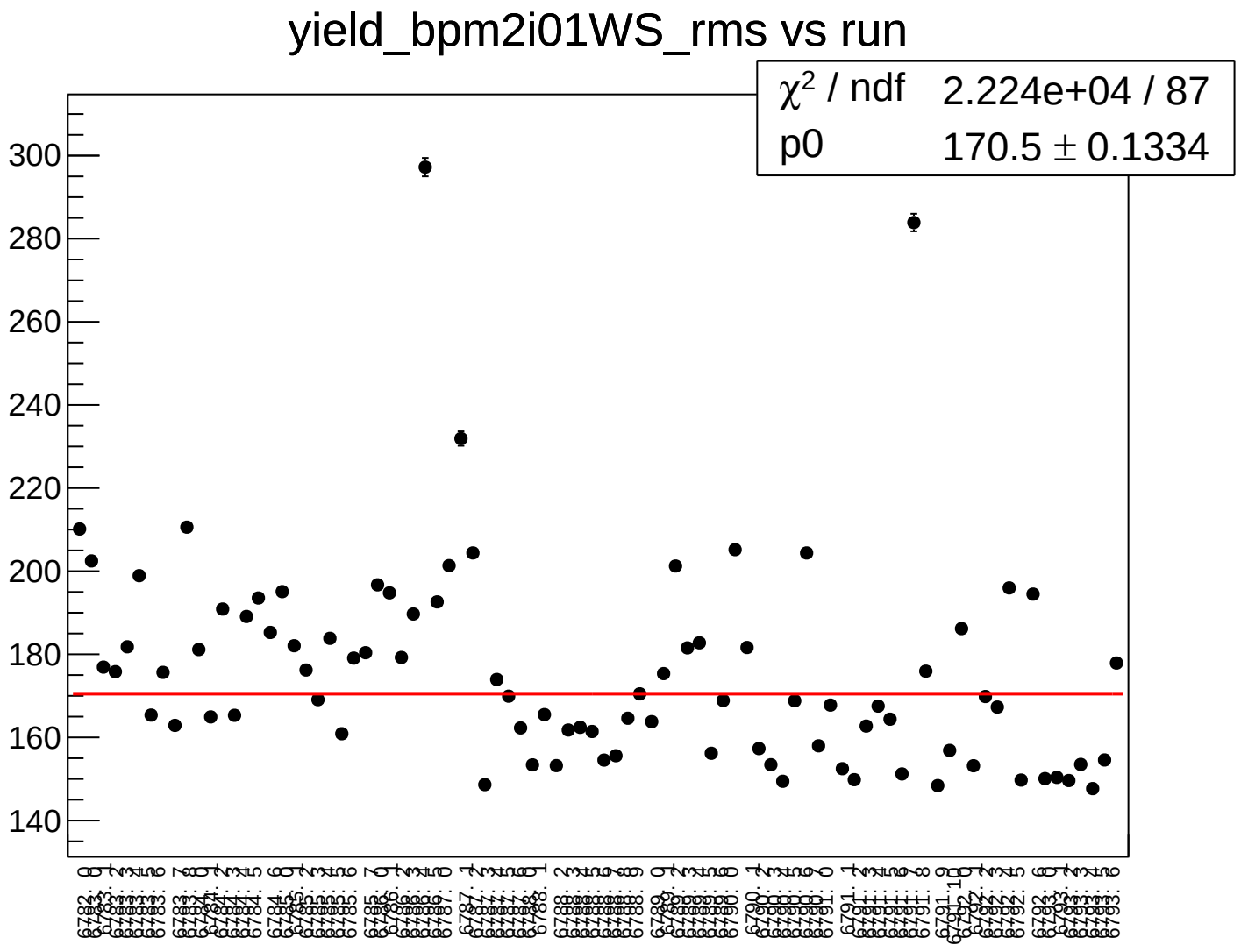

pull1D
Entries 88
Mean 0.1207
Std Dev 4.572
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

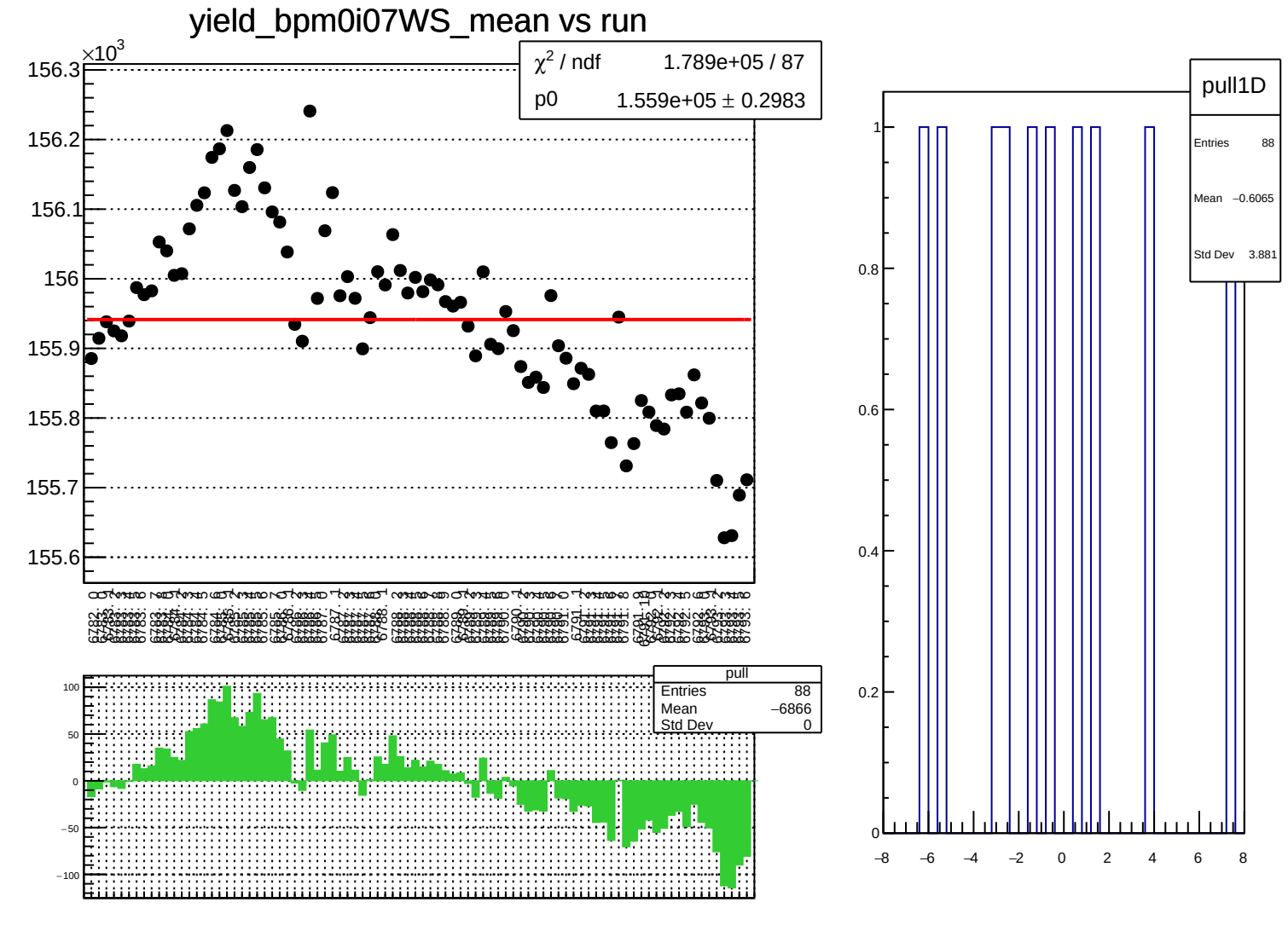
yield_bcm0l02_rms vs run

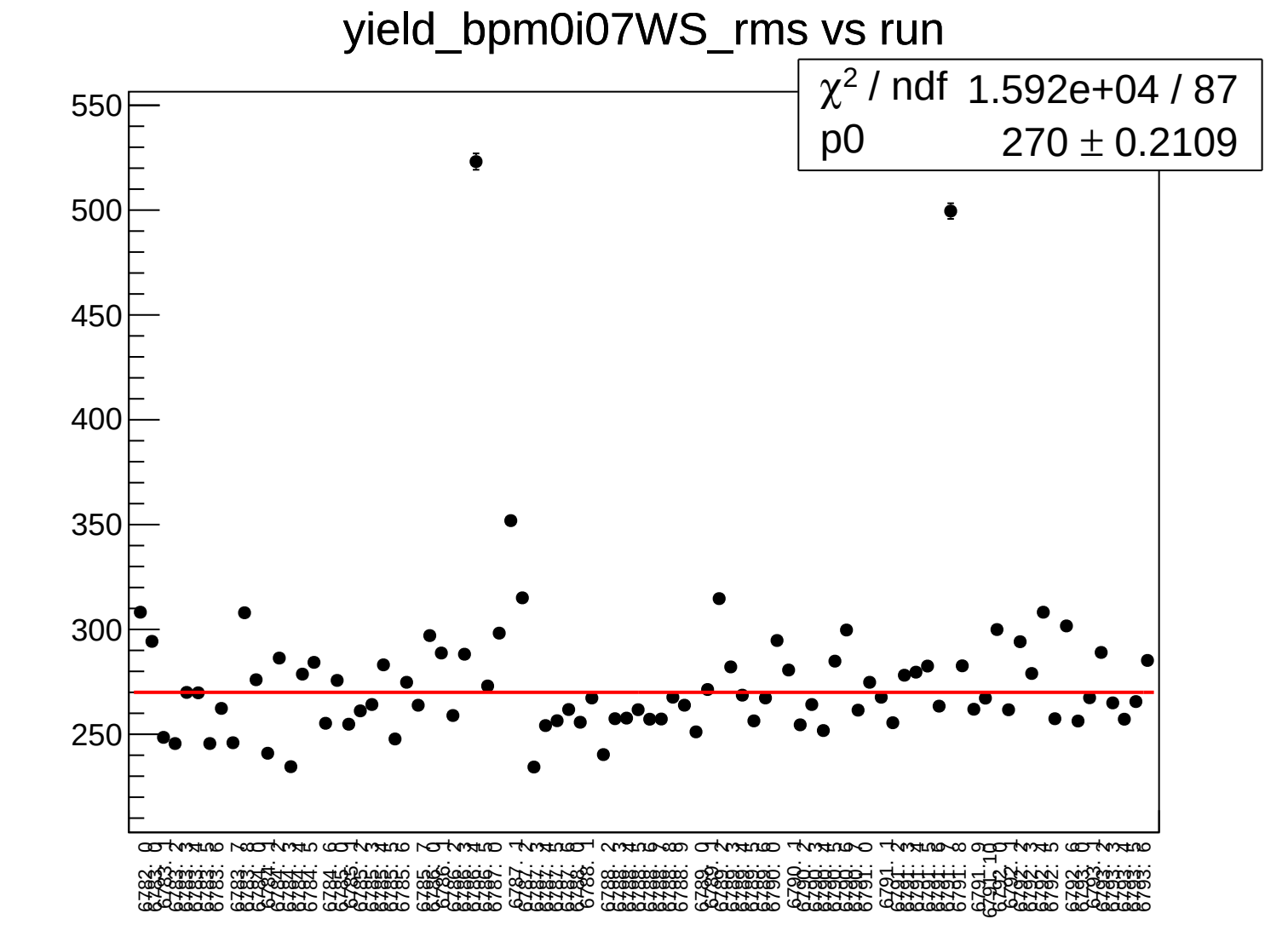


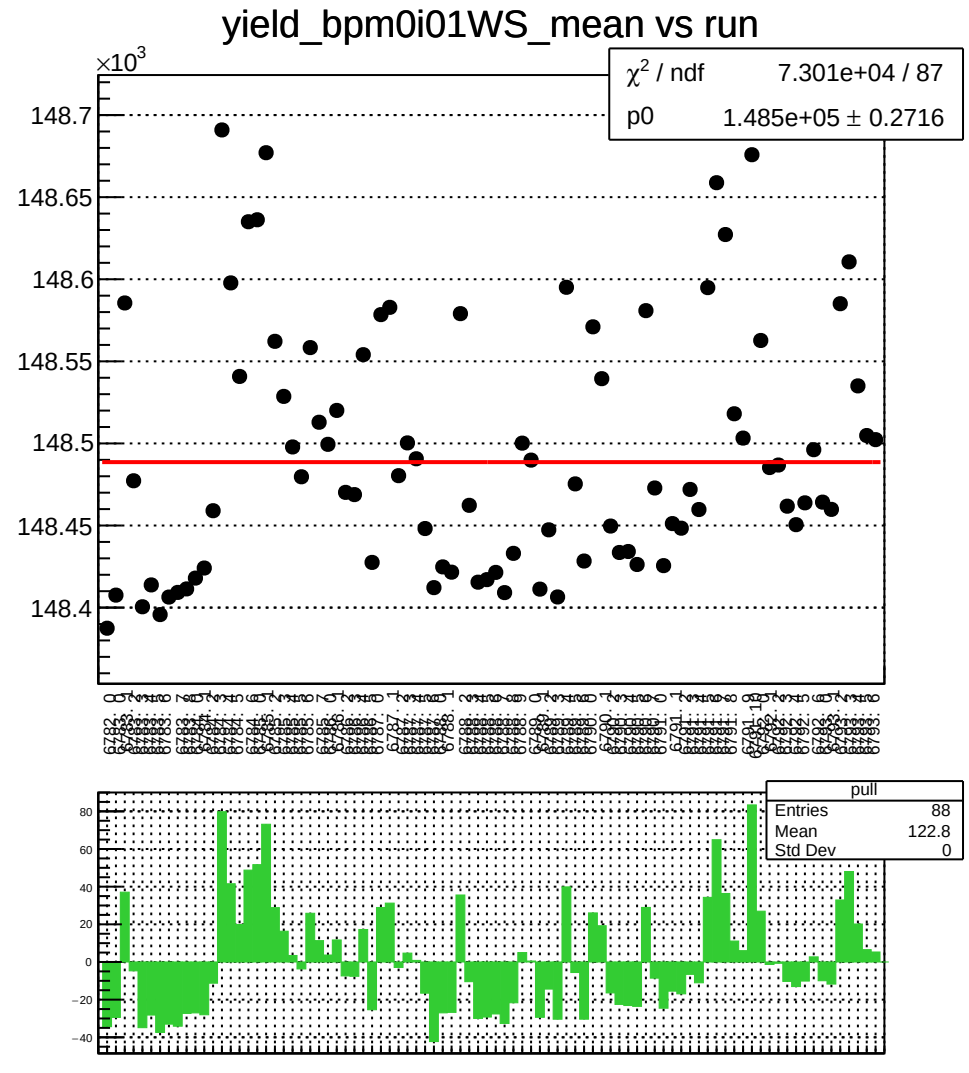

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.052e+04 / 87
p0 1.518e+05 ± 0.1887
151.94
151.92
151.9
151.88
151.86
151.84
151.82
151.8
pull
Entries 88
Mean −157.1
Std Dev 0
40
30
20
10
0
−10
−20
−30

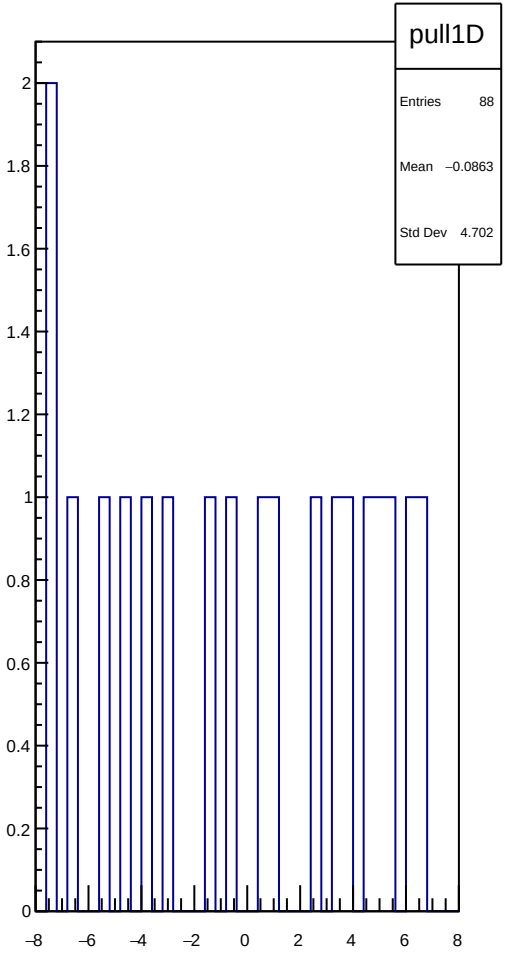

pull1D
Entries 88
Mean 0.2311
Std Dev 4.792
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

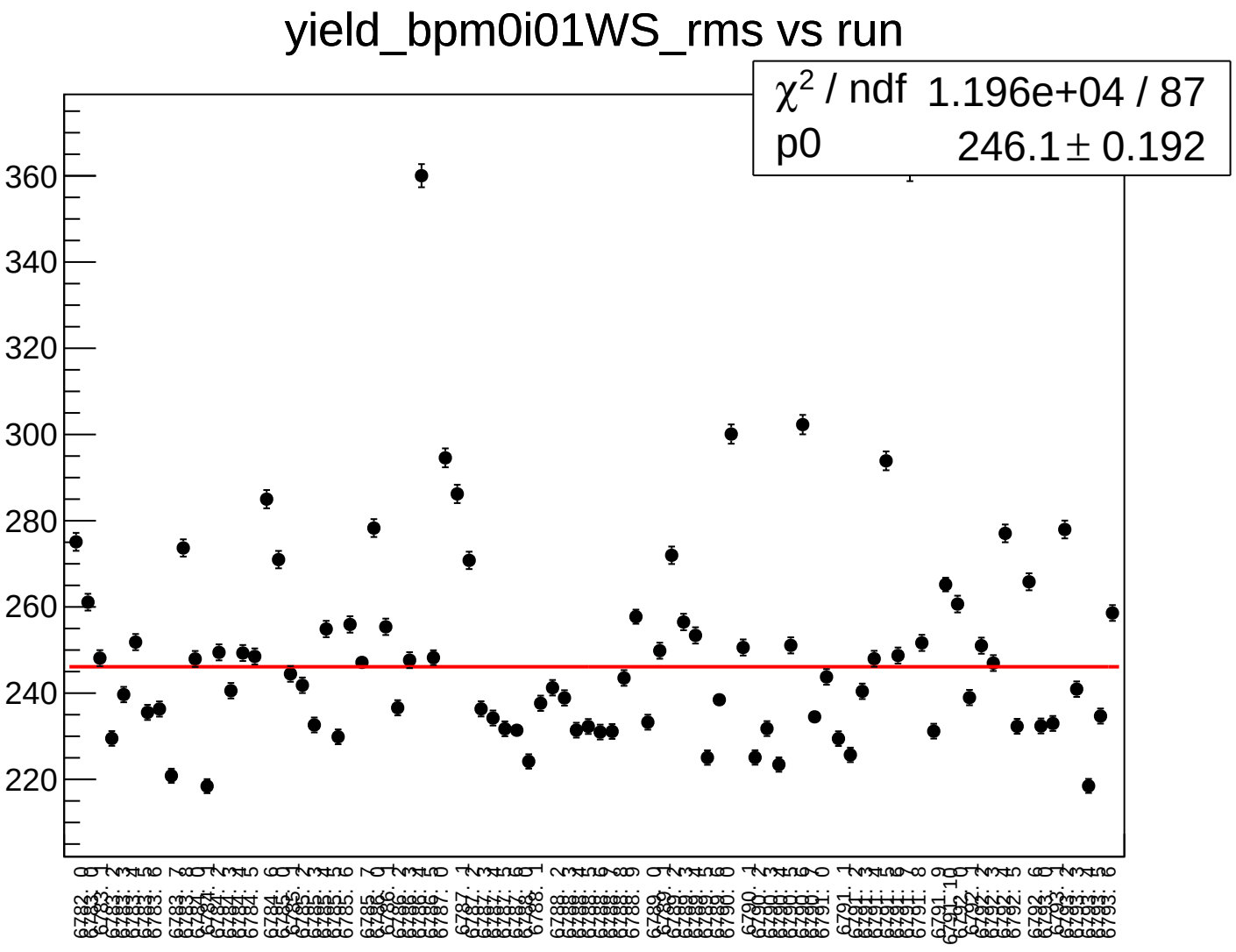

yield_bpm2i01WS_rms vs run
χ² / ndf 2.224e+04 / 87
p0 170.5 ± 0.1334
300
280
260
240
220
200
180
160
140

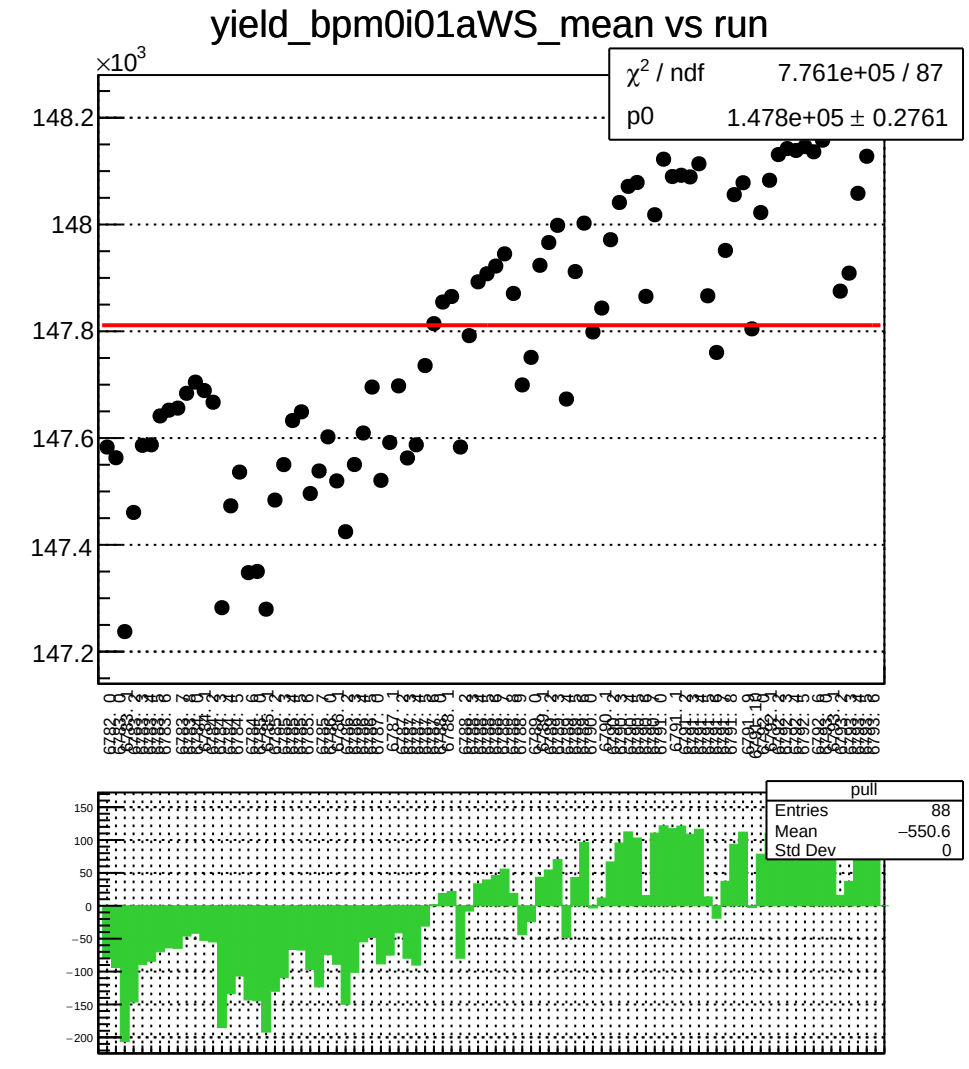

yield_bpm0i07WS_mean vs run
×10^3
156.3
156.2
156.1
156
155.9
155.8
155.7
155.6
χ² / ndf 1.789e+05 / 87
p0 1.559e+05 ± 0.2983
pull
Entries 88
Mean −6866
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 88
Mean −0.6065
Std Dev 3.881
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

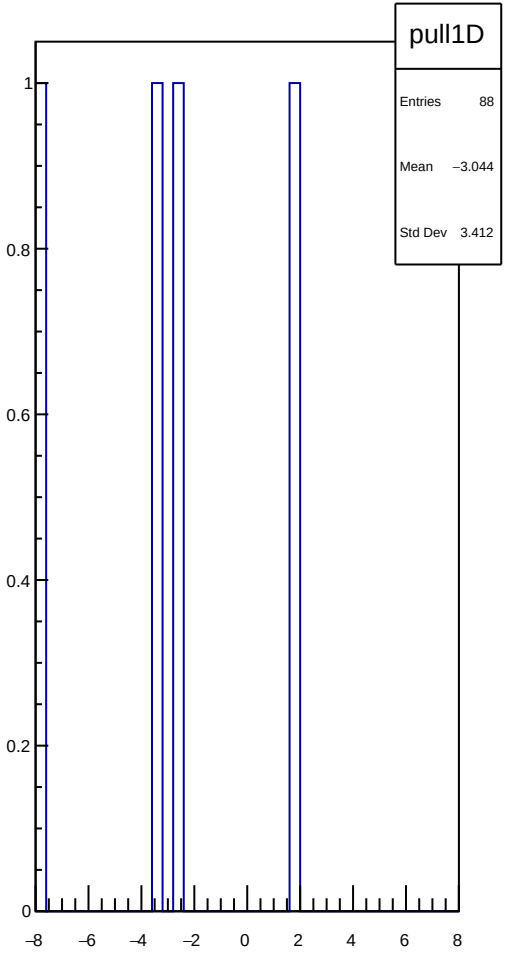

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.592e+04 / 87
p0 270 ± 0.2109
550
500
450
400
350
300
250

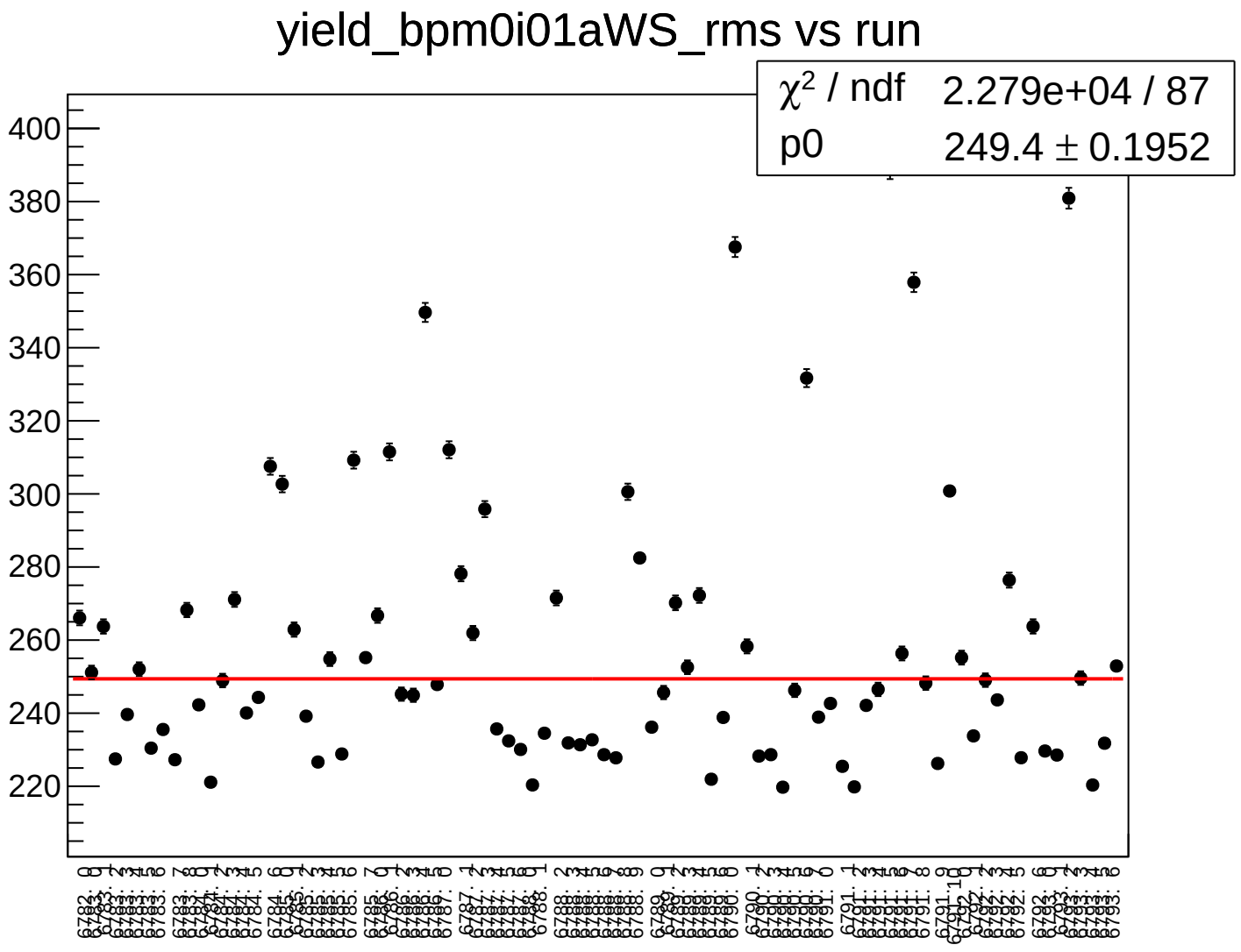

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 7.301e+04 / 87
p0 1.485e+05 ± 0.2716
148.7
148.65
148.6
148.55
148.5
148.45
148.4
pull
Entries 88
Mean 122.8
Std Dev 0
80
60
40
20
0
−20
−40

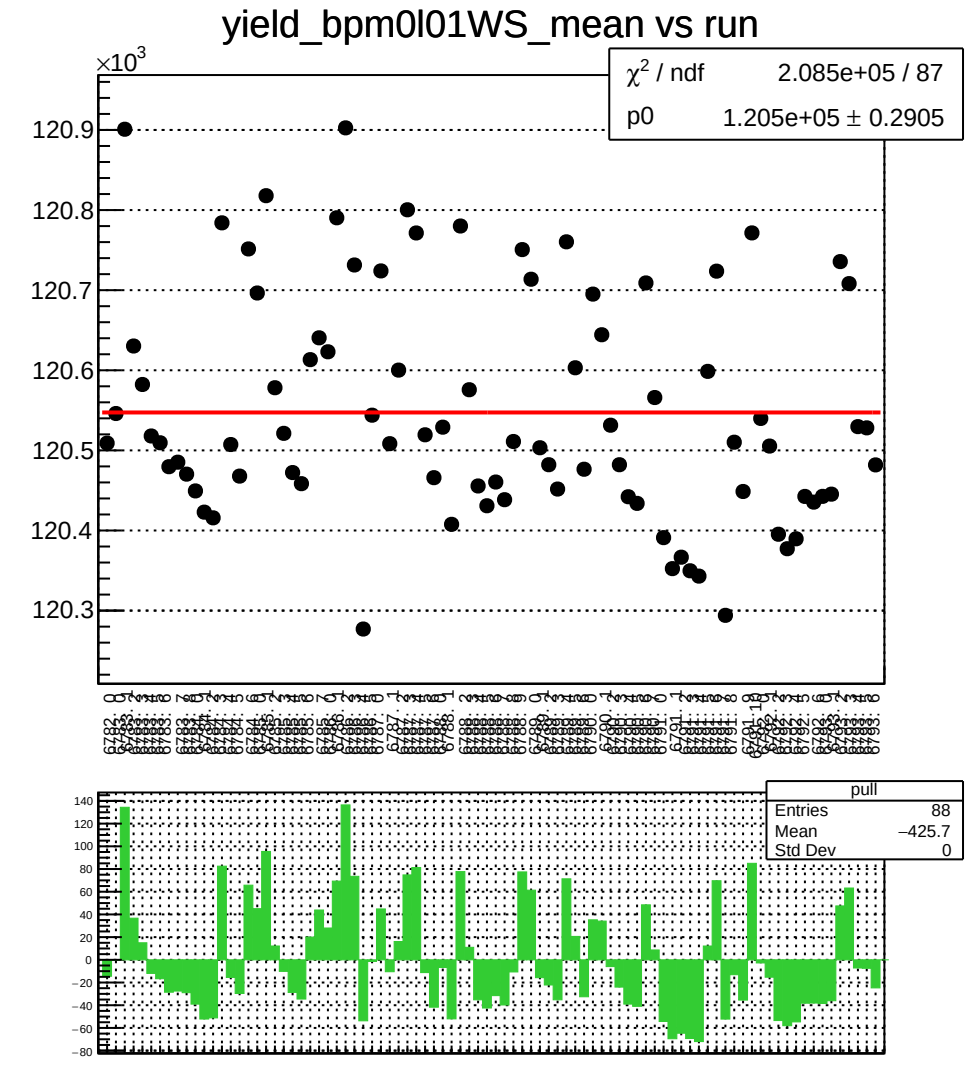

pull1D
Entries 88
Mean −0.0863
Std Dev 4.702
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

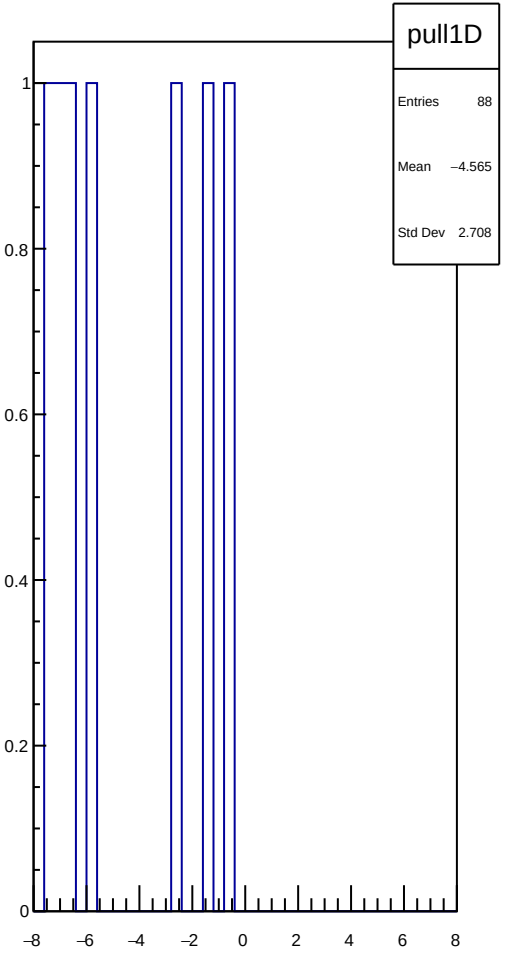

yield_bpm0i01WS_rms vs run
χ^2 / ndf 1.196e+04 / 87
p0 246.1 ± 0.192
360
340
320
300
280
260
240
220

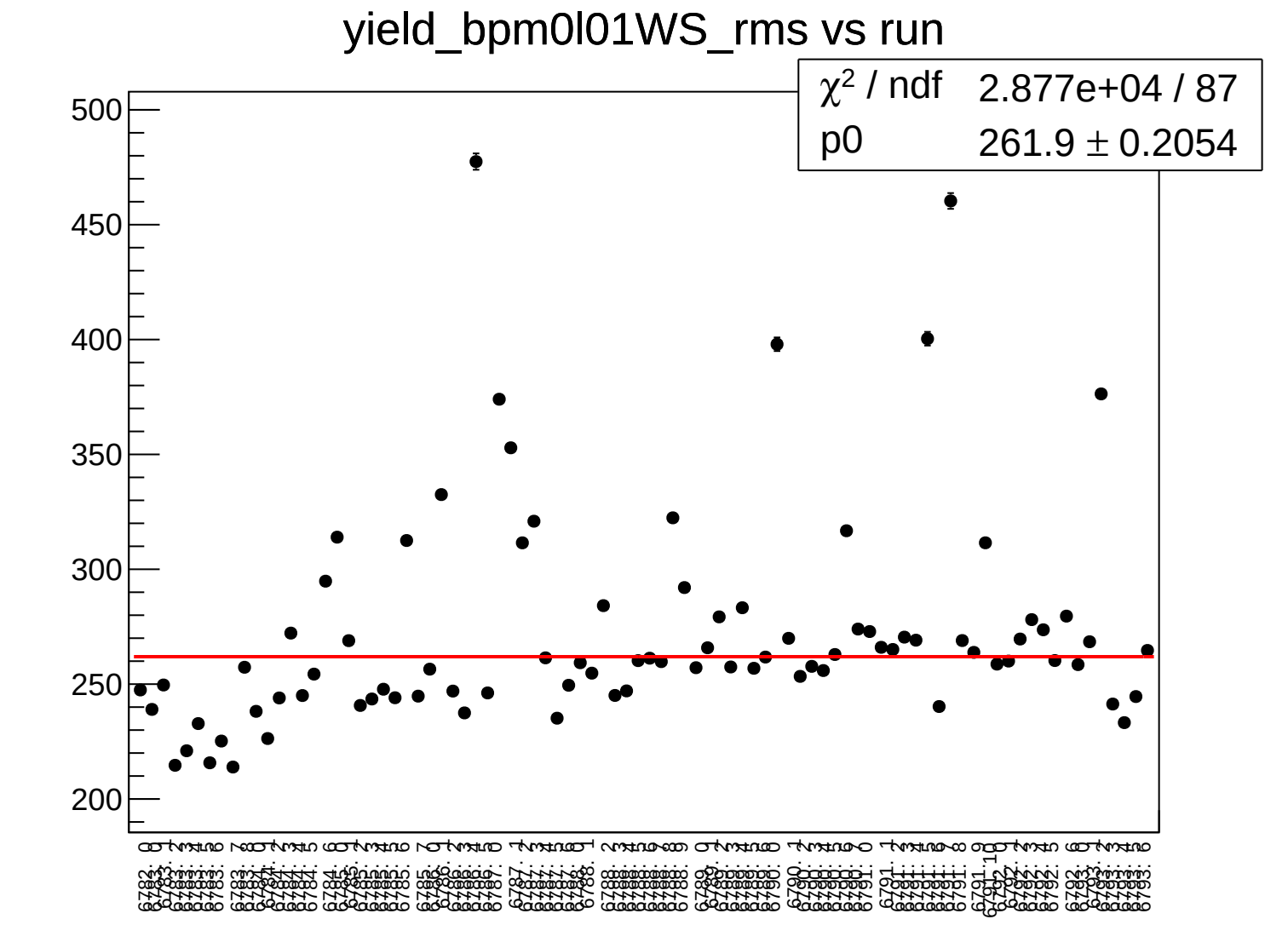

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 7.761e+05 / 87
p0 1.478e+05 ± 0.2761
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 88
Mean −550.6
Std Dev 0
150
100
50
0
−50
−100
−150
−200

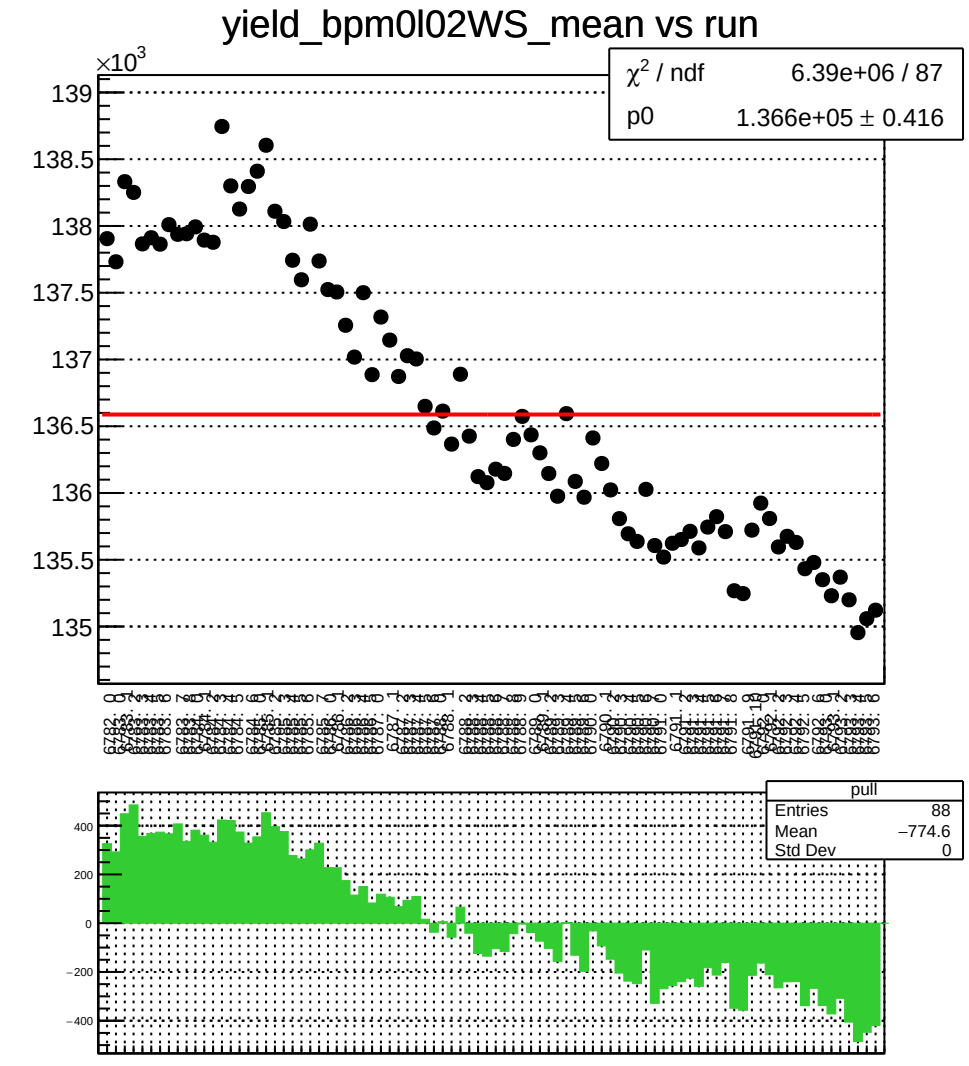

pull1D
Entries 88
Mean −3.044
Std Dev 3.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

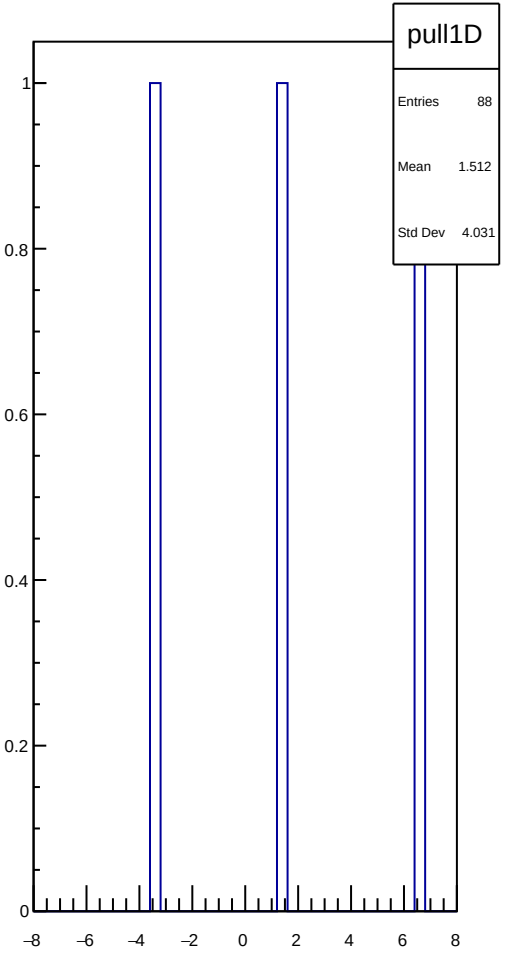

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.279e+04 / 87
p0 249.4 ± 0.1952
400
380
360
340
320
300
280
260
240
220

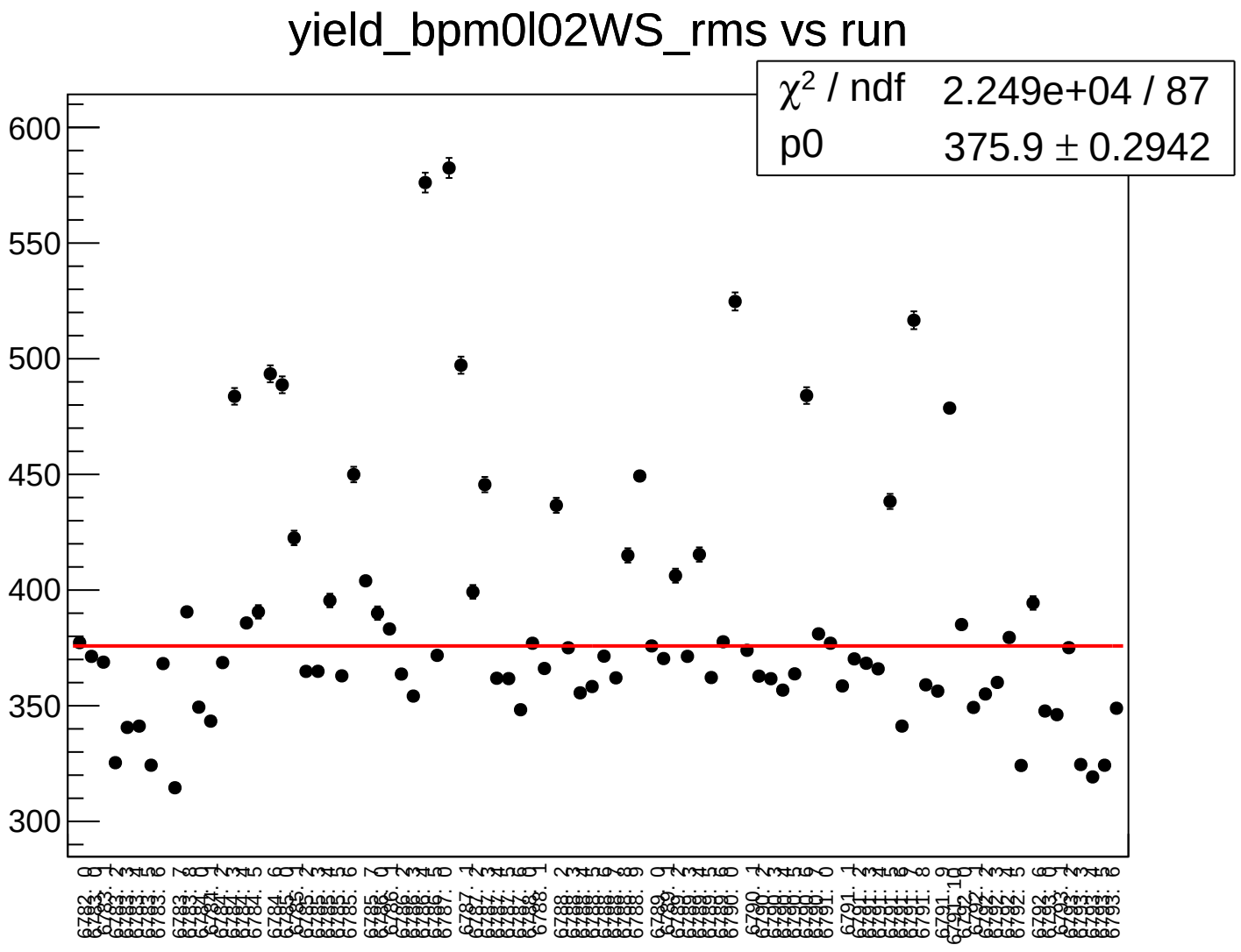

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.085e+05 / 87
p0 1.205e+05 ± 0.2905
120.9
120.8
120.7
120.6
120.5
120.4
120.3
pull
Entries 88
Mean −425.7
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

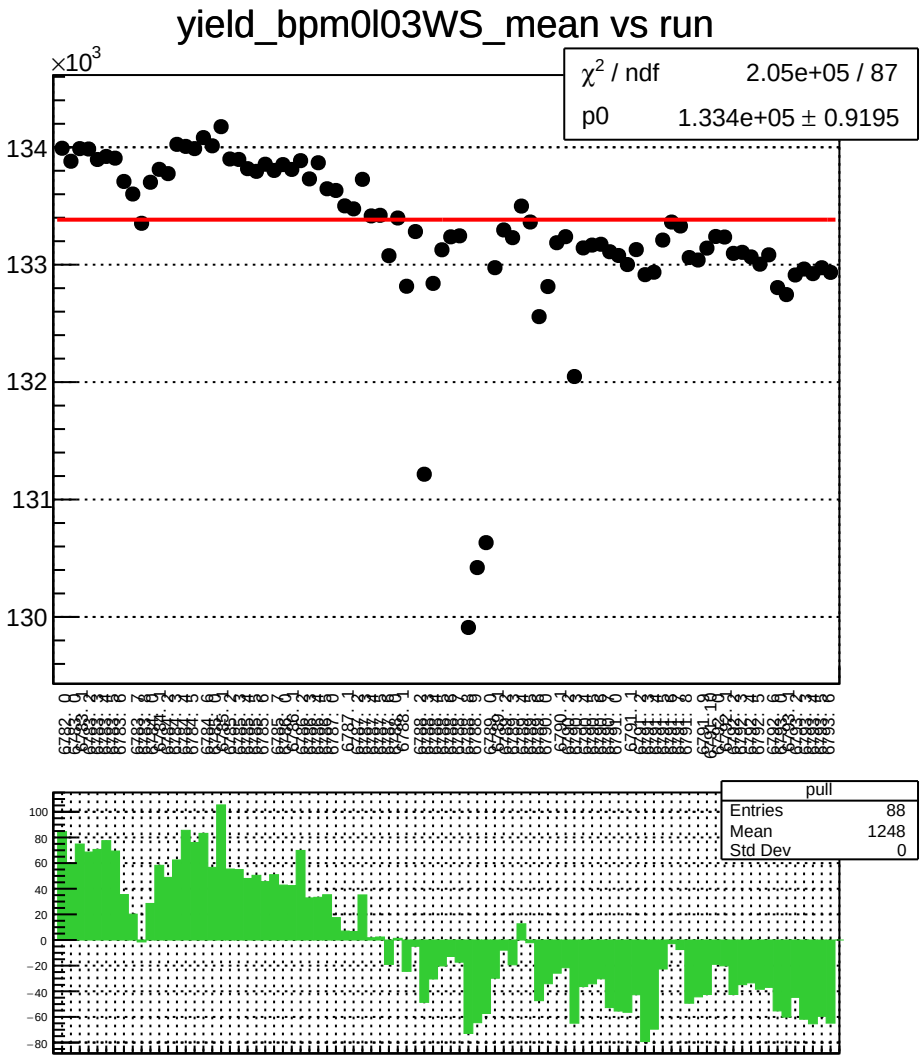

pull1D
Entries 88
Mean −4.565
Std Dev 2.708
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

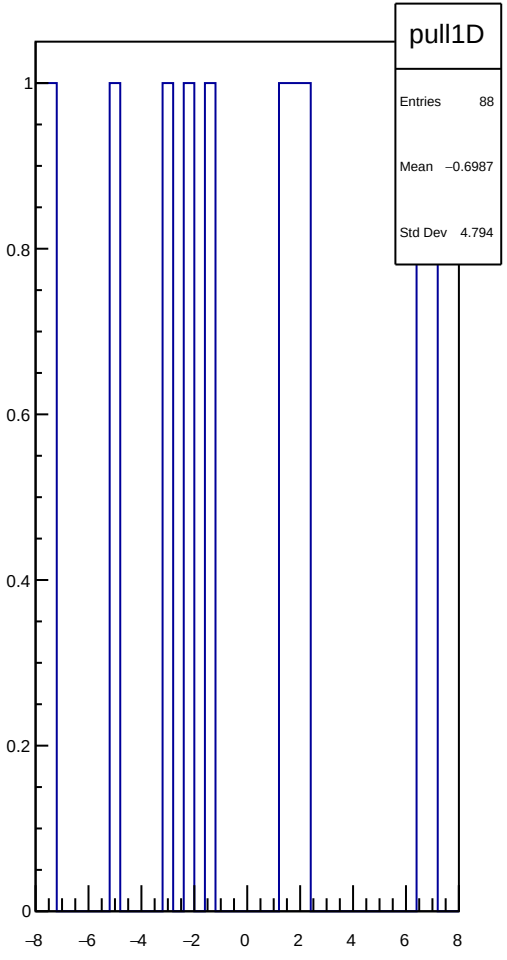

yield_bpm0l01WS_rms vs run
χ² / ndf 2.877e+04 / 87
p0 261.9 ± 0.2054
500
450
400
350
300
250
200

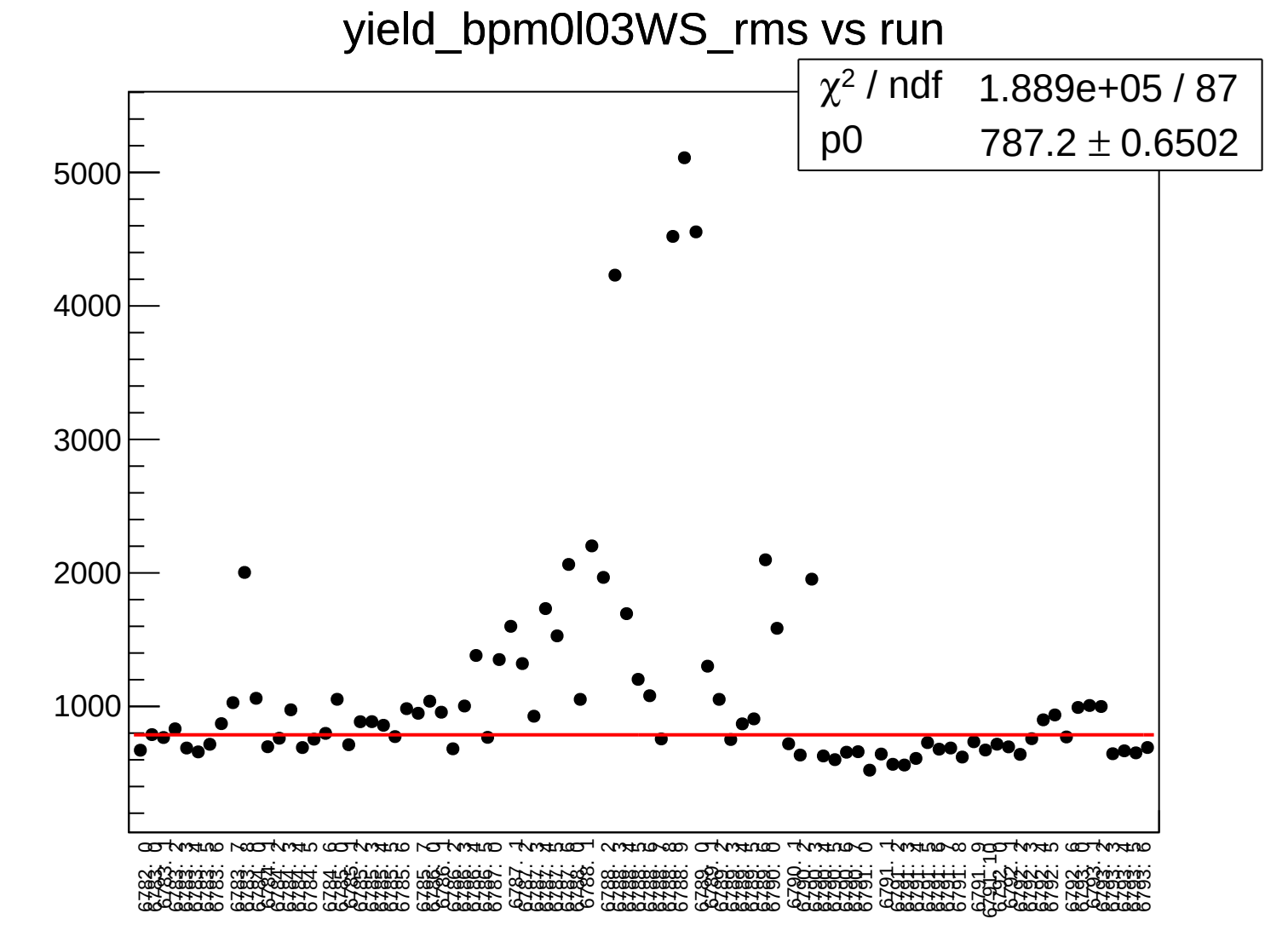

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 6.39e+06 / 87
p0 1.366e+05 ± 0.416
pull
Entries 88
Mean −774.6
Std Dev 0

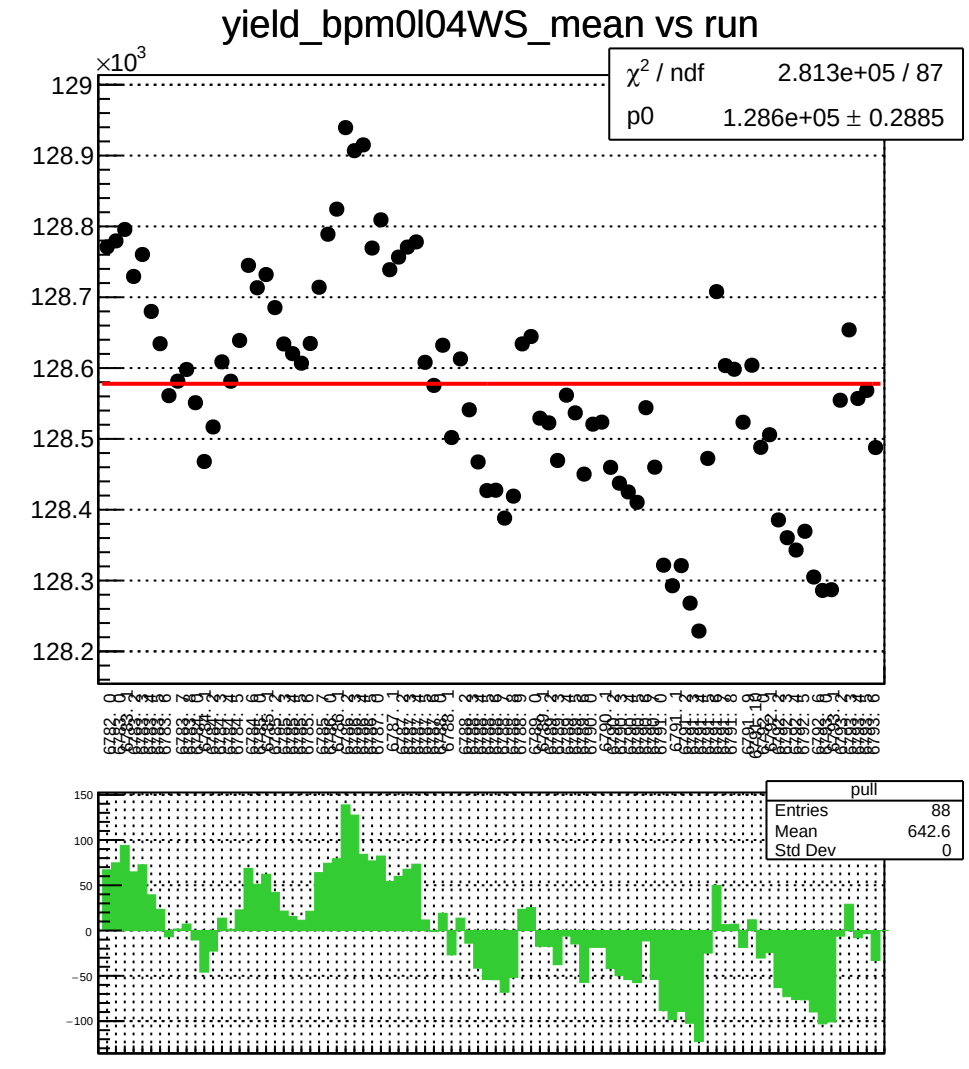

pull1D
Entries 88
Mean 1.512
Std Dev 4.031

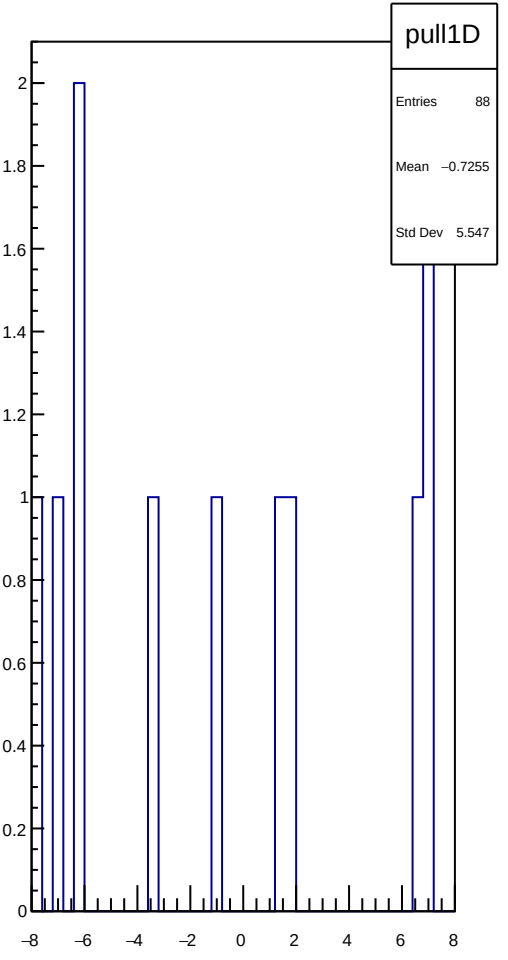

yield_bpm0l02WS_rms vs run
χ² / ndf 2.249e+04 / 87
p0 375.9 ± 0.2942
600
550
500
450
400
350
300

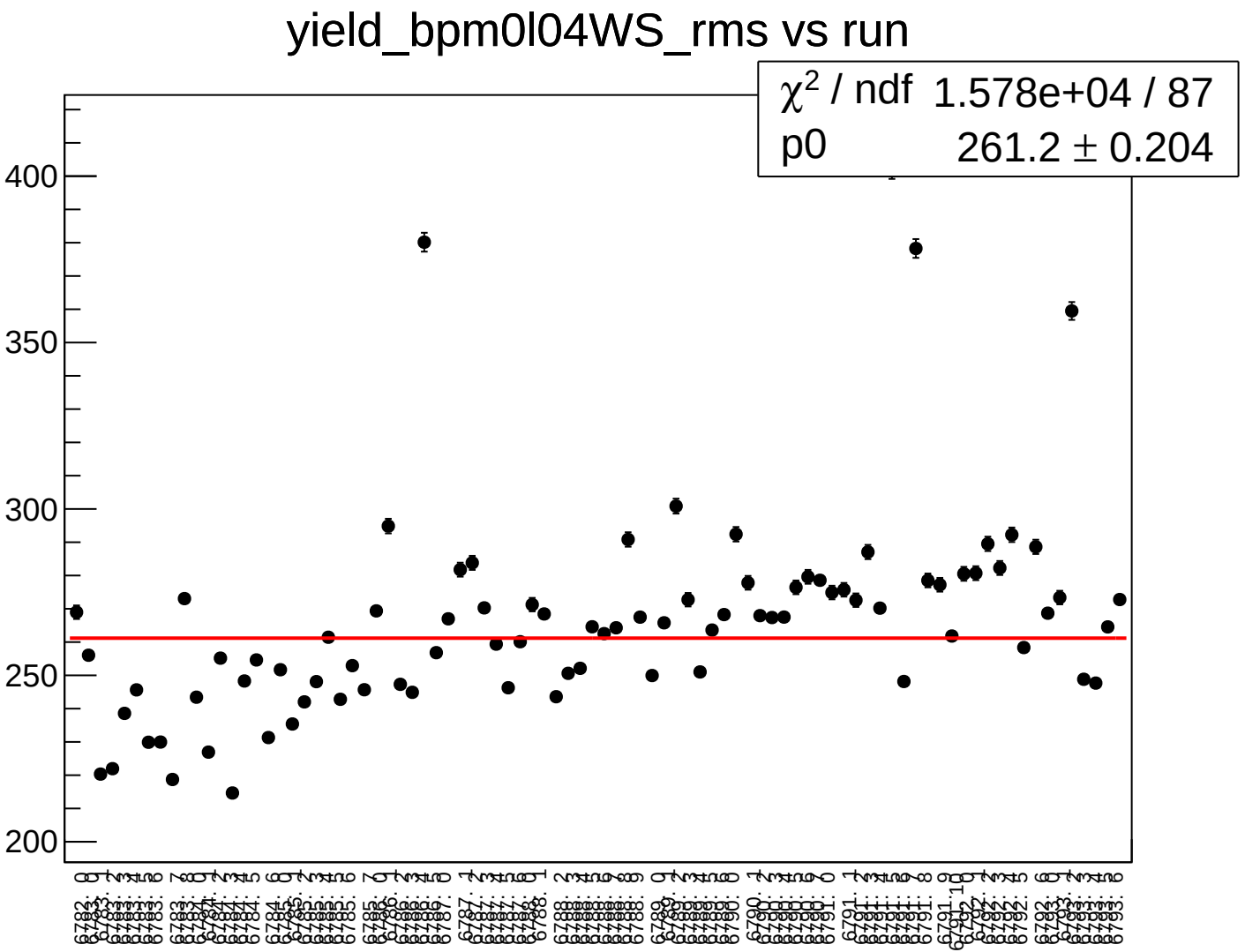

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.05e+05 / 87
p0 1.334e+05 ± 0.9195
134
133
132
131
130
pull
Entries 88
Mean 1248
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

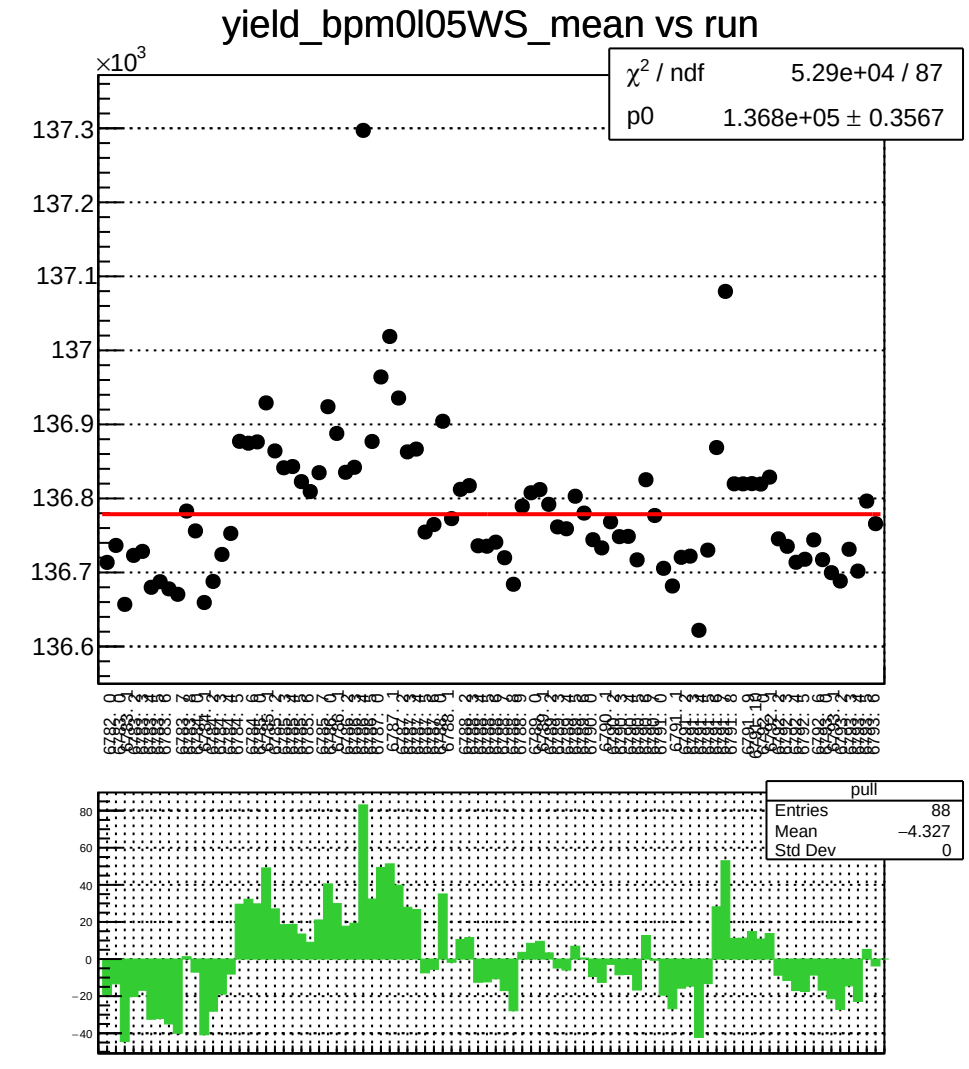

pull1D
Entries 88
Mean −0.6987
Std Dev 4.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

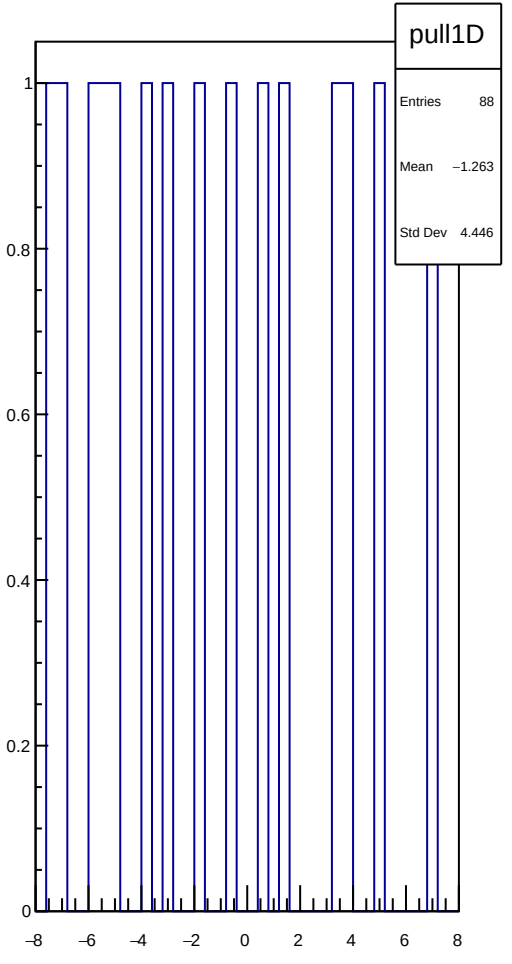

yield_bpm0l03WS_rms vs run
χ² / ndf 1.889e+05 / 87
p0 787.2 ± 0.6502
5000
4000
3000
2000
1000

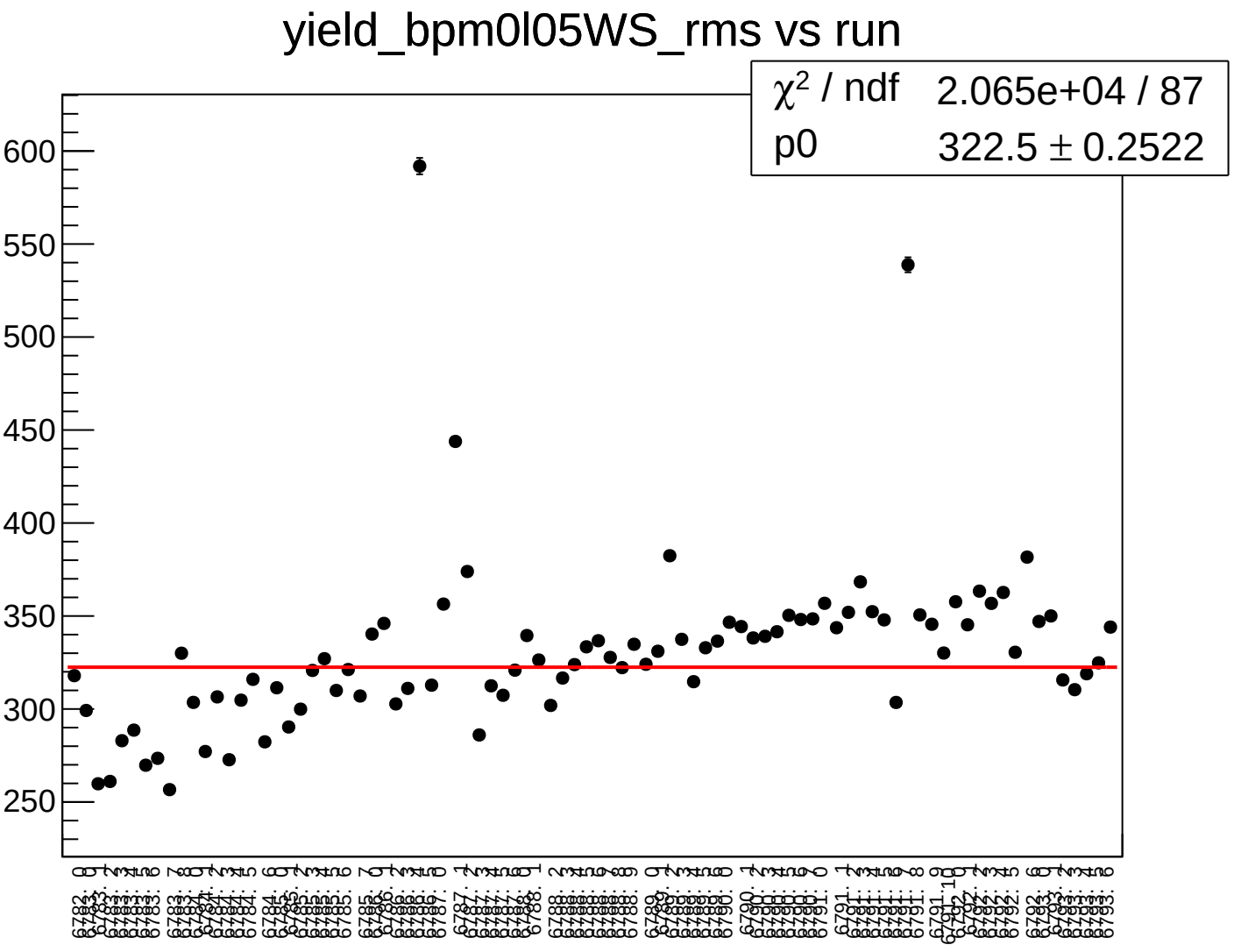

yield_bpm0l04WS_mean vs run
×10^3
129
128.9
128.8
128.7
128.6
128.5
128.4
128.3
128.2
χ² / ndf 2.813e+05 / 87
p0 1.286e+05 ± 0.2885
pull
Entries 88
Mean 642.6
Std Dev 0
150
100
50
0
−50
−100

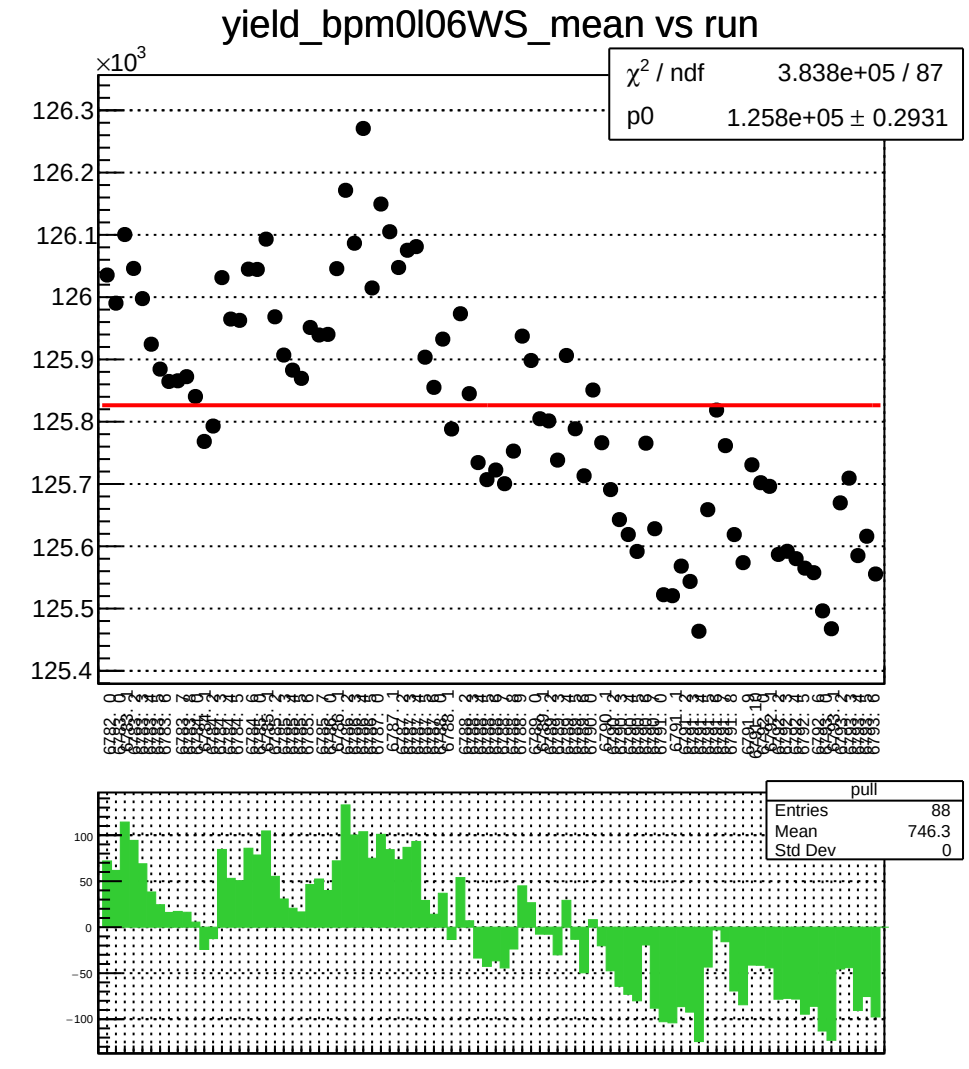

pull1D
Entries 88
Mean −0.7255
Std Dev 5.547
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

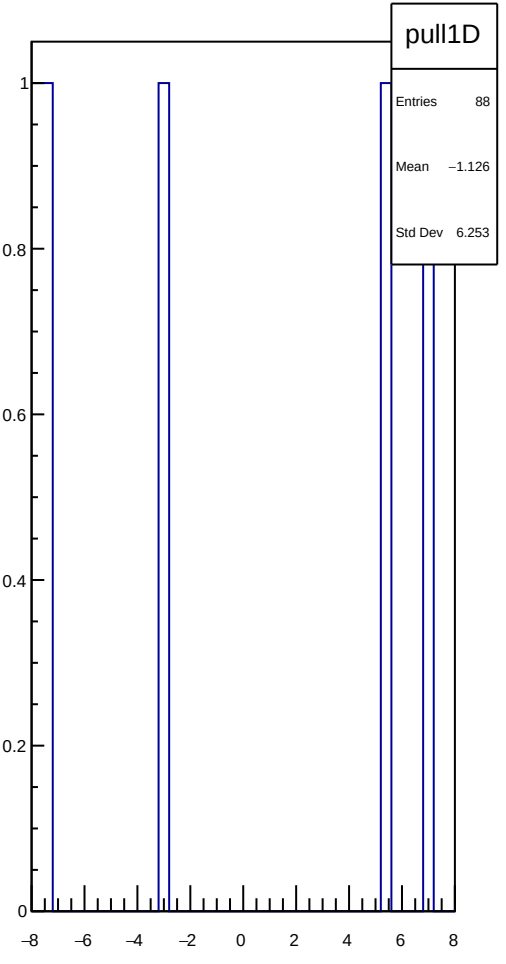

yield_bpm0l04WS_rms vs run
χ² / ndf 1.578e+04 / 87
p0 261.2 ± 0.204
400
350
300
250
200

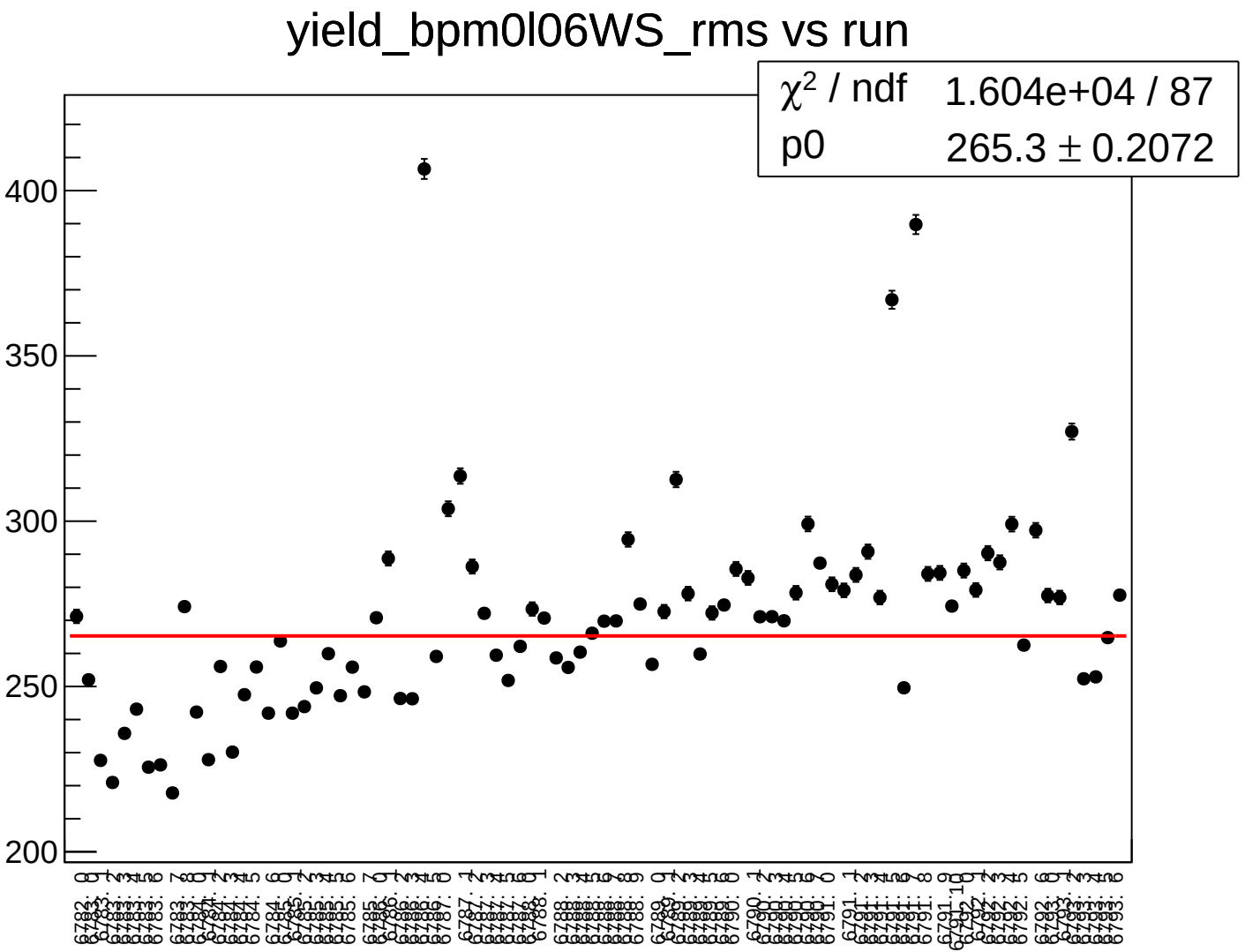

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 5.29e+04 / 87
p0 1.368e+05 ± 0.3567
137.3
137.2
137.1
137
136.9
136.8
136.7
136.6
pull
Entries 88
Mean −4.327
Std Dev 0
80
60
40
20
0
−20
−40

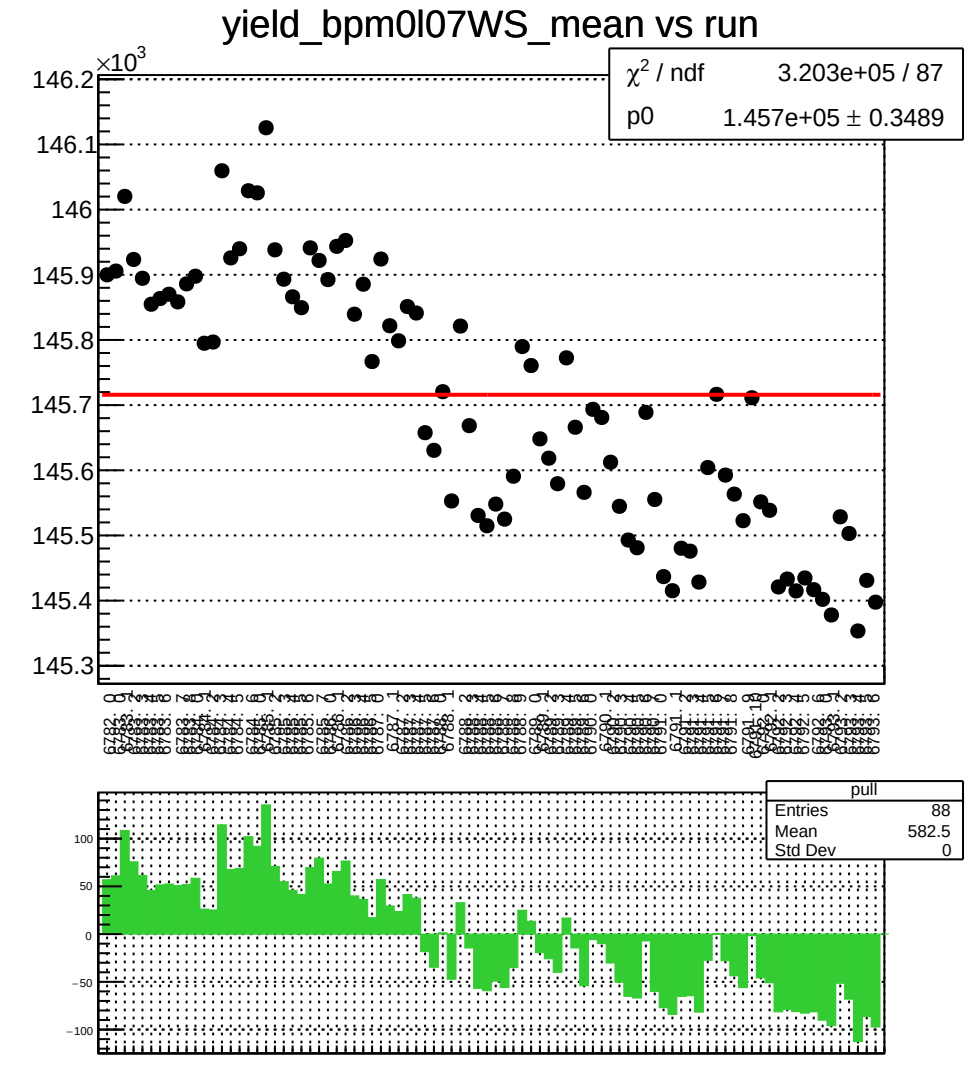

pull1D
Entries 88
Mean −1.263
Std Dev 4.446
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

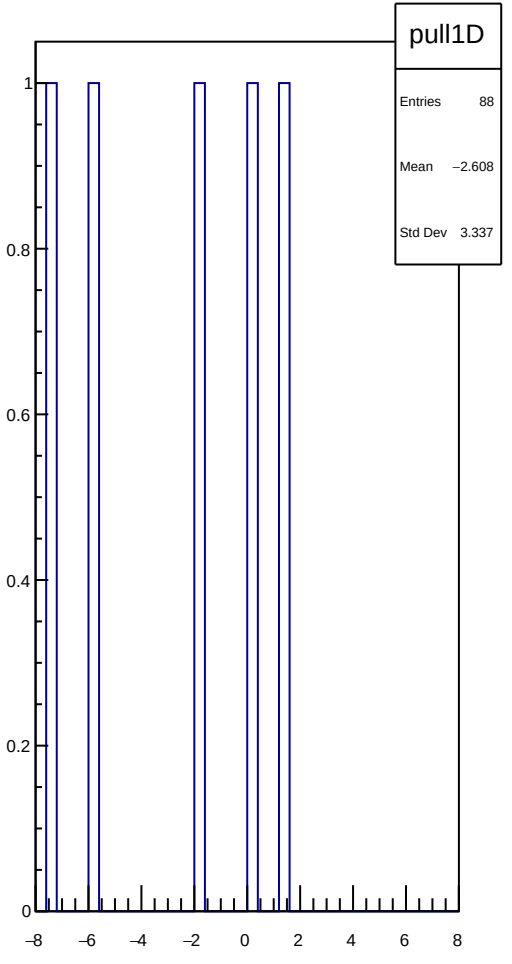

yield_bpm0l05WS_rms vs run
χ^2 / ndf 2.065e+04 / 87
p0 322.5 ± 0.2522
600
550
500
450
400
350
300
250

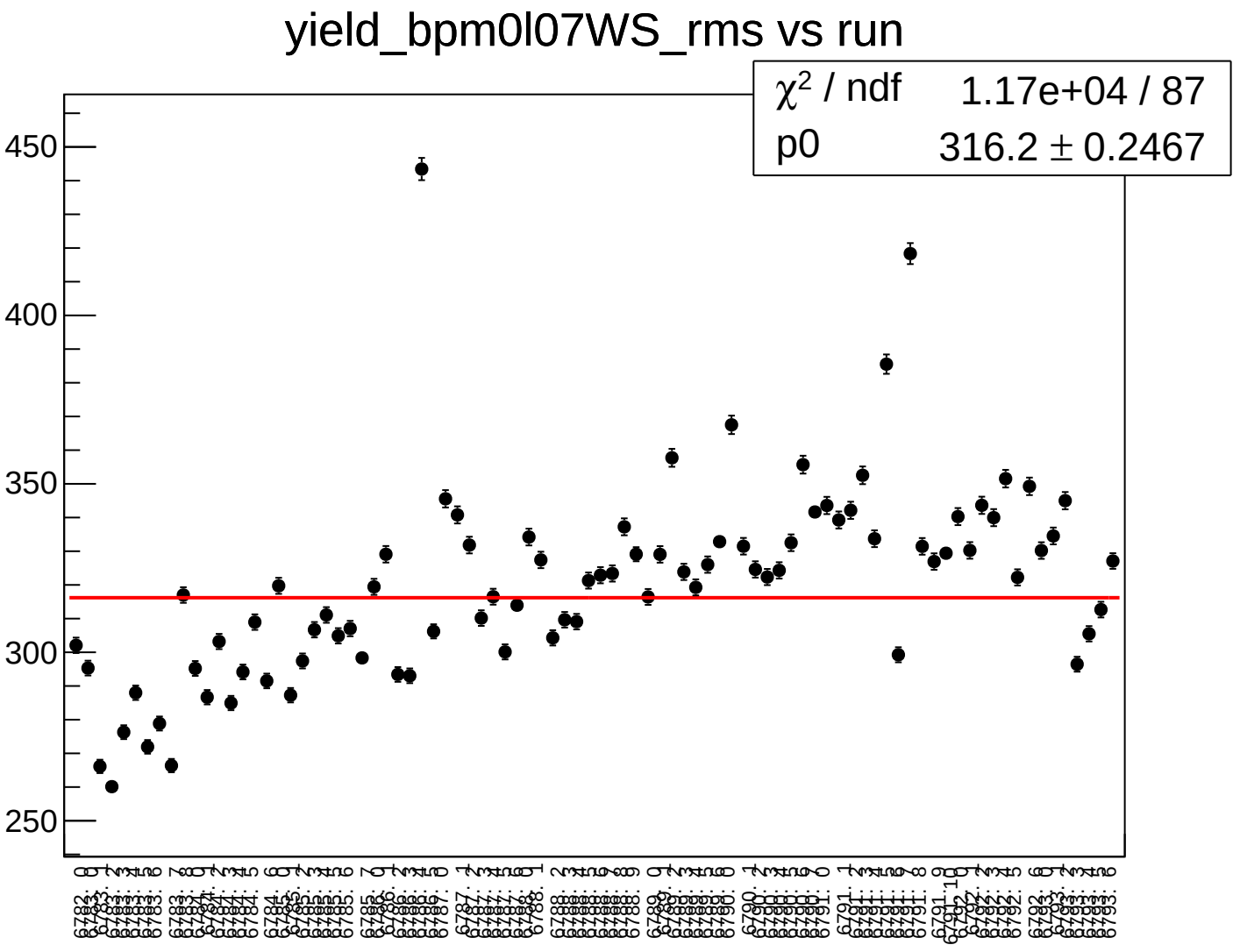

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.838e+05 / 87
p0 1.258e+05 ± 0.2931
126.3
126.2
126.1
126
125.9
125.8
125.7
125.6
125.5
125.4
pull
Entries 88
Mean 746.3
Std Dev 0
100
50
0
−50
−100

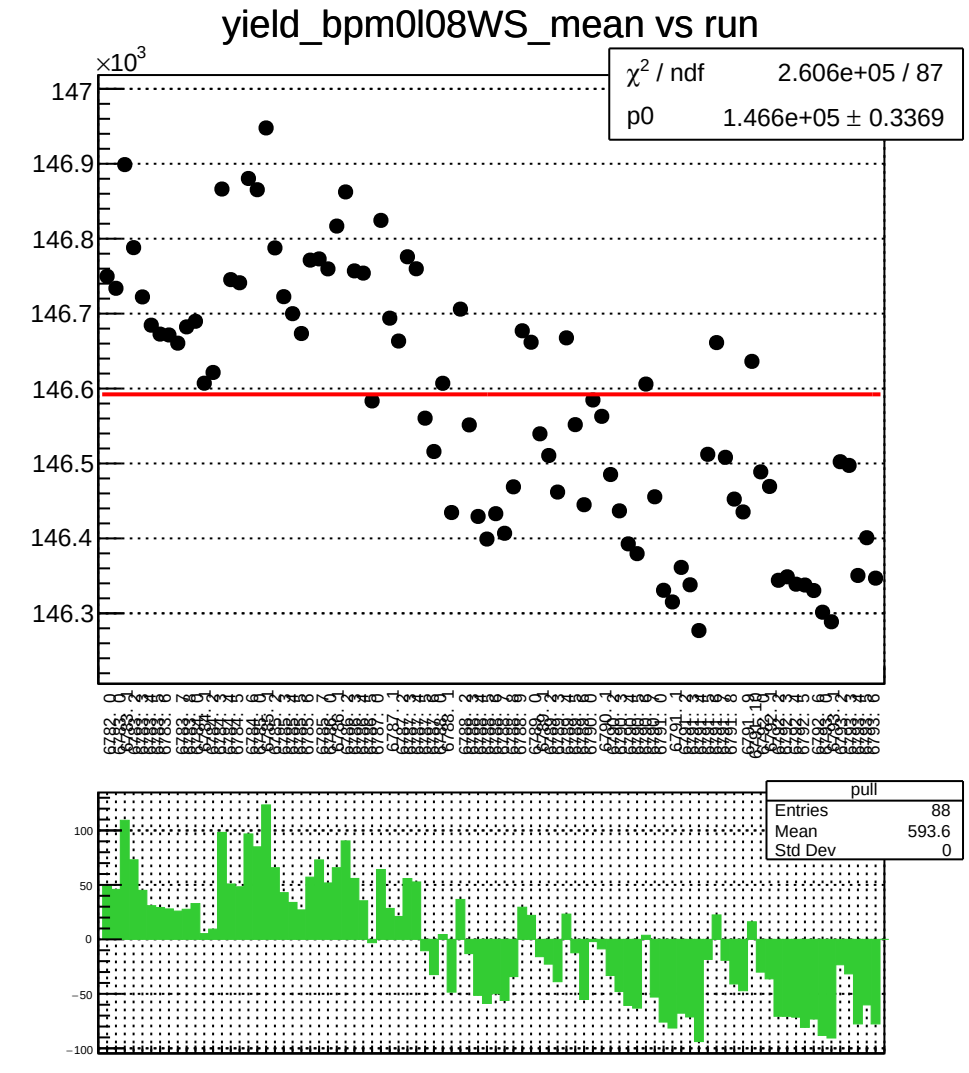

pull1D
Entries 88
Mean −1.126
Std Dev 6.253
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

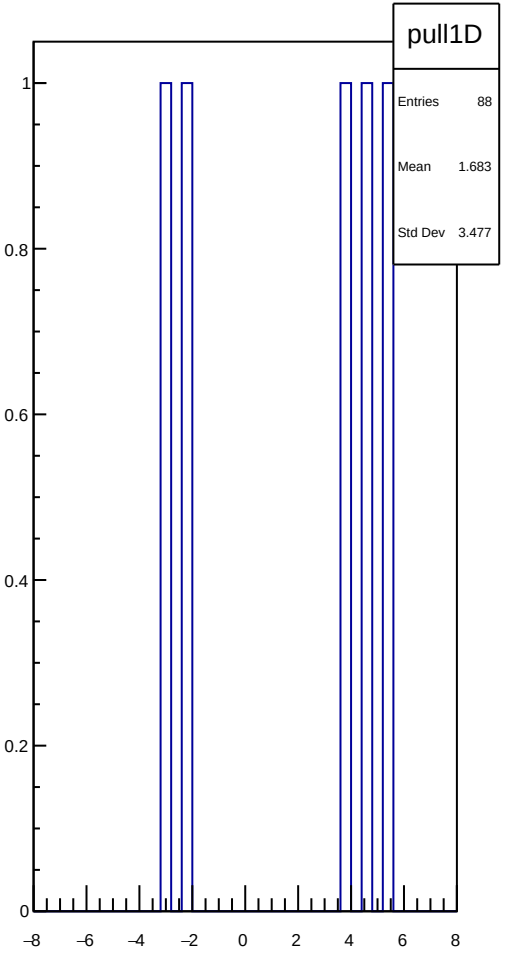

yield_bpm0l06WS_rms vs run
χ² / ndf 1.604e+04 / 87
p0 265.3 ± 0.2072
400
350
300
250
200

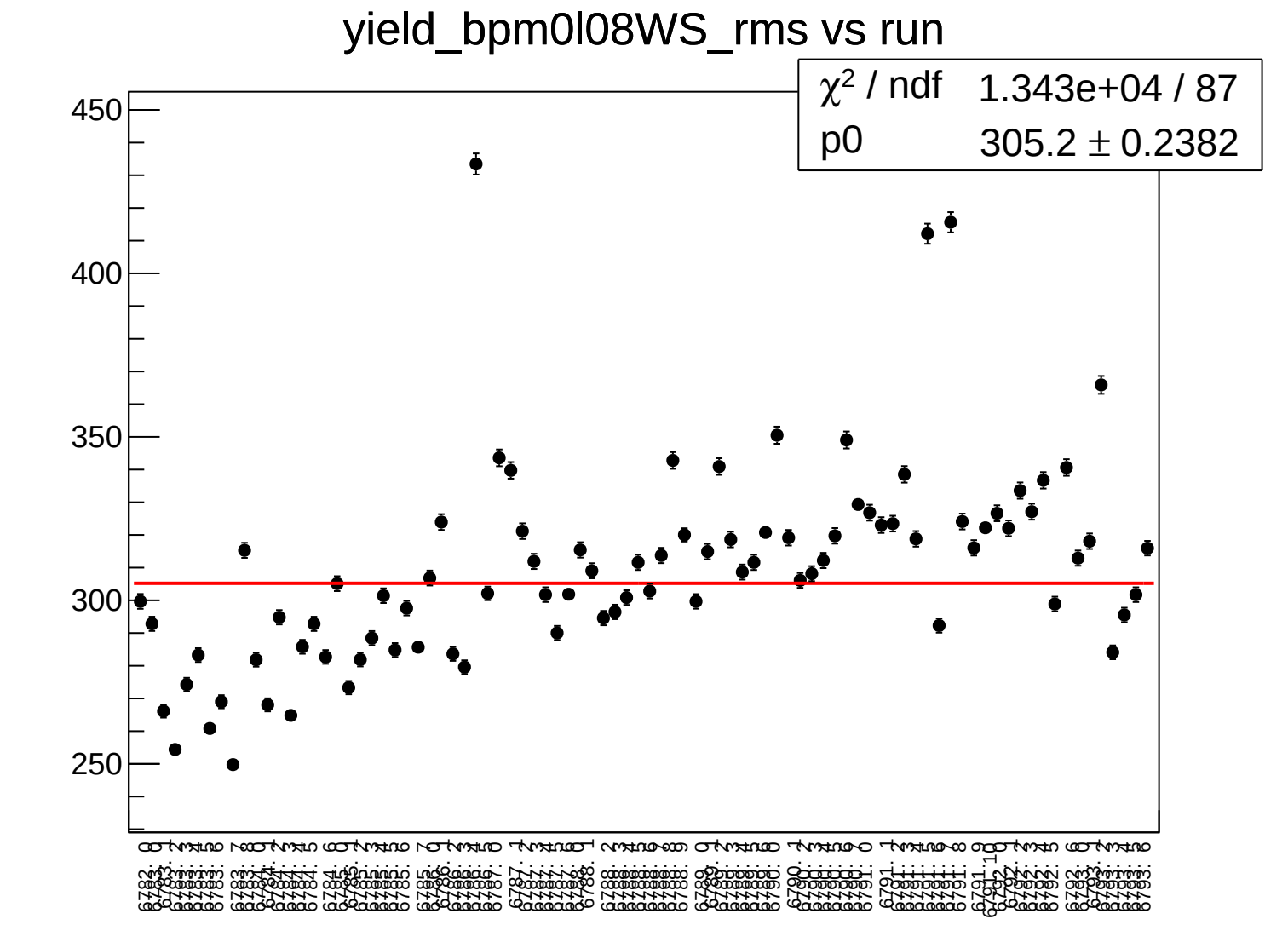

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.203e+05 / 87
p0 1.457e+05 ± 0.3489
146.2
146.1
146
145.9
145.8
145.7
145.6
145.5
145.4
145.3
pull
Entries 88
Mean 582.5
Std Dev 0
100
50
0
−50
−100

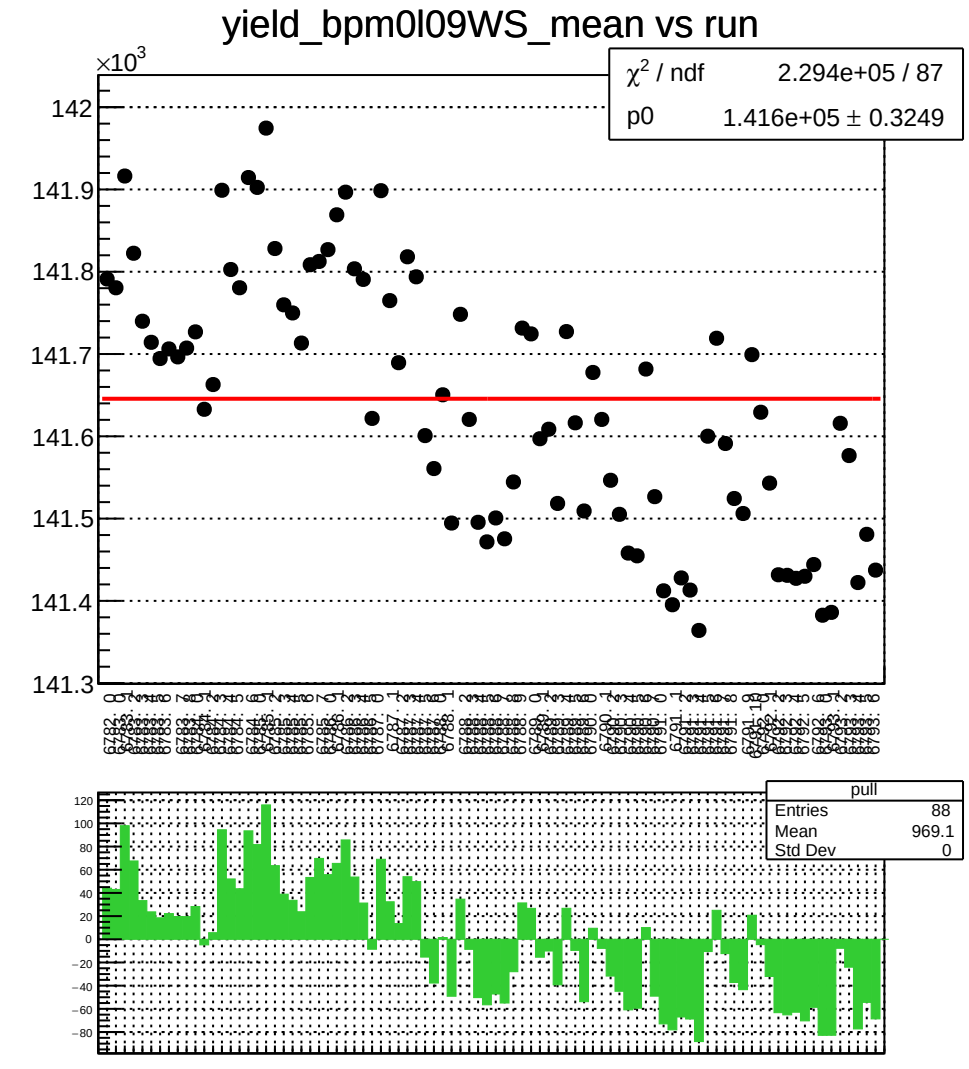

pull1D
Entries 88
Mean −2.608
Std Dev 3.337
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

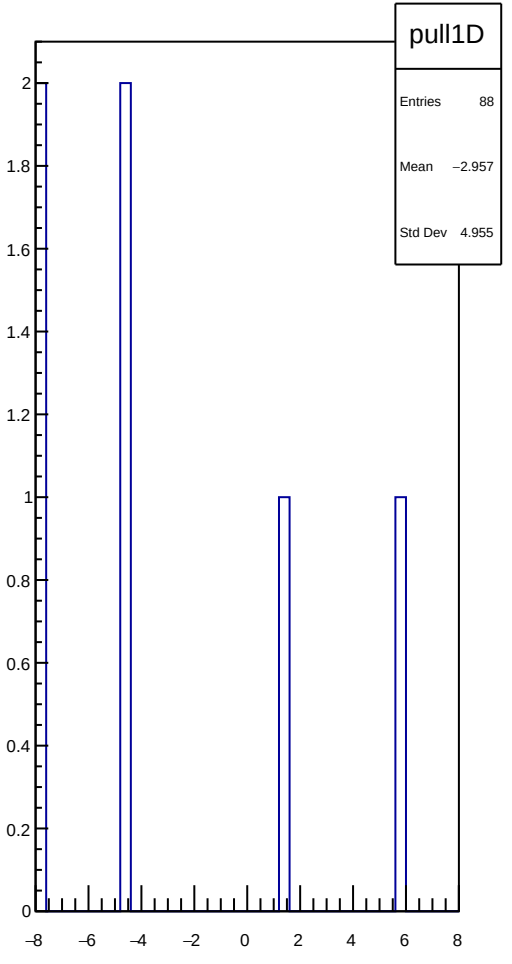

yield_bpm0l07WS_rms vs run
χ² / ndf 1.17e+04 / 87
p0 316.2 ± 0.2467
450
400
350
300
250

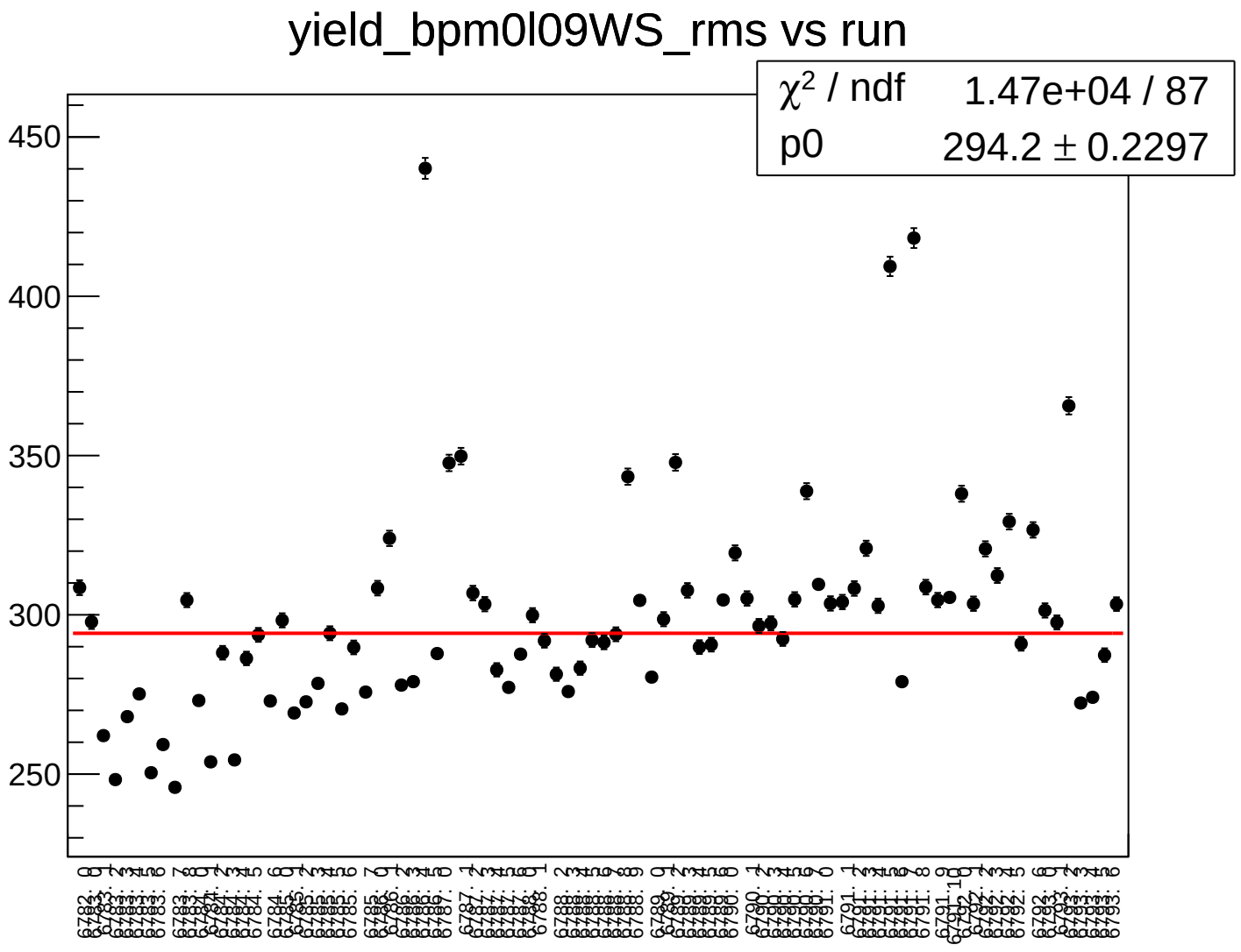

yield_bpm0l08WS_mean vs run
×10^3
147
146.9
146.8
146.7
146.6
146.5
146.4
146.3
χ² / ndf 2.606e+05 / 87
p0 1.466e+05 ± 0.3369
pull
Entries 88
Mean 593.6
Std Dev 0
100
50
0
−50
−100

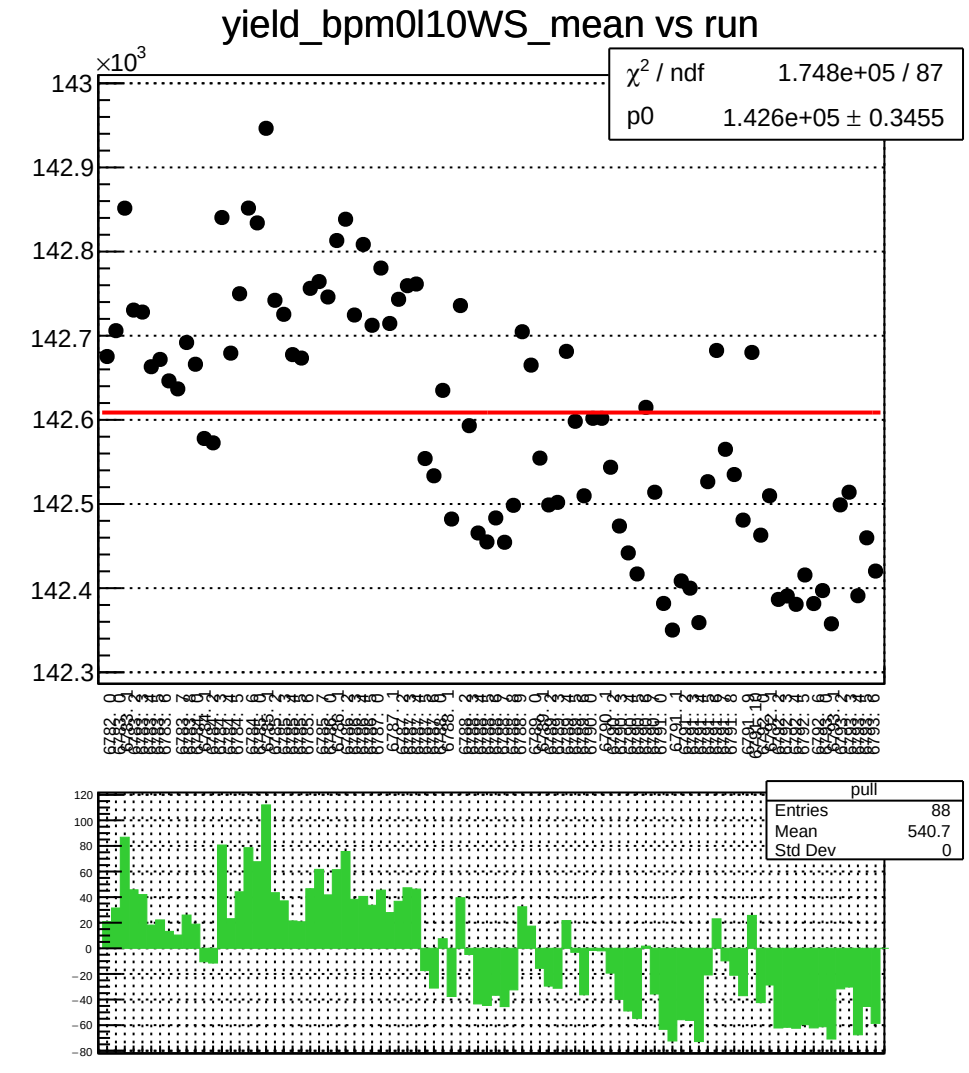

pull1D
Entries 88
Mean 1.683
Std Dev 3.477
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

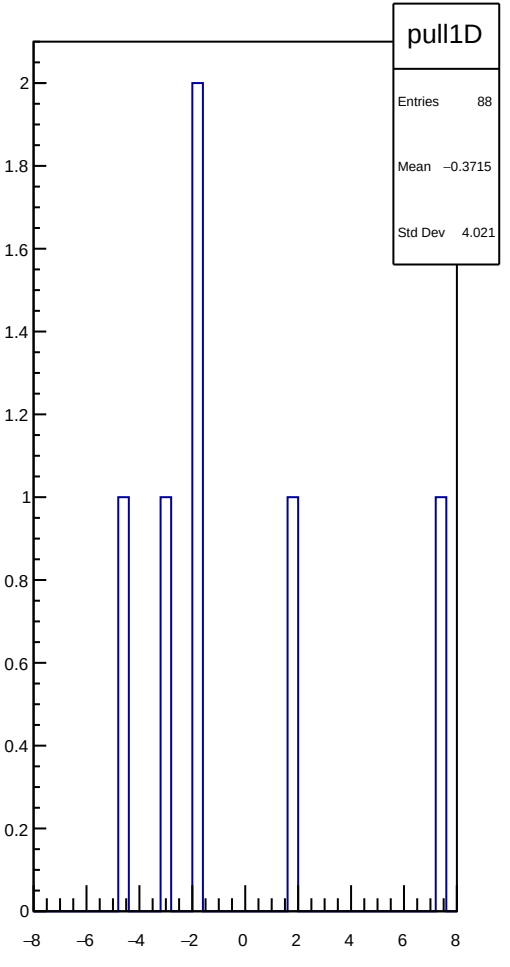

yield_bpm0l08WS_rms vs run
χ² / ndf 1.343e+04 / 87
p0 305.2 ± 0.2382
450
400
350
300
250

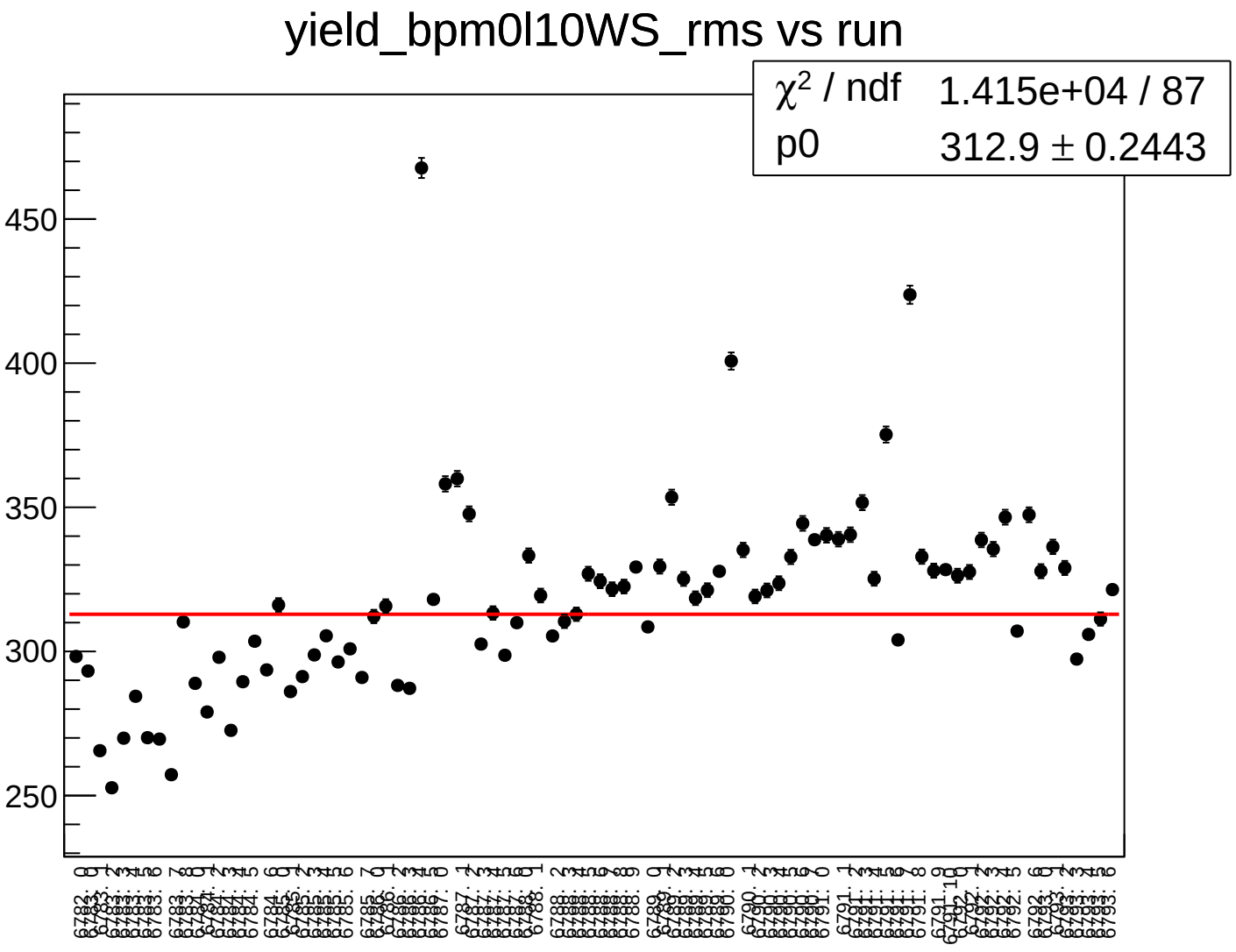

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.294e+05 / 87
p0 1.416e+05 ± 0.3249
142
141.9
141.8
141.7
141.6
141.5
141.4
141.3
pull
Entries 88
Mean 969.1
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

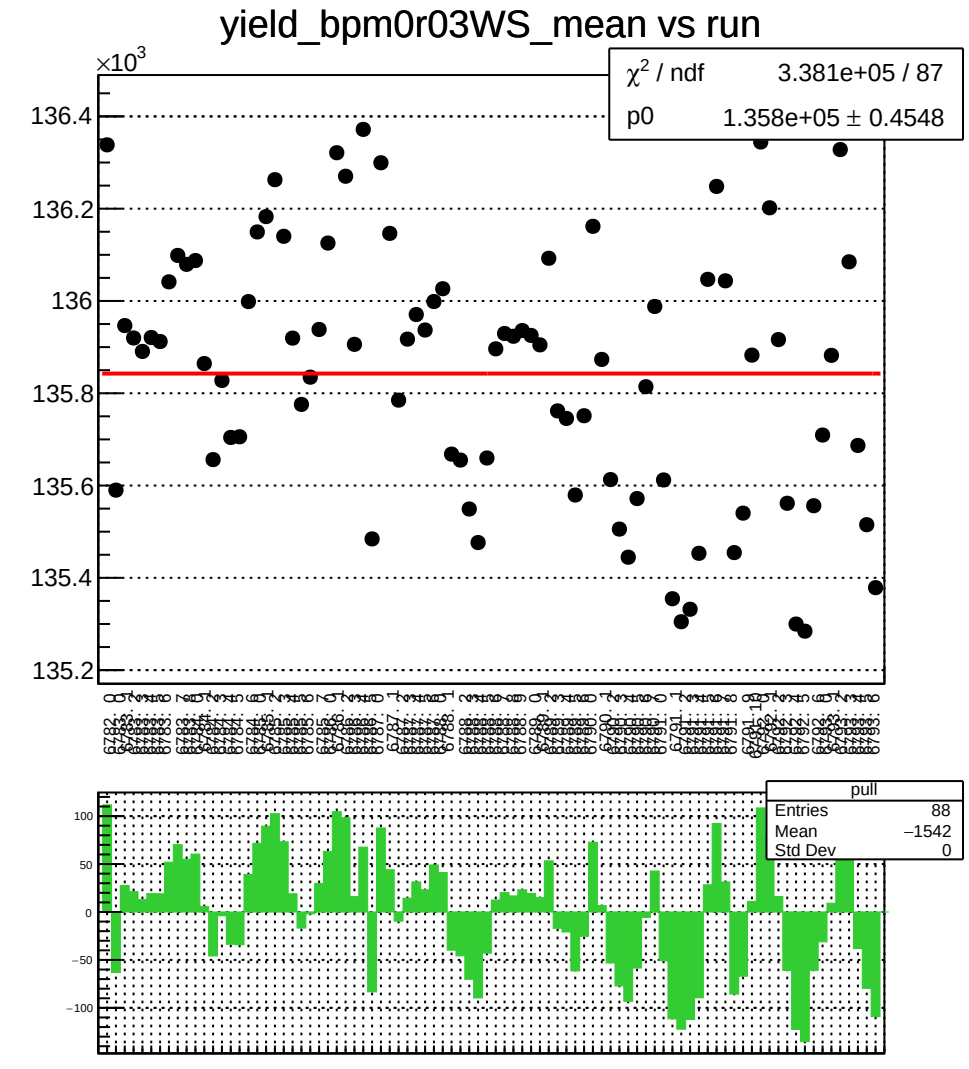

pull1D
Entries 88
Mean −2.957
Std Dev 4.955
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

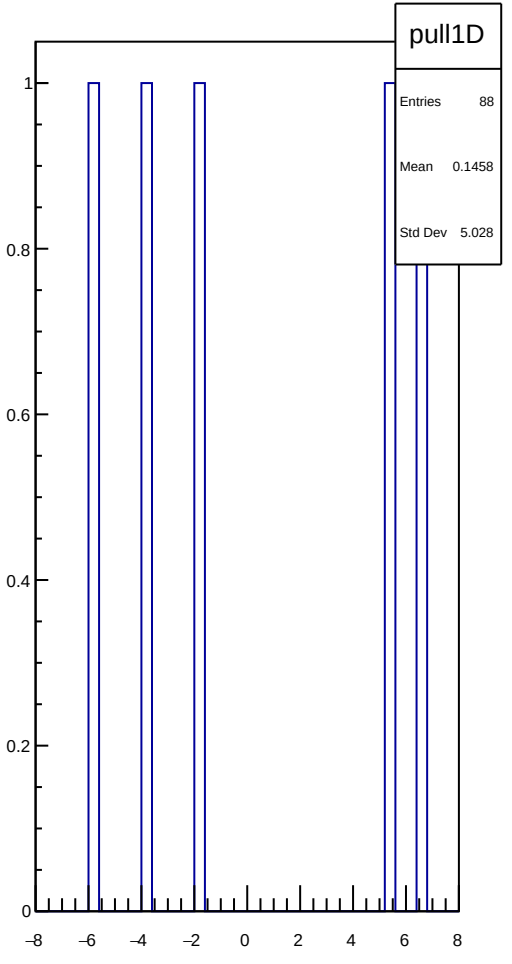

yield_bpm0l09WS_rms vs run
χ² / ndf 1.47e+04 / 87
p0 294.2 ± 0.2297
450
400
350
300
250

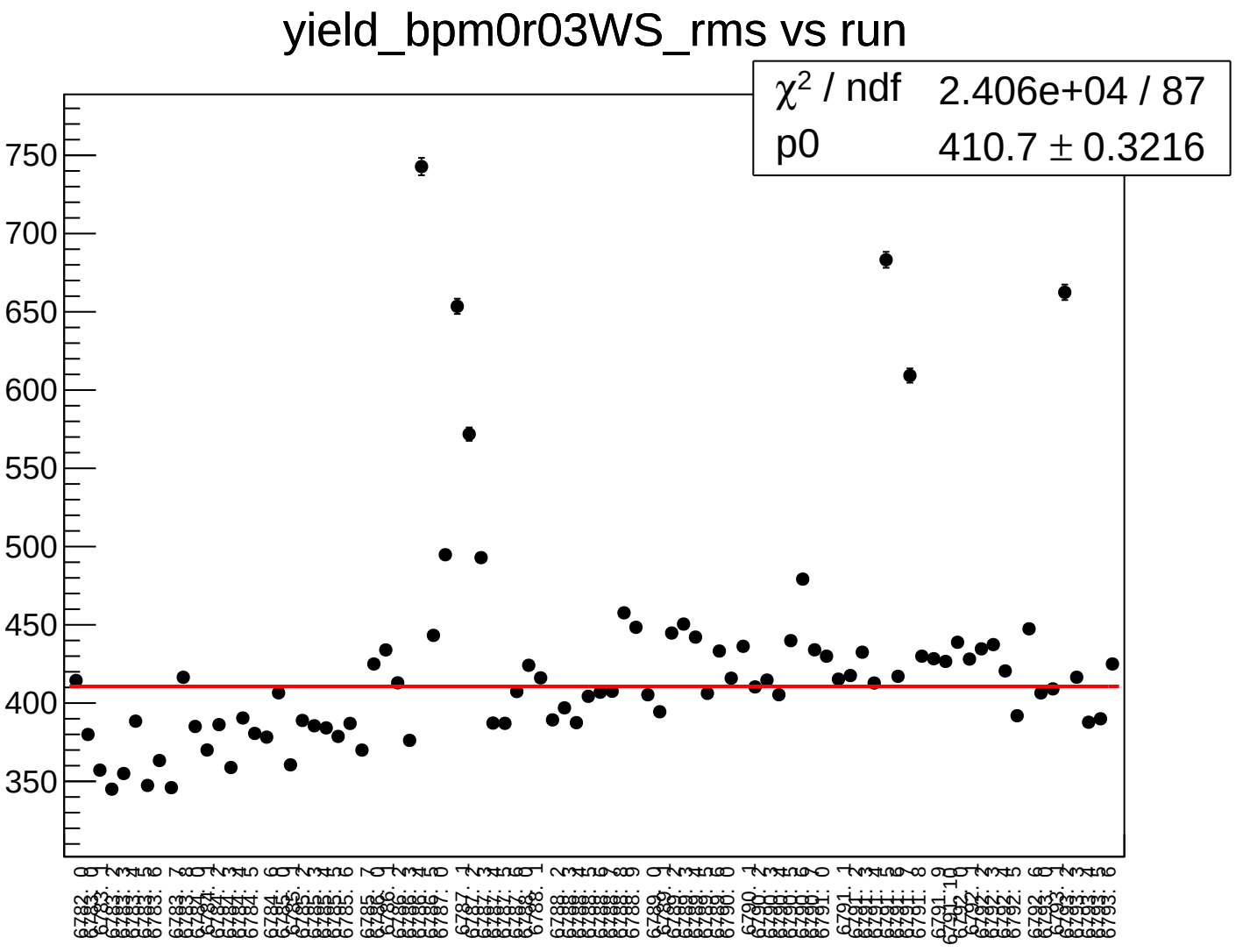

yield_bpm0l10WS_mean vs run
×10^3
143
142.9
142.8
142.7
142.6
142.5
142.4
142.3
χ² / ndf 1.748e+05 / 87
p0 1.426e+05 ± 0.3455
pull
Entries 88
Mean 540.7
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

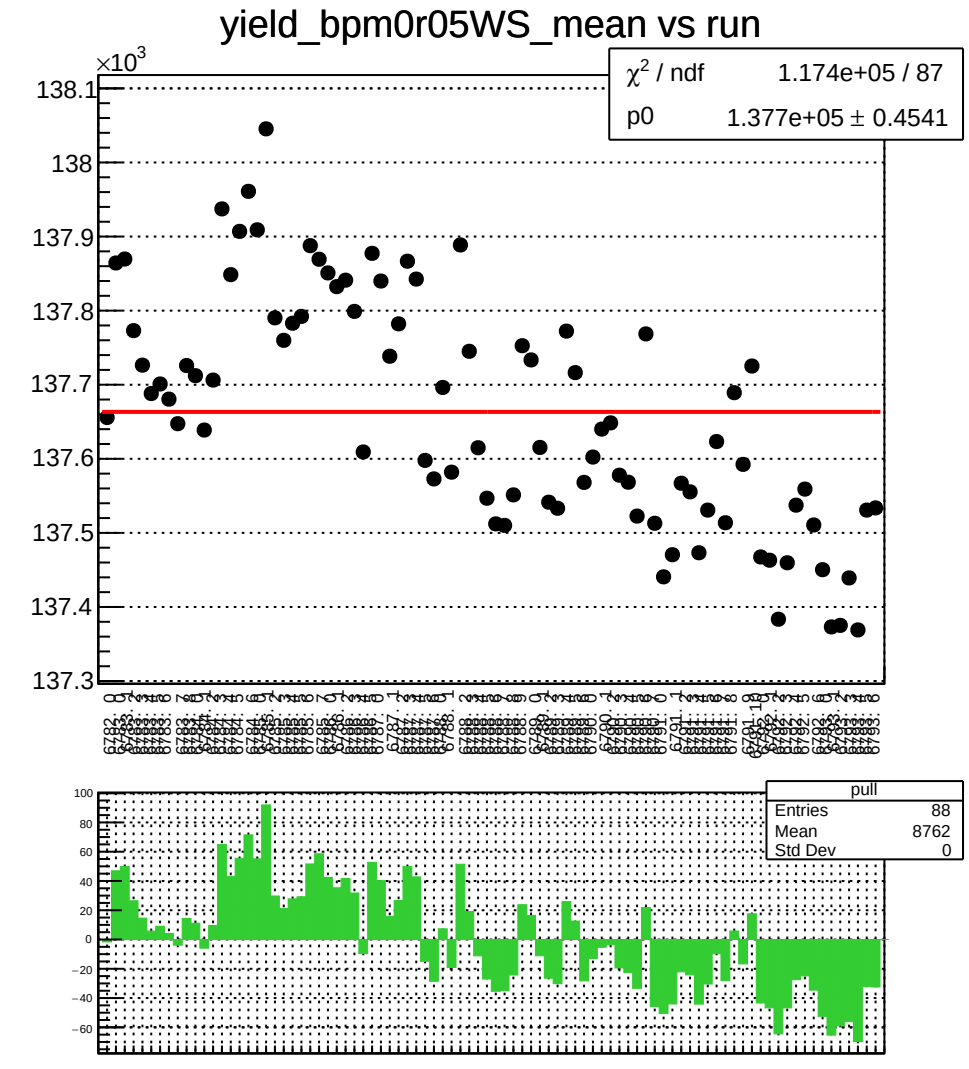

pull1D
Entries 88
Mean −0.3715
Std Dev 4.021
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

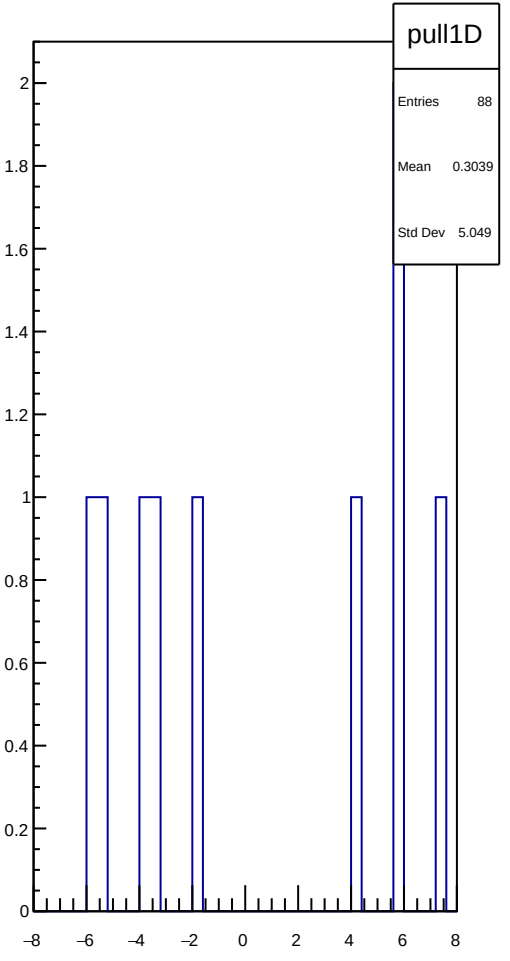

yield_bpm0l10WS_rms vs run
χ² / ndf 1.415e+04 / 87
p0 312.9 ± 0.2443
450
400
350
300
250

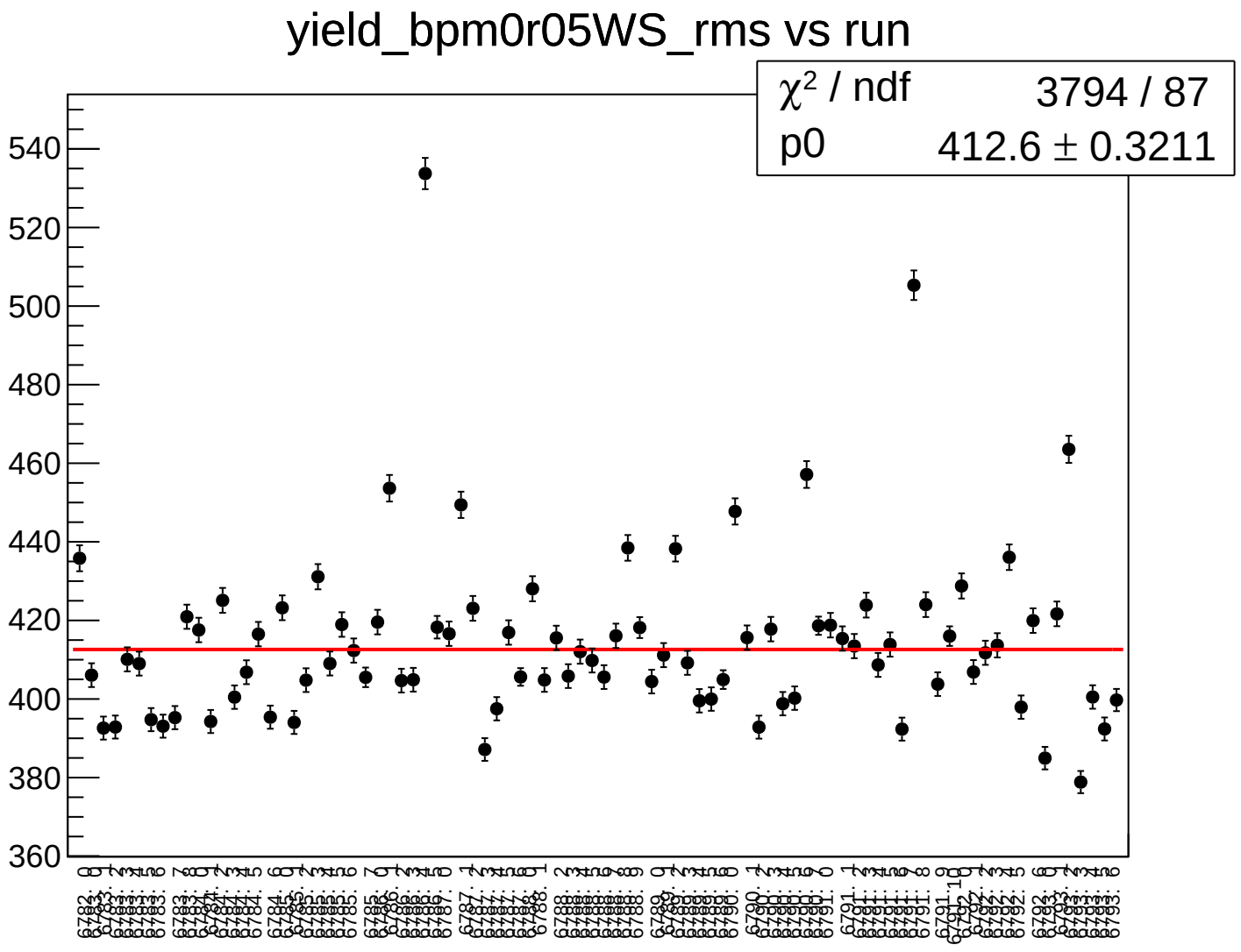

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.381e+05 / 87
p0 1.358e+05 ± 0.4548
136.4
136.2
136
135.8
135.6
135.4
135.2
pull
Entries 88
Mean −1542
Std Dev 0
100
50
0
−50
−100

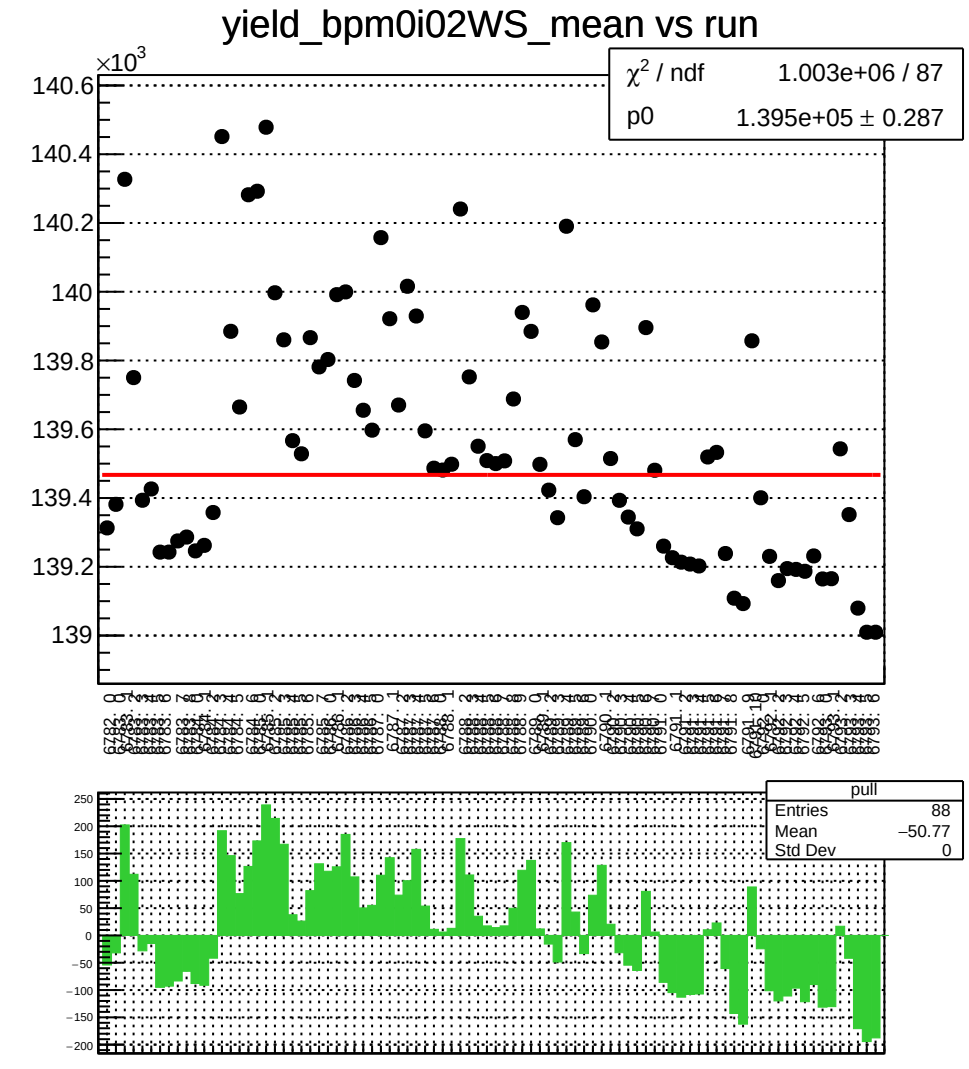

pull1D
Entries 88
Mean 0.1458
Std Dev 5.028
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

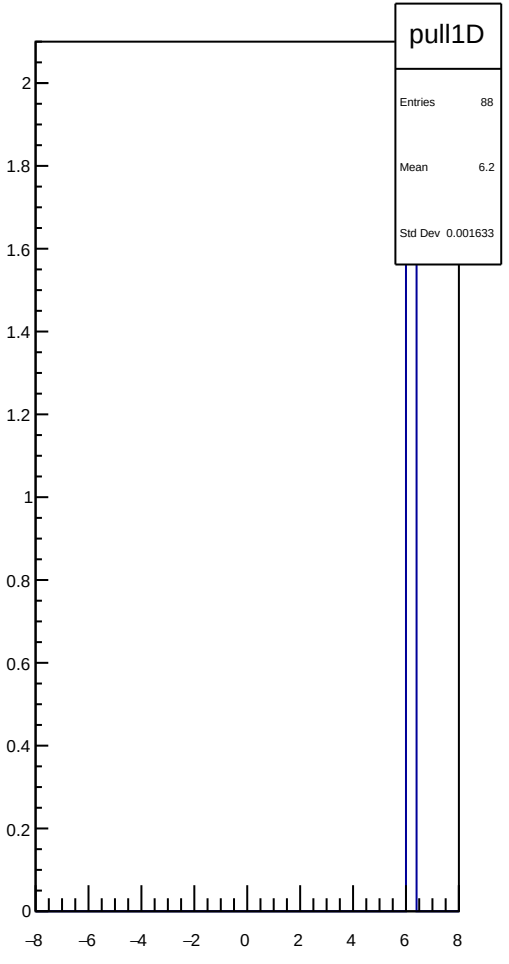

yield_bpm0r03WS_rms vs run
χ² / ndf 2.406e+04 / 87
p0 410.7 ± 0.3216
750
700
650
600
550
500
450
400
350

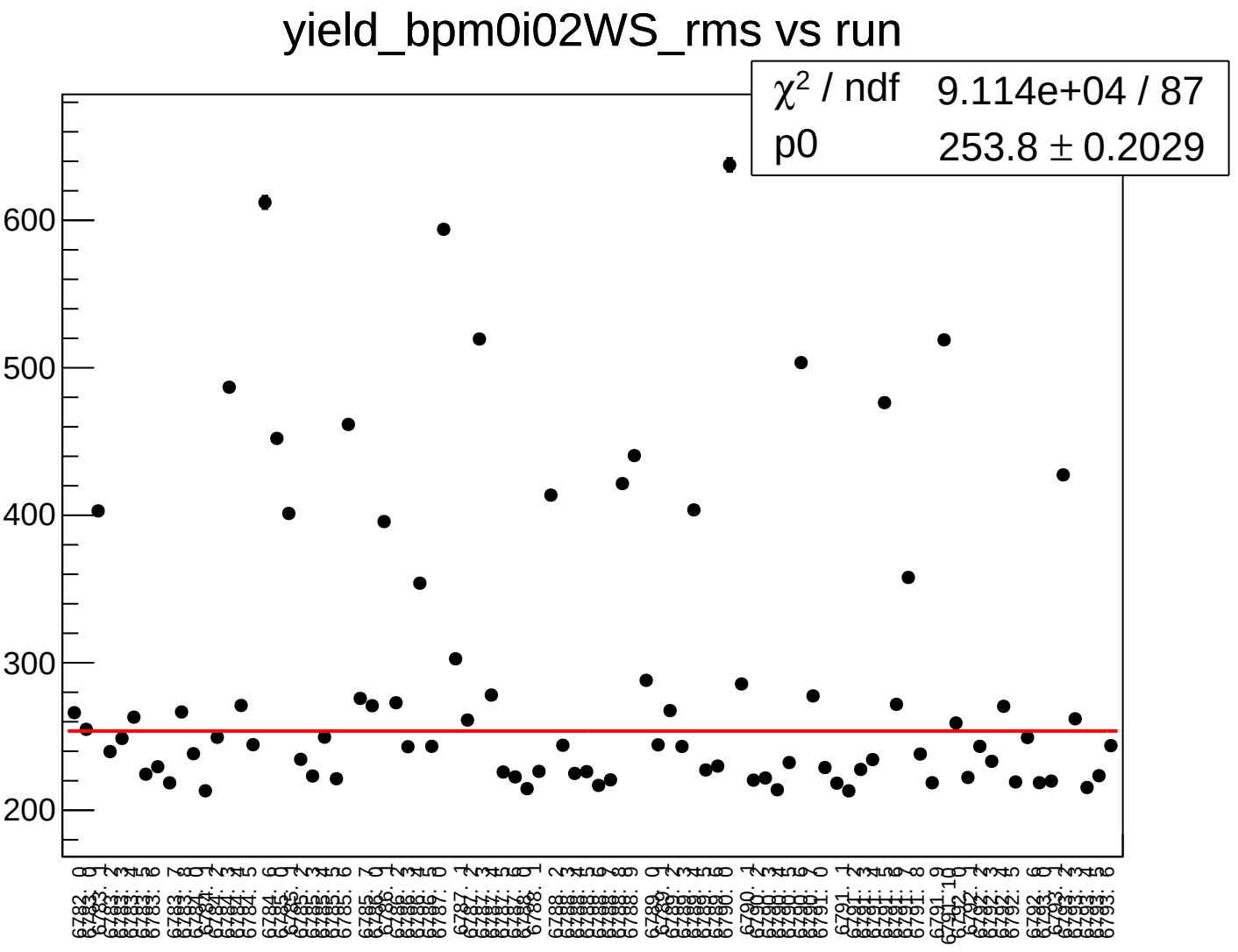

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.174e+05 / 87
p0 1.377e+05 ± 0.4541
138.1
138
137.9
137.8
137.7
137.6
137.5
137.4
137.3
pull
Entries 88
Mean 8762
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

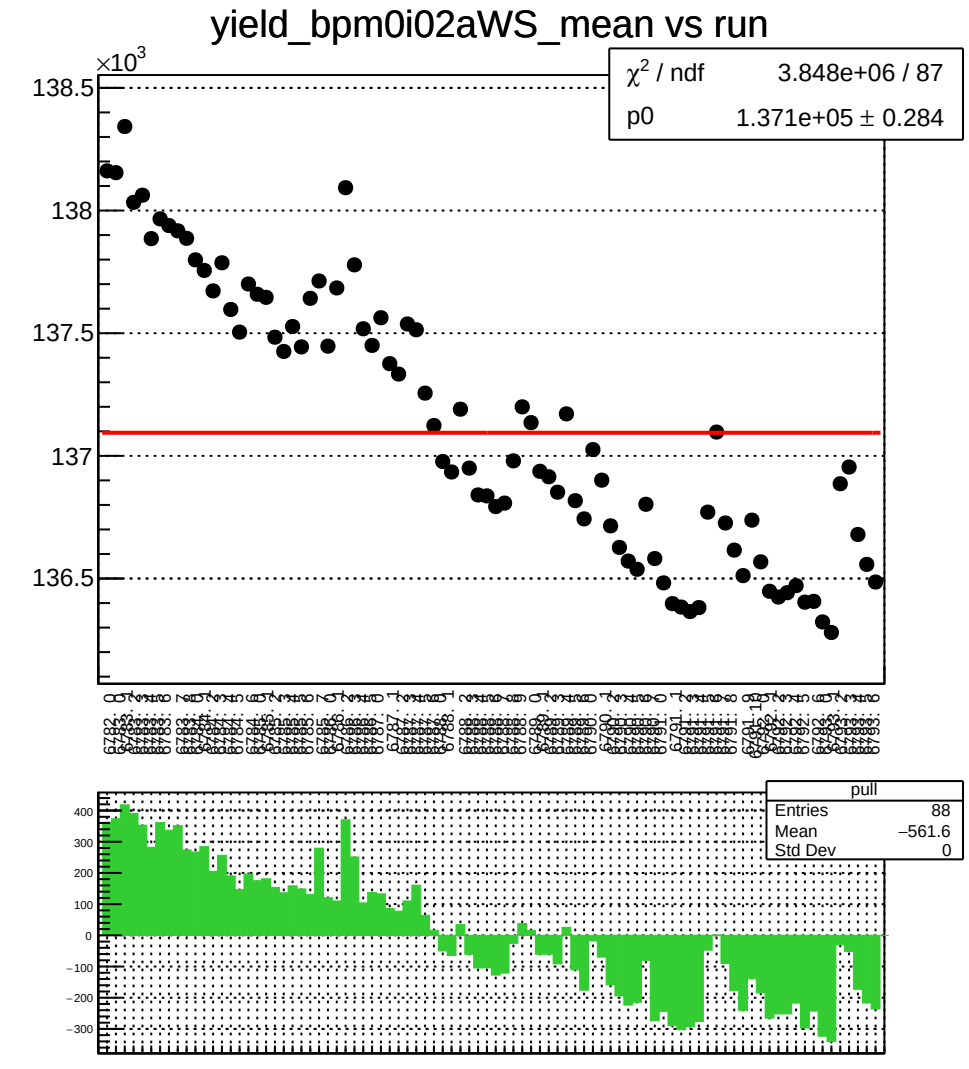

pull1D
Entries 88
Mean 0.3039
Std Dev 5.049
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

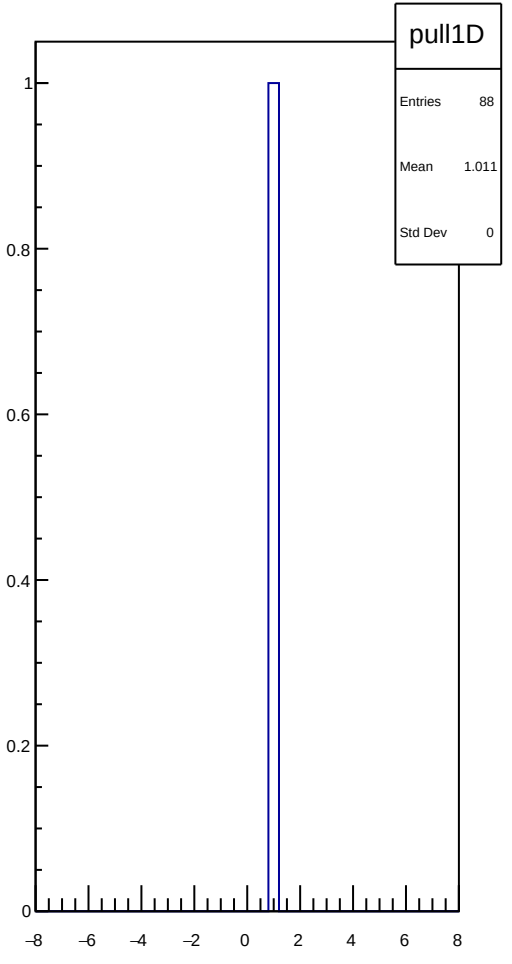

yield_bpm0r05WS_rms vs run
χ² / ndf 3794 / 87
p0 412.6 ± 0.3211
540
520
500
480
460
440
420
400
380
360

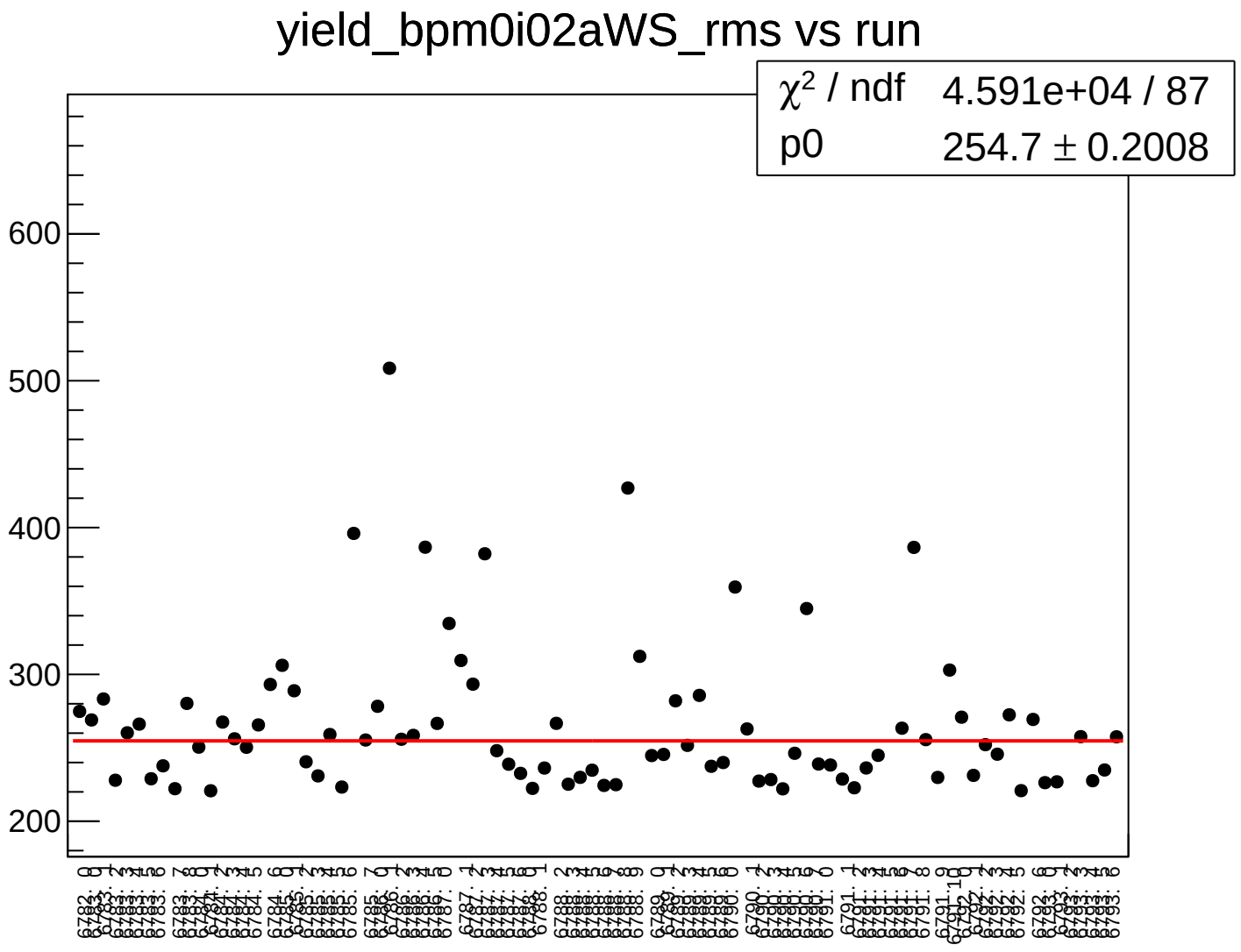

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.003e+06 / 87
p0 1.395e+05 ± 0.287
140.6
140.4
140.2
140
139.8
139.6
139.4
139.2
139
pull
Entries 88
Mean –50.77
Std Dev 0
250
200
150
100
50
0
–50
–100
–150
–200

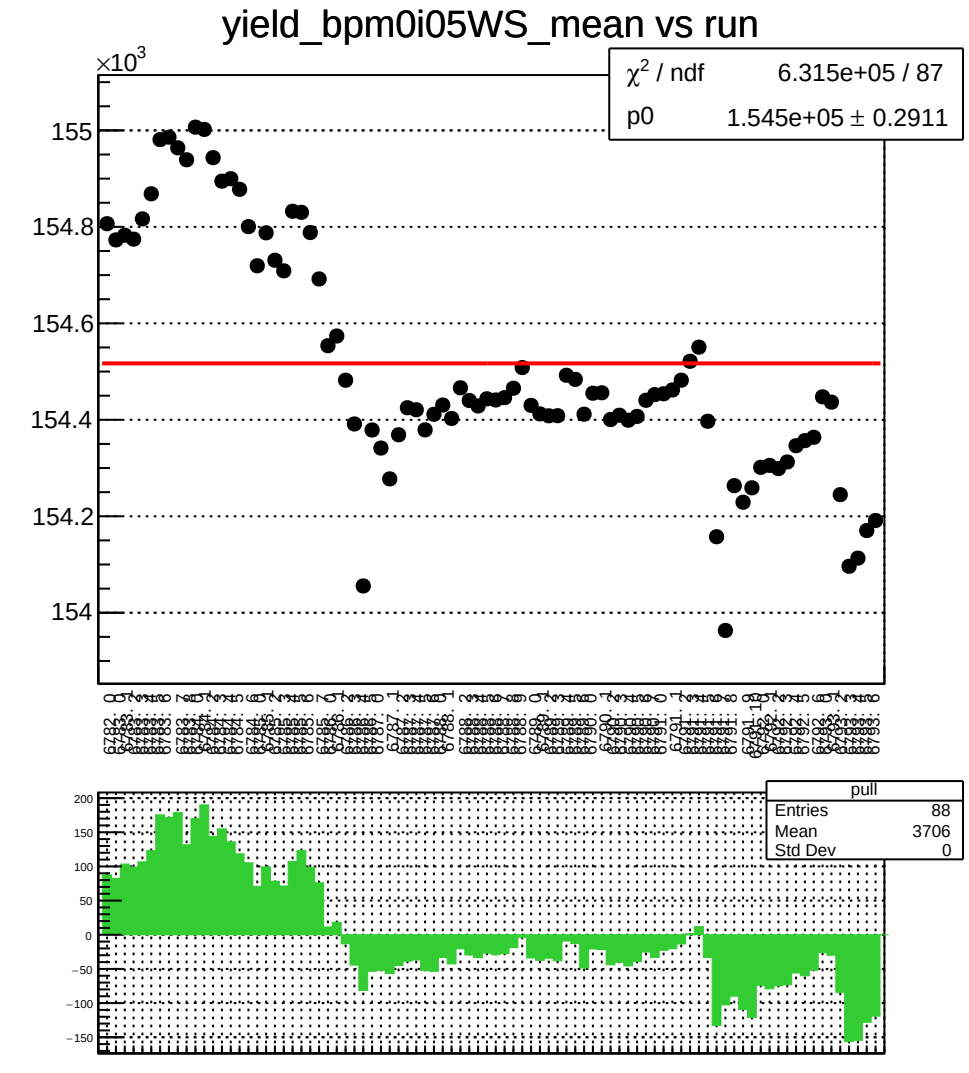

pull1D
Entries 88
Mean 6.2
Std Dev 0.001633
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

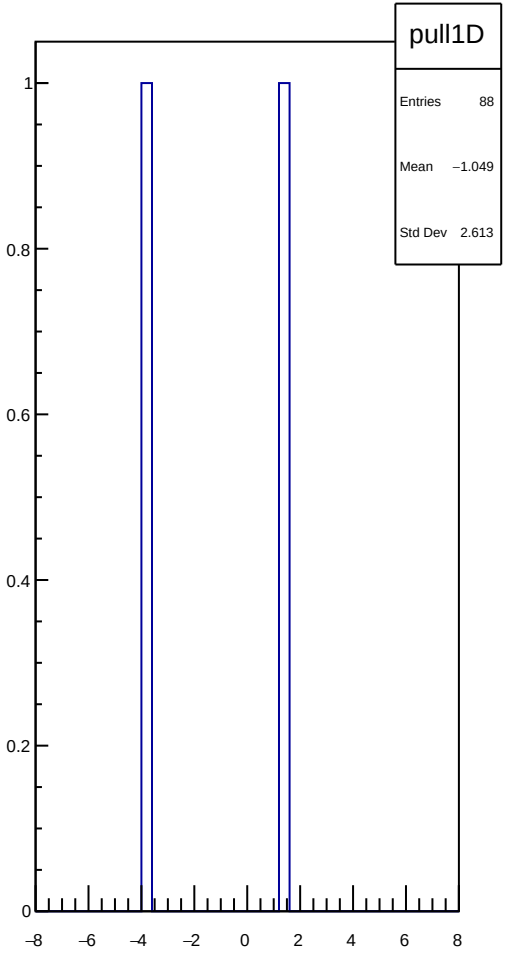

yield_bpm0i02WS_rms vs run
χ² / ndf 9.114e+04 / 87
p0 253.8 ± 0.2029
600
500
400
300
200

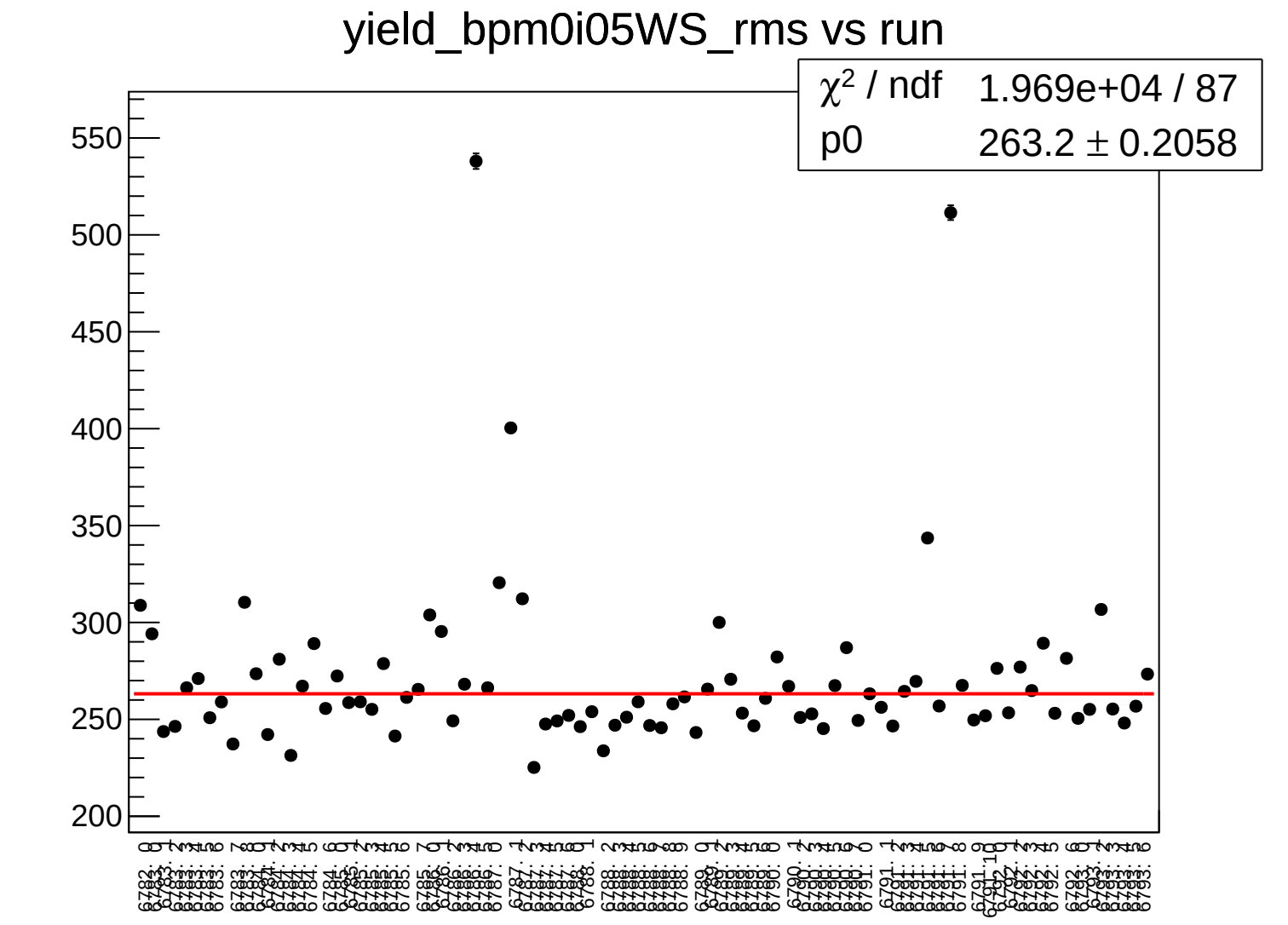

yield_bpm0i02aWS_mean vs run
×10^3
138.5
138
137.5
137
136.5
χ² / ndf 3.848e+06 / 87
p0 1.371e+05 ± 0.284
pull
Entries 88
Mean −561.6
Std Dev 0
400
300
200
100
0
−100
−200
−300

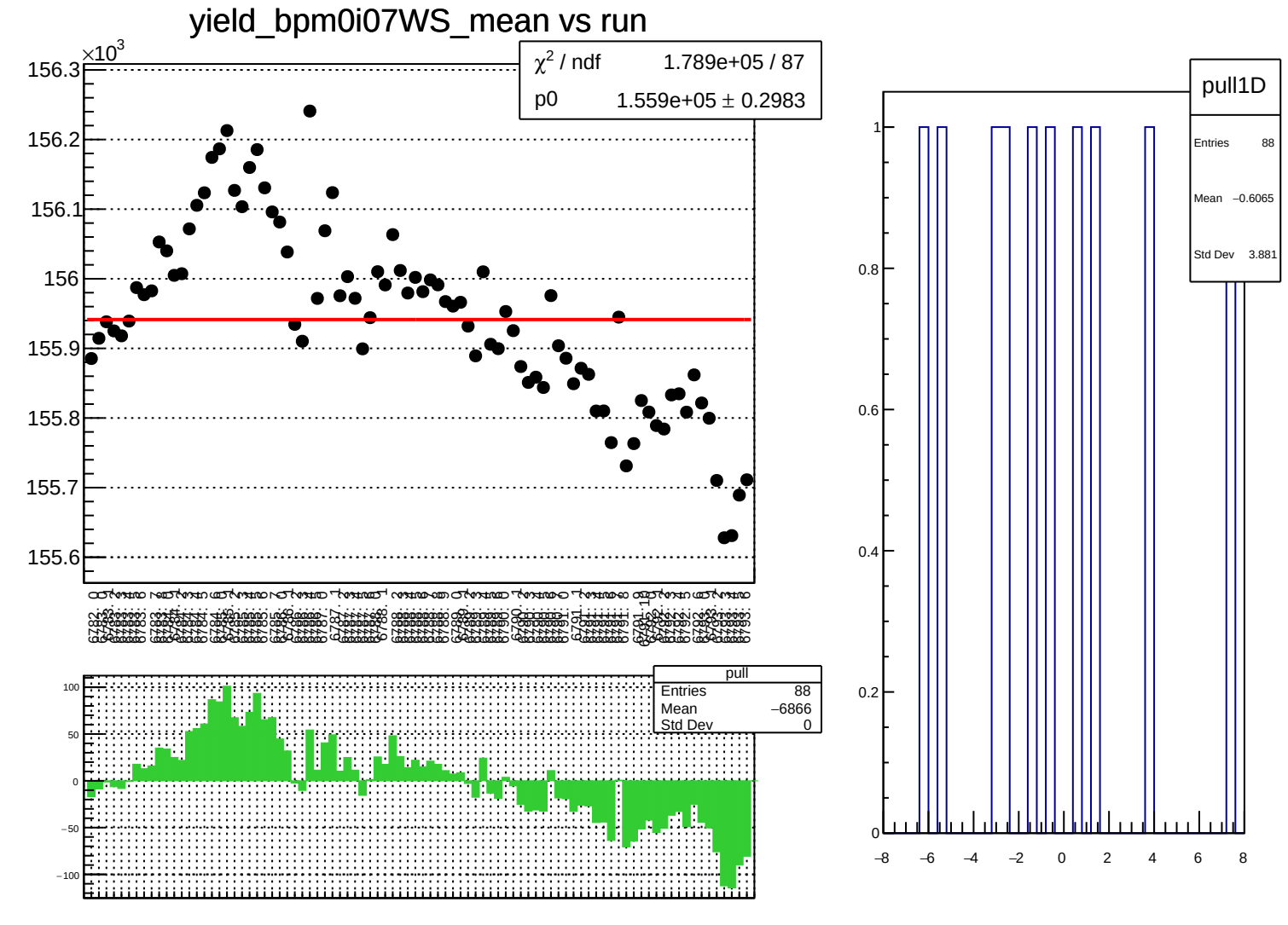

pull1D
Entries 88
Mean 1.011
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

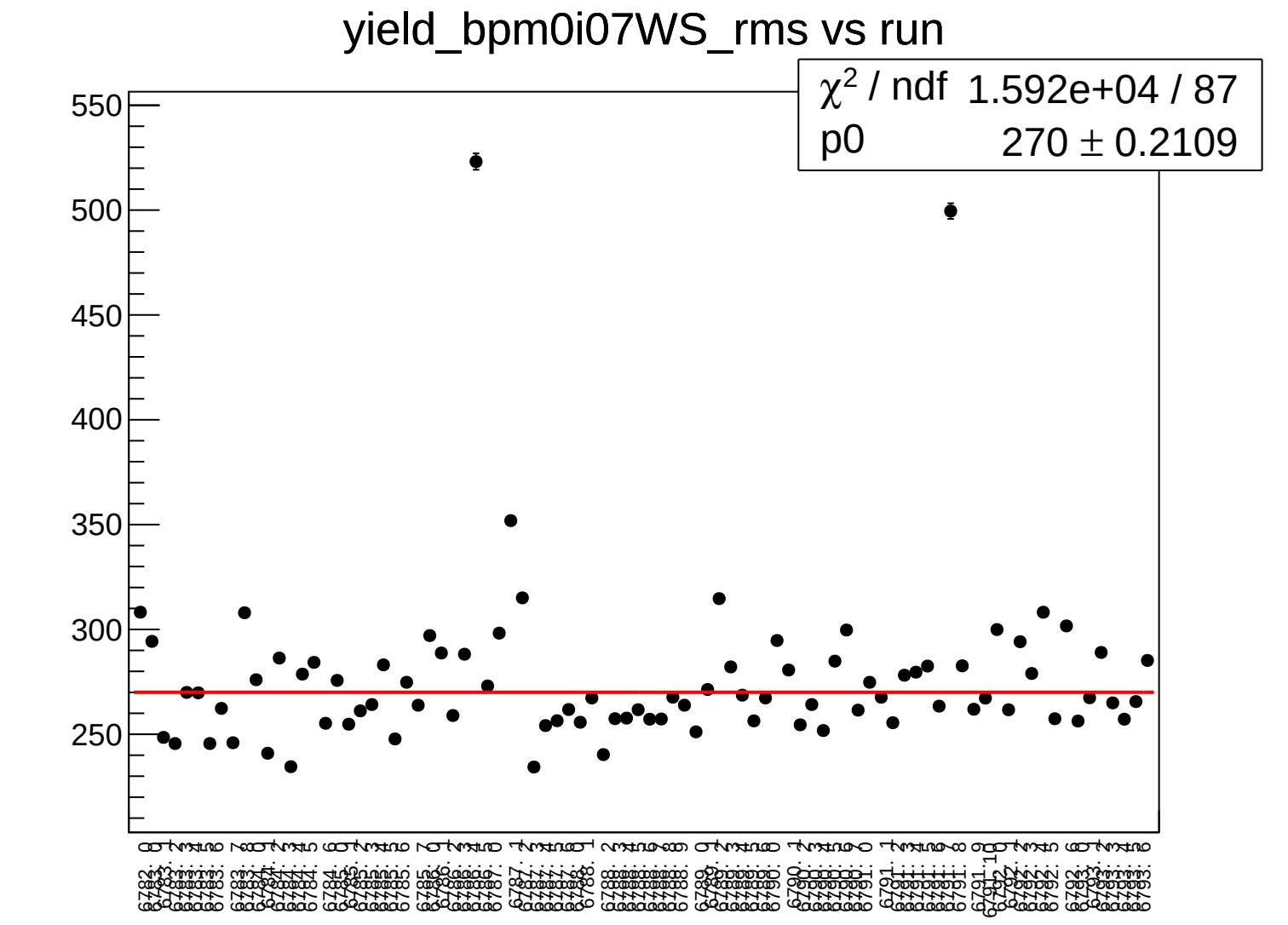

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.591e+04 / 87
p0 254.7 ± 0.2008
600
500
400
300
200

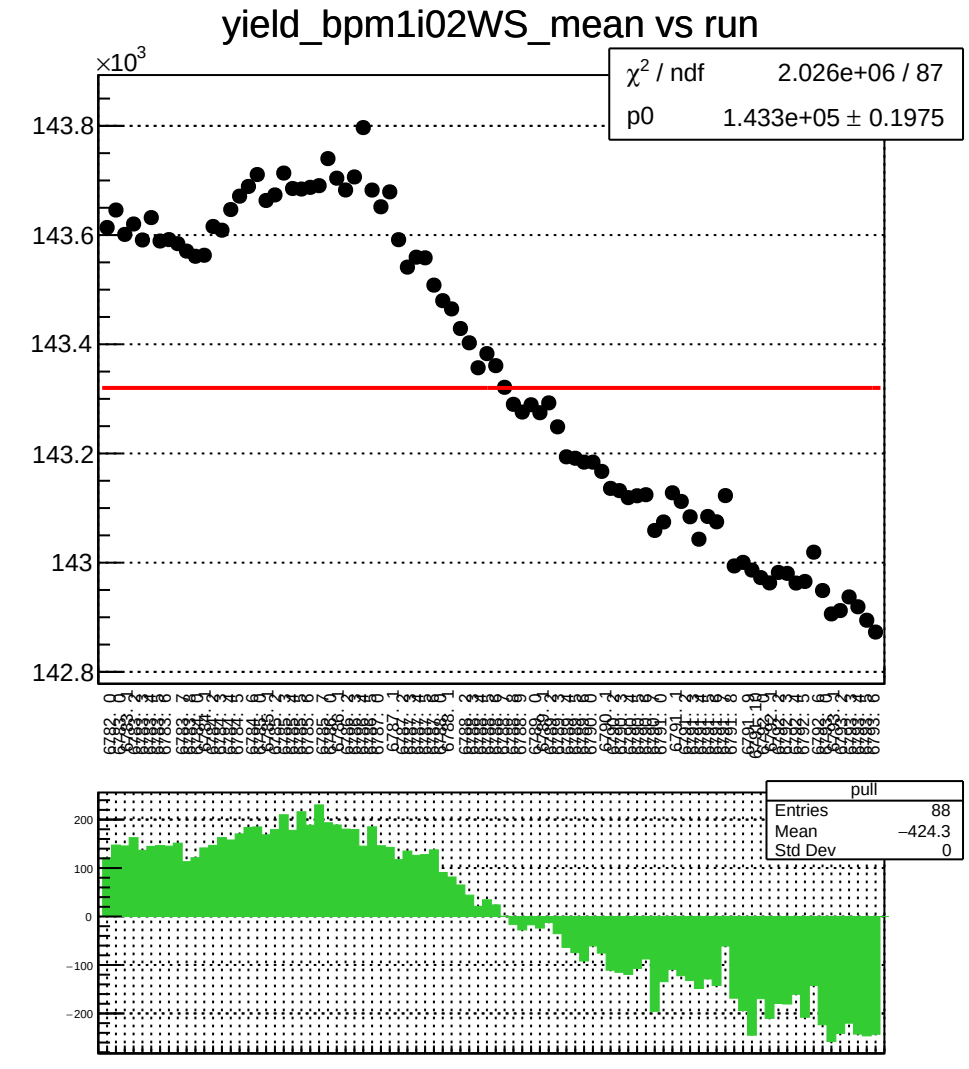

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.315e+05 / 87
p0 1.545e+05 ± 0.2911
155
154.8
154.6
154.4
154.2
154
pull
Entries 88
Mean 3706
Std Dev 0
200
150
100
50
0
−50
−100
−150

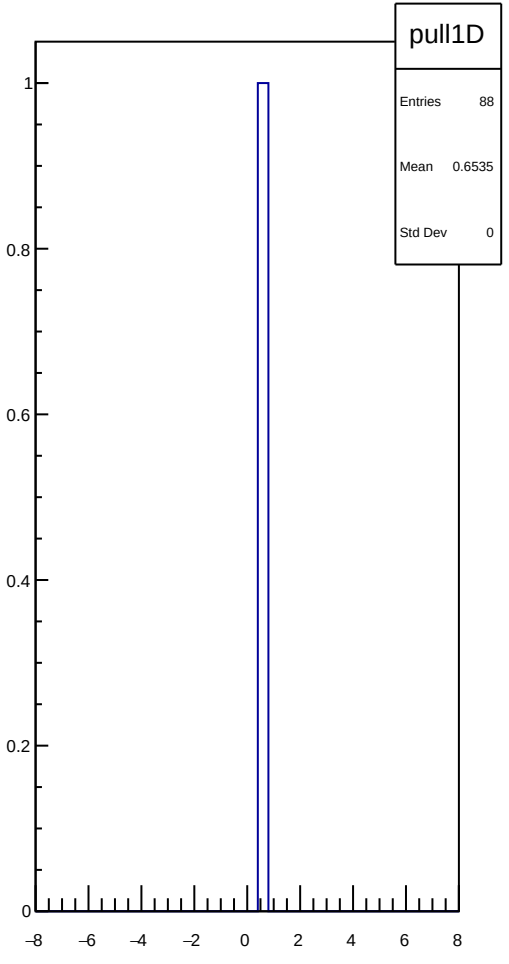

pull1D
Entries 88
Mean −1.049
Std Dev 2.613
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

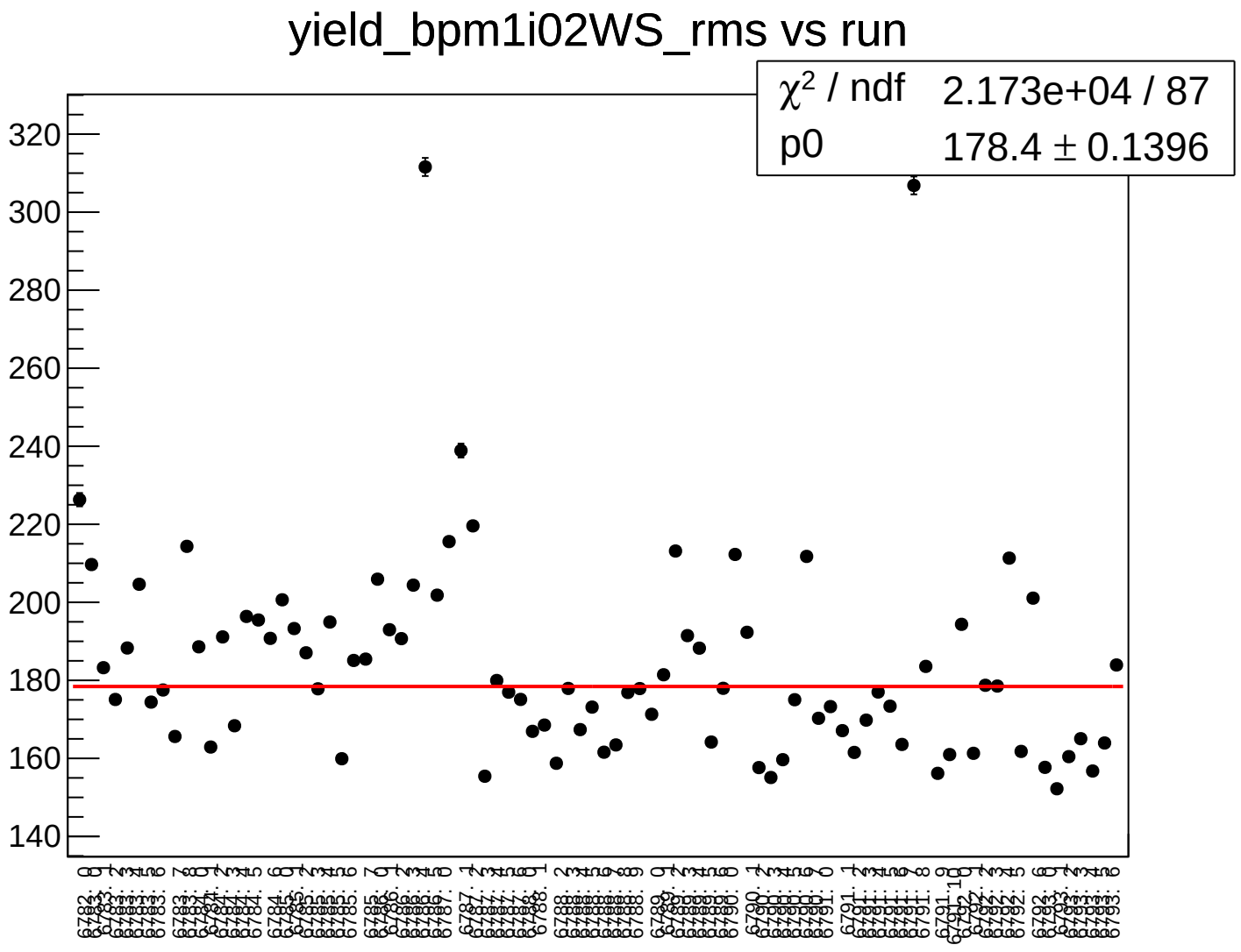

yield_bpm0i05WS_rms vs run
χ^2 / ndf 1.969e+04 / 87
p0 263.2 ± 0.2058
550
500
450
400
350
300
250
200

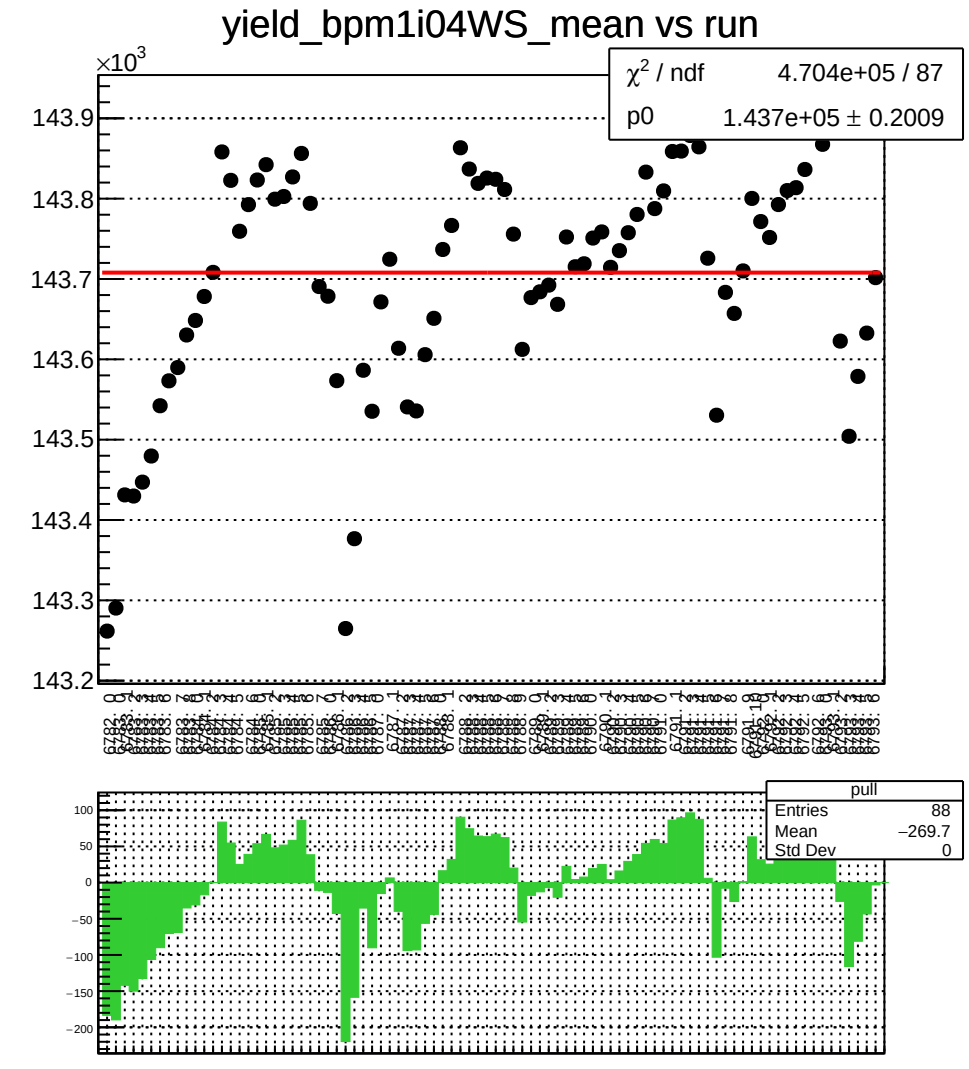

yield_bpm0i07WS_mean vs run
×10^3
156.3
156.2
156.1
156
155.9
155.8
155.7
155.6
χ² / ndf 1.789e+05 / 87
p0 1.559e+05 ± 0.2983
pull
Entries 88
Mean −6866
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 88
Mean −0.6065
Std Dev 3.881
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

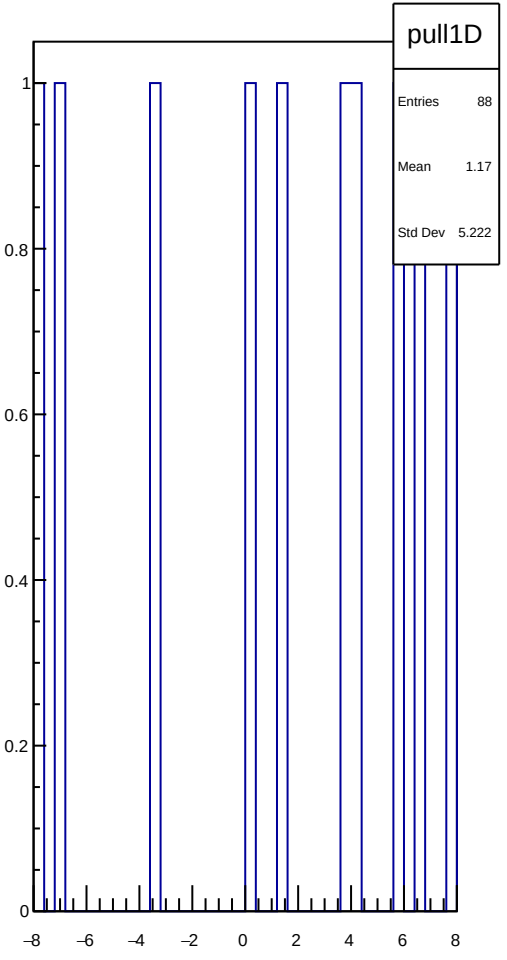

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.592e+04 / 87
p0 270 ± 0.2109
550
500
450
400
350
300
250

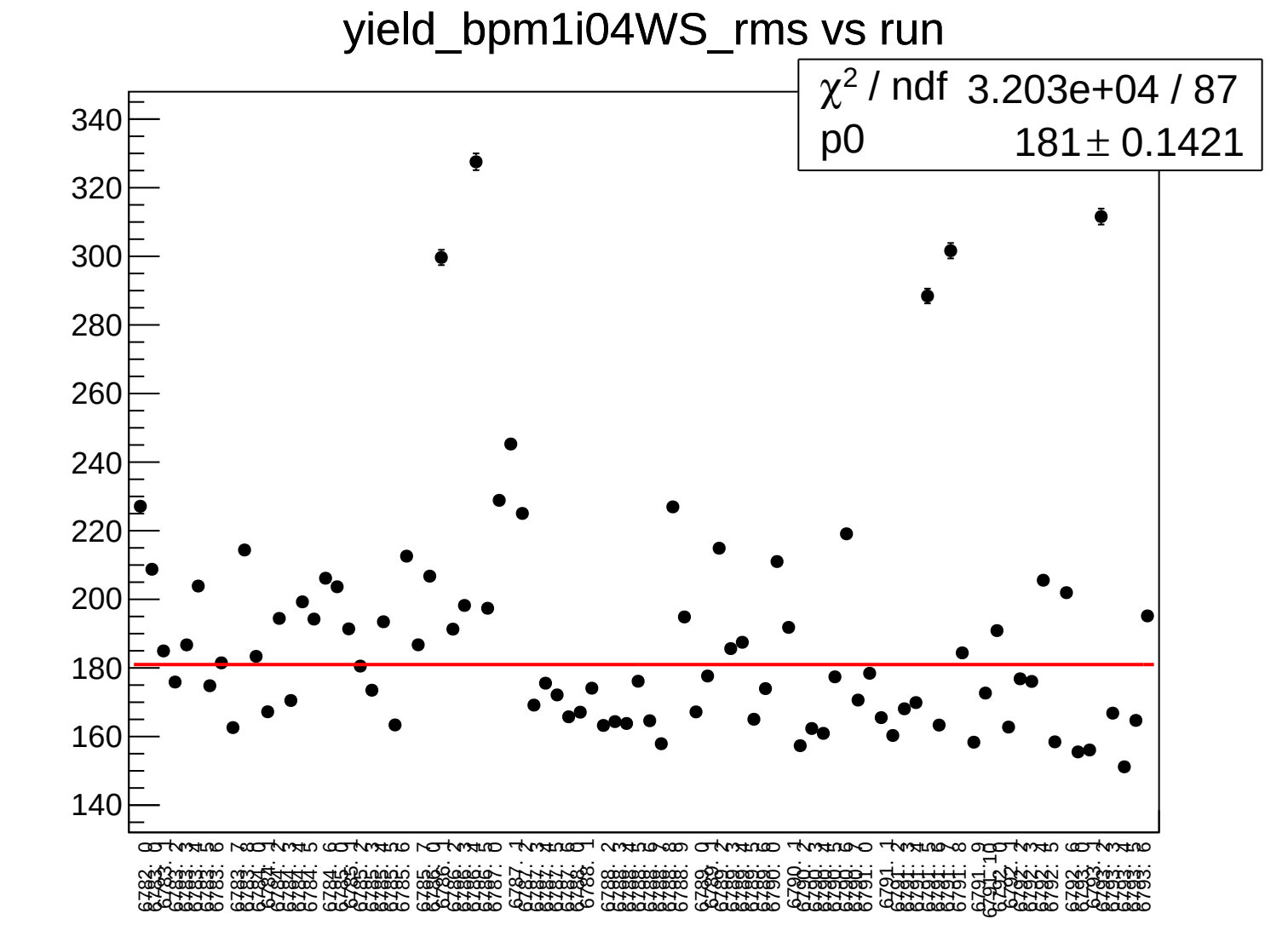

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.026e+06 / 87
p0 1.433e+05 ± 0.1975
143.8
143.6
143.4
143.2
143
142.8
pull
Entries 88
Mean −424.3
Std Dev 0
200
100
0
−100
−200

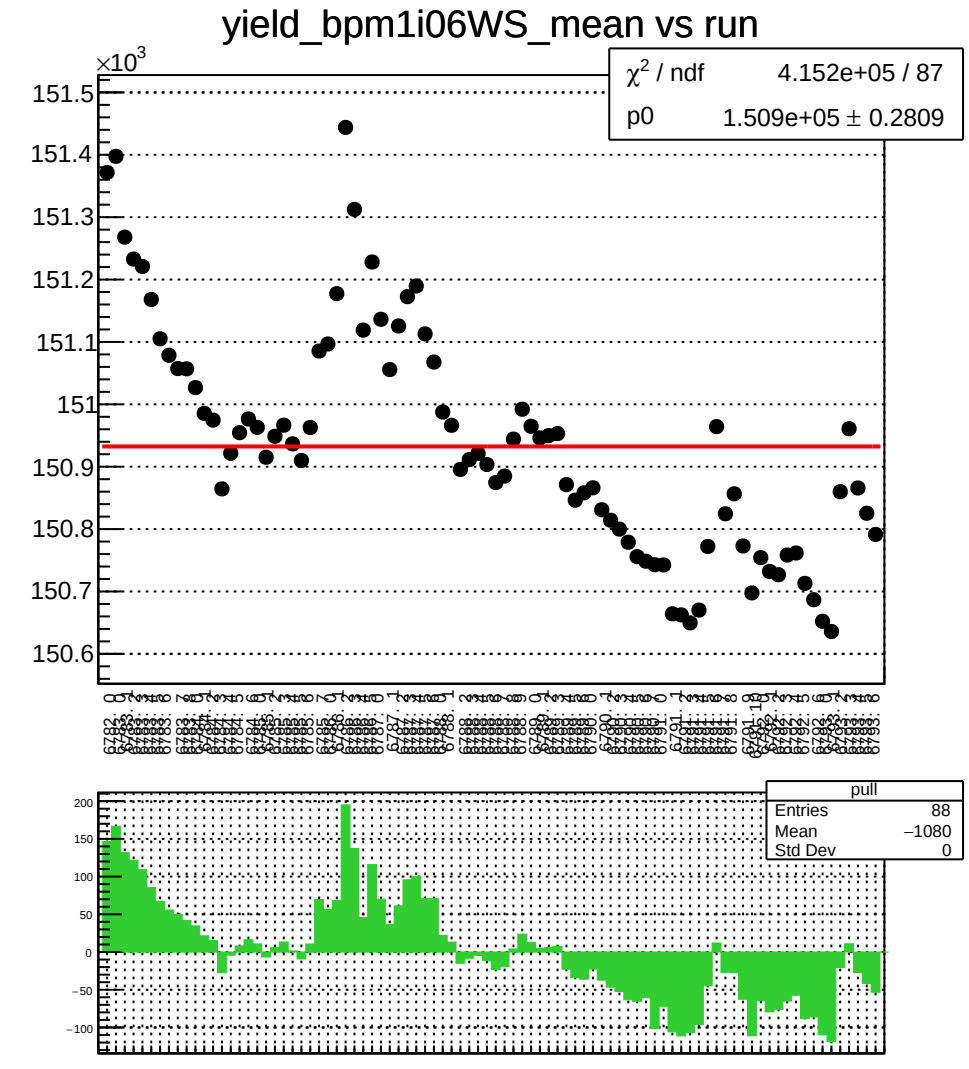

pull1D
Entries 88
Mean 0.6535
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

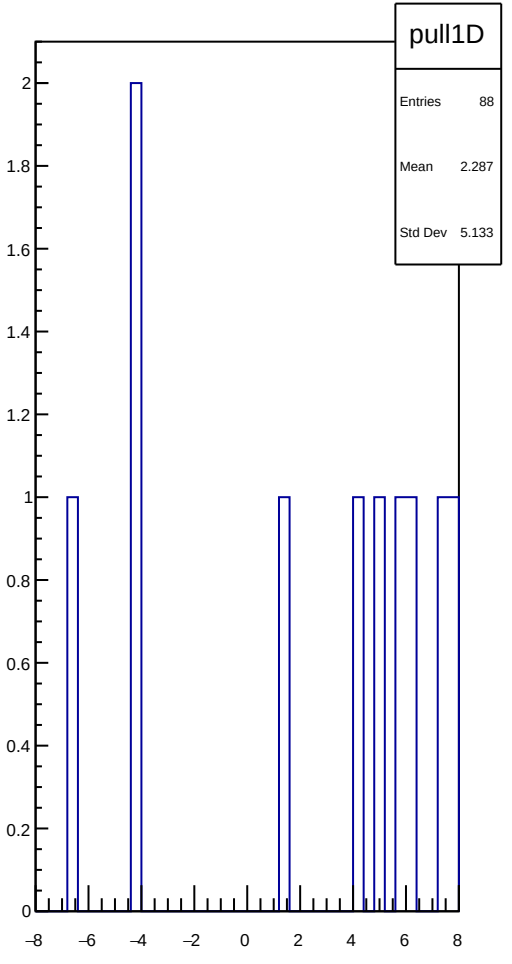

yield_bpm1i02WS_rms vs run
χ² / ndf 2.173e+04 / 87
p0 178.4 ± 0.1396
320
300
280
260
240
220
200
180
160
140

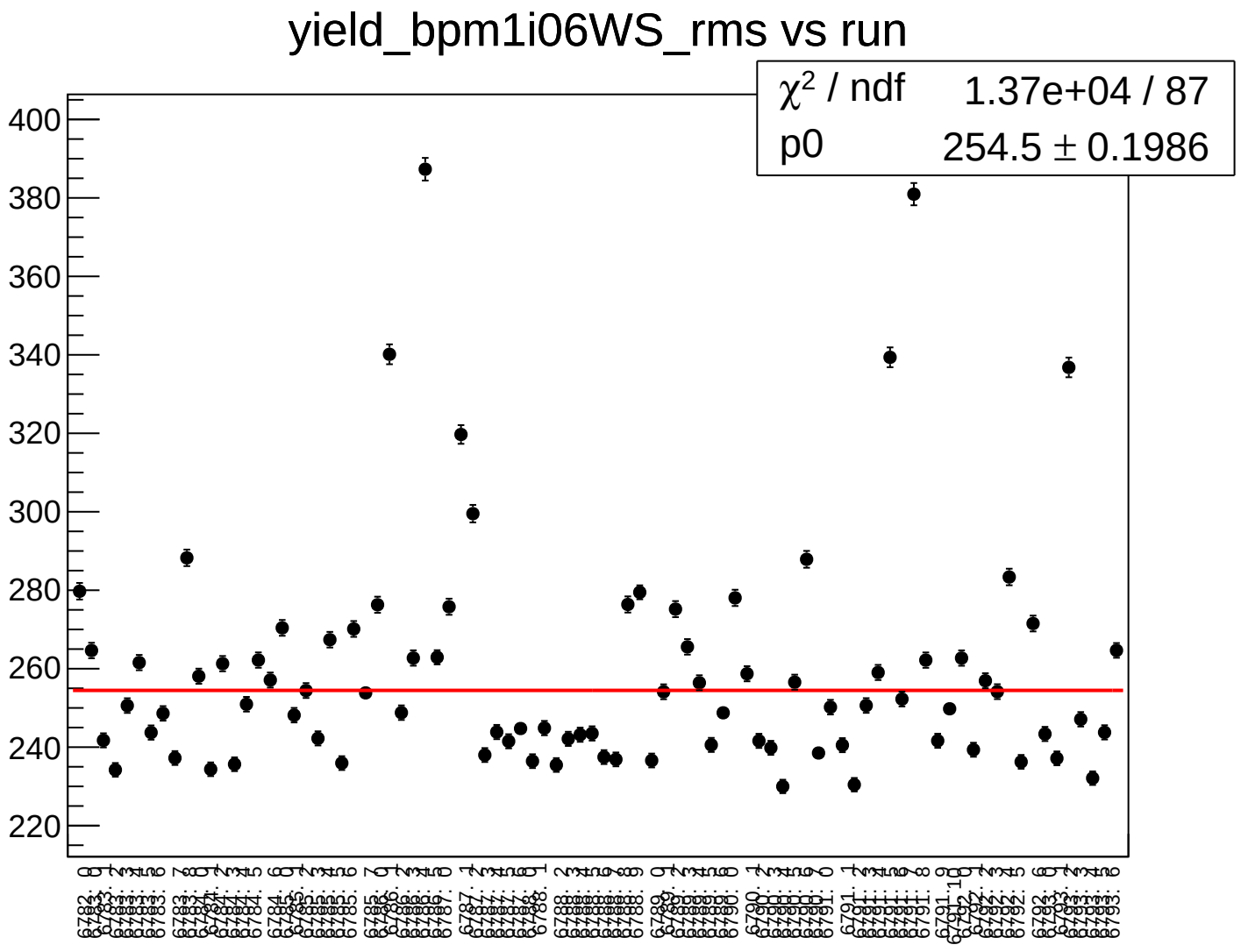

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 4.704e+05 / 87
p0 1.437e+05 ± 0.2009
143.9
143.8
143.7
143.6
143.5
143.4
143.3
143.2
pull
Entries 88
Mean −269.7
Std Dev 0
100
50
0
−50
−100
−150
−200

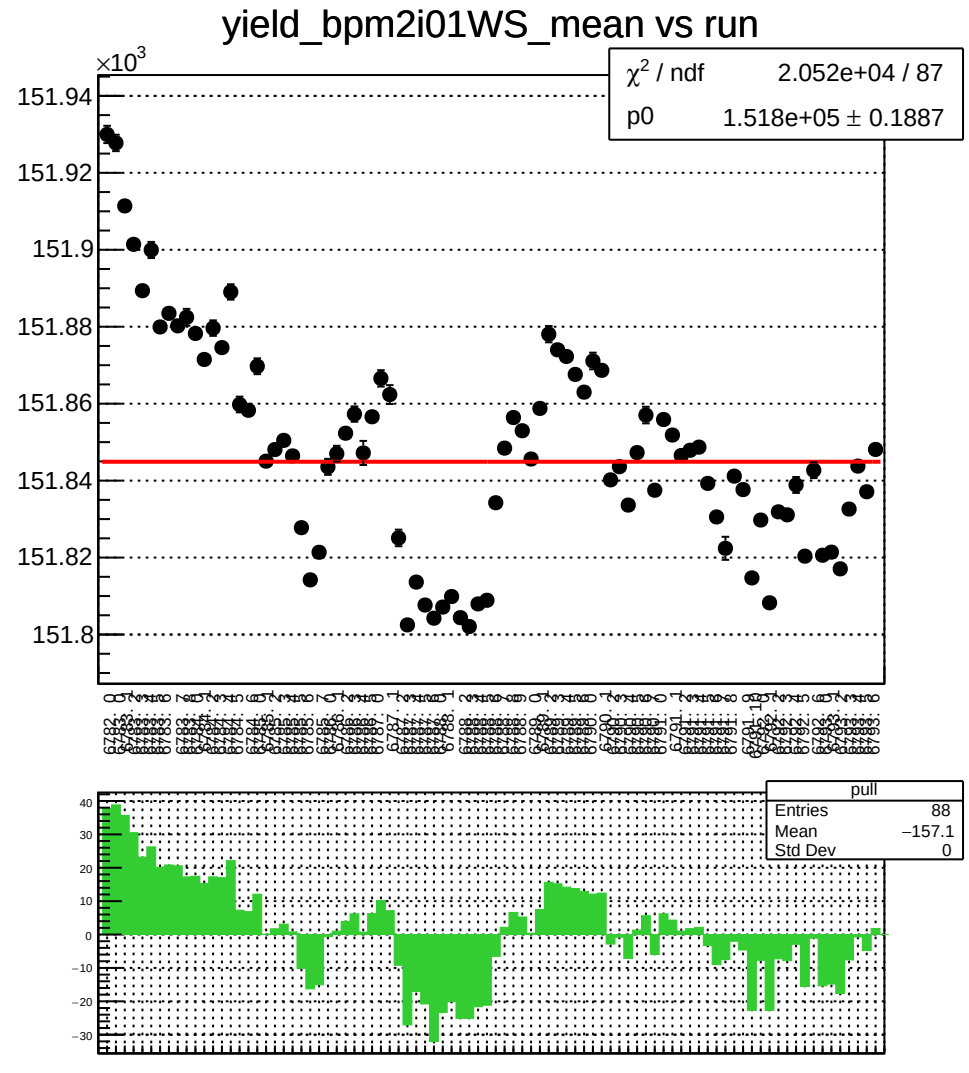

pull1D
Entries 88
Mean 1.17
Std Dev 5.222
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

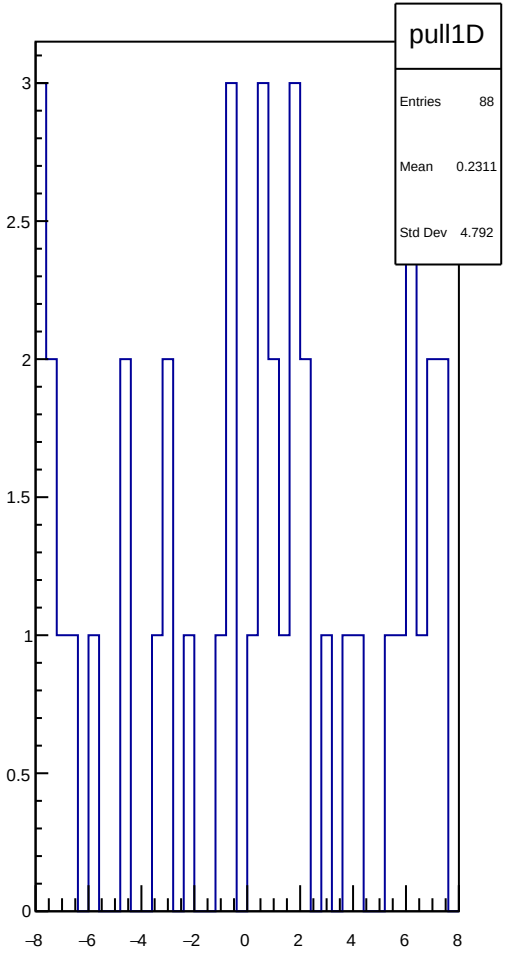

yield_bpm1i04WS_rms vs run
χ² / ndf 3.203e+04 / 87
p0 181 ± 0.1421
340
320
300
280
260
240
220
200
180
160
140

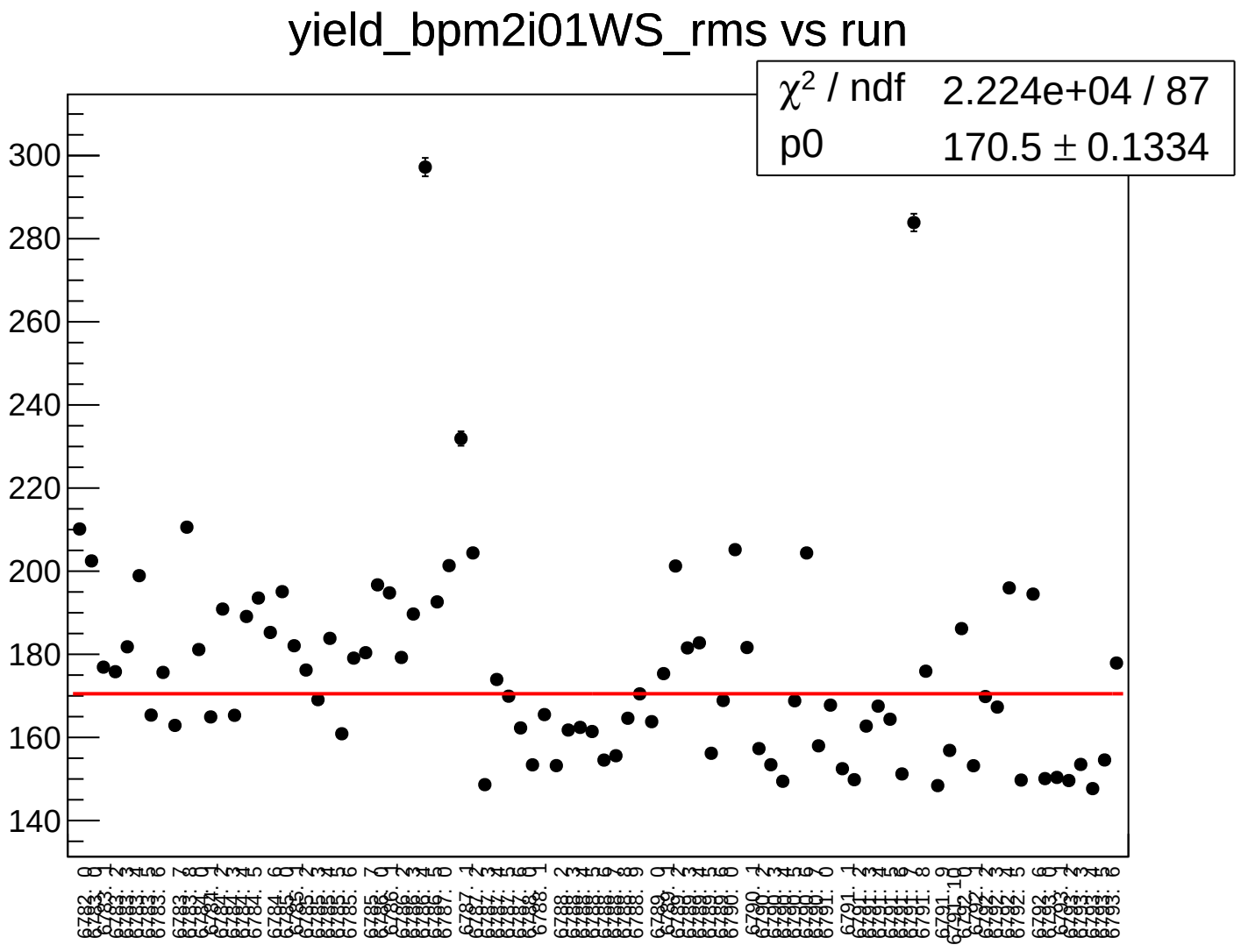

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 4.152e+05 / 87
p0 1.509e+05 ± 0.2809
151.5
151.4
151.3
151.2
151.1
151
150.9
150.8
150.7
150.6
pull
Entries 88
Mean −1080
Std Dev 0
200
150
100
50
0
−50
−100

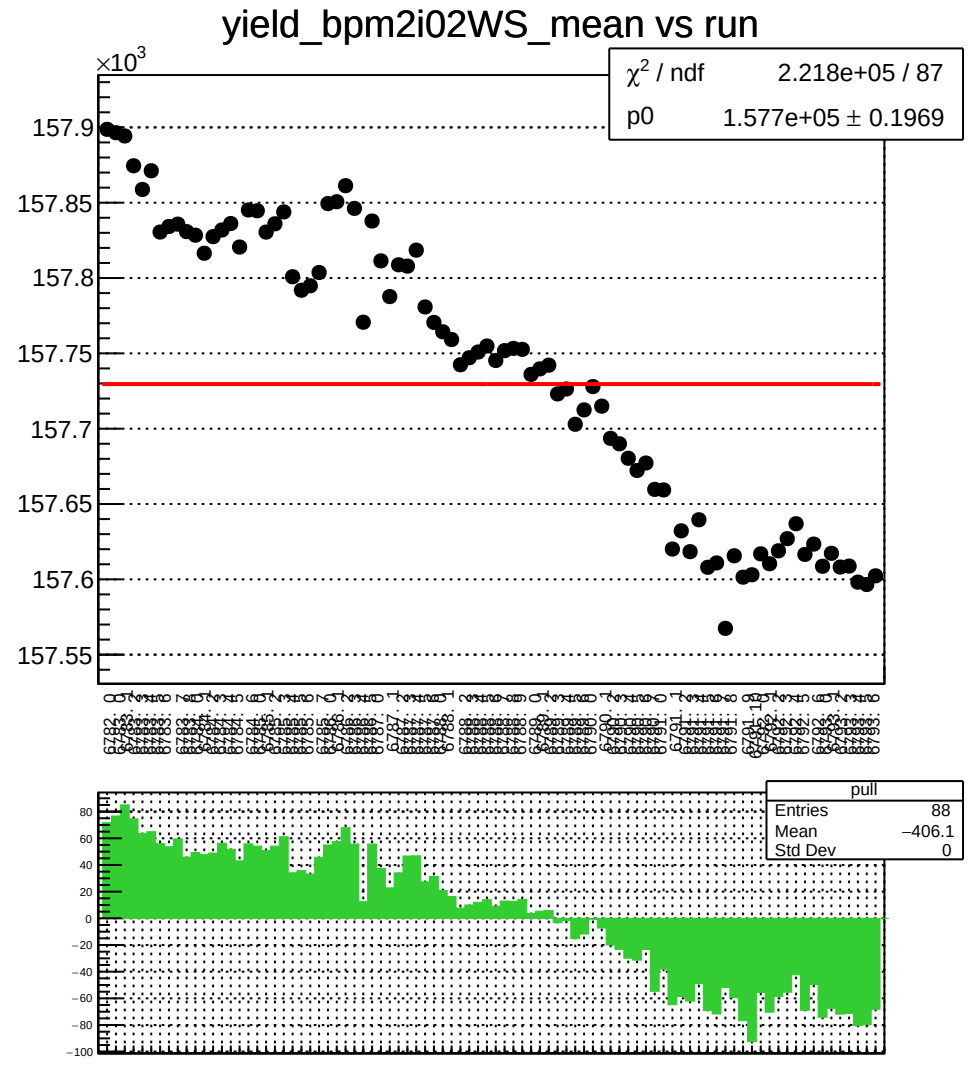

pull1D
Entries 88
Mean 2.287
Std Dev 5.133
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

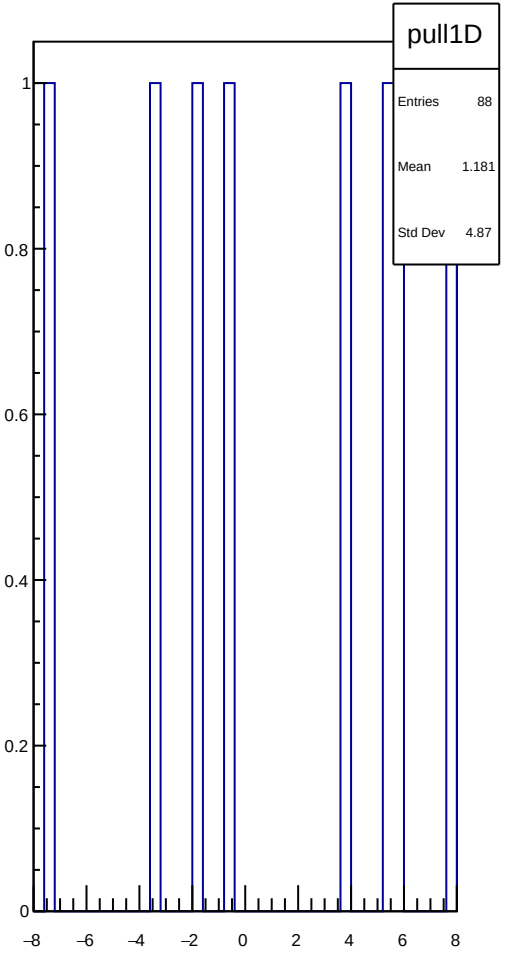

yield_bpm1i06WS_rms vs run
χ² / ndf 1.37e+04 / 87
p0 254.5 ± 0.1986
400
380
360
340
320
300
280
260
240
220

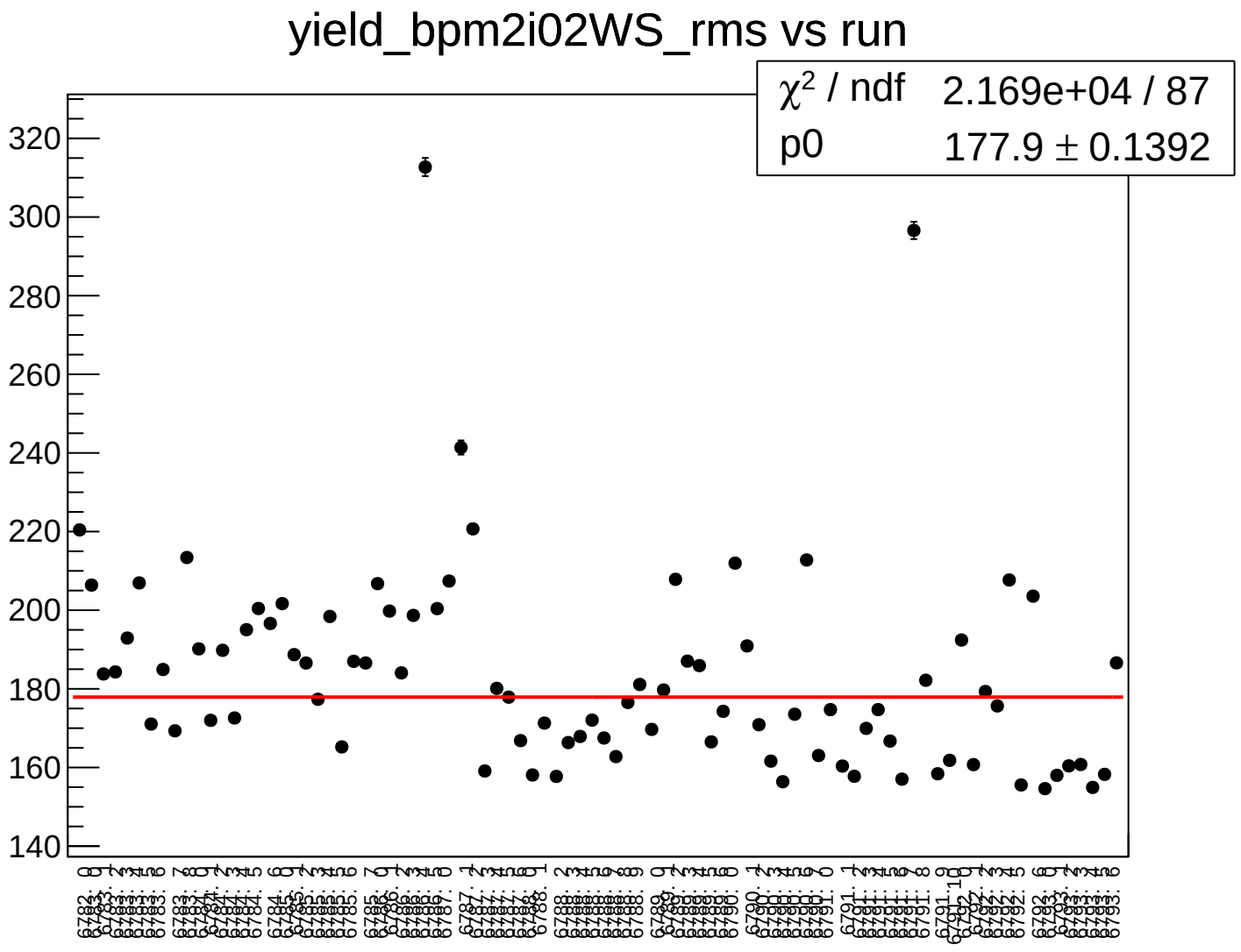

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.052e+04 / 87
p0 1.518e+05 ± 0.1887
151.94
151.92
151.9
151.88
151.86
151.84
151.82
151.8
pull
Entries 88
Mean −157.1
Std Dev 0
40
30
20
10
0
−10
−20
−30

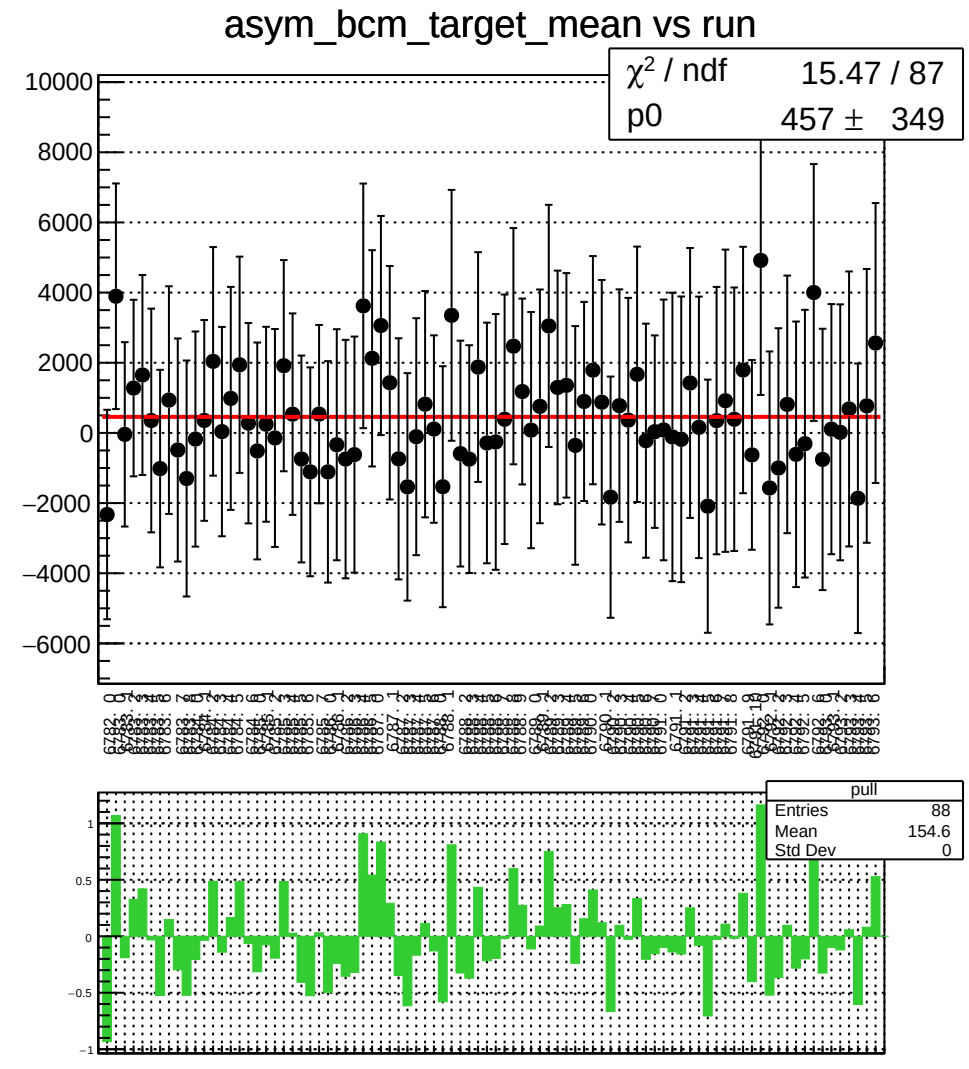

pull1D
Entries 88
Mean 0.2311
Std Dev 4.792
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

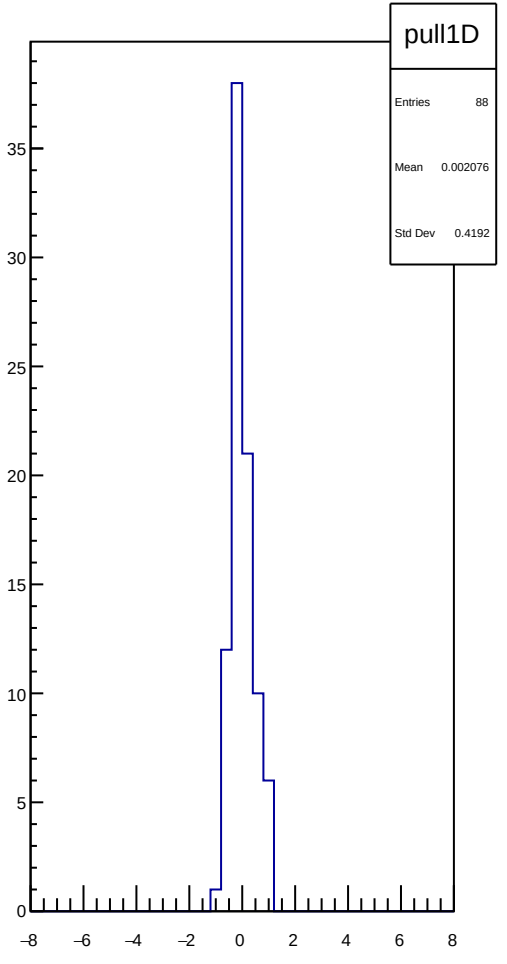

yield_bpm2i01WS_rms vs run
χ² / ndf 2.224e+04 / 87
p0 170.5 ± 0.1334
300
280
260
240
220
200
180
160
140


yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.218e+05 / 87
p0 1.577e+05 ± 0.1969
157.9
157.85
157.8
157.75
157.7
157.65
157.6
157.55
pull
Entries 88
Mean −406.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

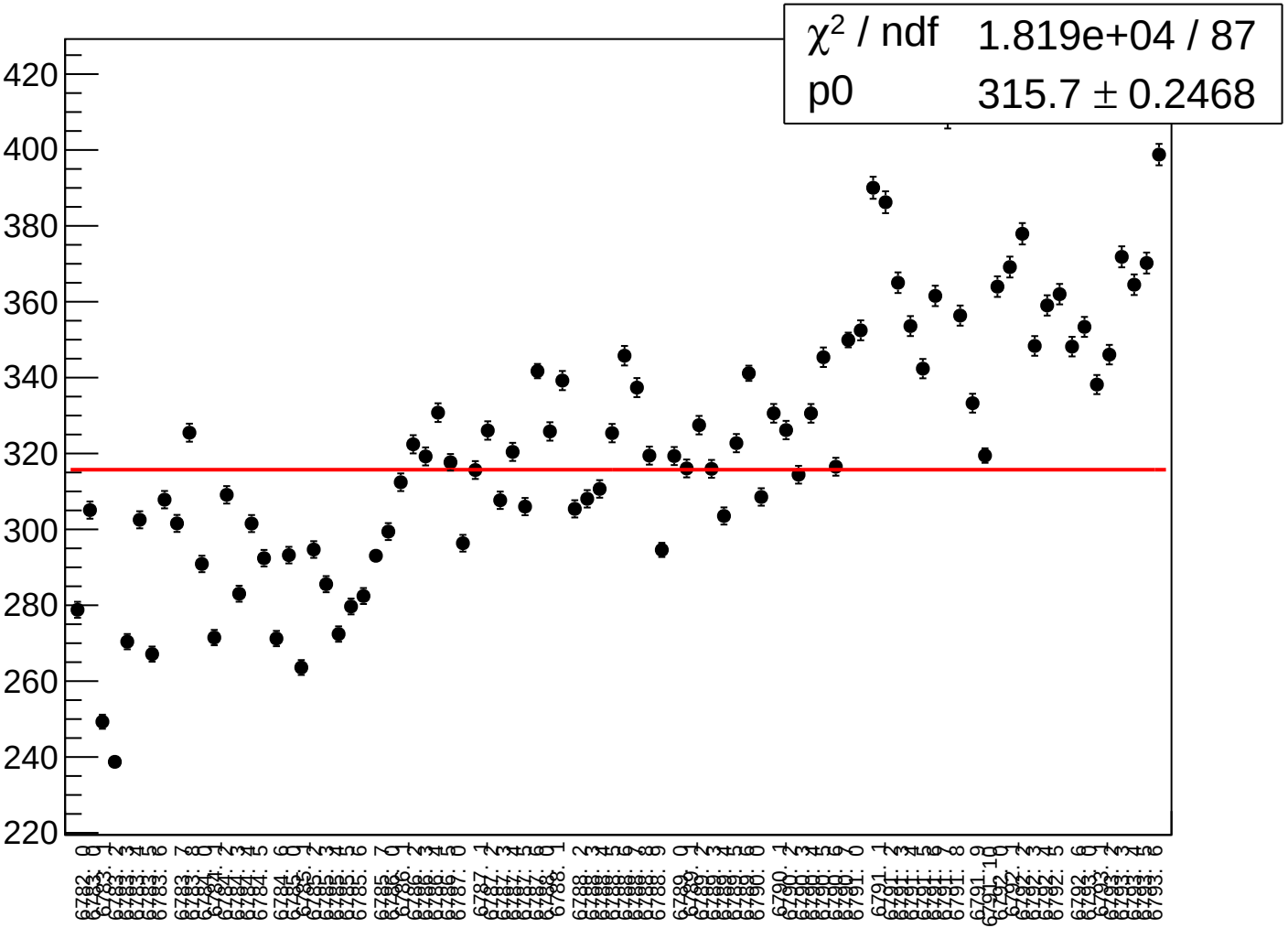

pull1D
Entries 88
Mean 1.181
Std Dev 4.87
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

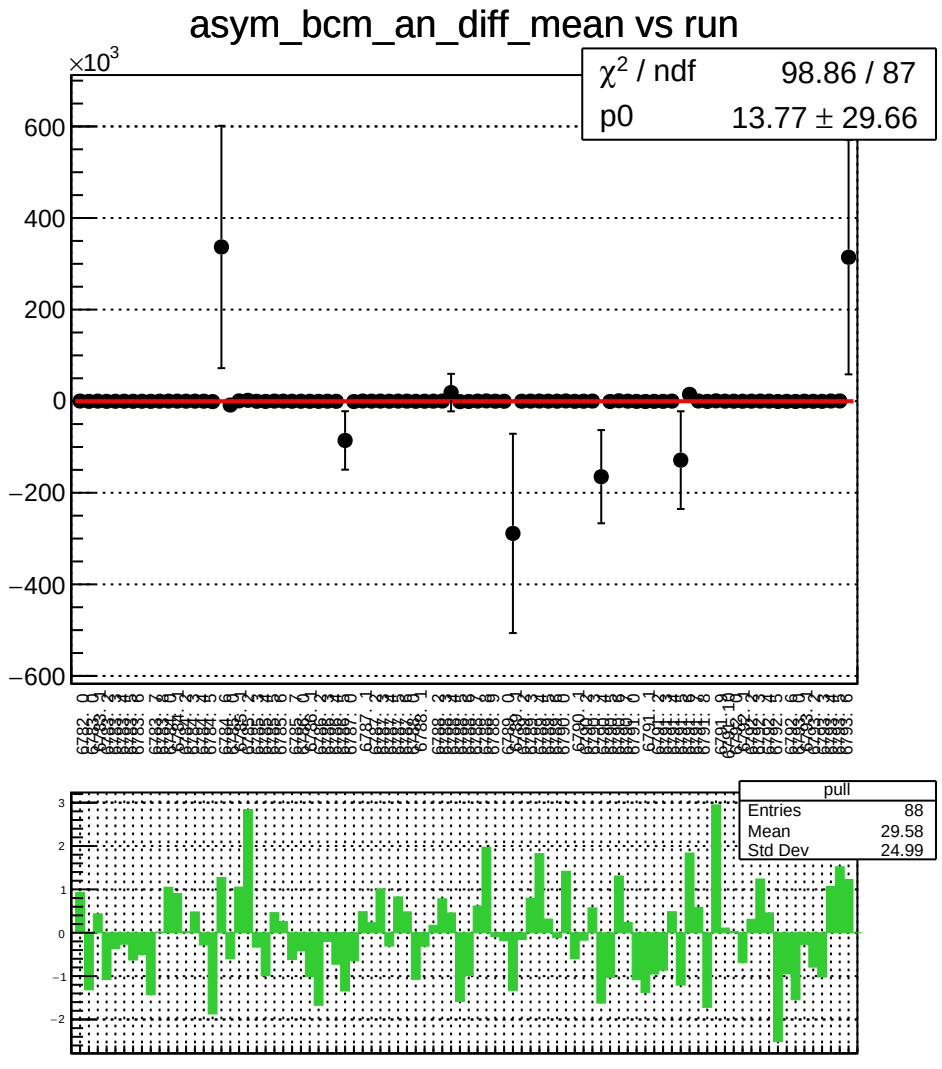

yield_bpm2i02WS_rms vs run
χ² / ndf 2.169e+04 / 87
p0 177.9 ± 0.1392
320
300
280
260
240
220
200
180
160
140

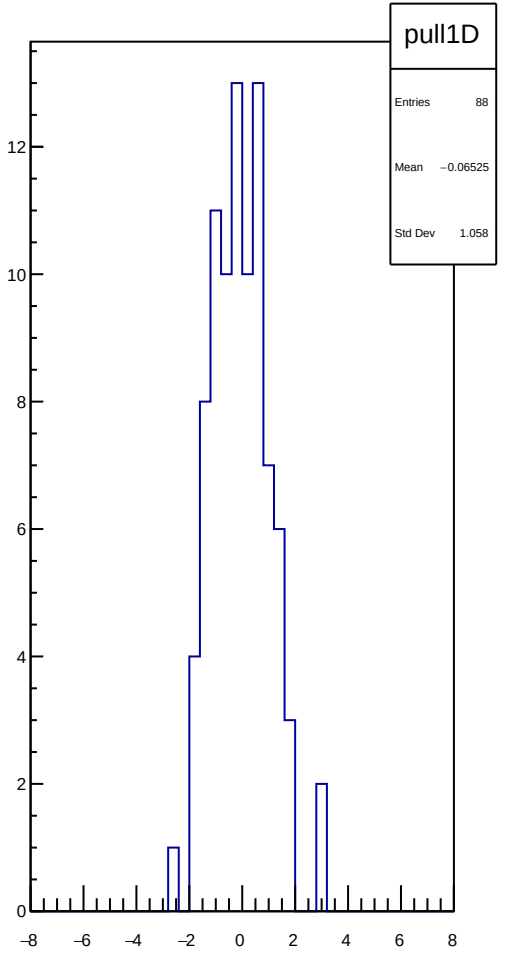

asym_bcm_target_mean vs run
χ² / ndf 15.47 / 87
p0 457 ± 349
pull
Entries 88
Mean 154.6
Std Dev 0


pull1D
Entries 88
Mean 0.002076
Std Dev 0.4192

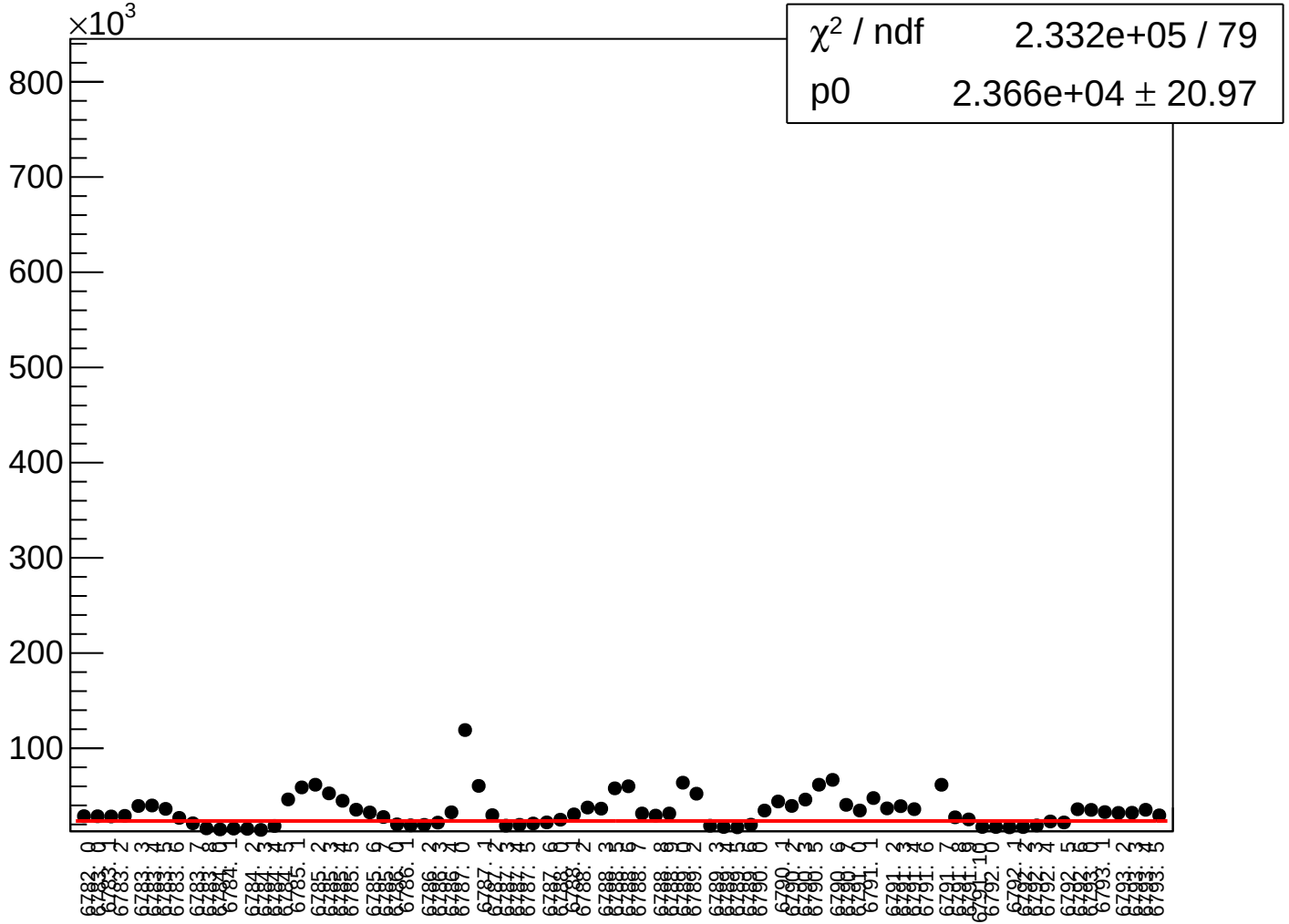
asym_bcm_target_rms vs run

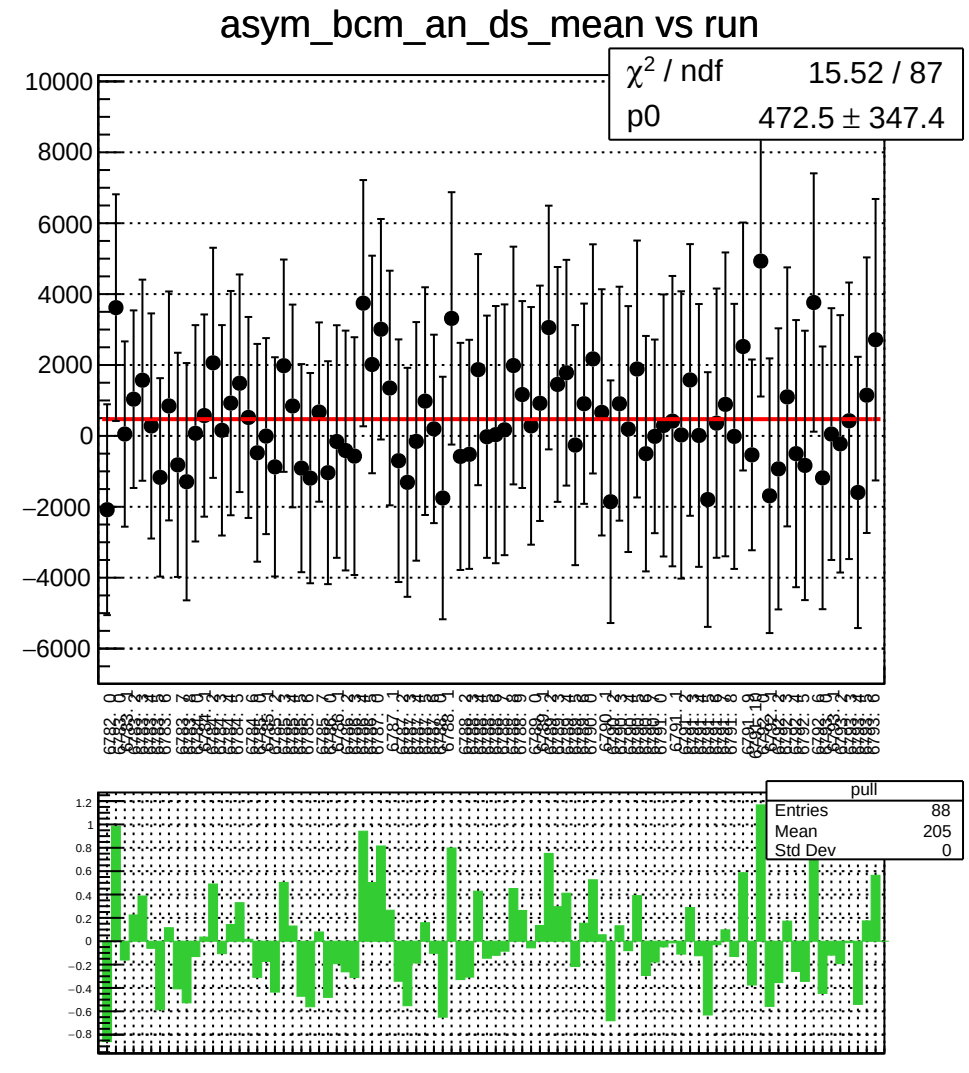


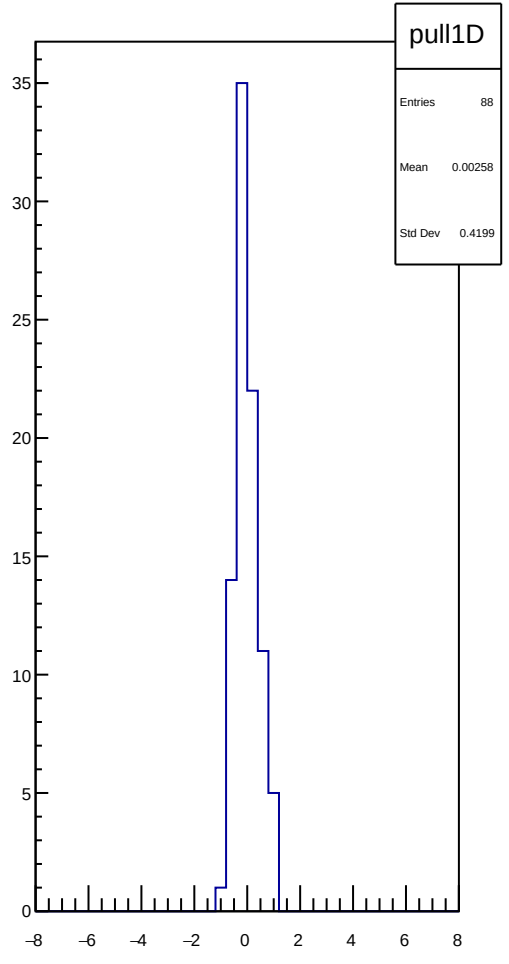

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 98.86 / 87
p0 13.77 ± 29.66
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 29.58
Std Dev 24.99
3
2
1
0
−1
−2

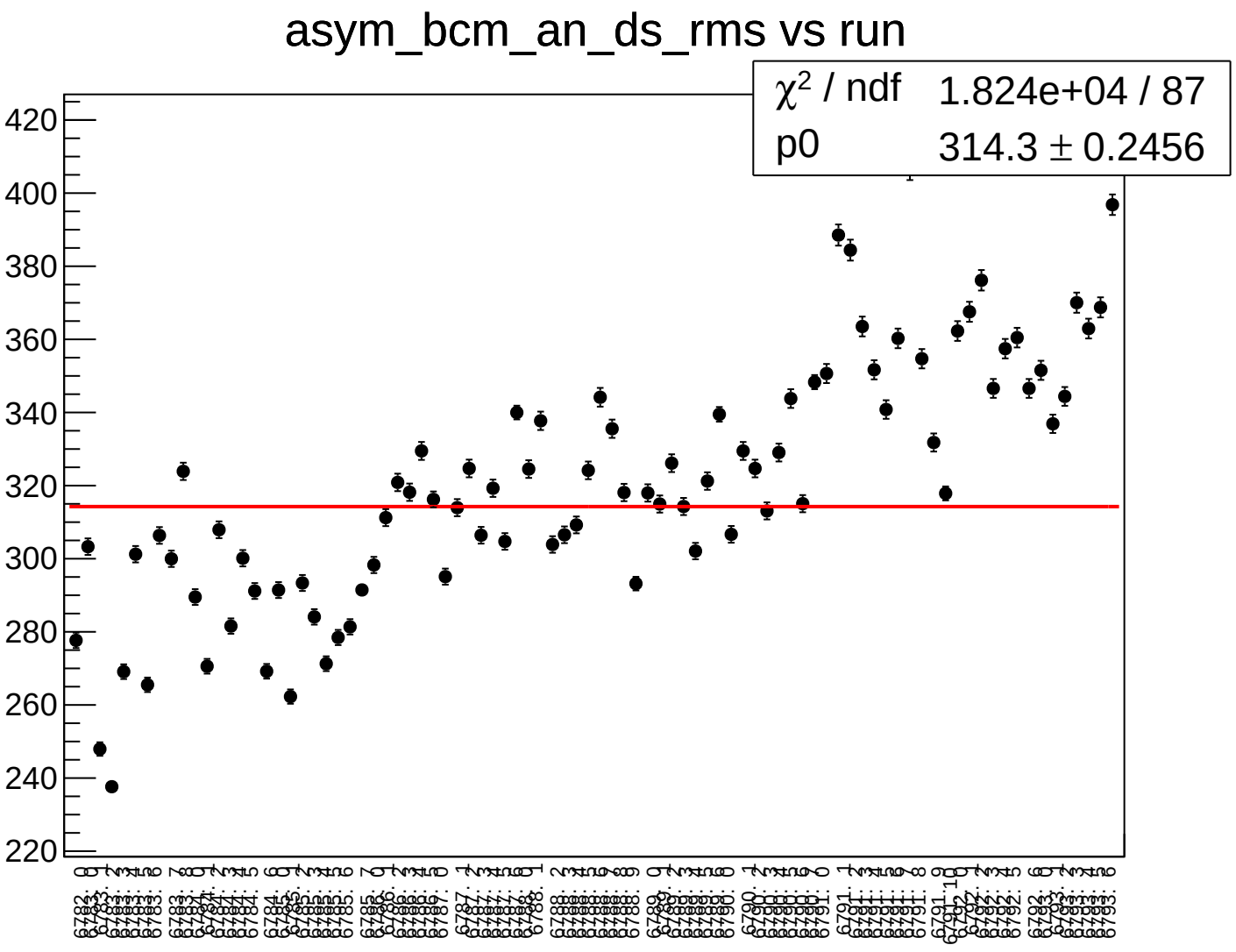

pull1D
Entries 88
Mean −0.06525
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

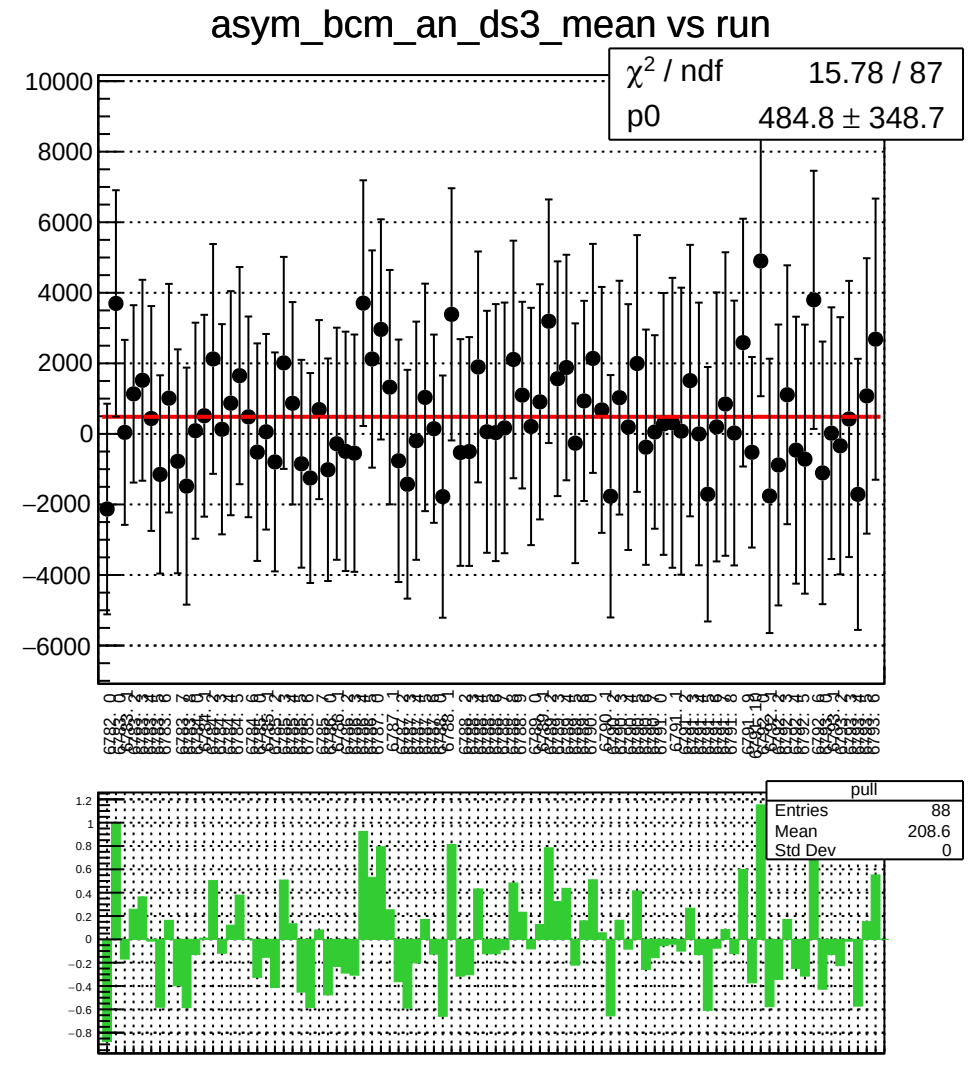
asym_bcm_an_diff_rms vs run

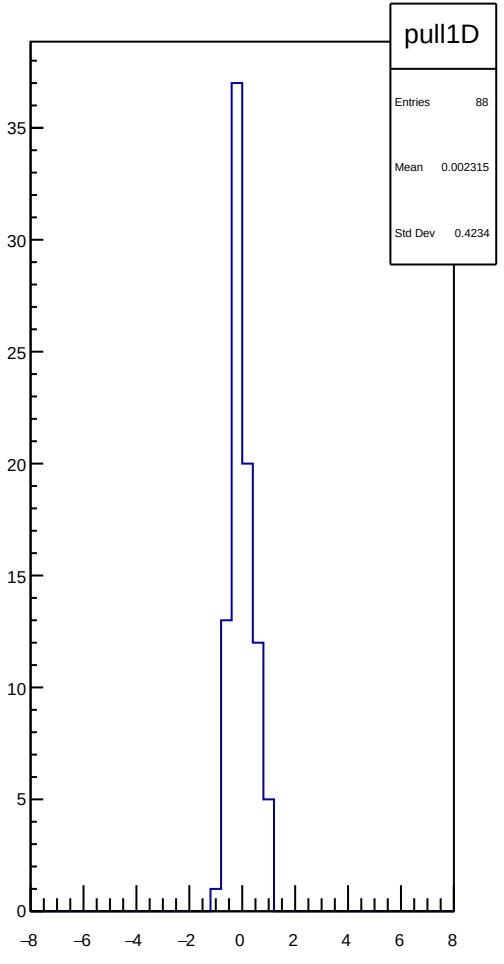


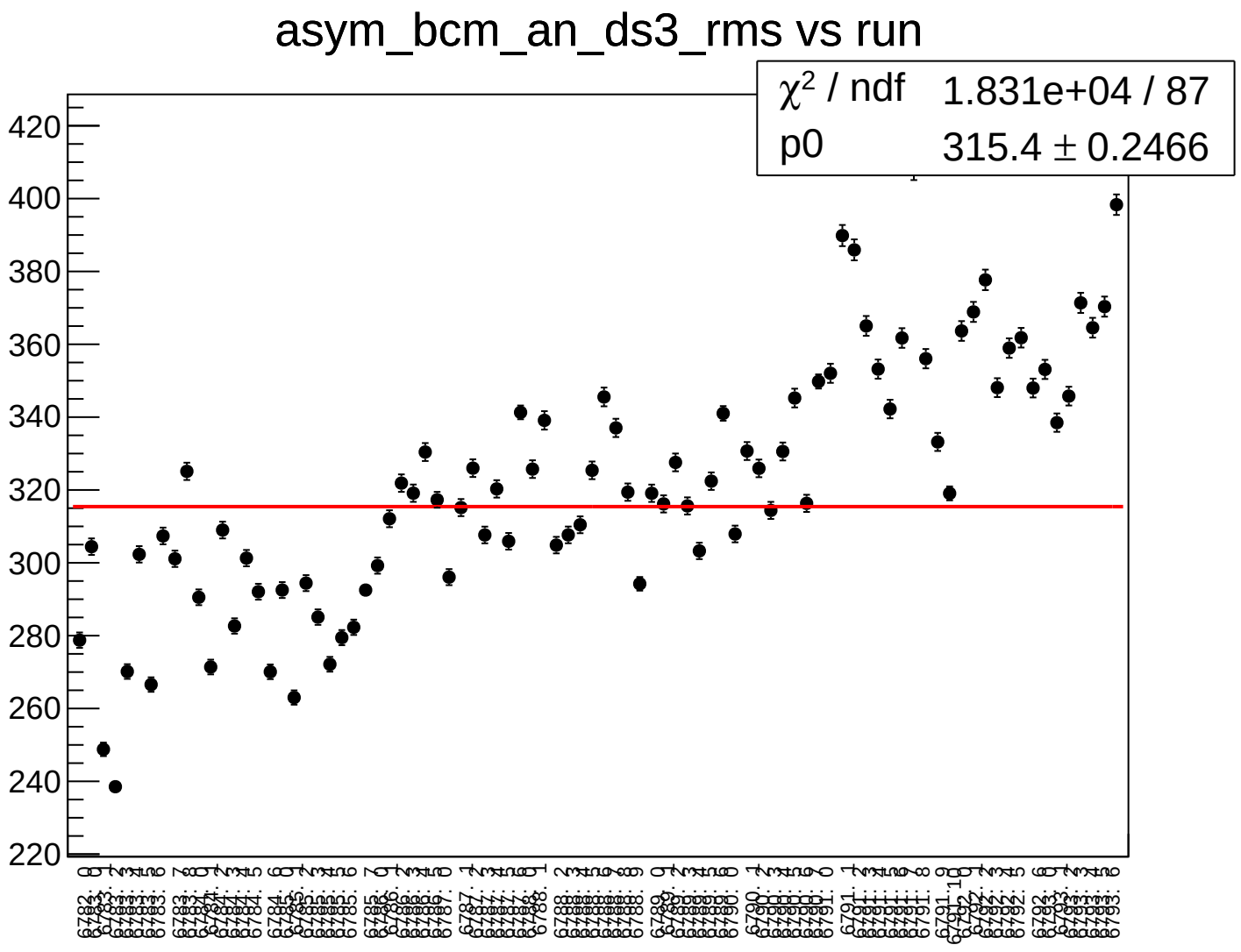

asym_bcm_an_ds_mean vs run
χ² / ndf 15.52 / 87
p0 472.5 ± 347.4
pull
Entries 88
Mean 205
Std Dev 0

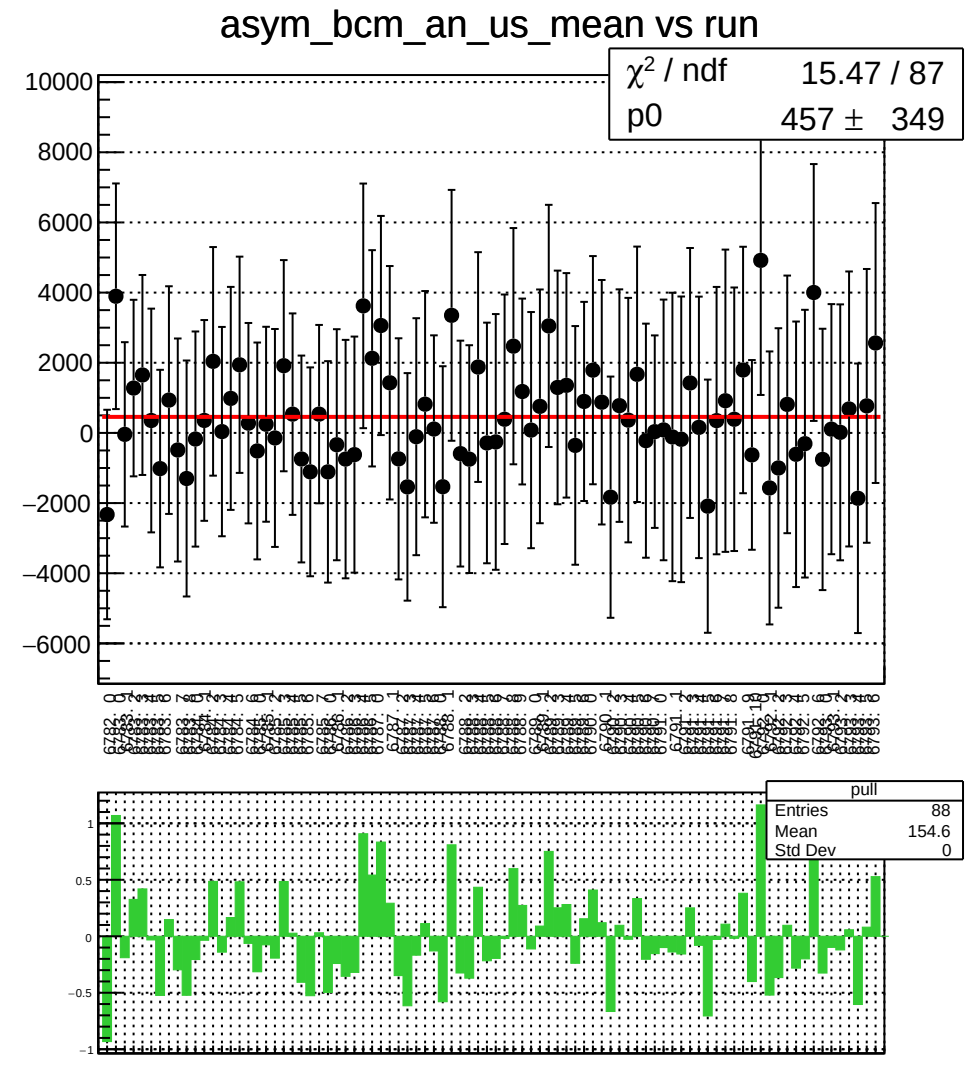

pull1D
Entries 88
Mean 0.00258
Std Dev 0.4199

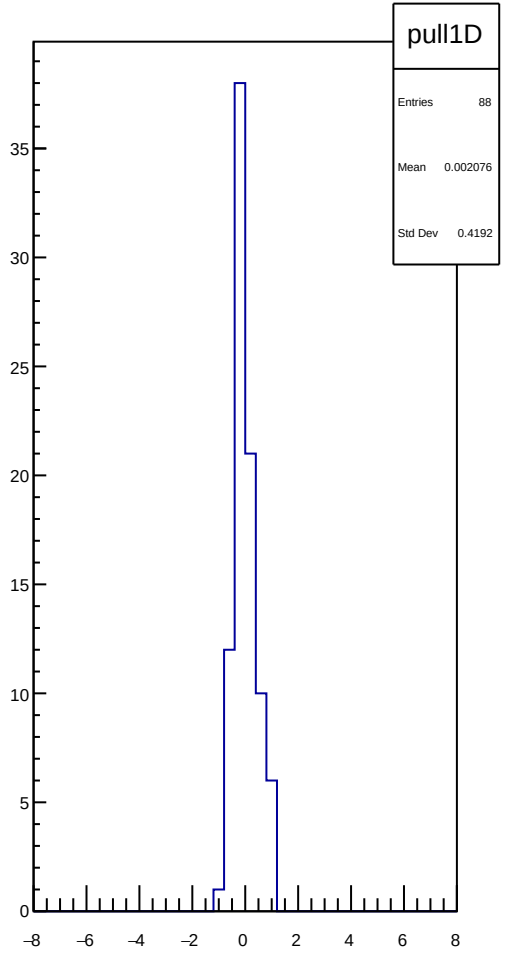

asym_bcm_an_ds_rms vs run
χ² / ndf 1.824e+04 / 87
p0 314.3 ± 0.2456
420
400
380
360
340
320
300
280
260
240
220

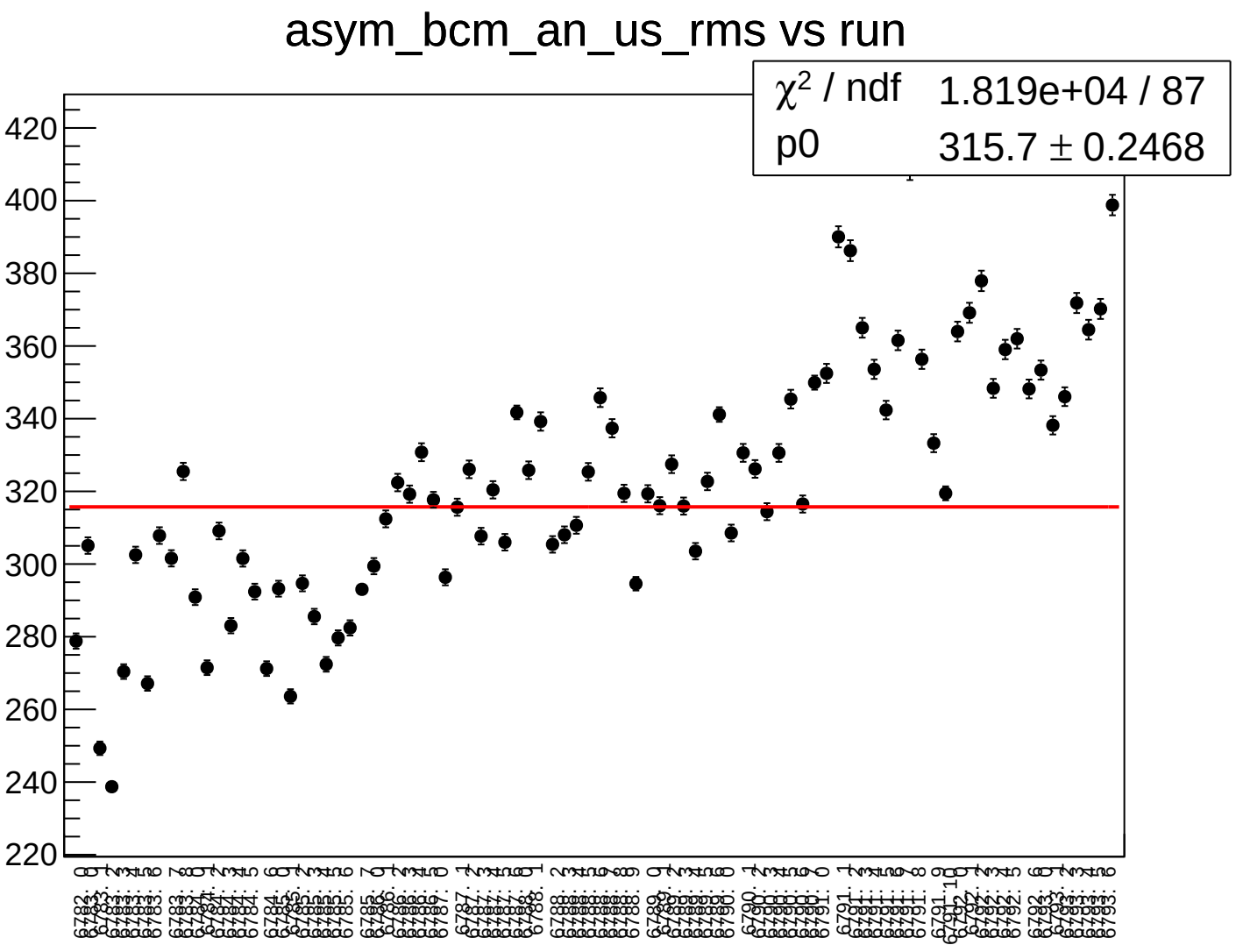

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.78 / 87
p0 484.8 ± 348.7
pull
Entries 88
Mean 208.6
Std Dev 0

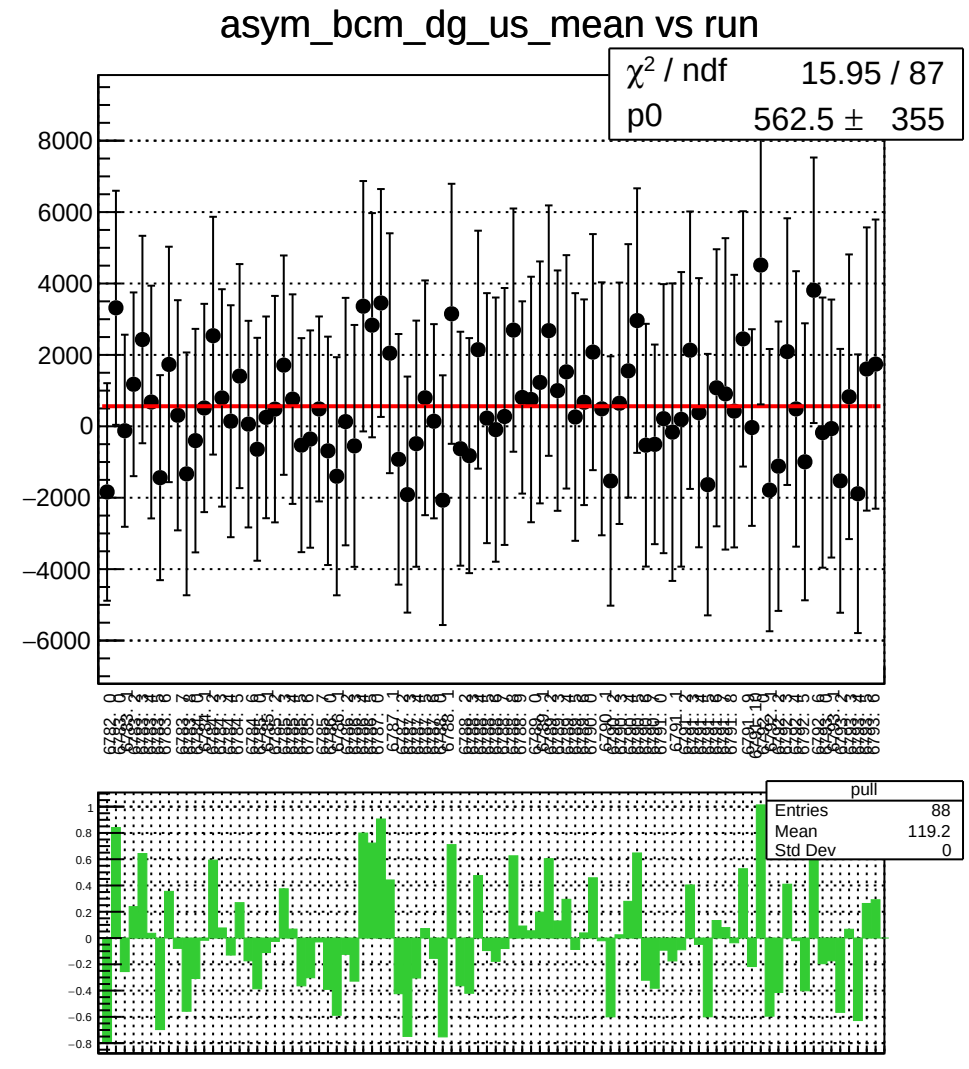

pull1D
Entries 88
Mean 0.002315
Std Dev 0.4234

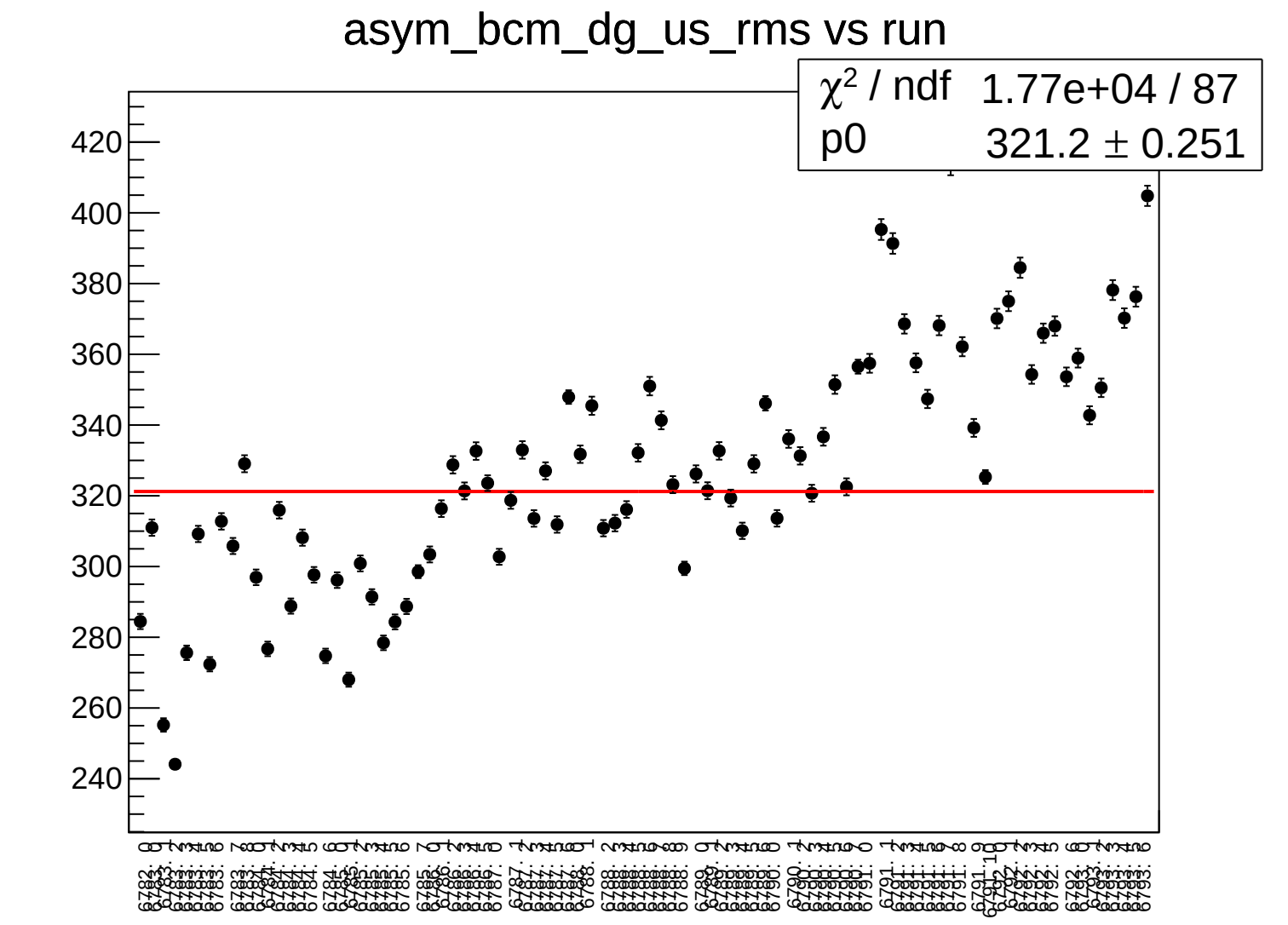

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.831e+04 / 87
p0 315.4 ± 0.2466
420
400
380
360
340
320
300
280
260
240
220

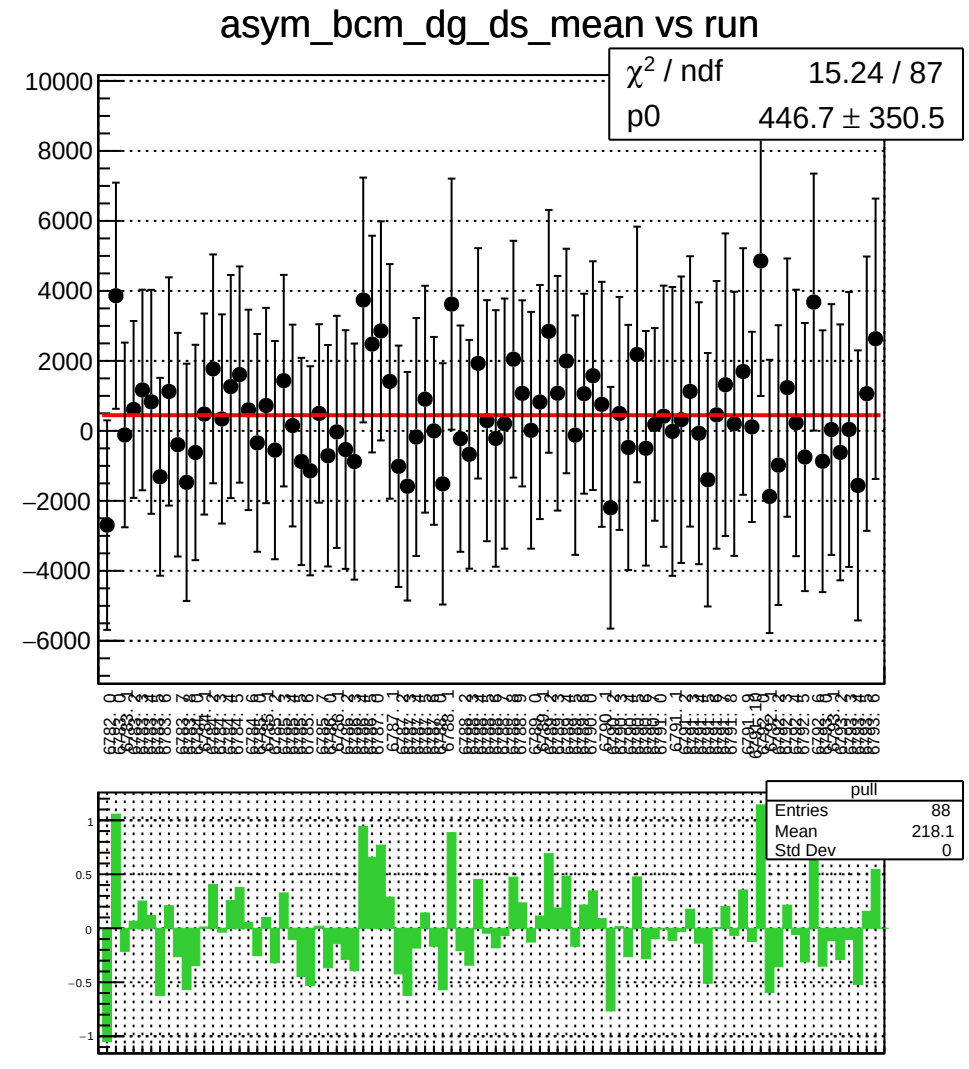

asym_bcm_an_us_mean vs run
χ² / ndf 15.47 / 87
p0 457 ± 349
pull
Entries 88
Mean 154.6
Std Dev 0

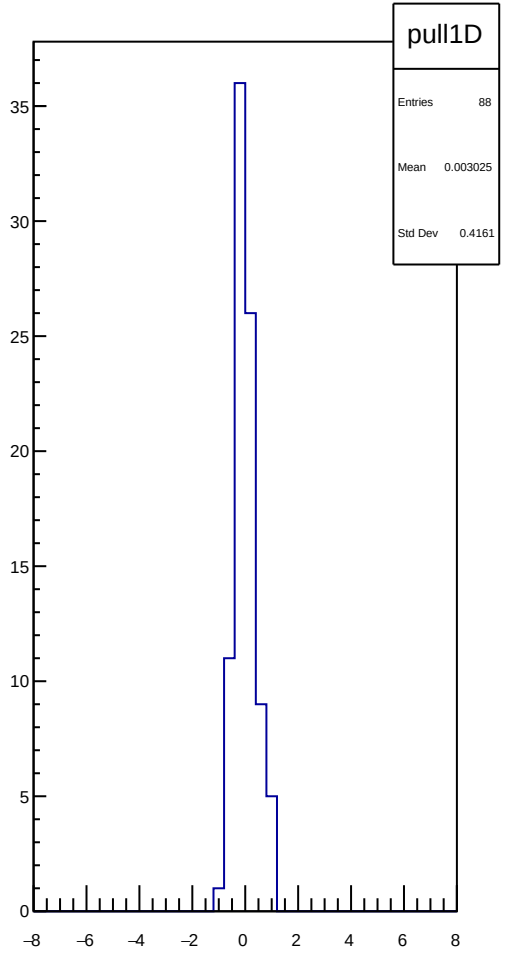

pull1D
Entries 88
Mean 0.002076
Std Dev 0.4192

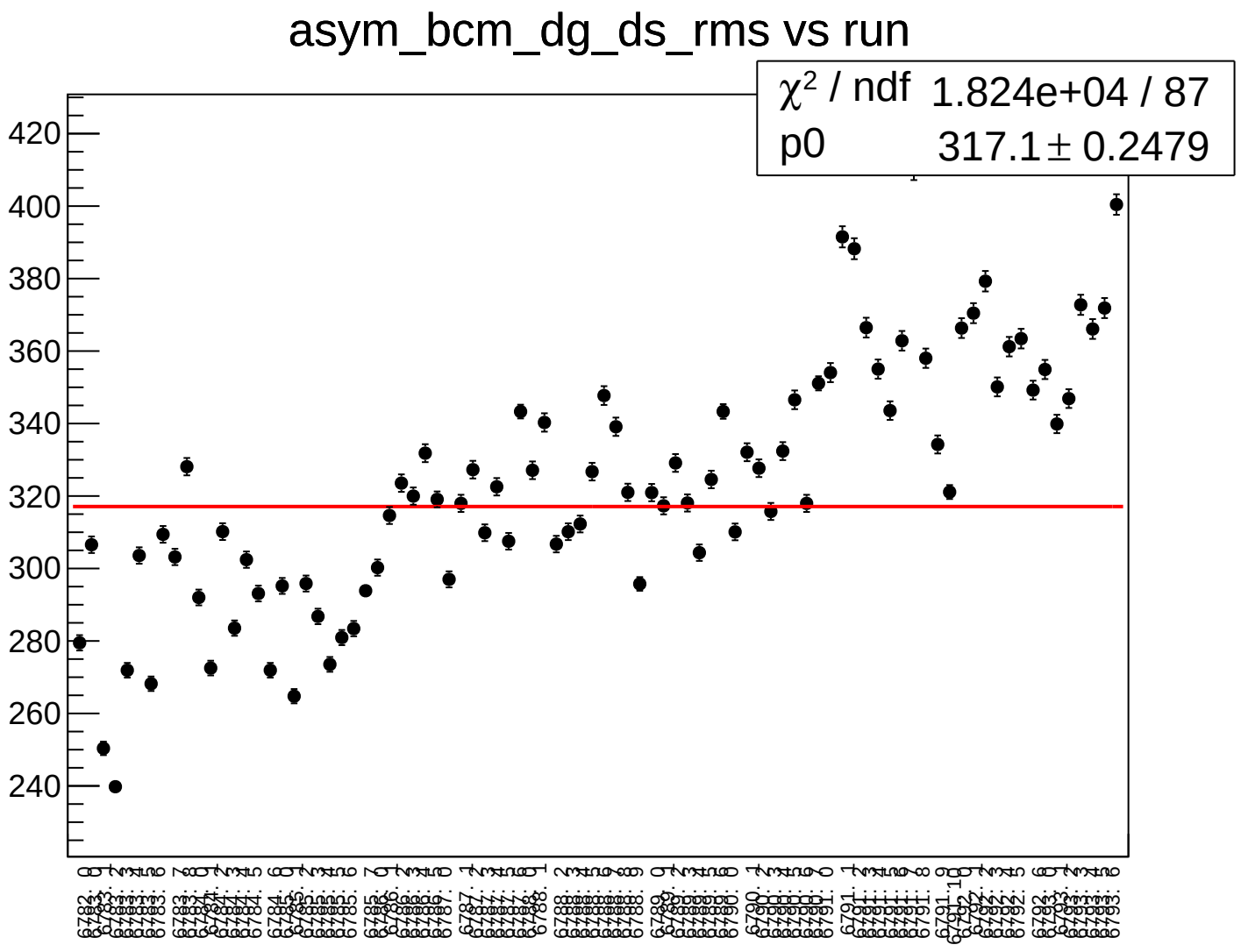

asym_bcm_an_us_rms vs run
χ² / ndf 1.819e+04 / 87
p0 315.7 ± 0.2468
420
400
380
360
340
320
300
280
260
240
220

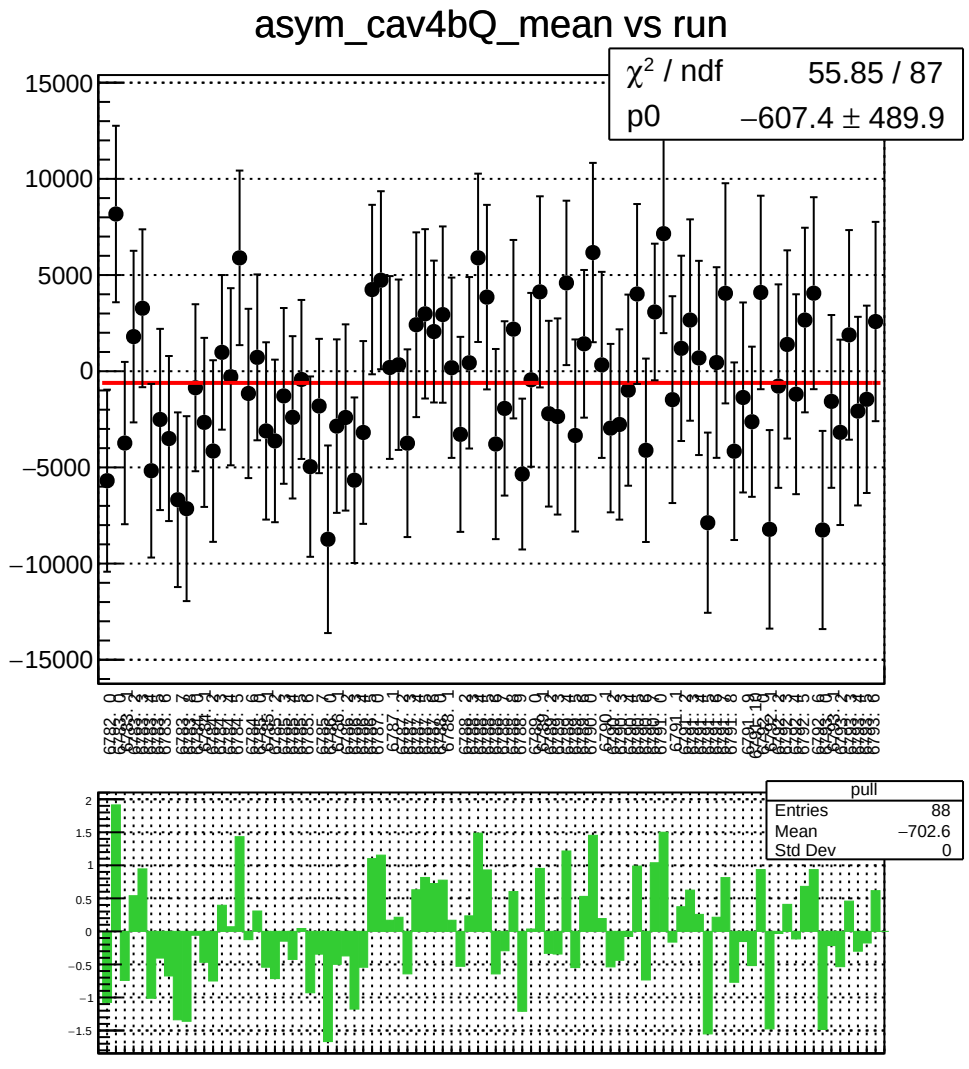

asym_bcm_dg_us_mean vs run
χ² / ndf 15.95 / 87
p0 562.5 ± 355
pull
Entries 88
Mean 119.2
Std Dev 0
pull1D
Entries 88
Mean 0.00346
Std Dev 0.4257

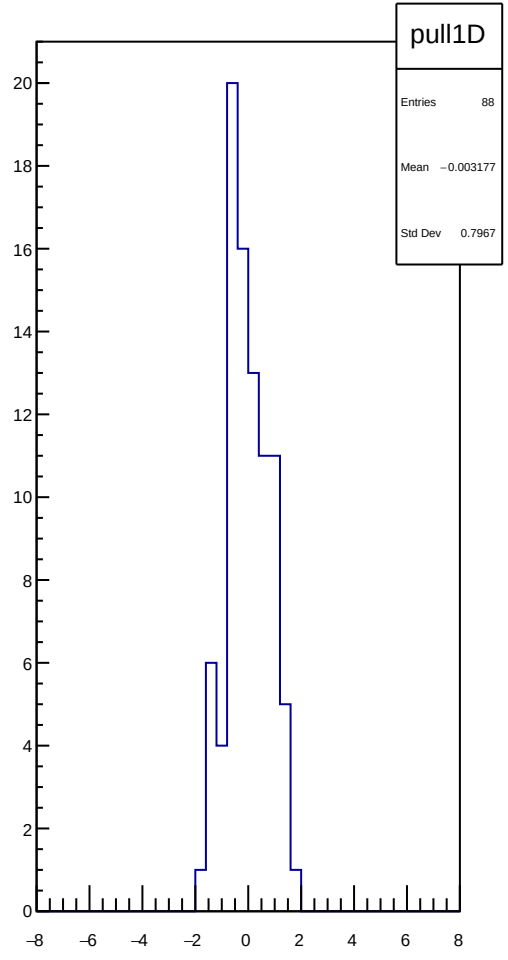

asym_bcm_dg_us_rms vs run
χ² / ndf 1.77e+04 / 87
p0 321.2 ± 0.251
420
400
380
360
340
320
300
280
260
240

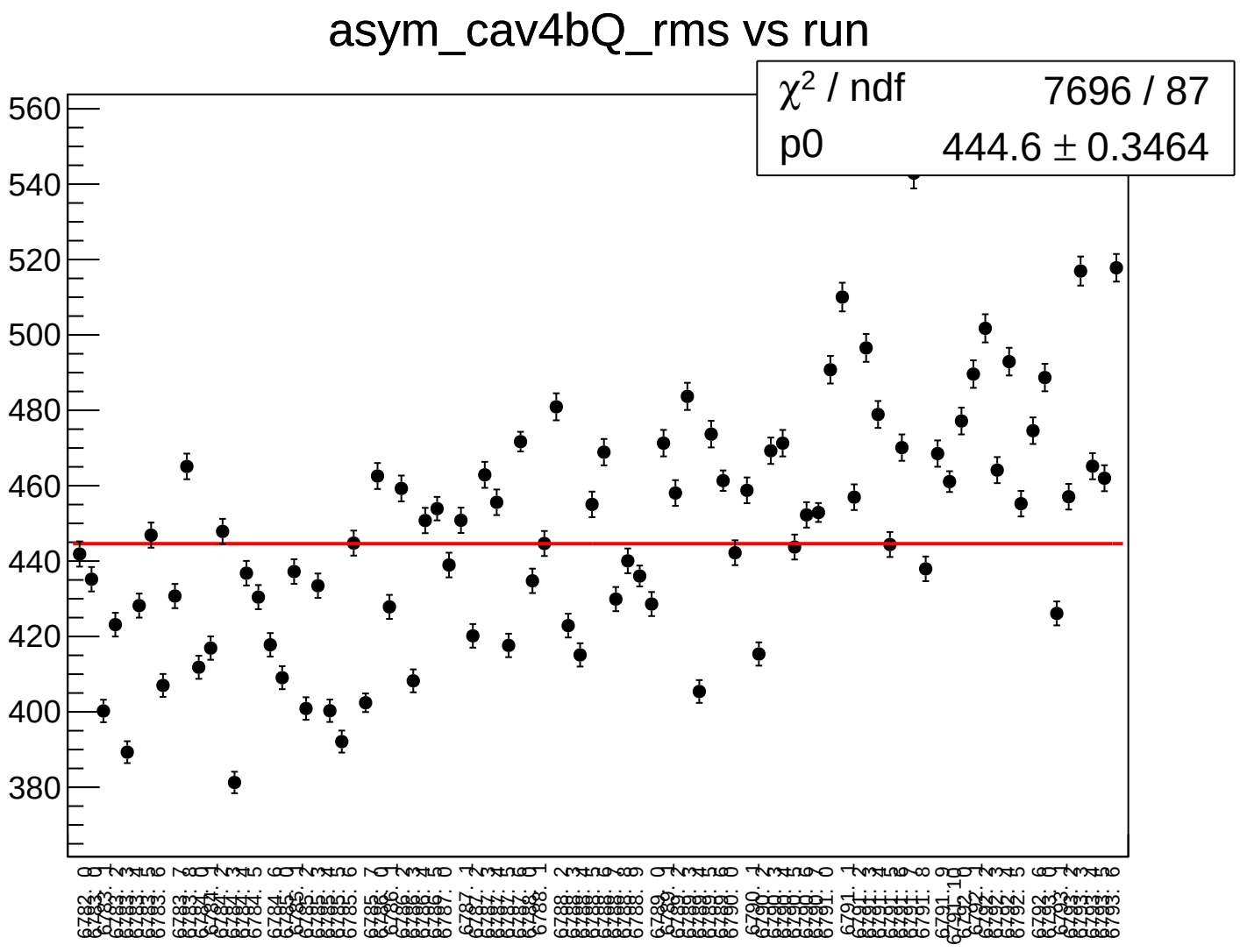

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.24 / 87
p0 446.7 ± 350.5
pull
Entries 88
Mean 218.1
Std Dev 0

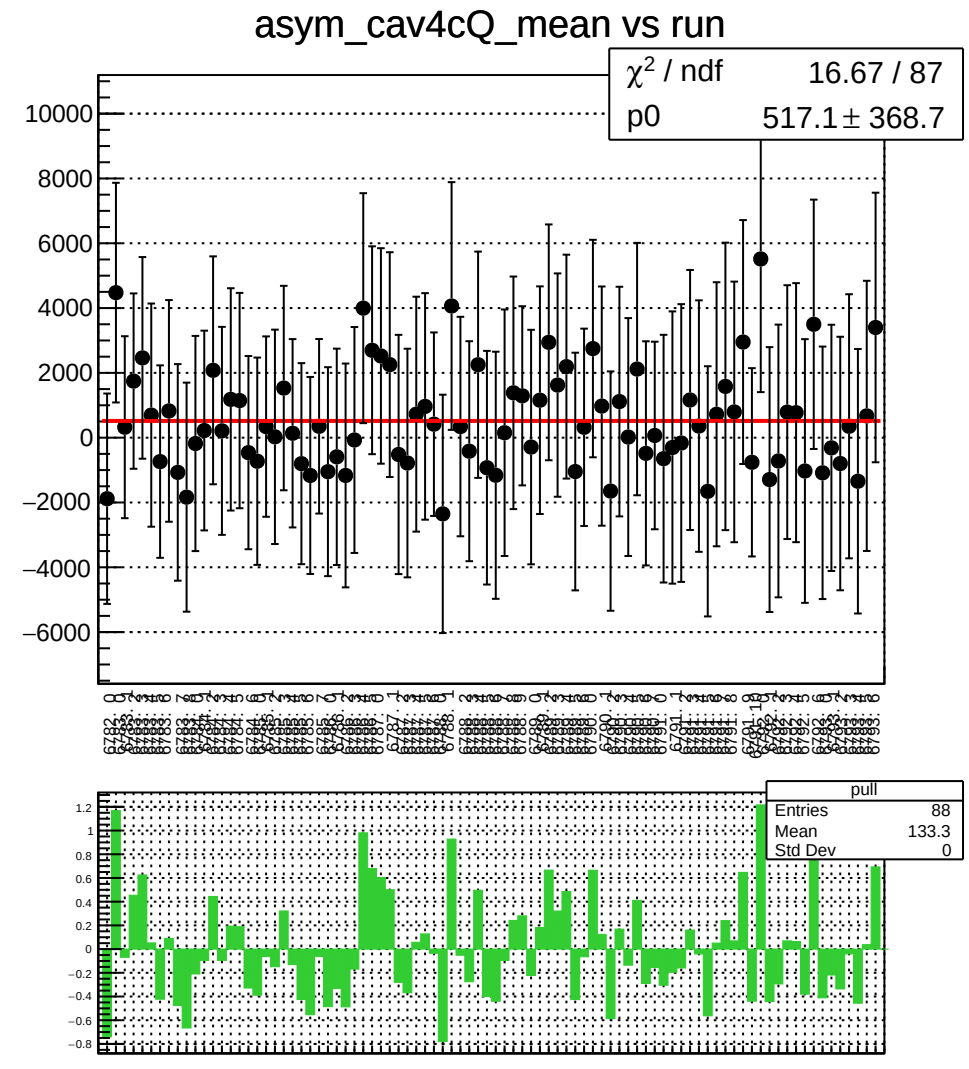

pull1D
Entries 88
Mean 0.003025
Std Dev 0.4161

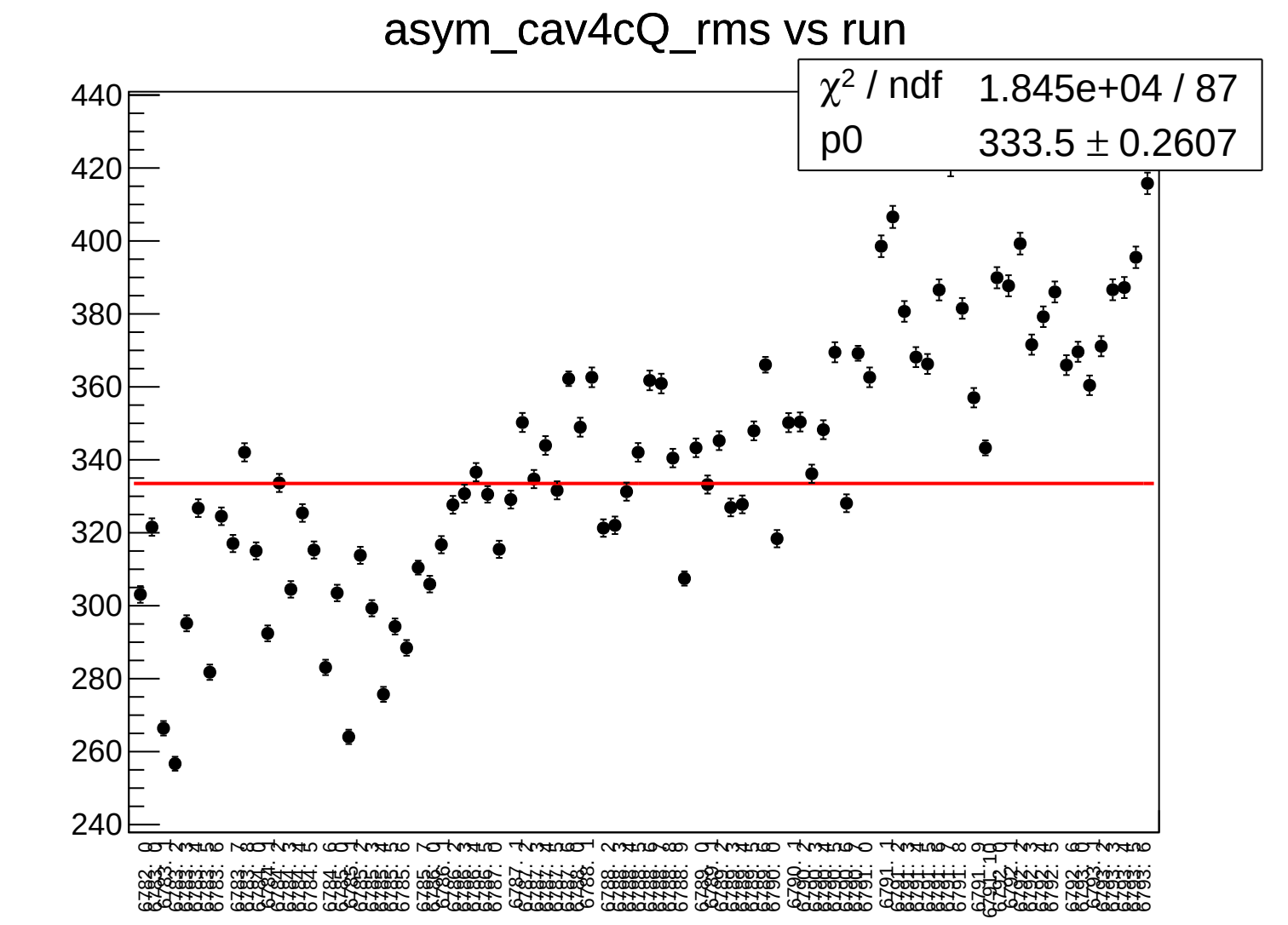

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.824e+04 / 87
p0 317.1 ± 0.2479
420
400
380
360
340
320
300
280
260
240

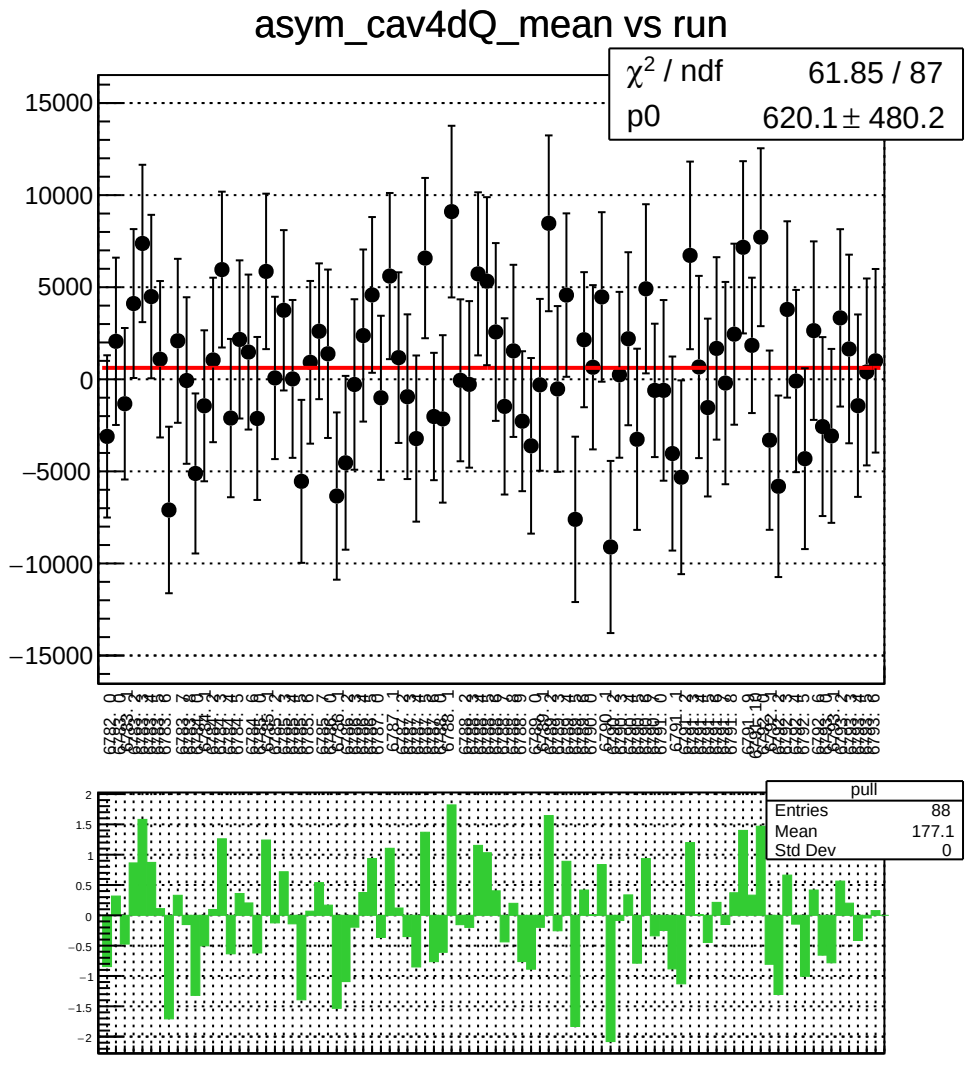

asym_cav4bQ_mean vs run
χ² / ndf 55.85 / 87
p0 −607.4 ± 489.9
pull
Entries 88
Mean −702.6
Std Dev 0

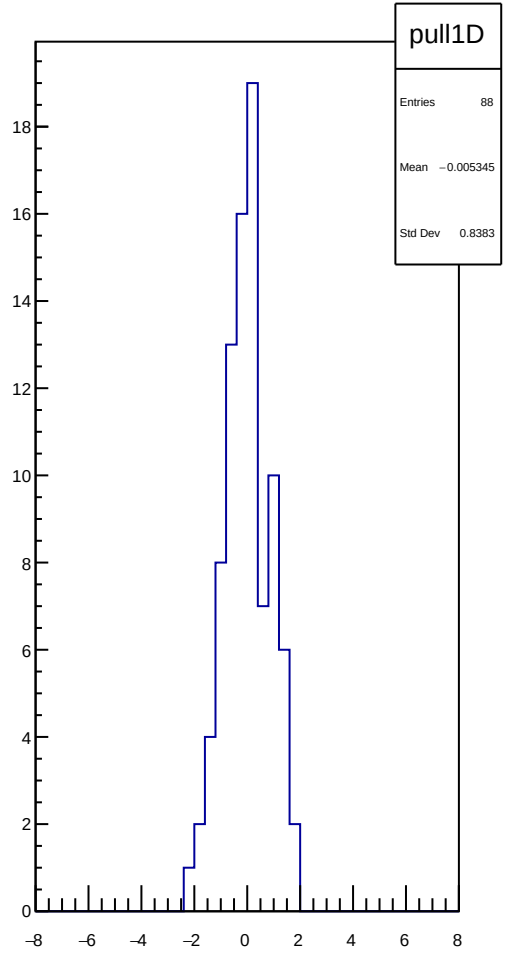

pull1D
Entries 88
Mean −0.003177
Std Dev 0.7967

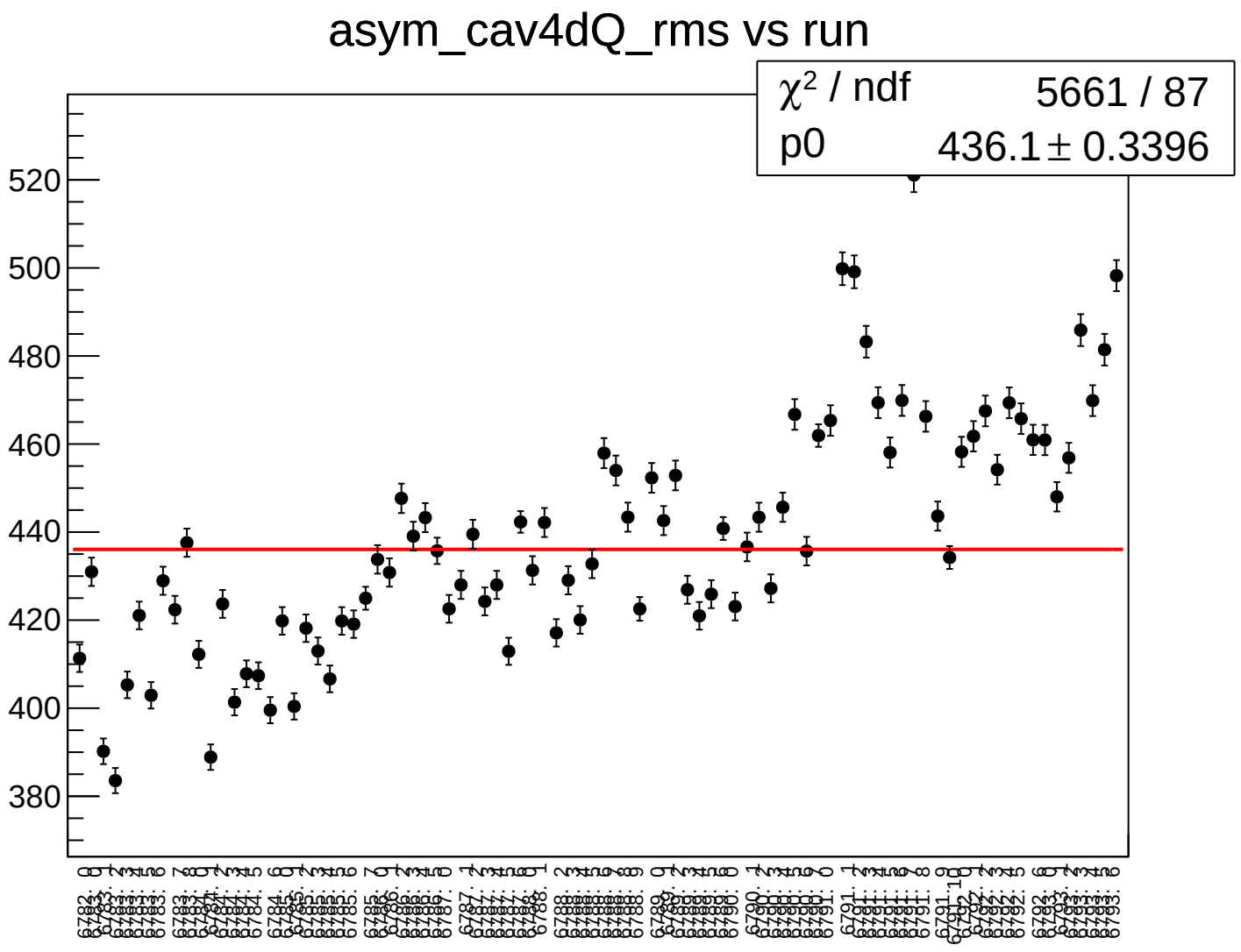

asym_cav4bQ_rms vs run
χ² / ndf 7696 / 87
p0 444.6 ± 0.3464
560
540
520
500
480
460
440
420
400
380

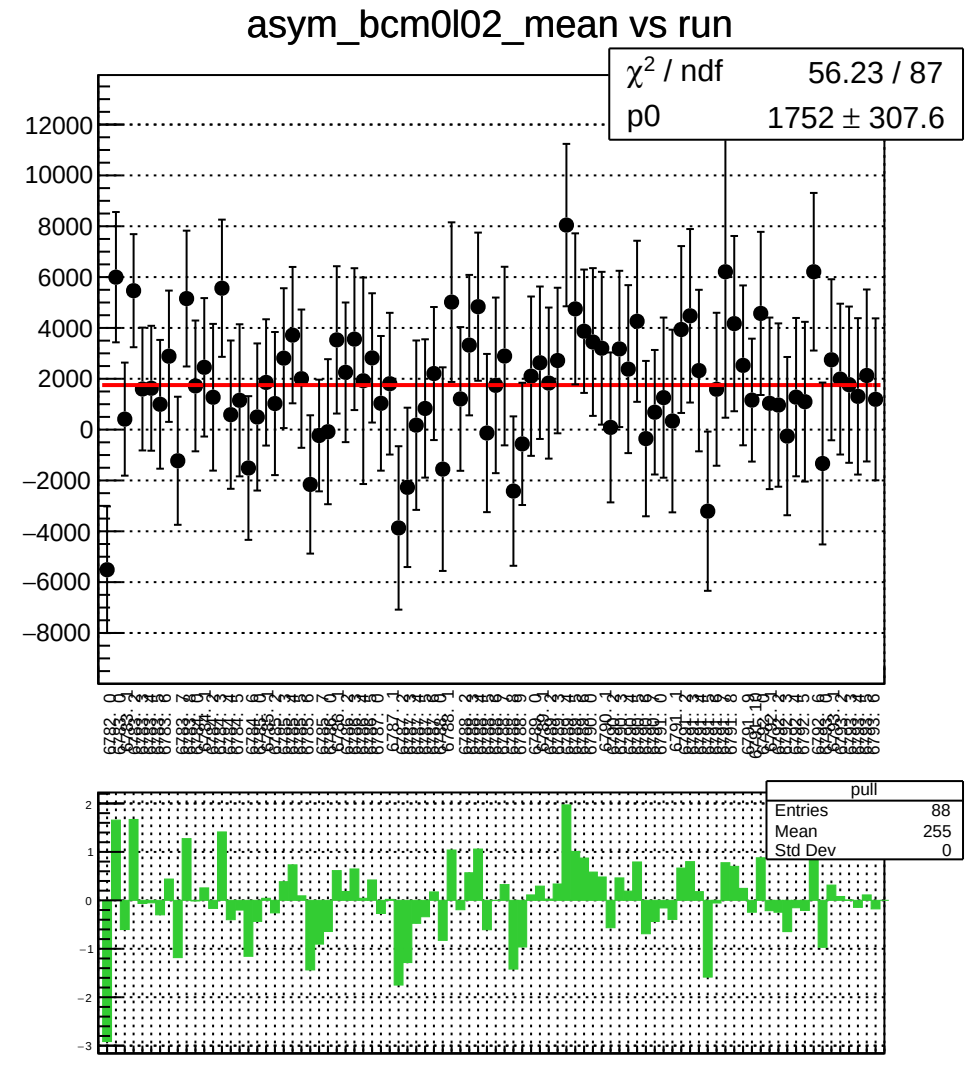

asym_cav4cQ_mean vs run
χ² / ndf 16.67 / 87
p0 517.1 ± 368.7
pull
Entries 88
Mean 133.3
Std Dev 0
pull1D
Entries 88
Mean 0.002806
Std Dev 0.4353

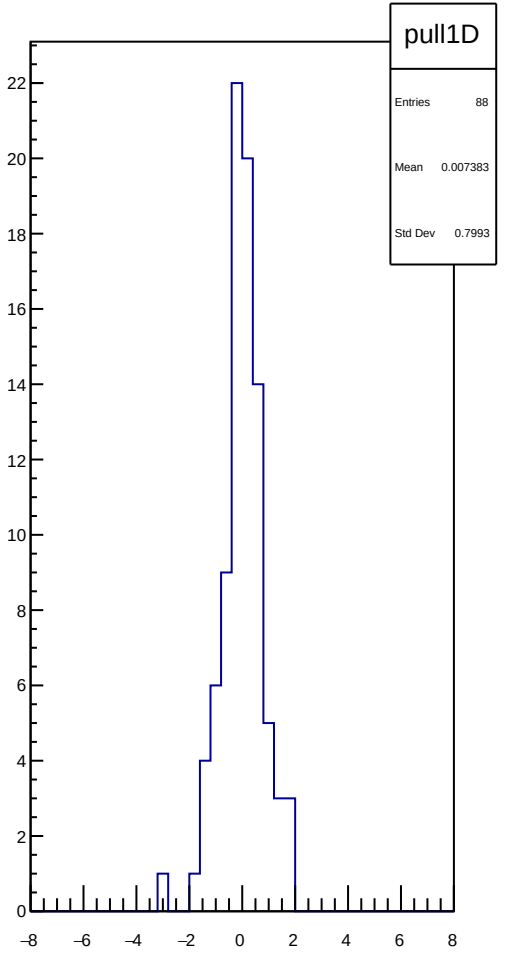

asym_cav4cQ_rms vs run
χ² / ndf 1.845e+04 / 87
p0 333.5 ± 0.2607
440
420
400
380
360
340
320
300
280
260
240

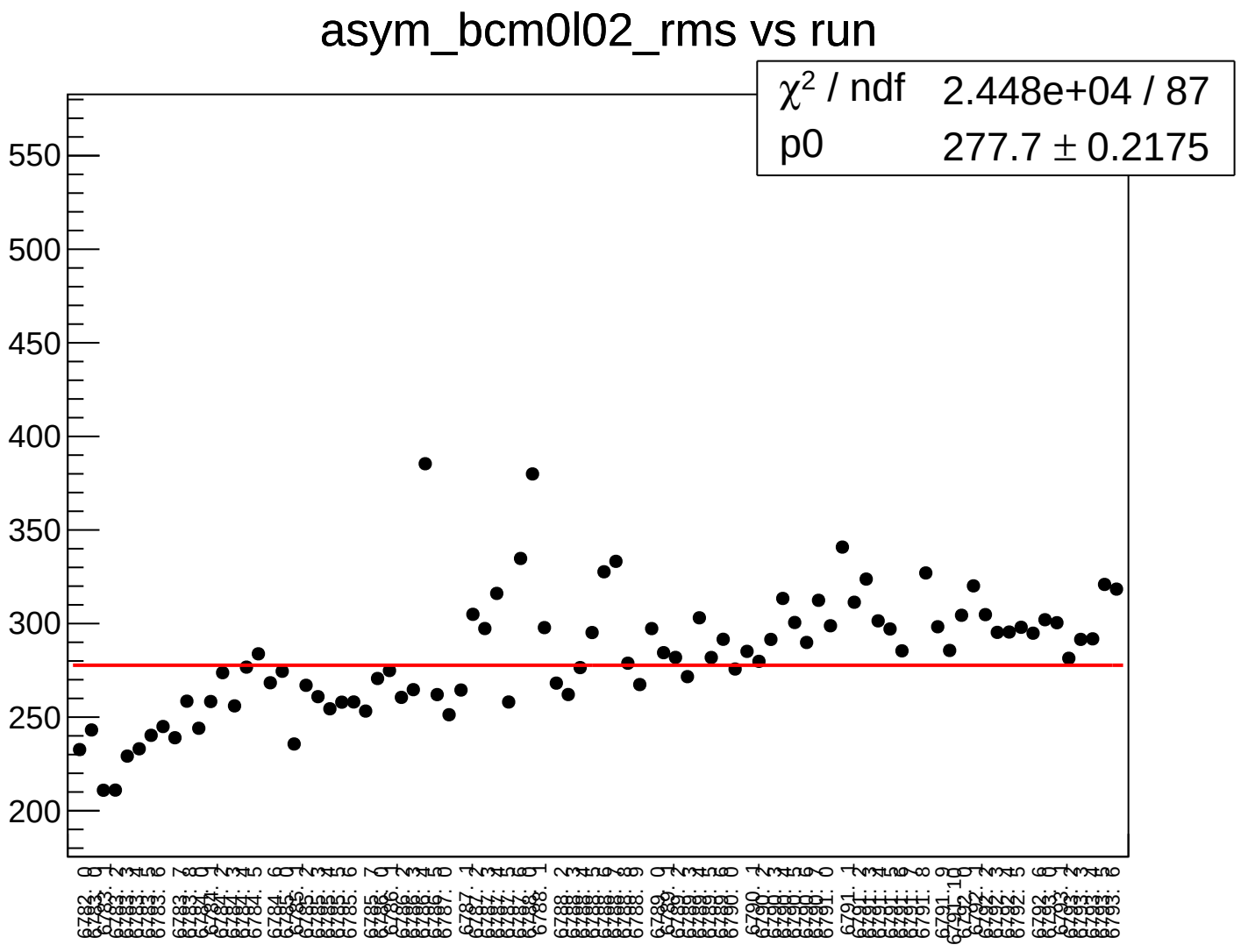

asym_cav4dQ_mean vs run
χ² / ndf 61.85 / 87
p0 620.1 ± 480.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 177.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

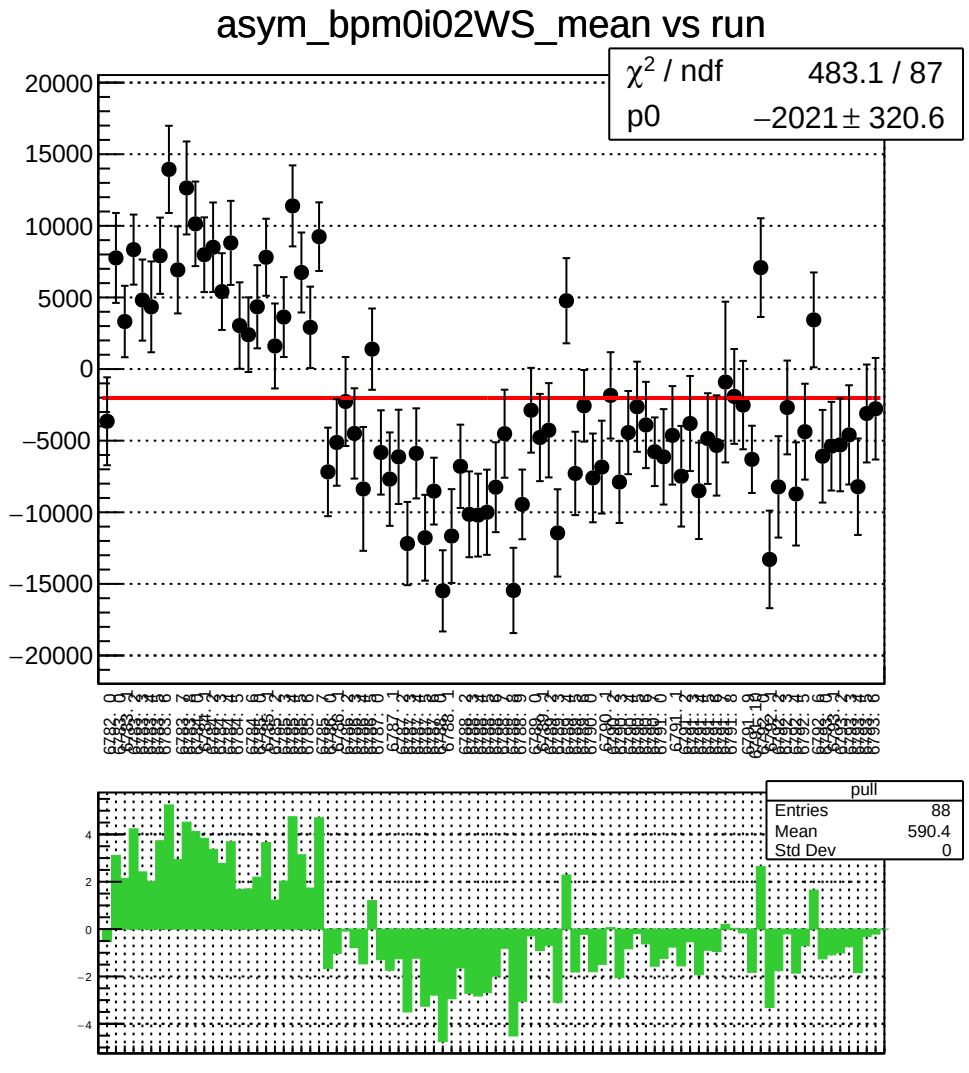

pull1D
Entries 88
Mean −0.005345
Std Dev 0.8383
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

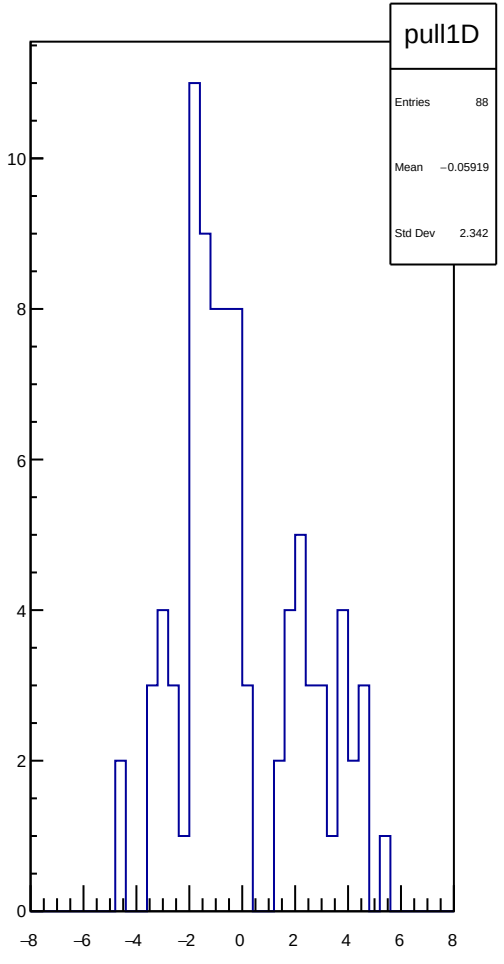

asym_cav4dQ_rms vs run
χ² / ndf 5661 / 87
p0 436.1 ± 0.3396
520
500
480
460
440
420
400
380

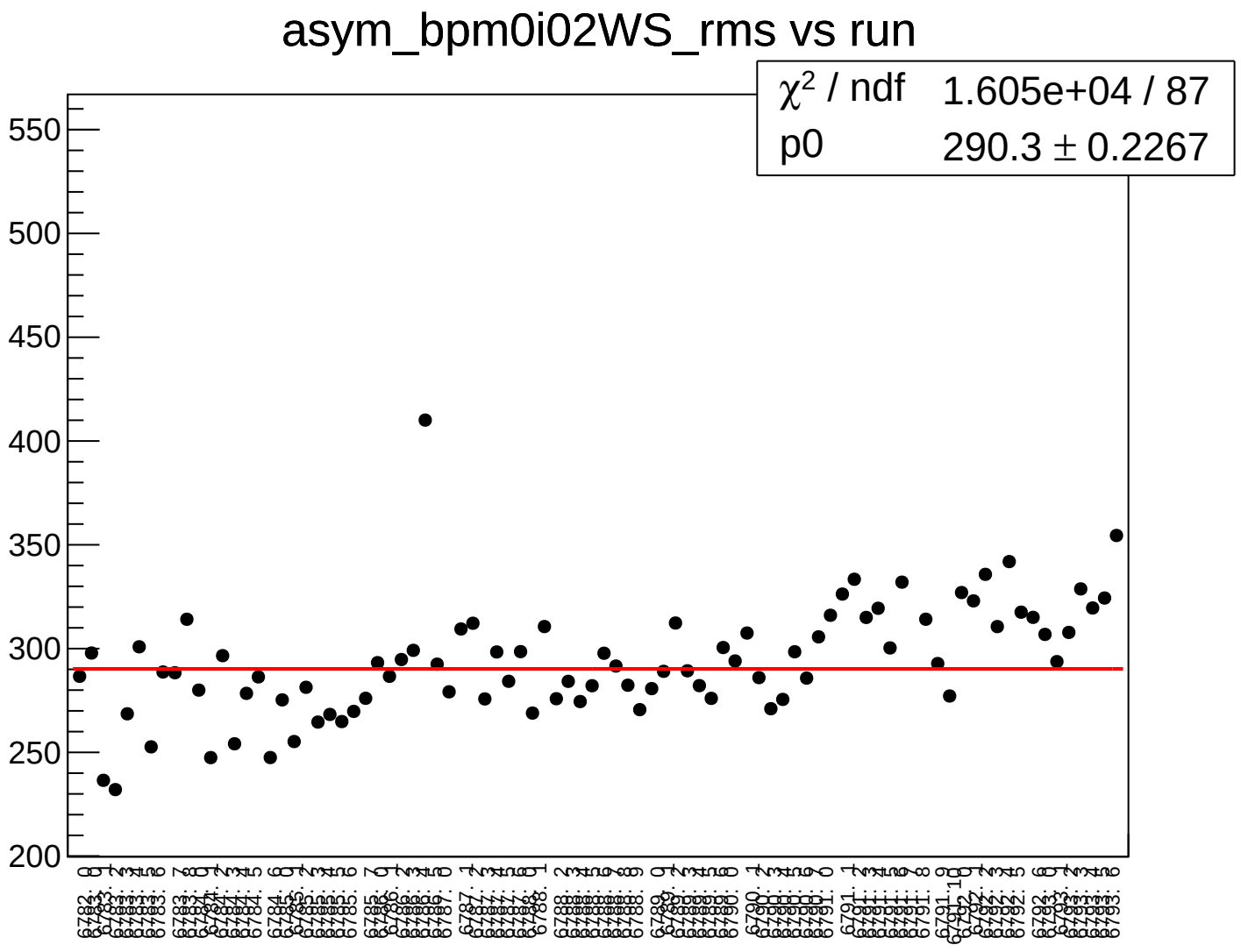

asym_bcm0l02_mean vs run
χ² / ndf 56.23 / 87
p0 1752 ± 307.6
pull
Entries 88
Mean 255
Std Dev 0

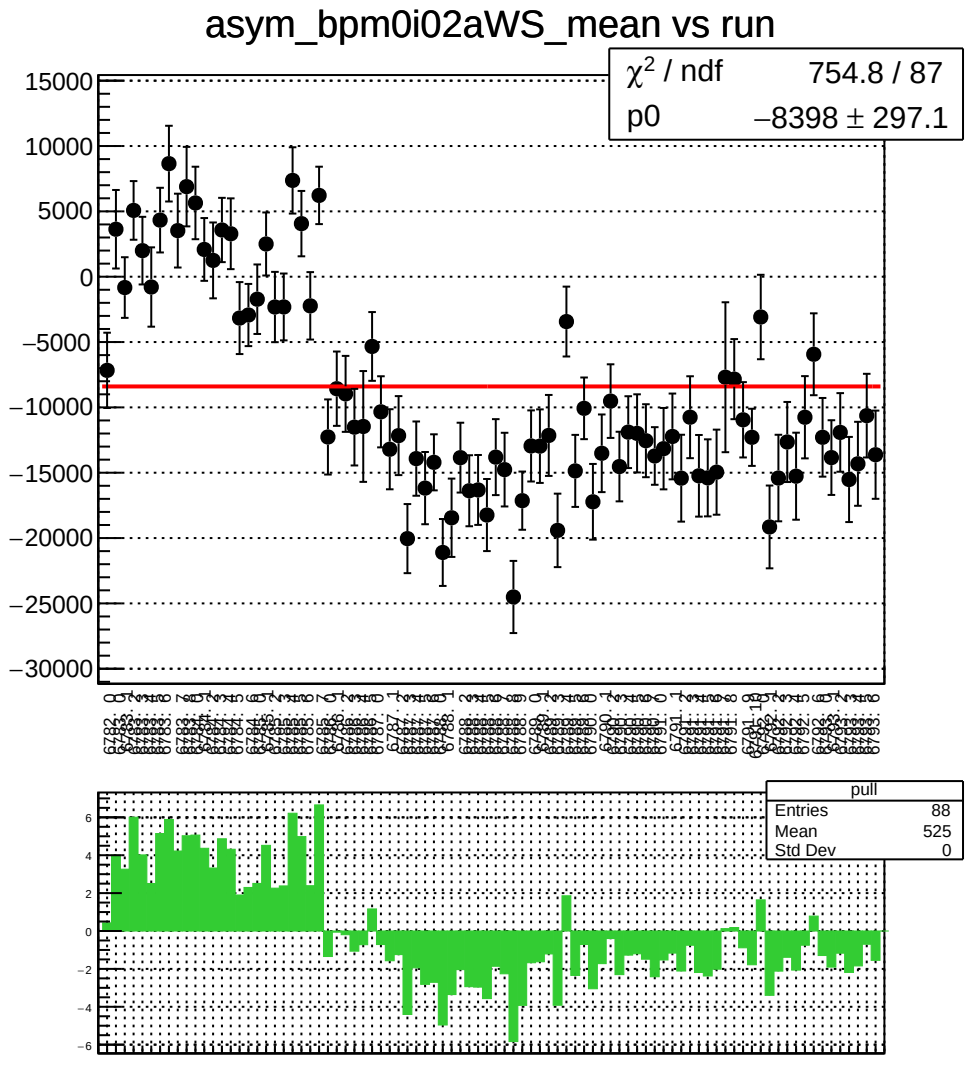

pull1D
Entries 88
Mean 0.007383
Std Dev 0.7993

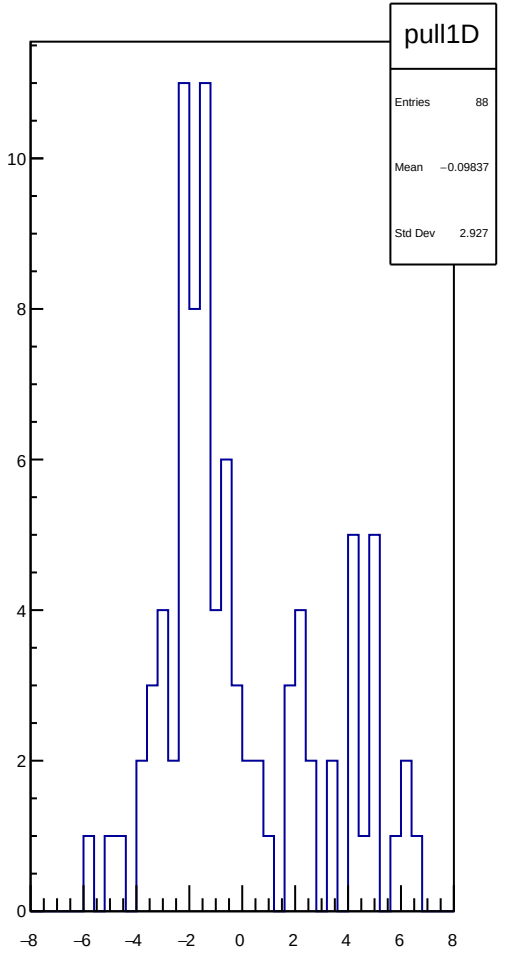

asym_bcm0l02_rms vs run
χ² / ndf 2.448e+04 / 87
p0 277.7 ± 0.2175
550
500
450
400
350
300
250
200

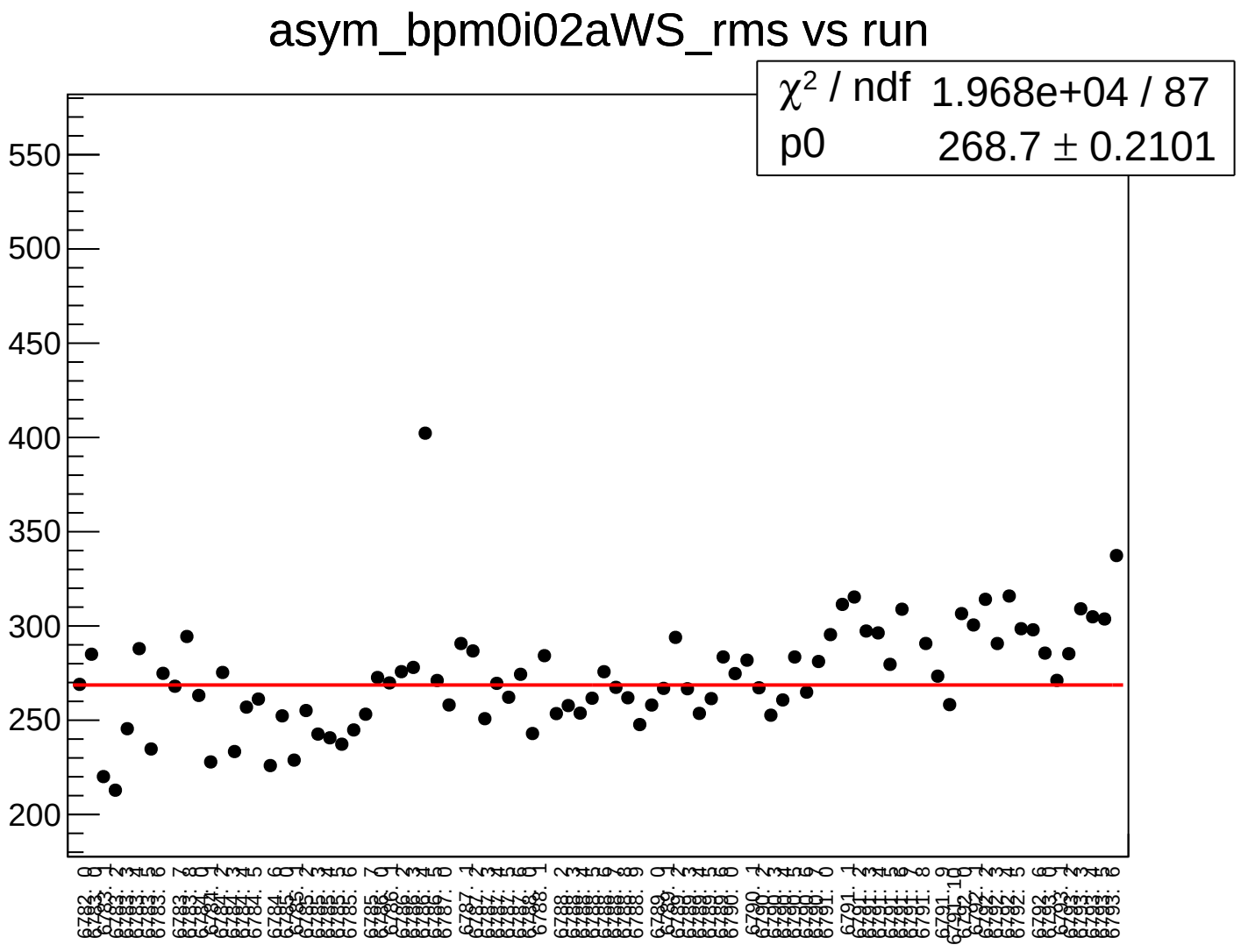

asym_bpm0i02WS_mean vs run
χ² / ndf 483.1 / 87
p0 −2021 ± 320.6
pull
Entries 88
Mean 590.4
Std Dev 0

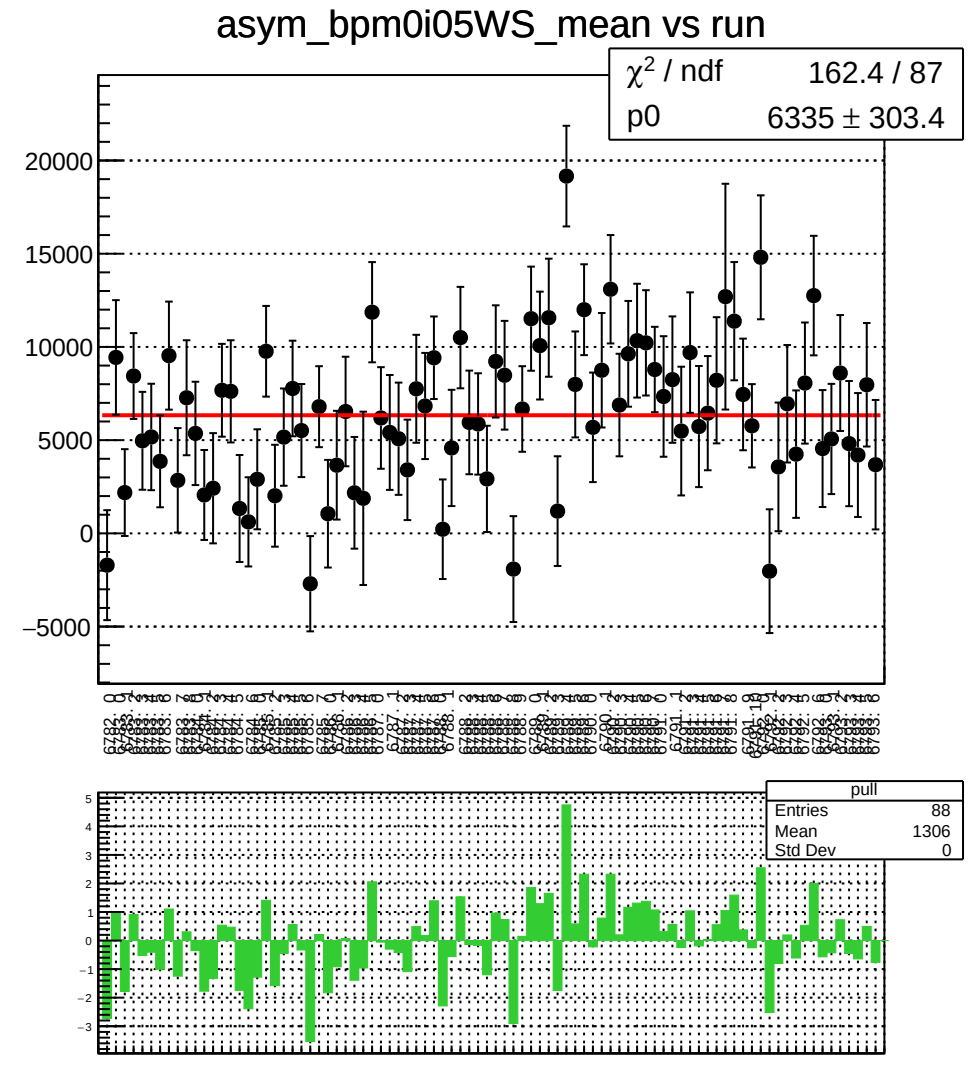

pull1D
Entries 88
Mean −0.05919
Std Dev 2.342

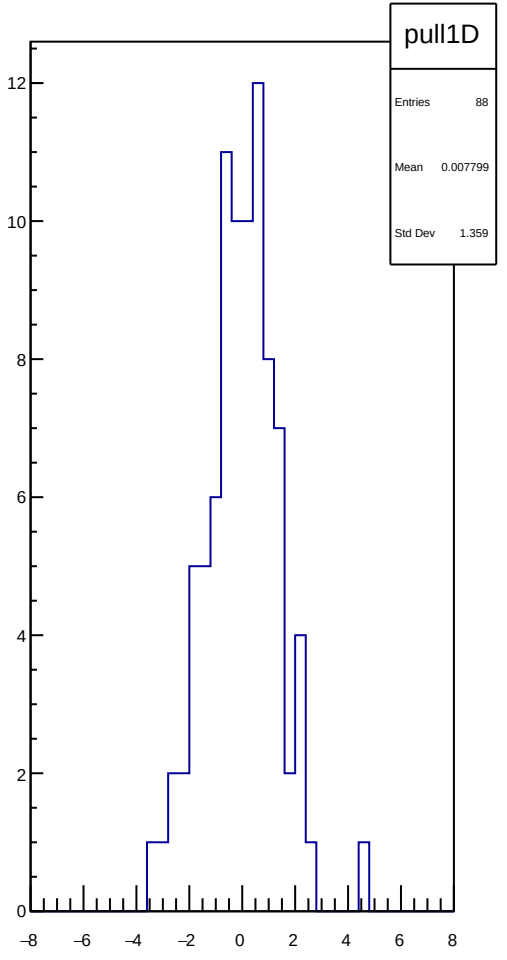

asym_bpm0i02WS_rms vs run
χ² / ndf 1.605e+04 / 87
p0 290.3 ± 0.2267
550
500
450
400
350
300
250
200

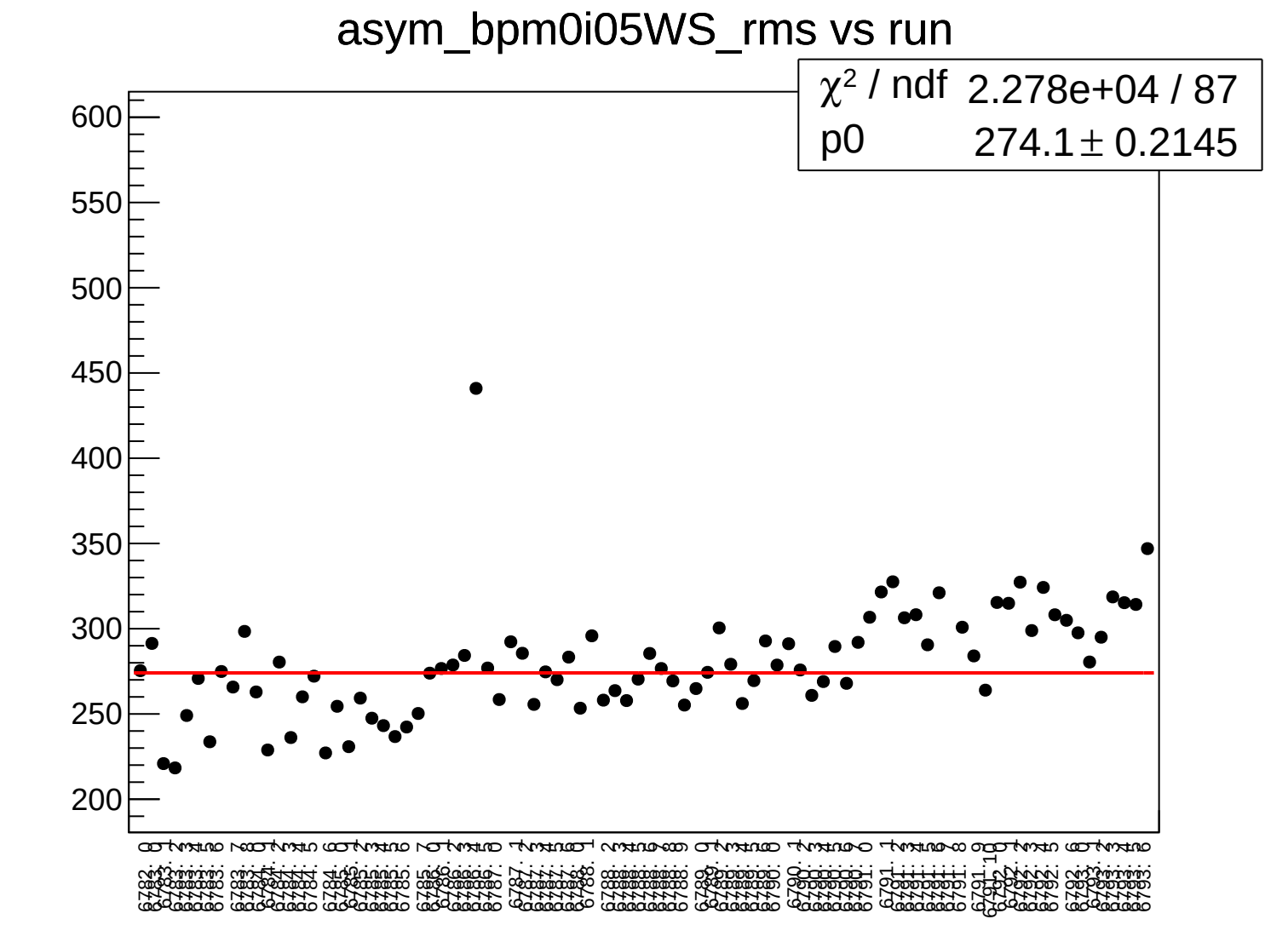

asym_bpm0i02aWS_mean vs run
χ² / ndf 754.8 / 87
p0 −8398 ± 297.1
pull
Entries 88
Mean 525
Std Dev 0

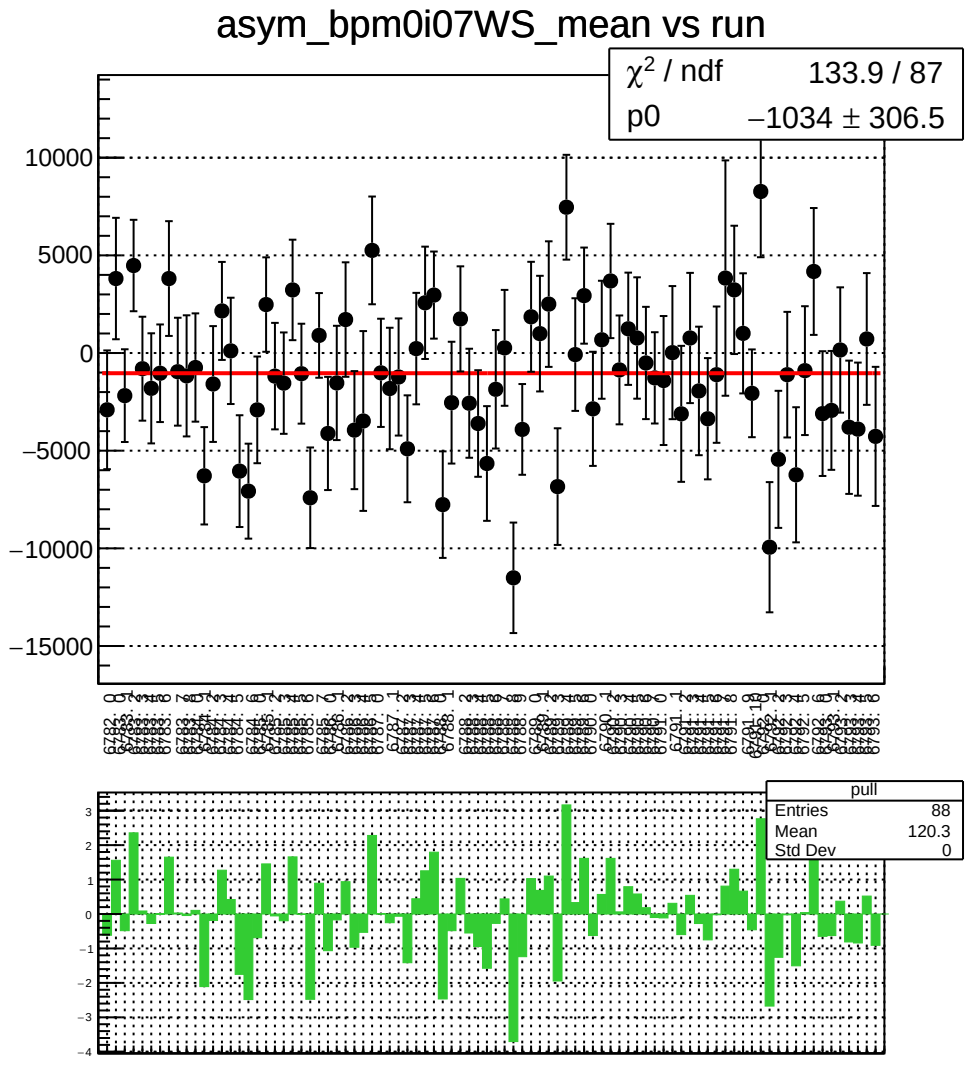

pull1D
Entries 88
Mean −0.09837
Std Dev 2.927

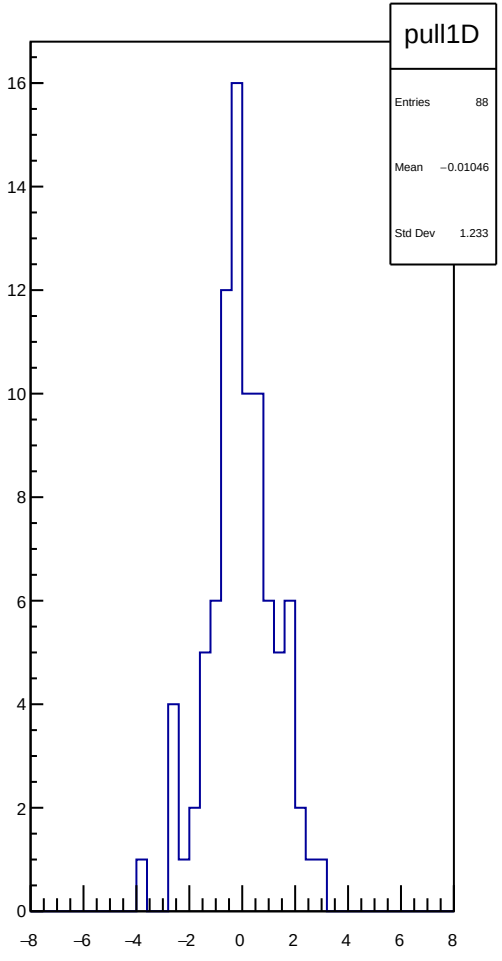

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.968e+04 / 87
p0 268.7 ± 0.2101
550
500
450
400
350
300
250
200

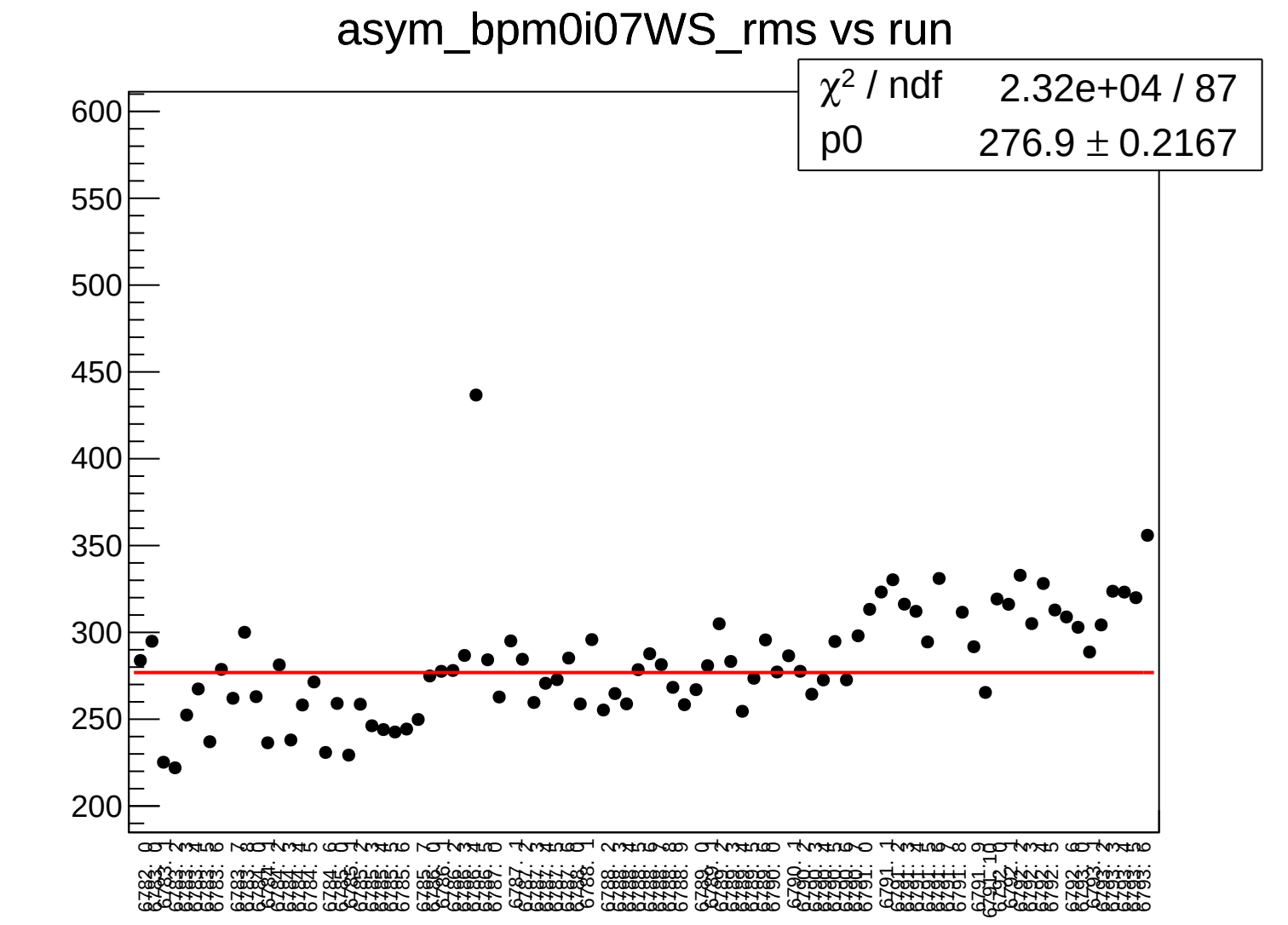

asym_bpm0i05WS_mean vs run
χ² / ndf 162.4 / 87
p0 6335 ± 303.4
20000
15000
10000
5000
0
−5000
pull
Entries 88
Mean 1306
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

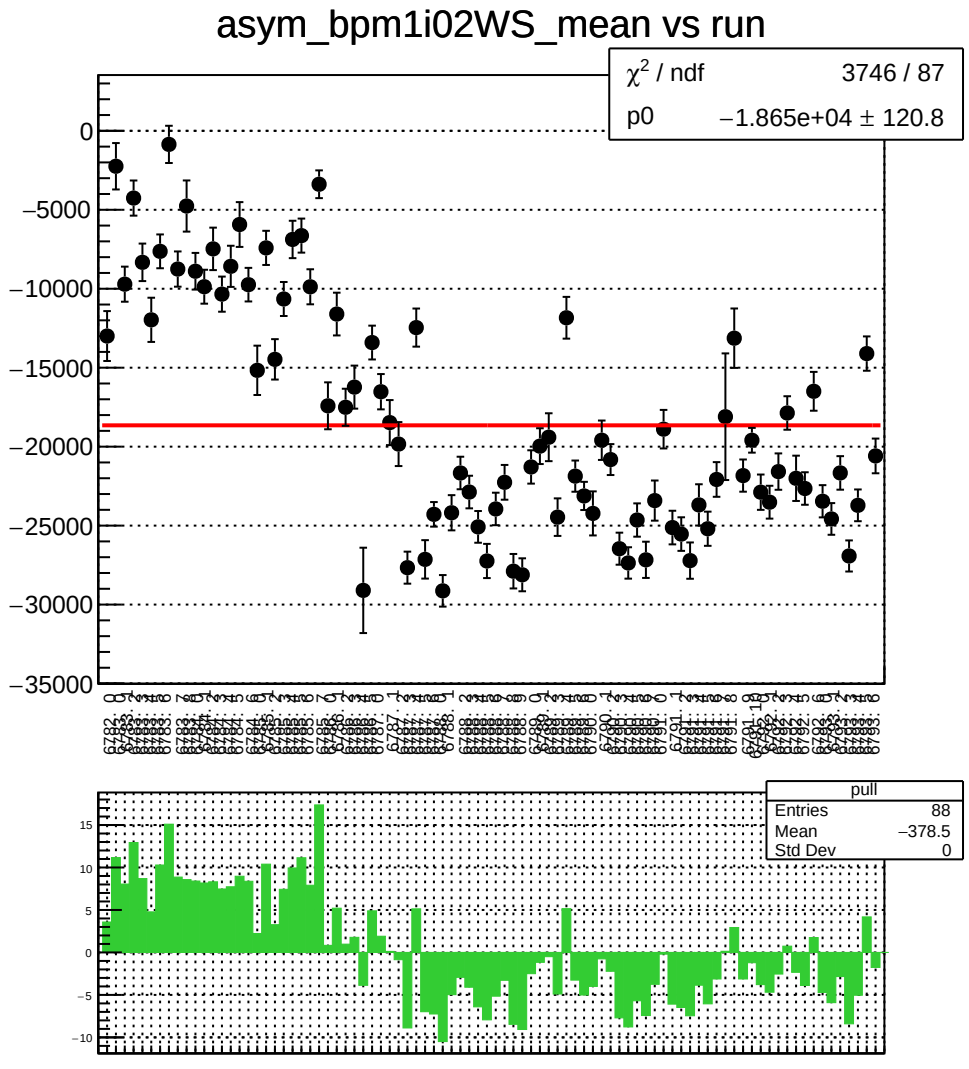

pull1D
Entries 88
Mean 0.007799
Std Dev 1.359
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

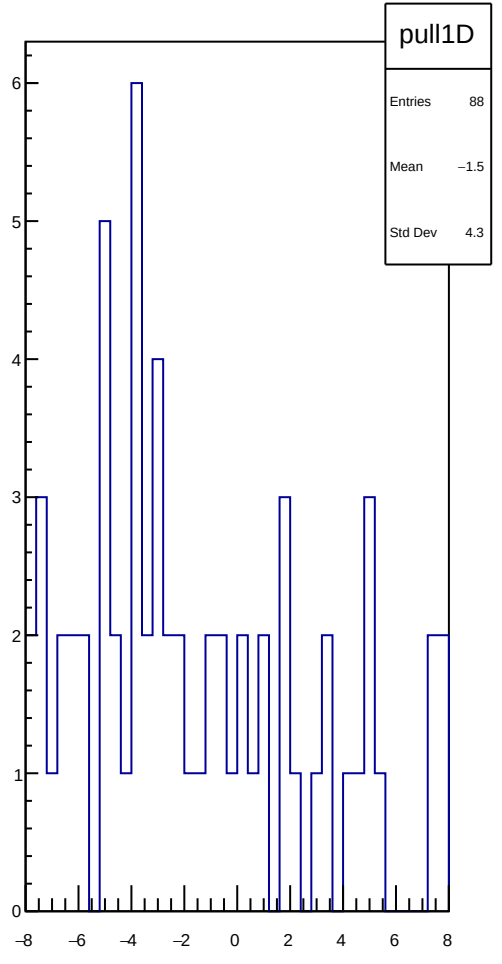

asym_bpm0i05WS_rms vs run
χ² / ndf 2.278e+04 / 87
p0 274.1 ± 0.2145
600
550
500
450
400
350
300
250
200

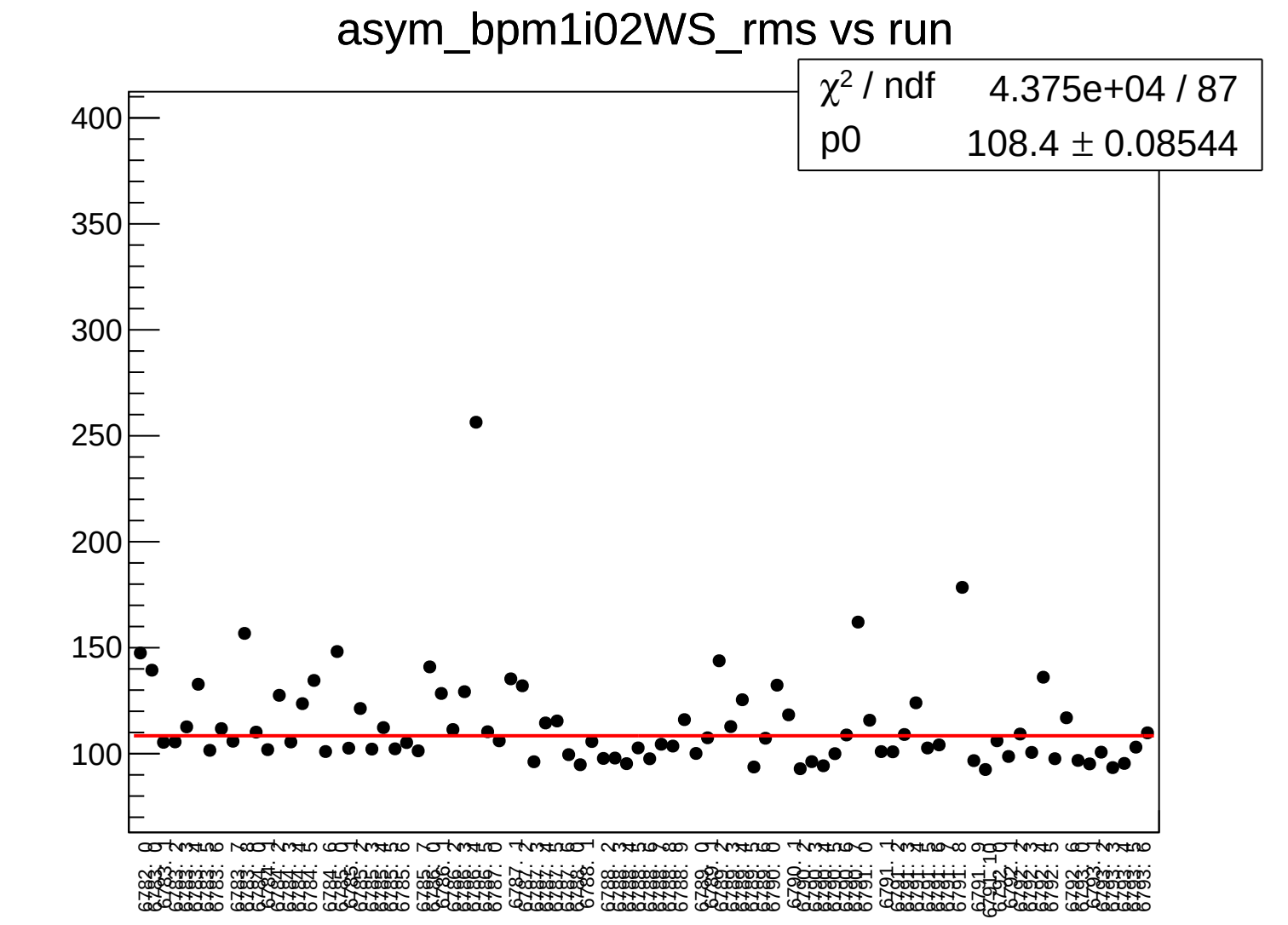

asym_bpm0i07WS_mean vs run
χ² / ndf 133.9 / 87
p0 −1034 ± 306.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 120.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4

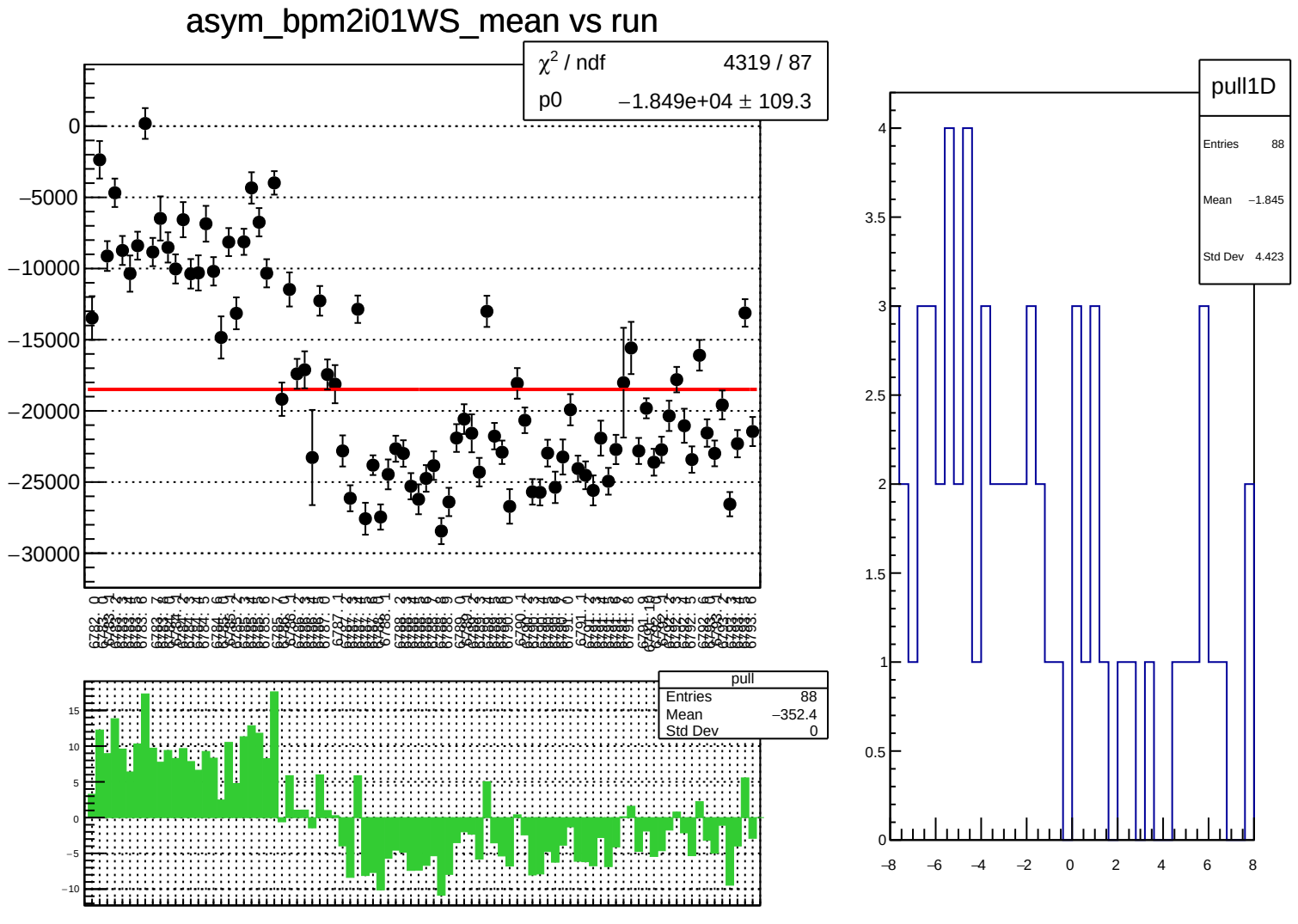

pull1D
Entries 88
Mean −0.01046
Std Dev 1.233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

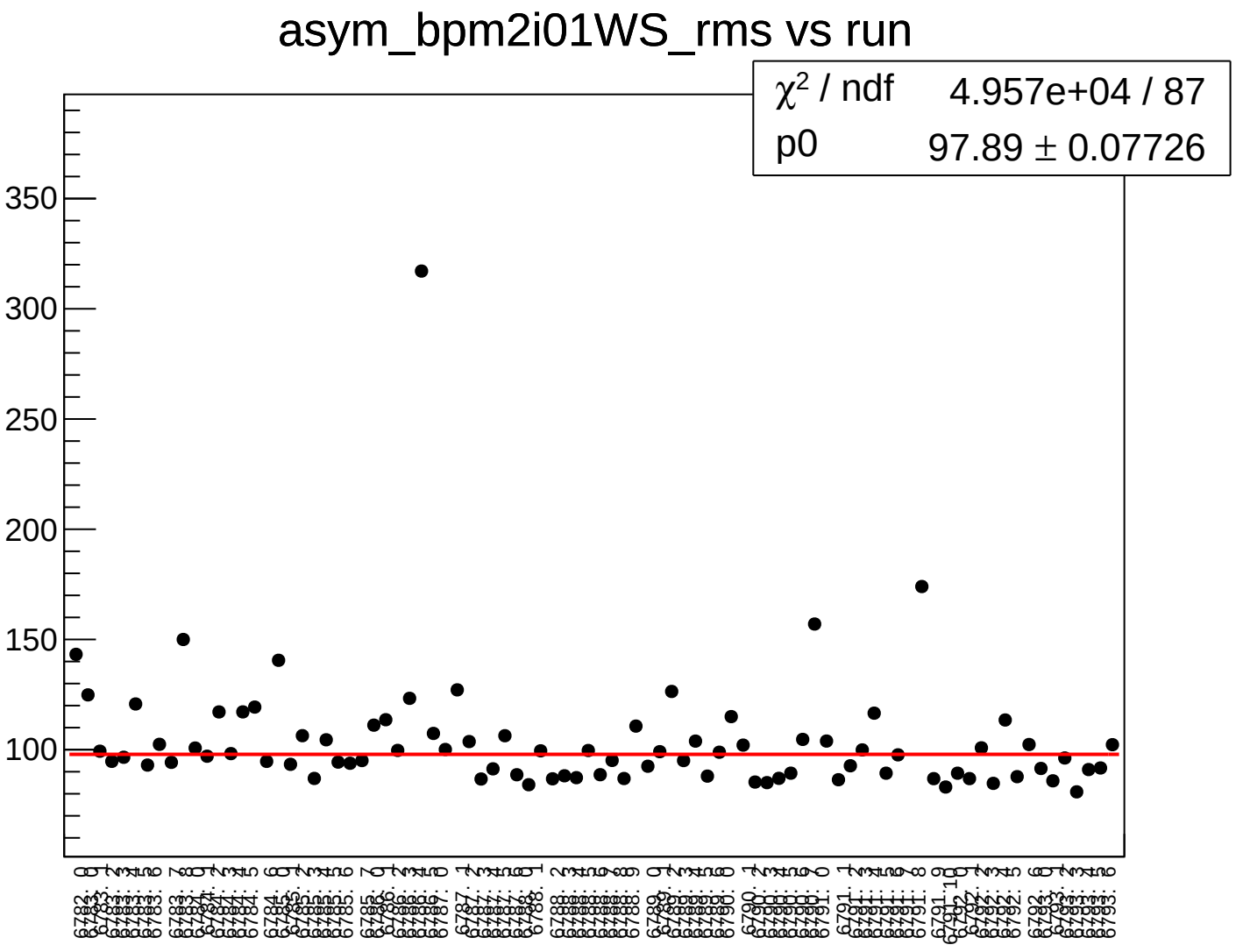

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.32e+04 / 87
p0 276.9 ± 0.2167
600
550
500
450
400
350
300
250
200

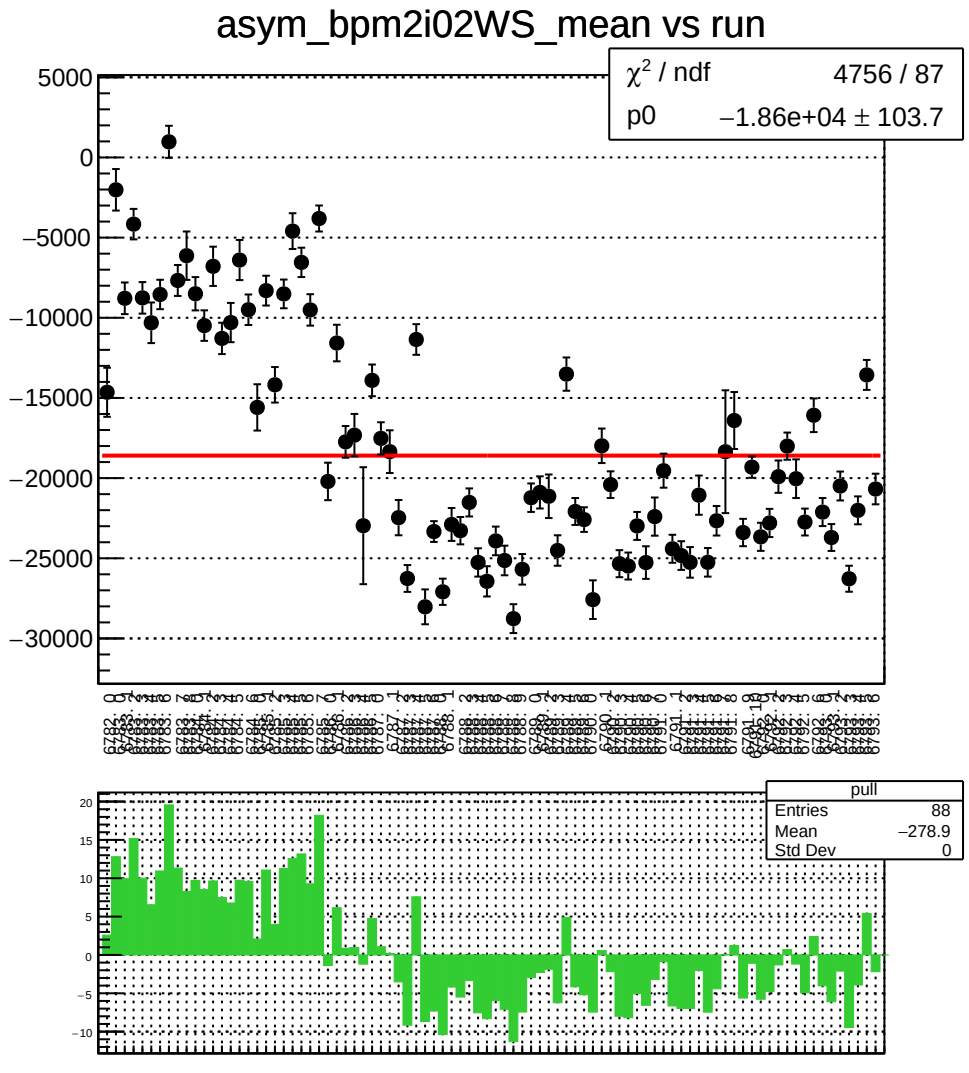

asym_bpm1i02WS_mean vs run
χ² / ndf 3746 / 87
p0 −1.865e+04 ± 120.8
pull
Entries 88
Mean −378.5
Std Dev 0

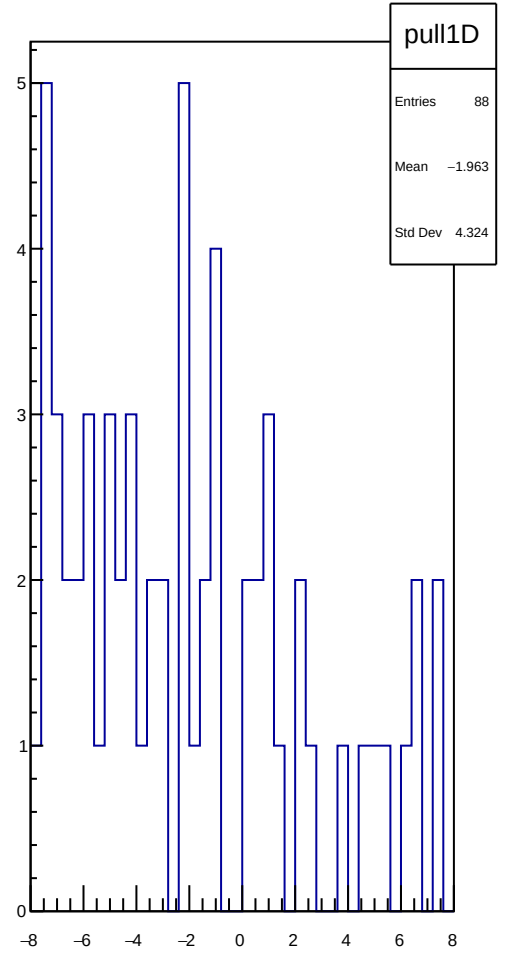

pull1D
Entries 88
Mean −1.5
Std Dev 4.3

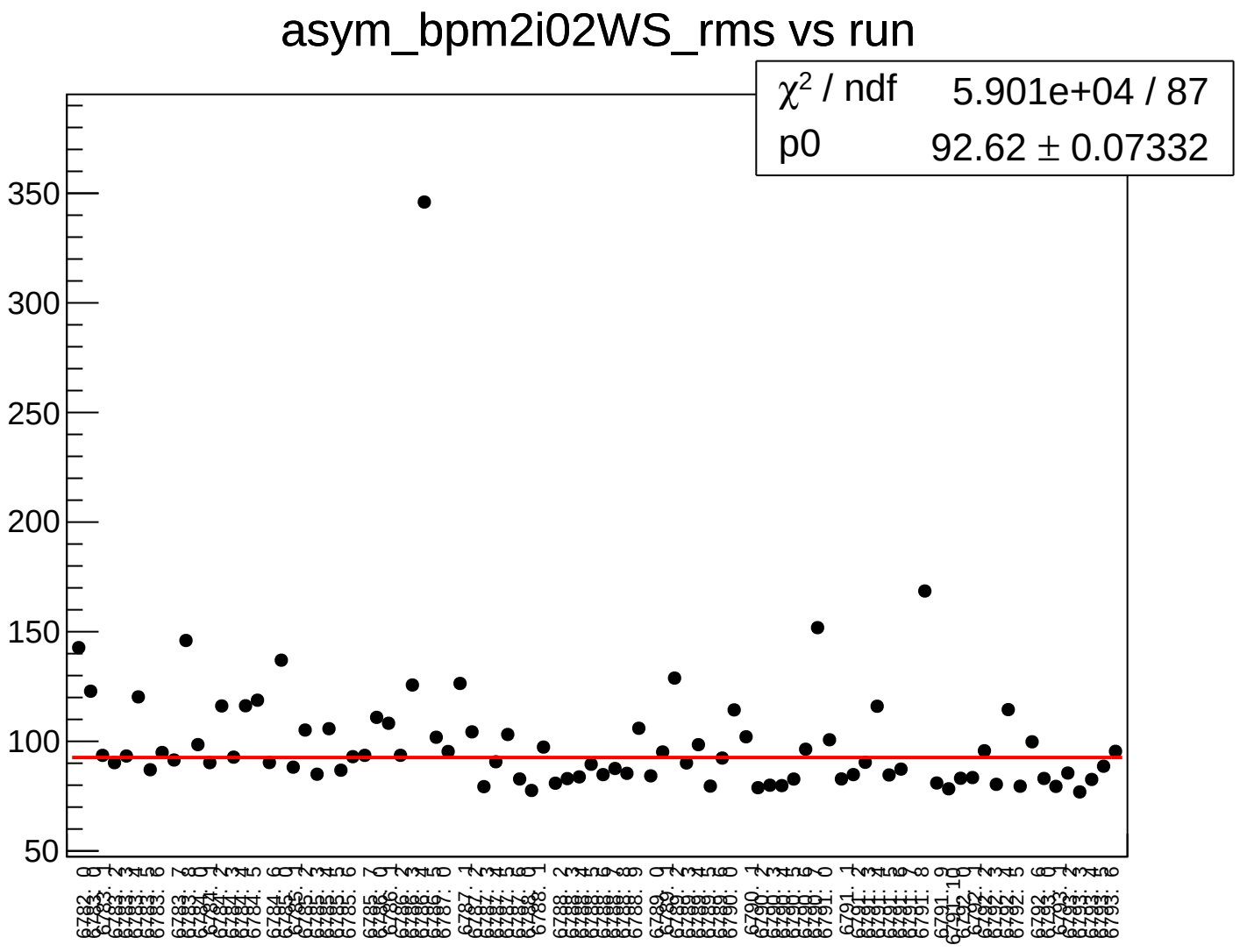

asym_bpm1i02WS_rms vs run
χ² / ndf 4.375e+04 / 87
p0 108.4 ± 0.08544
400
350
300
250
200
150
100

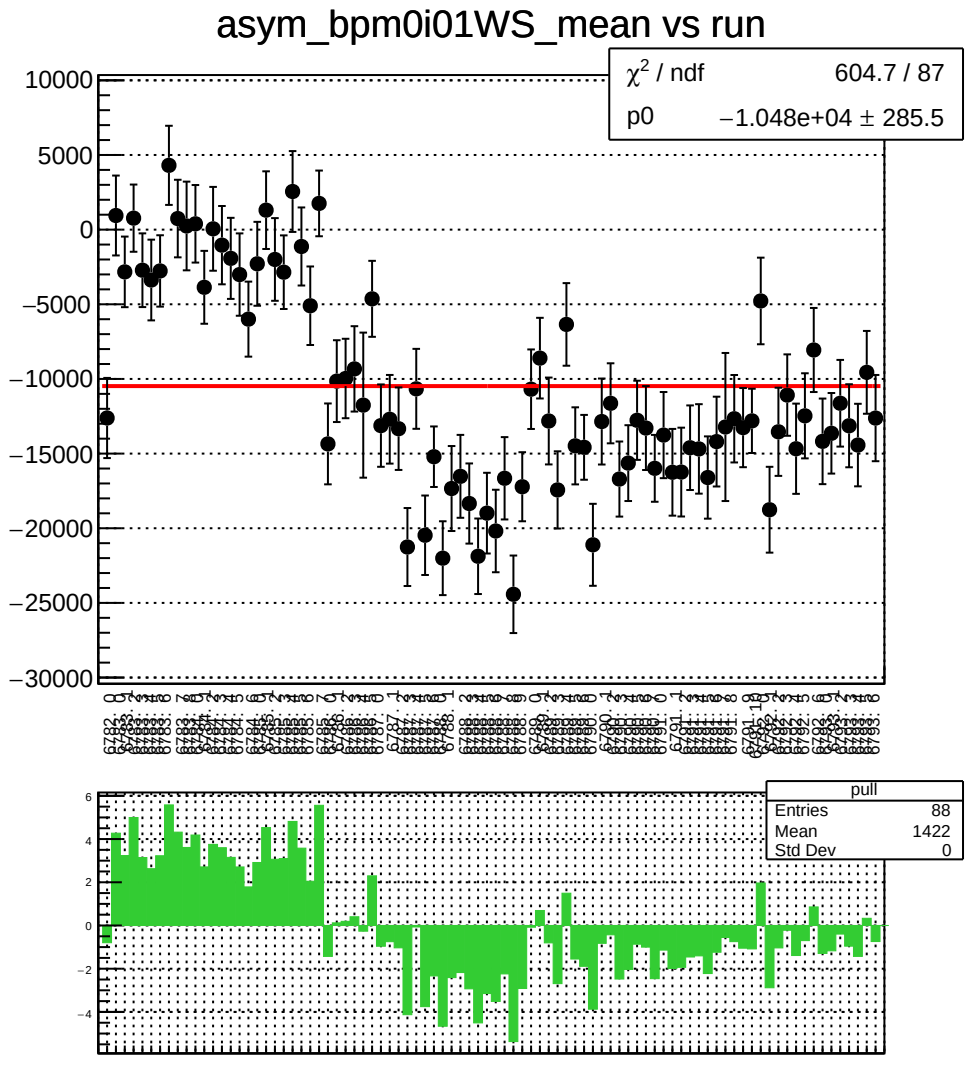

asym_bpm2i01WS_mean vs run
χ² / ndf 4319 / 87
p0 −1.849e+04 ± 109.3
0
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 88
Mean −352.4
Std Dev 0
15
10
5
0
−5
−10
pull1D
Entries 88
Mean −1.845
Std Dev 4.423
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

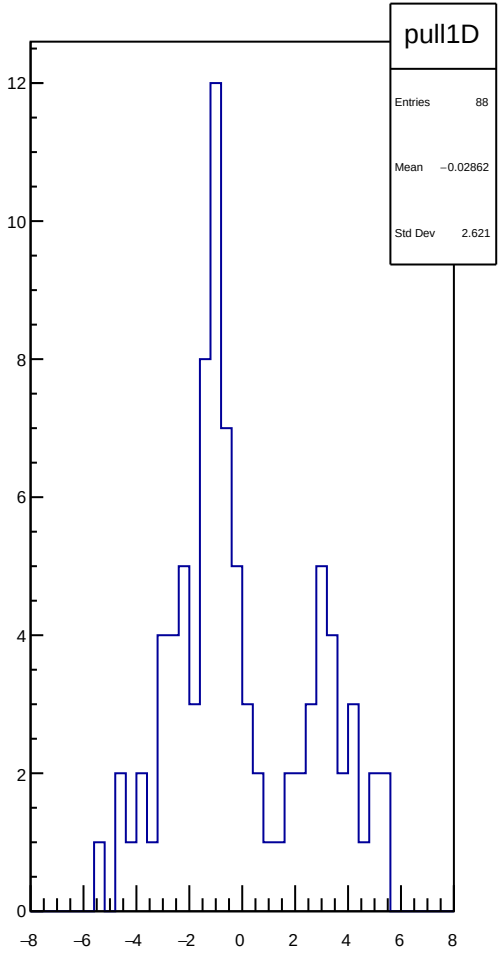

asym_bpm2i01WS_rms vs run
χ^2 / ndf 4.957e+04 / 87
p0 97.89 ± 0.07726
350
300
250
200
150
100

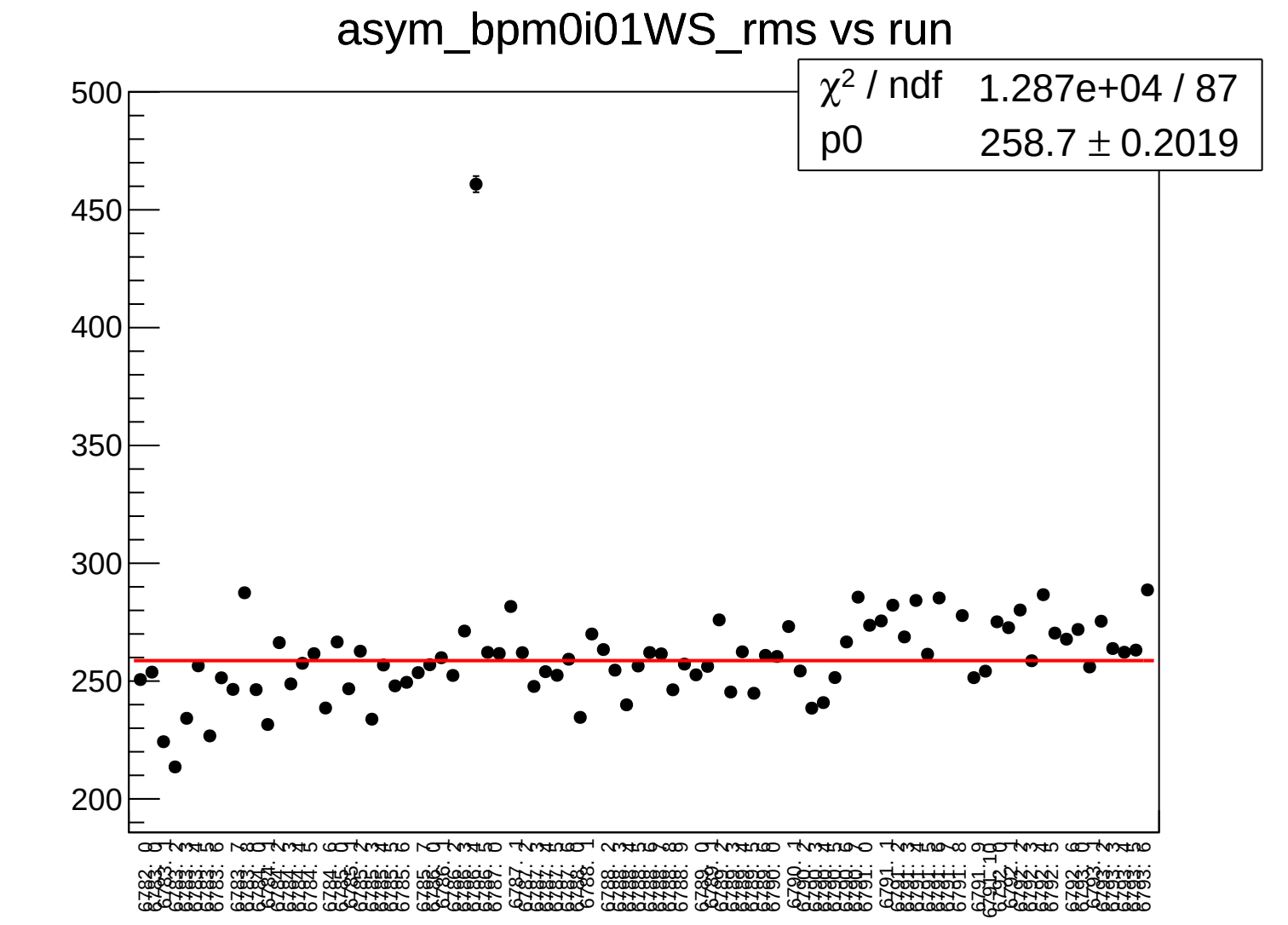

asym_bpm2i02WS_mean vs run
χ² / ndf 4756 / 87
p0 −1.86e+04 ± 103.7
pull
Entries 88
Mean −278.9
Std Dev 0

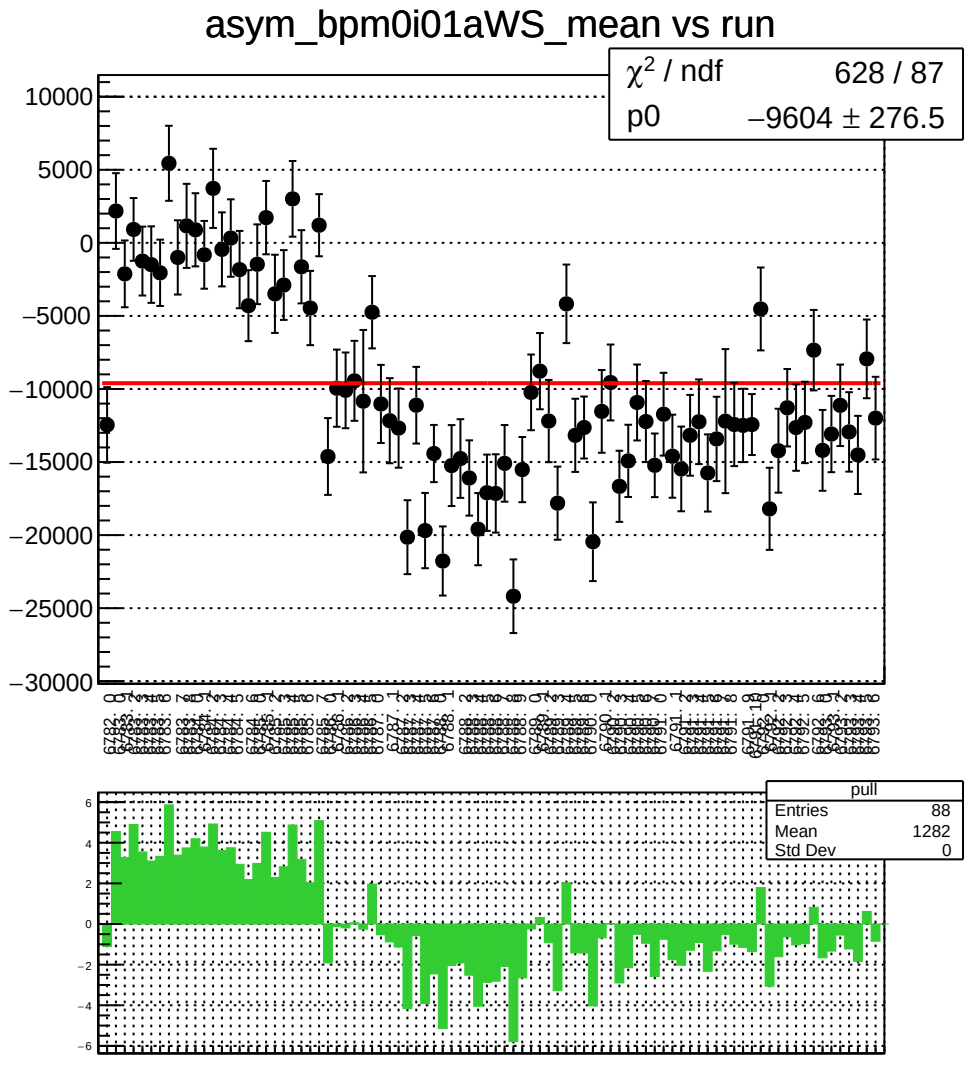

pull1D
Entries 88
Mean −1.963
Std Dev 4.324

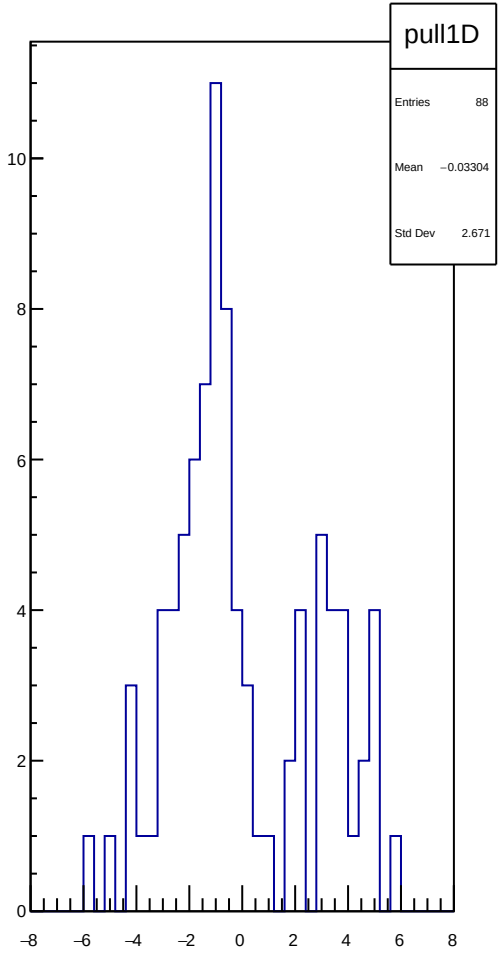

asym_bpm2i02WS_rms vs run
χ^2 / ndf 5.901e+04 / 87
p0 92.62 ± 0.07332
350
300
250
200
150
100
50

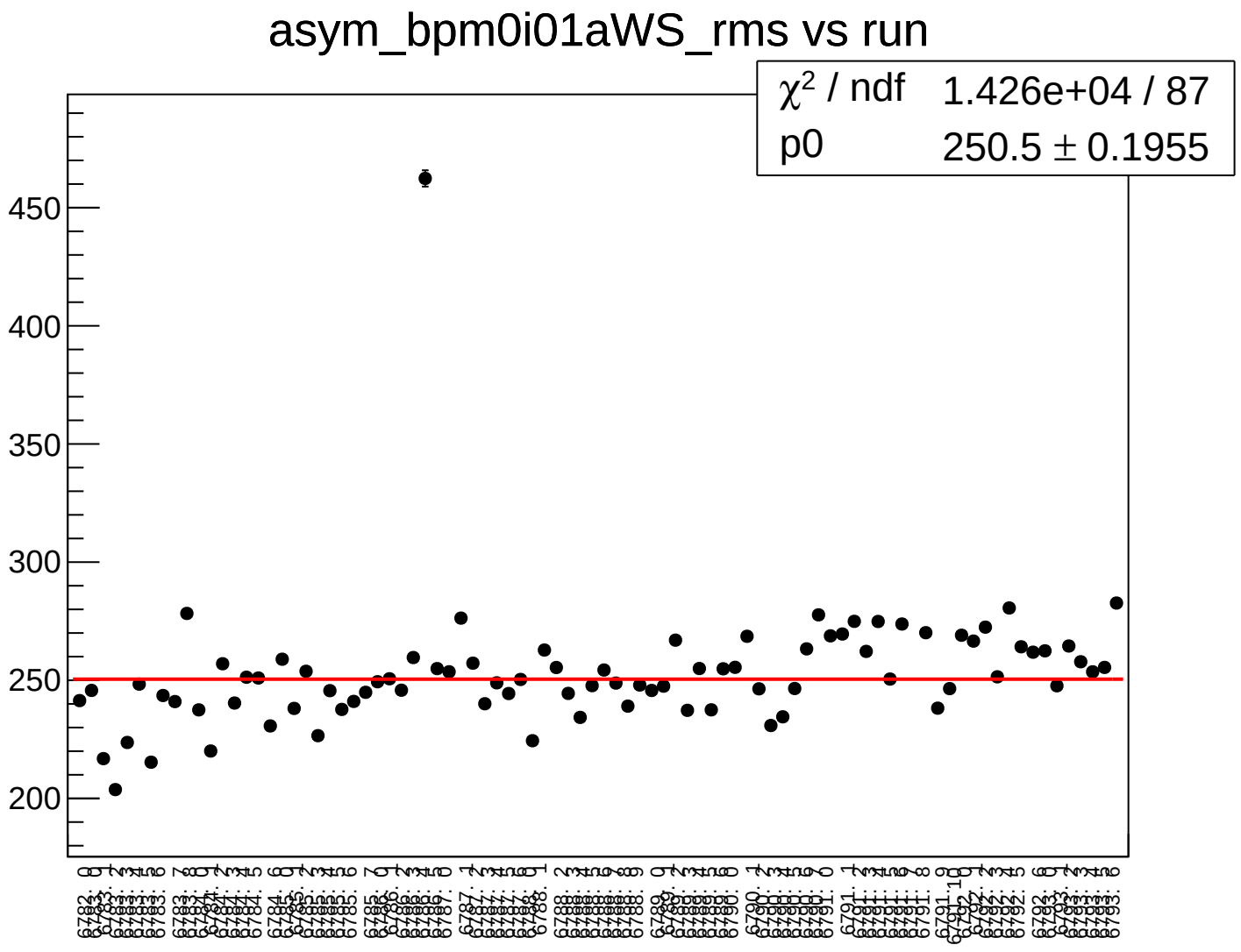

asym_bpm0i01WS_mean vs run
χ² / ndf 604.7 / 87
p0 −1.048e+04 ± 285.5
pull
Entries 88
Mean 1422
Std Dev 0

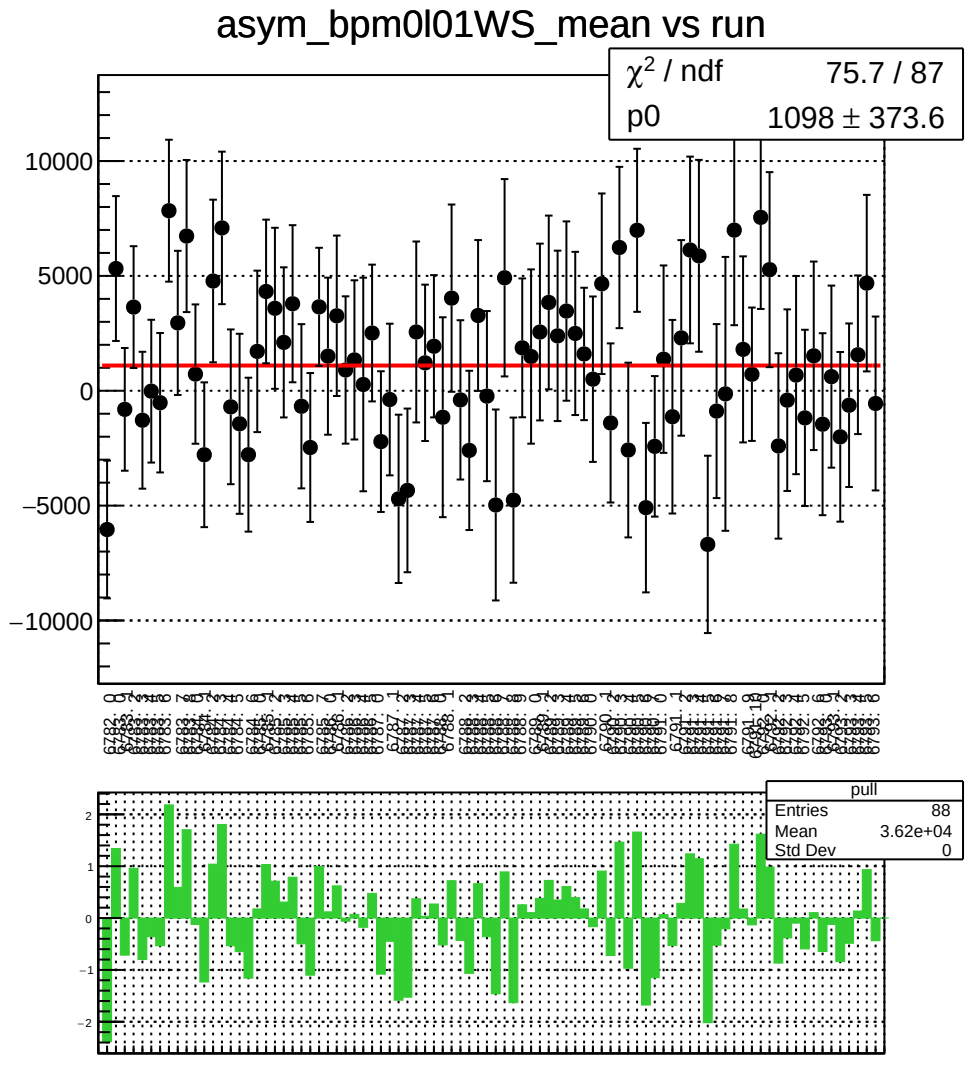

pull1D
Entries 88
Mean −0.02862
Std Dev 2.621

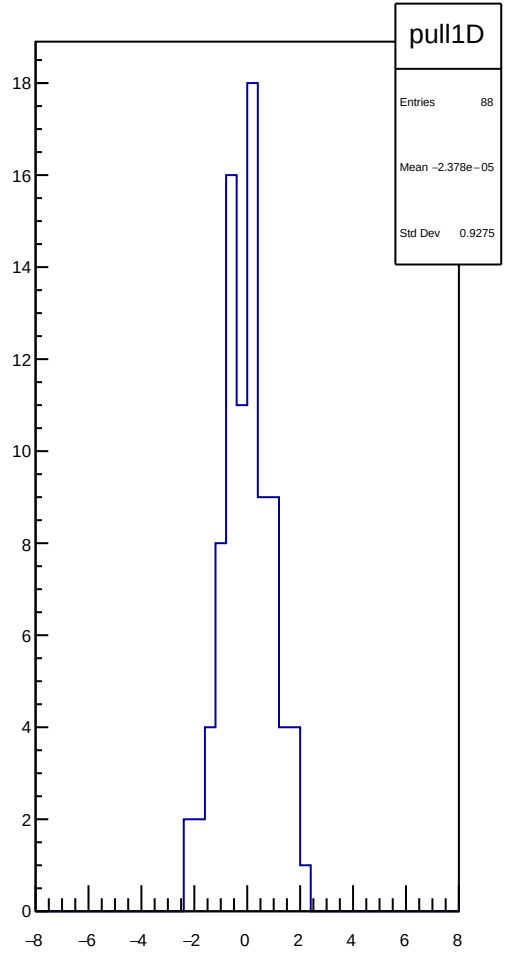

asym_bpm0i01WS_rms vs run
χ² / ndf 1.287e+04 / 87
p0 258.7 ± 0.2019
500
450
400
350
300
250
200

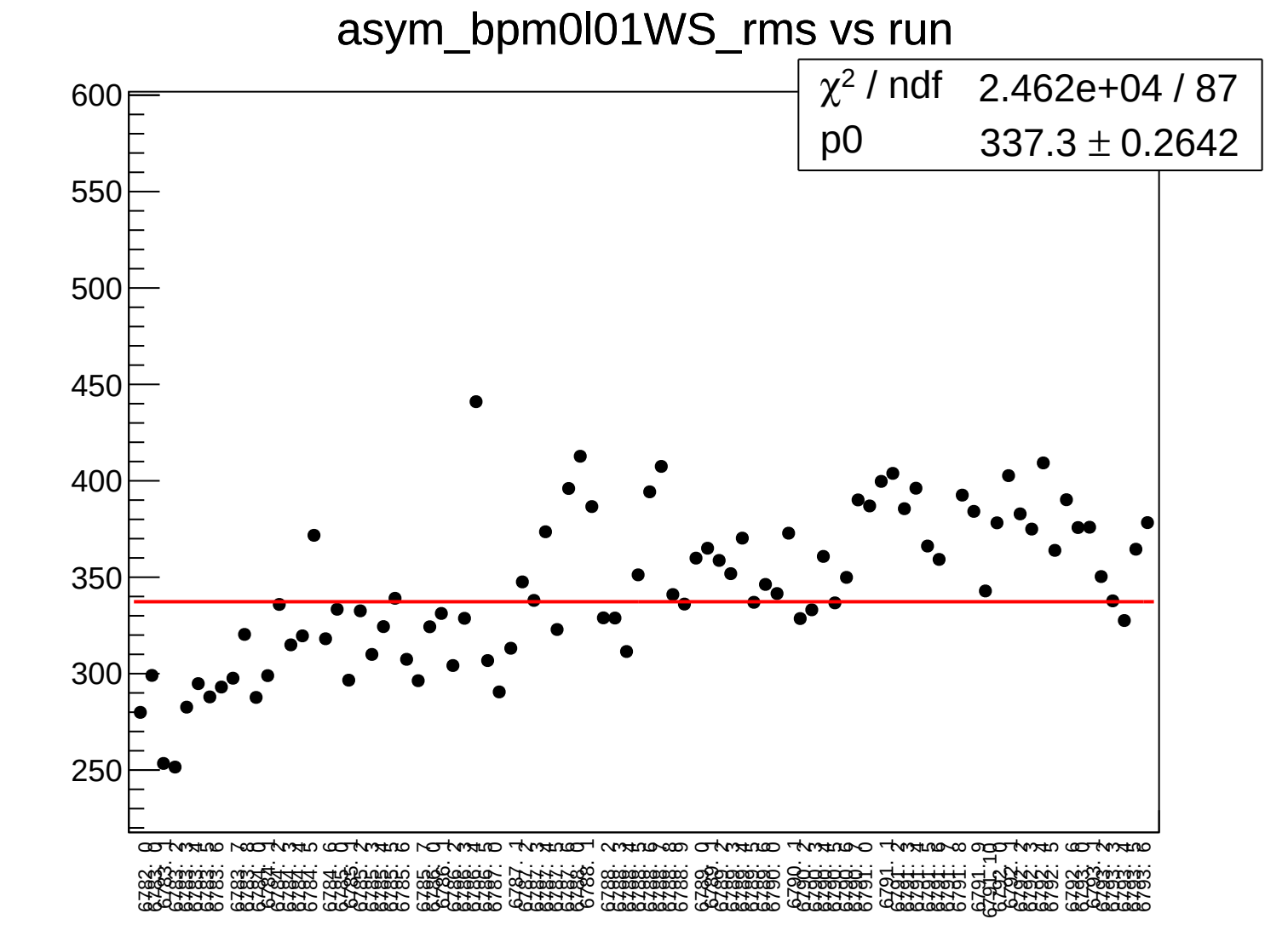

asym_bpm0i01aWS_mean vs run
χ² / ndf 628 / 87
p0 −9604 ± 276.5
pull
Entries 88
Mean 1282
Std Dev 0

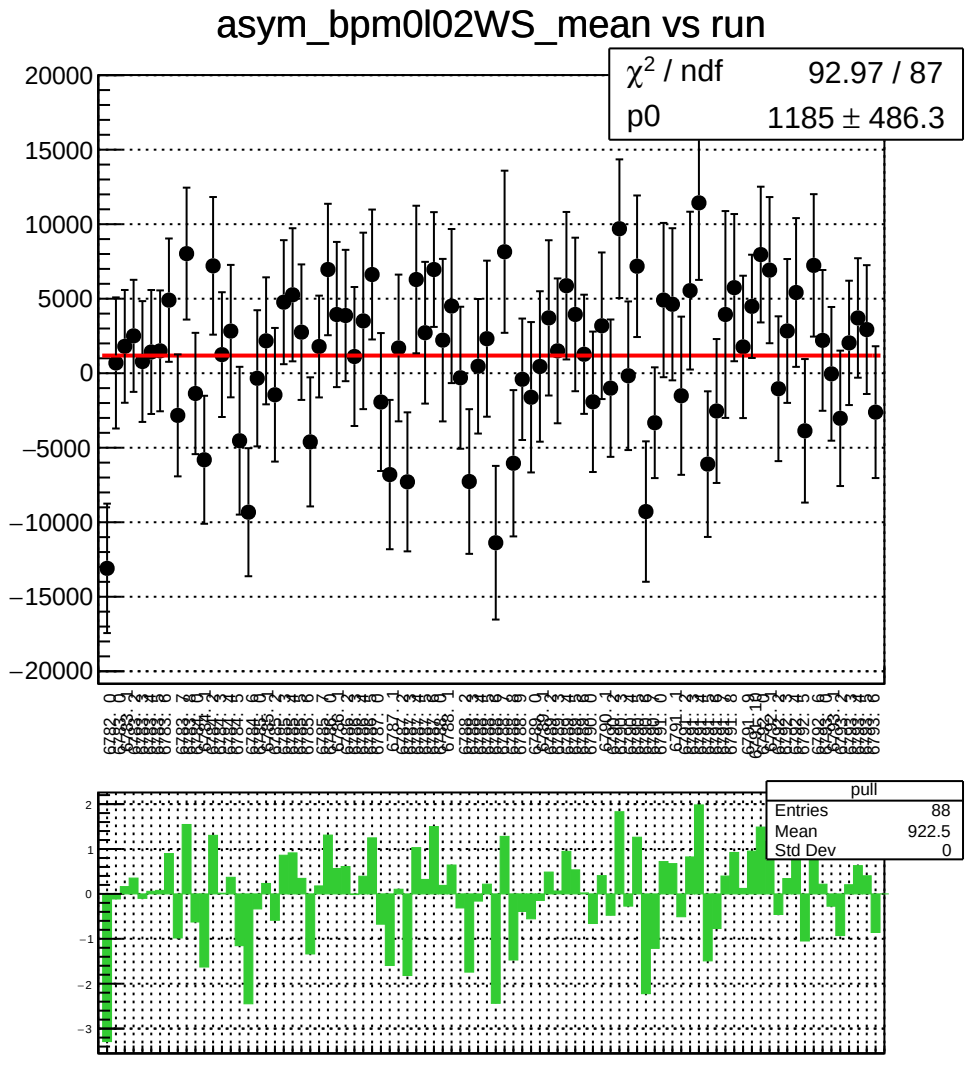

pull1D
Entries 88
Mean −0.03304
Std Dev 2.671

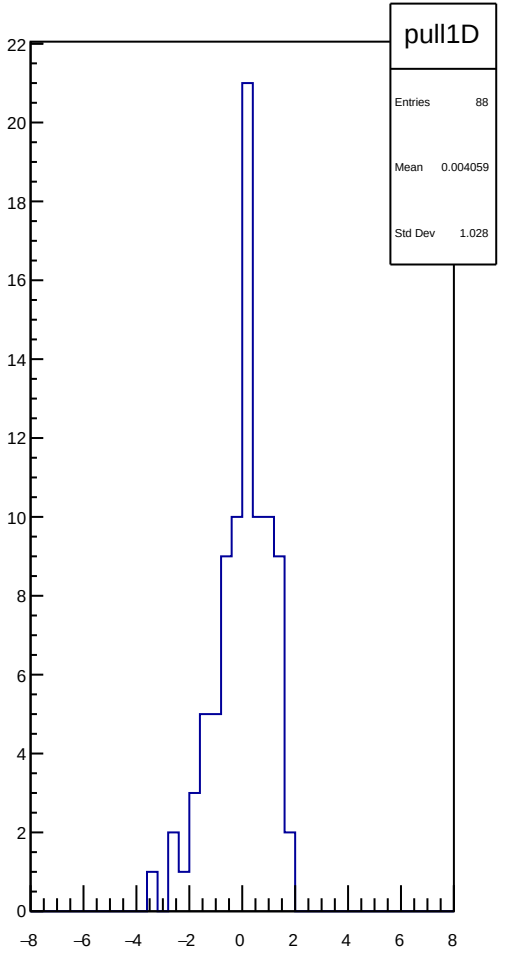

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.426e+04 / 87
p0 250.5 ± 0.1955
450
400
350
300
250
200

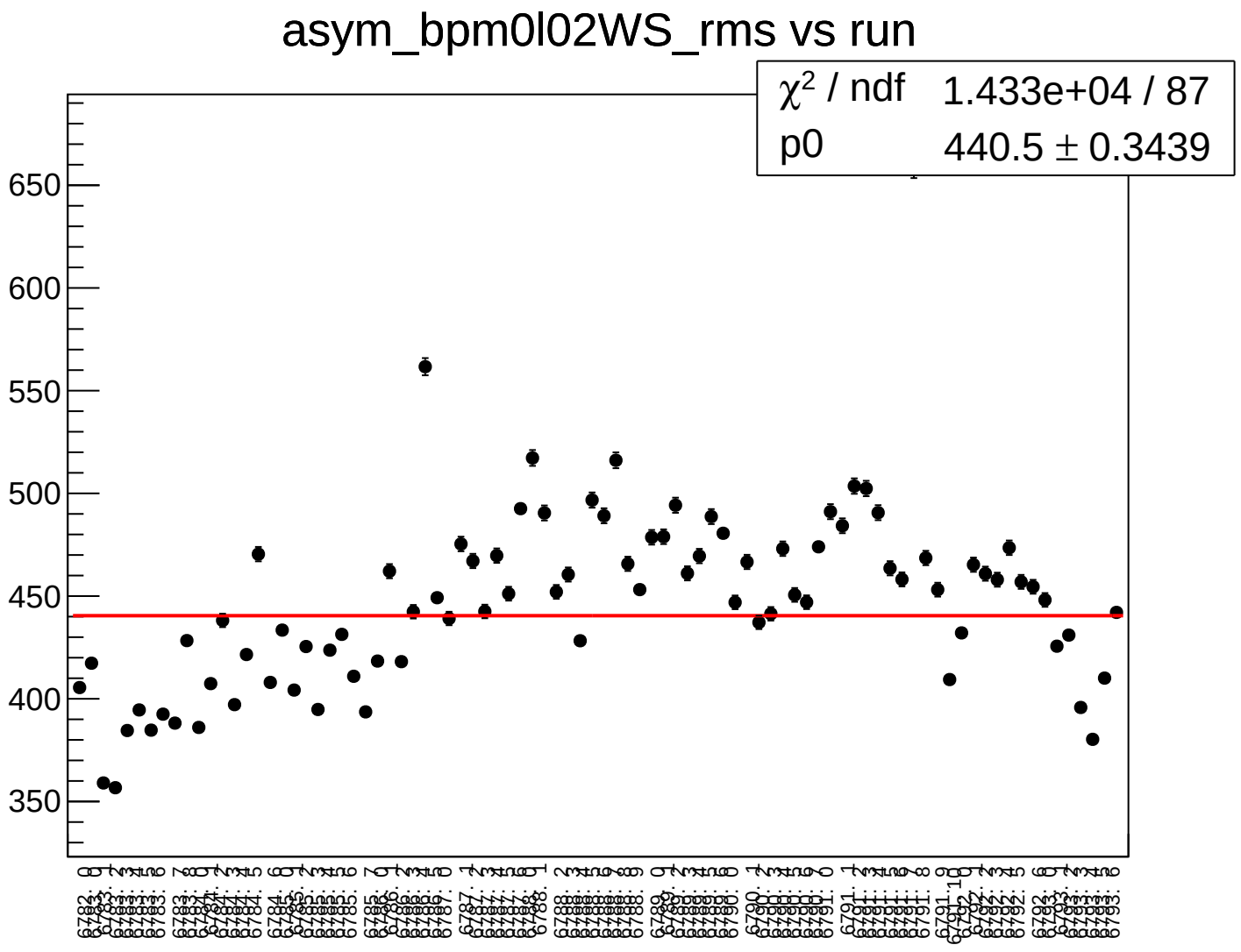

asym_bpm0l01WS_mean vs run
χ² / ndf 75.7 / 87
p0 1098 ± 373.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 3.62e+04
Std Dev 0
2
1
0
−1
−2

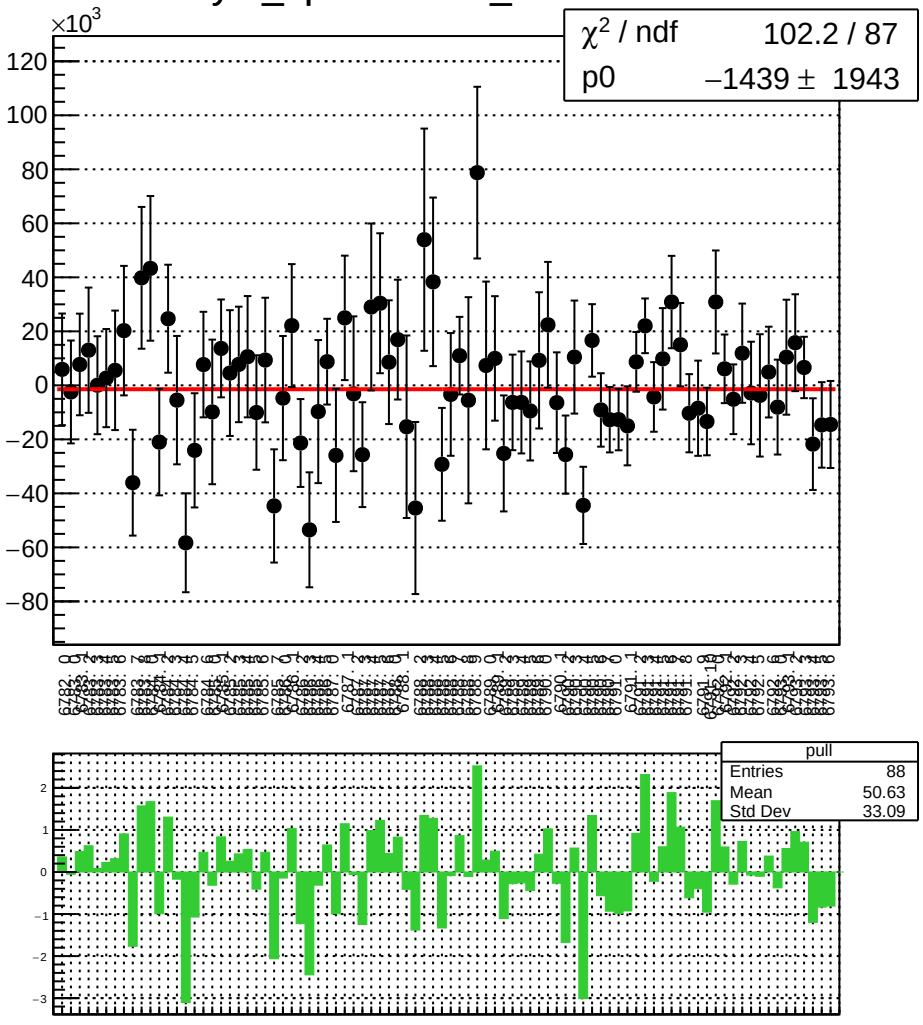

pull1D
Entries 88
Mean −2.378e−05
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

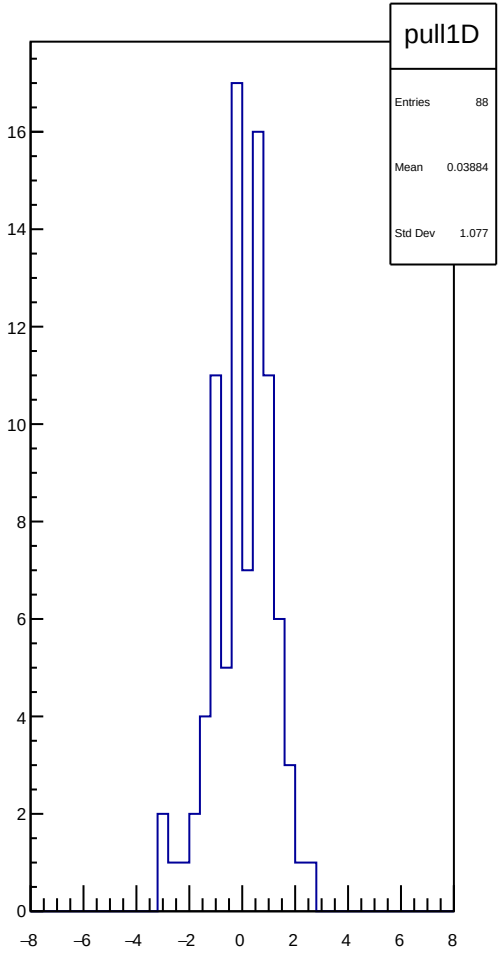

asym_bpm0l01WS_rms vs run
χ² / ndf 2.462e+04 / 87
p0 337.3 ± 0.2642
600
550
500
450
400
350
300
250

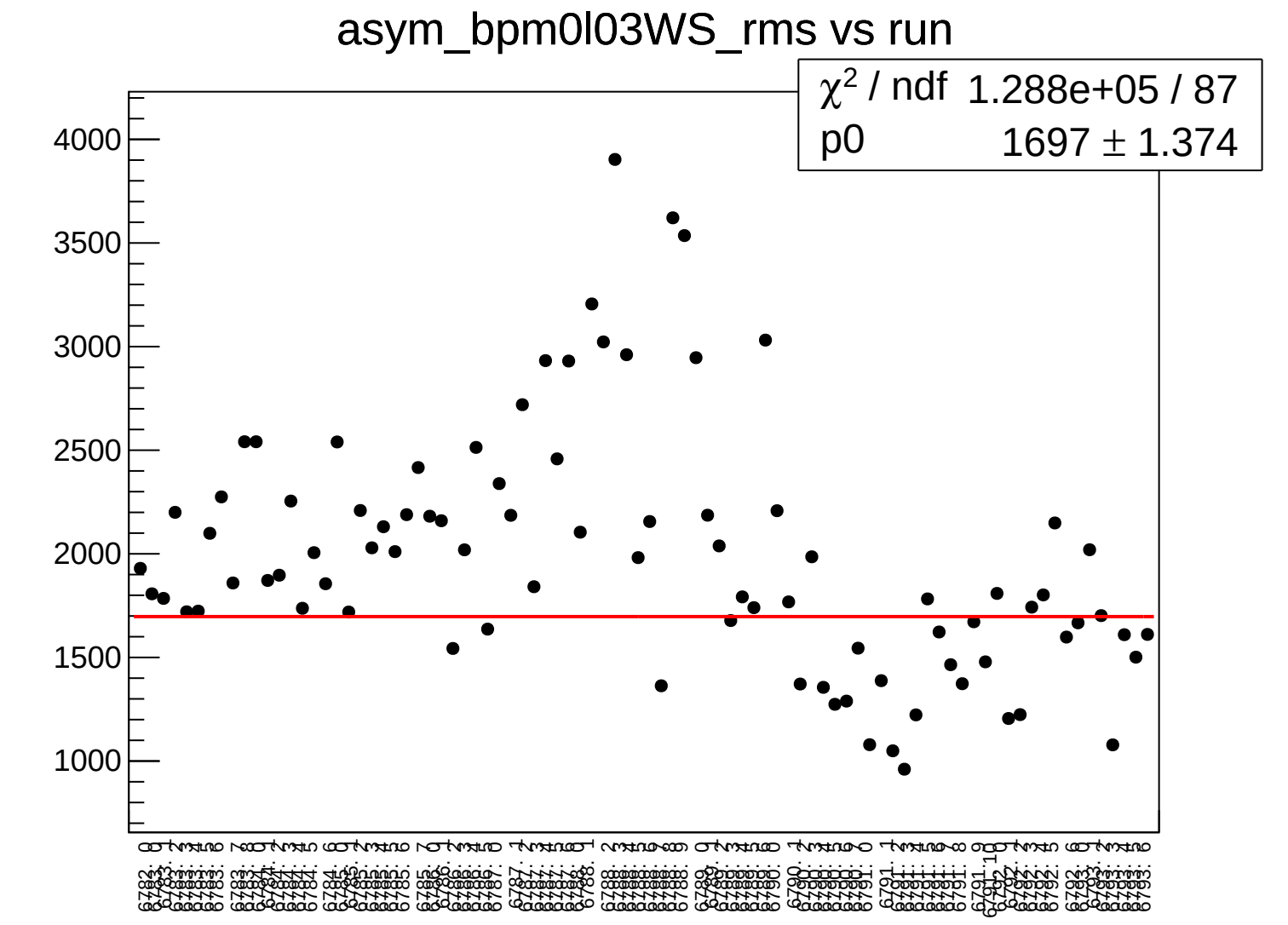

asym_bpm0l02WS_mean vs run
χ² / ndf 92.97 / 87
p0 1185 ± 486.3
pull
Entries 88
Mean 922.5
Std Dev 0

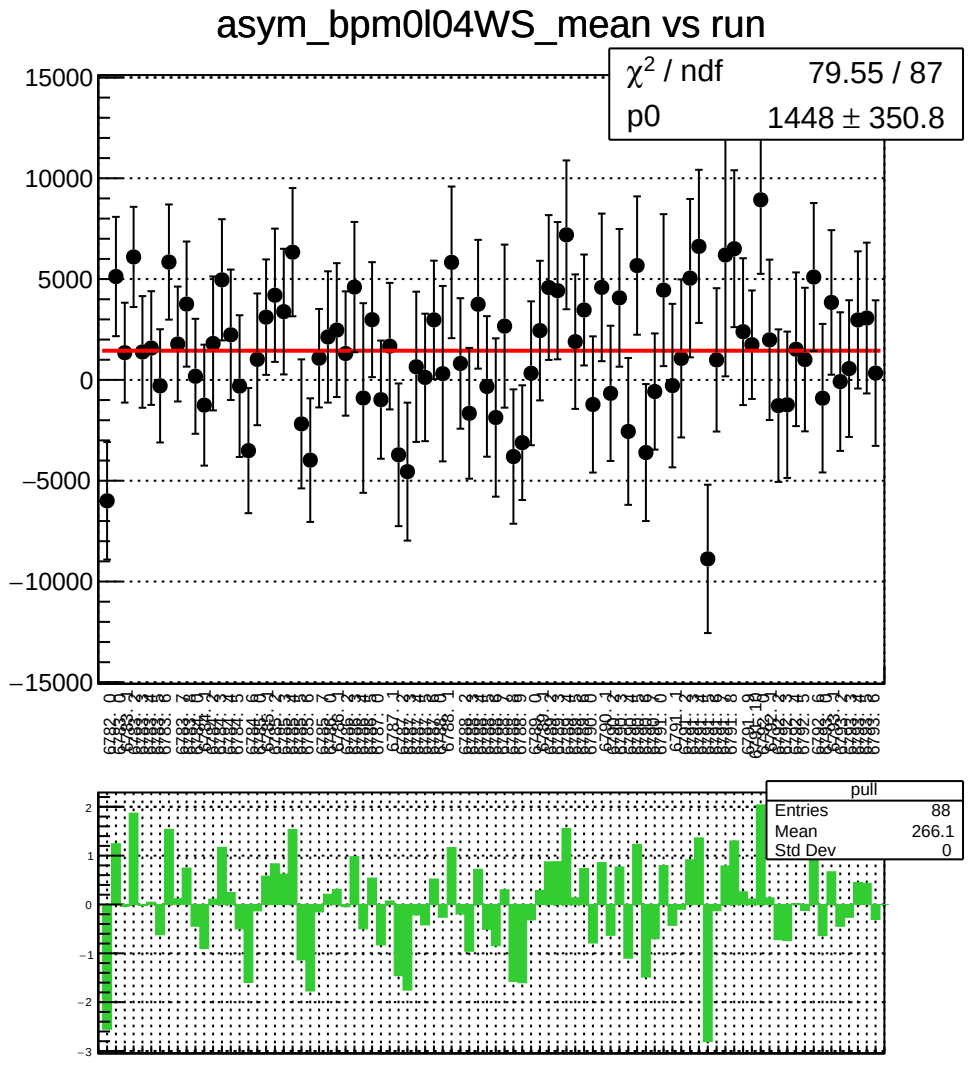

pull1D
Entries 88
Mean 0.004059
Std Dev 1.028

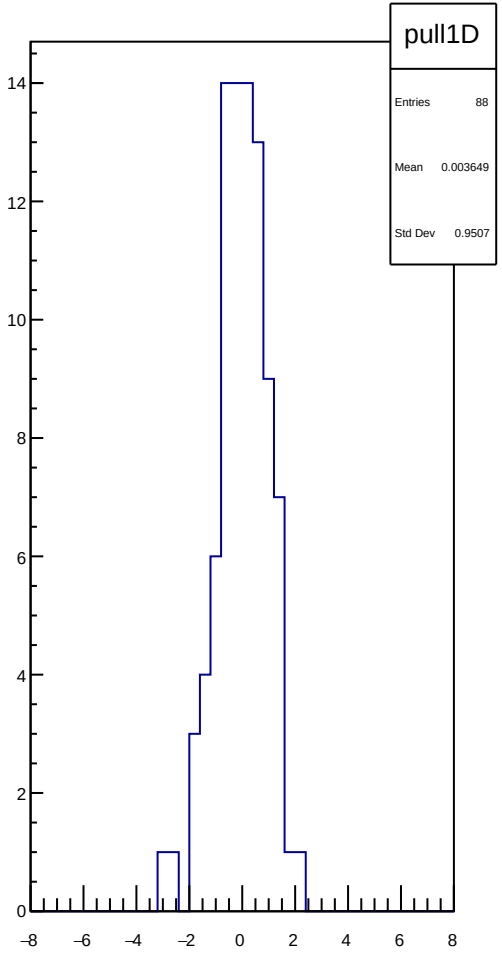

asym_bpm0l02WS_rms vs run
χ² / ndf 1.433e+04 / 87
p0 440.5 ± 0.3439
650
600
550
500
450
400
350

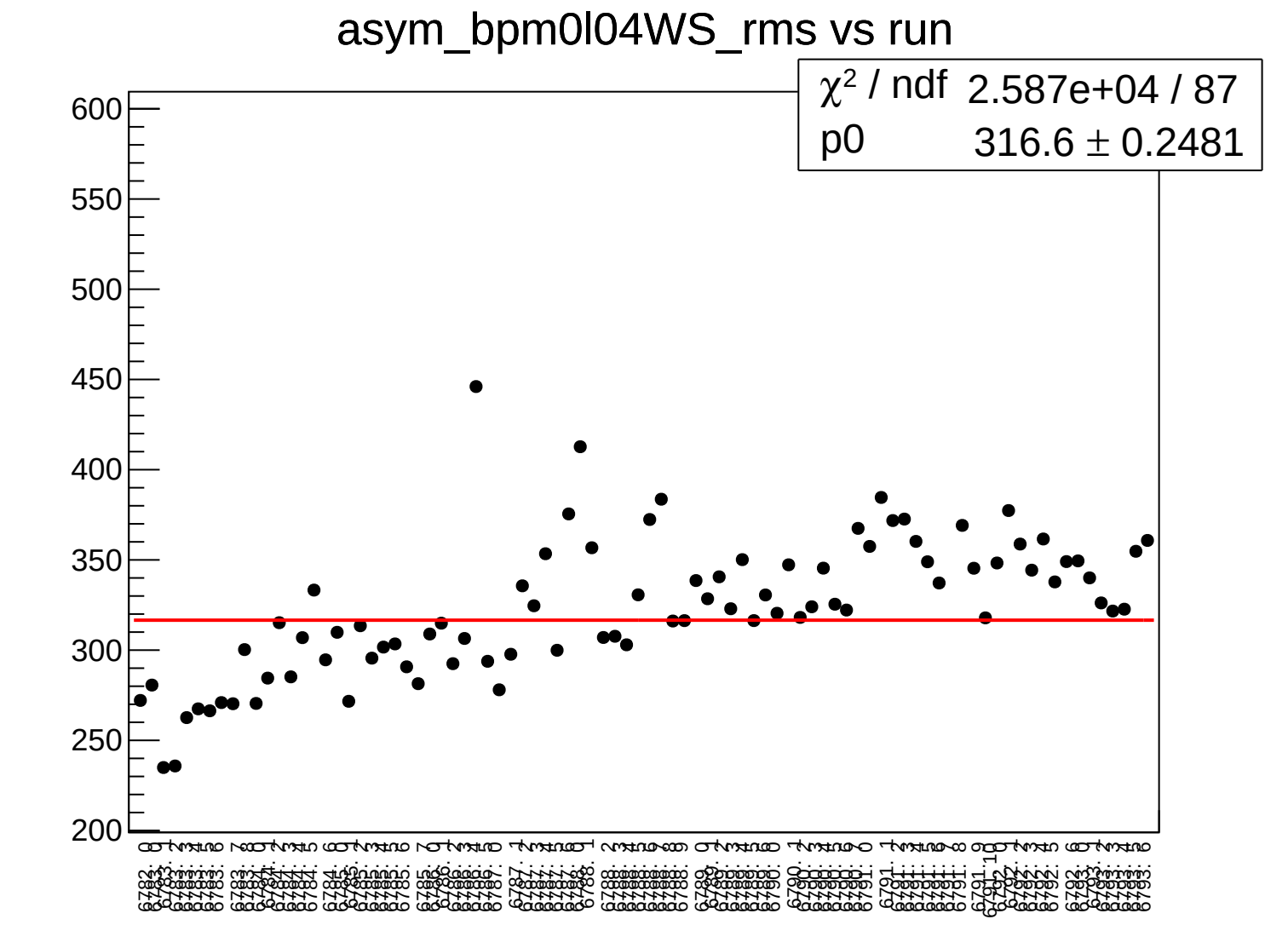

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 102.2 / 87
p0 −1439 ± 1943
pull
Entries 88
Mean 50.63
Std Dev 33.09

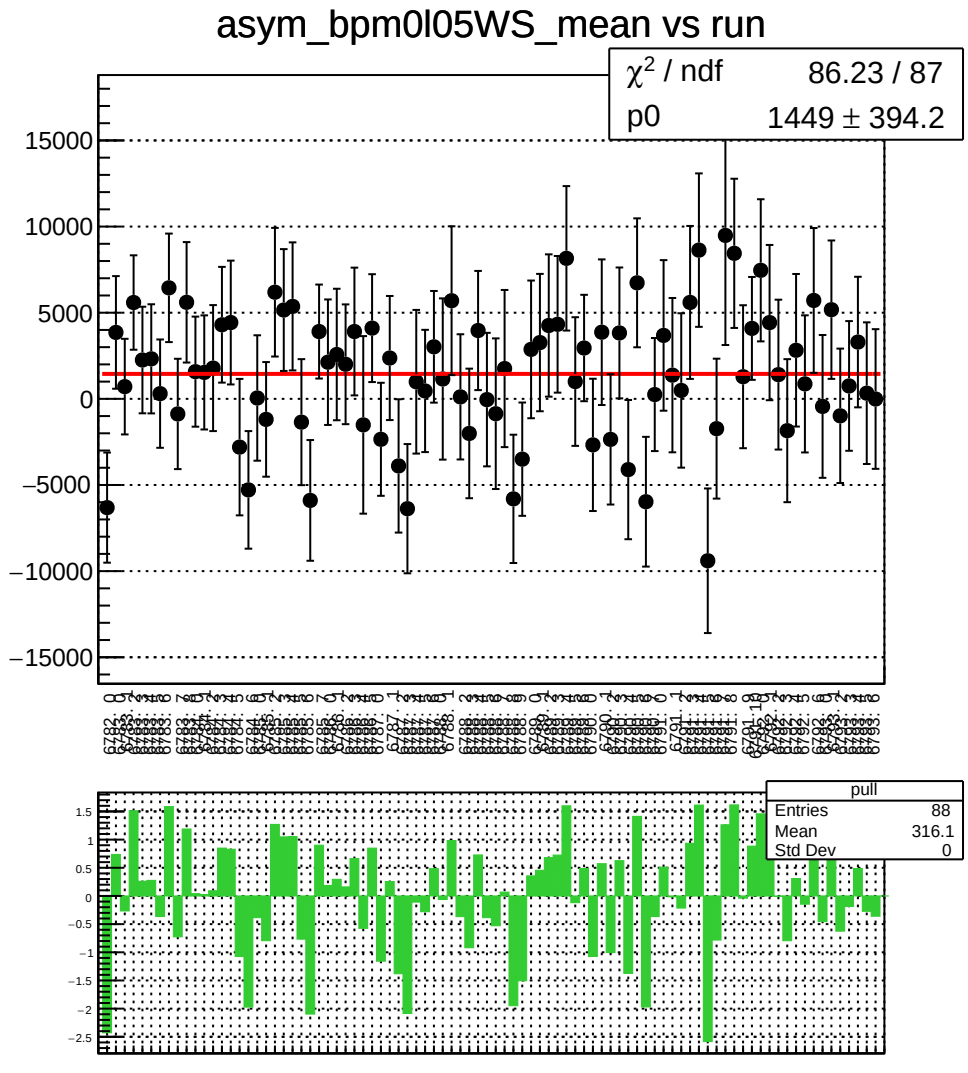

pull1D
Entries 88
Mean 0.03884
Std Dev 1.077

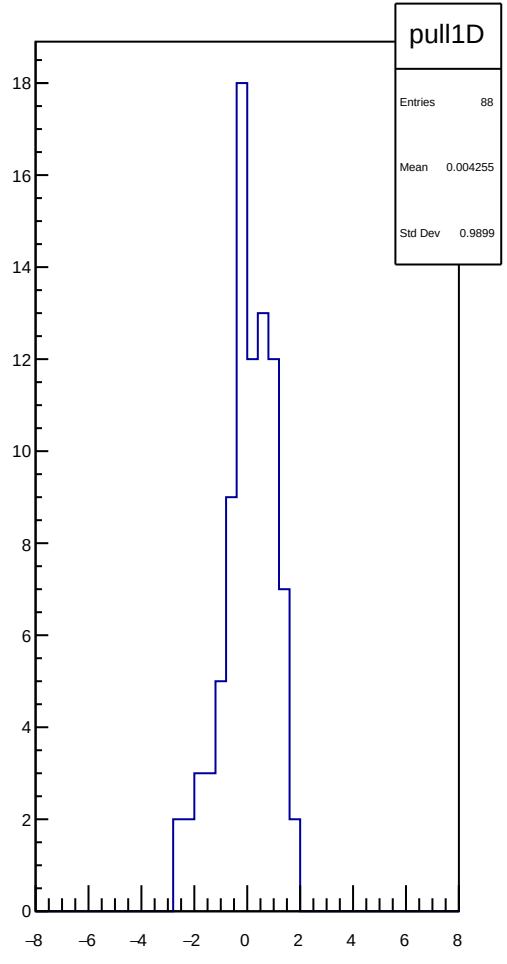

asym_bpm0l03WS_rms vs run
χ^2 / ndf 1.288e+05 / 87
p0 1697 ± 1.374
4000
3500
3000
2500
2000
1500
1000

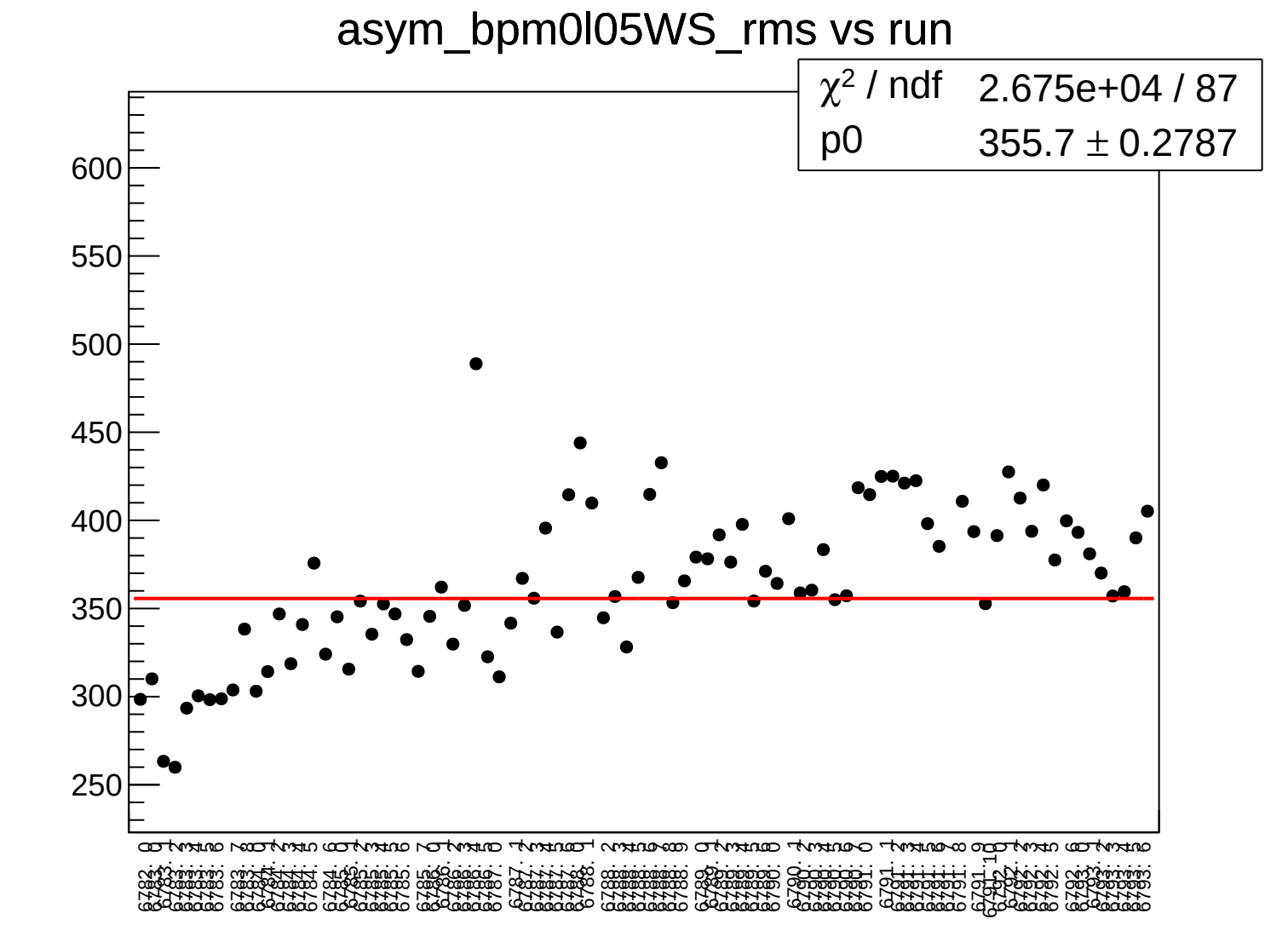

asym_bpm0l04WS_mean vs run
χ² / ndf 79.55 / 87
p0 1448 ± 350.8
pull
Entries 88
Mean 266.1
Std Dev 0

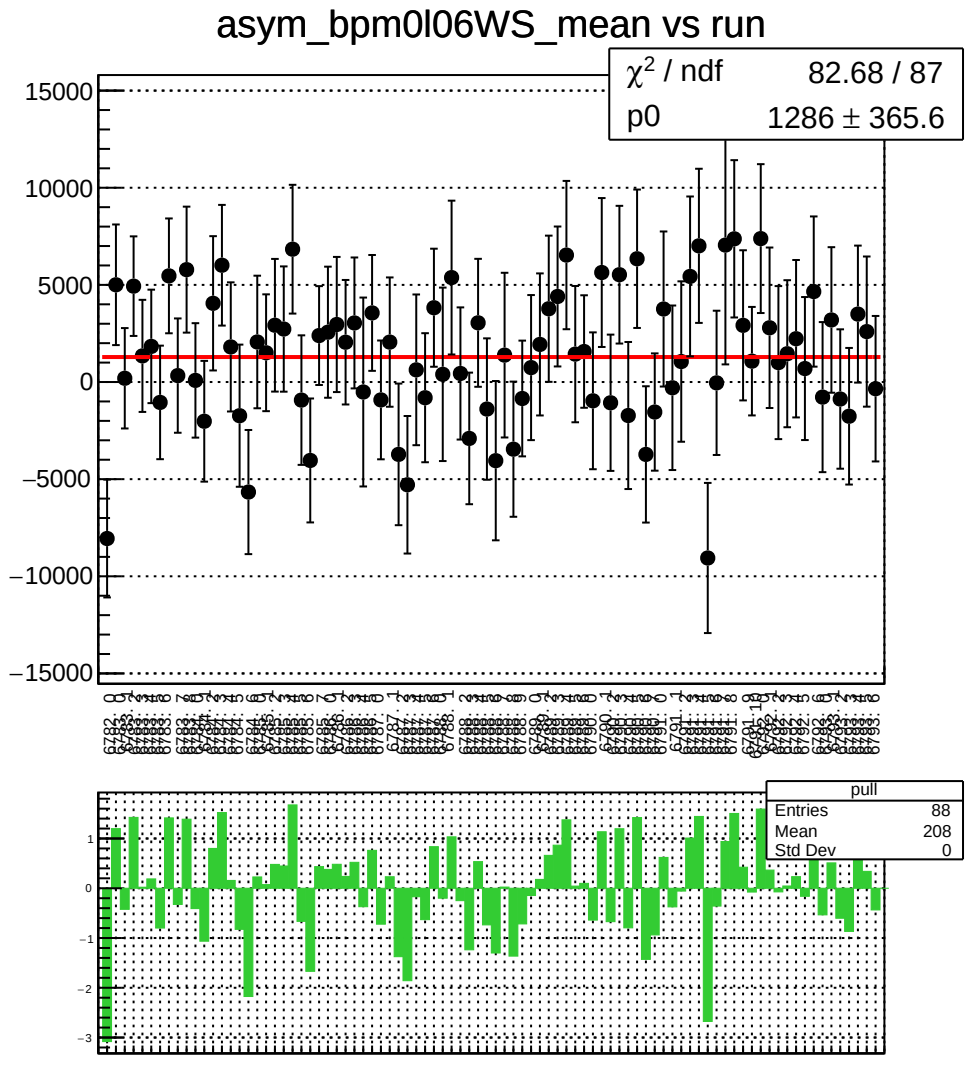

pull1D
Entries 88
Mean 0.003649
Std Dev 0.9507

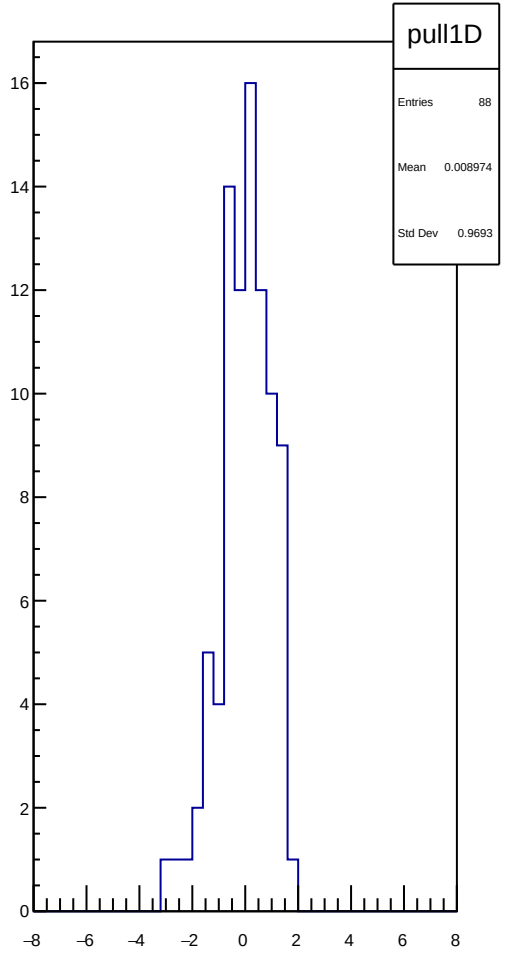

asym_bpm0l04WS_rms vs run
χ² / ndf 2.587e+04 / 87
p0 316.6 ± 0.2481
600
550
500
450
400
350
300
250
200

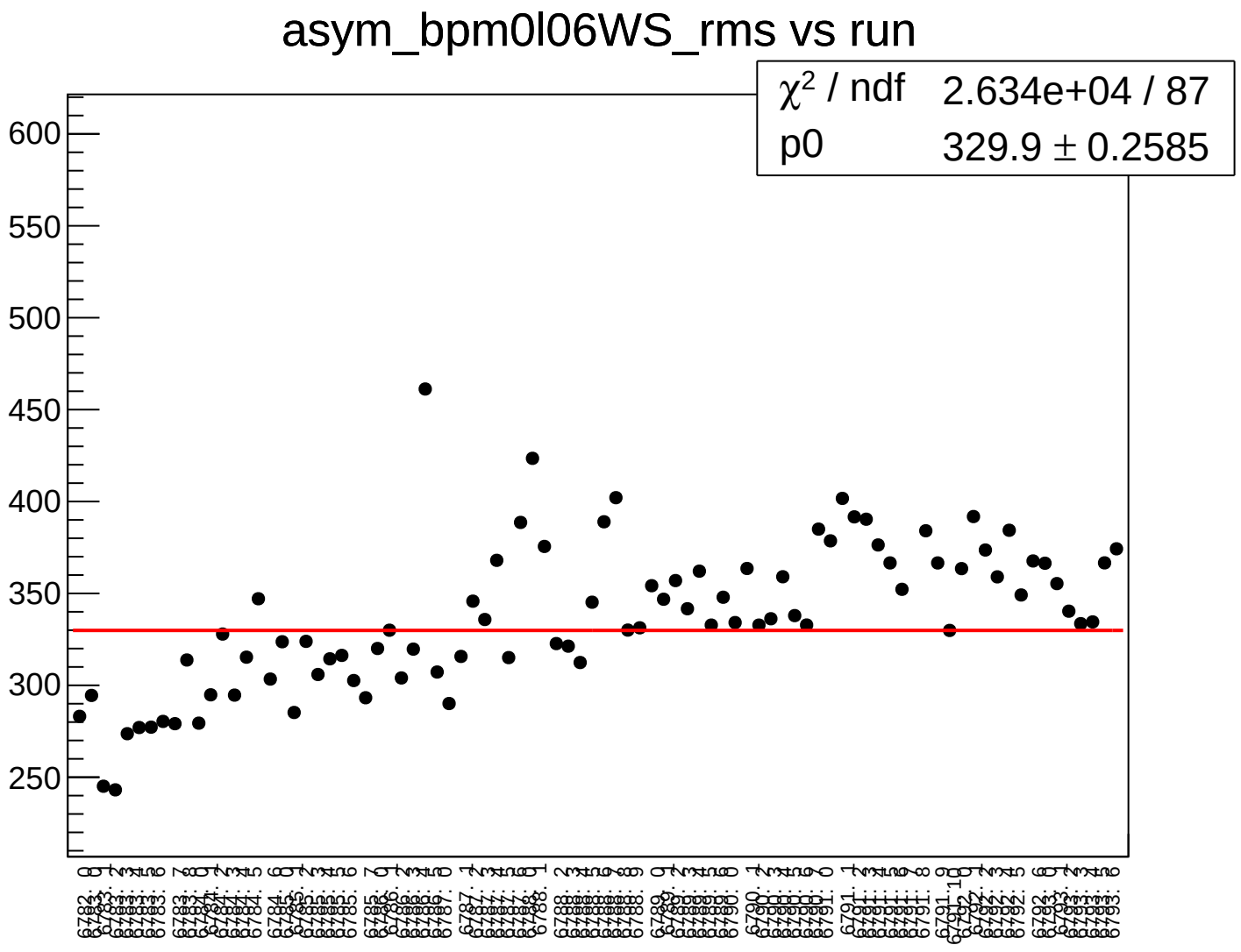

asym_bpm0l05WS_mean vs run
χ² / ndf 86.23 / 87
p0 1449 ± 394.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 316.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

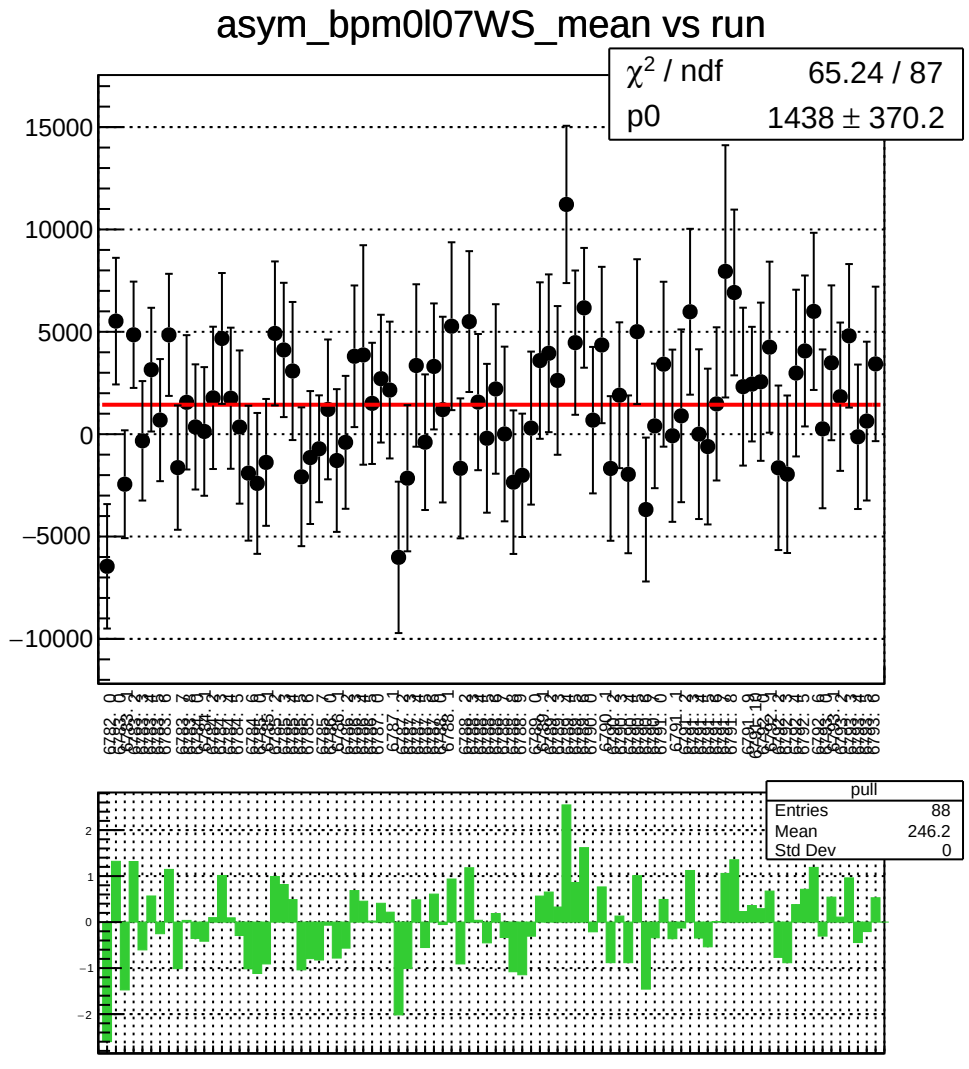

pull1D
Entries 88
Mean 0.004255
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

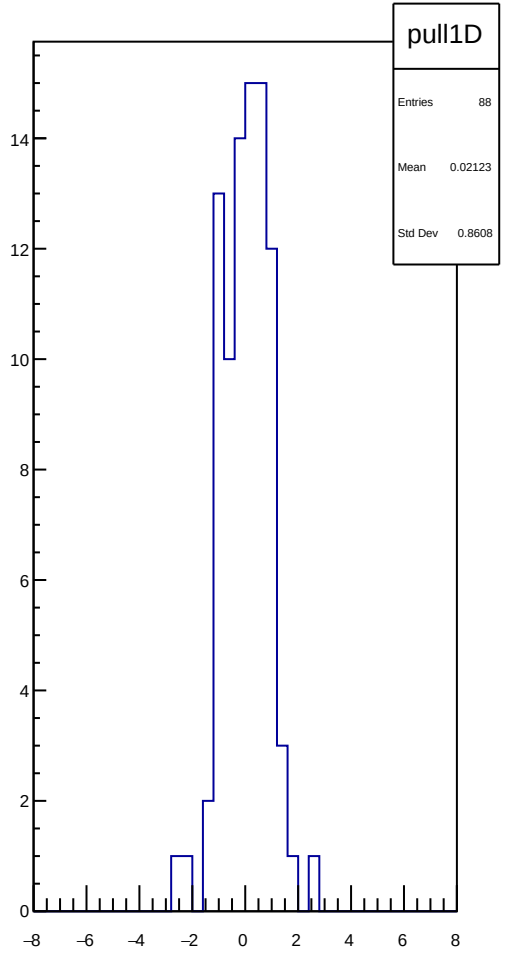

asym_bpm0l05WS_rms vs run
χ² / ndf 2.675e+04 / 87
p0 355.7 ± 0.2787
600
550
500
450
400
350
300
250

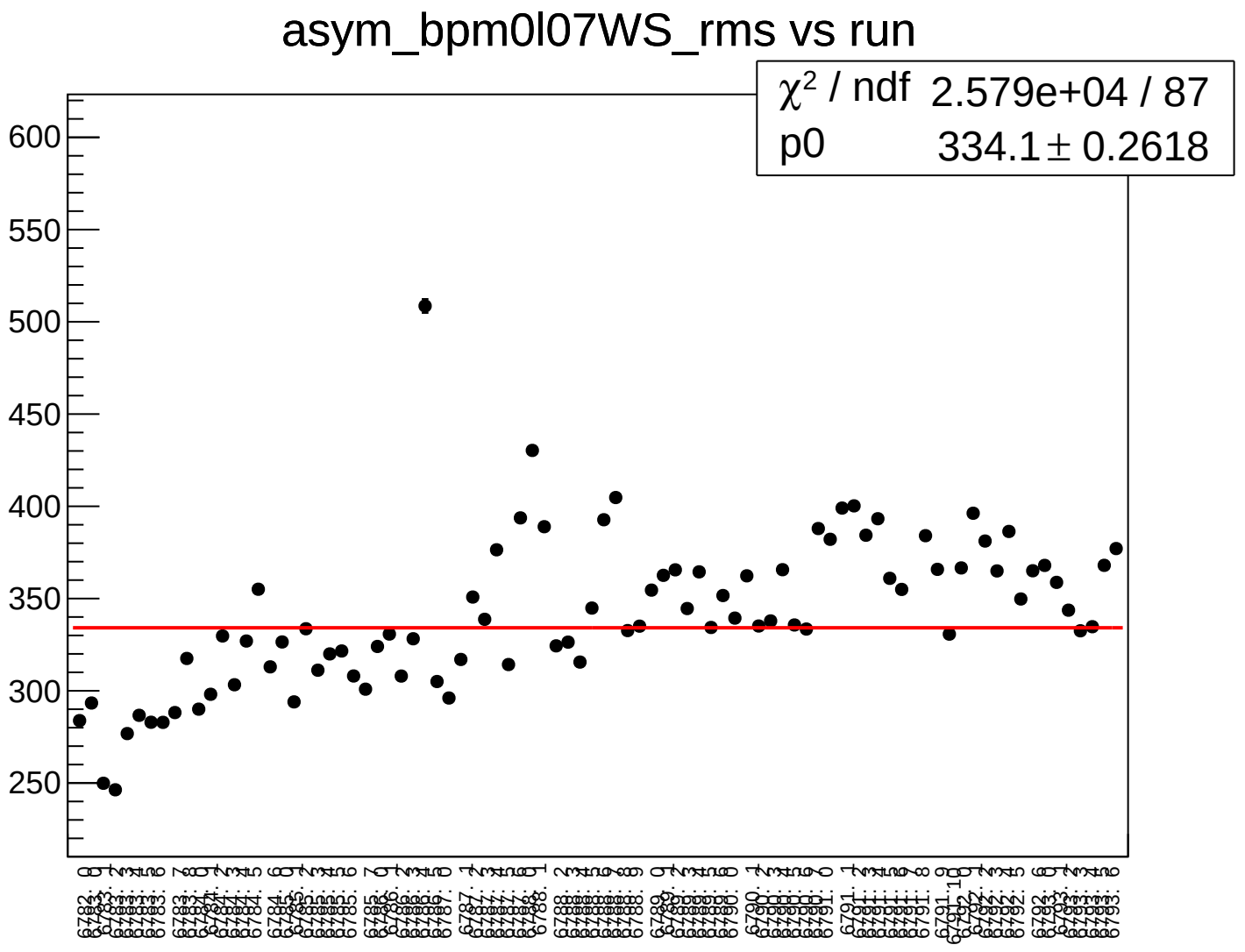

asym_bpm0l06WS_mean vs run
χ² / ndf 82.68 / 87
p0 1286 ± 365.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 208
Std Dev 0
1
0
−1
−2
−3

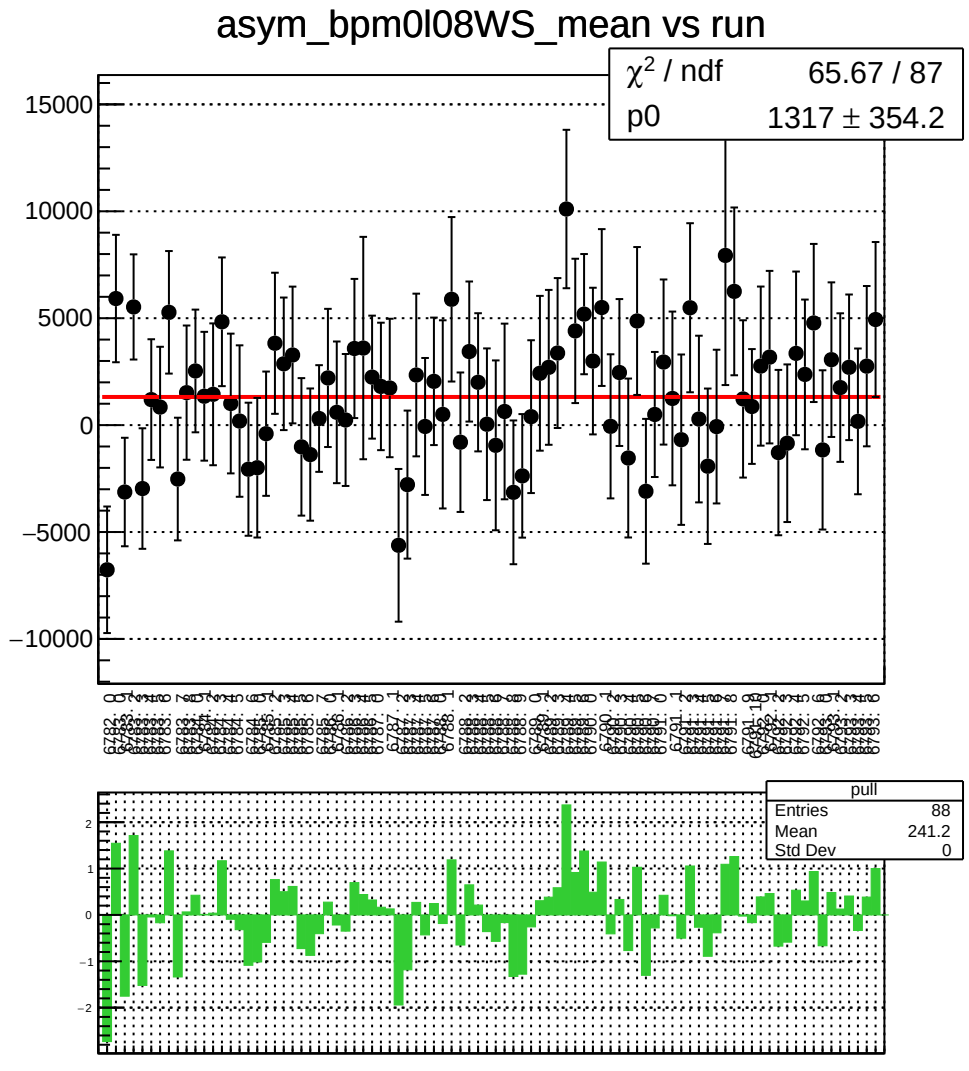

pull1D
Entries 88
Mean 0.008974
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

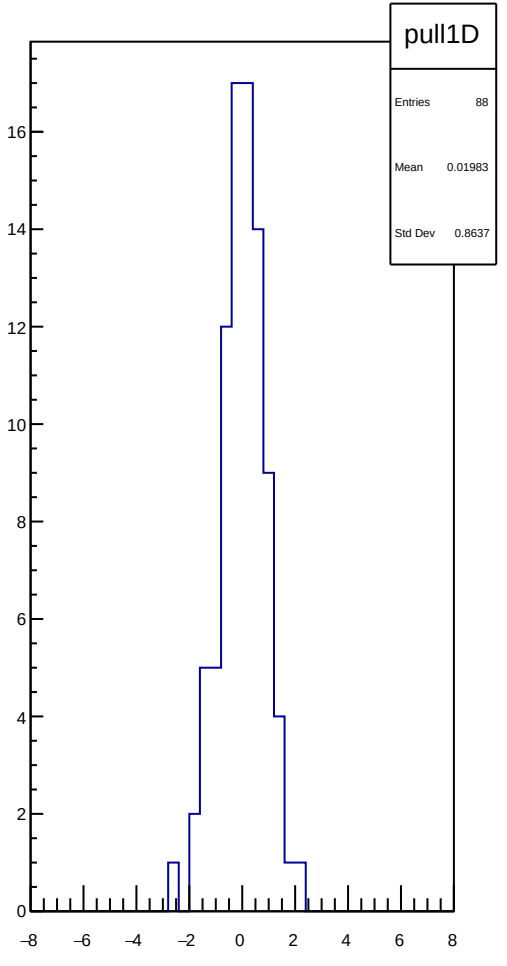

asym_bpm0l06WS_rms vs run
χ² / ndf 2.634e+04 / 87
p0 329.9 ± 0.2585
600
550
500
450
400
350
300
250

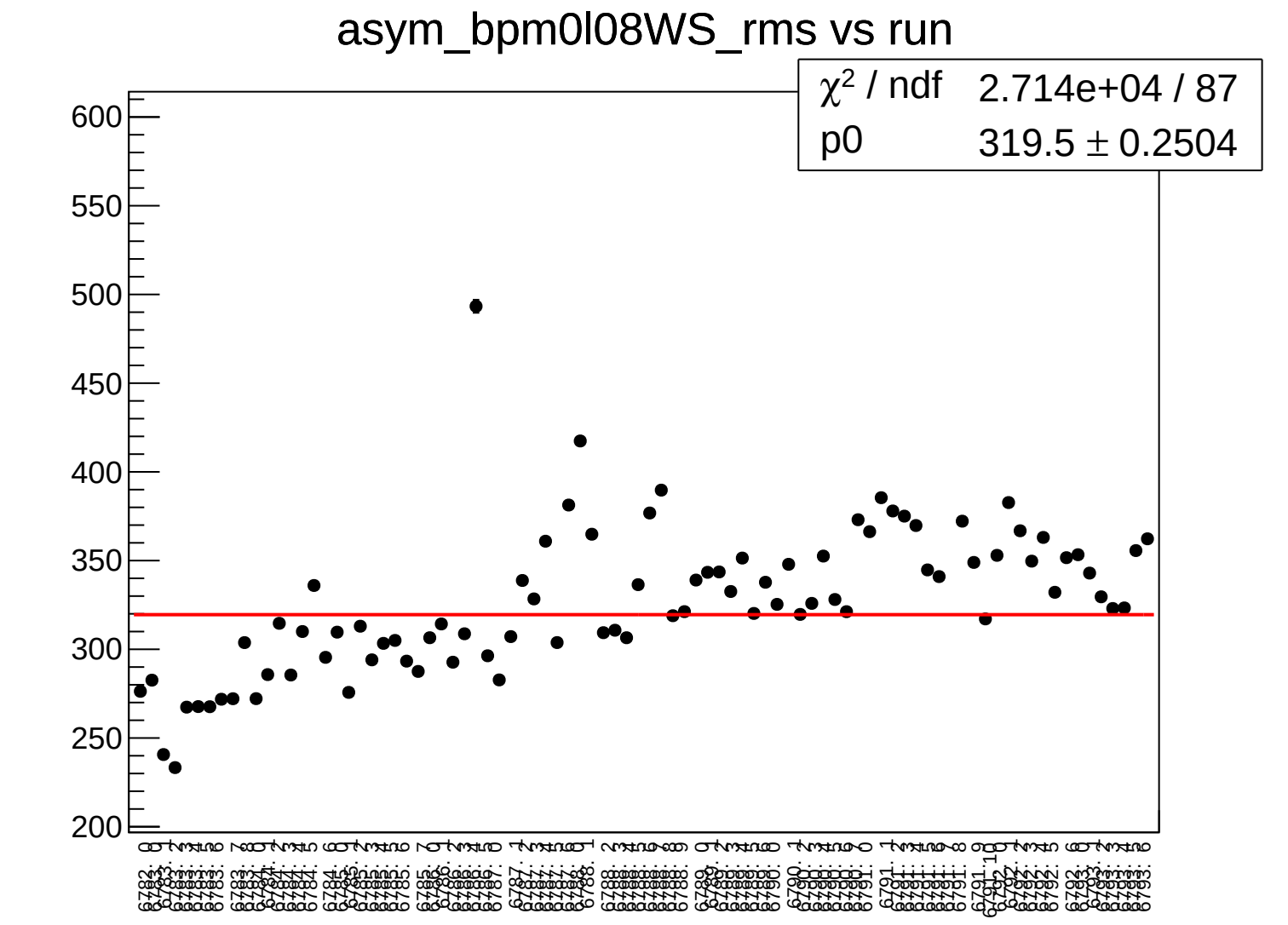

asym_bpm0l07WS_mean vs run
χ² / ndf 65.24 / 87
p0 1438 ± 370.2
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 246.2
Std Dev 0
2
1
0
−1
−2

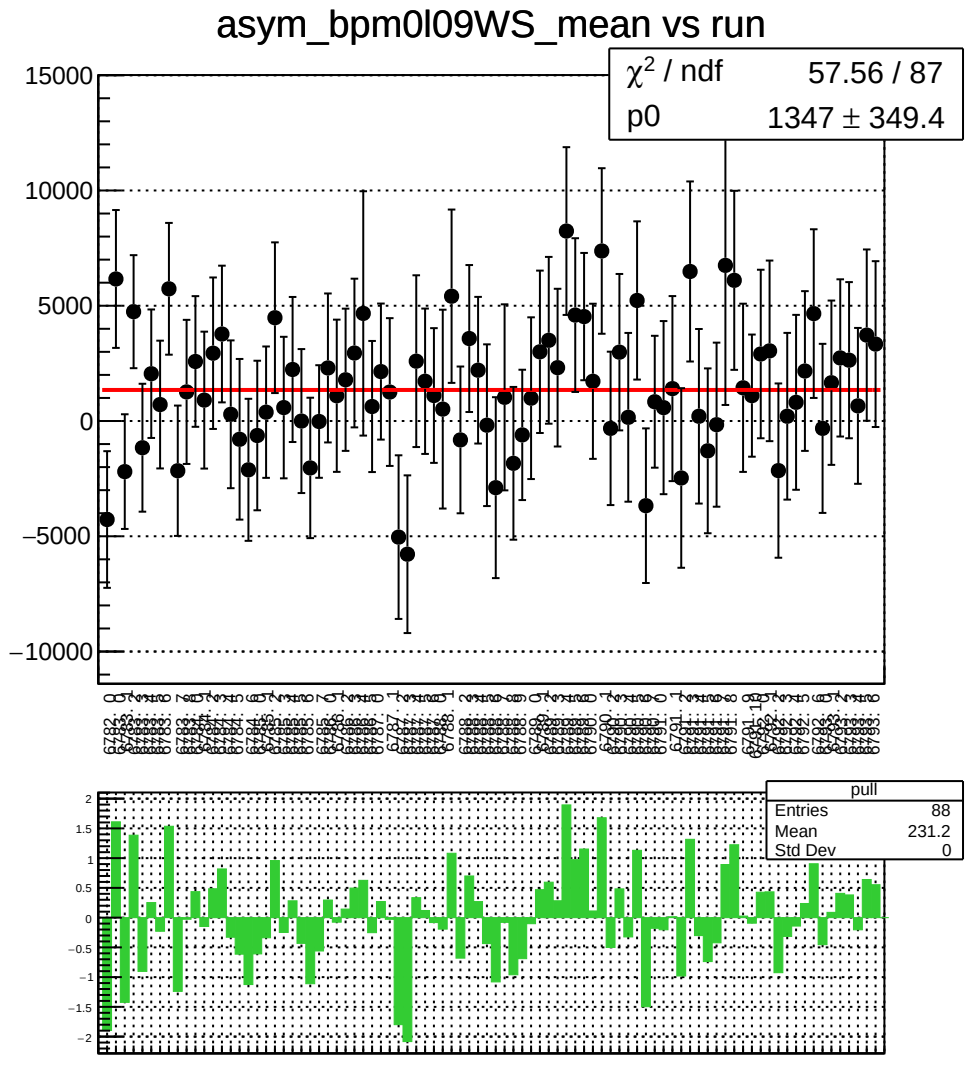

pull1D
Entries 88
Mean 0.02123
Std Dev 0.8608
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

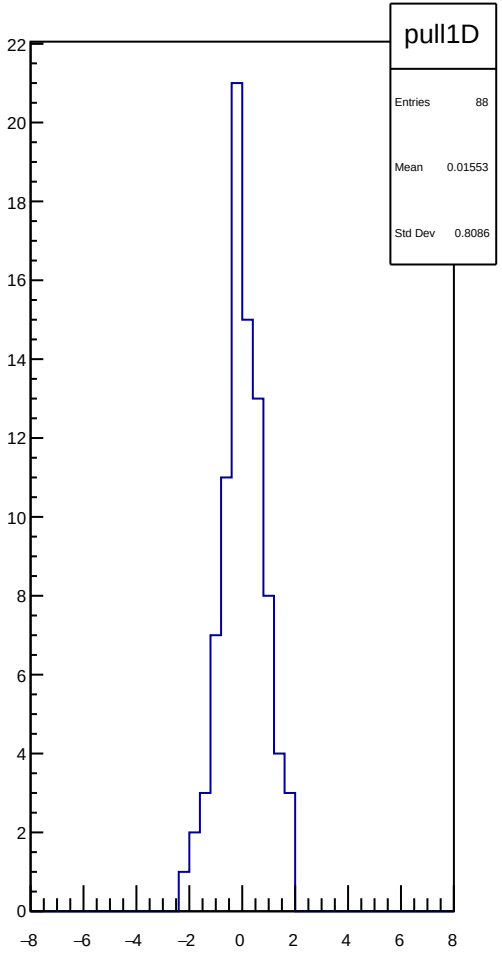

asym_bpm0l07WS_rms vs run
χ² / ndf 2.579e+04 / 87
p0 334.1 ± 0.2618
600
550
500
450
400
350
300
250

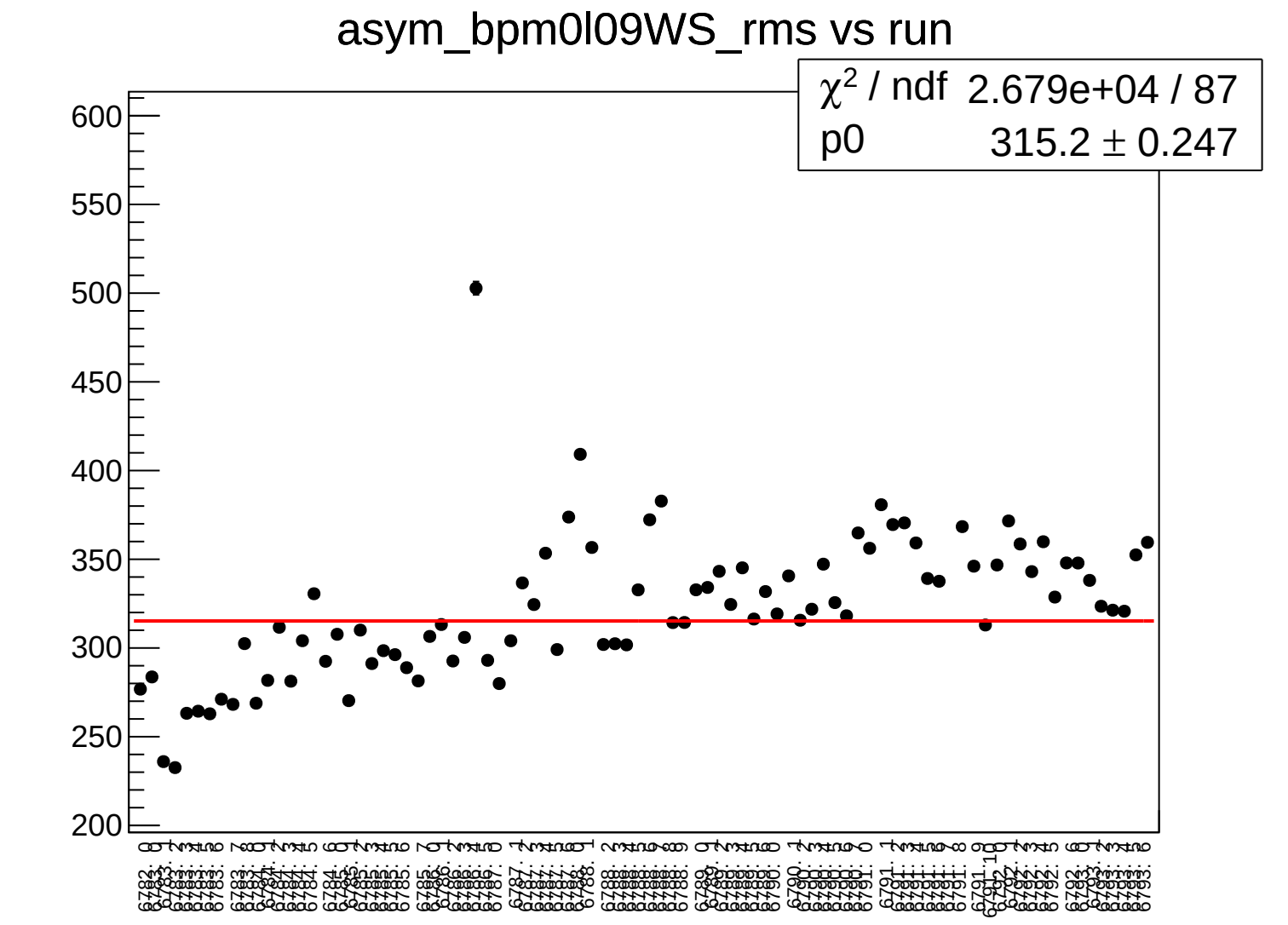

asym_bpm0l08WS_mean vs run
χ² / ndf 65.67 / 87
p0 1317 ± 354.2
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 241.2
Std Dev 0
2
1
0
−1
−2

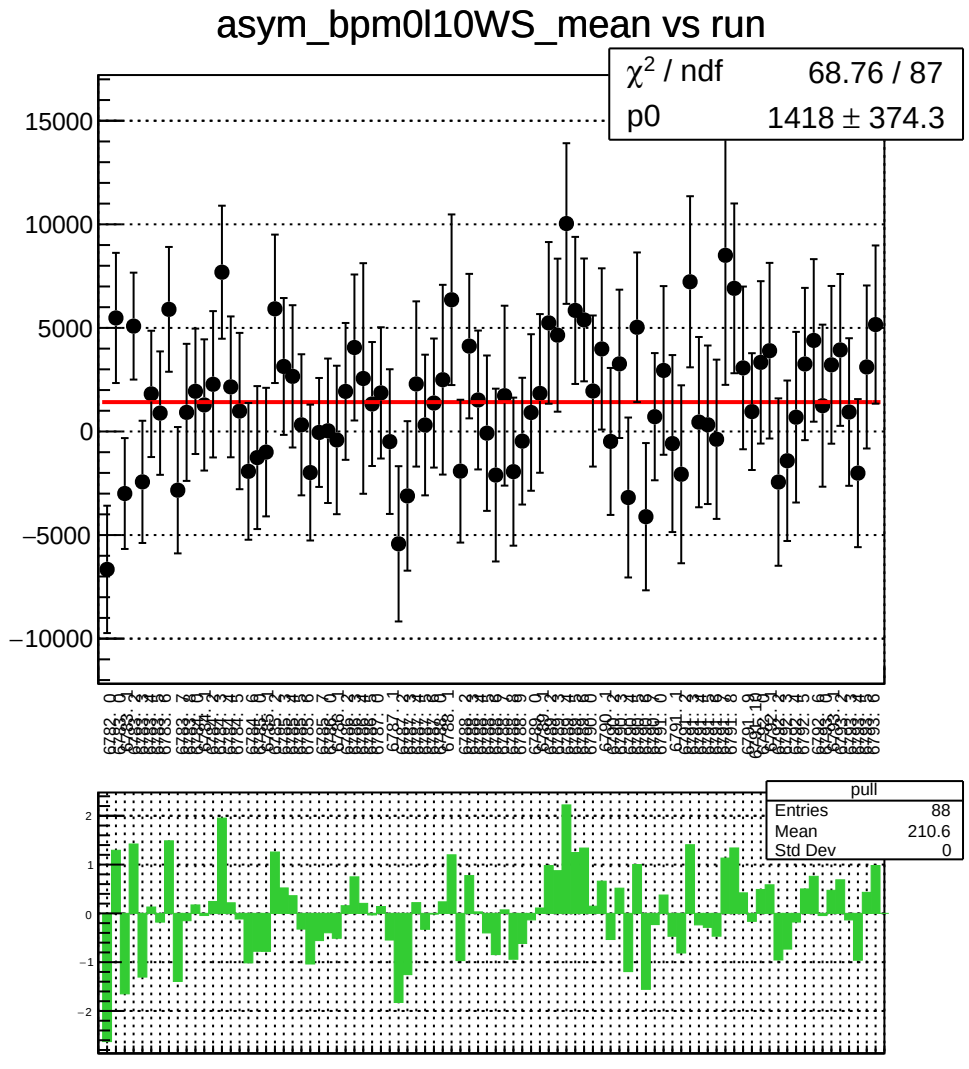

pull1D
Entries 88
Mean 0.01983
Std Dev 0.8637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

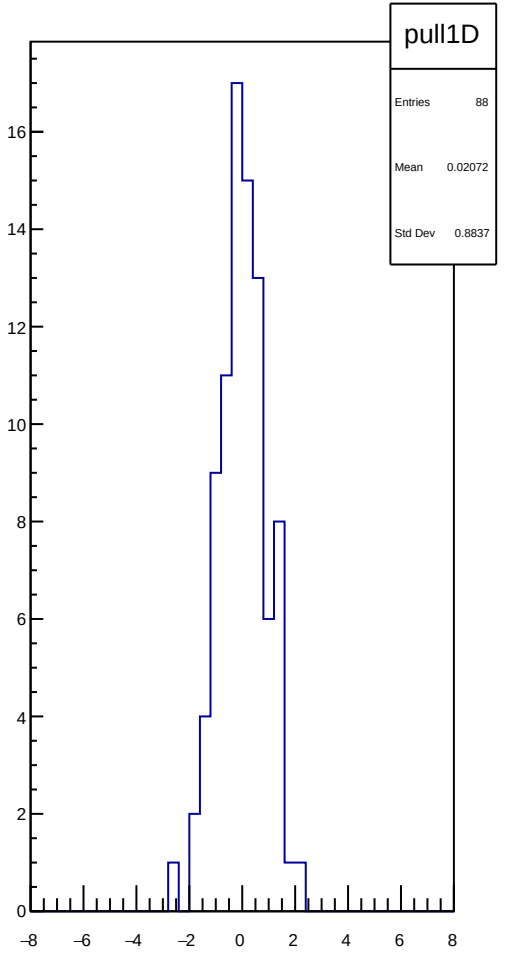

asym_bpm0l08WS_rms vs run
χ² / ndf 2.714e+04 / 87
p0 319.5 ± 0.2504
600
550
500
450
400
350
300
250
200

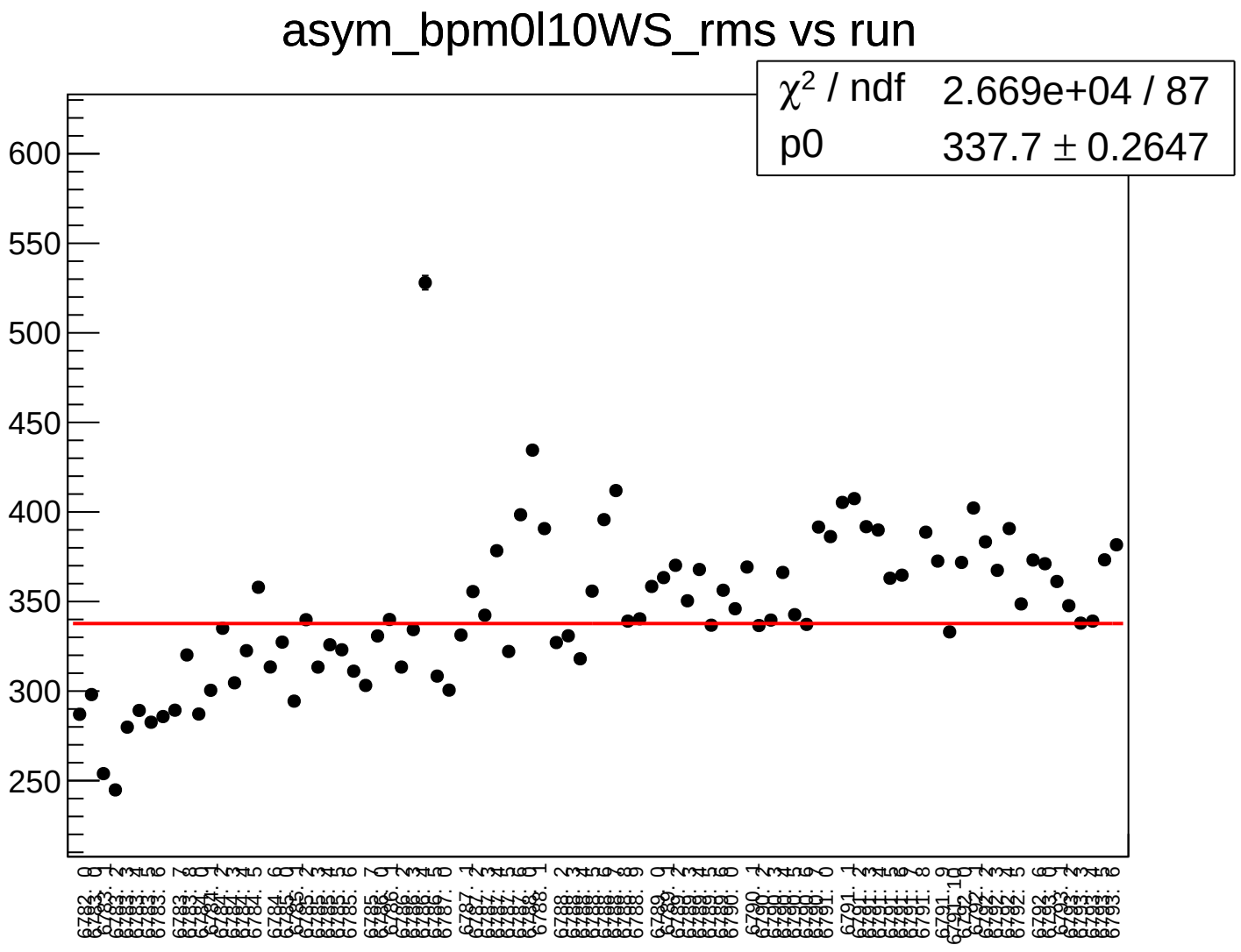

asym_bpm0l09WS_mean vs run
χ² / ndf 57.56 / 87
p0 1347 ± 349.4
pull
Entries 88
Mean 231.2
Std Dev 0

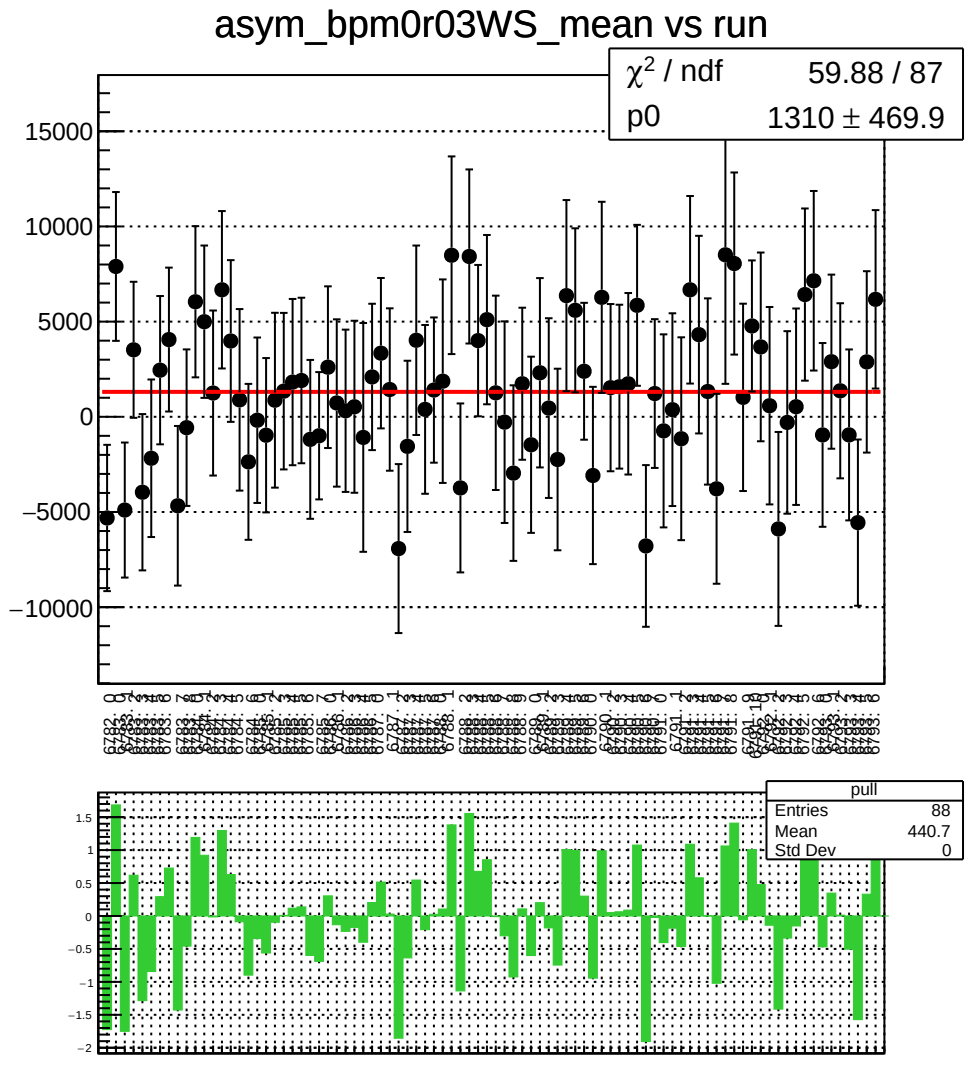

pull1D
Entries 88
Mean 0.01553
Std Dev 0.8086

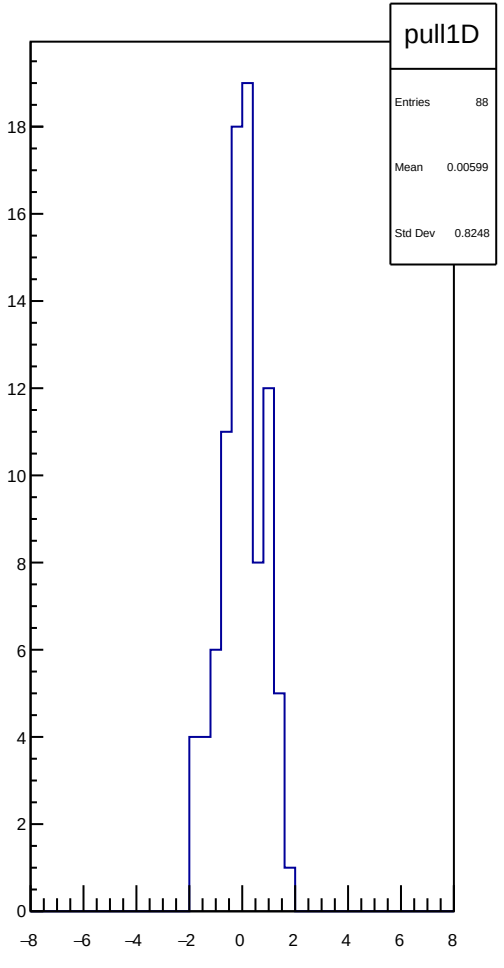

asym_bpm0l09WS_rms vs run
χ^2 / ndf 2.679e+04 / 87
p0 315.2 ± 0.247
600
550
500
450
400
350
300
250
200

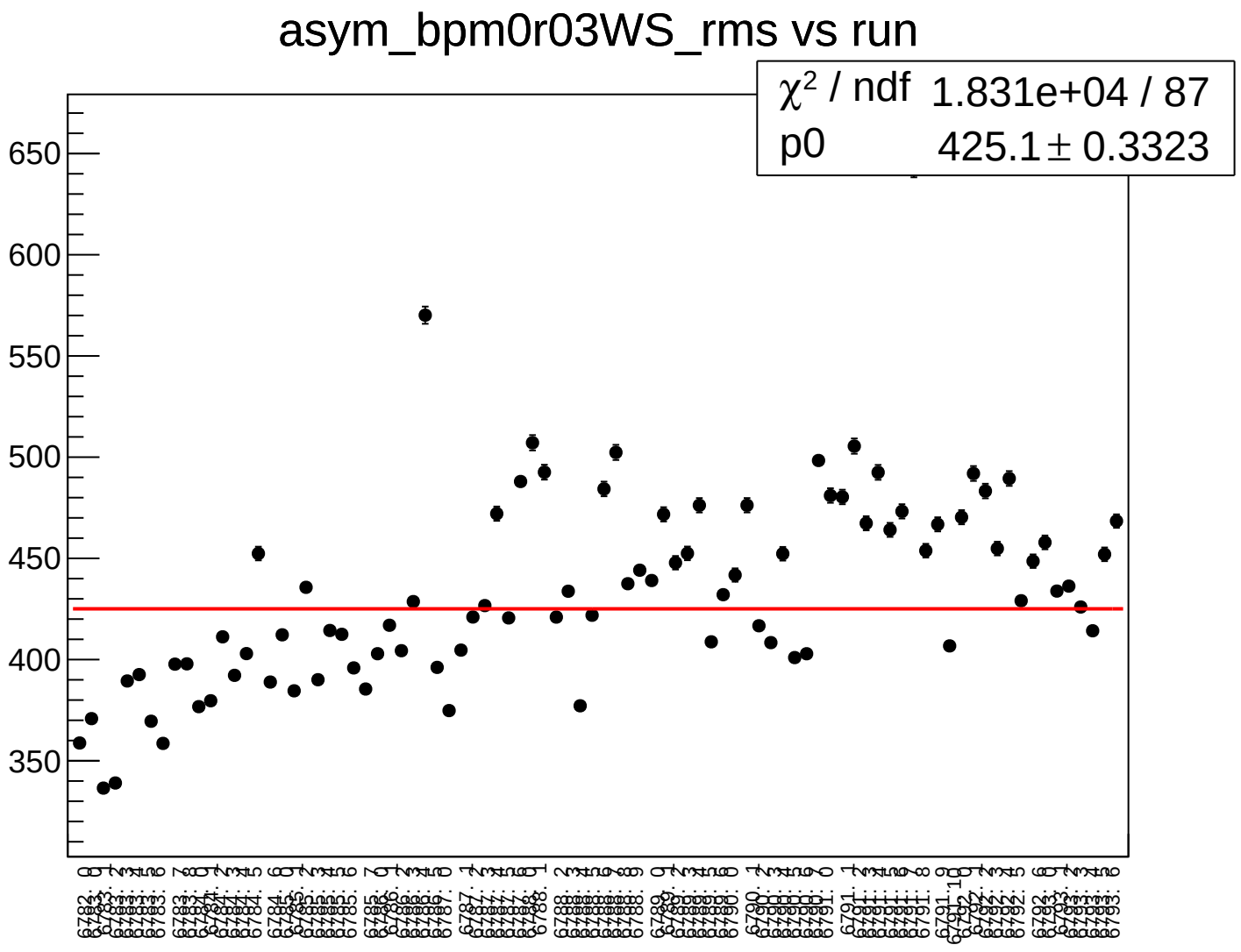

asym_bpm0l10WS_mean vs run
χ² / ndf 68.76 / 87
p0 1418 ± 374.3
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 210.6
Std Dev 0
2
1
0
−1
−2

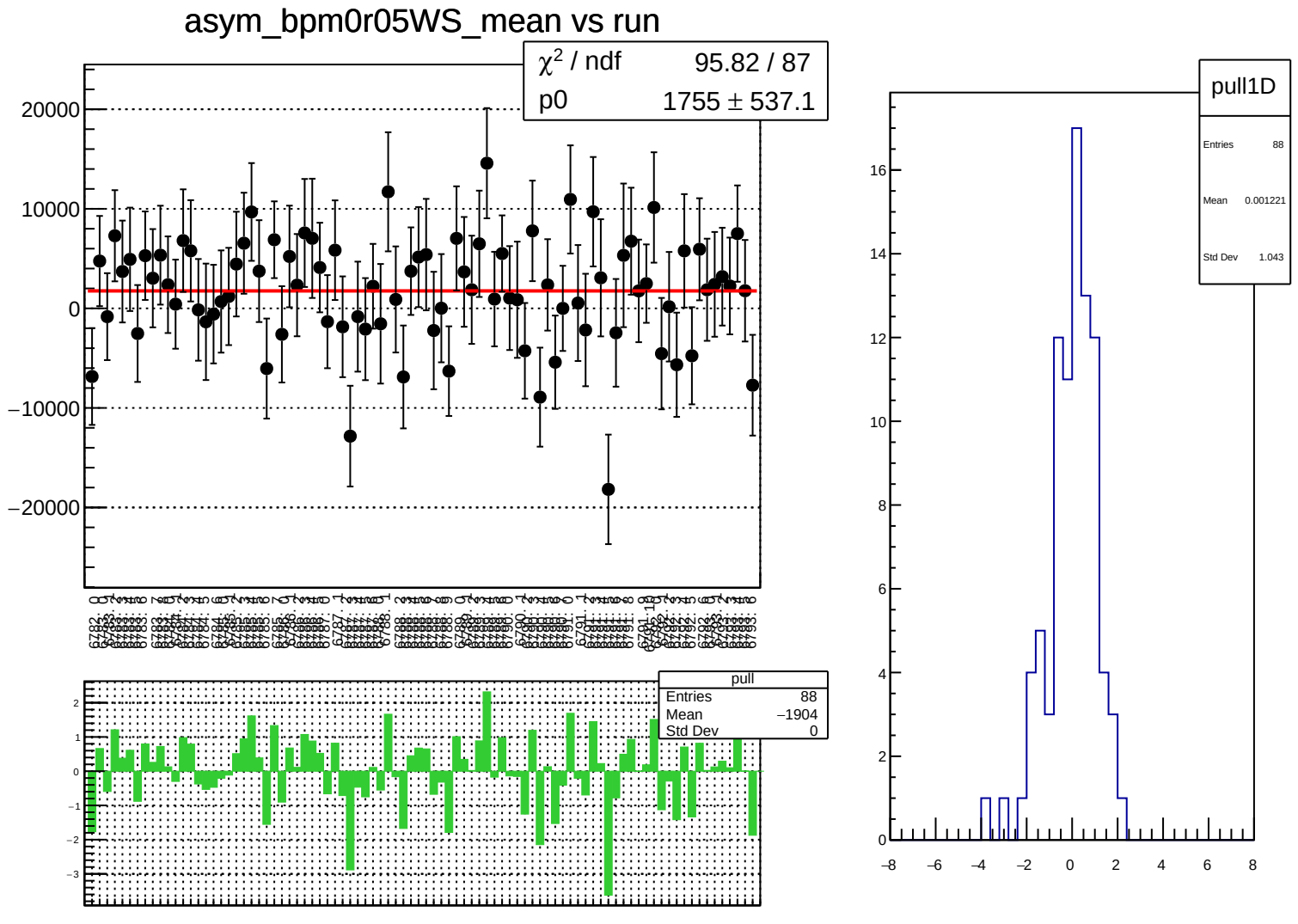

pull1D
Entries 88
Mean 0.02072
Std Dev 0.8837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

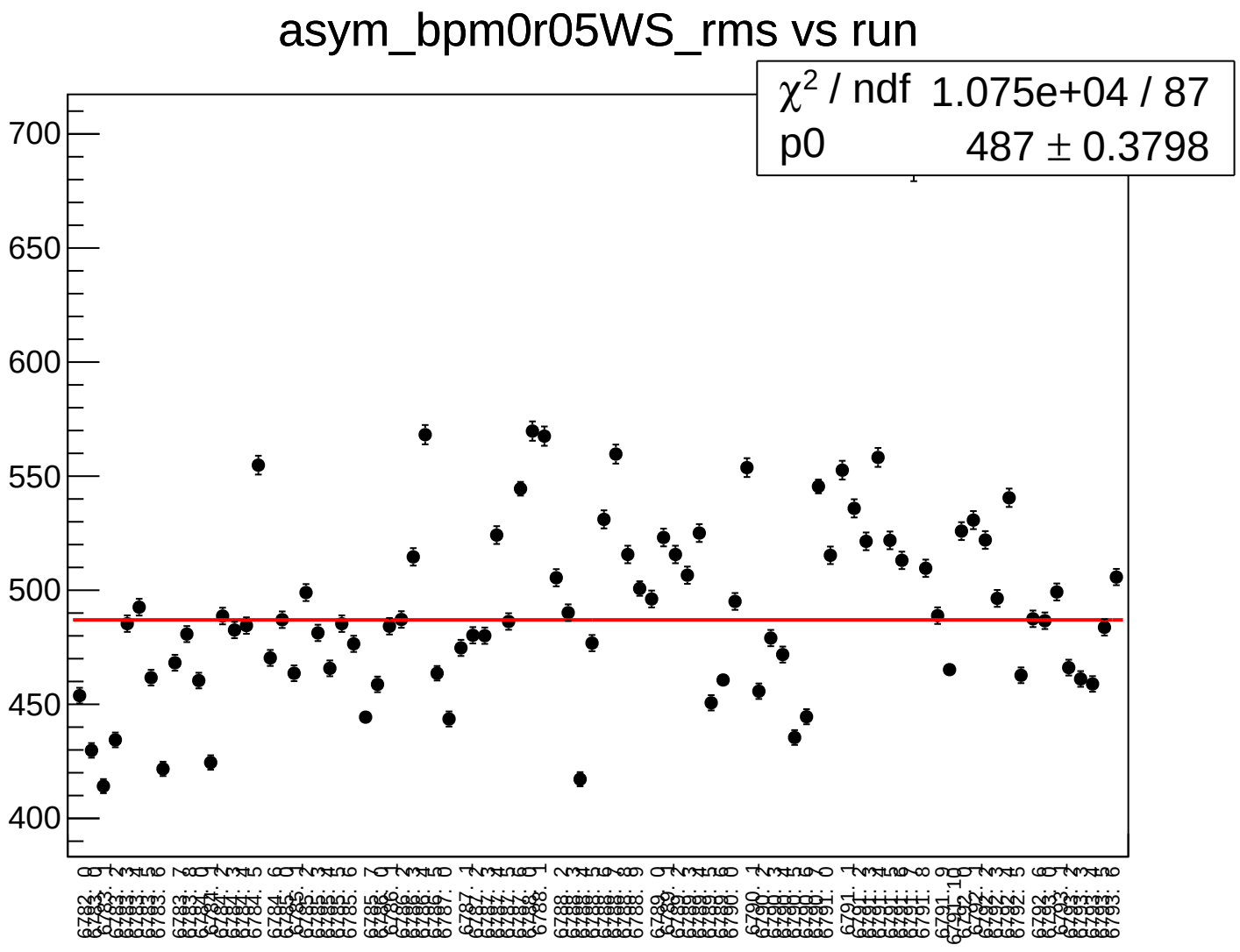

asym_bpm0l10WS_rms vs run
χ^2 / ndf 2.669e+04 / 87
p0 337.7 ± 0.2647
600
550
500
450
400
350
300
250

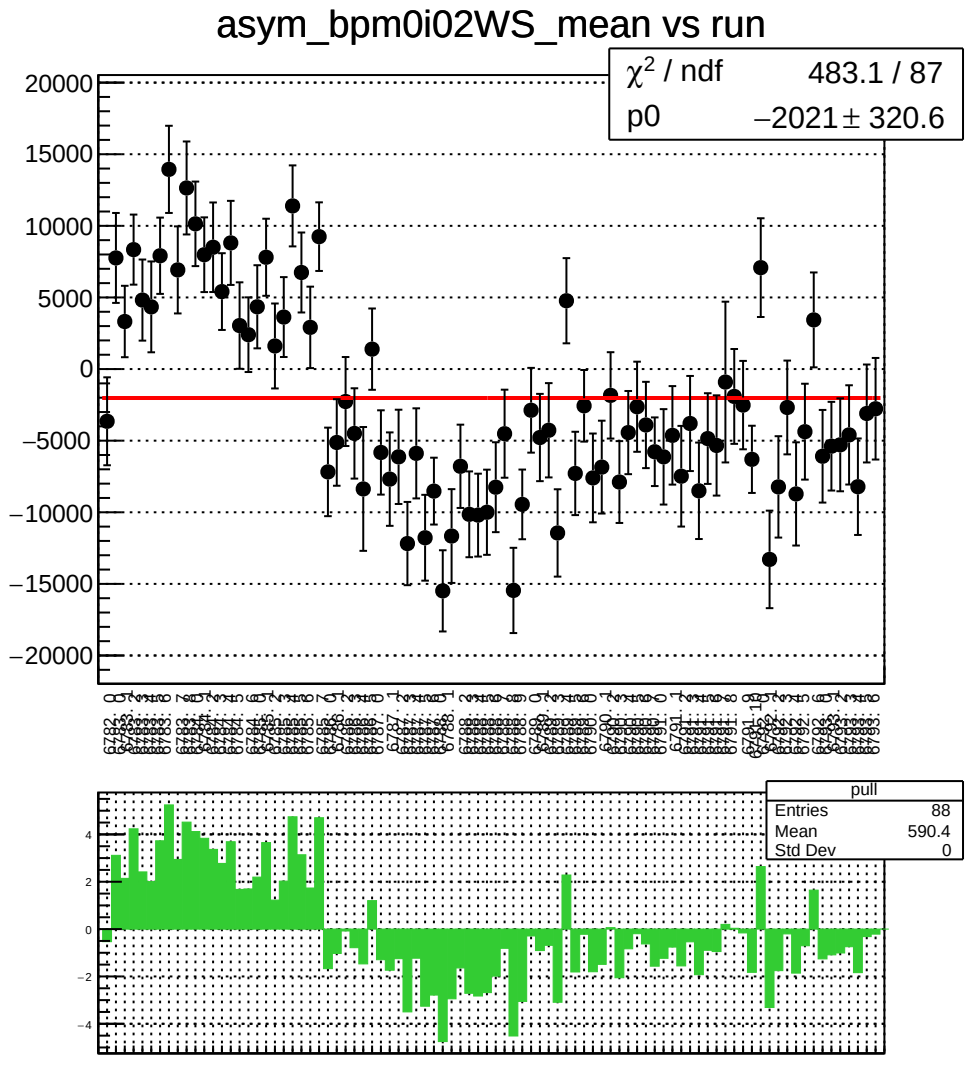

asym_bpm0r03WS_mean vs run
χ^2 / ndf 59.88 / 87
p0 1310 ± 469.9
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 440.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

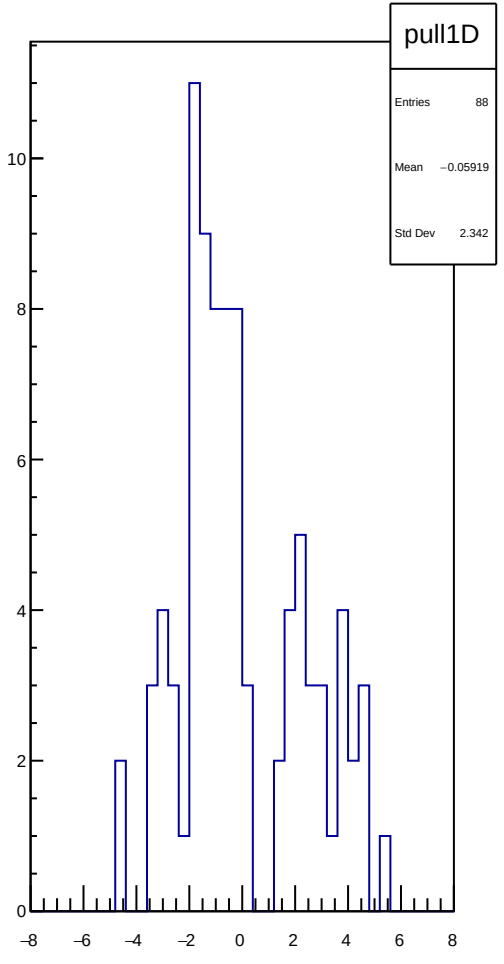

pull1D
Entries 88
Mean 0.00599
Std Dev 0.8248
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

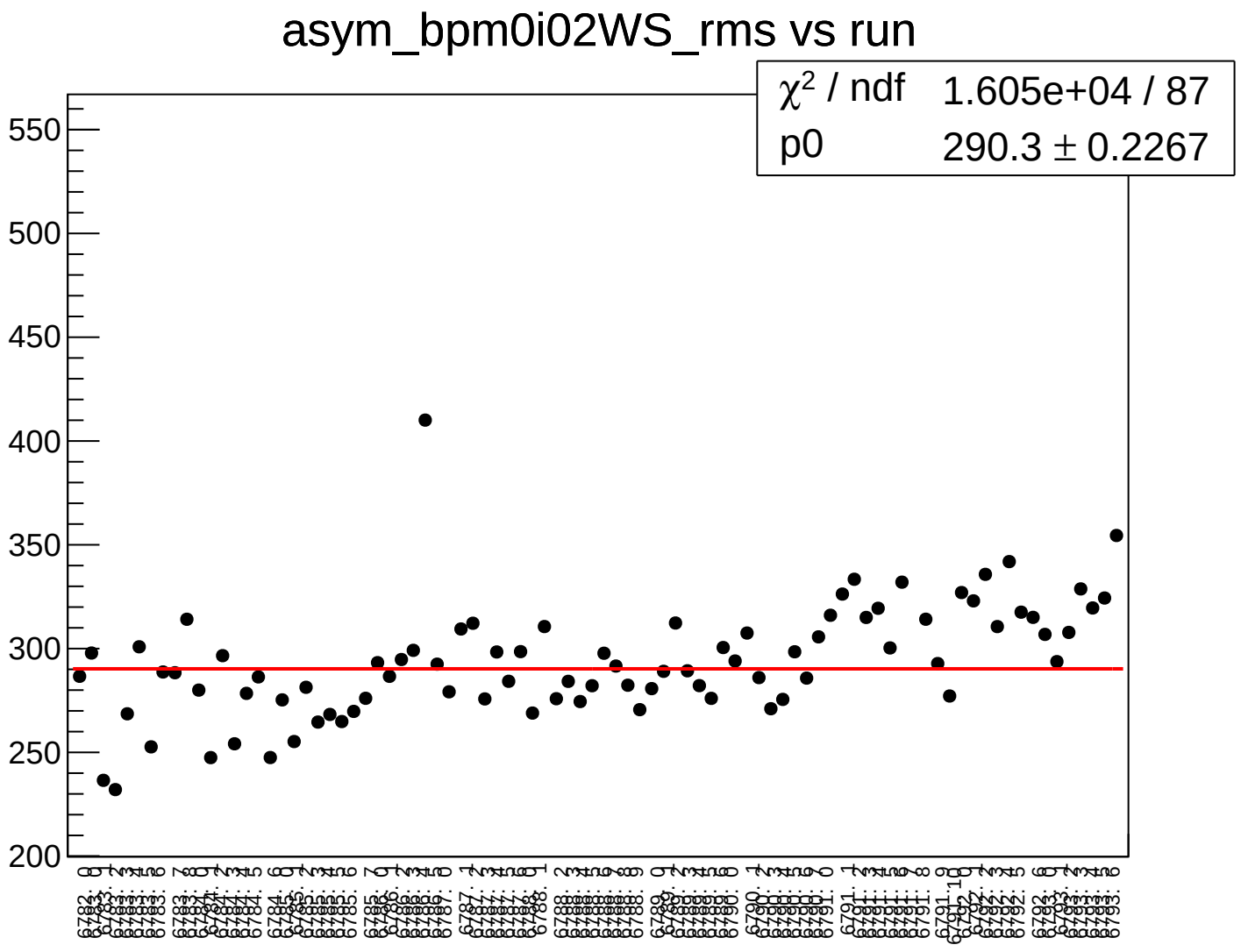

asym_bpm0r03WS_rms vs run
χ² / ndf 1.831e+04 / 87
p0 425.1 ± 0.3323
650
600
550
500
450
400
350

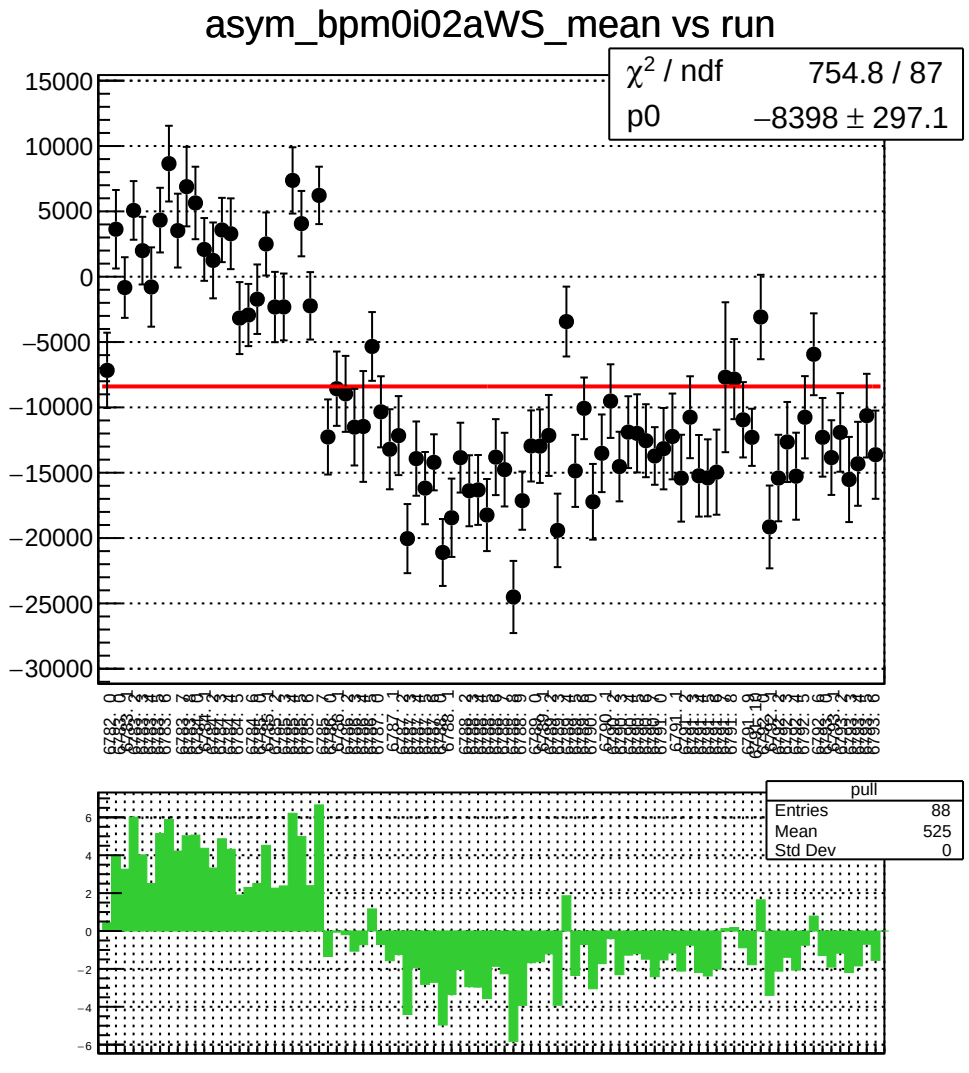

asym_bpm0r05WS_mean vs run
χ² / ndf 95.82 / 87
p0 1755 ± 537.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −1904
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.001221
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

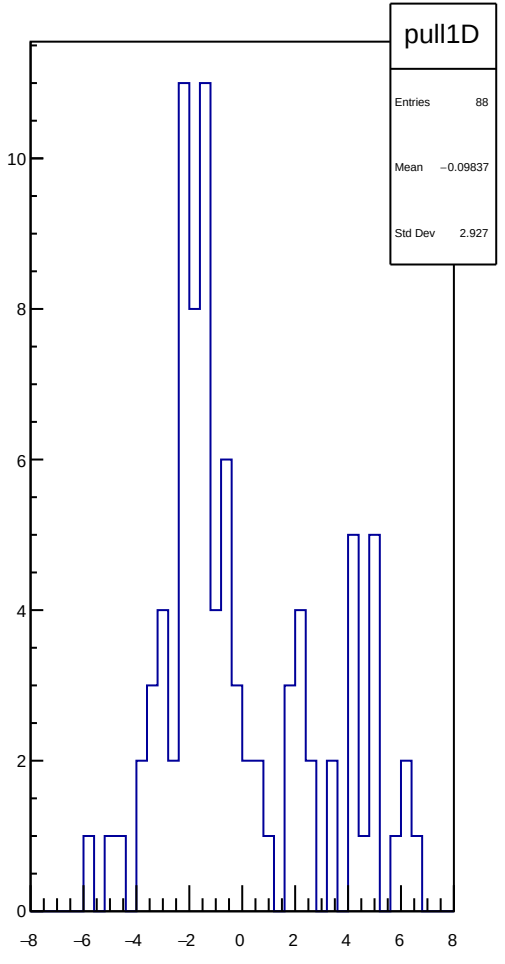

asym_bpm0r05WS_rms vs run
χ² / ndf 1.075e+04 / 87
p0 487 ± 0.3798
700
650
600
550
500
450
400

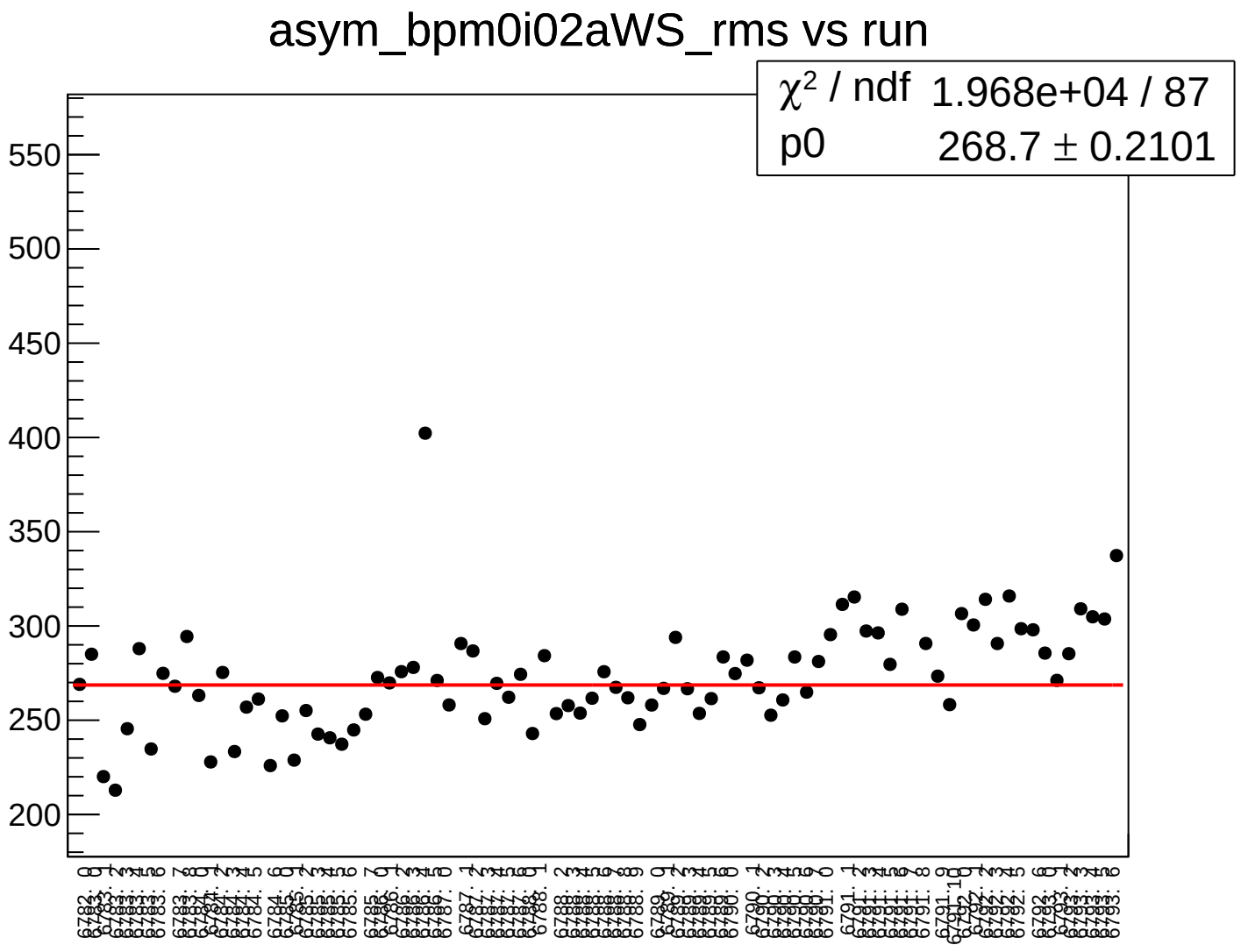

asym_bpm0i02WS_mean vs run
χ² / ndf 483.1 / 87
p0 −2021 ± 320.6
pull
Entries 88
Mean 590.4
Std Dev 0

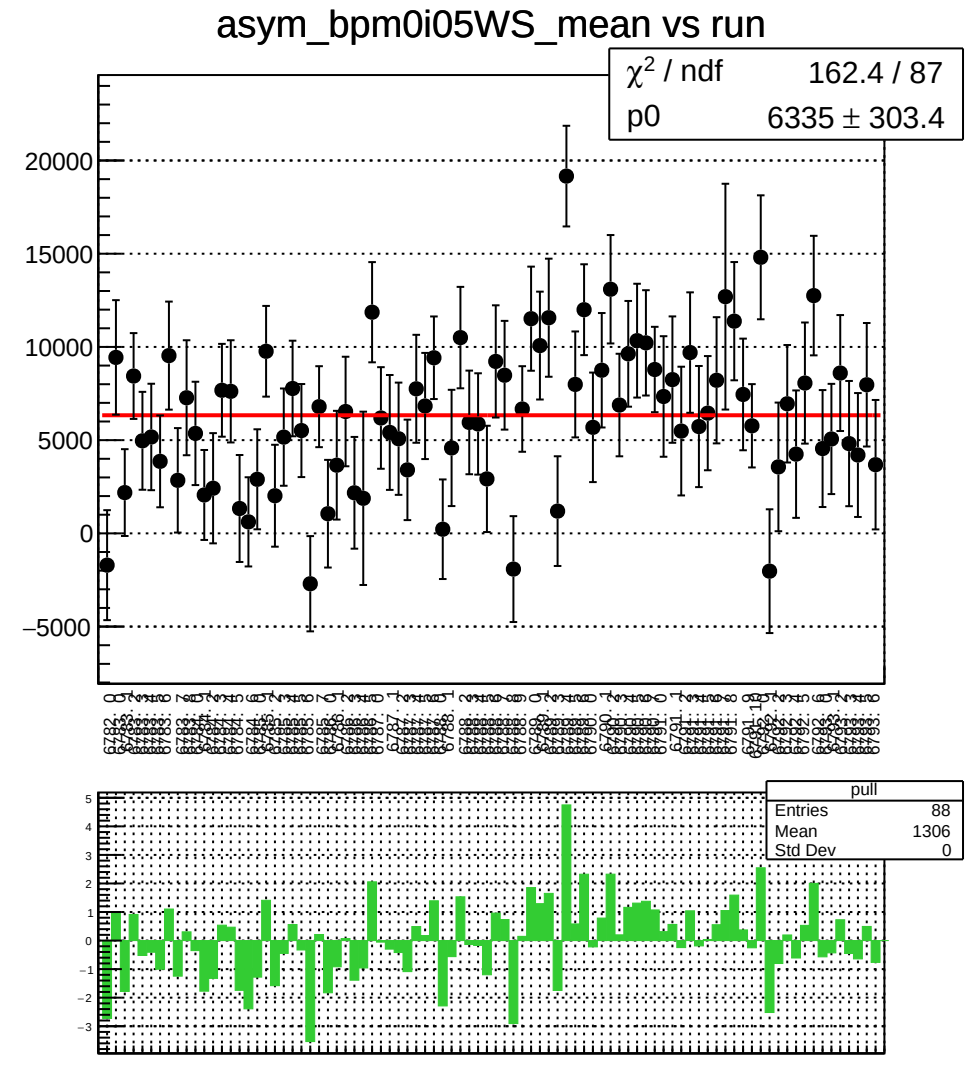

pull1D
Entries 88
Mean −0.05919
Std Dev 2.342

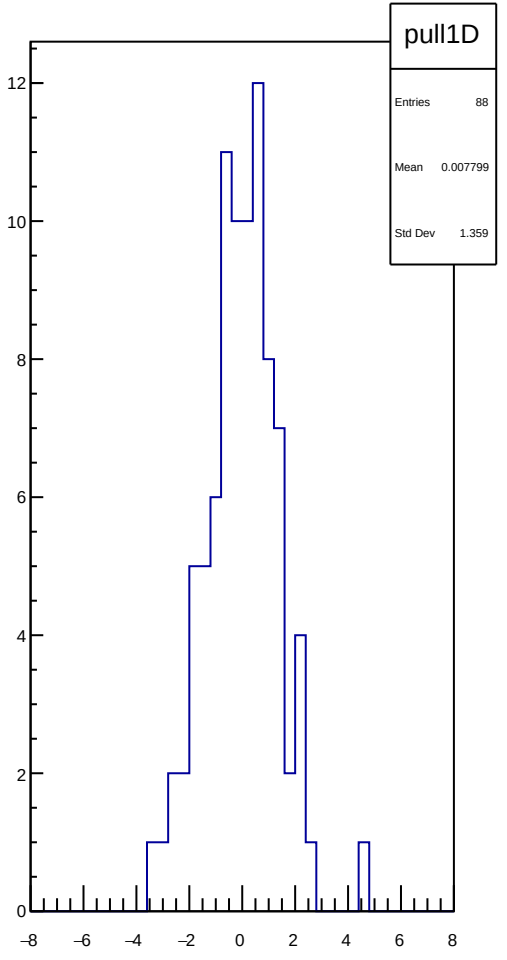

asym_bpm0i02WS_rms vs run
χ² / ndf 1.605e+04 / 87
p0 290.3 ± 0.2267
550
500
450
400
350
300
250
200

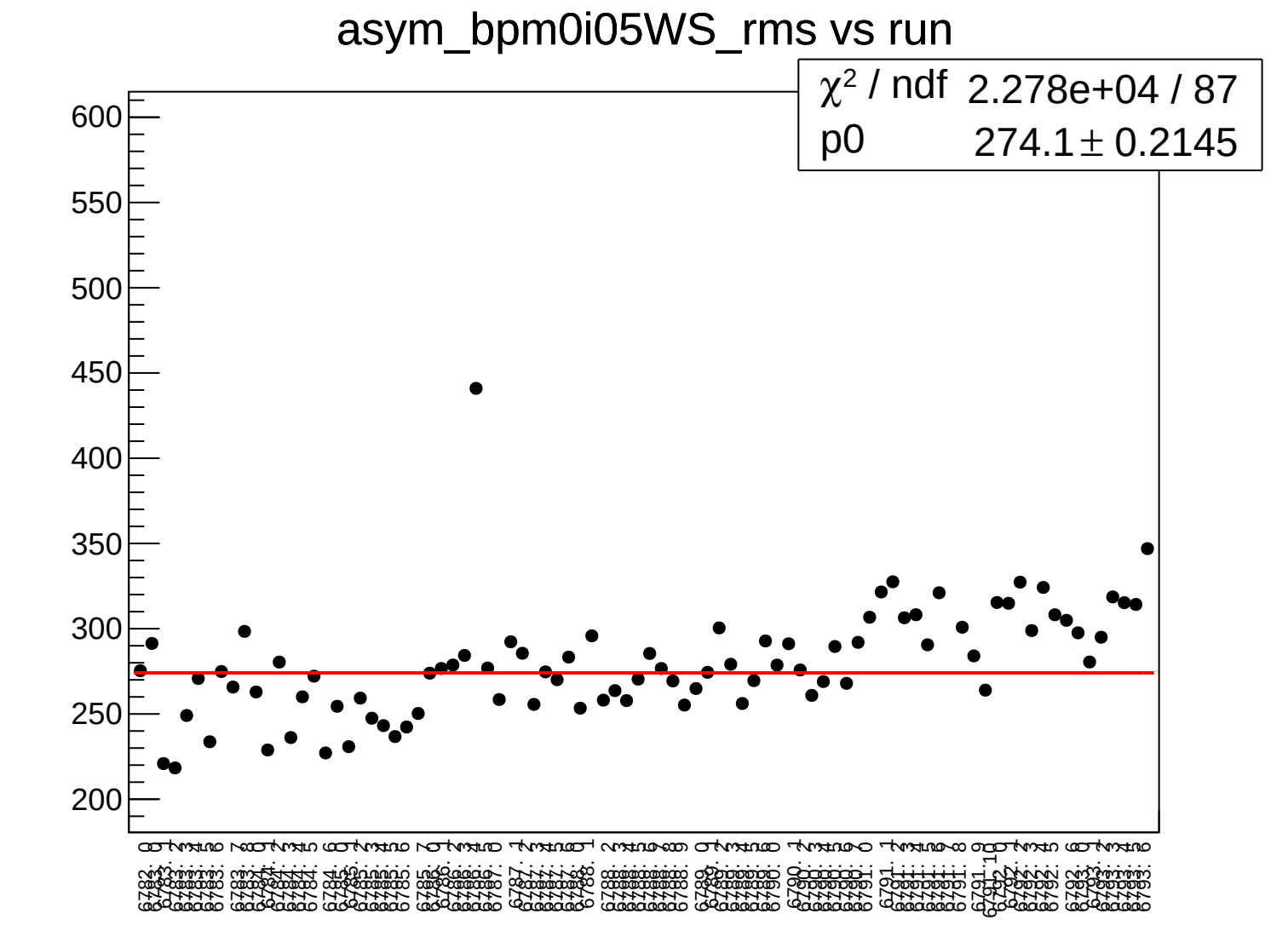

asym_bpm0i02aWS_mean vs run
χ² / ndf 754.8 / 87
p0 −8398 ± 297.1
pull
Entries 88
Mean 525
Std Dev 0

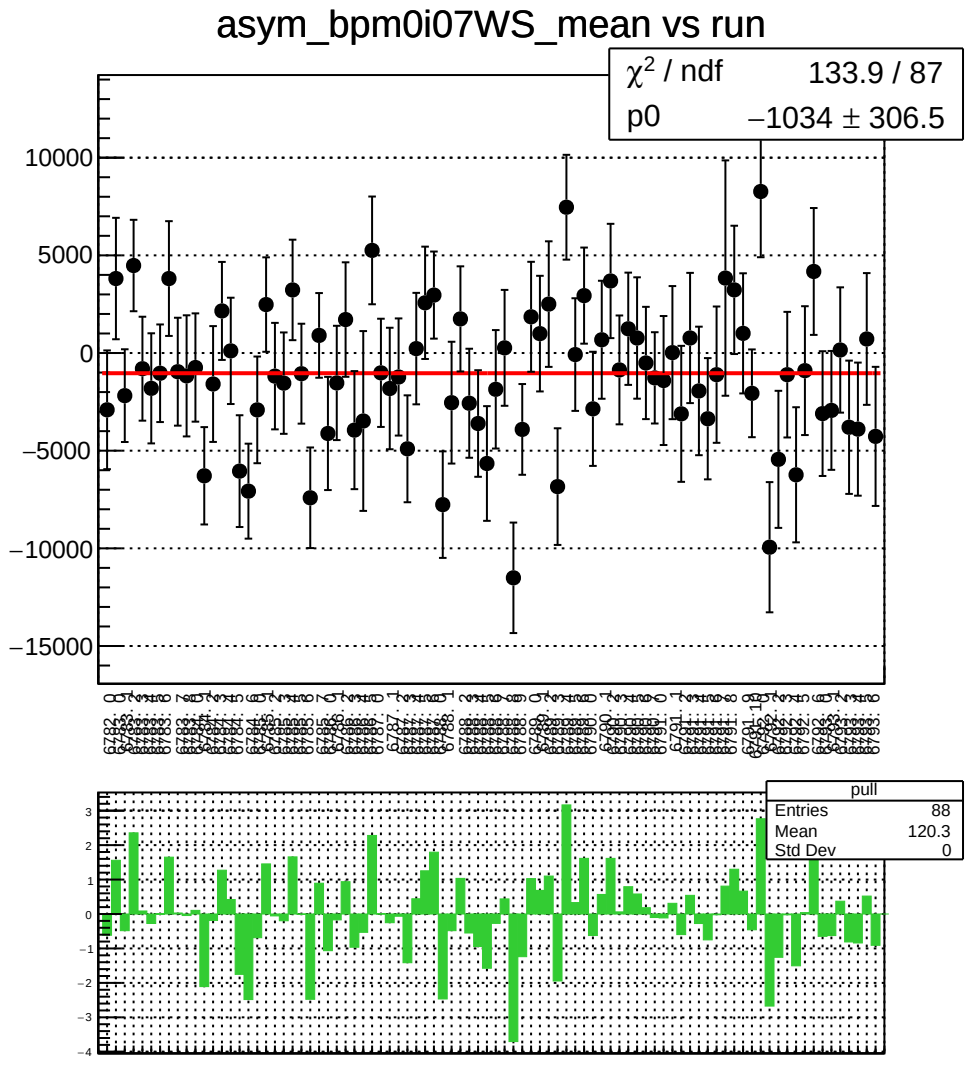

pull1D
Entries 88
Mean −0.09837
Std Dev 2.927

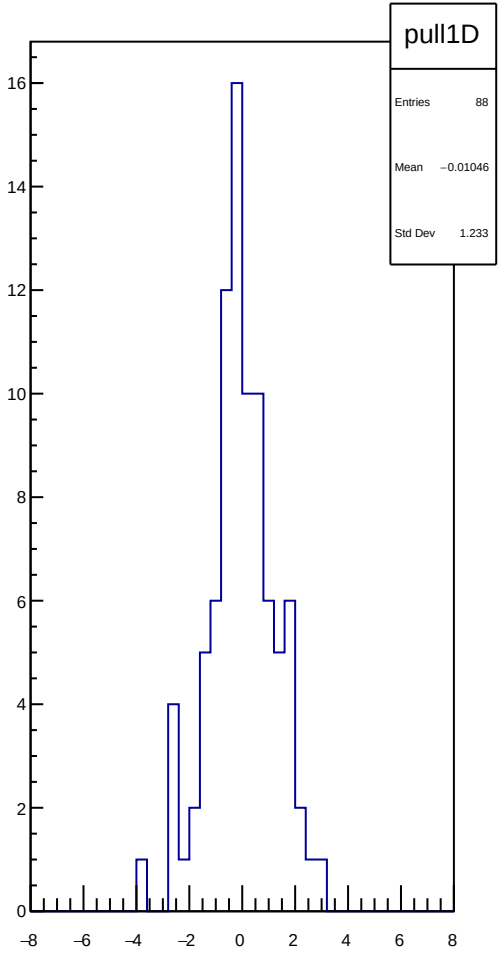

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.968e+04 / 87
p0 268.7 ± 0.2101
550
500
450
400
350
300
250
200

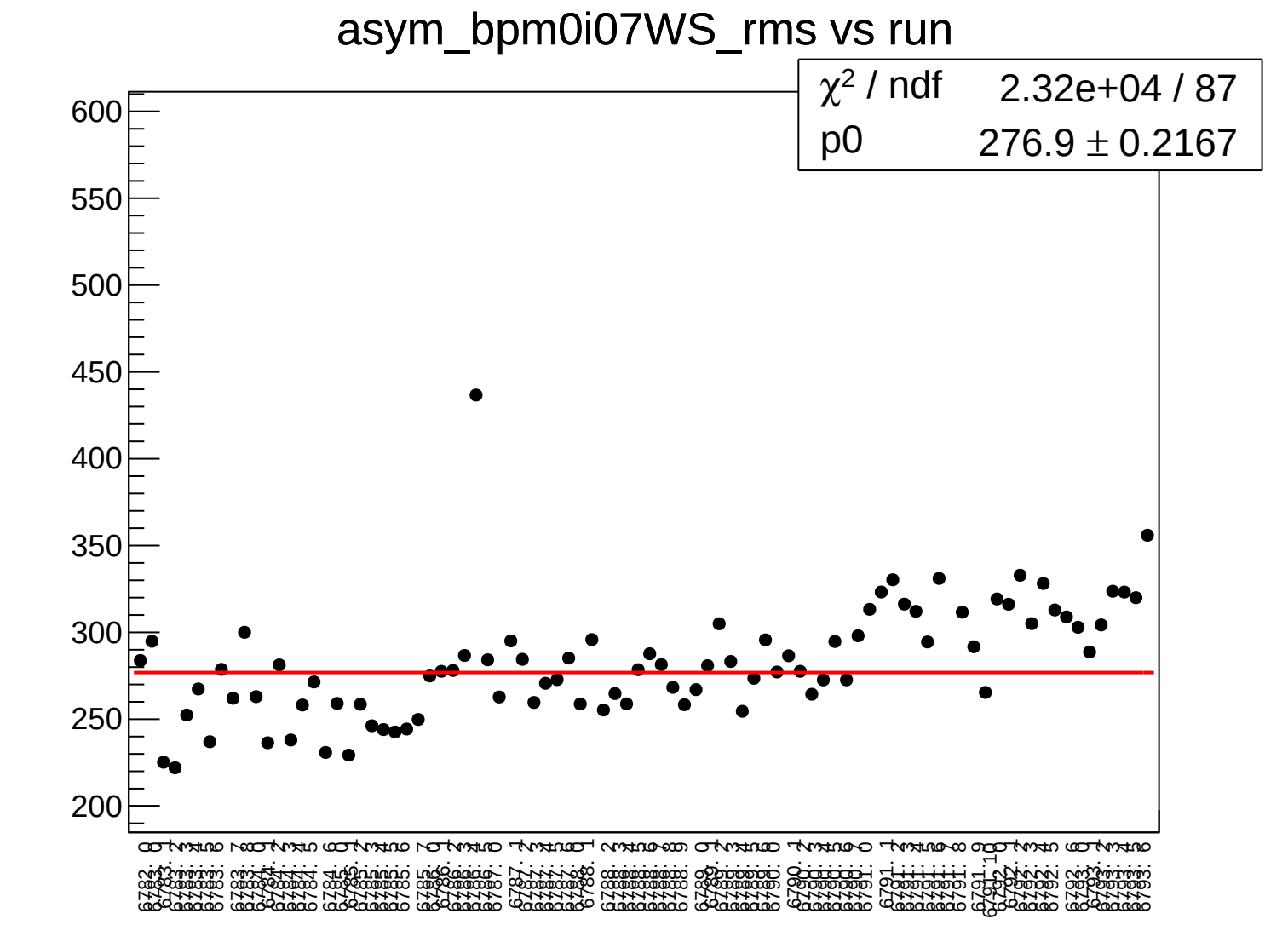

asym_bpm0i05WS_mean vs run
χ² / ndf 162.4 / 87
p0 6335 ± 303.4
20000
15000
10000
5000
0
−5000
pull
Entries 88
Mean 1306
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

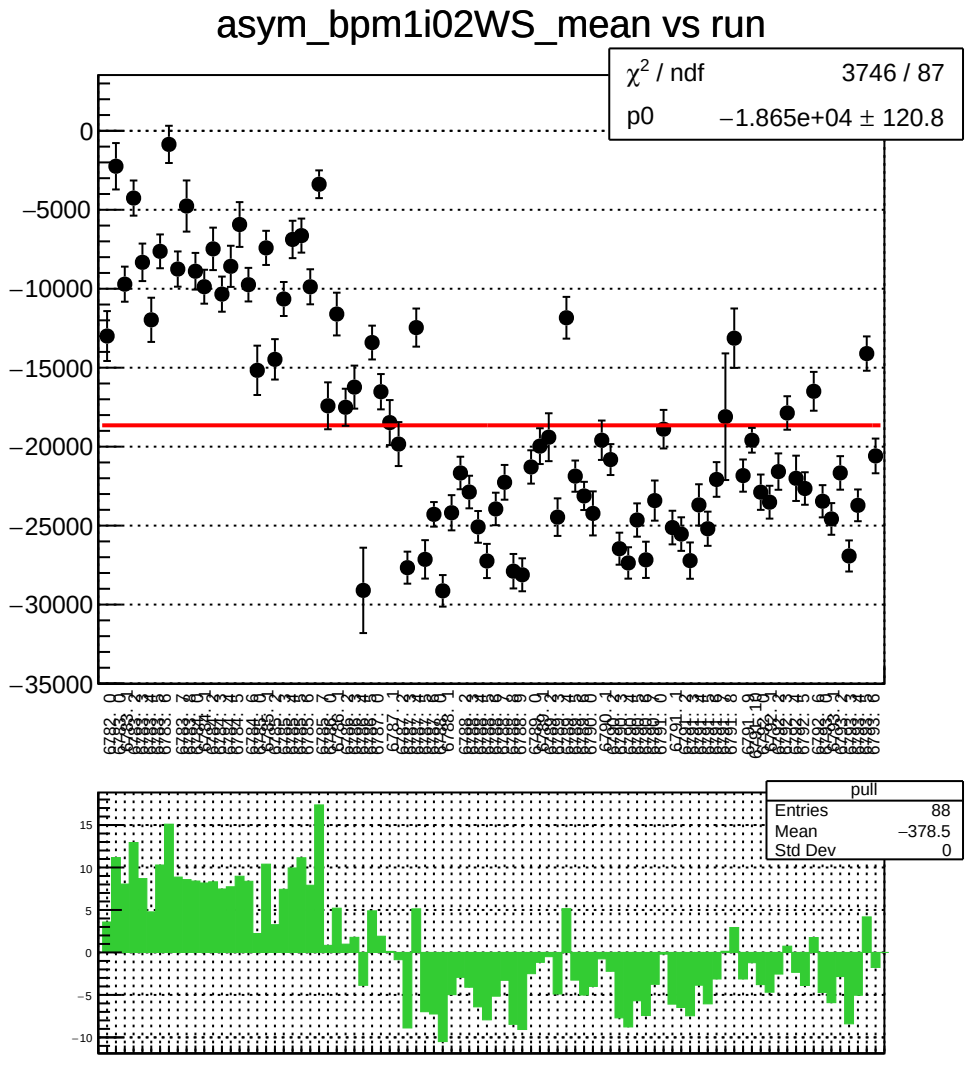

pull1D
Entries 88
Mean 0.007799
Std Dev 1.359
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

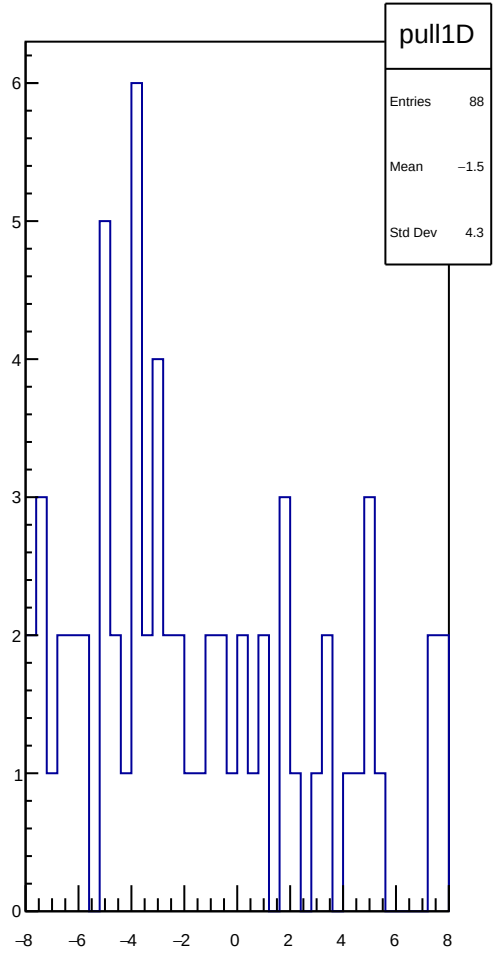

asym_bpm0i05WS_rms vs run
χ² / ndf 2.278e+04 / 87
p0 274.1 ± 0.2145
600
550
500
450
400
350
300
250
200

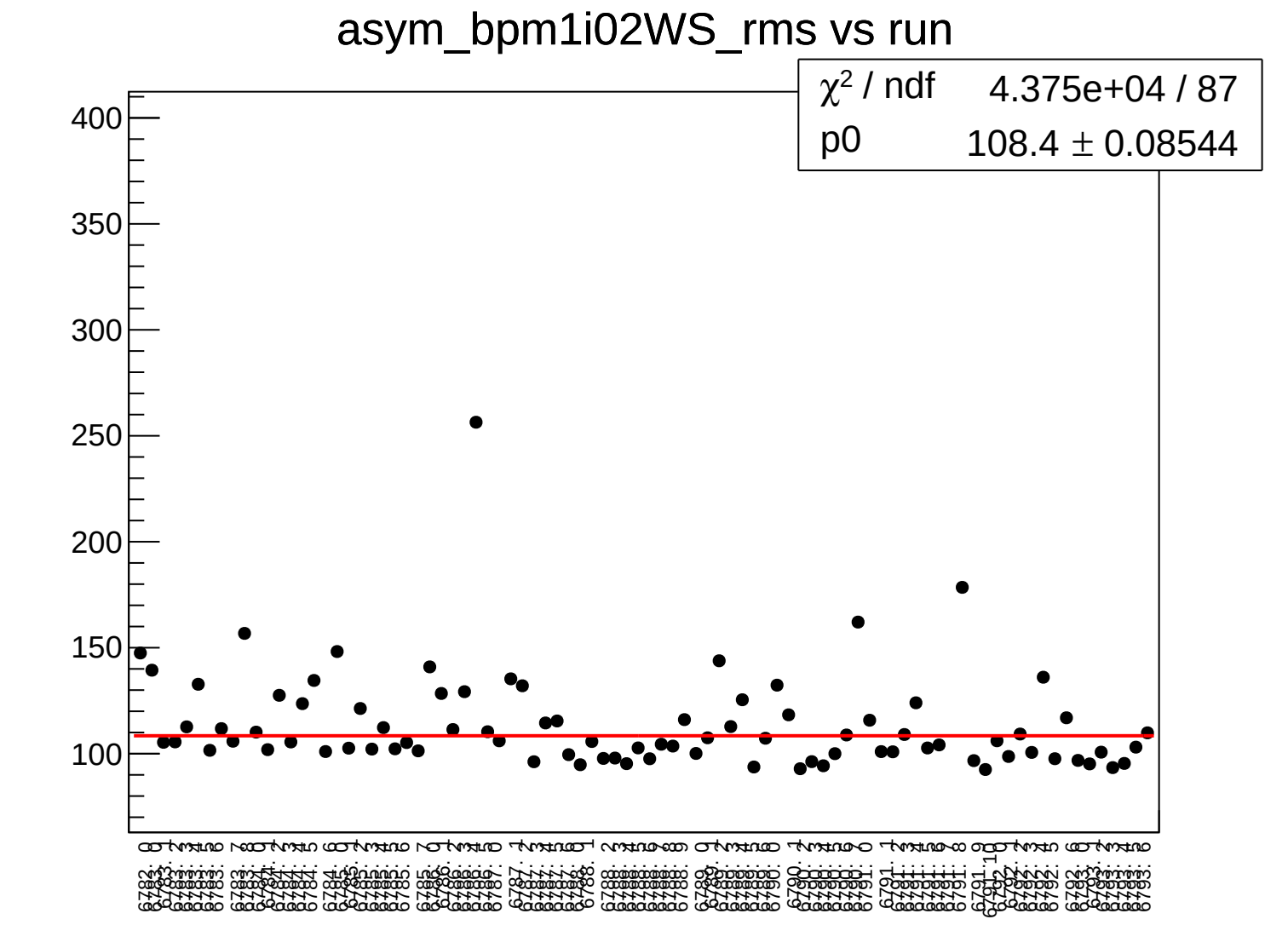

asym_bpm0i07WS_mean vs run
χ² / ndf 133.9 / 87
p0 −1034 ± 306.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 120.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4

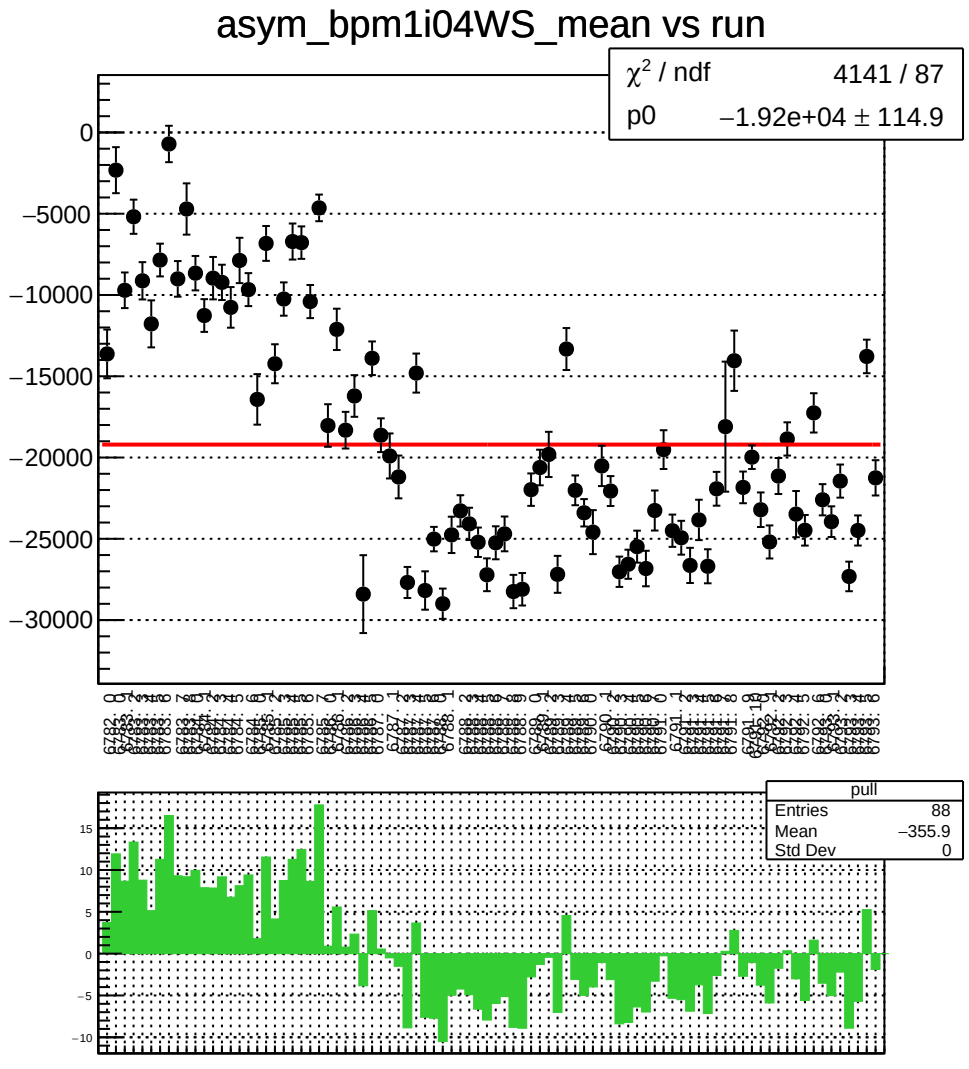

pull1D
Entries 88
Mean −0.01046
Std Dev 1.233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

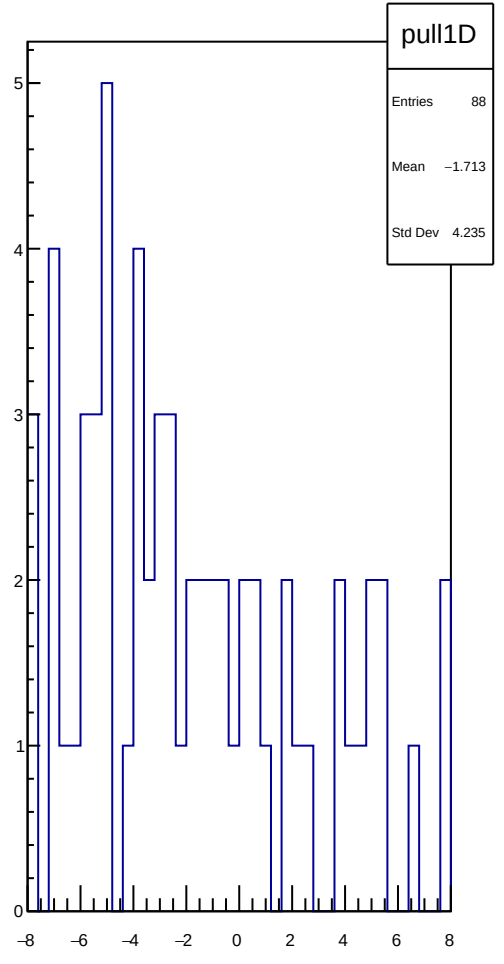

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.32e+04 / 87
p0 276.9 ± 0.2167
600
550
500
450
400
350
300
250
200

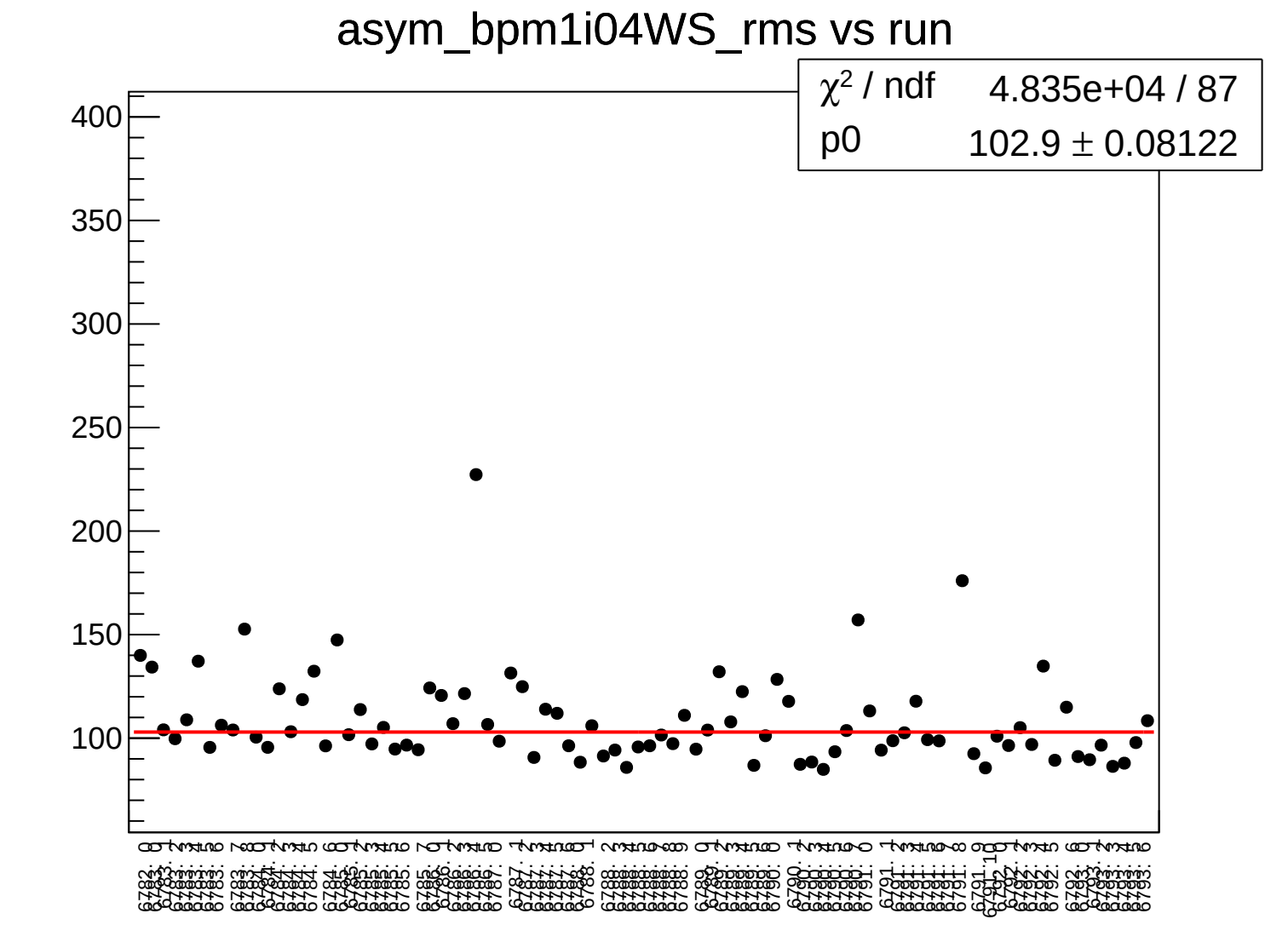

asym_bpm1i02WS_mean vs run
χ² / ndf 3746 / 87
p0 −1.865e+04 ± 120.8
pull
Entries 88
Mean −378.5
Std Dev 0

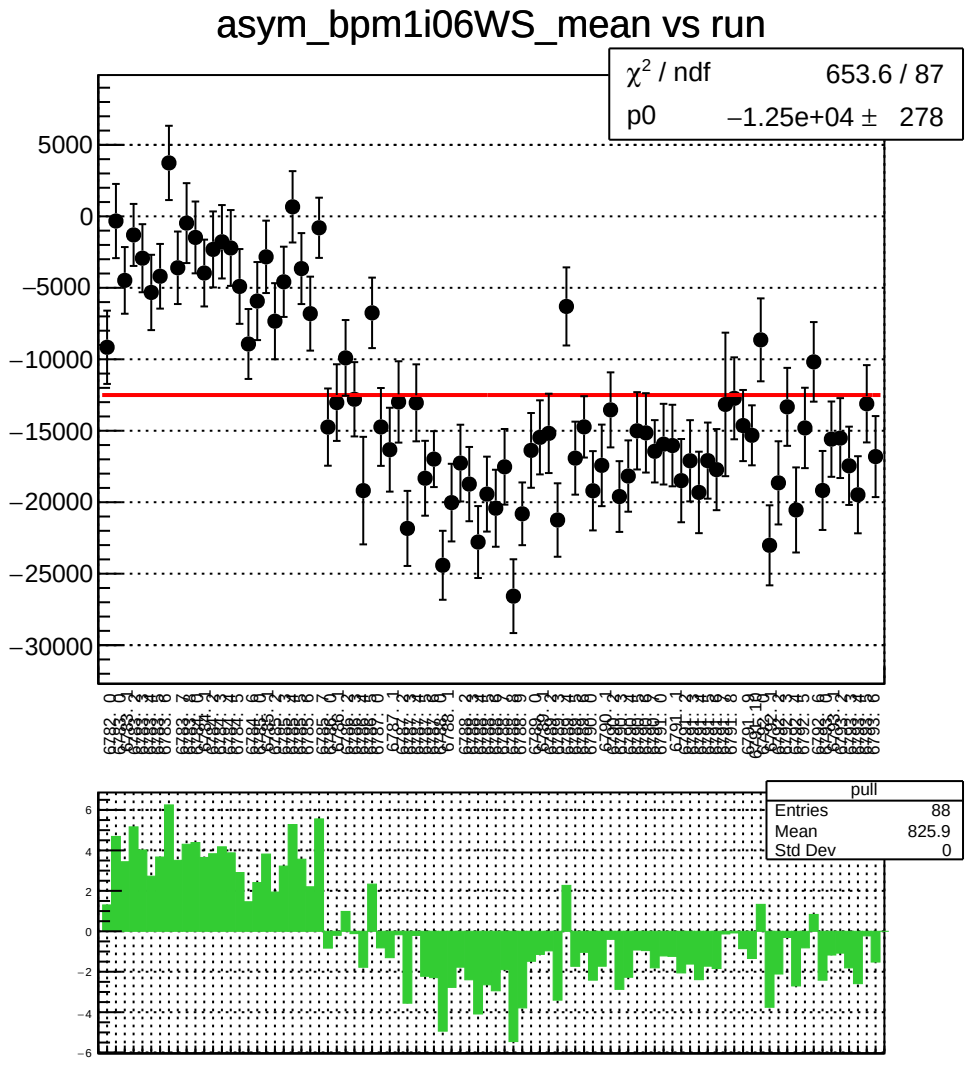

pull1D
Entries 88
Mean −1.5
Std Dev 4.3

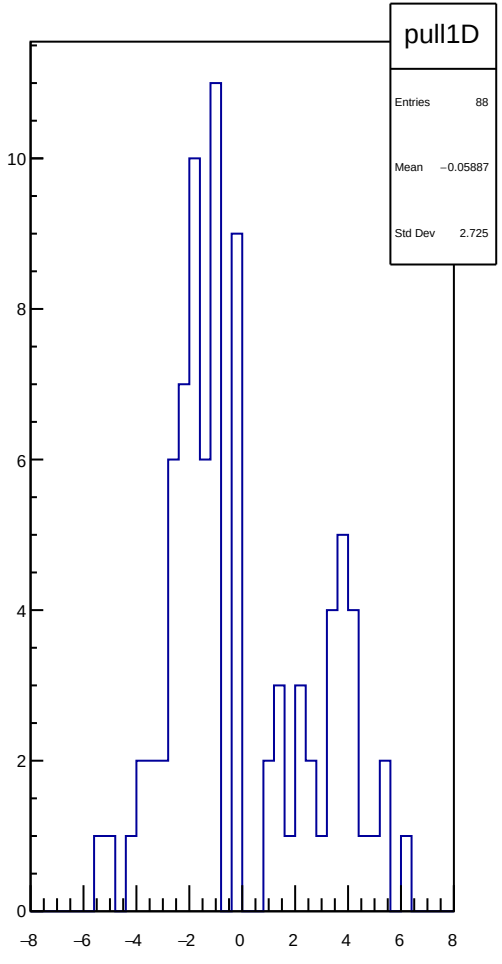

asym_bpm1i02WS_rms vs run
χ² / ndf 4.375e+04 / 87
p0 108.4 ± 0.08544
400
350
300
250
200
150
100

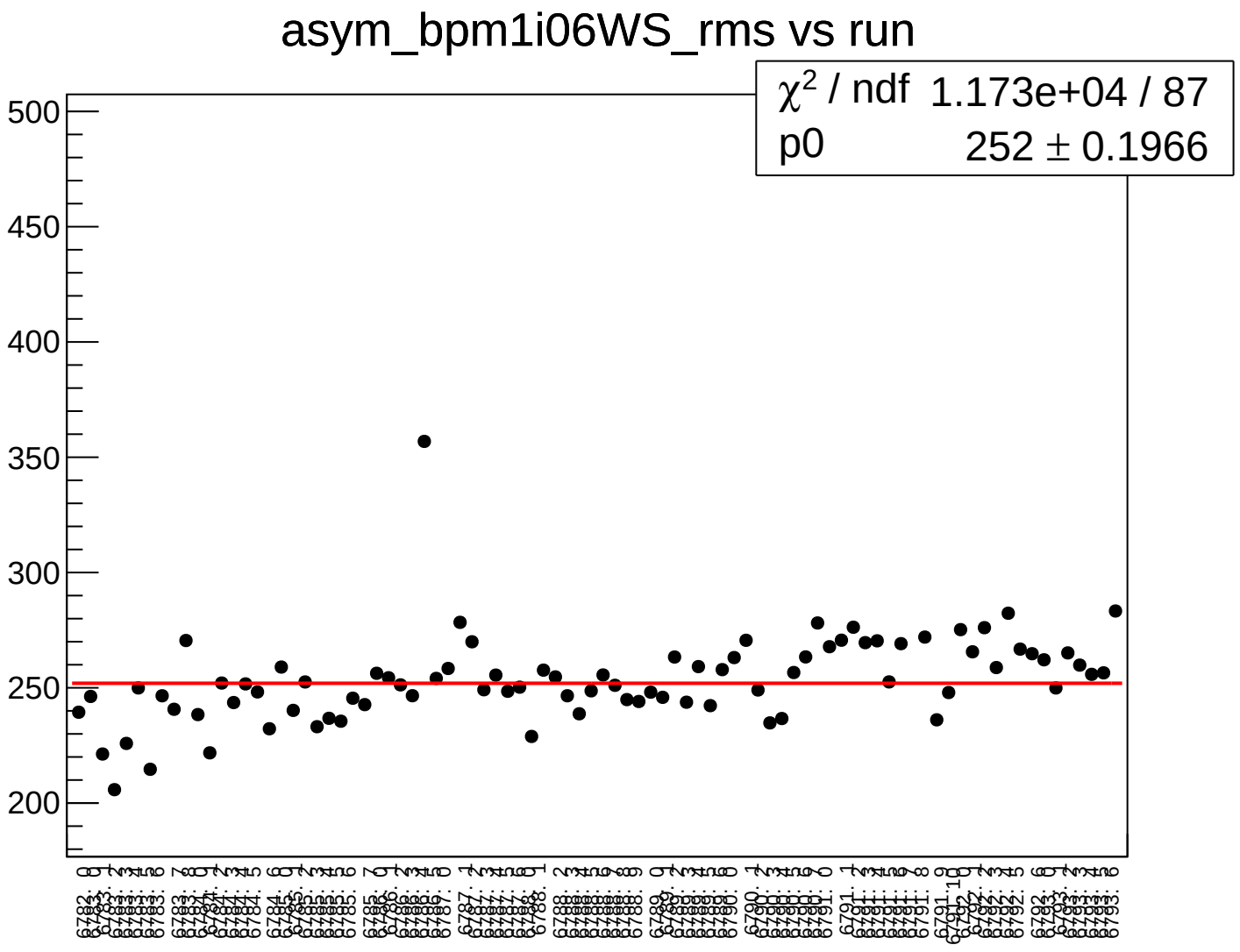

asym_bpm1i04WS_mean vs run
χ² / ndf 4141 / 87
p0 −1.92e+04 ± 114.9
0
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 88
Mean −355.9
Std Dev 0
15
10
5
0
−5
−10

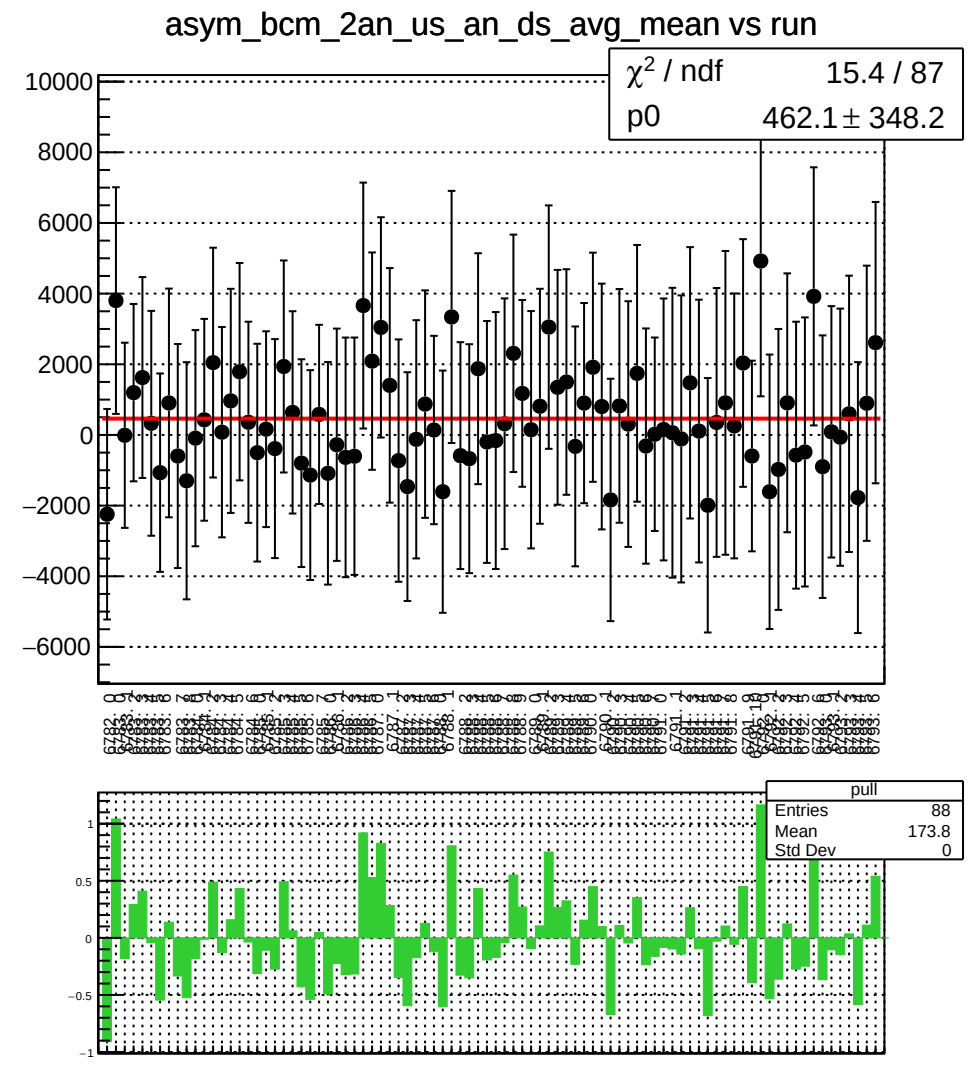

pull1D
Entries 88
Mean −1.713
Std Dev 4.235
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

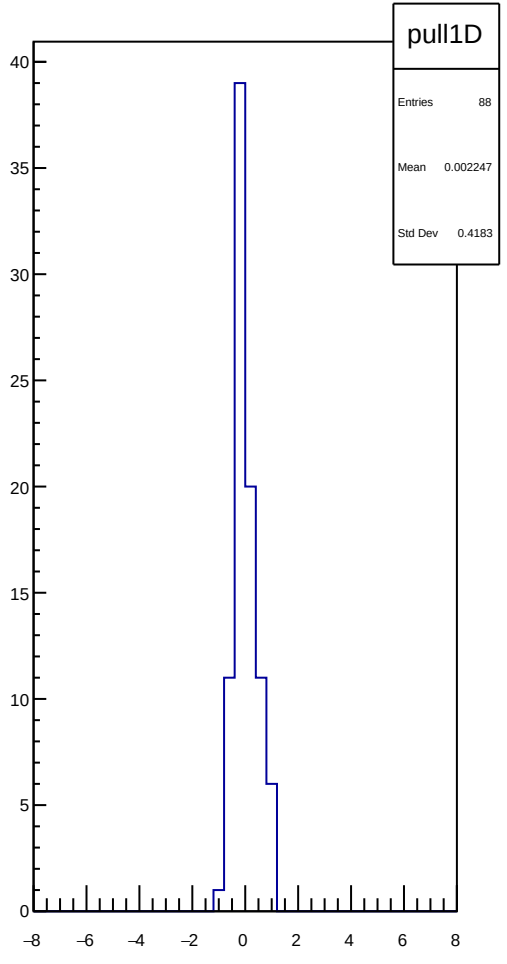

asym_bpm1i04WS_rms vs run
χ² / ndf 4.835e+04 / 87
p0 102.9 ± 0.08122
400
350
300
250
200
150
100

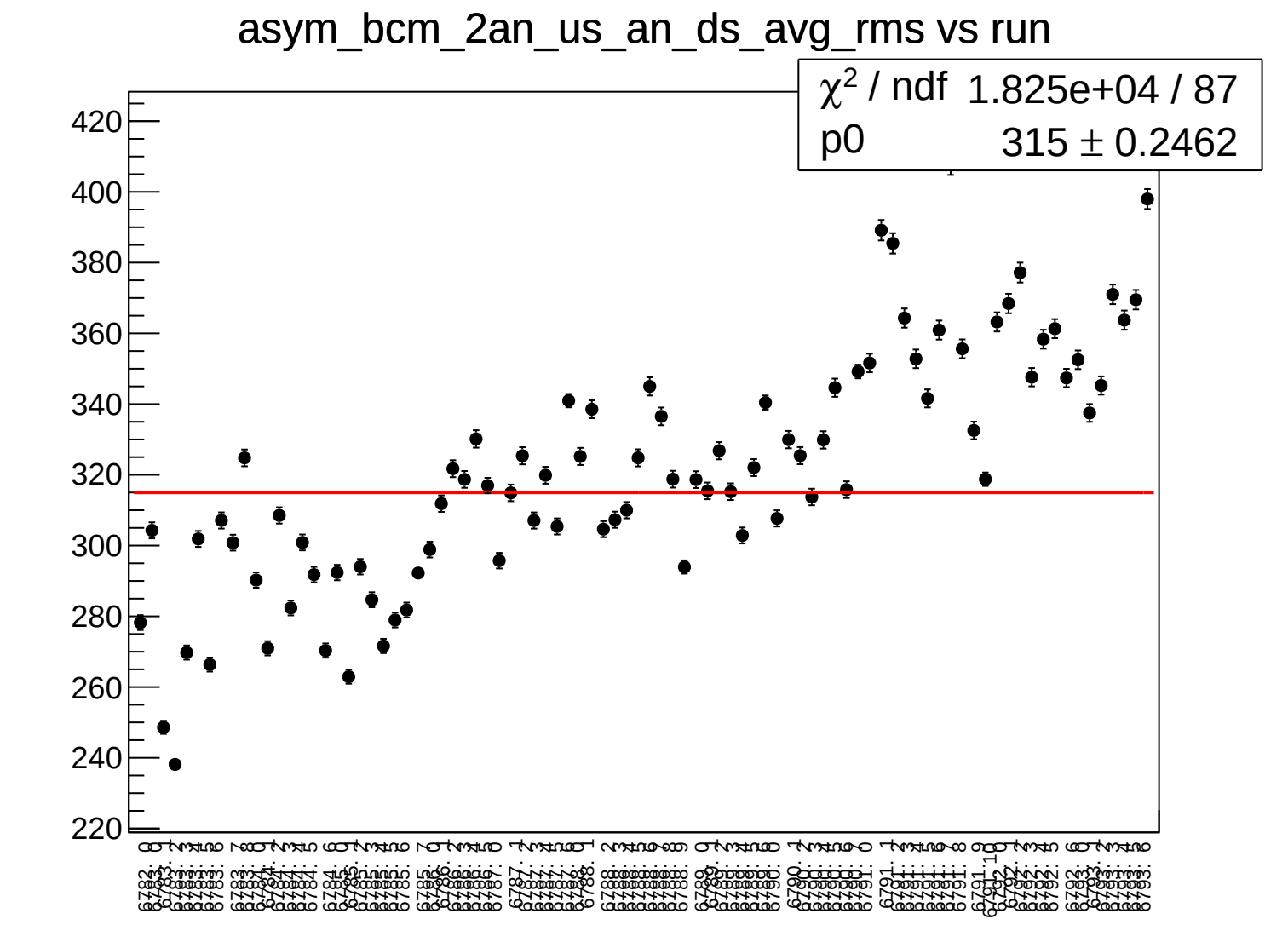

asym_bpm1i06WS_mean vs run
χ² / ndf 653.6 / 87
p0 −1.25e+04 ± 278
pull
Entries 88
Mean 825.9
Std Dev 0

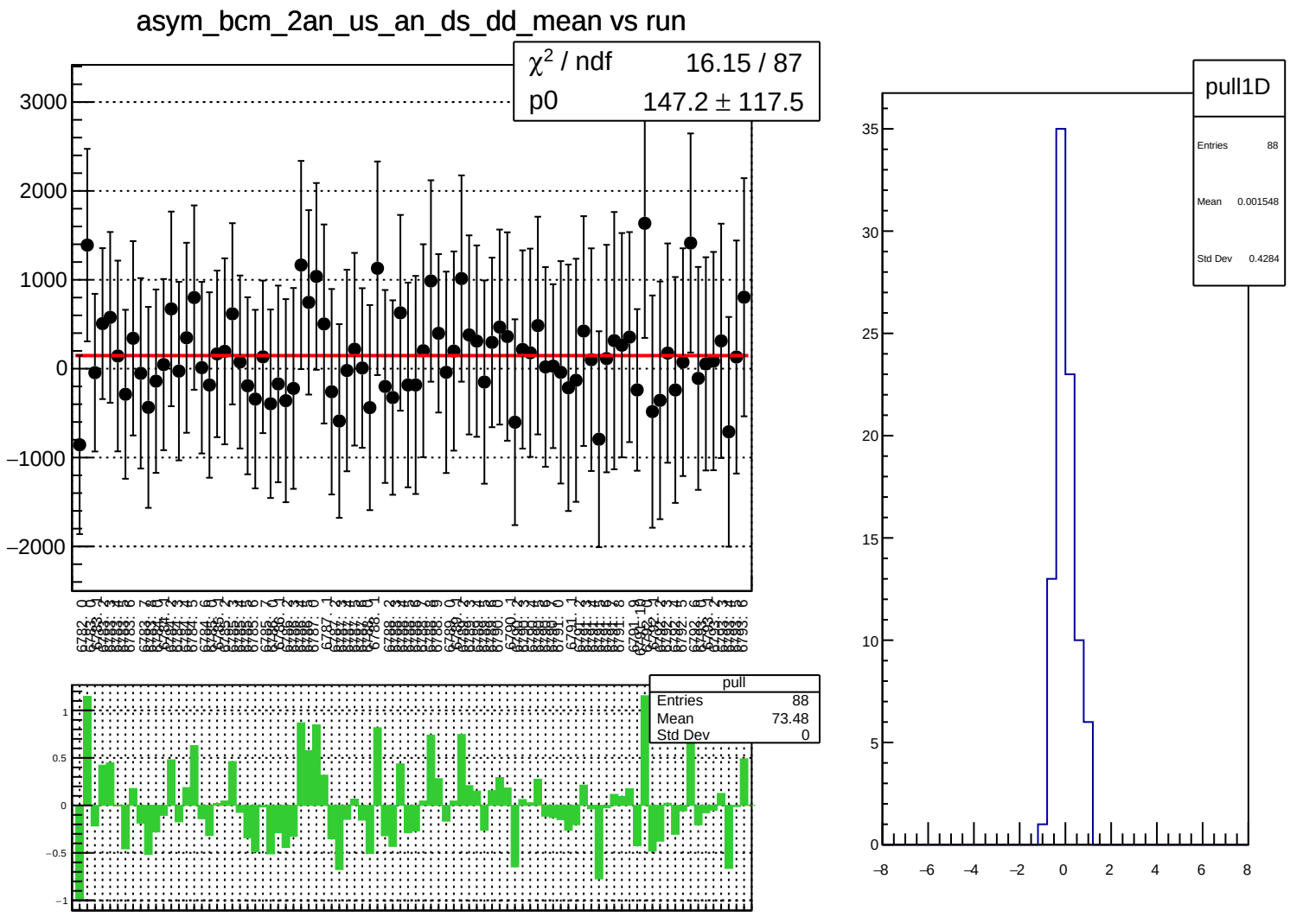

pull1D
Entries 88
Mean −0.05887
Std Dev 2.725

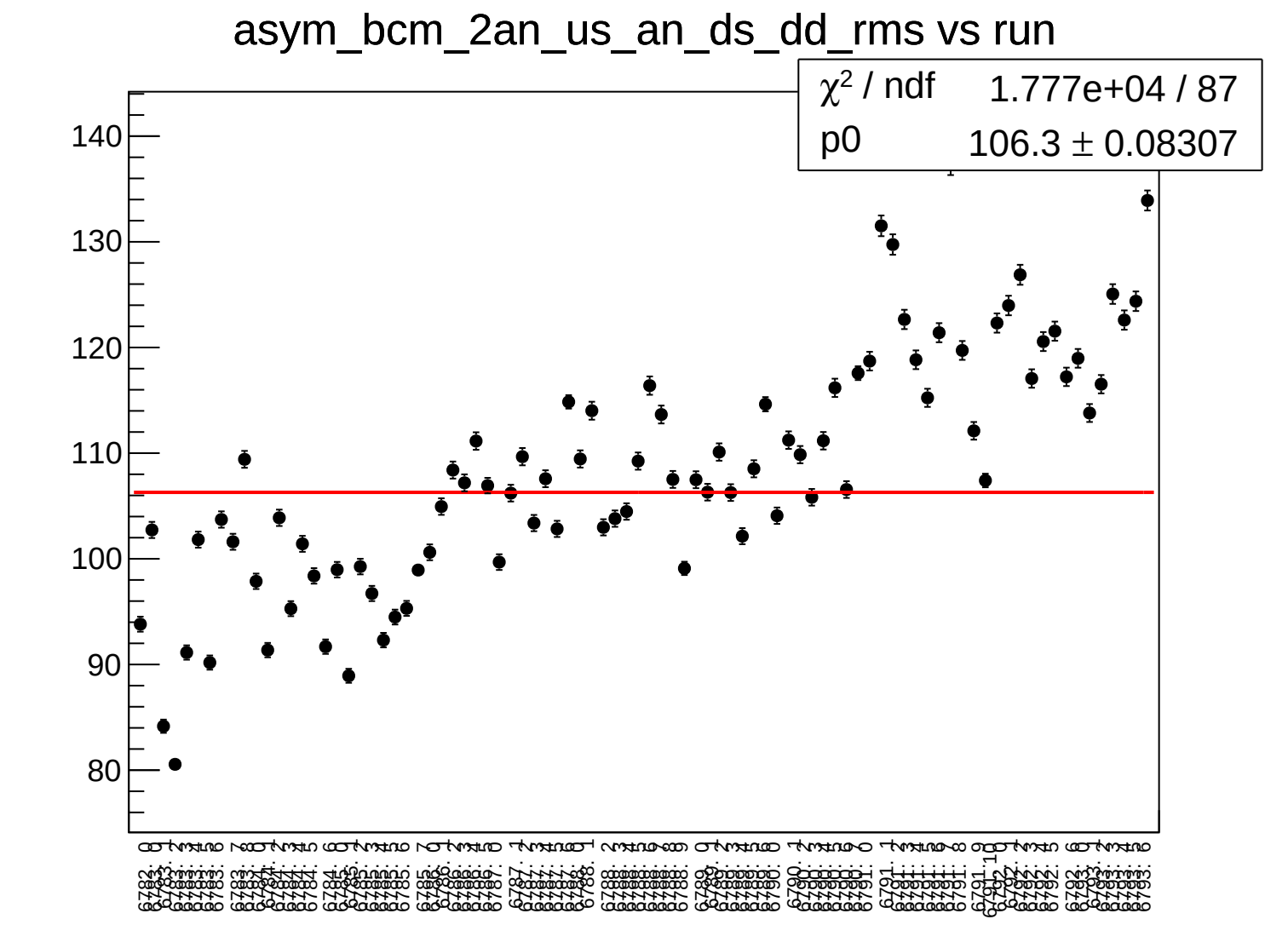

asym_bpm1i06WS_rms vs run
χ² / ndf 1.173e+04 / 87
p0 252 ± 0.1966
500
450
400
350
300
250
200

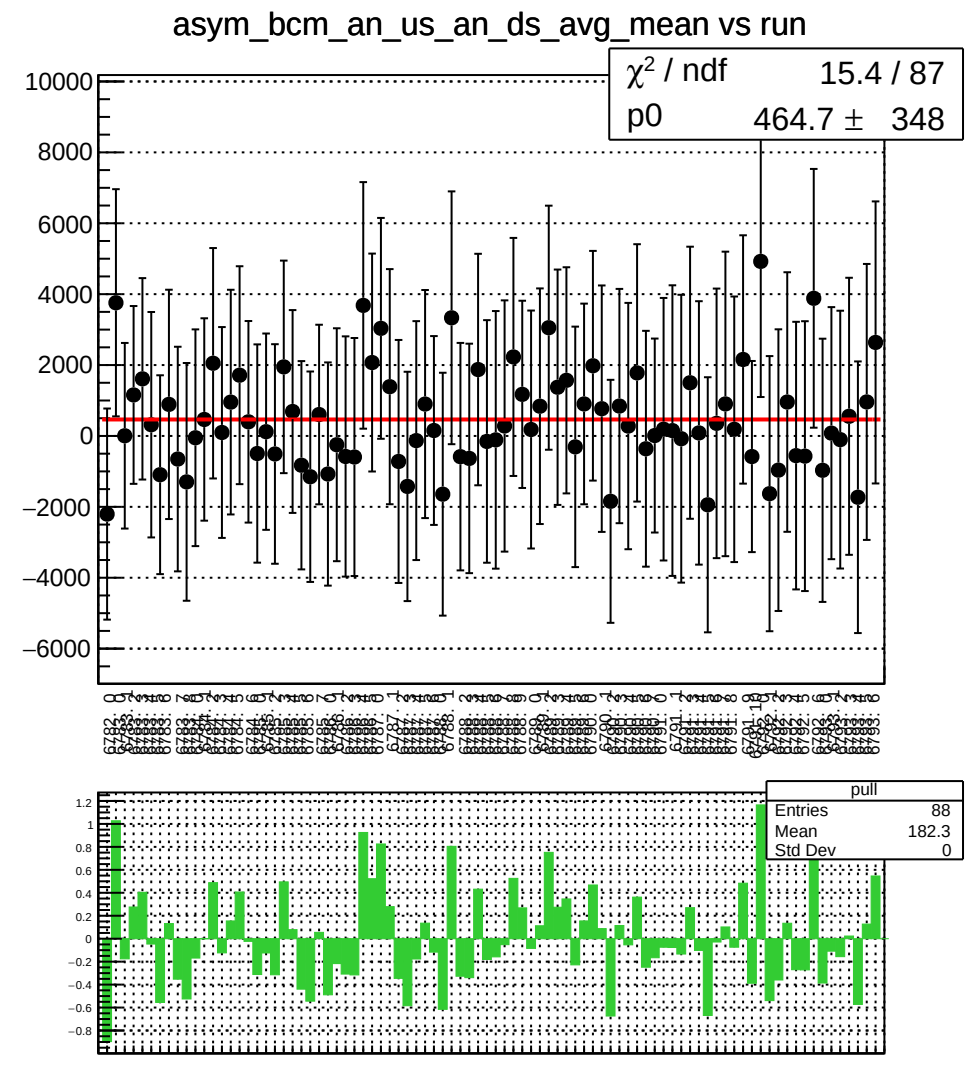

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 15.4 / 87
p0 462.1 ± 348.2
pull
Entries 88
Mean 173.8
Std Dev 0

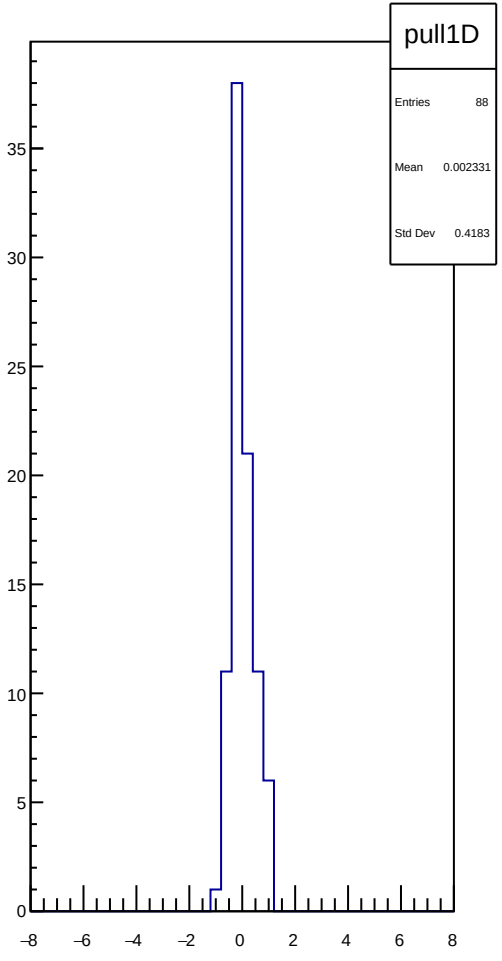

pull1D
Entries 88
Mean 0.002247
Std Dev 0.4183

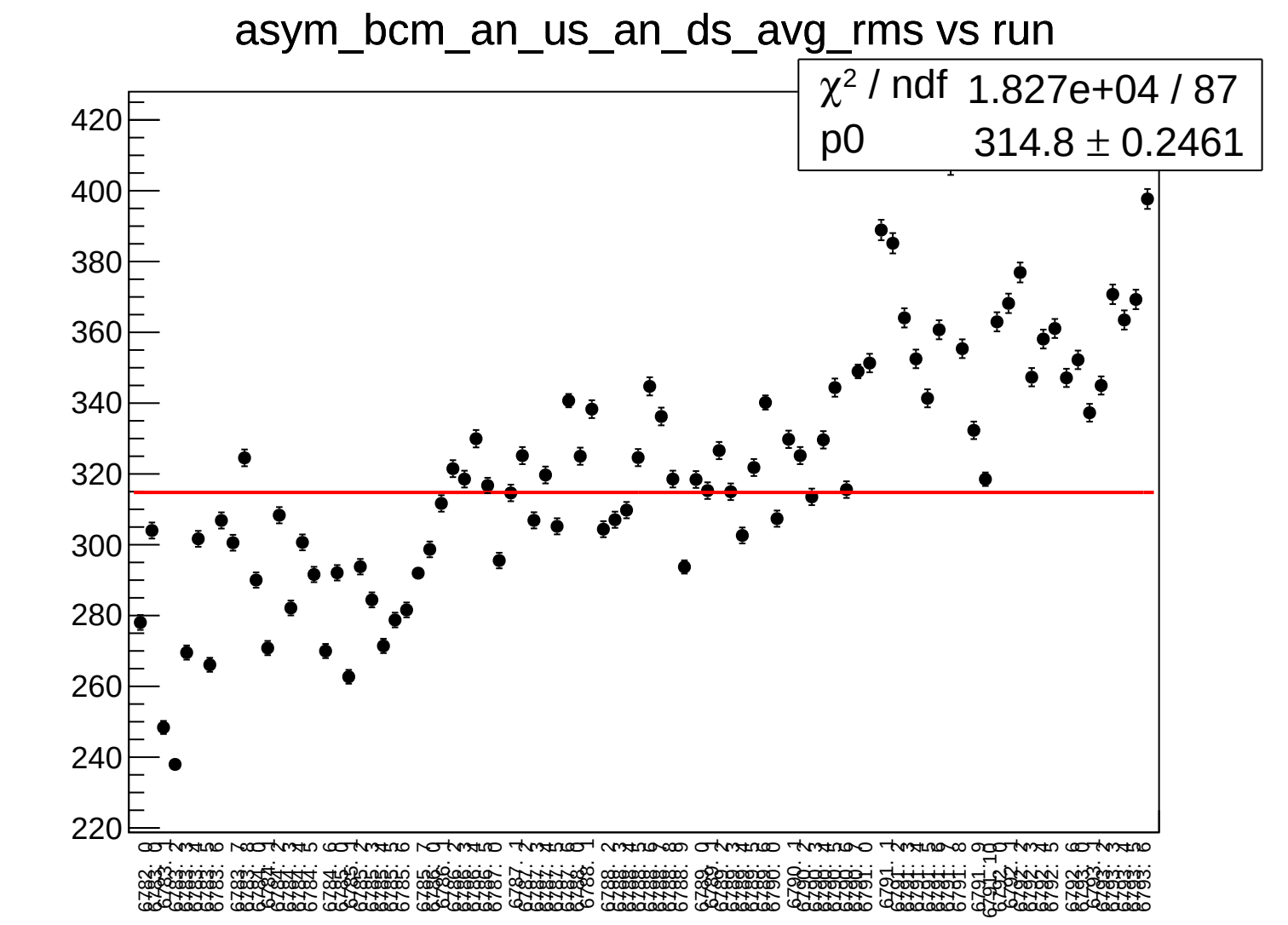

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.825e+04 / 87
p0 315 ± 0.2462
420
400
380
360
340
320
300
280
260
240
220

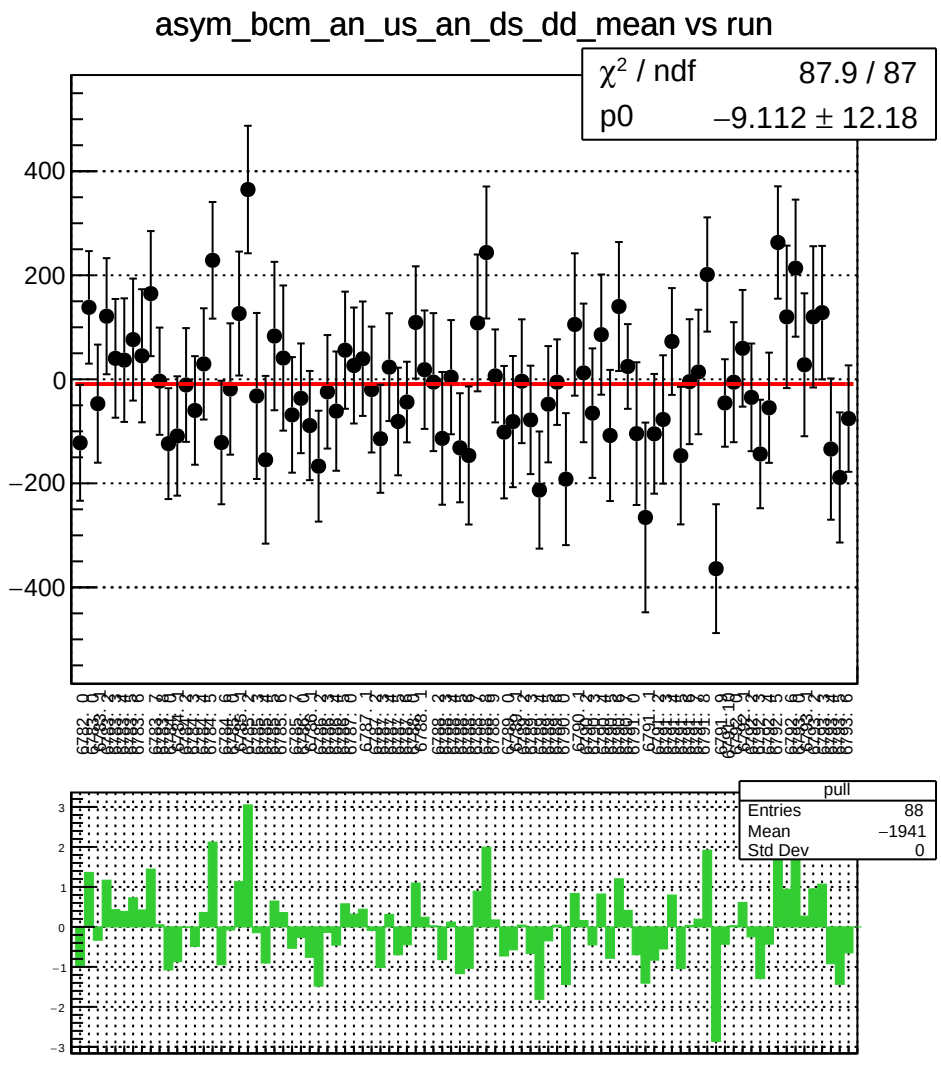

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 16.15 / 87
p0 147.2 ± 117.5
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 73.48
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.001548
Std Dev 0.4284
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

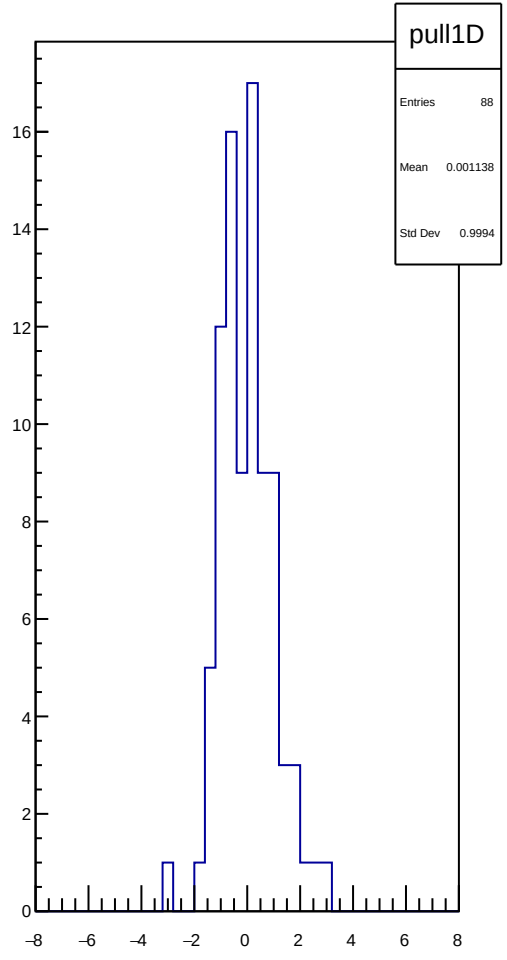

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.777e+04 / 87
p0 106.3 ± 0.08307
140
130
120
110
100
90
80

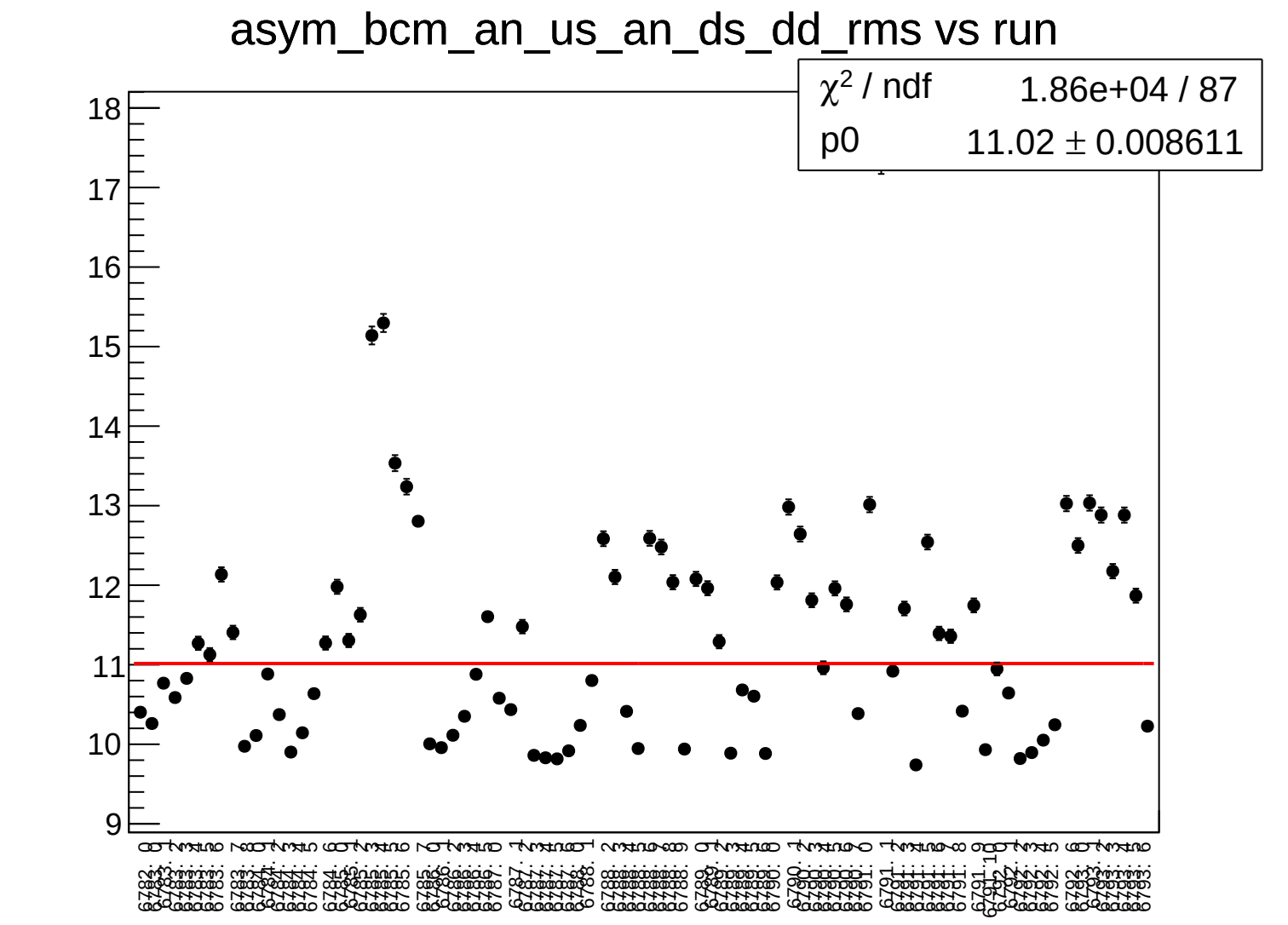

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 15.4 / 87
p0 464.7 ± 348
pull
Entries 88
Mean 182.3
Std Dev 0

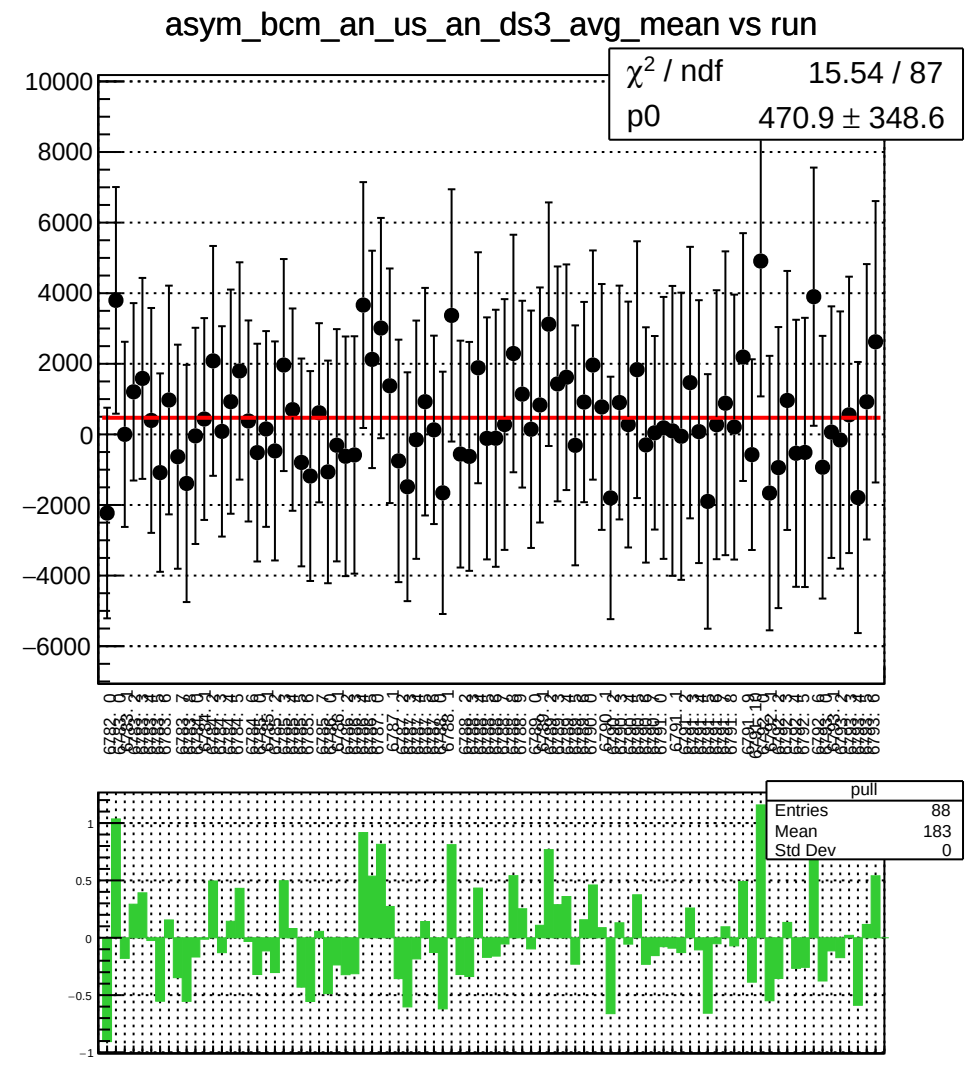

pull1D
Entries 88
Mean 0.002331
Std Dev 0.4183

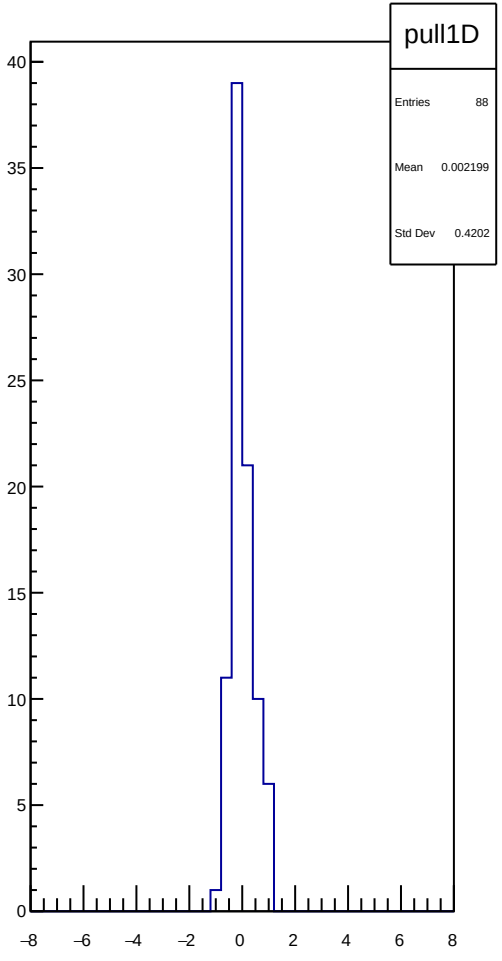

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.827e+04 / 87
p0 314.8 ± 0.2461
420
400
380
360
340
320
300
280
260
240
220

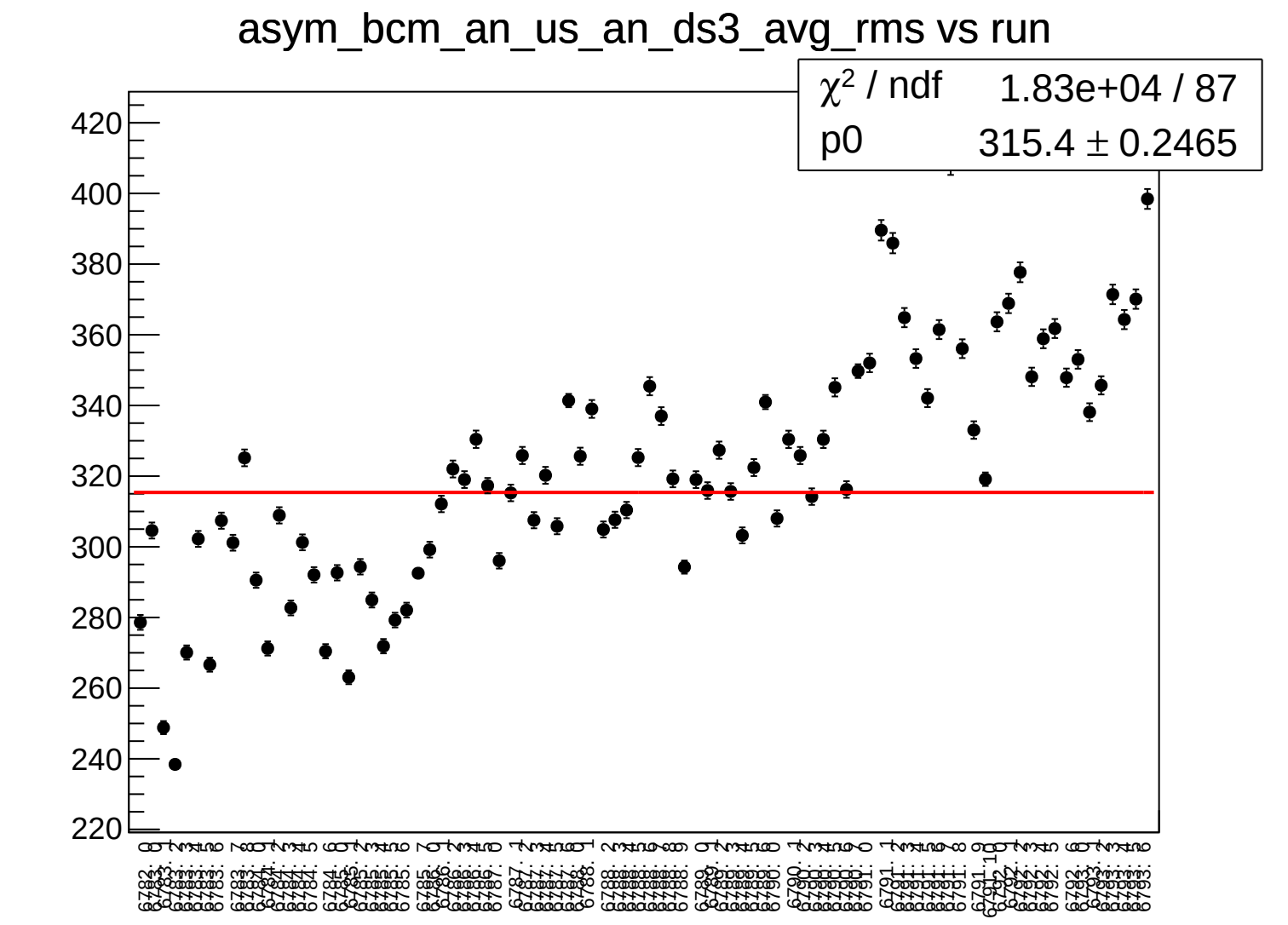

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 87.9 / 87
p0 −9.112 ± 12.18
400
200
0
−200
−400
pull
Entries 88
Mean −1941
Std Dev 0
3
2
1
0
−1
−2
−3

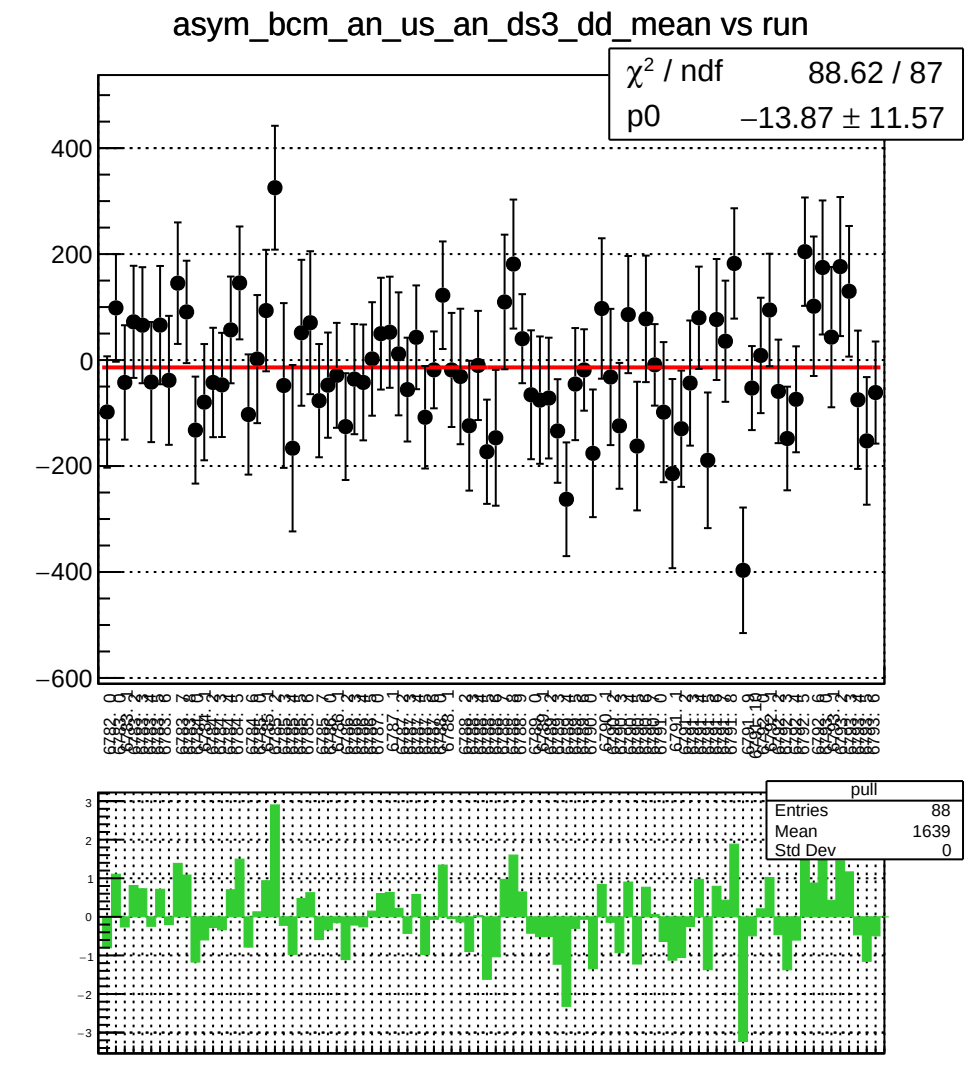

pull1D
Entries 88
Mean 0.001138
Std Dev 0.9994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

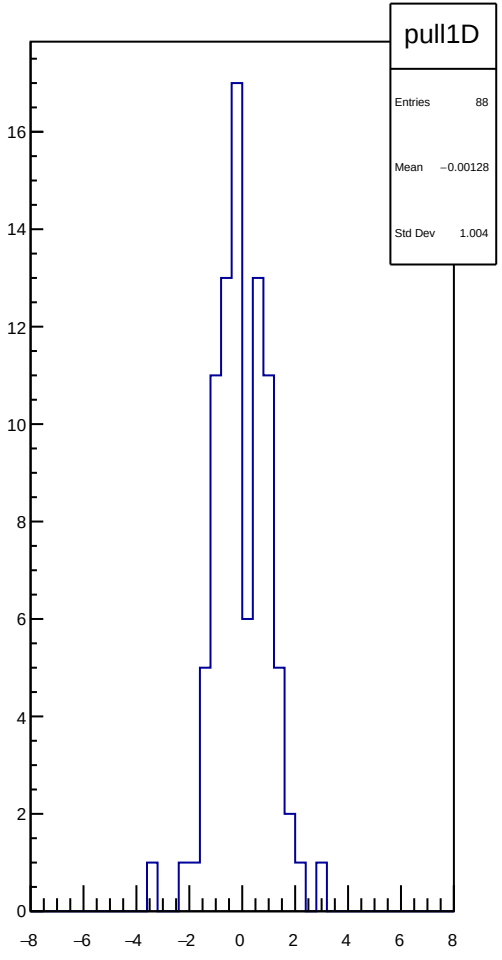

asym_bcm_an_us_an_ds_dd_rms vs run
χ2 / ndf 1.86e+04 / 87
p0 11.02 ± 0.008611
18
17
16
15
14
13
12
11
10
9

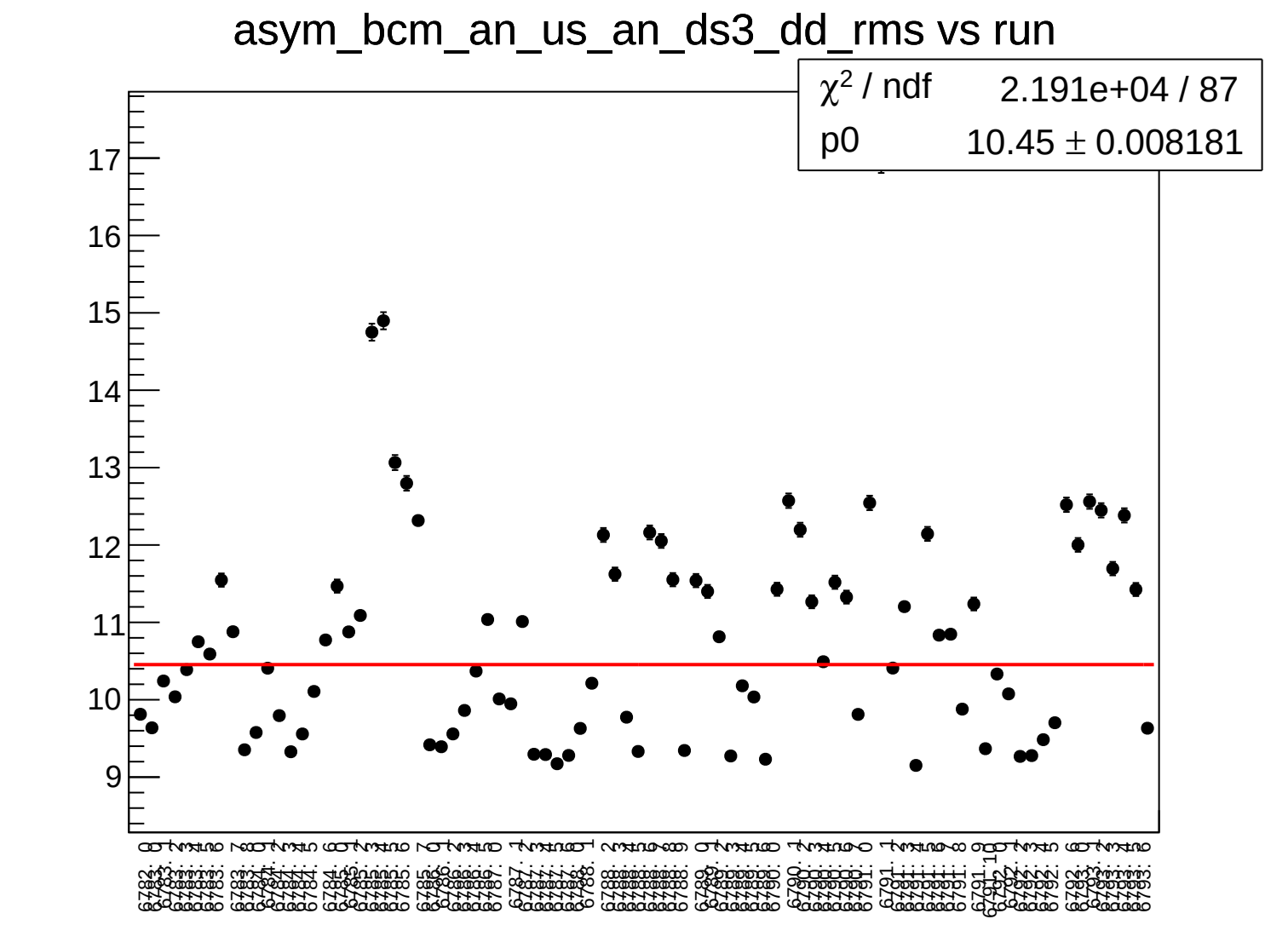

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 15.54 / 87
p0 470.9 ± 348.6
pull
Entries 88
Mean 183
Std Dev 0

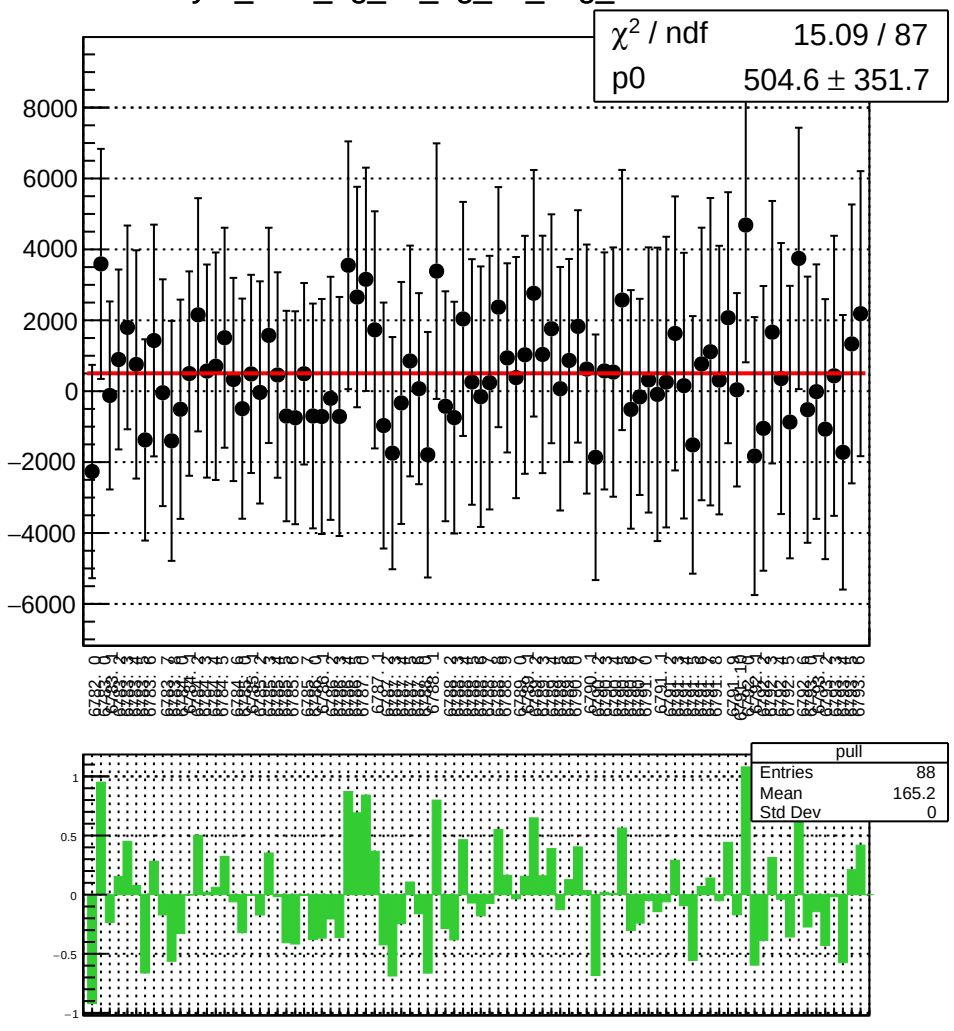

pull1D
Entries 88
Mean 0.002199
Std Dev 0.4202

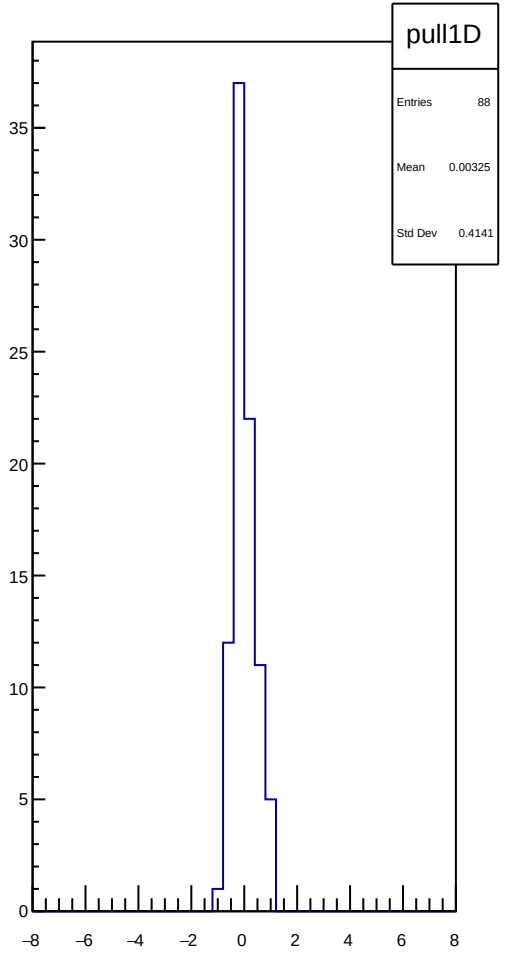

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.83e+04 / 87
p0 315.4 ± 0.2465
420
400
380
360
340
320
300
280
260
240
220

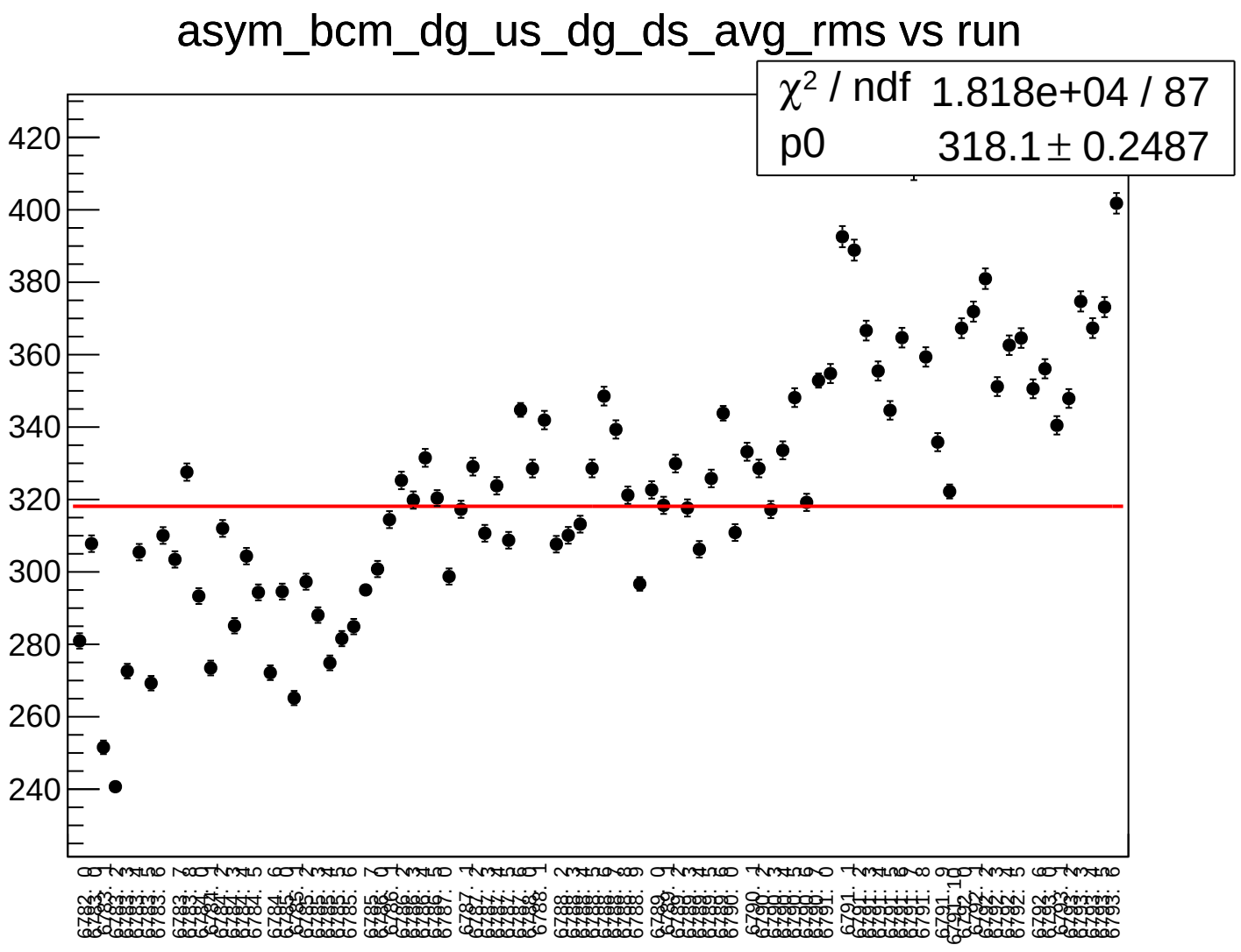

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 88.62 / 87
p0 −13.87 ± 11.57
400
200
0
−200
−400
−600
pull
Entries 88
Mean 1639
Std Dev 0
3
2
1
0
−1
−2
−3

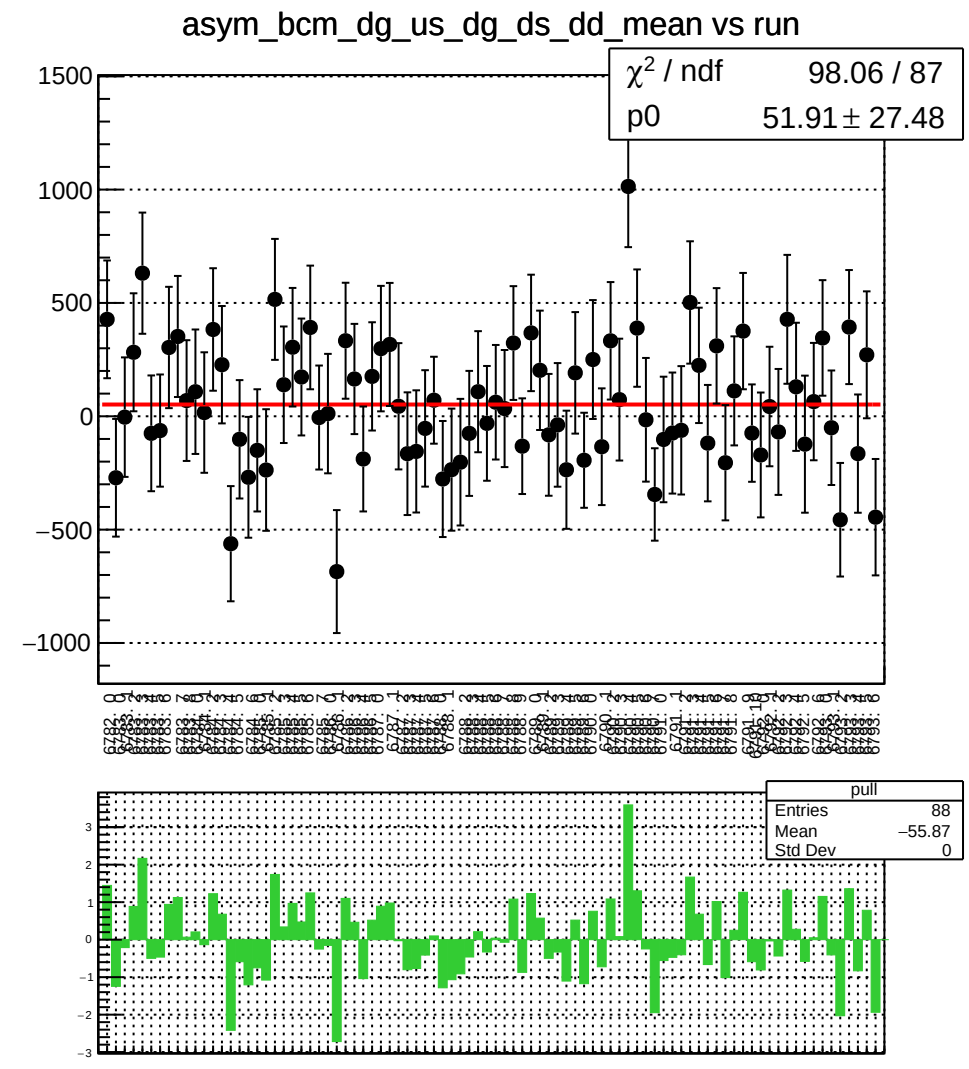

pull1D
Entries 88
Mean −0.00128
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

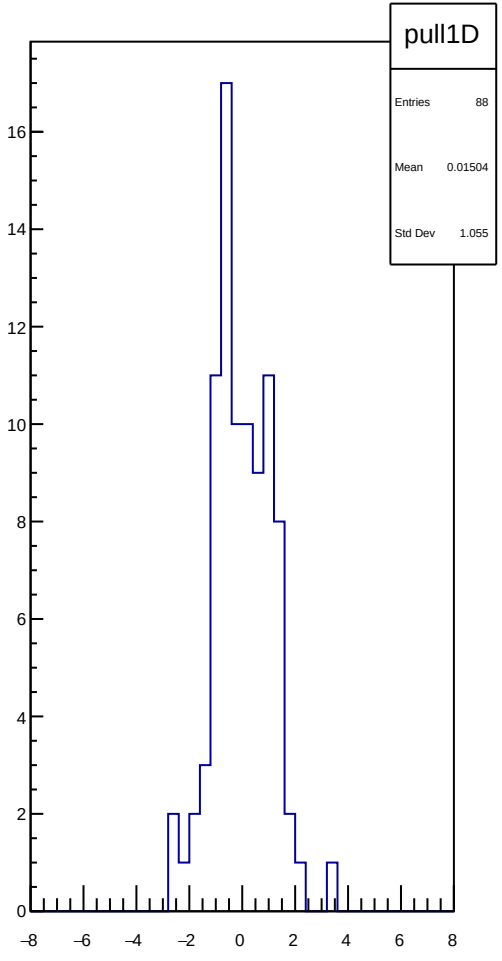

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 2.191e+04 / 87
p0 10.45 ± 0.008181
17
16
15
14
13
12
11
10
9

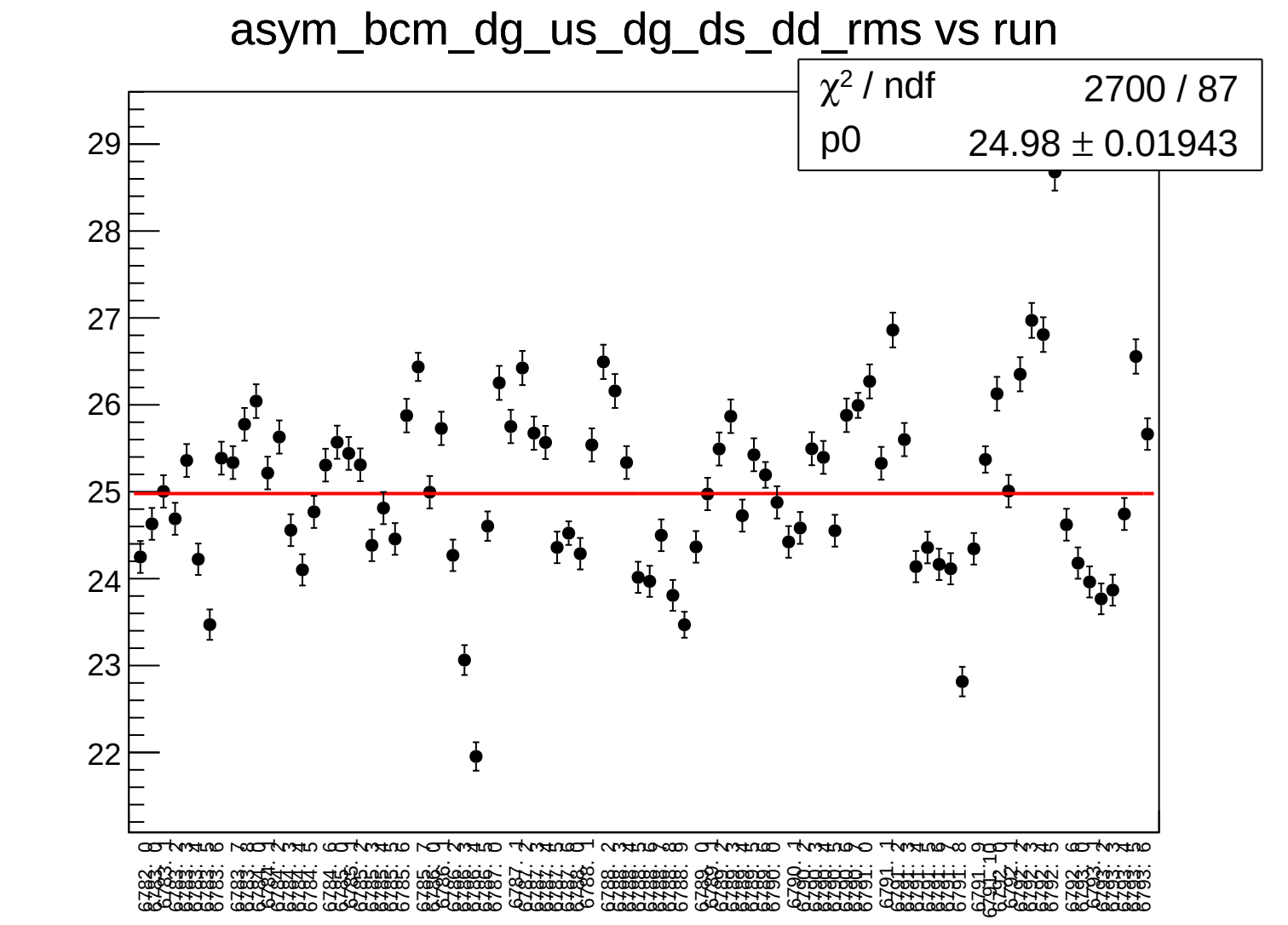

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 15.09 / 87
p0 504.6 ± 351.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 165.2
Std Dev 0
1
0.5
0
−0.5
−1

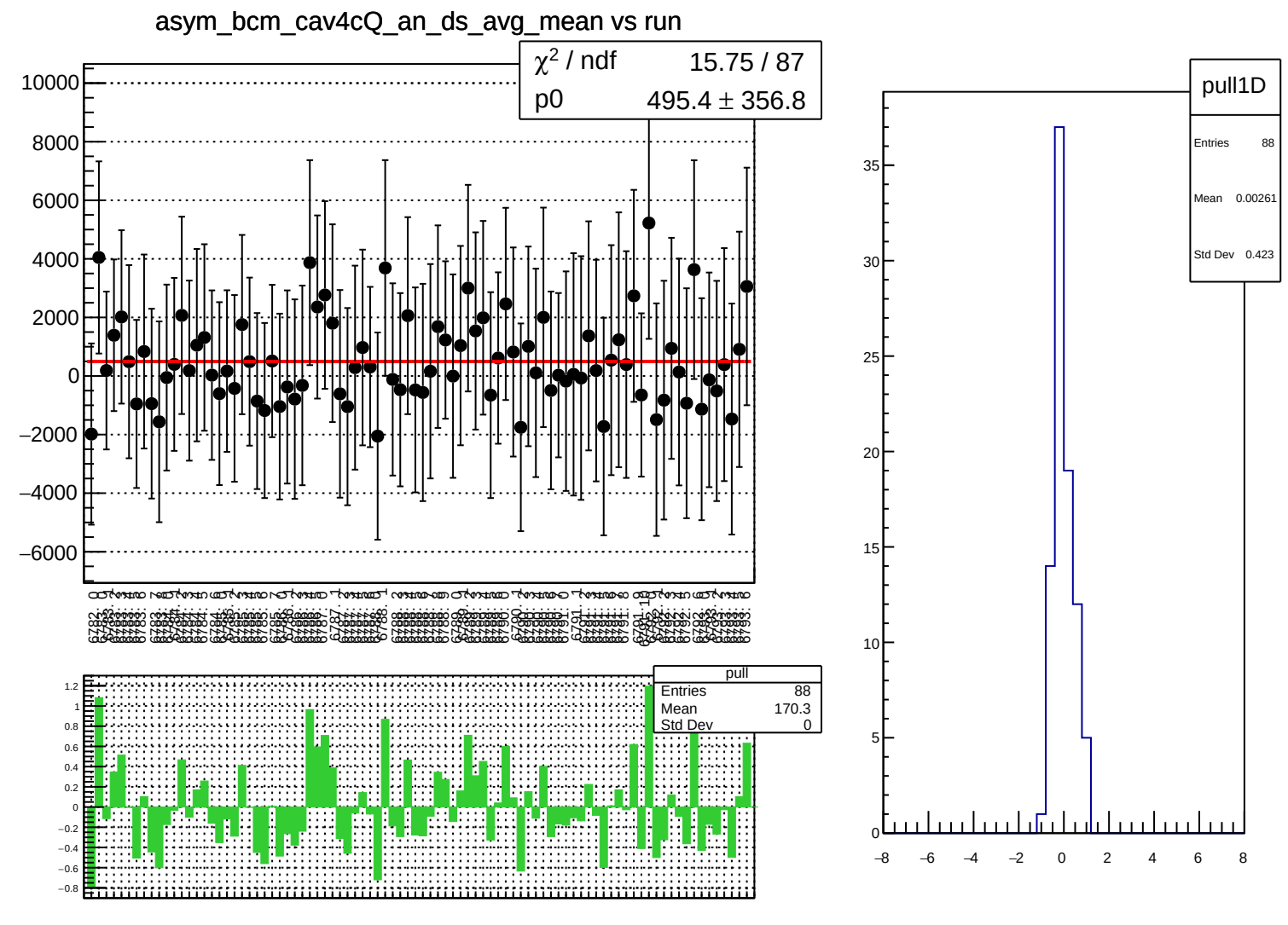

pull1D
Entries 88
Mean 0.00325
Std Dev 0.4141
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

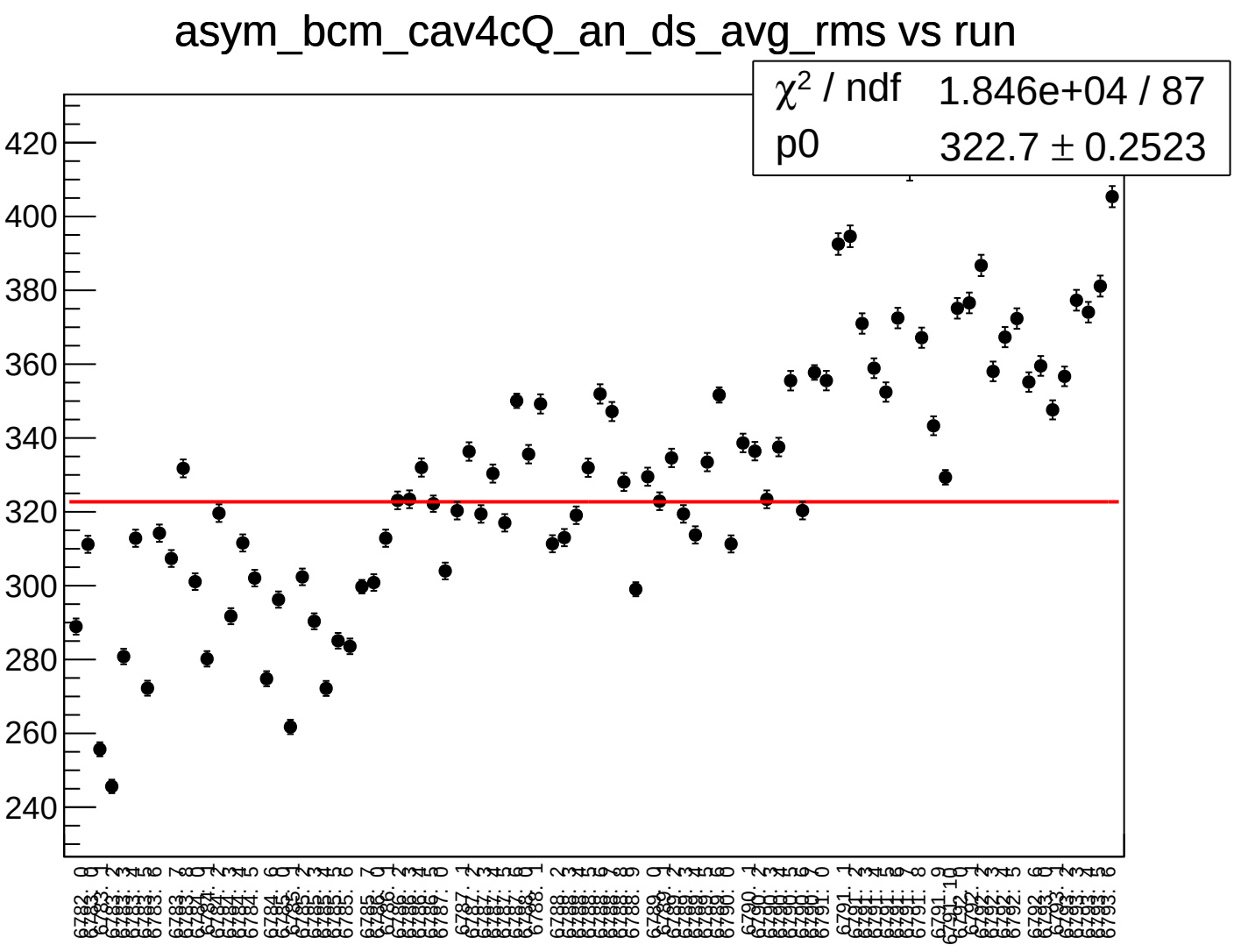

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.818e+04 / 87
p0 318.1 ± 0.2487
420
400
380
360
340
320
300
280
260
240

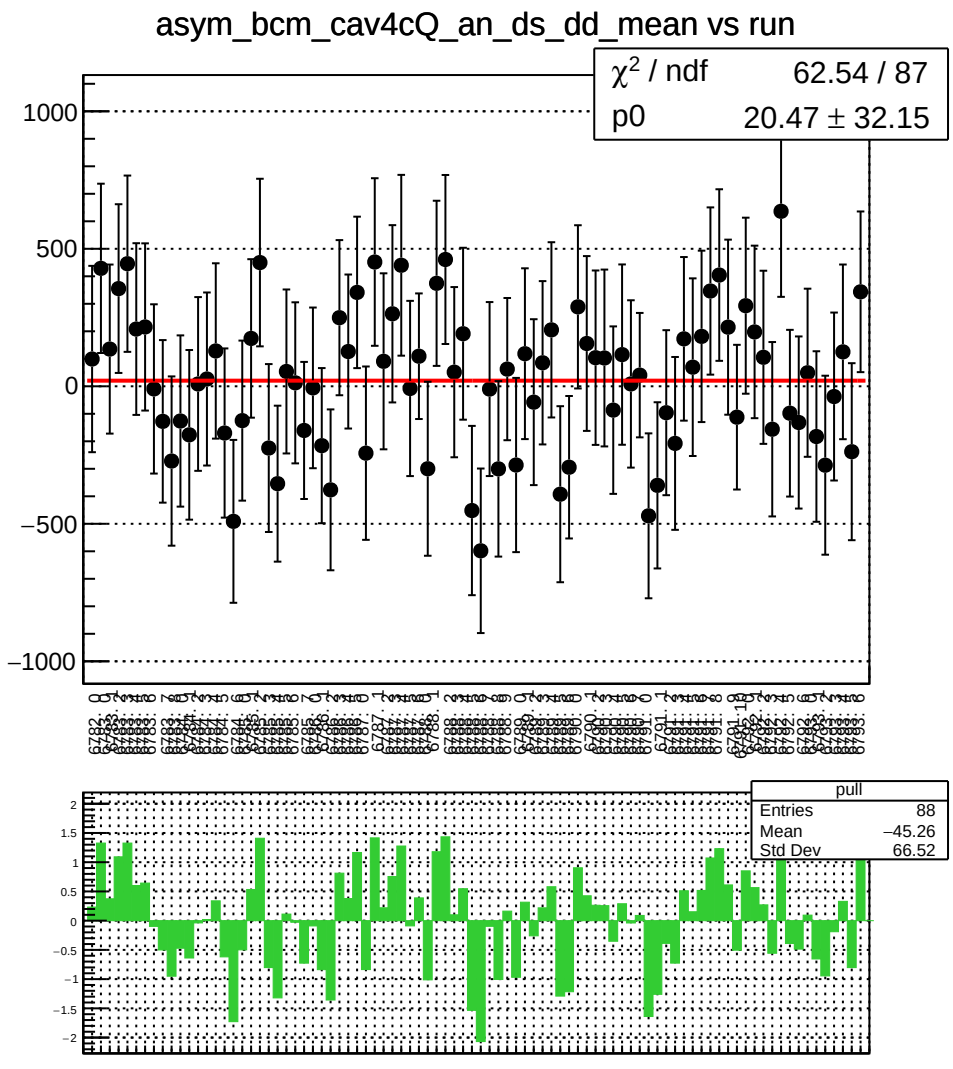

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 98.06 / 87
p0 51.91 ± 27.48
pull
Entries 88
Mean −55.87
Std Dev 0

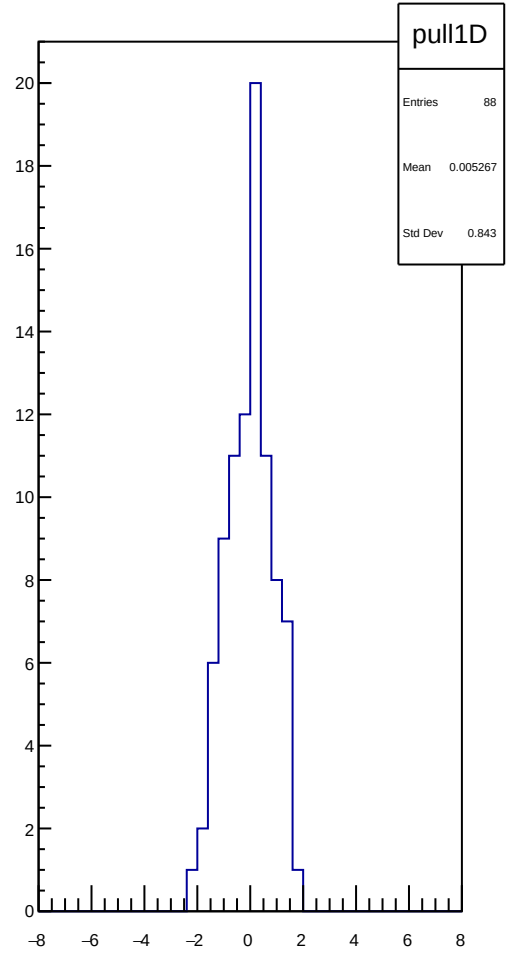

pull1D
Entries 88
Mean 0.01504
Std Dev 1.055

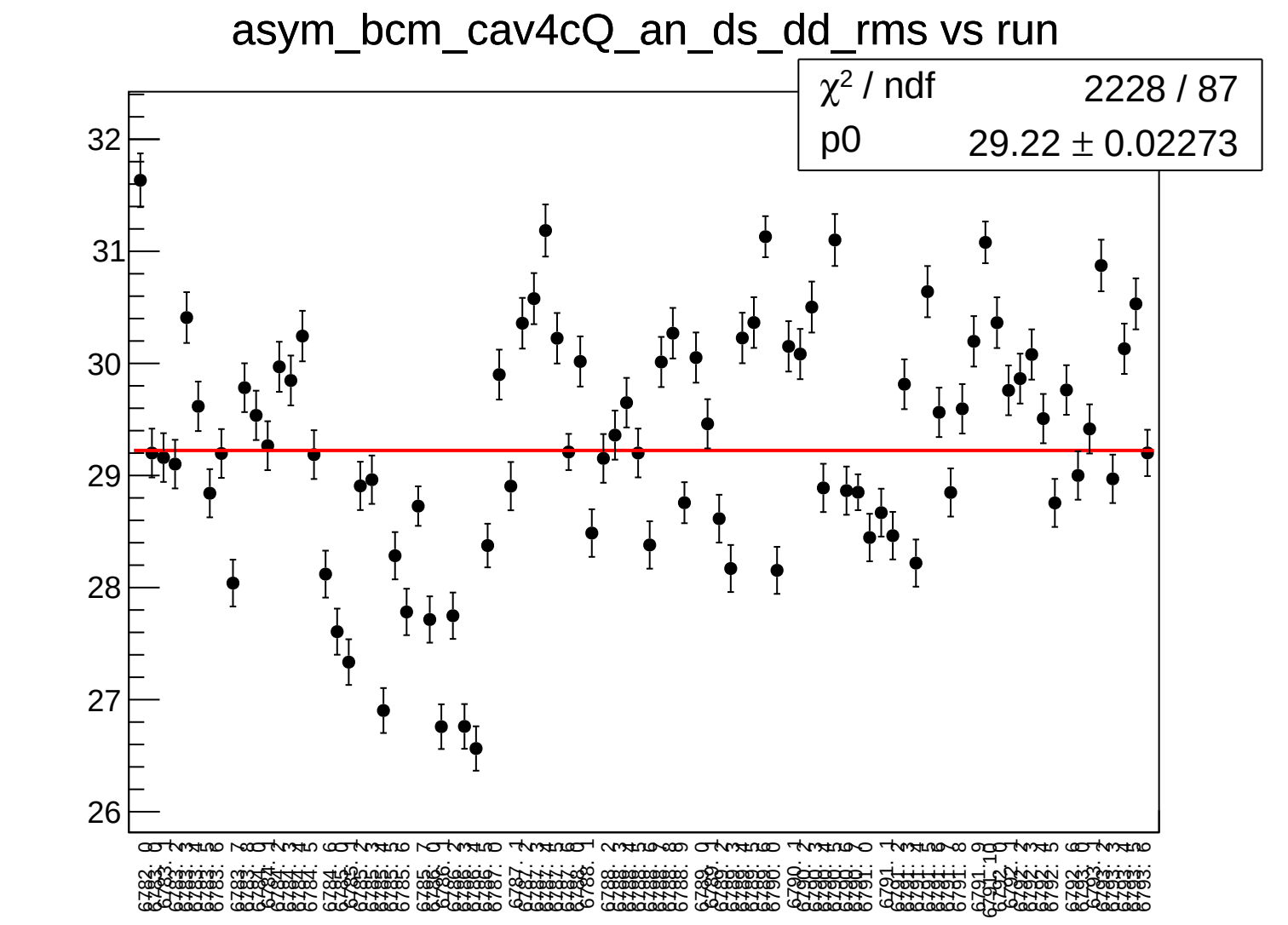

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2700 / 87
p0 24.98 ± 0.01943
29
28
27
26
25
24
23
22

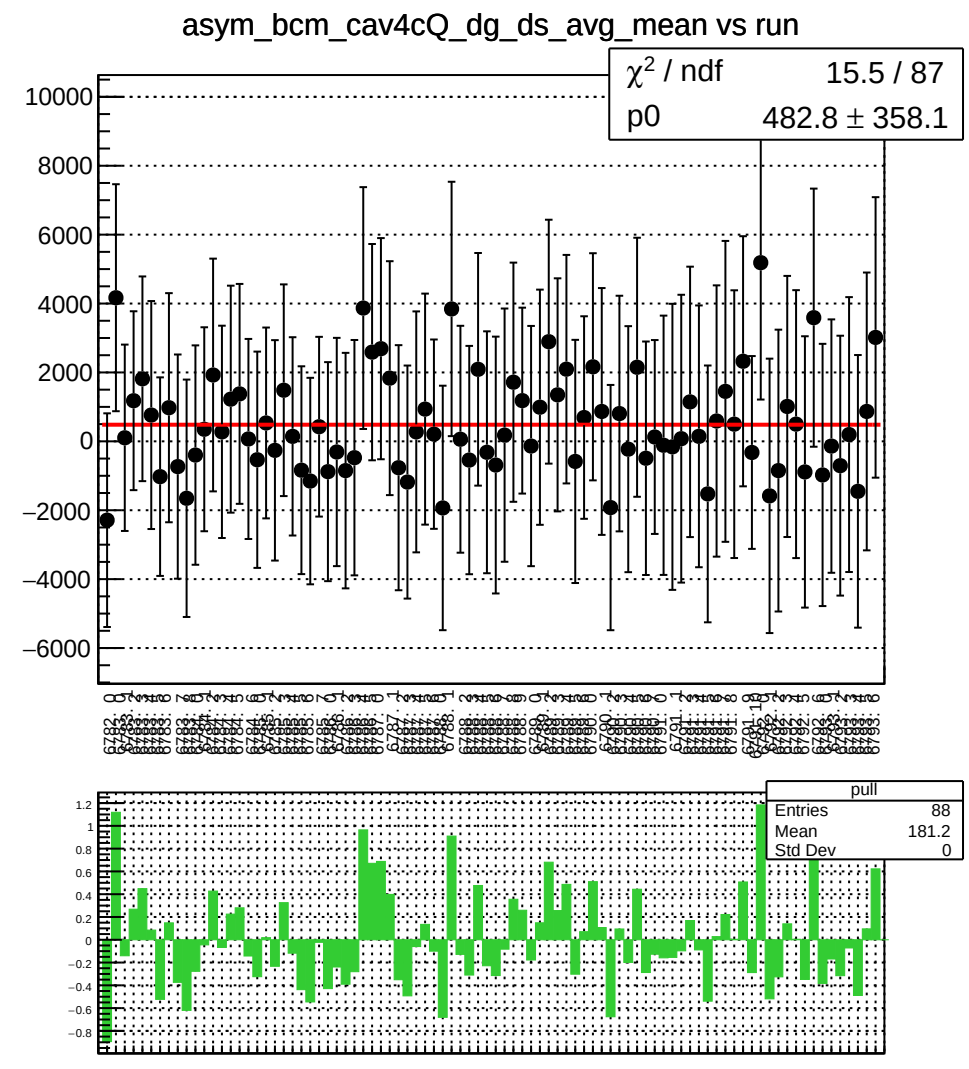

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 15.75 / 87
p0 495.4 ± 356.8
pull
Entries 88
Mean 170.3
Std Dev 0
pull1D
Entries 88
Mean 0.00261
Std Dev 0.423

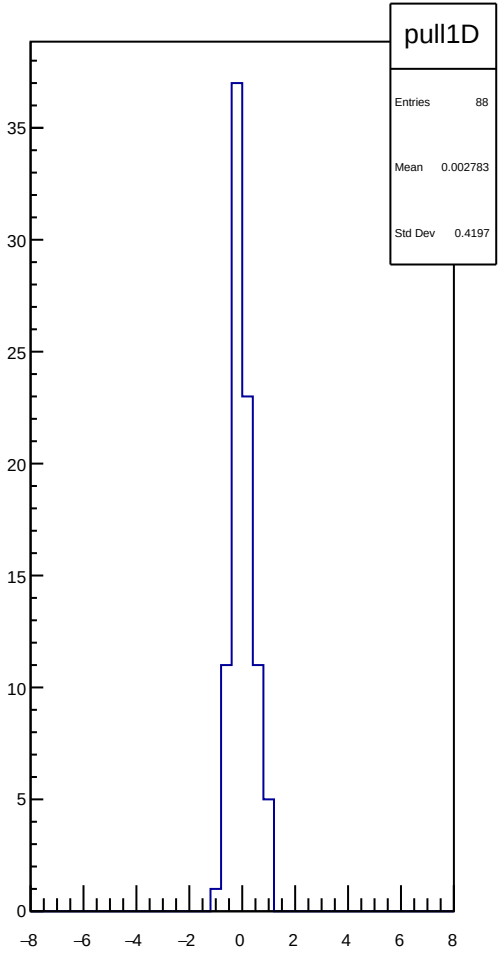

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.846e+04 / 87
p0 322.7 ± 0.2523
420
400
380
360
340
320
300
280
260
240

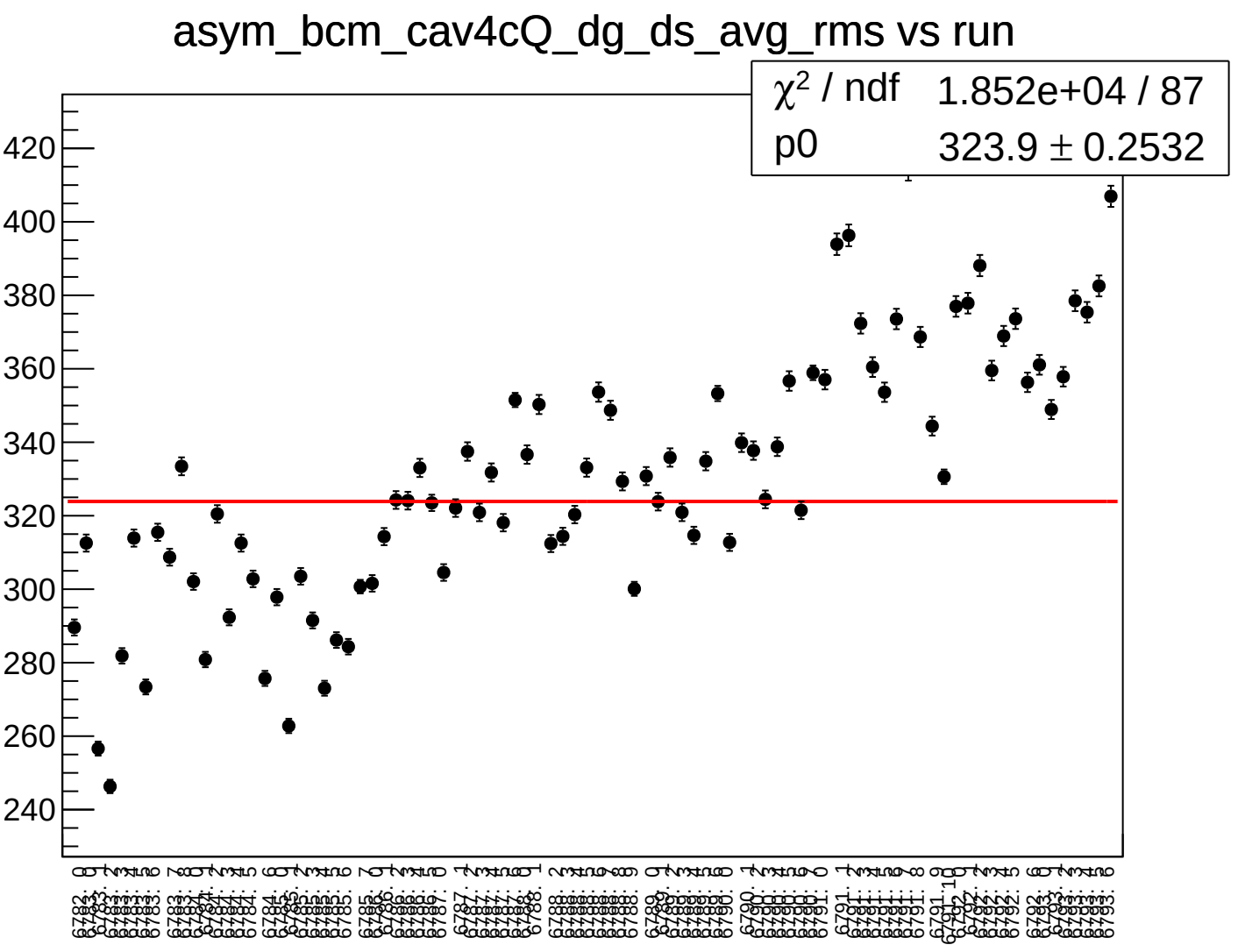

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ^2 / ndf 62.54 / 87
p0 20.47 ± 32.15
1000
500
0
−500
−1000
pull
Entries 88
Mean −45.26
Std Dev 66.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

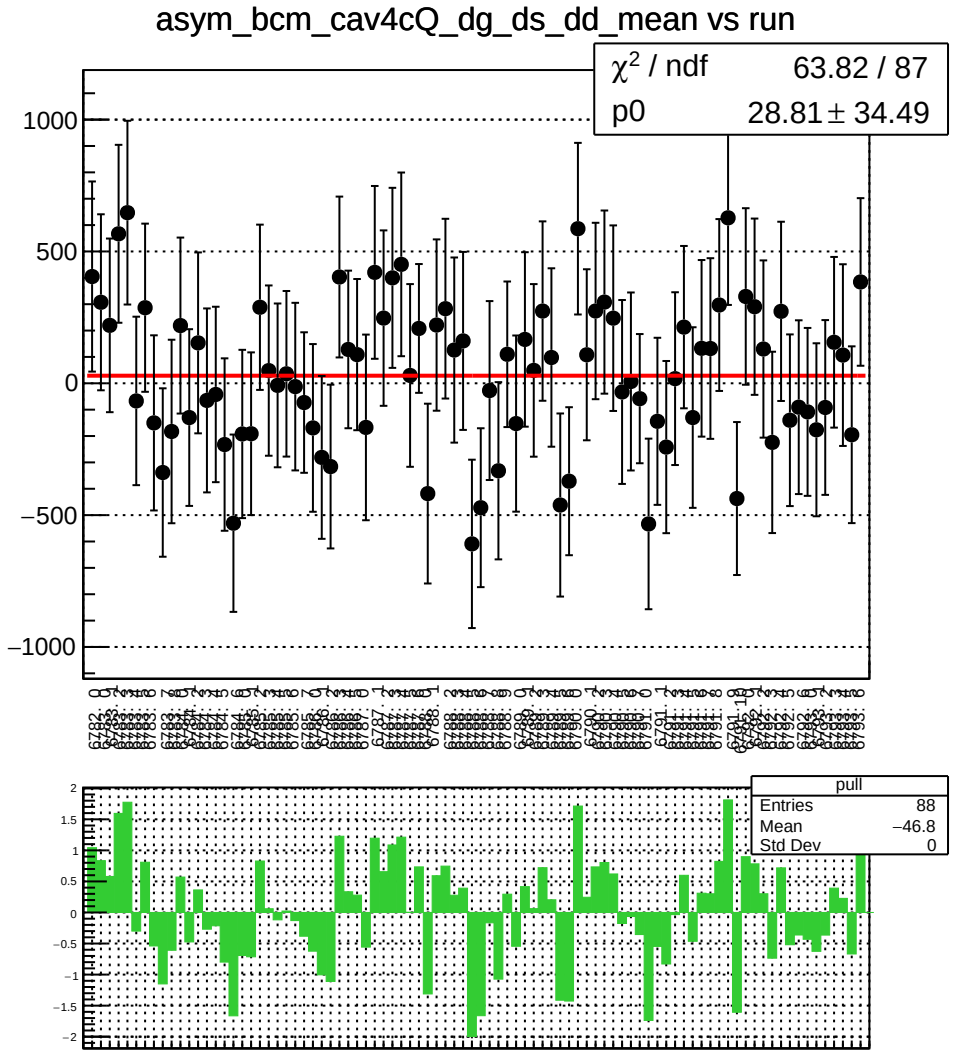

pull1D
Entries 88
Mean 0.005267
Std Dev 0.843
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

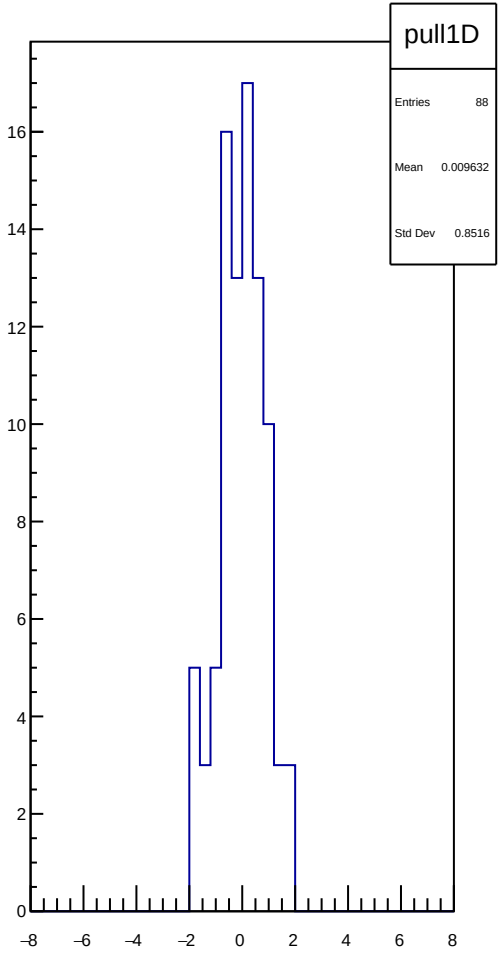

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2228 / 87
p0 29.22 ± 0.02273
32
31
30
29
28
27
26

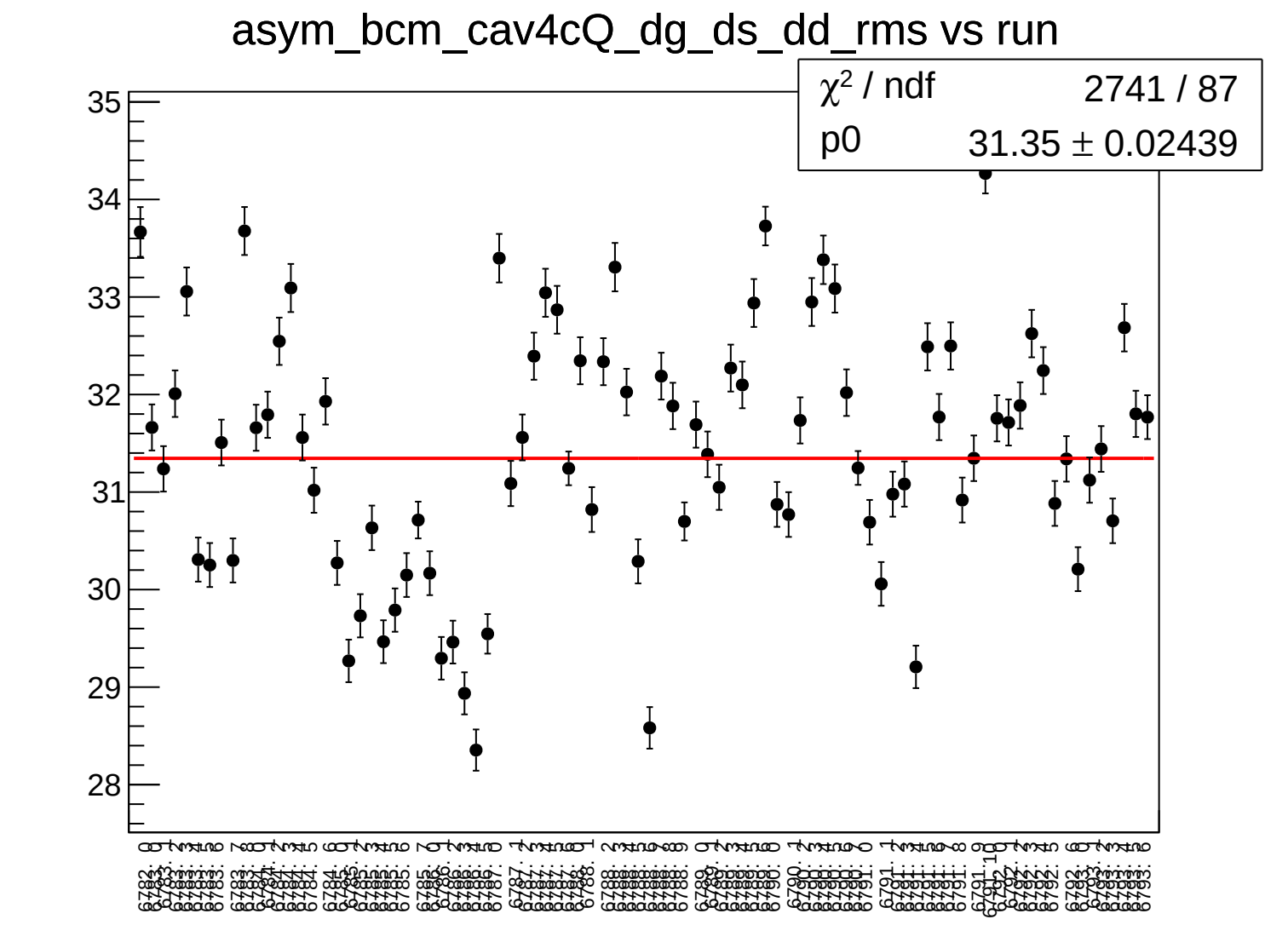

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 15.5 / 87
p0 482.8 ± 358.1
pull
Entries 88
Mean 181.2
Std Dev 0

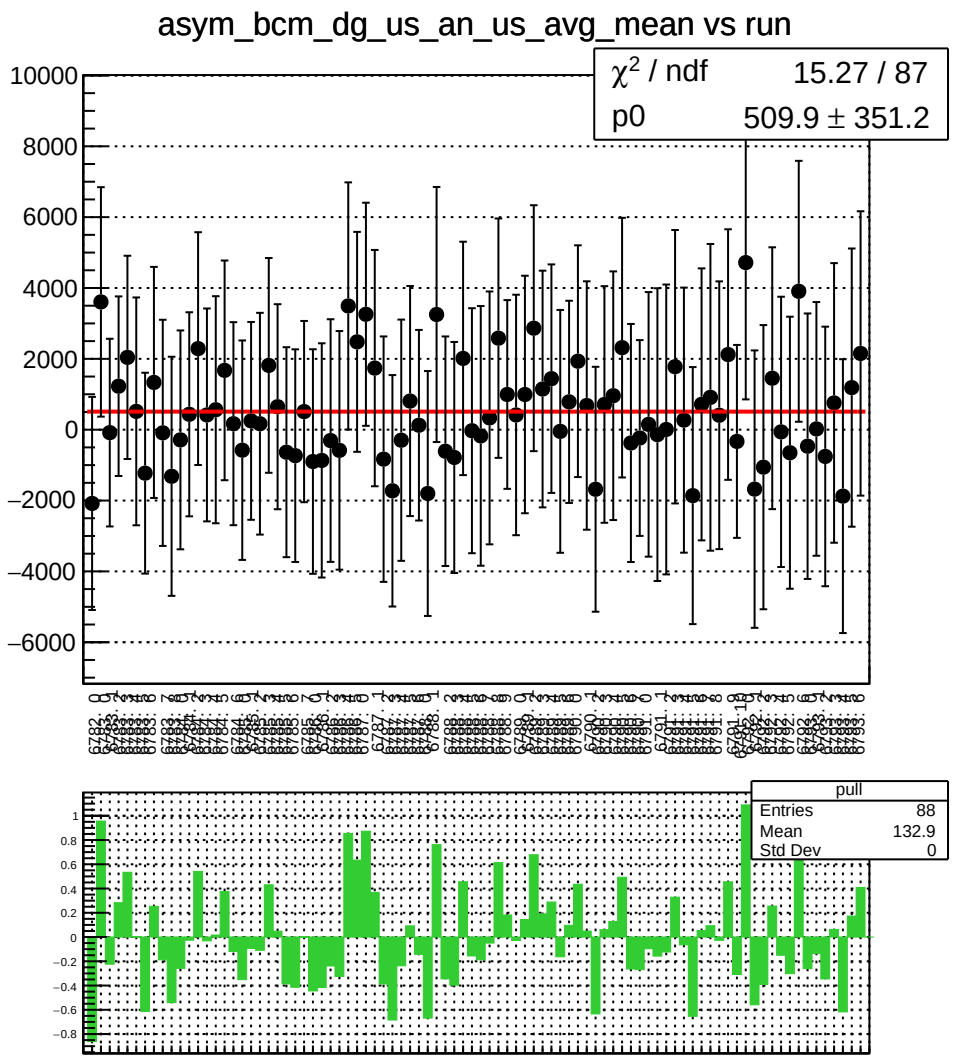

pull1D
Entries 88
Mean 0.002783
Std Dev 0.4197

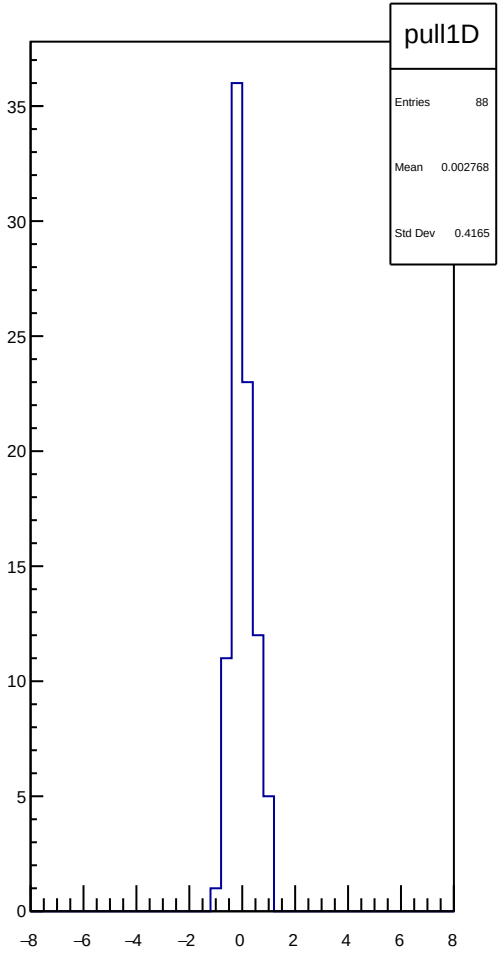

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.852e+04 / 87
p0 323.9 ± 0.2532
420
400
380
360
340
320
300
280
260
240

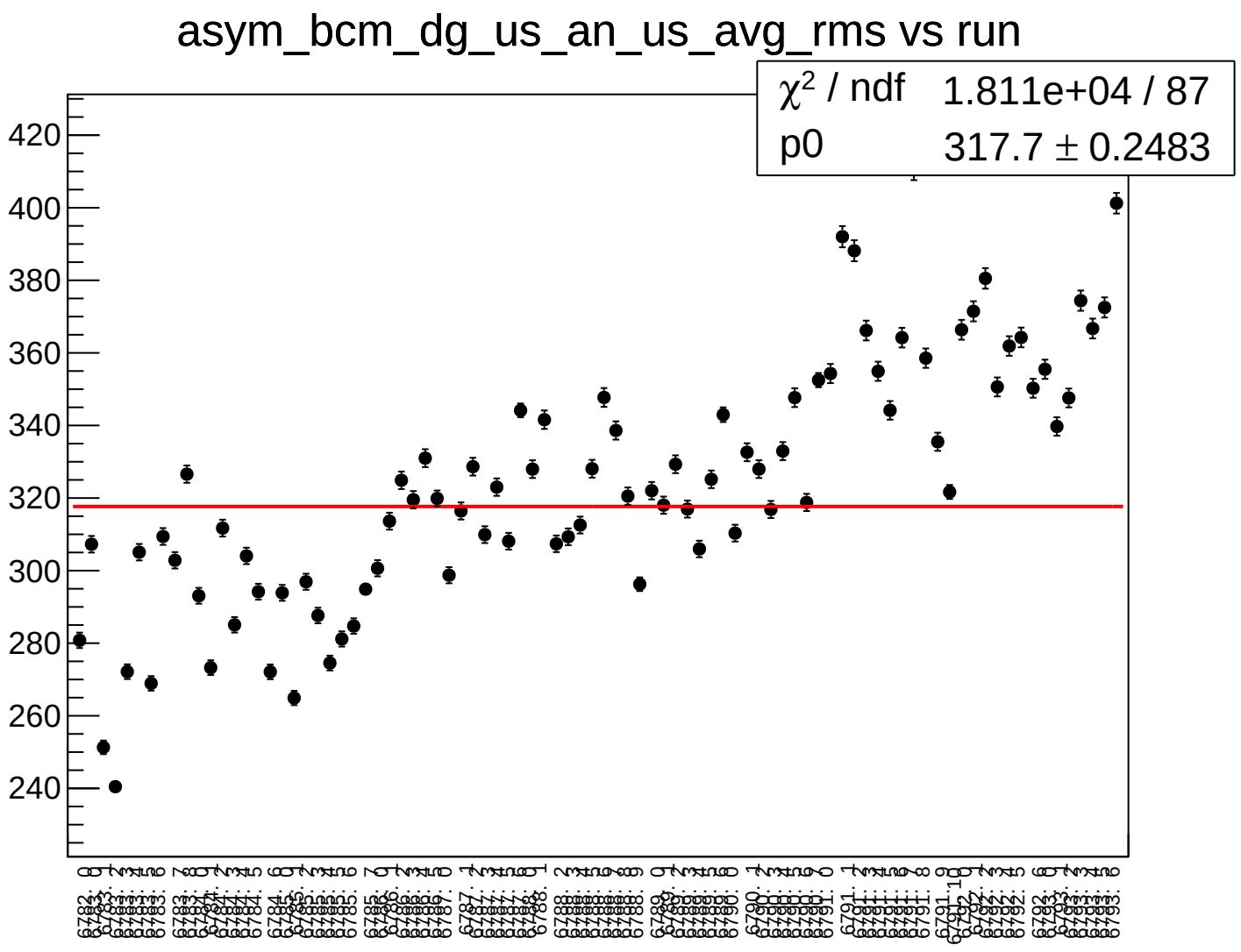

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 63.82 / 87
p0 28.81 ± 34.49
1000
500
0
−500
−1000
pull
Entries 88
Mean −46.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

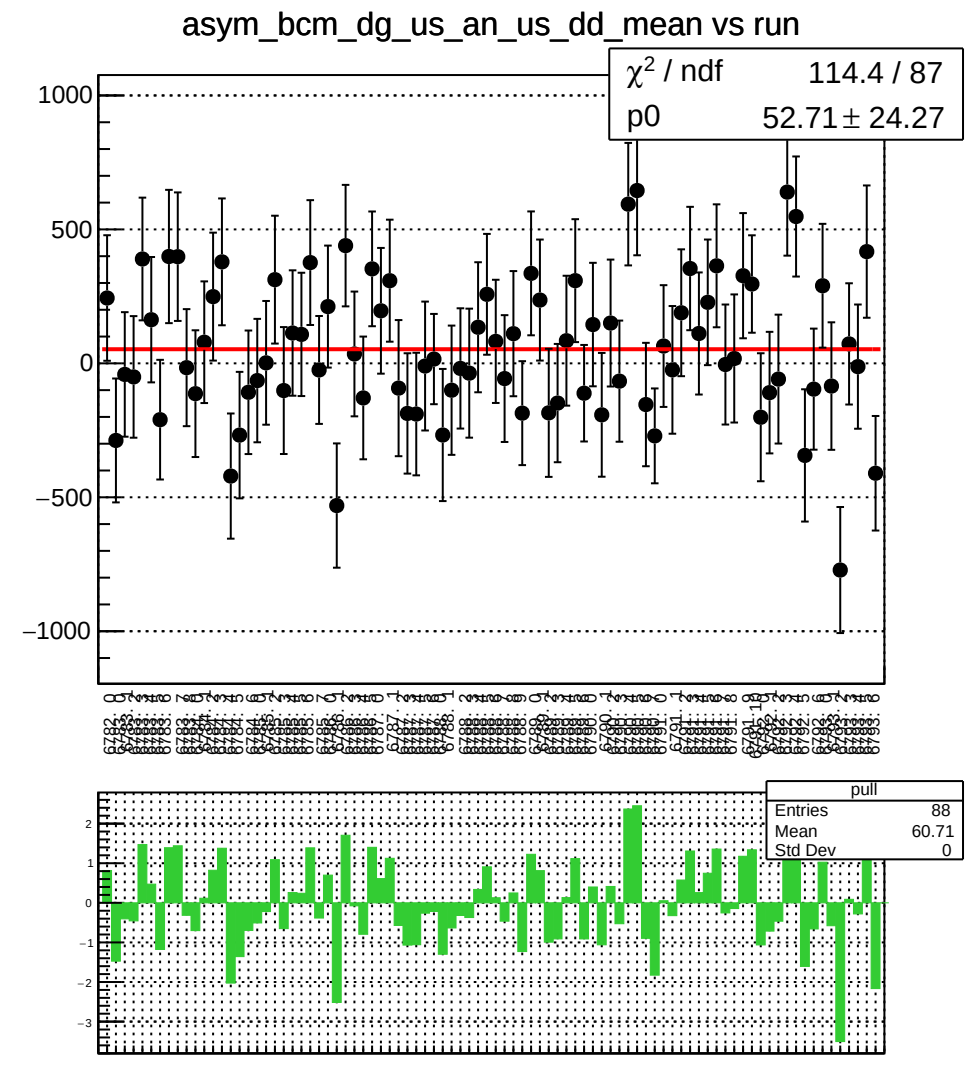

pull1D
Entries 88
Mean 0.009632
Std Dev 0.8516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

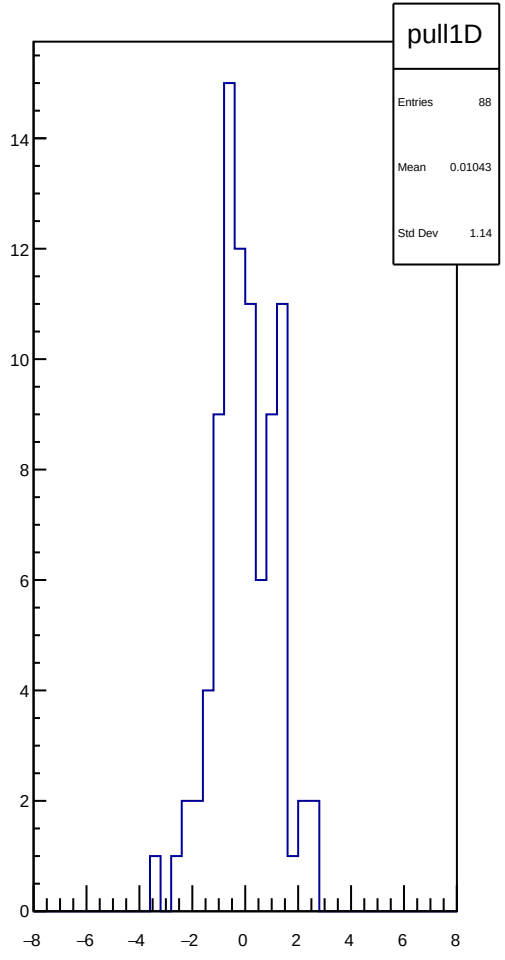

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2741 / 87
p0 31.35 ± 0.02439
35
34
33
32
31
30
29
28


asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 15.27 / 87
p0 509.9 ± 351.2
pull
Entries 88
Mean 132.9
Std Dev 0

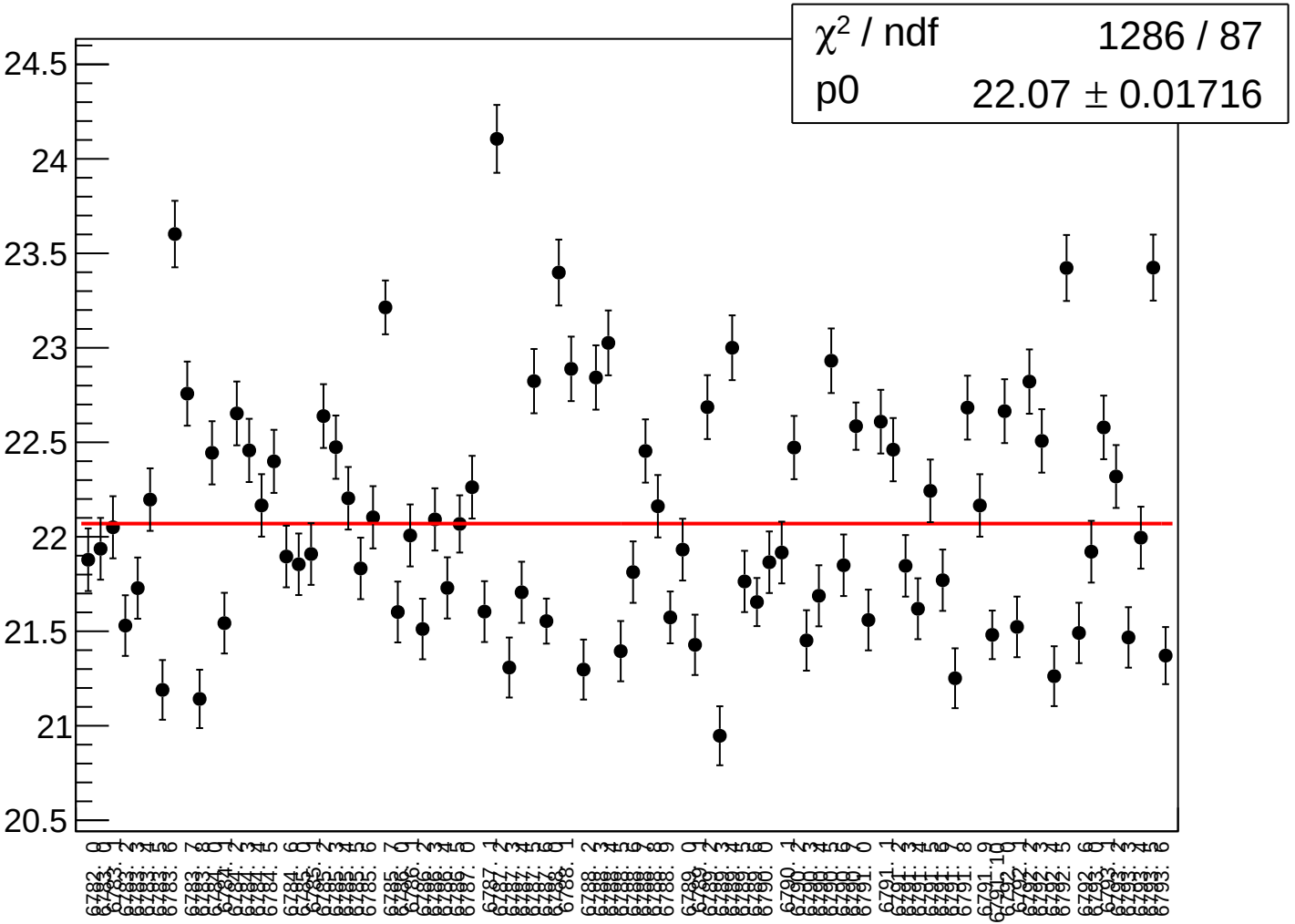

pull1D
Entries 88
Mean 0.002768
Std Dev 0.4165

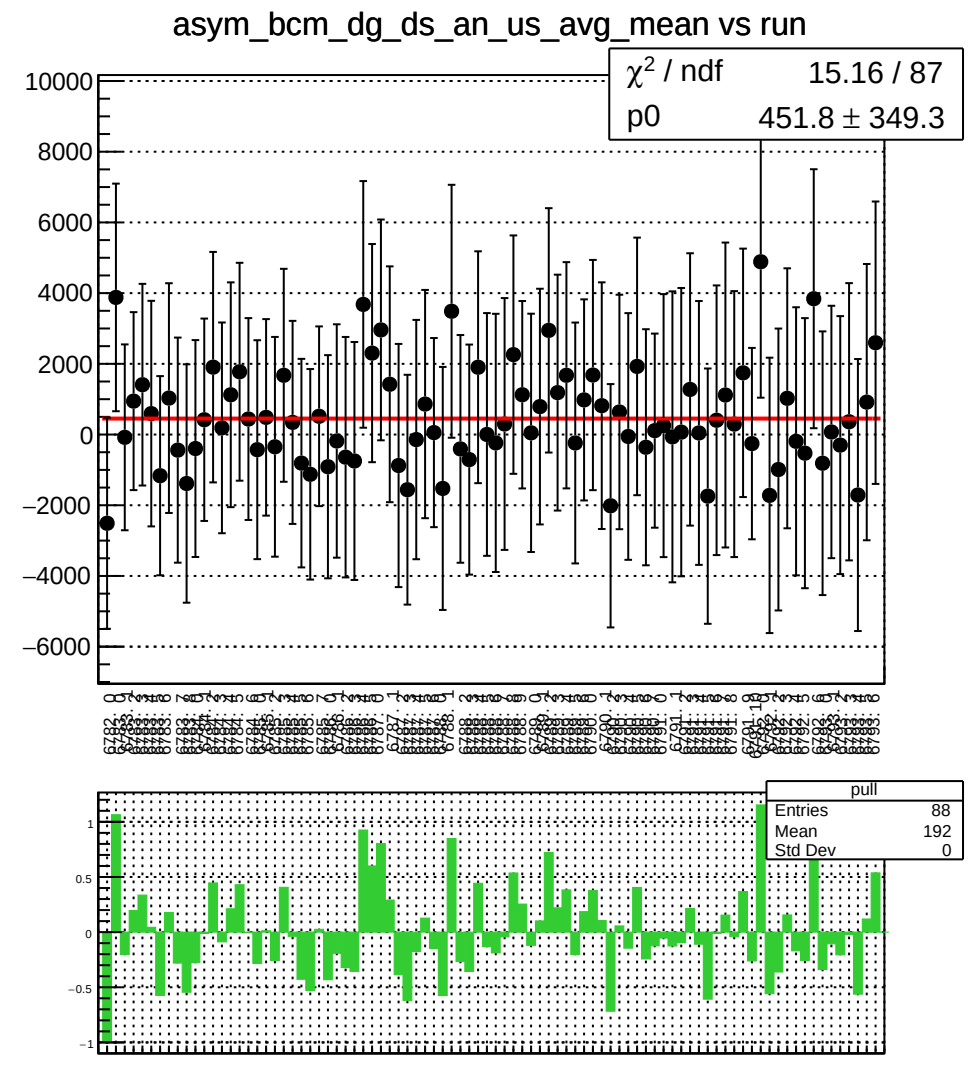

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.811e+04 / 87
p0 317.7 ± 0.2483
420
400
380
360
340
320
300
280
260
240

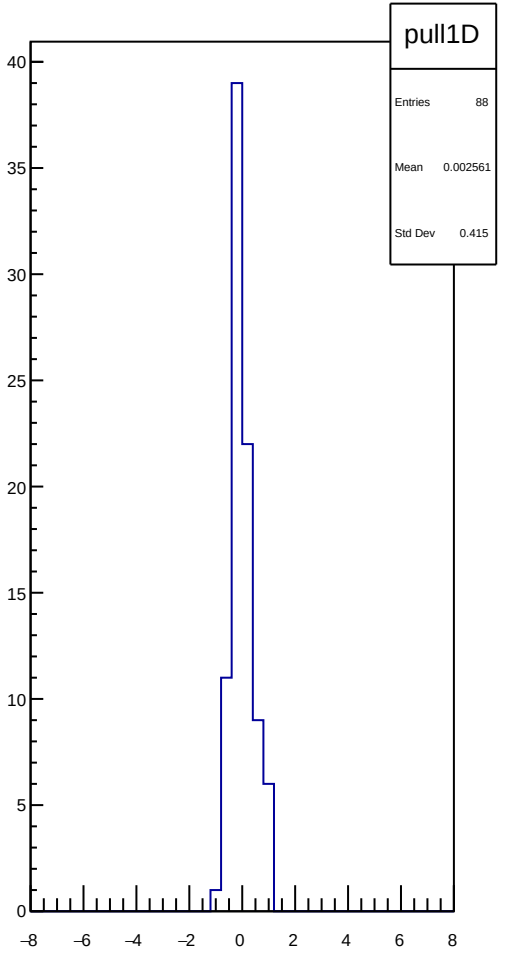

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 114.4 / 87
p0 52.71 ± 24.27
1000
500
0
−500
−1000
pull
Entries 88
Mean 60.71
Std Dev 0
2
1
0
−1
−2
−3

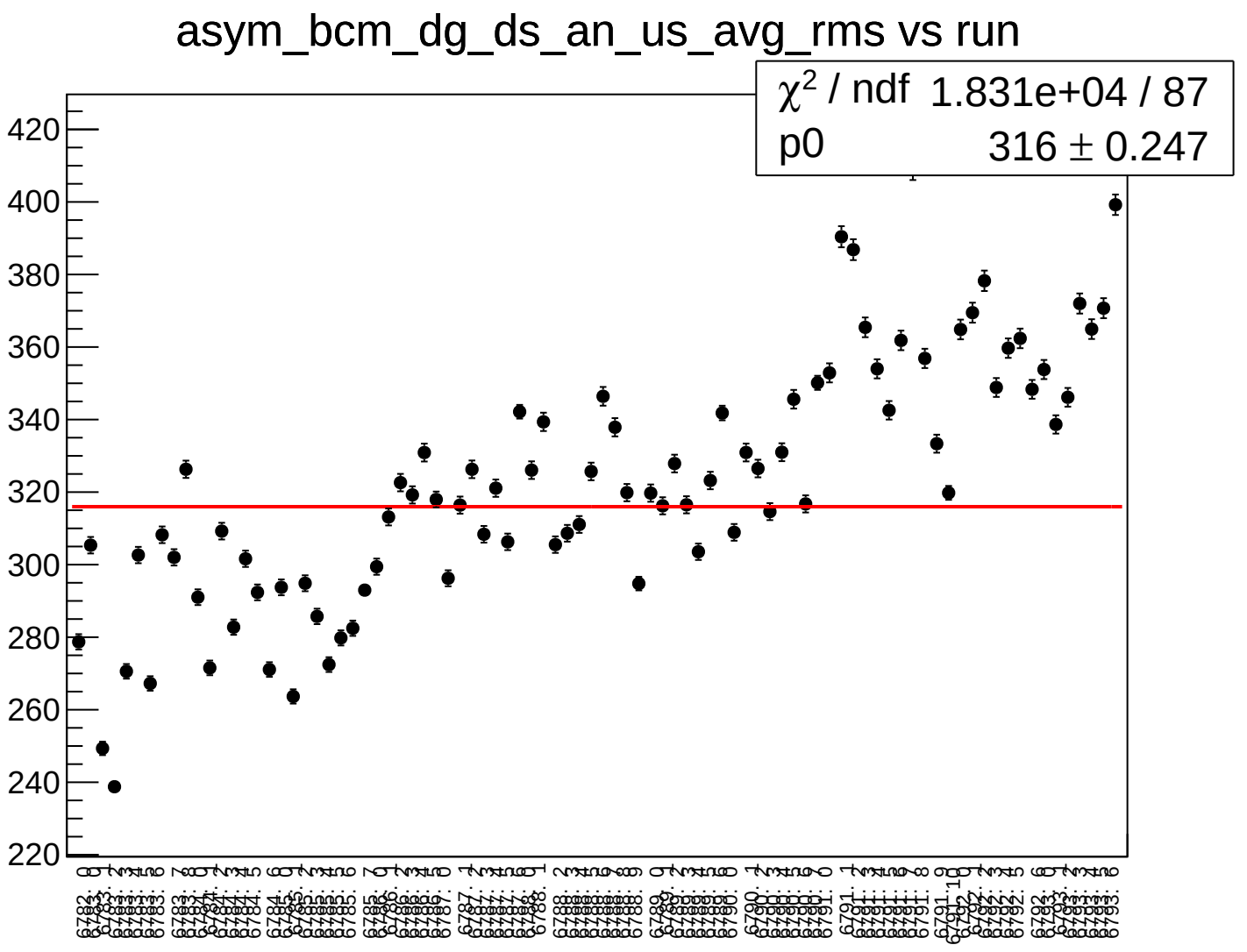

pull1D
Entries 88
Mean 0.01043
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

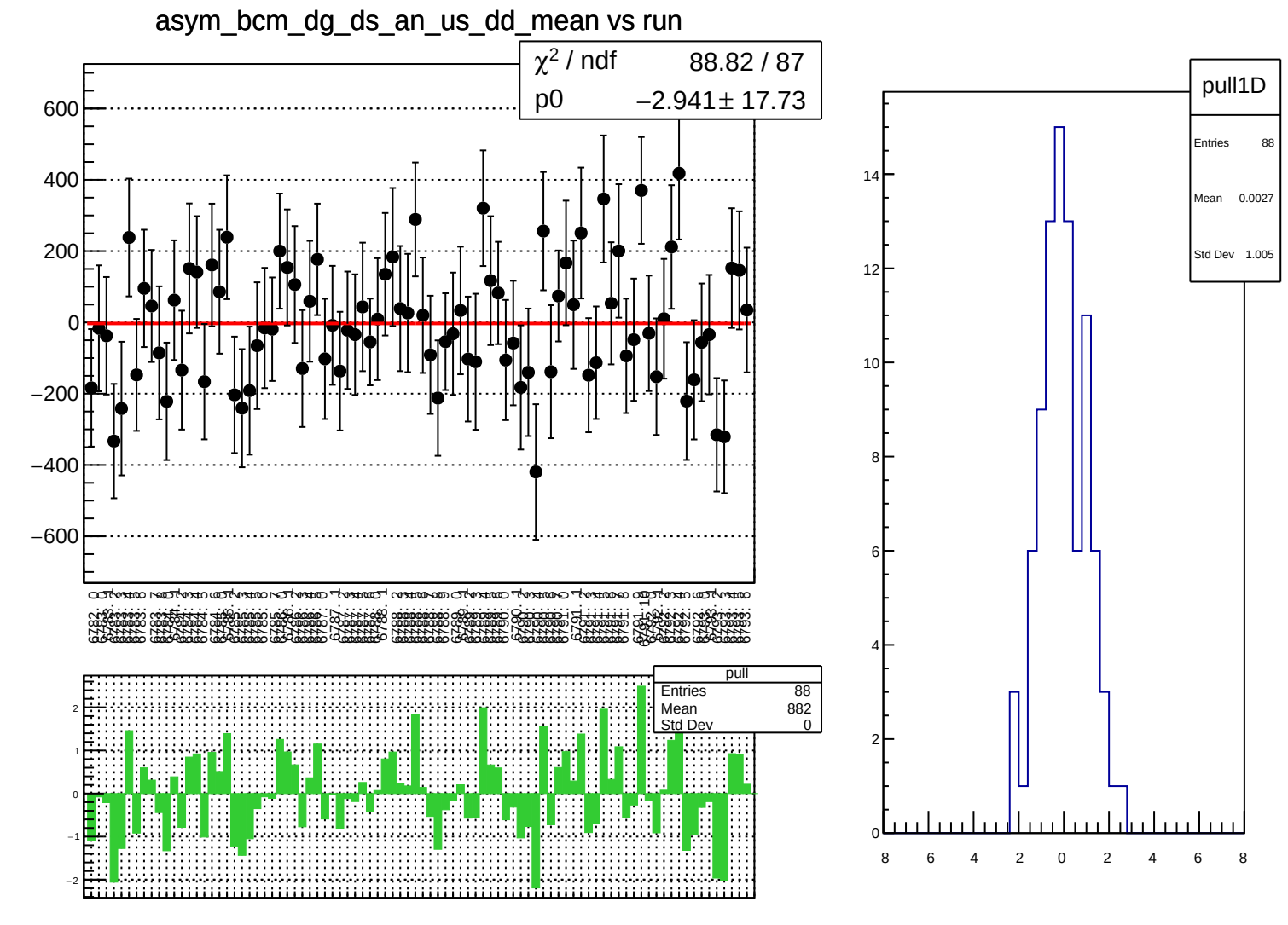
asym_bcm_dg_us_an_us_dd_rms vs run

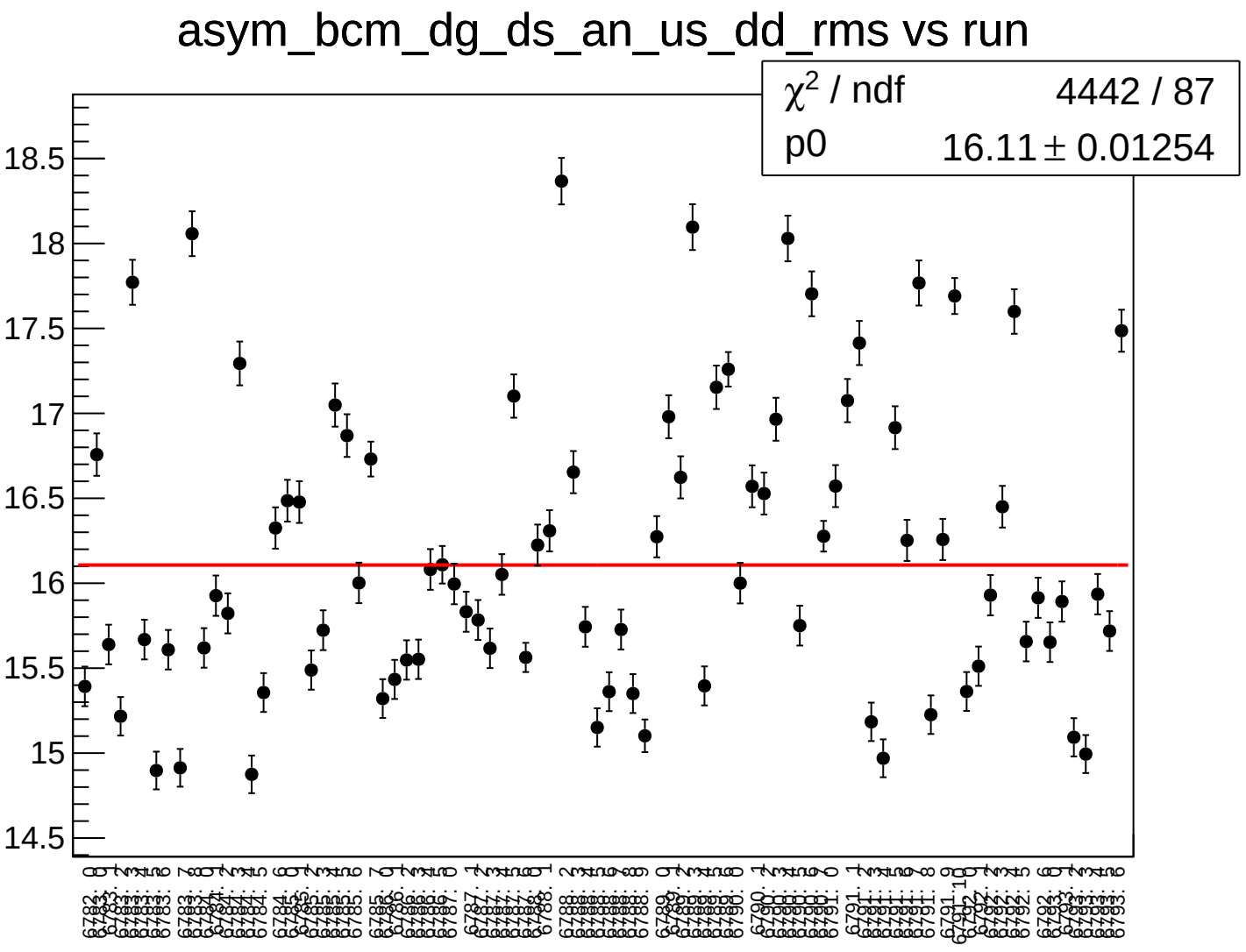


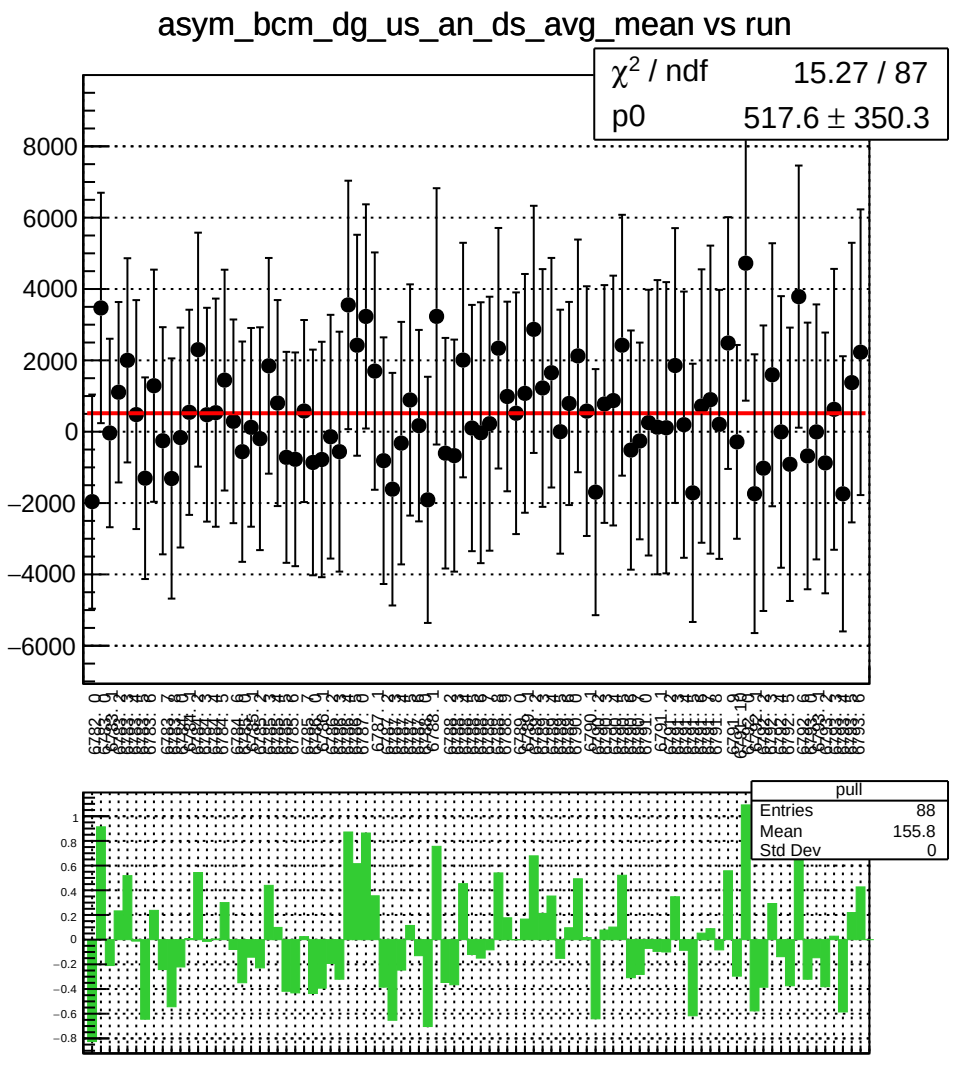

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 15.16 / 87
p0 451.8 ± 349.3
pull
Entries 88
Mean 192
Std Dev 0

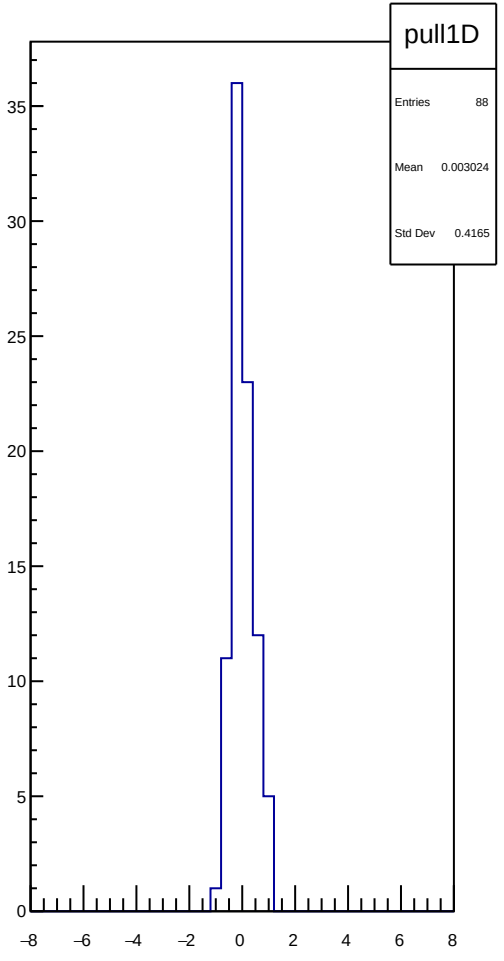

pull1D
Entries 88
Mean 0.002561
Std Dev 0.415

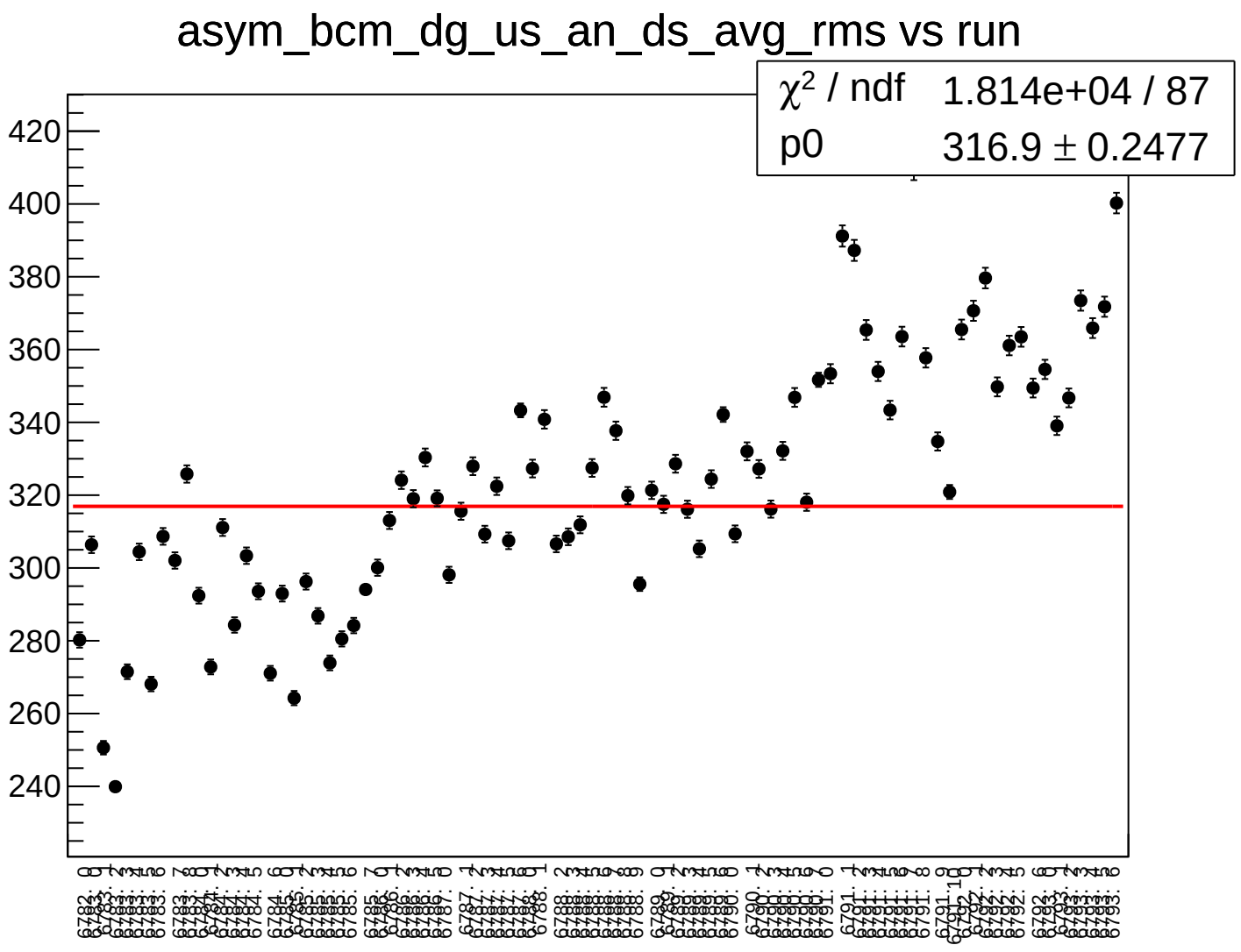

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.831e+04 / 87
p0 316 ± 0.247
420
400
380
360
340
320
300
280
260
240
220

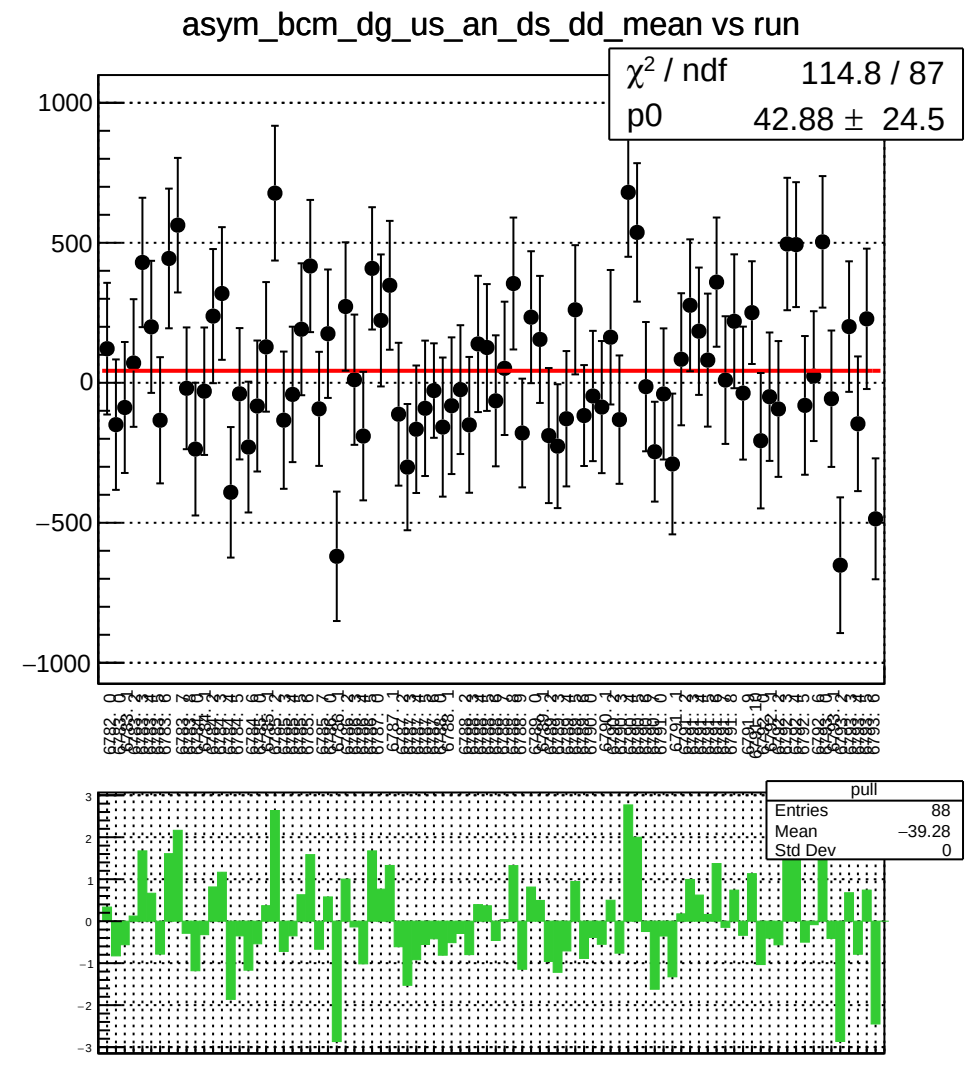

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 88.82 / 87
p0 −2.941 ± 17.73
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 882
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0027
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

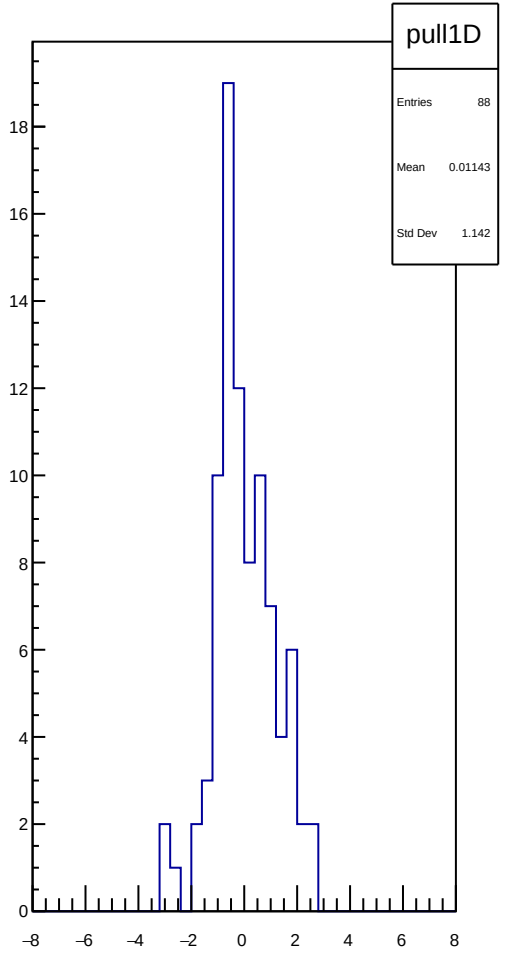

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4442 / 87
p0 16.11 ± 0.01254
18.5
18
17.5
17
16.5
16
15.5
15
14.5

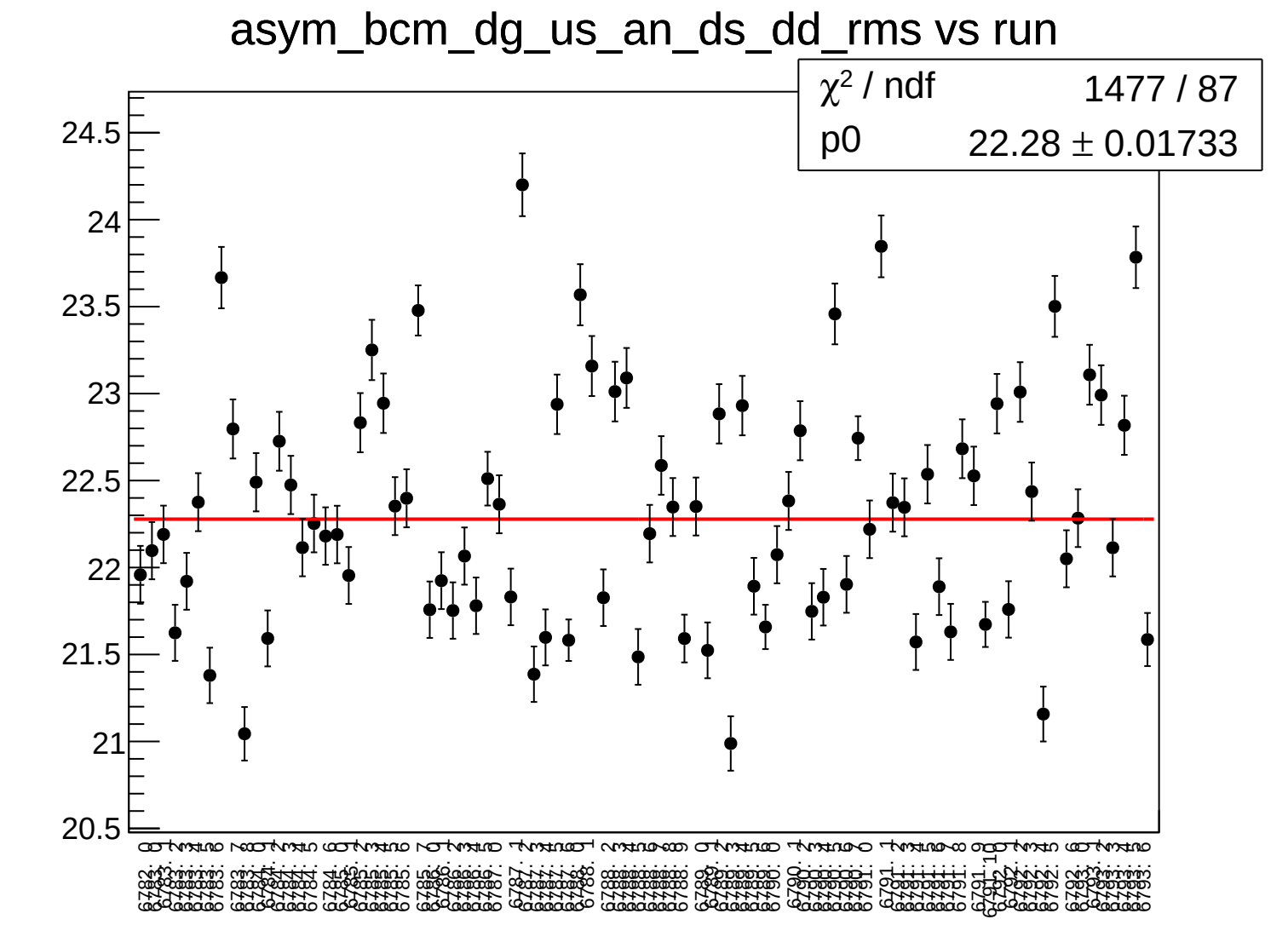

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 15.27 / 87
p0 517.6 ± 350.3
pull
Entries 88
Mean 155.8
Std Dev 0

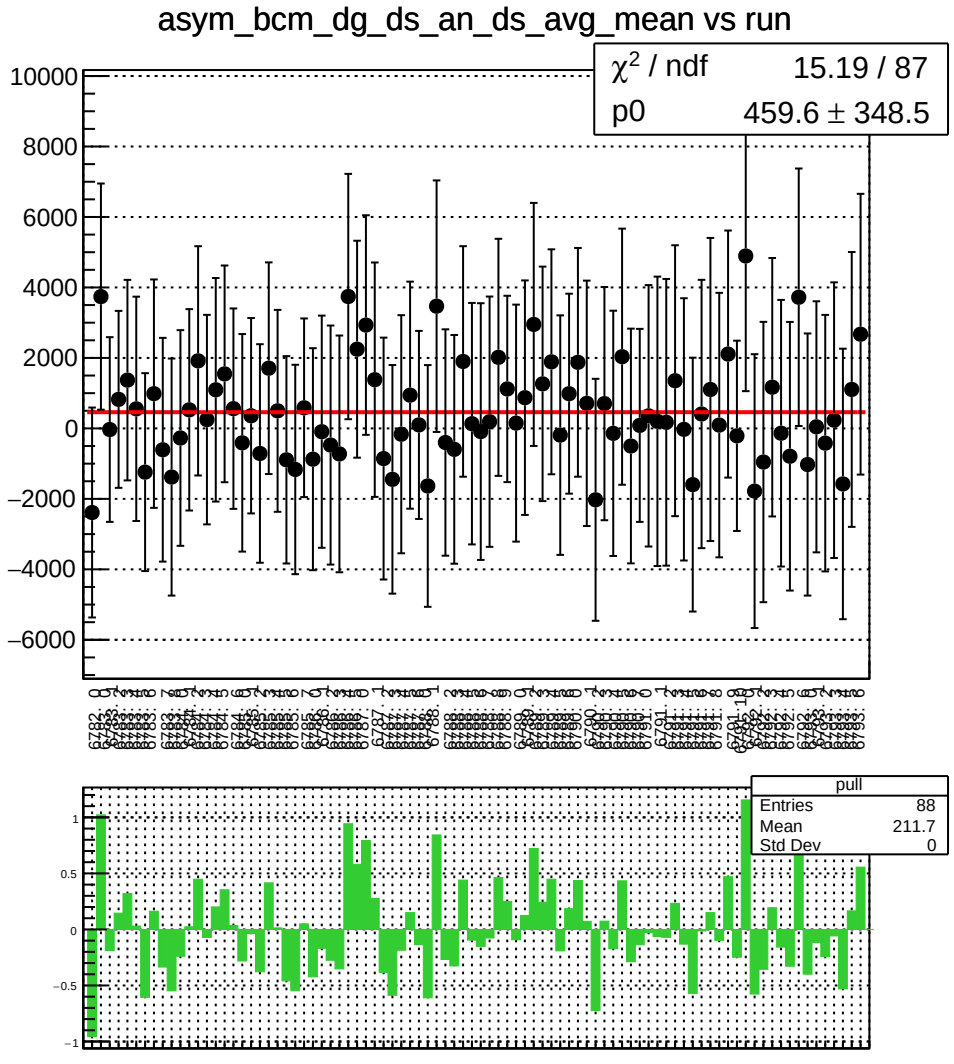

pull1D
Entries 88
Mean 0.003024
Std Dev 0.4165

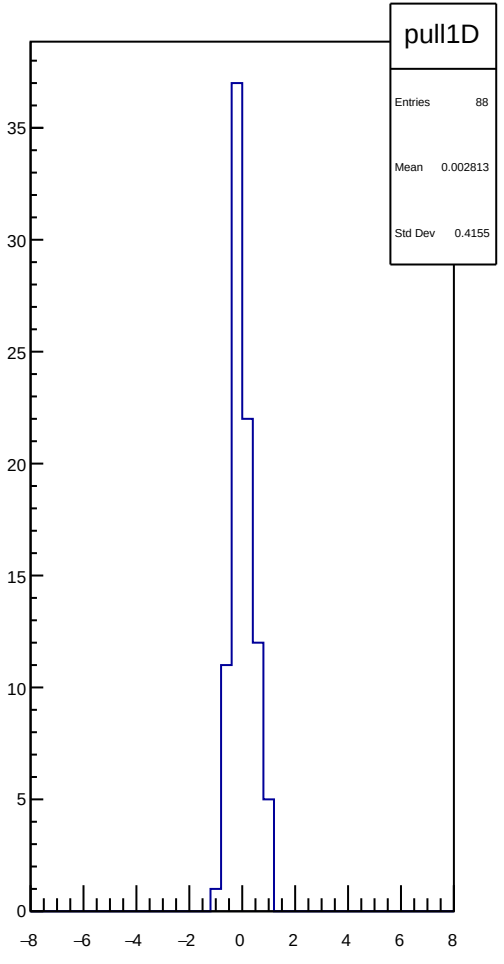

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.814e+04 / 87
p0 316.9 ± 0.2477
420
400
380
360
340
320
300
280
260
240

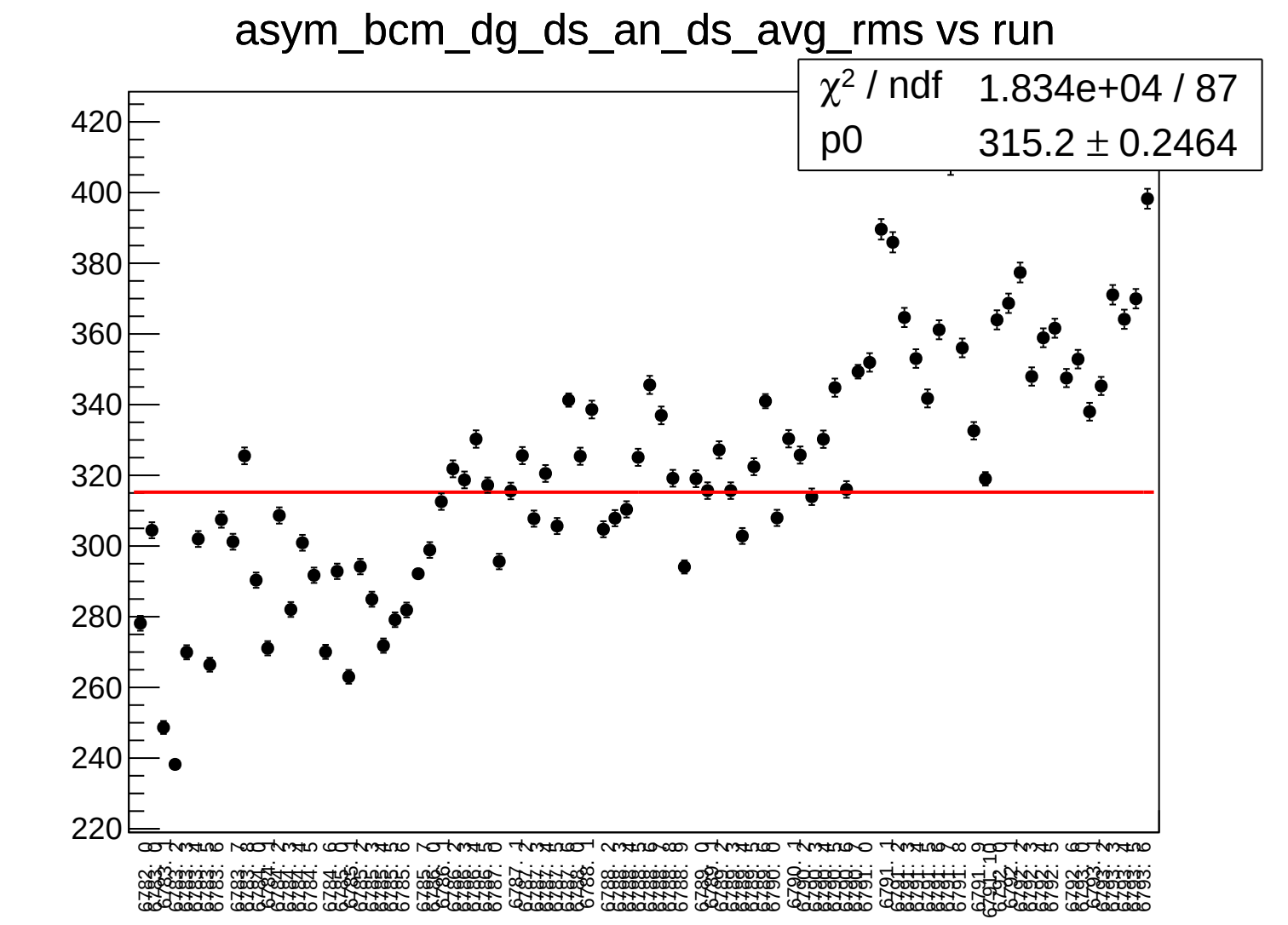

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 114.8 / 87
p0 42.88 ± 24.5
1000
500
0
−500
−1000
pull
Entries 88
Mean −39.28
Std Dev 0
3
2
1
0
−1
−2
−3

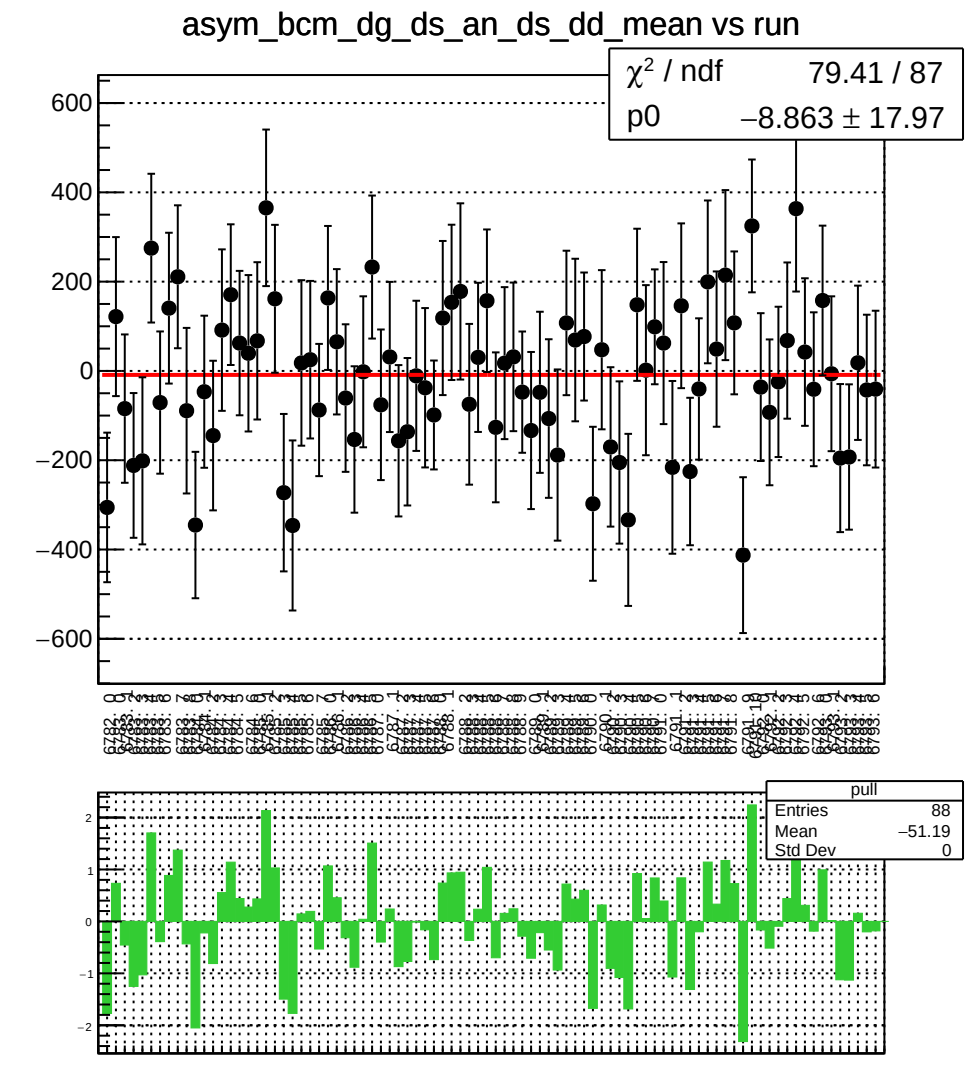

pull1D
Entries 88
Mean 0.01143
Std Dev 1.142
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

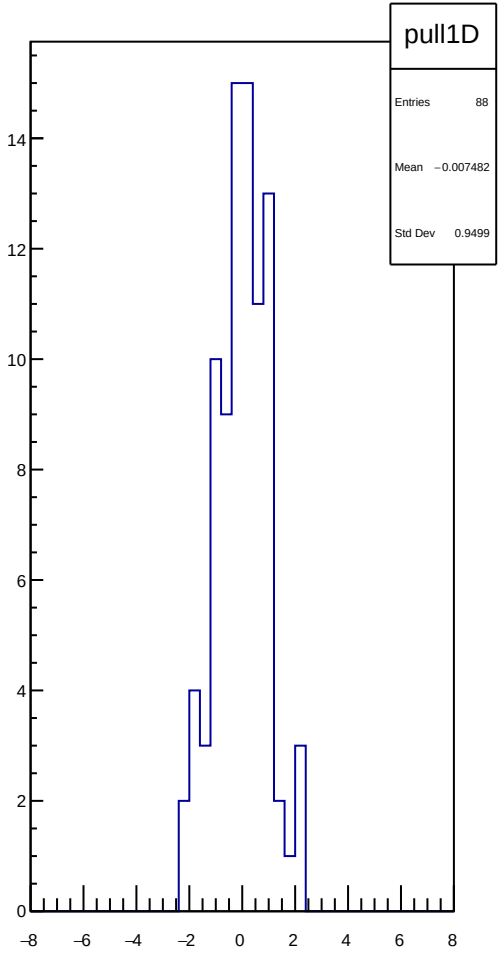

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1477 / 87
p0 22.28 ± 0.01733
24.5
24
23.5
23
22.5
22
21.5
21
20.5

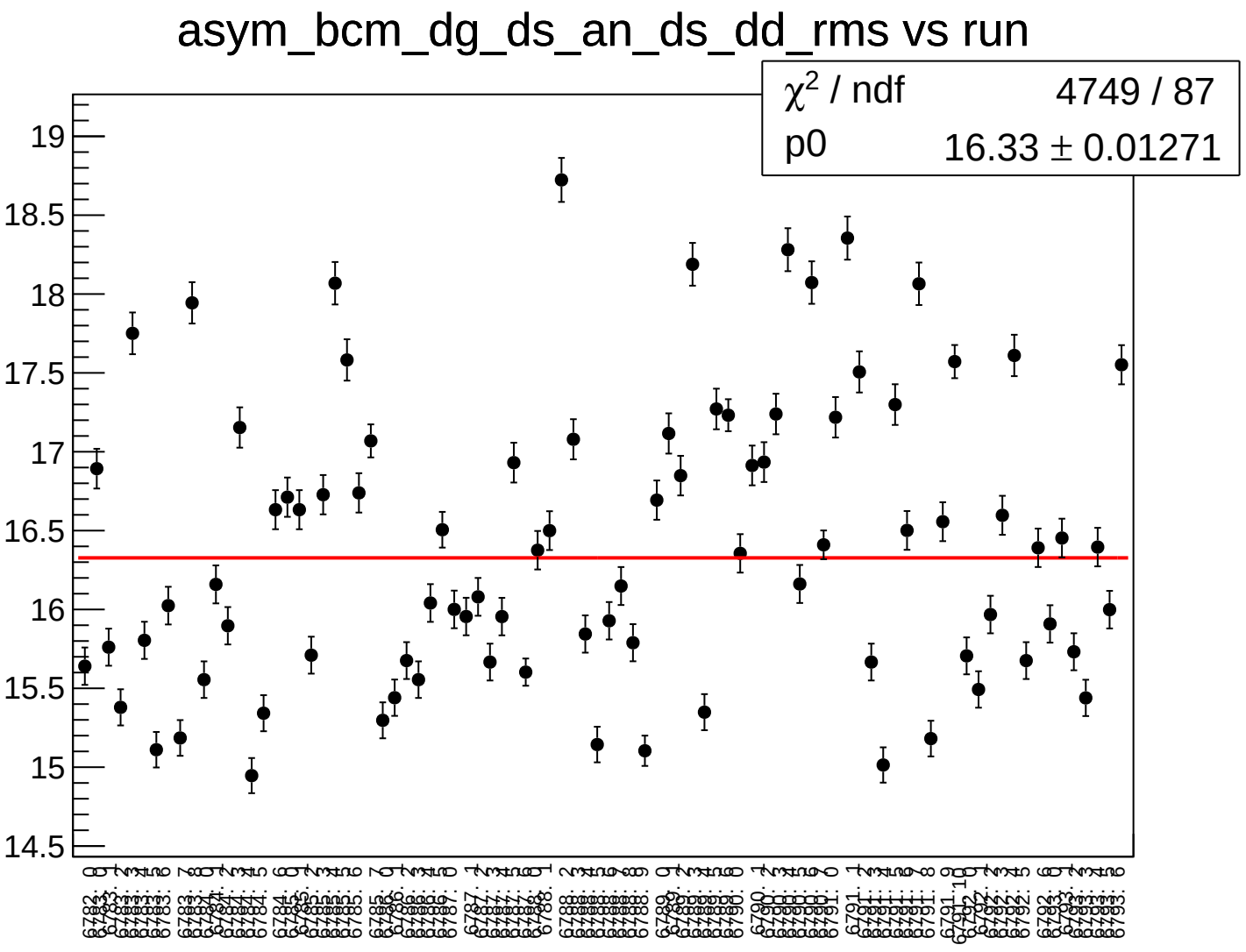

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 15.19 / 87
p0 459.6 ± 348.5
pull
Entries 88
Mean 211.7
Std Dev 0

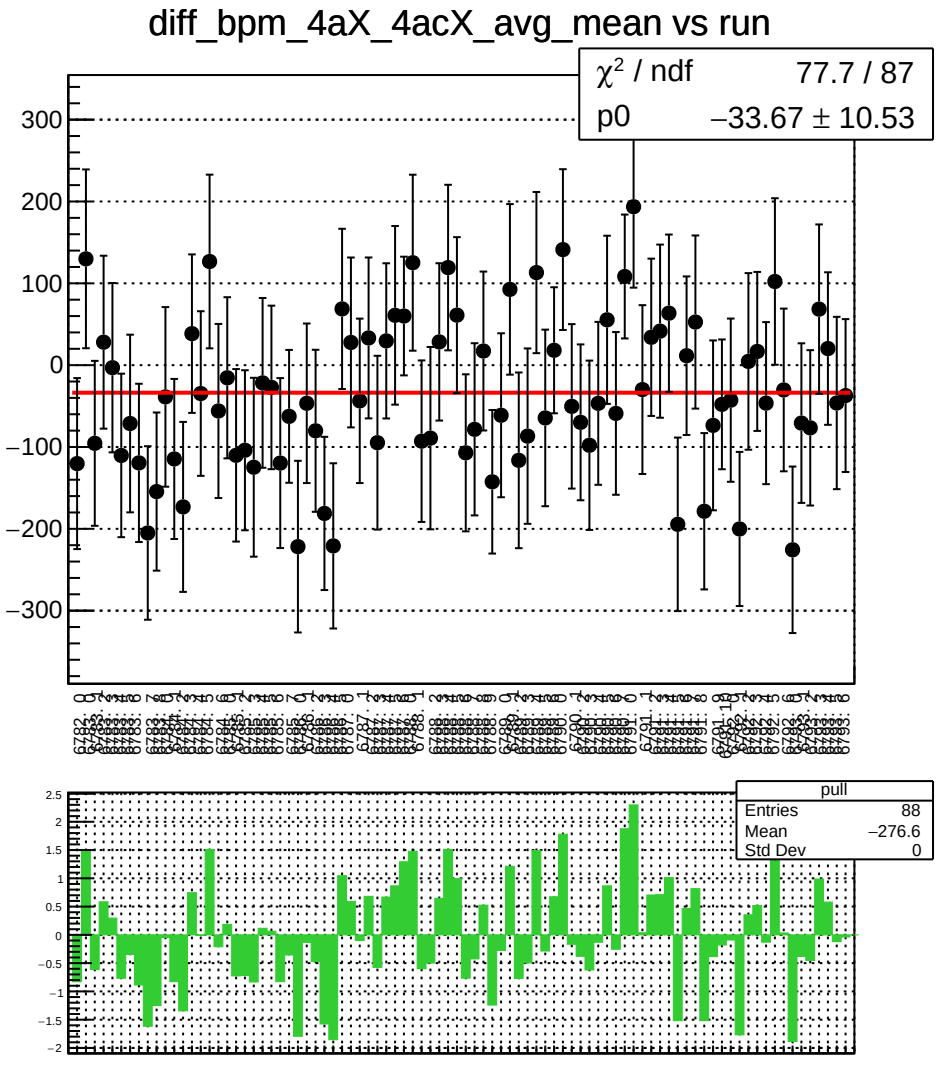

pull1D
Entries 88
Mean 0.002813
Std Dev 0.4155

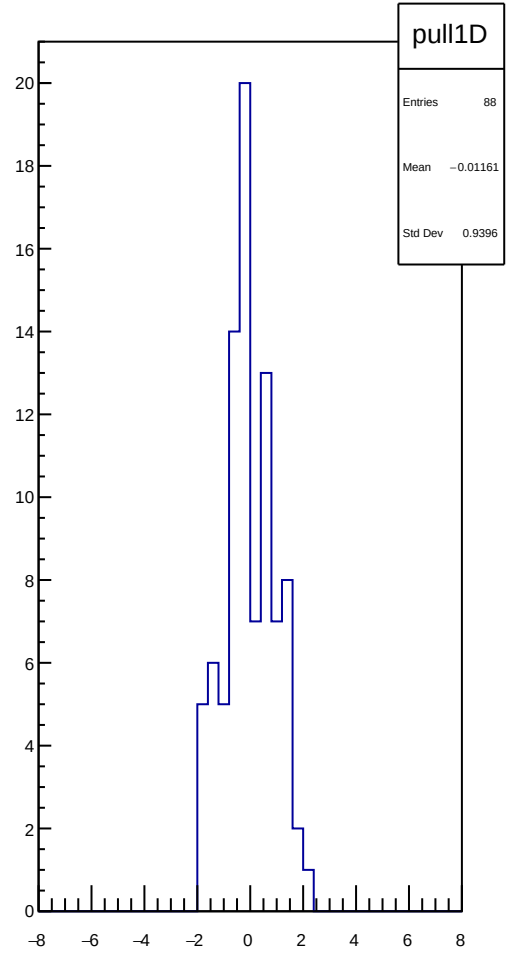

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.834e+04 / 87
p0 315.2 ± 0.2464
420
400
380
360
340
320
300
280
260
240
220

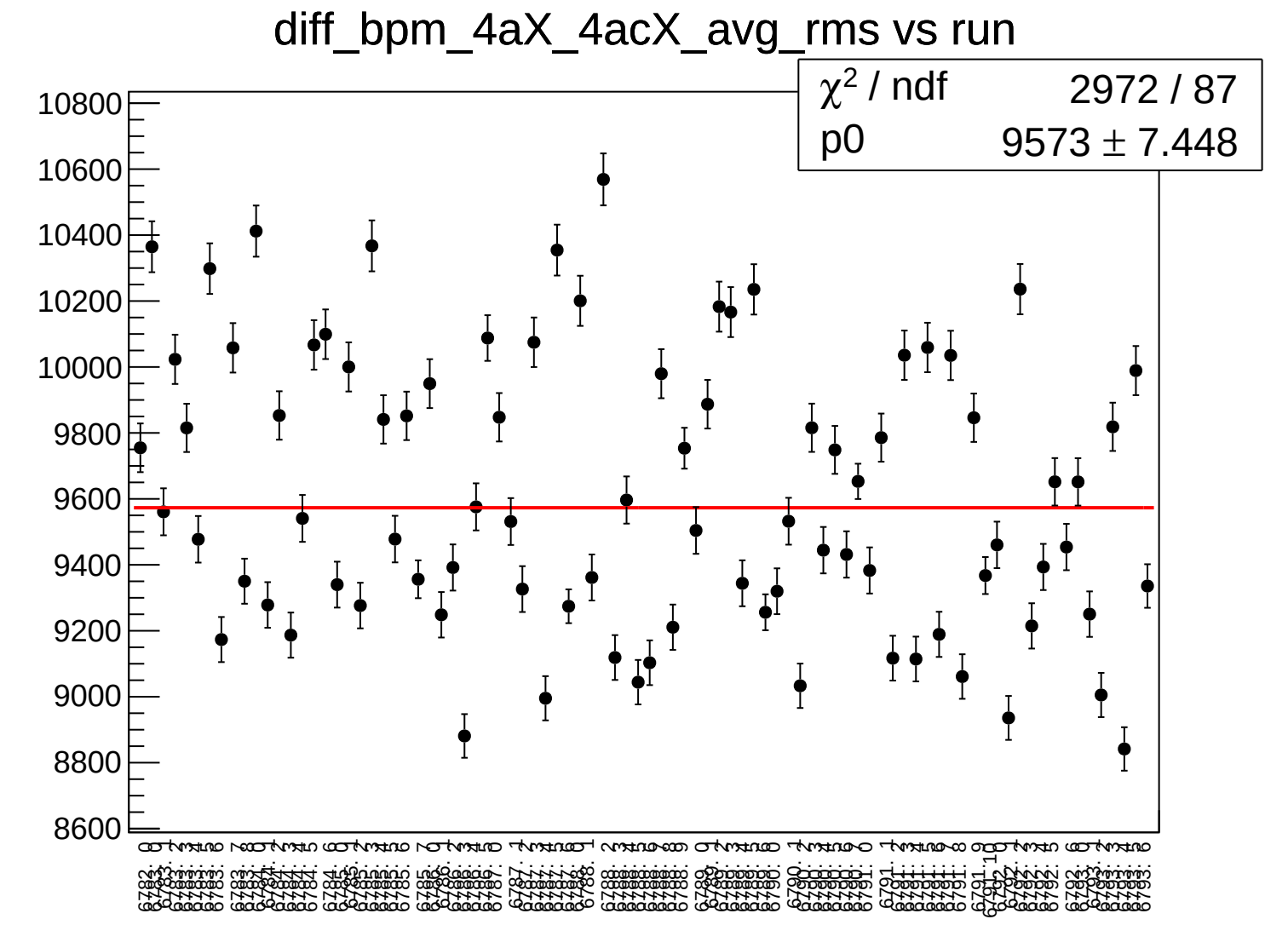

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 79.41 / 87
p0 −8.863 ± 17.97
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −51.19
Std Dev 0
2
1
0
−1
−2

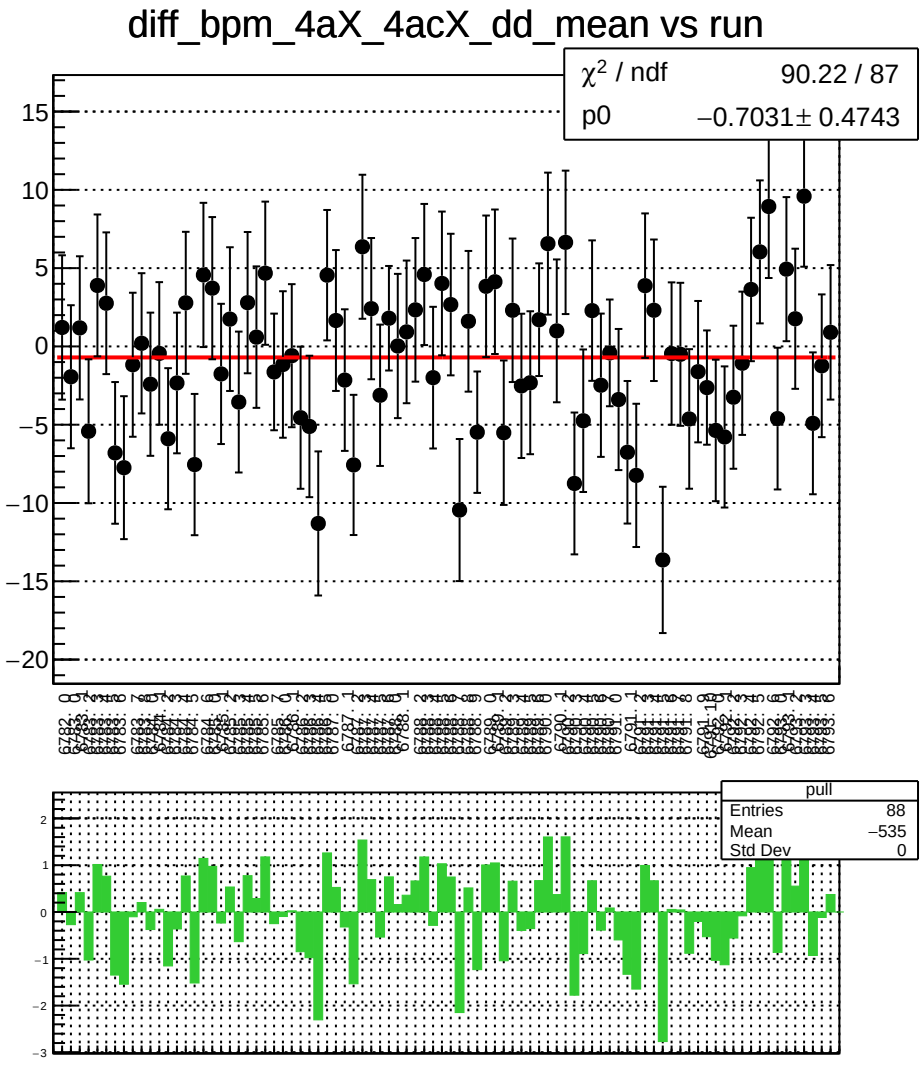

pull1D
Entries 88
Mean −0.007482
Std Dev 0.9499
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

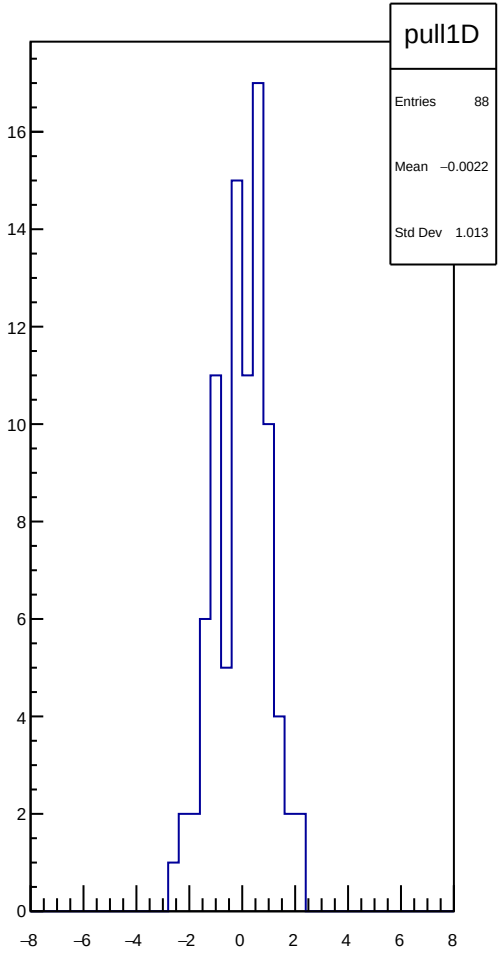

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 4749 / 87
p0 16.33 ± 0.01271
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

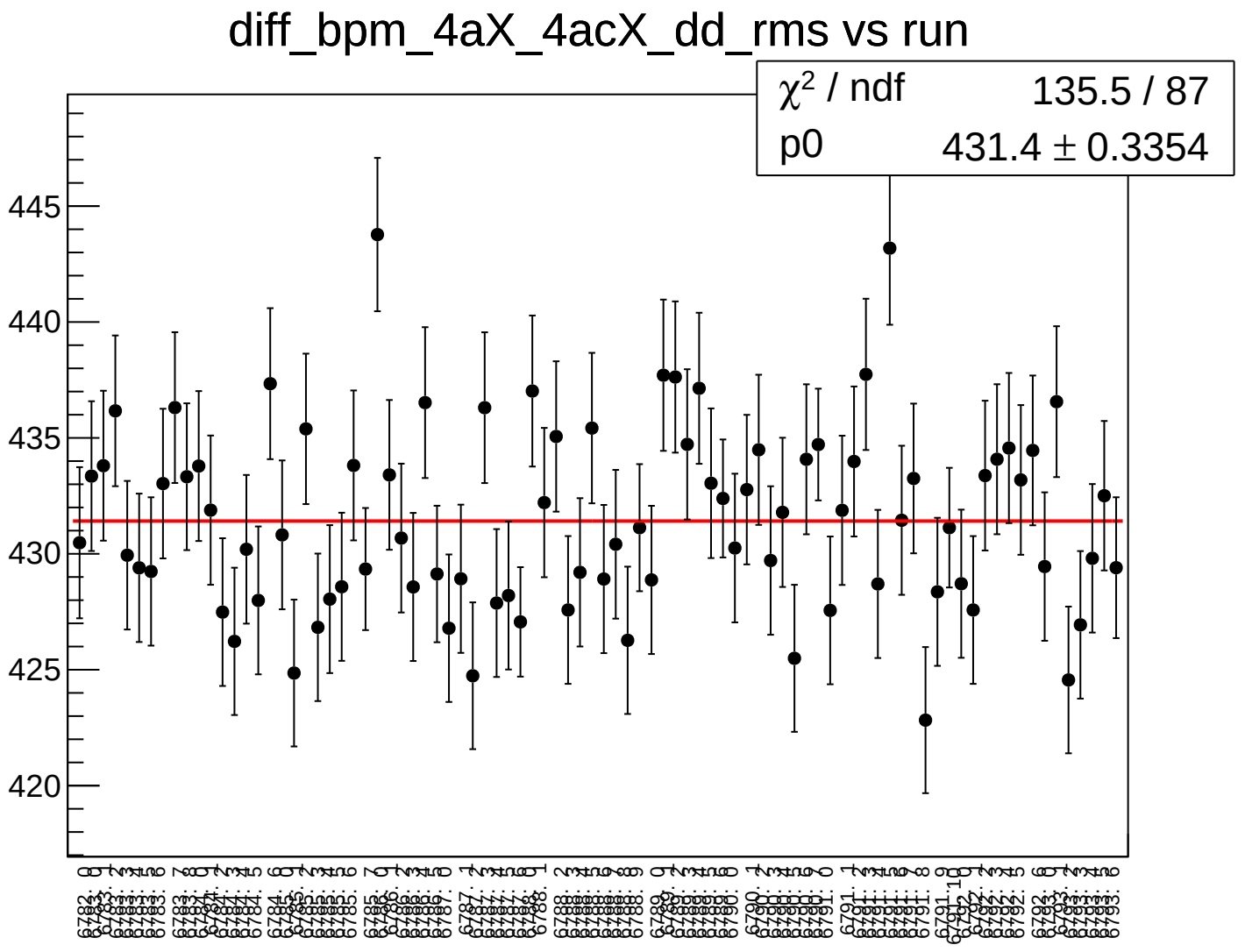

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 77.7 / 87
p0 −33.67 ± 10.53
pull
Entries 88
Mean −276.6
Std Dev 0

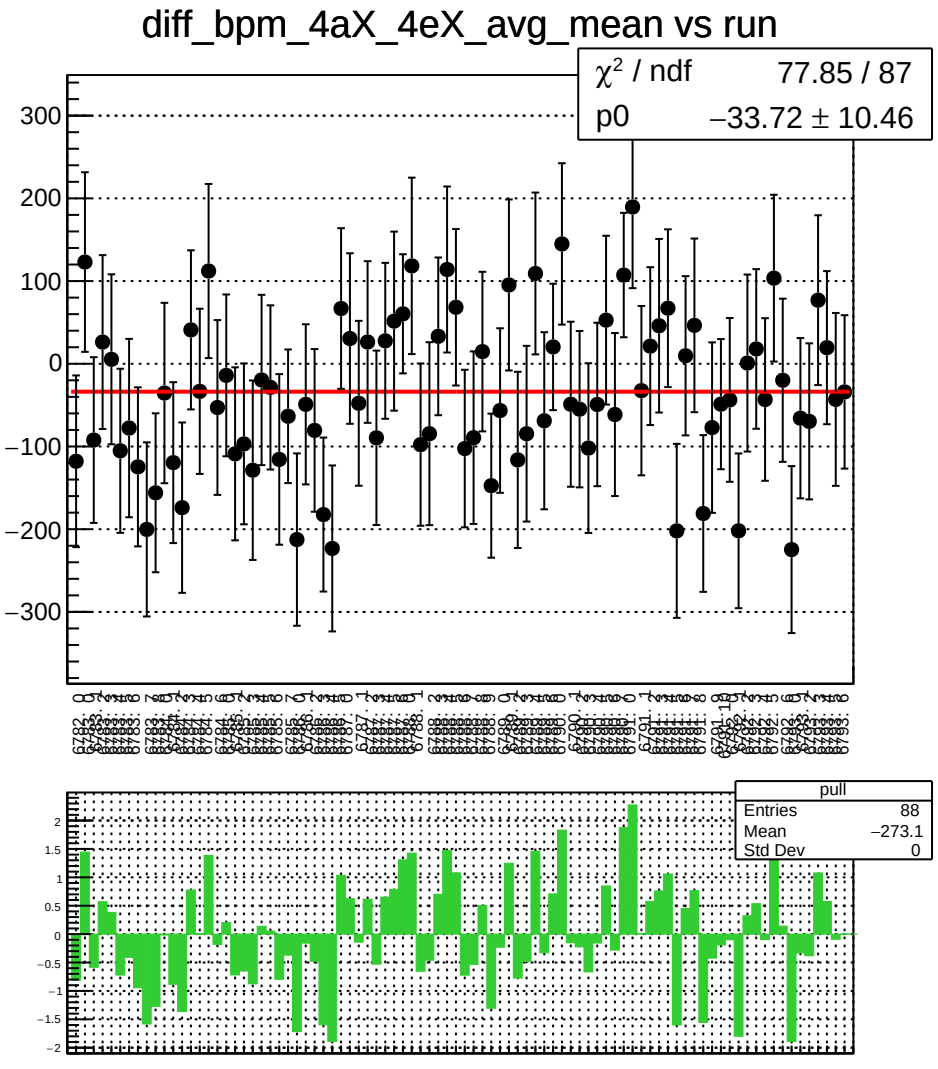

pull1D
Entries 88
Mean −0.01161
Std Dev 0.9396

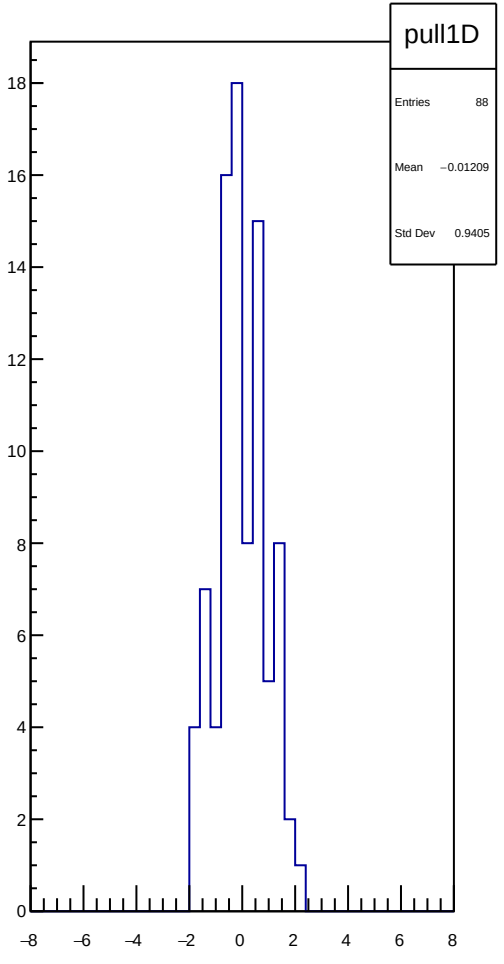

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2972 / 87
p0 9573 ± 7.448
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

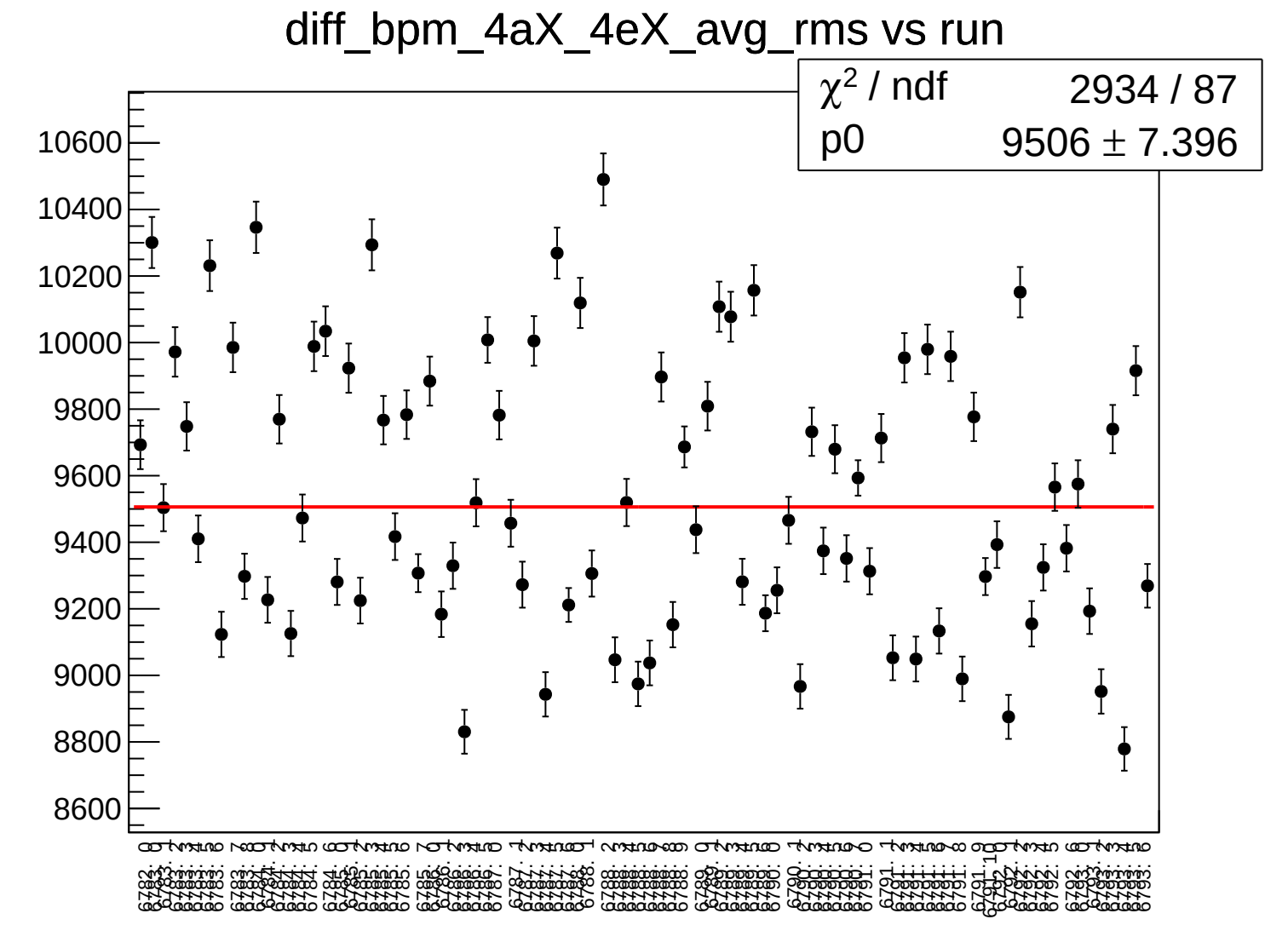

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 90.22 / 87
p0 −0.7031± 0.4743
pull
Entries 88
Mean −535
Std Dev 0

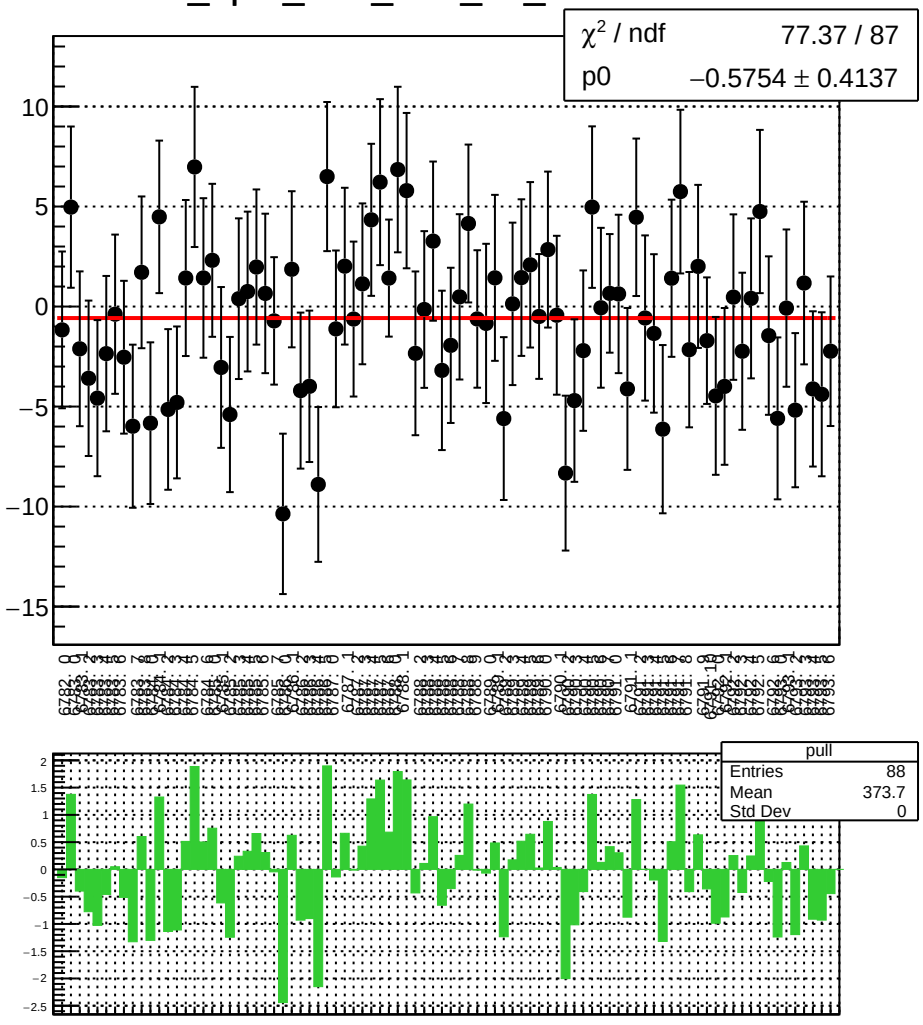

pull1D
Entries 88
Mean −0.0022
Std Dev 1.013

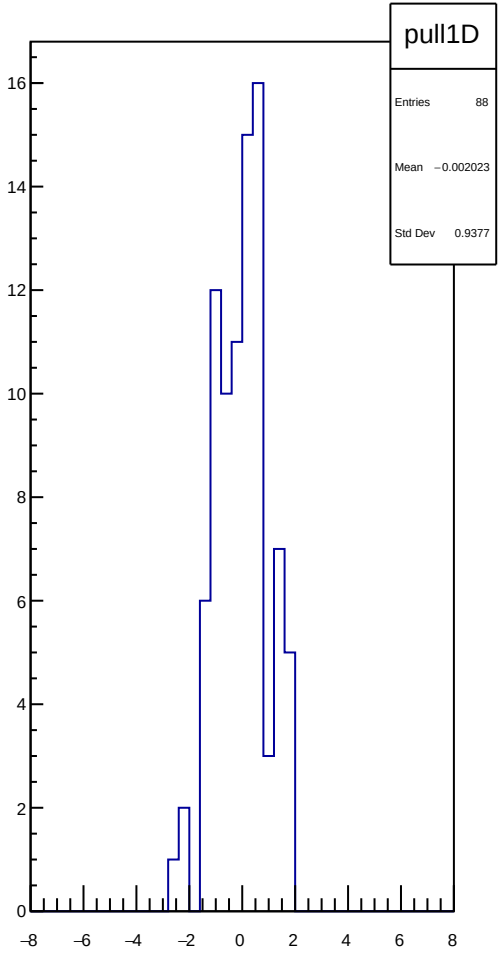

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 135.5 / 87
p0 431.4 ± 0.3354
445
440
435
430
425
420

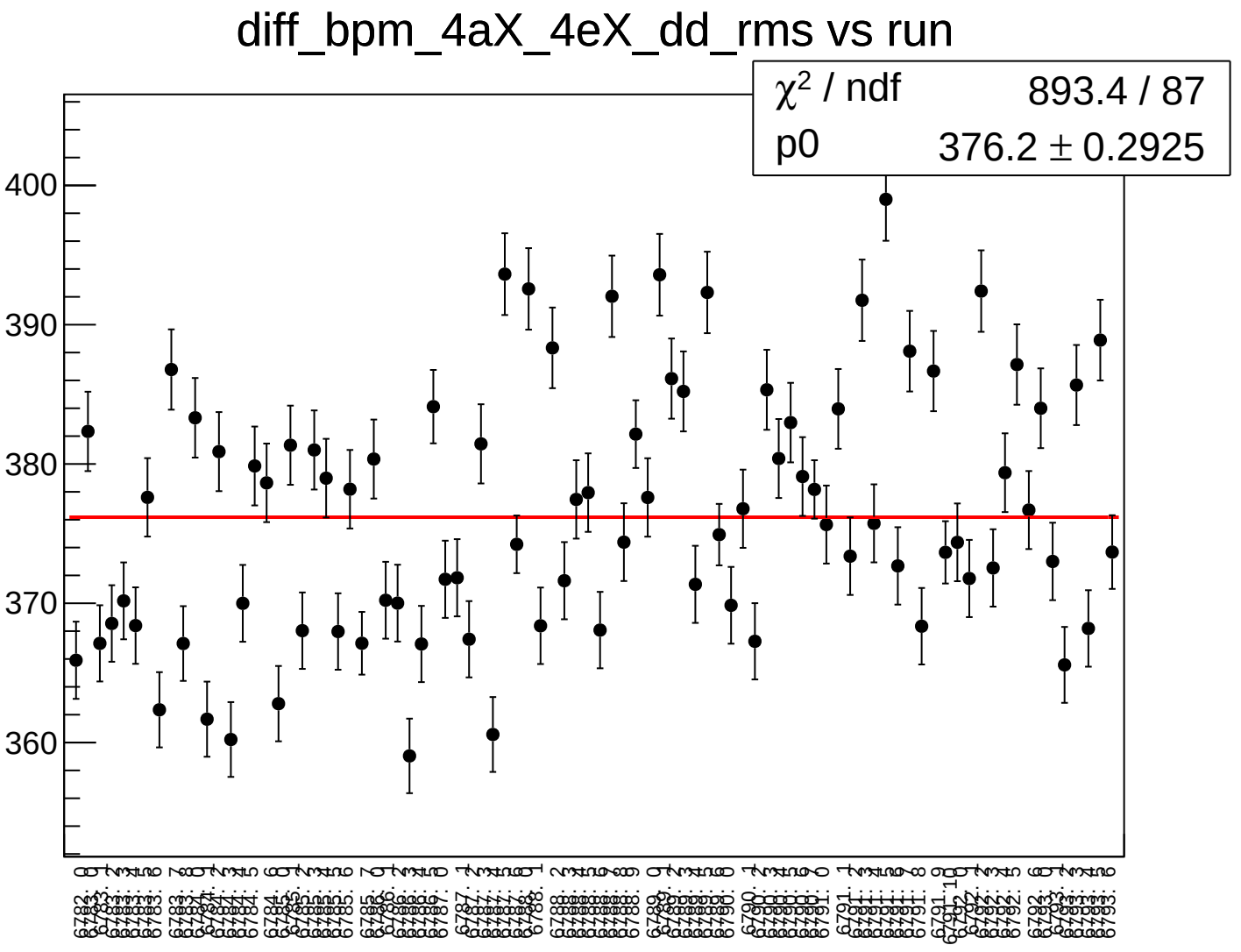

diff_bpm_4aX_4eX_avg_mean vs run
χ^2 / ndf 77.85 / 87
p0 −33.72 ± 10.46
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −273.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

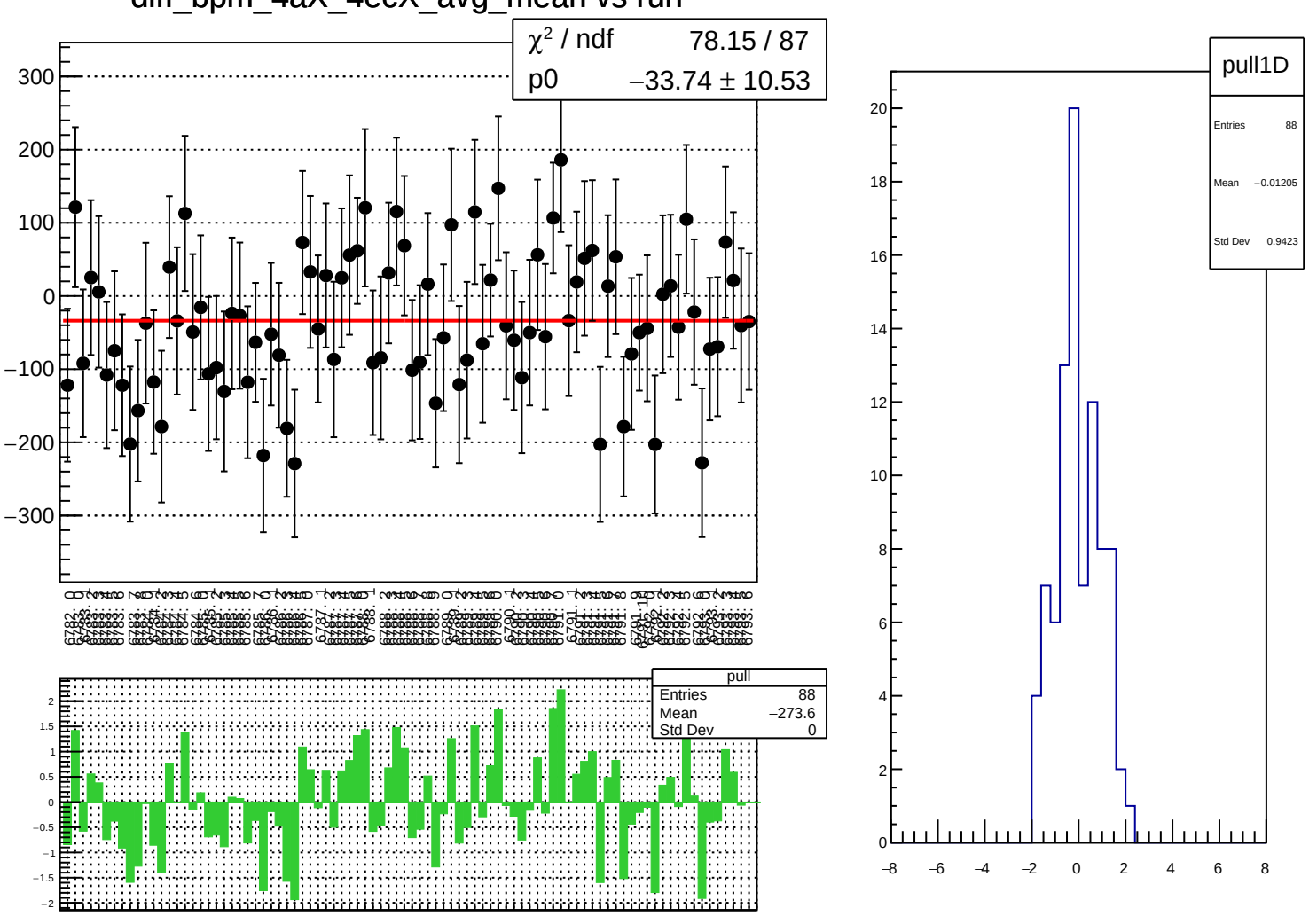

pull1D
Entries 88
Mean −0.01209
Std Dev 0.9405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

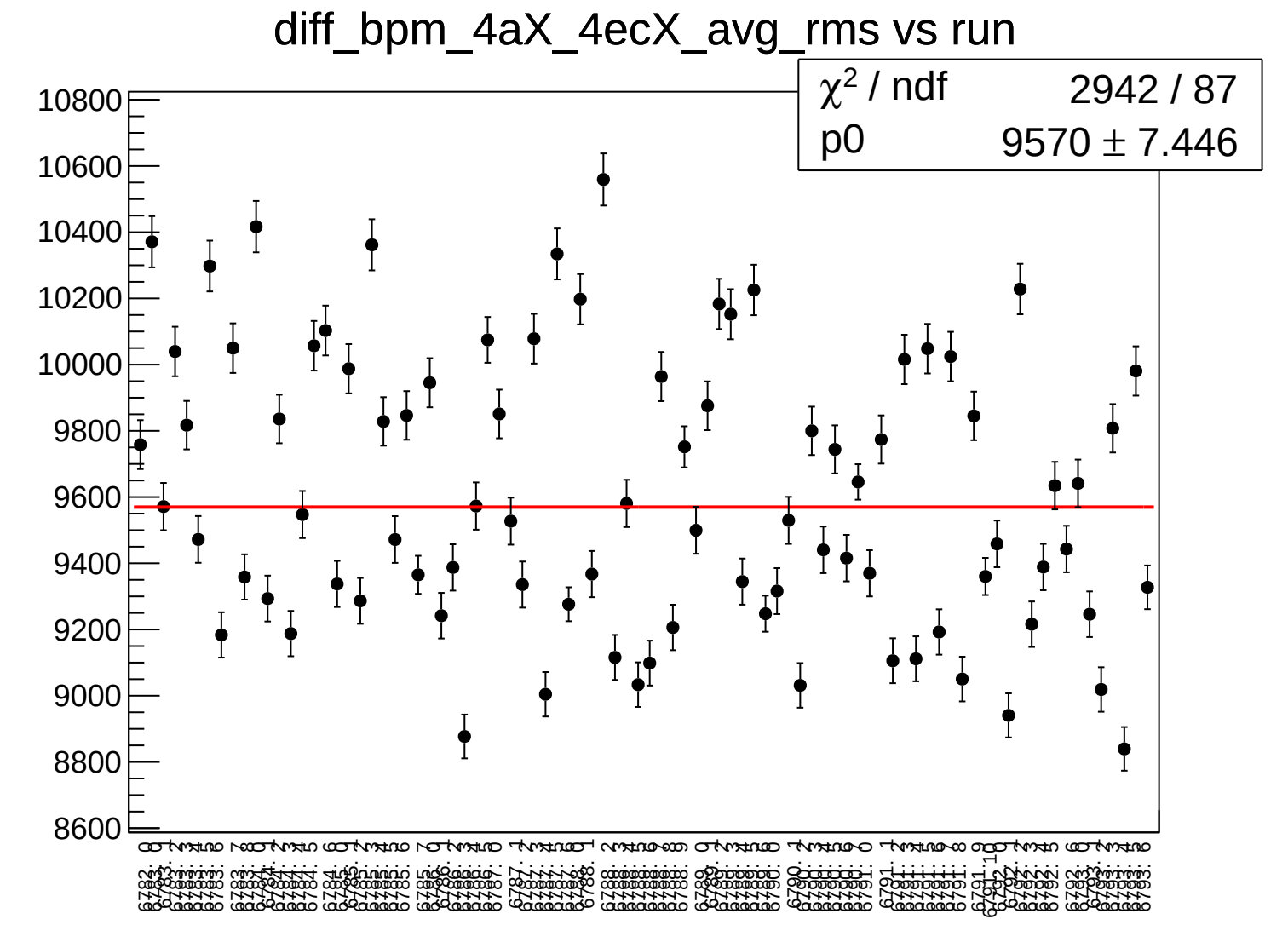

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2934 / 87
p0 9506 ± 7.396
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

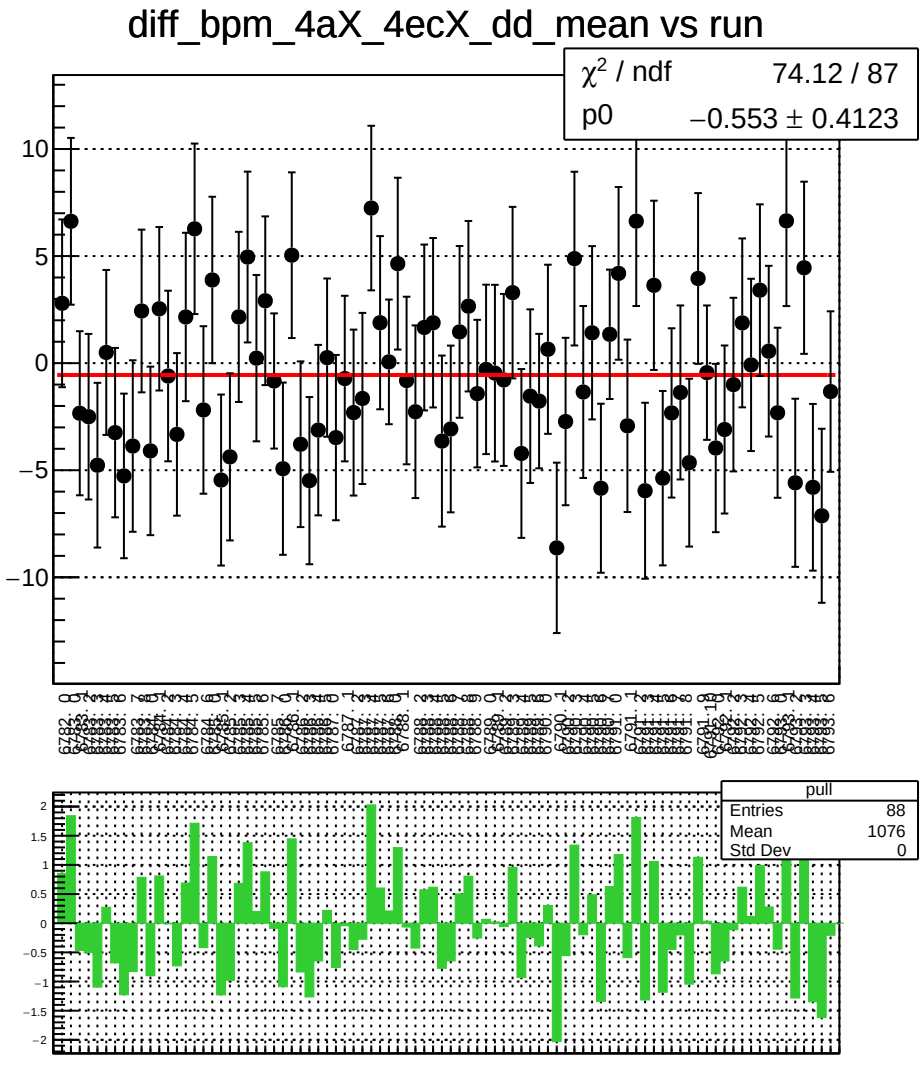

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 77.37 / 87
p0 −0.5754 ± 0.4137
pull
Entries 88
Mean 373.7
Std Dev 0

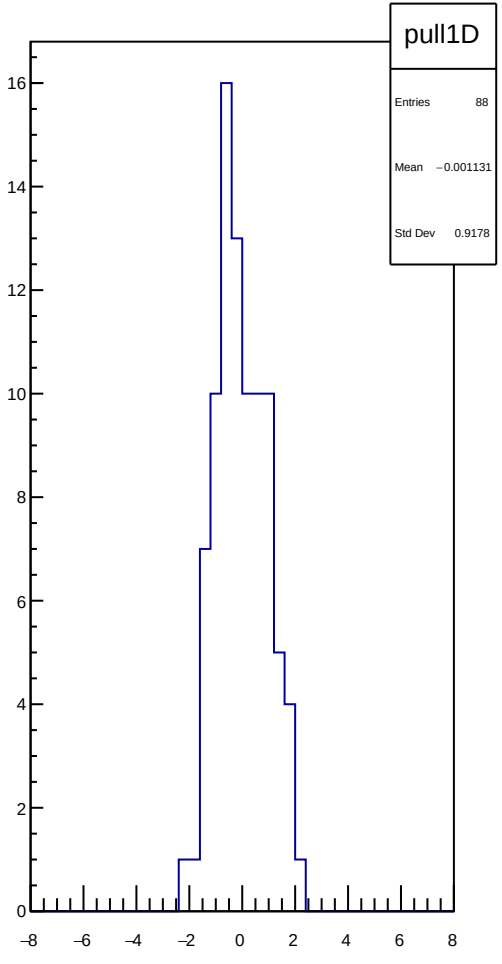

pull1D
Entries 88
Mean −0.002023
Std Dev 0.9377

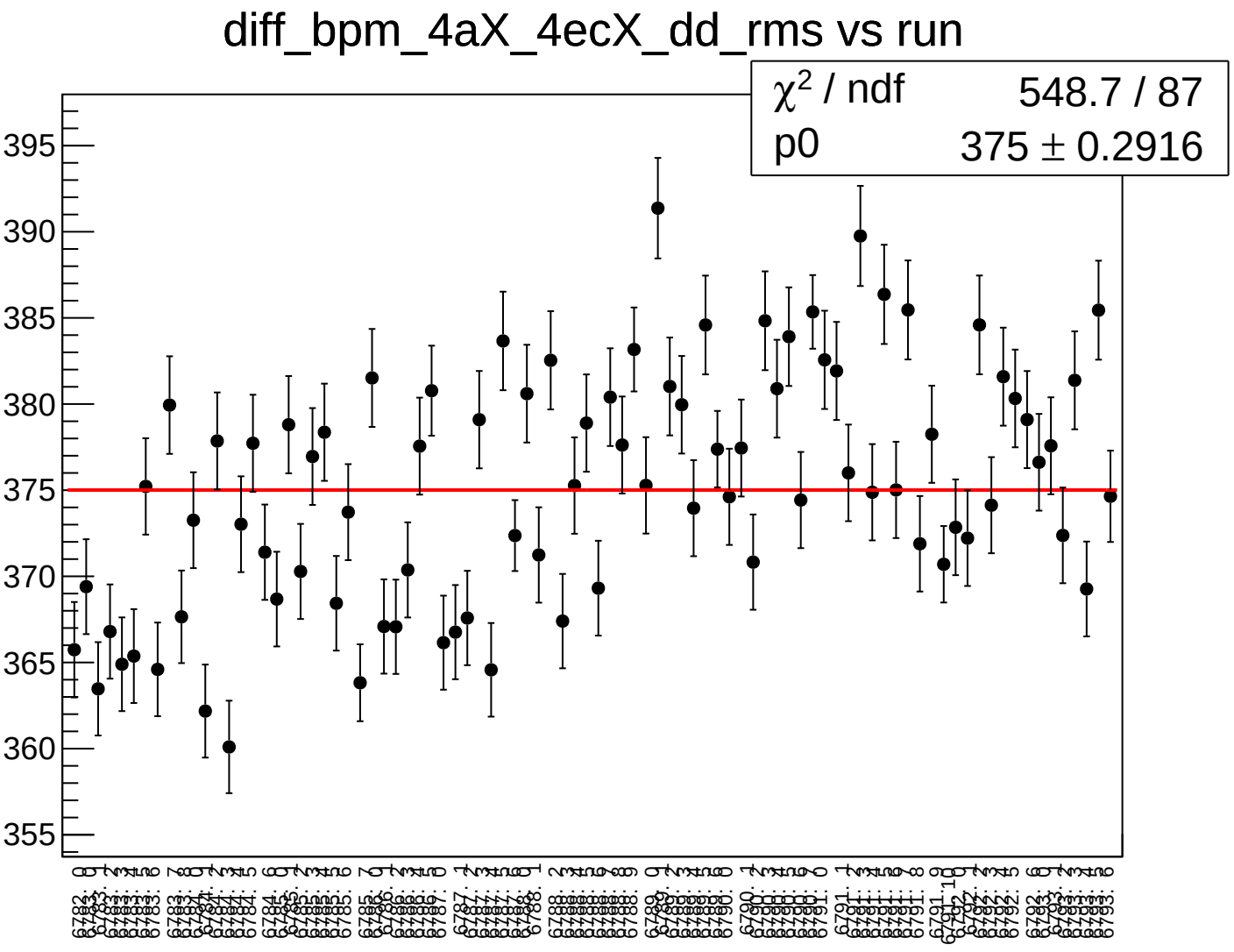

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 893.4 / 87
p0 376.2 ± 0.2925
400
390
380
370
360

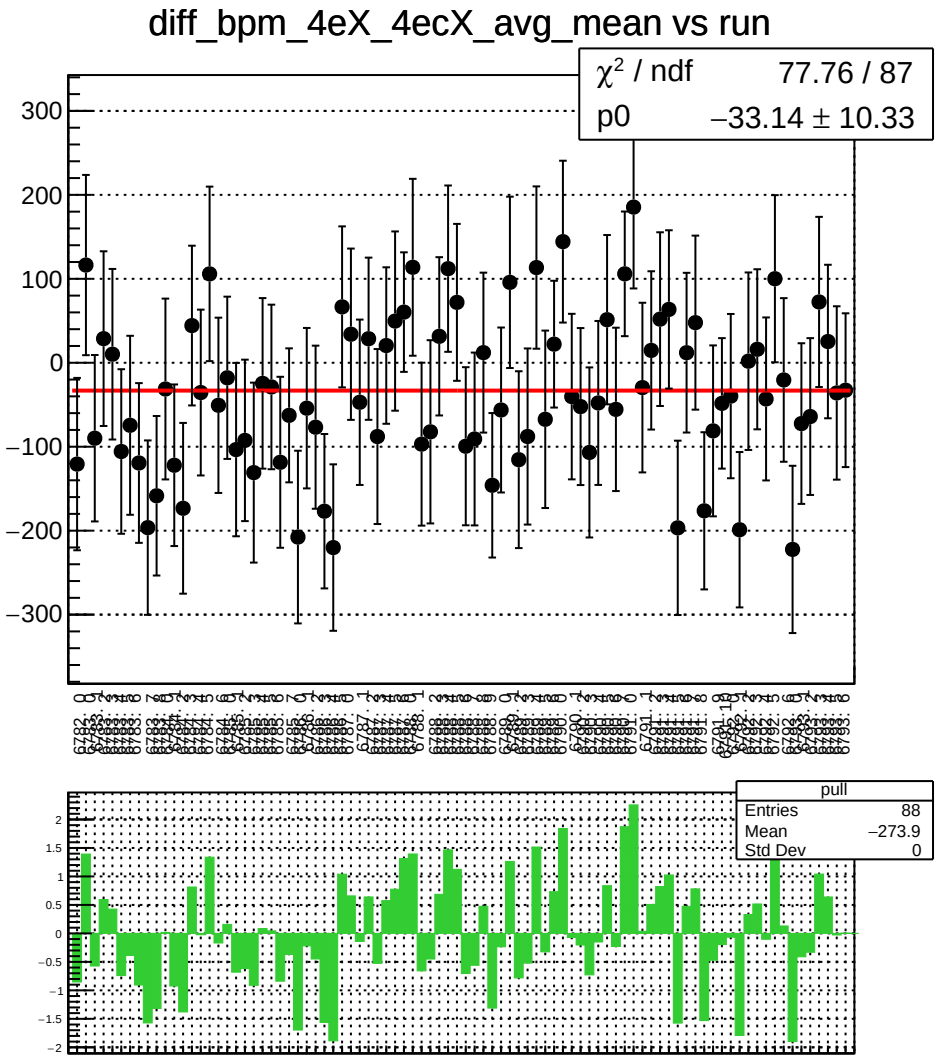

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 78.15 / 87
p0 −33.74 ± 10.53
pull
Entries 88
Mean −273.6
Std Dev 0
pull1D
Entries 88
Mean −0.01205
Std Dev 0.9423

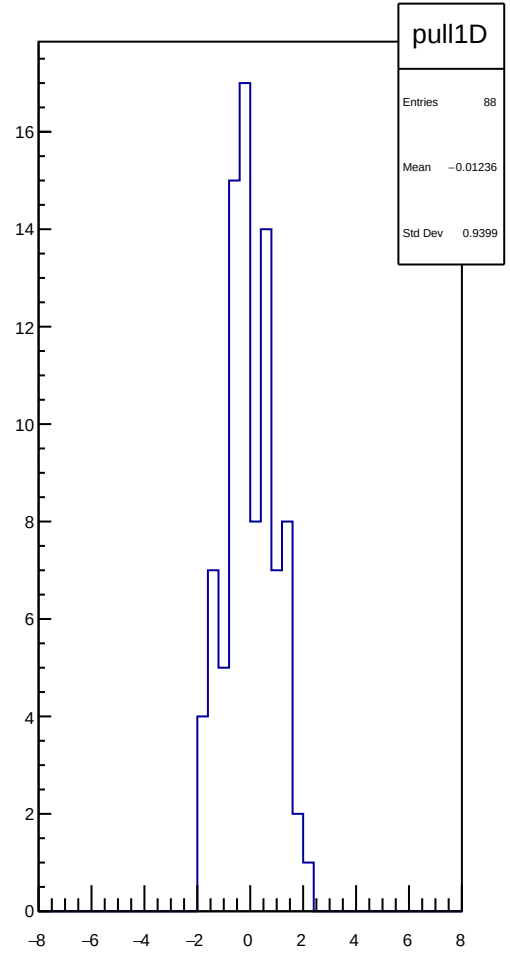

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2942 / 87
p0 9570 ± 7.446
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

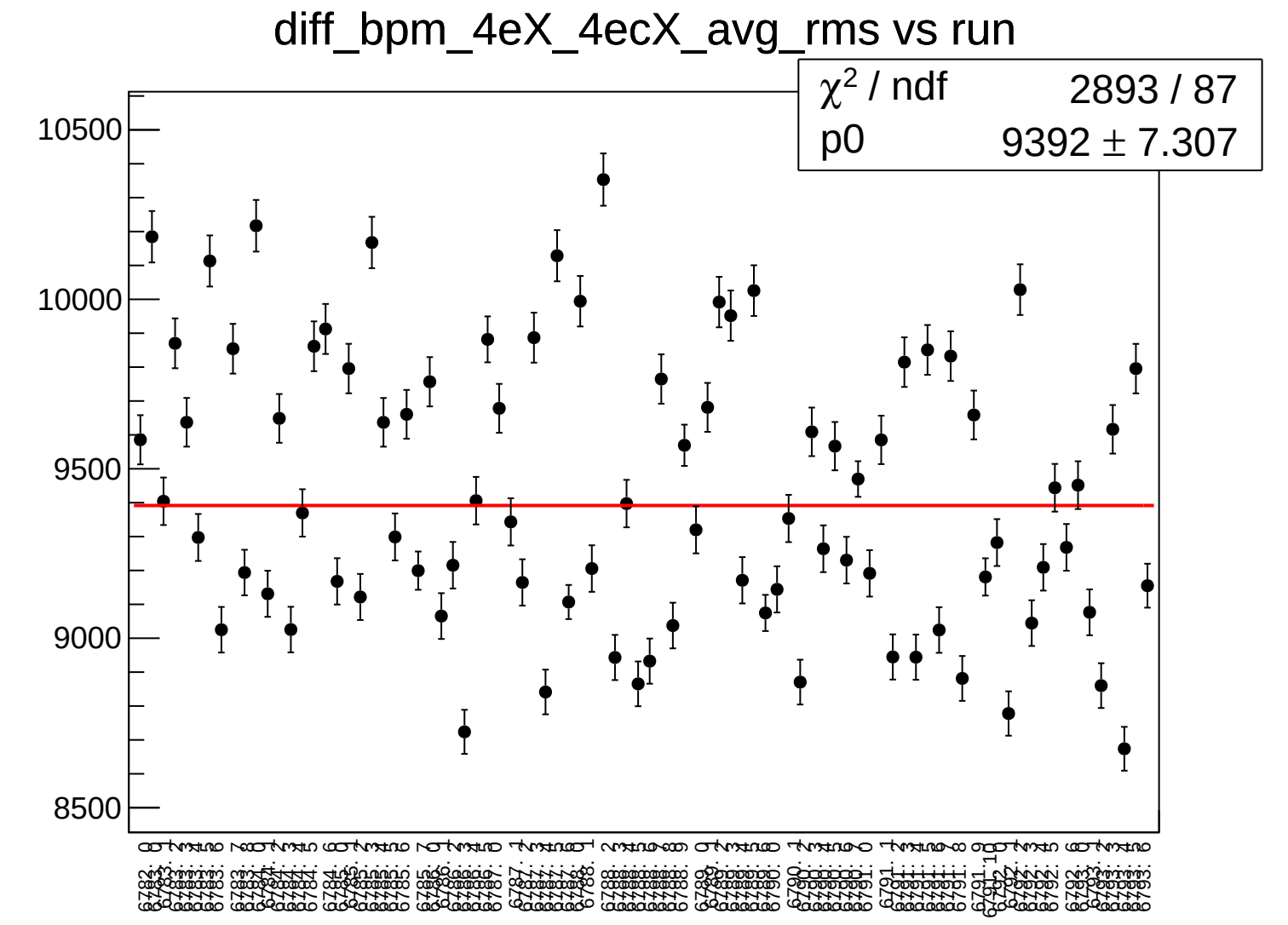

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 74.12 / 87
p0 −0.553 ± 0.4123
pull
Entries 88
Mean 1076
Std Dev 0

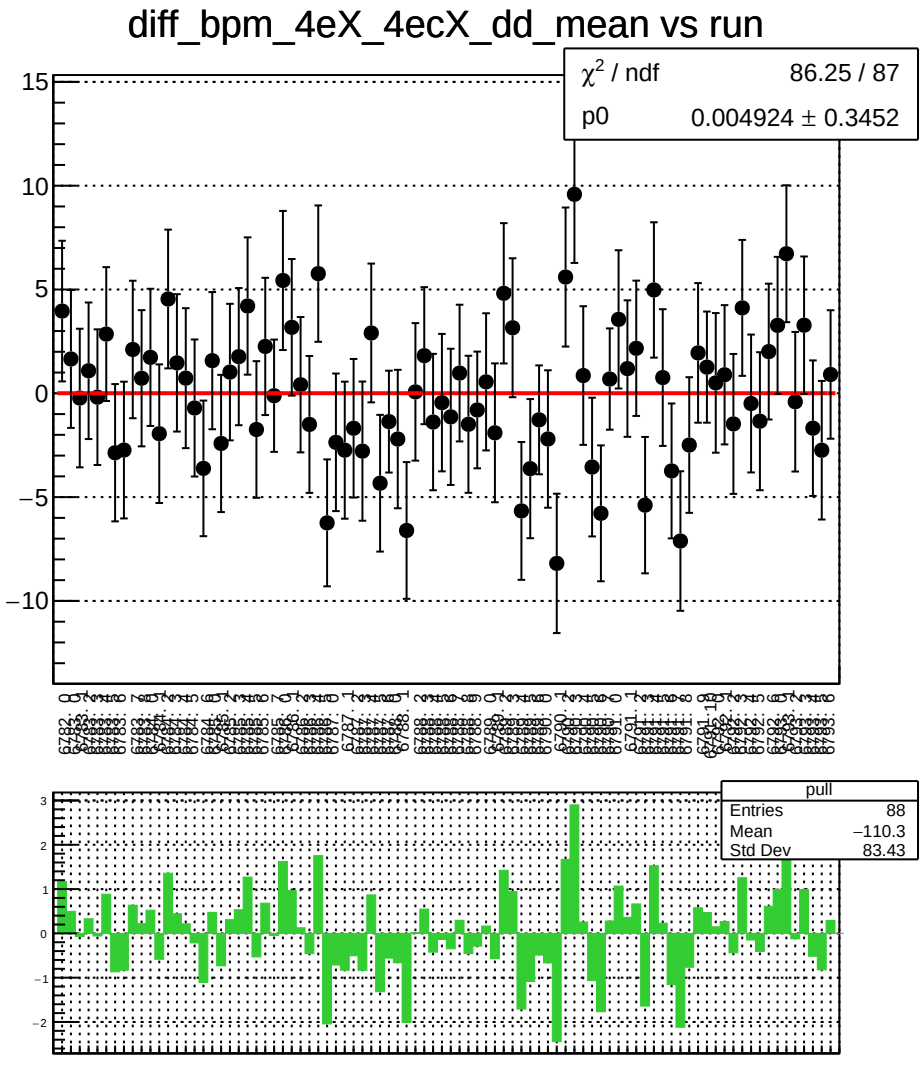

pull1D
Entries 88
Mean −0.001131
Std Dev 0.9178

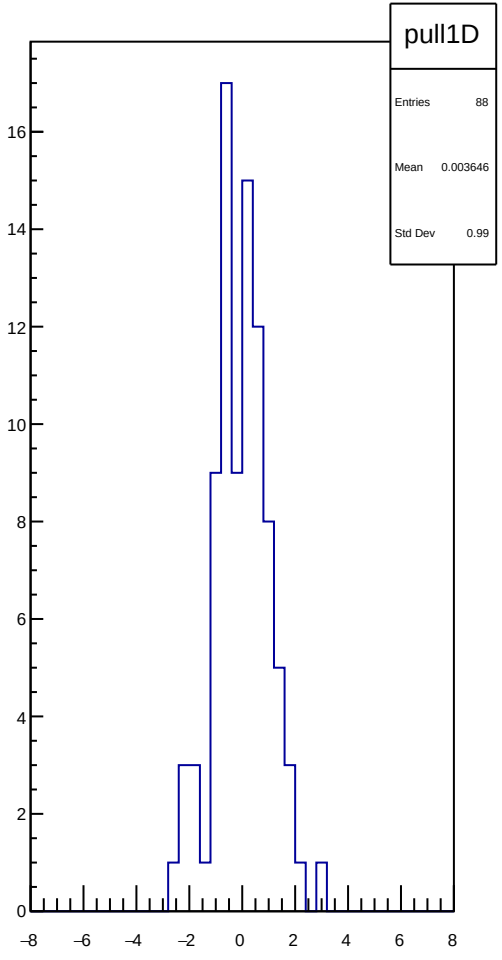

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 548.7 / 87
p0 375 ± 0.2916
395
390
385
380
375
370
365
360
355

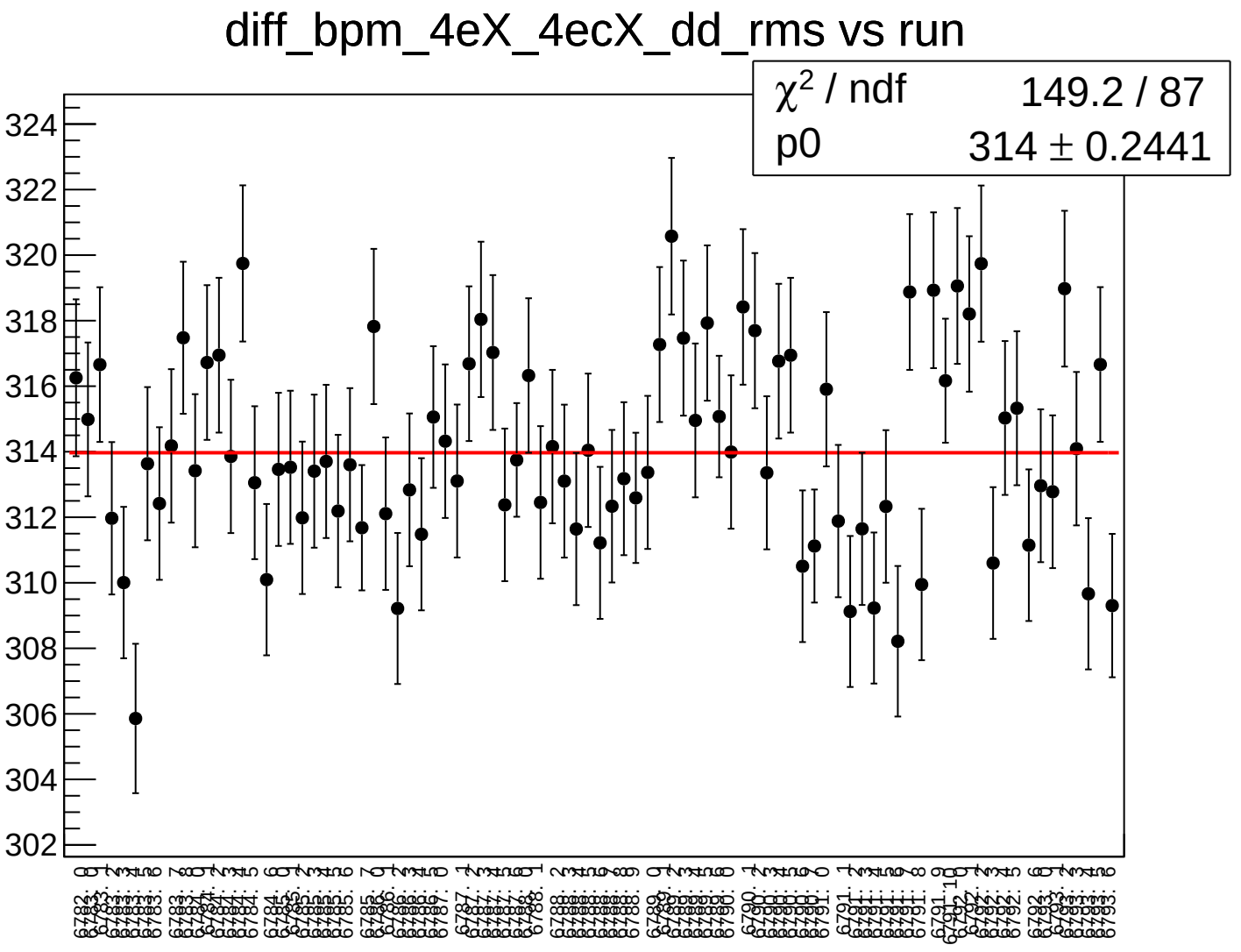

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 77.76 / 87
p0 −33.14 ± 10.33
pull
Entries 88
Mean −273.9
Std Dev 0

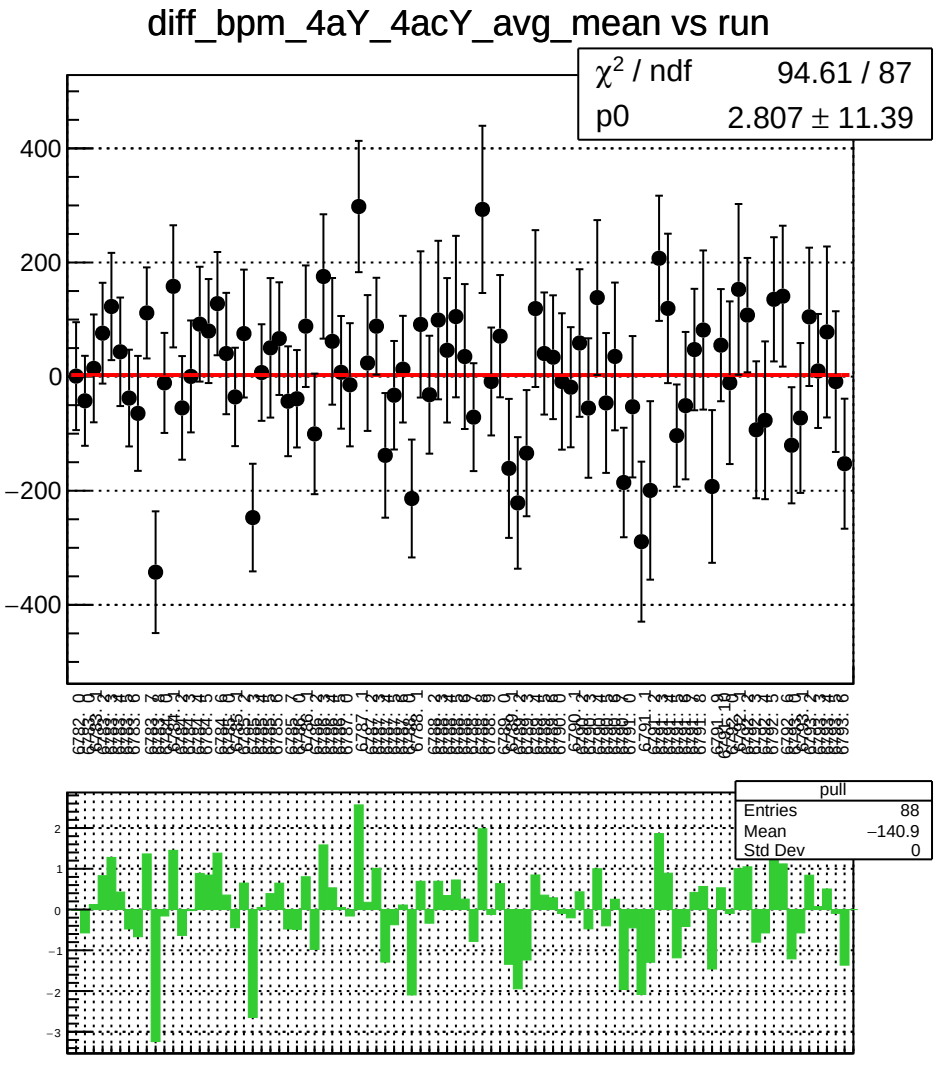

pull1D
Entries 88
Mean −0.01236
Std Dev 0.9399

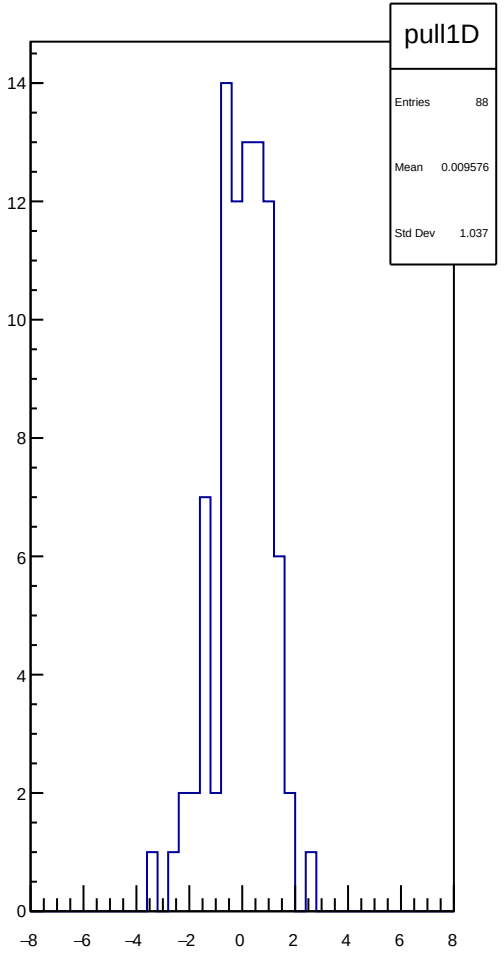

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2893 / 87
p0 9392 ± 7.307
10500
10000
9500
9000
8500

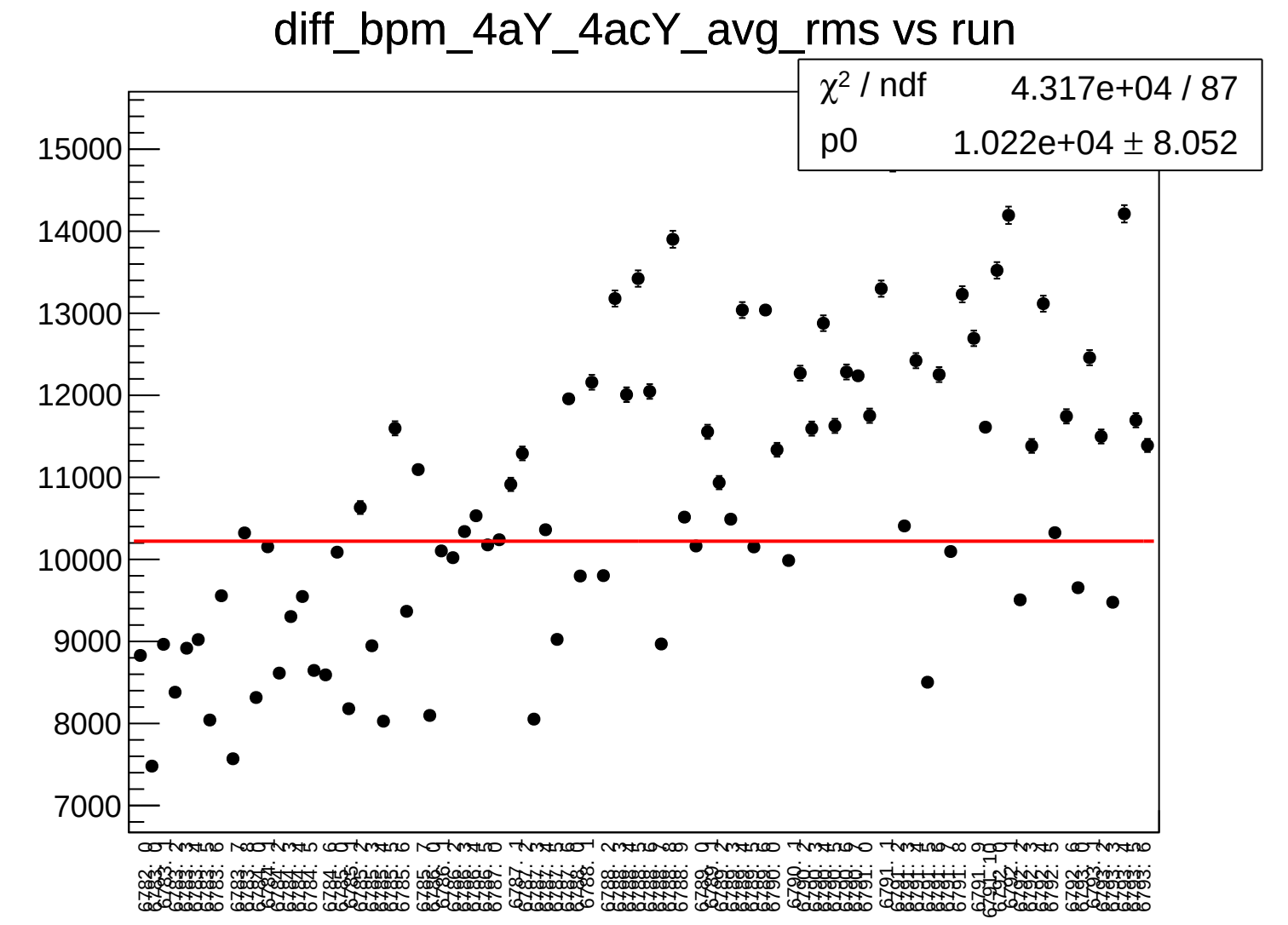

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 86.25 / 87
p0 0.004924 ± 0.3452
pull
Entries 88
Mean −110.3
Std Dev 83.43

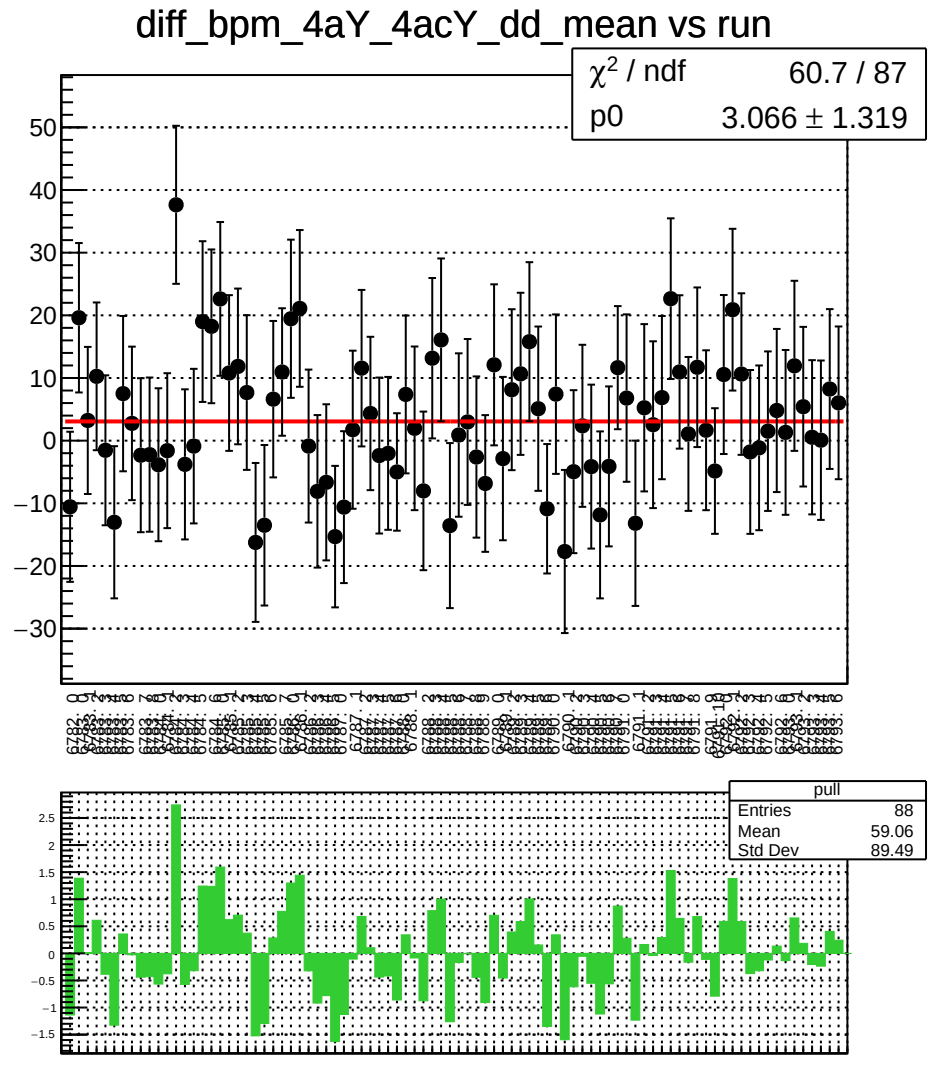

pull1D
Entries 88
Mean 0.003646
Std Dev 0.99

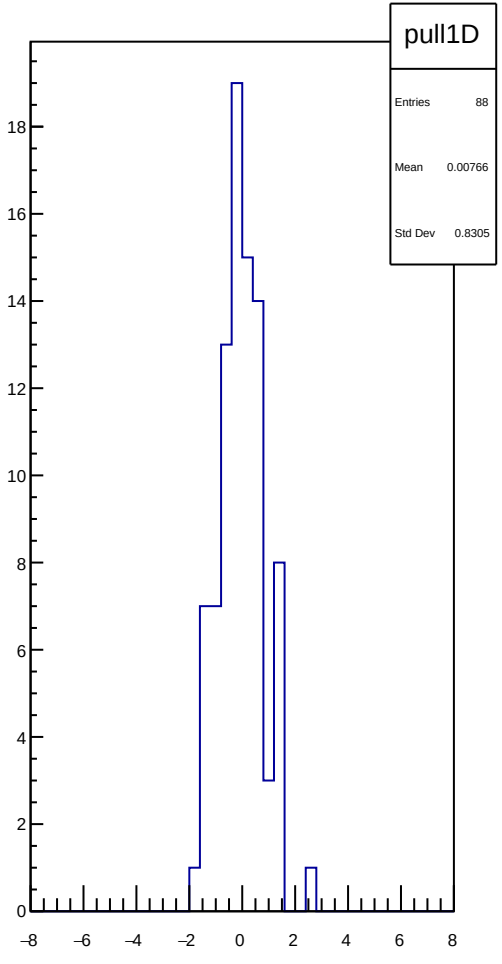

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 149.2 / 87
p0 314 ± 0.2441
324
322
320
318
316
314
312
310
308
306
304
302

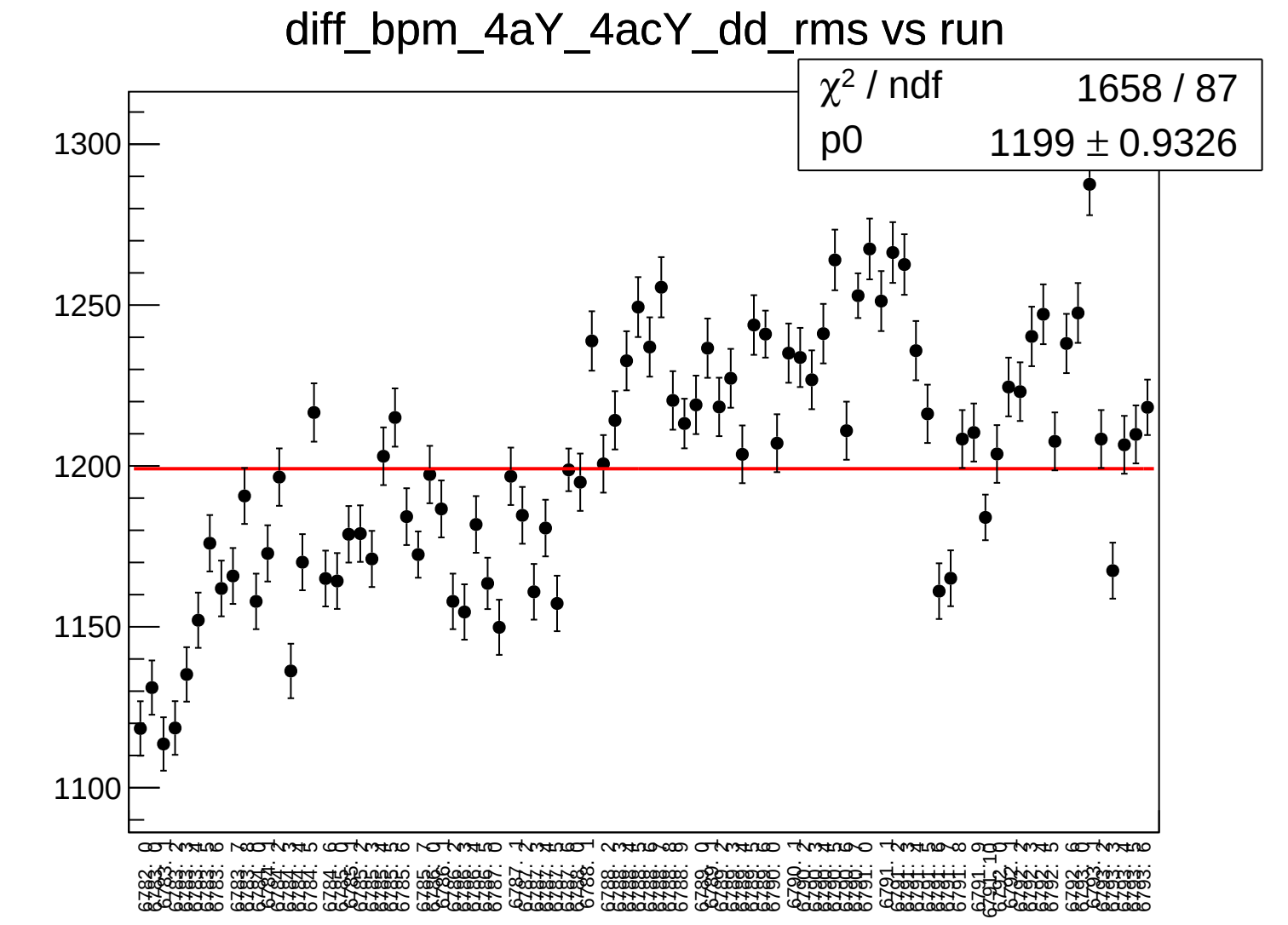

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 94.61 / 87
p0 2.807 ± 11.39
400
200
0
−200
−400
pull
Entries 88
Mean −140.9
Std Dev 0
2
1
0
−1
−2
−3

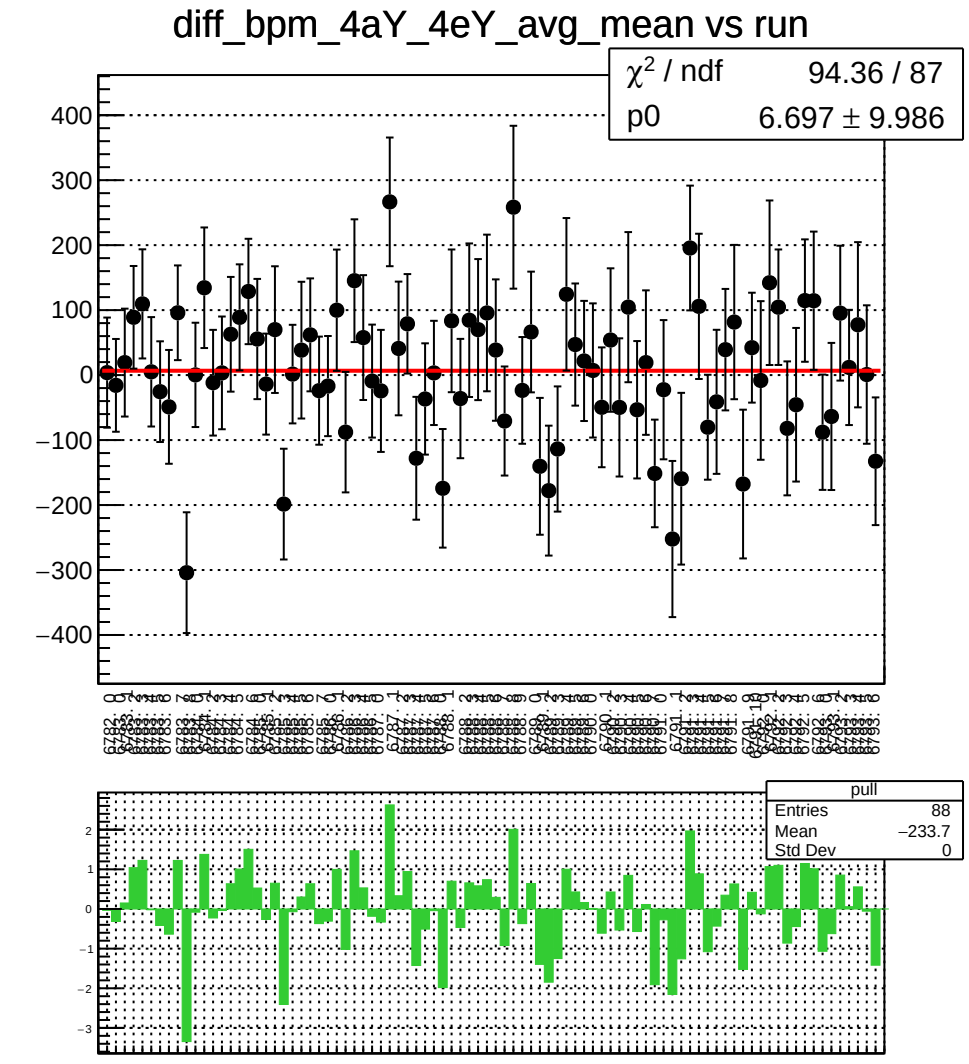

pull1D
Entries 88
Mean 0.009576
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

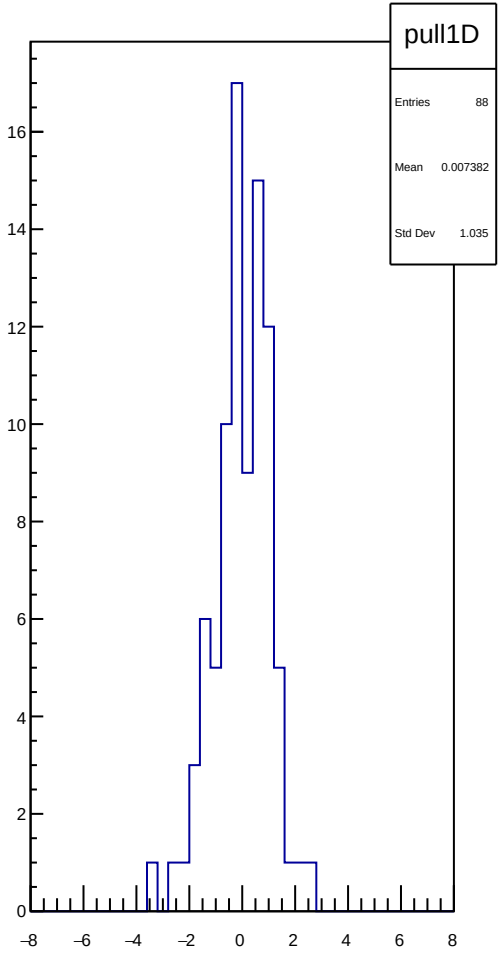

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 4.317e+04 / 87
p0 1.022e+04 ± 8.052
15000
14000
13000
12000
11000
10000
9000
8000
7000

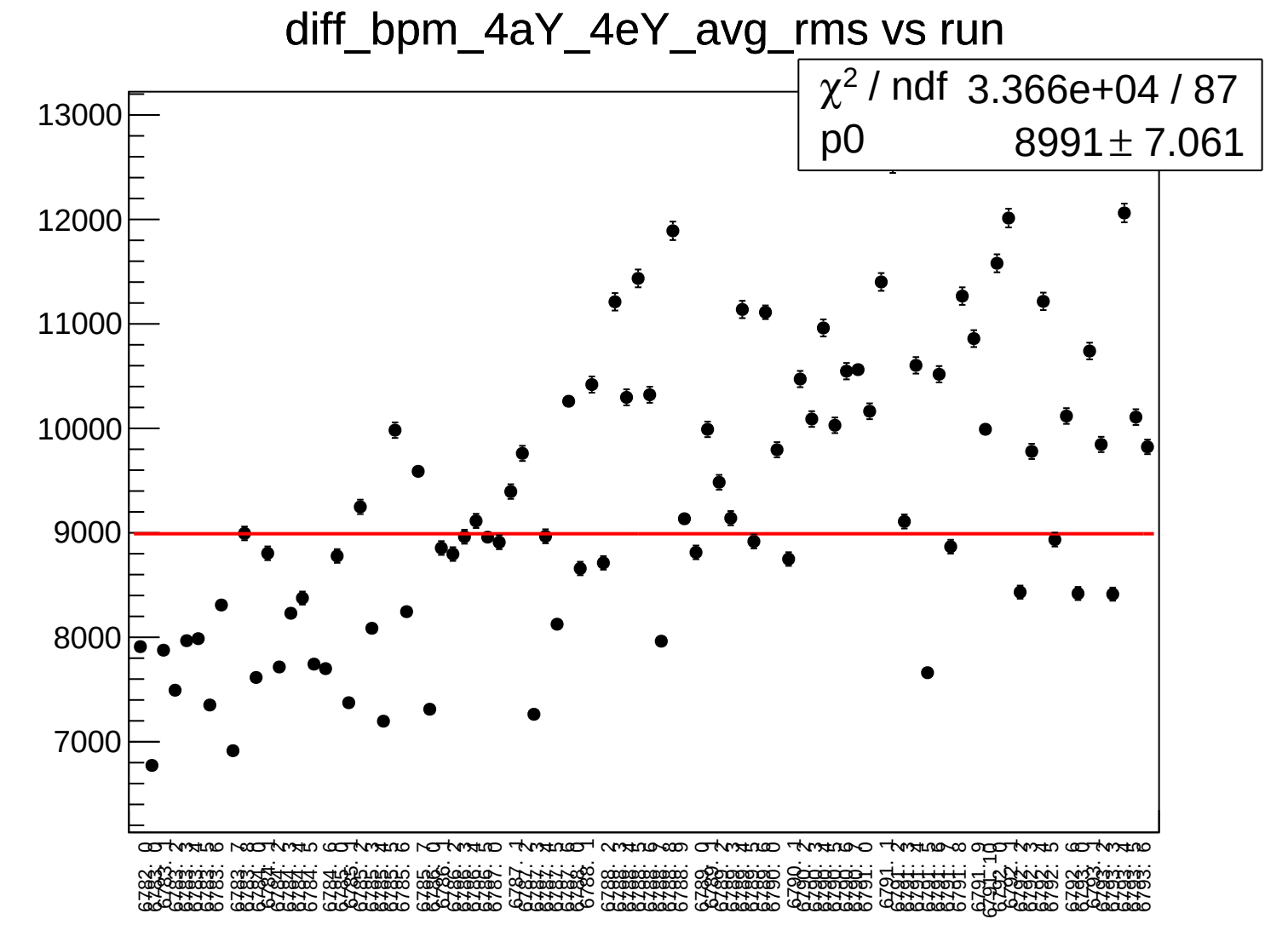

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 60.7 / 87
p0 3.066 ± 1.319
pull
Entries 88
Mean 59.06
Std Dev 89.49

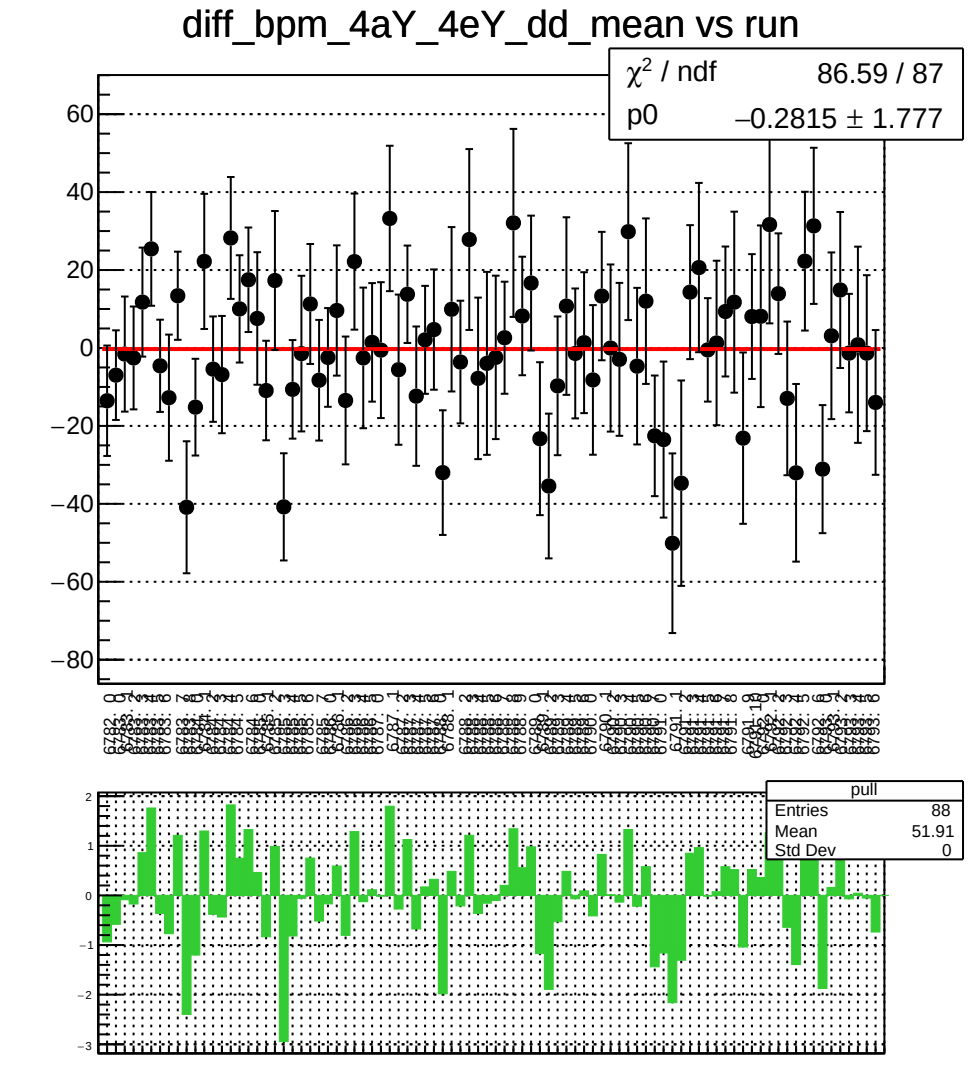

pull1D
Entries 88
Mean 0.00766
Std Dev 0.8305

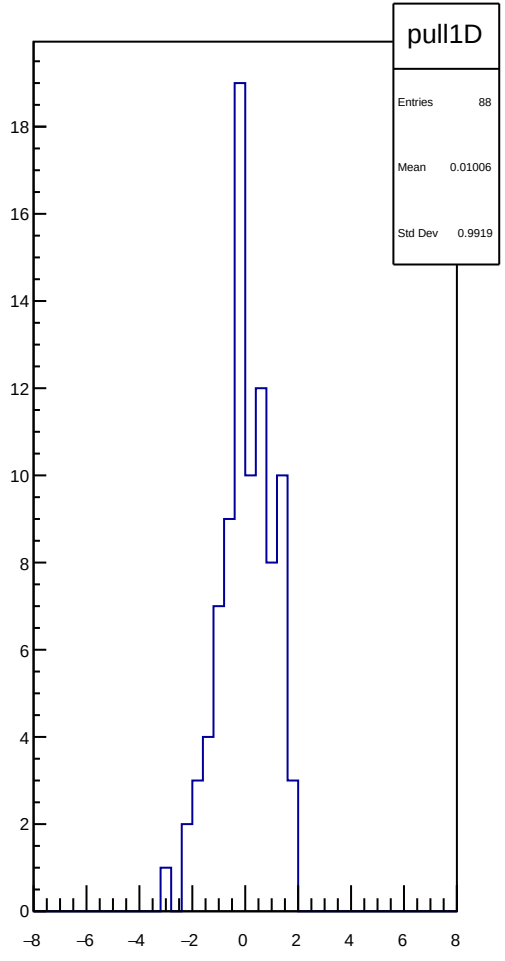

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 1658 / 87
p0 1199 ± 0.9326
1300
1250
1200
1150
1100

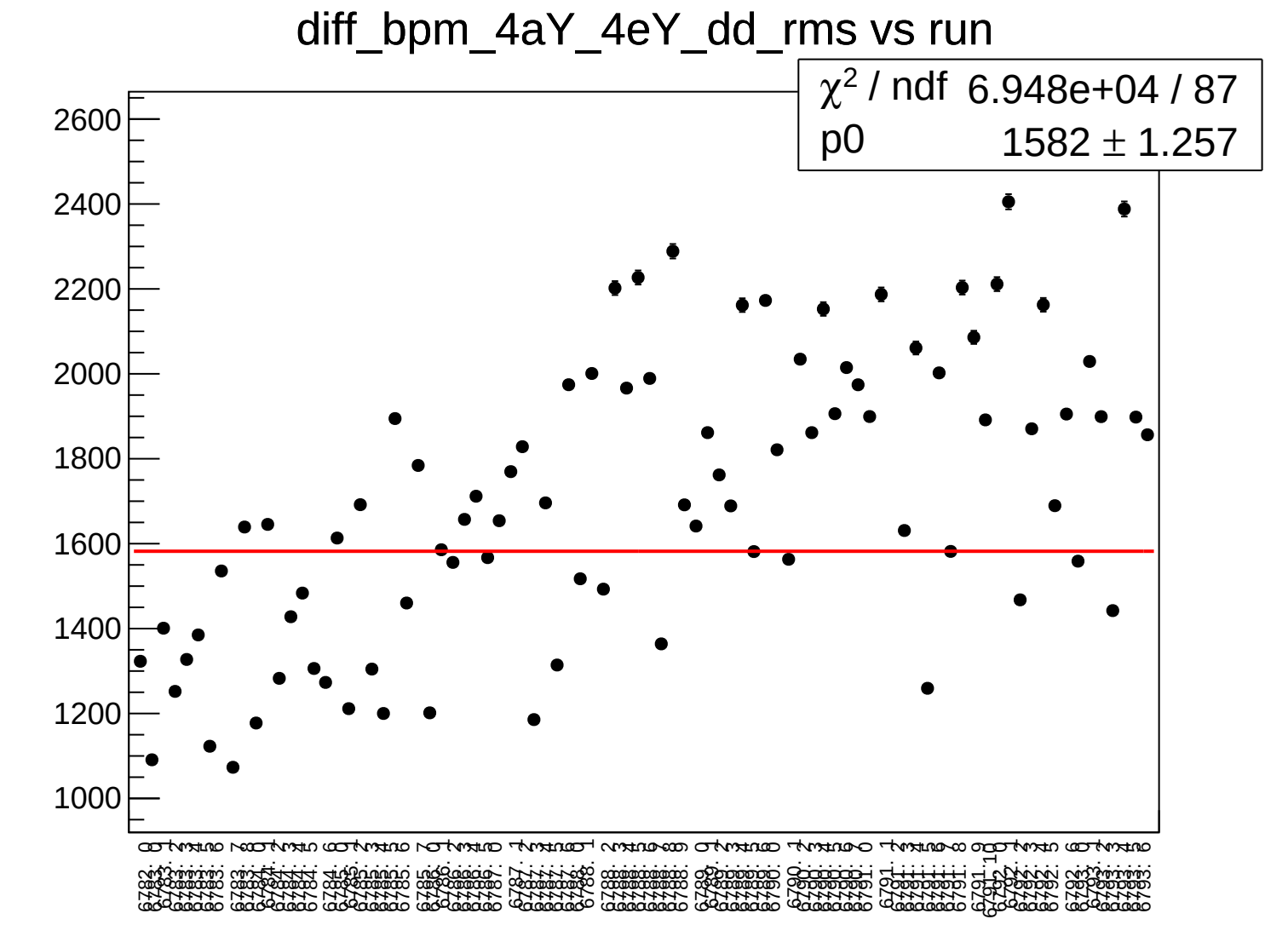

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 94.36 / 87
p0 6.697 ± 9.986
pull
Entries 88
Mean −233.7
Std Dev 0

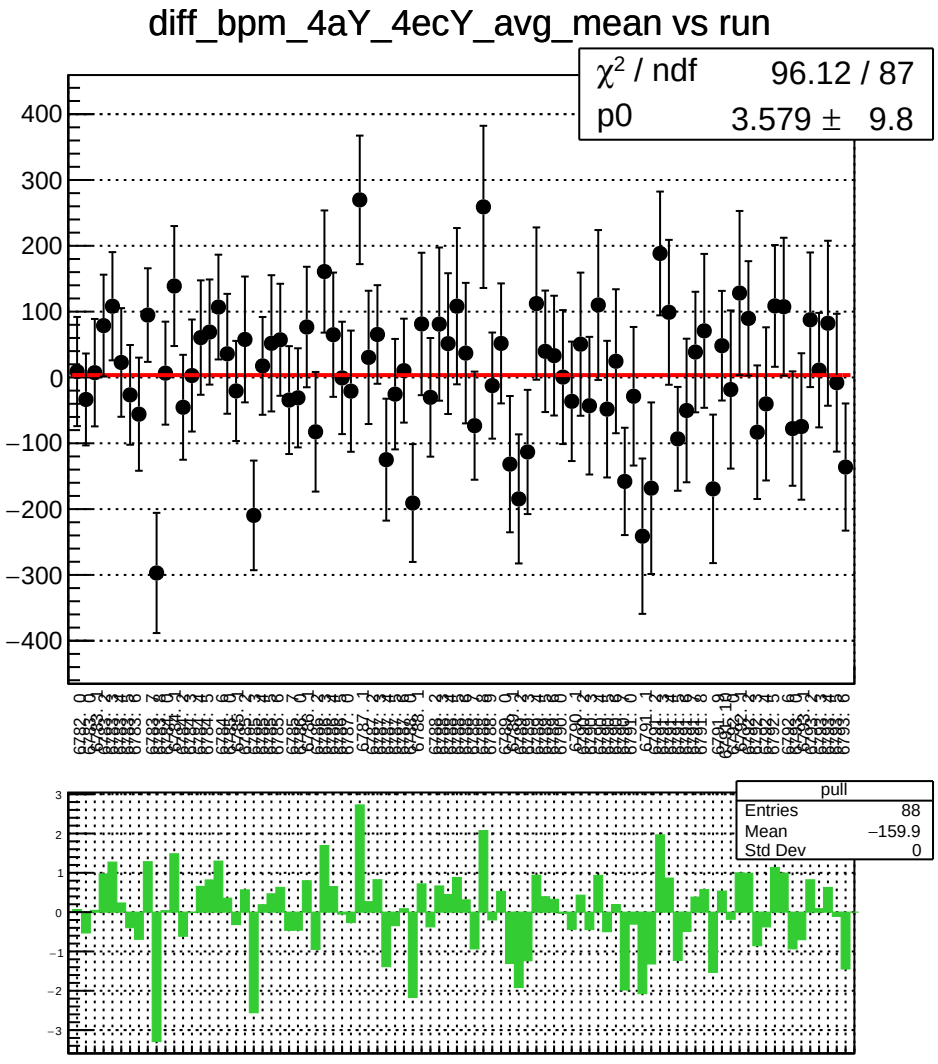

pull1D
Entries 88
Mean 0.007382
Std Dev 1.035

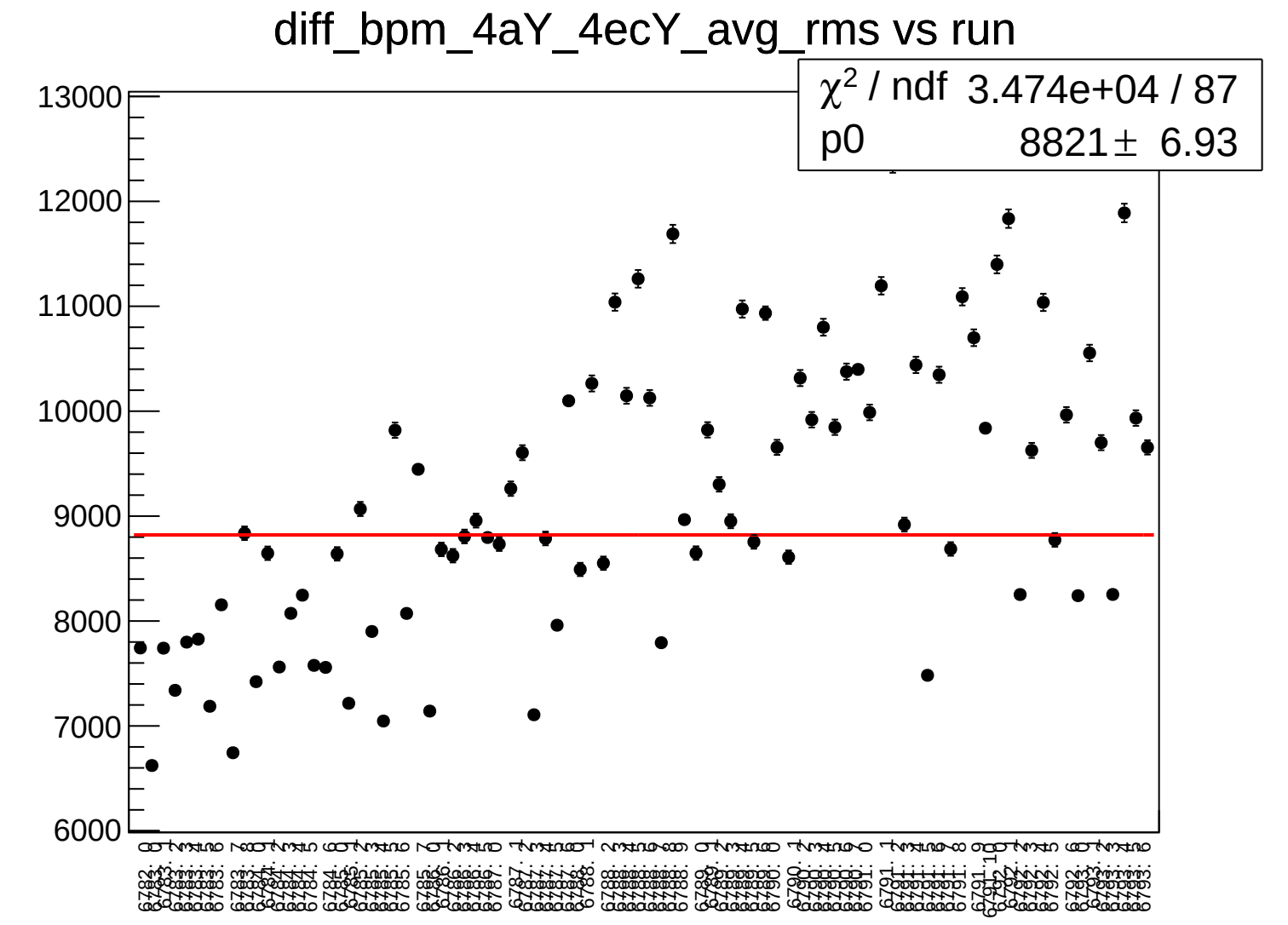

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 3.366e+04 / 87
p0 8991 ± 7.061
13000
12000
11000
10000
9000
8000
7000

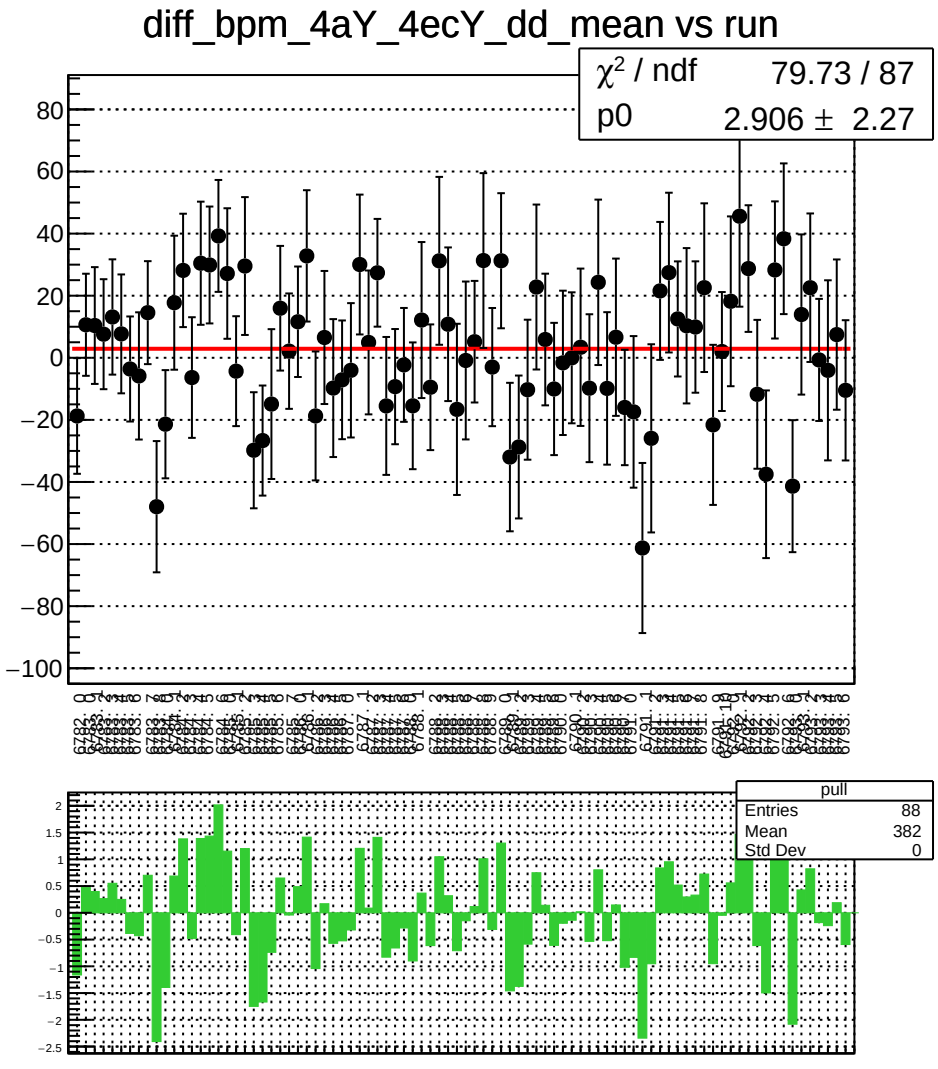

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 86.59 / 87
p0 −0.2815 ± 1.777
pull
Entries 88
Mean 51.91
Std Dev 0

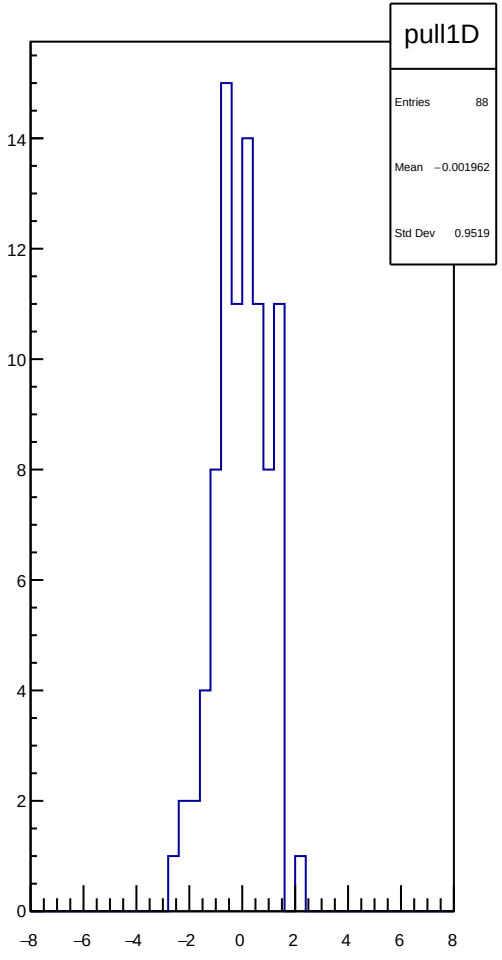

pull1D
Entries 88
Mean 0.01006
Std Dev 0.9919

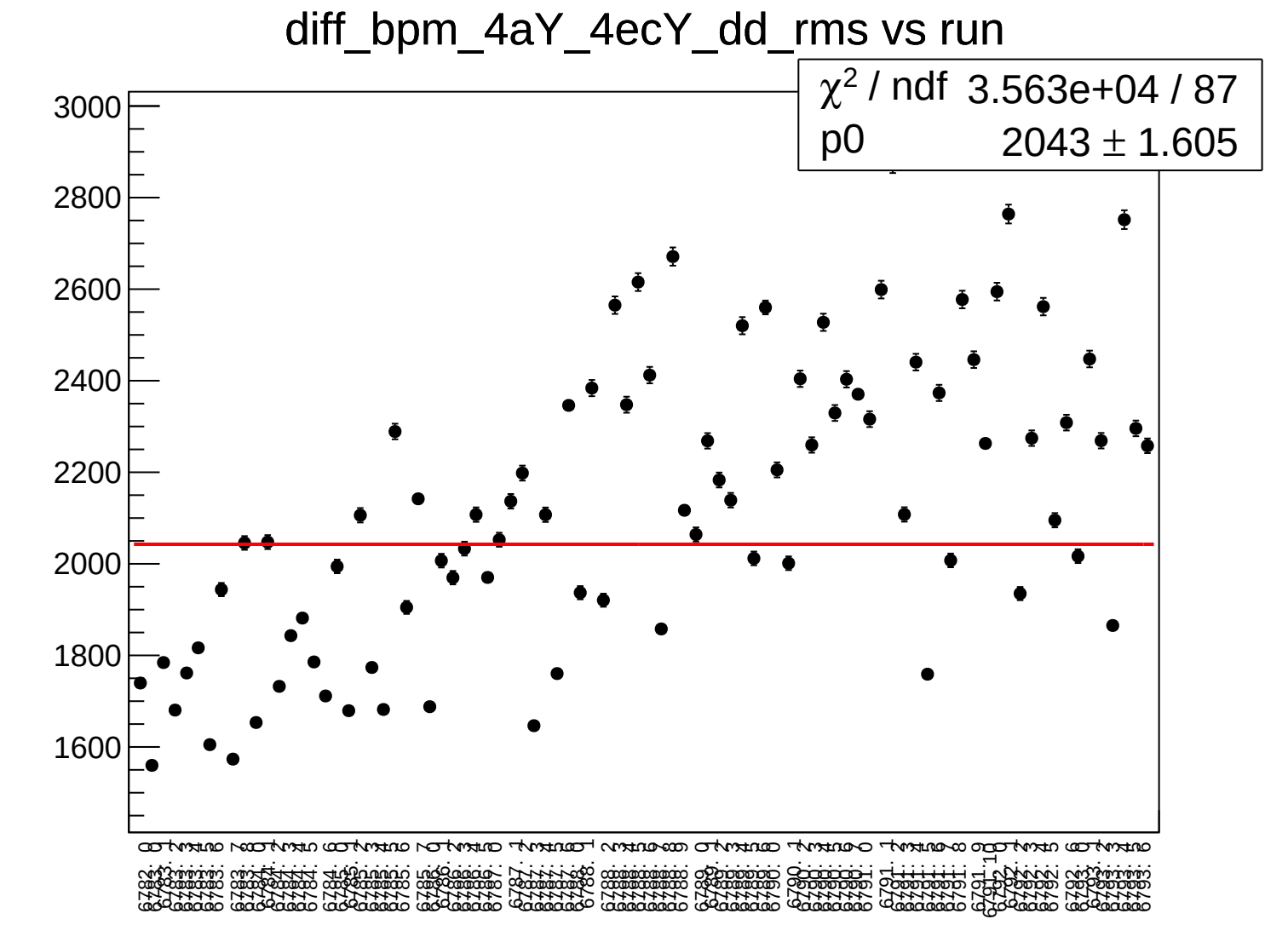

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 6.948e+04 / 87
p0 1582 ± 1.257
2600
2400
2200
2000
1800
1600
1400
1200
1000

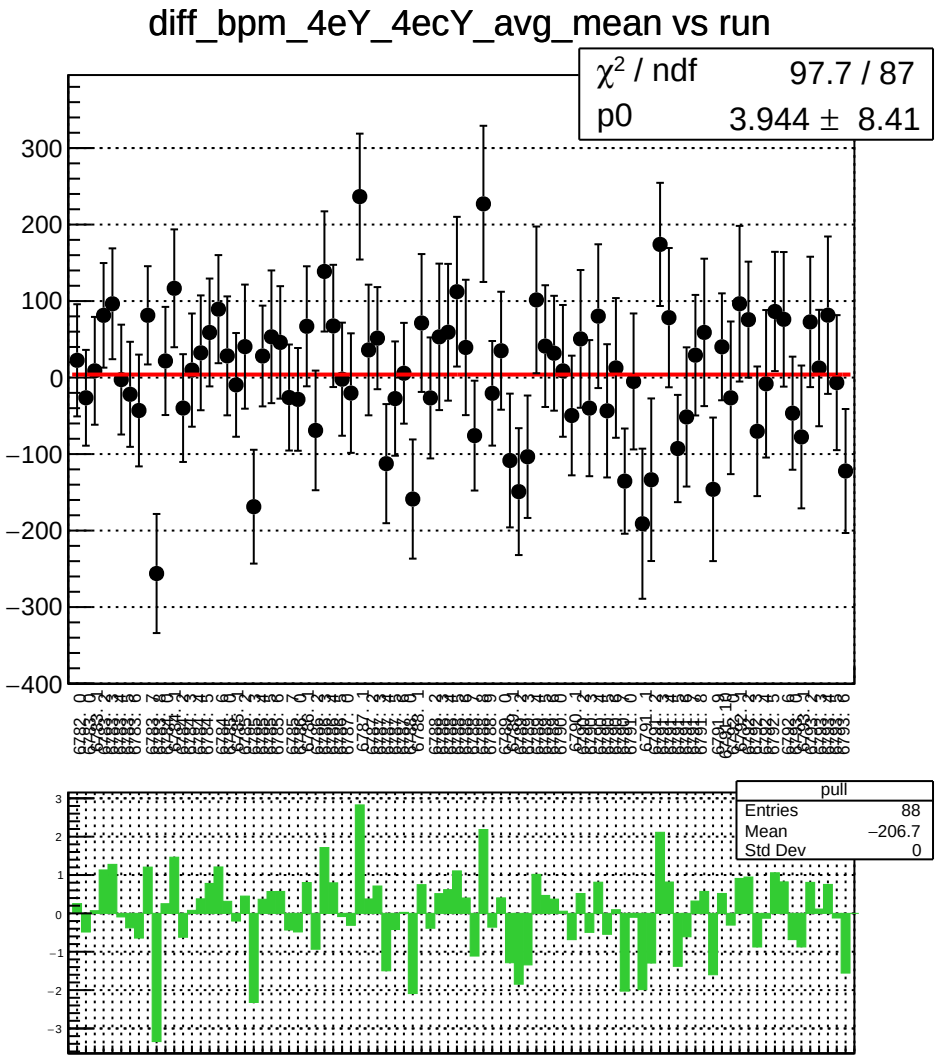

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 96.12 / 87
p0 3.579 ± 9.8
pull
Entries 88
Mean −159.9
Std Dev 0
pull1D
Entries 88
Mean 0.00946
Std Dev 1.045

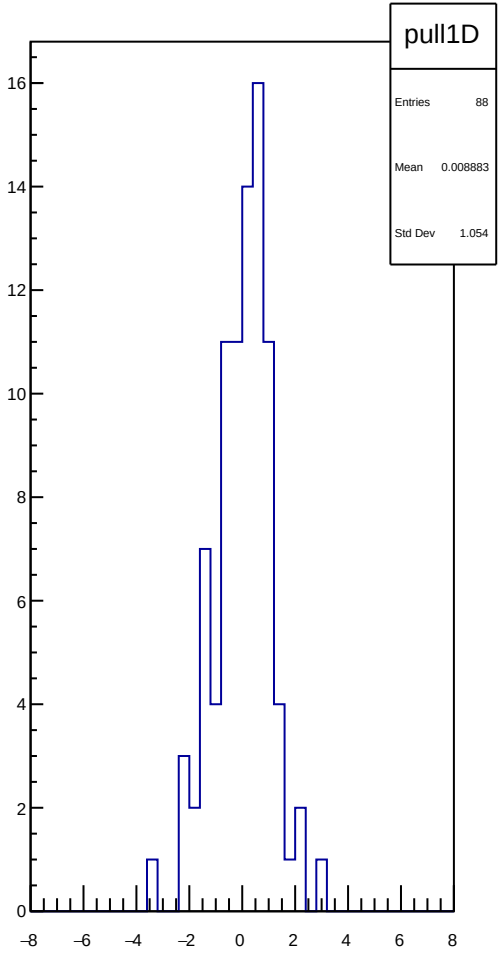

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3.474e+04 / 87
p0 8821 ± 6.93
13000
12000
11000
10000
9000
8000
7000
6000

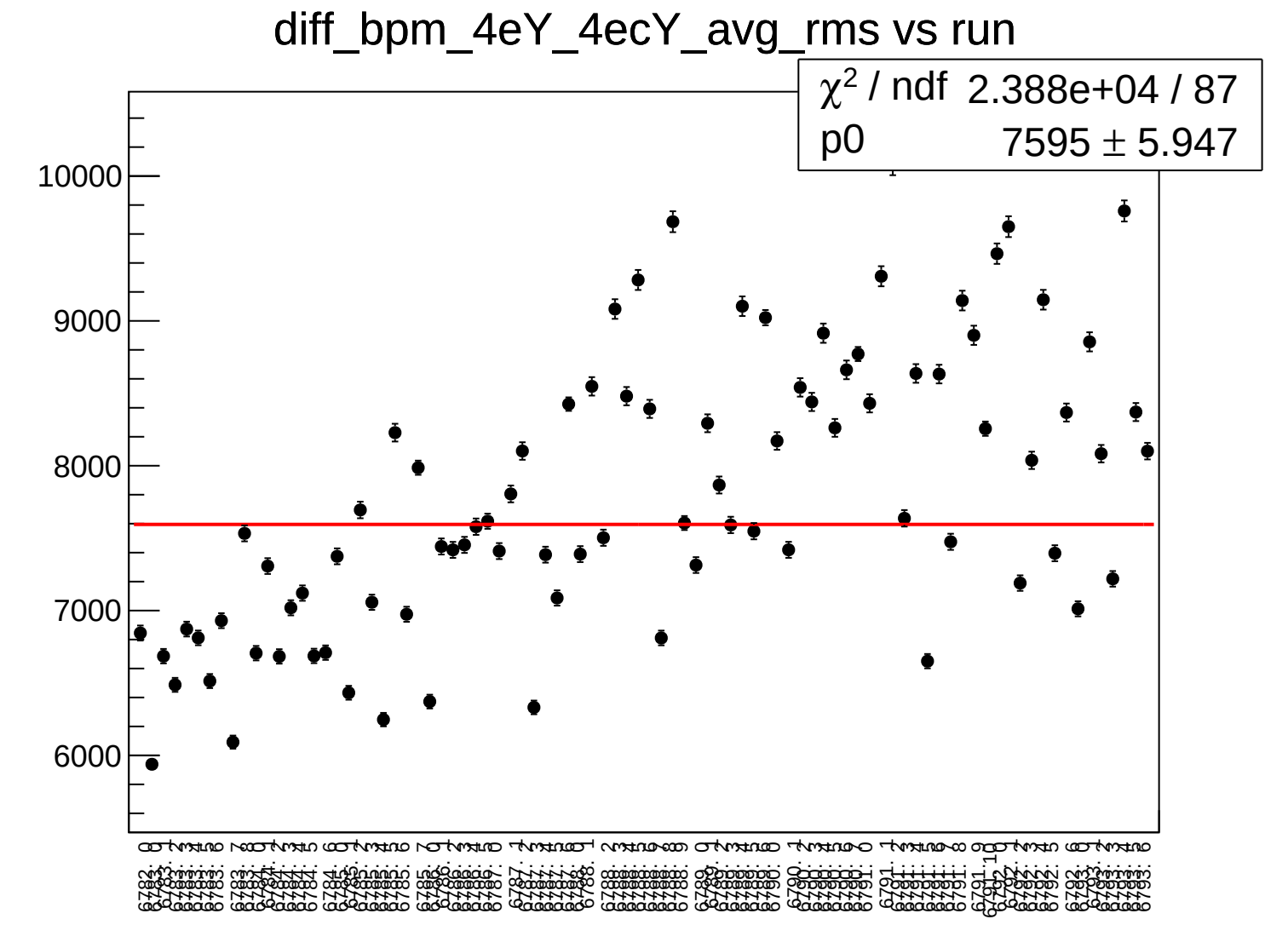

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 79.73 / 87
p0 2.906 ± 2.27
pull
Entries 88
Mean 382
Std Dev 0

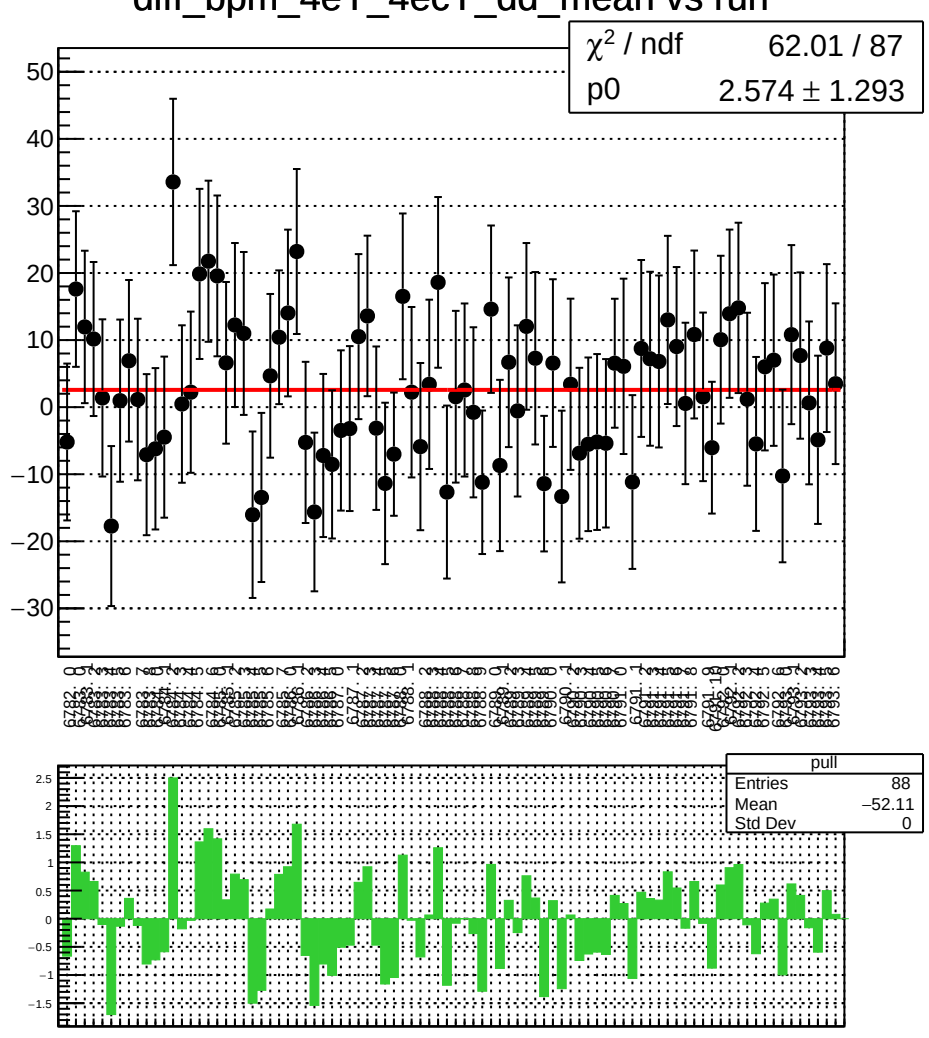

pull1D
Entries 88
Mean −0.001962
Std Dev 0.9519

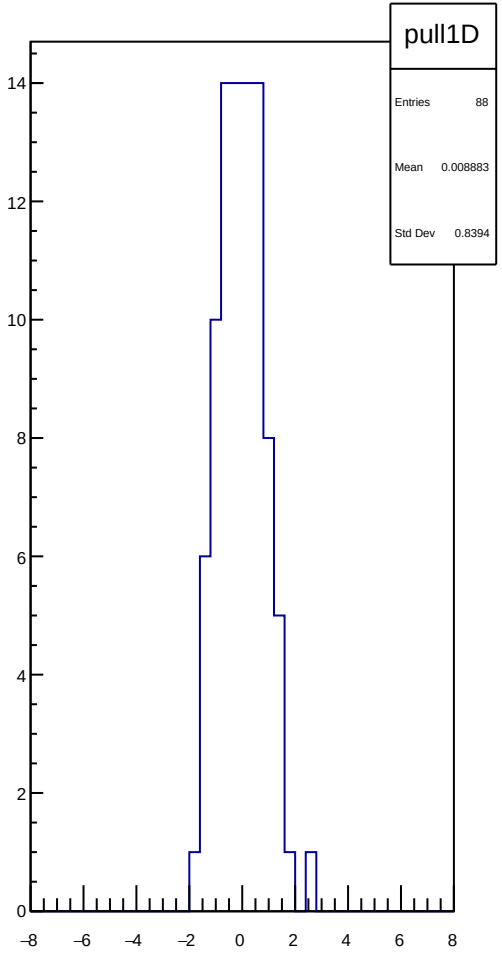

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 3.563e+04 / 87
p0 2043 ± 1.605
3000
2800
2600
2400
2200
2000
1800
1600

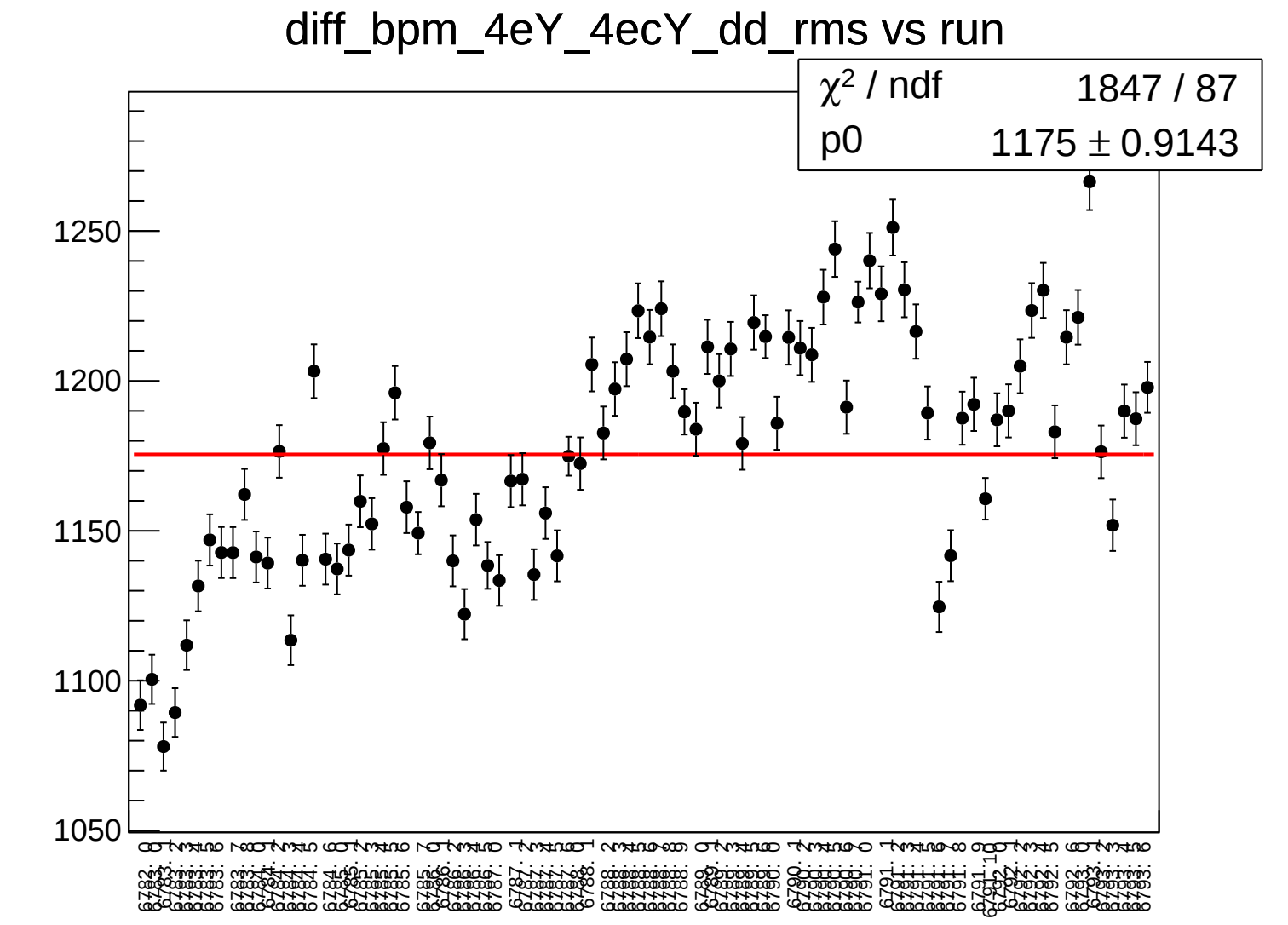

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 97.7 / 87
p0 3.944 ± 8.41
pull
Entries 88
Mean −206.7
Std Dev 0

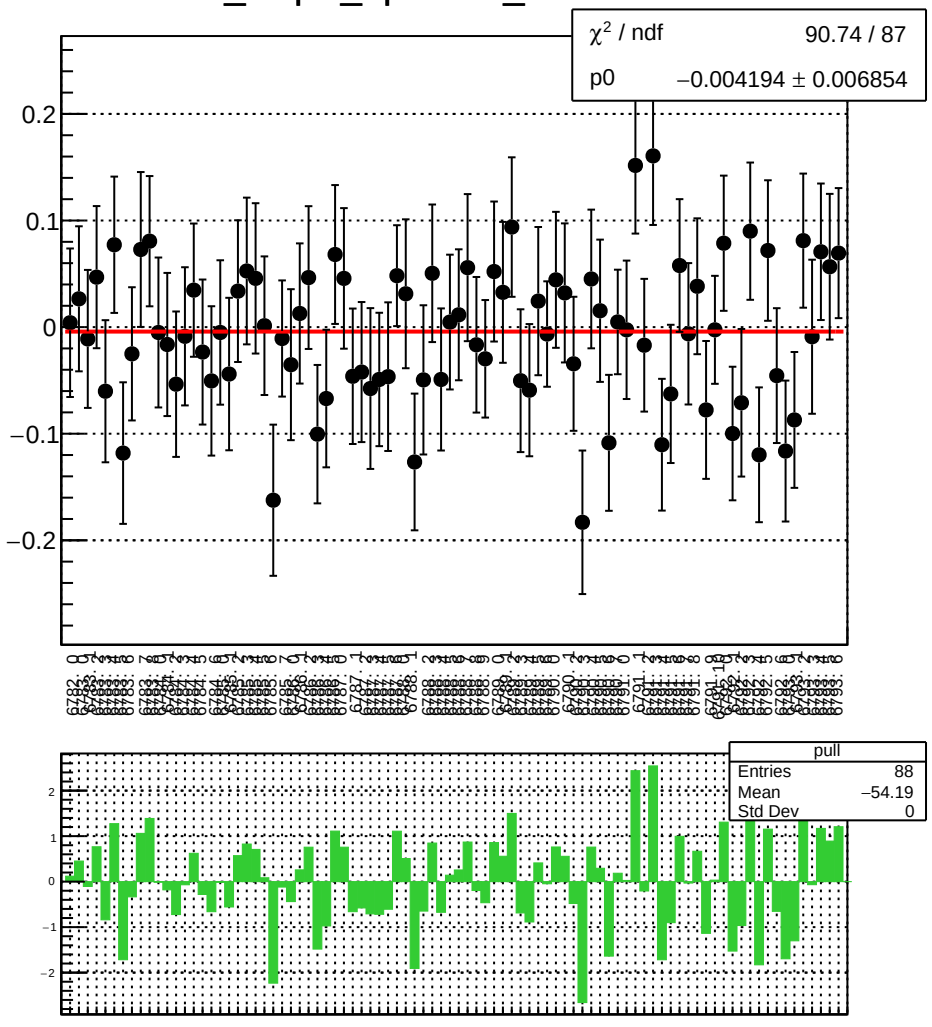

pull1D
Entries 88
Mean 0.008883
Std Dev 1.054

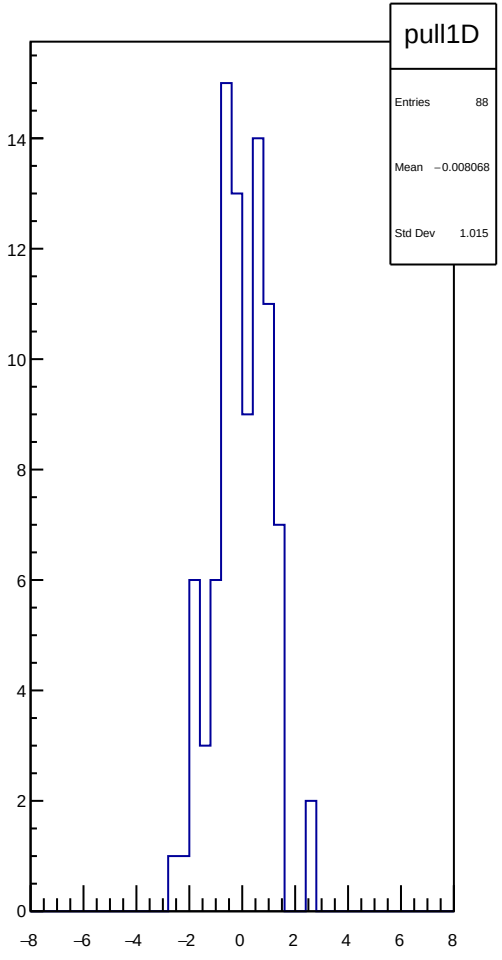

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 2.388e+04 / 87
p0 7595 ± 5.947
10000
9000
8000
7000
6000

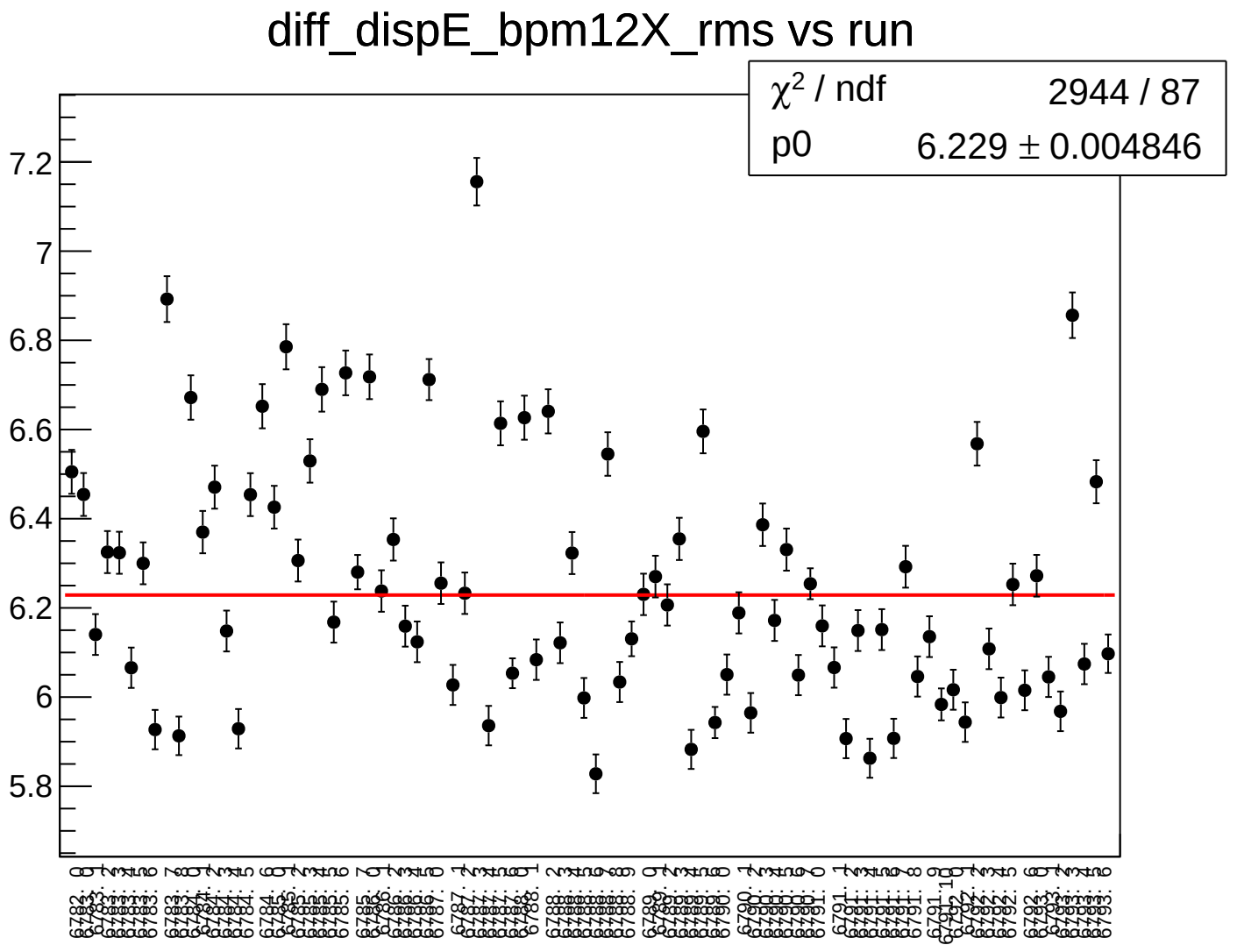

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 62.01 / 87
p0 2.574 ± 1.293
pull
Entries 88
Mean −52.11
Std Dev 0

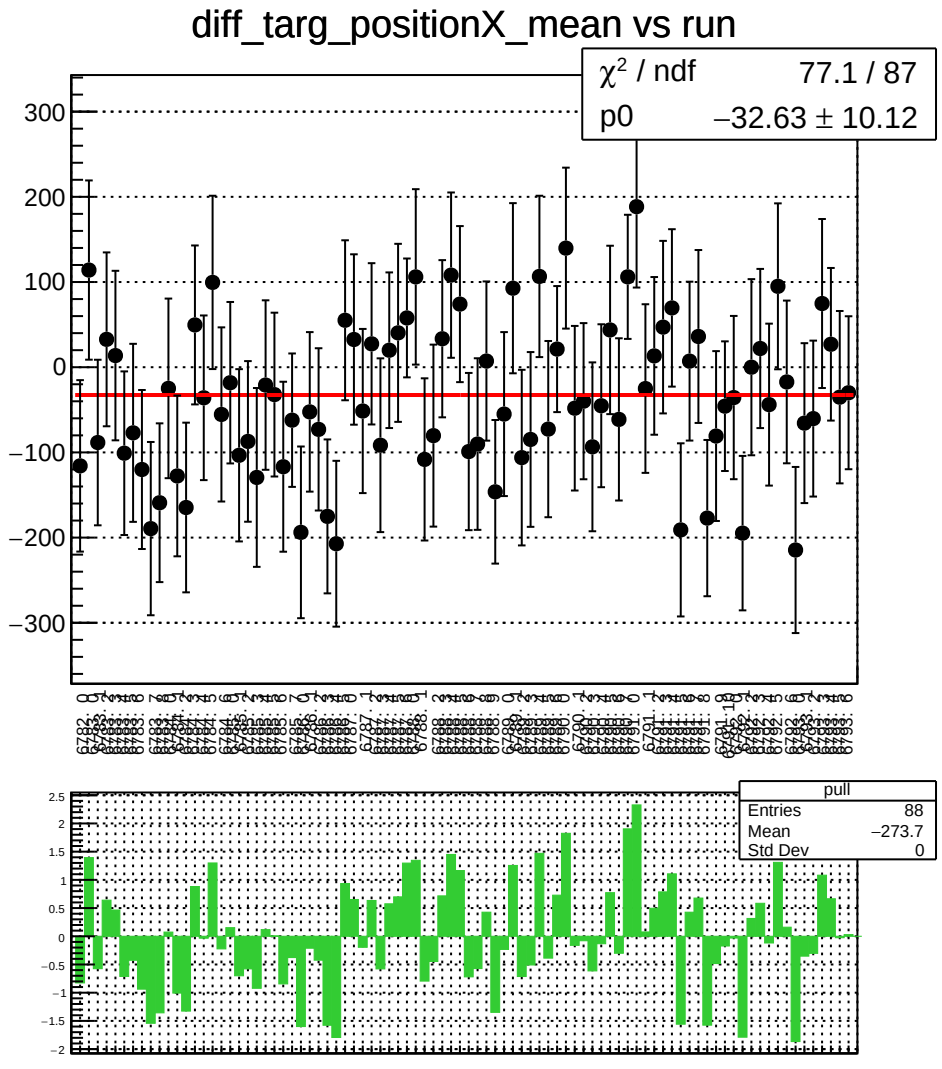

pull1D
Entries 88
Mean 0.008883
Std Dev 0.8394

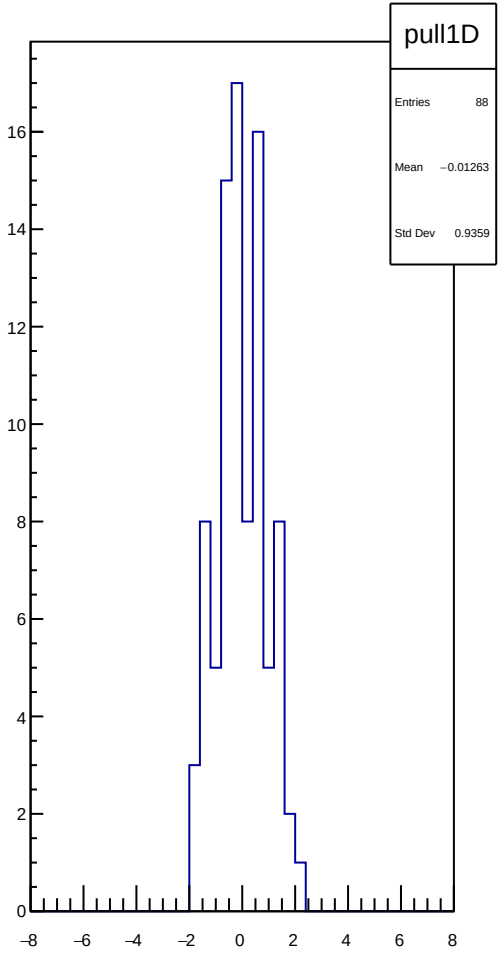

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1847 / 87
p0 1175 ± 0.9143
1250
1200
1150
1100
1050

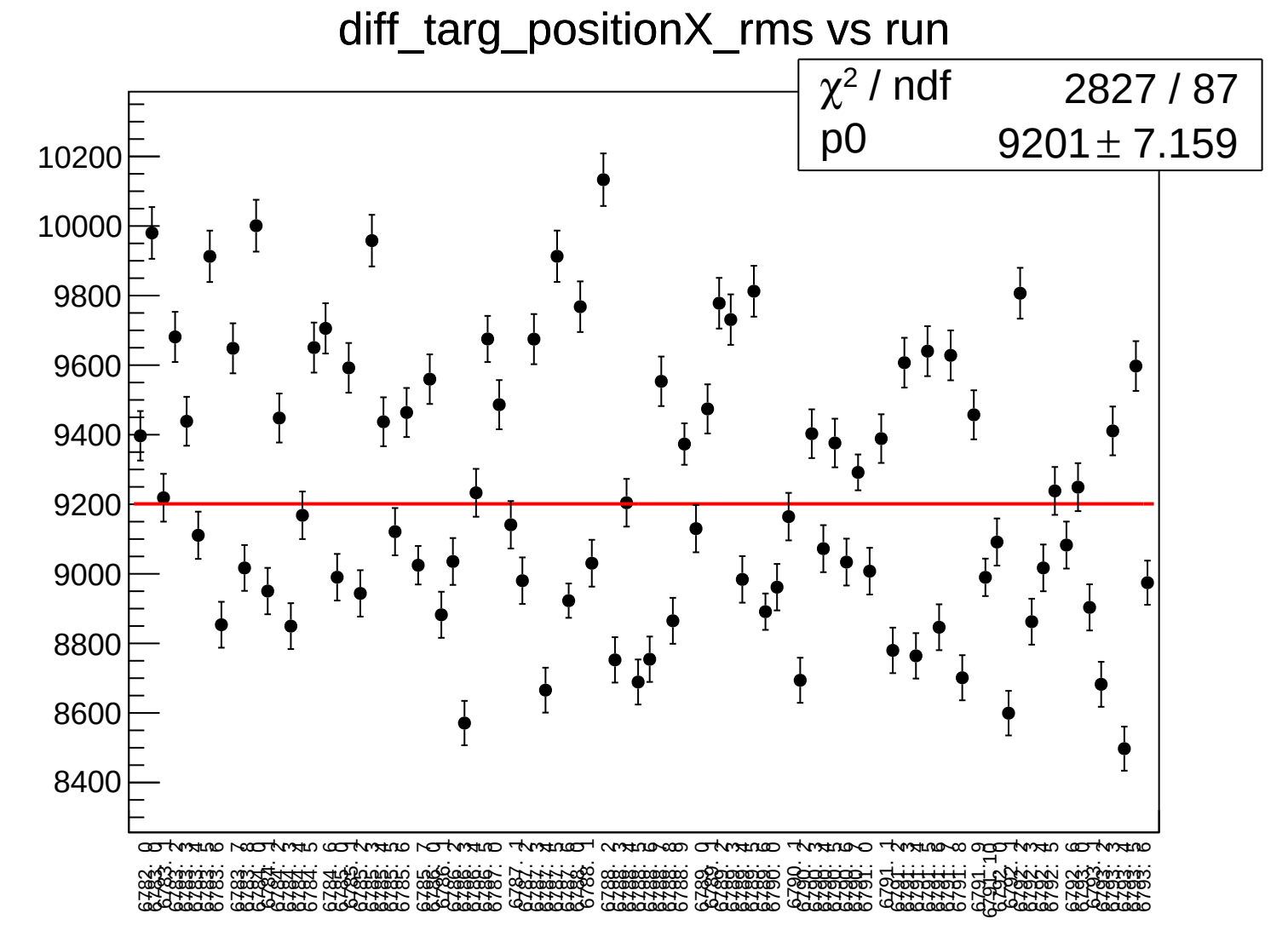

diff_dispE_bpm12X_mean vs run
χ² / ndf 90.74 / 87
p0 −0.004194 ± 0.006854
pull
Entries 88
Mean −54.19
Std Dev 0

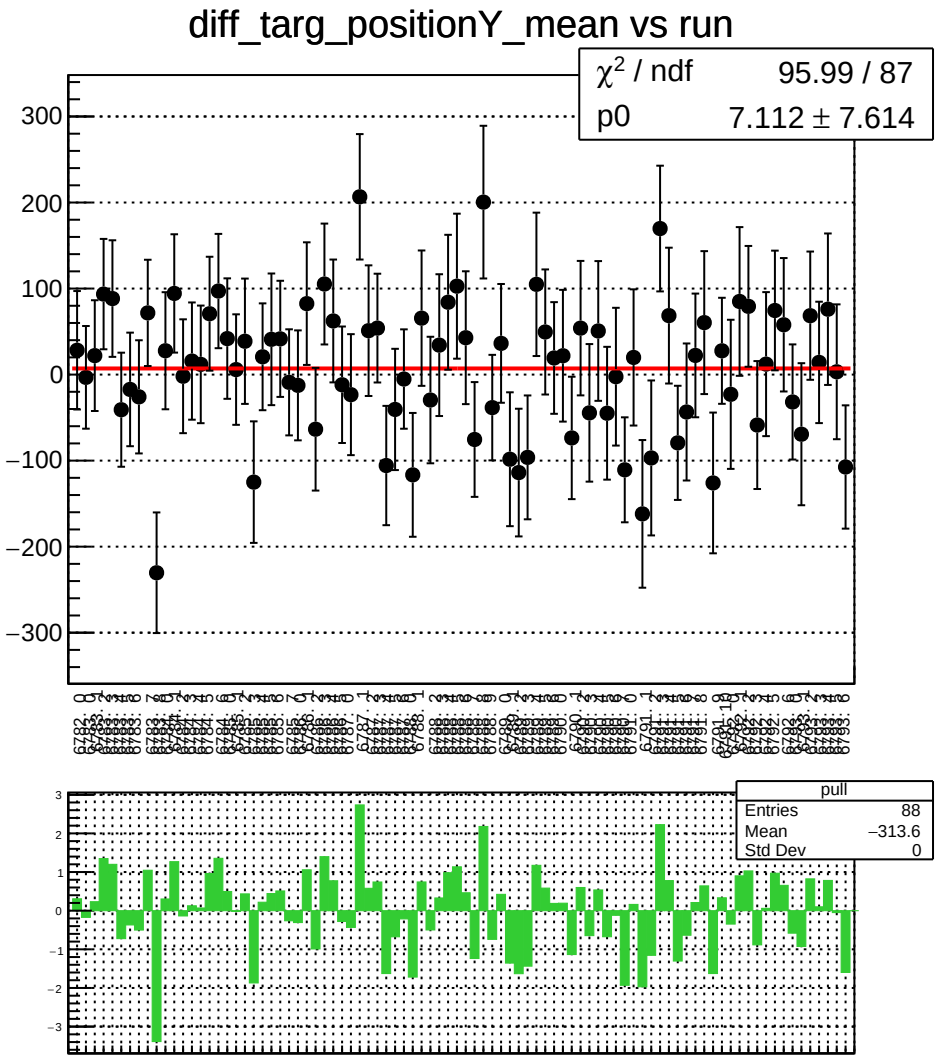

pull1D
Entries 88
Mean −0.008068
Std Dev 1.015

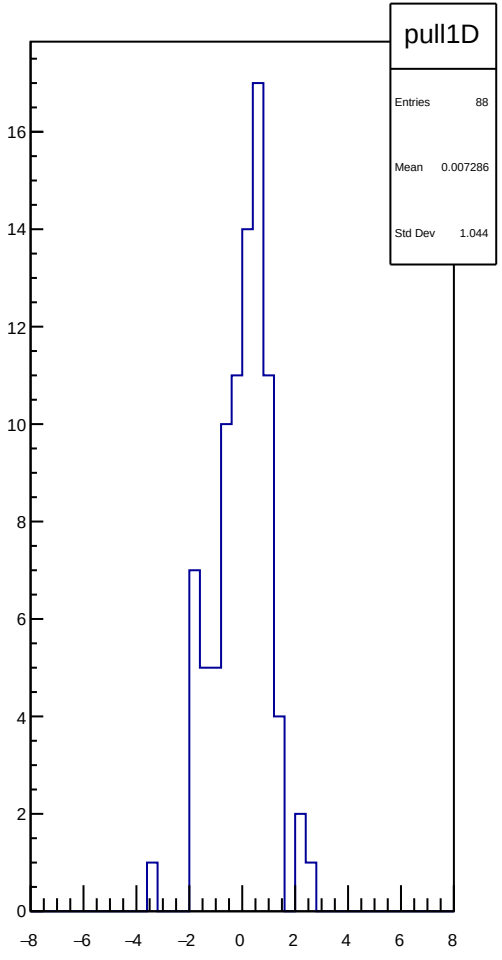

diff_dispE_bpm12X_rms vs run
χ² / ndf 2944 / 87
p0 6.229 ± 0.004846
7.2
7
6.8
6.6
6.4
6.2
6
5.8

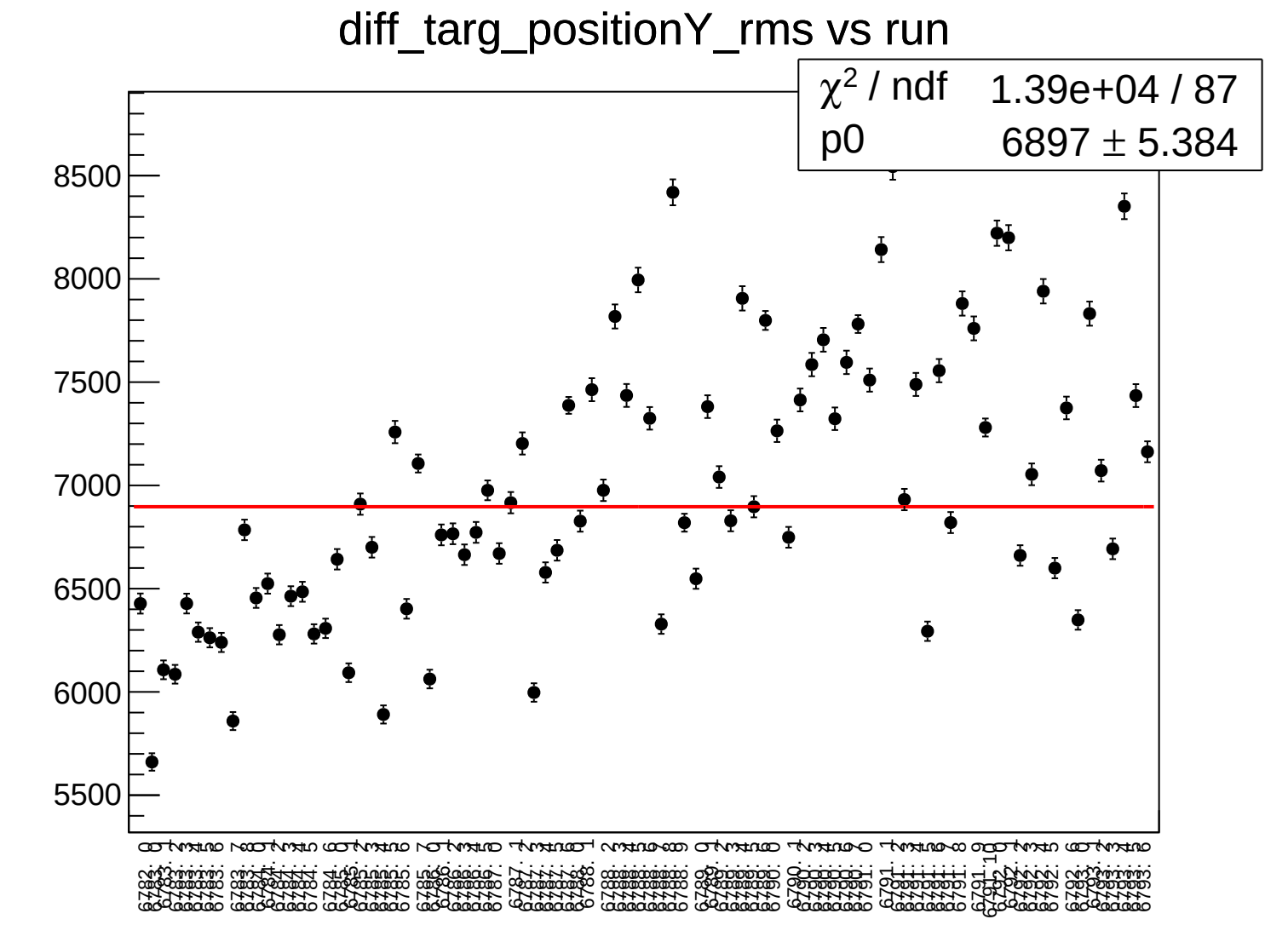

diff_targ_positionX_mean vs run
χ² / ndf 77.1 / 87
p0 −32.63 ± 10.12
pull
Entries 88
Mean −273.7
Std Dev 0

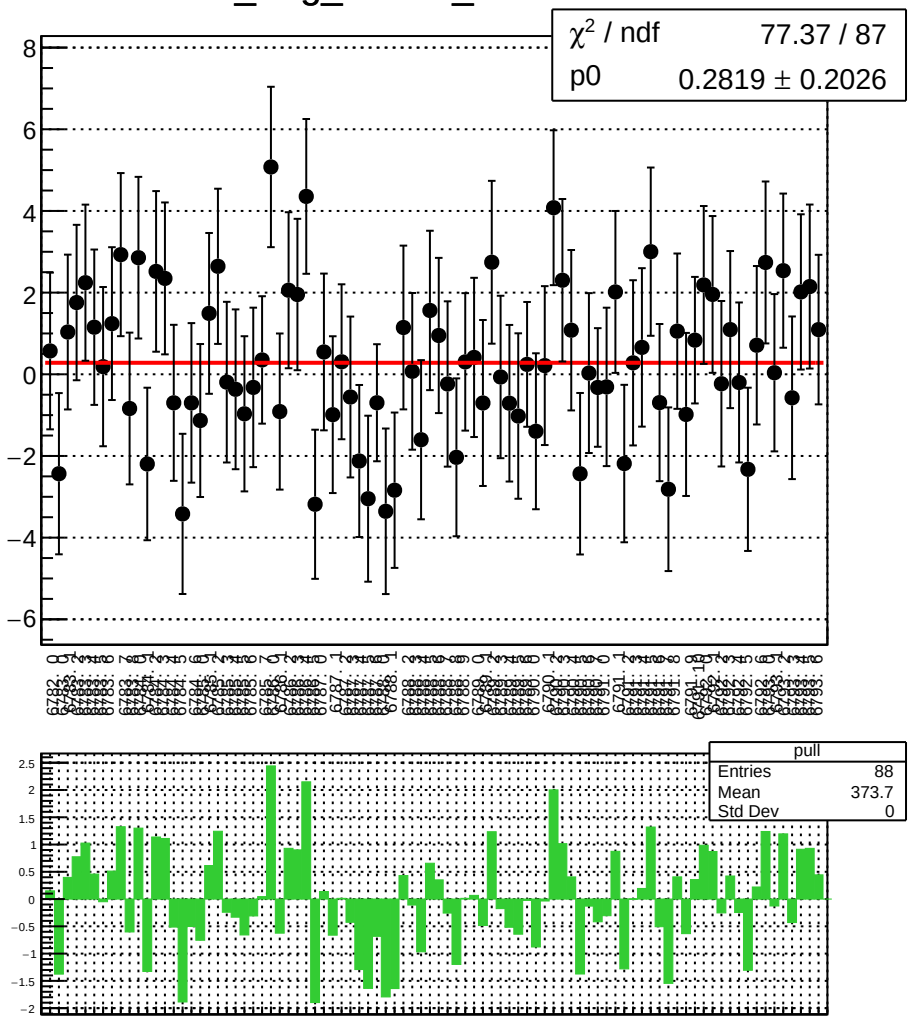

pull1D
Entries 88
Mean −0.01263
Std Dev 0.9359

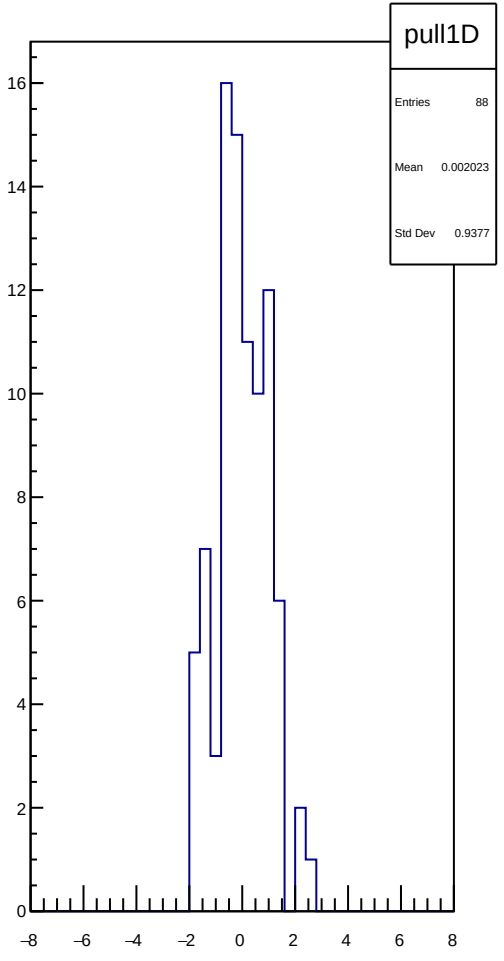

diff_targ_positionX_rms vs run
χ^2 / ndf 2827 / 87
p0 9201 ± 7.159
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400

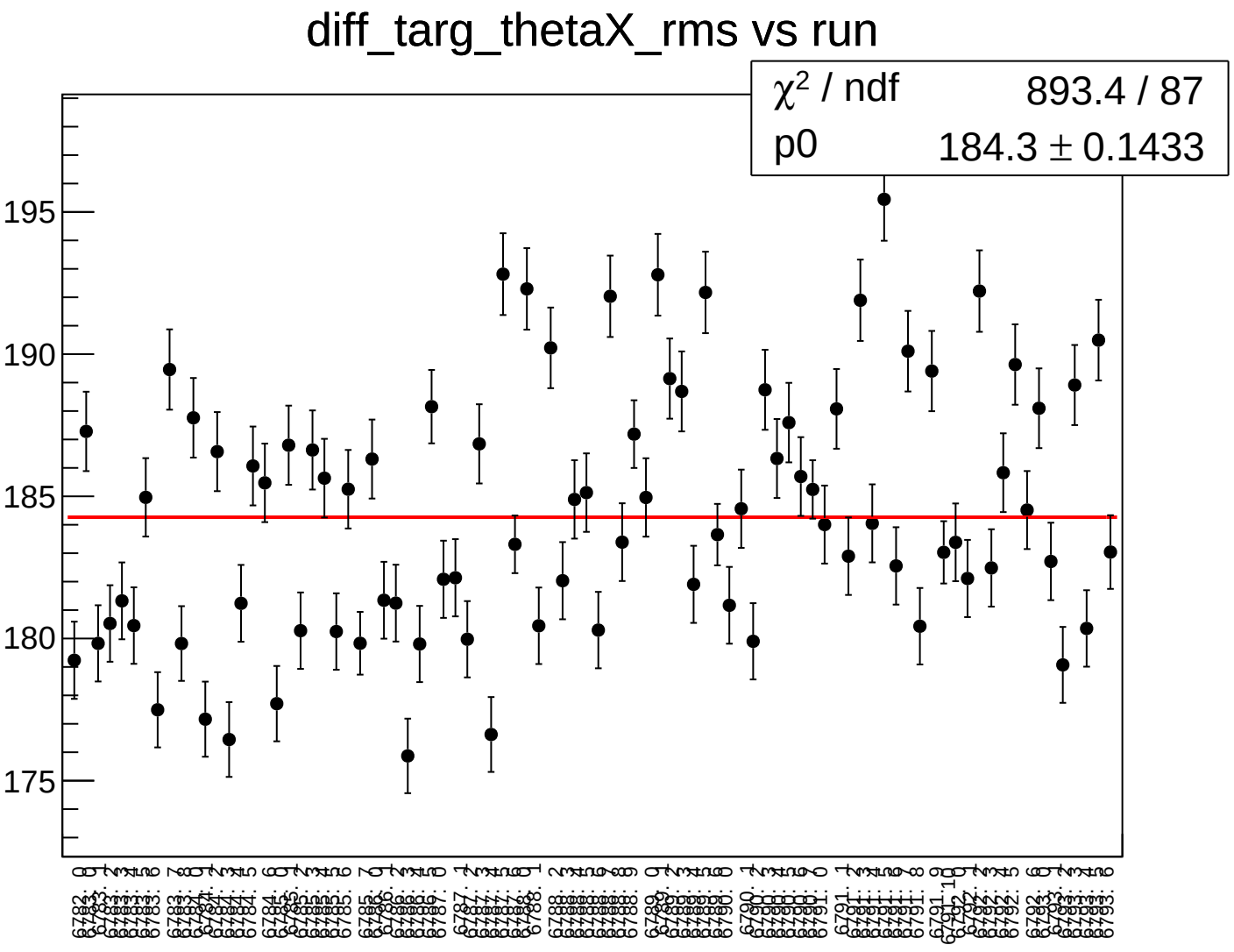

diff_targ_positionY_mean vs run
χ² / ndf 95.99 / 87
p0 7.112 ± 7.614
pull
Entries 88
Mean −313.6
Std Dev 0

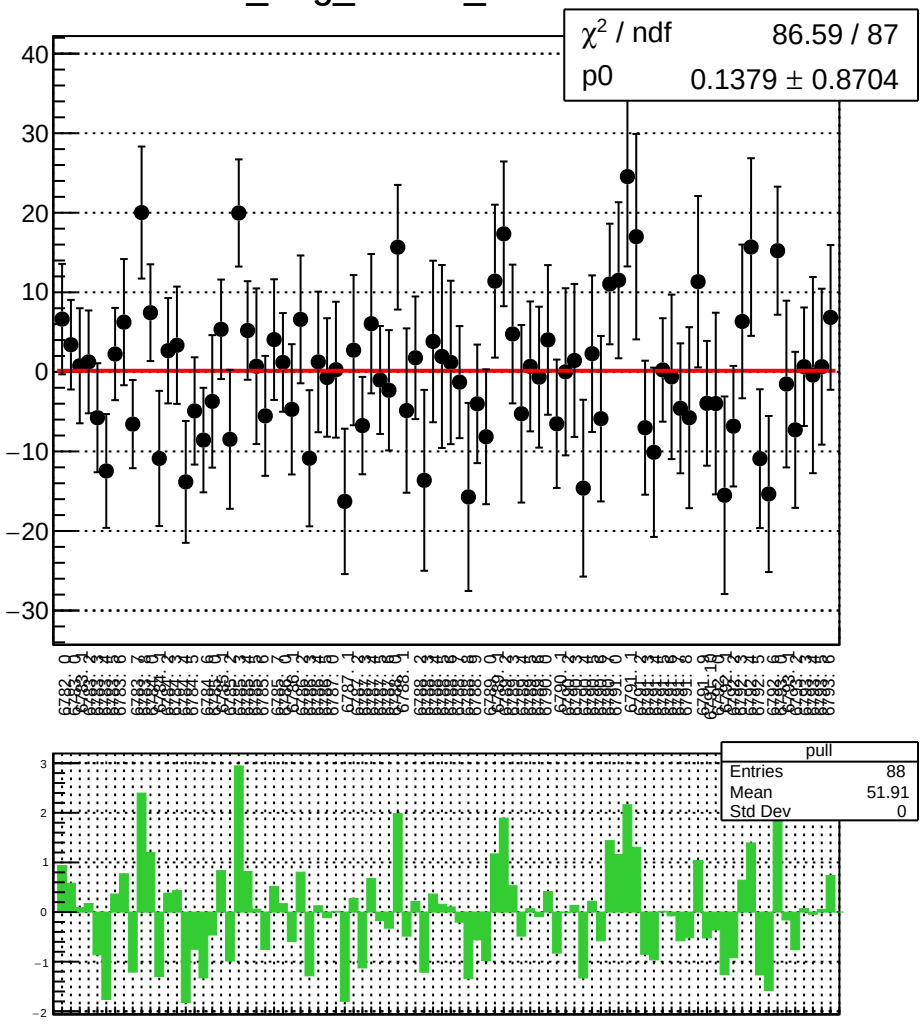

pull1D
Entries 88
Mean 0.007286
Std Dev 1.044

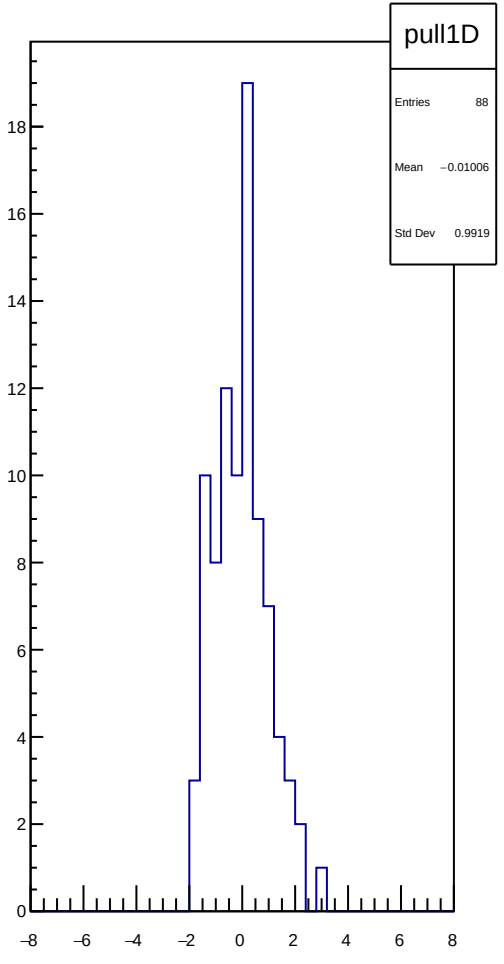

diff_targ_positionY_rms vs run
χ² / ndf 1.39e+04 / 87
p0 6897 ± 5.384
8500
8000
7500
7000
6500
6000
5500

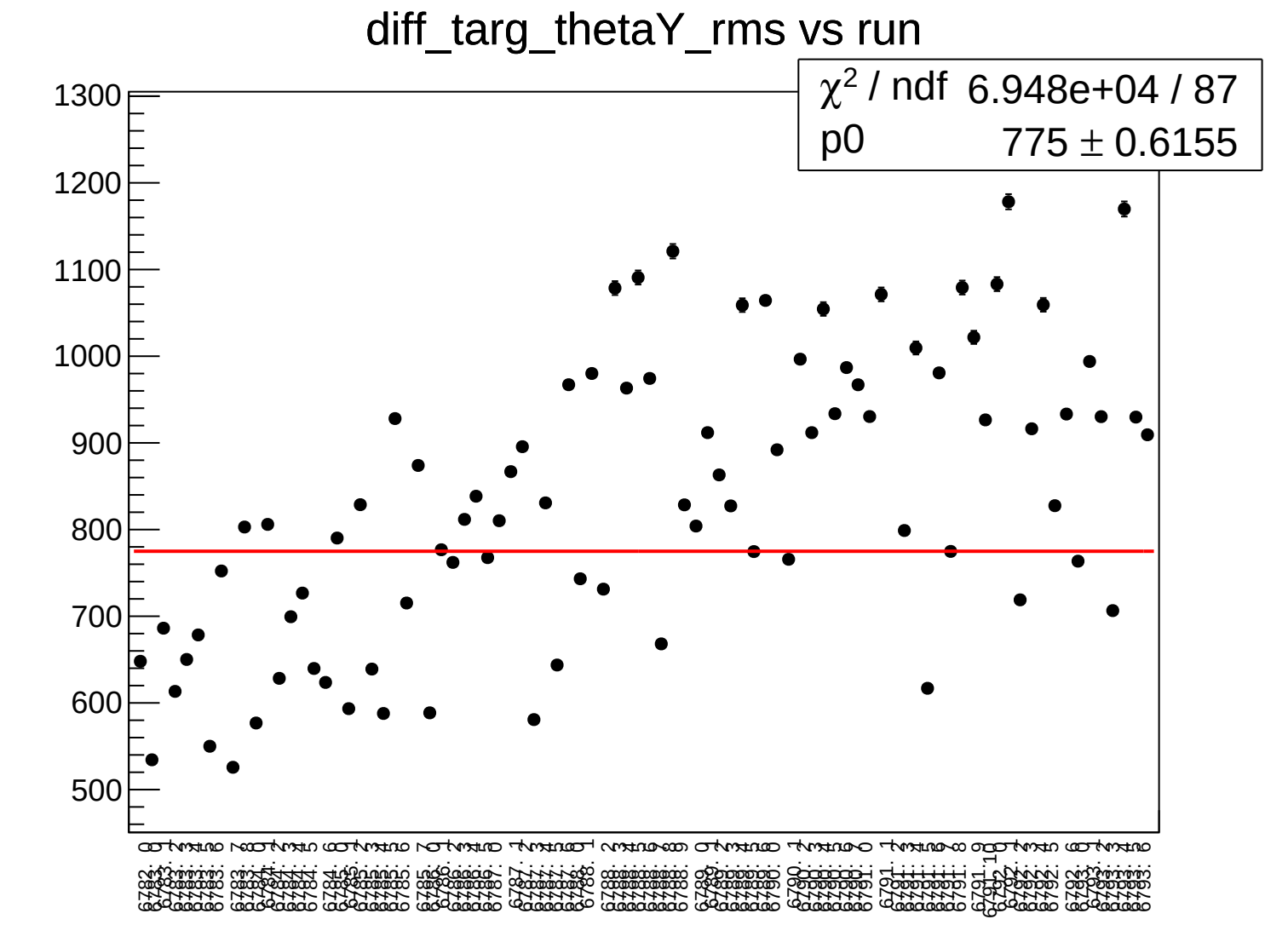

diff_targ_thetaX_mean vs run
χ² / ndf 77.37 / 87
p0 0.2819 ± 0.2026
pull
Entries 88
Mean 373.7
Std Dev 0

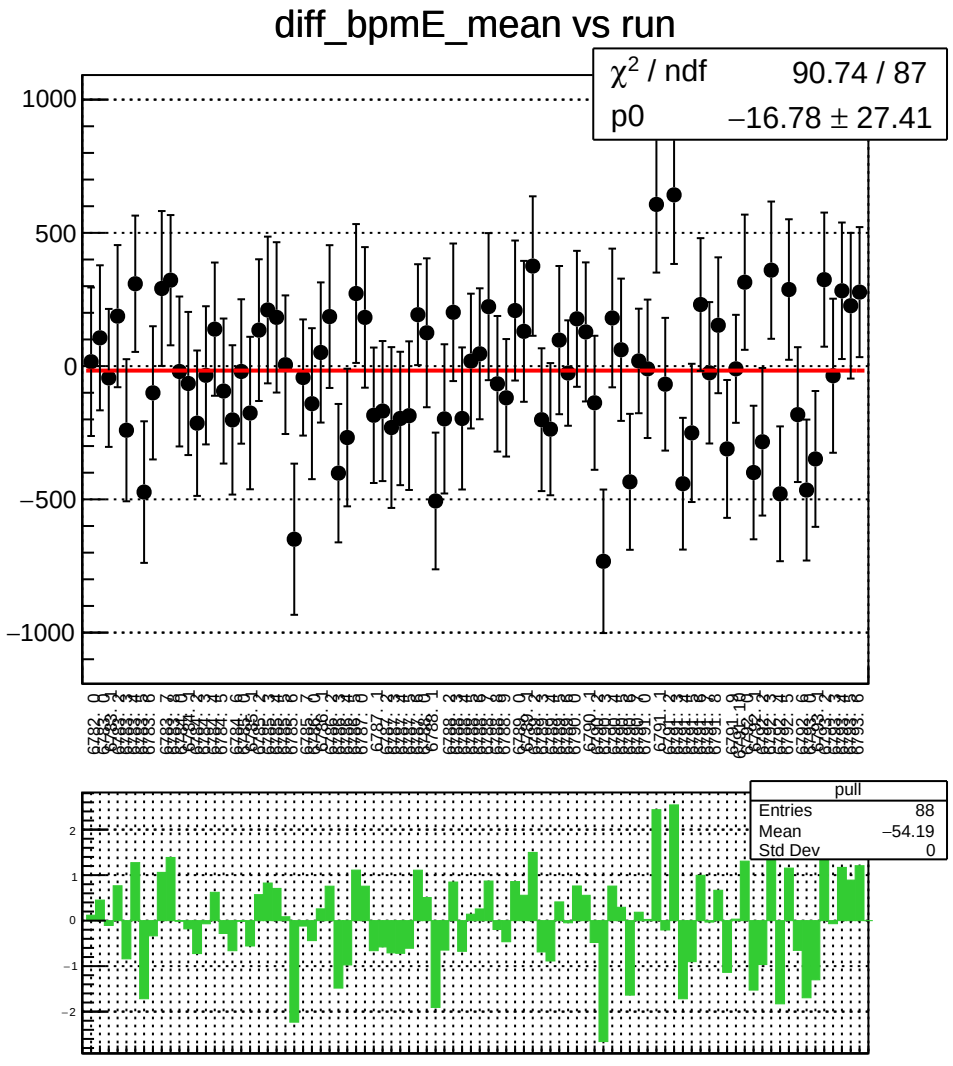

pull1D
Entries 88
Mean 0.002023
Std Dev 0.9377

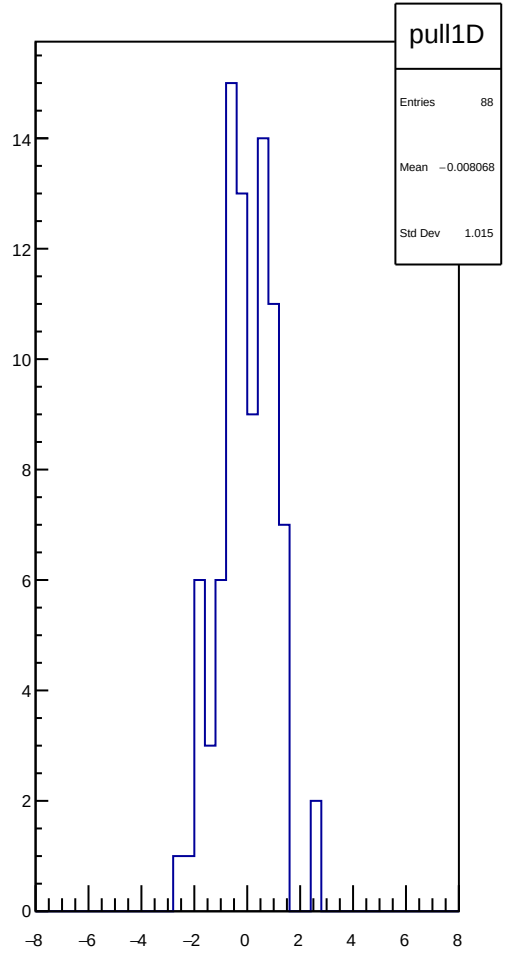

diff_targ_thetaX_rms vs run
χ² / ndf 893.4 / 87
p0 184.3 ± 0.1433
195
190
185
180
175

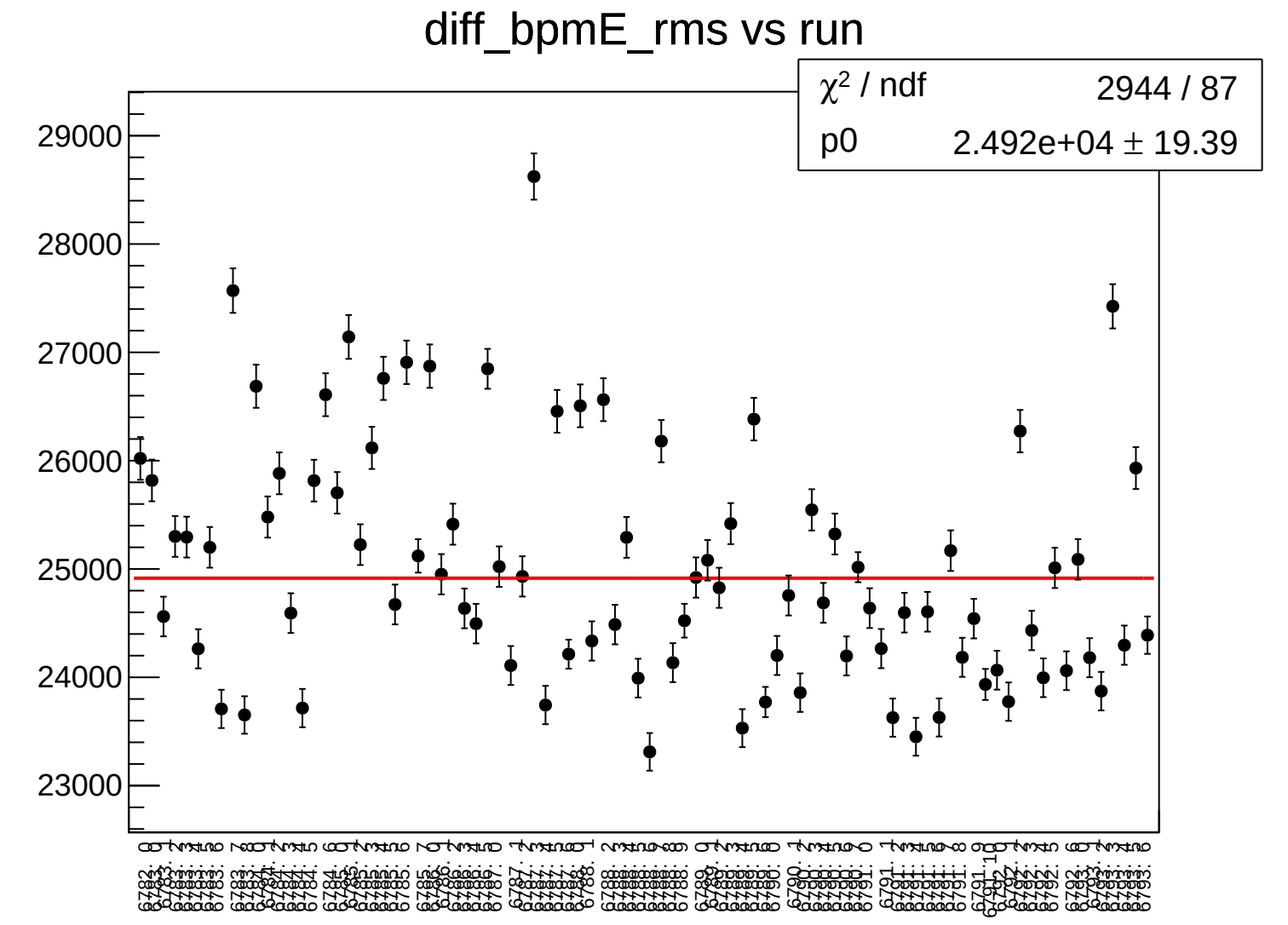

diff_targ_thetaY_mean vs run
χ^2 / ndf 86.59 / 87
p0 0.1379 ± 0.8704
pull
Entries 88
Mean 51.91
Std Dev 0

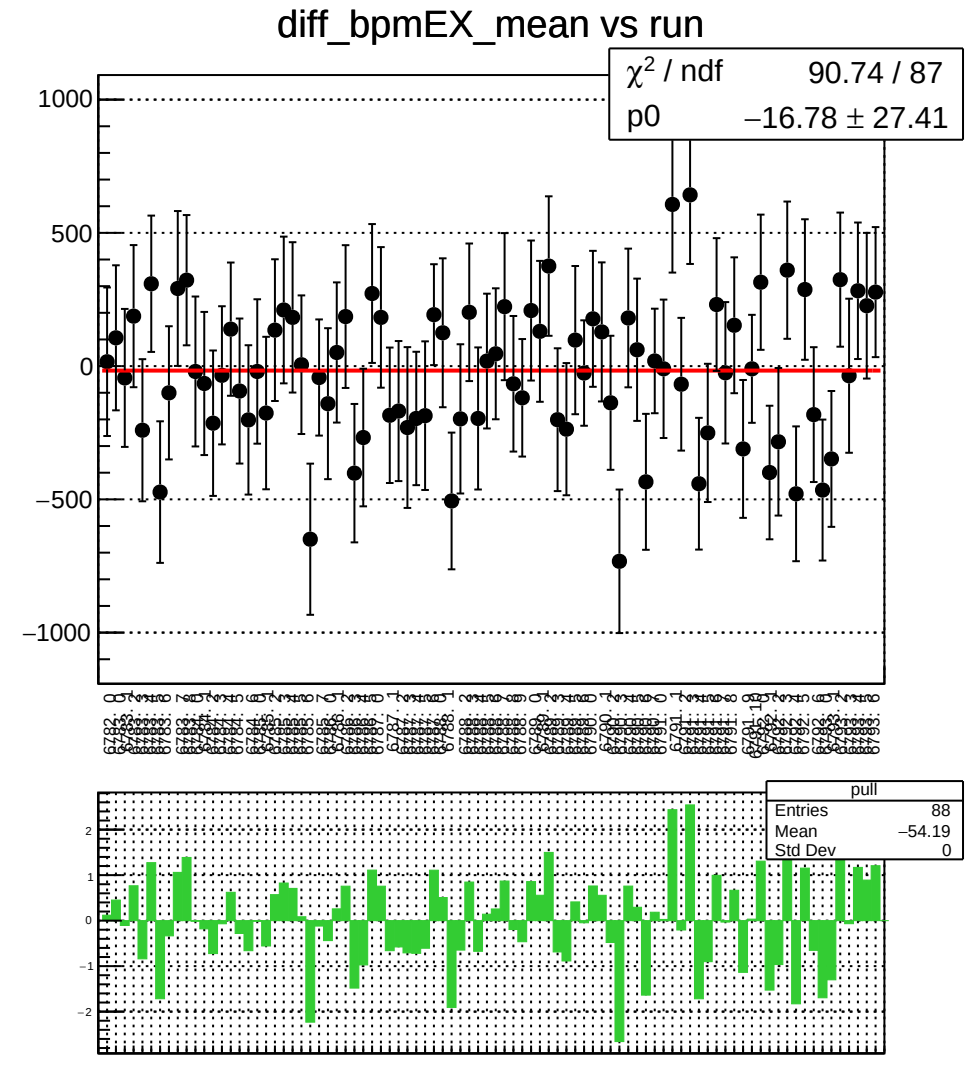

pull1D
Entries 88
Mean −0.01006
Std Dev 0.9919

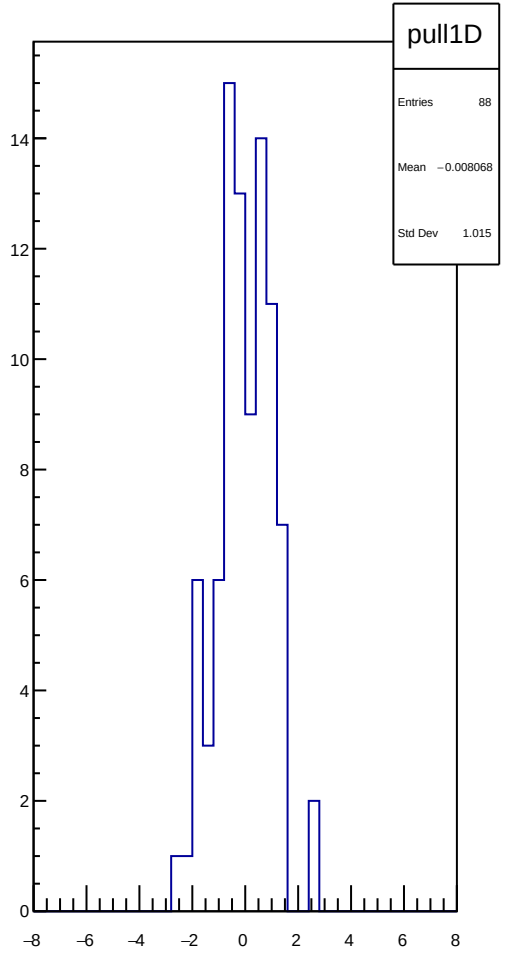

diff_targ_thetaY_rms vs run
χ² / ndf 6.948e+04 / 87
p0 775 ± 0.6155
1300
1200
1100
1000
900
800
700
600
500

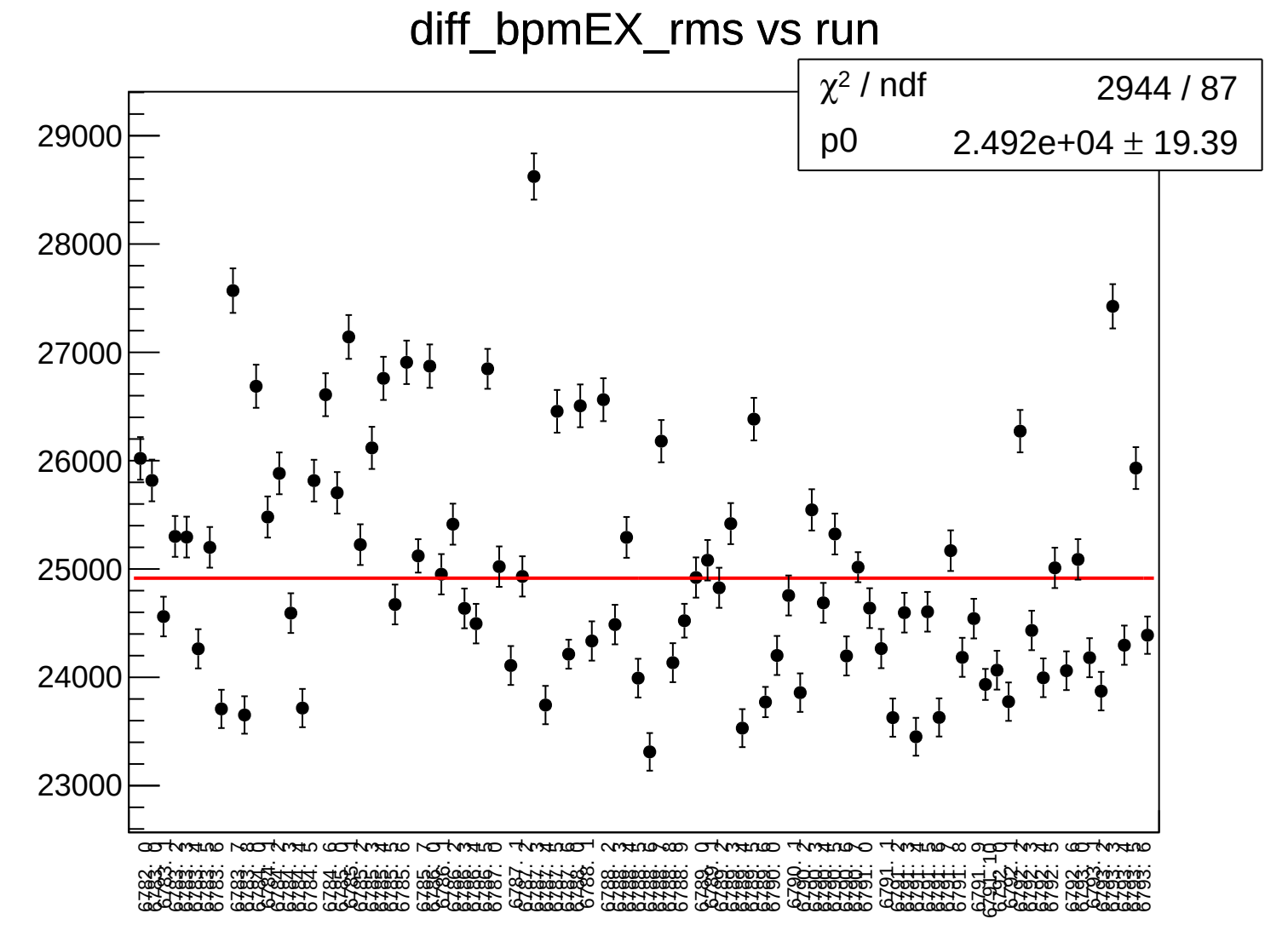

diff_bpmE_mean vs run
χ^2 / ndf 90.74 / 87
p0 −16.78 ± 27.41
1000
500
0
−500
−1000
pull
Entries 88
Mean −54.19
Std Dev 0
2
1
0
−1
−2

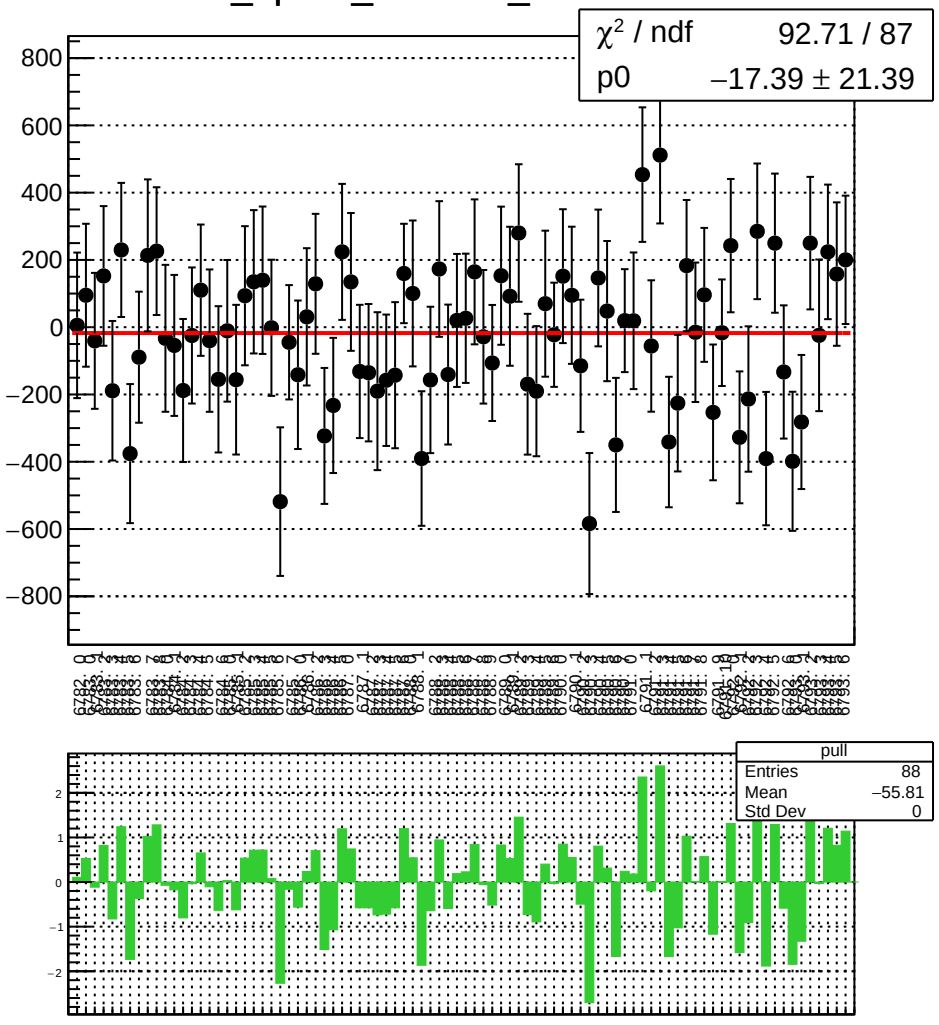

pull1D
Entries 88
Mean −0.008068
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

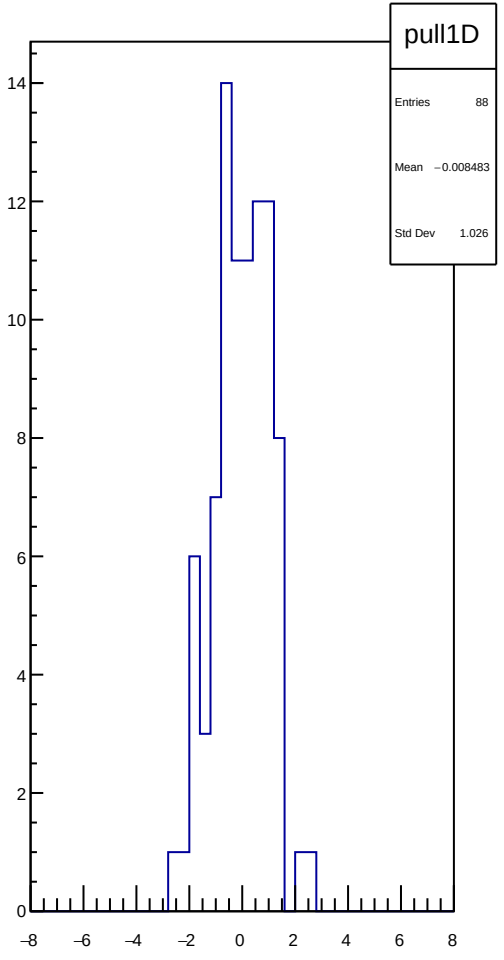

diff_bpmE_rms vs run
χ² / ndf 2944 / 87
p0 2.492e+04 ± 19.39
29000
28000
27000
26000
25000
24000
23000

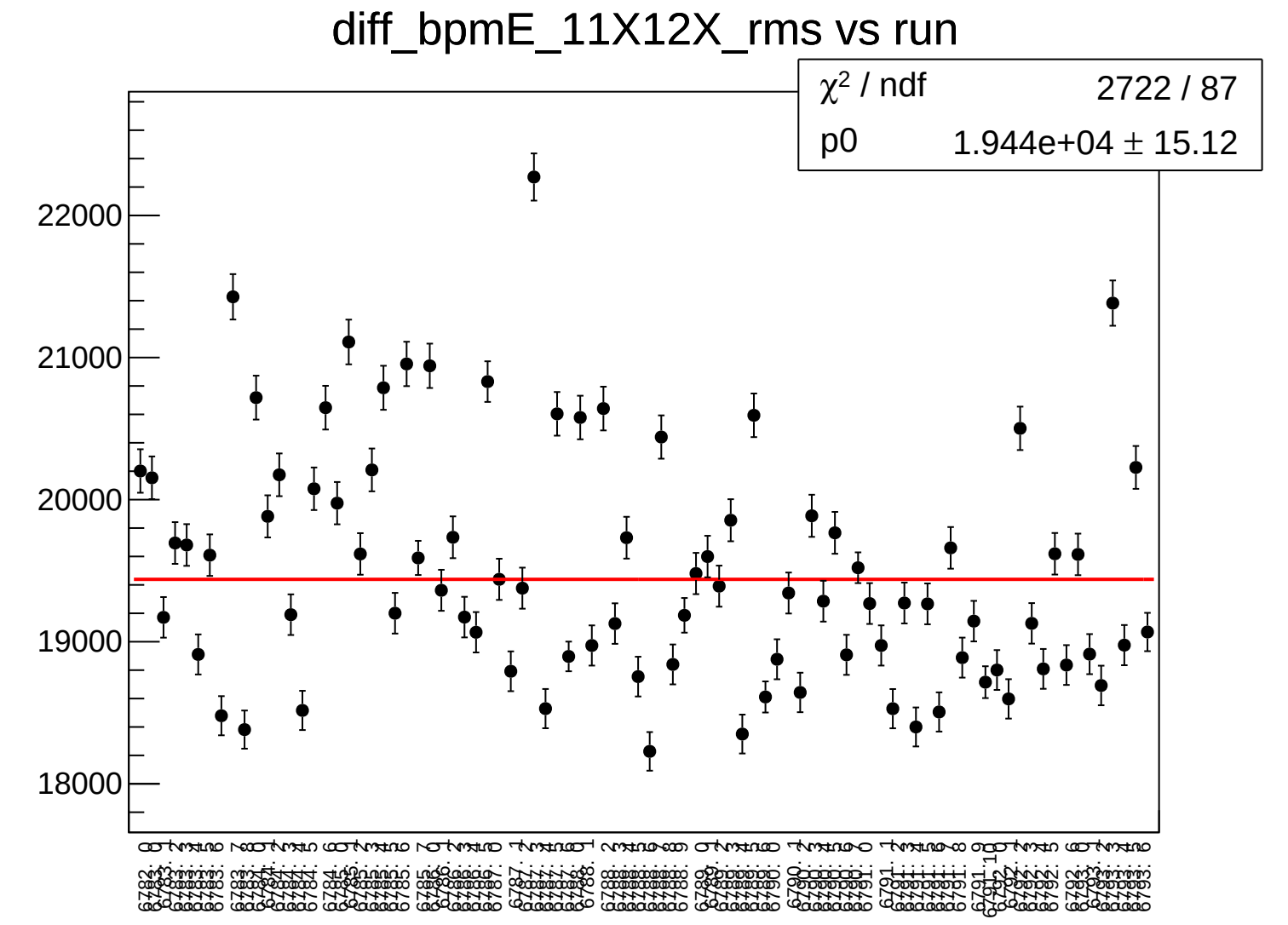

diff_bpmEX_mean vs run
χ² / ndf 90.74 / 87
p0 −16.78 ± 27.41
1000
500
0
−500
−1000
pull
Entries 88
Mean −54.19
Std Dev 0
2
1
0
−1
−2

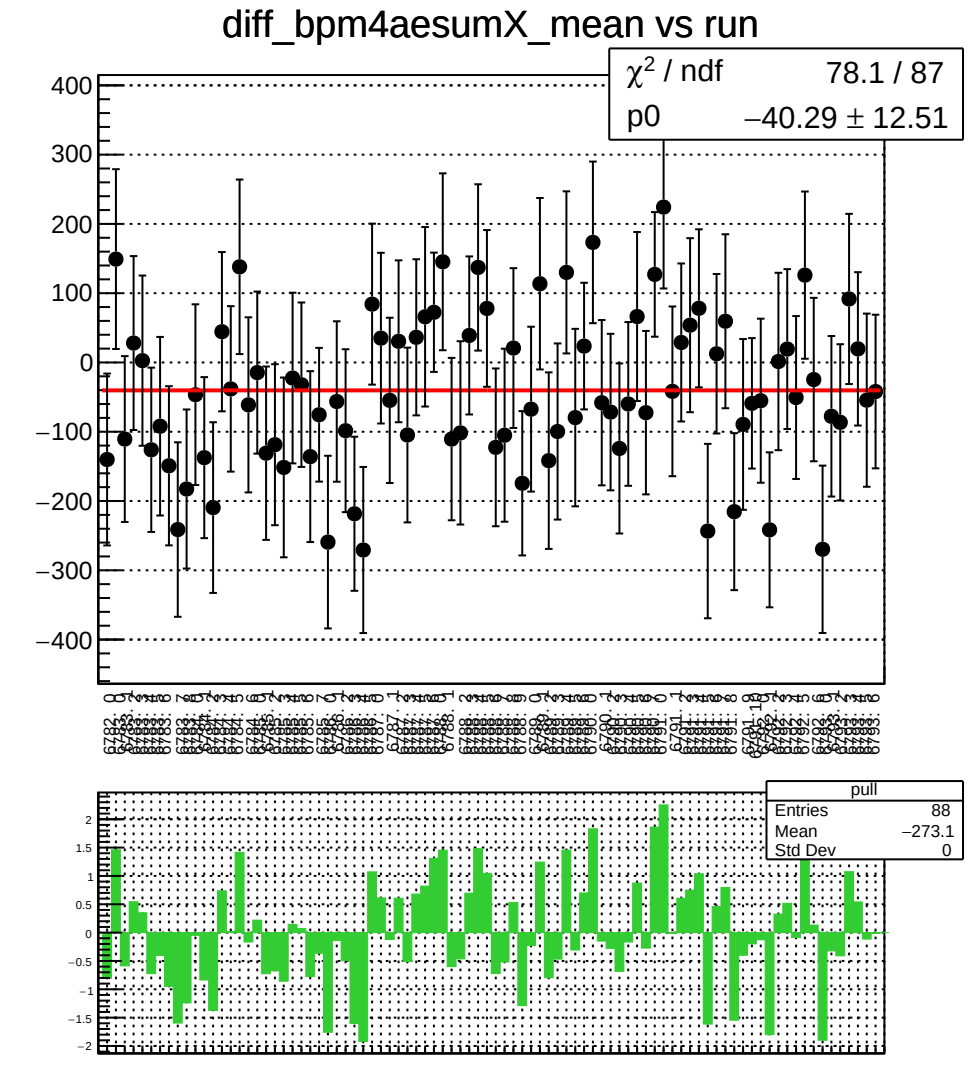

pull1D
Entries 88
Mean −0.008068
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

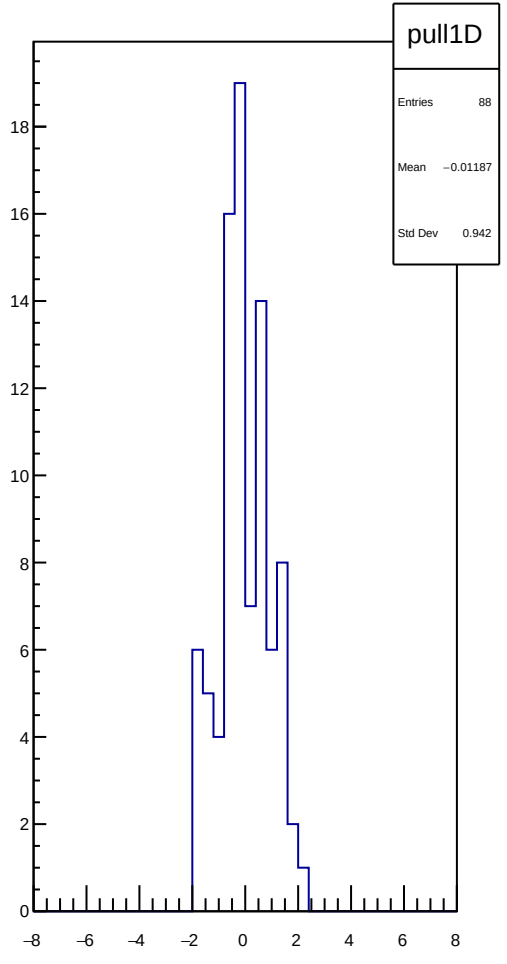

diff_bpmEX_rms vs run
χ² / ndf 2944 / 87
p0 2.492e+04 ± 19.39
29000
28000
27000
26000
25000
24000
23000

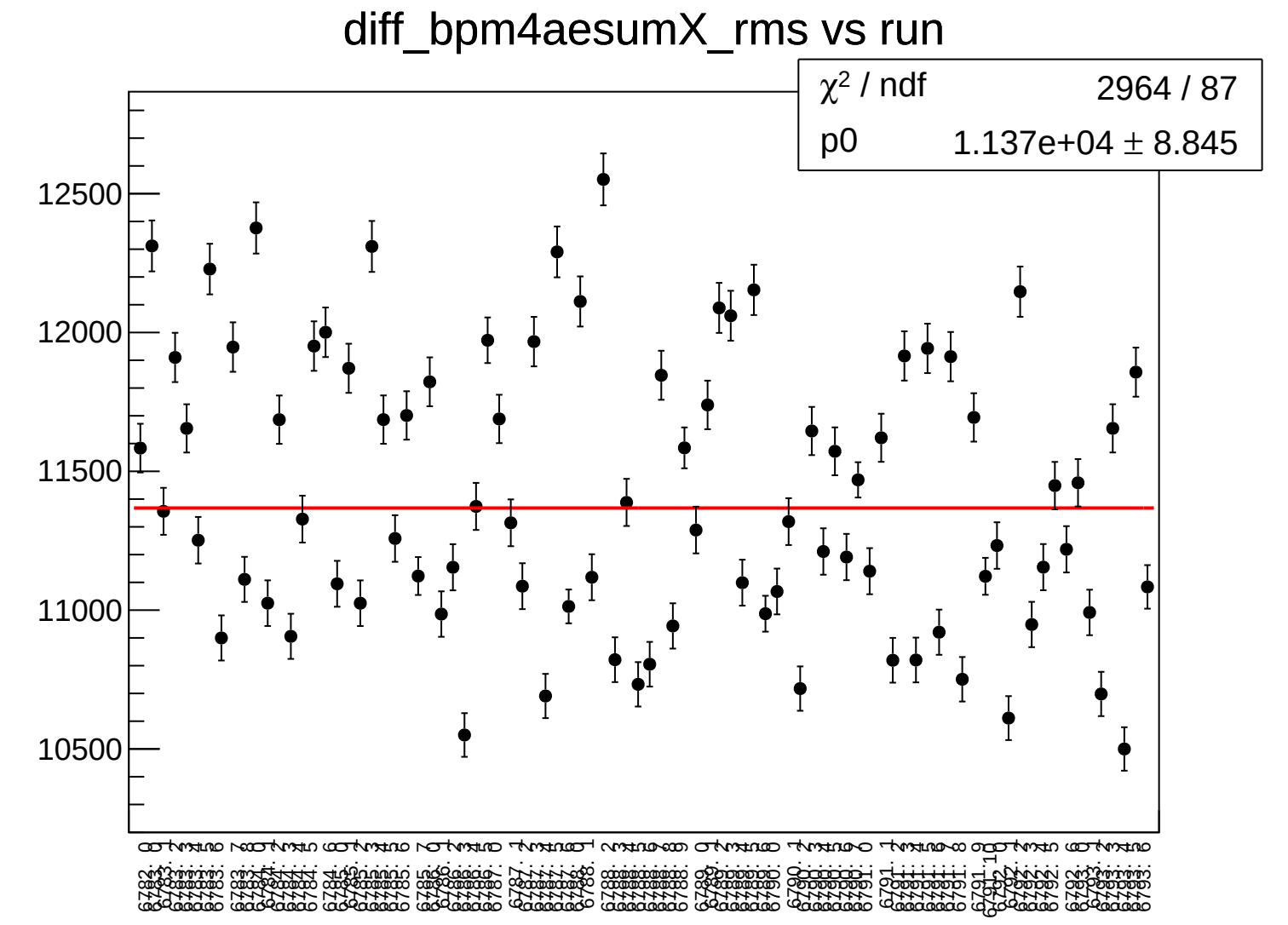

diff_bpmE_11X12X_mean vs run
χ² / ndf 92.71 / 87
p0 −17.39 ± 21.39
pull
Entries 88
Mean −55.81
Std Dev 0

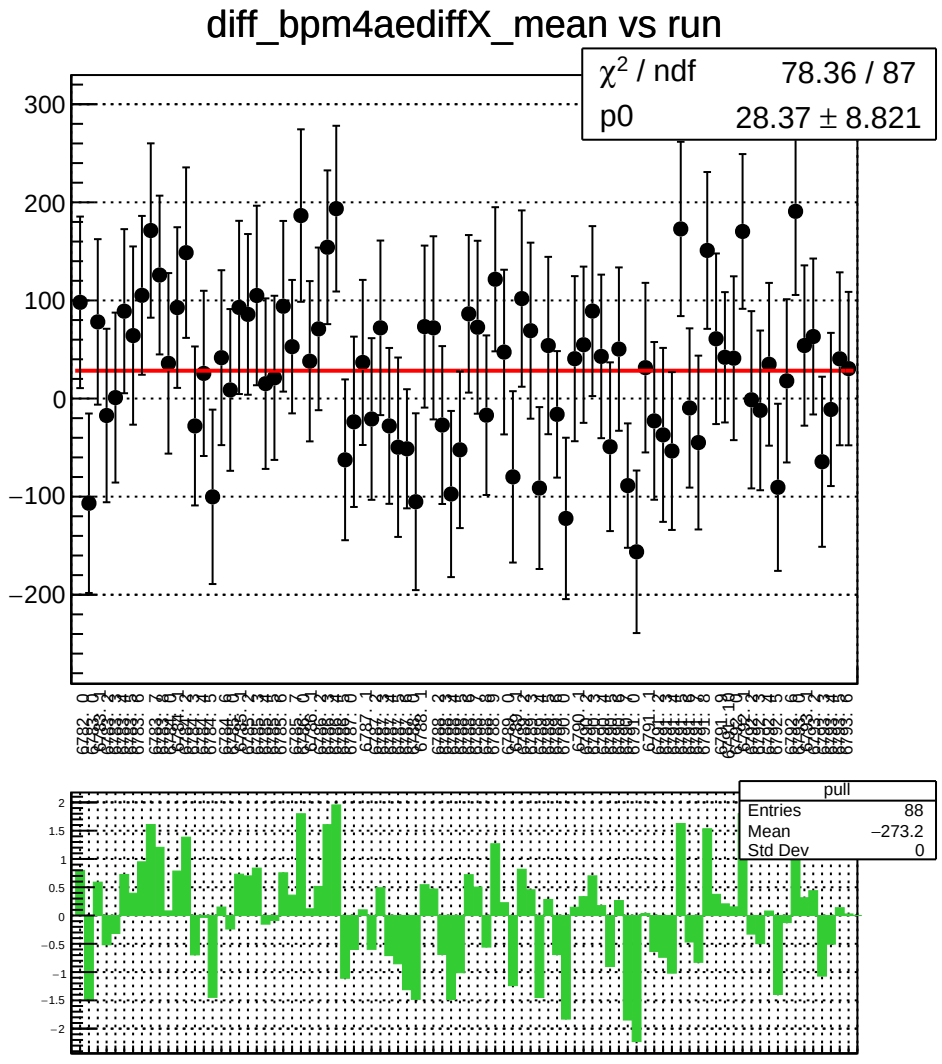

pull1D
Entries 88
Mean −0.008483
Std Dev 1.026

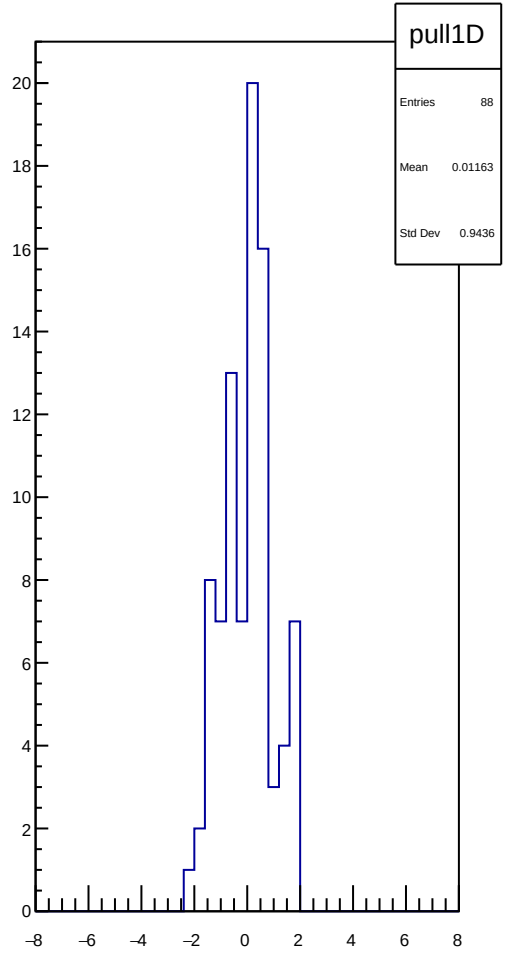

diff_bpmE_11X12X_rms vs run
χ² / ndf 2722 / 87
p0 1.944e+04 ± 15.12
22000
21000
20000
19000
18000

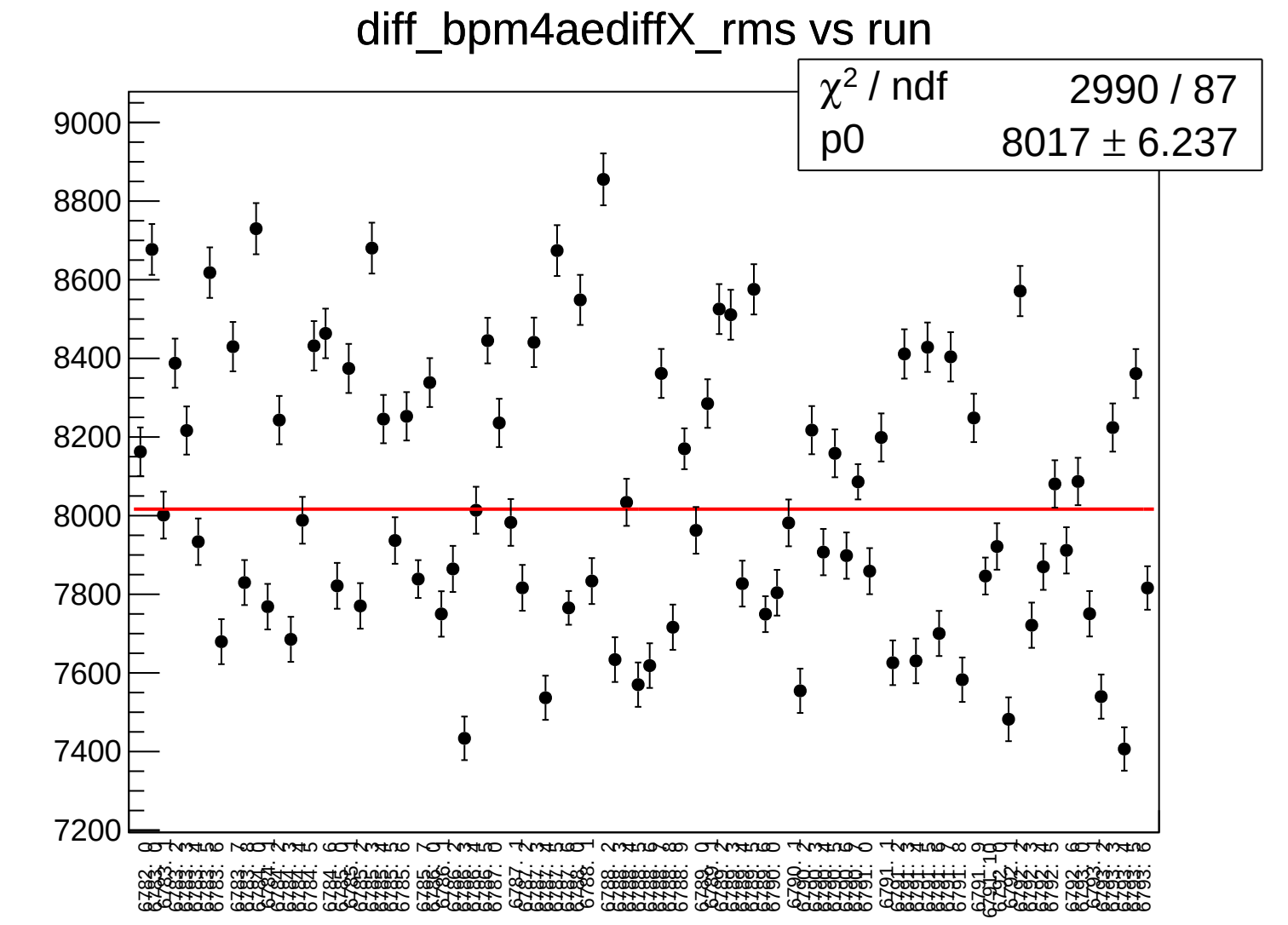

diff_bpm4aesumX_mean vs run
χ² / ndf 78.1 / 87
p0 −40.29 ± 12.51
pull
Entries 88
Mean −273.1
Std Dev 0

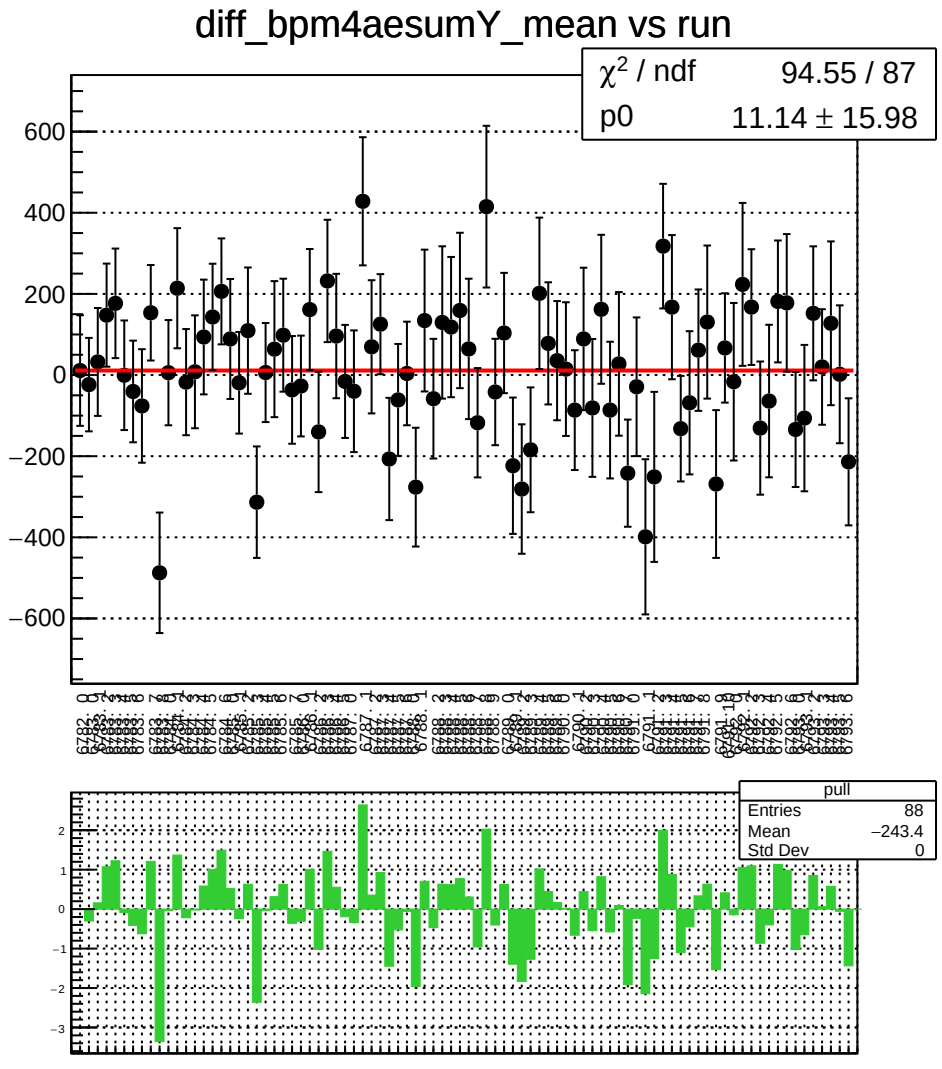

pull1D
Entries 88
Mean −0.01187
Std Dev 0.942

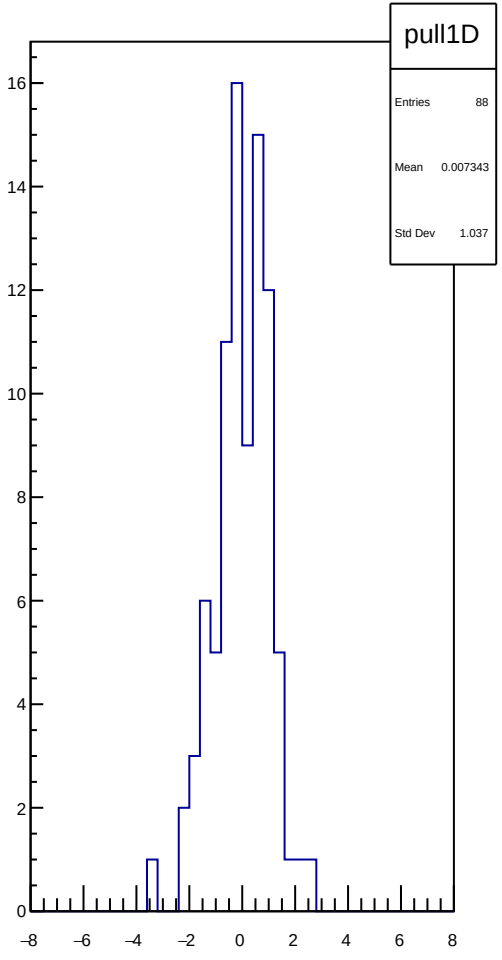

diff_bpm4aesumX_rms vs run
χ² / ndf 2964 / 87
p0 1.137e+04 ± 8.845
12500
12000
11500
11000
10500

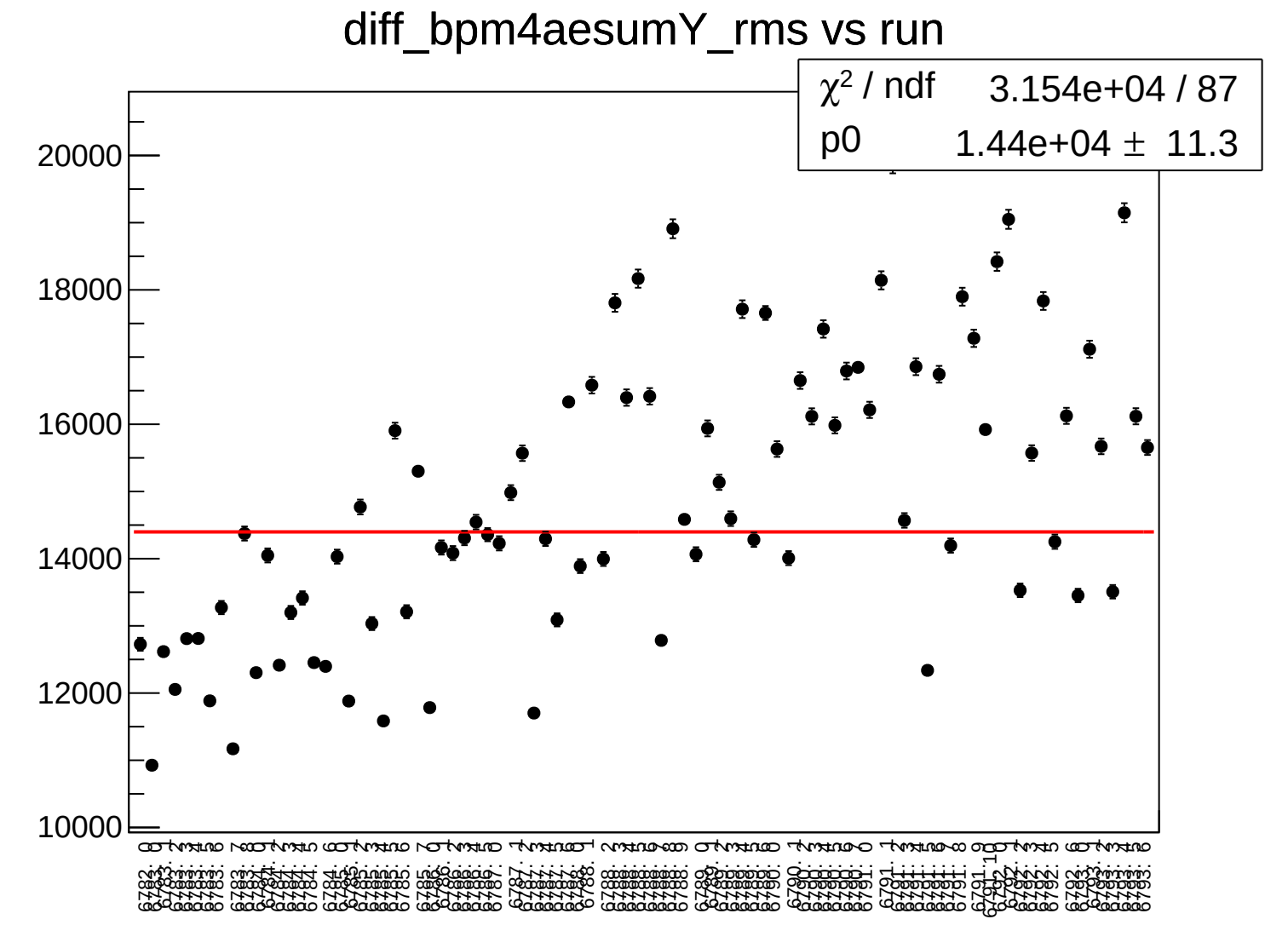

diff_bpm4aediffX_mean vs run
χ² / ndf 78.36 / 87
p0 28.37 ± 8.821
300
200
100
0
−100
−200
pull
Entries 88
Mean −273.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

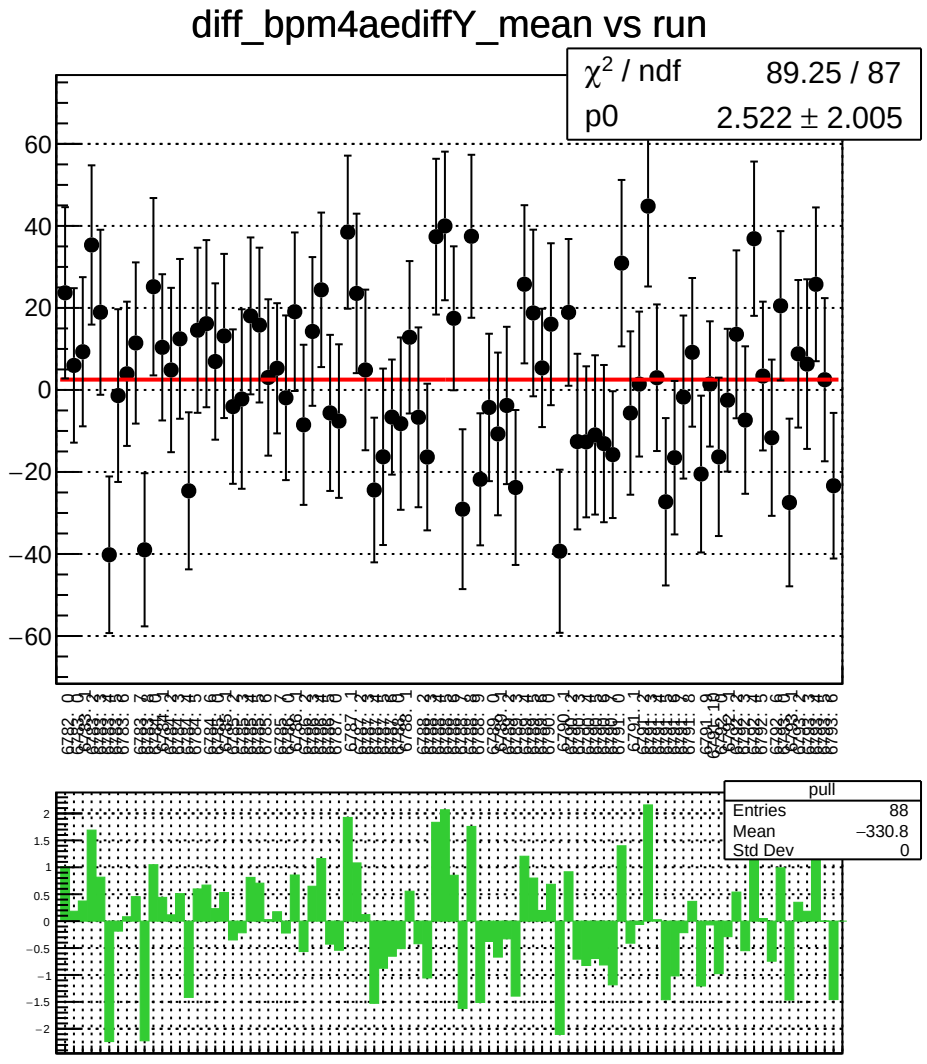

pull1D
Entries 88
Mean 0.01163
Std Dev 0.9436
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

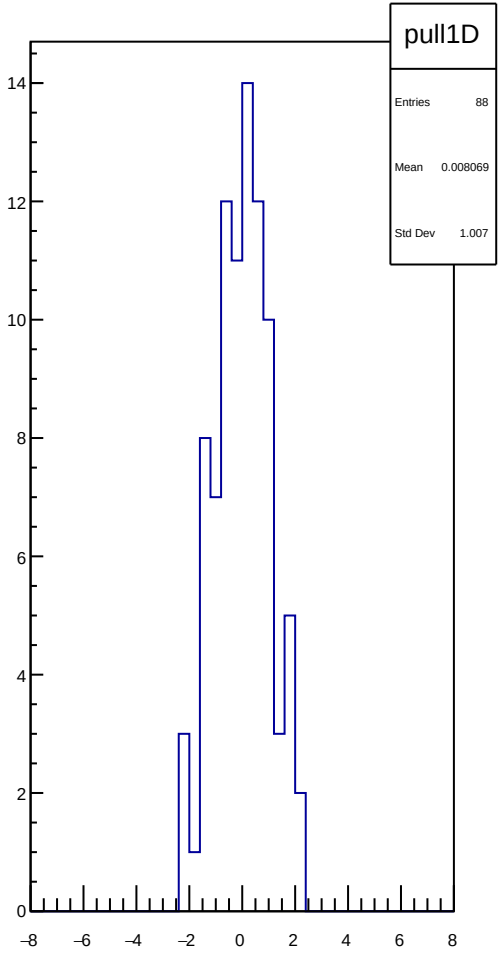

diff_bpm4aediffX_rms vs run
χ² / ndf 2990 / 87
p0 8017 ± 6.237
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

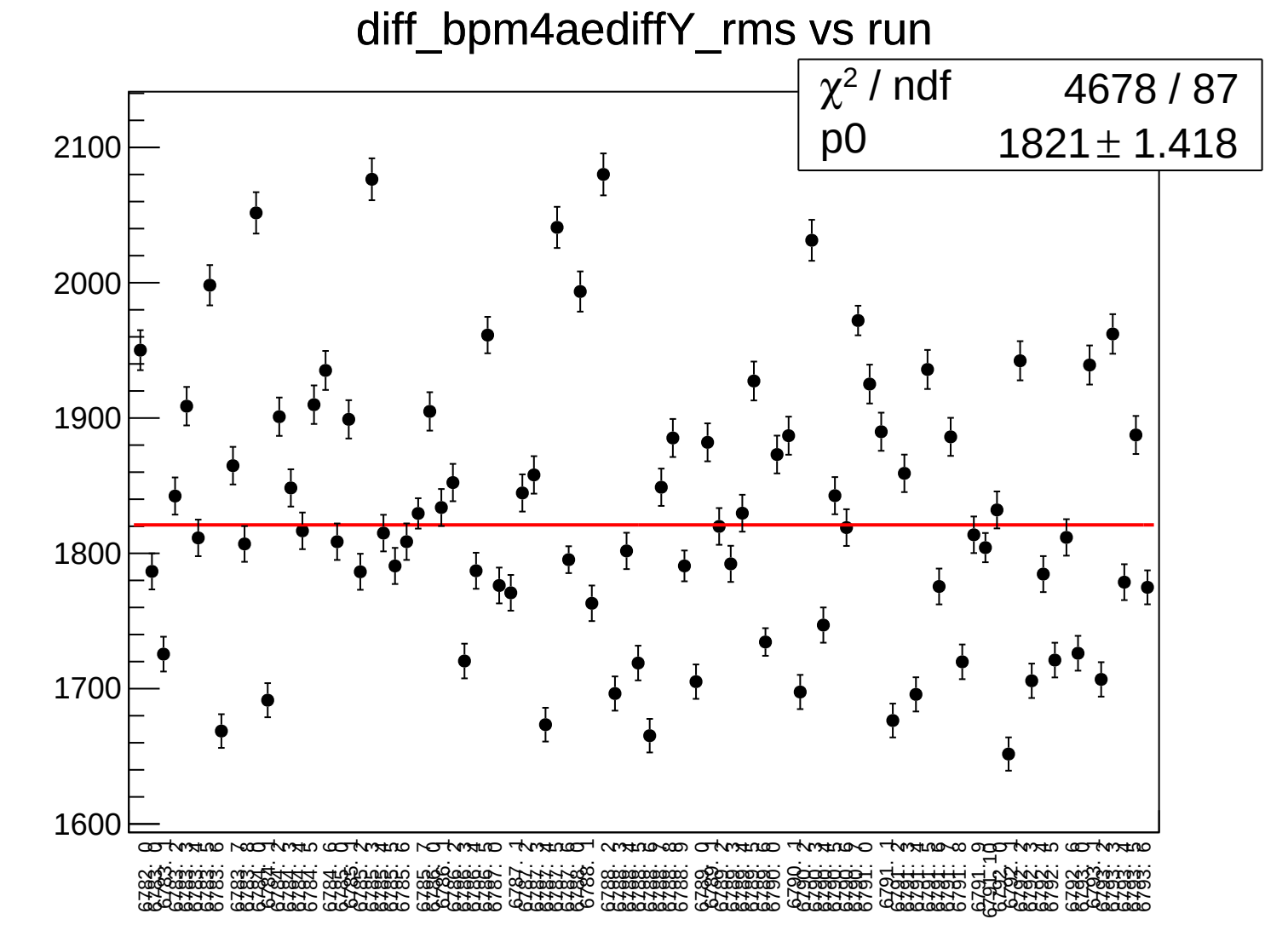

diff_bpm4aesumY_mean vs run
χ² / ndf 94.55 / 87
p0 11.14 ± 15.98
pull
Entries 88
Mean −243.4
Std Dev 0

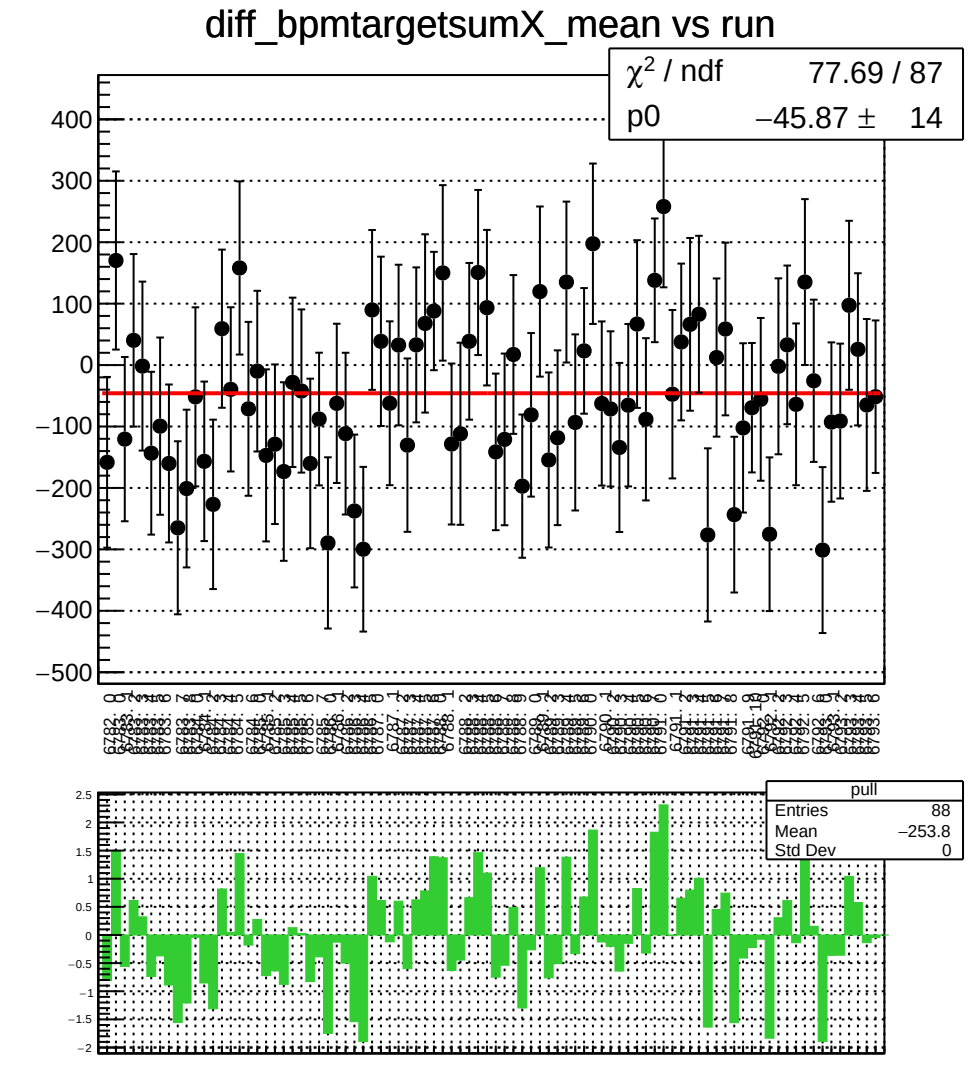

pull1D
Entries 88
Mean 0.007343
Std Dev 1.037

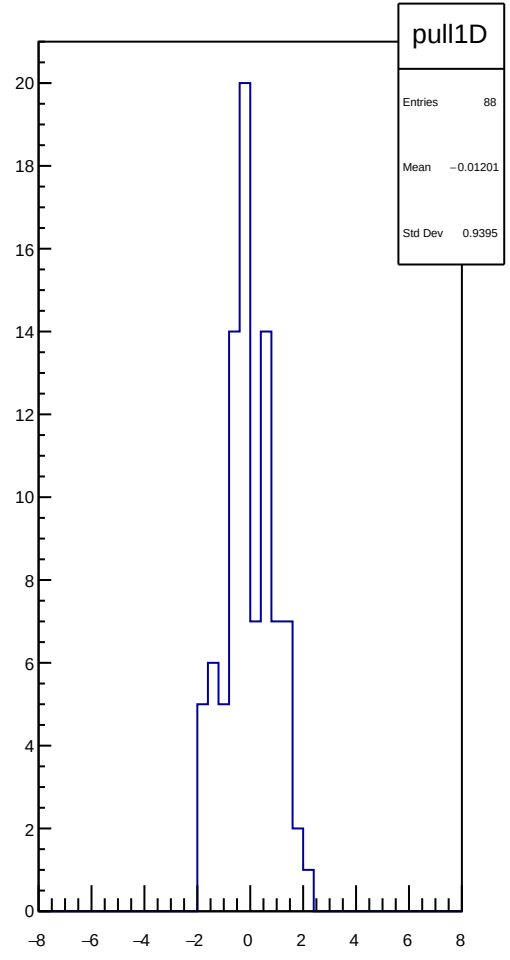

diff_bpm4aesumY_rms vs run
χ² / ndf 3.154e+04 / 87
p0 1.44e+04 ± 11.3
20000
18000
16000
14000
12000
10000

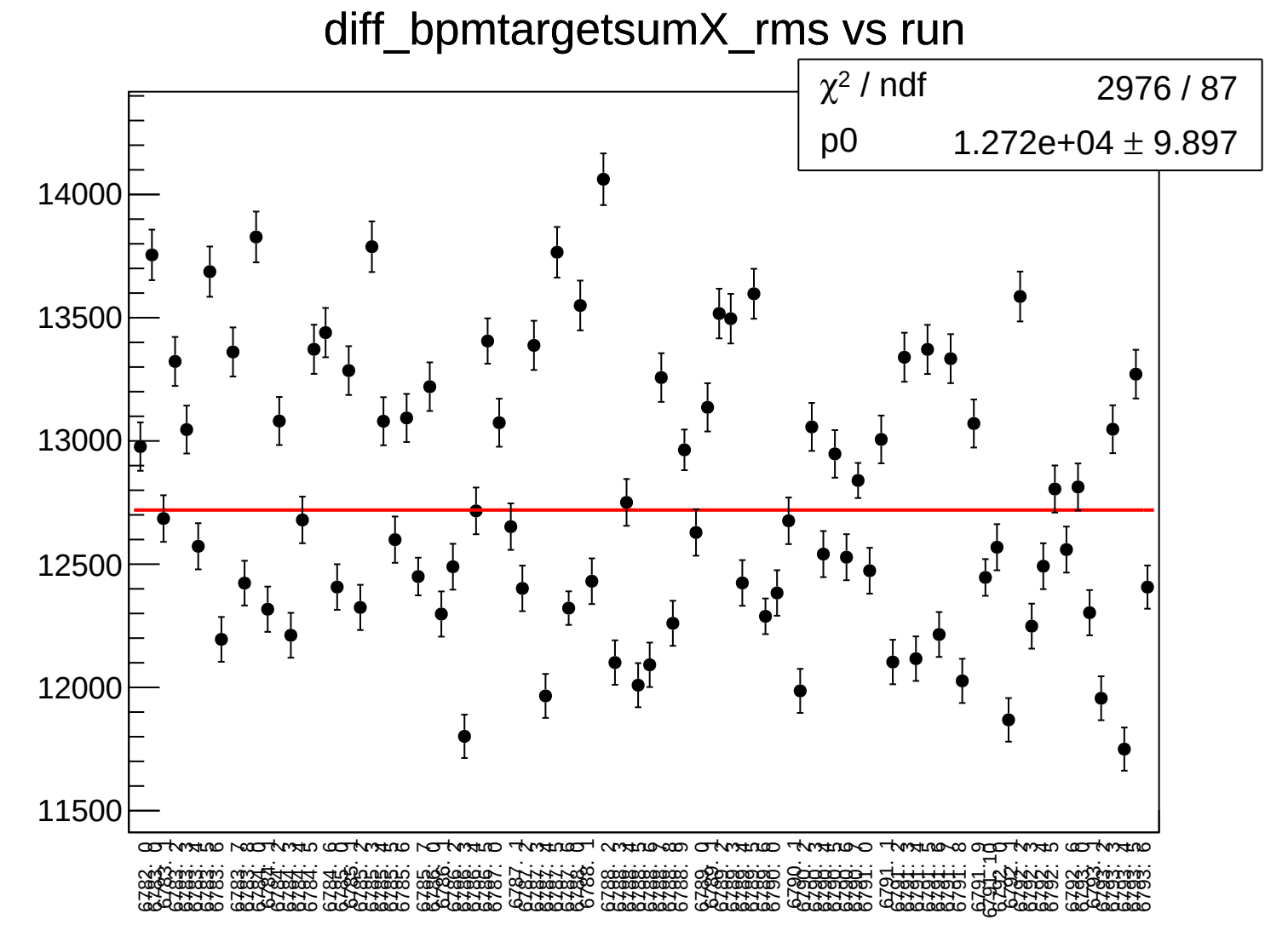

diff_bpm4aediffY_mean vs run
χ² / ndf 89.25 / 87
p0 2.522 ± 2.005
pull
Entries 88
Mean −330.8
Std Dev 0

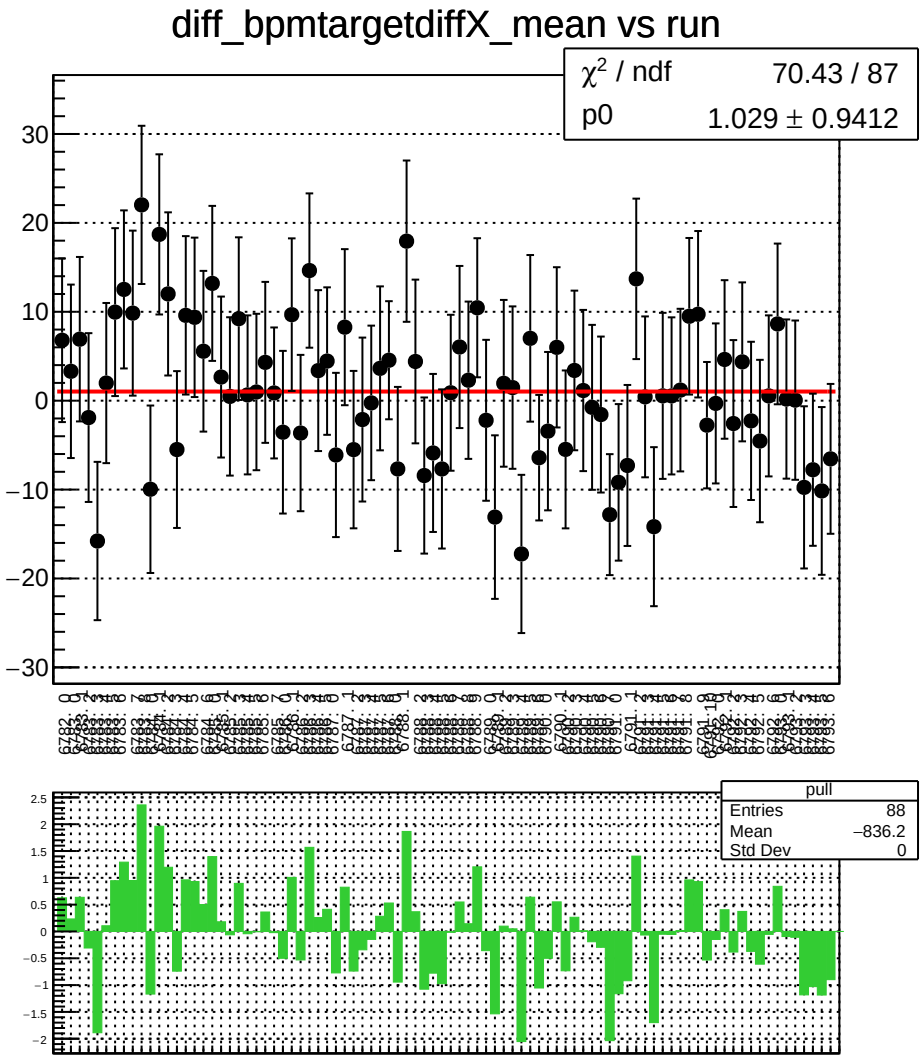

pull1D
Entries 88
Mean 0.008069
Std Dev 1.007

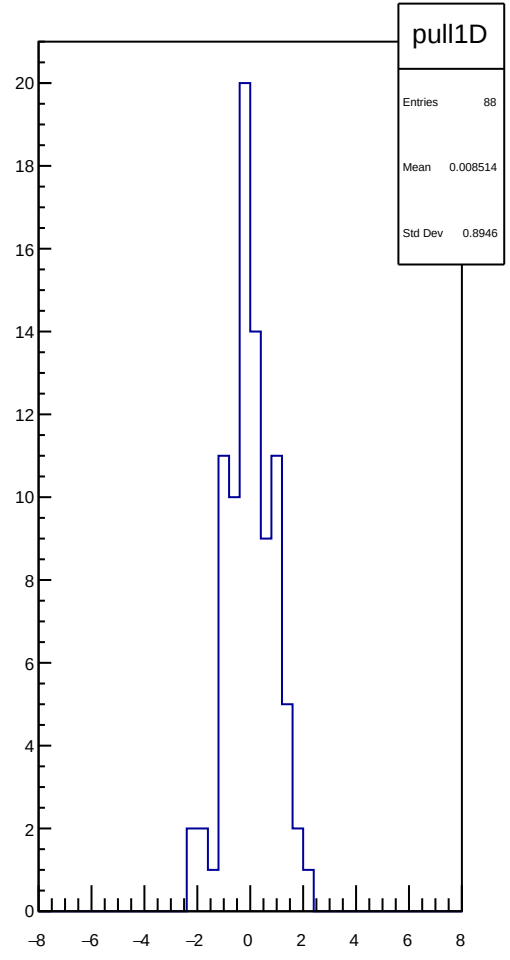

diff_bpm4aediffY_rms vs run
χ² / ndf 4678 / 87
p0 1821 ± 1.418
2100
2000
1900
1800
1700
1600

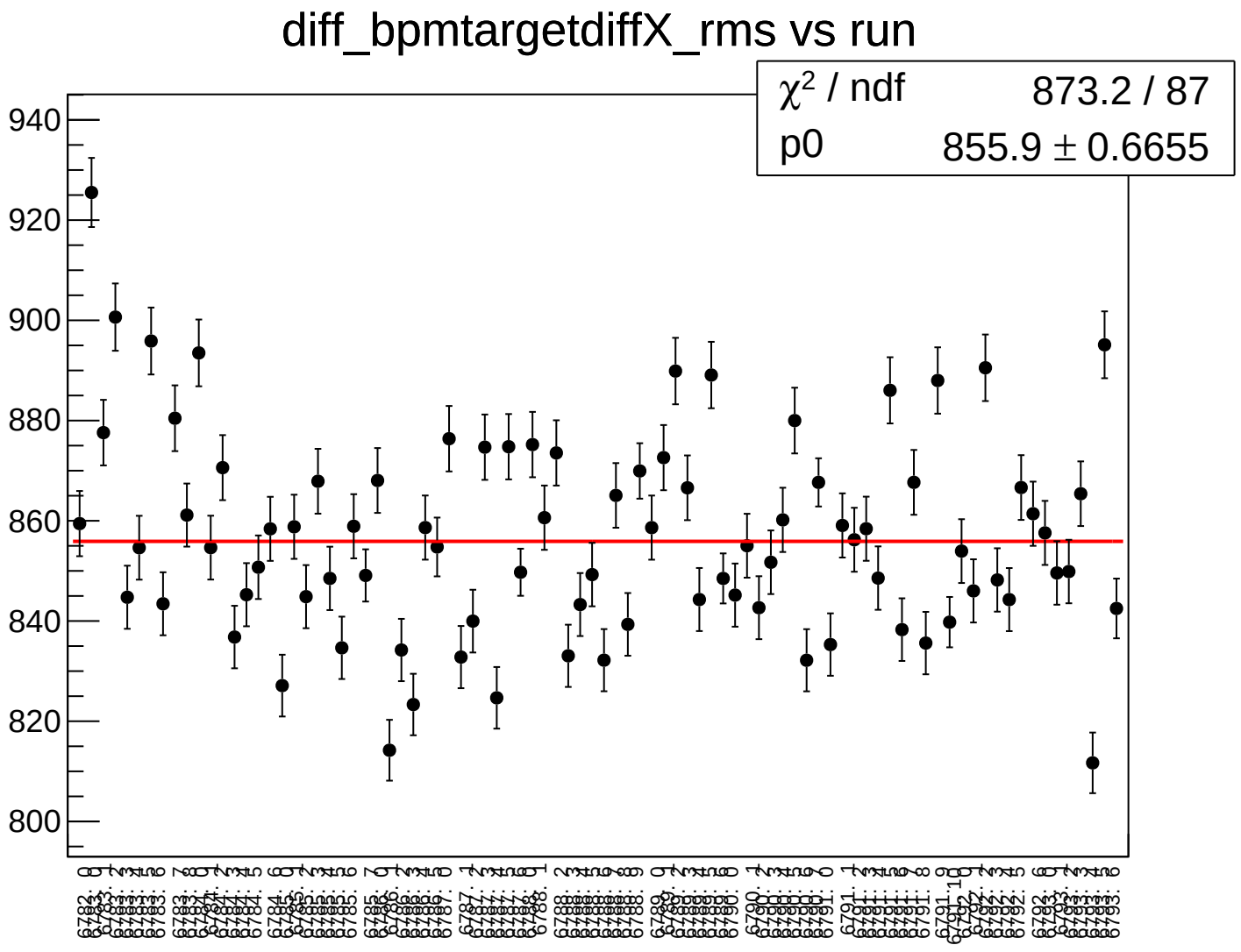

diff_bpmtargetsumX_mean vs run
χ² / ndf 77.69 / 87
p0 −45.87 ± 14
pull
Entries 88
Mean −253.8
Std Dev 0

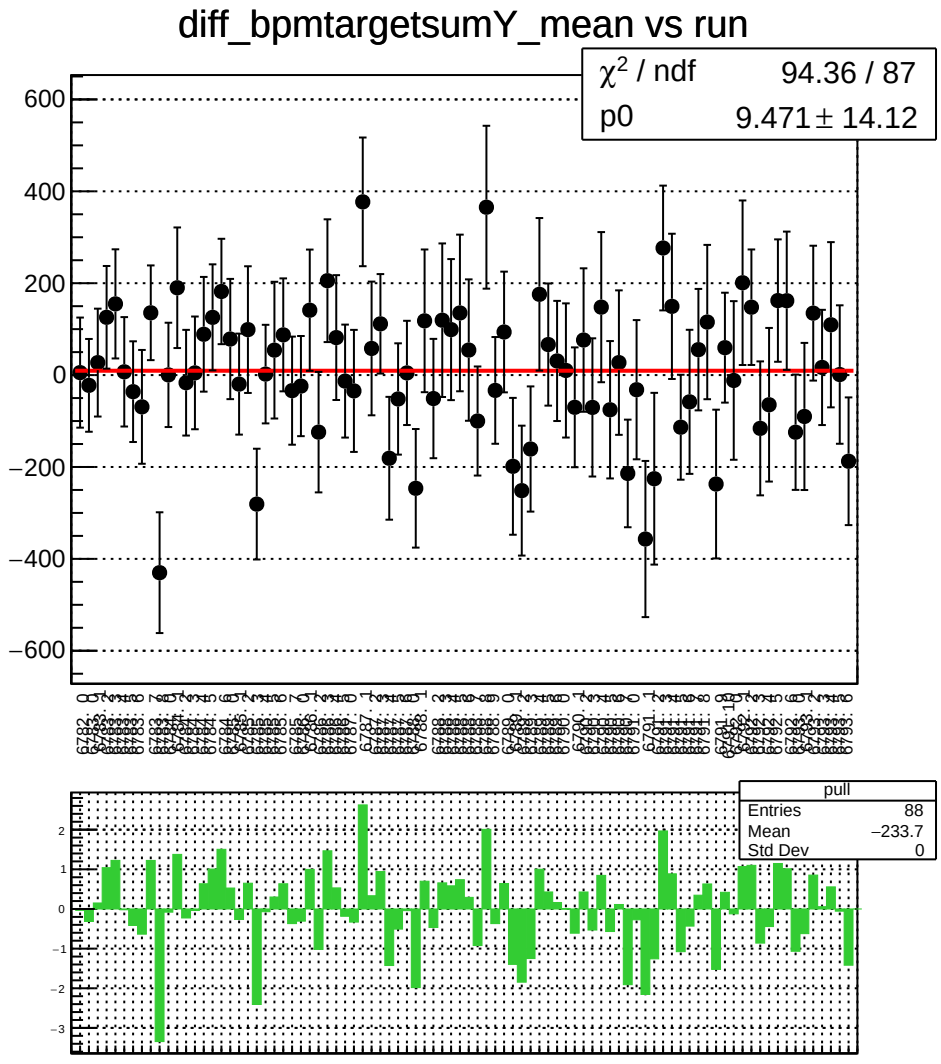

pull1D
Entries 88
Mean −0.01201
Std Dev 0.9395

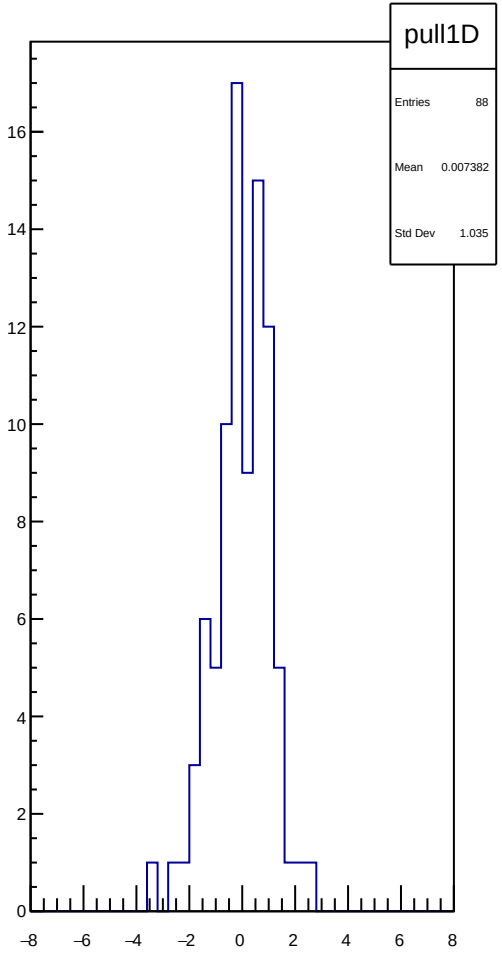

diff_bpmtargetsumX_rms vs run
χ² / ndf 2976 / 87
p0 1.272e+04 ± 9.897
14000
13500
13000
12500
12000
11500

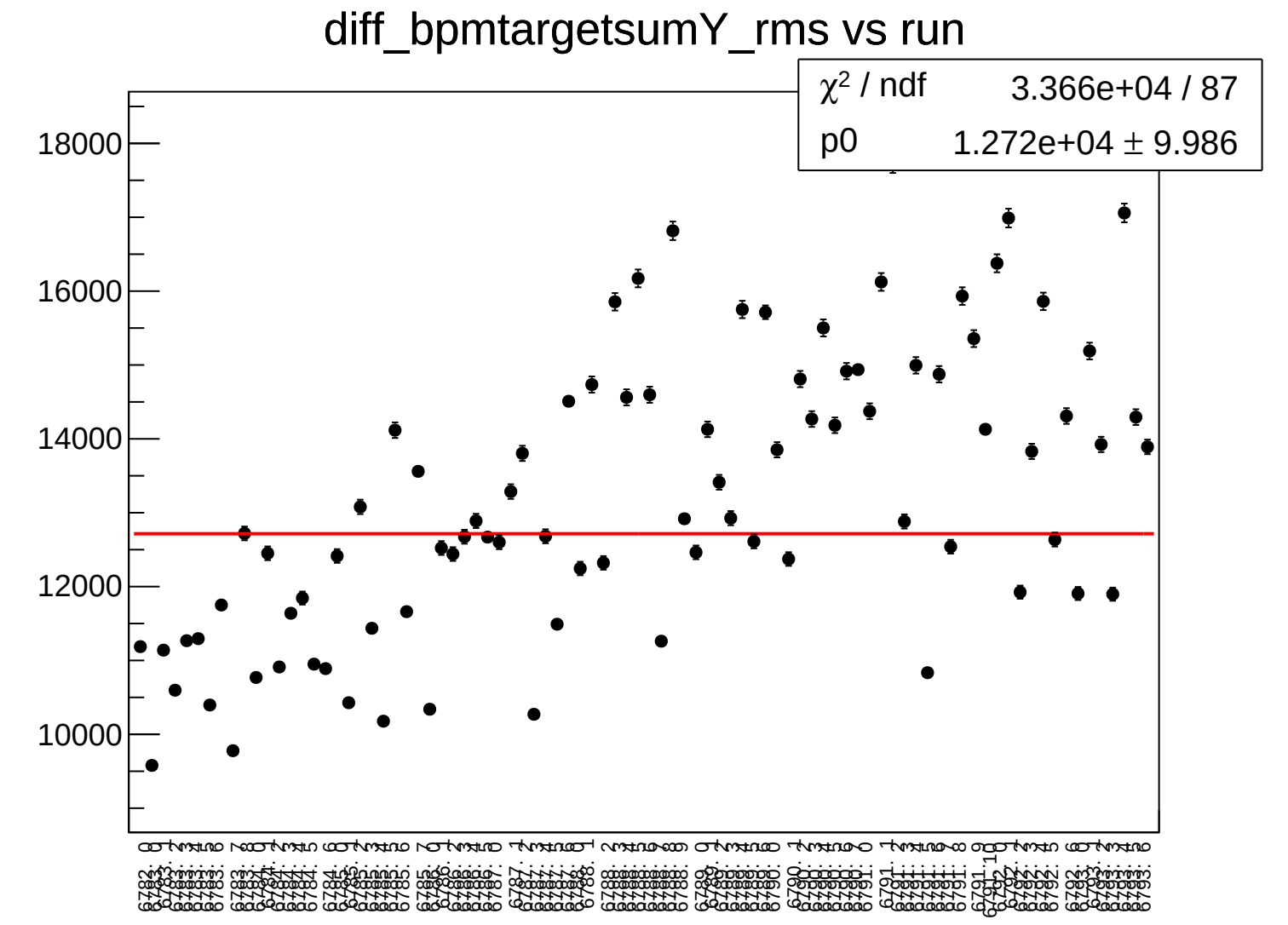

diff_bpmtargetdiffX_mean vs run
χ² / ndf 70.43 / 87
p0 1.029 ± 0.9412
pull
Entries 88
Mean −836.2
Std Dev 0

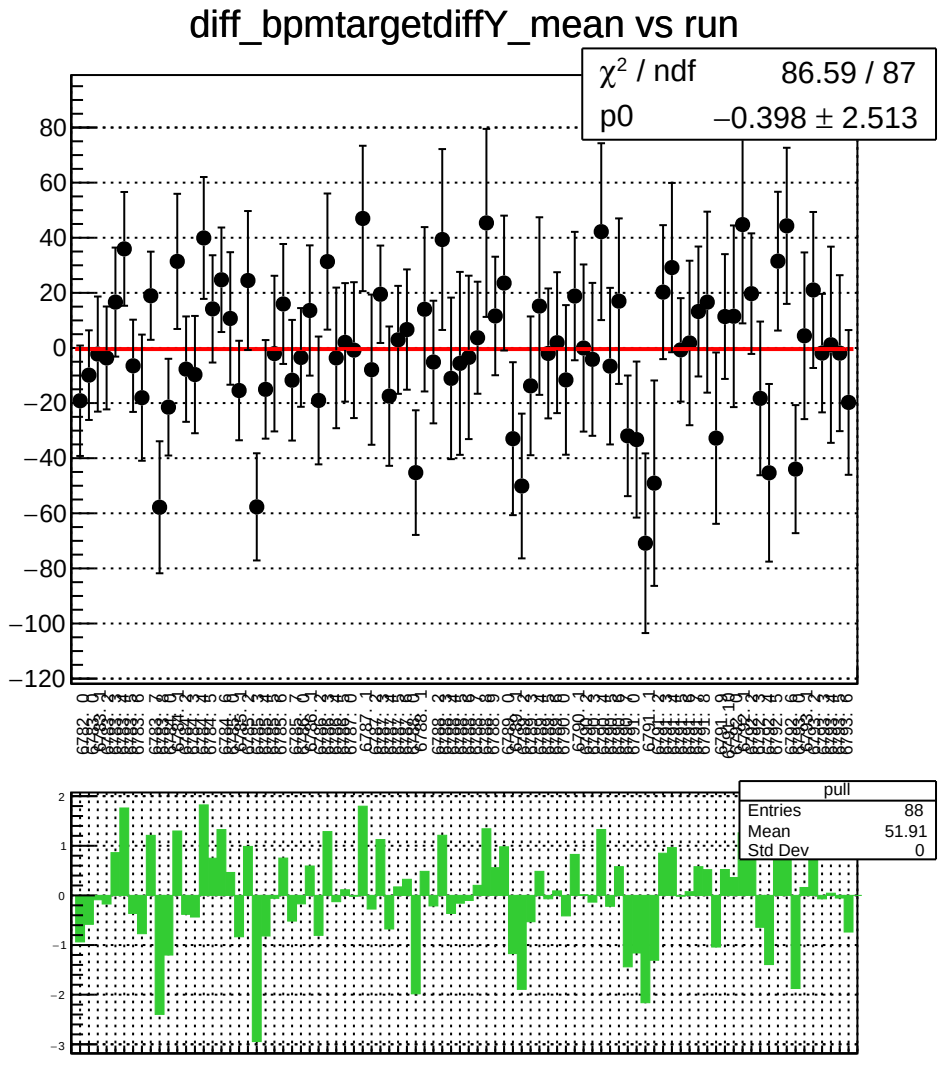

pull1D
Entries 88
Mean 0.008514
Std Dev 0.8946

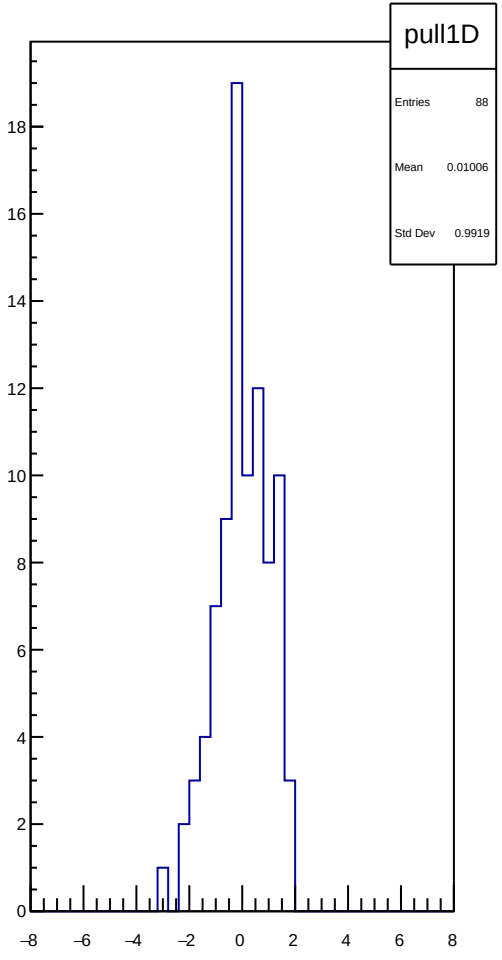

diff_bpmtargetdiffX_rms vs run
χ² / ndf 873.2 / 87
p0 855.9 ± 0.6655
940
920
900
880
860
840
820
800

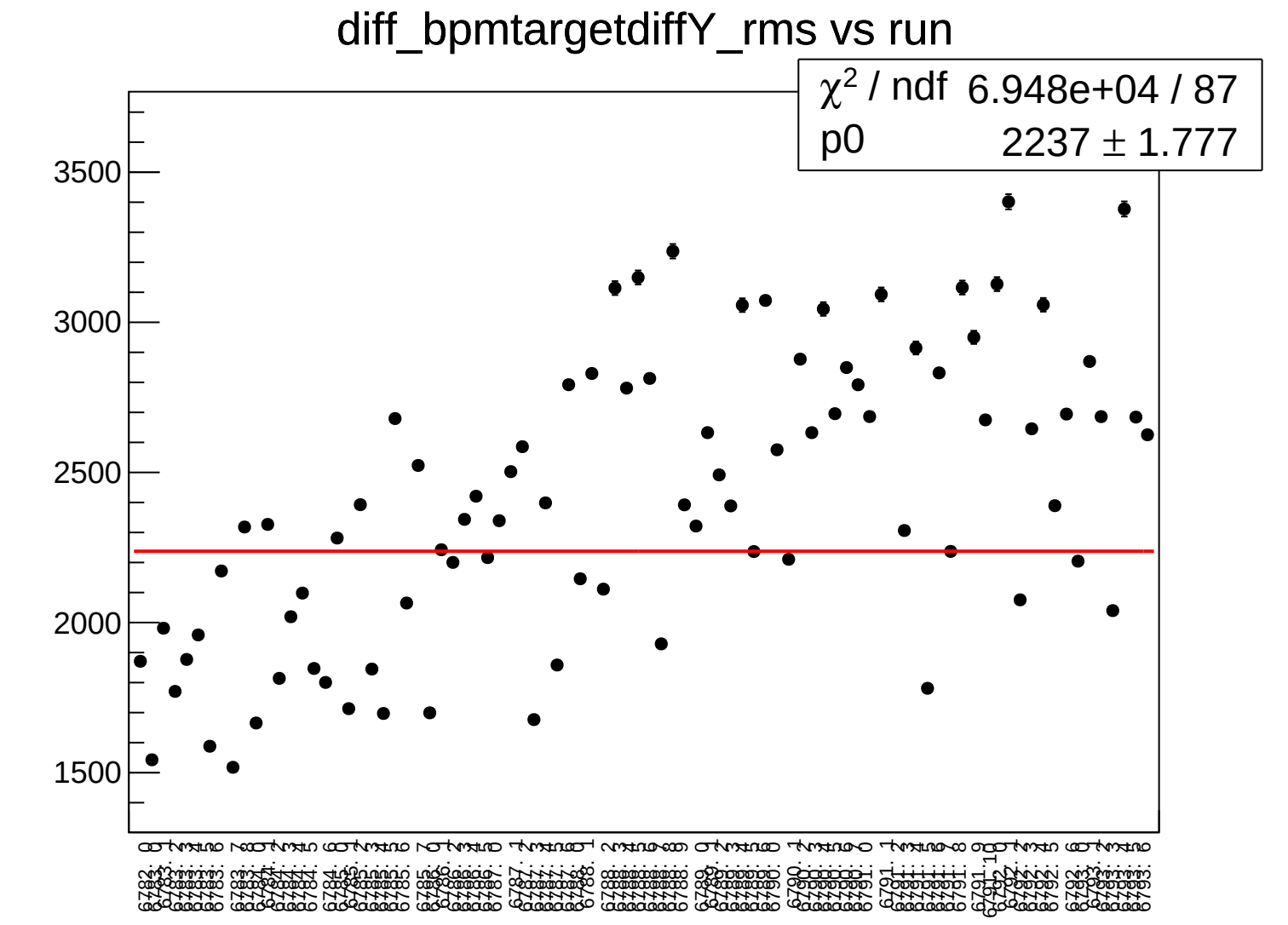

diff_bpmtargetsumY_mean vs run
χ² / ndf 94.36 / 87
p0 9.471 ± 14.12
pull
Entries 88
Mean −233.7
Std Dev 0

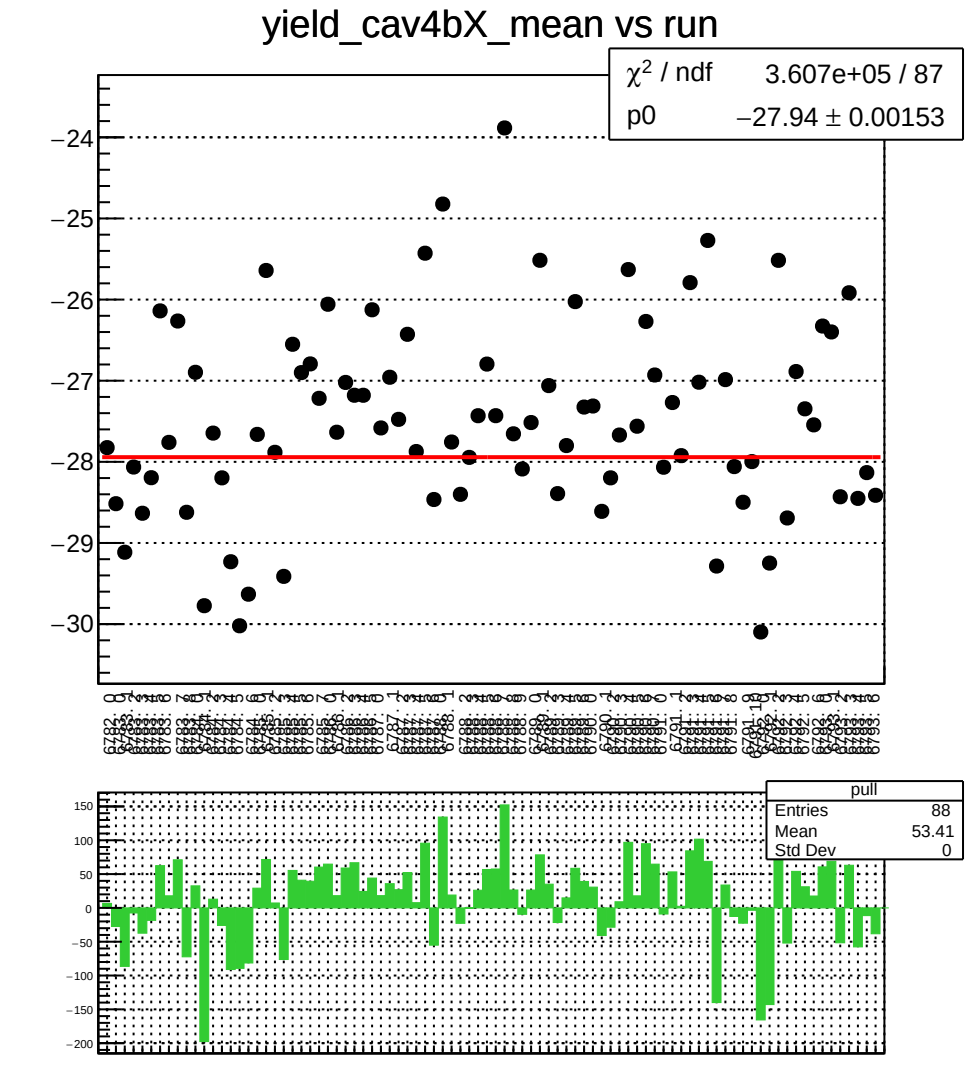

pull1D
Entries 88
Mean 0.007382
Std Dev 1.035

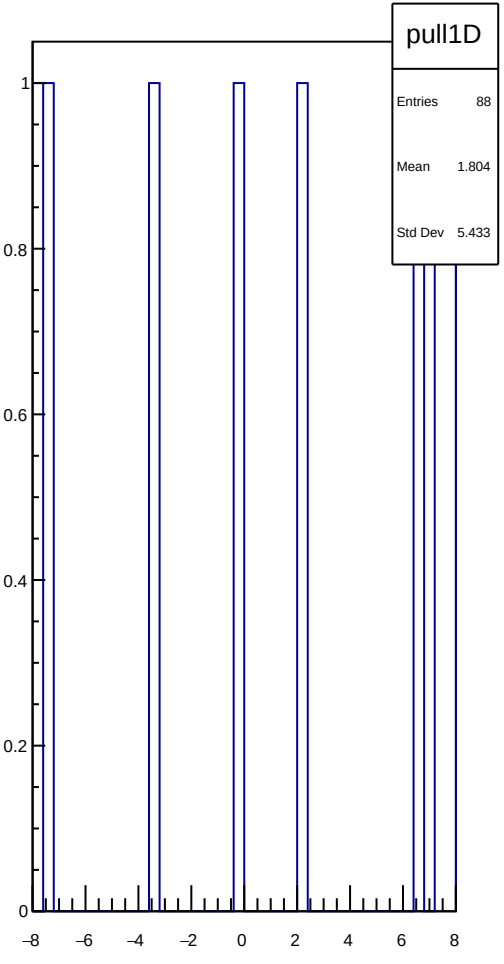

diff_bpmtargetsumY_rms vs run
χ² / ndf 3.366e+04 / 87
p0 1.272e+04 ± 9.986
18000
16000
14000
12000
10000

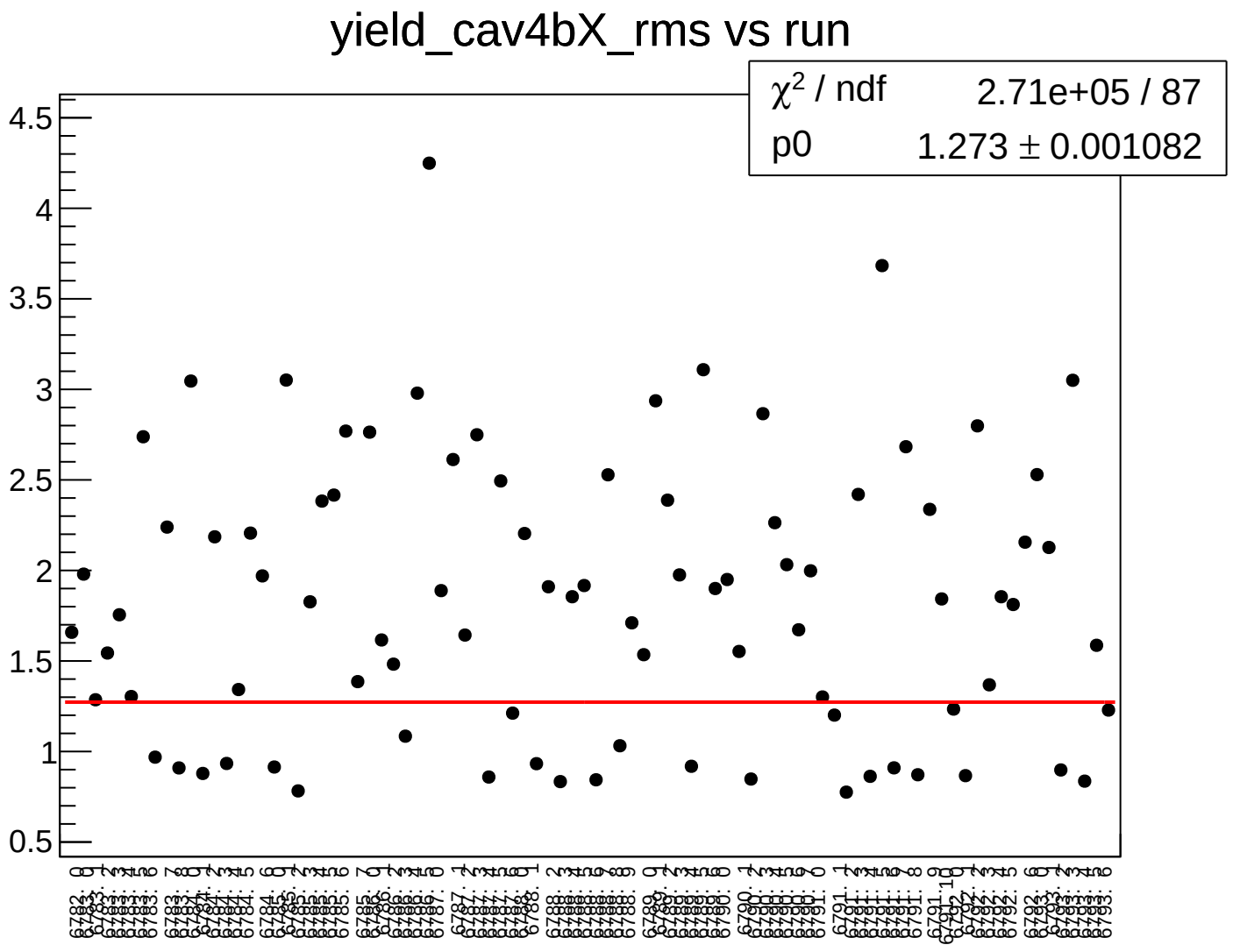

diff_bpmtargetdiffY_mean vs run
χ² / ndf 86.59 / 87
p0 −0.398 ± 2.513
pull
Entries 88
Mean 51.91
Std Dev 0

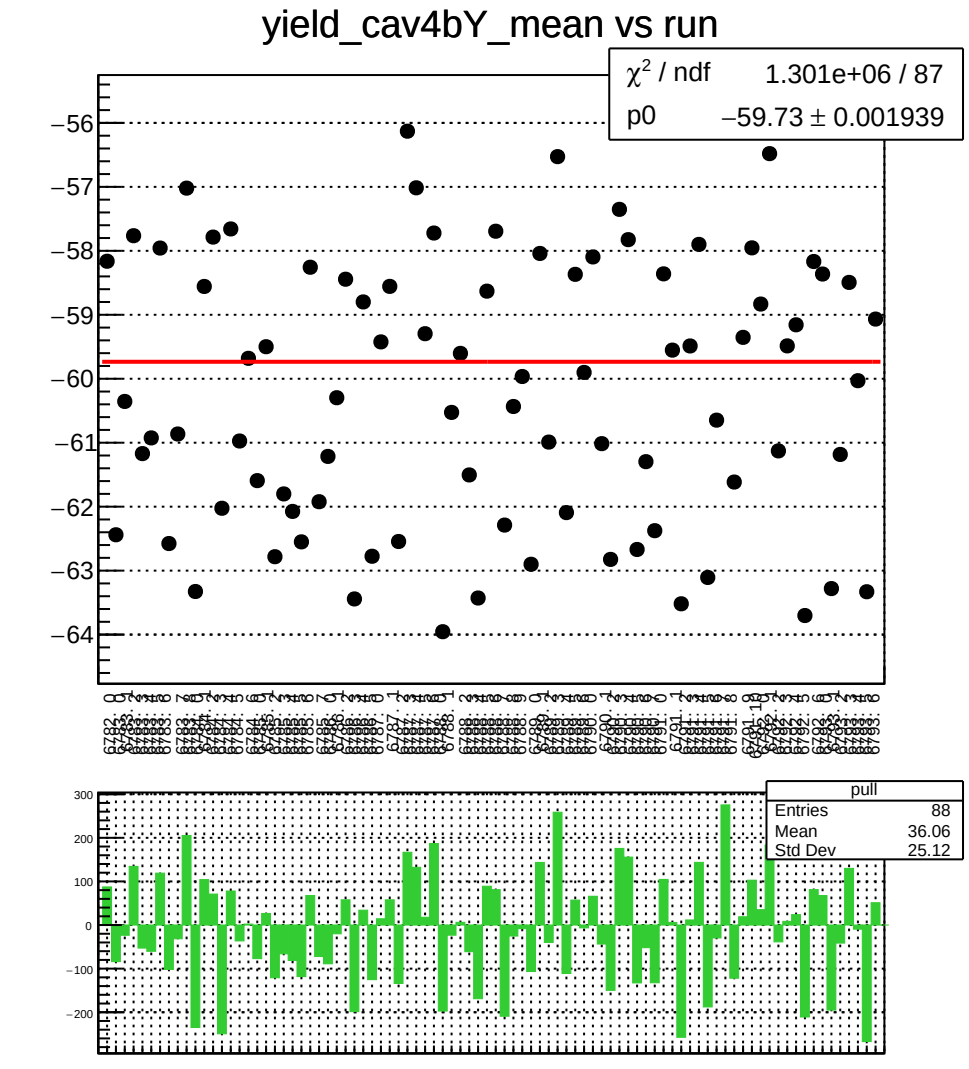

pull1D
Entries 88
Mean 0.01006
Std Dev 0.9919

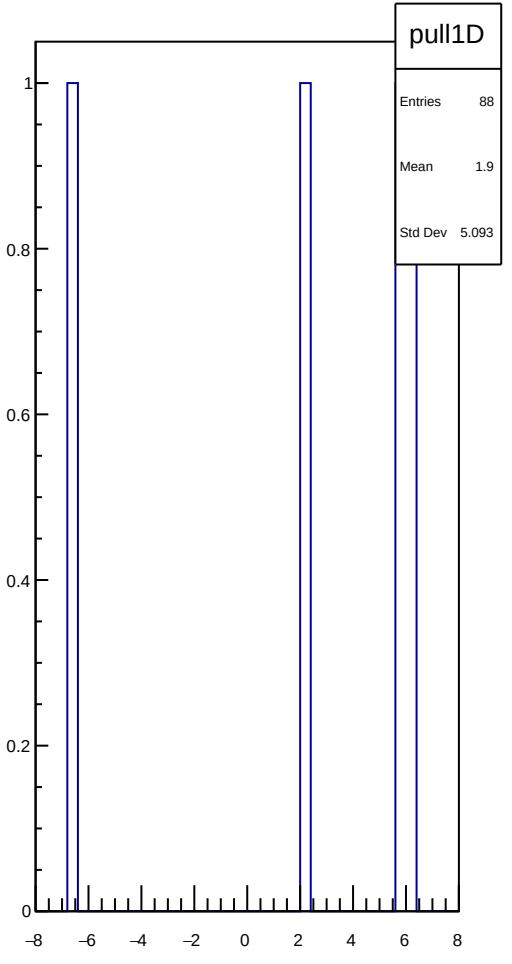

diff_bpmtargetdiffY_rms vs run
χ² / ndf 6.948e+04 / 87
p0 2237 ± 1.777
3500
3000
2500
2000
1500

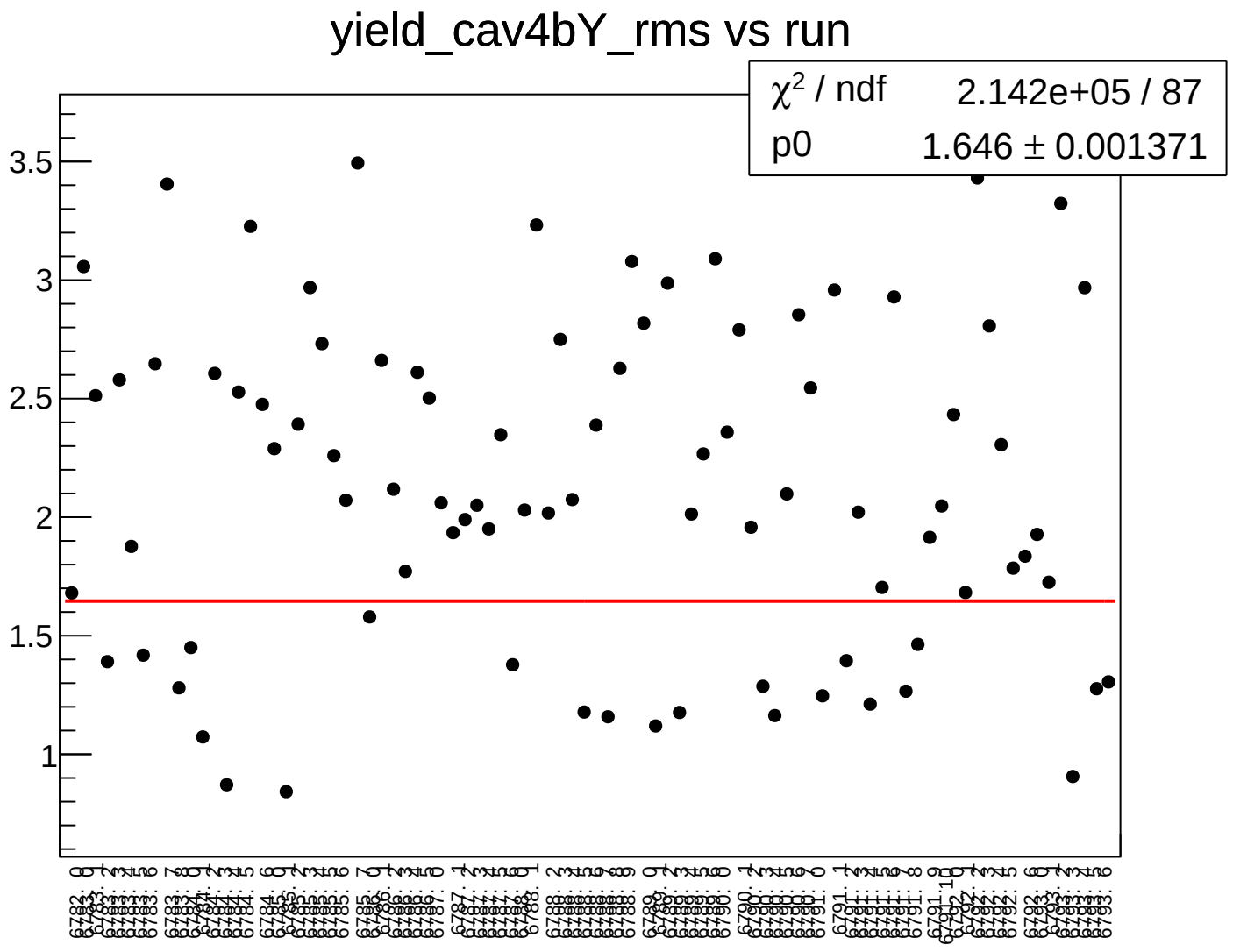

yield_cav4bX_mean vs run
χ² / ndf 3.607e+05 / 87
p0 −27.94 ± 0.00153
pull
Entries 88
Mean 53.41
Std Dev 0

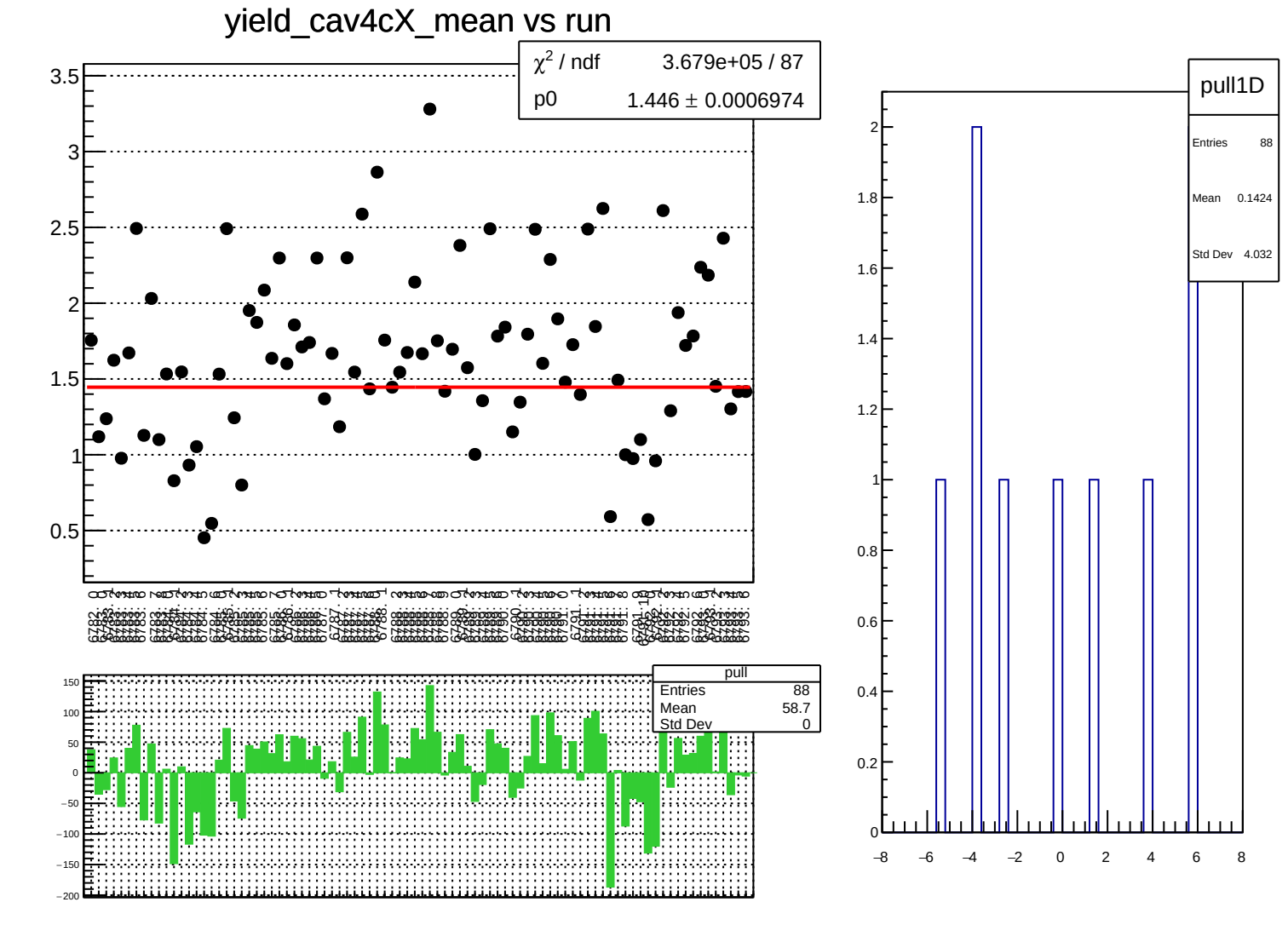

pull1D
Entries 88
Mean 1.804
Std Dev 5.433

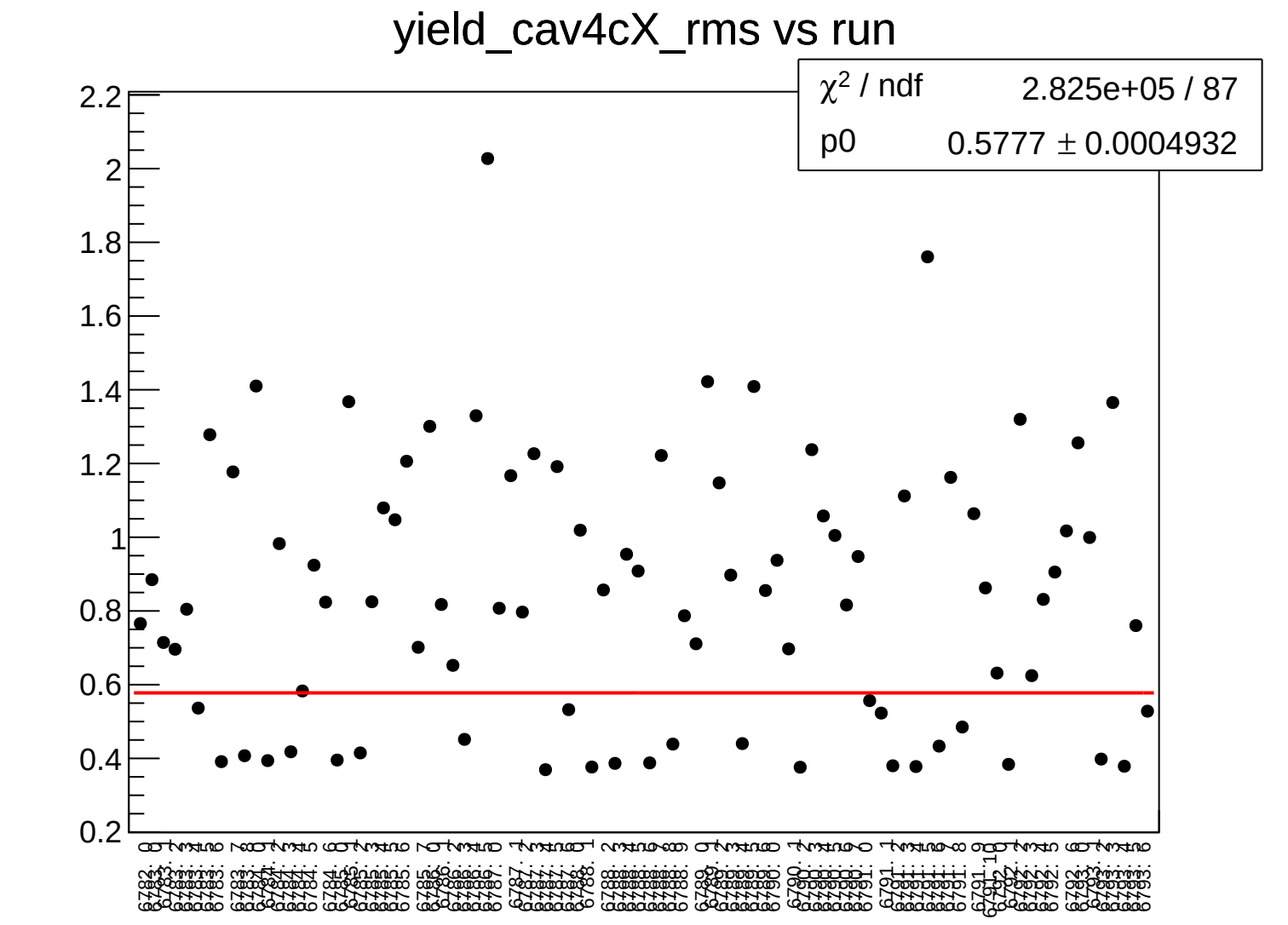

yield_cav4bX_rms vs run
χ^2 / ndf 2.71e+05 / 87
p0 1.273 ± 0.001082
4.5
4
3.5
3
2.5
2
1.5
1
0.5

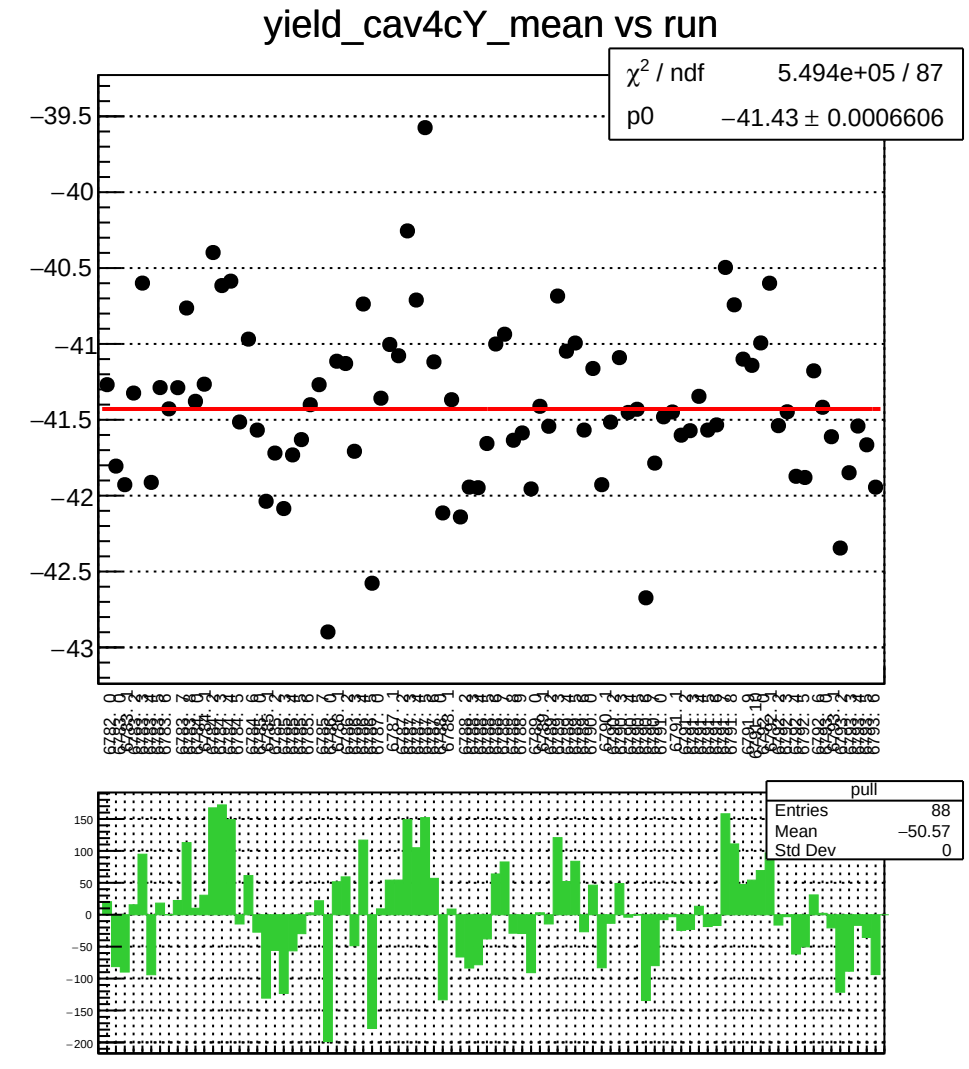

yield_cav4bY_mean vs run
χ² / ndf 1.301e+06 / 87
p0 −59.73 ± 0.001939
−56
−57
−58
−59
−60
−61
−62
−63
−64
pull
Entries 88
Mean 36.06
Std Dev 25.12
300
200
100
0
−100
−200

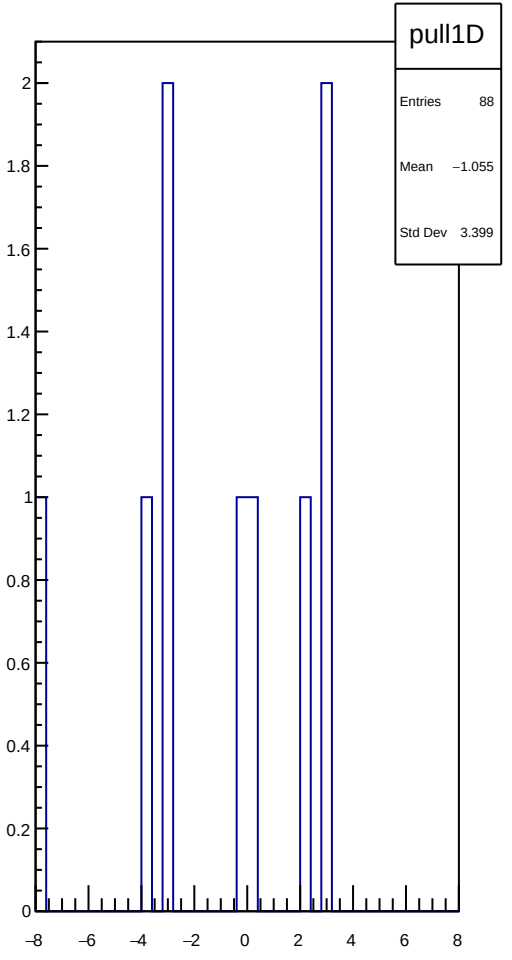

pull1D
Entries 88
Mean 1.9
Std Dev 5.093
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

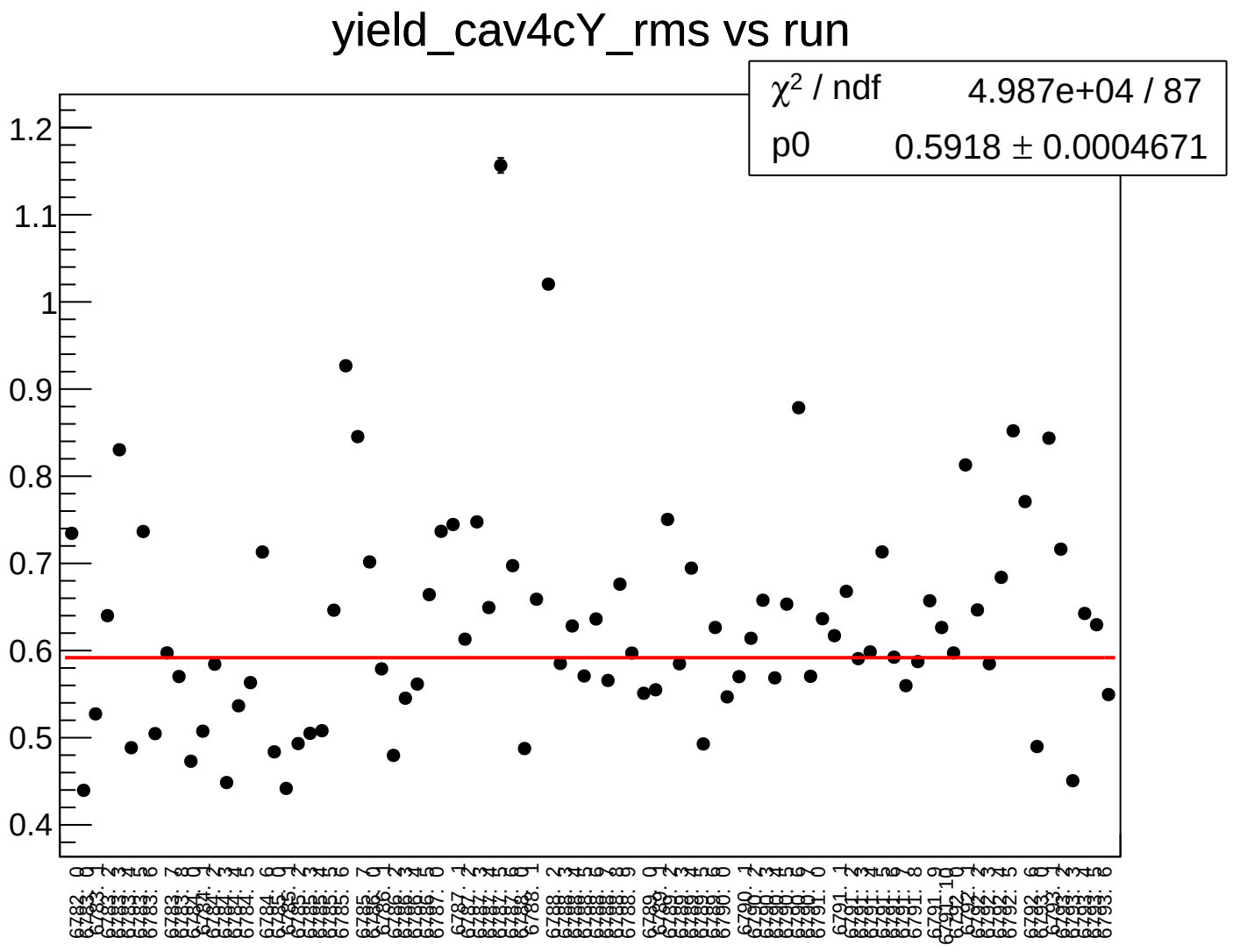

yield_cav4bY_rms vs run
χ² / ndf 2.142e+05 / 87
p0 1.646 ± 0.001371
3.5
3
2.5
2
1.5
1

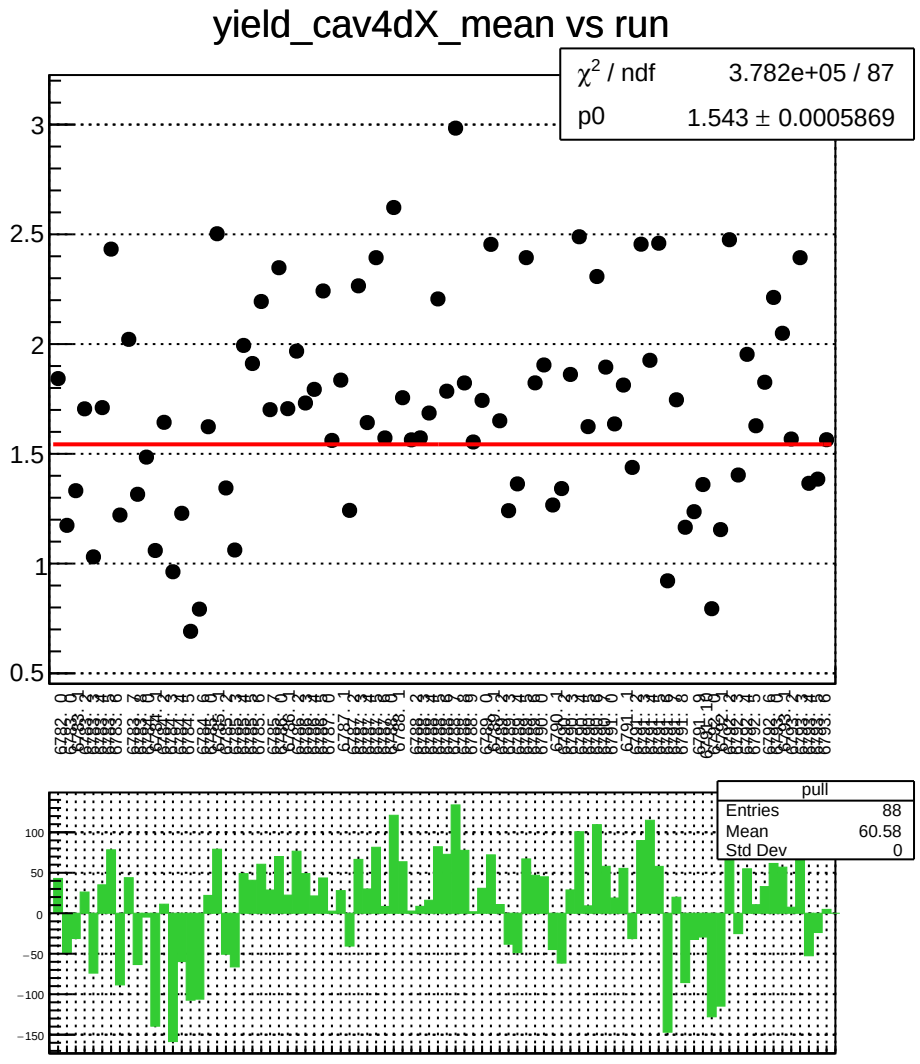

yield_cav4cX_mean vs run
χ² / ndf 3.679e+05 / 87
p0 1.446 ± 0.0006974
pull
Entries 88
Mean 58.7
Std Dev 0
pull1D
Entries 88
Mean 0.1424
Std Dev 4.032

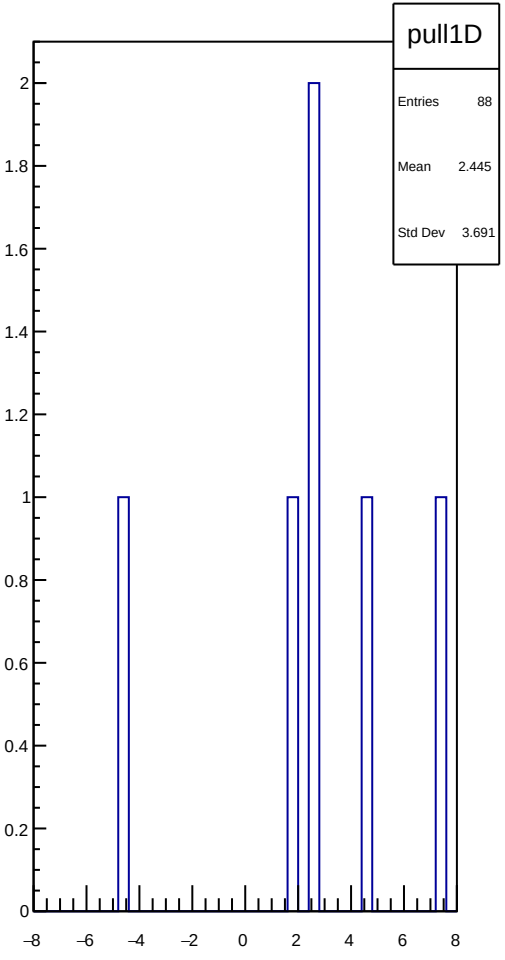

yield_cav4cX_rms vs run
χ² / ndf 2.825e+05 / 87
p0 0.5777 ± 0.0004932
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

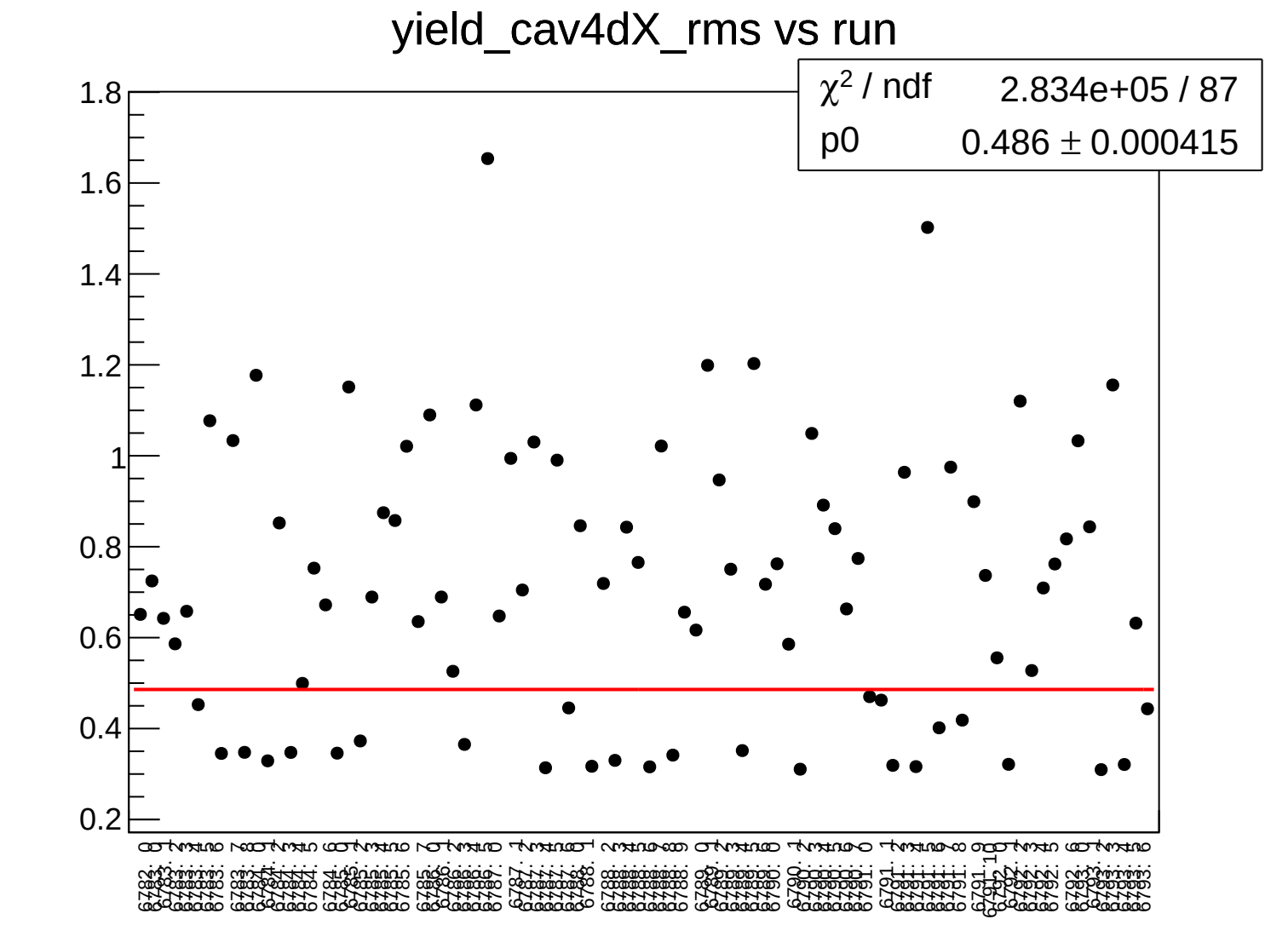

yield_cav4cY_mean vs run
χ² / ndf 5.494e+05 / 87
p0 −41.43 ± 0.0006606
−39.5
−40
−40.5
−41
−41.5
−42
−42.5
−43
pull
Entries 88
Mean −50.57
Std Dev 0
150
100
50
0
−50
−100
−150
−200

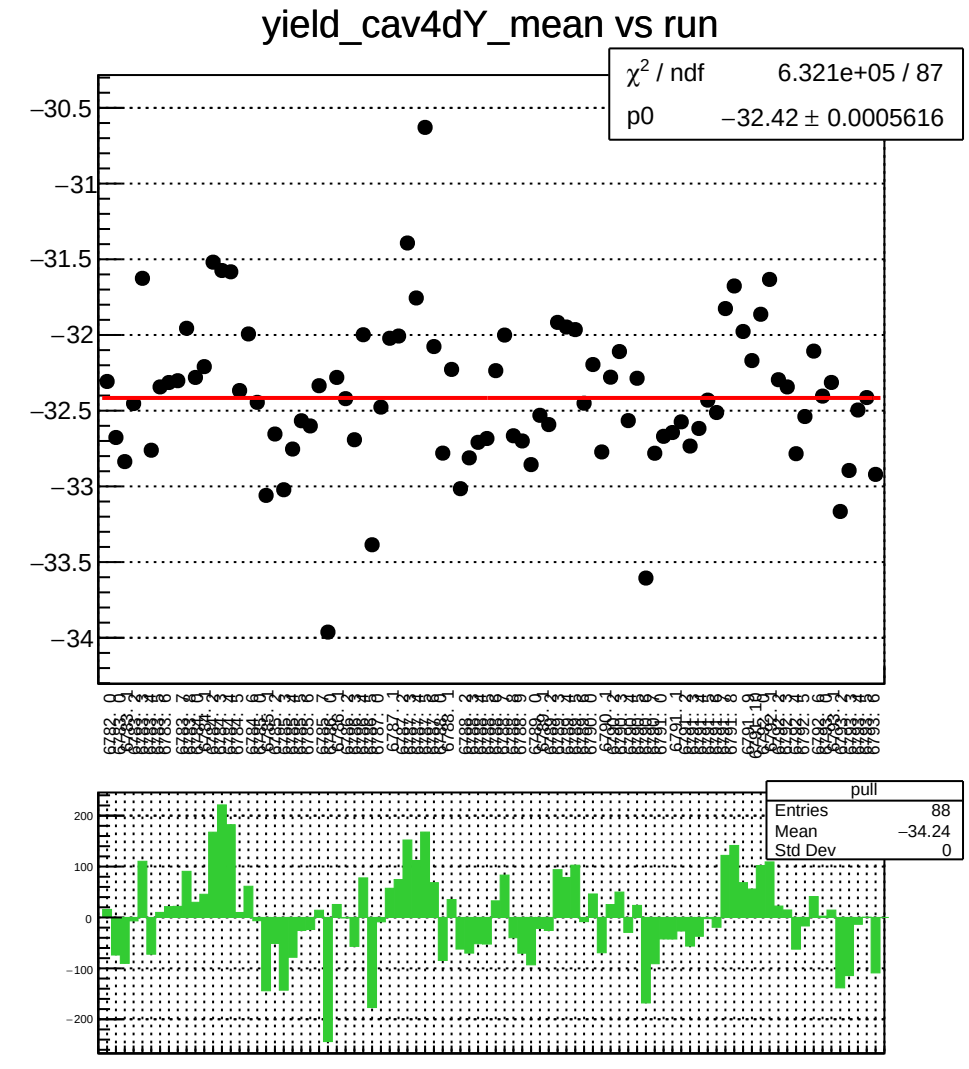

pull1D
Entries 88
Mean −1.055
Std Dev 3.399
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

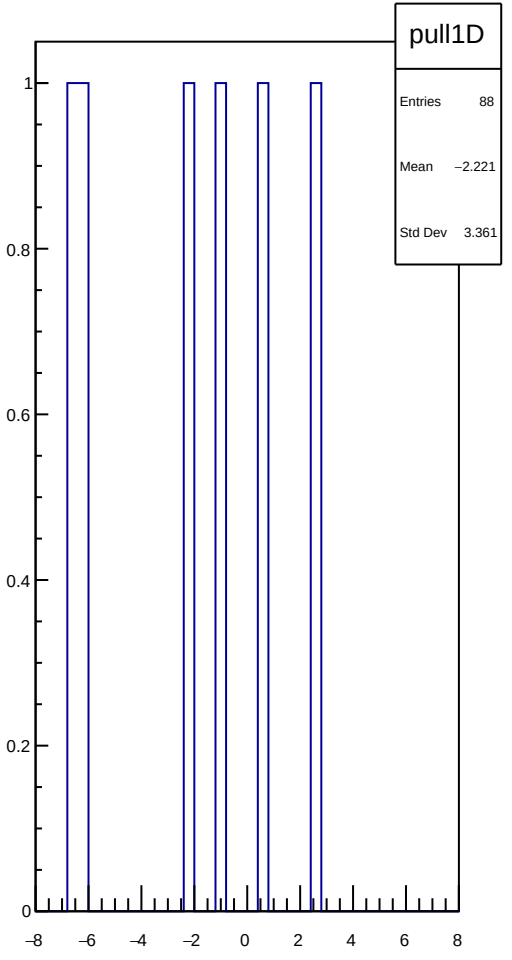

yield_cav4cY_rms vs run
χ² / ndf 4.987e+04 / 87
p0 0.5918 ± 0.0004671
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4

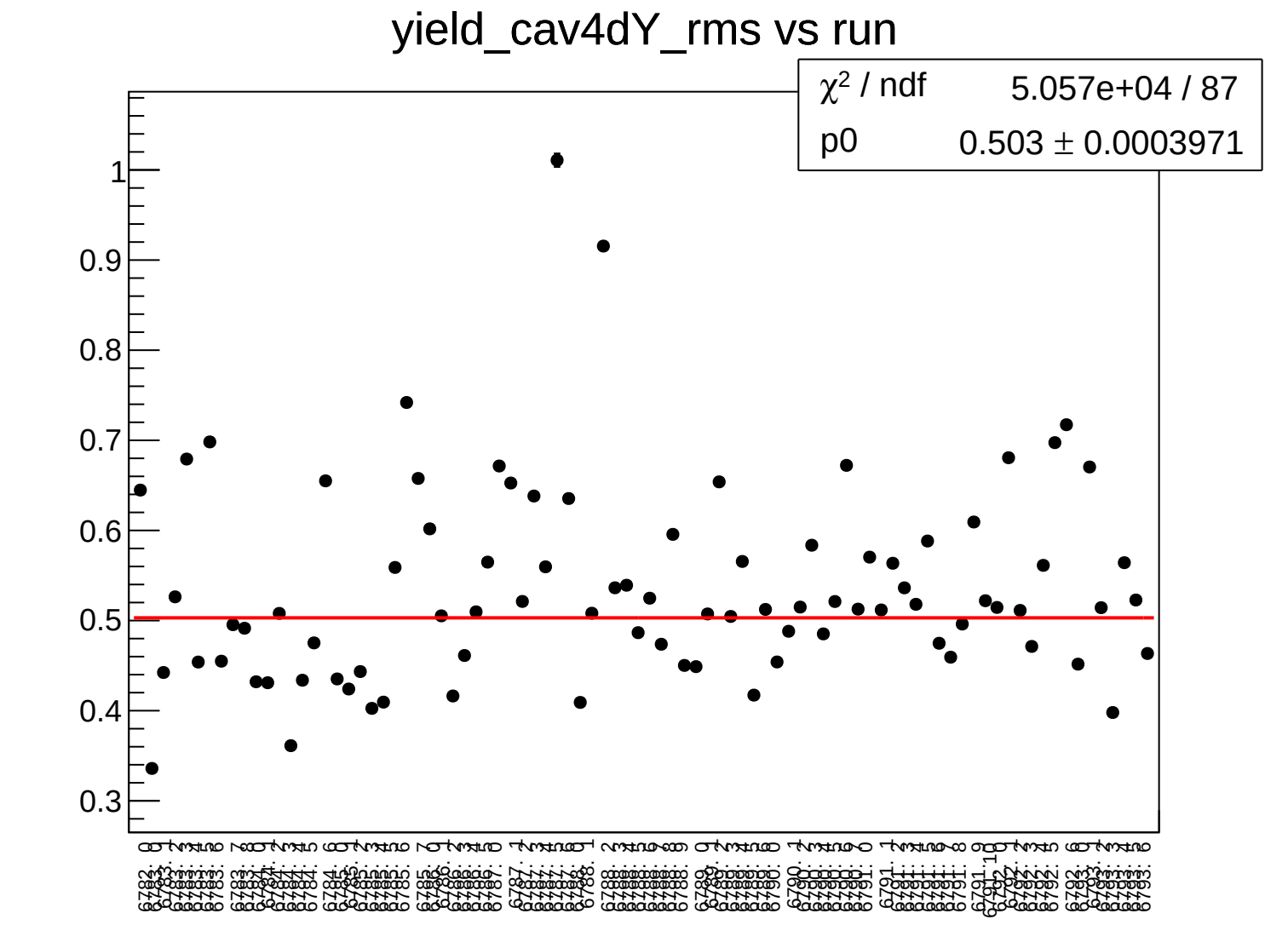

yield_cav4dX_mean vs run
χ² / ndf 3.782e+05 / 87
p0 1.543 ± 0.0005869
pull
Entries 88
Mean 60.58
Std Dev 0

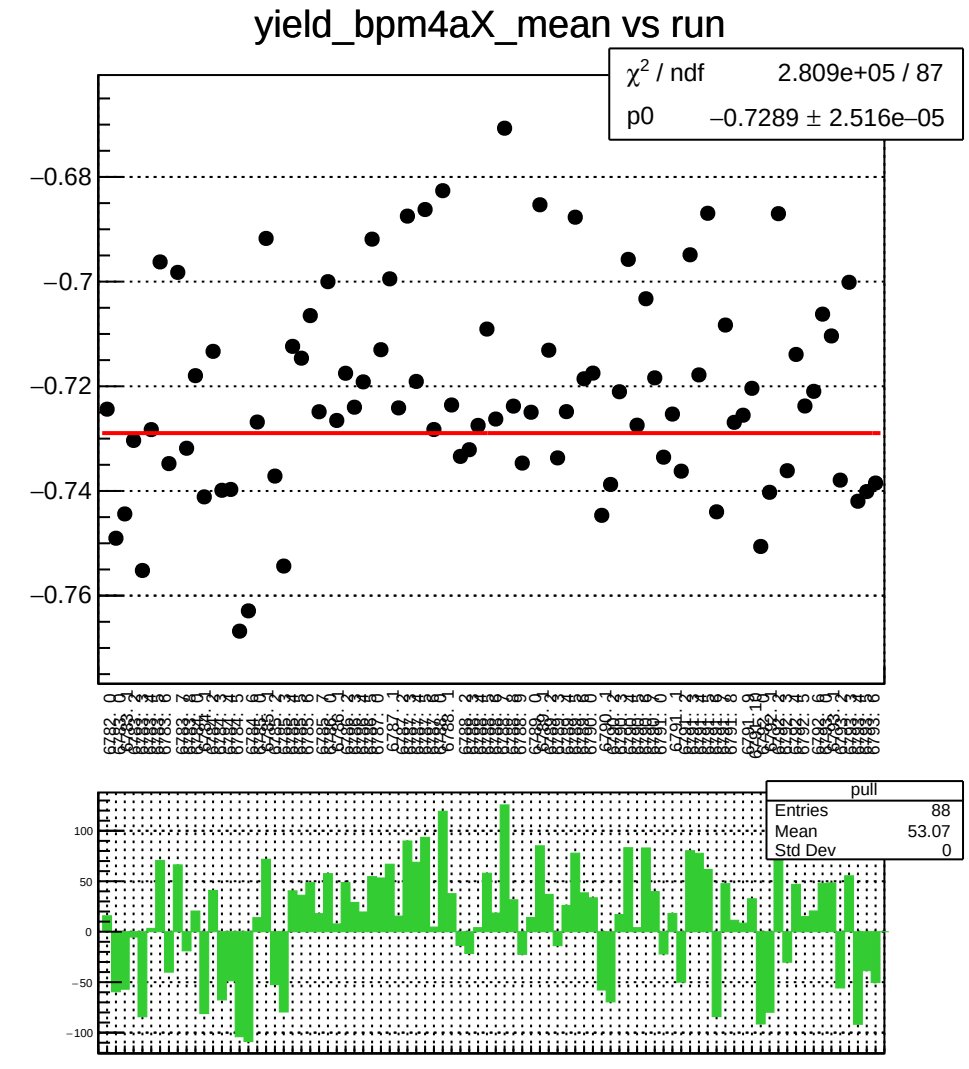

pull1D
Entries 88
Mean 2.445
Std Dev 3.691

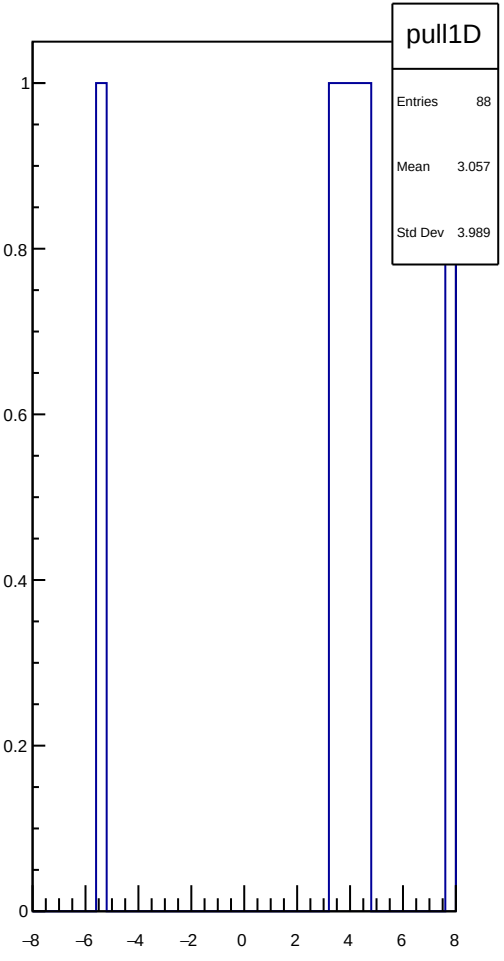

yield_cav4dX_rms vs run
χ^2 / ndf 2.834e+05 / 87
p0 0.486 ± 0.000415
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

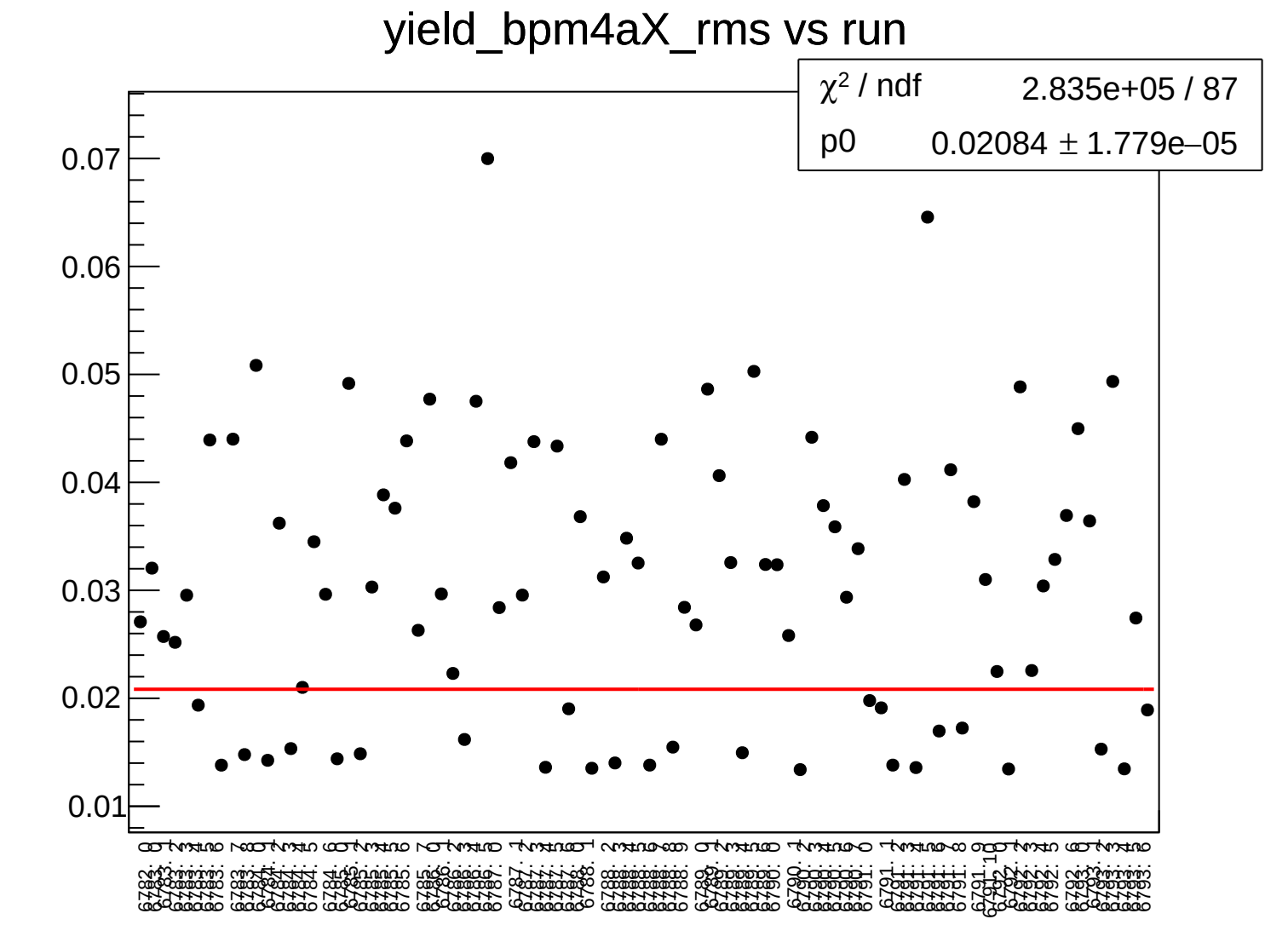

yield_cav4dY_mean vs run
χ² / ndf 6.321e+05 / 87
p0 −32.42 ± 0.0005616
−30.5
−31
−31.5
−32
−32.5
−33
−33.5
−34
pull
Entries 88
Mean −34.24
Std Dev 0
200
100
0
−100
−200

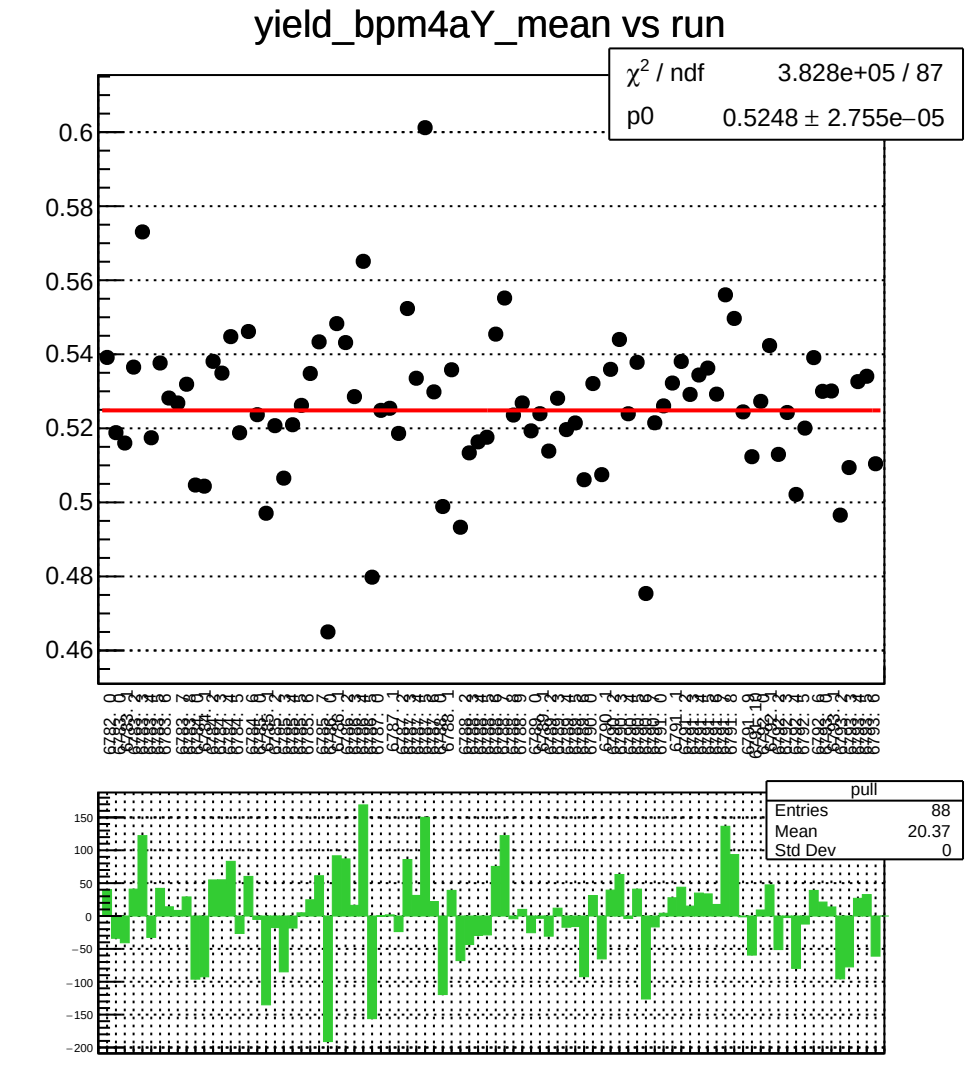

pull1D
Entries 88
Mean −2.221
Std Dev 3.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

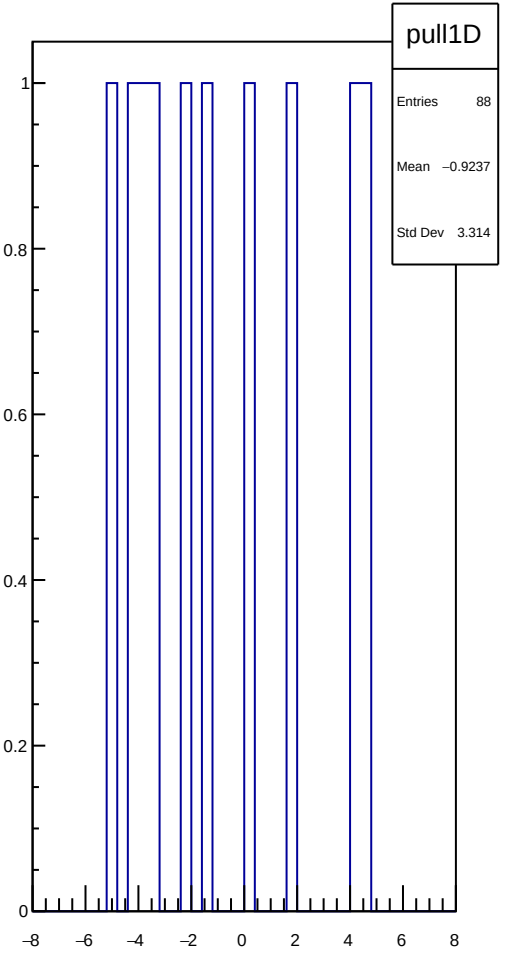

yield_cav4dY_rms vs run
χ² / ndf 5.057e+04 / 87
p0 0.503 ± 0.0003971
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

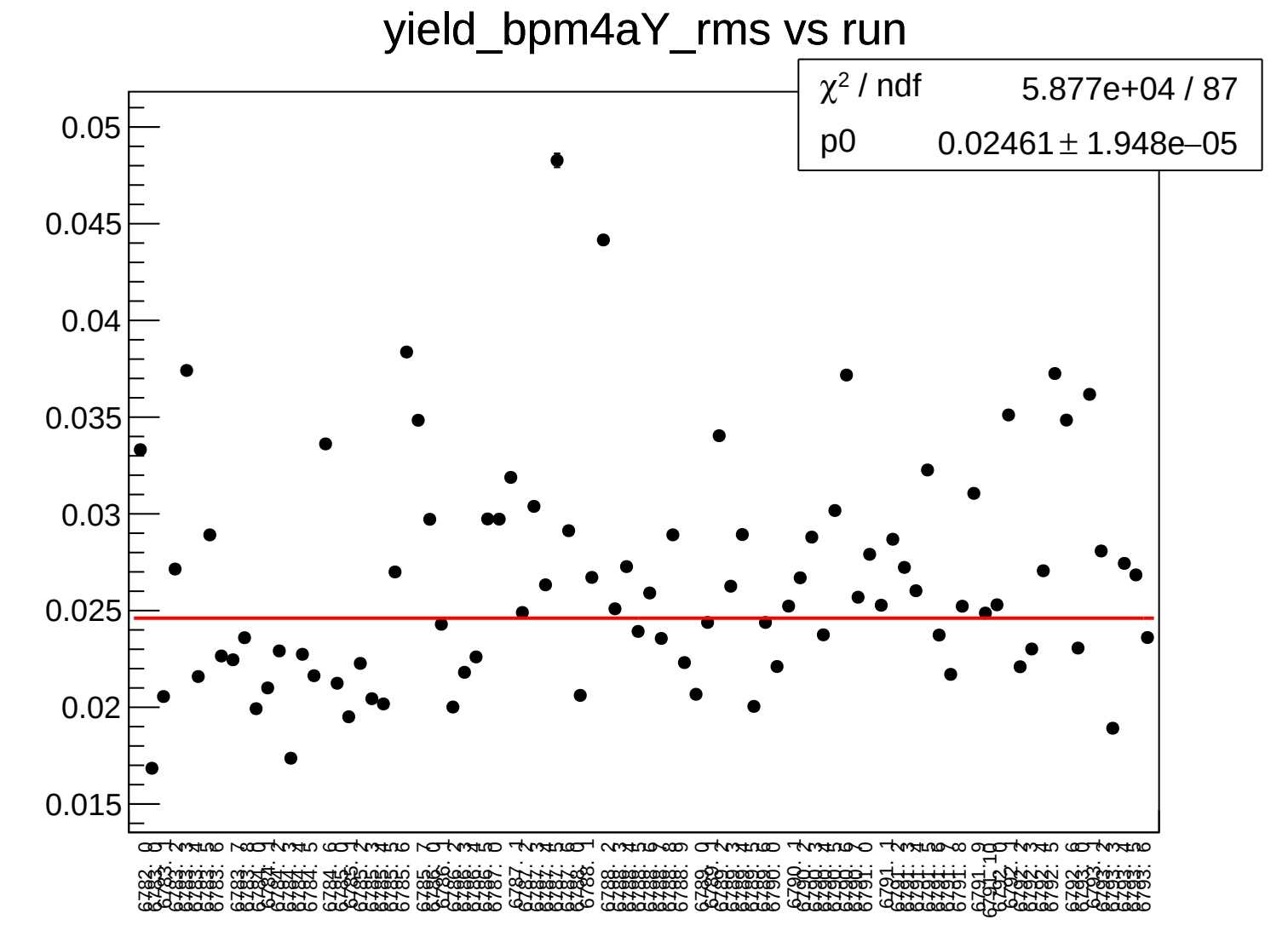

yield_bpm4aX_mean vs run
χ² / ndf 2.809e+05 / 87
p0 −0.7289 ± 2.516e−05
−0.68
−0.7
−0.72
−0.74
−0.76
pull
Entries 88
Mean 53.07
Std Dev 0
100
50
0
−50
−100

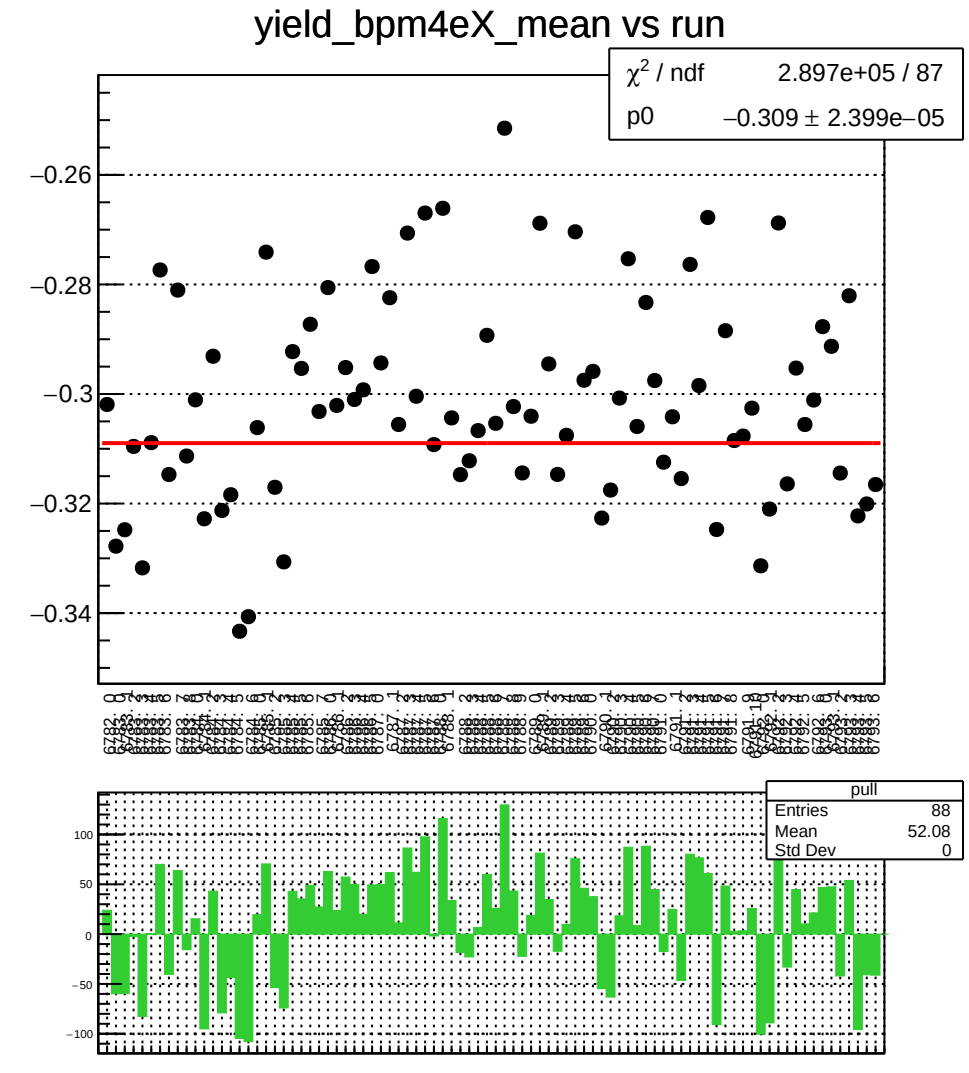

pull1D
Entries 88
Mean 3.057
Std Dev 3.989
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

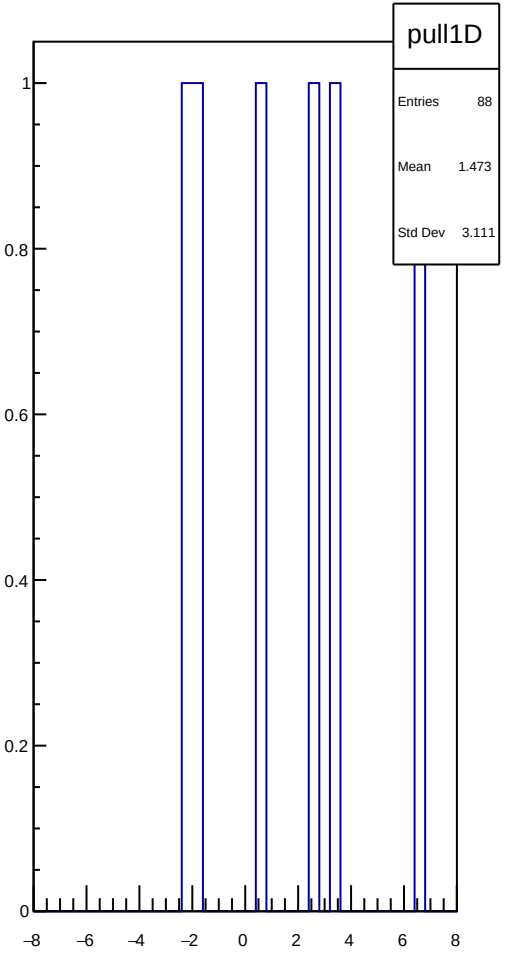

yield_bpm4aX_rms vs run
χ² / ndf 2.835e+05 / 87
p0 0.02084 ± 1.779e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

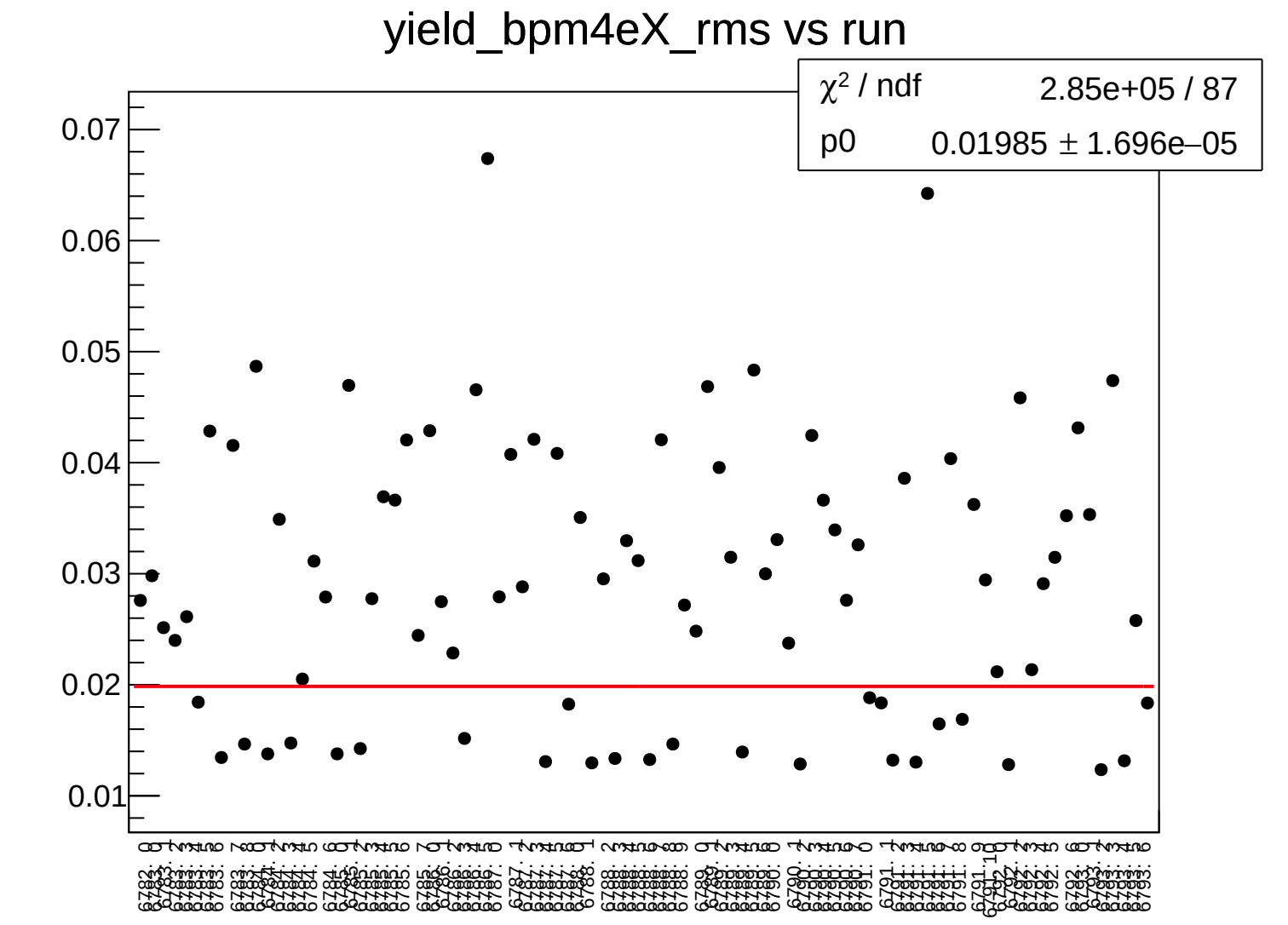

yield_bpm4aY_mean vs run
χ² / ndf 3.828e+05 / 87
p0 0.5248 ± 2.755e−05
pull
Entries 88
Mean 20.37
Std Dev 0

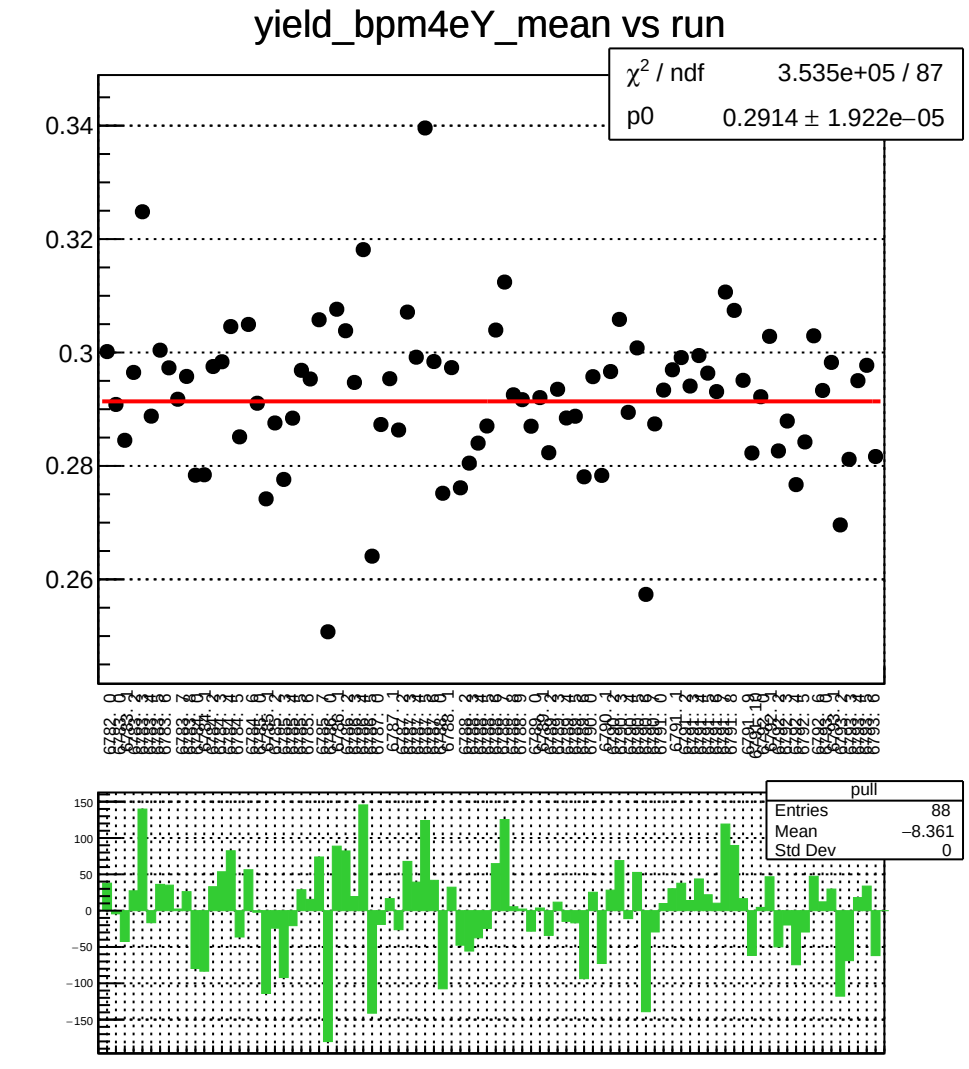

pull1D
Entries 88
Mean −0.9237
Std Dev 3.314

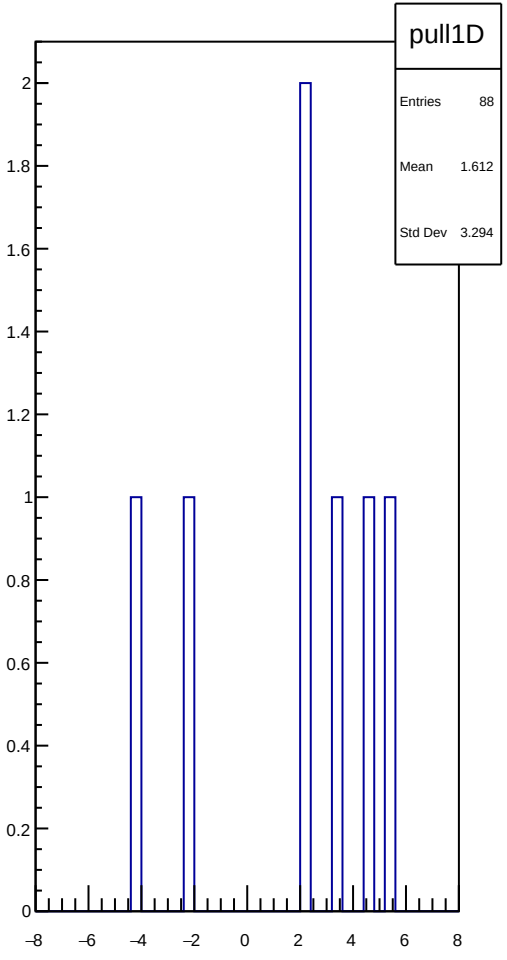

yield_bpm4aY_rms vs run
χ² / ndf 5.877e+04 / 87
p0 0.02461 ± 1.948e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

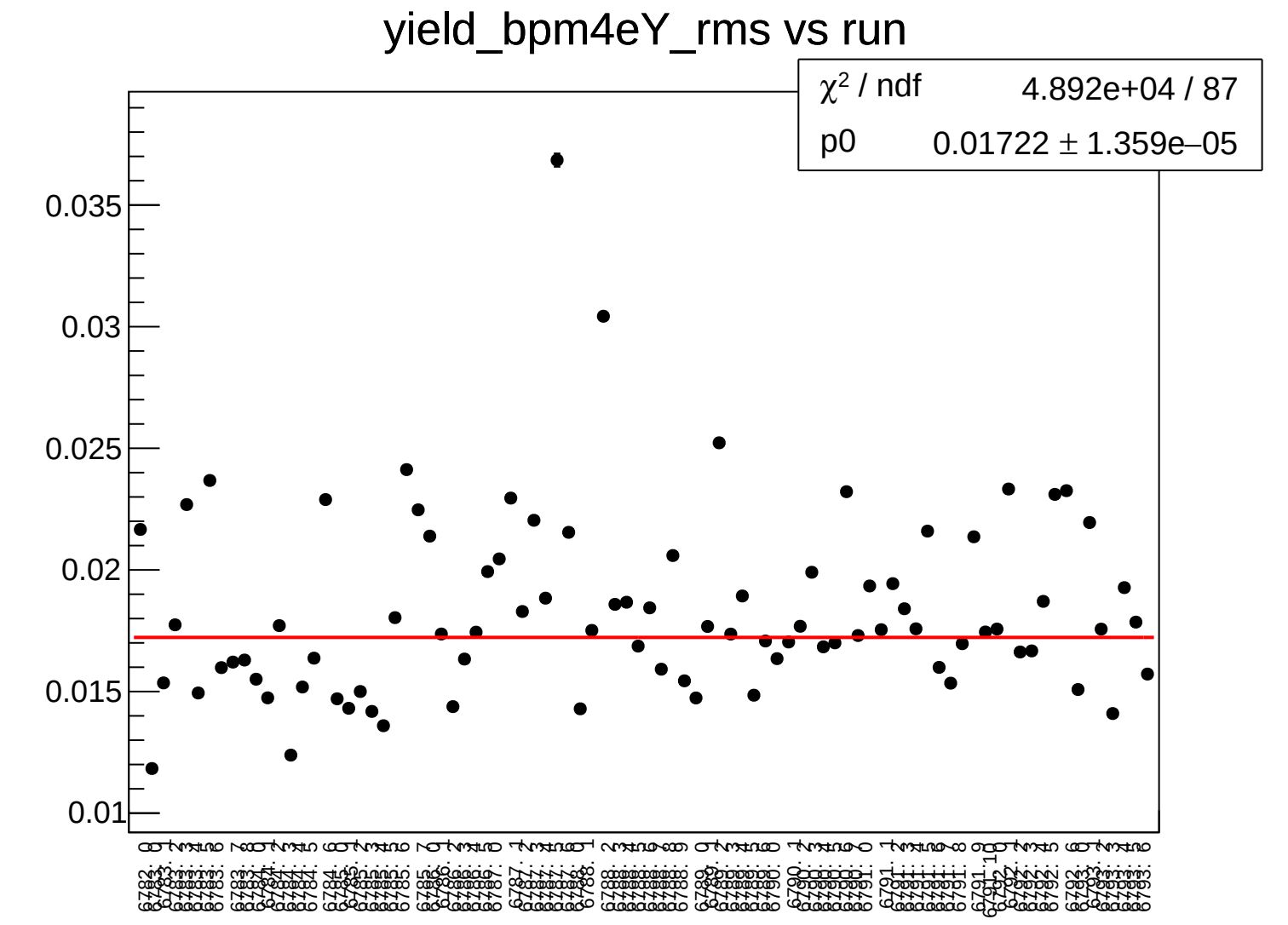

yield_bpm4eX_mean vs run
χ² / ndf 2.897e+05 / 87
p0 −0.309 ± 2.399e−05
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 88
Mean 52.08
Std Dev 0
100
50
0
−50
−100

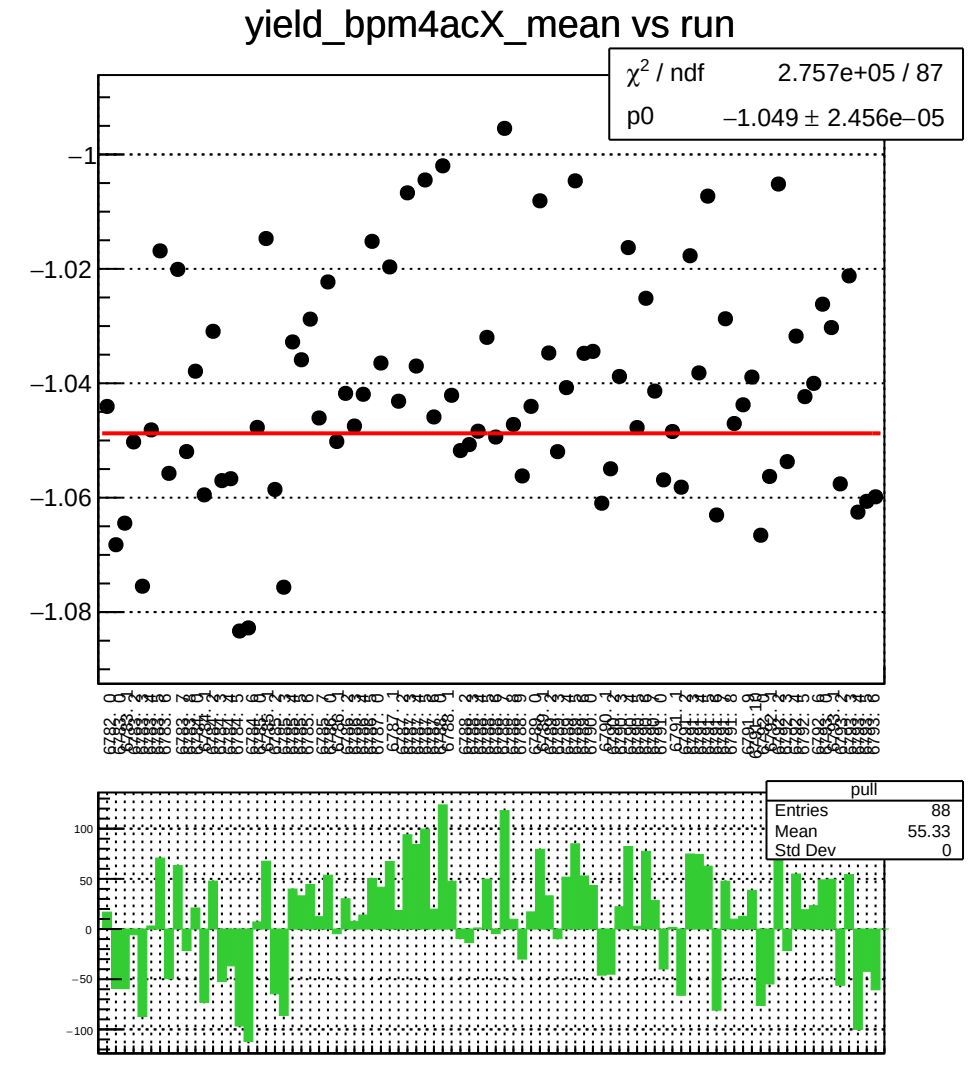

pull1D
Entries 88
Mean 1.473
Std Dev 3.111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

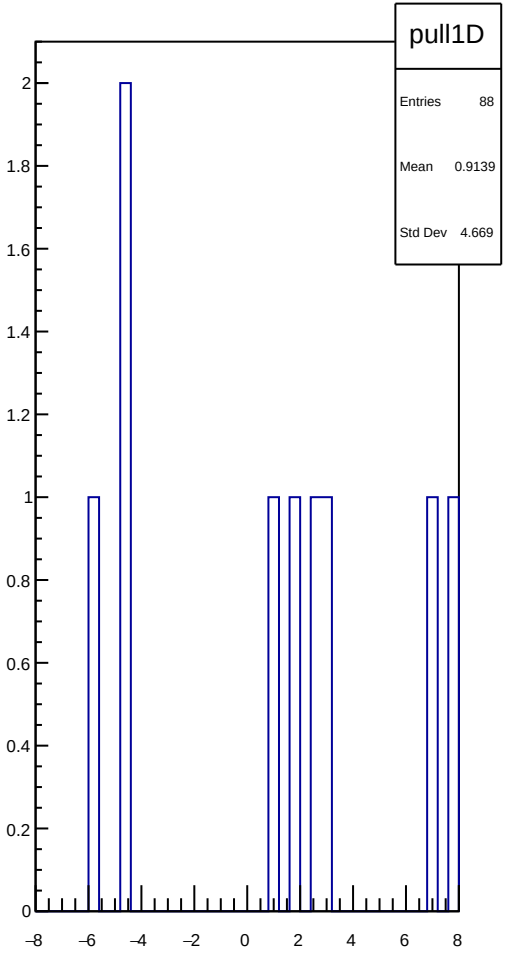

yield_bpm4eX_rms vs run
χ² / ndf 2.85e+05 / 87
p0 0.01985 ± 1.696e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

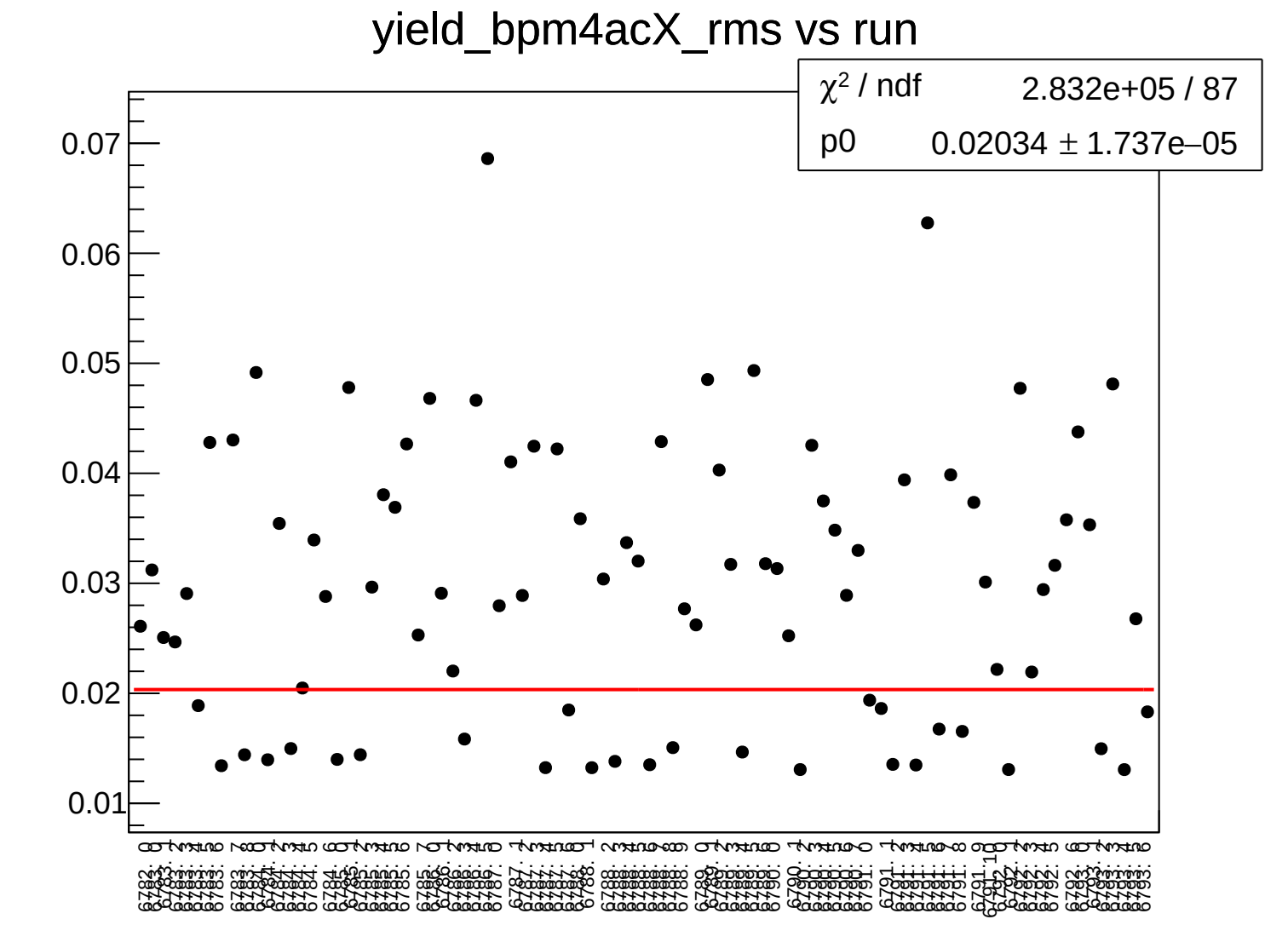

yield_bpm4eY_mean vs run
χ² / ndf 3.535e+05 / 87
p0 0.2914 ± 1.922e−05
0.34
0.32
0.3
0.28
0.26
pull
Entries 88
Mean −8.361
Std Dev 0
150
100
50
0
−50
−100
−150

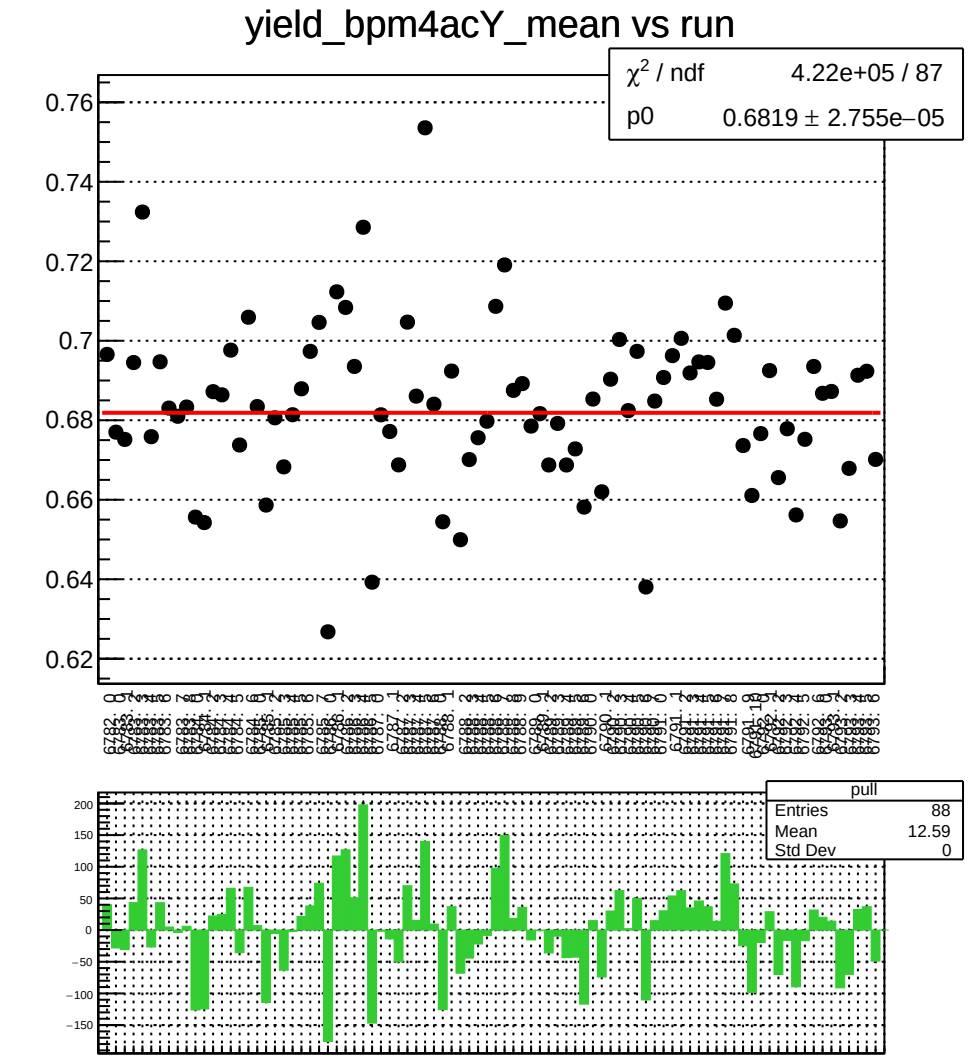

pull1D
Entries 88
Mean 1.612
Std Dev 3.294
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

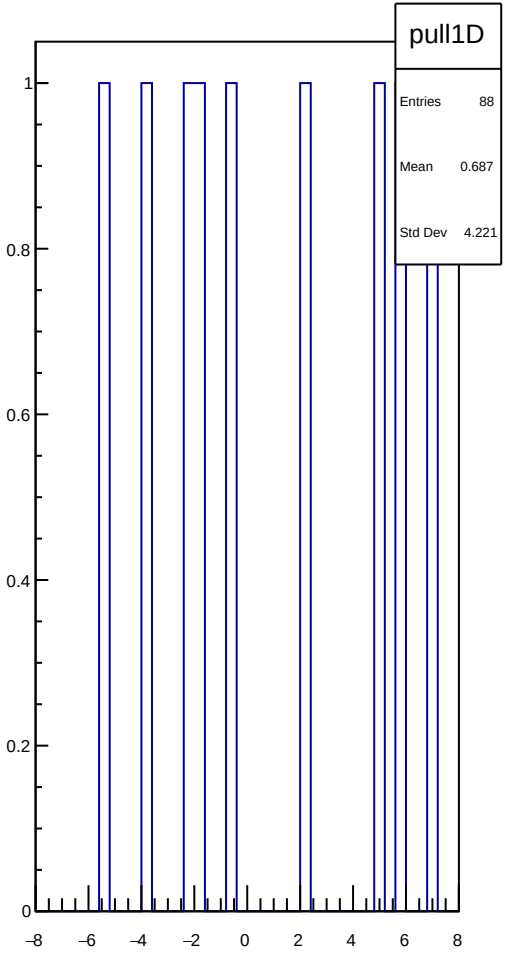

yield_bpm4eY_rms vs run
χ² / ndf 4.892e+04 / 87
p0 0.01722 ± 1.359e−05
0.035
0.03
0.025
0.02
0.015
0.01

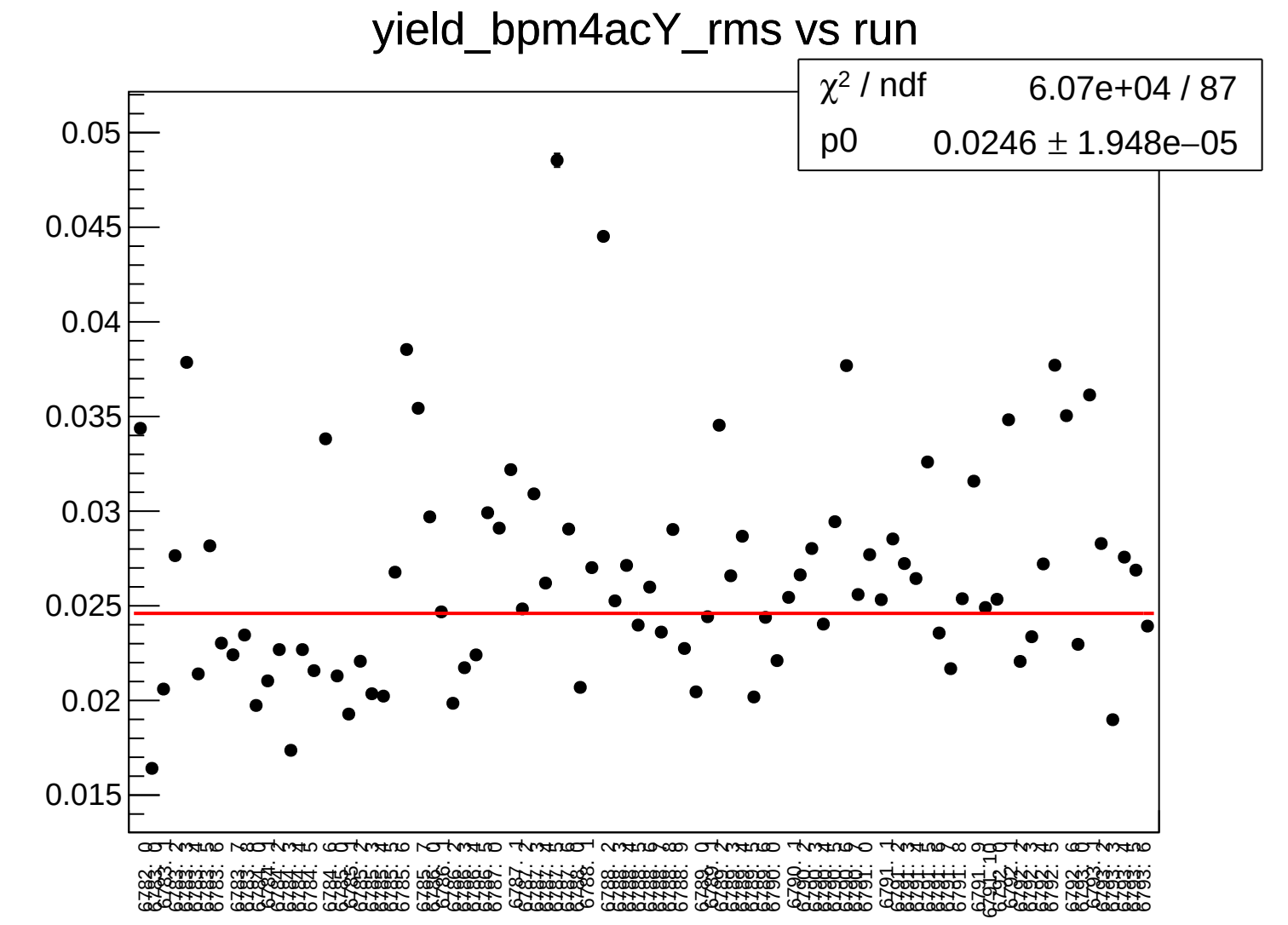

yield_bpm4acX_mean vs run
χ² / ndf 2.757e+05 / 87
p0 −1.049 ± 2.456e−05
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 88
Mean 55.33
Std Dev 0
100
50
0
−50
−100

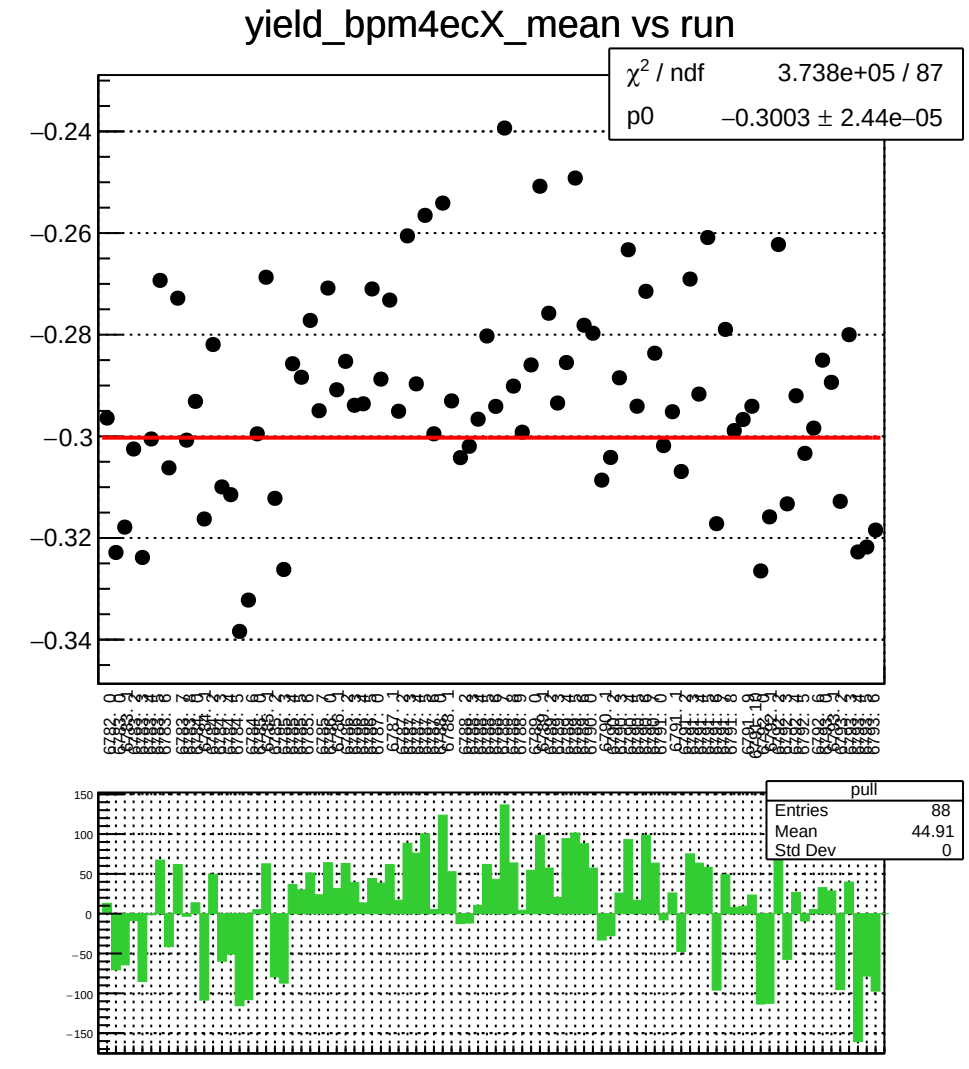

pull1D
Entries 88
Mean 0.9139
Std Dev 4.669
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

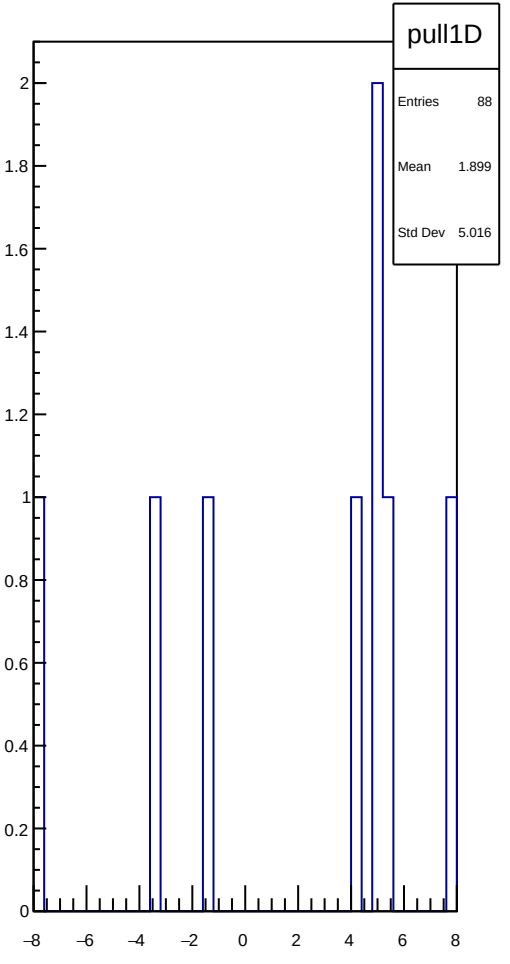

yield_bpm4acX_rms vs run
χ² / ndf 2.832e+05 / 87
p0 0.02034 ± 1.737e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

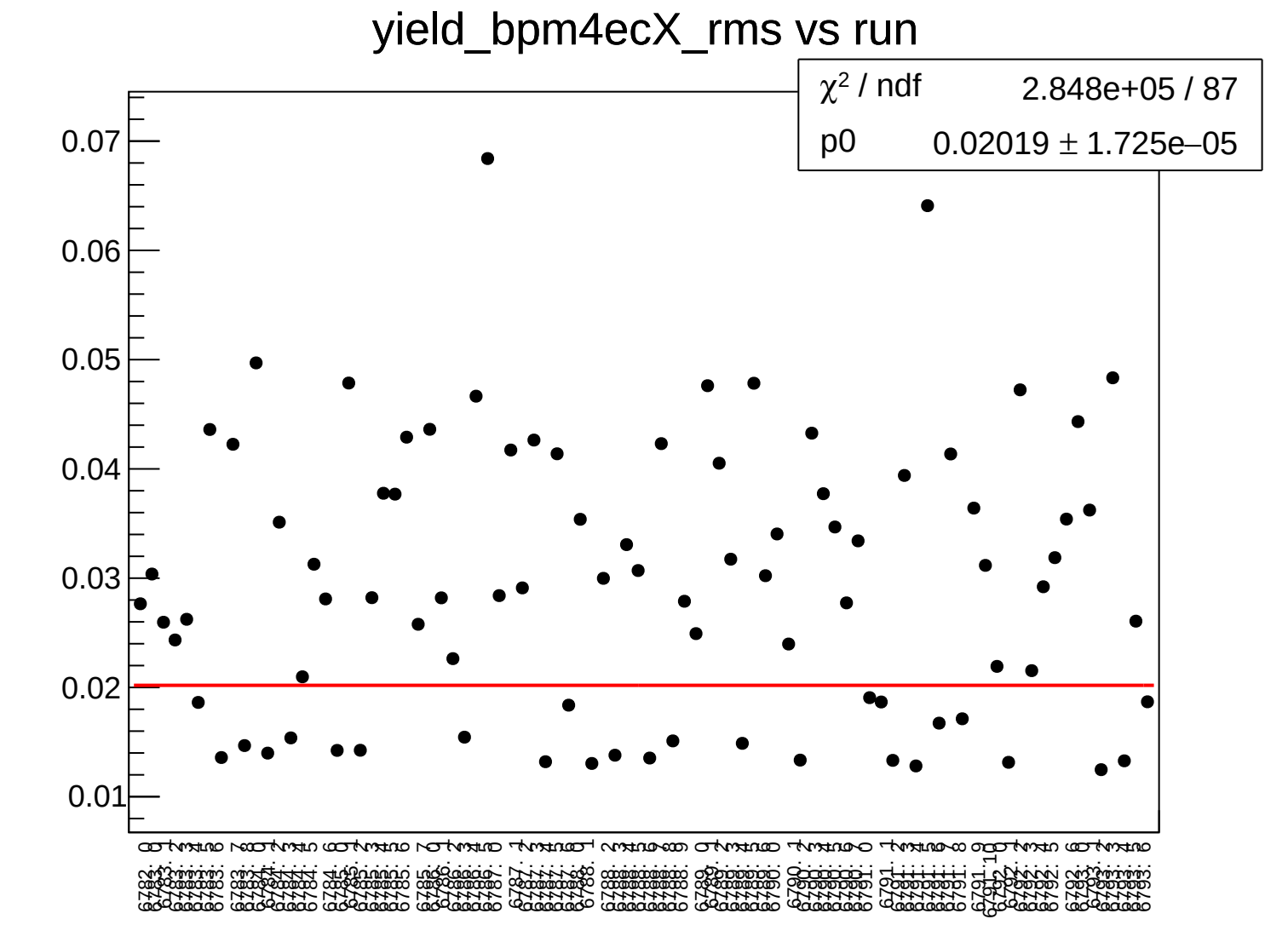

yield_bpm4acY_mean vs run
χ² / ndf 4.22e+05 / 87
p0 0.6819 ± 2.755e−05
0.76
0.74
0.72
0.7
0.68
0.66
0.64
0.62
pull
Entries 88
Mean 12.59
Std Dev 0
200
150
100
50
0
−50
−100
−150

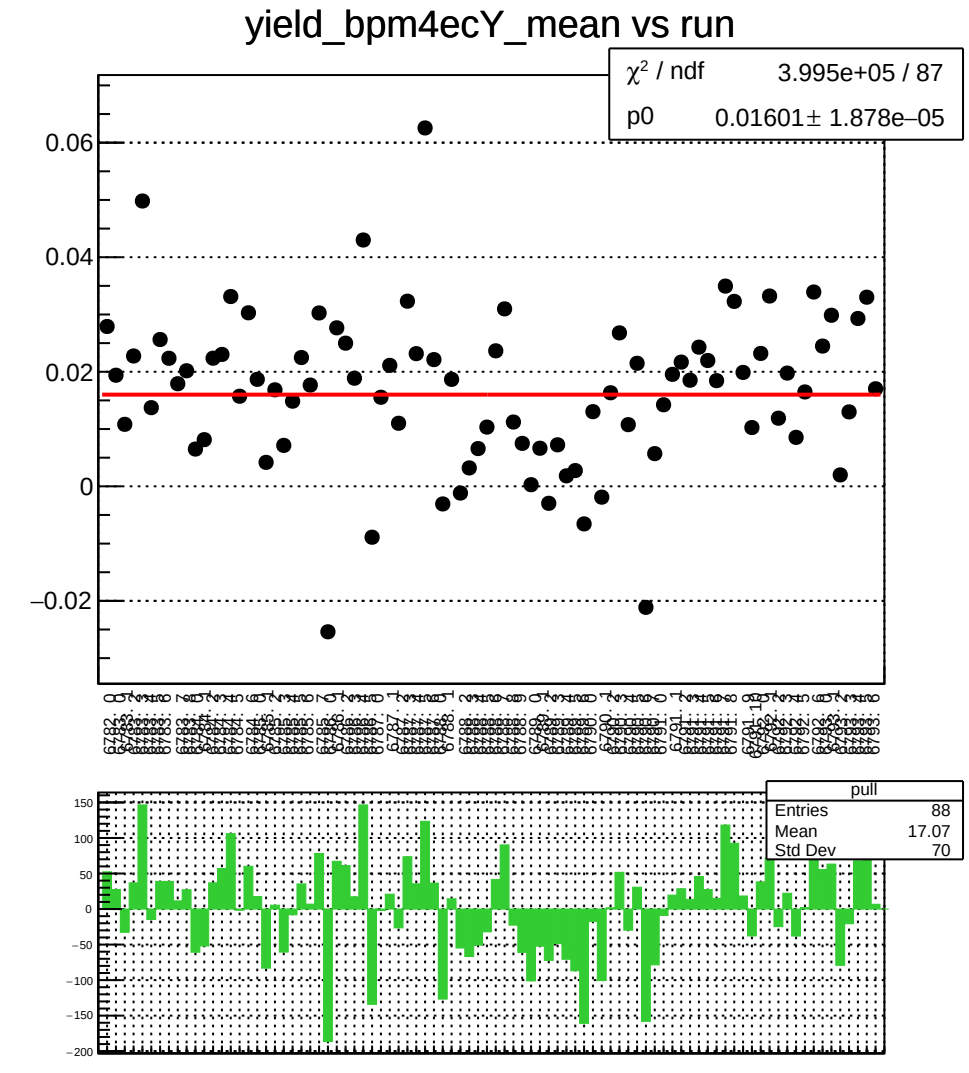

pull1D
Entries 88
Mean 0.687
Std Dev 4.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

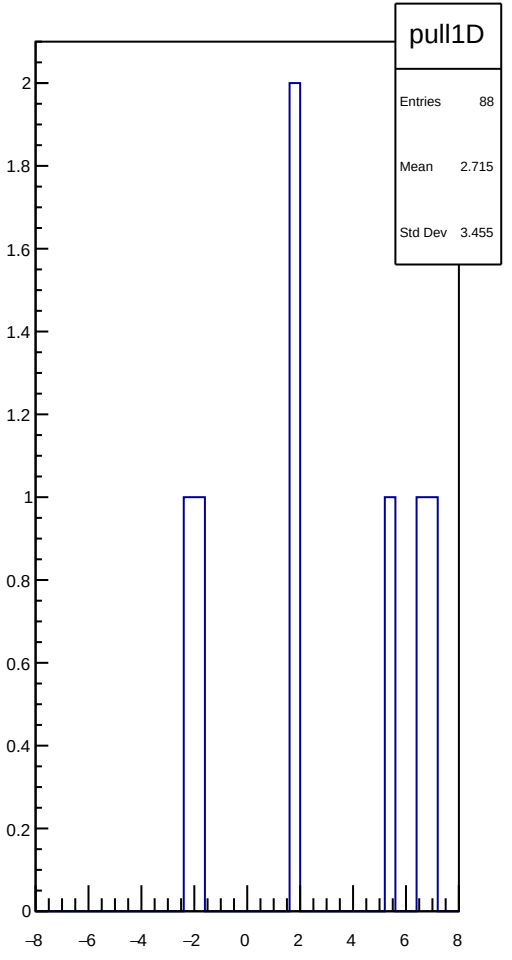

yield_bpm4acY_rms vs run
χ² / ndf 6.07e+04 / 87
p0 0.0246 ± 1.948e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

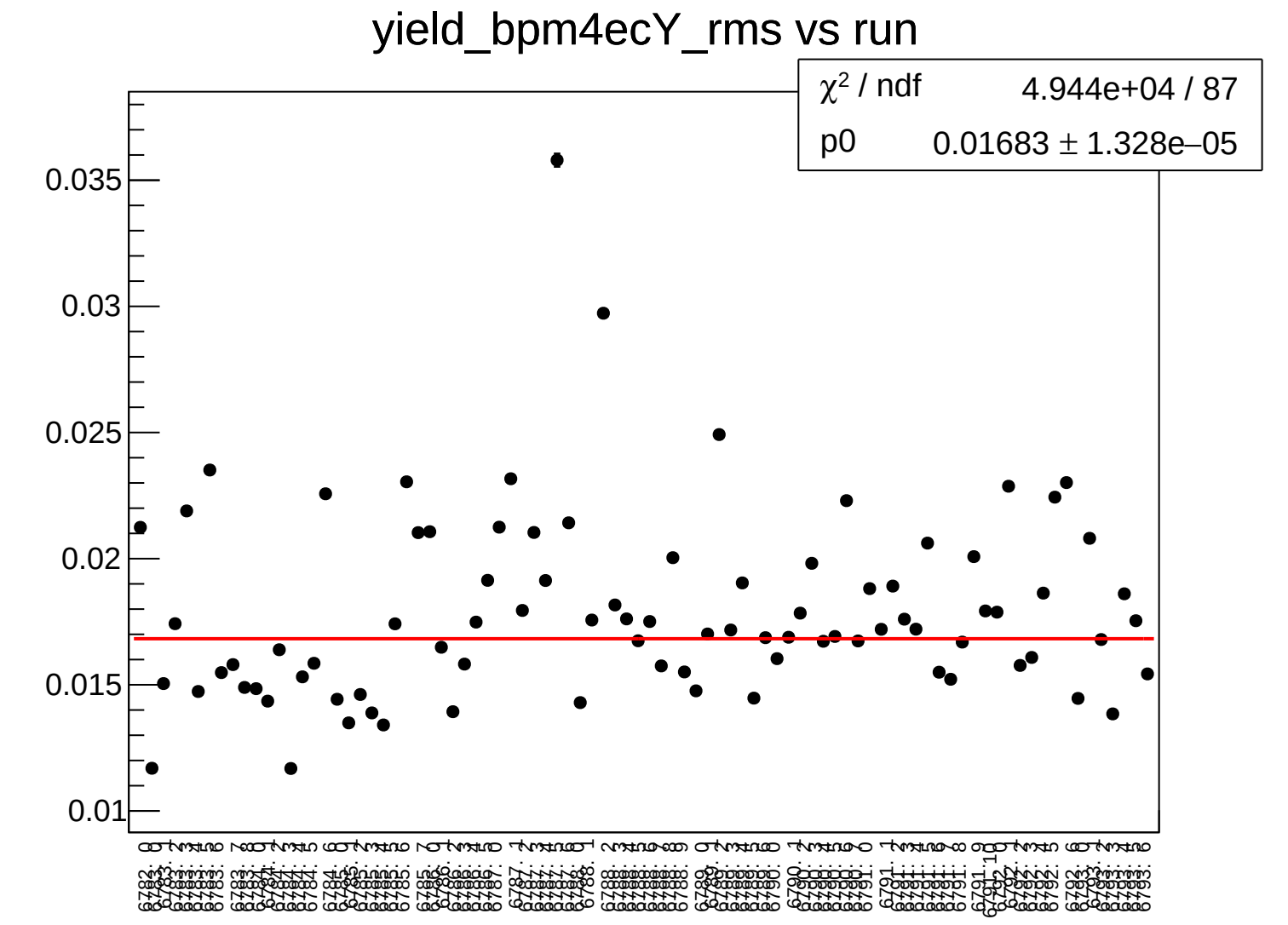

yield_bpm4ecX_mean vs run
χ² / ndf 3.738e+05 / 87
p0 −0.3003 ± 2.44e−05
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 88
Mean 44.91
Std Dev 0
150
100
50
0
−50
−100
−150

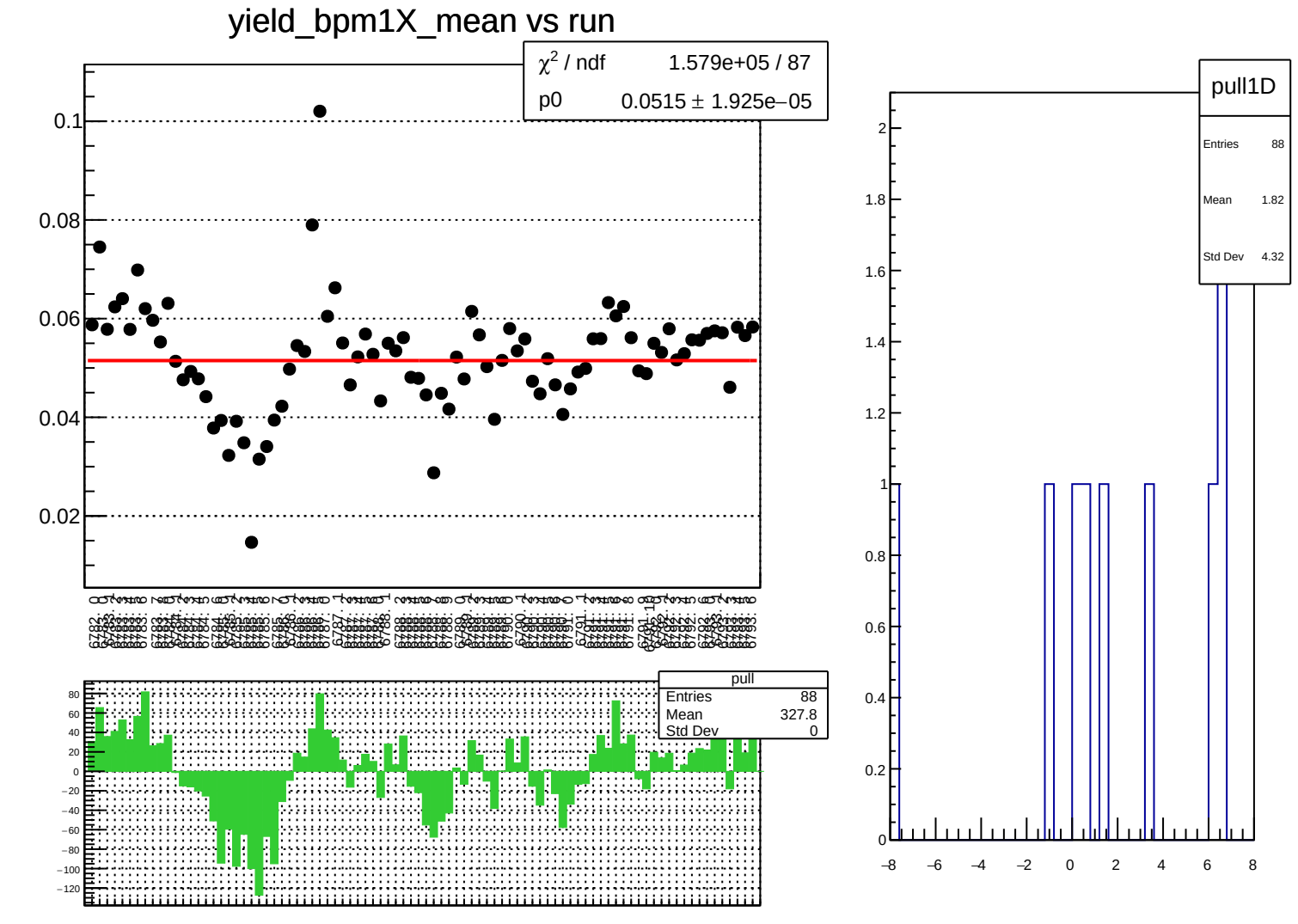

pull1D
Entries 88
Mean 1.899
Std Dev 5.016
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

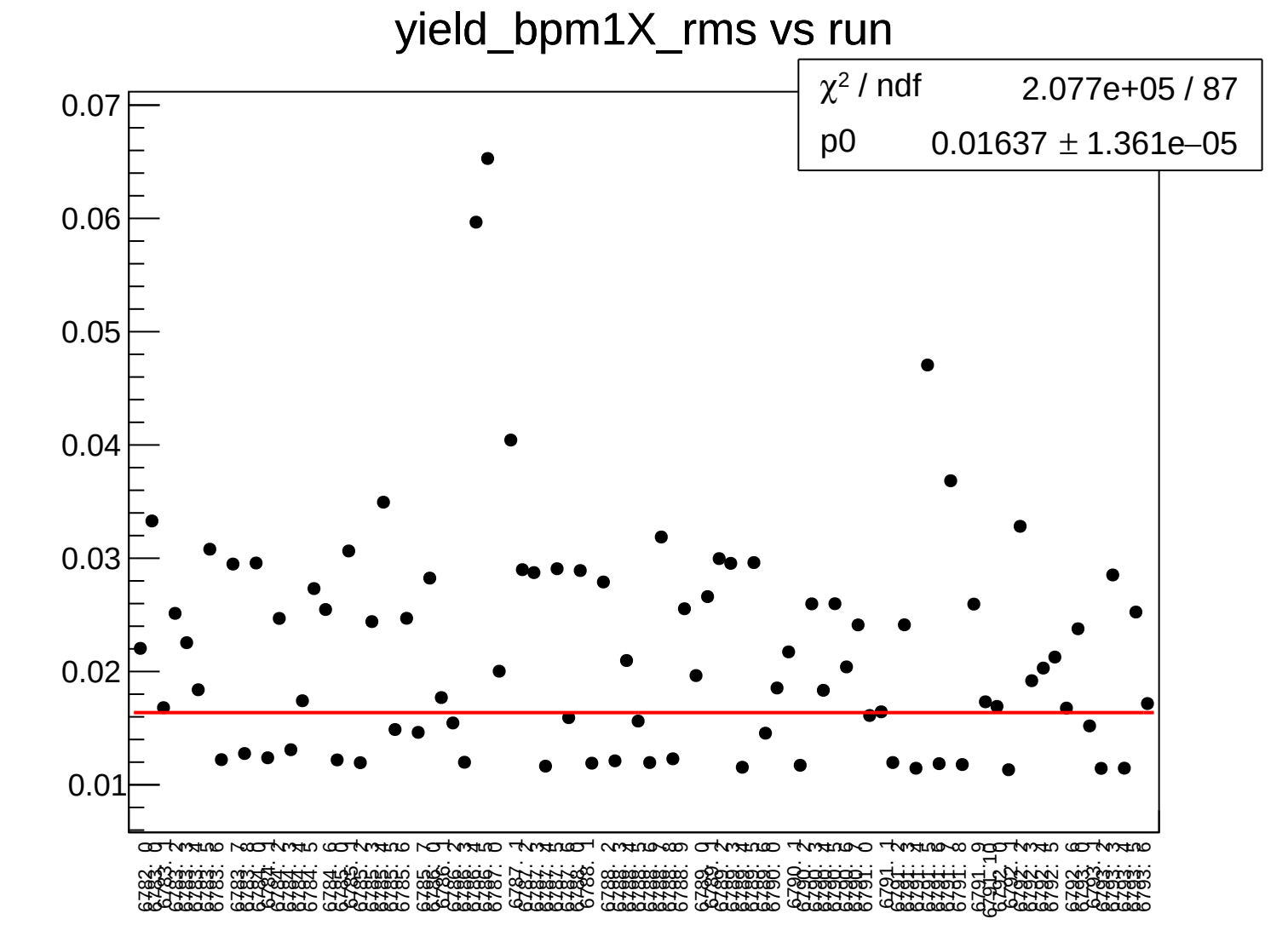

yield_bpm4ecX_rms vs run
χ² / ndf 2.848e+05 / 87
p0 0.02019 ± 1.725e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

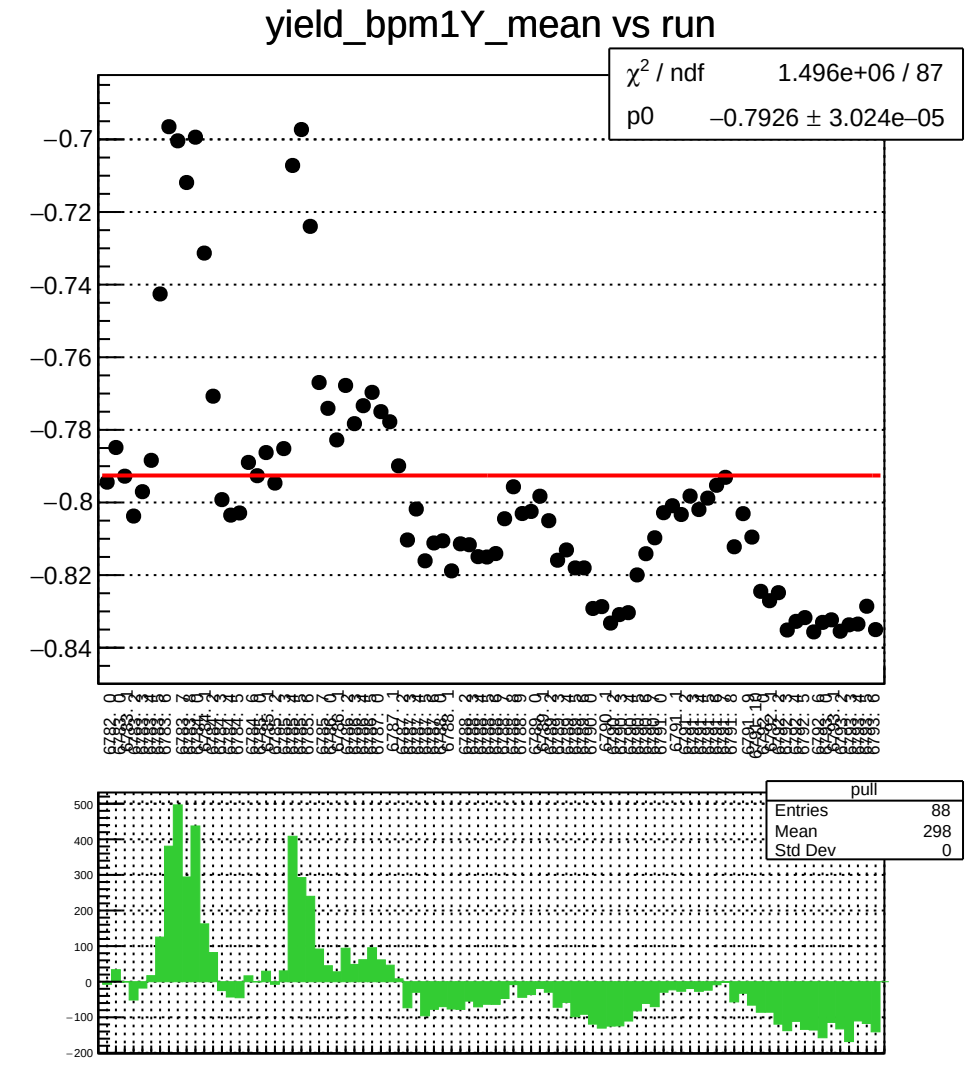

yield_bpm4ecY_mean vs run
χ² / ndf 3.995e+05 / 87
p0 0.01601± 1.878e–05
0.06
0.04
0.02
0
–0.02
pull
Entries 88
Mean 17.07
Std Dev 70
150
100
50
0
–50
–100
–150
–200

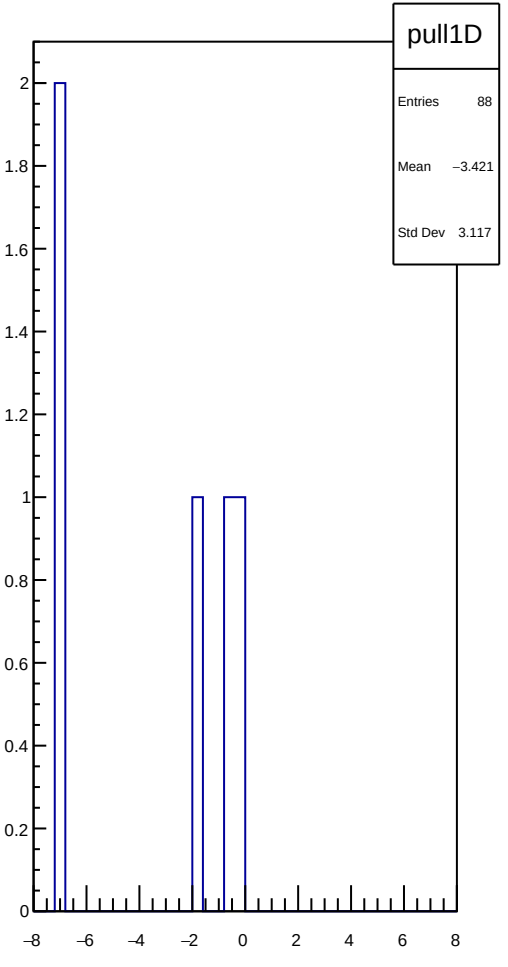

pull1D
Entries 88
Mean 2.715
Std Dev 3.455
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

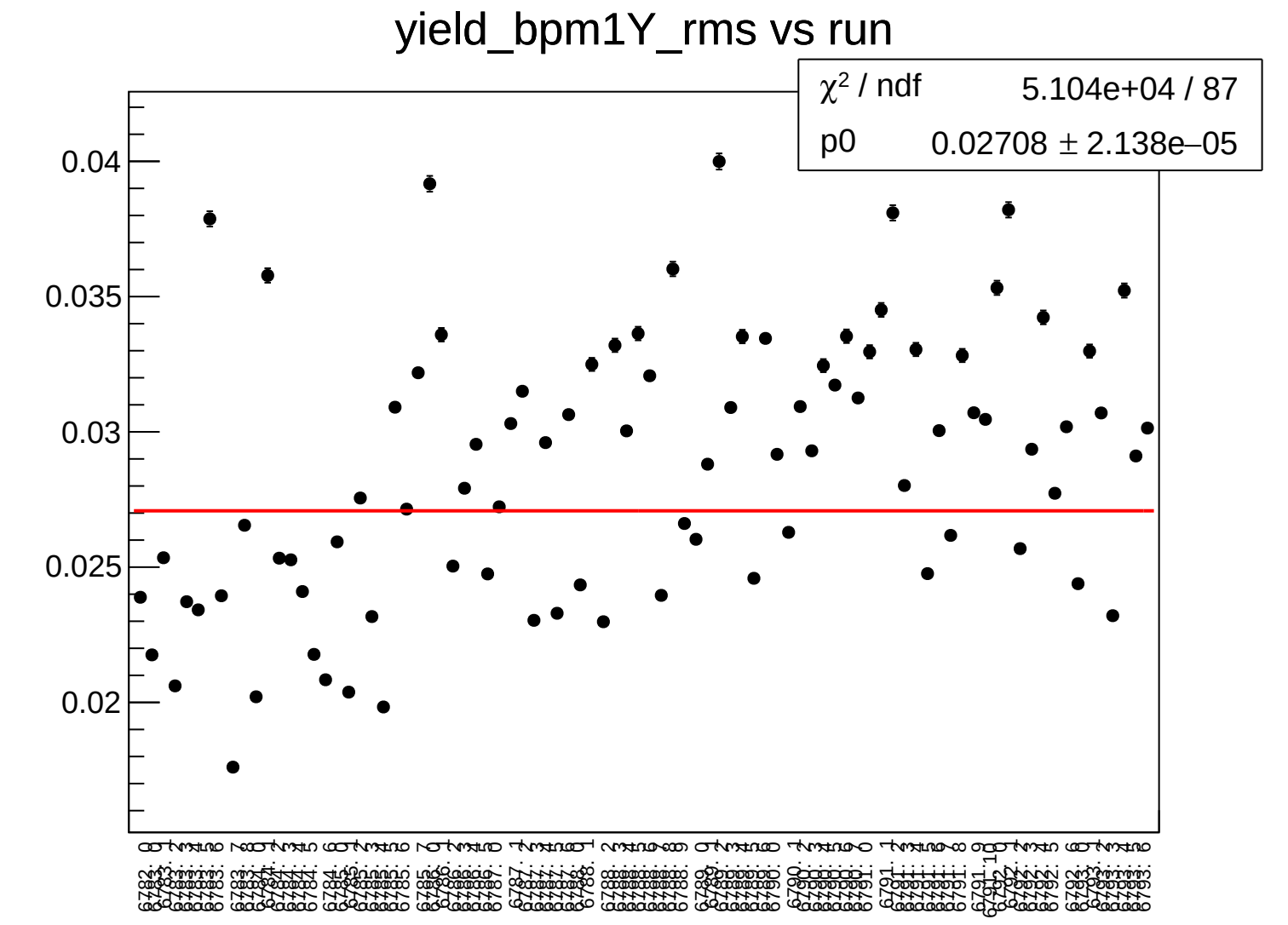

yield_bpm4ecY_rms vs run
χ² / ndf 4.944e+04 / 87
p0 0.01683 ± 1.328e−05
0.035
0.03
0.025
0.02
0.015
0.01

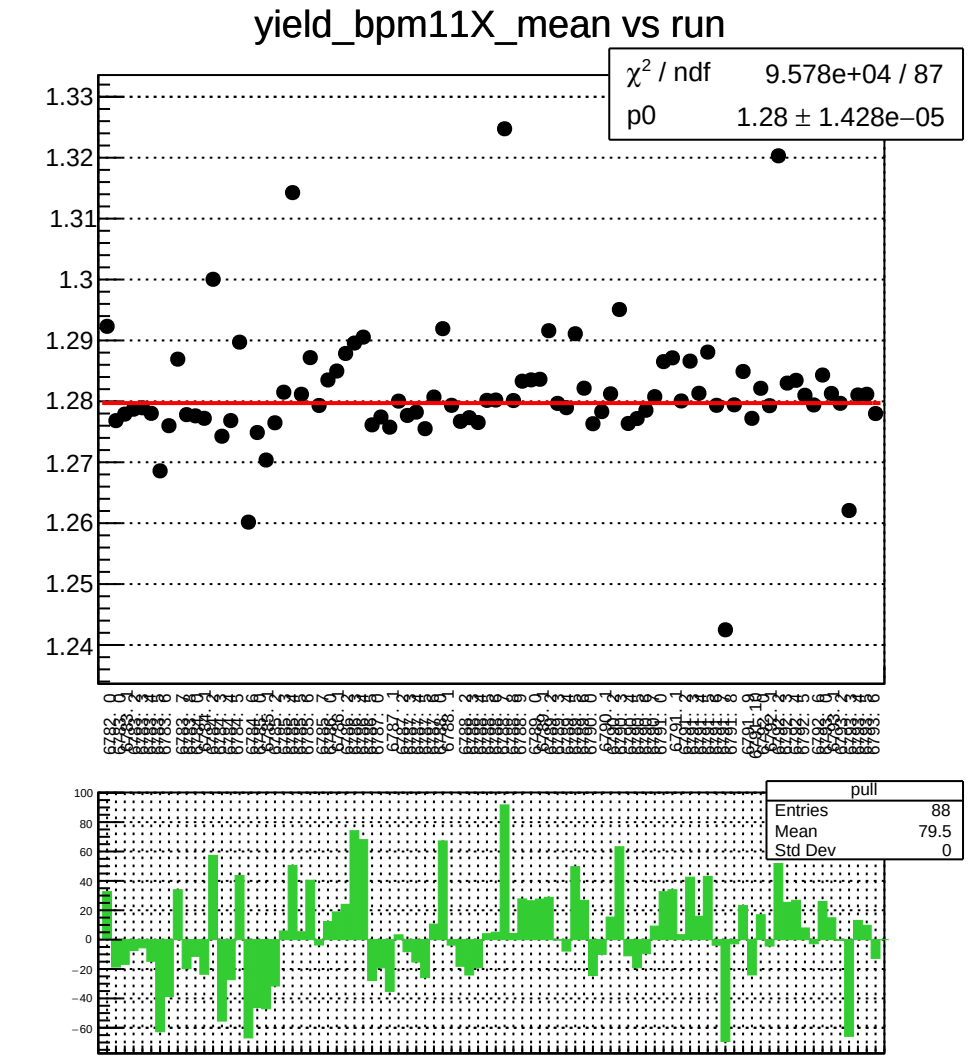

yield_bpm1X_mean vs run
χ² / ndf 1.579e+05 / 87
p0 0.0515 ± 1.925e−05
0.1
0.08
0.06
0.04
0.02
pull
Entries 88
Mean 327.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 88
Mean 1.82
Std Dev 4.32
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

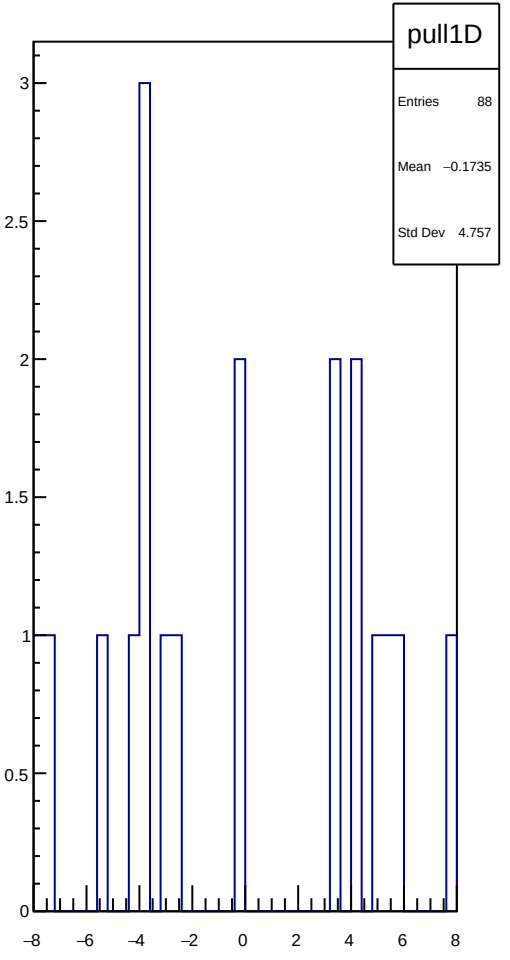

yield_bpm1X_rms vs run
χ² / ndf 2.077e+05 / 87
p0 0.01637 ± 1.361e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

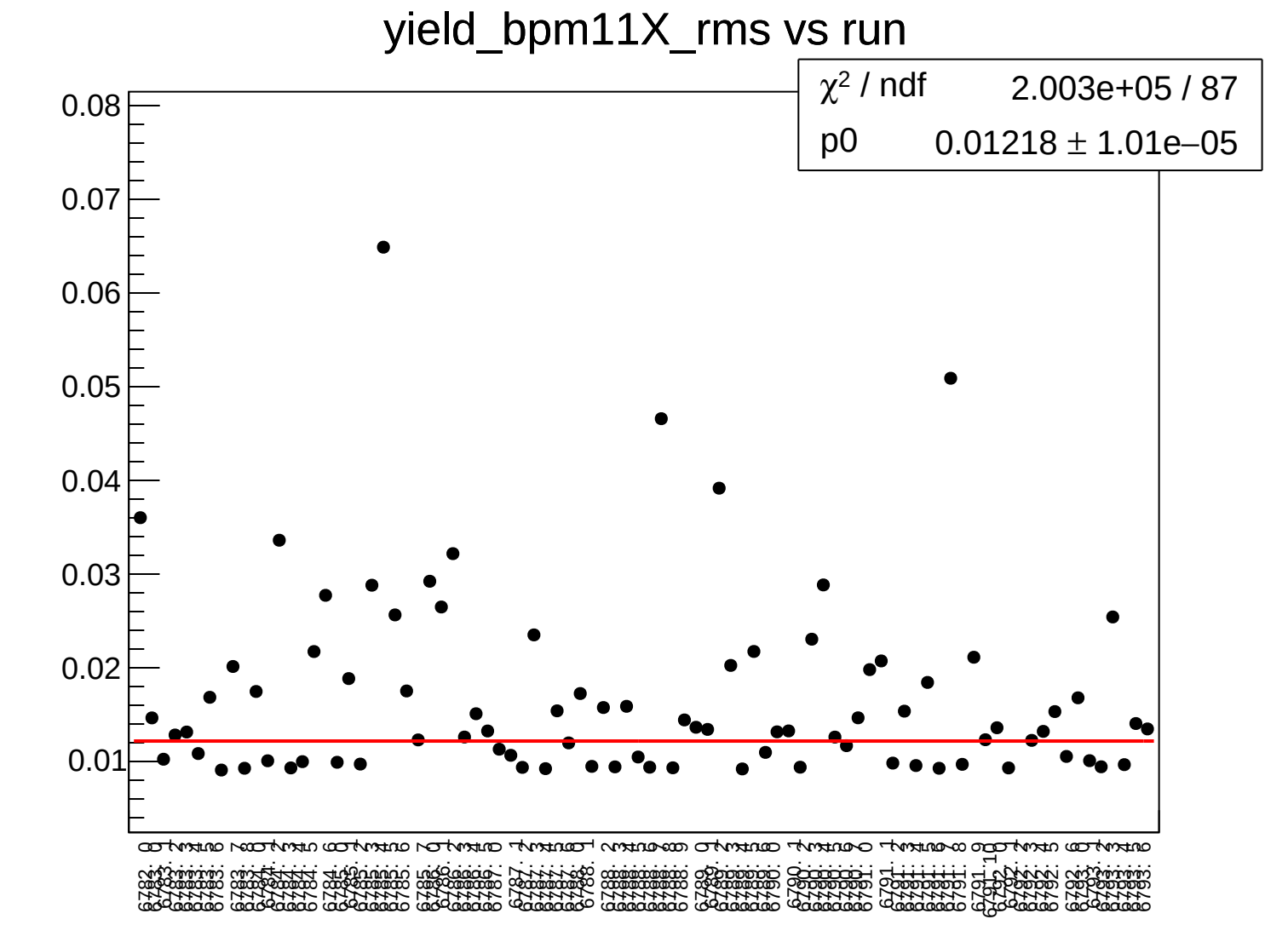

yield_bpm1Y_mean vs run
χ² / ndf 1.496e+06 / 87
p0 −0.7926 ± 3.024e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
pull
Entries 88
Mean 298
Std Dev 0
500
400
300
200
100
0
−100
−200

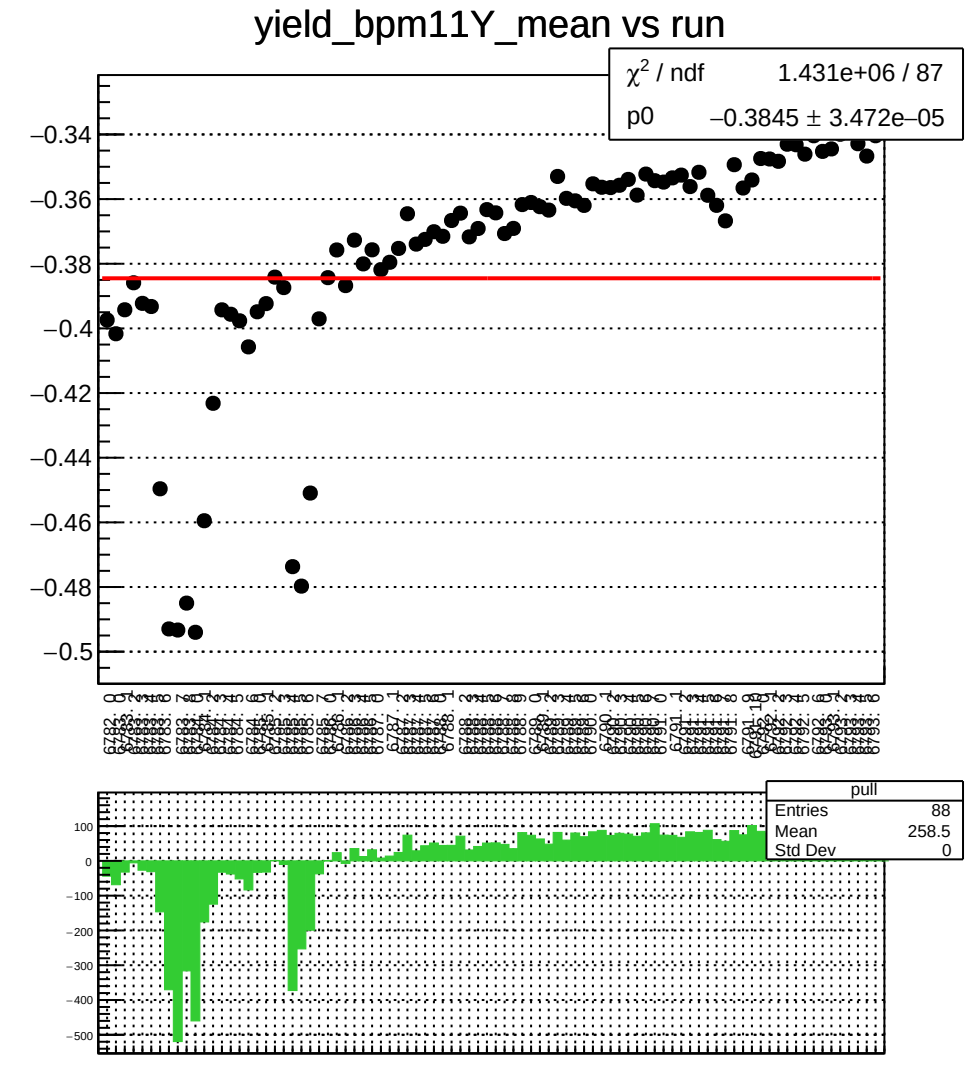

pull1D
Entries 88
Mean −3.421
Std Dev 3.117
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

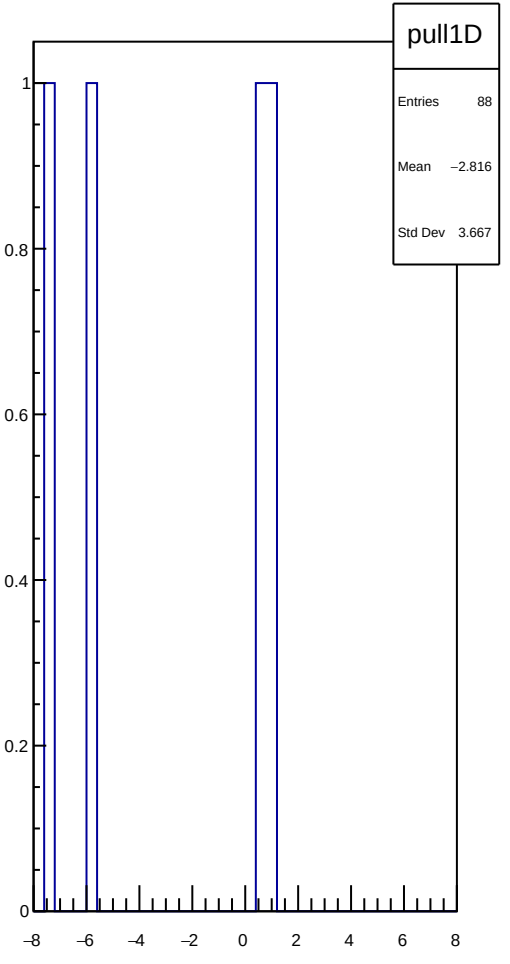

yield_bpm1Y_rms vs run
χ² / ndf 5.104e+04 / 87
p0 0.02708 ± 2.138e–05
0.04
0.035
0.03
0.025
0.02

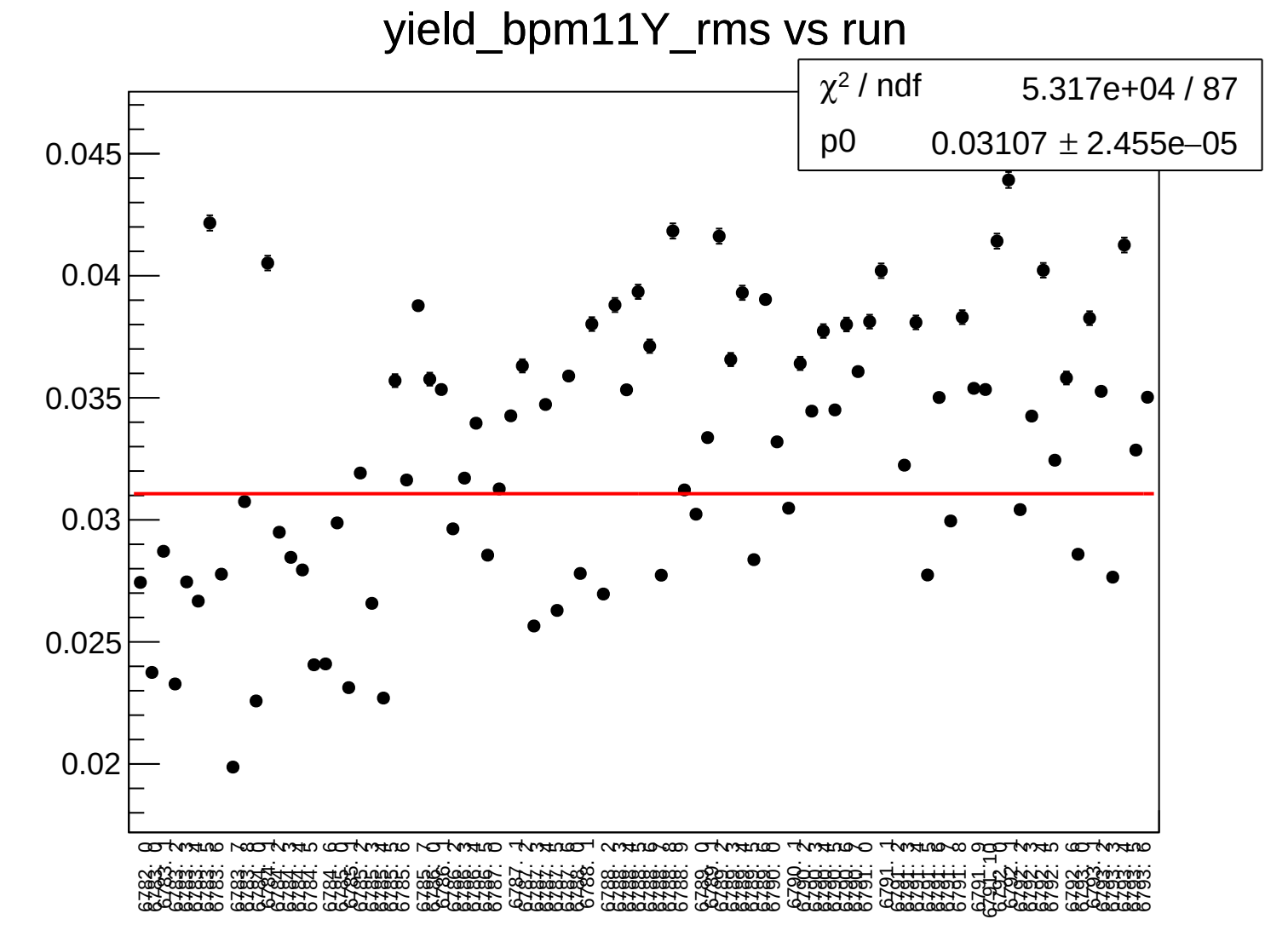

yield_bpm11X_mean vs run
χ² / ndf 9.578e+04 / 87
p0 1.28 ± 1.428e−05
1.33
1.32
1.31
1.3
1.29
1.28
1.27
1.26
1.25
1.24
pull
Entries 88
Mean 79.5
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

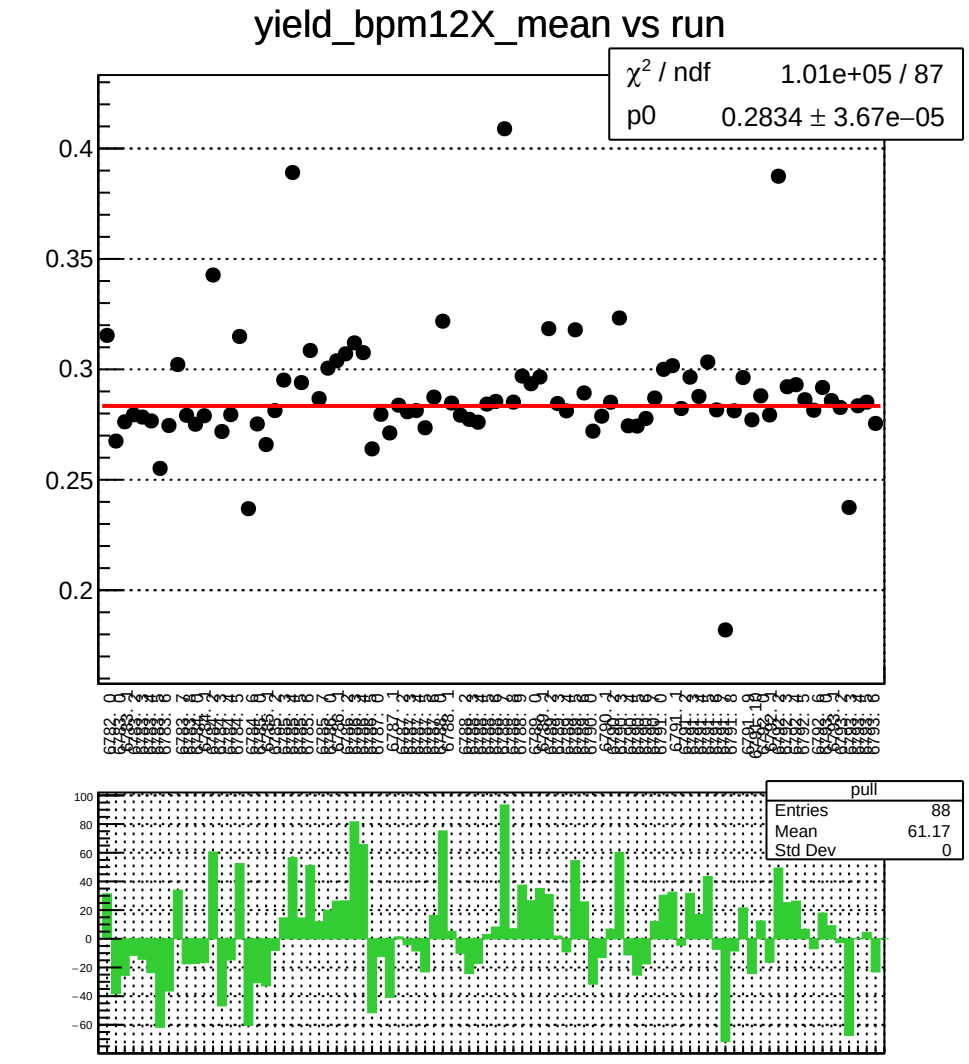

pull1D
Entries 88
Mean −0.1735
Std Dev 4.757
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

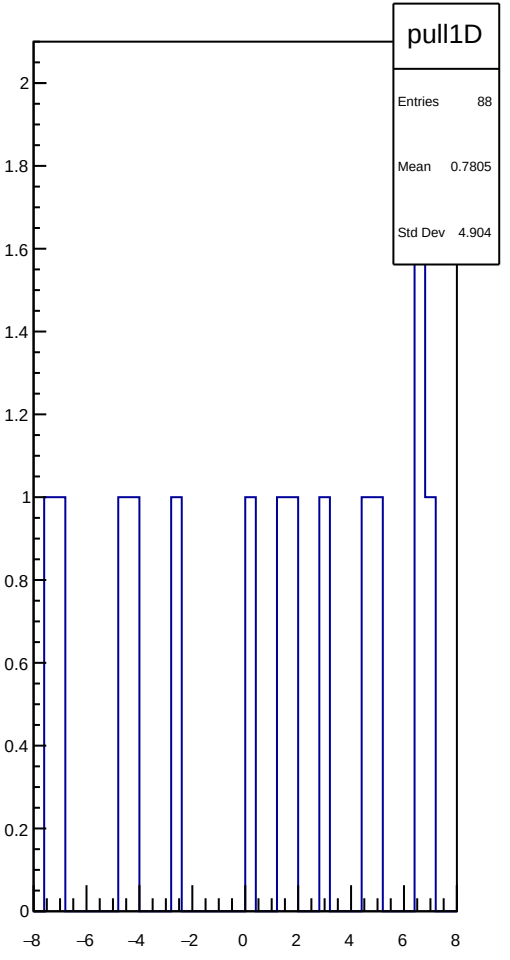

yield_bpm11X_rms vs run
χ² / ndf 2.003e+05 / 87
p0 0.01218 ± 1.01e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

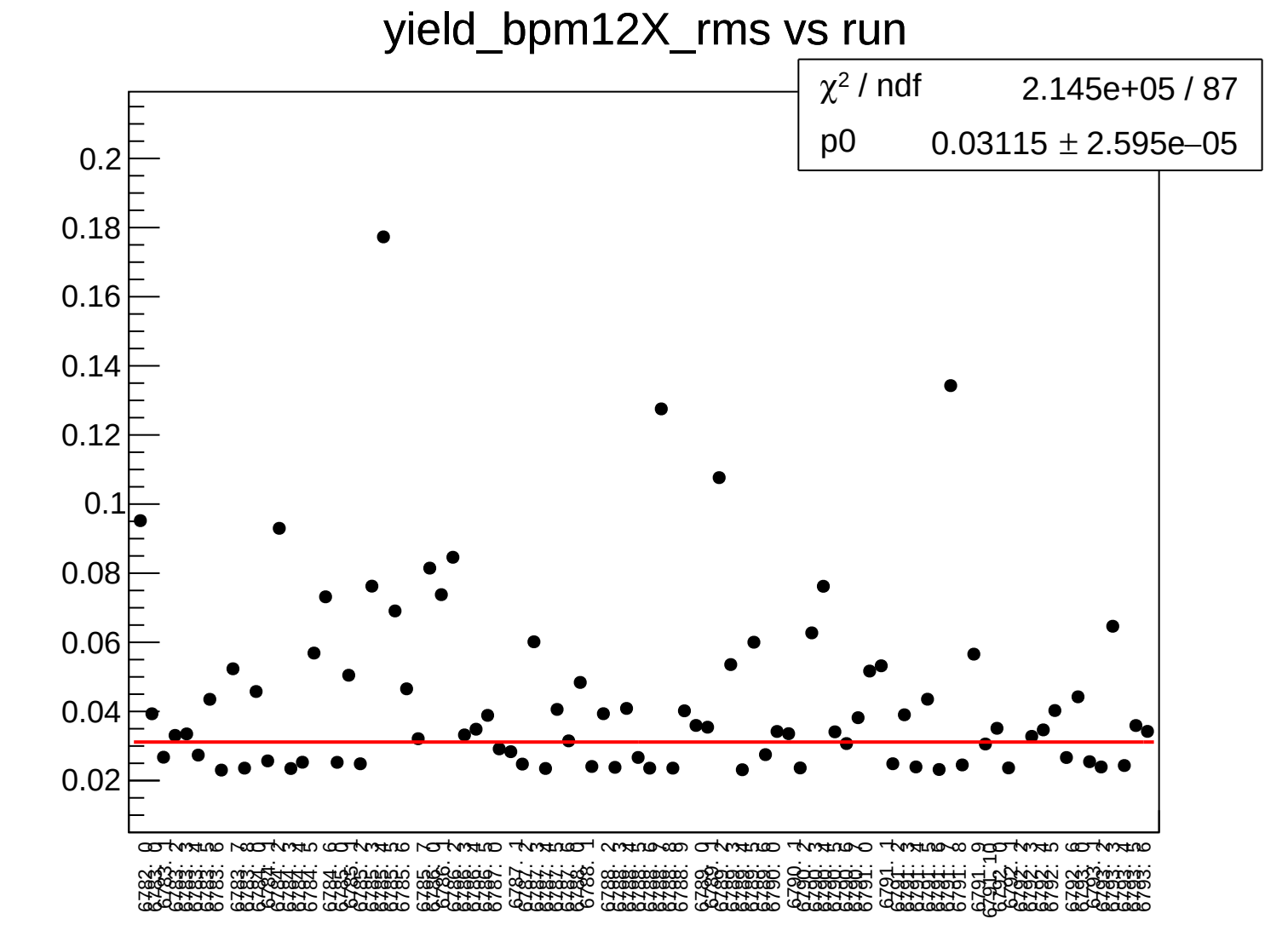

yield_bpm11Y_mean vs run
χ² / ndf 1.431e+06 / 87
p0 −0.3845 ± 3.472e−05
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 88
Mean 258.5
Std Dev 0
100
0
−100
−200
−300
−400
−500

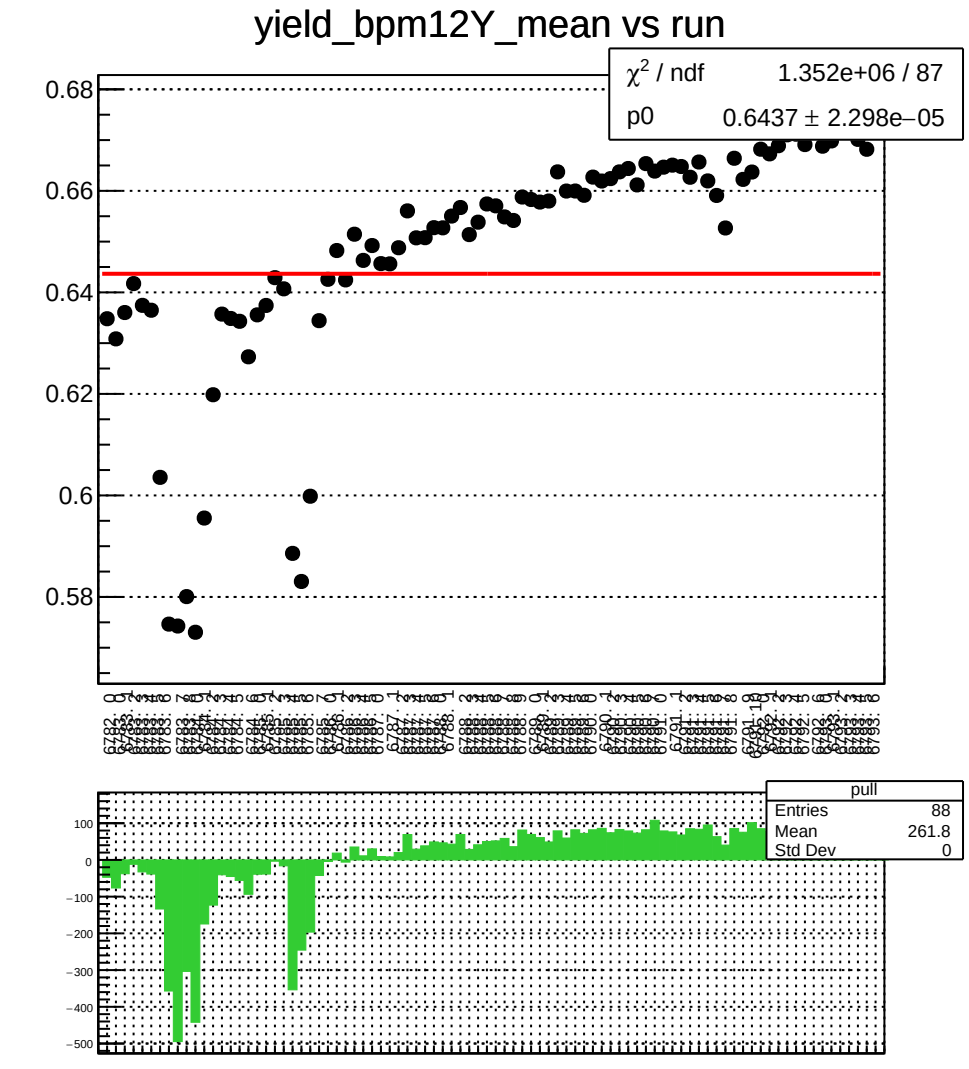

pull1D
Entries 88
Mean −2.816
Std Dev 3.667
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

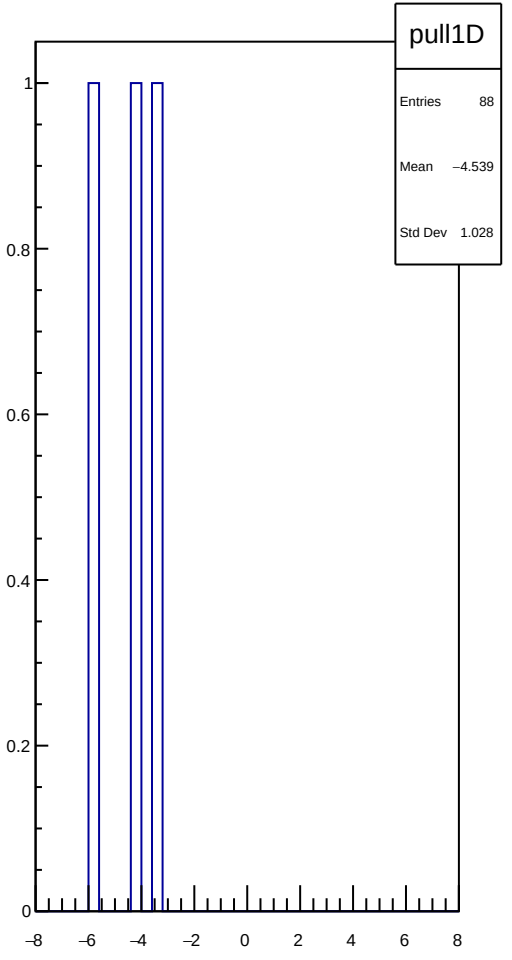

yield_bpm11Y_rms vs run
χ² / ndf 5.317e+04 / 87
p0 0.03107 ± 2.455e−05
0.045
0.04
0.035
0.03
0.025
0.02

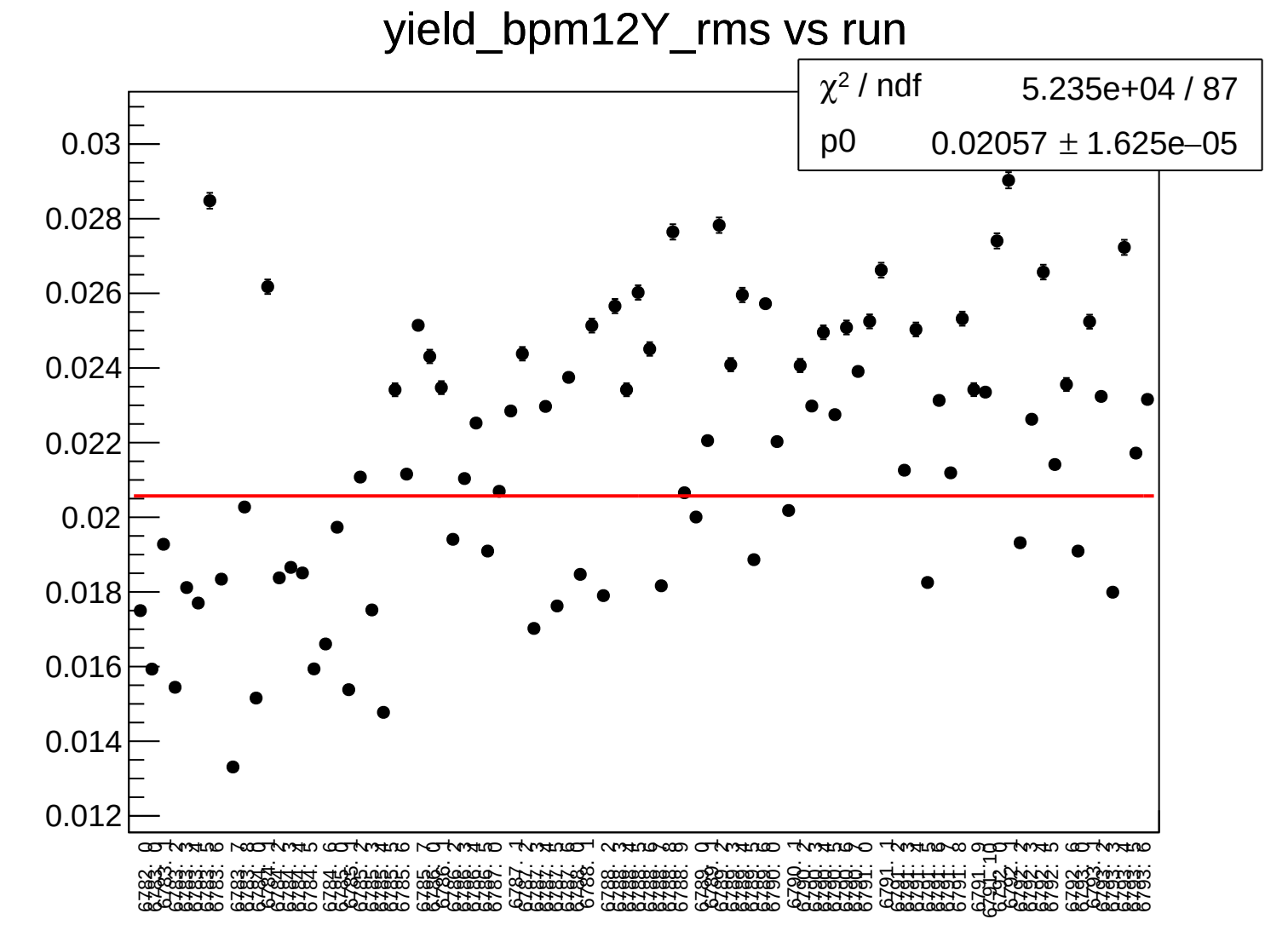

yield_bpm12X_mean vs run
χ² / ndf 1.01e+05 / 87
p0 0.2834 ± 3.67e−05
0.4
0.35
0.3
0.25
0.2
pull
Entries 88
Mean 61.17
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

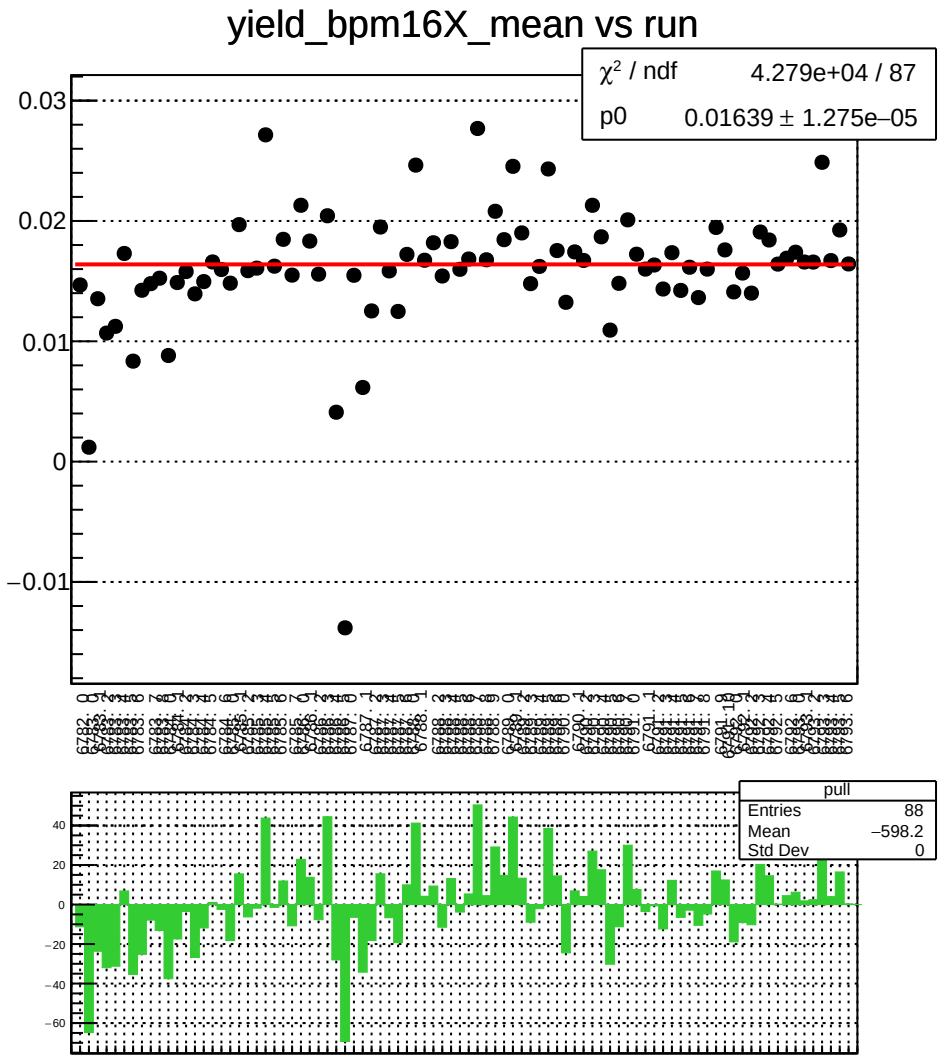

pull1D
Entries 88
Mean 0.7805
Std Dev 4.904
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

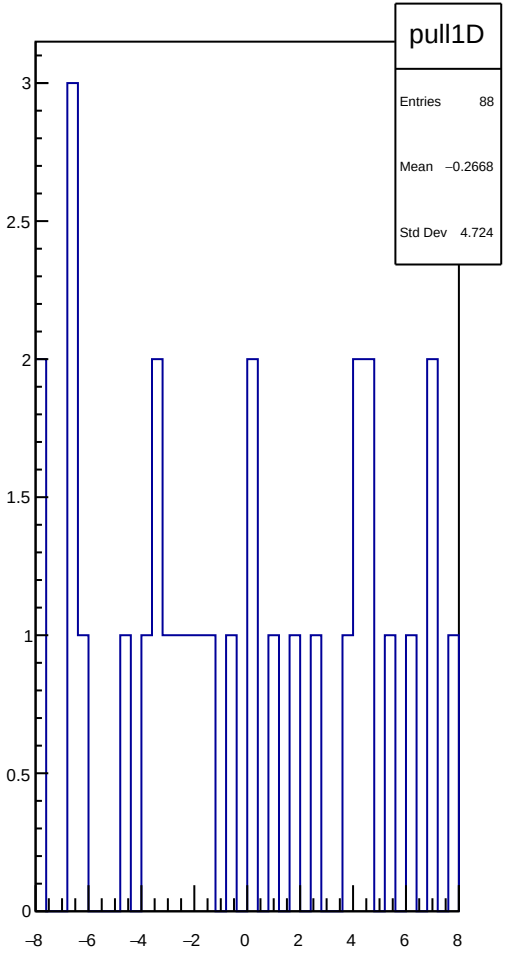

yield_bpm12X_rms vs run
χ² / ndf 2.145e+05 / 87
p0 0.03115 ± 2.595e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

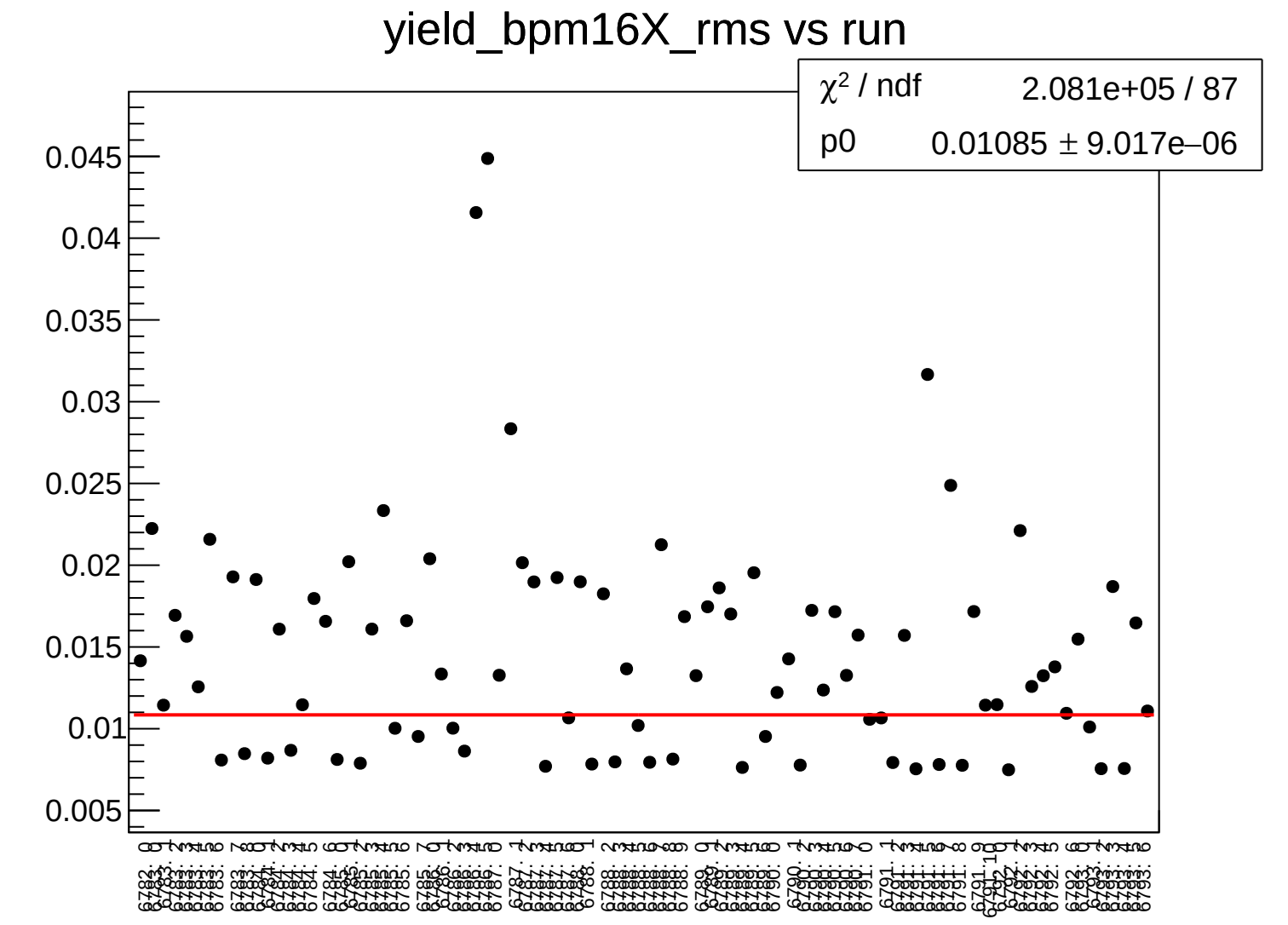

yield_bpm12Y_mean vs run
χ² / ndf 1.352e+06 / 87
p0 0.6437 ± 2.298e−05
0.68
0.66
0.64
0.62
0.6
0.58
pull
Entries 88
Mean 261.8
Std Dev 0
100
0
−100
−200
−300
−400
−500

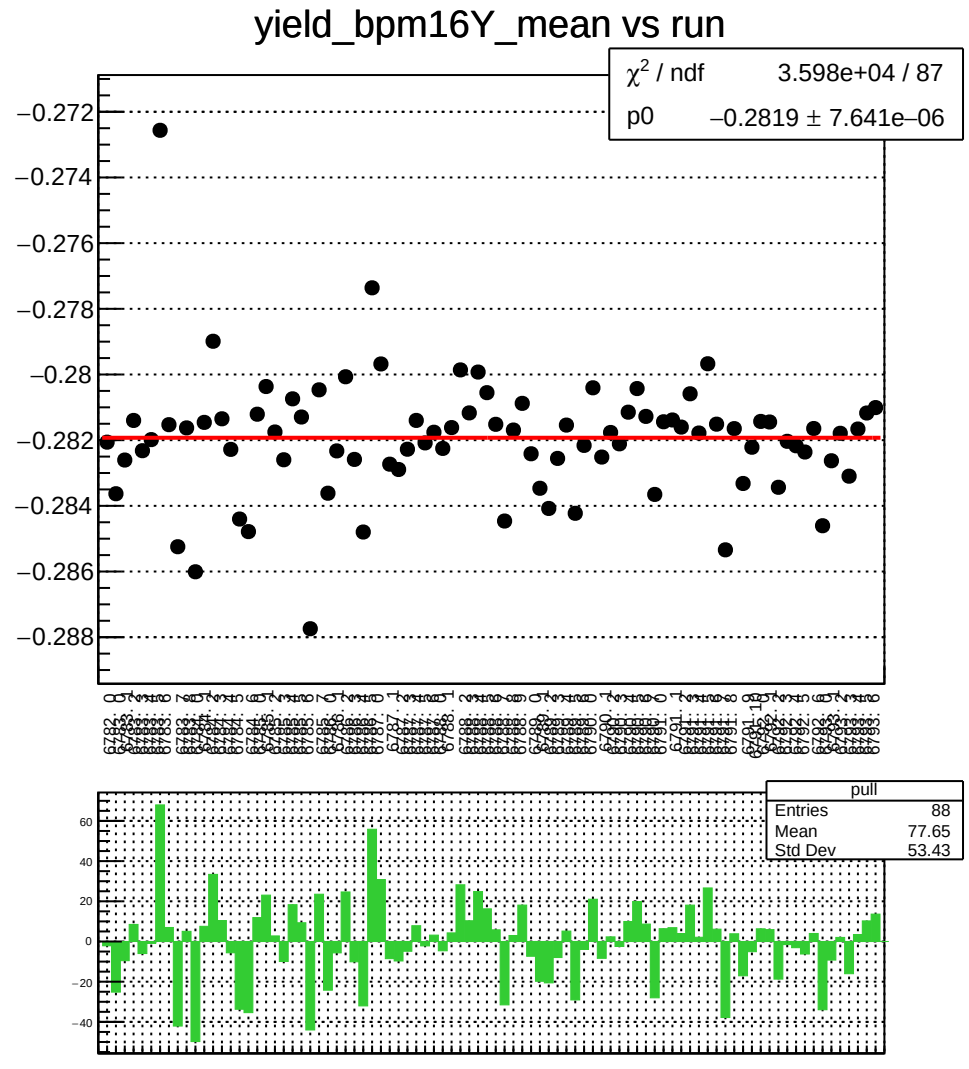

pull1D
Entries 88
Mean −4.539
Std Dev 1.028
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

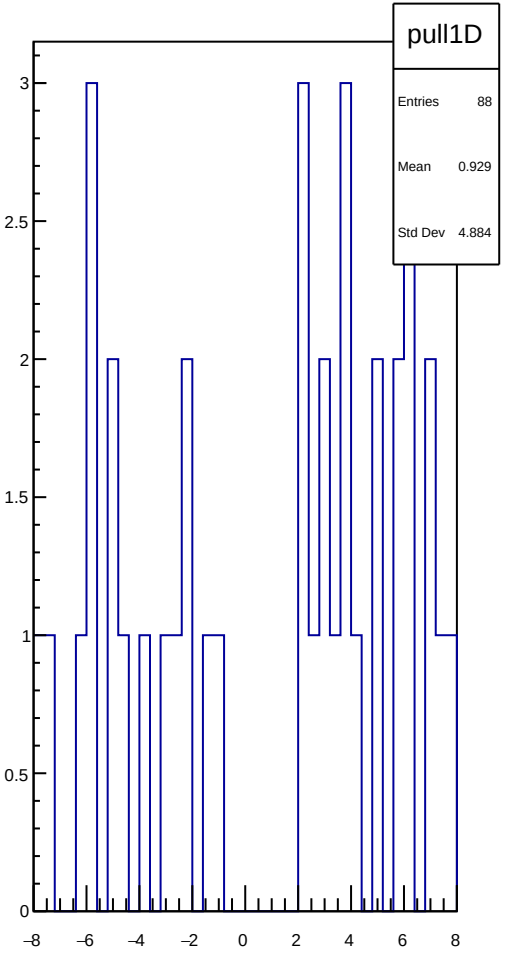

yield_bpm12Y_rms vs run
χ² / ndf 5.235e+04 / 87
p0 0.02057 ± 1.625e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

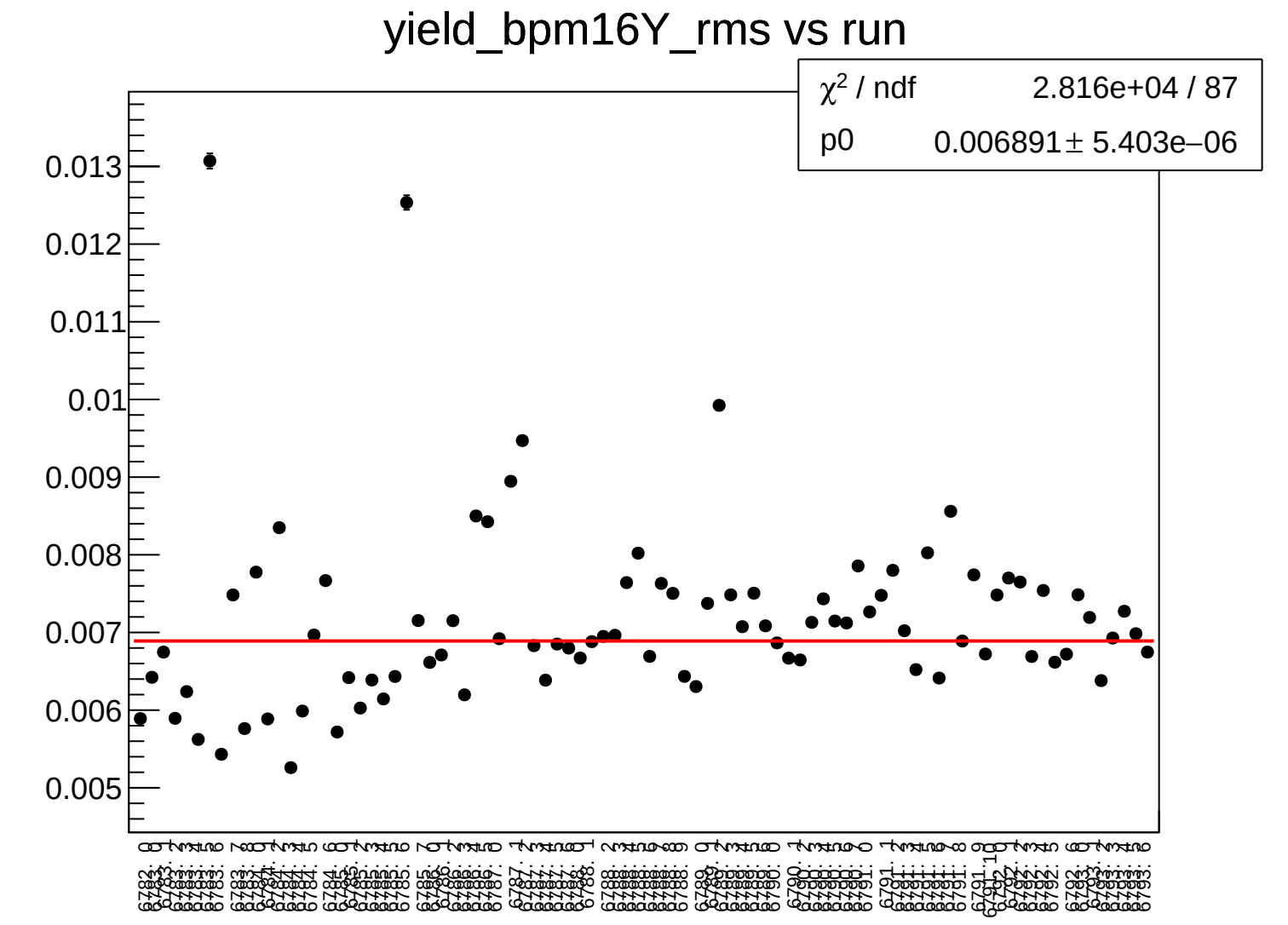

yield_bpm16X_mean vs run
χ² / ndf 4.279e+04 / 87
p0 0.01639 ± 1.275e−05
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean −598.2
Std Dev 0
40
20
0
−20
−40
−60

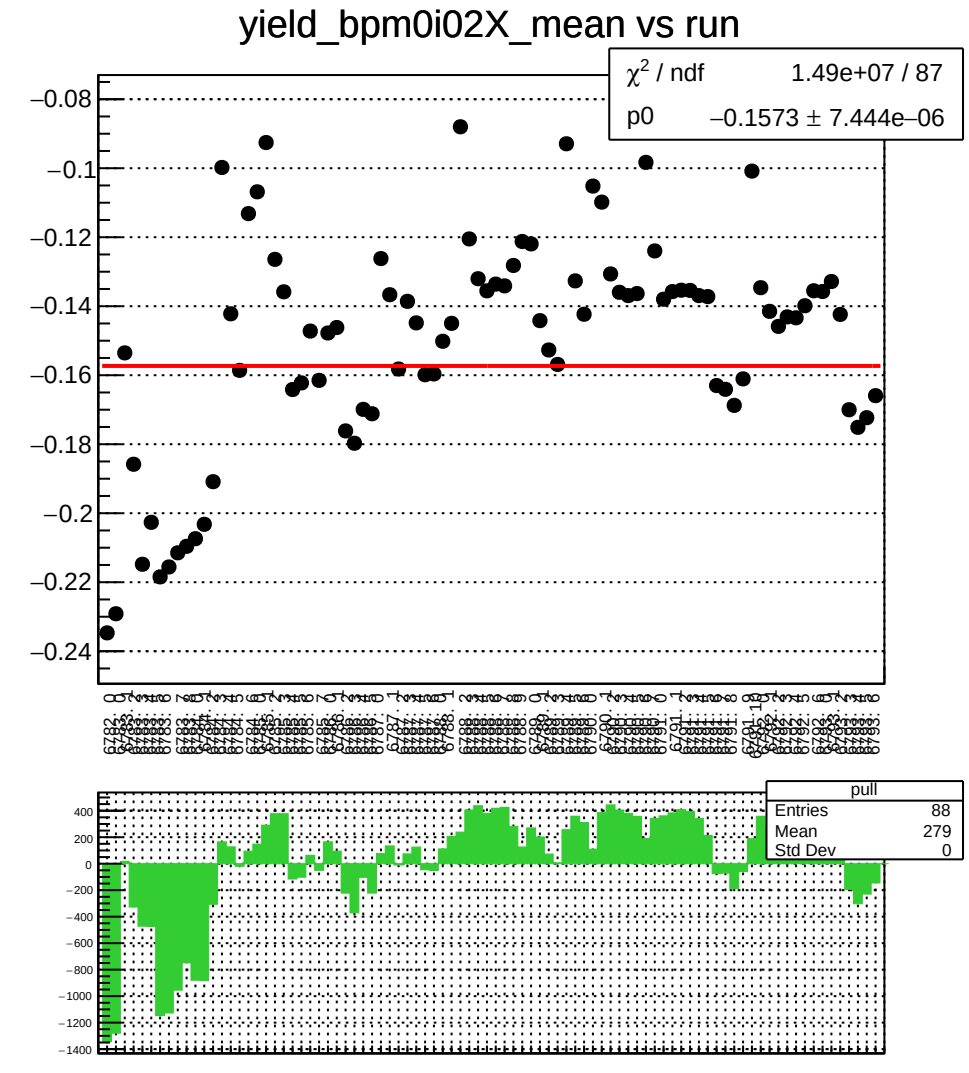

pull1D
Entries 88
Mean −0.2668
Std Dev 4.724
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

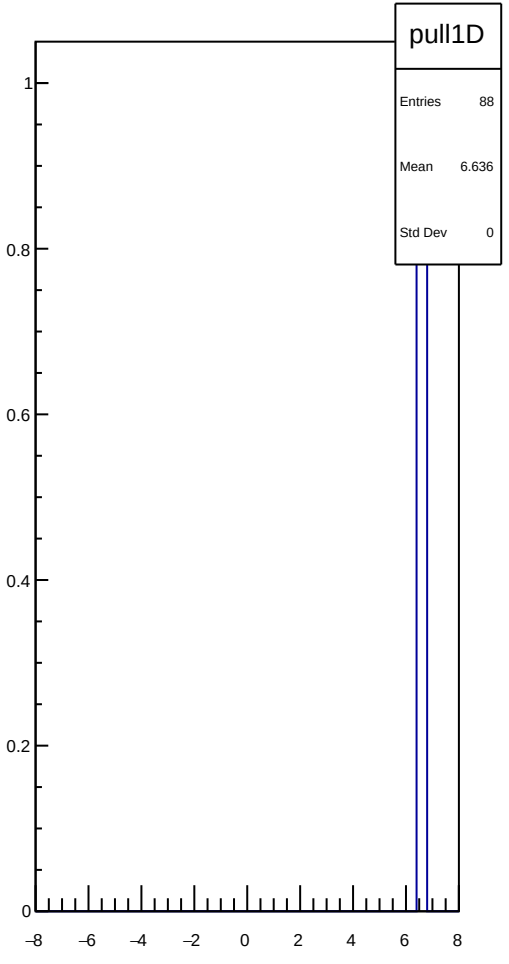

yield_bpm16X_rms vs run
χ² / ndf 2.081e+05 / 87
p0 0.01085 ± 9.017e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

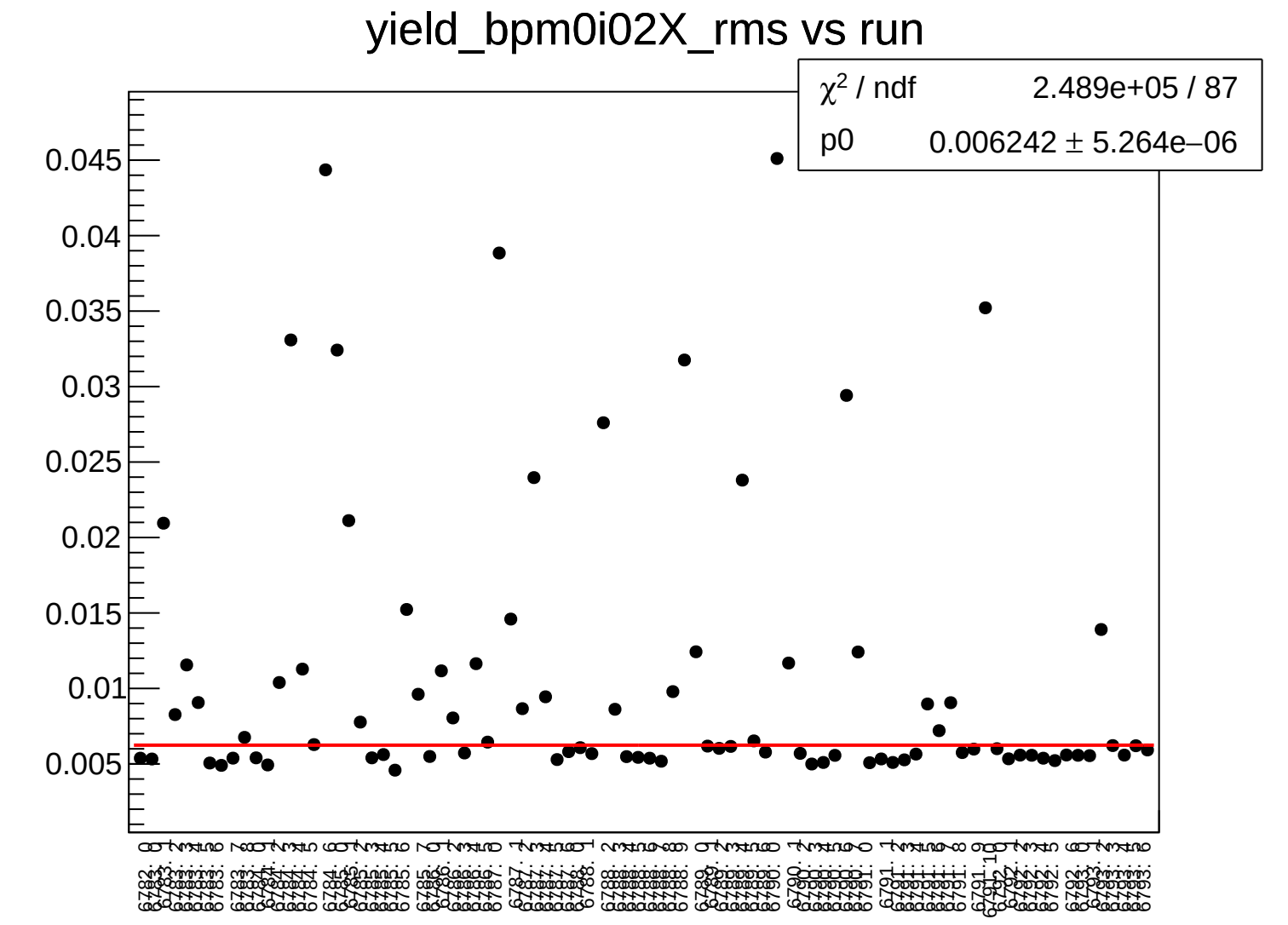

yield_bpm16Y_mean vs run
χ² / ndf 3.598e+04 / 87
p0 −0.2819 ± 7.641e−06
−0.272
−0.274
−0.276
−0.278
−0.28
−0.282
−0.284
−0.286
−0.288
pull
Entries 88
Mean 77.65
Std Dev 53.43
60
40
20
0
−20
−40

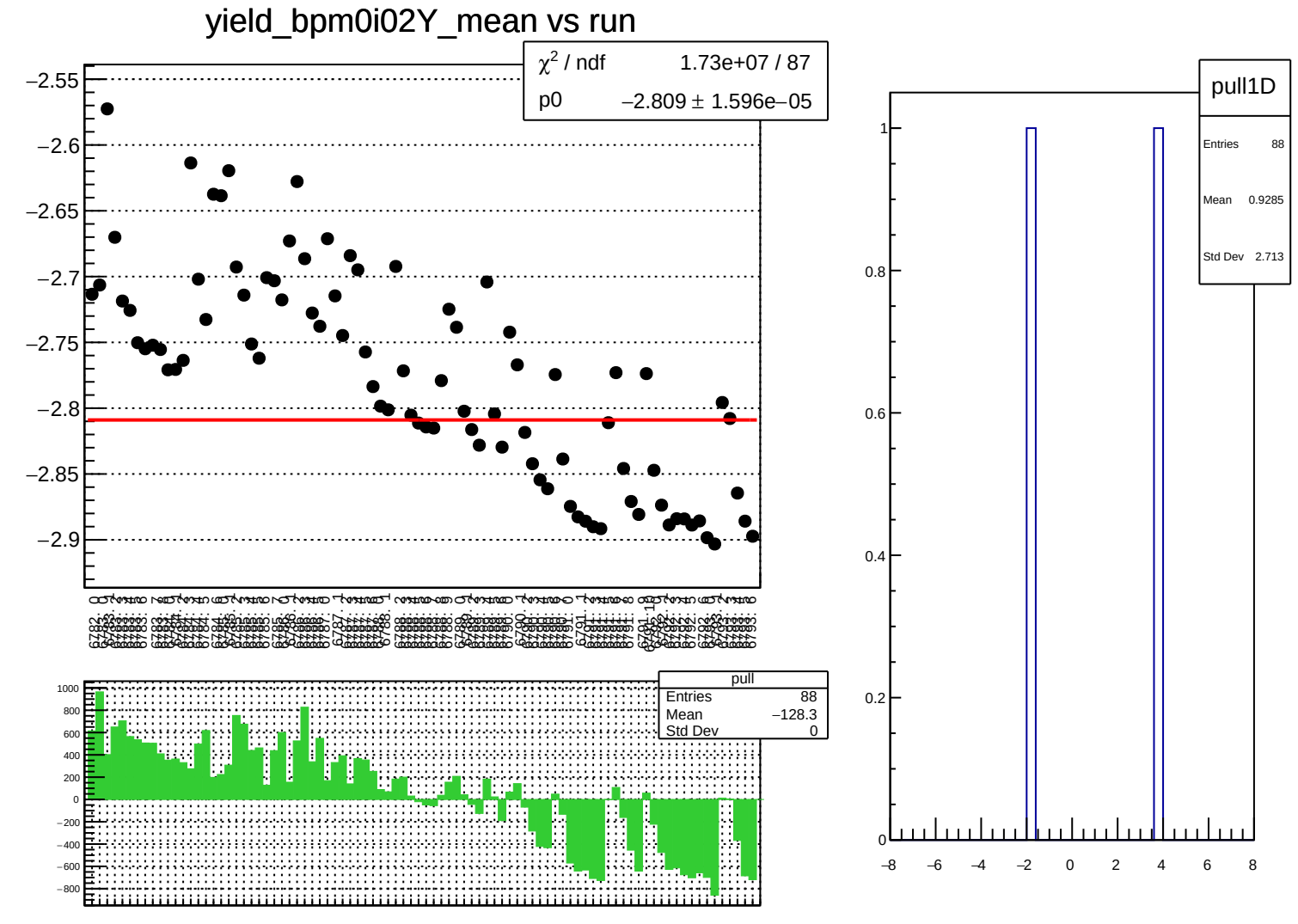

pull1D
Entries 88
Mean 0.929
Std Dev 4.884
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

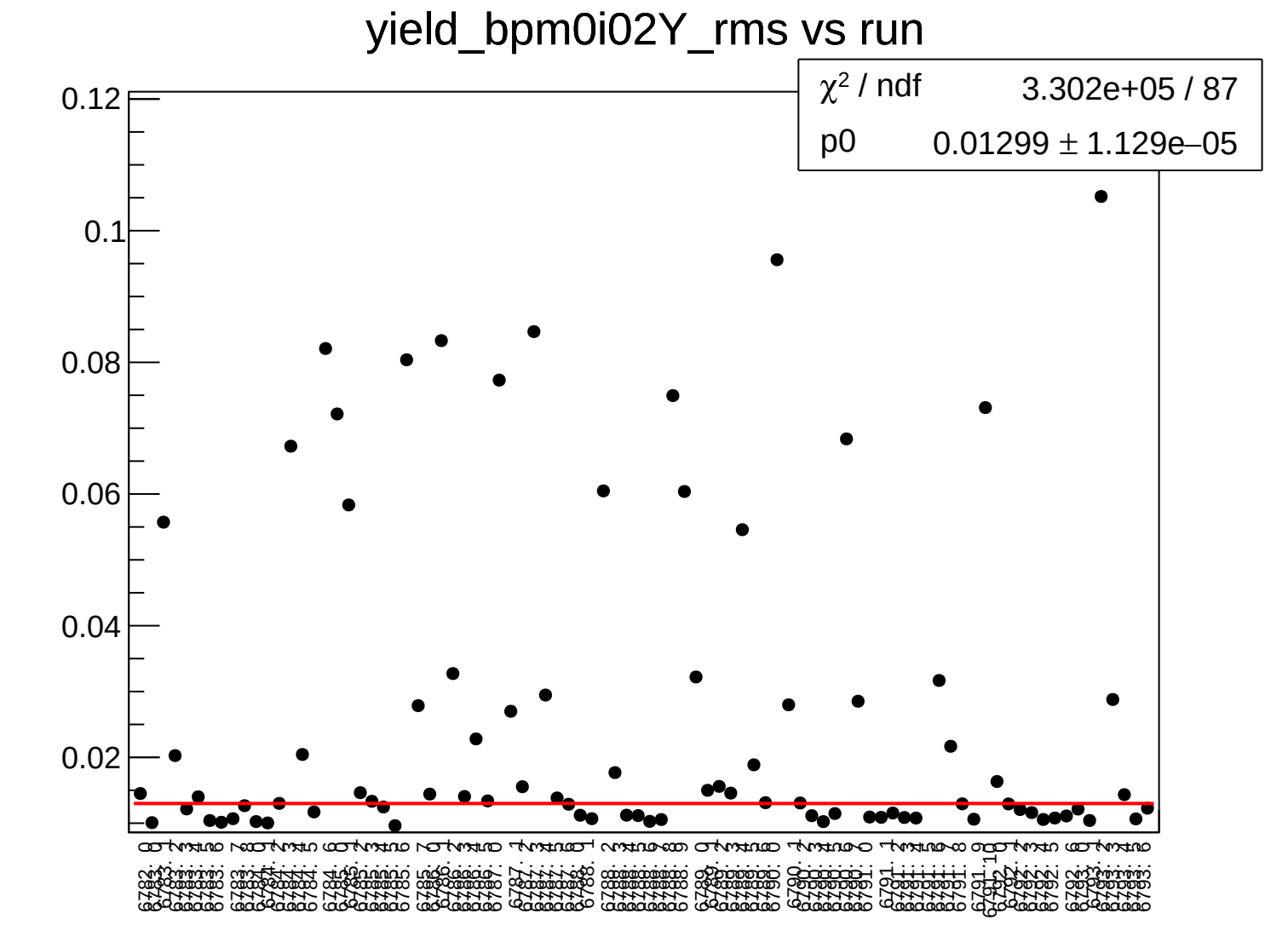

yield_bpm16Y_rms vs run
χ² / ndf 2.816e+04 / 87
p0 0.006891 ± 5.403e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

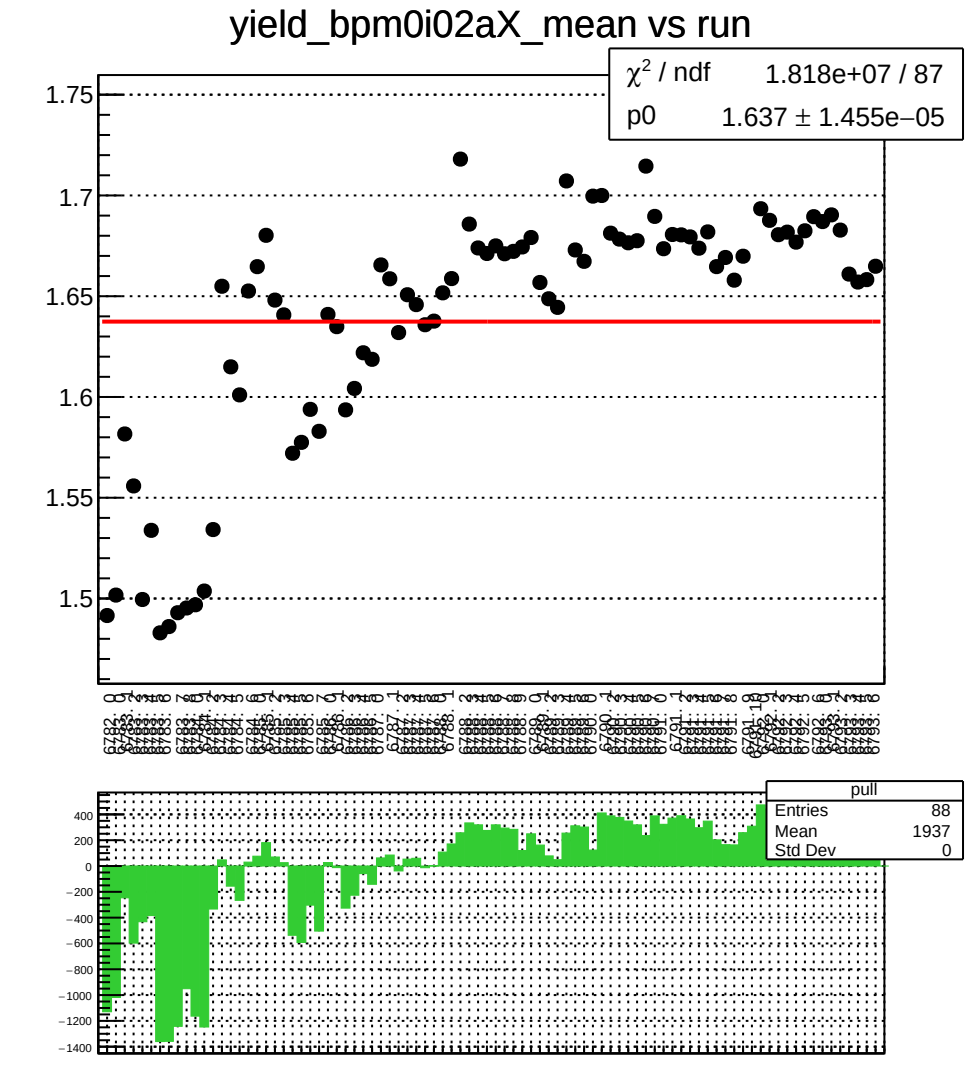

yield_bpm0i02X_mean vs run
χ² / ndf 1.49e+07 / 87
p0 −0.1573 ± 7.444e−06
pull
Entries 88
Mean 279
Std Dev 0

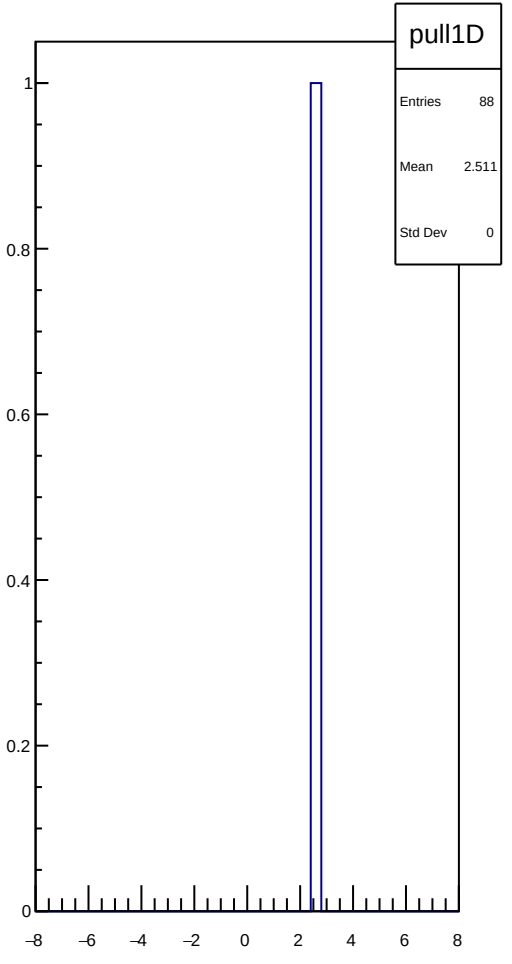

pull1D
Entries 88
Mean 6.636
Std Dev 0

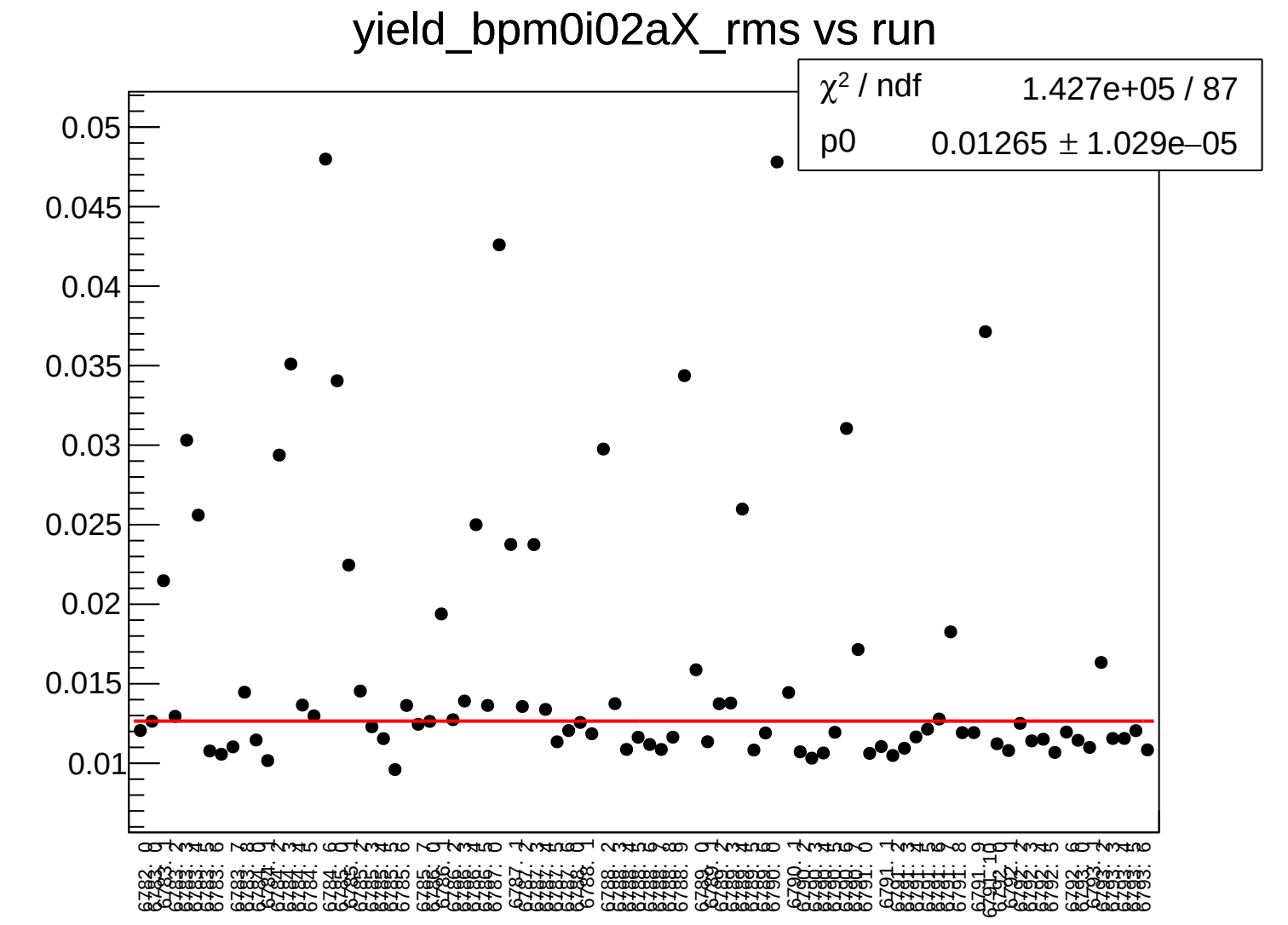

yield_bpm0i02X_rms vs run
χ² / ndf 2.489e+05 / 87
p0 0.006242 ± 5.264e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

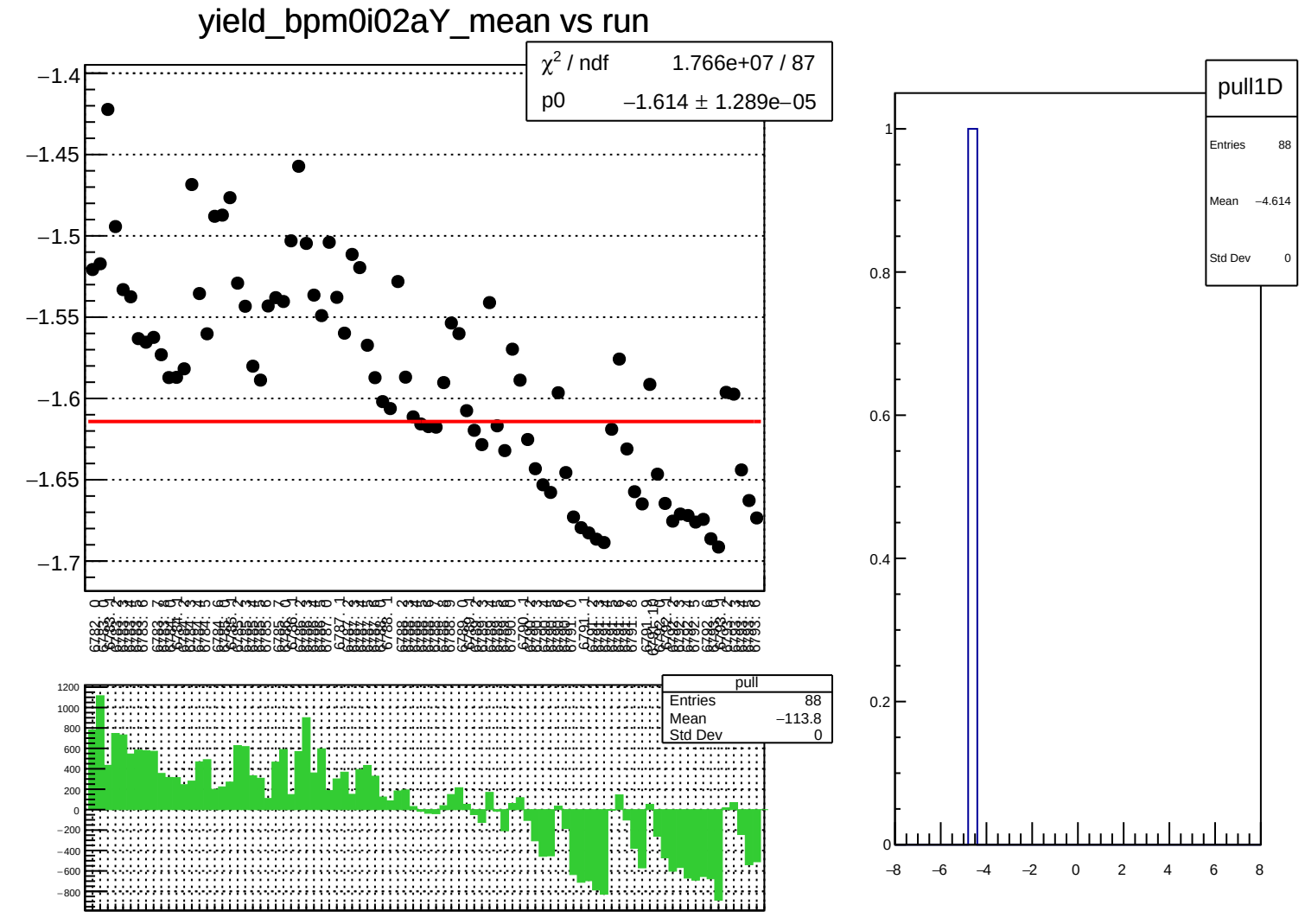

yield_bpm0i02Y_mean vs run
χ² / ndf 1.73e+07 / 87
p0 −2.809 ± 1.596e−05
−2.55
−2.6
−2.65
−2.7
−2.75
−2.8
−2.85
−2.9
pull
Entries 88
Mean −128.3
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean 0.9285
Std Dev 2.713
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

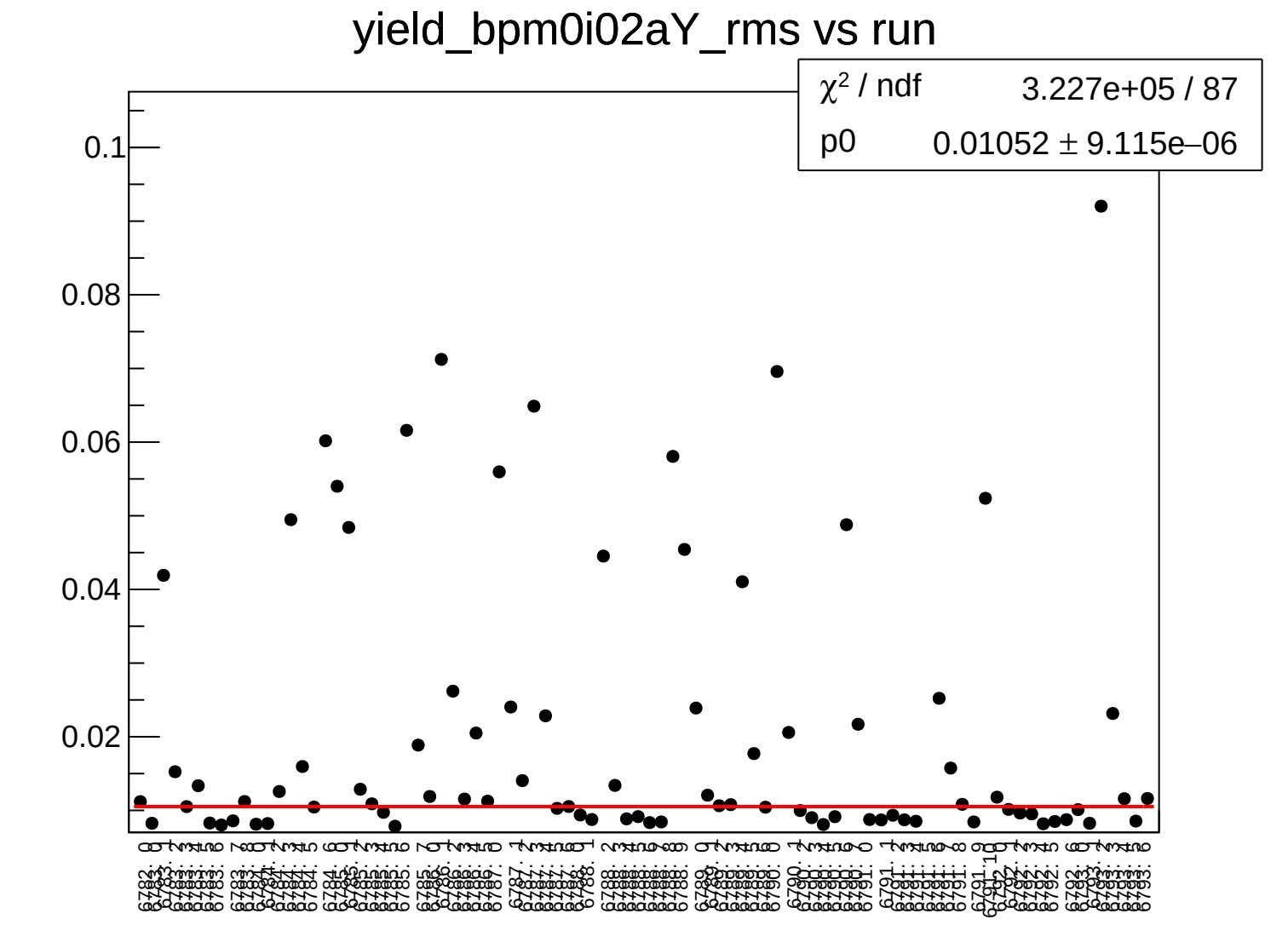

yield_bpm0i02Y_rms vs run
χ² / ndf 3.302e+05 / 87
p0 0.01299 ± 1.129e−05
0.12
0.1
0.08
0.06
0.04
0.02

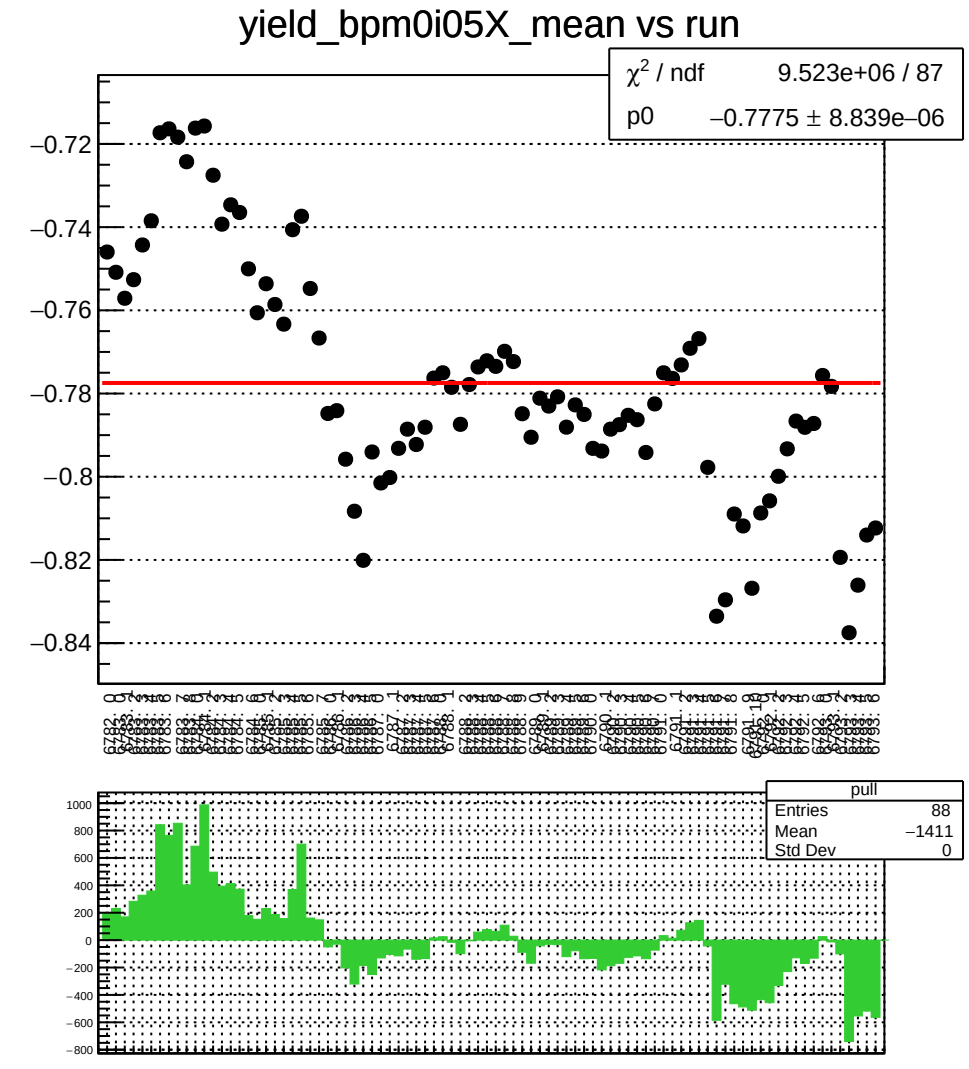

yield_bpm0i02aX_mean vs run
χ² / ndf 1.818e+07 / 87
p0 1.637 ± 1.455e−05
1.75
1.7
1.65
1.6
1.55
1.5
pull
Entries 88
Mean 1937
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

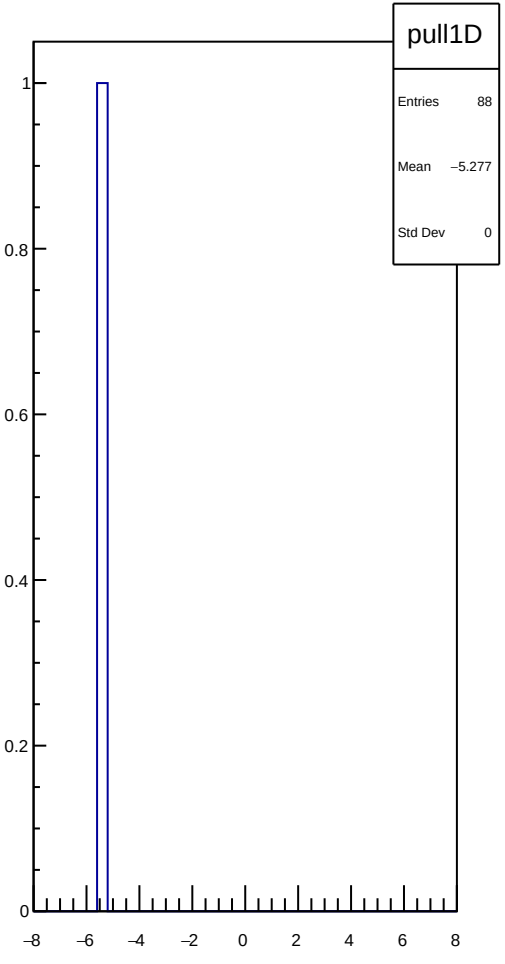

pull1D
Entries 88
Mean 2.511
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

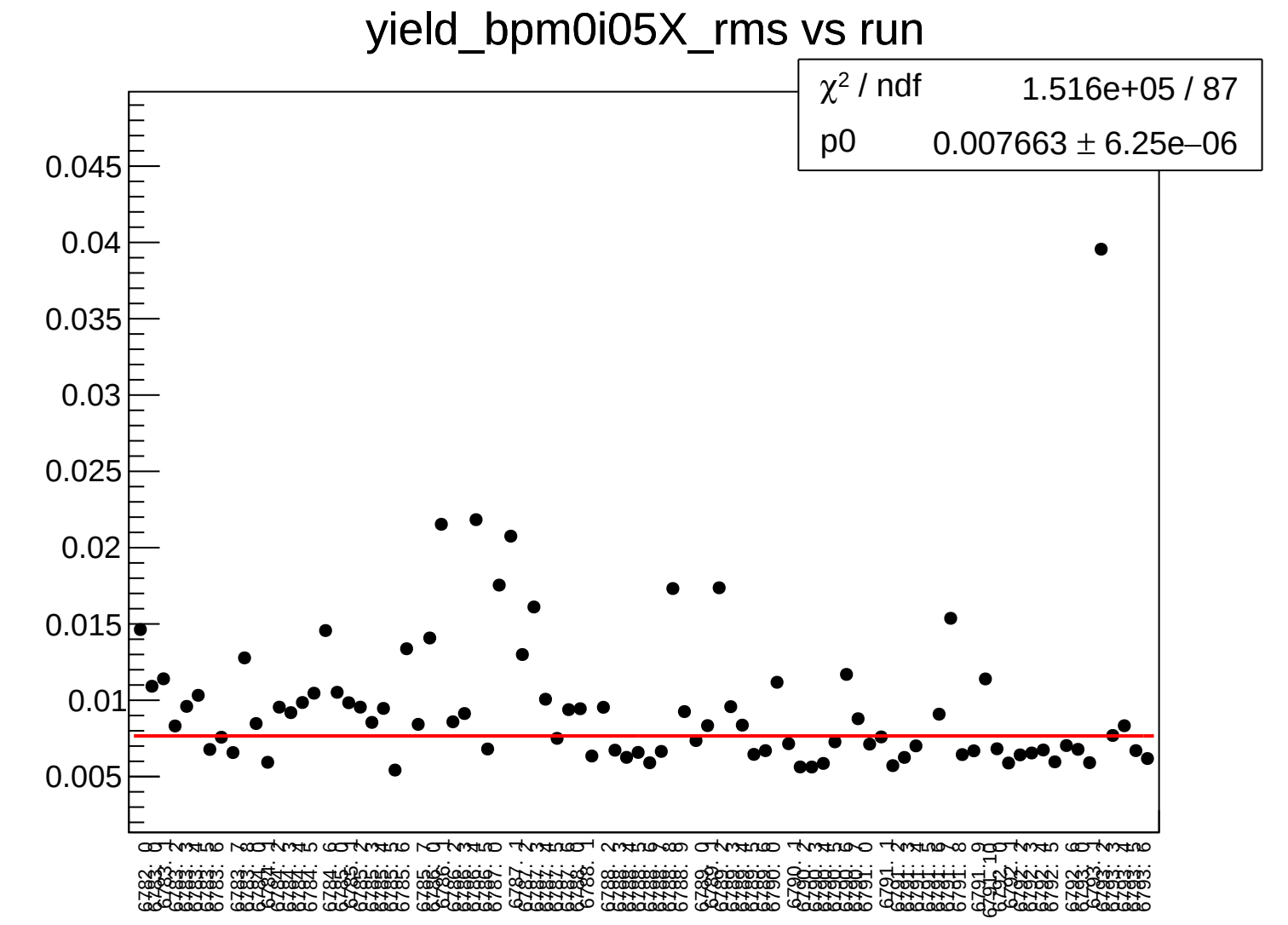

yield_bpm0i02aX_rms vs run
χ² / ndf 1.427e+05 / 87
p0 0.01265 ± 1.029e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

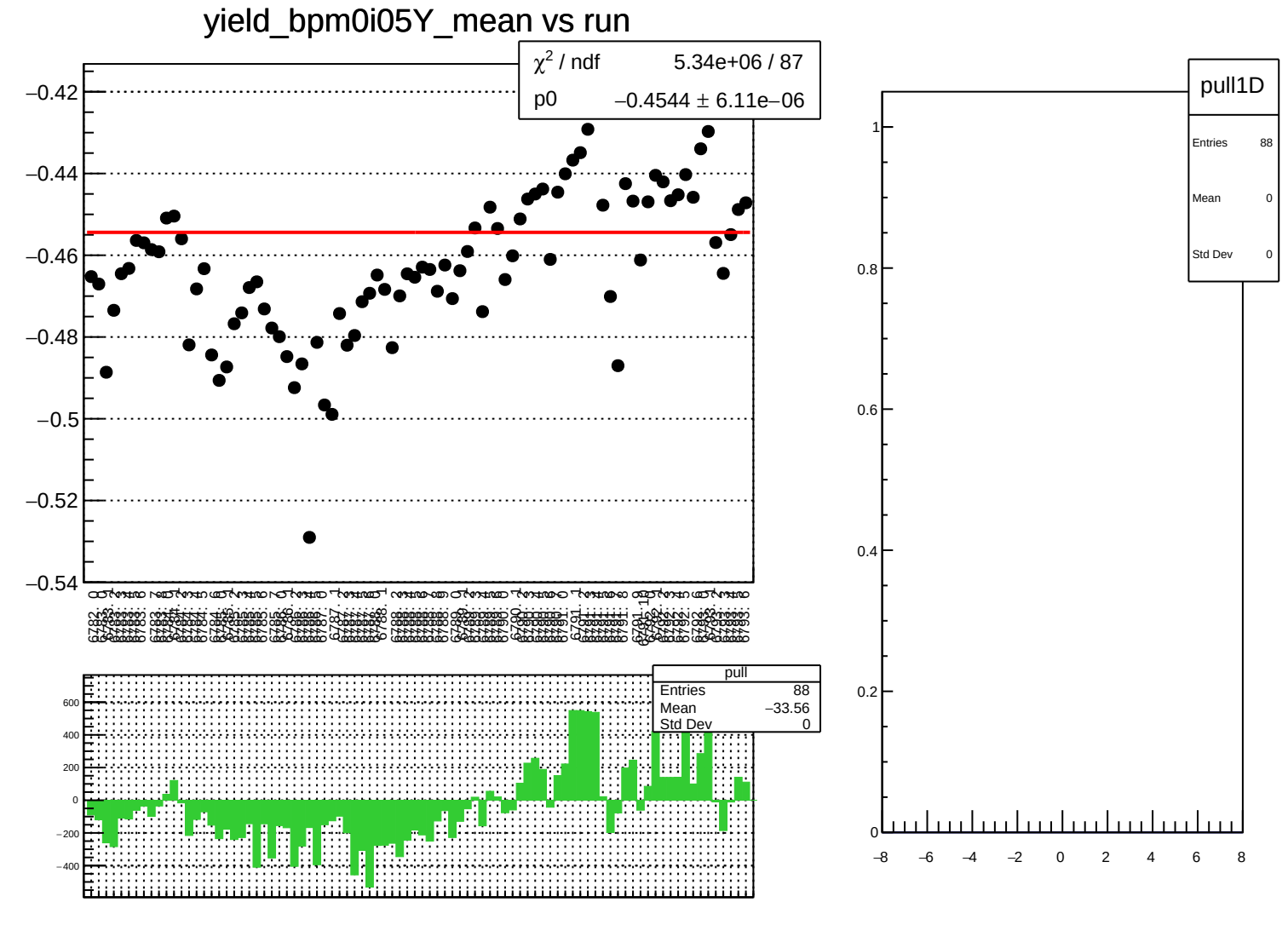

yield_bpm0i02aY_mean vs run
χ² / ndf 1.766e+07 / 87
p0 −1.614 ± 1.289e−05
−1.4
−1.45
−1.5
−1.55
−1.6
−1.65
−1.7
pull
Entries 88
Mean −113.8
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean −4.614
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

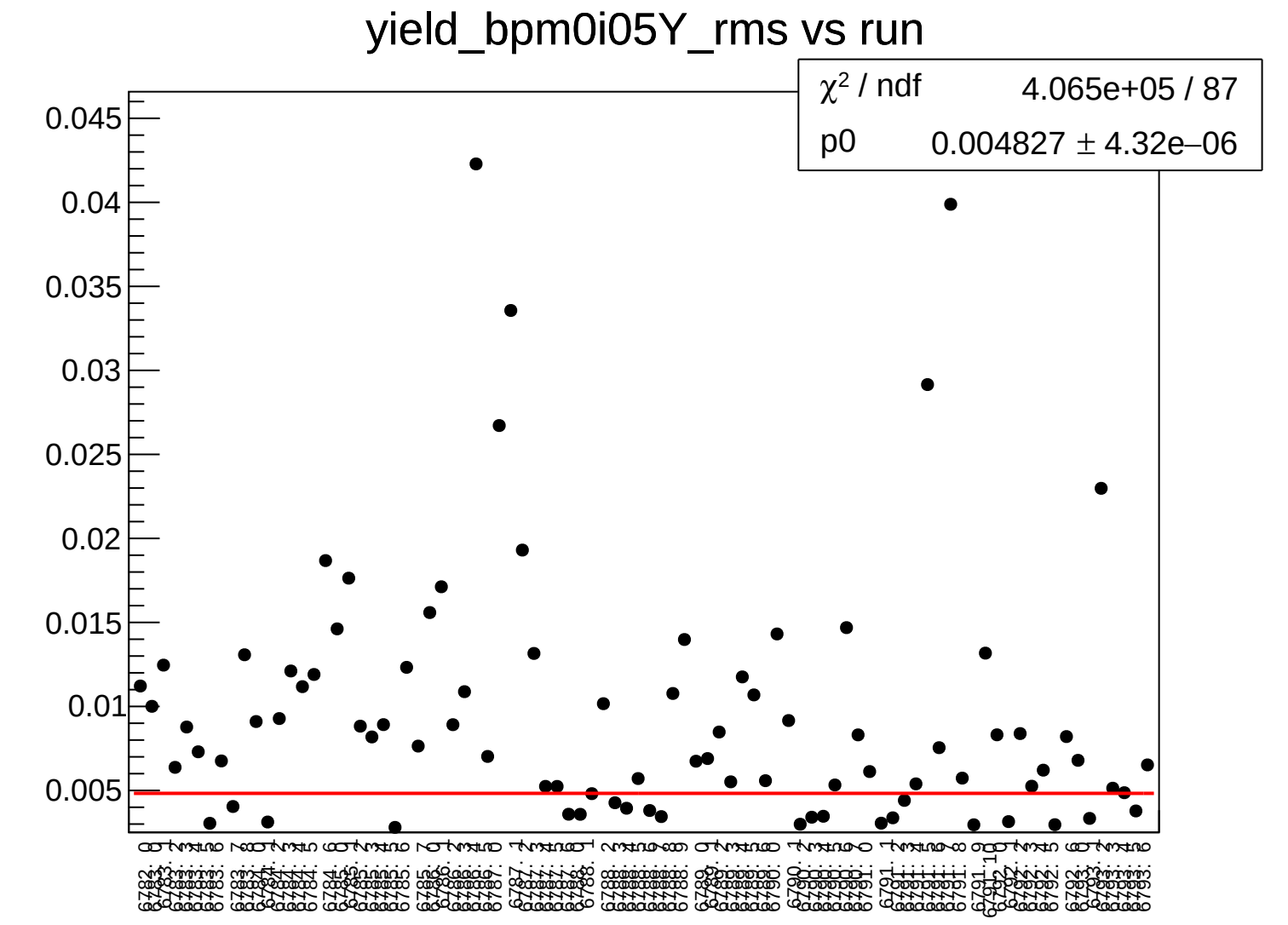

yield_bpm0i02aY_rms vs run
χ² / ndf 3.227e+05 / 87
p0 0.01052 ± 9.115e−06
0.1
0.08
0.06
0.04
0.02

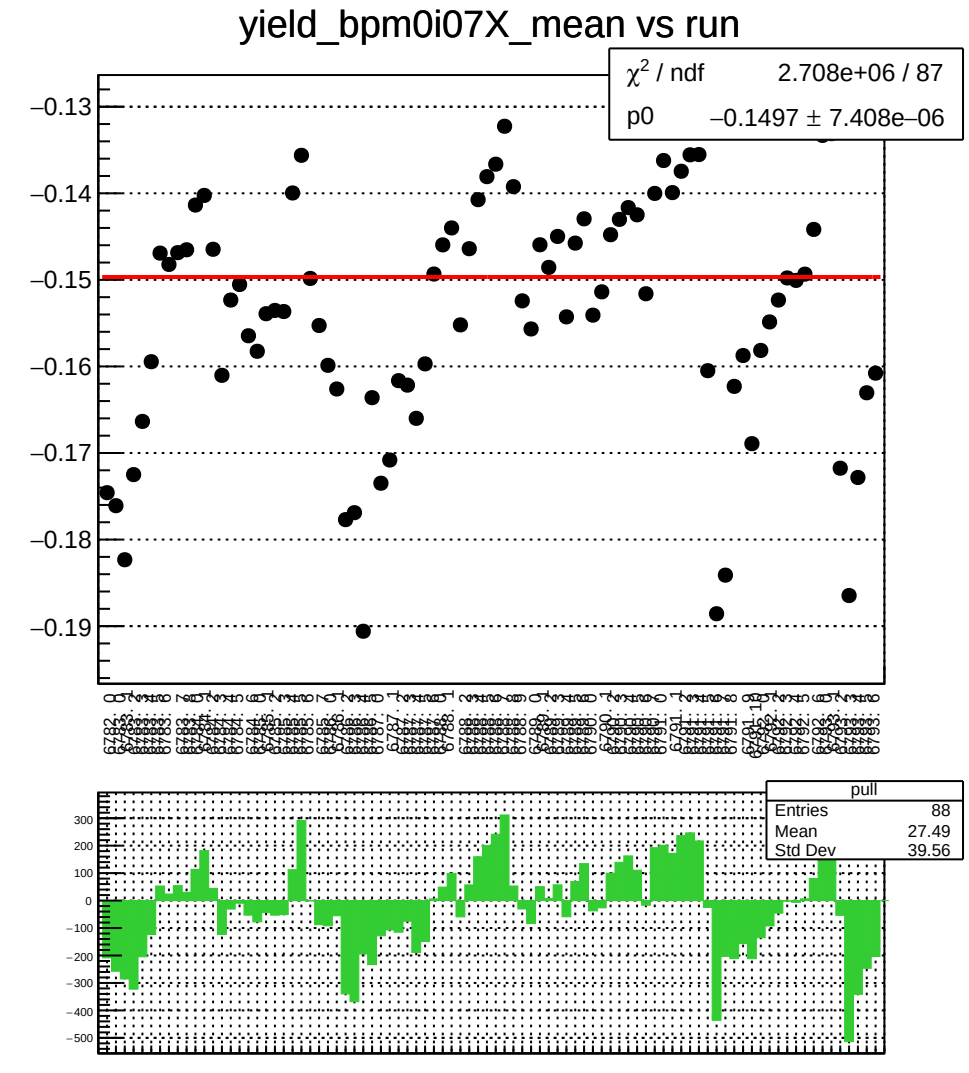

yield_bpm0i05X_mean vs run
χ² / ndf 9.523e+06 / 87
p0 −0.7775 ± 8.839e−06
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
pull
Entries 88
Mean −1411
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

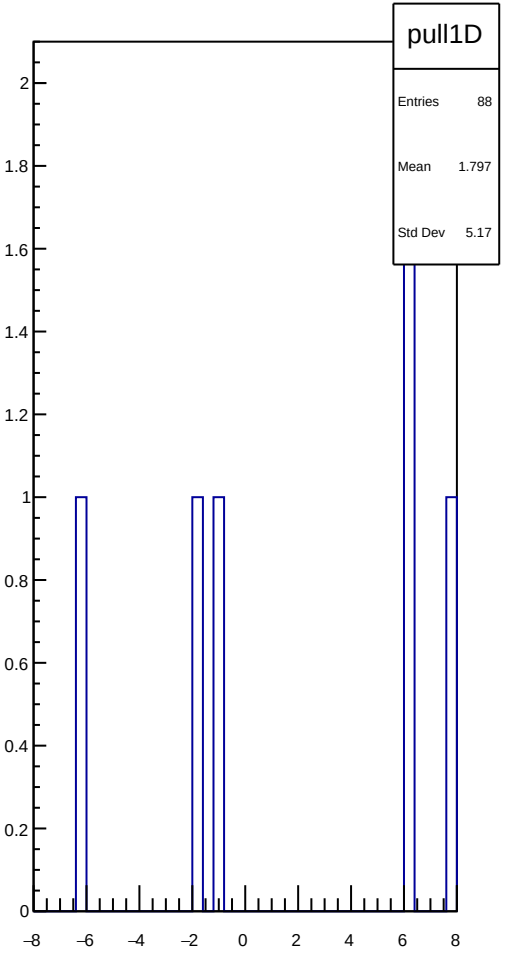

pull1D
Entries 88
Mean −5.277
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

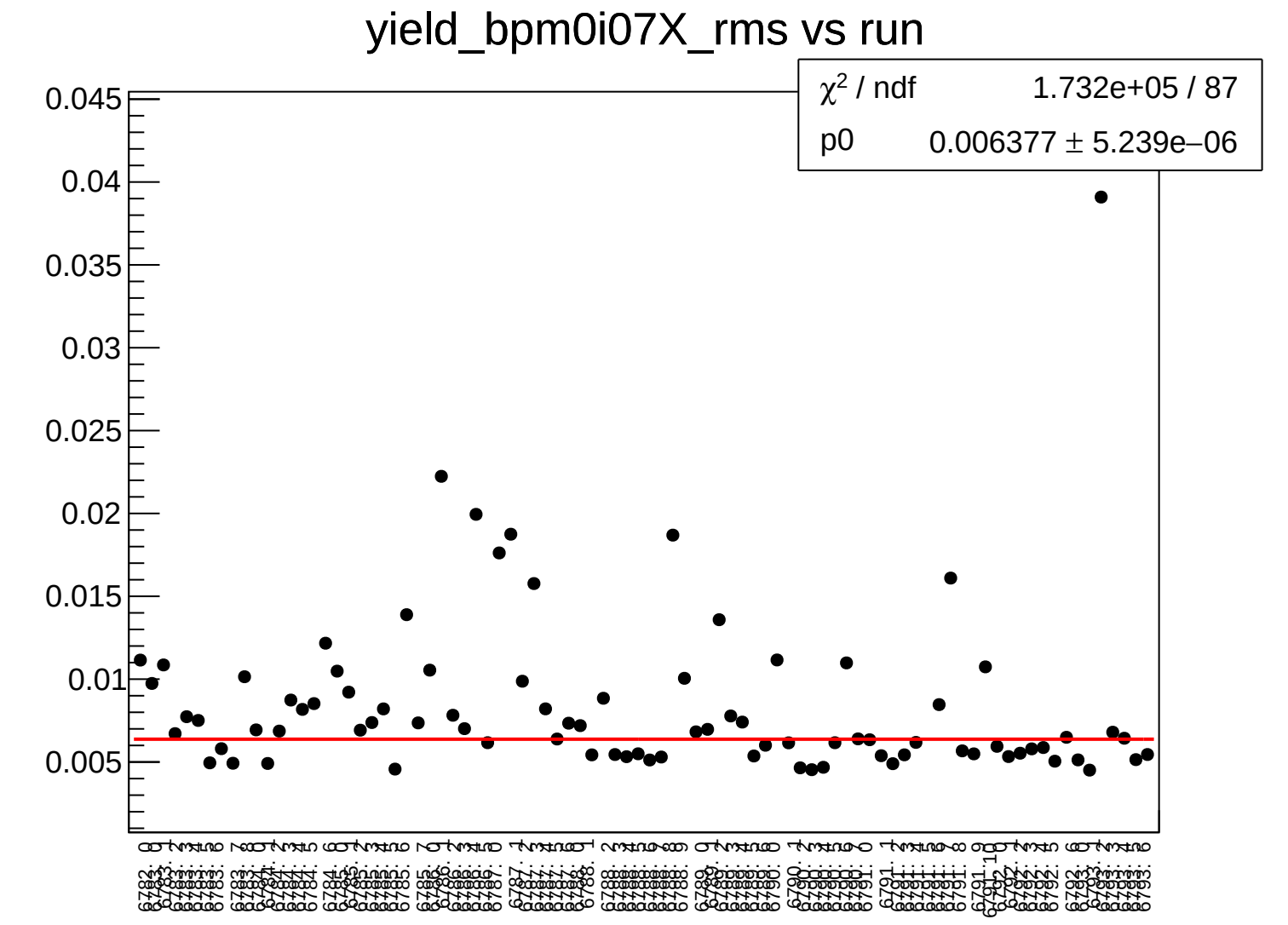

yield_bpm0i05X_rms vs run
χ² / ndf 1.516e+05 / 87
p0 0.007663 ± 6.25e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

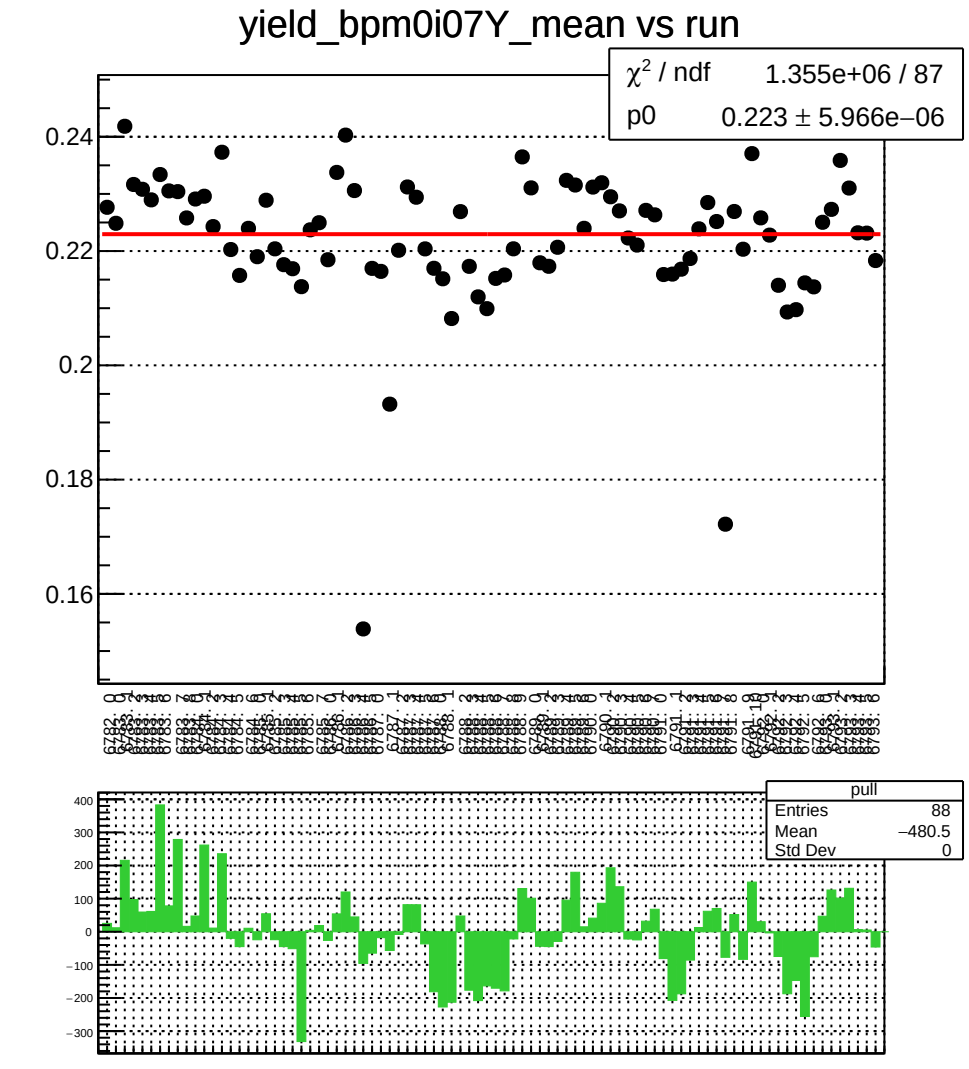

yield_bpm0i05Y_mean vs run
χ² / ndf 5.34e+06 / 87
p0 −0.4544 ± 6.11e−06
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 88
Mean −33.56
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

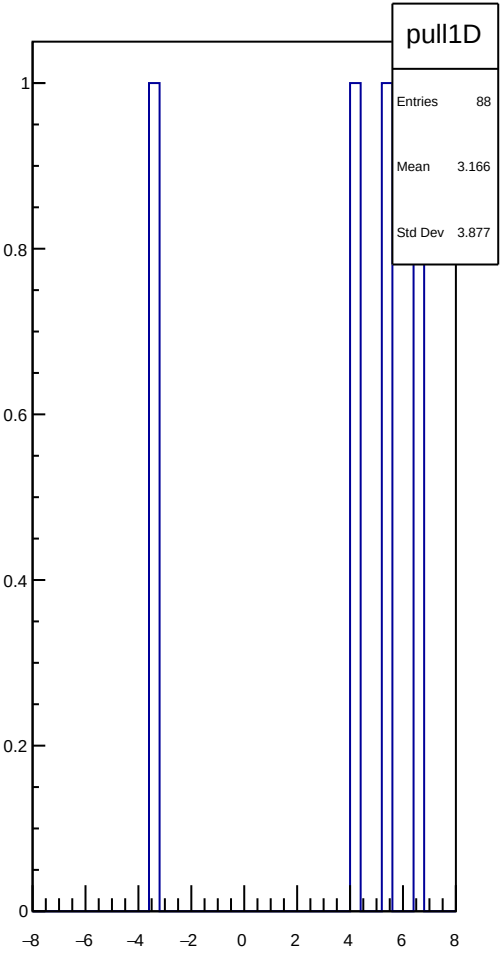

yield_bpm0i05Y_rms vs run
χ² / ndf 4.065e+05 / 87
p0 0.004827 ± 4.32e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

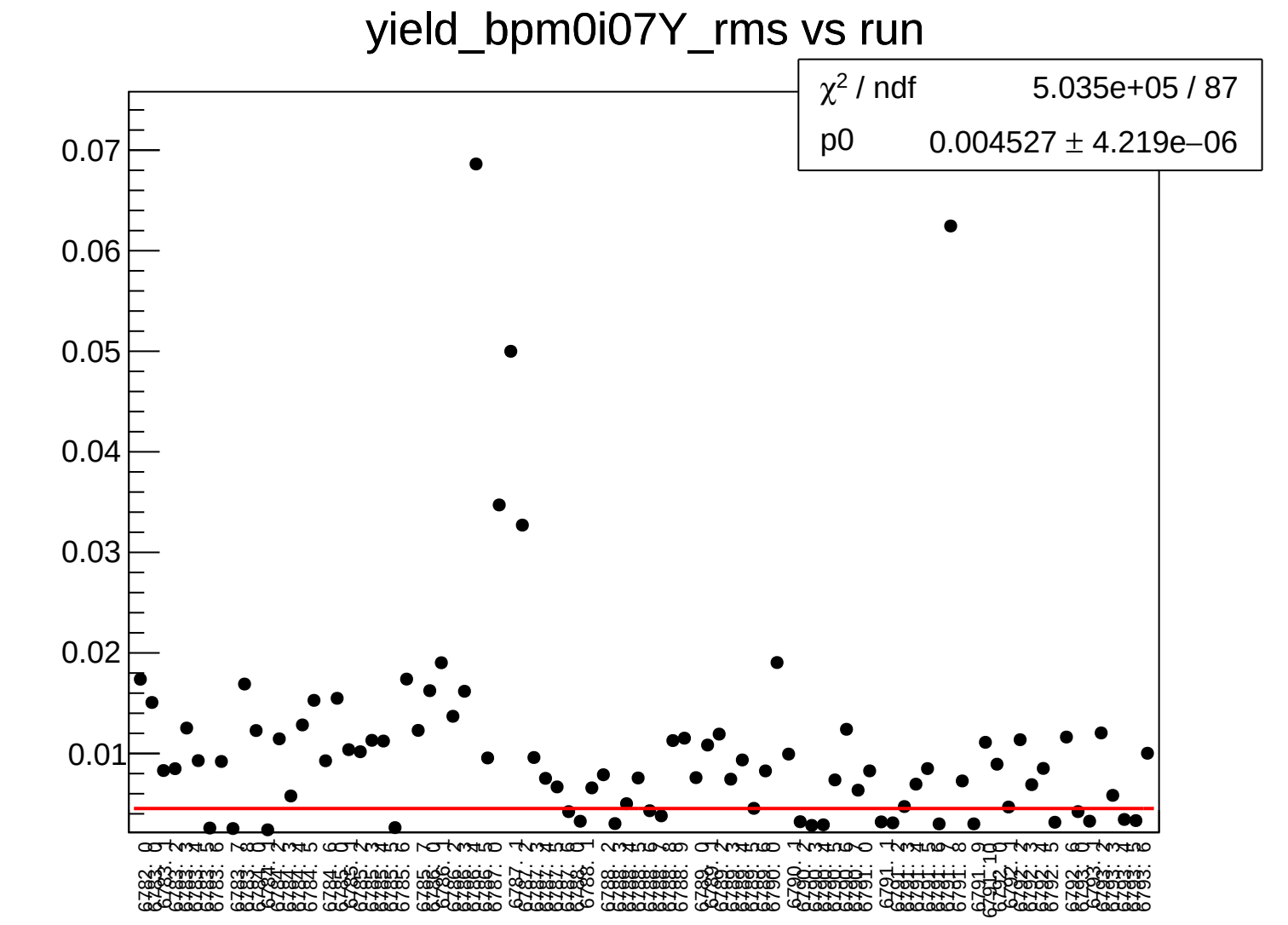

yield_bpm0i07X_mean vs run
χ² / ndf 2.708e+06 / 87
p0 −0.1497 ± 7.408e−06
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
pull
Entries 88
Mean 27.49
Std Dev 39.56
300
200
100
0
−100
−200
−300
−400
−500

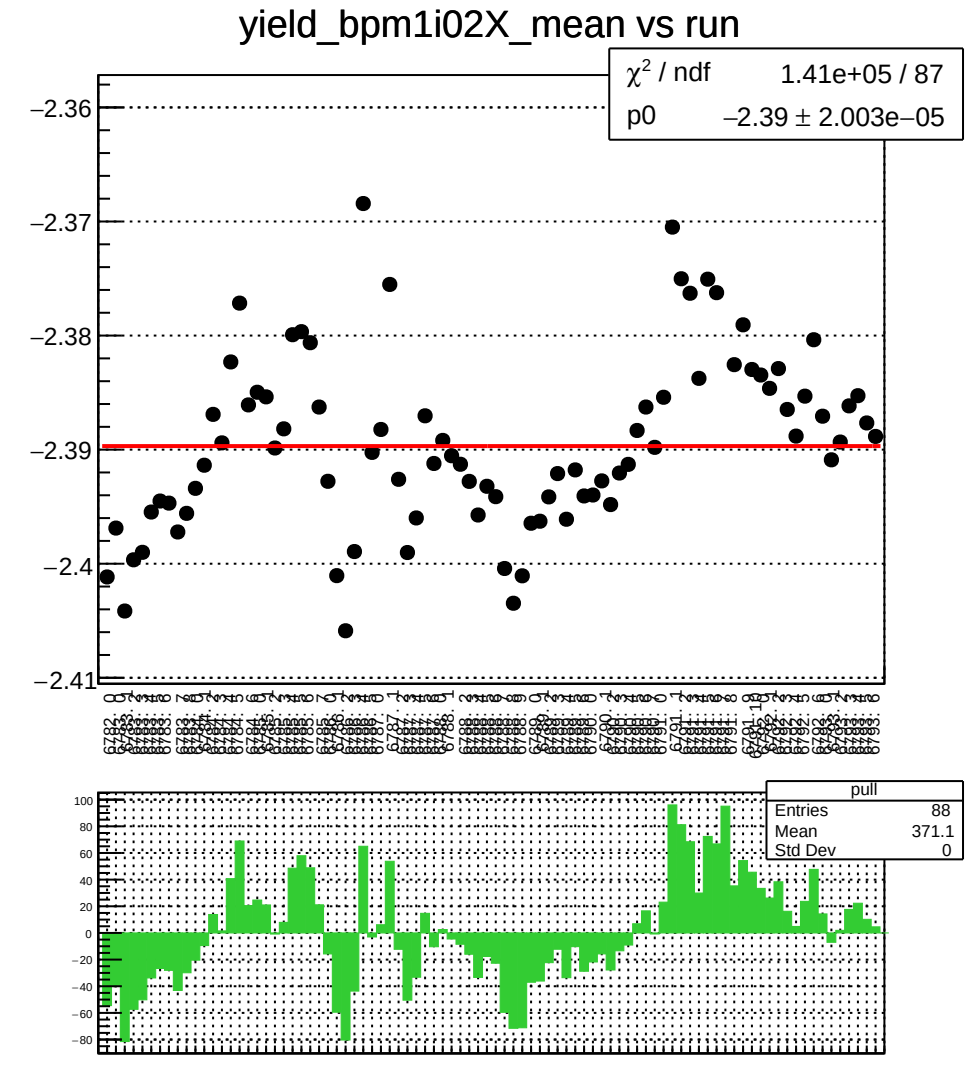

pull1D
Entries 88
Mean 1.797
Std Dev 5.17
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

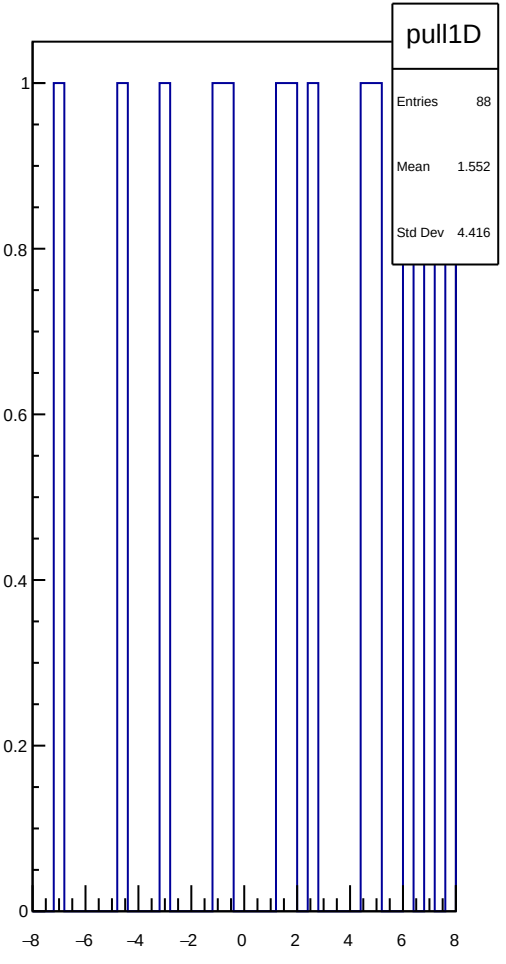

yield_bpm0i07X_rms vs run
χ² / ndf 1.732e+05 / 87
p0 0.006377 ± 5.239e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

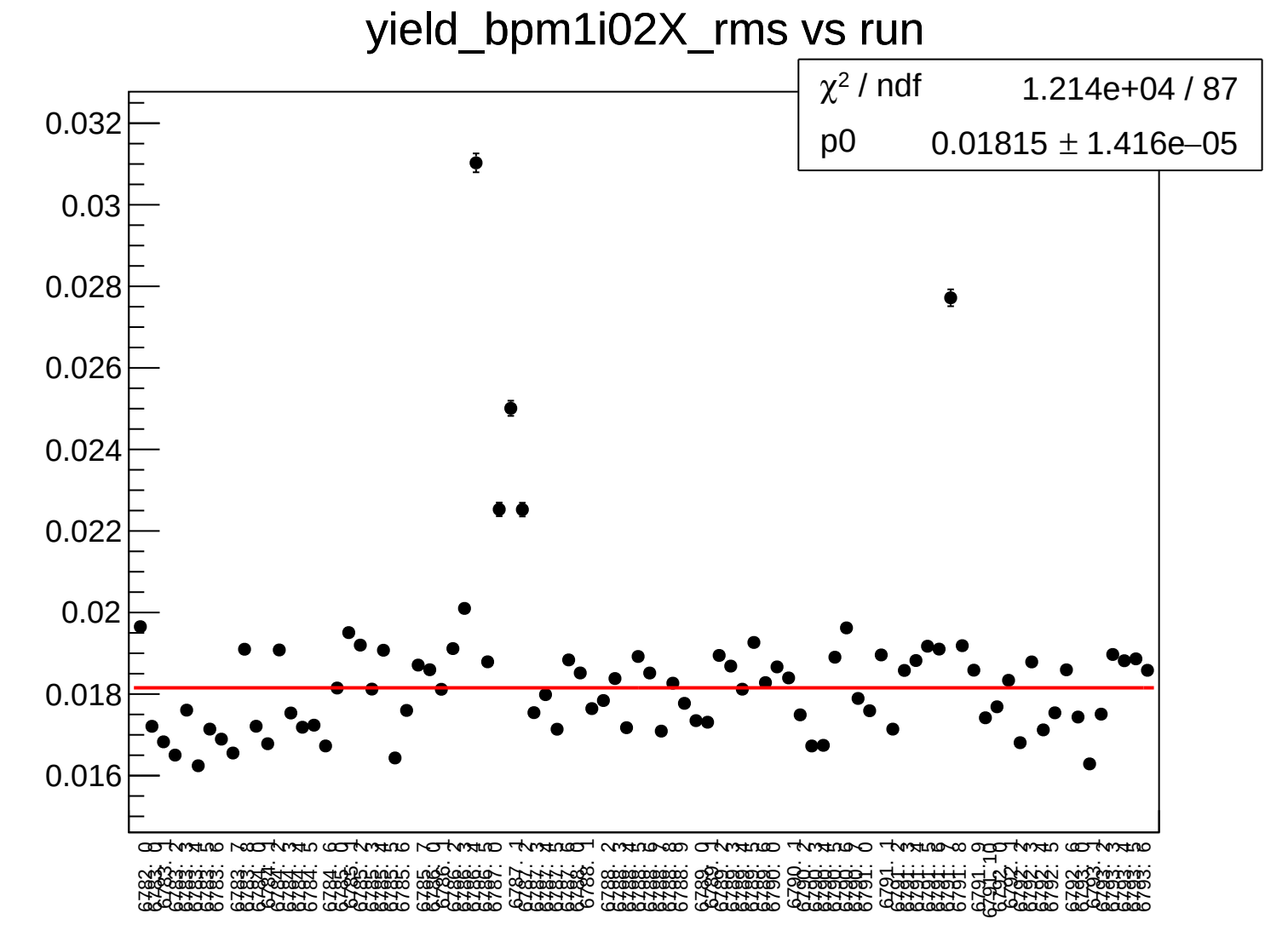

yield_bpm0i07Y_mean vs run
χ² / ndf 1.355e+06 / 87
p0 0.223 ± 5.966e−06
0.24
0.22
0.2
0.18
0.16
pull
Entries 88
Mean −480.5
Std Dev 0
400
300
200
100
0
−100
−200
−300

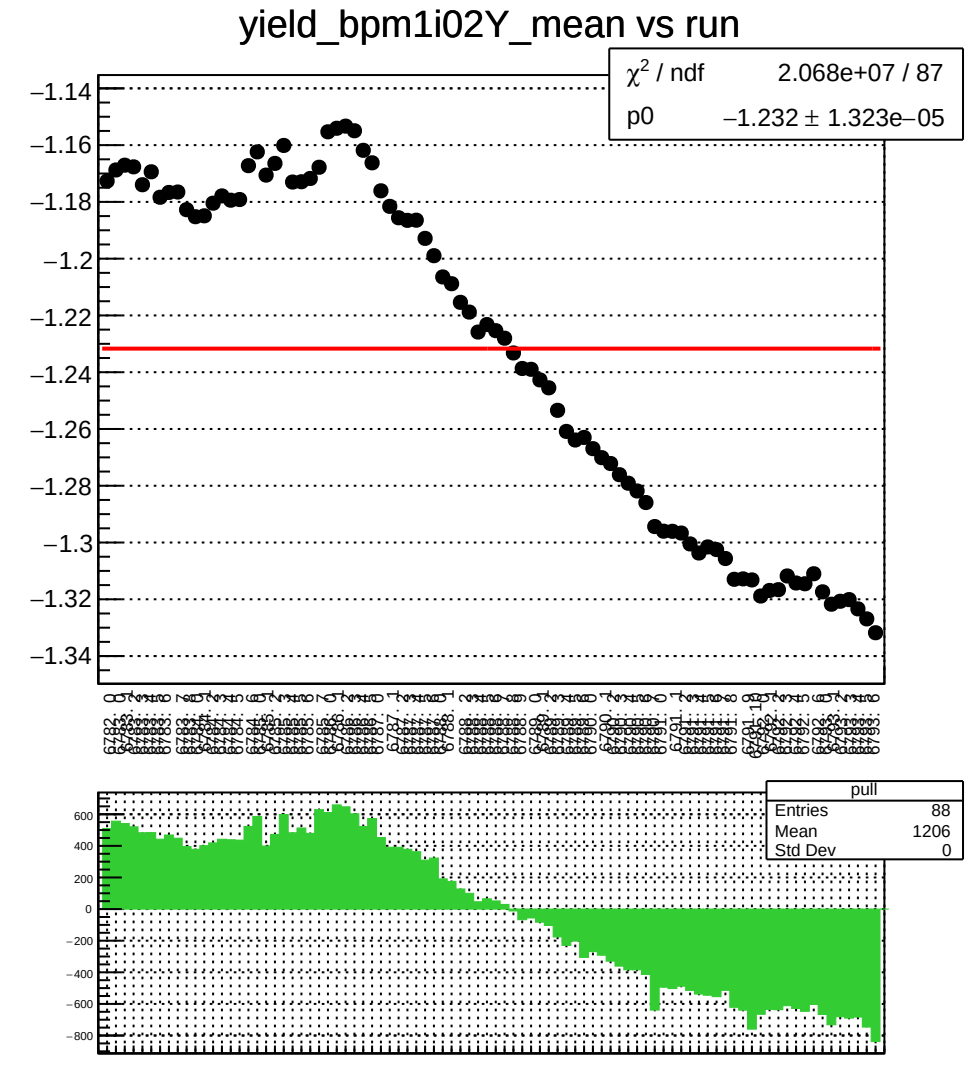

pull1D
Entries 88
Mean 3.166
Std Dev 3.877
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

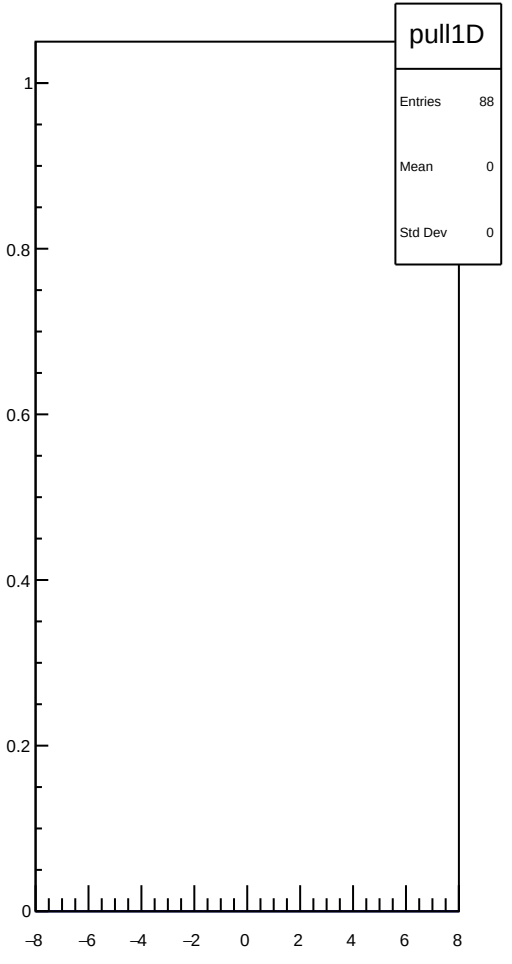

yield_bpm0i07Y_rms vs run
χ² / ndf 5.035e+05 / 87
p0 0.004527 ± 4.219e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

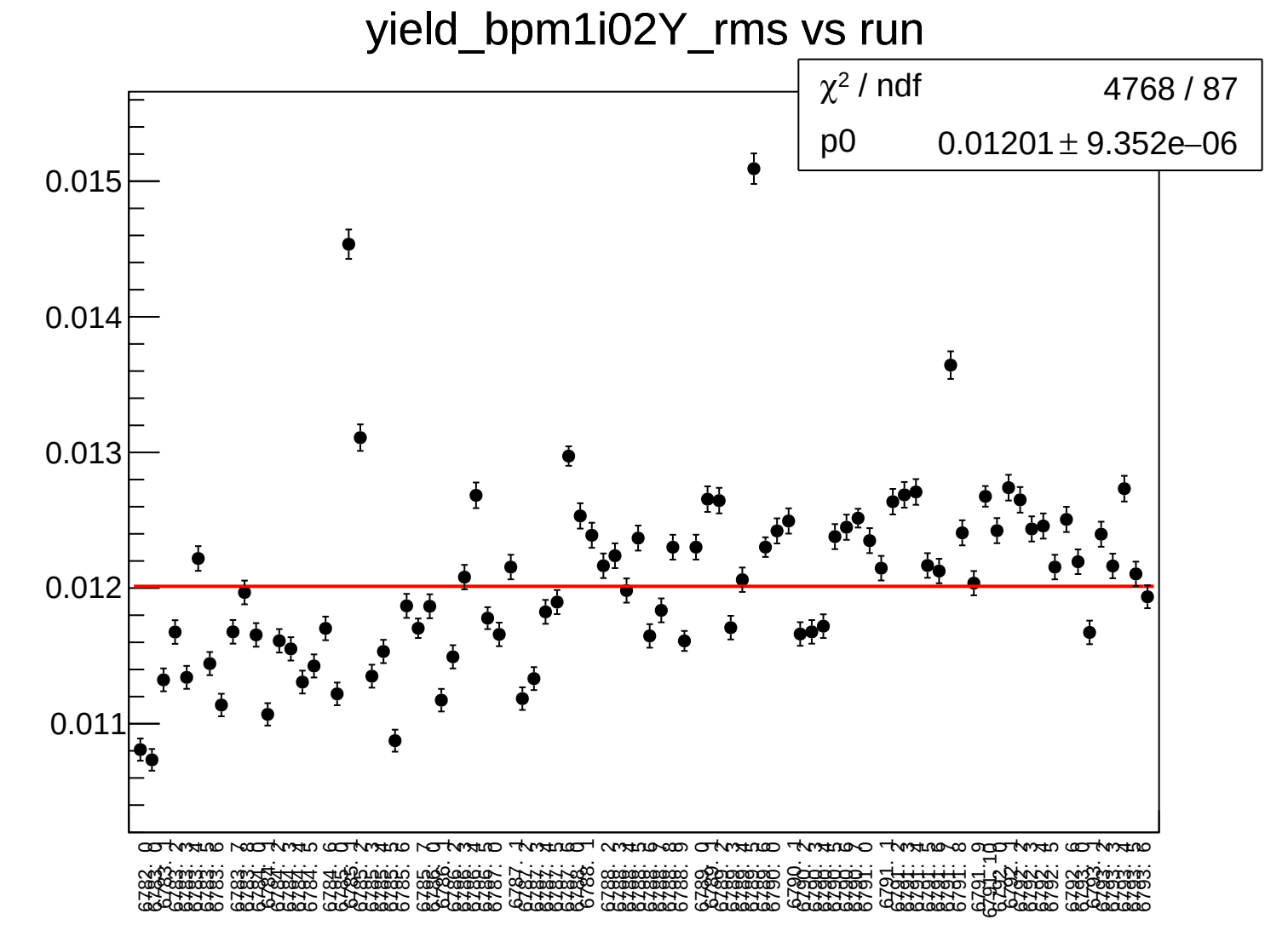

yield_bpm1i02X_mean vs run
χ² / ndf 1.41e+05 / 87
p0 −2.39 ± 2.003e−05
−2.36
−2.37
−2.38
−2.39
−2.4
−2.41
pull
Entries 88
Mean 371.1
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

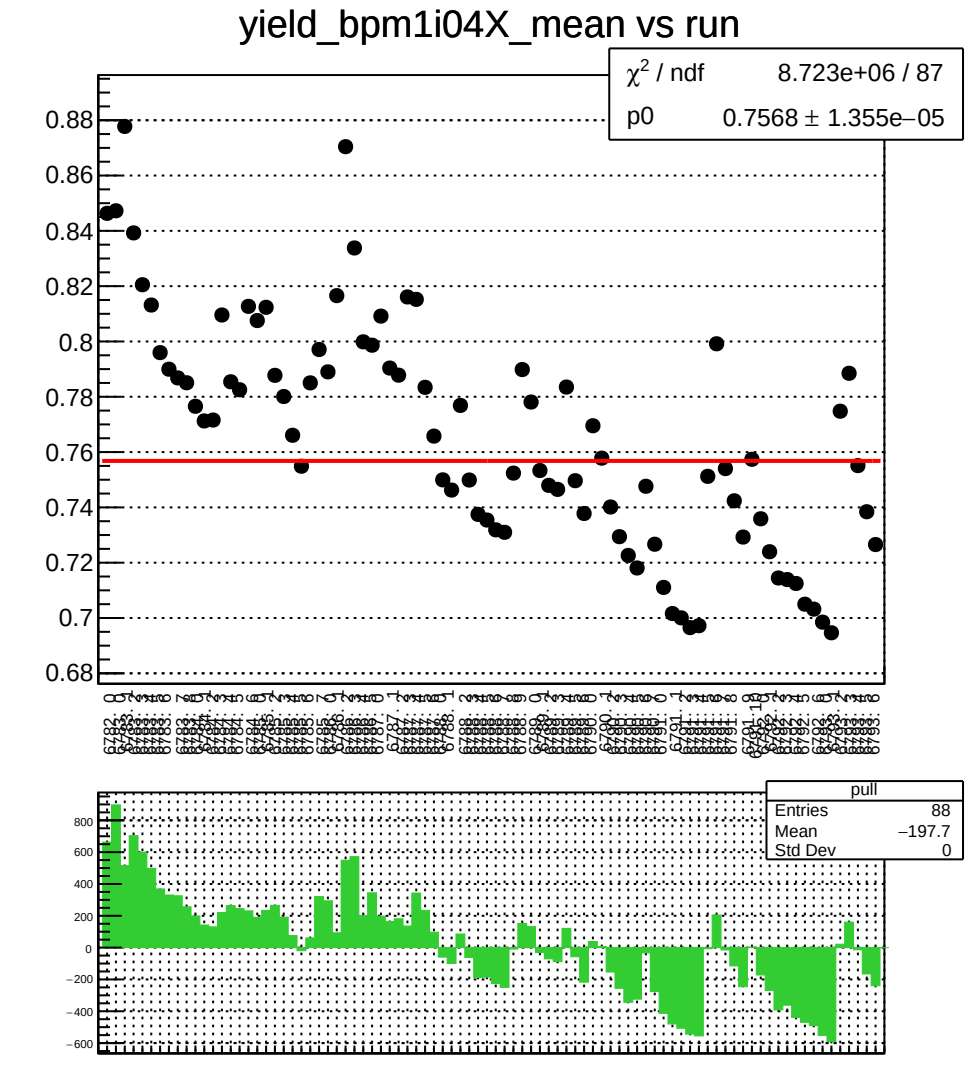

pull1D
Entries 88
Mean 1.552
Std Dev 4.416
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

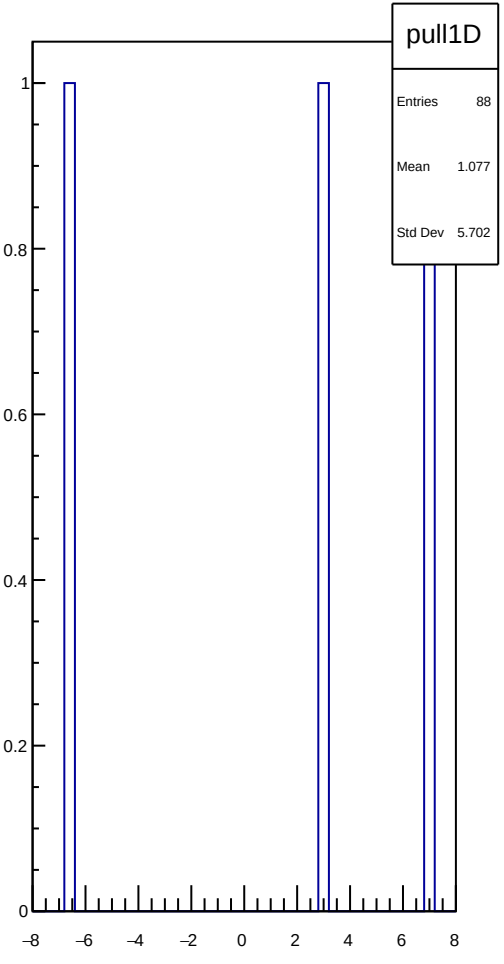

yield_bpm1i02X_rms vs run
χ² / ndf 1.214e+04 / 87
p0 0.01815 ± 1.416e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

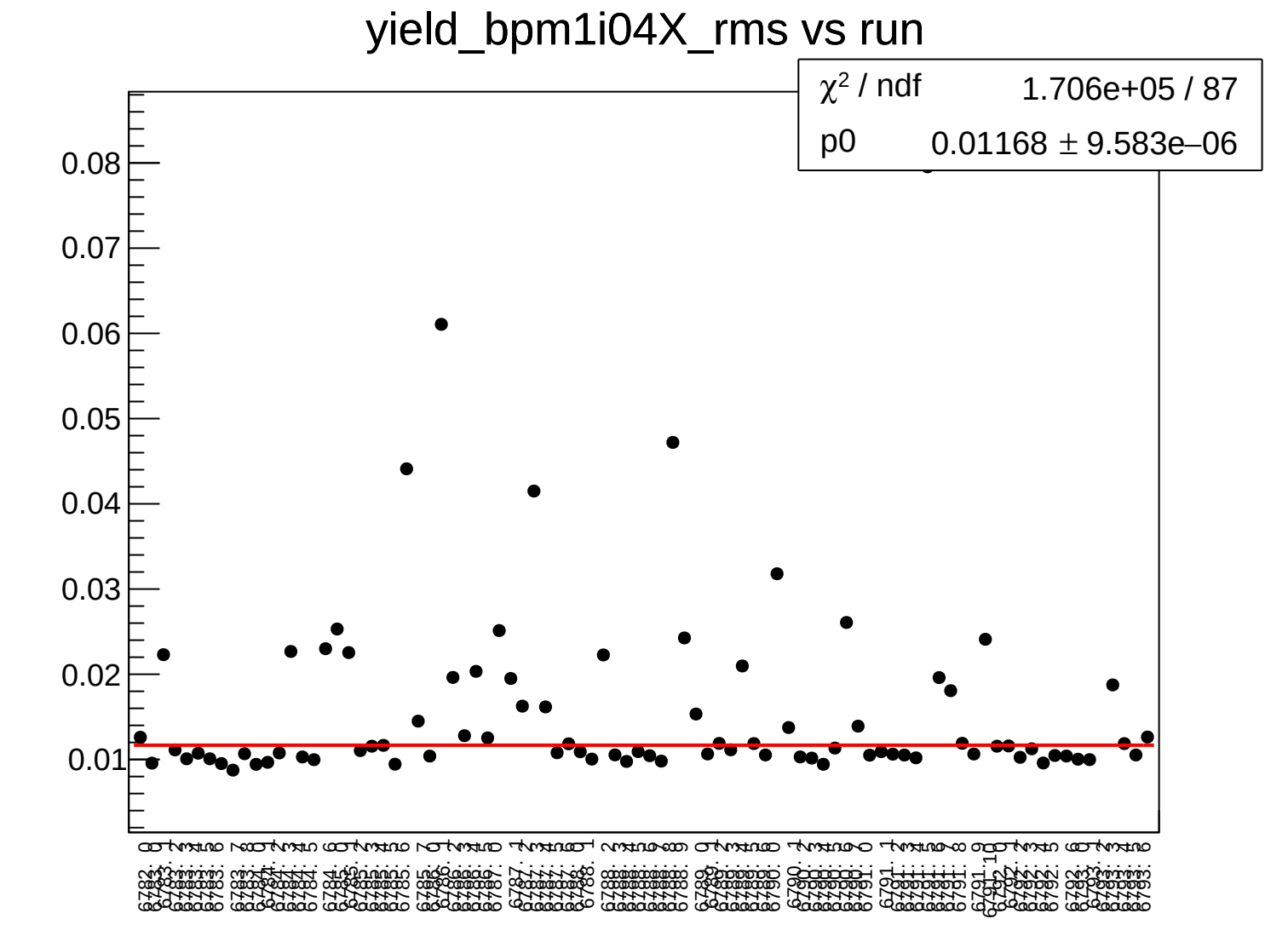

yield_bpm1i02Y_mean vs run
χ² / ndf 2.068e+07 / 87
p0 −1.232 ± 1.323e−05
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
pull
Entries 88
Mean 1206
Std Dev 0
600
400
200
0
−200
−400
−600
−800

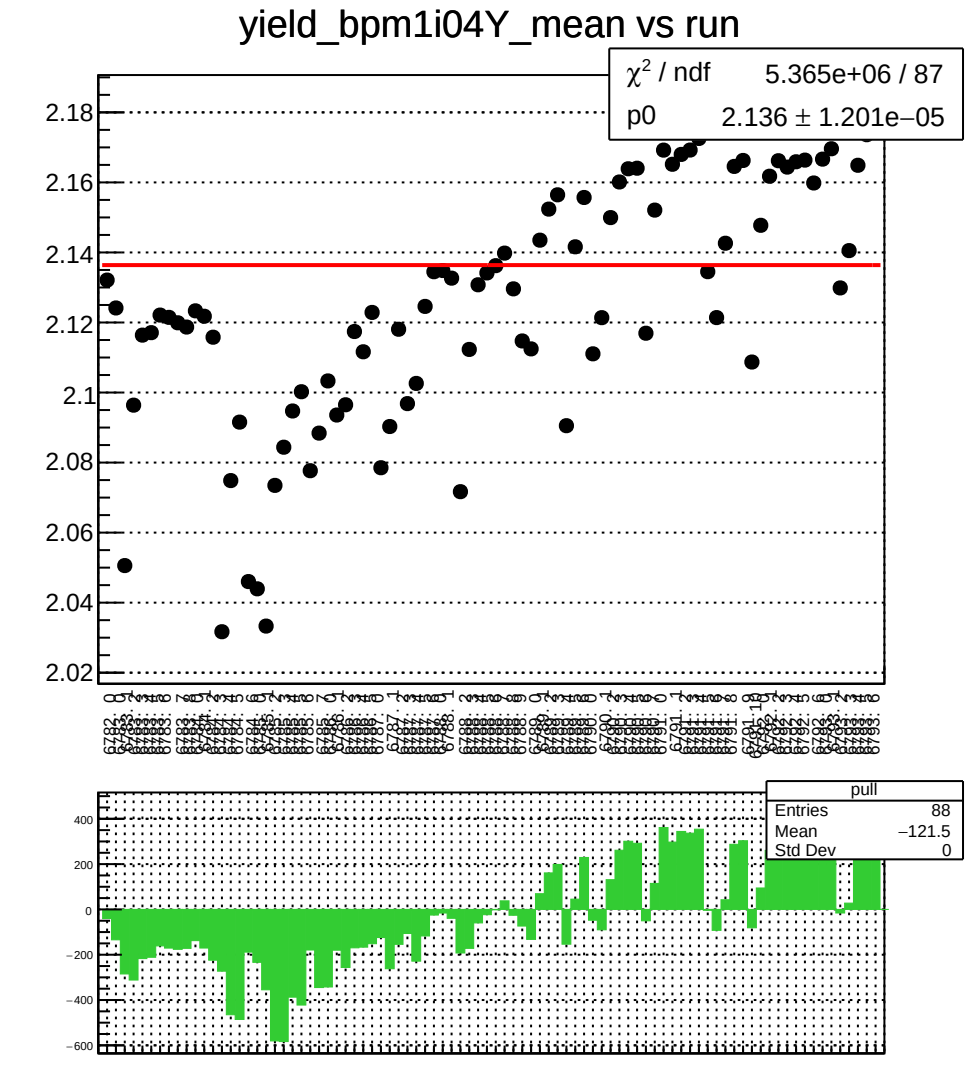

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

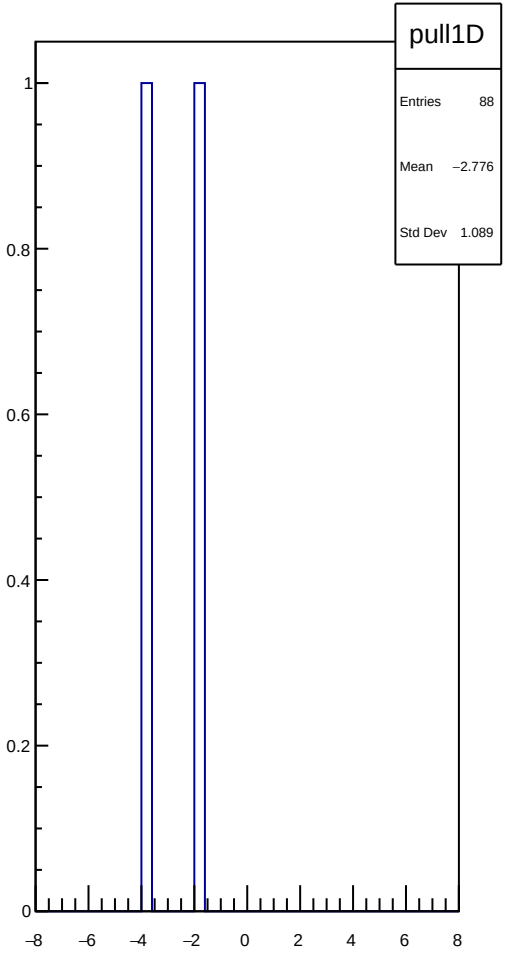

yield_bpm1i02Y_rms vs run
χ² / ndf 4768 / 87
p0 0.01201 ± 9.352e–06
0.015
0.014
0.013
0.012
0.011

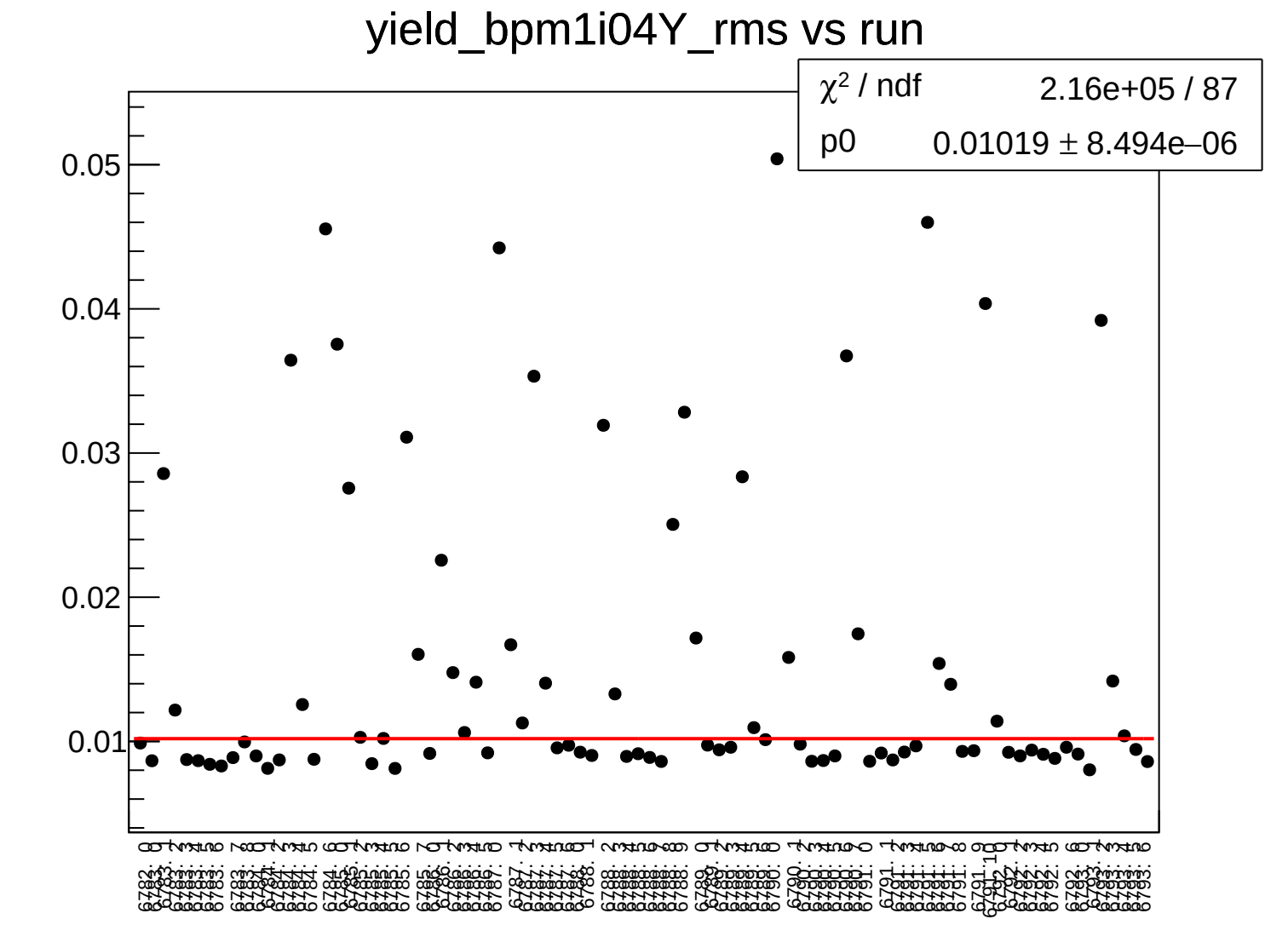

yield_bpm1i04X_mean vs run
χ² / ndf 8.723e+06 / 87
p0 0.7568 ± 1.355e−05
pull
Entries 88
Mean −197.7
Std Dev 0

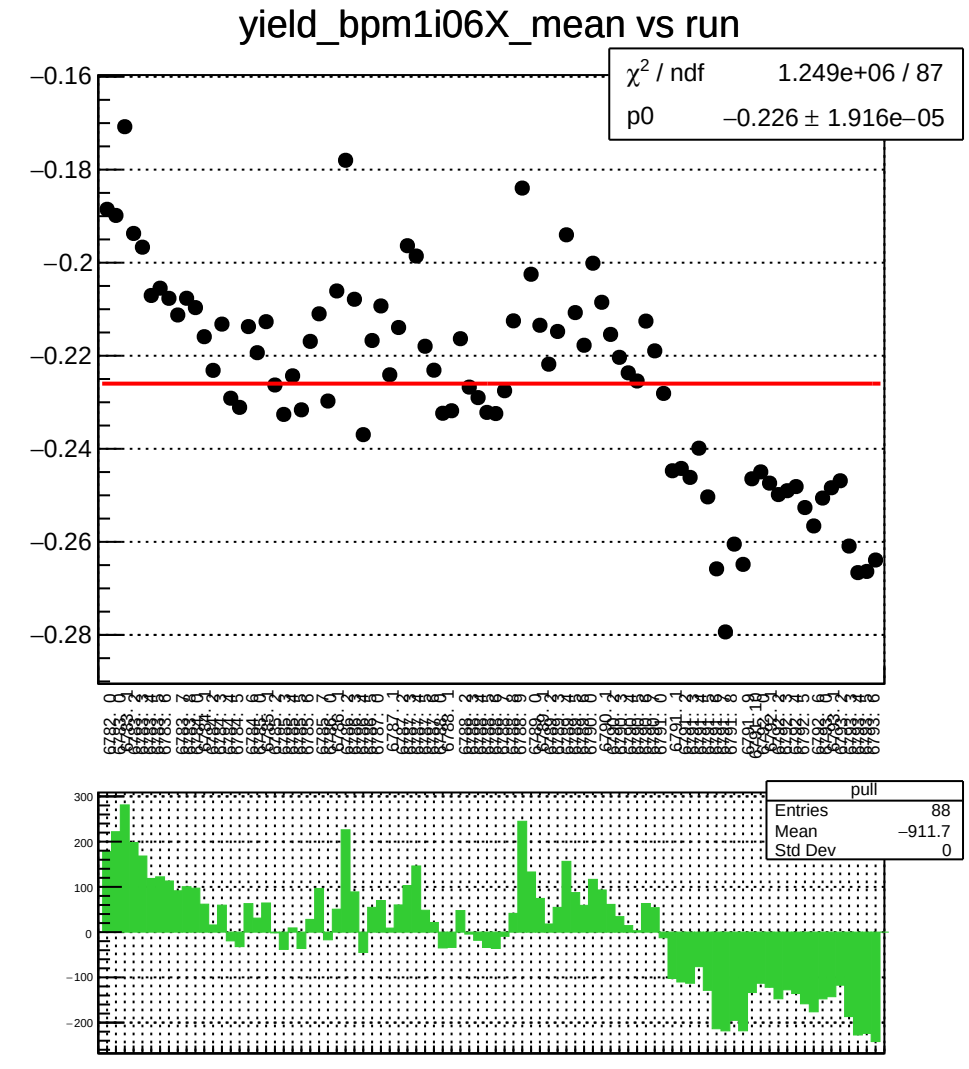

pull1D
Entries 88
Mean 1.077
Std Dev 5.702

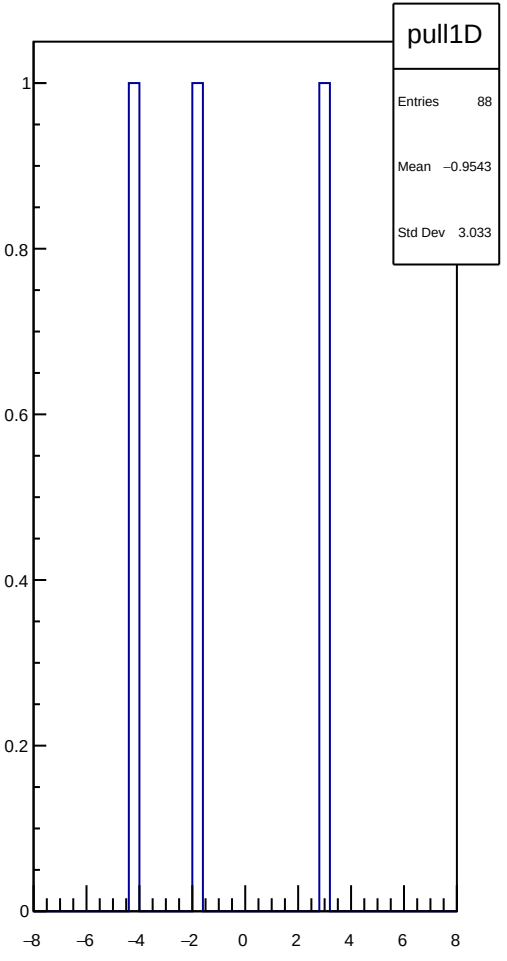

yield_bpm1i04X_rms vs run
χ² / ndf 1.706e+05 / 87
p0 0.01168 ± 9.583e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

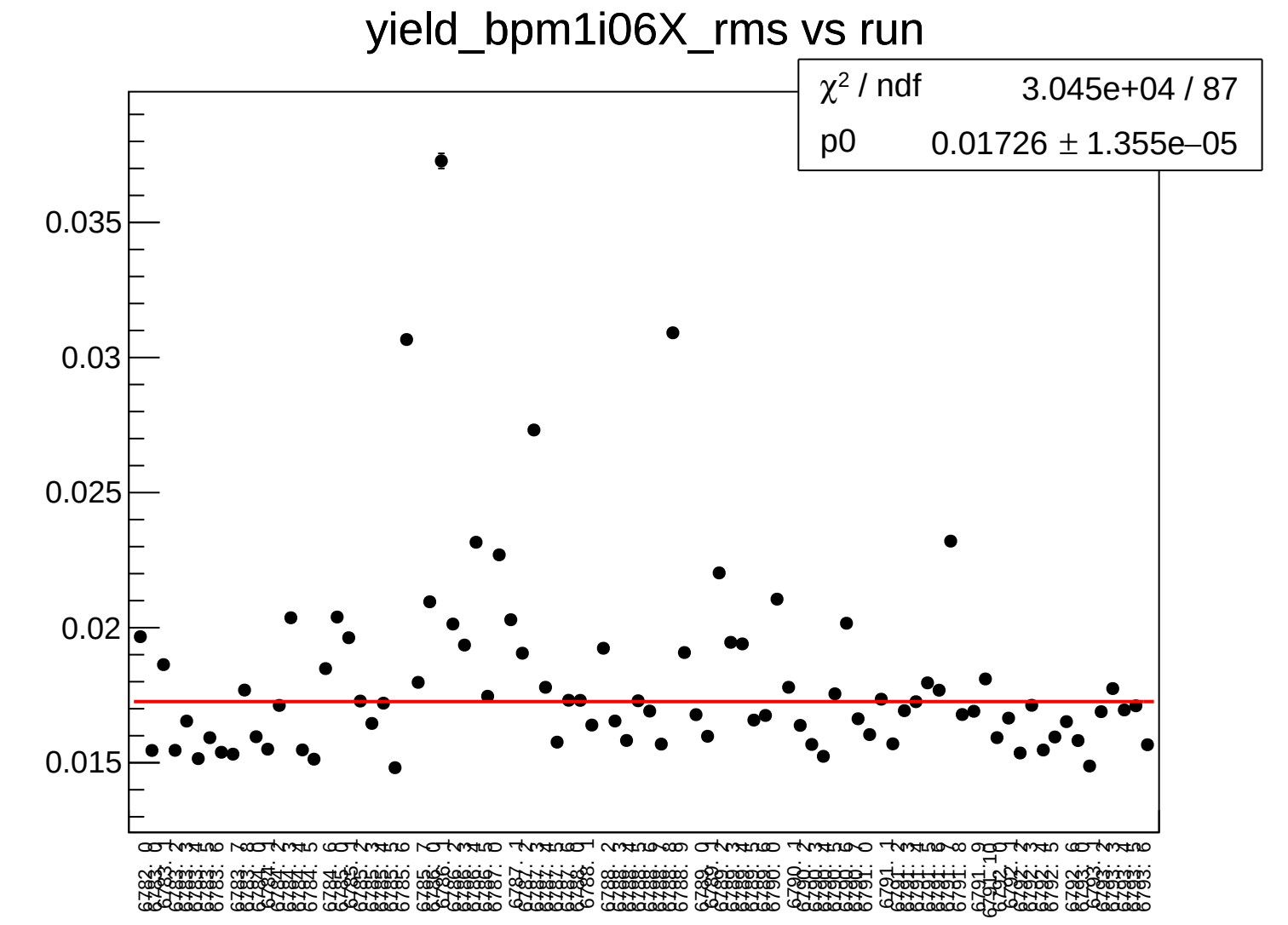

yield_bpm1i04Y_mean vs run
χ² / ndf 5.365e+06 / 87
p0 2.136 ± 1.201e−05
2.18
2.16
2.14
2.12
2.1
2.08
2.06
2.04
2.02
pull
Entries 88
Mean −121.5
Std Dev 0
400
200
0
−200
−400
−600

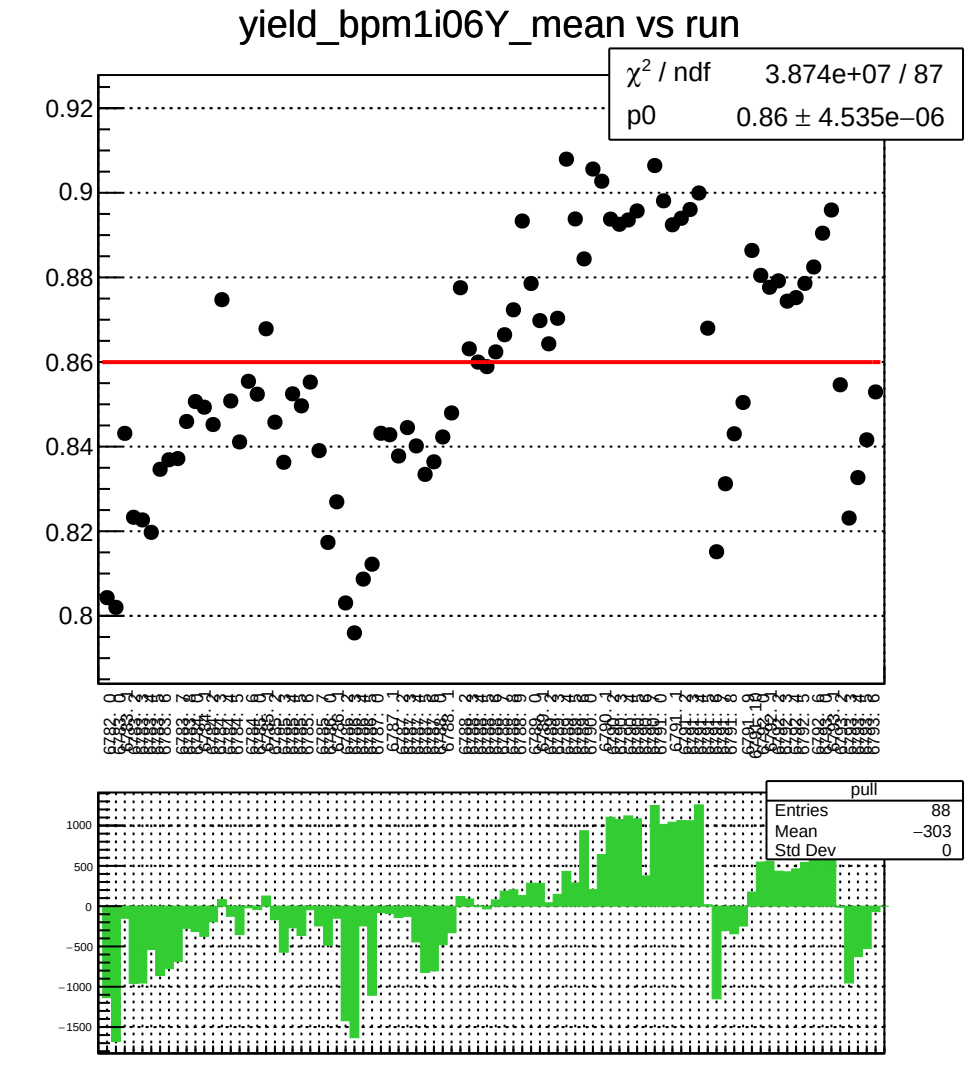

pull1D
Entries 88
Mean −2.776
Std Dev 1.089
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

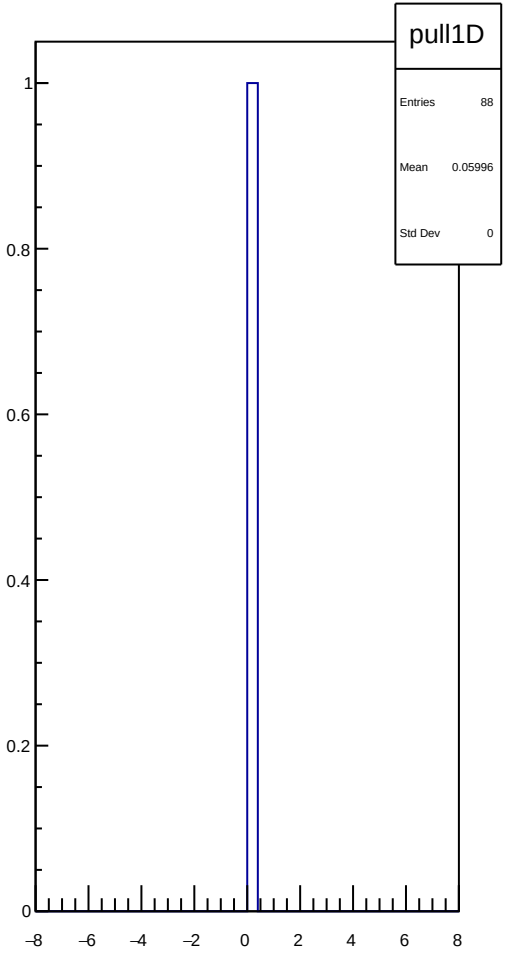

yield_bpm1i04Y_rms vs run
χ² / ndf 2.16e+05 / 87
p0 0.01019 ± 8.494e−06
0.05
0.04
0.03
0.02
0.01

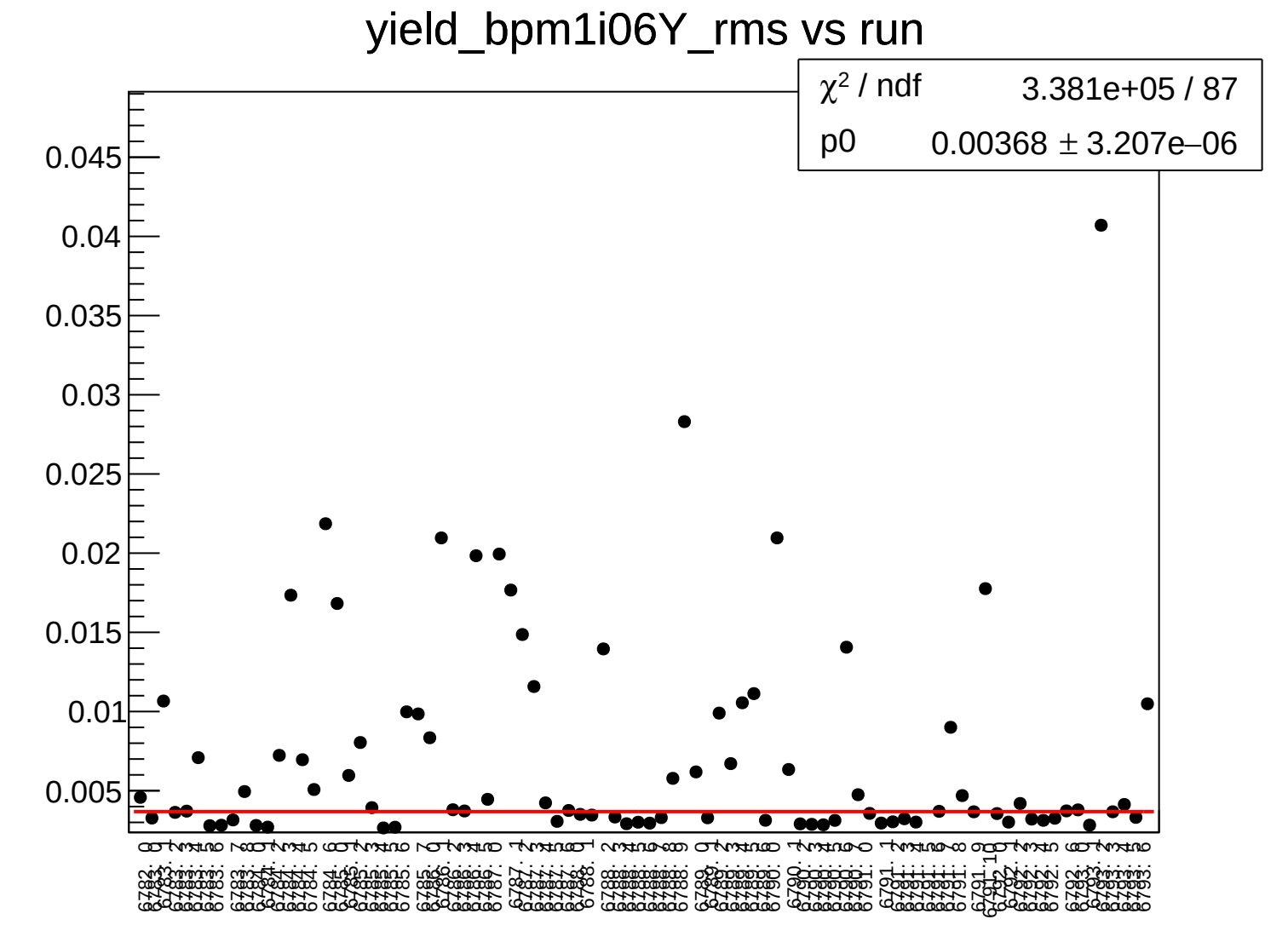

yield_bpm1i06X_mean vs run
χ² / ndf 1.249e+06 / 87
p0 −0.226 ± 1.916e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 88
Mean −911.7
Std Dev 0
300
200
100
0
−100
−200

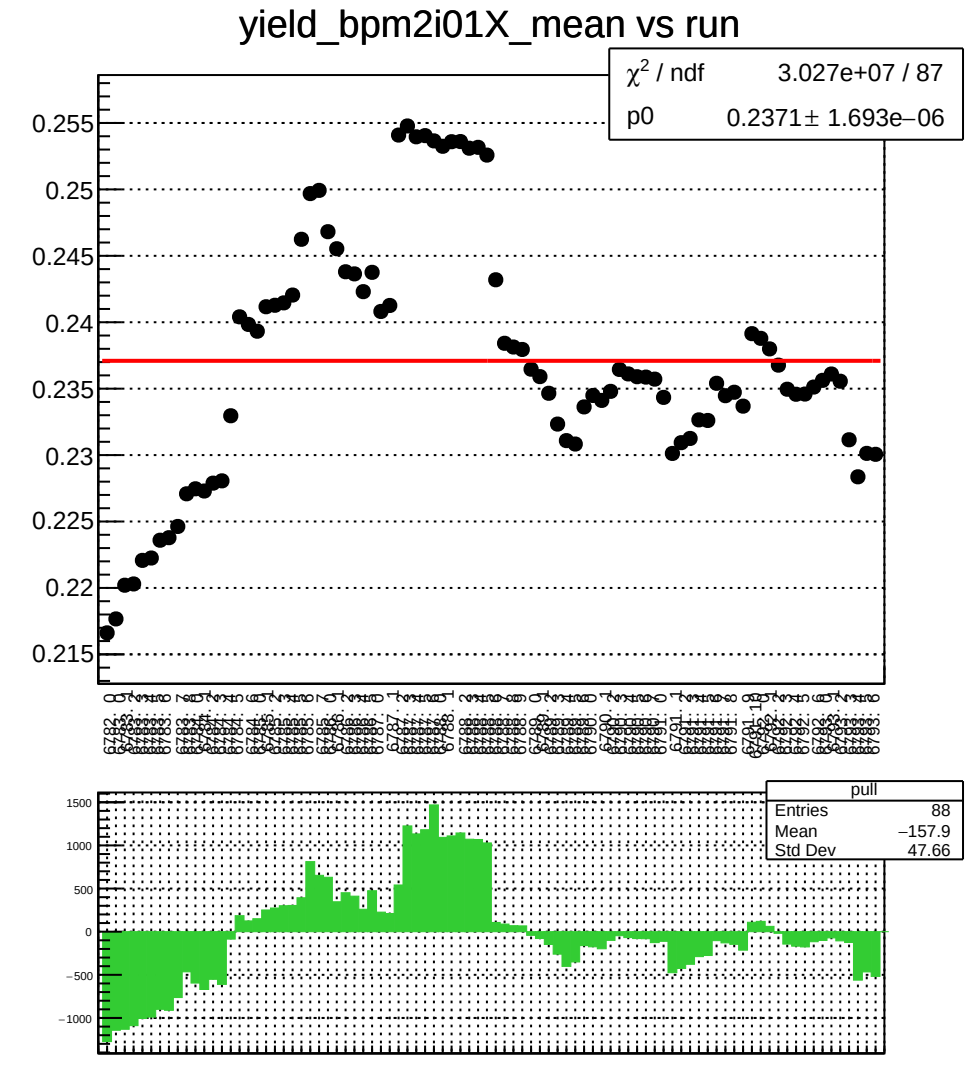

pull1D
Entries 88
Mean −0.9543
Std Dev 3.033
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

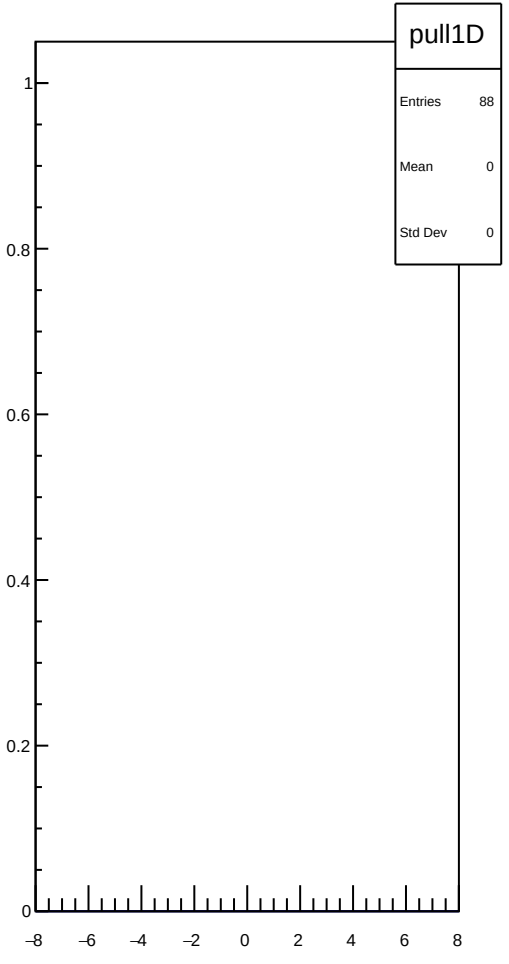

yield_bpm1i06X_rms vs run
χ² / ndf 3.045e+04 / 87
p0 0.01726 ± 1.355e–05
0.035
0.03
0.025
0.02
0.015

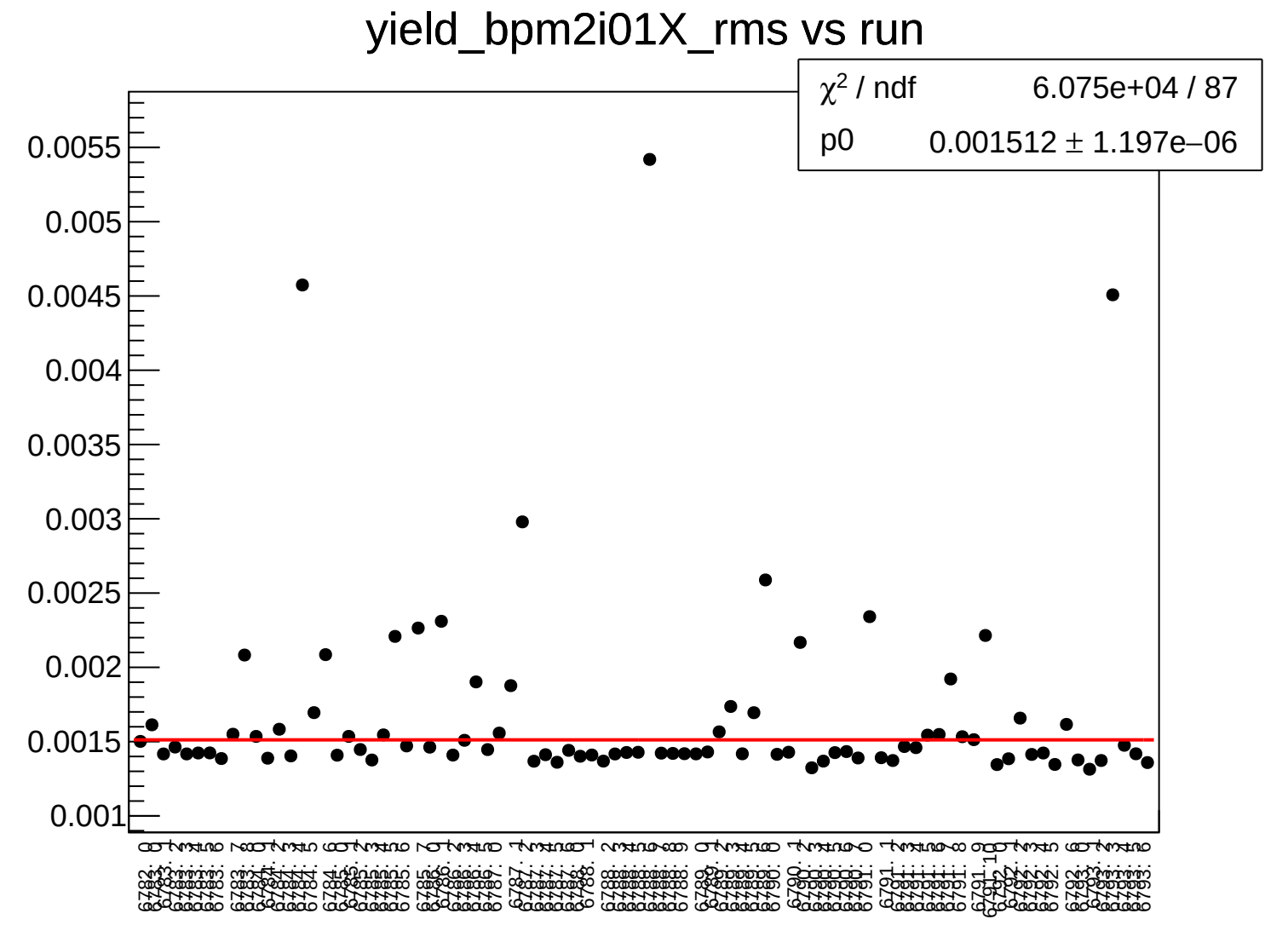

yield_bpm1i06Y_mean vs run
χ² / ndf 3.874e+07 / 87
p0 0.86 ± 4.535e−06
0.92
0.9
0.88
0.86
0.84
0.82
0.8
pull
Entries 88
Mean −303
Std Dev 0
1000
500
0
−500
−1000
−1500

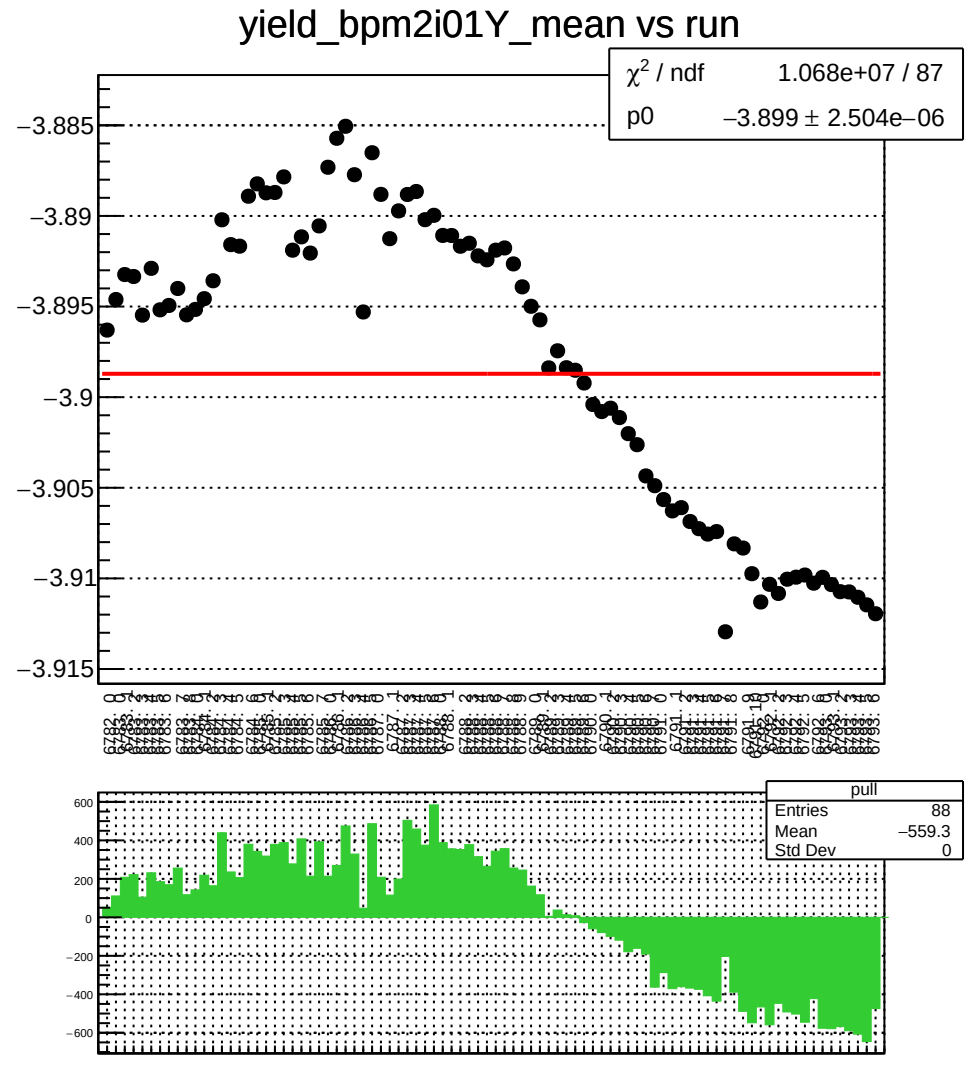

pull1D
Entries 88
Mean 0.05996
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

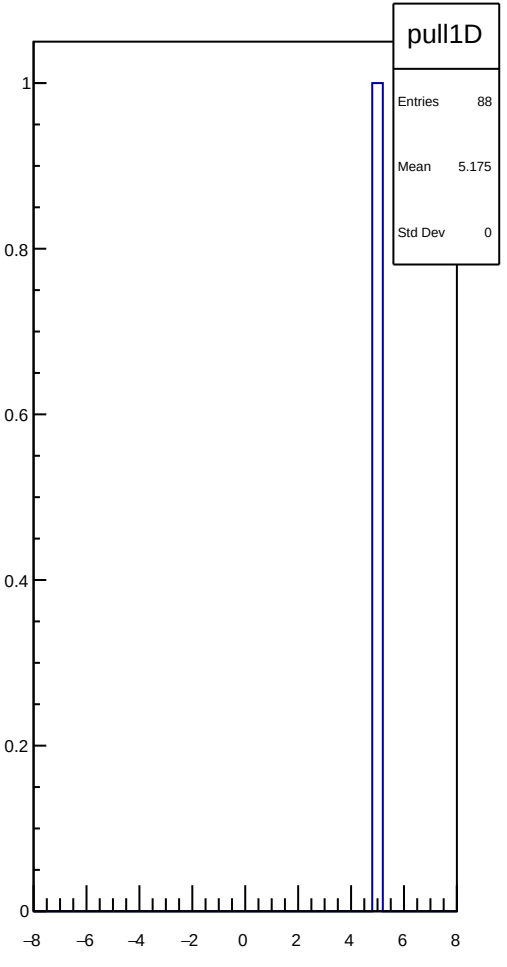

yield_bpm1i06Y_rms vs run
χ² / ndf 3.381e+05 / 87
p0 0.00368 ± 3.207e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

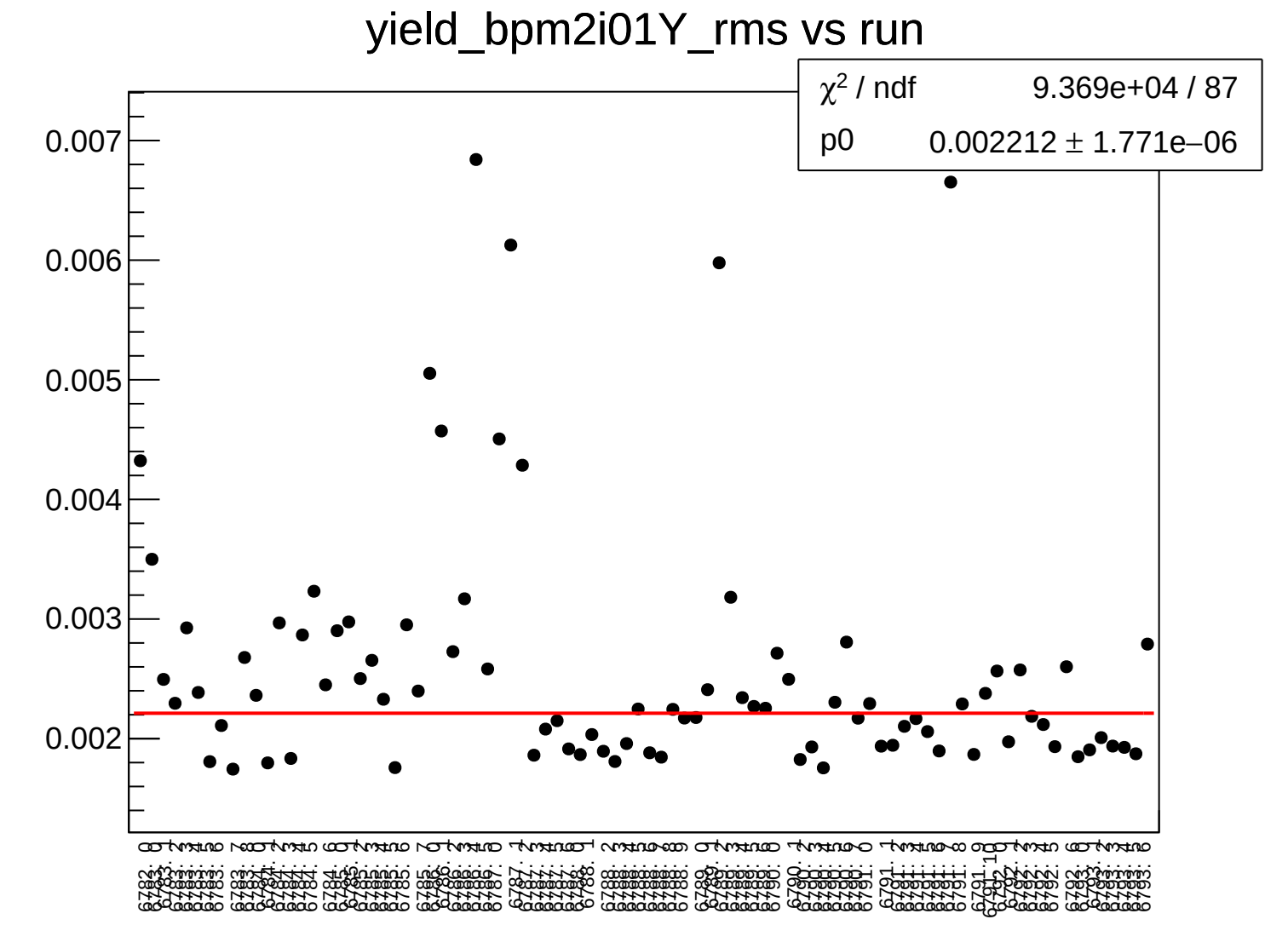

yield_bpm2i01X_mean vs run
χ² / ndf 3.027e+07 / 87
p0 0.2371 ± 1.693e−06
0.255
0.25
0.245
0.24
0.235
0.23
0.225
0.22
0.215
pull
Entries 88
Mean −157.9
Std Dev 47.66
1500
1000
500
0
−500
−1000

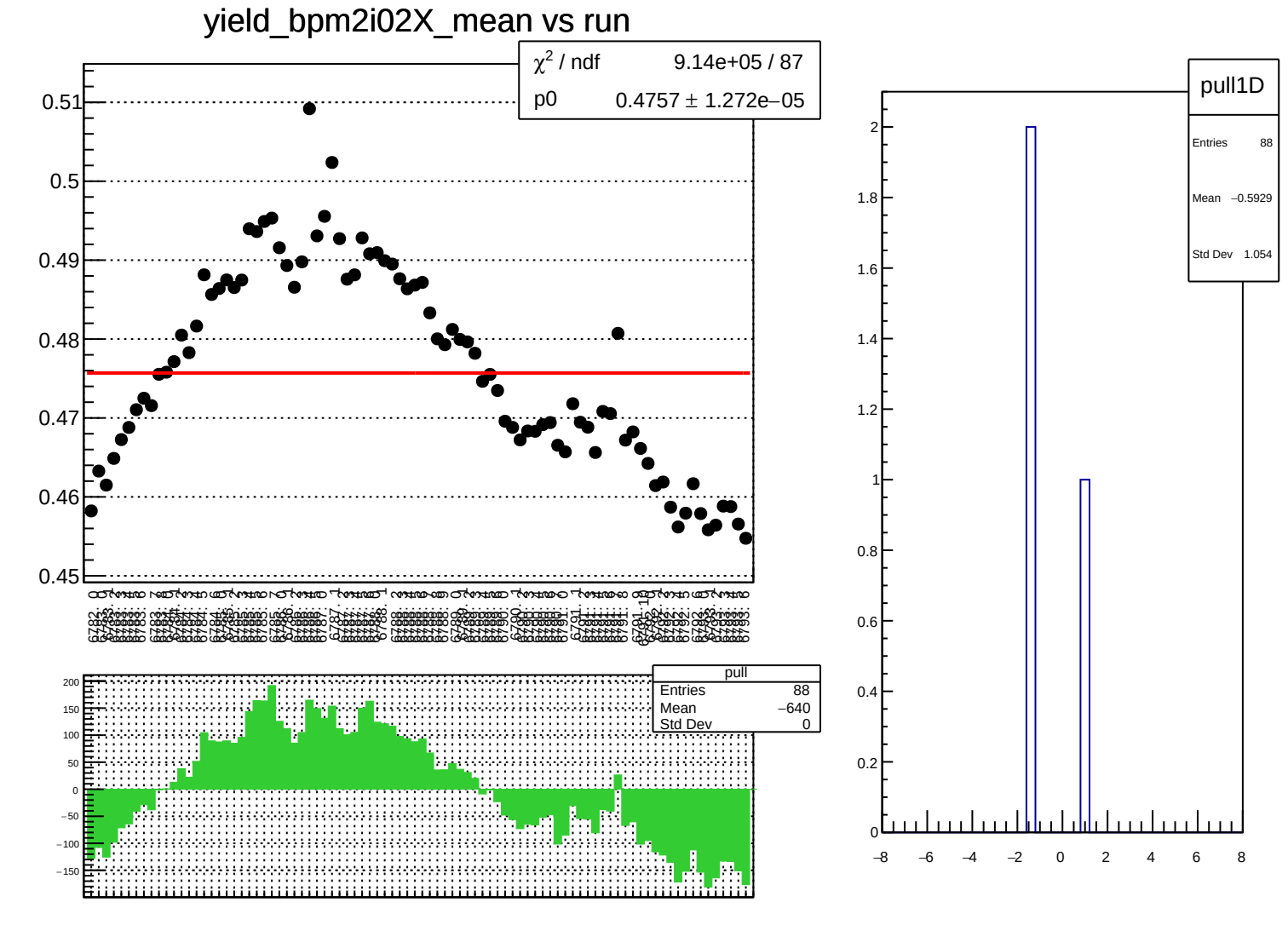

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

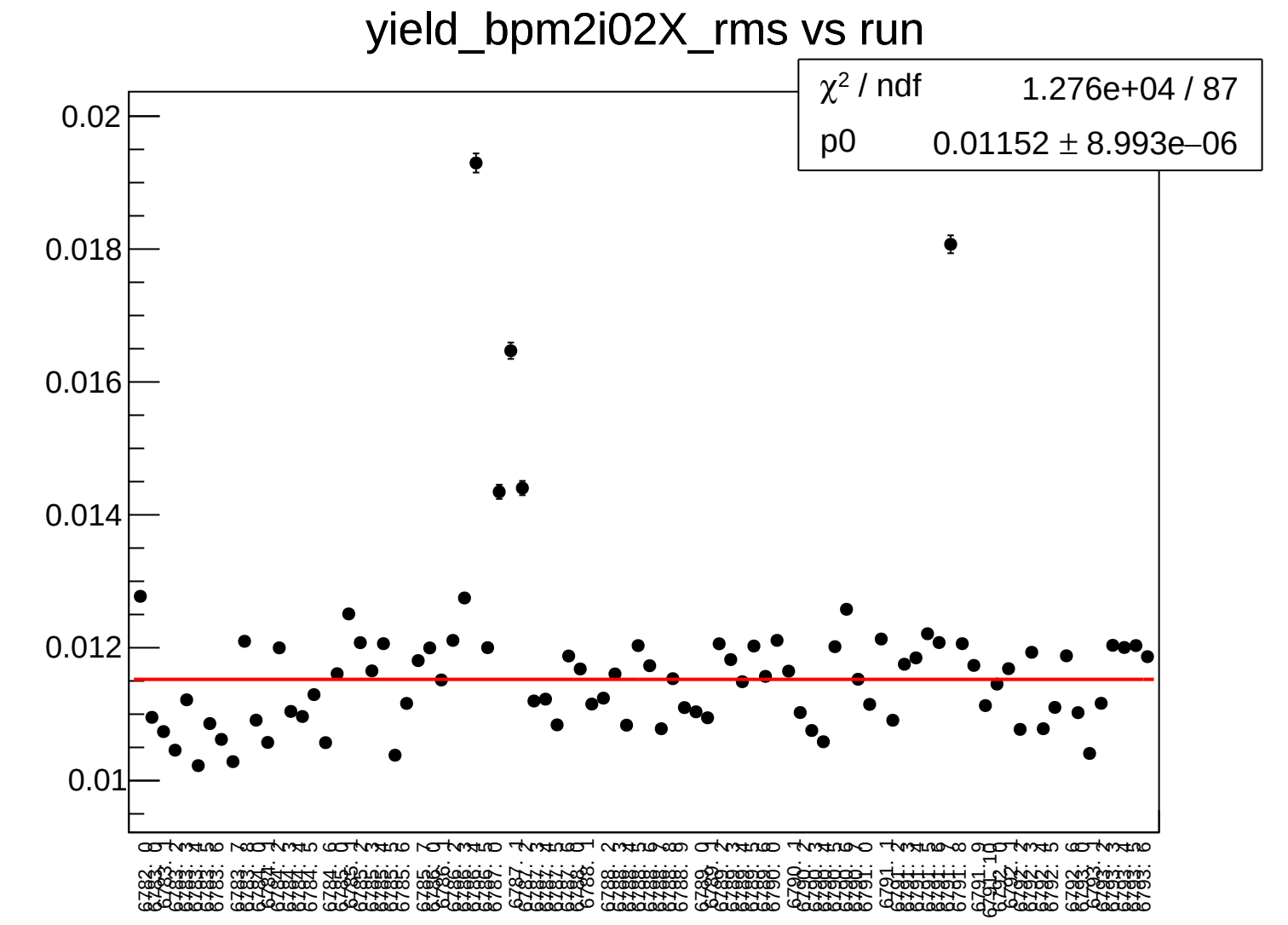

yield_bpm2i01X_rms vs run
χ² / ndf 6.075e+04 / 87
p0 0.001512 ± 1.197e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

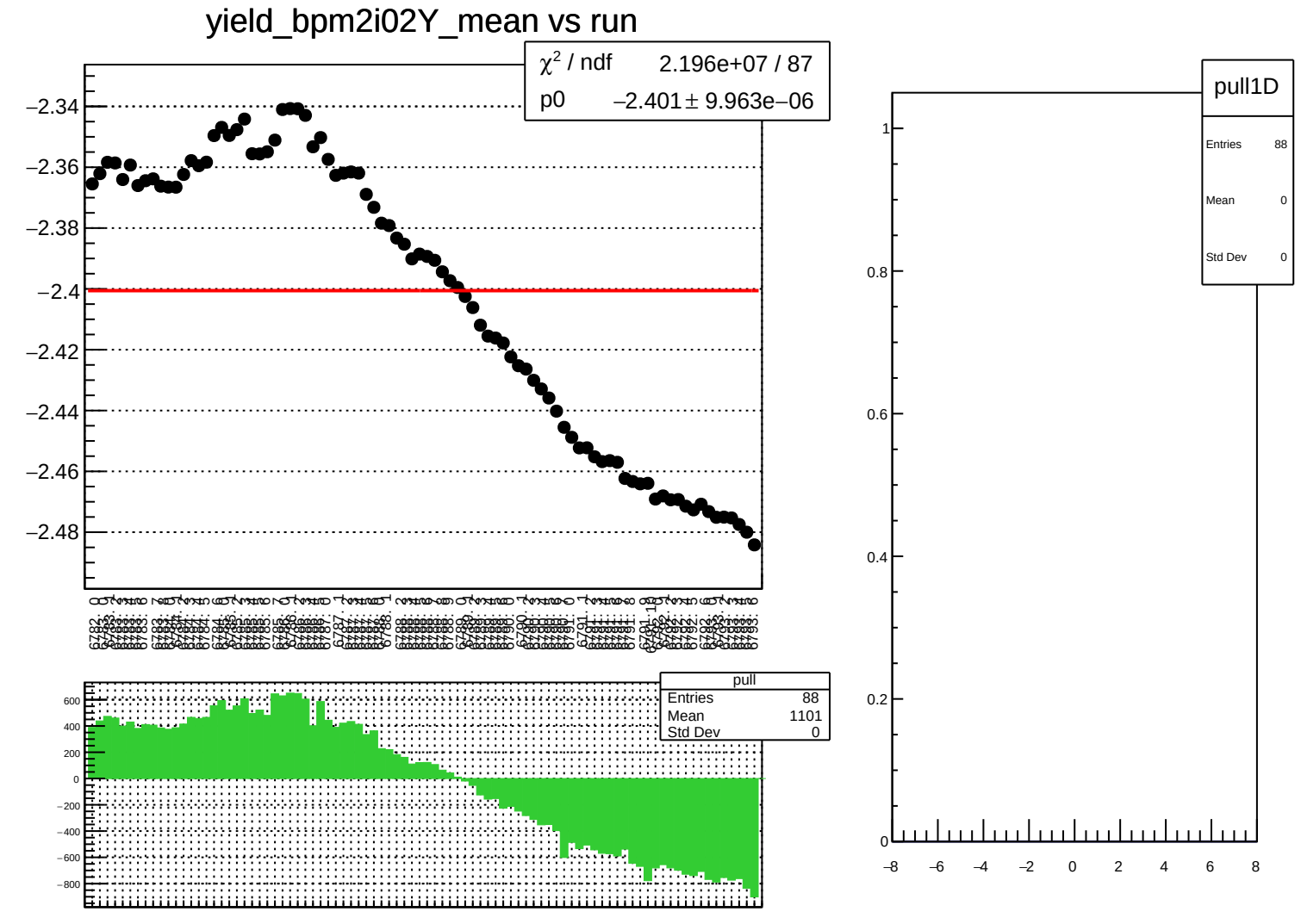

yield_bpm2i01Y_mean vs run
χ² / ndf 1.068e+07 / 87
p0 −3.899 ± 2.504e−06
−3.885
−3.89
−3.895
−3.9
−3.905
−3.91
−3.915
pull
Entries 88
Mean −559.3
Std Dev 0
600
400
200
0
−200
−400
−600

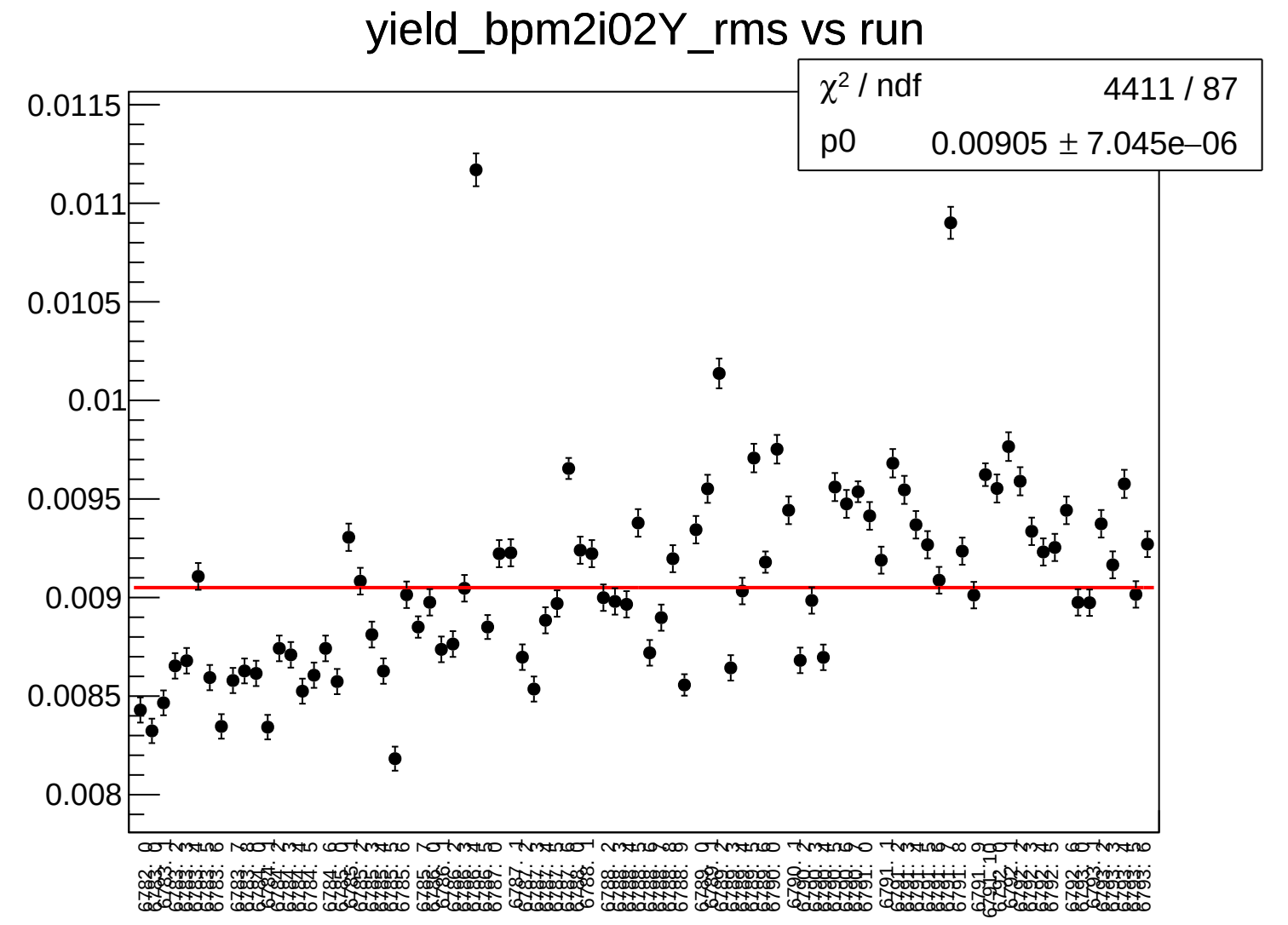

pull1D
Entries 88
Mean 5.175
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

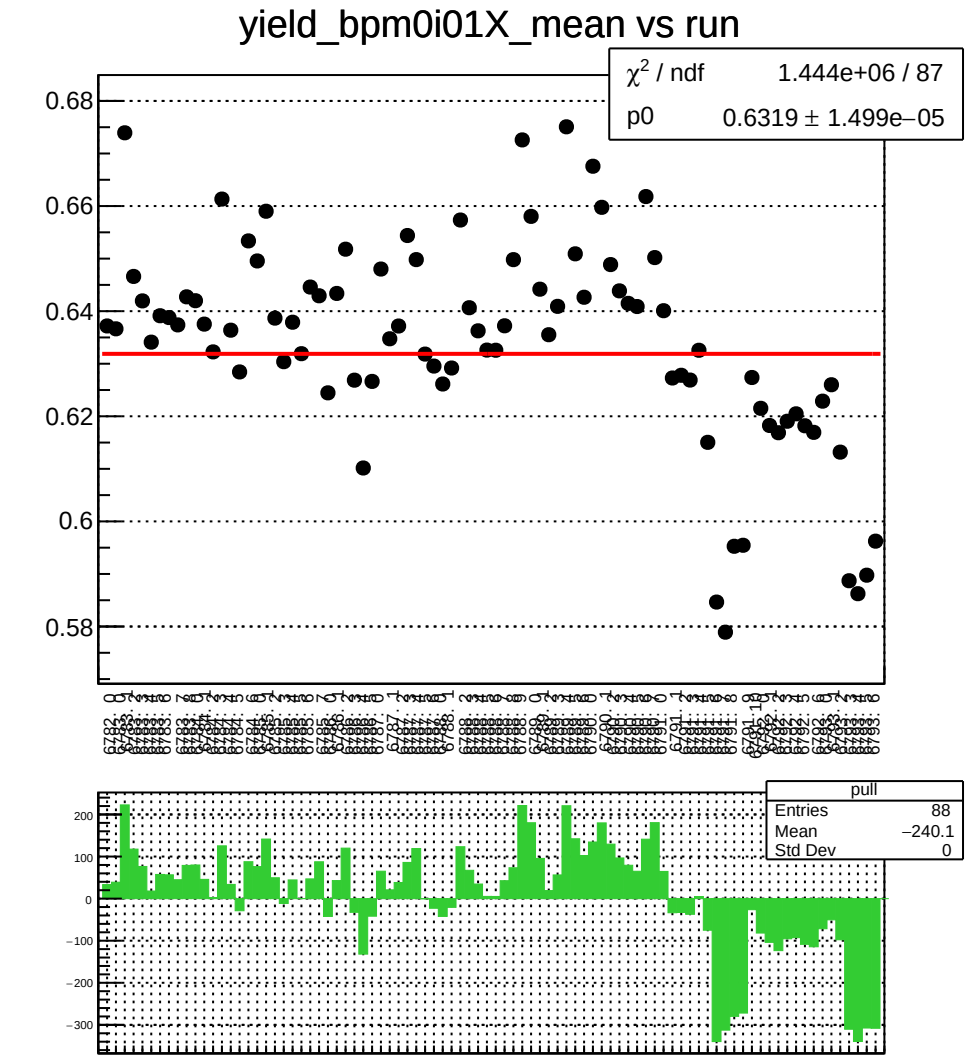

yield_bpm2i01Y_rms vs run
χ² / ndf 9.369e+04 / 87
p0 0.002212 ± 1.771e−06
0.007
0.006
0.005
0.004
0.003
0.002

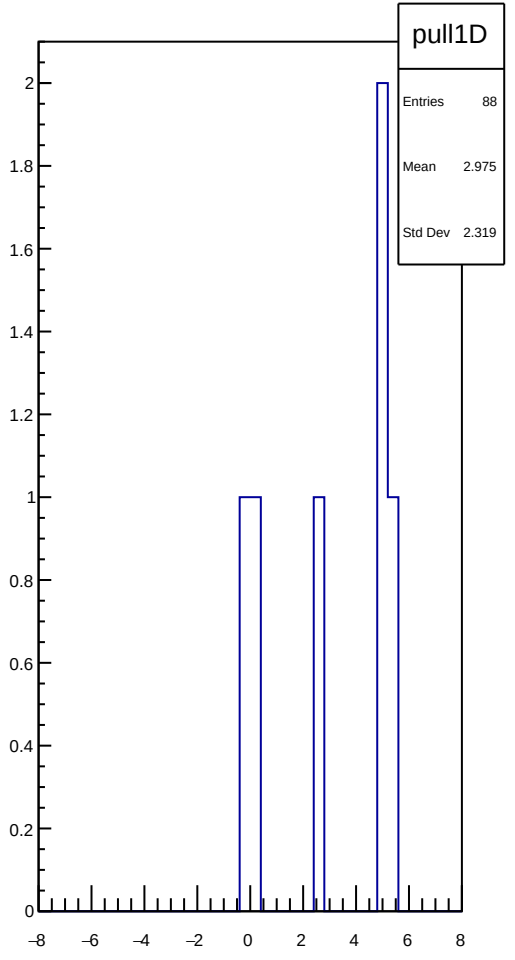

yield_bpm2i02X_mean vs run
χ² / ndf 9.14e+05 / 87
p0 0.4757 ± 1.272e−05
0.51
0.5
0.49
0.48
0.47
0.46
0.45
pull
Entries 88
Mean −640
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 88
Mean −0.5929
Std Dev 1.054
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

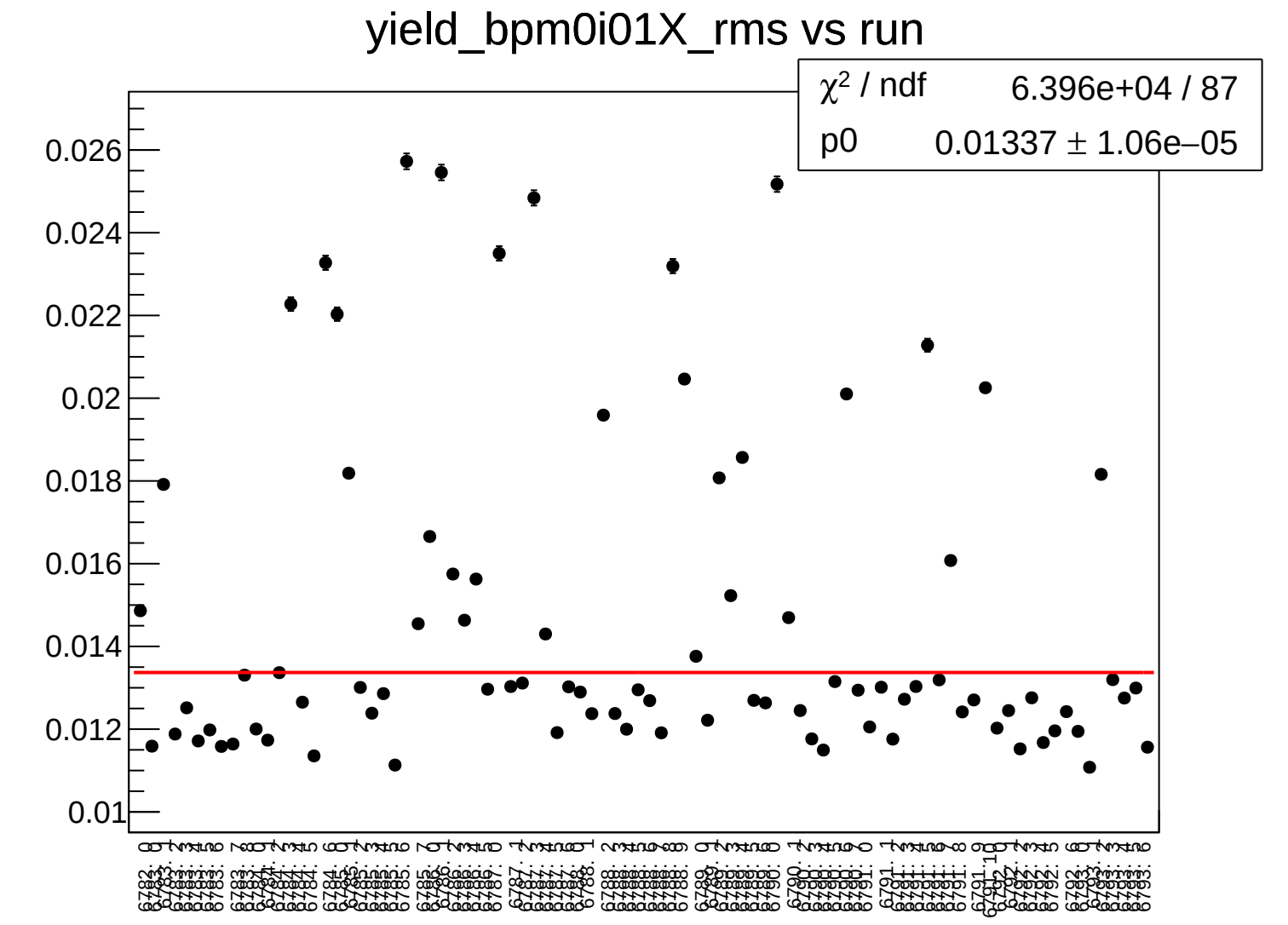

yield_bpm2i02X_rms vs run
χ² / ndf 1.276e+04 / 87
p0 0.01152 ± 8.993e–06
0.02
0.018
0.016
0.014
0.012
0.01

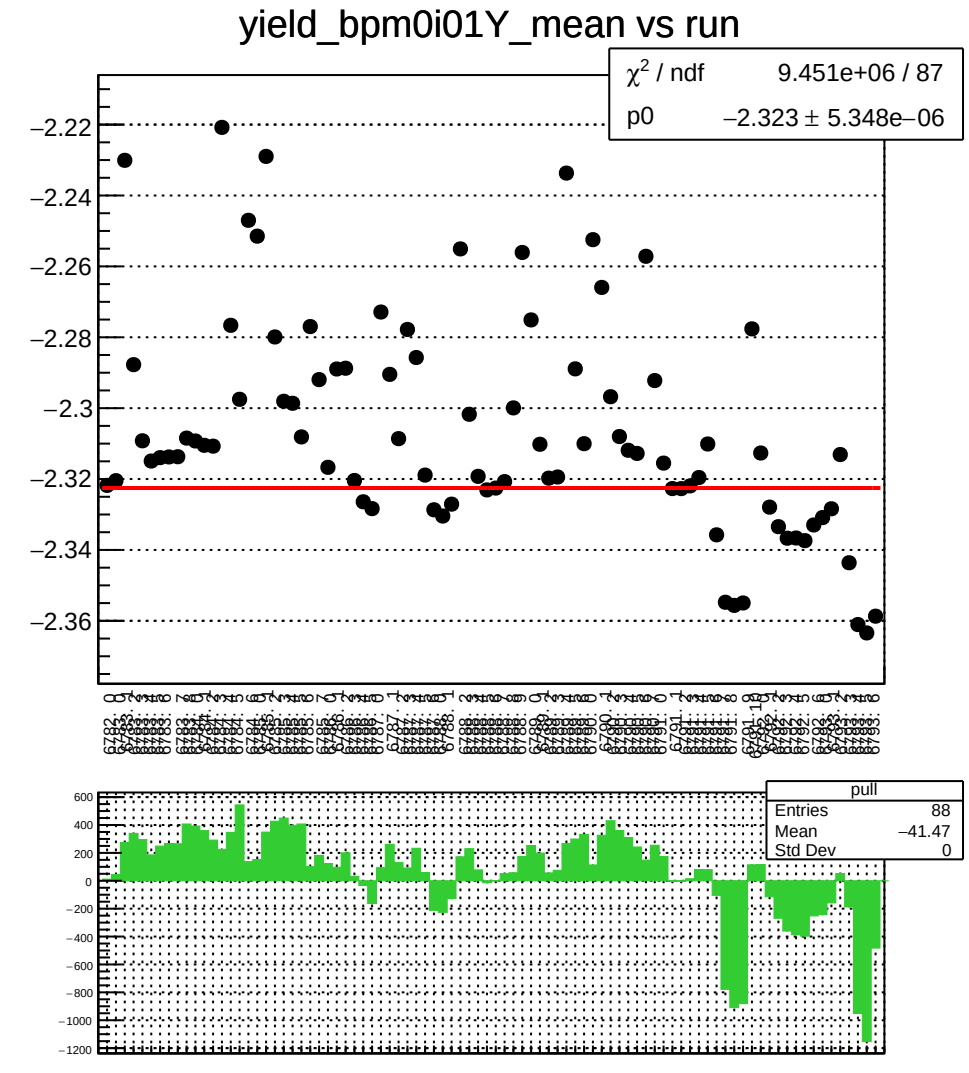

yield_bpm2i02Y_mean vs run
χ² / ndf 2.196e+07 / 87
p0 −2.401 ± 9.963e−06
−2.34
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
−2.48
pull
Entries 88
Mean 1101
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

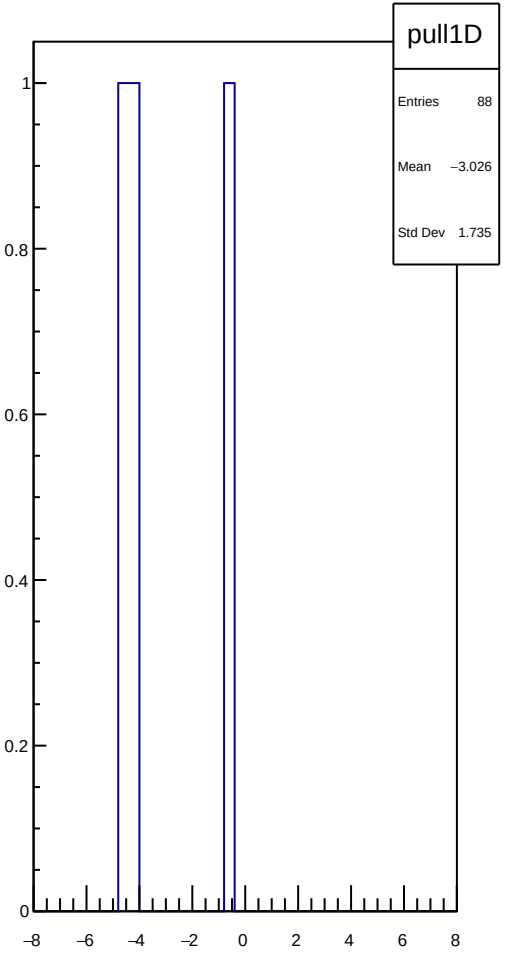

yield_bpm2i02Y_rms vs run
χ² / ndf 4411 / 87
p0 0.00905 ± 7.045e–06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

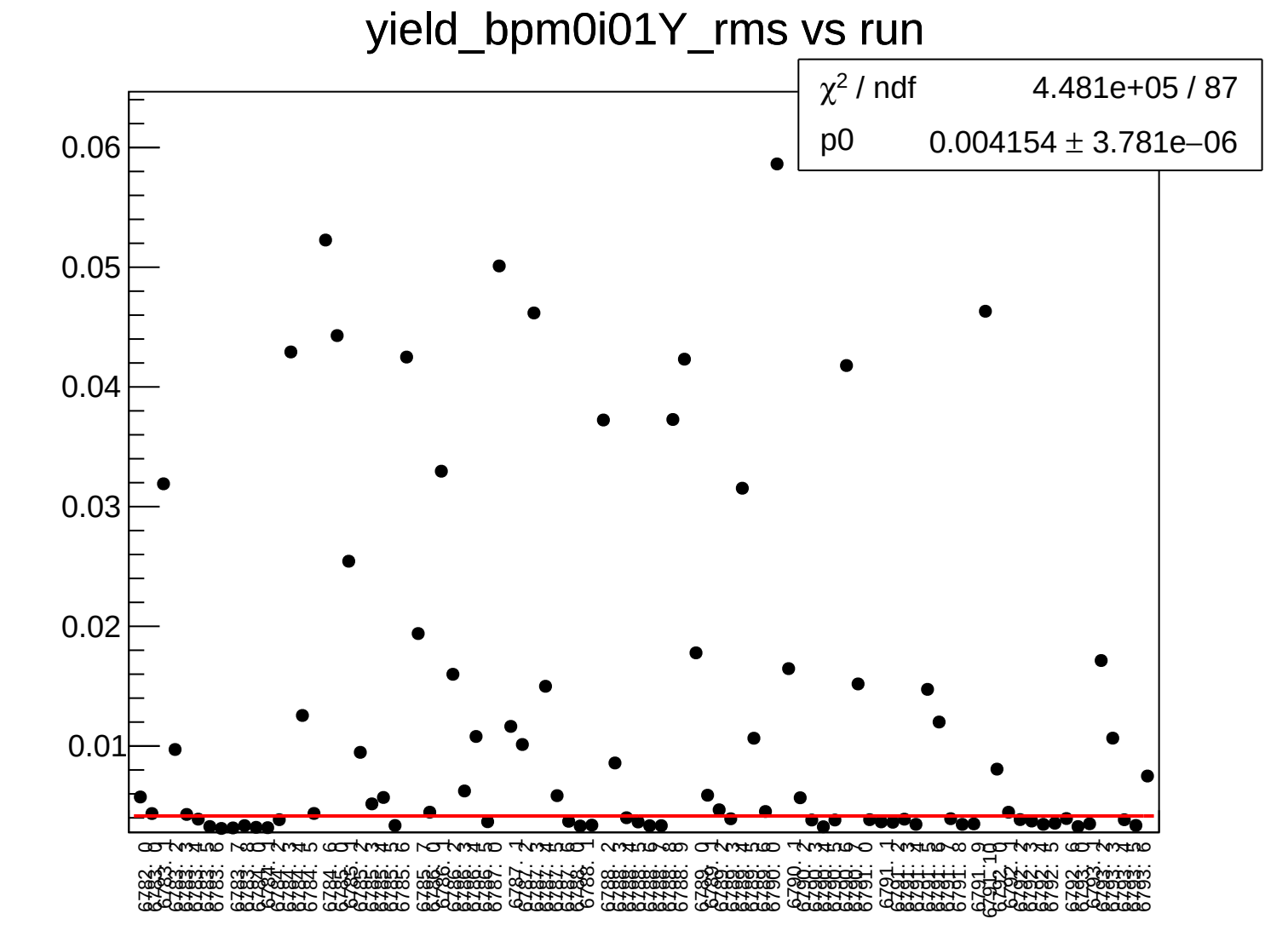

yield_bpm0i01X_mean vs run
χ² / ndf 1.444e+06 / 87
p0 0.6319 ± 1.499e−05
0.68
0.66
0.64
0.62
0.6
0.58
pull
Entries 88
Mean −240.1
Std Dev 0
200
100
0
−100
−200
−300

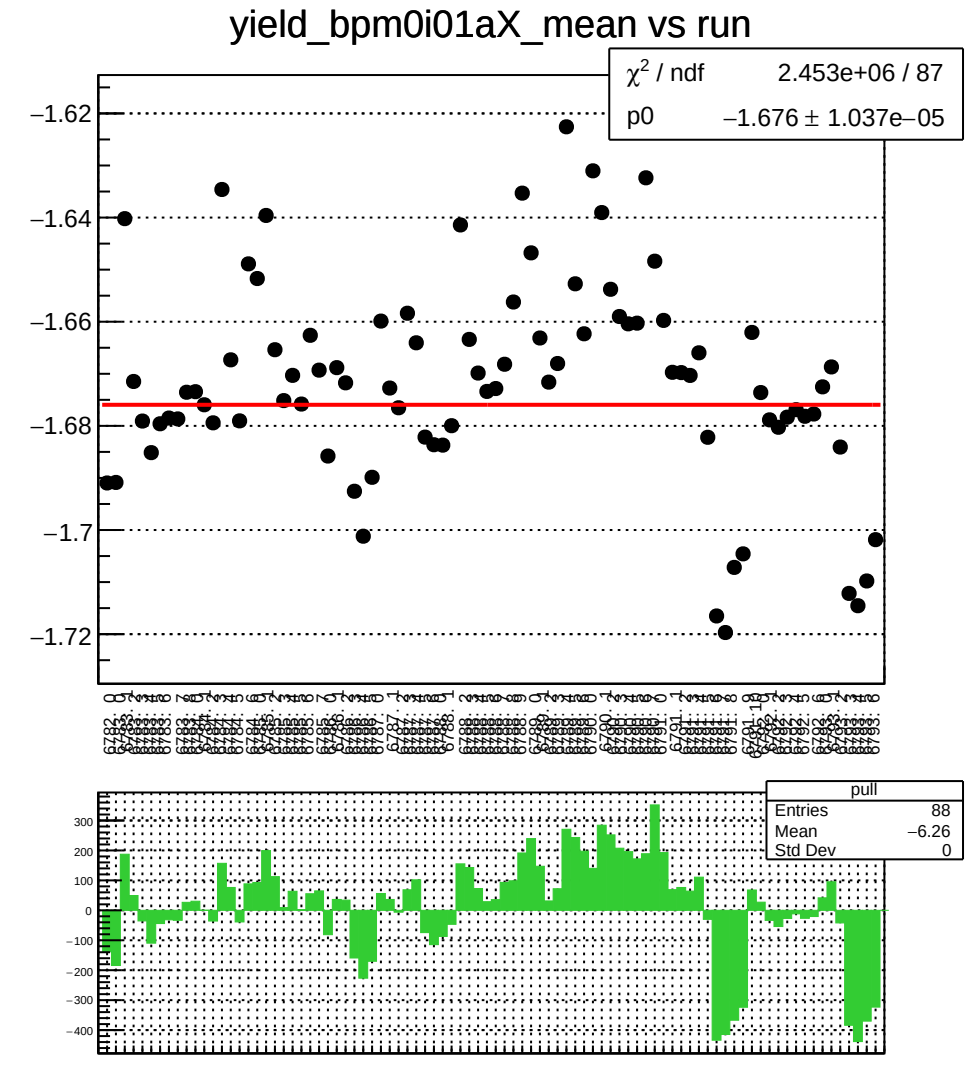

pull1D
Entries 88
Mean 2.975
Std Dev 2.319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

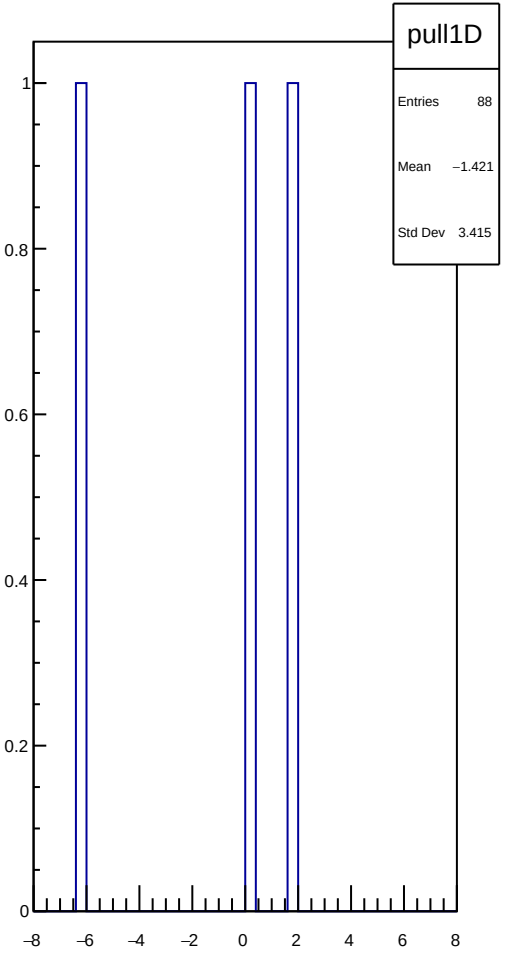

yield_bpm0i01X_rms vs run
χ² / ndf 6.396e+04 / 87
p0 0.01337 ± 1.06e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

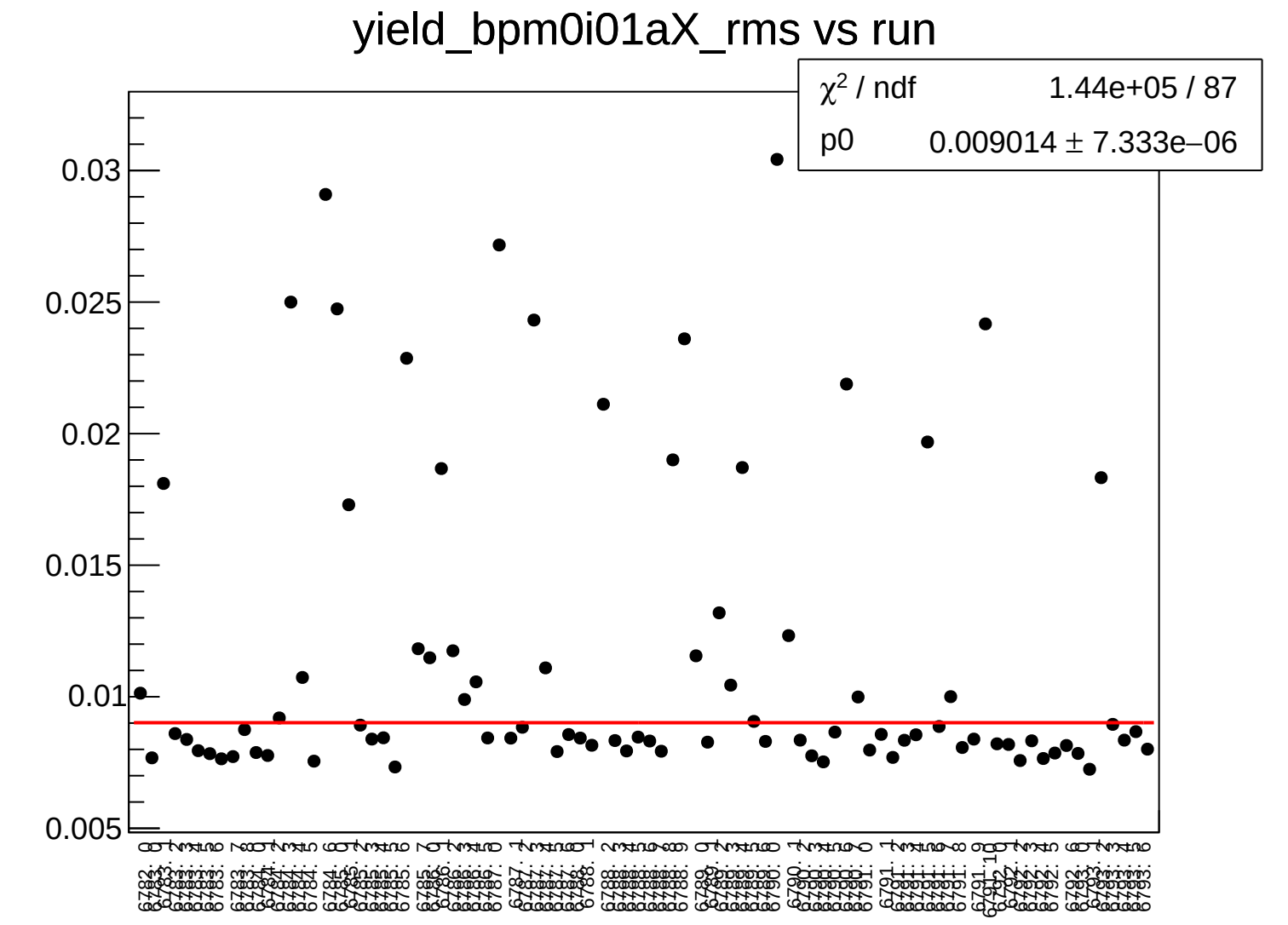

yield_bpm0i01Y_mean vs run
χ² / ndf 9.451e+06 / 87
p0 −2.323 ± 5.348e−06
−2.22
−2.24
−2.26
−2.28
−2.3
−2.32
−2.34
−2.36
pull
Entries 88
Mean −41.47
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

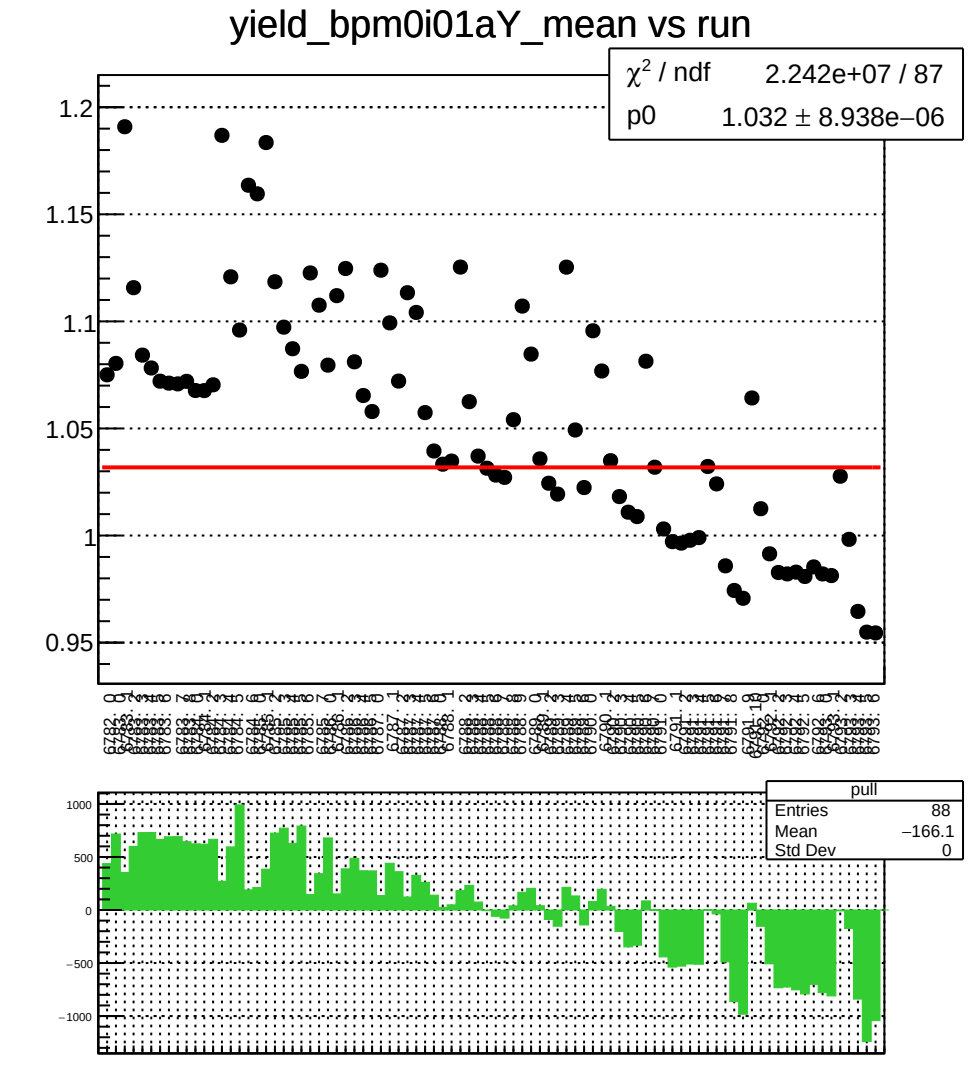

pull1D
Entries 88
Mean −3.026
Std Dev 1.735
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

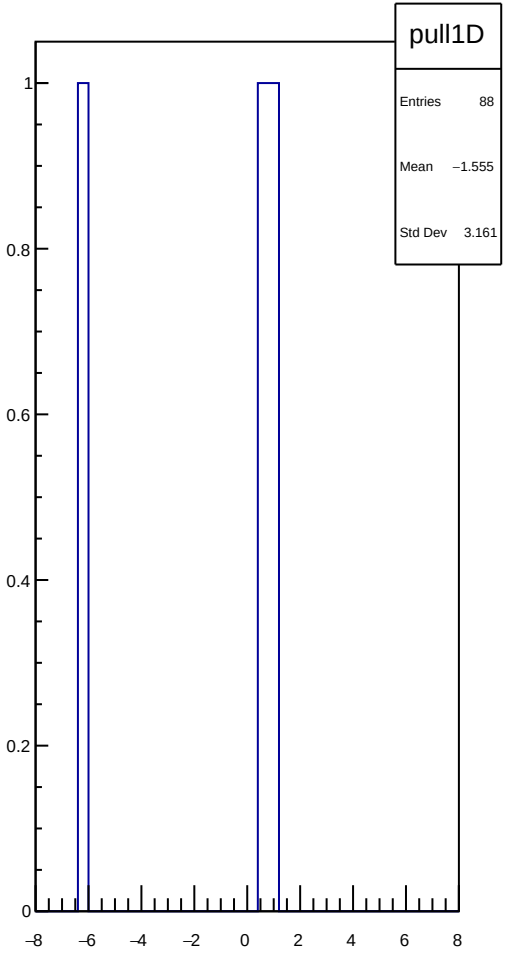

yield_bpm0i01Y_rms vs run
χ^2 / ndf 4.481e+05 / 87
p0 0.004154 ± 3.781e−06
0.06
0.05
0.04
0.03
0.02
0.01

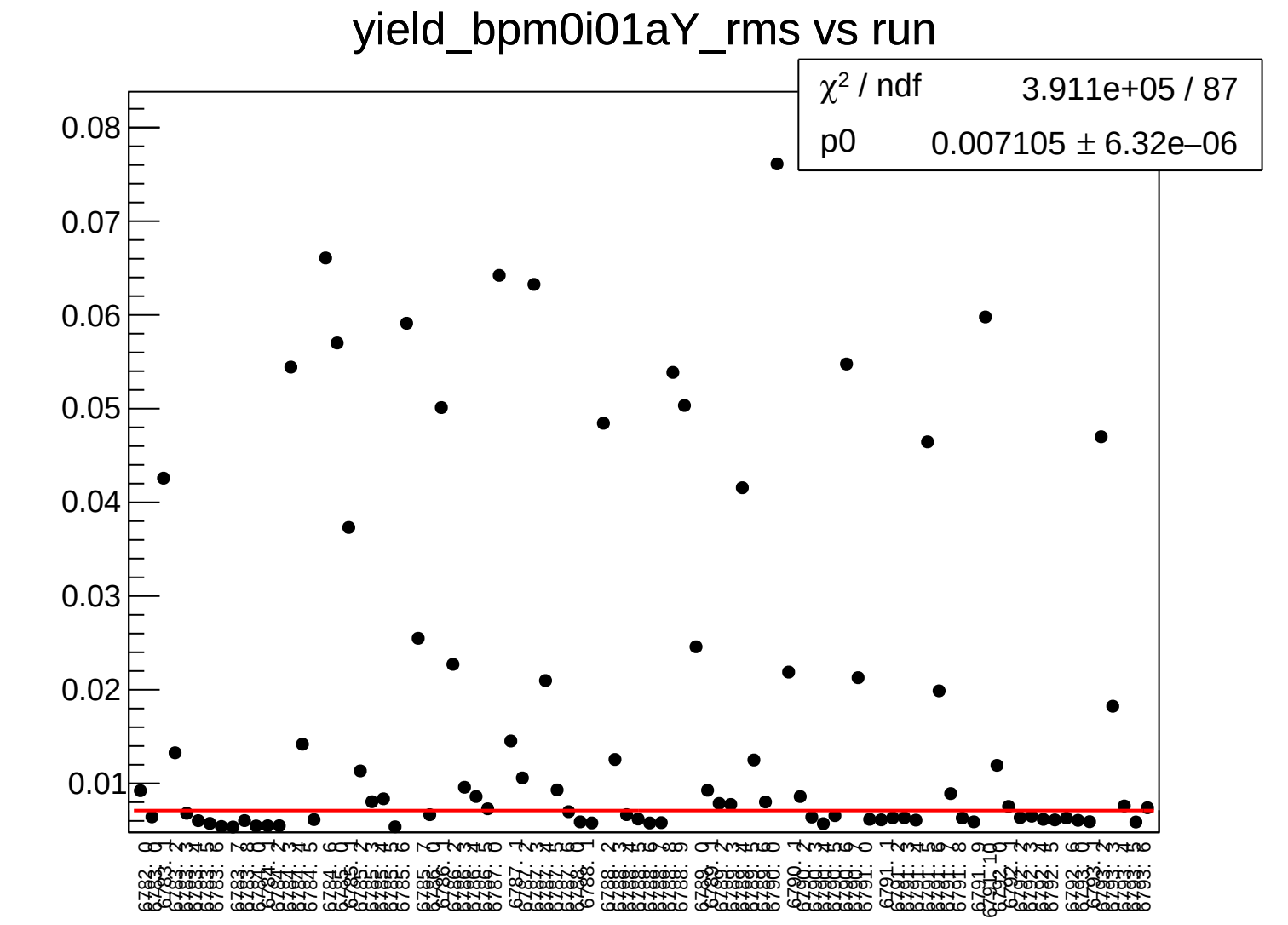

yield_bpm0i01aX_mean vs run
χ² / ndf 2.453e+06 / 87
p0 −1.676 ± 1.037e−05
−1.62
−1.64
−1.66
−1.68
−1.7
−1.72
pull
Entries 88
Mean −6.26
Std Dev 0
300
200
100
0
−100
−200
−300
−400

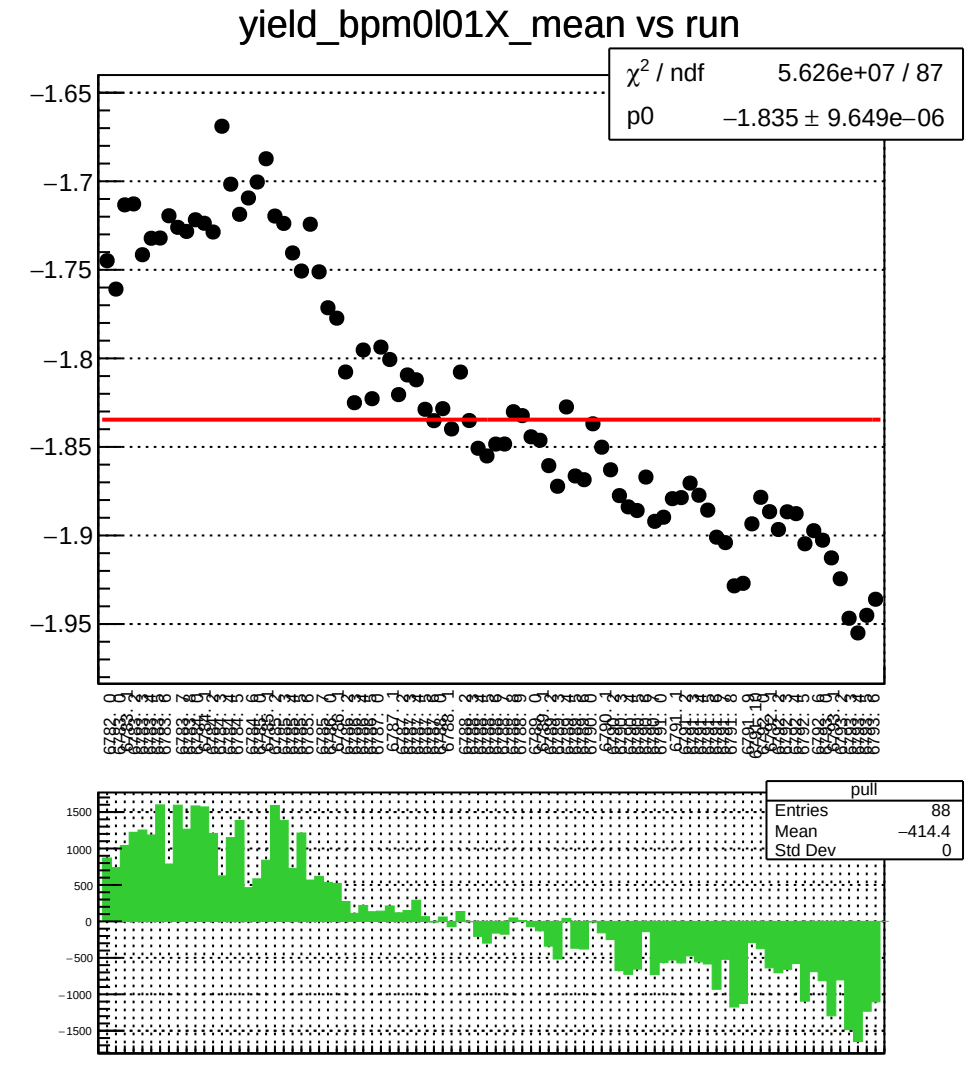

pull1D
Entries 88
Mean −1.421
Std Dev 3.415
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

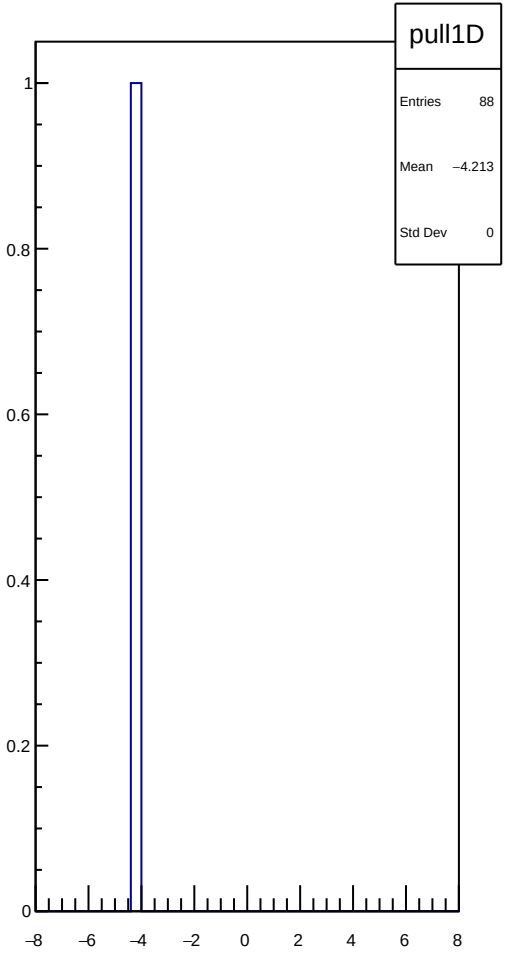

yield_bpm0i01aX_rms vs run
χ² / ndf 1.44e+05 / 87
p0 0.009014 ± 7.333e−06
0.03
0.025
0.02
0.015
0.01
0.005

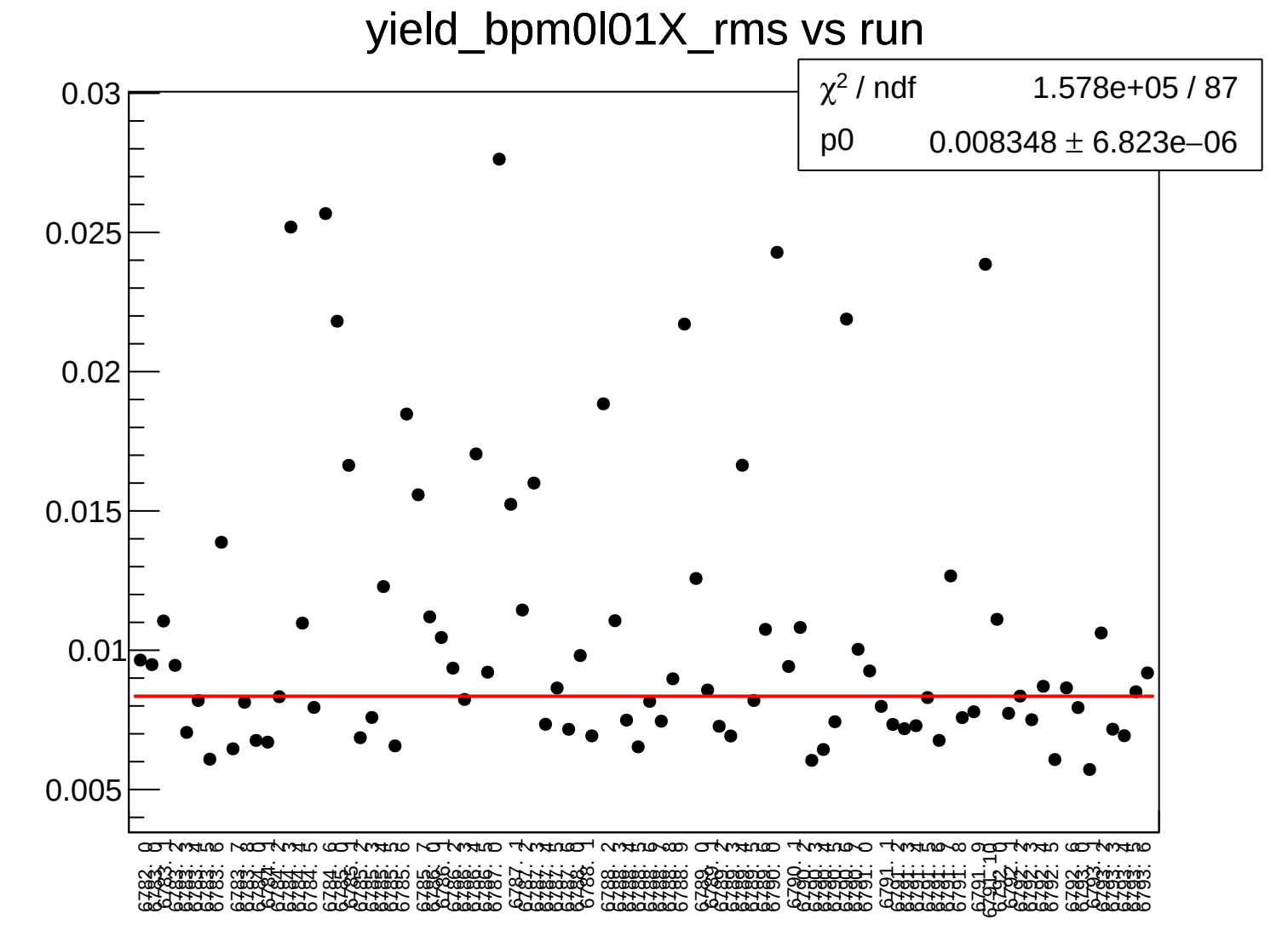

yield_bpm0i01aY_mean vs run
χ² / ndf 2.242e+07 / 87
p0 1.032 ± 8.938e−06
1.2
1.15
1.1
1.05
1
0.95
pull
Entries 88
Mean −166.1
Std Dev 0
1000
500
0
−500
−1000

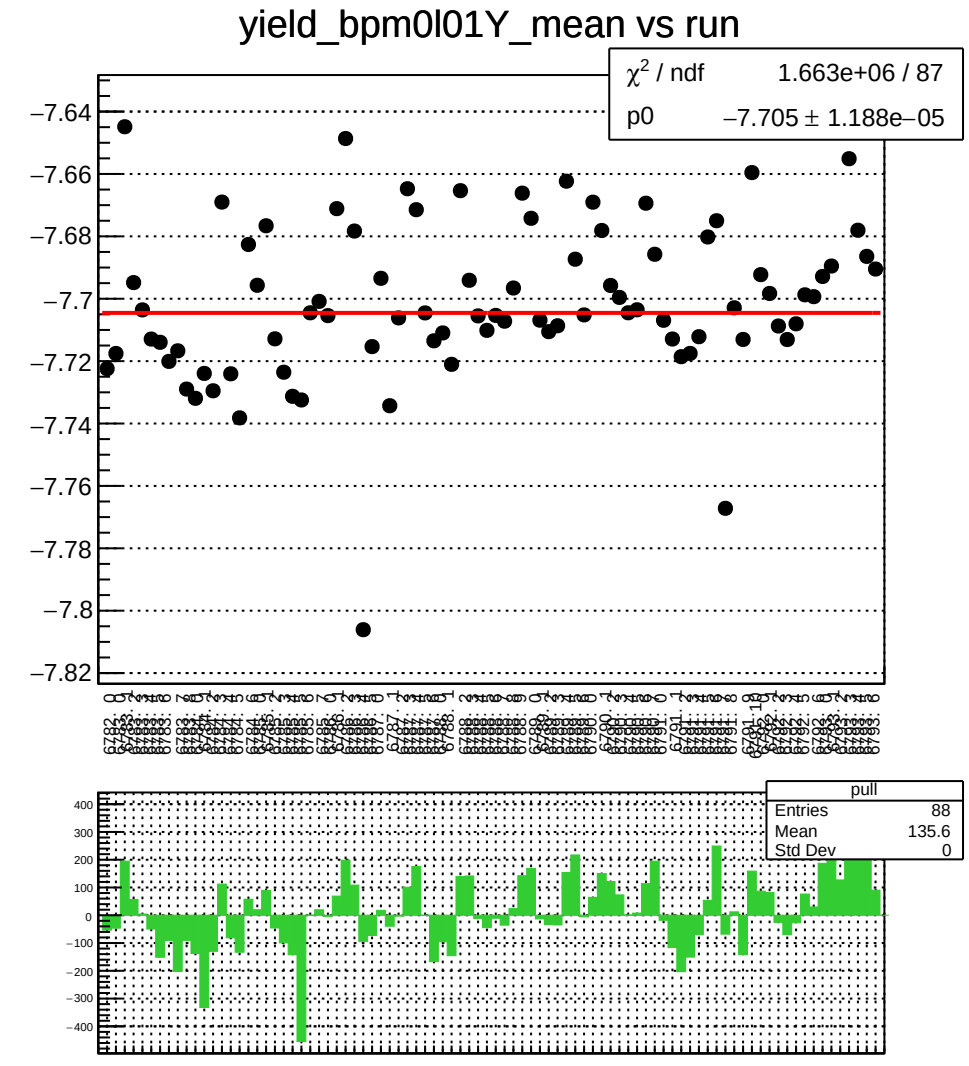

pull1D
Entries 88
Mean −1.555
Std Dev 3.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

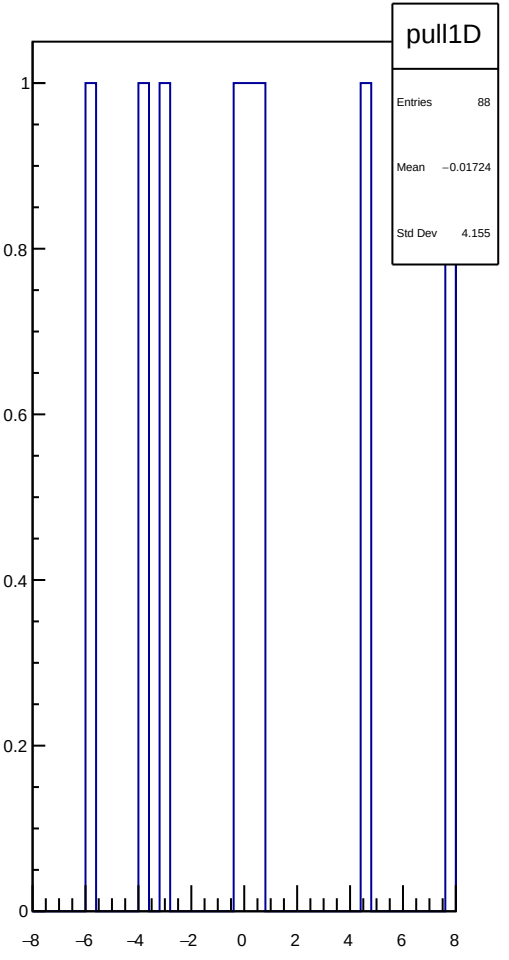

yield_bpm0i01aY_rms vs run
χ² / ndf 3.911e+05 / 87
p0 0.007105 ± 6.32e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

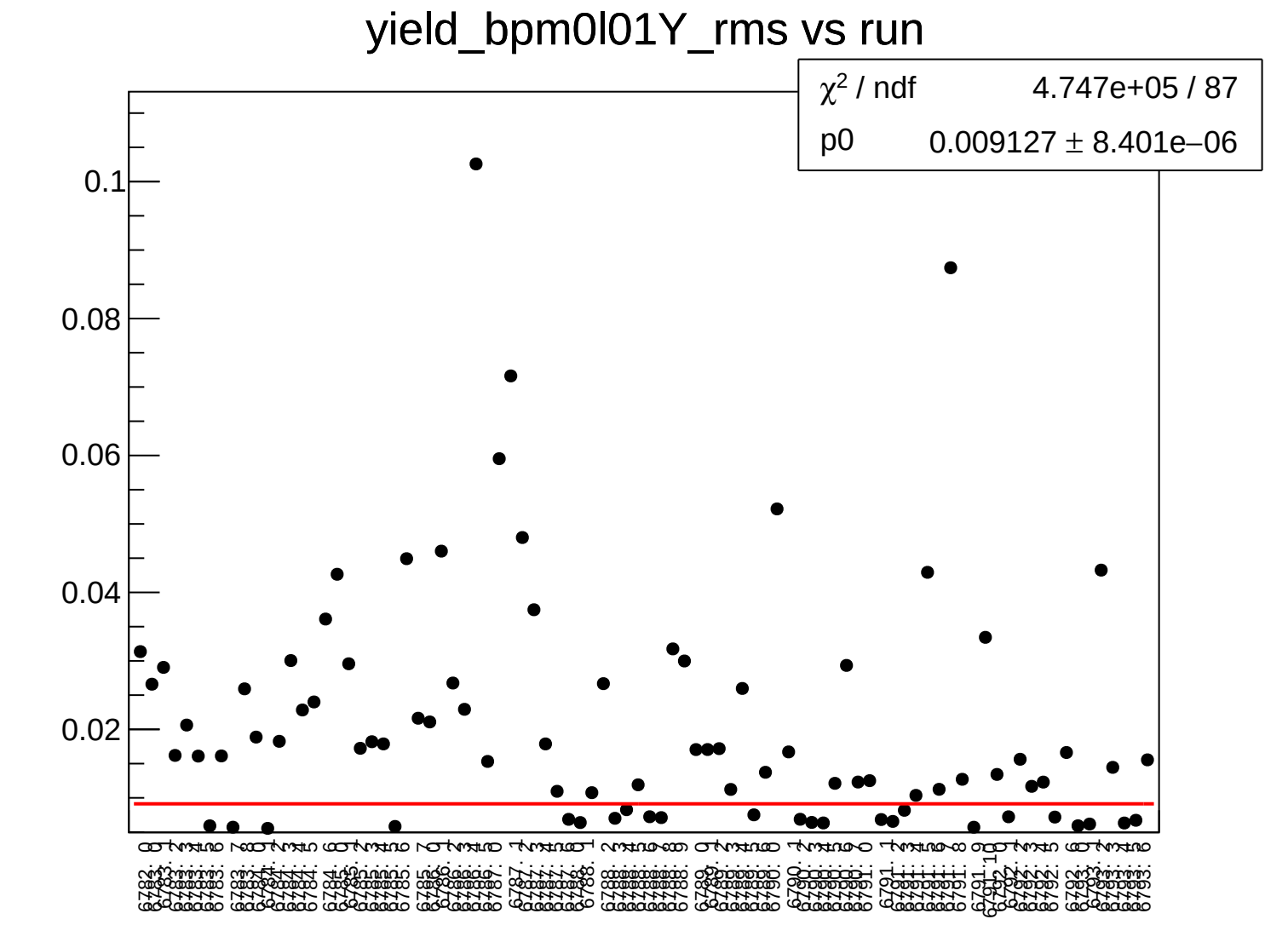

yield_bpm0l01X_mean vs run
χ² / ndf 5.626e+07 / 87
p0 −1.835 ± 9.649e−06
−1.65
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
pull
Entries 88
Mean −414.4
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

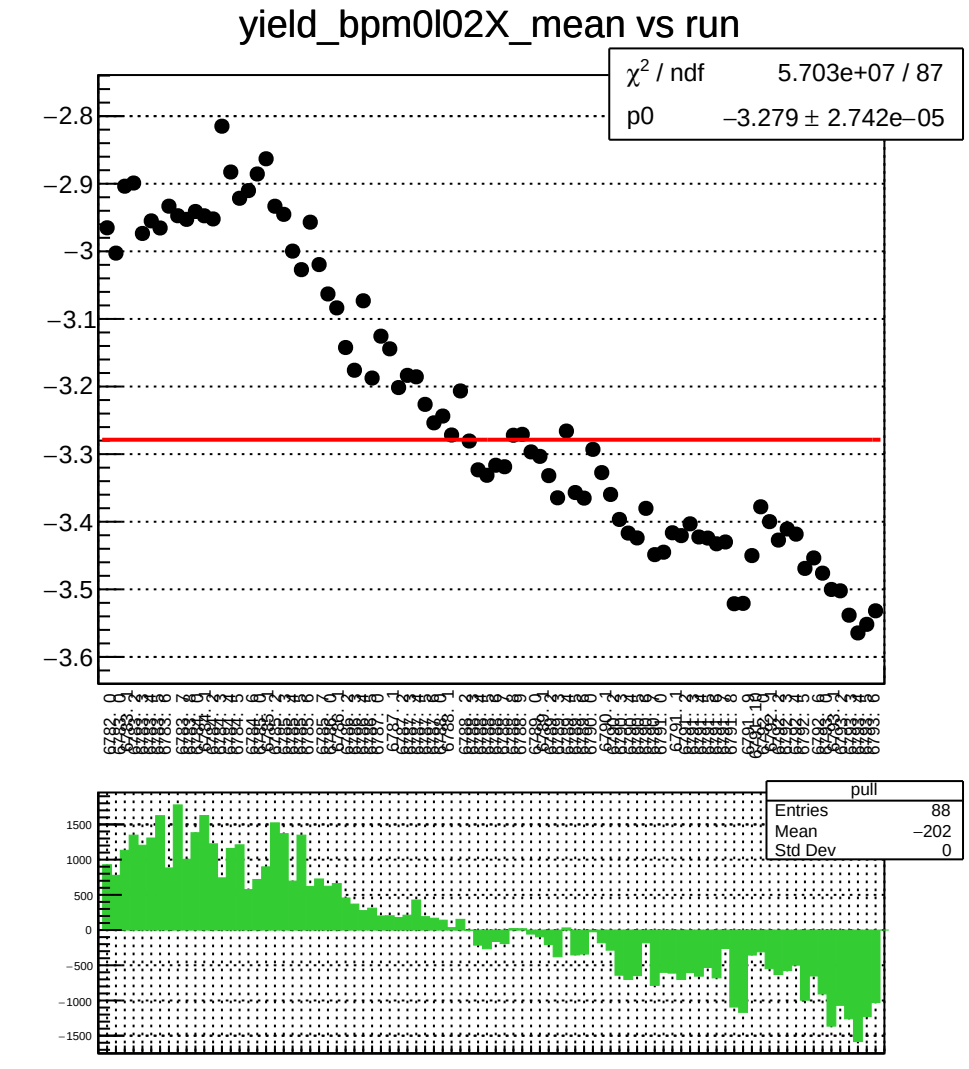

pull1D
Entries 88
Mean −4.213
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

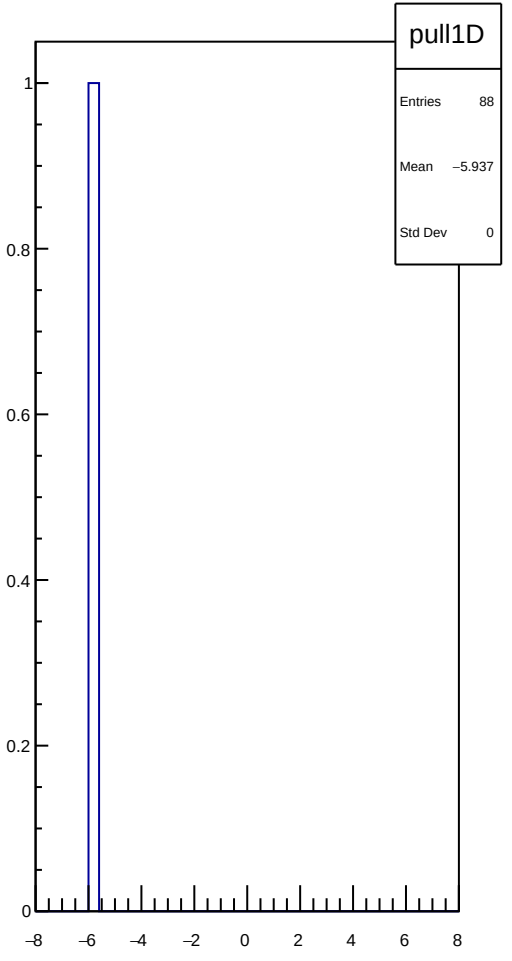

yield_bpm0l01X_rms vs run
χ² / ndf 1.578e+05 / 87
p0 0.008348 ± 6.823e−06
0.03
0.025
0.02
0.015
0.01
0.005

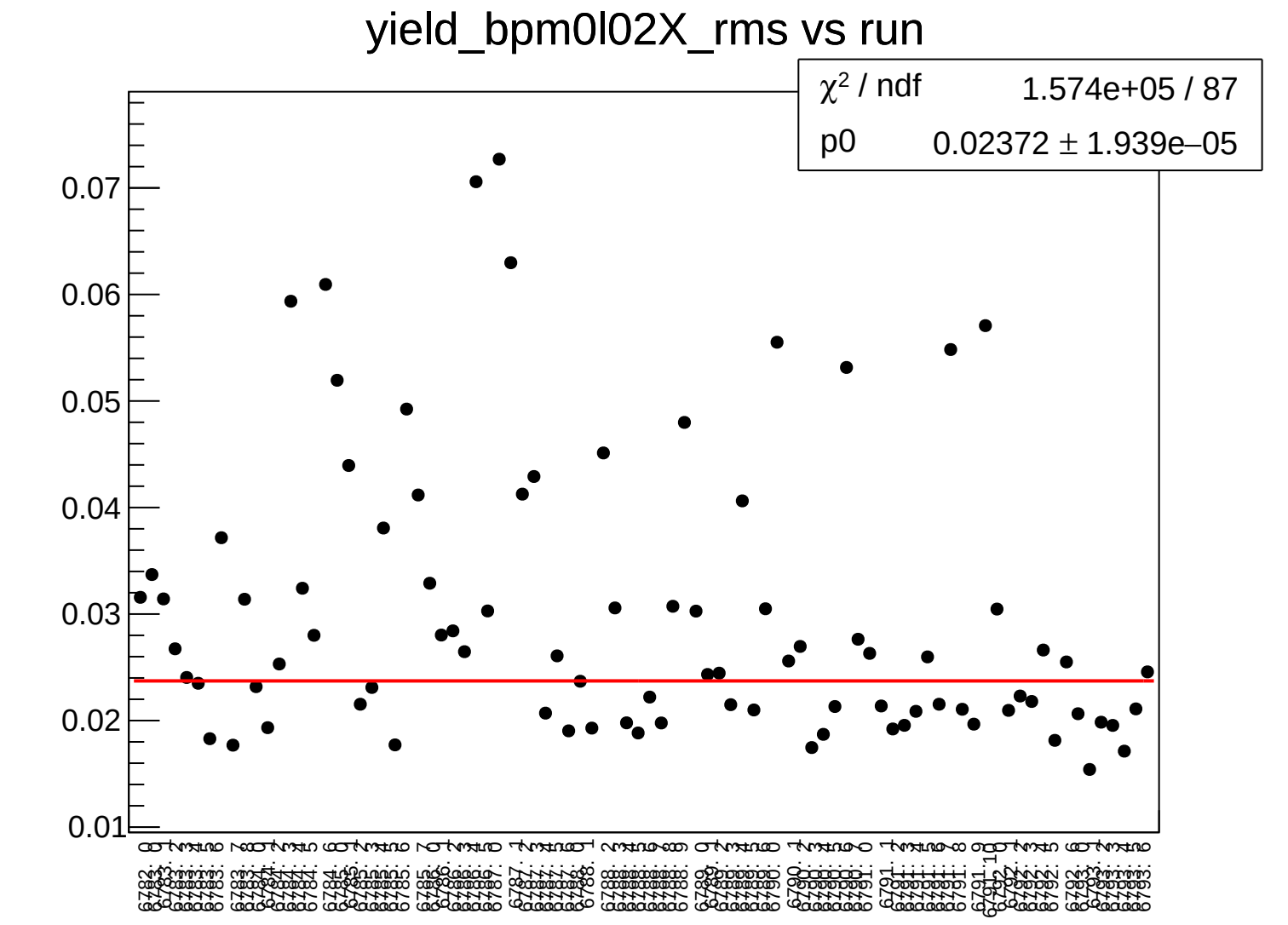

yield_bpm0l01Y_mean vs run
χ² / ndf 1.663e+06 / 87
p0 −7.705 ± 1.188e−05
−7.64
−7.66
−7.68
−7.7
−7.72
−7.74
−7.76
−7.78
−7.8
−7.82
pull
Entries 88
Mean 135.6
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

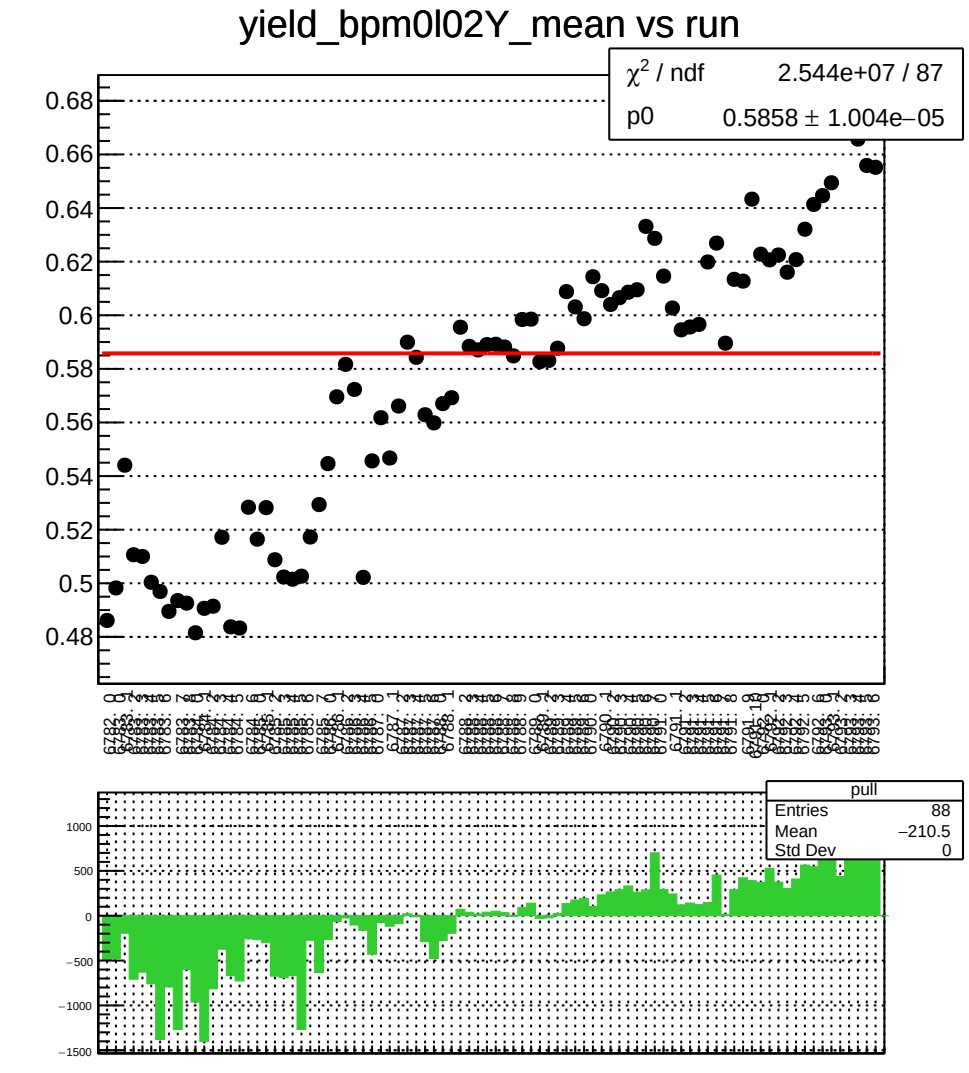

pull1D
Entries 88
Mean −0.01724
Std Dev 4.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

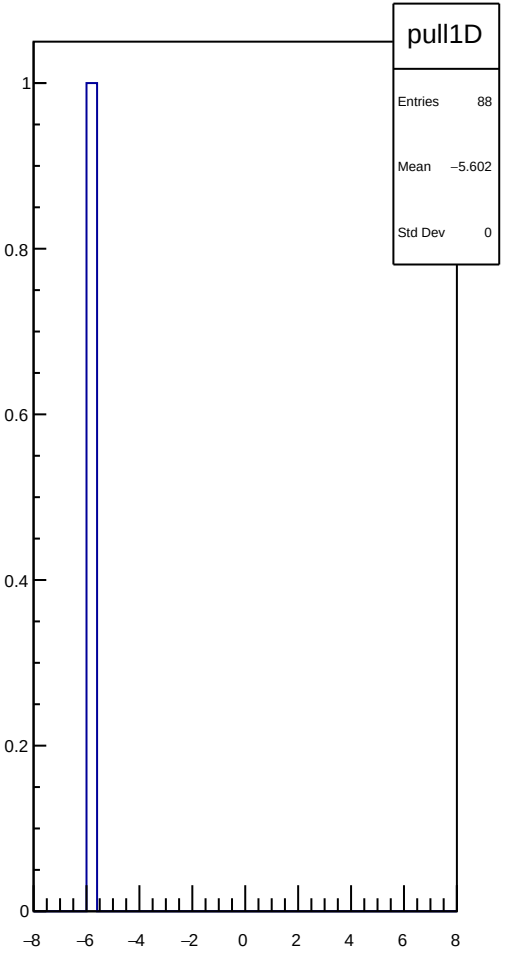

yield_bpm0l01Y_rms vs run
χ² / ndf 4.747e+05 / 87
p0 0.009127 ± 8.401e−06
0.1
0.08
0.06
0.04
0.02

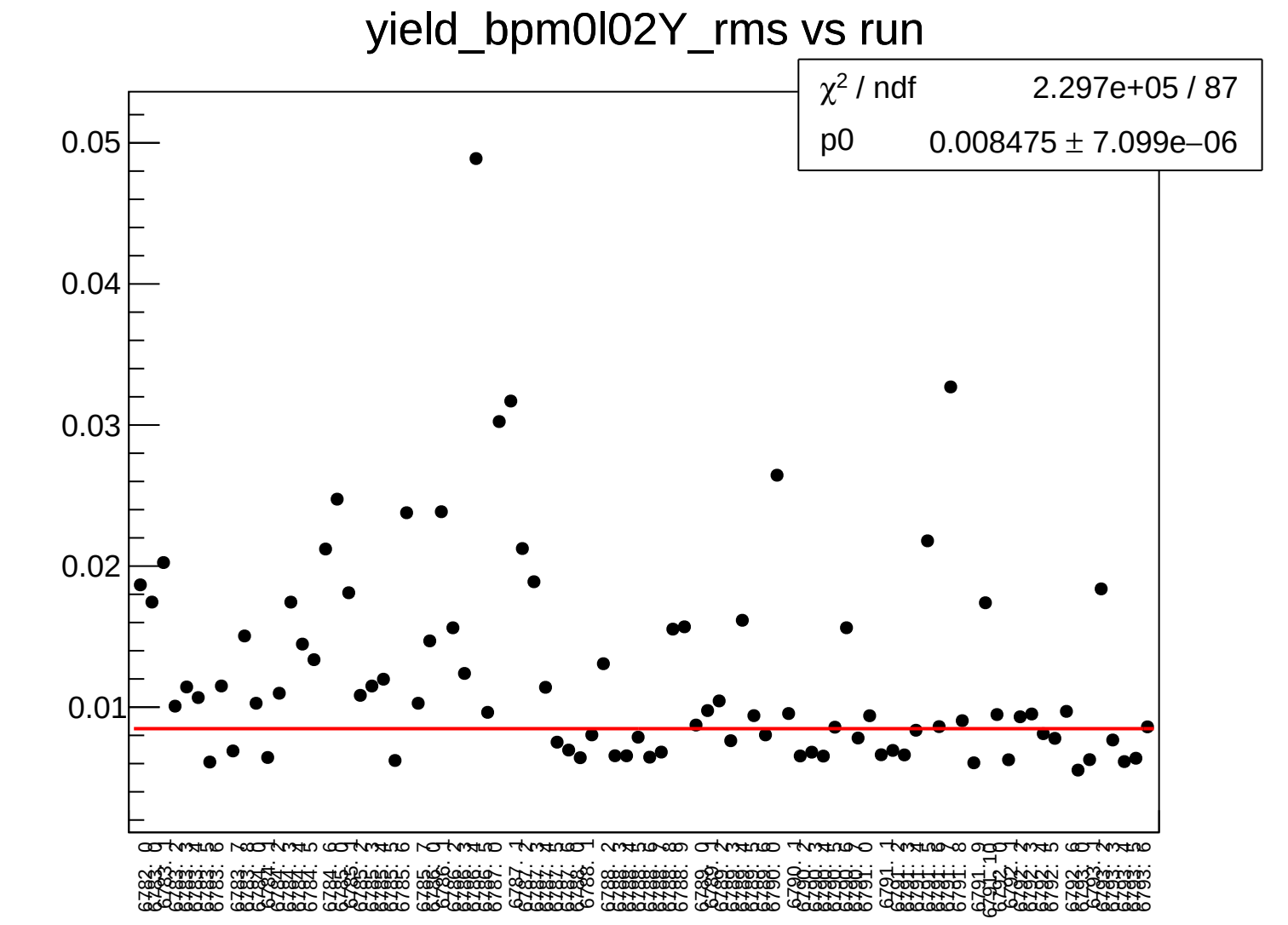

yield_bpm0l02X_mean vs run
χ² / ndf 5.703e+07 / 87
p0 −3.279 ± 2.742e−05
−2.8
−2.9
−3
−3.1
−3.2
−3.3
−3.4
−3.5
−3.6
pull
Entries 88
Mean −202
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

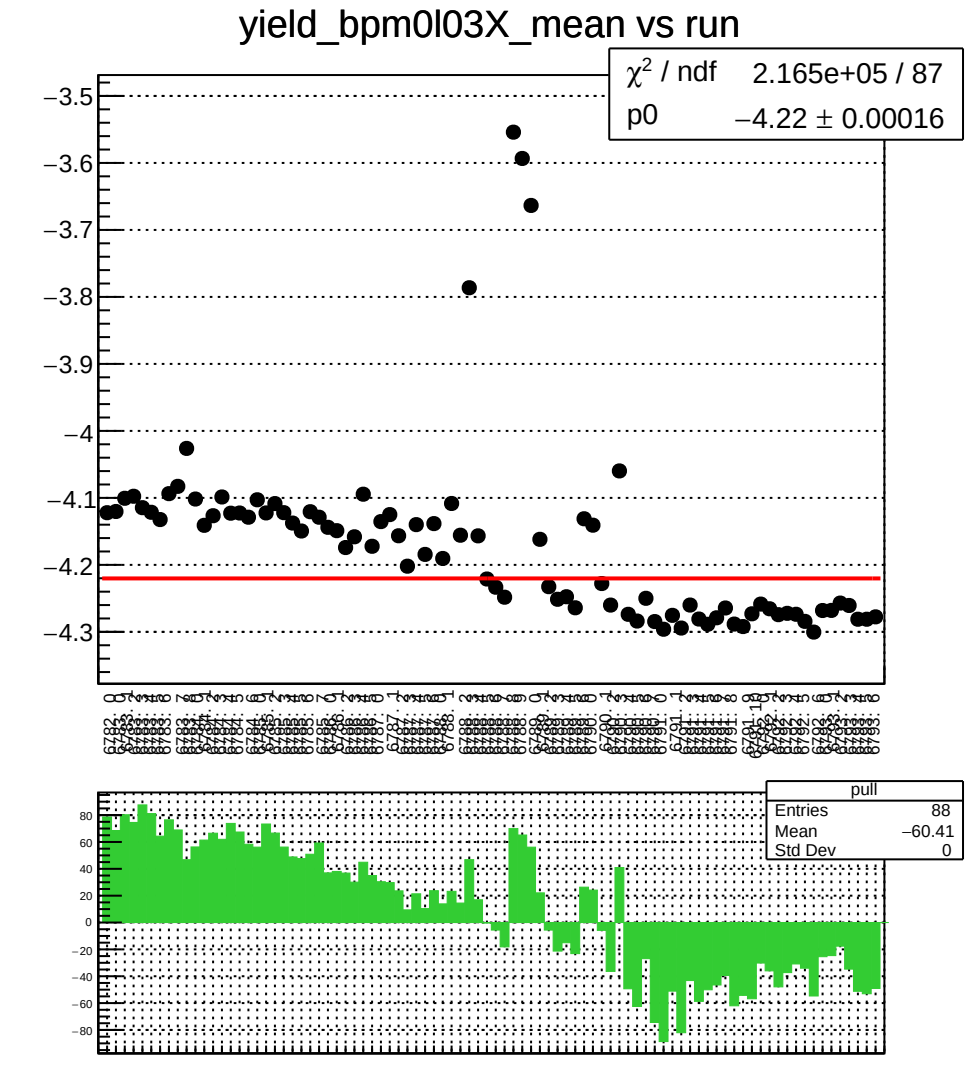

pull1D
Entries 88
Mean −5.937
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

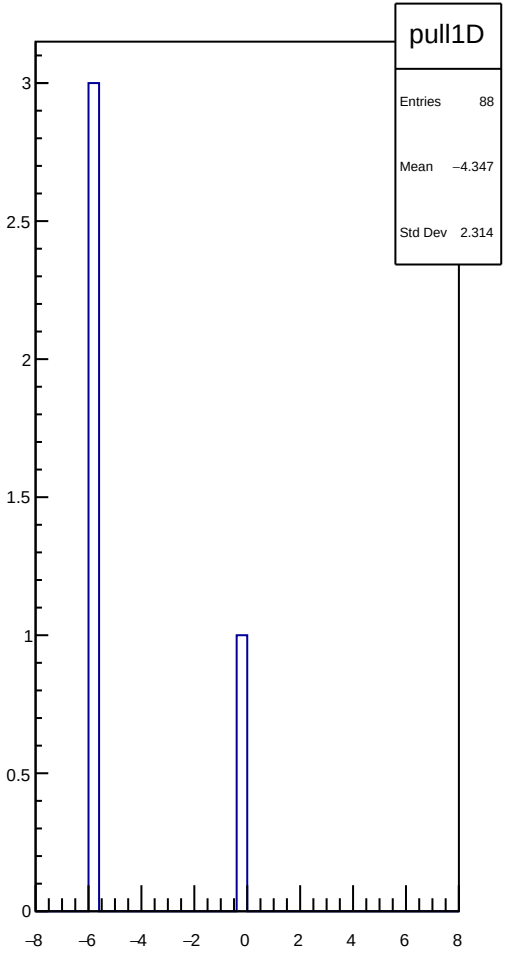

yield_bpm0l02X_rms vs run
χ² / ndf 1.574e+05 / 87
p0 0.02372 ± 1.939e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

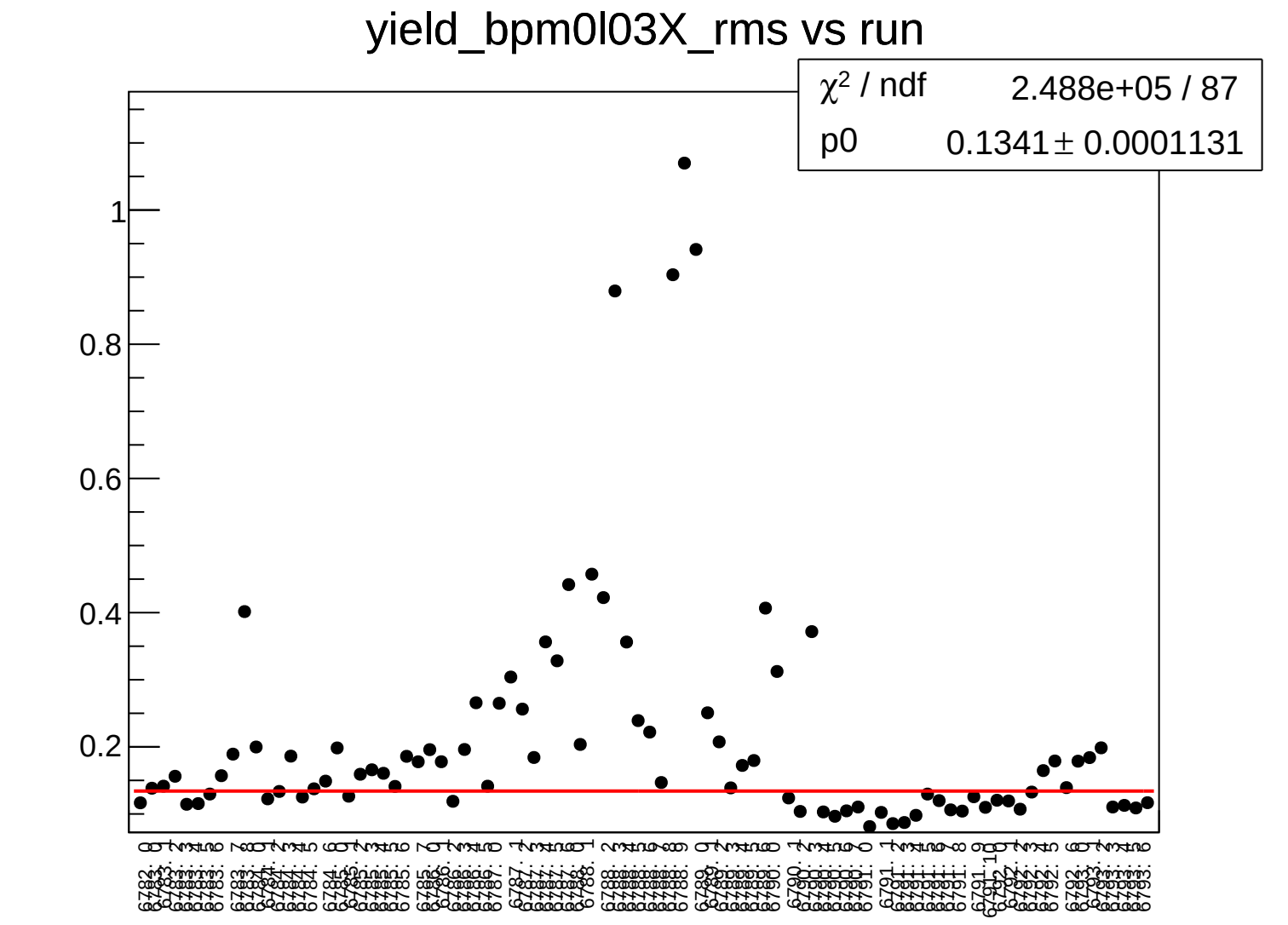

yield_bpm0l02Y_mean vs run
χ² / ndf 2.544e+07 / 87
p0 0.5858 ± 1.004e−05
pull
Entries 88
Mean −210.5
Std Dev 0

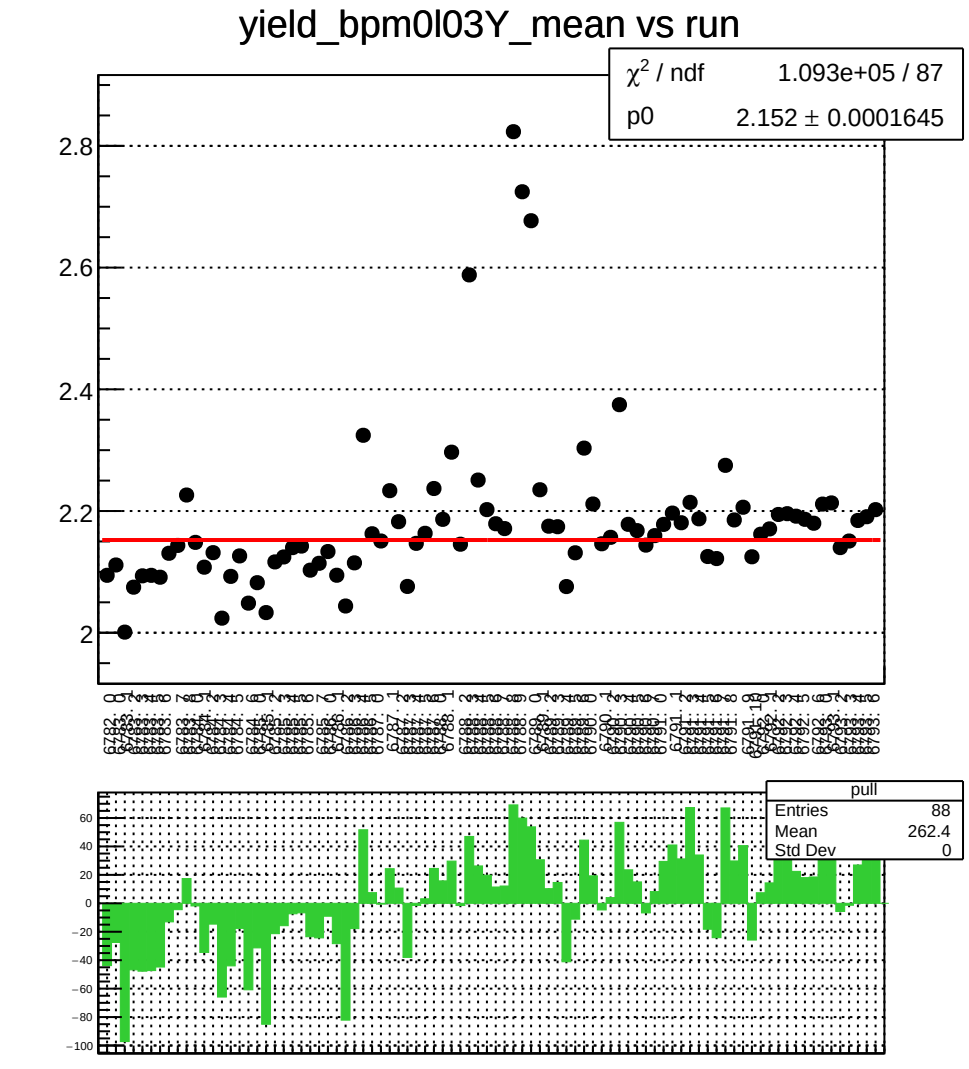

pull1D
Entries 88
Mean −5.602
Std Dev 0

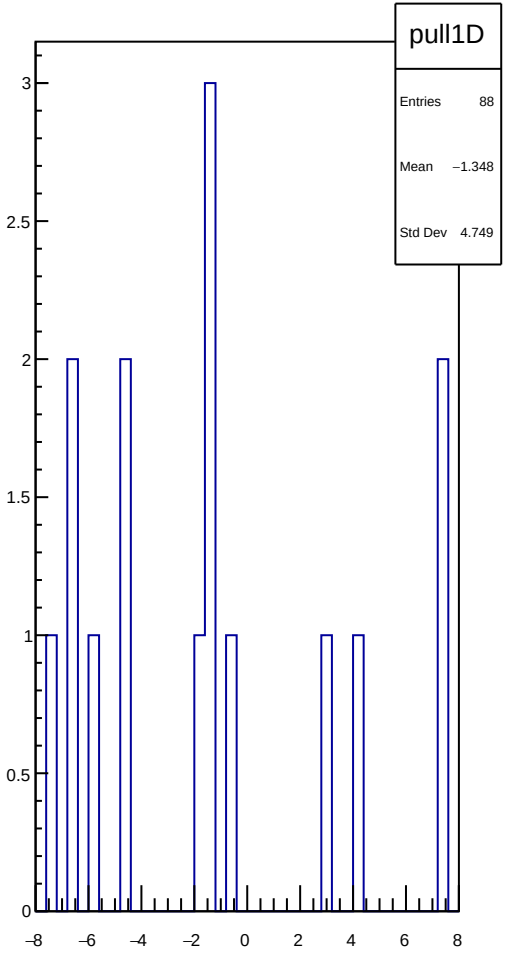

yield_bpm0l02Y_rms vs run
χ² / ndf 2.297e+05 / 87
p0 0.008475 ± 7.099e−06
0.05
0.04
0.03
0.02
0.01

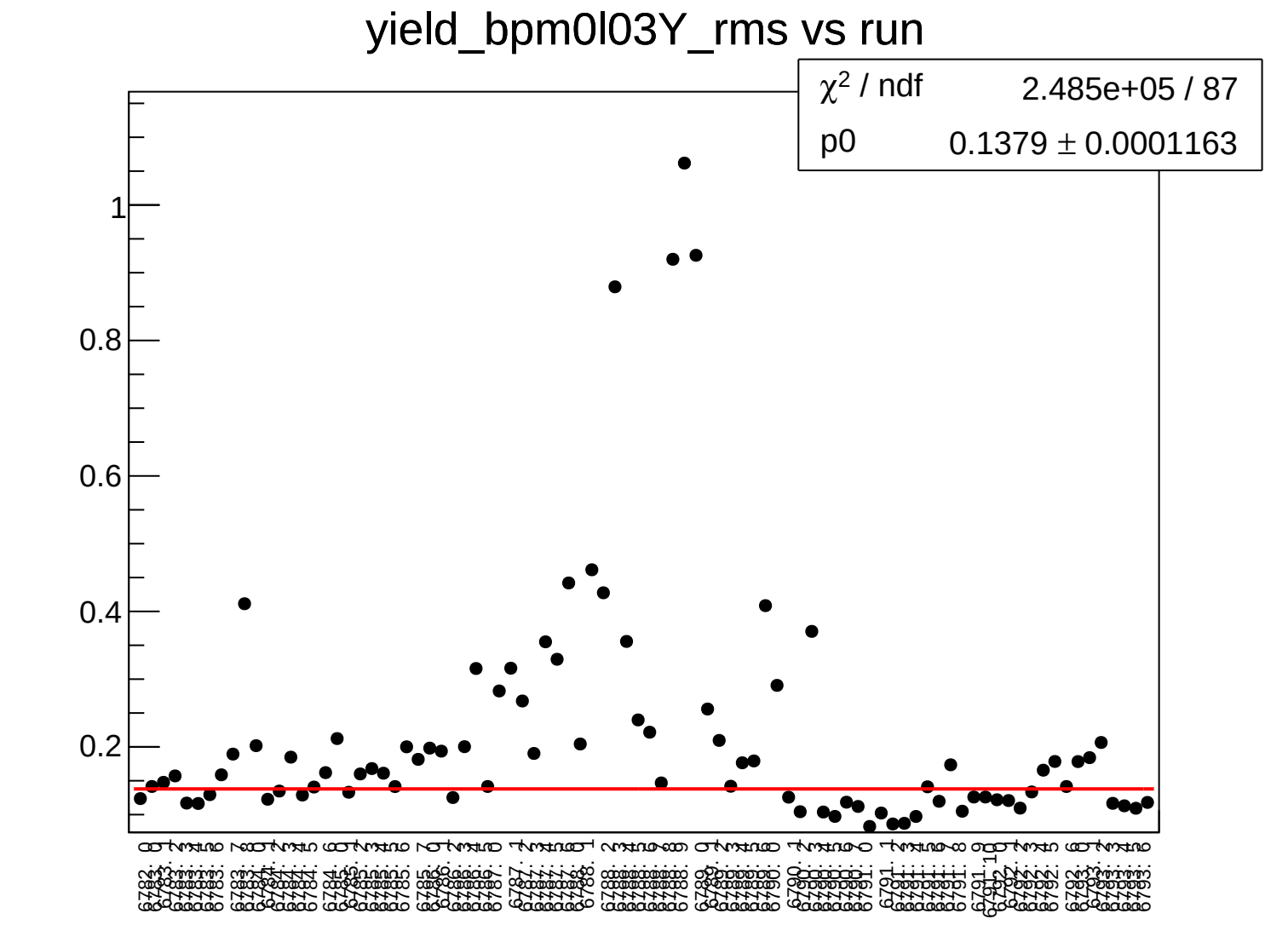

yield_bpm0l03X_mean vs run
χ² / ndf 2.165e+05 / 87
p0 −4.22 ± 0.00016
pull
Entries 88
Mean −60.41
Std Dev 0

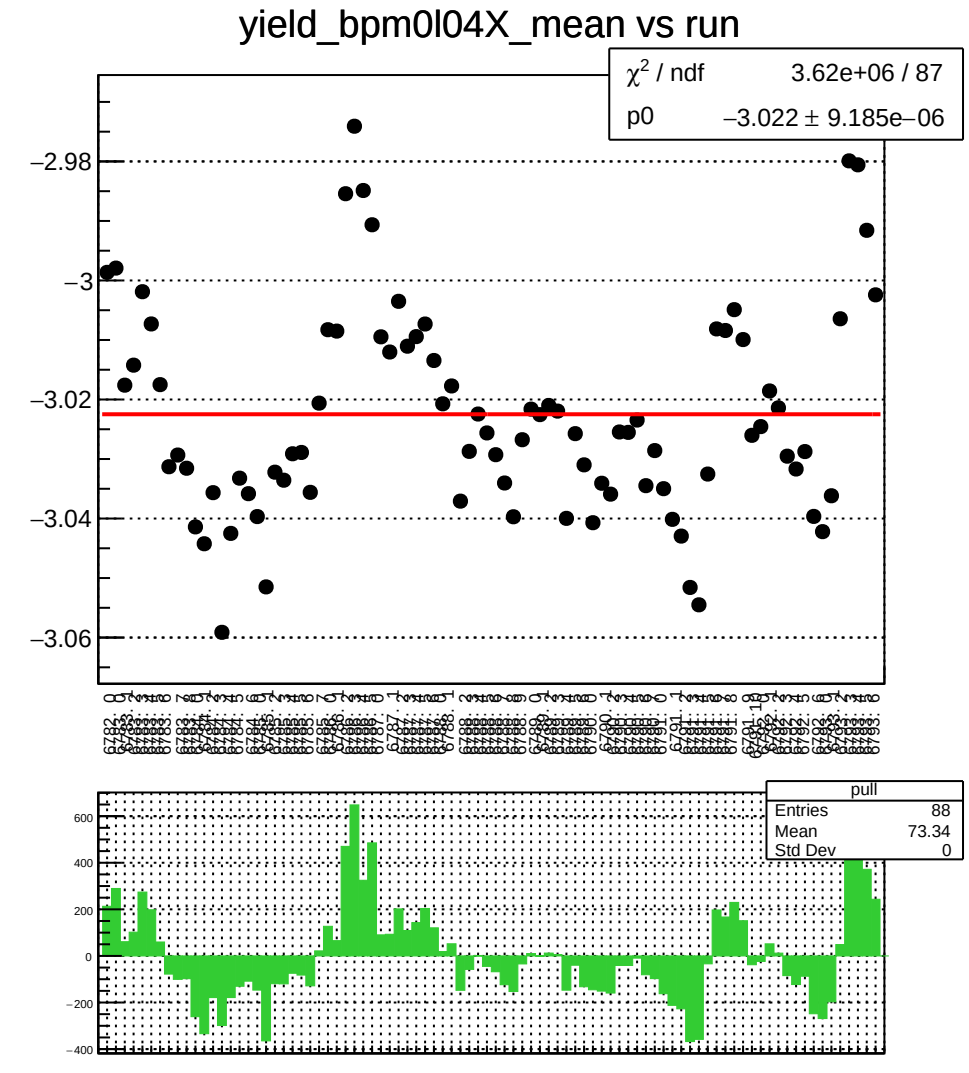

pull1D
Entries 88
Mean −4.347
Std Dev 2.314

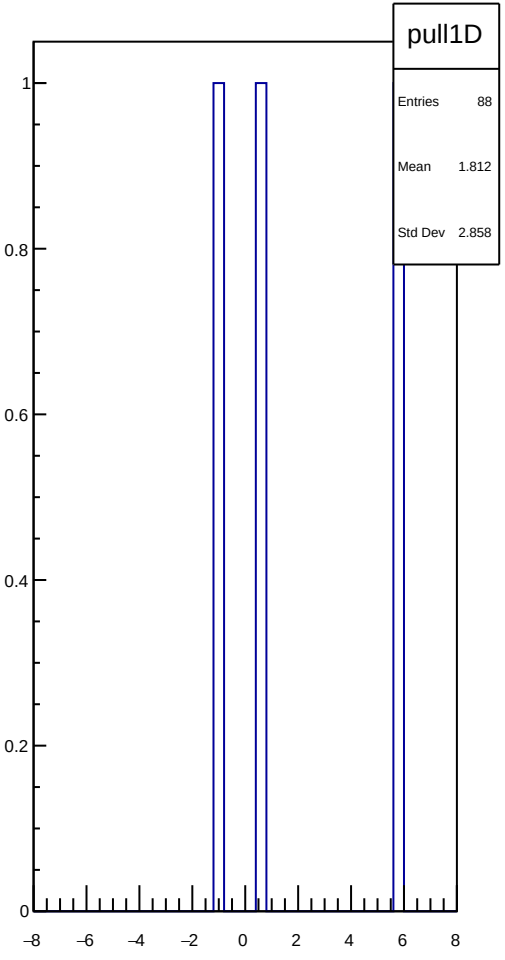

yield_bpm0l03X_rms vs run
χ² / ndf 2.488e+05 / 87
p0 0.1341 ± 0.0001131
1
0.8
0.6
0.4
0.2

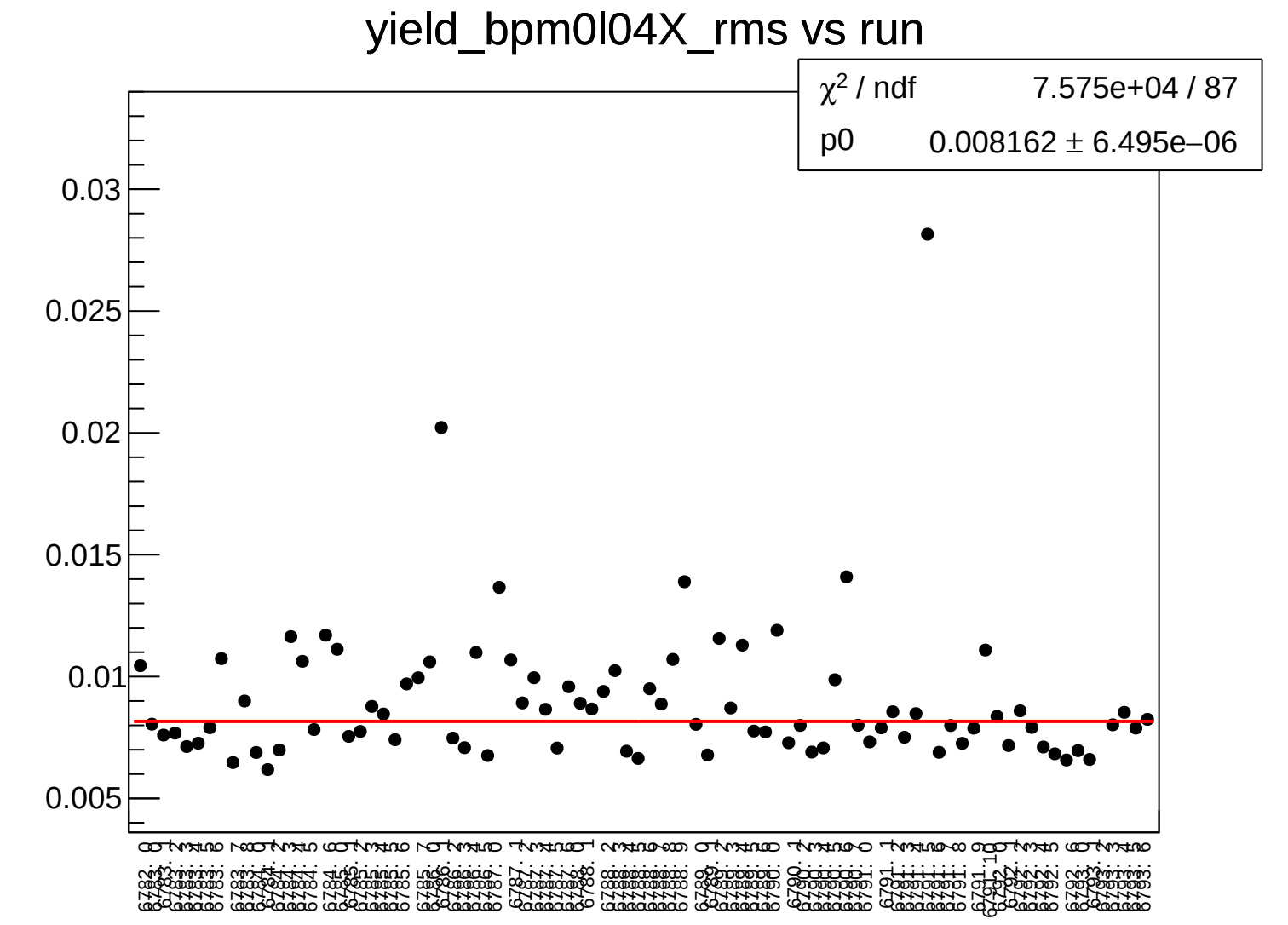

yield_bpm0l03Y_mean vs run
χ² / ndf 1.093e+05 / 87
p0 2.152 ± 0.0001645
pull
Entries 88
Mean 262.4
Std Dev 0

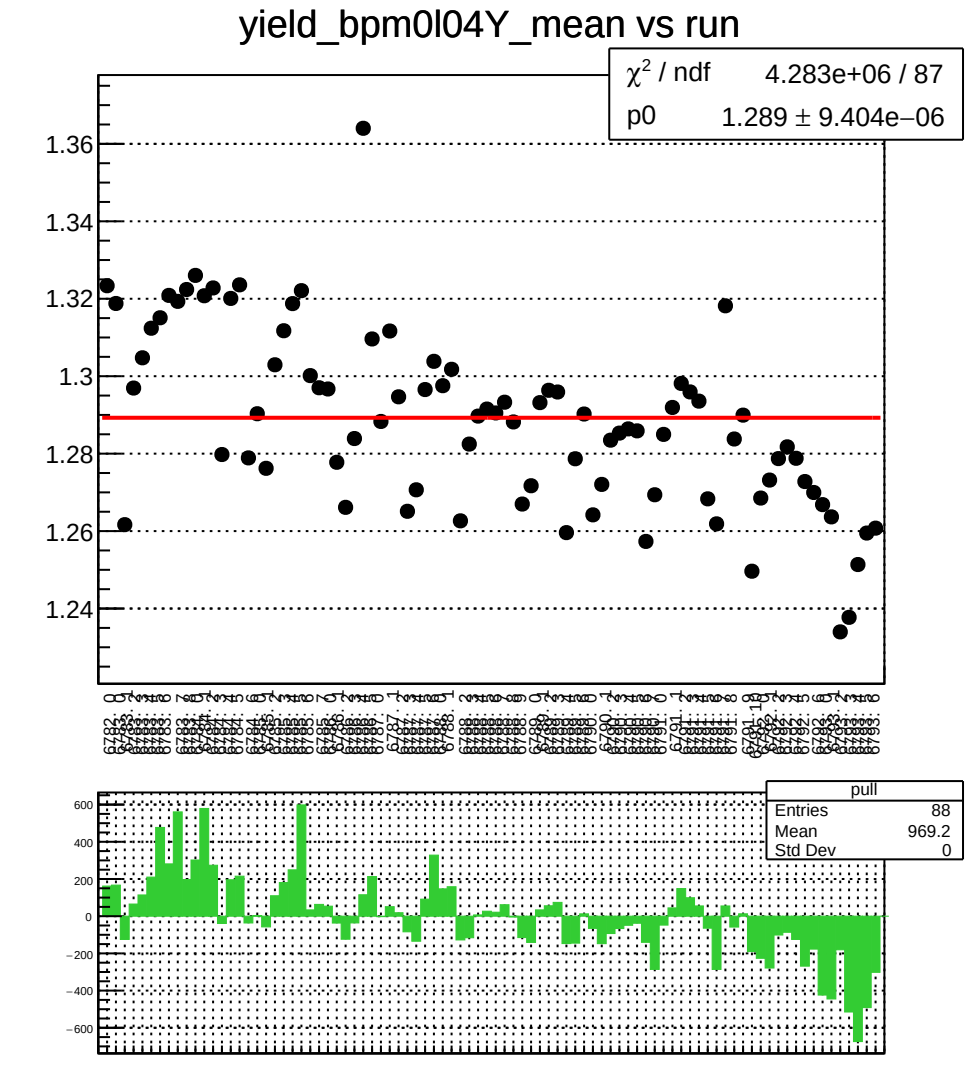

pull1D
Entries 88
Mean −1.348
Std Dev 4.749

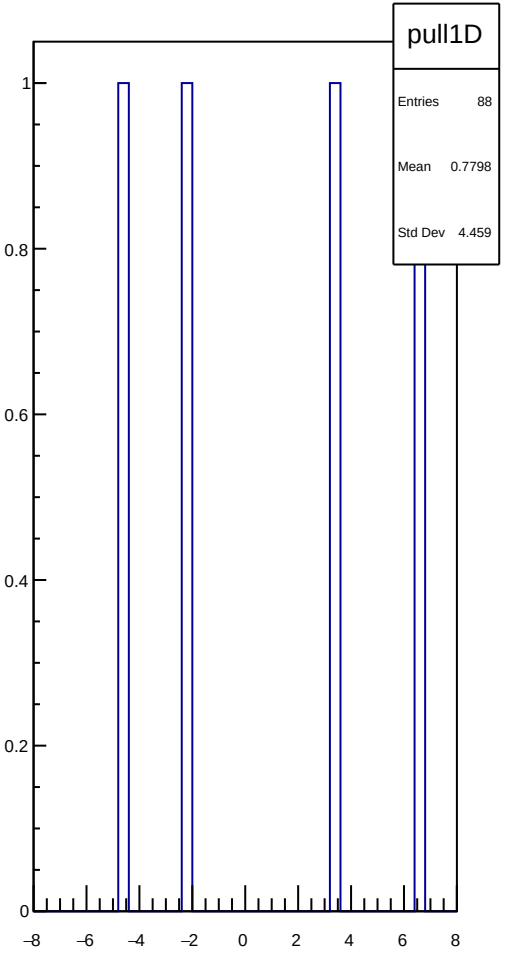

yield_bpm0l03Y_rms vs run
χ² / ndf 2.485e+05 / 87
p0 0.1379 ± 0.0001163
1
0.8
0.6
0.4
0.2

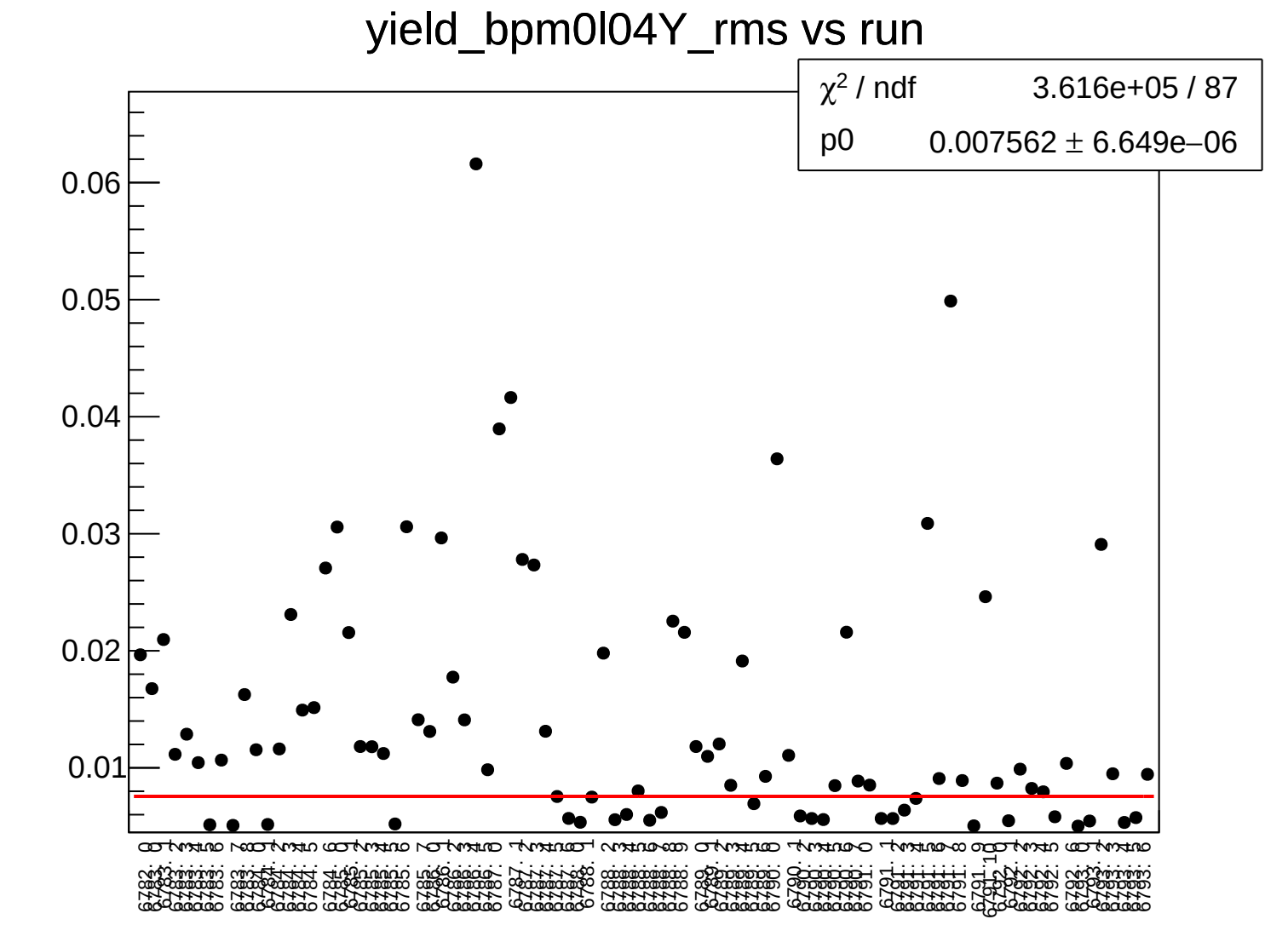

yield_bpm0l04X_mean vs run
χ² / ndf 3.62e+06 / 87
p0 −3.022 ± 9.185e−06
−2.98
−3
−3.02
−3.04
−3.06
pull
Entries 88
Mean 73.34
Std Dev 0
600
400
200
0
−200
−400

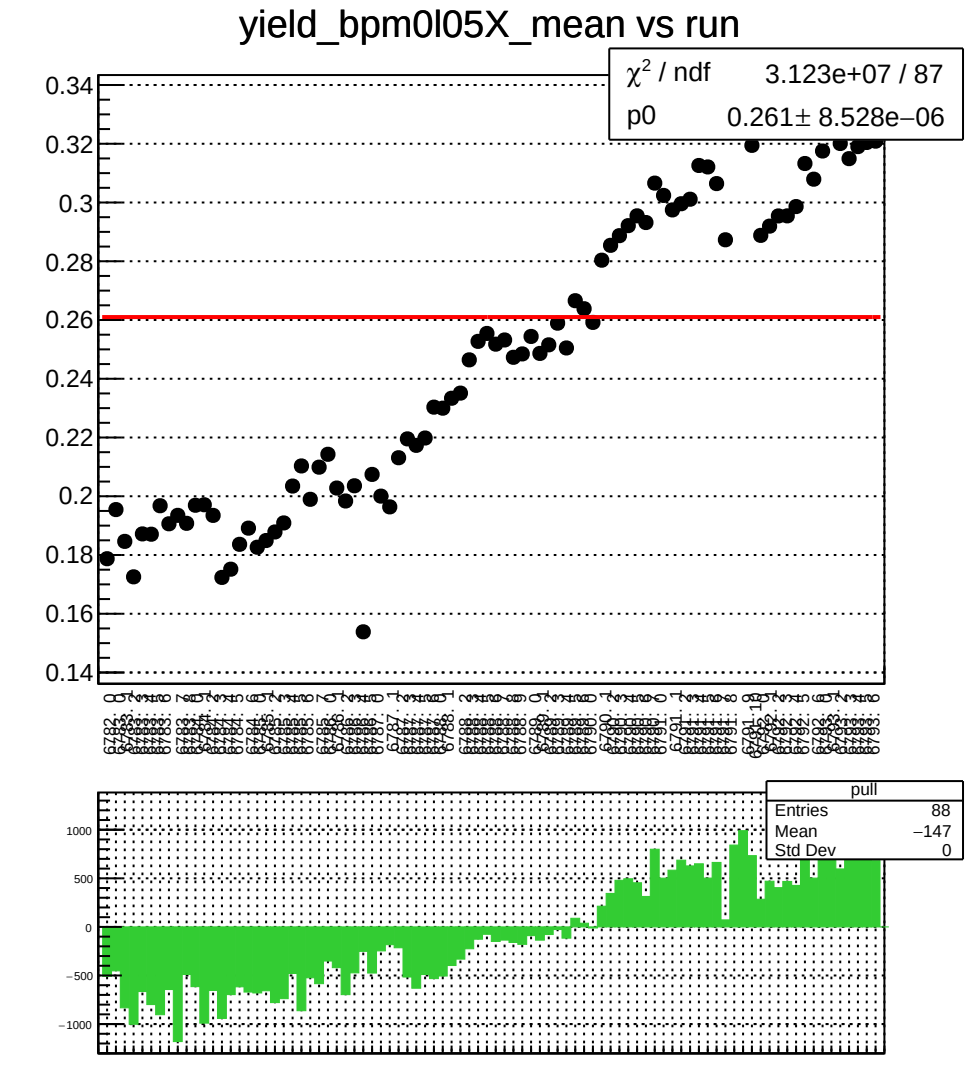

pull1D
Entries 88
Mean 1.812
Std Dev 2.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

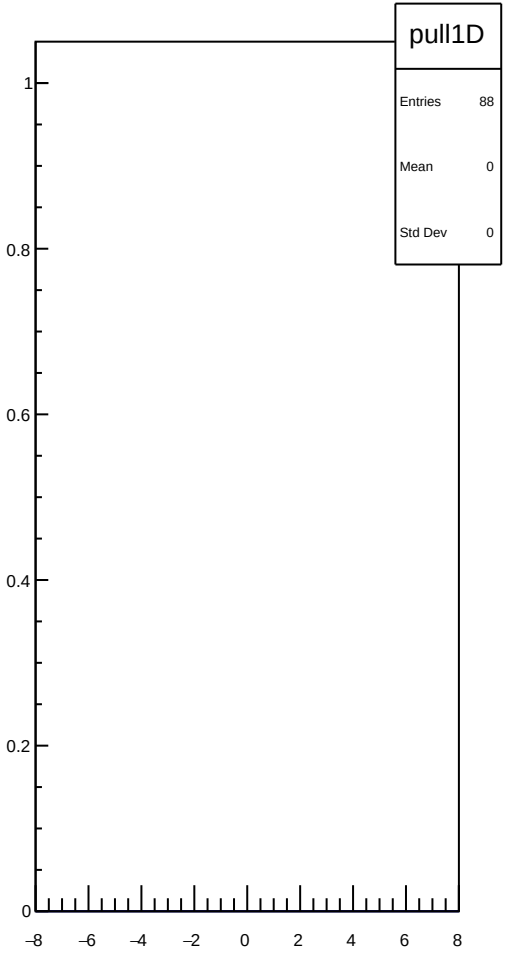

yield_bpm0l04X_rms vs run
χ² / ndf 7.575e+04 / 87
p0 0.008162 ± 6.495e−06
0.03
0.025
0.02
0.015
0.01
0.005

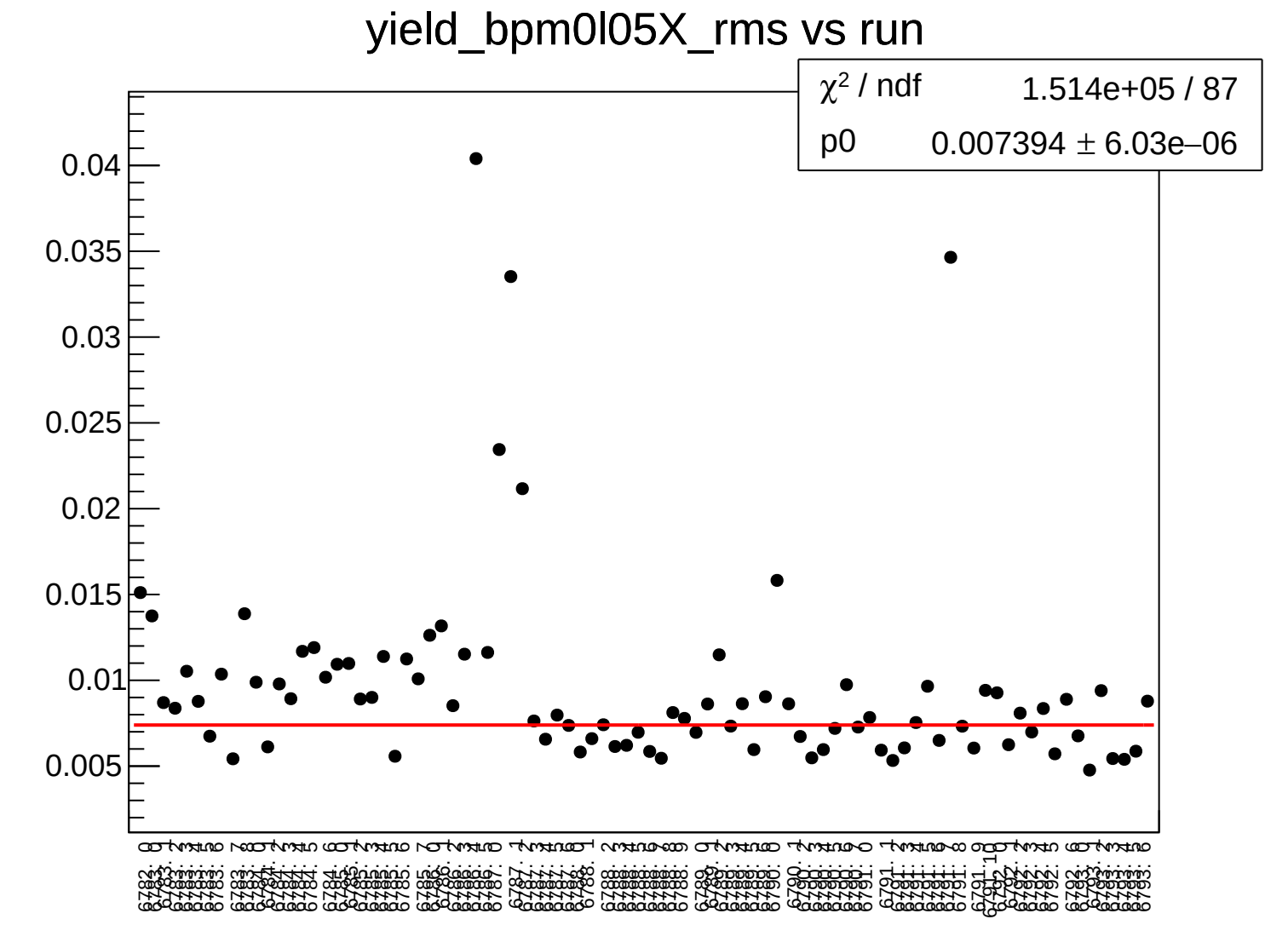

yield_bpm0l04Y_mean vs run
χ² / ndf 4.283e+06 / 87
p0 1.289 ± 9.404e−06
1.36
1.34
1.32
1.3
1.28
1.26
1.24
pull
Entries 88
Mean 969.2
Std Dev 0
600
400
200
0
−200
−400
−600

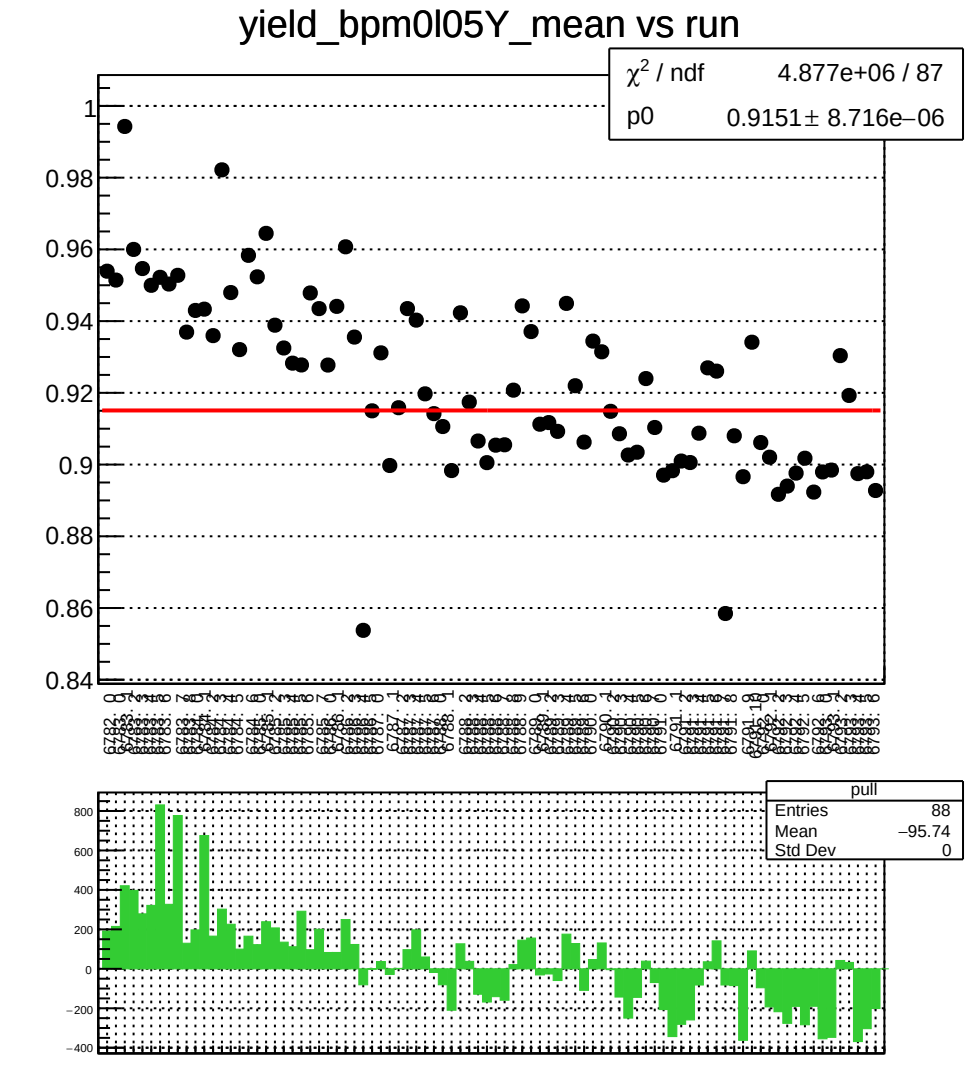

pull1D
Entries 88
Mean 0.7798
Std Dev 4.459
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

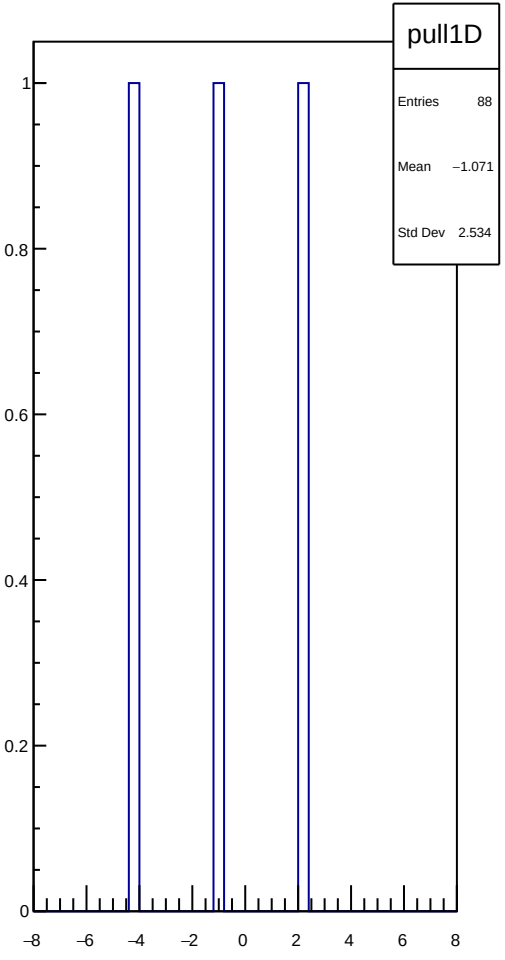

yield_bpm0l04Y_rms vs run
χ² / ndf 3.616e+05 / 87
p0 0.007562 ± 6.649e−06
0.06
0.05
0.04
0.03
0.02
0.01

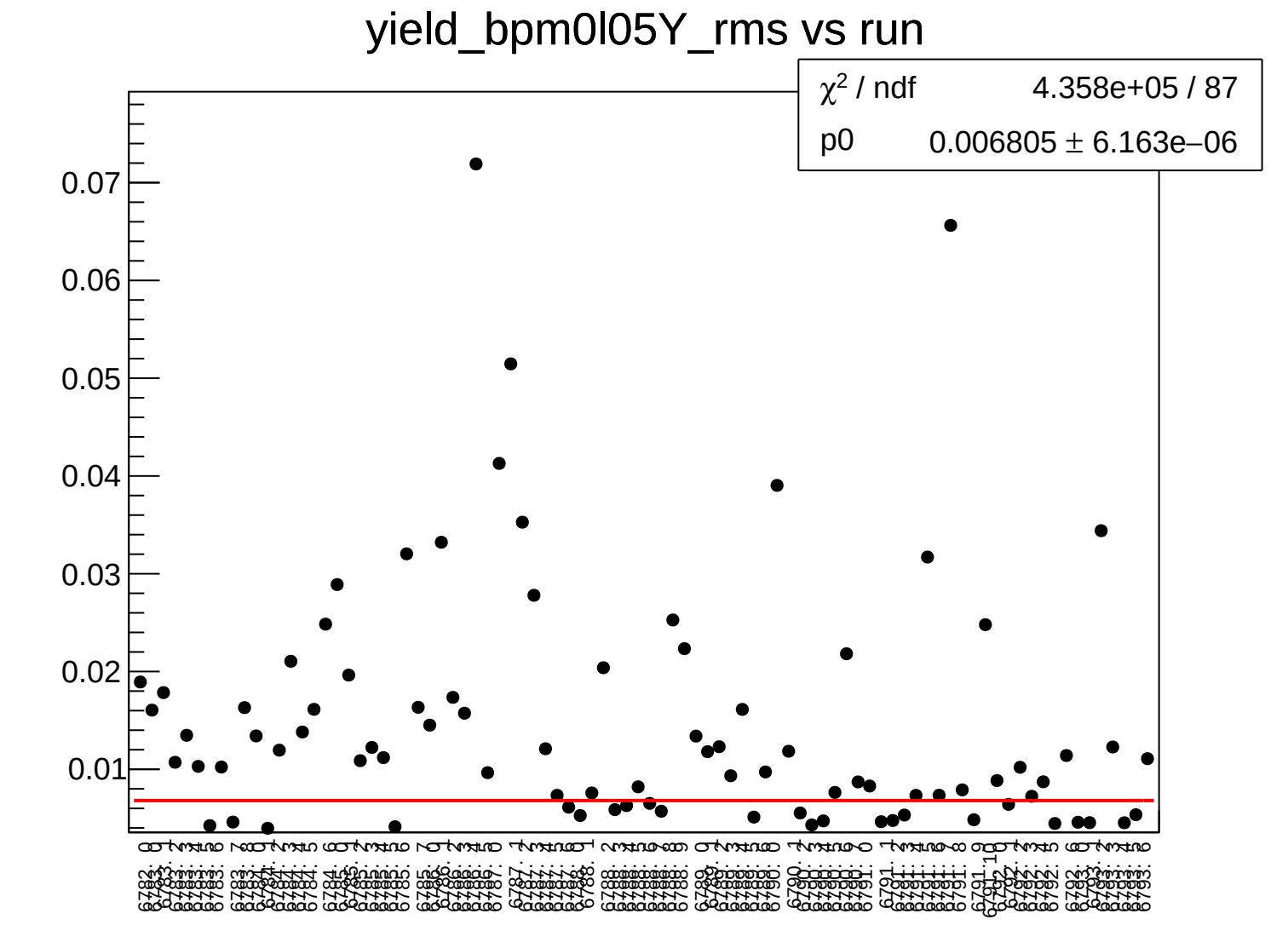

yield_bpm0l05X_mean vs run
χ² / ndf 3.123e+07 / 87
p0 0.261± 8.528e−06
pull
Entries 88
Mean −147
Std Dev 0

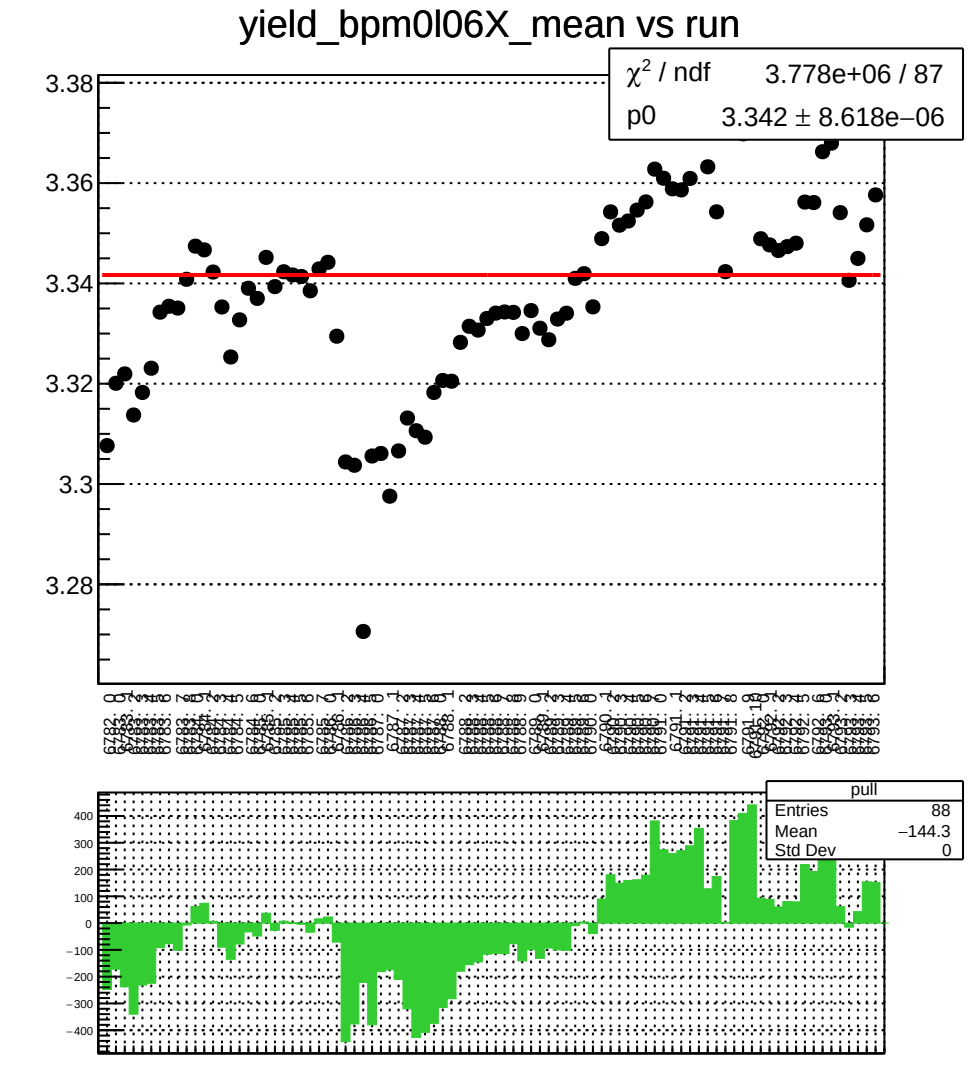

pull1D
Entries 88
Mean 0
Std Dev 0

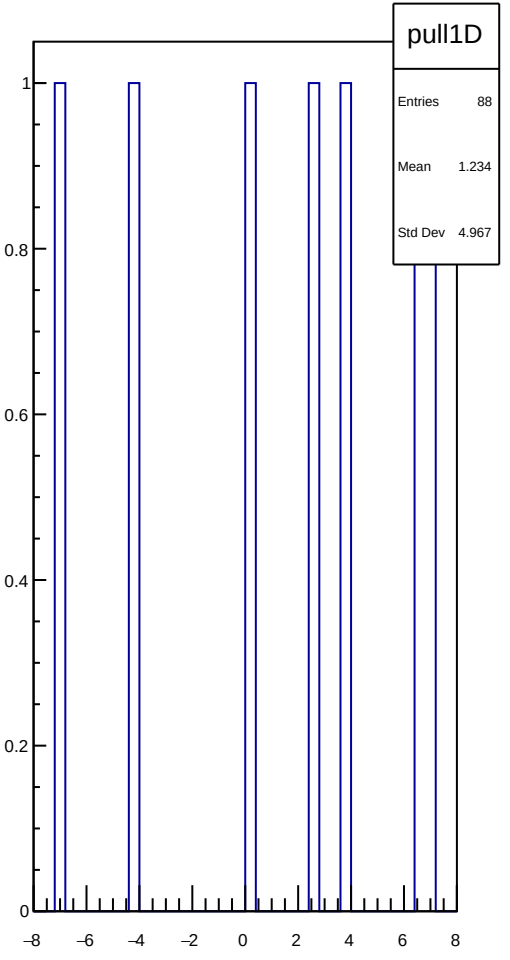

yield_bpm0l05X_rms vs run
χ² / ndf 1.514e+05 / 87
p0 0.007394 ± 6.03e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

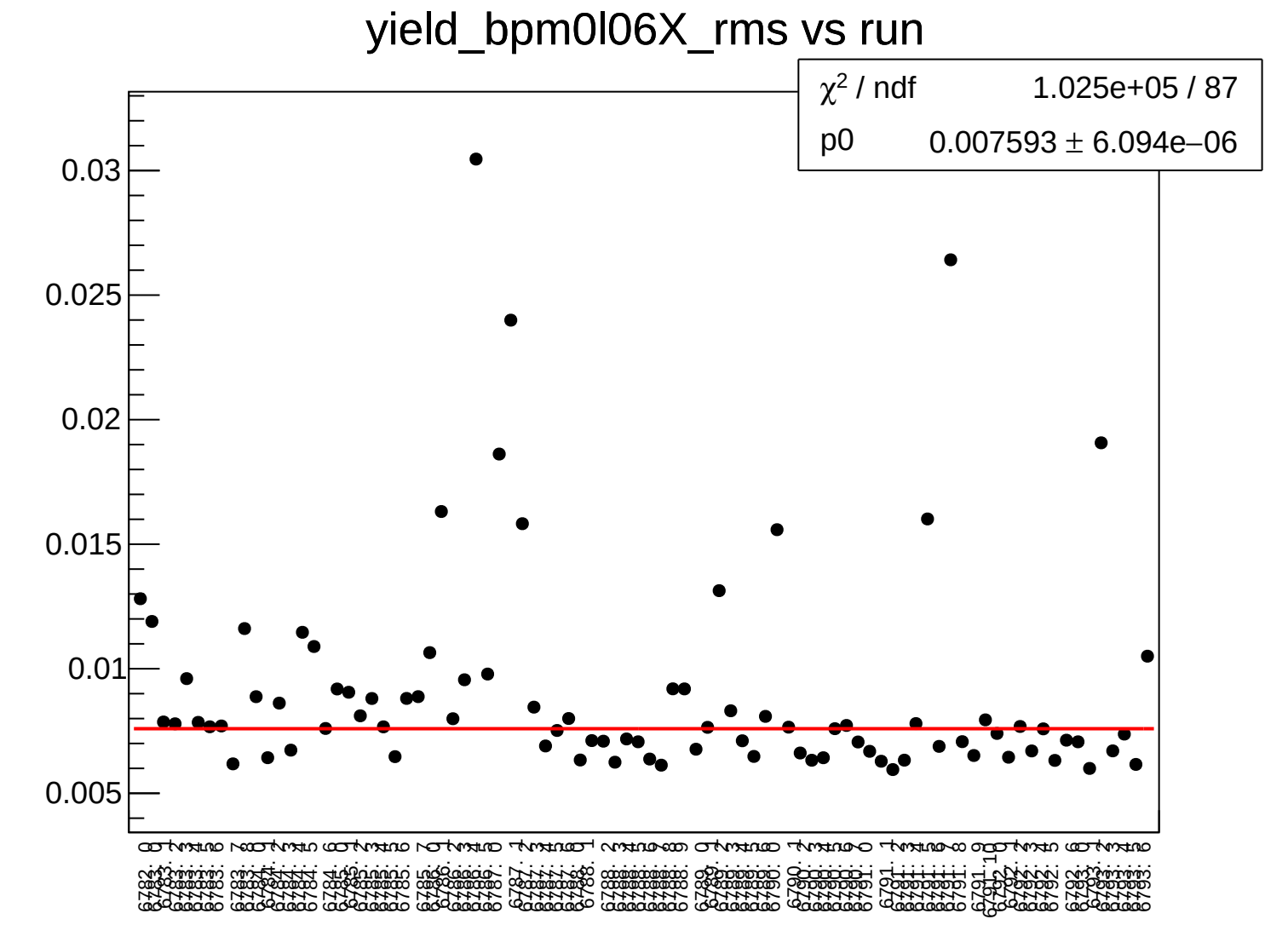

yield_bpm0l05Y_mean vs run
χ² / ndf 4.877e+06 / 87
p0 0.9151 ± 8.716e−06
pull
Entries 88
Mean −95.74
Std Dev 0

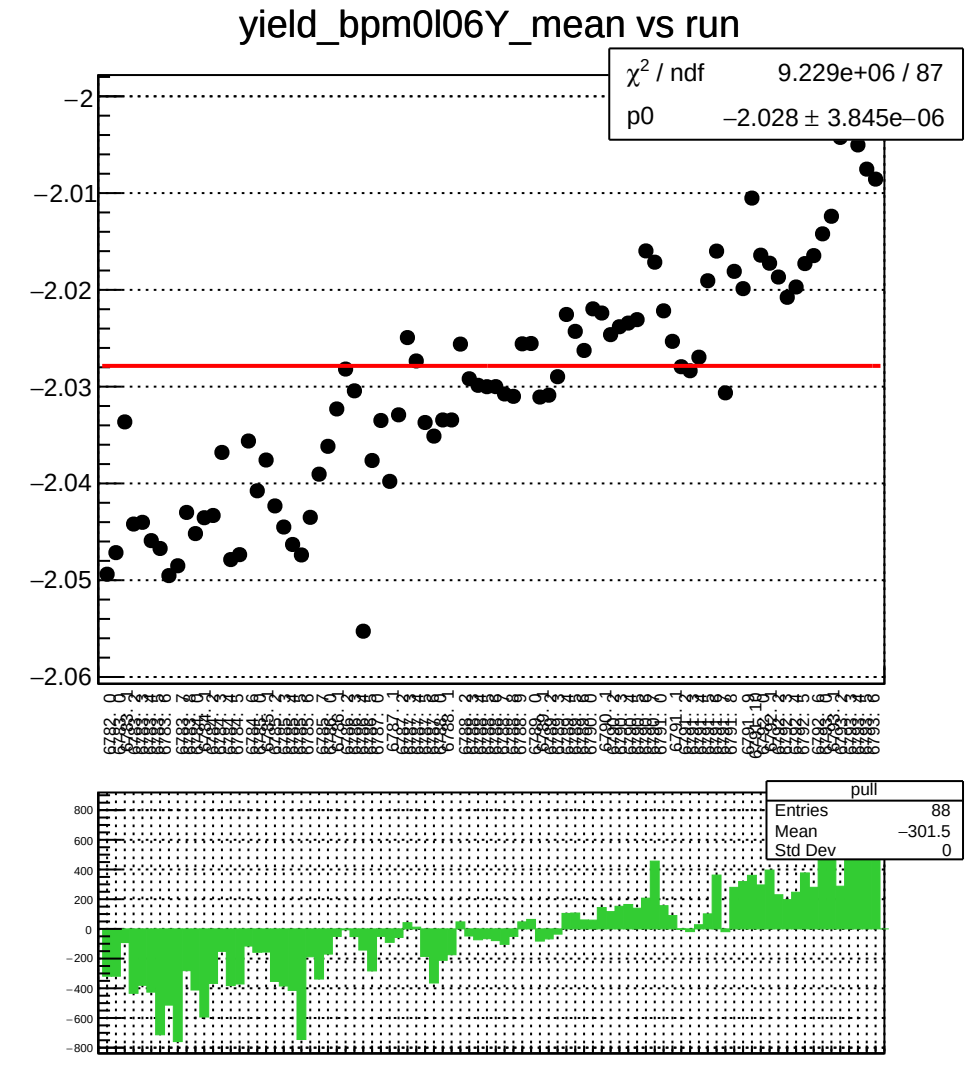

pull1D
Entries 88
Mean −1.071
Std Dev 2.534

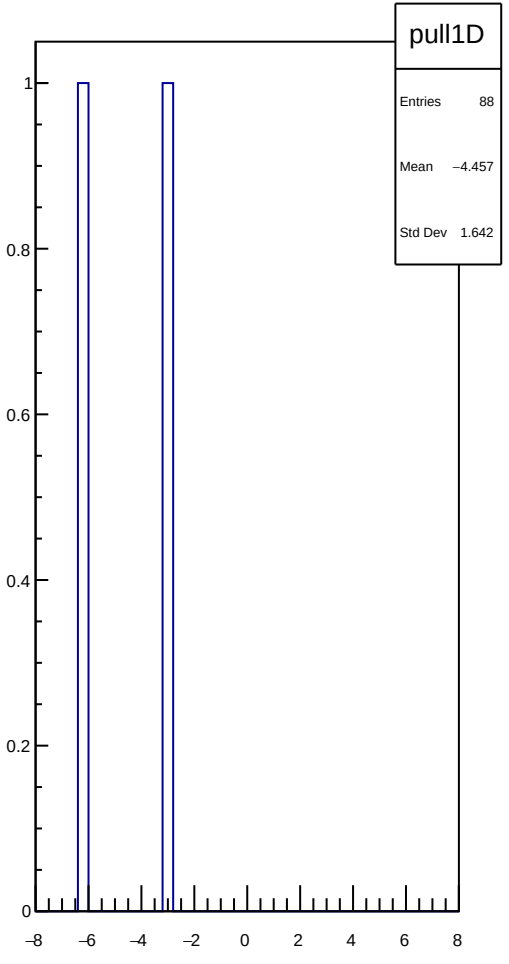

yield_bpm0l05Y_rms vs run
χ² / ndf 4.358e+05 / 87
p0 0.006805 ± 6.163e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

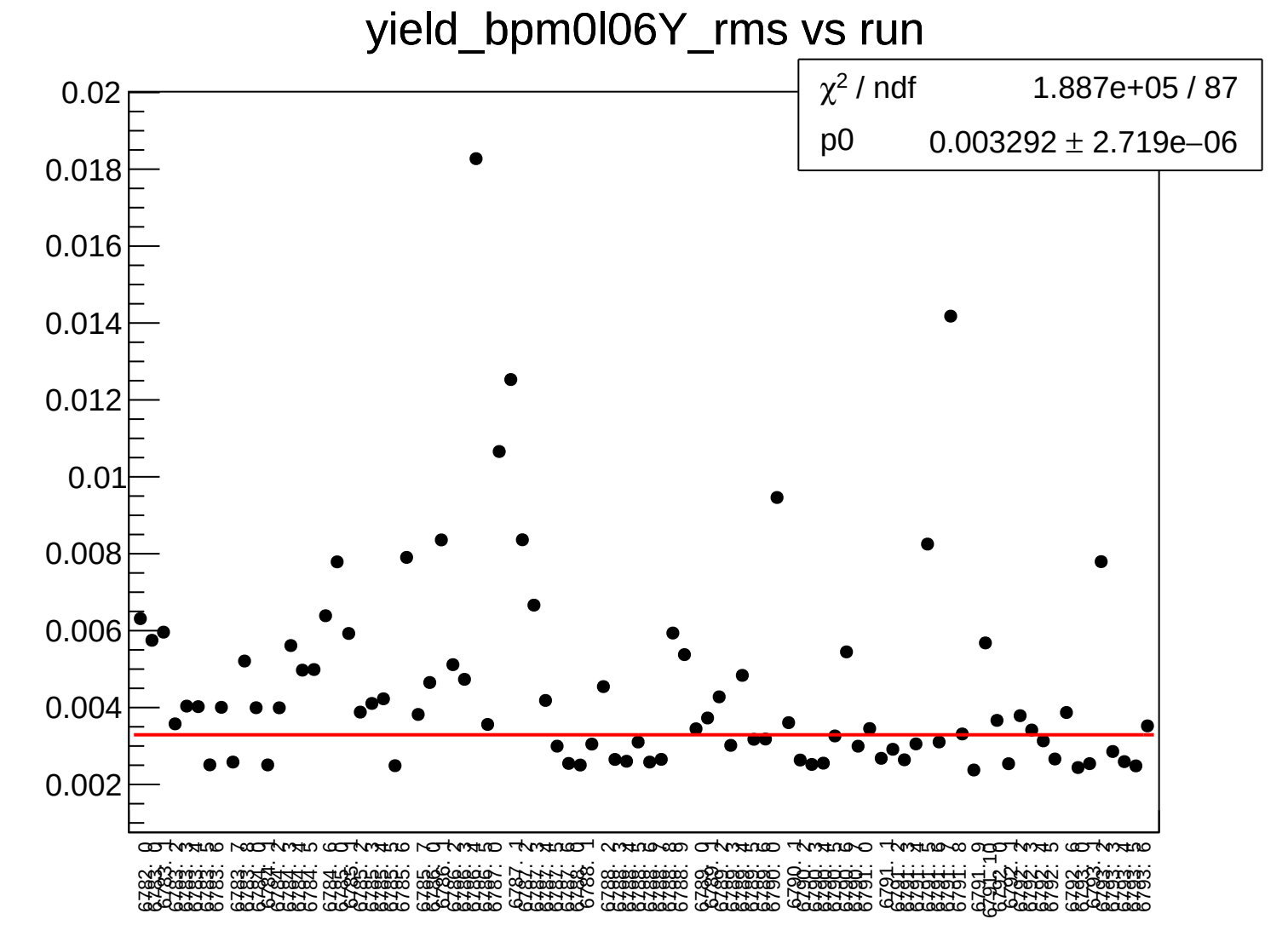

yield_bpm0l06X_mean vs run
χ² / ndf 3.778e+06 / 87
p0 3.342 ± 8.618e−06
3.38
3.36
3.34
3.32
3.3
3.28
pull
Entries 88
Mean −144.3
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

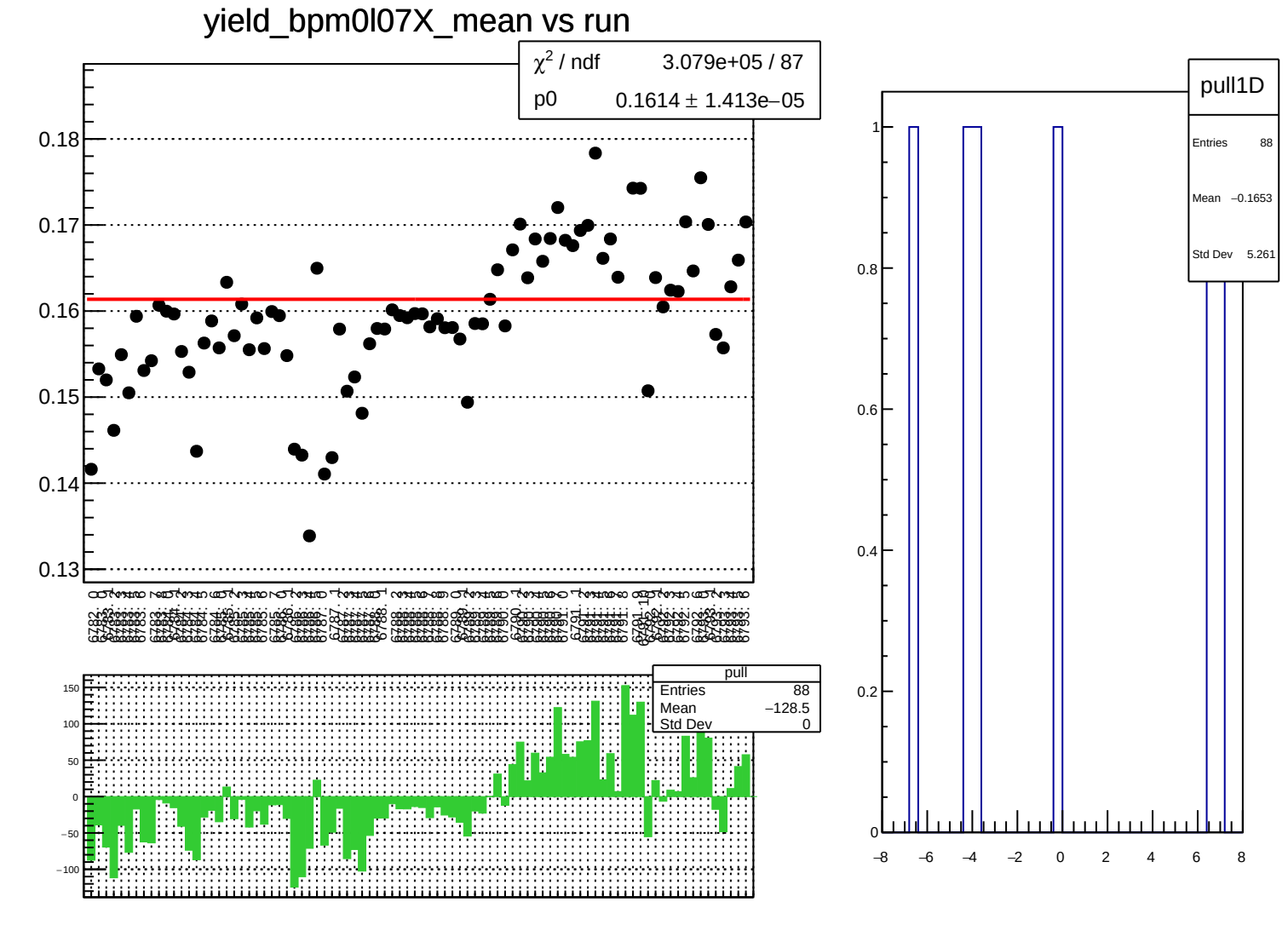

pull1D
Entries 88
Mean 1.234
Std Dev 4.967
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

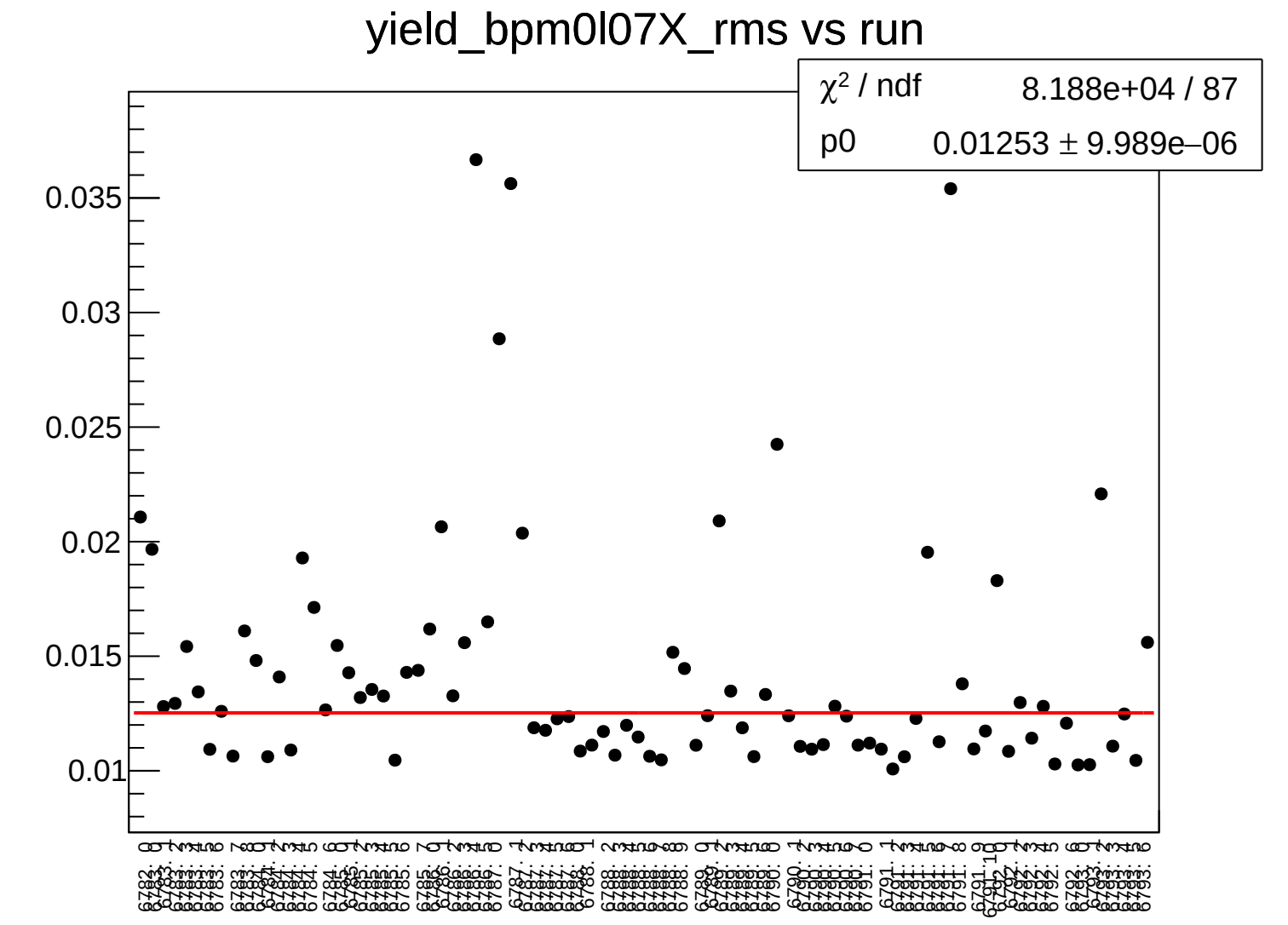

yield_bpm0l06X_rms vs run
χ² / ndf 1.025e+05 / 87
p0 0.007593 ± 6.094e−06
0.03
0.025
0.02
0.015
0.01
0.005

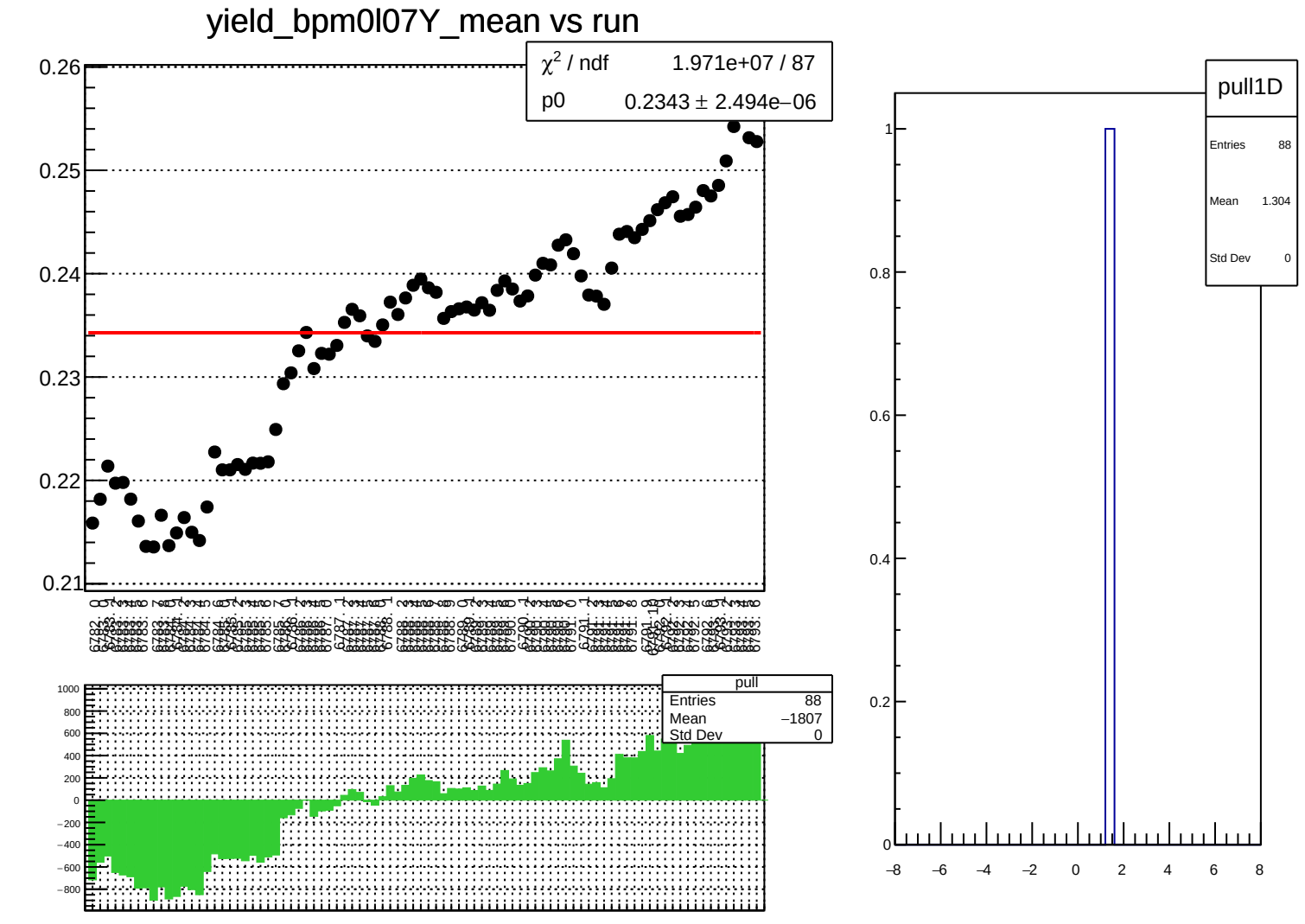

yield_bpm0l06Y_mean vs run
χ² / ndf 9.229e+06 / 87
p0 −2.028 ± 3.845e−06
−2
−2.01
−2.02
−2.03
−2.04
−2.05
−2.06
pull
Entries 88
Mean −301.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

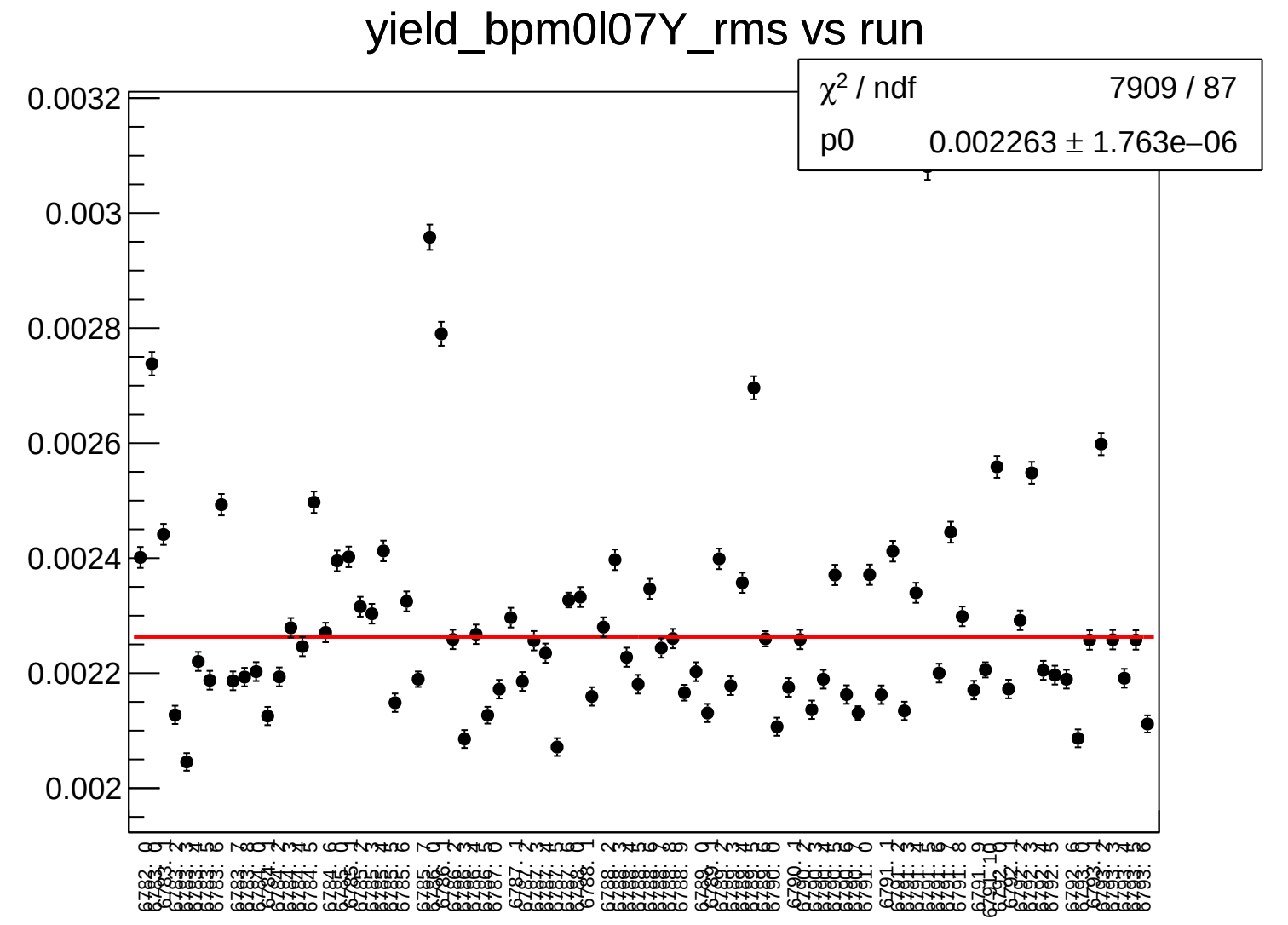

pull1D
Entries 88
Mean −4.457
Std Dev 1.642
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

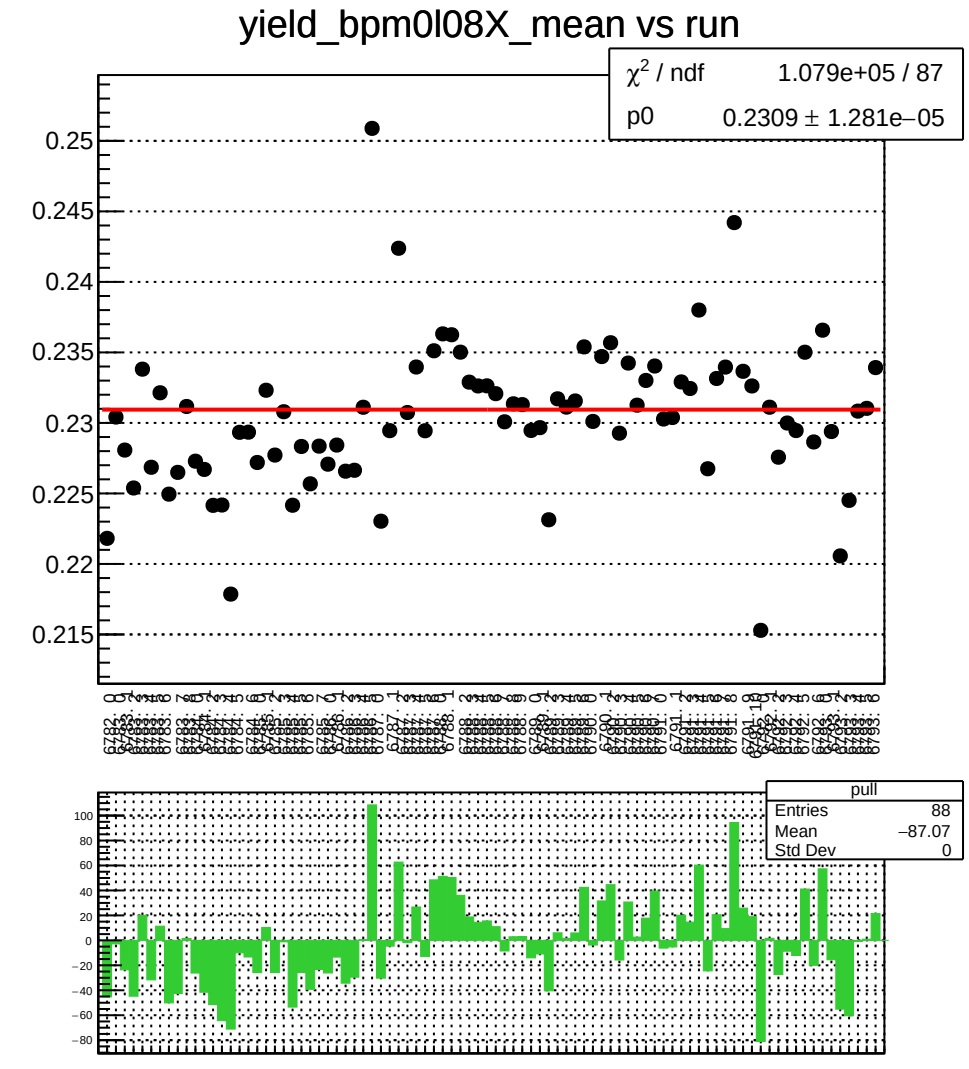

yield_bpm0l06Y_rms vs run
χ² / ndf 1.887e+05 / 87
p0 0.003292 ± 2.719e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

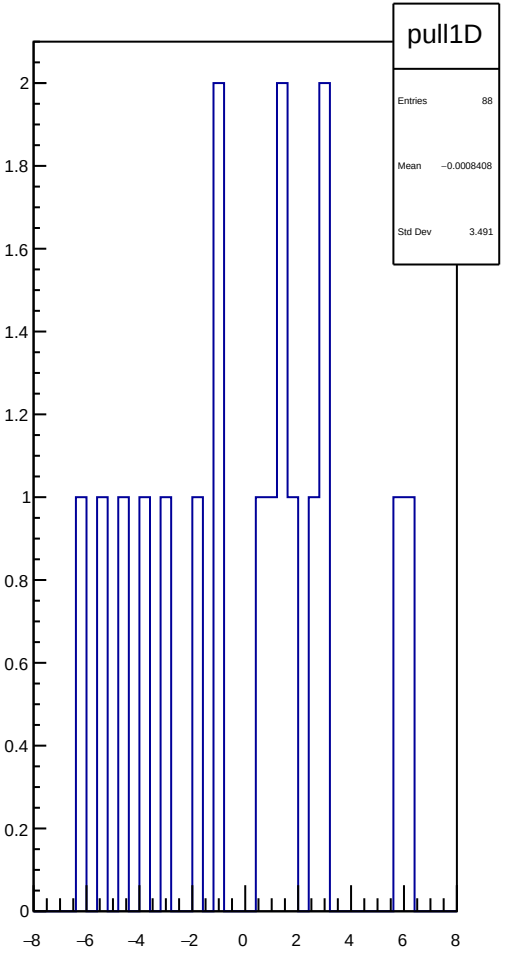

yield_bpm0l07X_mean vs run
χ² / ndf 3.079e+05 / 87
p0 0.1614 ± 1.413e−05
0.18
0.17
0.16
0.15
0.14
0.13
pull
Entries 88
Mean −128.5
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 88
Mean −0.1653
Std Dev 5.261
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

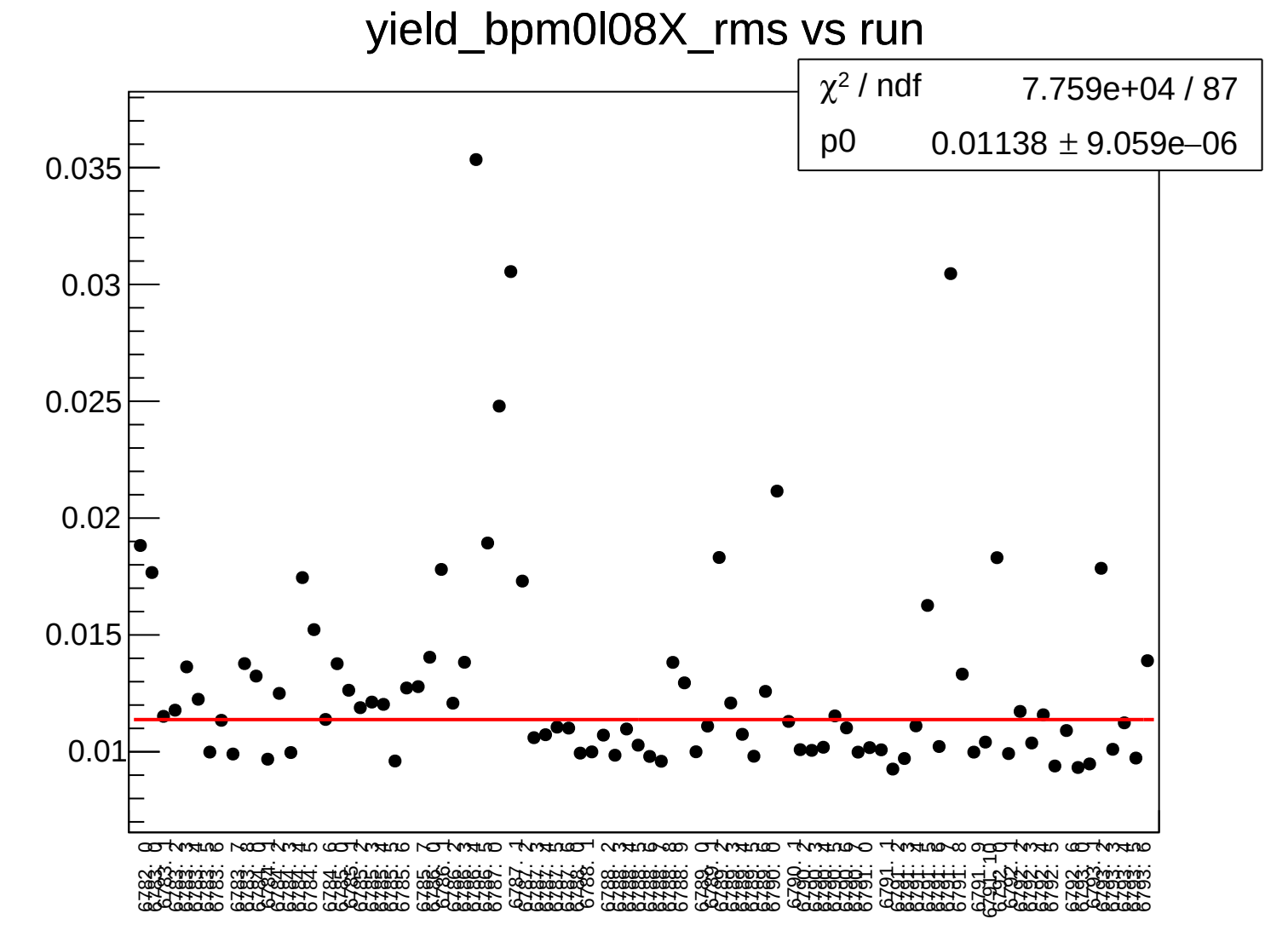

yield_bpm0l07X_rms vs run
χ² / ndf 8.188e+04 / 87
p0 0.01253 ± 9.989e–06
0.035
0.03
0.025
0.02
0.015
0.01

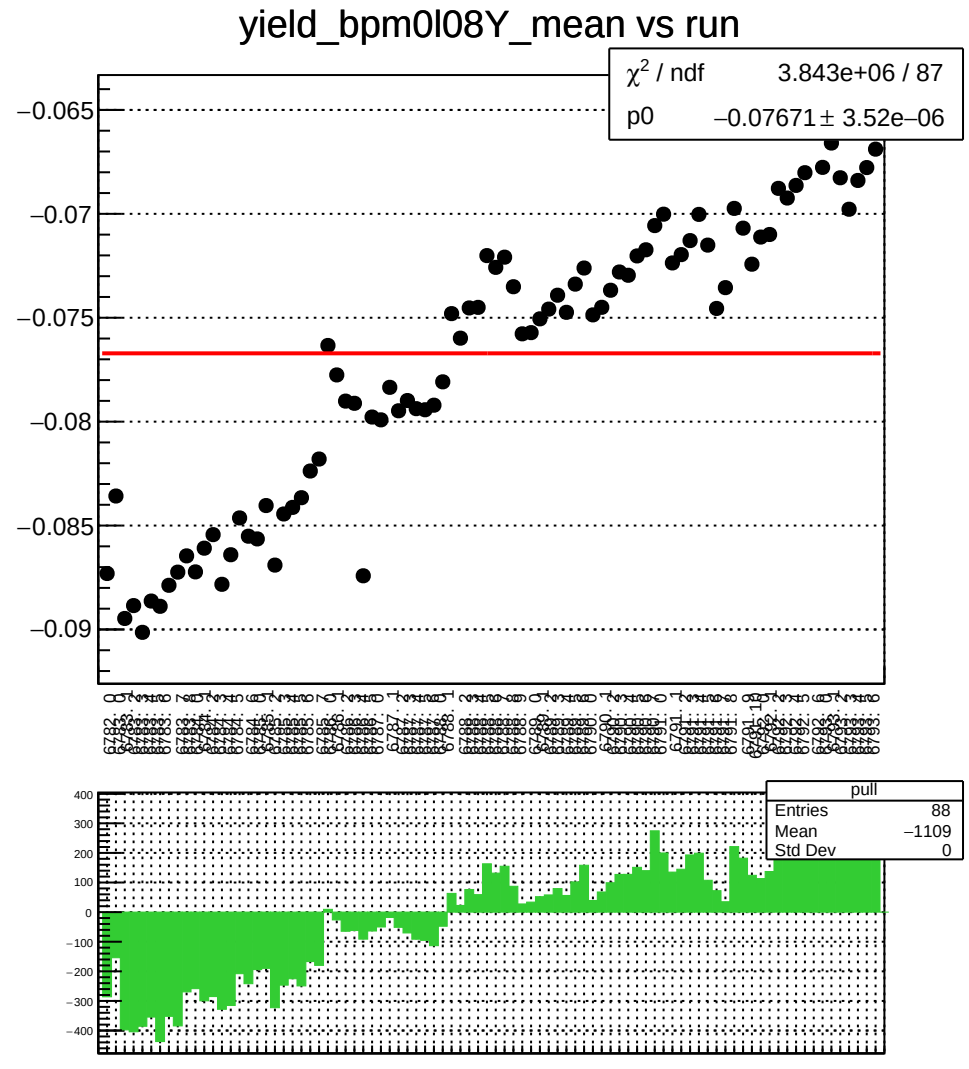

yield_bpm0l07Y_mean vs run
χ² / ndf 1.971e+07 / 87
p0 0.2343 ± 2.494e−06
0.26
0.25
0.24
0.23
0.22
0.21
pull
Entries 88
Mean −1807
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean 1.304
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

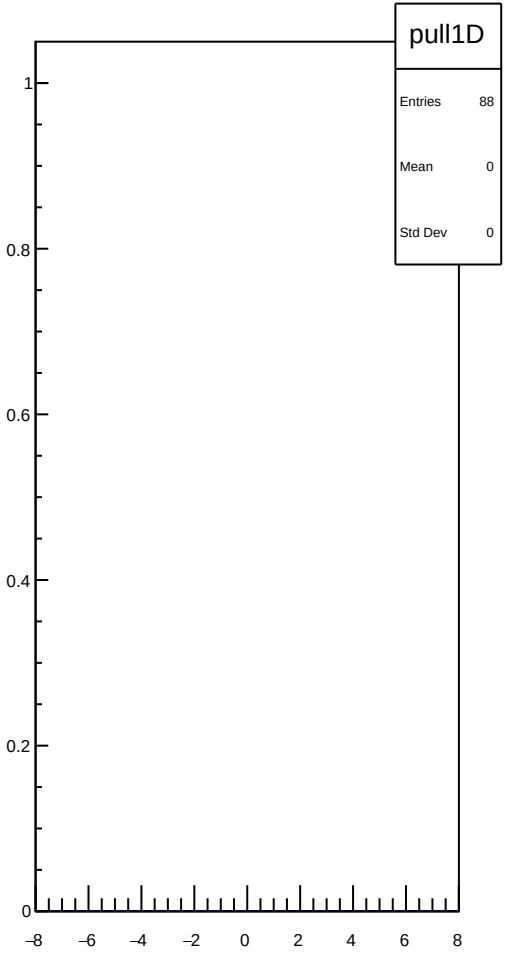

yield_bpm0l07Y_rms vs run
χ² / ndf 7909 / 87
p0 0.002263 ± 1.763e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

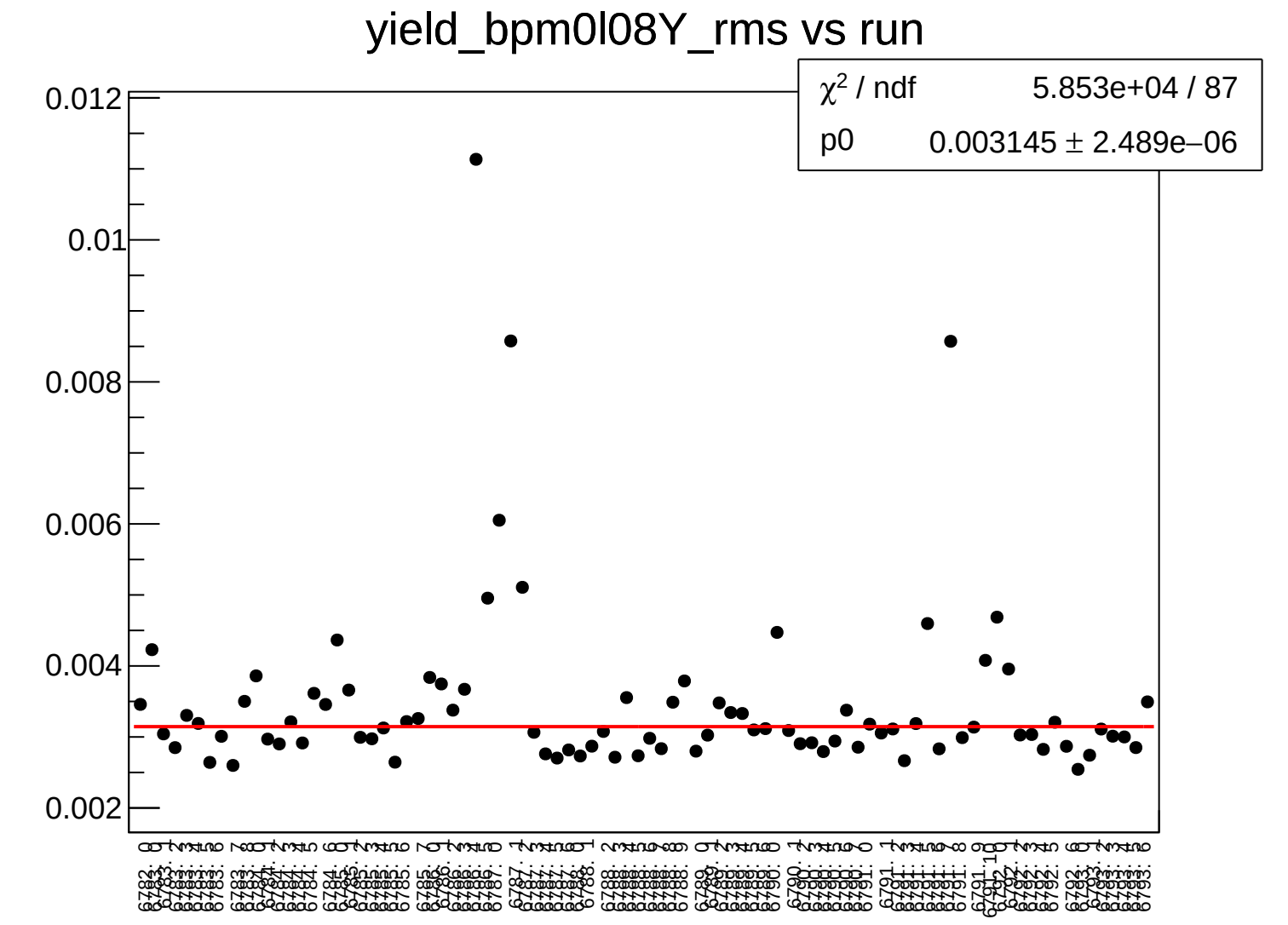

yield_bpm0l08X_mean vs run
χ² / ndf 1.079e+05 / 87
p0 0.2309 ± 1.281e−05
0.25
0.245
0.24
0.235
0.23
0.225
0.22
0.215
pull
Entries 88
Mean −87.07
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

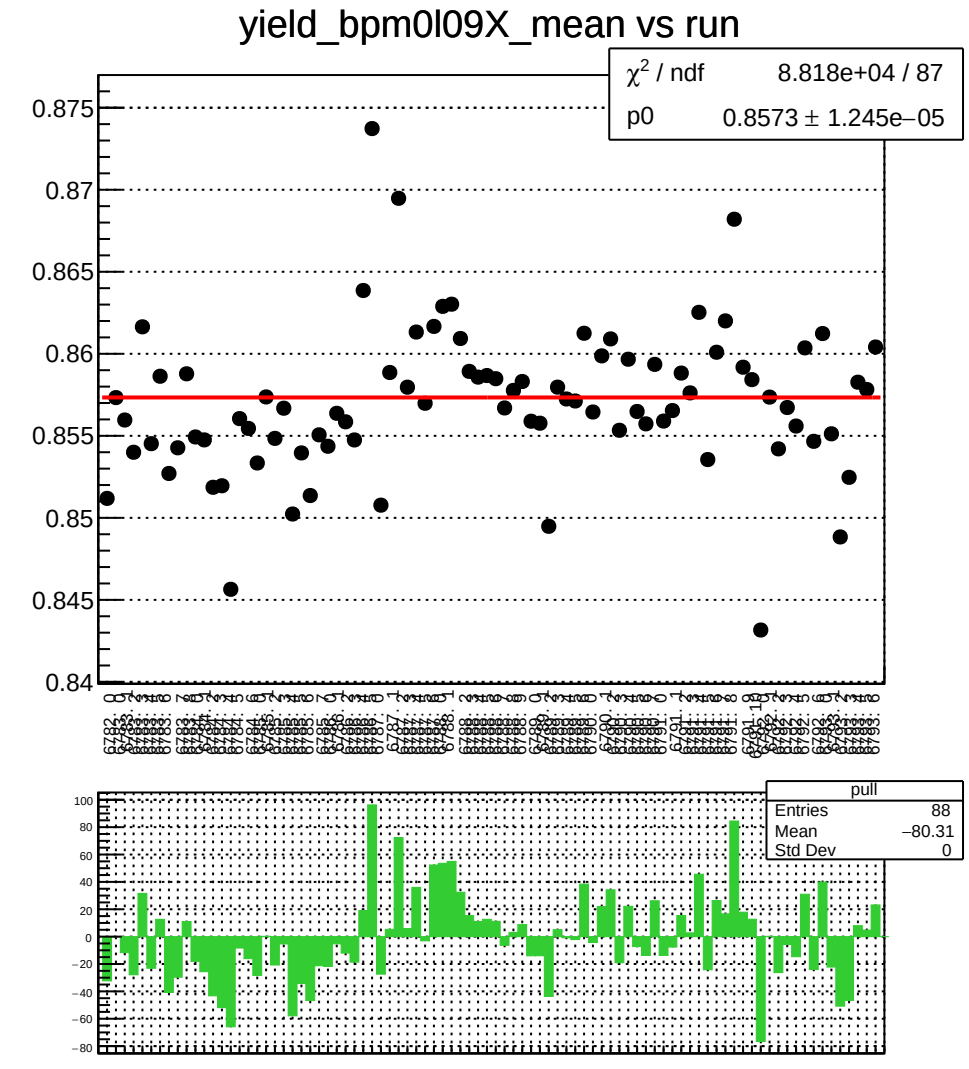

pull1D
Entries 88
Mean −0.0008408
Std Dev 3.491
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

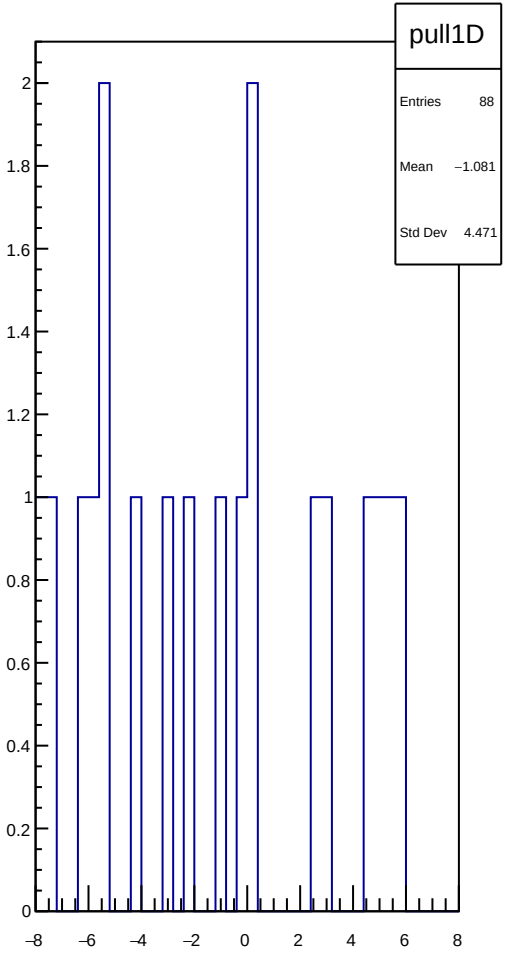

yield_bpm0l08X_rms vs run
χ² / ndf 7.759e+04 / 87
p0 0.01138 ± 9.059e–06
0.035
0.03
0.025
0.02
0.015
0.01

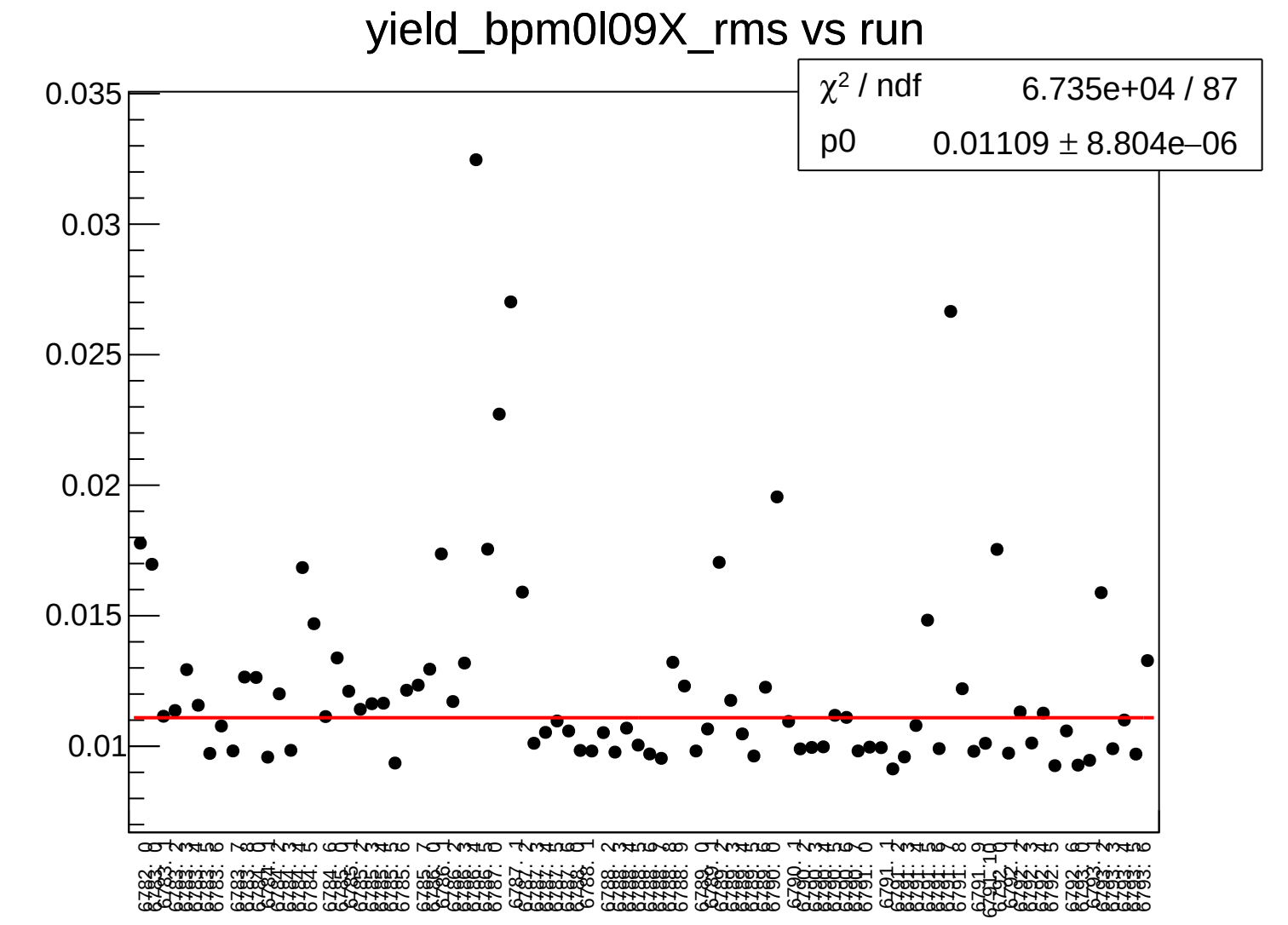

yield_bpm0l08Y_mean vs run
χ² / ndf 3.843e+06 / 87
p0 −0.07671 ± 3.52e−06
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
pull
Entries 88
Mean −1109
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

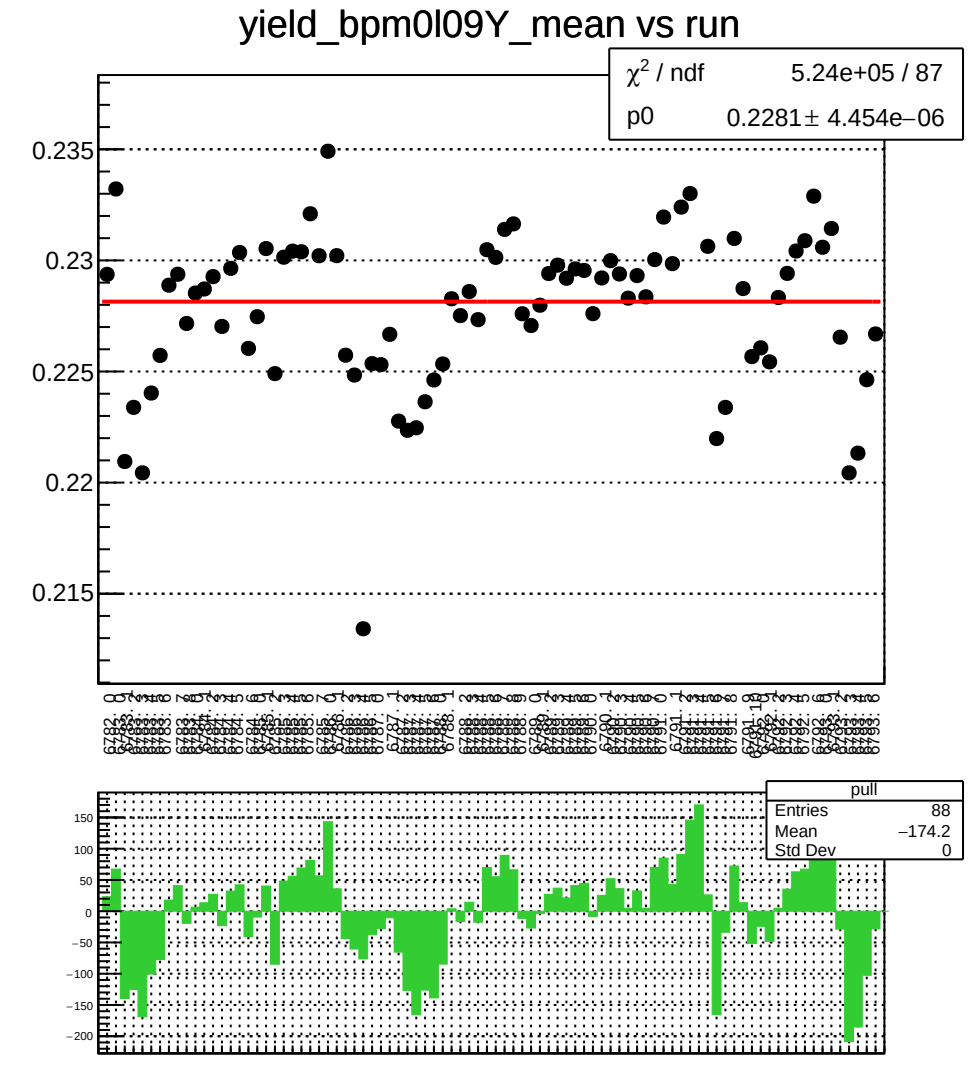

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

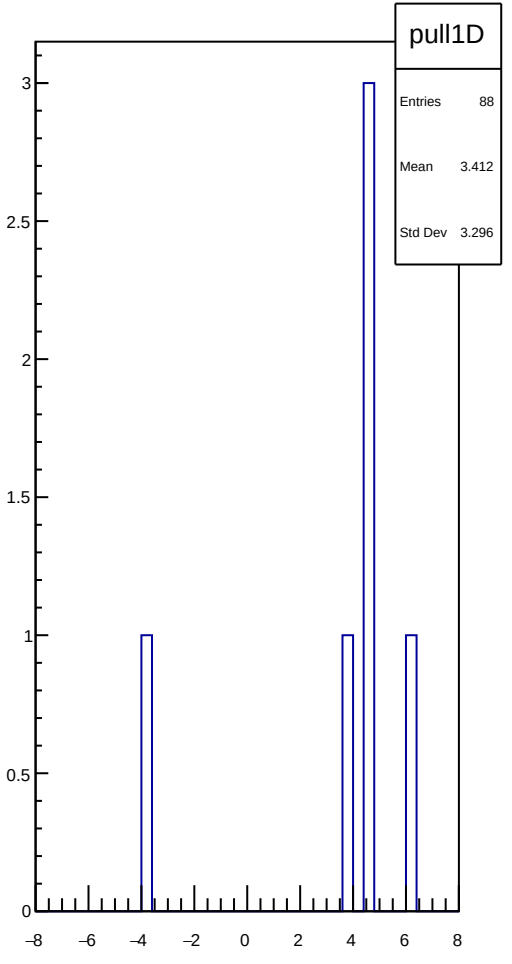

yield_bpm0l08Y_rms vs run
χ² / ndf 5.853e+04 / 87
p0 0.003145 ± 2.489e−06
0.012
0.01
0.008
0.006
0.004
0.002

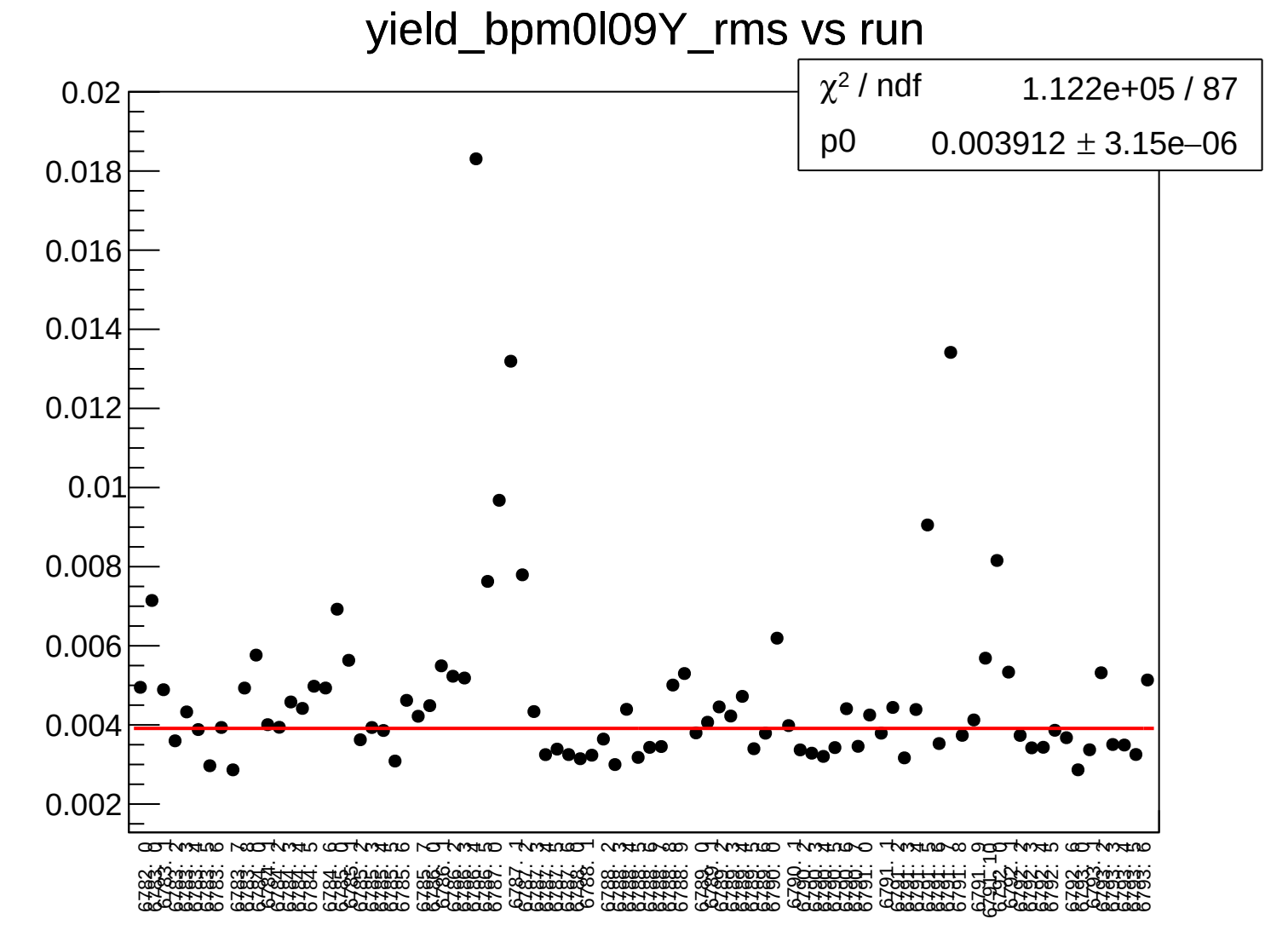

yield_bpm0l09X_mean vs run
χ² / ndf 8.818e+04 / 87
p0 0.8573 ± 1.245e−05
0.875
0.87
0.865
0.86
0.855
0.85
0.845
0.84
pull
Entries 88
Mean −80.31
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

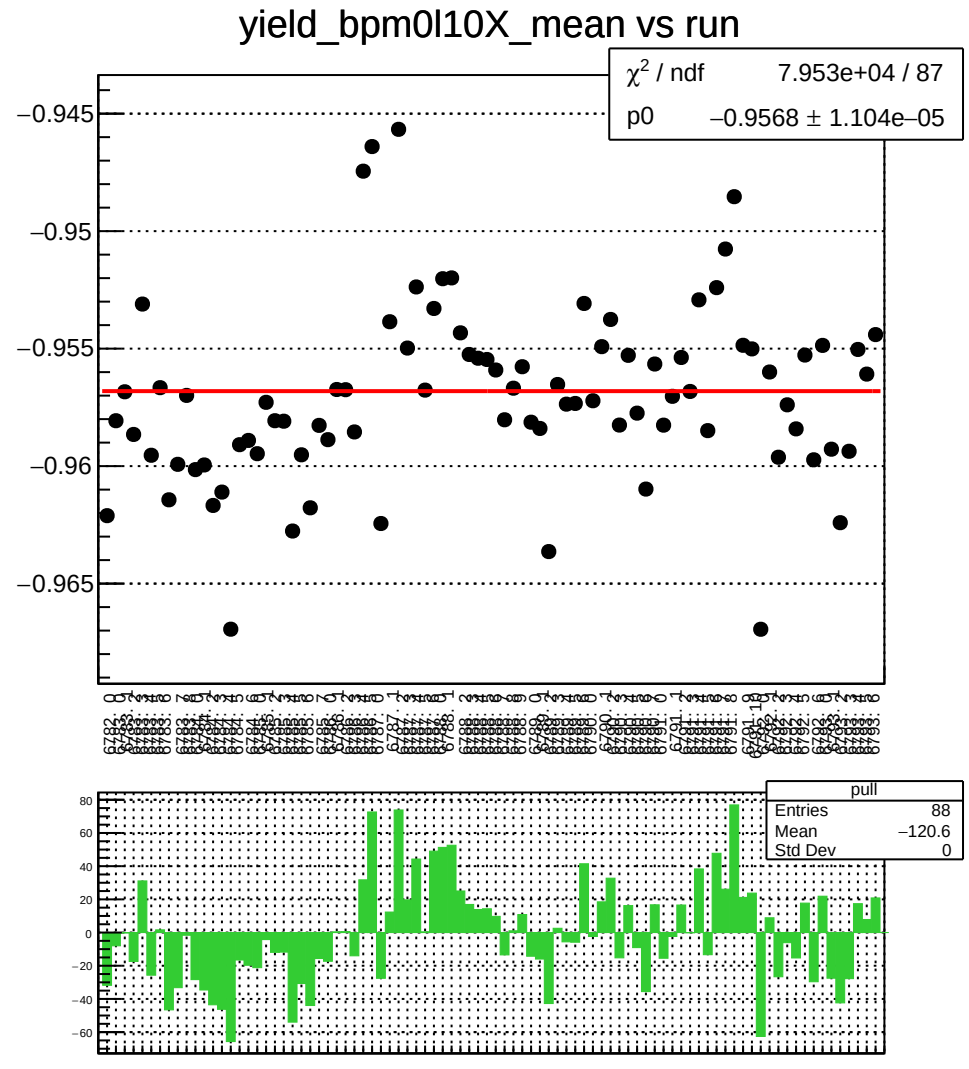

pull1D
Entries 88
Mean −1.081
Std Dev 4.471
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

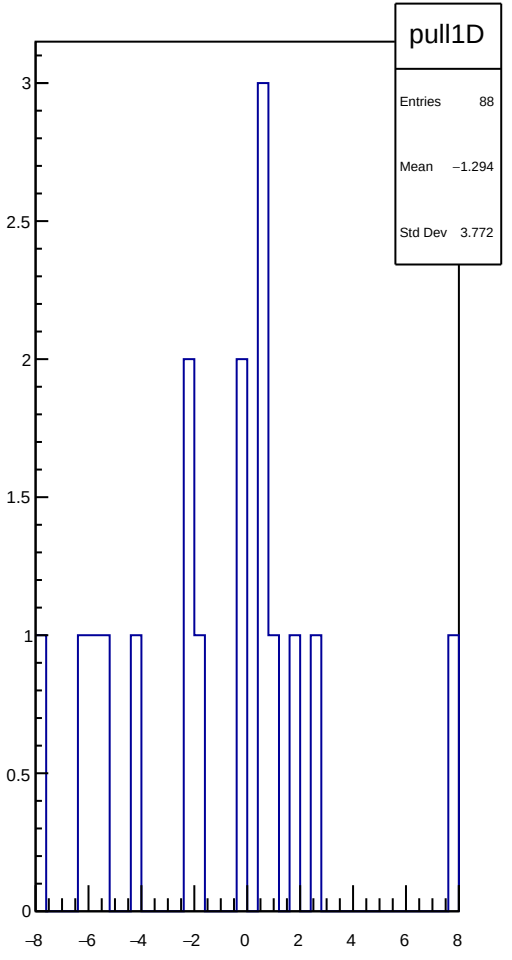

yield_bpm0l09X_rms vs run
χ² / ndf 6.735e+04 / 87
p0 0.01109 ± 8.804e−06
0.035
0.03
0.025
0.02
0.015
0.01

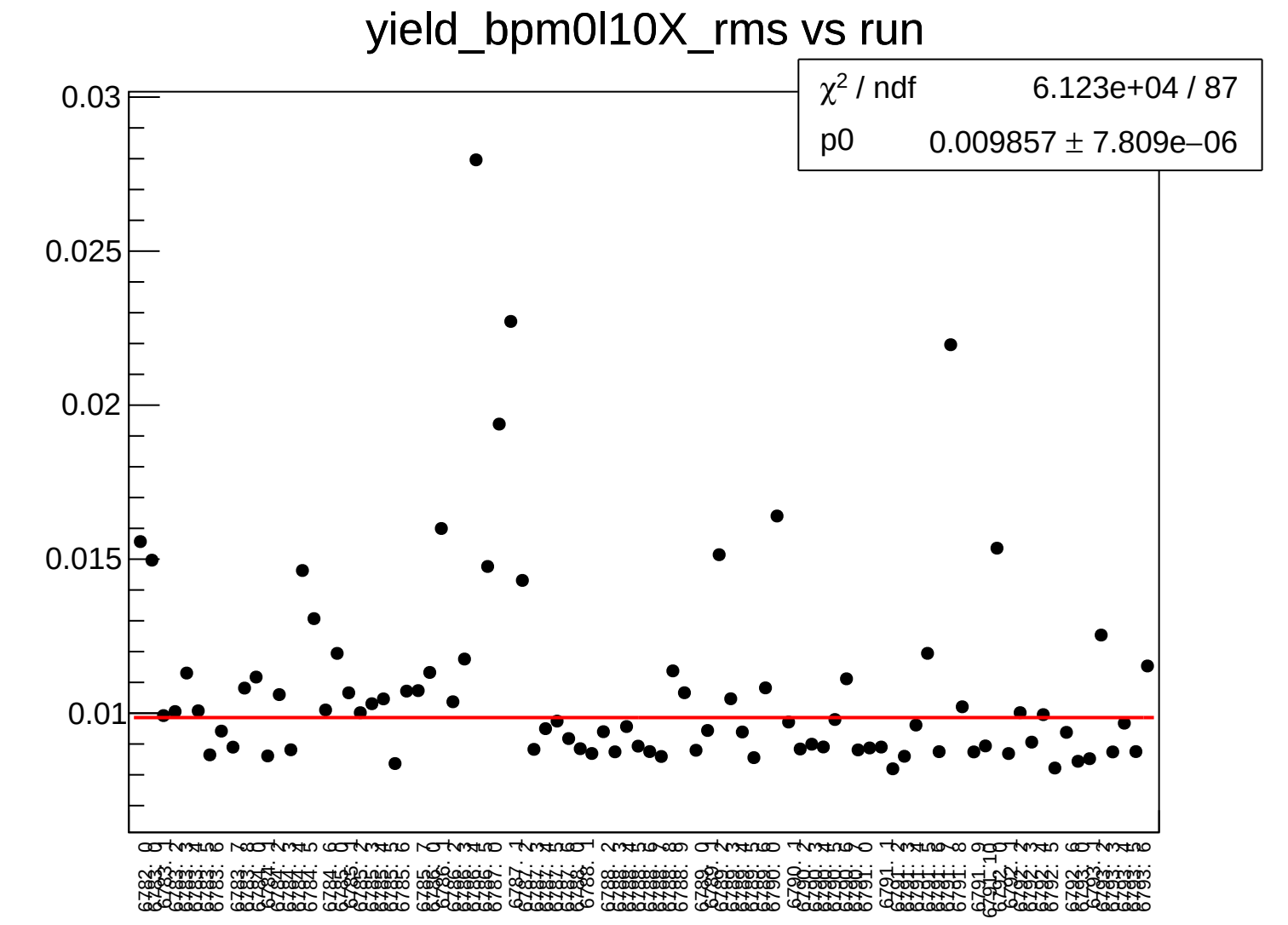

yield_bpm0l09Y_mean vs run
χ² / ndf 5.24e+05 / 87
p0 0.2281 ± 4.454e−06
0.235
0.23
0.225
0.22
0.215
pull
Entries 88
Mean −174.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200

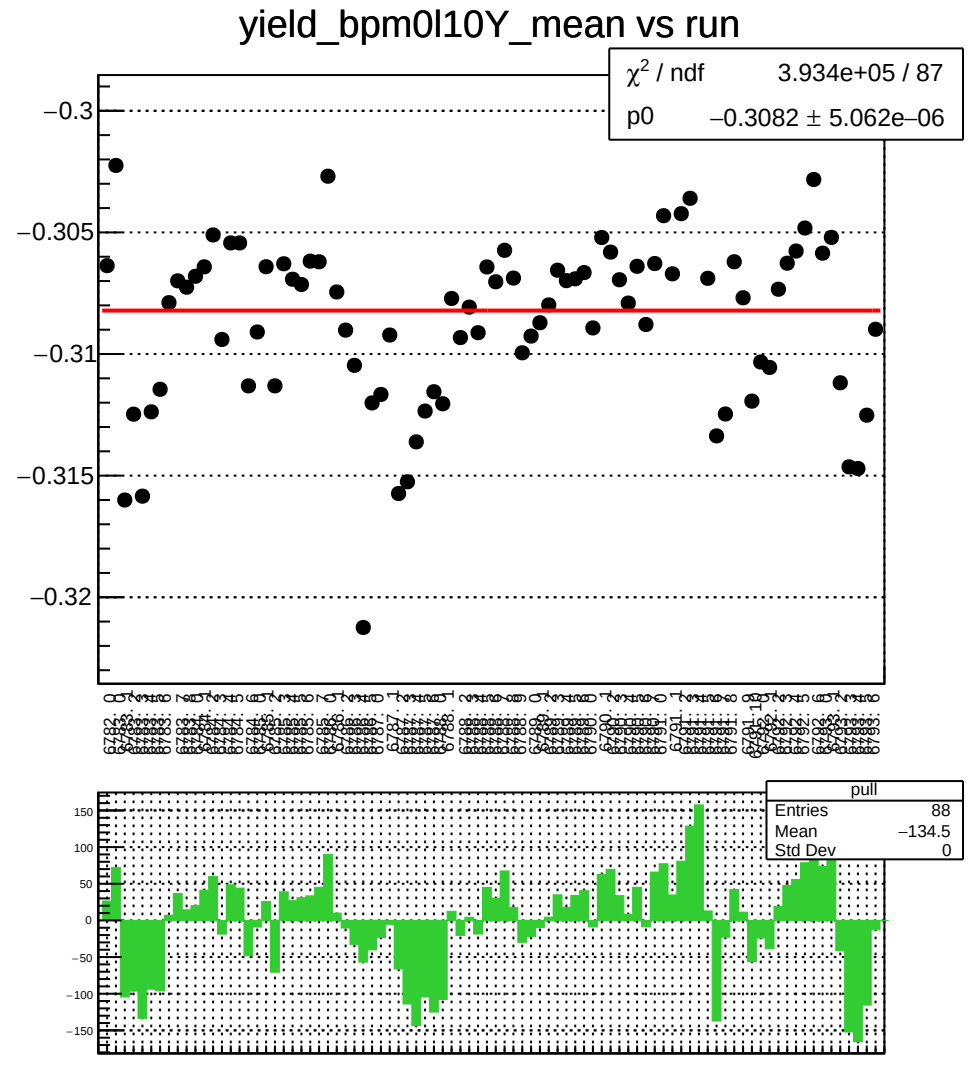

pull1D
Entries 88
Mean 3.412
Std Dev 3.296
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

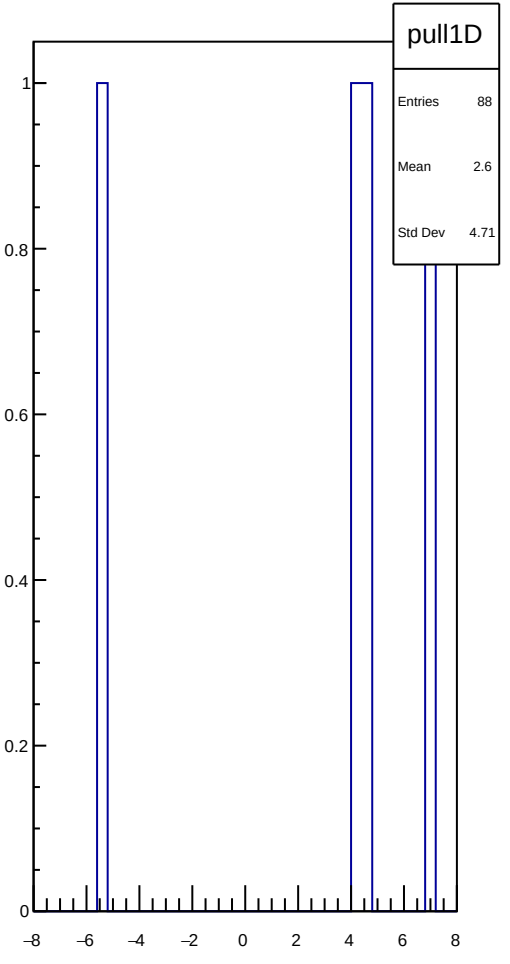

yield_bpm0l09Y_rms vs run
χ² / ndf 1.122e+05 / 87
p0 0.003912 ± 3.15e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

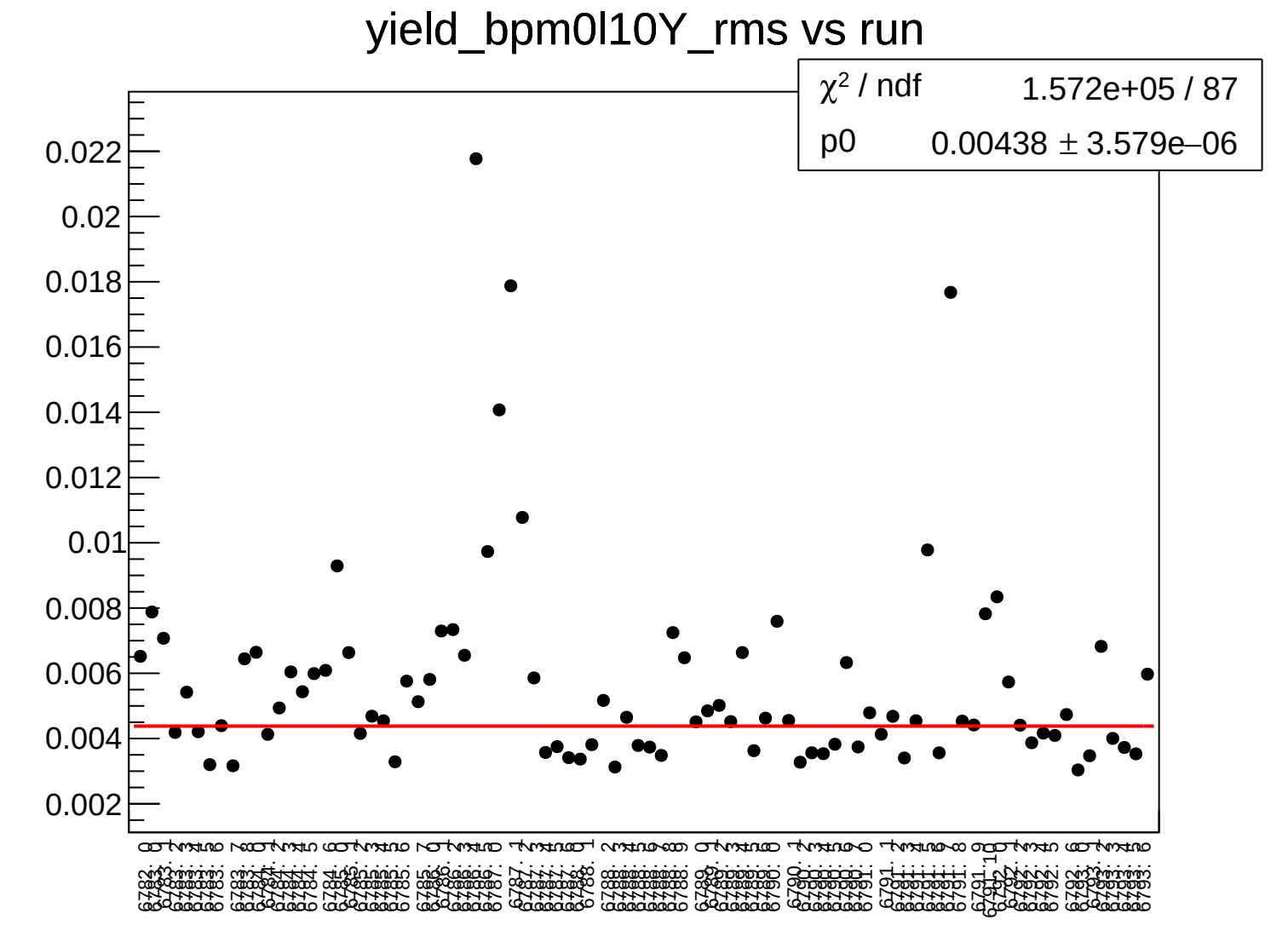

yield_bpm0l10X_mean vs run
χ² / ndf 7.953e+04 / 87
p0 −0.9568 ± 1.104e−05
−0.945
−0.95
−0.955
−0.96
−0.965
pull
Entries 88
Mean −120.6
Std Dev 0
80
60
40
20
0
−20
−40
−60

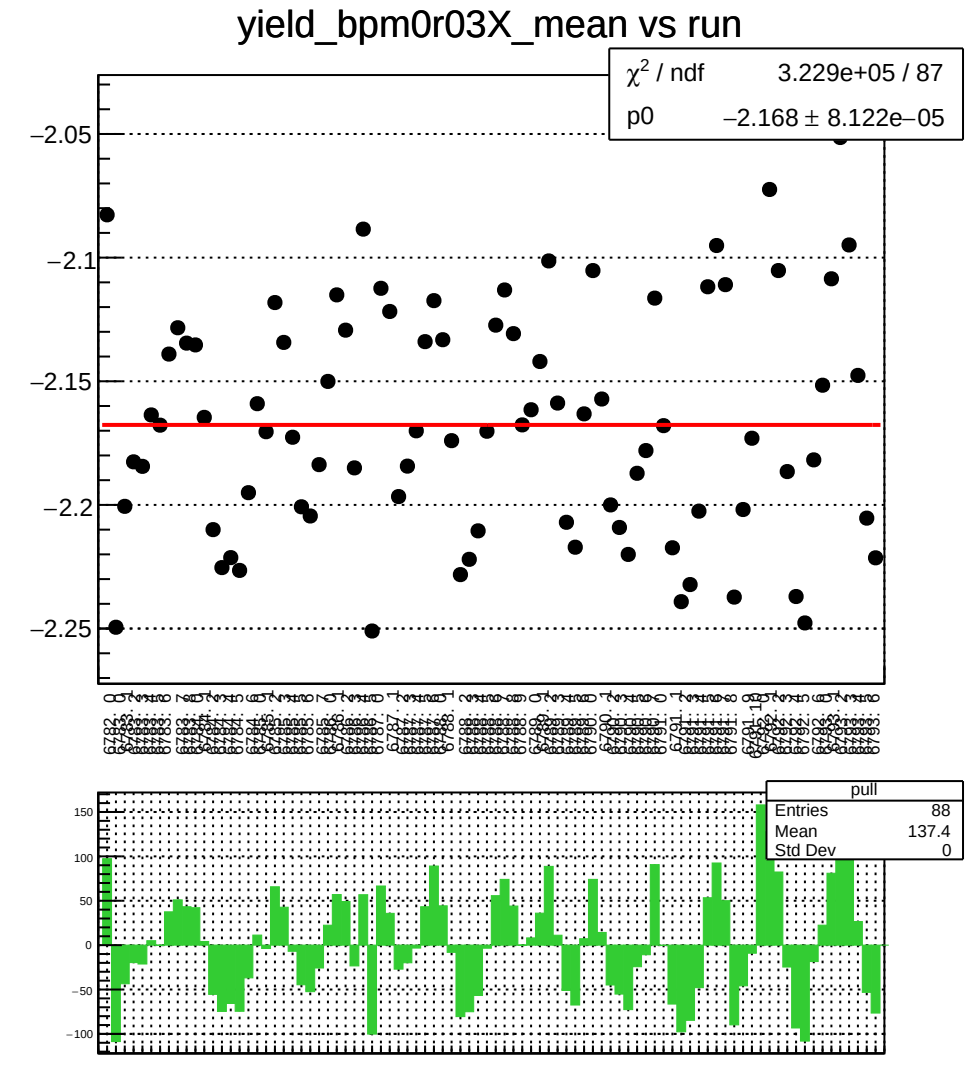

pull1D
Entries 88
Mean −1.294
Std Dev 3.772
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

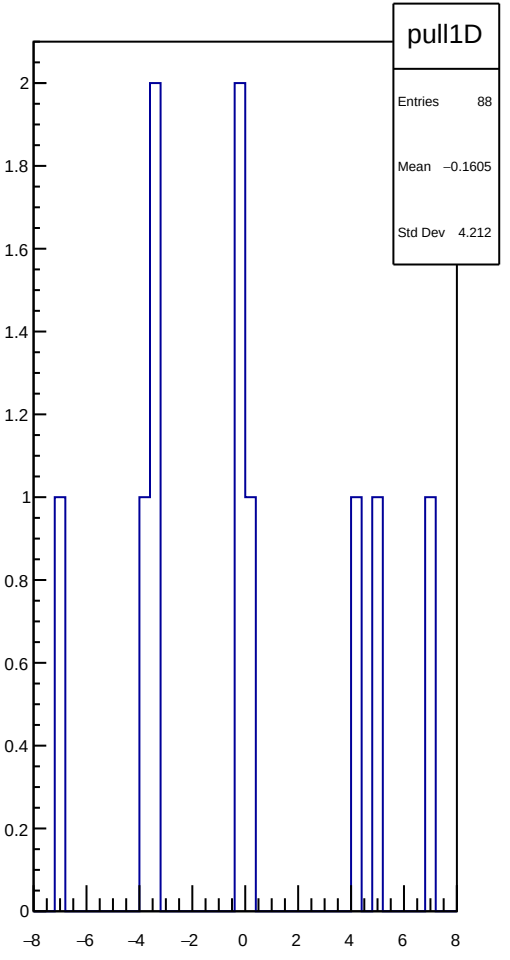

yield_bpm0l10X_rms vs run
χ² / ndf 6.123e+04 / 87
p0 0.009857 ± 7.809e−06
0.03
0.025
0.02
0.015
0.01

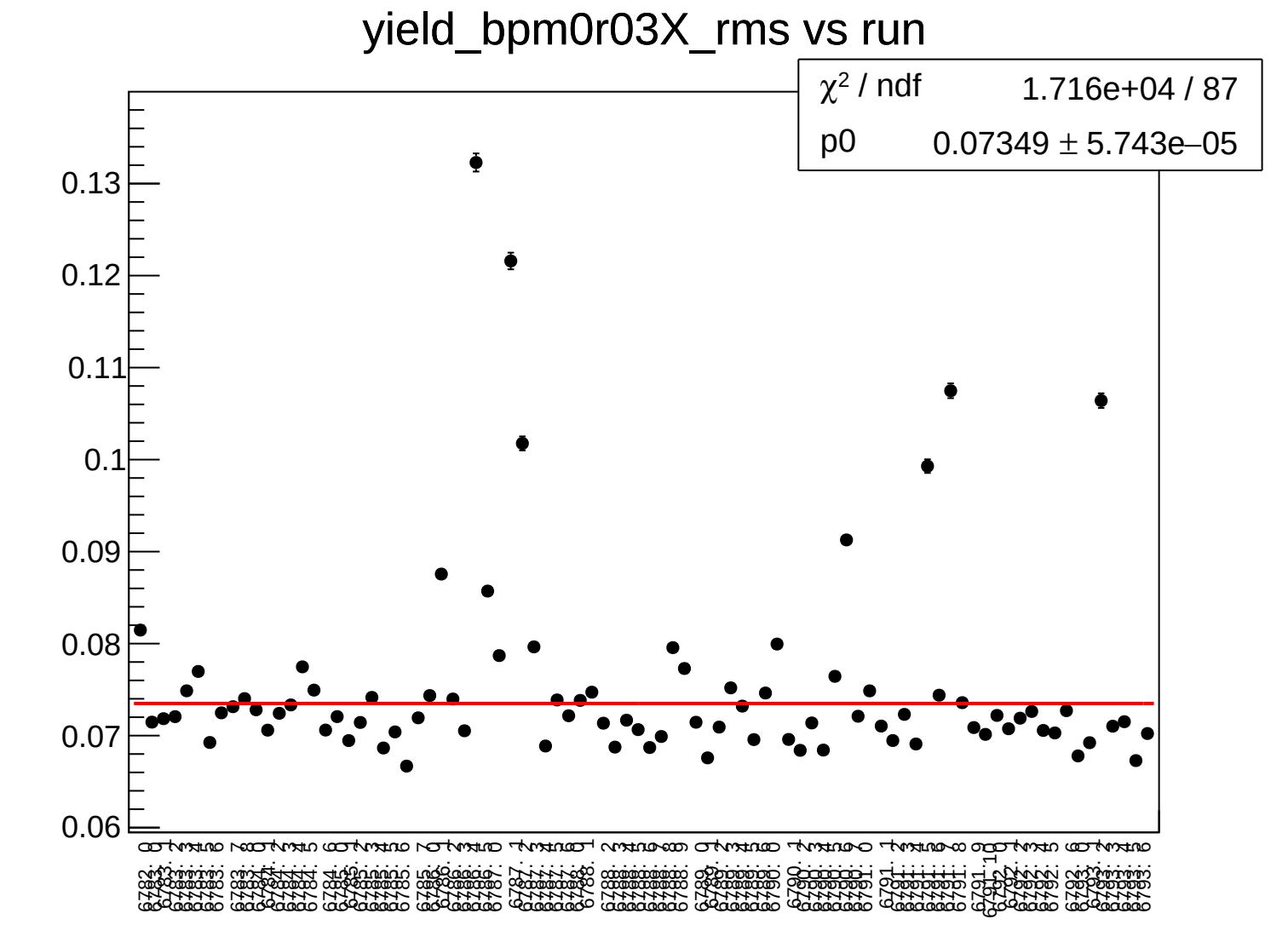

yield_bpm0l10Y_mean vs run
χ² / ndf 3.934e+05 / 87
p0 −0.3082 ± 5.062e−06
−0.3
−0.305
−0.31
−0.315
−0.32
pull
Entries 88
Mean −134.5
Std Dev 0
150
100
50
0
−50
−100
−150

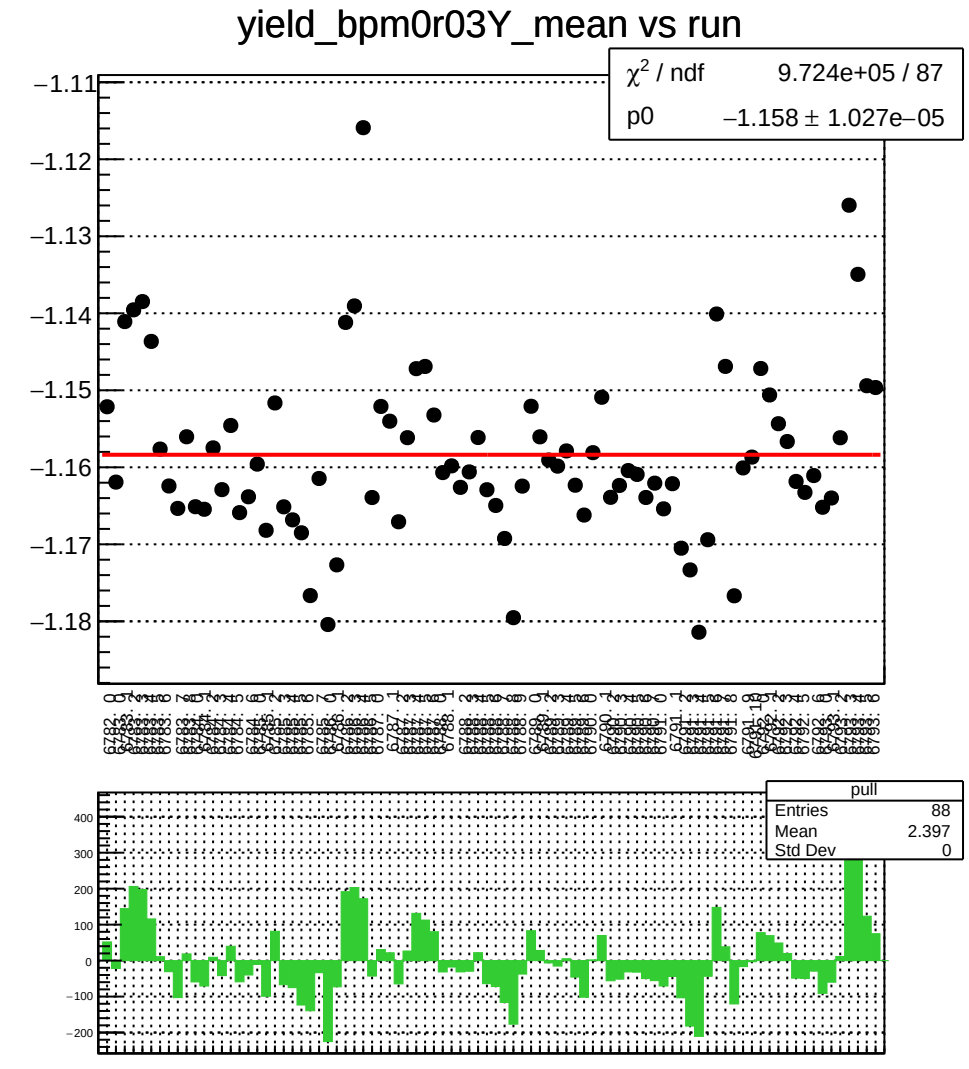

pull1D
Entries 88
Mean 2.6
Std Dev 4.71
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

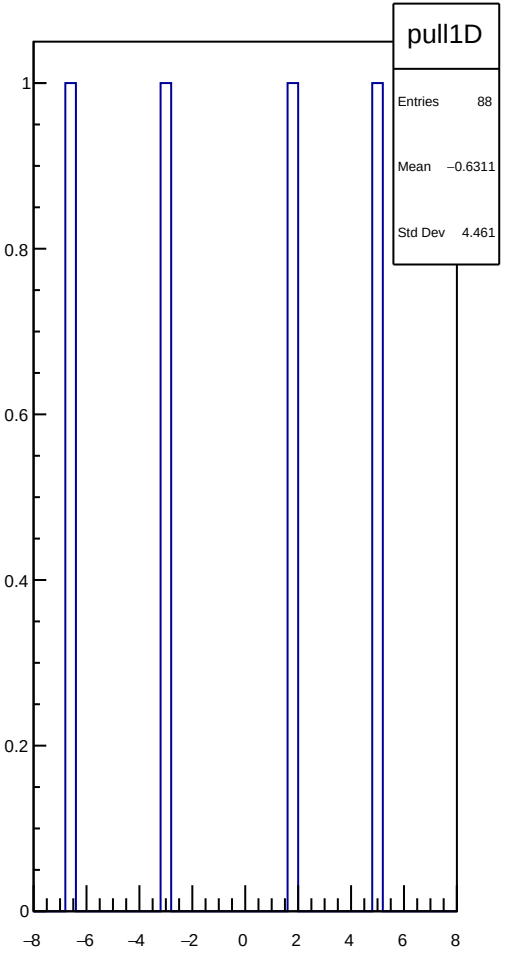

yield_bpm0l10Y_rms vs run
χ² / ndf 1.572e+05 / 87
p0 0.00438 ± 3.579e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

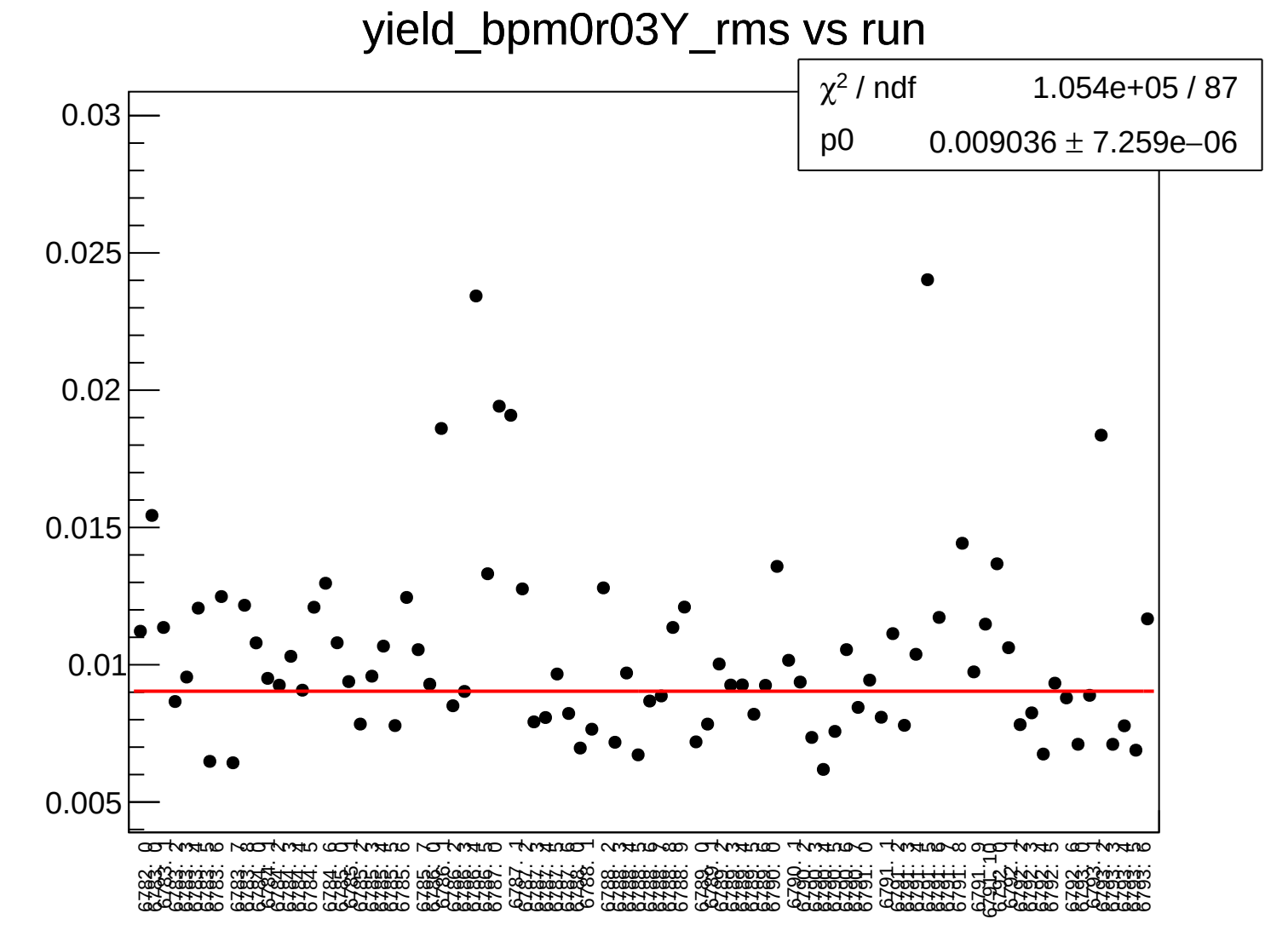

yield_bpm0r03X_mean vs run
χ² / ndf 3.229e+05 / 87
p0 −2.168 ± 8.122e−05
−2.05
−2.1
−2.15
−2.2
−2.25
pull
Entries 88
Mean 137.4
Std Dev 0
150
100
50
0
−50
−100

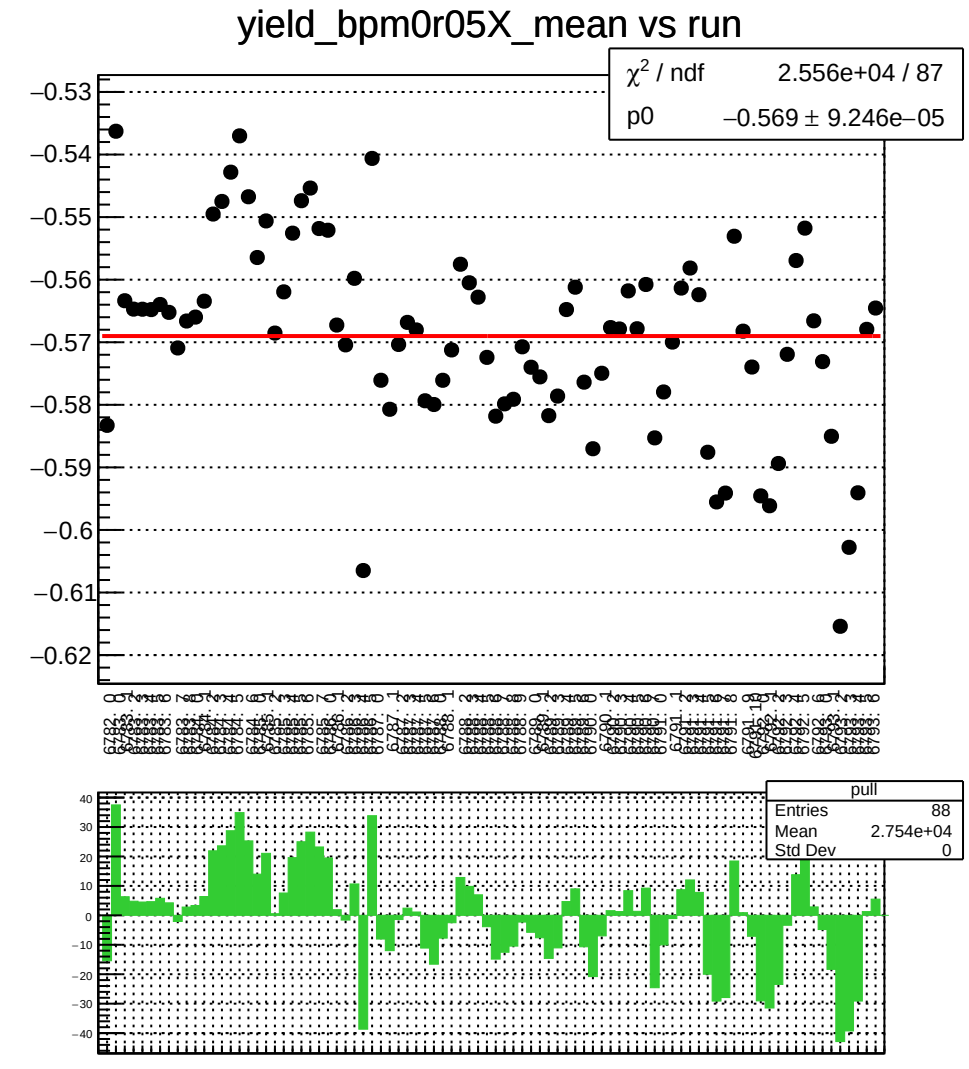

pull1D
Entries 88
Mean −0.1605
Std Dev 4.212
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

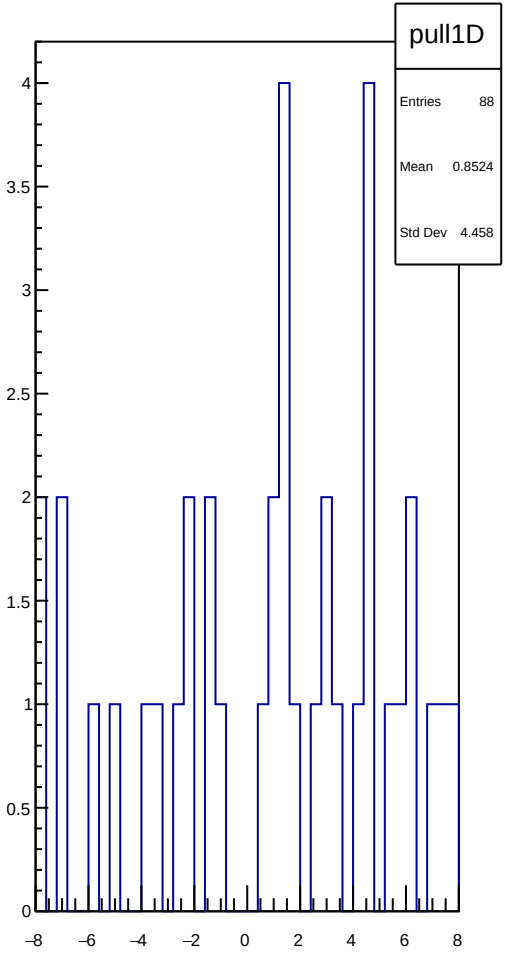

yield_bpm0r03X_rms vs run
χ² / ndf 1.716e+04 / 87
p0 0.07349 ± 5.743e−05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

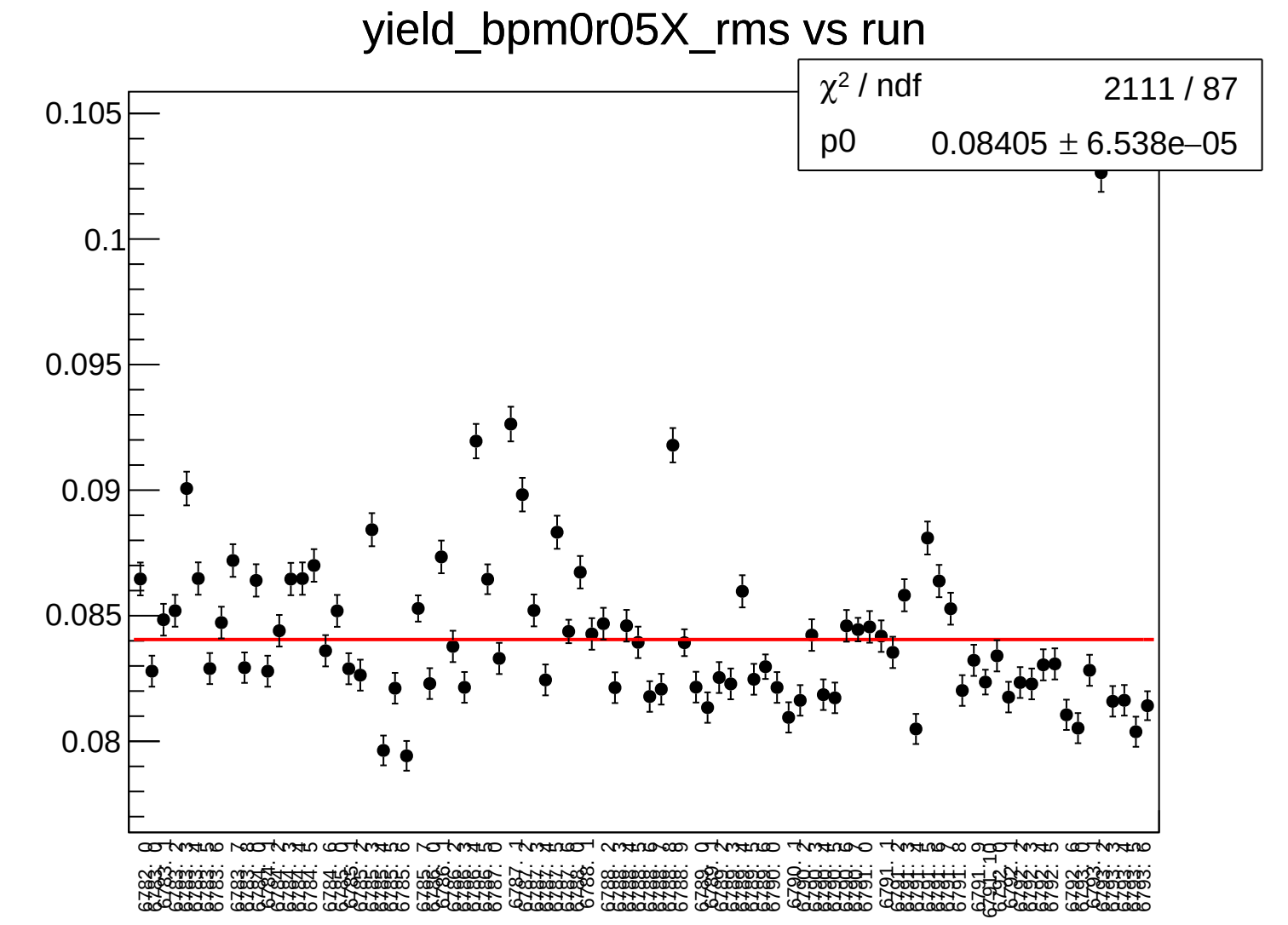

yield_bpm0r03Y_mean vs run
χ² / ndf 9.724e+05 / 87
p0 −1.158 ± 1.027e−05
−1.11
−1.12
−1.13
−1.14
−1.15
−1.16
−1.17
−1.18
pull
Entries 88
Mean 2.397
Std Dev 0
400
300
200
100
0
−100
−200

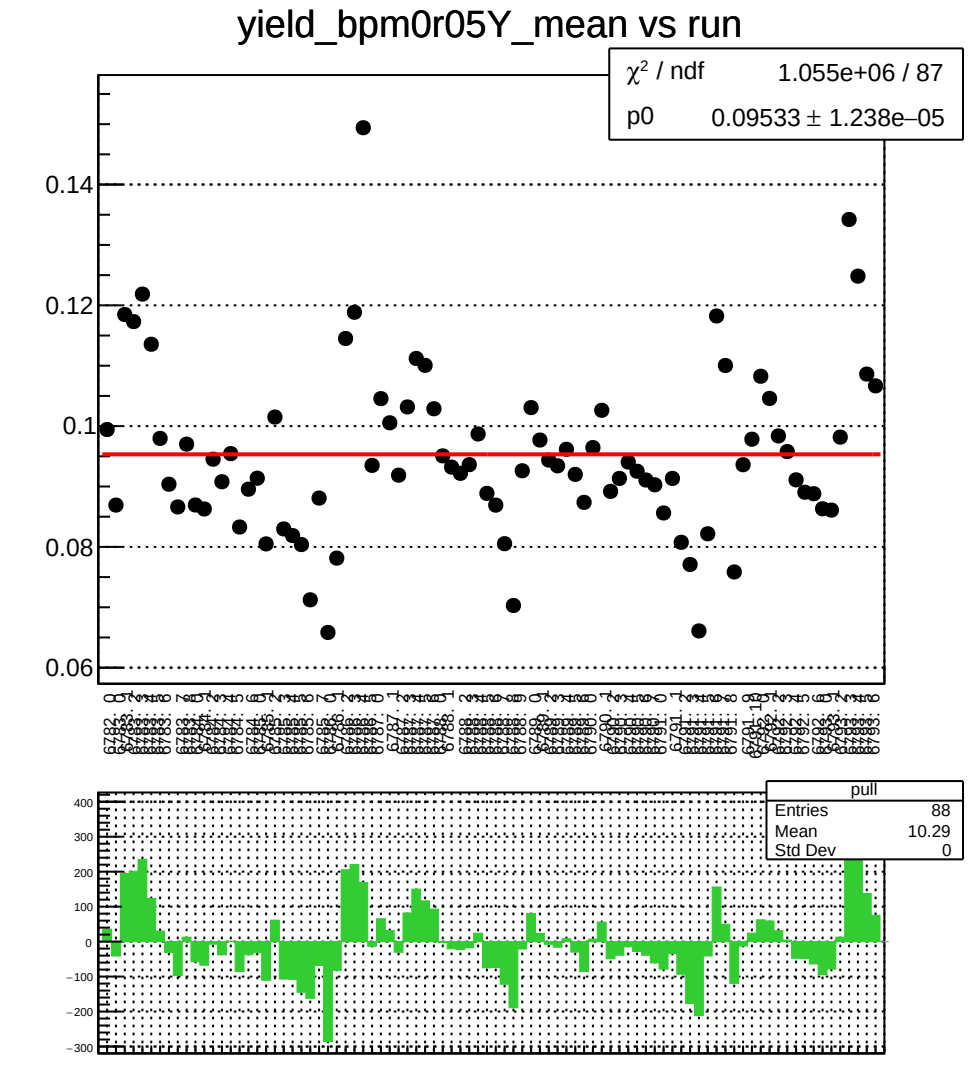

pull1D
Entries 88
Mean −0.6311
Std Dev 4.461
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

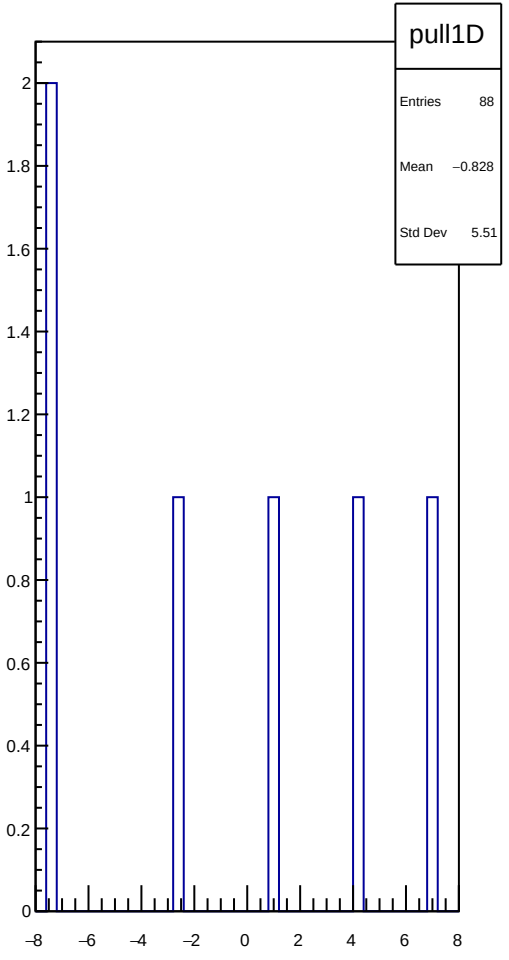

yield_bpm0r03Y_rms vs run
χ² / ndf 1.054e+05 / 87
p0 0.009036 ± 7.259e−06
0.03
0.025
0.02
0.015
0.01
0.005

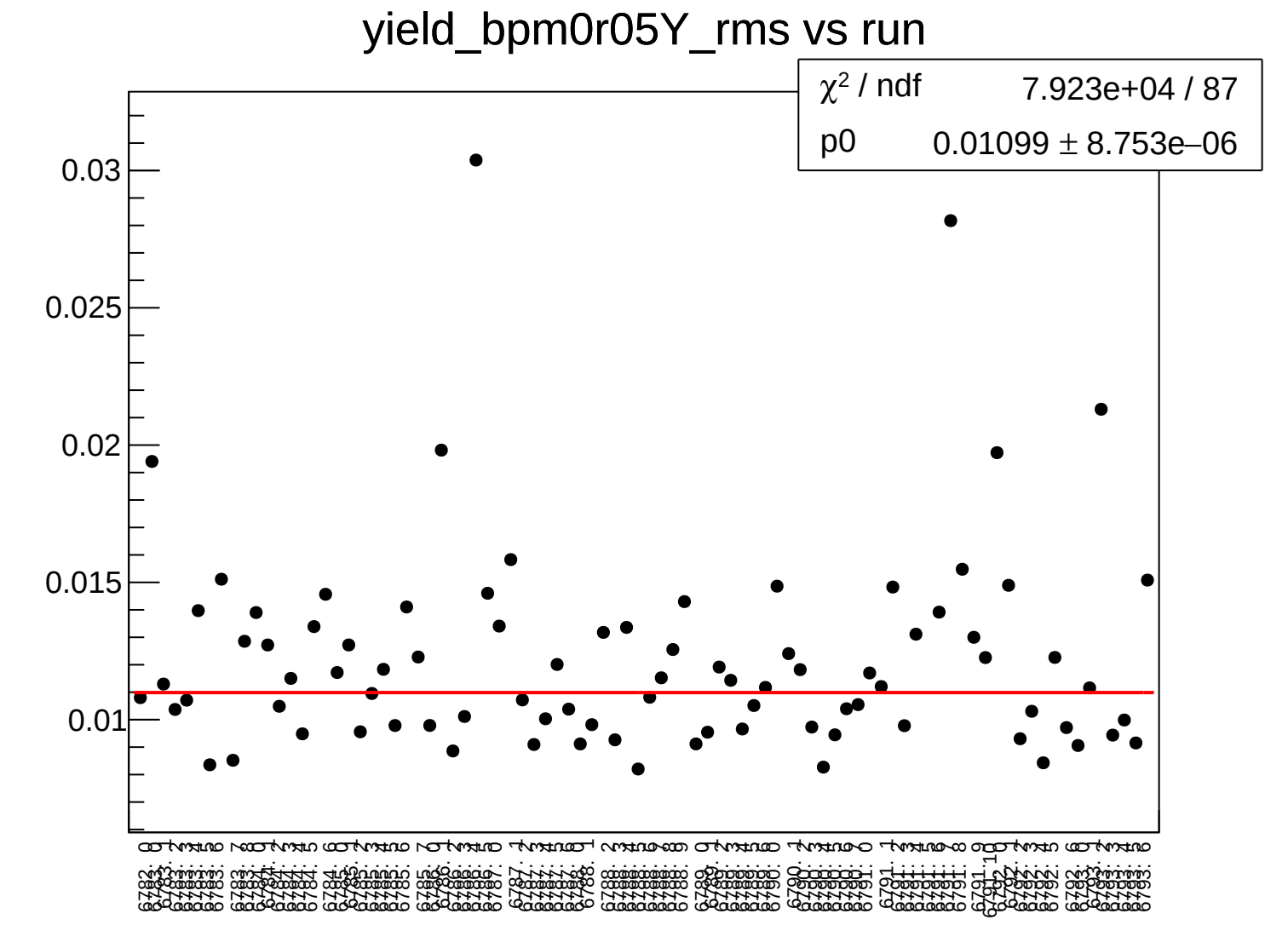

yield_bpm0r05X_mean vs run
χ² / ndf 2.556e+04 / 87
p0 −0.569 ± 9.246e−05
−0.53
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
pull
Entries 88
Mean 2.754e+04
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

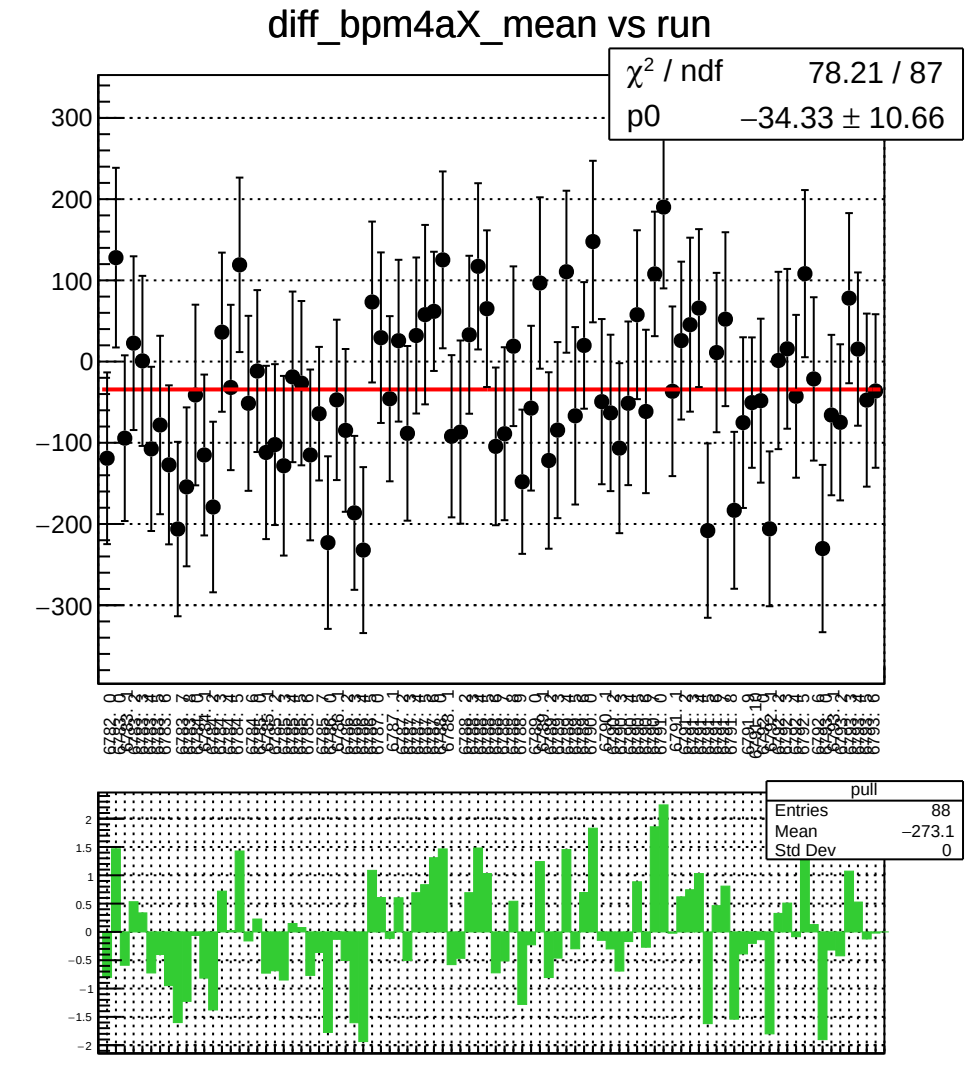

pull1D
Entries 88
Mean 0.8524
Std Dev 4.458
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

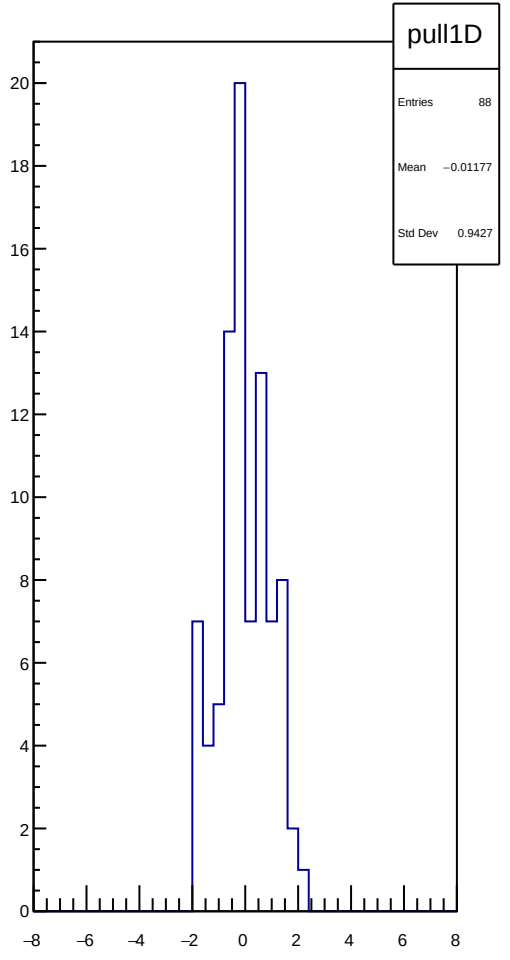

yield_bpm0r05X_rms vs run
χ² / ndf 2111 / 87
p0 0.08405 ± 6.538e−05
0.105
0.1
0.095
0.09
0.085
0.08

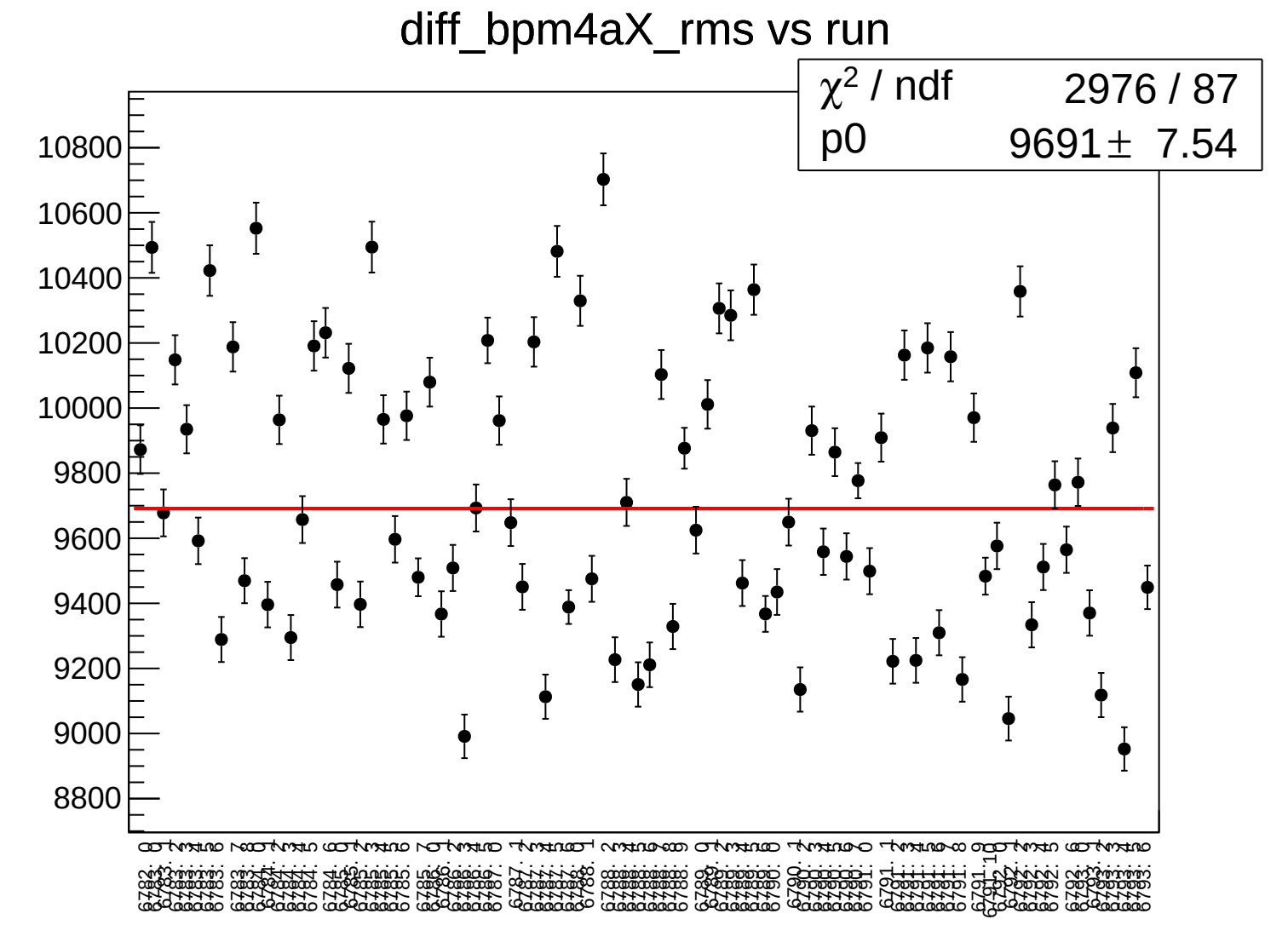

yield_bpm0r05Y_mean vs run
χ² / ndf 1.055e+06 / 87
p0 0.09533 ± 1.238e−05
0.14
0.12
0.1
0.08
0.06
pull
Entries 88
Mean 10.29
Std Dev 0
400
300
200
100
0
−100
−200
−300

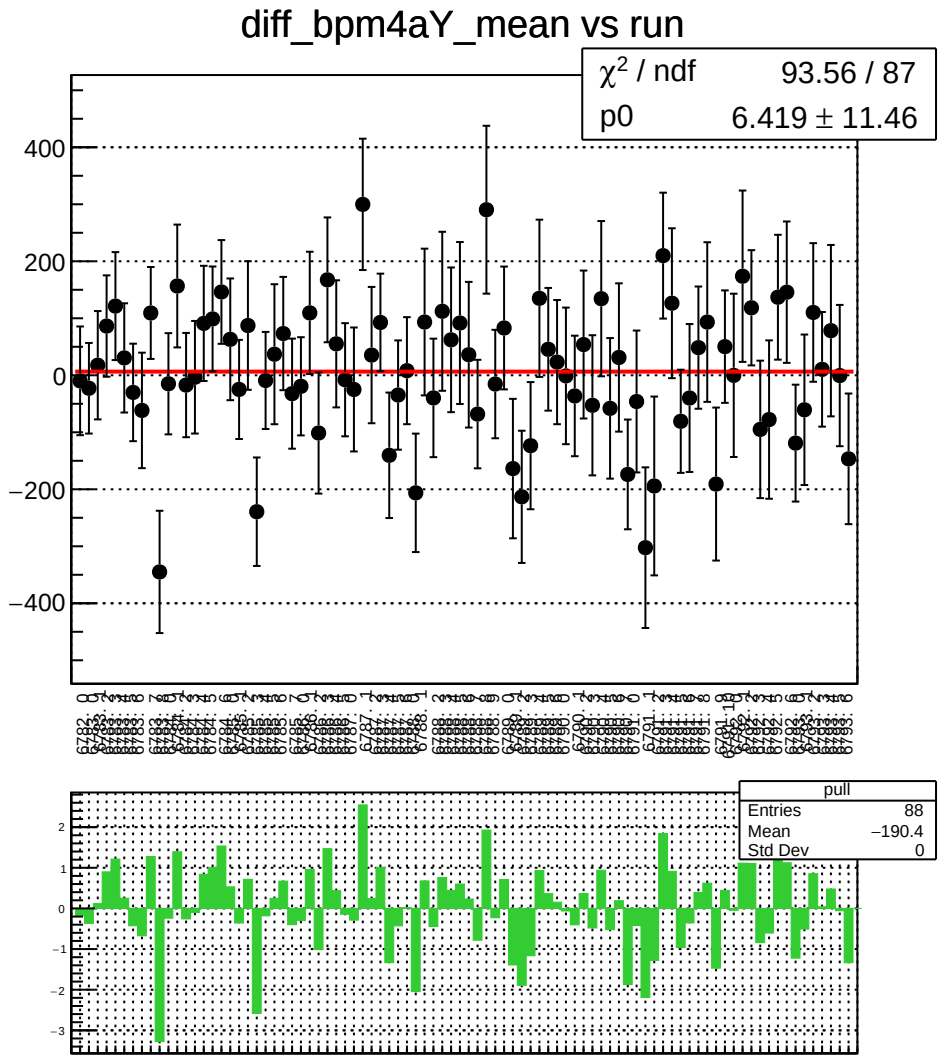

pull1D
Entries 88
Mean −0.828
Std Dev 5.51
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

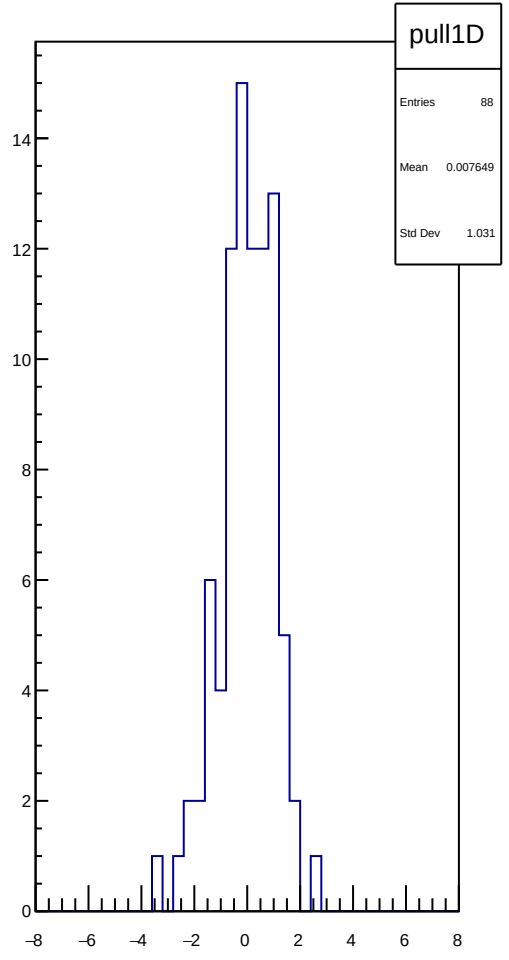

yield_bpm0r05Y_rms vs run
χ² / ndf 7.923e+04 / 87
p0 0.01099 ± 8.753e–06
0.03
0.025
0.02
0.015
0.01

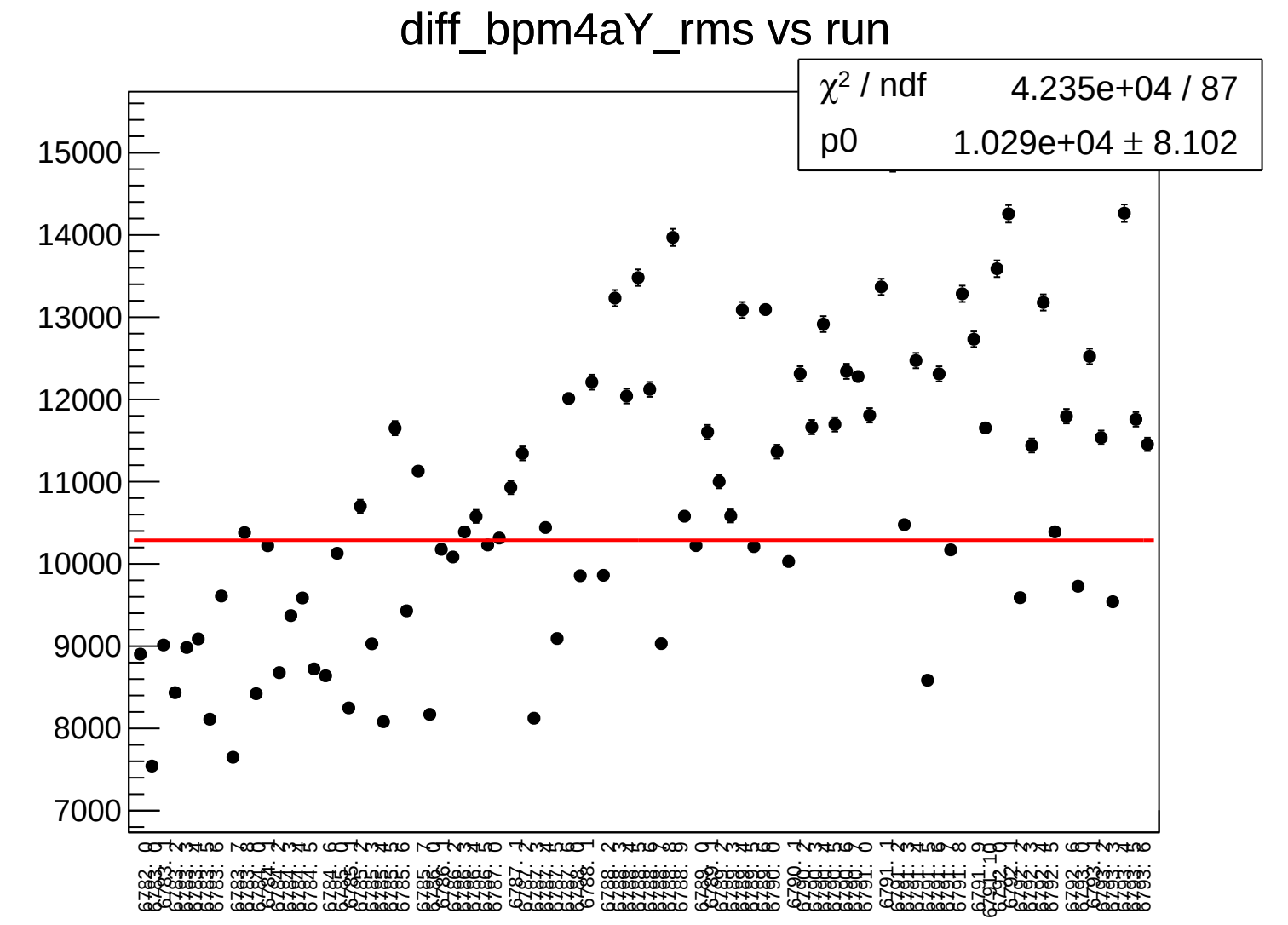

diff_bpm4aX_mean vs run
χ² / ndf 78.21 / 87
p0 −34.33 ± 10.66
pull
Entries 88
Mean −273.1
Std Dev 0

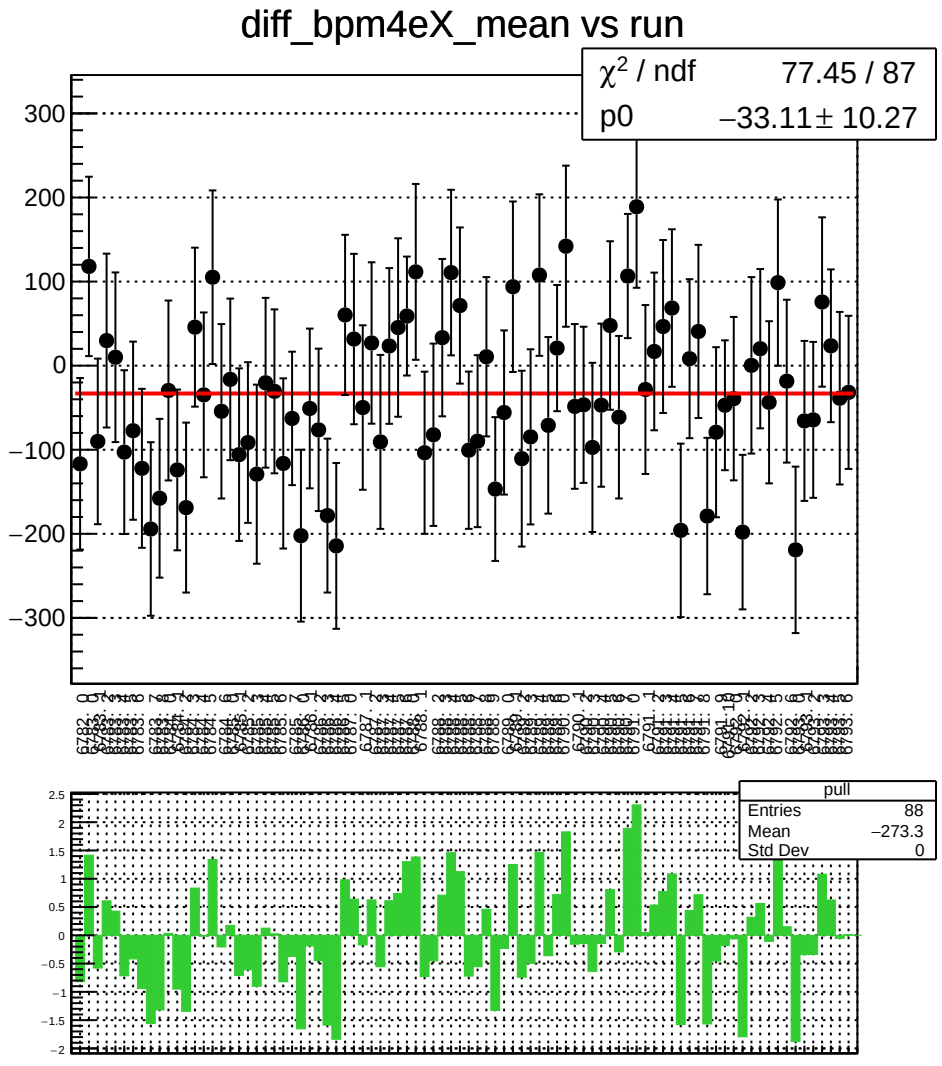

pull1D
Entries 88
Mean −0.01177
Std Dev 0.9427

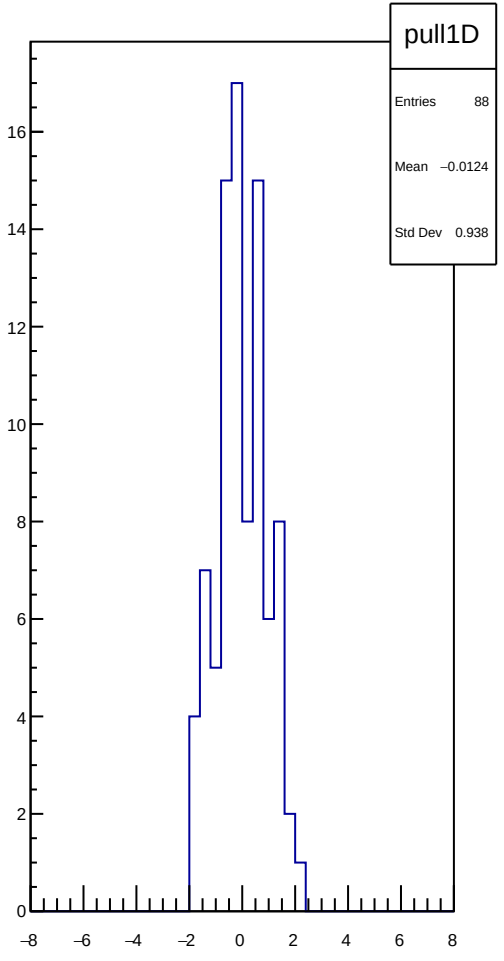

diff_bpm4aX_rms vs run
χ² / ndf 2976 / 87
p0 9691 ± 7.54
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800

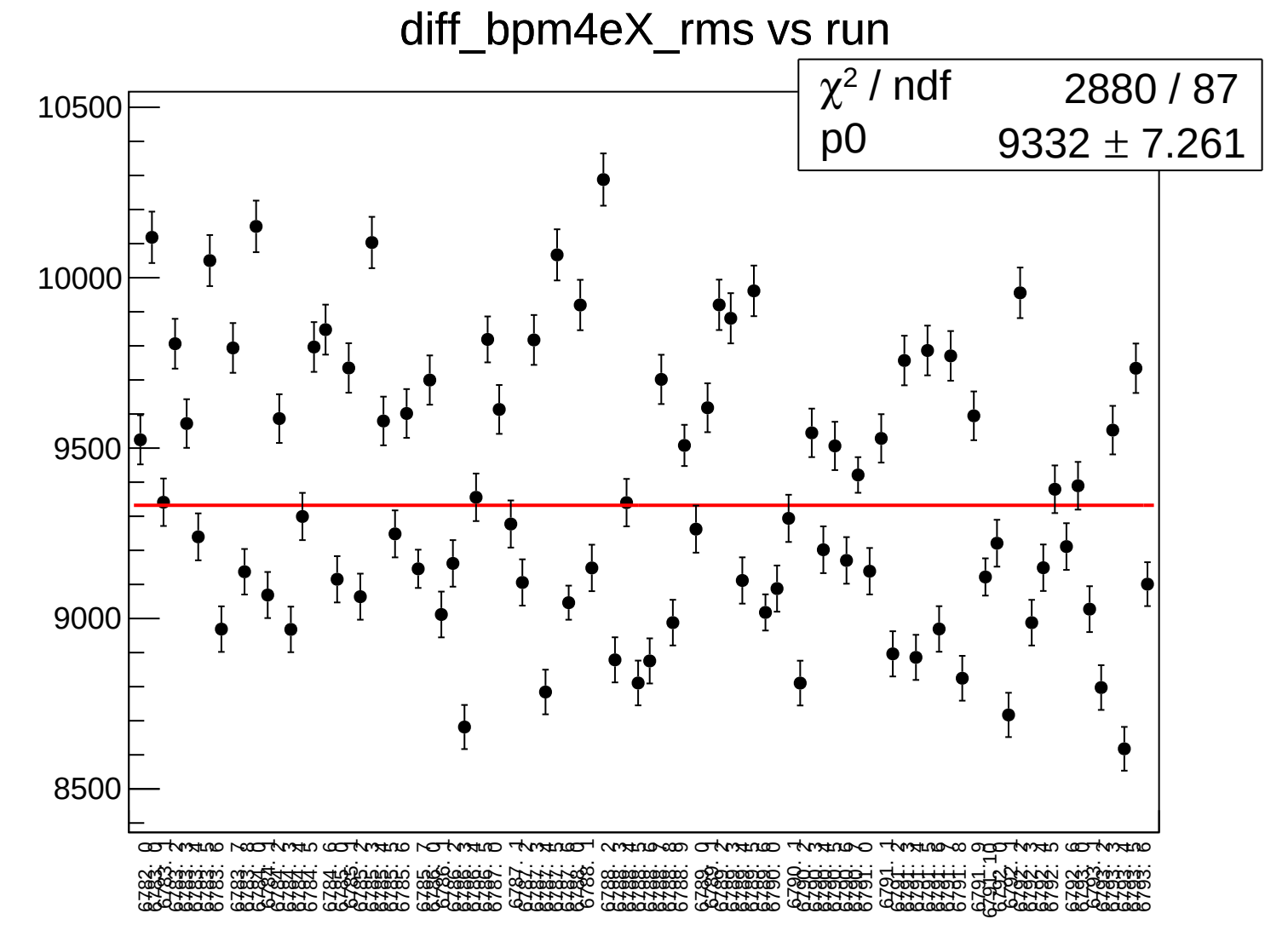

diff_bpm4aY_mean vs run
χ² / ndf 93.56 / 87
p0 6.419 ± 11.46
400
200
0
−200
−400
pull
Entries 88
Mean −190.4
Std Dev 0
2
1
0
−1
−2
−3

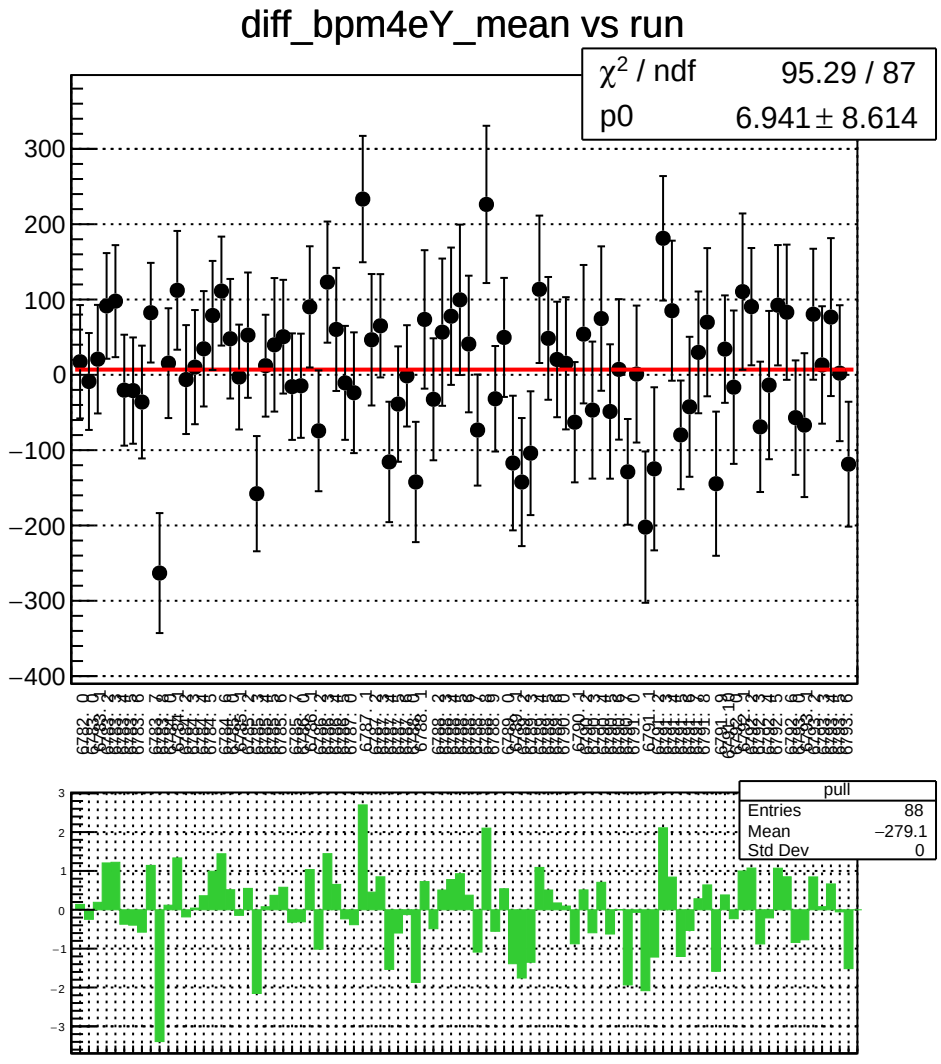

pull1D
Entries 88
Mean 0.007649
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

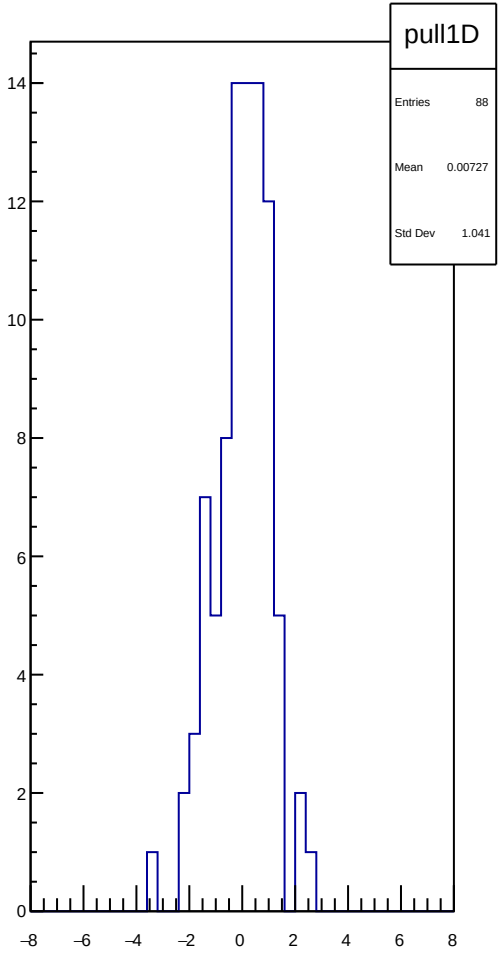

diff_bpm4aY_rms vs run
χ² / ndf 4.235e+04 / 87
p0 1.029e+04 ± 8.102
15000
14000
13000
12000
11000
10000
9000
8000
7000

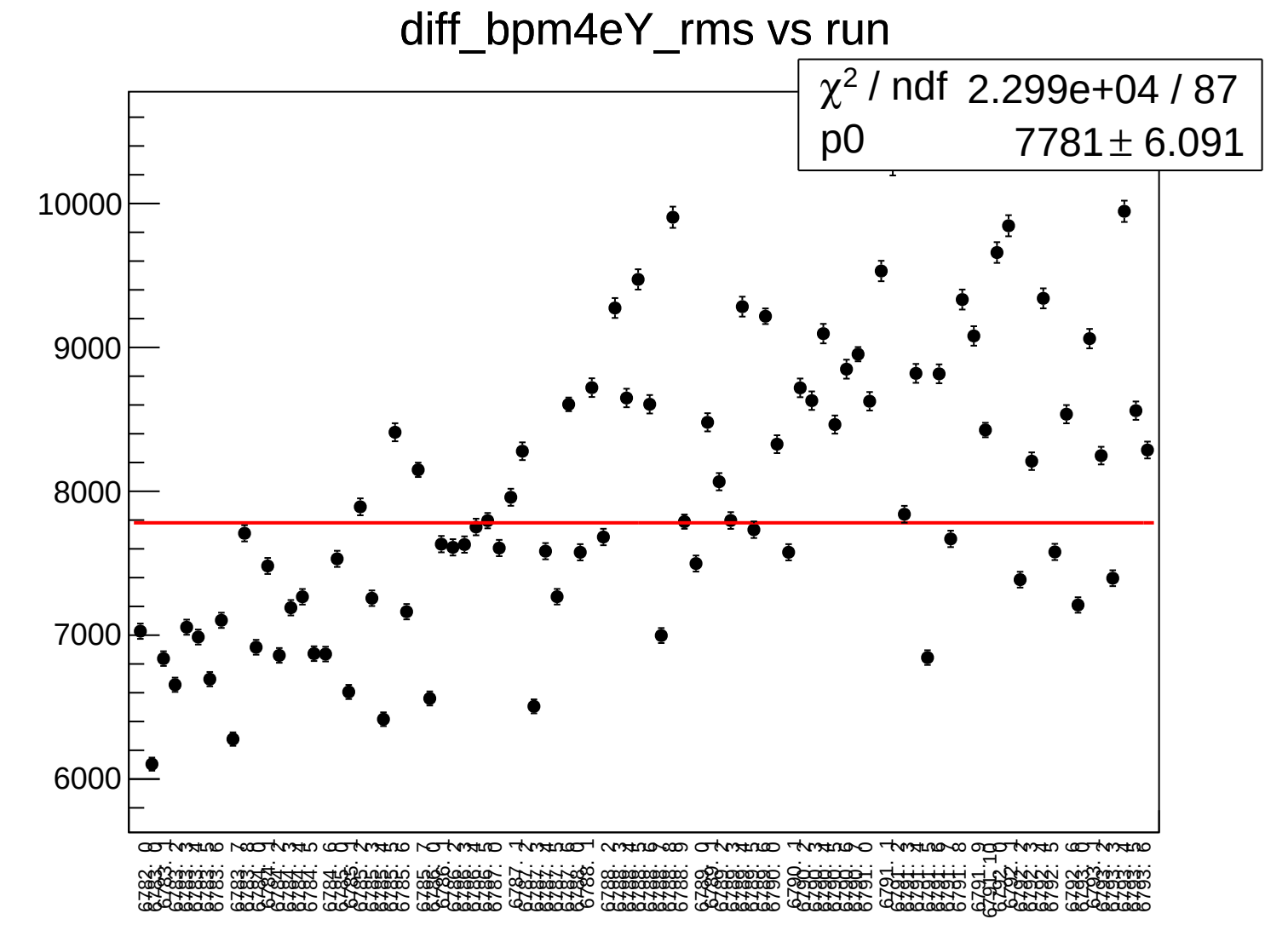

diff_bpm4eX_mean vs run
χ² / ndf 77.45 / 87
p0 −33.11 ± 10.27
pull
Entries 88
Mean −273.3
Std Dev 0

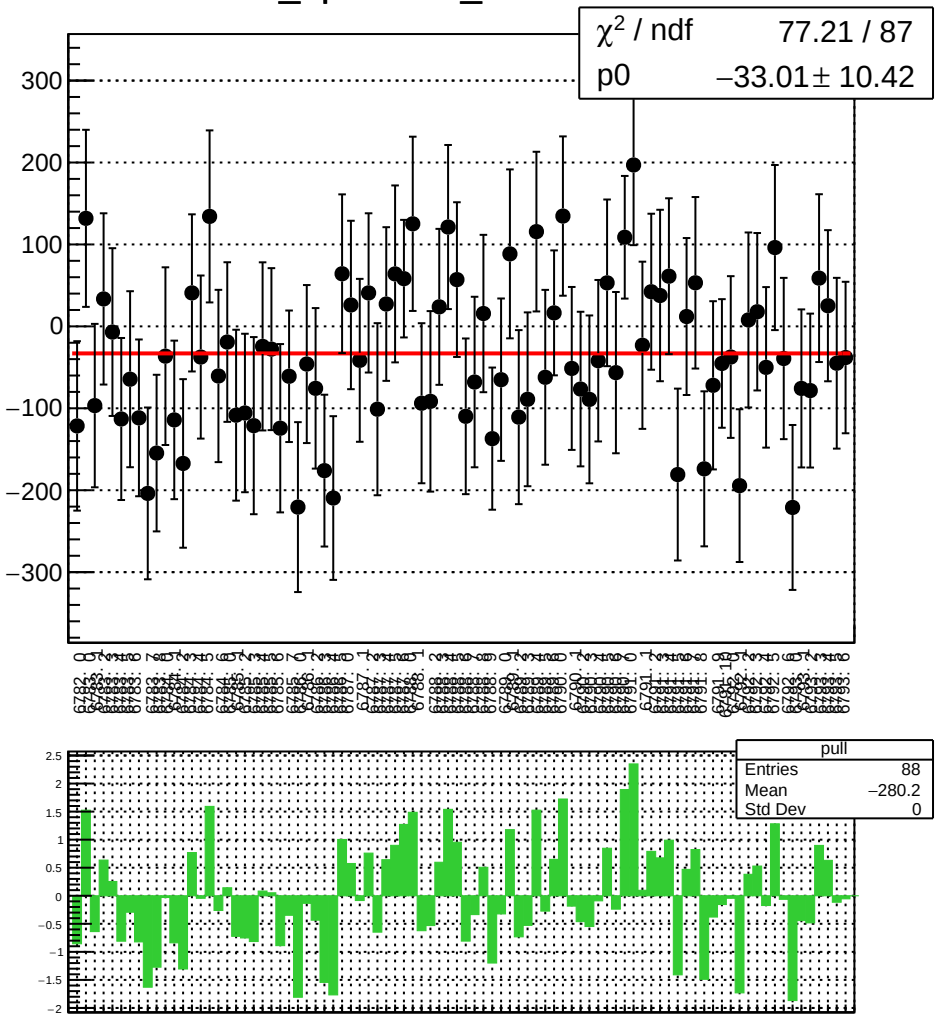

pull1D
Entries 88
Mean −0.0124
Std Dev 0.938

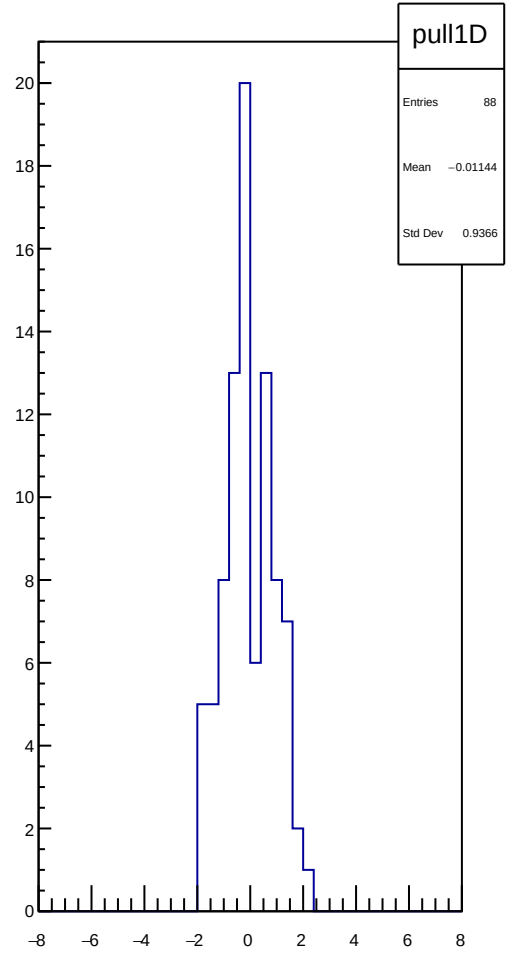

diff_bpm4eX_rms vs run
χ² / ndf 2880 / 87
p0 9332 ± 7.261
10500
10000
9500
9000
8500

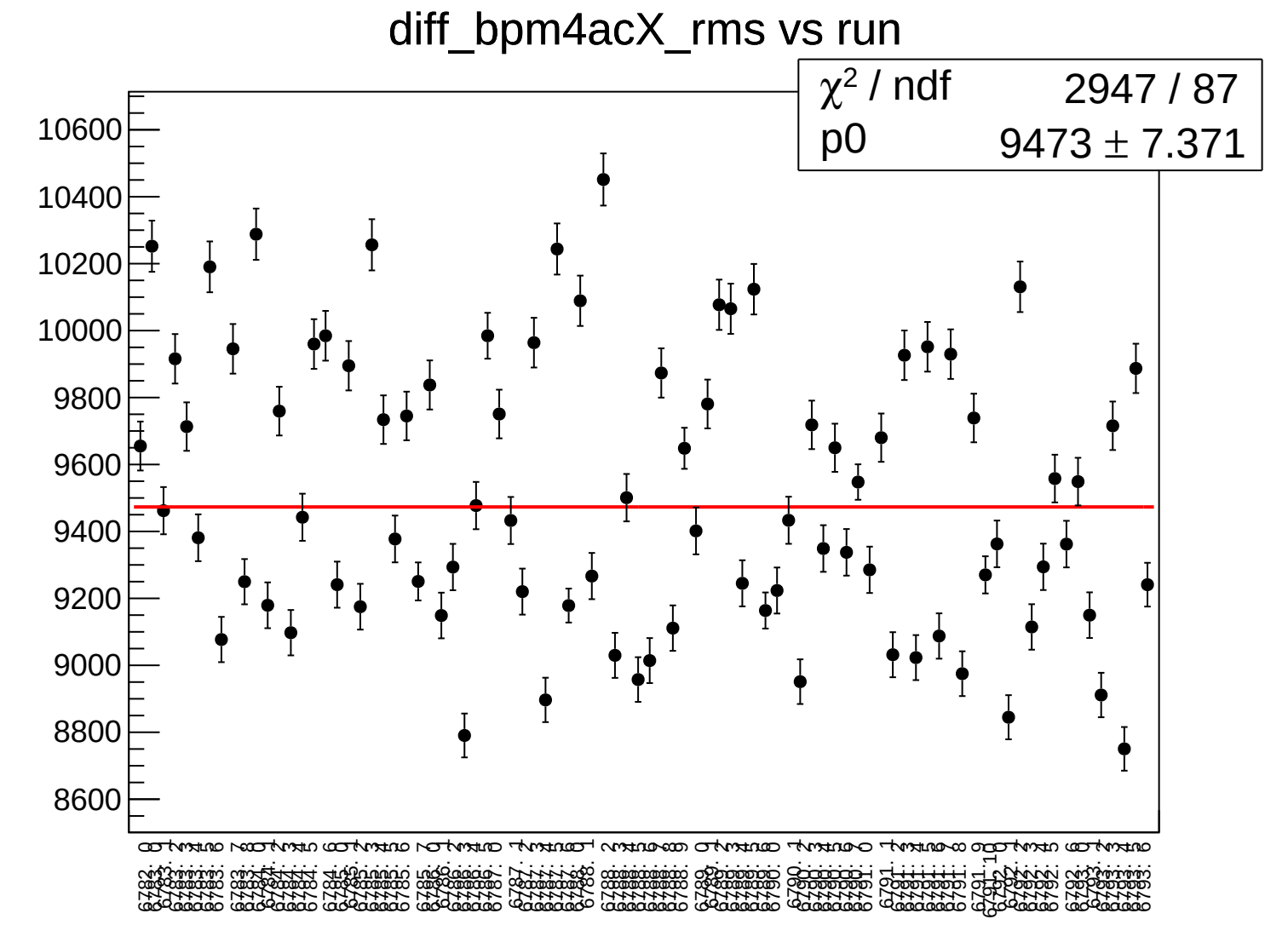

diff_bpm4eY_mean vs run
χ² / ndf 95.29 / 87
p0 6.941 ± 8.614
pull
Entries 88
Mean −279.1
Std Dev 0

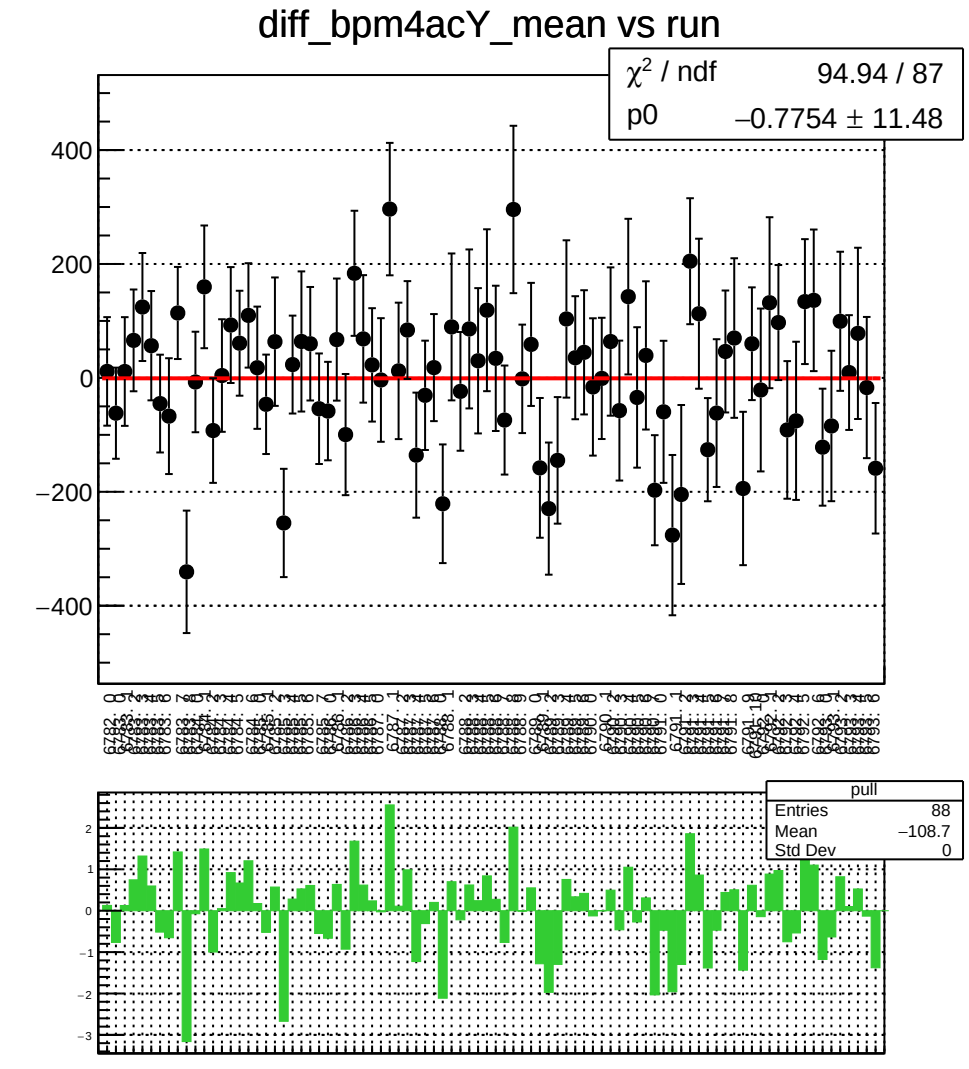

pull1D
Entries 88
Mean 0.00727
Std Dev 1.041

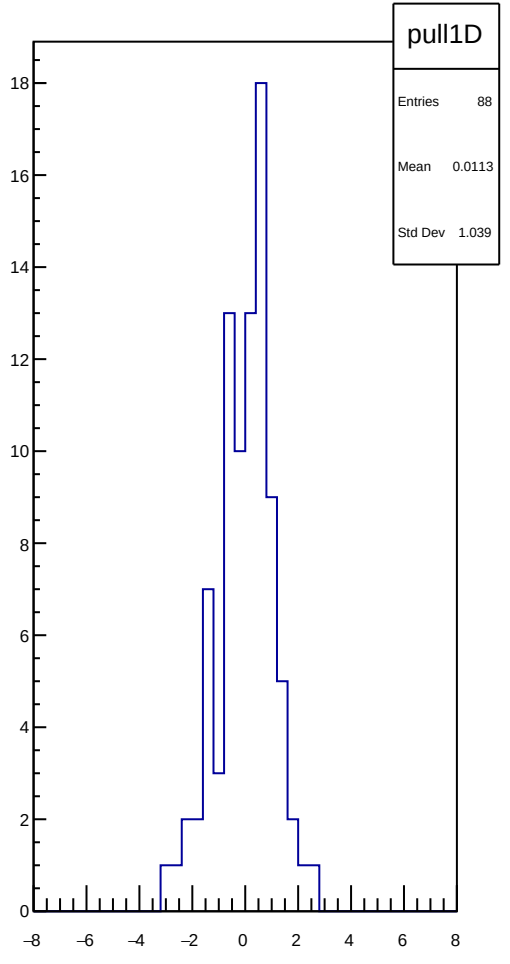

diff_bpm4eY_rms vs run
χ² / ndf 2.299e+04 / 87
p0 7781 ± 6.091
10000
9000
8000
7000
6000

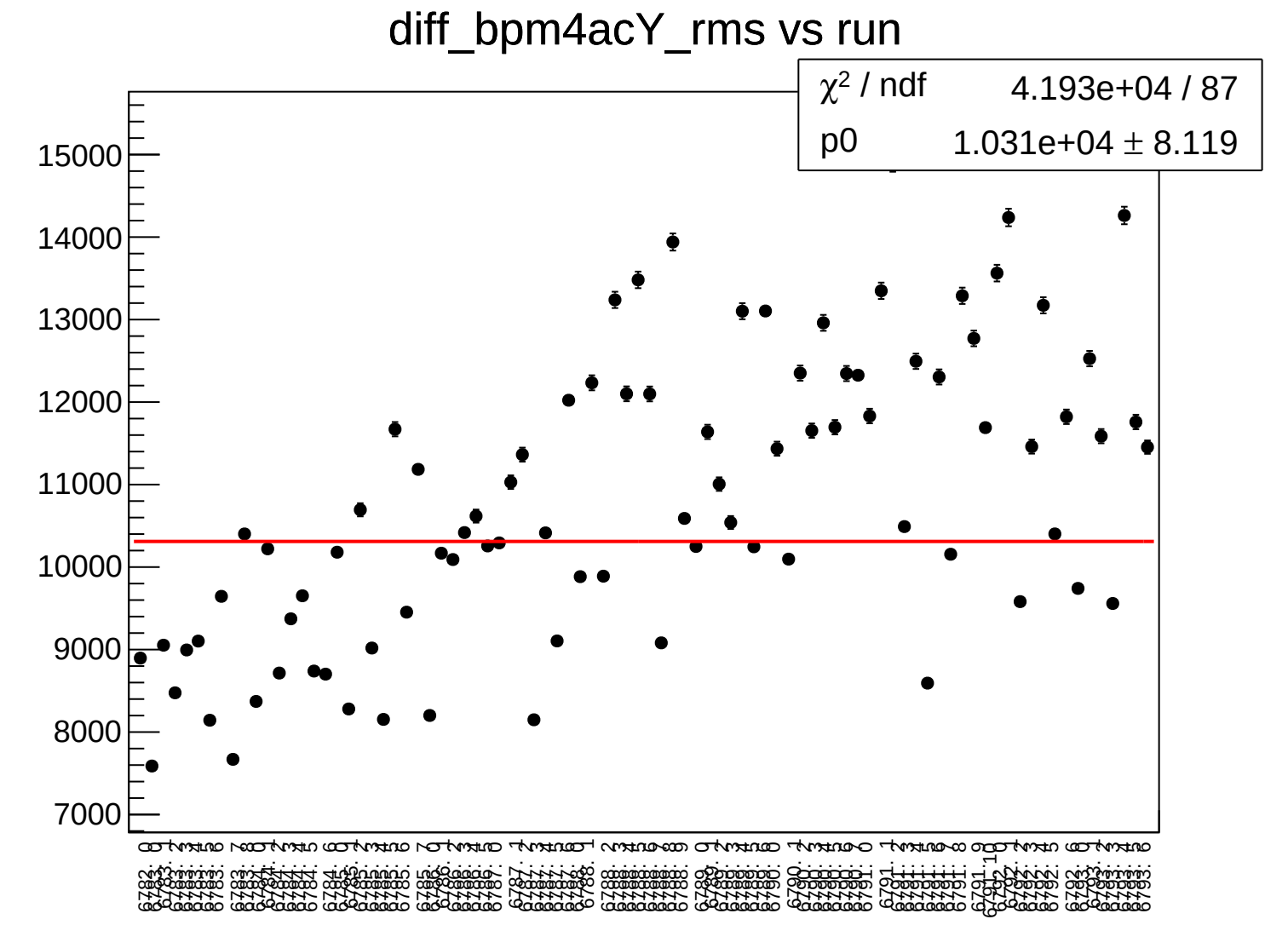

diff_bpm4acX_mean vs run
χ² / ndf 77.21 / 87
p0 −33.01 ± 10.42
pull
Entries 88
Mean −280.2
Std Dev 0

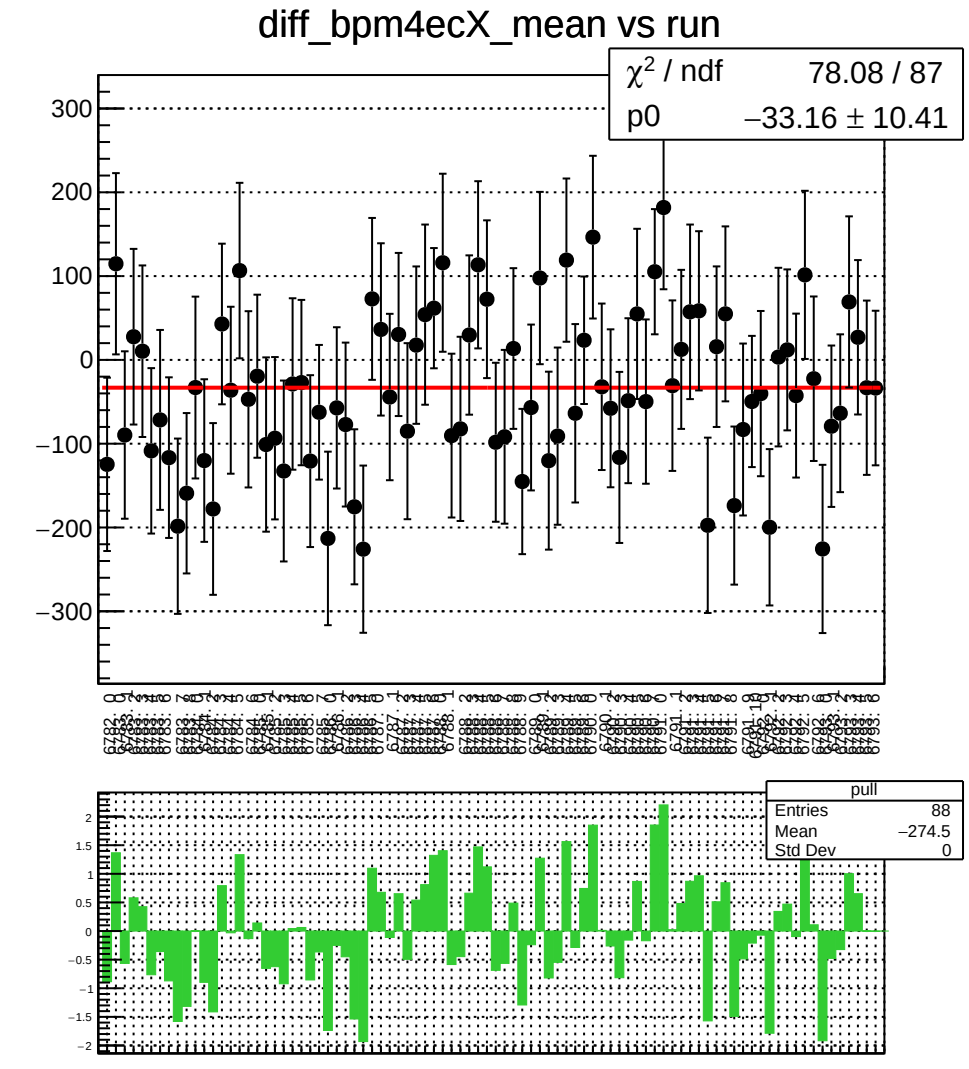

pull1D
Entries 88
Mean −0.01144
Std Dev 0.9366

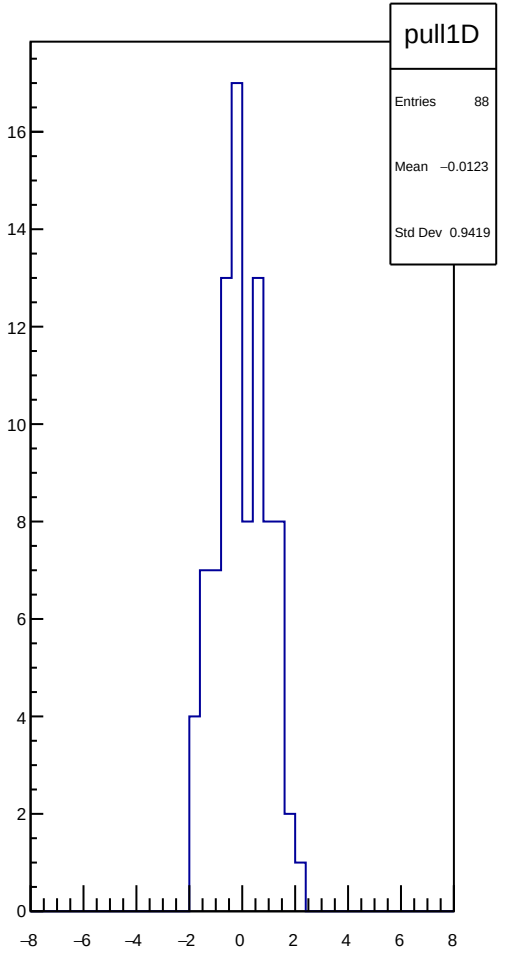

diff_bpm4acX_rms vs run
χ² / ndf 2947 / 87
p0 9473 ± 7.371
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

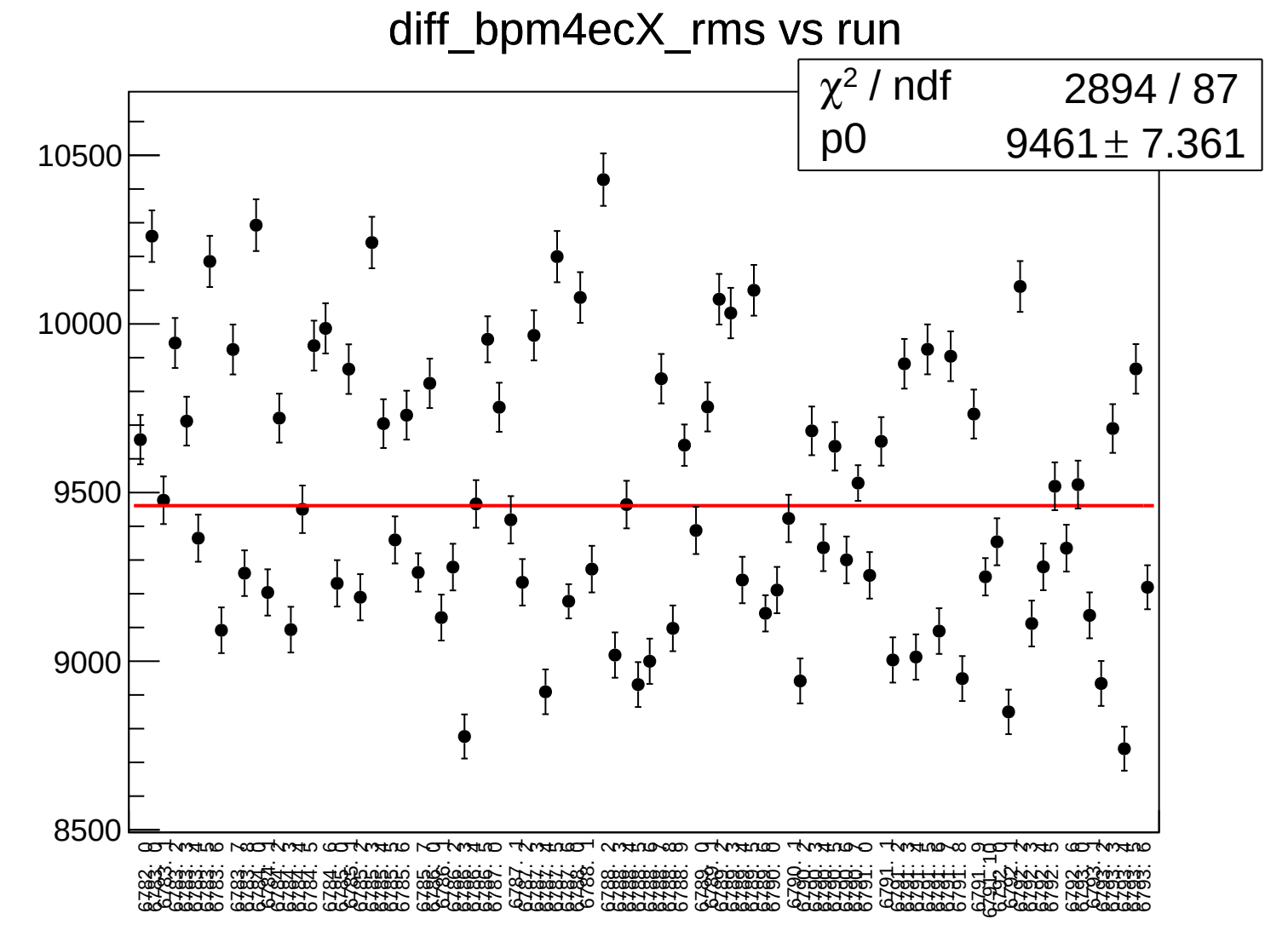

diff_bpm4acY_mean vs run
χ² / ndf 94.94 / 87
p0 −0.7754 ± 11.48
400
200
0
−200
−400
pull
Entries 88
Mean −108.7
Std Dev 0
2
1
0
−1
−2
−3

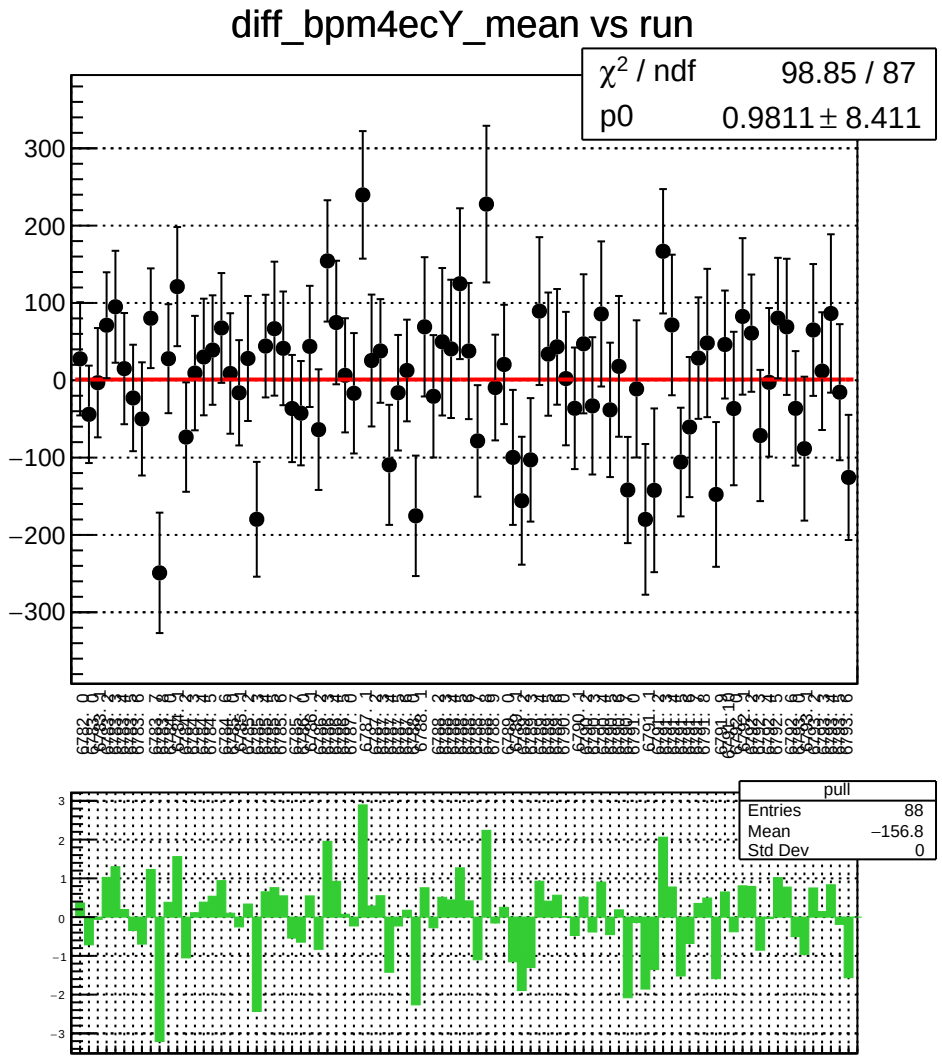

pull1D
Entries 88
Mean 0.0113
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

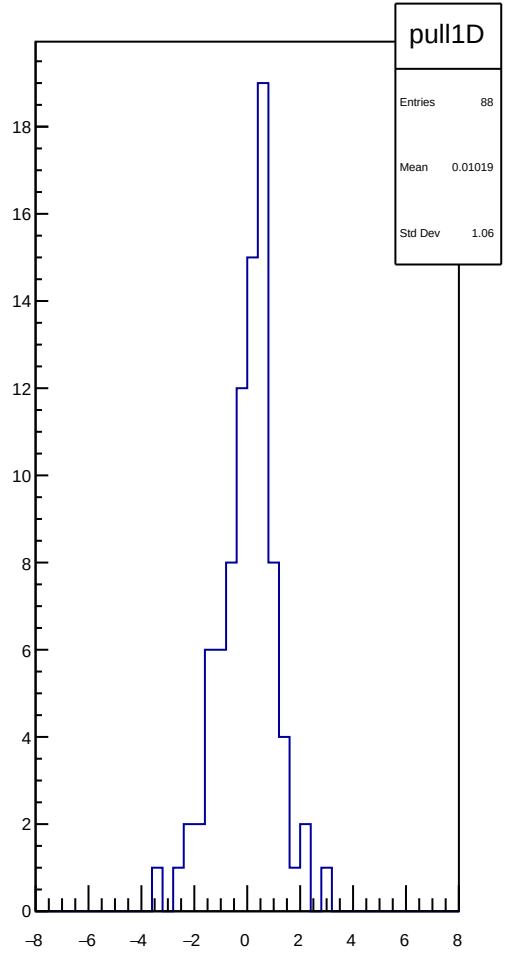

diff_bpm4acY_rms vs run
χ² / ndf 4.193e+04 / 87
p0 1.031e+04 ± 8.119
15000
14000
13000
12000
11000
10000
9000
8000
7000

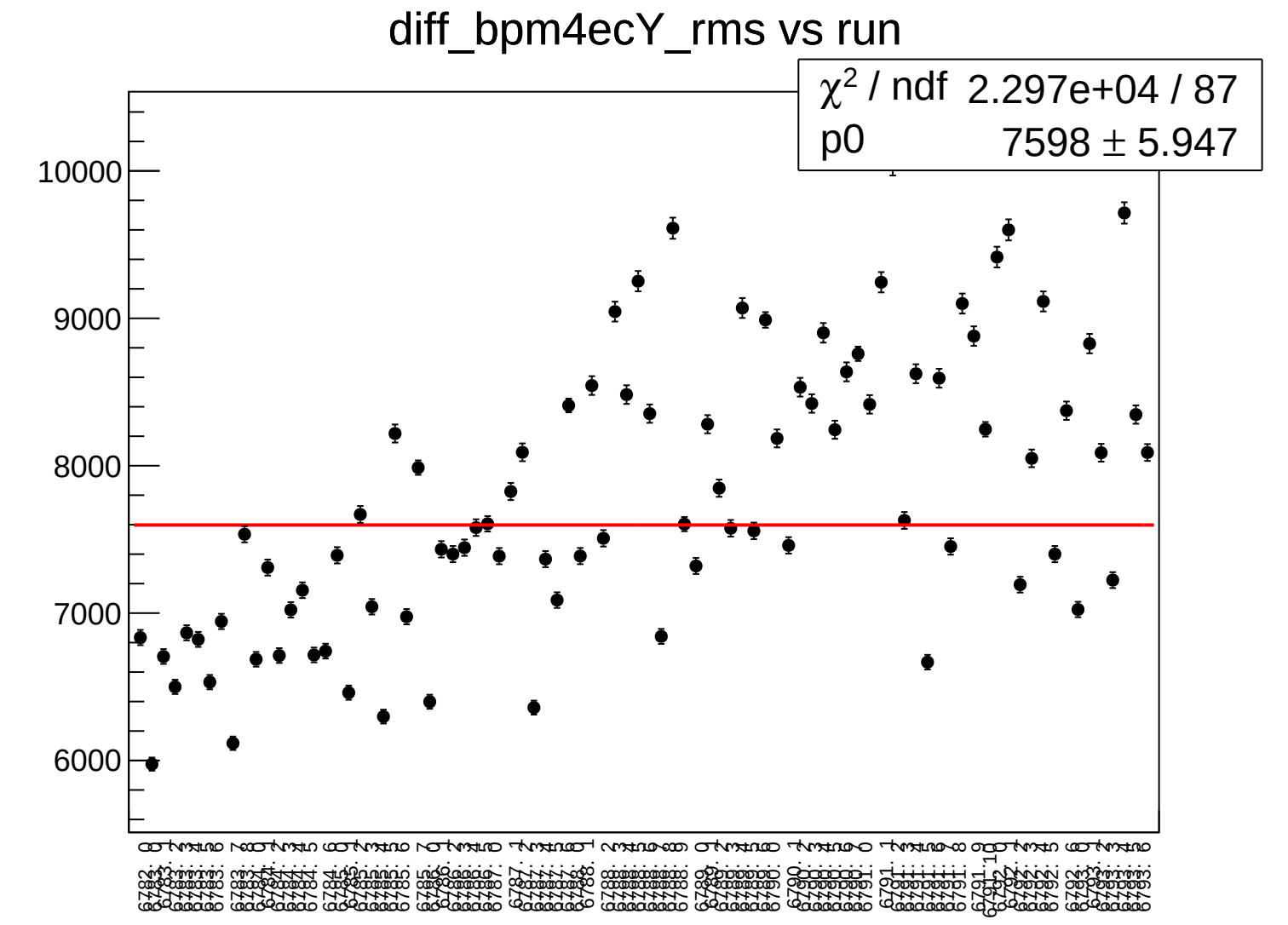

diff_bpm4ecX_mean vs run
χ² / ndf 78.08 / 87
p0 −33.16 ± 10.41
pull
Entries 88
Mean −274.5
Std Dev 0

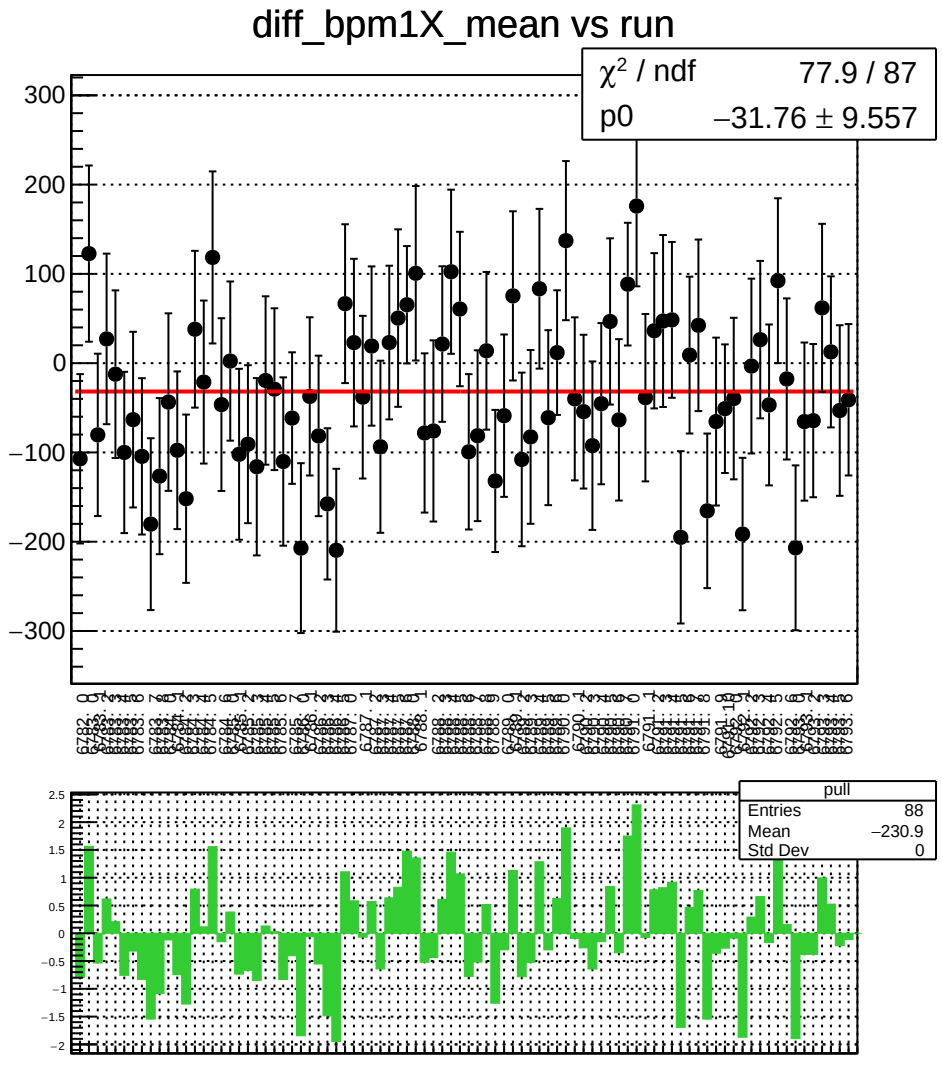

pull1D
Entries 88
Mean −0.0123
Std Dev 0.9419

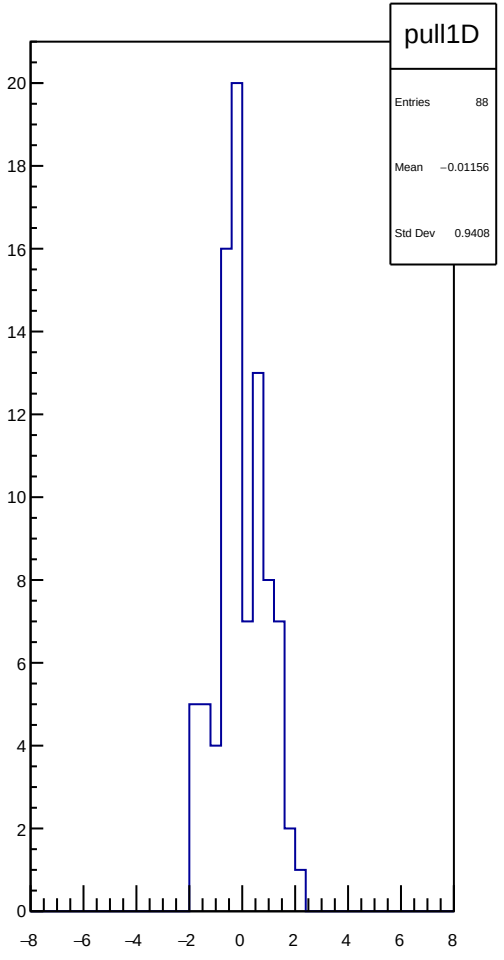

diff_bpm4ecX_rms vs run
χ² / ndf 2894 / 87
p0 9461 ± 7.361
10500
10000
9500
9000
8500

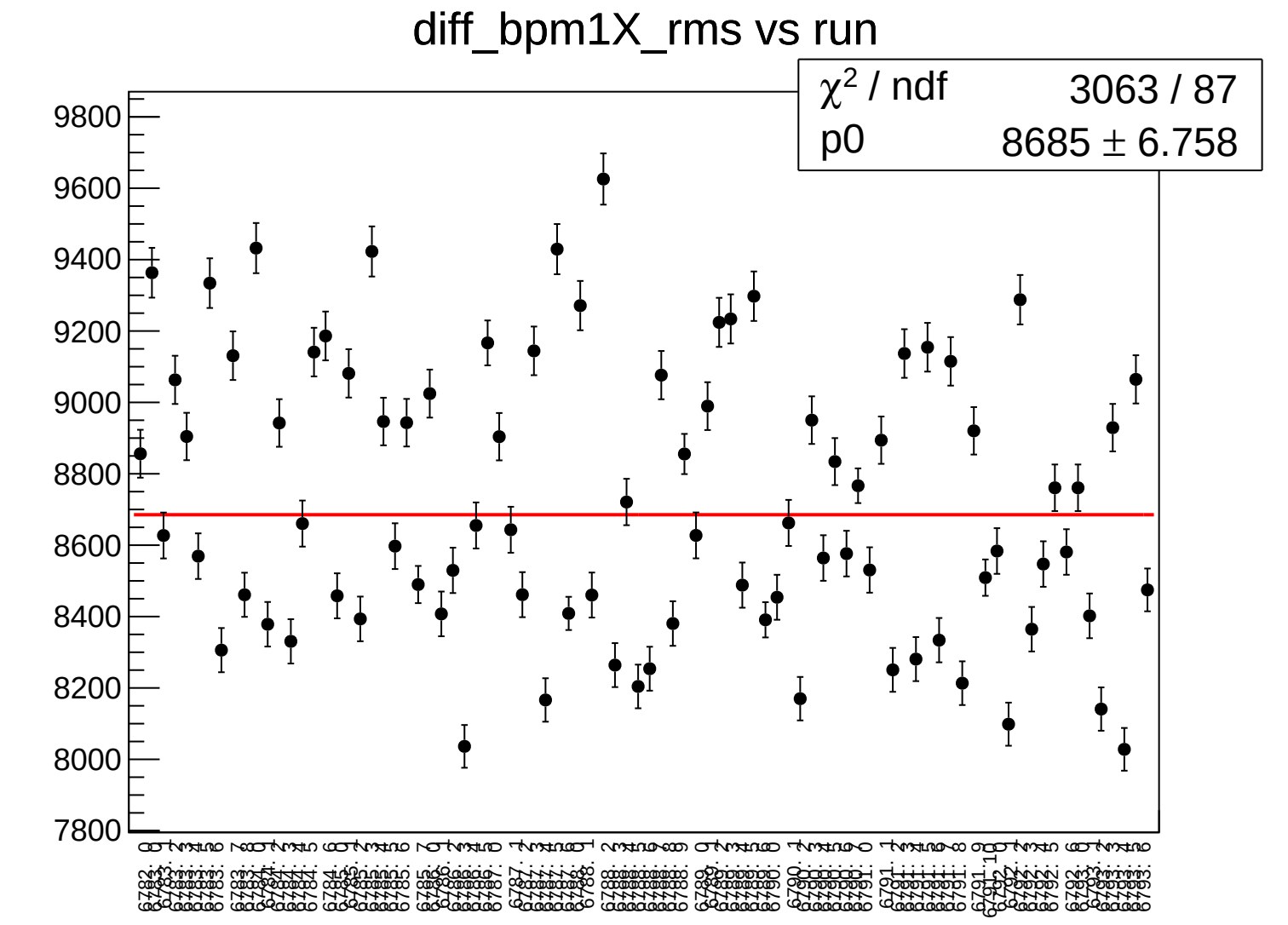

diff_bpm4ecY_mean vs run
χ^2 / ndf 98.85 / 87
p0 0.9811 ± 8.411
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −156.8
Std Dev 0
3
2
1
0
−1
−2
−3

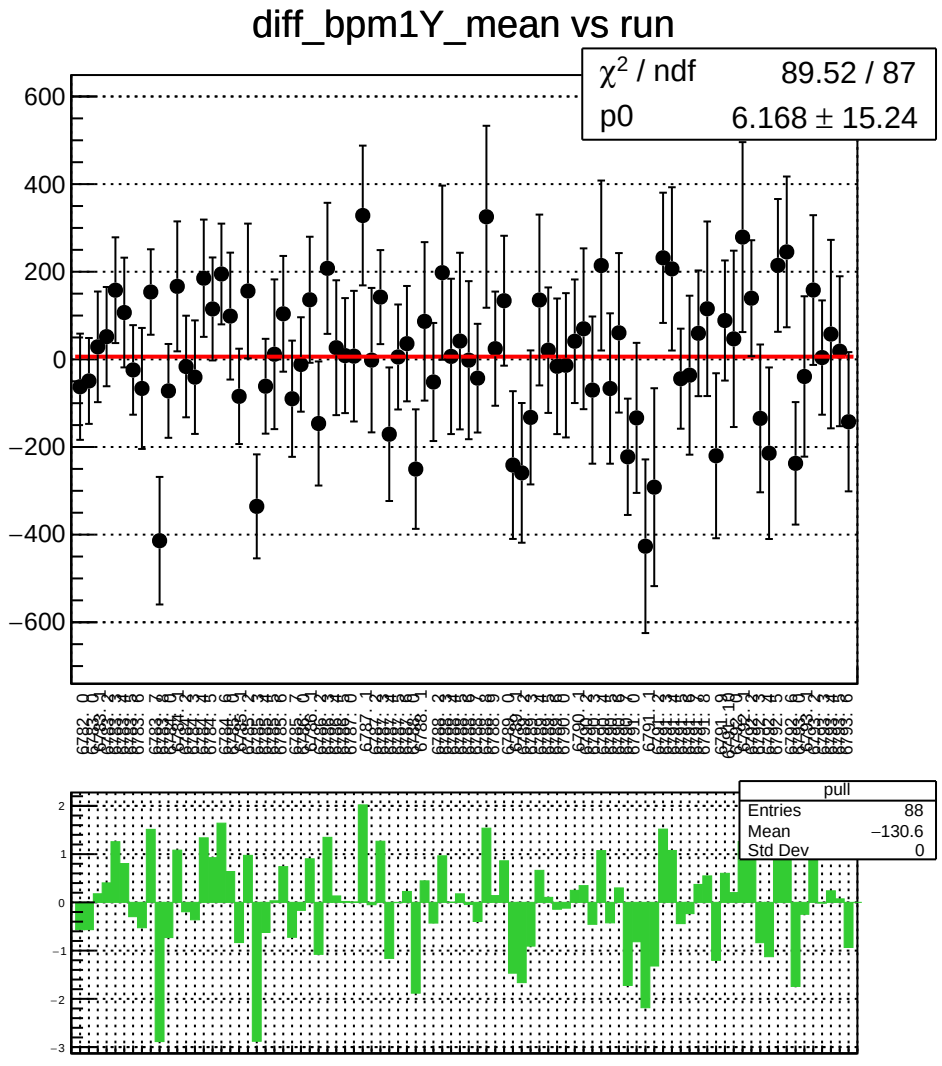

pull1D
Entries 88
Mean 0.01019
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

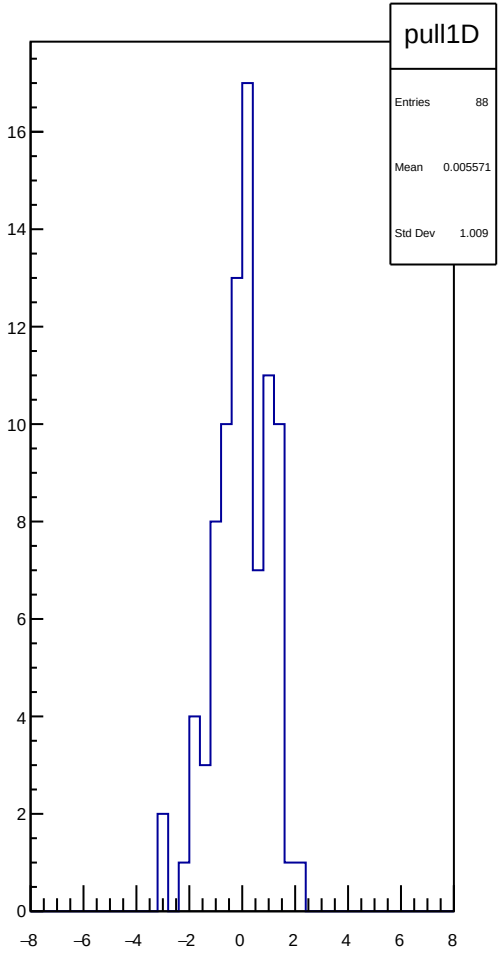

diff_bpm4ecY_rms vs run
χ² / ndf 2.297e+04 / 87
p0 7598 ± 5.947
10000
9000
8000
7000
6000

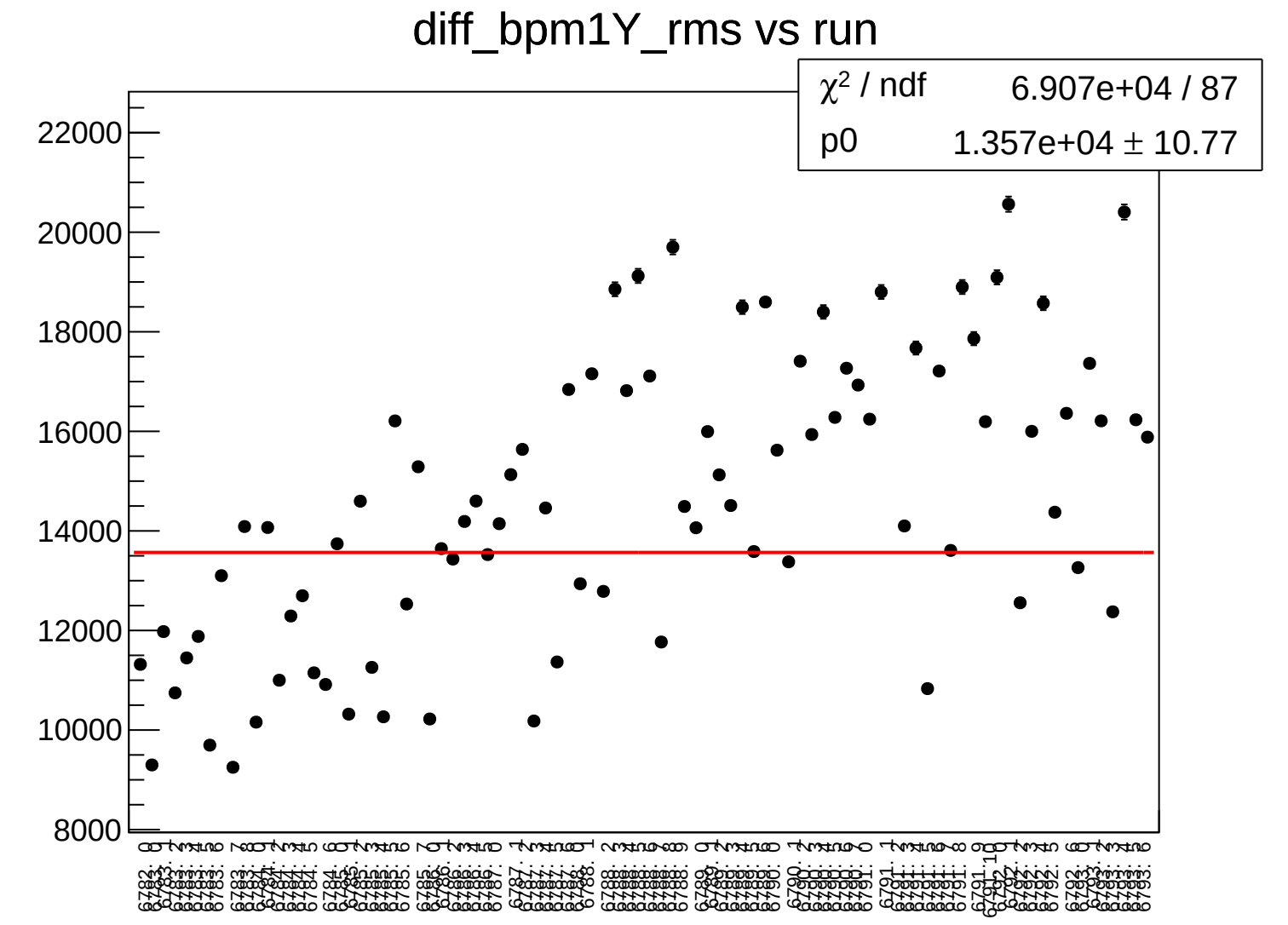

diff_bpm1X_mean vs run
χ² / ndf 77.9 / 87
p0 −31.76 ± 9.557
pull
Entries 88
Mean −230.9
Std Dev 0

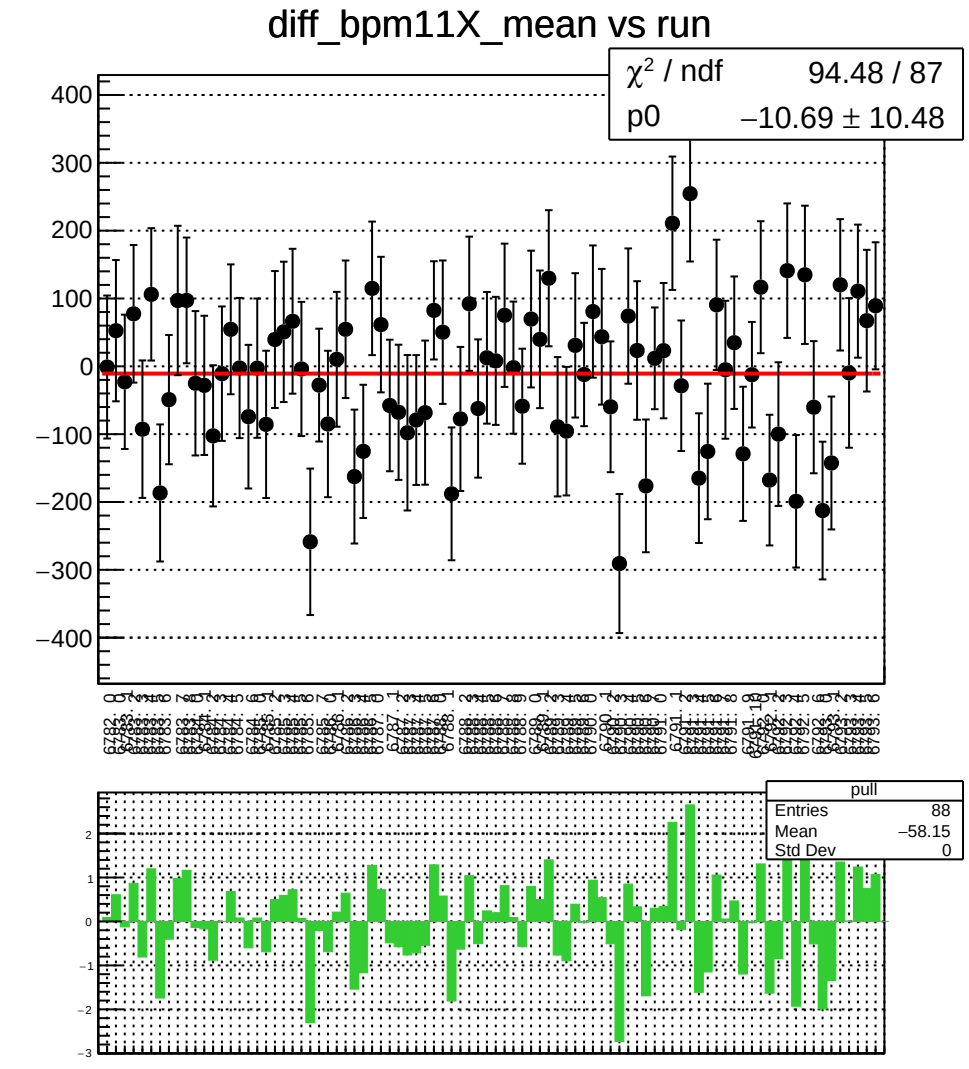

pull1D
Entries 88
Mean −0.01156
Std Dev 0.9408

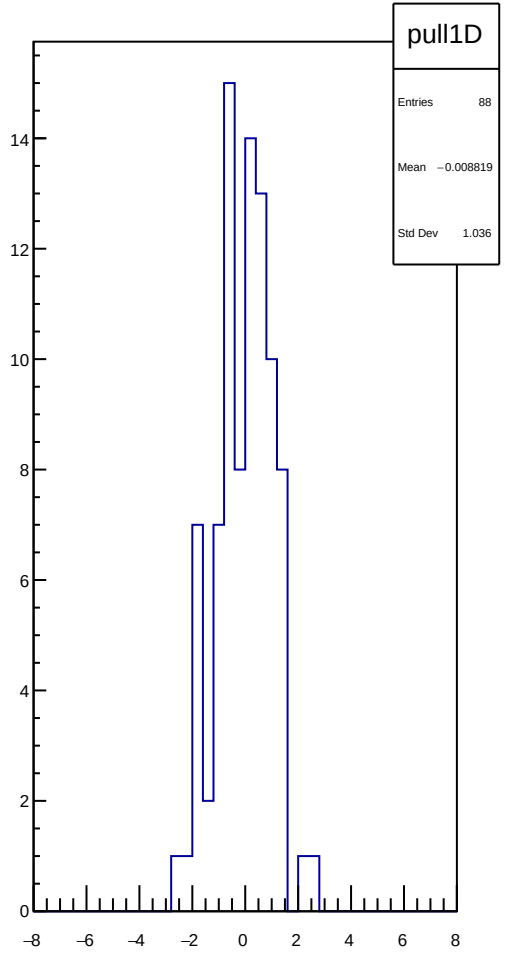

diff_bpm1X_rms vs run
χ² / ndf 3063 / 87
p0 8685 ± 6.758
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

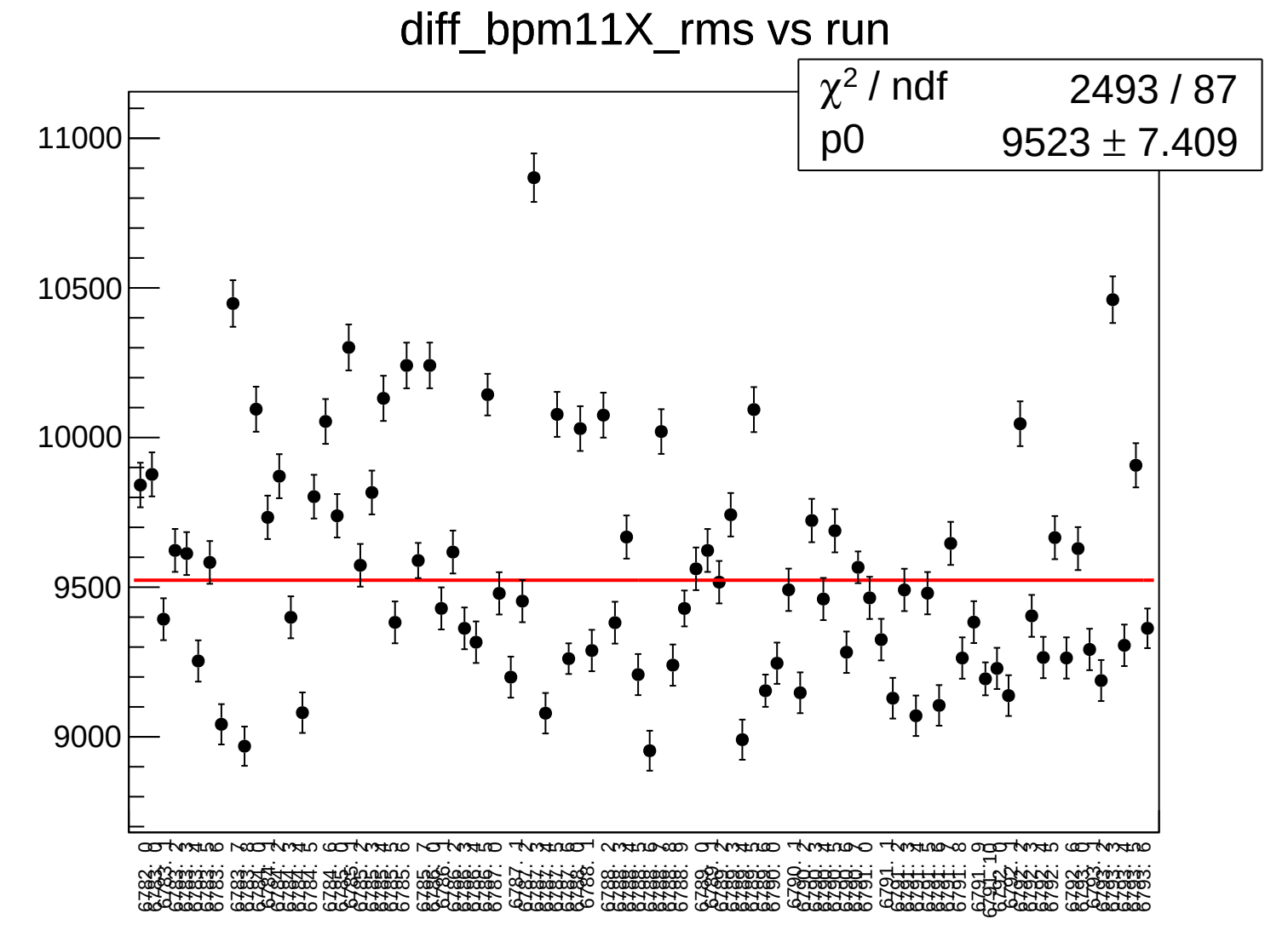

diff_bpm1Y_mean vs run
χ² / ndf 89.52 / 87
p0 6.168 ± 15.24
pull
Entries 88
Mean −130.6
Std Dev 0

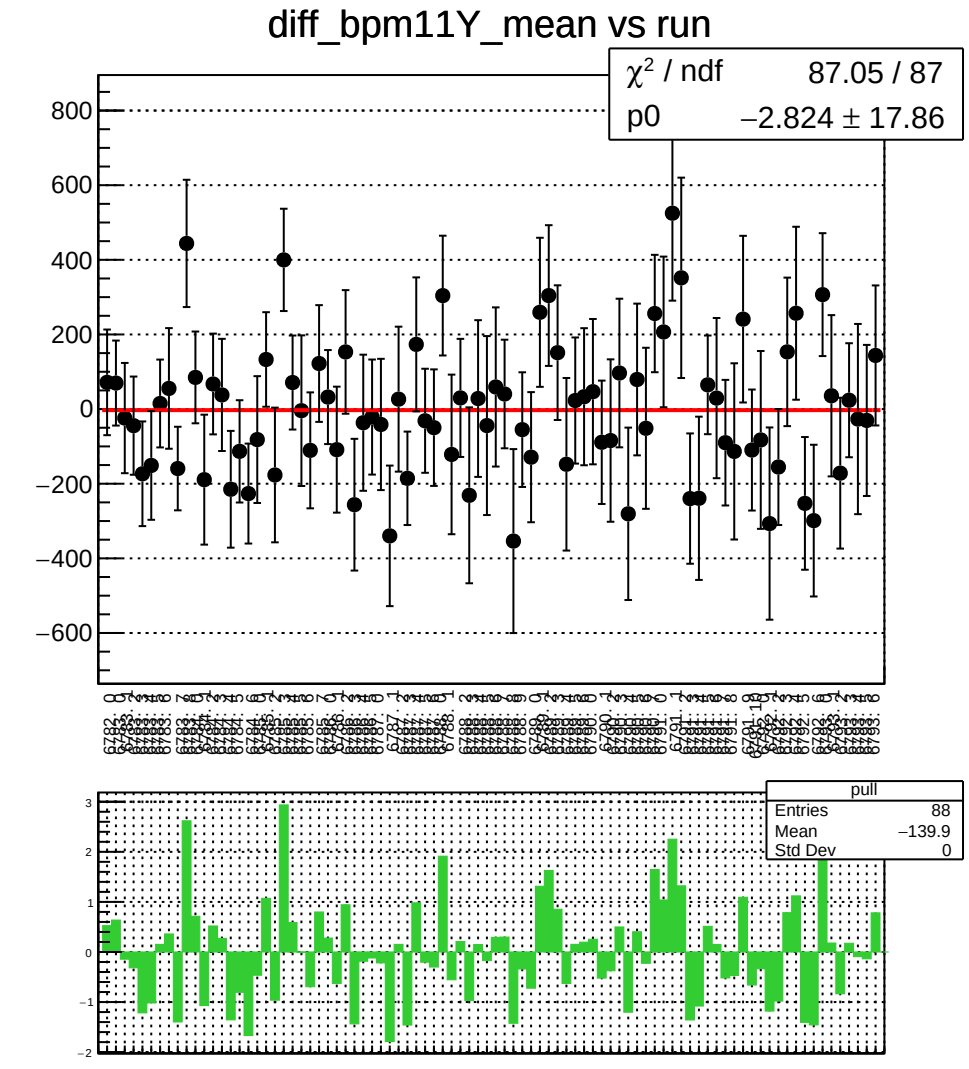

pull1D
Entries 88
Mean 0.005571
Std Dev 1.009

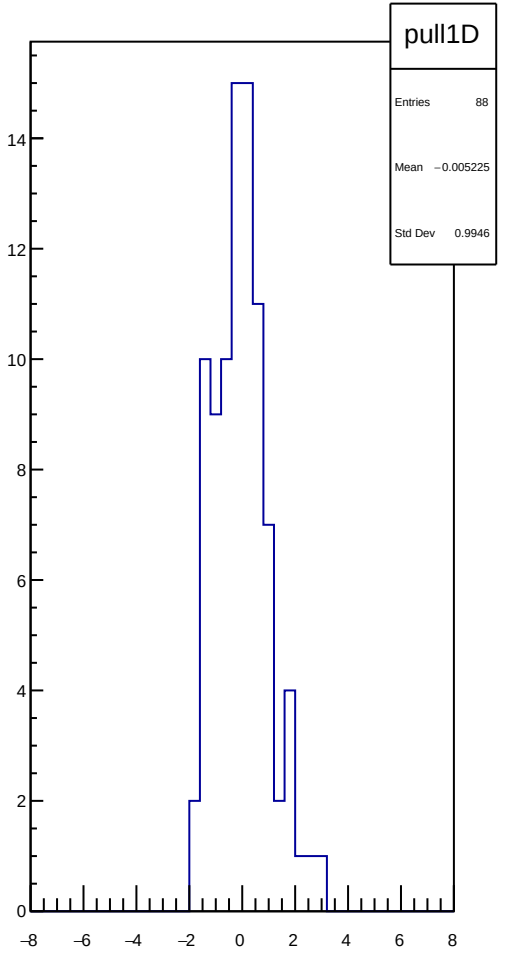

diff_bpm1Y_rms vs run
χ² / ndf 6.907e+04 / 87
p0 1.357e+04 ± 10.77
22000
20000
18000
16000
14000
12000
10000
8000

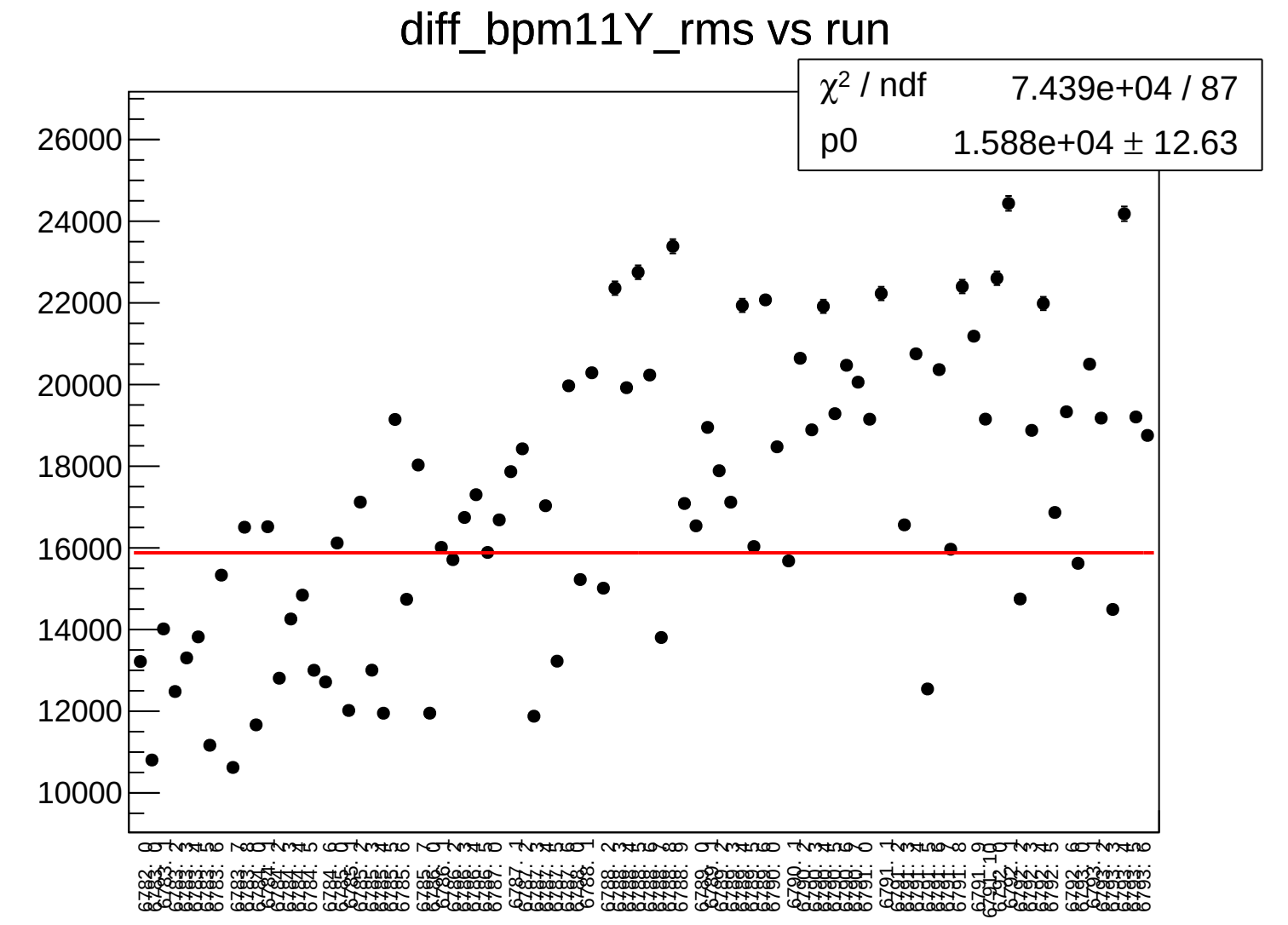

diff_bpm11X_mean vs run
χ² / ndf 94.48 / 87
p0 −10.69 ± 10.48
pull
Entries 88
Mean −58.15
Std Dev 0

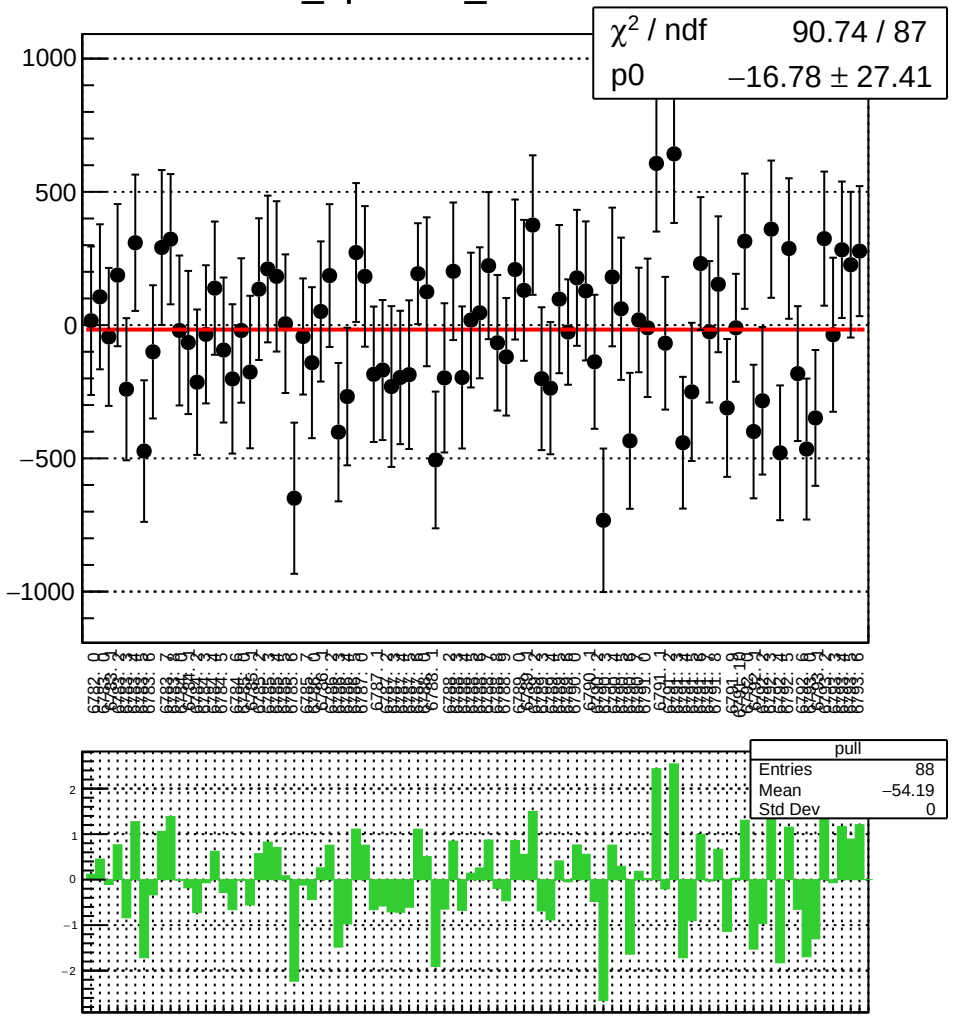

pull1D
Entries 88
Mean −0.008819
Std Dev 1.036

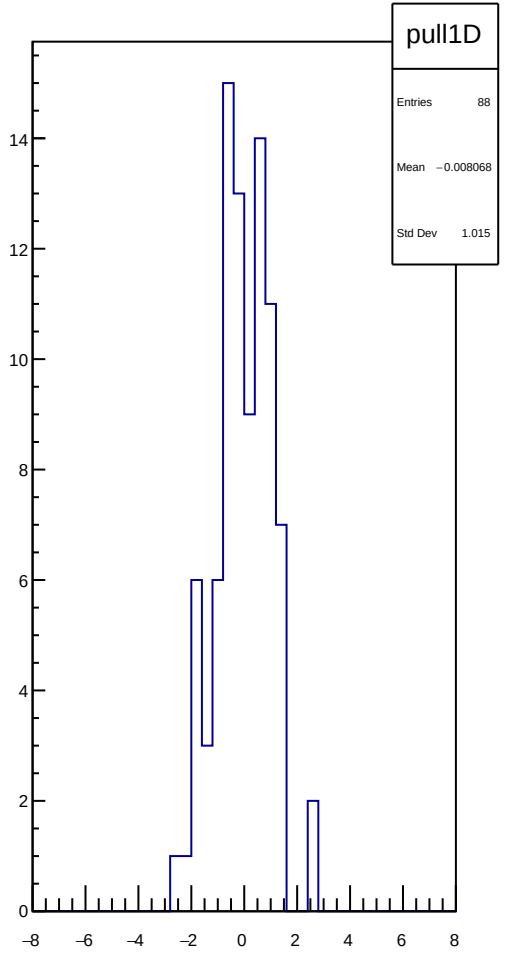

diff_bpm11X_rms vs run
χ² / ndf 2493 / 87
p0 9523 ± 7.409
11000
10500
10000
9500
9000

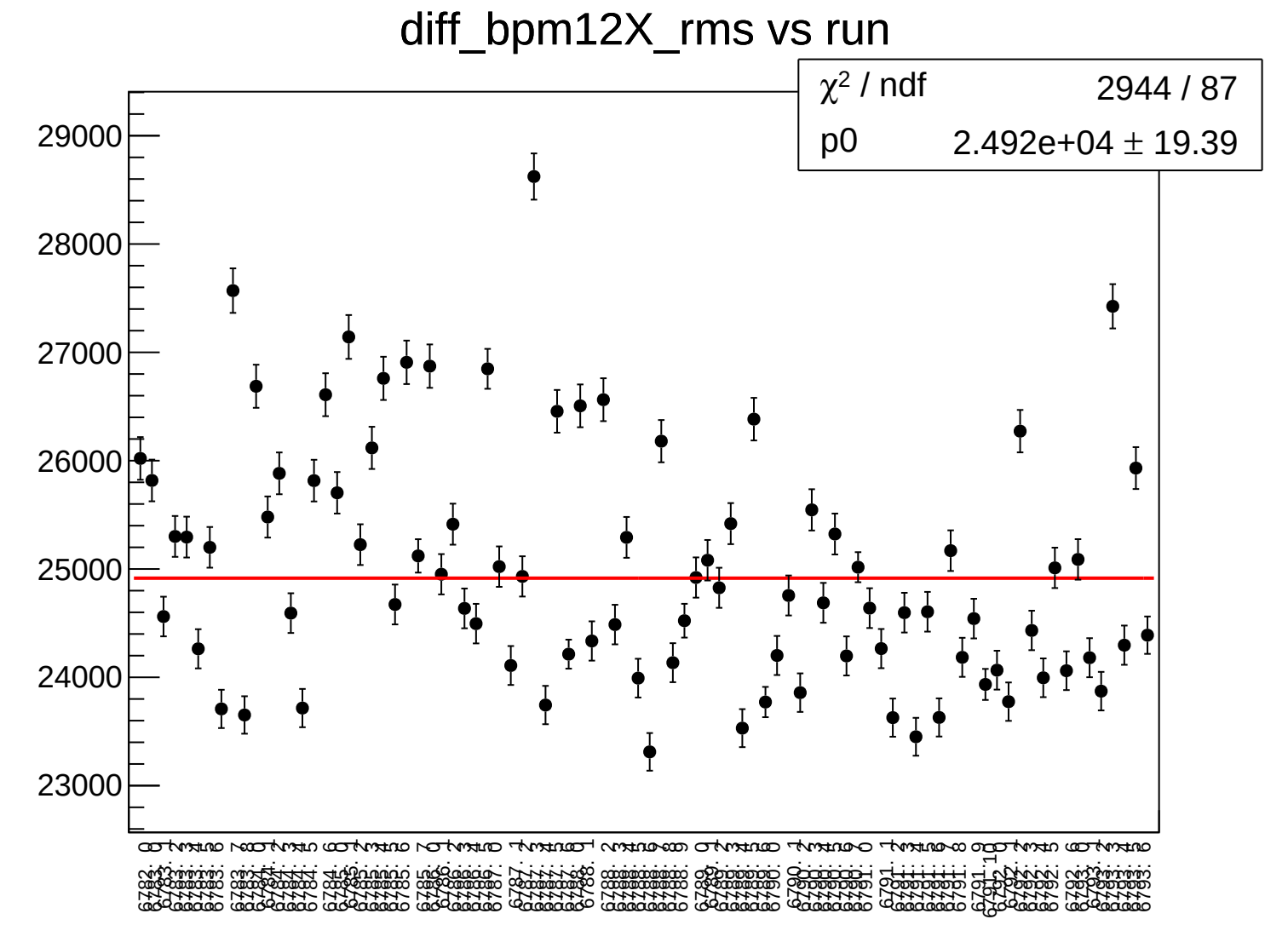

diff_bpm11Y_mean vs run
χ² / ndf 87.05 / 87
p0 −2.824 ± 17.86
pull
Entries 88
Mean −139.9
Std Dev 0

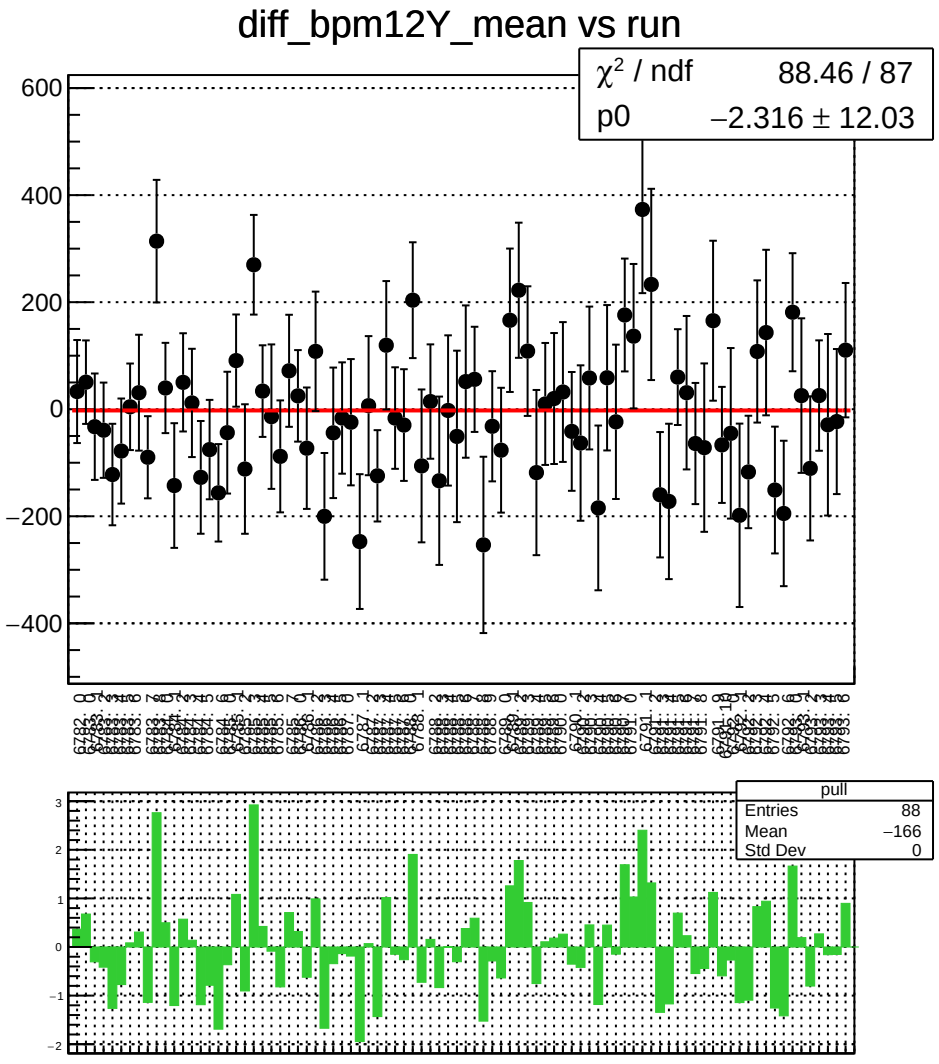

pull1D
Entries 88
Mean −0.005225
Std Dev 0.9946

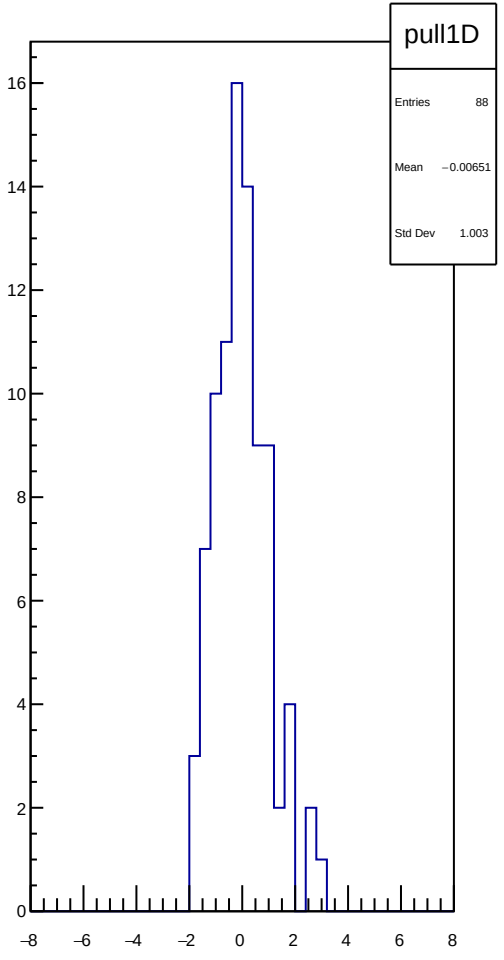

diff_bpm11Y_rms vs run
χ² / ndf 7.439e+04 / 87
p0 1.588e+04 ± 12.63
26000
24000
22000
20000
18000
16000
14000
12000
10000

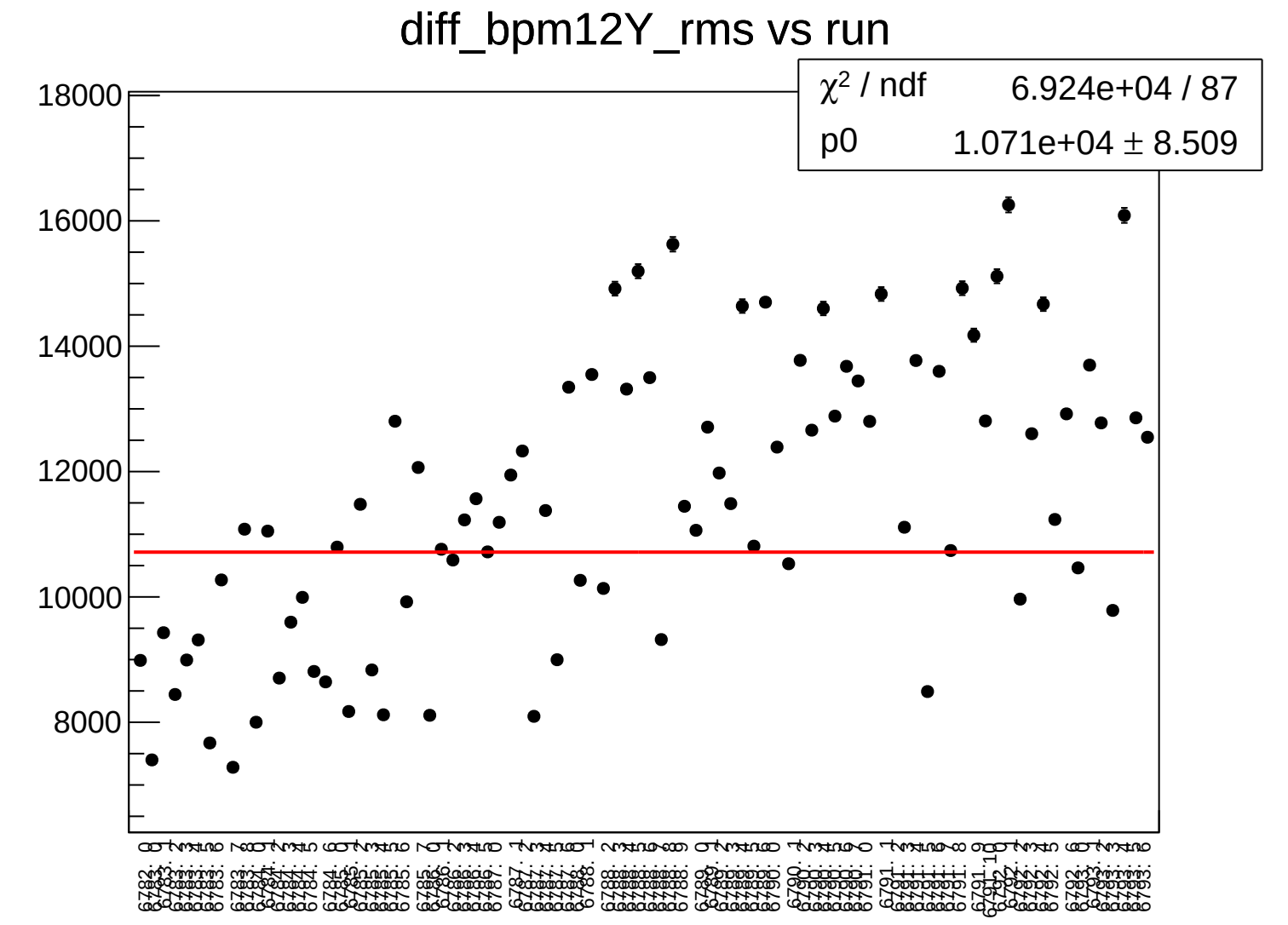

diff_bpm12X_mean vs run
χ^2 / ndf 90.74 / 87
p0 −16.78 ± 27.41
1000
500
0
−500
−1000
pull
Entries 88
Mean −54.19
Std Dev 0
2
1
0
−1
−2

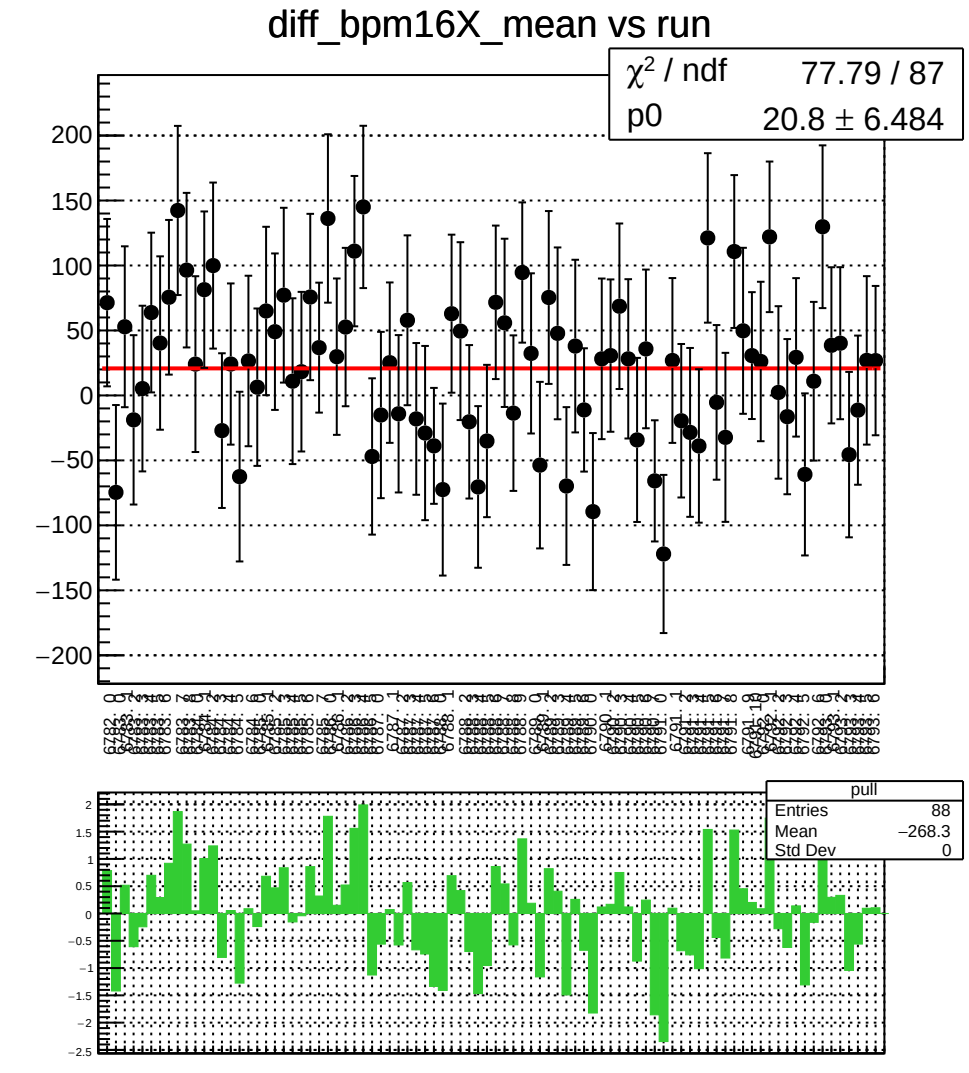

pull1D
Entries 88
Mean −0.008068
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

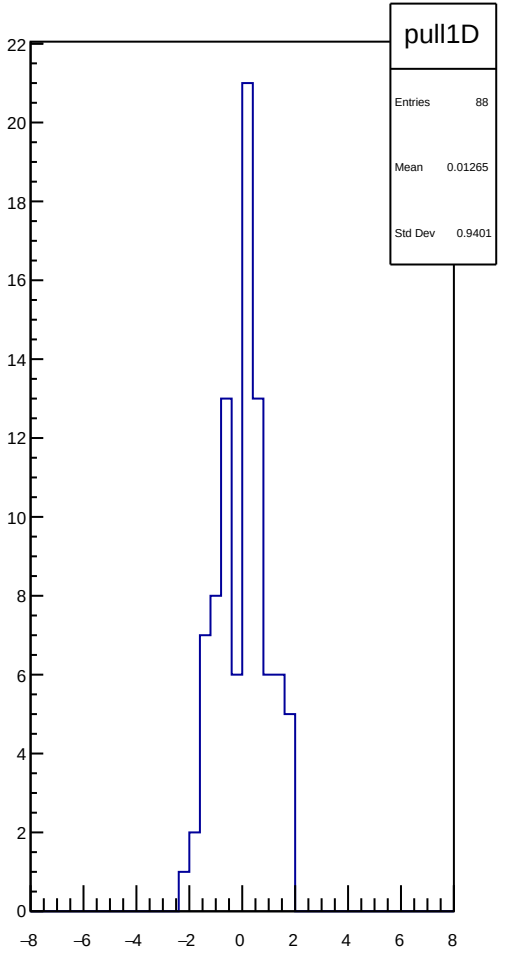

diff_bpm12X_rms vs run
χ² / ndf 2944 / 87
p0 2.492e+04 ± 19.39
29000
28000
27000
26000
25000
24000
23000

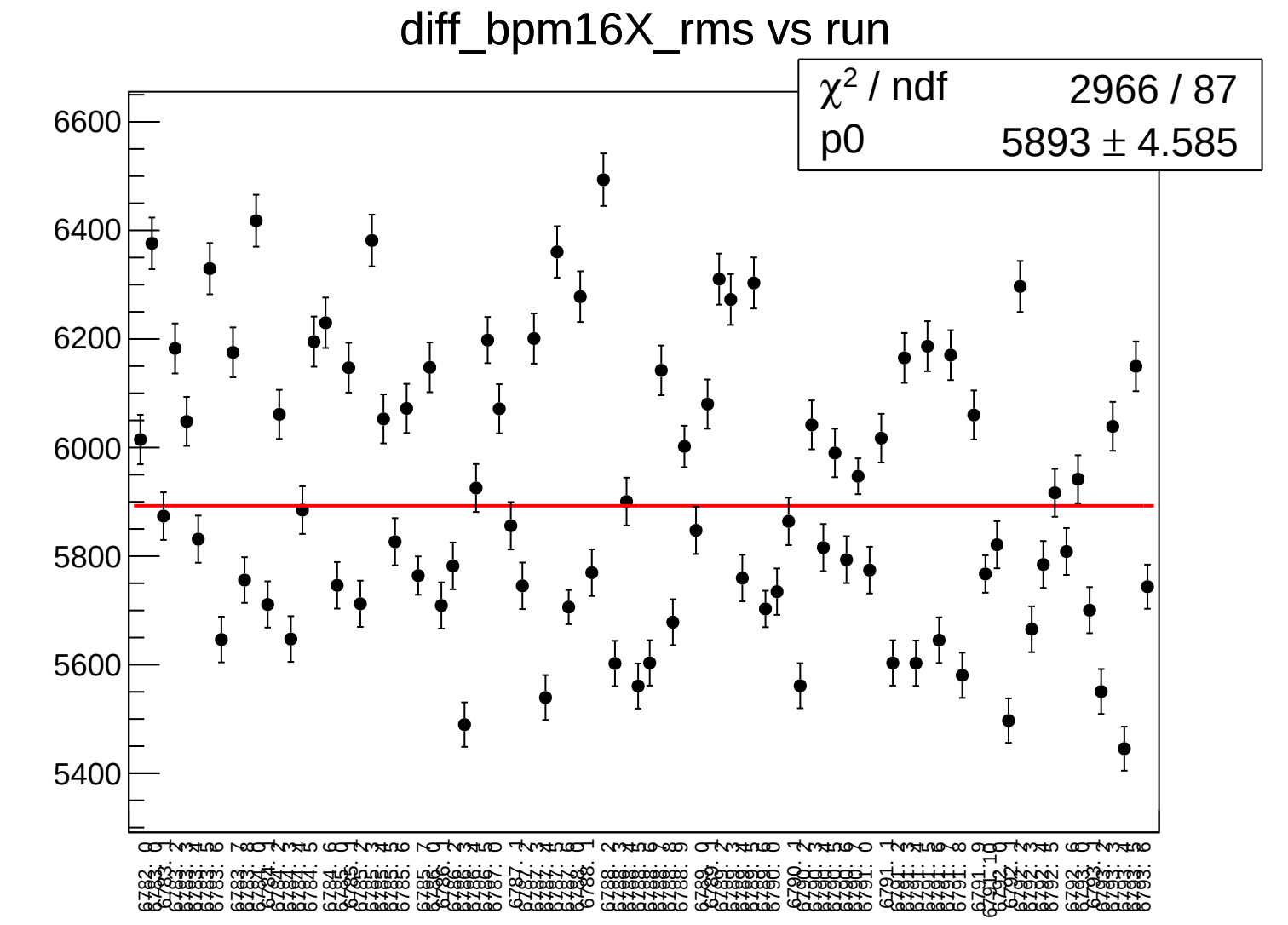

diff_bpm12Y_mean vs run
χ² / ndf 88.46 / 87
p0 −2.316 ± 12.03
600
400
200
0
−200
−400
pull
Entries 88
Mean −166
Std Dev 0
3
2
1
0
−1
−2

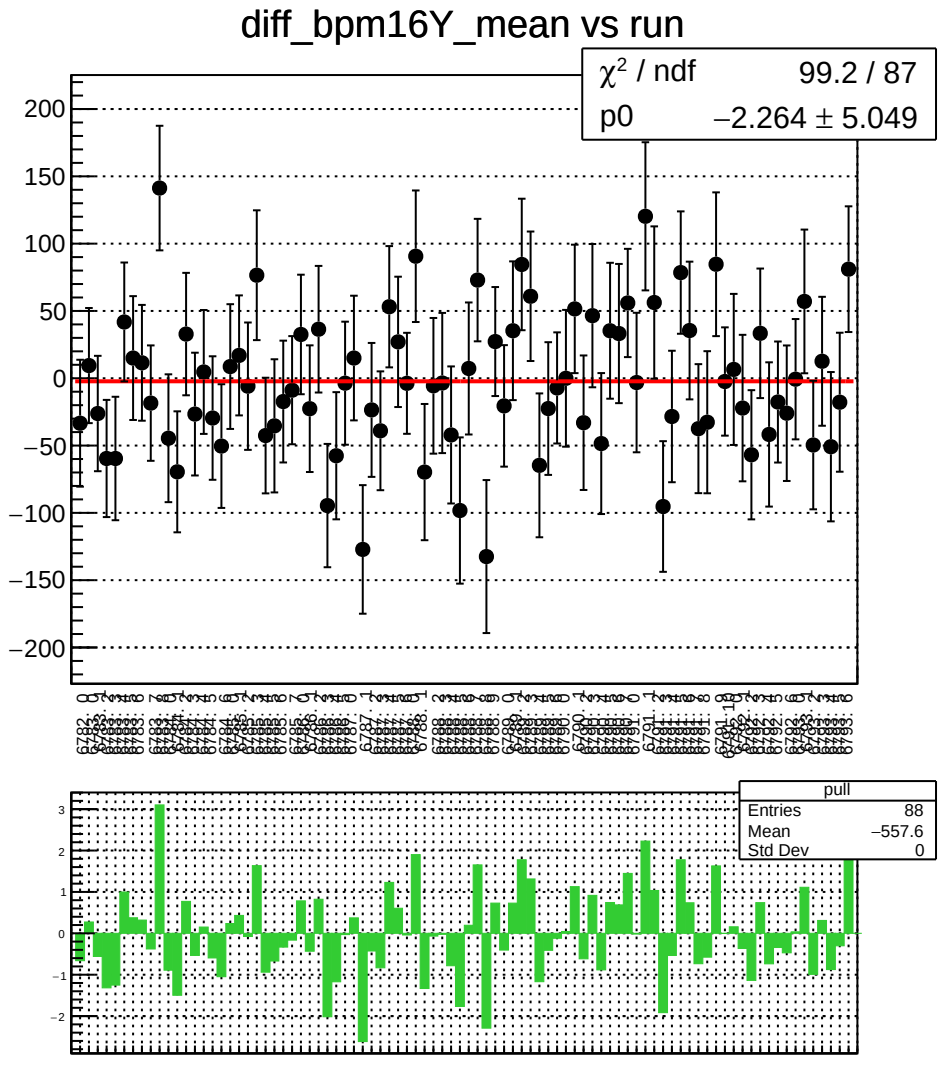

pull1D
Entries 88
Mean −0.00651
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

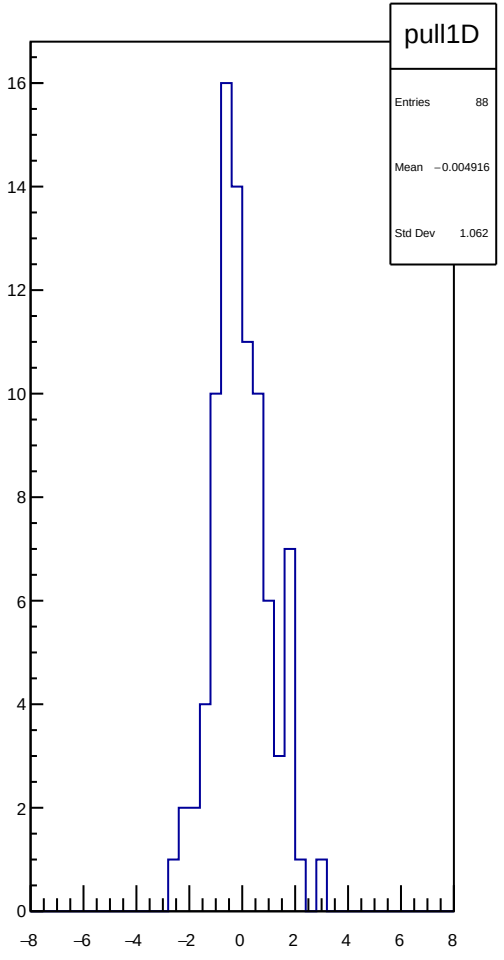

diff_bpm12Y_rms vs run
χ² / ndf 6.924e+04 / 87
p0 1.071e+04 ± 8.509
18000
16000
14000
12000
10000
8000

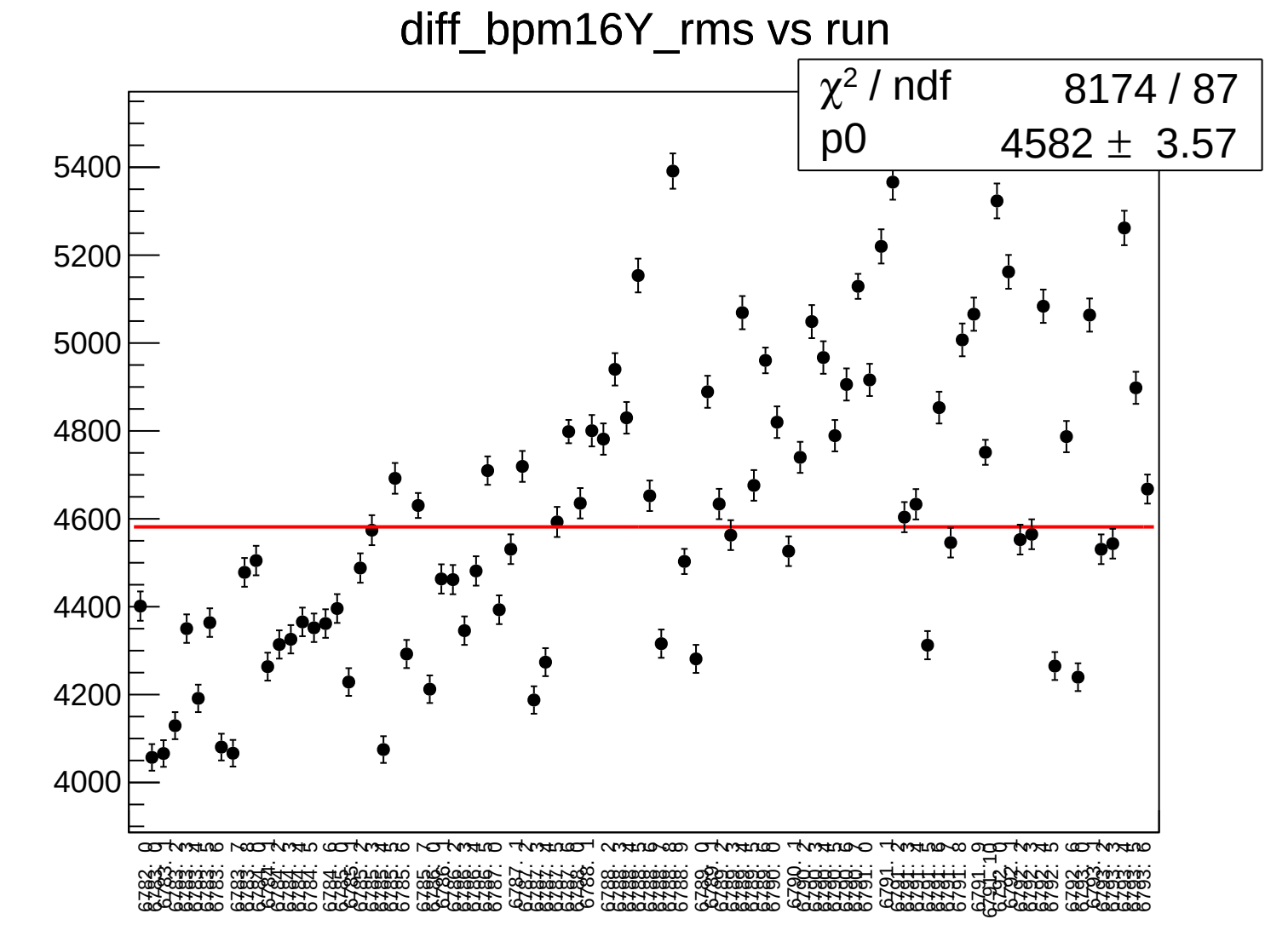

diff_bpm16X_mean vs run
χ² / ndf 77.79 / 87
p0 20.8 ± 6.484
pull
Entries 88
Mean −268.3
Std Dev 0

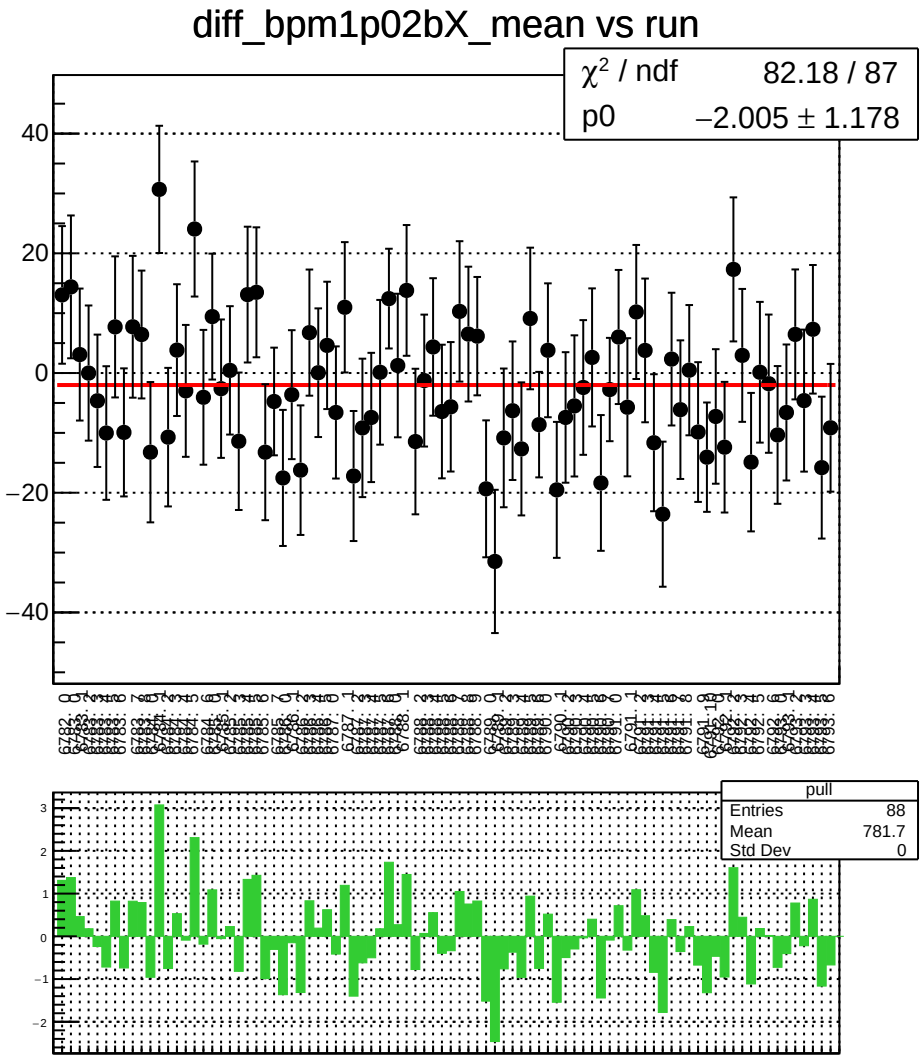

pull1D
Entries 88
Mean 0.01265
Std Dev 0.9401

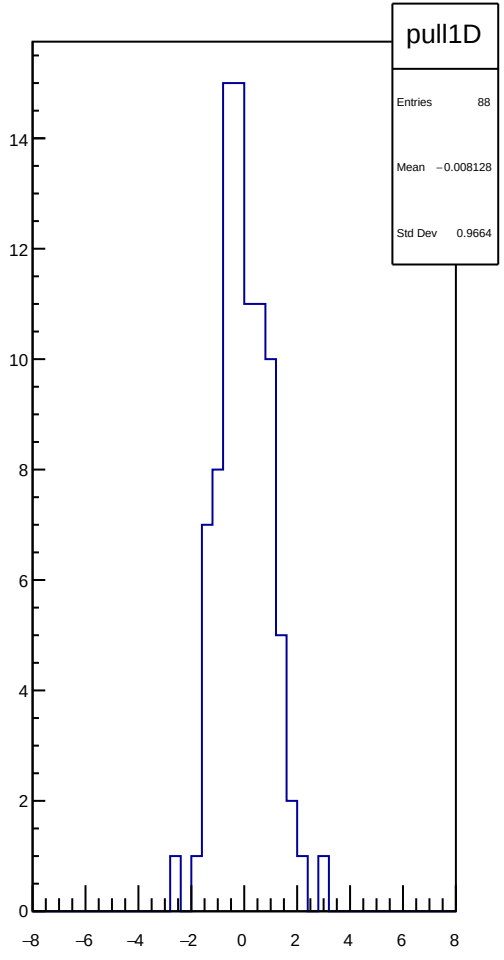

diff_bpm16X_rms vs run
χ² / ndf 2966 / 87
p0 5893 ± 4.585
6600
6400
6200
6000
5800
5600
5400

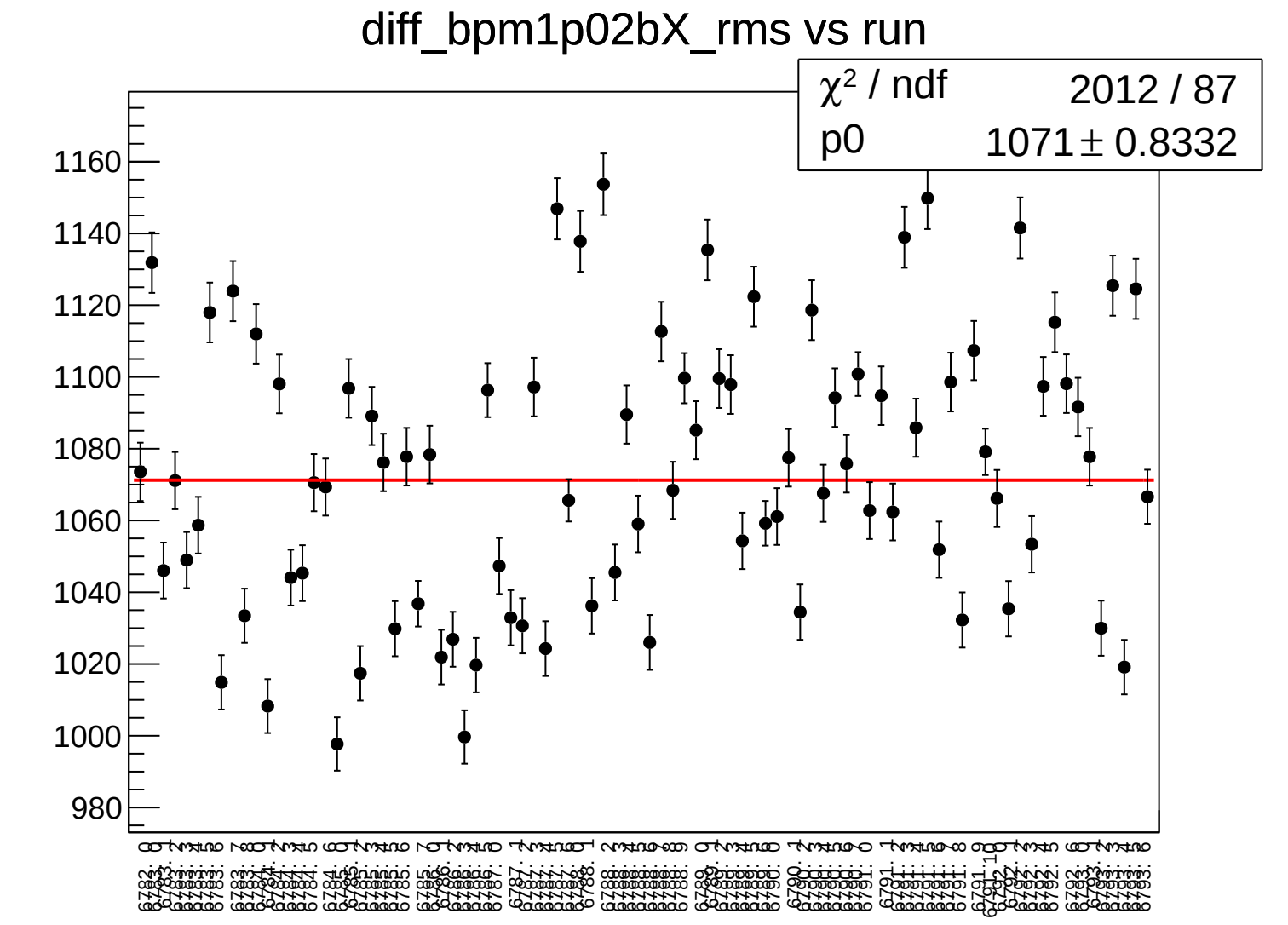

diff_bpm16Y_mean vs run
χ² / ndf 99.2 / 87
p0 −2.264 ± 5.049
pull
Entries 88
Mean −557.6
Std Dev 0

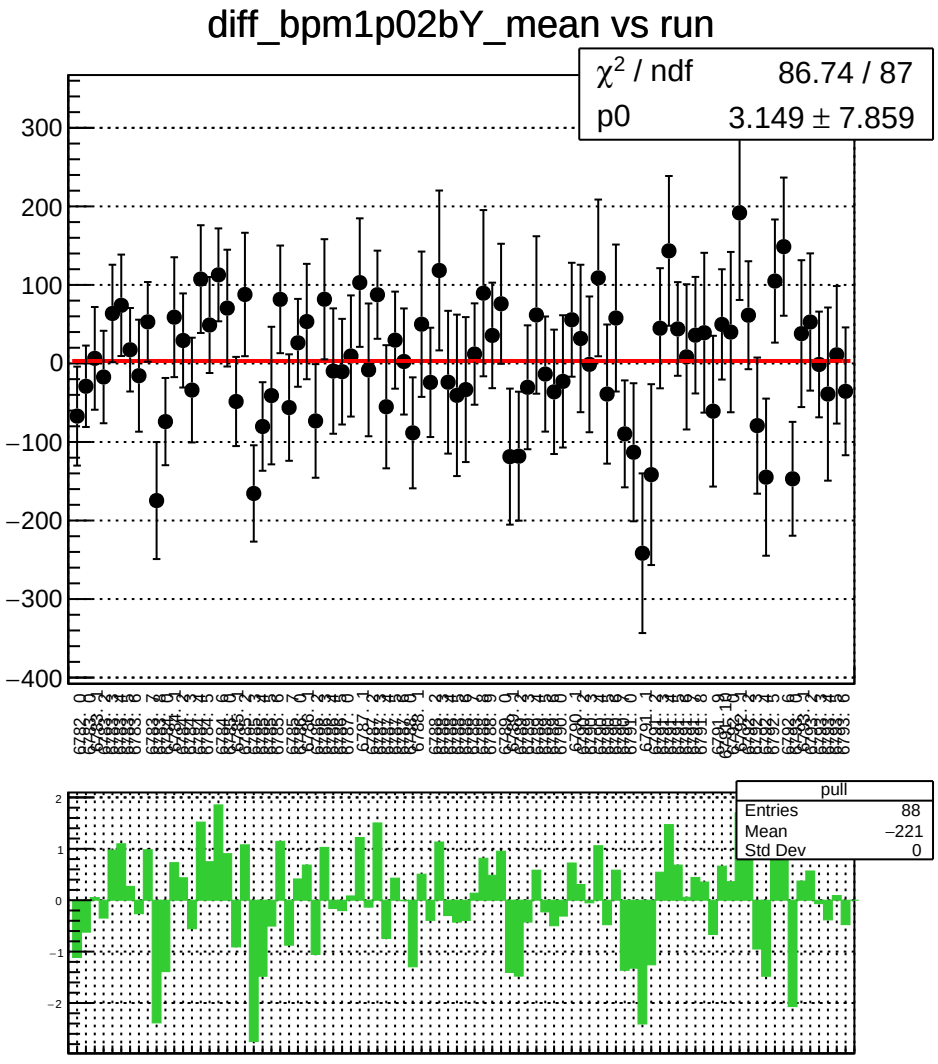

pull1D
Entries 88
Mean −0.004916
Std Dev 1.062

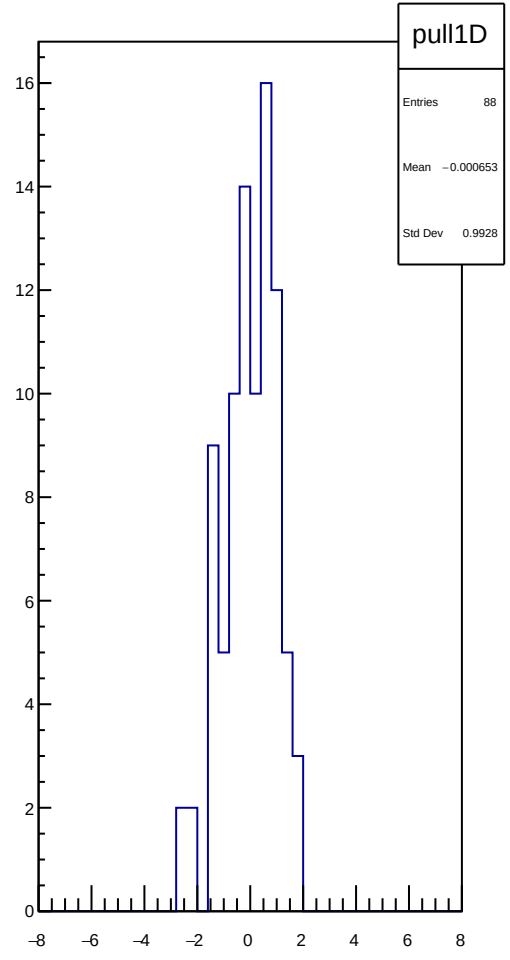

diff_bpm16Y_rms vs run
χ² / ndf 8174 / 87
p0 4582 ± 3.57
5400
5200
5000
4800
4600
4400
4200
4000

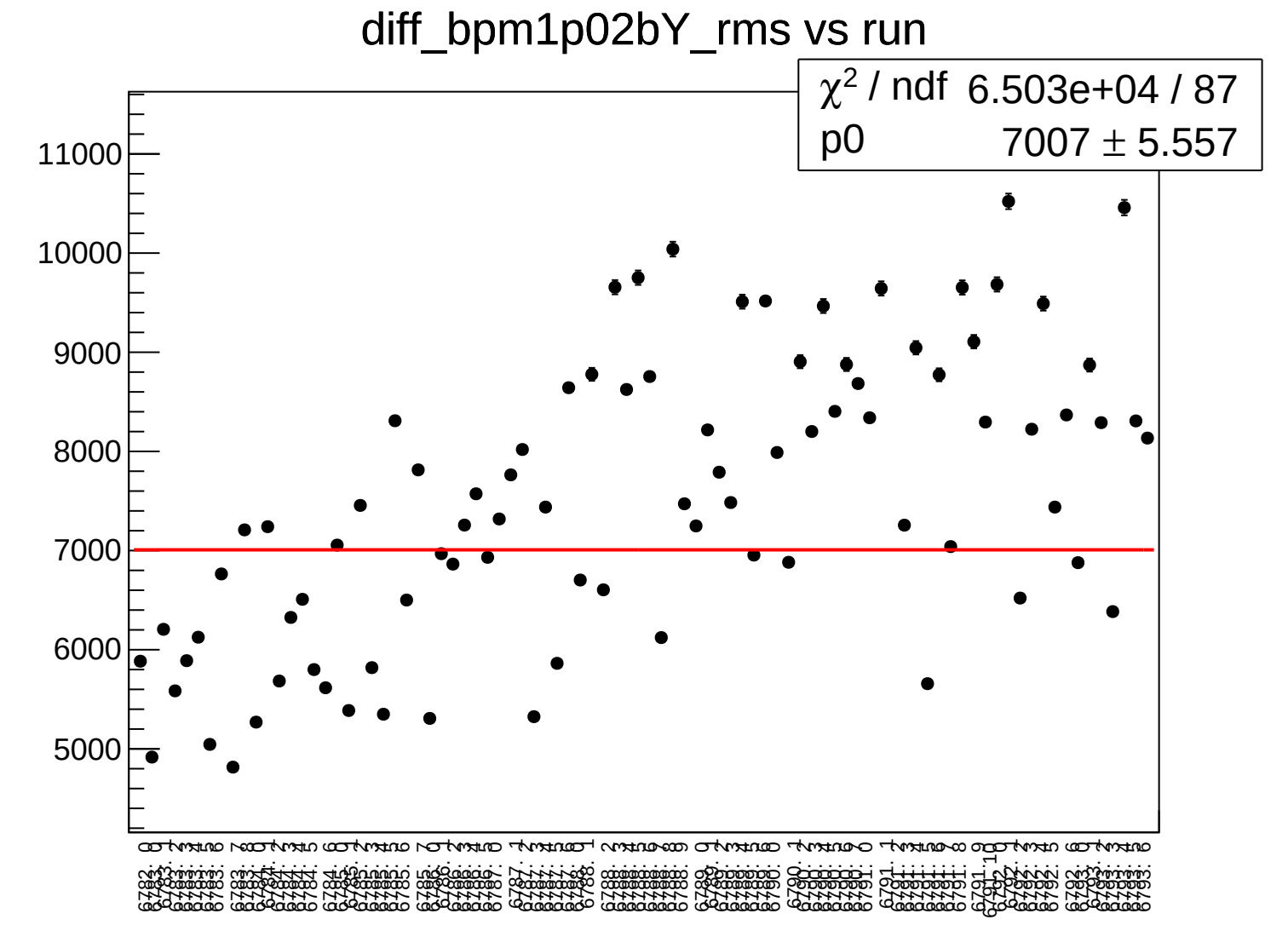

diff_bpm1p02bX_mean vs run
χ^2 / ndf 82.18 / 87
p0 −2.005 ± 1.178
40
20
0
−20
−40
pull
Entries 88
Mean 781.7
Std Dev 0
3
2
1
0
−1
−2

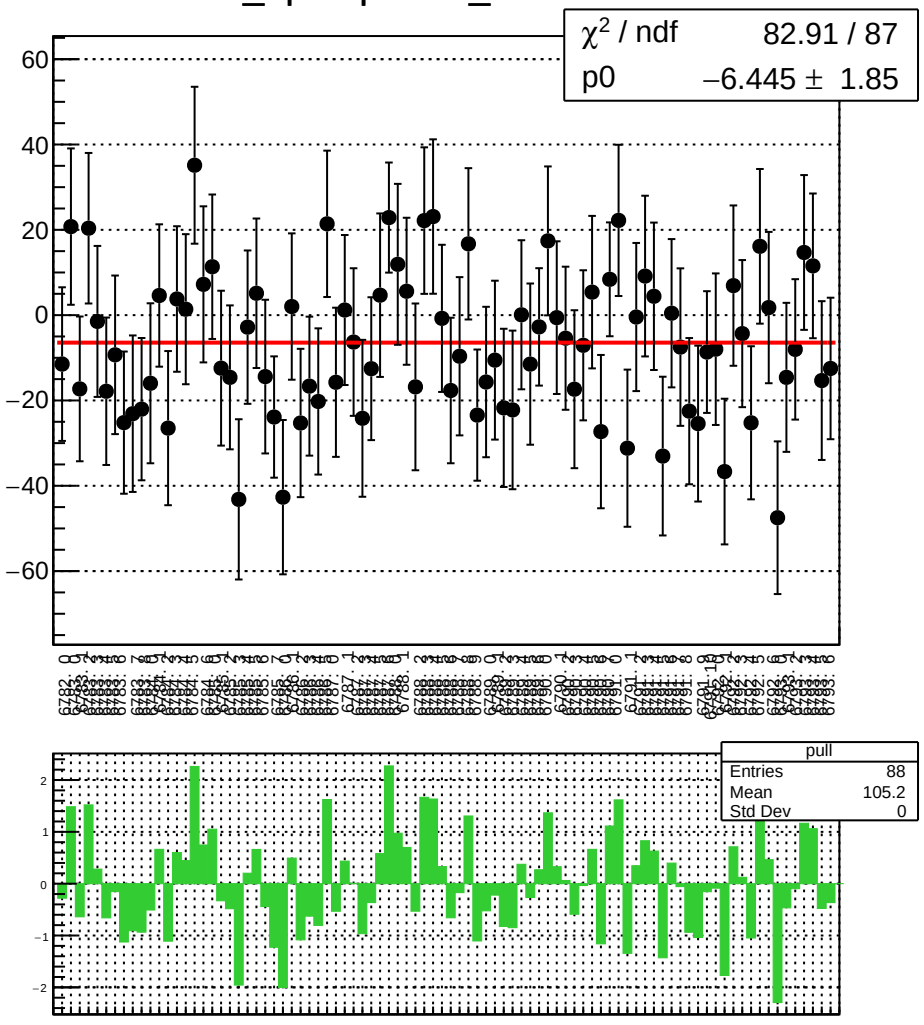

pull1D
Entries 88
Mean −0.008128
Std Dev 0.9664
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

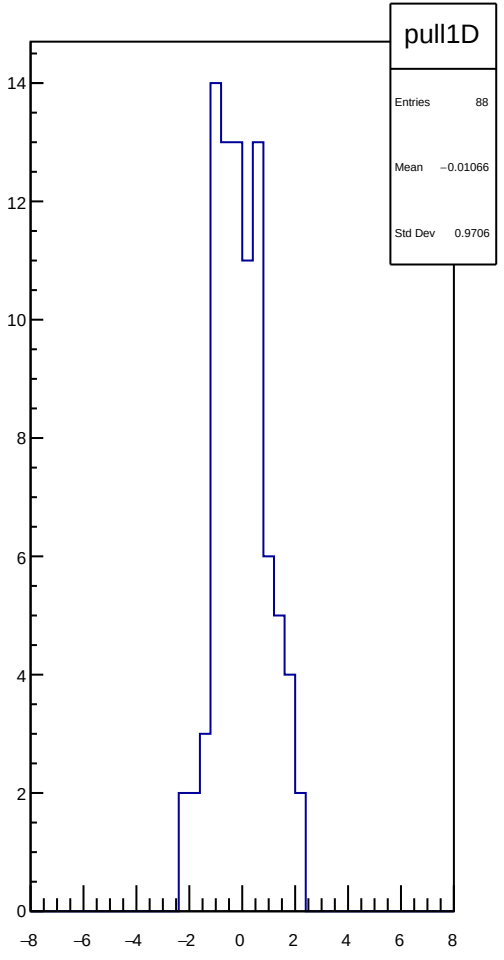

diff_bpm1p02bX_rms vs run
χ² / ndf 2012 / 87
p0 1071 ± 0.8332
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

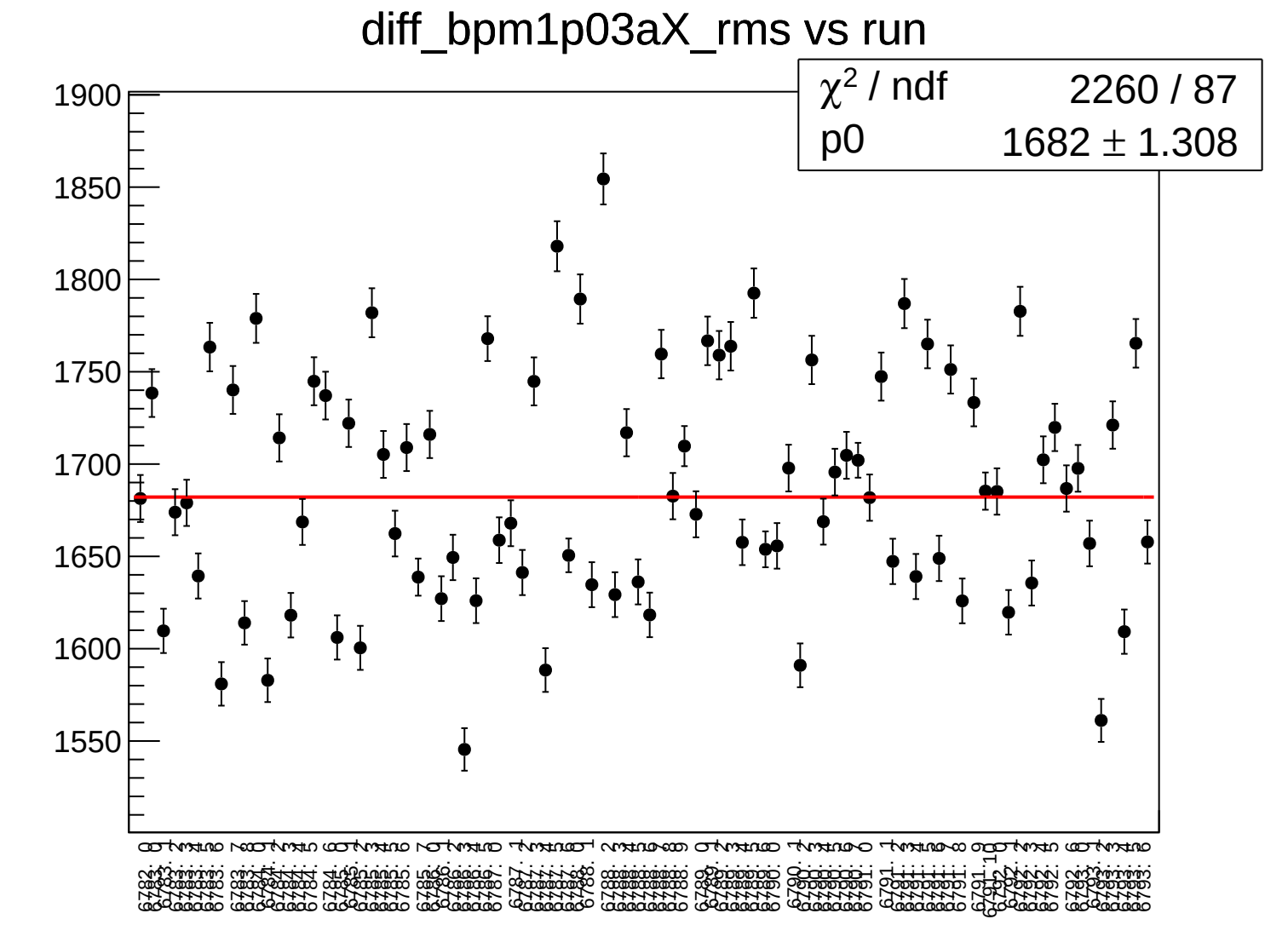

diff_bpm1p02bY_mean vs run
χ² / ndf 86.74 / 87
p0 3.149 ± 7.859
pull
Entries 88
Mean −221
Std Dev 0

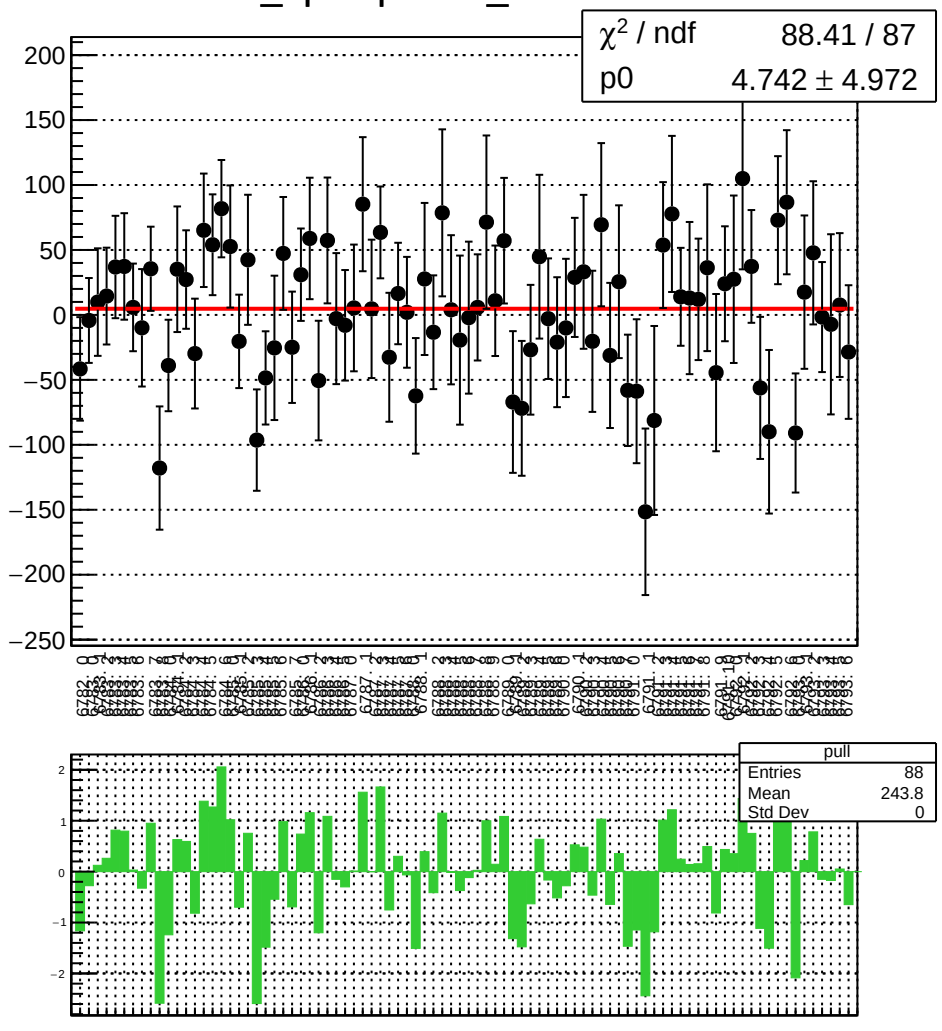

pull1D
Entries 88
Mean −0.000653
Std Dev 0.9928

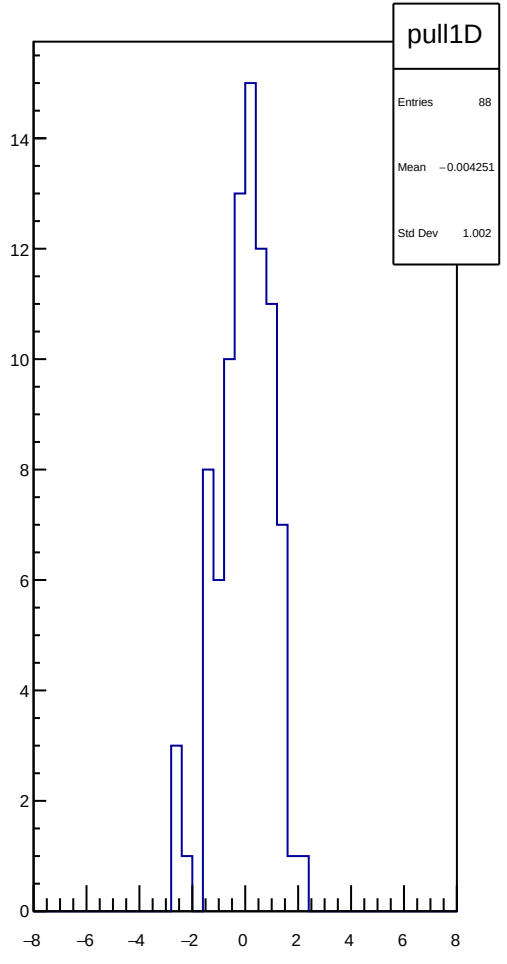

diff_bpm1p02bY_rms vs run
χ² / ndf 6.503e+04 / 87
p0 7007 ± 5.557
11000
10000
9000
8000
7000
6000
5000

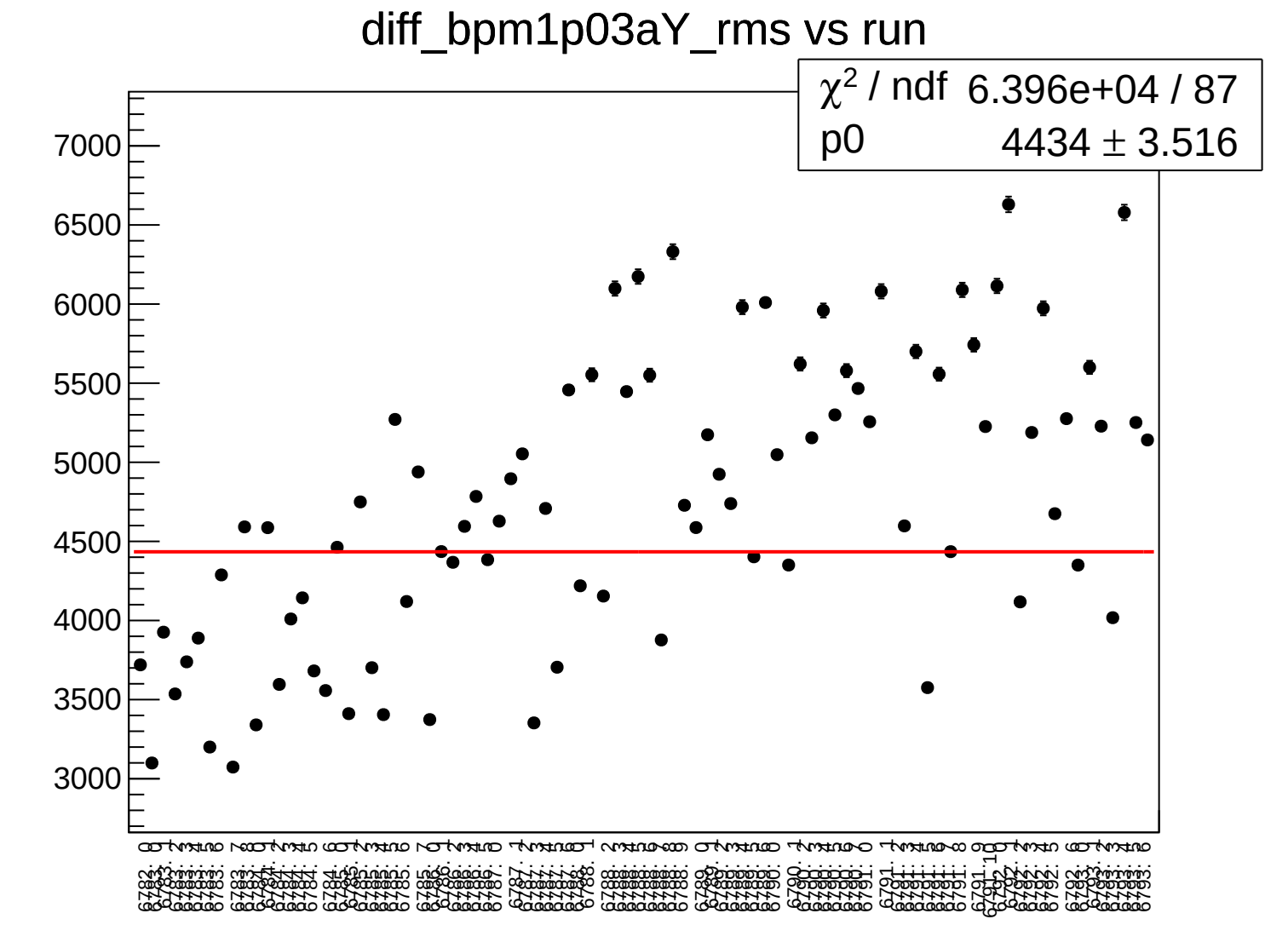

diff_bpm1p03aX_mean vs run
χ² / ndf 82.91 / 87
p0 −6.445 ± 1.85
pull
Entries 88
Mean 105.2
Std Dev 0

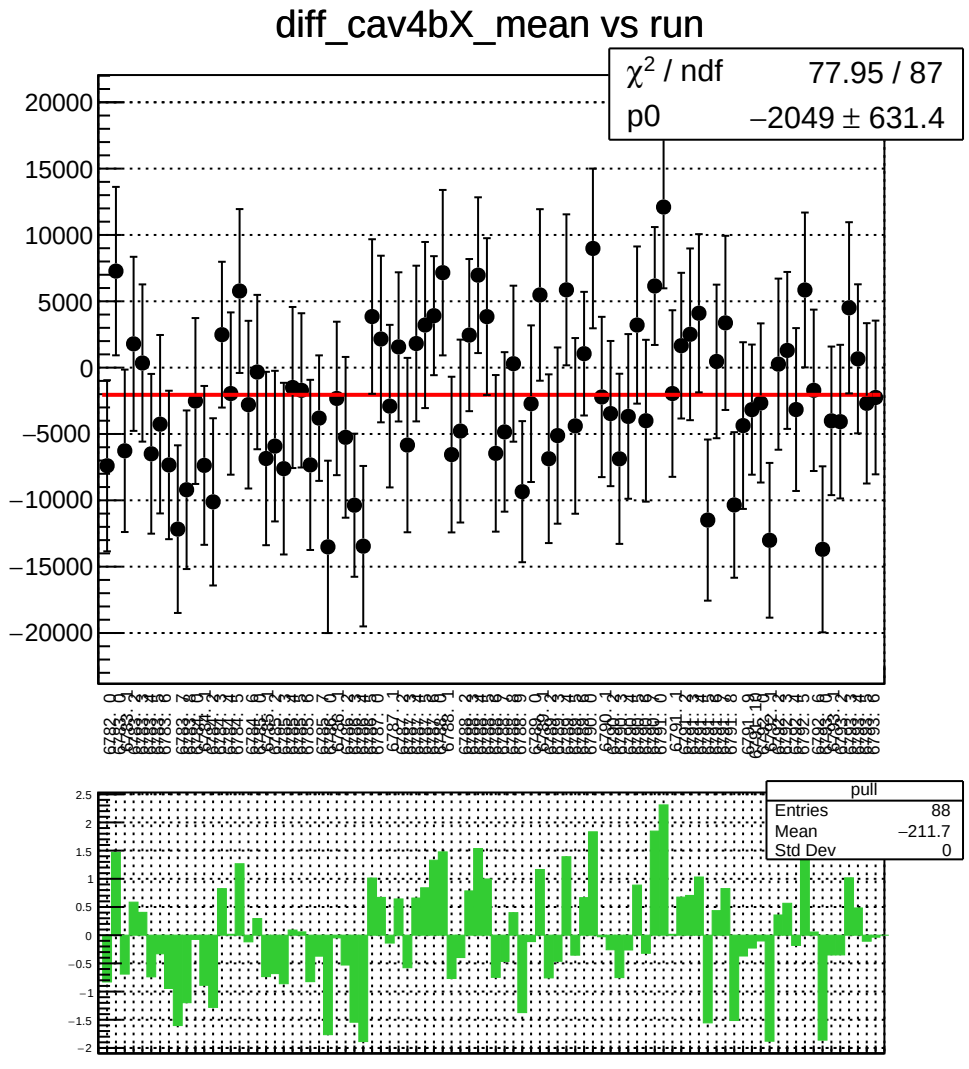

pull1D
Entries 88
Mean −0.01066
Std Dev 0.9706

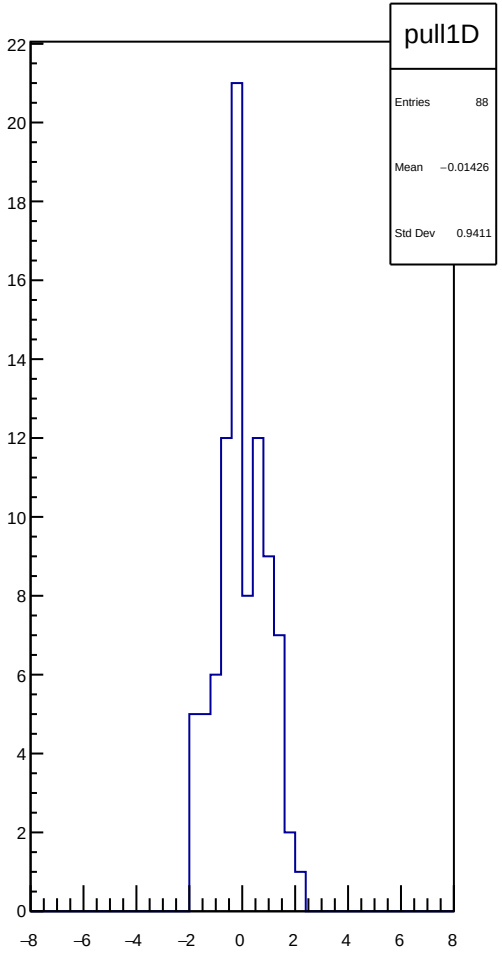

diff_bpm1p03aX_rms vs run
χ² / ndf 2260 / 87
p0 1682 ± 1.308
1900
1850
1800
1750
1700
1650
1600
1550

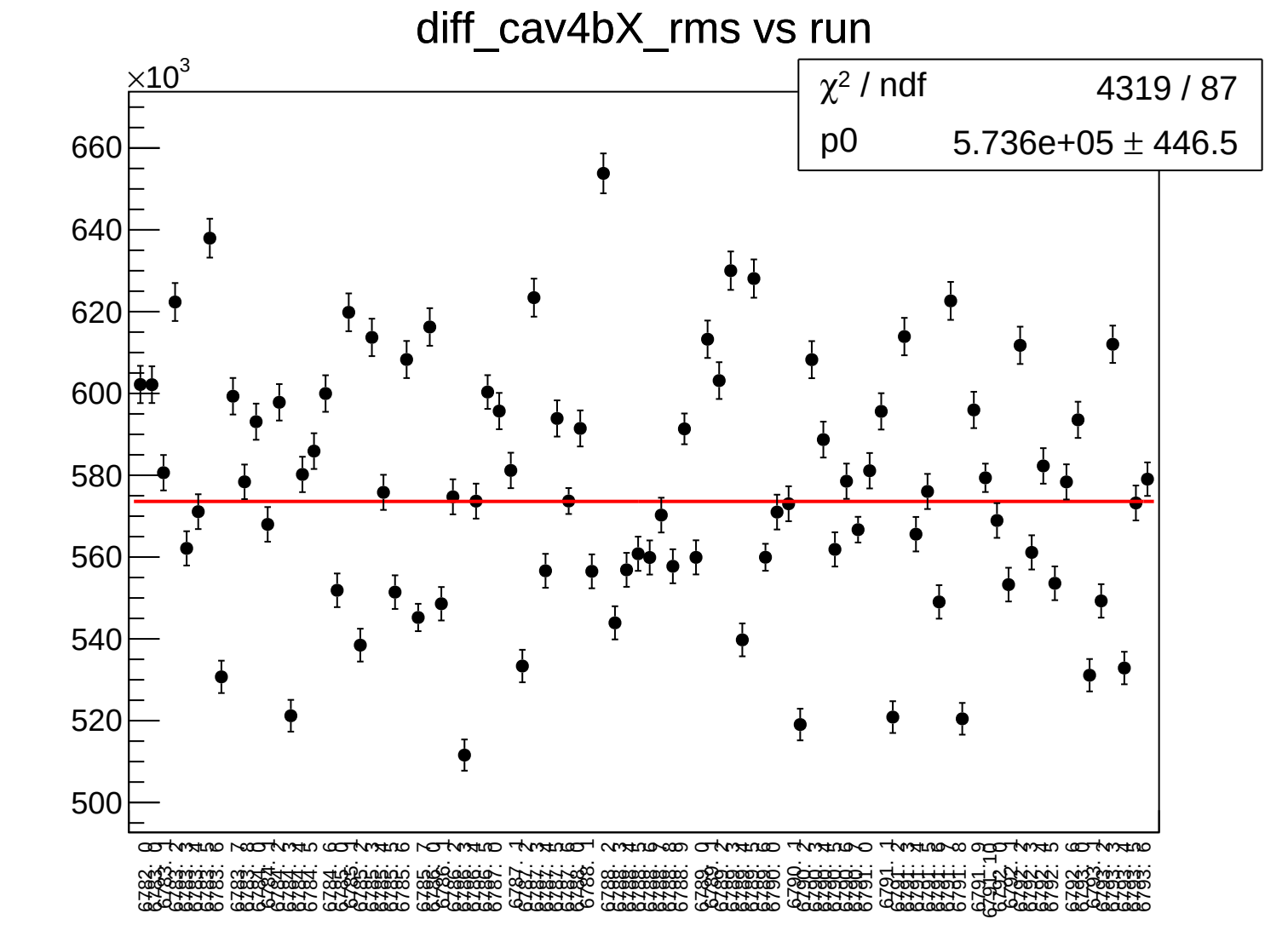

diff_bpm1p03aY_mean vs run
χ^2 / ndf 88.41 / 87
p0 4.742 ± 4.972
pull
Entries 88
Mean 243.8
Std Dev 0

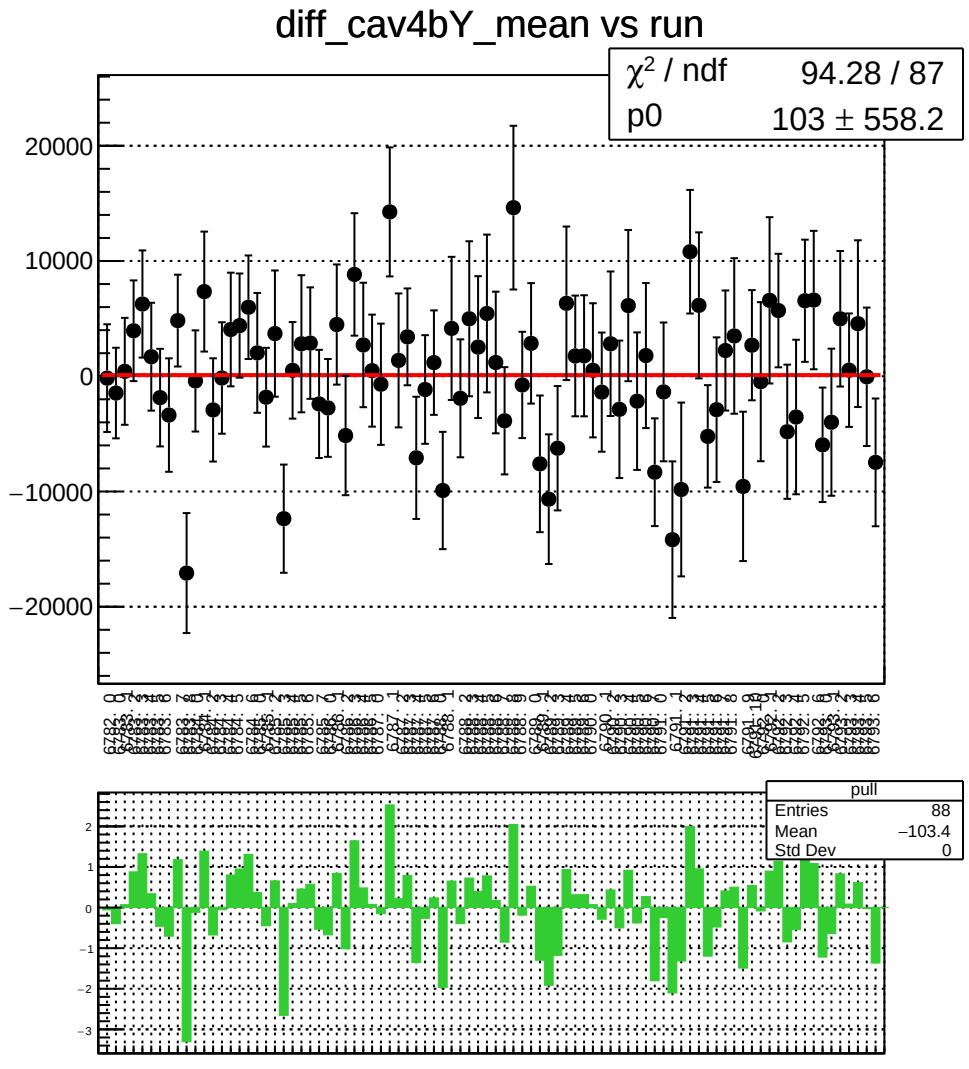

pull1D
Entries 88
Mean −0.004251
Std Dev 1.002

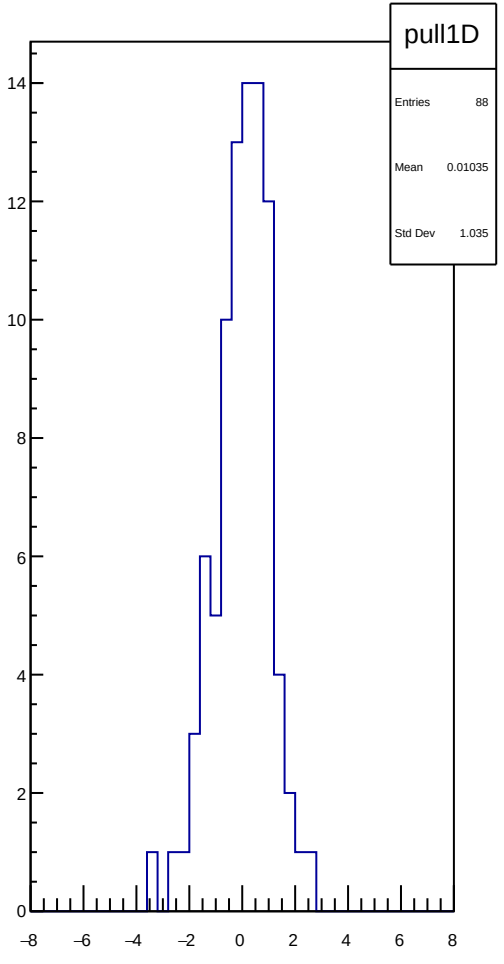

diff_bpm1p03aY_rms vs run
χ² / ndf 6.396e+04 / 87
p0 4434 ± 3.516
7000
6500
6000
5500
5000
4500
4000
3500
3000

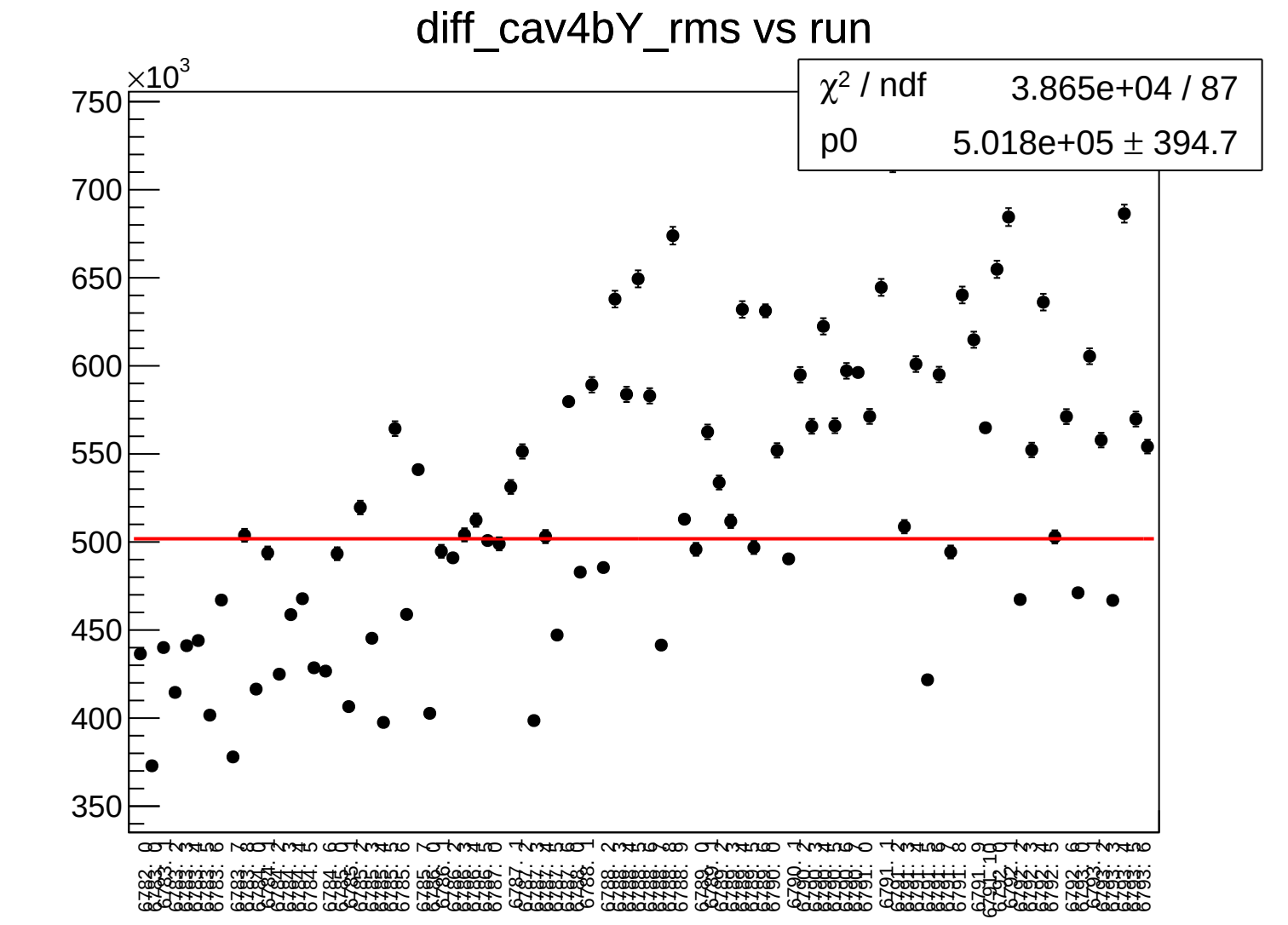

diff_cav4bX_mean vs run
χ² / ndf 77.95 / 87
p0 −2049 ± 631.4
pull
Entries 88
Mean −211.7
Std Dev 0

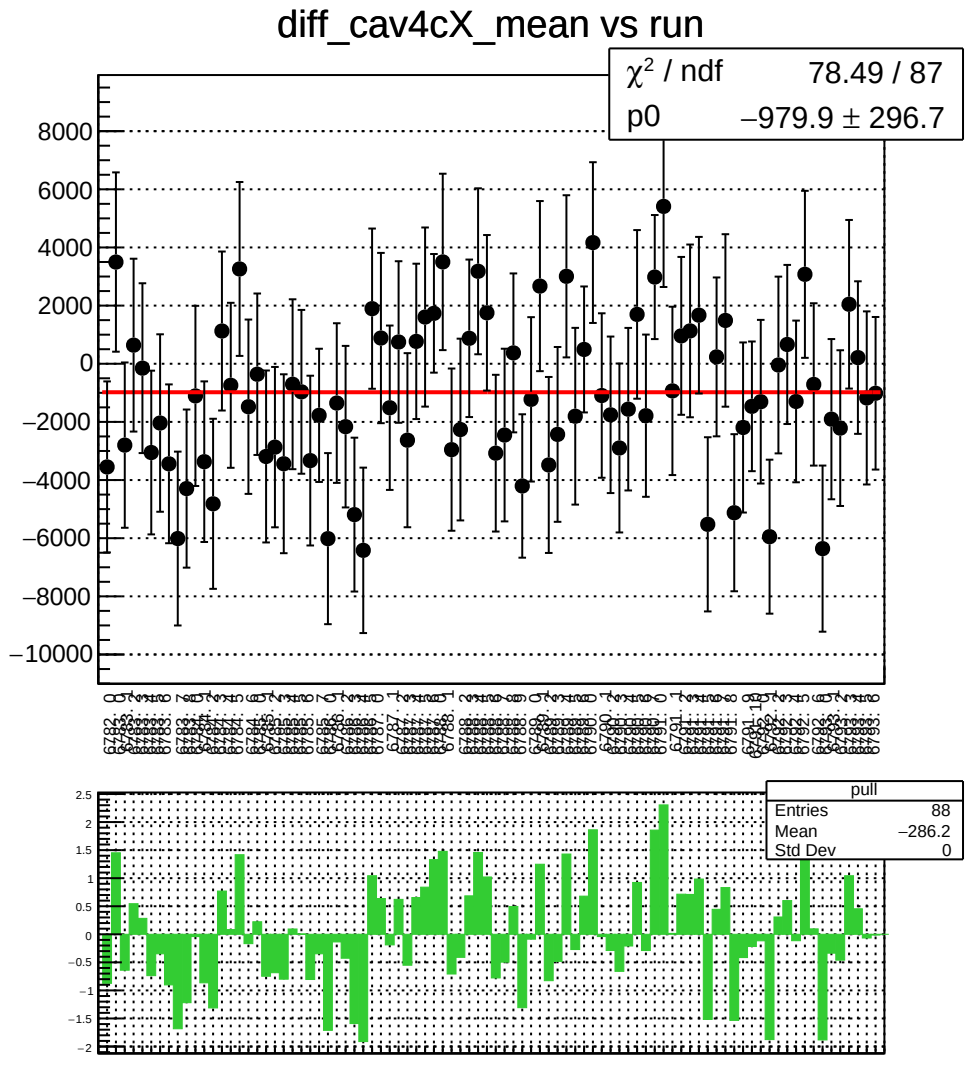

pull1D
Entries 88
Mean −0.01426
Std Dev 0.9411

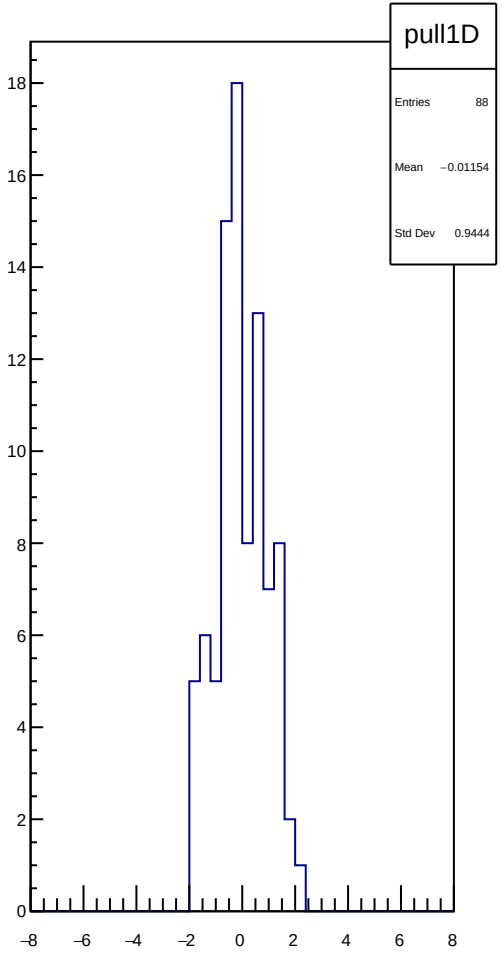

diff_cav4bX_rms vs run
×10^3
χ² / ndf 4319 / 87
p0 5.736e+05 ± 446.5
660
640
620
600
580
560
540
520
500

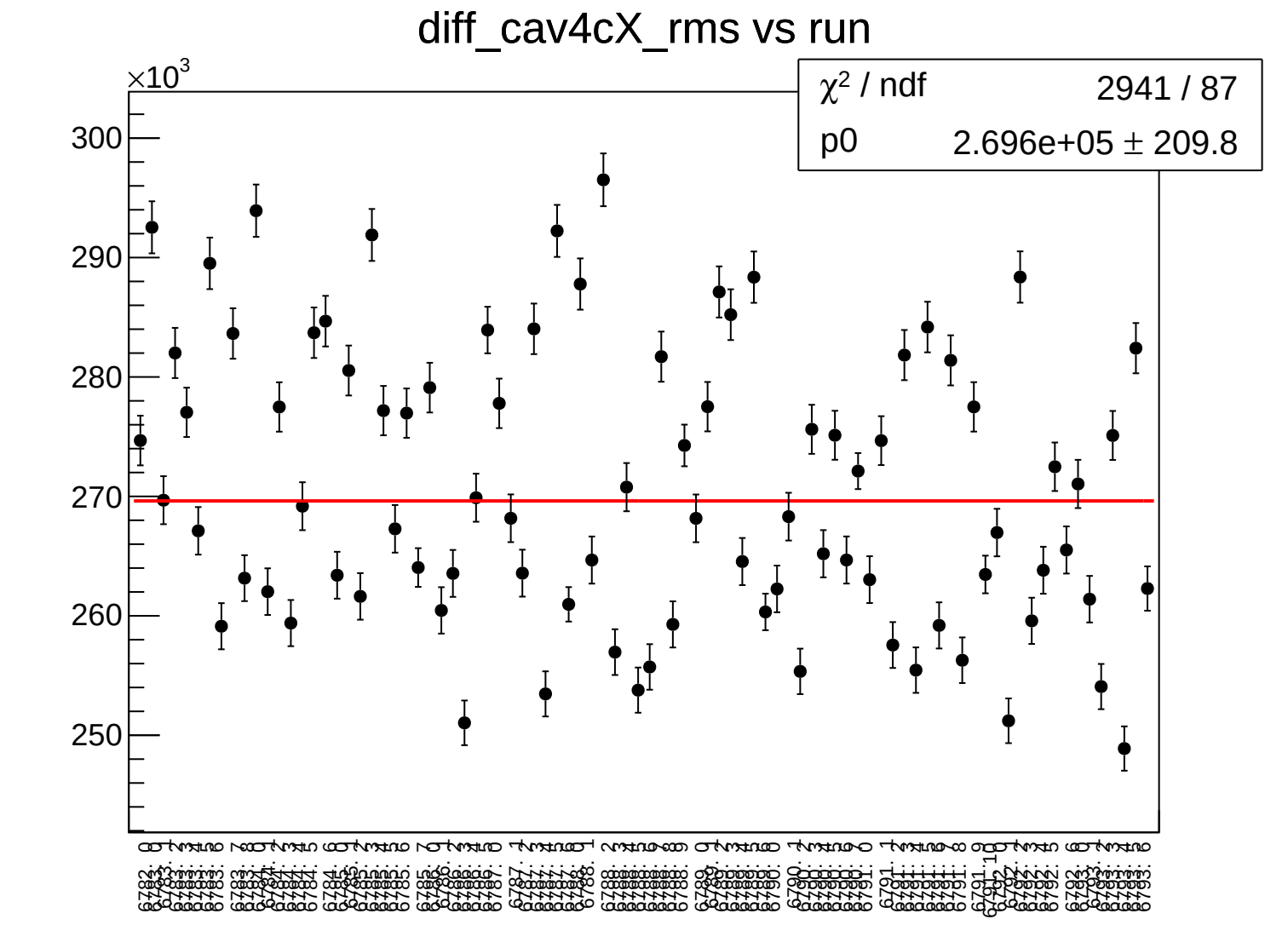

diff_cav4bY_mean vs run
χ² / ndf 94.28 / 87
p0 103 ± 558.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −103.4
Std Dev 0
2
1
0
−1
−2
−3

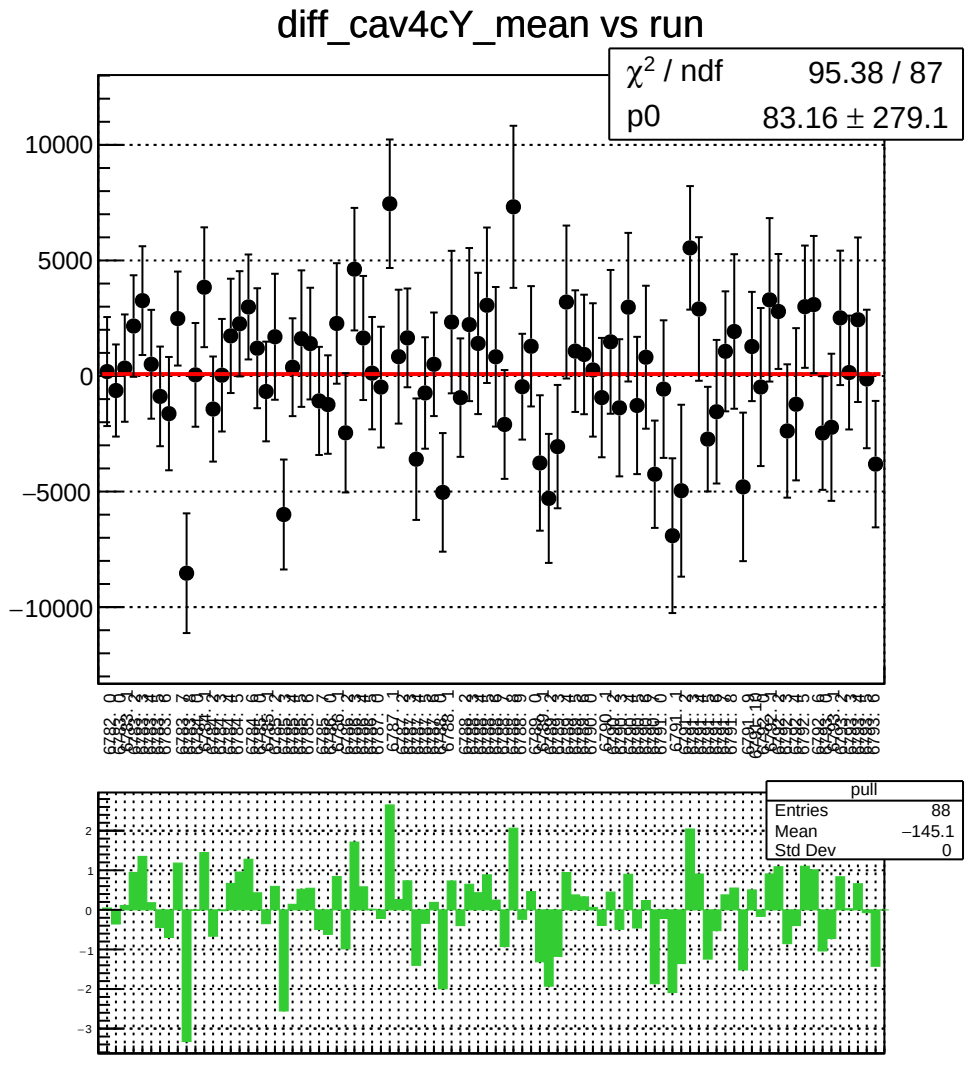

pull1D
Entries 88
Mean 0.01035
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

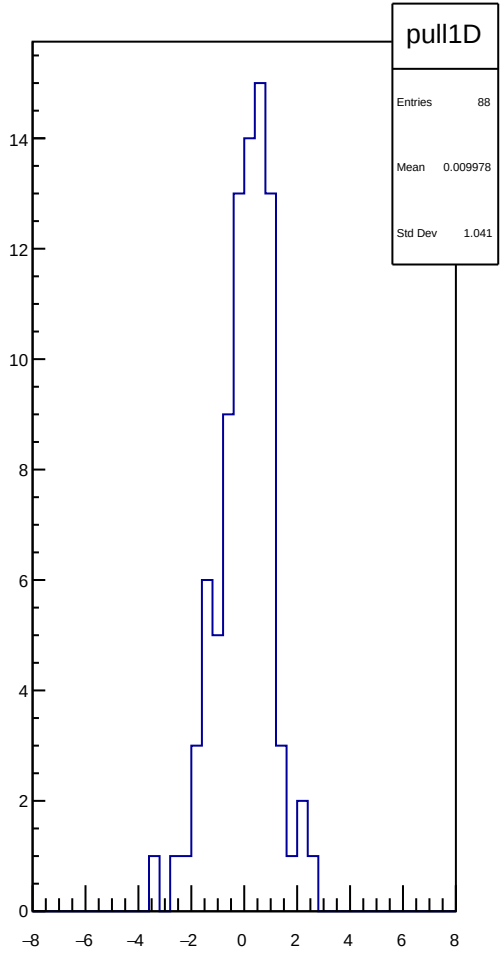

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 3.865e+04 / 87
p0 5.018e+05 ± 394.7
750
700
650
600
550
500
450
400
350

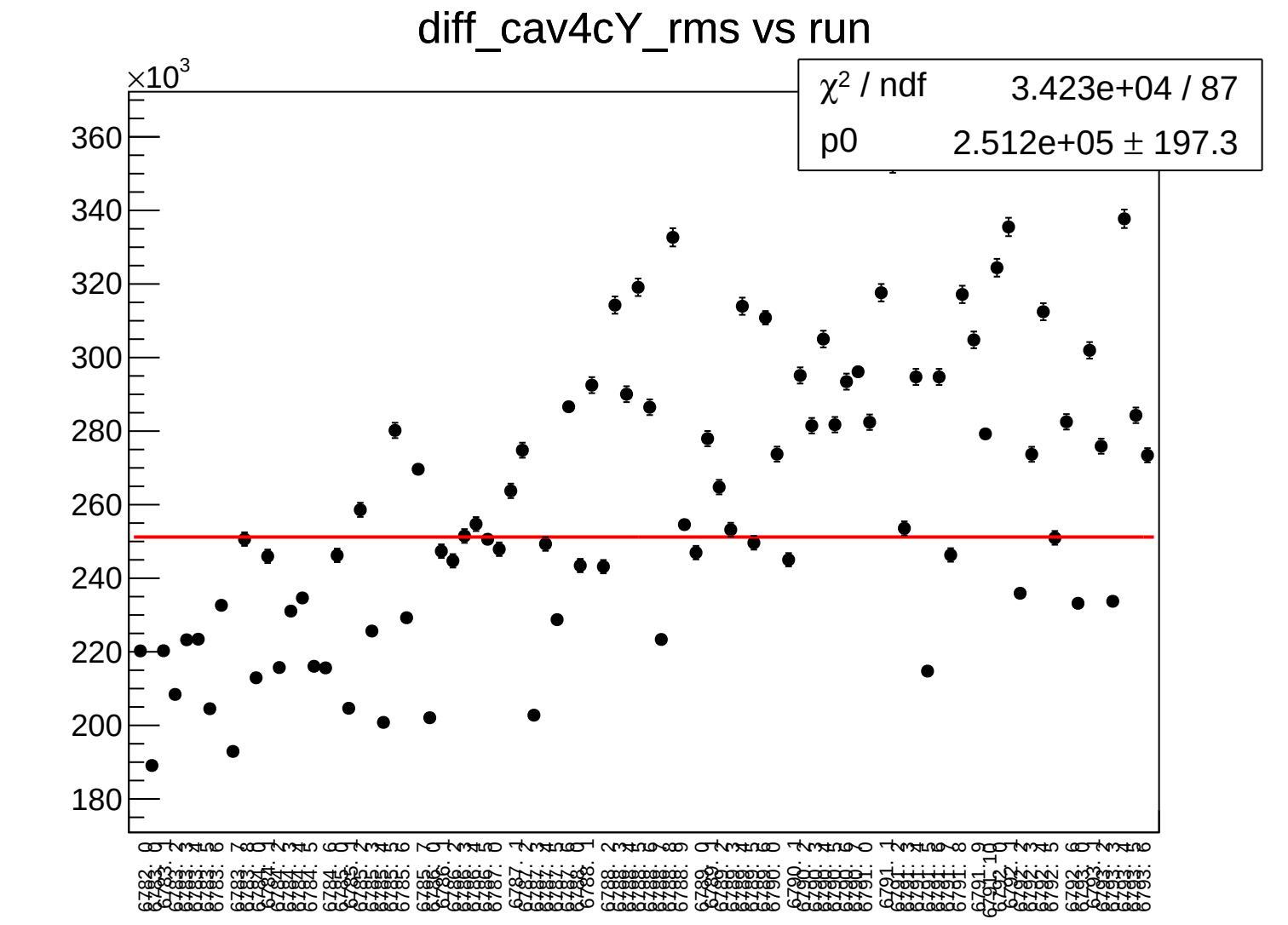

diff_cav4cX_mean vs run
χ² / ndf 78.49 / 87
p0 −979.9 ± 296.7
pull
Entries 88
Mean −286.2
Std Dev 0

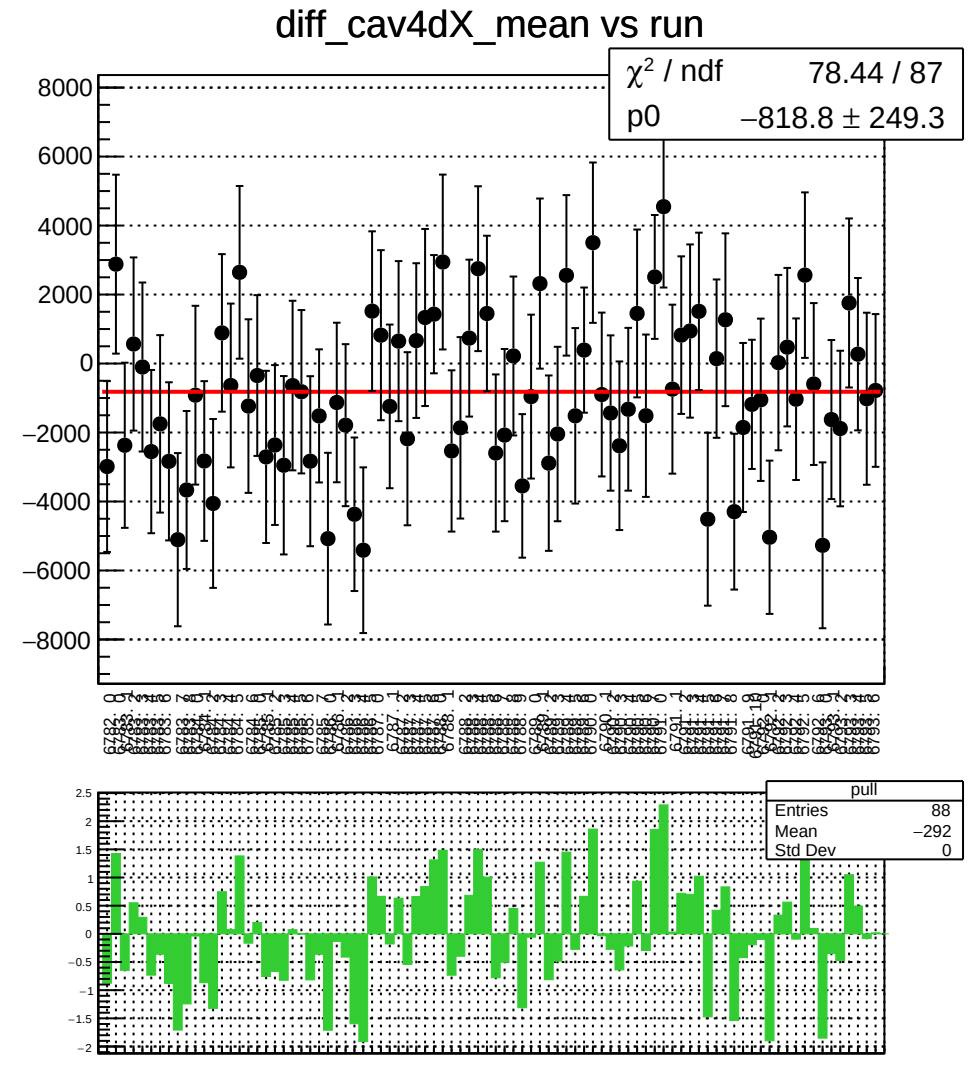

pull1D
Entries 88
Mean −0.01154
Std Dev 0.9444

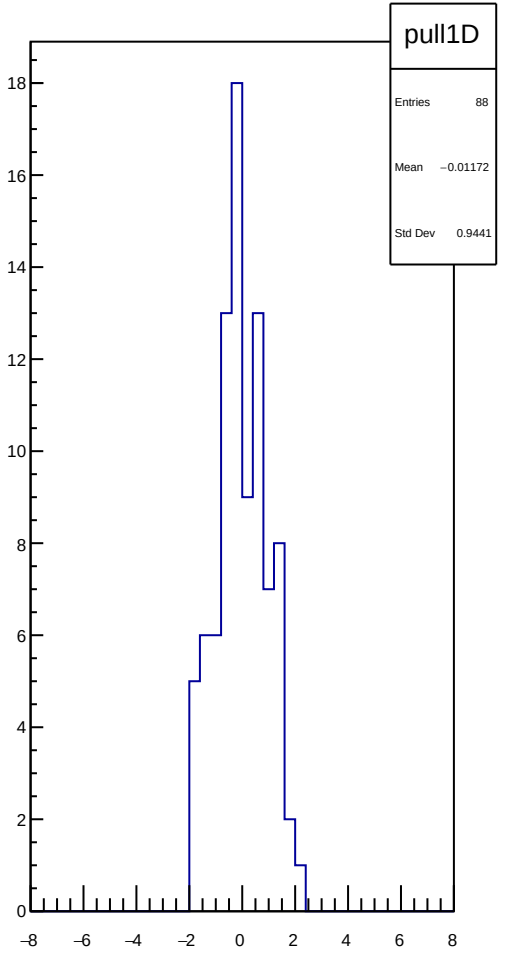

diff_cav4cX_rms vs run
×10^3
χ² / ndf 2941 / 87
p0 2.696e+05 ± 209.8
300
290
280
270
260
250

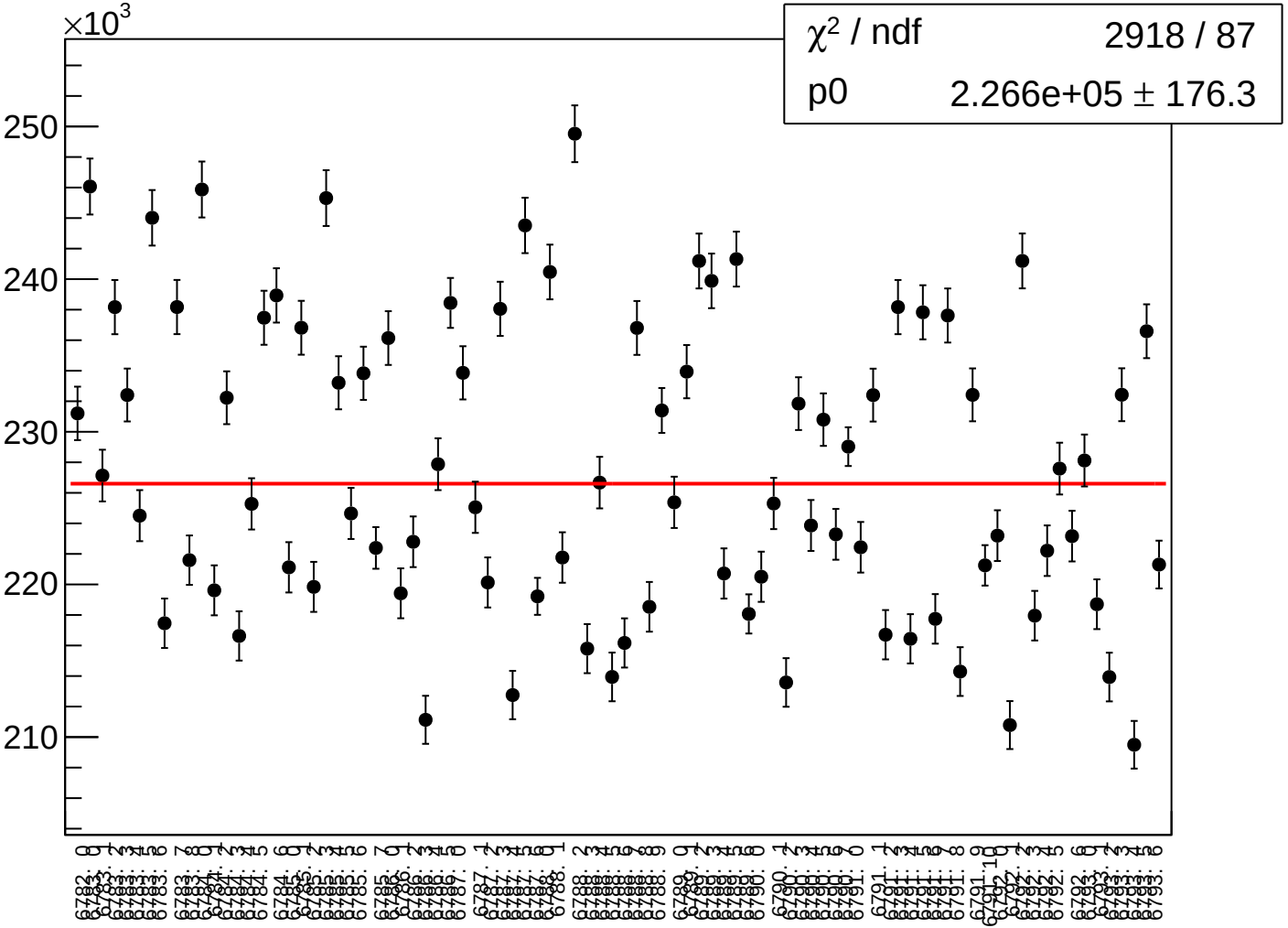

diff_cav4cY_mean vs run
χ² / ndf 95.38 / 87
p0 83.16 ± 279.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −145.1
Std Dev 0
2
1
0
−1
−2
−3

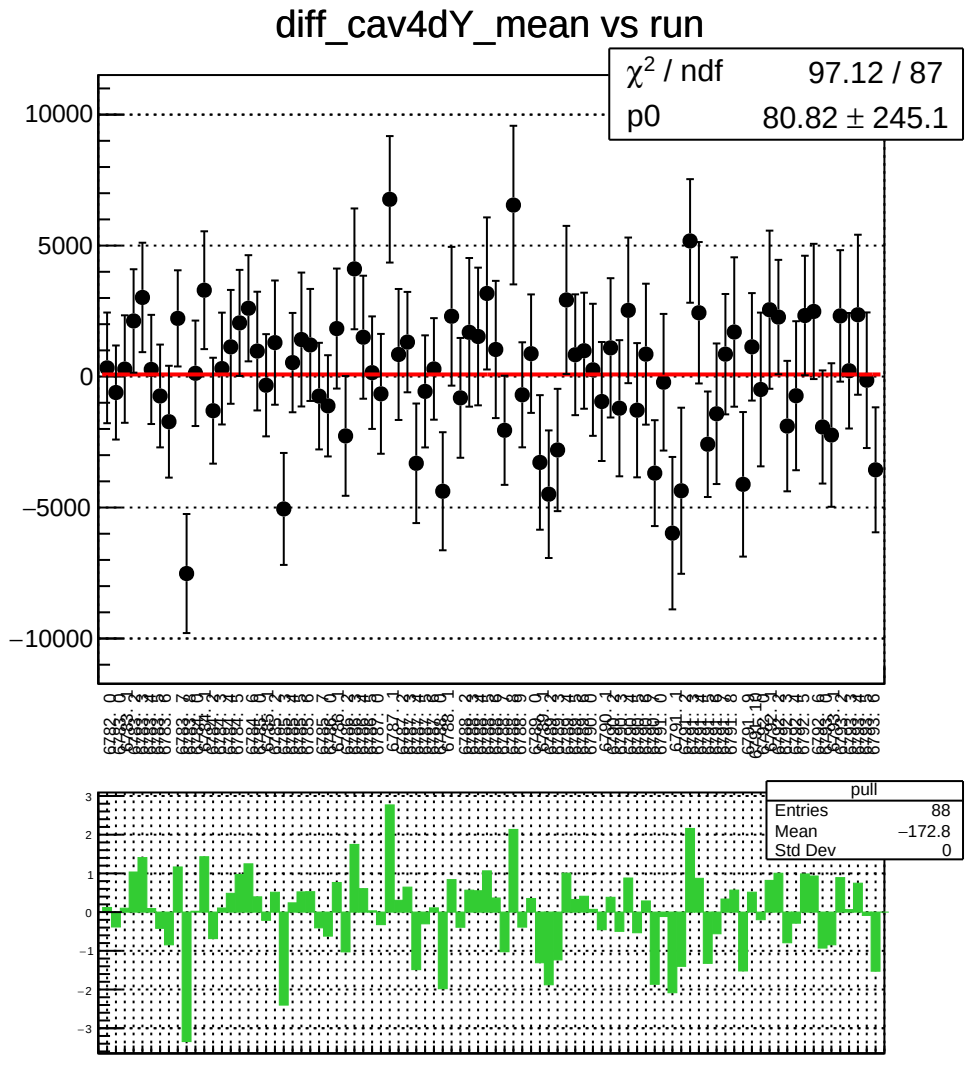

pull1D
Entries 88
Mean 0.009978
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

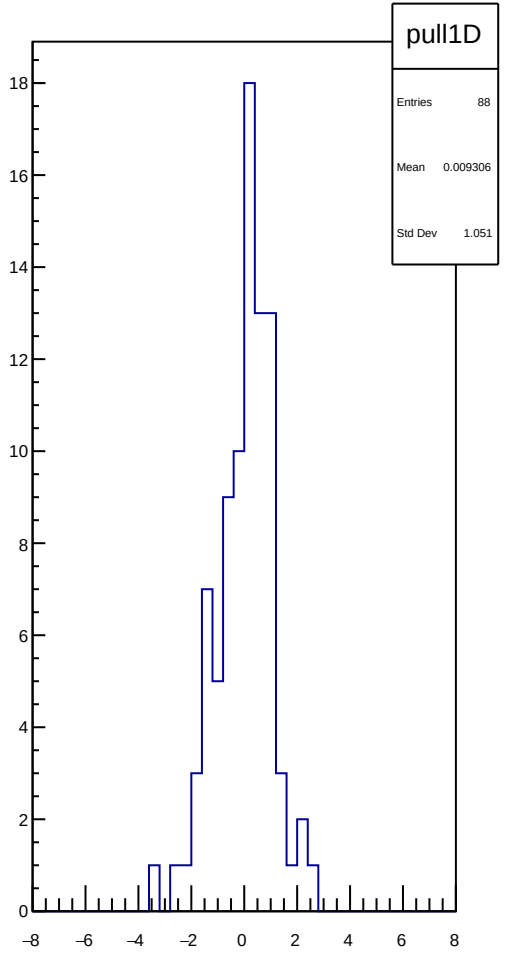

diff_cav4cY_rms vs run
×10^3
360
340
320
300
280
260
240
220
200
180
χ² / ndf 3.423e+04 / 87
p0 2.512e+05 ± 197.3

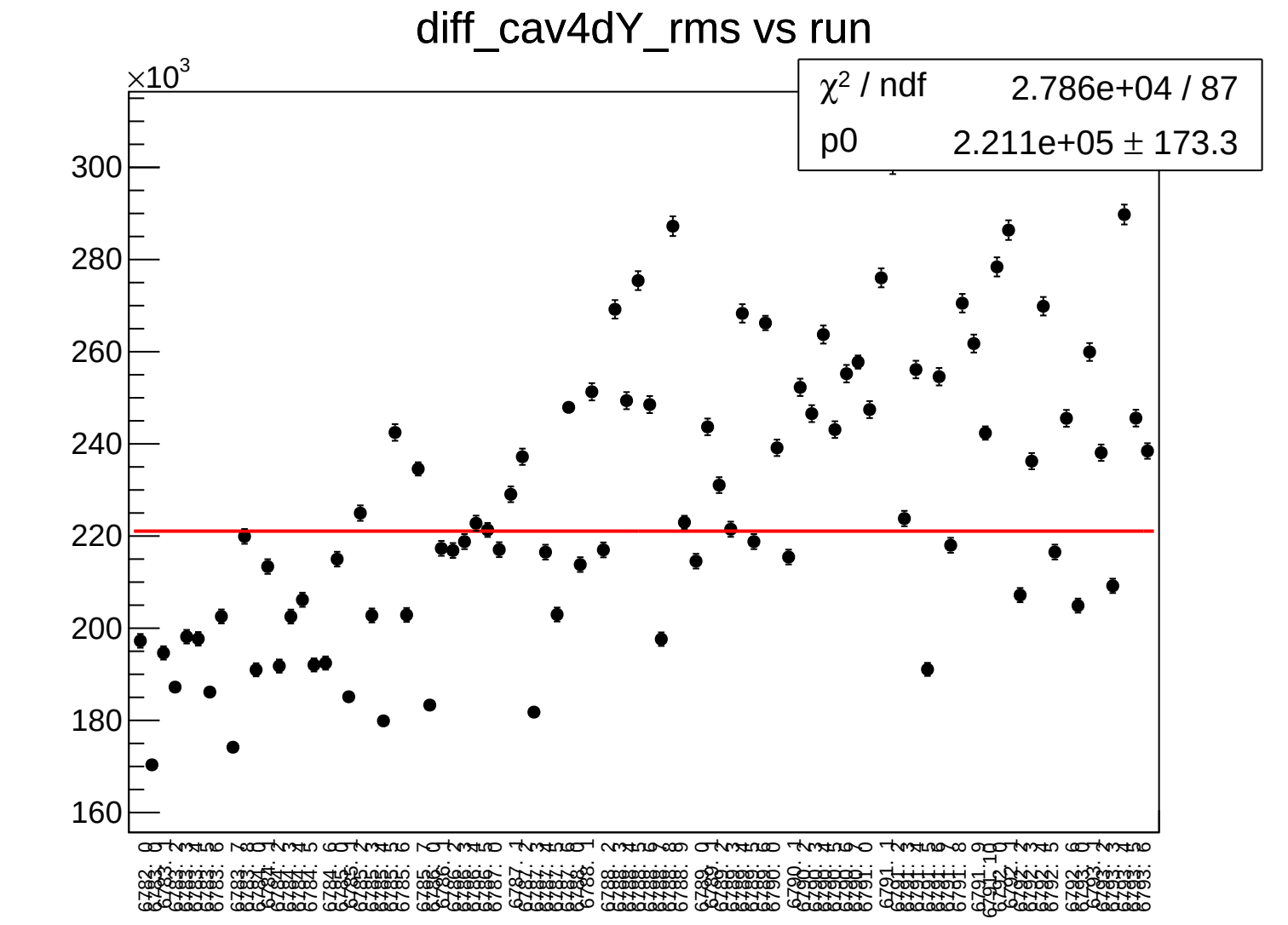

diff_cav4dX_mean vs run
χ² / ndf 78.44 / 87
p0 −818.8 ± 249.3
pull
Entries 88
Mean −292
Std Dev 0

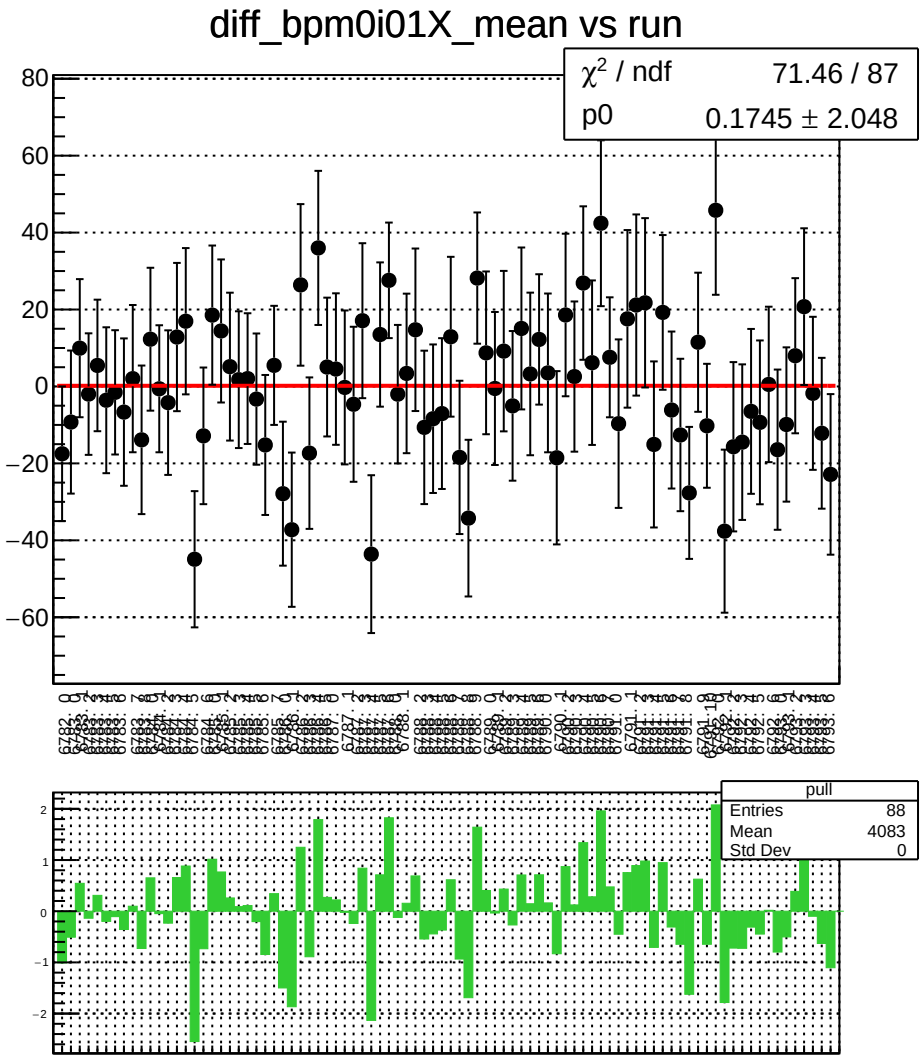

pull1D
Entries 88
Mean −0.01172
Std Dev 0.9441

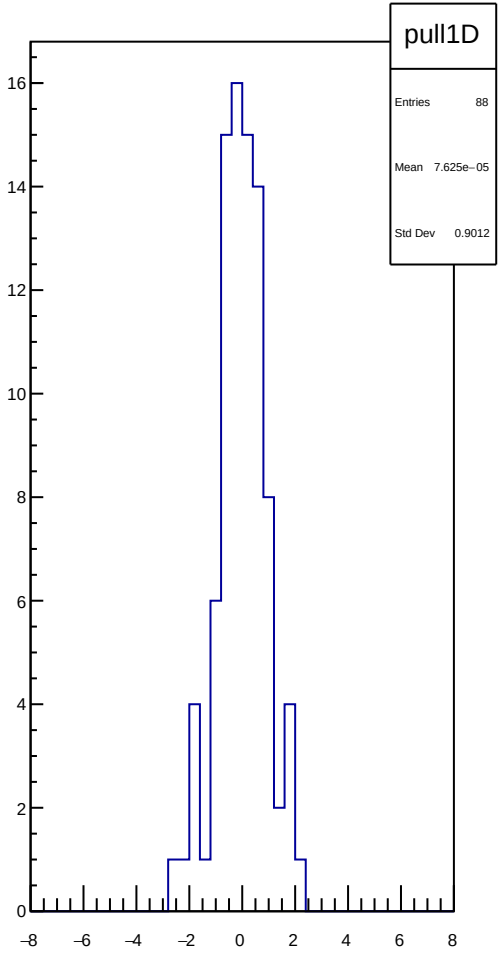

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2918 / 87
p0 2.266e+05 ± 176.3
250
240
230
220
210

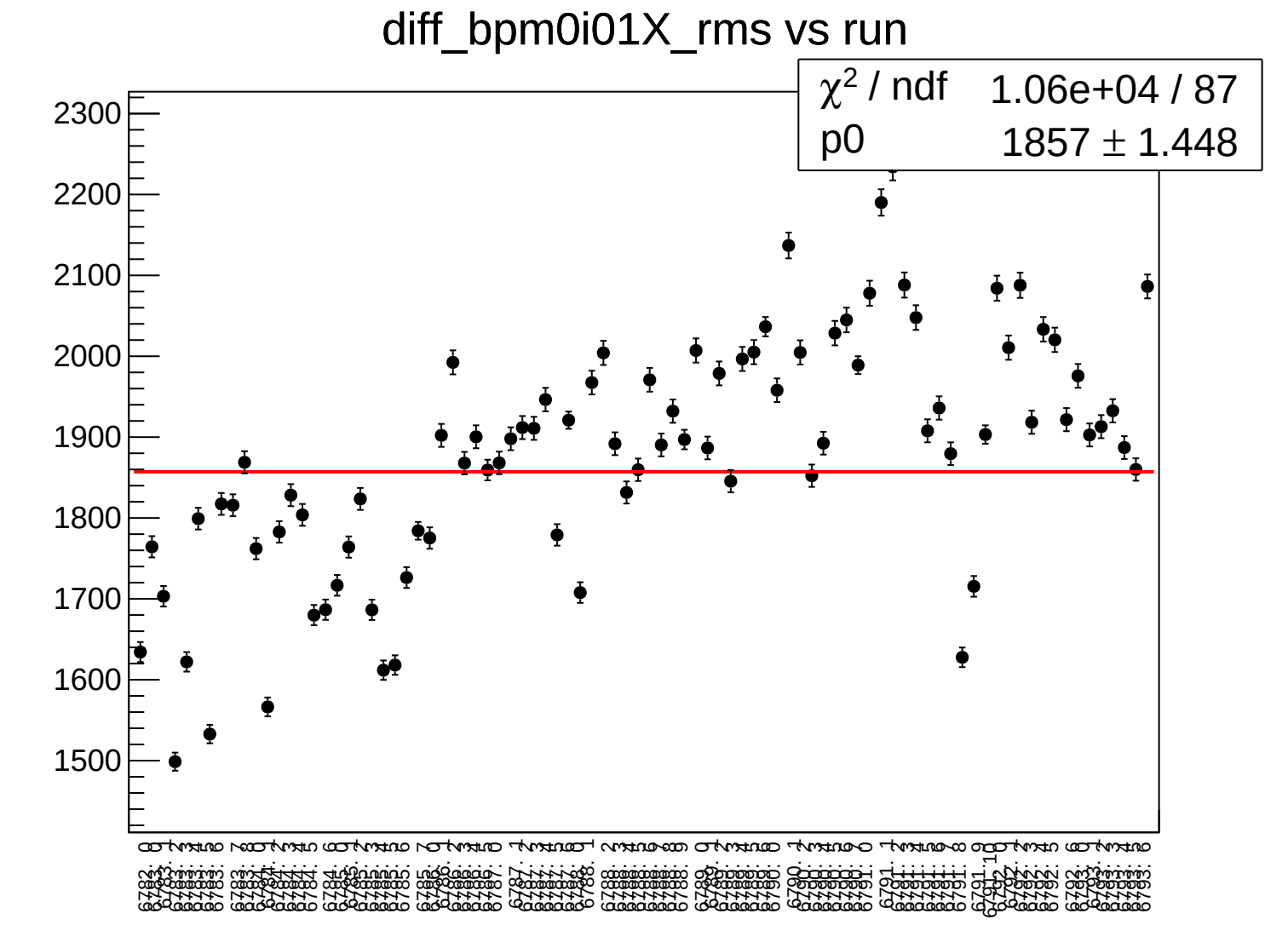

diff_cav4dY_mean vs run
χ² / ndf 97.12 / 87
p0 80.82 ± 245.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −172.8
Std Dev 0
3
2
1
0
−1
−2
−3

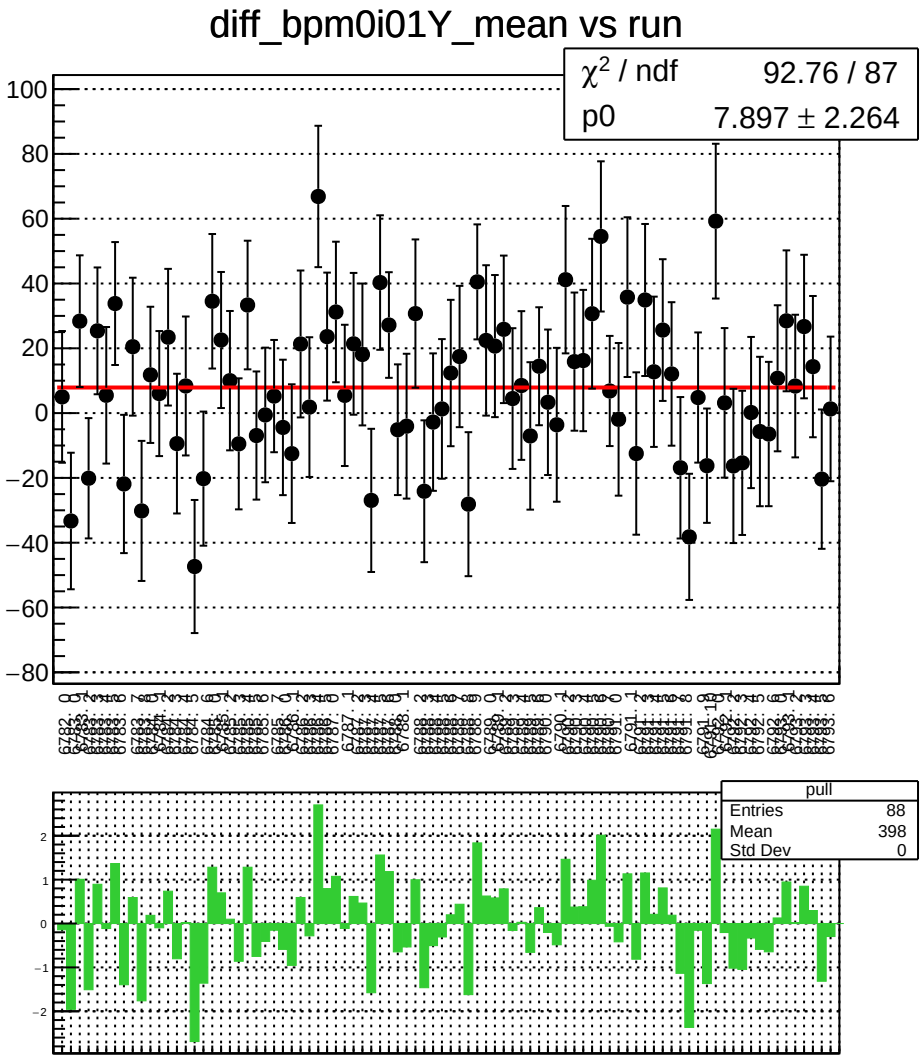

pull1D
Entries 88
Mean 0.009306
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

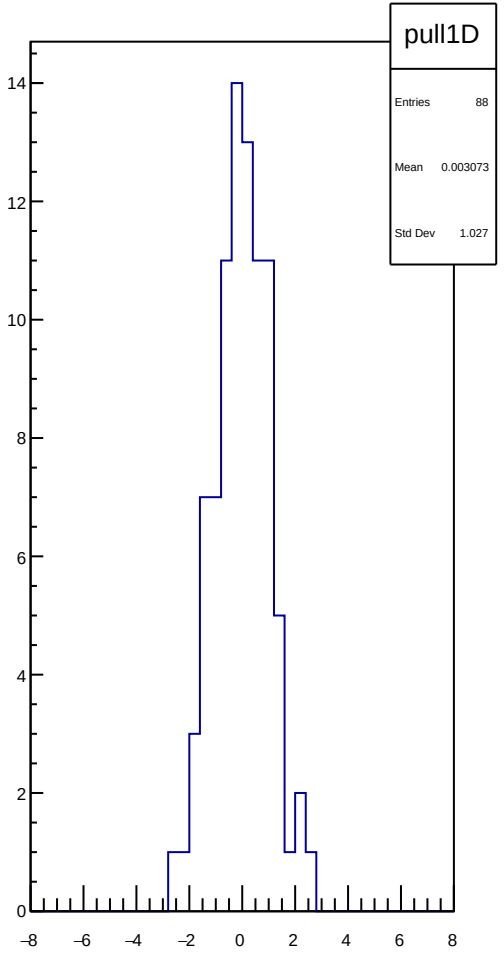

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2.786e+04 / 87
p0 2.211e+05 ± 173.3
300
280
260
240
220
200
180
160

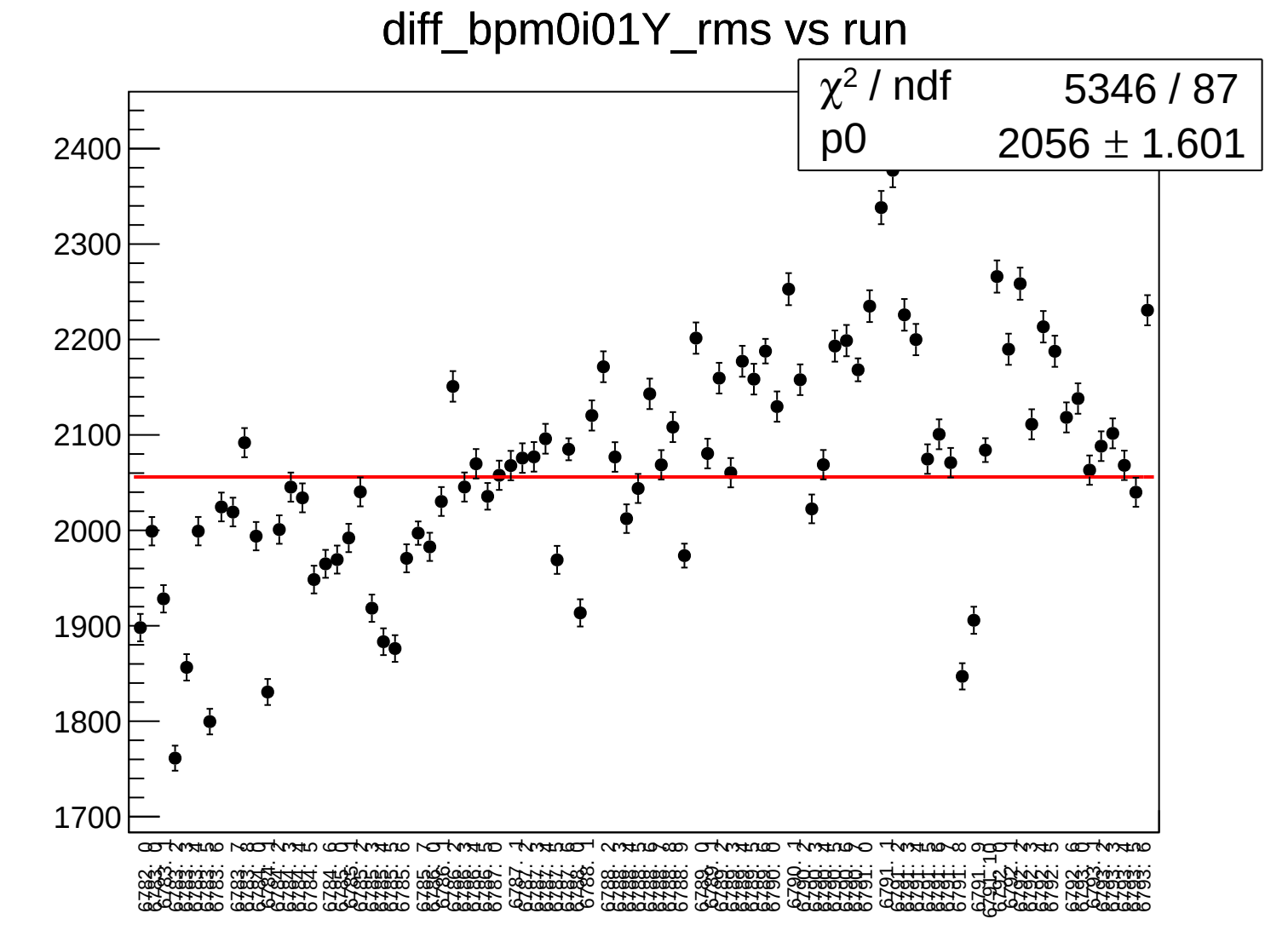

diff_bpm0i01X_mean vs run
χ² / ndf 71.46 / 87
p0 0.1745 ± 2.048
pull
Entries 88
Mean 4083
Std Dev 0

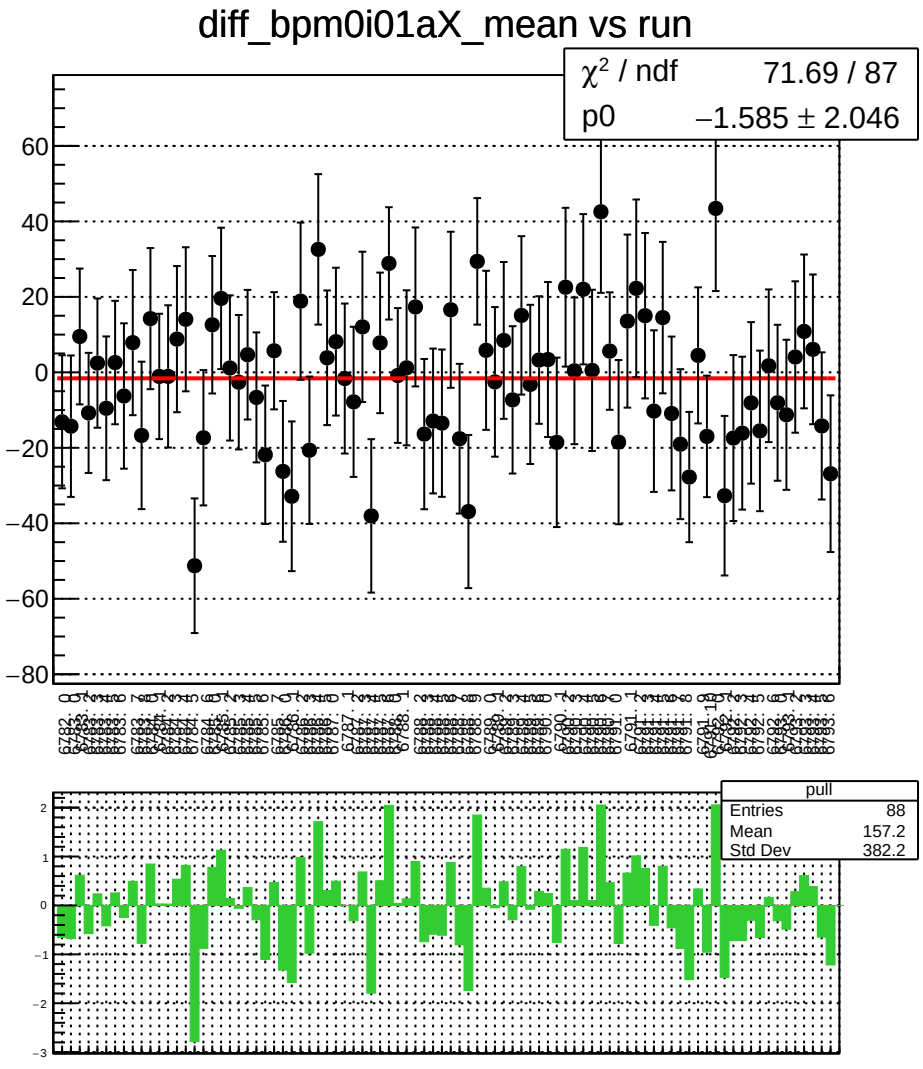

pull1D
Entries 88
Mean 7.625e−05
Std Dev 0.9012

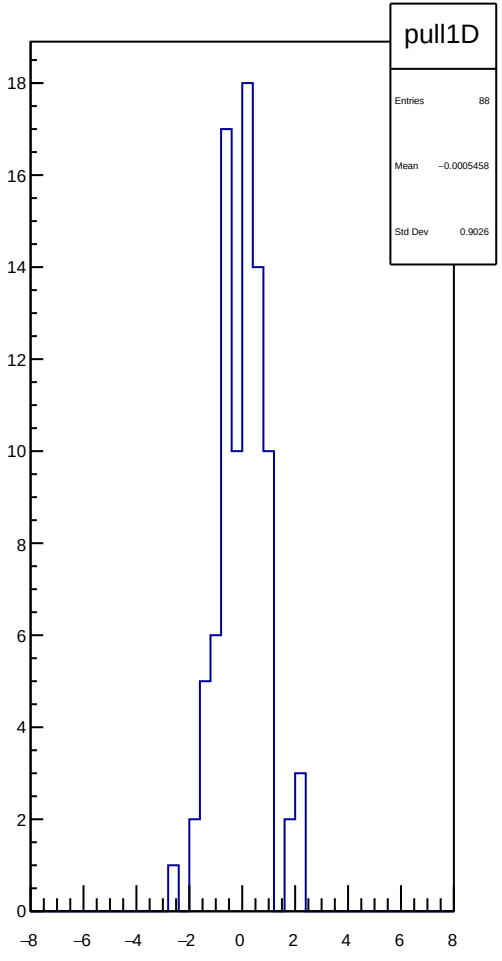

diff_bpm0i01X_rms vs run
χ² / ndf 1.06e+04 / 87
p0 1857 ± 1.448
2300
2200
2100
2000
1900
1800
1700
1600
1500

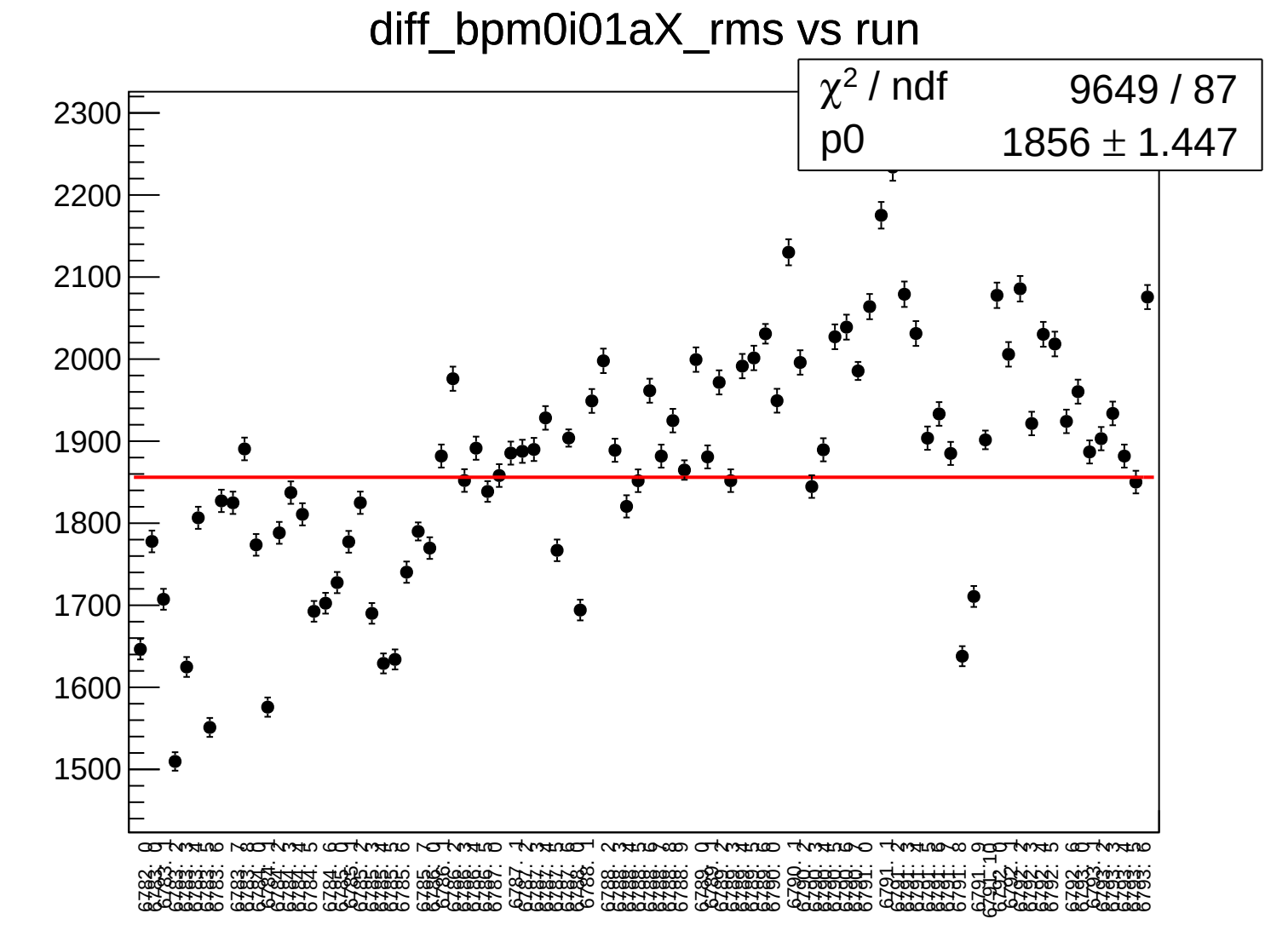

diff_bpm0i01Y_mean vs run
χ^2 / ndf 92.76 / 87
p0 7.897 ± 2.264
pull
Entries 88
Mean 398
Std Dev 0

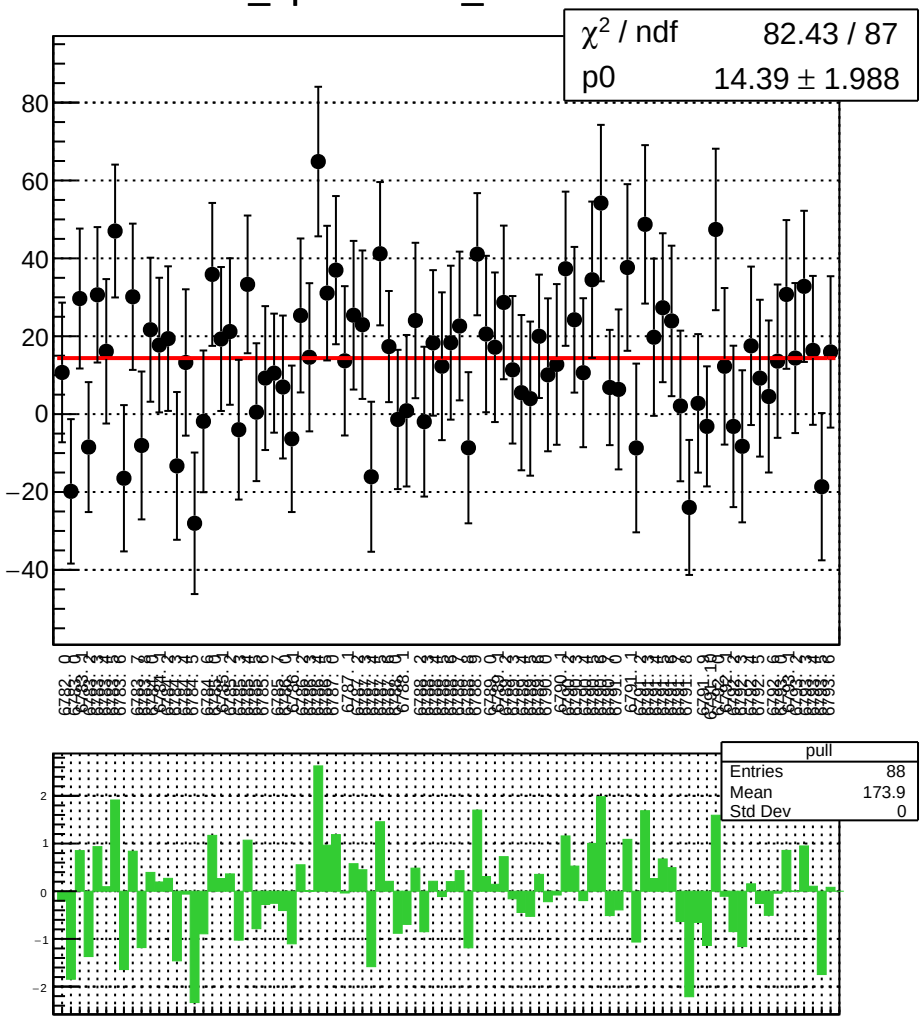

pull1D
Entries 88
Mean 0.003073
Std Dev 1.027

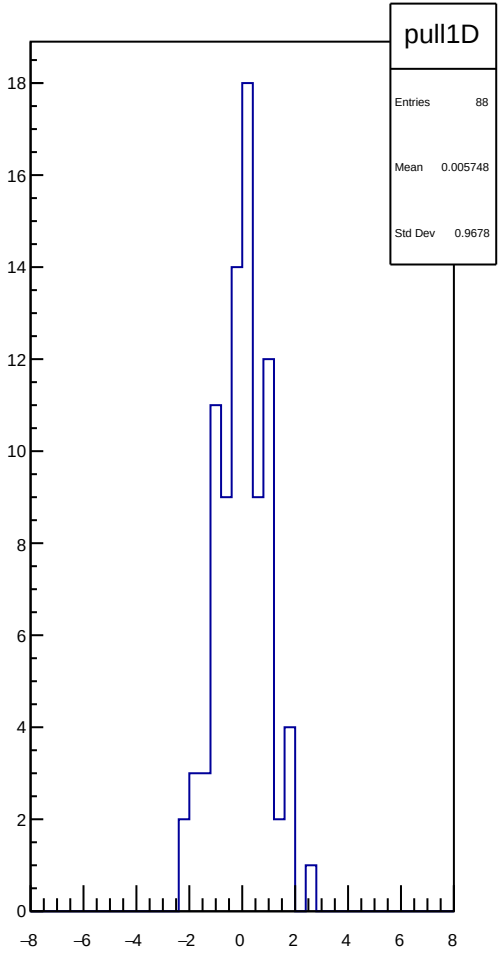

diff_bpm0i01Y_rms vs run
χ² / ndf 5346 / 87
p0 2056 ± 1.601
2400
2300
2200
2100
2000
1900
1800
1700

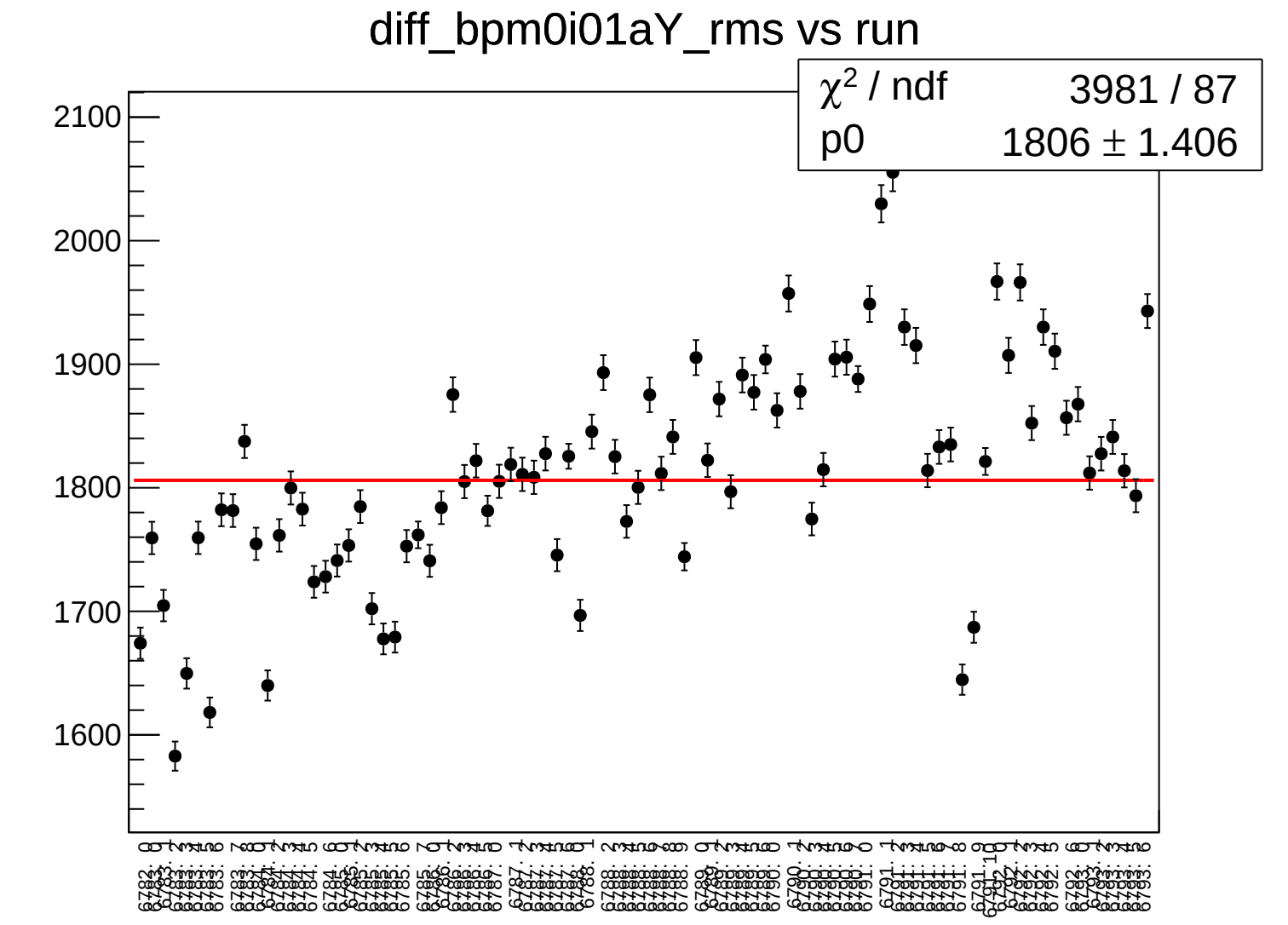

diff_bpm0i01aX_mean vs run
χ² / ndf 71.69 / 87
p0 −1.585 ± 2.046
pull
Entries 88
Mean 157.2
Std Dev 382.2

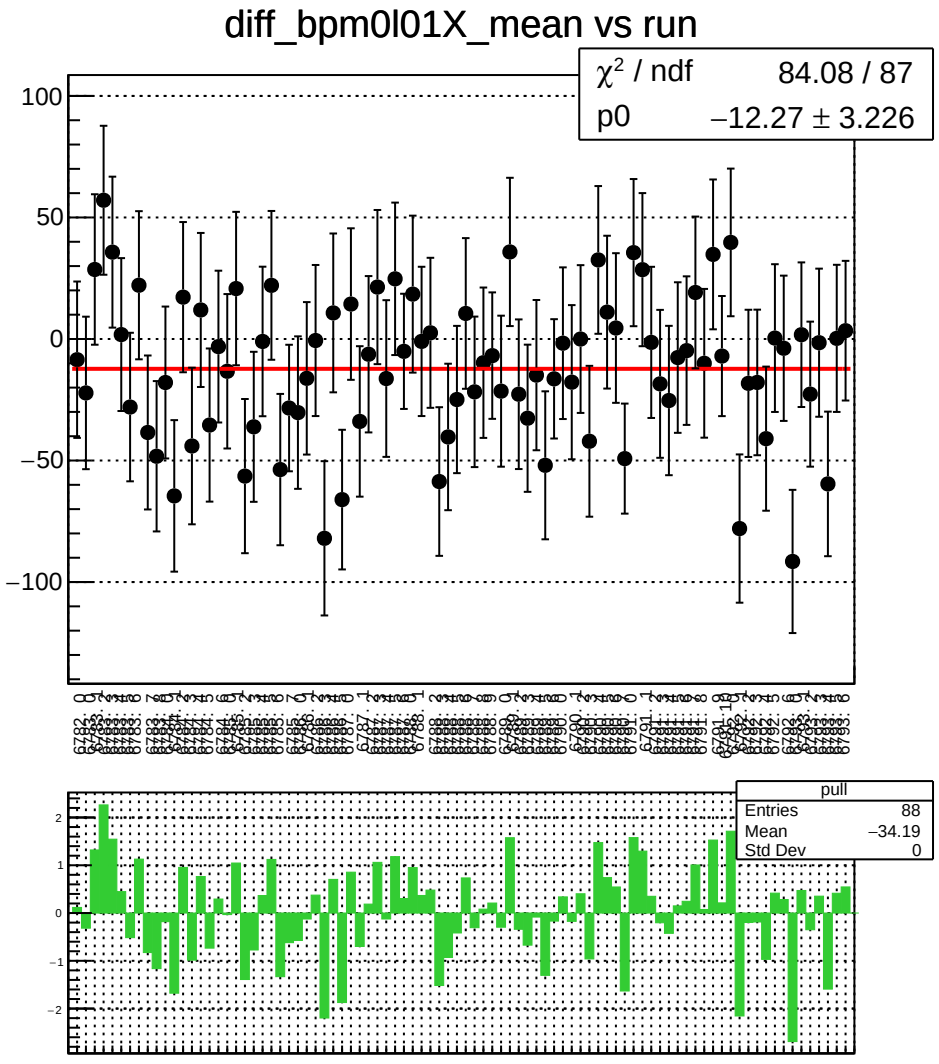

pull1D
Entries 88
Mean −0.0005458
Std Dev 0.9026

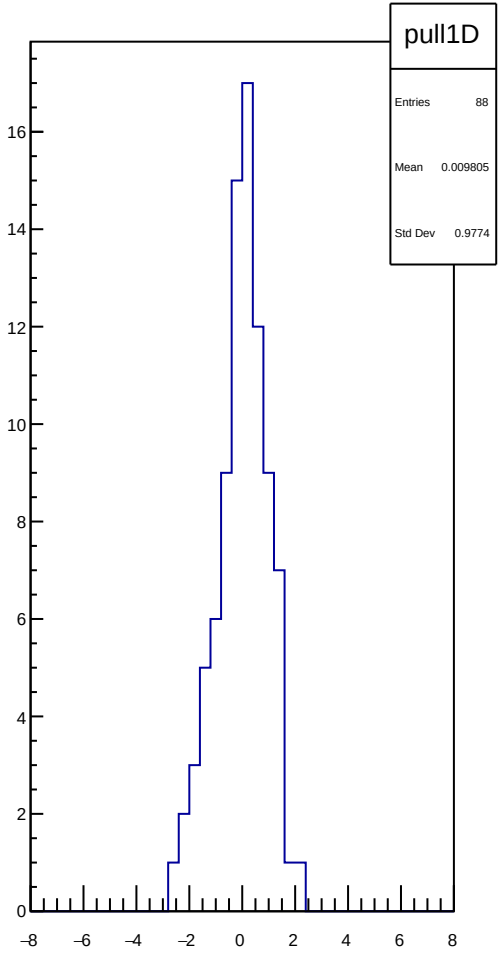

diff_bpm0i01aX_rms vs run
χ² / ndf 9649 / 87
p0 1856 ± 1.447
2300
2200
2100
2000
1900
1800
1700
1600
1500

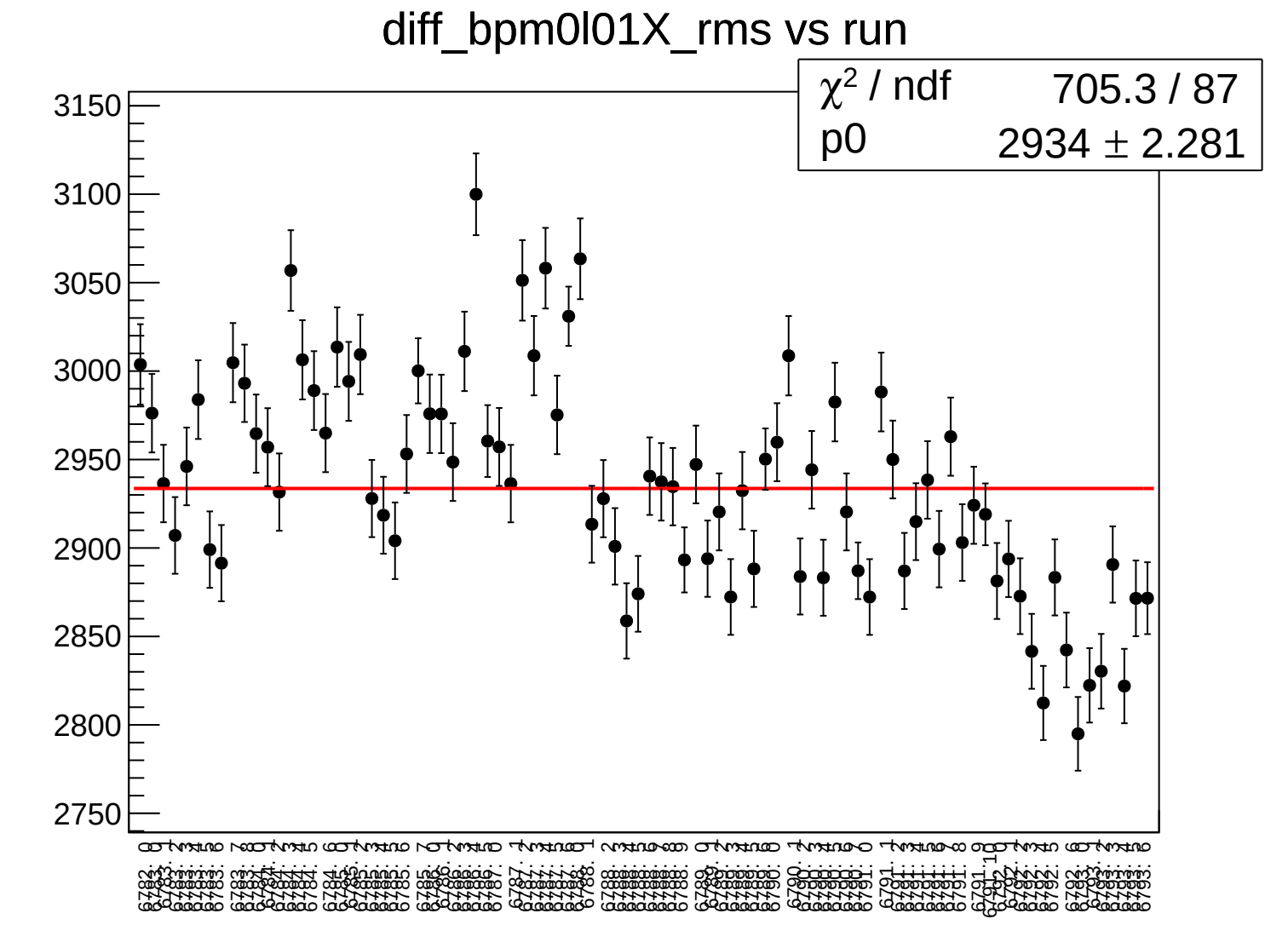

diff_bpm0i01aY_mean vs run
χ^2 / ndf 82.43 / 87
p0 14.39 ± 1.988
pull
Entries 88
Mean 173.9
Std Dev 0

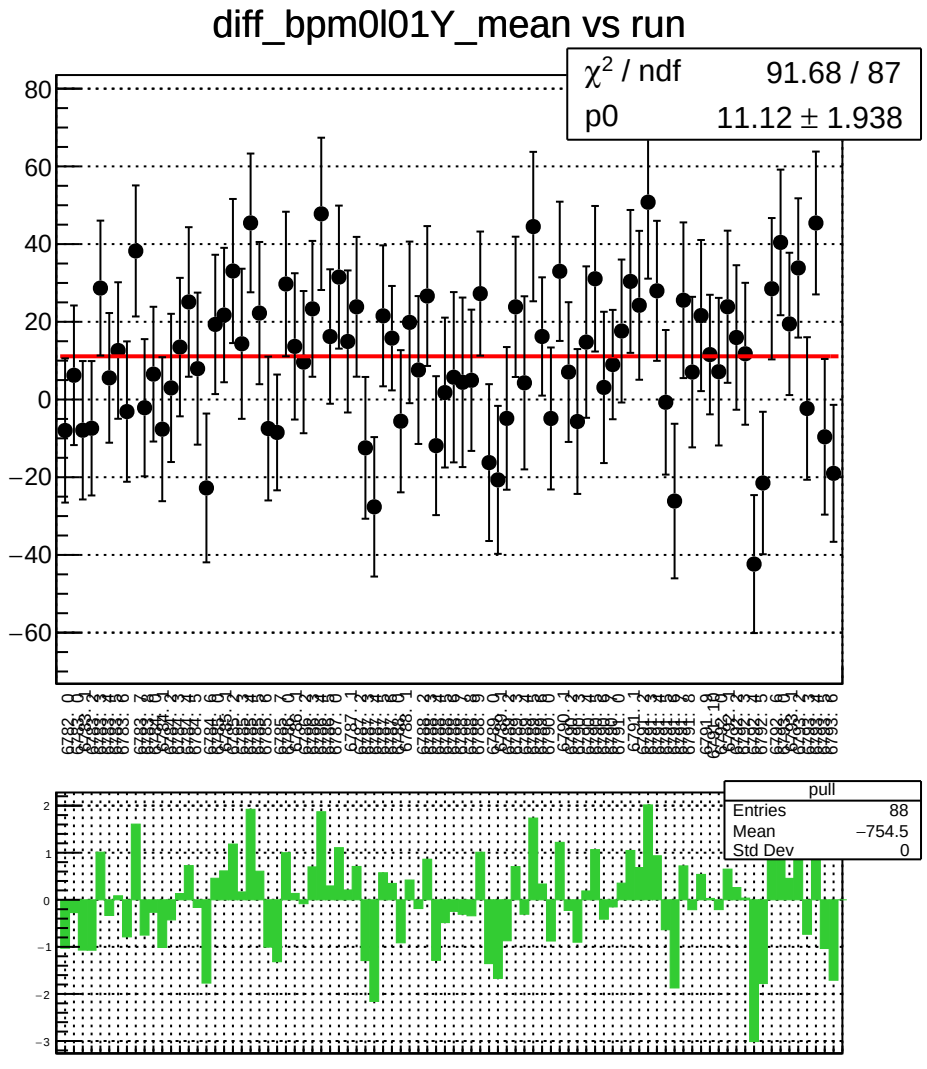

pull1D
Entries 88
Mean 0.005748
Std Dev 0.9678

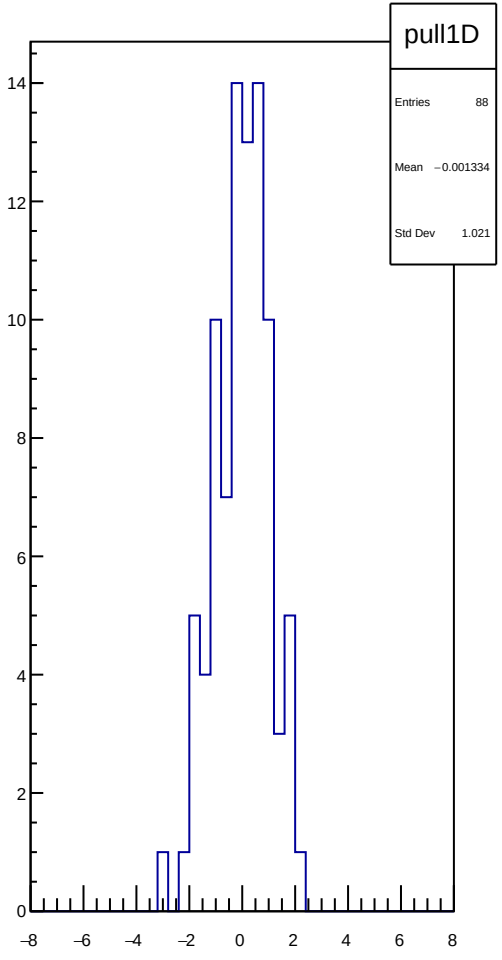

diff_bpm0i01aY_rms vs run
χ² / ndf 3981 / 87
p0 1806 ± 1.406
2100
2000
1900
1800
1700
1600

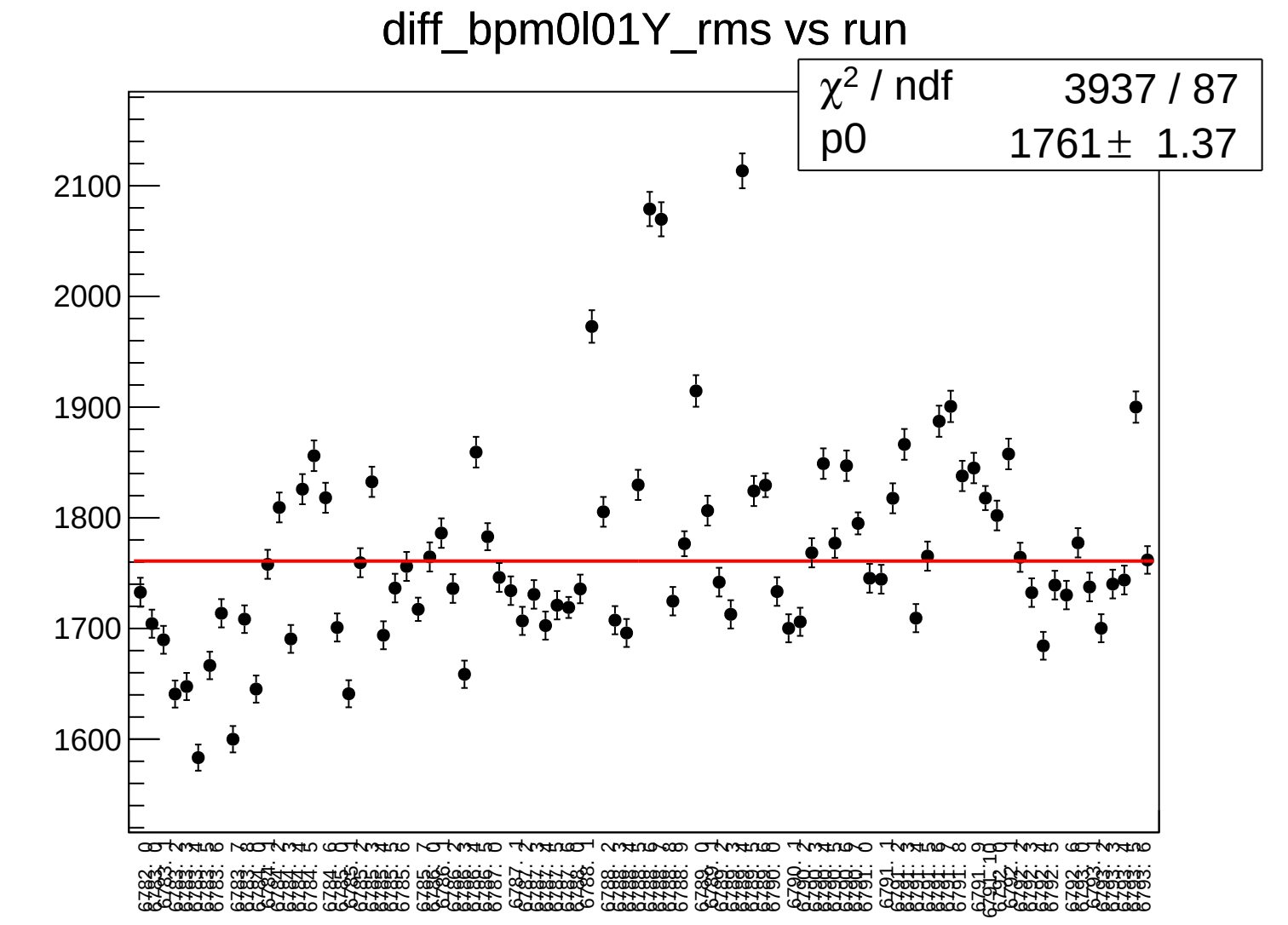

diff_bpm0l01X_mean vs run
χ² / ndf 84.08 / 87
p0 −12.27 ± 3.226
pull
Entries 88
Mean −34.19
Std Dev 0

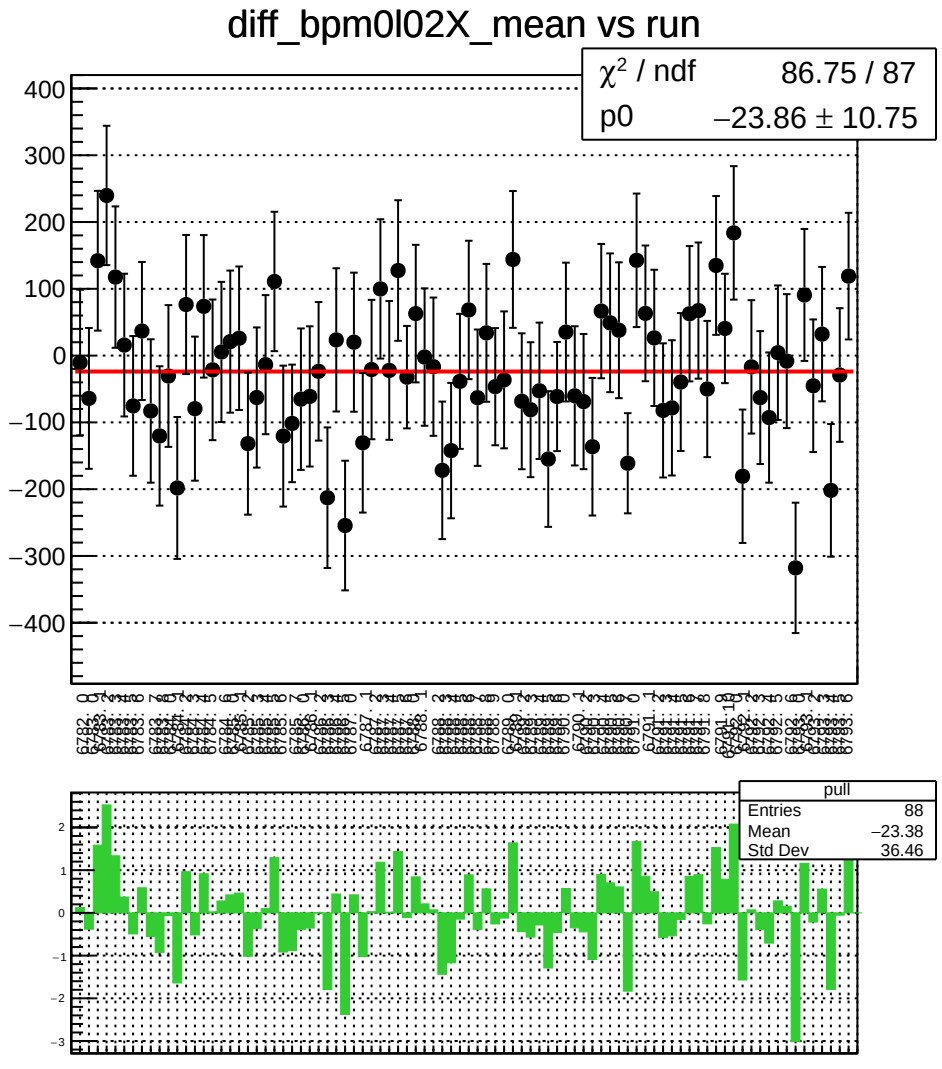

pull1D
Entries 88
Mean 0.009805
Std Dev 0.9774

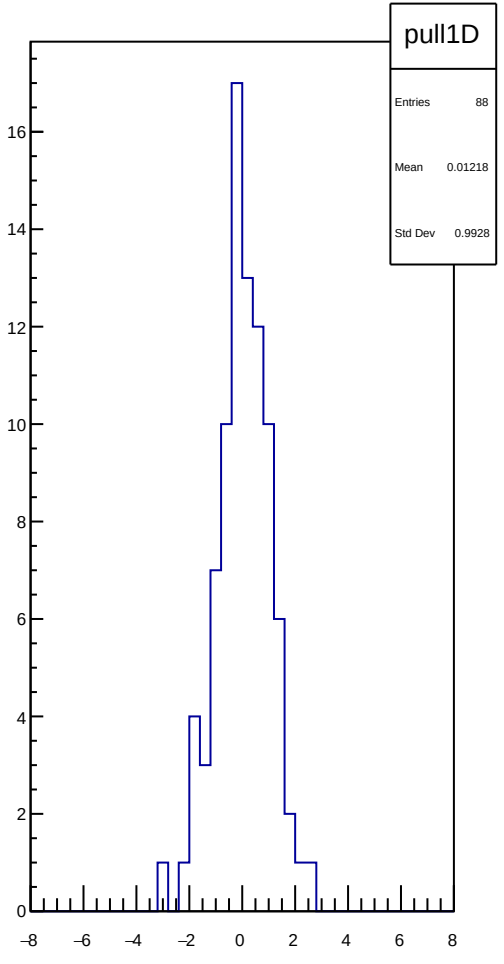

diff_bpm0l01X_rms vs run
χ² / ndf 705.3 / 87
p0 2934 ± 2.281
3150
3100
3050
3000
2950
2900
2850
2800
2750

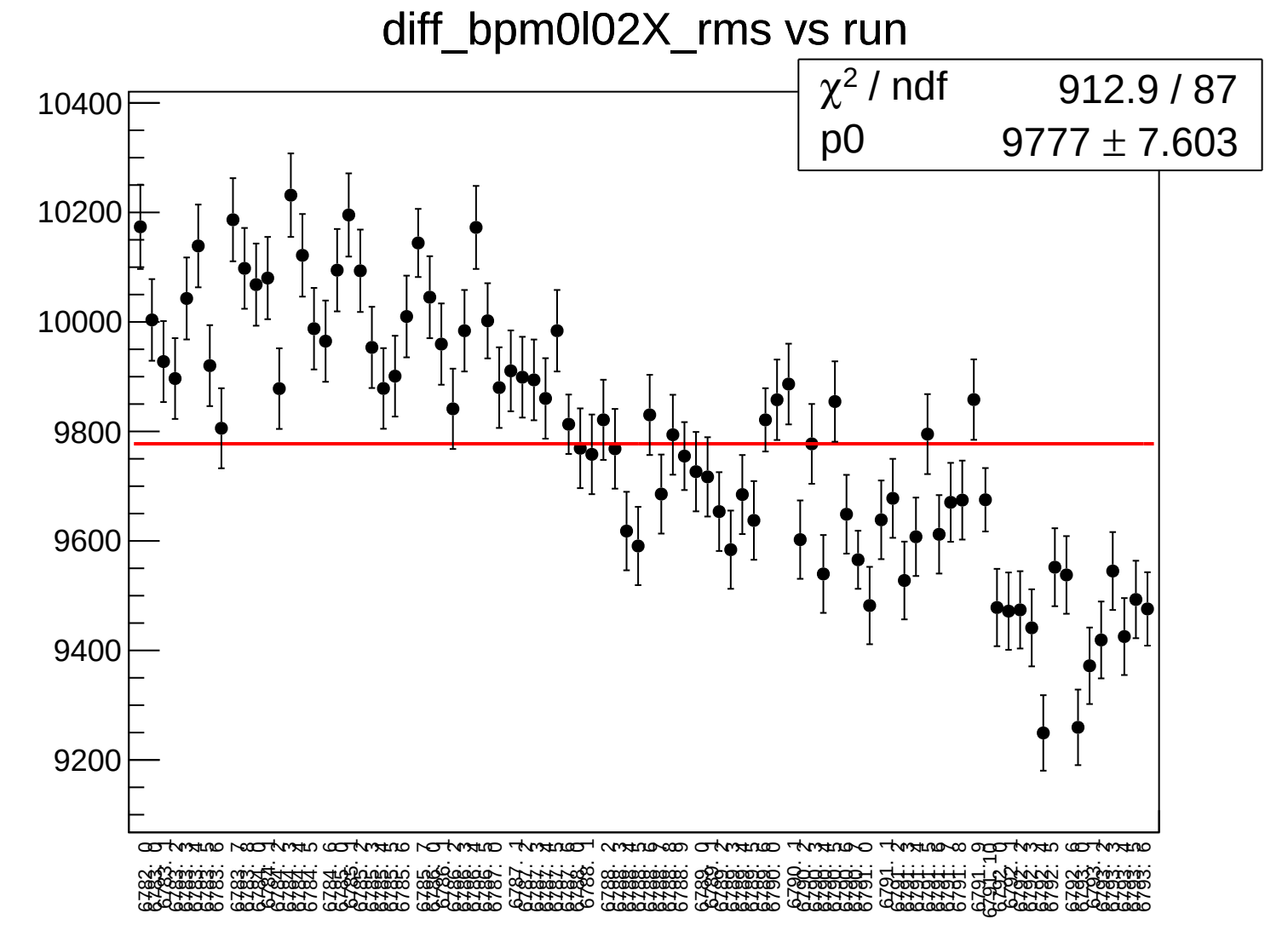

diff_bpm0l01Y_mean vs run
χ^2 / ndf 91.68 / 87
p0 11.12 ± 1.938
pull
Entries 88
Mean −754.5
Std Dev 0

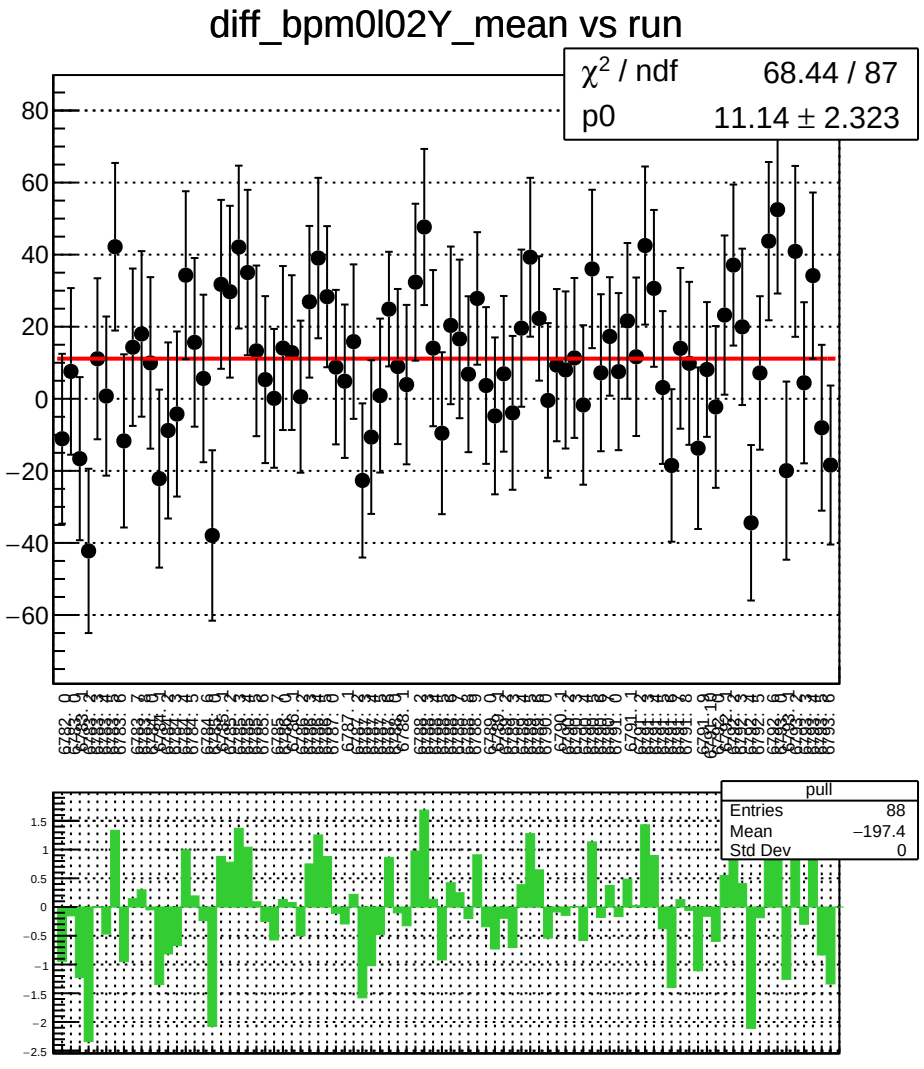

pull1D
Entries 88
Mean −0.001334
Std Dev 1.021

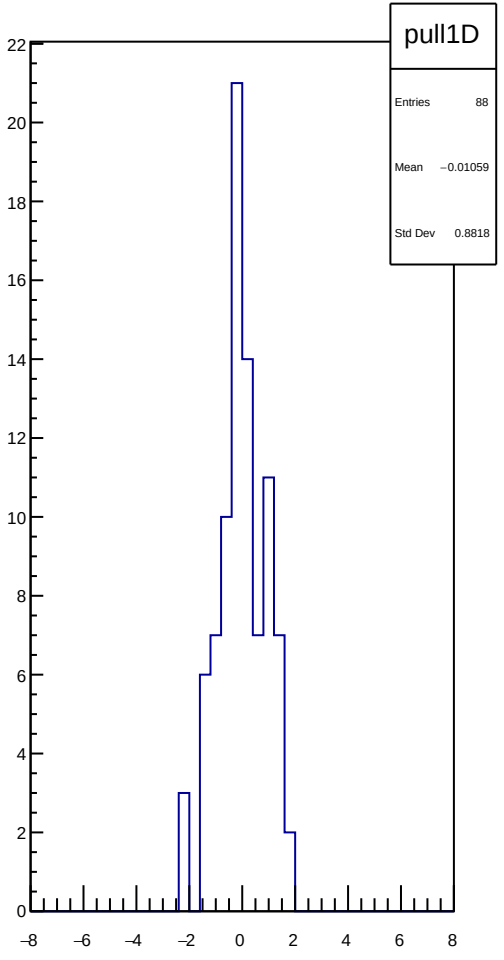

diff_bpm0l01Y_rms vs run
χ² / ndf 3937 / 87
p0 1761 ± 1.37
2100
2000
1900
1800
1700
1600

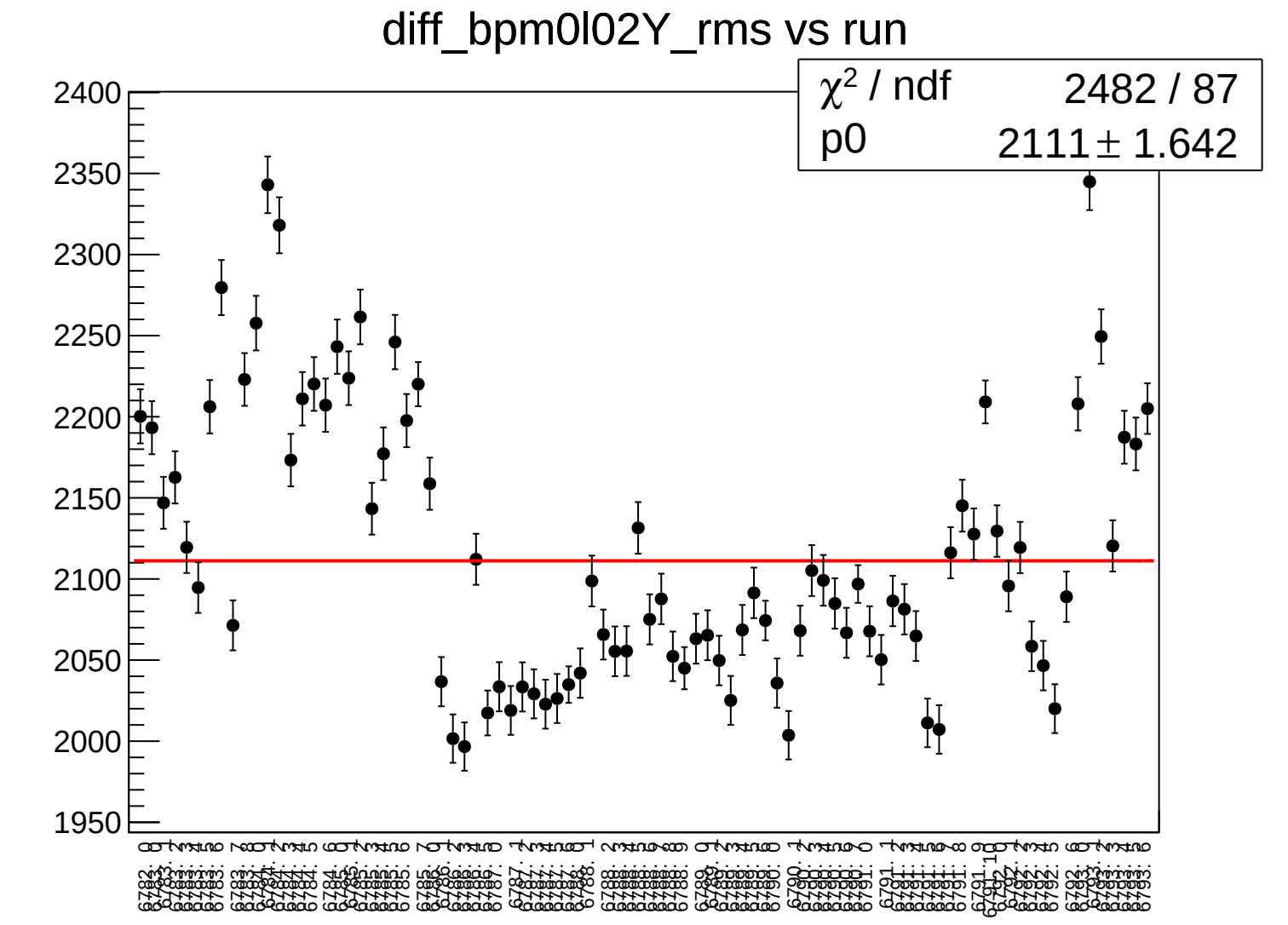

diff_bpm0l02X_mean vs run
χ² / ndf 86.75 / 87
p0 −23.86 ± 10.75
pull
Entries 88
Mean −23.38
Std Dev 36.46

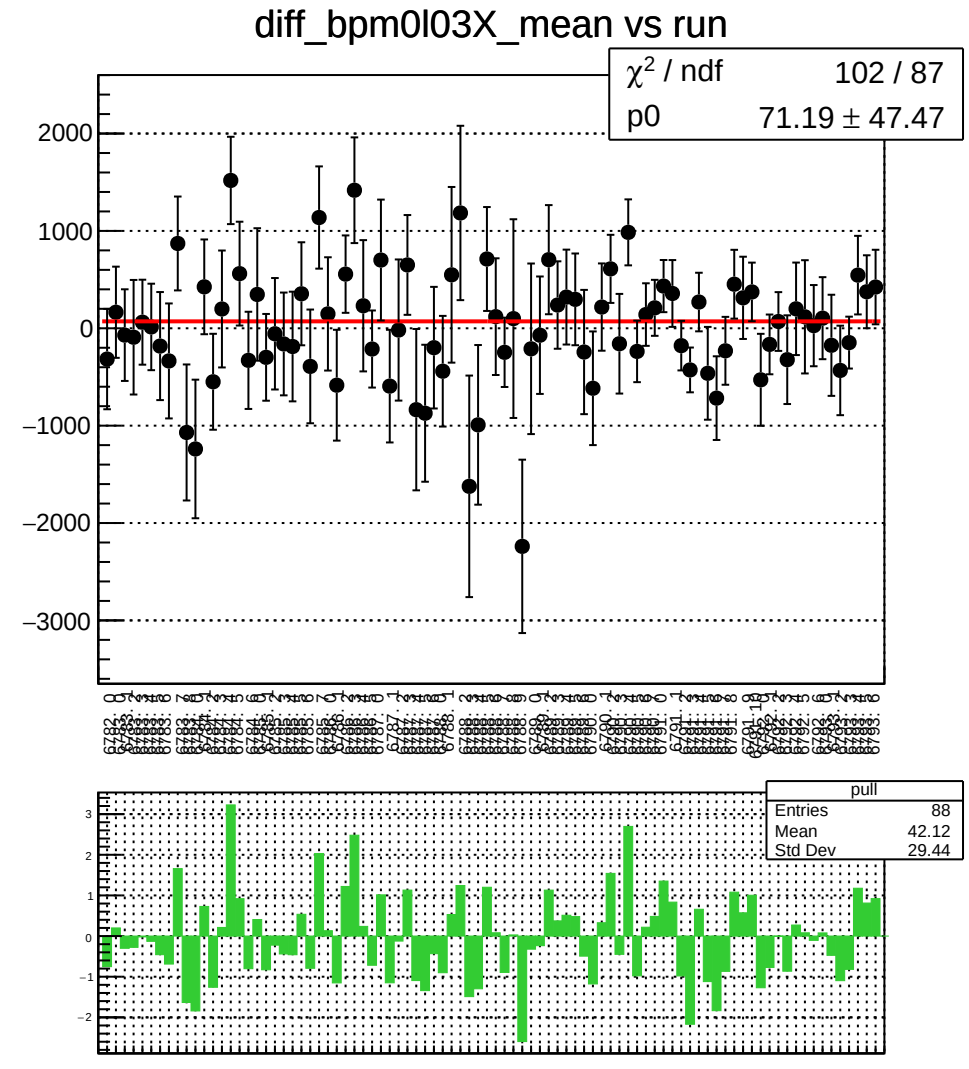

pull1D
Entries 88
Mean 0.01218
Std Dev 0.9928

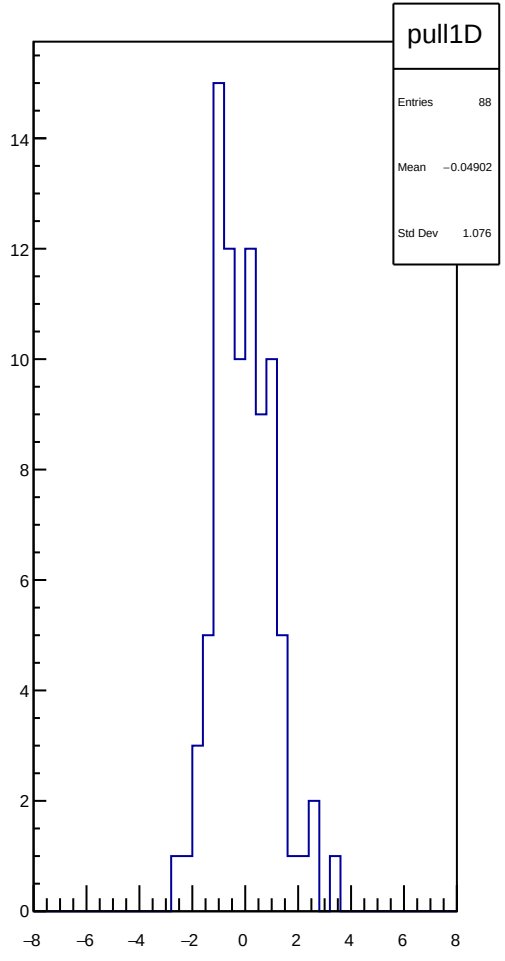

diff_bpm0l02X_rms vs run
χ² / ndf 912.9 / 87
p0 9777 ± 7.603
10400
10200
10000
9800
9600
9400
9200

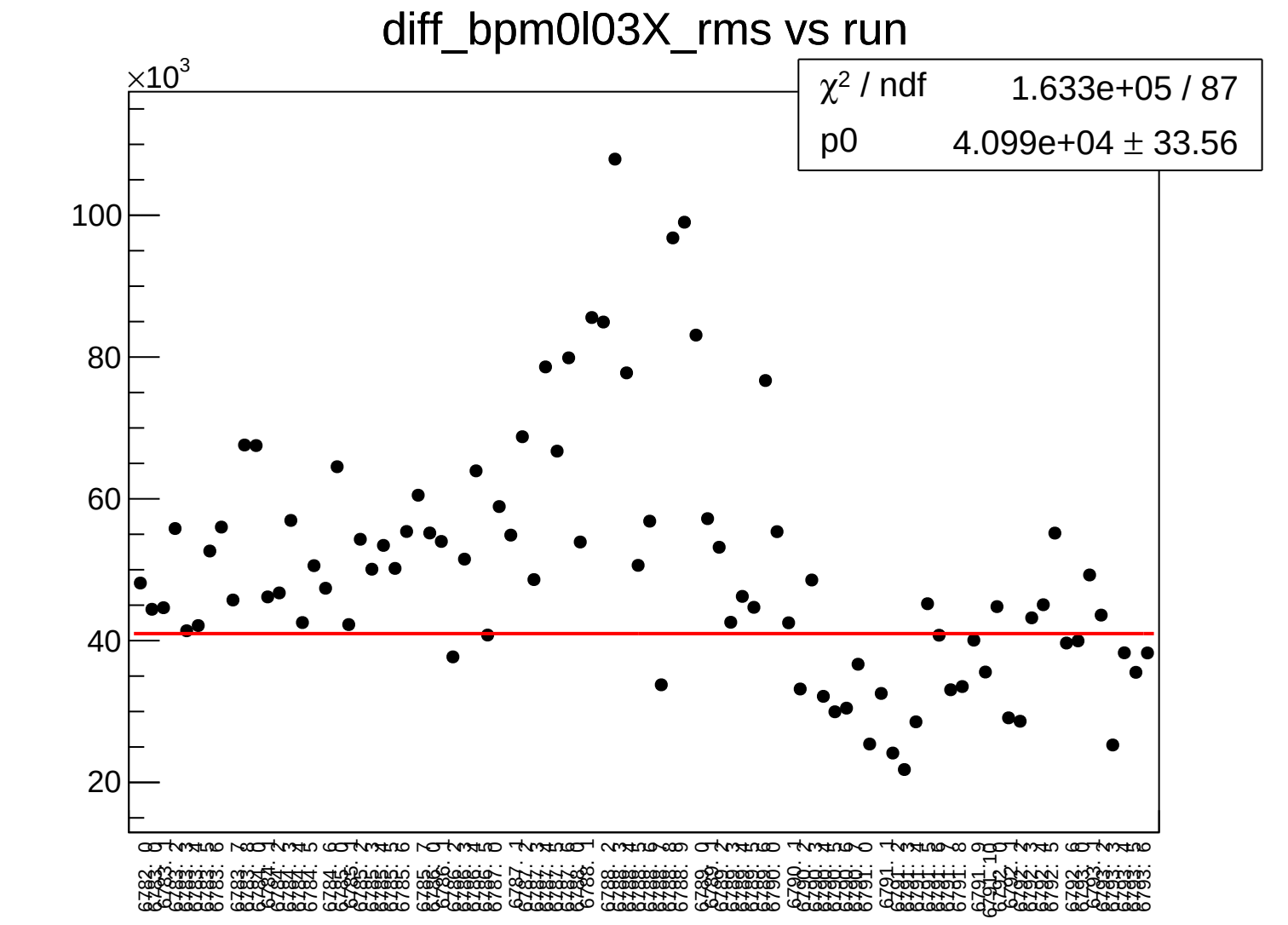

diff_bpm0l02Y_mean vs run
χ^2 / ndf 68.44 / 87
p0 11.14 ± 2.323
pull
Entries 88
Mean −197.4
Std Dev 0

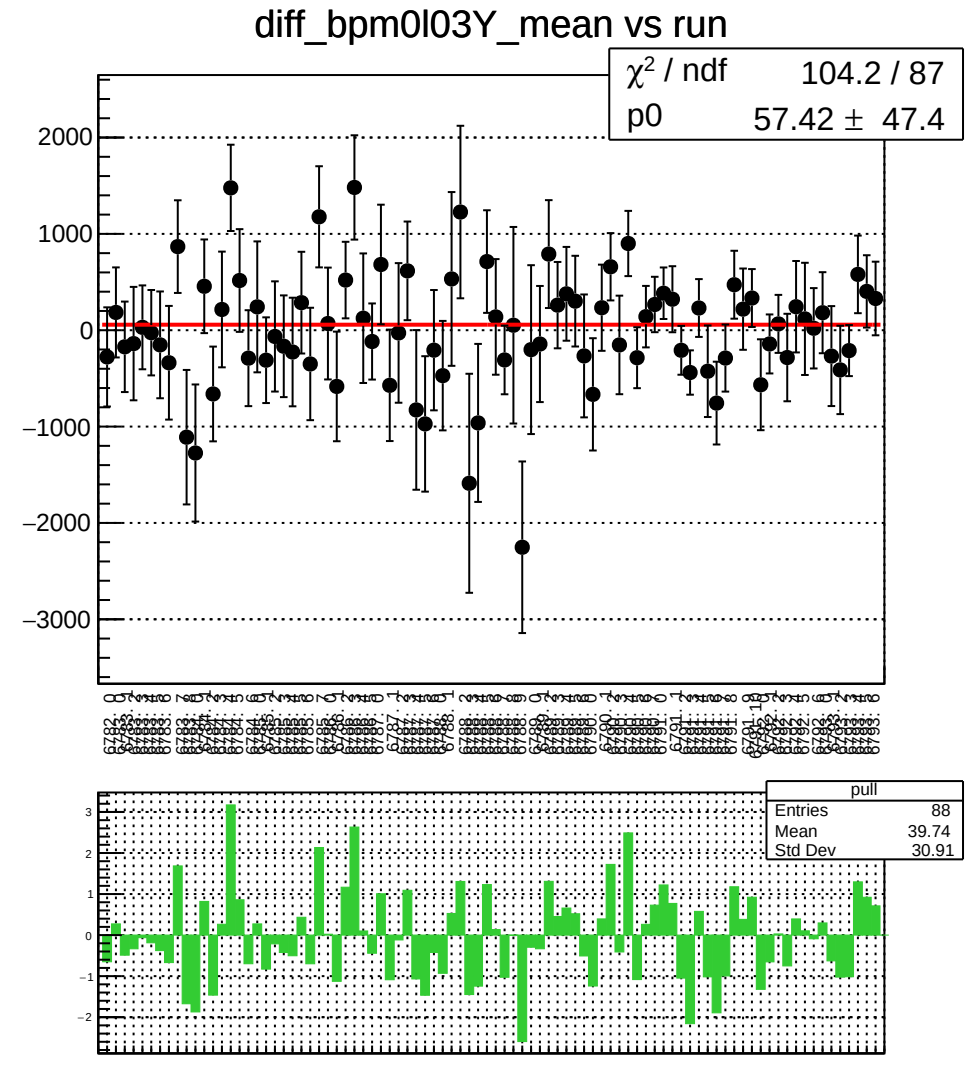

pull1D
Entries 88
Mean −0.01059
Std Dev 0.8818

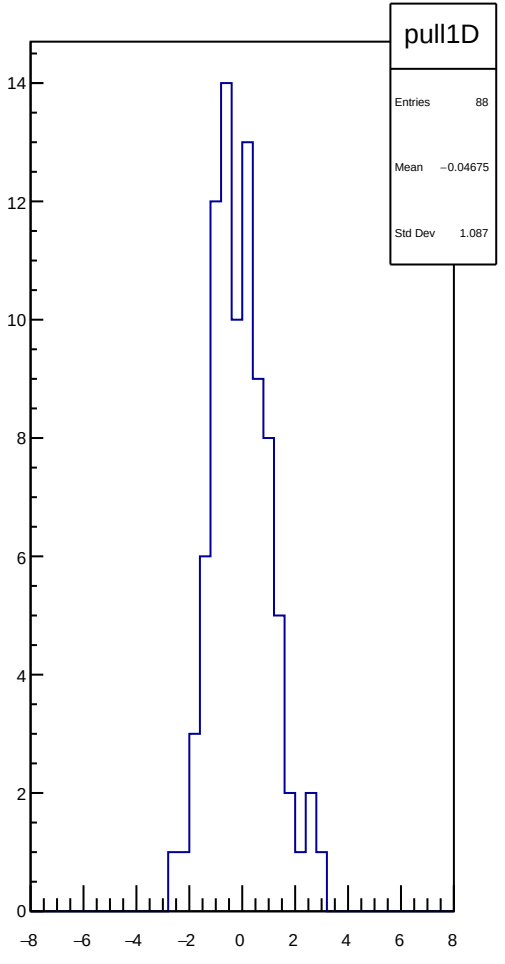

diff_bpm0l02Y_rms vs run
χ² / ndf 2482 / 87
p0 2111 ± 1.642
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950

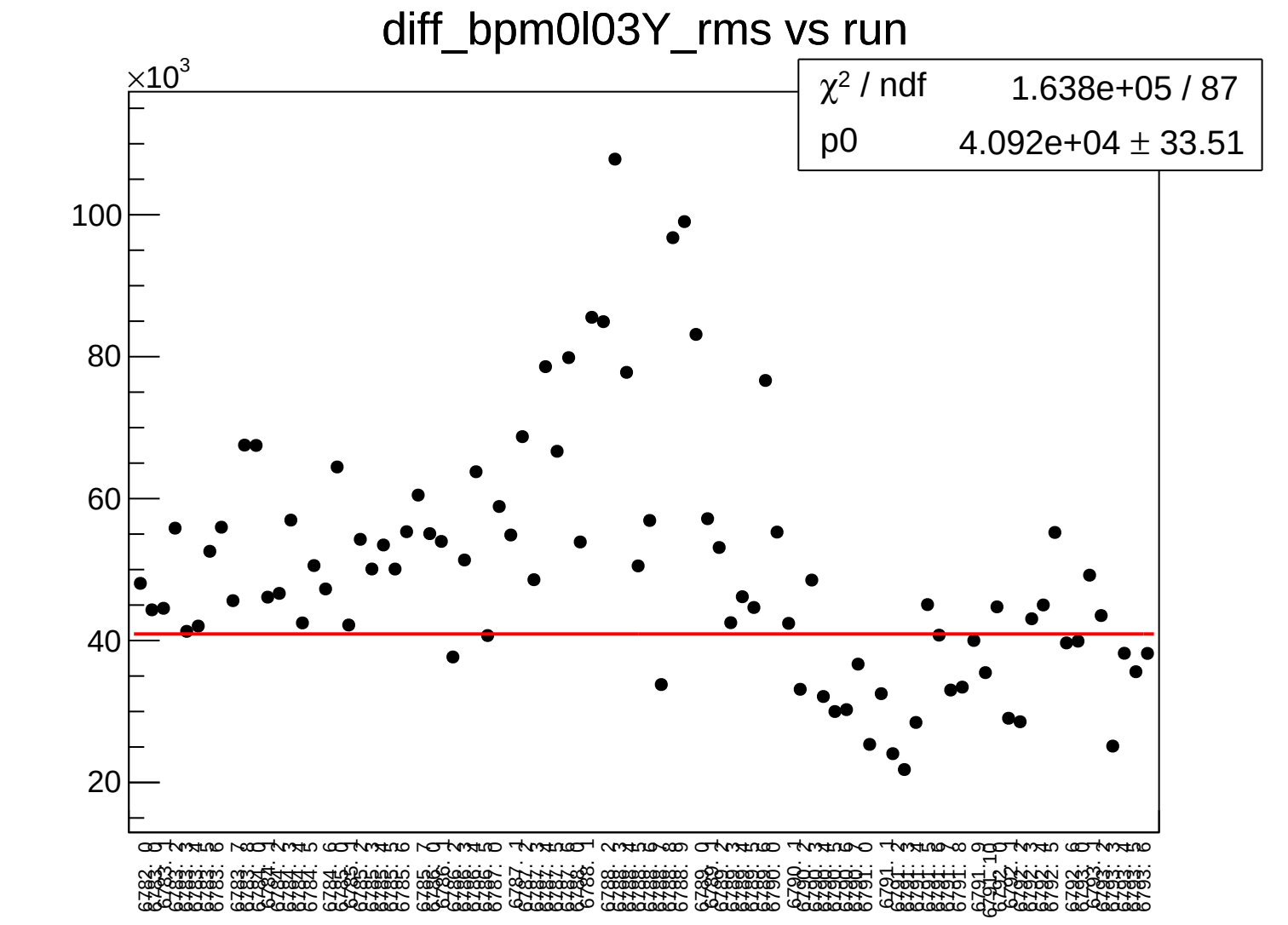

diff_bpm0l03X_mean vs run
χ^2 / ndf 102 / 87
p0 71.19 ± 47.47
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 42.12
Std Dev 29.44
3
2
1
0
−1
−2

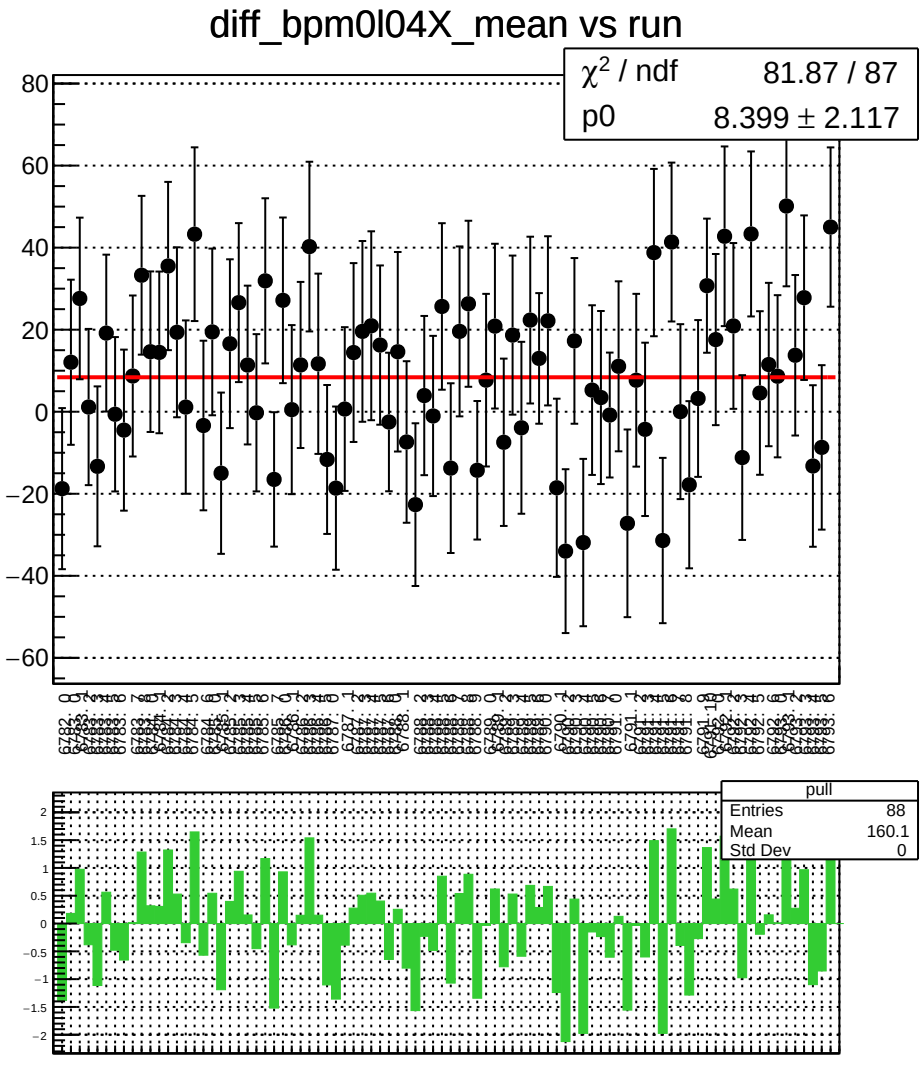

pull1D
Entries 88
Mean −0.04902
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

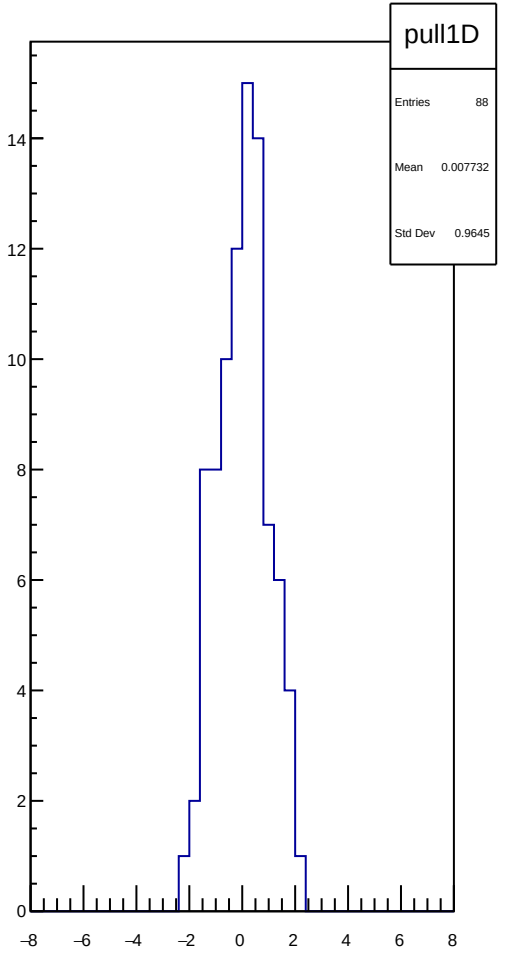

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.633e+05 / 87
p0 4.099e+04 ± 33.56
100
80
60
40
20

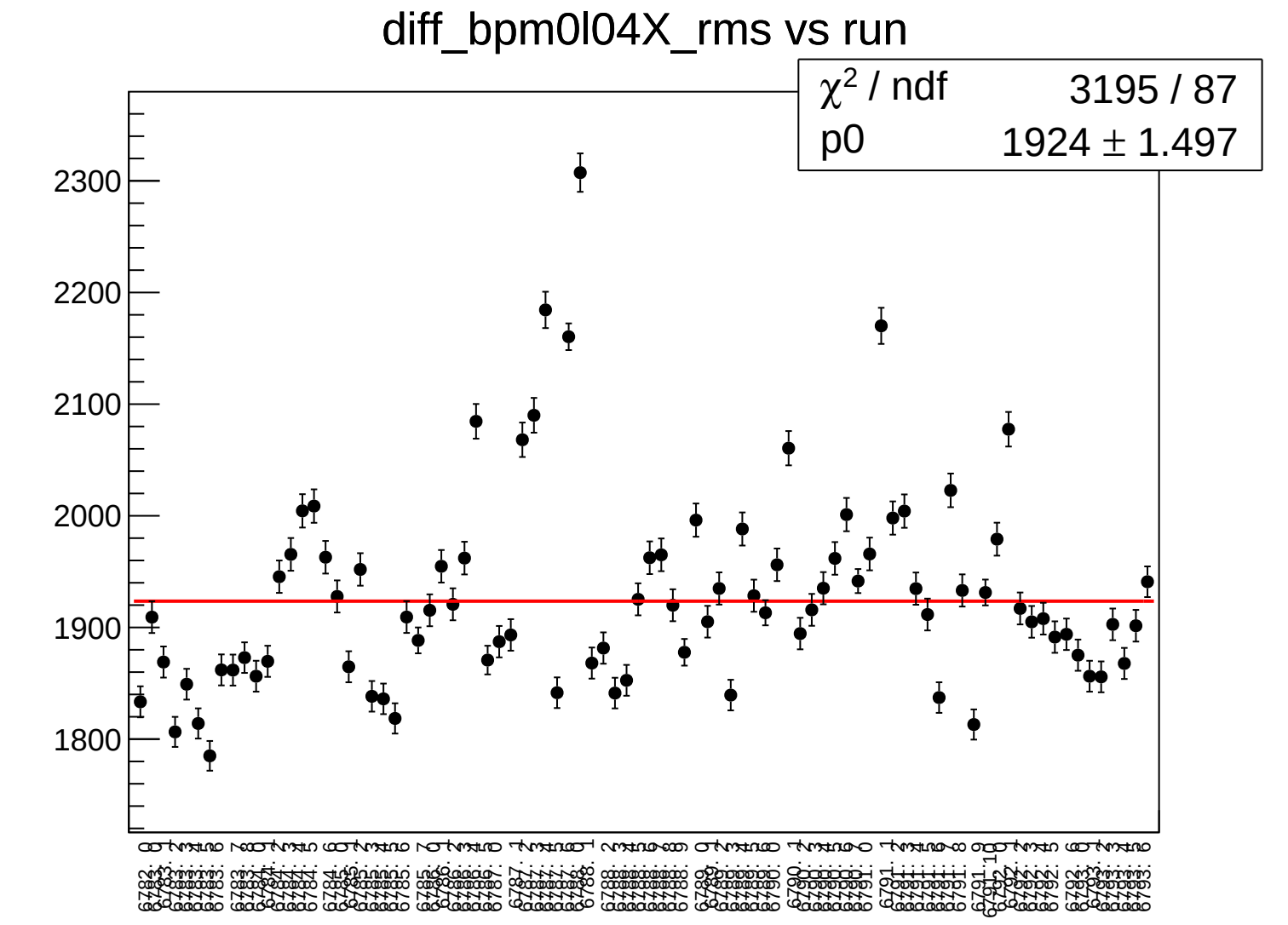

diff_bpm0l03Y_mean vs run
χ² / ndf 104.2 / 87
p0 57.42 ± 47.4
pull
Entries 88
Mean 39.74
Std Dev 30.91

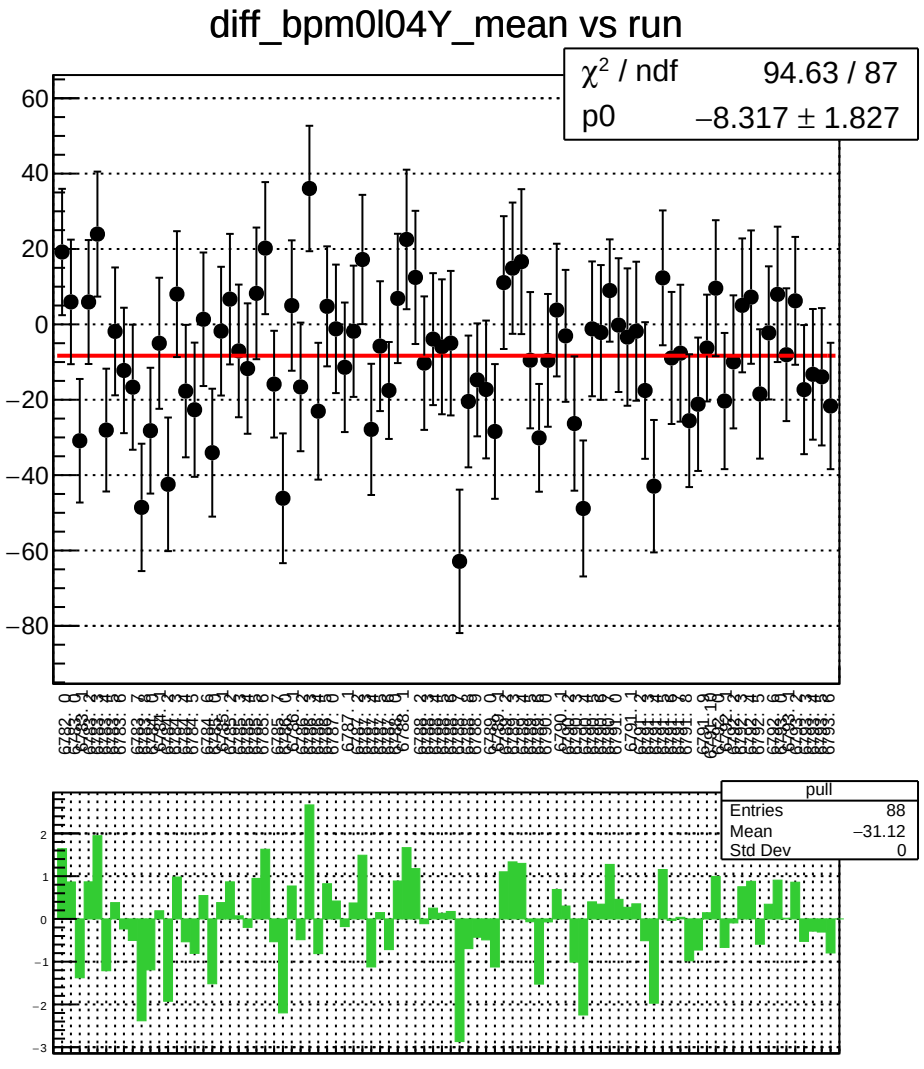

pull1D
Entries 88
Mean −0.04675
Std Dev 1.087

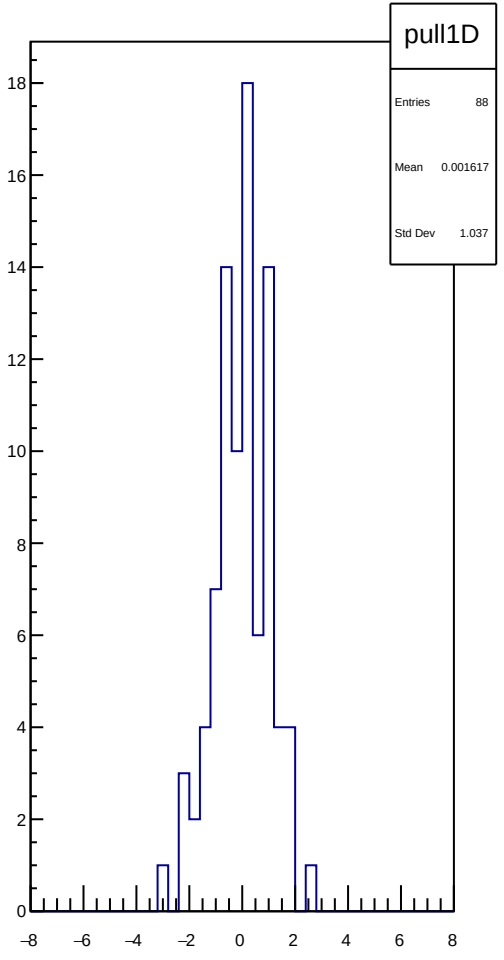

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.638e+05 / 87
p0 4.092e+04 ± 33.51
100
80
60
40
20

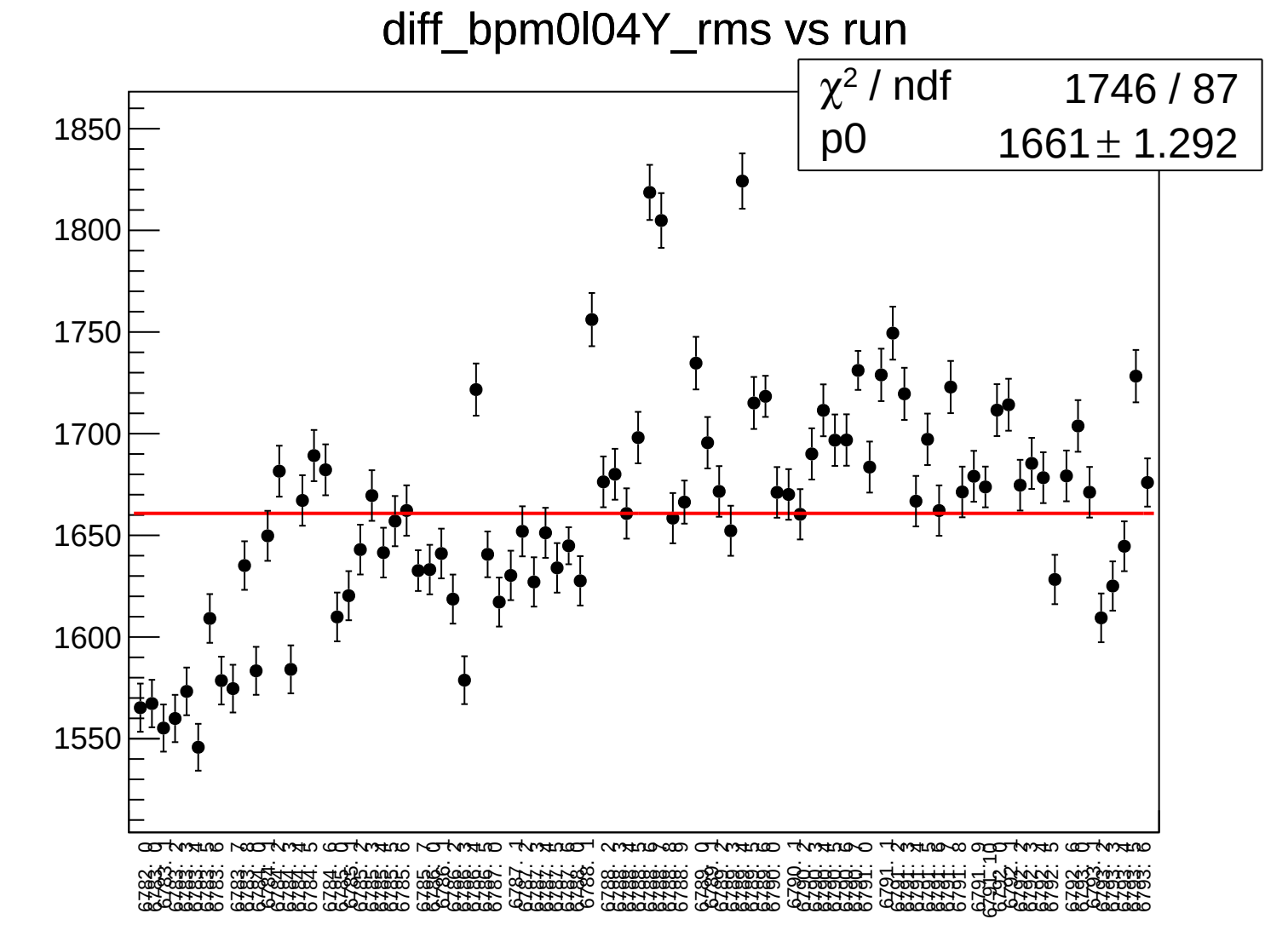

diff_bpm0l04X_mean vs run
χ² / ndf 81.87 / 87
p0 8.399 ± 2.117
pull
Entries 88
Mean 160.1
Std Dev 0

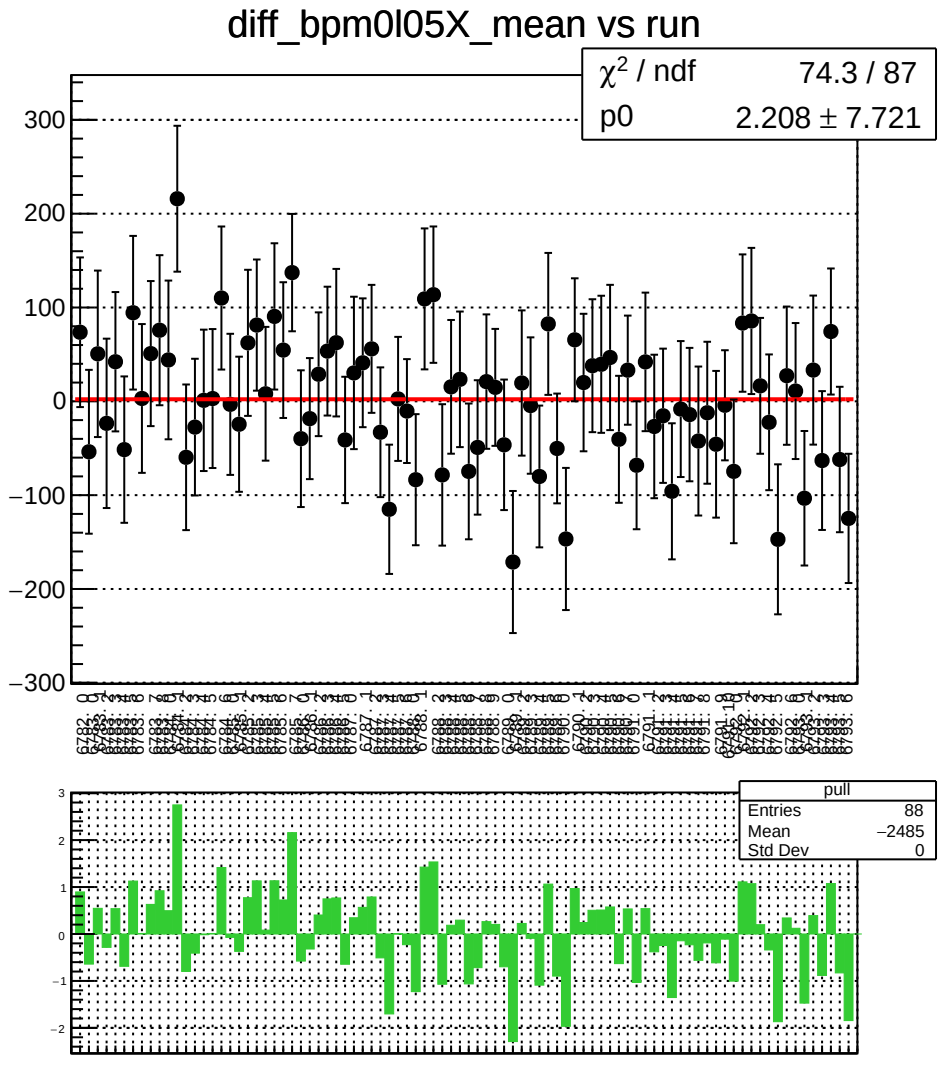

pull1D
Entries 88
Mean 0.007732
Std Dev 0.9645

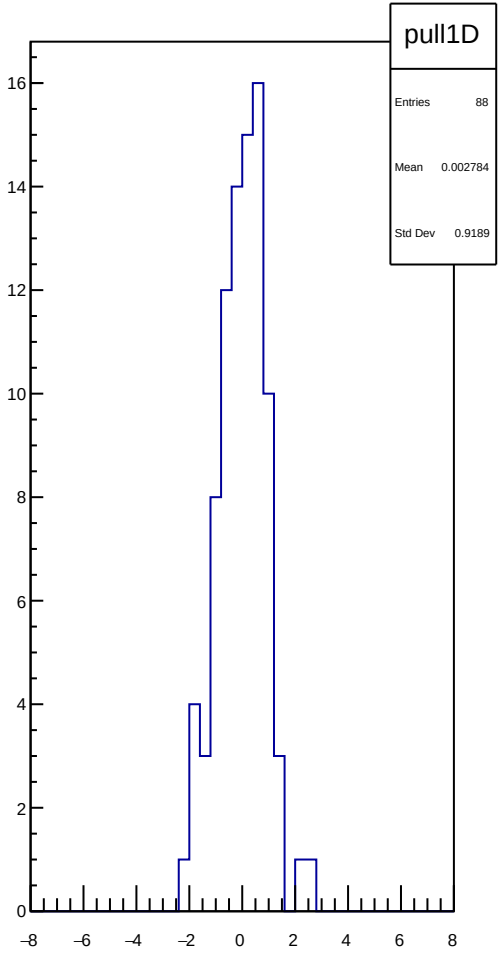

diff_bpm0l04X_rms vs run
χ² / ndf 3195 / 87
p0 1924 ± 1.497
2300
2200
2100
2000
1900
1800

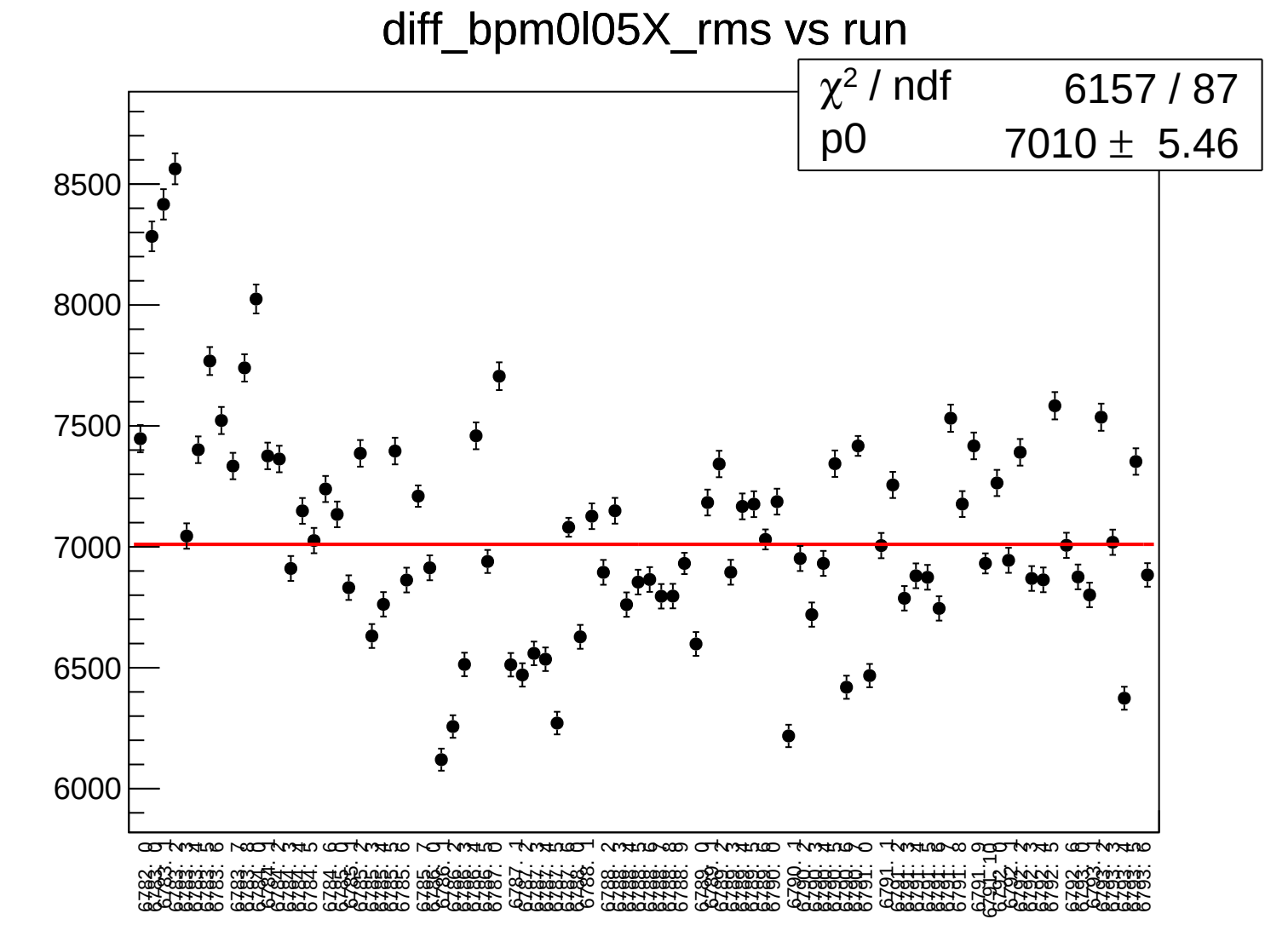

diff_bpm0l04Y_mean vs run
χ² / ndf 94.63 / 87
p0 −8.317 ± 1.827
pull
Entries 88
Mean −31.12
Std Dev 0

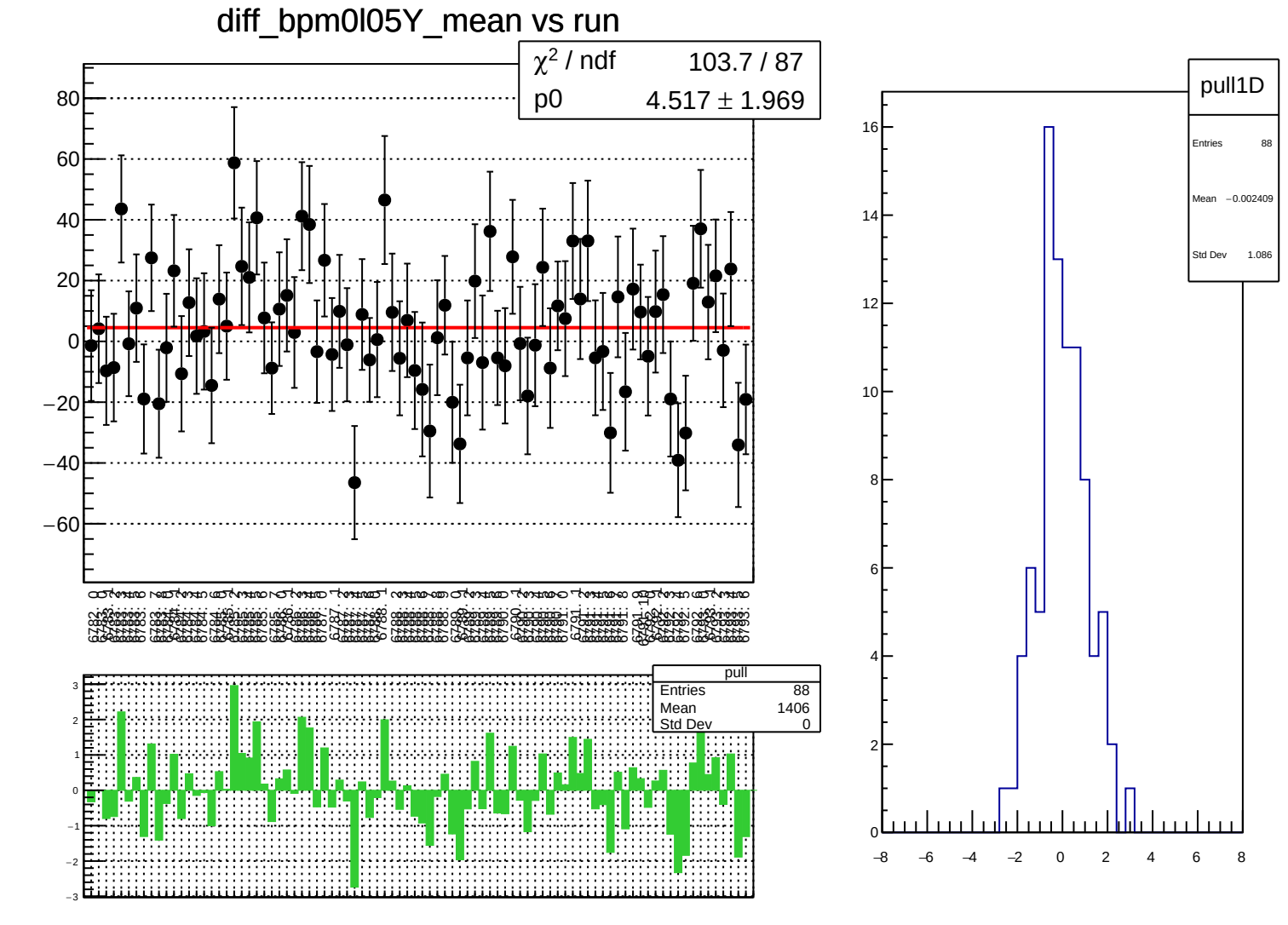

pull1D
Entries 88
Mean 0.001617
Std Dev 1.037

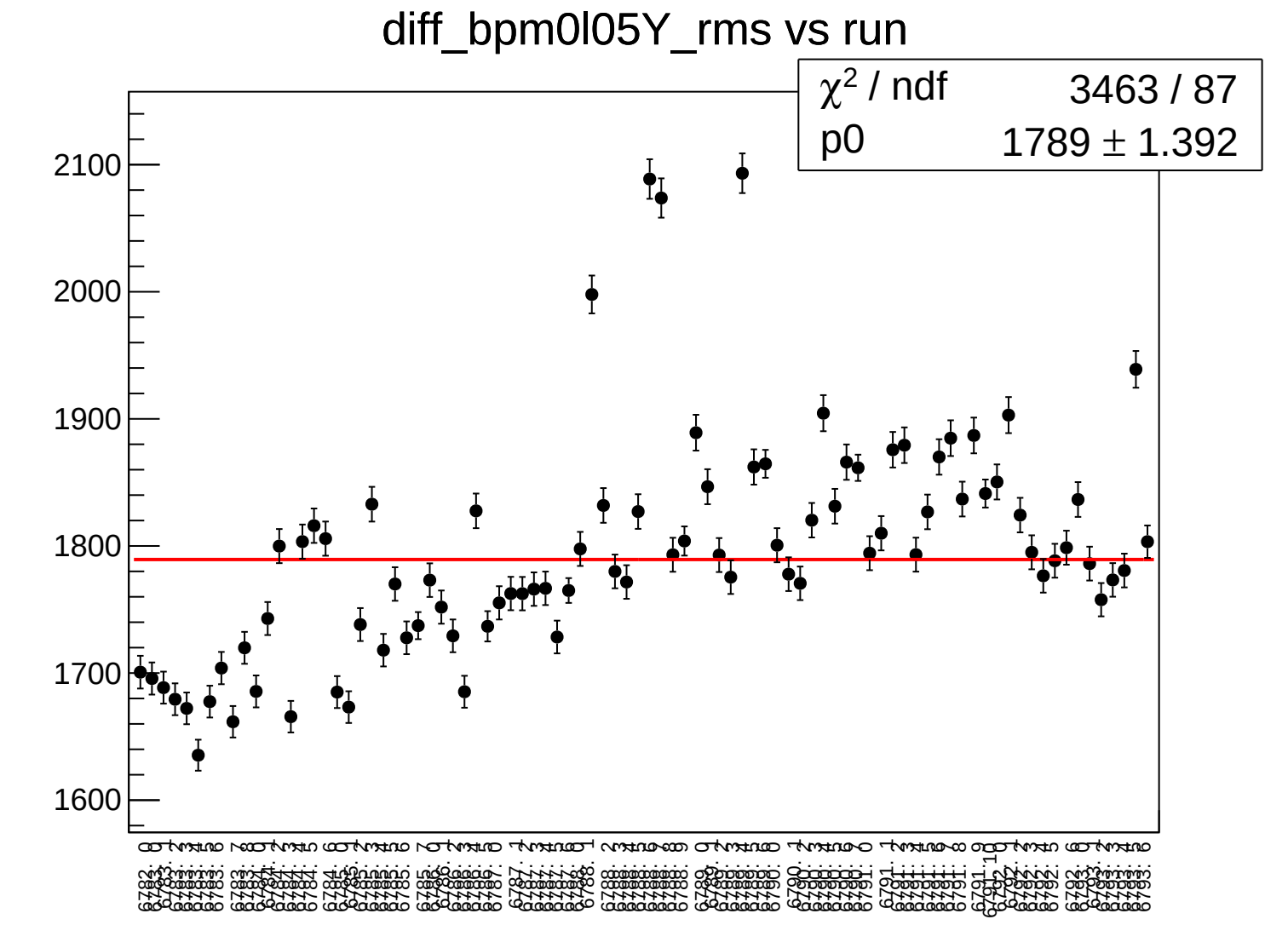

diff_bpm0l04Y_rms vs run
χ² / ndf 1746 / 87
p0 1661 ± 1.292
1850
1800
1750
1700
1650
1600
1550

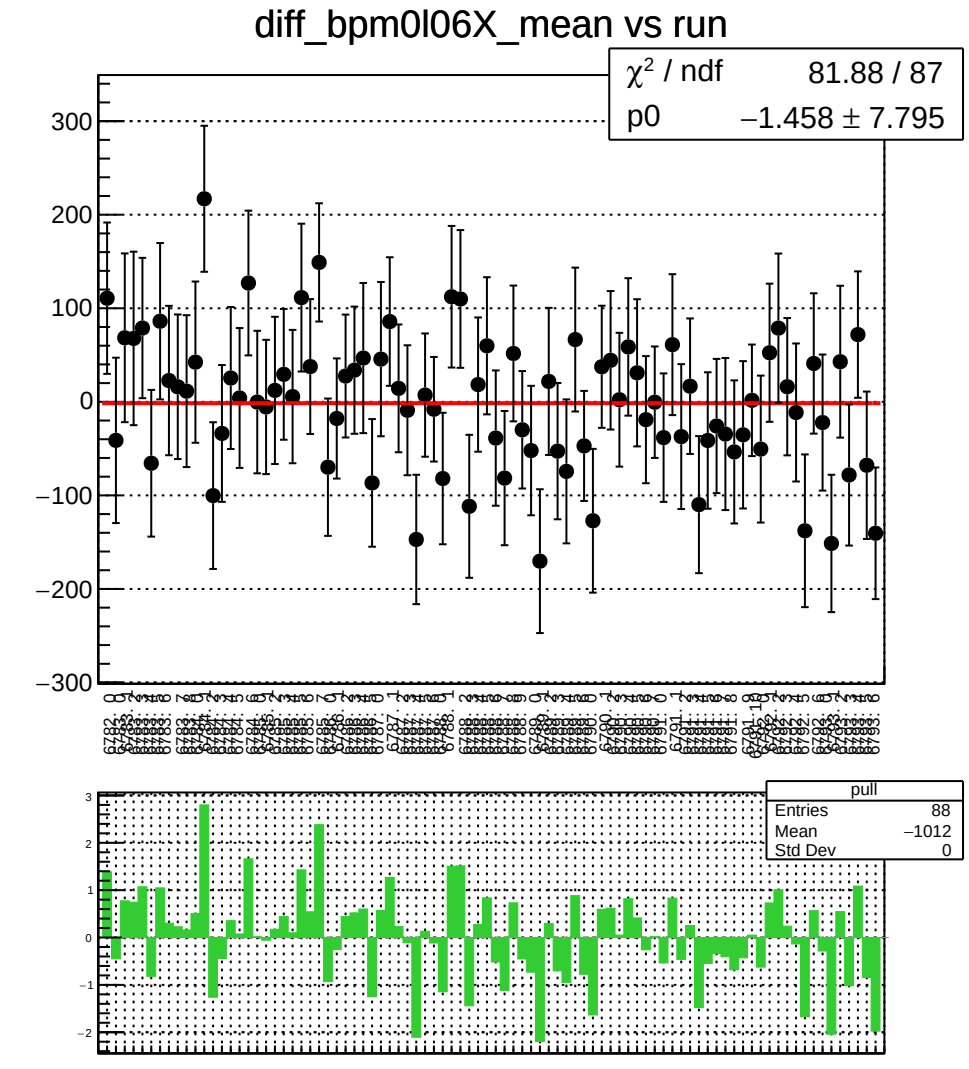

diff_bpm0l05X_mean vs run
χ² / ndf 74.3 / 87
p0 2.208 ± 7.721
pull
Entries 88
Mean −2485
Std Dev 0

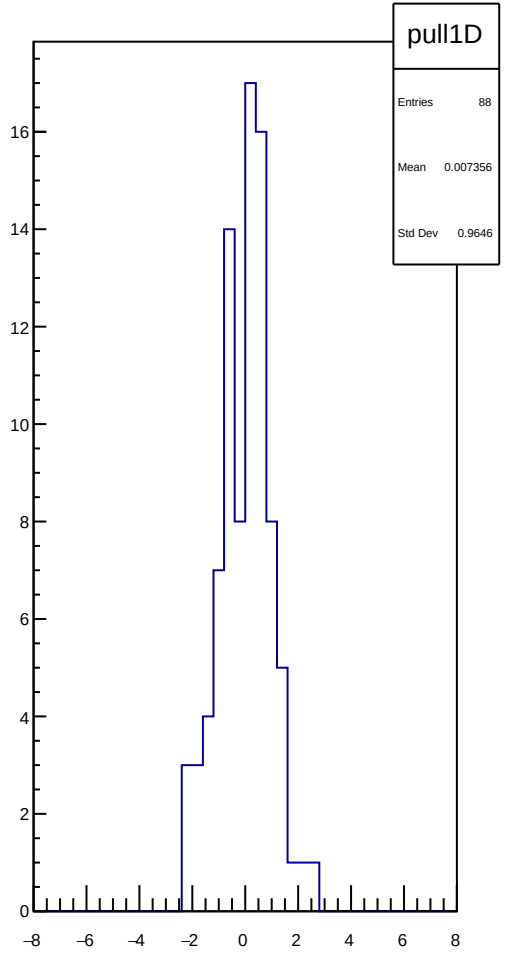

pull1D
Entries 88
Mean 0.002784
Std Dev 0.9189

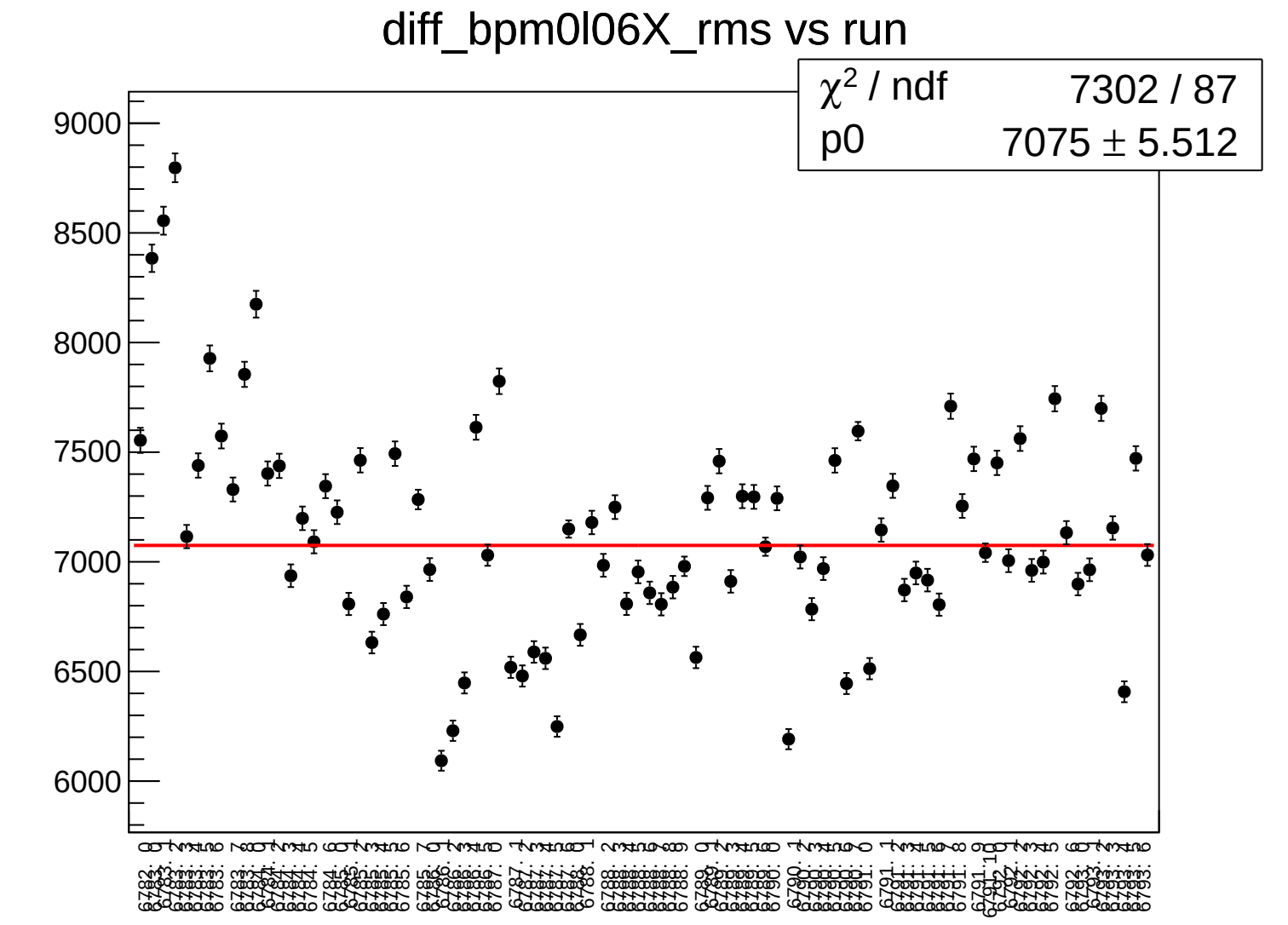

diff_bpm0l05X_rms vs run
χ² / ndf 6157 / 87
p0 7010 ± 5.46
8500
8000
7500
7000
6500
6000

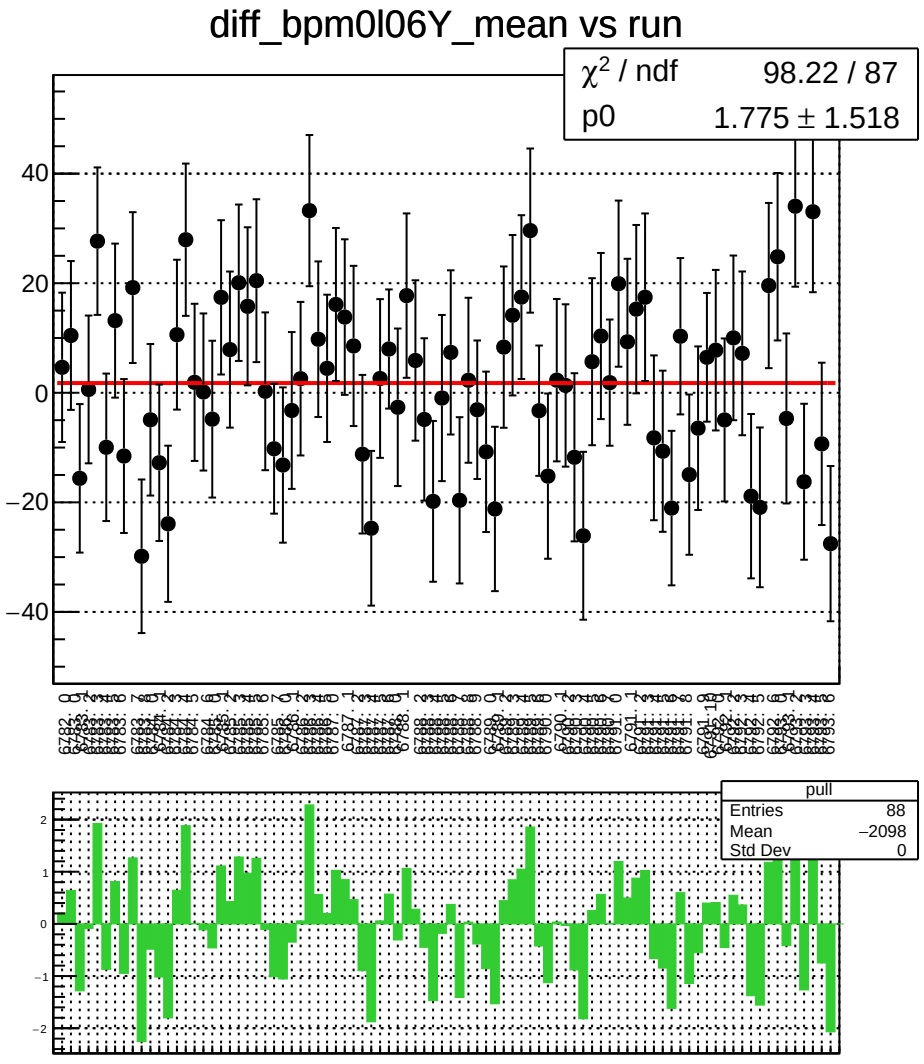

diff_bpm0l05Y_mean vs run
χ² / ndf 103.7 / 87
p0 4.517 ± 1.969
pull
Entries 88
Mean 1406
Std Dev 0
pull1D
Entries 88
Mean −0.002409
Std Dev 1.086

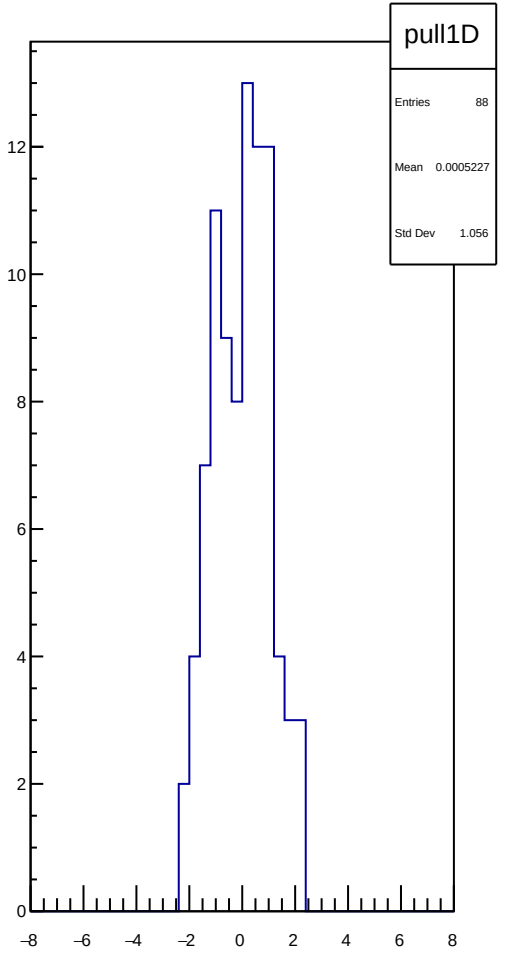

diff_bpm0l05Y_rms vs run
χ² / ndf 3463 / 87
p0 1789 ± 1.392
2100
2000
1900
1800
1700
1600

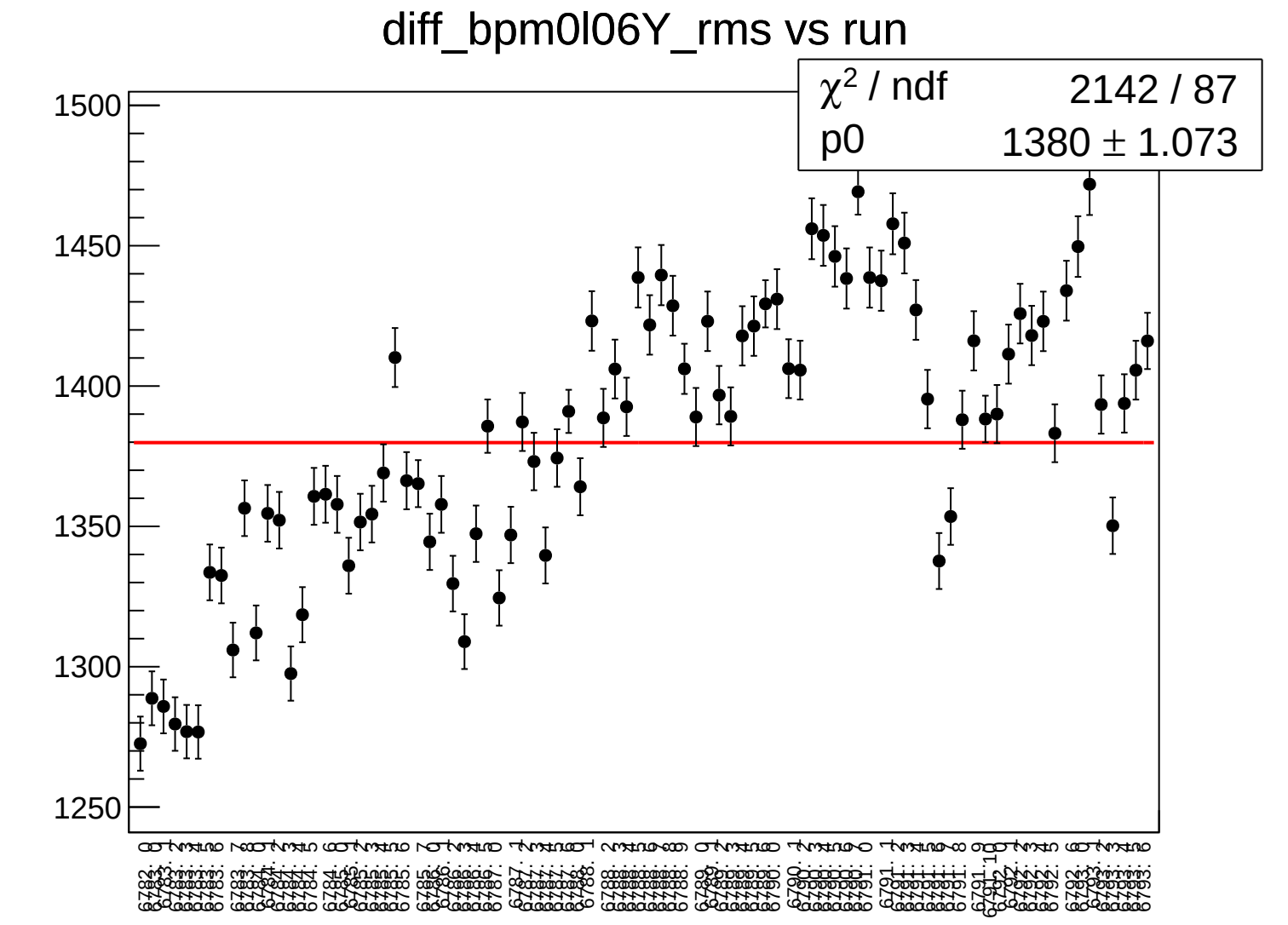

diff_bpm0l06X_mean vs run
χ² / ndf 81.88 / 87
p0 −1.458 ± 7.795
pull
Entries 88
Mean −1012
Std Dev 0

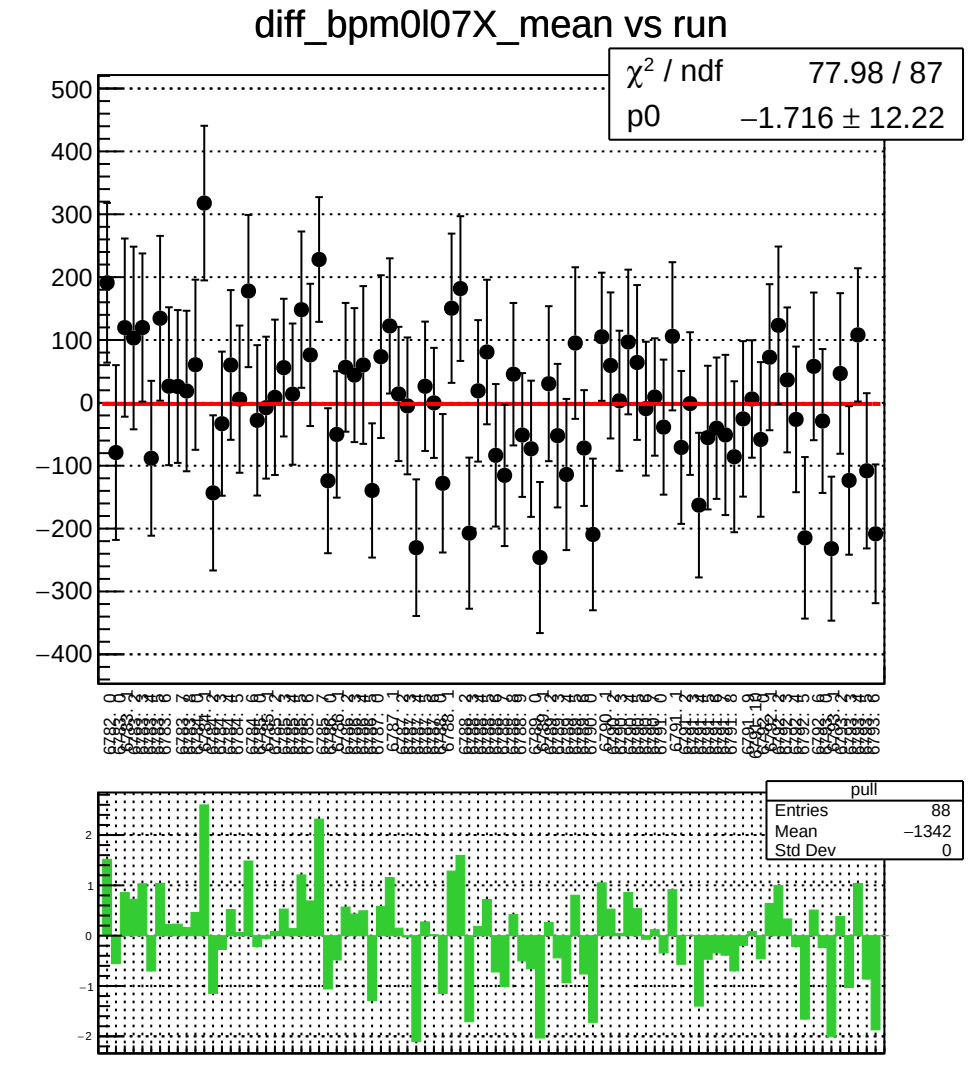

pull1D
Entries 88
Mean 0.007356
Std Dev 0.9646

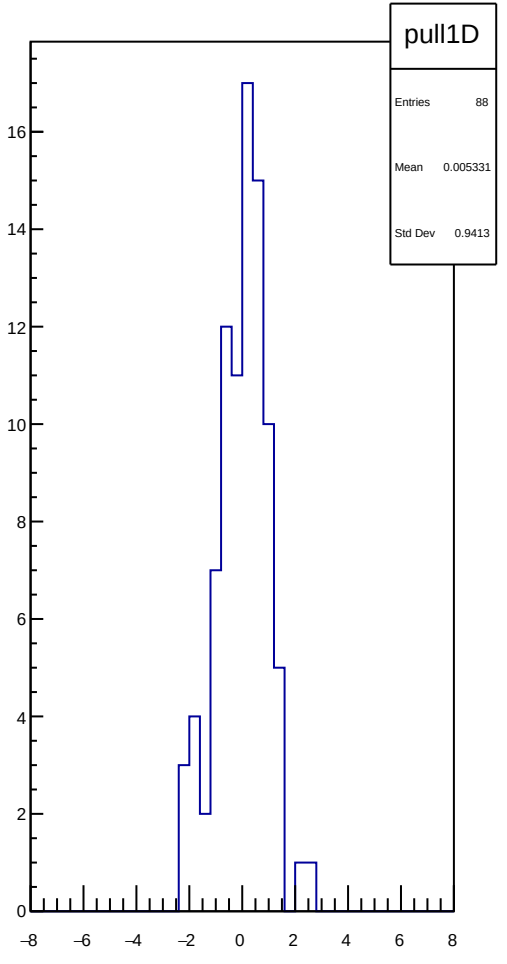

diff_bpm0l06X_rms vs run
χ^2 / ndf 7302 / 87
p0 7075 ± 5.512
9000
8500
8000
7500
7000
6500
6000

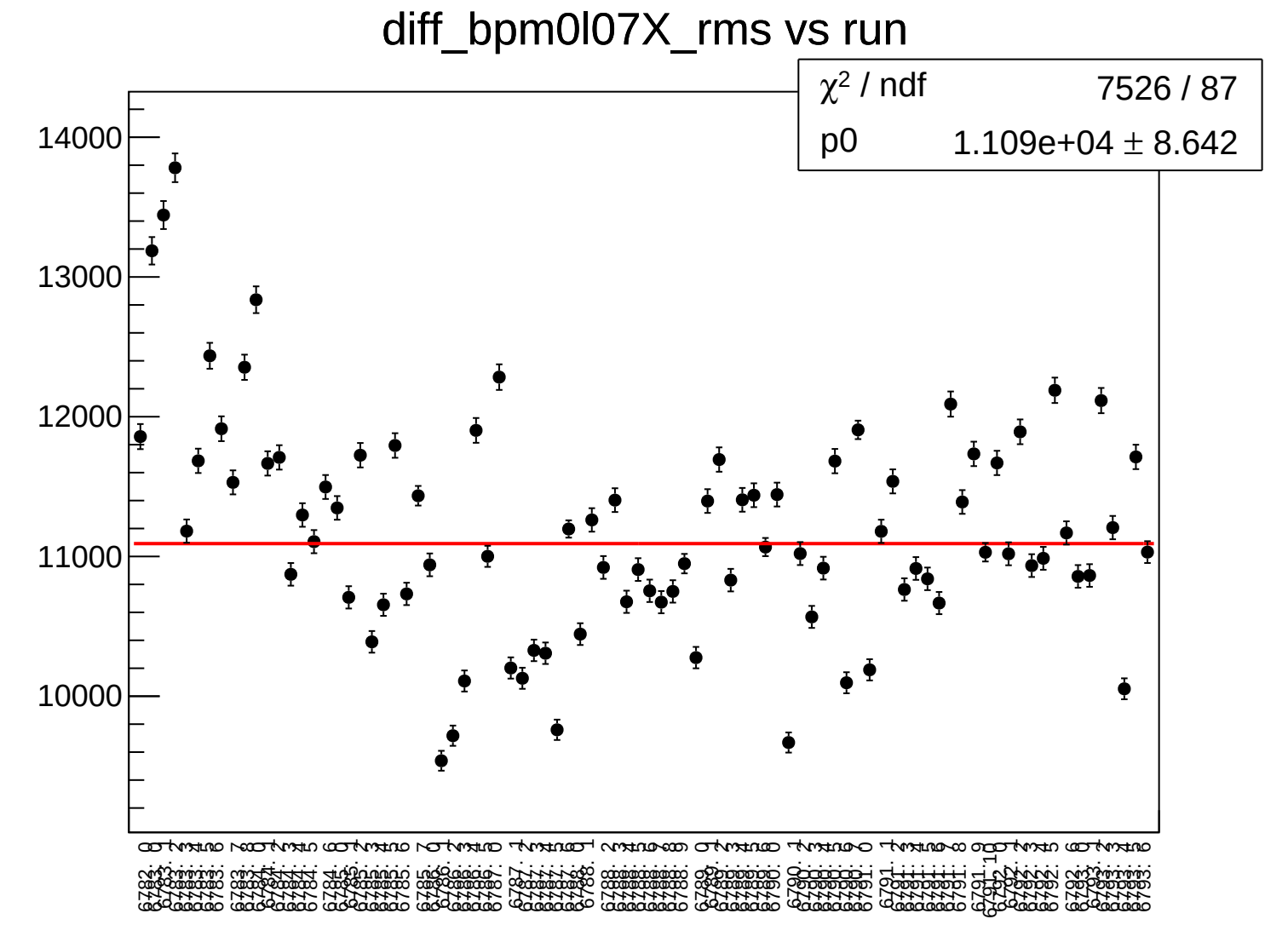

diff_bpm0l06Y_mean vs run
χ² / ndf 98.22 / 87
p0 1.775 ± 1.518
pull
Entries 88
Mean −2098
Std Dev 0

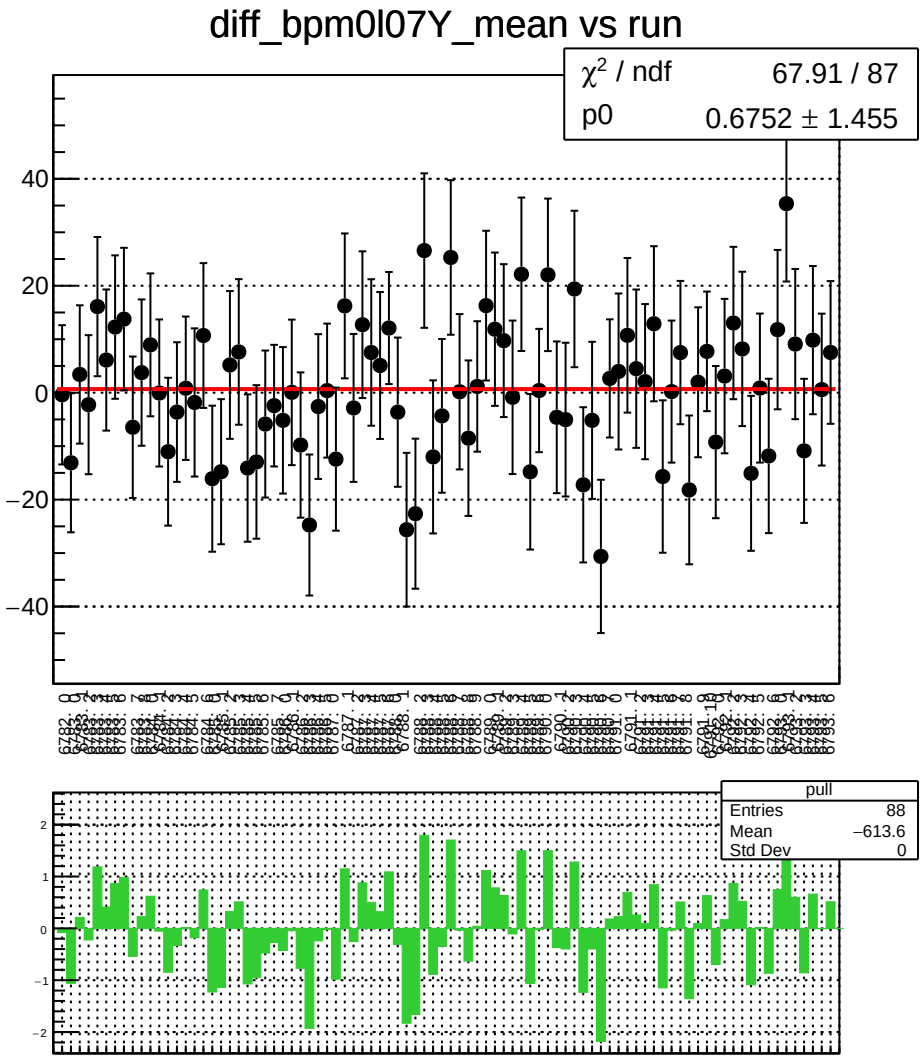

pull1D
Entries 88
Mean 0.0005227
Std Dev 1.056

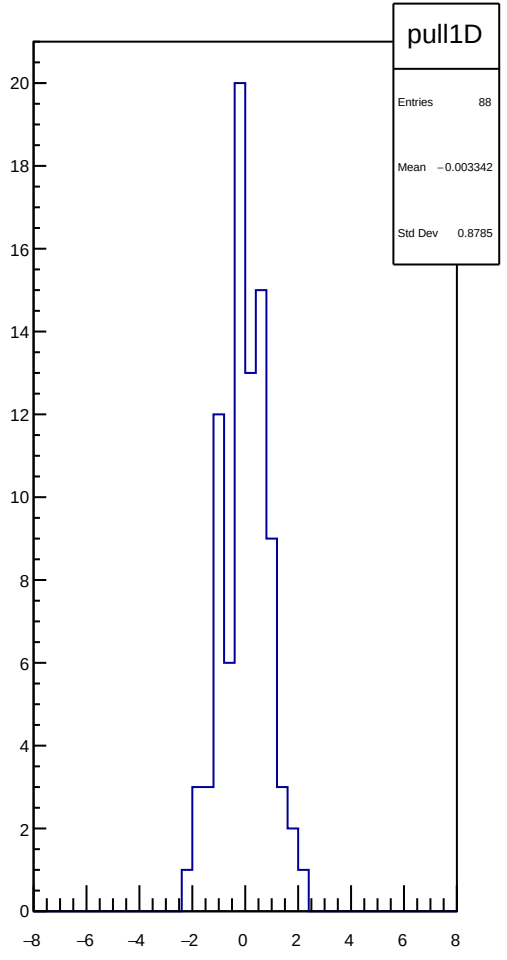

diff_bpm0l06Y_rms vs run
χ² / ndf 2142 / 87
p0 1380 ± 1.073
1500
1450
1400
1350
1300
1250

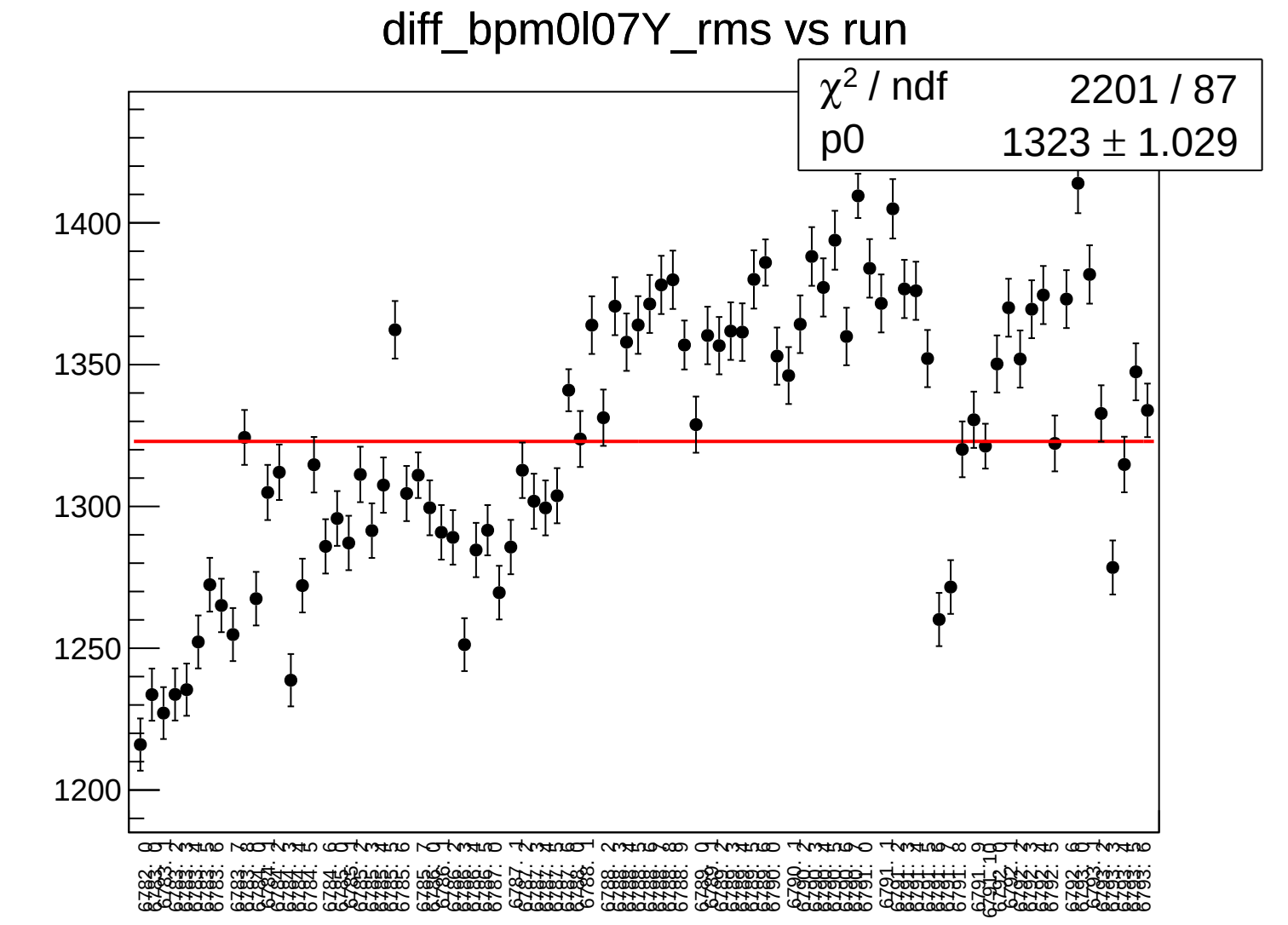

diff_bpm0l07X_mean vs run
χ² / ndf 77.98 / 87
p0 −1.716 ± 12.22
pull
Entries 88
Mean −1342
Std Dev 0

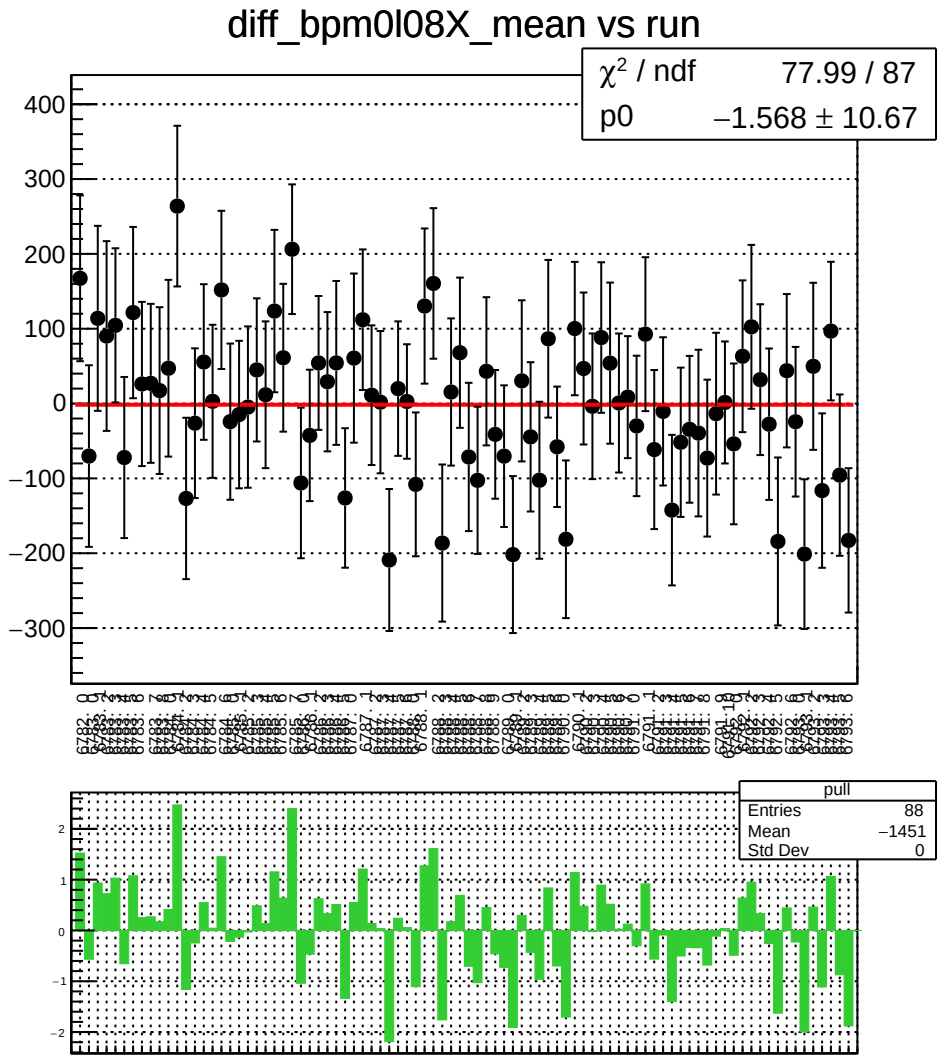

pull1D
Entries 88
Mean 0.005331
Std Dev 0.9413

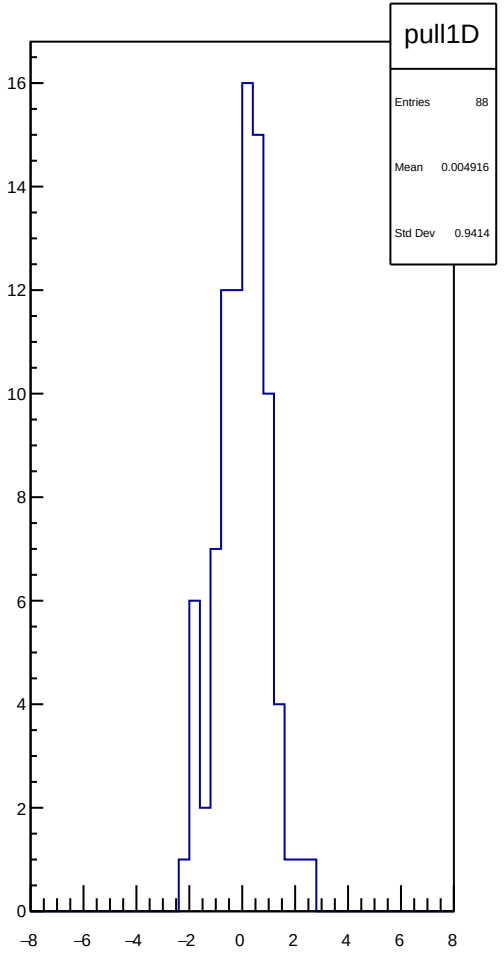

diff_bpm0l07X_rms vs run
χ² / ndf 7526 / 87
p0 1.109e+04 ± 8.642
14000
13000
12000
11000
10000

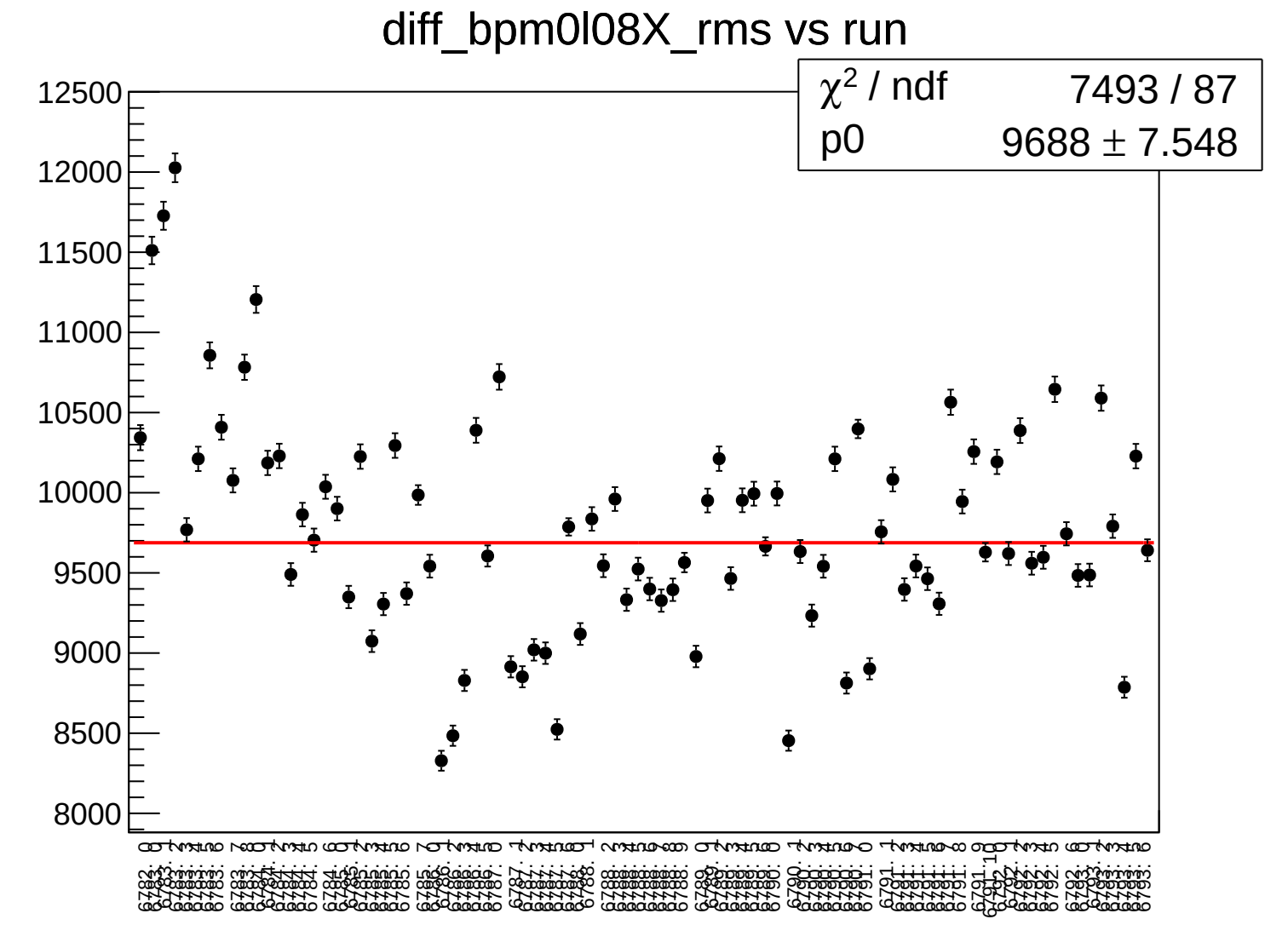

diff_bpm0l07Y_mean vs run
χ² / ndf 67.91 / 87
p0 0.6752 ± 1.455
pull
Entries 88
Mean −613.6
Std Dev 0

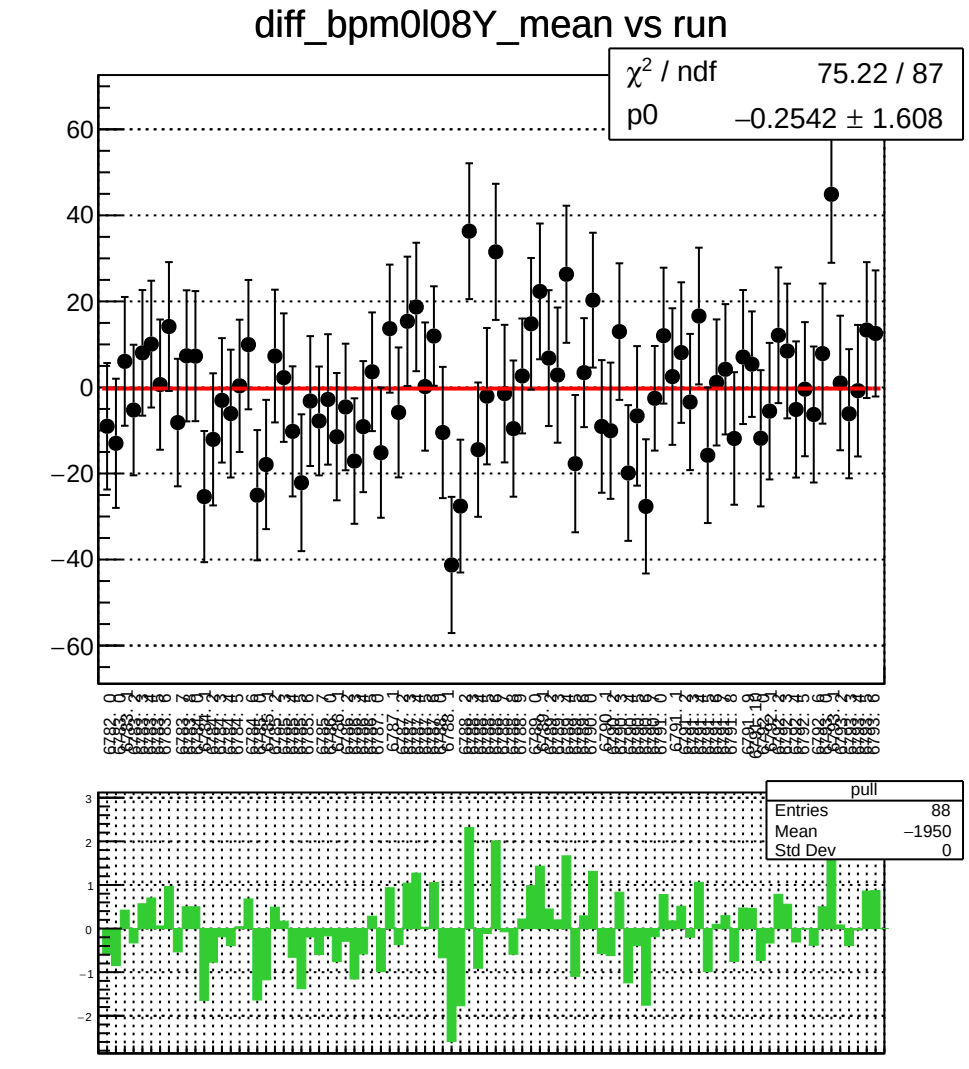

pull1D
Entries 88
Mean −0.003342
Std Dev 0.8785

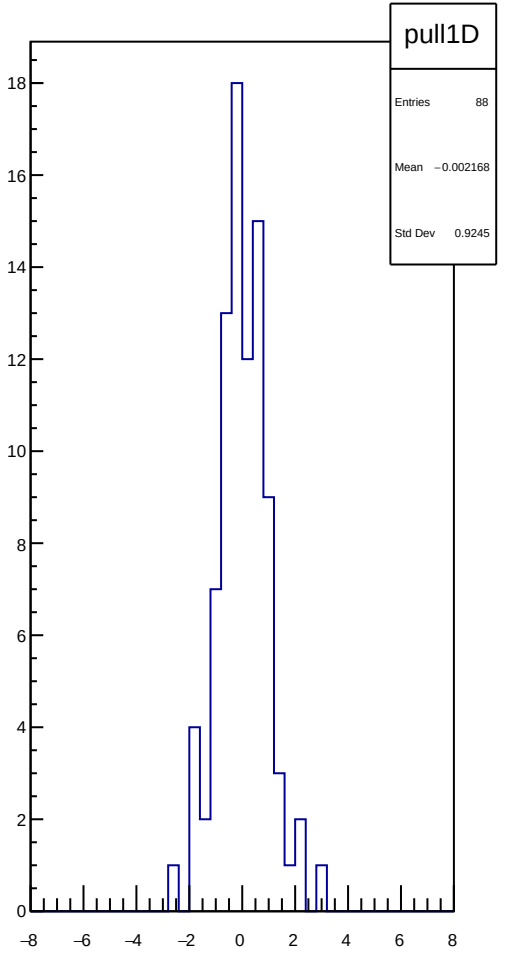

diff_bpm0l07Y_rms vs run
χ² / ndf 2201 / 87
p0 1323 ± 1.029
1400
1350
1300
1250
1200

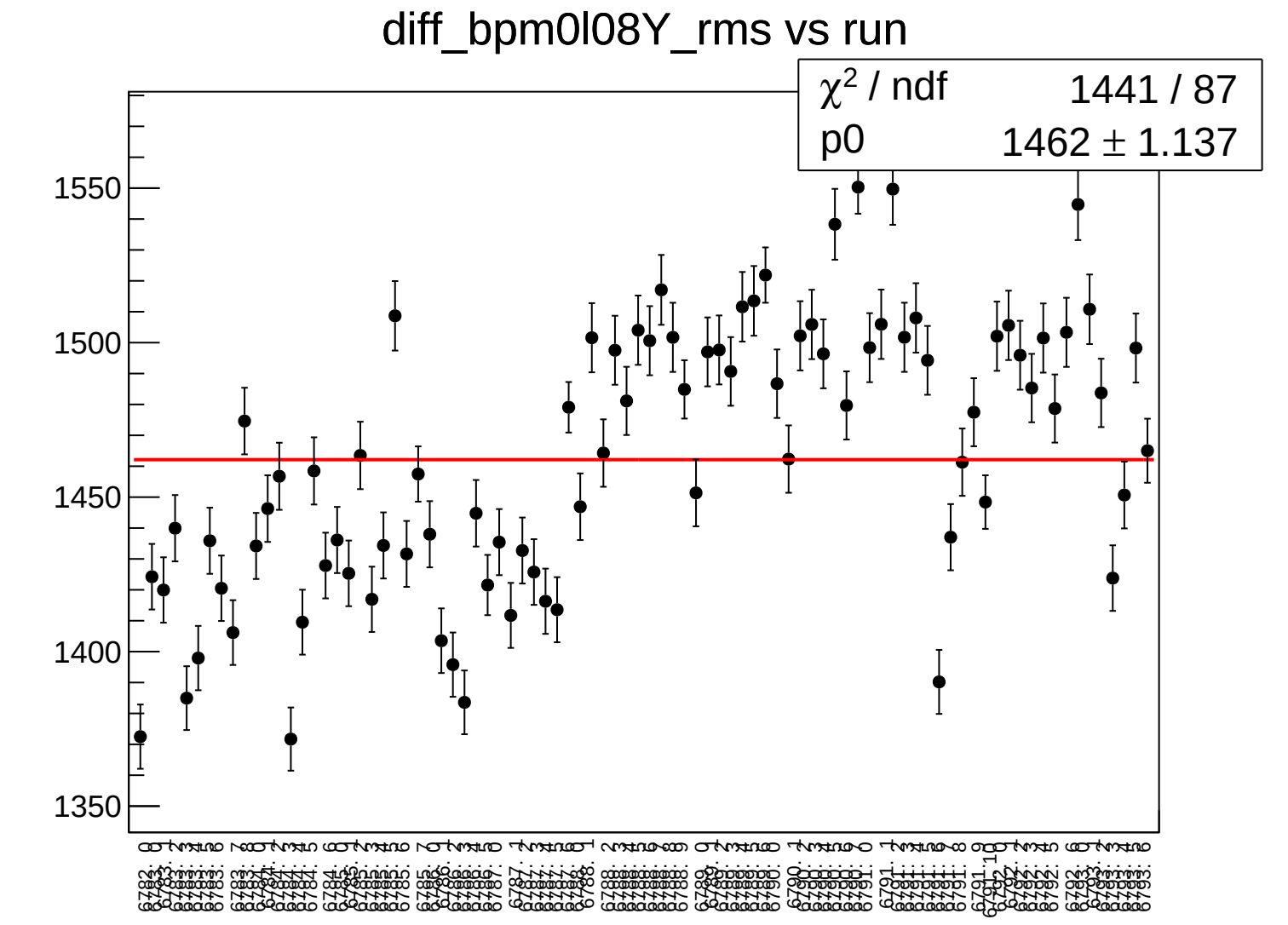

diff_bpm0l08X_mean vs run
χ² / ndf 77.99 / 87
p0 −1.568 ± 10.67
pull
Entries 88
Mean −1451
Std Dev 0

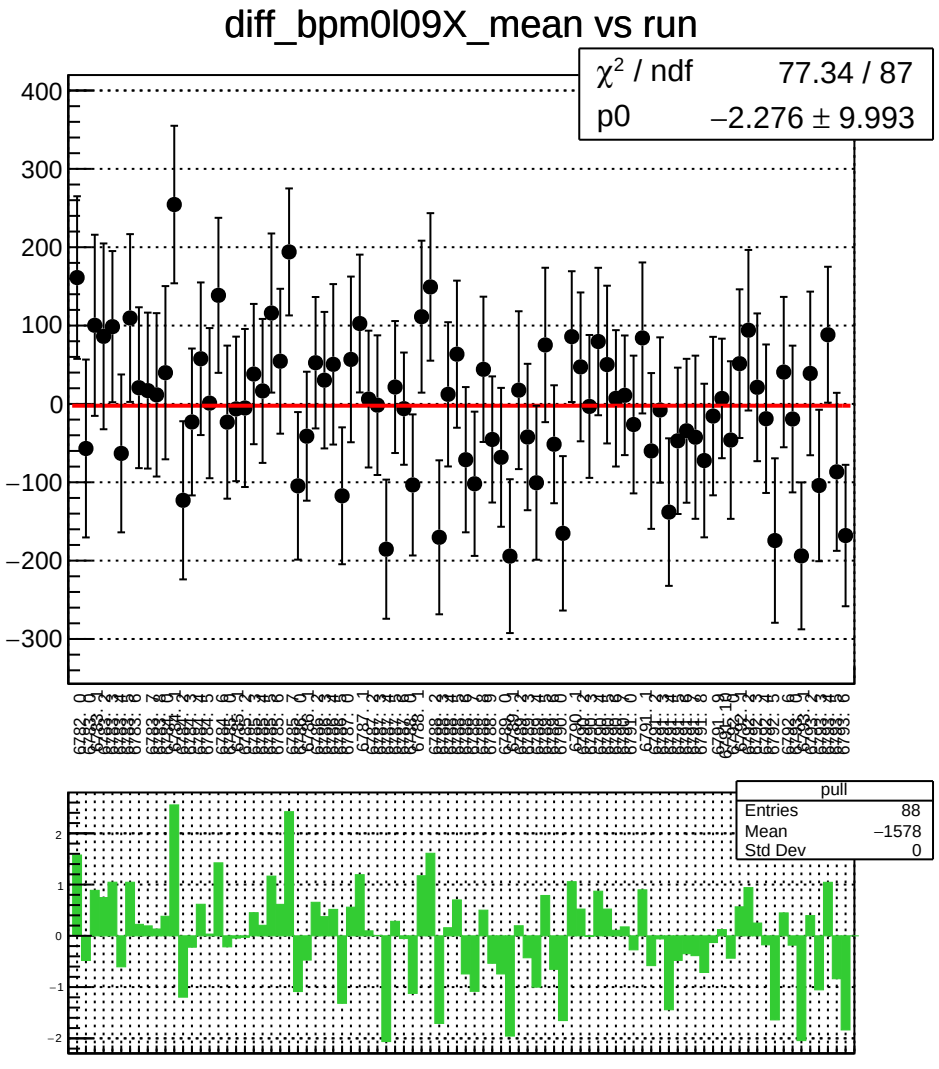

pull1D
Entries 88
Mean 0.004916
Std Dev 0.9414

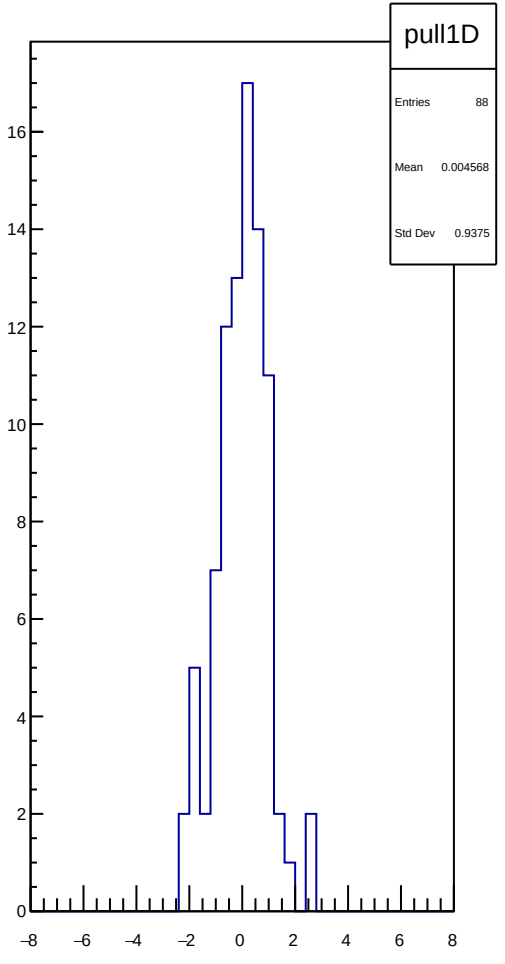

diff_bpm0l08X_rms vs run
χ² / ndf 7493 / 87
p0 9688 ± 7.548
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

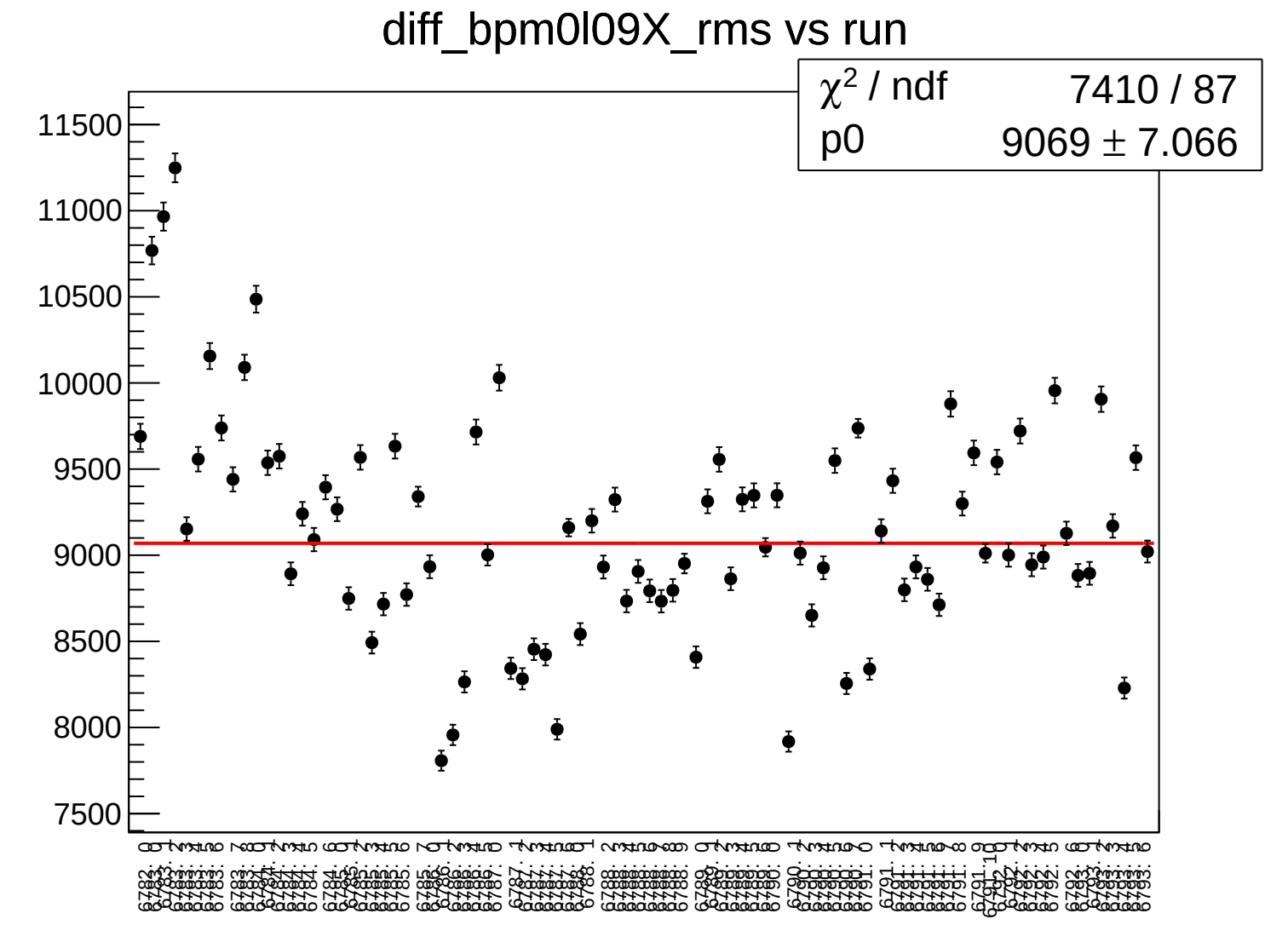

diff_bpm0l08Y_mean vs run
χ² / ndf 75.22 / 87
p0 −0.2542 ± 1.608
pull
Entries 88
Mean −1950
Std Dev 0

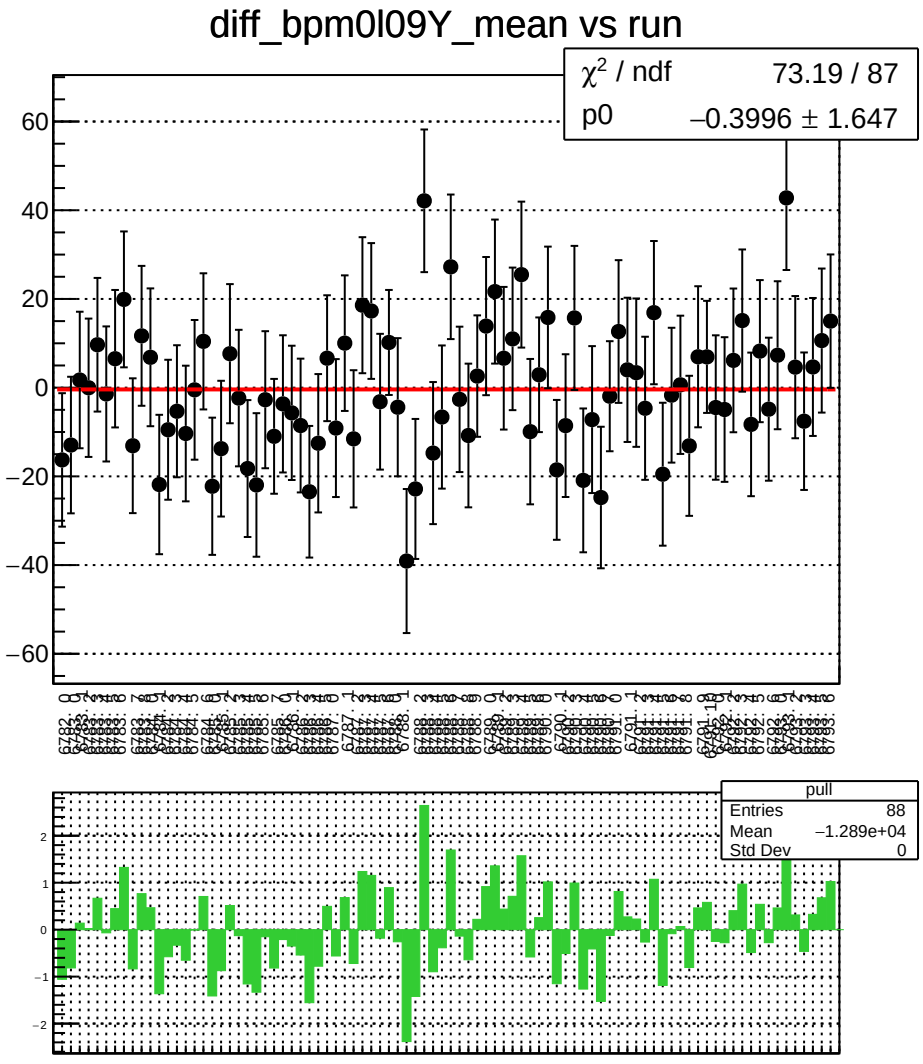

pull1D
Entries 88
Mean −0.002168
Std Dev 0.9245

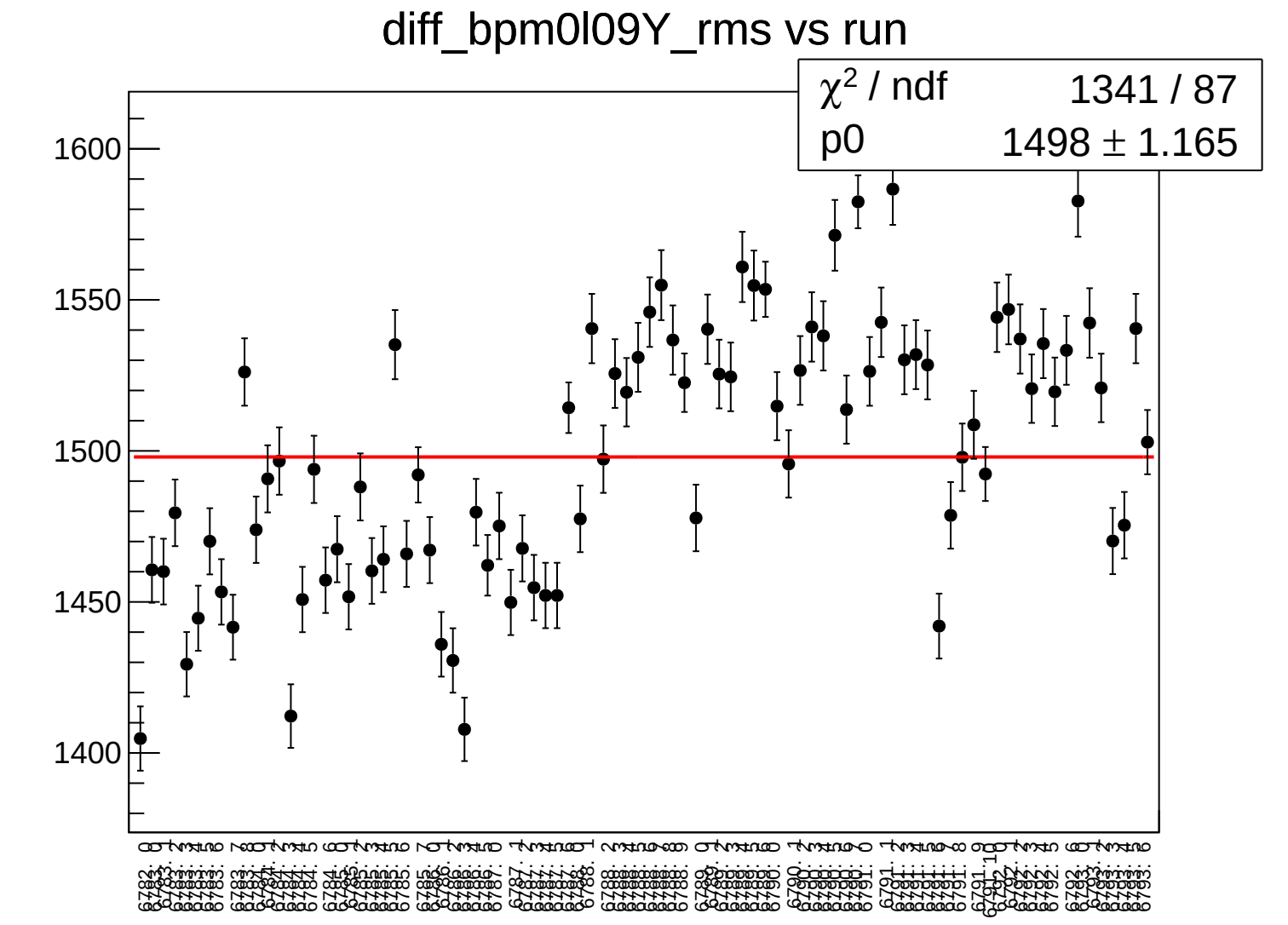

diff_bpm0l08Y_rms vs run
χ² / ndf 1441 / 87
p0 1462 ± 1.137
1550
1500
1450
1400
1350

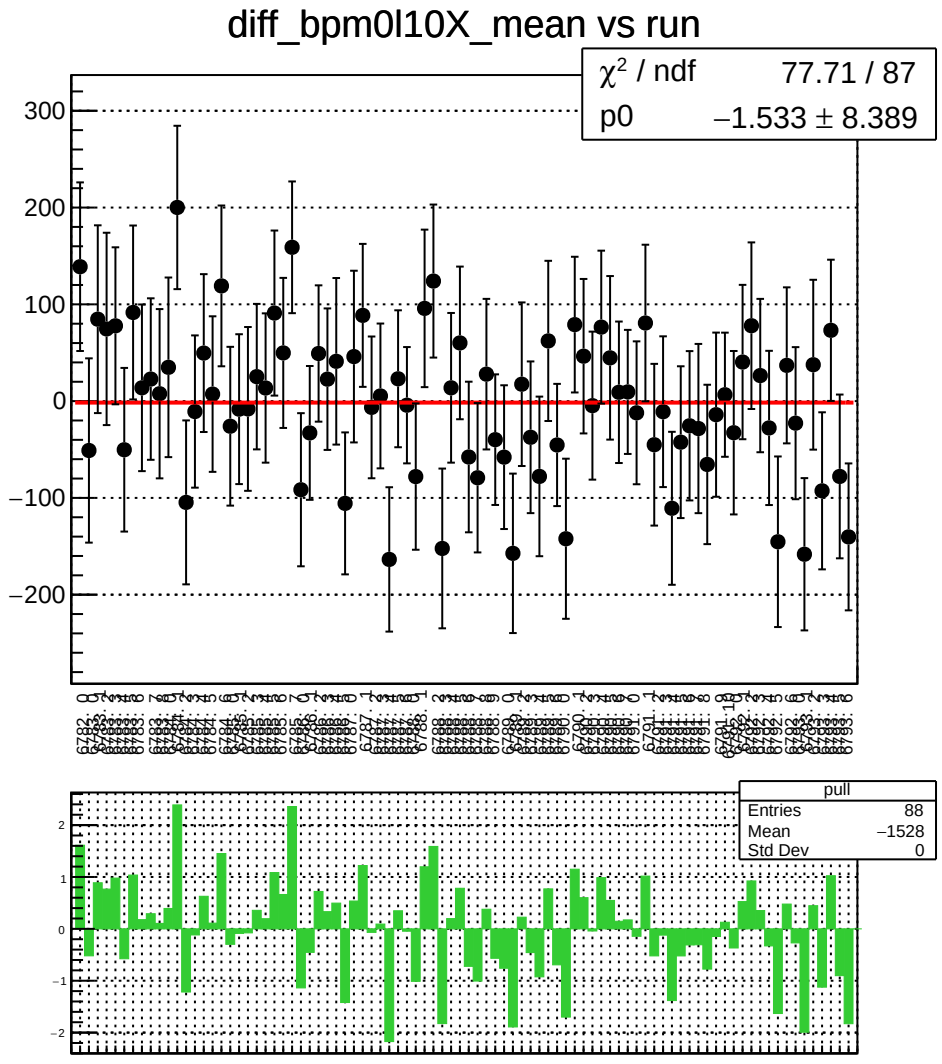

diff_bpm0l09X_mean vs run
χ² / ndf 77.34 / 87
p0 −2.276 ± 9.993
pull
Entries 88
Mean −1578
Std Dev 0

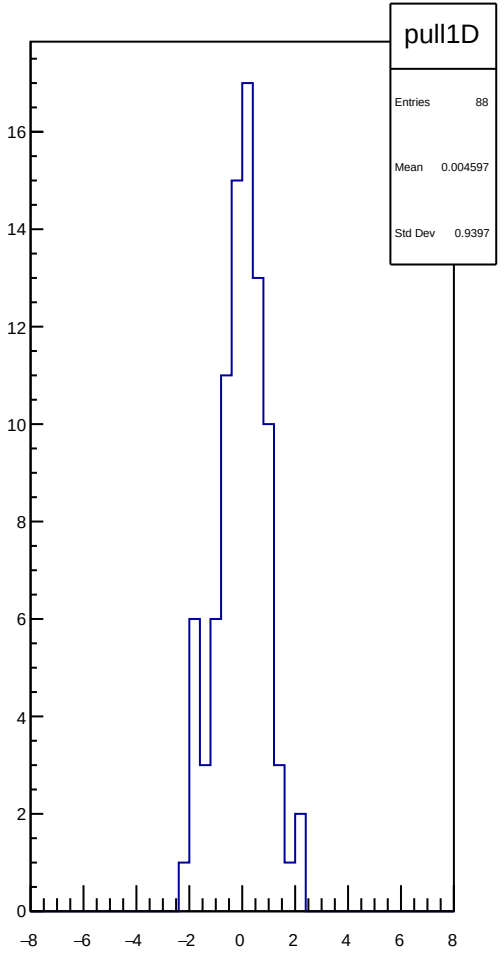

pull1D
Entries 88
Mean 0.004568
Std Dev 0.9375

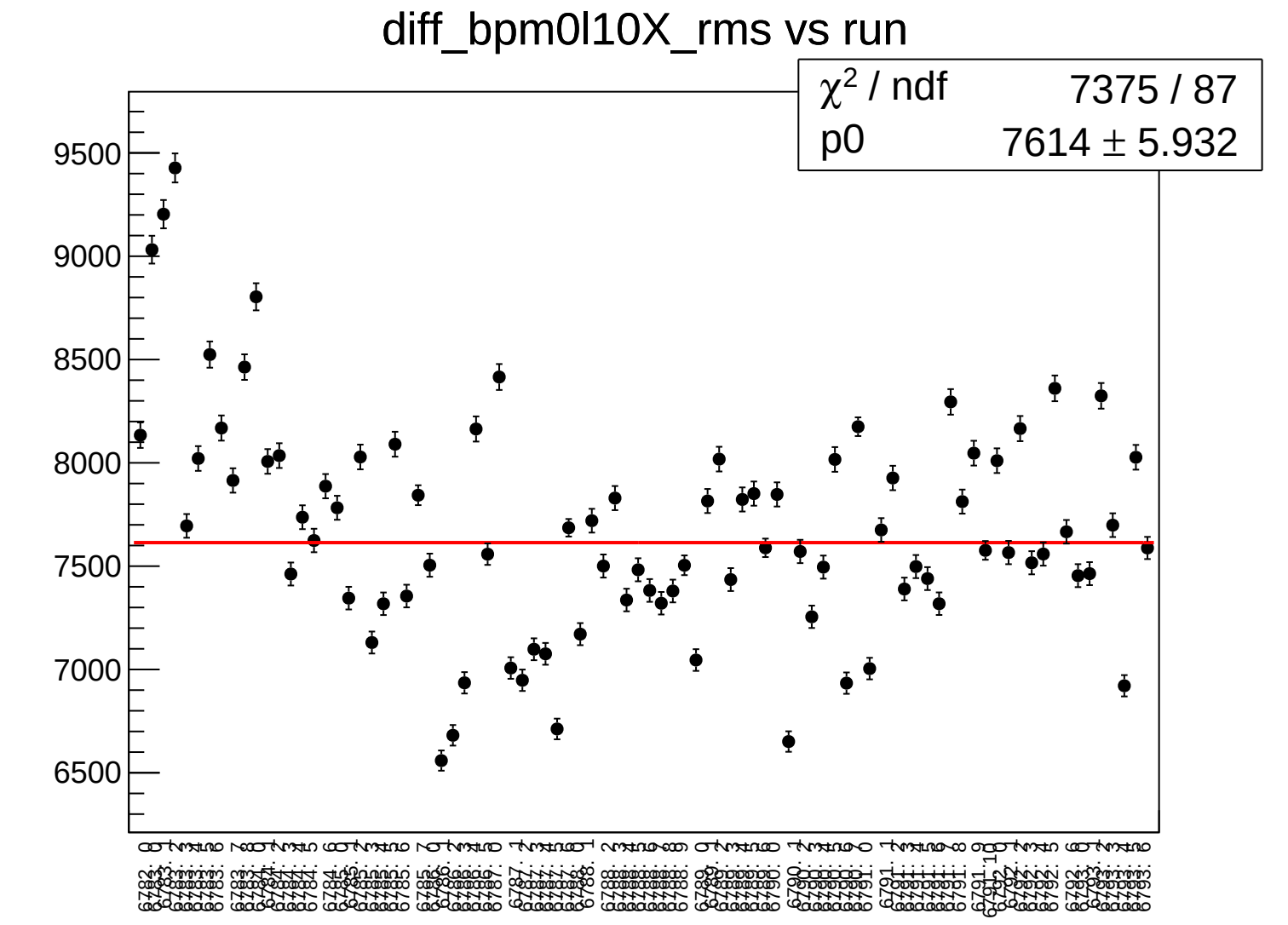

diff_bpm0l09X_rms vs run
χ² / ndf 7410 / 87
p0 9069 ± 7.066
11500
11000
10500
10000
9500
9000
8500
8000
7500

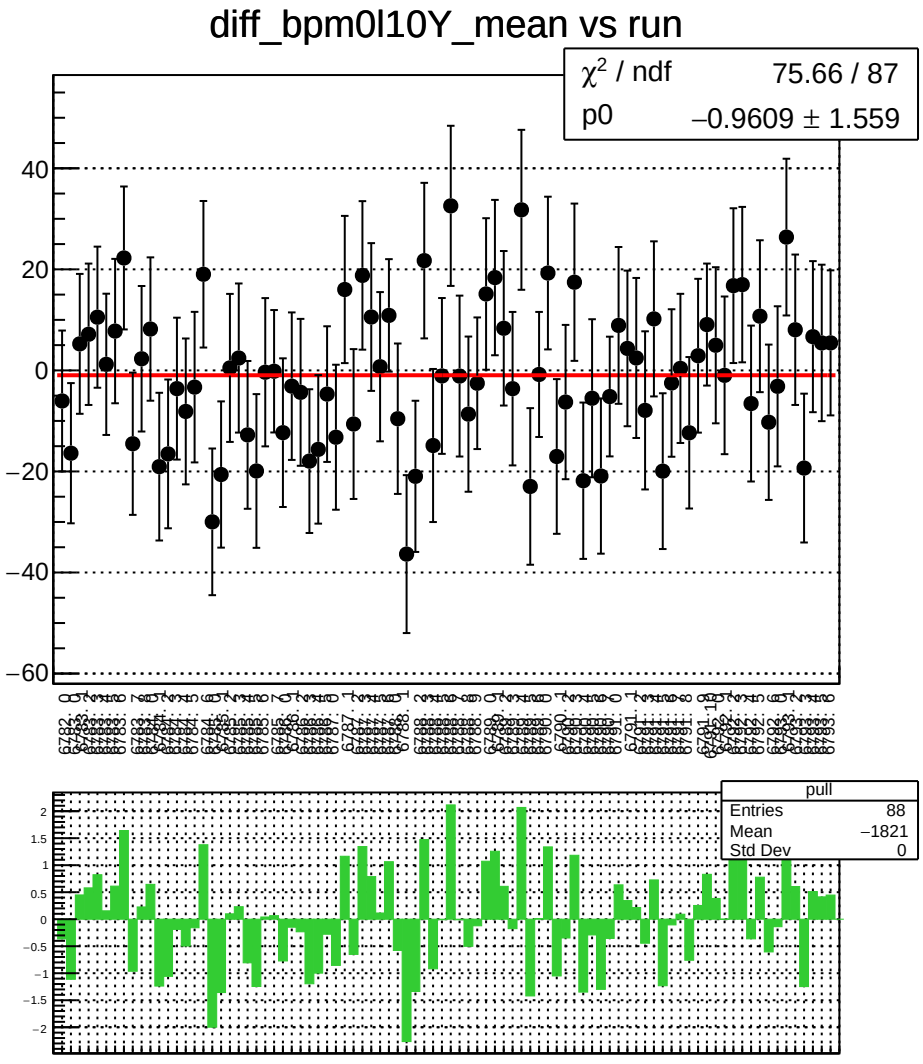

diff_bpm0l09Y_mean vs run
χ² / ndf 73.19 / 87
p0 −0.3996 ± 1.647
pull
Entries 88
Mean −1.289e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0003817
Std Dev 0.9119

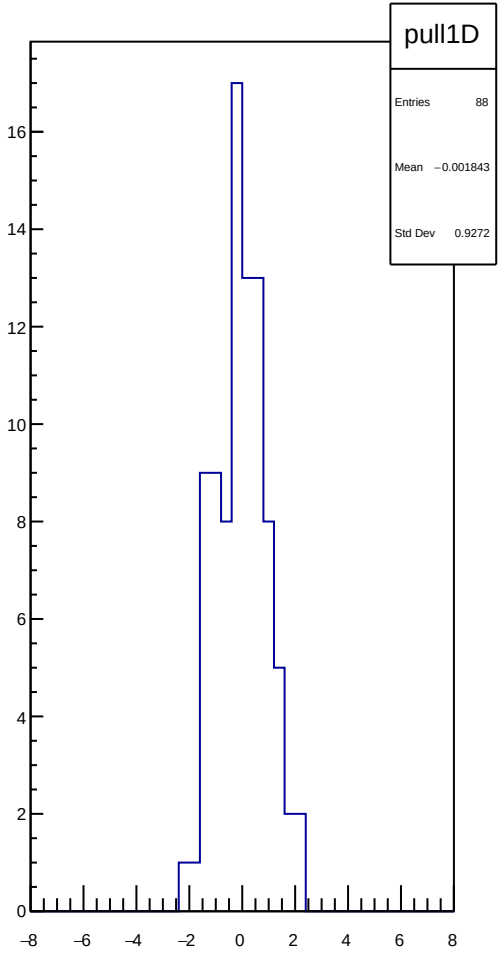

diff_bpm0l09Y_rms vs run
χ² / ndf 1341 / 87
p0 1498 ± 1.165
1600
1550
1500
1450
1400

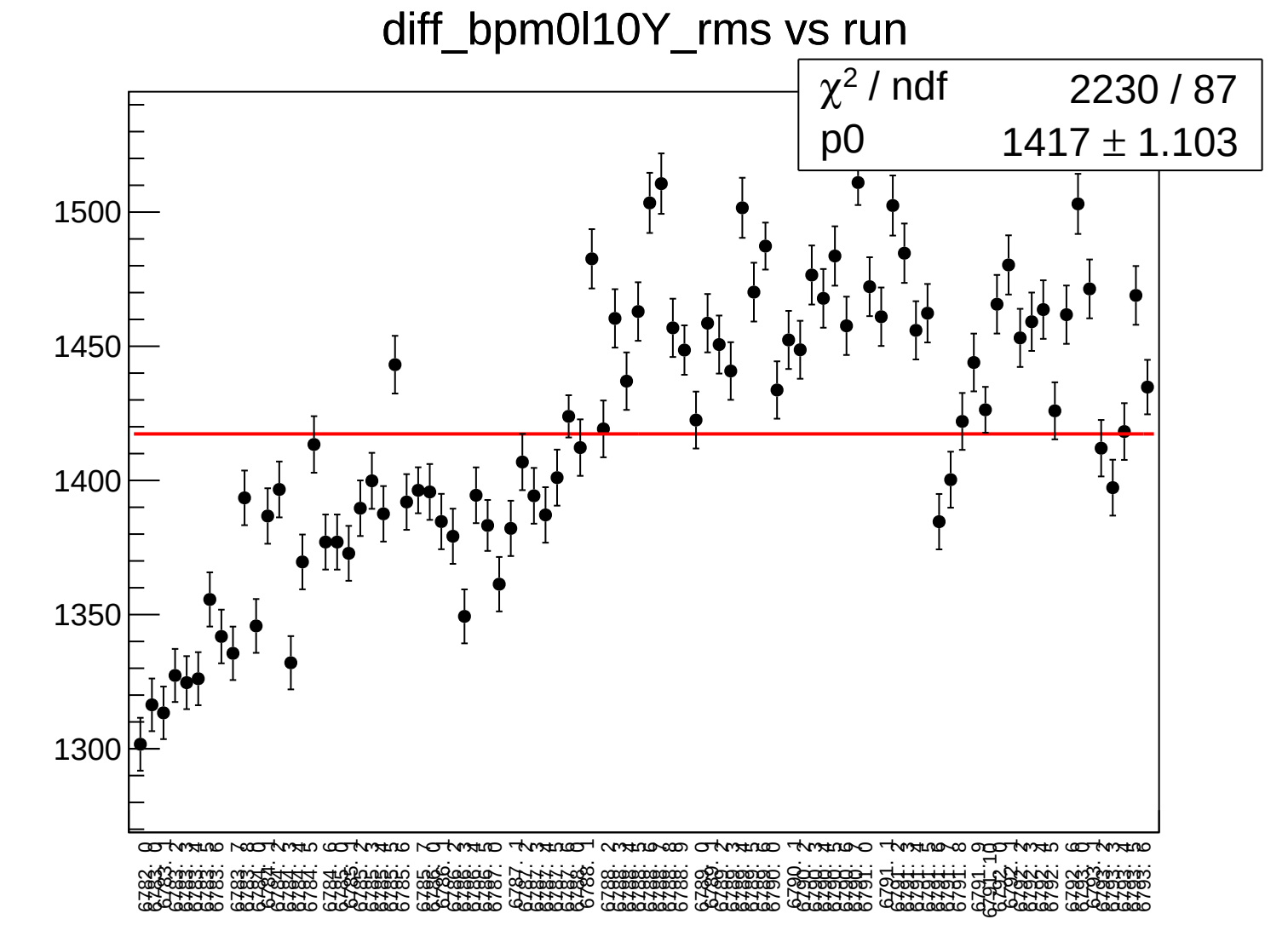

diff_bpm0l10X_mean vs run
χ² / ndf 77.71 / 87
p0 −1.533 ± 8.389
pull
Entries 88
Mean −1528
Std Dev 0

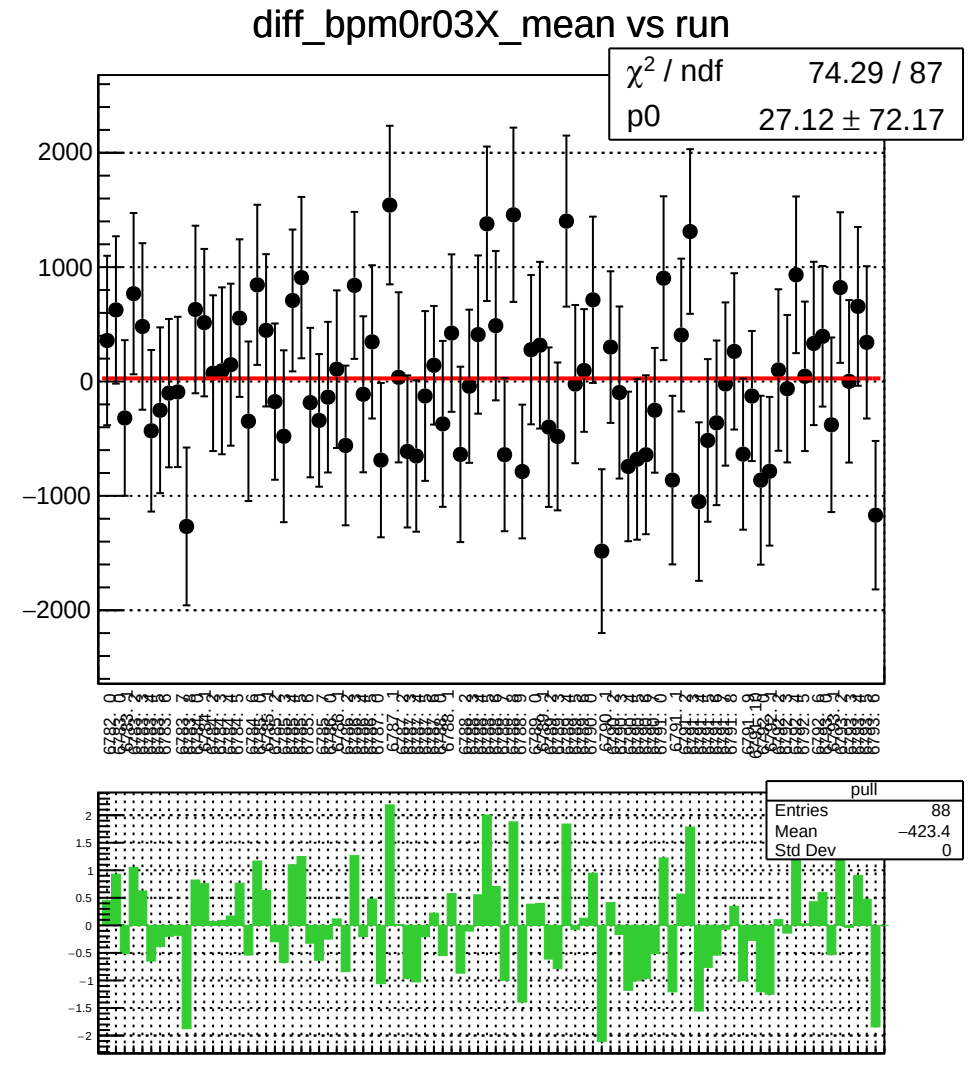

pull1D
Entries 88
Mean 0.004597
Std Dev 0.9397

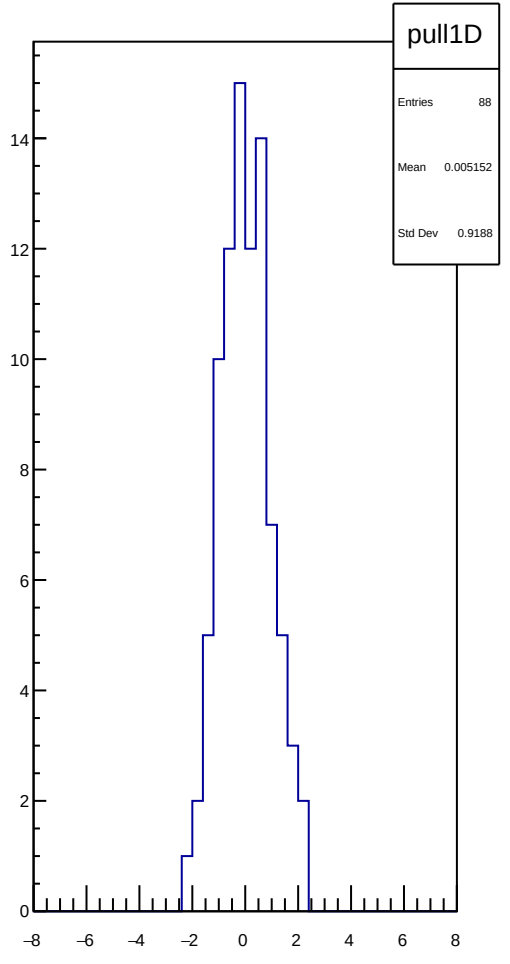

diff_bpm0l10X_rms vs run
χ^2 / ndf 7375 / 87
p0 7614 ± 5.932
9500
9000
8500
8000
7500
7000
6500

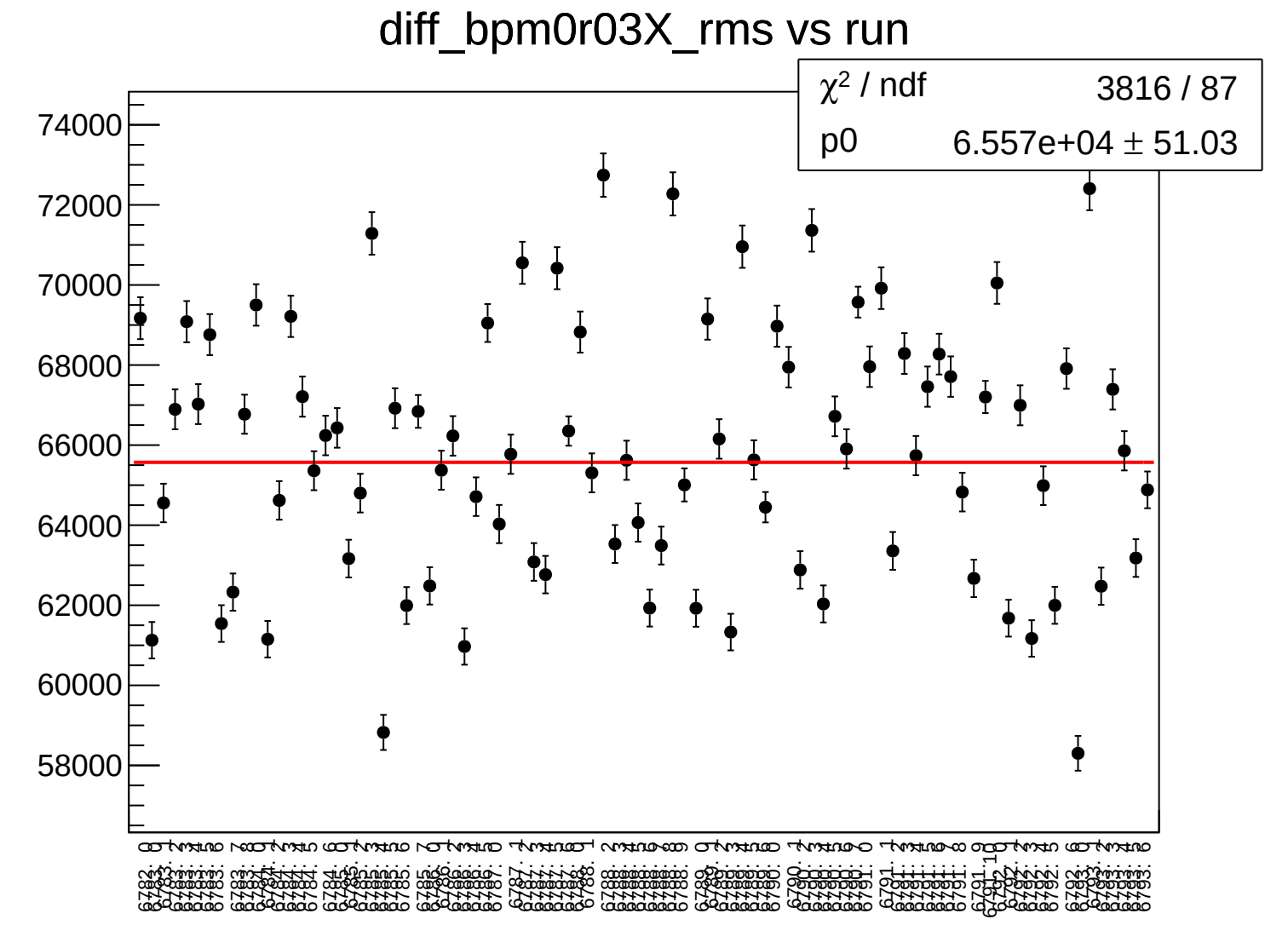

diff_bpm0l10Y_mean vs run
χ² / ndf 75.66 / 87
p0 −0.9609 ± 1.559
pull
Entries 88
Mean −1821
Std Dev 0

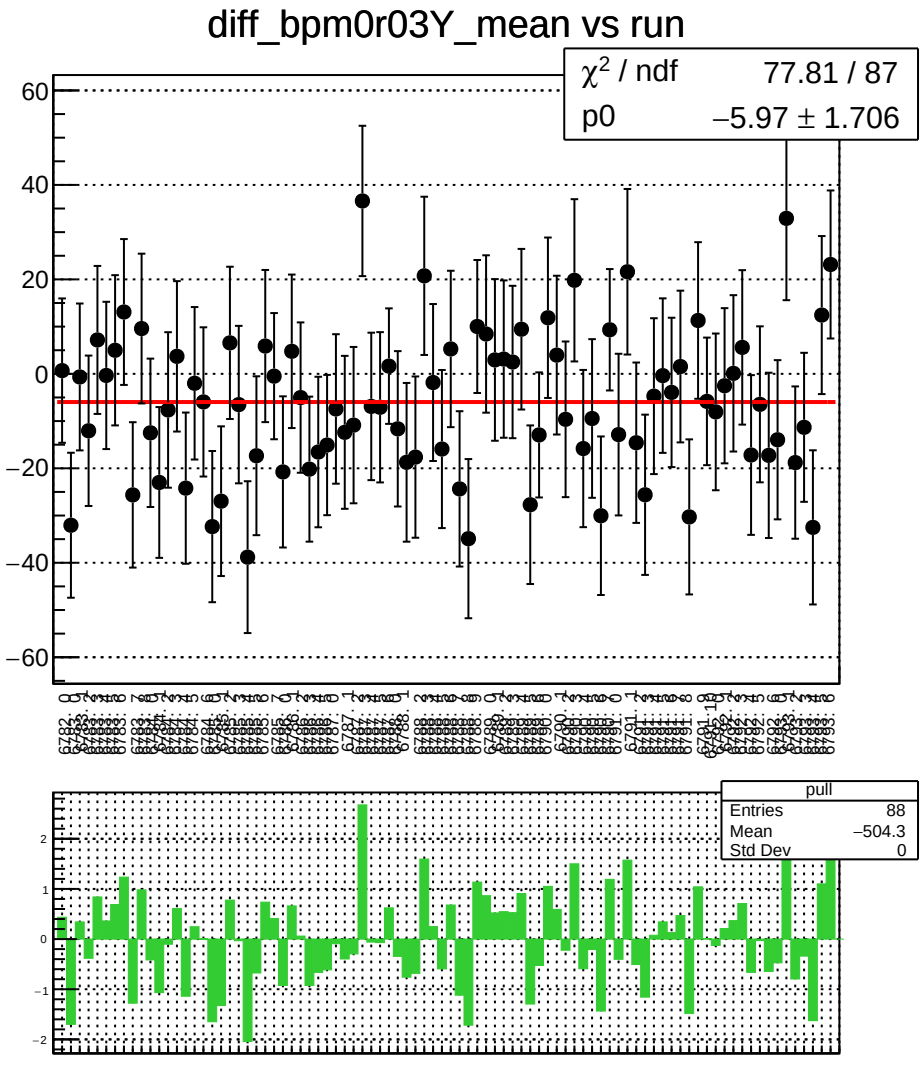

pull1D
Entries 88
Mean −0.001843
Std Dev 0.9272

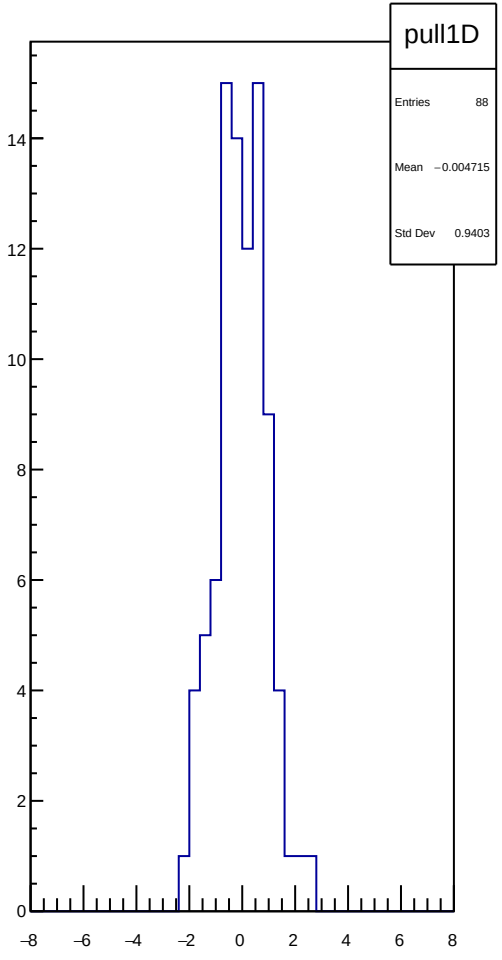

diff_bpm0l10Y_rms vs run
χ² / ndf 2230 / 87
p0 1417 ± 1.103
1500
1450
1400
1350
1300

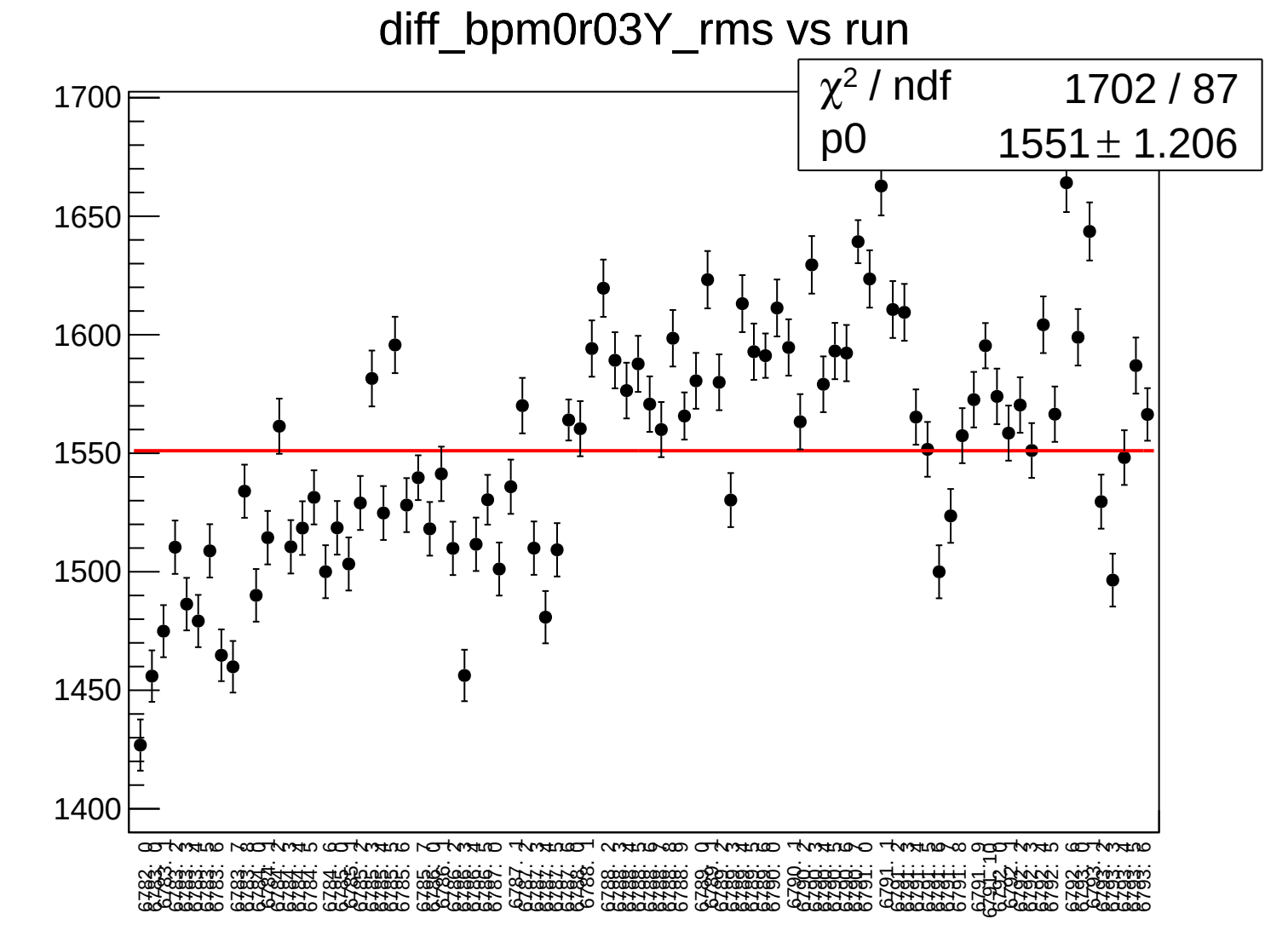

diff_bpm0r03X_mean vs run
χ^2 / ndf 74.29 / 87
p0 27.12 ± 72.17
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −423.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

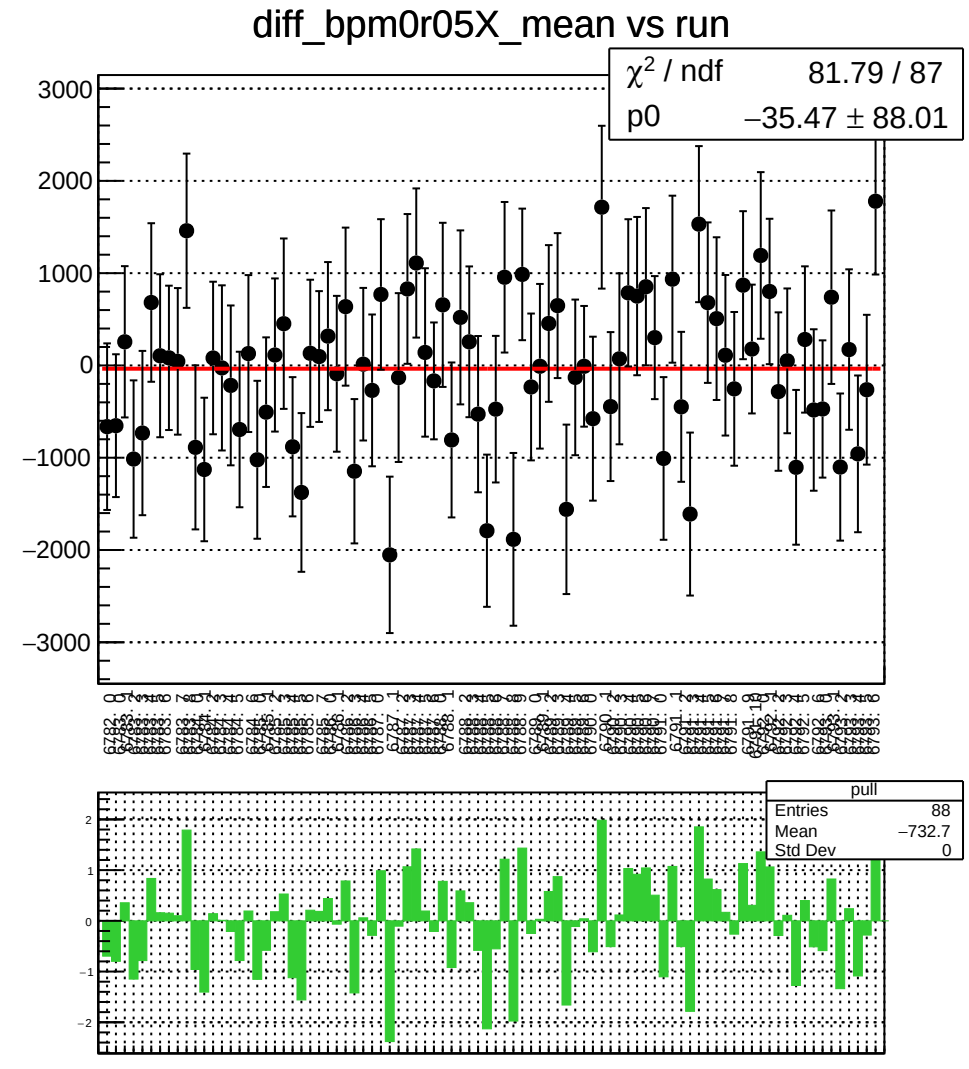

pull1D
Entries 88
Mean 0.005152
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

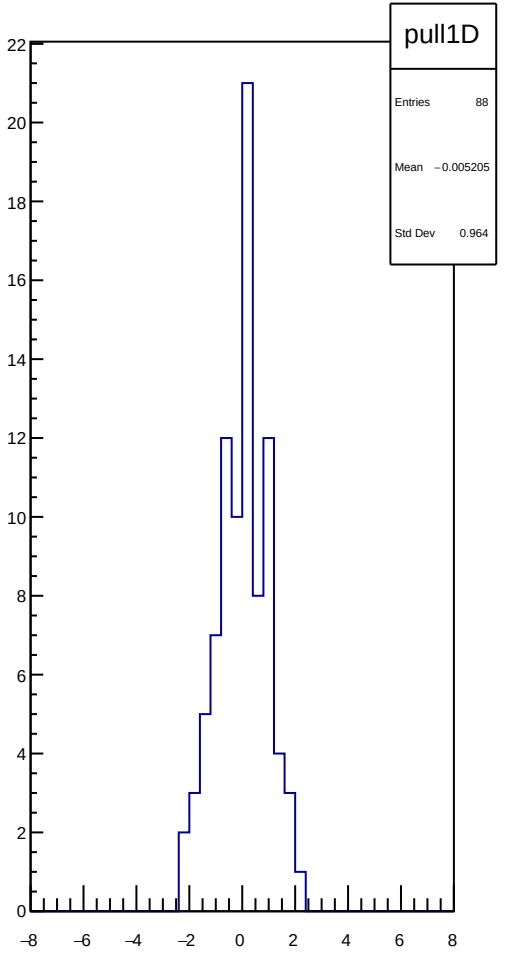

diff_bpm0r03X_rms vs run
χ² / ndf 3816 / 87
p0 6.557e+04 ± 51.03
74000
72000
70000
68000
66000
64000
62000
60000
58000

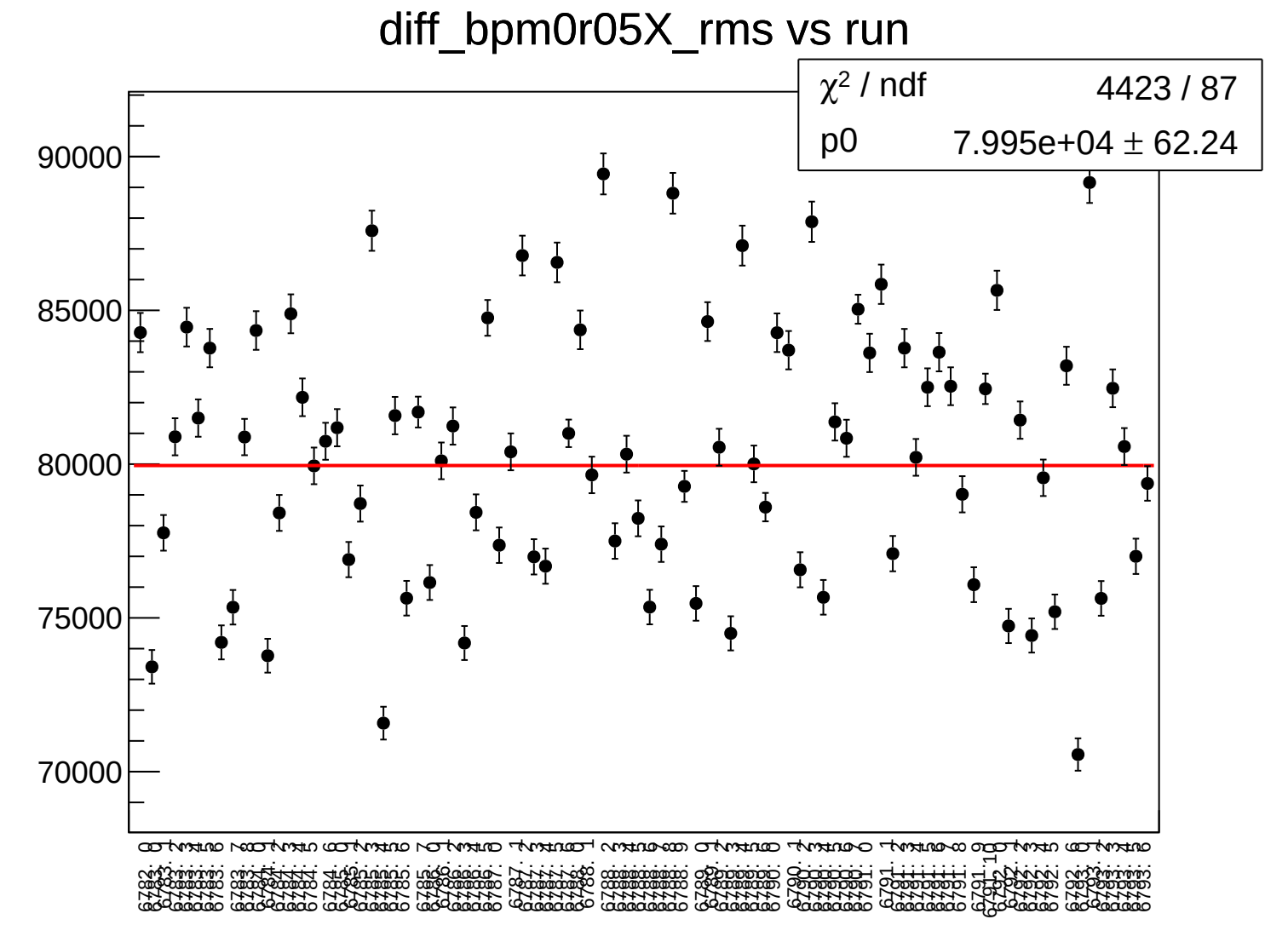

diff_bpm0r03Y_mean vs run
χ^2 / ndf 77.81 / 87
p0 −5.97 ± 1.706
pull
Entries 88
Mean −504.3
Std Dev 0

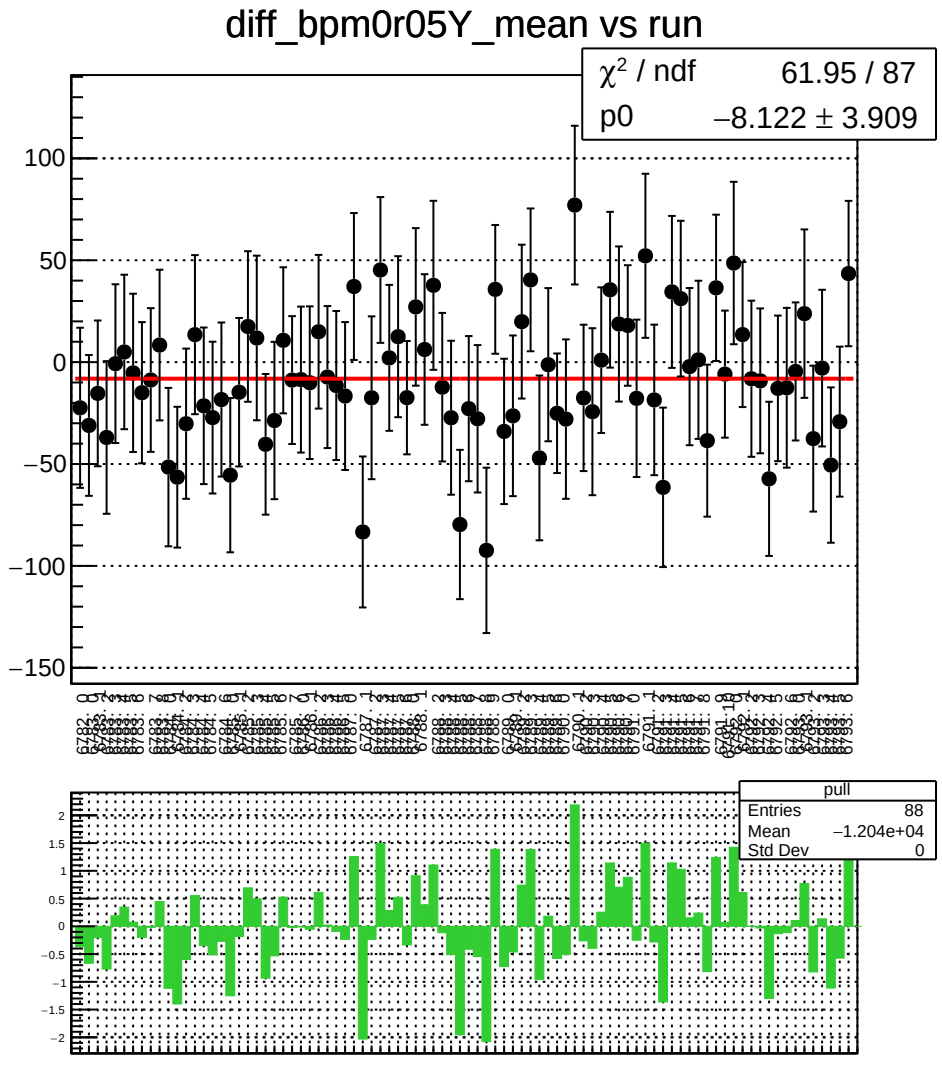

pull1D
Entries 88
Mean −0.004715
Std Dev 0.9403

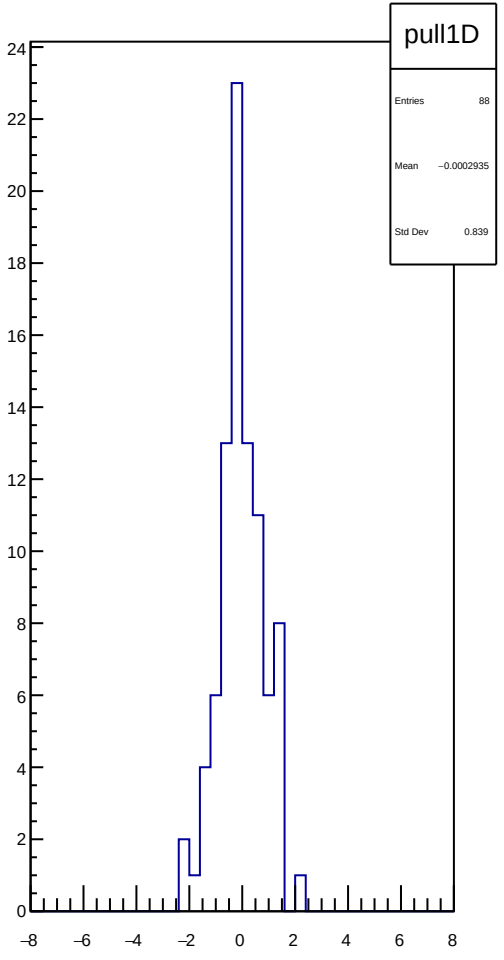

diff_bpm0r03Y_rms vs run
χ² / ndf 1702 / 87
p0 1551 ± 1.206
1700
1650
1600
1550
1500
1450
1400

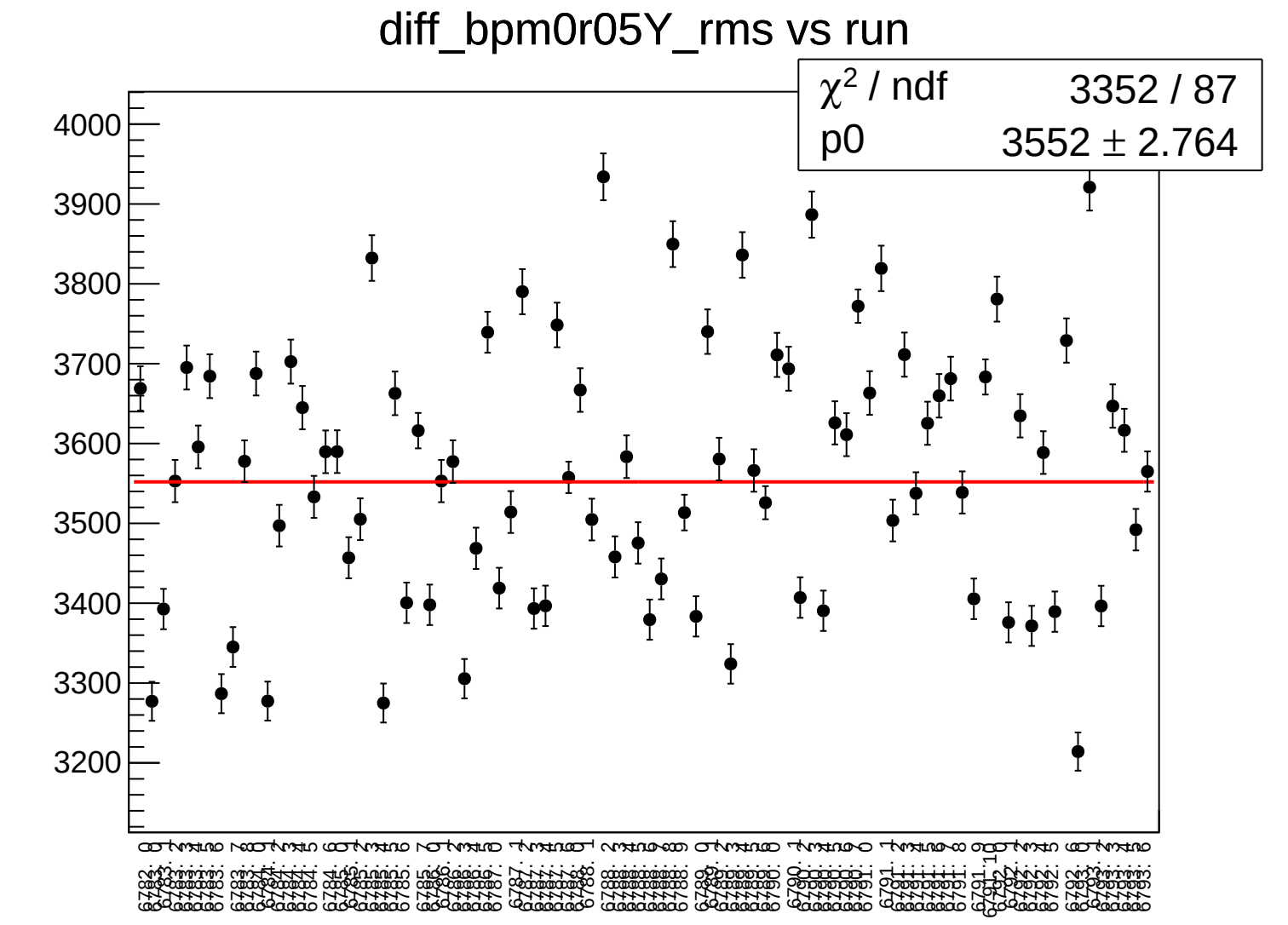

diff_bpm0r05X_mean vs run
χ² / ndf 81.79 / 87
p0 −35.47 ± 88.01
pull
Entries 88
Mean −732.7
Std Dev 0

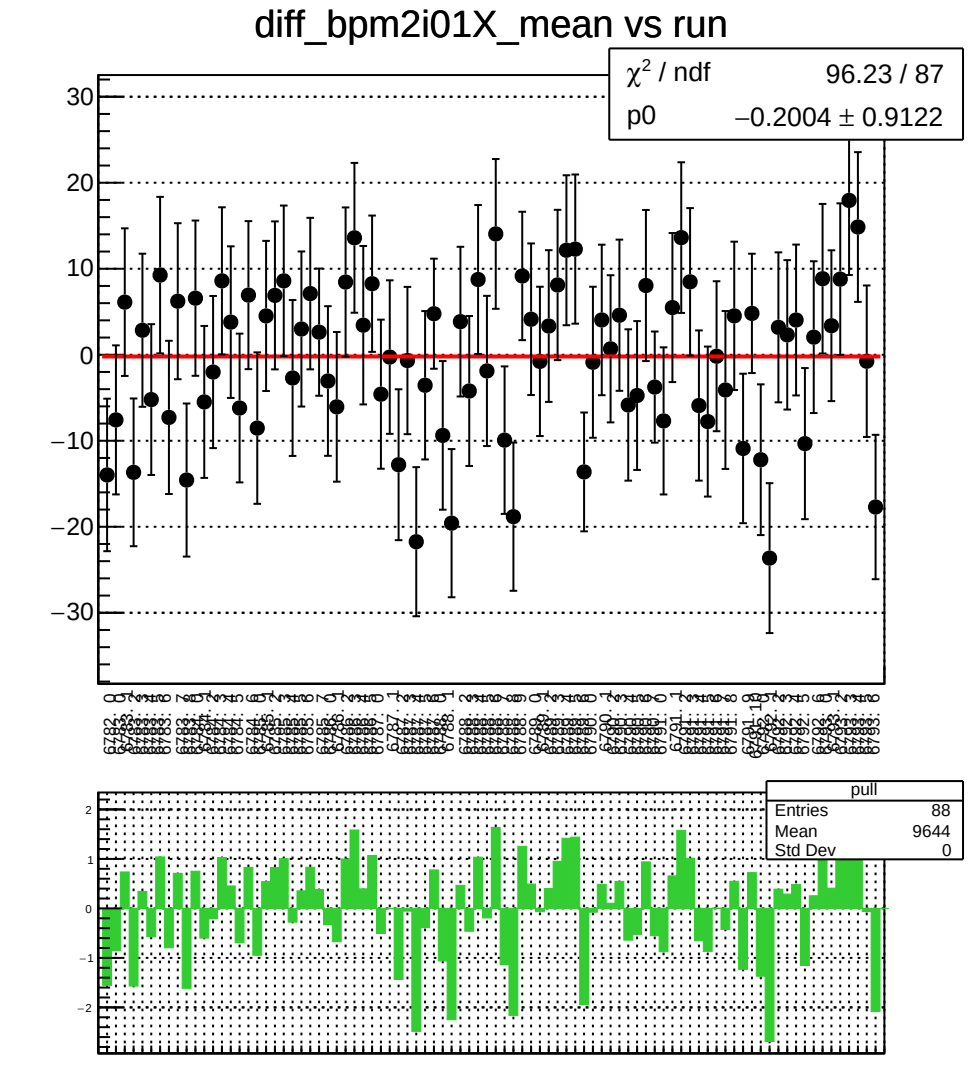

pull1D
Entries 88
Mean −0.005205
Std Dev 0.964

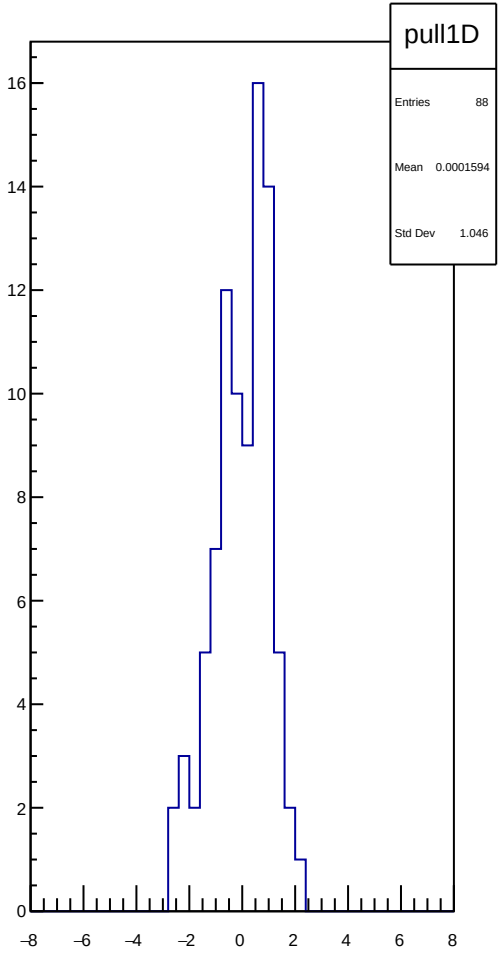

diff_bpm0r05X_rms vs run
χ² / ndf 4423 / 87
p0 7.995e+04 ± 62.24
90000
85000
80000
75000
70000

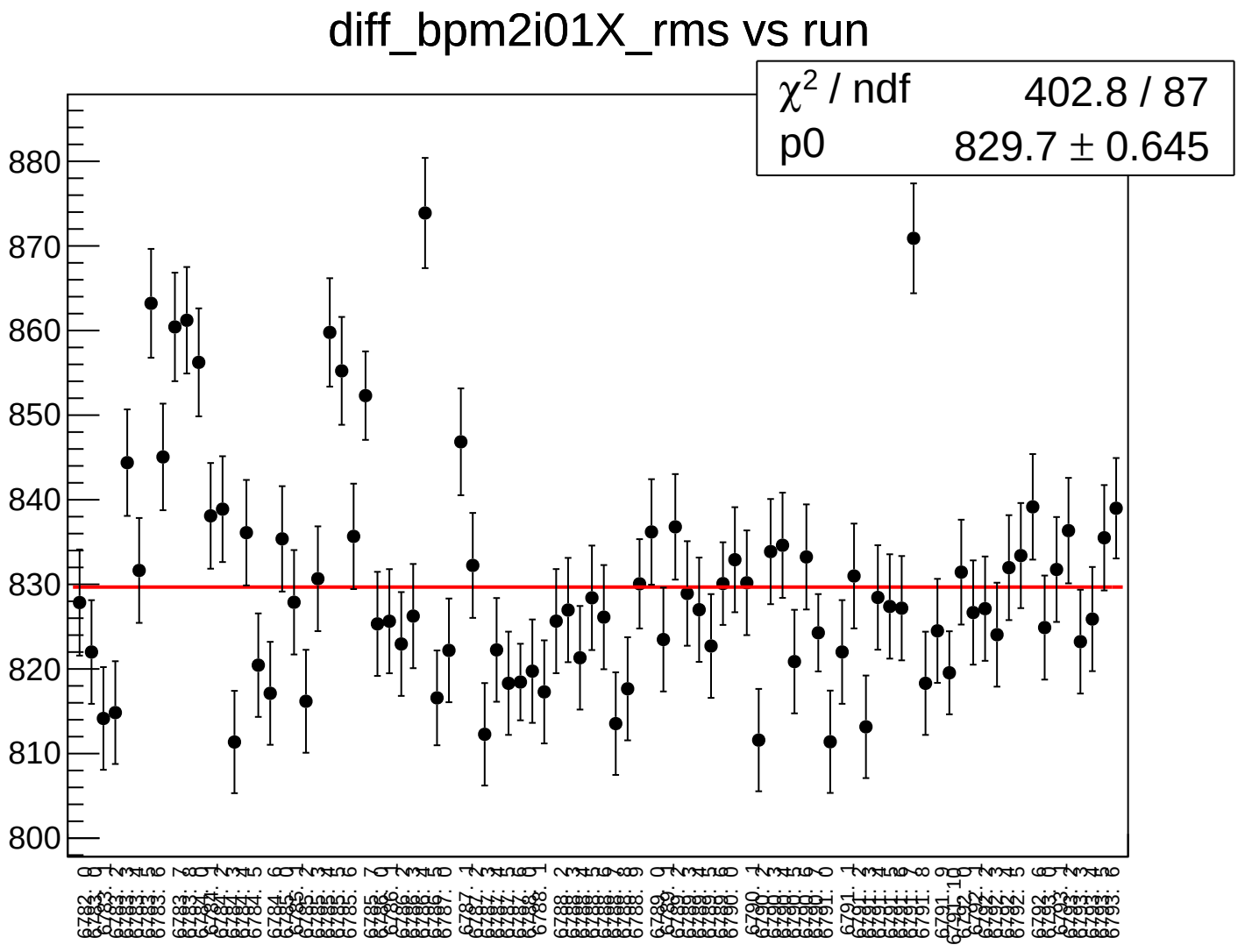

diff_bpm0r05Y_mean vs run
χ² / ndf 61.95 / 87
p0 −8.122 ± 3.909
pull
Entries 88
Mean −1.204e+04
Std Dev 0

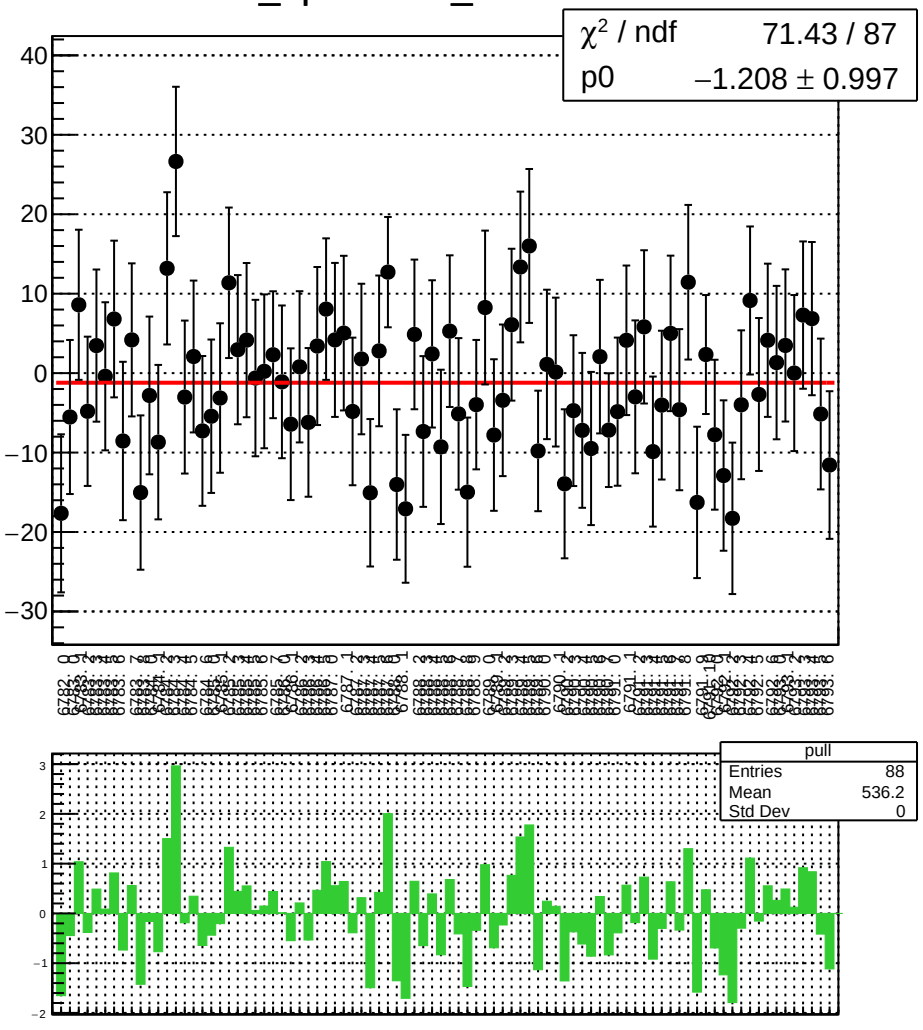

pull1D
Entries 88
Mean −0.0002935
Std Dev 0.839

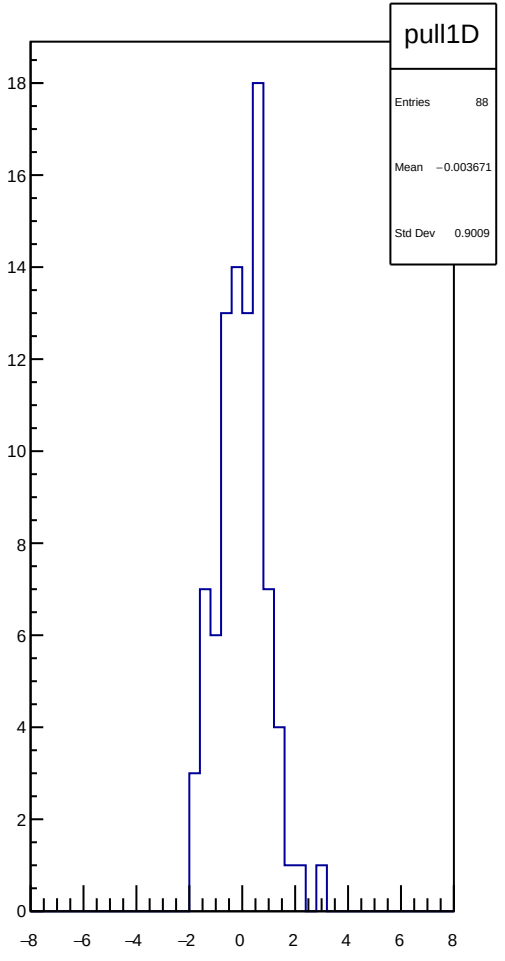

diff_bpm0r05Y_rms vs run
χ² / ndf 3352 / 87
p0 3552 ± 2.764
4000
3900
3800
3700
3600
3500
3400
3300
3200

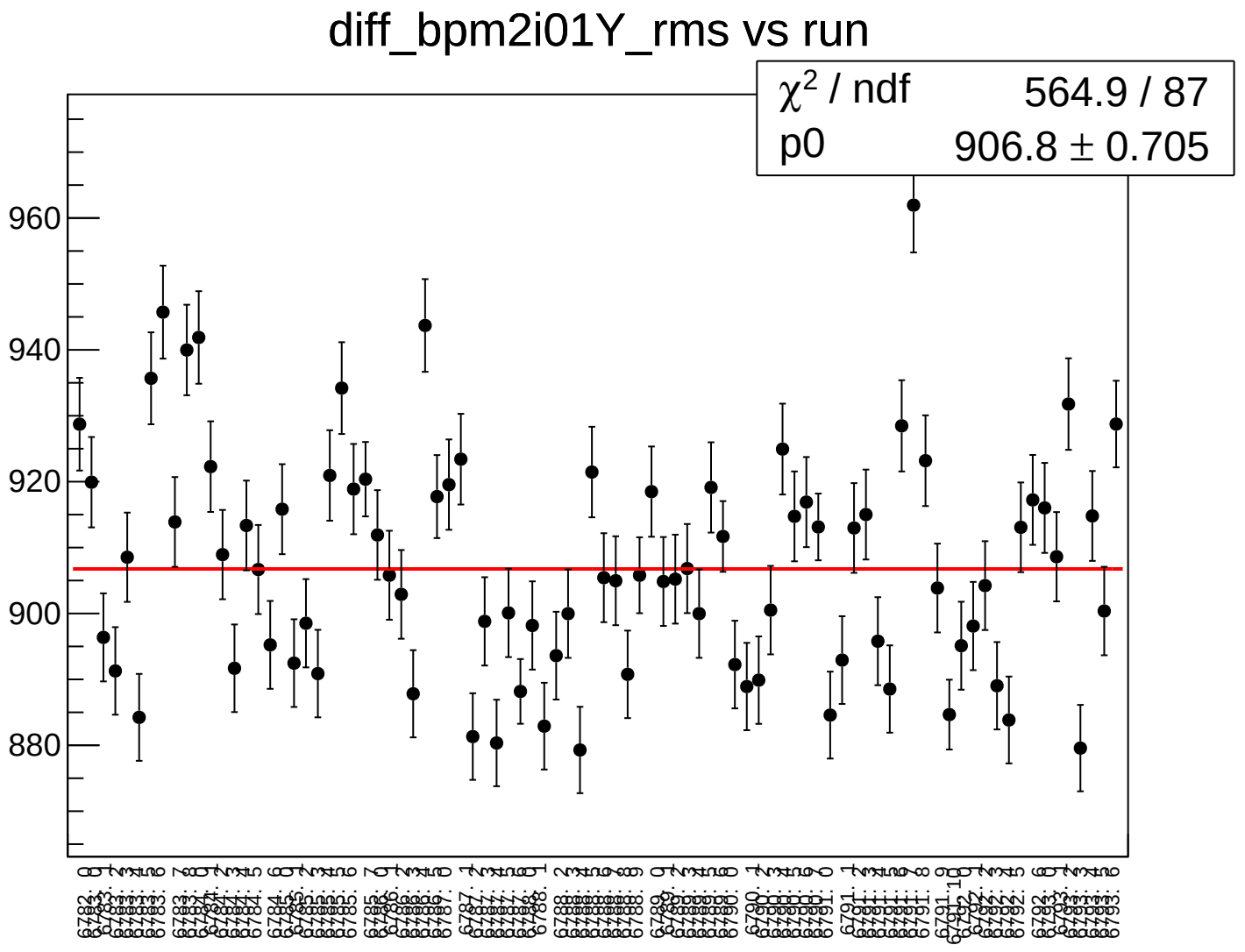

diff_bpm2i01X_mean vs run
χ² / ndf 96.23 / 87
p0 −0.2004 ± 0.9122
pull
Entries 88
Mean 9644
Std Dev 0

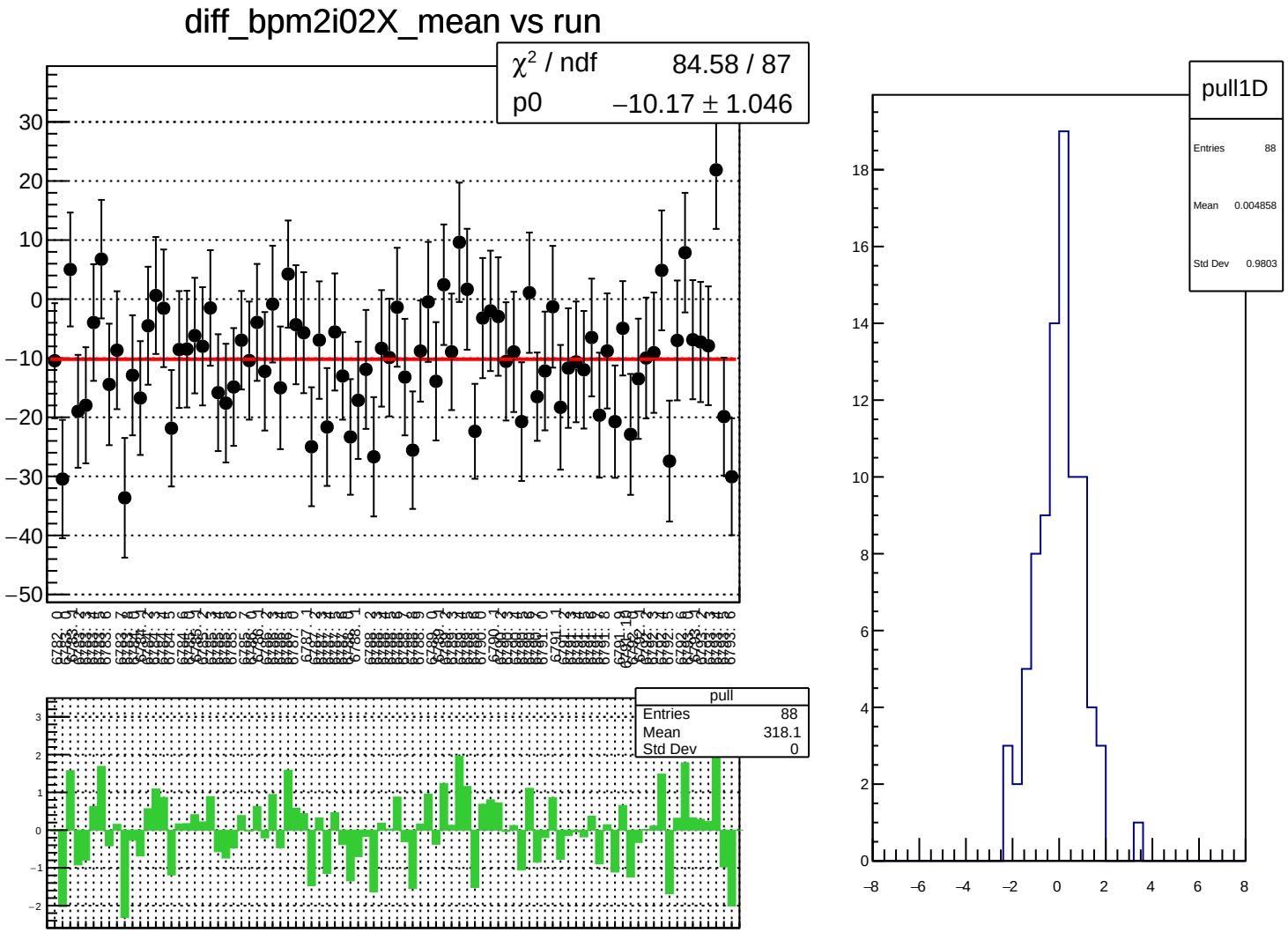

pull1D
Entries 88
Mean 0.0001594
Std Dev 1.046

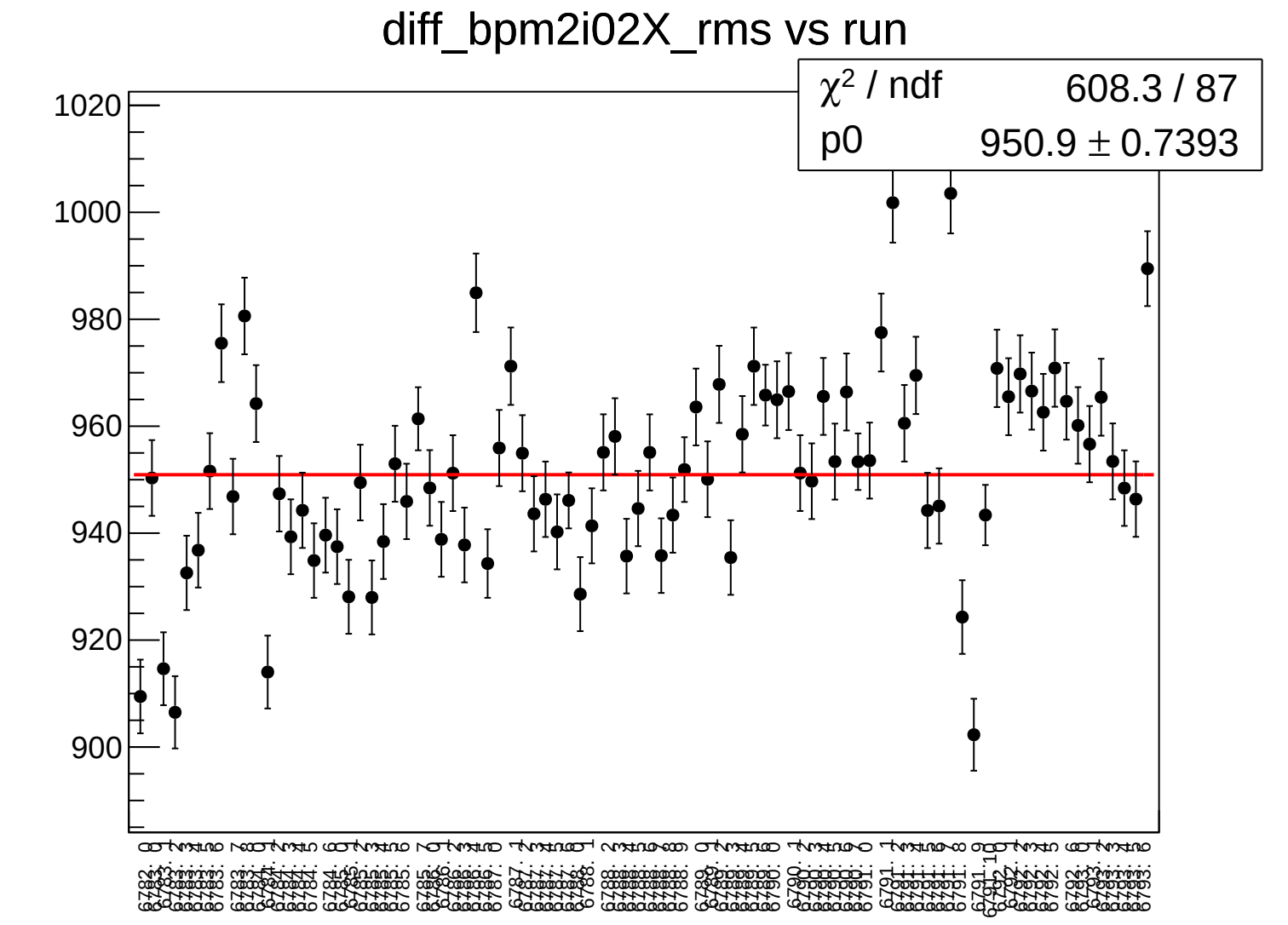

diff_bpm2i01X_rms vs run
χ^2 / ndf 402.8 / 87
p0 829.7 ± 0.645
880
870
860
850
840
830
820
810
800

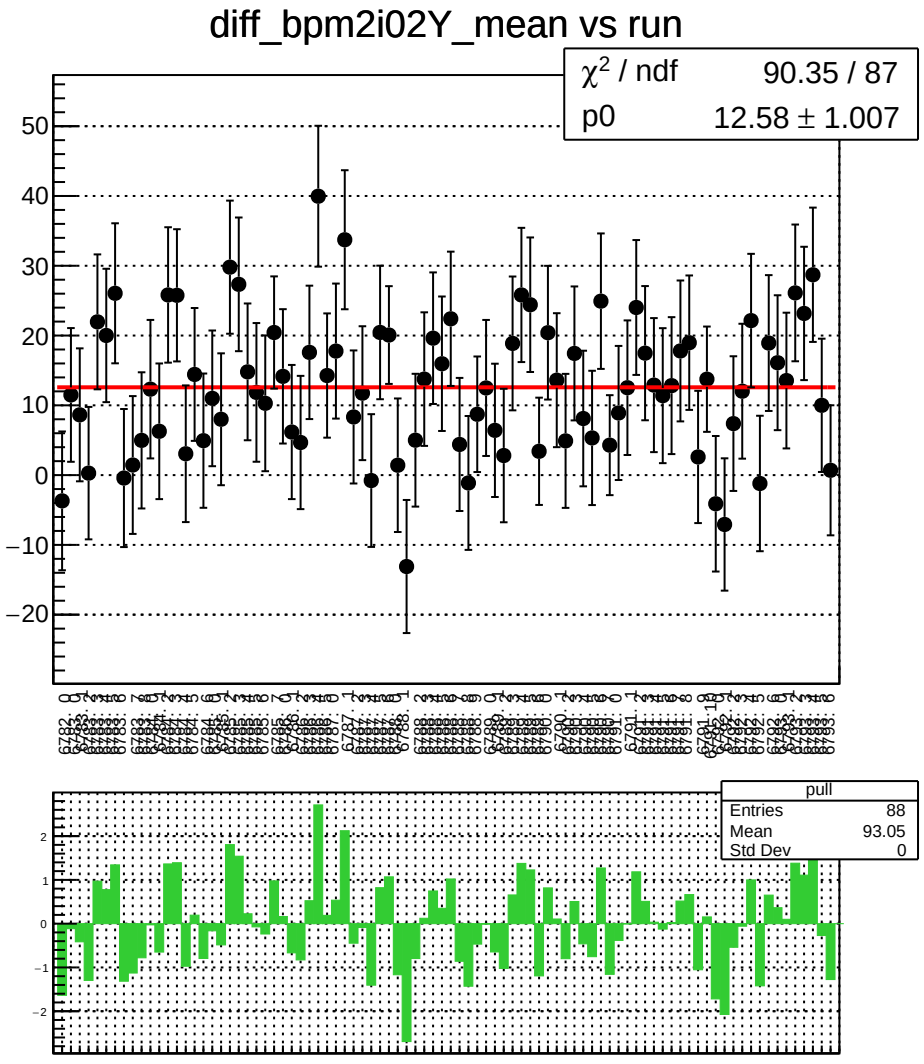

diff_bpm2i01Y_mean vs run
χ² / ndf 71.43 / 87
p0 −1.208 ± 0.997
pull
Entries 88
Mean 536.2
Std Dev 0

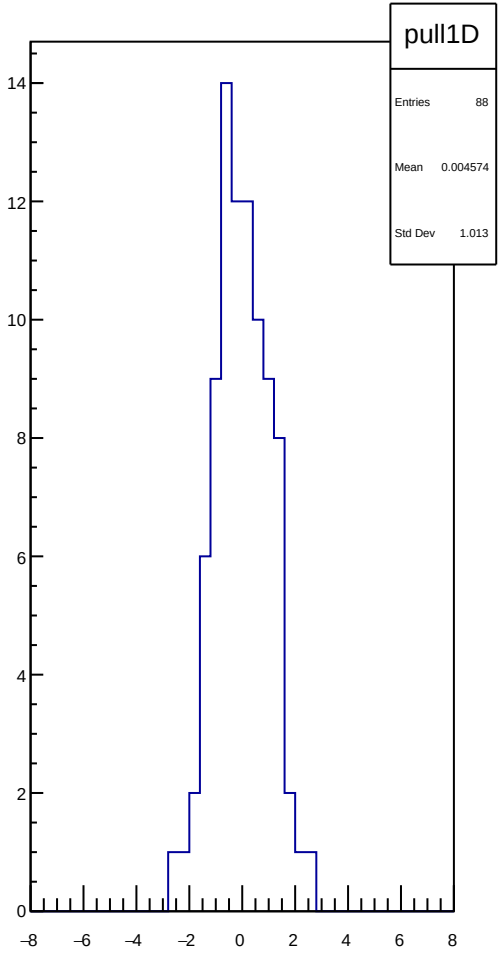

pull1D
Entries 88
Mean −0.003671
Std Dev 0.9009

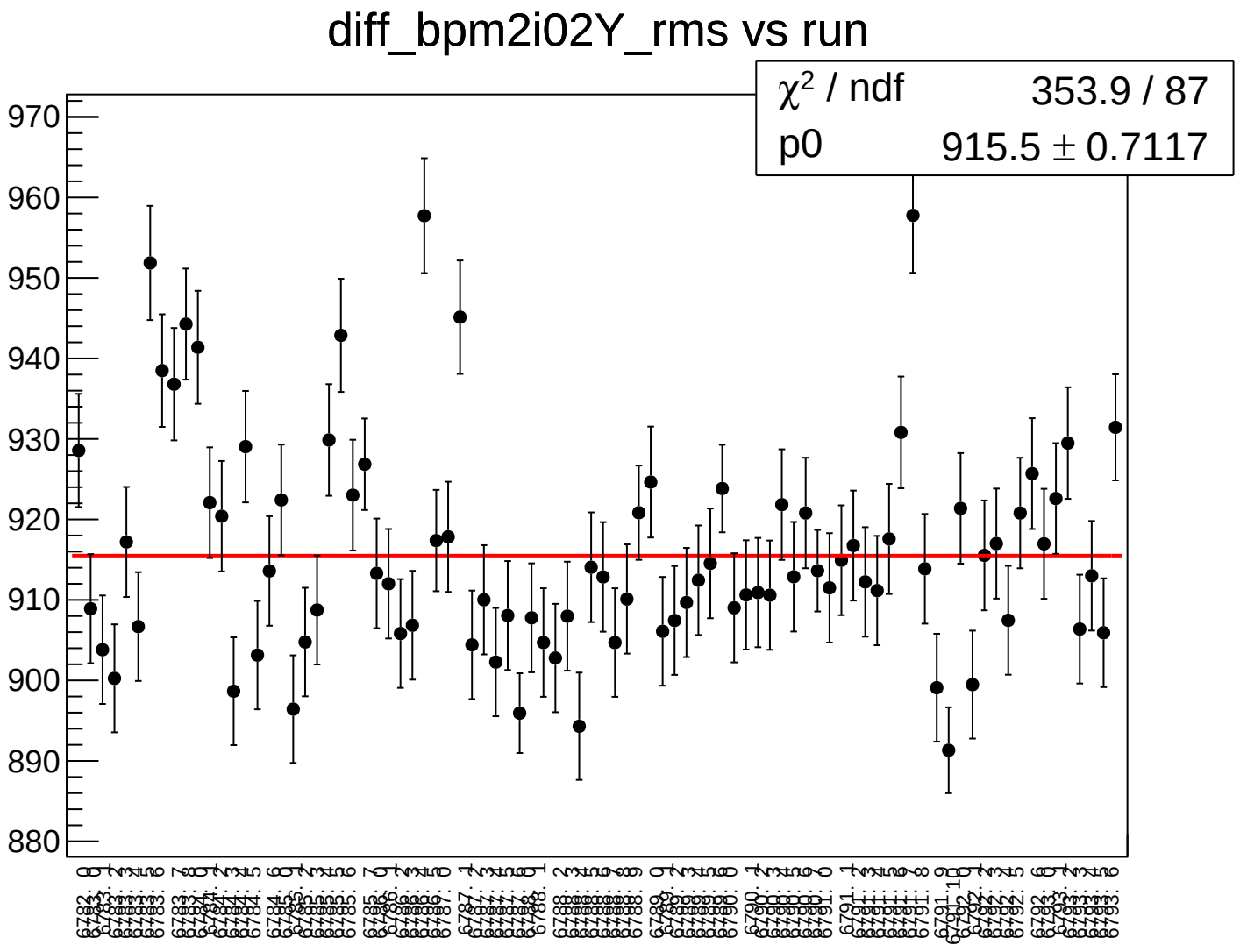

diff_bpm2i01Y_rms vs run
χ² / ndf 564.9 / 87
p0 906.8 ± 0.705
960
940
920
900
880

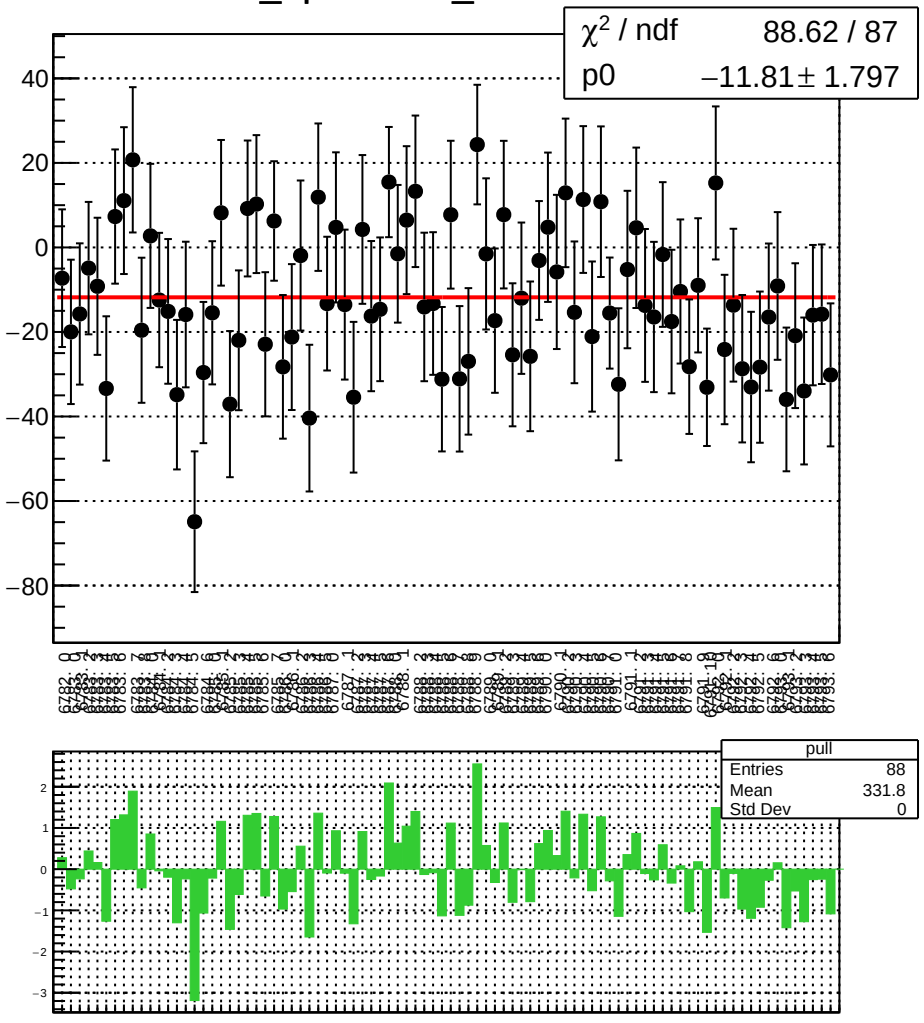

diff_bpm2i02X_mean vs run
χ² / ndf 84.58 / 87
p0 −10.17 ± 1.046
pull
Entries 88
Mean 318.1
Std Dev 0
pull1D
Entries 88
Mean 0.004858
Std Dev 0.9803

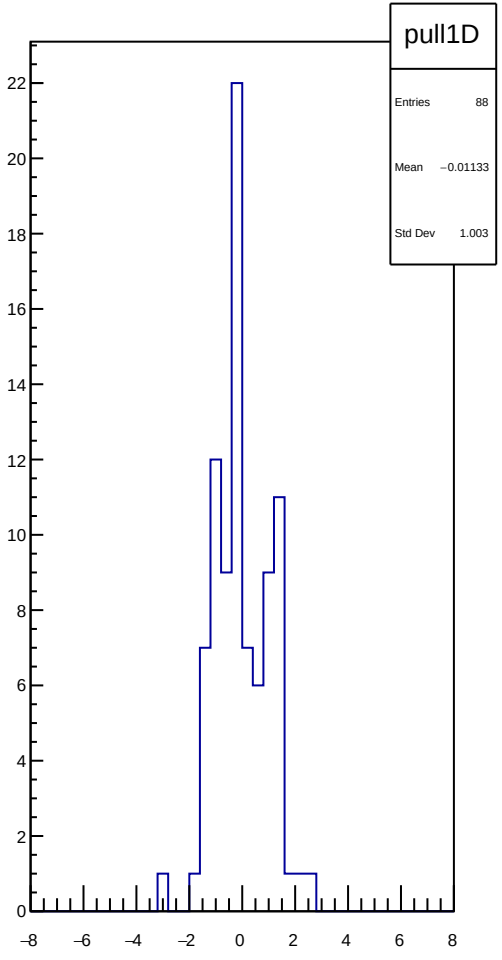

diff_bpm2i02X_rms vs run
χ² / ndf 608.3 / 87
p0 950.9 ± 0.7393
1020
1000
980
960
940
920
900

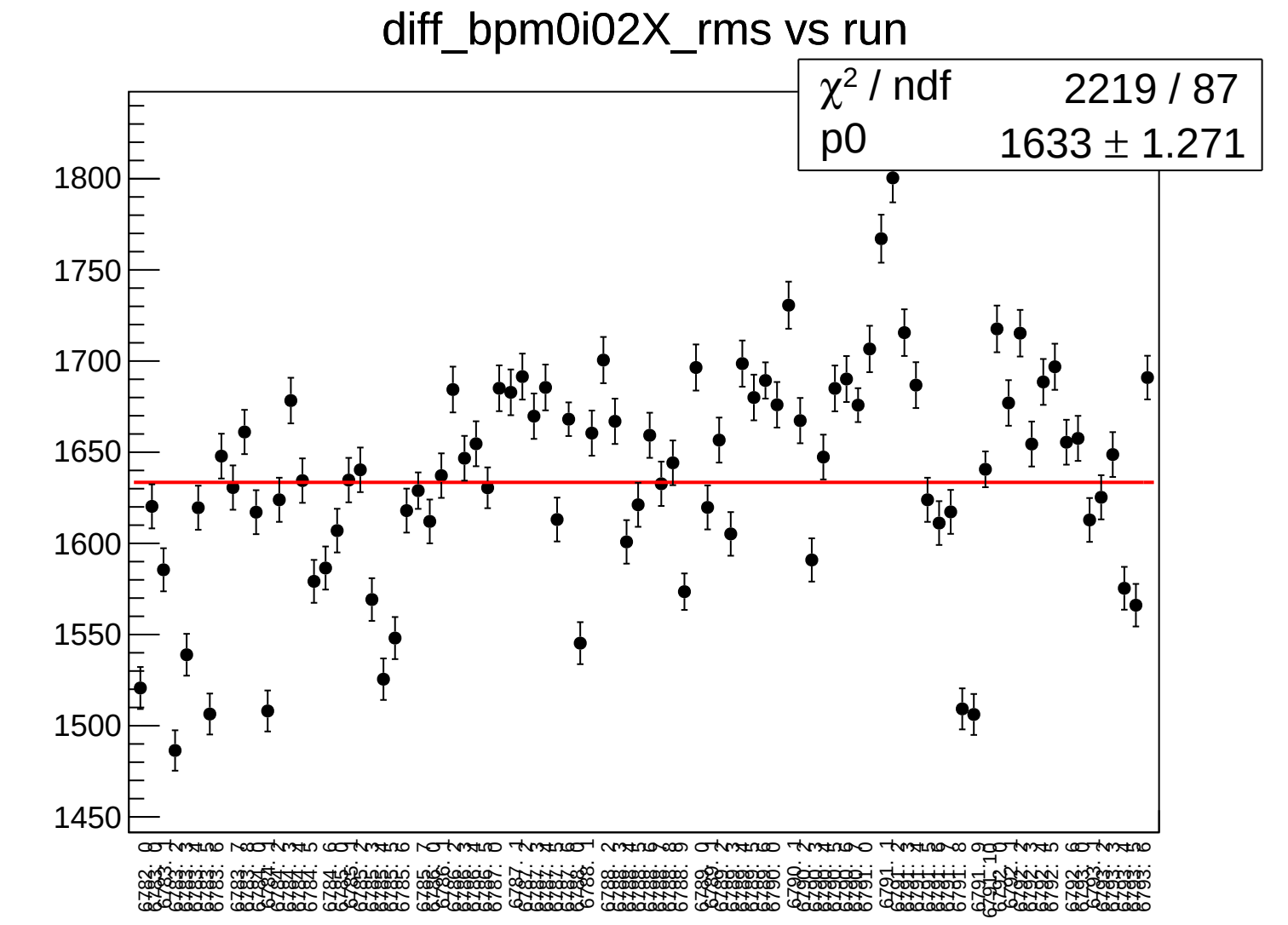

diff_bpm2i02Y_mean vs run
χ^2 / ndf 90.35 / 87
p0 12.58 ± 1.007
pull
Entries 88
Mean 93.05
Std Dev 0

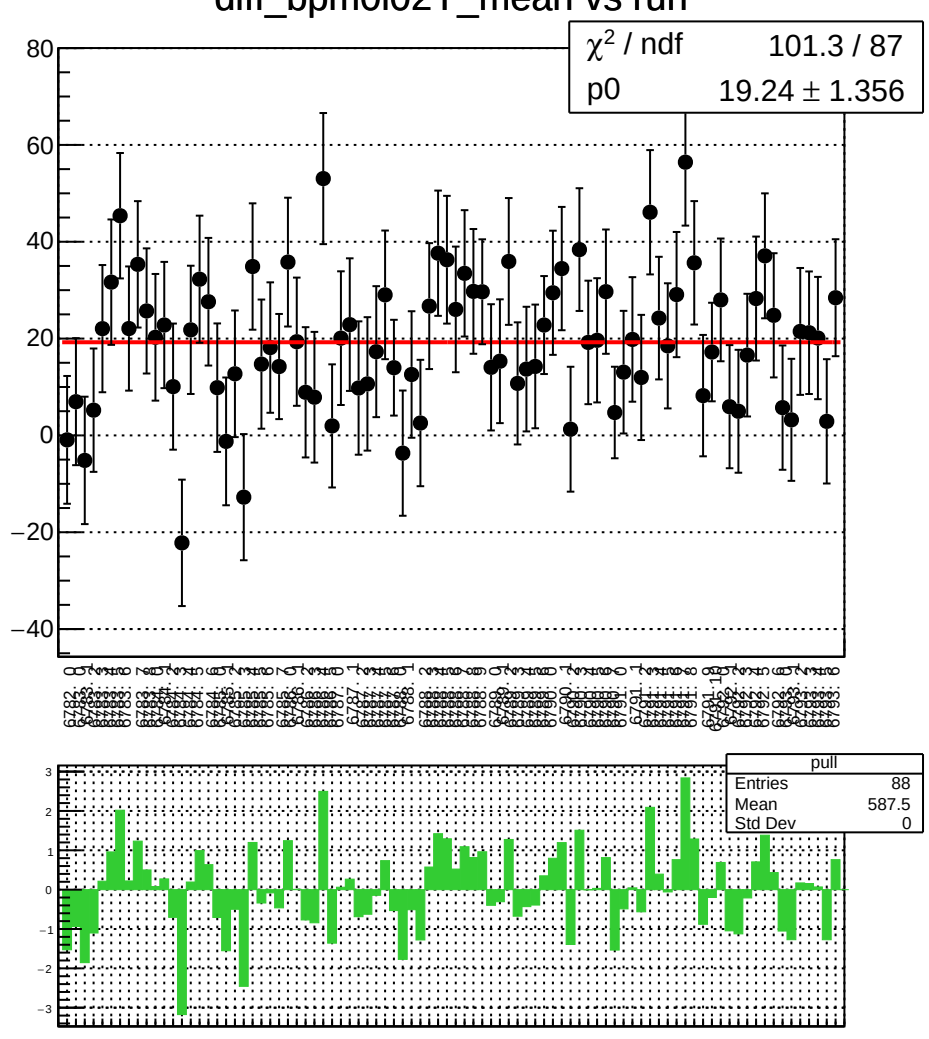

pull1D
Entries 88
Mean 0.004574
Std Dev 1.013

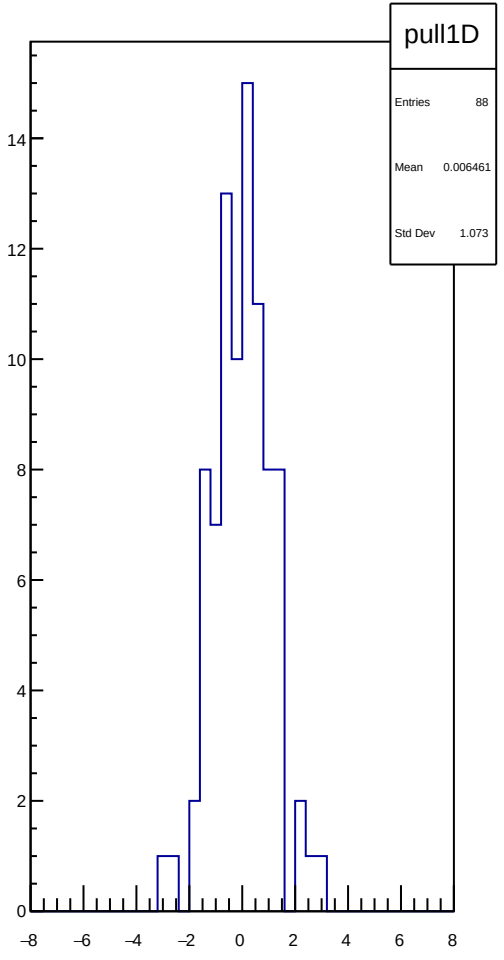

diff_bpm2i02Y_rms vs run
χ² / ndf 353.9 / 87
p0 915.5 ± 0.7117
970
960
950
940
930
920
910
900
890
880

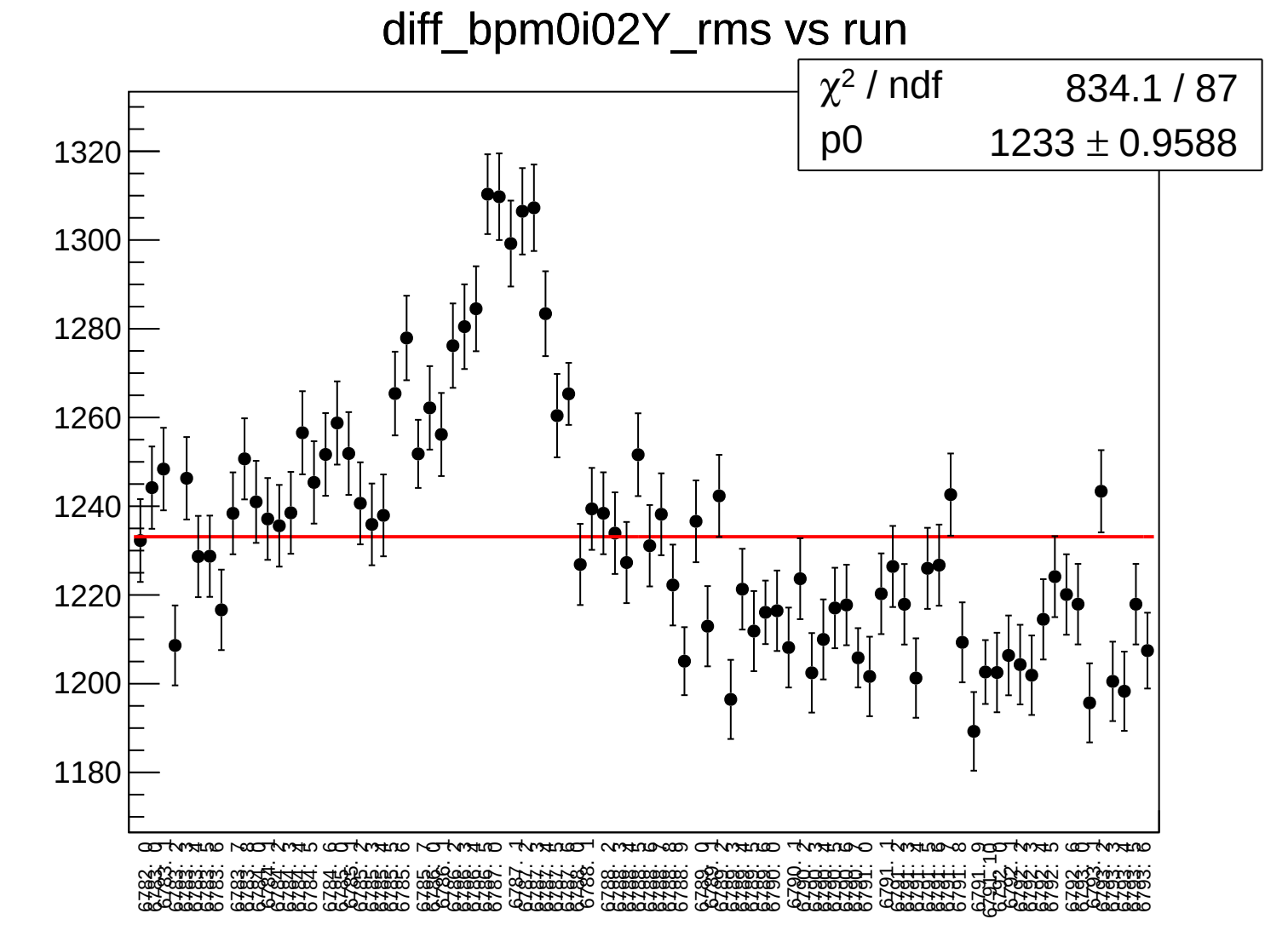

diff_bpm0i02X_mean vs run
χ^2 / ndf 88.62 / 87
p0 −11.81± 1.797
pull
Entries 88
Mean 331.8
Std Dev 0

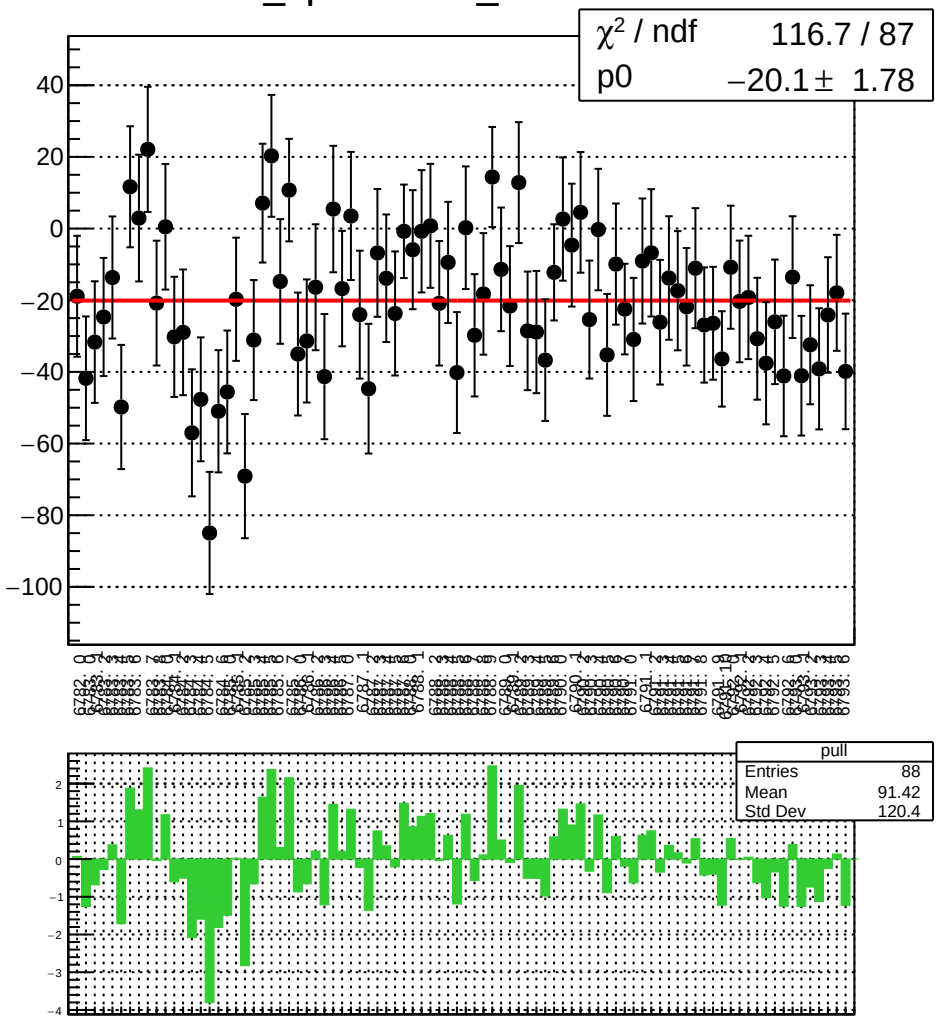

pull1D
Entries 88
Mean −0.01133
Std Dev 1.003

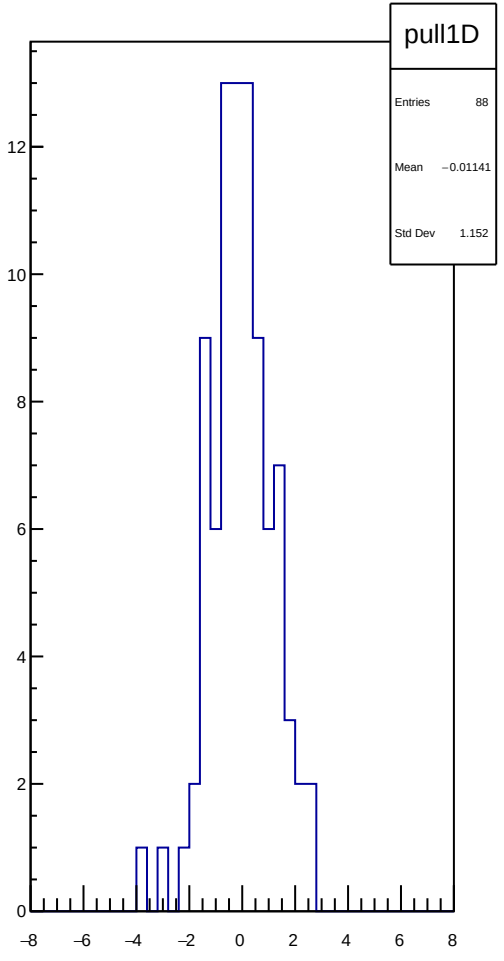

diff_bpm0i02X_rms vs run
χ² / ndf 2219 / 87
p0 1633 ± 1.271
1800
1750
1700
1650
1600
1550
1500
1450

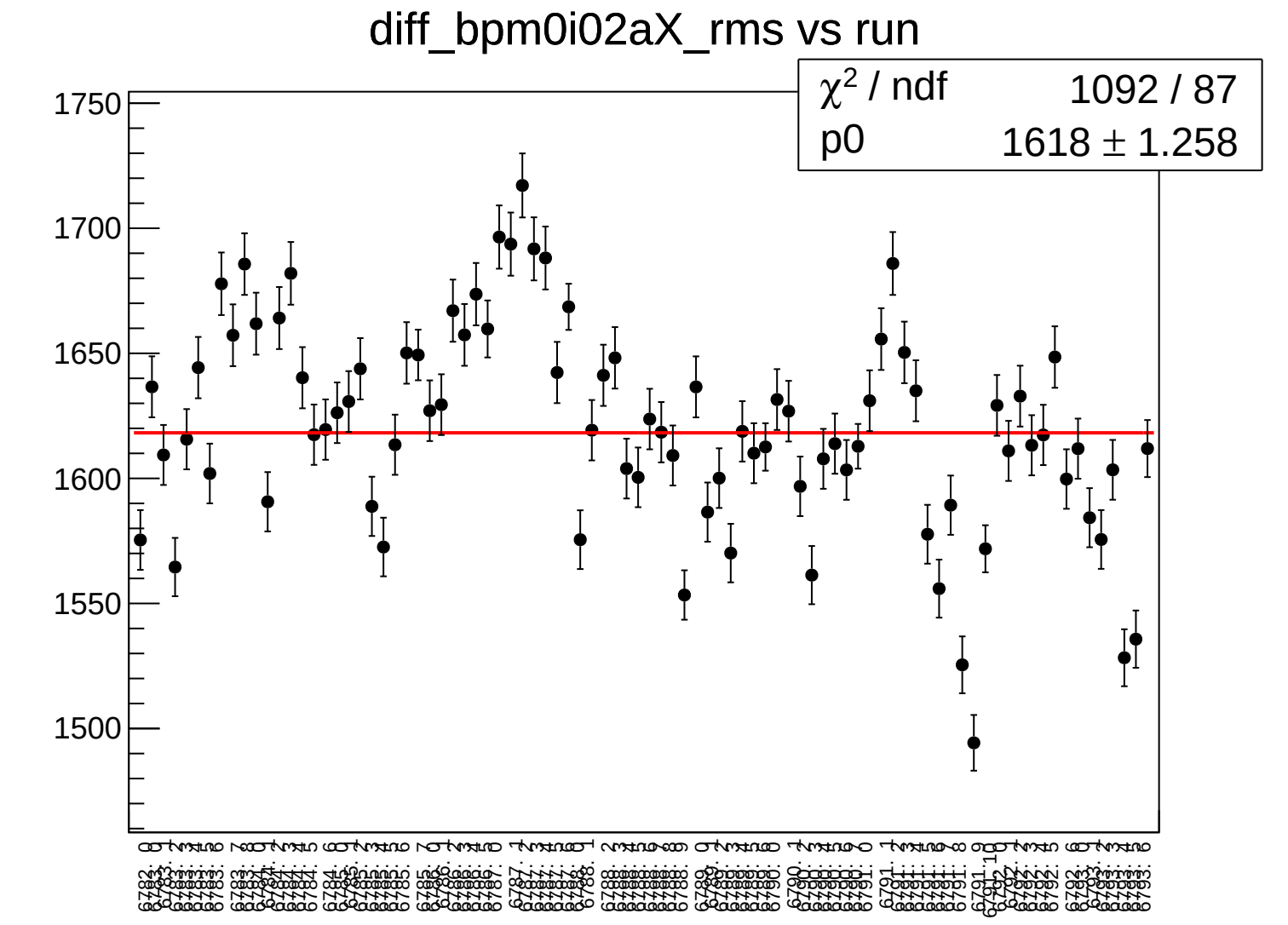

diff_bpm0i02Y_mean vs run
χ² / ndf 101.3 / 87
p0 19.24 ± 1.356
pull
Entries 88
Mean 587.5
Std Dev 0

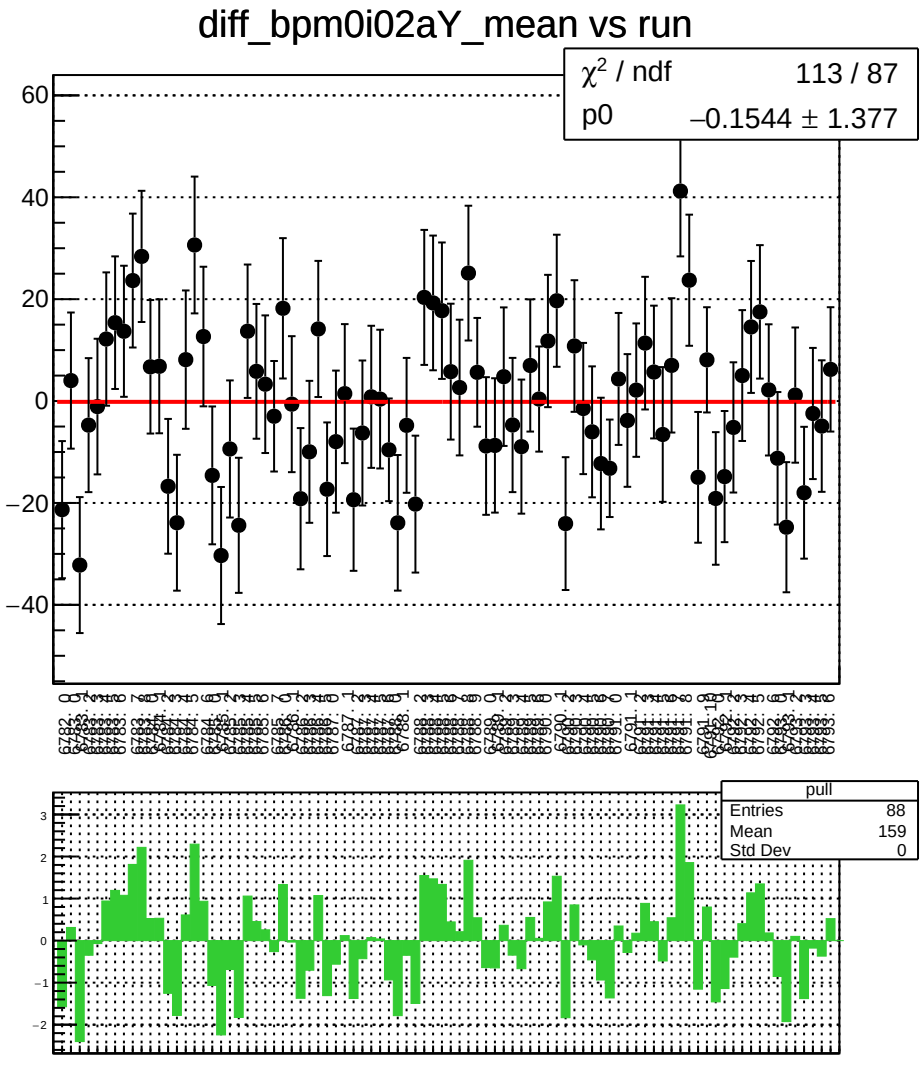

pull1D
Entries 88
Mean 0.006461
Std Dev 1.073

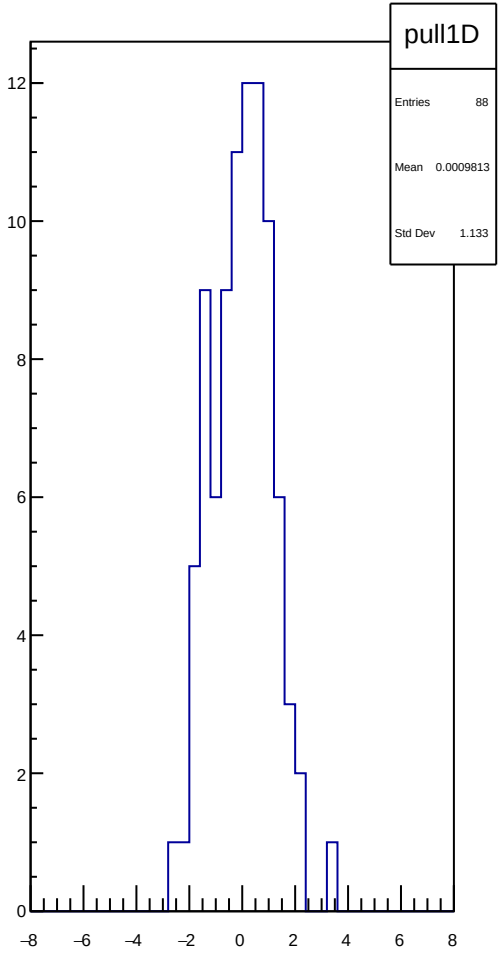

diff_bpm0i02Y_rms vs run
χ² / ndf 834.1 / 87
p0 1233 ± 0.9588
1320
1300
1280
1260
1240
1220
1200
1180

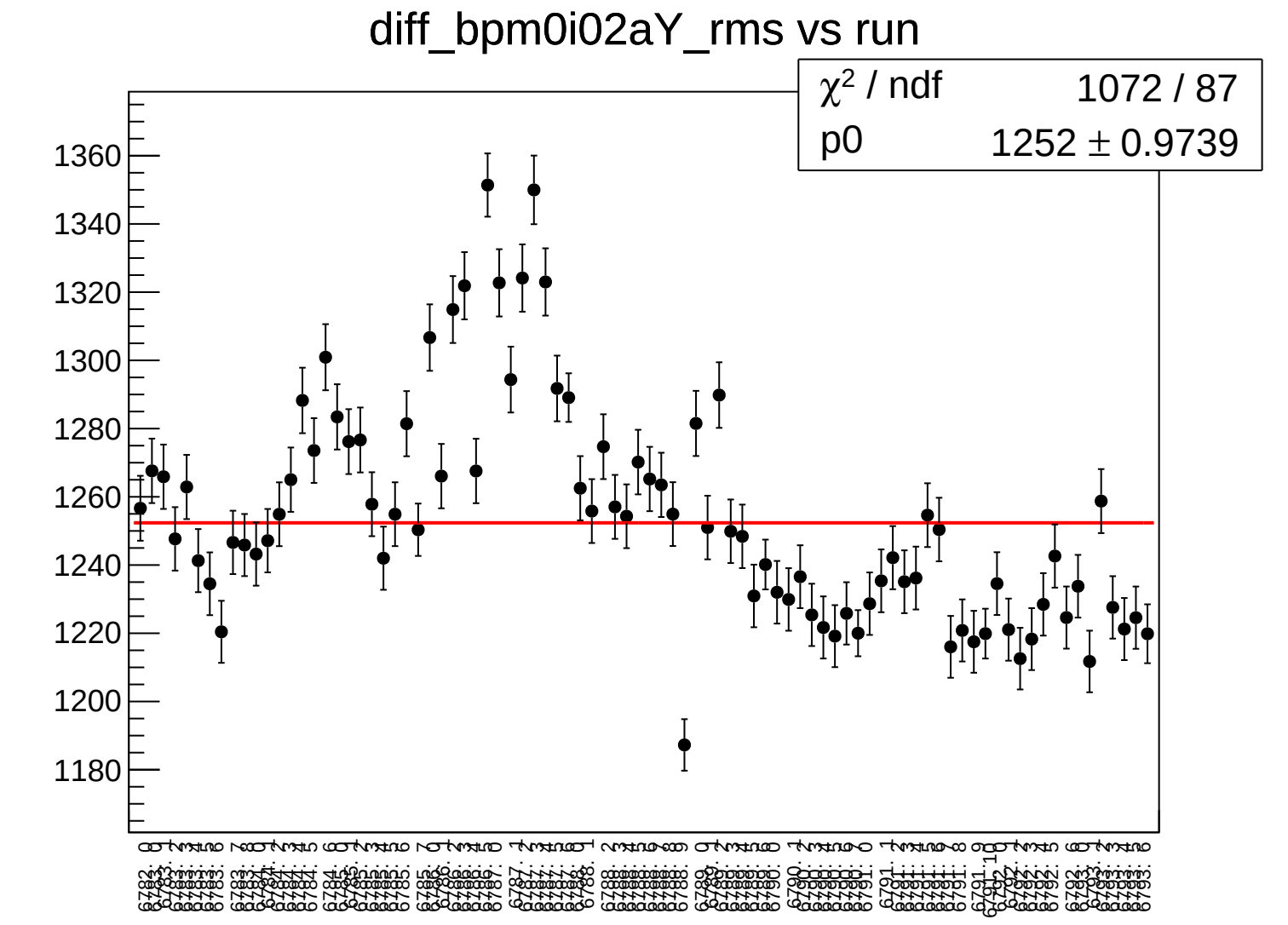

diff_bpm0i02aX_mean vs run
χ² / ndf 116.7 / 87
p0 −20.1 ± 1.78
pull
Entries 88
Mean 91.42
Std Dev 120.4

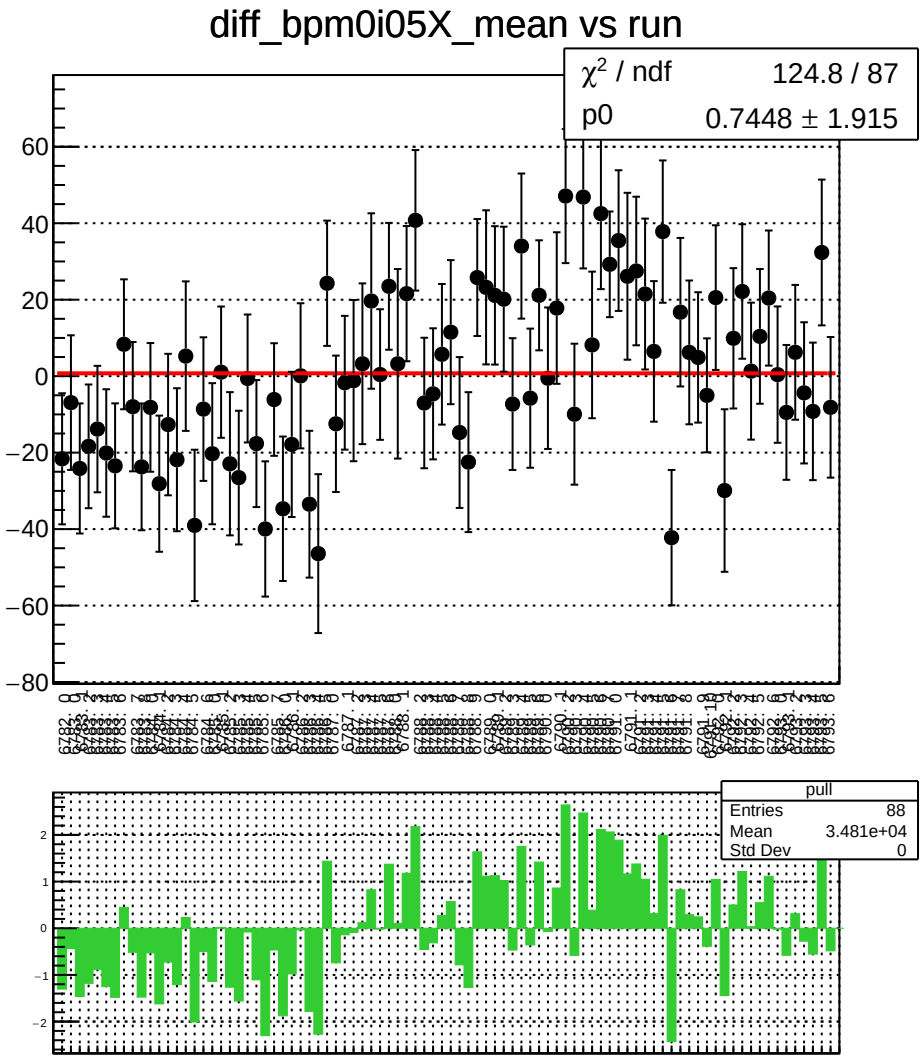

pull1D
Entries 88
Mean −0.01141
Std Dev 1.152

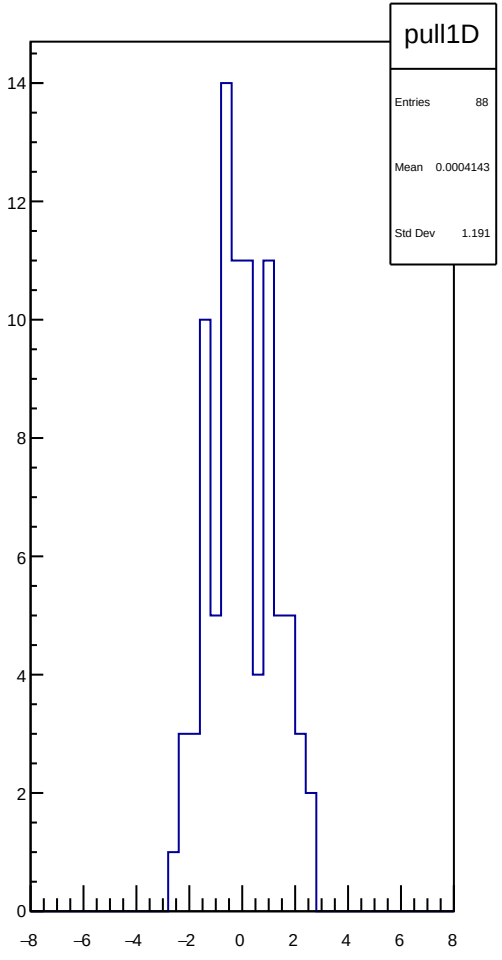

diff_bpm0i02aX_rms vs run
χ² / ndf 1092 / 87
p0 1618 ± 1.258
1750
1700
1650
1600
1550
1500

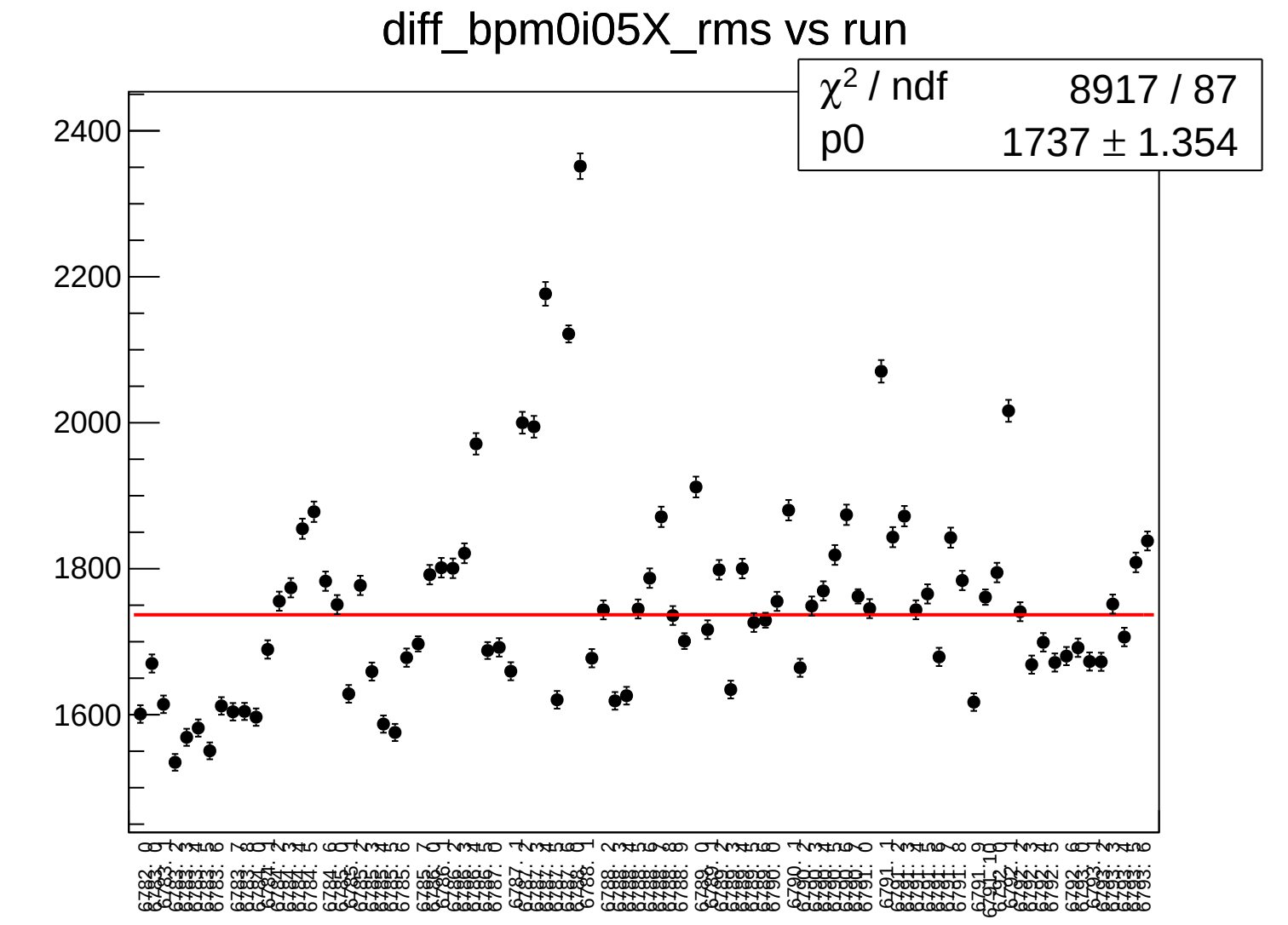

diff_bpm0i02aY_mean vs run
χ² / ndf 113 / 87
p0 −0.1544 ± 1.377
pull
Entries 88
Mean 159
Std Dev 0

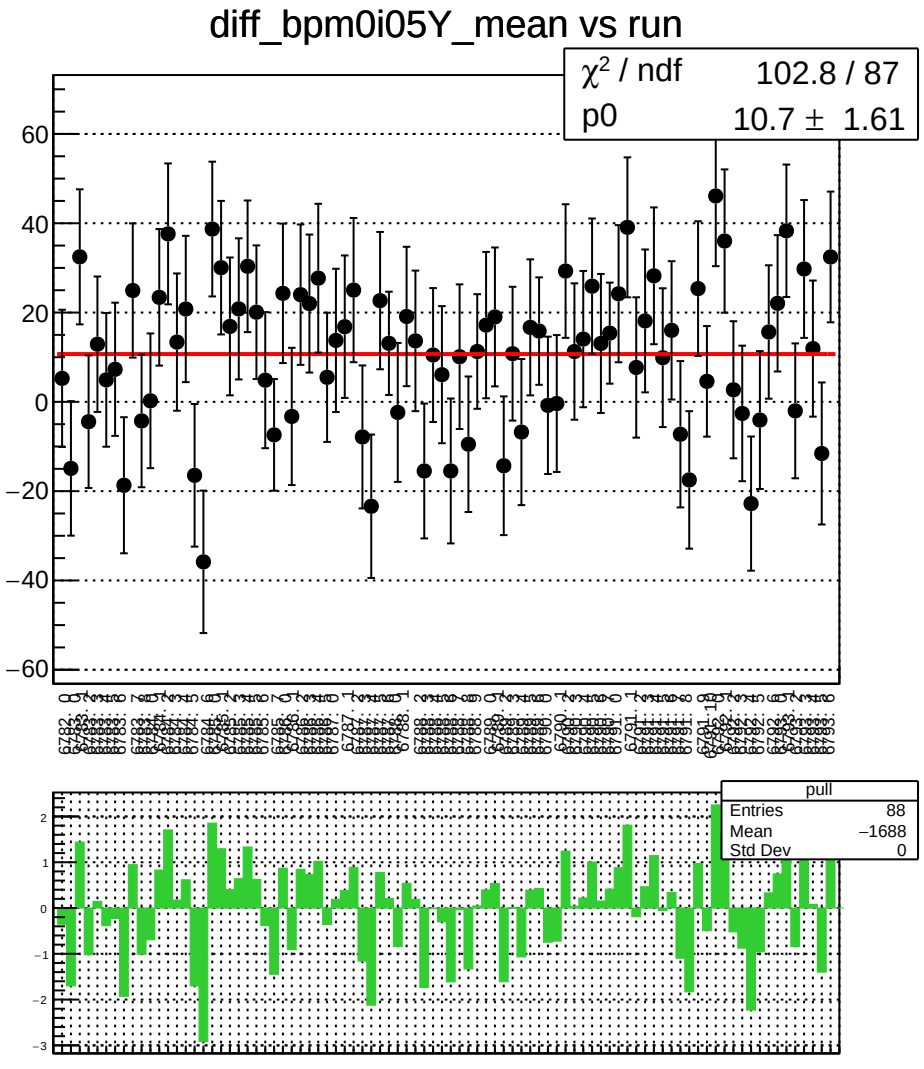

pull1D
Entries 88
Mean 0.0009813
Std Dev 1.133

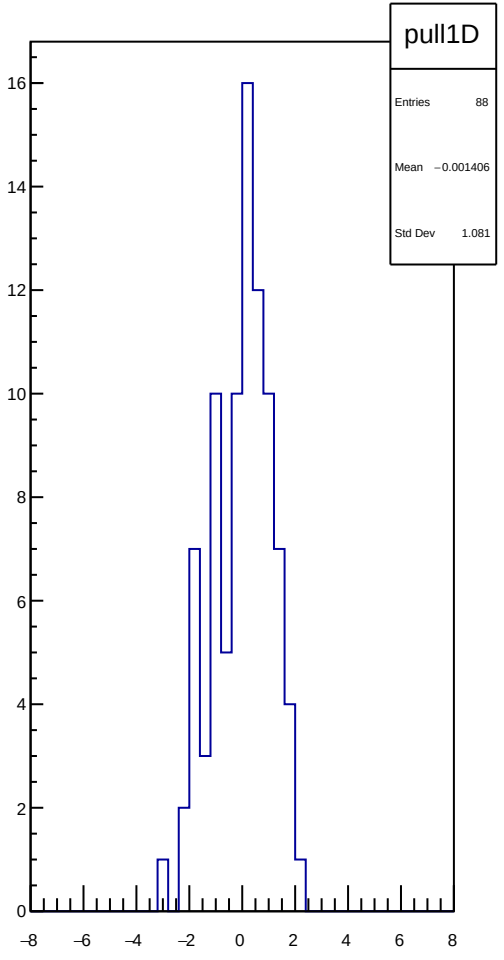

diff_bpm0i02aY_rms vs run
χ² / ndf 1072 / 87
p0 1252 ± 0.9739
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

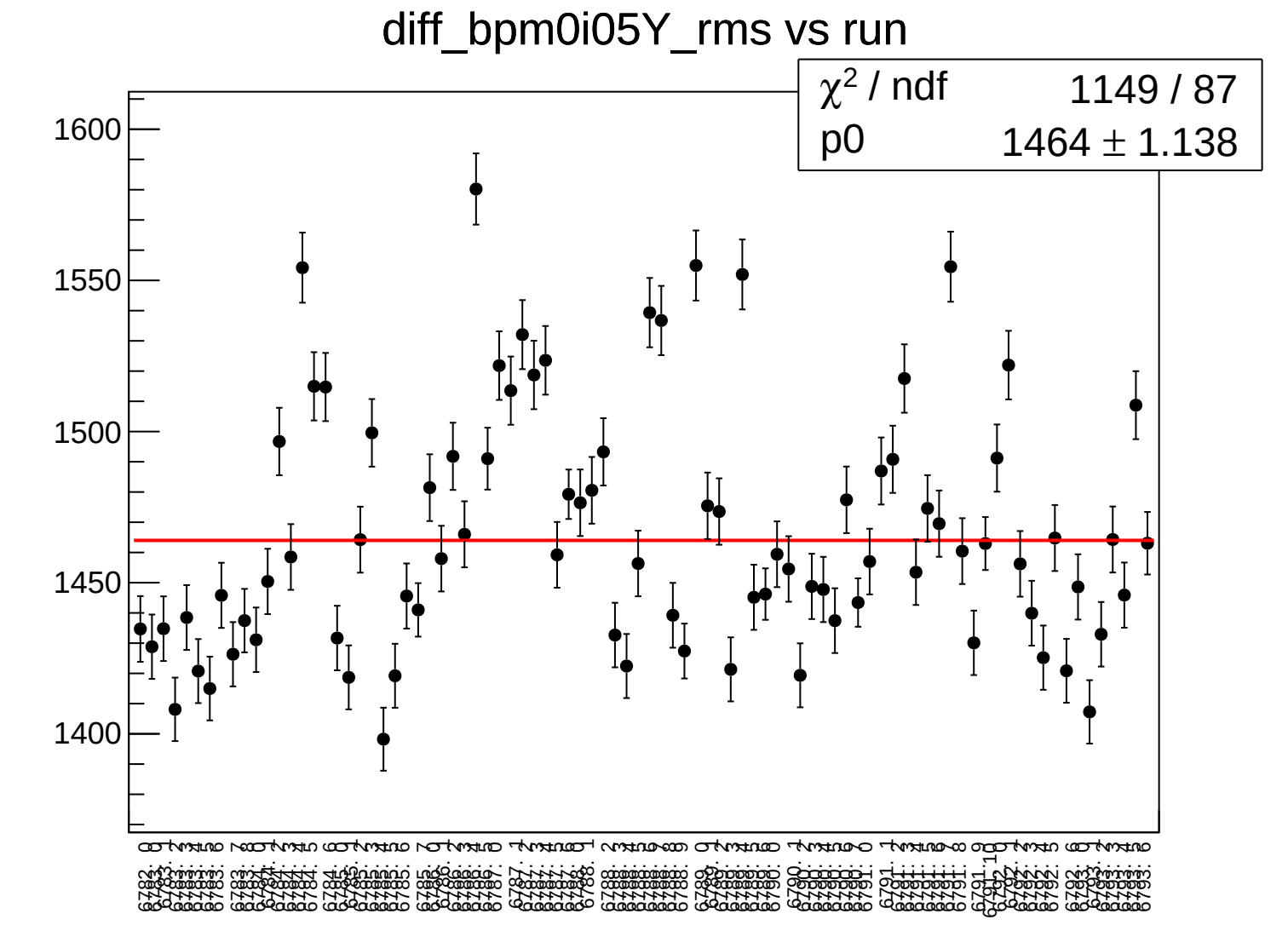

diff_bpm0i05X_mean vs run
χ² / ndf 124.8 / 87
p0 0.7448 ± 1.915
pull
Entries 88
Mean 3.481e+04
Std Dev 0

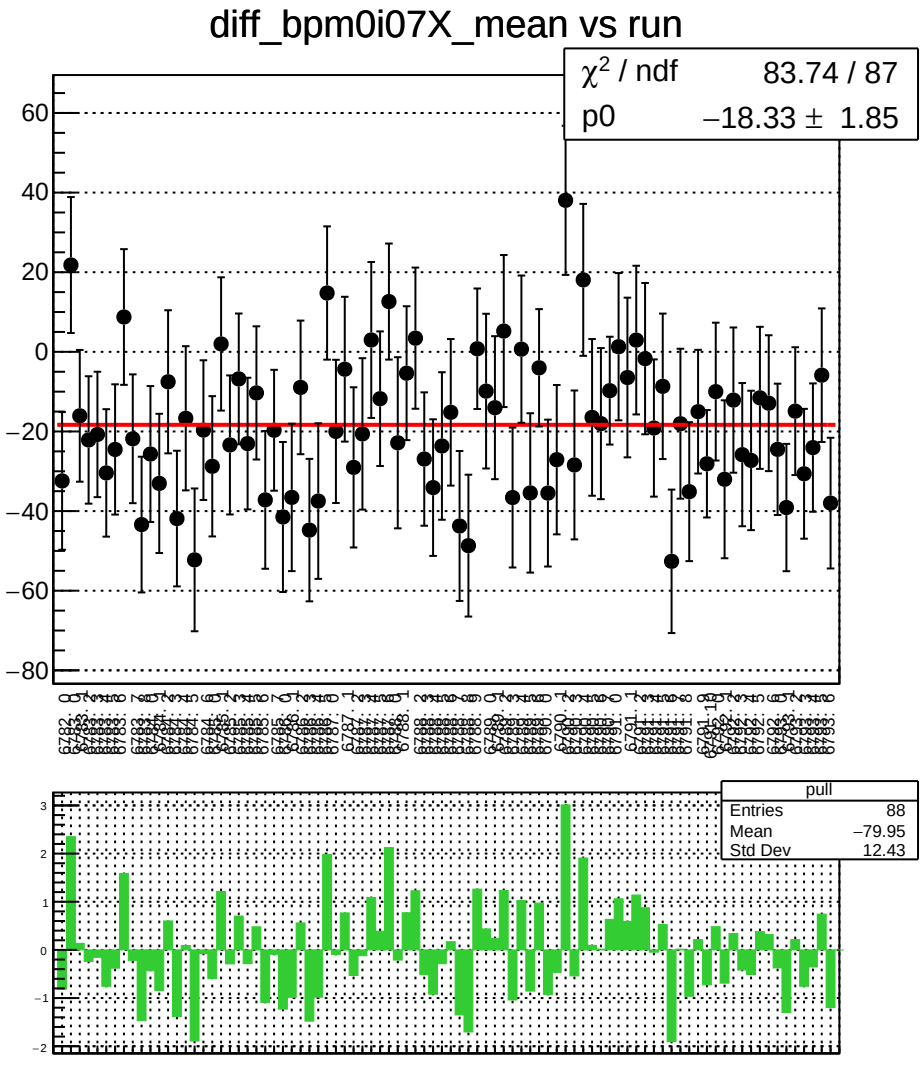

pull1D
Entries 88
Mean 0.0004143
Std Dev 1.191

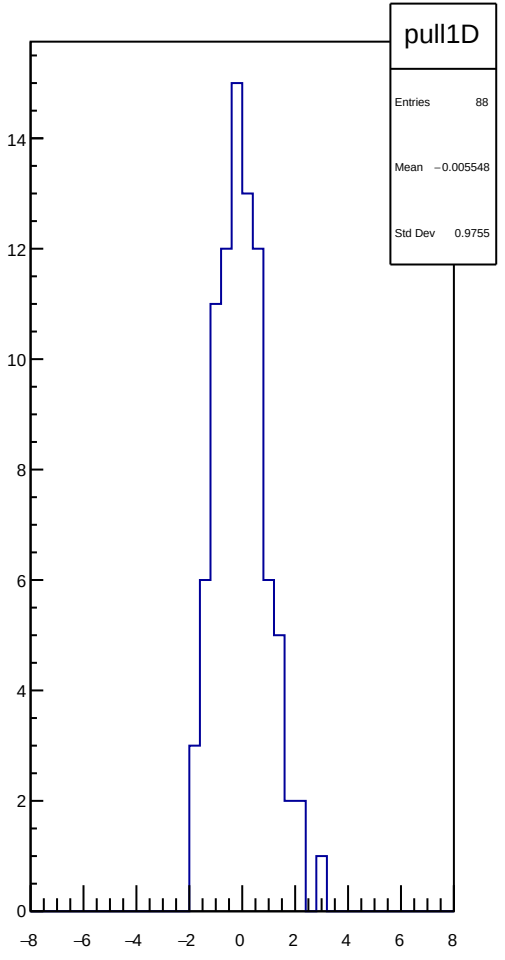

diff_bpm0i05X_rms vs run
χ² / ndf 8917 / 87
p0 1737 ± 1.354
2400
2200
2000
1800
1600

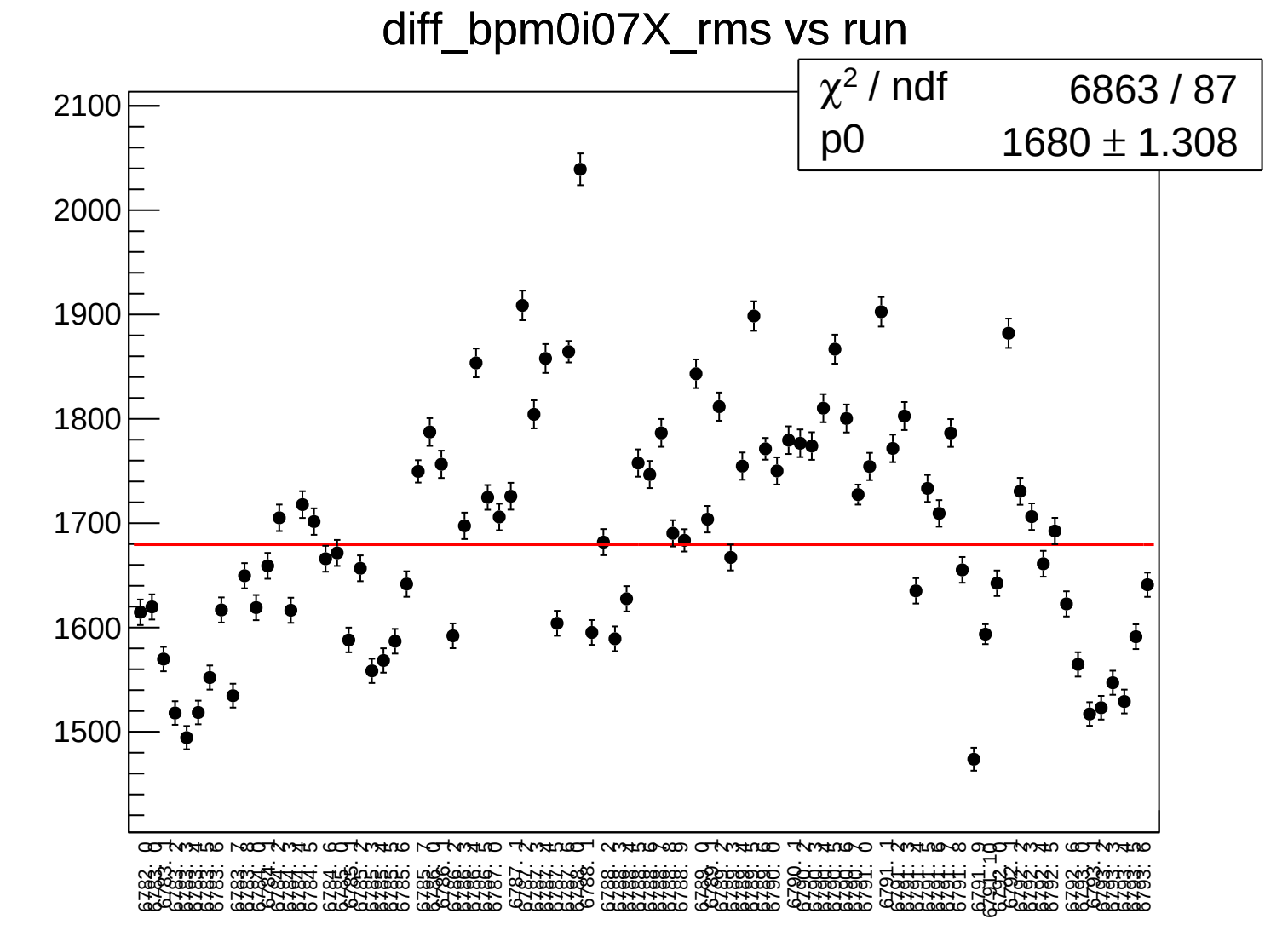

diff_bpm0i05Y_mean vs run
χ² / ndf 102.8 / 87
p0 10.7 ± 1.61
pull
Entries 88
Mean −1688
Std Dev 0

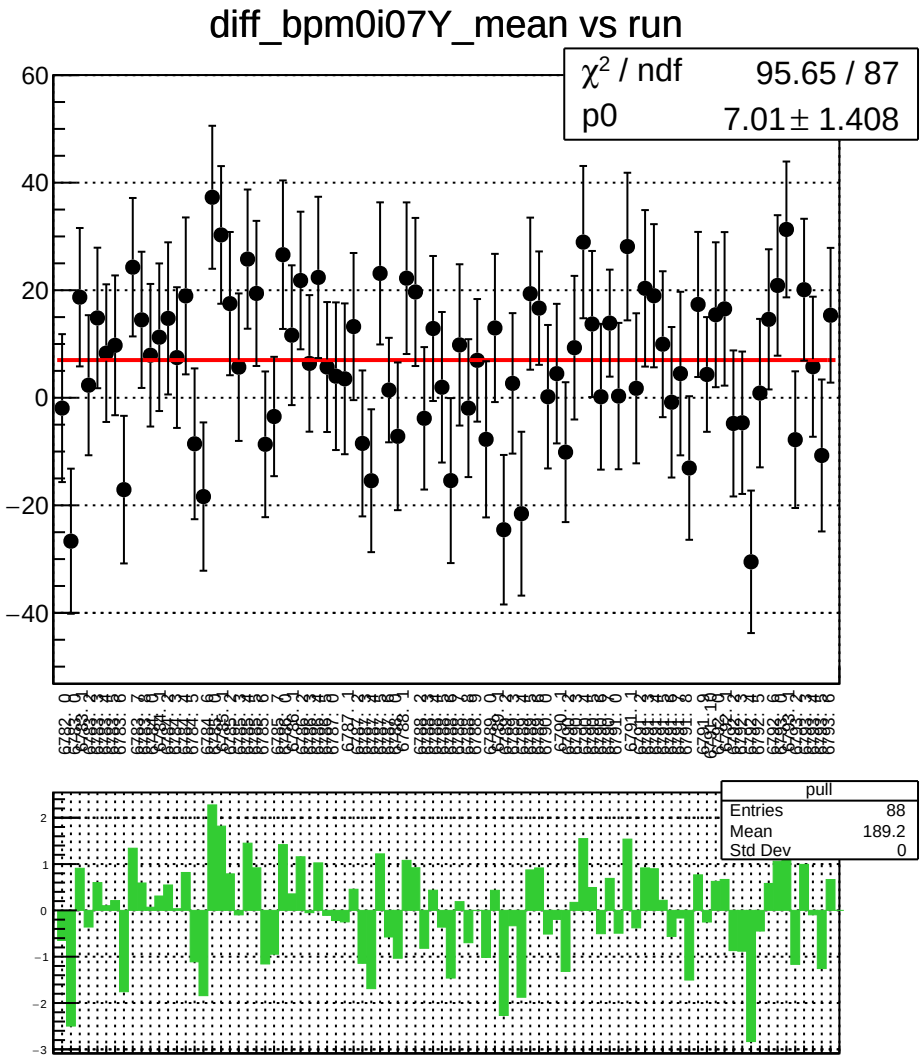

pull1D
Entries 88
Mean −0.001406
Std Dev 1.081

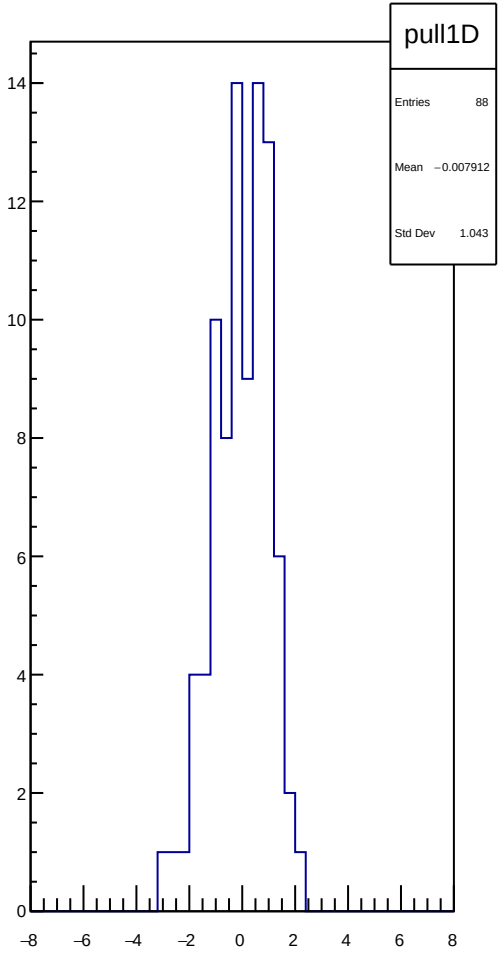

diff_bpm0i05Y_rms vs run
χ² / ndf 1149 / 87
p0 1464 ± 1.138
1600
1550
1500
1450
1400

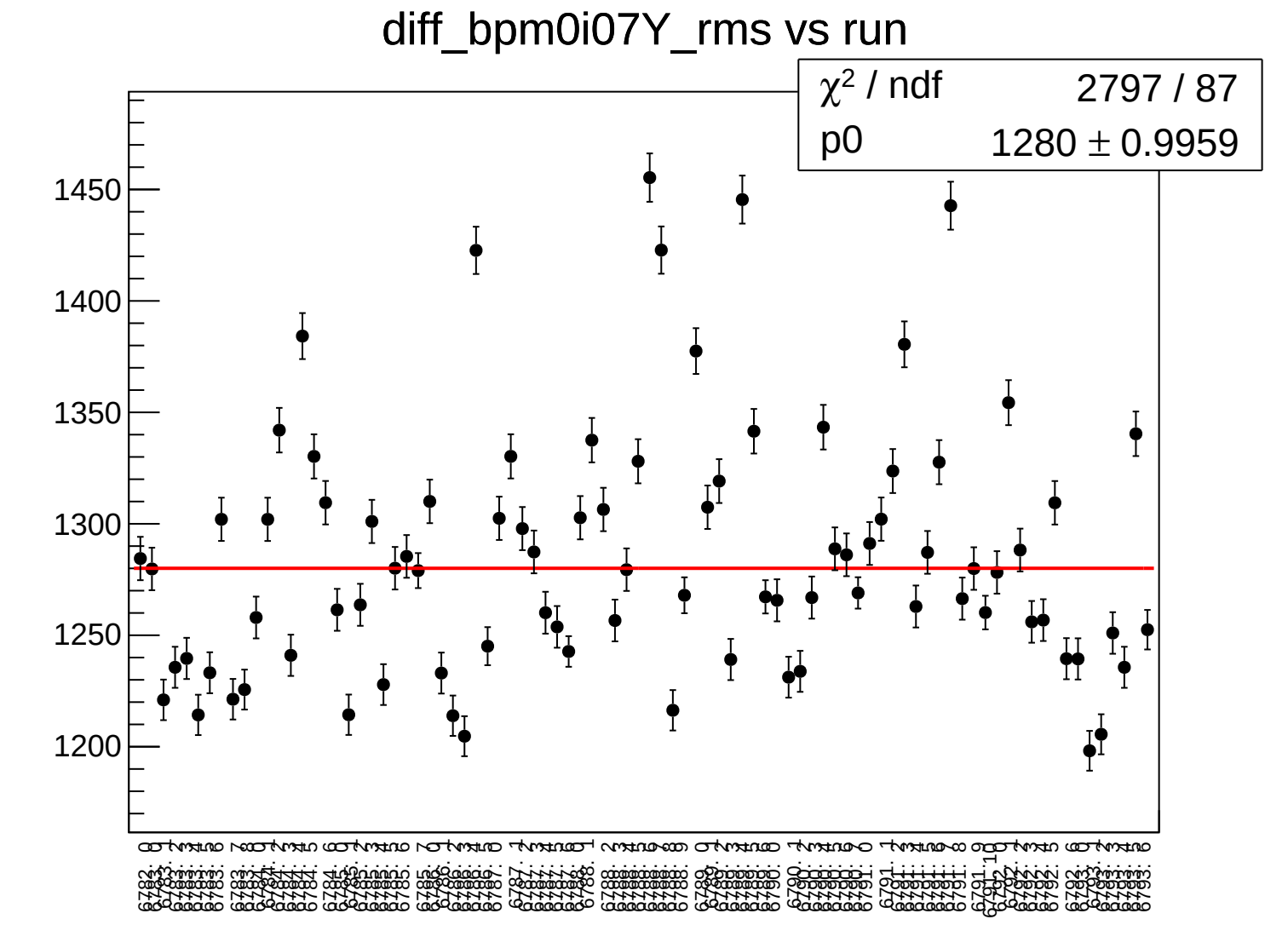

diff_bpm0i07X_mean vs run
χ² / ndf 83.74 / 87
p0 −18.33 ± 1.85
pull
Entries 88
Mean −79.95
Std Dev 12.43

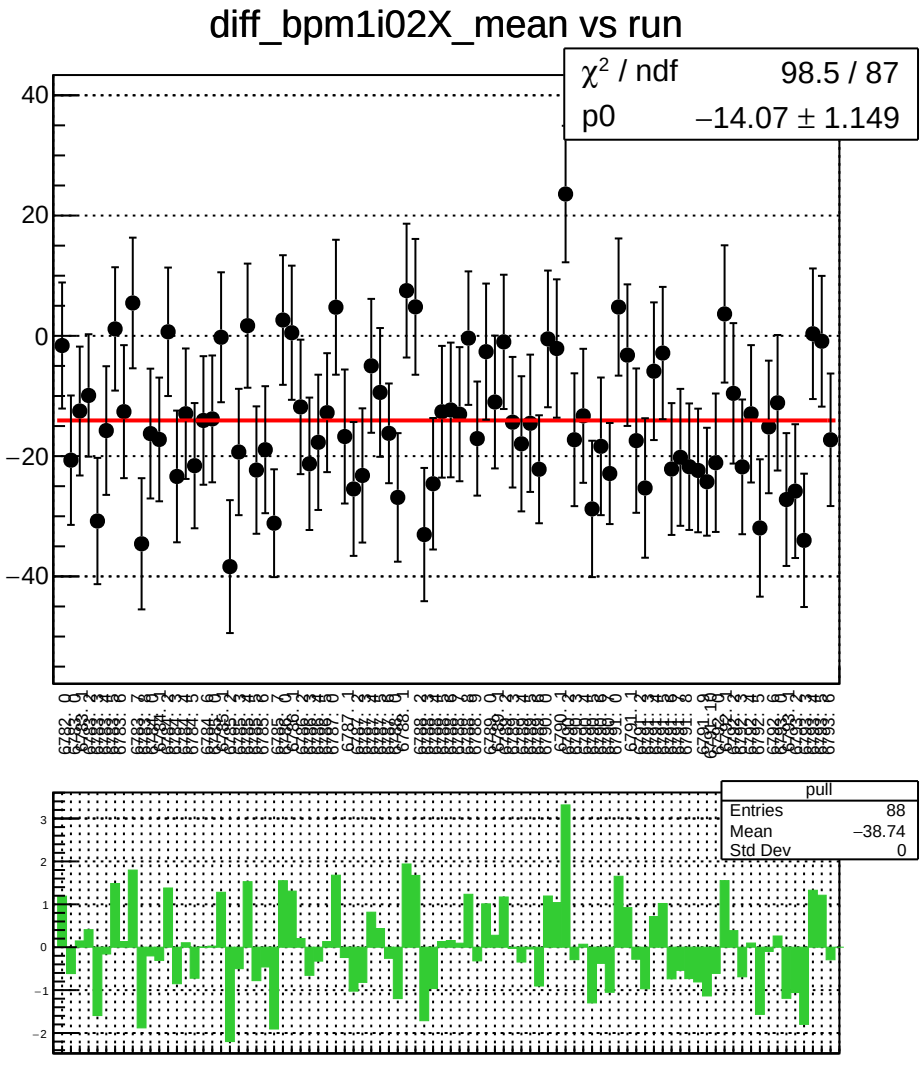

pull1D
Entries 88
Mean −0.005548
Std Dev 0.9755

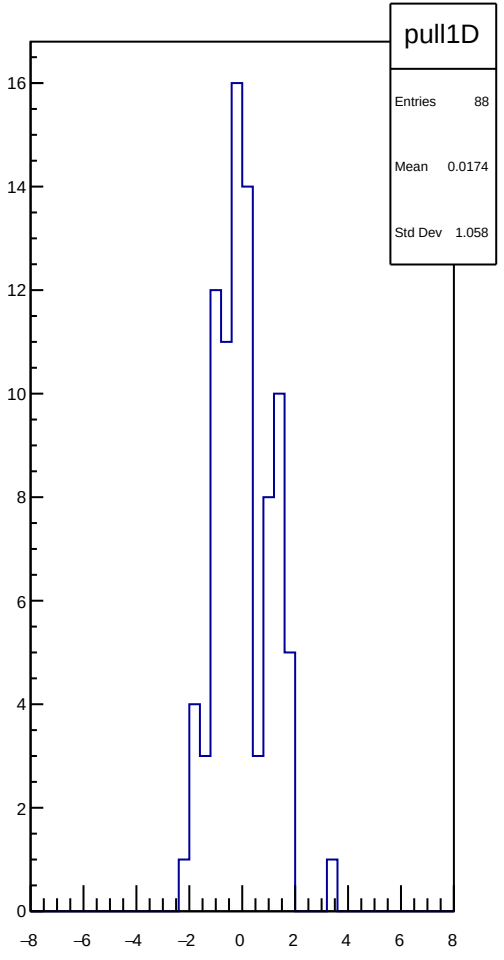

diff_bpm0i07X_rms vs run
χ^2 / ndf 6863 / 87
p0 1680 ± 1.308
2100
2000
1900
1800
1700
1600
1500

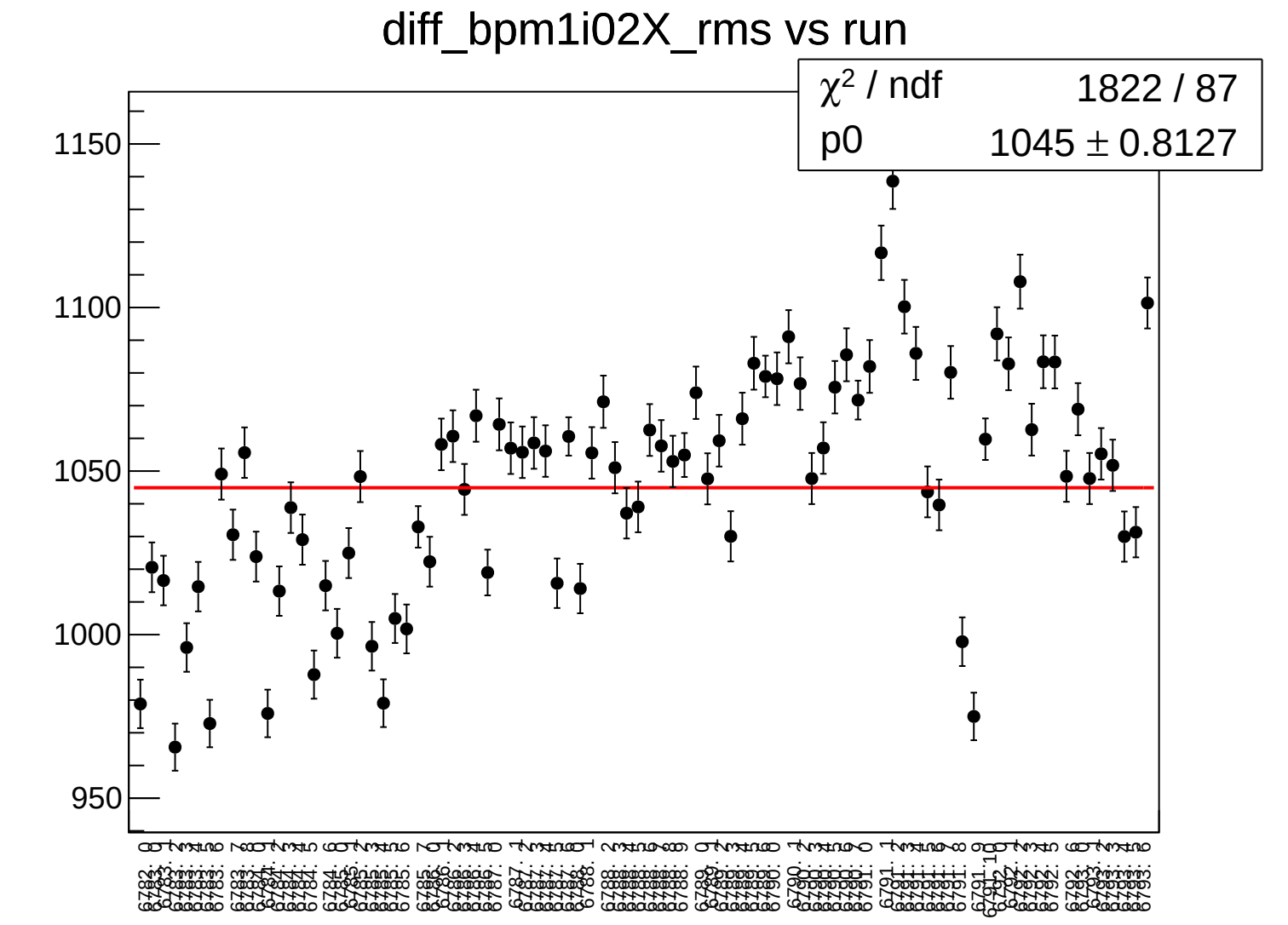

diff_bpm0i07Y_mean vs run
χ² / ndf 95.65 / 87
p0 7.01 ± 1.408
pull
Entries 88
Mean 189.2
Std Dev 0

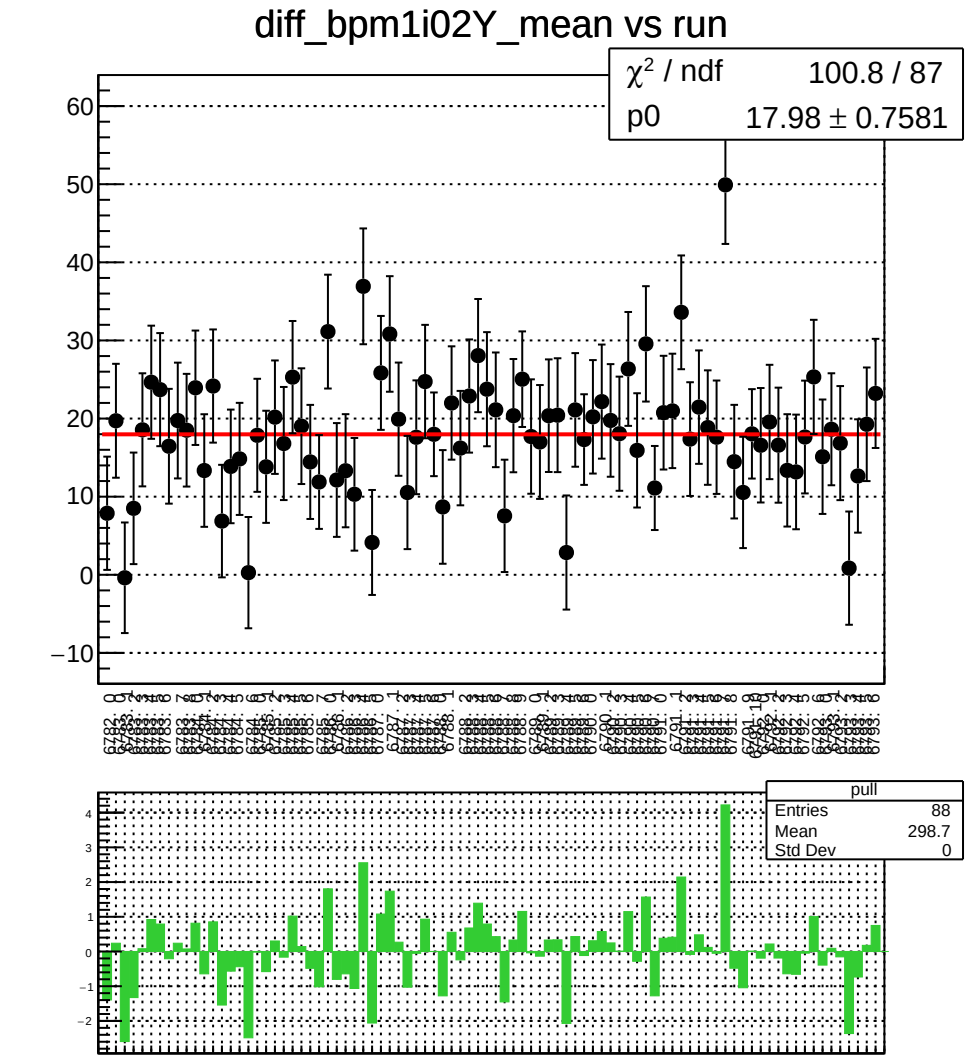

pull1D
Entries 88
Mean −0.007912
Std Dev 1.043

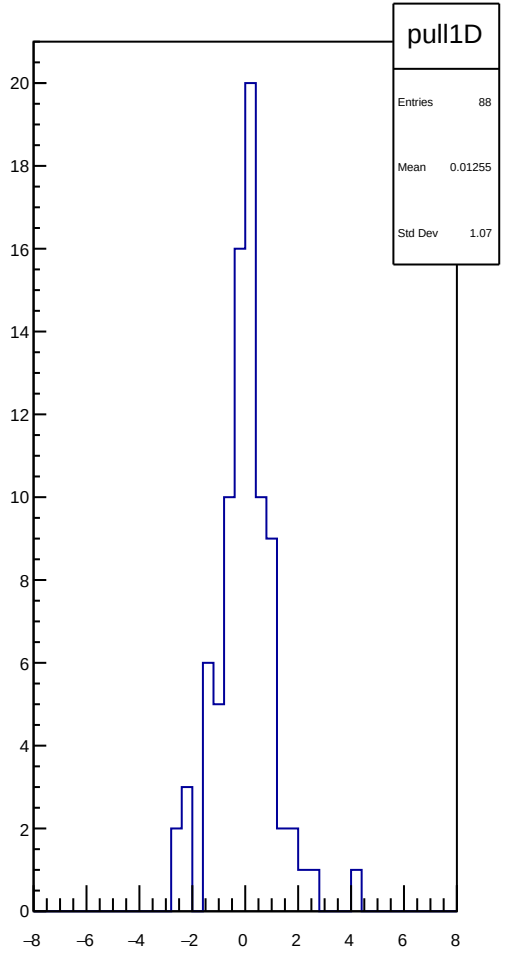

diff_bpm0i07Y_rms vs run
χ² / ndf 2797 / 87
p0 1280 ± 0.9959
1450
1400
1350
1300
1250
1200

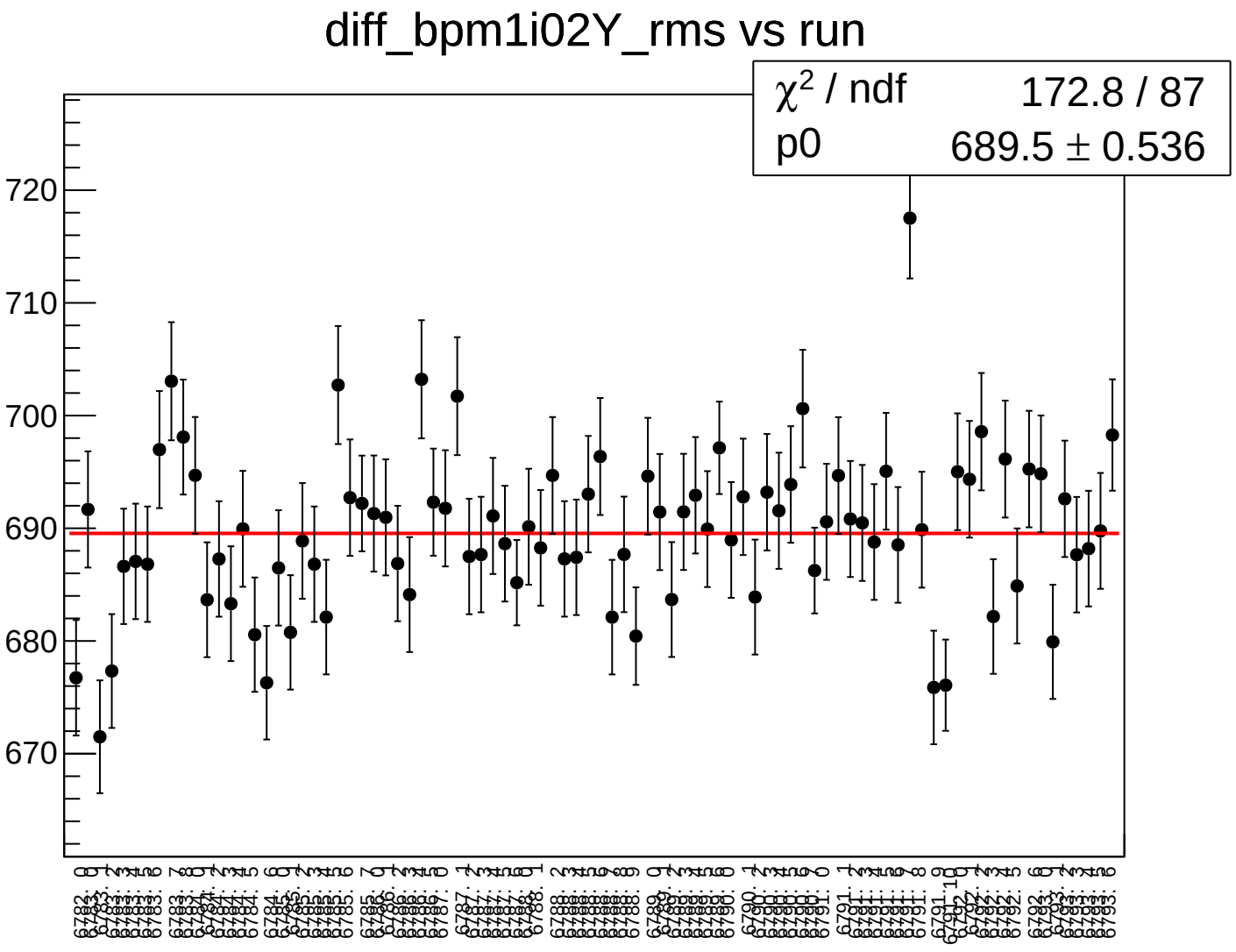

diff_bpm1i02X_mean vs run
χ² / ndf 98.5 / 87
p0 −14.07 ± 1.149
pull
Entries 88
Mean −38.74
Std Dev 0

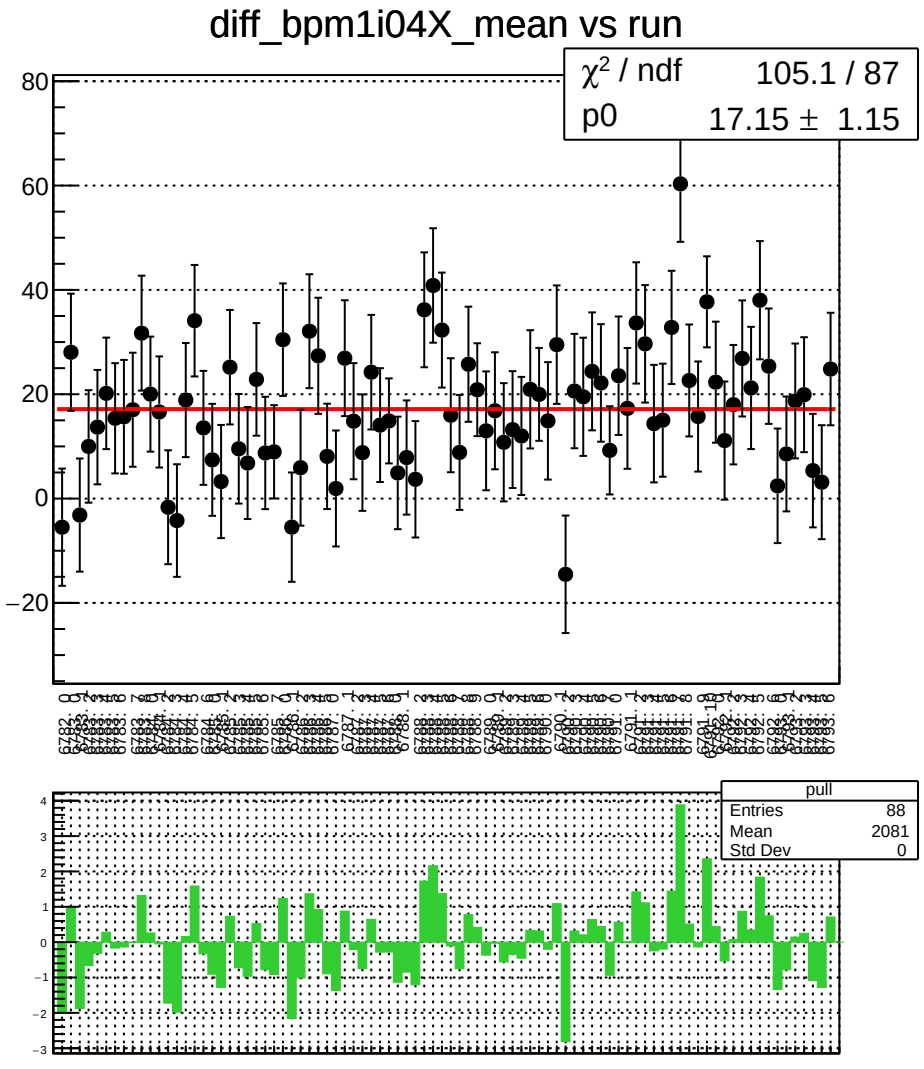

pull1D
Entries 88
Mean 0.0174
Std Dev 1.058

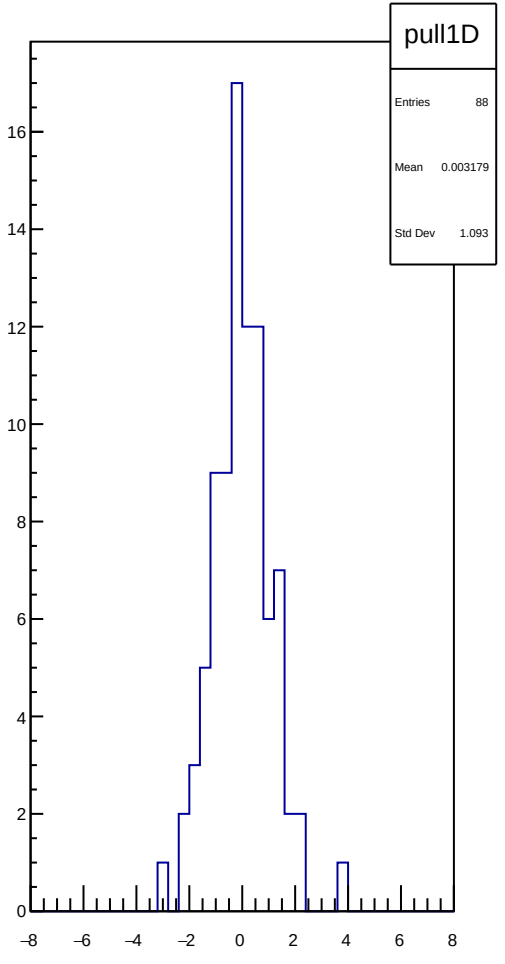

diff_bpm1i02X_rms vs run
χ² / ndf 1822 / 87
p0 1045 ± 0.8127
1150
1100
1050
1000
950

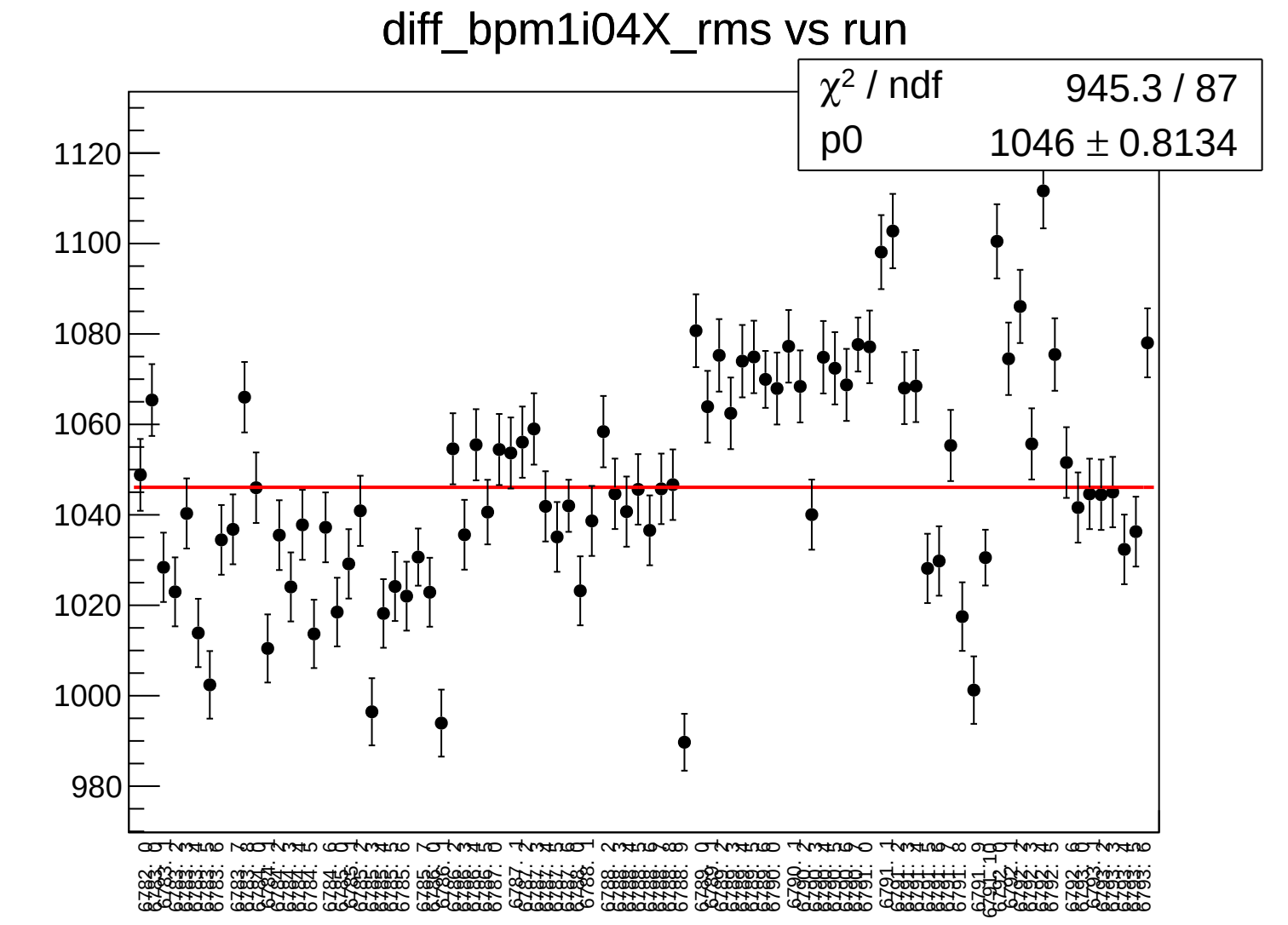

diff_bpm1i02Y_mean vs run
χ² / ndf 100.8 / 87
p0 17.98 ± 0.7581
pull
Entries 88
Mean 298.7
Std Dev 0

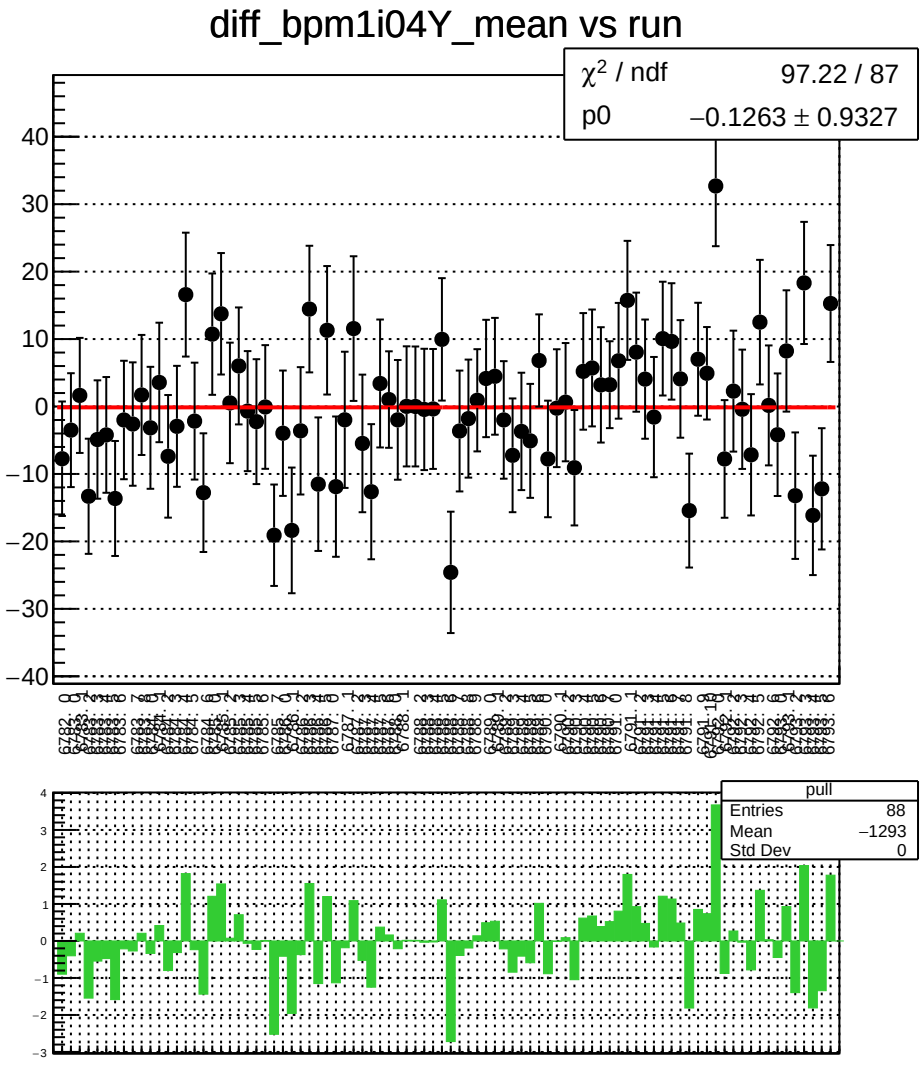

pull1D
Entries 88
Mean 0.01255
Std Dev 1.07

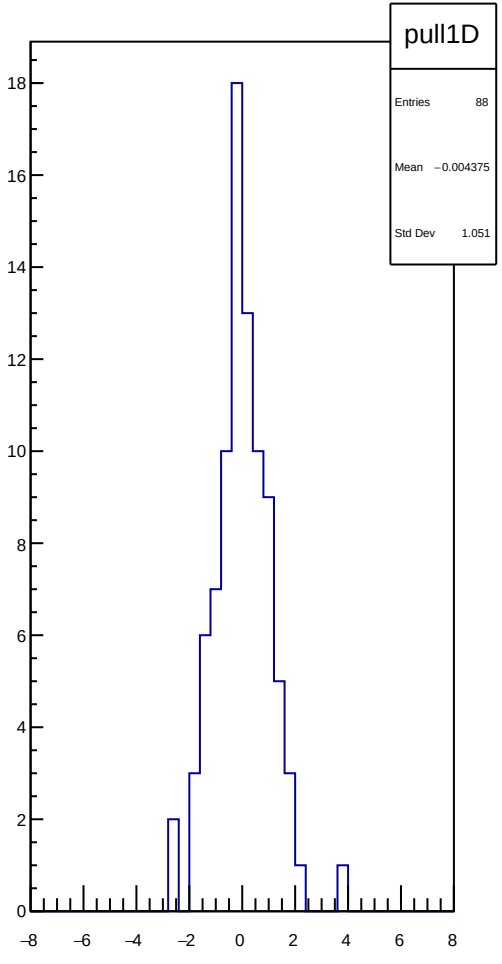

diff_bpm1i02Y_rms vs run
χ^2 / ndf 172.8 / 87
p0 689.5 ± 0.536
720
710
700
690
680
670

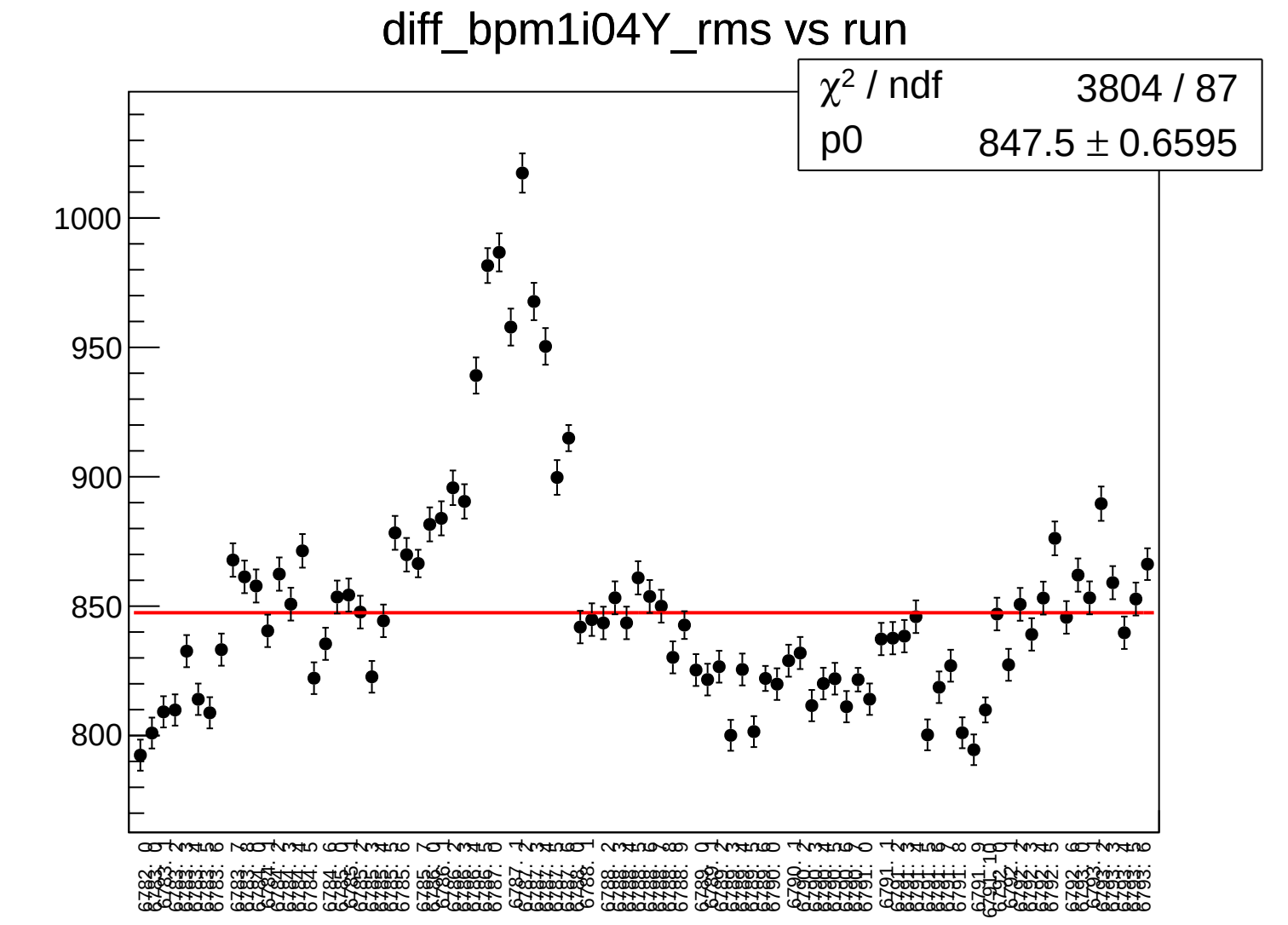

diff_bpm1i04X_mean vs run
χ² / ndf 105.1 / 87
p0 17.15 ± 1.15
pull
Entries 88
Mean 2081
Std Dev 0

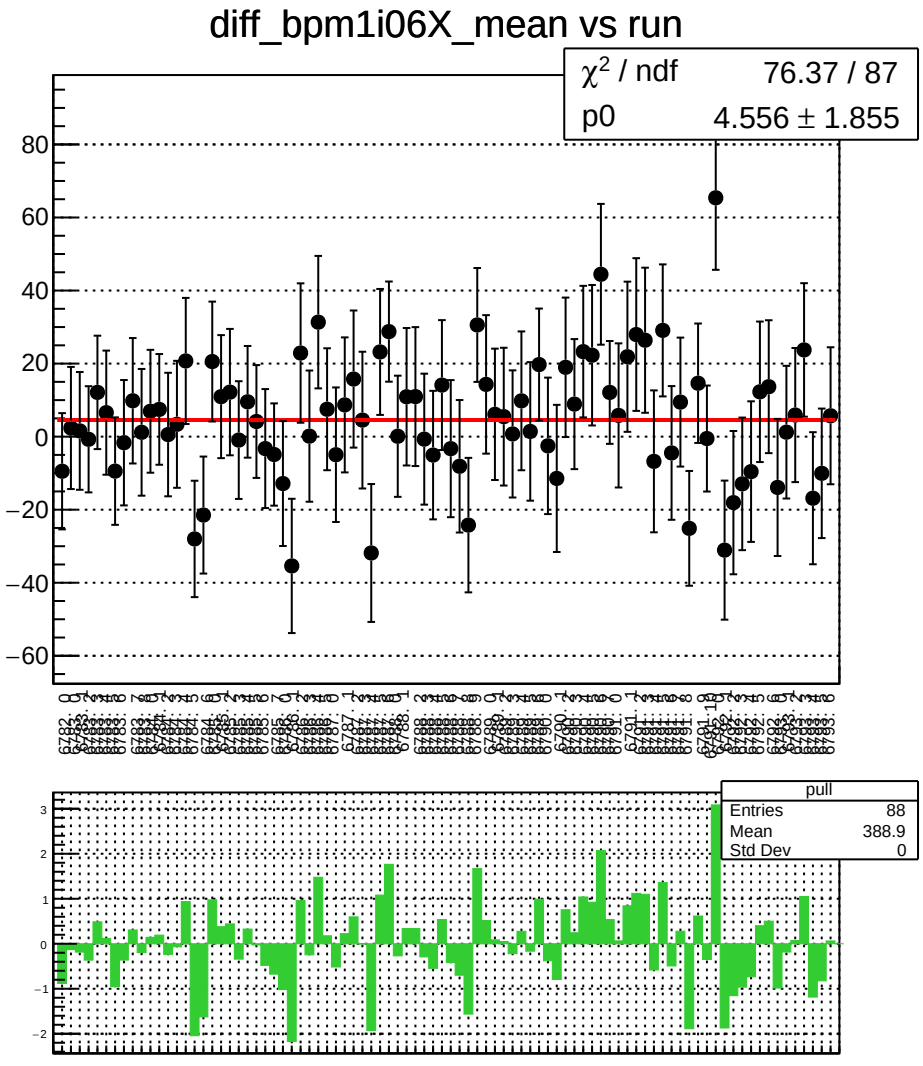

pull1D
Entries 88
Mean 0.003179
Std Dev 1.093

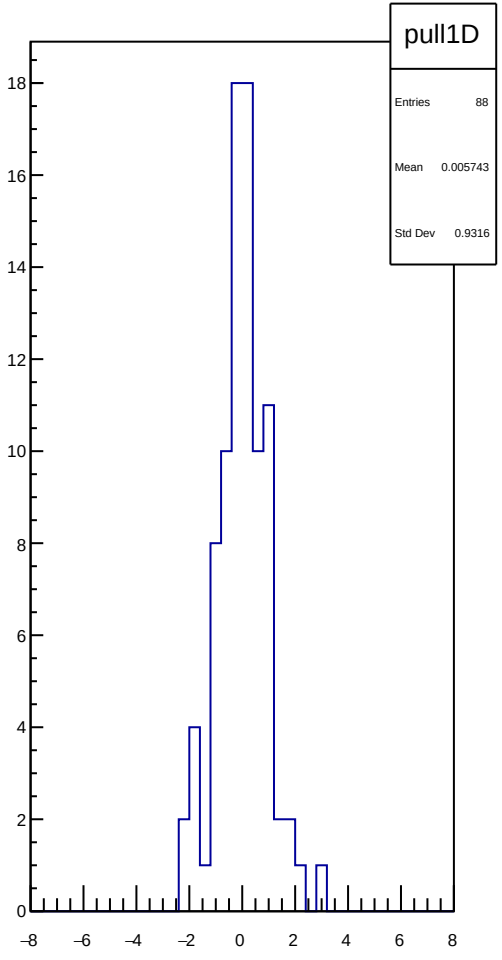

diff_bpm1i04X_rms vs run
χ² / ndf 945.3 / 87
p0 1046 ± 0.8134
1120
1100
1080
1060
1040
1020
1000
980

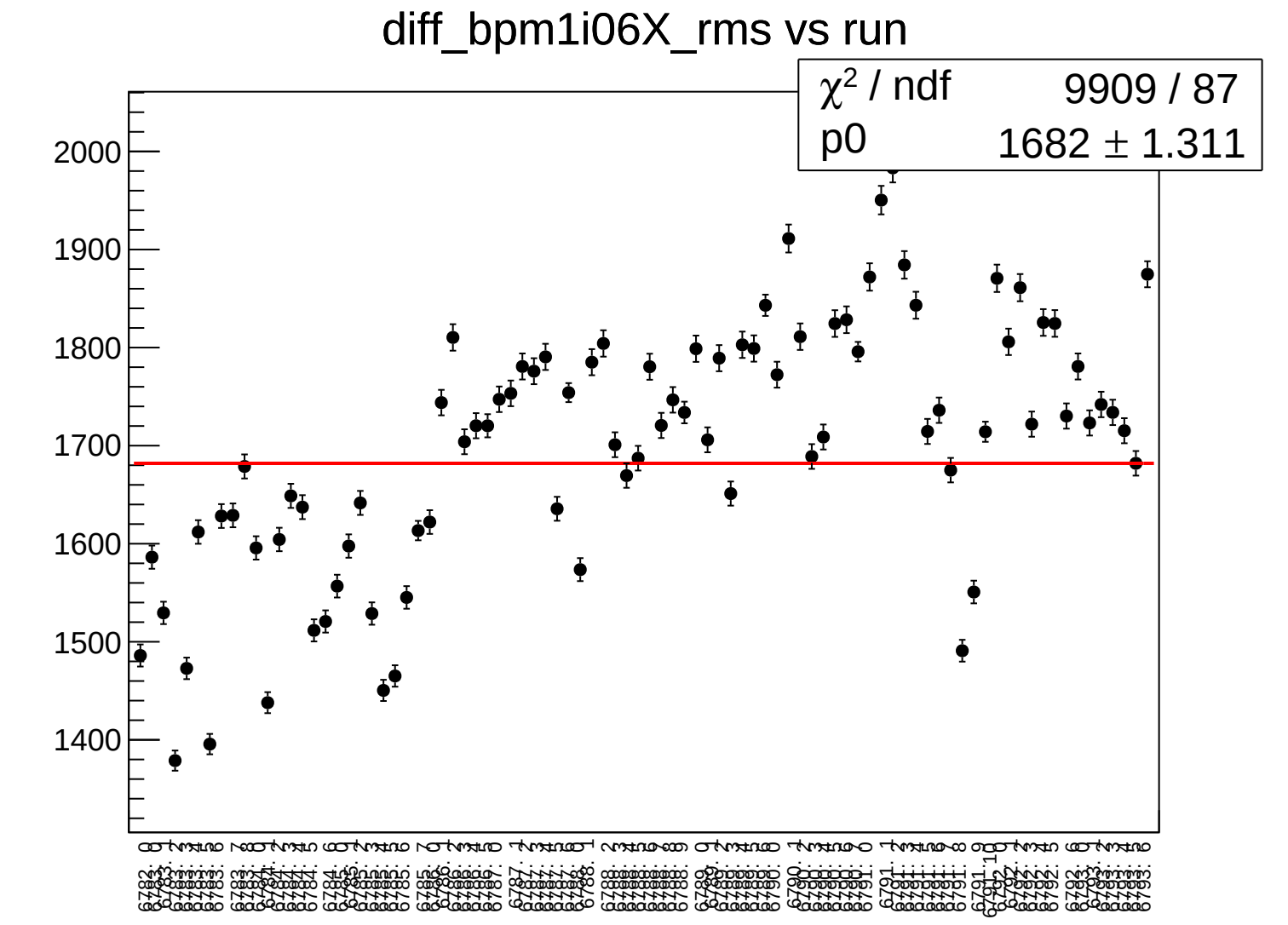

diff_bpm1i04Y_mean vs run
χ² / ndf 97.22 / 87
p0 −0.1263 ± 0.9327
pull
Entries 88
Mean −1293
Std Dev 0

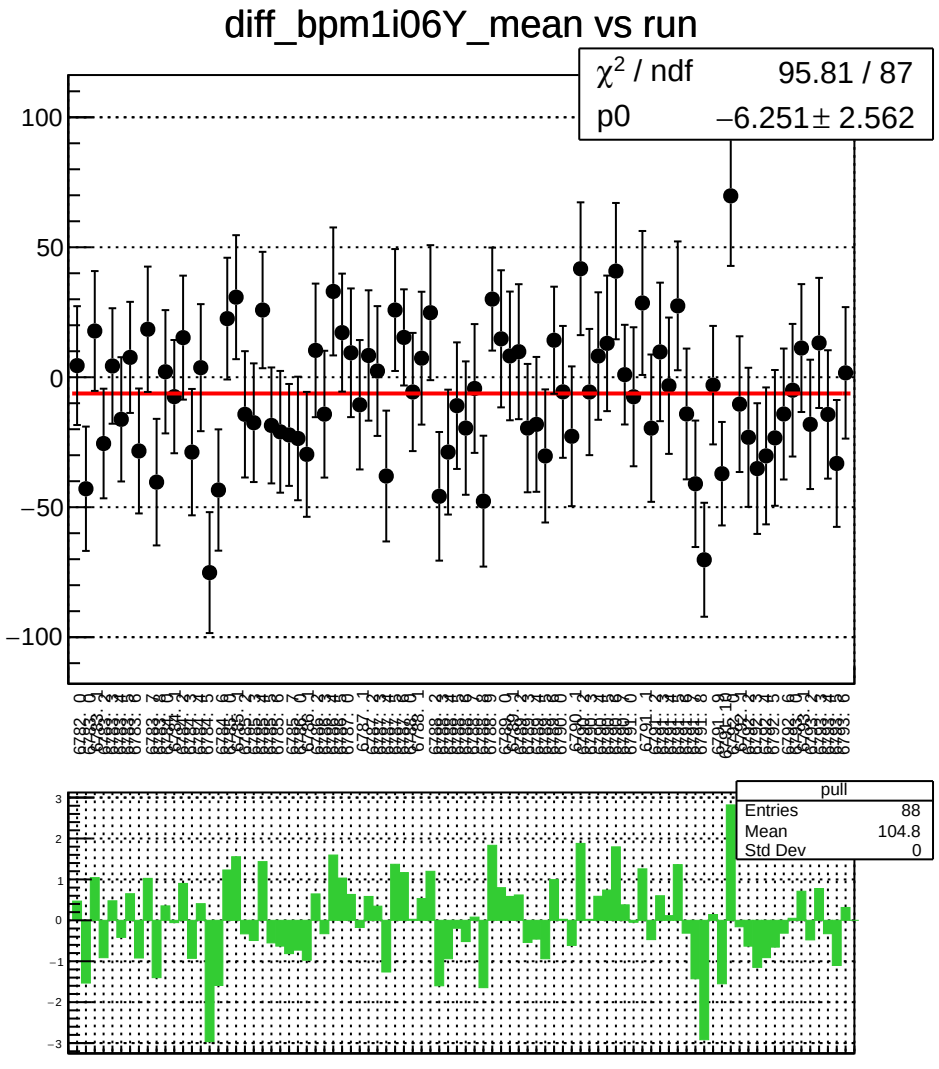

pull1D
Entries 88
Mean −0.004375
Std Dev 1.051

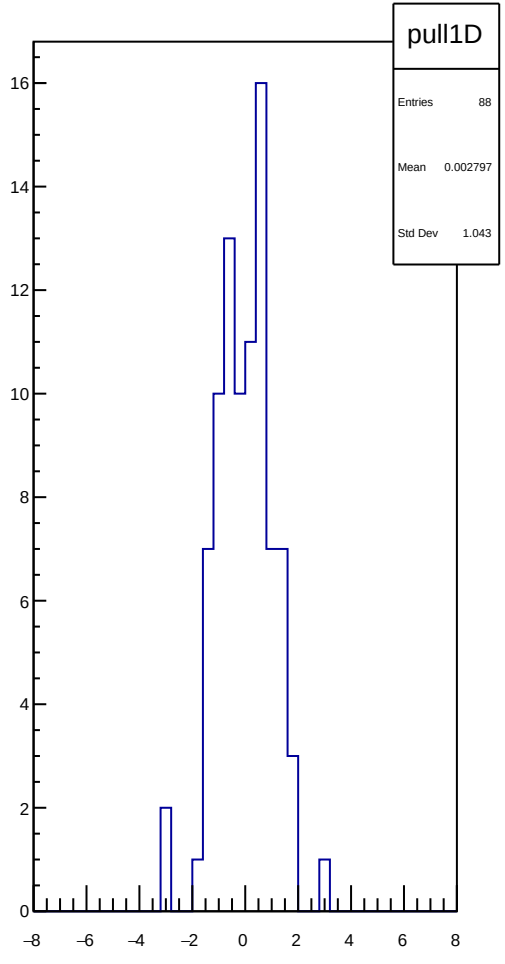

diff_bpm1i04Y_rms vs run
χ² / ndf 3804 / 87
p0 847.5 ± 0.6595
1000
950
900
850
800

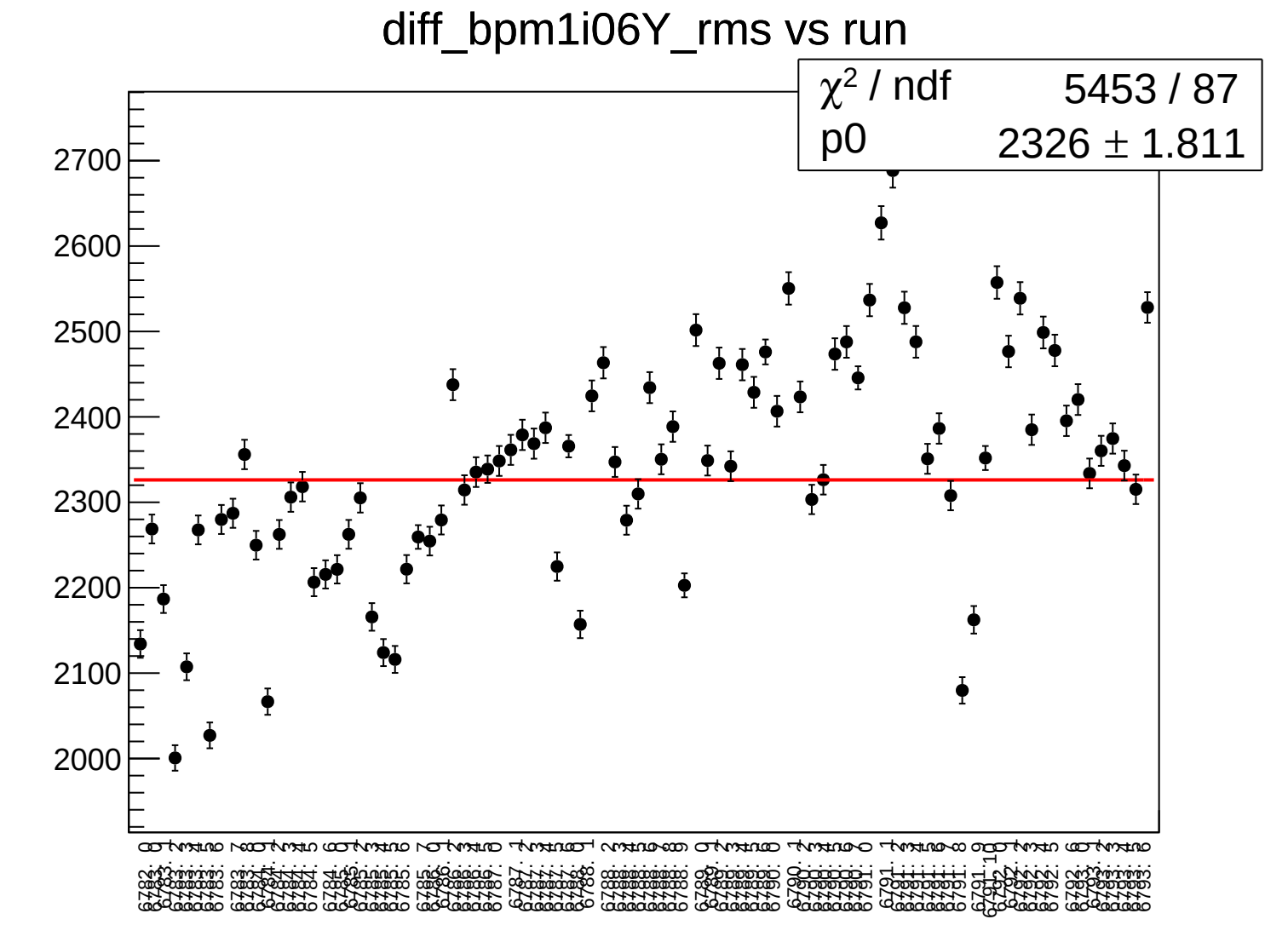

diff_bpm1i06X_mean vs run
χ² / ndf 76.37 / 87
p0 4.556 ± 1.855
pull
Entries 88
Mean 388.9
Std Dev 0

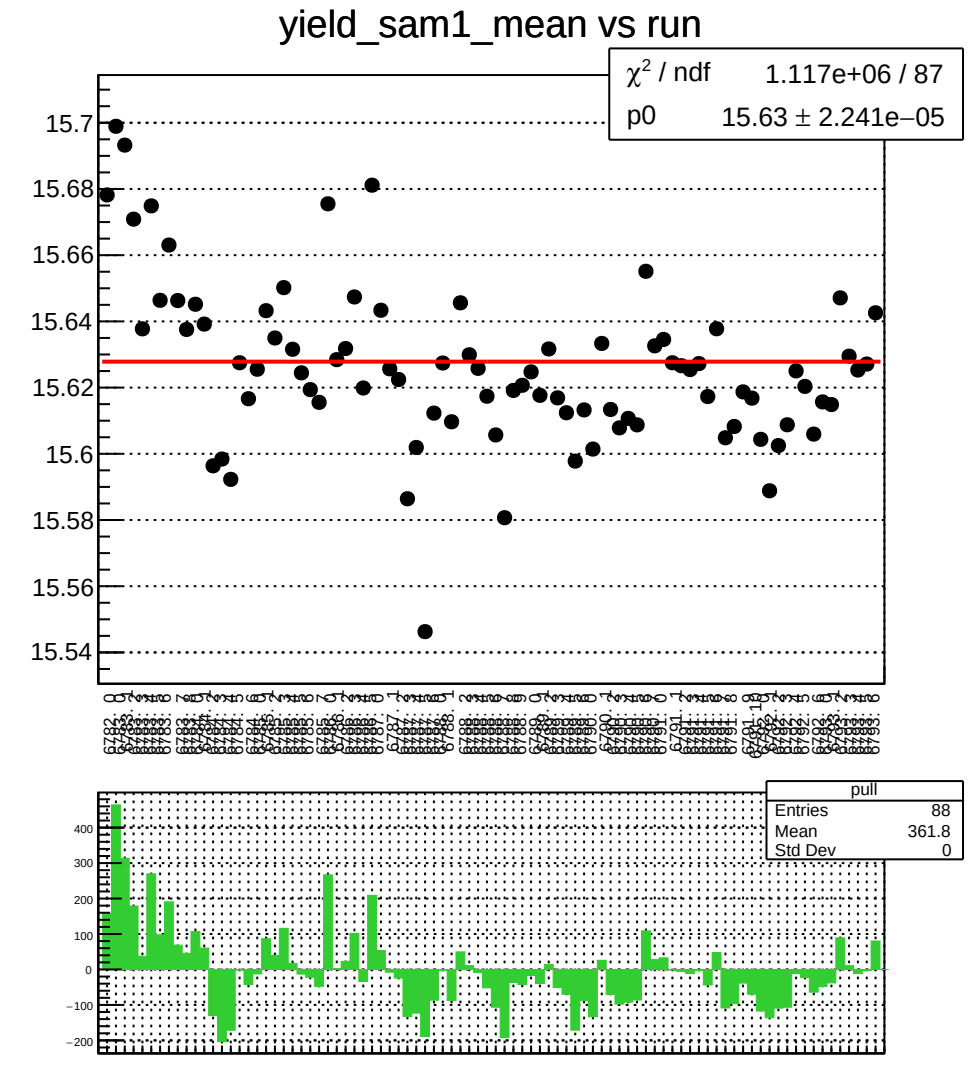

pull1D
Entries 88
Mean 0.005743
Std Dev 0.9316

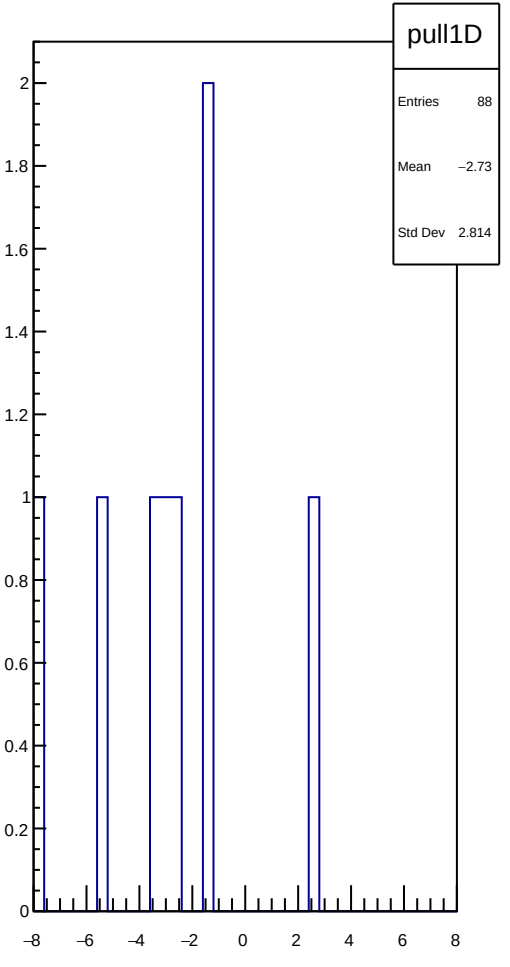

diff_bpm1i06X_rms vs run
χ² / ndf 9909 / 87
p0 1682 ± 1.311
2000
1900
1800
1700
1600
1500
1400

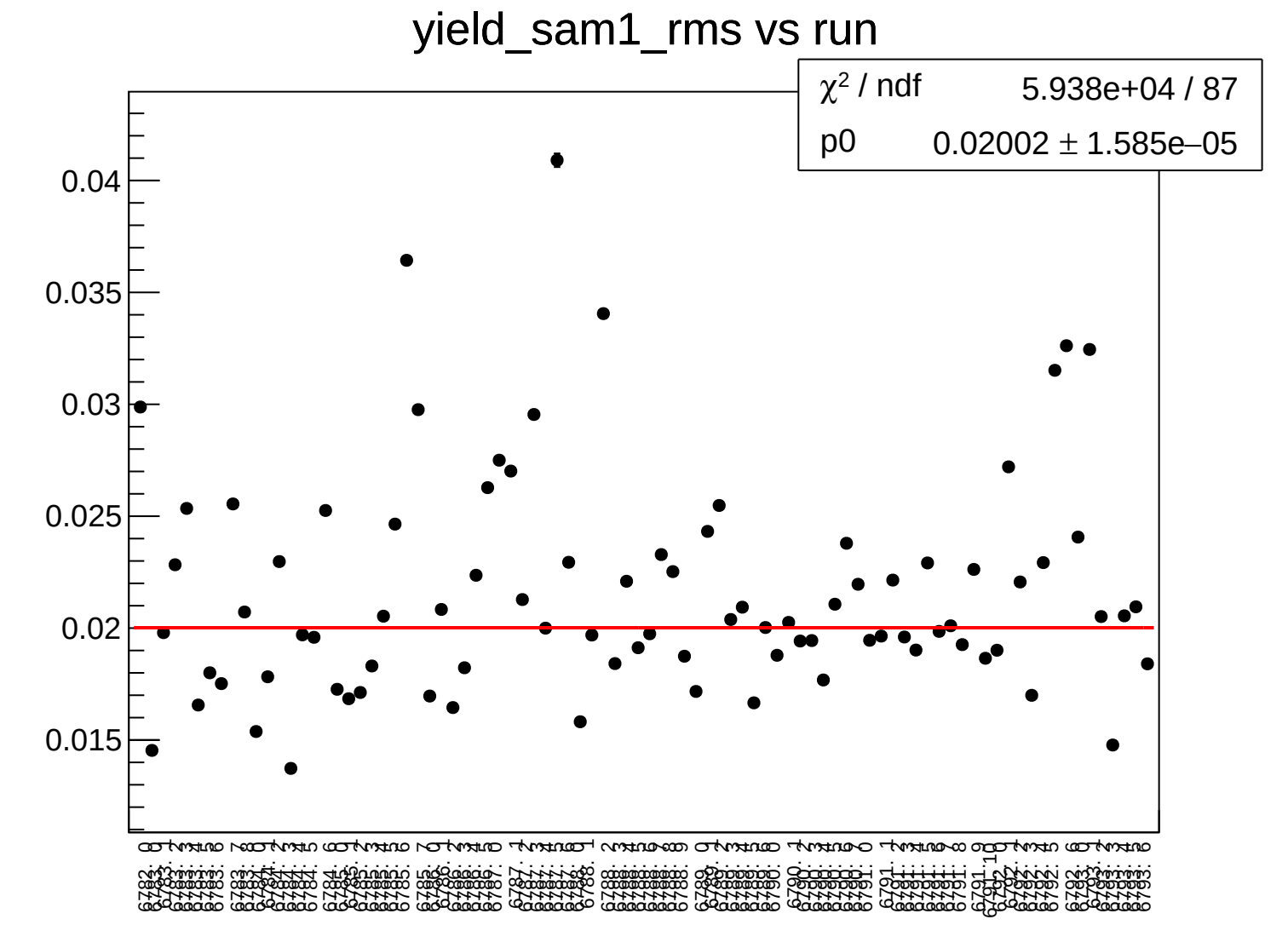

diff_bpm1i06Y_mean vs run
χ² / ndf 95.81 / 87
p0 −6.251 ± 2.562
100
50
0
−50
−100
pull
Entries 88
Mean 104.8
Std Dev 0
3
2
1
0
−1
−2
−3

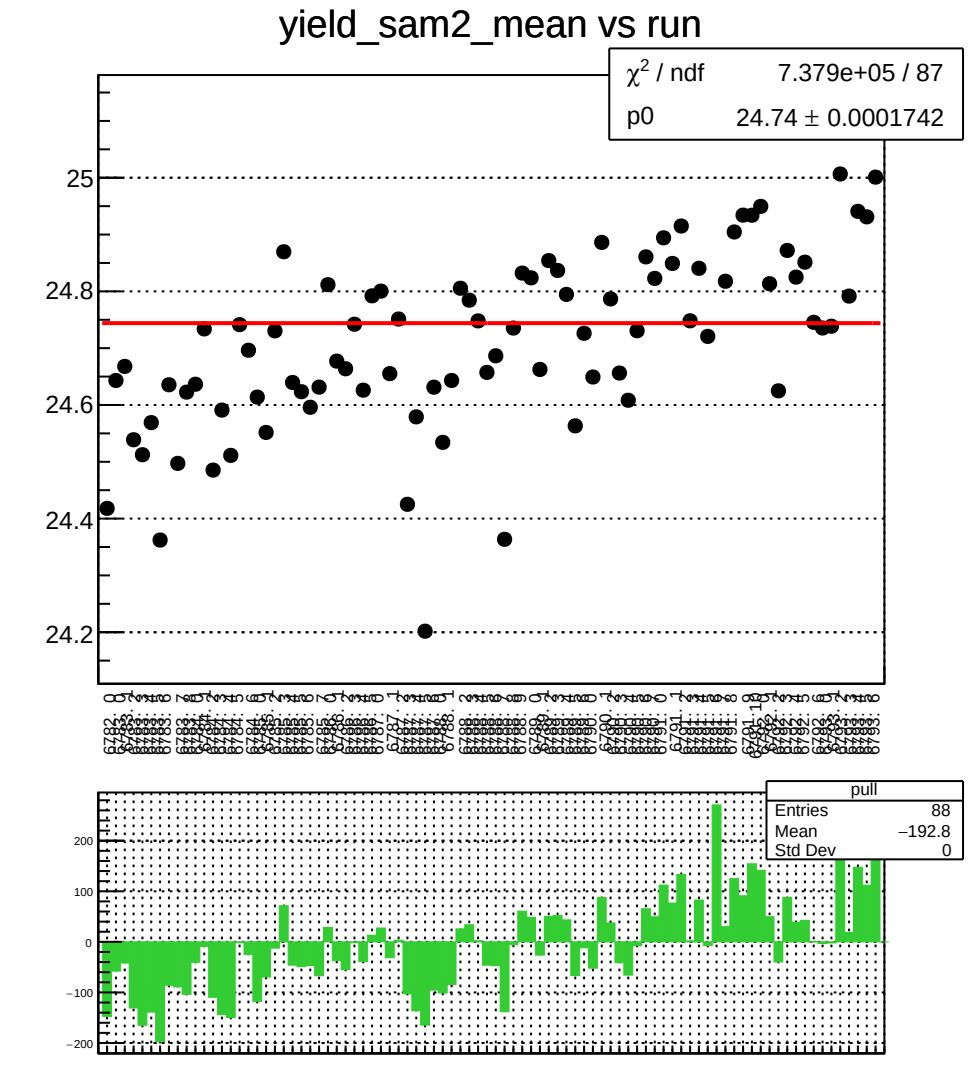

pull1D
Entries 88
Mean 0.002797
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

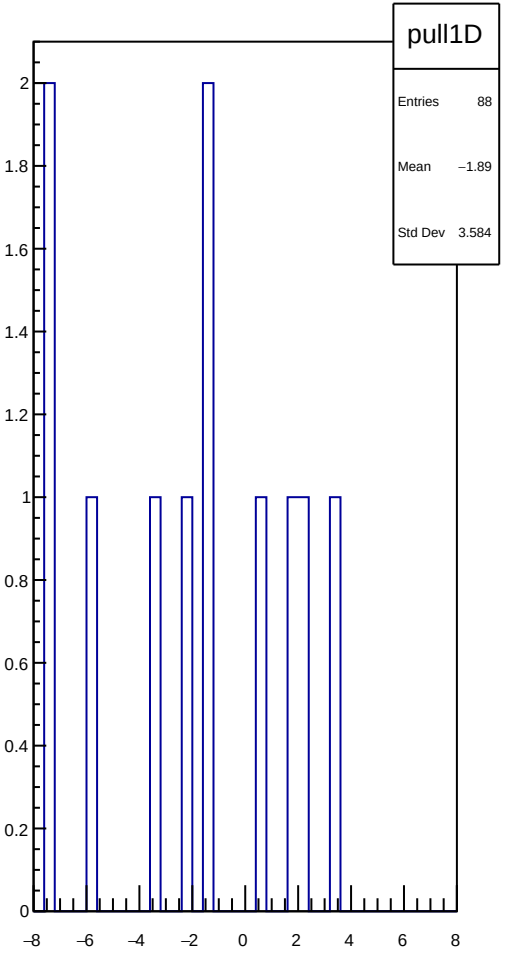

diff_bpm1i06Y_rms vs run
χ² / ndf 5453 / 87
p0 2326 ± 1.811
2700
2600
2500
2400
2300
2200
2100
2000

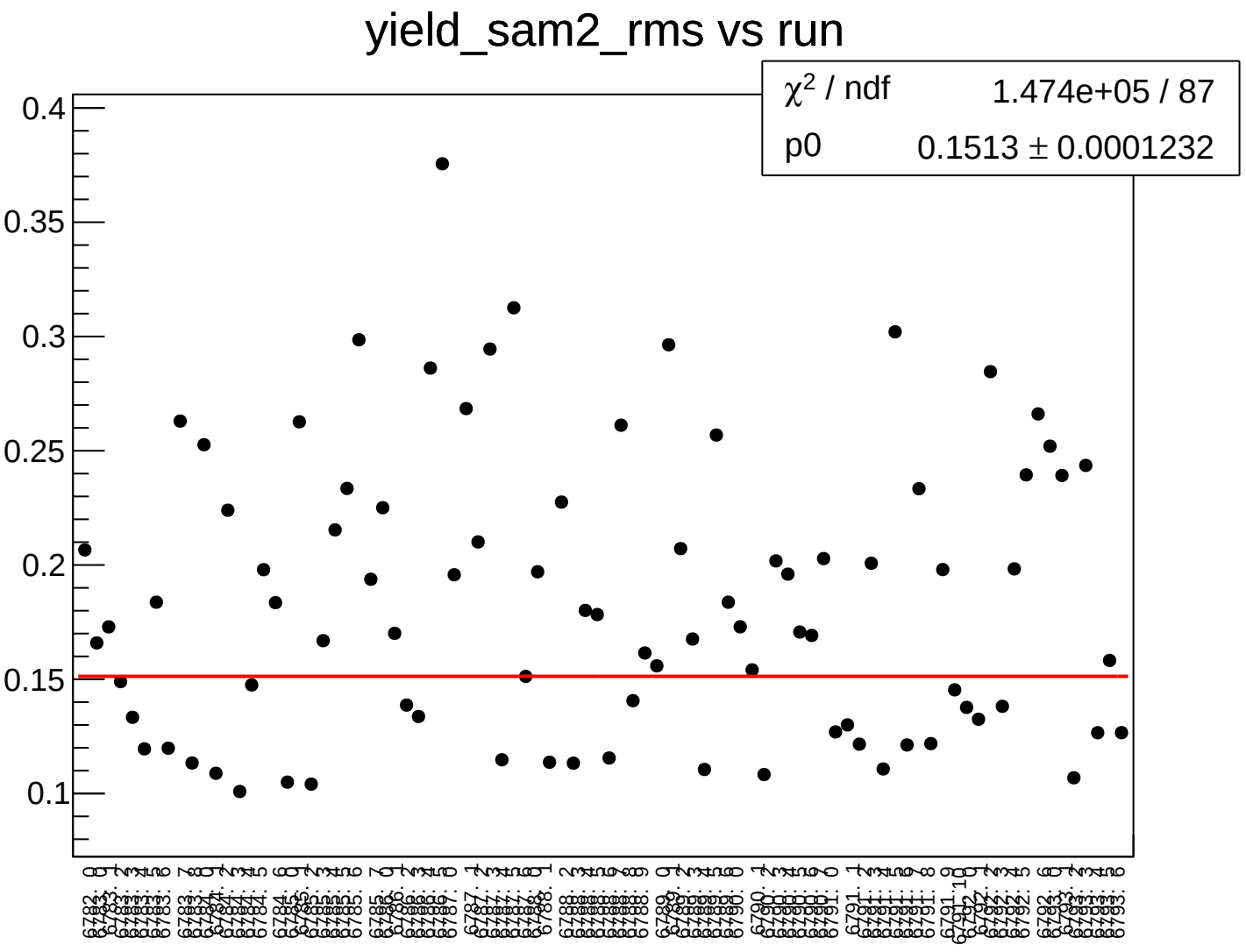

yield_sam1_mean vs run
χ² / ndf 1.117e+06 / 87
p0 15.63 ± 2.241e−05
15.7
15.68
15.66
15.64
15.62
15.6
15.58
15.56
15.54
pull
Entries 88
Mean 361.8
Std Dev 0
400
300
200
100
0
−100
−200

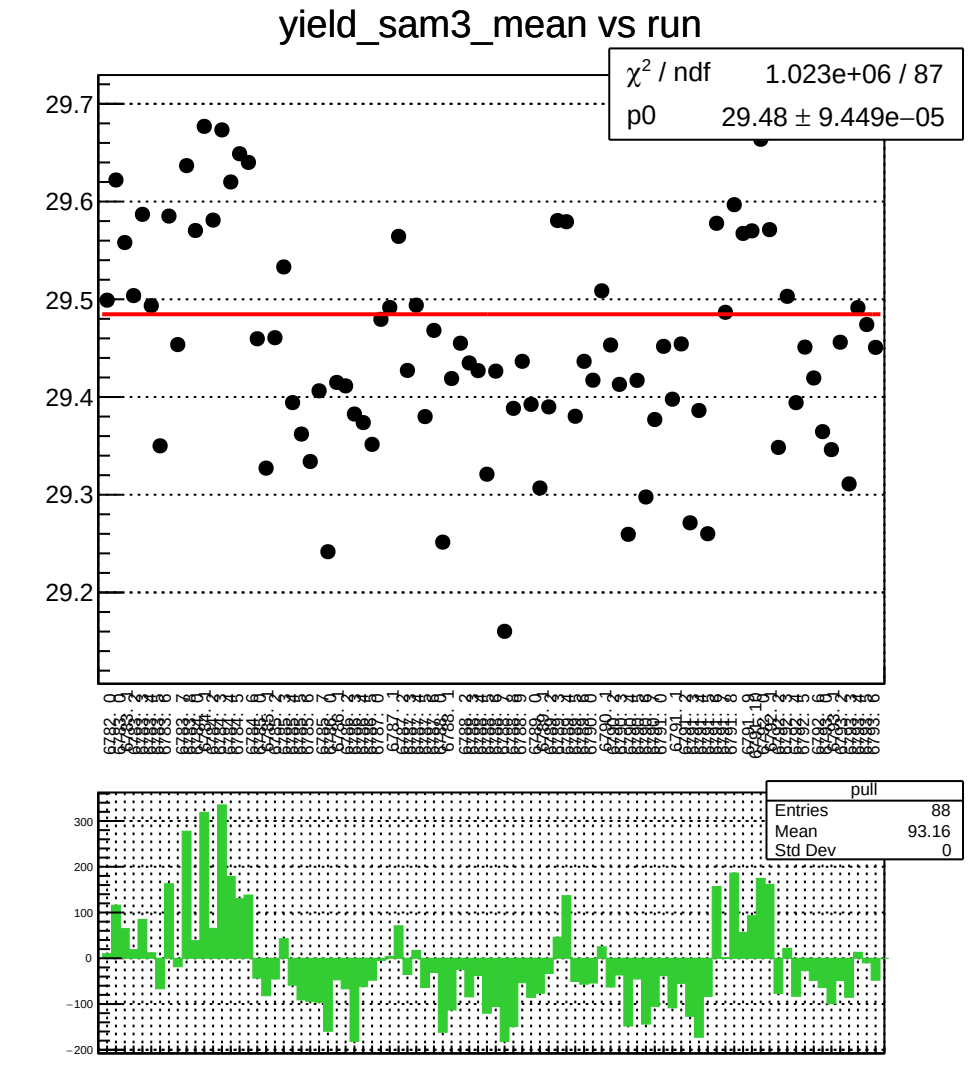

pull1D
Entries 88
Mean −2.73
Std Dev 2.814
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

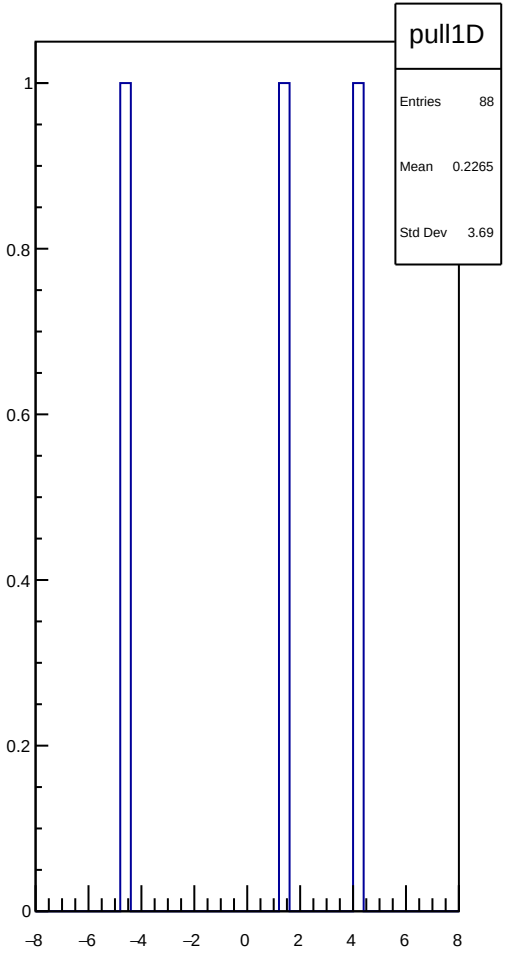

yield_sam1_rms vs run
χ^2 / ndf 5.938e+04 / 87
p0 0.02002 ± 1.585e−05
0.04
0.035
0.03
0.025
0.02
0.015

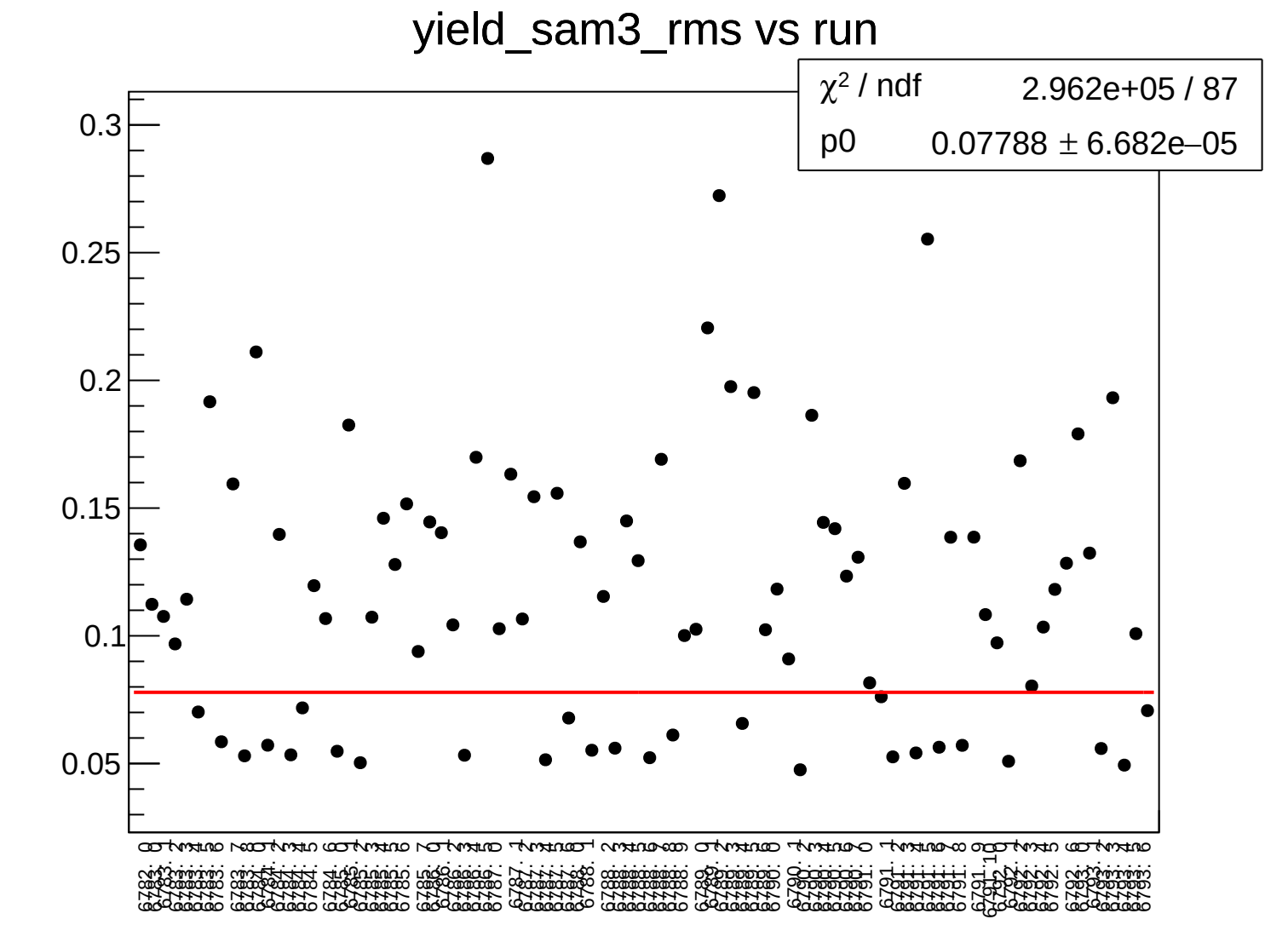

yield_sam2_mean vs run
χ² / ndf 7.379e+05 / 87
p0 24.74 ± 0.0001742
25
24.8
24.6
24.4
24.2
pull
Entries 88
Mean −192.8
Std Dev 0
200
100
0
−100
−200

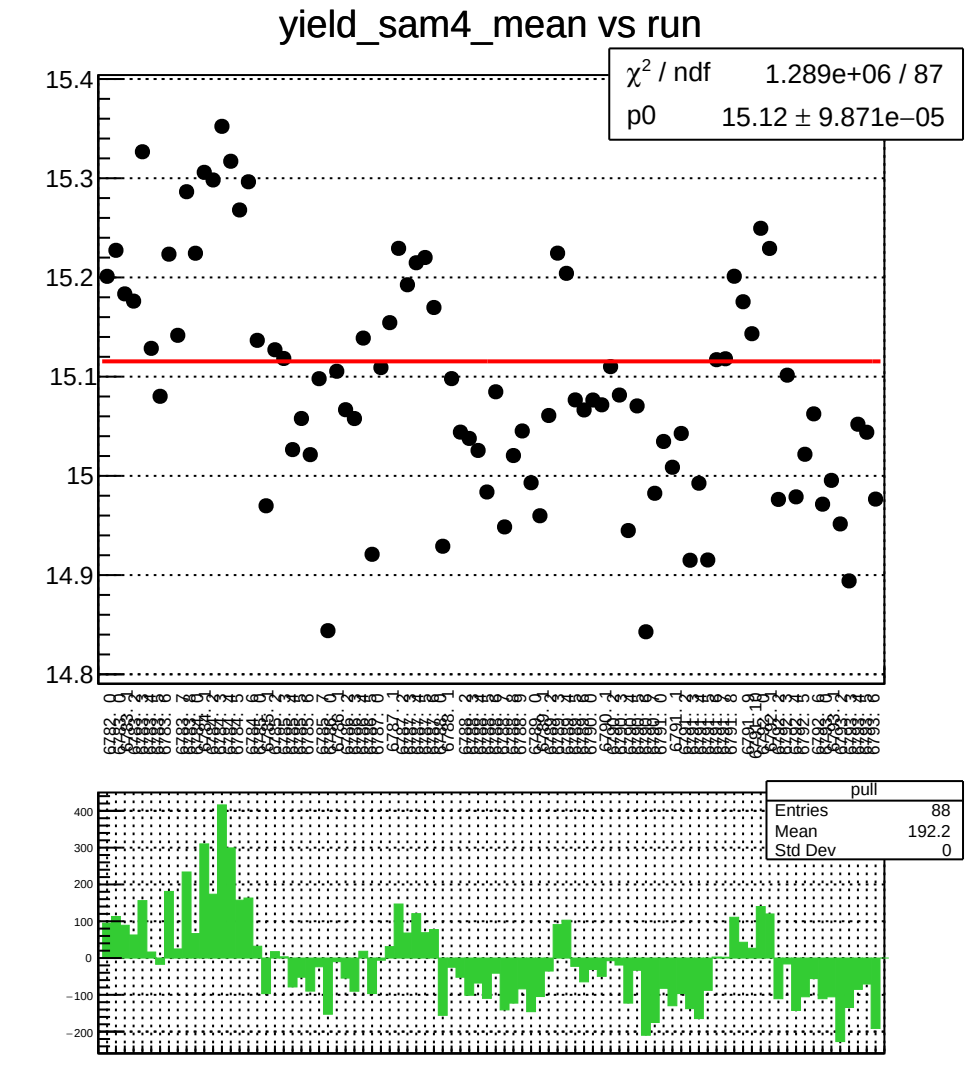

pull1D
Entries 88
Mean −1.89
Std Dev 3.584
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

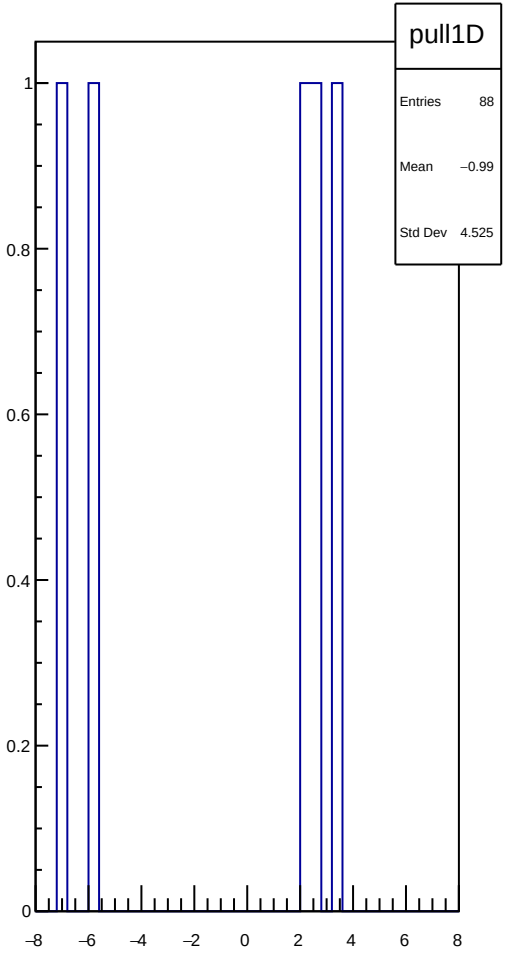

yield_sam2_rms vs run
χ² / ndf 1.474e+05 / 87
p0 0.1513 ± 0.0001232
0.4
0.35
0.3
0.25
0.2
0.15
0.1

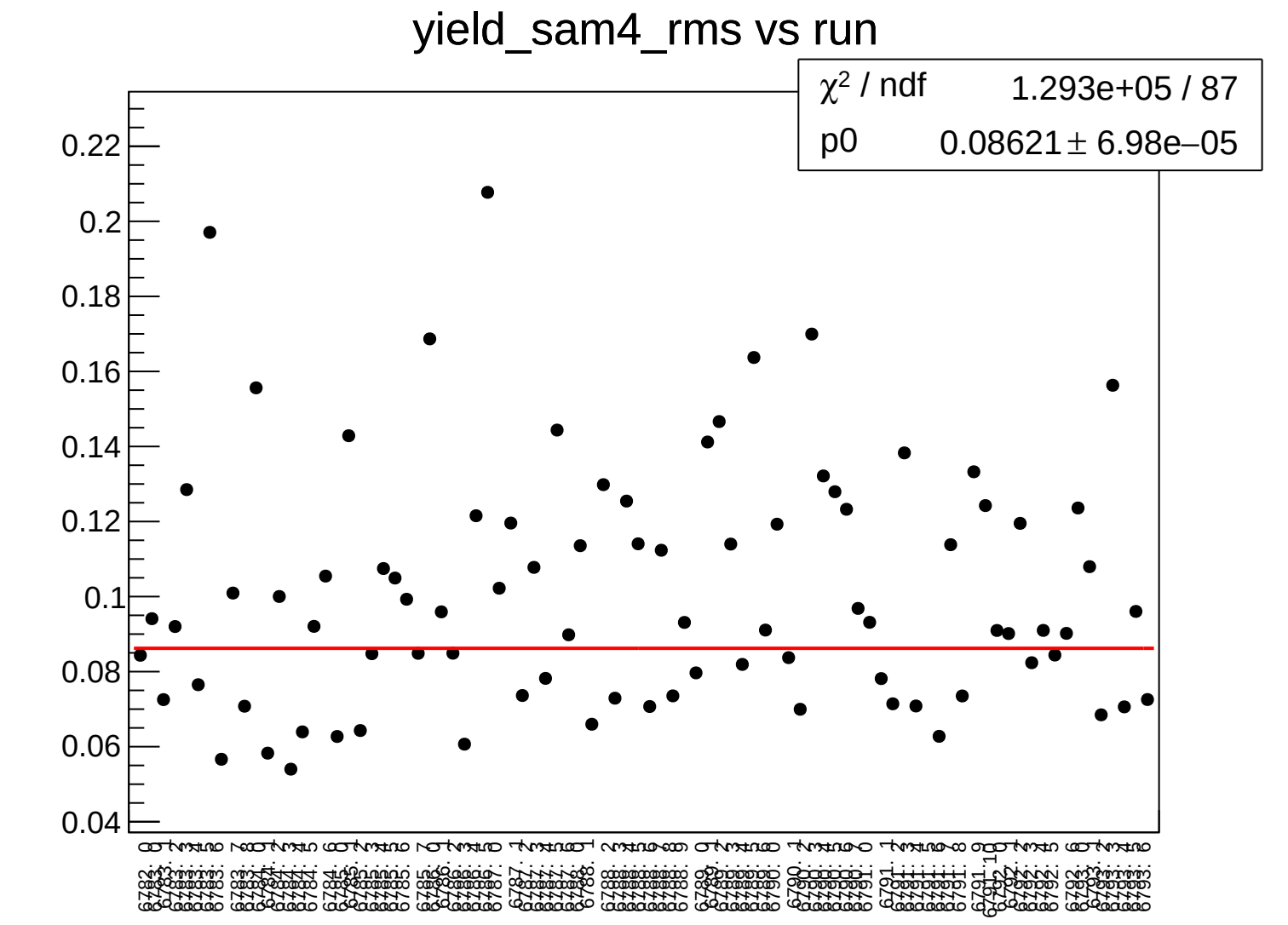

yield_sam3_mean vs run
χ² / ndf 1.023e+06 / 87
p0 29.48 ± 9.449e−05
29.7
29.6
29.5
29.4
29.3
29.2
pull
Entries 88
Mean 93.16
Std Dev 0
300
200
100
0
−100
−200

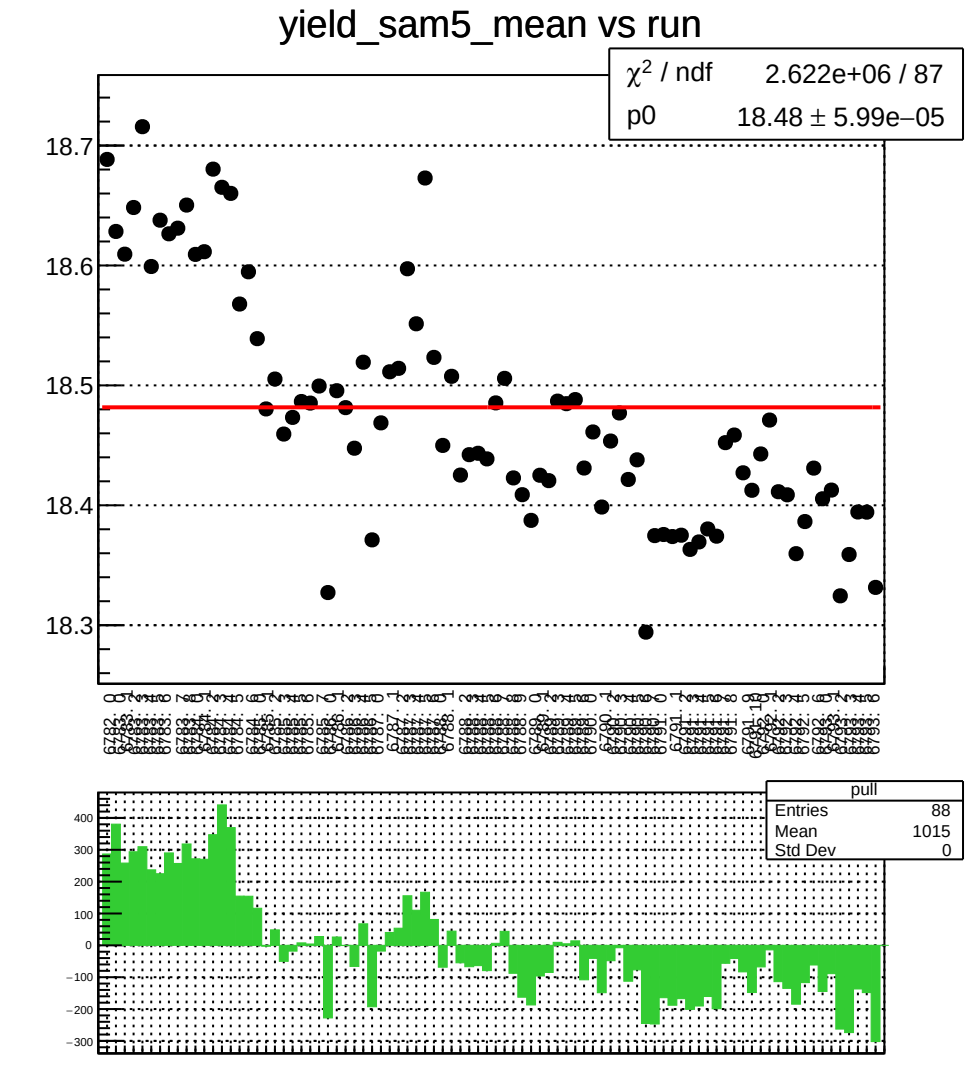

pull1D
Entries 88
Mean 0.2265
Std Dev 3.69
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

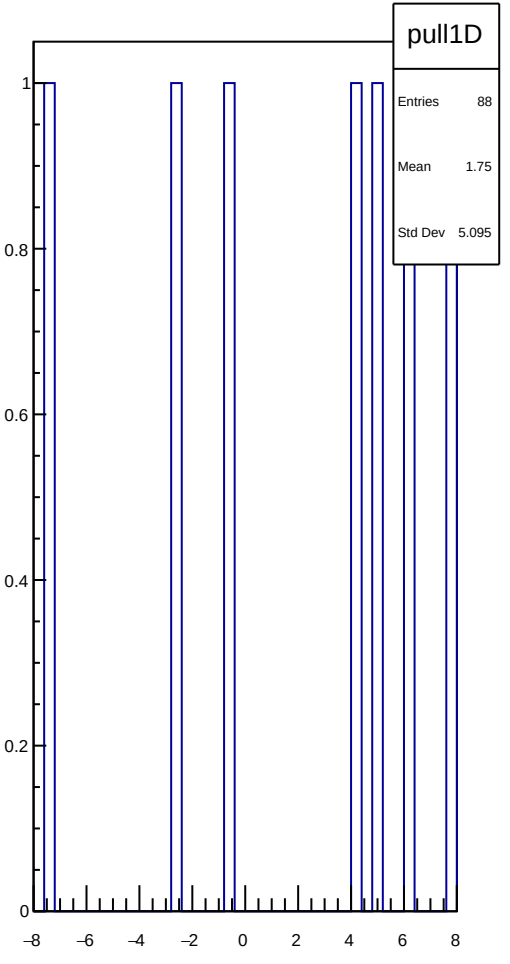

yield_sam3_rms vs run
χ² / ndf 2.962e+05 / 87
p0 0.07788 ± 6.682e–05
0.3
0.25
0.2
0.15
0.1
0.05

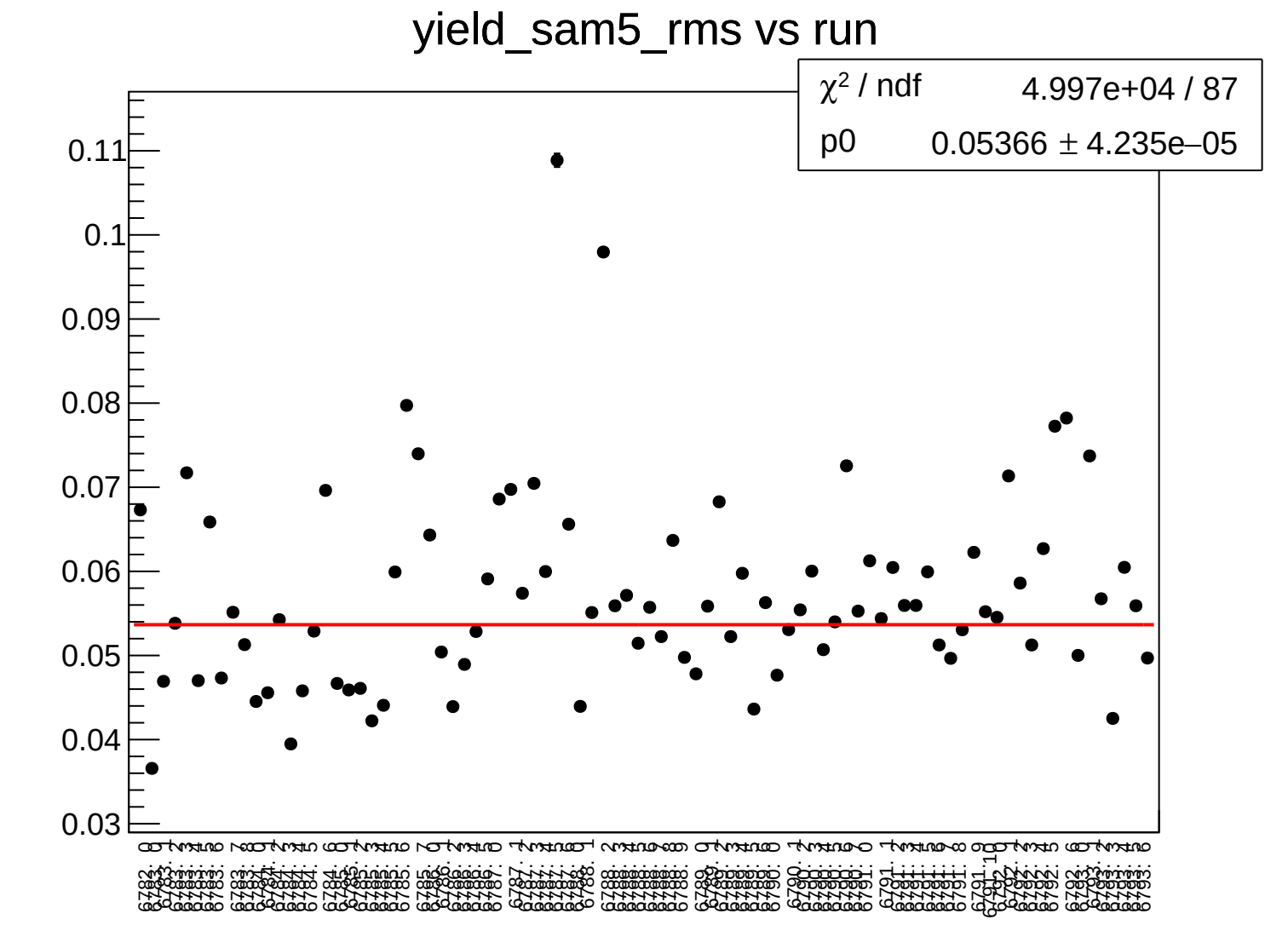

yield_sam4_mean vs run
χ² / ndf 1.289e+06 / 87
p0 15.12 ± 9.871e−05
15.4
15.3
15.2
15.1
15
14.9
14.8
pull
Entries 88
Mean 192.2
Std Dev 0
400
300
200
100
0
−100
−200

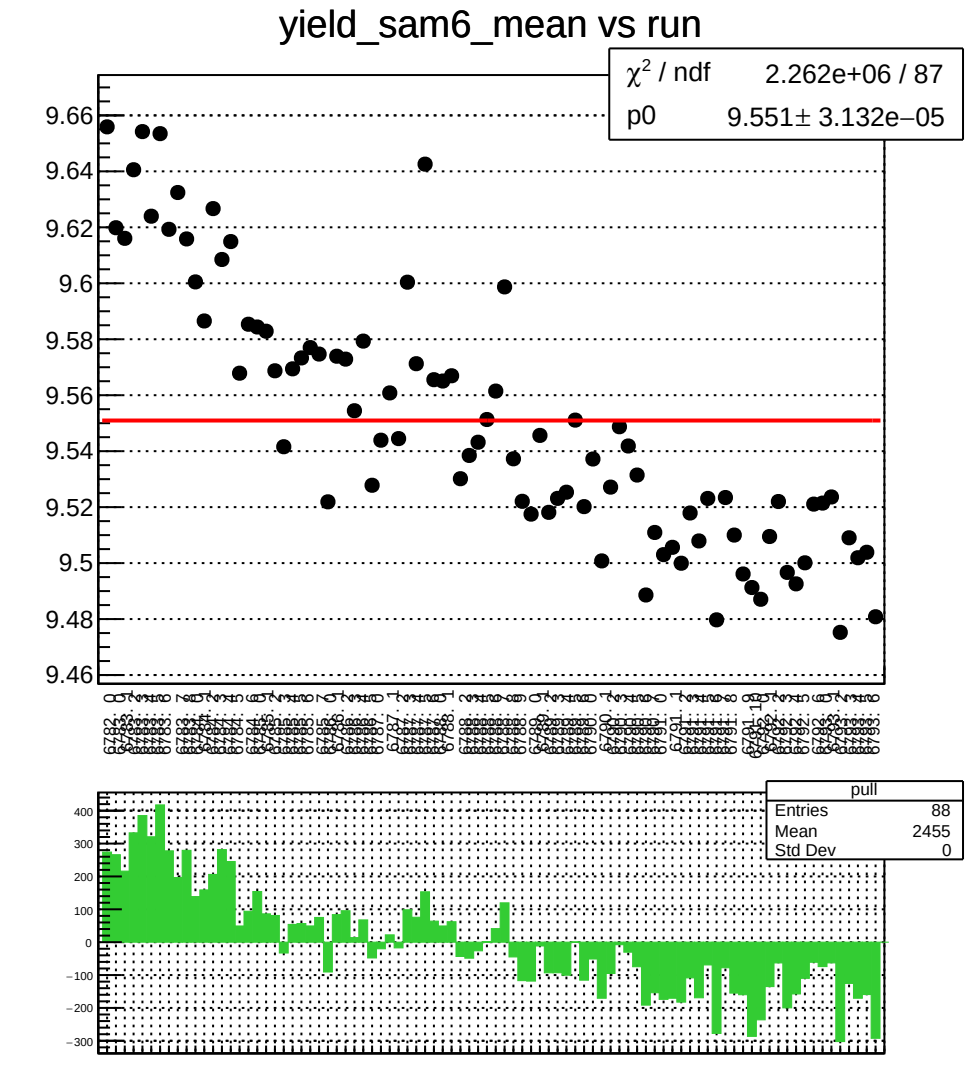

pull1D
Entries 88
Mean −0.99
Std Dev 4.525
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

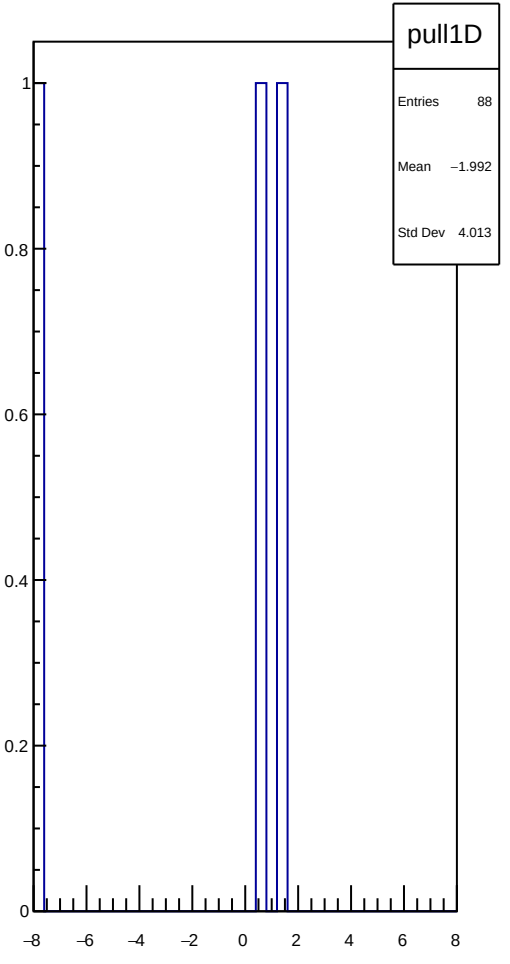

yield_sam4_rms vs run
χ² / ndf 1.293e+05 / 87
p0 0.08621 ± 6.98e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

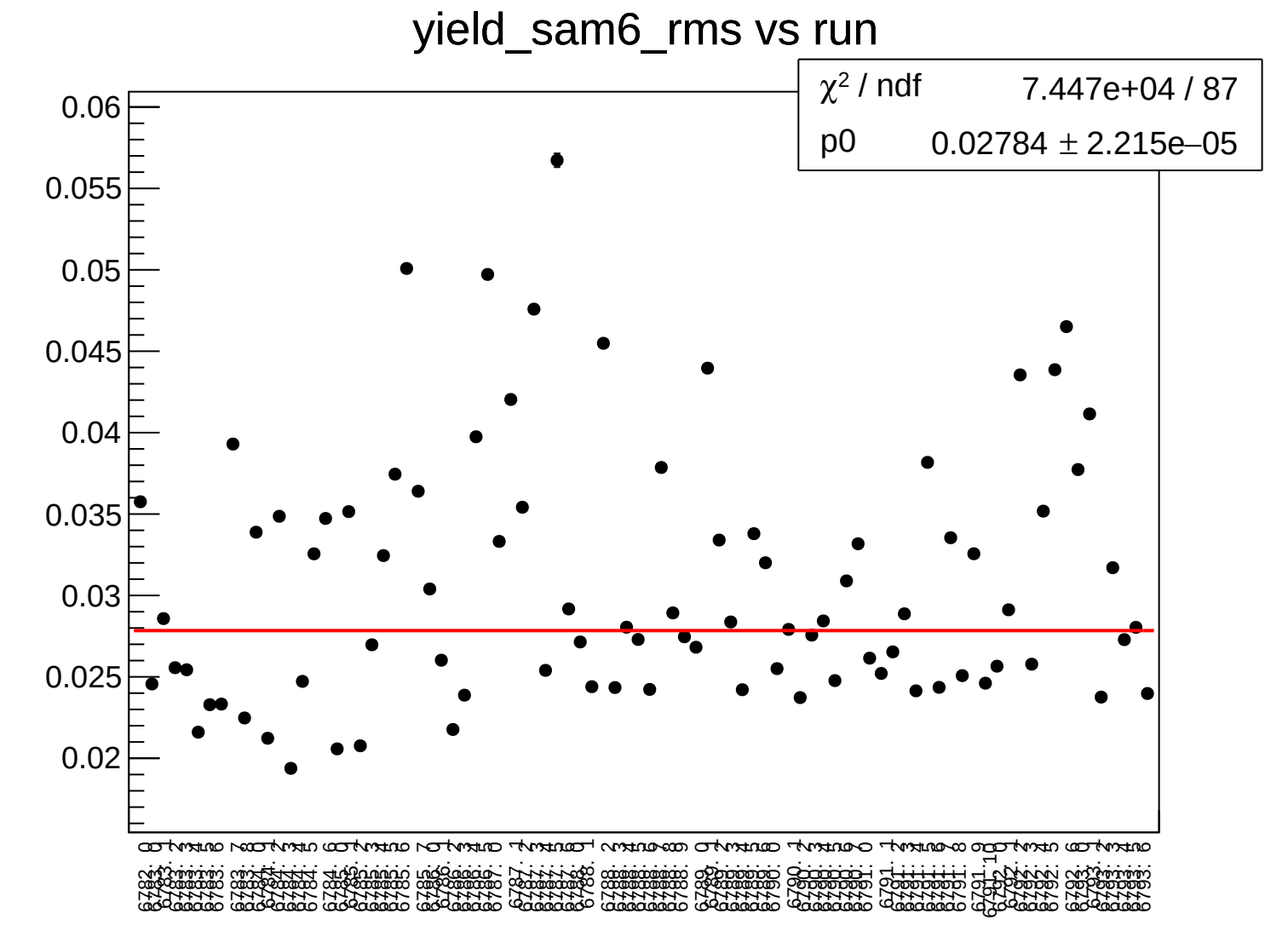

yield_sam5_mean vs run
χ² / ndf 2.622e+06 / 87
p0 18.48 ± 5.99e−05
18.7
18.6
18.5
18.4
18.3
pull
Entries 88
Mean 1015
Std Dev 0
400
300
200
100
0
−100
−200
−300

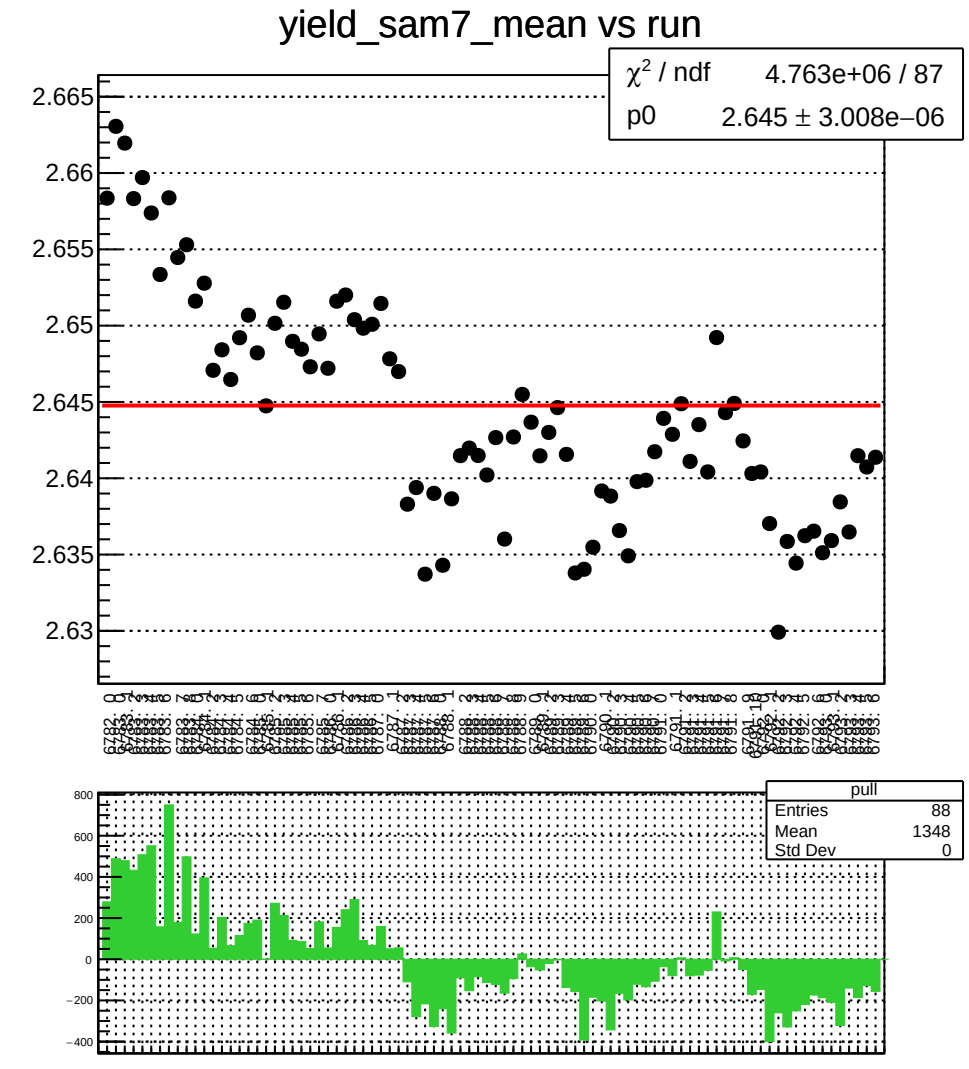

pull1D
Entries 88
Mean 1.75
Std Dev 5.095
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

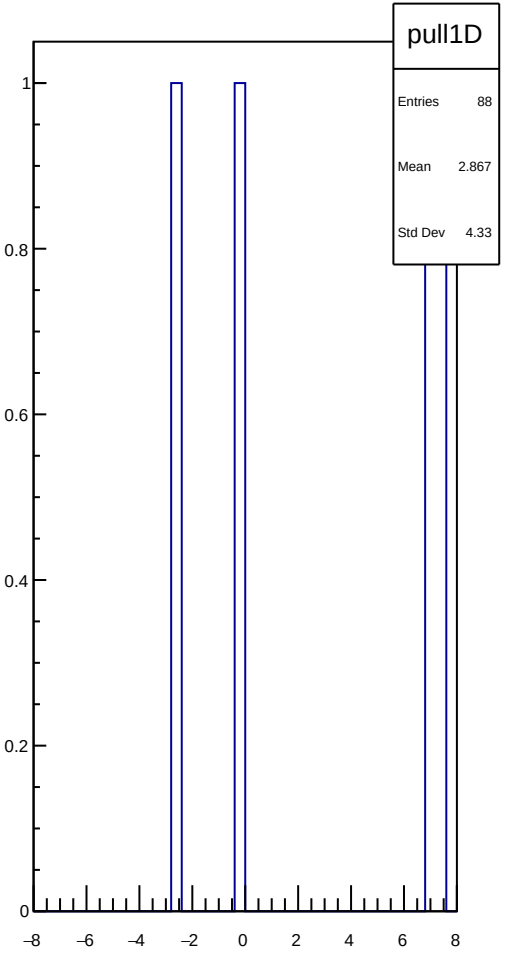

yield_sam5_rms vs run
χ² / ndf 4.997e+04 / 87
p0 0.05366 ± 4.235e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

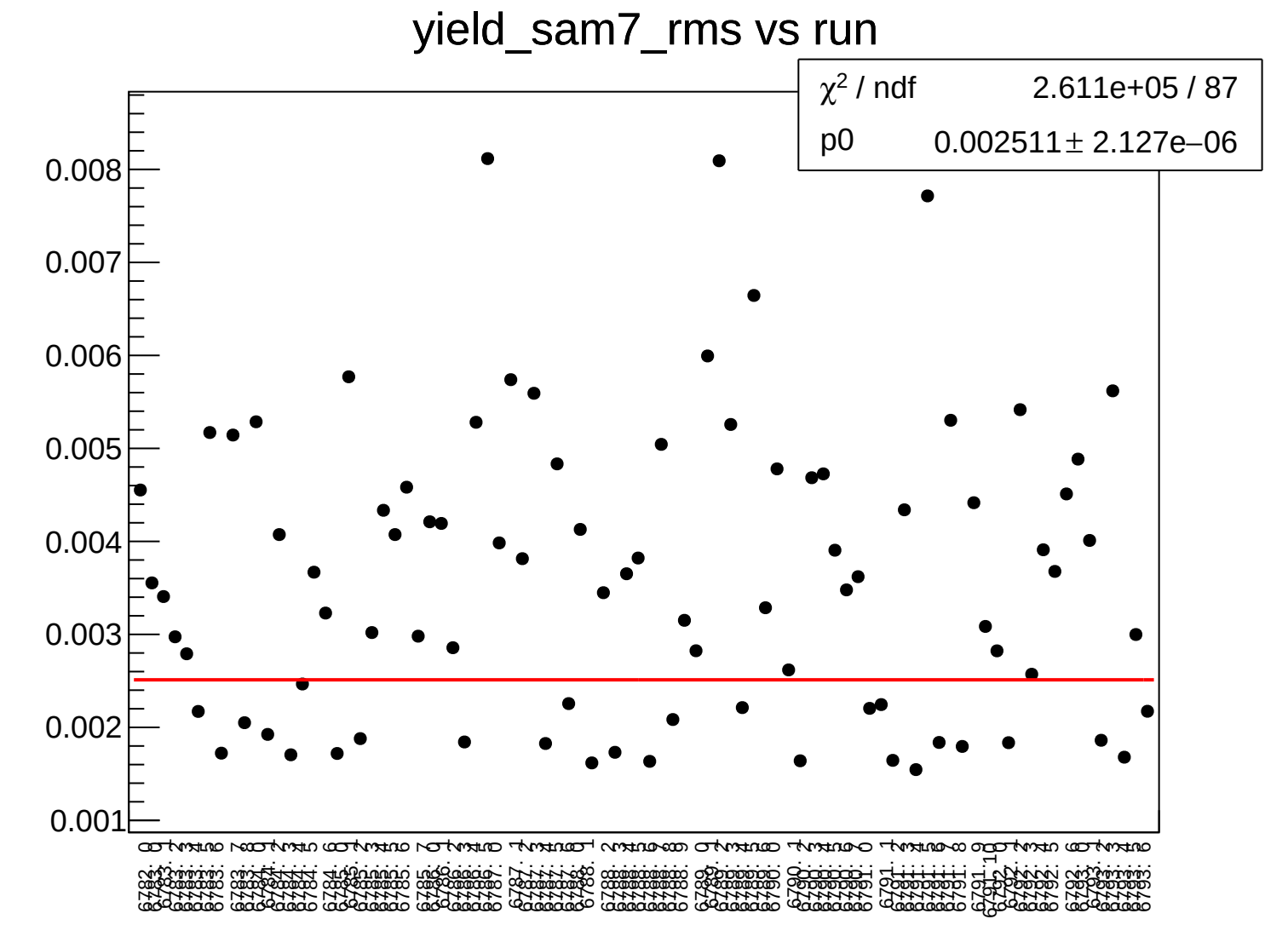

yield_sam6_mean vs run
χ² / ndf 2.262e+06 / 87
p0 9.551± 3.132e−05
9.66
9.64
9.62
9.6
9.58
9.56
9.54
9.52
9.5
9.48
9.46
pull
Entries 88
Mean 2455
Std Dev 0
400
300
200
100
0
−100
−200
−300

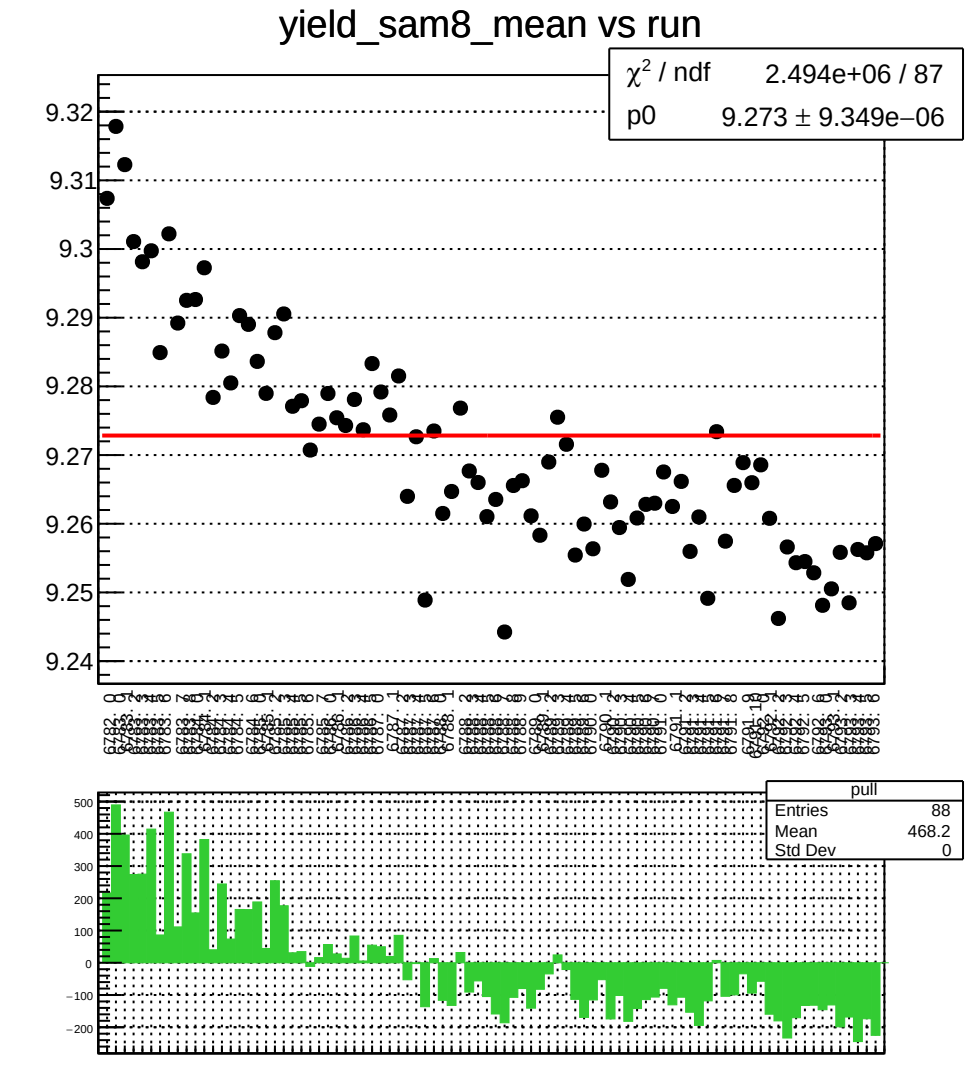

pull1D
Entries 88
Mean −1.992
Std Dev 4.013
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

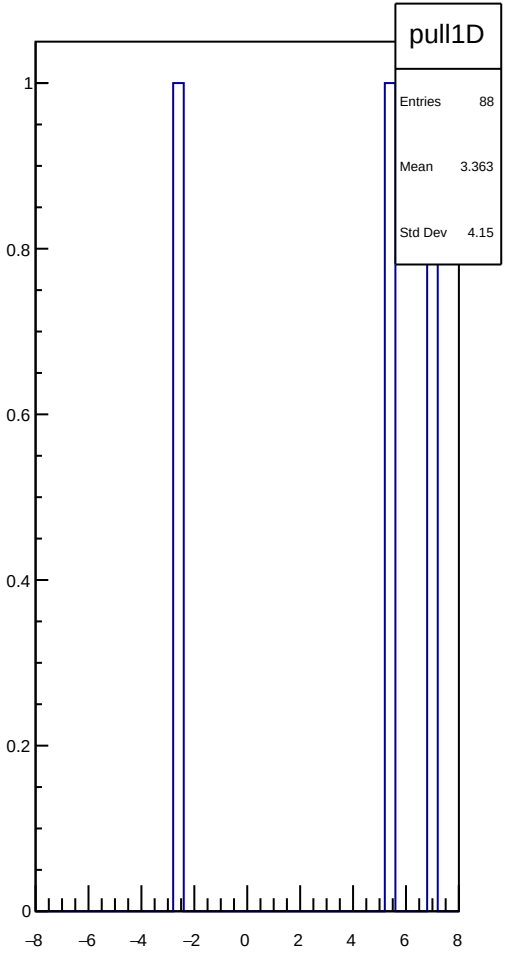

yield_sam6_rms vs run
χ² / ndf 7.447e+04 / 87
p0 0.02784 ± 2.215e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

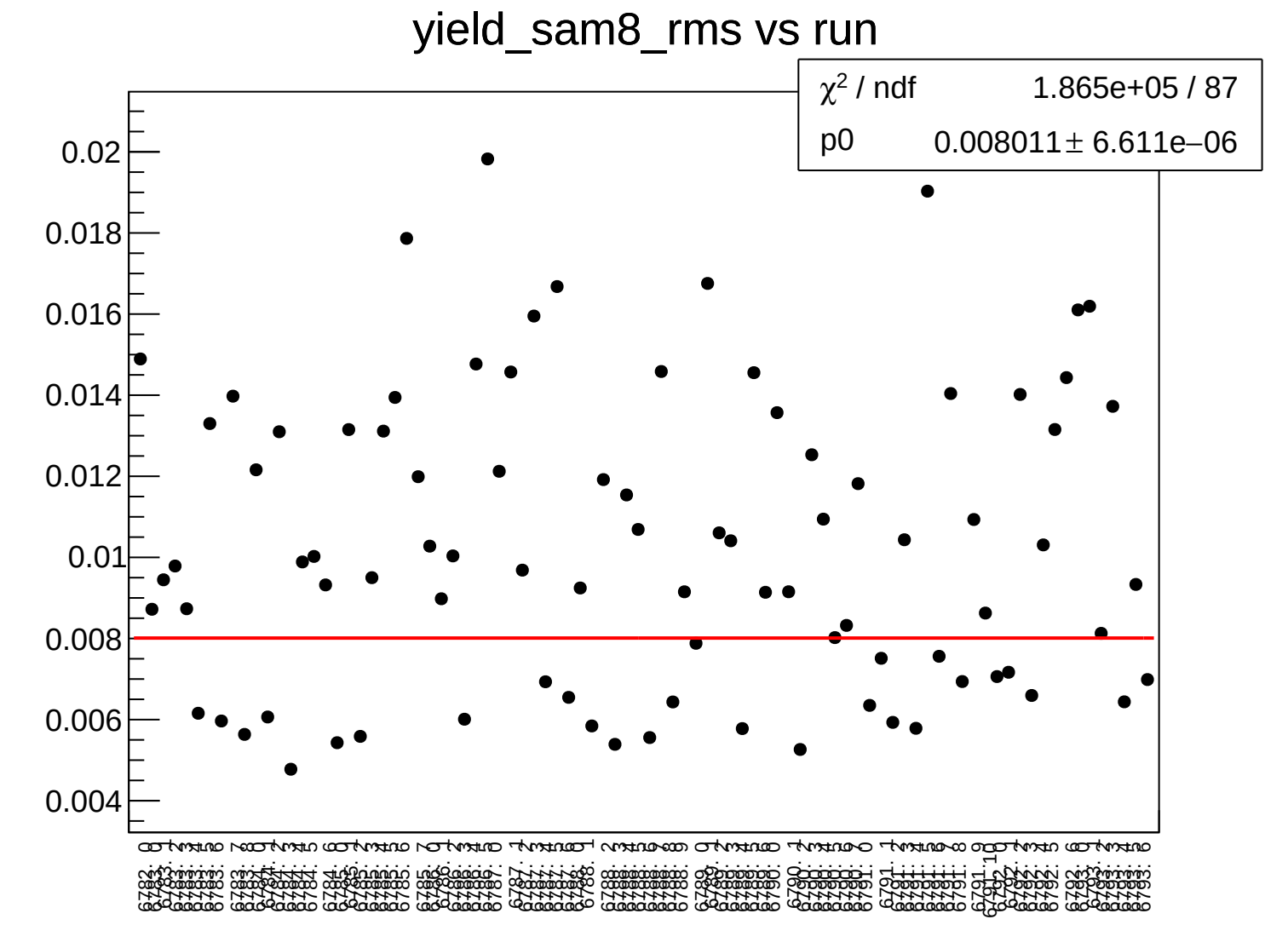

yield_sam7_mean vs run
χ² / ndf 4.763e+06 / 87
p0 2.645 ± 3.008e−06
2.665
2.66
2.655
2.65
2.645
2.64
2.635
2.63
pull
Entries 88
Mean 1348
Std Dev 0
800
600
400
200
0
−200
−400

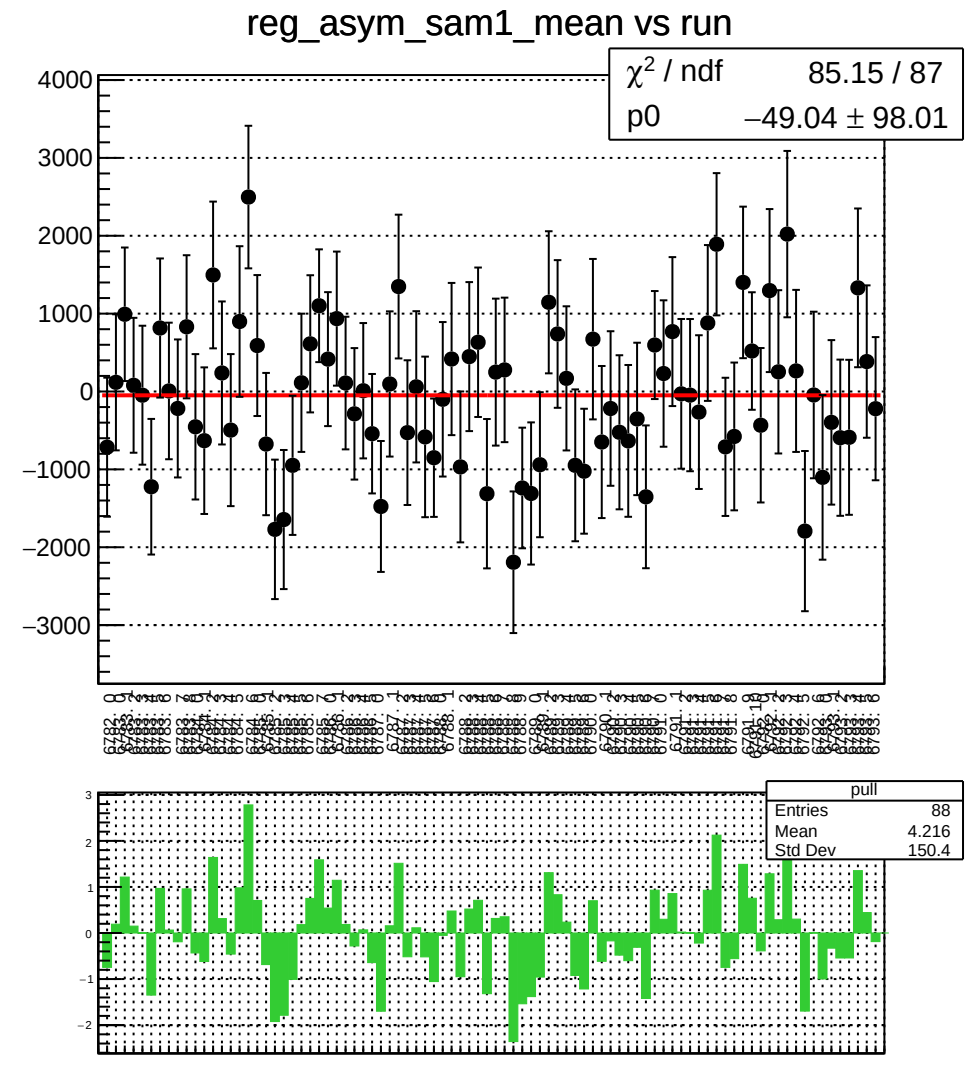

pull1D
Entries 88
Mean 2.867
Std Dev 4.33
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

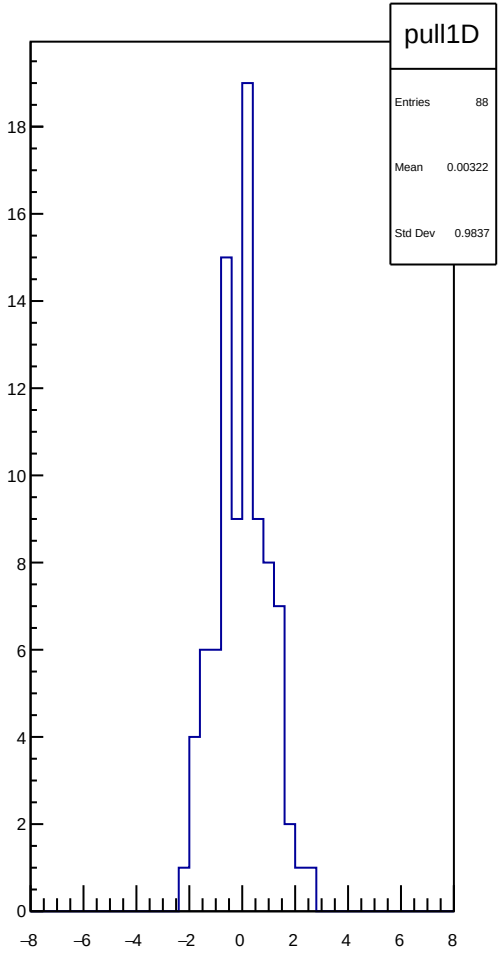

yield_sam7_rms vs run
χ² / ndf 2.611e+05 / 87
p0 0.002511 ± 2.127e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

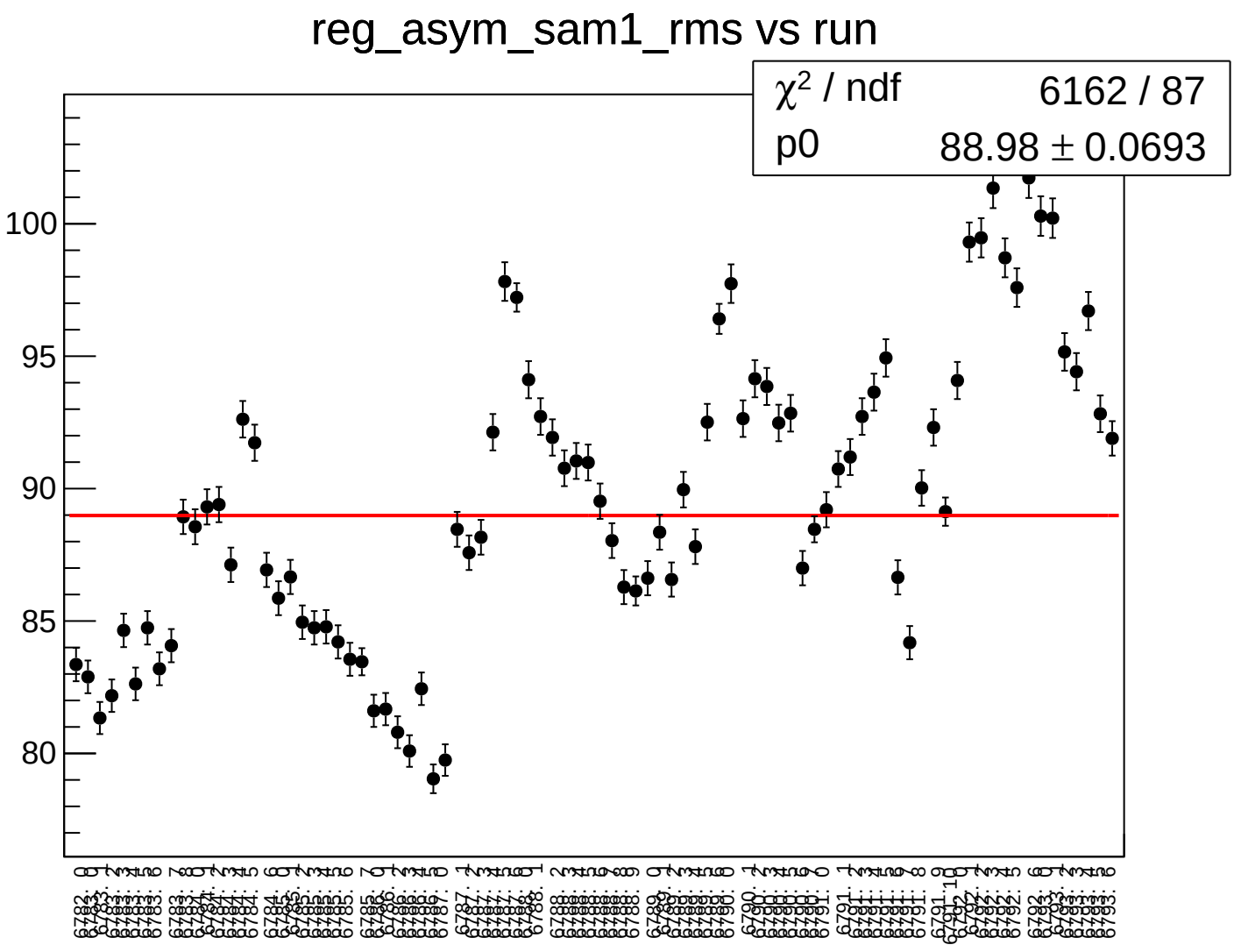

yield_sam8_mean vs run
χ² / ndf 2.494e+06 / 87
p0 9.273 ± 9.349e−06
9.32
9.31
9.3
9.29
9.28
9.27
9.26
9.25
9.24
pull
Entries 88
Mean 468.2
Std Dev 0
500
400
300
200
100
0
−100
−200

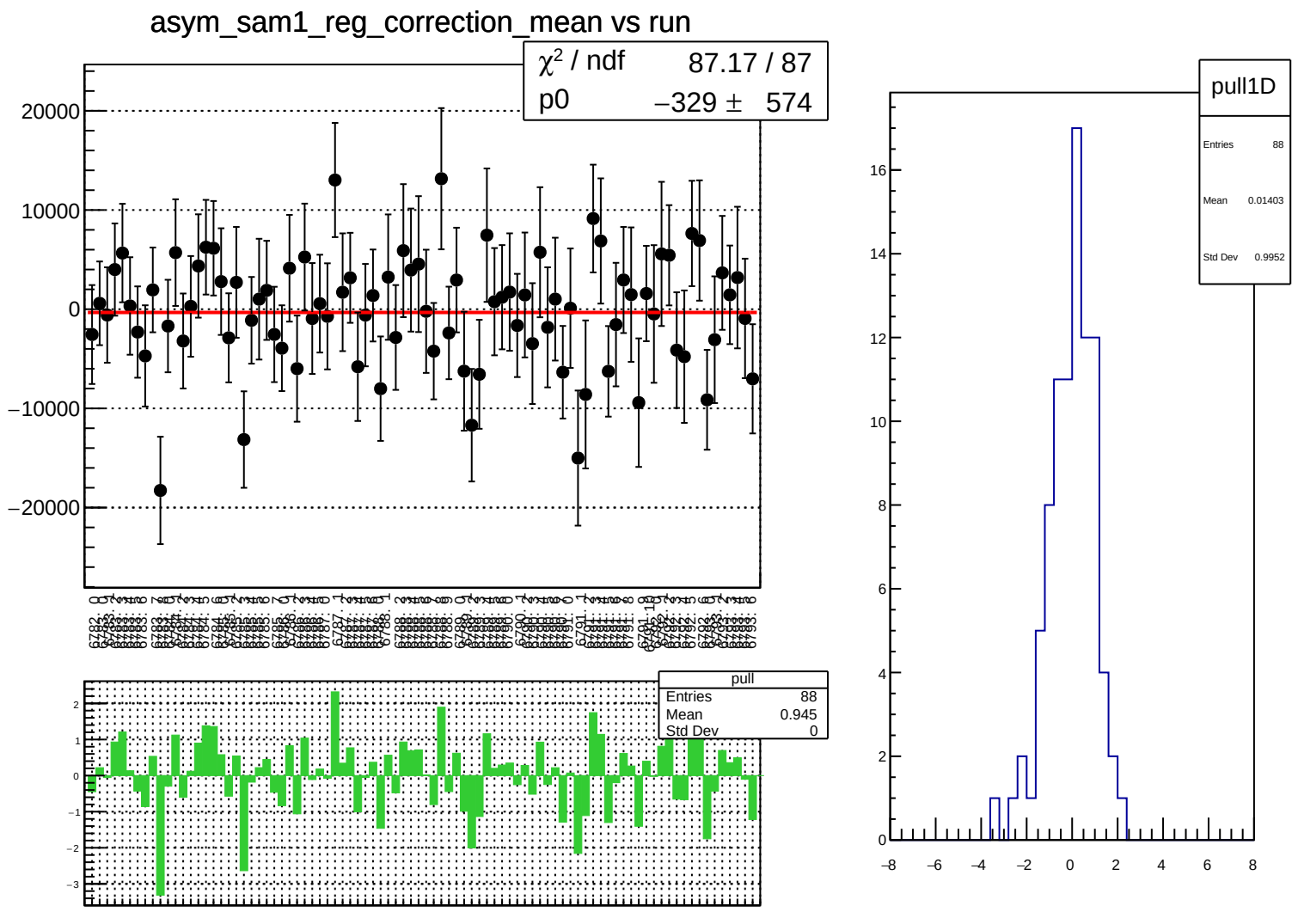

pull1D
Entries 88
Mean 3.363
Std Dev 4.15
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

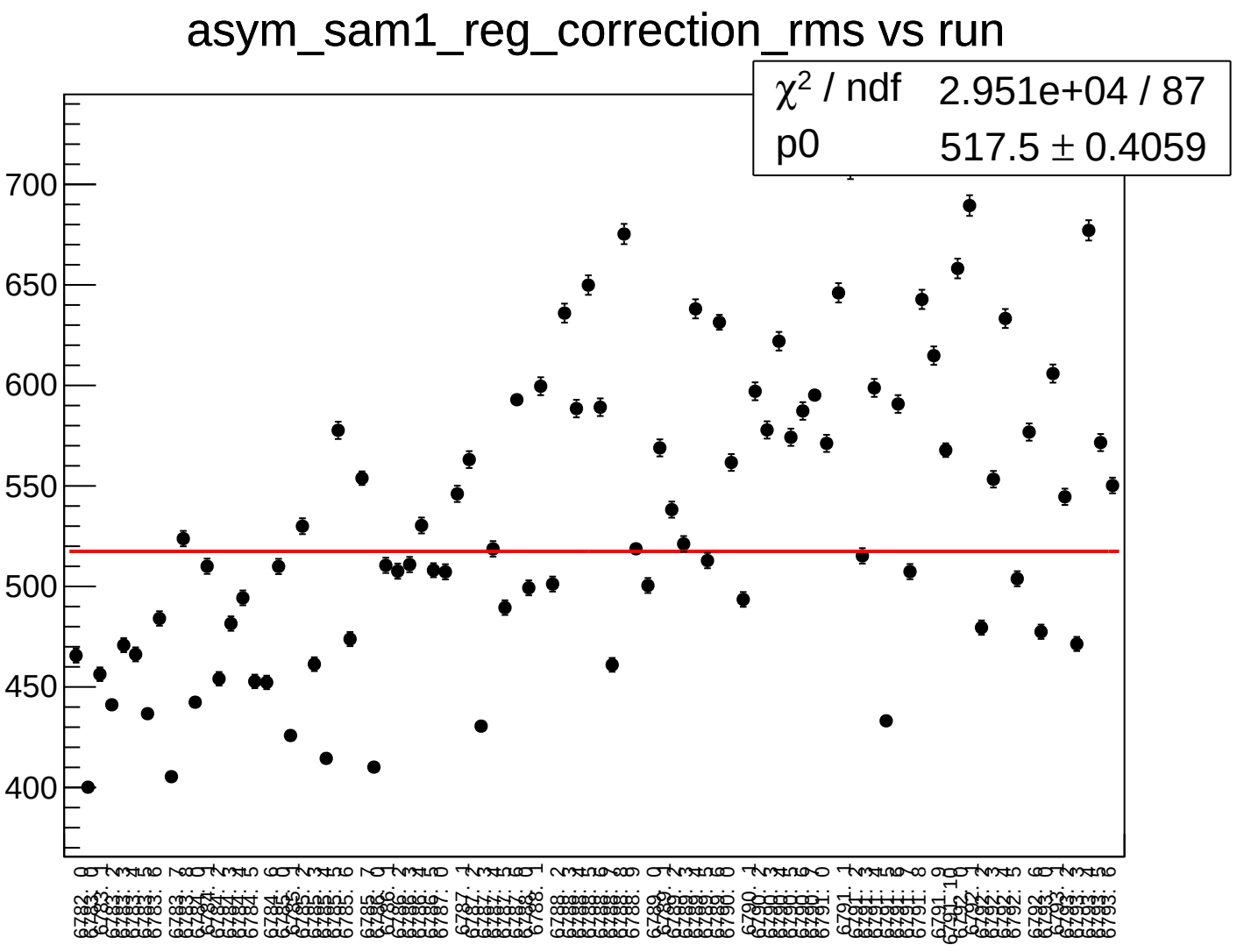

yield_sam8_rms vs run
χ^2 / ndf 1.865e+05 / 87
p0 0.008011 ± 6.611e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

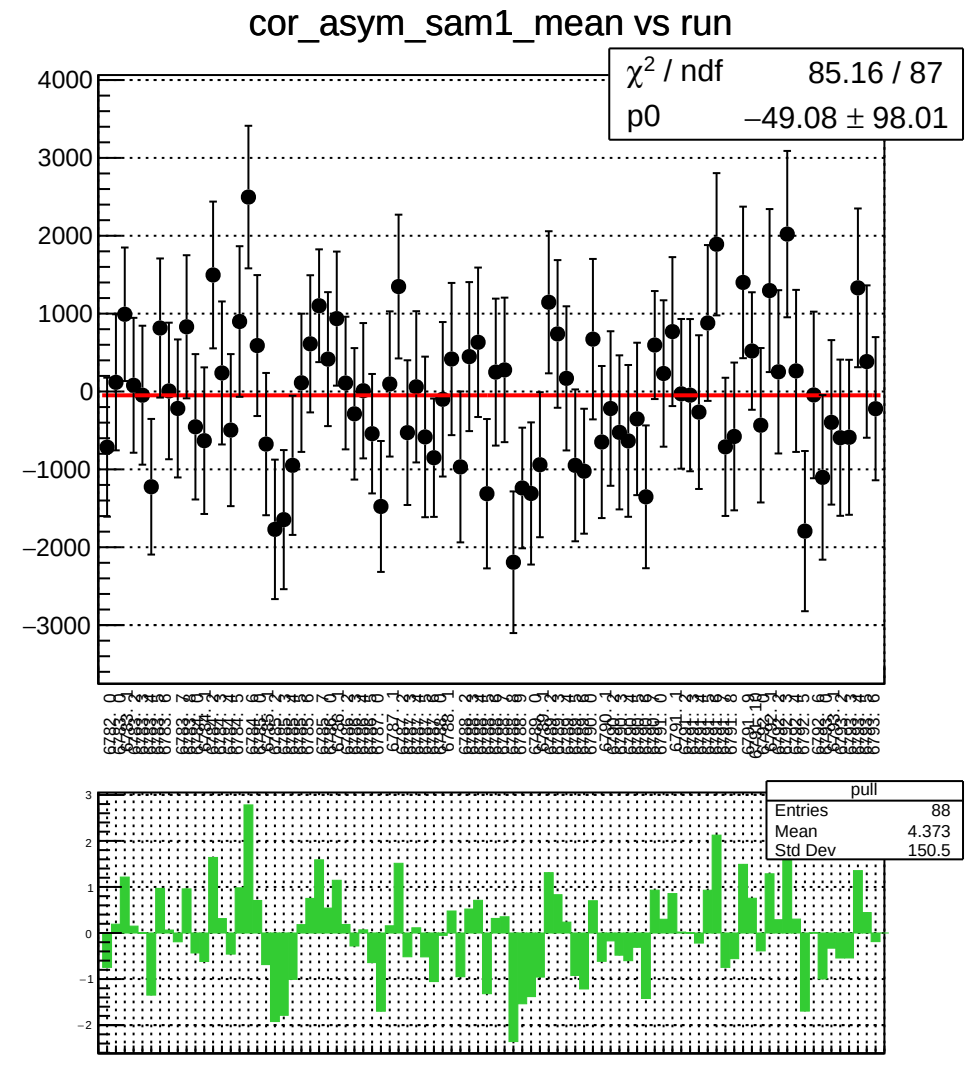

reg_asym_sam1_mean vs run
χ² / ndf 85.15 / 87
p0 −49.04 ± 98.01
pull
Entries 88
Mean 4.216
Std Dev 150.4

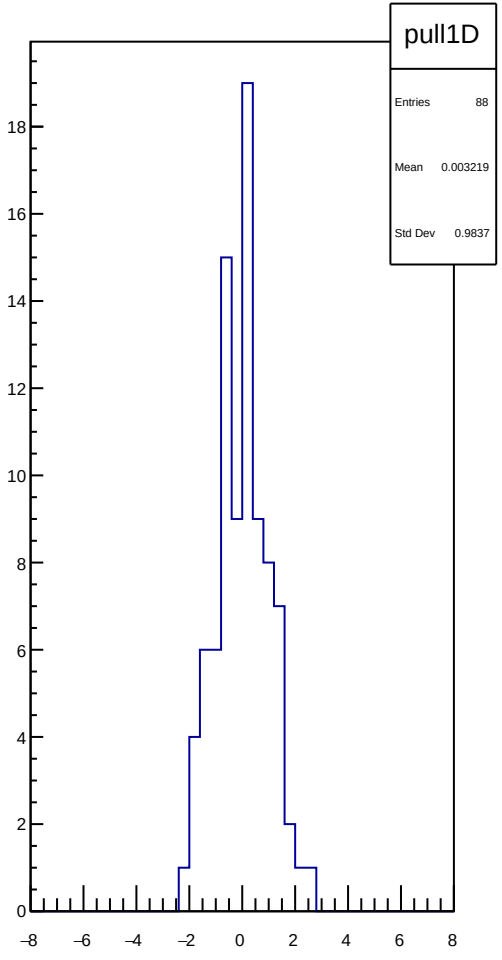

pull1D
Entries 88
Mean 0.00322
Std Dev 0.9837

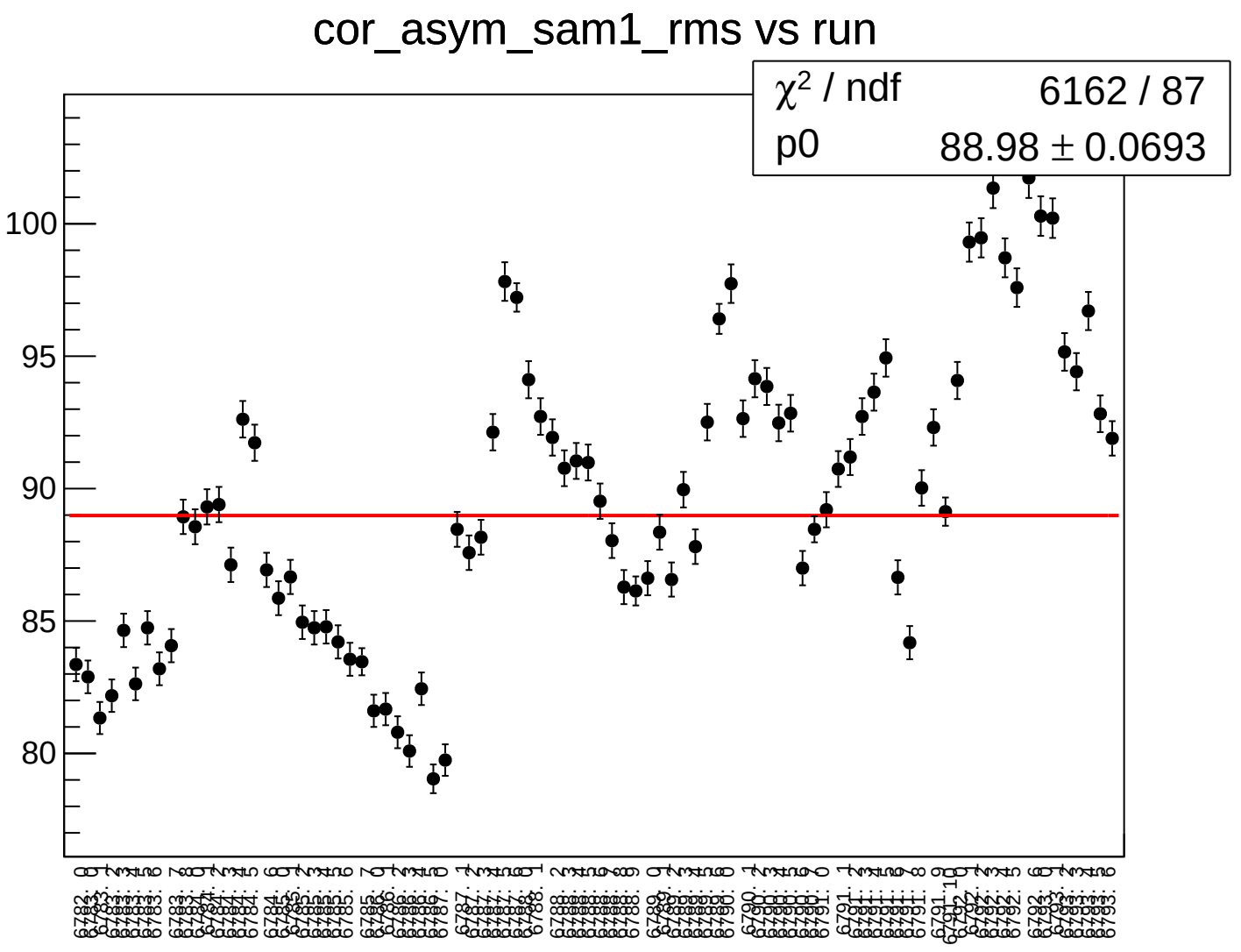

reg_asym_sam1_rms vs run
χ² / ndf 6162 / 87
p0 88.98 ± 0.0693
100
95
90
85
80

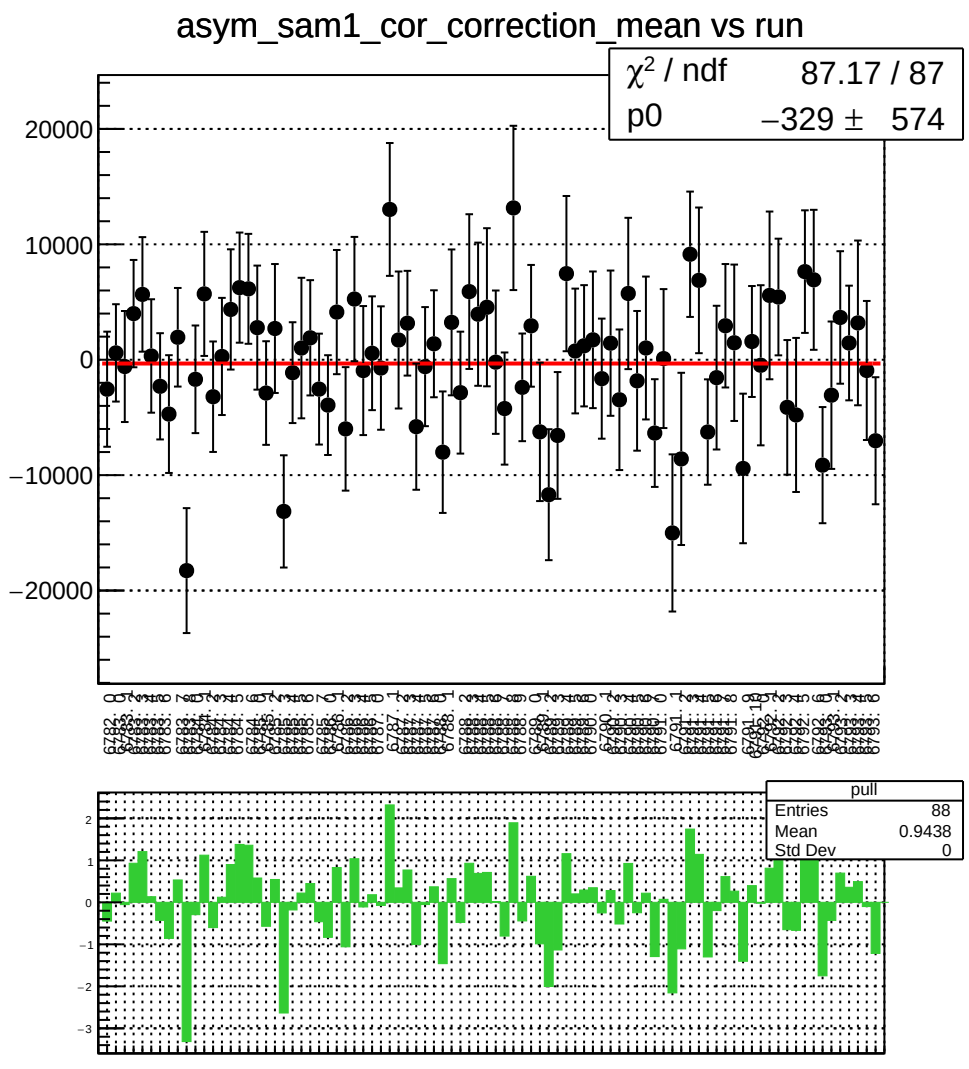

asym_sam1_reg_correction_mean vs run
χ² / ndf 87.17 / 87
p0 −329 ± 574
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 0.945
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01403
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

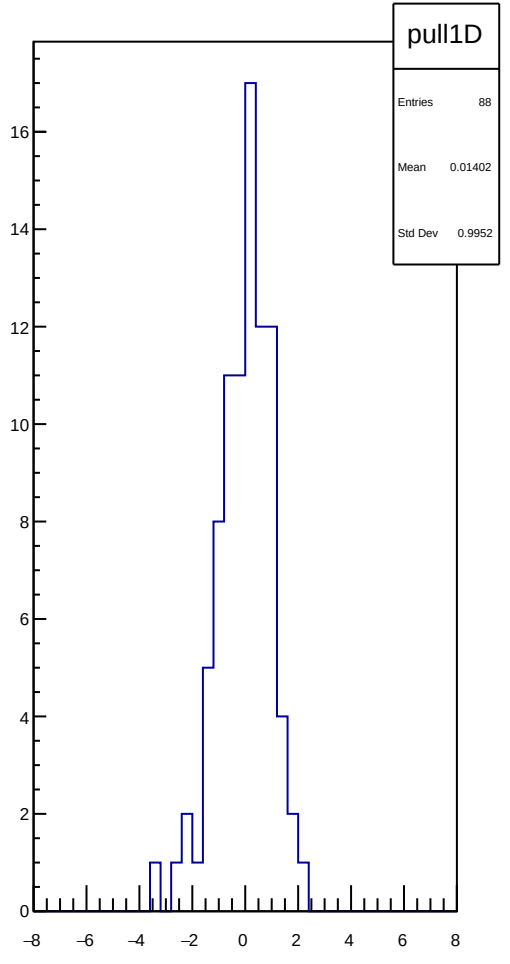

asym_sam1_reg_correction_rms vs run
χ² / ndf 2.951e+04 / 87
p0 517.5 ± 0.4059
700
650
600
550
500
450
400

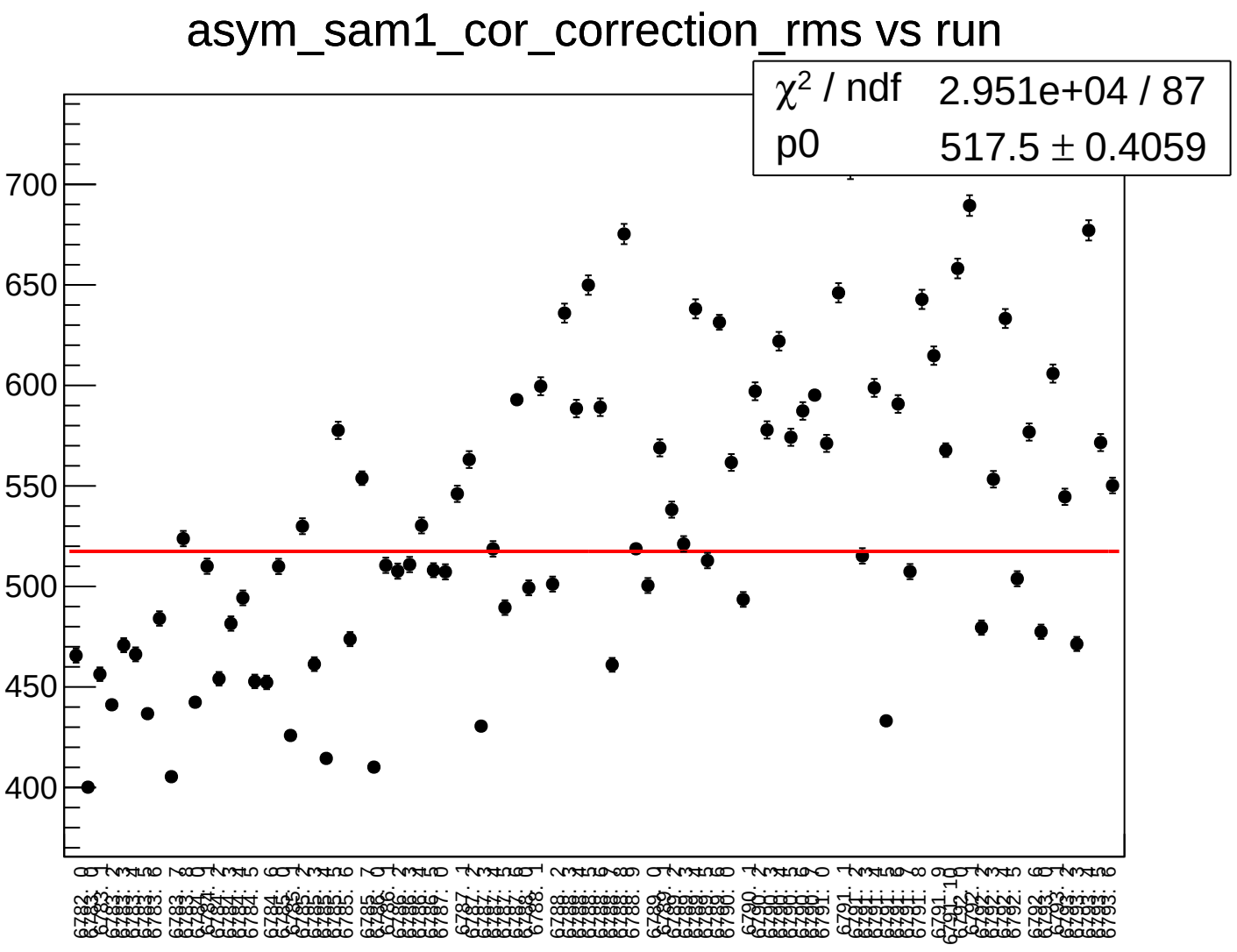

cor_asym_sam1_mean vs run
χ² / ndf 85.16 / 87
p0 −49.08 ± 98.01
pull
Entries 88
Mean 4.373
Std Dev 150.5

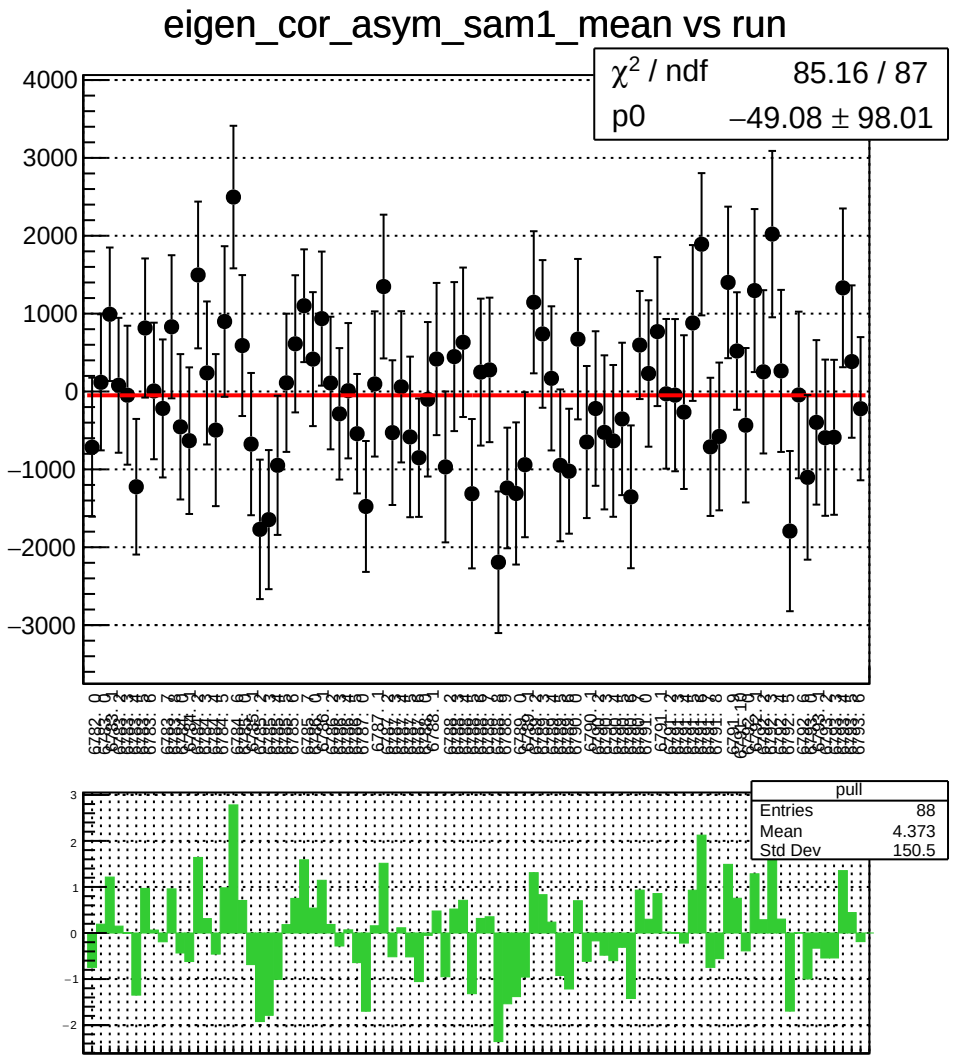

pull1D
Entries 88
Mean 0.003219
Std Dev 0.9837

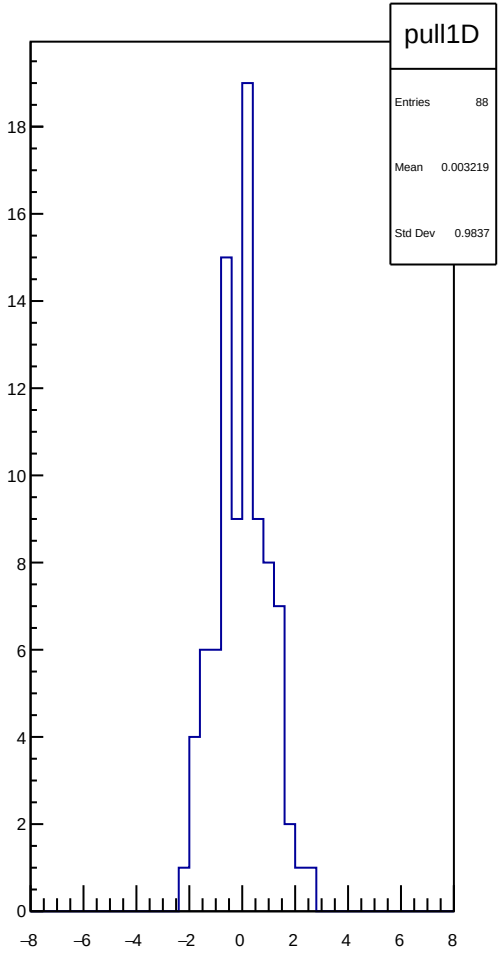

cor_asym_sam1_rms vs run
χ² / ndf 6162 / 87
p0 88.98 ± 0.0693
100
95
90
85
80

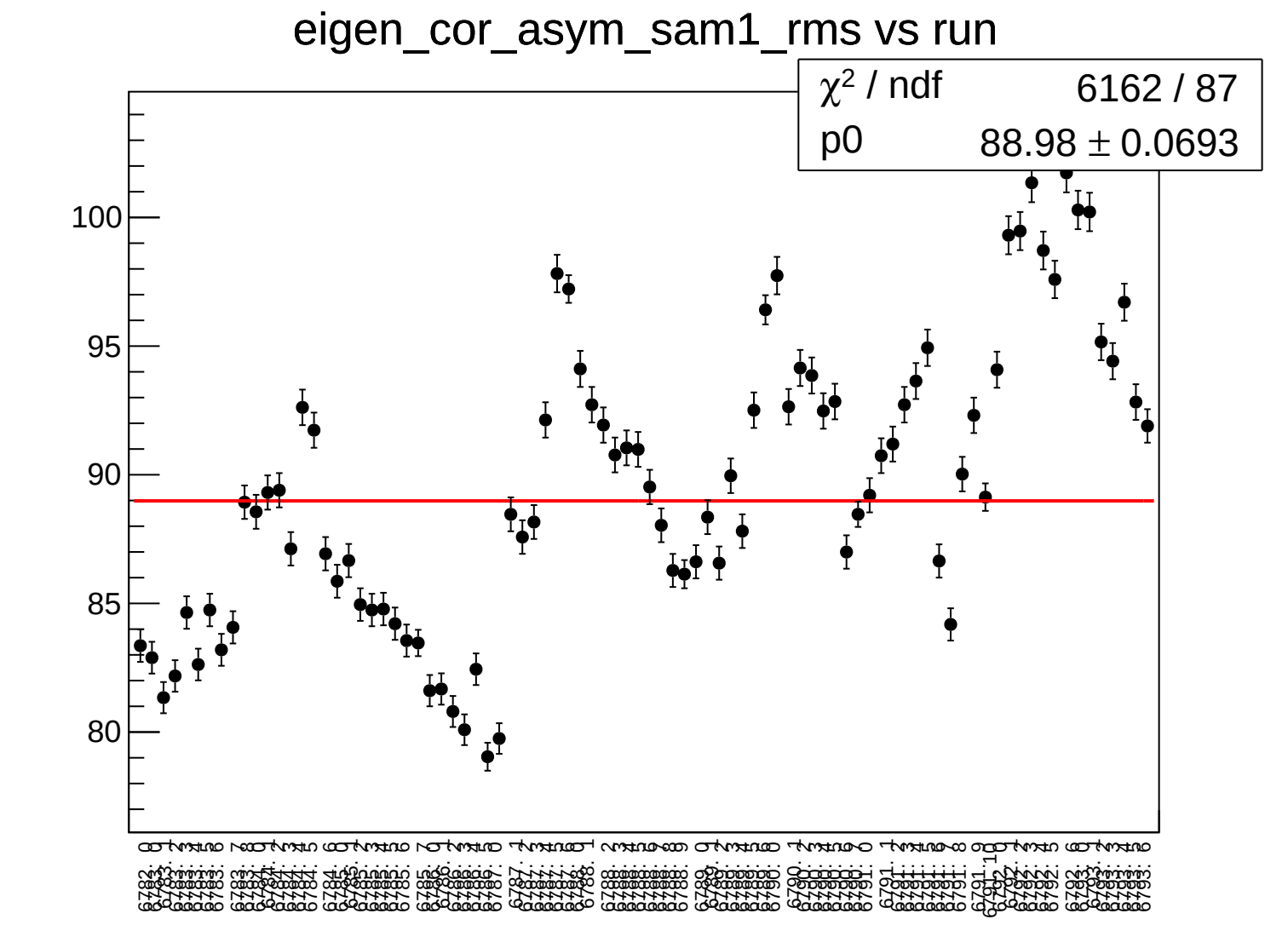

asym_sam1_cor_correction_mean vs run
χ² / ndf 87.17 / 87
p0 −329 ± 574
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 0.9438
Std Dev 0
2
1
0
−1
−2
−3

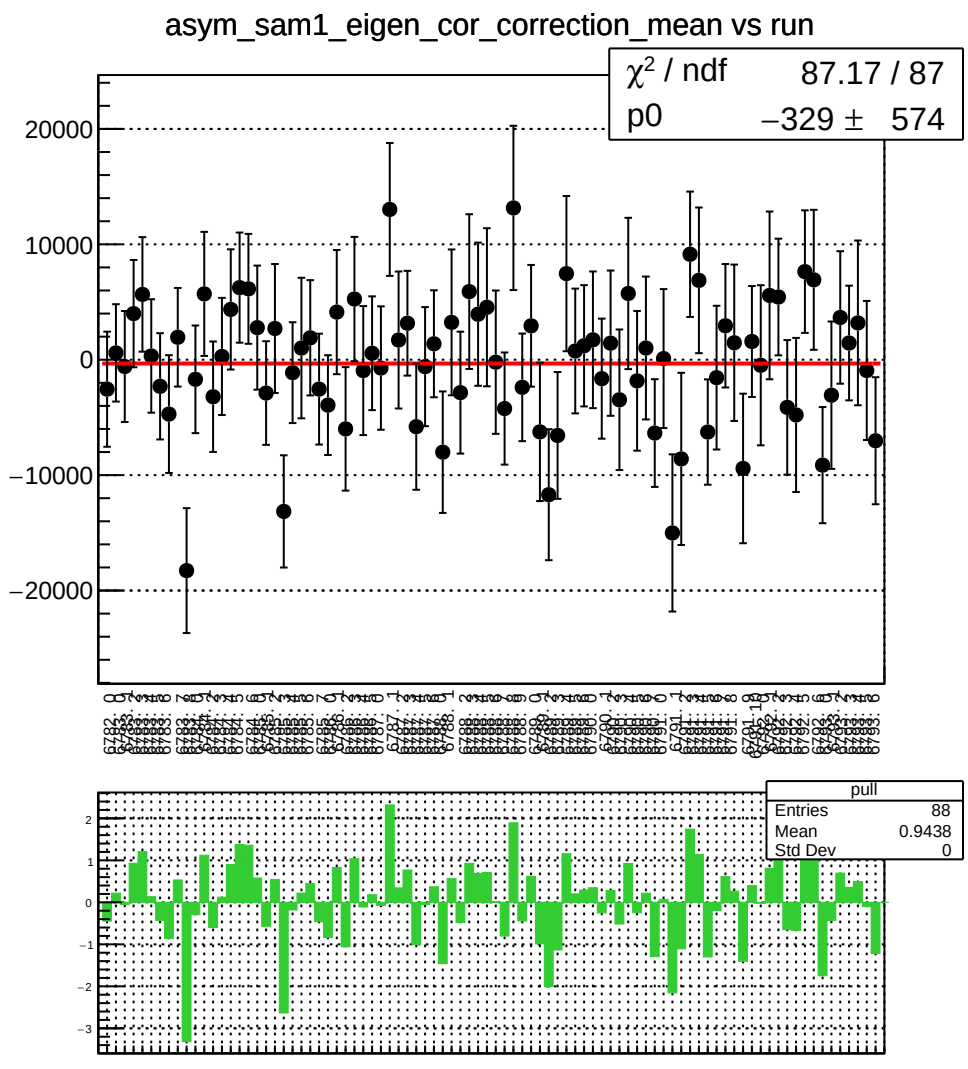

pull1D
Entries 88
Mean 0.01402
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

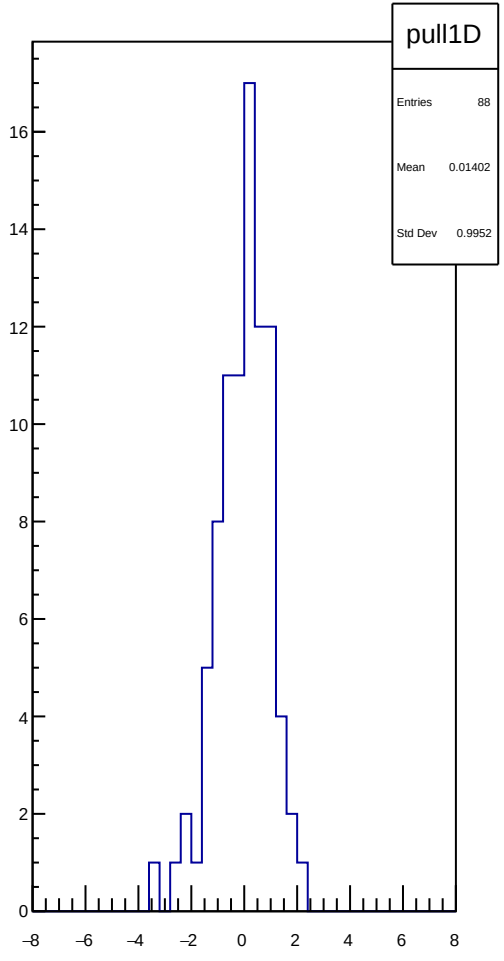

asym_sam1_cor_correction_rms vs run
χ² / ndf 2.951e+04 / 87
p0 517.5 ± 0.4059
700
650
600
550
500
450
400

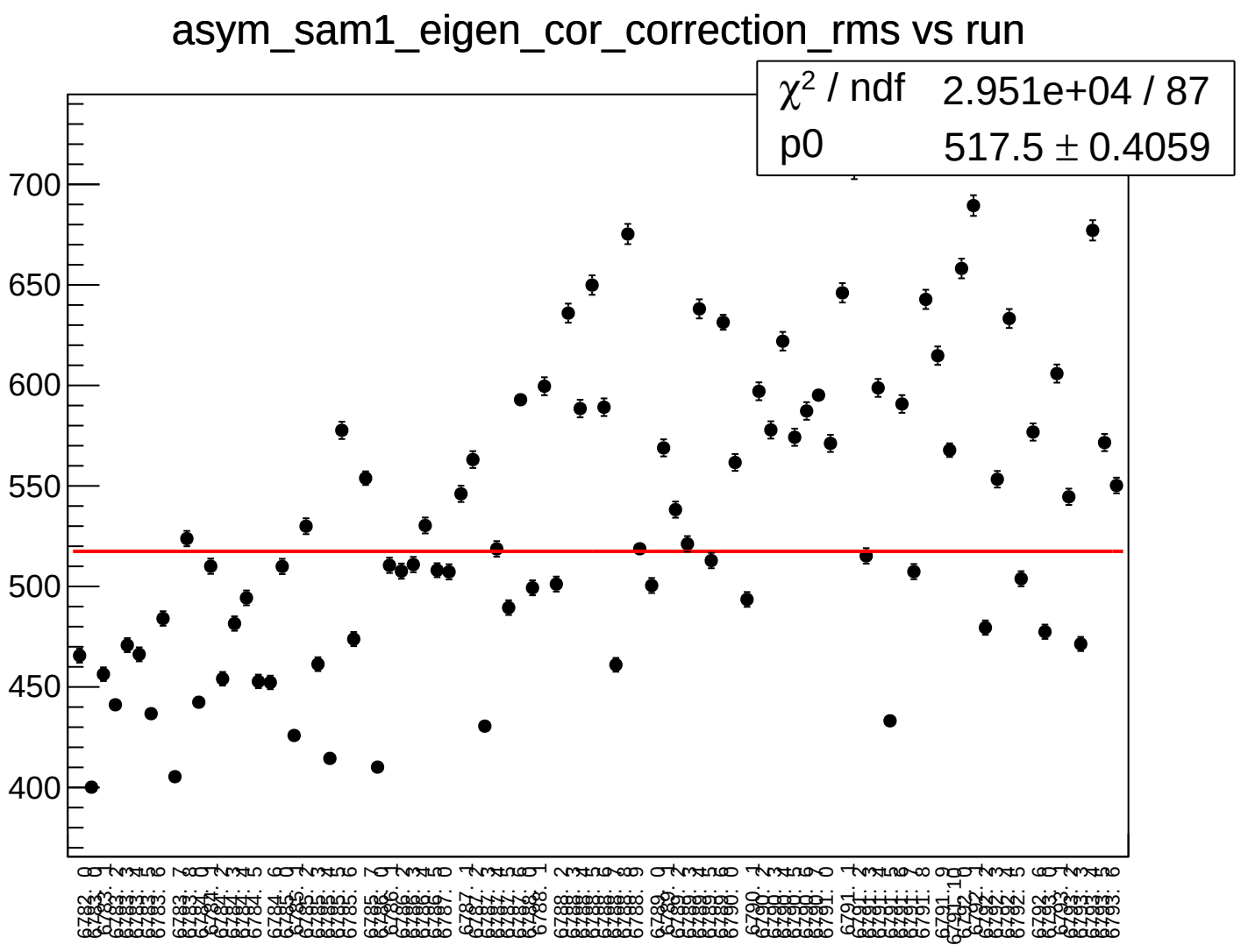

eigen_cor_asym_sam1_mean vs run
χ² / ndf 85.16 / 87
p0 −49.08 ± 98.01
pull
Entries 88
Mean 4.373
Std Dev 150.5

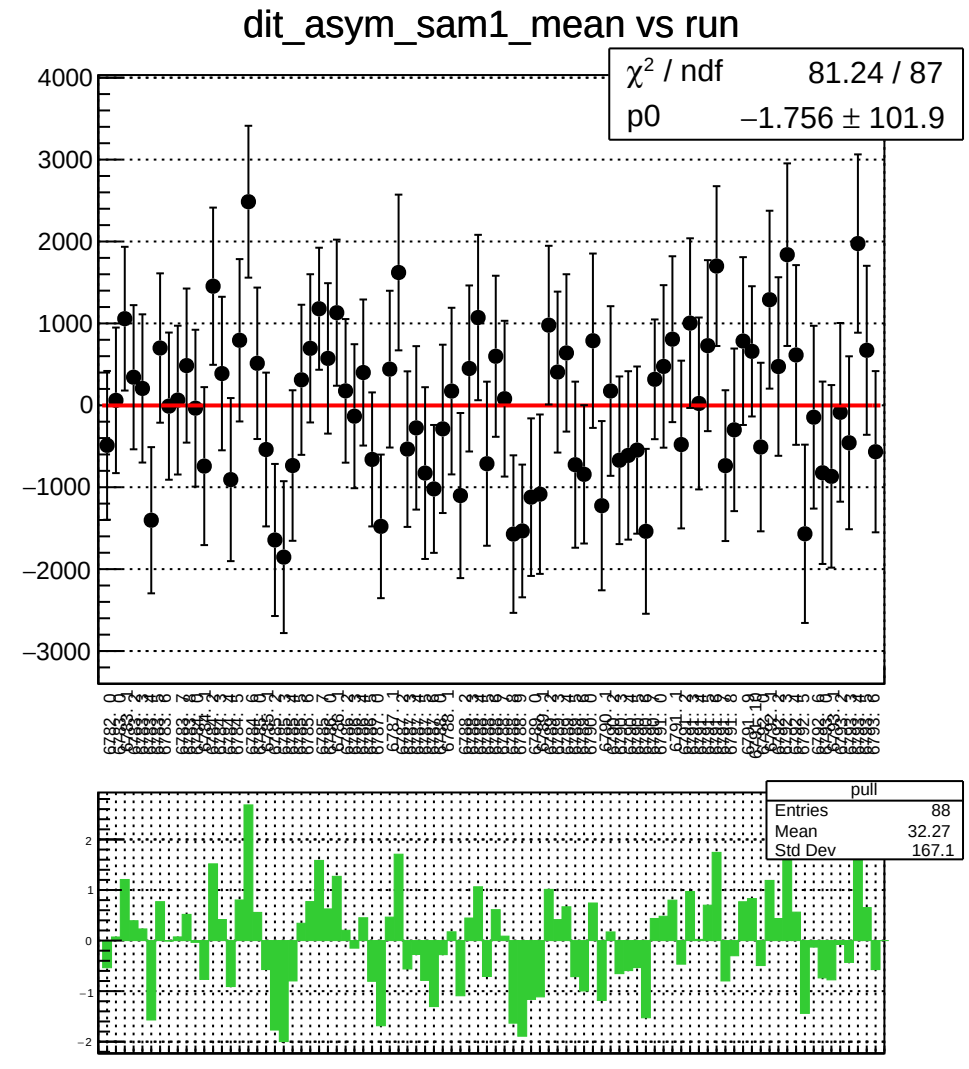

pull1D
Entries 88
Mean 0.003219
Std Dev 0.9837

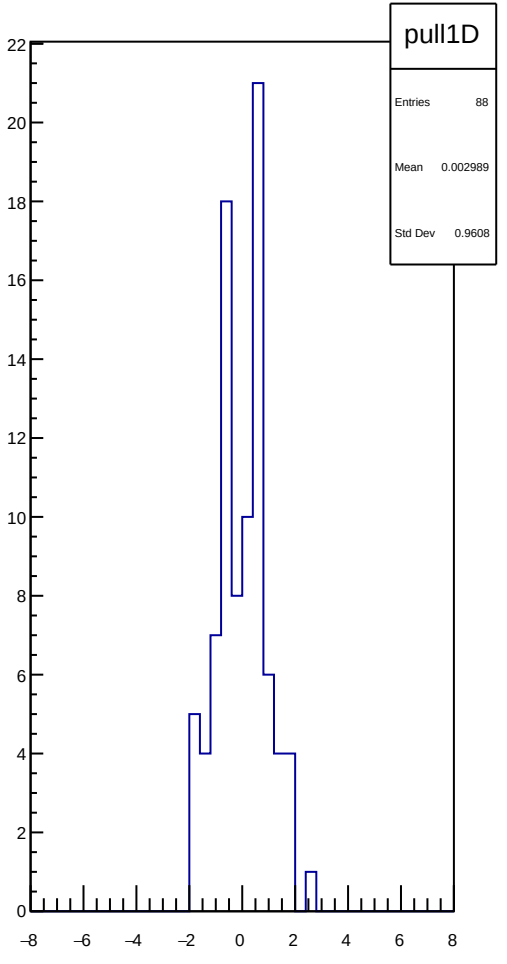

eigen_cor_asym_sam1_rms vs run
χ² / ndf 6162 / 87
p0 88.98 ± 0.0693
100
95
90
85
80

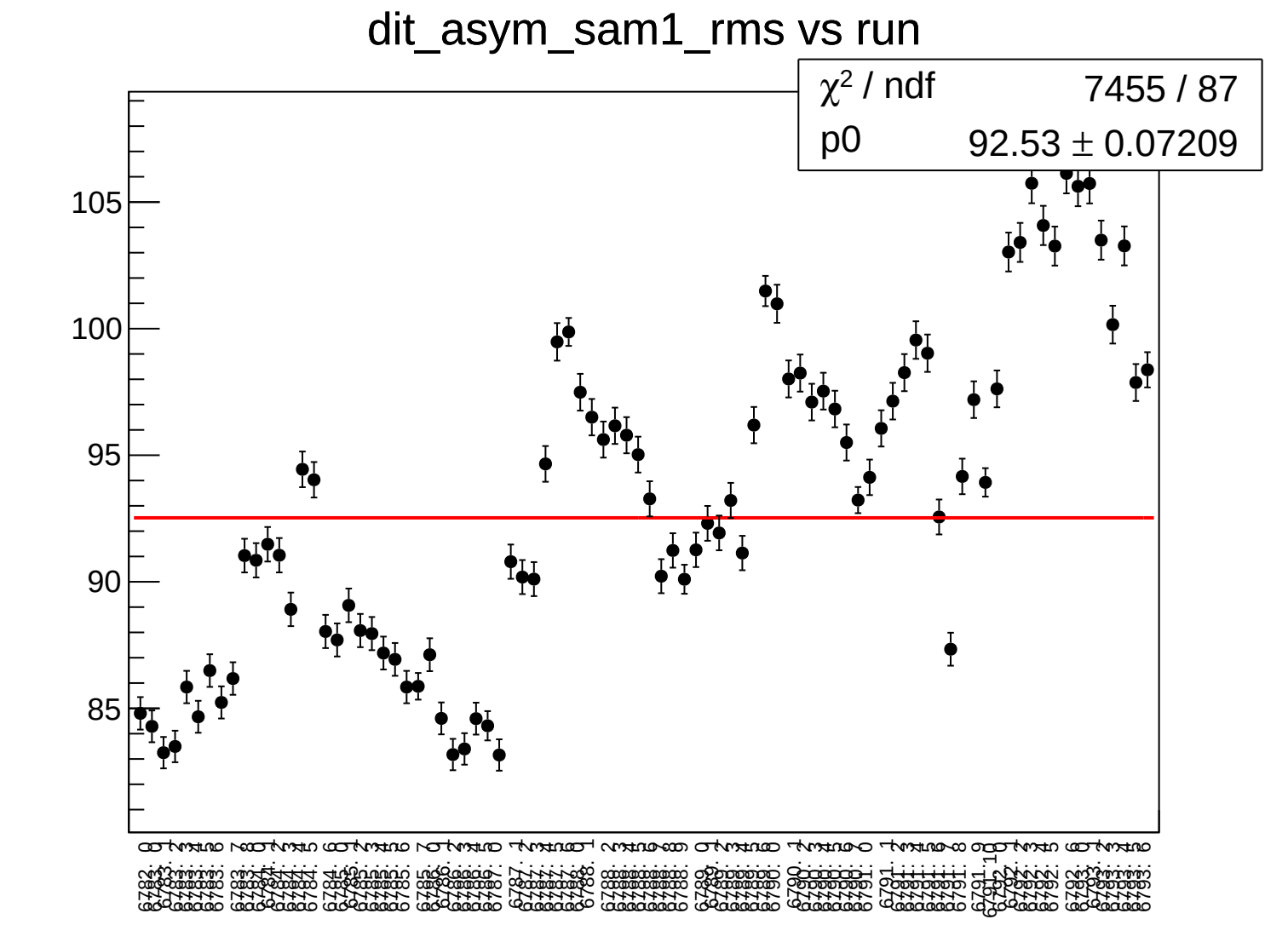

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 87.17 / 87
p0 −329 ± 574
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 0.9438
Std Dev 0
2
1
0
−1
−2
−3

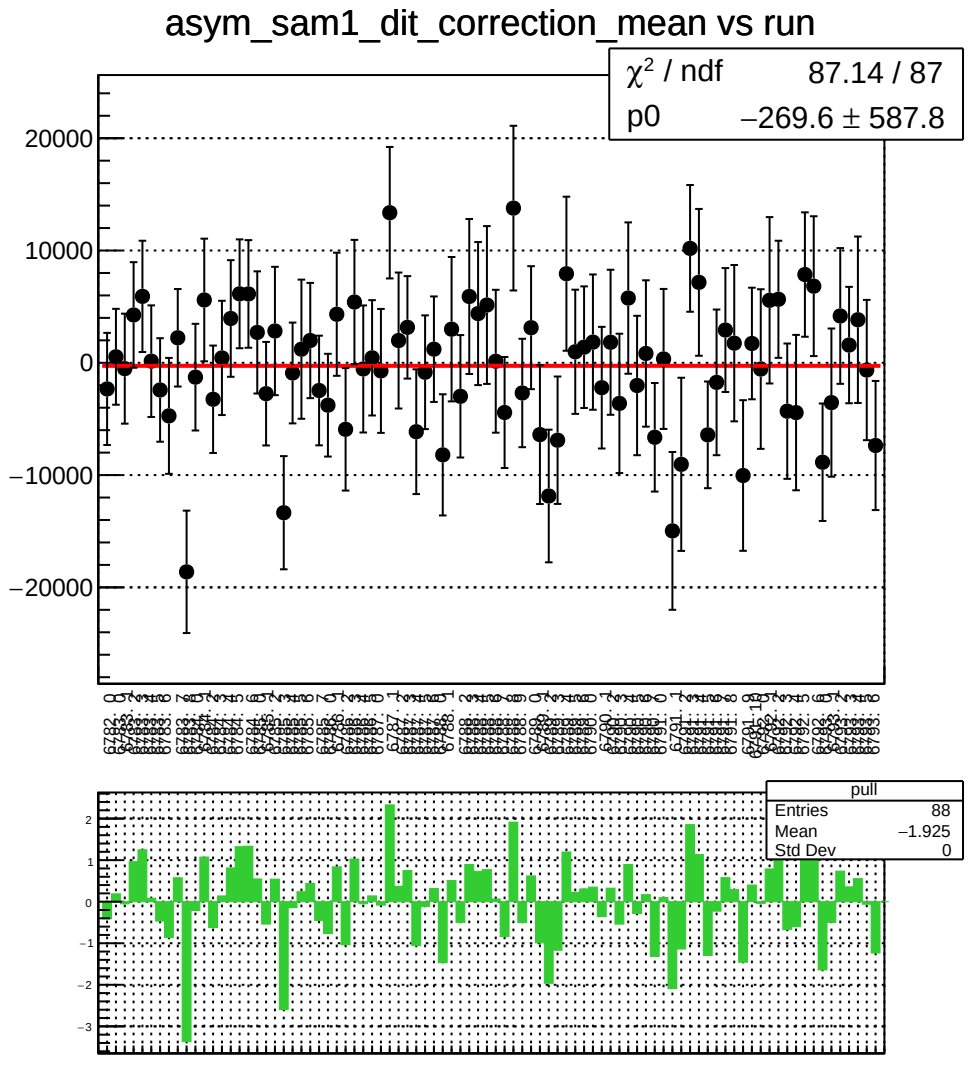

pull1D
Entries 88
Mean 0.01402
Std Dev 0.9952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

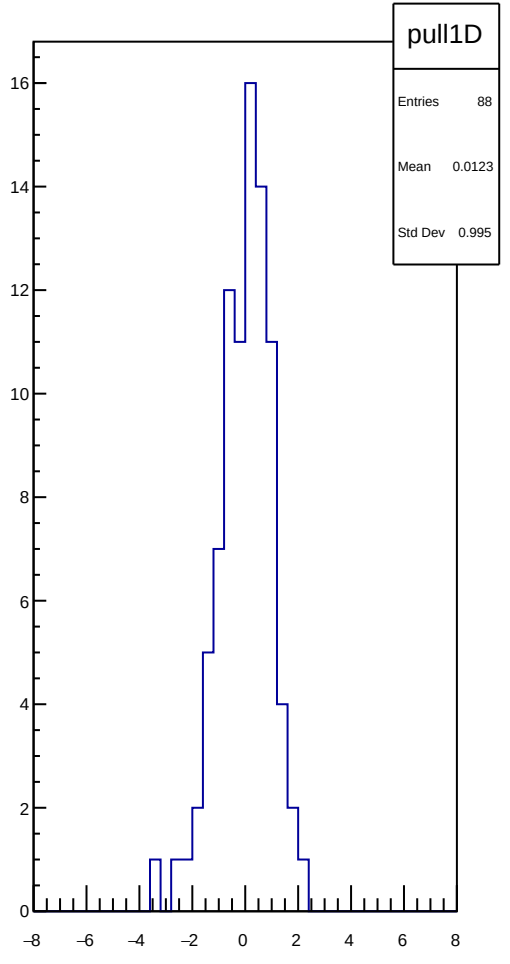

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2.951e+04 / 87
p0 517.5 ± 0.4059
700
650
600
550
500
450
400

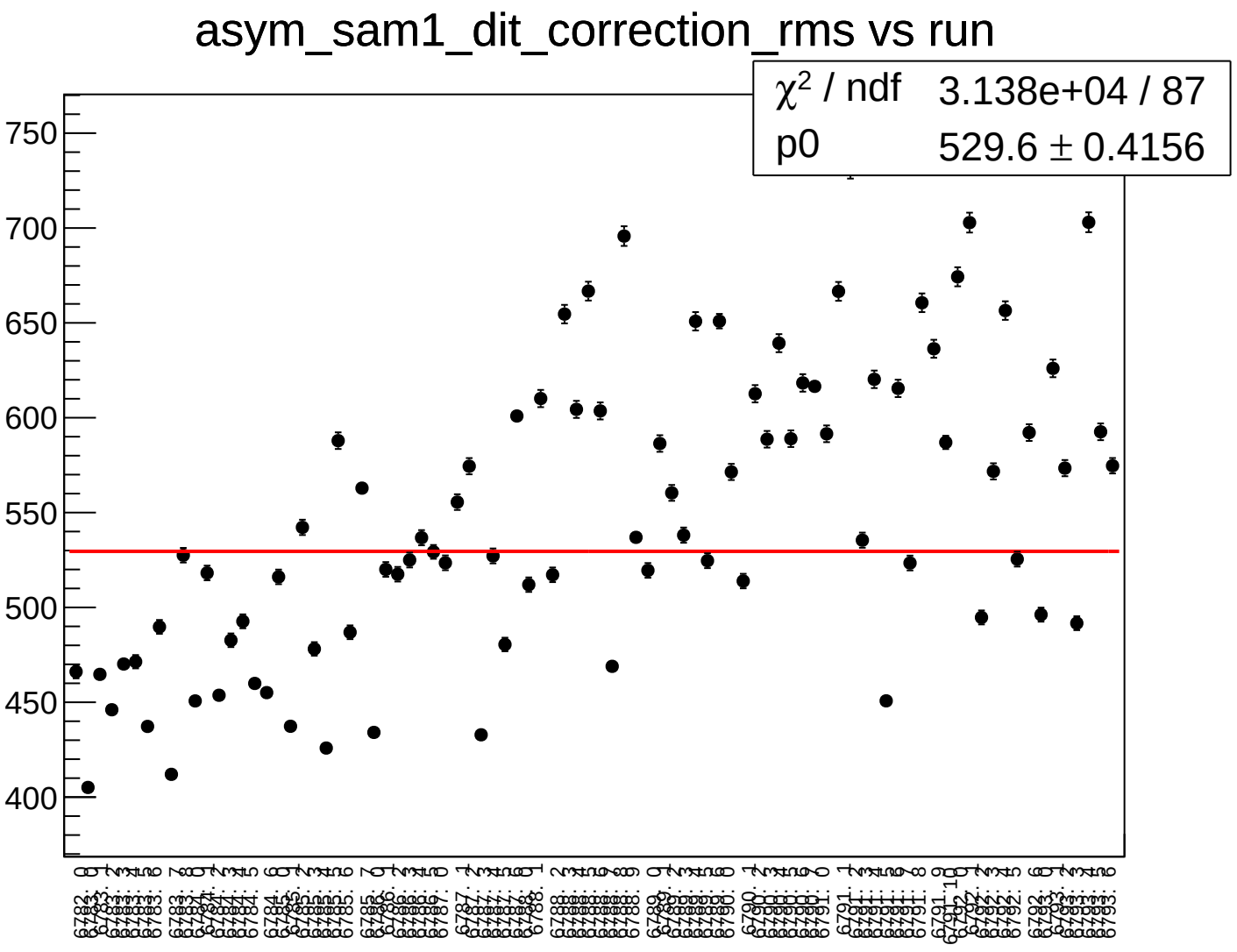

dit_asym_sam1_mean vs run
χ² / ndf 81.24 / 87
p0 −1.756 ± 101.9
pull
Entries 88
Mean 32.27
Std Dev 167.1

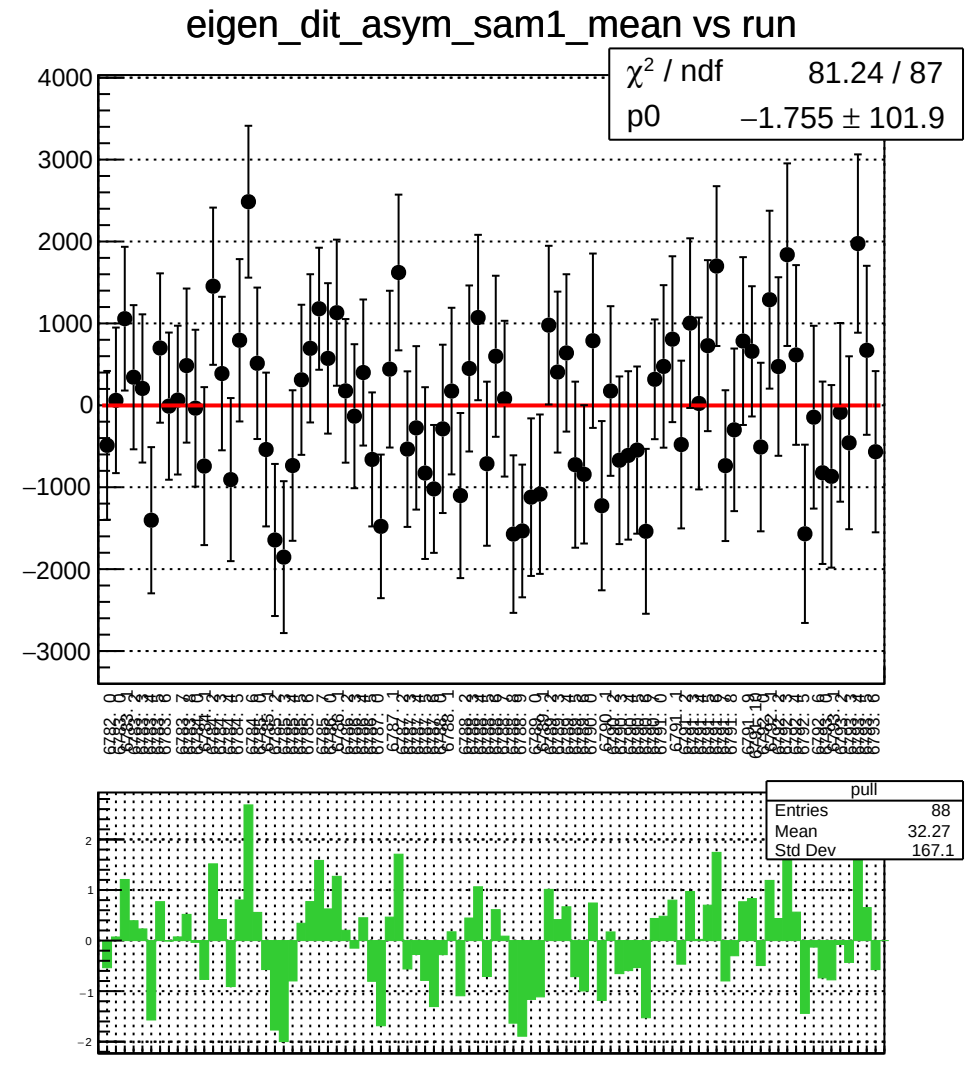

pull1D
Entries 88
Mean 0.002989
Std Dev 0.9608

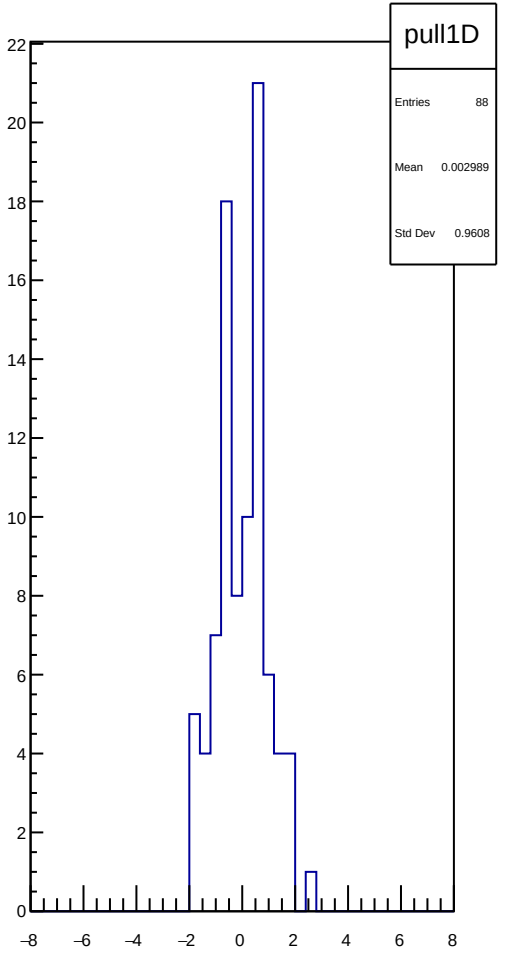

dit_asym_sam1_rms vs run
χ² / ndf 7455 / 87
p0 92.53 ± 0.07209
105
100
95
90
85

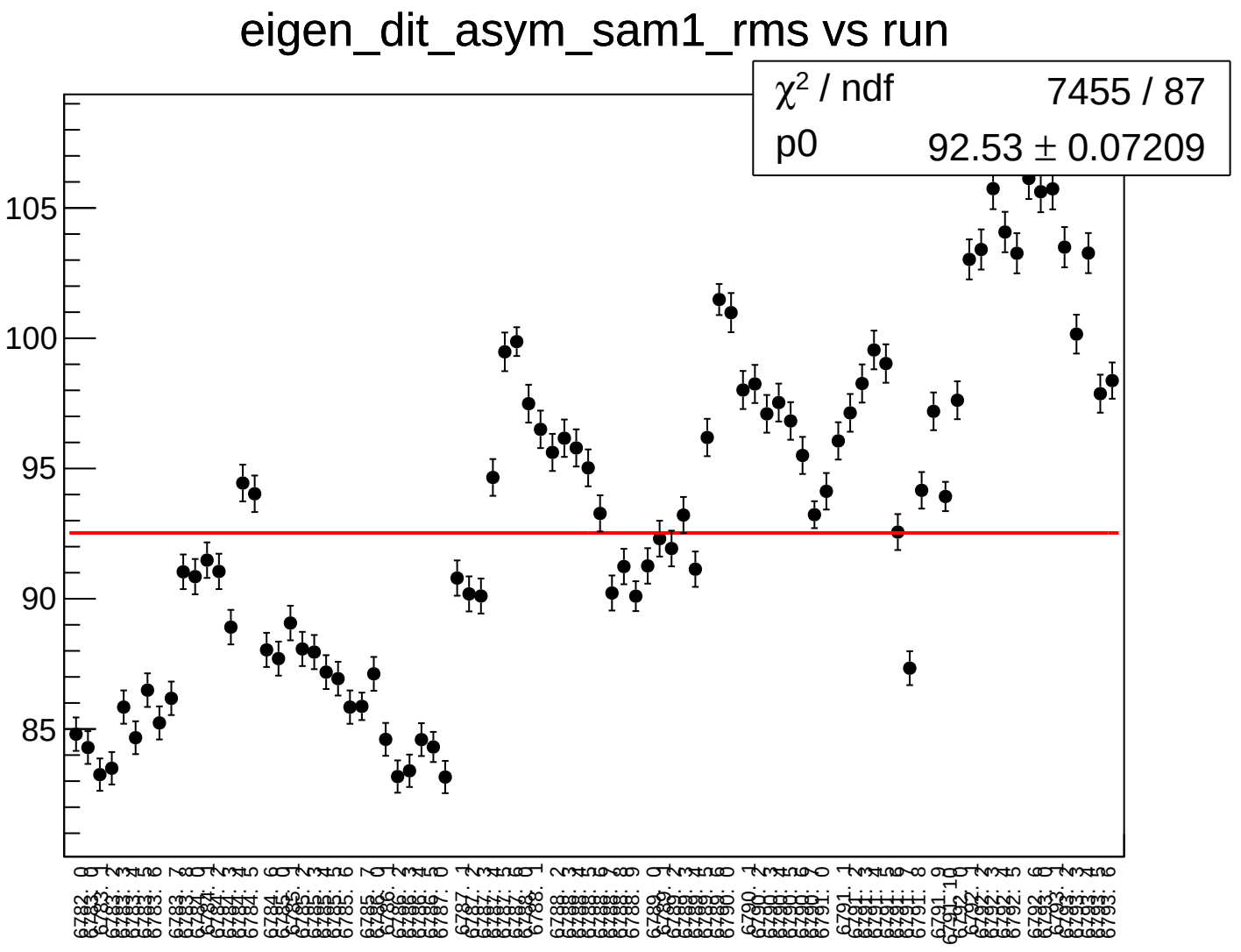

asym_sam1_dit_correction_mean vs run
χ² / ndf 87.14 / 87
p0 −269.6 ± 587.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −1.925
Std Dev 0
2
1
0
−1
−2
−3

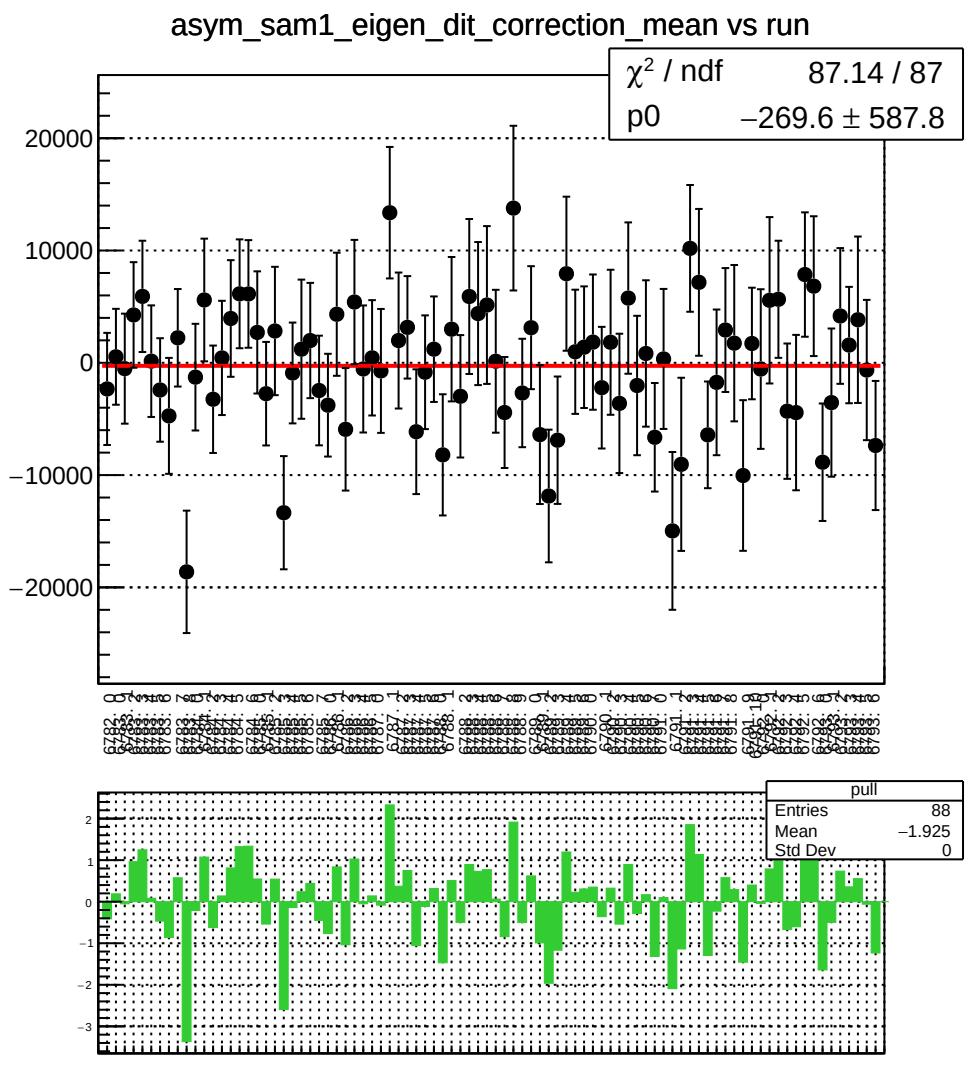

pull1D
Entries 88
Mean 0.0123
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

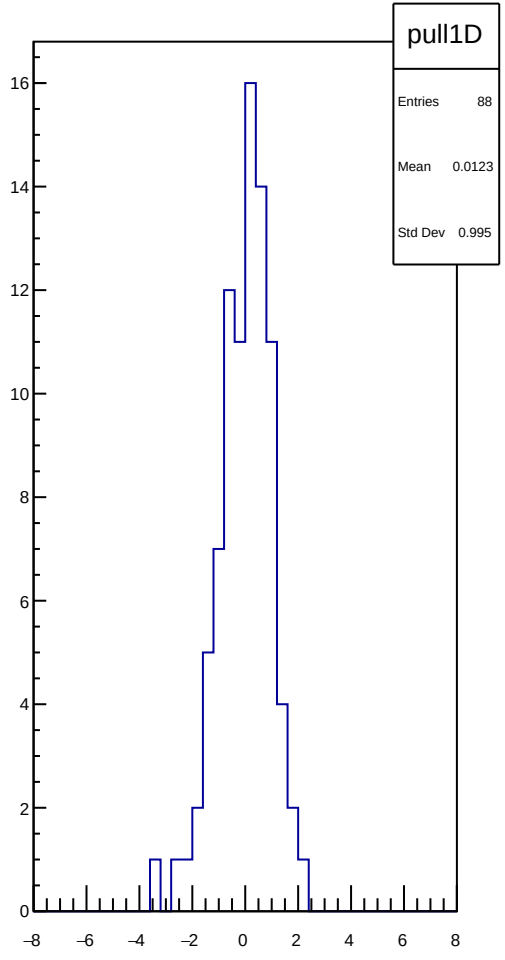

asym_sam1_dit_correction_rms vs run
χ² / ndf 3.138e+04 / 87
p0 529.6 ± 0.4156
750
700
650
600
550
500
450
400

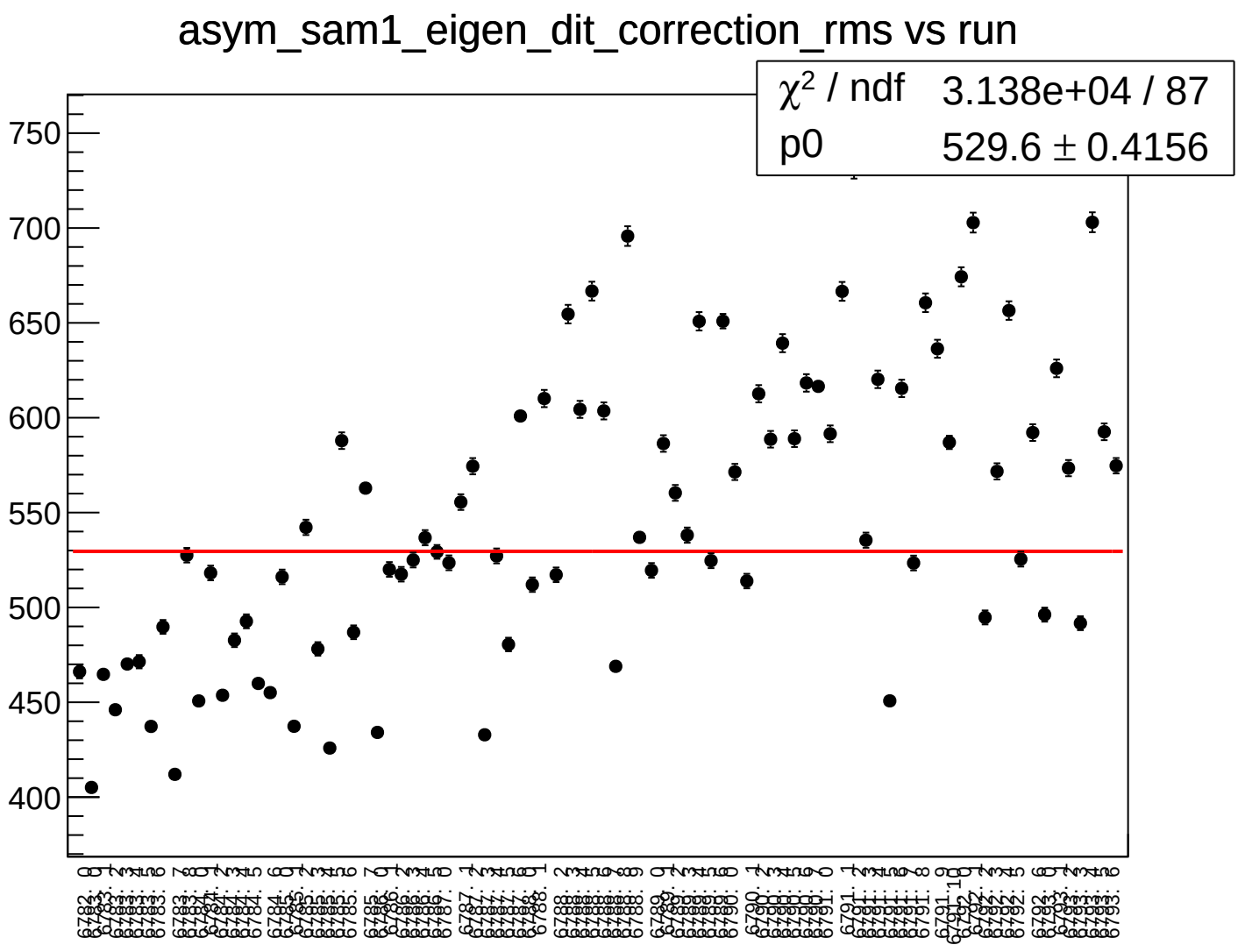

eigen_dit_asym_sam1_mean vs run
χ² / ndf 81.24 / 87
p0 −1.755 ± 101.9
pull
Entries 88
Mean 32.27
Std Dev 167.1

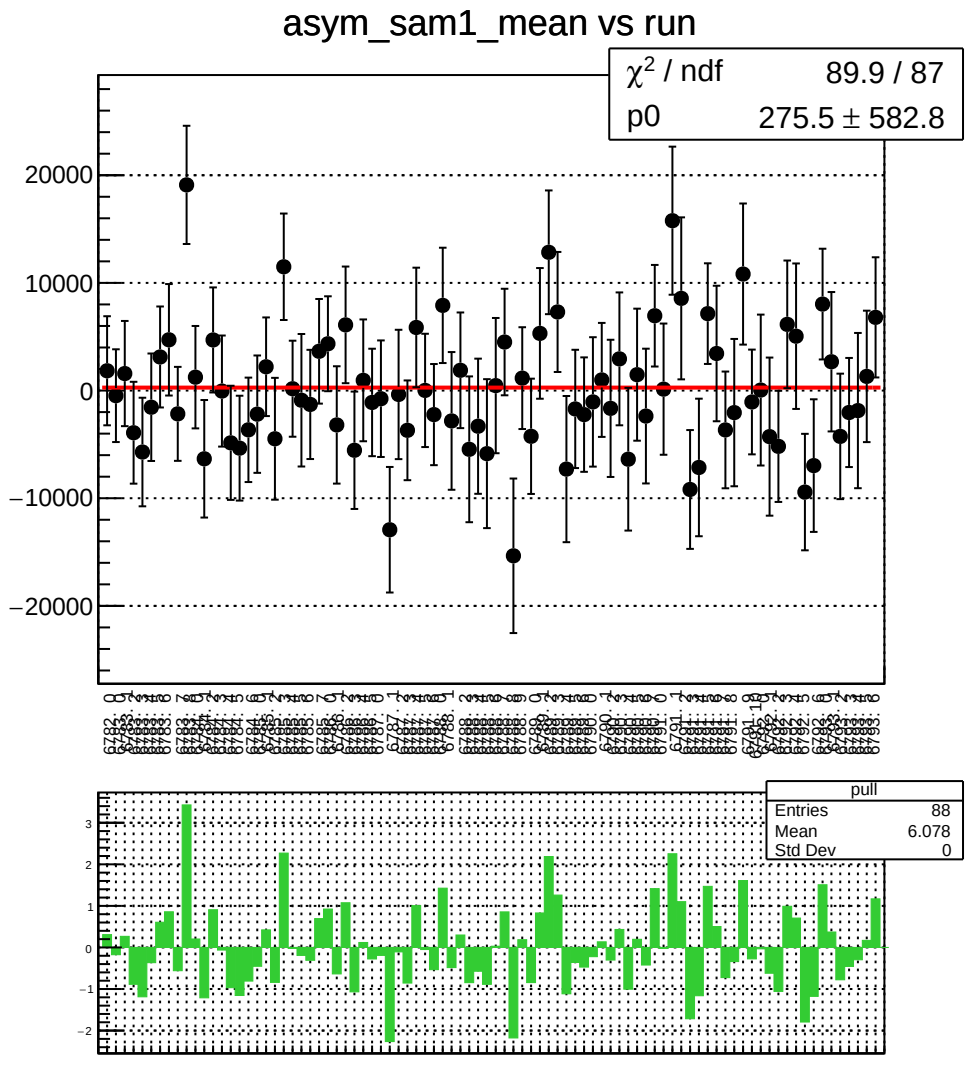

pull1D
Entries 88
Mean 0.002989
Std Dev 0.9608

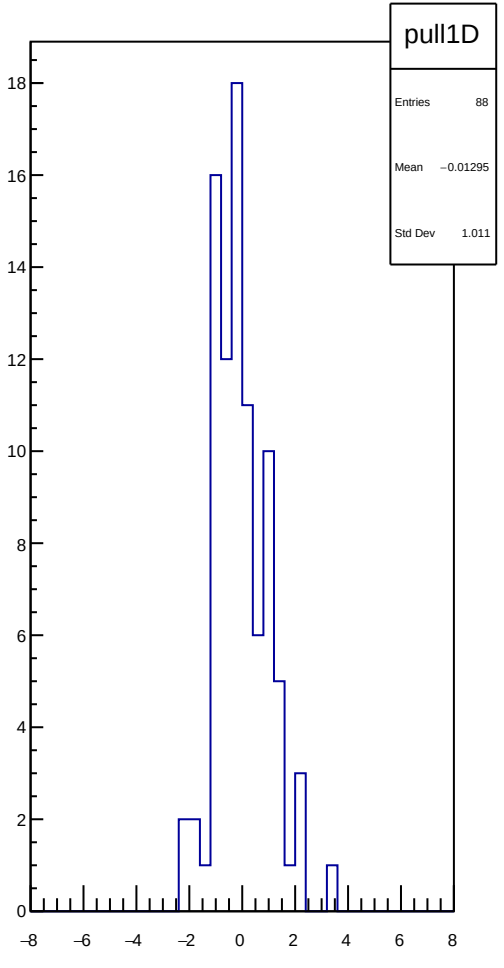

eigen_dit_asym_sam1_rms vs run
χ² / ndf 7455 / 87
p0 92.53 ± 0.07209
105
100
95
90
85

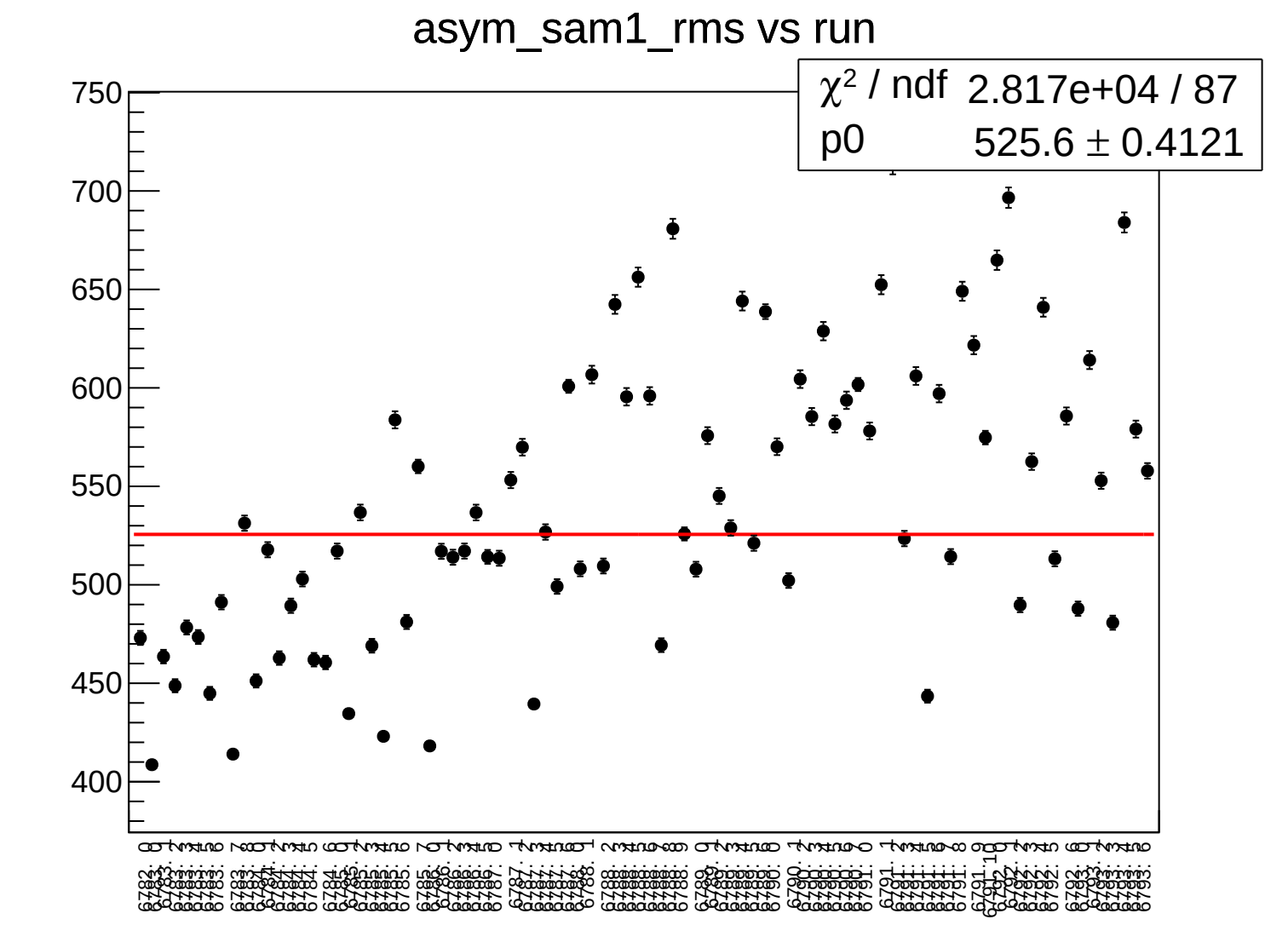

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 87.14 / 87
p0 −269.6 ± 587.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −1.925
Std Dev 0
2
1
0
−1
−2
−3

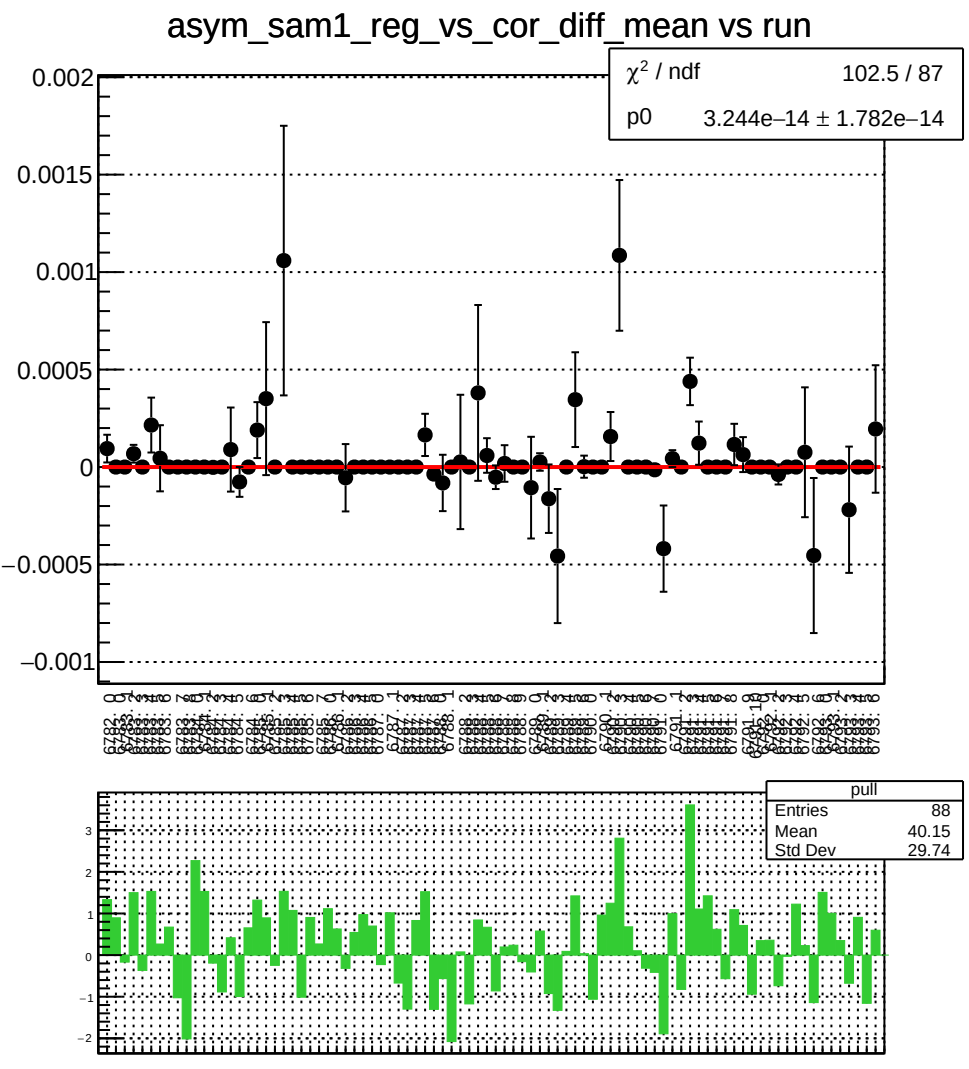

pull1D
Entries 88
Mean 0.0123
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

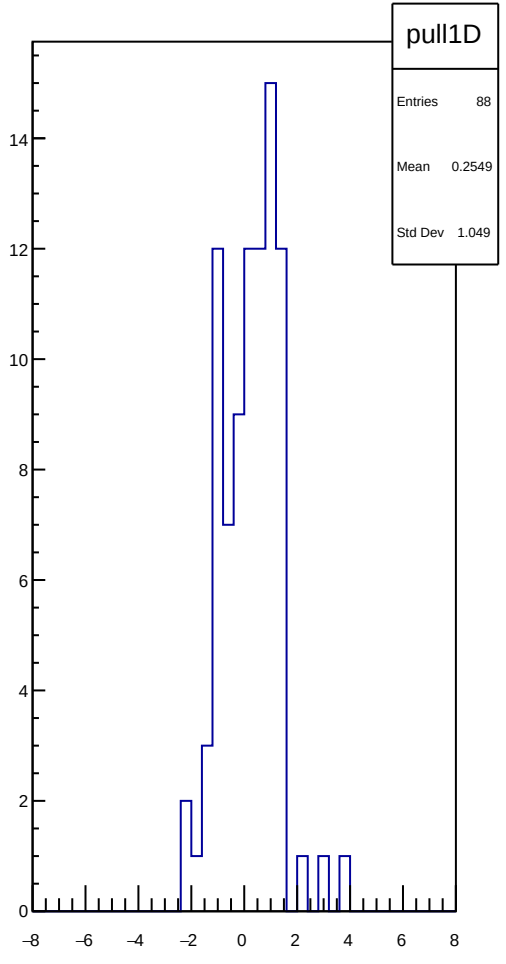

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 3.138e+04 / 87
p0 529.6 ± 0.4156
750
700
650
600
550
500
450
400

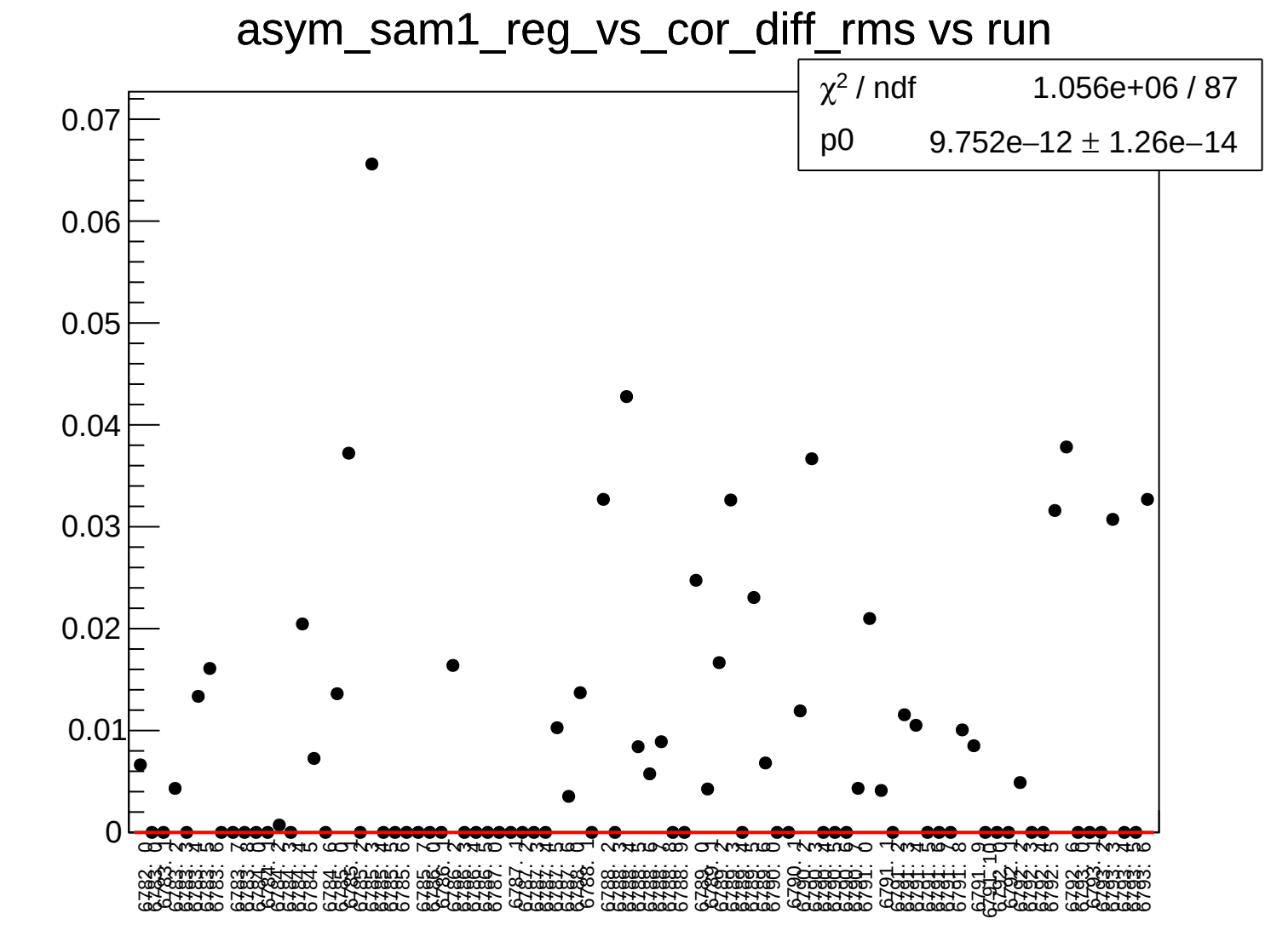

asym_sam1_mean vs run
χ² / ndf 89.9 / 87
p0 275.5 ± 582.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 6.078
Std Dev 0
3
2
1
0
−1
−2

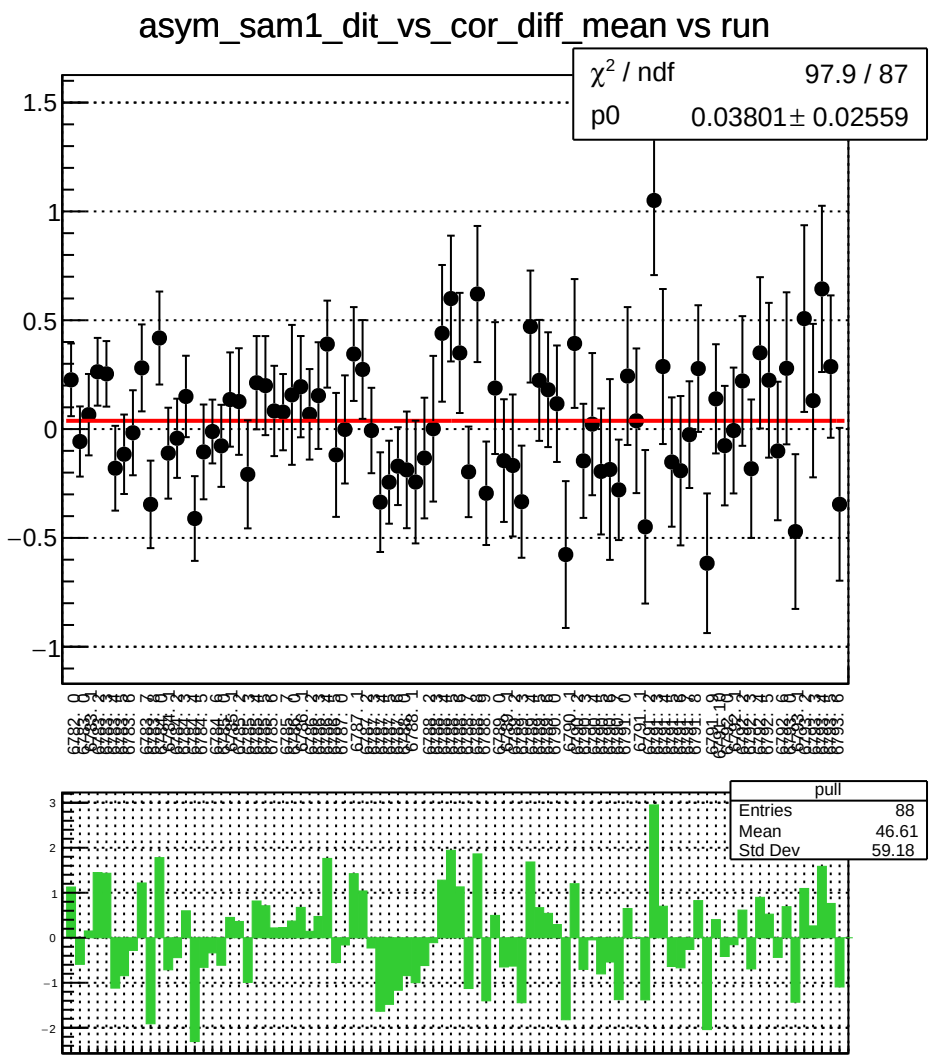

pull1D
Entries 88
Mean −0.01295
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

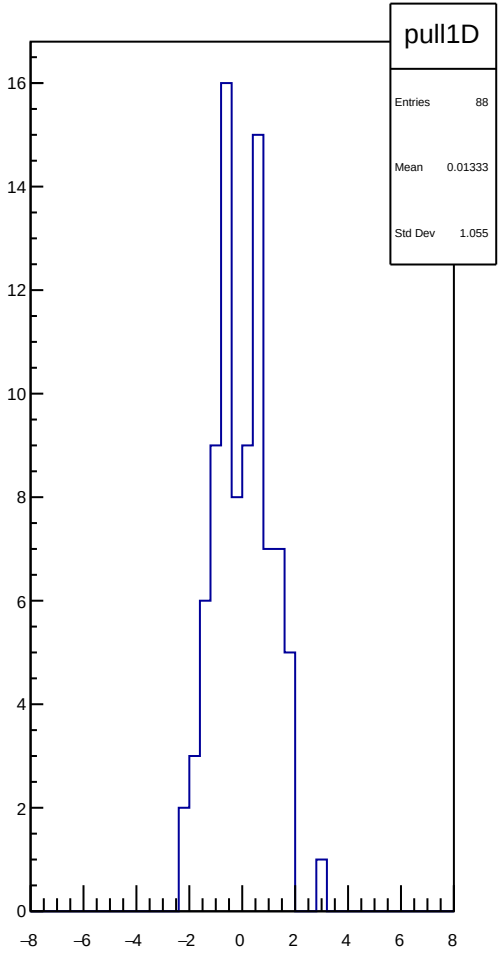

asym_sam1_rms vs run
χ² / ndf 2.817e+04 / 87
p0 525.6 ± 0.4121
750
700
650
600
550
500
450
400

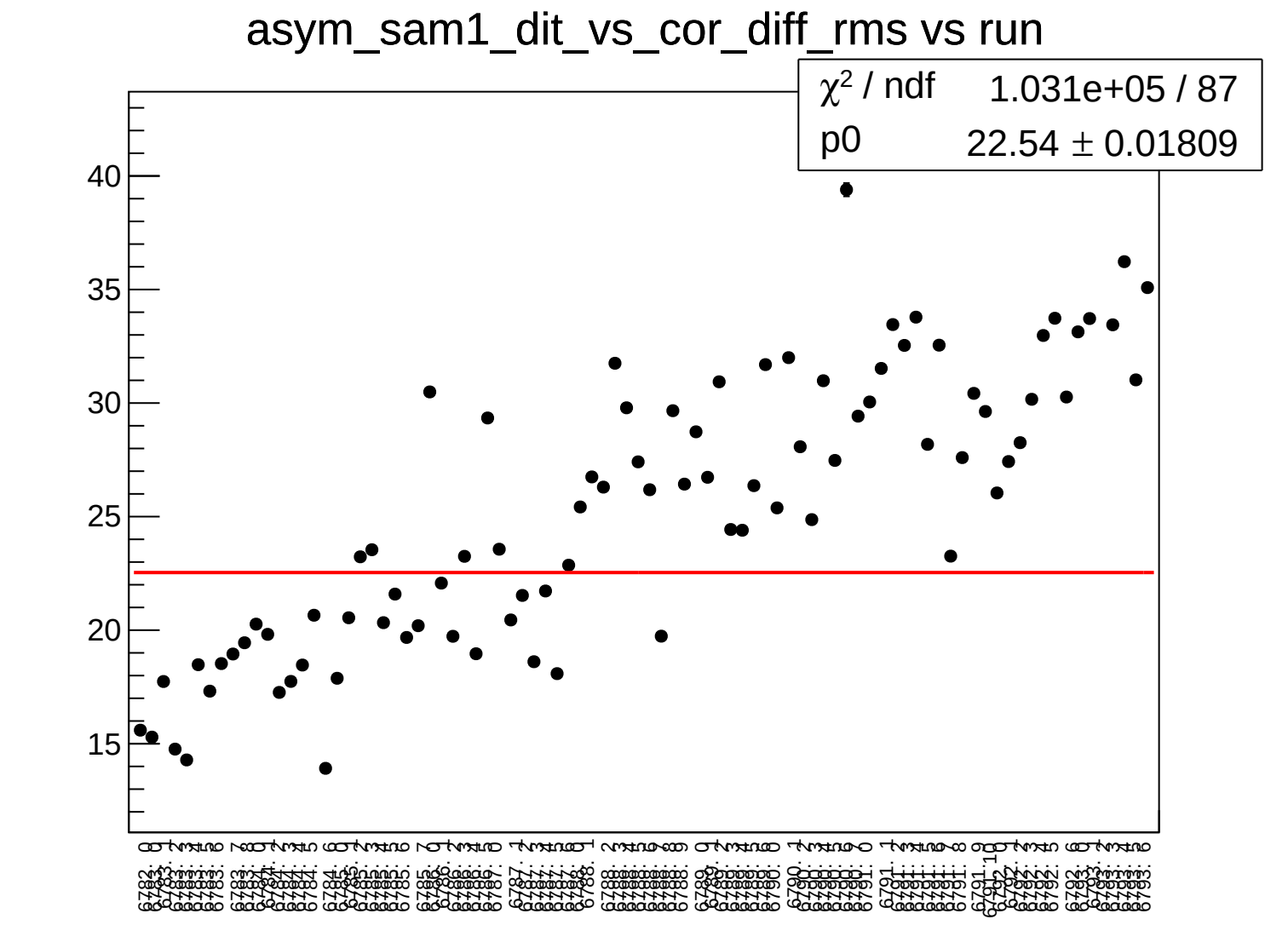

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 3.244e−14 ± 1.782e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 40.15
Std Dev 29.74
3
2
1
0
−1
−2

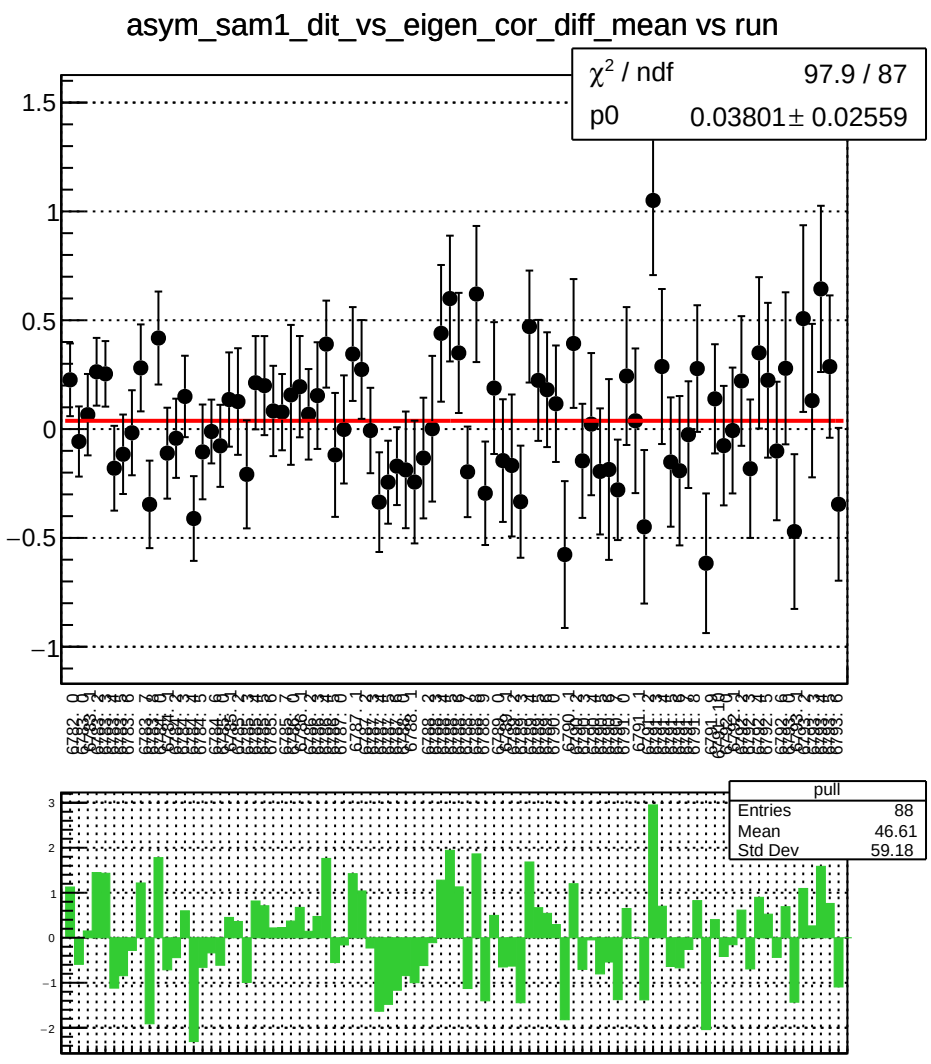

pull1D
Entries 88
Mean 0.2549
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

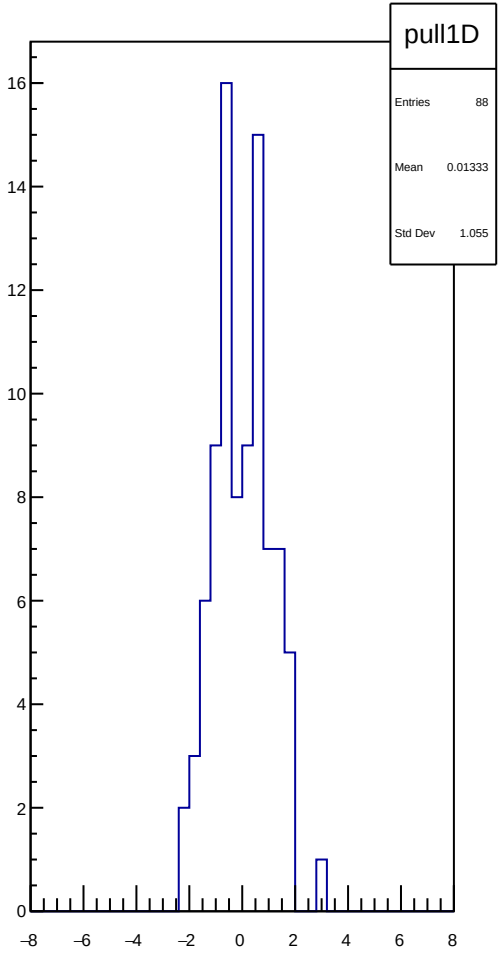

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 87
p0 9.752e−12 ± 1.26e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

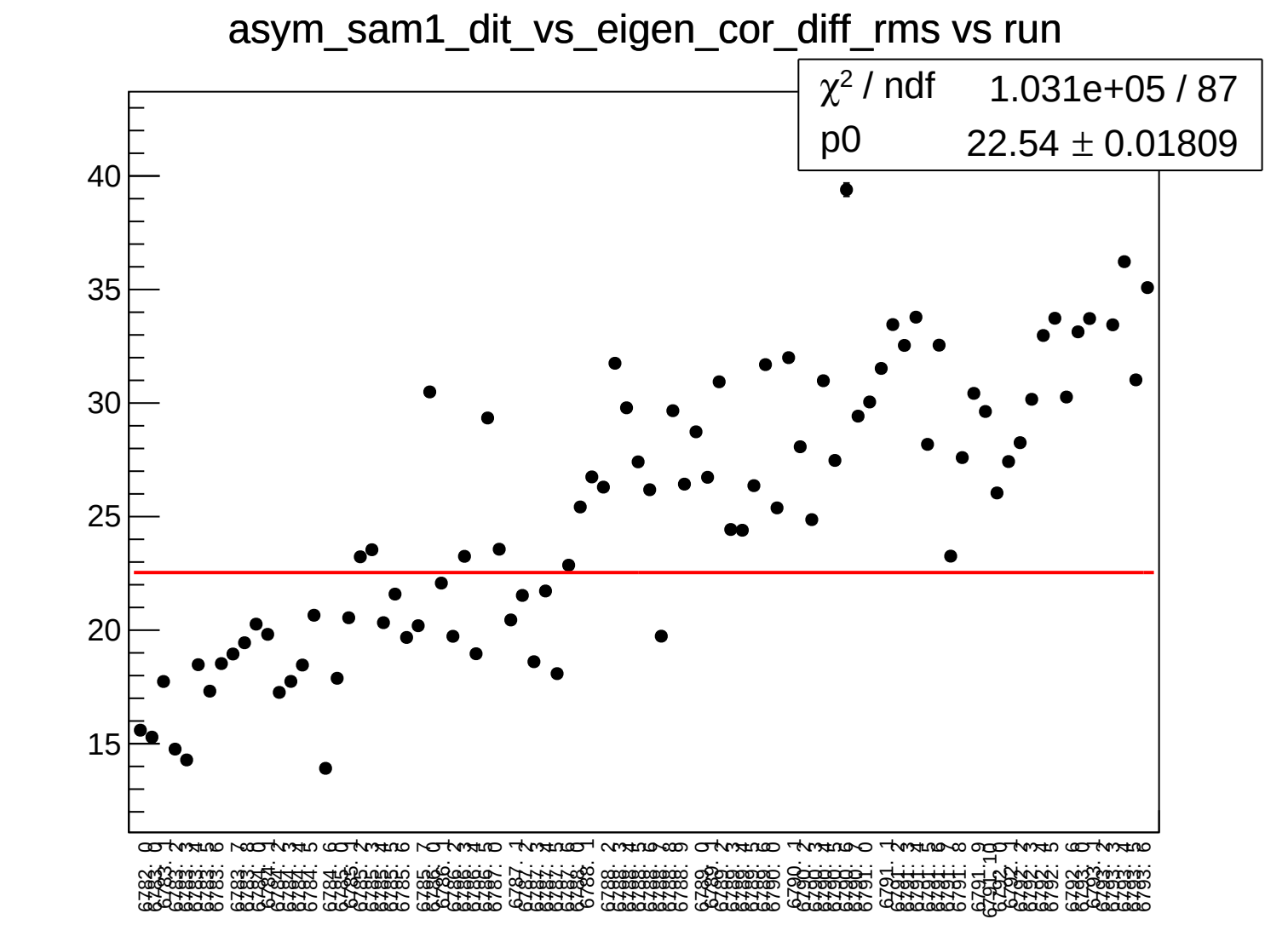

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 97.9 / 87
p0 0.03801 ± 0.02559
pull
Entries 88
Mean 46.61
Std Dev 59.18

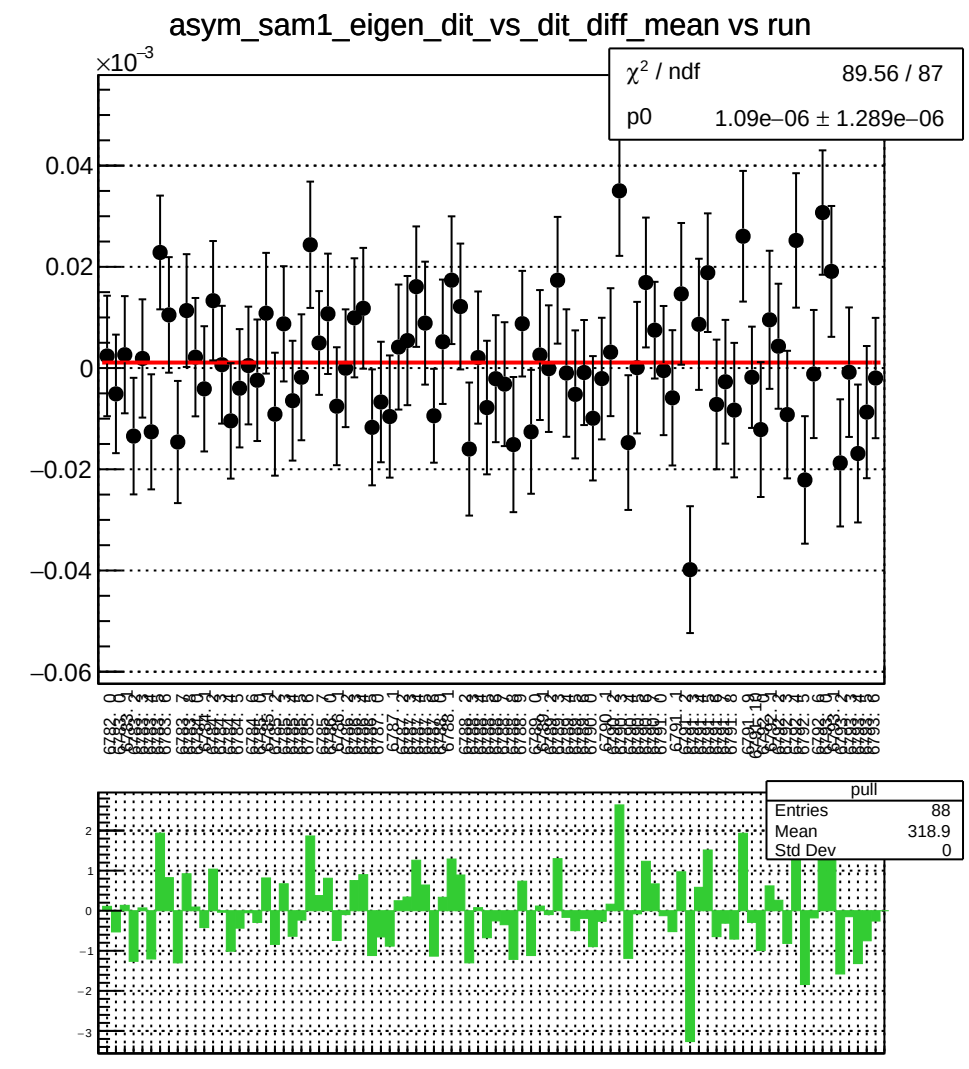

pull1D
Entries 88
Mean 0.01333
Std Dev 1.055

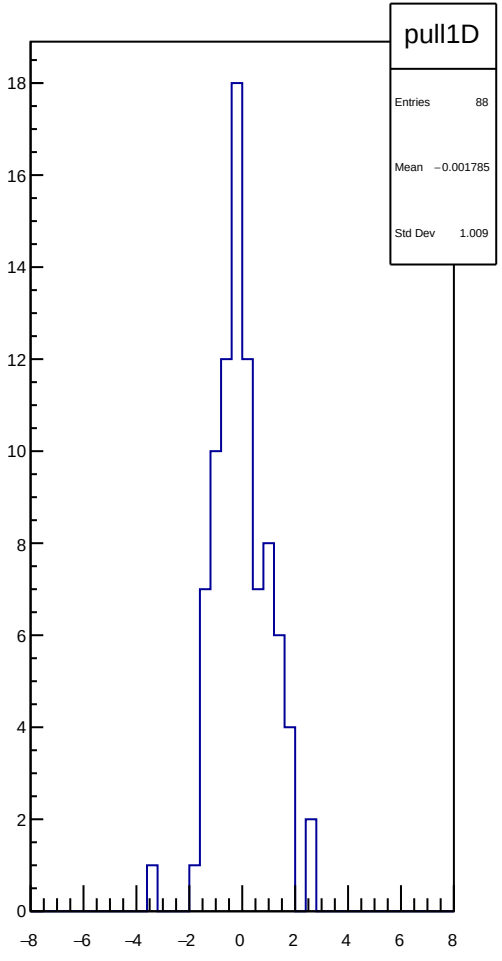

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.031e+05 / 87
p0 22.54 ± 0.01809
40
35
30
25
20
15

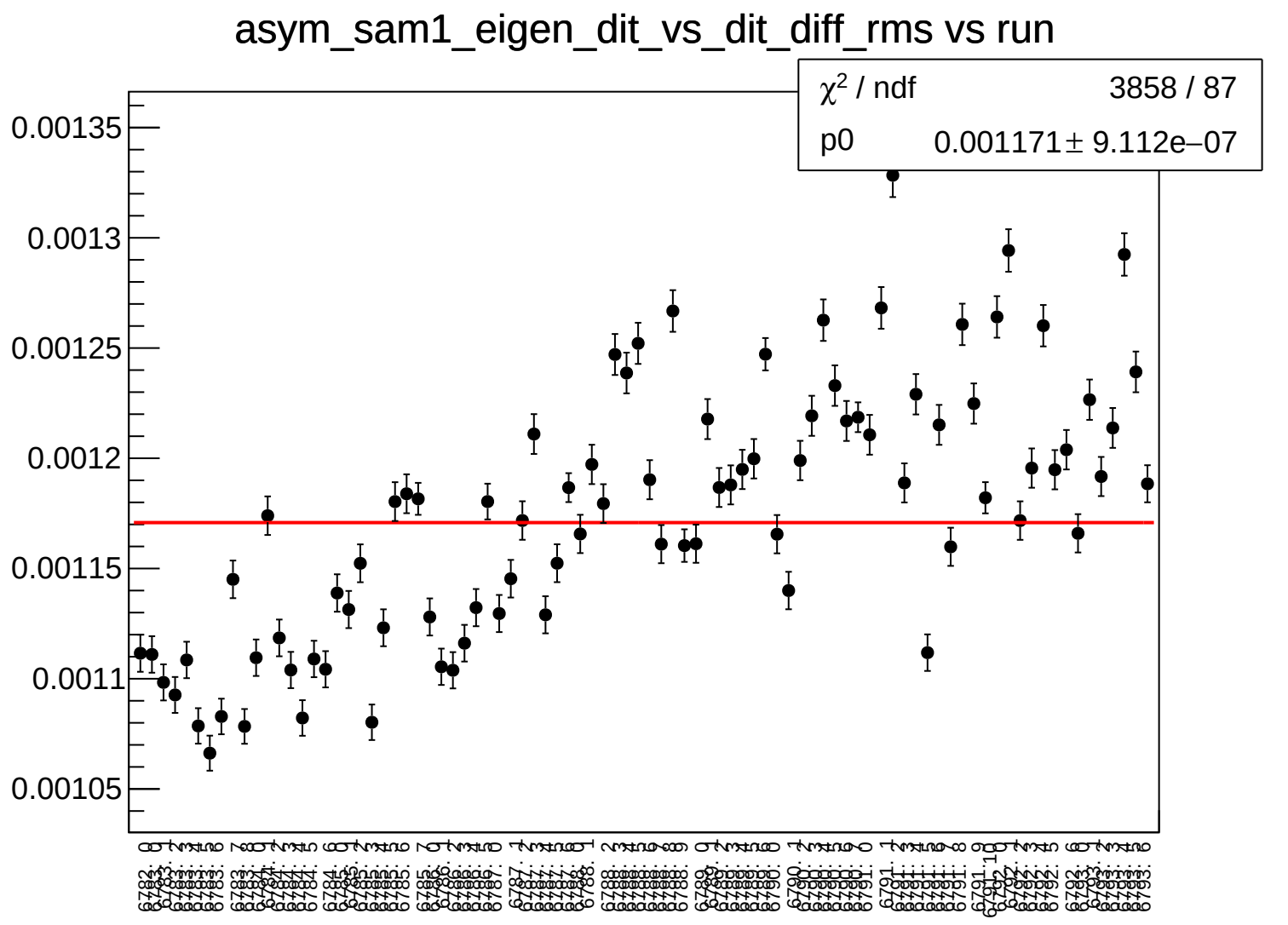

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.9 / 87
p0 0.03801 ± 0.02559
pull
Entries 88
Mean 46.61
Std Dev 59.18

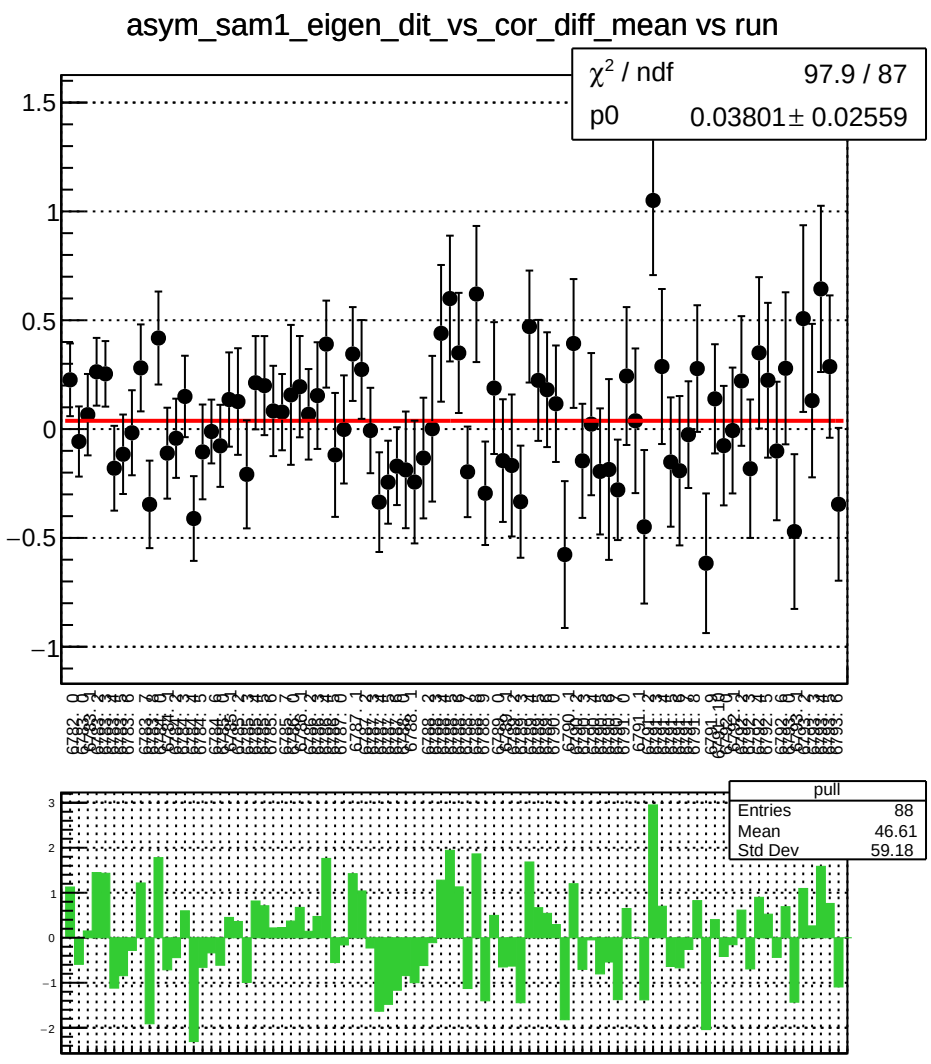

pull1D
Entries 88
Mean 0.01333
Std Dev 1.055

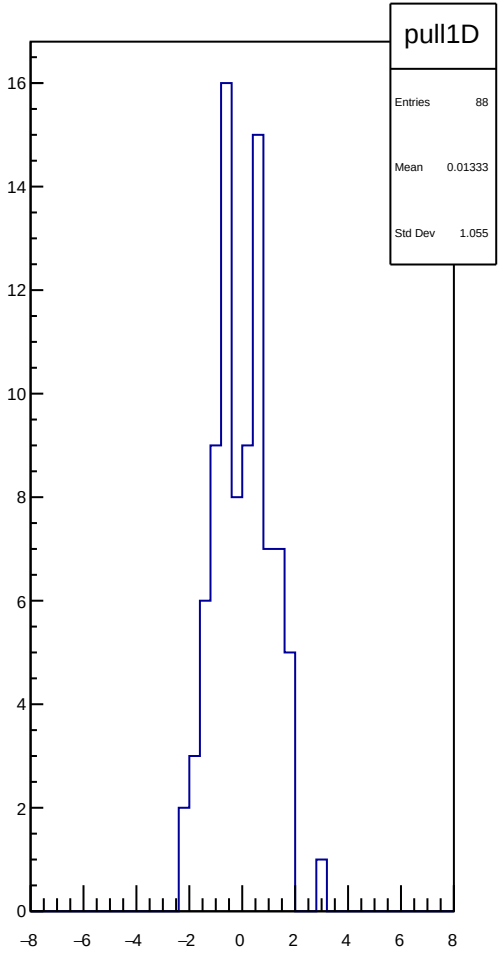

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.031e+05 / 87
p0 22.54 ± 0.01809
40
35
30
25
20
15

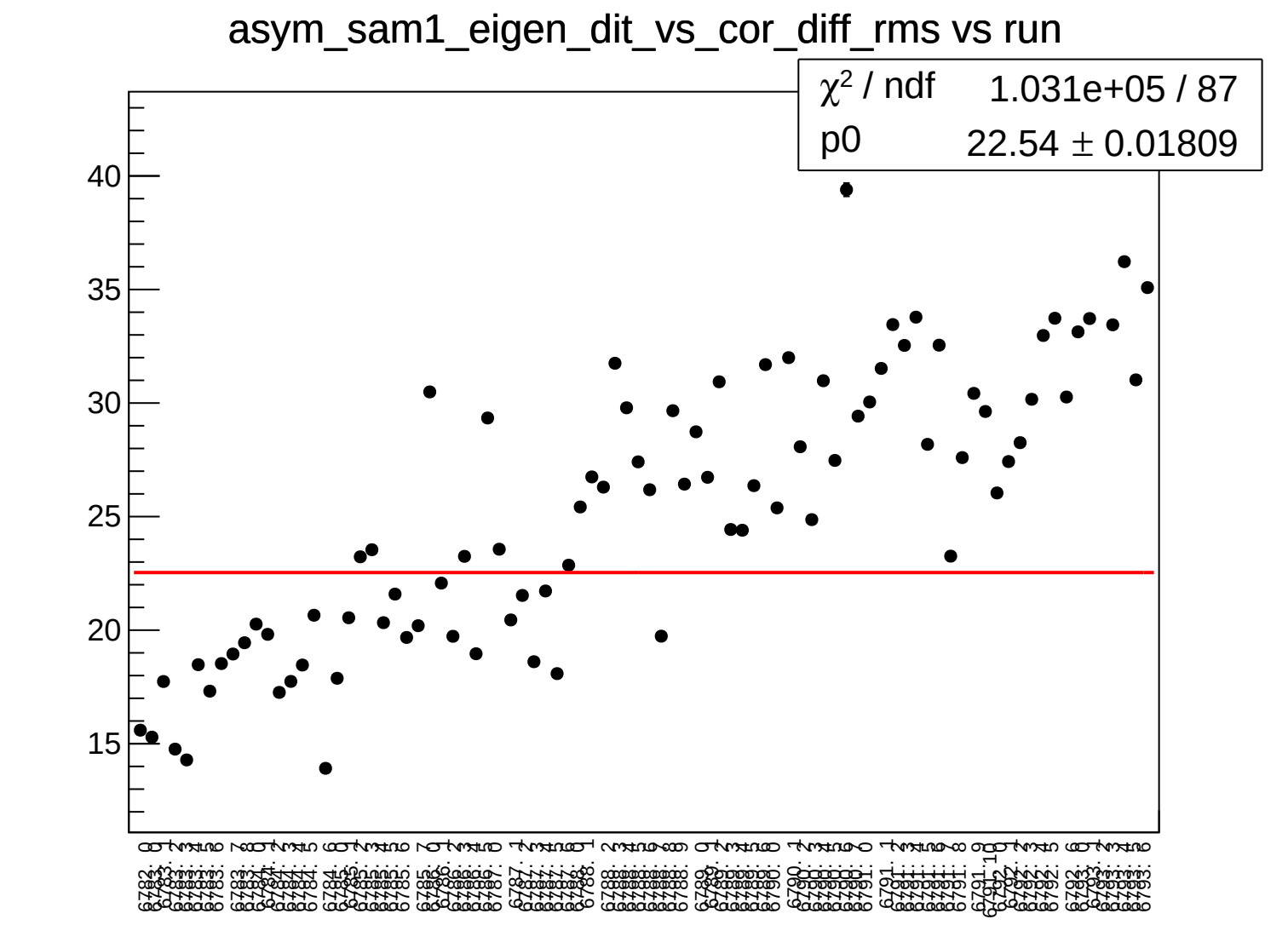

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.56 / 87
p0 1.09e−06 ± 1.289e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 318.9
Std Dev 0
2
1
0
−1
−2
−3

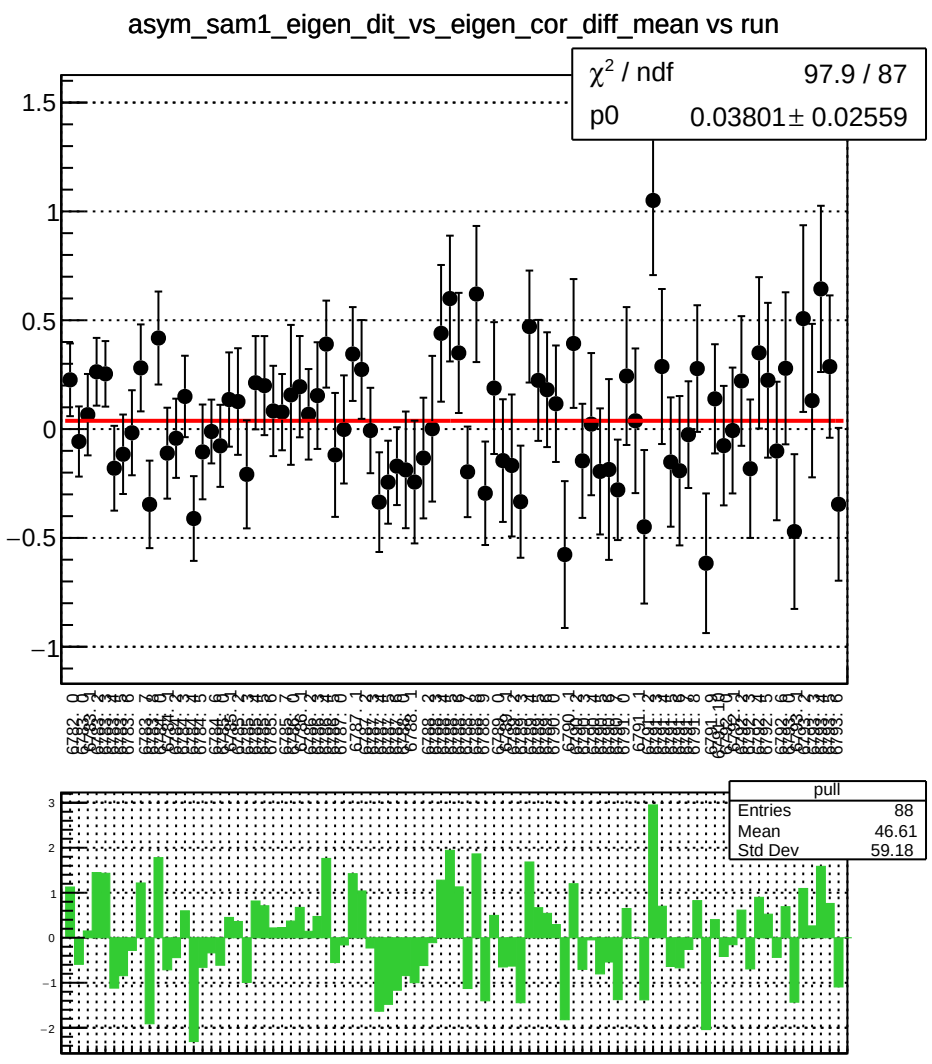

pull1D
Entries 88
Mean −0.001785
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

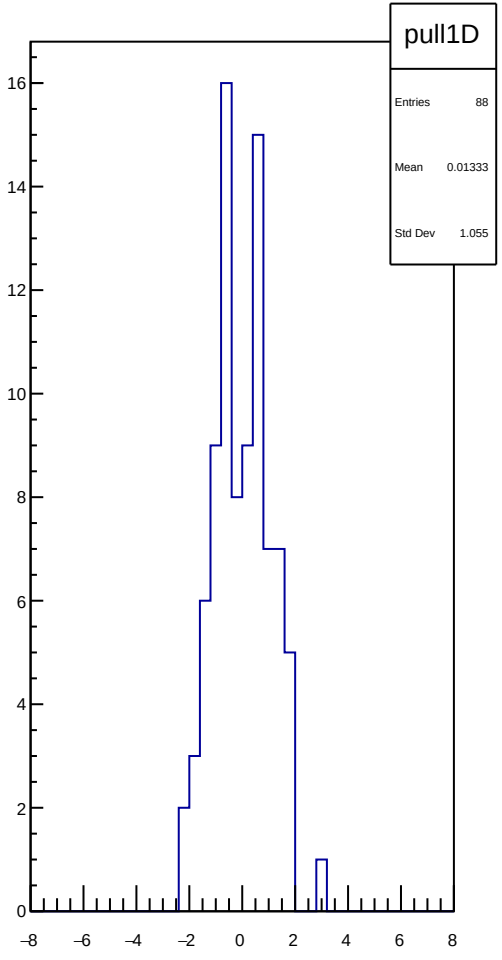

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3858 / 87
p0 0.001171 ± 9.112e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105

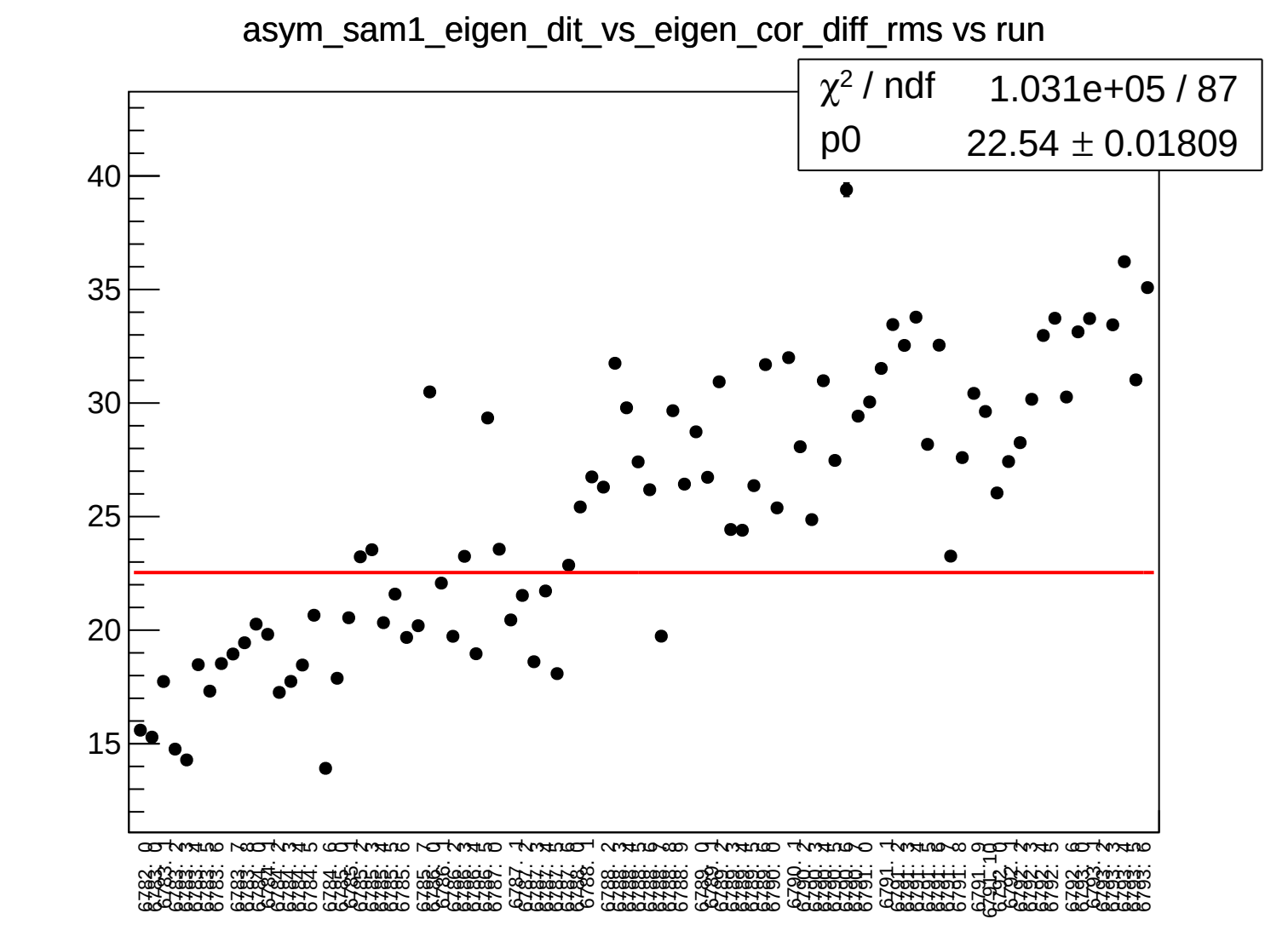

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.9 / 87
p0 0.03801 ± 0.02559
pull
Entries 88
Mean 46.61
Std Dev 59.18

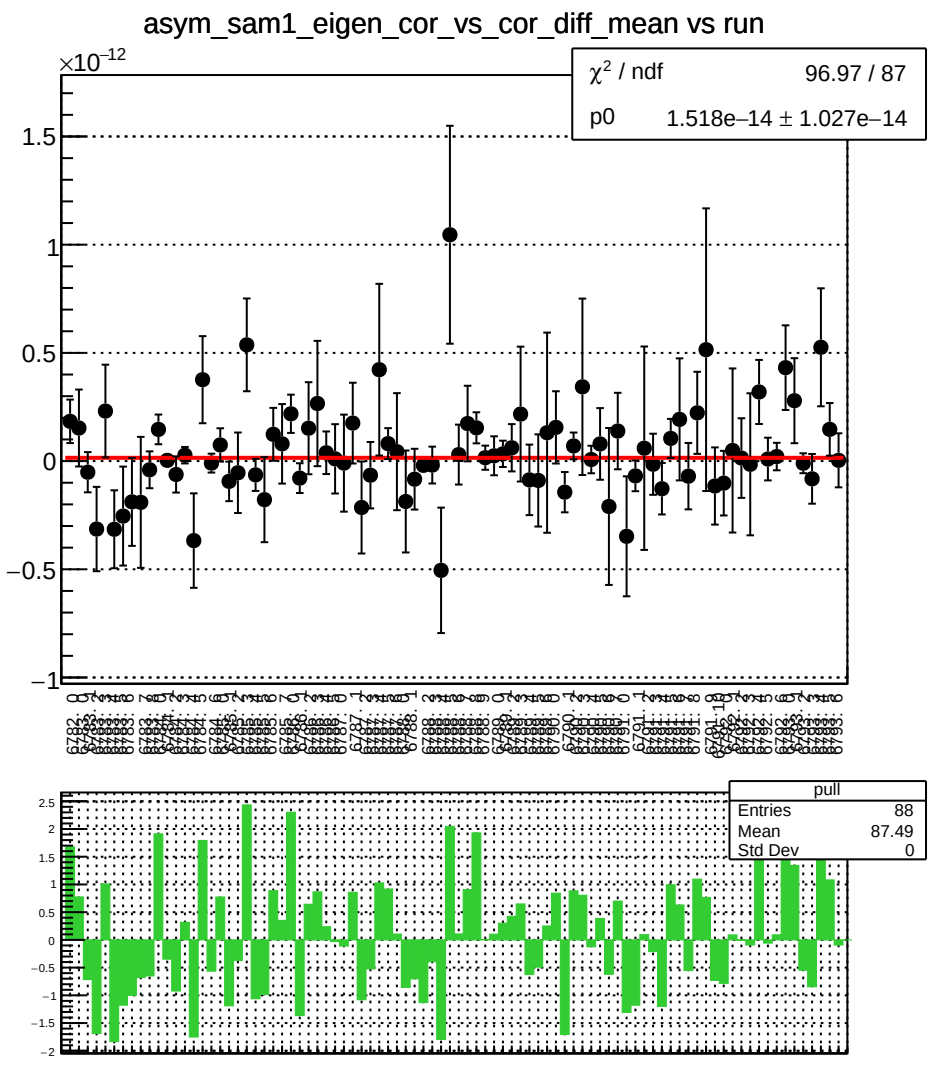

pull1D
Entries 88
Mean 0.01333
Std Dev 1.055

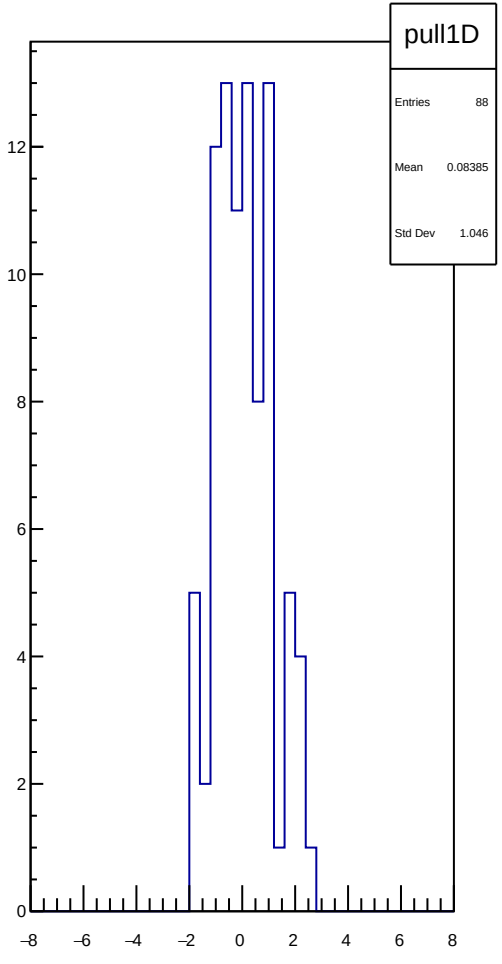

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.031e+05 / 87
p0 22.54 ± 0.01809
40
35
30
25
20
15

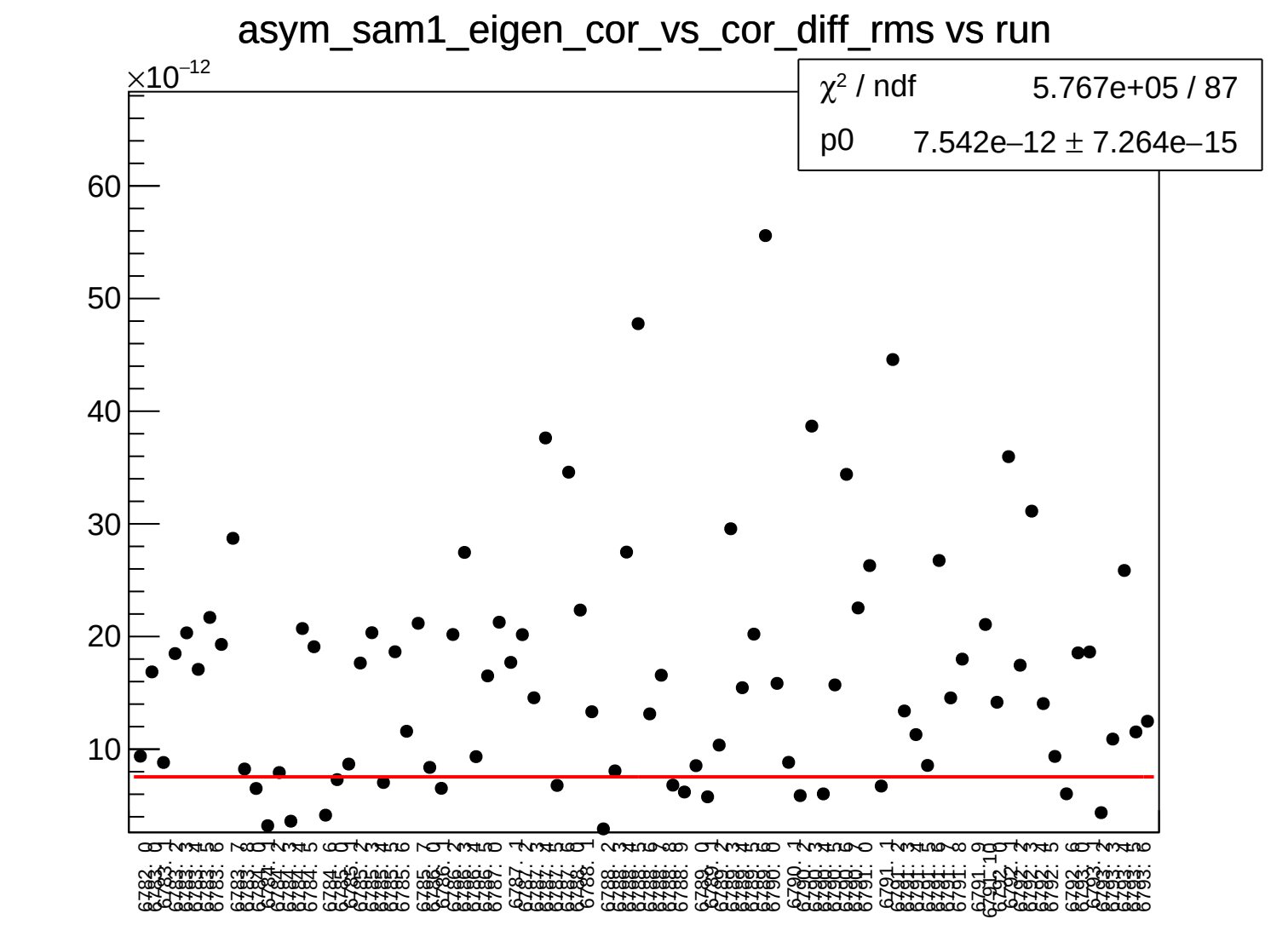

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.9 / 87
p0 0.03801 ± 0.02559
pull
Entries 88
Mean 46.61
Std Dev 59.18

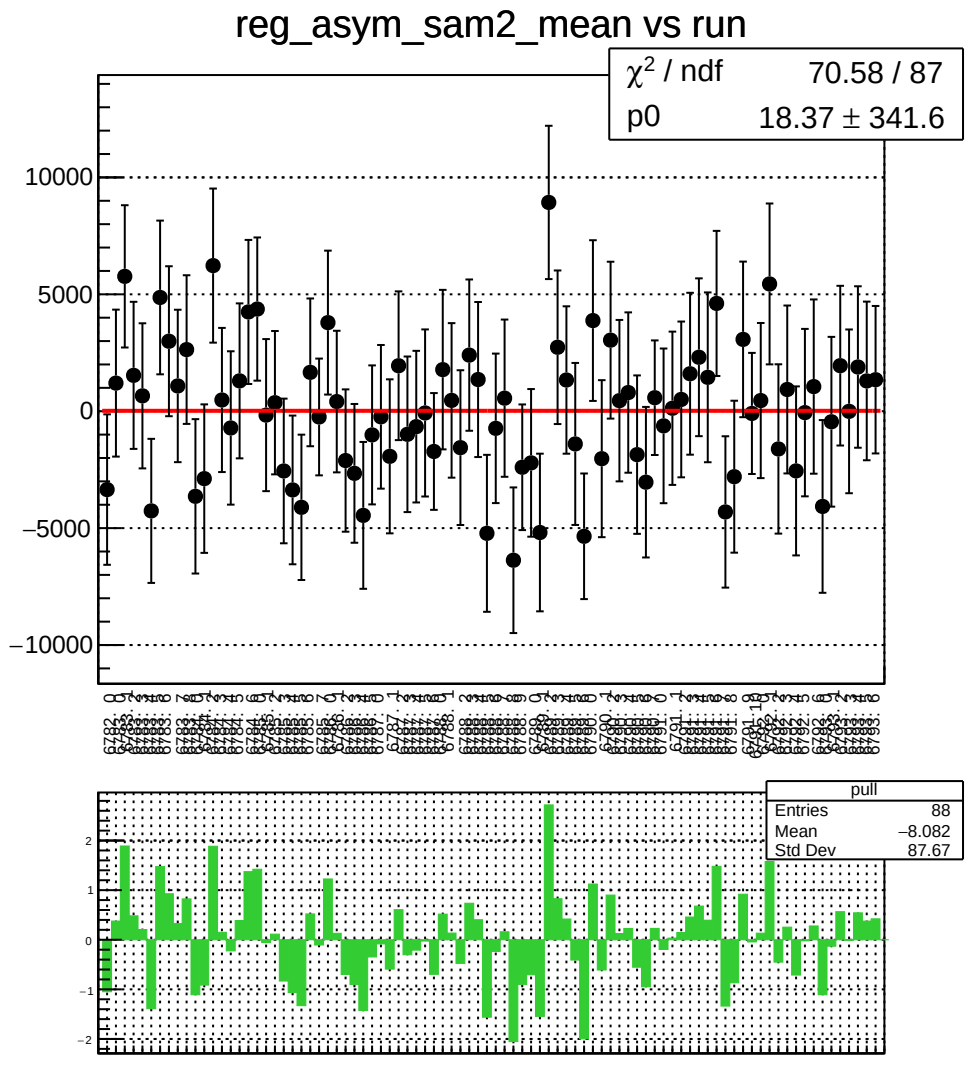

pull1D
Entries 88
Mean 0.01333
Std Dev 1.055

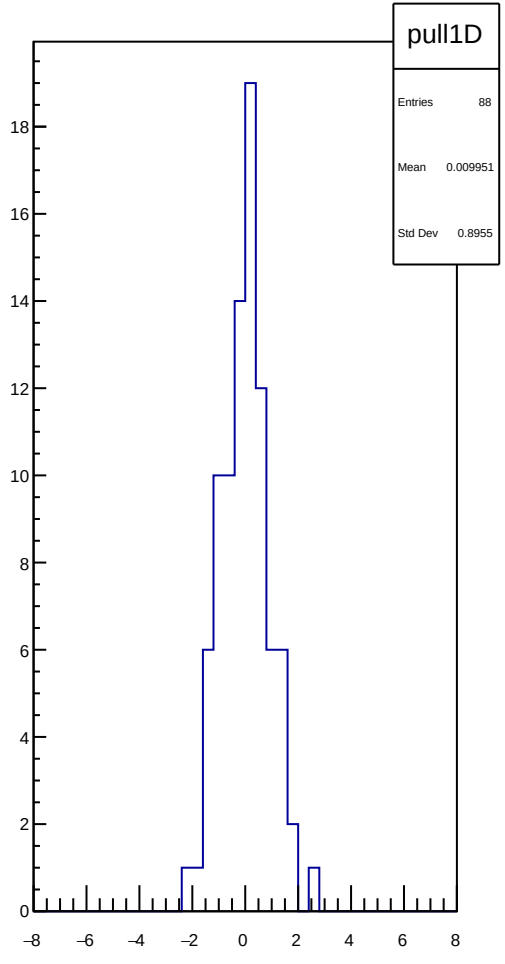

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.031e+05 / 87
p0 22.54 ± 0.01809
40
35
30
25
20
15

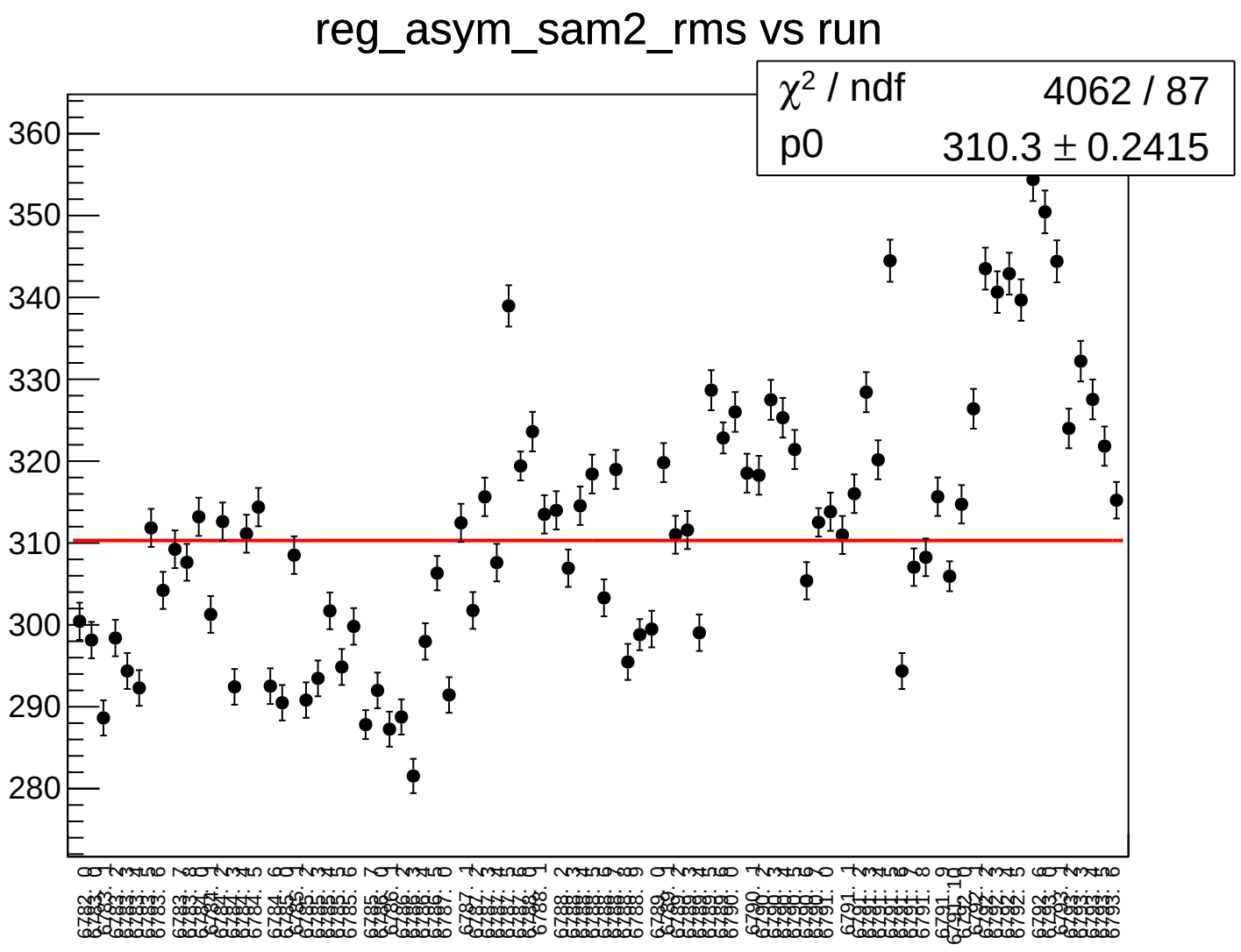

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.97 / 87
p0 1.518e−14 ± 1.027e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 88
Mean 87.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

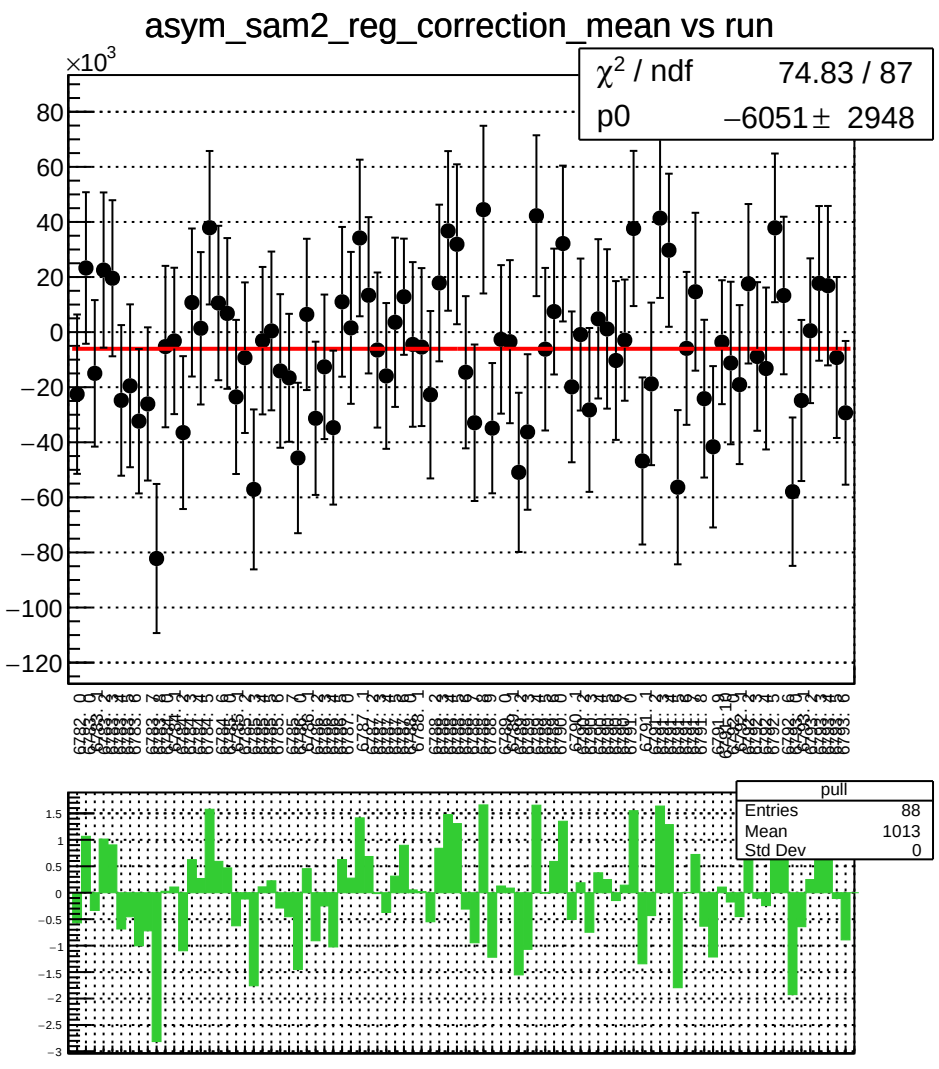

pull1D
Entries 88
Mean 0.08385
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

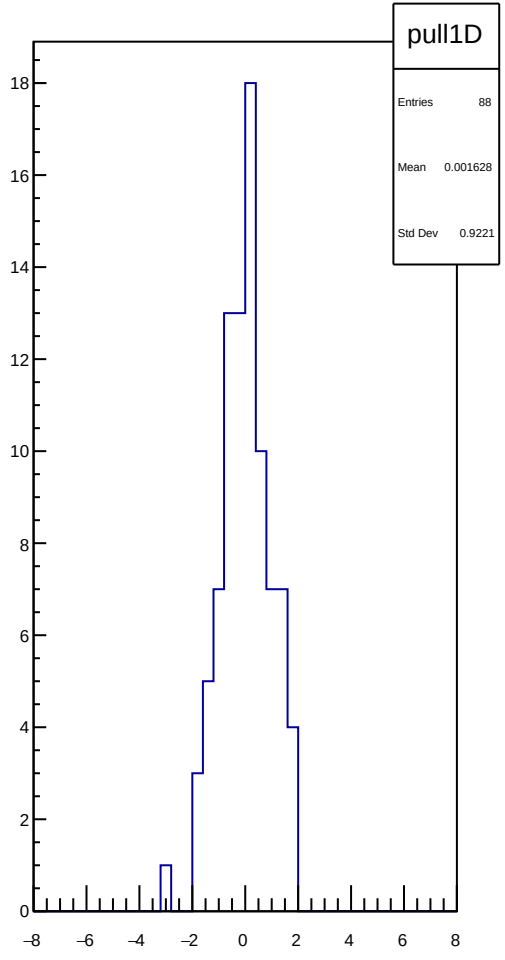

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.767e+05 / 87
p0 7.542e−12 ± 7.264e−15
60
50
40
30
20
10

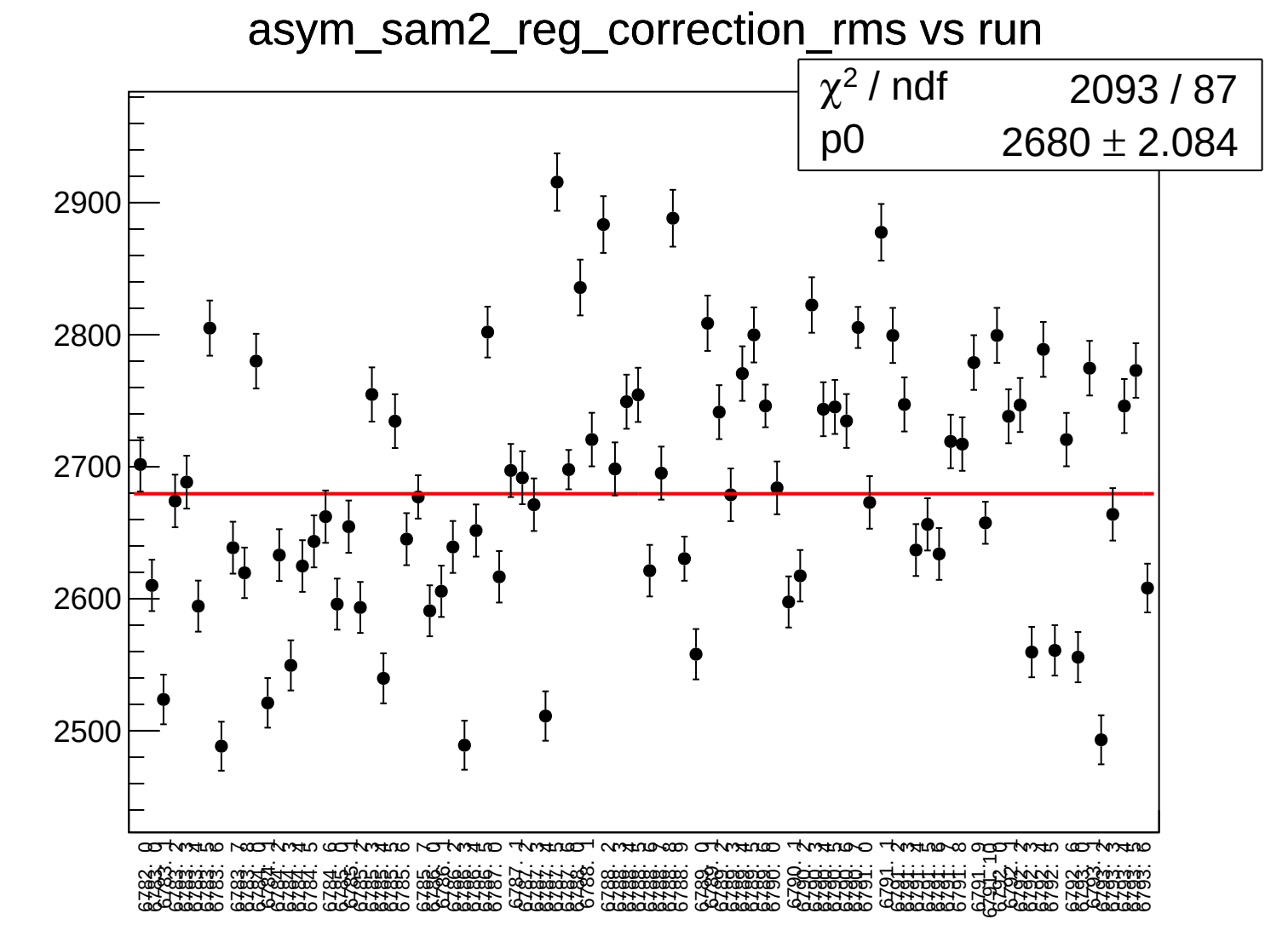

reg_asym_sam2_mean vs run
χ² / ndf 70.58 / 87
p0 18.37 ± 341.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −8.082
Std Dev 87.67
2
1
0
−1
−2

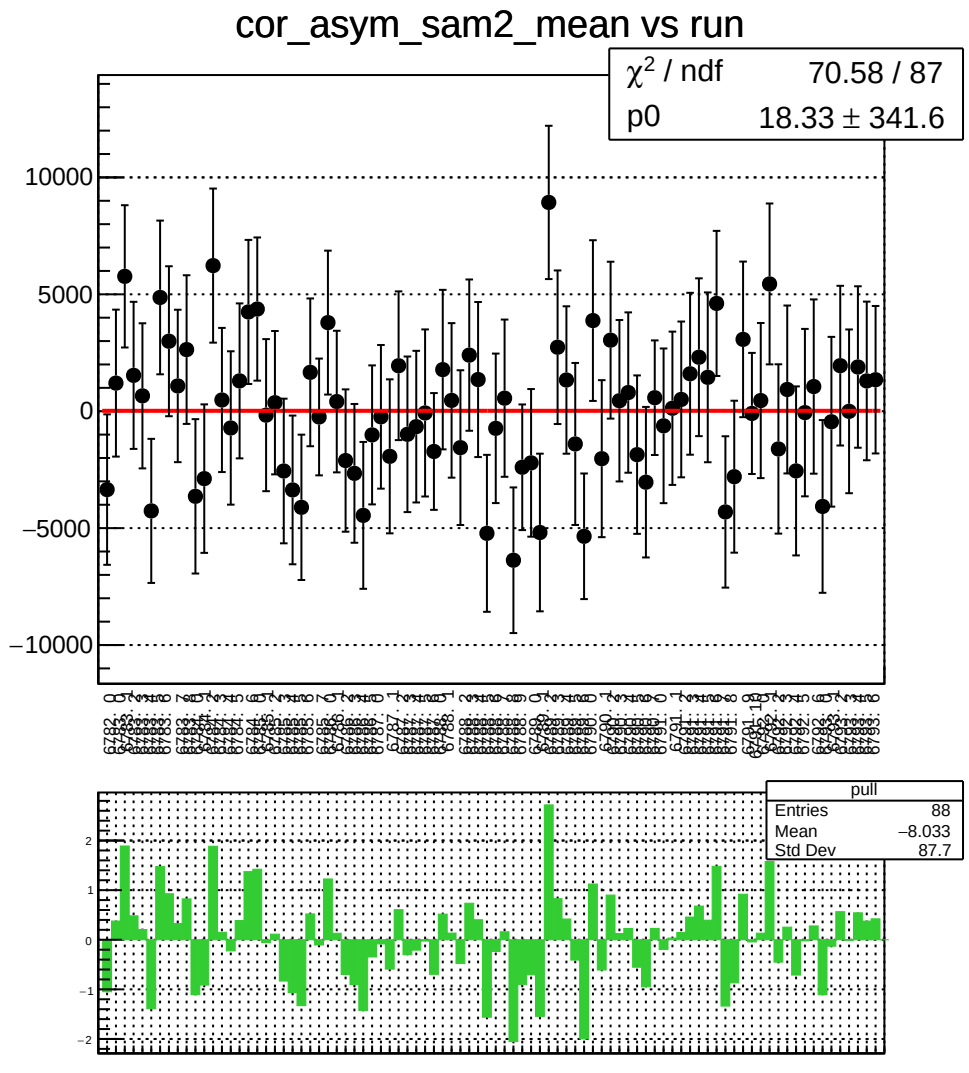

pull1D
Entries 88
Mean 0.009951
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

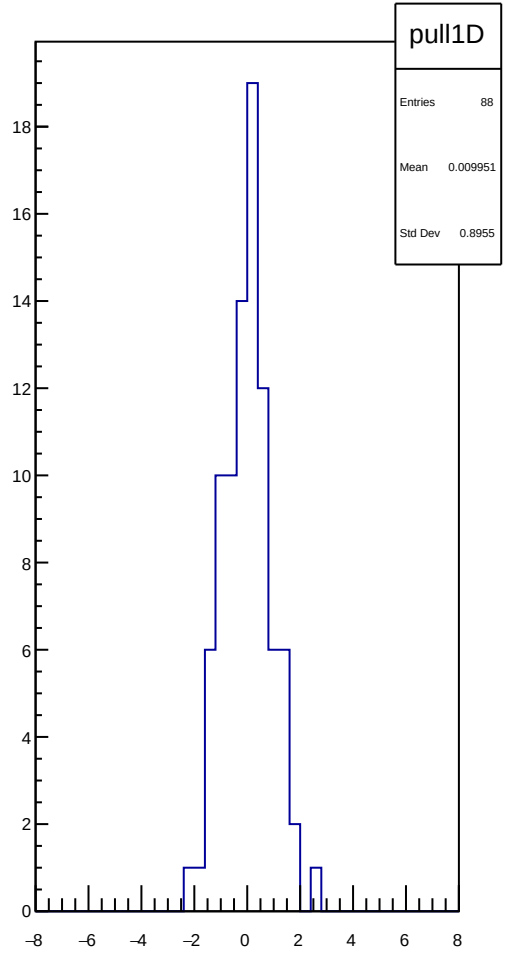

reg_asym_sam2_rms vs run
χ² / ndf 4062 / 87
p0 310.3 ± 0.2415
360
350
340
330
320
310
300
290
280

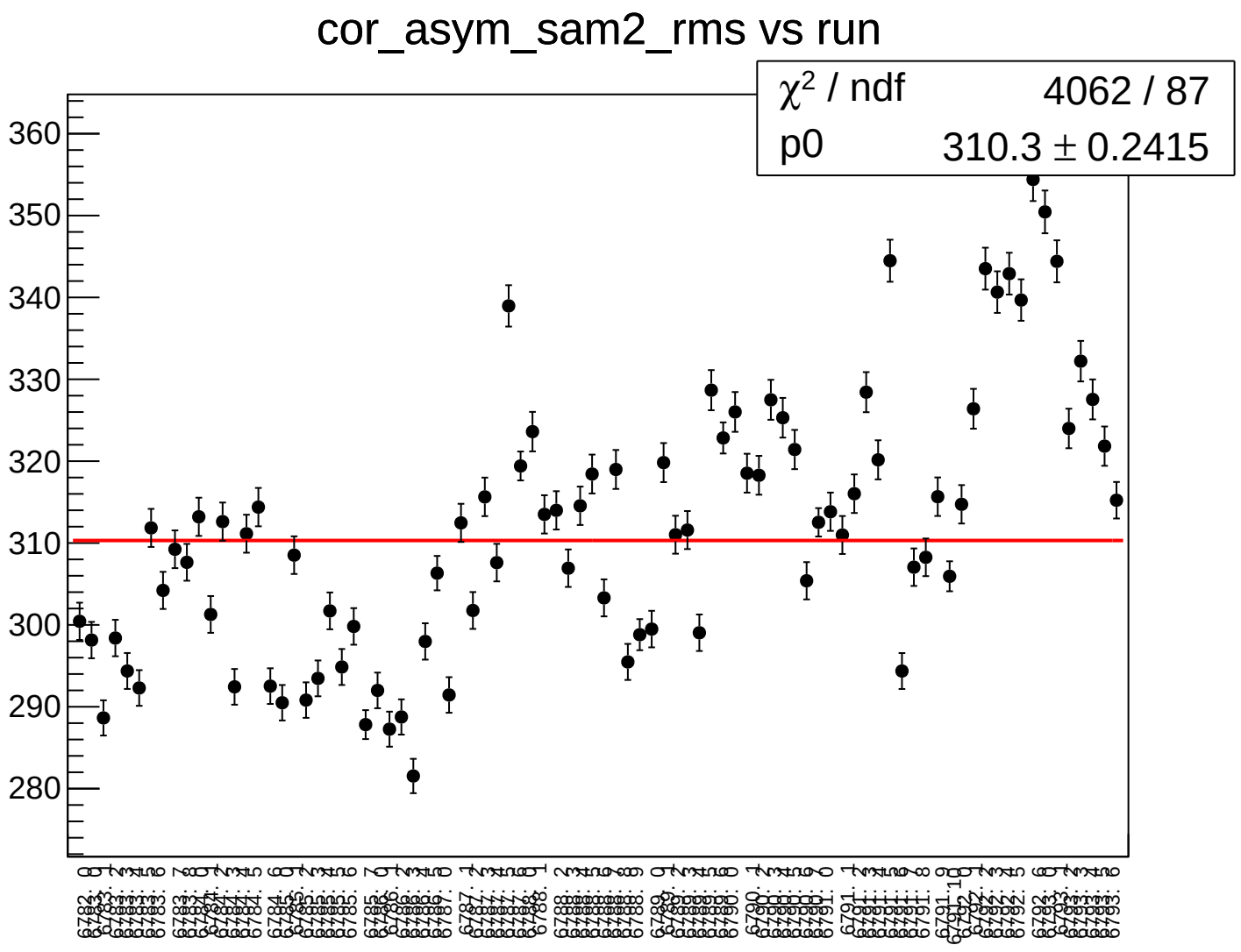

asym_sam2_reg_correction_mean vs run
χ² / ndf 74.83 / 87
p0 −6051 ± 2948
×10³
pull
Entries 88
Mean 1013
Std Dev 0

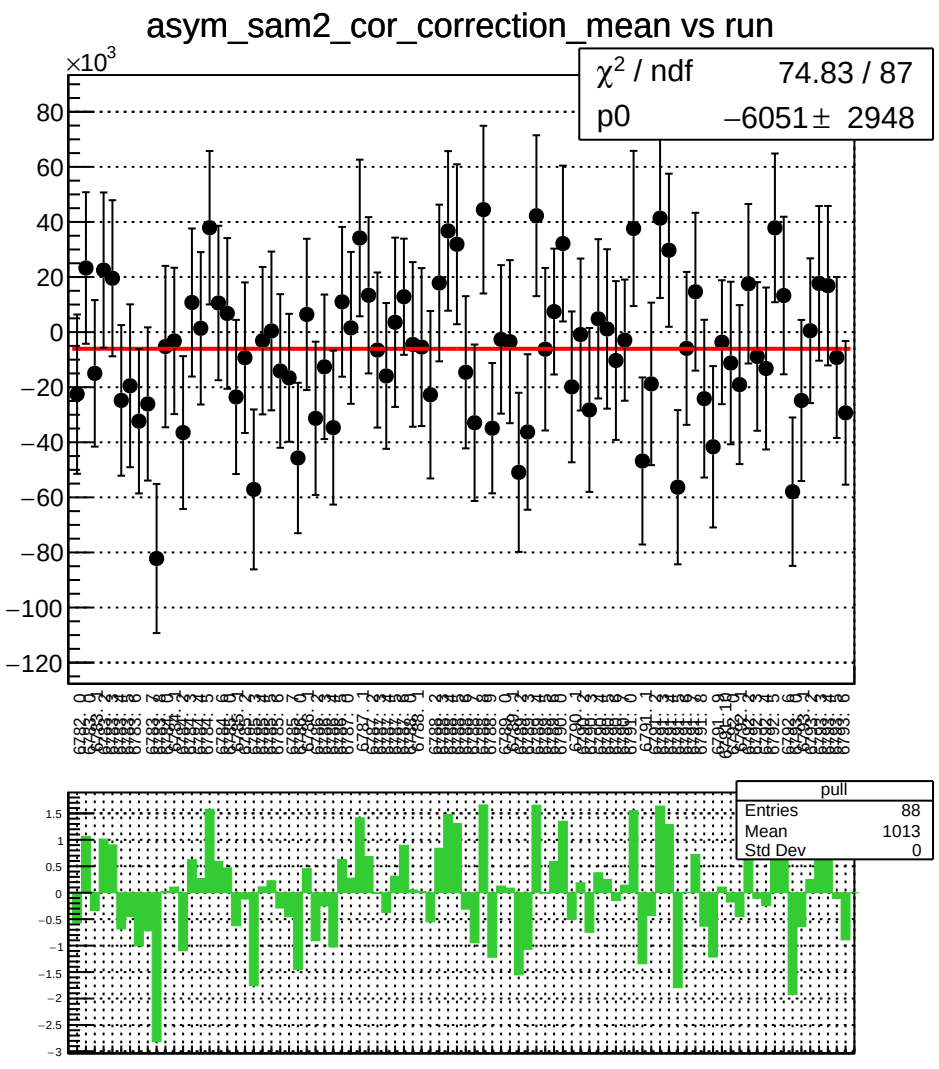

pull1D
Entries 88
Mean 0.001628
Std Dev 0.9221

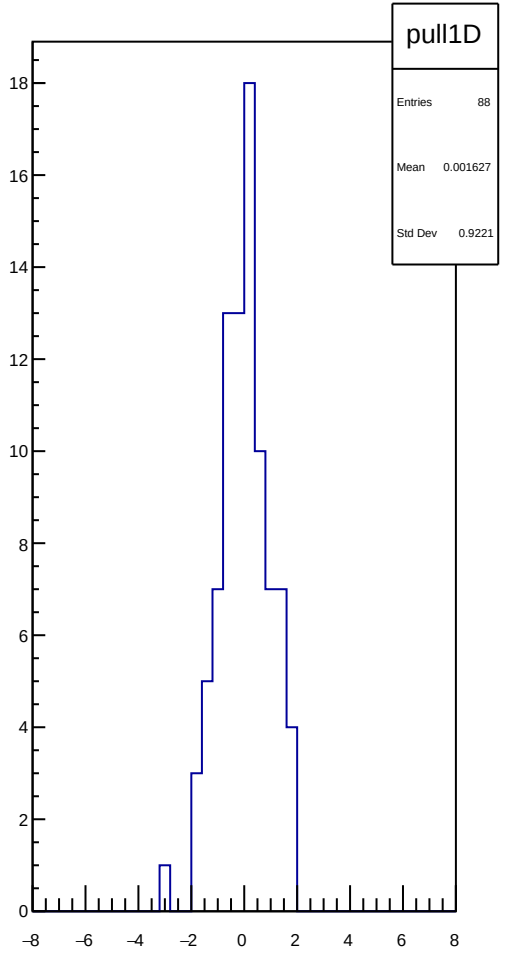

asym_sam2_reg_correction_rms vs run
χ² / ndf 2093 / 87
p0 2680 ± 2.084
2900
2800
2700
2600
2500

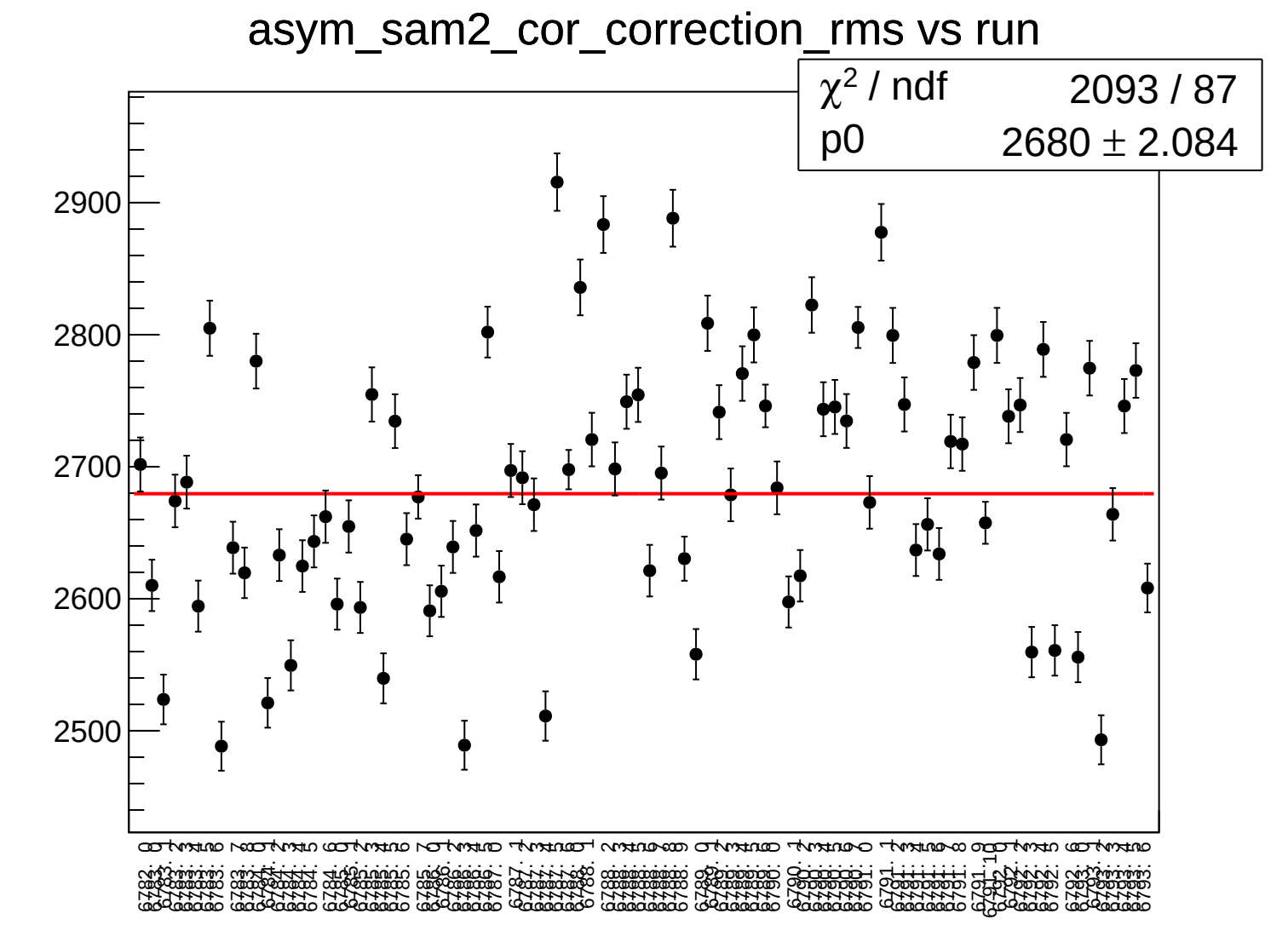

cor_asym_sam2_mean vs run
χ^2 / ndf 70.58 / 87
p0 18.33 ± 341.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −8.033
Std Dev 87.7
2
1
0
−1
−2

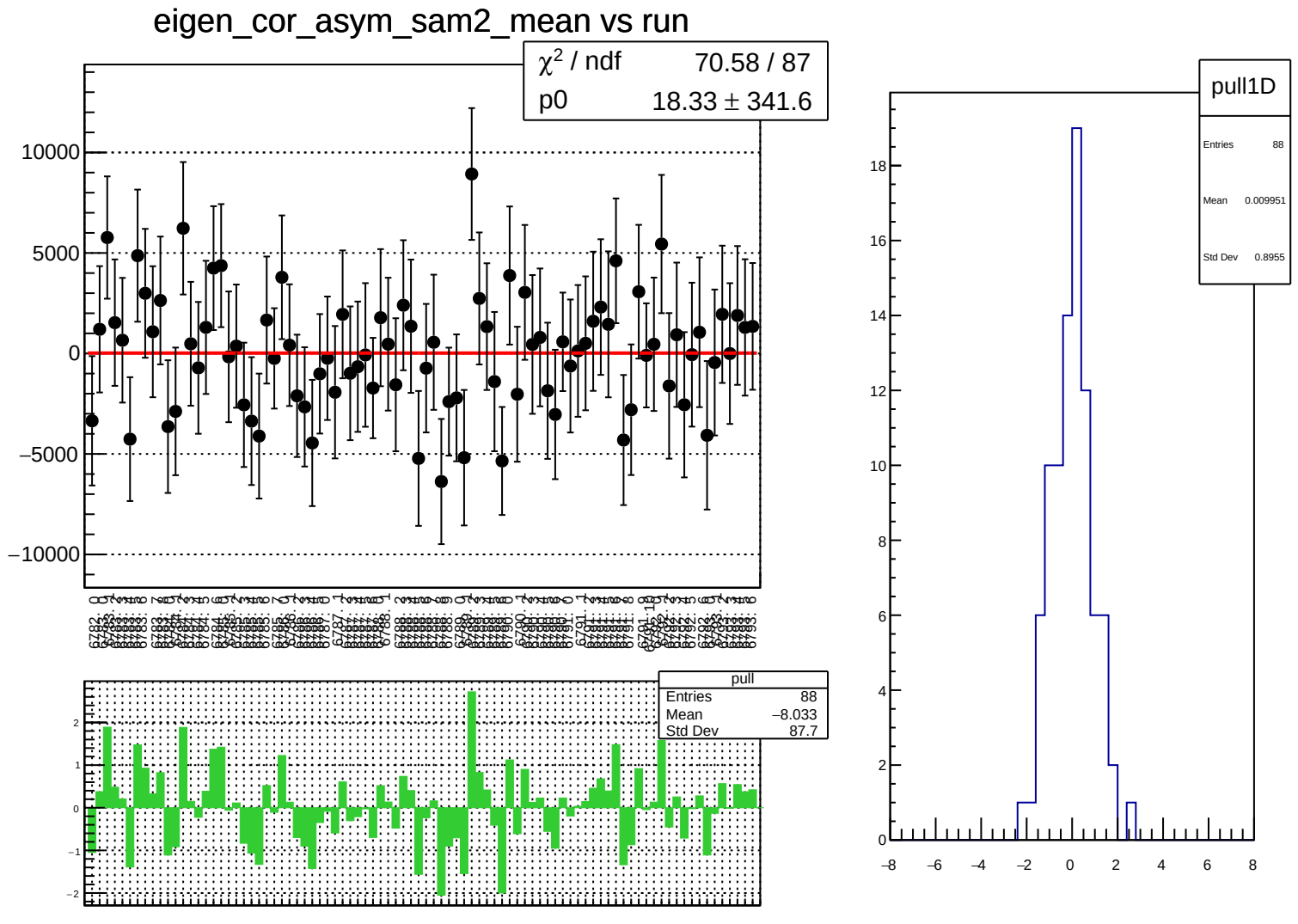

pull1D
Entries 88
Mean 0.009951
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

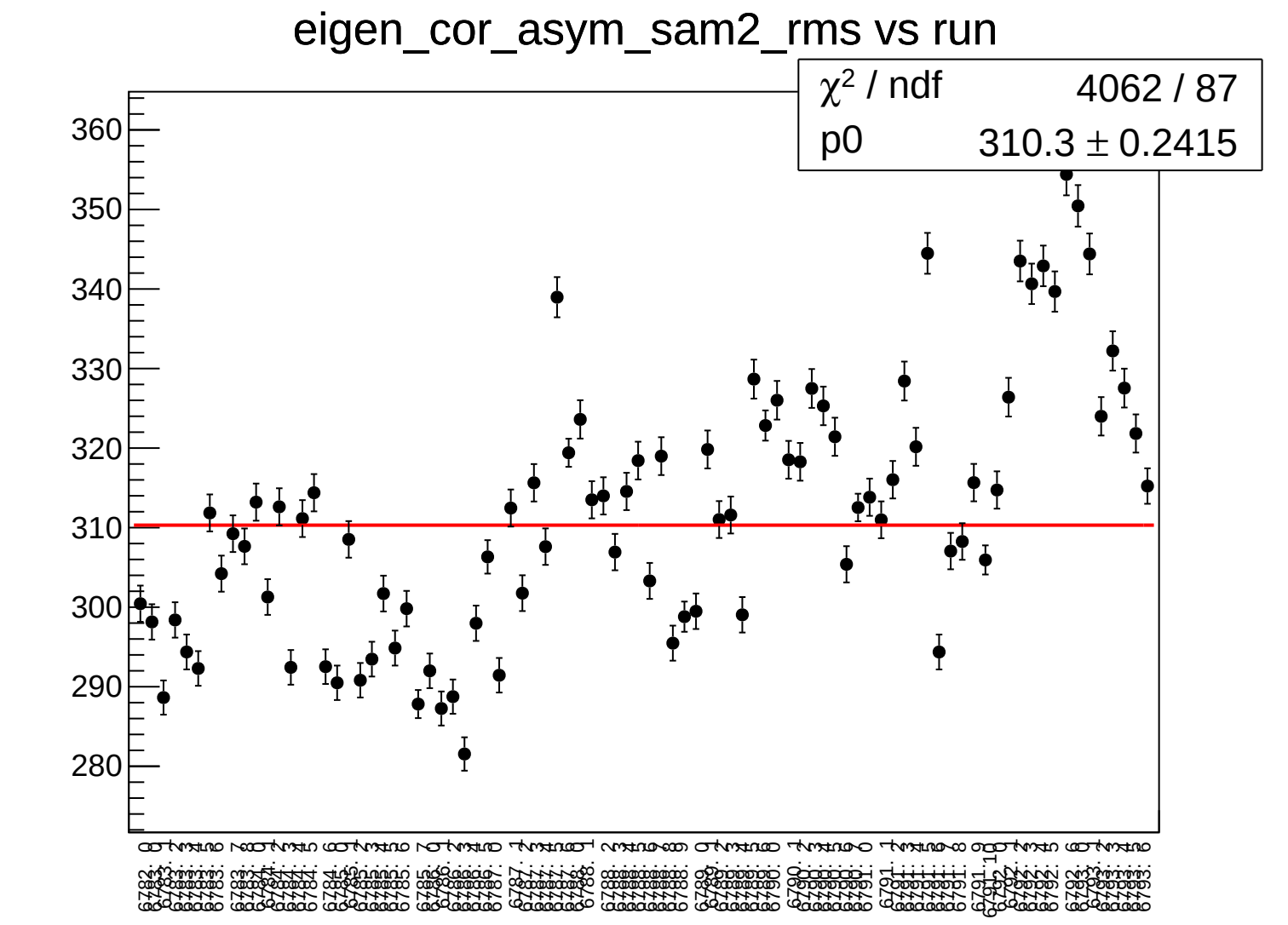

cor_asym_sam2_rms vs run
χ² / ndf 4062 / 87
p0 310.3 ± 0.2415
360
350
340
330
320
310
300
290
280

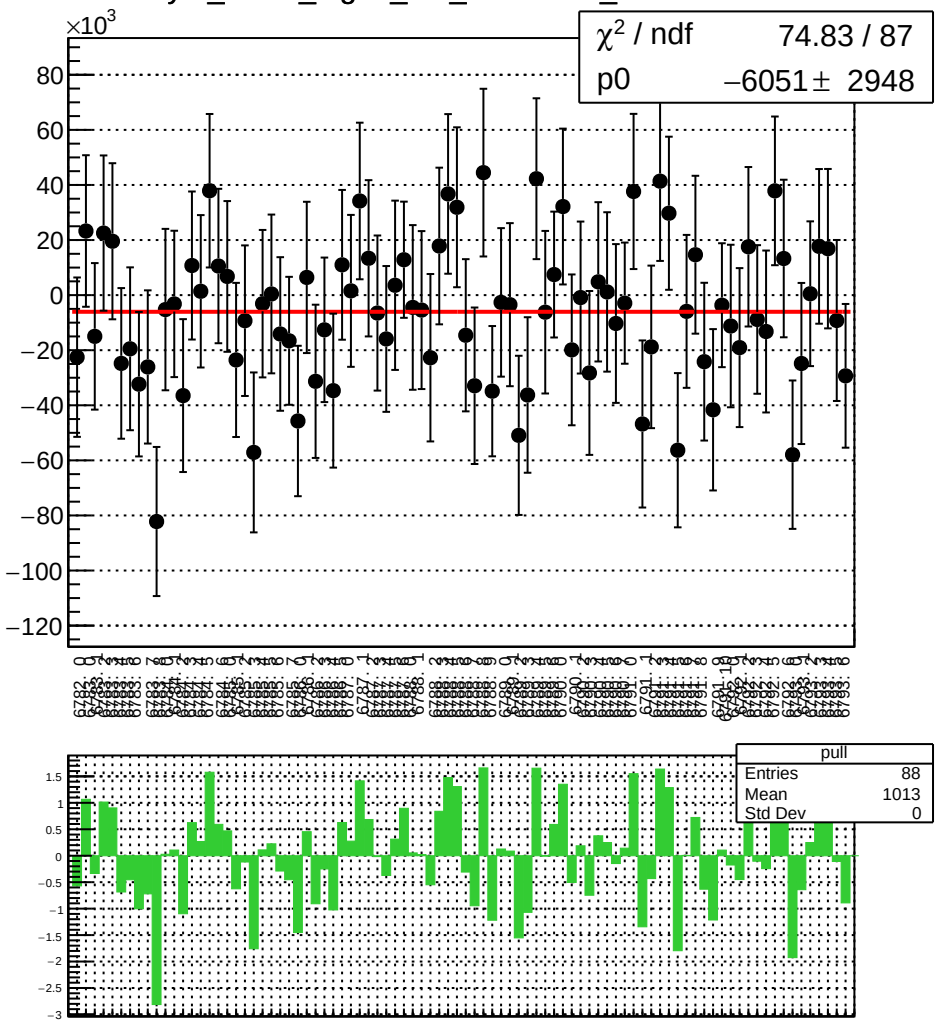

asym_sam2_cor_correction_mean vs run
χ² / ndf 74.83 / 87
p0 −6051 ± 2948
×10³
pull
Entries 88
Mean 1013
Std Dev 0

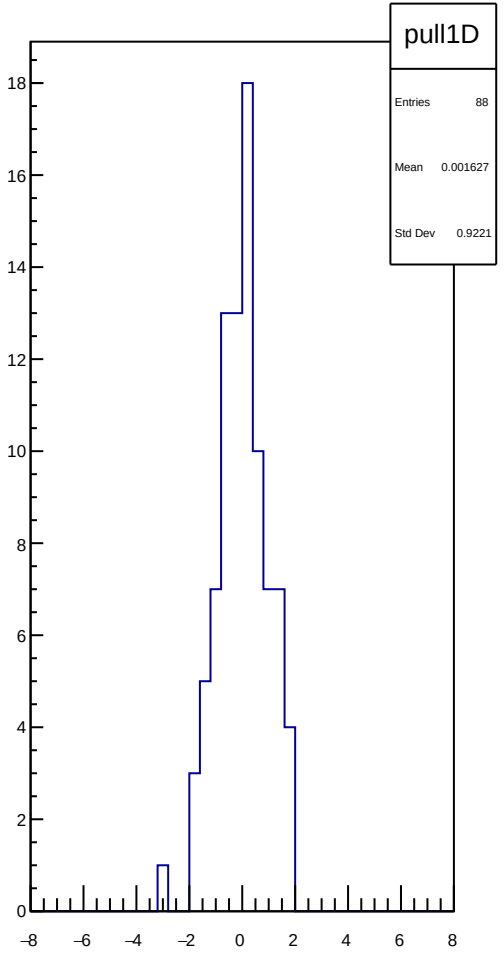

pull1D
Entries 88
Mean 0.001627
Std Dev 0.9221

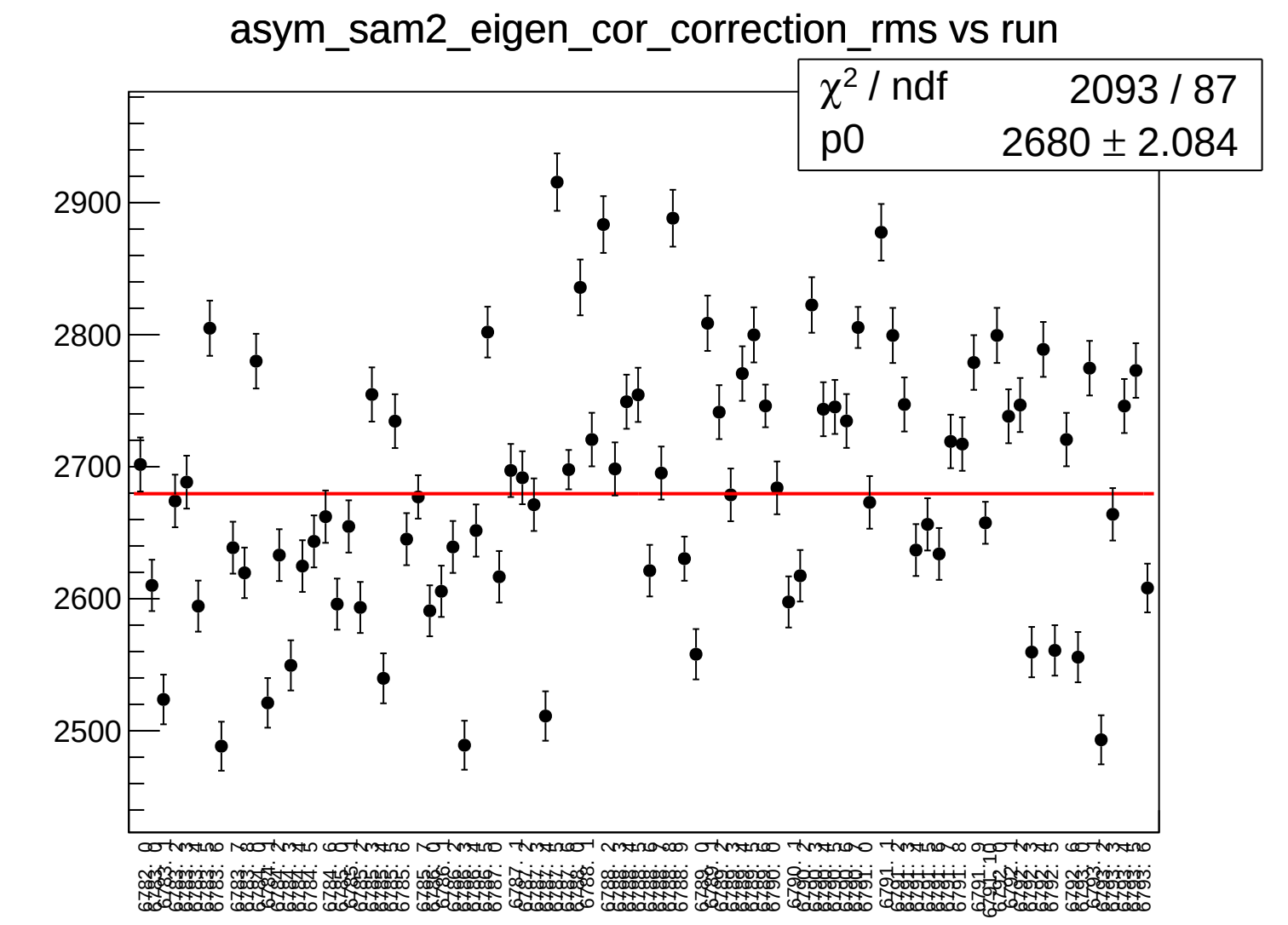

asym_sam2_cor_correction_rms vs run
χ² / ndf 2093 / 87
p0 2680 ± 2.084
2900
2800
2700
2600
2500

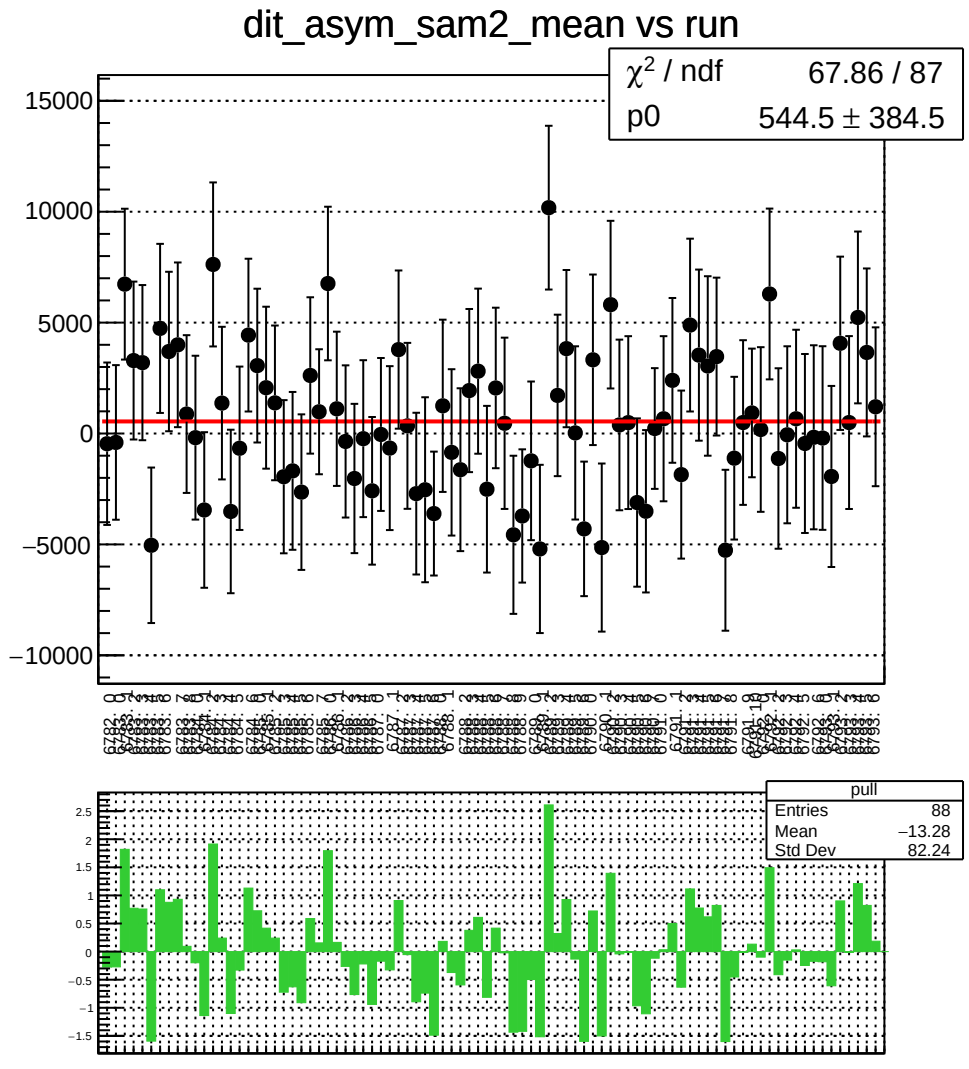

eigen_cor_asym_sam2_mean vs run
χ² / ndf 70.58 / 87
p0 18.33 ± 341.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −8.033
Std Dev 87.7
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.009951
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

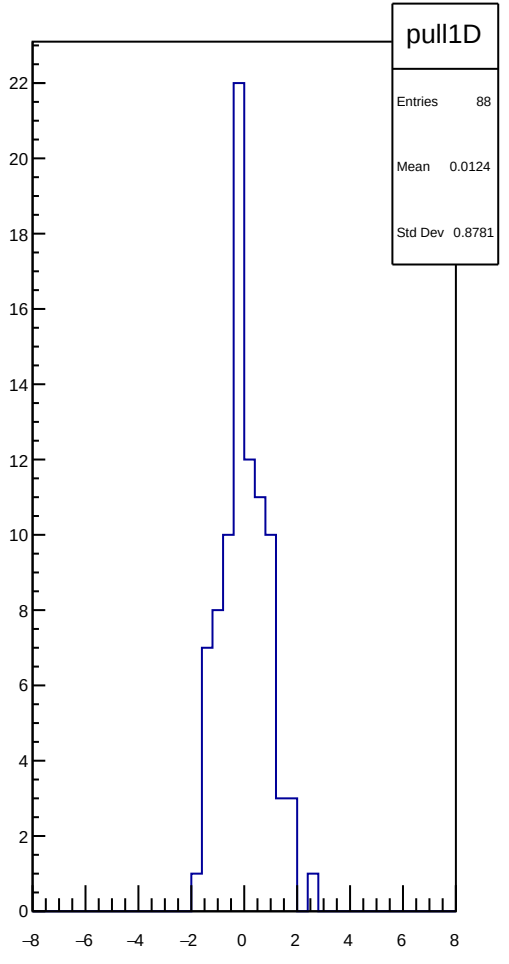

eigen_cor_asym_sam2_rms vs run
χ² / ndf 4062 / 87
p0 310.3 ± 0.2415
360
350
340
330
320
310
300
290
280

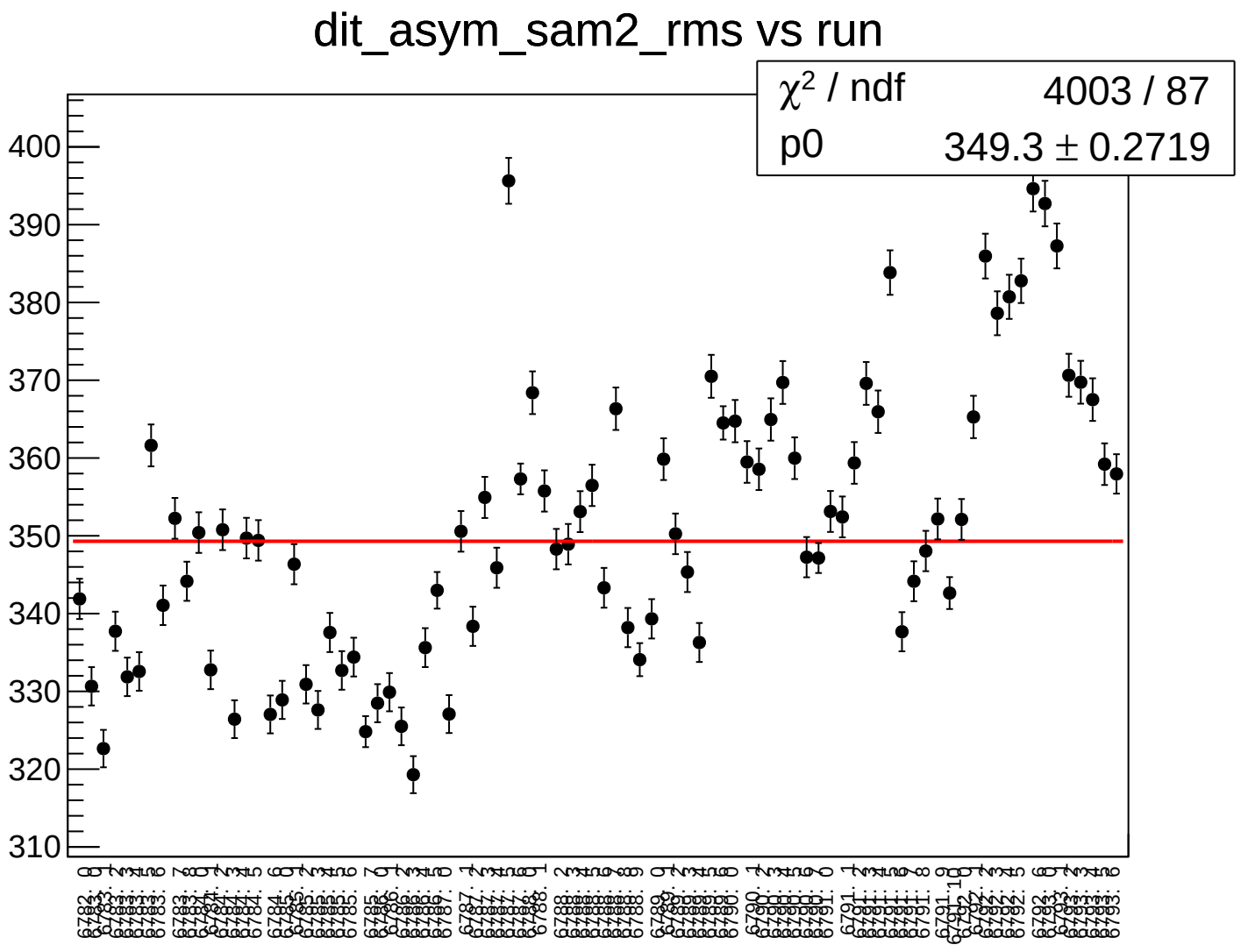

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.83 / 87
p0 −6051 ± 2948
pull
Entries 88
Mean 1013
Std Dev 0

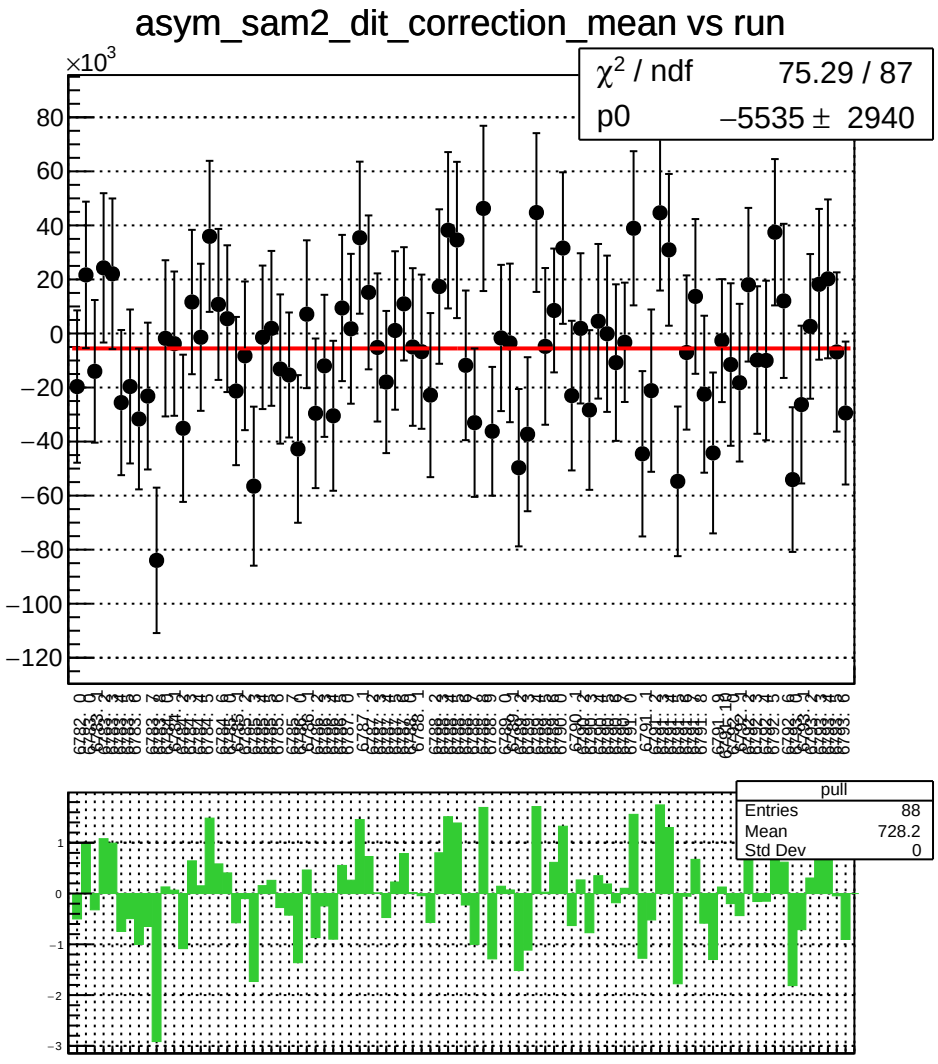

pull1D
Entries 88
Mean 0.001627
Std Dev 0.9221

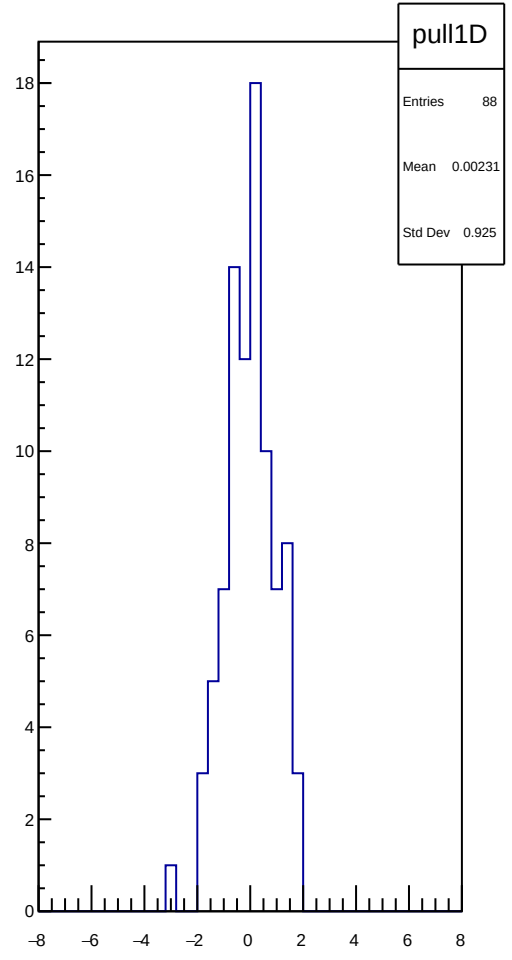

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2093 / 87
p0 2680 ± 2.084
2900
2800
2700
2600
2500

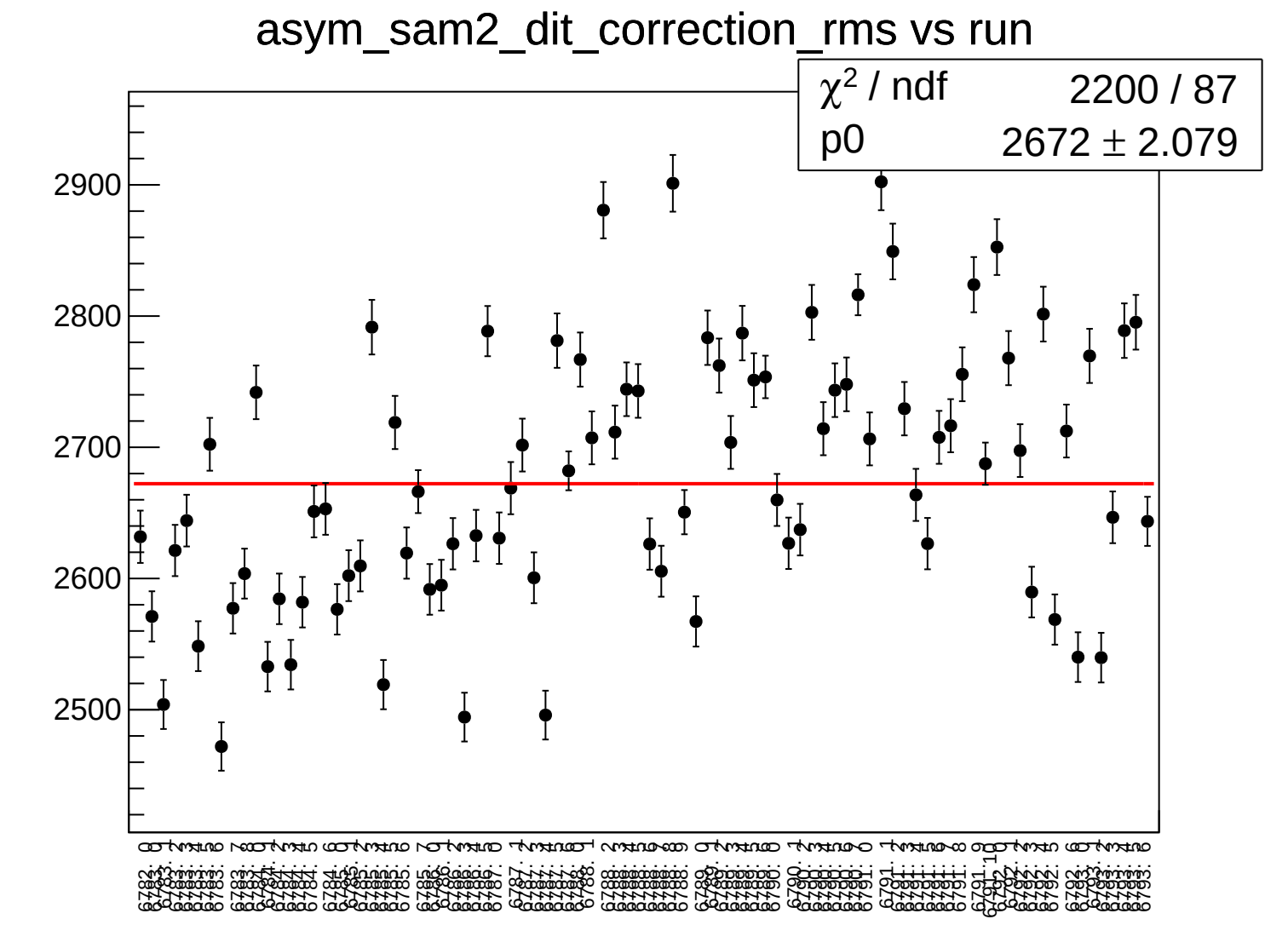

dit_asym_sam2_mean vs run
χ^2 / ndf 67.86 / 87
p0 544.5 ± 384.5
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −13.28
Std Dev 82.24
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

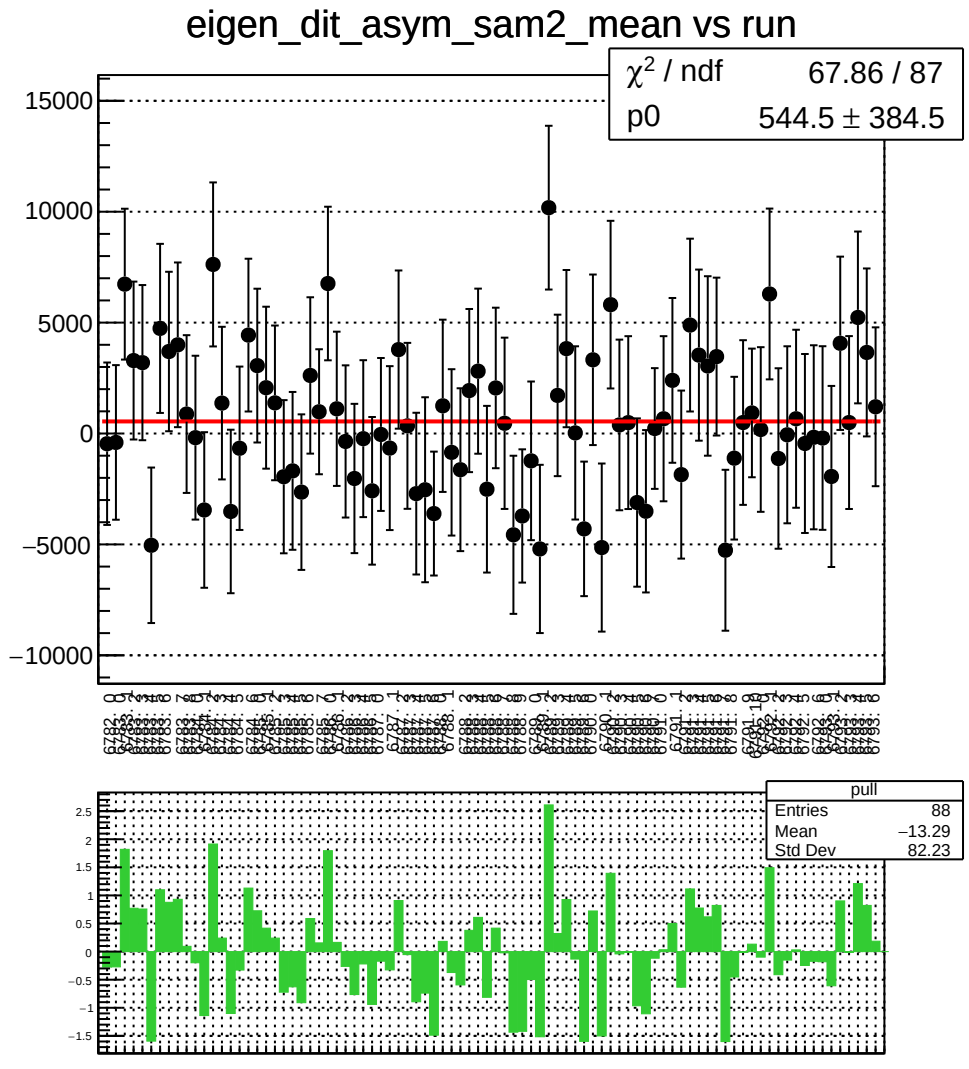

pull1D
Entries 88
Mean 0.0124
Std Dev 0.8781
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

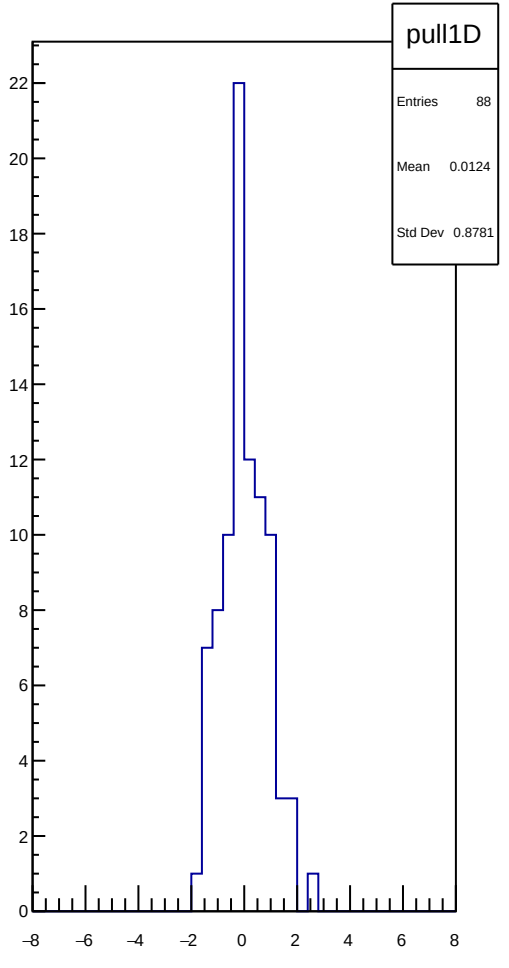

dit_asym_sam2_rms vs run
χ² / ndf 4003 / 87
p0 349.3 ± 0.2719
400
390
380
370
360
350
340
330
320
310

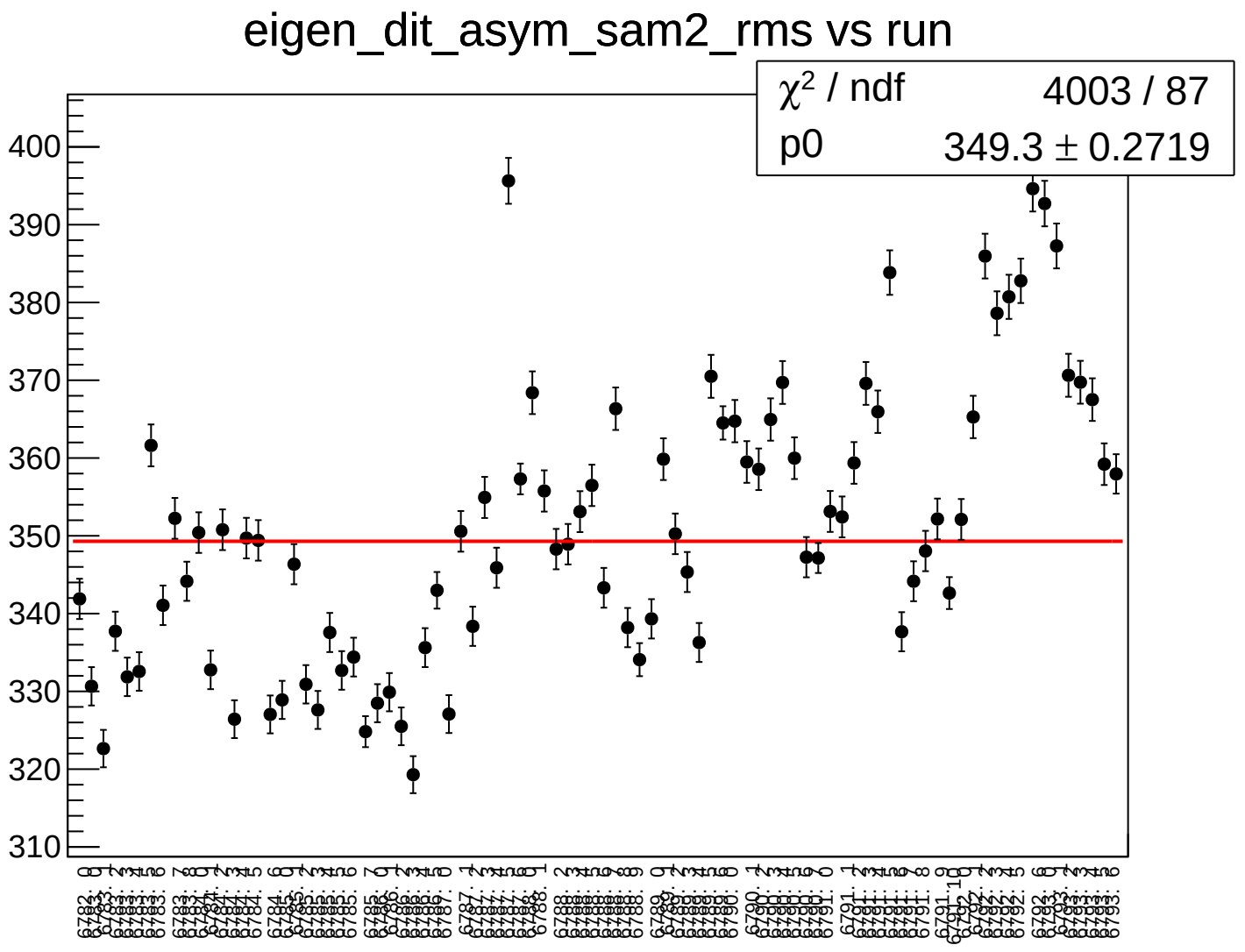

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 75.29 / 87
p0 −5535 ± 2940
pull
Entries 88
Mean 728.2
Std Dev 0

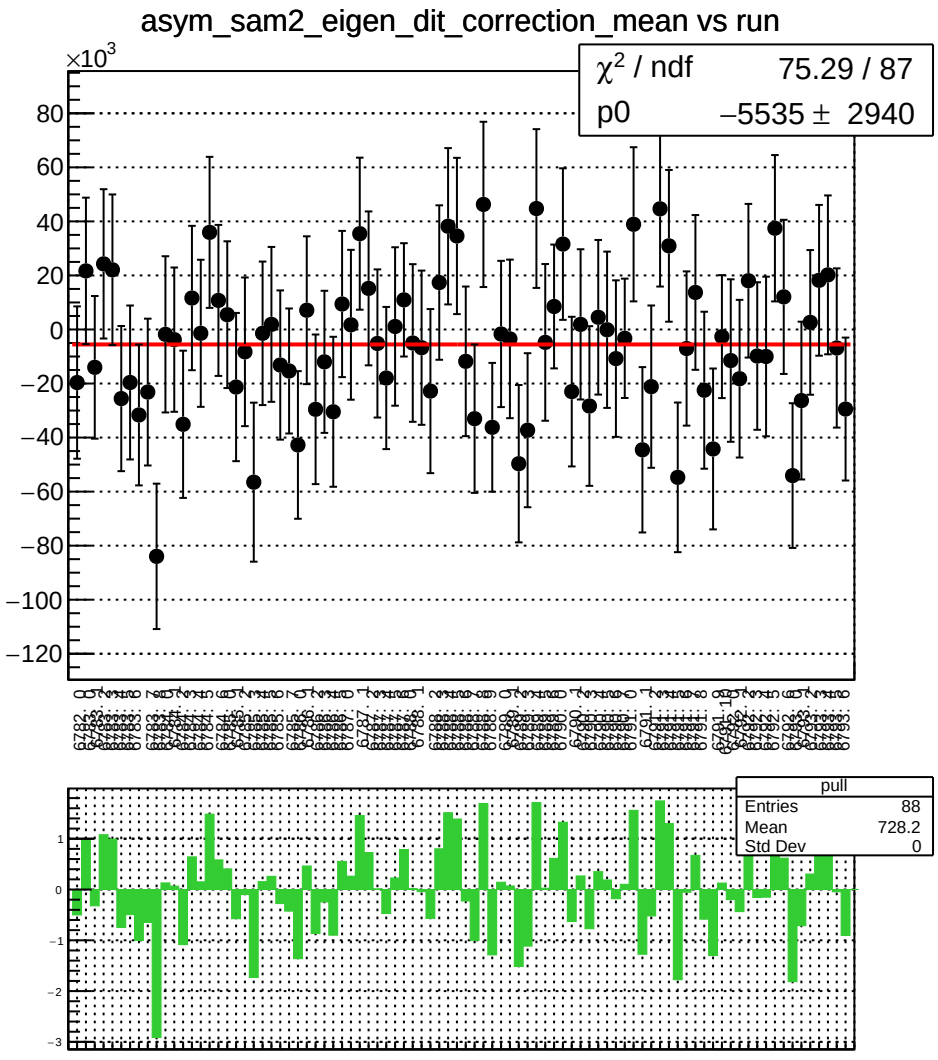

pull1D
Entries 88
Mean 0.00231
Std Dev 0.925

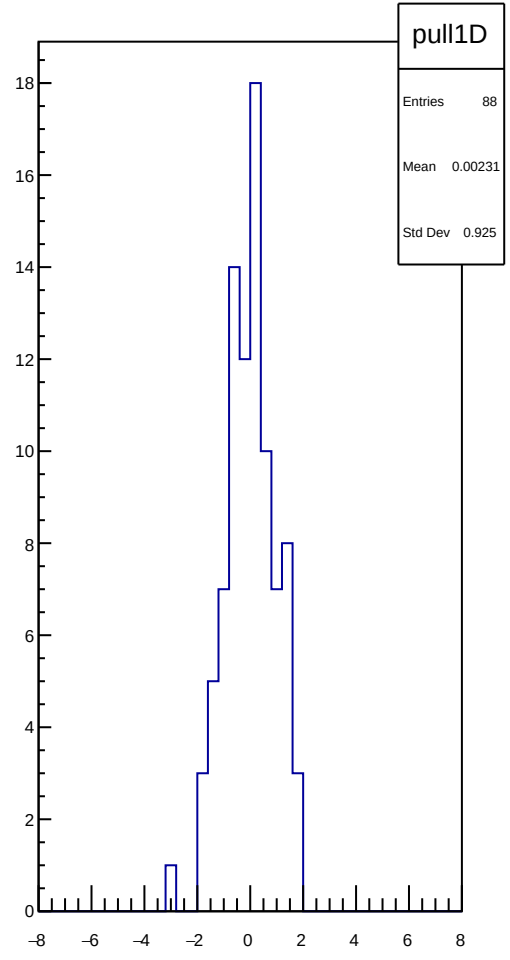

asym_sam2_dit_correction_rms vs run
χ² / ndf 2200 / 87
p0 2672 ± 2.079
2900
2800
2700
2600
2500

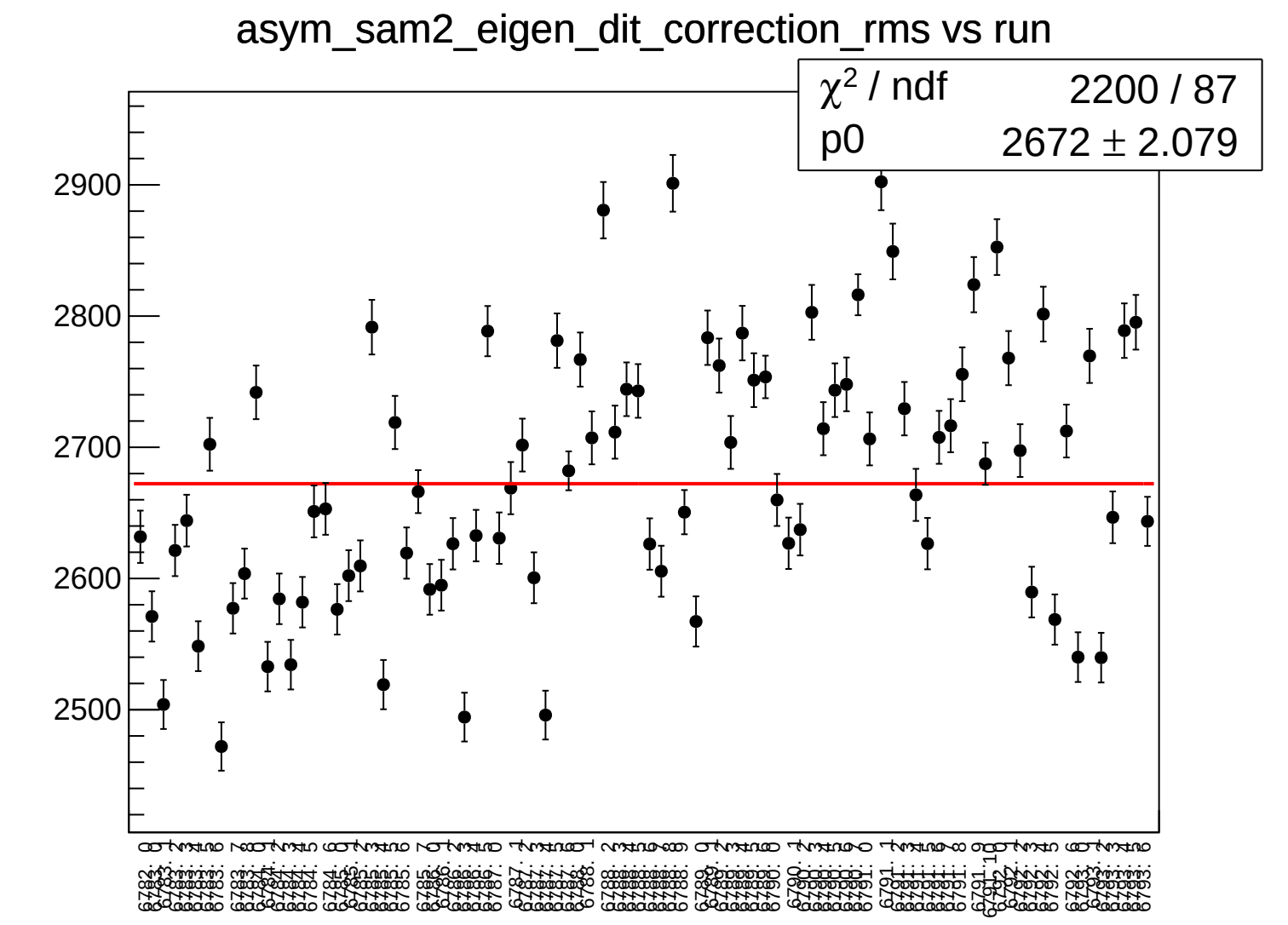

eigen_dit_asym_sam2_mean vs run
χ^2 / ndf 67.86 / 87
p0 544.5 ± 384.5
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −13.29
Std Dev 82.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

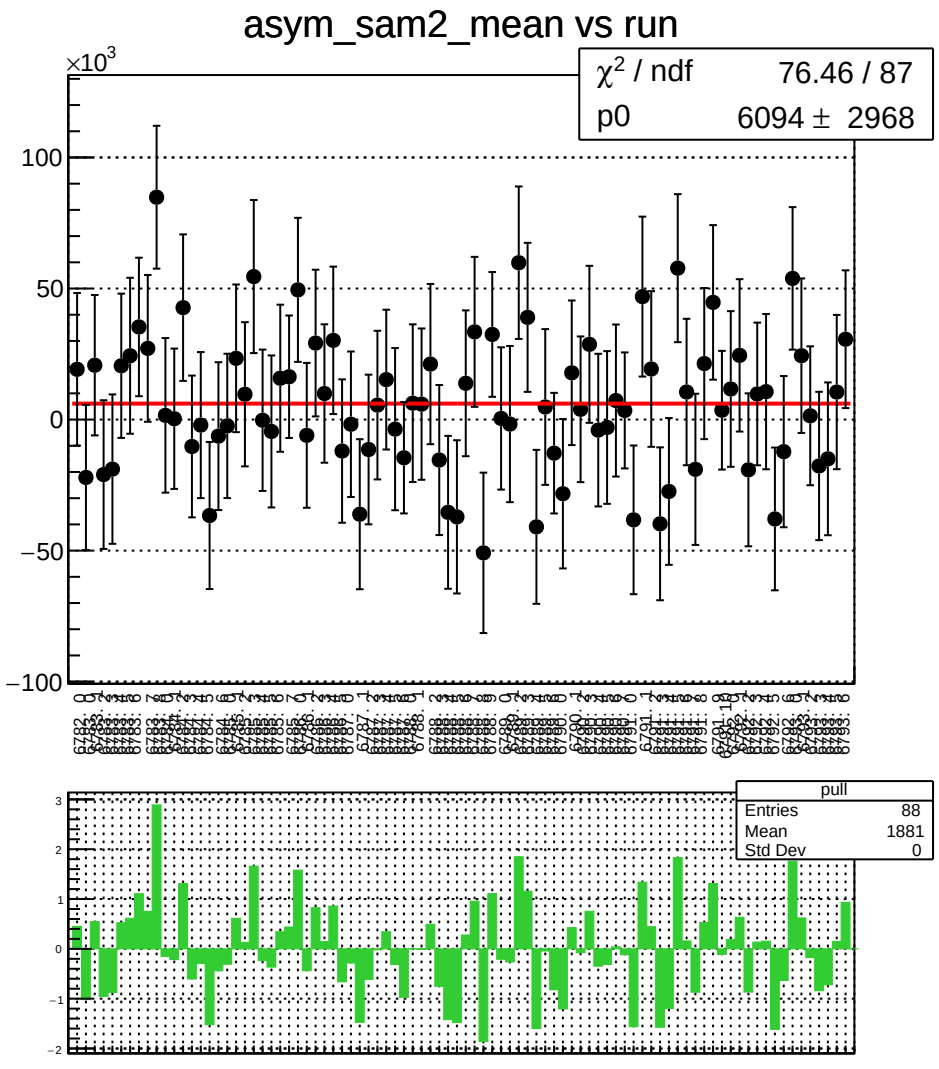

pull1D
Entries 88
Mean 0.0124
Std Dev 0.8781
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

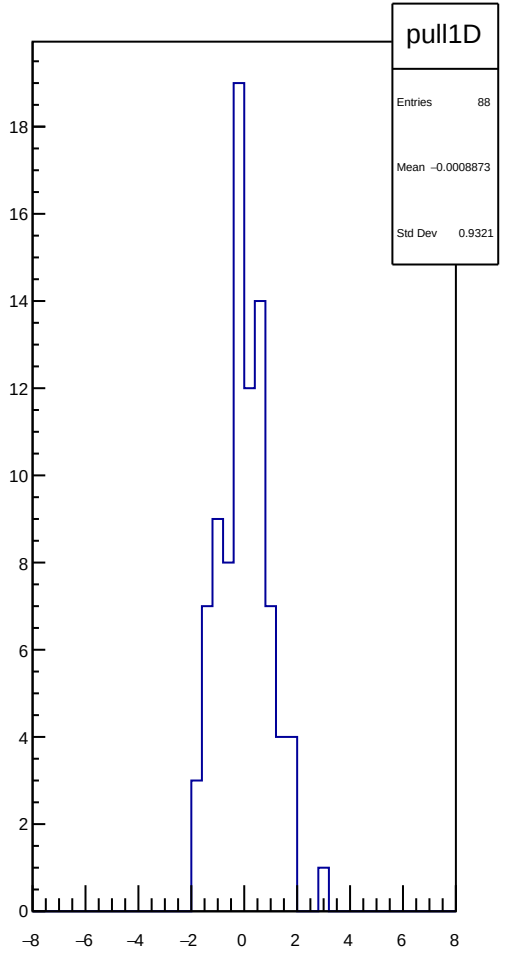

eigen_dit_asym_sam2_rms vs run
χ² / ndf 4003 / 87
p0 349.3 ± 0.2719
400
390
380
370
360
350
340
330
320
310

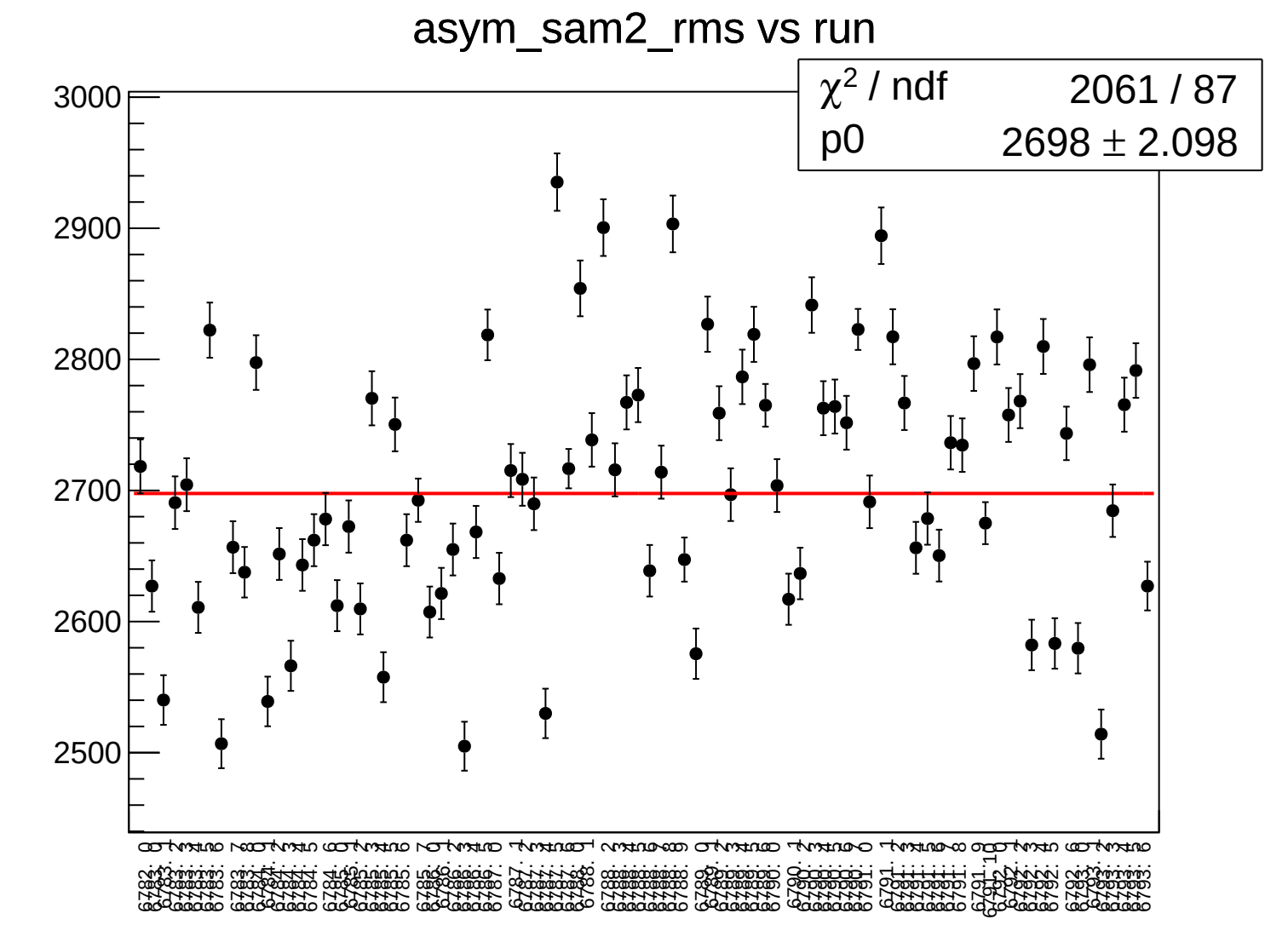

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.29 / 87
p0 −5535 ± 2940
pull
Entries 88
Mean 728.2
Std Dev 0

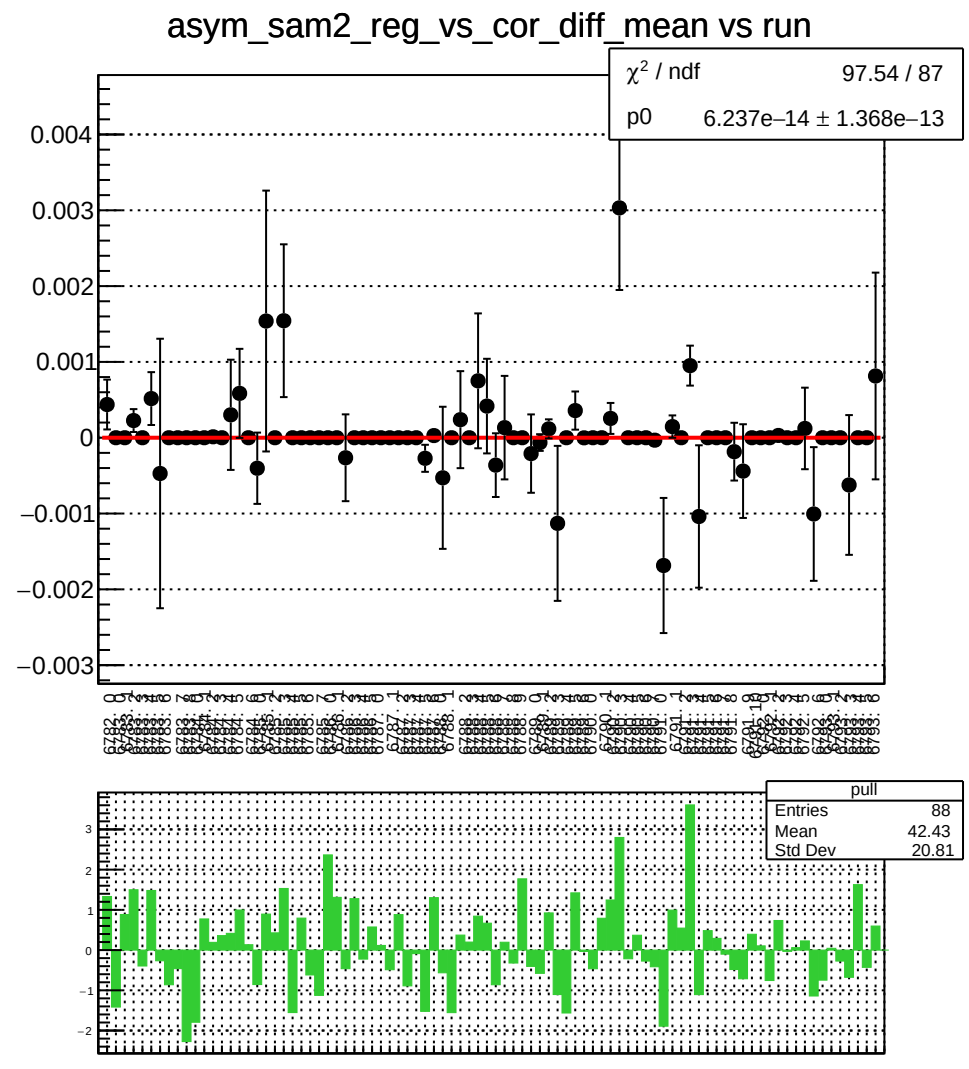

pull1D
Entries 88
Mean 0.00231
Std Dev 0.925

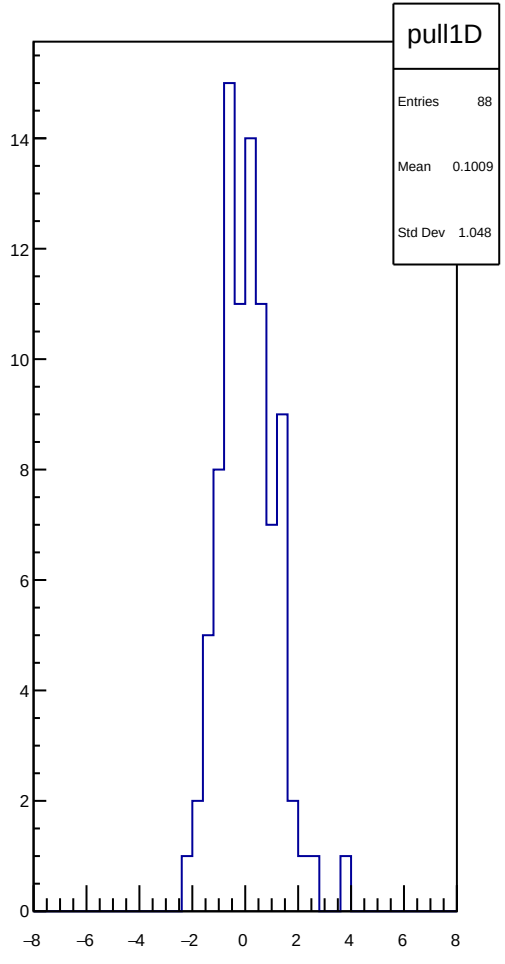

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2200 / 87
p0 2672 ± 2.079
2900
2800
2700
2600
2500

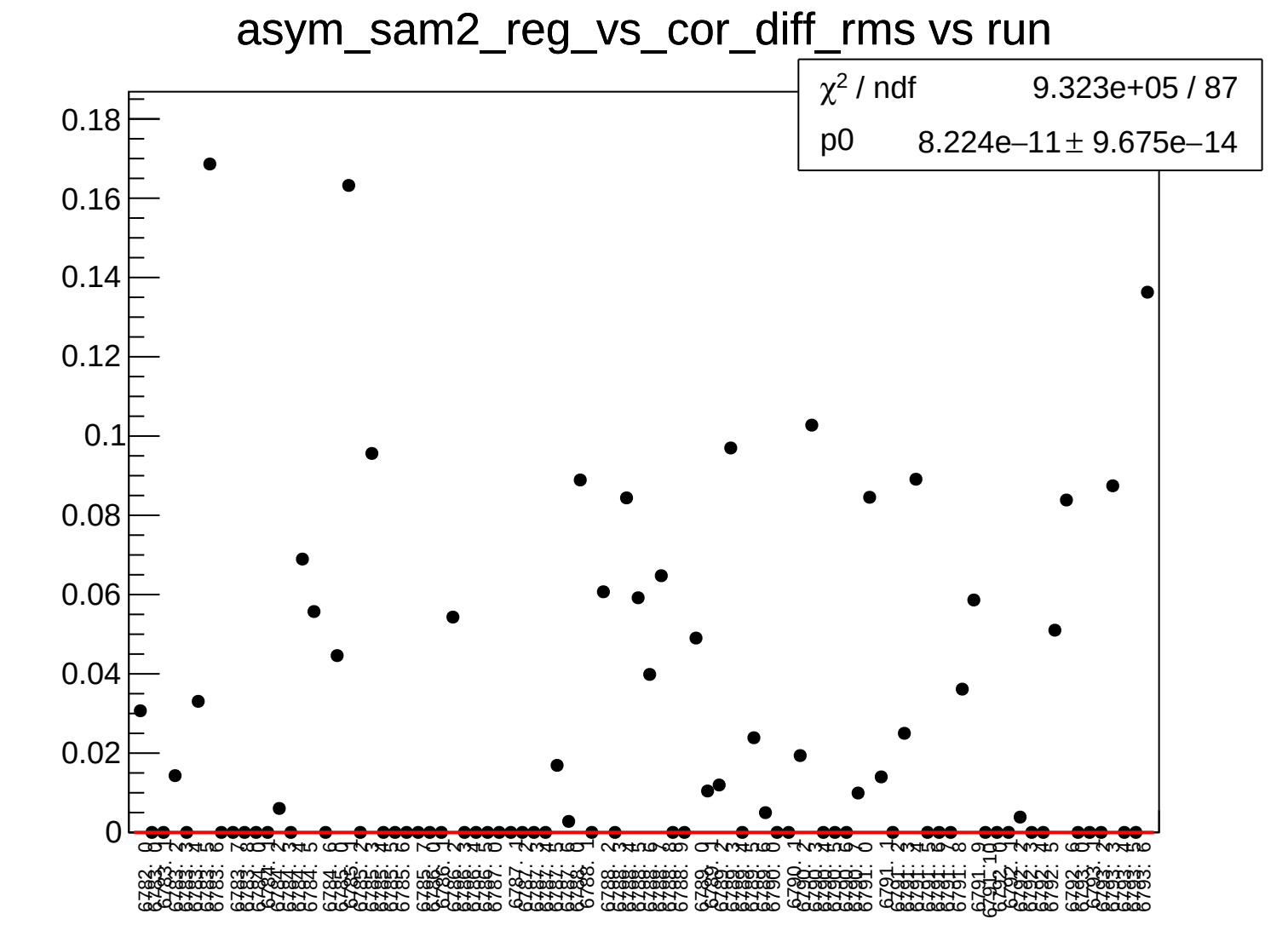

asym_sam2_mean vs run
×10^3
χ^2 / ndf 76.46 / 87
p0 6094 ± 2968
100
50
0
−50
−100
pull
Entries 88
Mean 1881
Std Dev 0
3
2
1
0
−1
−2

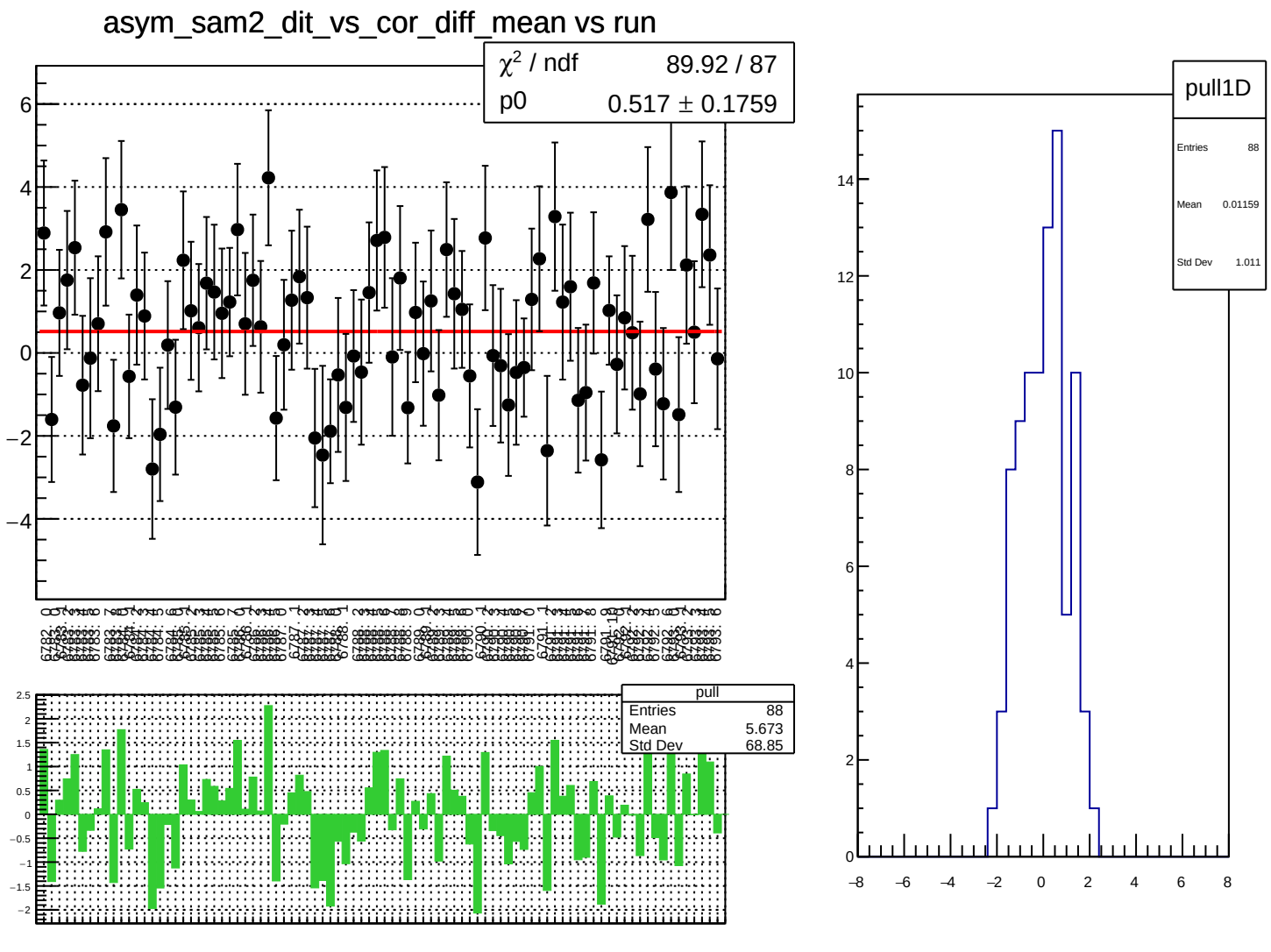

pull1D
Entries 88
Mean −0.0008873
Std Dev 0.9321
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

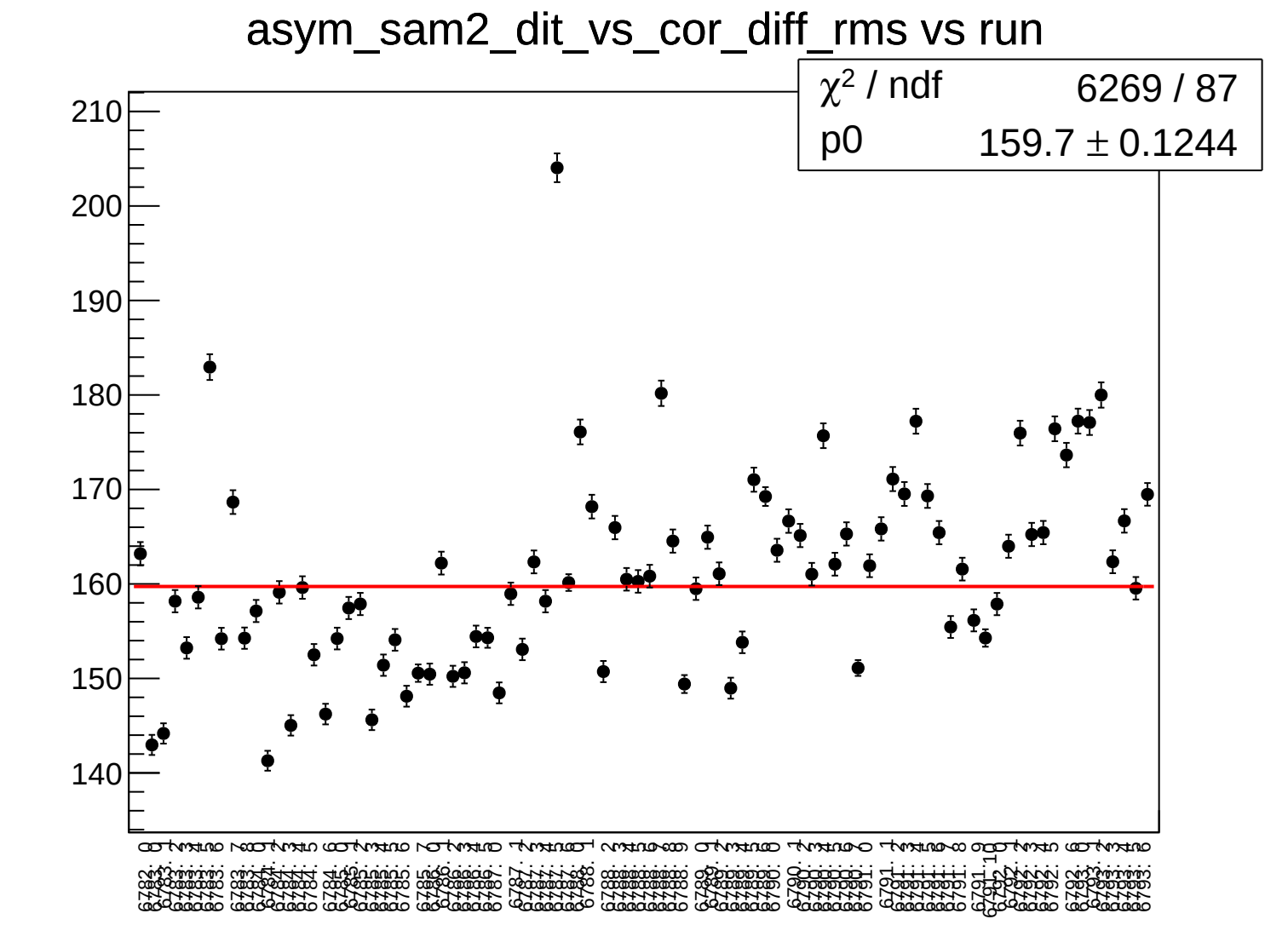

asym_sam2_rms vs run
χ² / ndf 2061 / 87
p0 2698 ± 2.098
3000
2900
2800
2700
2600
2500

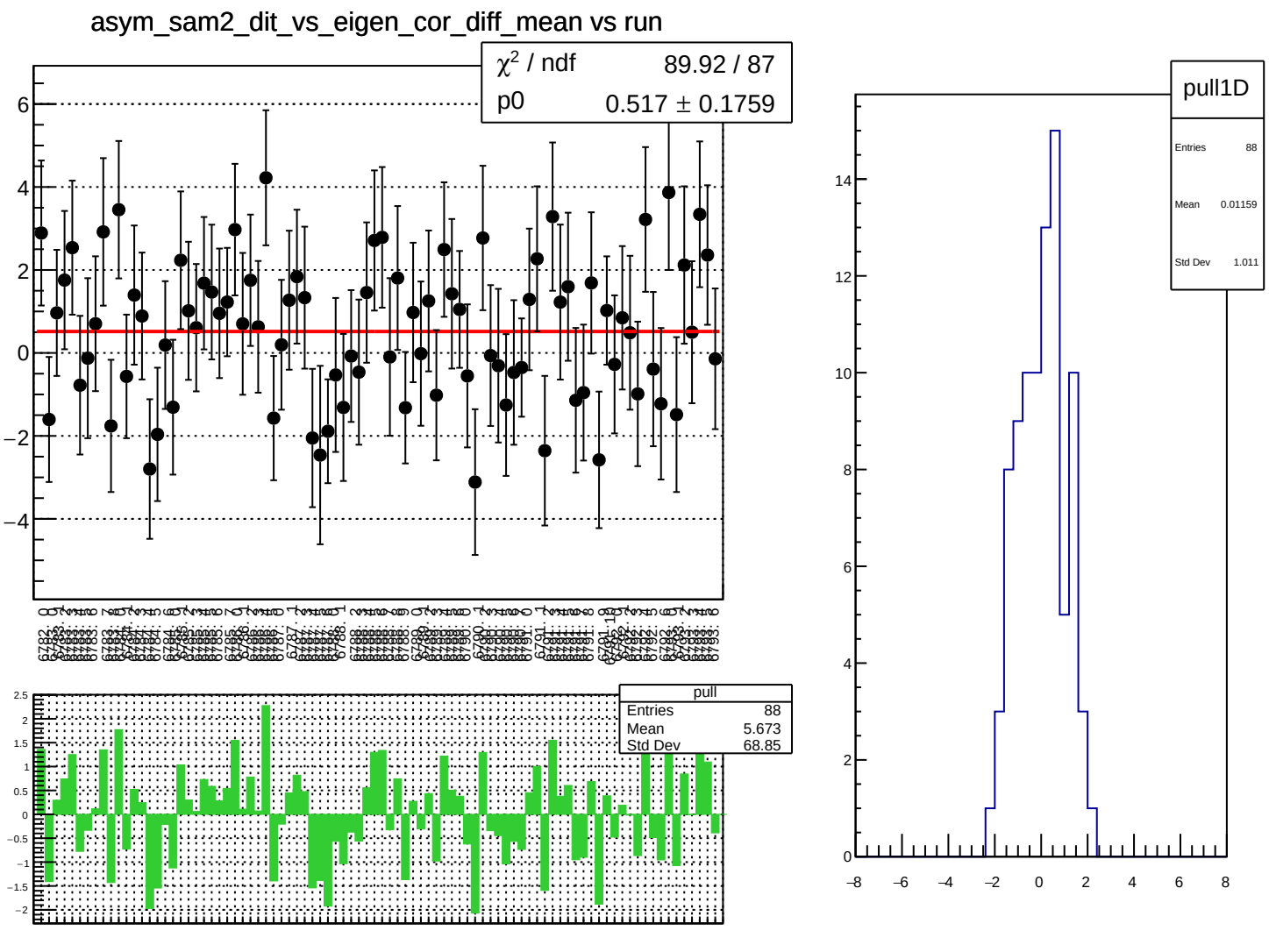

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 97.54 / 87
p0 6.237e−14 ± 1.368e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean 42.43
Std Dev 20.81
3
2
1
0
−1
−2

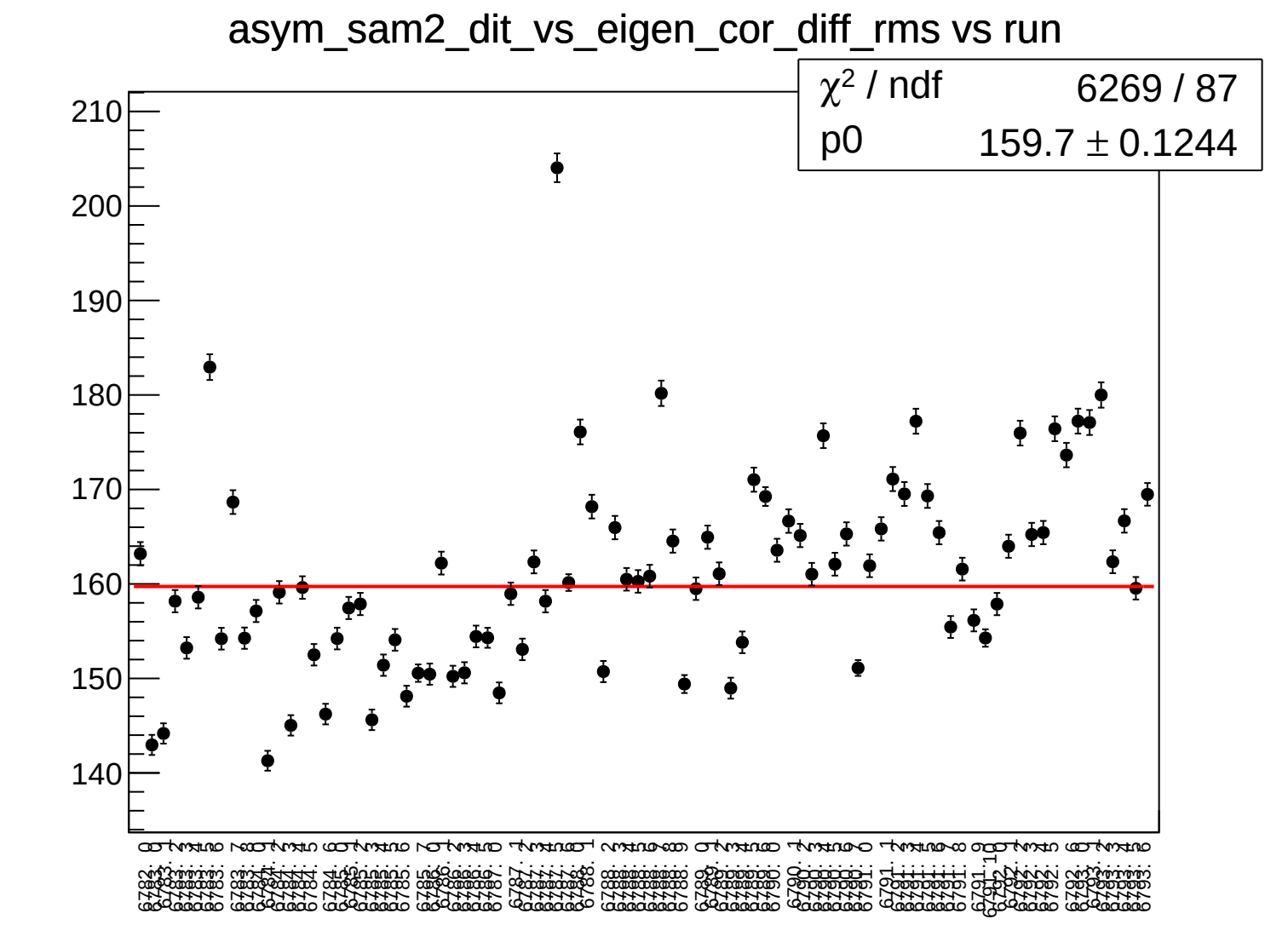

pull1D
Entries 88
Mean 0.1009
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

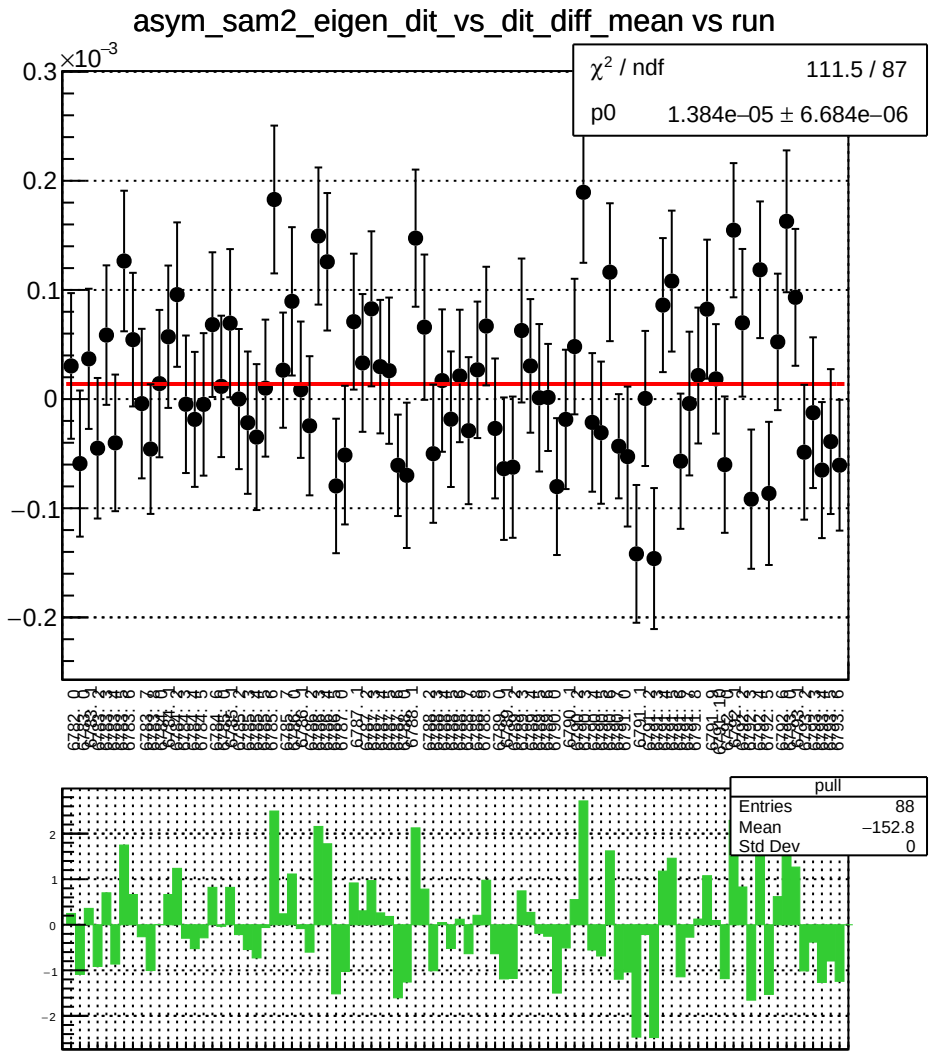

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.323e+05 / 87
p0 8.224e−11 ± 9.675e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

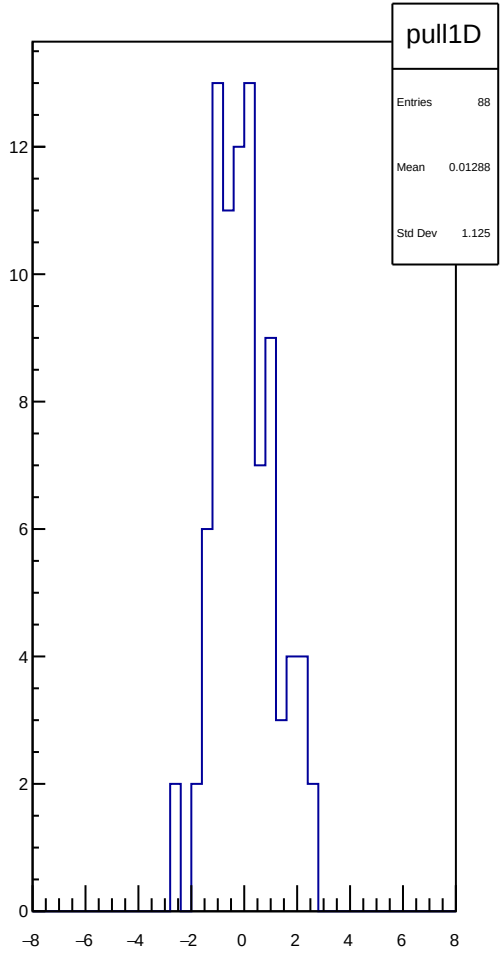

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 89.92 / 87
p0 0.517 ± 0.1759
pull
Entries 88
Mean 5.673
Std Dev 68.85
pull1D
Entries 88
Mean 0.01159
Std Dev 1.011

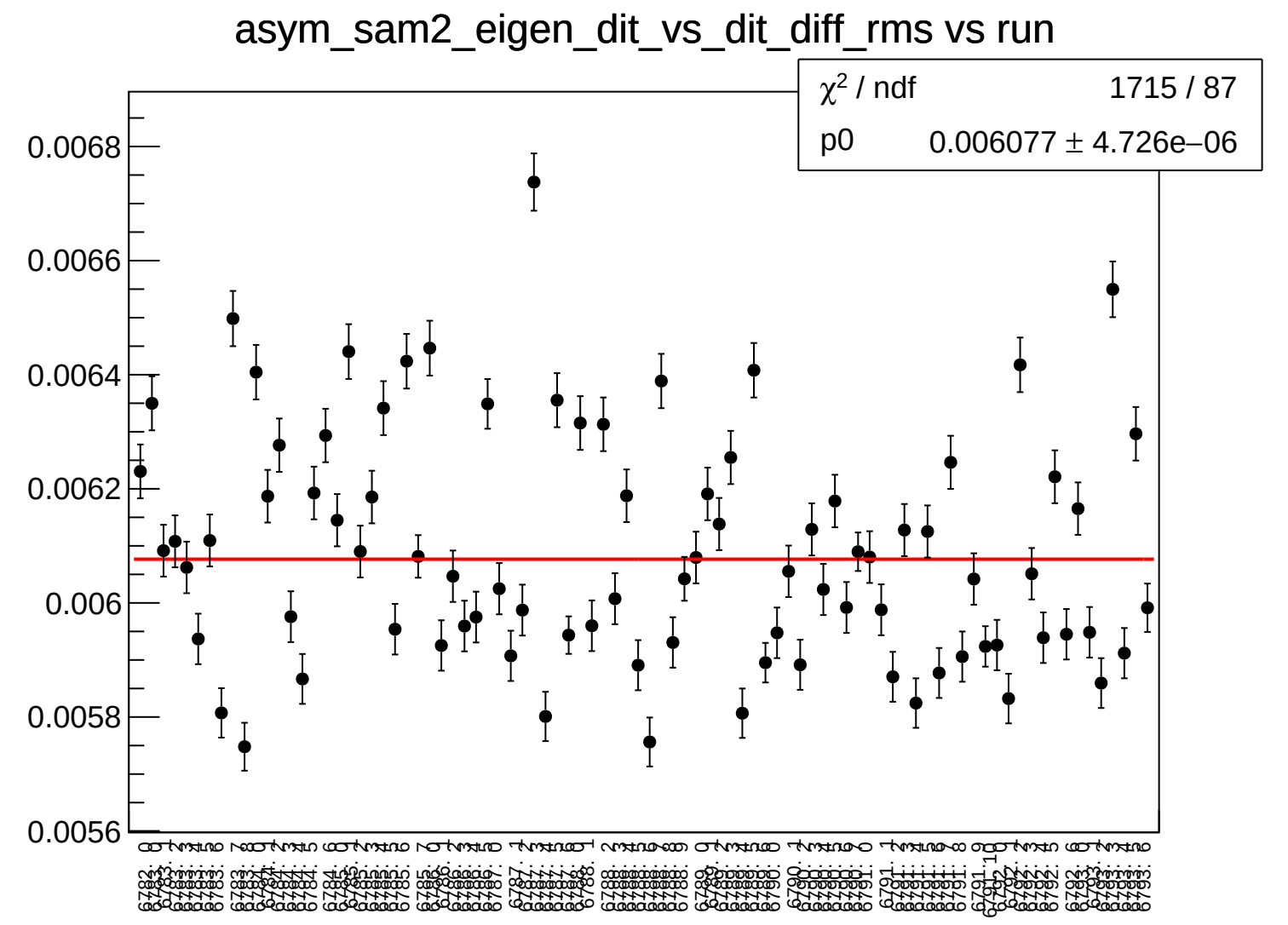

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 6269 / 87
p0 159.7 ± 0.1244
210
200
190
180
170
160
150
140

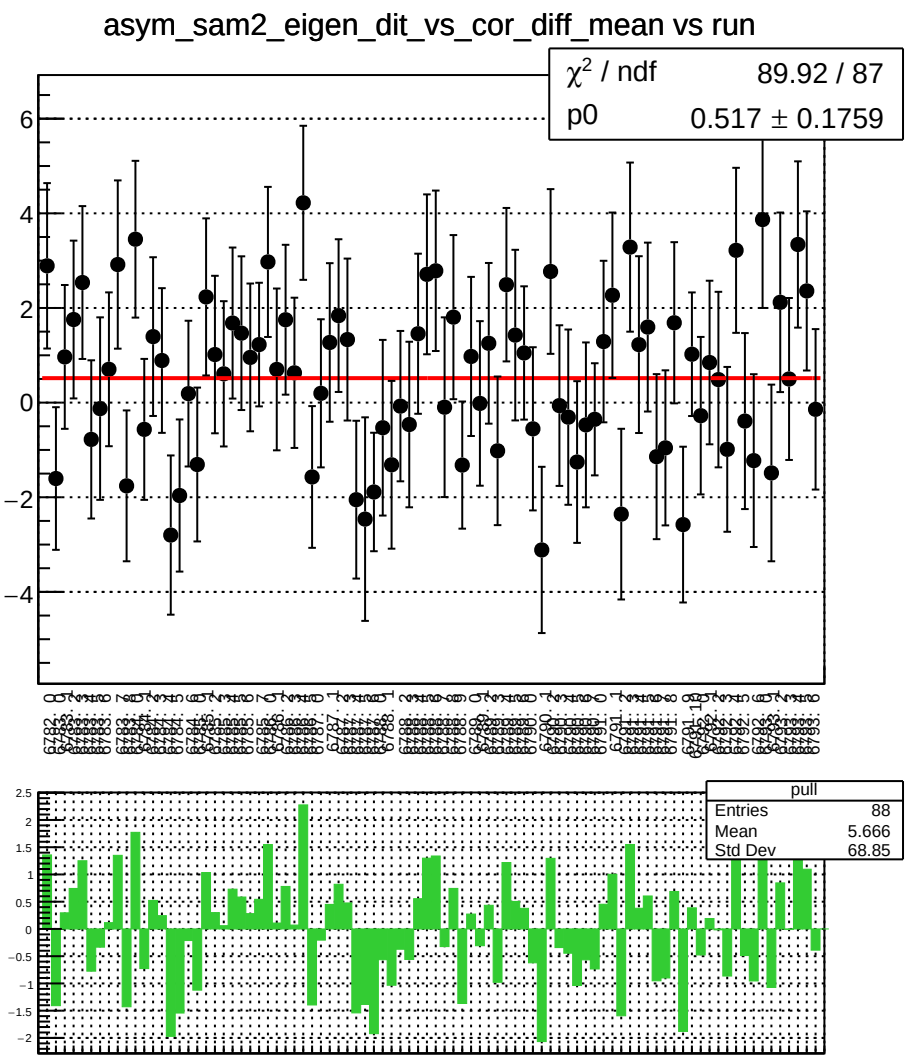

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.92 / 87
p0 0.517 ± 0.1759
pull
Entries 88
Mean 5.673
Std Dev 68.85
pull1D
Entries 88
Mean 0.01159
Std Dev 1.011

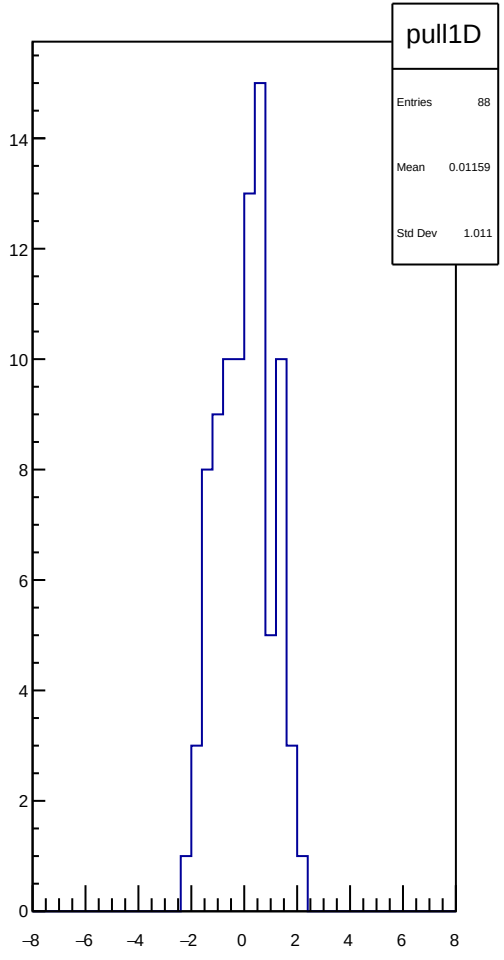

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6269 / 87
p0 159.7 ± 0.1244
210
200
190
180
170
160
150
140

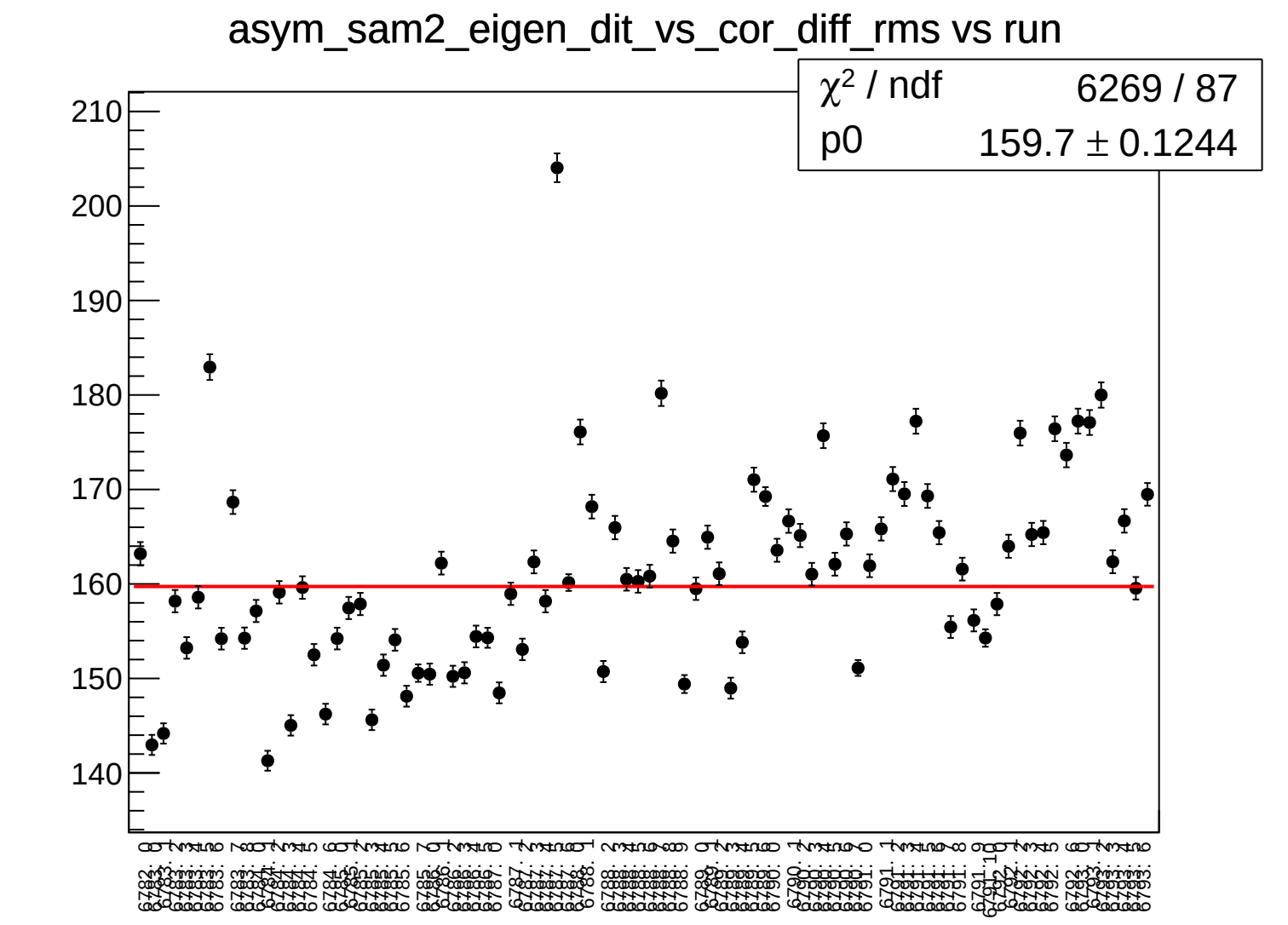

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.5 / 87
p0 1.384e−05 ± 6.684e−06
pull
Entries 88
Mean −152.8
Std Dev 0

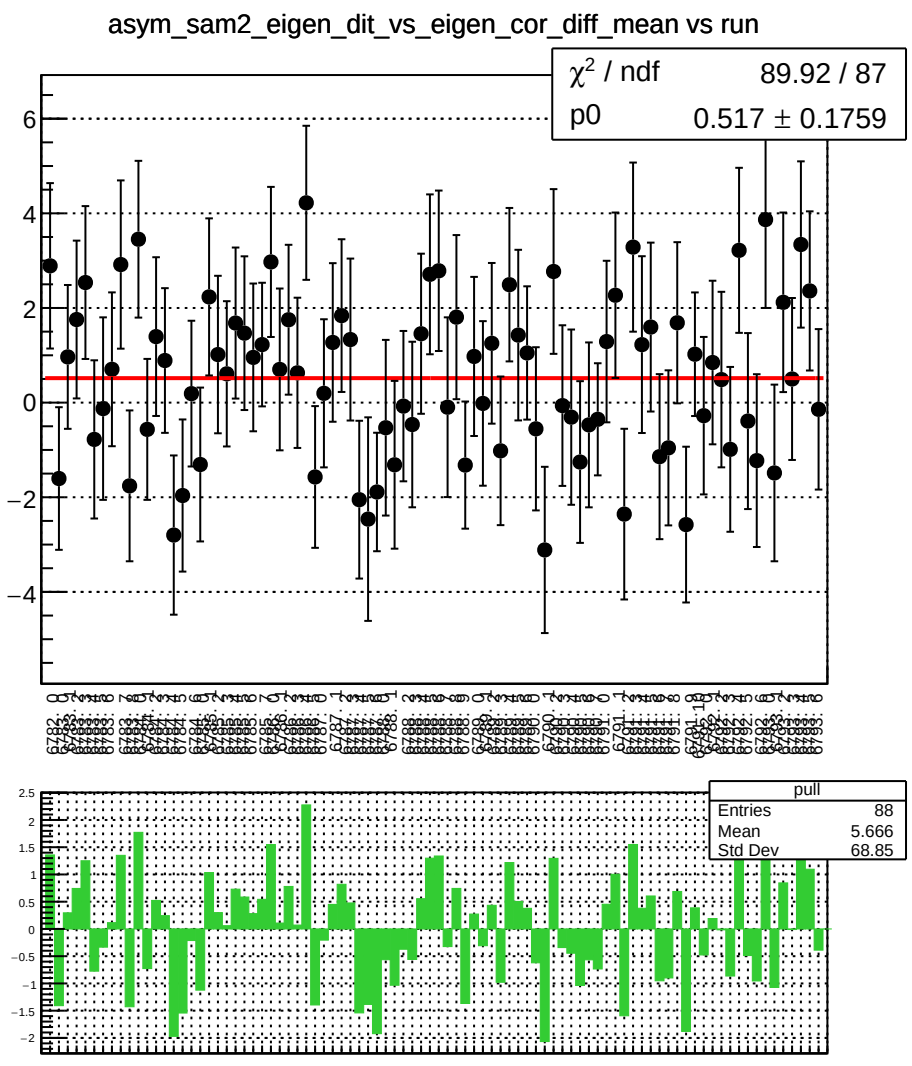

pull1D
Entries 88
Mean 0.01288
Std Dev 1.125

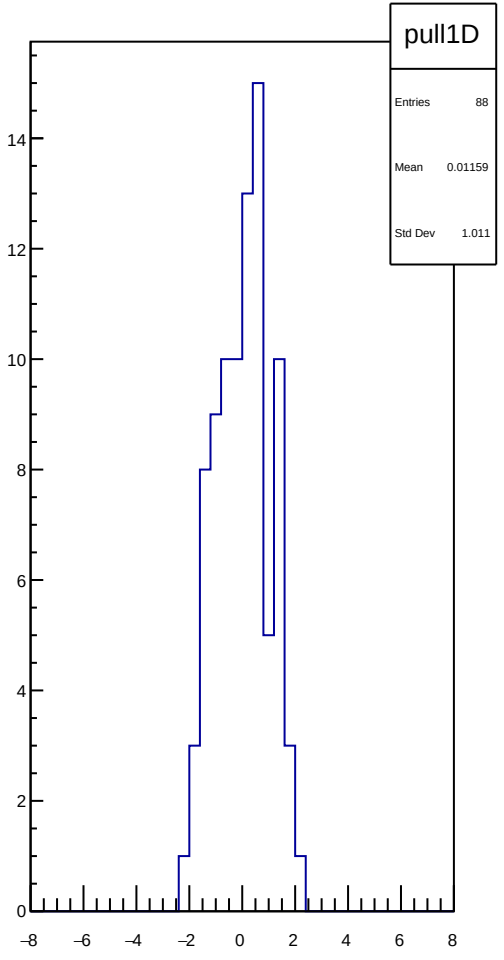

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1715 / 87
p0 0.006077 ± 4.726e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

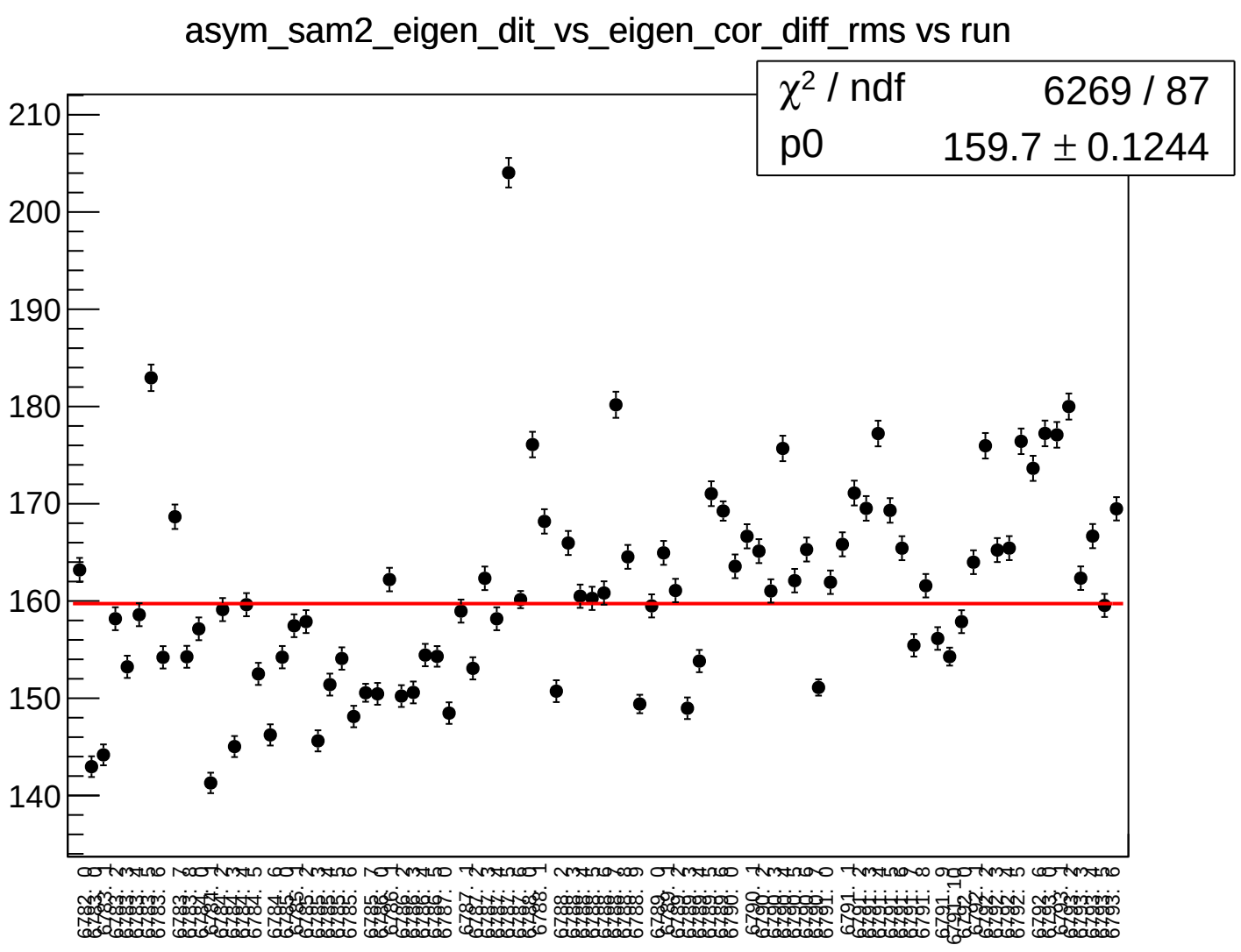

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.92 / 87
p0 0.517 ± 0.1759
pull
Entries 88
Mean 5.666
Std Dev 68.85

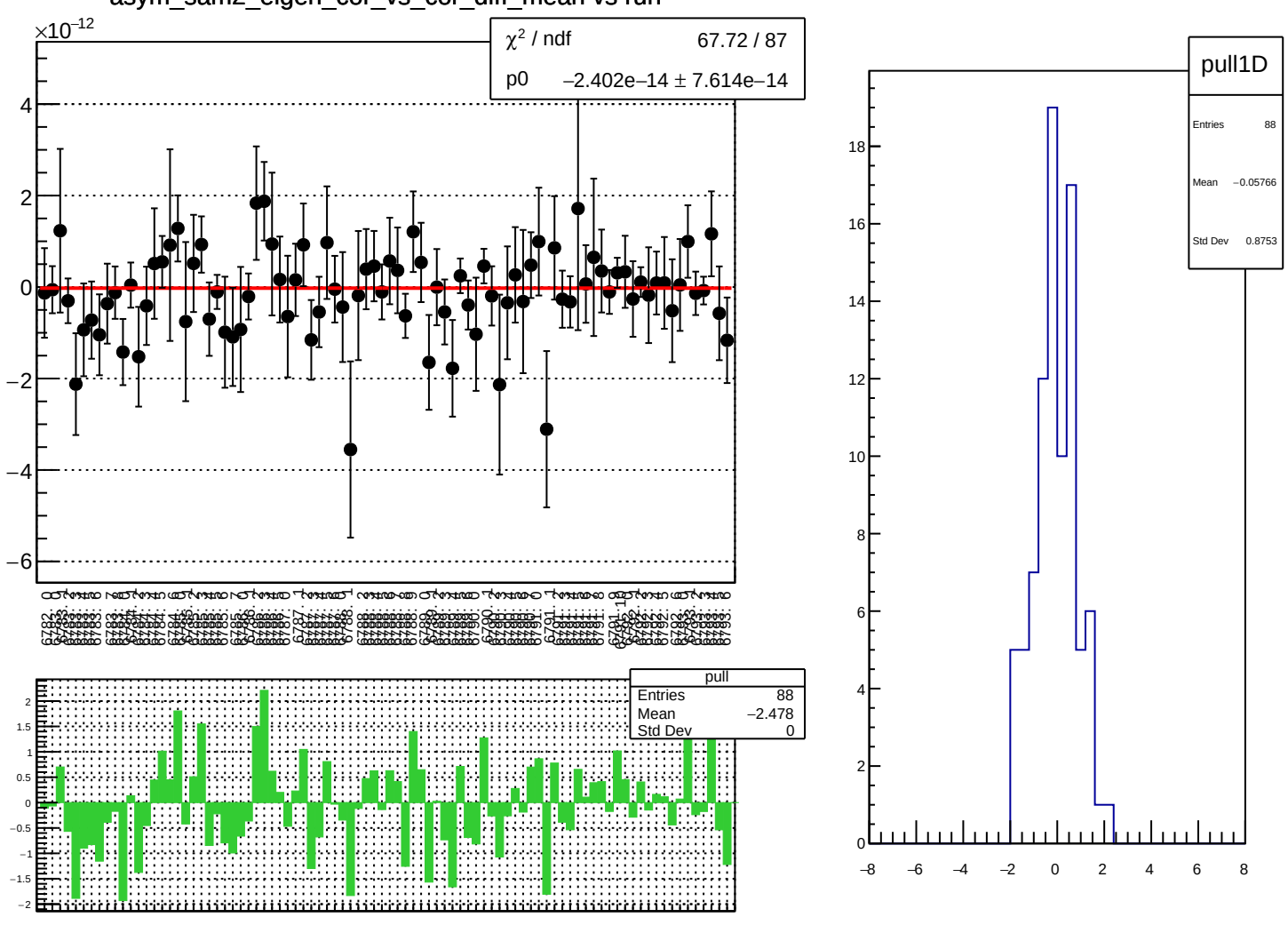

pull1D
Entries 88
Mean 0.01159
Std Dev 1.011

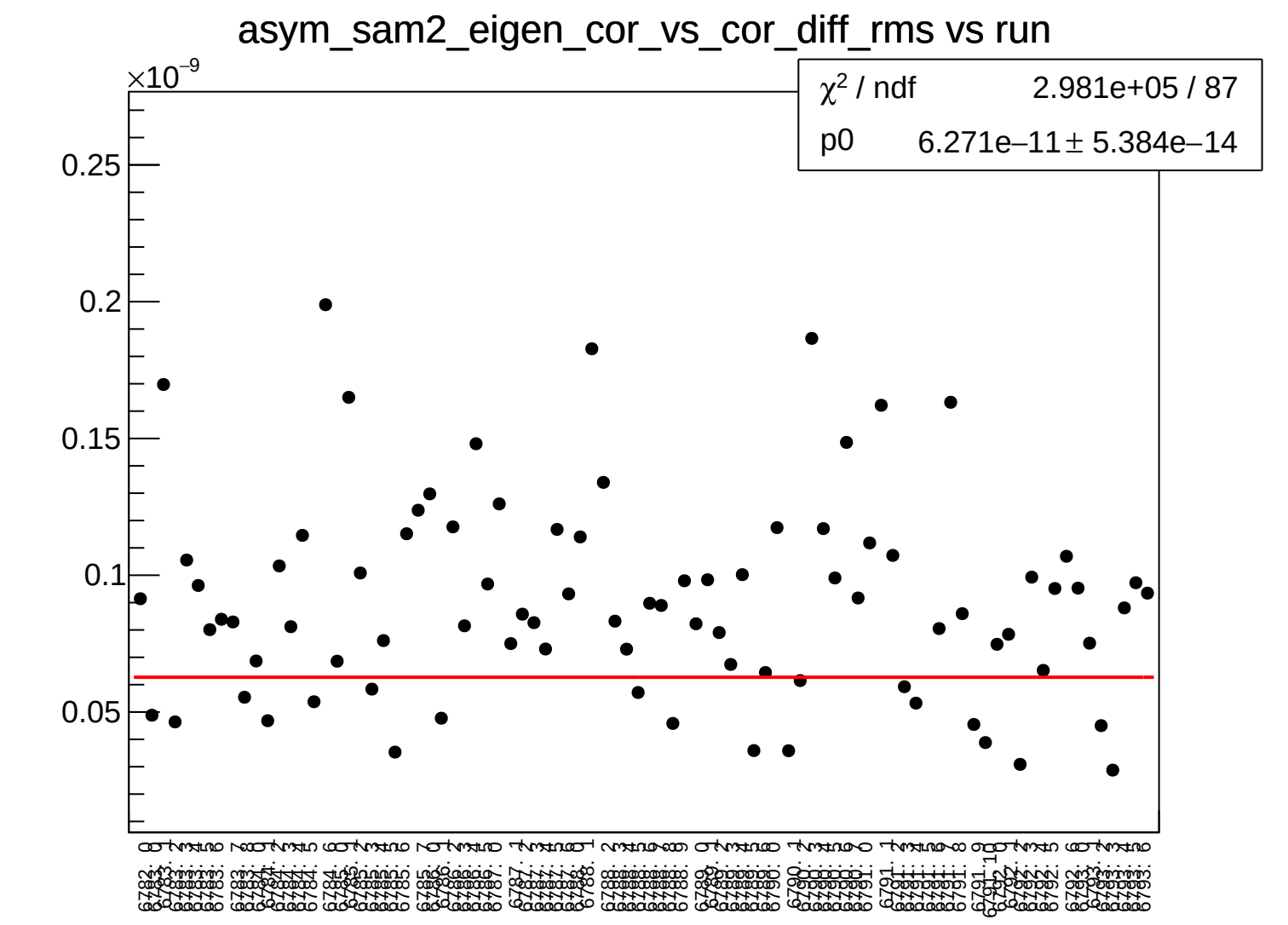

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6269 / 87
p0 159.7 ± 0.1244
210
200
190
180
170
160
150
140

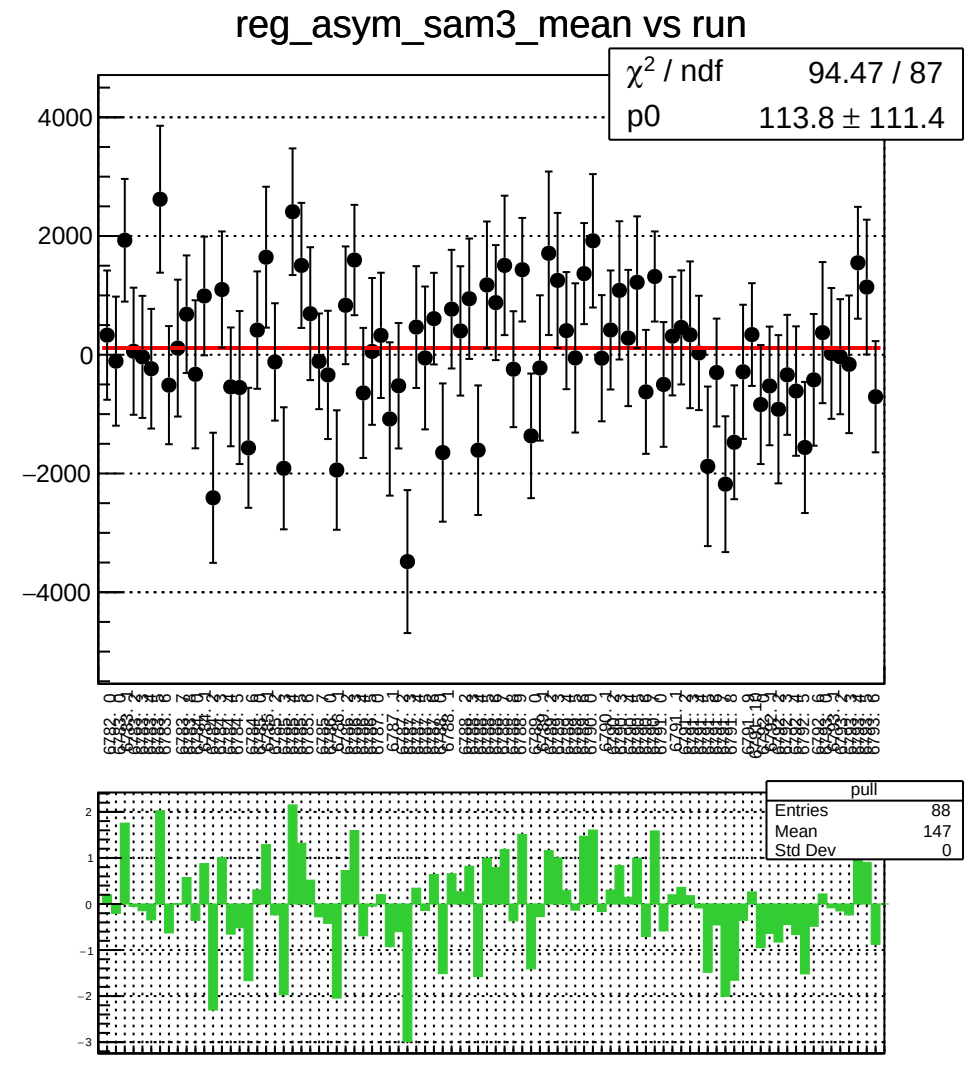

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.92 / 87
p0 0.517 ± 0.1759
pull
Entries 88
Mean 5.666
Std Dev 68.85

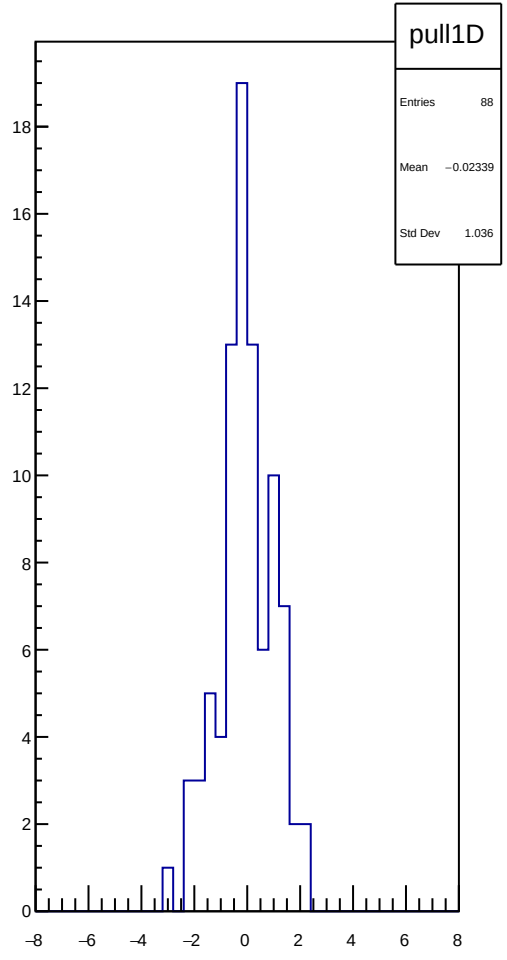

pull1D
Entries 88
Mean 0.01159
Std Dev 1.011

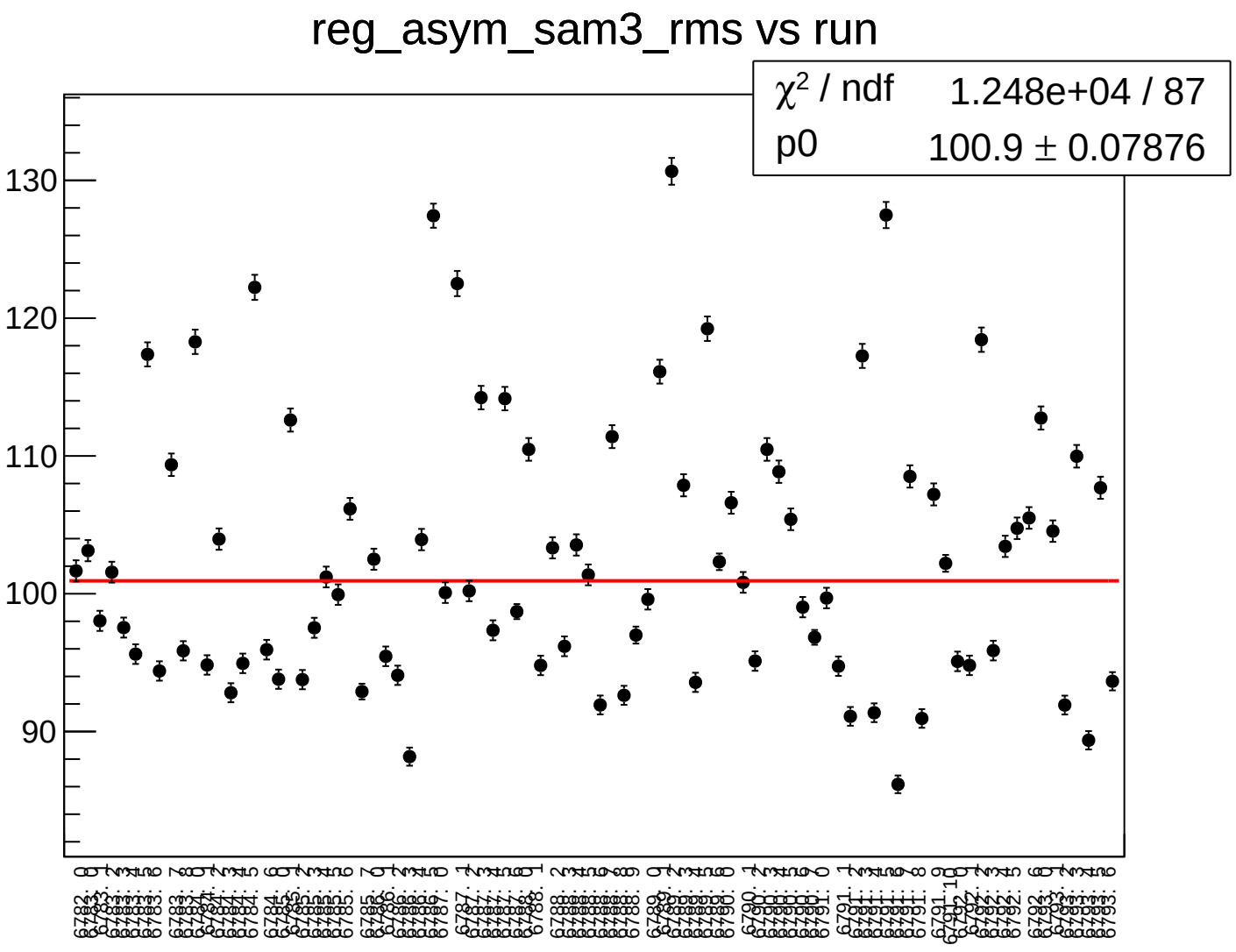

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6269 / 87
p0 159.7 ± 0.1244
210
200
190
180
170
160
150
140

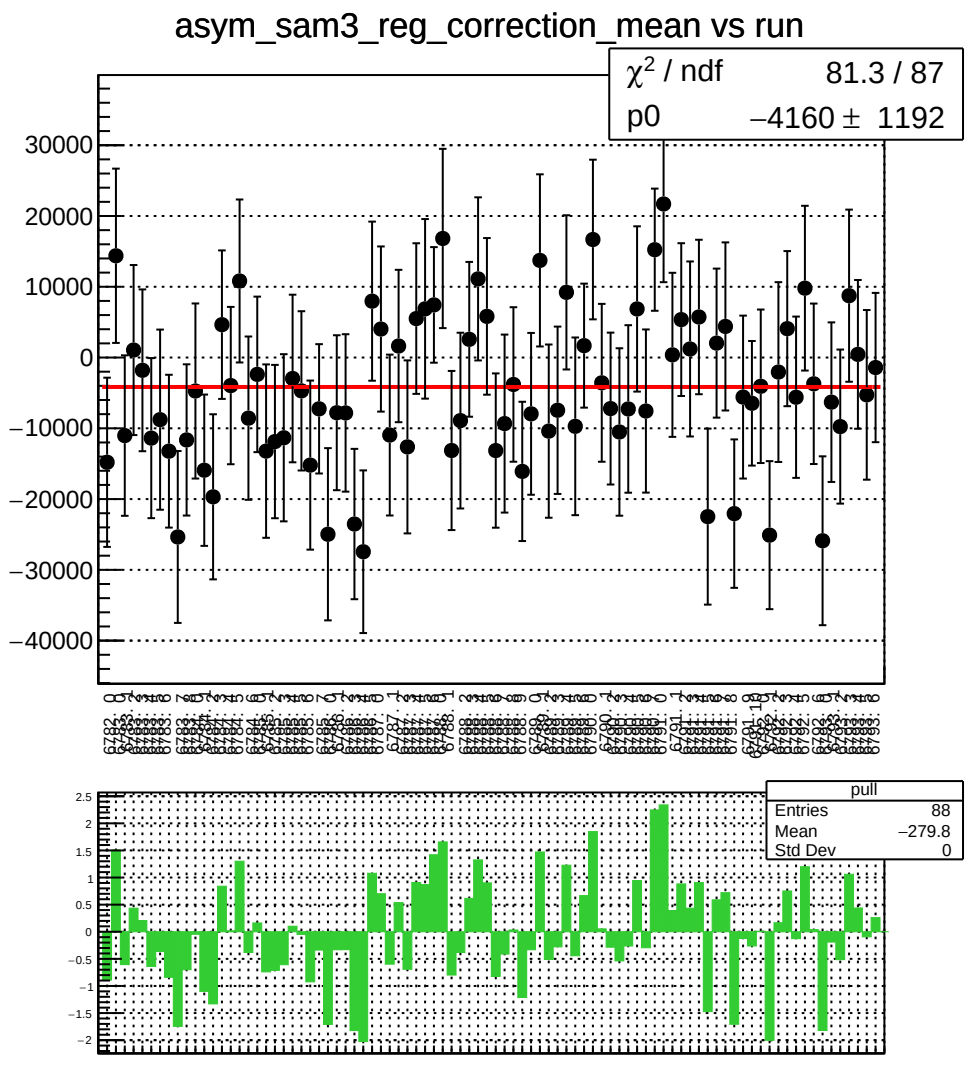

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.72 / 87
p0 −2.402e−14 ± 7.614e−14
pull
Entries 88
Mean −2.478
Std Dev 0
pull1D
Entries 88
Mean −0.05766
Std Dev 0.8753

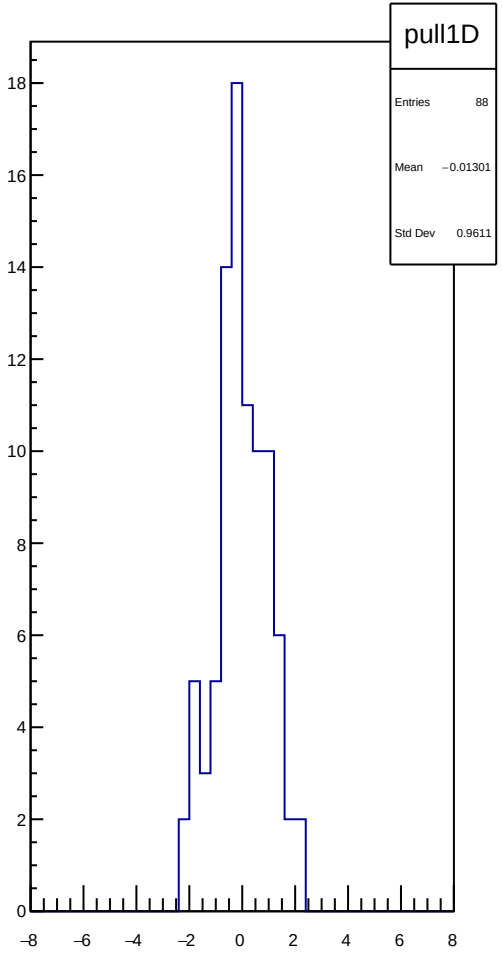

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.981e+05 / 87
p0 6.271e−11 ± 5.384e−14
0.25
0.2
0.15
0.1
0.05

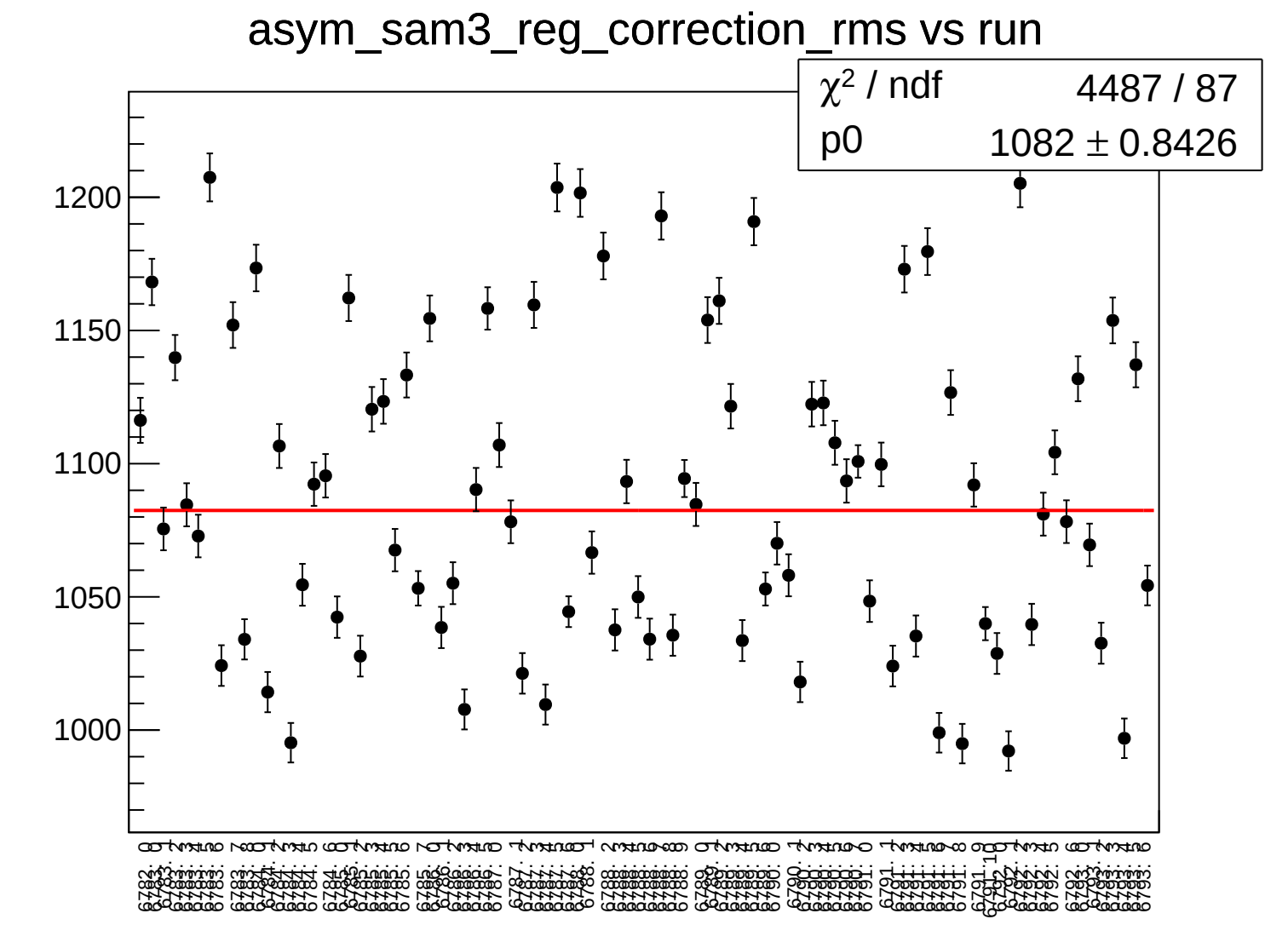

reg_asym_sam3_mean vs run
χ^2 / ndf 94.47 / 87
p0 113.8 ± 111.4
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 147
Std Dev 0
2
1
0
−1
−2
−3

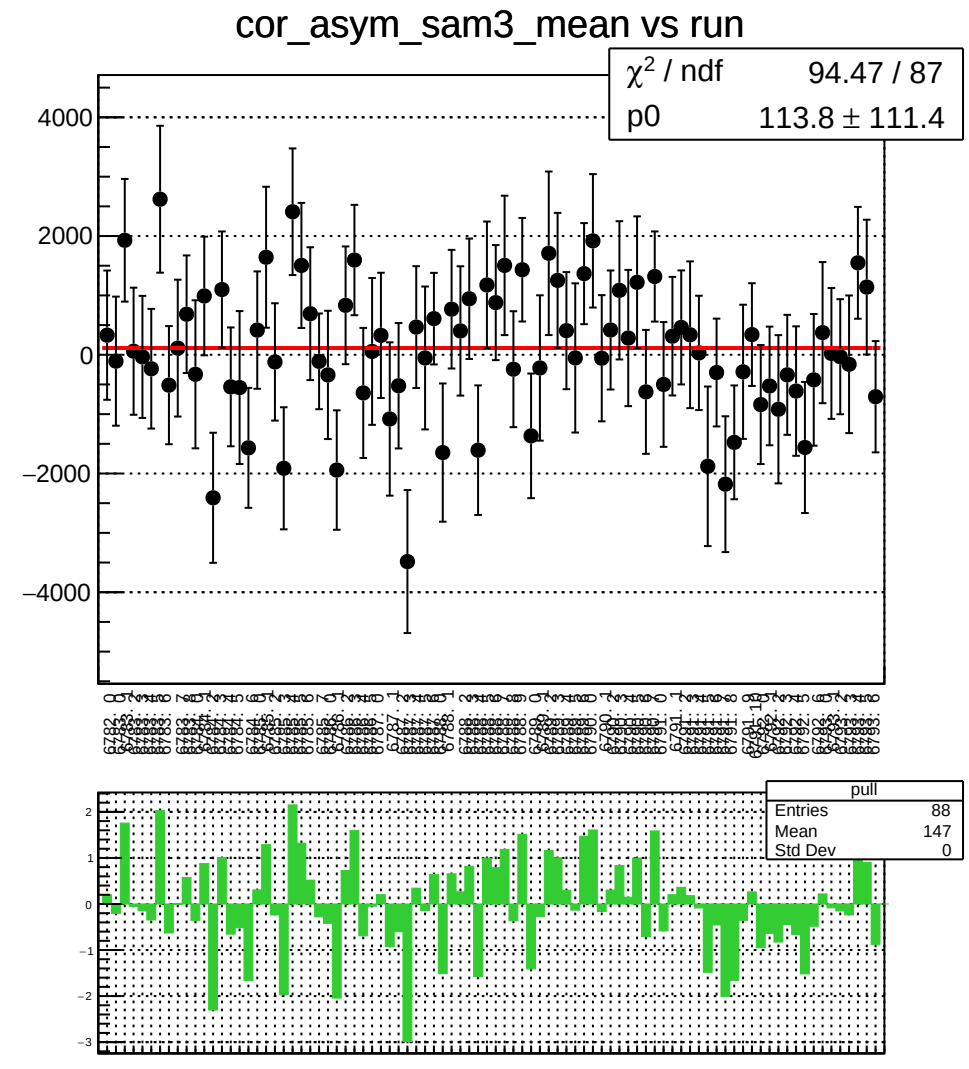

pull1D
Entries 88
Mean −0.02339
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

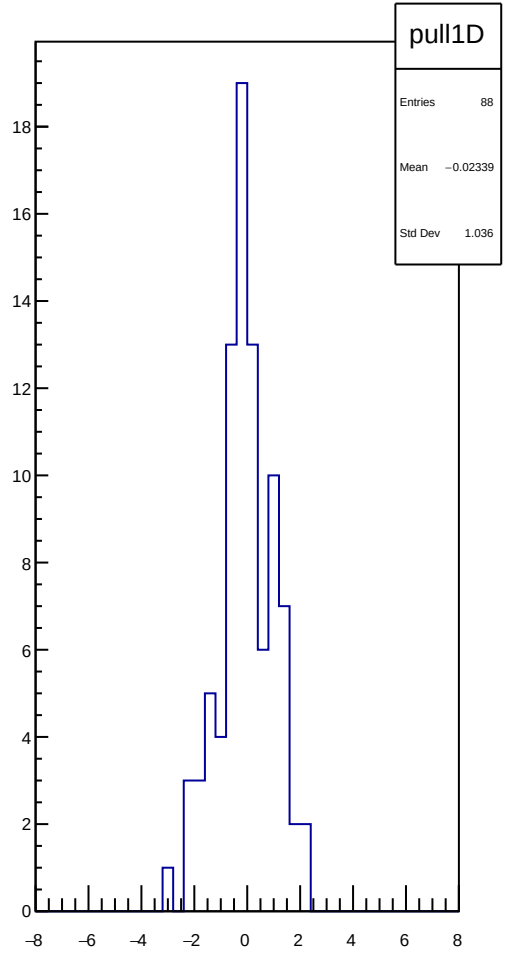

reg_asym_sam3_rms vs run
χ^2 / ndf 1.248e+04 / 87
p0 100.9 ± 0.07876
130
120
110
100
90

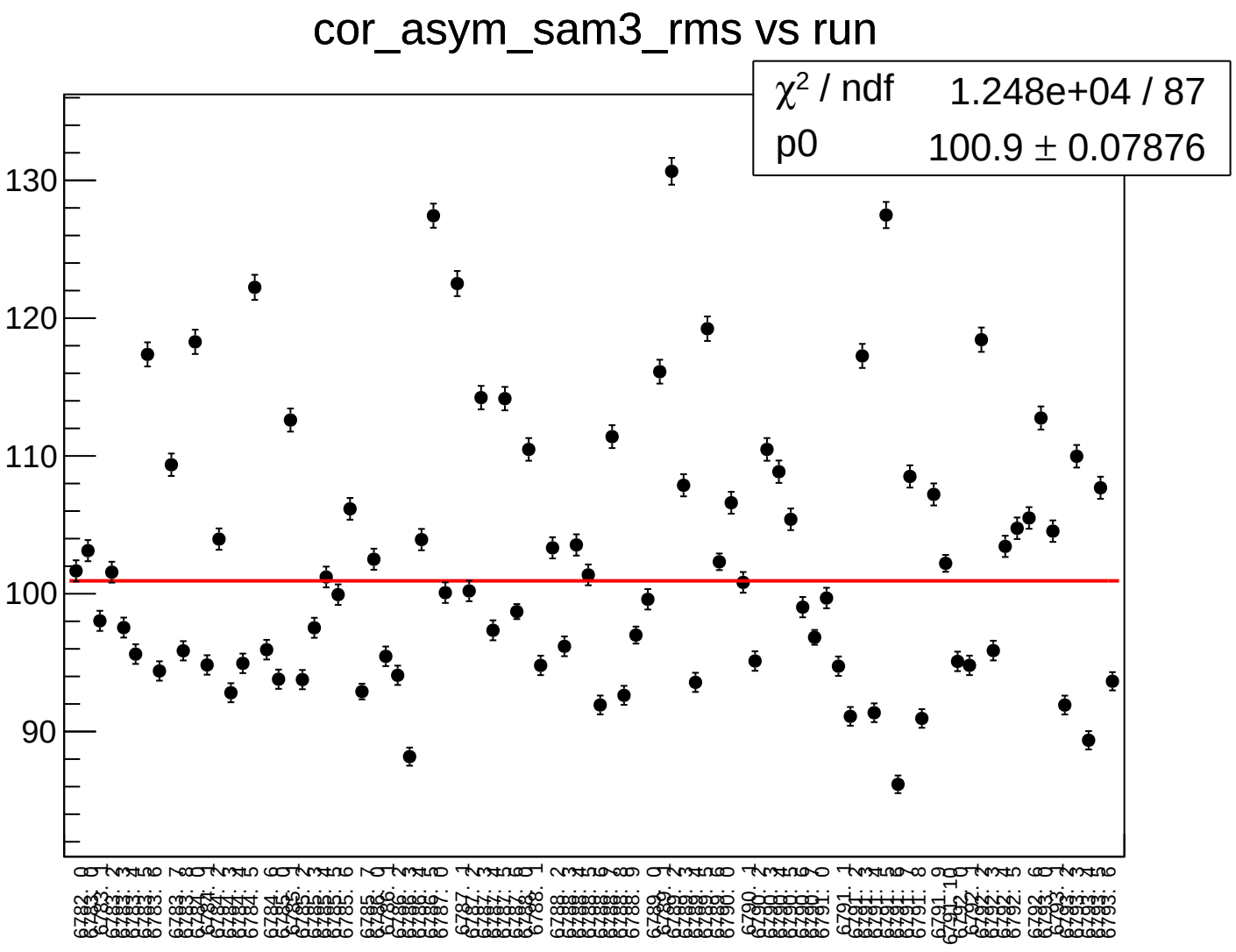

asym_sam3_reg_correction_mean vs run
χ² / ndf 81.3 / 87
p0 −4160 ± 1192
pull
Entries 88
Mean −279.8
Std Dev 0

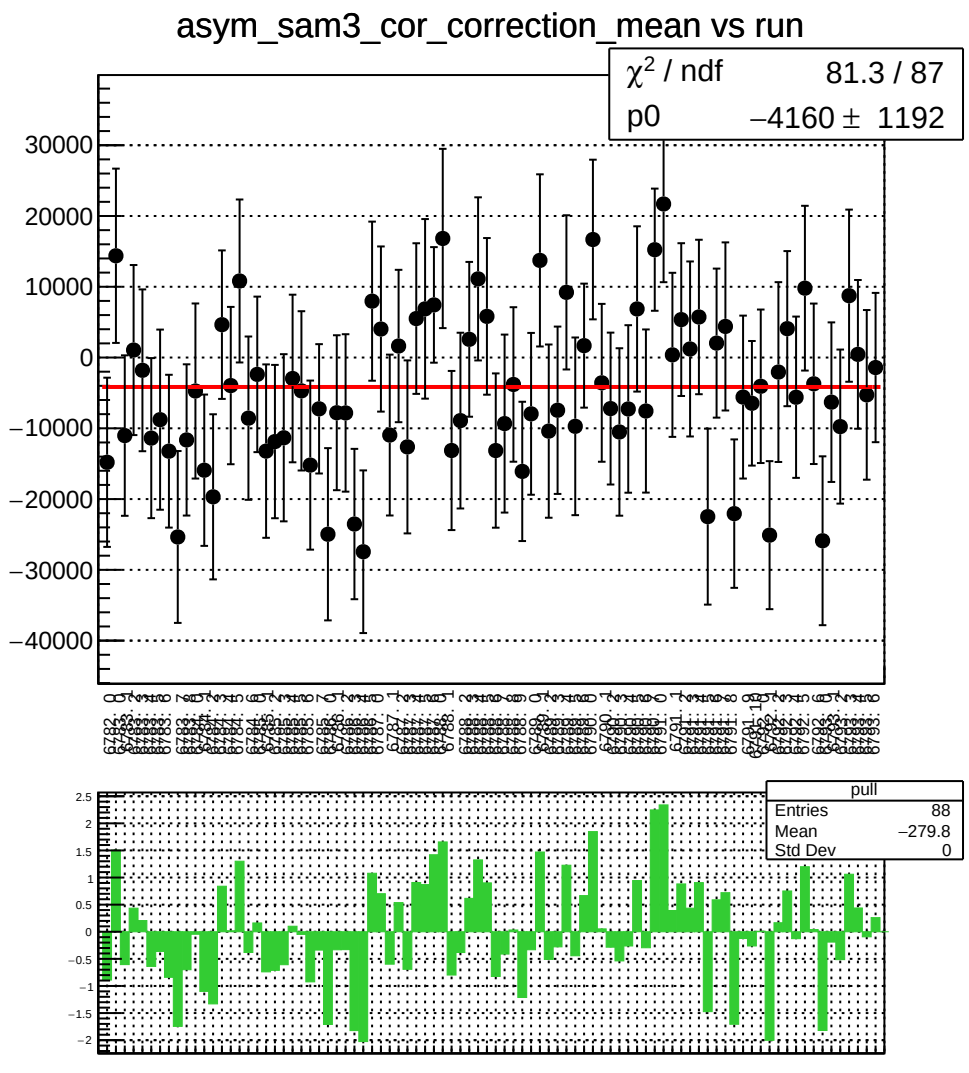

pull1D
Entries 88
Mean −0.01301
Std Dev 0.9611

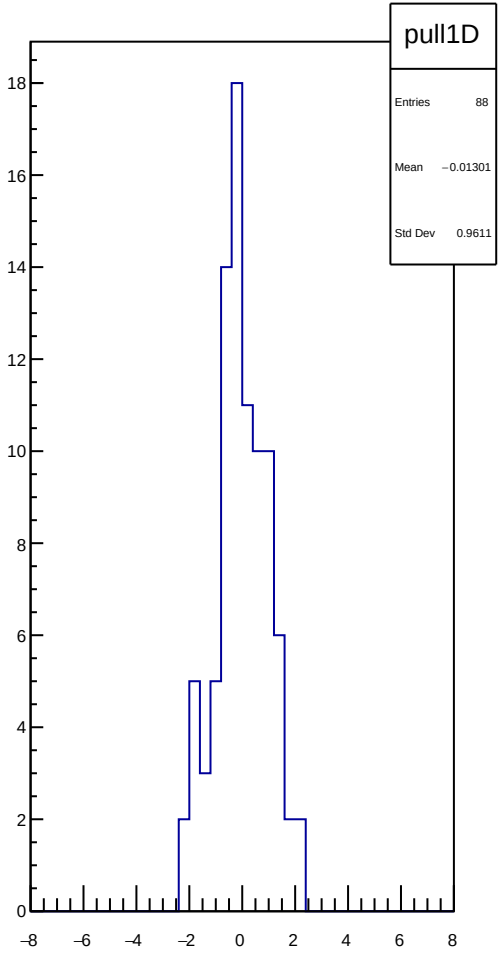

asym_sam3_reg_correction_rms vs run
χ² / ndf 4487 / 87
p0 1082 ± 0.8426
1200
1150
1100
1050
1000

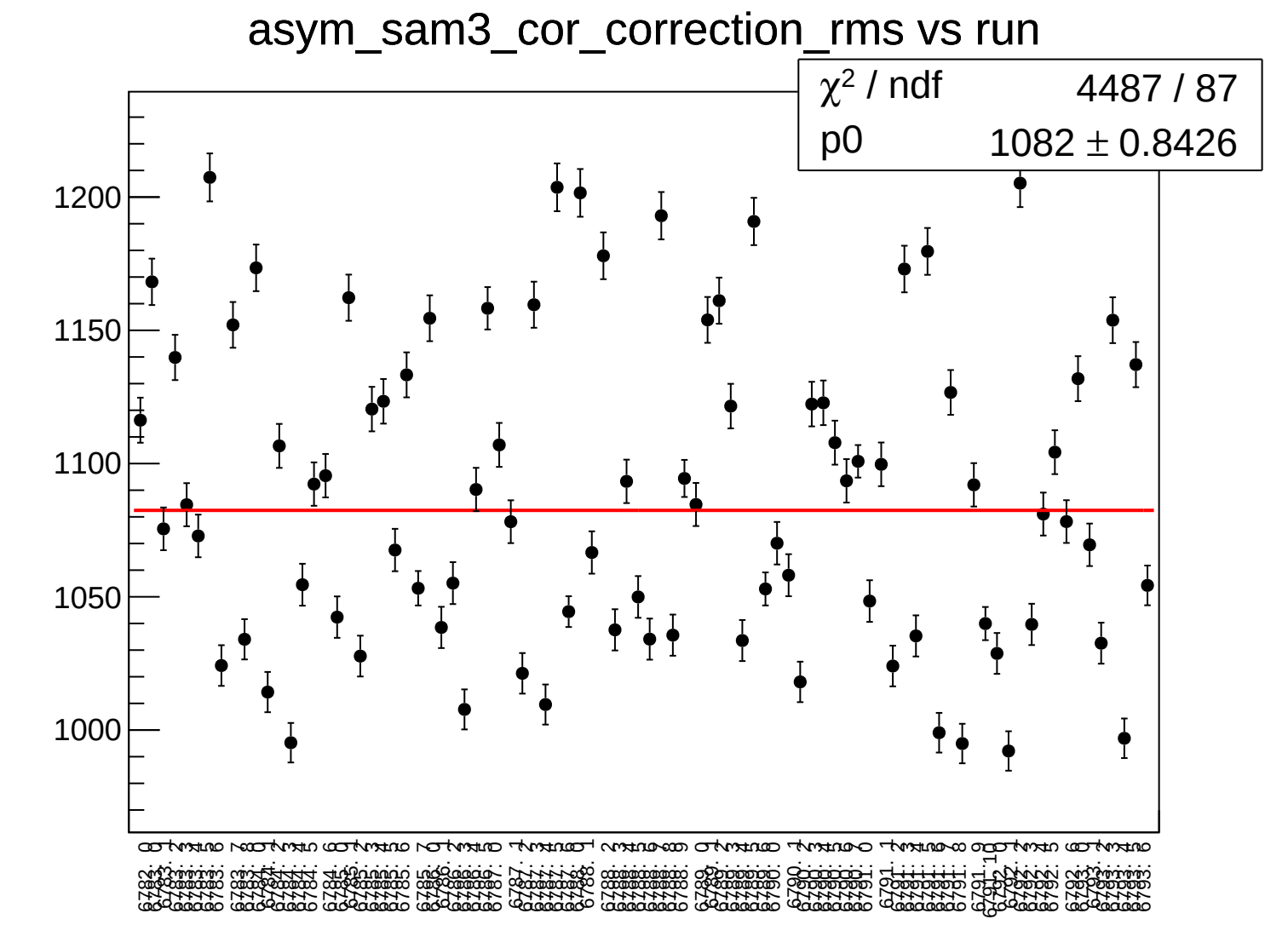

cor_asym_sam3_mean vs run
χ² / ndf 94.47 / 87
p0 113.8 ± 111.4
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 147
Std Dev 0
2
1
0
−1
−2
−3

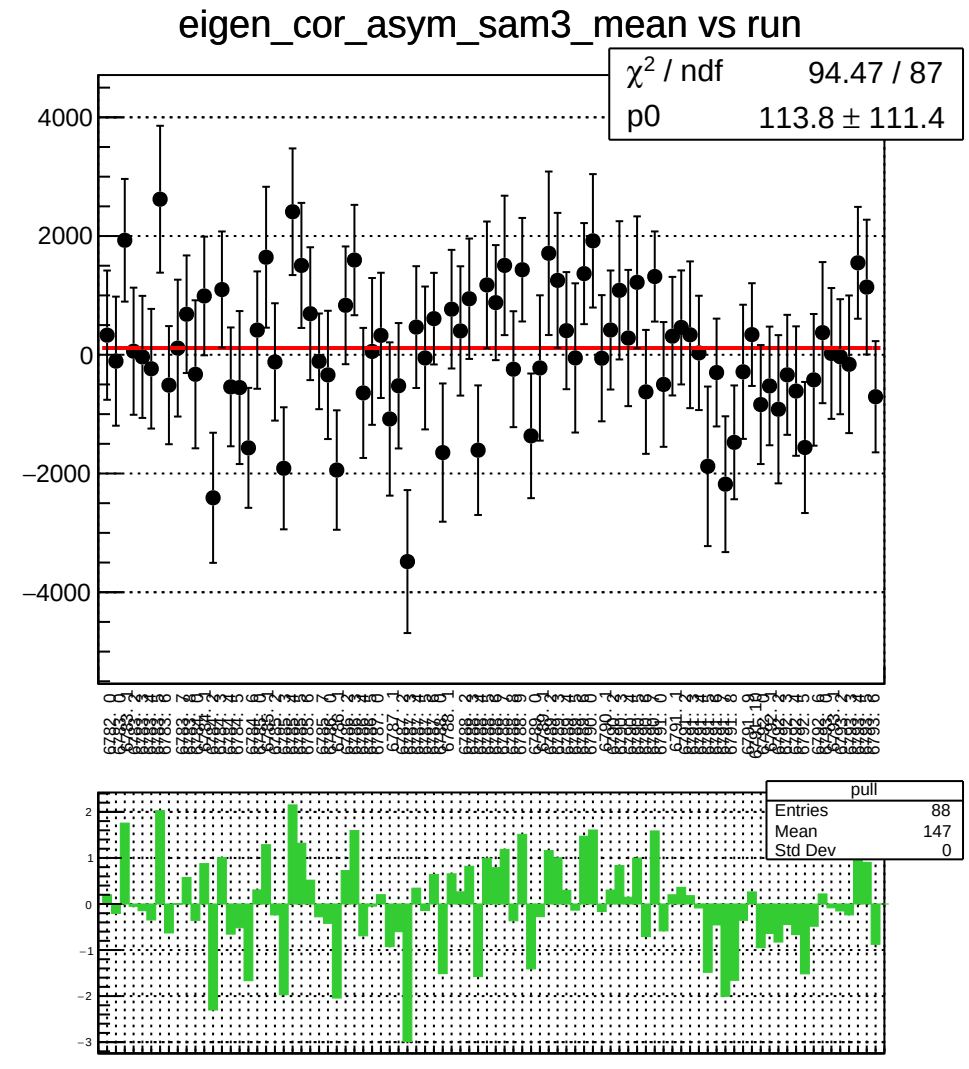

pull1D
Entries 88
Mean −0.02339
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

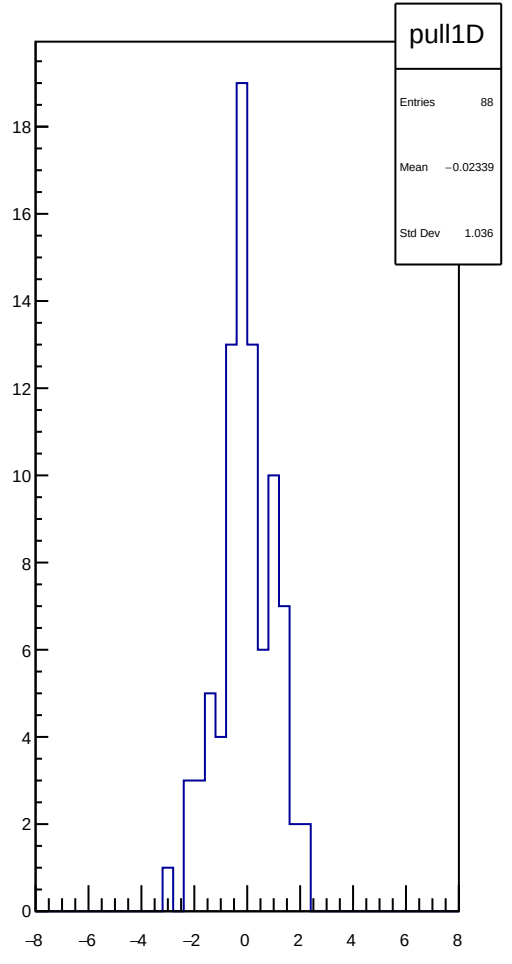

cor_asym_sam3_rms vs run
χ² / ndf 1.248e+04 / 87
p0 100.9 ± 0.07876
130
120
110
100
90

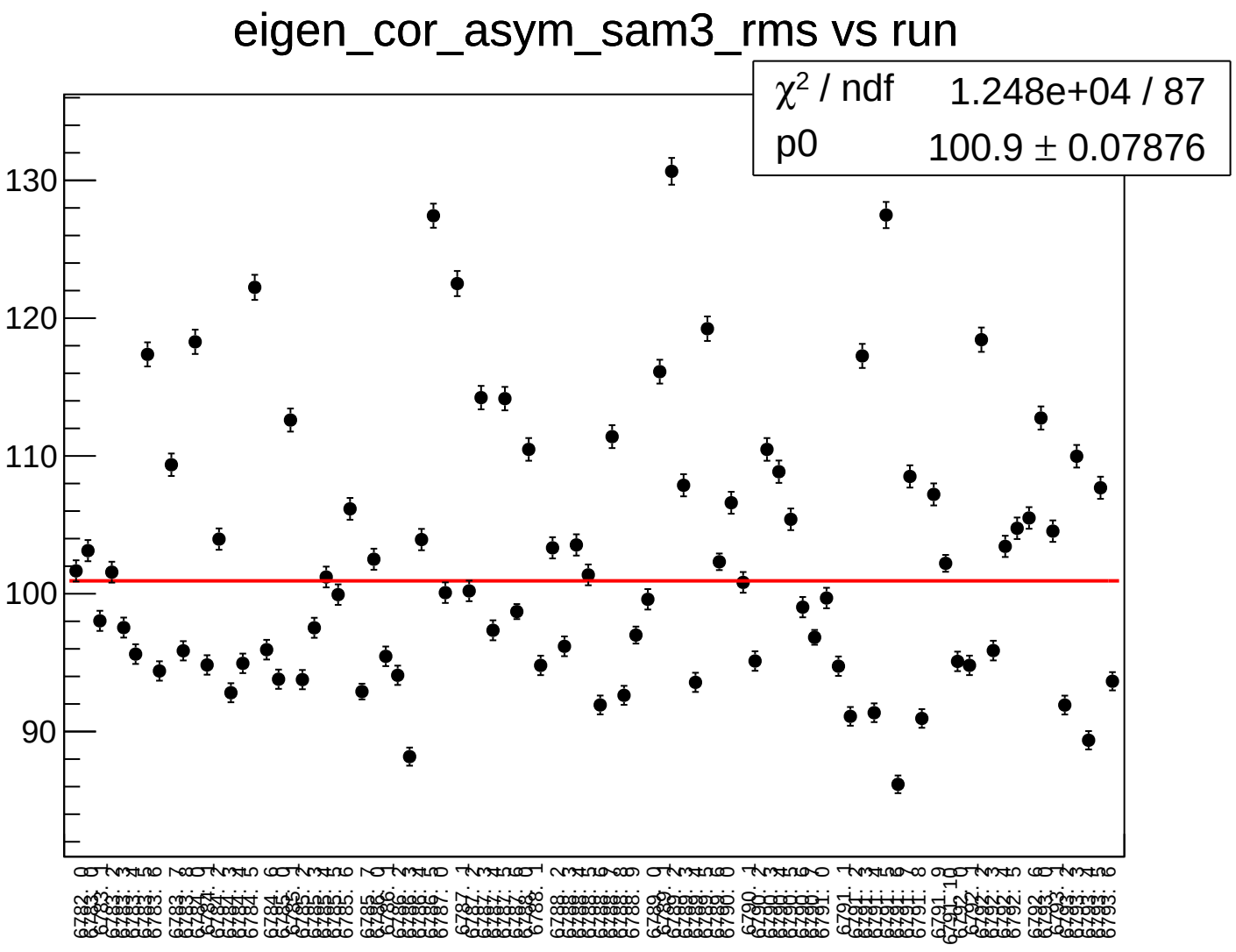

asym_sam3_cor_correction_mean vs run
χ² / ndf 81.3 / 87
p0 −4160 ± 1192
pull
Entries 88
Mean −279.8
Std Dev 0

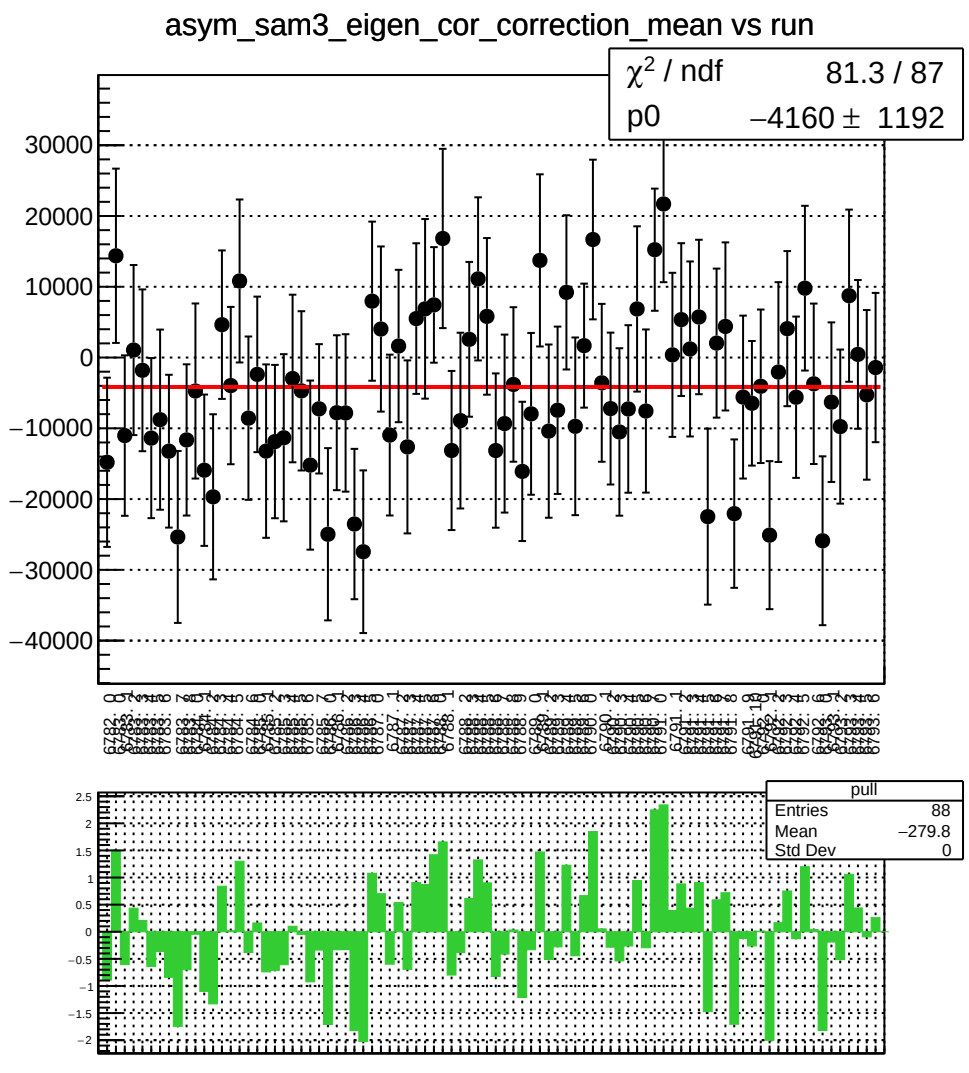

pull1D
Entries 88
Mean −0.01301
Std Dev 0.9611

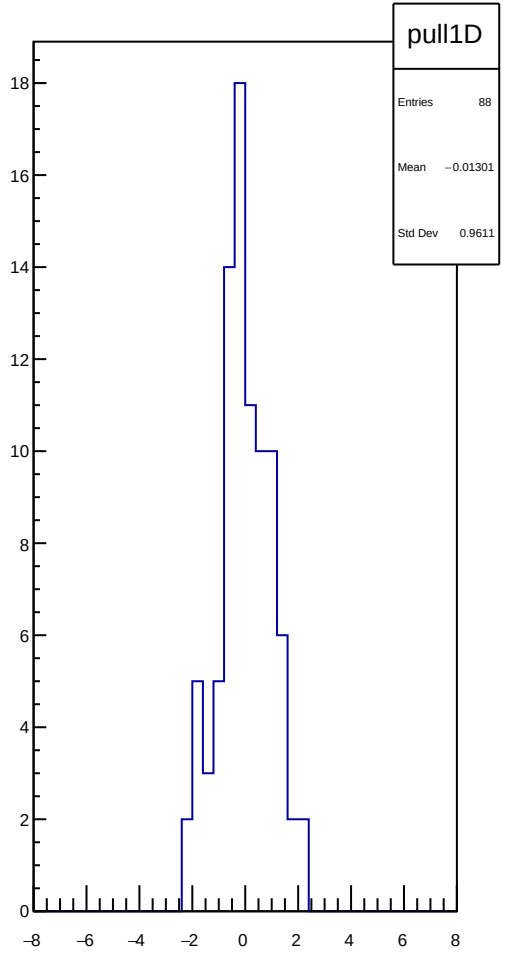

asym_sam3_cor_correction_rms vs run
χ² / ndf 4487 / 87
p0 1082 ± 0.8426
1200
1150
1100
1050
1000

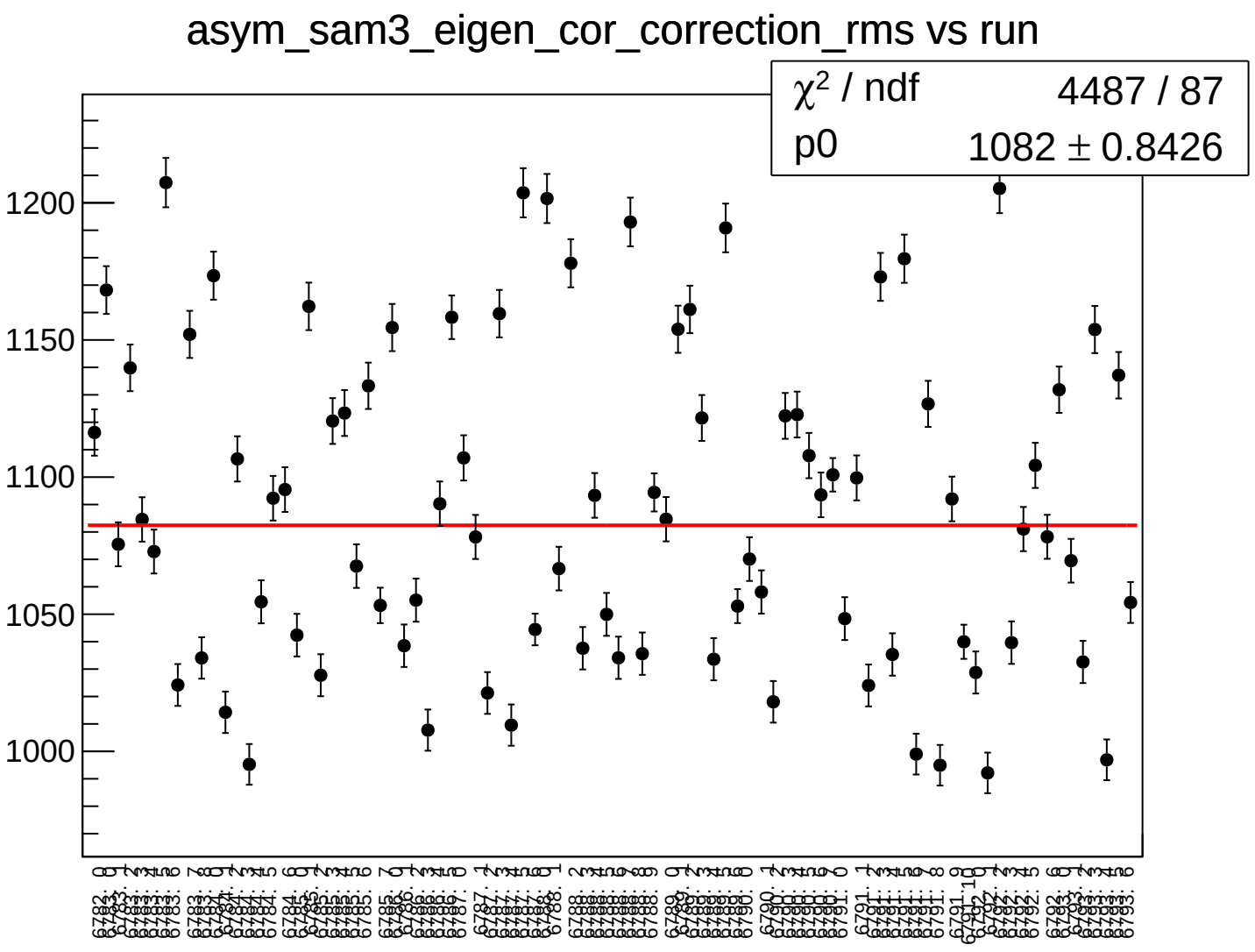

eigen_cor_asym_sam3_mean vs run
χ² / ndf 94.47 / 87
p0 113.8 ± 111.4
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 147
Std Dev 0
2
1
0
−1
−2
−3

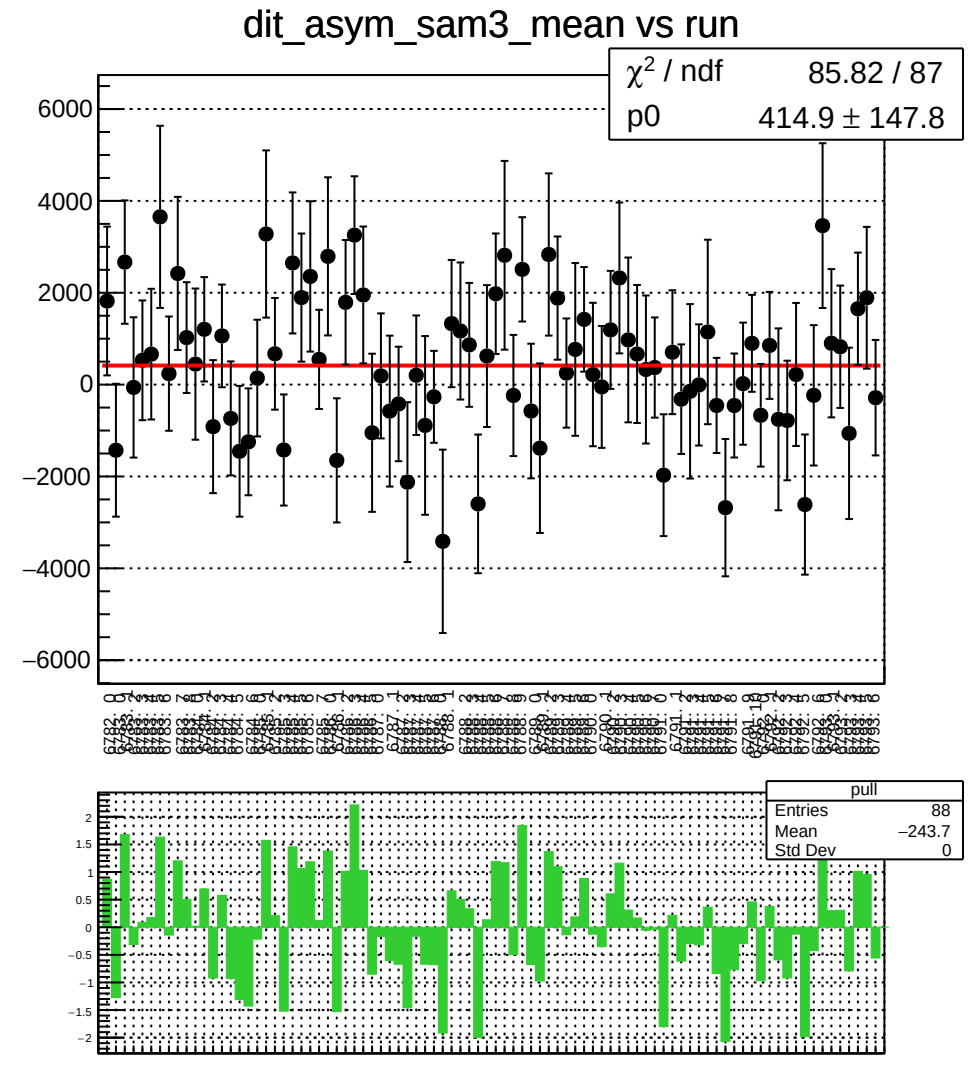

pull1D
Entries 88
Mean −0.02339
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

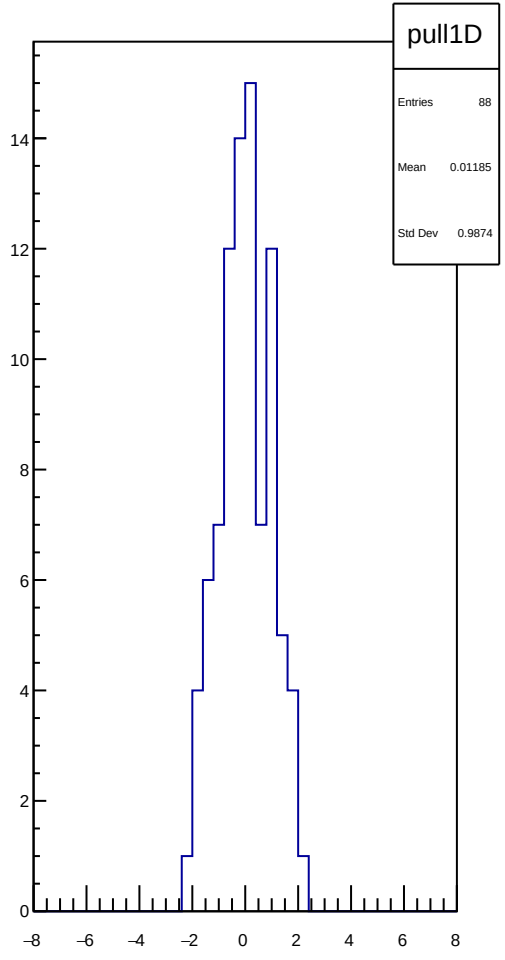

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 1.248e+04 / 87
p0 100.9 ± 0.07876
130
120
110
100
90

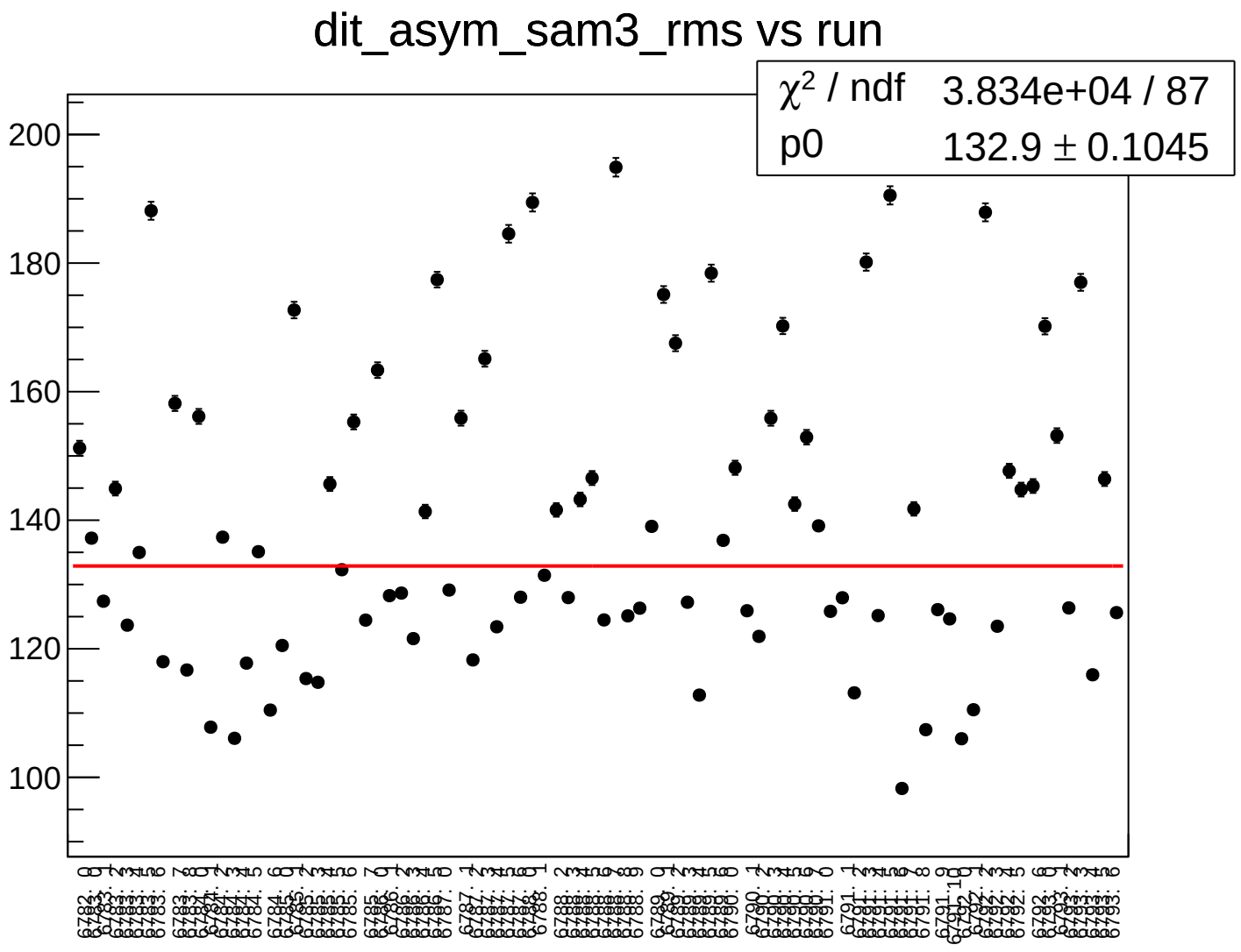

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 81.3 / 87
p0 −4160 ± 1192
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −279.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

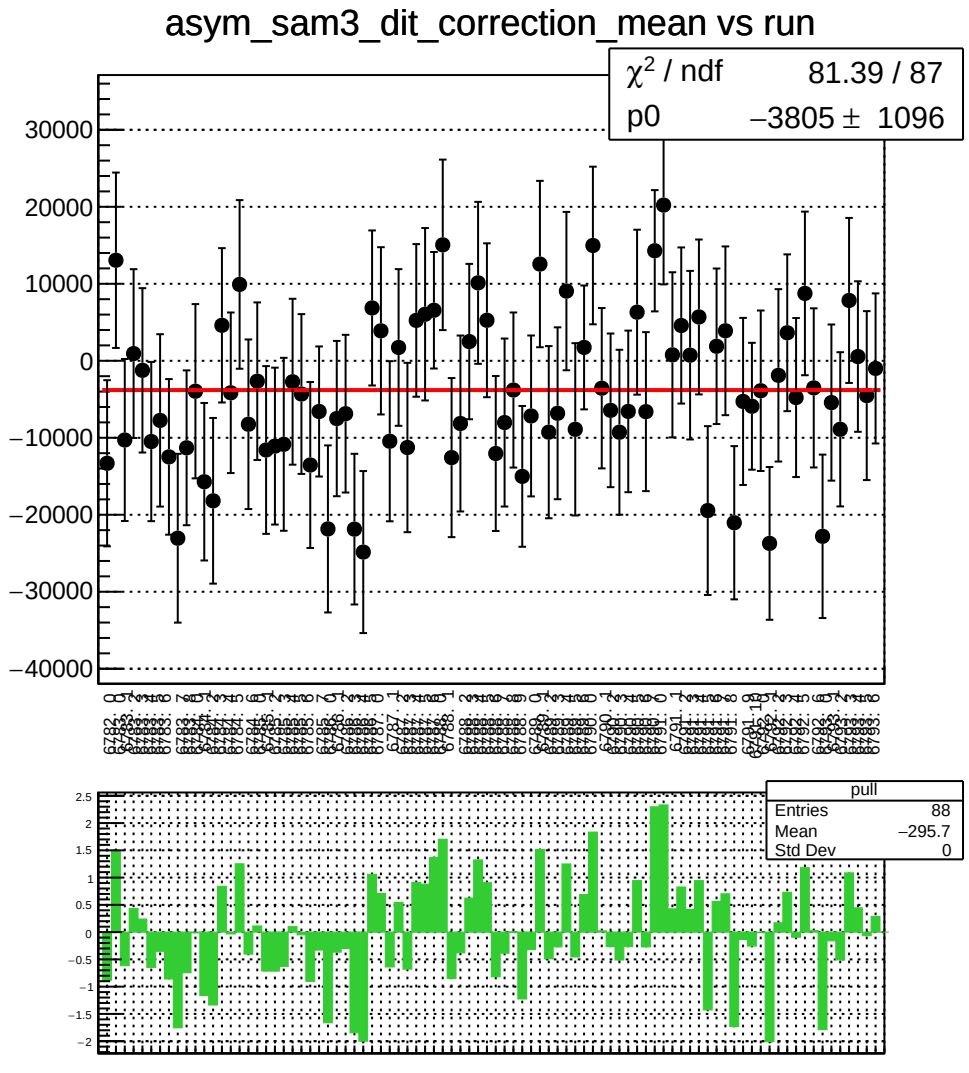

pull1D
Entries 88
Mean −0.01301
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

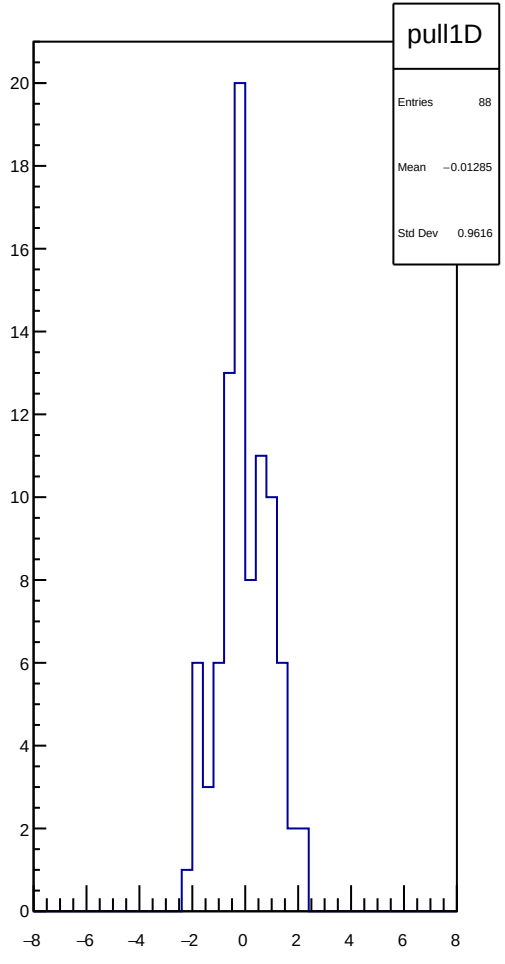

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 4487 / 87
p0 1082 ± 0.8426
1200
1150
1100
1050
1000

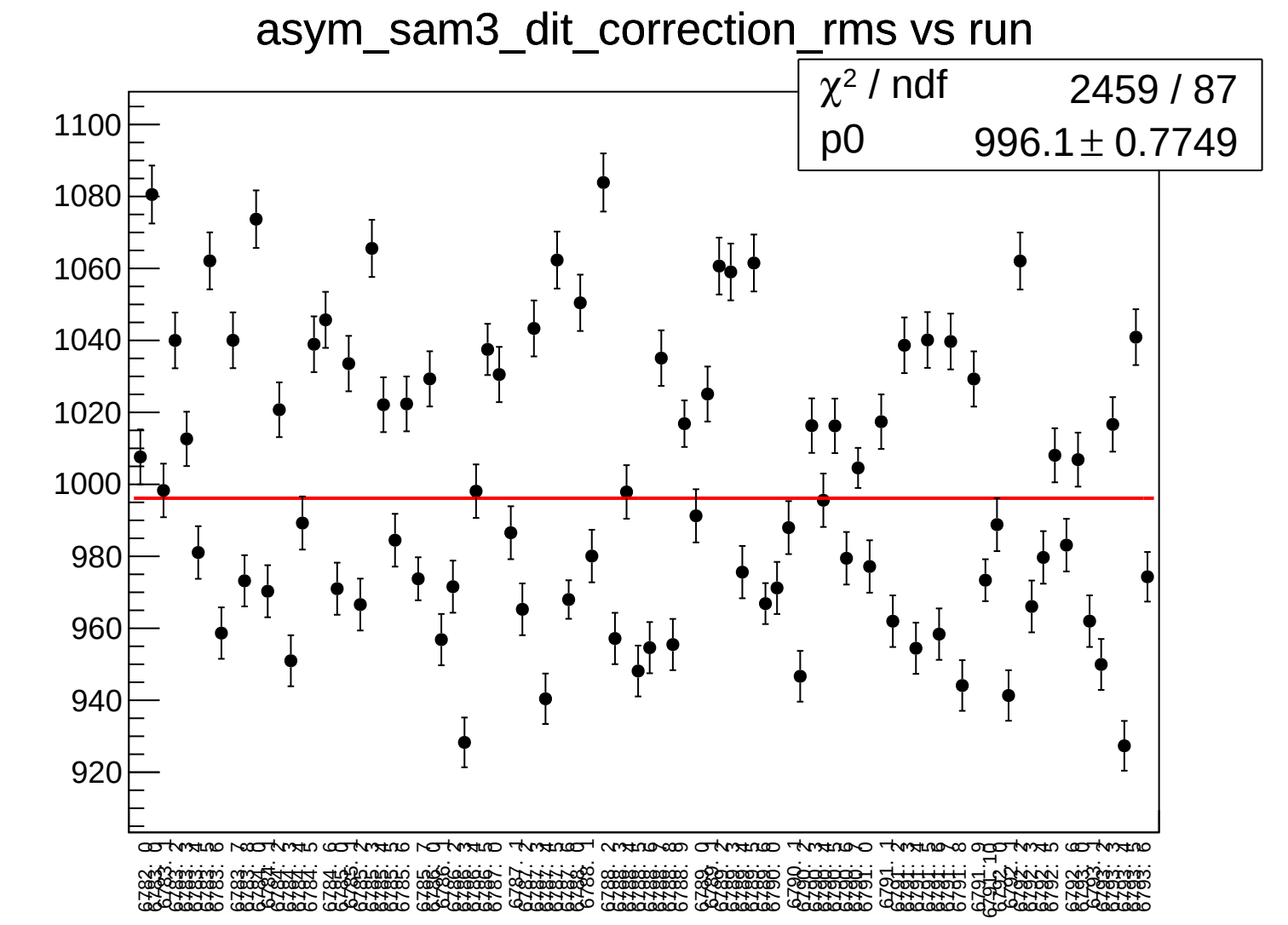

dit_asym_sam3_mean vs run
χ² / ndf 85.82 / 87
p0 414.9 ± 147.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −243.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

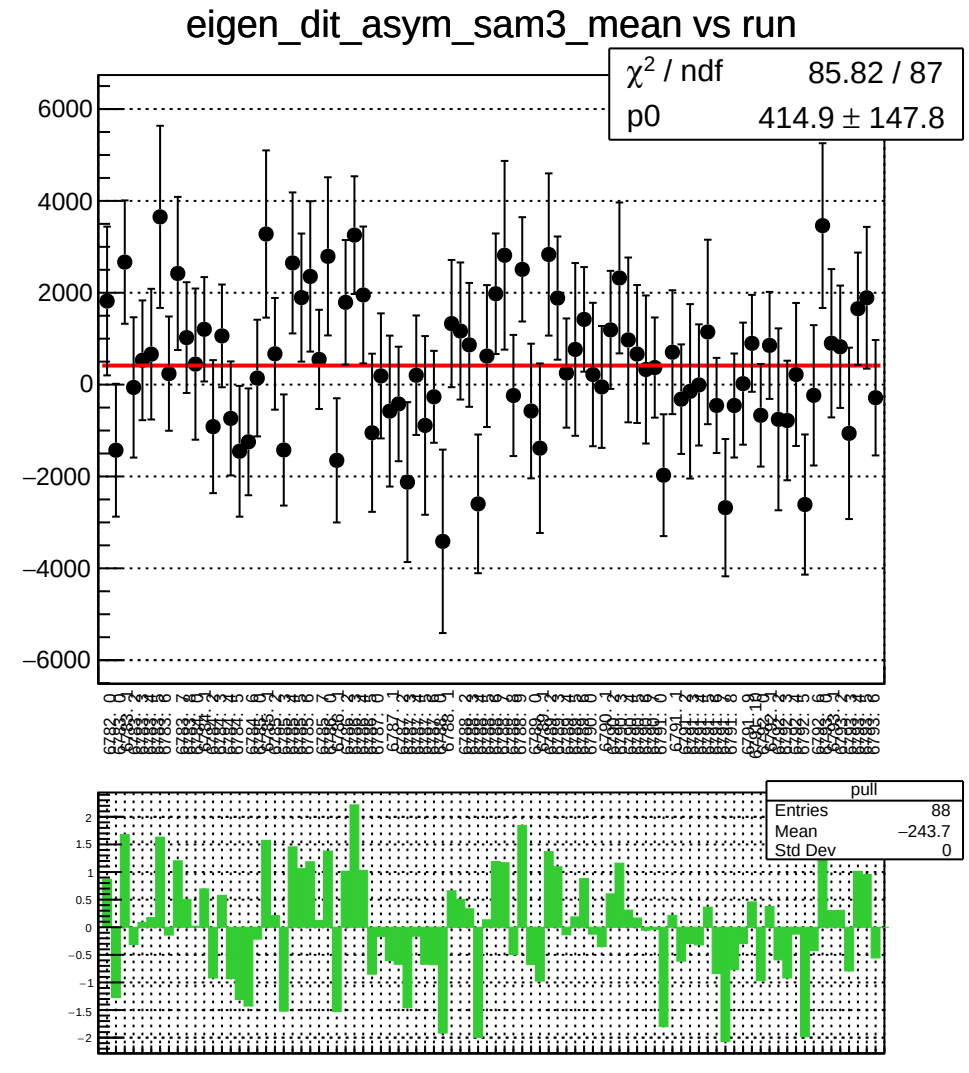

pull1D
Entries 88
Mean 0.01185
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

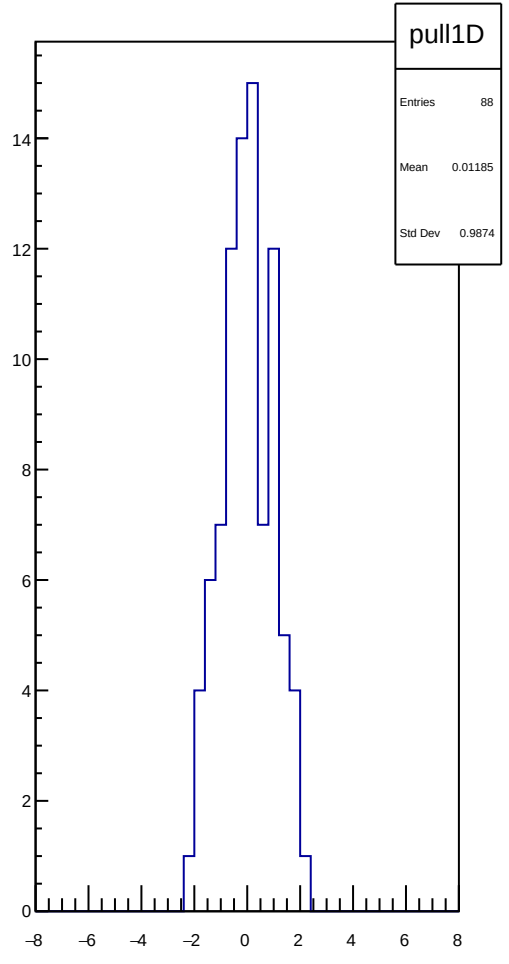

dit_asym_sam3_rms vs run
χ² / ndf 3.834e+04 / 87
p0 132.9 ± 0.1045
200
180
160
140
120
100

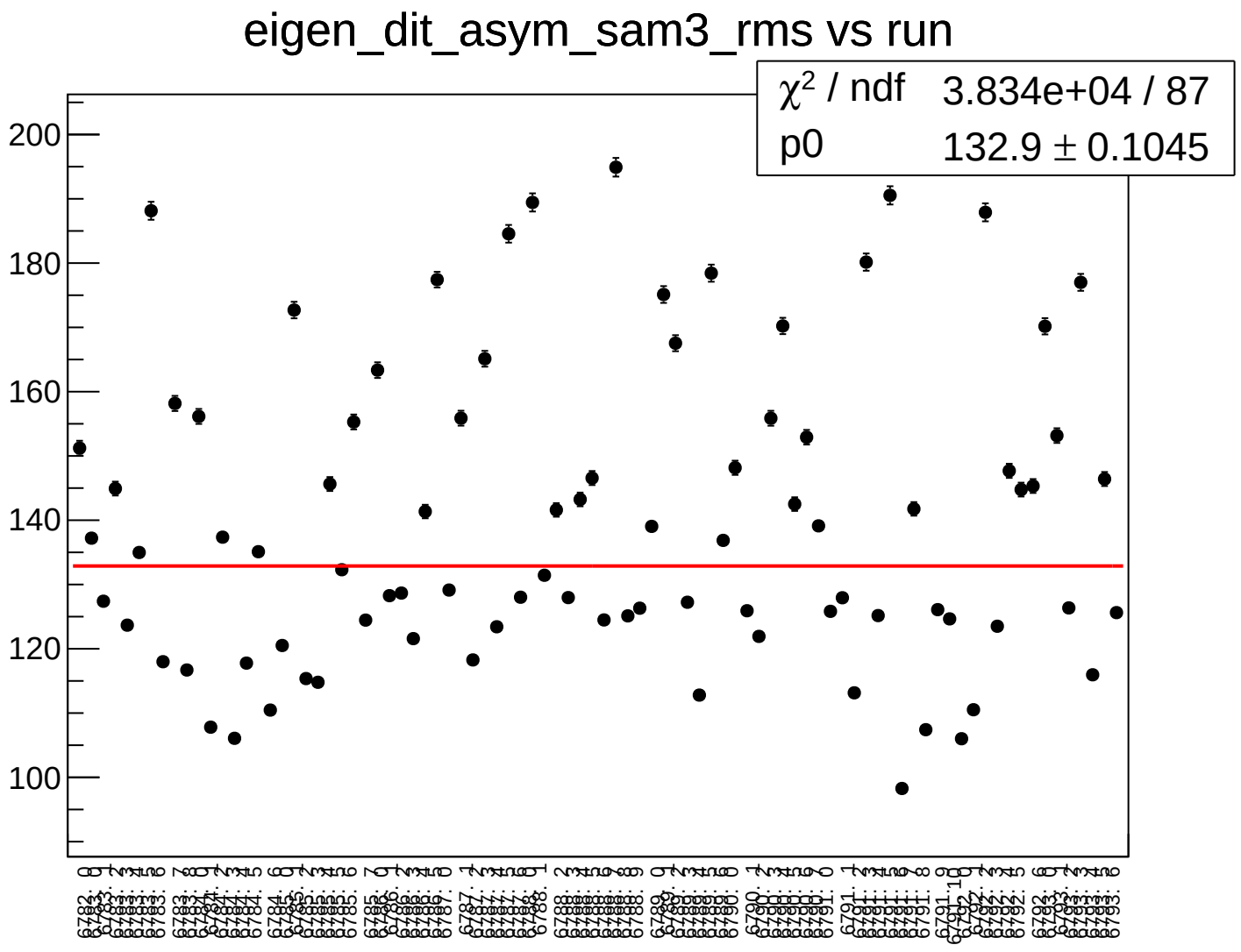

asym_sam3_dit_correction_mean vs run
χ² / ndf 81.39 / 87
p0 −3805 ± 1096
pull
Entries 88
Mean −295.7
Std Dev 0

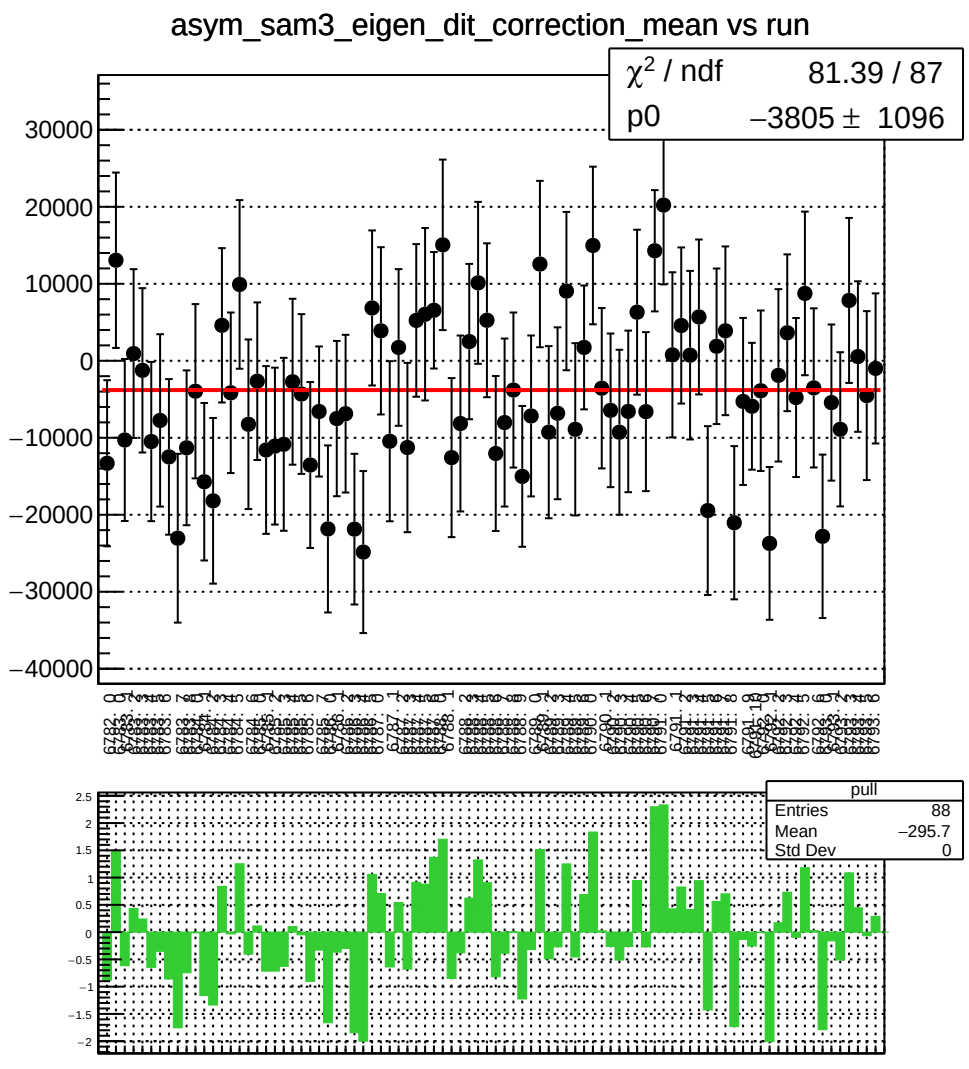

pull1D
Entries 88
Mean −0.01285
Std Dev 0.9616

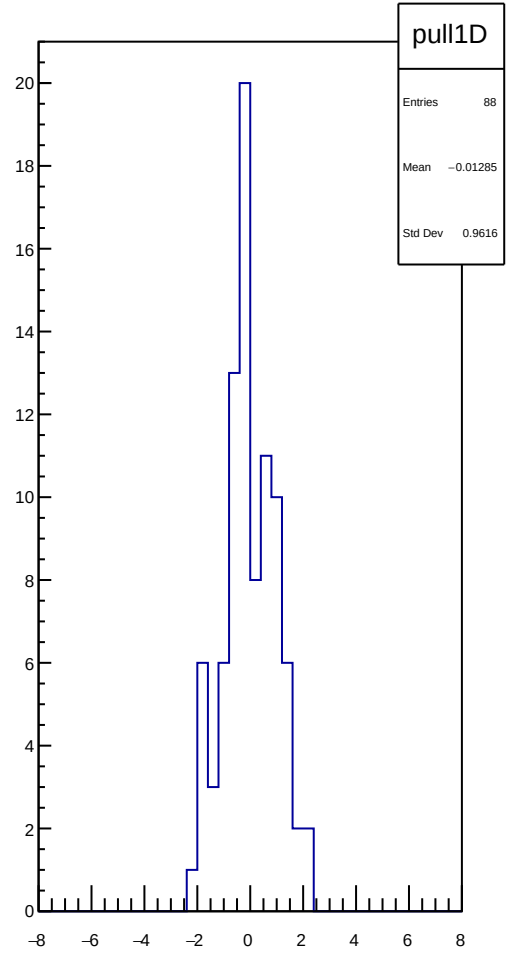

asym_sam3_dit_correction_rms vs run
χ² / ndf 2459 / 87
p0 996.1 ± 0.7749
1100
1080
1060
1040
1020
1000
980
960
940
920

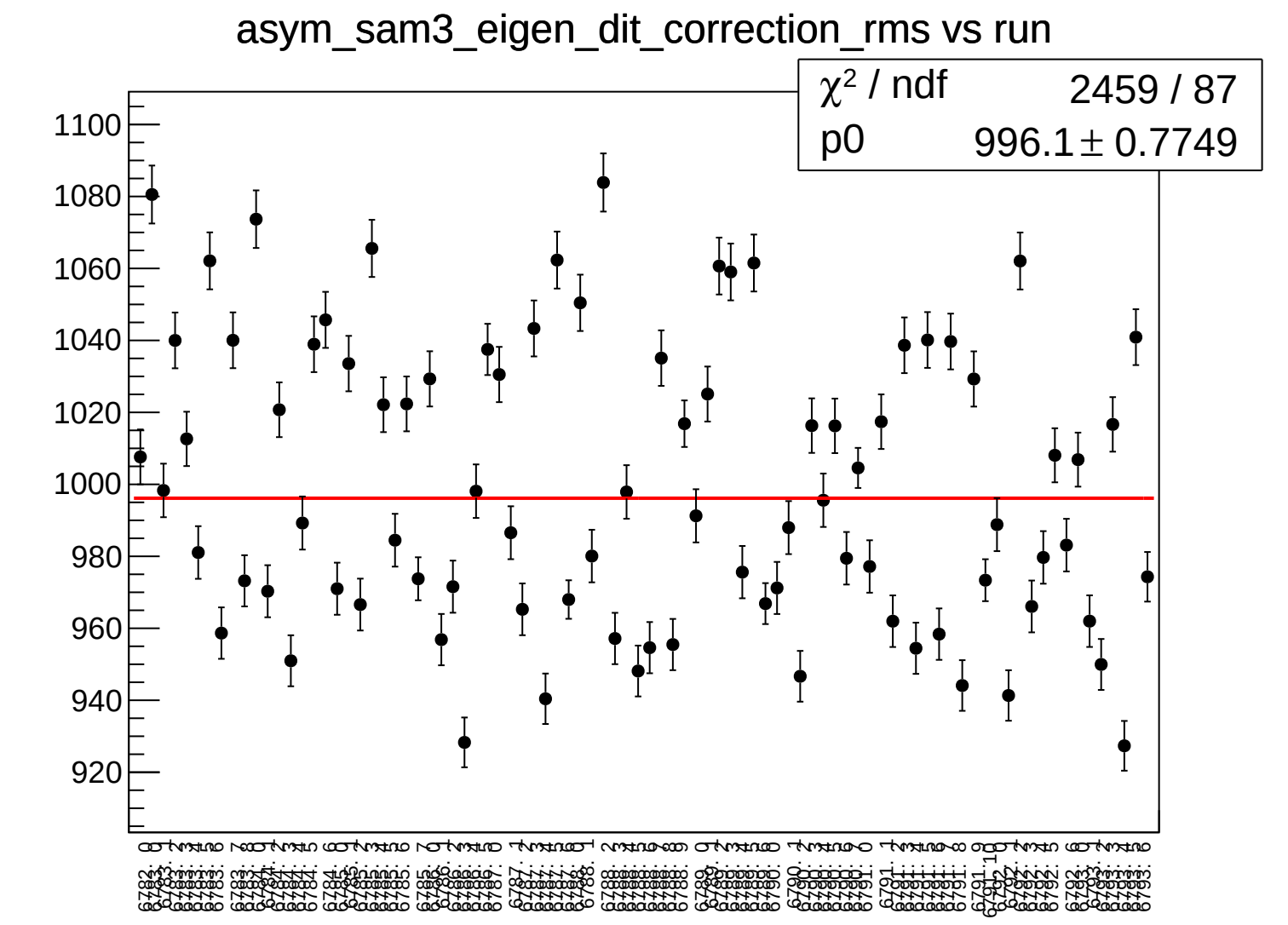

eigen_dit_asym_sam3_mean vs run
χ² / ndf 85.82 / 87
p0 414.9 ± 147.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −243.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

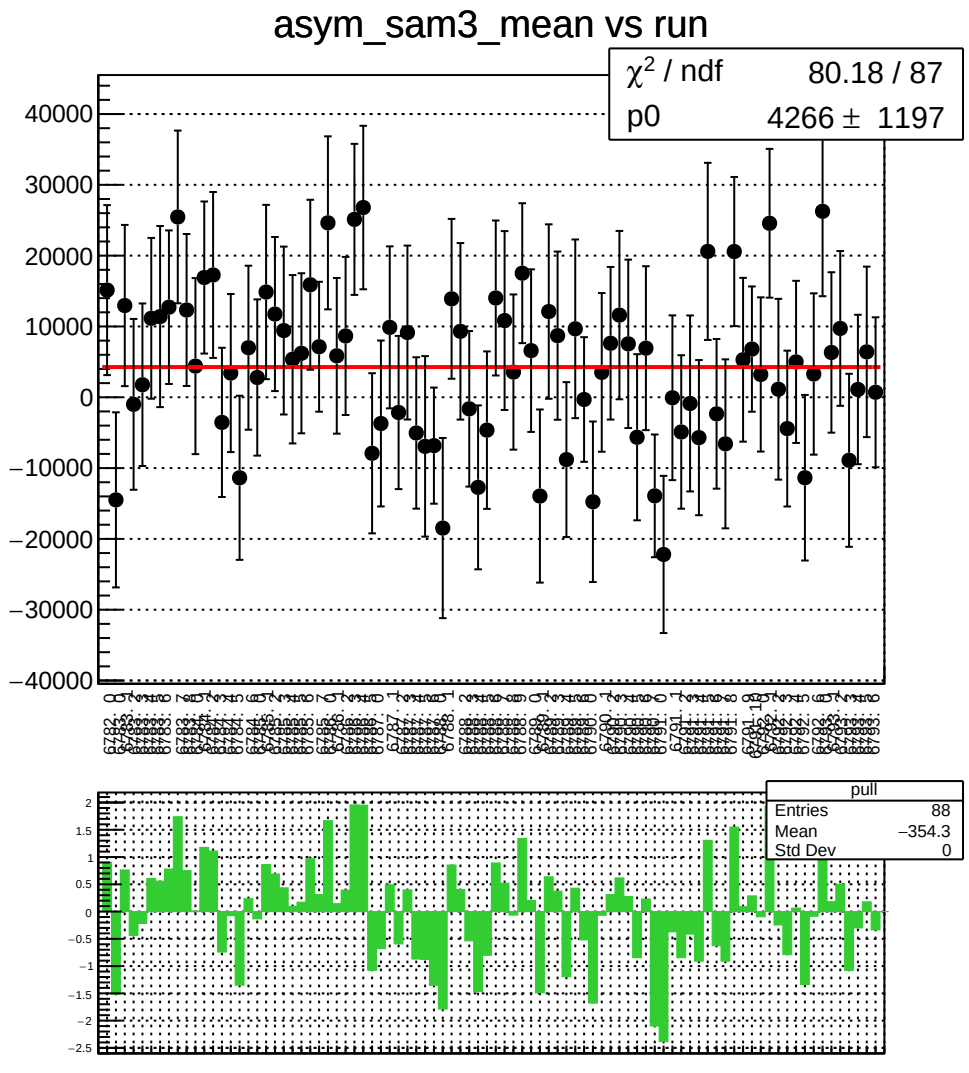

pull1D
Entries 88
Mean 0.01185
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

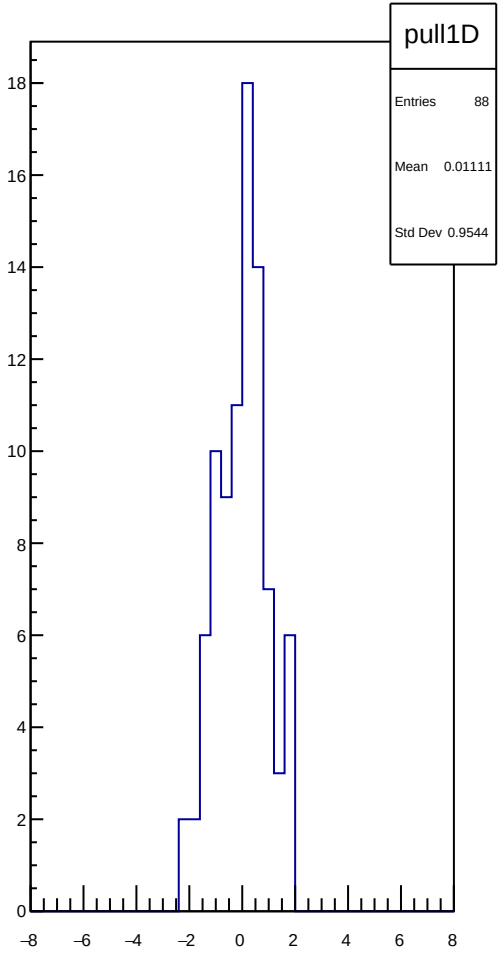

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.834e+04 / 87
p0 132.9 ± 0.1045
200
180
160
140
120
100

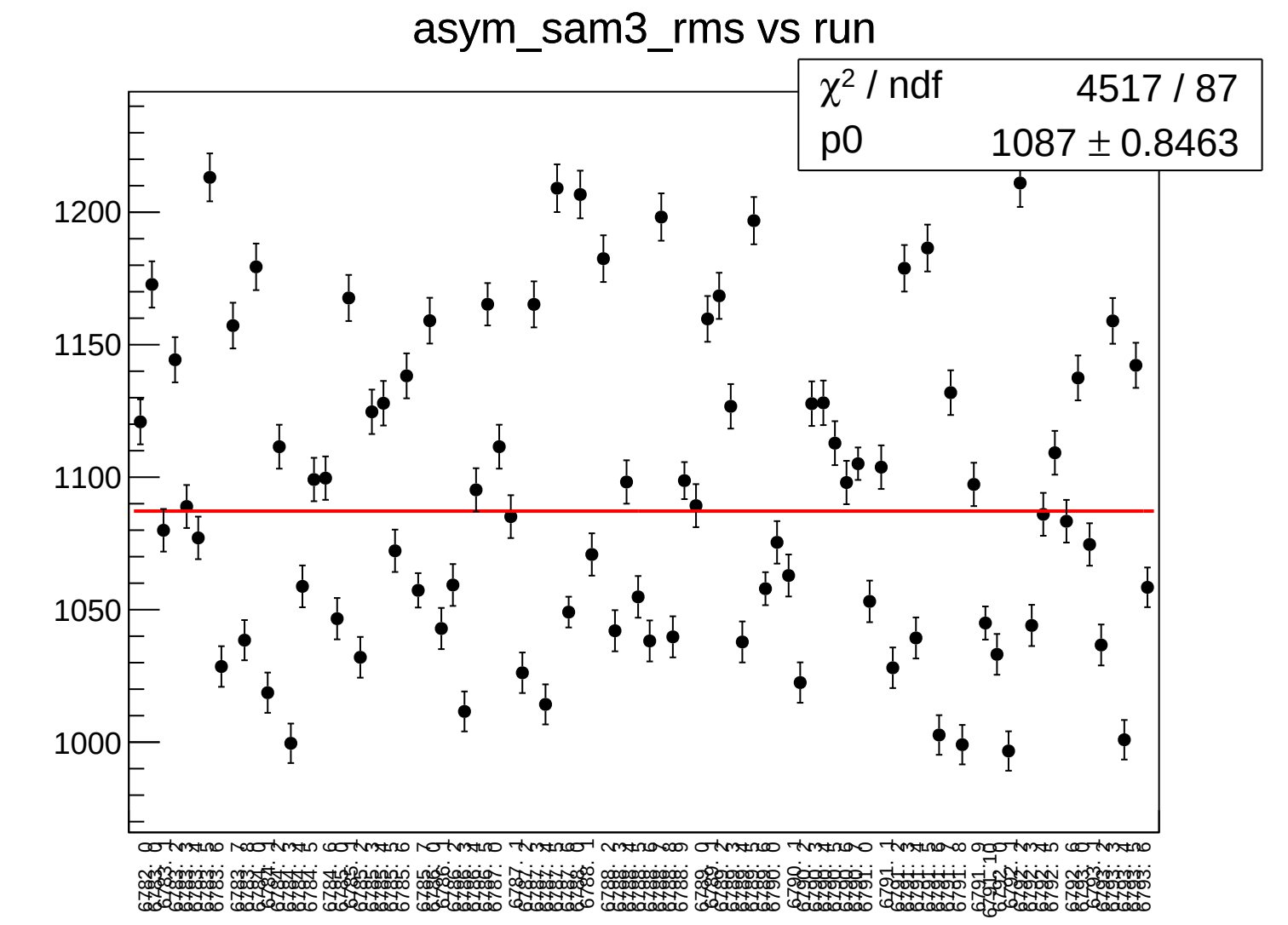

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 81.39 / 87
p0 −3805 ± 1096
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −295.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

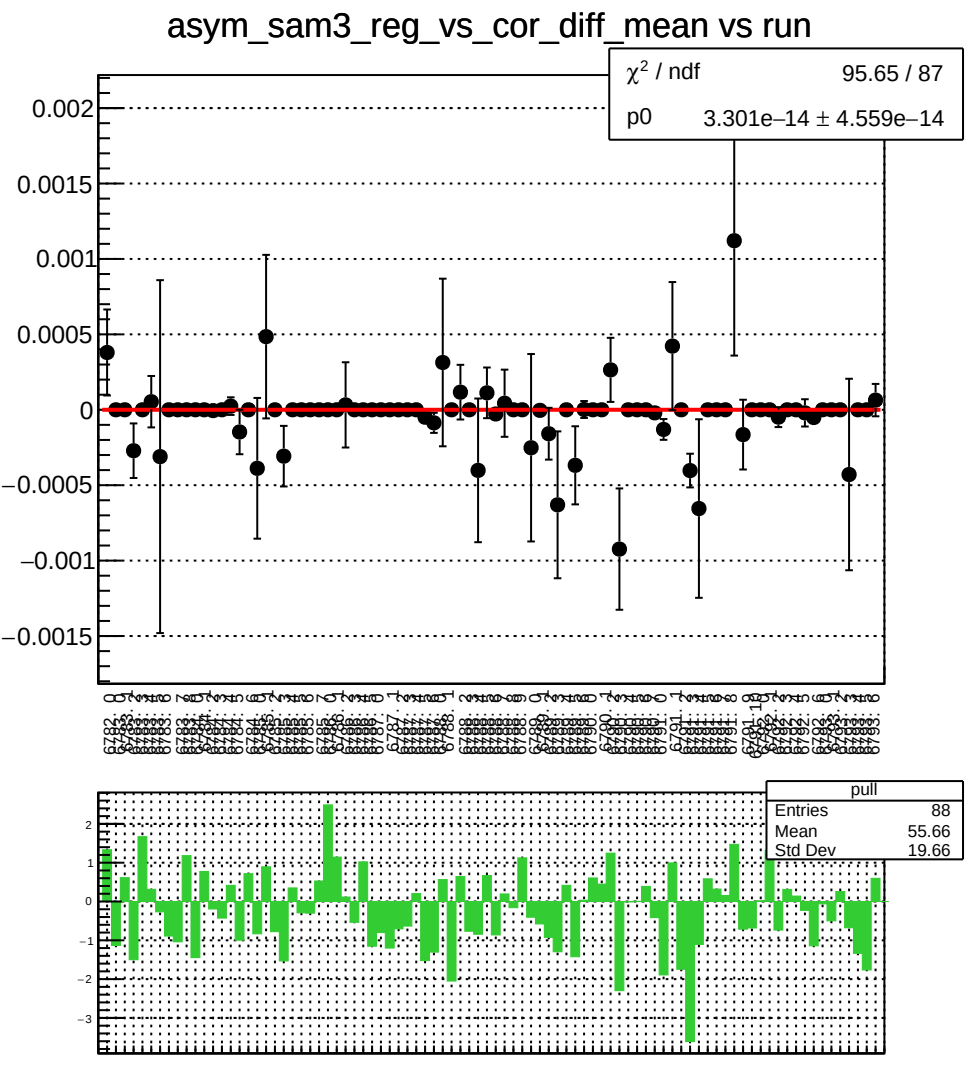

pull1D
Entries 88
Mean −0.01285
Std Dev 0.9616
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

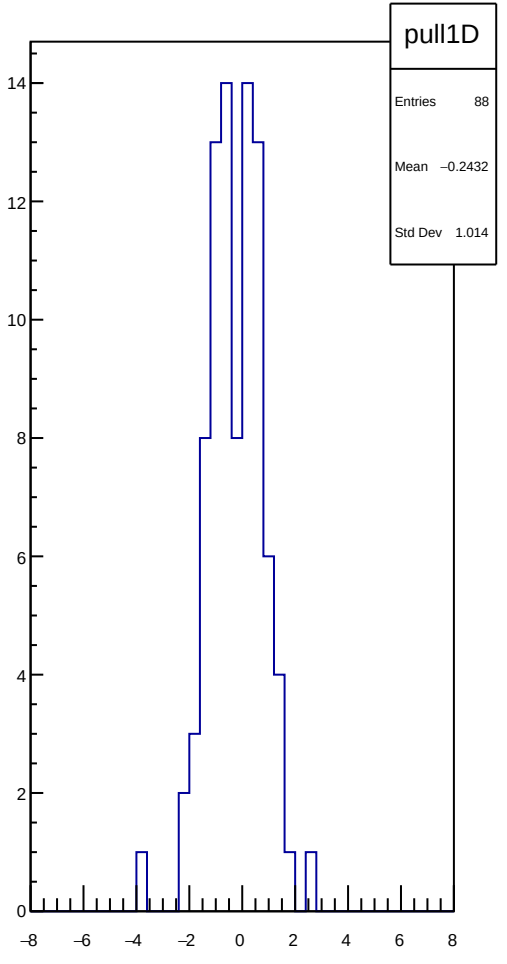

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2459 / 87
p0 996.1 ± 0.7749
1100
1080
1060
1040
1020
1000
980
960
940
920

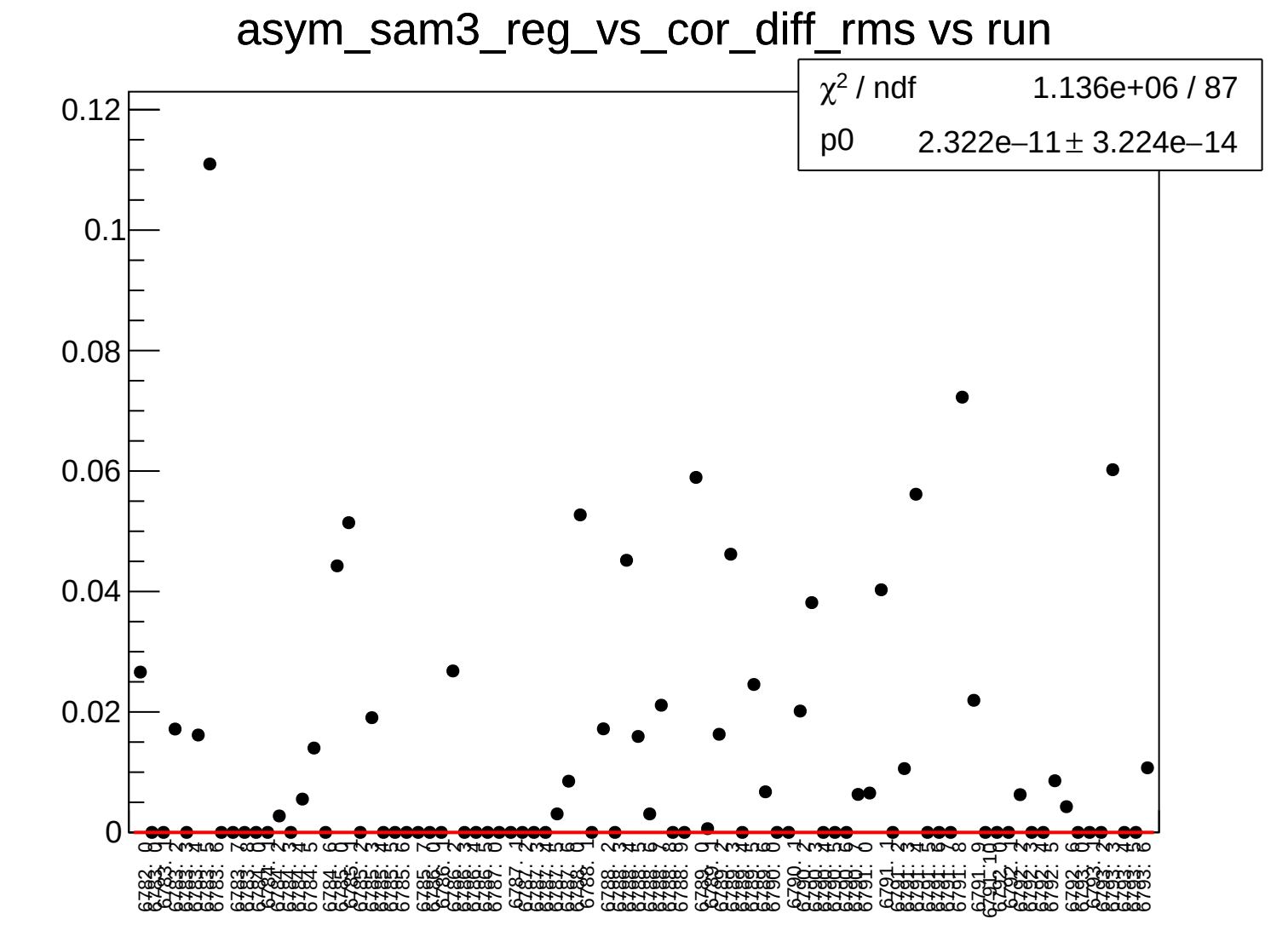

asym_sam3_mean vs run
χ² / ndf 80.18 / 87
p0 4266 ± 1197
pull
Entries 88
Mean −354.3
Std Dev 0

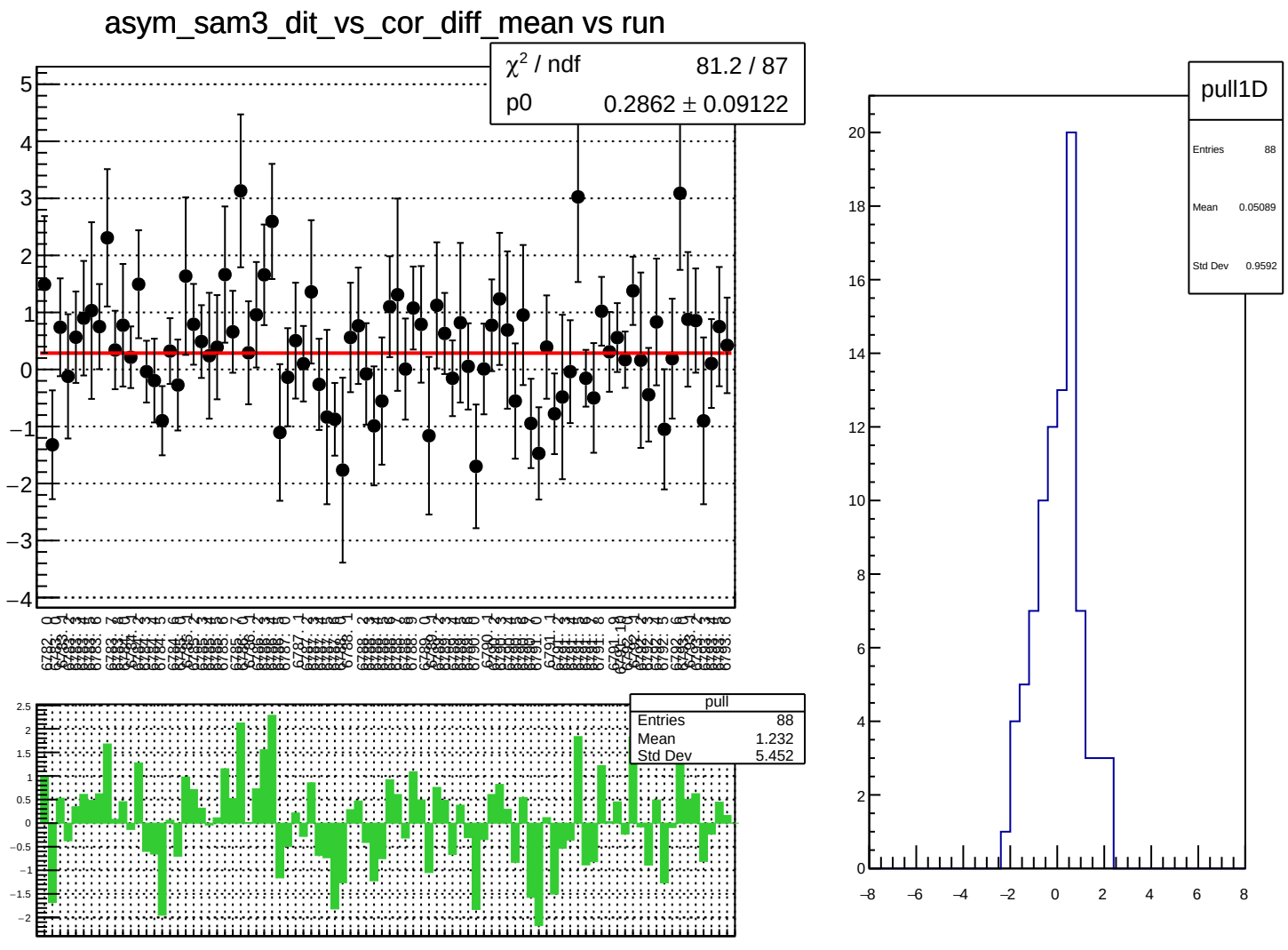

pull1D
Entries 88
Mean 0.01111
Std Dev 0.9544

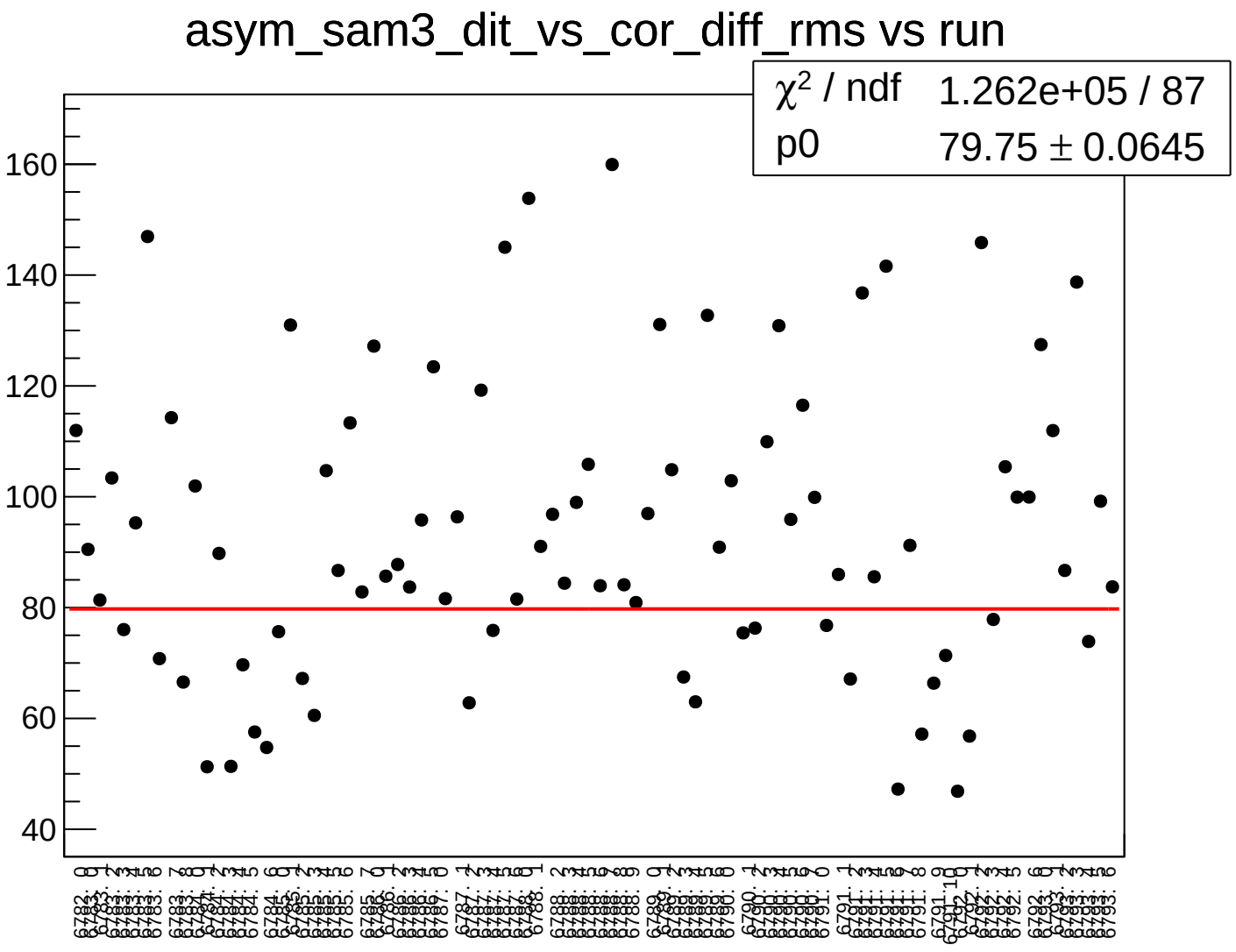

asym_sam3_rms vs run
χ² / ndf 4517 / 87
p0 1087 ± 0.8463
1200
1150
1100
1050
1000

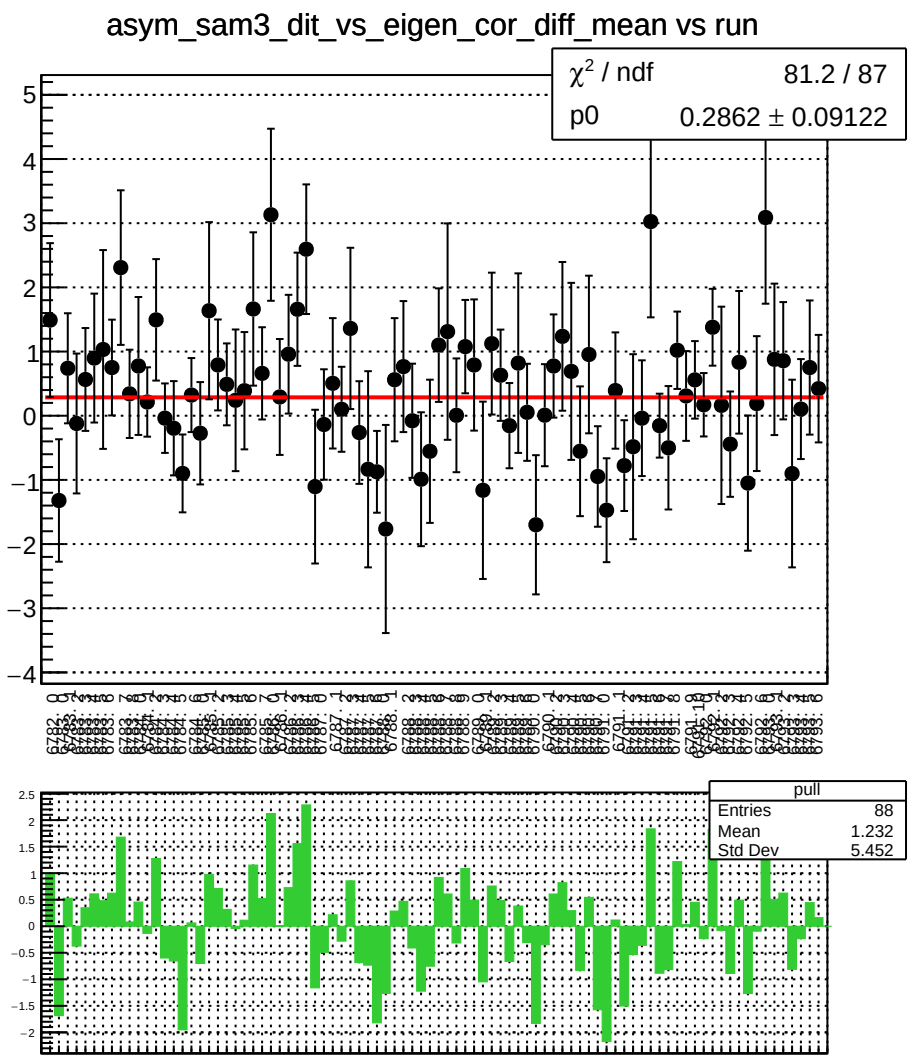

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 95.65 / 87
p0 3.301e−14 ± 4.559e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 55.66
Std Dev 19.66
2
1
0
−1
−2
−3

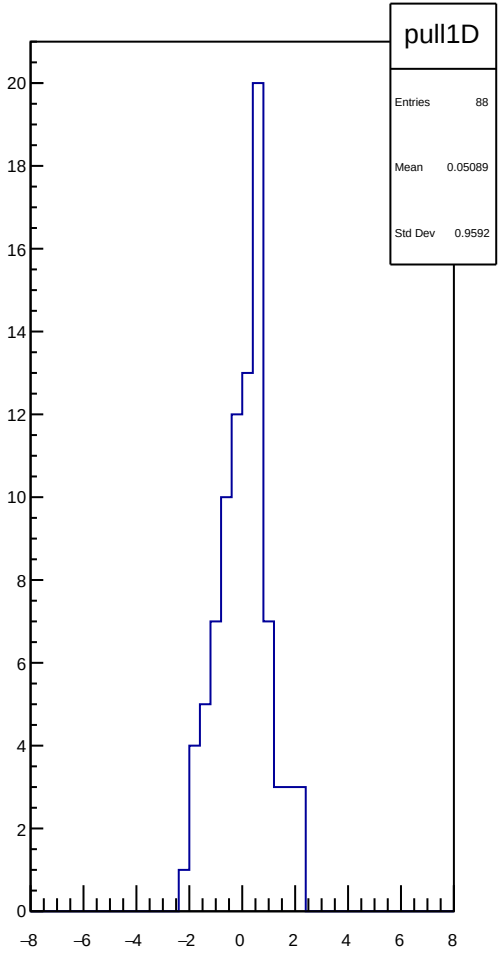

pull1D
Entries 88
Mean −0.2432
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

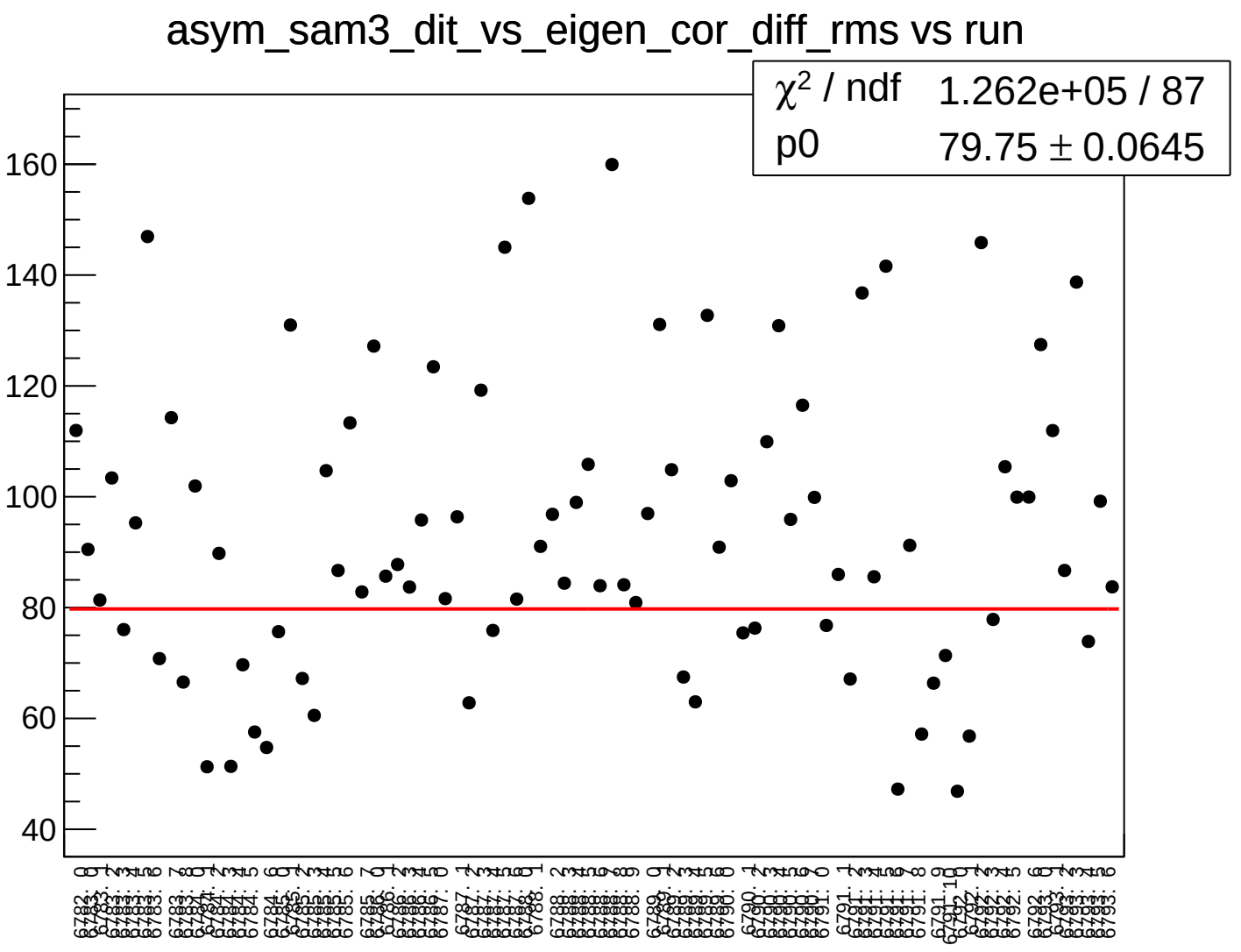

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 87
p0 2.322e−11 ± 3.224e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

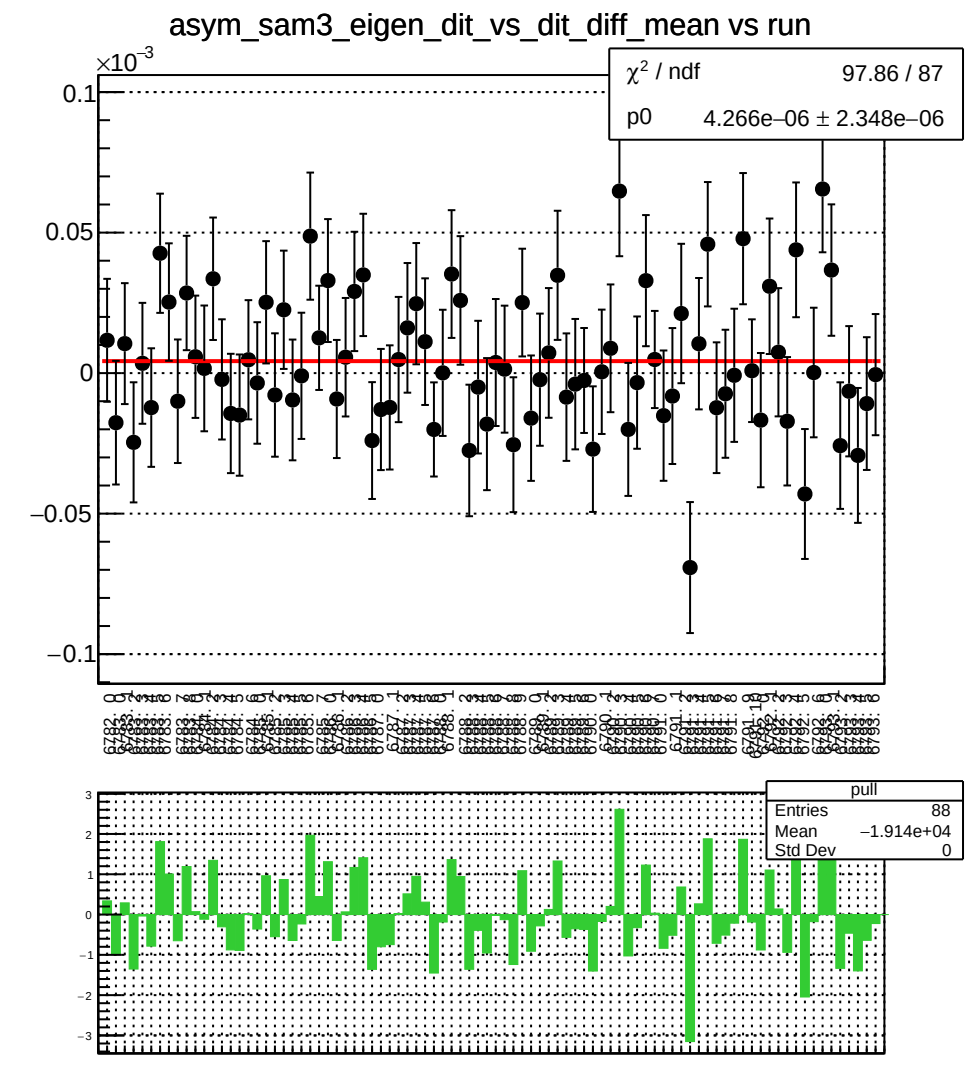

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 81.2 / 87
p0 0.2862 ± 0.09122
pull
Entries 88
Mean 1.232
Std Dev 5.452
pull1D
Entries 88
Mean 0.05089
Std Dev 0.9592

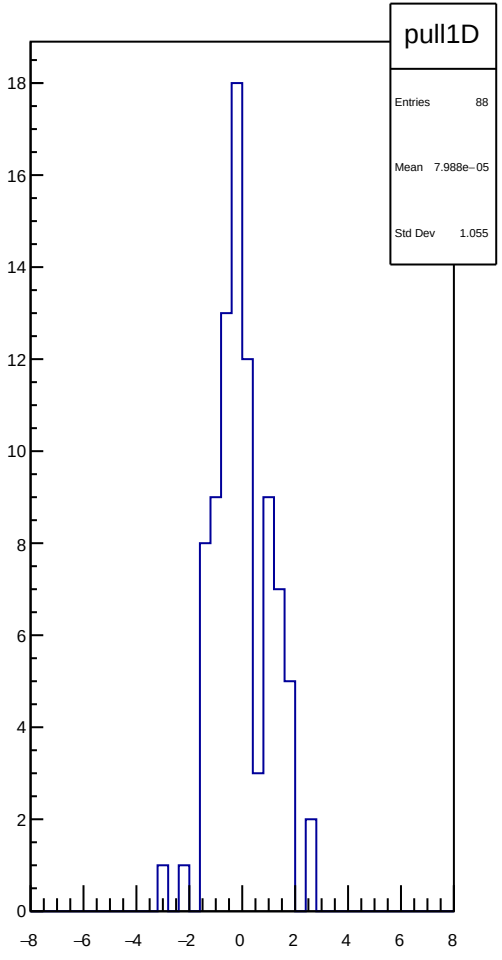

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 79.75 ± 0.0645
160
140
120
100
80
60
40

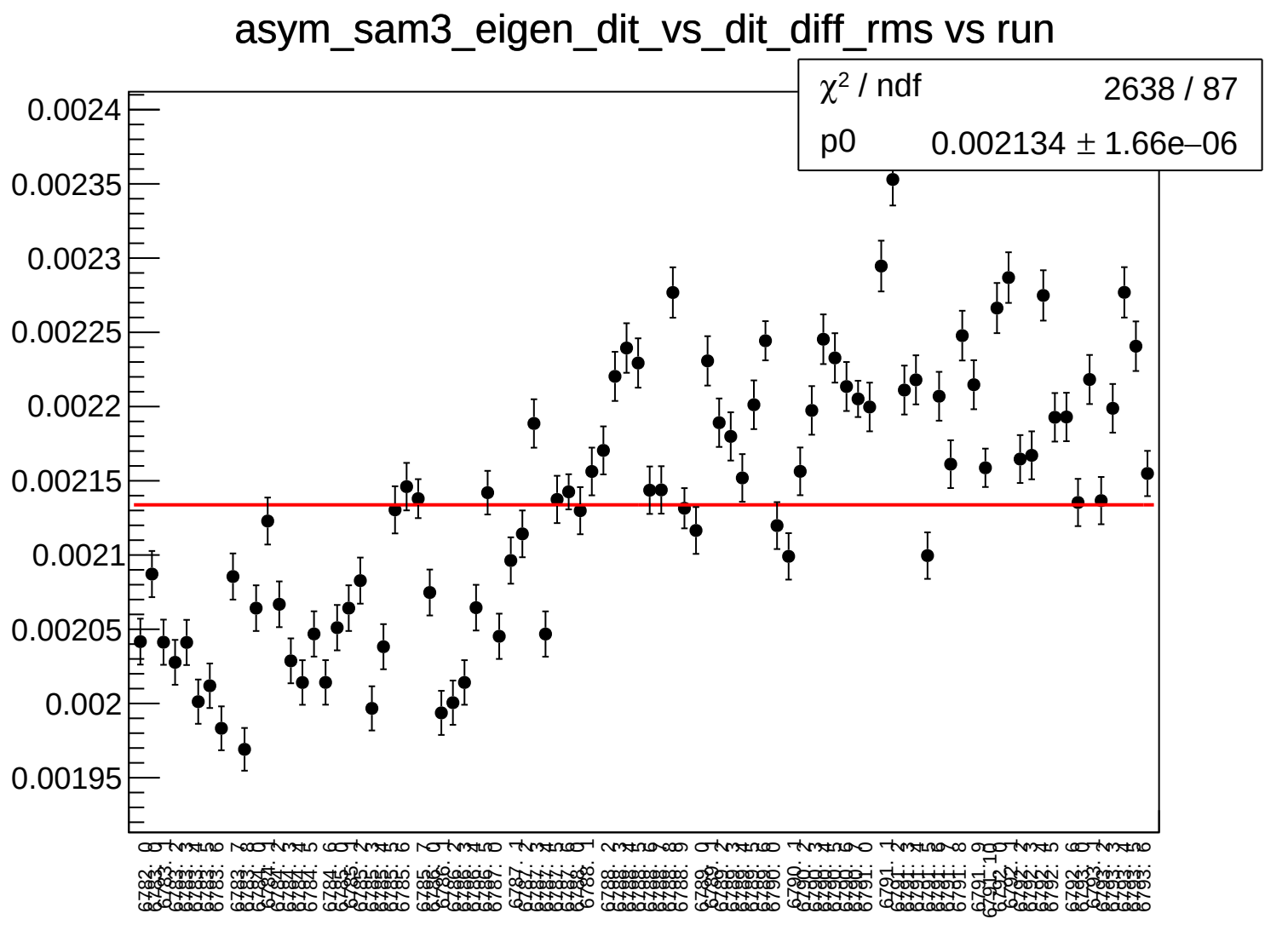

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.2 / 87
p0 0.2862 ± 0.09122
pull
Entries 88
Mean 1.232
Std Dev 5.452

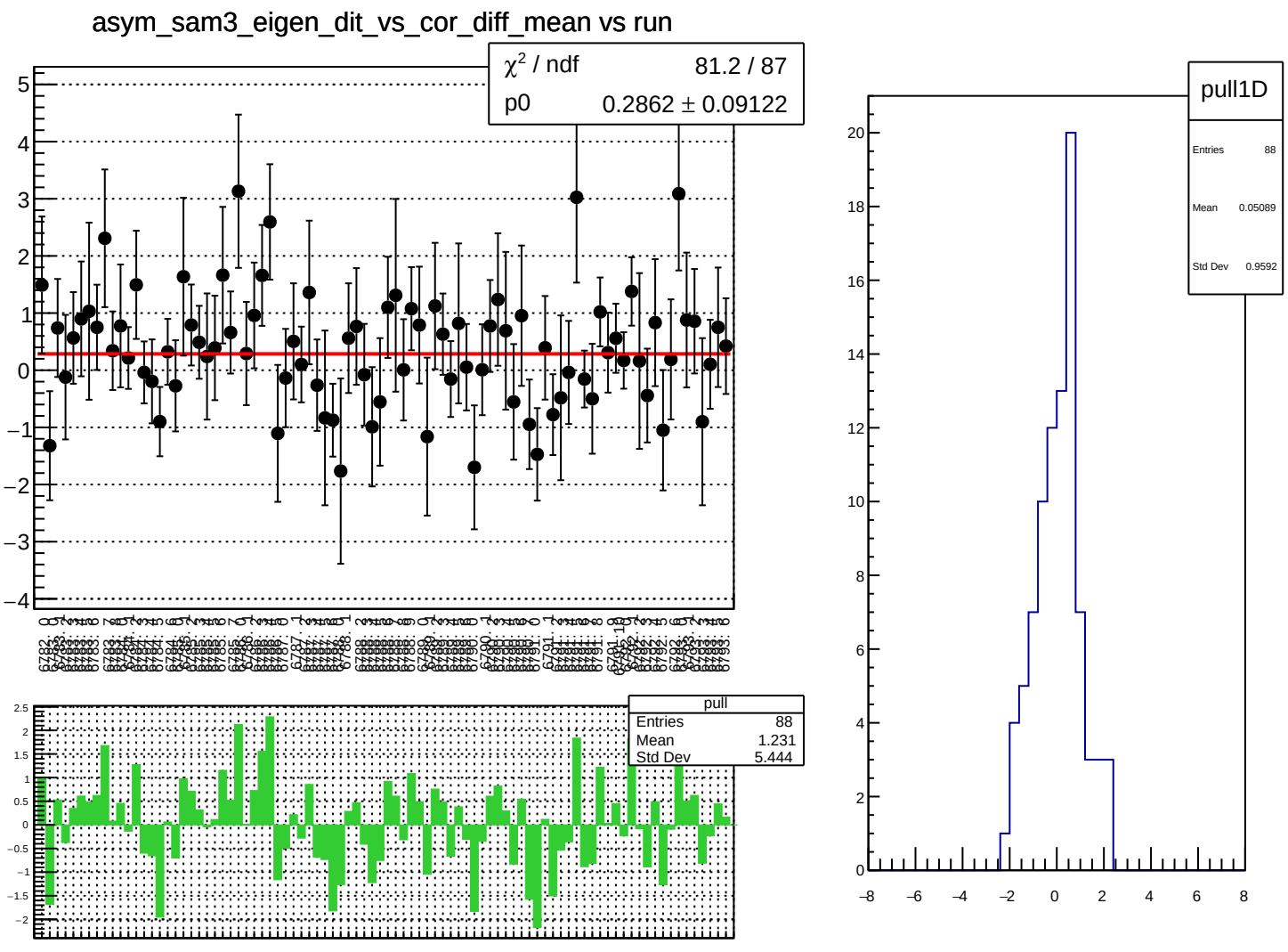

pull1D
Entries 88
Mean 0.05089
Std Dev 0.9592

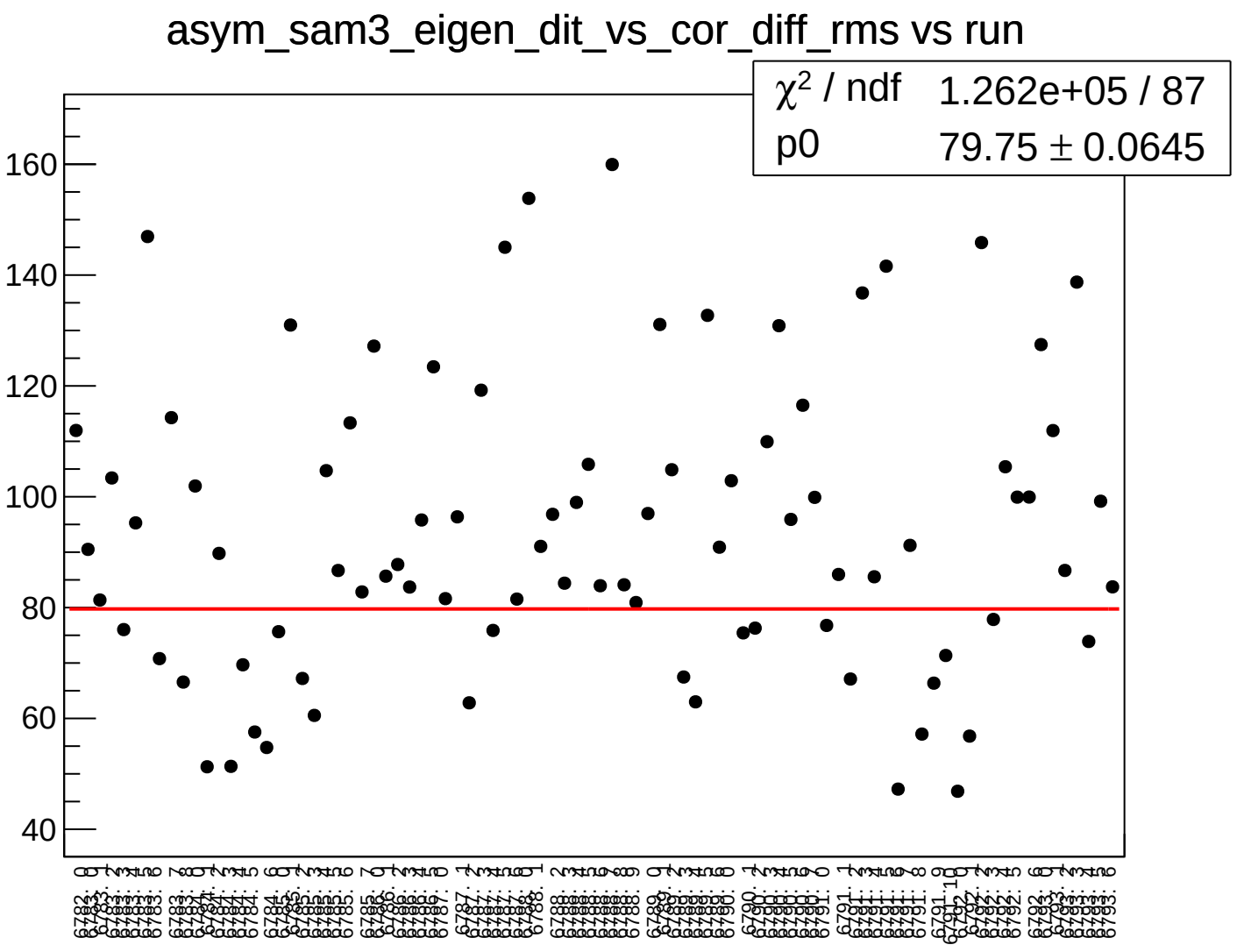

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 79.75 ± 0.0645
160
140
120
100
80
60
40

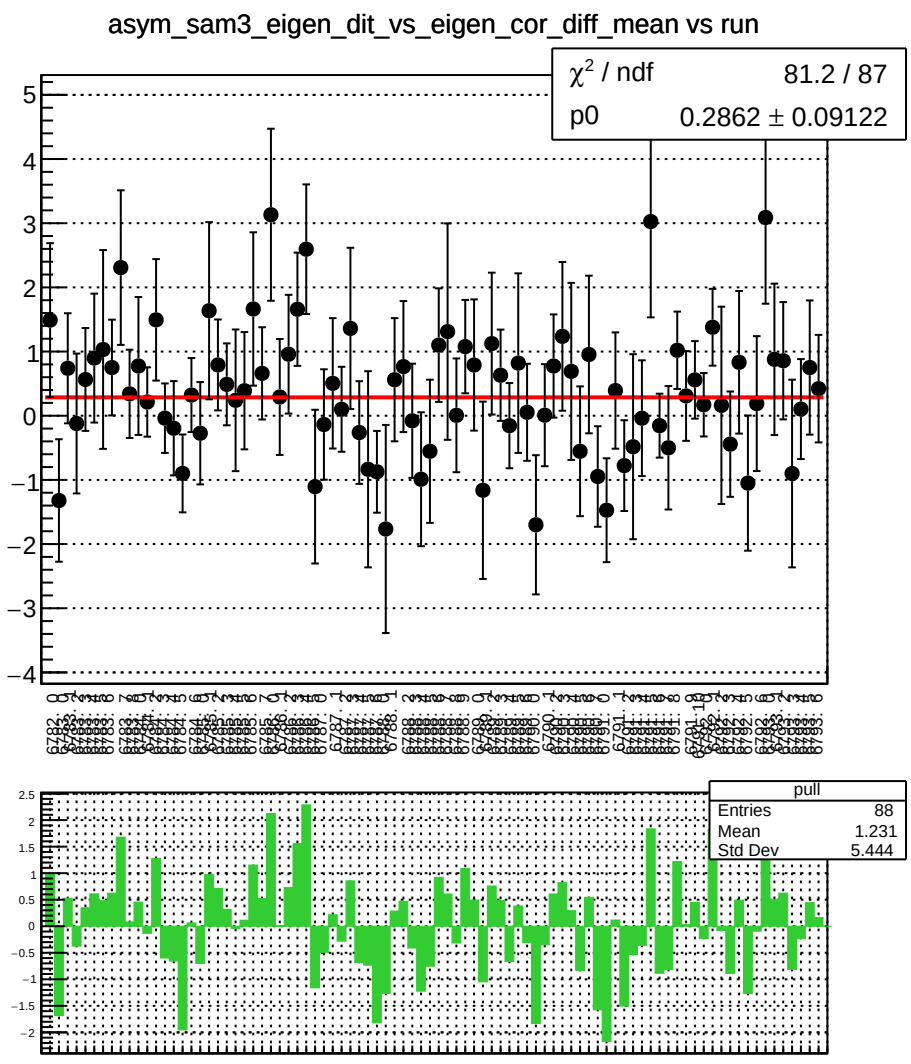

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.86 / 87
p0 4.266e−06 ± 2.348e−06
pull
Entries 88
Mean −1.914e+04
Std Dev 0

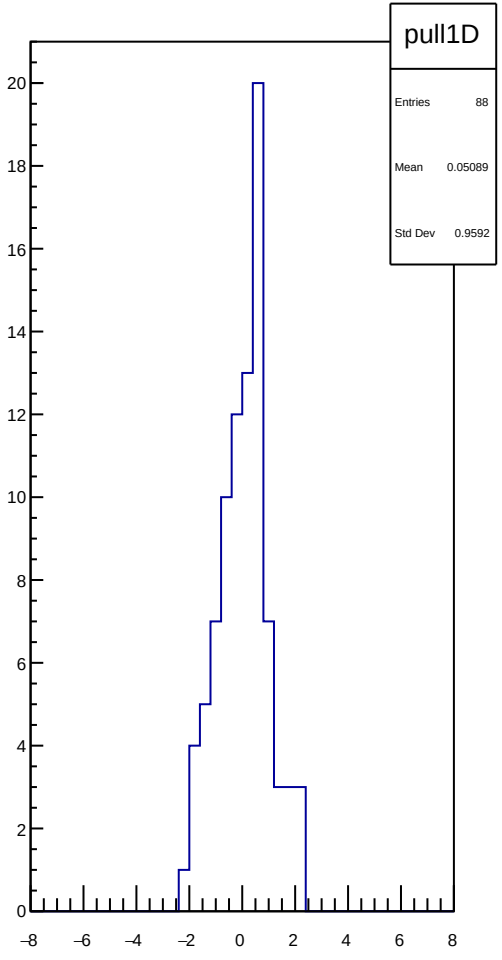

pull1D
Entries 88
Mean 7.988e−05
Std Dev 1.055

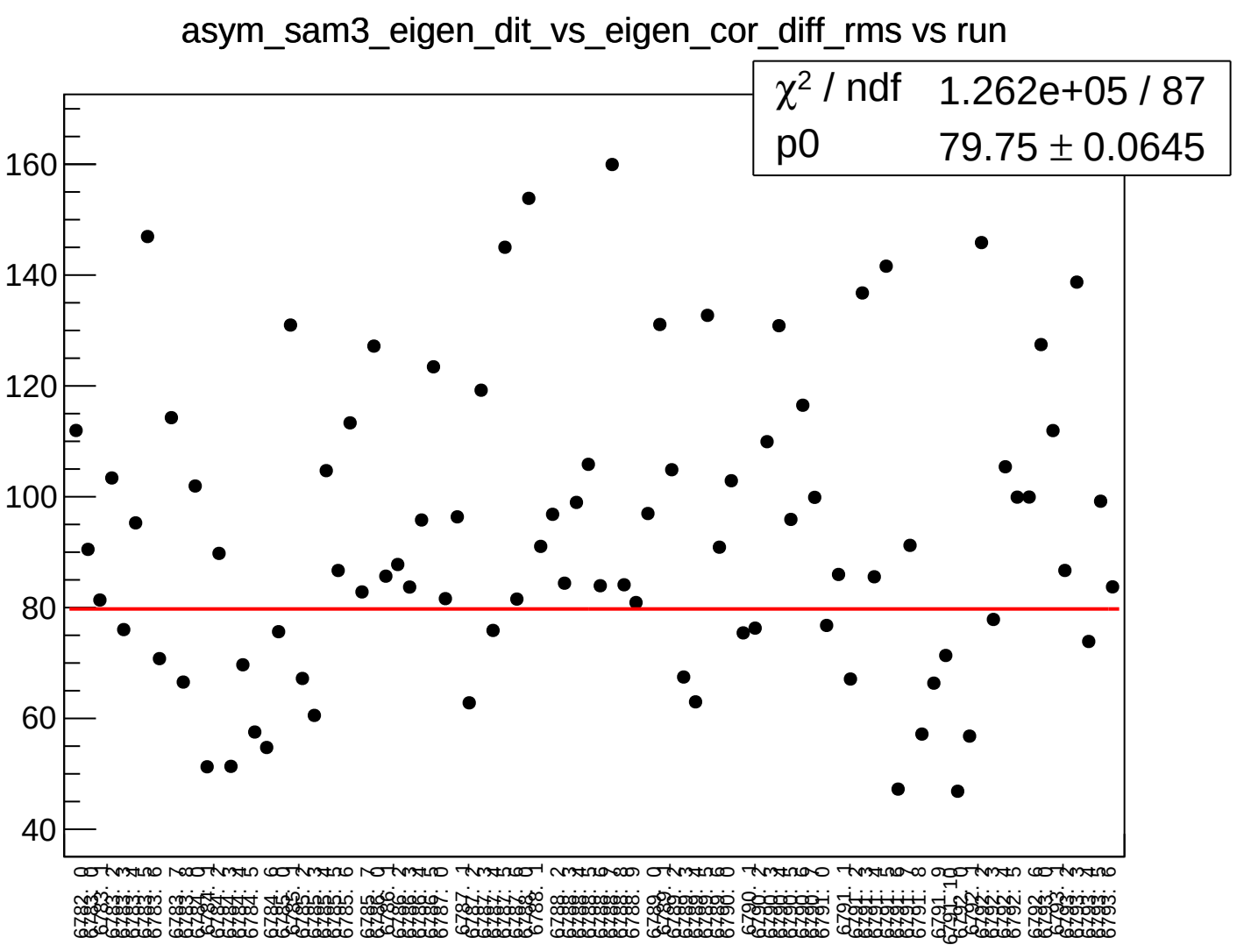

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2638 / 87
p0 0.002134 ± 1.66e−06
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195

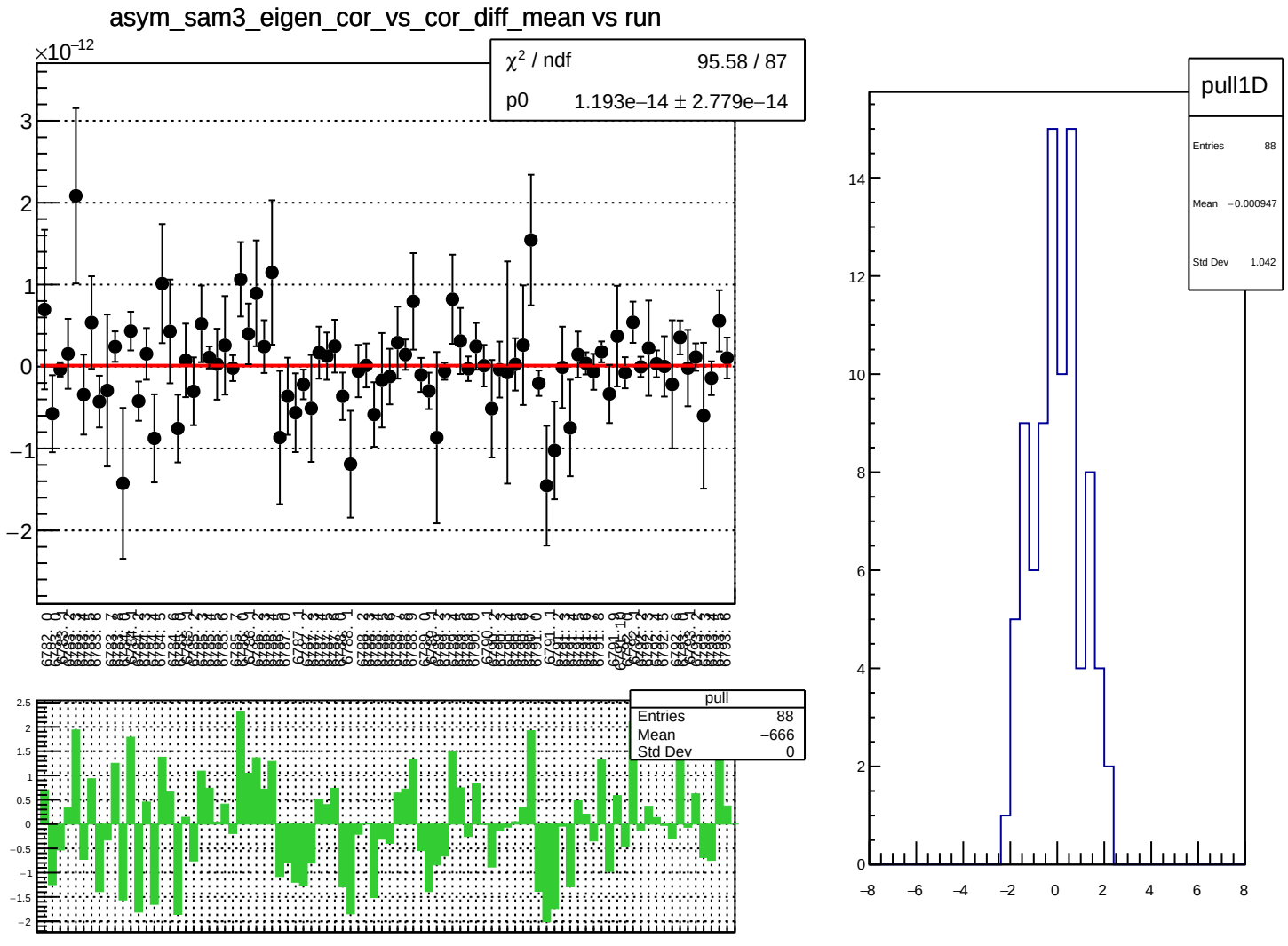

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.2 / 87
p0 0.2862 ± 0.09122
pull
Entries 88
Mean 1.231
Std Dev 5.444
pull1D
Entries 88
Mean 0.05089
Std Dev 0.9592

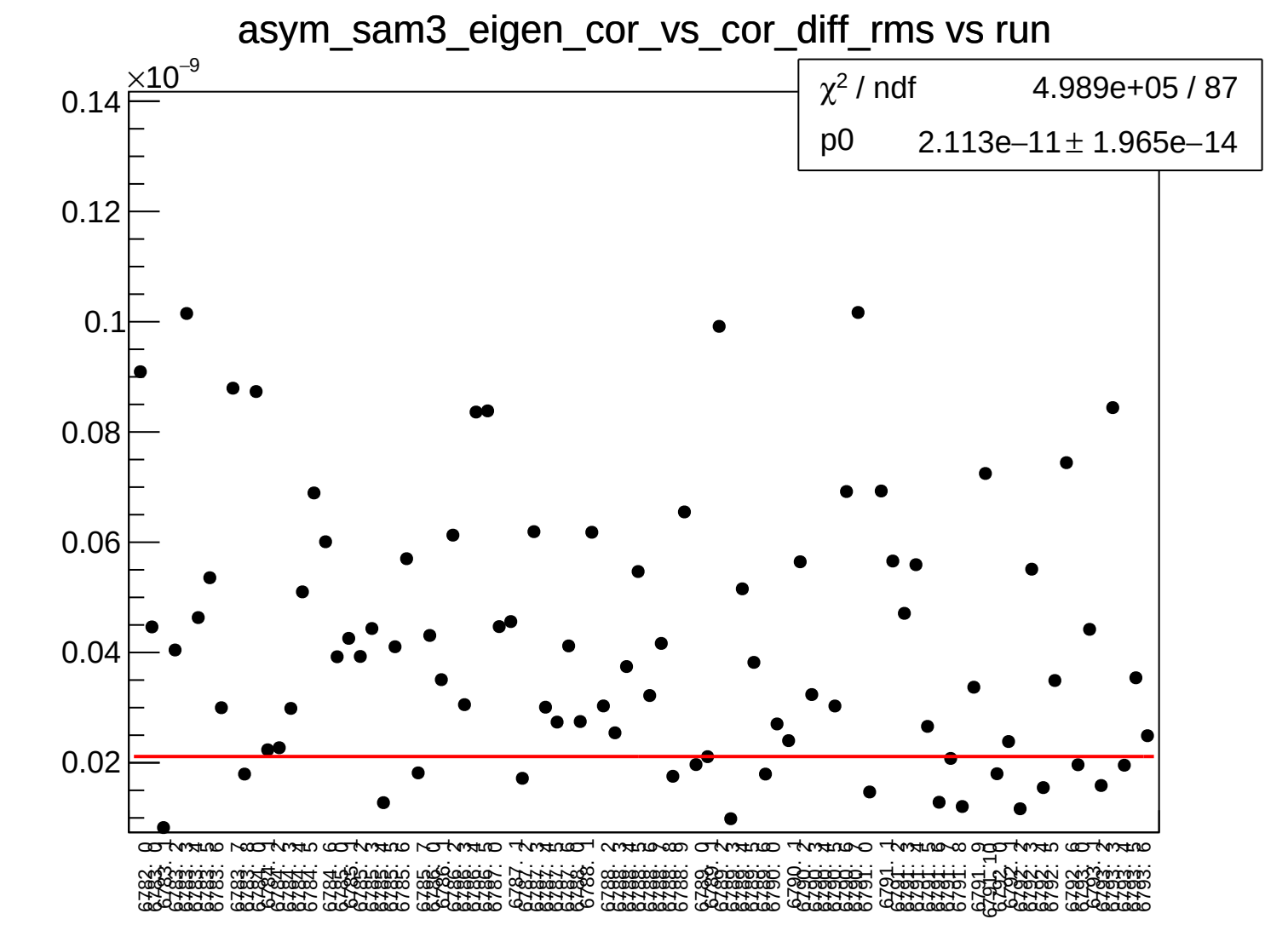

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 79.75 ± 0.0645
160
140
120
100
80
60
40

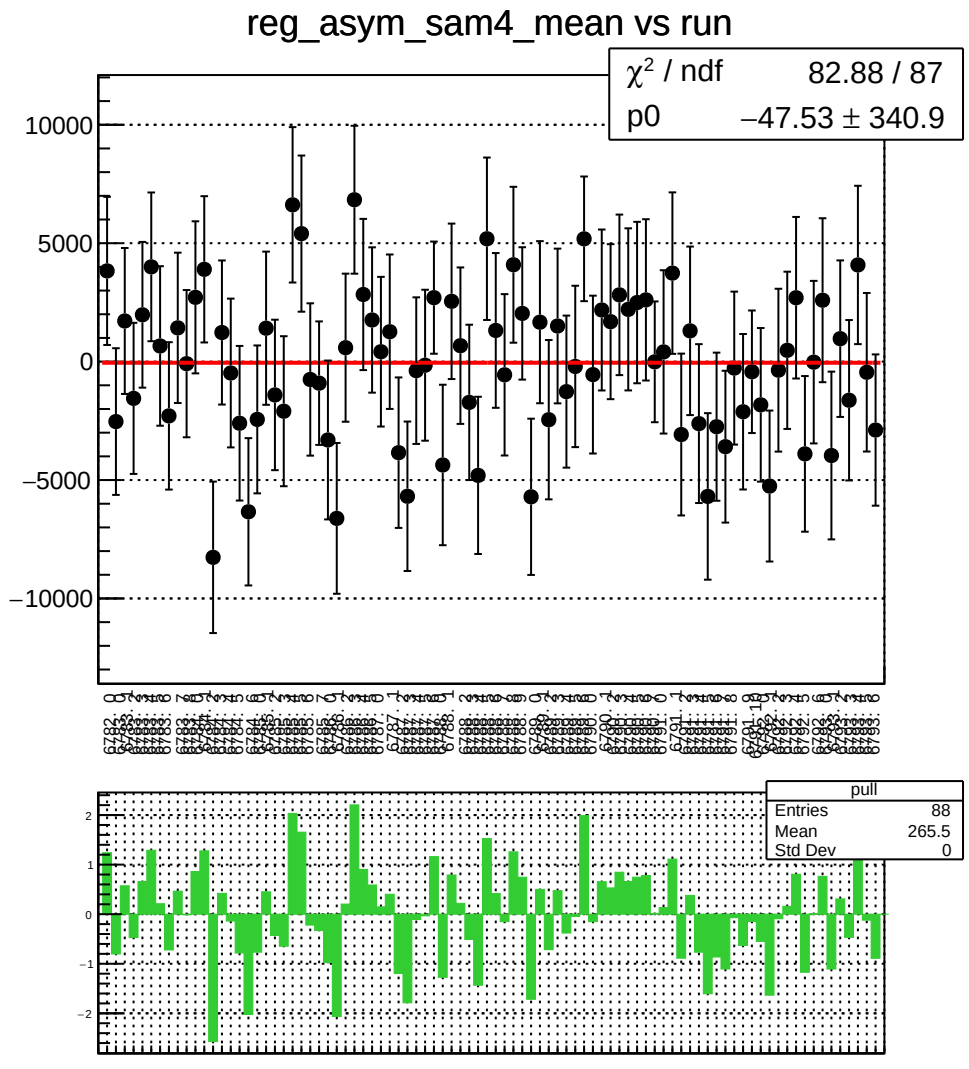

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.2 / 87
p0 0.2862 ± 0.09122
pull
Entries 88
Mean 1.231
Std Dev 5.444

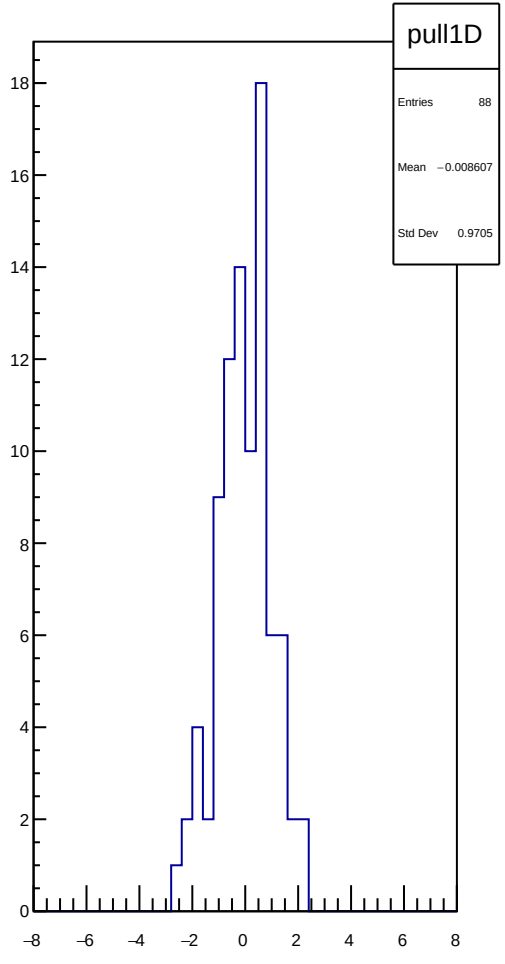

pull1D
Entries 88
Mean 0.05089
Std Dev 0.9592

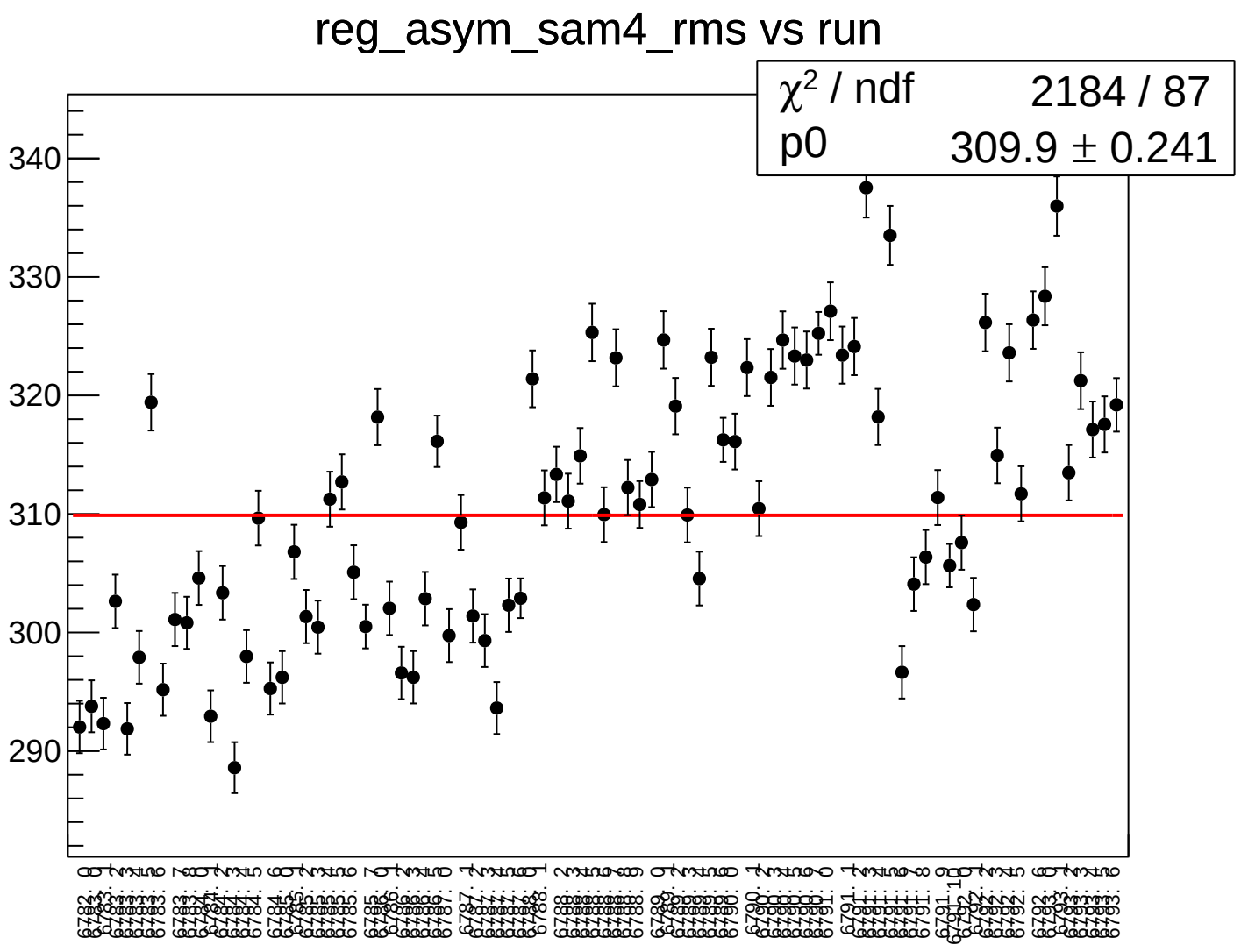

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 79.75 ± 0.0645
160
140
120
100
80
60
40

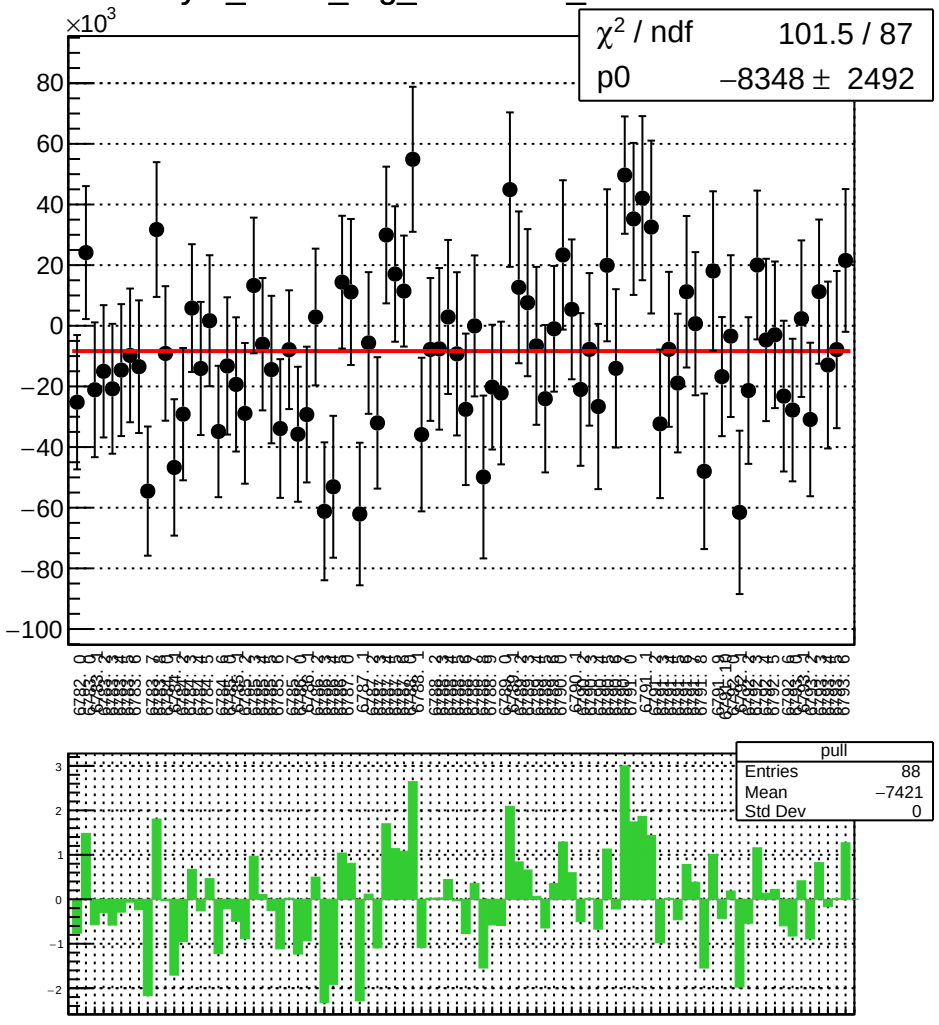

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.58 / 87
p0 1.193e−14 ± 2.779e−14
pull
Entries 88
Mean −666
Std Dev 0
pull1D
Entries 88
Mean −0.000947
Std Dev 1.042

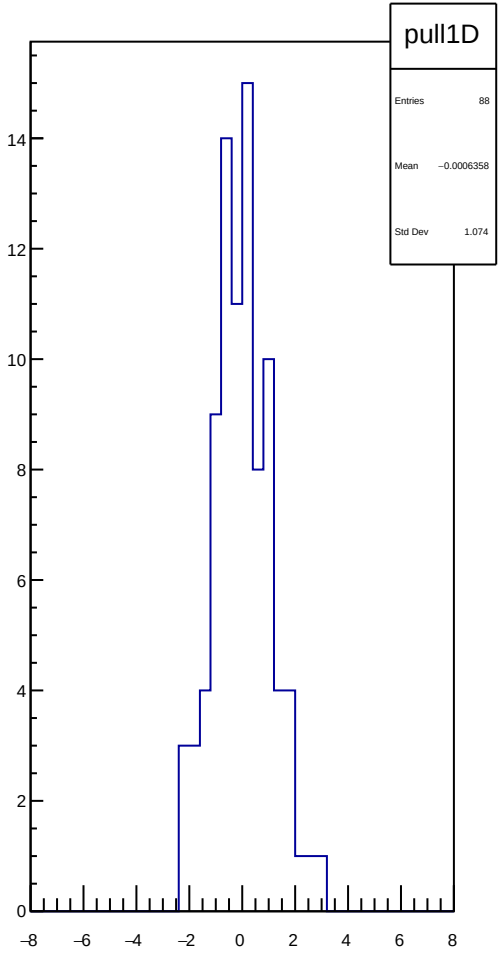

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.989e+05 / 87
p0 2.113e−11 ± 1.965e−14

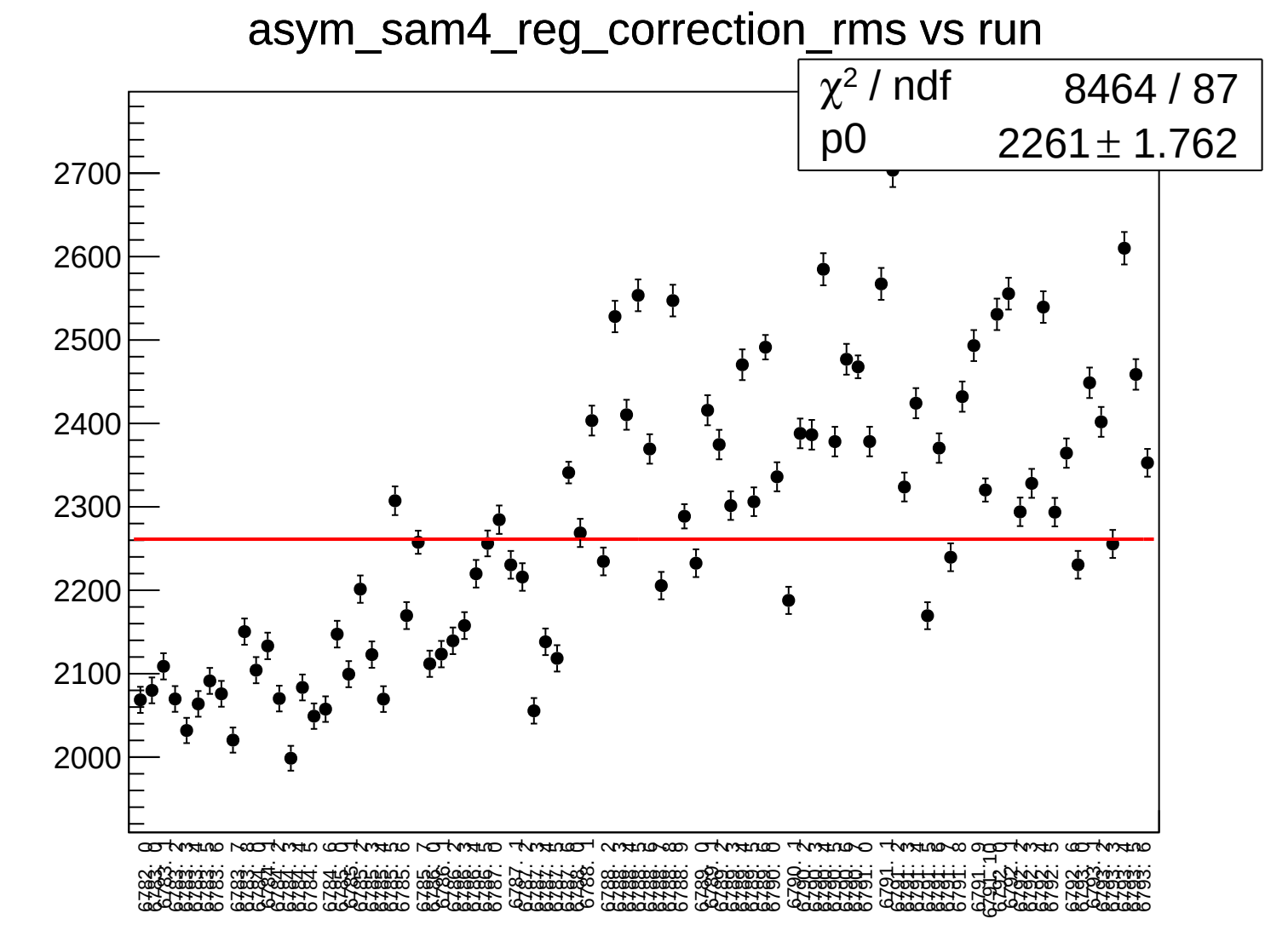

reg_asym_sam4_mean vs run
χ² / ndf 82.88 / 87
p0 −47.53 ± 340.9
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 265.5
Std Dev 0
2
1
0
−1
−2

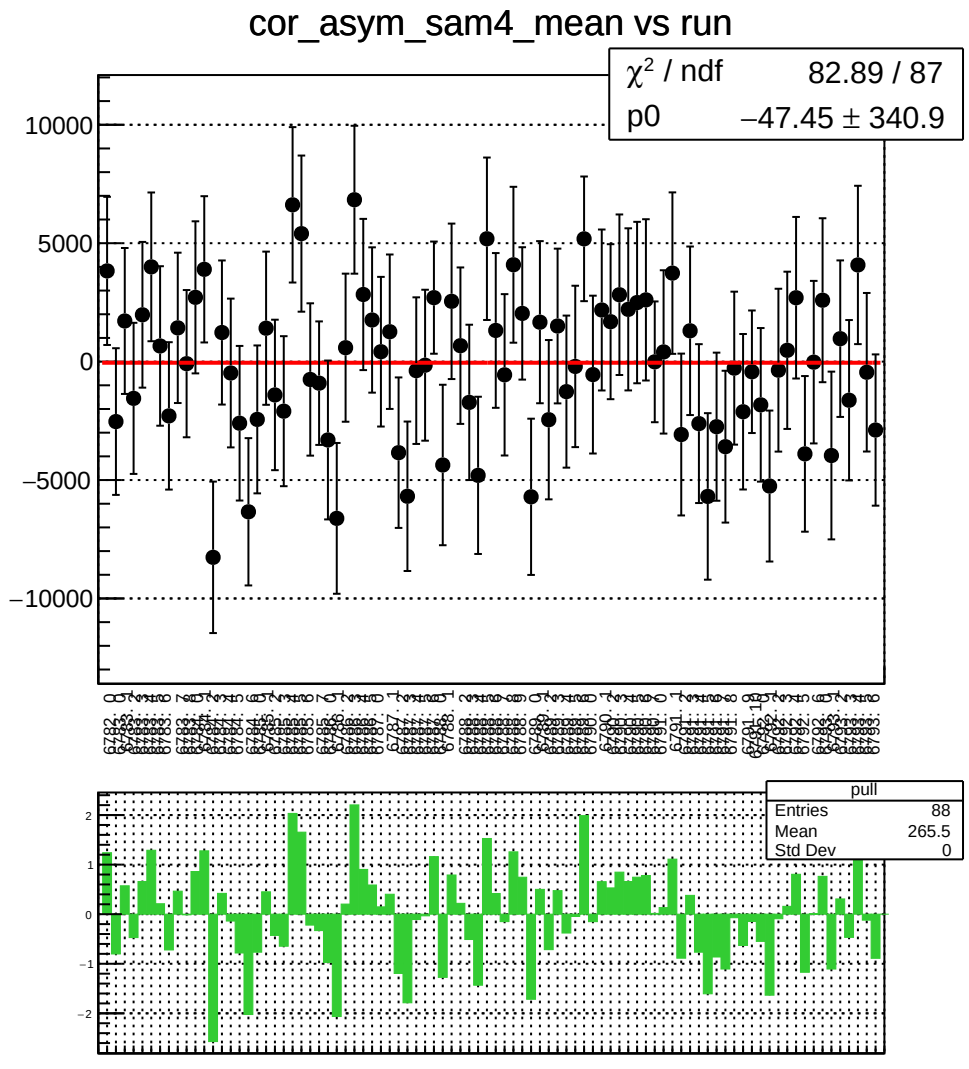

pull1D
Entries 88
Mean −0.008607
Std Dev 0.9705
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

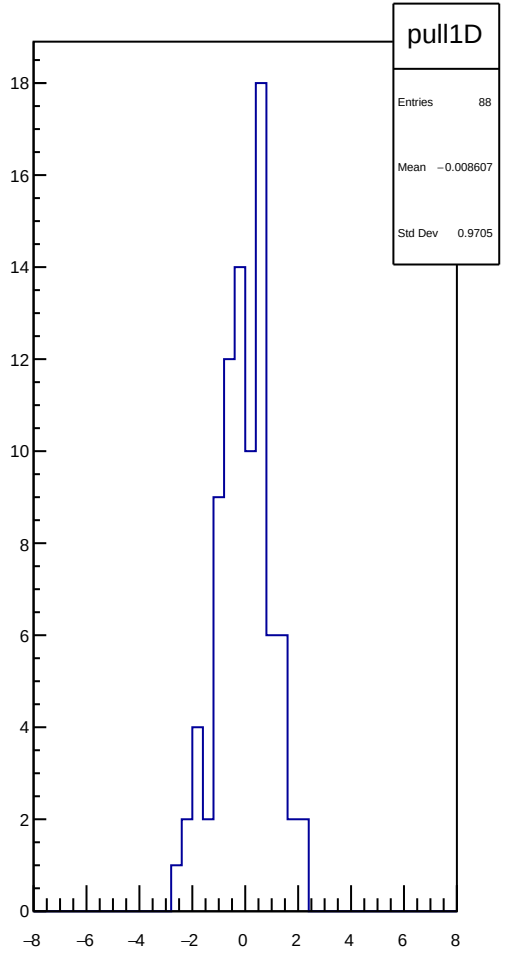

reg_asym_sam4_rms vs run
χ² / ndf 2184 / 87
p0 309.9 ± 0.241
340
330
320
310
300
290

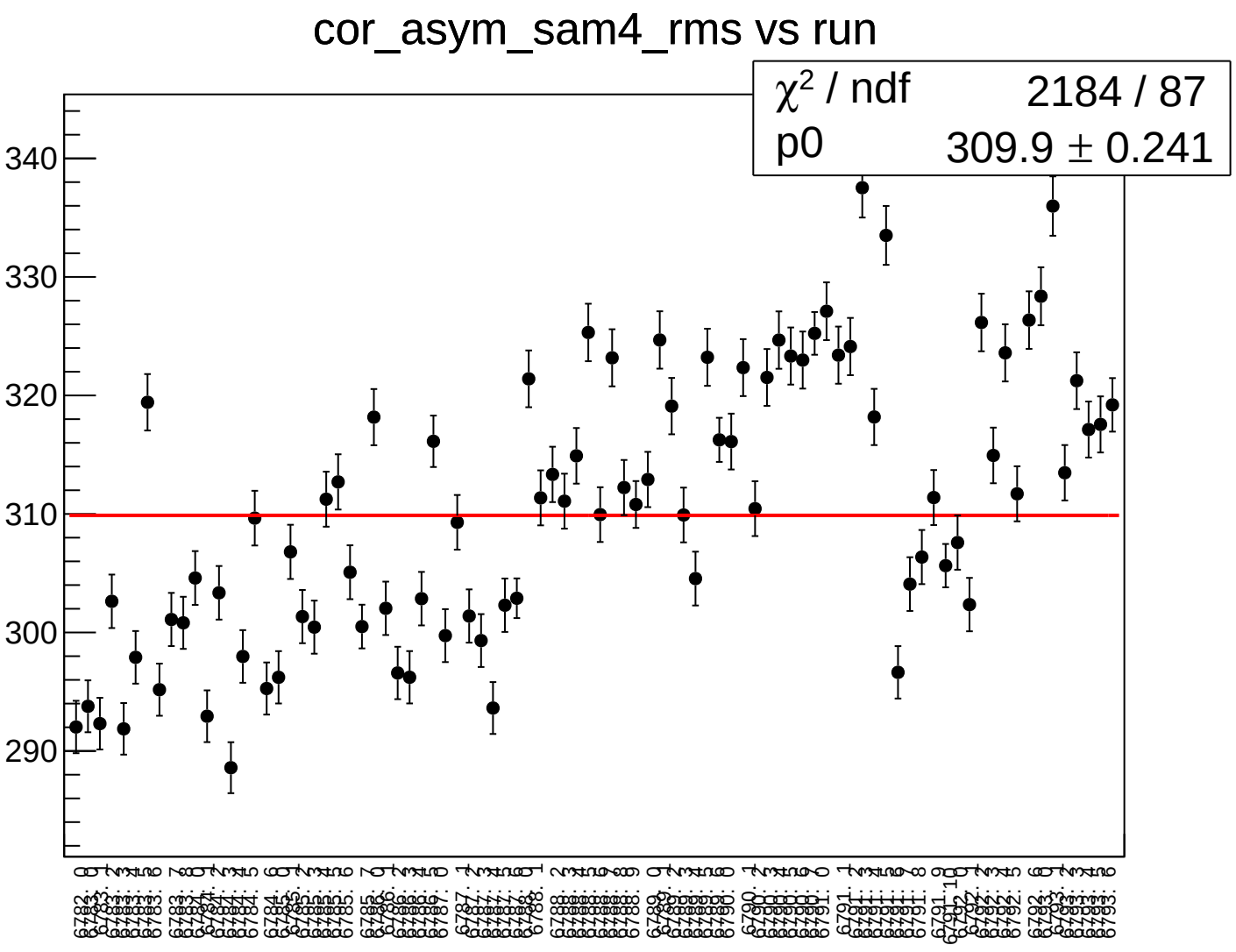

asym_sam4_reg_correction_mean vs run
χ² / ndf 101.5 / 87
p0 −8348 ± 2492
pull
Entries 88
Mean −7421
Std Dev 0

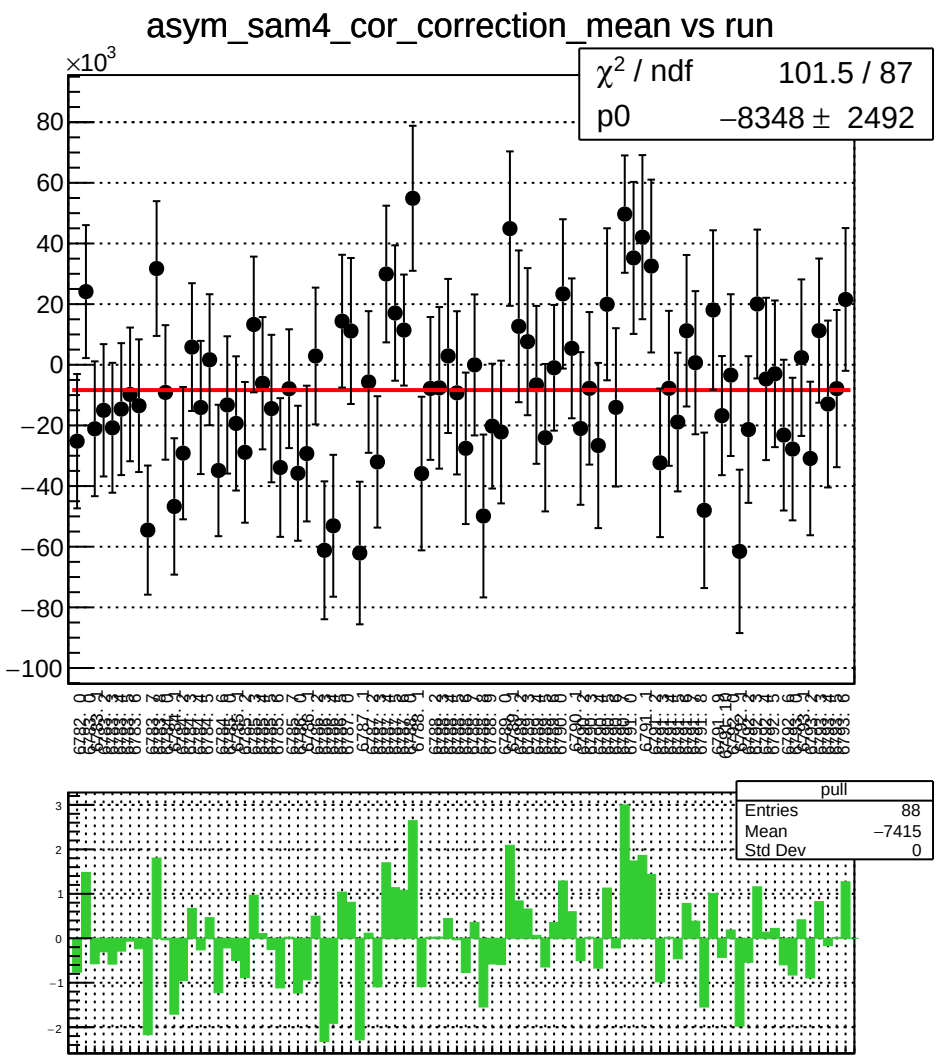

pull1D
Entries 88
Mean −0.0006358
Std Dev 1.074

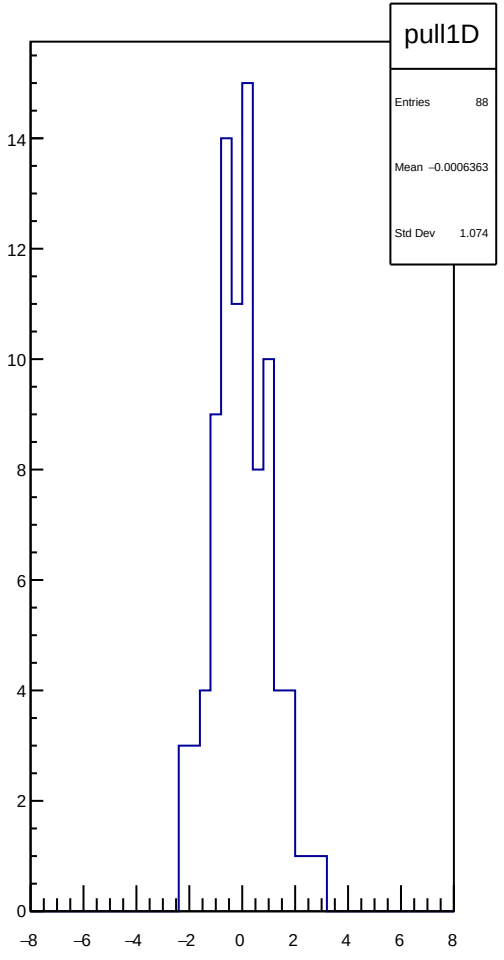

asym_sam4_reg_correction_rms vs run
χ² / ndf 8464 / 87
p0 2261 ± 1.762
2700
2600
2500
2400
2300
2200
2100
2000

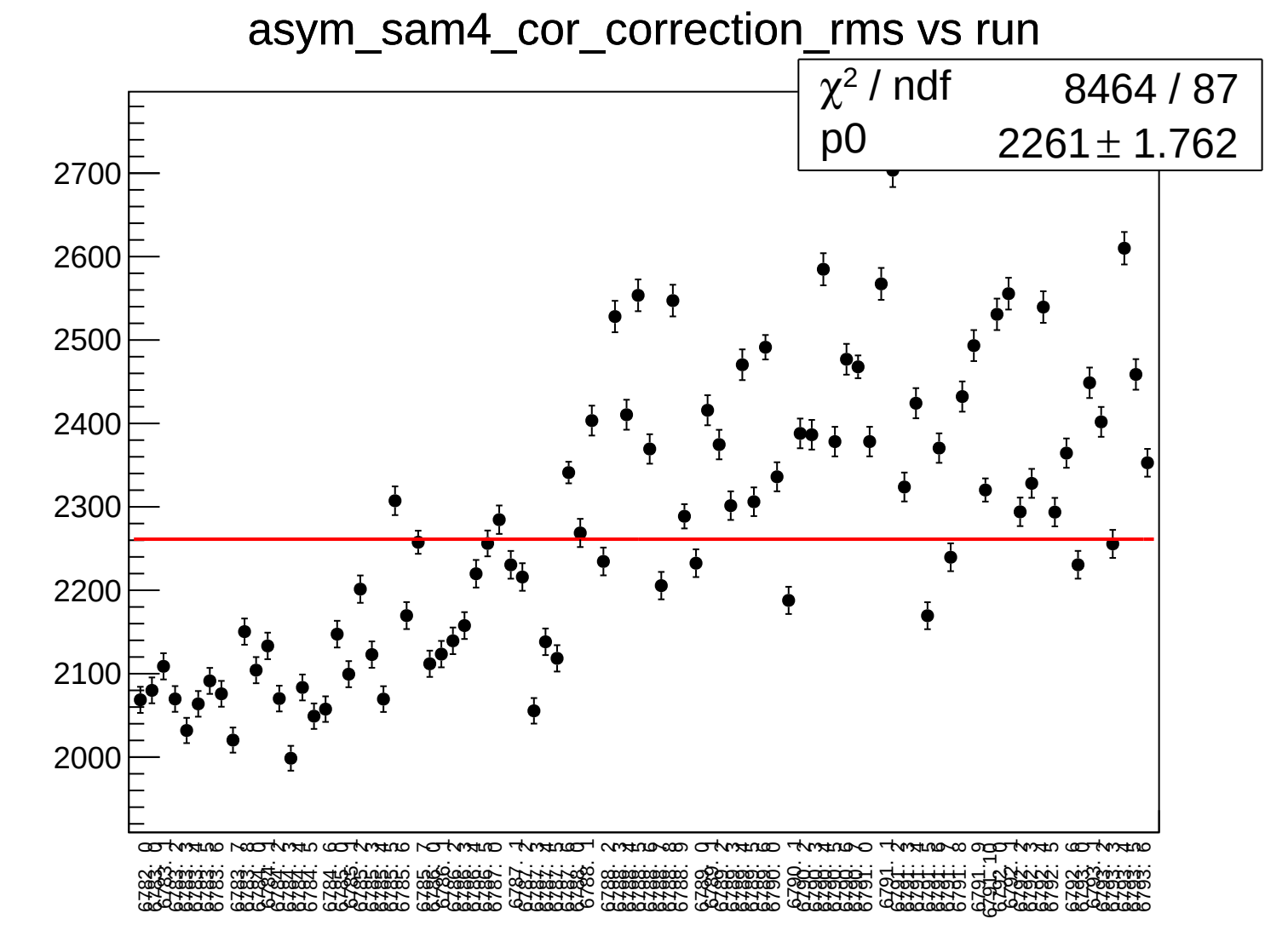

cor_asym_sam4_mean vs run
χ² / ndf 82.89 / 87
p0 −47.45 ± 340.9
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 265.5
Std Dev 0
2
1
0
−1
−2

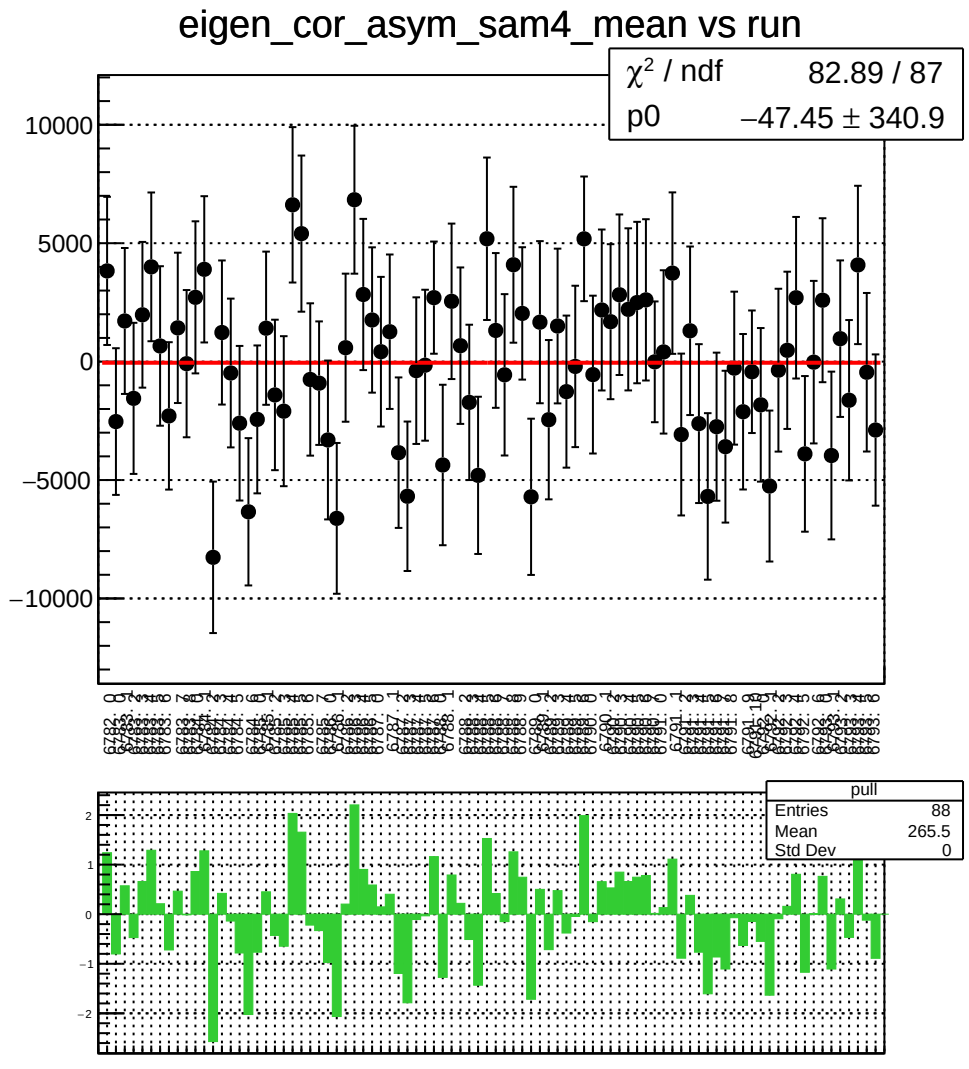

pull1D
Entries 88
Mean −0.008607
Std Dev 0.9705
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

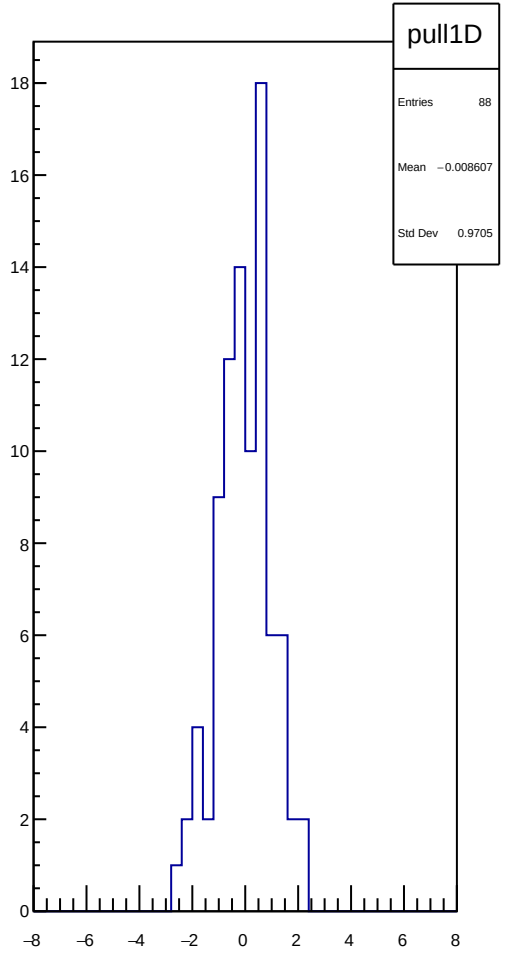

cor_asym_sam4_rms vs run
χ^2 / ndf 2184 / 87
p0 309.9 ± 0.241
340
330
320
310
300
290

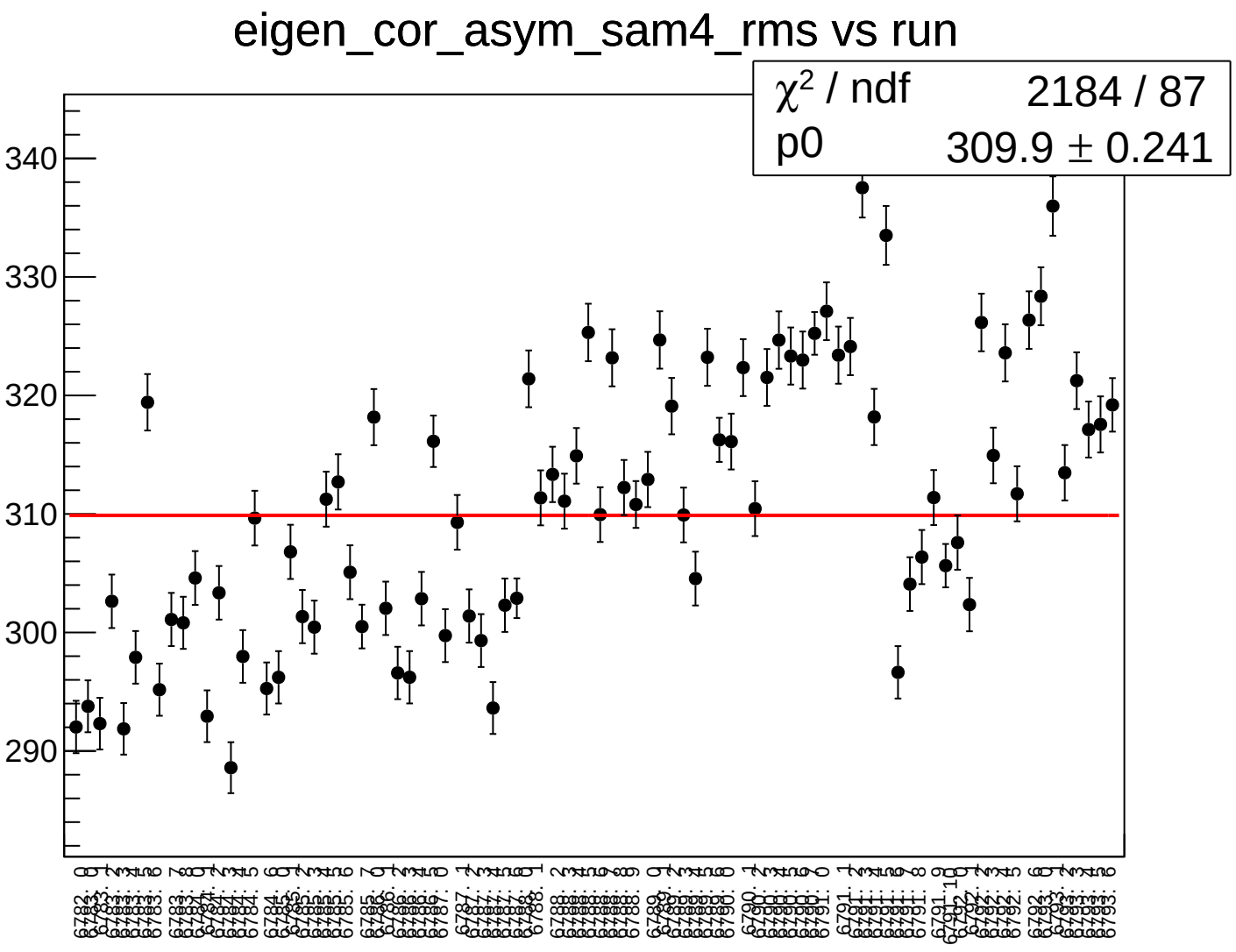

asym_sam4_cor_correction_mean vs run
χ² / ndf 101.5 / 87
p0 −8348 ± 2492
pull
Entries 88
Mean −7415
Std Dev 0

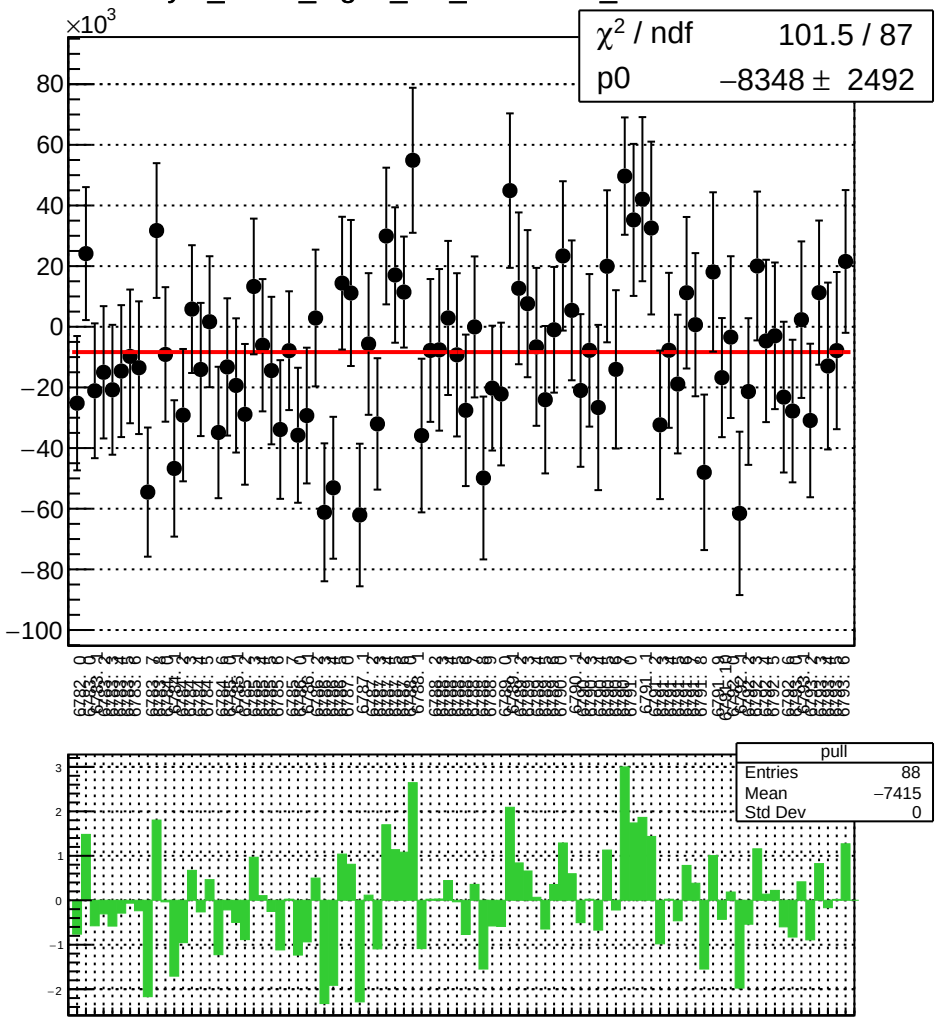

pull1D
Entries 88
Mean −0.0006363
Std Dev 1.074

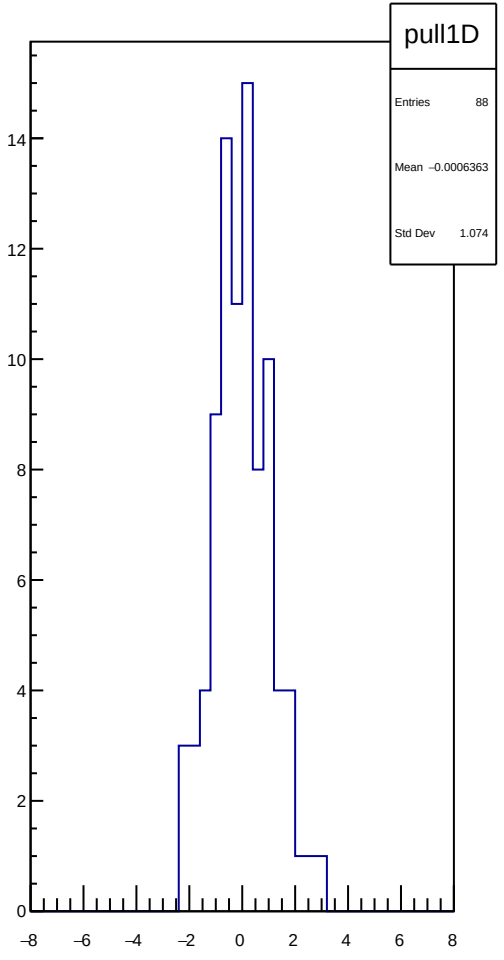

asym_sam4_cor_correction_rms vs run
χ² / ndf 8464 / 87
p0 2261 ± 1.762
2700
2600
2500
2400
2300
2200
2100
2000

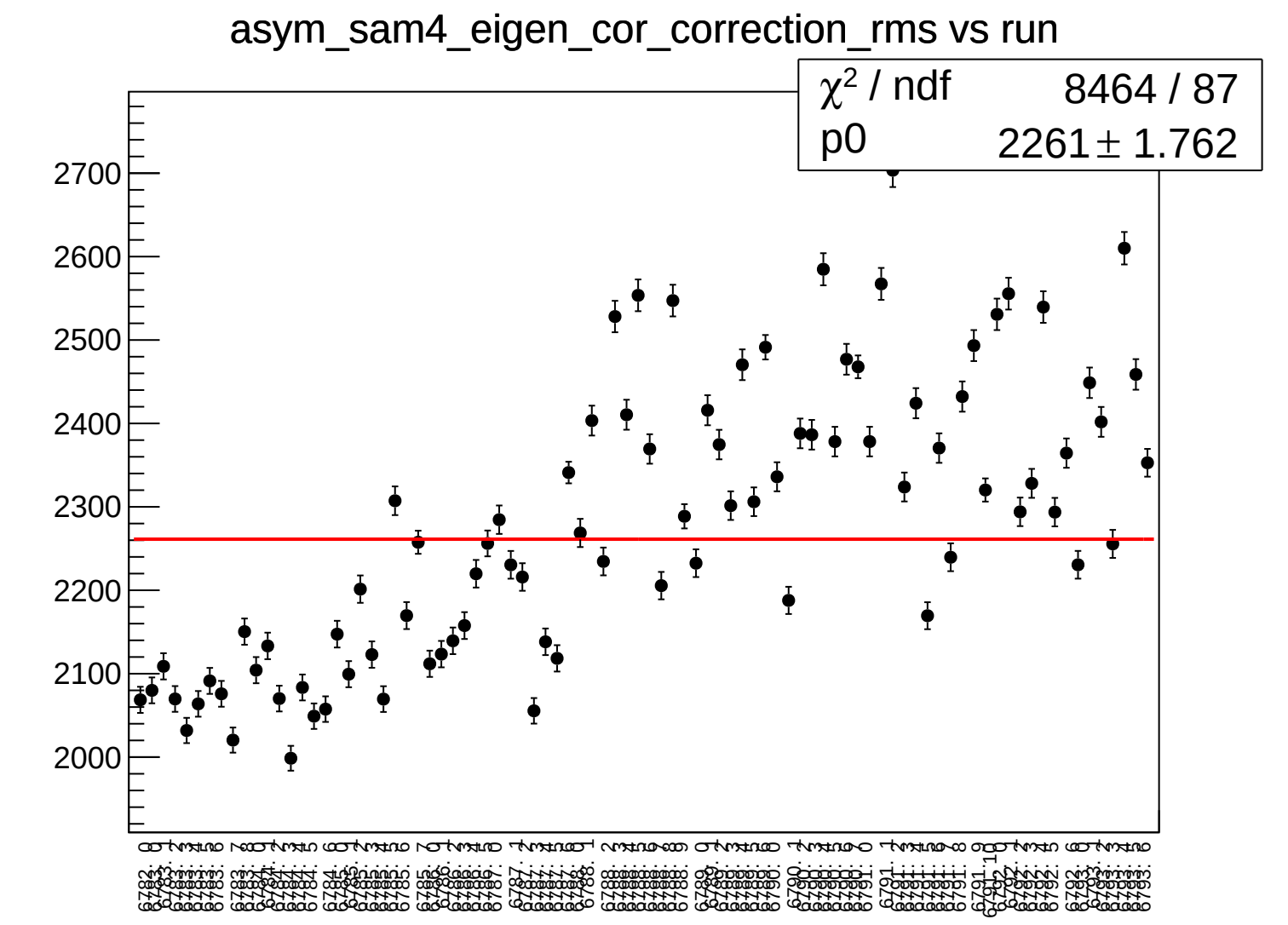

eigen_cor_asym_sam4_mean vs run
χ² / ndf 82.89 / 87
p0 −47.45 ± 340.9
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 265.5
Std Dev 0
2
1
0
−1
−2

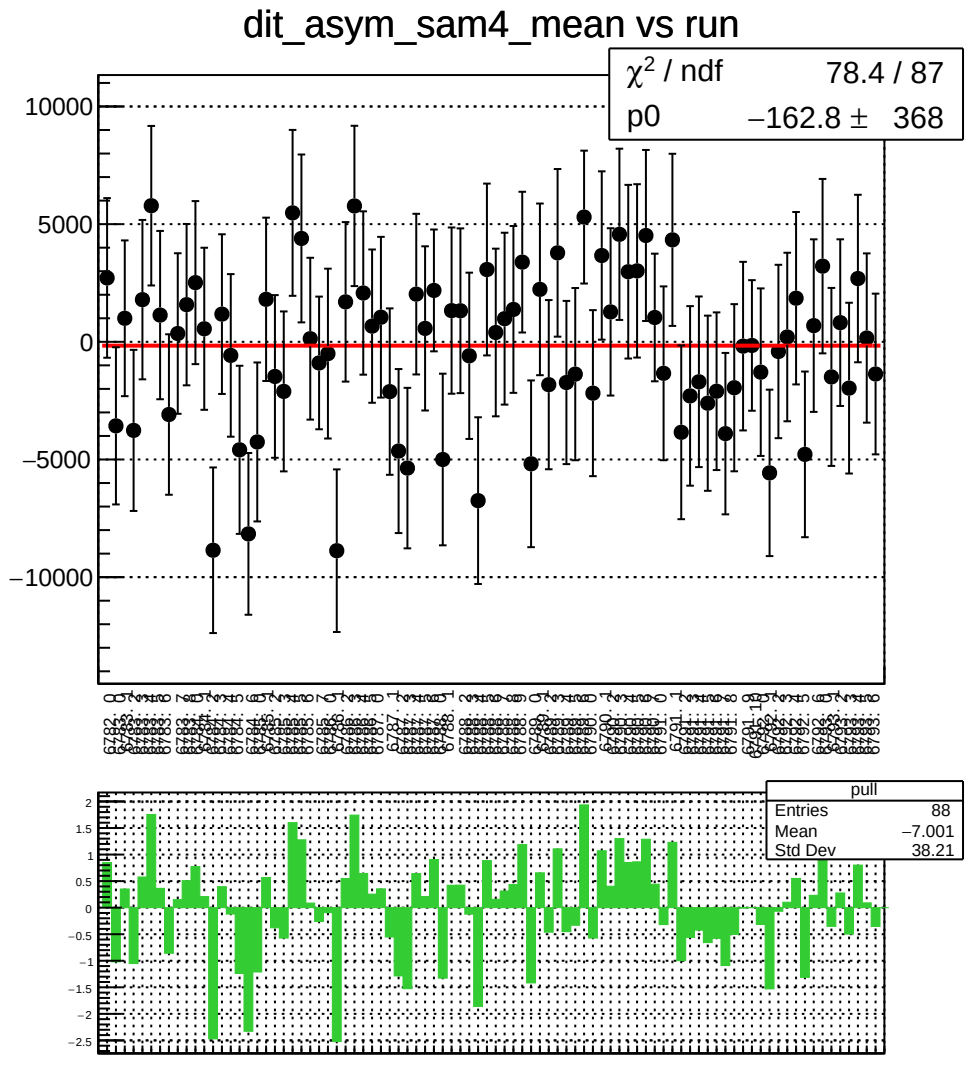

pull1D
Entries 88
Mean −0.008607
Std Dev 0.9705
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

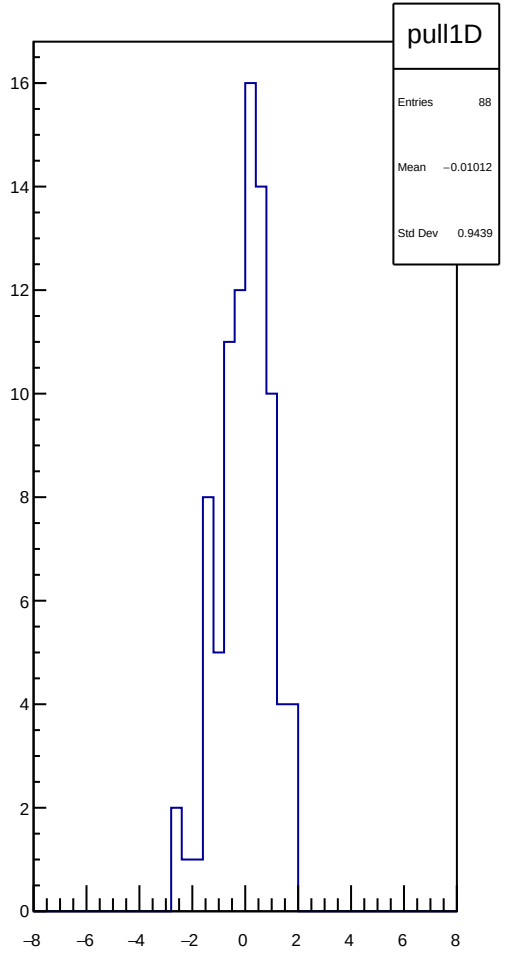

eigen_cor_asym_sam4_rms vs run
χ^2 / ndf 2184 / 87
p0 309.9 ± 0.241
340
330
320
310
300
290

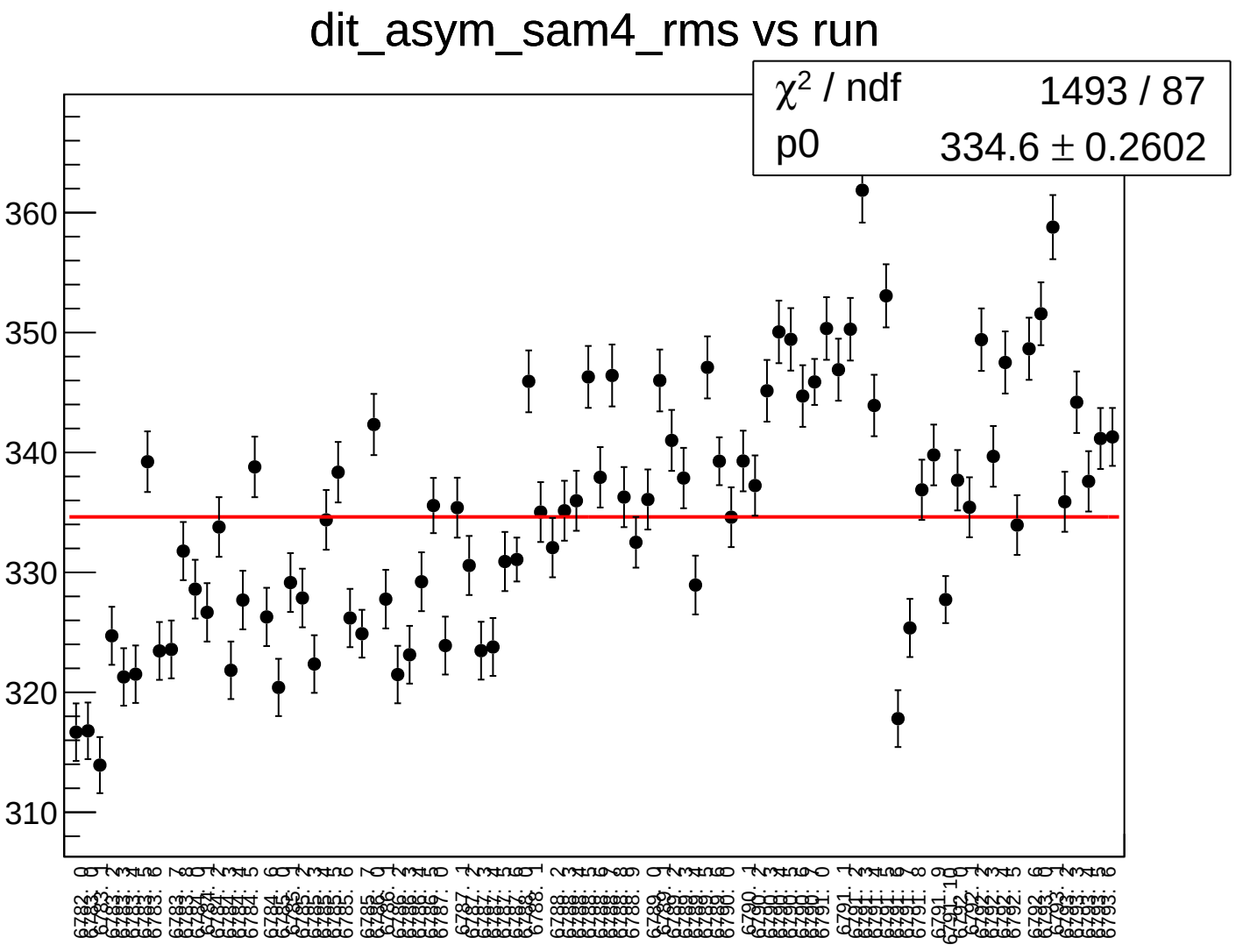

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 101.5 / 87
p0 −8348 ± 2492
pull
Entries 88
Mean −7415
Std Dev 0

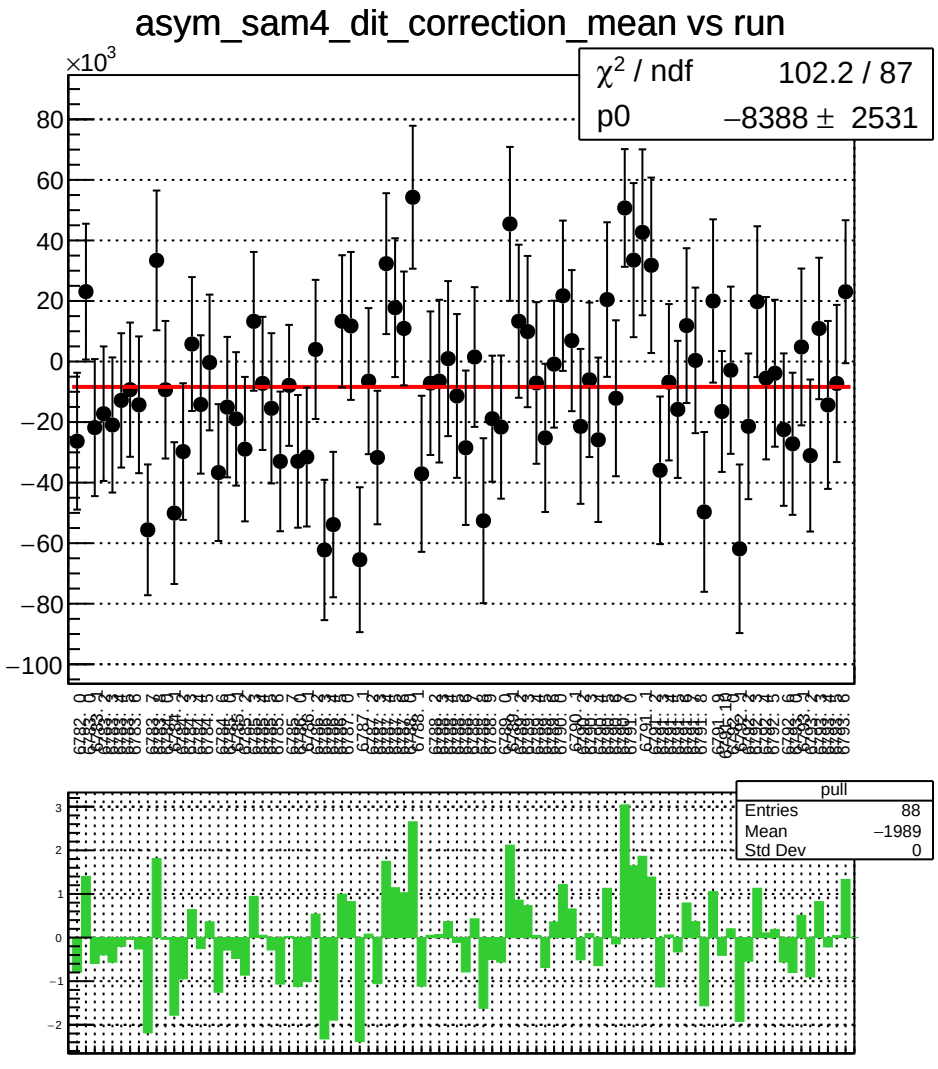

pull1D
Entries 88
Mean −0.0006363
Std Dev 1.074

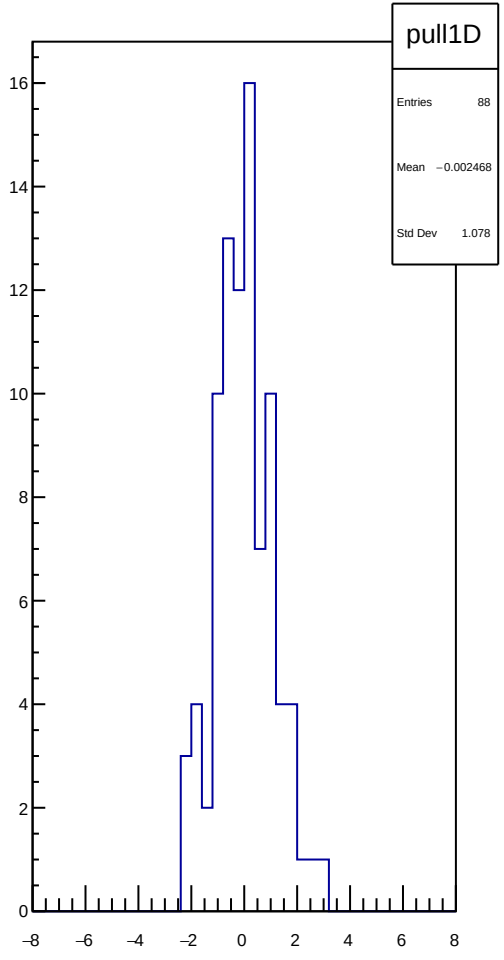

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 8464 / 87
p0 2261 ± 1.762
2700
2600
2500
2400
2300
2200
2100
2000

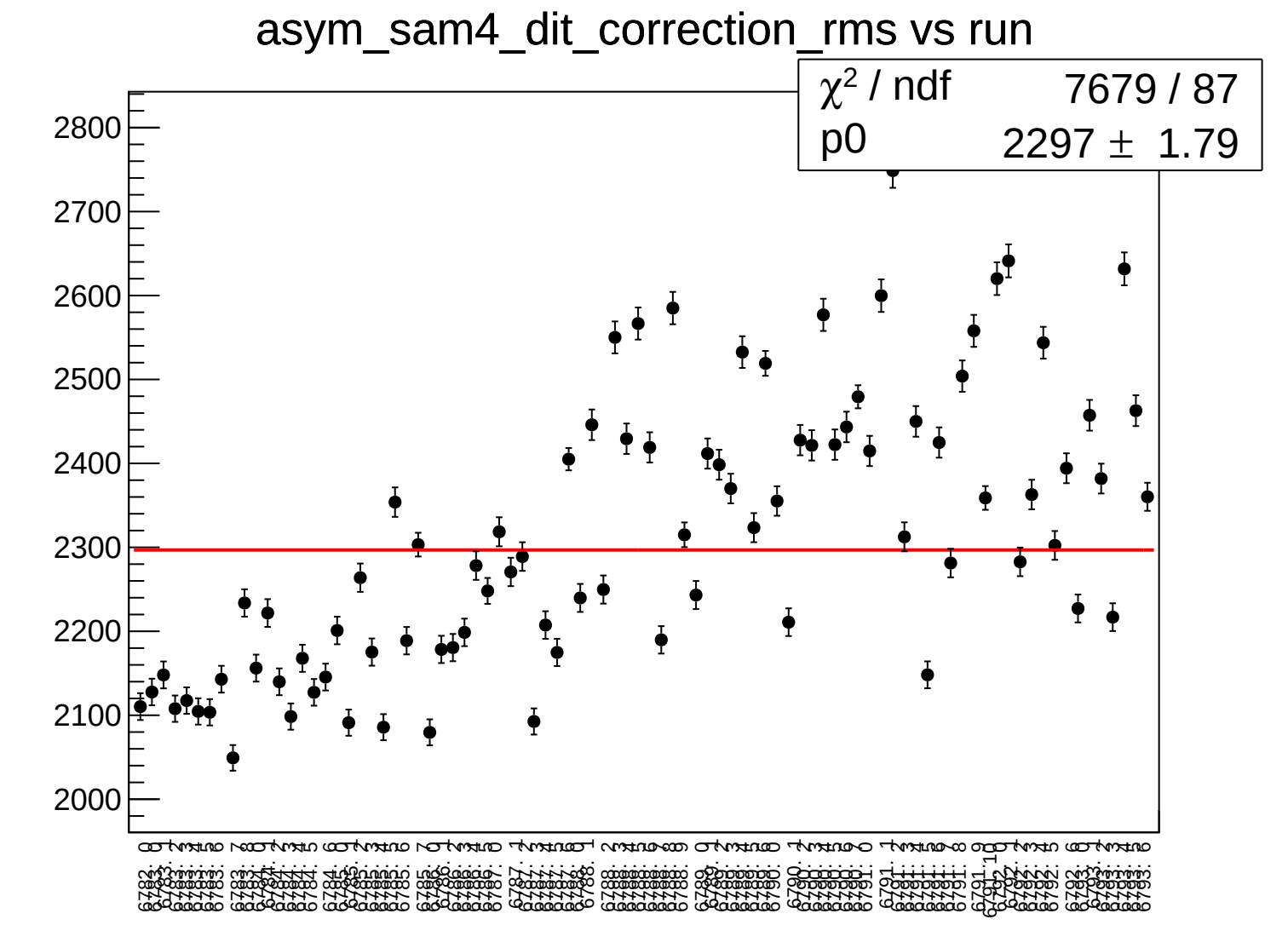

dit_asym_sam4_mean vs run
χ² / ndf 78.4 / 87
p0 −162.8 ± 368
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −7.001
Std Dev 38.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

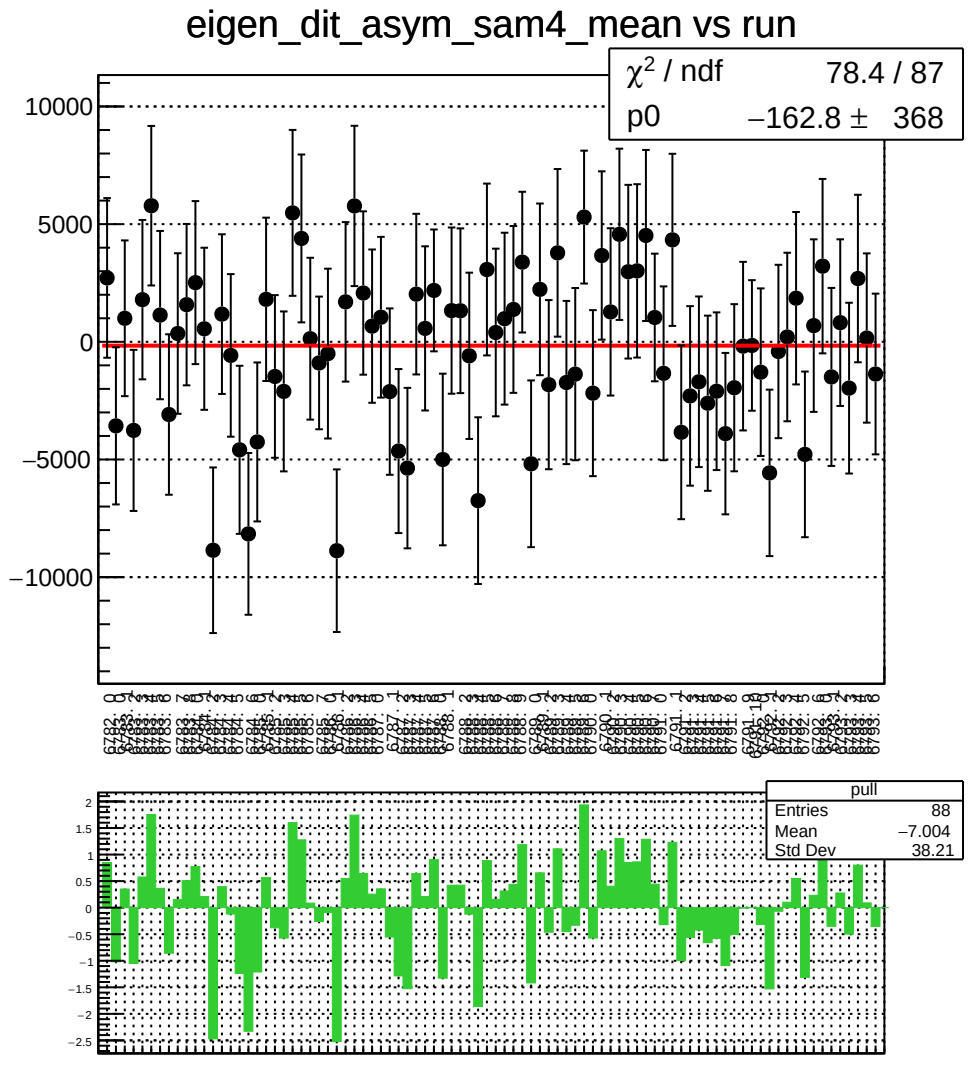

pull1D
Entries 88
Mean −0.01012
Std Dev 0.9439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

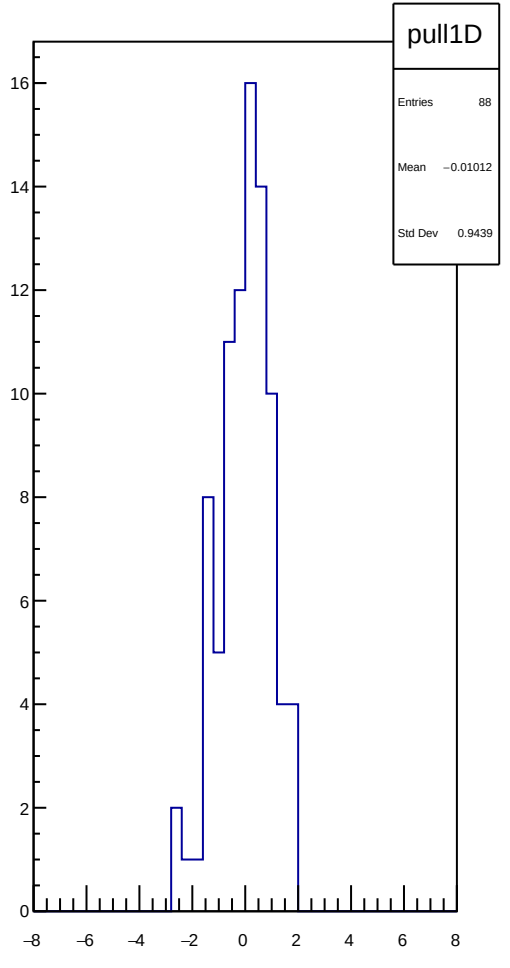

dit_asym_sam4_rms vs run
χ^2 / ndf 1493 / 87
p0 334.6 ± 0.2602
360
350
340
330
320
310

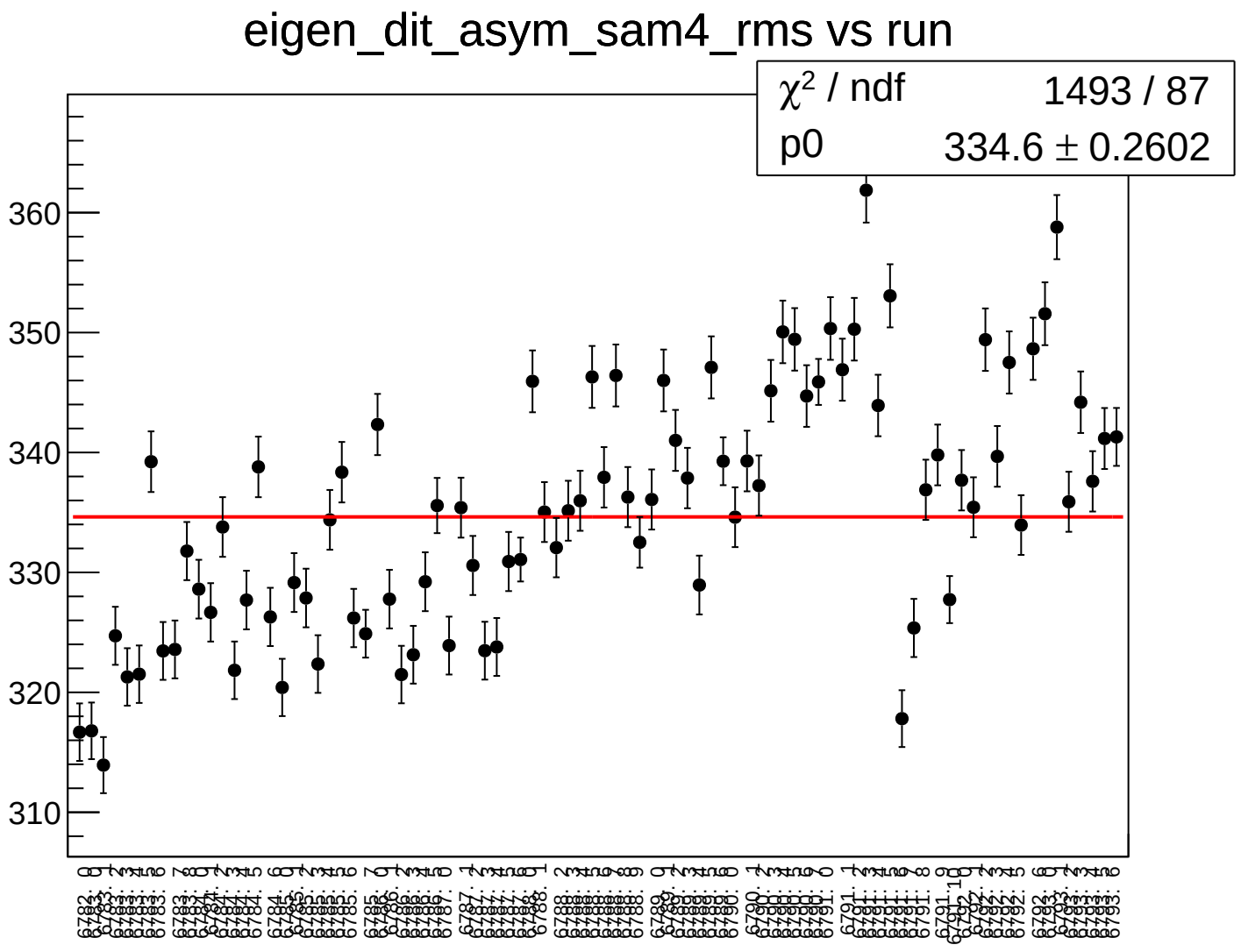

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 102.2 / 87
p0 −8388 ± 2531
pull
Entries 88
Mean −1989
Std Dev 0

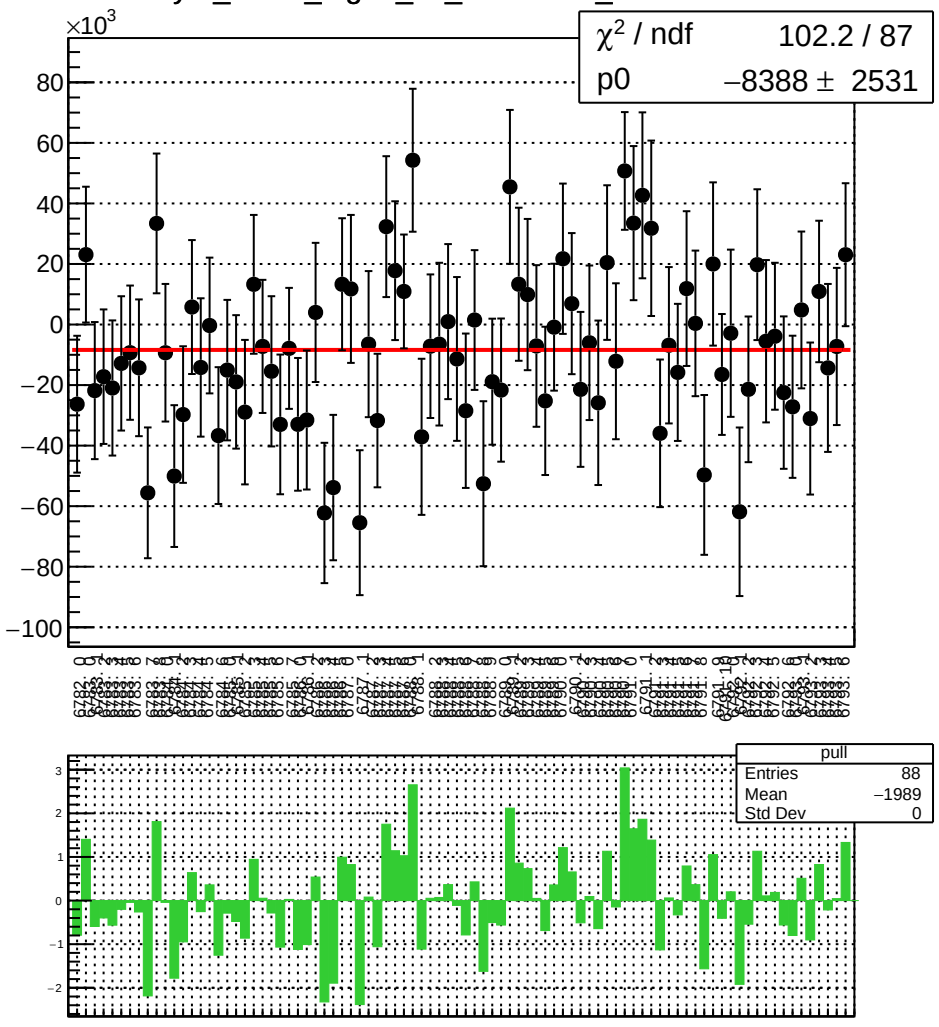

pull1D
Entries 88
Mean −0.002468
Std Dev 1.078

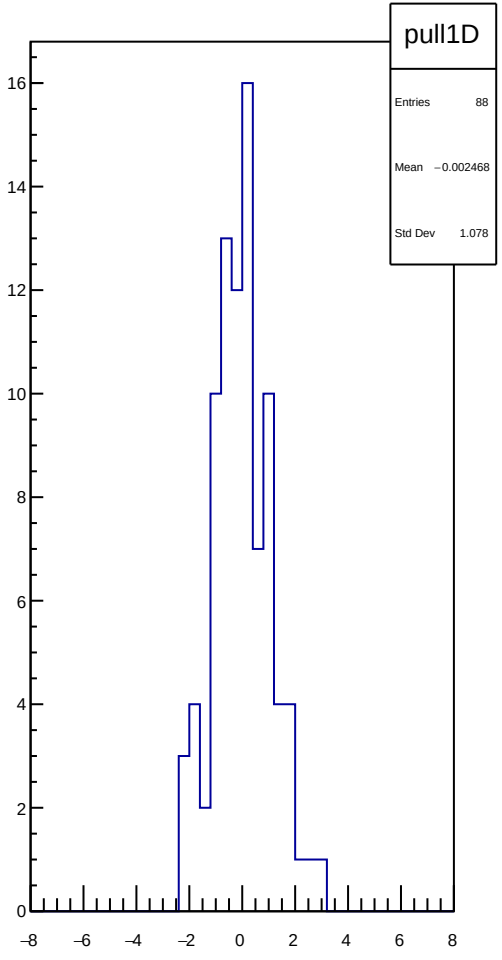

asym_sam4_dit_correction_rms vs run
χ² / ndf 7679 / 87
p0 2297 ± 1.79
2800
2700
2600
2500
2400
2300
2200
2100
2000

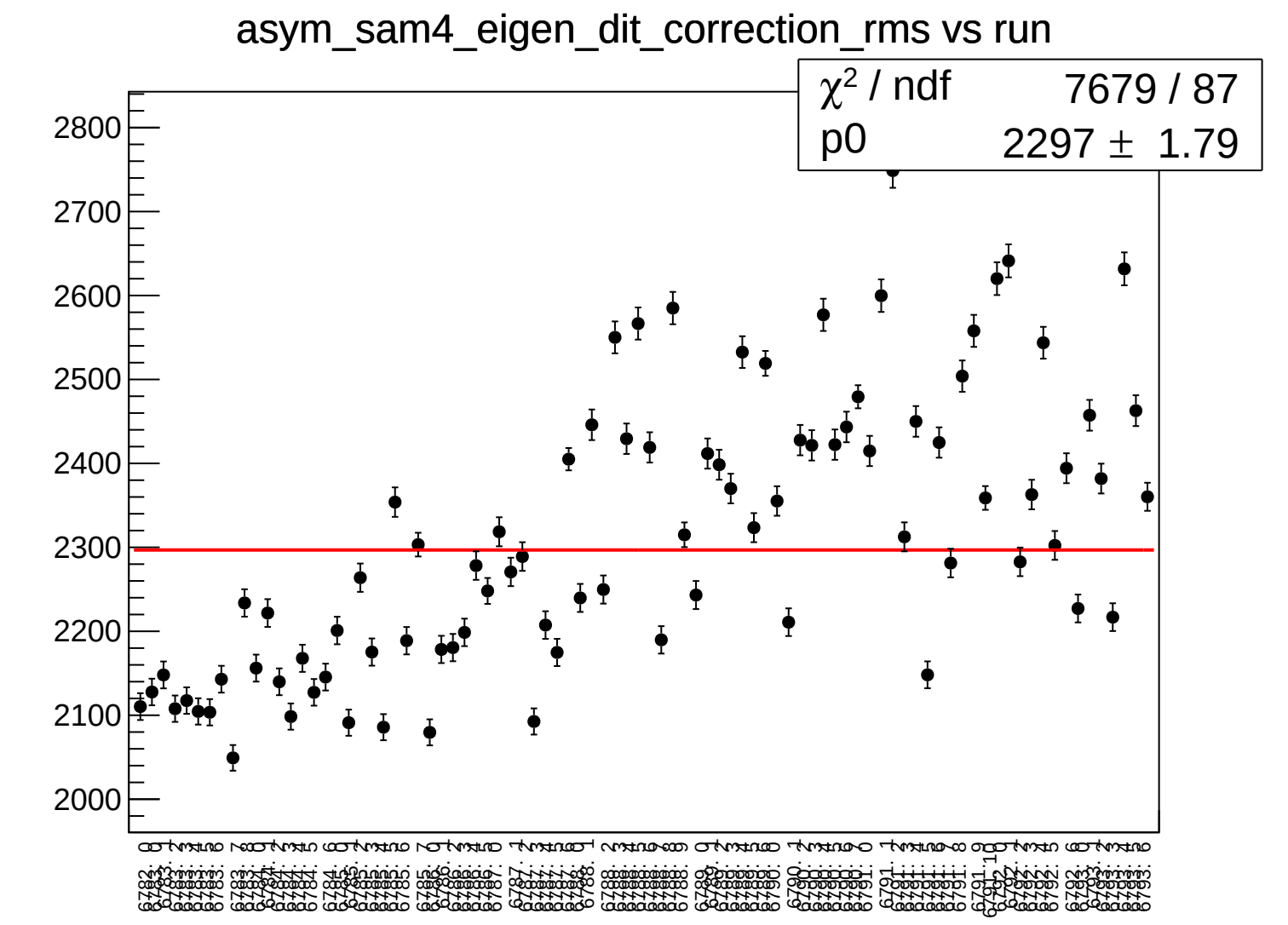

eigen_dit_asym_sam4_mean vs run
χ² / ndf 78.4 / 87
p0 −162.8 ± 368
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −7.004
Std Dev 38.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

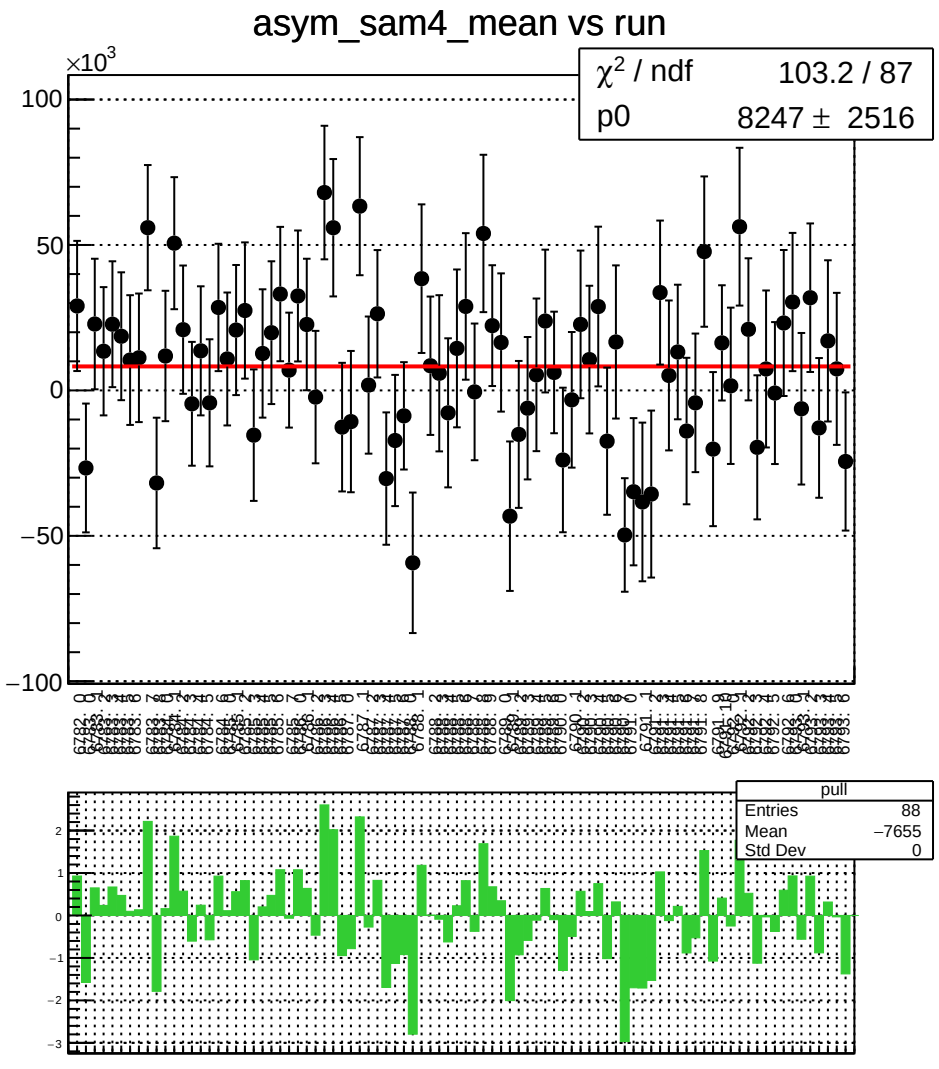

pull1D
Entries 88
Mean −0.01012
Std Dev 0.9439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

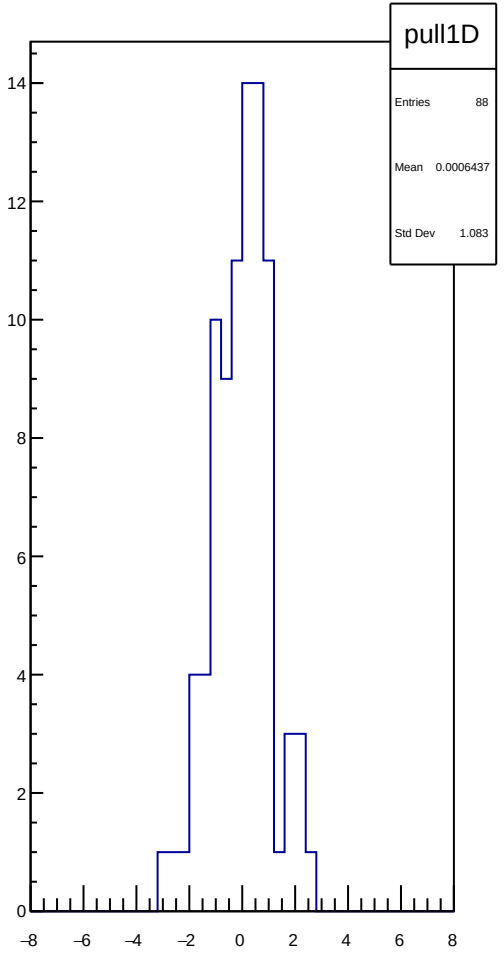

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 1493 / 87
p0 334.6 ± 0.2602
360
350
340
330
320
310

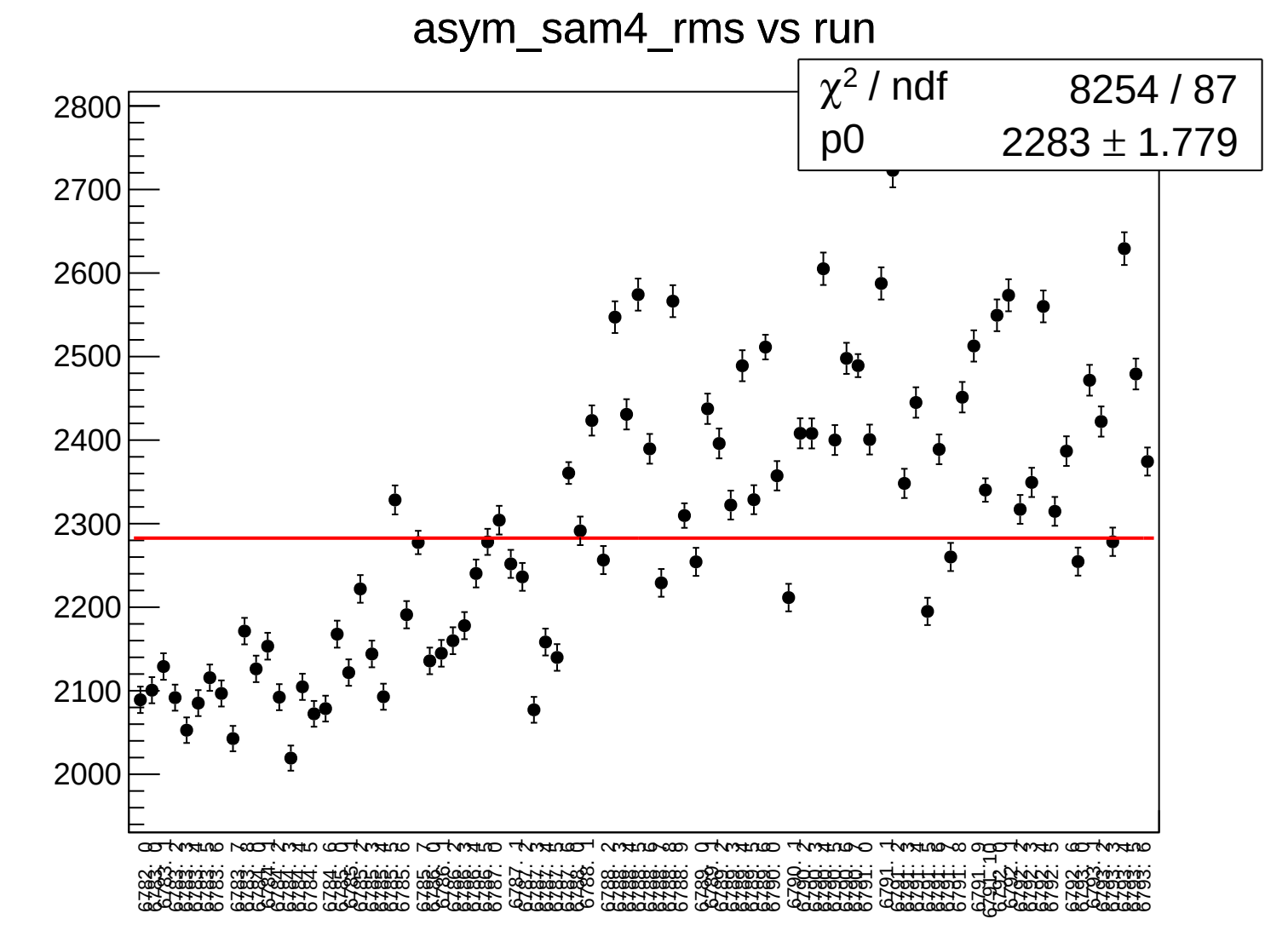

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 102.2 / 87
p0 −8388 ± 2531
×10³
pull
Entries 88
Mean −1989
Std Dev 0

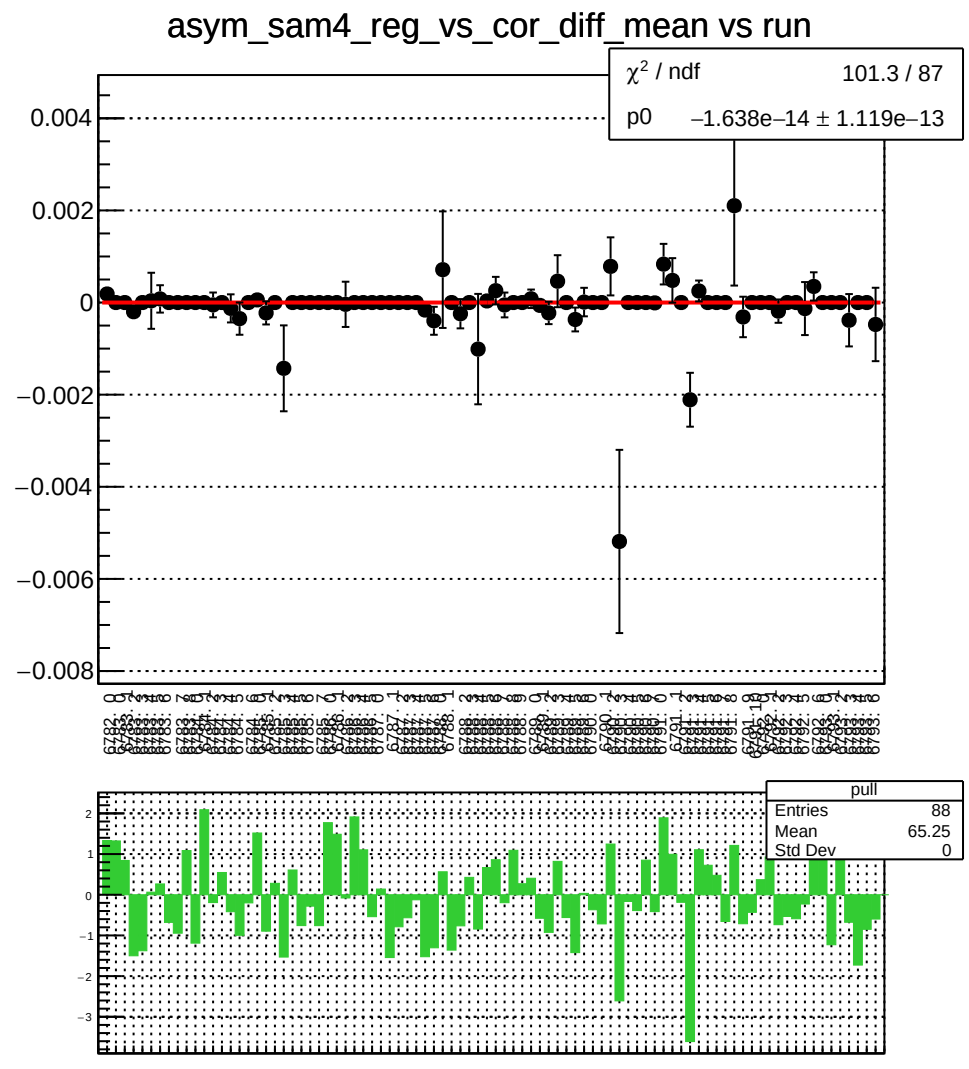

pull1D
Entries 88
Mean −0.002468
Std Dev 1.078

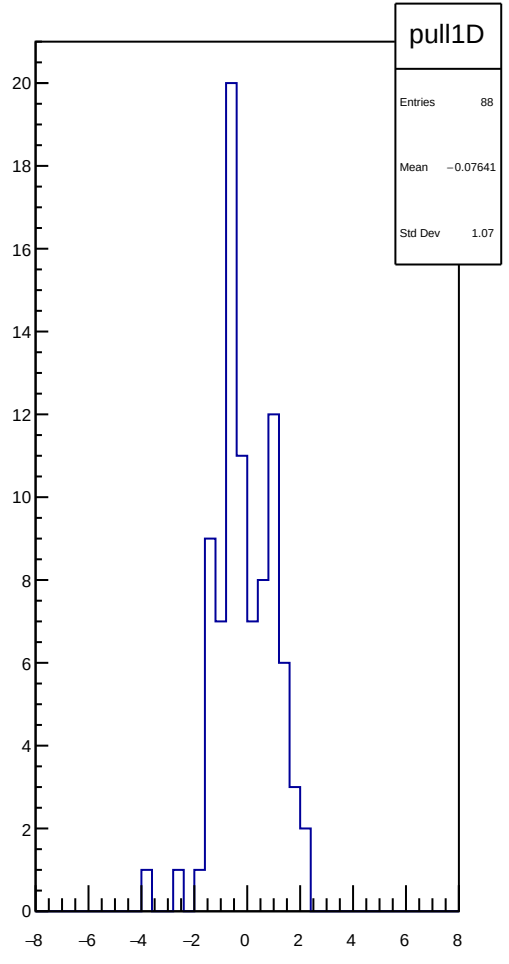

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 7679 / 87
p0 2297 ± 1.79
2800
2700
2600
2500
2400
2300
2200
2100
2000

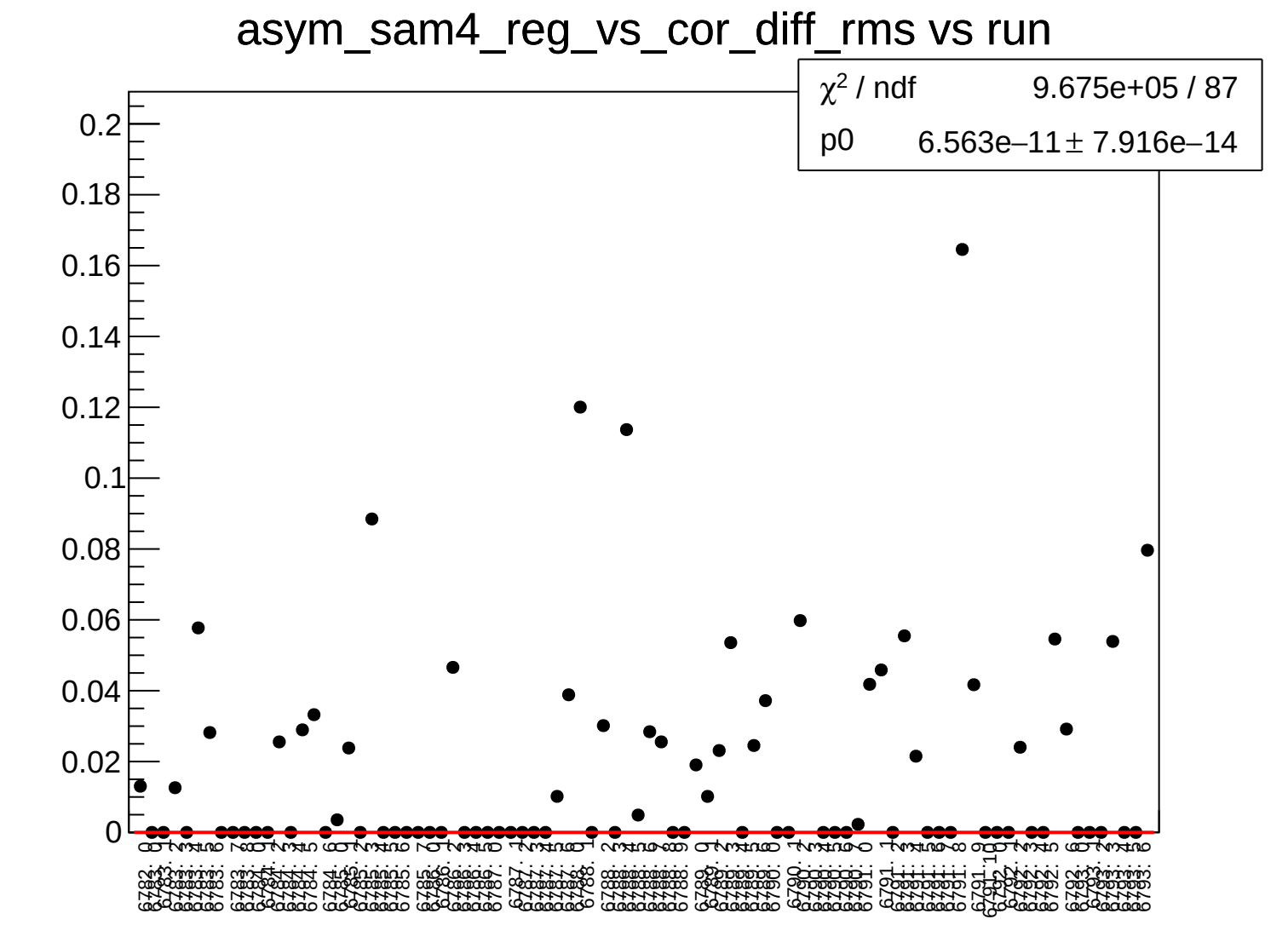

asym_sam4_mean vs run
×10^3
χ² / ndf 103.2 / 87
p0 8247 ± 2516
100
50
0
−50
−100
pull
Entries 88
Mean −7655
Std Dev 0
2
1
0
−1
−2
−3

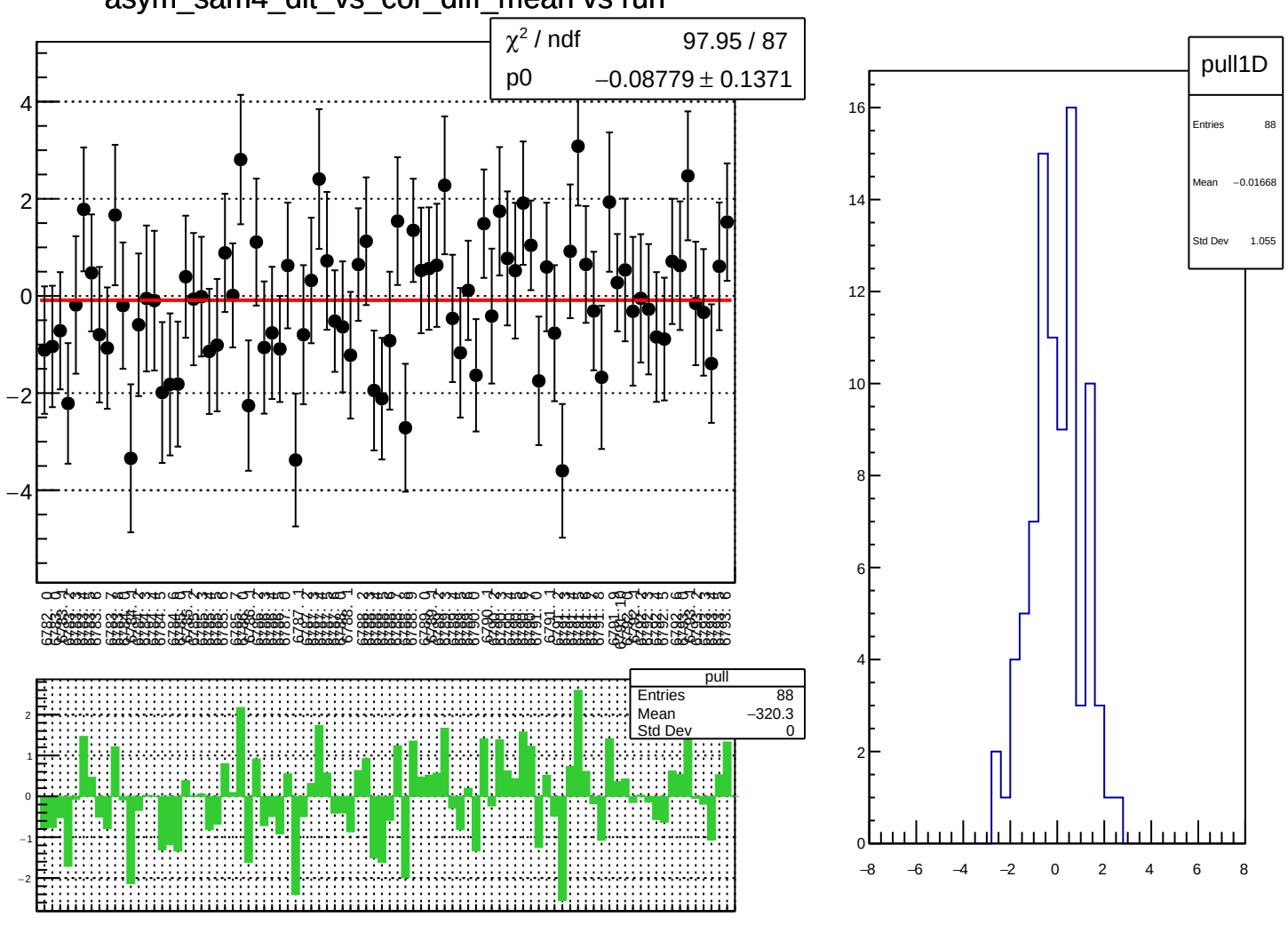

pull1D
Entries 88
Mean 0.0006437
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

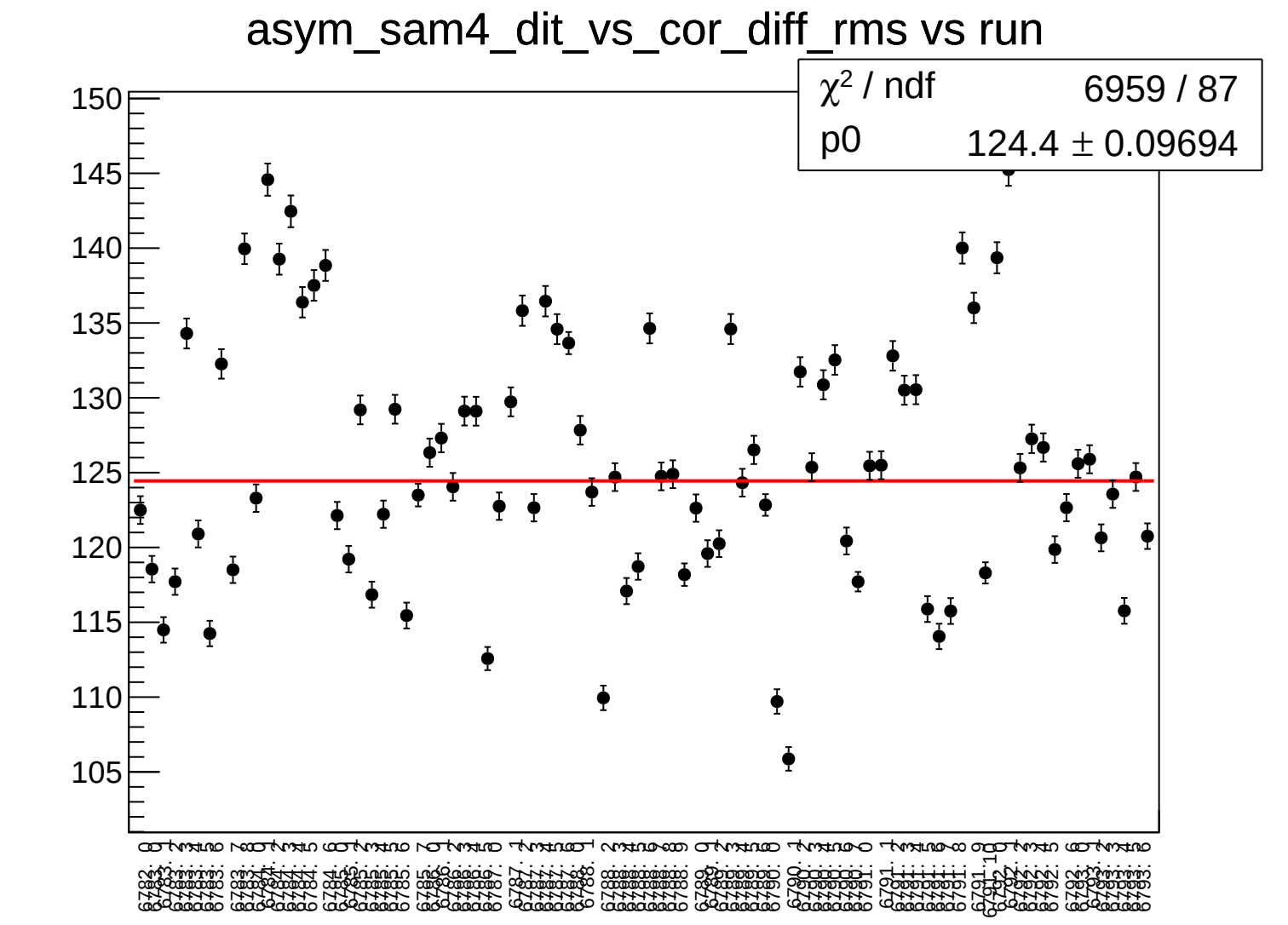

asym_sam4_rms vs run
χ² / ndf 8254 / 87
p0 2283 ± 1.779
2800
2700
2600
2500
2400
2300
2200
2100
2000

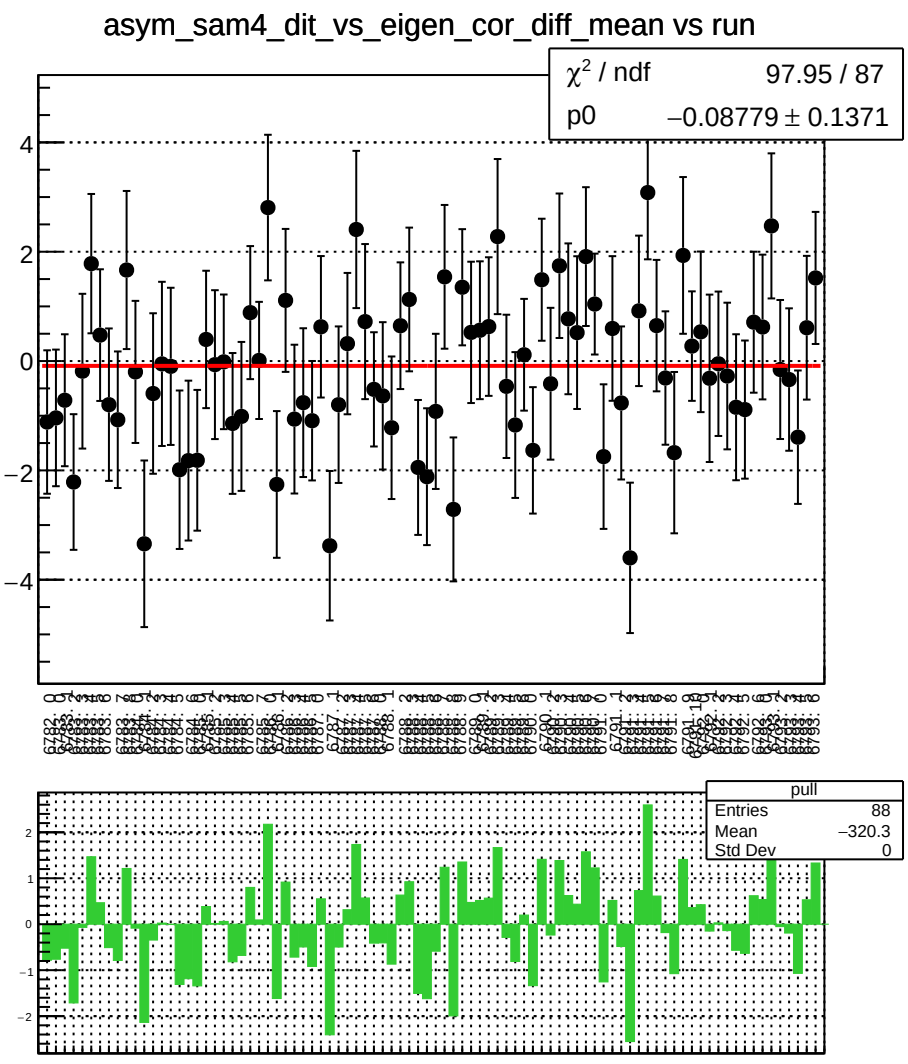

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 87
p0 −1.638e−14 ± 1.119e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 88
Mean 65.25
Std Dev 0
2
1
0
−1
−2
−3

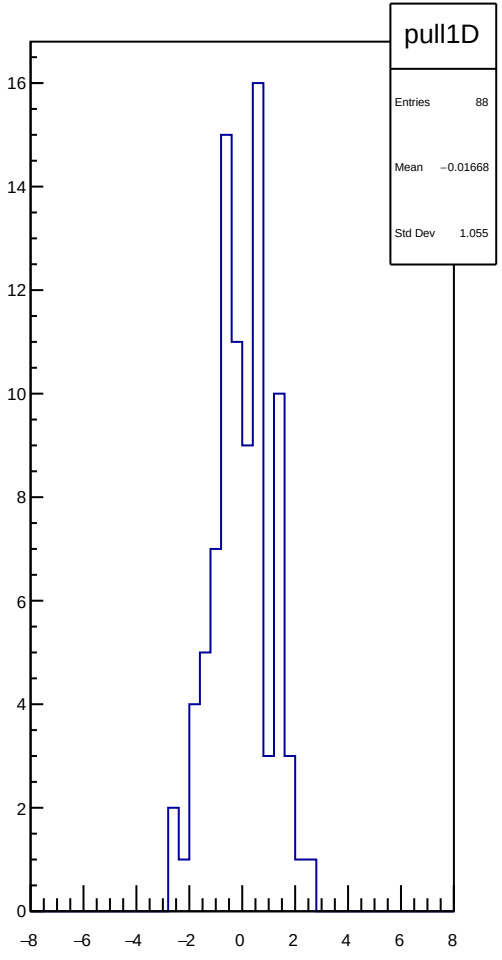

pull1D
Entries 88
Mean −0.07641
Std Dev 1.07
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

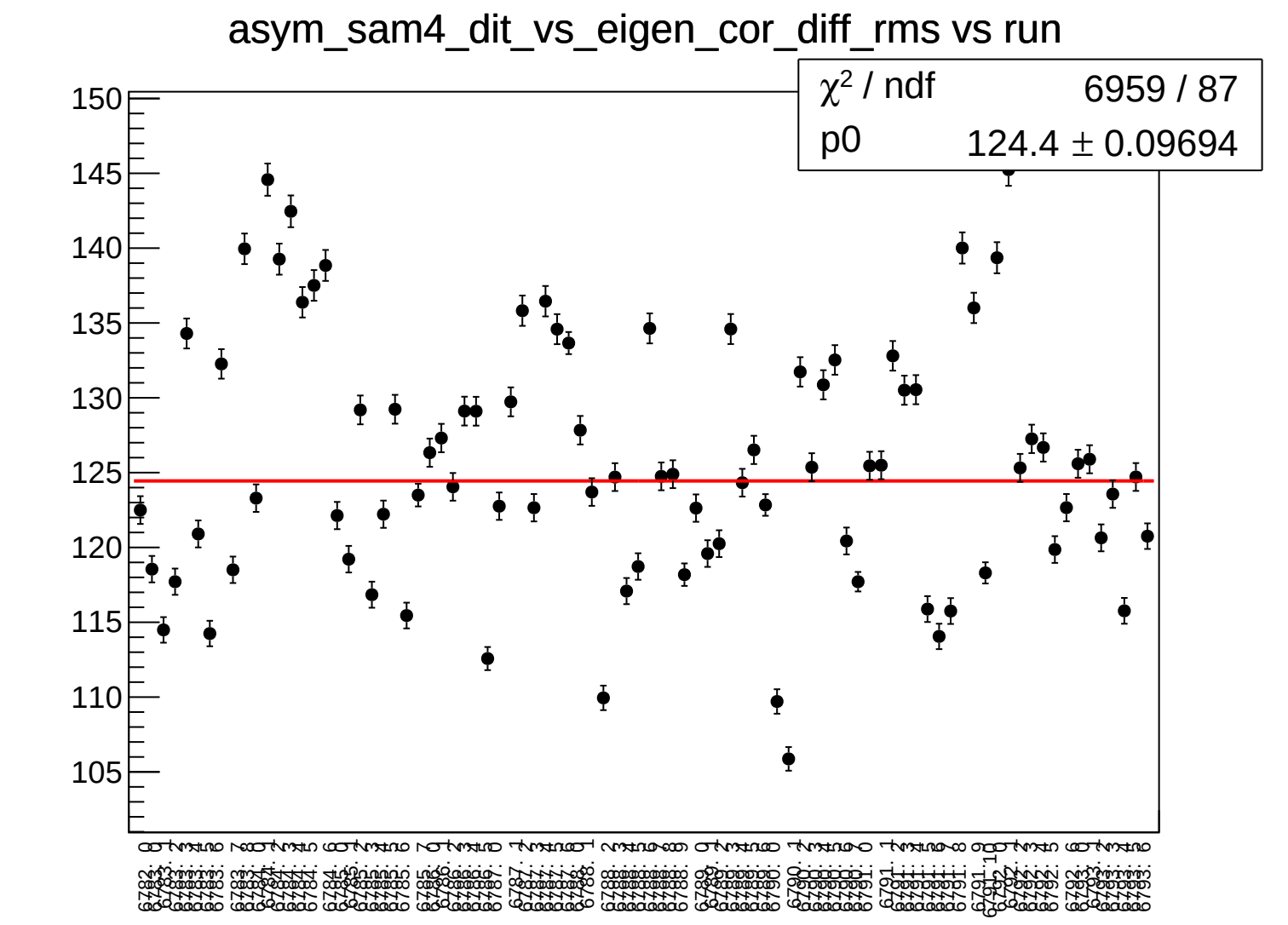

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.675e+05 / 87
p0 6.563e−11 ± 7.916e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

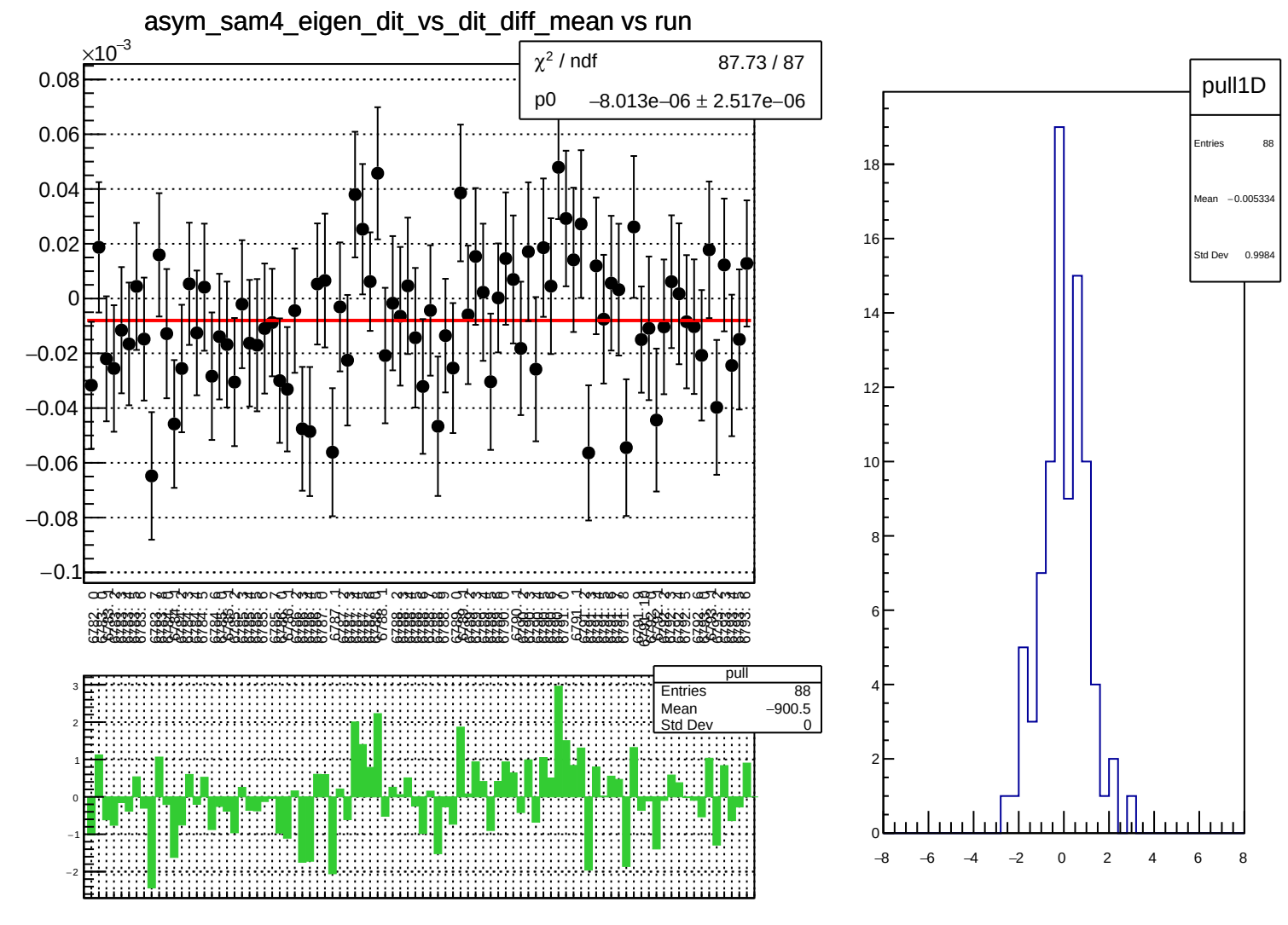

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 97.95 / 87
p0 −0.08779 ± 0.1371
pull
Entries 88
Mean −320.3
Std Dev 0
pull1D
Entries 88
Mean −0.01668
Std Dev 1.055

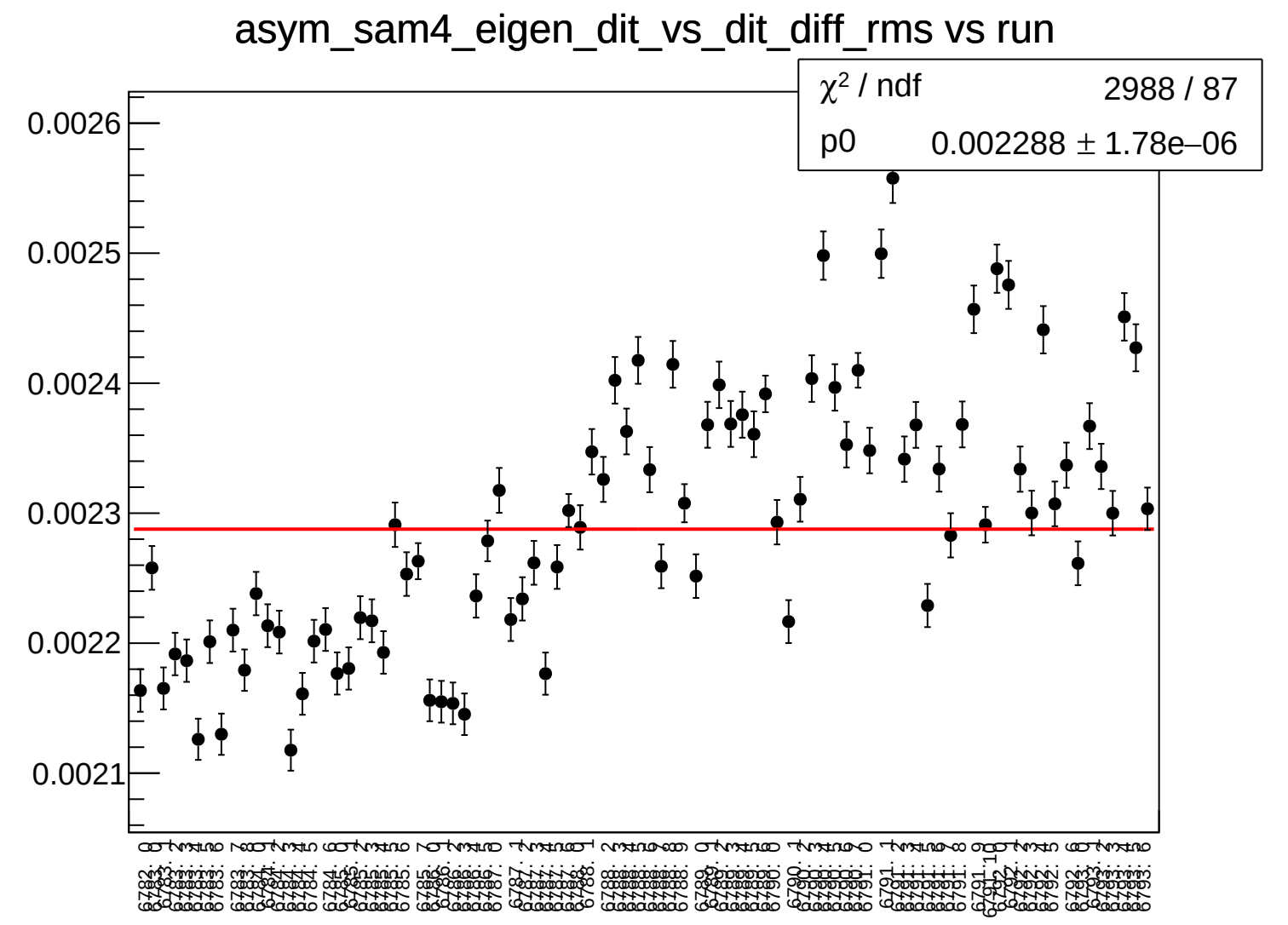

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 6959 / 87
p0 124.4 ± 0.09694
150
145
140
135
130
125
120
115
110
105

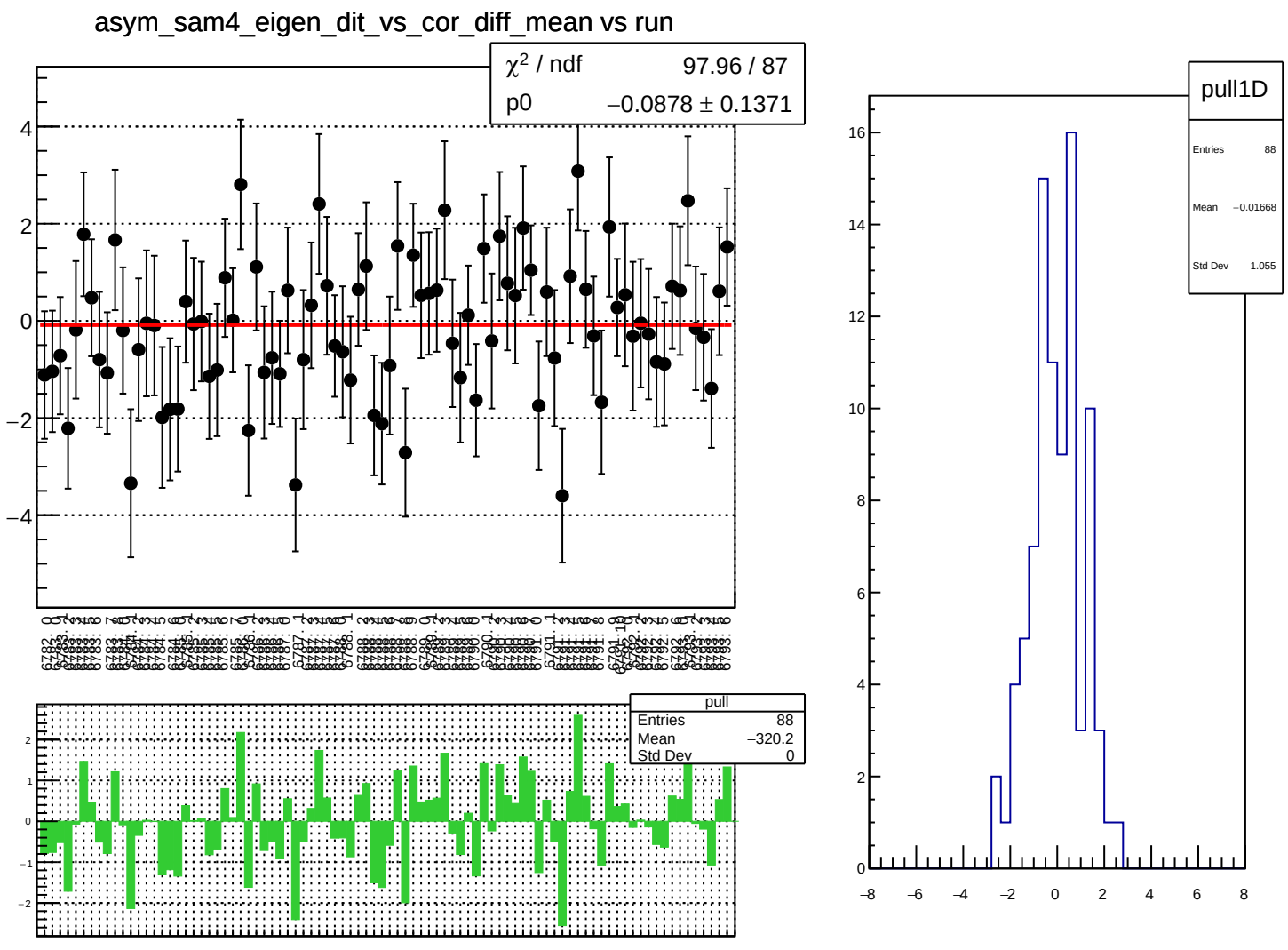

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.95 / 87
p0 −0.08779 ± 0.1371
pull
Entries 88
Mean −320.3
Std Dev 0

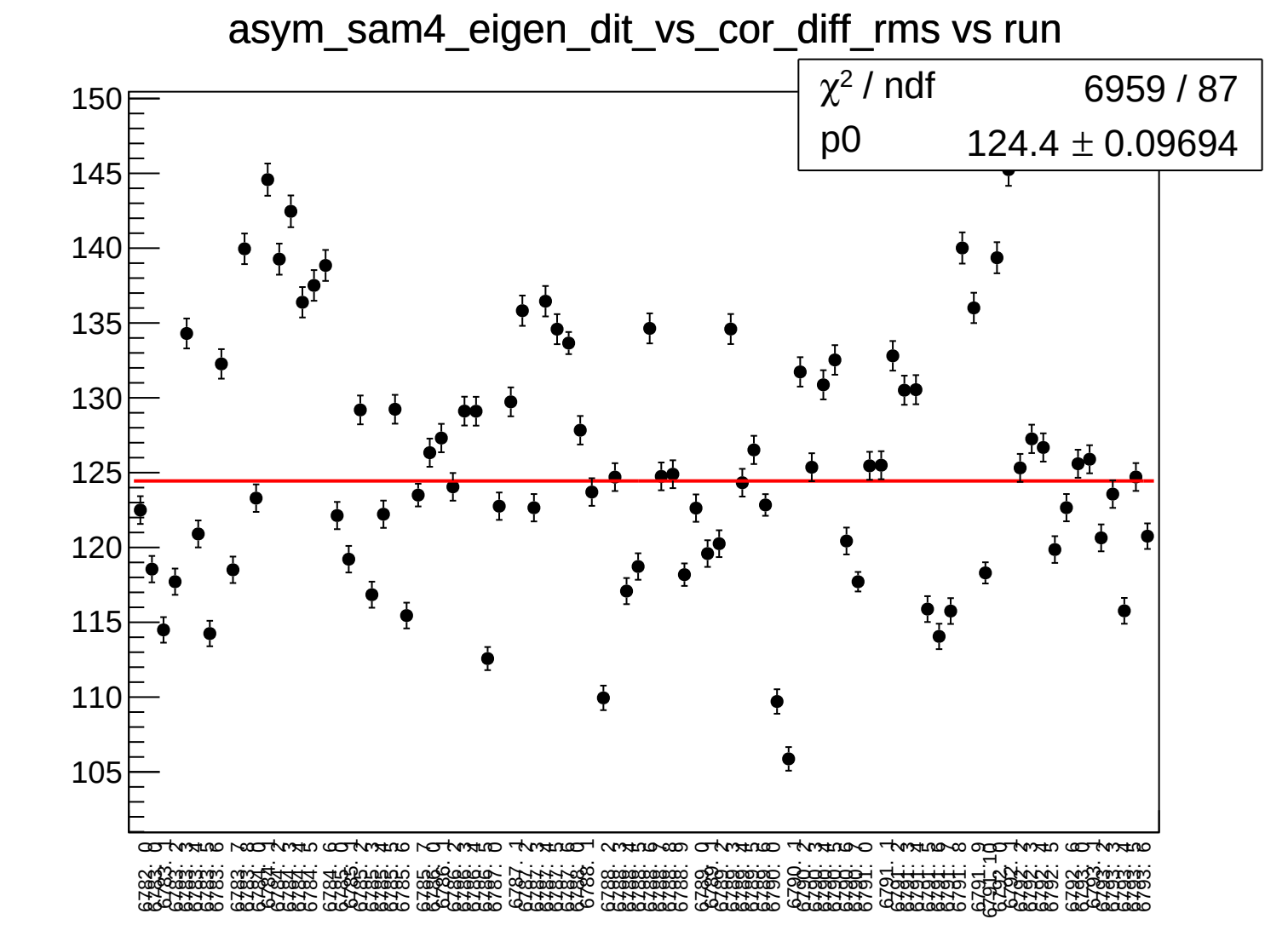

pull1D
Entries 88
Mean −0.01668
Std Dev 1.055

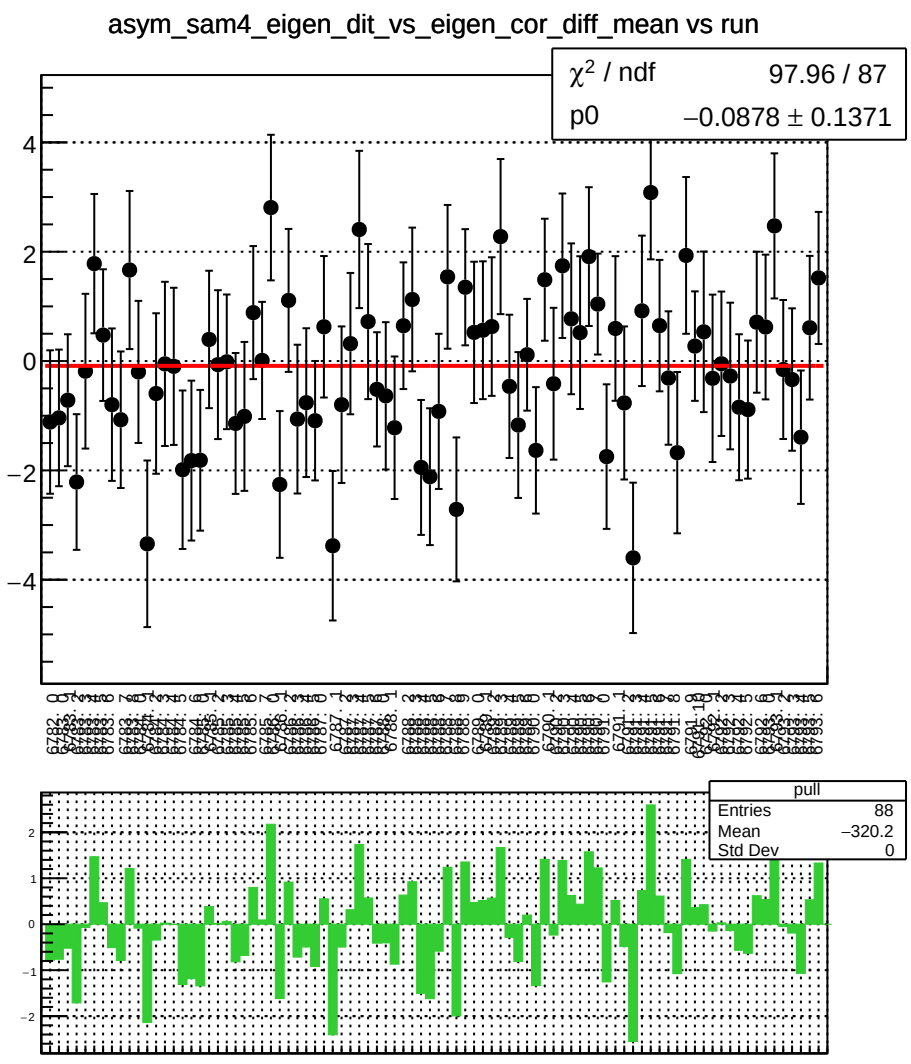

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6959 / 87
p0 124.4 ± 0.09694
150
145
140
135
130
125
120
115
110
105

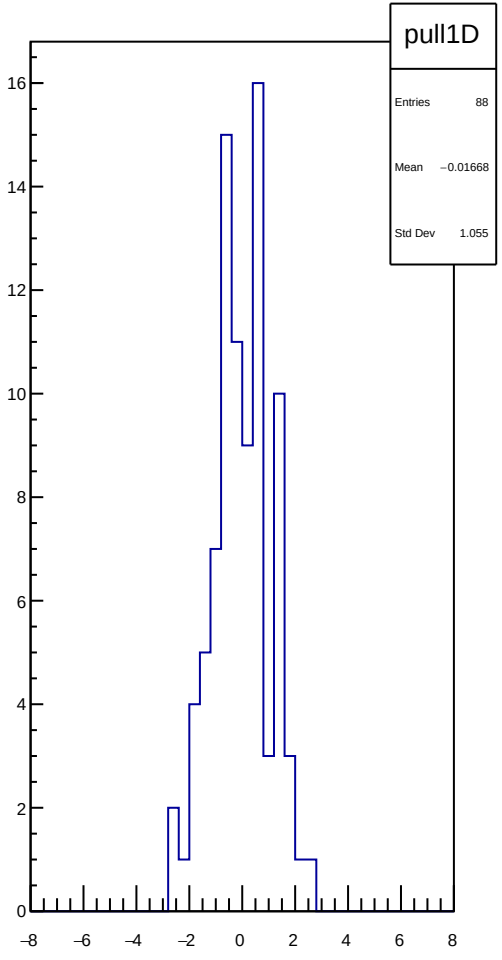

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.73 / 87
p0 −8.013e−06 ± 2.517e−06
pull
Entries 88
Mean −900.5
Std Dev 0
pull1D
Entries 88
Mean −0.005334
Std Dev 0.9984

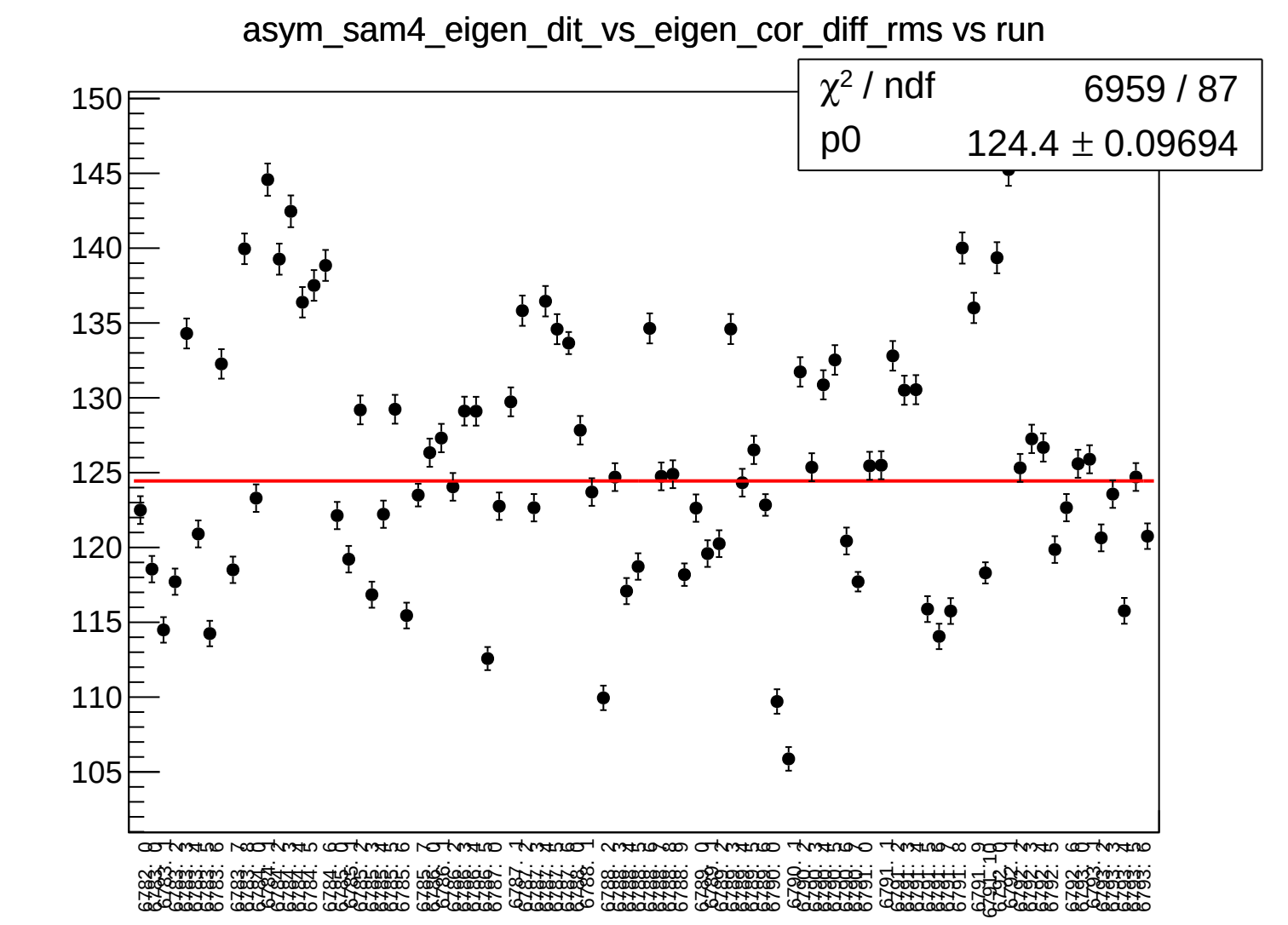

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2988 / 87
p0 0.002288 ± 1.78e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

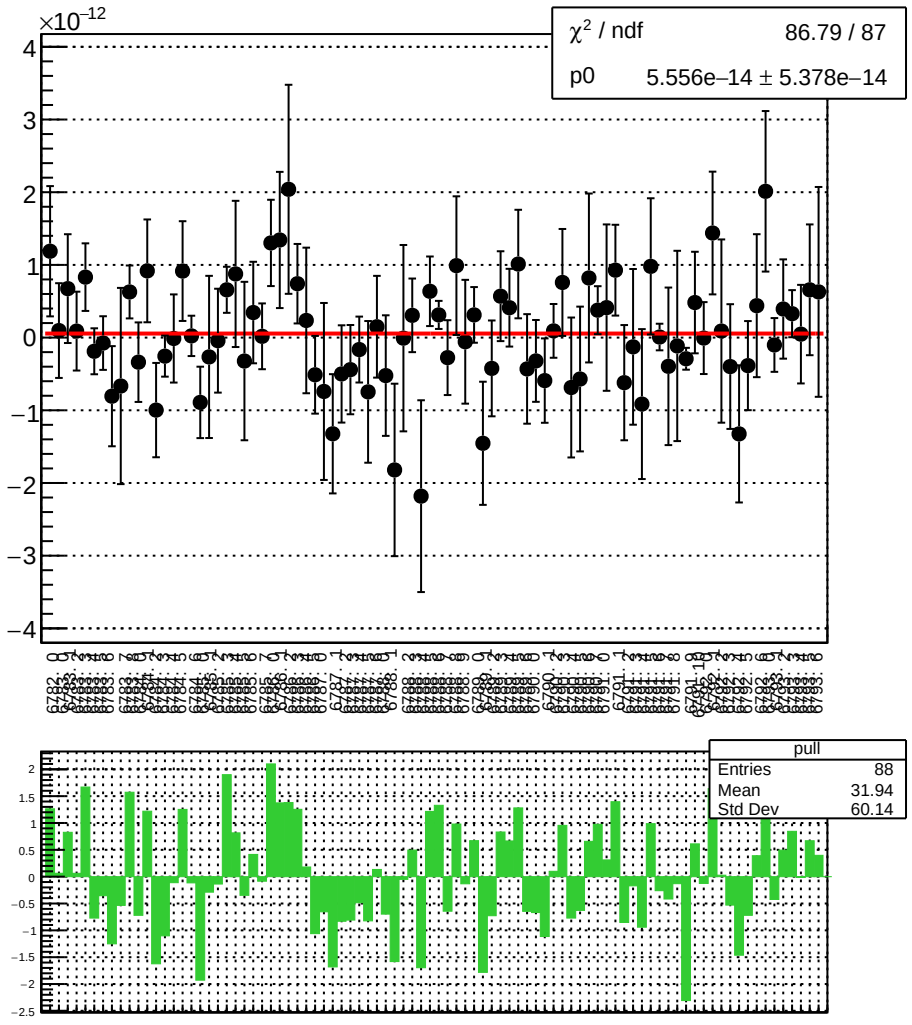

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.96 / 87
p0 −0.0878 ± 0.1371
pull
Entries 88
Mean −320.2
Std Dev 0
pull1D
Entries 88
Mean −0.01668
Std Dev 1.055

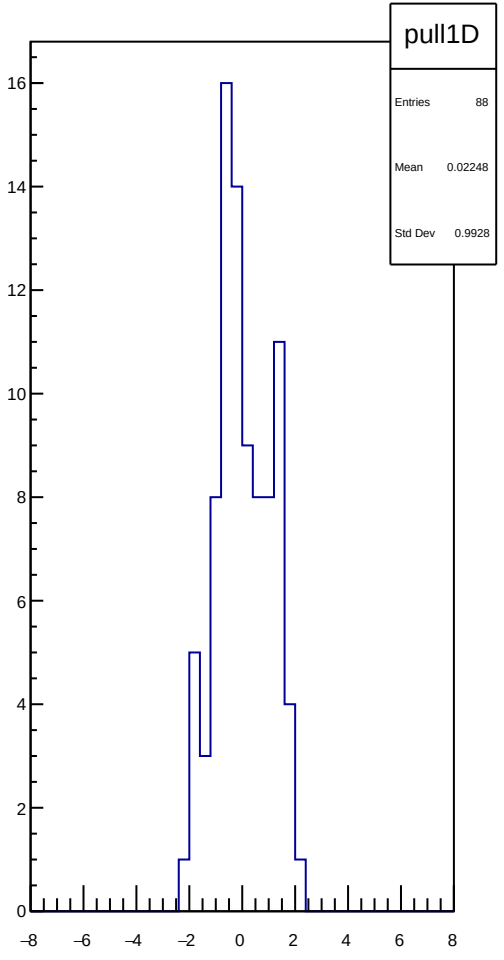

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6959 / 87
p0 124.4 ± 0.09694
150
145
140
135
130
125
120
115
110
105

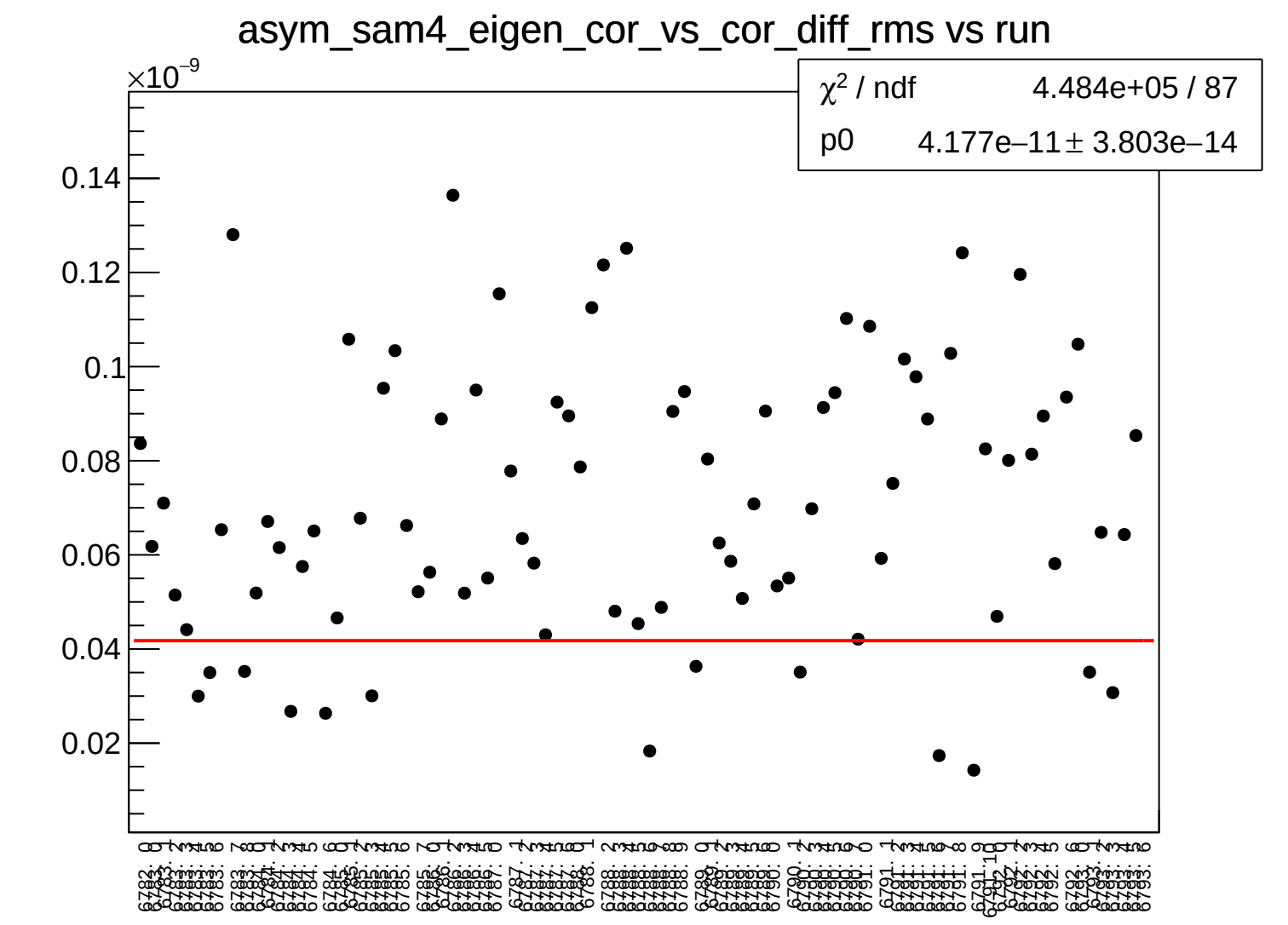

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.96 / 87
p0 −0.0878 ± 0.1371
pull
Entries 88
Mean −320.2
Std Dev 0

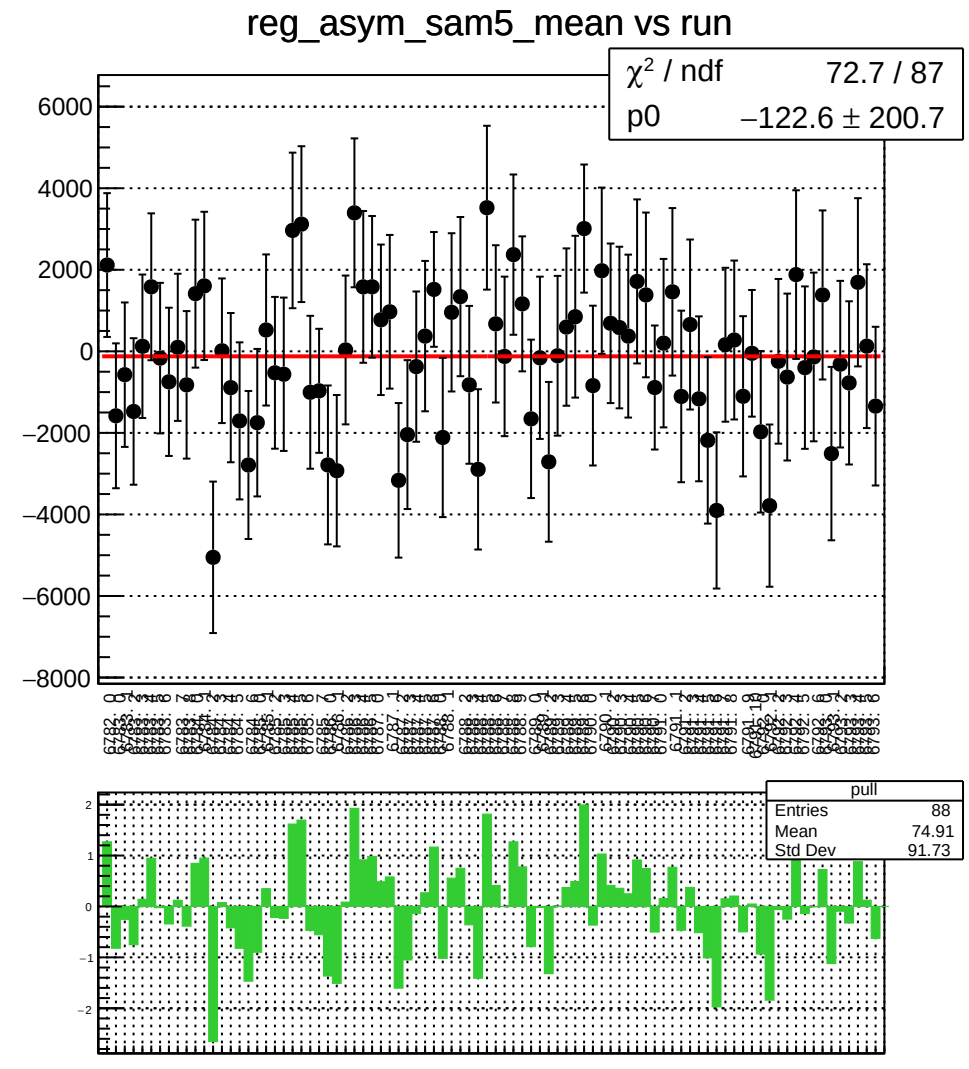

pull1D
Entries 88
Mean −0.01668
Std Dev 1.055

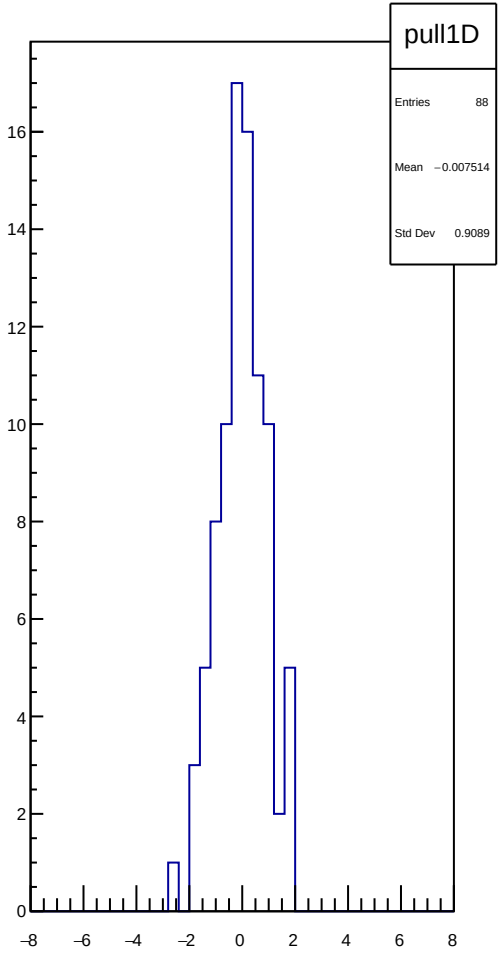

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6959 / 87
p0 124.4 ± 0.09694
150
145
140
135
130
125
120
115
110
105

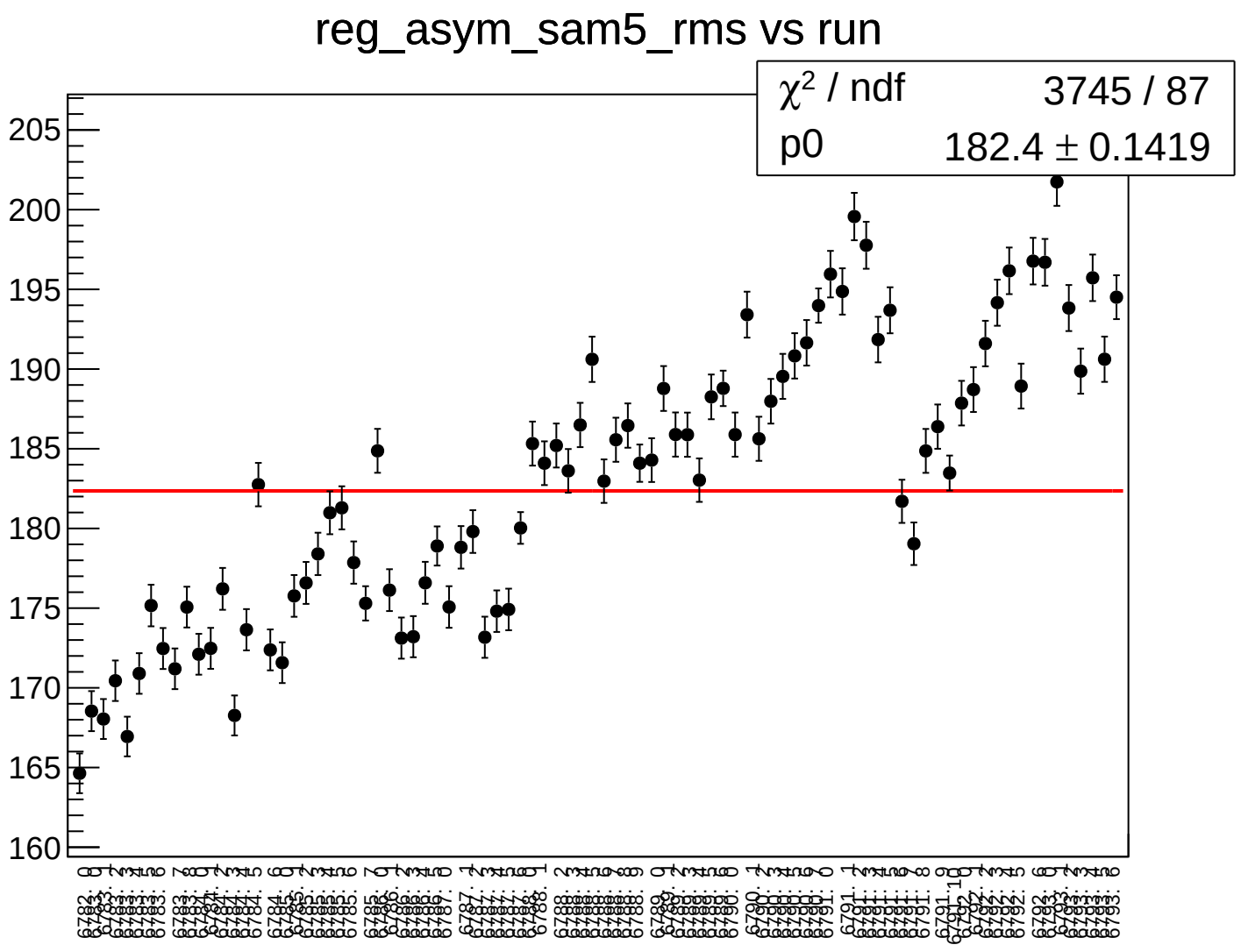

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.79 / 87
p0 5.556e−14 ± 5.378e−14
pull
Entries 88
Mean 31.94
Std Dev 60.14

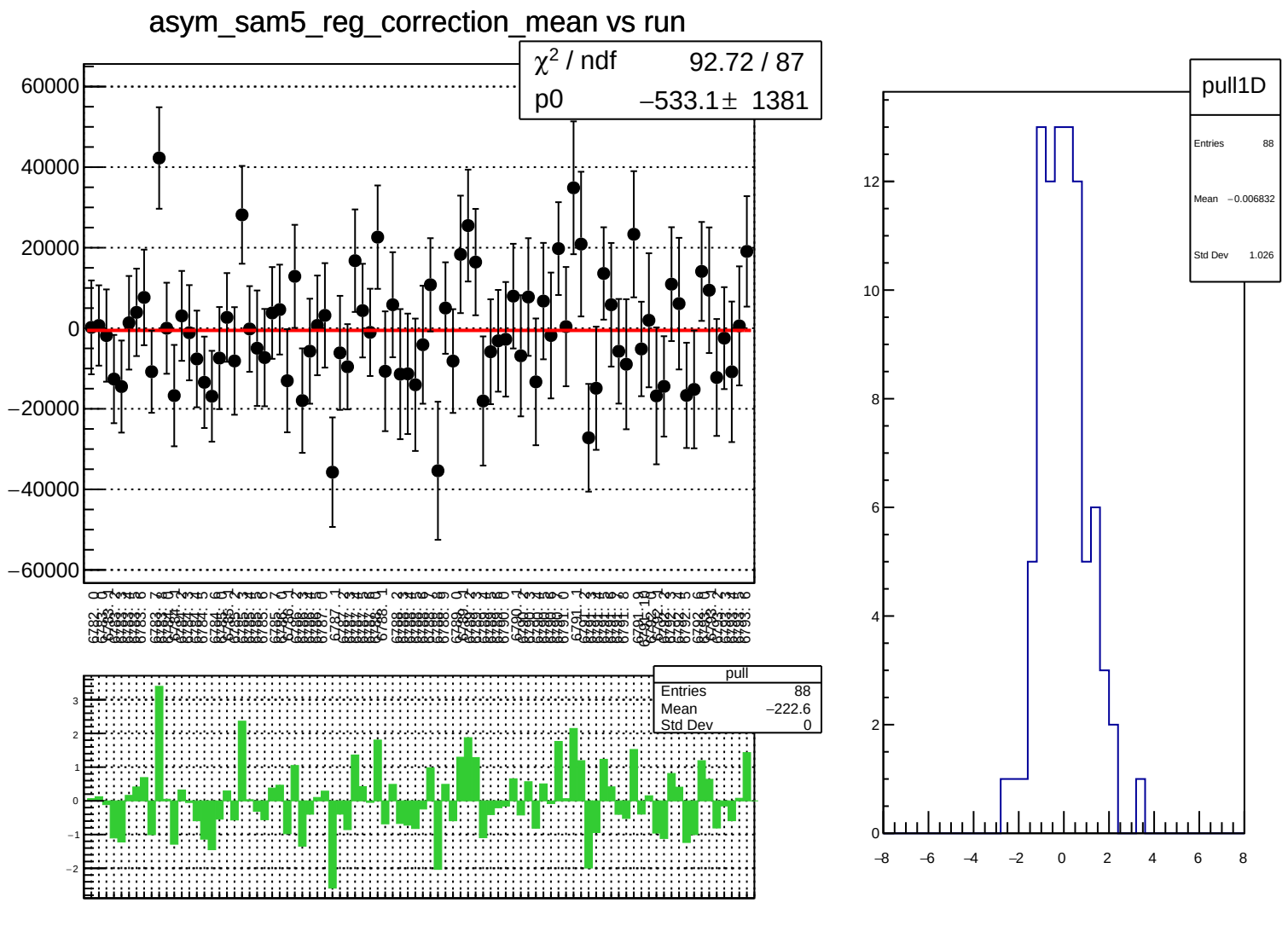

pull1D
Entries 88
Mean 0.02248
Std Dev 0.9928

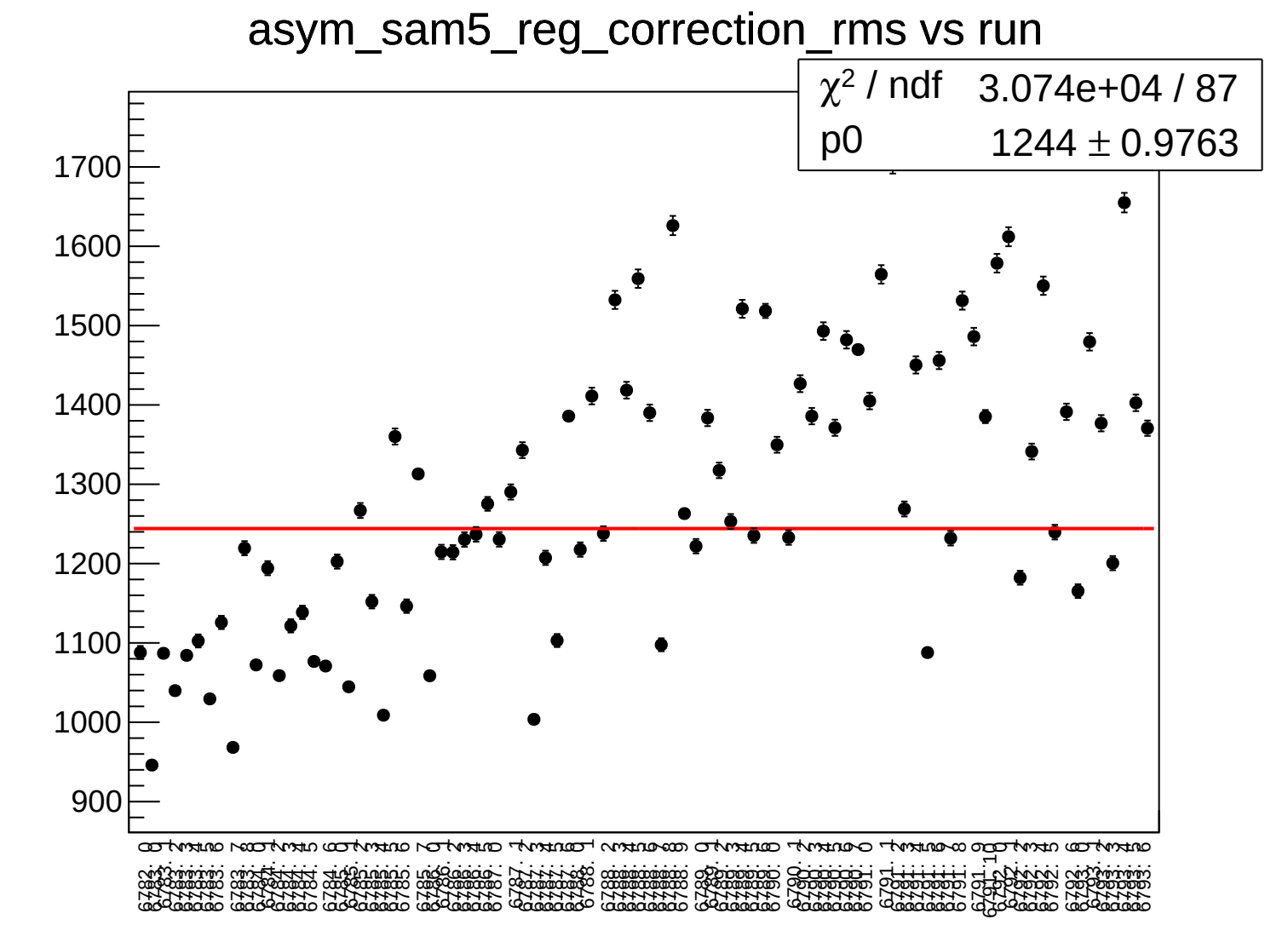

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.484e+05 / 87
p0 4.177e−11 ± 3.803e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

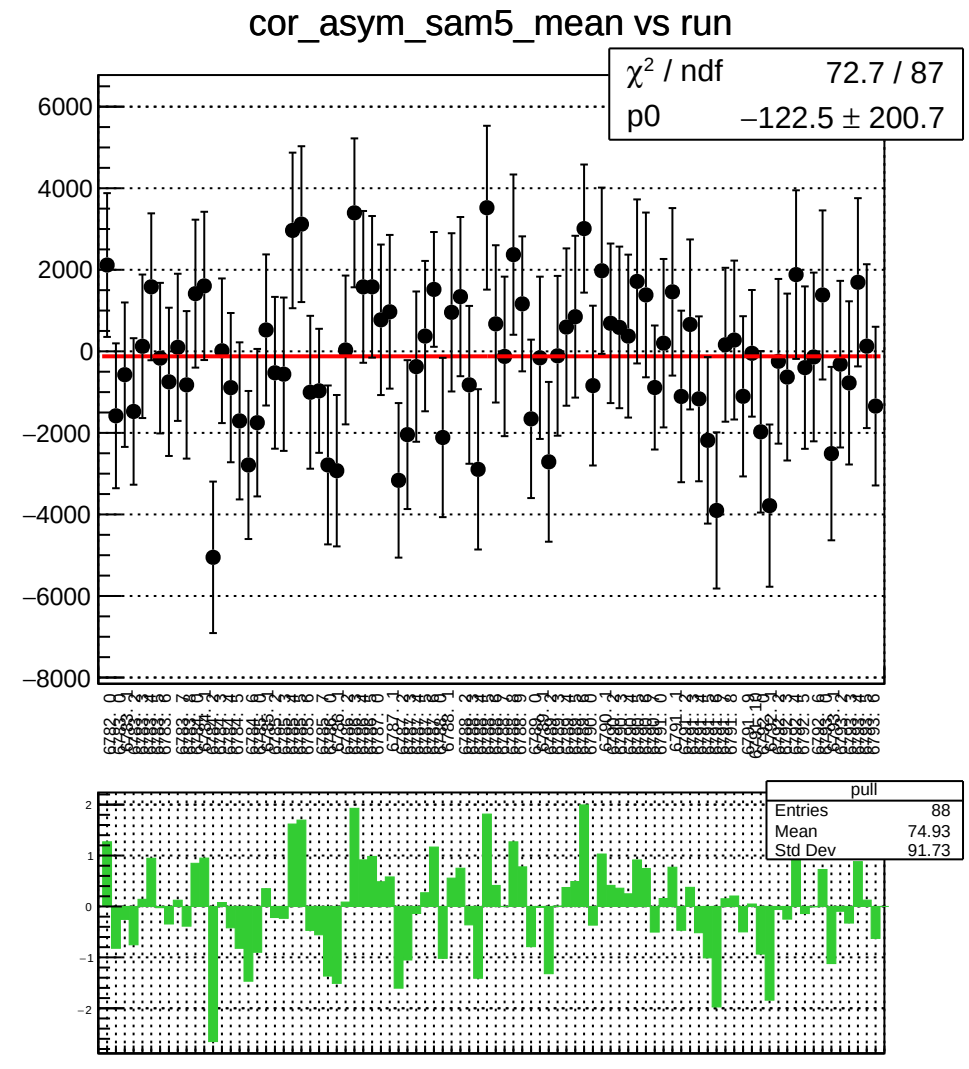

reg_asym_sam5_mean vs run
χ² / ndf 72.7 / 87
p0 −122.6 ± 200.7
pull
Entries 88
Mean 74.91
Std Dev 91.73

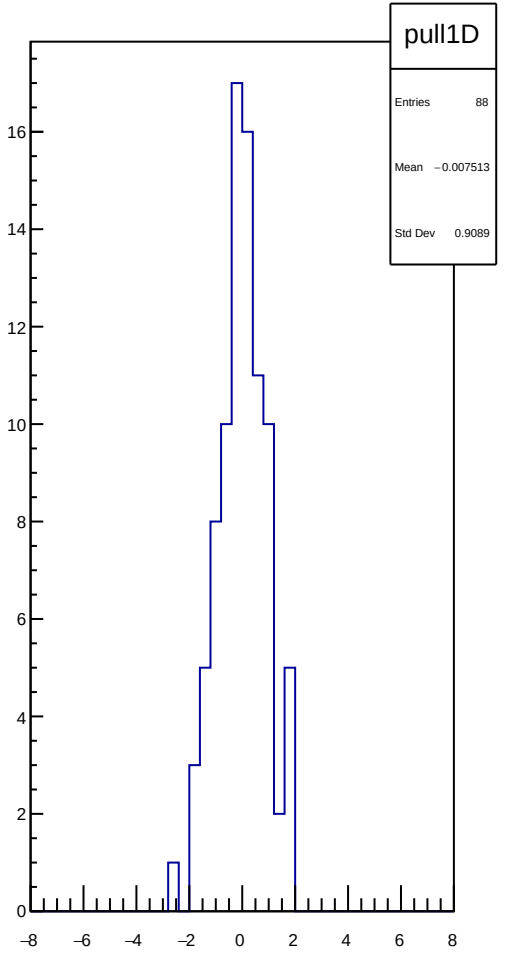

pull1D
Entries 88
Mean −0.007514
Std Dev 0.9089

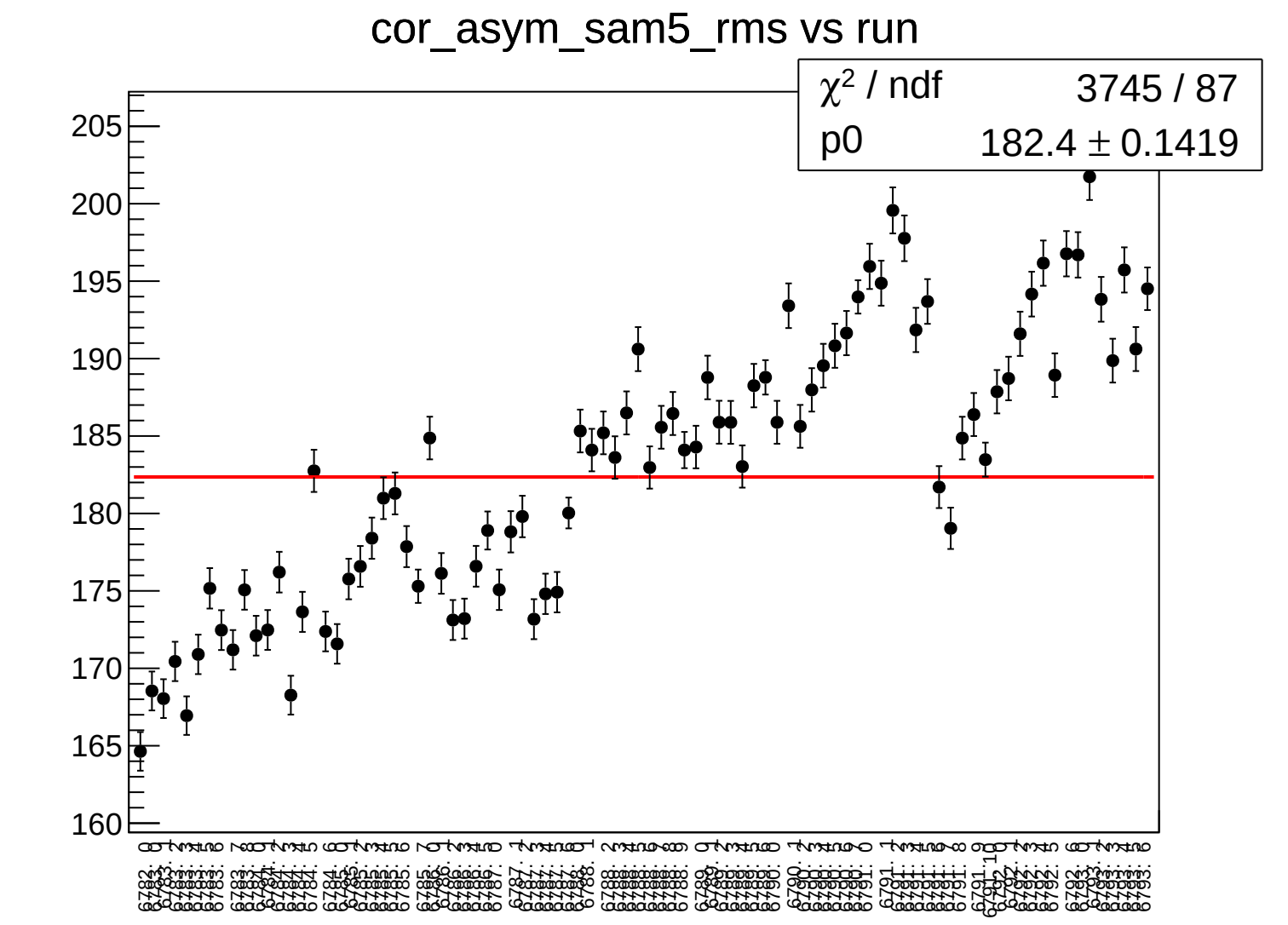

reg_asym_sam5_rms vs run
χ² / ndf 3745 / 87
p0 182.4 ± 0.1419
205
200
195
190
185
180
175
170
165
160

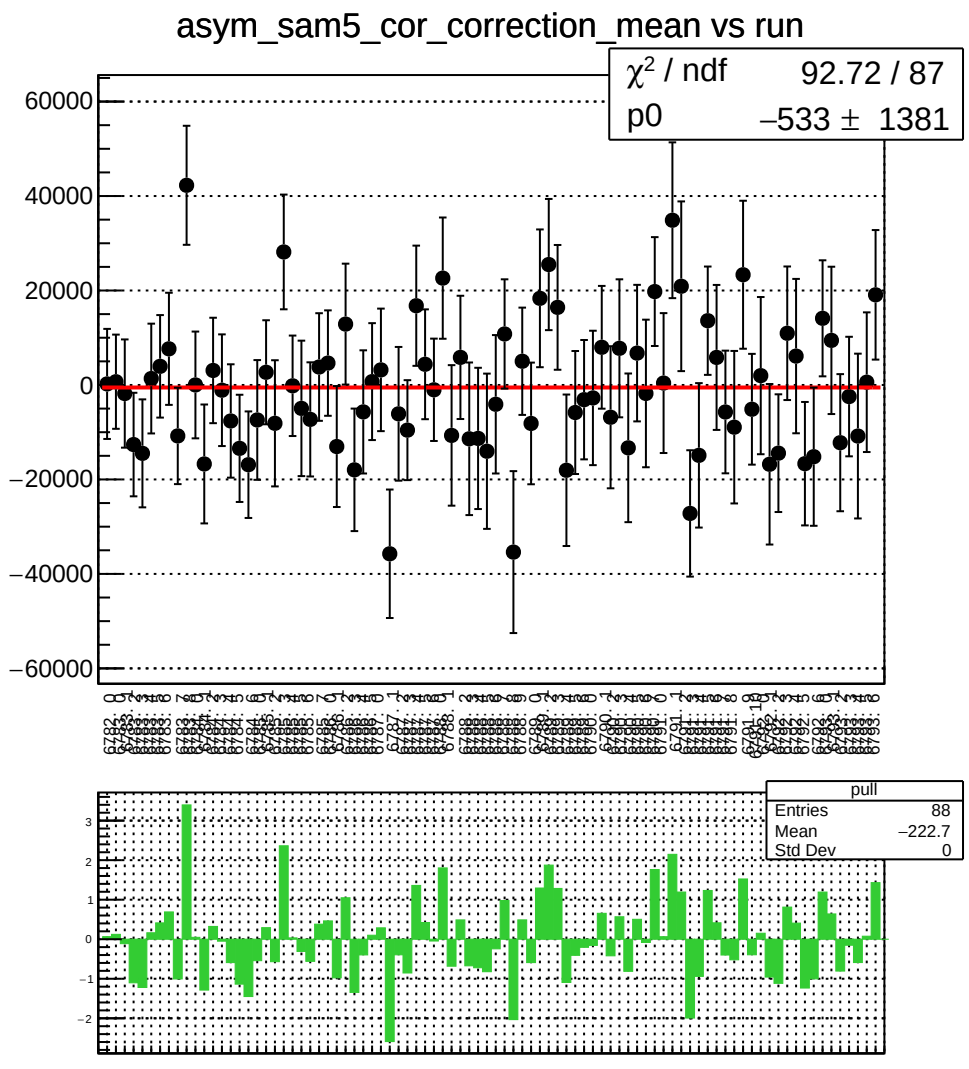

asym_sam5_reg_correction_mean vs run
χ² / ndf 92.72 / 87
p0 −533.1± 1381
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −222.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006832
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

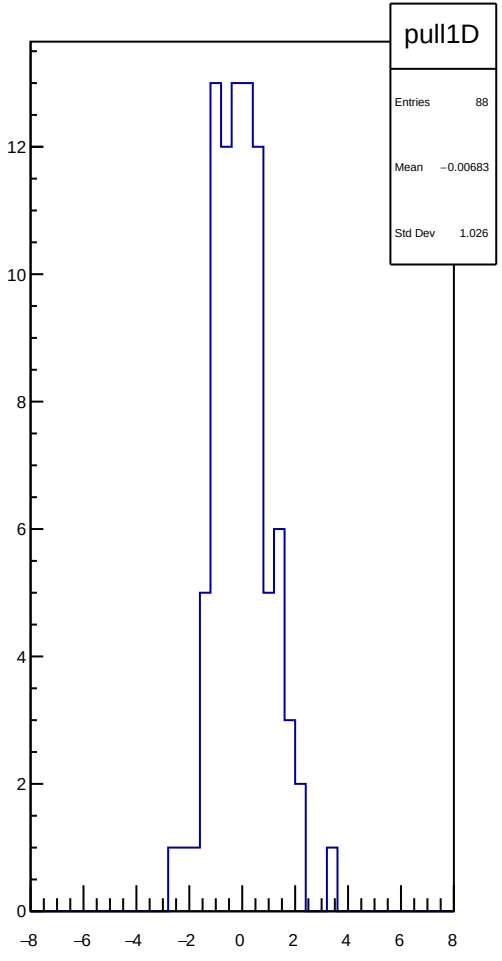

asym_sam5_reg_correction_rms vs run
χ² / ndf 3.074e+04 / 87
p0 1244 ± 0.9763
1700
1600
1500
1400
1300
1200
1100
1000
900

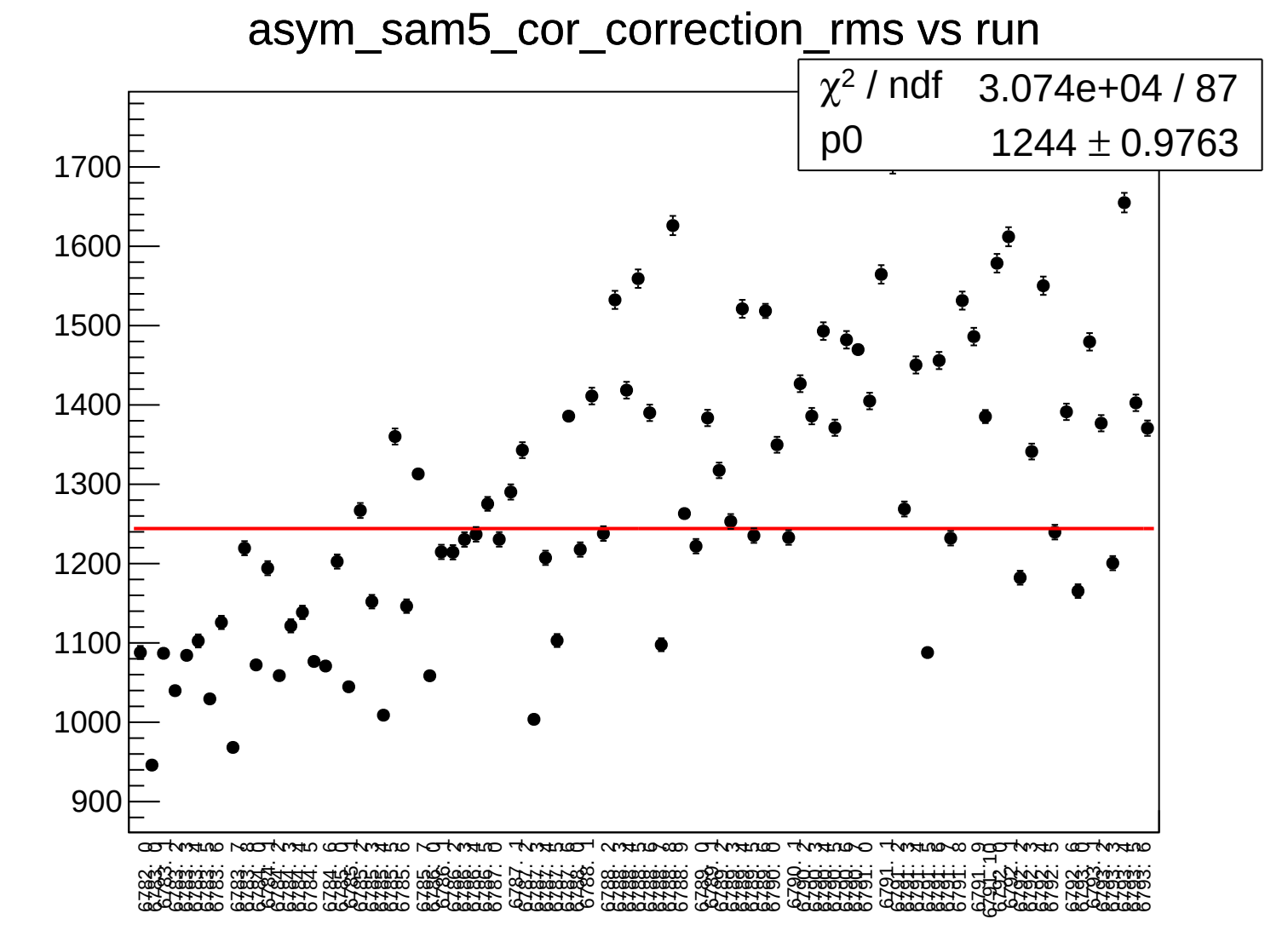

cor_asym_sam5_mean vs run
χ² / ndf 72.7 / 87
p0 −122.5 ± 200.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 74.93
Std Dev 91.73
2
1
0
−1
−2

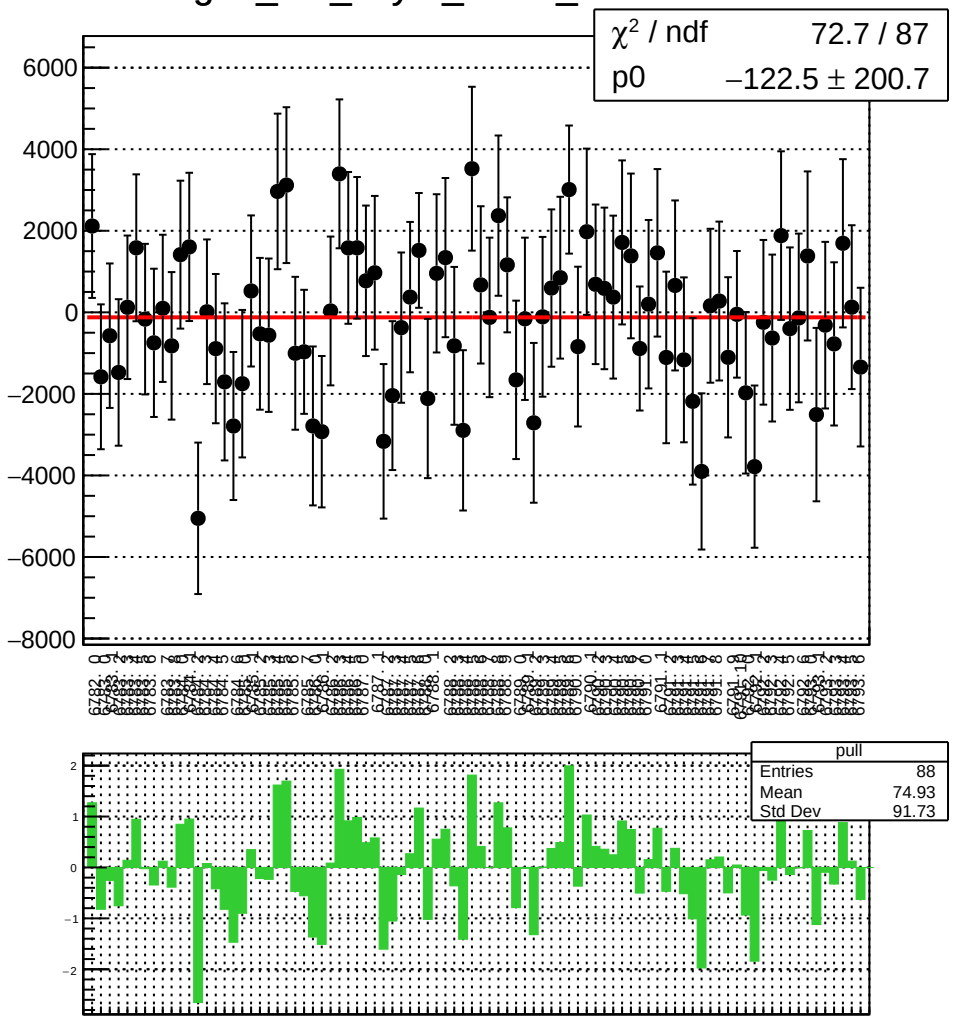

pull1D
Entries 88
Mean −0.007513
Std Dev 0.9089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

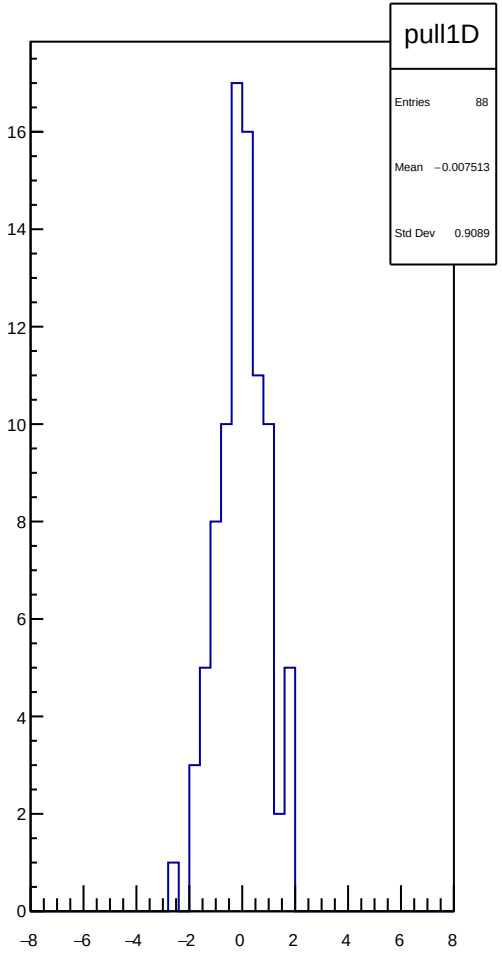

cor_asym_sam5_rms vs run
χ² / ndf 3745 / 87
p0 182.4 ± 0.1419
205
200
195
190
185
180
175
170
165
160

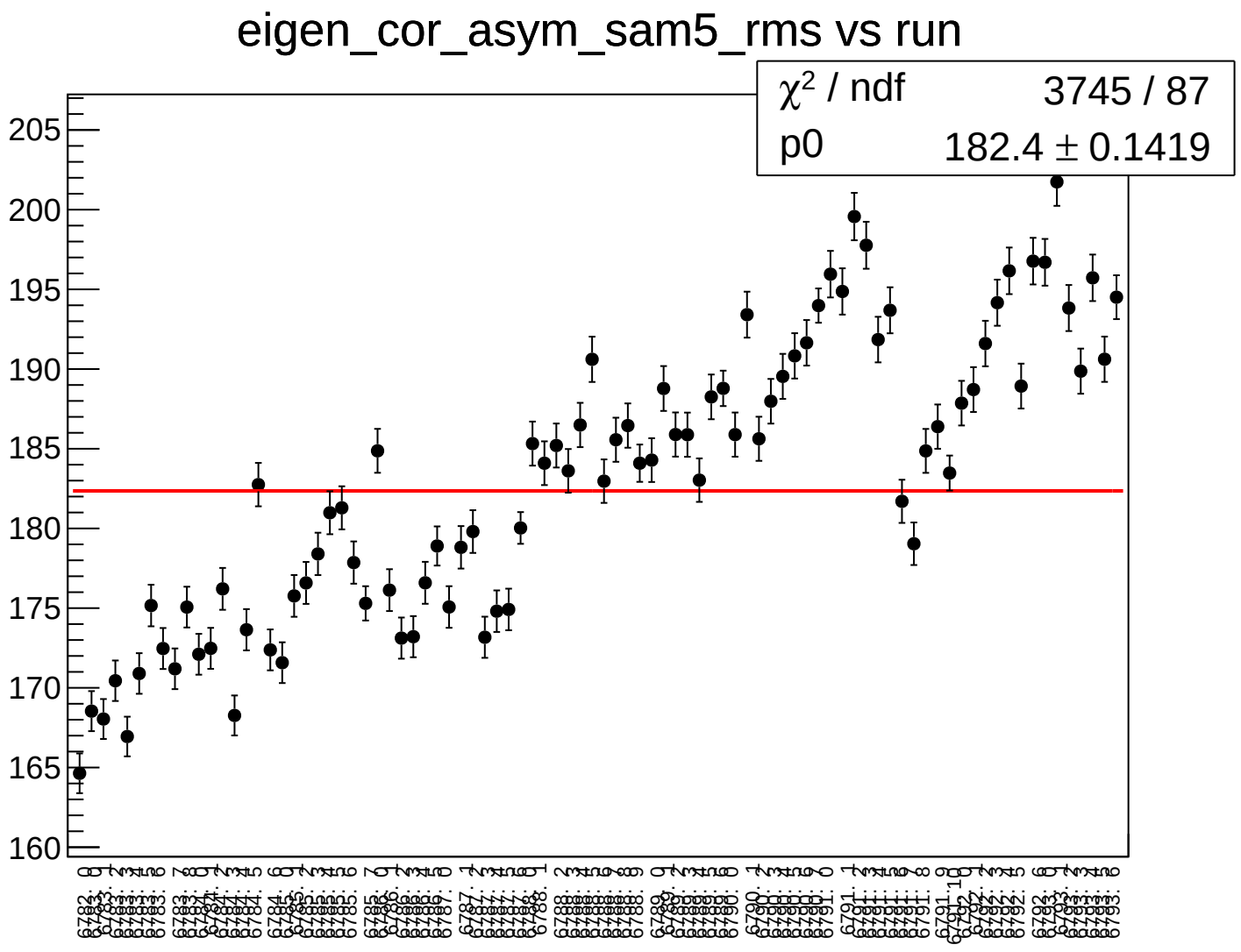

asym_sam5_cor_correction_mean vs run
χ² / ndf 92.72 / 87
p0 −533 ± 1381
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −222.7
Std Dev 0
3
2
1
0
−1
−2

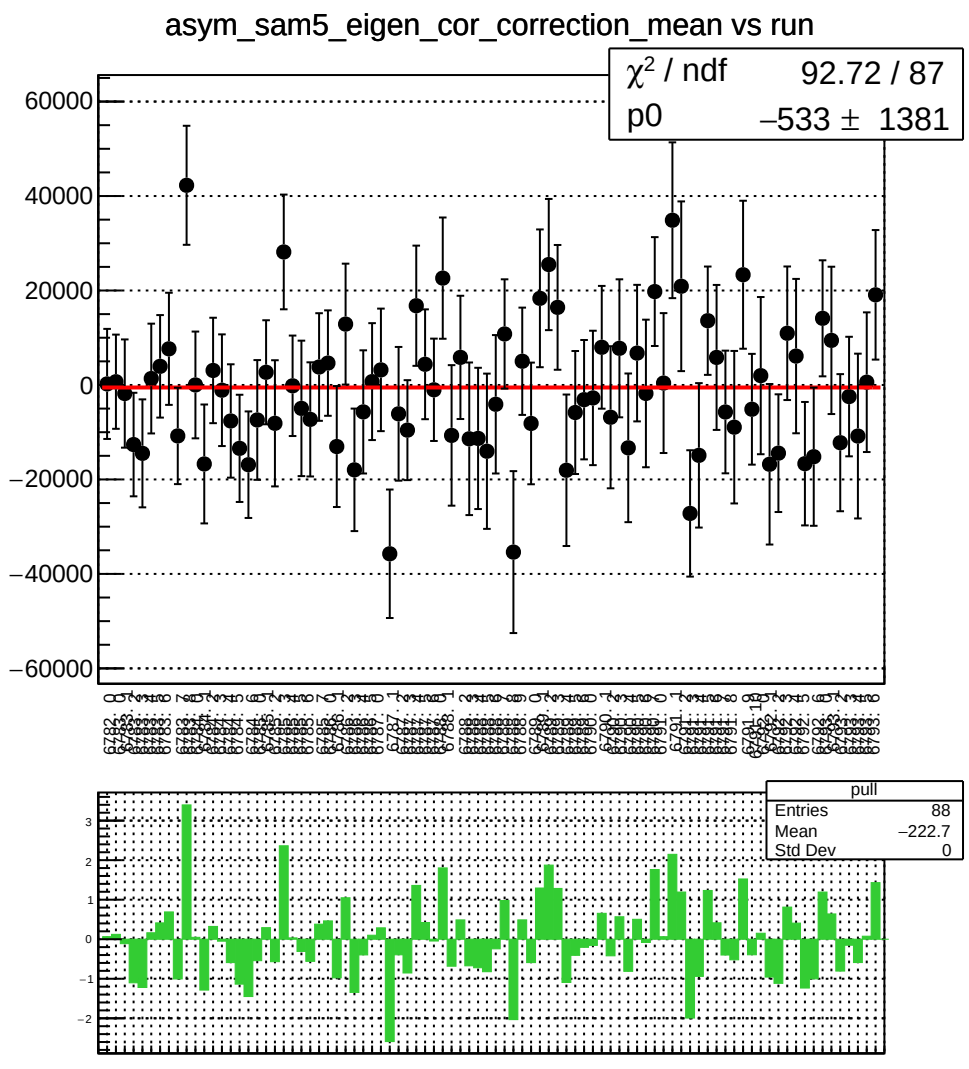

pull1D
Entries 88
Mean −0.00683
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

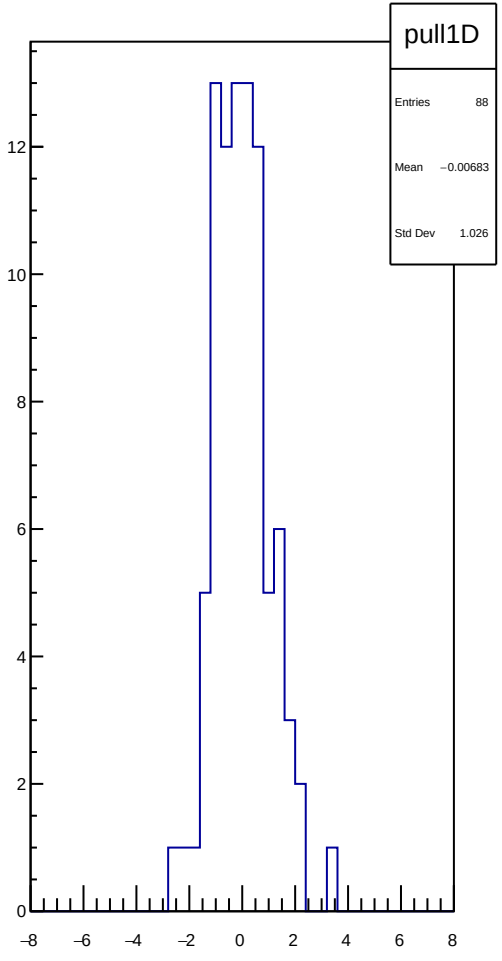

asym_sam5_cor_correction_rms vs run
χ² / ndf 3.074e+04 / 87
p0 1244 ± 0.9763
1700
1600
1500
1400
1300
1200
1100
1000
900

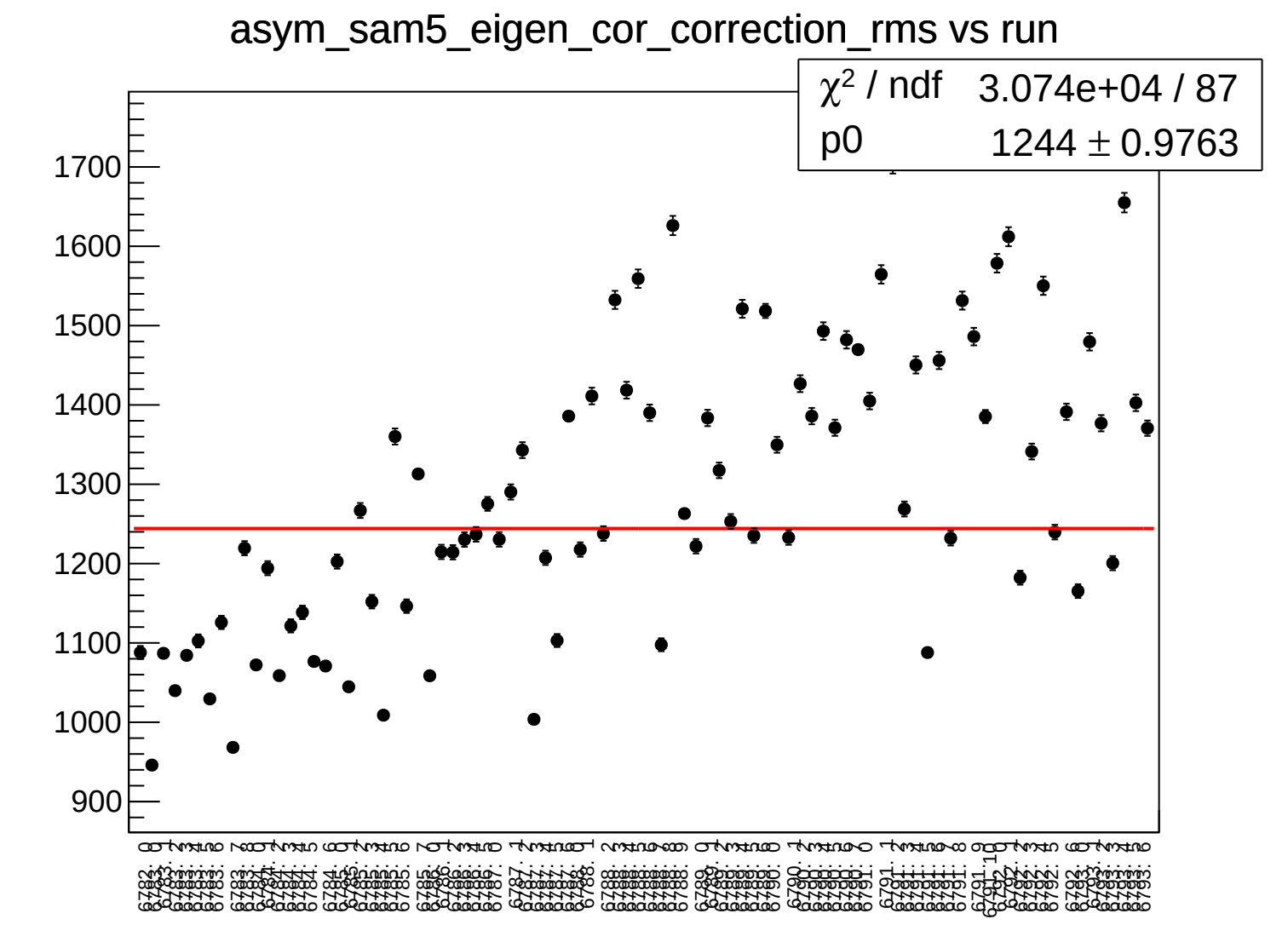

eigen_cor_asym_sam5_mean vs run
χ² / ndf 72.7 / 87
p0 −122.5 ± 200.7
pull
Entries 88
Mean 74.93
Std Dev 91.73

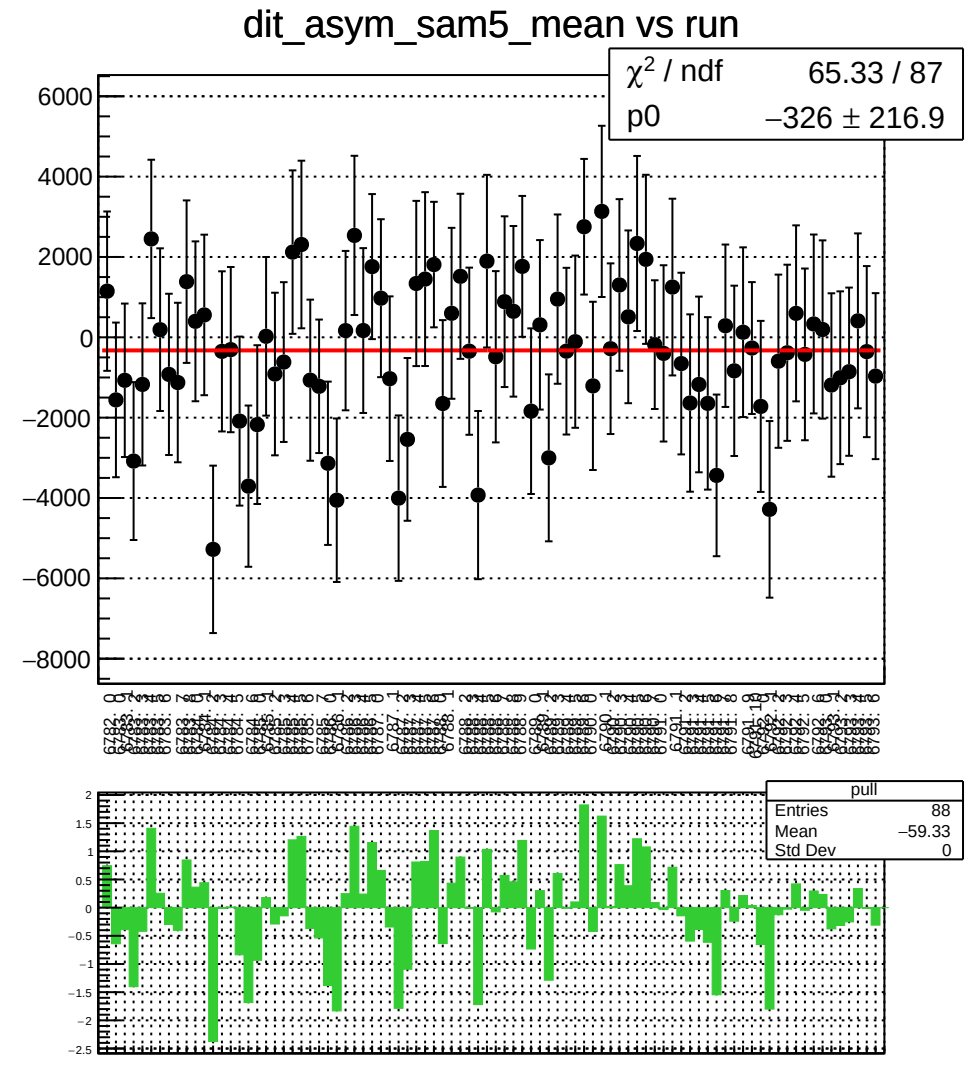

pull1D
Entries 88
Mean −0.007513
Std Dev 0.9089

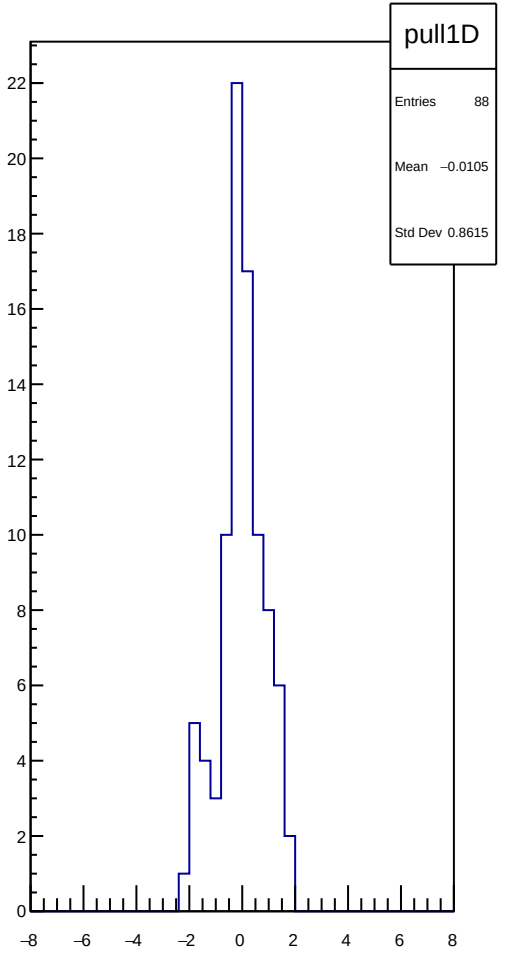

eigen_cor_asym_sam5_rms vs run
χ² / ndf 3745 / 87
p0 182.4 ± 0.1419
205
200
195
190
185
180
175
170
165
160

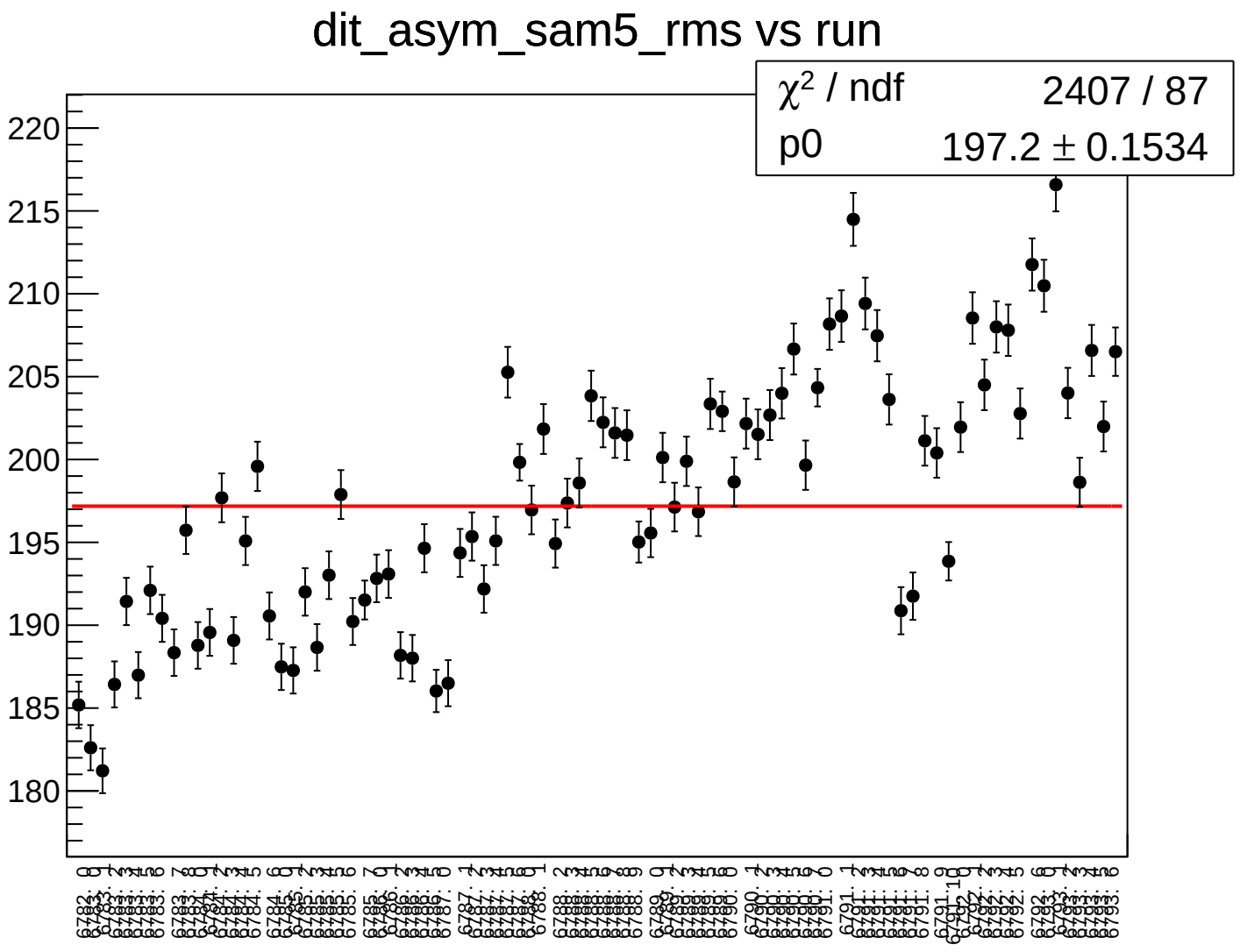

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 92.72 / 87
p0 −533 ± 1381
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −222.7
Std Dev 0
3
2
1
0
−1
−2

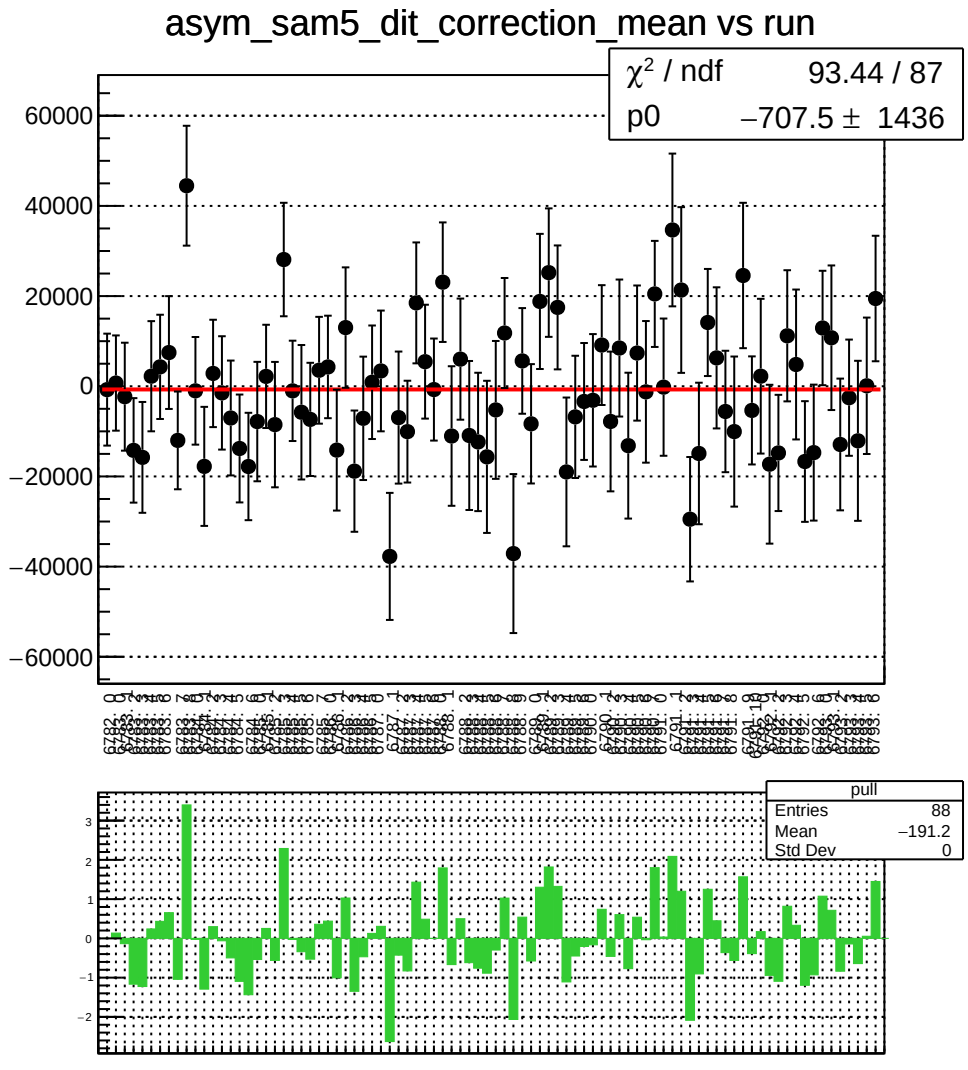

pull1D
Entries 88
Mean −0.00683
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

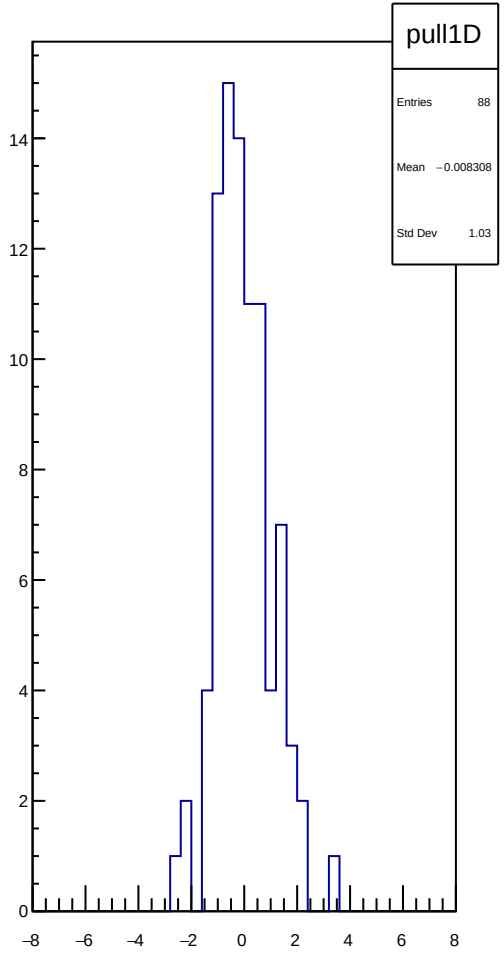

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3.074e+04 / 87
p0 1244 ± 0.9763
1700
1600
1500
1400
1300
1200
1100
1000
900

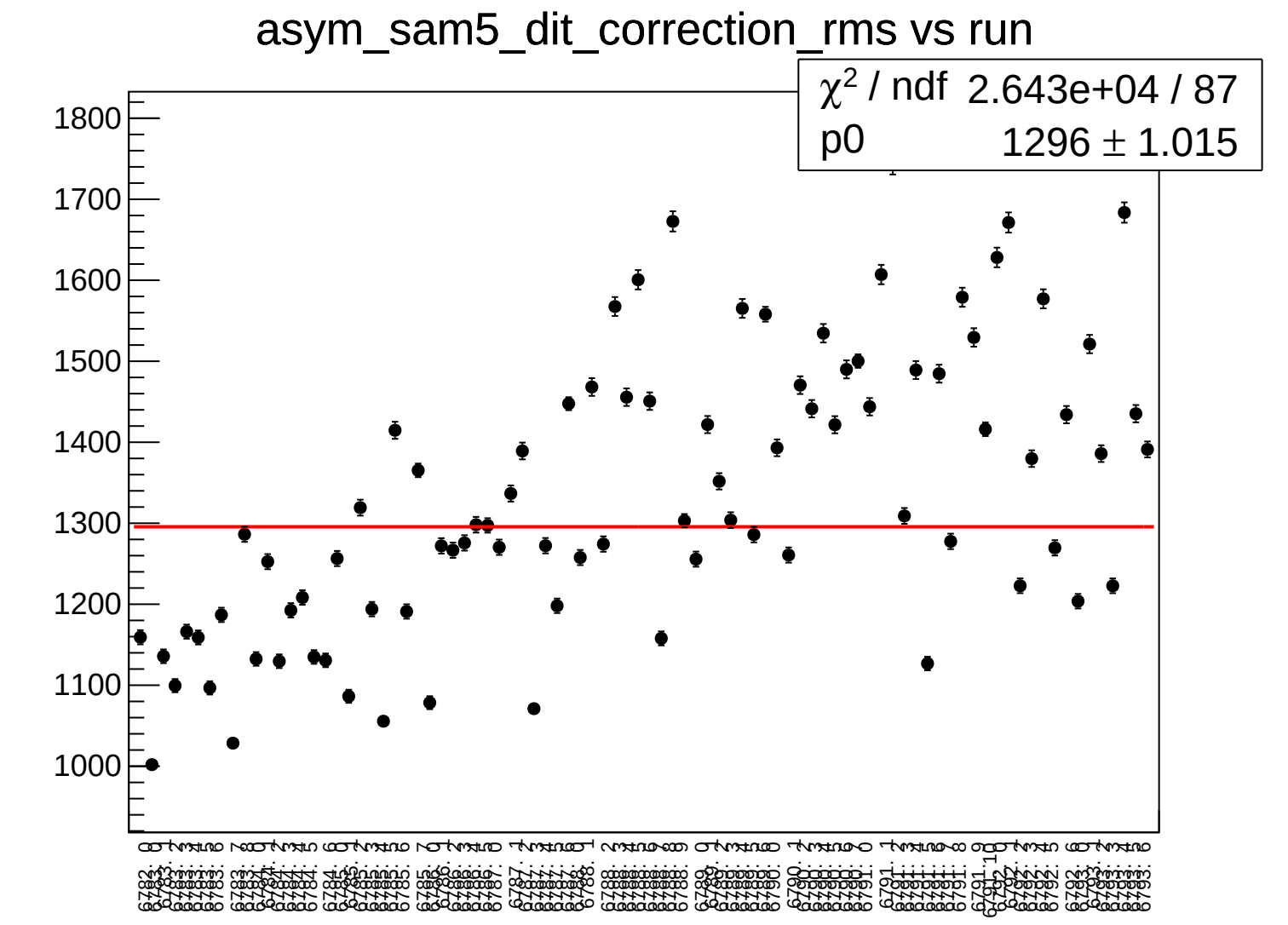

dit_asym_sam5_mean vs run
χ² / ndf 65.33 / 87
p0 −326 ± 216.9
pull
Entries 88
Mean −59.33
Std Dev 0

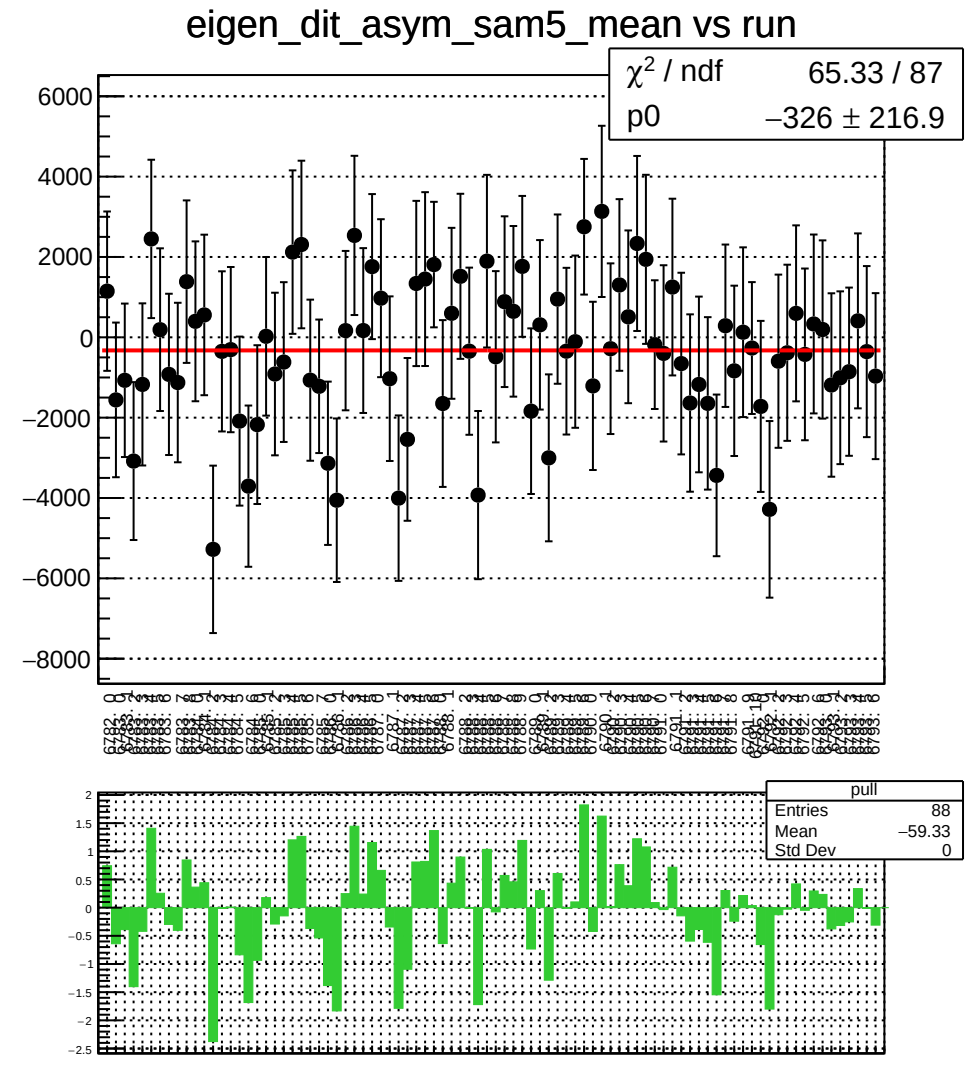

pull1D
Entries 88
Mean −0.0105
Std Dev 0.8615

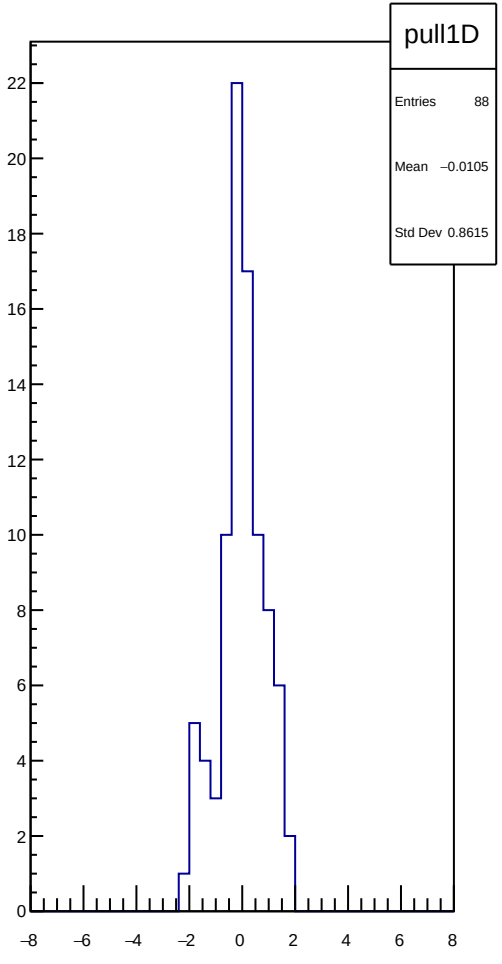

dit_asym_sam5_rms vs run
χ² / ndf 2407 / 87
p0 197.2 ± 0.1534
220
215
210
205
200
195
190
185
180

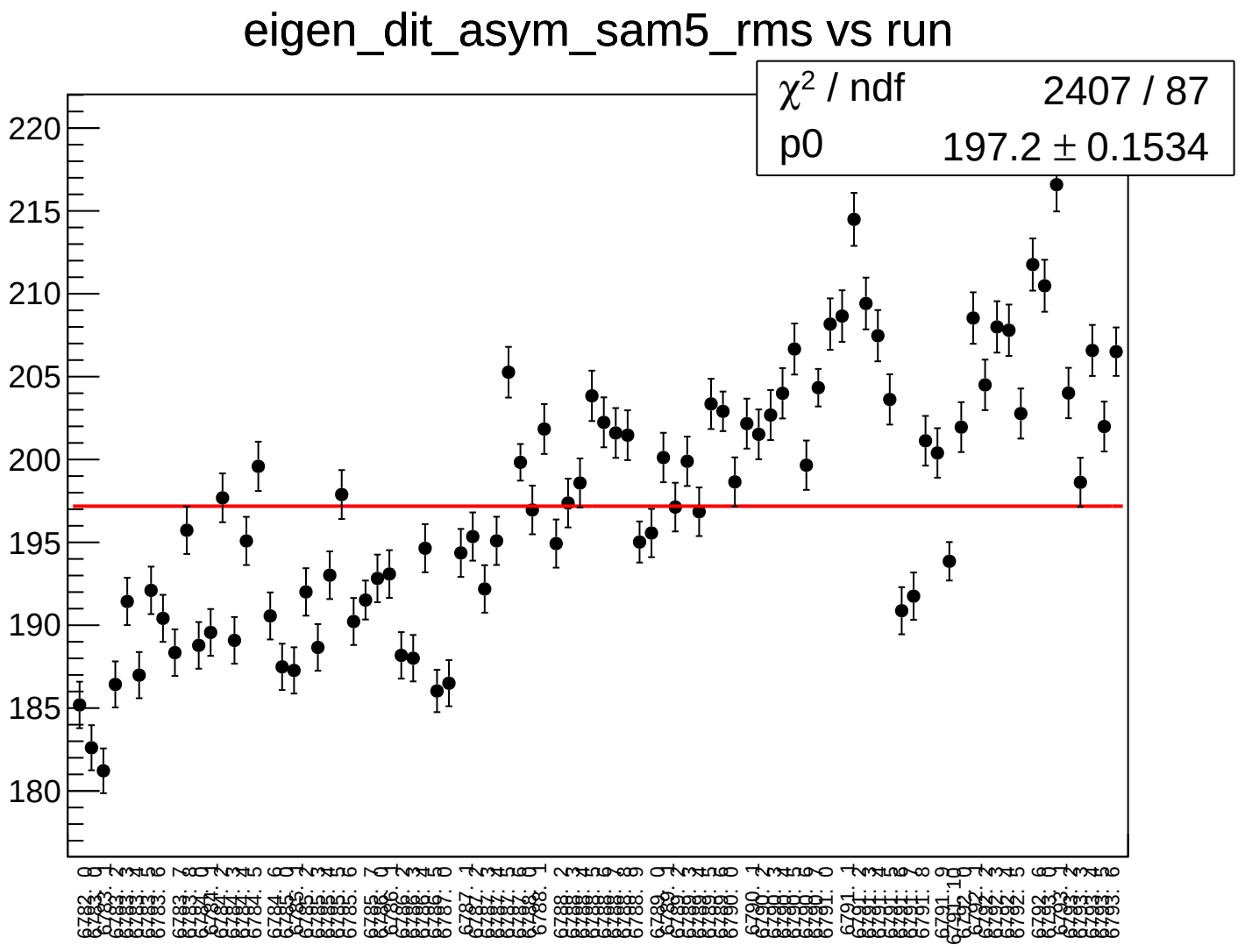

asym_sam5_dit_correction_mean vs run
χ² / ndf 93.44 / 87
p0 −707.5 ± 1436
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −191.2
Std Dev 0
3
2
1
0
−1
−2

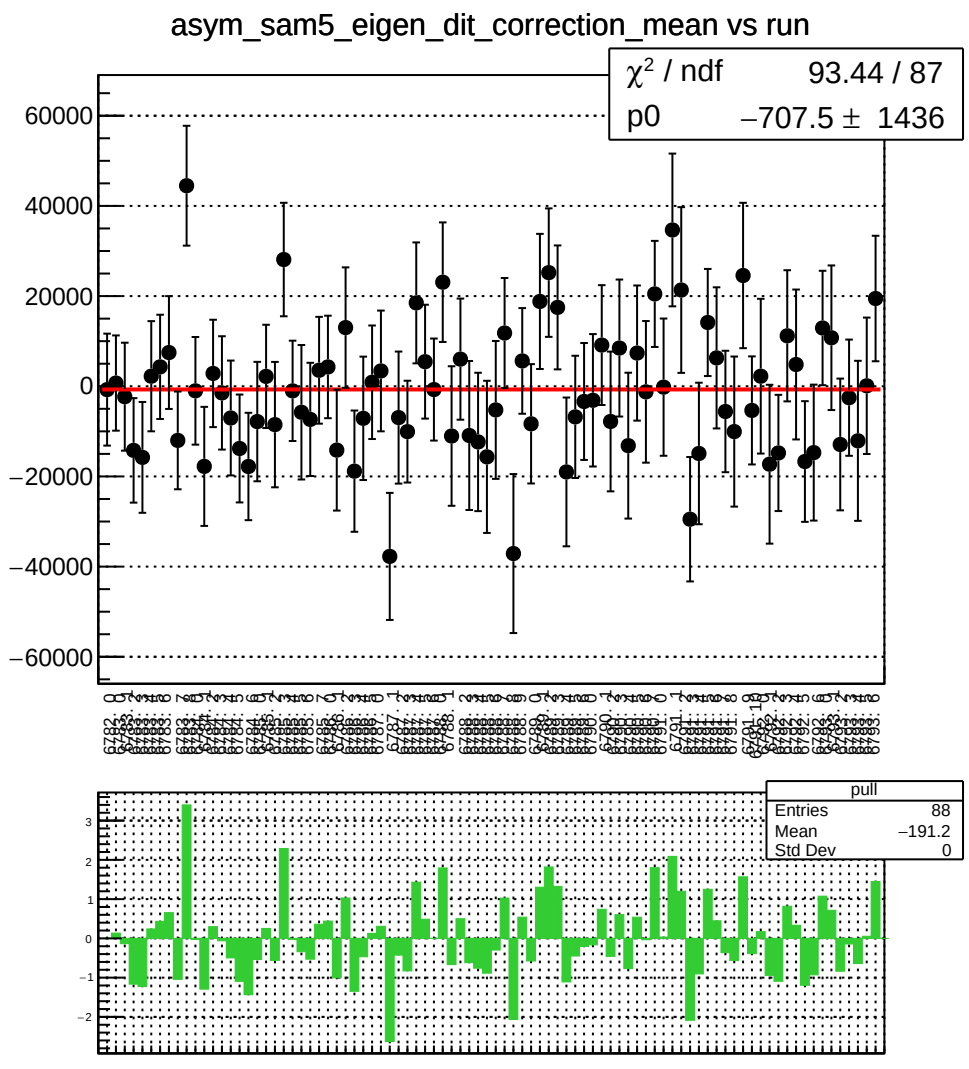

pull1D
Entries 88
Mean −0.008308
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

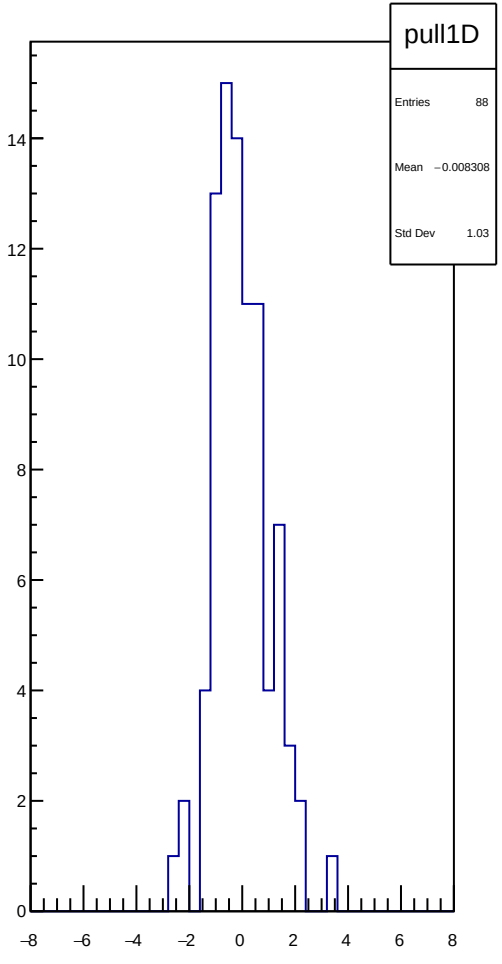

asym_sam5_dit_correction_rms vs run
χ² / ndf 2.643e+04 / 87
p0 1296 ± 1.015
1800
1700
1600
1500
1400
1300
1200
1100
1000

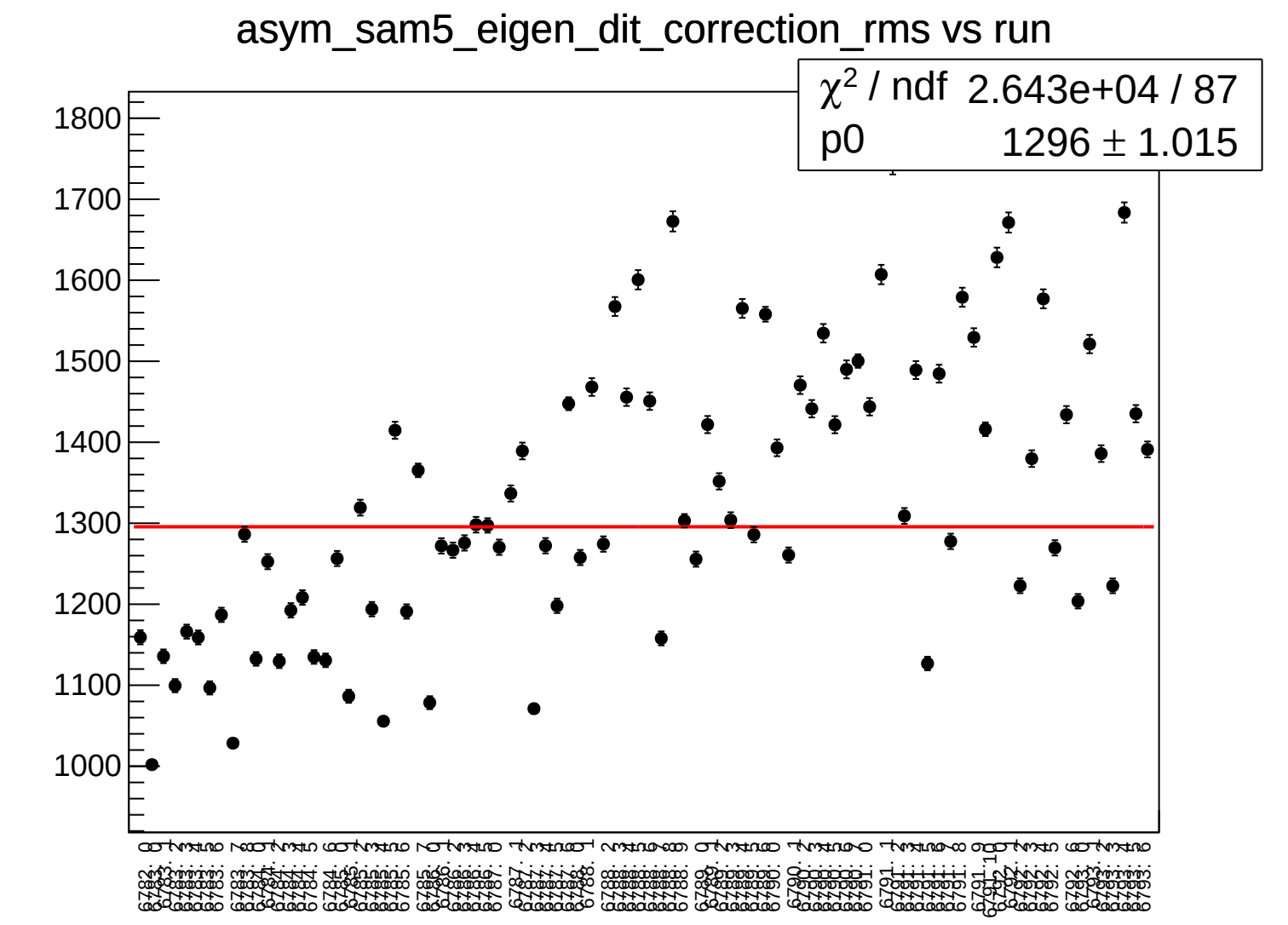

eigen_dit_asym_sam5_mean vs run
χ² / ndf 65.33 / 87
p0 −326 ± 216.9
pull
Entries 88
Mean −59.33
Std Dev 0

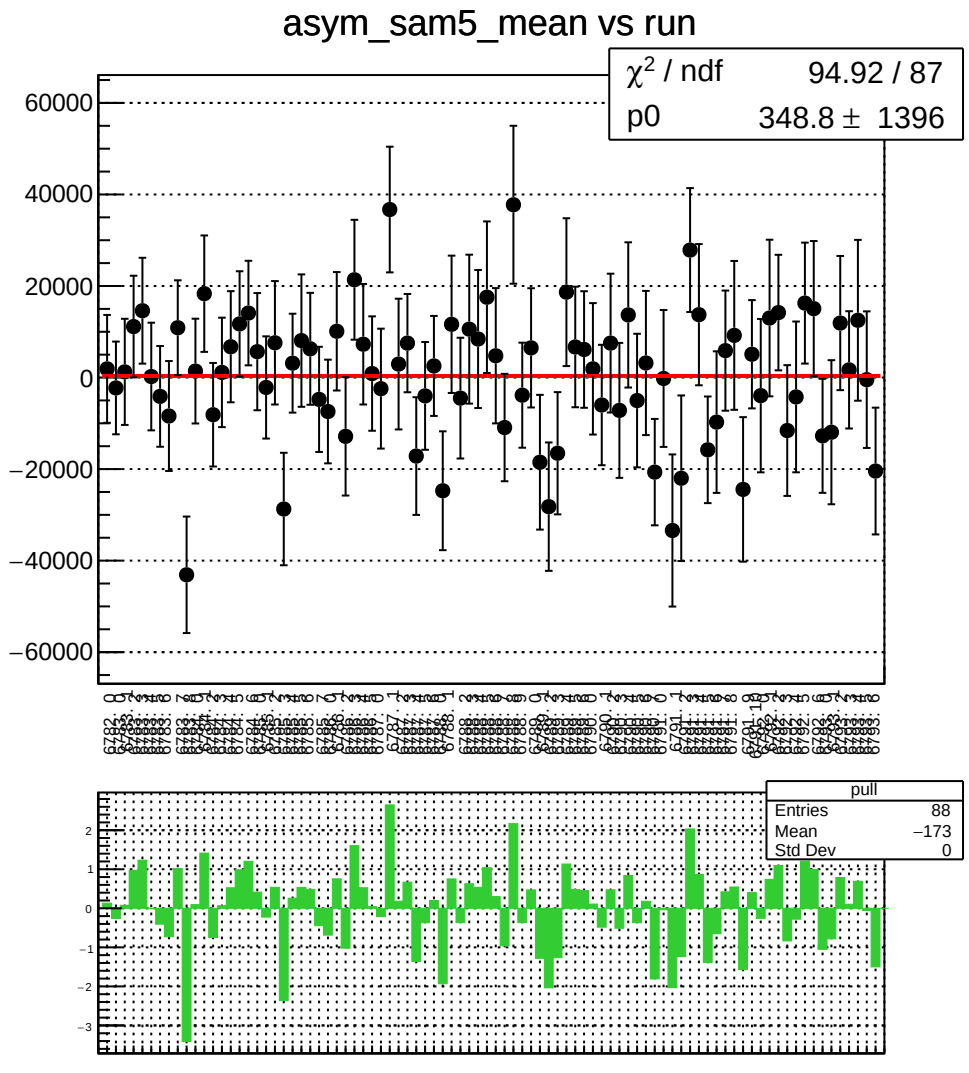

pull1D
Entries 88
Mean −0.0105
Std Dev 0.8615

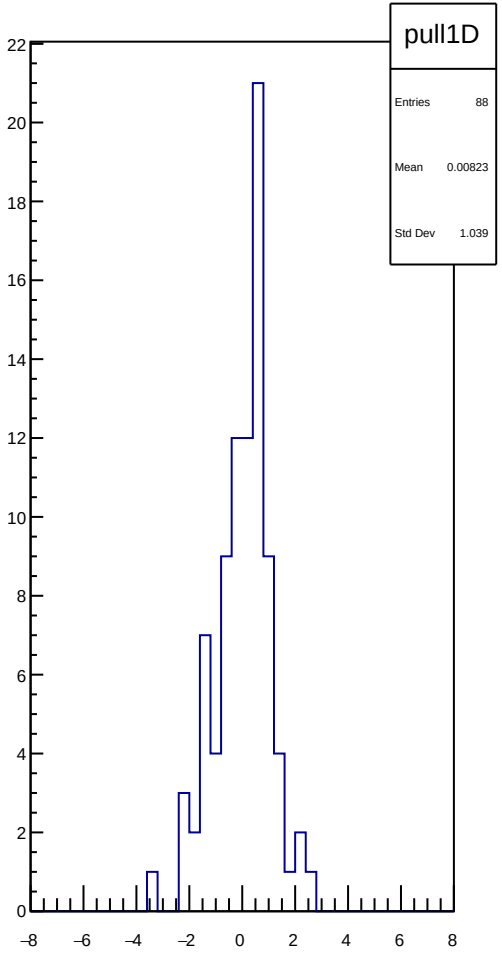

eigen_dit_asym_sam5_rms vs run
χ² / ndf 2407 / 87
p0 197.2 ± 0.1534
220
215
210
205
200
195
190
185
180

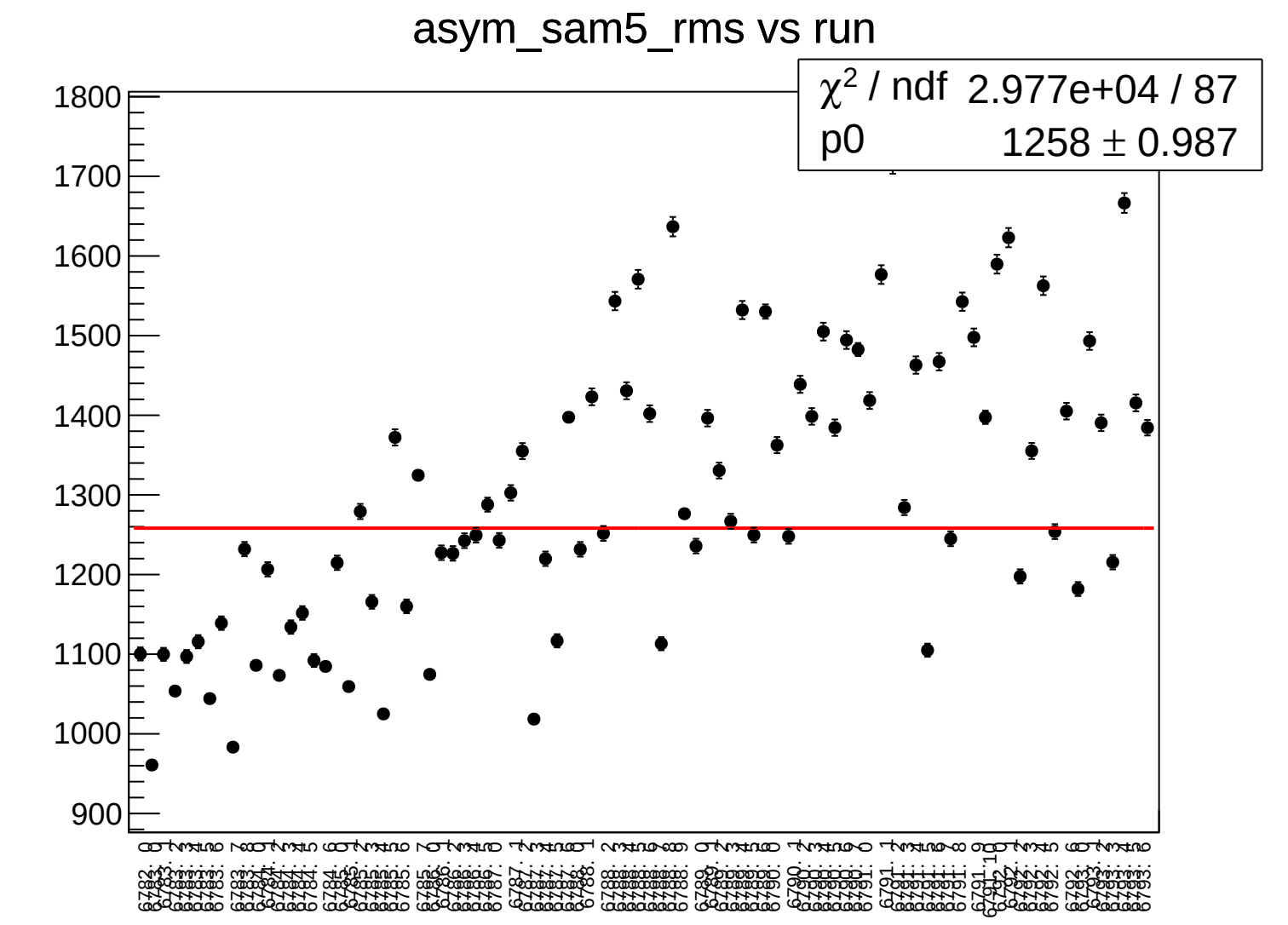

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 93.44 / 87
p0 −707.5 ± 1436
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −191.2
Std Dev 0
3
2
1
0
−1
−2

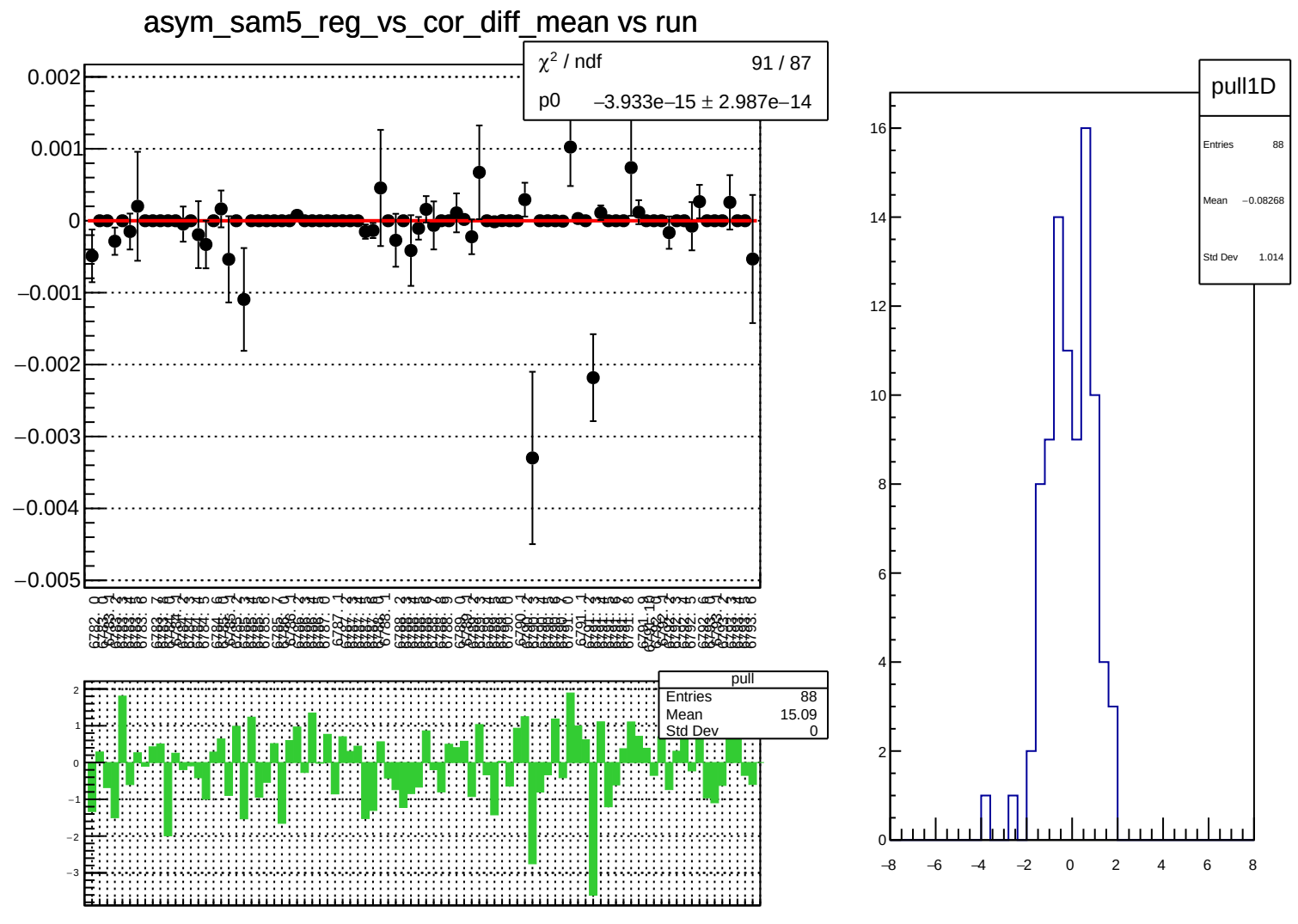

pull1D
Entries 88
Mean −0.008308
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

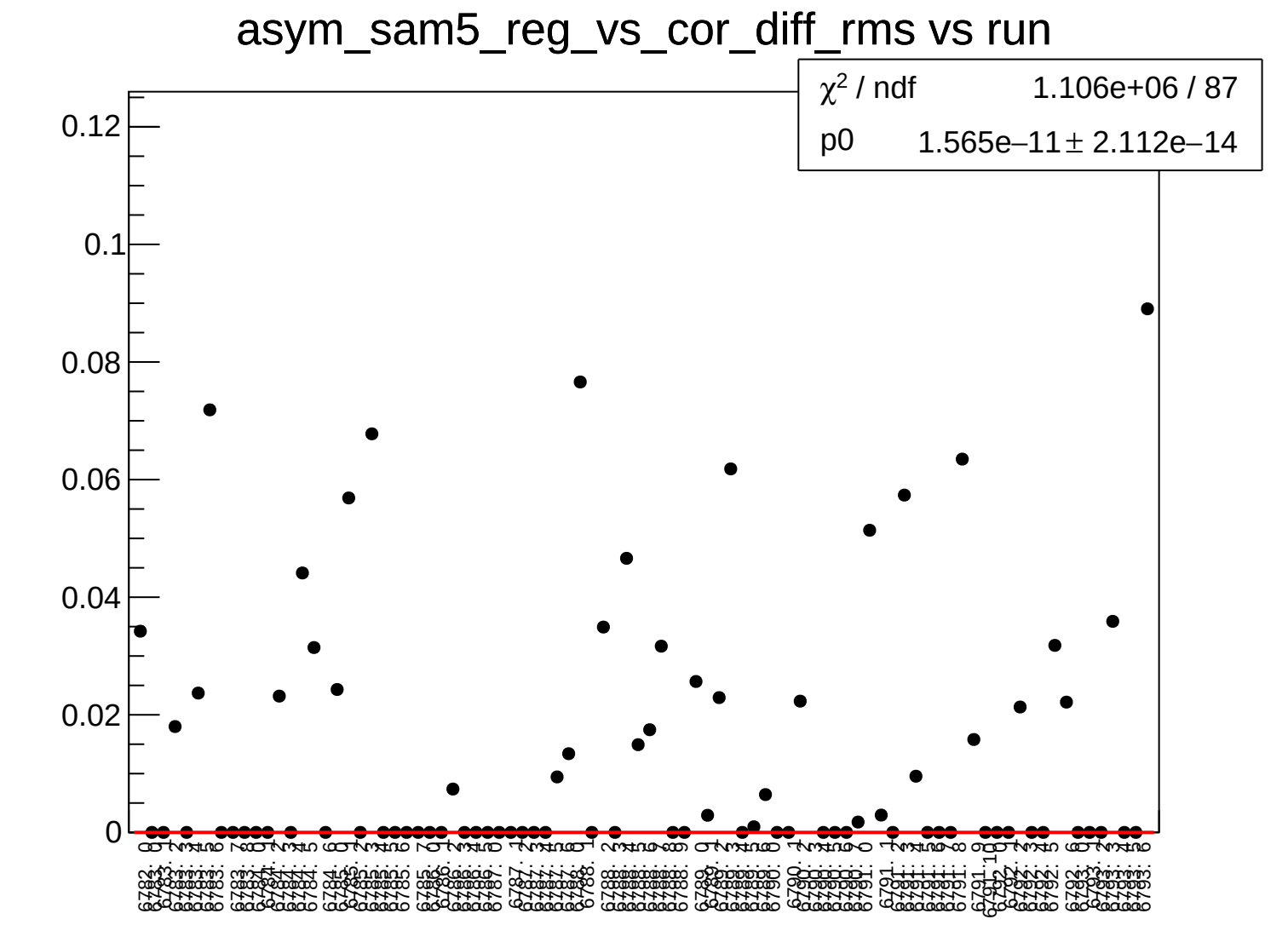

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2.643e+04 / 87
p0 1296 ± 1.015
1800
1700
1600
1500
1400
1300
1200
1100
1000

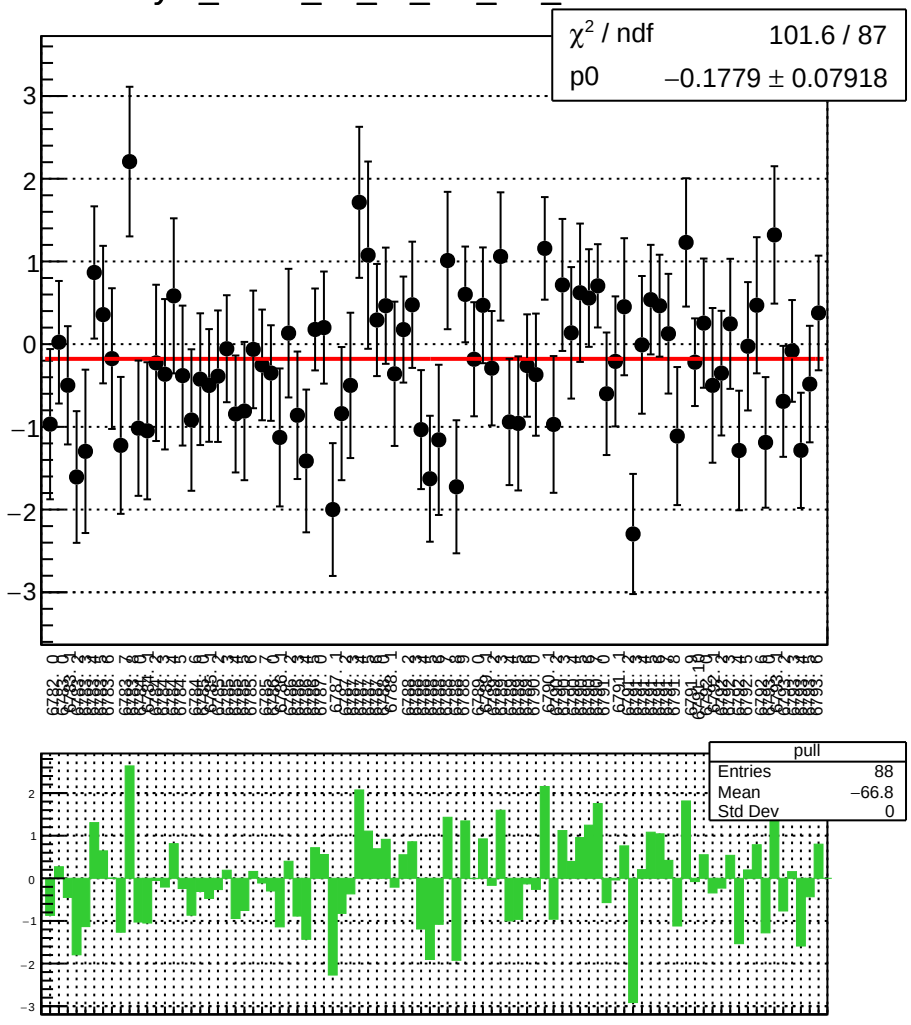

asym_sam5_mean vs run
χ² / ndf 94.92 / 87
p0 348.8 ± 1396
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −173
Std Dev 0
2
1
0
−1
−2
−3

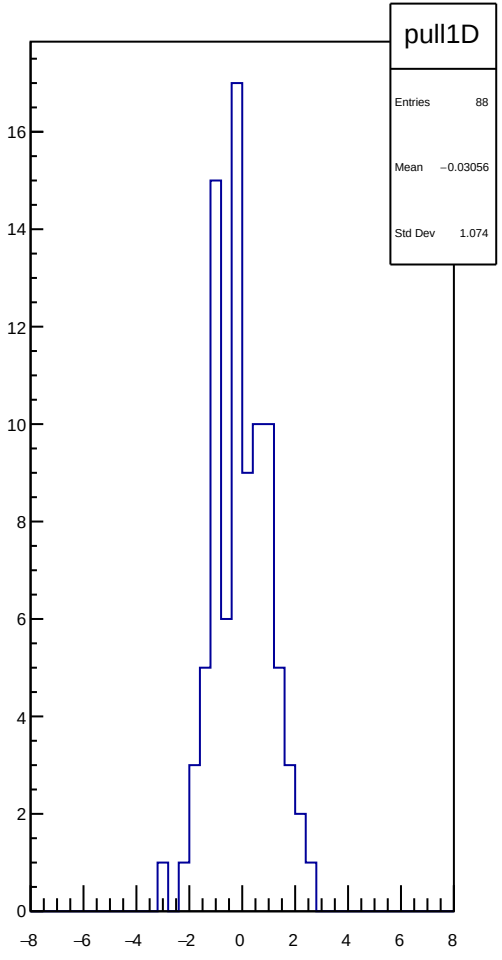

pull1D
Entries 88
Mean 0.00823
Std Dev 1.039
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

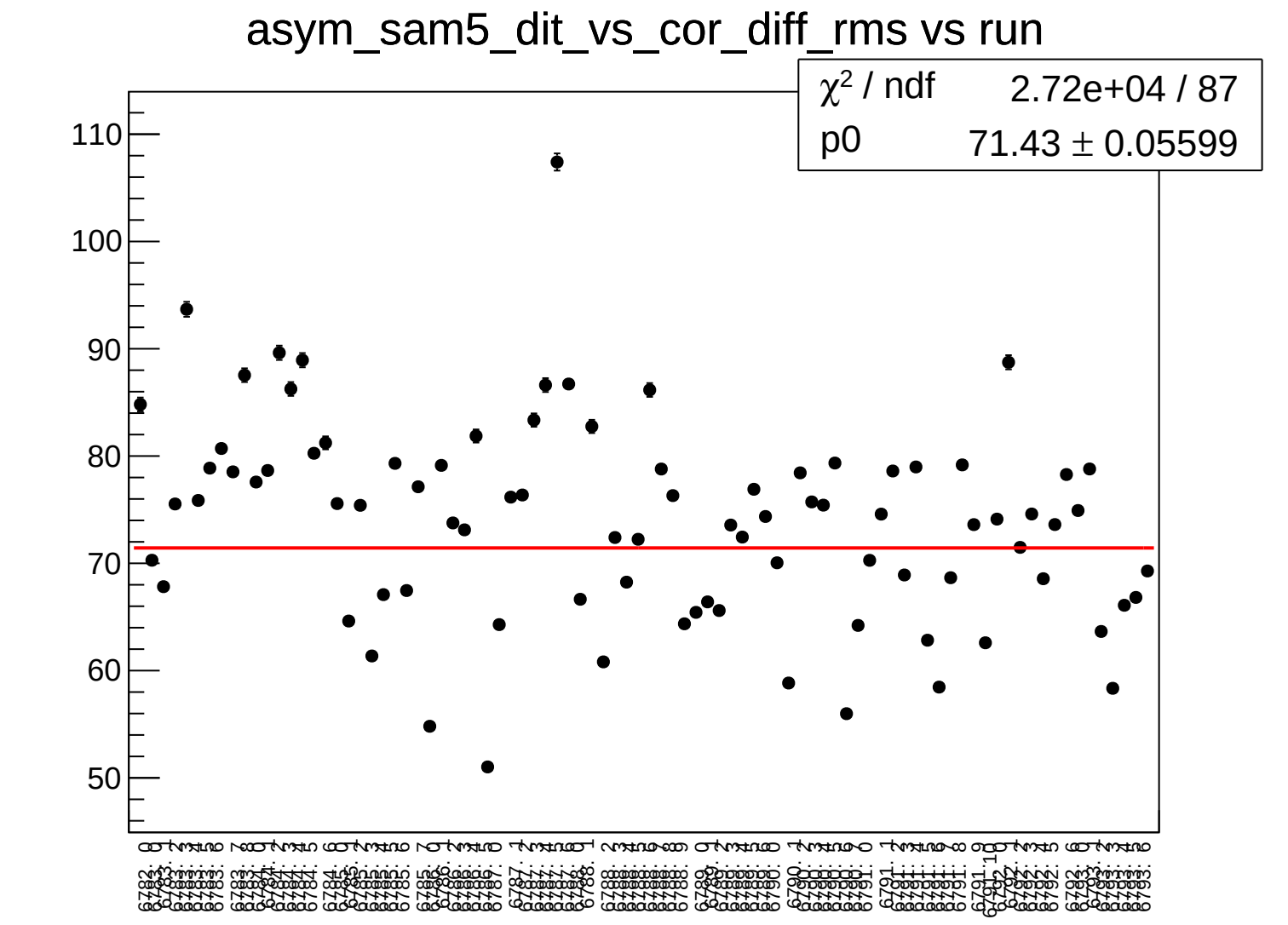

asym_sam5_rms vs run
χ^2 / ndf 2.977e+04 / 87
p0 1258 ± 0.987
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

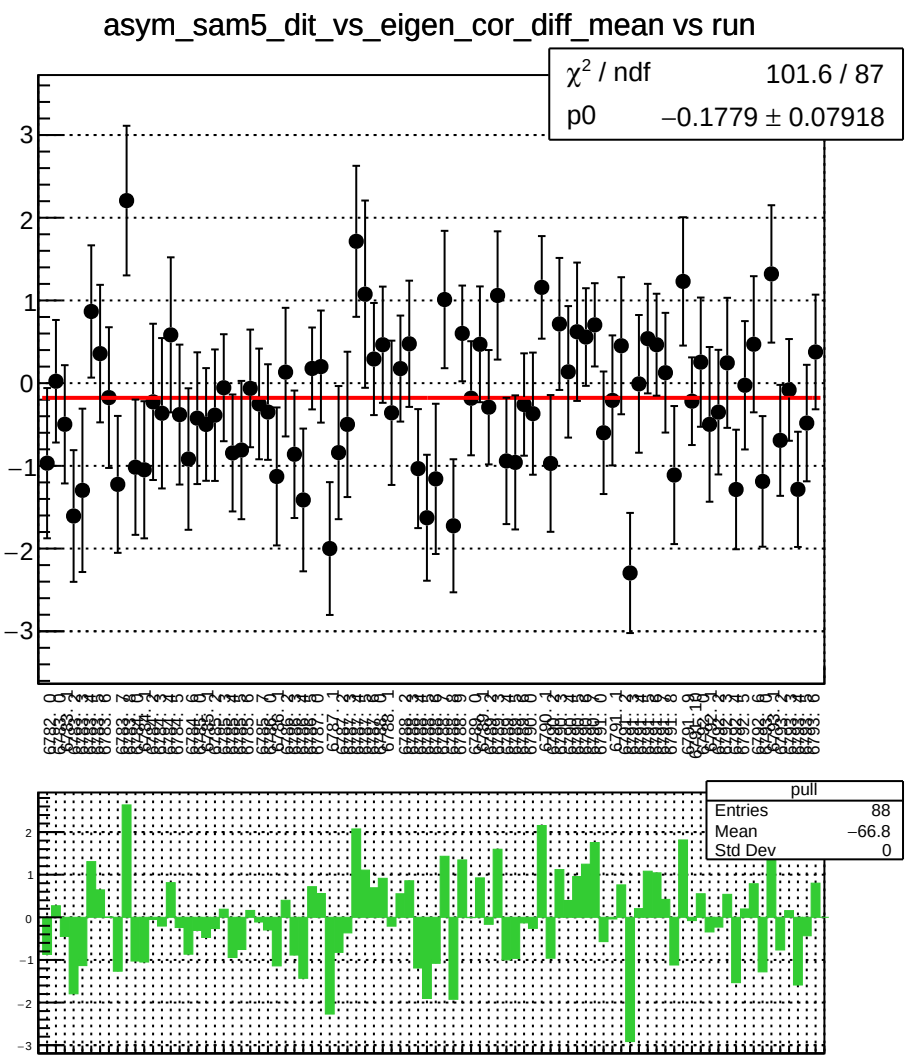

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 91 / 87
p0 −3.933e−15 ± 2.987e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 88
Mean 15.09
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.08268
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

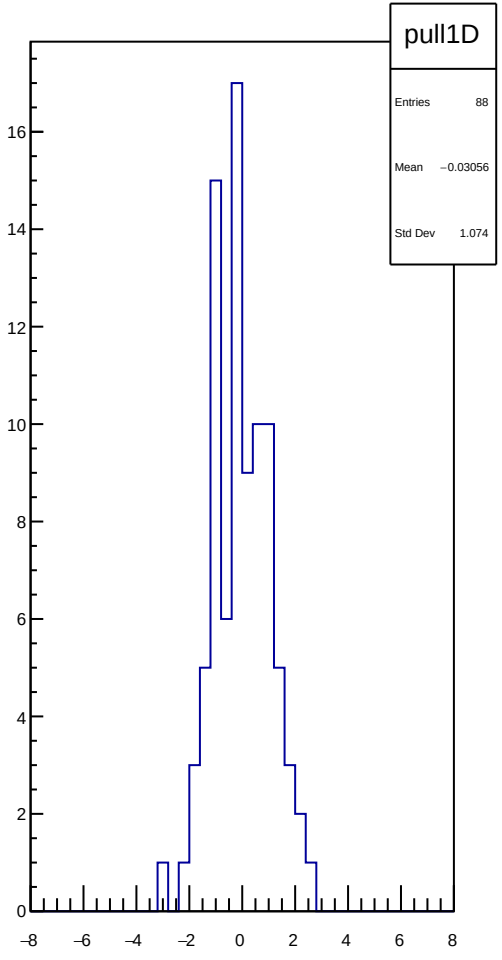

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 87
p0 1.565e−11 ± 2.112e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

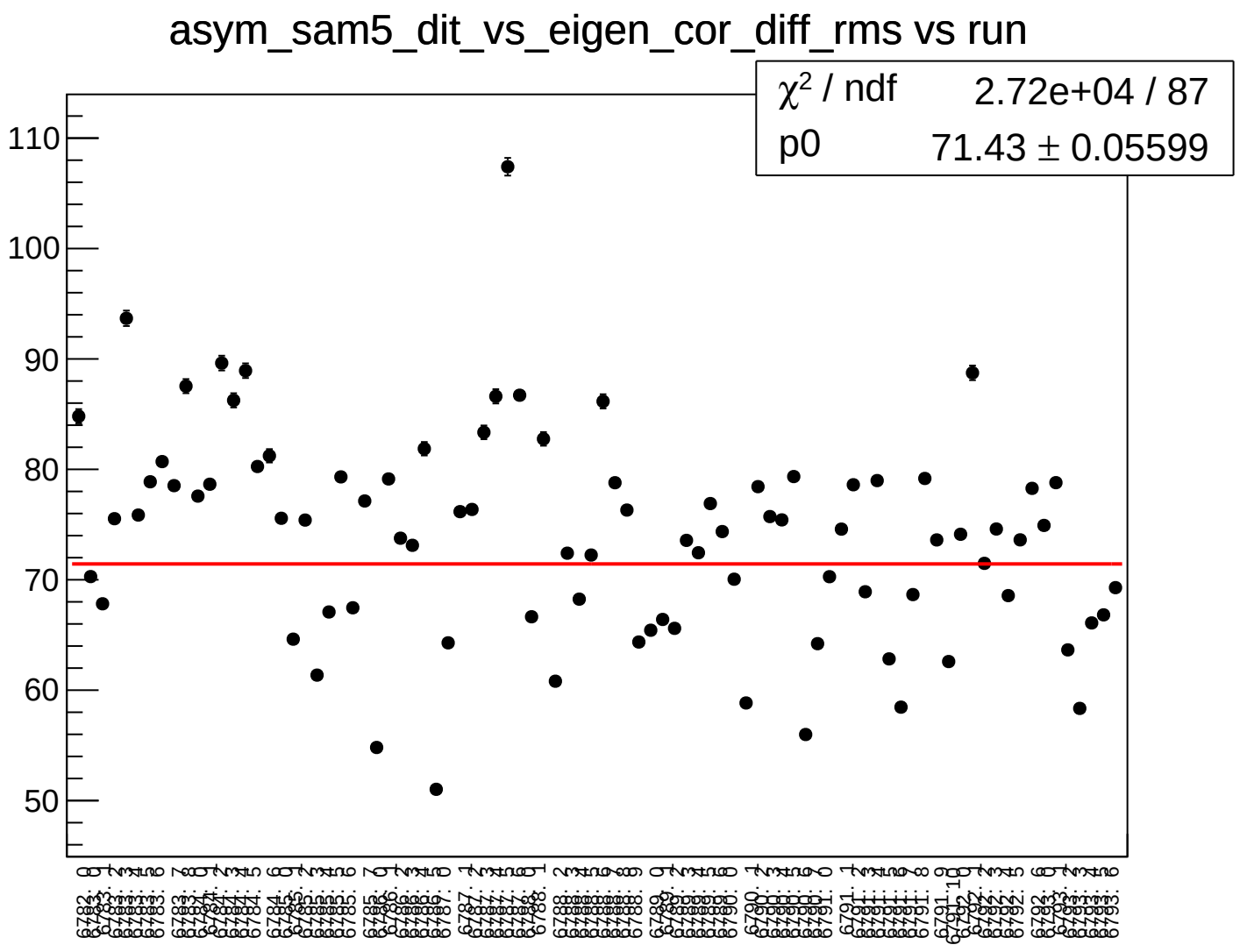

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 87
p0 −0.1779 ± 0.07918
pull
Entries 88
Mean −66.8
Std Dev 0

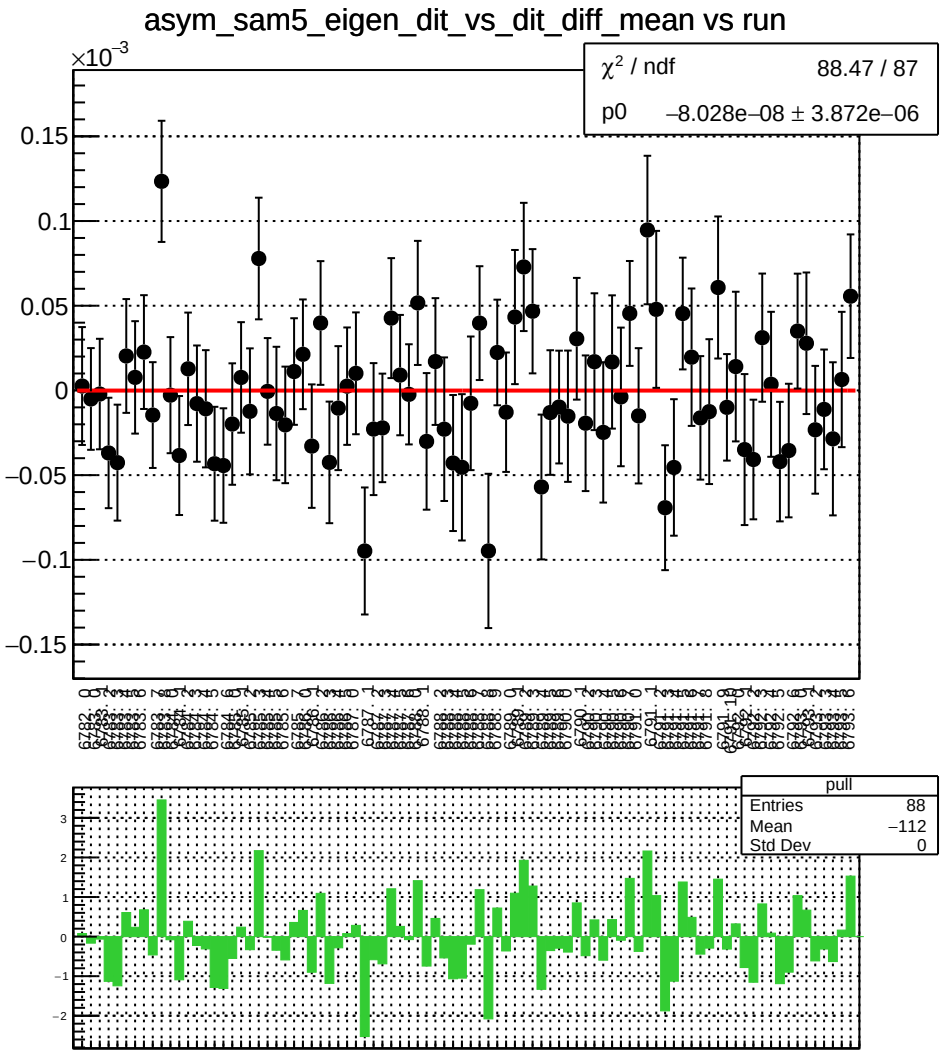

pull1D
Entries 88
Mean −0.03056
Std Dev 1.074

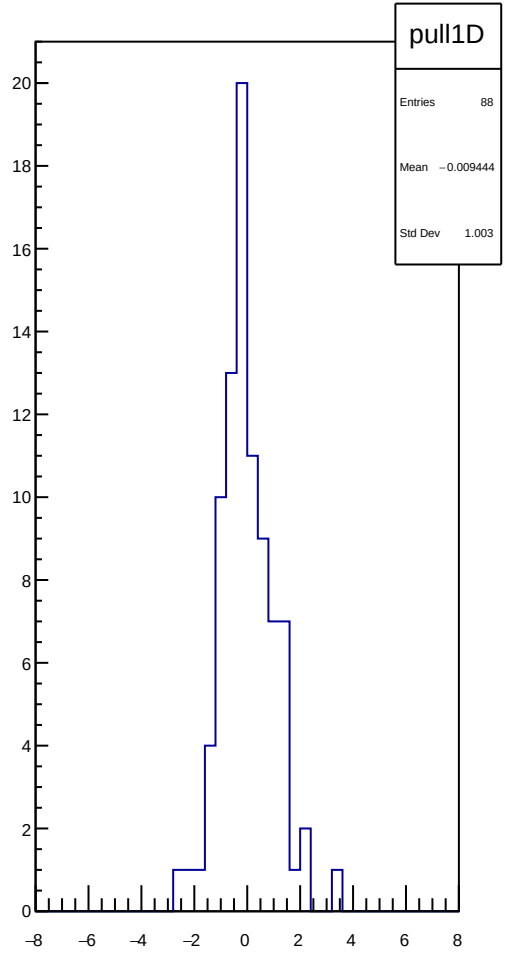

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.72e+04 / 87
p0 71.43 ± 0.05599
110
100
90
80
70
60
50

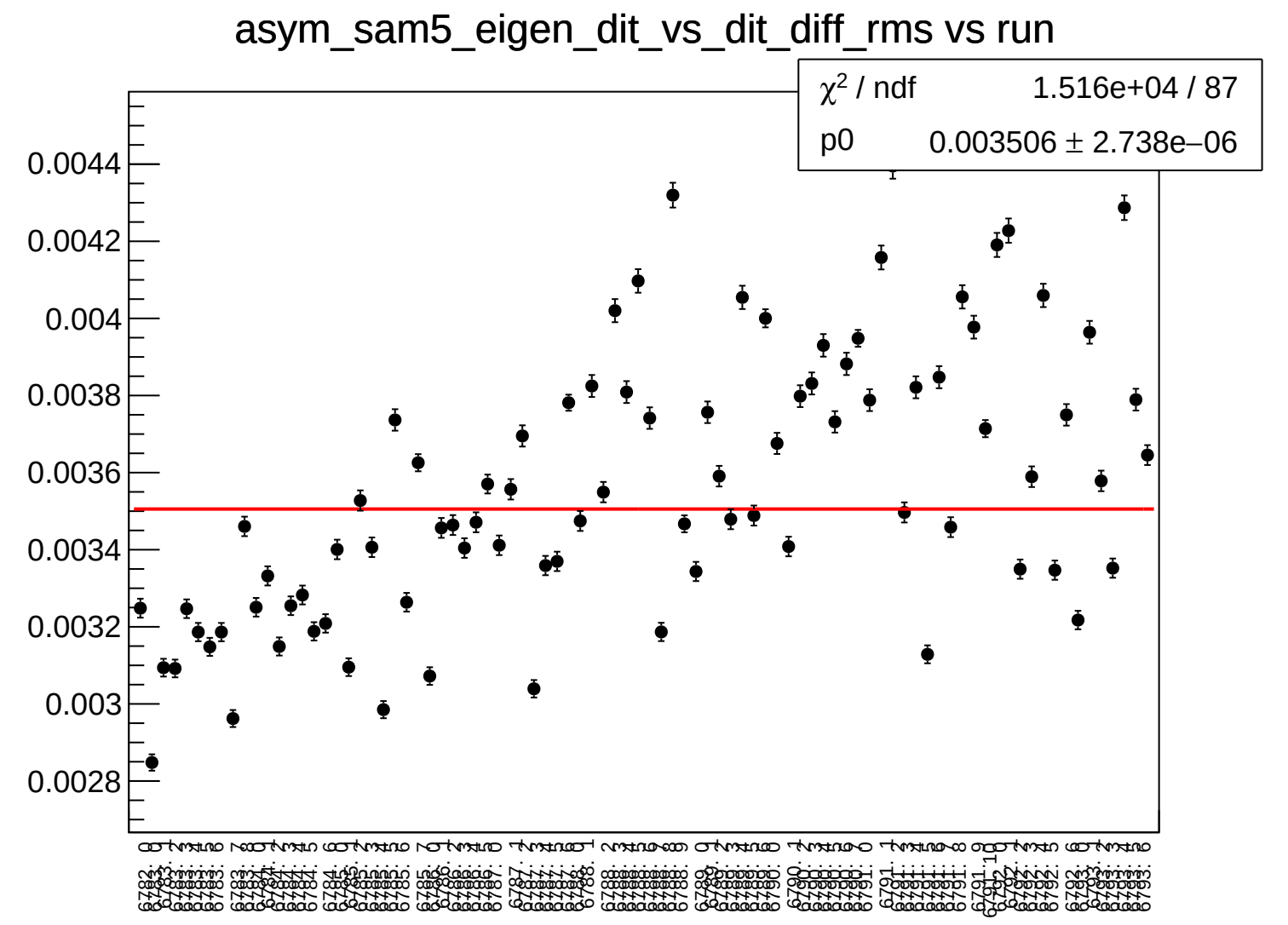

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 87
p0 −0.1779 ± 0.07918
pull
Entries 88
Mean −66.8
Std Dev 0

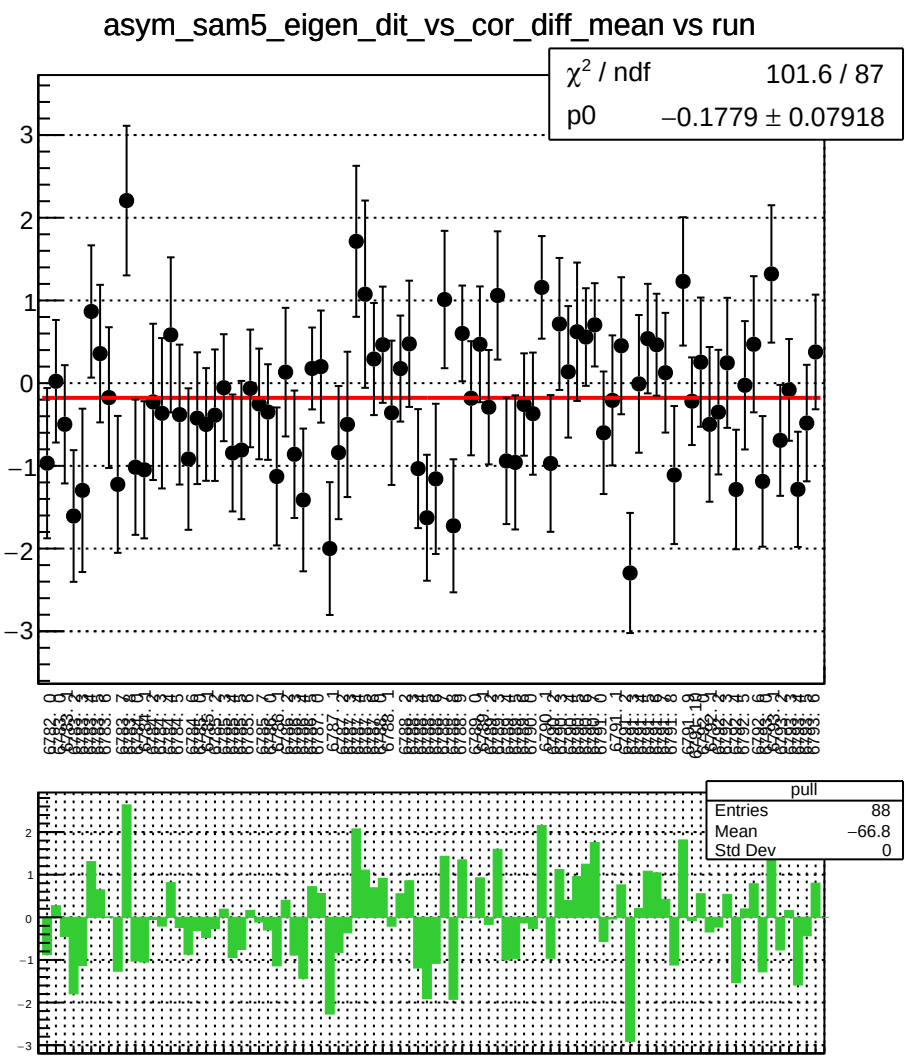

pull1D
Entries 88
Mean −0.03056
Std Dev 1.074

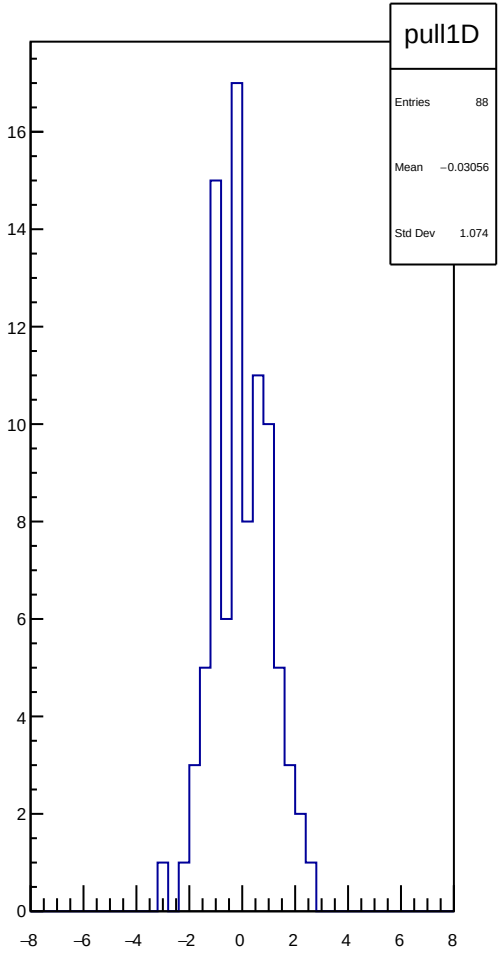

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.72e+04 / 87
p0 71.43 ± 0.05599
110
100
90
80
70
60
50

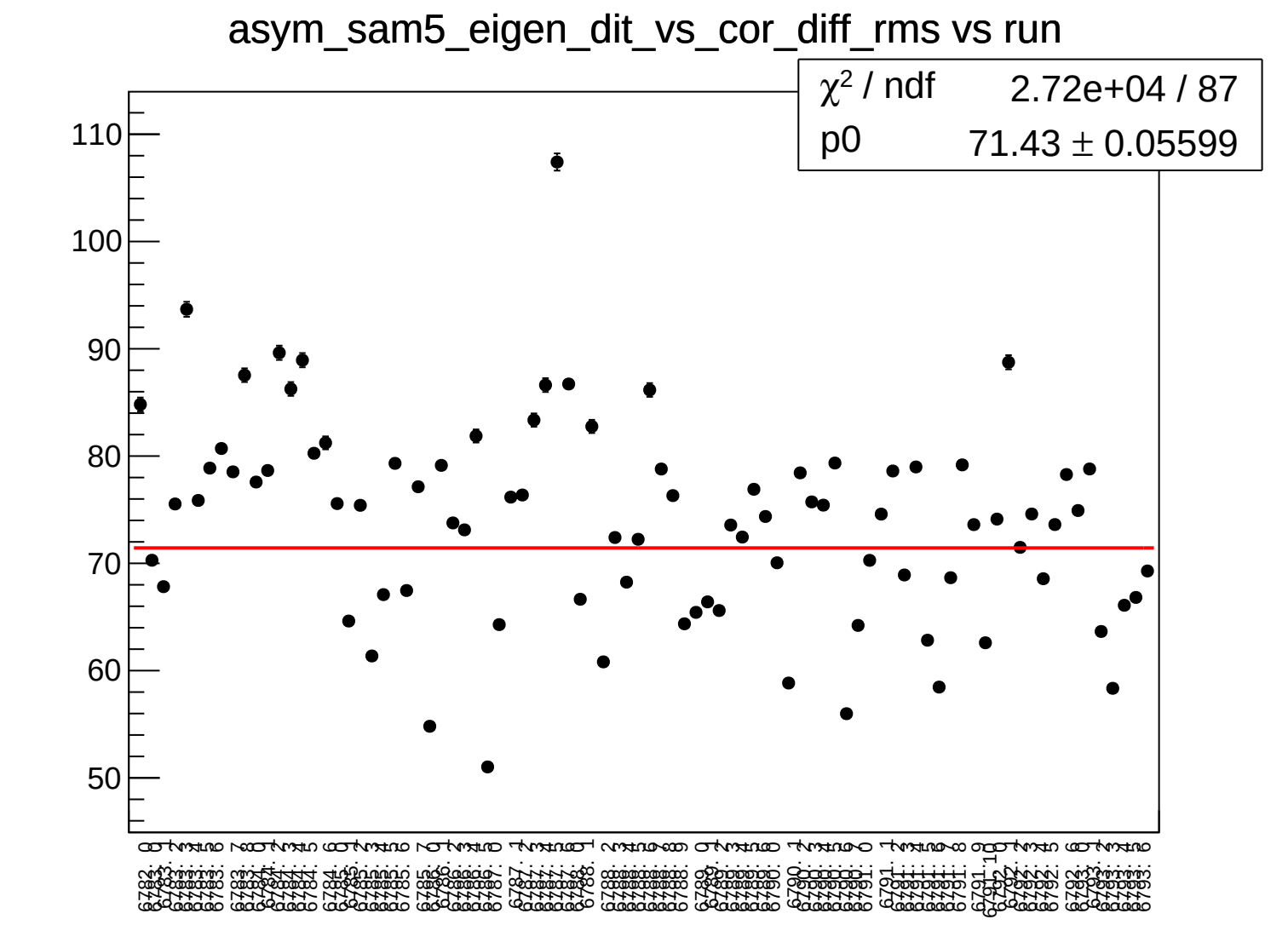

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.47 / 87
p0 −8.028e−08 ± 3.872e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −112
Std Dev 0
3
2
1
0
−1
−2

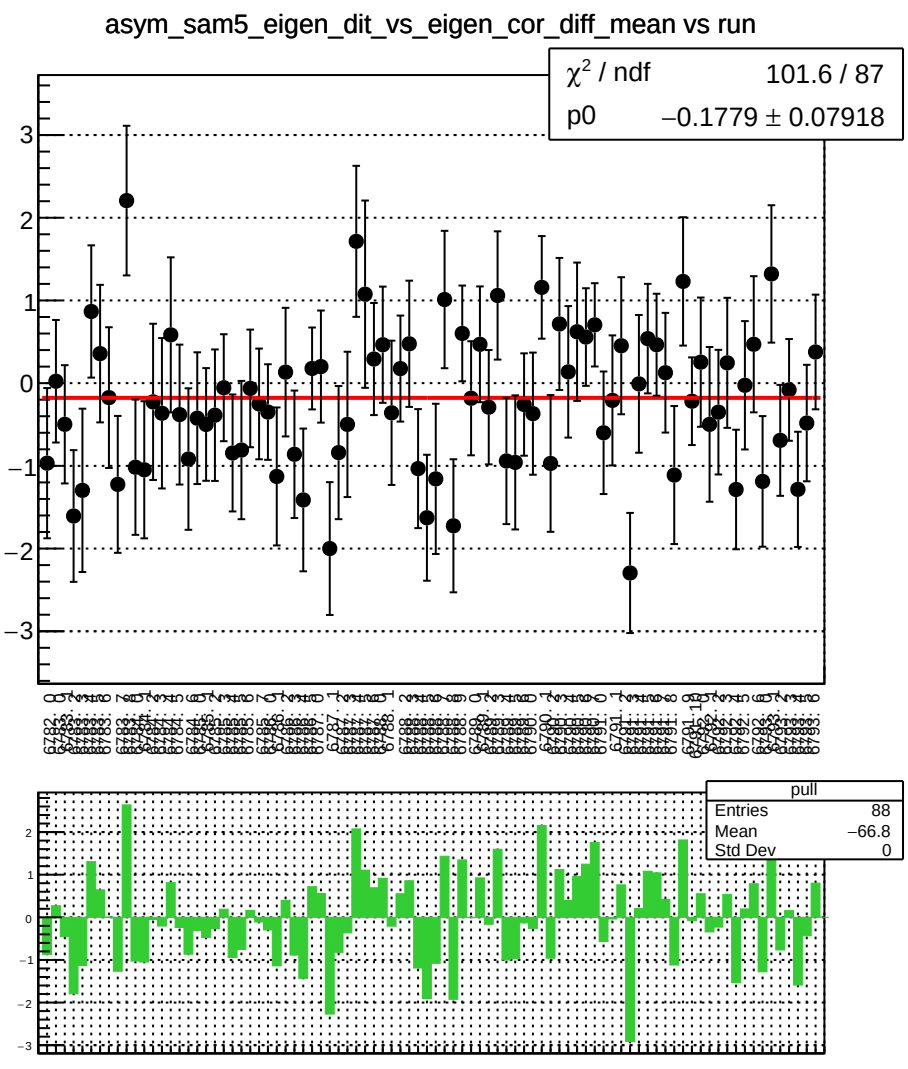

pull1D
Entries 88
Mean −0.009444
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

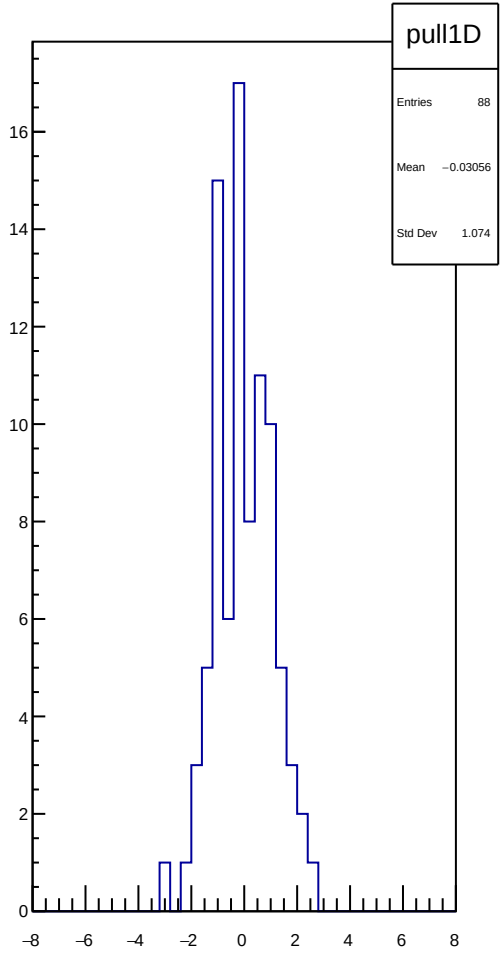

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.516e+04 / 87
p0 0.003506 ± 2.738e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

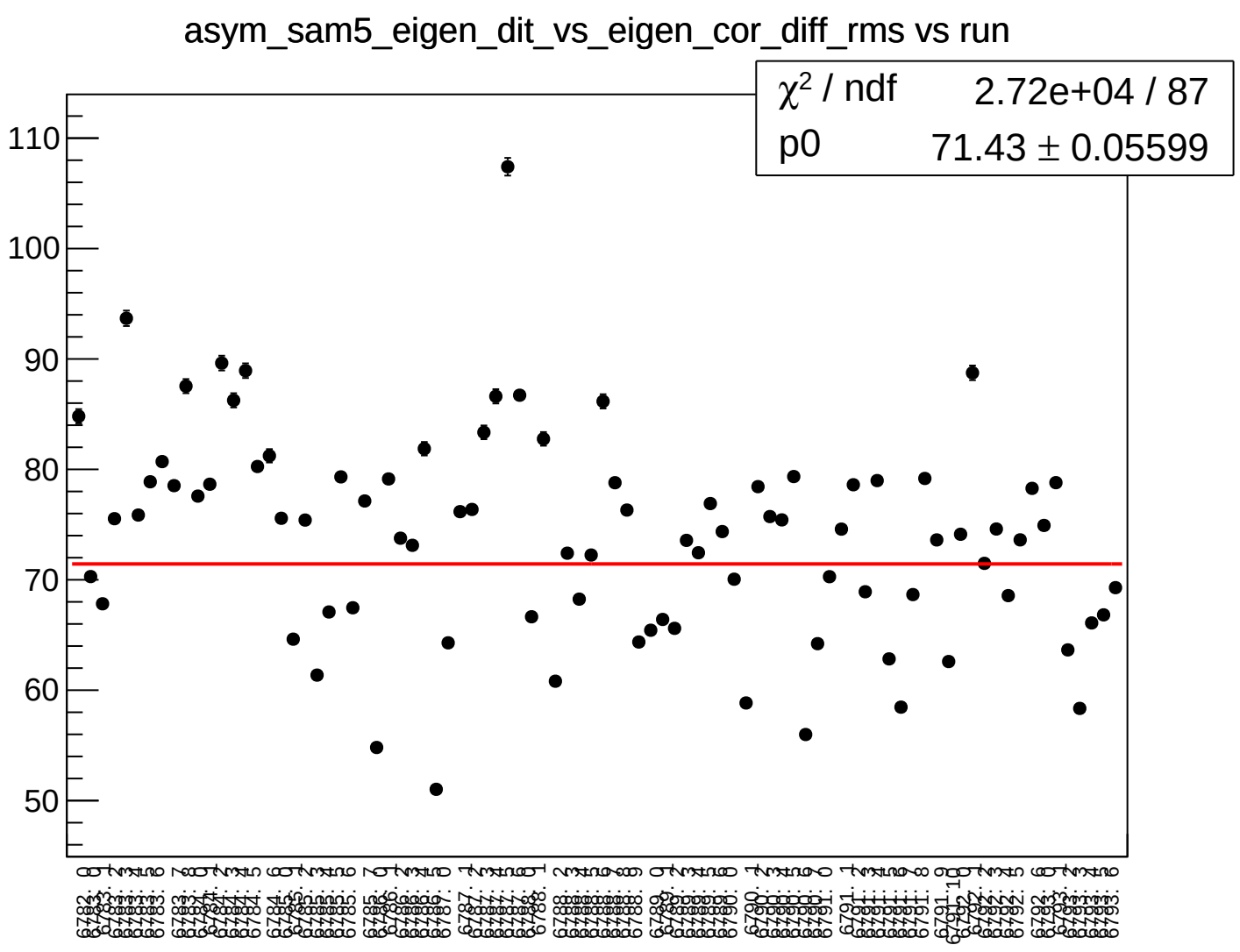

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 87
p0 −0.1779 ± 0.07918
pull
Entries 88
Mean −66.8
Std Dev 0

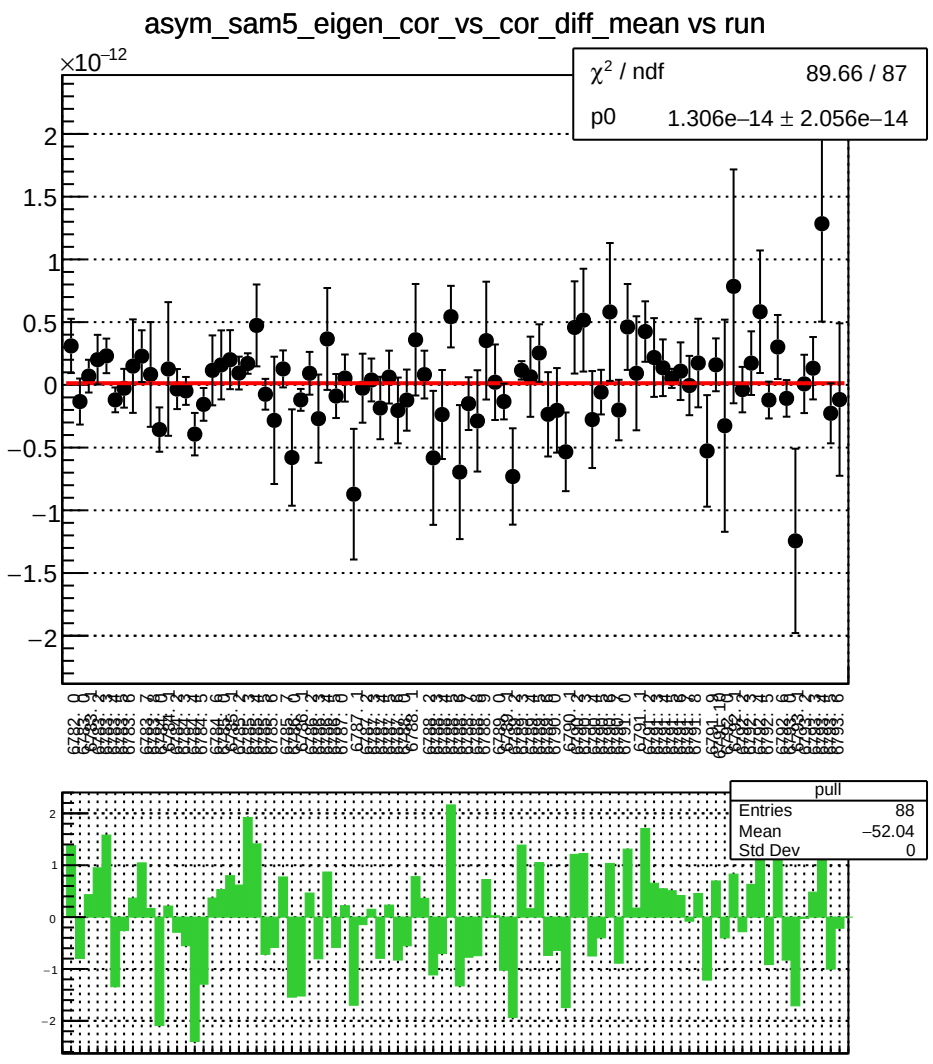

pull1D
Entries 88
Mean −0.03056
Std Dev 1.074

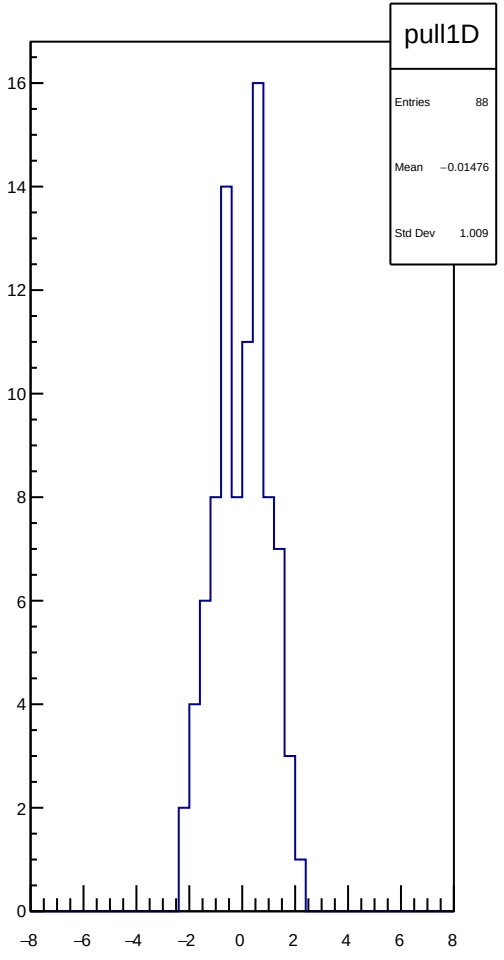

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.72e+04 / 87
p0 71.43 ± 0.05599
110
100
90
80
70
60
50

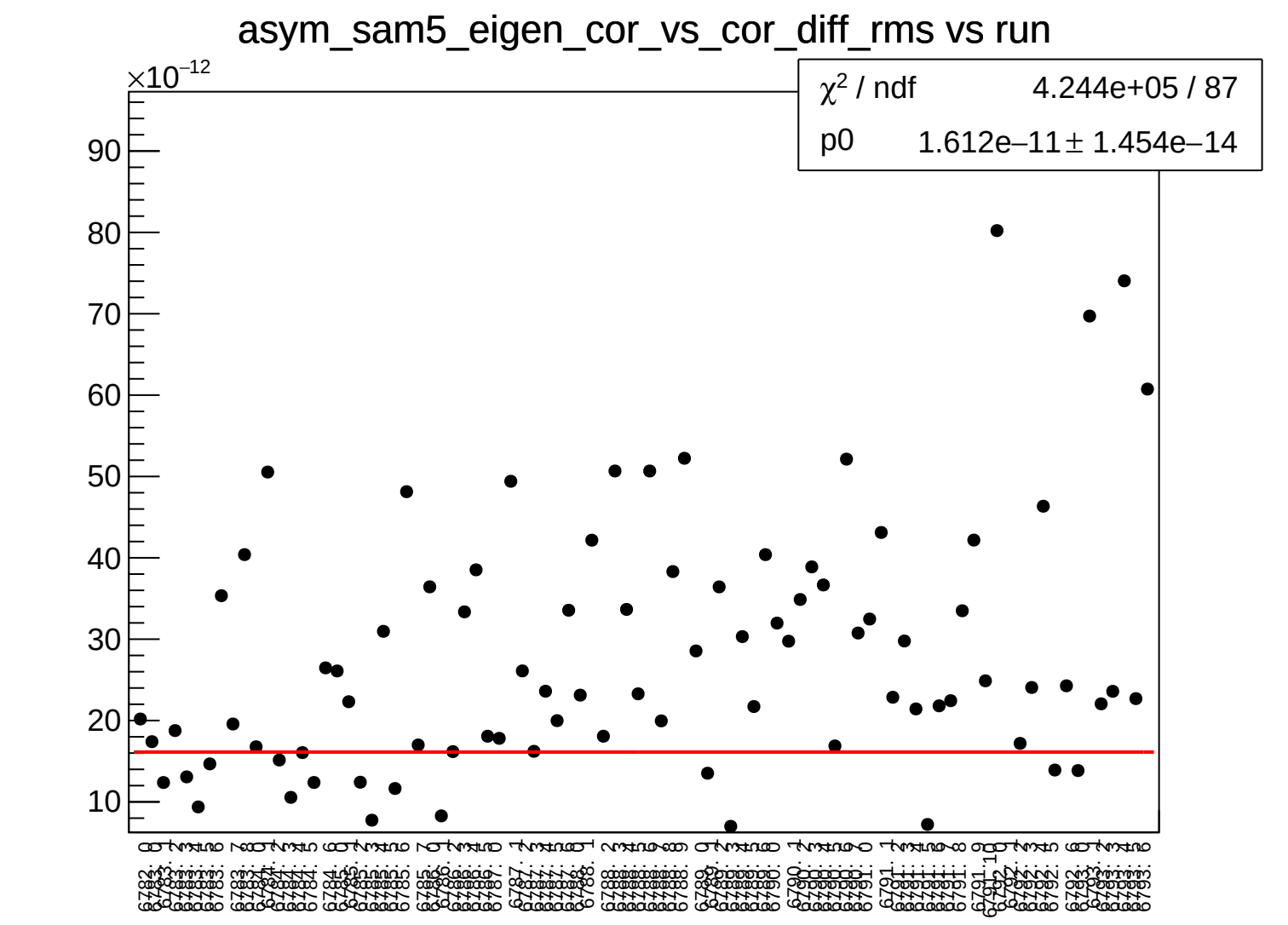

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 87
p0 −0.1779 ± 0.07918
pull
Entries 88
Mean −66.8
Std Dev 0

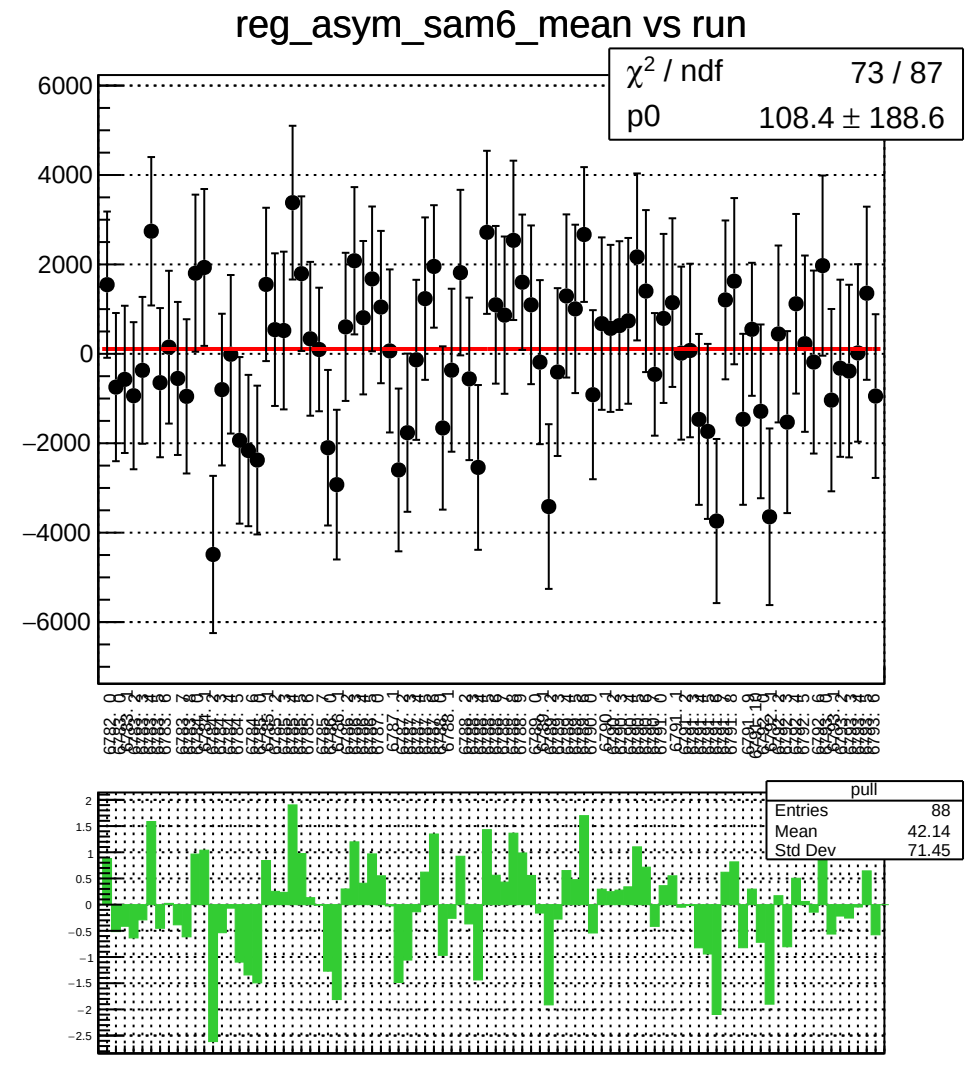

pull1D
Entries 88
Mean −0.03056
Std Dev 1.074

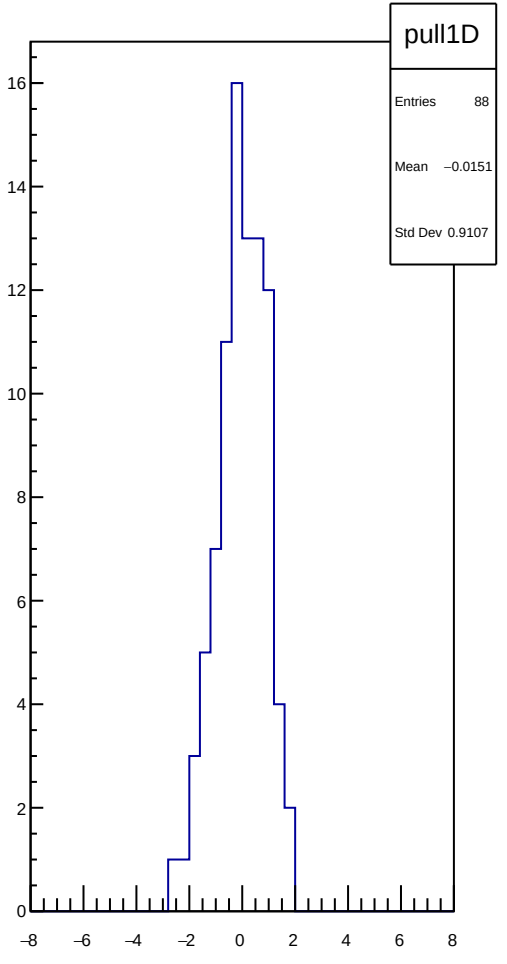

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.72e+04 / 87
p0 71.43 ± 0.05599
110
100
90
80
70
60
50

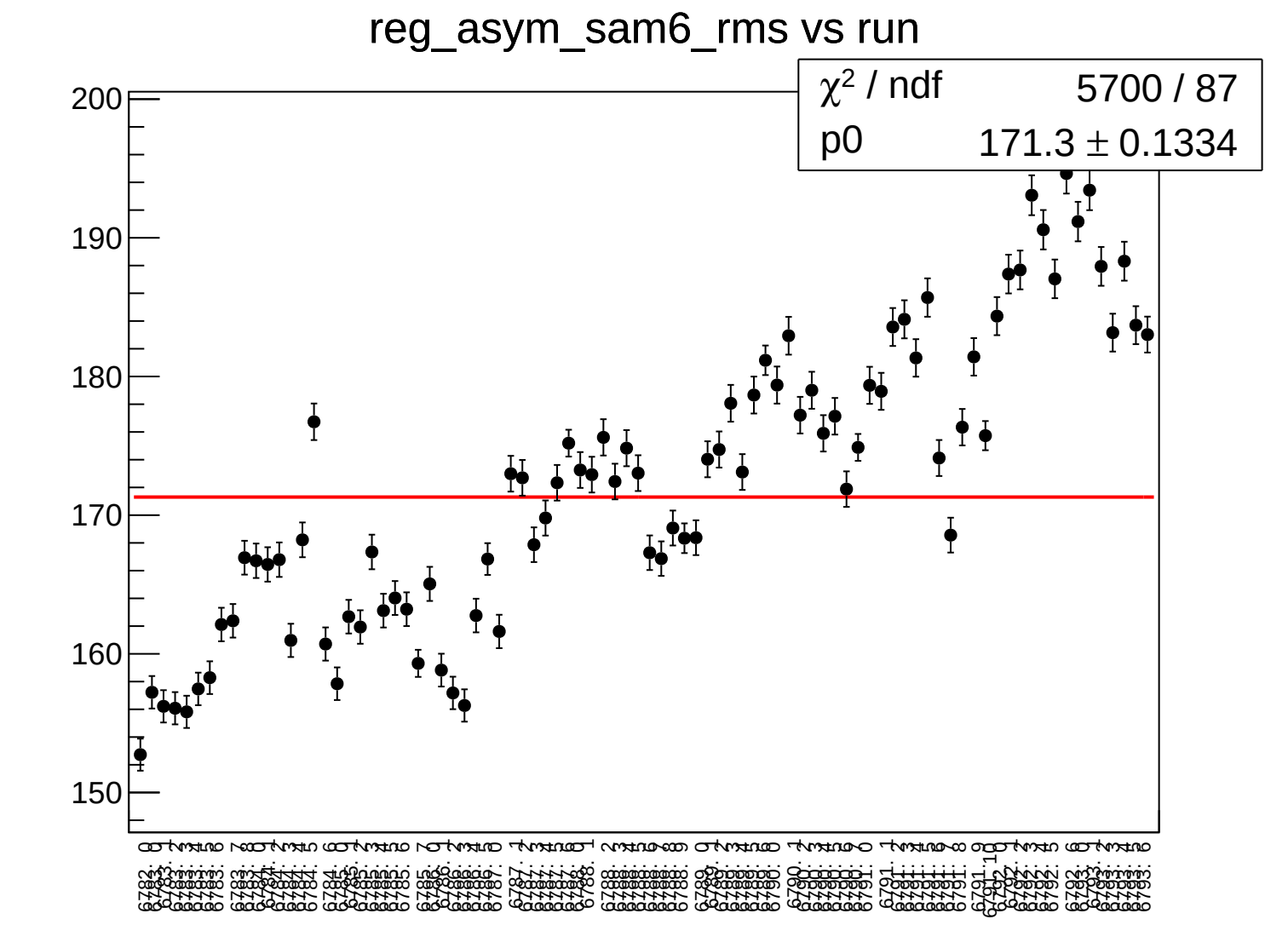

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.66 / 87
p0 1.306e−14 ± 2.056e−14
pull
Entries 88
Mean −52.04
Std Dev 0

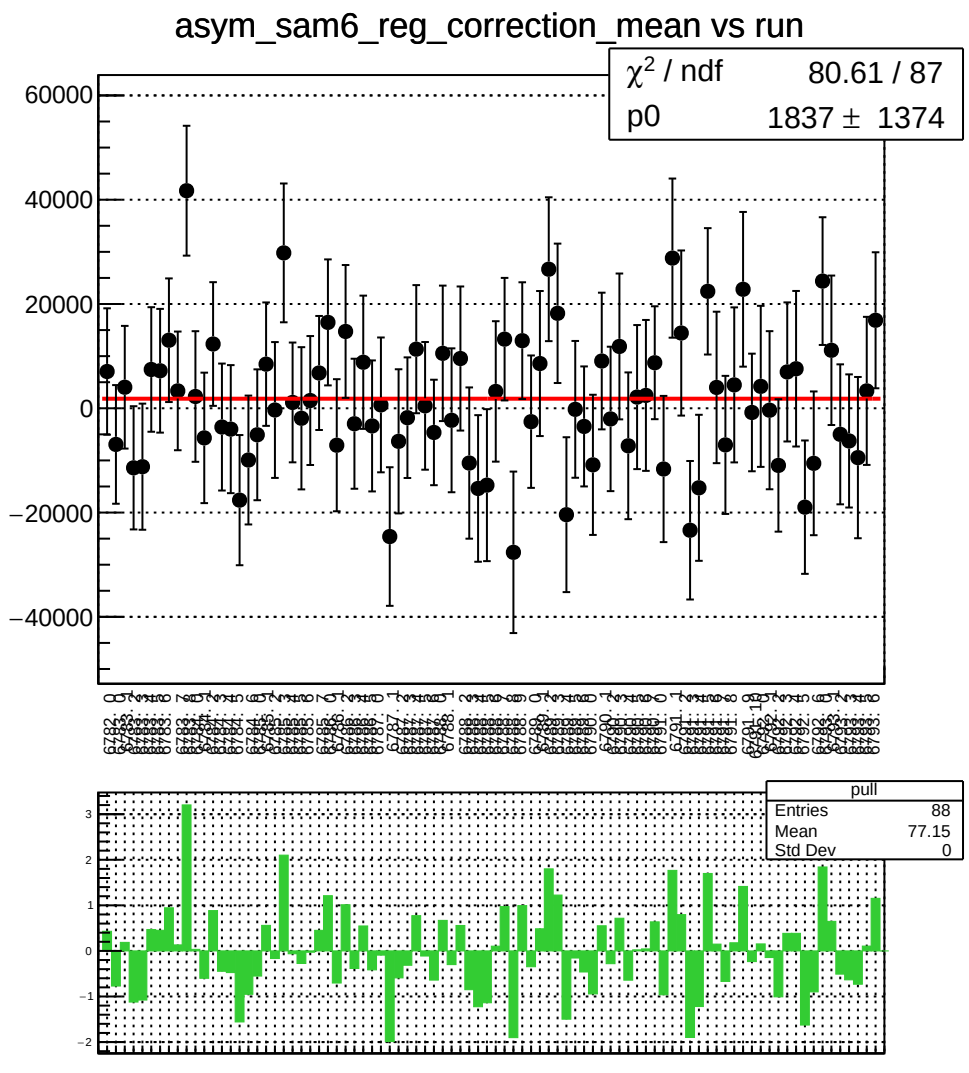

pull1D
Entries 88
Mean −0.01476
Std Dev 1.009

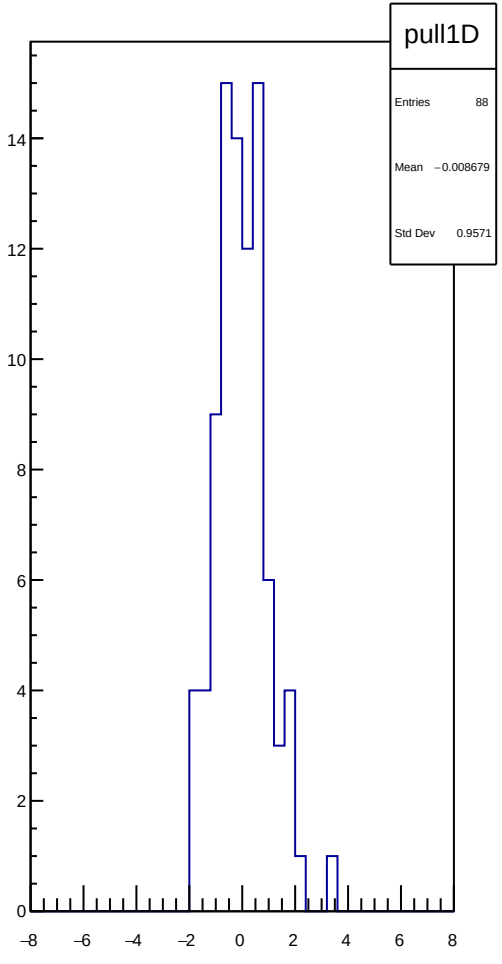

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.244e+05 / 87
p0 1.612e−11 ± 1.454e−14
90
80
70
60
50
40
30
20
10

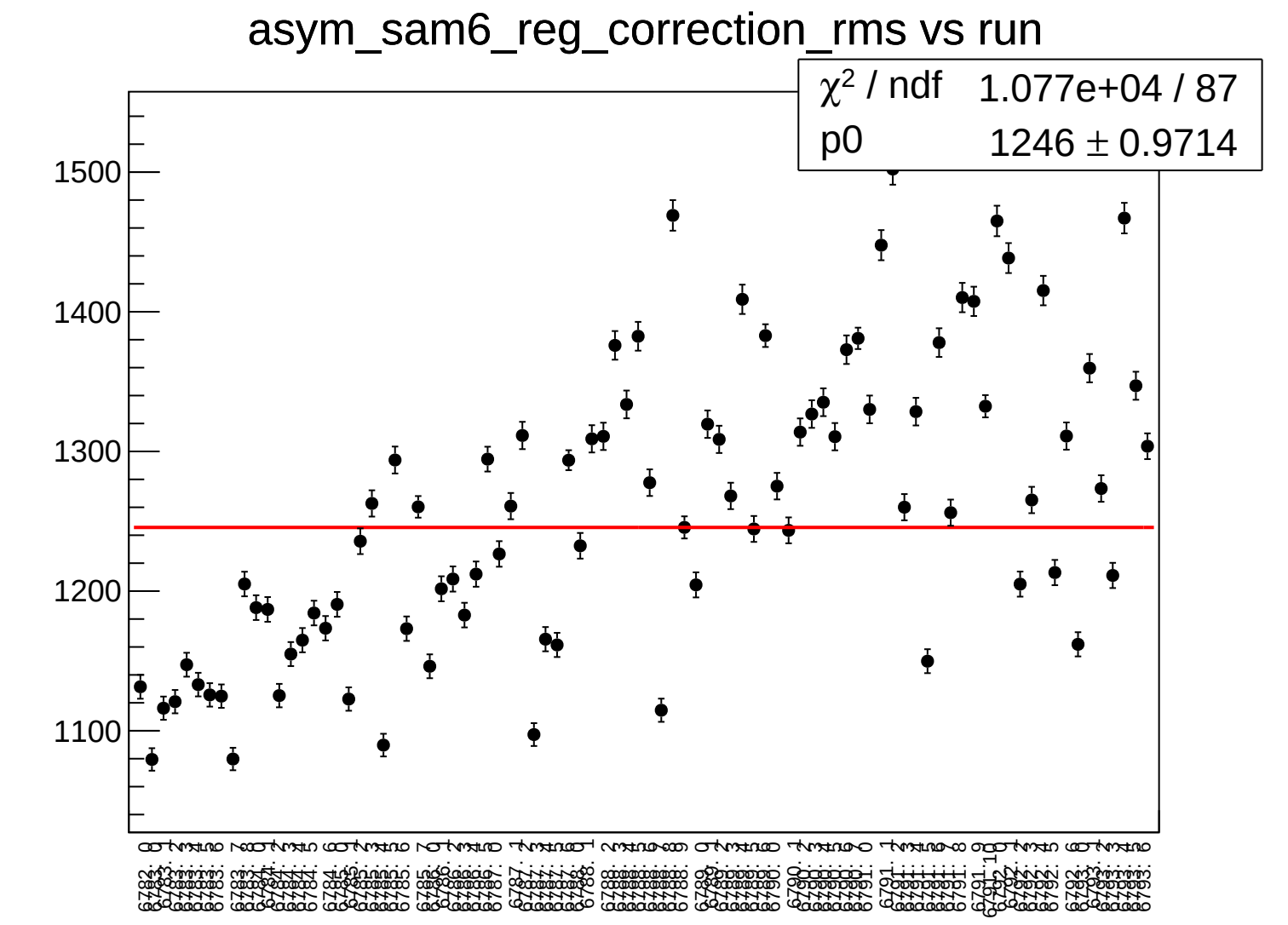

reg_asym_sam6_mean vs run
χ^2 / ndf 73 / 87
p0 108.4 ± 188.6
pull
Entries 88
Mean 42.14
Std Dev 71.45

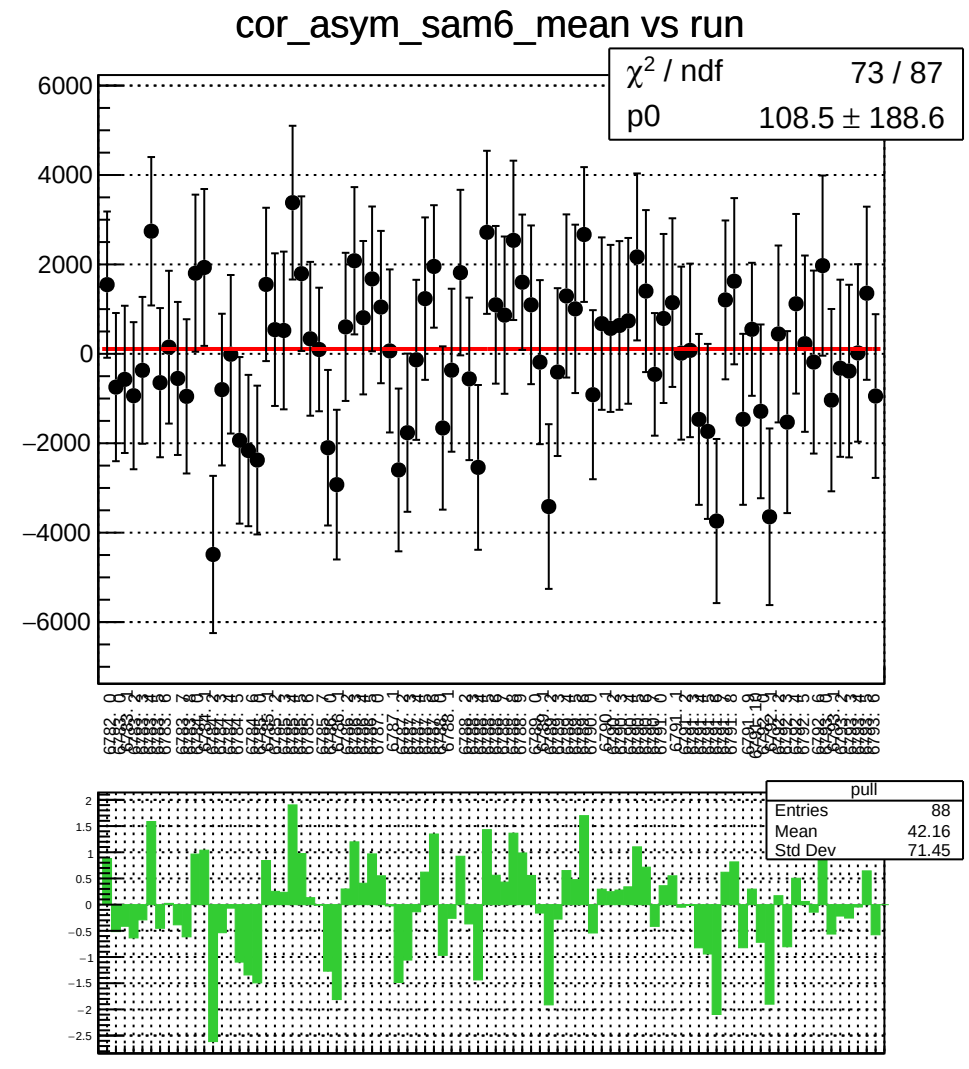

pull1D
Entries 88
Mean −0.0151
Std Dev 0.9107

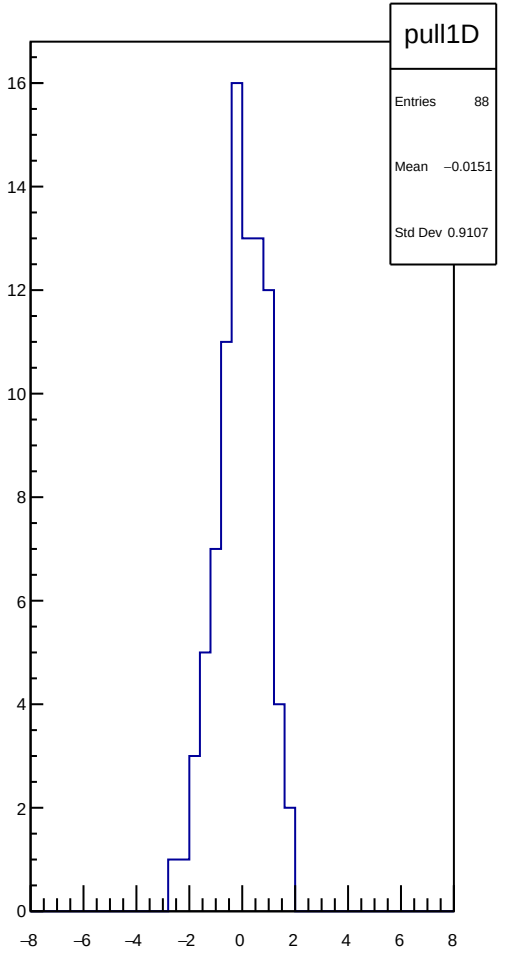

reg_asym_sam6_rms vs run
χ² / ndf 5700 / 87
p0 171.3 ± 0.1334
200
190
180
170
160
150

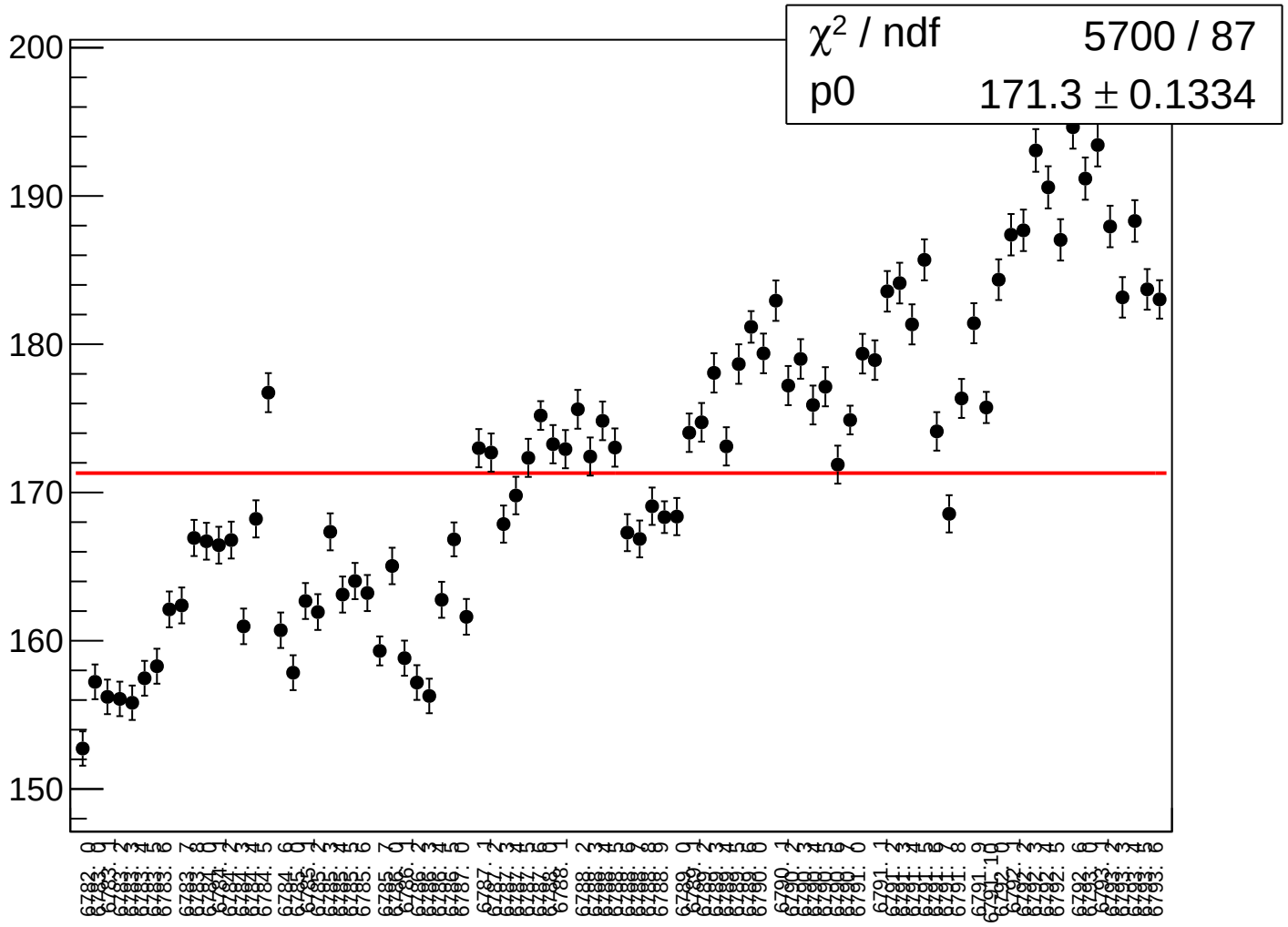

asym_sam6_reg_correction_mean vs run
χ² / ndf 80.61 / 87
p0 1837 ± 1374
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 77.15
Std Dev 0
3
2
1
0
−1
−2

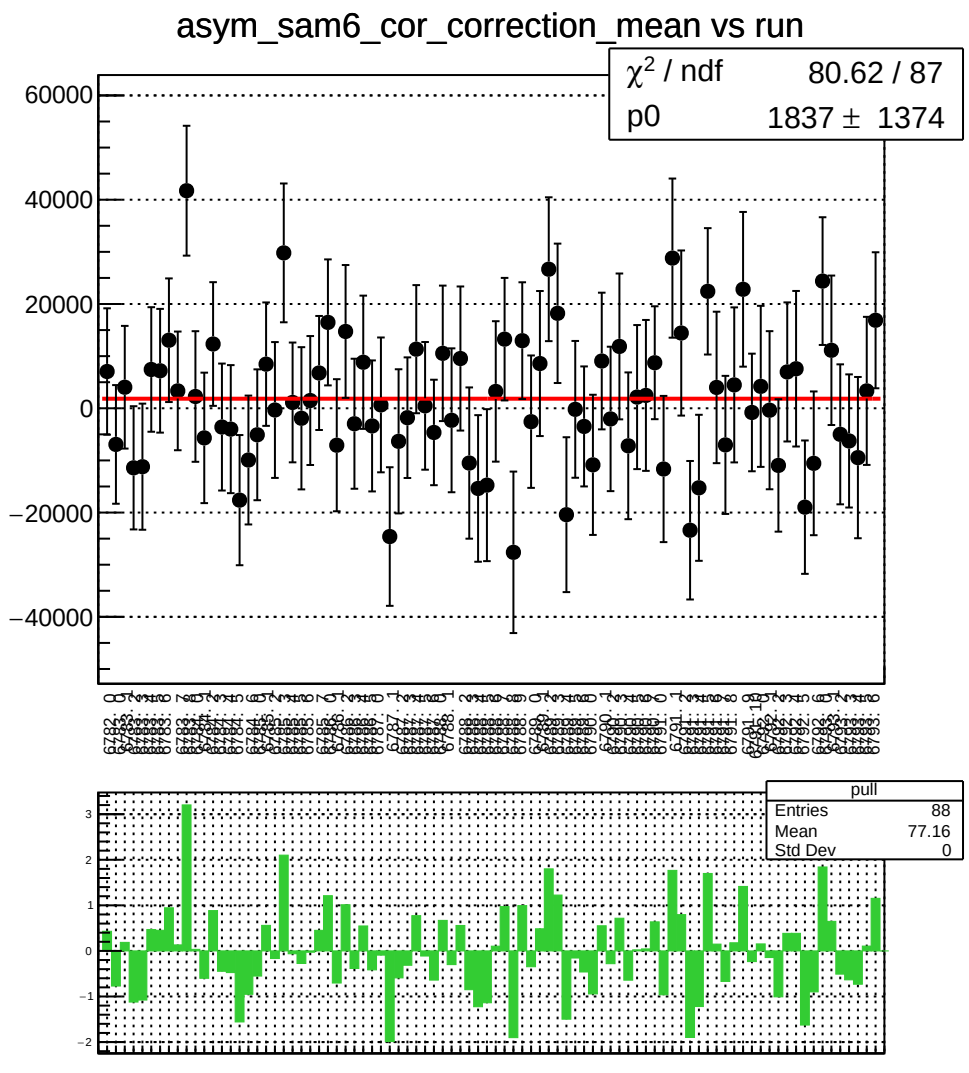

pull1D
Entries 88
Mean −0.008679
Std Dev 0.9571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

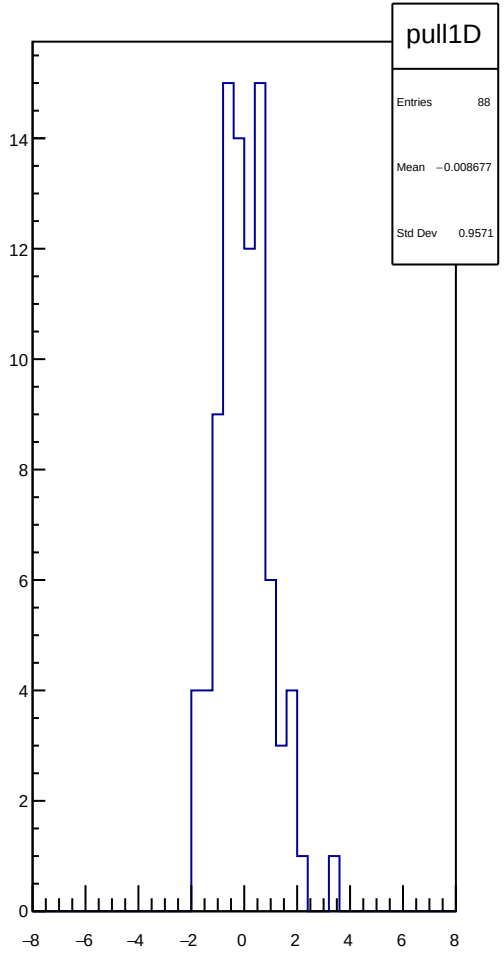

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.077e+04 / 87
p0 1246 ± 0.9714
1500
1400
1300
1200
1100


cor_asym_sam6_mean vs run
χ² / ndf 73 / 87
p0 108.5 ± 188.6
pull
Entries 88
Mean 42.16
Std Dev 71.45

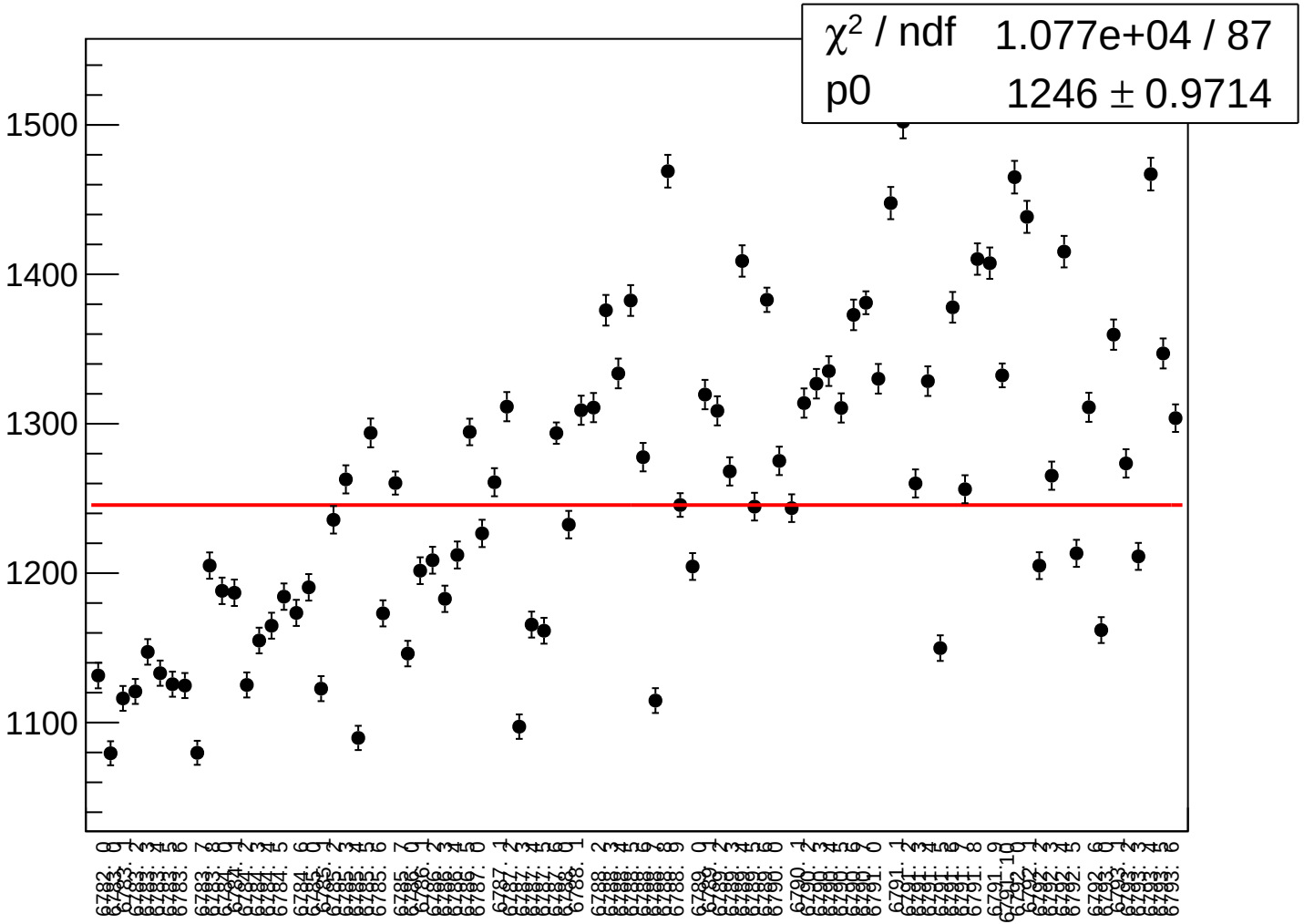

pull1D
Entries 88
Mean −0.0151
Std Dev 0.9107

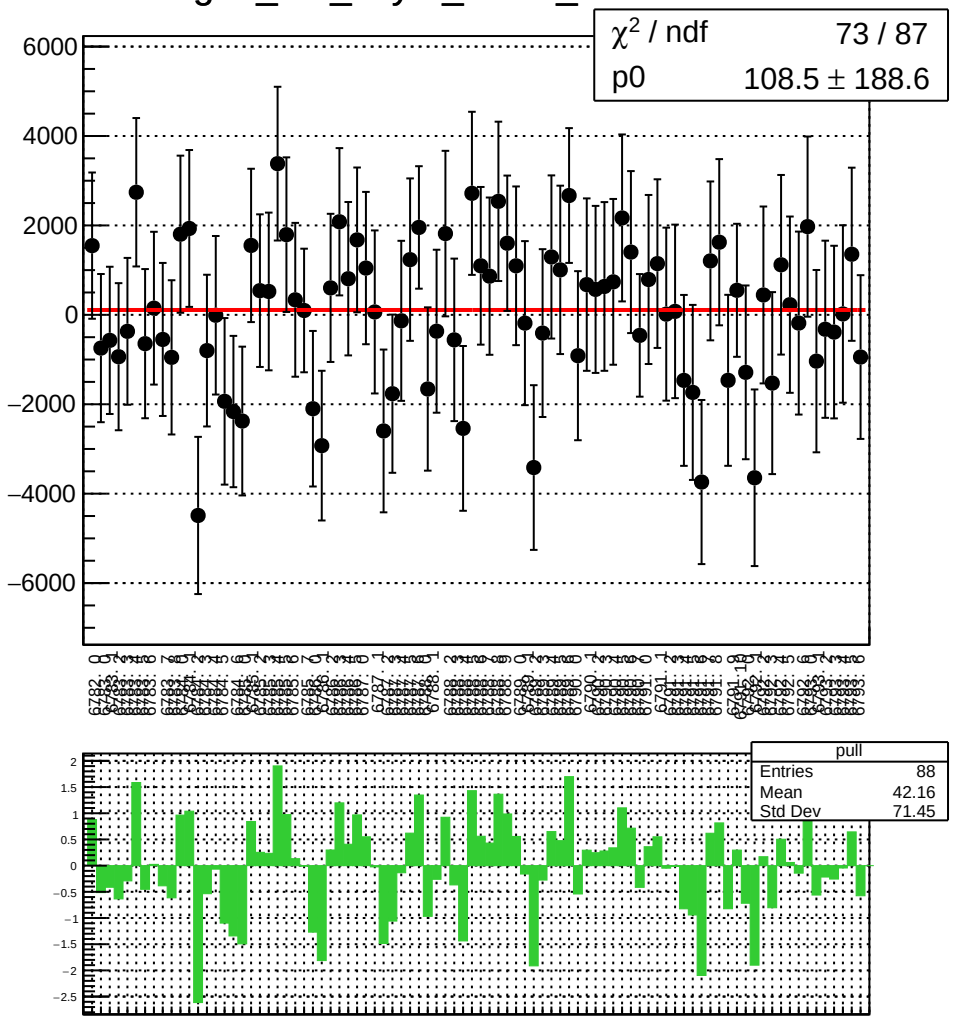

cor_asym_sam6_rms vs run
χ² / ndf 5700 / 87
p0 171.3 ± 0.1334
200
190
180
170
160
150

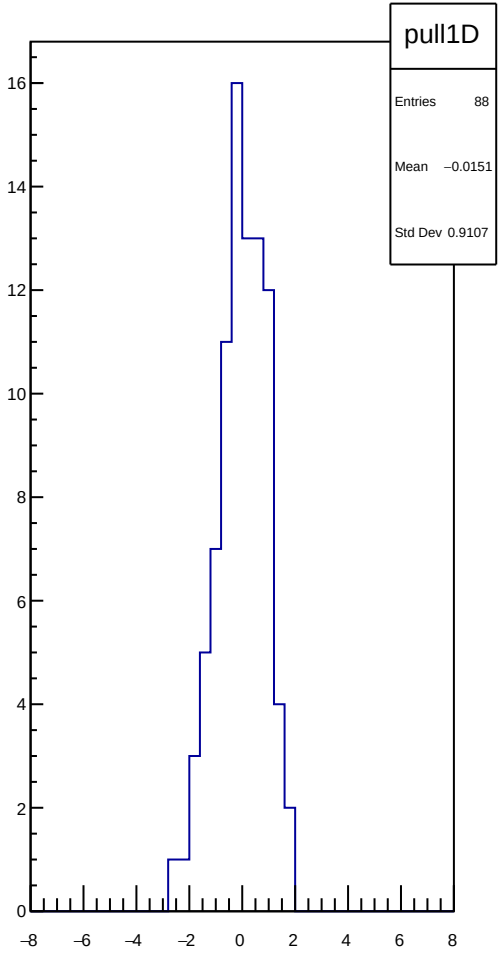

asym_sam6_cor_correction_mean vs run
χ² / ndf 80.62 / 87
p0 1837 ± 1374
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 77.16
Std Dev 0
3
2
1
0
−1
−2

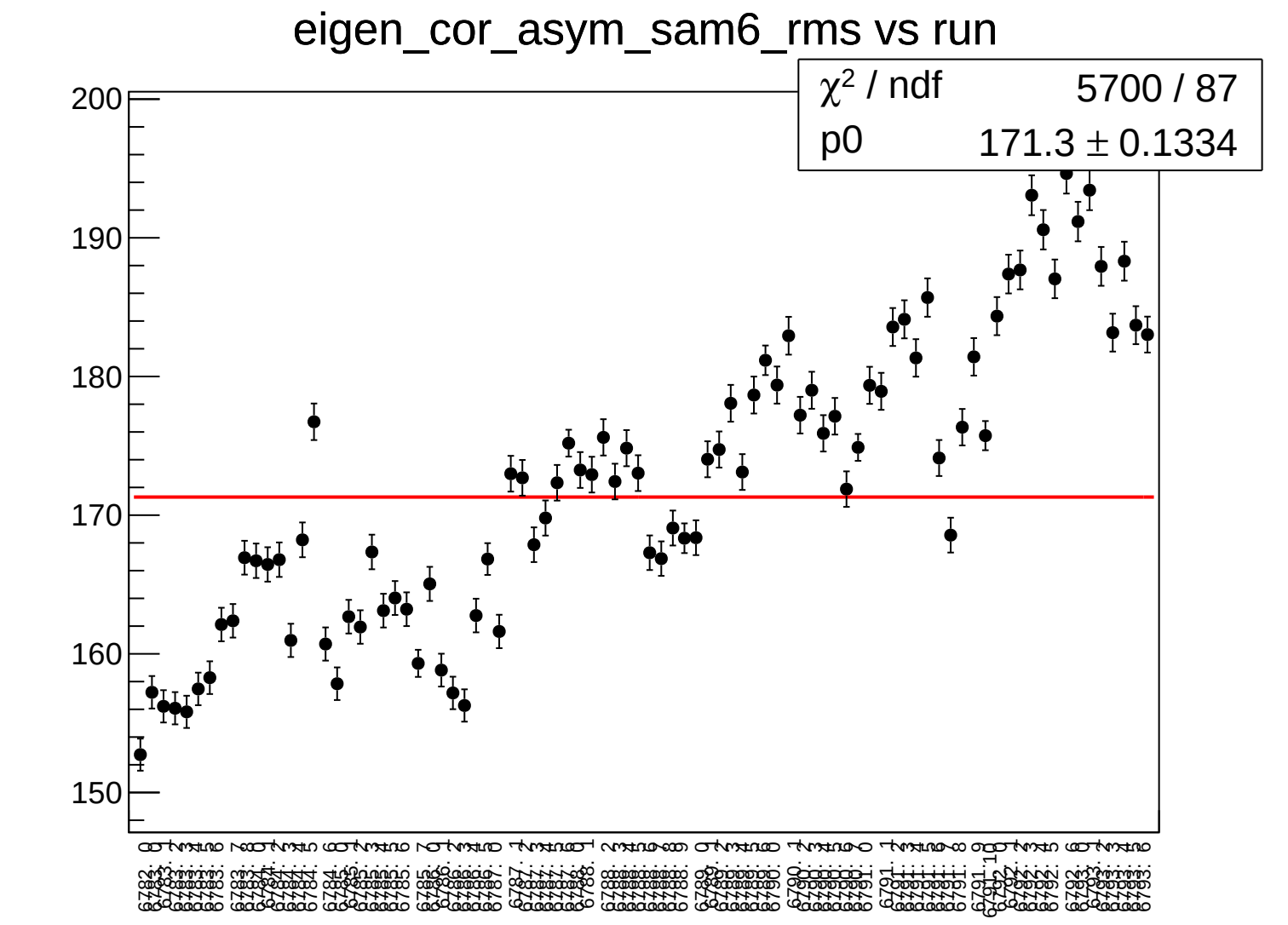

pull1D
Entries 88
Mean −0.008677
Std Dev 0.9571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

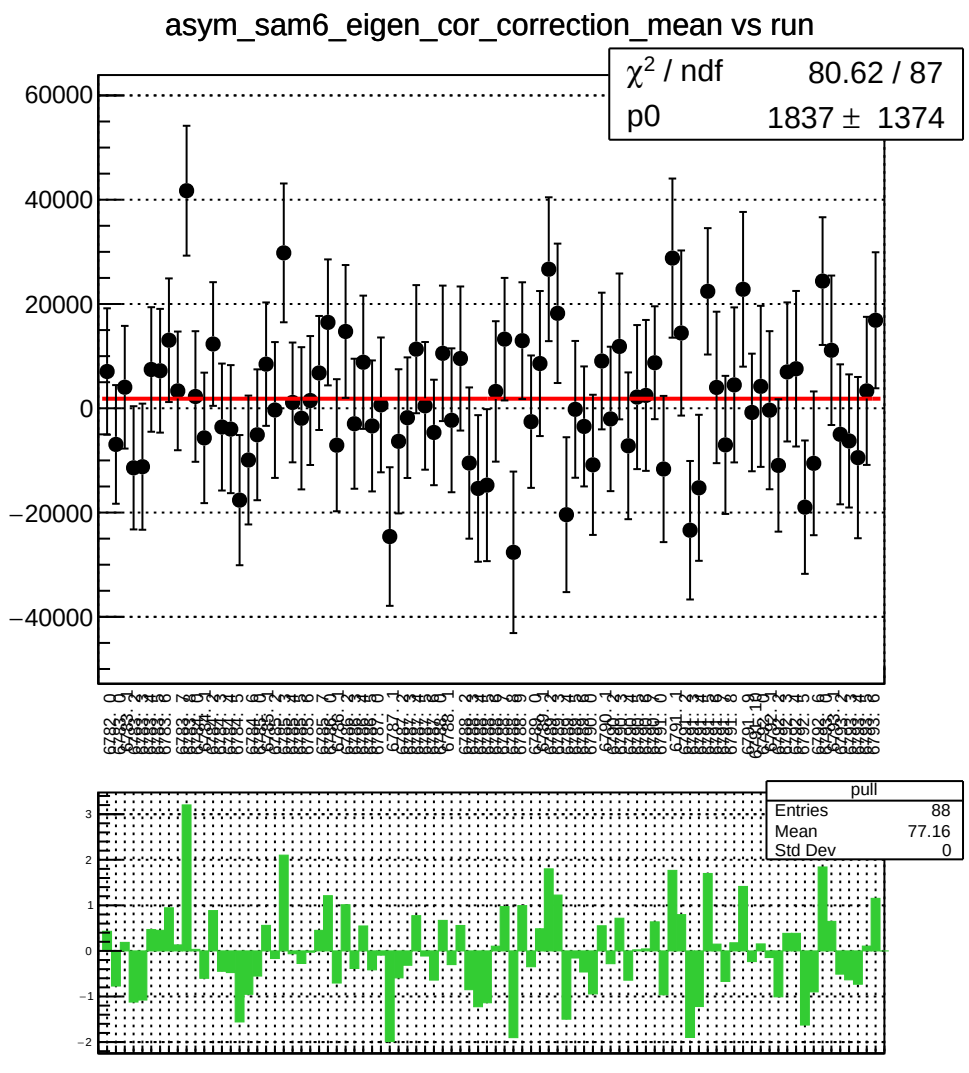
asym_sam6_cor_correction_rms vs run

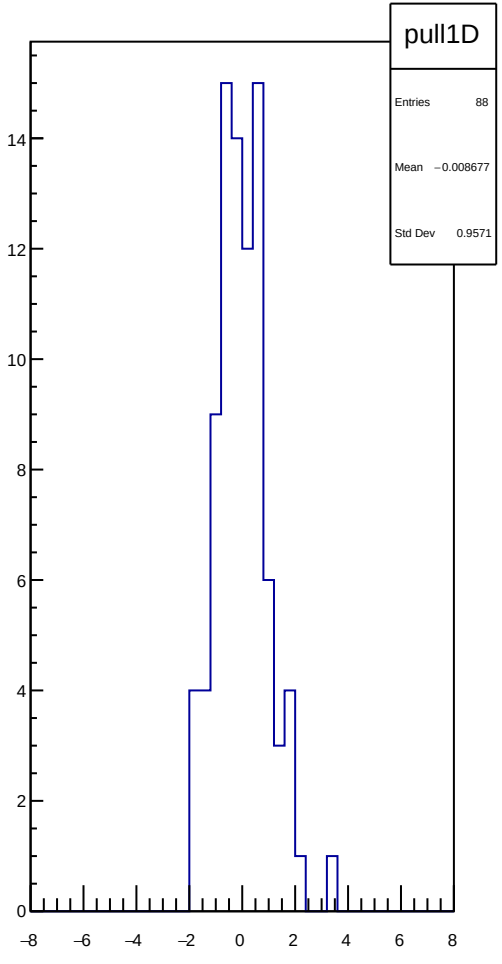


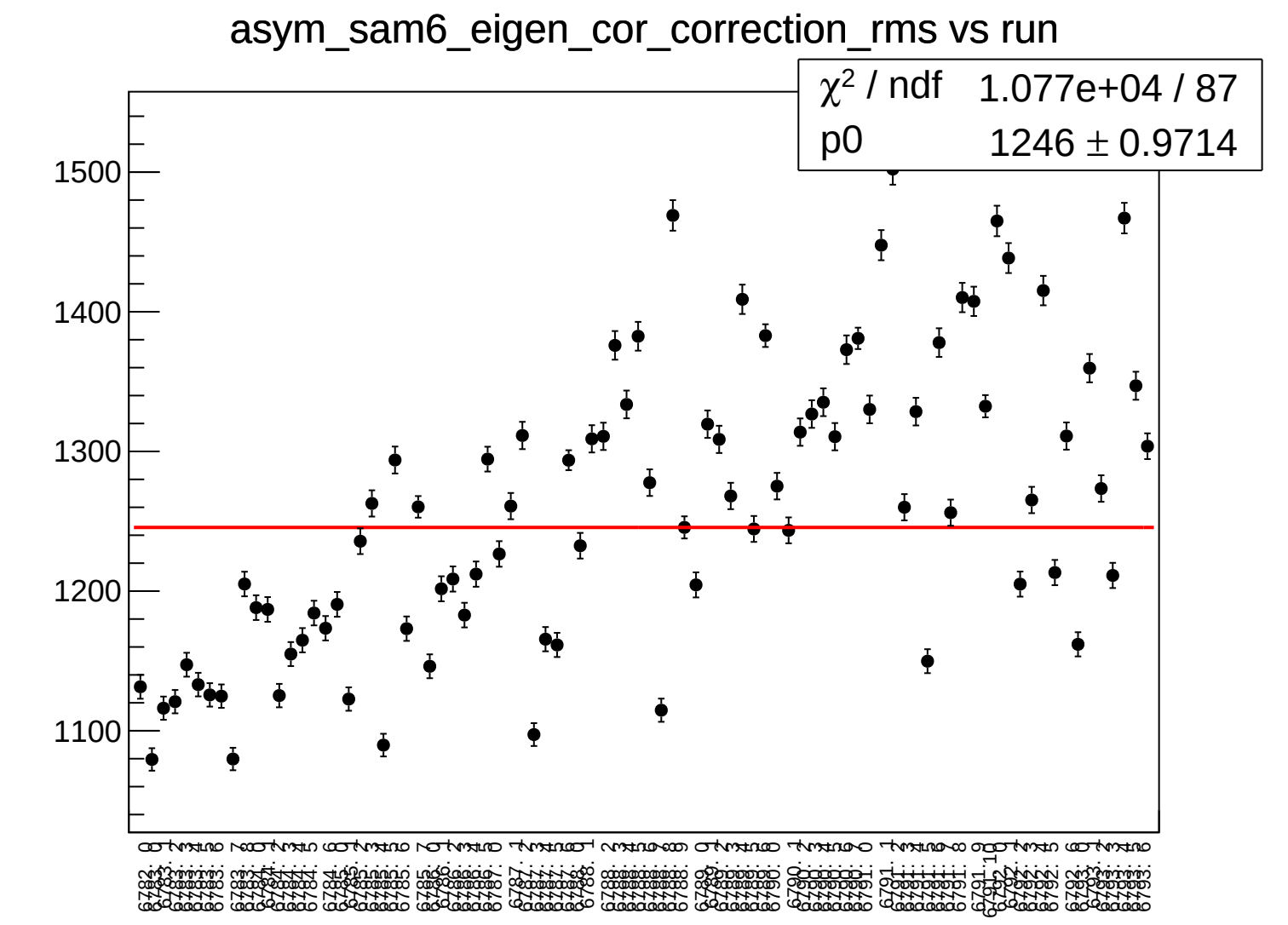

eigen_cor_asym_sam6_mean vs run
χ² / ndf 73 / 87
p0 108.5 ± 188.6
pull
Entries 88
Mean 42.16
Std Dev 71.45

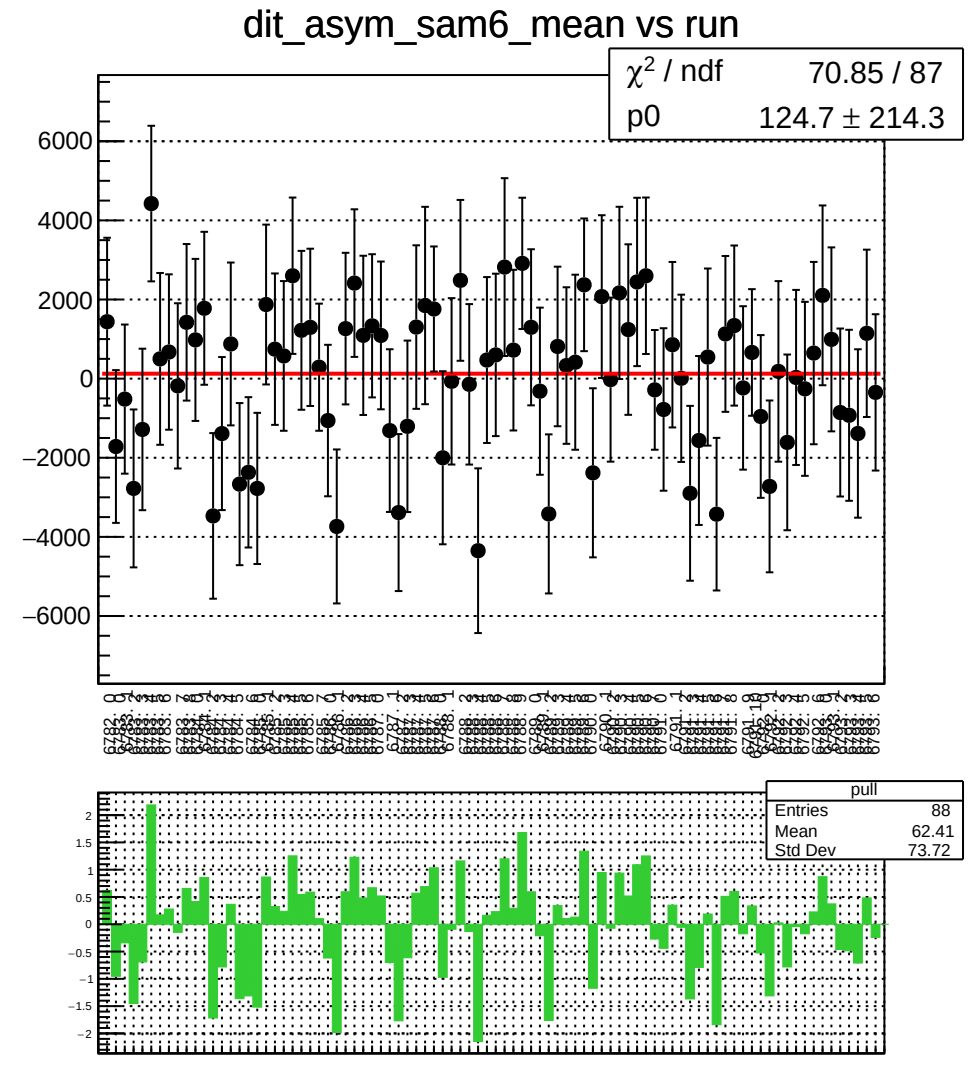

pull1D
Entries 88
Mean −0.0151
Std Dev 0.9107

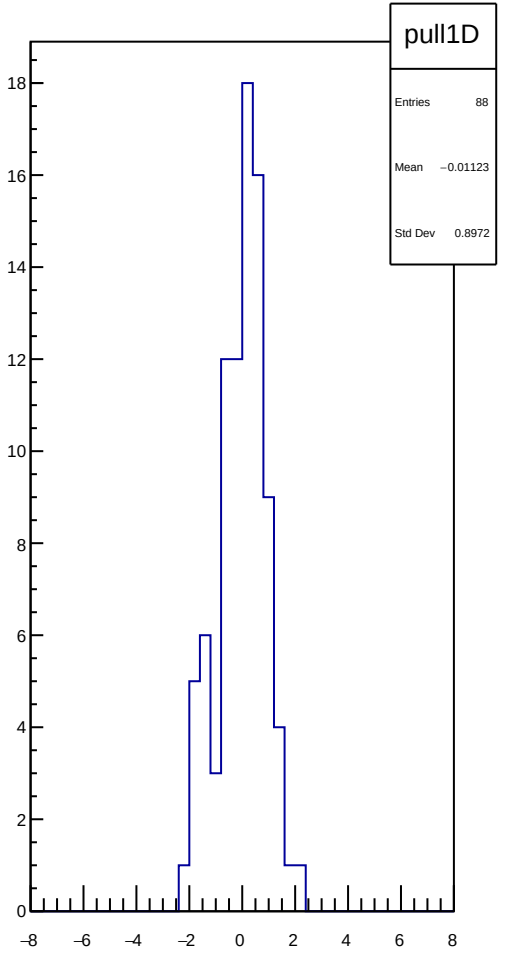

eigen_cor_asym_sam6_rms vs run
χ² / ndf 5700 / 87
p0 171.3 ± 0.1334
200
190
180
170
160
150

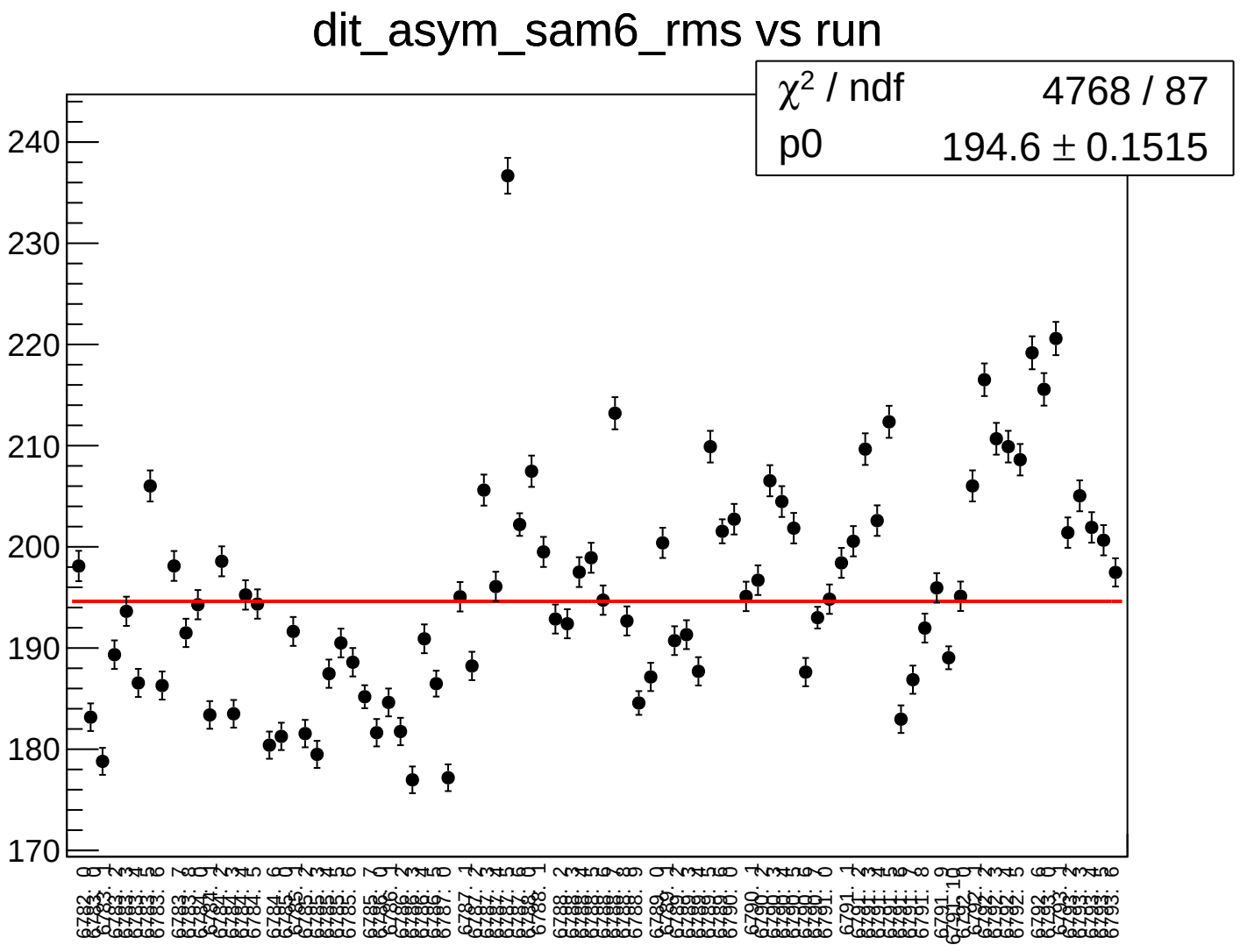

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 80.62 / 87
p0 1837 ± 1374
pull
Entries 88
Mean 77.16
Std Dev 0

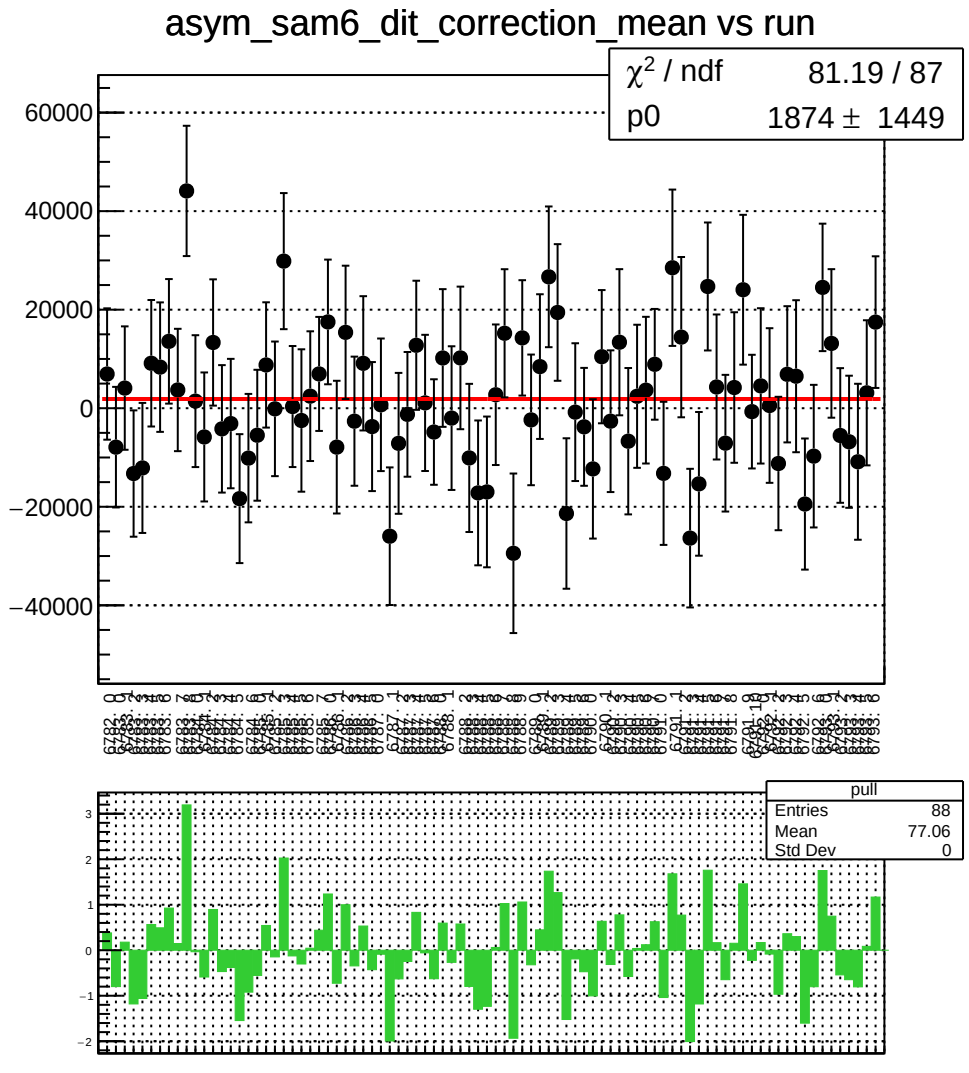

pull1D
Entries 88
Mean −0.008677
Std Dev 0.9571

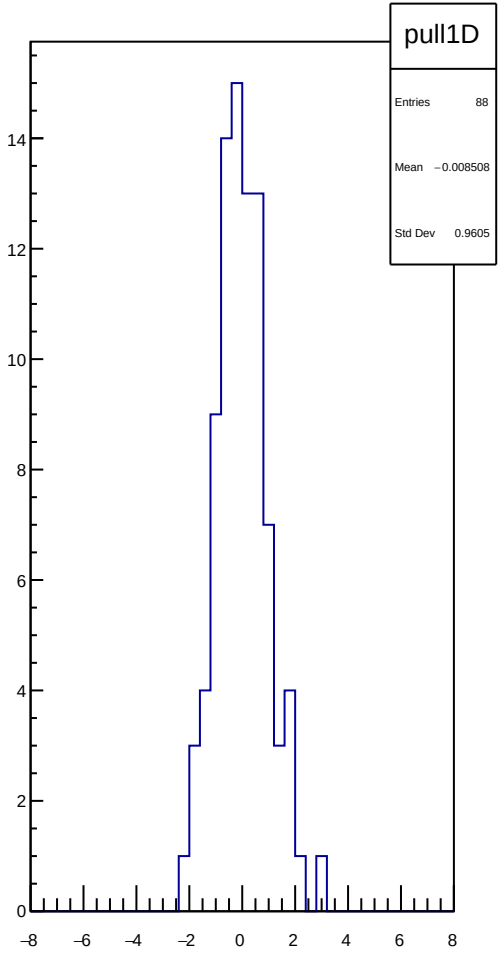

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 87
p0 1246 ± 0.9714
1500
1400
1300
1200
1100

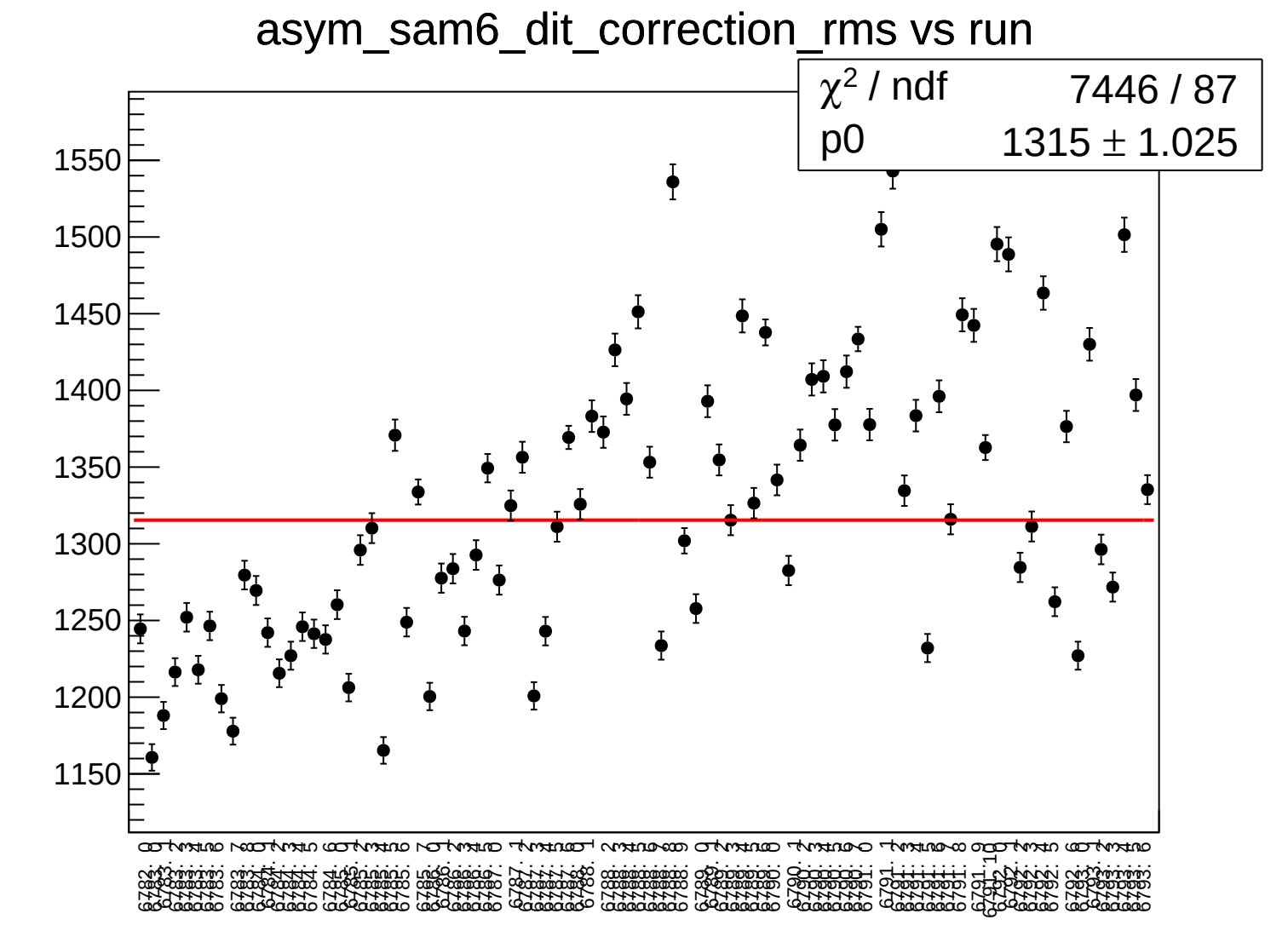

dit_asym_sam6_mean vs run
χ^2 / ndf 70.85 / 87
p0 124.7 ± 214.3
pull
Entries 88
Mean 62.41
Std Dev 73.72

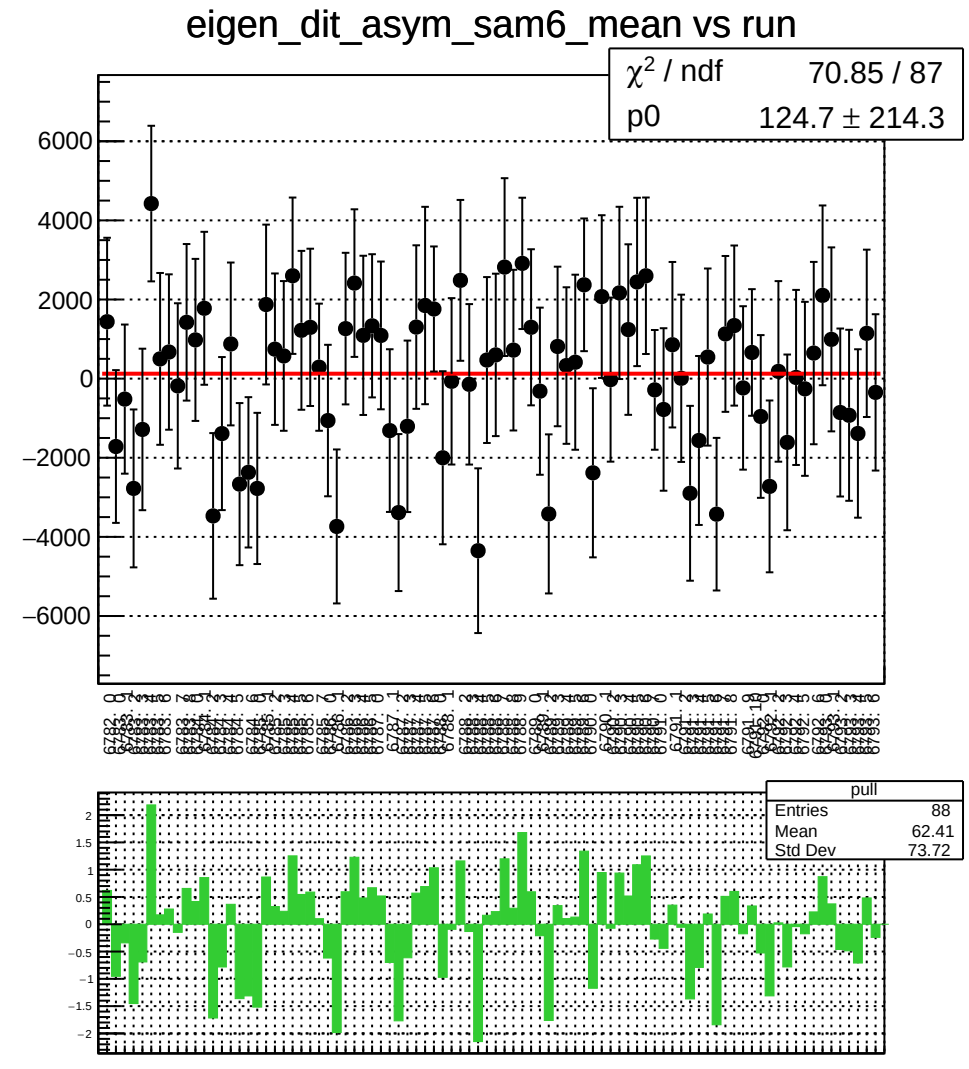

pull1D
Entries 88
Mean −0.01123
Std Dev 0.8972

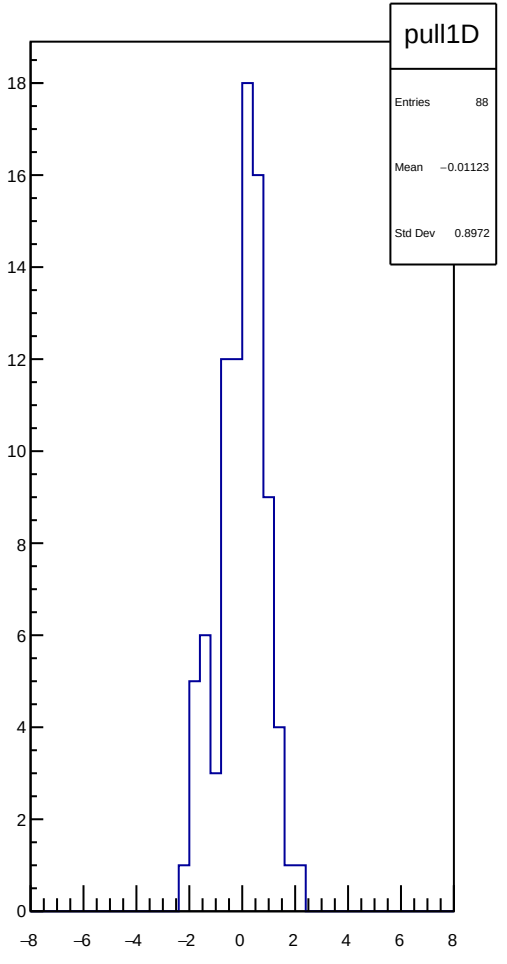

dit_asym_sam6_rms vs run
χ² / ndf 4768 / 87
p0 194.6 ± 0.1515
240
230
220
210
200
190
180
170

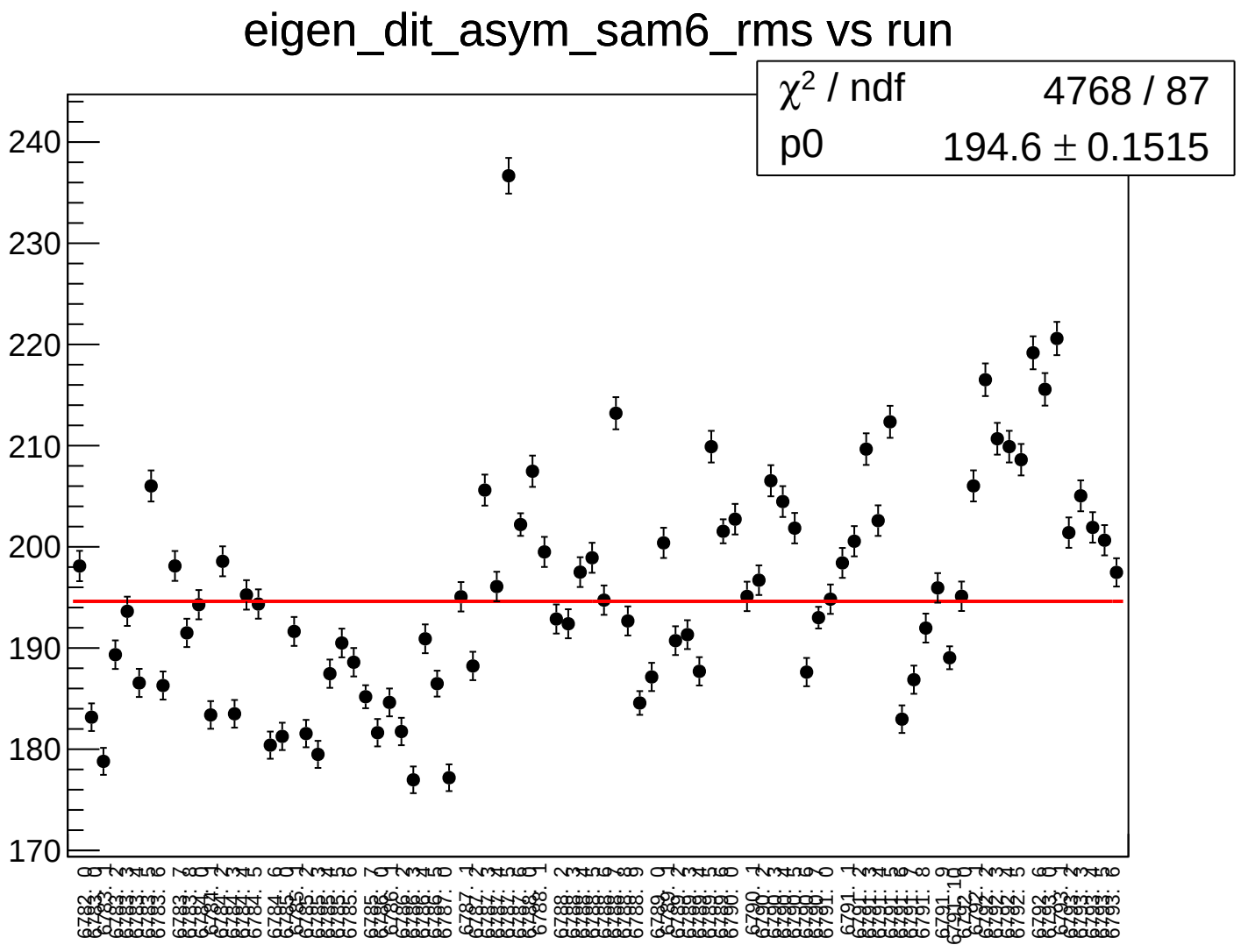

asym_sam6_dit_correction_mean vs run
χ² / ndf 81.19 / 87
p0 1874 ± 1449
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 77.06
Std Dev 0
3
2
1
0
−1
−2

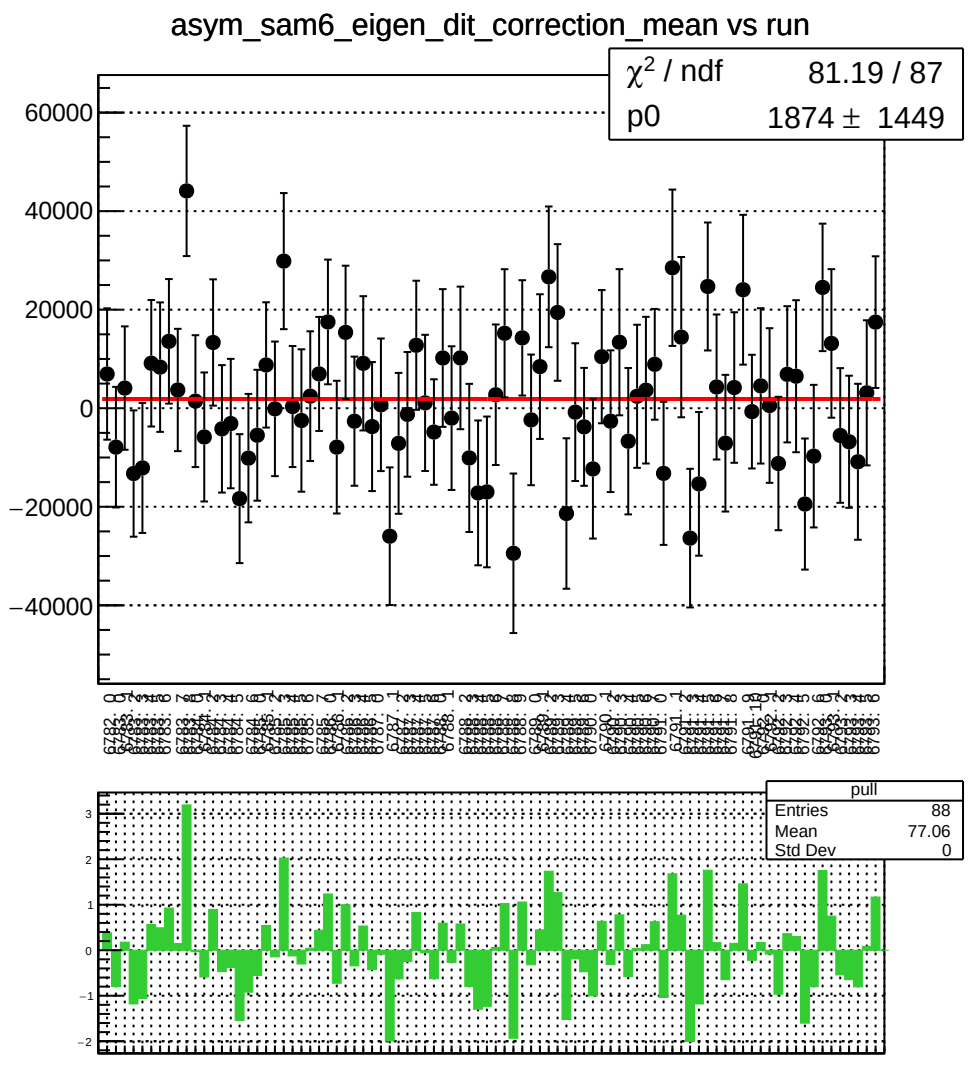

pull1D
Entries 88
Mean −0.008508
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

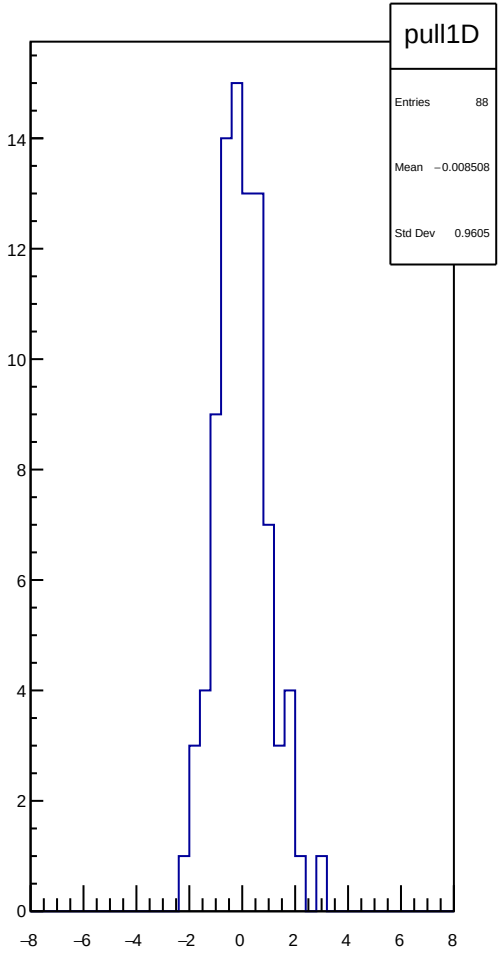

asym_sam6_dit_correction_rms vs run
χ² / ndf 7446 / 87
p0 1315 ± 1.025
1550
1500
1450
1400
1350
1300
1250
1200
1150

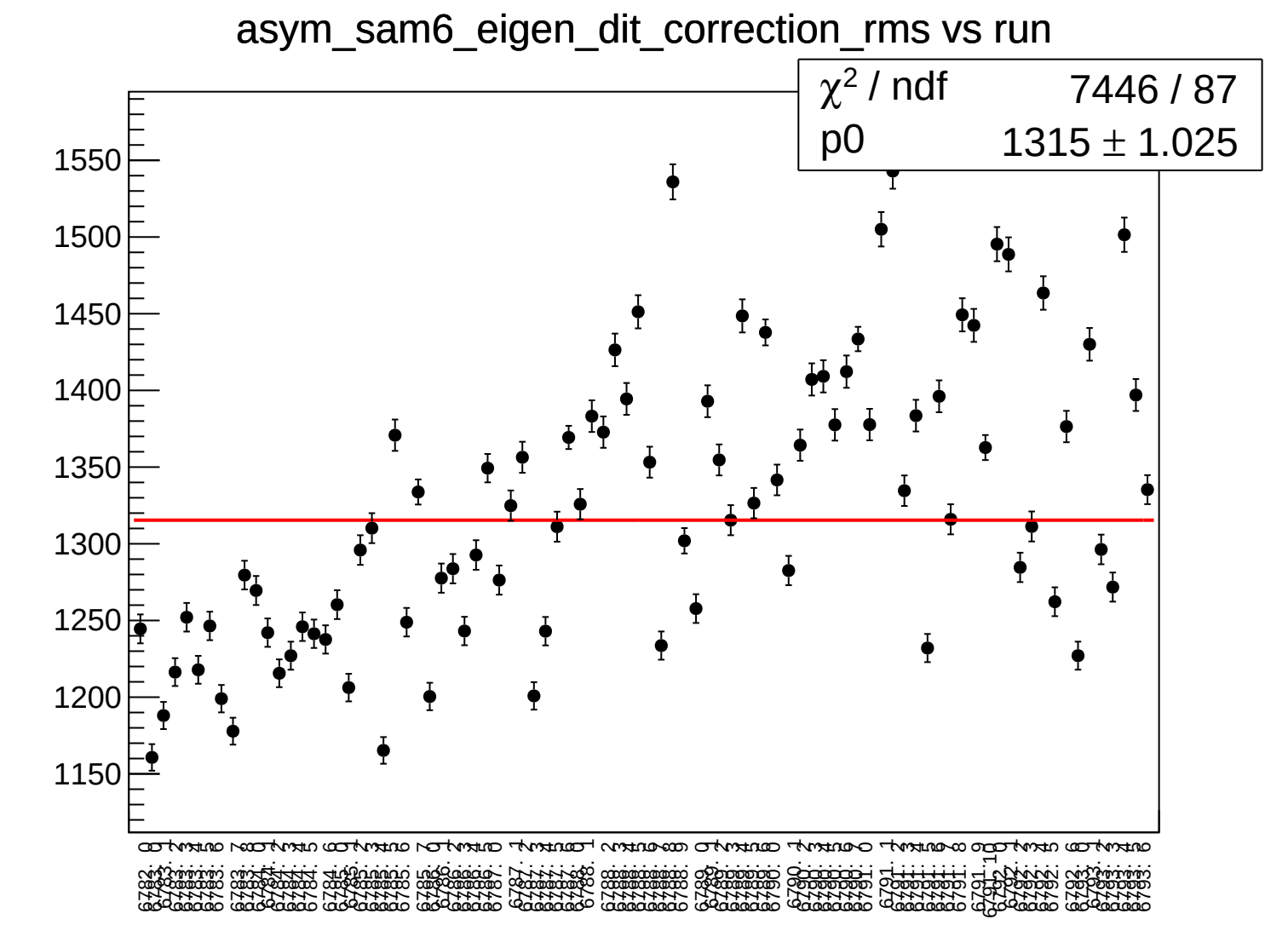

eigen_dit_asym_sam6_mean vs run
χ² / ndf 70.85 / 87
p0 124.7 ± 214.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 62.41
Std Dev 73.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

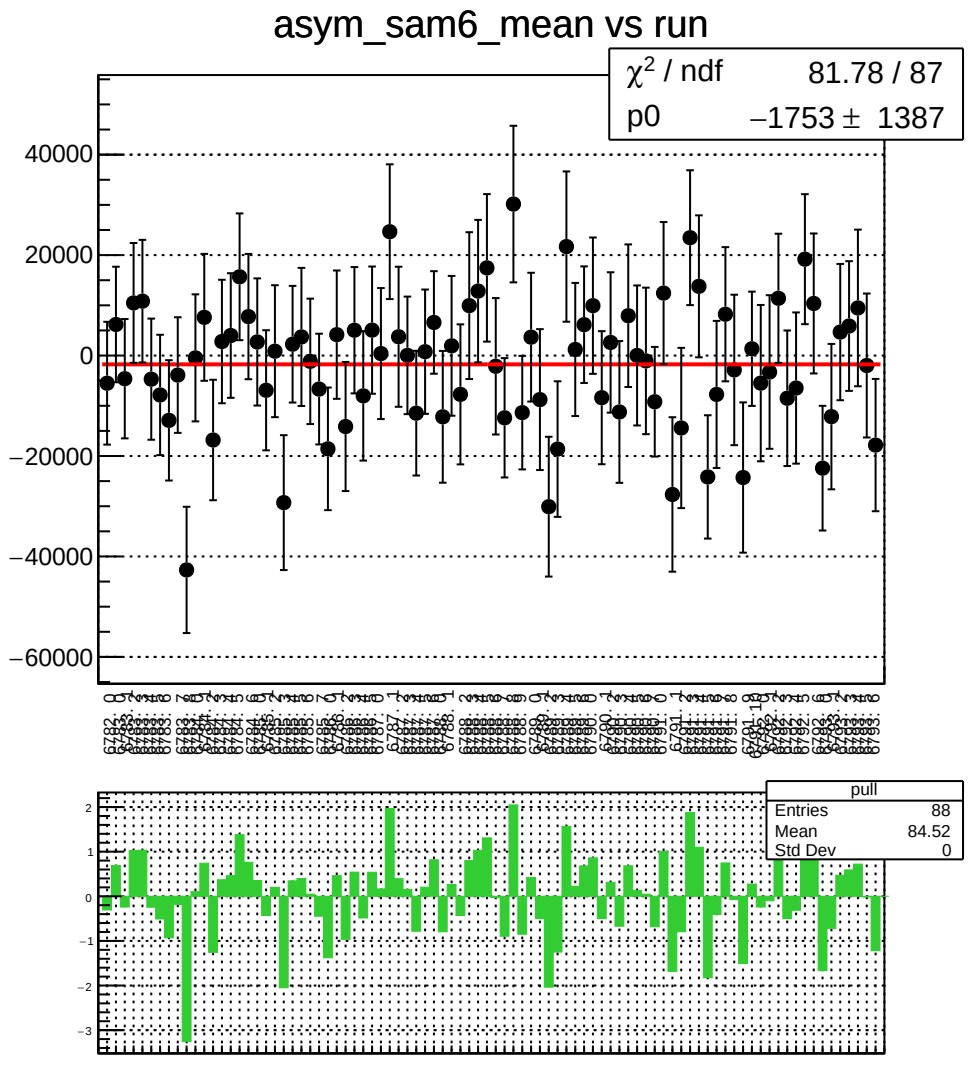

pull1D
Entries 88
Mean −0.01123
Std Dev 0.8972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

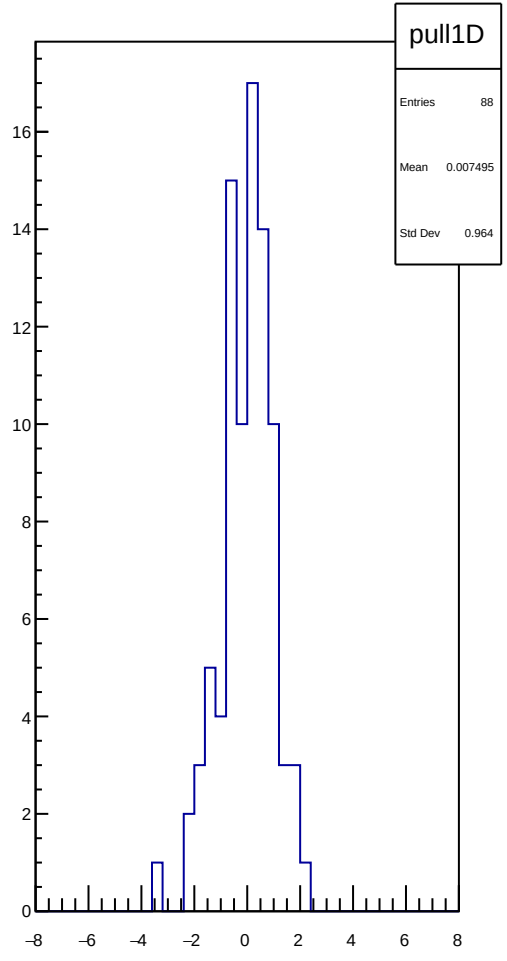

eigen_dit_asym_sam6_rms vs run
χ² / ndf 4768 / 87
p0 194.6 ± 0.1515
240
230
220
210
200
190
180
170

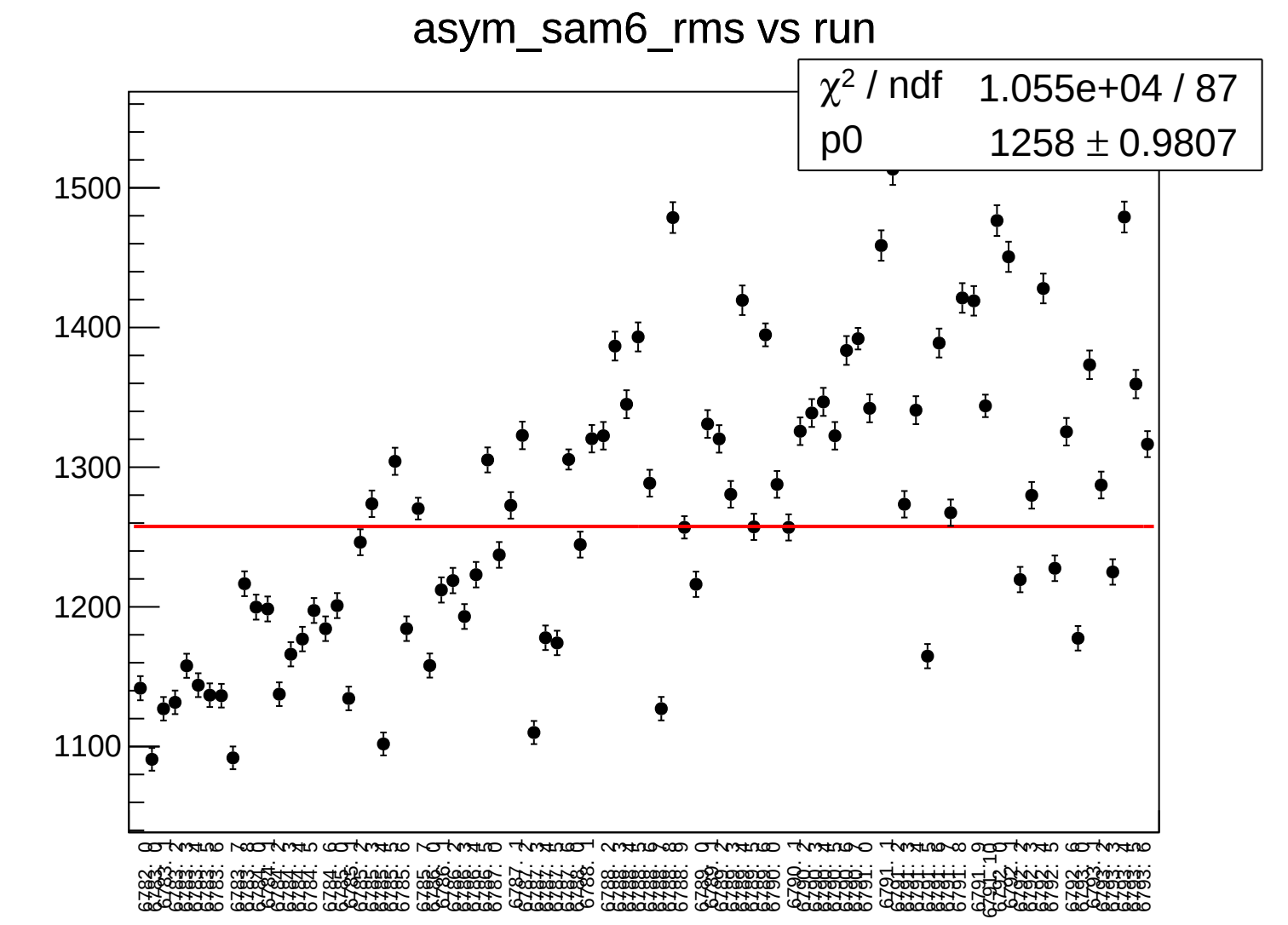

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 81.19 / 87
p0 1874 ± 1449
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 77.06
Std Dev 0
3
2
1
0
−1
−2

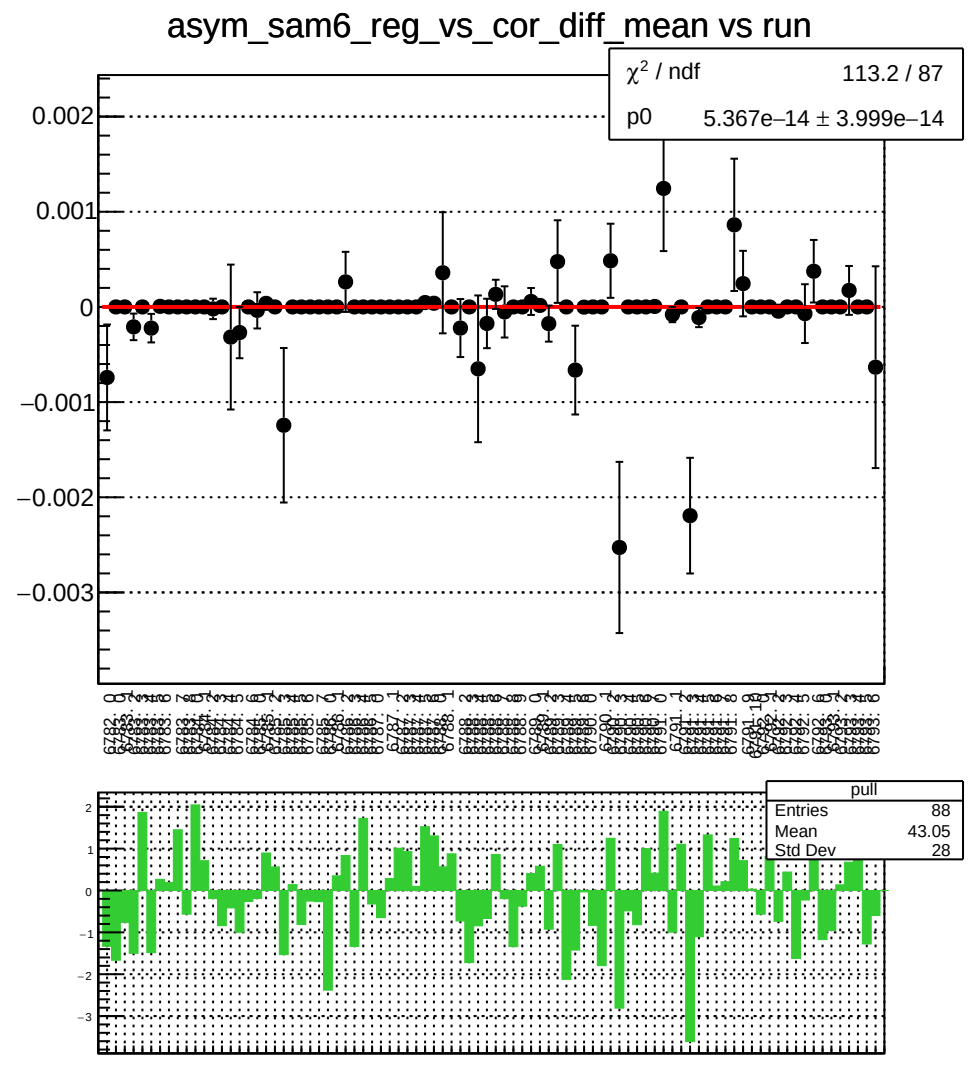

pull1D
Entries 88
Mean −0.008508
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

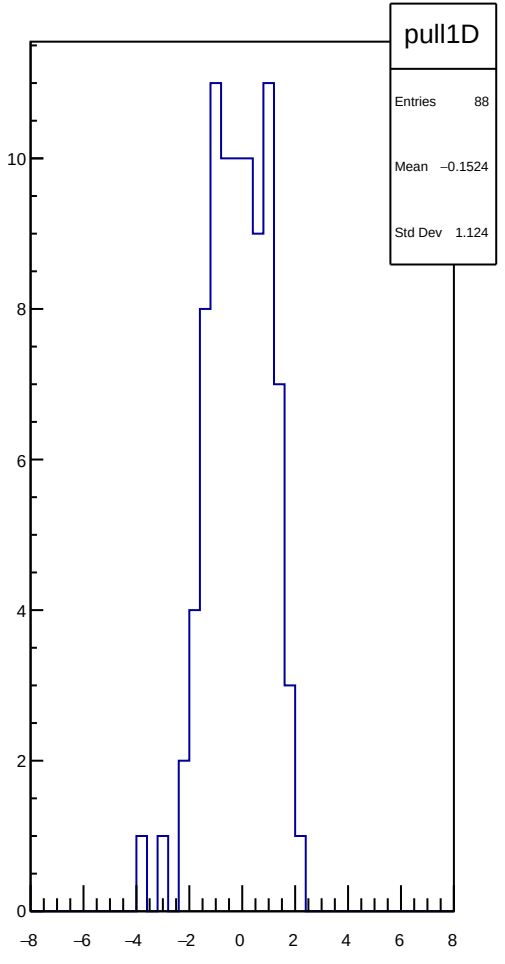

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 7446 / 87
p0 1315 ± 1.025
1550
1500
1450
1400
1350
1300
1250
1200
1150

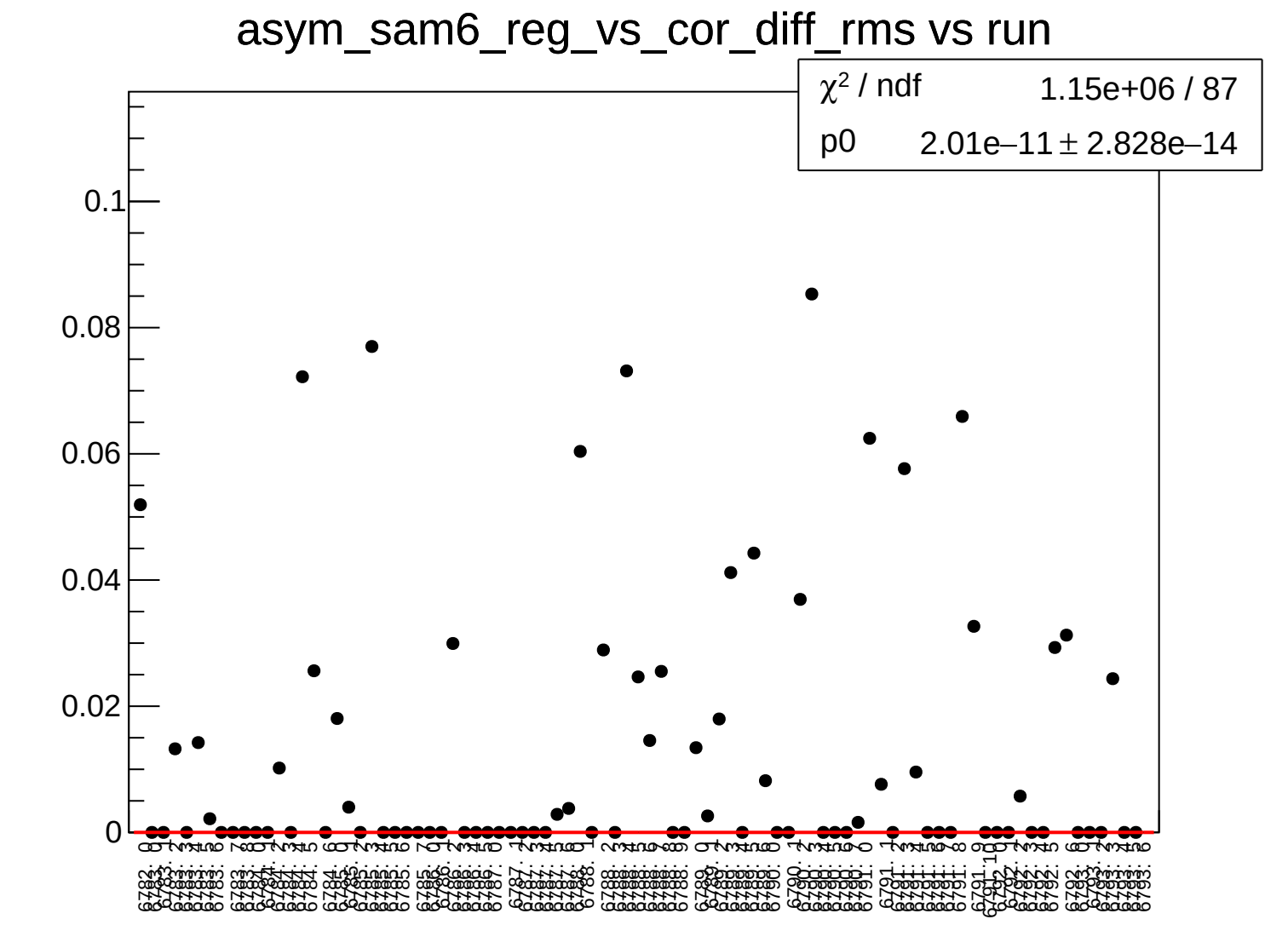

asym_sam6_mean vs run
χ² / ndf 81.78 / 87
p0 −1753 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 84.52
Std Dev 0
2
1
0
−1
−2
−3

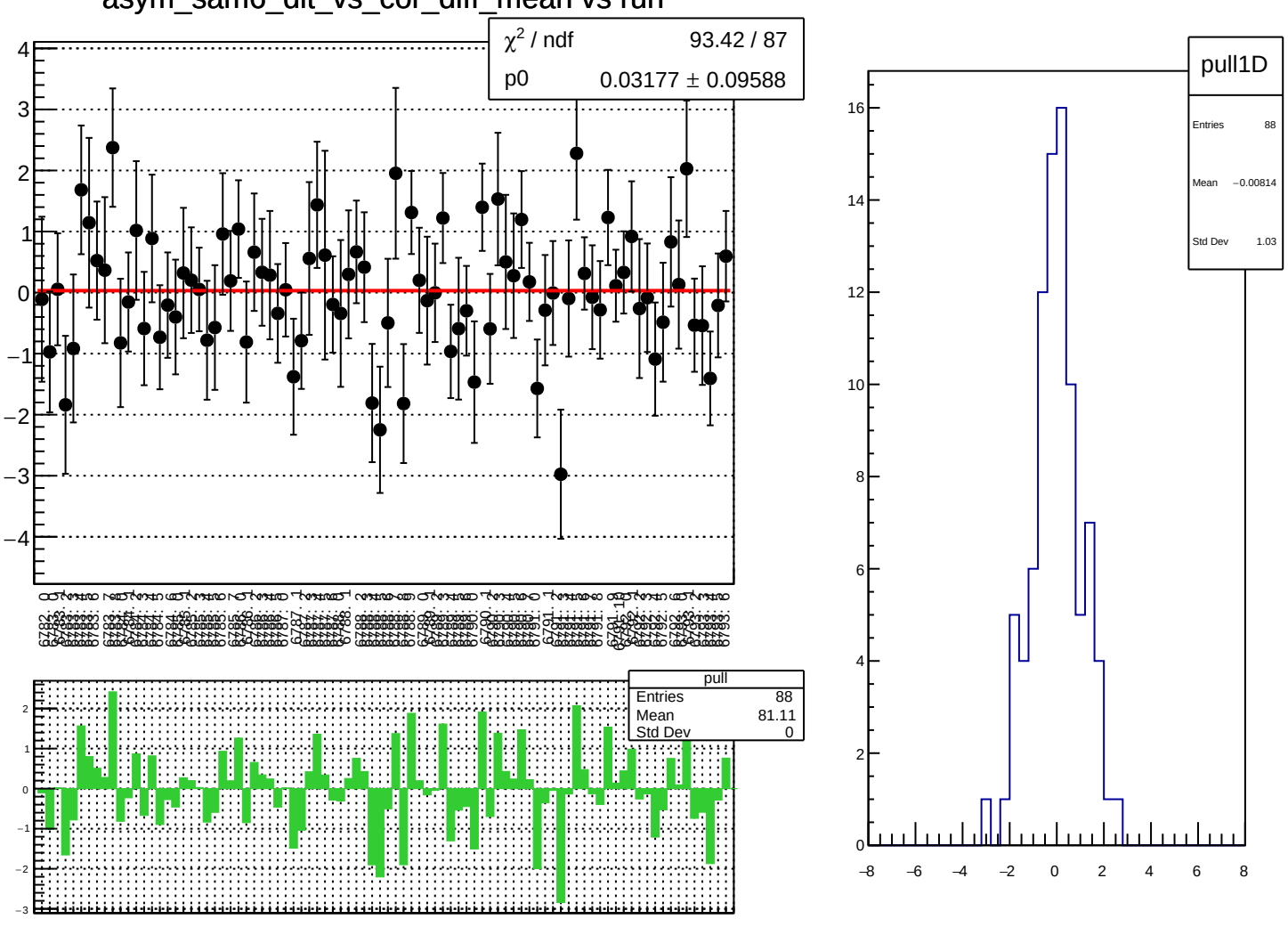

pull1D
Entries 88
Mean 0.007495
Std Dev 0.964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

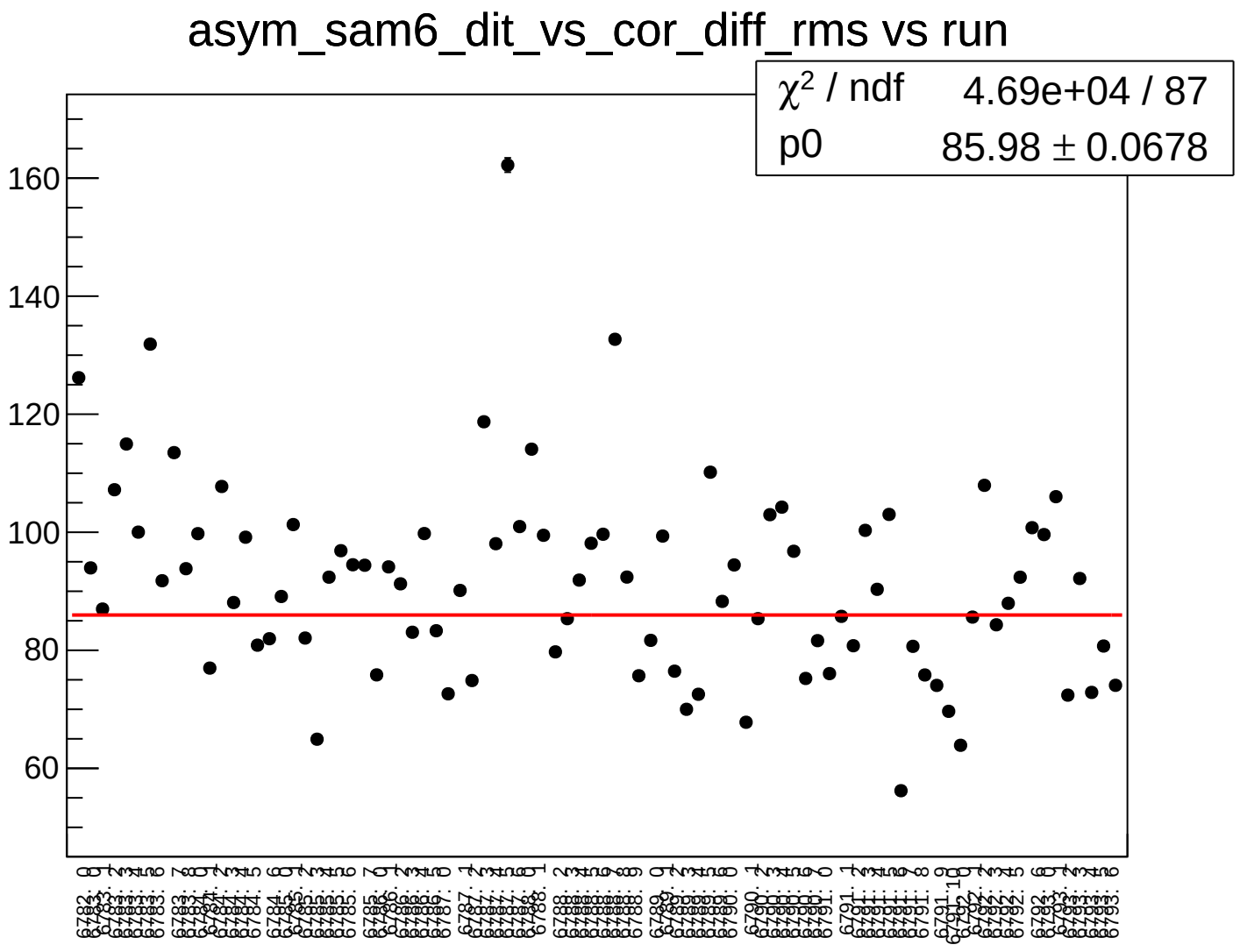

asym_sam6_rms vs run
χ² / ndf 1.055e+04 / 87
p0 1258 ± 0.9807
1500
1400
1300
1200
1100

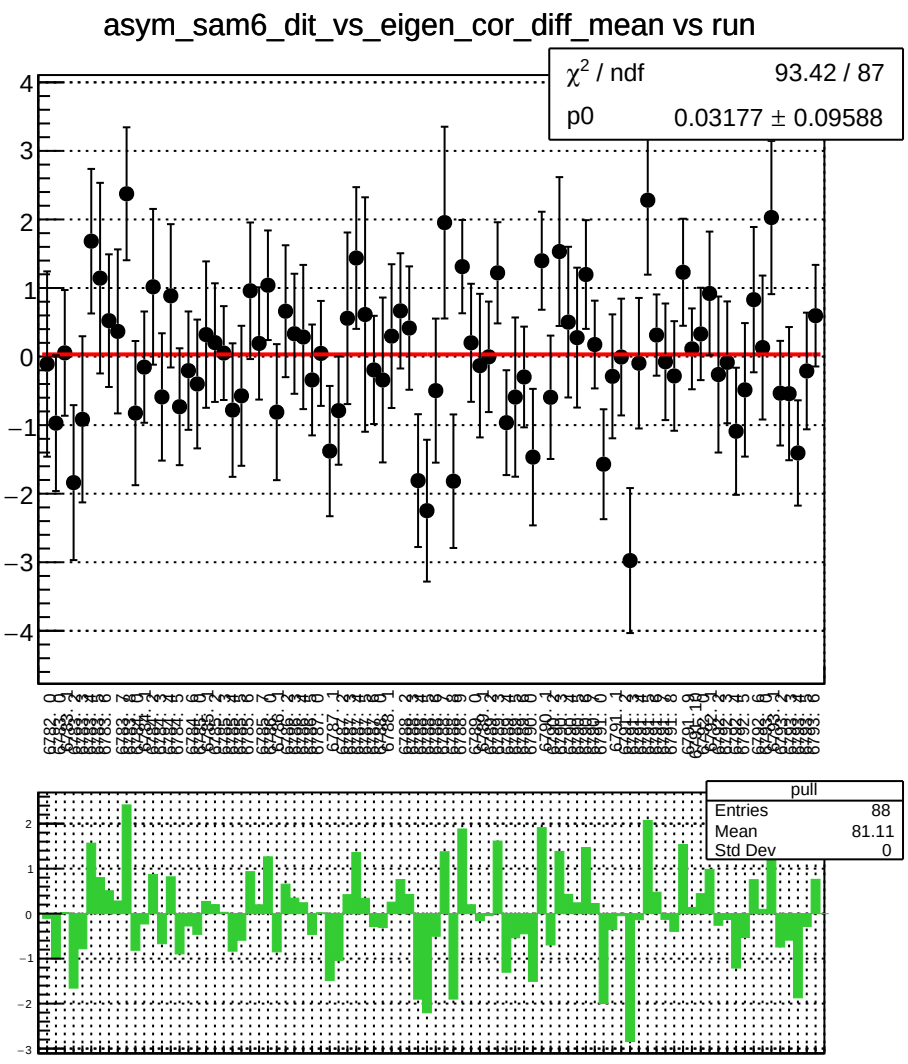

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 113.2 / 87
p0 5.367e−14 ± 3.999e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean 43.05
Std Dev 28
2
1
0
−1
−2
−3

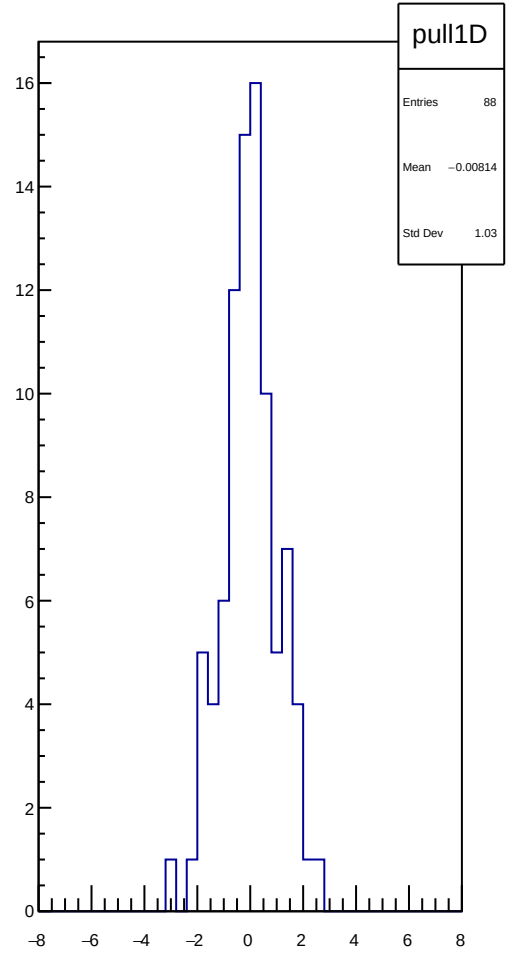

pull1D
Entries 88
Mean −0.1524
Std Dev 1.124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

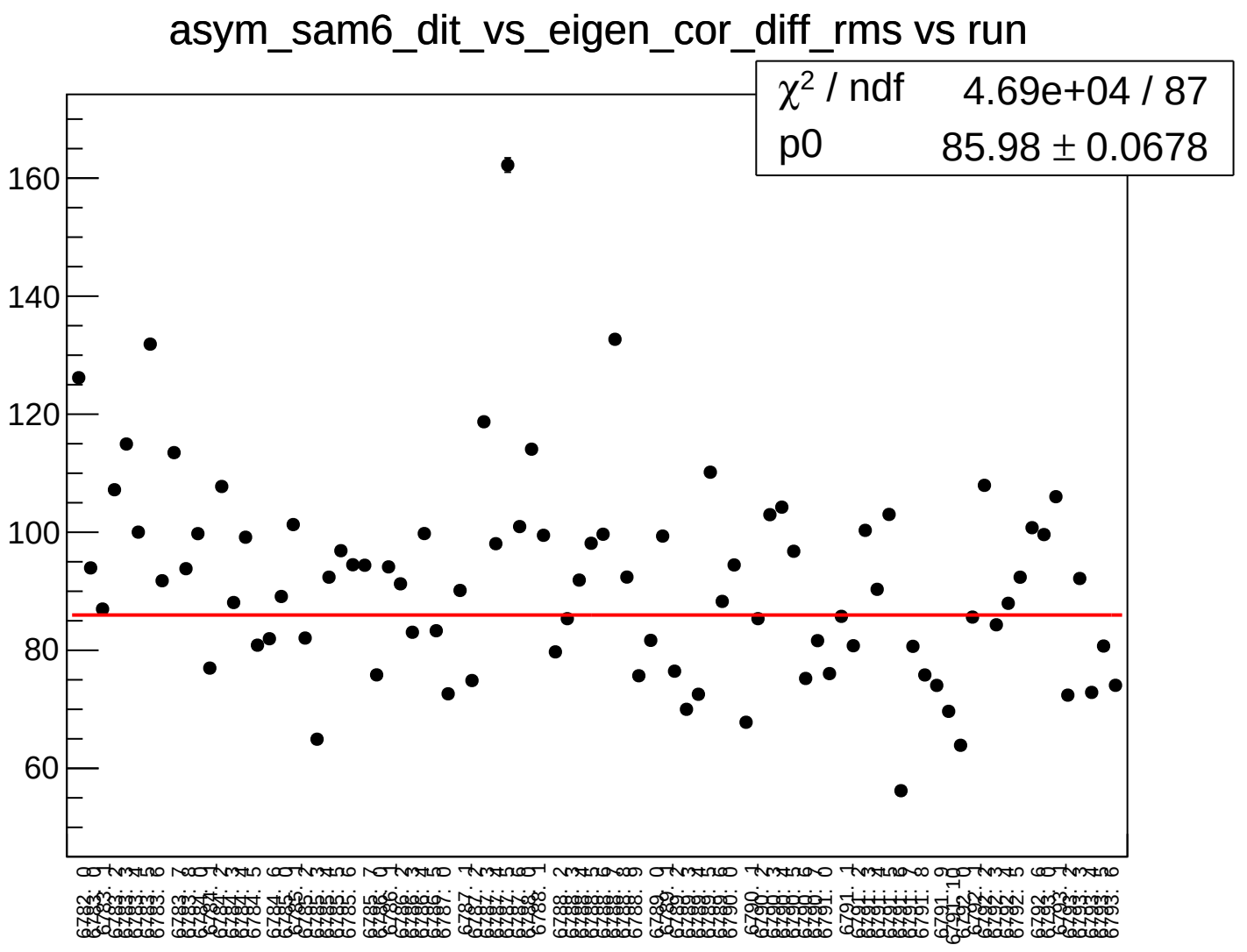

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 87
p0 2.01e−11 ± 2.828e−14
0.1
0.08
0.06
0.04
0.02
0

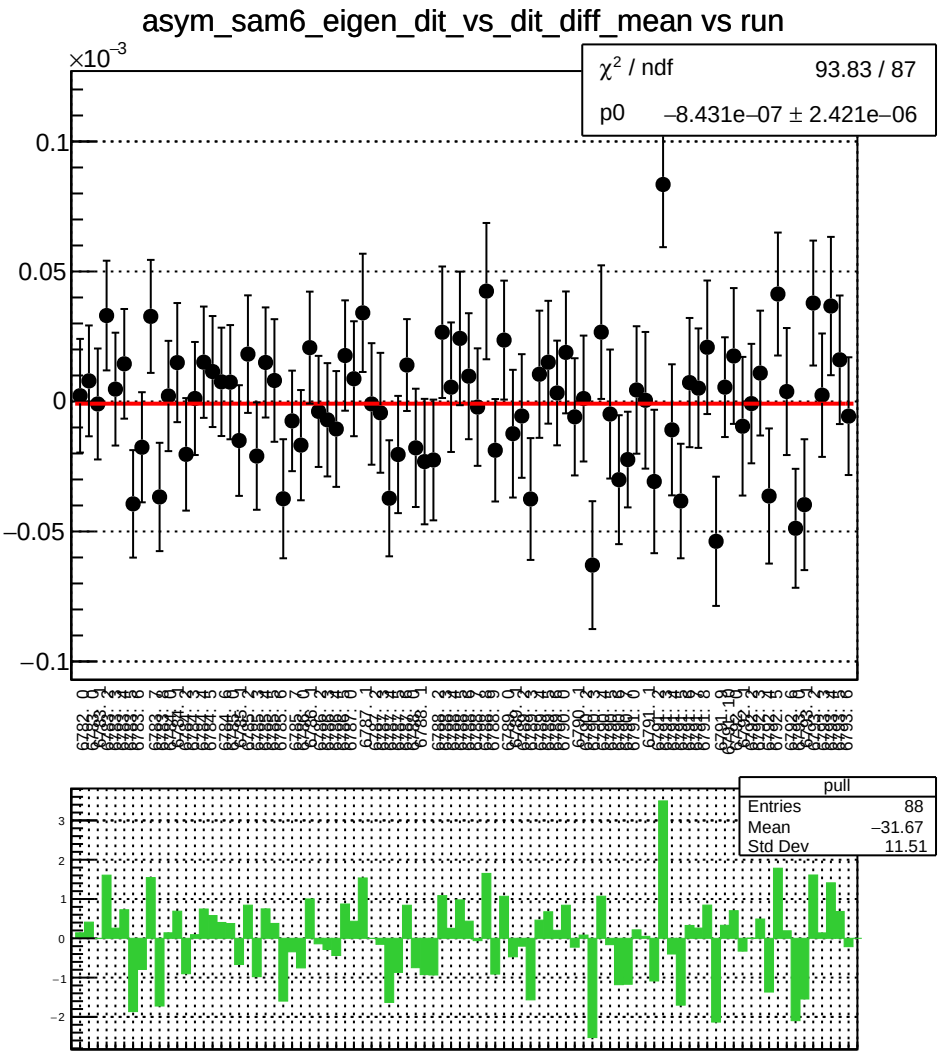

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 93.42 / 87
p0 0.03177 ± 0.09588
pull
Entries 88
Mean 81.11
Std Dev 0
pull1D
Entries 88
Mean −0.00814
Std Dev 1.03

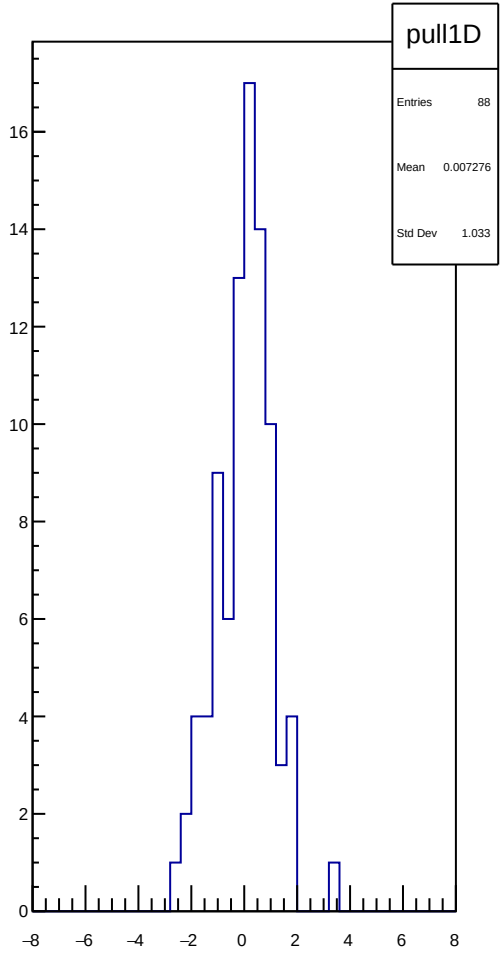

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 87
p0 85.98 ± 0.0678
160
140
120
100
80
60

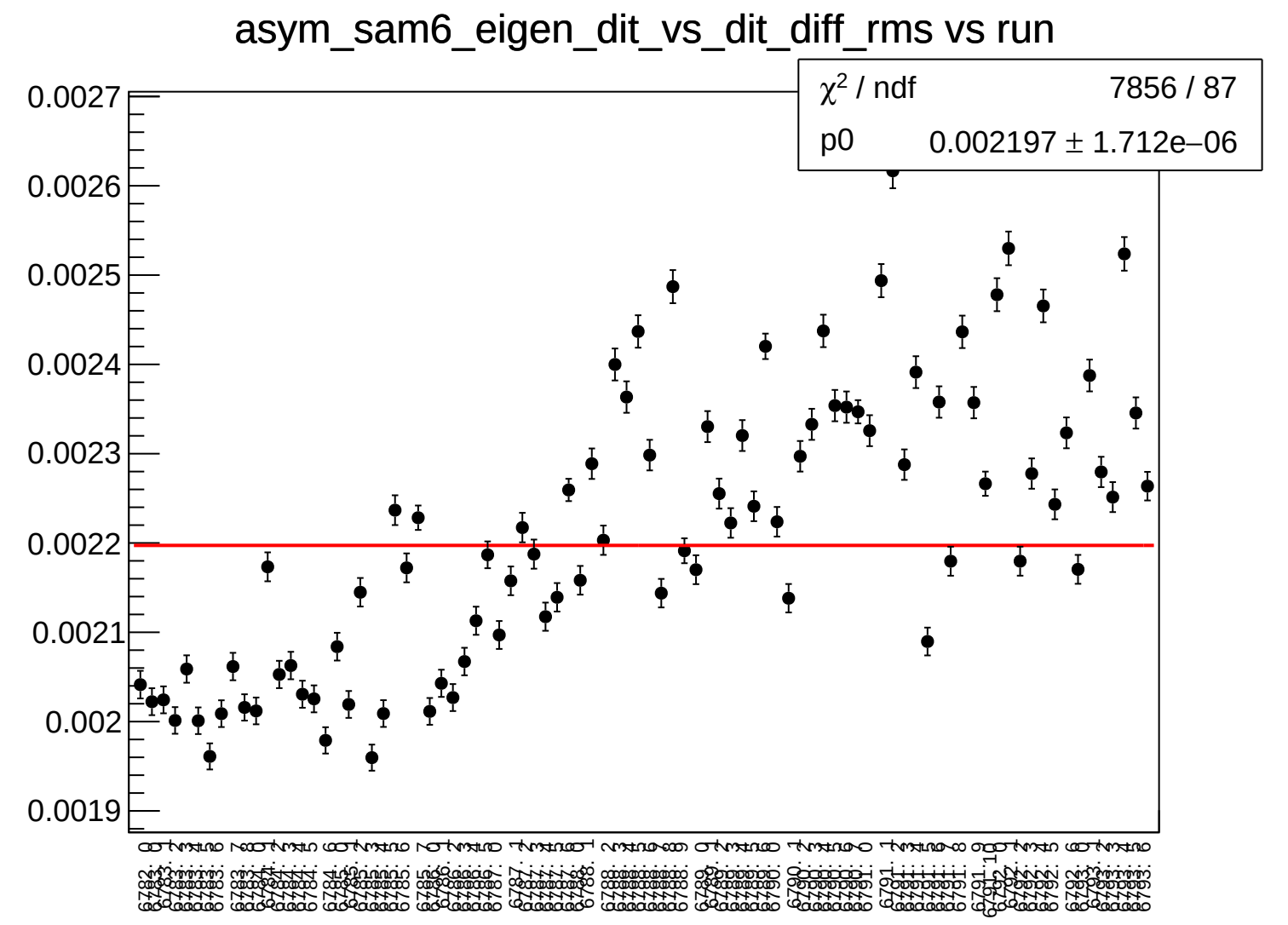

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.42 / 87
p0 0.03177 ± 0.09588
pull
Entries 88
Mean 81.11
Std Dev 0

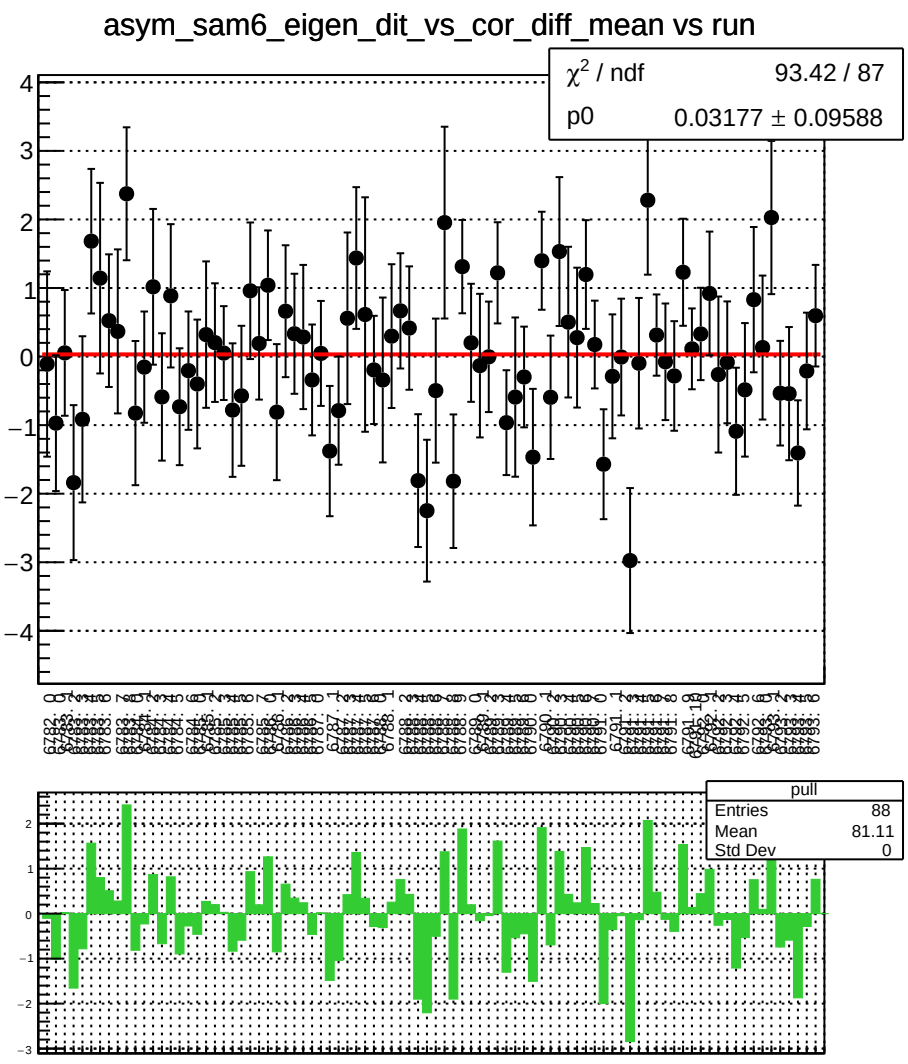

pull1D
Entries 88
Mean −0.00814
Std Dev 1.03

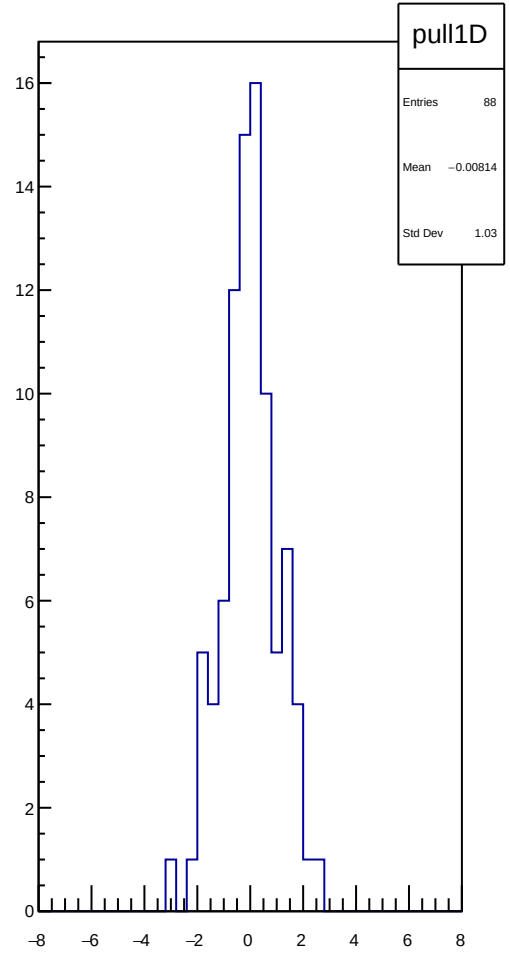

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 87
p0 85.98 ± 0.0678
160
140
120
100
80
60

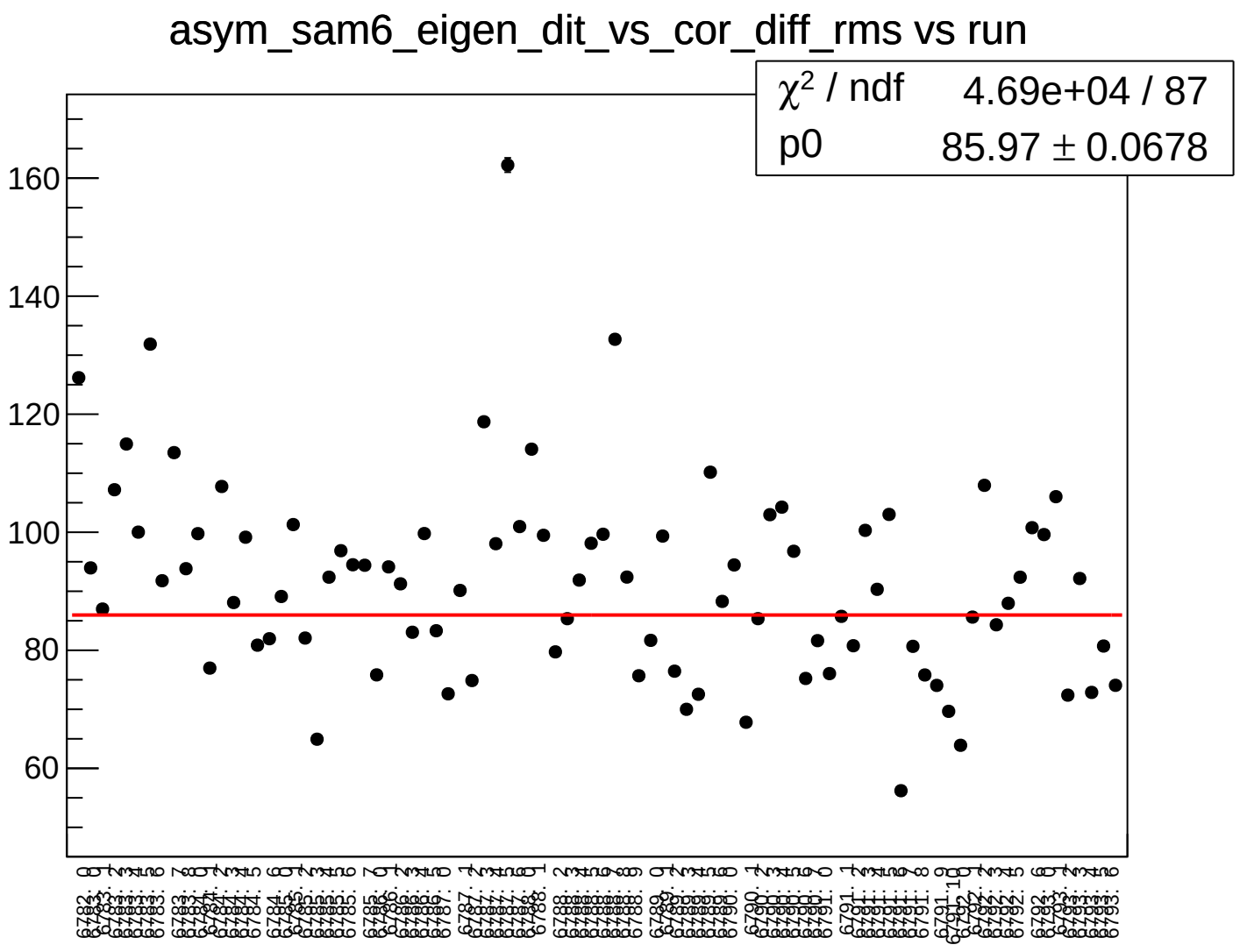

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.83 / 87
p0 −8.431e−07 ± 2.421e−06
pull
Entries 88
Mean −31.67
Std Dev 11.51

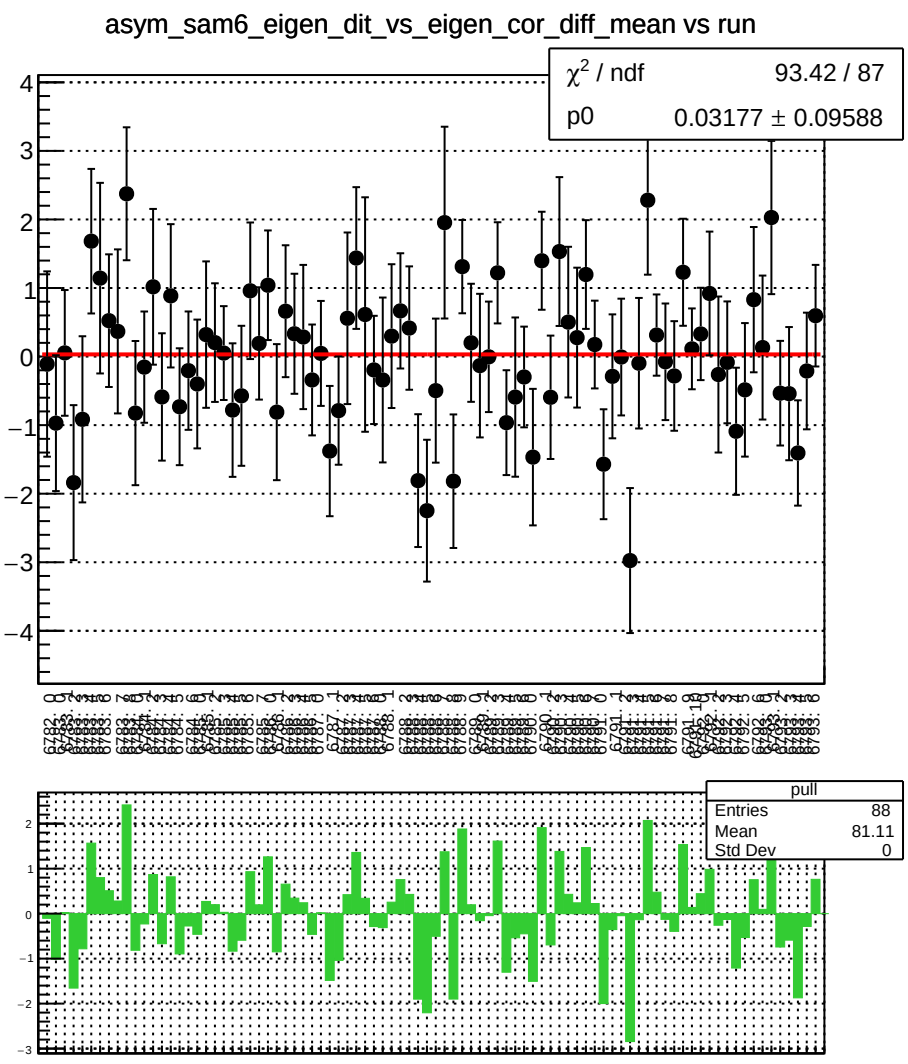

pull1D
Entries 88
Mean 0.007276
Std Dev 1.033

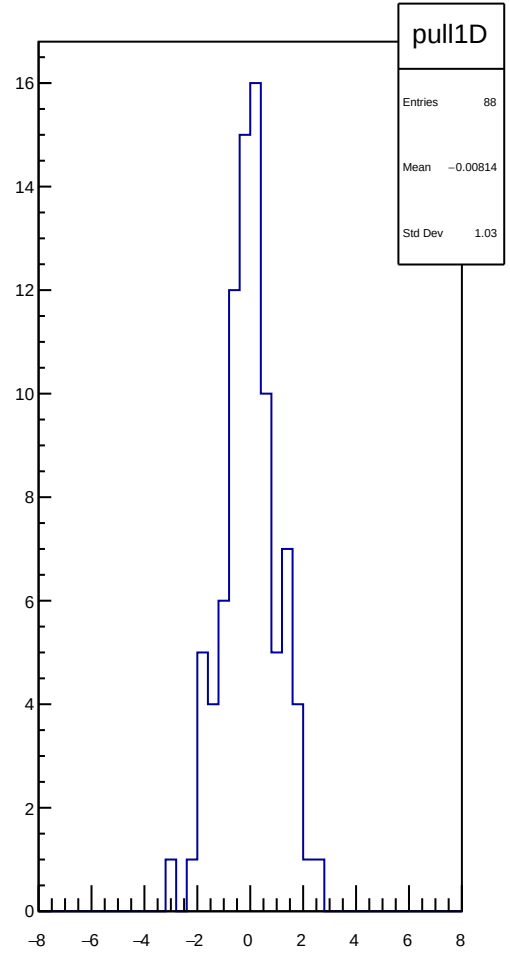

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7856 / 87
p0 0.002197 ± 1.712e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

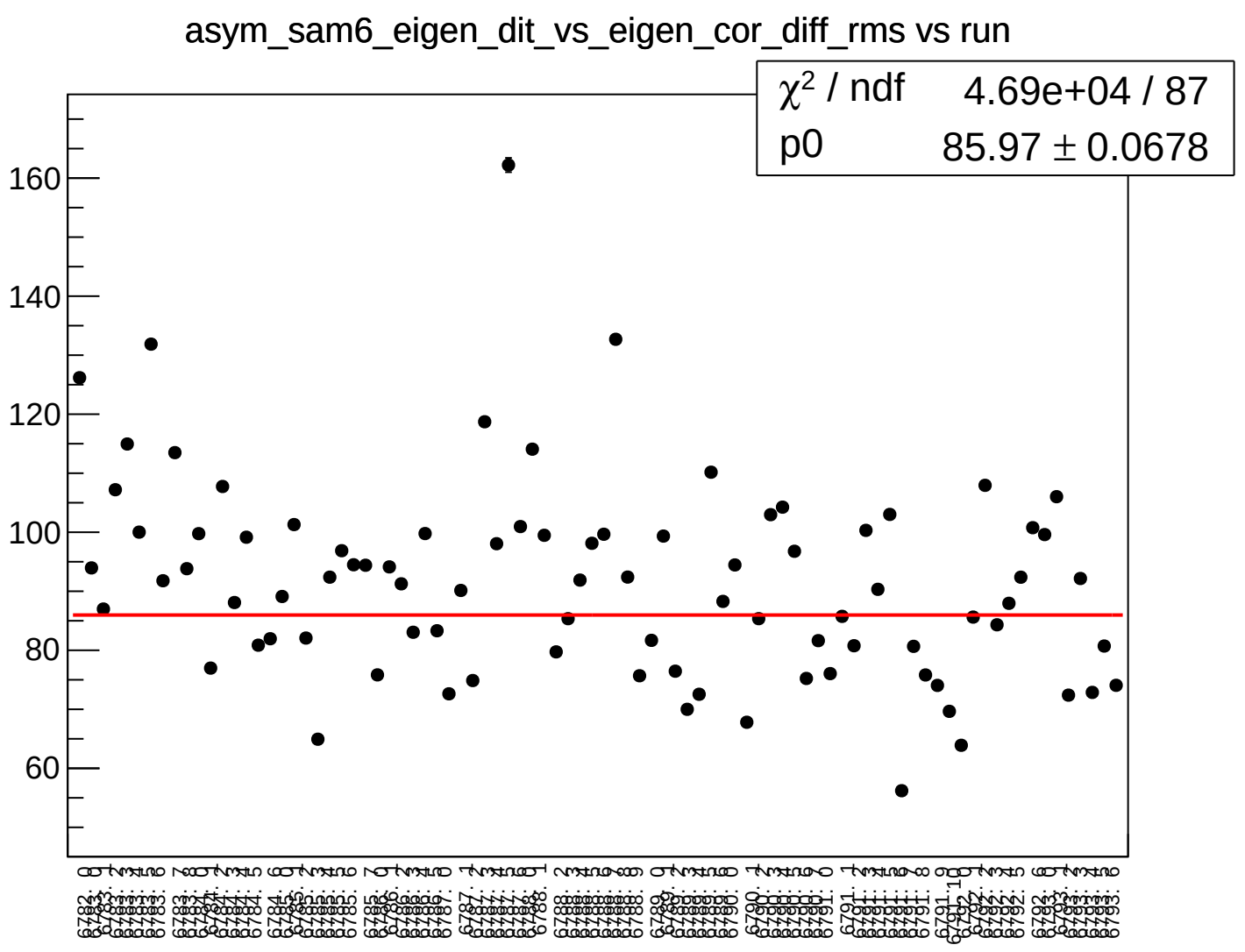

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.42 / 87
p0 0.03177 ± 0.09588
pull
Entries 88
Mean 81.11
Std Dev 0

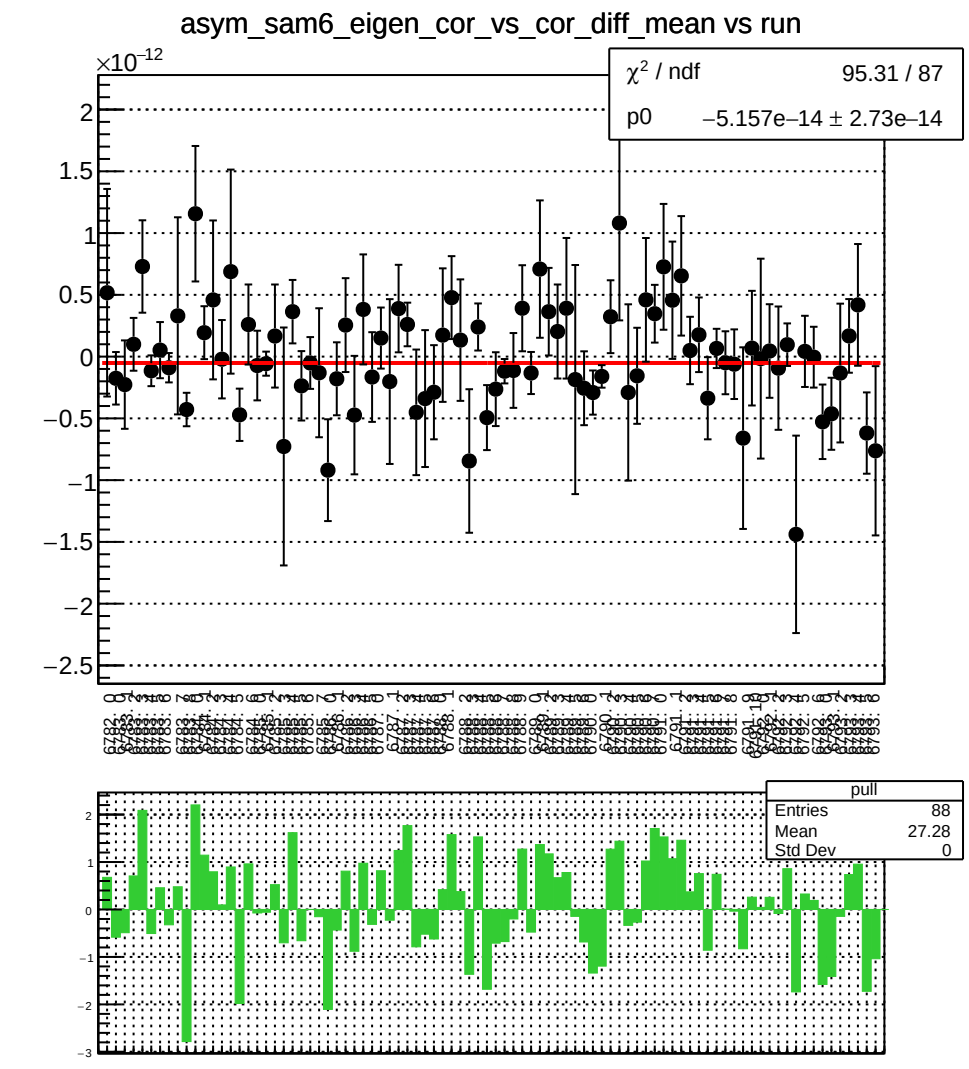

pull1D
Entries 88
Mean −0.00814
Std Dev 1.03

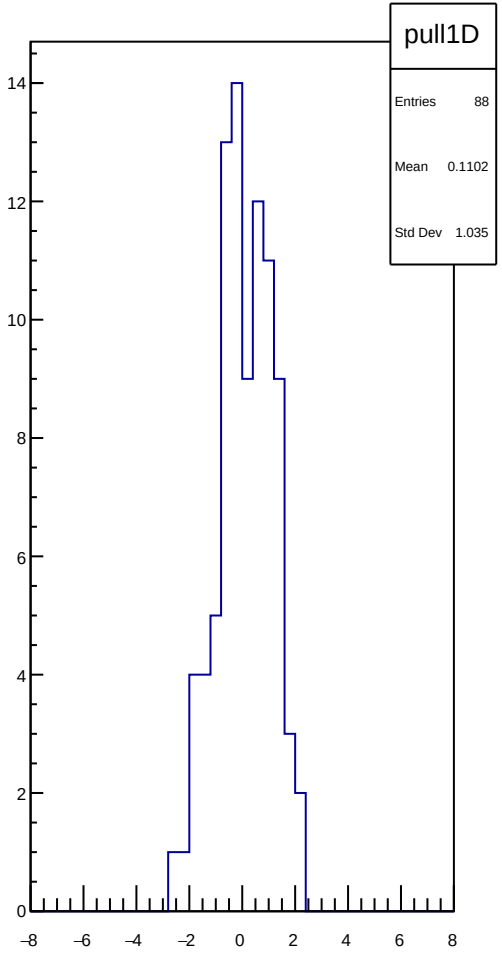

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 87
p0 85.97 ± 0.0678
160
140
120
100
80
60

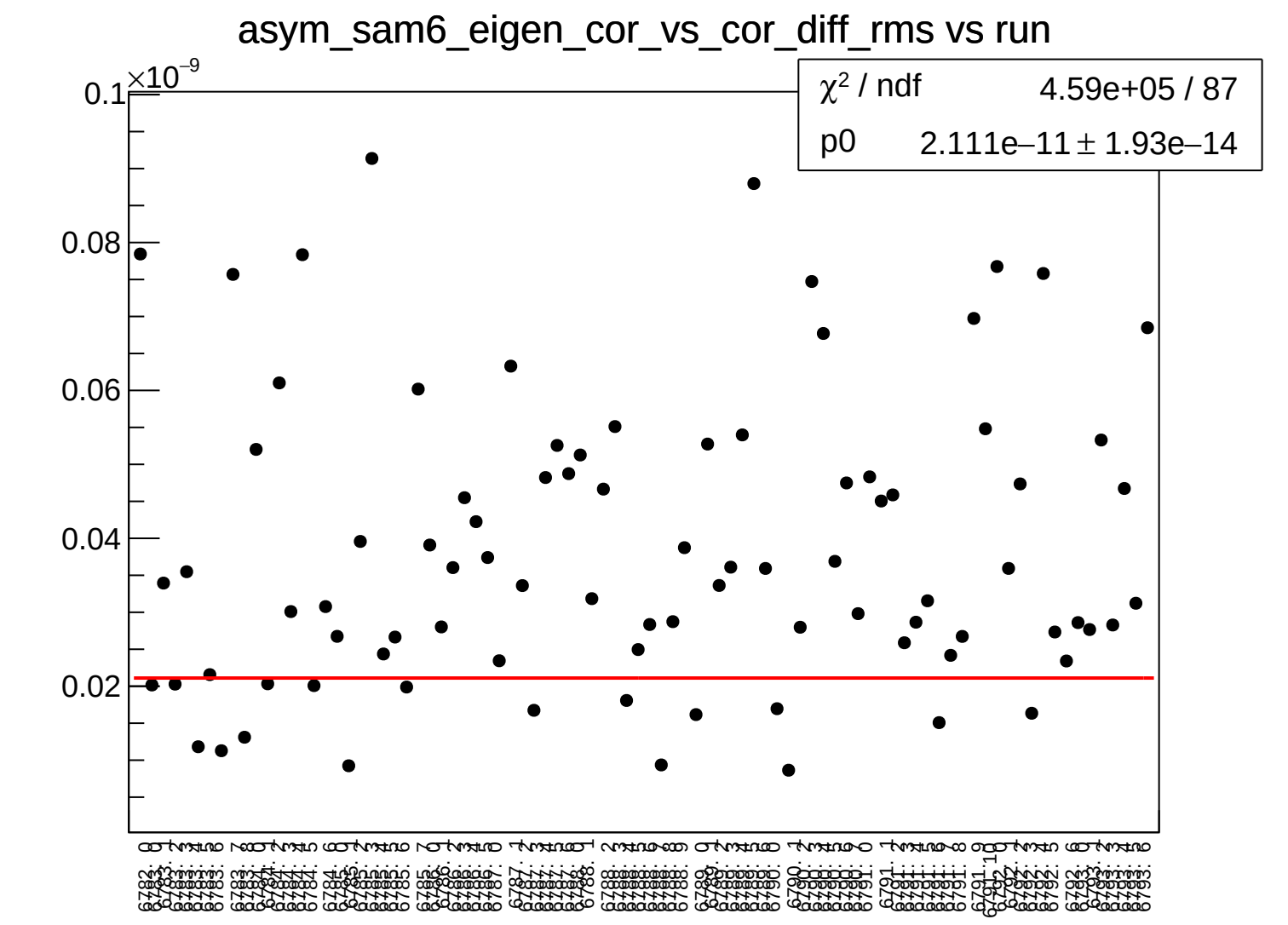

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.42 / 87
p0 0.03177 ± 0.09588
pull
Entries 88
Mean 81.11
Std Dev 0

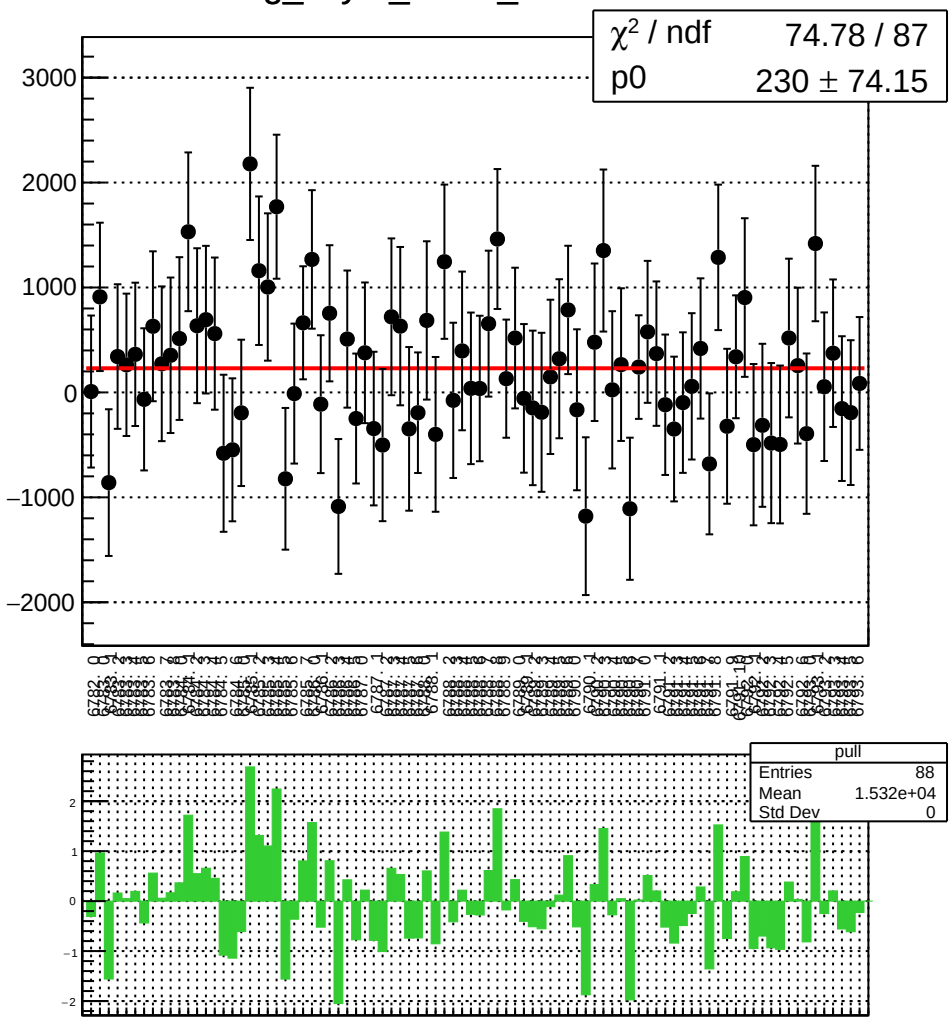

pull1D
Entries 88
Mean −0.00814
Std Dev 1.03

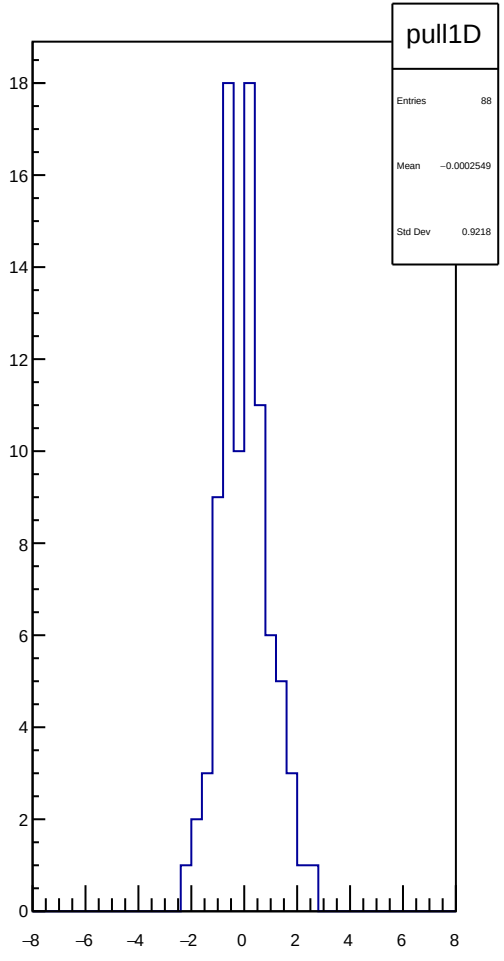

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 87
p0 85.97 ± 0.0678
160
140
120
100
80
60

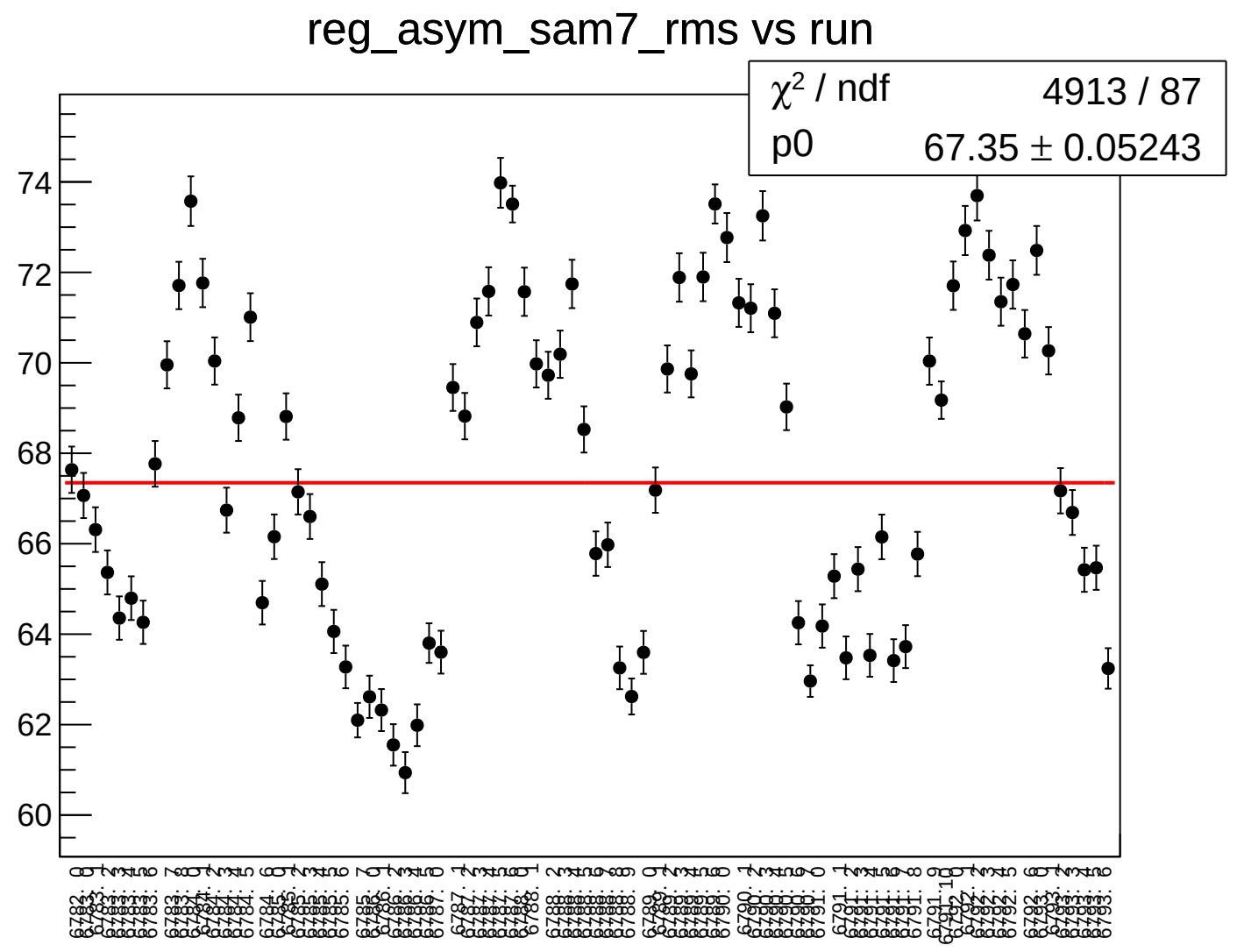

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.31 / 87
p0 −5.157e−14 ± 2.73e−14
pull
Entries 88
Mean 27.28
Std Dev 0

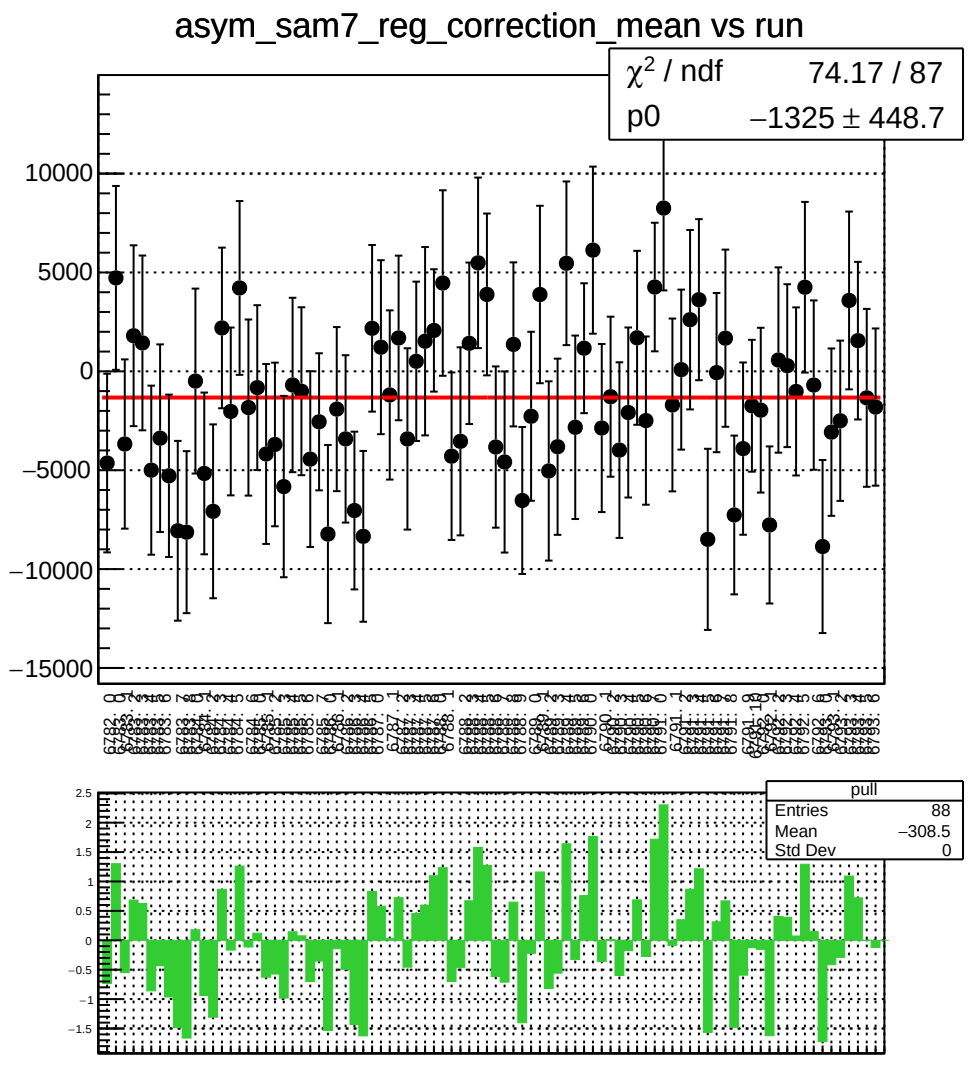

pull1D
Entries 88
Mean 0.1102
Std Dev 1.035

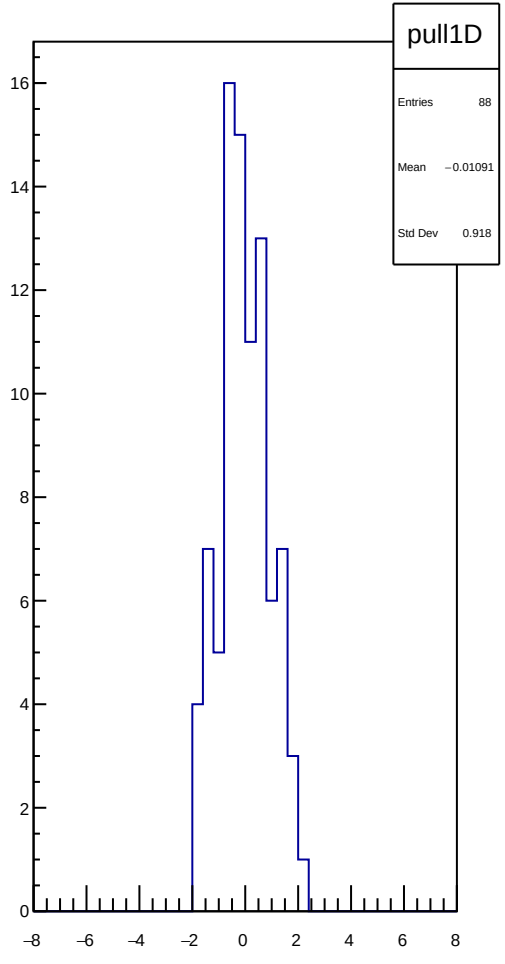

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.59e+05 / 87
p0 2.111e−11 ± 1.93e−14

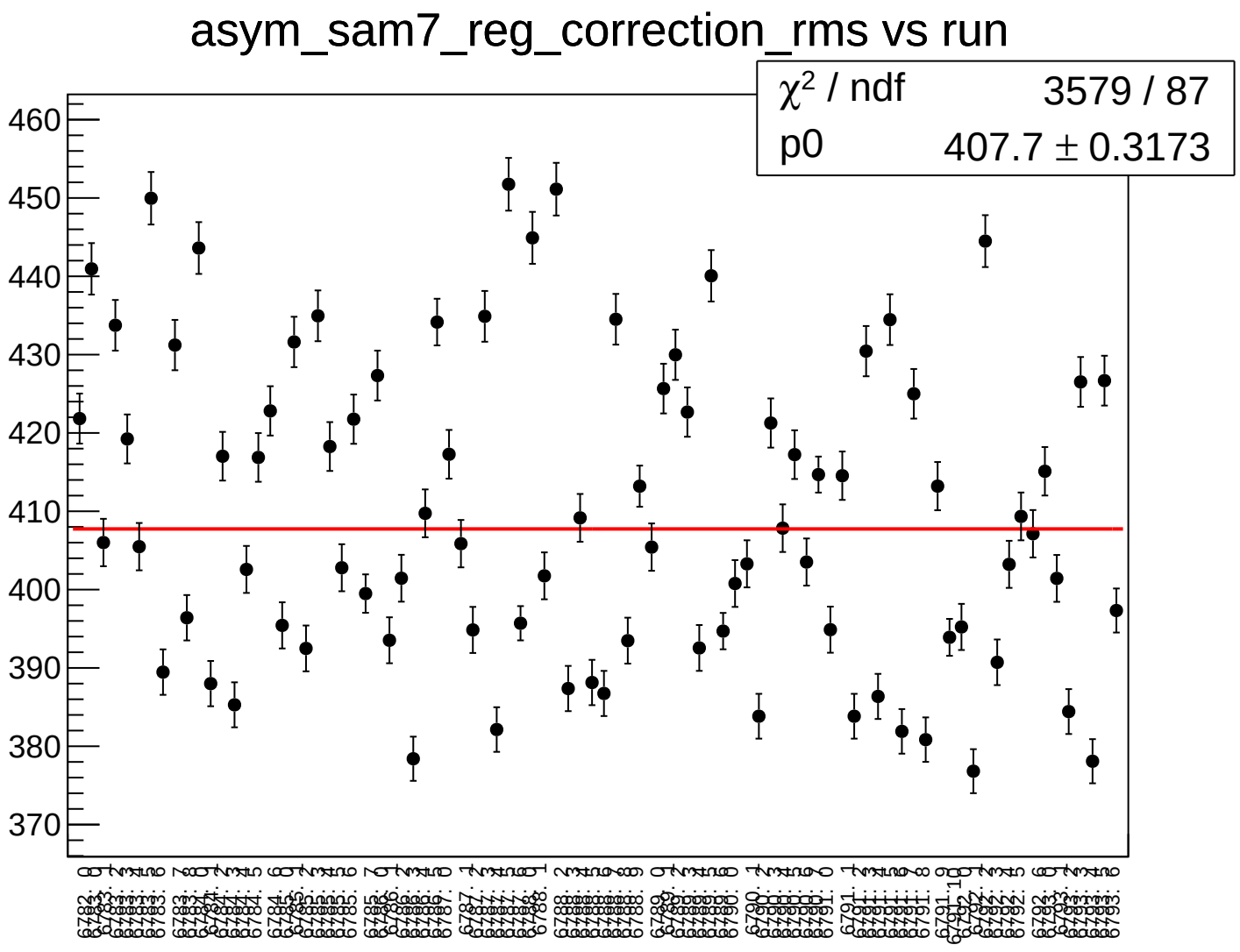

reg_asym_sam7_mean vs run
χ² / ndf 74.78 / 87
p0 230 ± 74.15
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1.532e+04
Std Dev 0
2
1
0
−1
−2

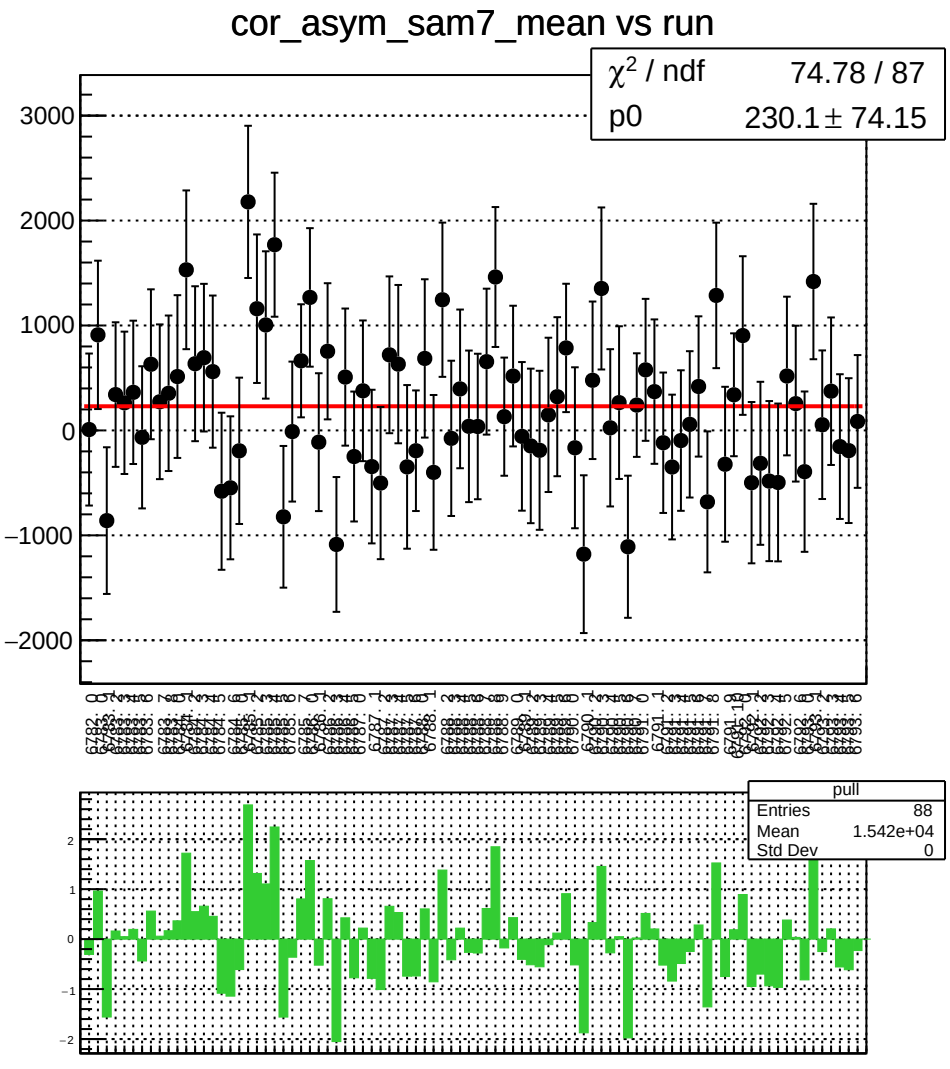

pull1D
Entries 88
Mean −0.0002549
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

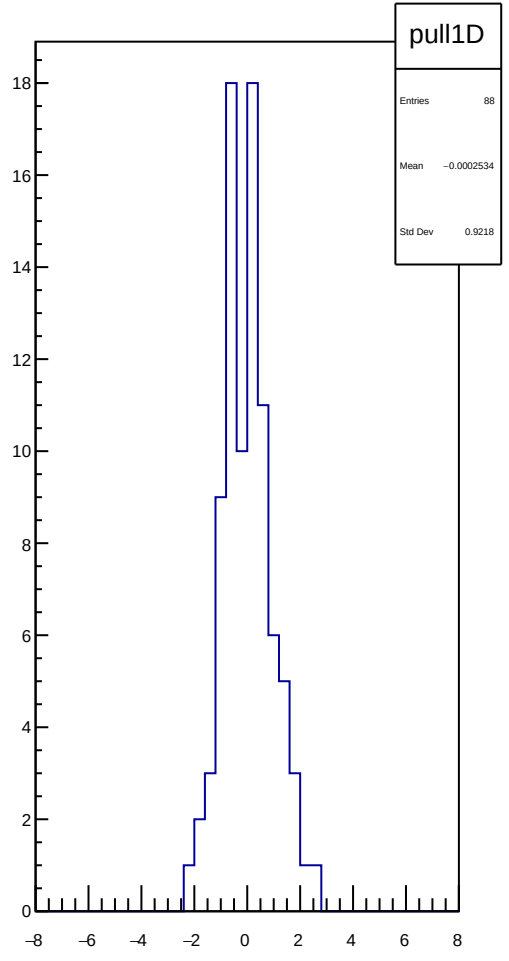

reg_asym_sam7_rms vs run
χ² / ndf 4913 / 87
p0 67.35 ± 0.05243
74
72
70
68
66
64
62
60

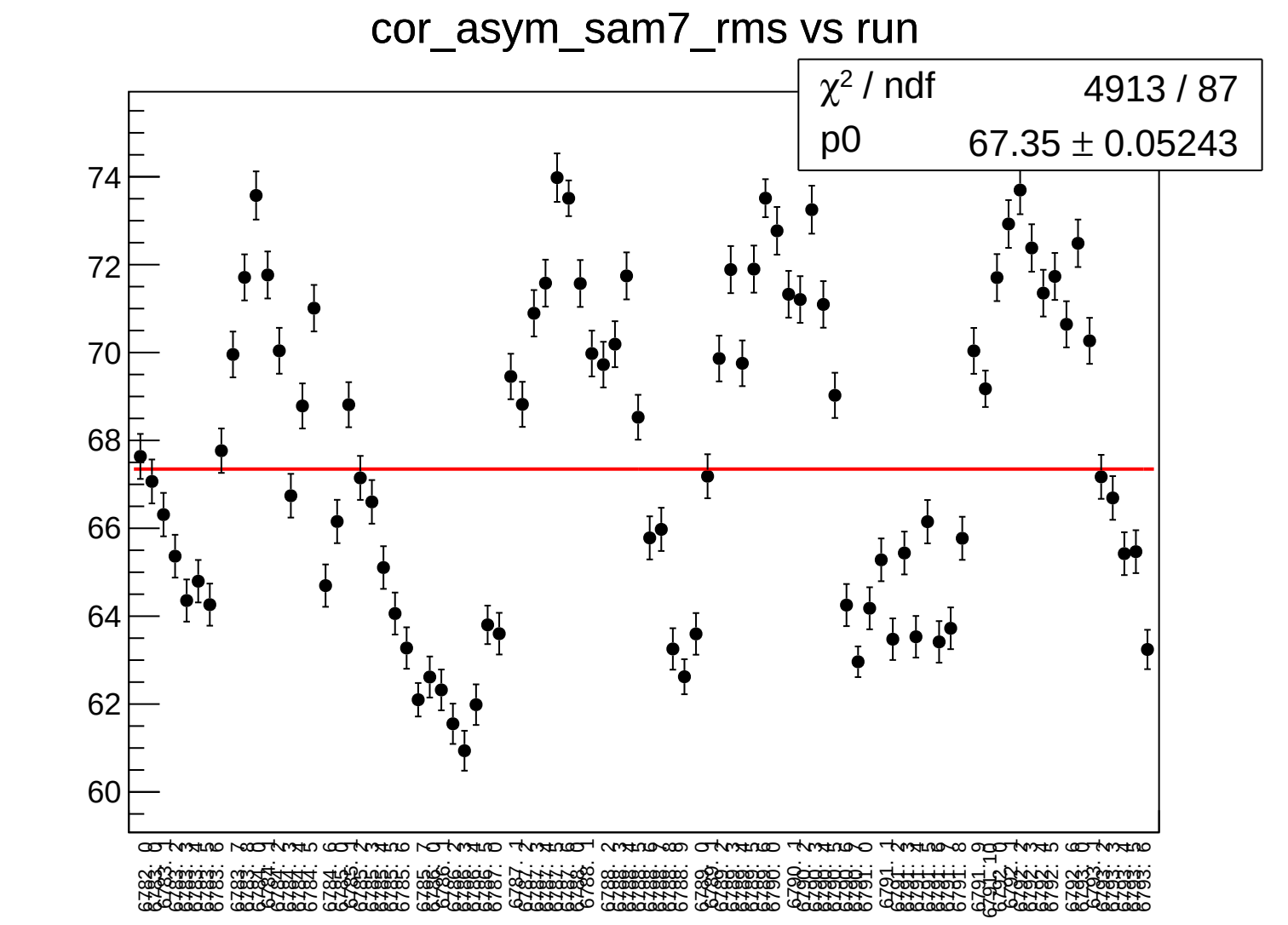

asym_sam7_reg_correction_mean vs run
χ² / ndf 74.17 / 87
p0 −1325 ± 448.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −308.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

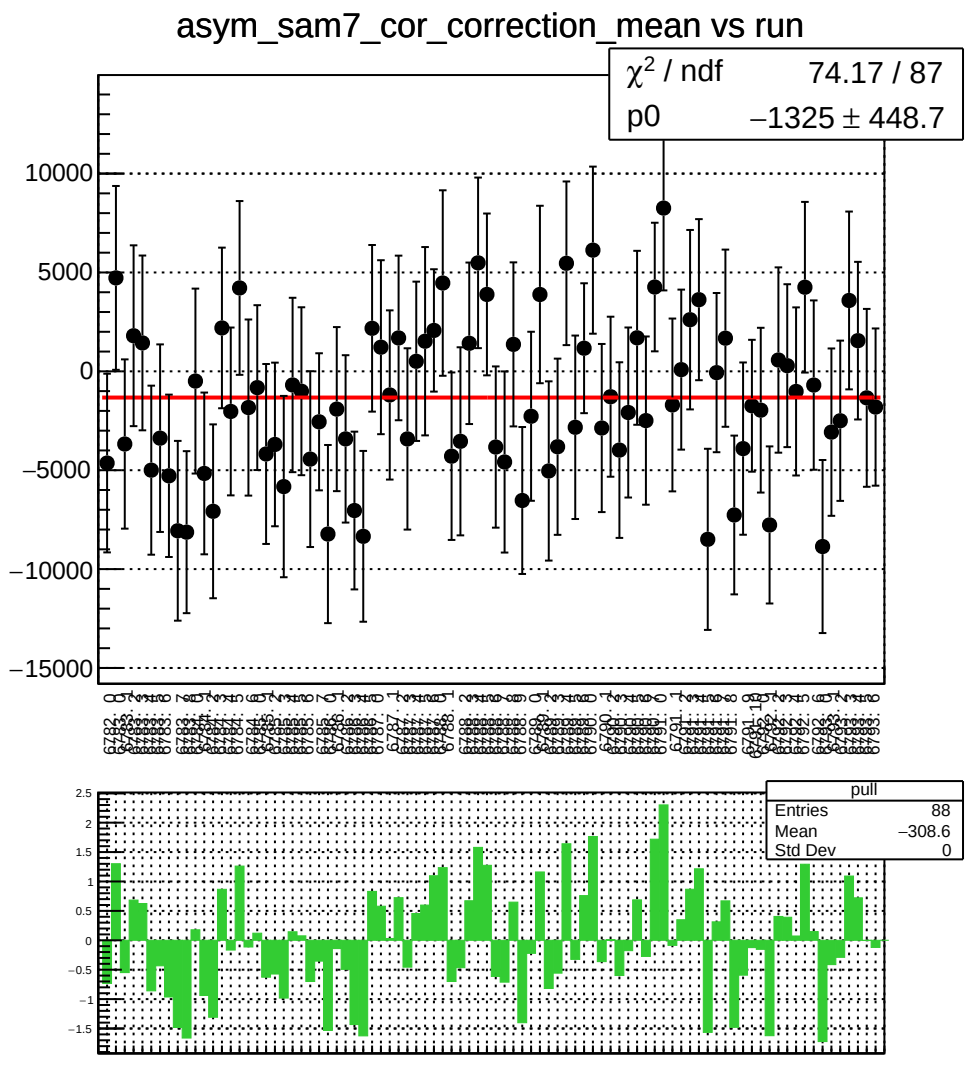

pull1D
Entries 88
Mean −0.01091
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

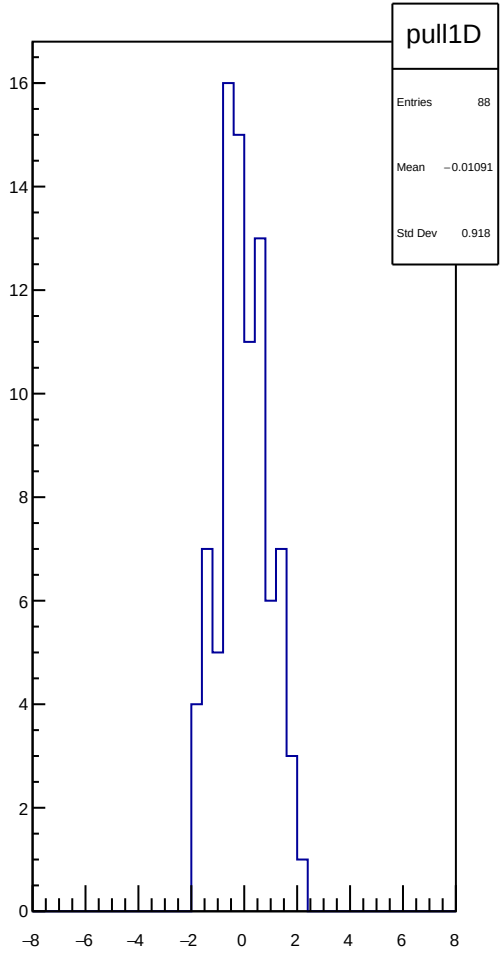

asym_sam7_reg_correction_rms vs run
χ² / ndf 3579 / 87
p0 407.7 ± 0.3173
460
450
440
430
420
410
400
390
380
370

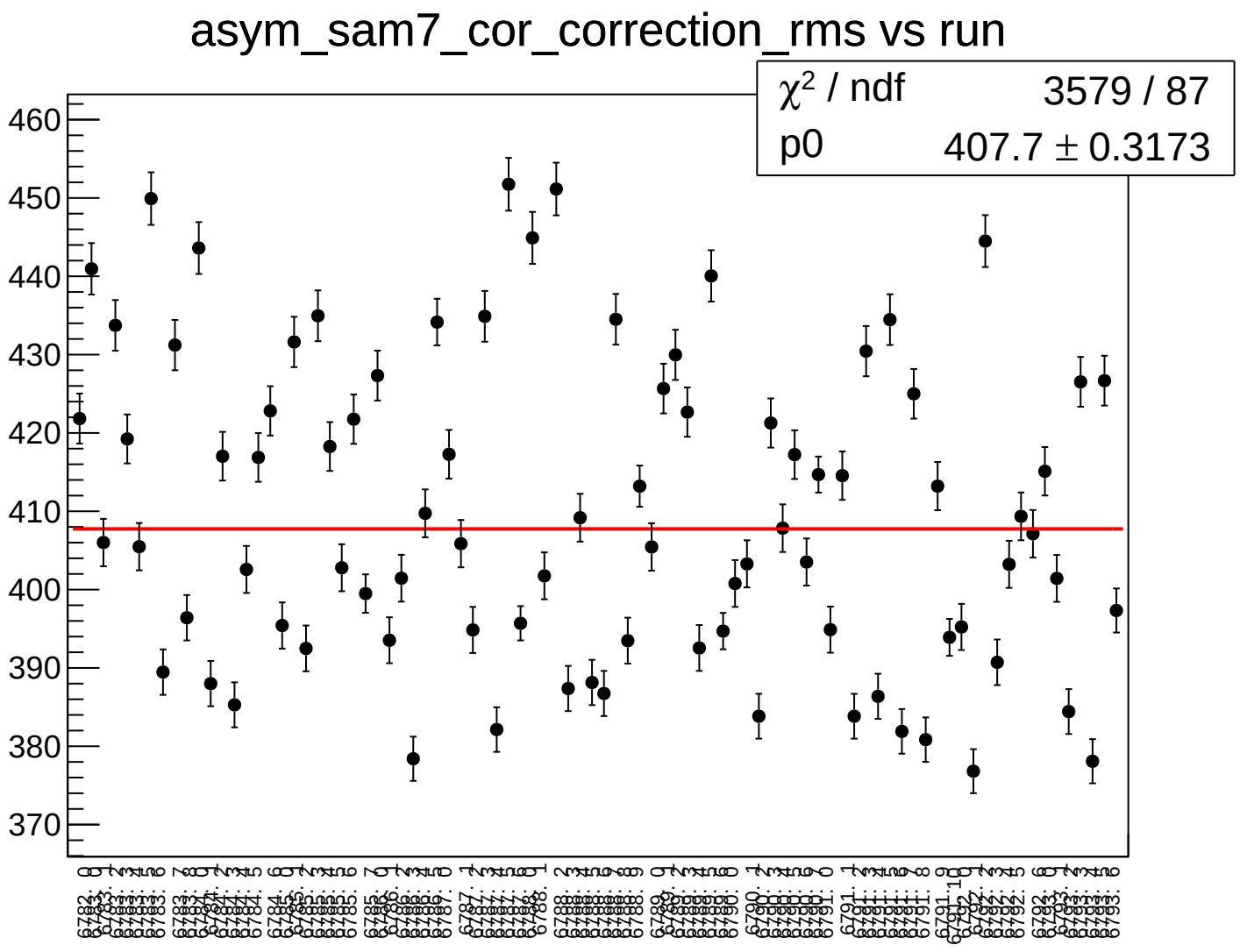

cor_asym_sam7_mean vs run
χ² / ndf 74.78 / 87
p0 230.1 ± 74.15
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1.542e+04
Std Dev 0
2
1
0
−1
−2

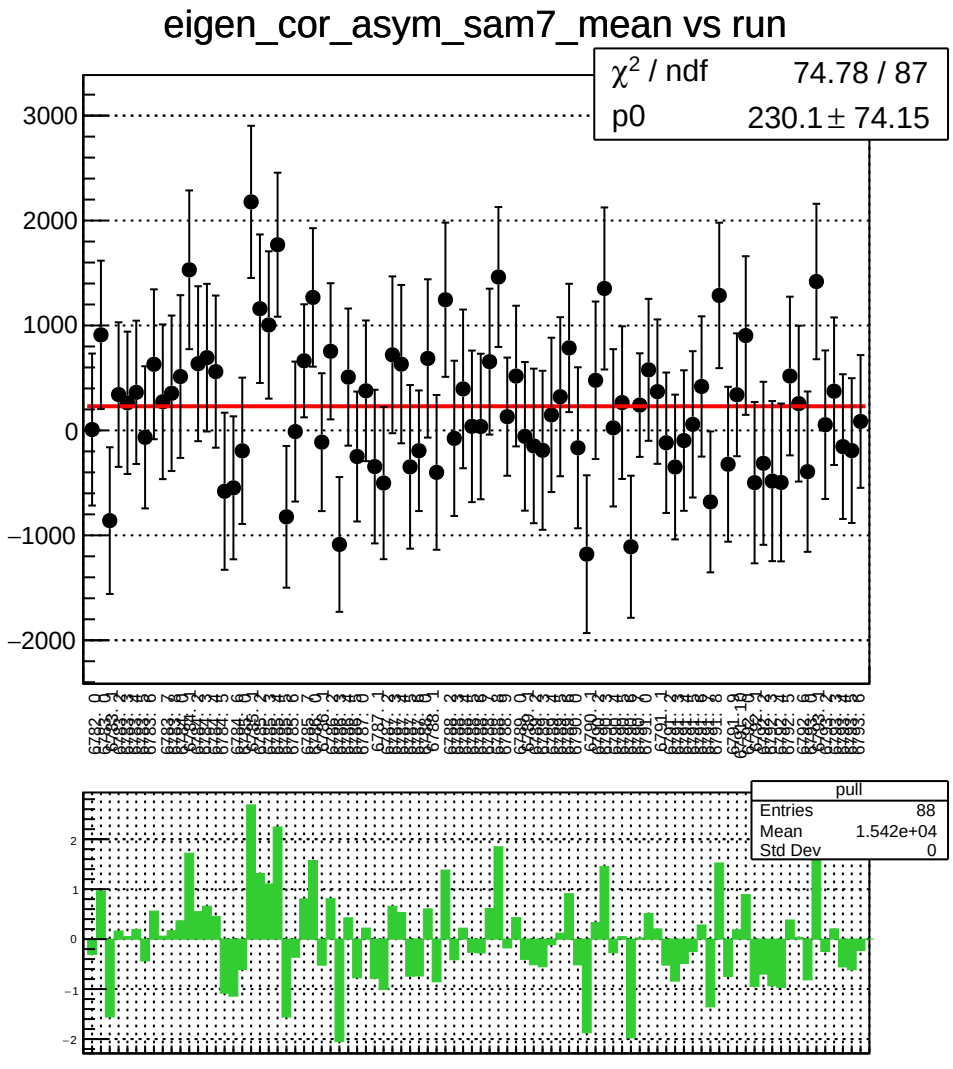

pull1D
Entries 88
Mean −0.0002534
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

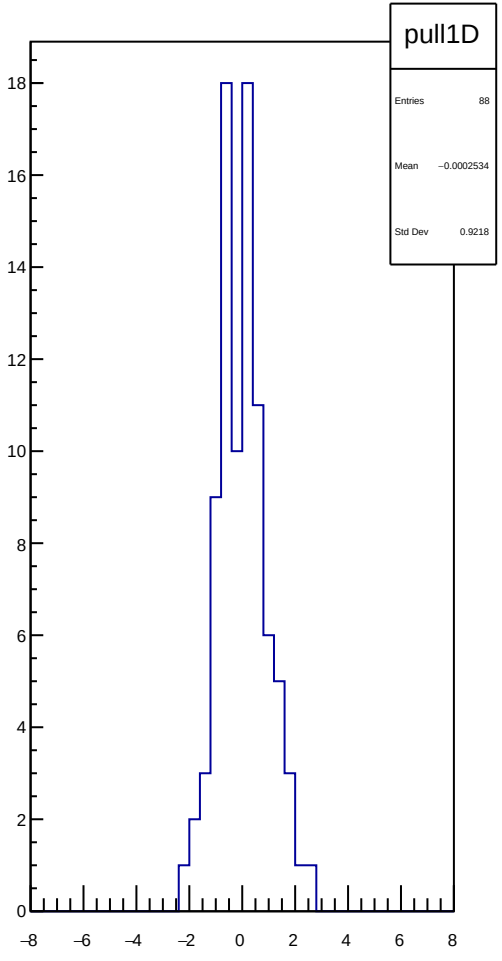

cor_asym_sam7_rms vs run
χ² / ndf 4913 / 87
p0 67.35 ± 0.05243
74
72
70
68
66
64
62
60

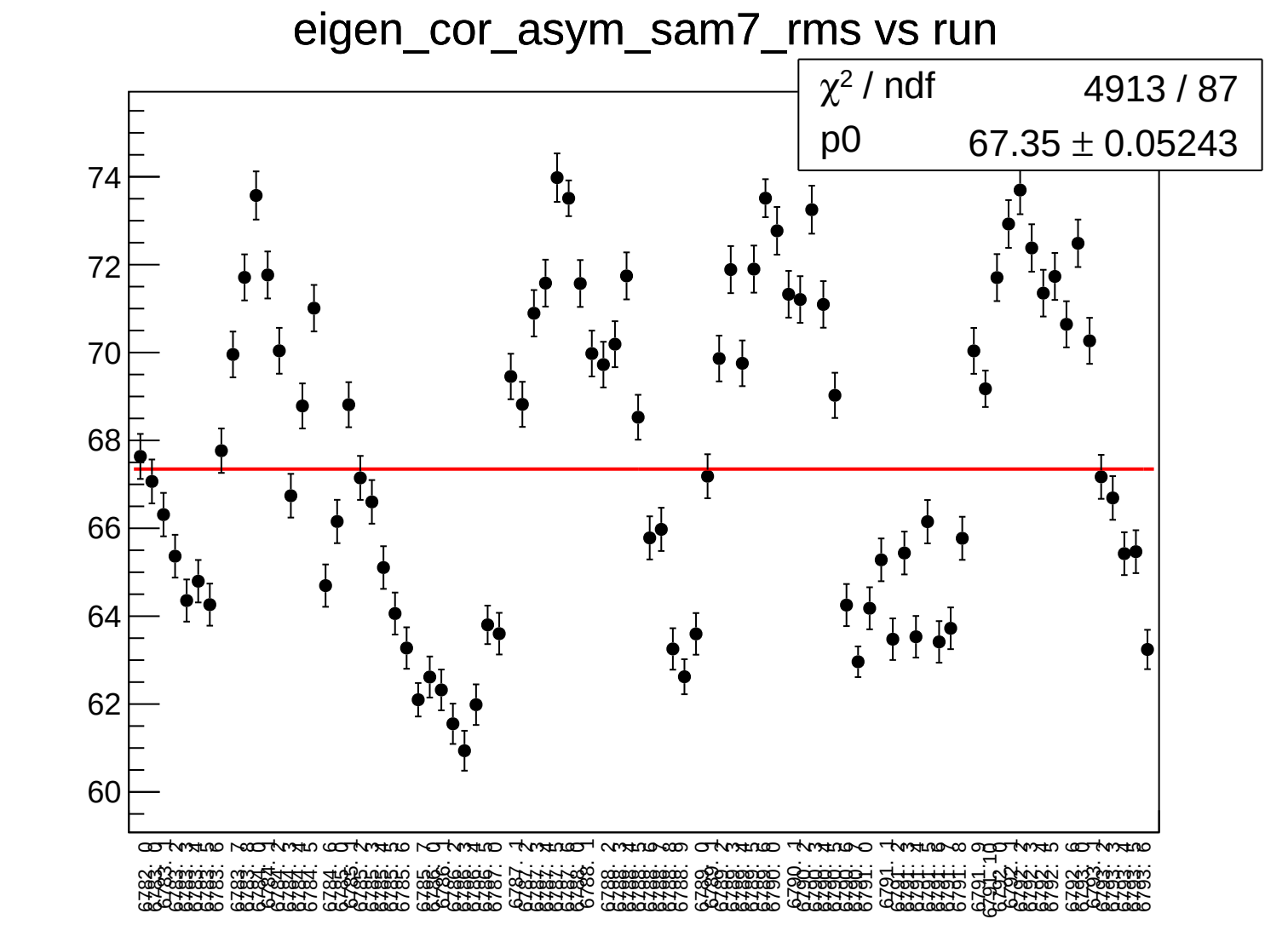

asym_sam7_cor_correction_mean vs run
χ² / ndf 74.17 / 87
p0 −1325 ± 448.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −308.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

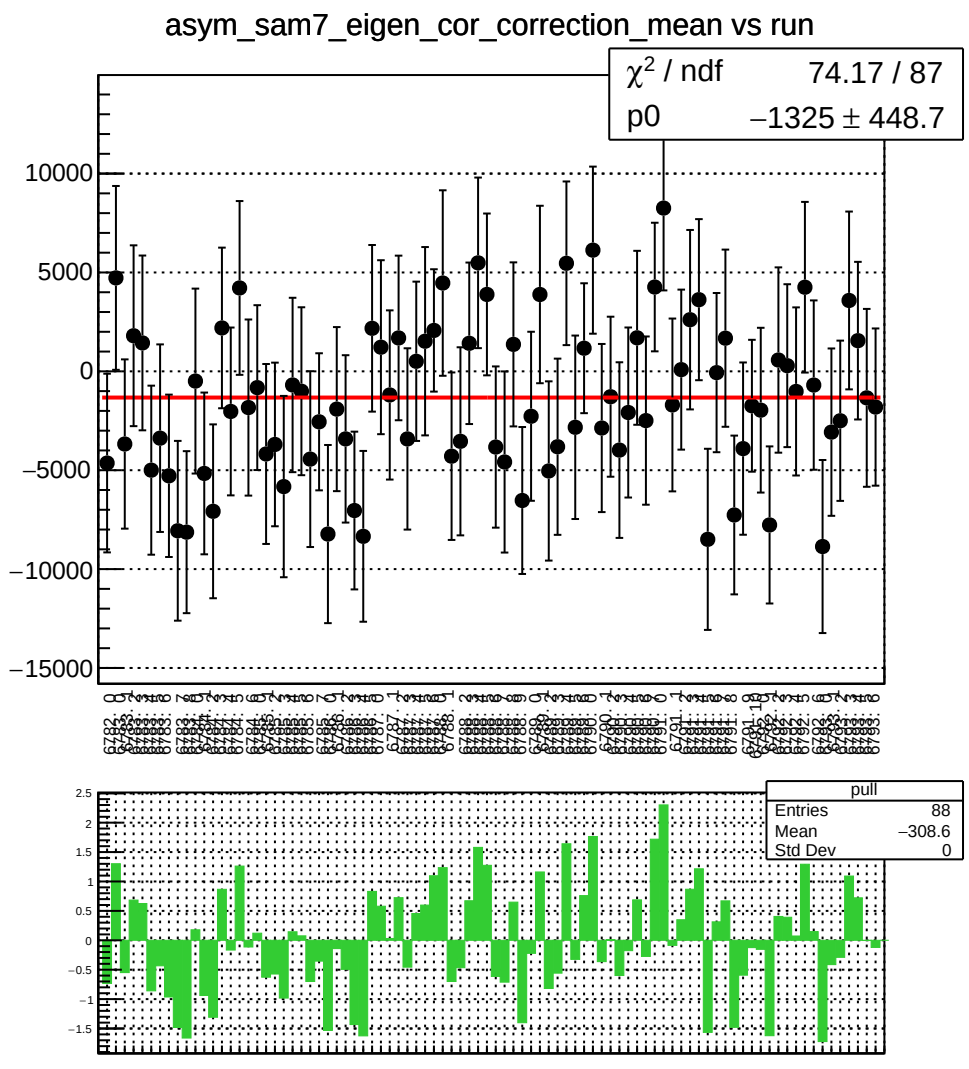

pull1D
Entries 88
Mean −0.01091
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

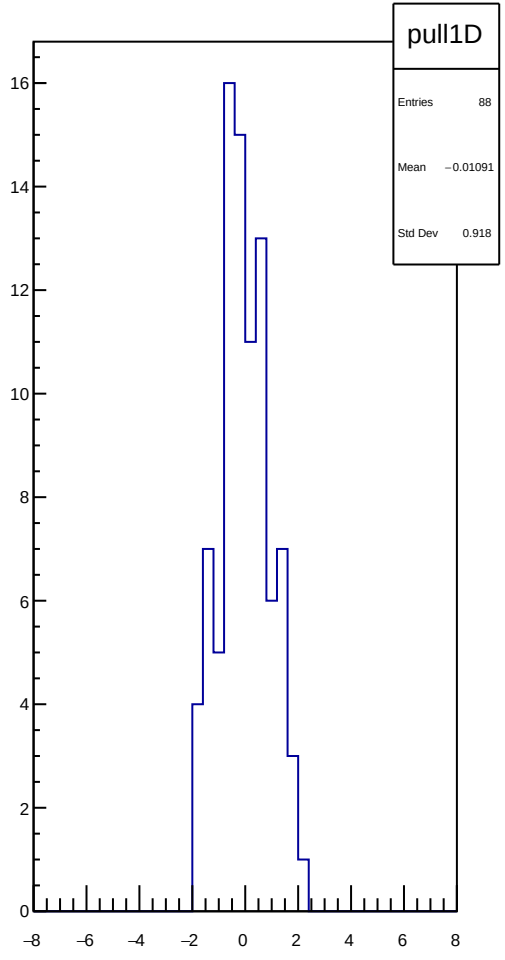

asym_sam7_cor_correction_rms vs run
χ² / ndf 3579 / 87
p0 407.7 ± 0.3173
460
450
440
430
420
410
400
390
380
370

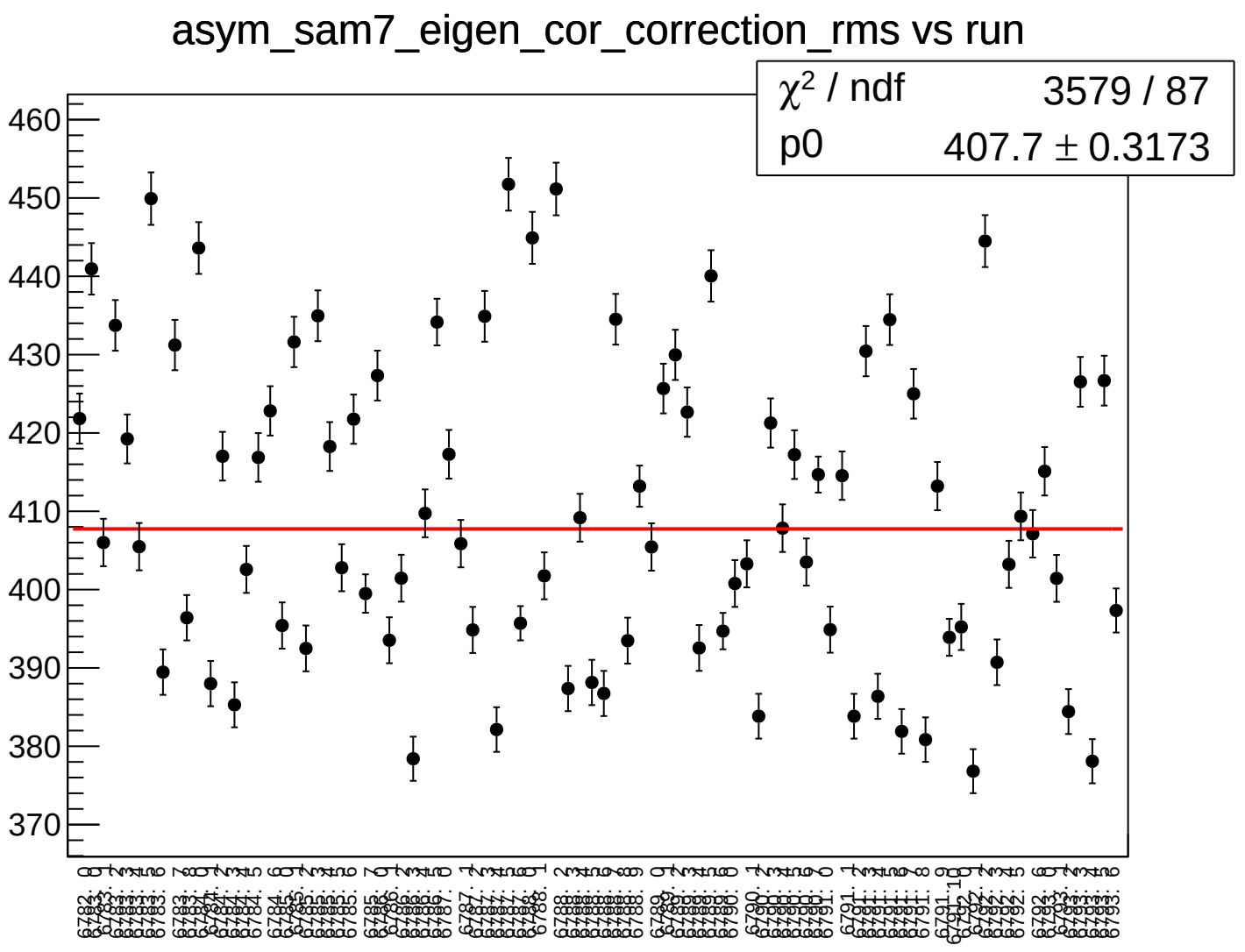

eigen_cor_asym_sam7_mean vs run
χ^2 / ndf 74.78 / 87
p0 230.1 ± 74.15
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 1.542e+04
Std Dev 0
2
1
0
−1
−2

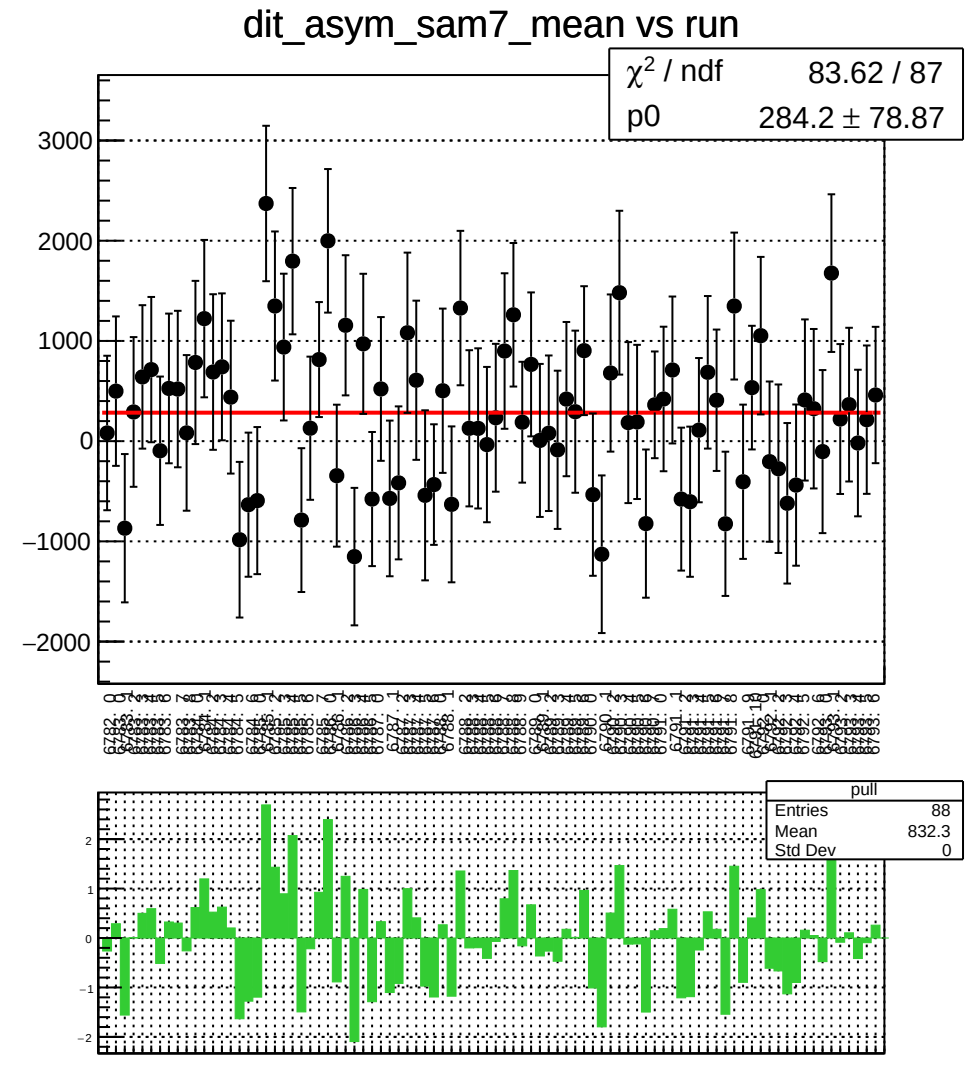

pull1D
Entries 88
Mean −0.0002534
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

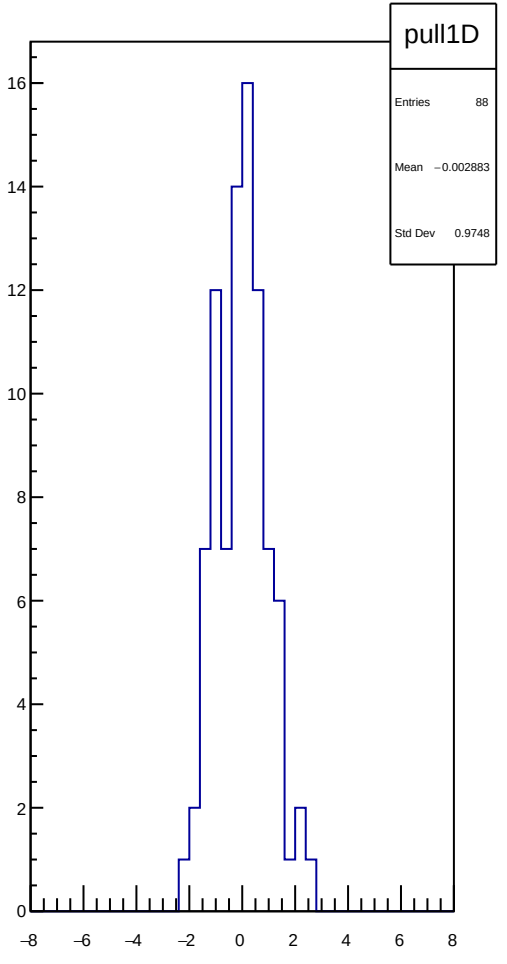

eigen_cor_asym_sam7_rms vs run
χ² / ndf 4913 / 87
p0 67.35 ± 0.05243
74
72
70
68
66
64
62
60

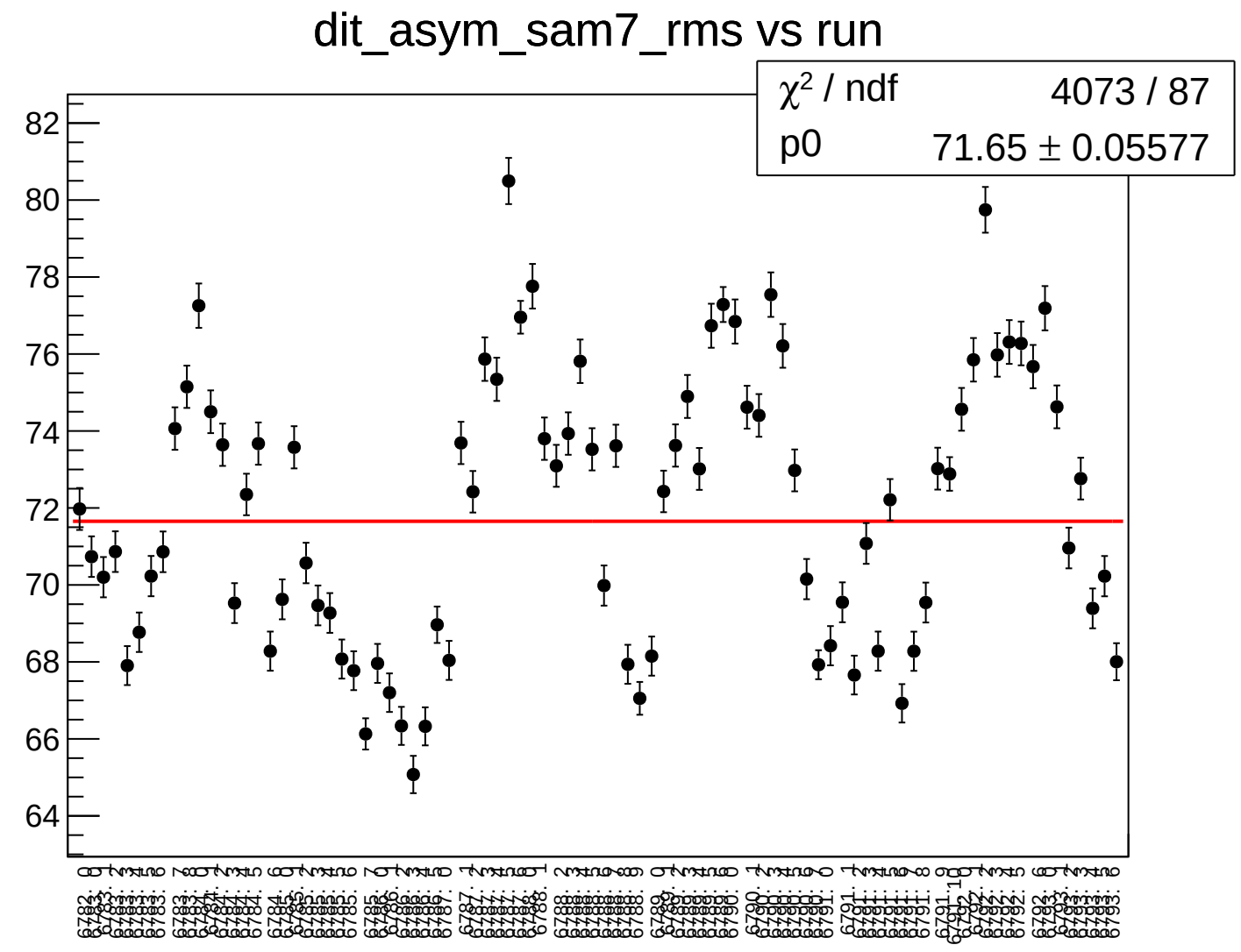

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 74.17 / 87
p0 −1325 ± 448.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −308.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

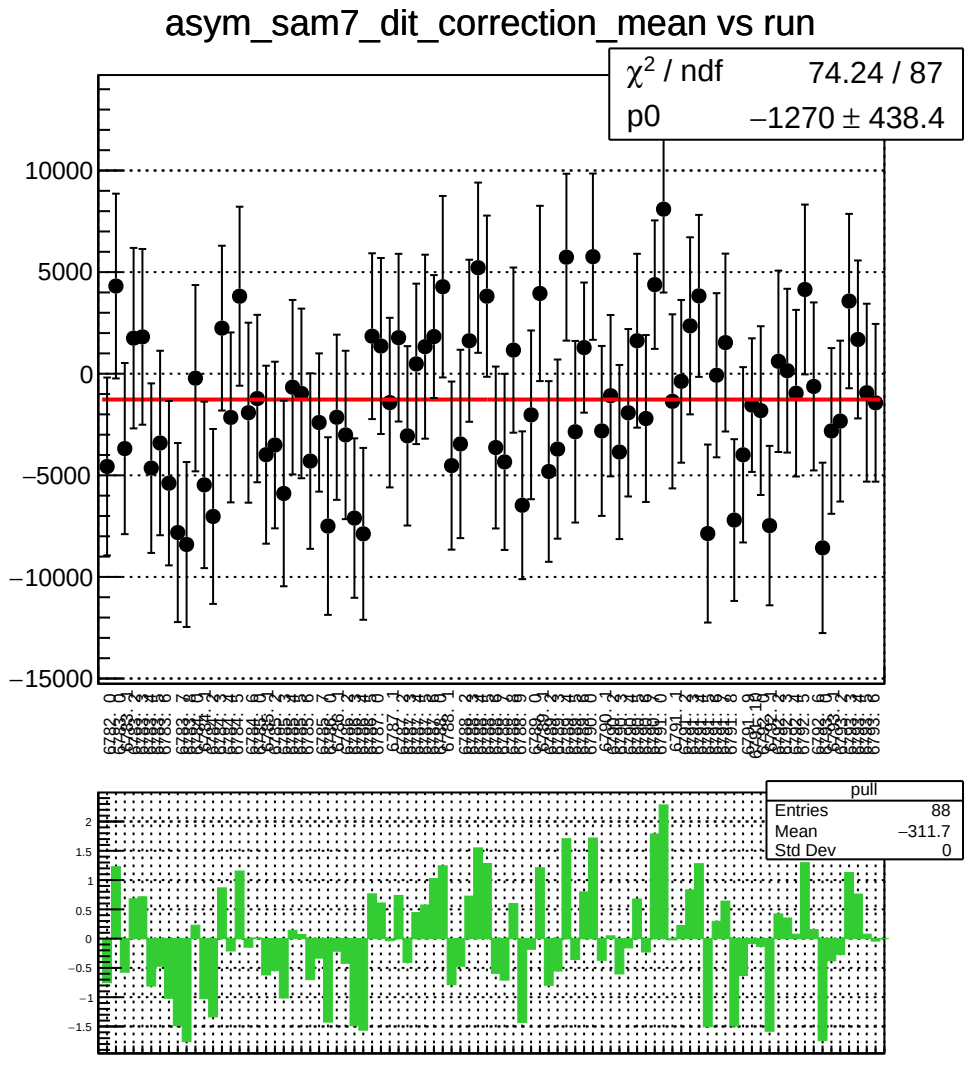

pull1D
Entries 88
Mean −0.01091
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

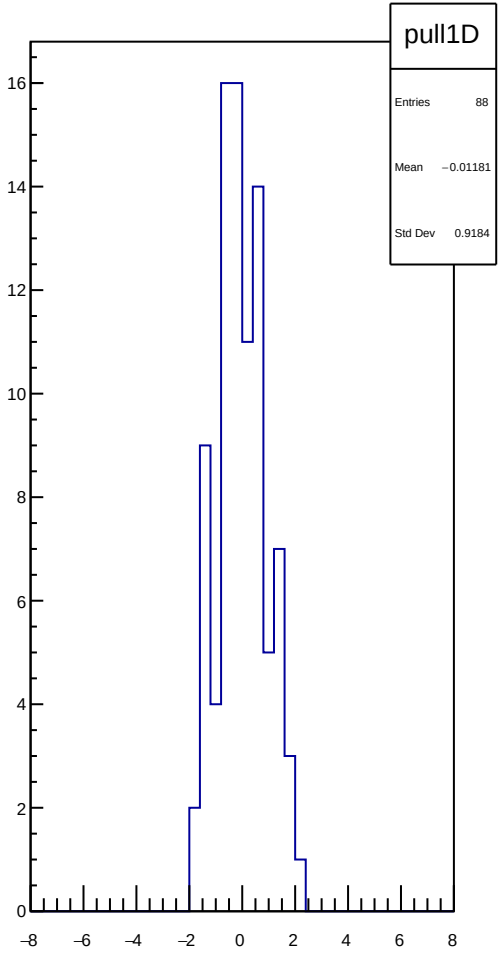

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3579 / 87
p0 407.7 ± 0.3173
460
450
440
430
420
410
400
390
380
370

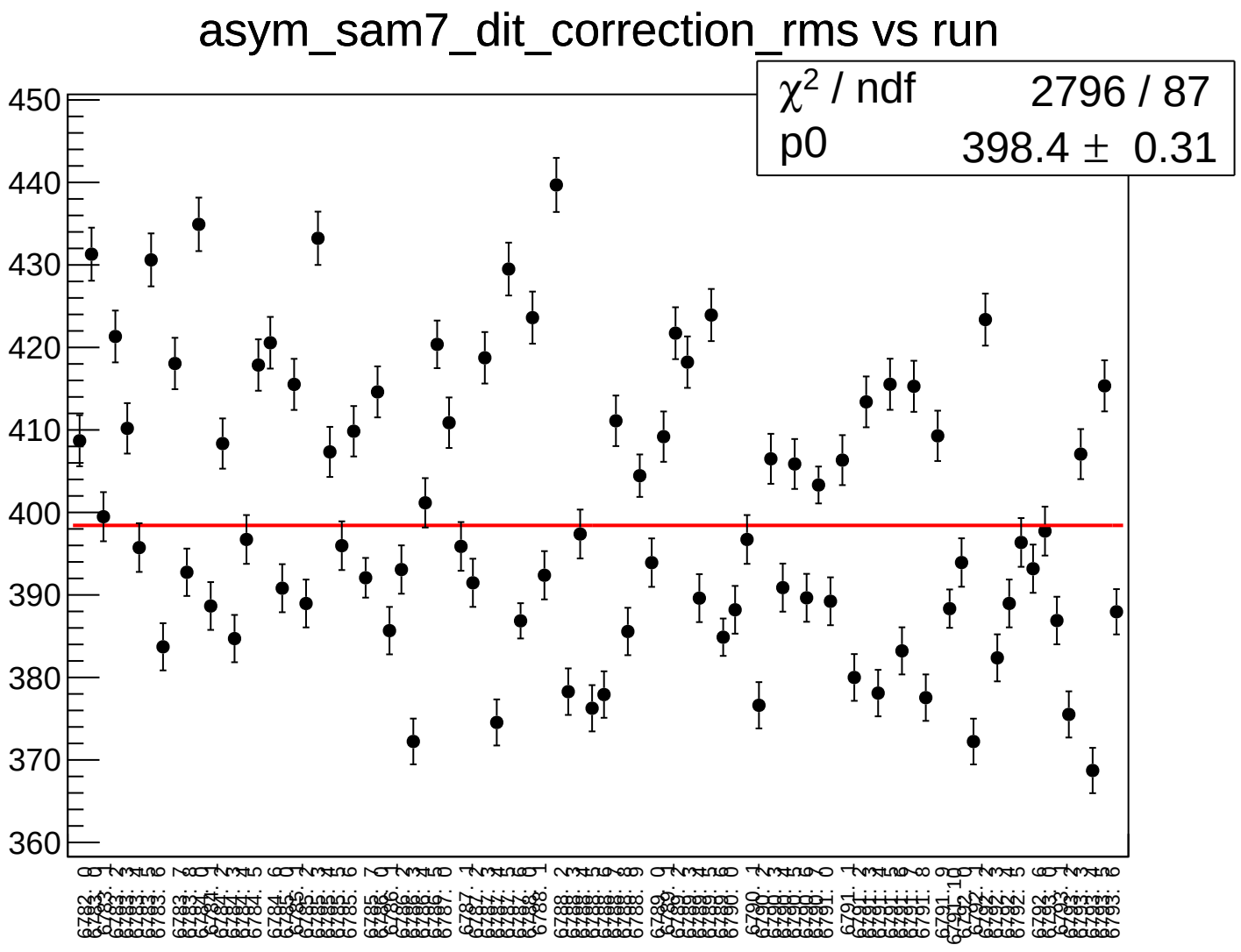

dit_asym_sam7_mean vs run
χ² / ndf 83.62 / 87
p0 284.2 ± 78.87
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 832.3
Std Dev 0
2
1
0
−1
−2

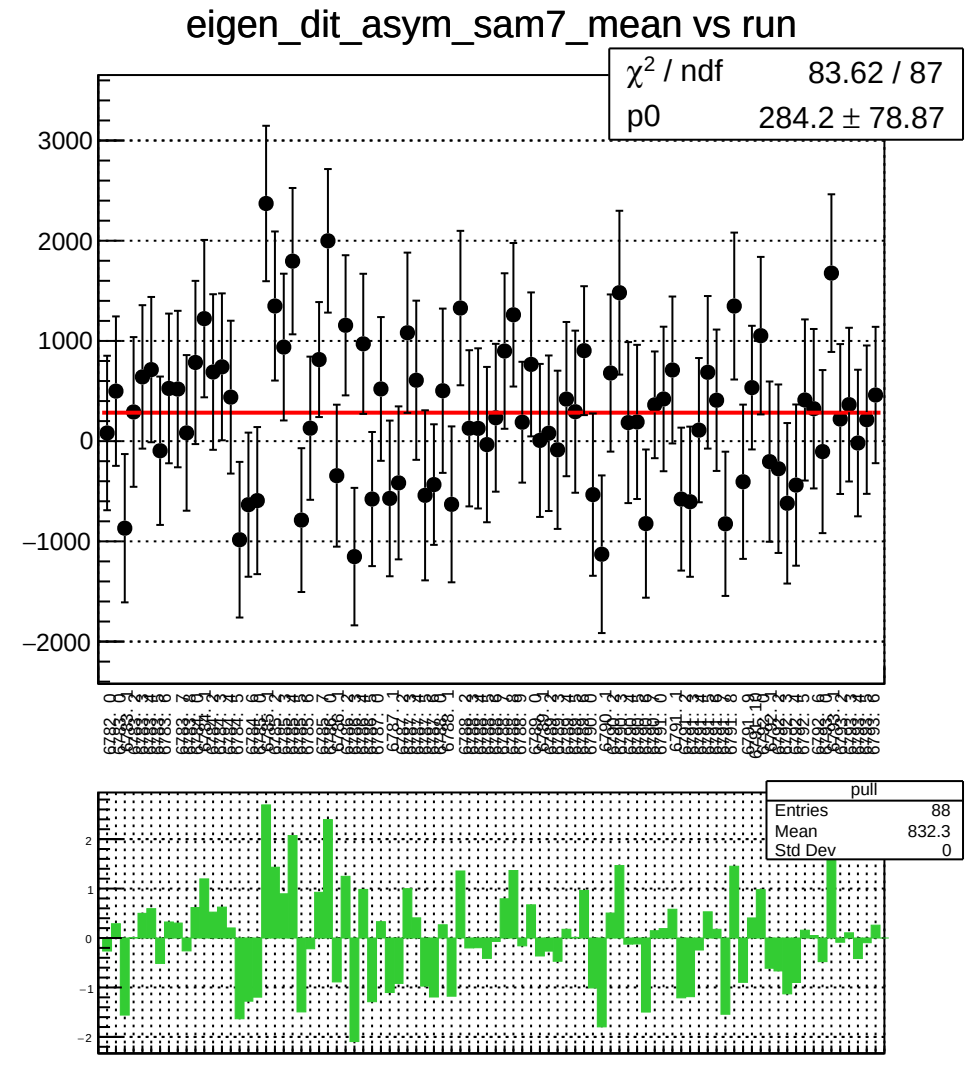

pull1D
Entries 88
Mean −0.002883
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

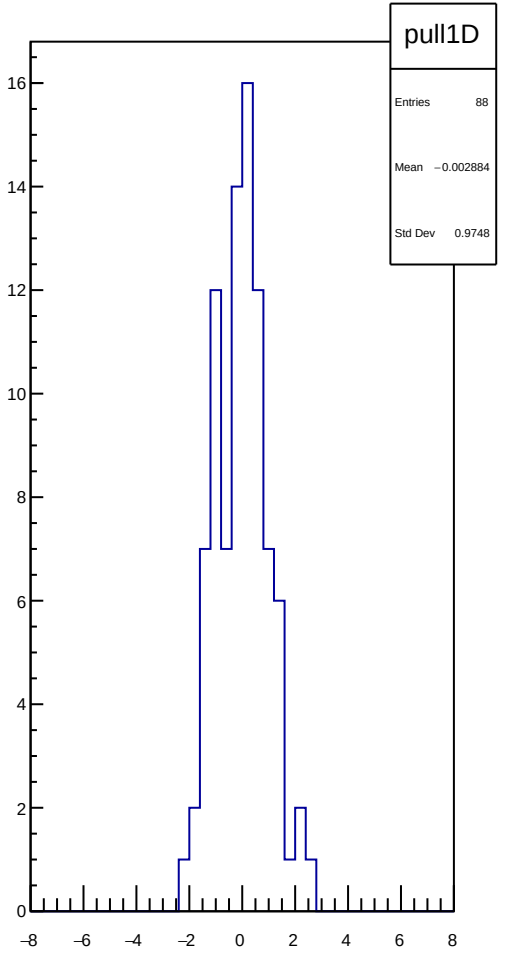

dit_asym_sam7_rms vs run
χ² / ndf 4073 / 87
p0 71.65 ± 0.05577
82
80
78
76
74
72
70
68
66
64

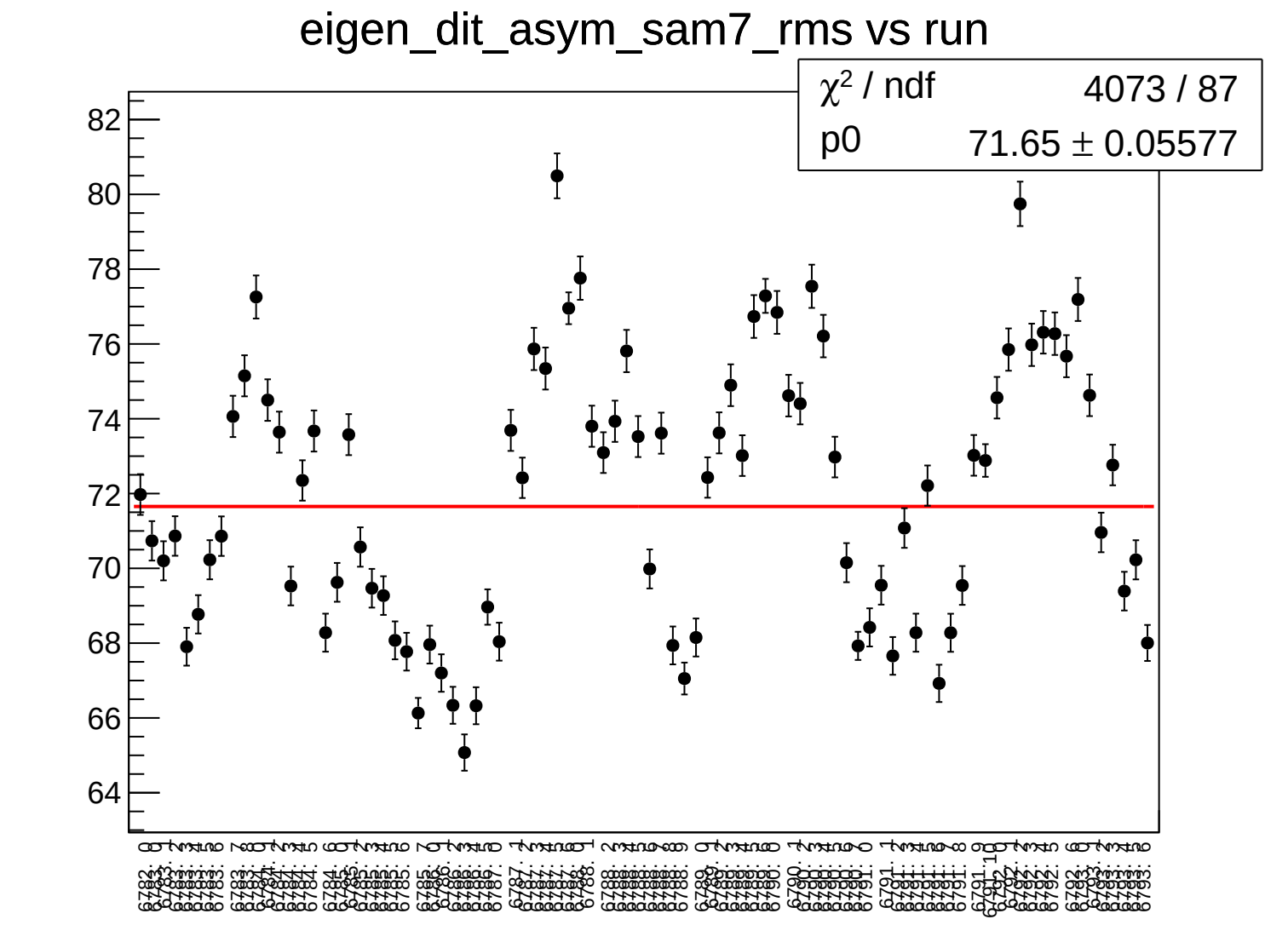

asym_sam7_dit_correction_mean vs run
χ² / ndf 74.24 / 87
p0 −1270 ± 438.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −311.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

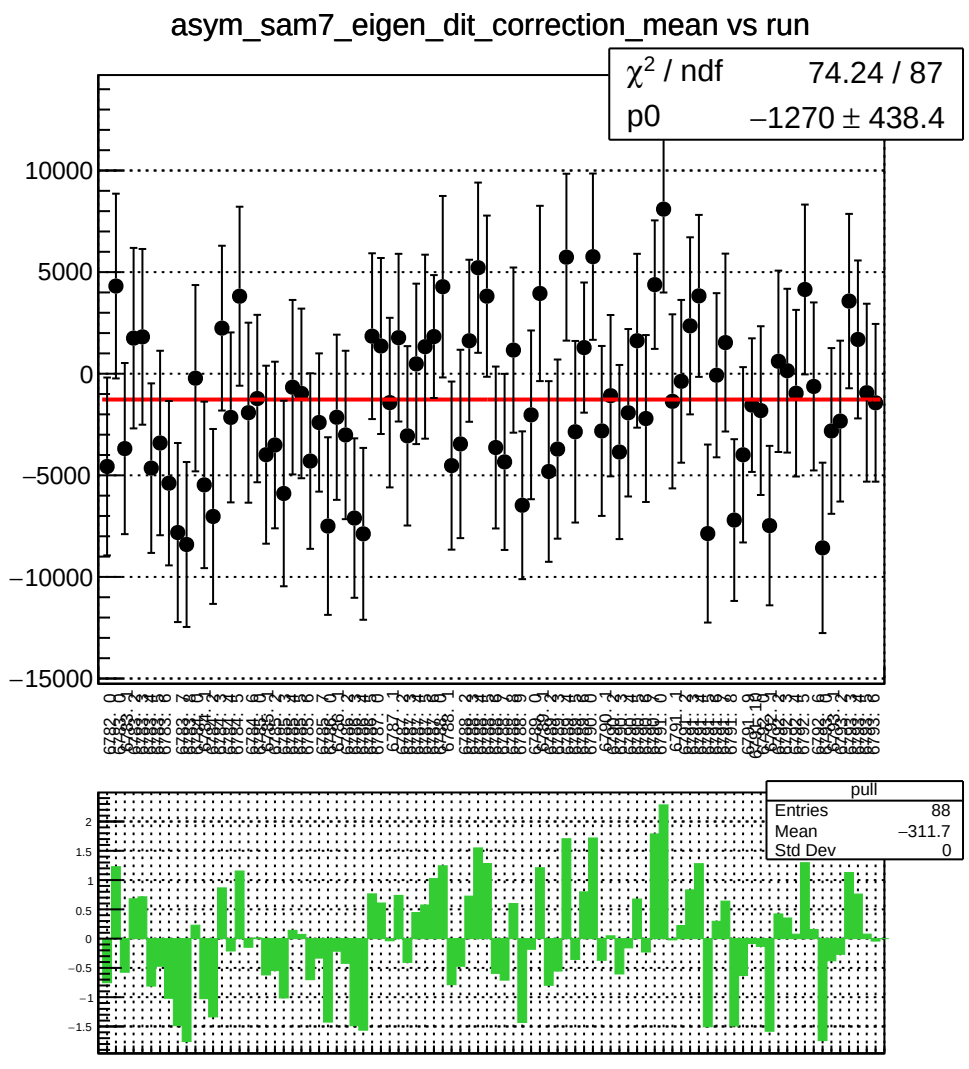

pull1D
Entries 88
Mean −0.01181
Std Dev 0.9184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

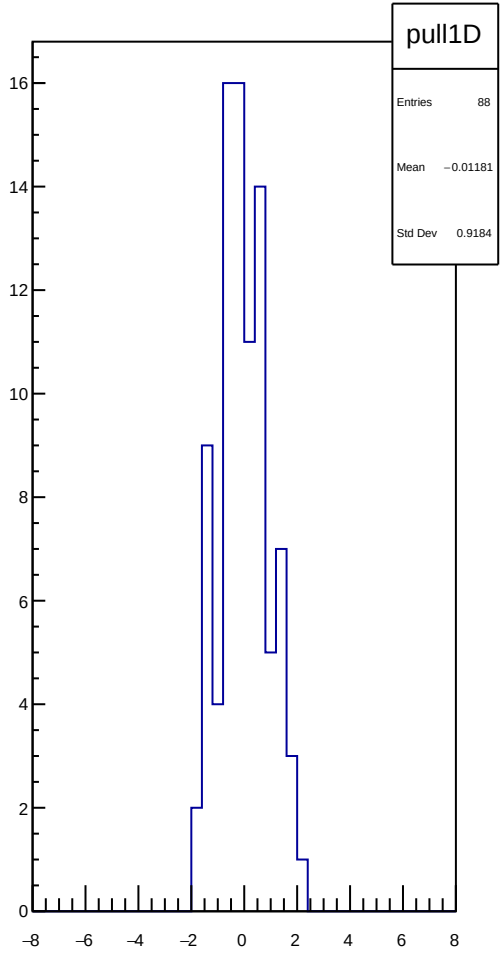

asym_sam7_dit_correction_rms vs run
χ² / ndf 2796 / 87
p0 398.4 ± 0.31
450
440
430
420
410
400
390
380
370
360

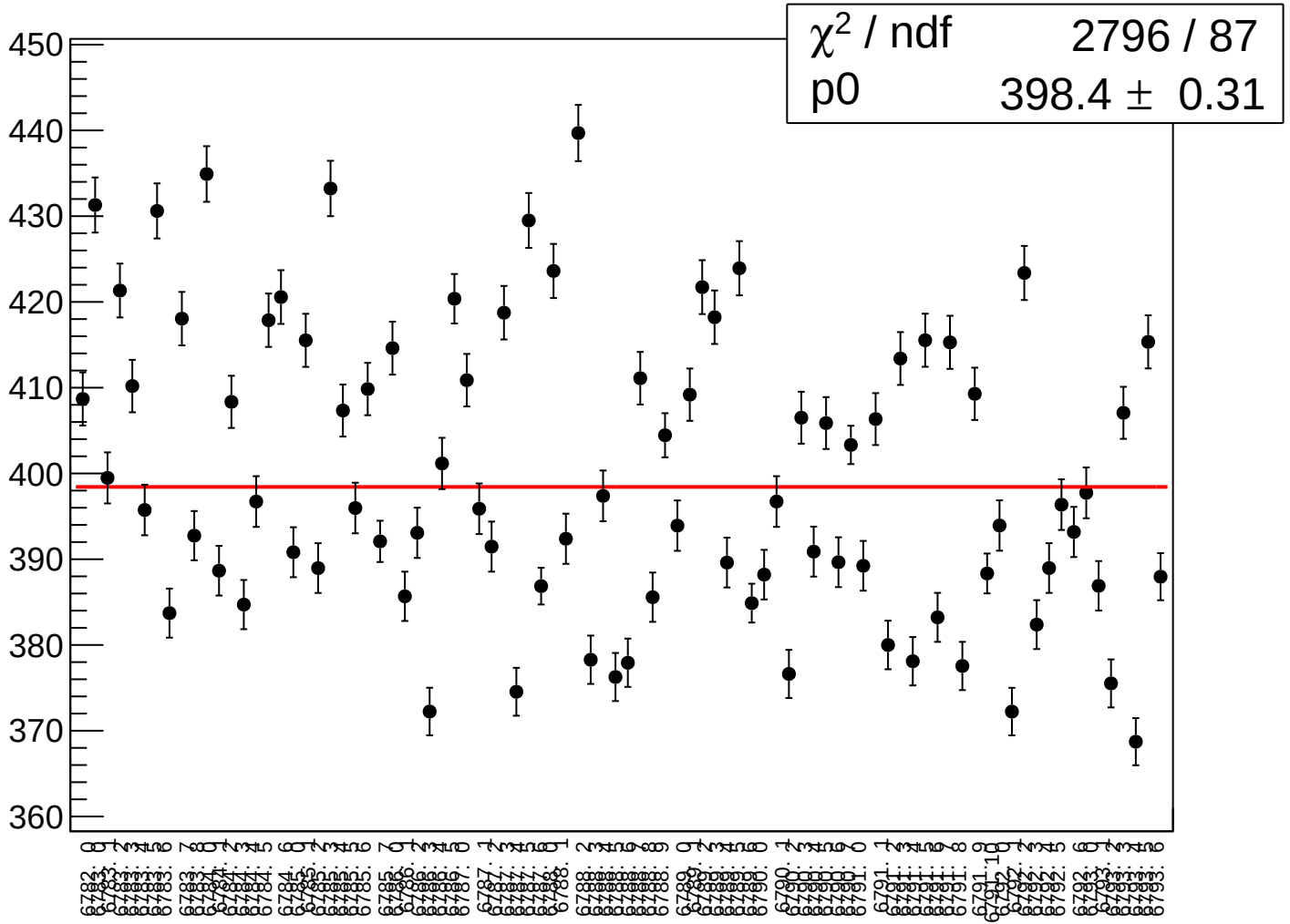

eigen_dit_asym_sam7_mean vs run
χ² / ndf 83.62 / 87
p0 284.2 ± 78.87
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 832.3
Std Dev 0
2
1
0
−1
−2

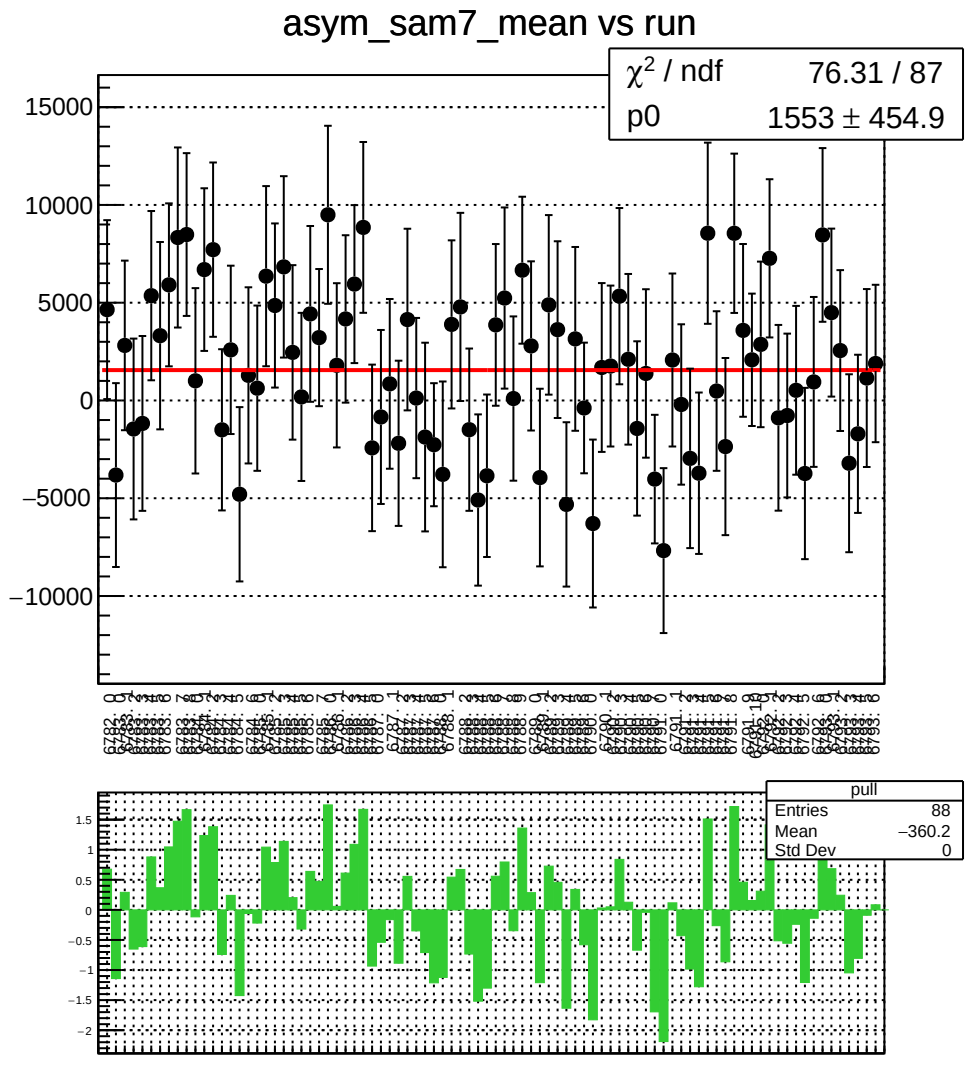

pull1D
Entries 88
Mean −0.002884
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

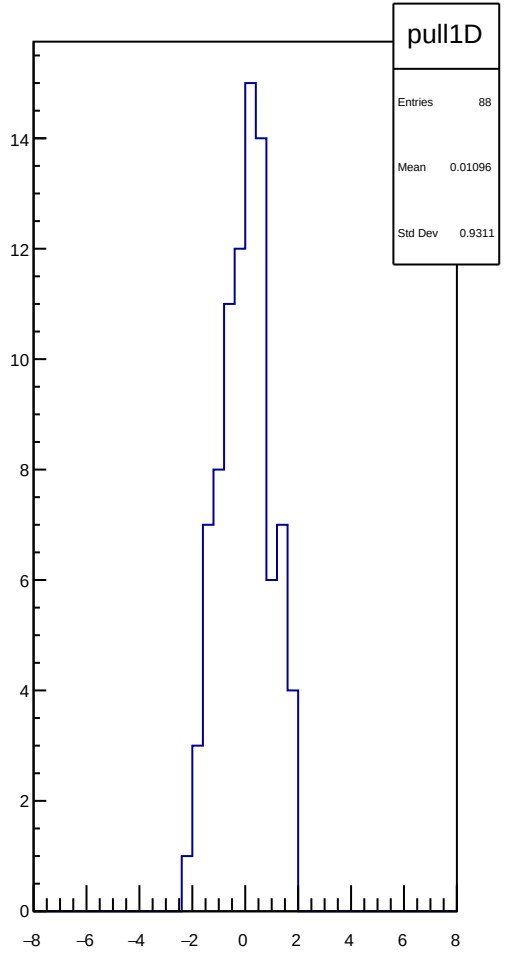

eigen_dit_asym_sam7_rms vs run
χ² / ndf 4073 / 87
p0 71.65 ± 0.05577
82
80
78
76
74
72
70
68
66
64

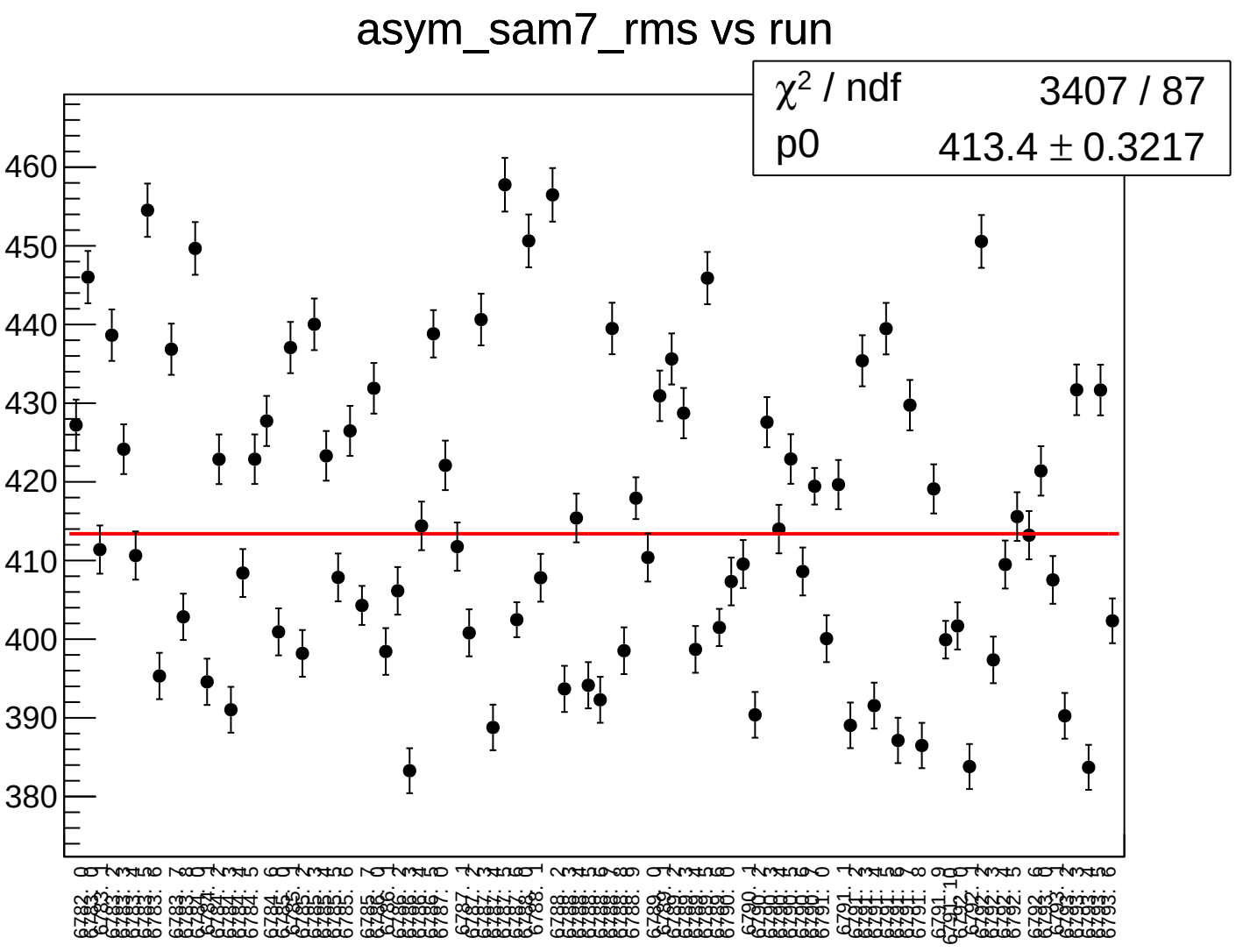

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 74.24 / 87
p0 −1270 ± 438.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −311.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

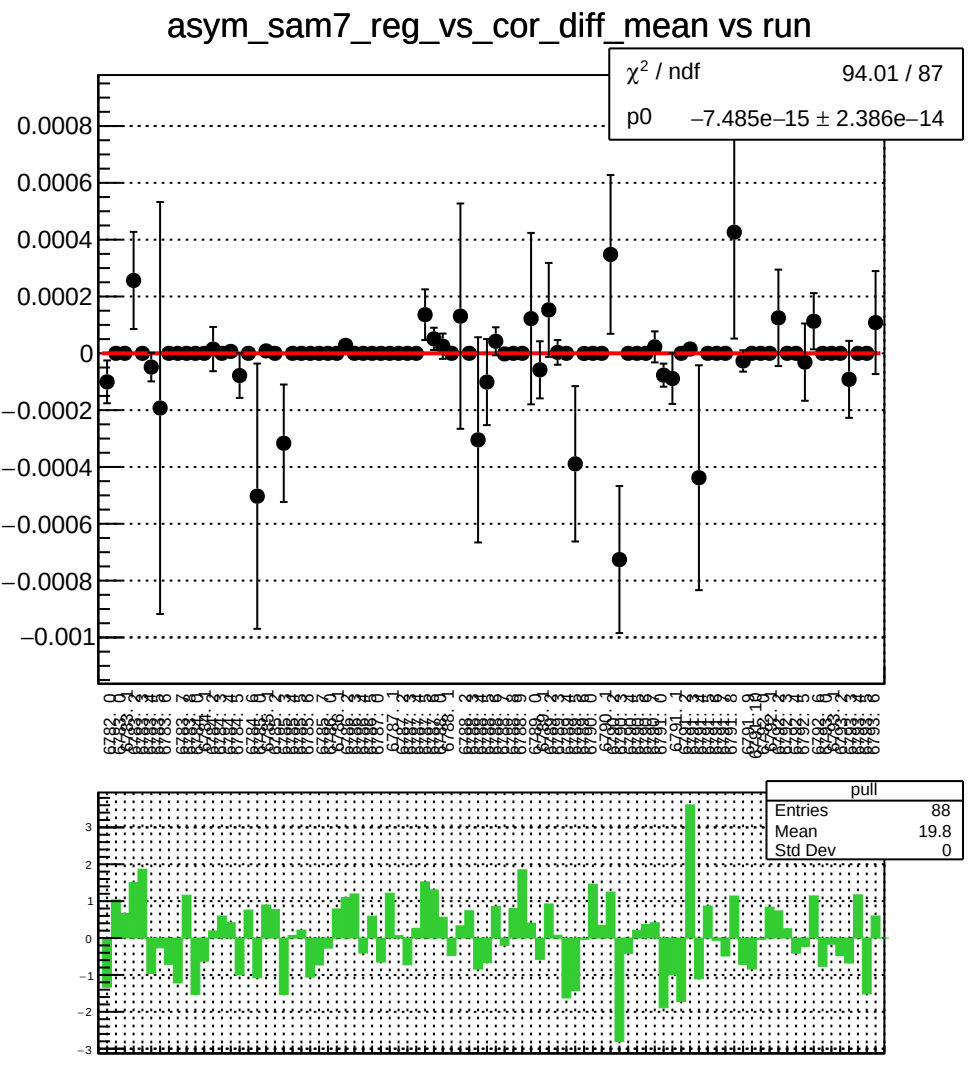

pull1D
Entries 88
Mean −0.01181
Std Dev 0.9184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

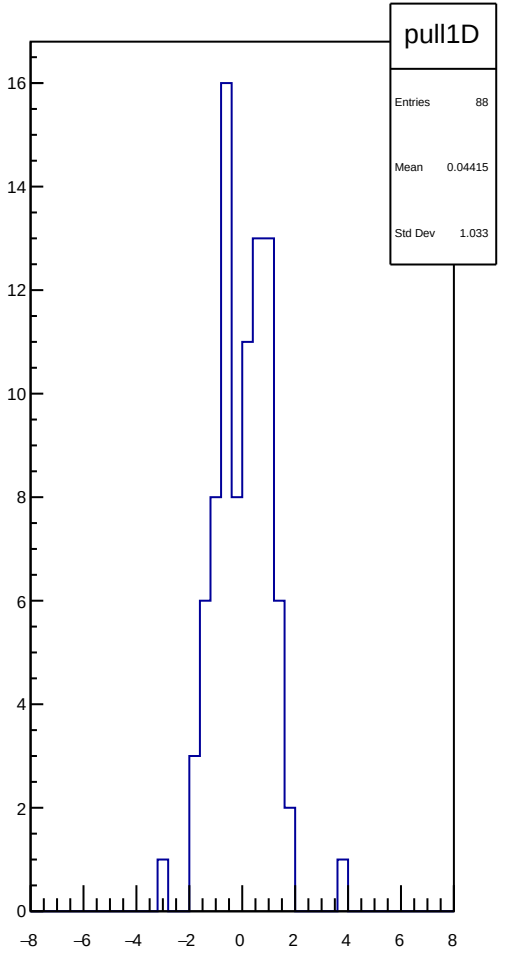

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2796 / 87
p0 398.4 ± 0.31
450
440
430
420
410
400
390
380
370
360

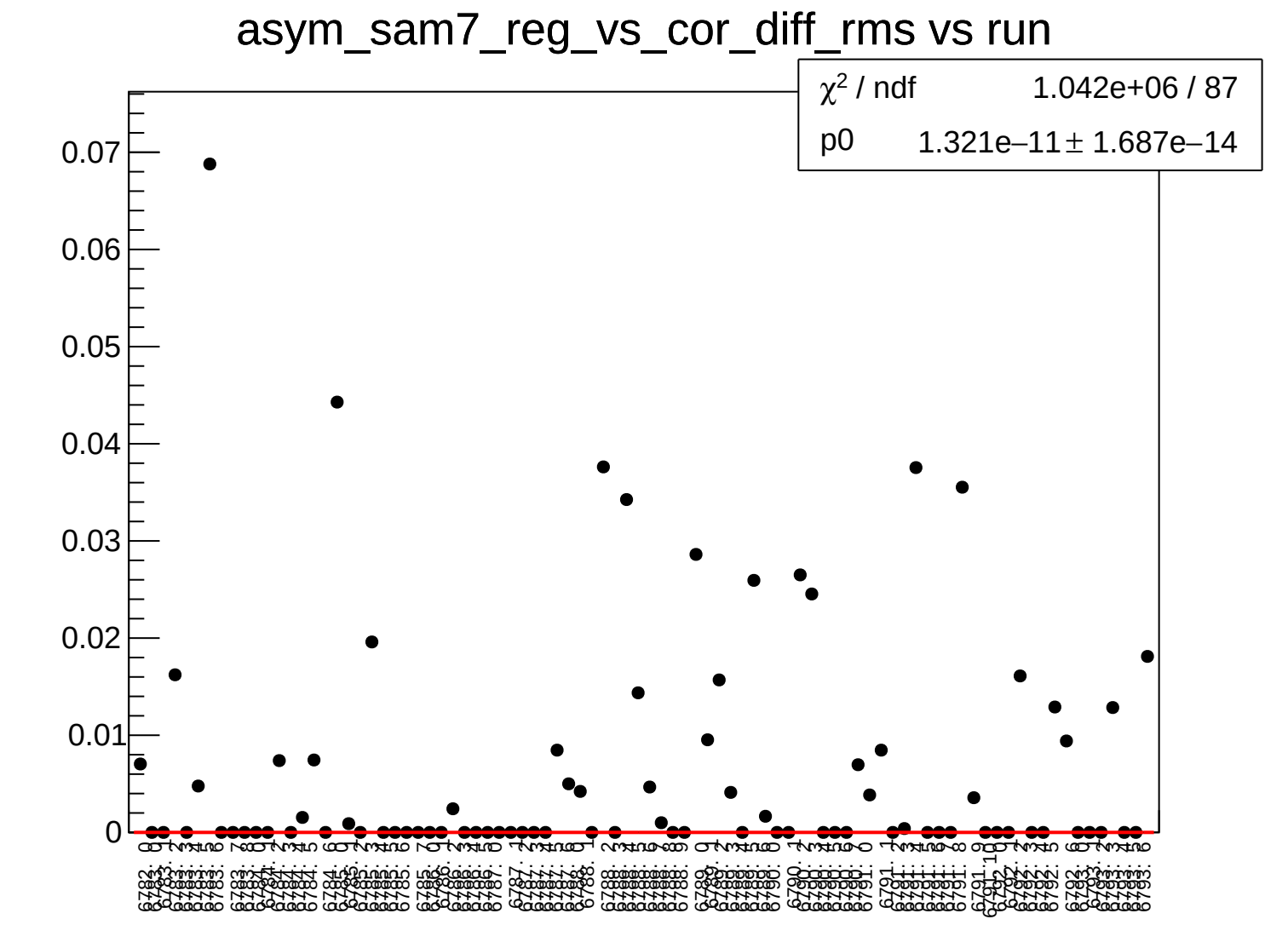

asym_sam7_mean vs run
χ² / ndf 76.31 / 87
p0 1553 ± 454.9
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −360.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

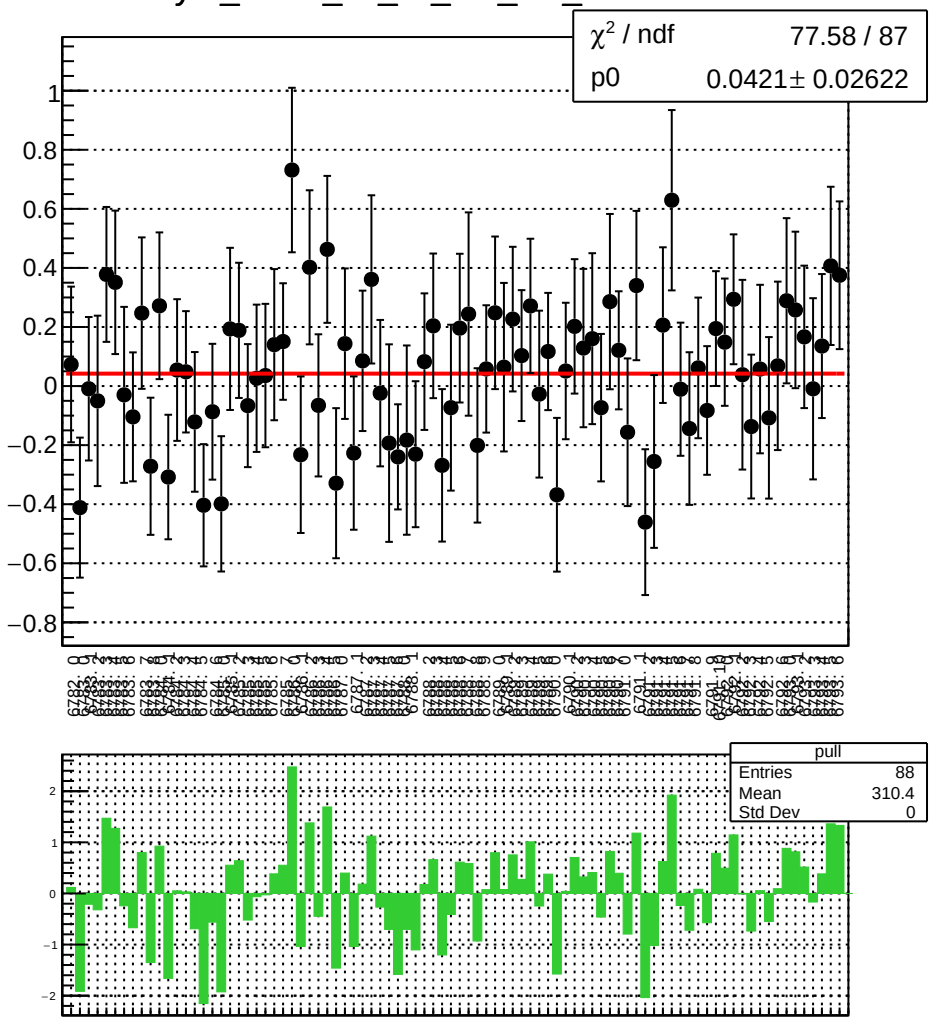

pull1D
Entries 88
Mean 0.01096
Std Dev 0.9311
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

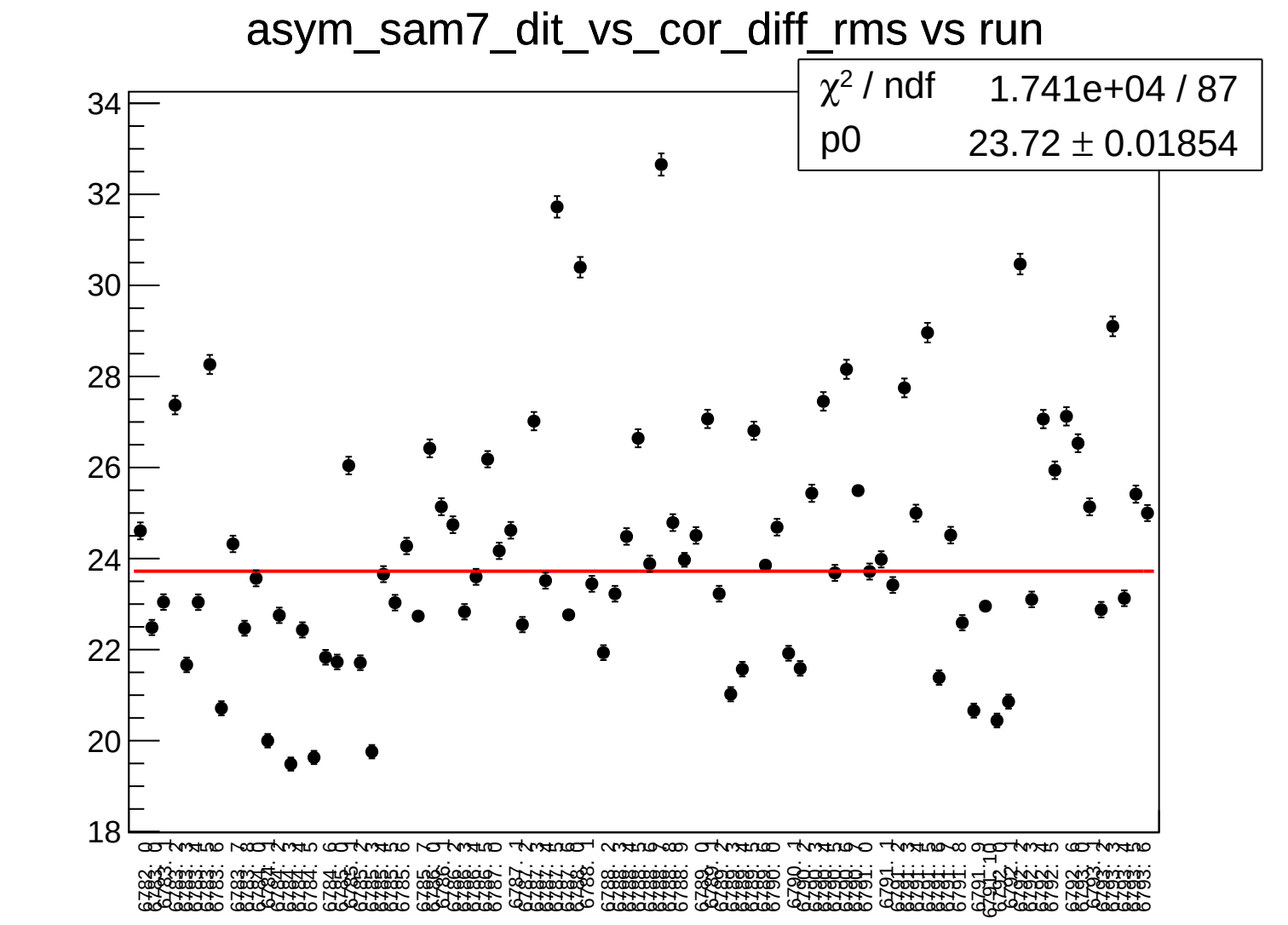

asym_sam7_rms vs run
χ² / ndf 3407 / 87
p0 413.4 ± 0.3217
460
450
440
430
420
410
400
390
380

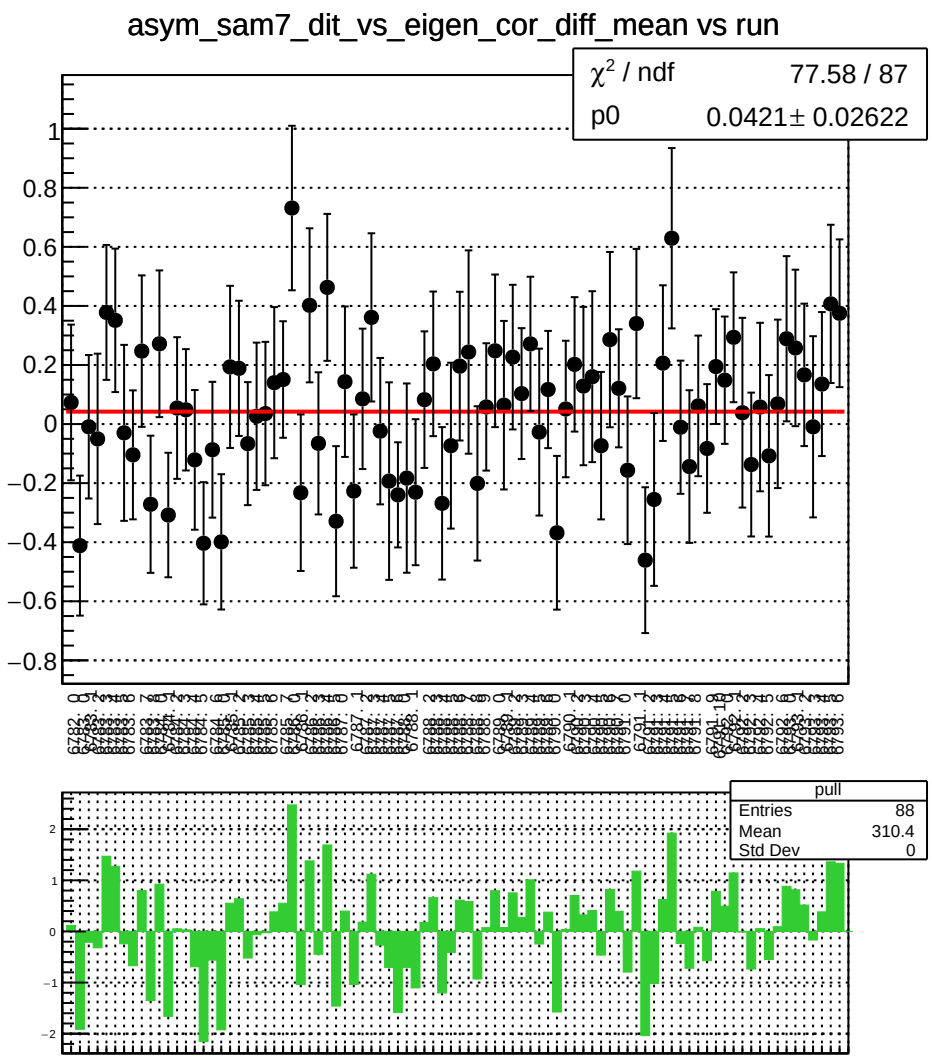

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 94.01 / 87
p0 −7.485e−15 ± 2.386e−14
pull
Entries 88
Mean 19.8
Std Dev 0

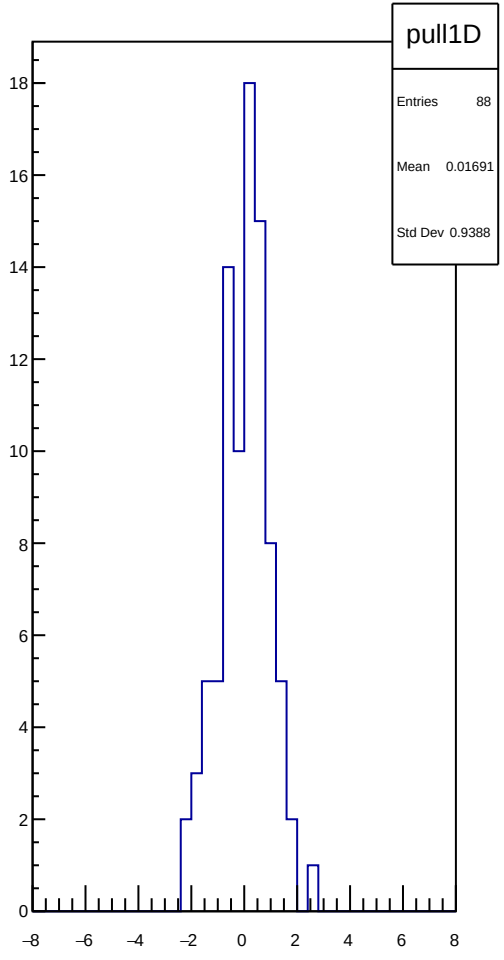

pull1D
Entries 88
Mean 0.04415
Std Dev 1.033

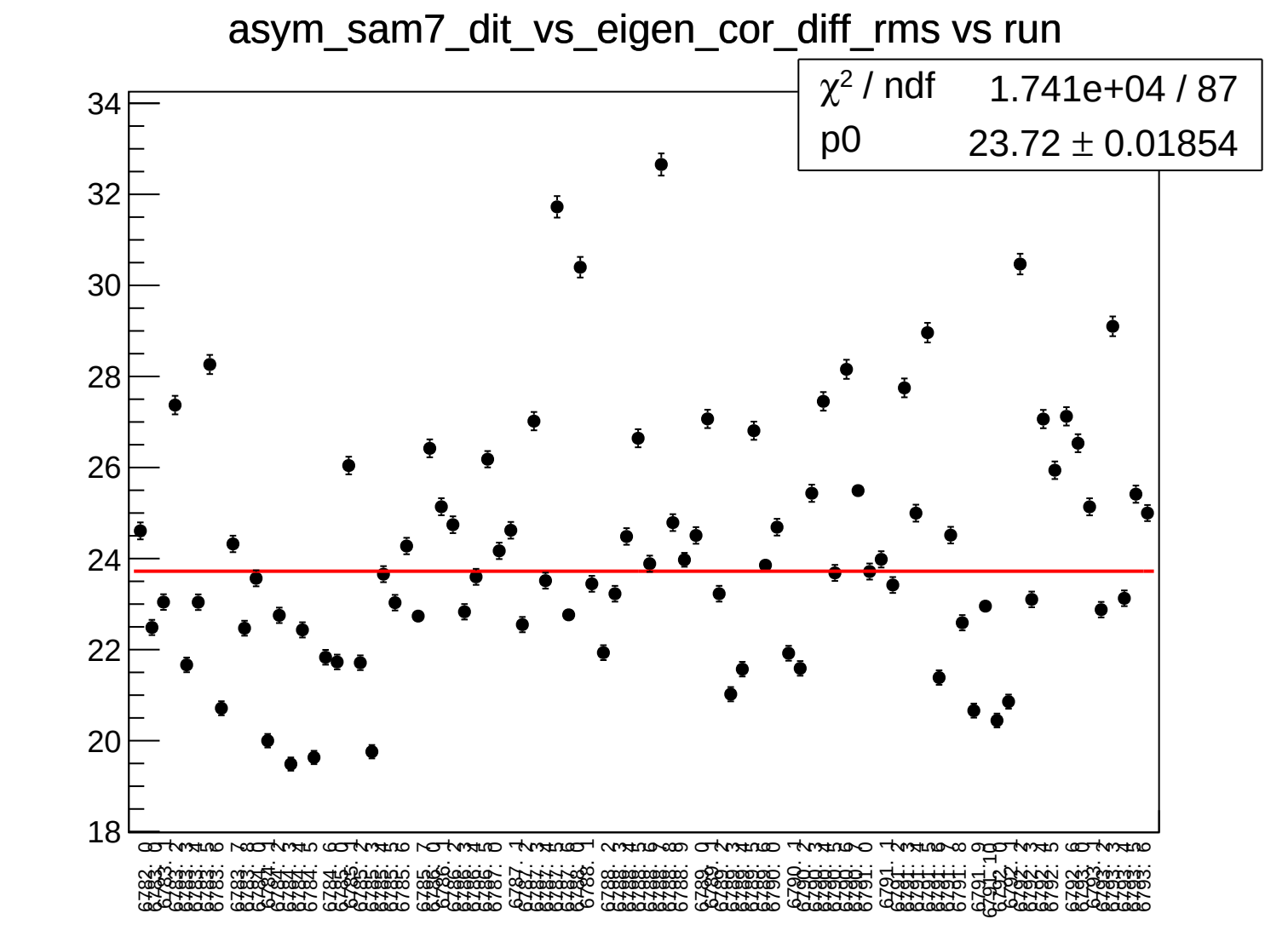

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.042e+06 / 87
p0 1.321e−11 ± 1.687e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

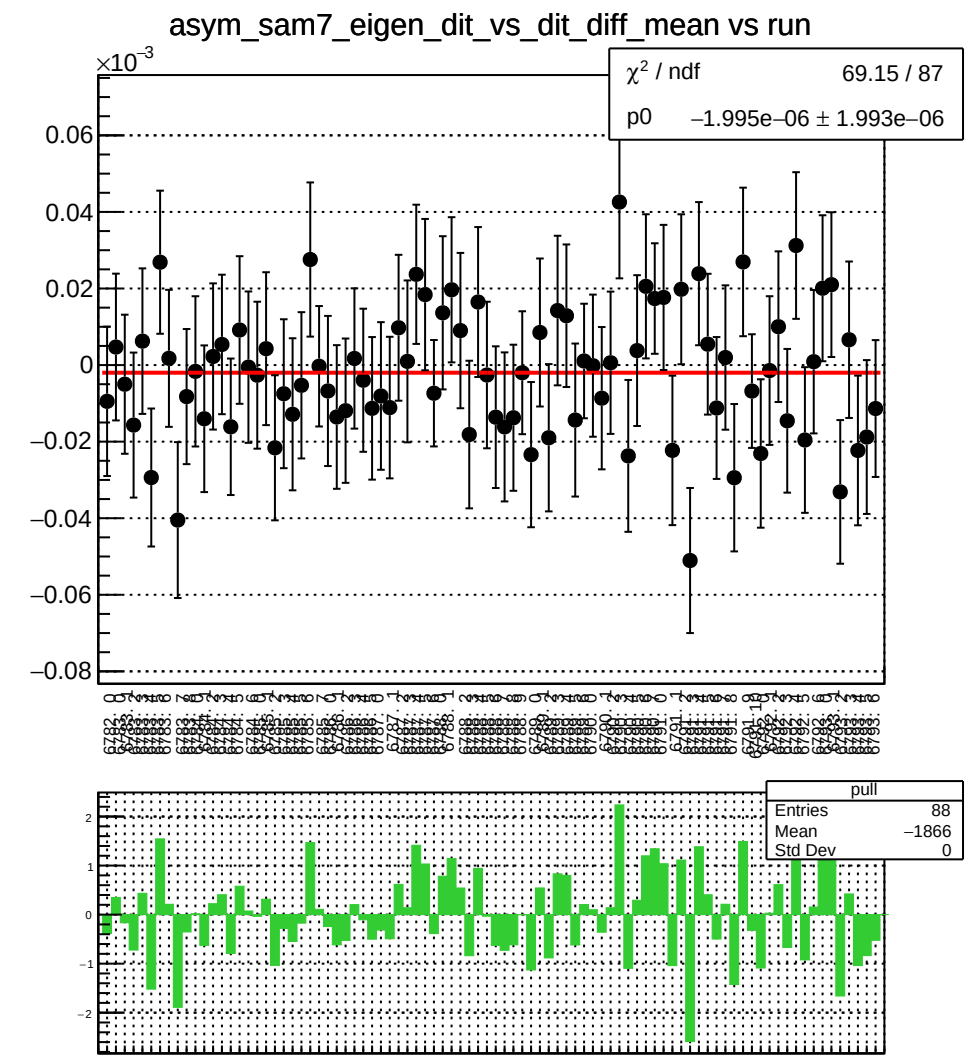

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 77.58 / 87
p0 0.0421± 0.02622
pull
Entries 88
Mean 310.4
Std Dev 0
pull1D
Entries 88
Mean 0.01691
Std Dev 0.9388

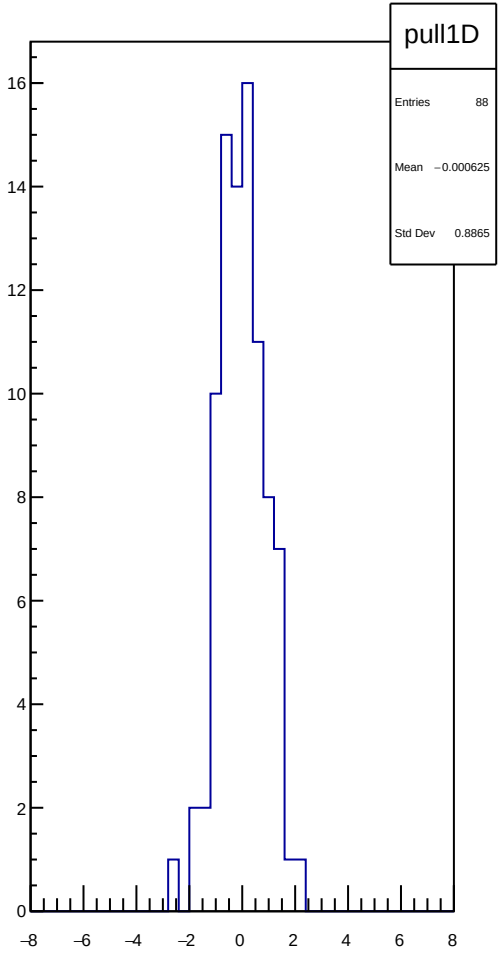

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.741e+04 / 87
p0 23.72 ± 0.01854
34
32
30
28
26
24
22
20
18

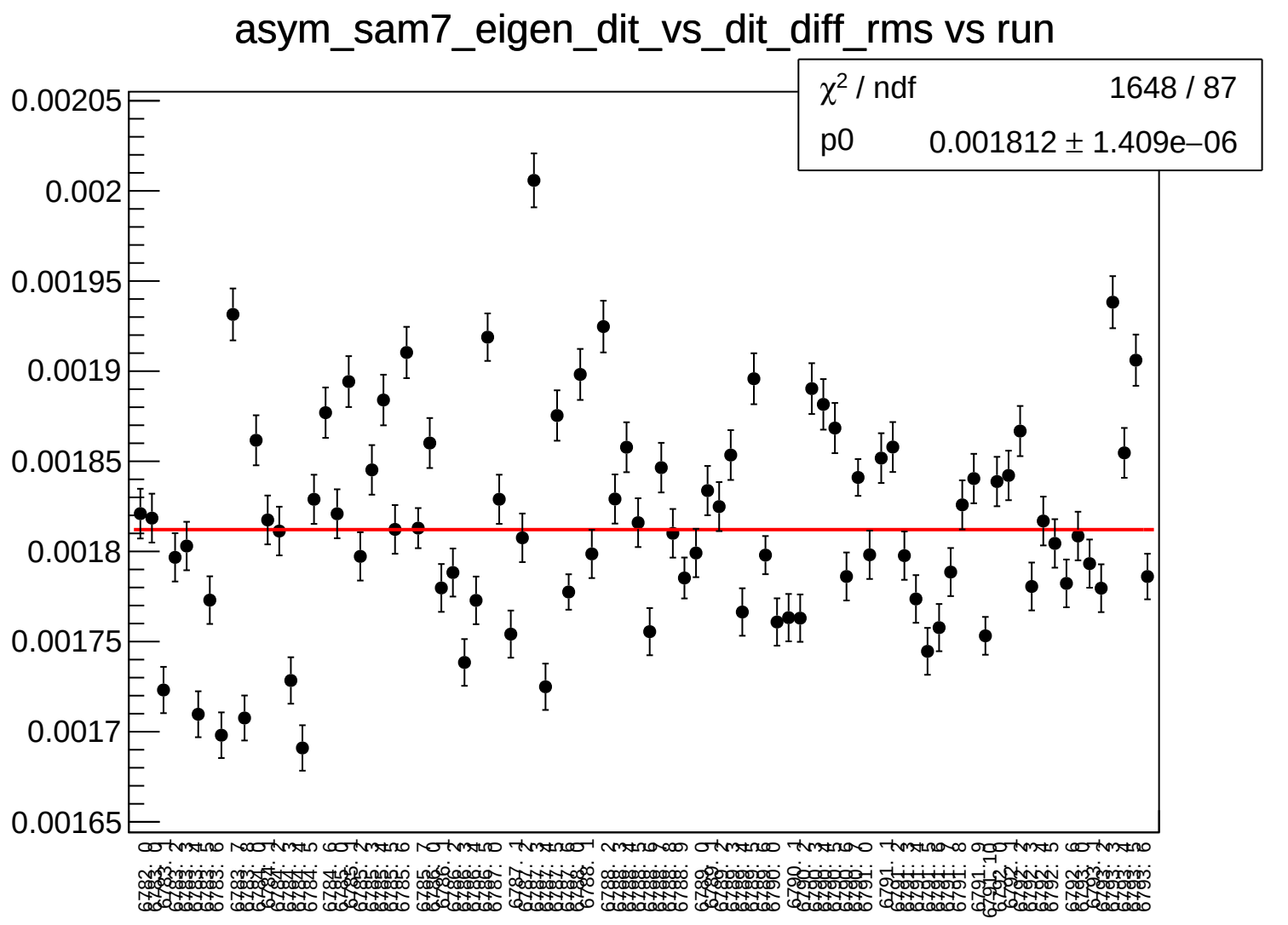

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.58 / 87
p0 0.0421± 0.02622
pull
Entries 88
Mean 310.4
Std Dev 0

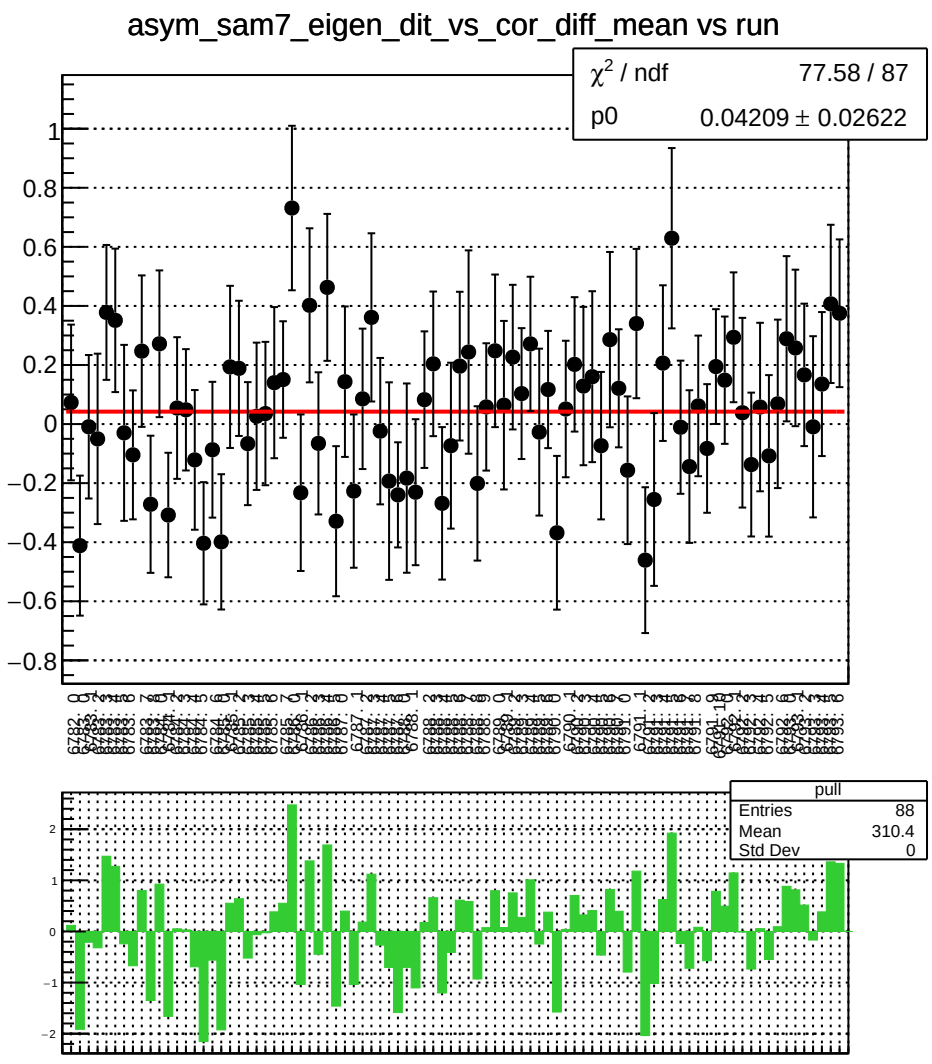

pull1D
Entries 88
Mean 0.01691
Std Dev 0.9388

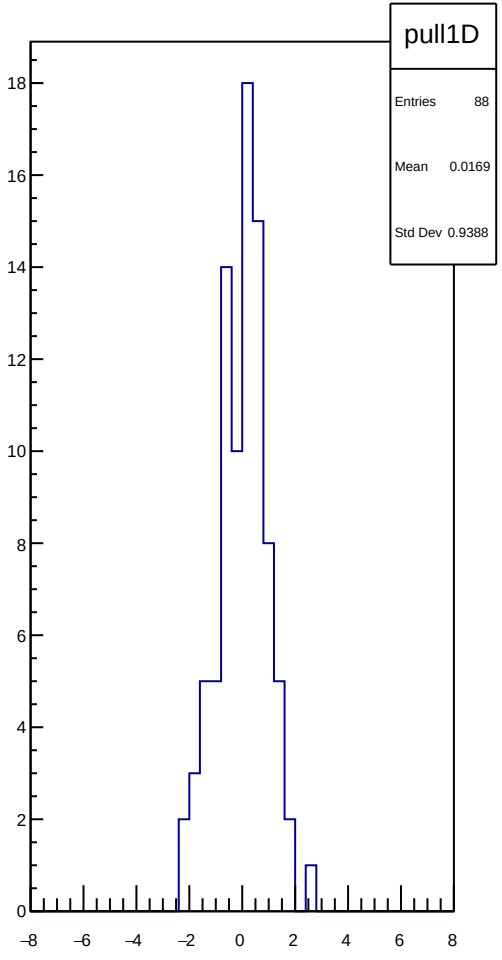

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.741e+04 / 87
p0 23.72 ± 0.01854
34
32
30
28
26
24
22
20
18

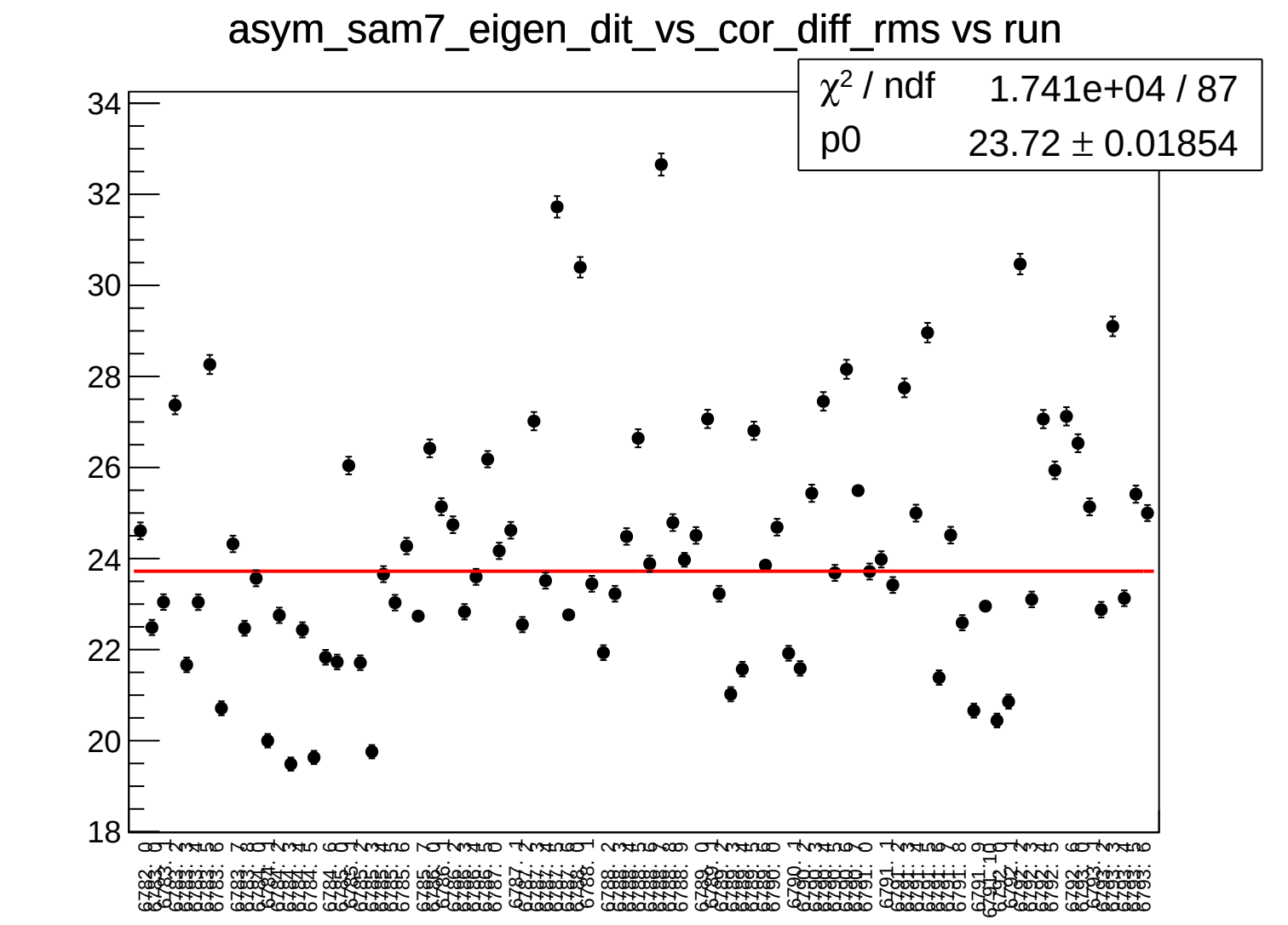

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.15 / 87
p0 −1.995e−06 ± 1.993e−06
pull
Entries 88
Mean −1866
Std Dev 0

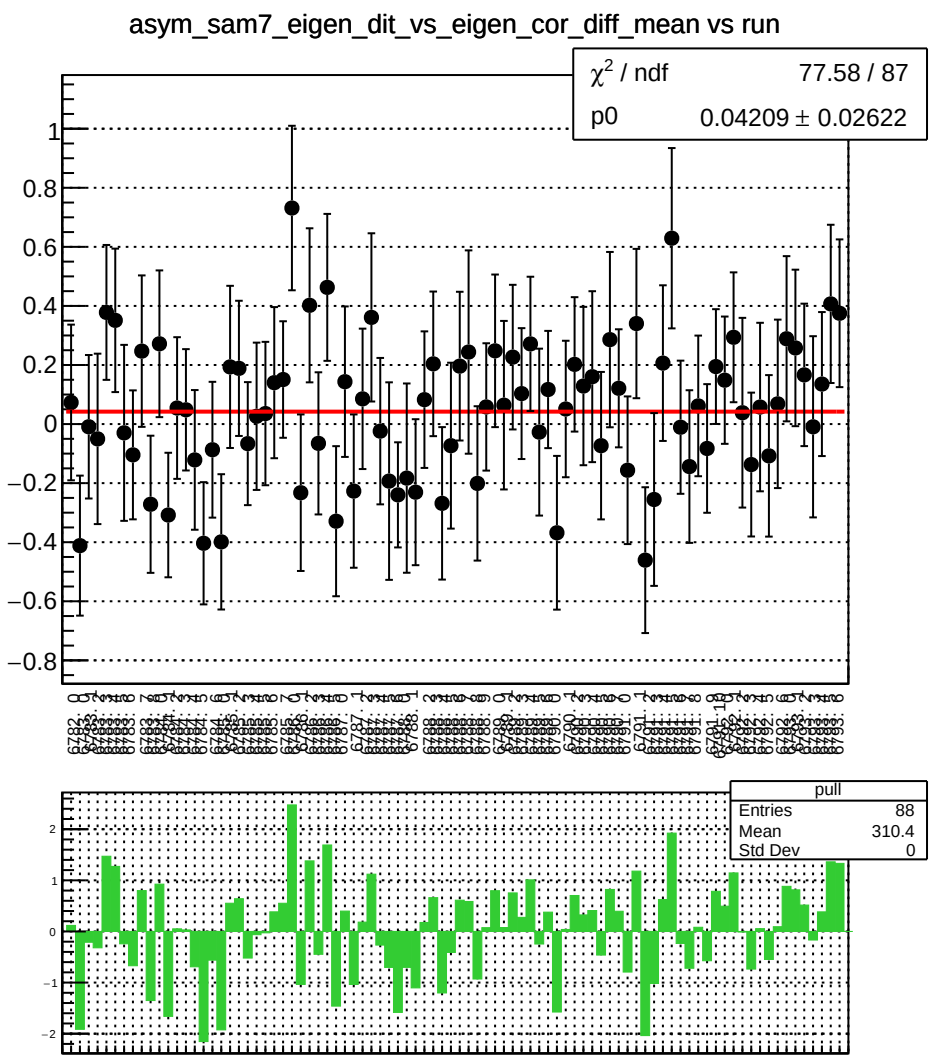

pull1D
Entries 88
Mean −0.000625
Std Dev 0.8865

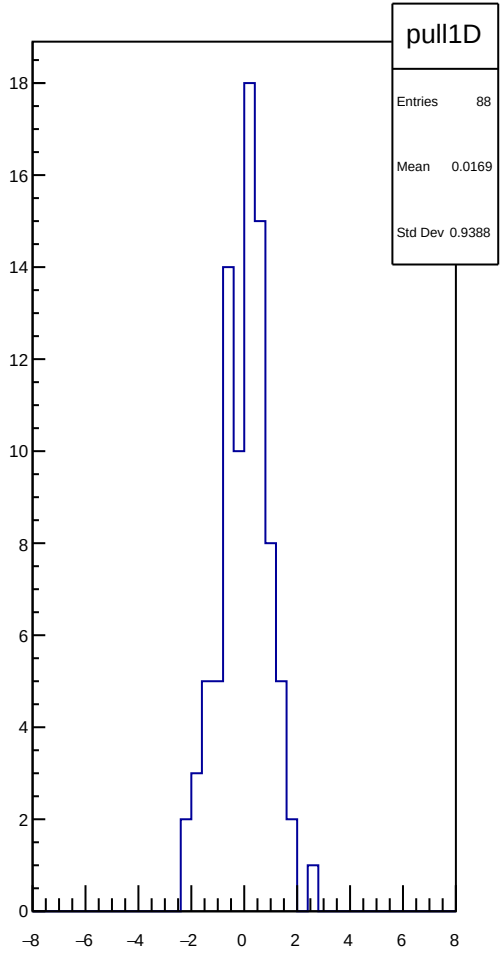

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1648 / 87
p0 0.001812 ± 1.409e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

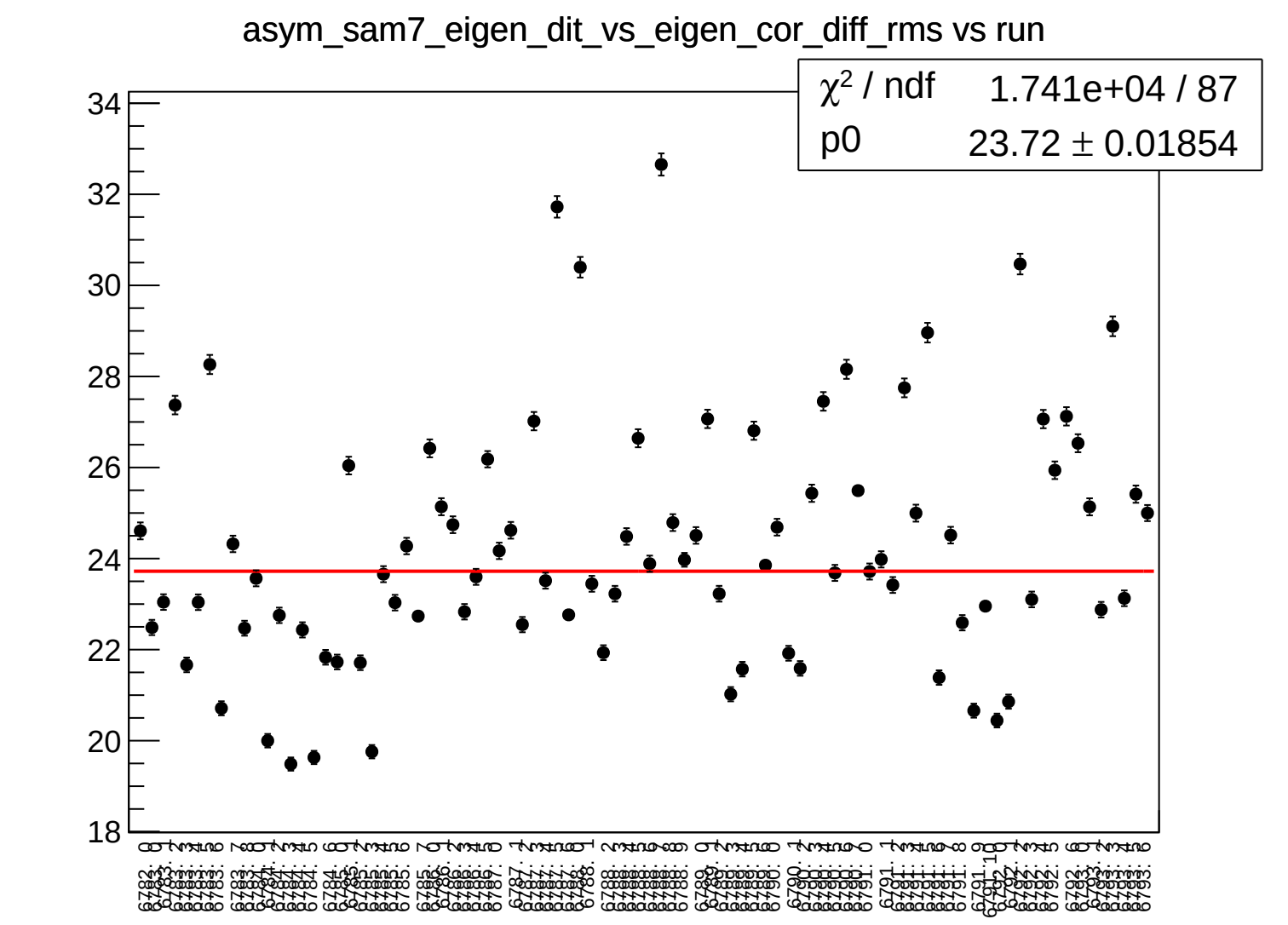

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.58 / 87
p0 0.04209 ± 0.02622
pull
Entries 88
Mean 310.4
Std Dev 0

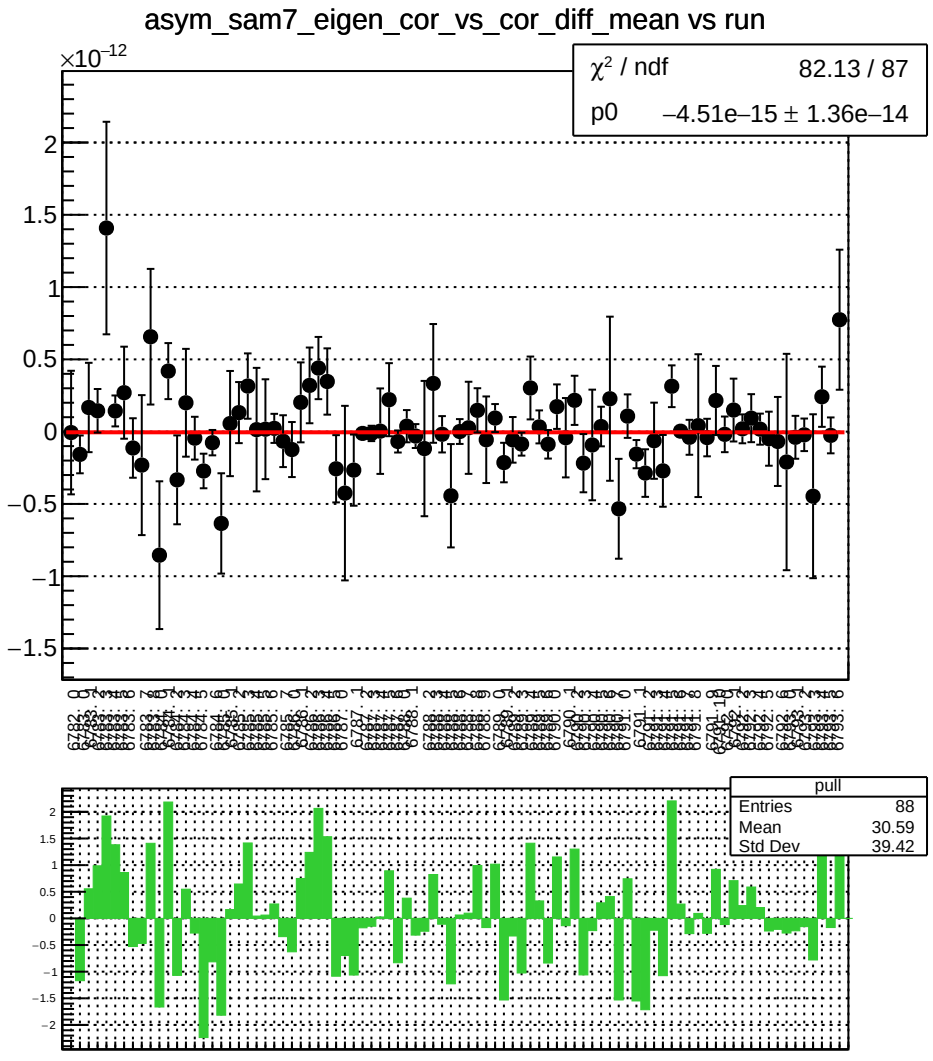

pull1D
Entries 88
Mean 0.0169
Std Dev 0.9388

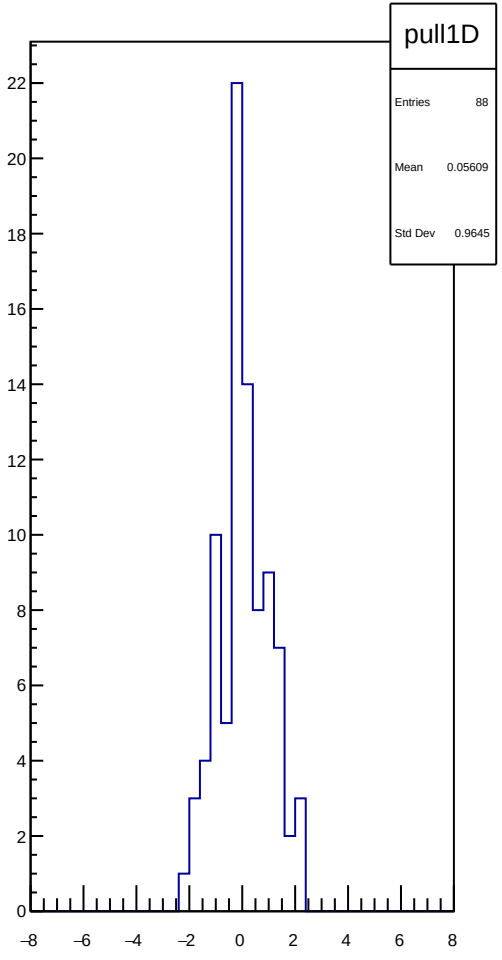

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.741e+04 / 87
p0 23.72 ± 0.01854
34
32
30
28
26
24
22
20
18

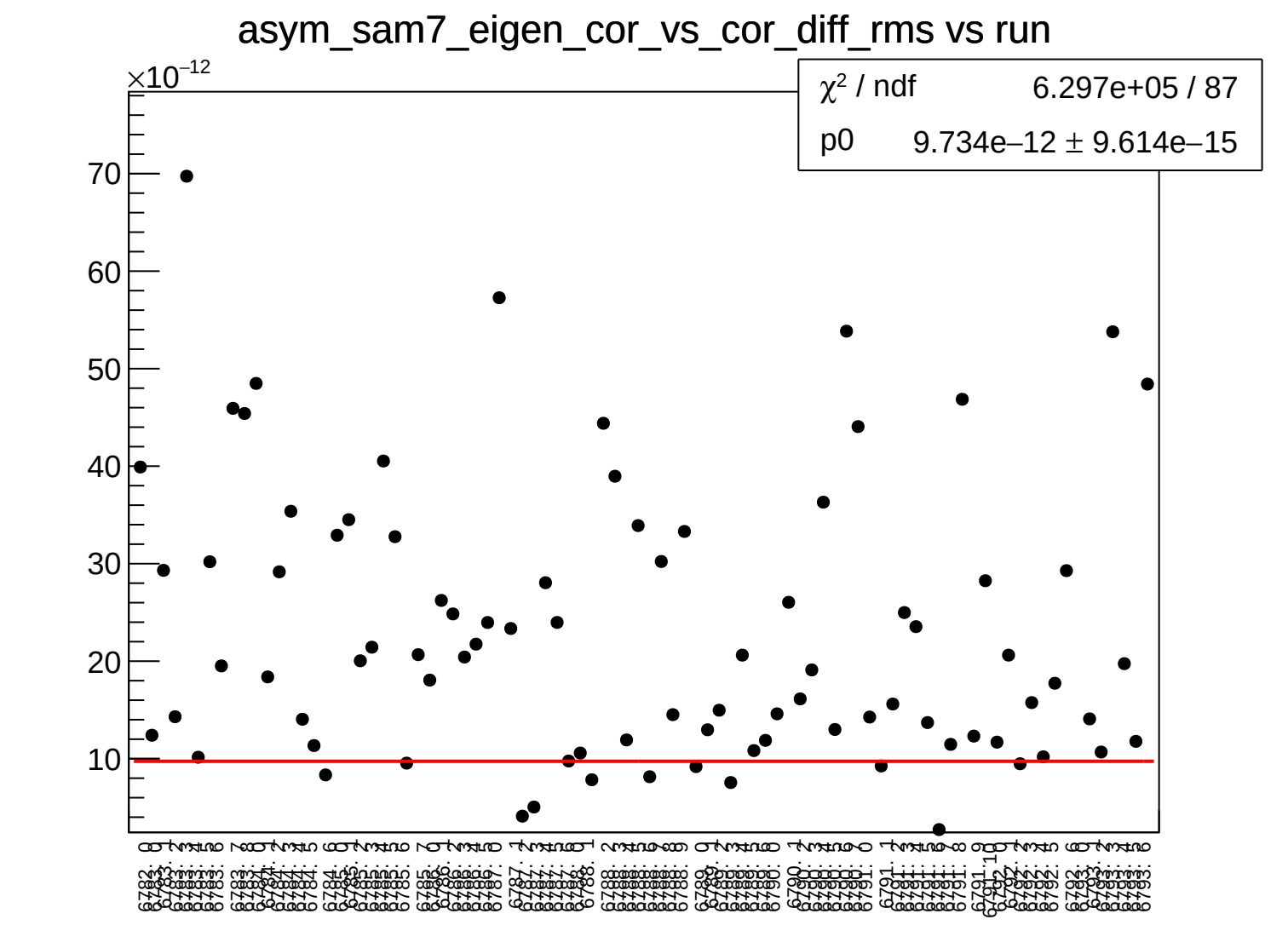

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.58 / 87
p0 0.04209 ± 0.02622
pull
Entries 88
Mean 310.4
Std Dev 0

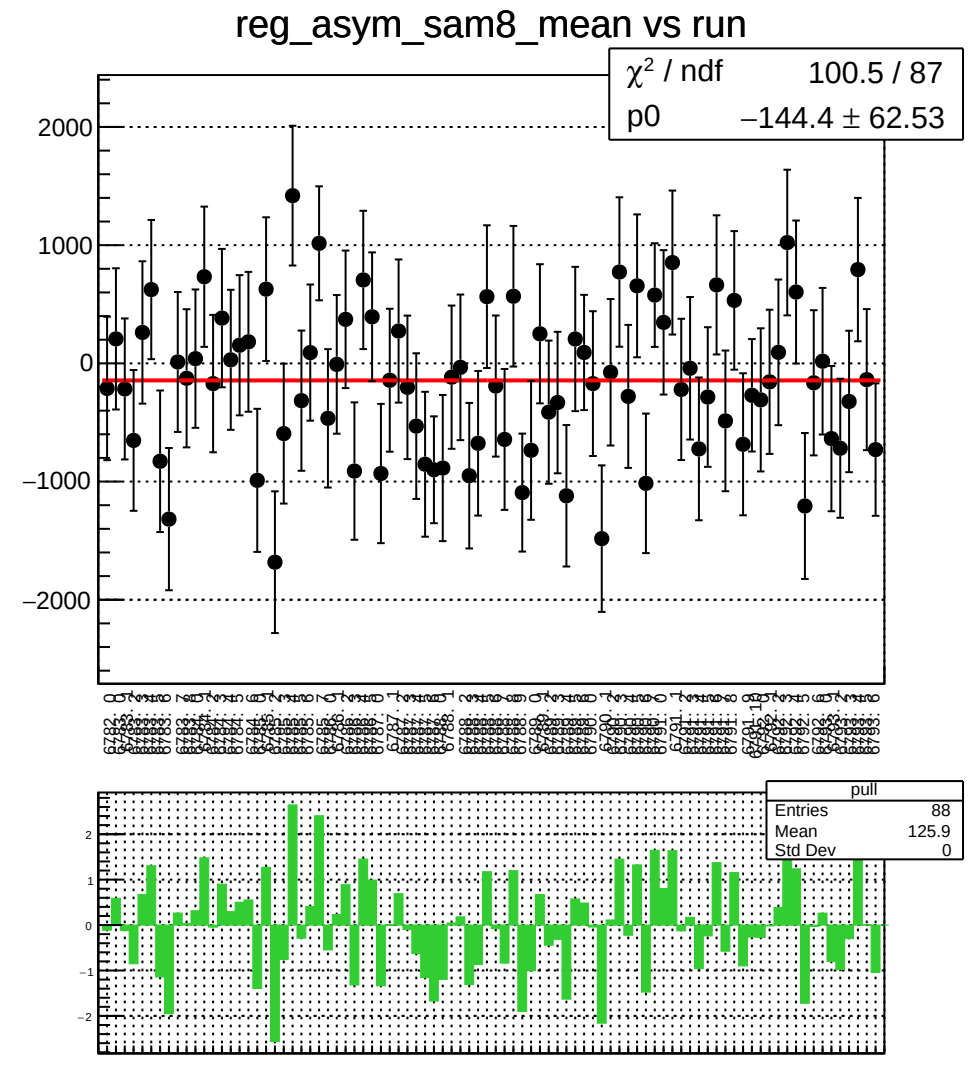

pull1D
Entries 88
Mean 0.0169
Std Dev 0.9388

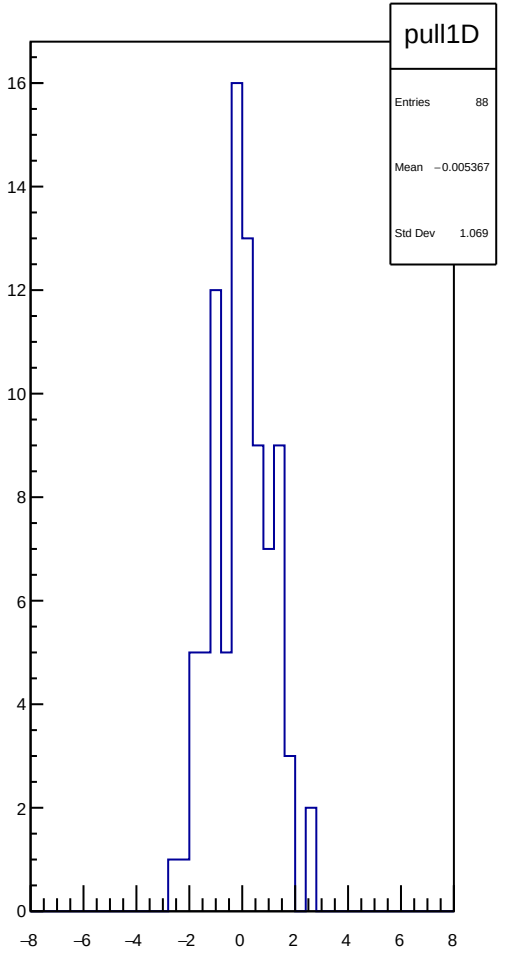

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.741e+04 / 87
p0 23.72 ± 0.01854
34
32
30
28
26
24
22
20
18

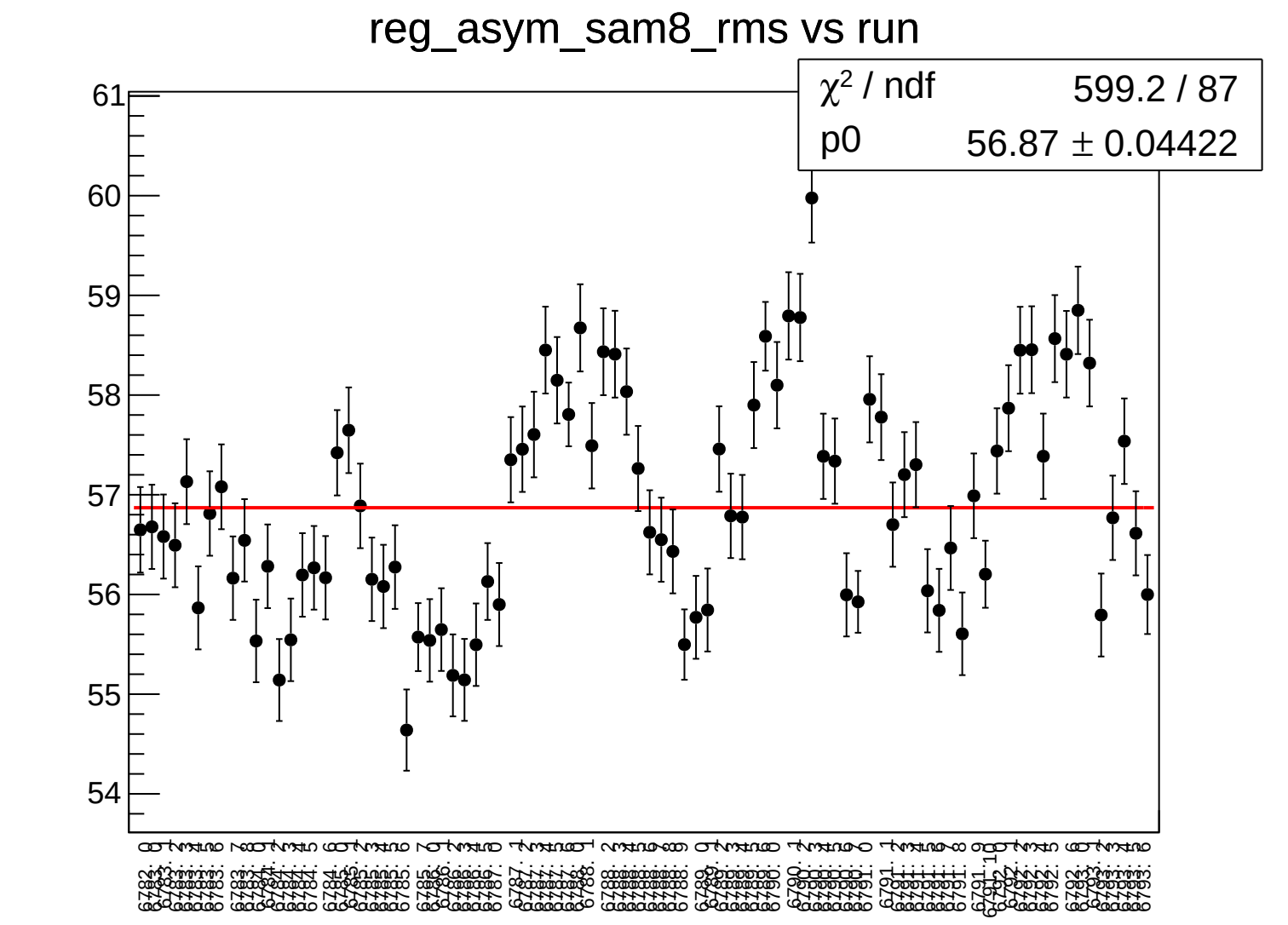

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.13 / 87
p0 −4.51e−15 ± 1.36e−14
pull
Entries 88
Mean 30.59
Std Dev 39.42

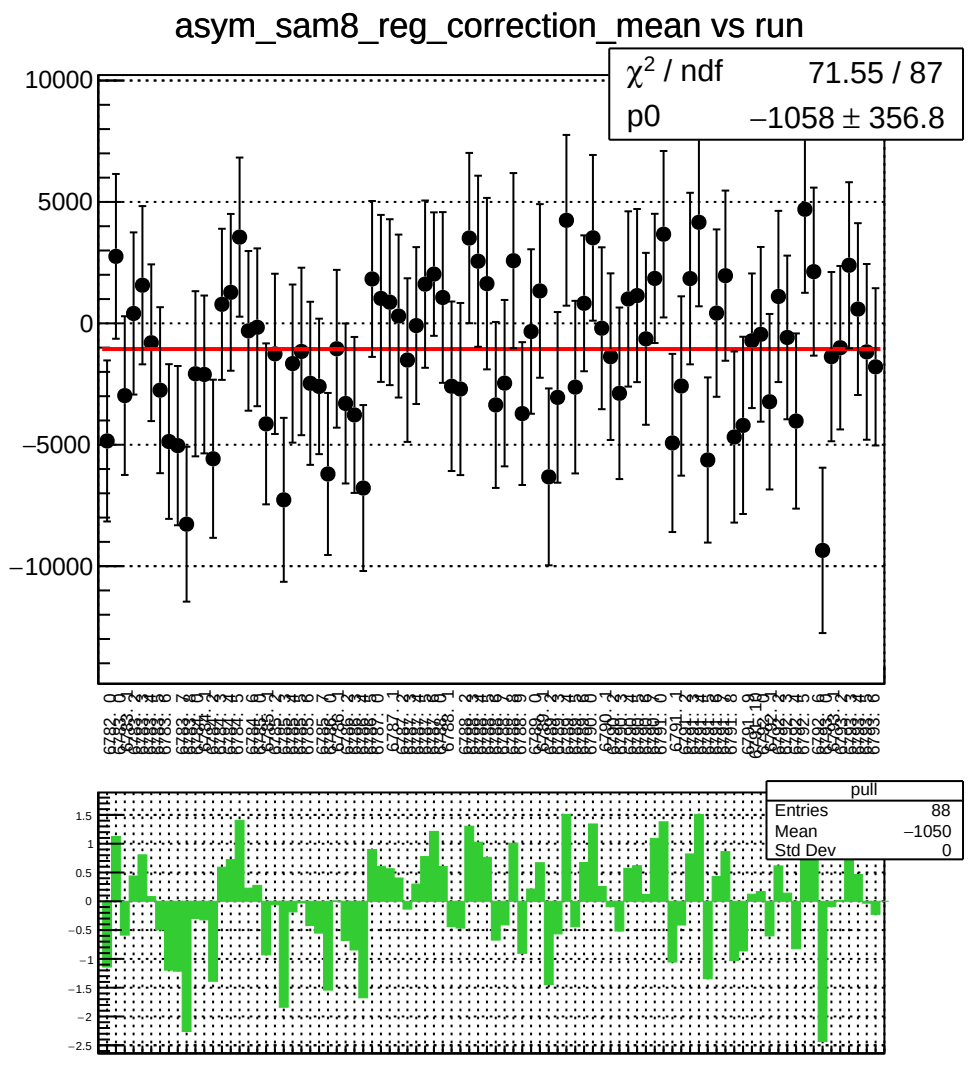

pull1D
Entries 88
Mean 0.05609
Std Dev 0.9645

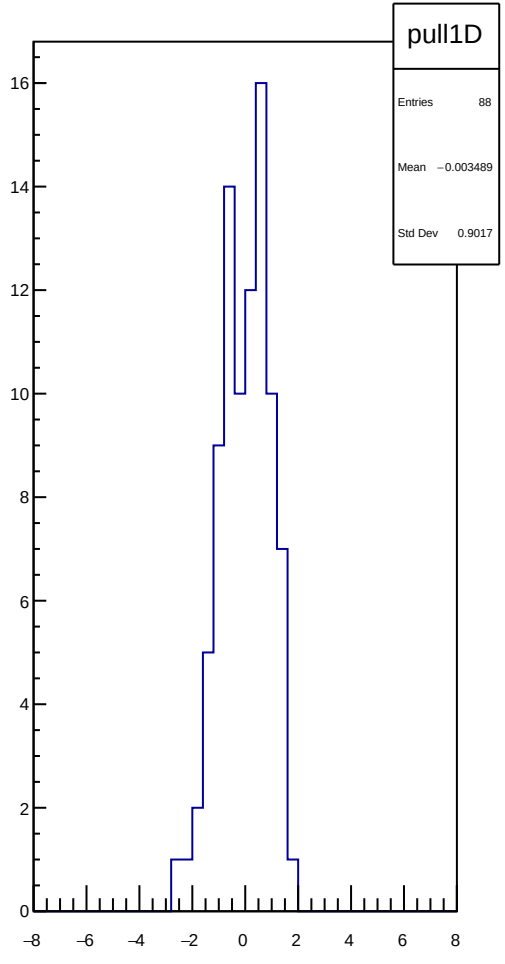

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.297e+05 / 87
p0 9.734e−12 ± 9.614e−15
70
60
50
40
30
20
10


reg_asym_sam8_mean vs run
χ² / ndf 100.5 / 87
p0 −144.4 ± 62.53
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 125.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.005367
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_rms vs run
χ² / ndf 599.2 / 87
p0 56.87 ± 0.04422
61
60
59
58
57
56
55
54


asym_sam8_reg_correction_mean vs run
χ² / ndf 71.55 / 87
p0 −1058 ± 356.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −1050
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean −0.003489
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
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−4
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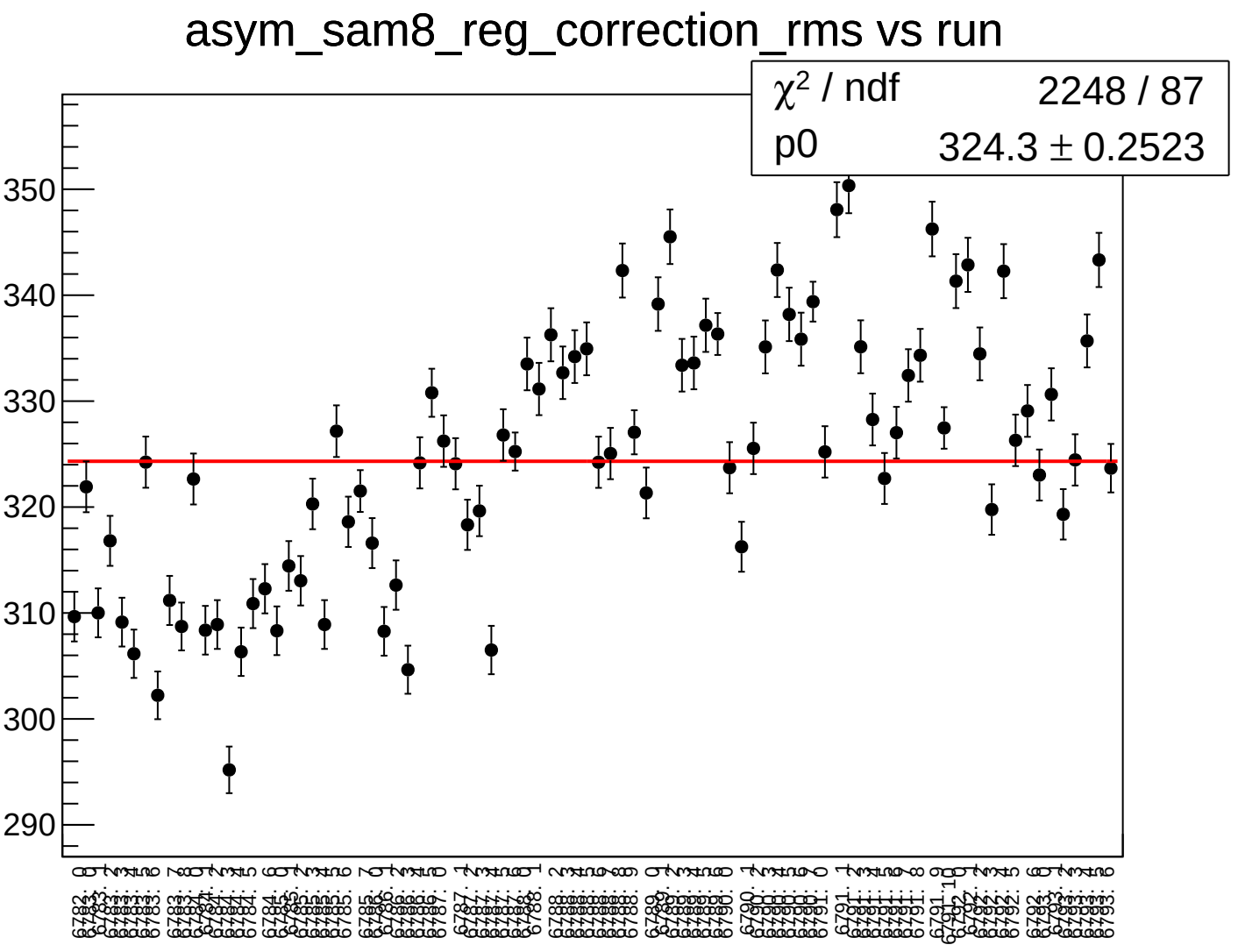
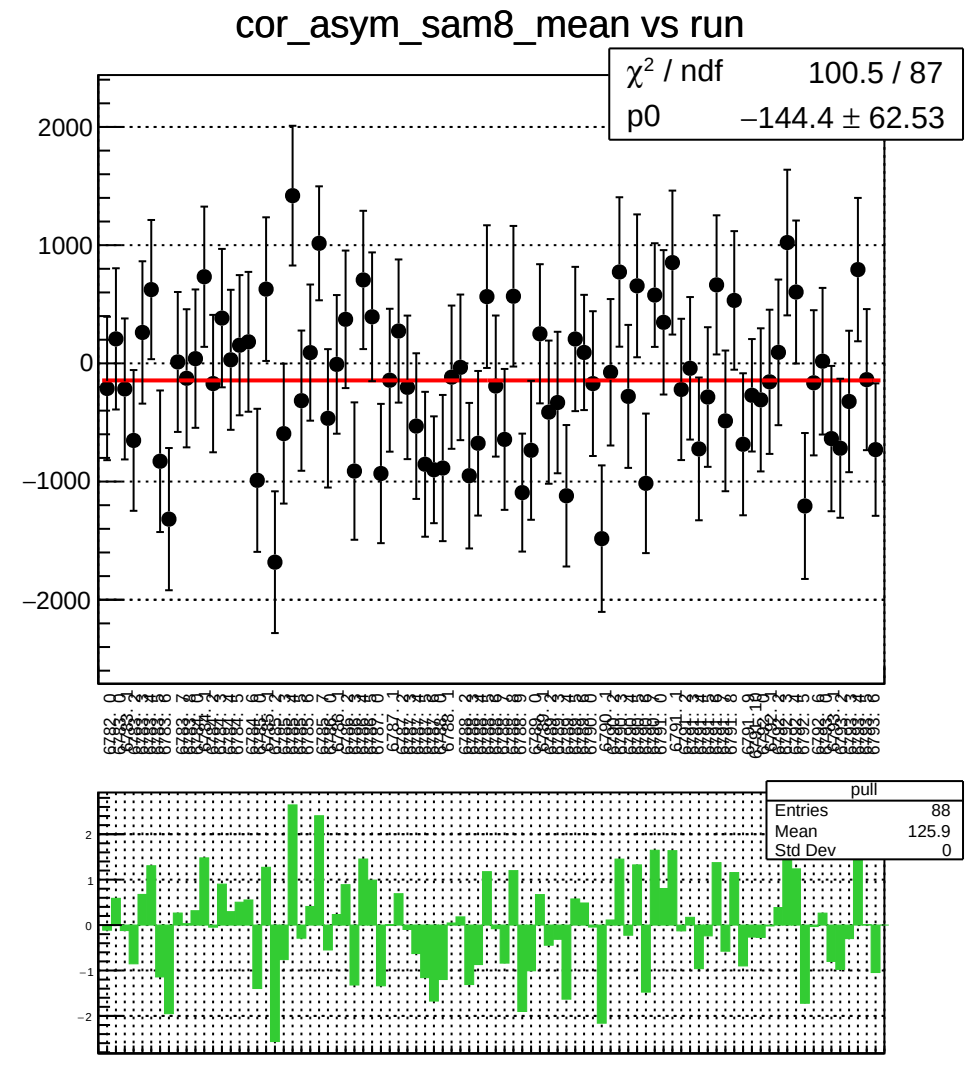
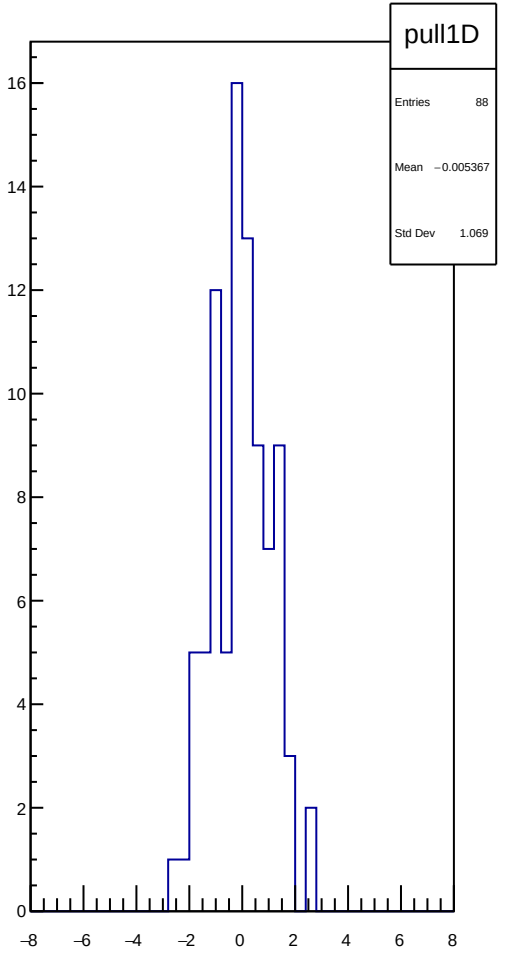
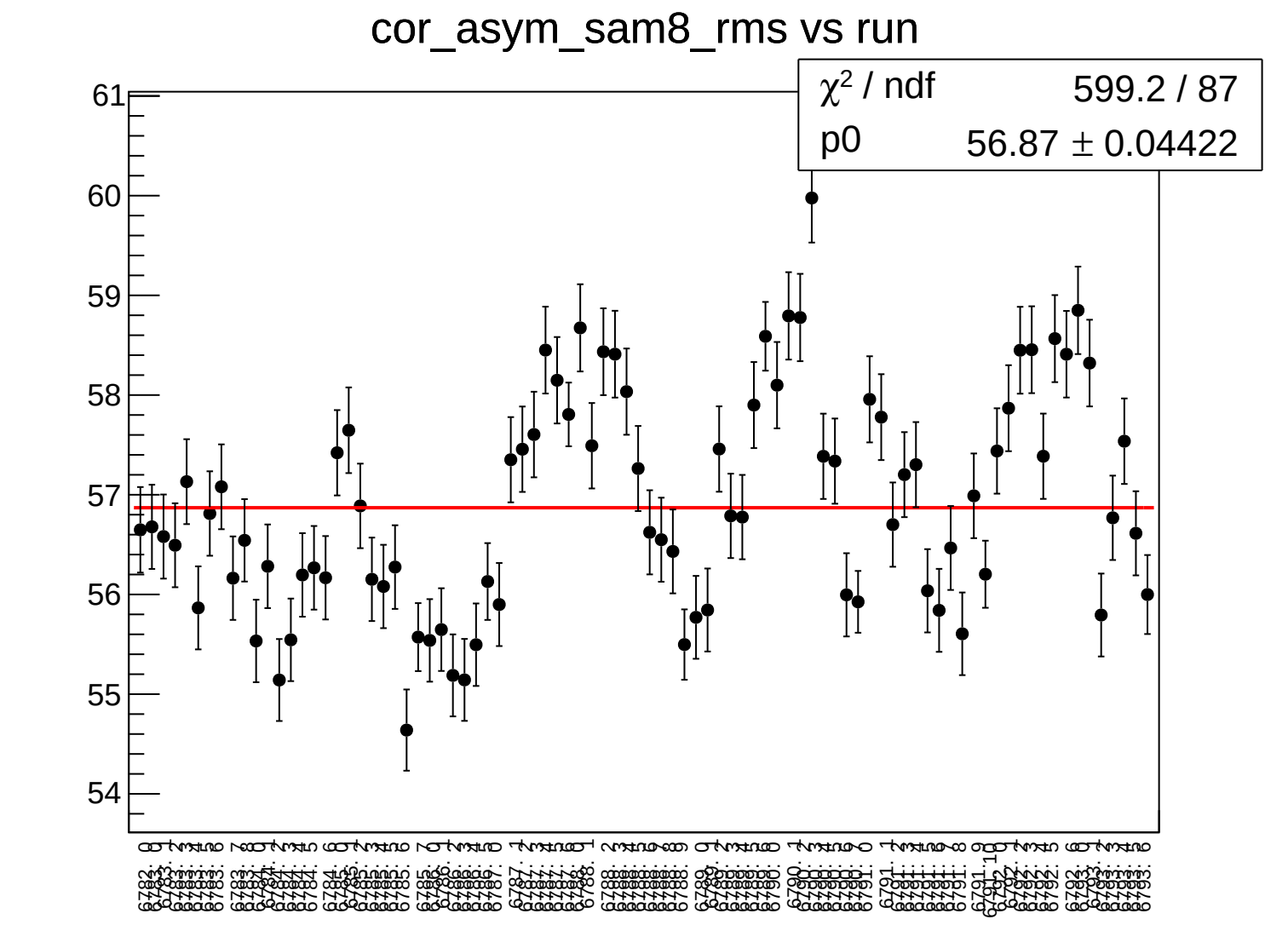
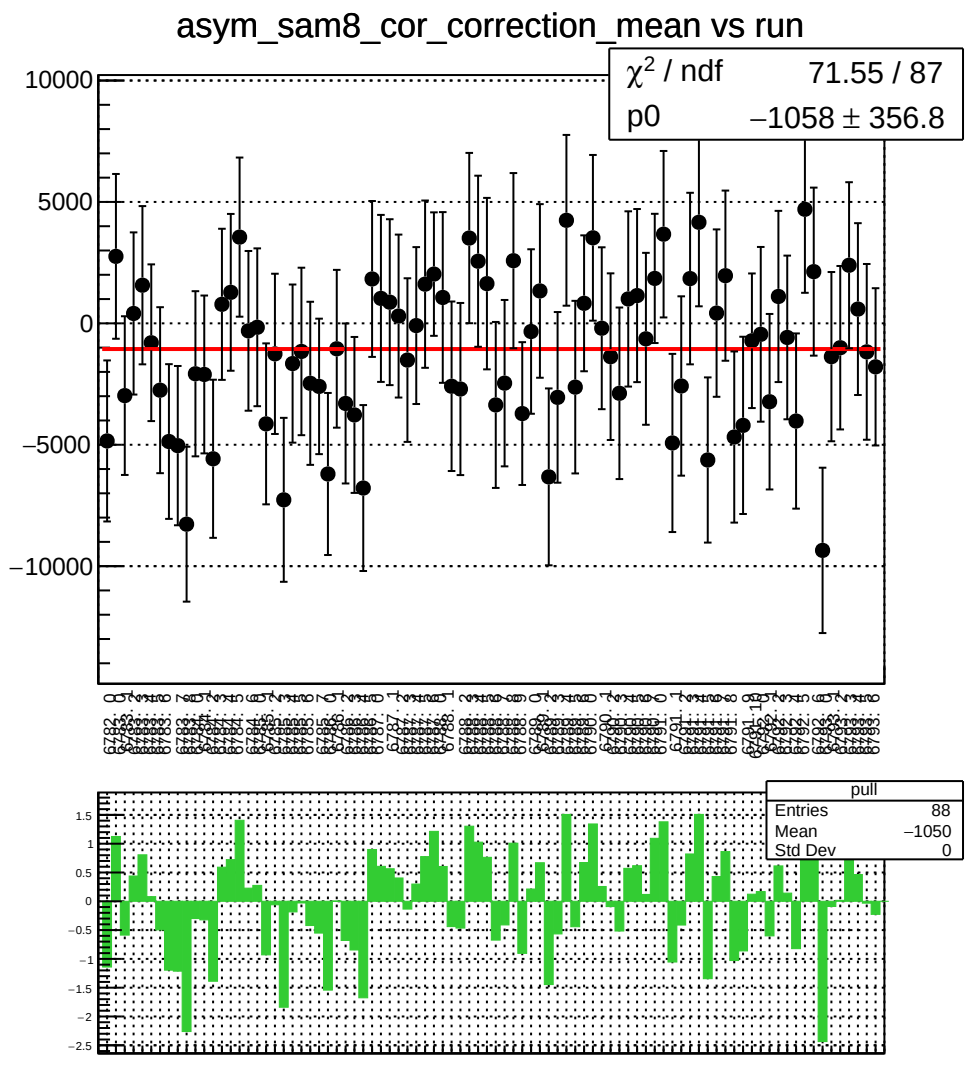
2
4
6
8

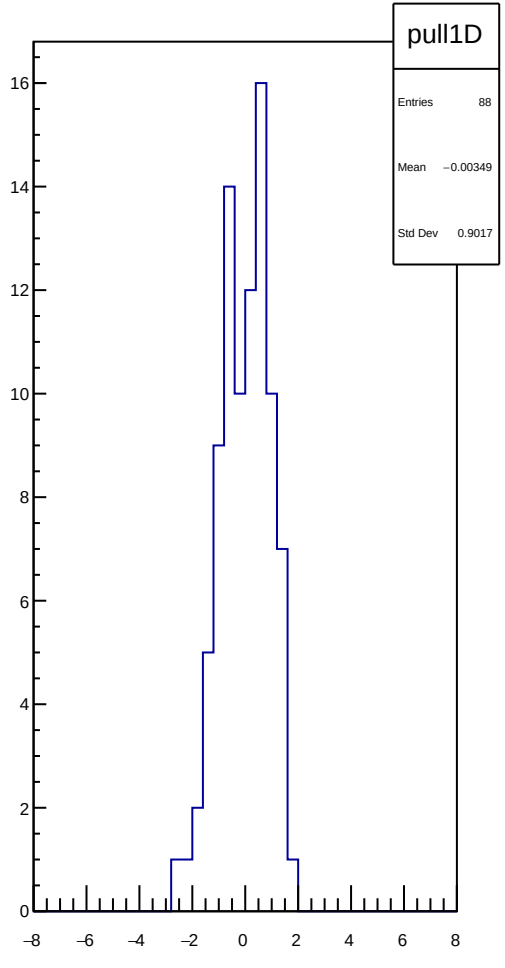

asym_sam8_reg_correction_rms vs run
χ² / ndf 2248 / 87
p0 324.3 ± 0.2523
350
340
330
320
310
300
290

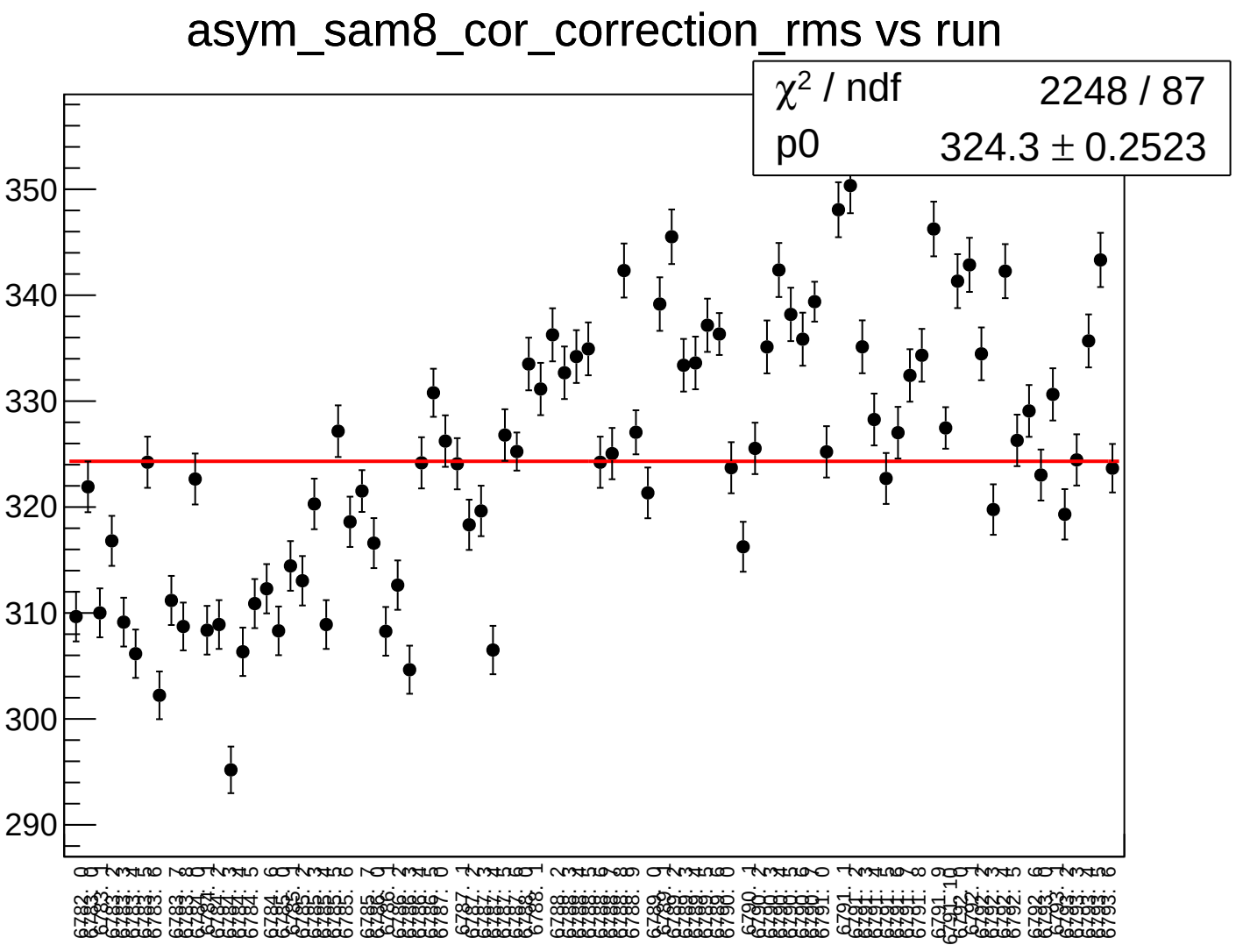

cor_asym_sam8_mean vs run
χ² / ndf 100.5 / 87
p0 −144.4 ± 62.53
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 125.9
Std Dev 0
2
1
0
−1
−2

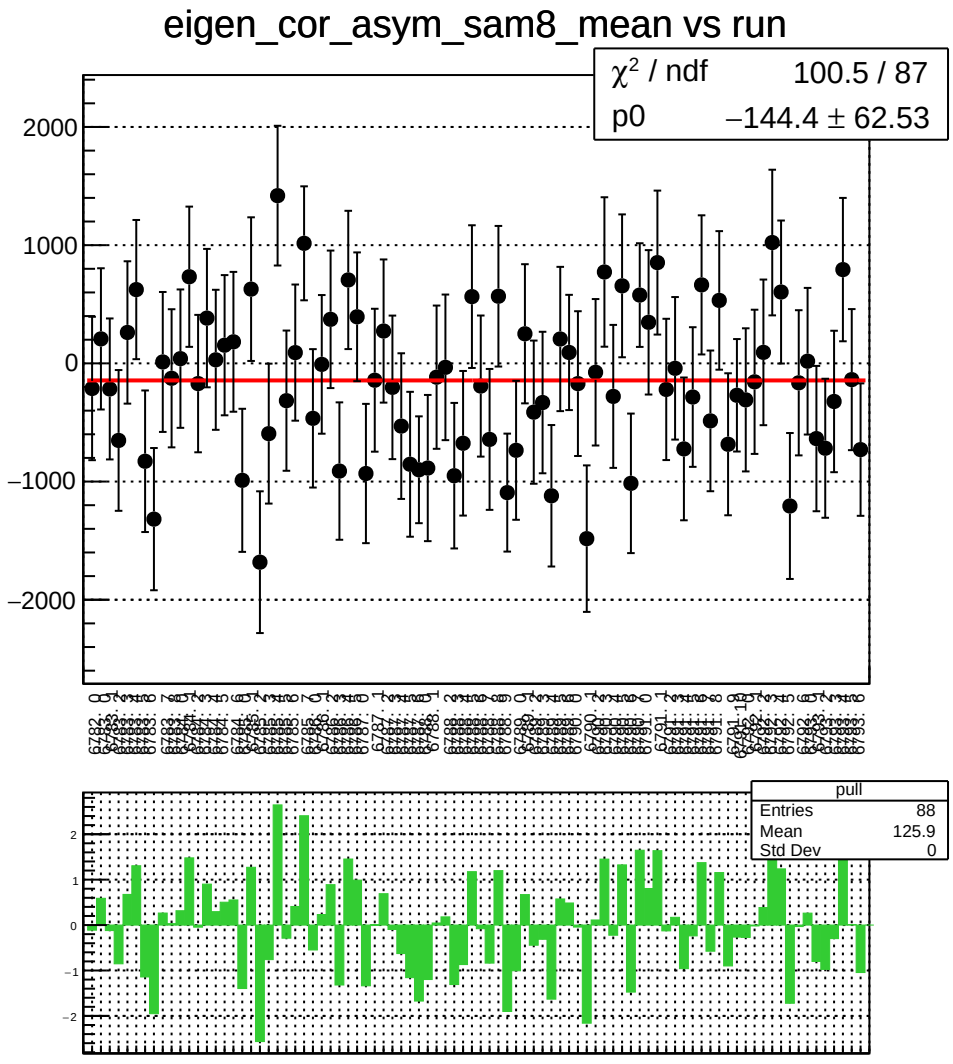

pull1D
Entries 88
Mean −0.005367
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

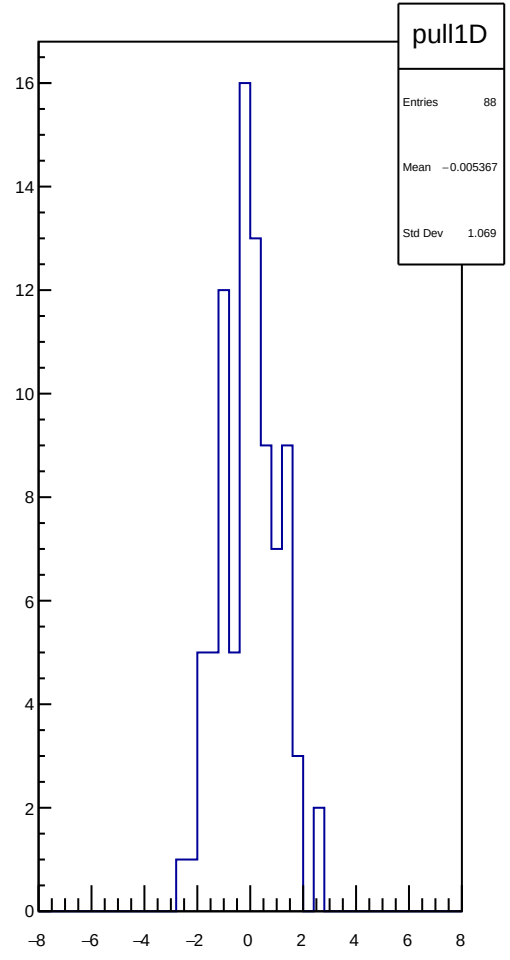

cor_asym_sam8_rms vs run
χ² / ndf 599.2 / 87
p0 56.87 ± 0.04422
61
60
59
58
57
56
55
54

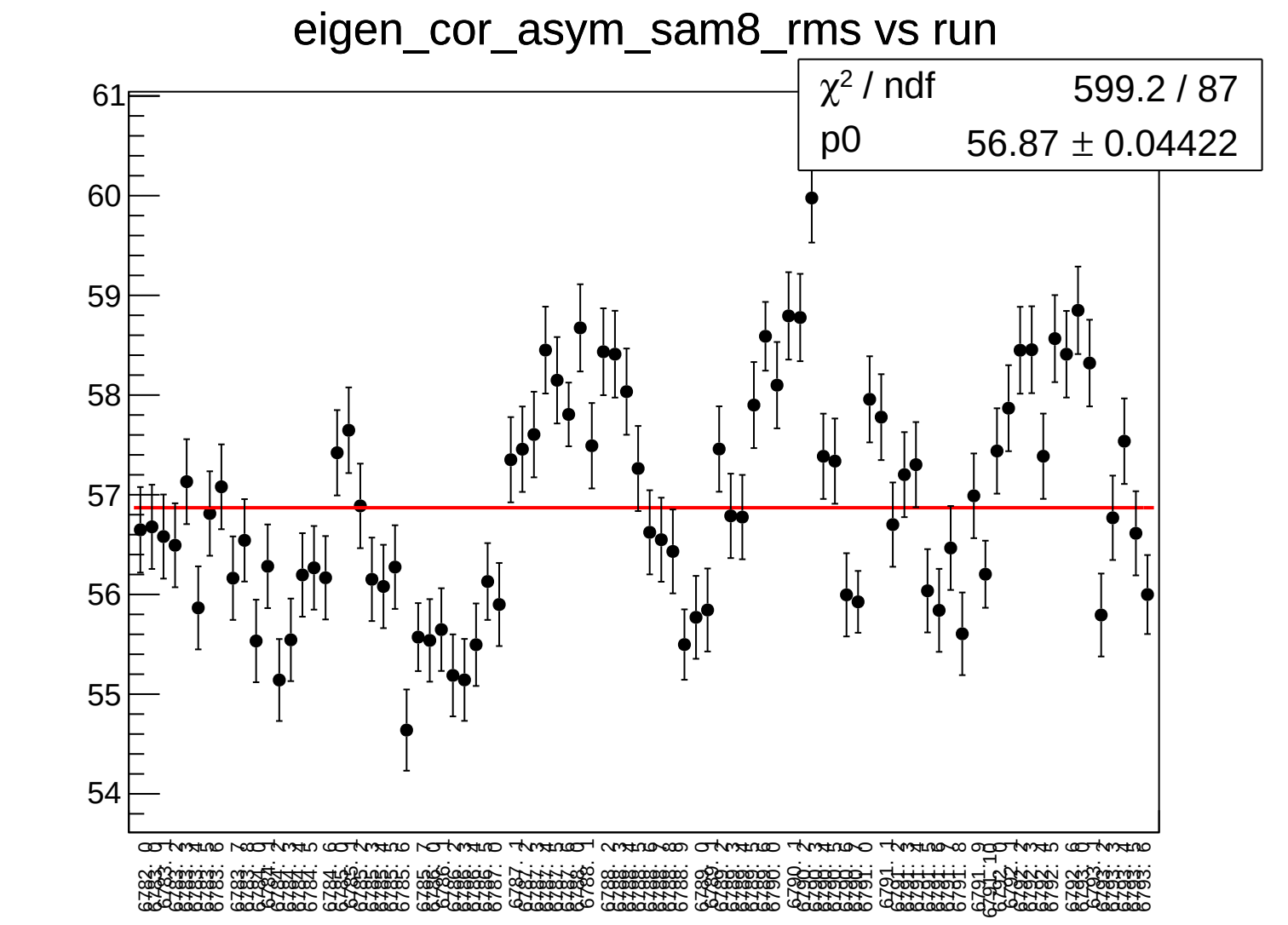

asym_sam8_cor_correction_mean vs run
χ² / ndf 71.55 / 87
p0 −1058 ± 356.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −1050
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

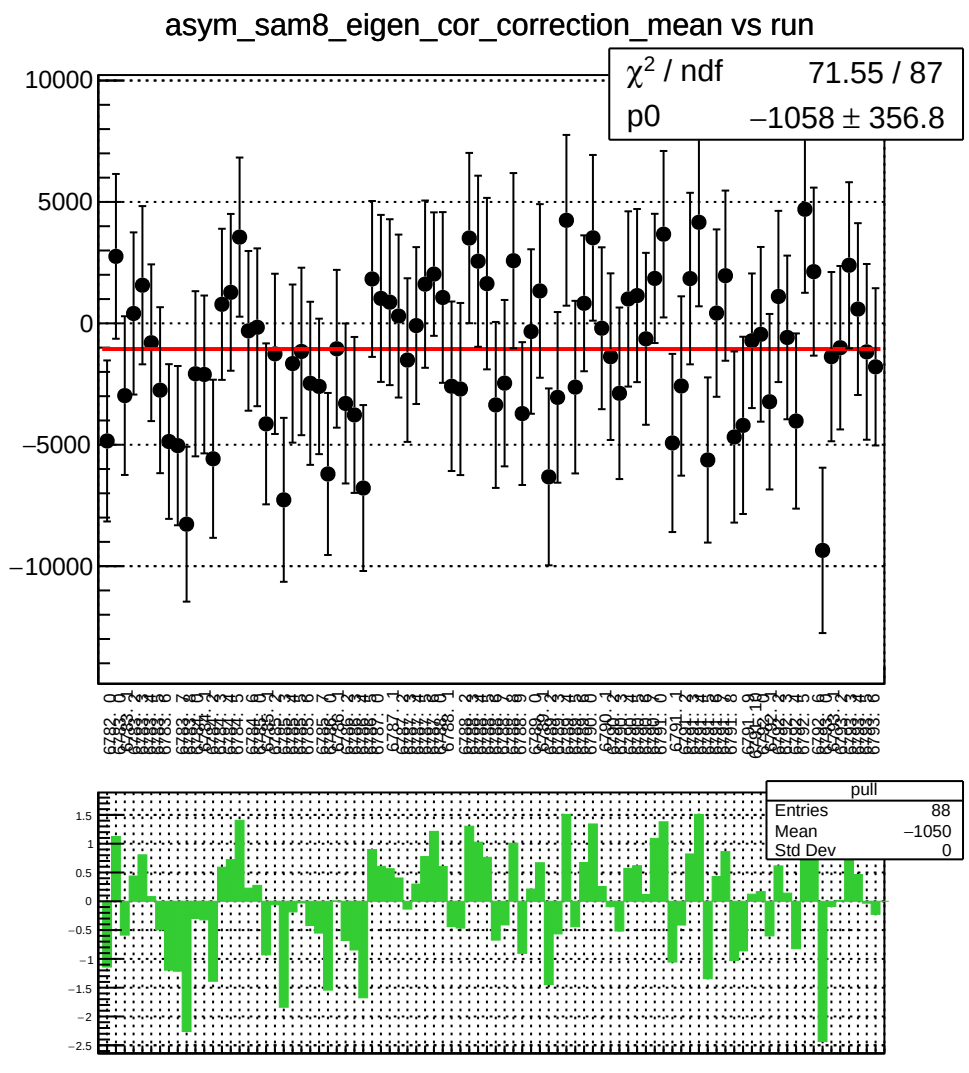

pull1D
Entries 88
Mean −0.00349
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

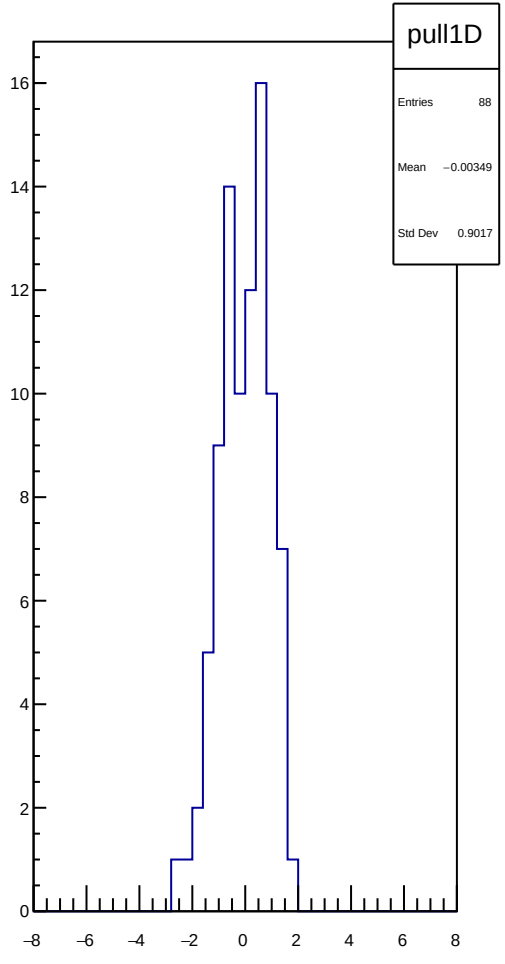

asym_sam8_cor_correction_rms vs run
χ² / ndf 2248 / 87
p0 324.3 ± 0.2523
350
340
330
320
310
300
290

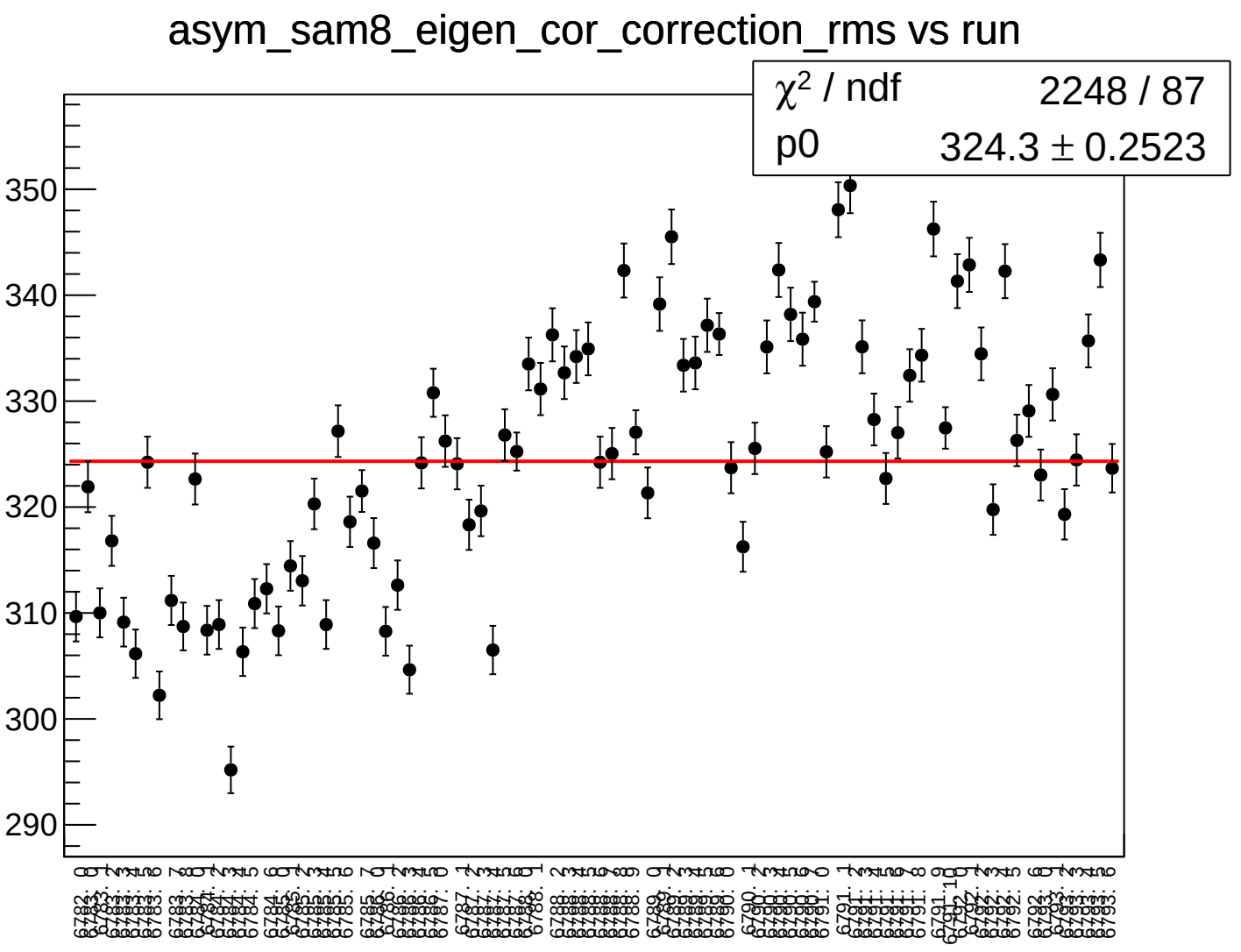

eigen_cor_asym_sam8_mean vs run
χ² / ndf 100.5 / 87
p0 −144.4 ± 62.53
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 125.9
Std Dev 0
2
1
0
−1
−2

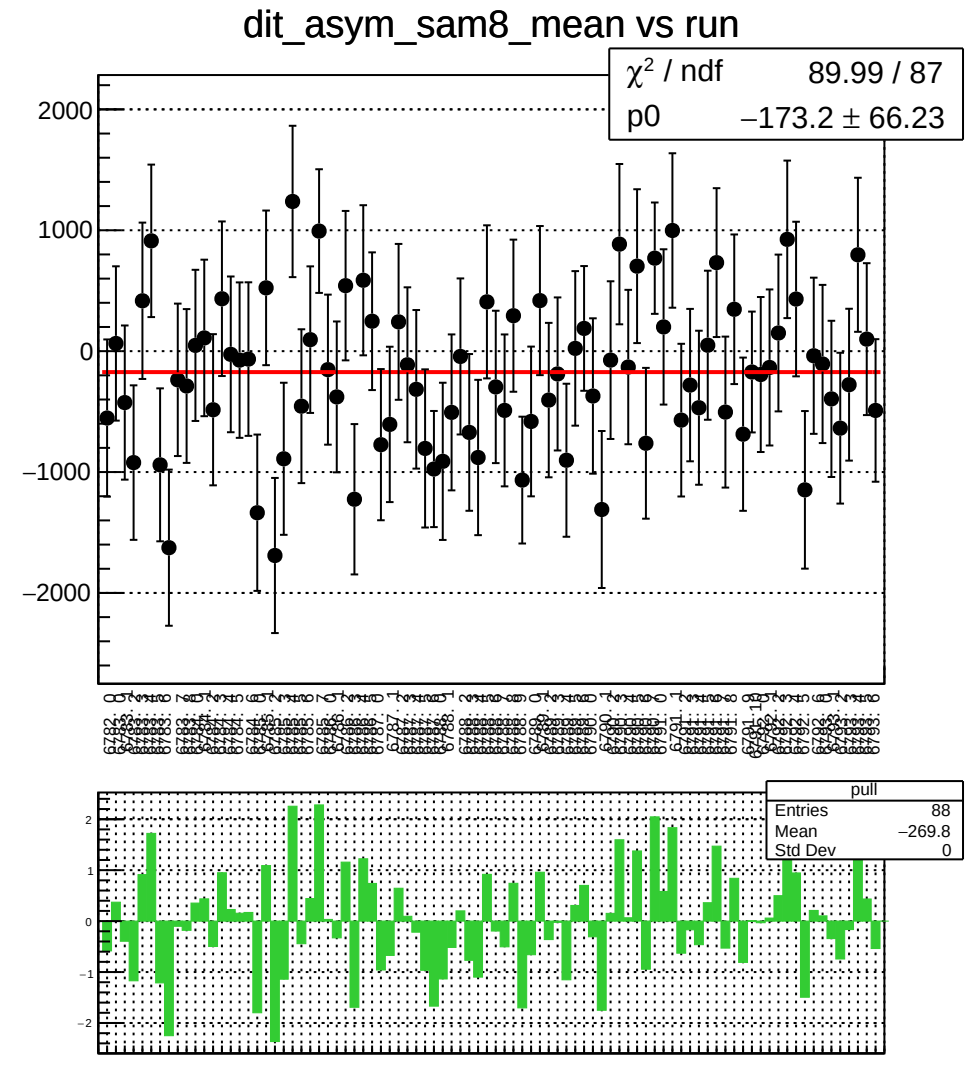

pull1D
Entries 88
Mean −0.005367
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

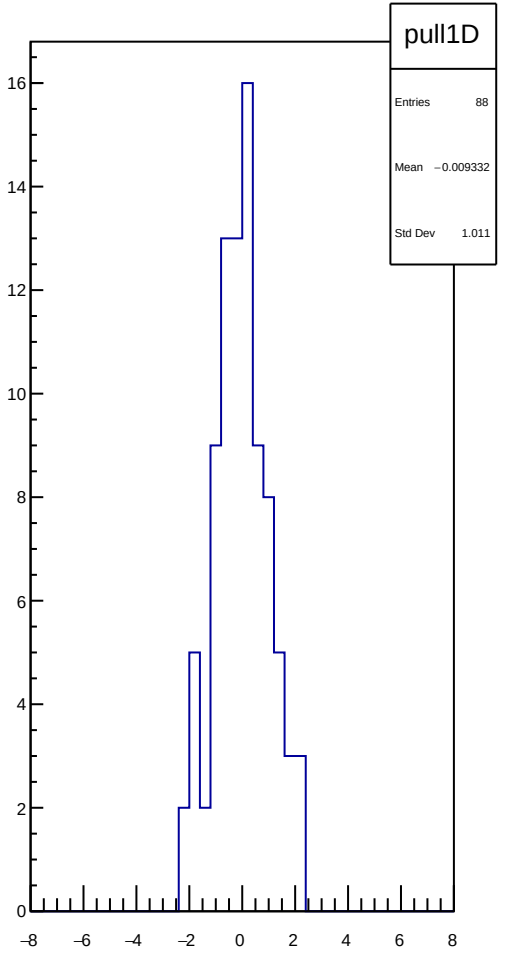

eigen_cor_asym_sam8_rms vs run
χ² / ndf 599.2 / 87
p0 56.87 ± 0.04422
61
60
59
58
57
56
55
54

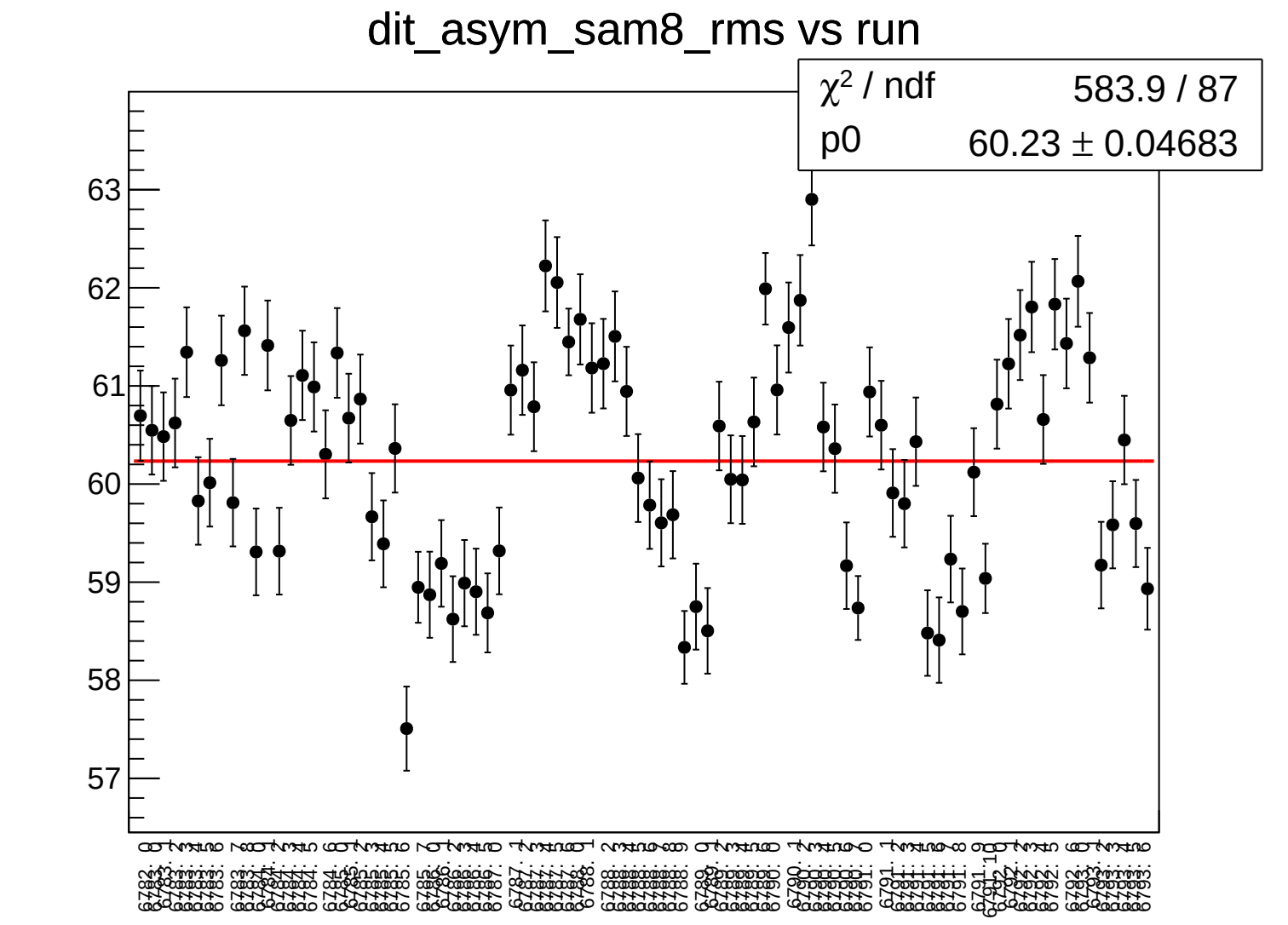

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 71.55 / 87
p0 −1058 ± 356.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −1050
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

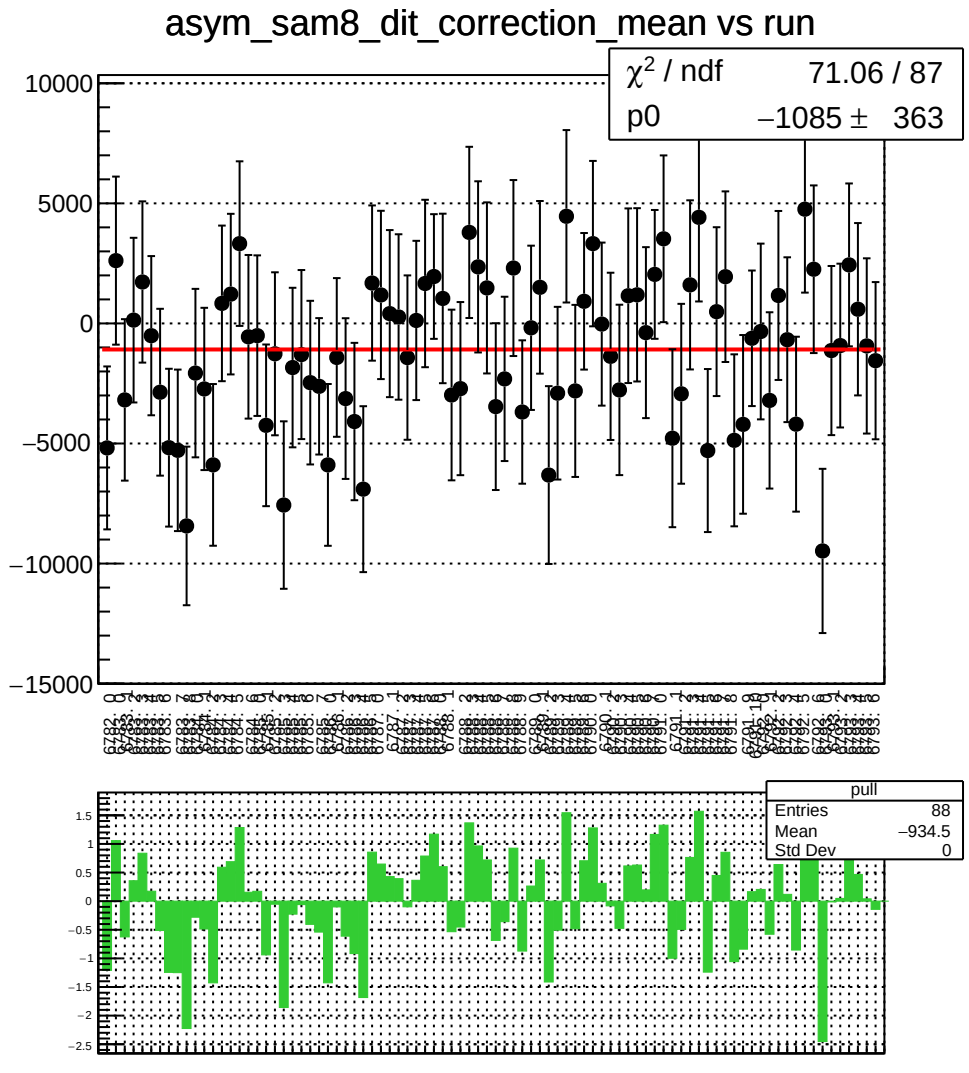

pull1D
Entries 88
Mean −0.00349
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

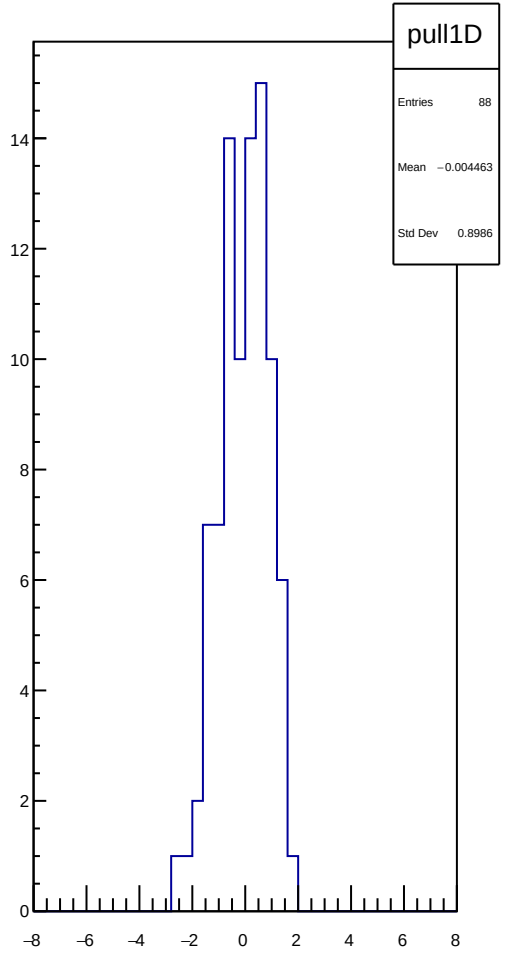

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2248 / 87
p0 324.3 ± 0.2523
350
340
330
320
310
300
290

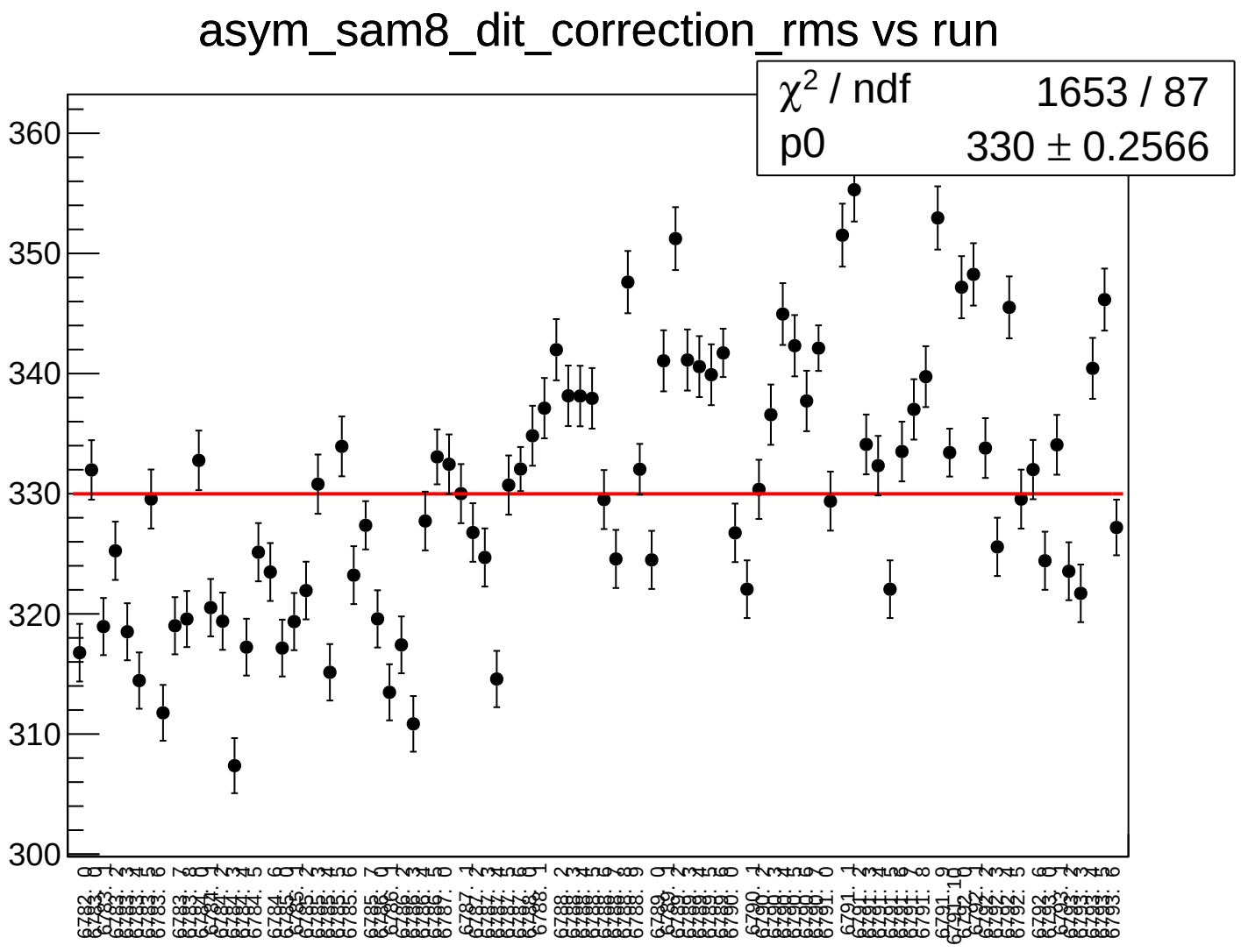

dit_asym_sam8_mean vs run
χ² / ndf 89.99 / 87
p0 −173.2 ± 66.23
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −269.8
Std Dev 0
2
1
0
−1
−2

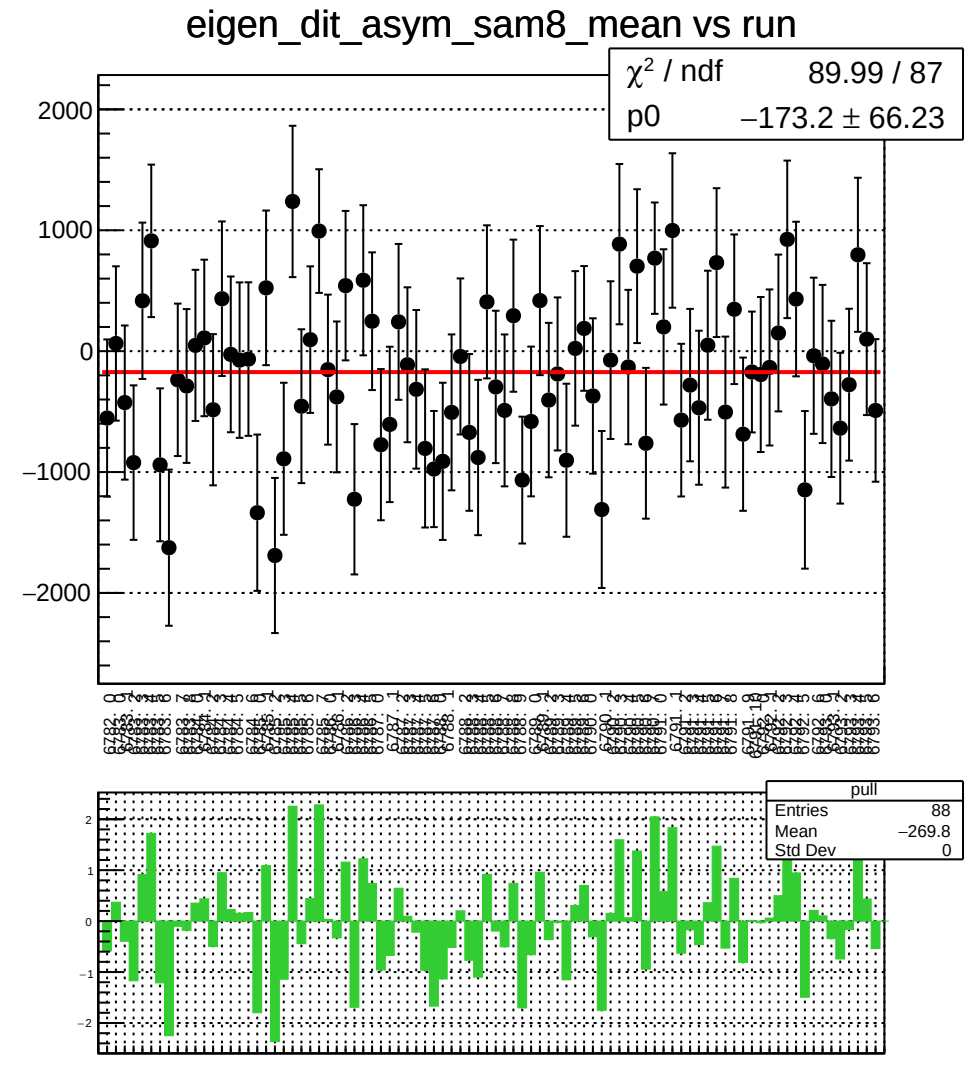

pull1D
Entries 88
Mean −0.009332
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

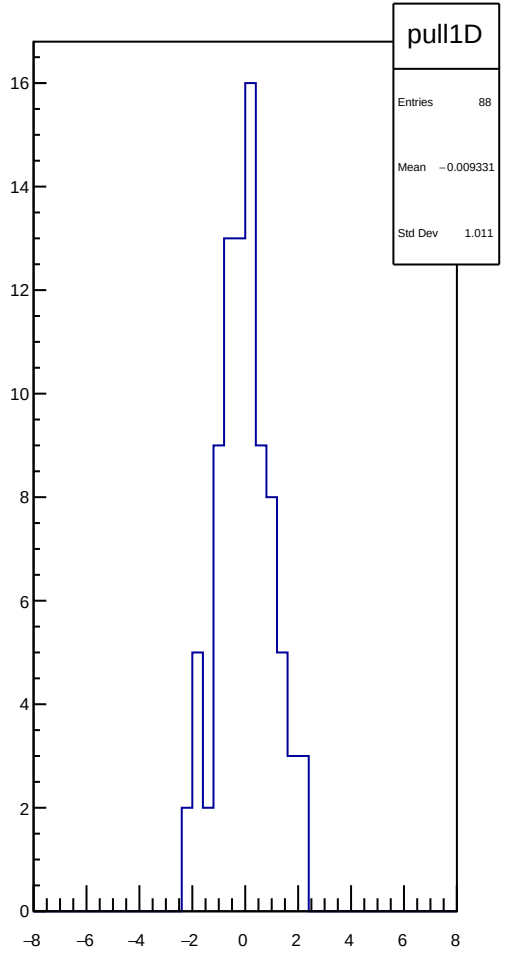

dit_asym_sam8_rms vs run
χ² / ndf 583.9 / 87
p0 60.23 ± 0.04683
63
62
61
60
59
58
57

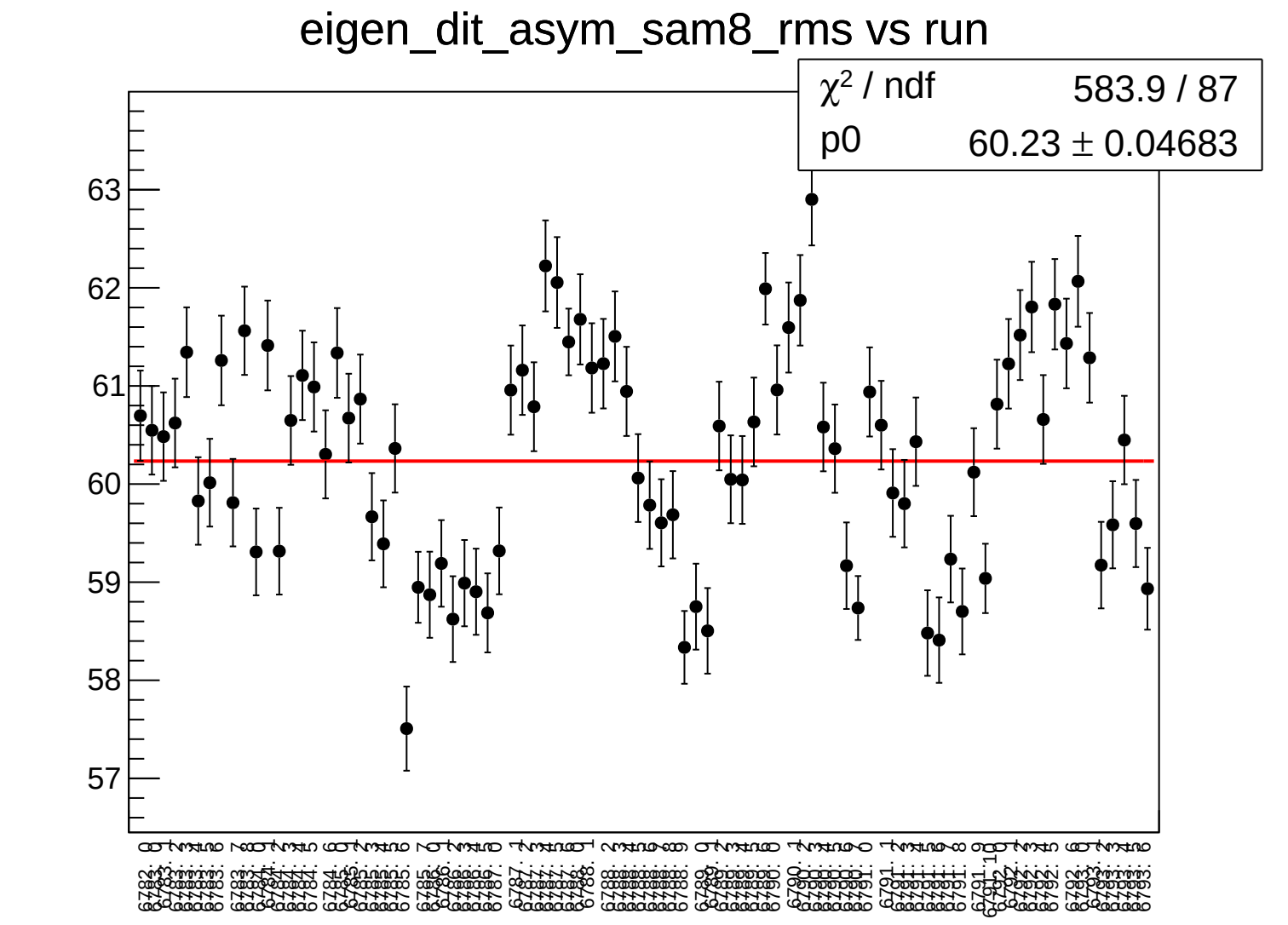

asym_sam8_dit_correction_mean vs run
χ² / ndf 71.06 / 87
p0 −1085 ± 363
pull
Entries 88
Mean −934.5
Std Dev 0

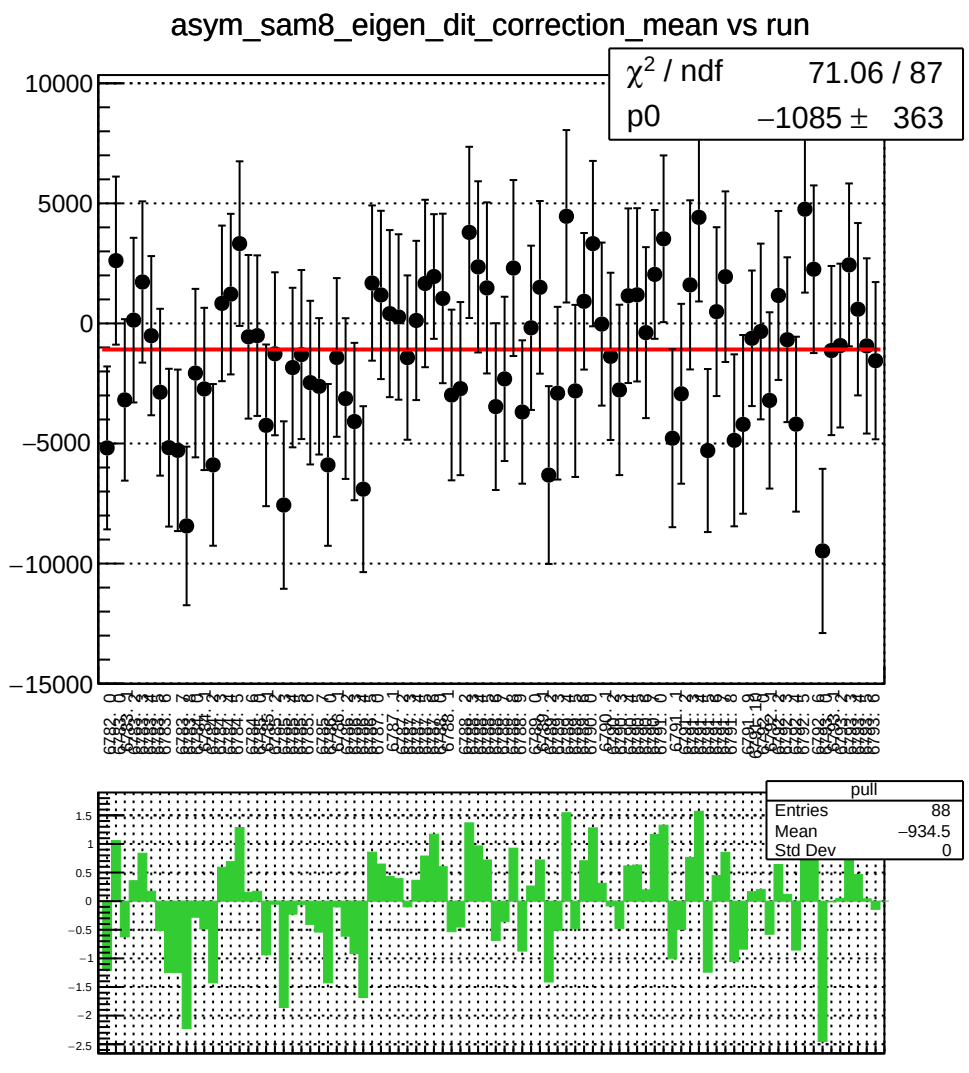

pull1D
Entries 88
Mean −0.004463
Std Dev 0.8986

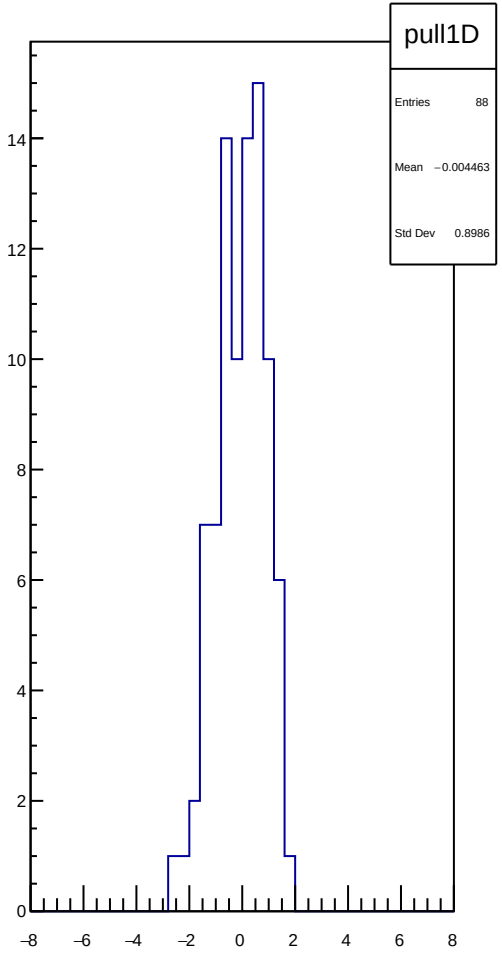

asym_sam8_dit_correction_rms vs run
χ² / ndf 1653 / 87
p0 330 ± 0.2566
360
350
340
330
320
310
300

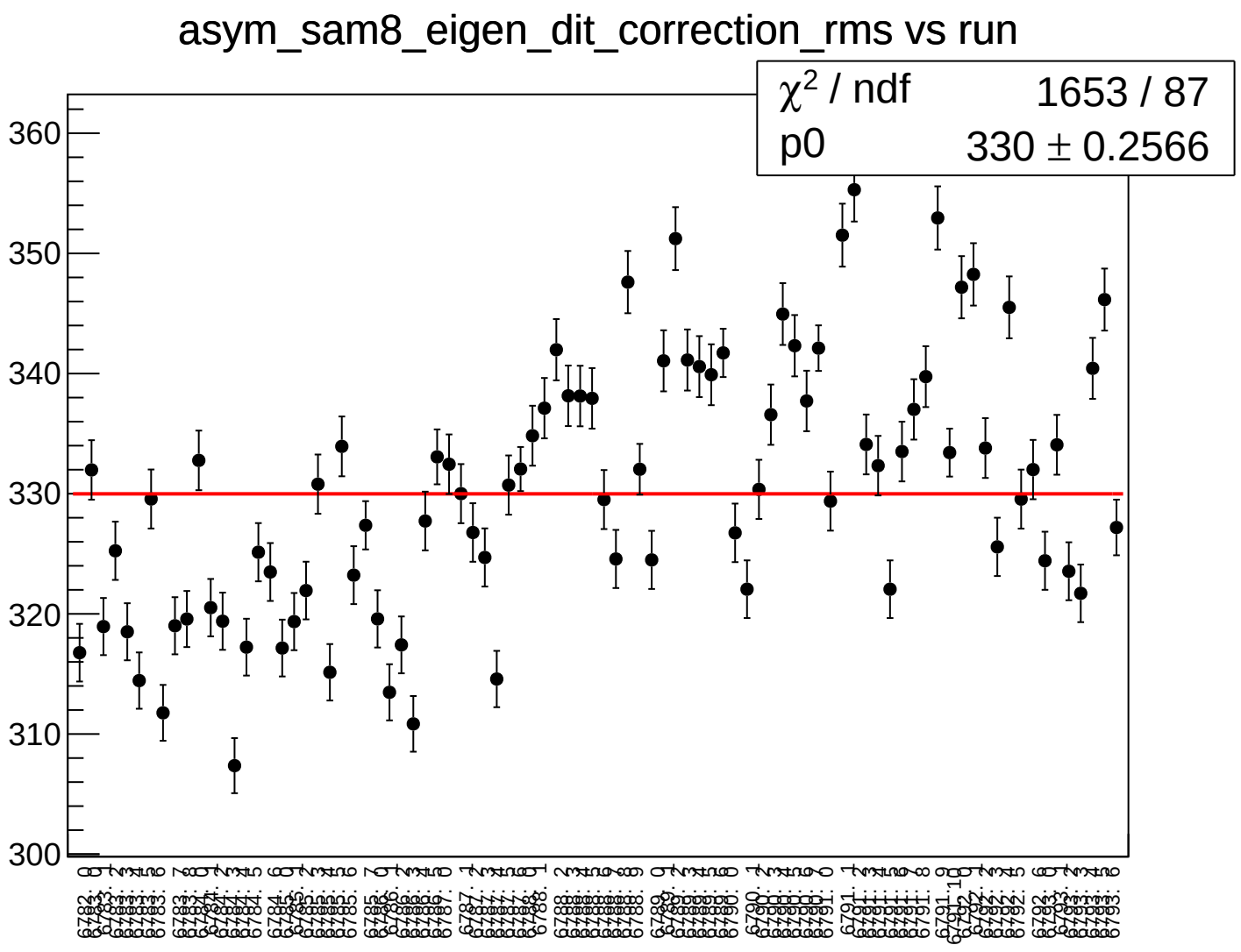

eigen_dit_asym_sam8_mean vs run
χ² / ndf 89.99 / 87
p0 −173.2 ± 66.23
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −269.8
Std Dev 0
2
1
0
−1
−2

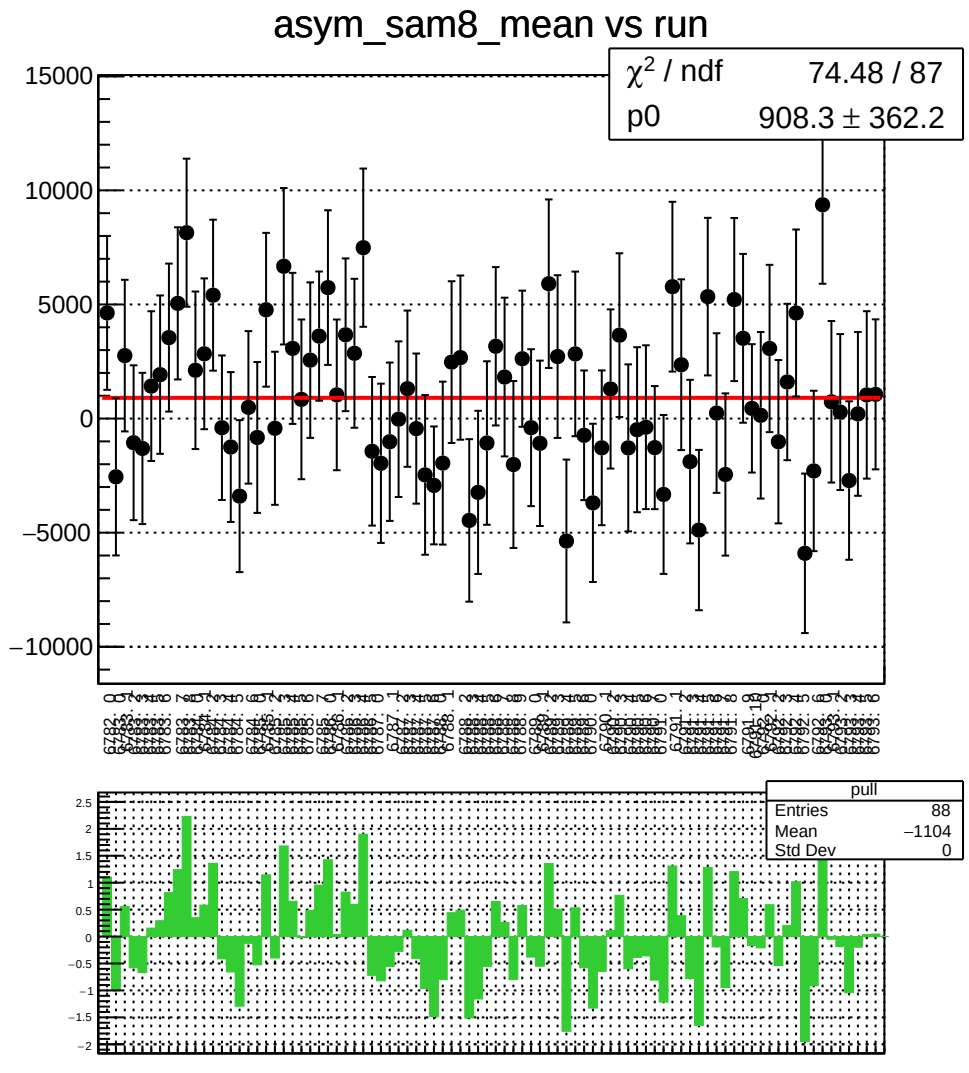

pull1D
Entries 88
Mean −0.009331
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

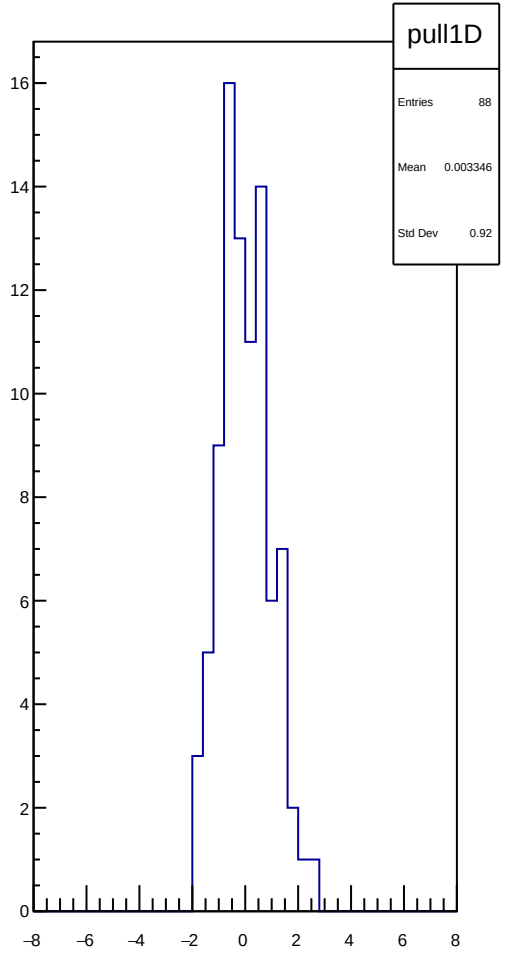

eigen_dit_asym_sam8_rms vs run
χ² / ndf 583.9 / 87
p0 60.23 ± 0.04683
63
62
61
60
59
58
57

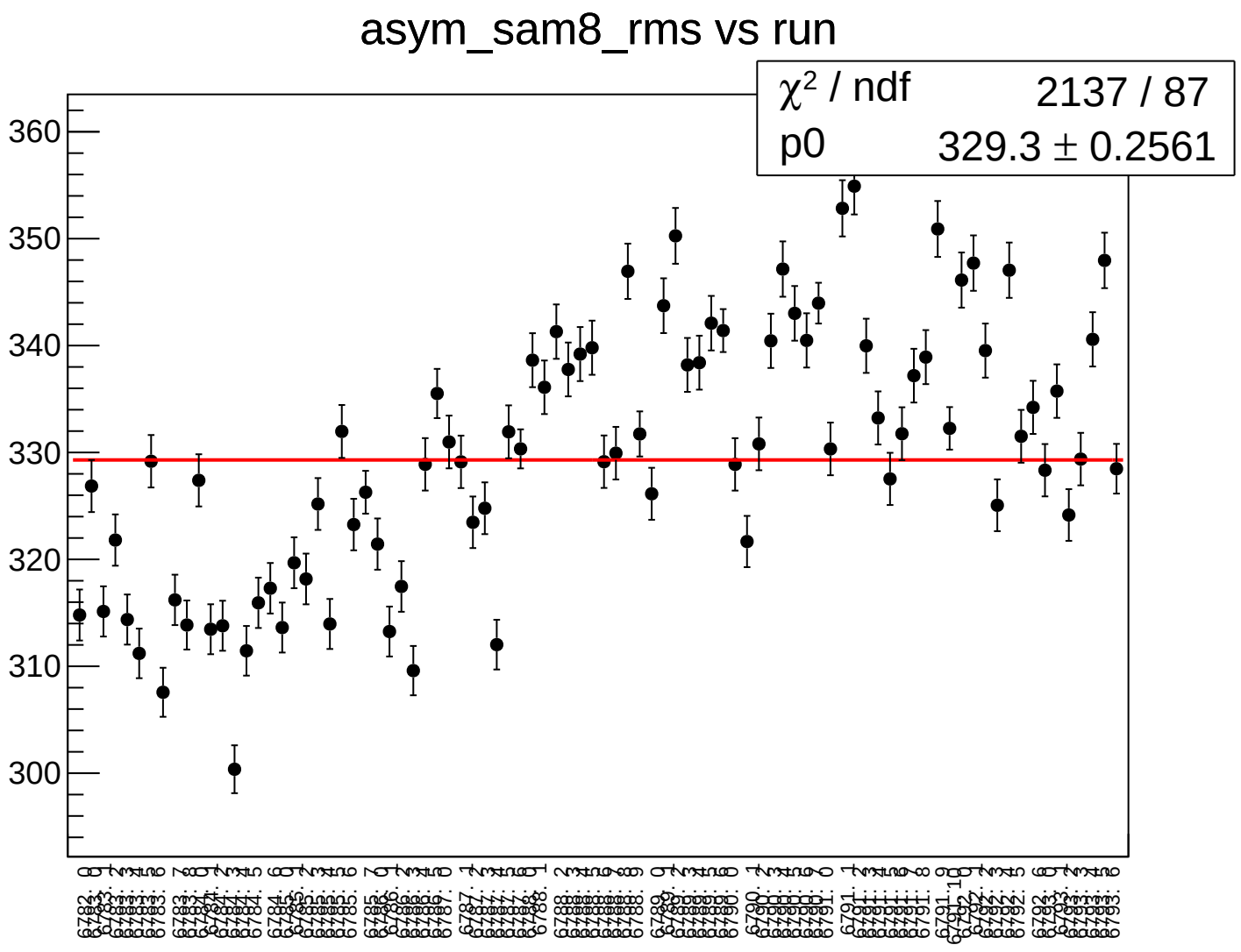

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 71.06 / 87
p0 −1085 ± 363
pull
Entries 88
Mean −934.5
Std Dev 0

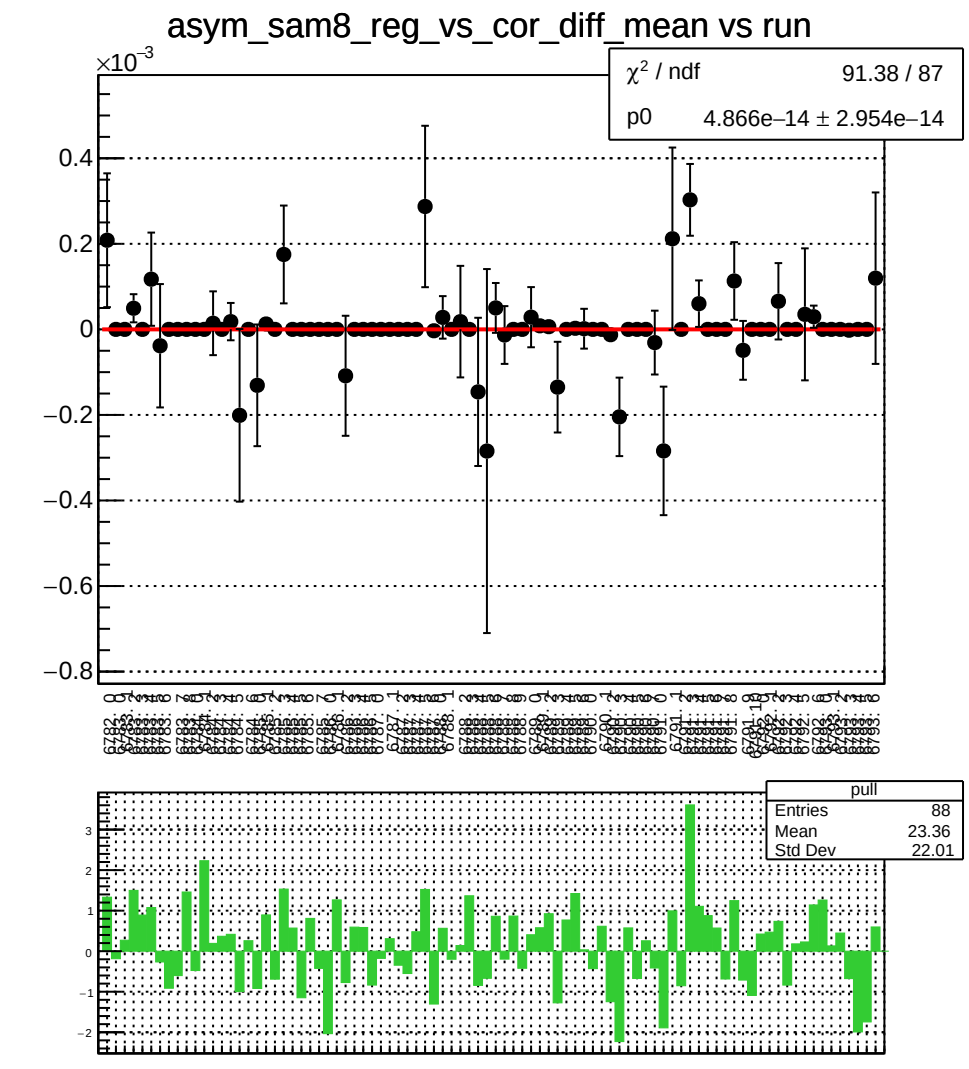

pull1D
Entries 88
Mean −0.004463
Std Dev 0.8986

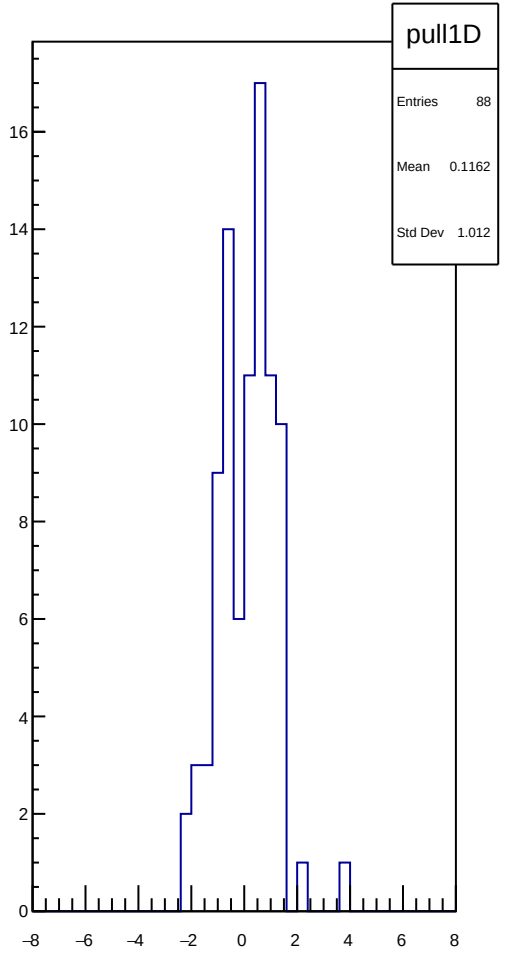

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1653 / 87
p0 330 ± 0.2566
360
350
340
330
320
310
300

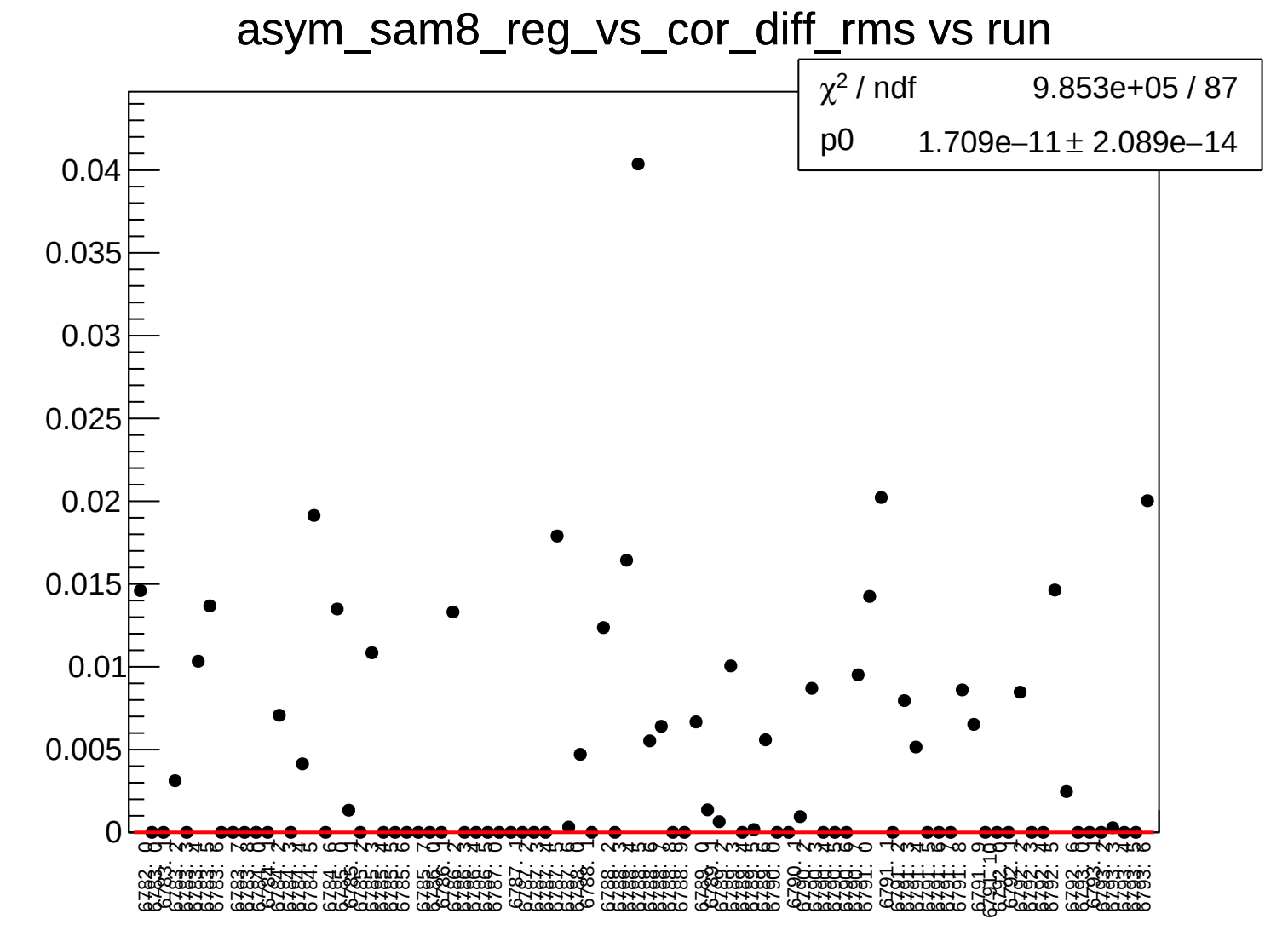

asym_sam8_mean vs run
χ² / ndf 74.48 / 87
p0 908.3 ± 362.2
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −1104
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

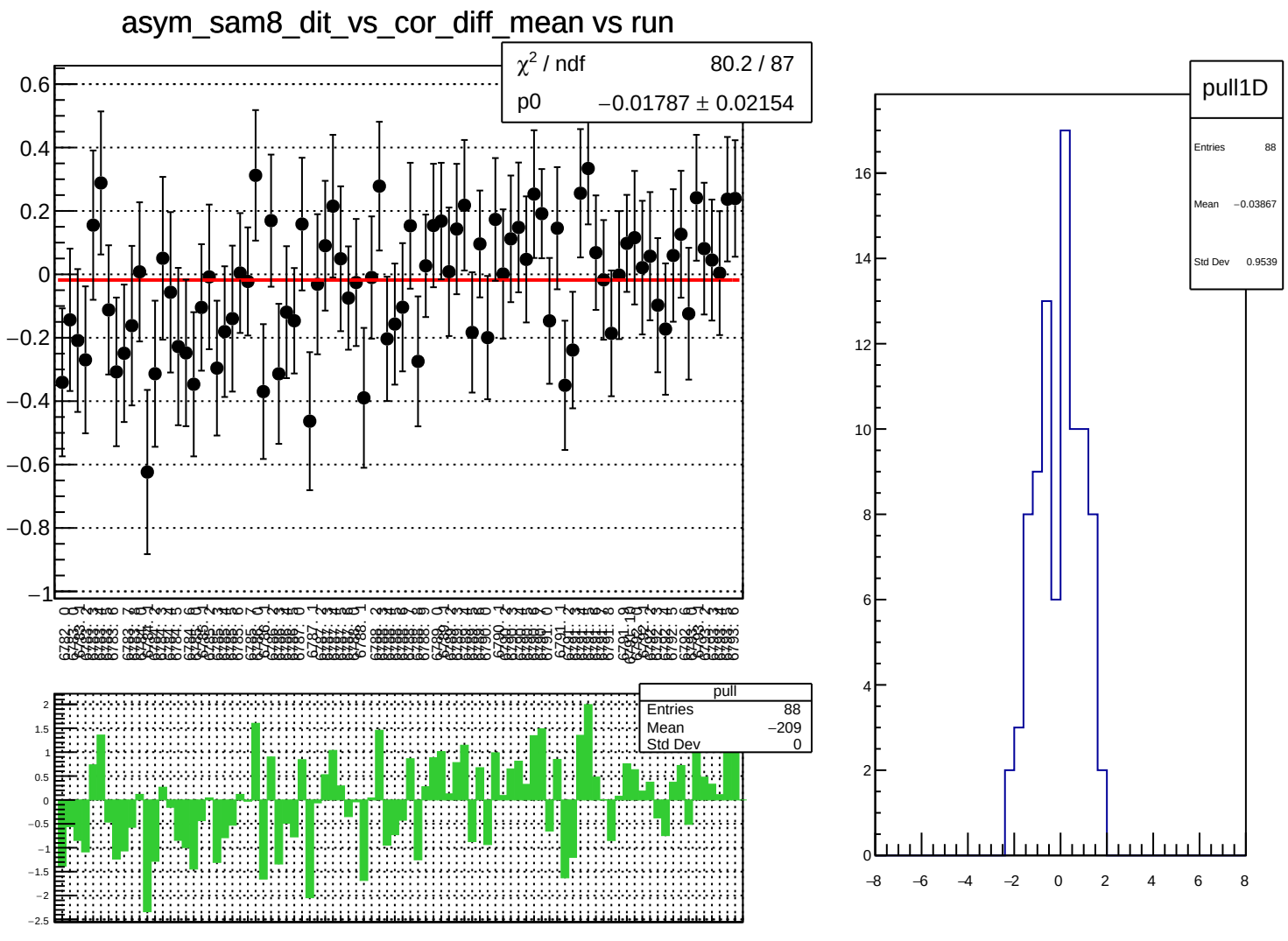

pull1D
Entries 88
Mean 0.003346
Std Dev 0.92
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

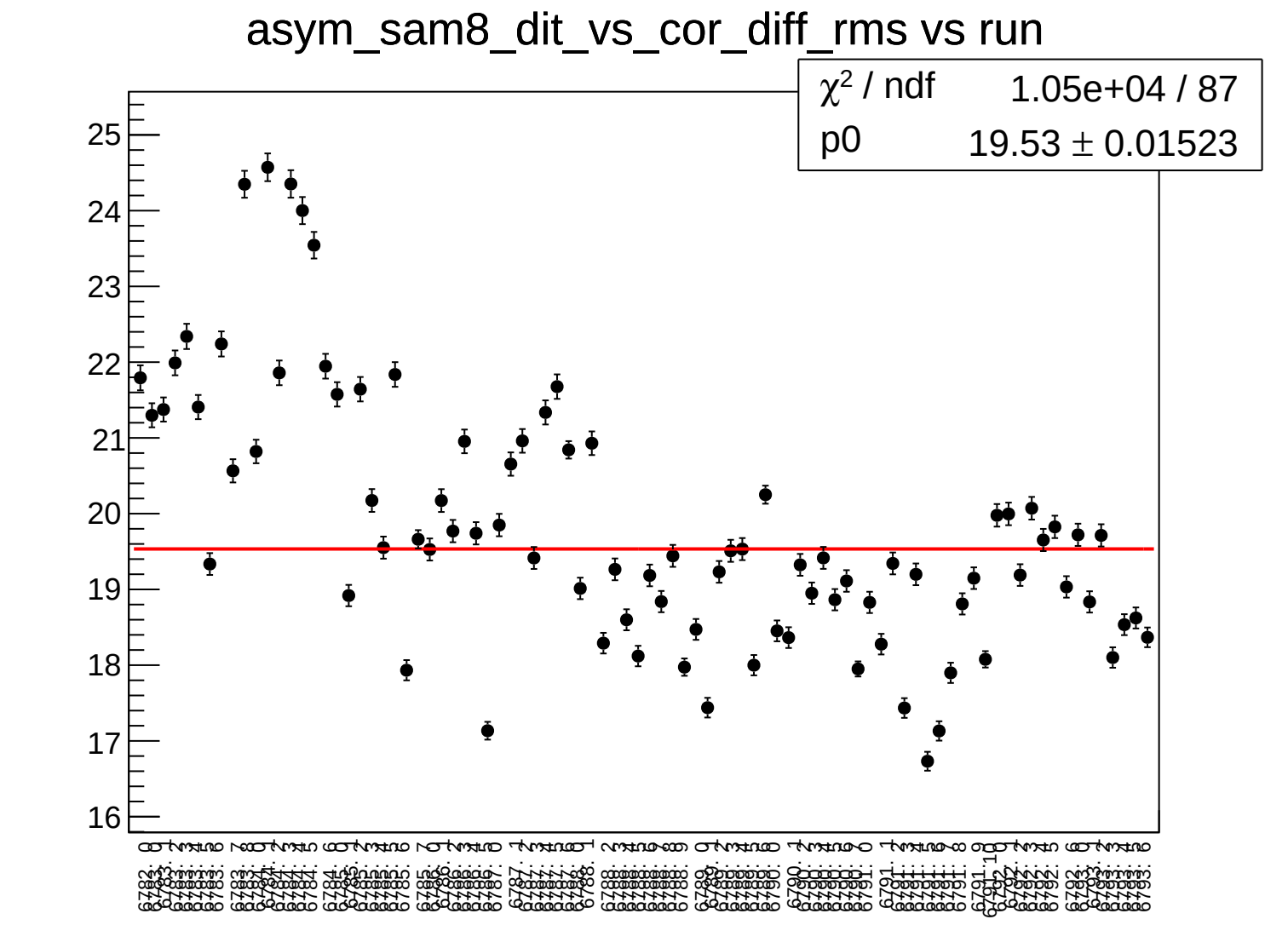

asym_sam8_rms vs run
χ² / ndf 2137 / 87
p0 329.3 ± 0.2561
360
350
340
330
320
310
300

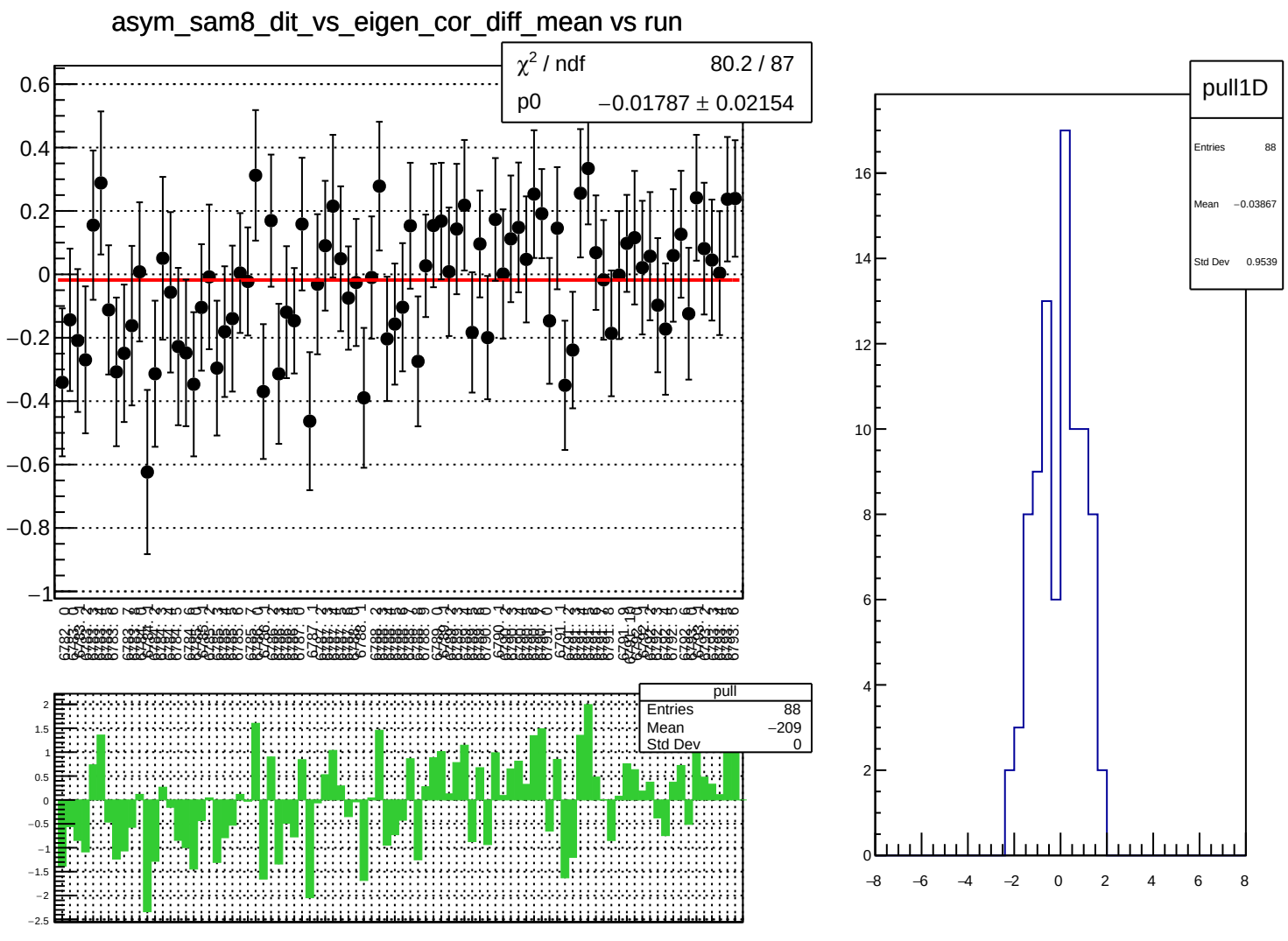

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.38 / 87
p0 4.866e−14 ± 2.954e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 88
Mean 23.36
Std Dev 22.01
3
2
1
0
−1
−2

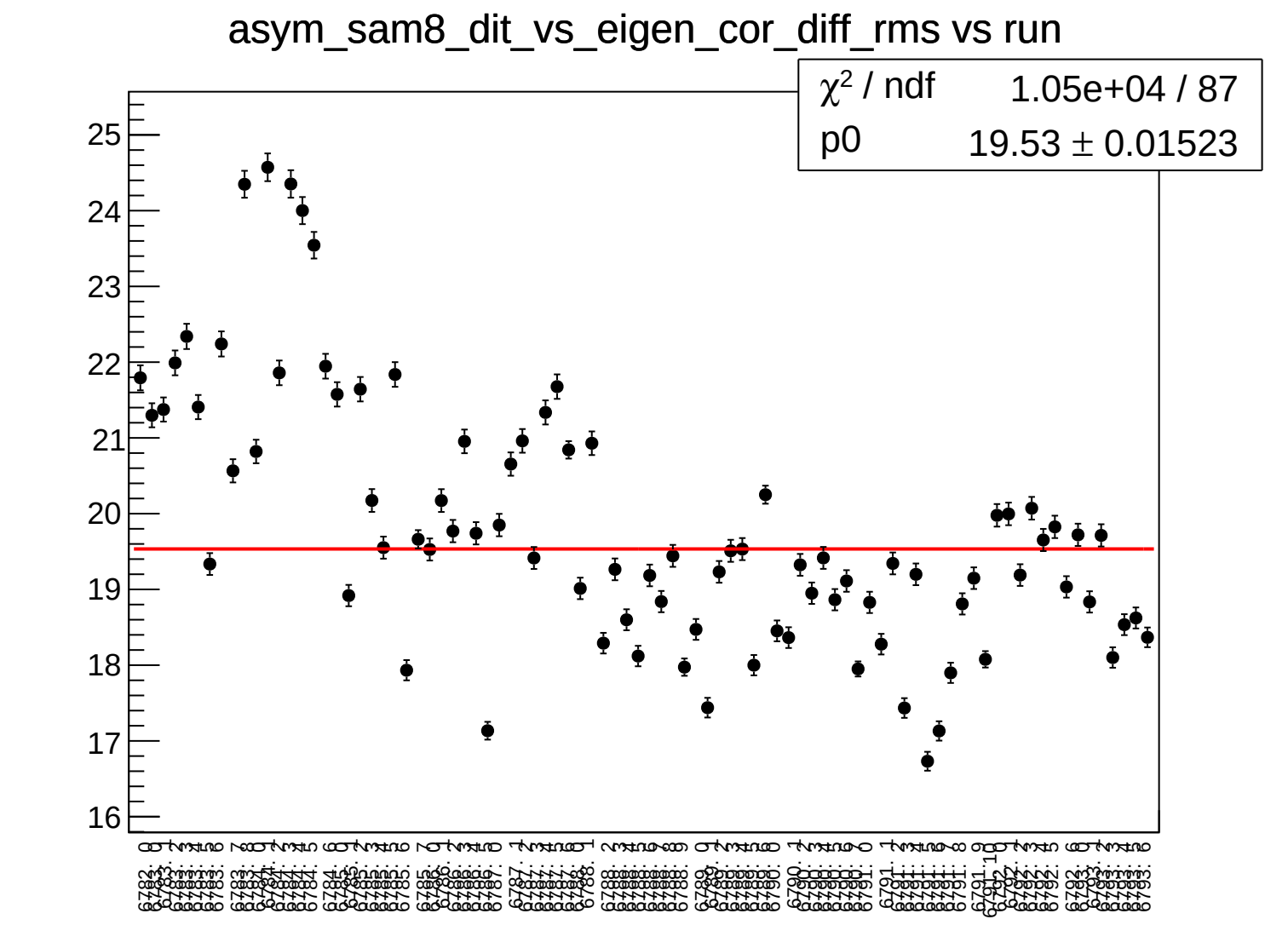

pull1D
Entries 88
Mean 0.1162
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

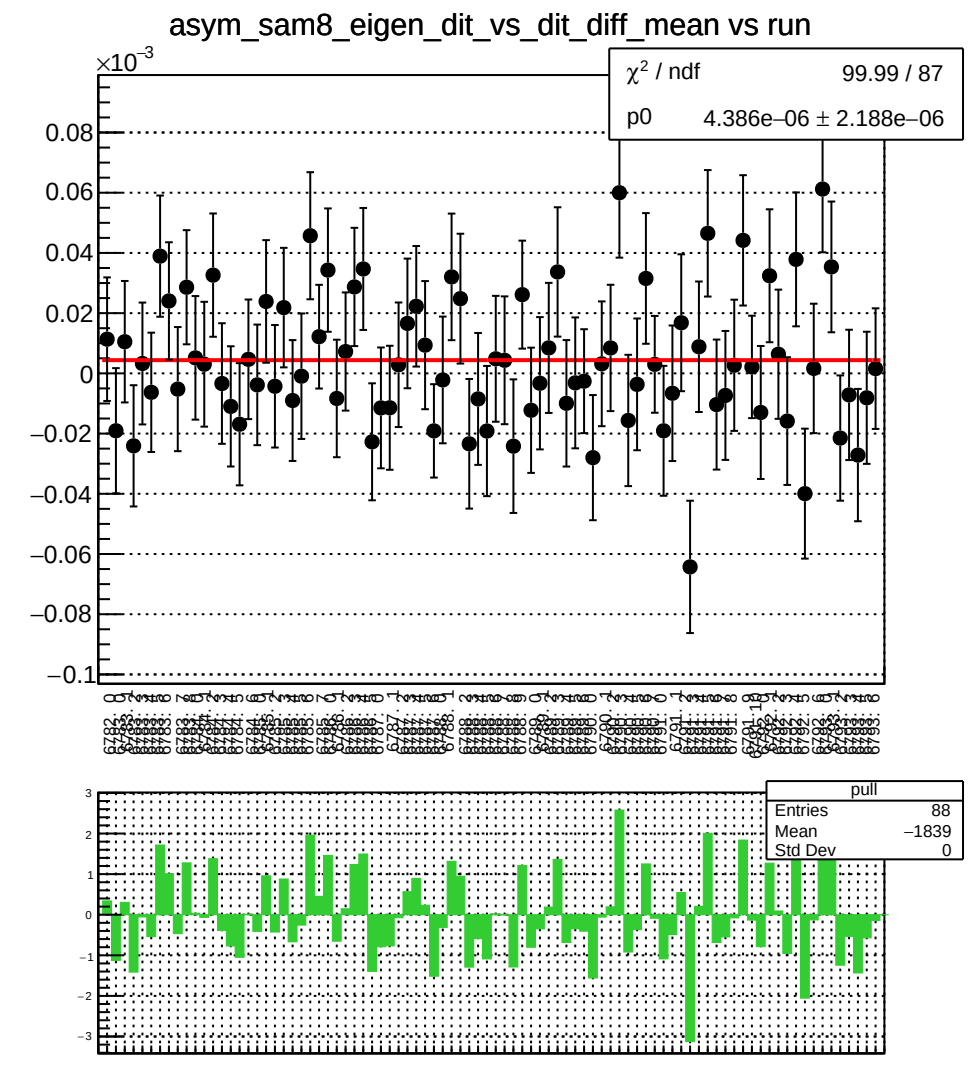

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 9.853e+05 / 87
p0 1.709e−11 ± 2.089e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

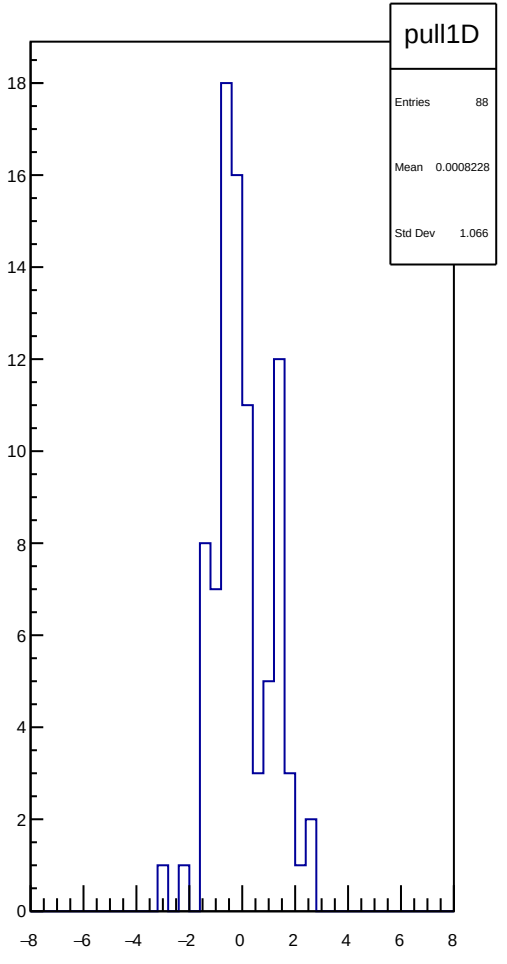

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 80.2 / 87
p0 −0.01787 ± 0.02154
pull
Entries 88
Mean −209
Std Dev 0
pull1D
Entries 88
Mean −0.03867
Std Dev 0.9539

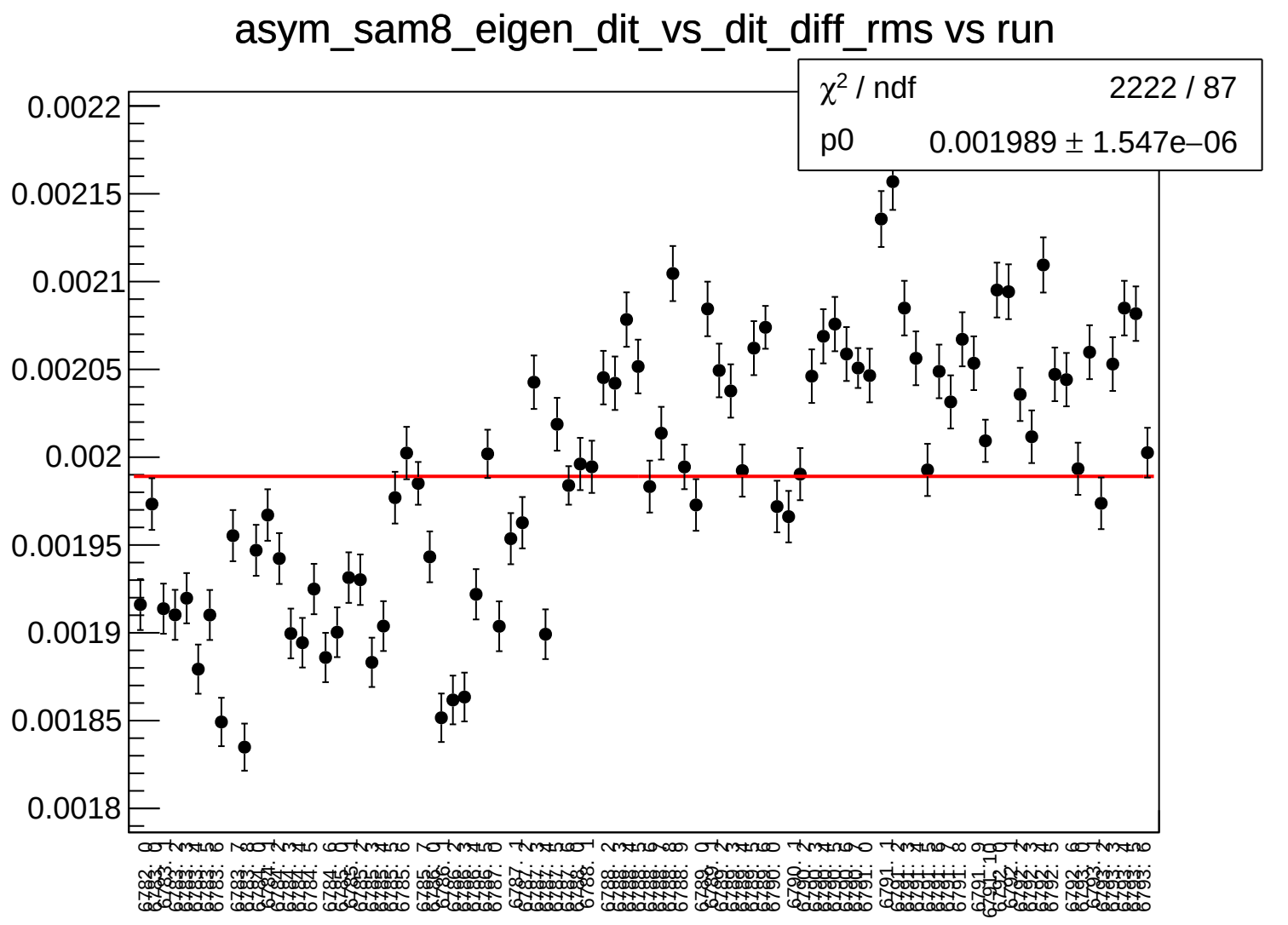

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.05e+04 / 87
p0 19.53 ± 0.01523
25
24
23
22
21
20
19
18
17
16

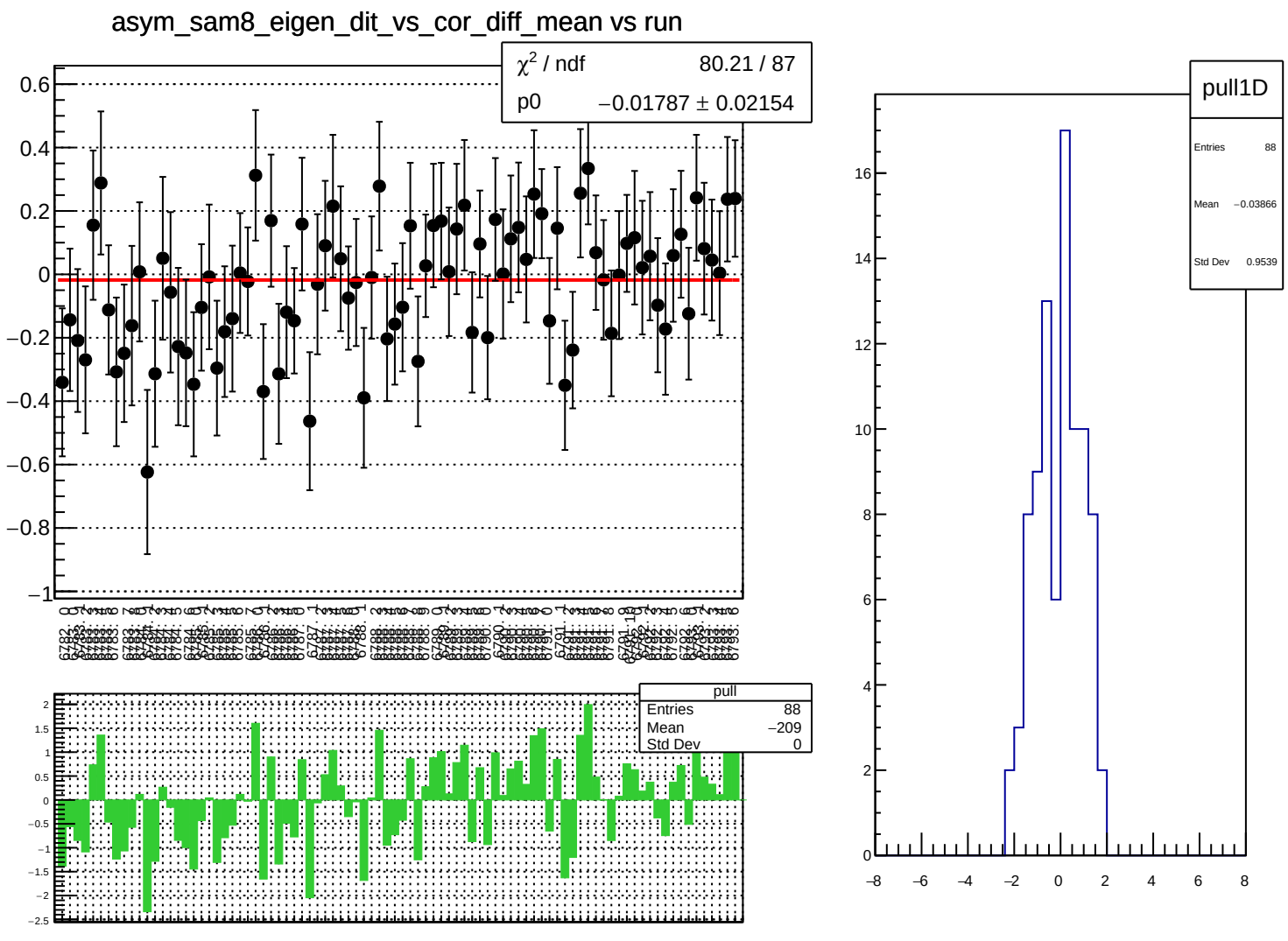

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.2 / 87
p0 −0.01787 ± 0.02154
pull
Entries 88
Mean −209
Std Dev 0
pull1D
Entries 88
Mean −0.03867
Std Dev 0.9539

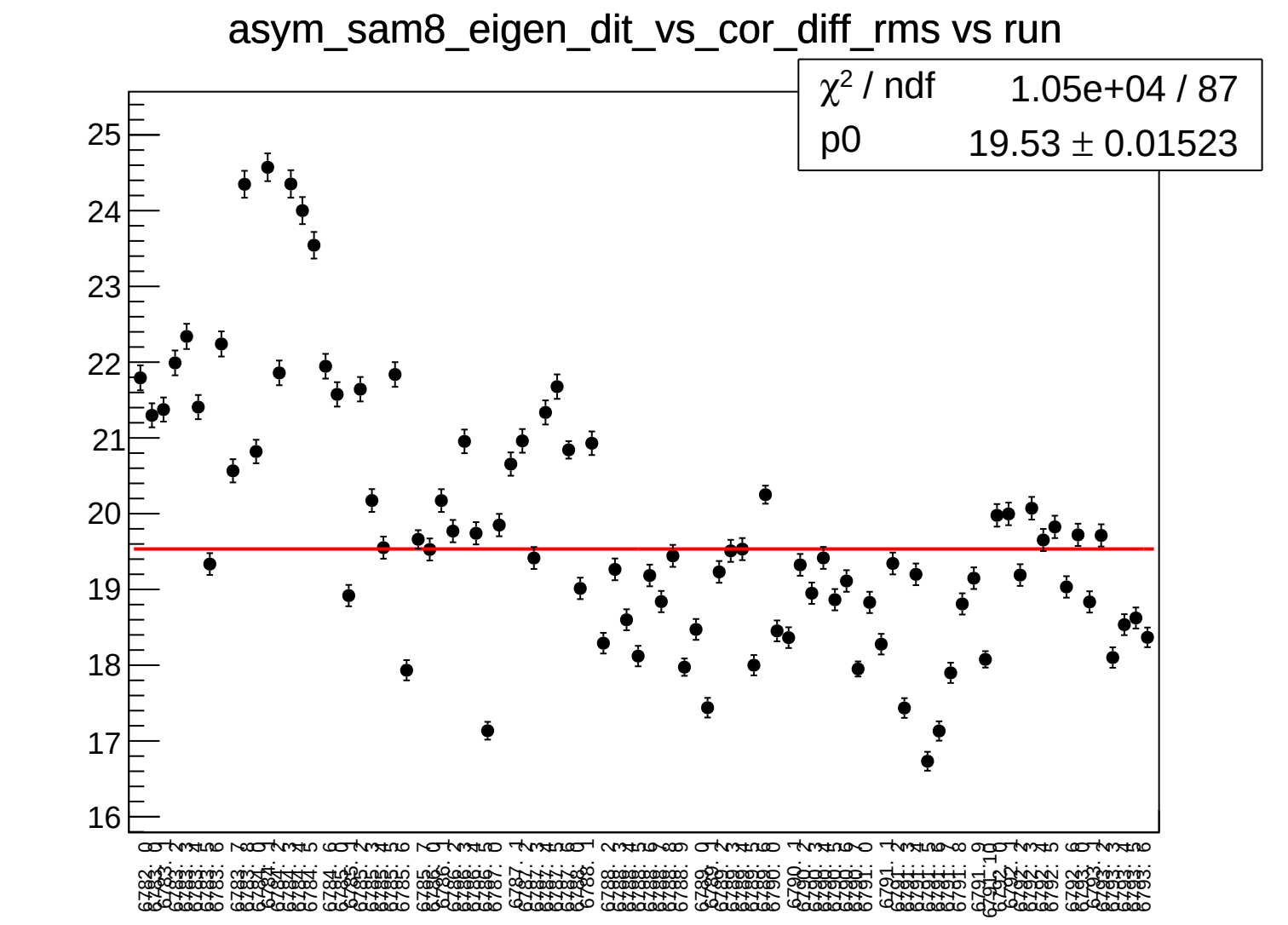

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.05e+04 / 87
p0 19.53 ± 0.01523
25
24
23
22
21
20
19
18
17
16

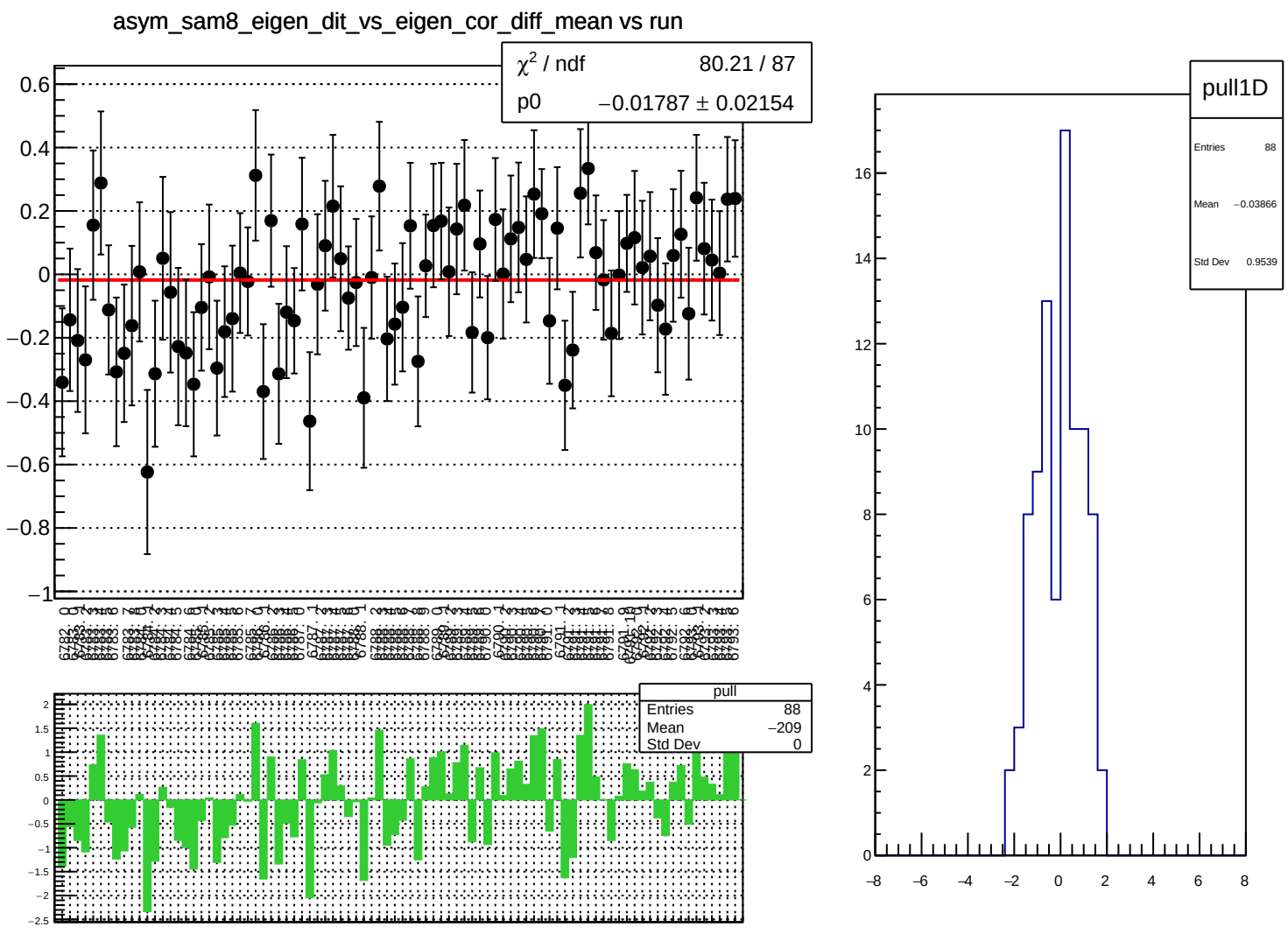

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.99 / 87
p0 4.386e−06 ± 2.188e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 88
Mean −1839
Std Dev 0
3
2
1
0
−1
−2
−3

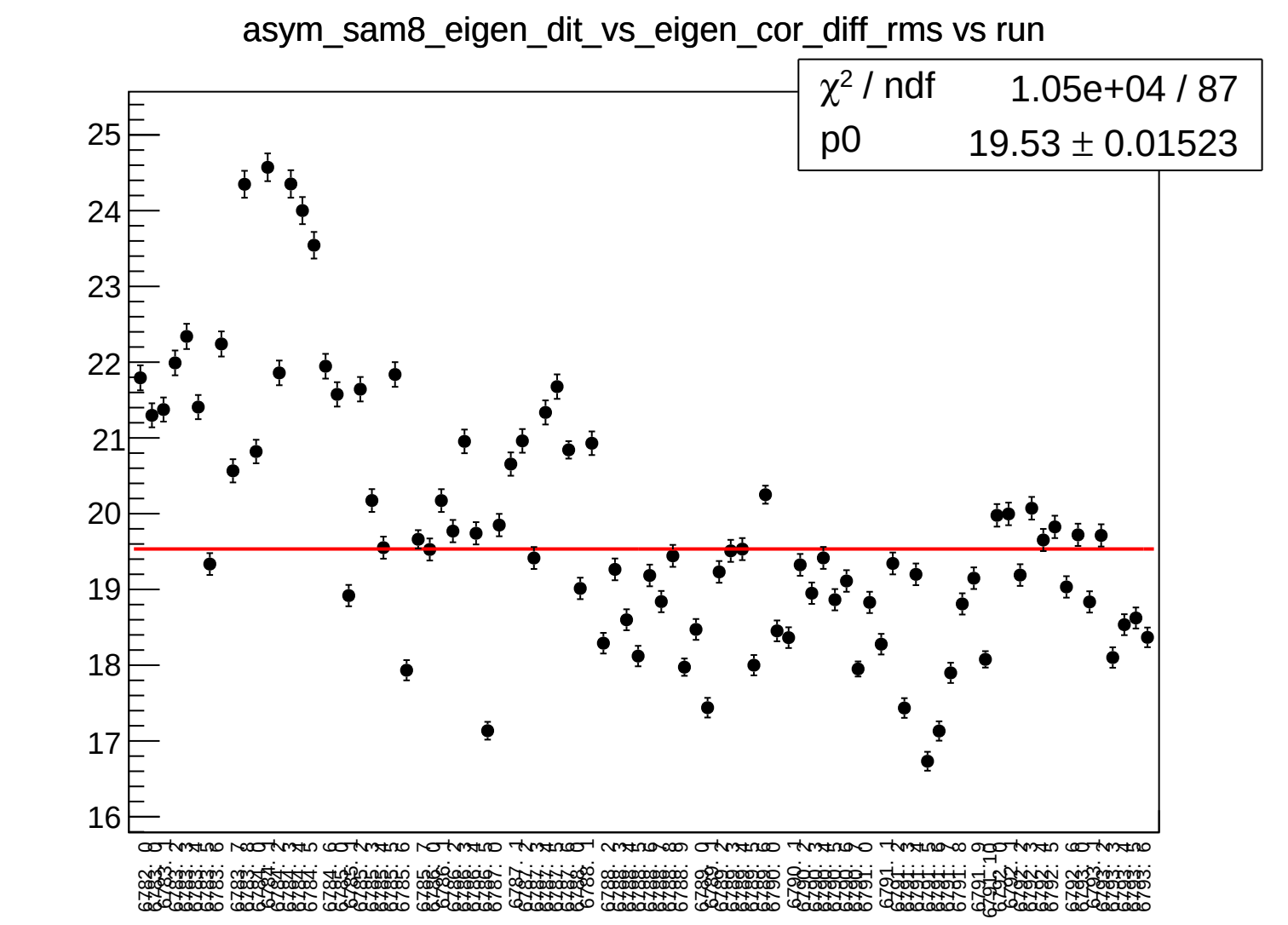

pull1D
Entries 88
Mean 0.0008228
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

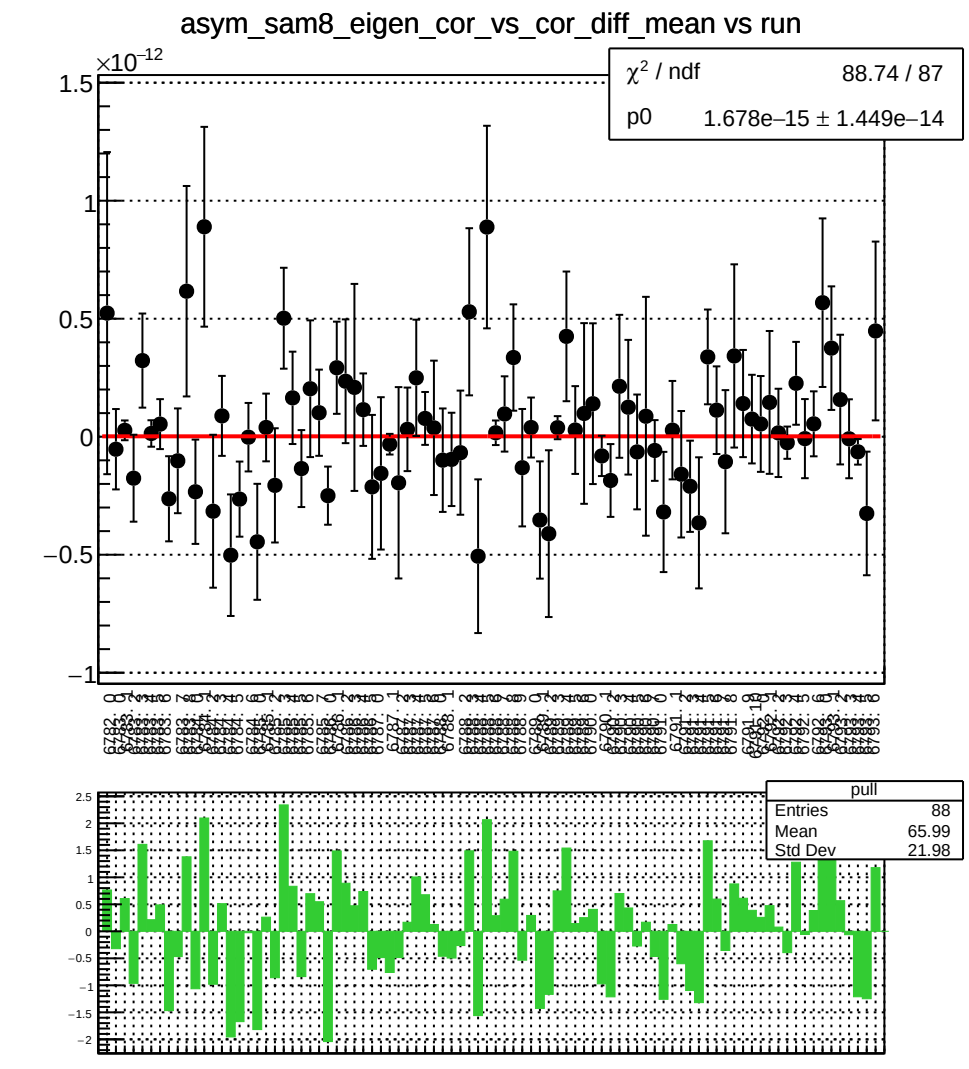

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2222 / 87
p0 0.001989 ± 1.547e−06
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018

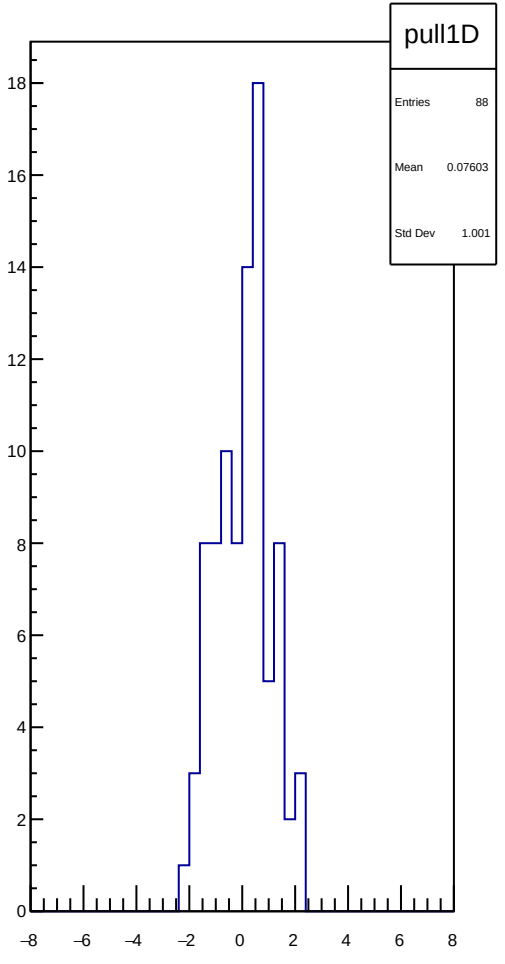

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.21 / 87
p0 −0.01787 ± 0.02154
pull
Entries 88
Mean −209
Std Dev 0
pull1D
Entries 88
Mean −0.03866
Std Dev 0.9539

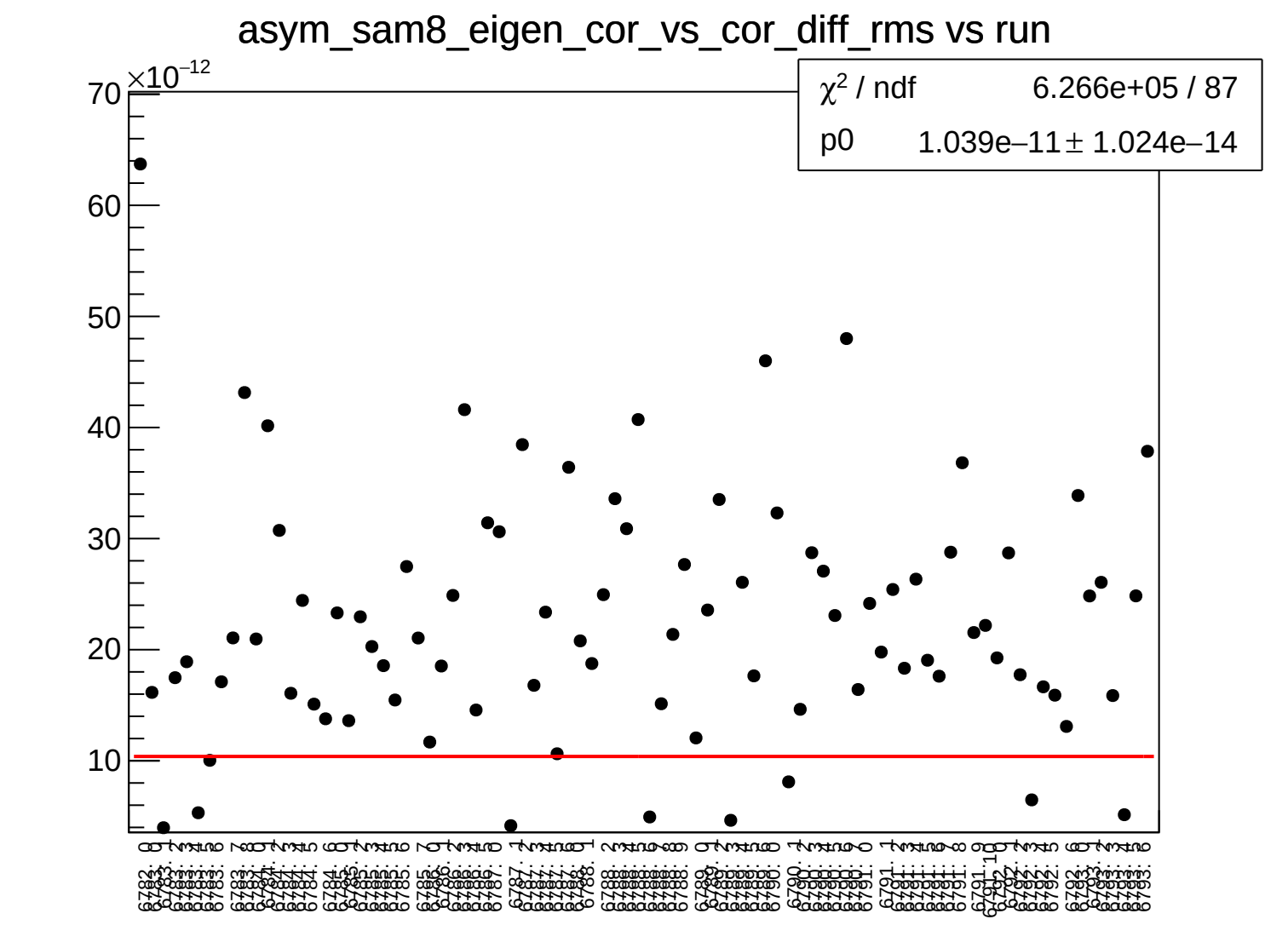

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.05e+04 / 87
p0 19.53 ± 0.01523
25
24
23
22
21
20
19
18
17
16

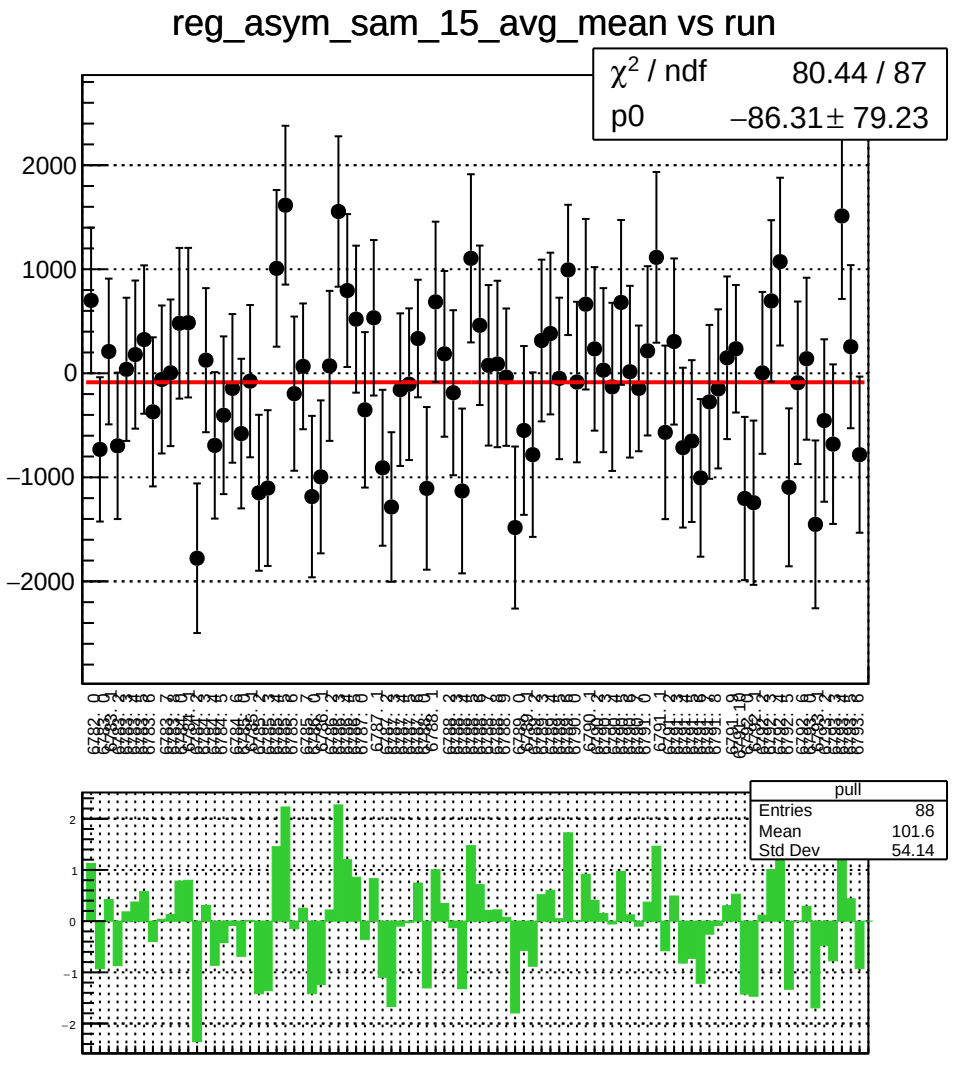

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.21 / 87
p0 −0.01787 ± 0.02154
pull
Entries 88
Mean −209
Std Dev 0
pull1D
Entries 88
Mean −0.03866
Std Dev 0.9539

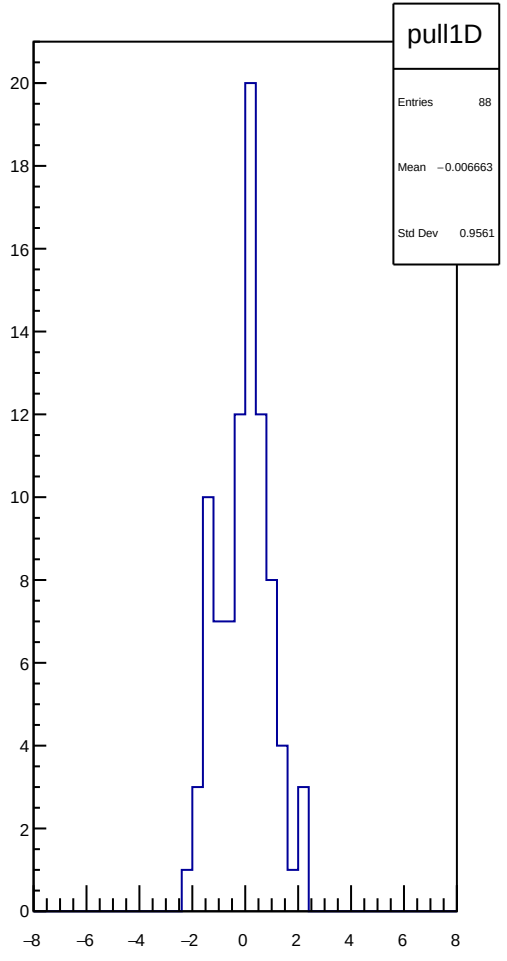

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.05e+04 / 87
p0 19.53 ± 0.01523
25
24
23
22
21
20
19
18
17
16

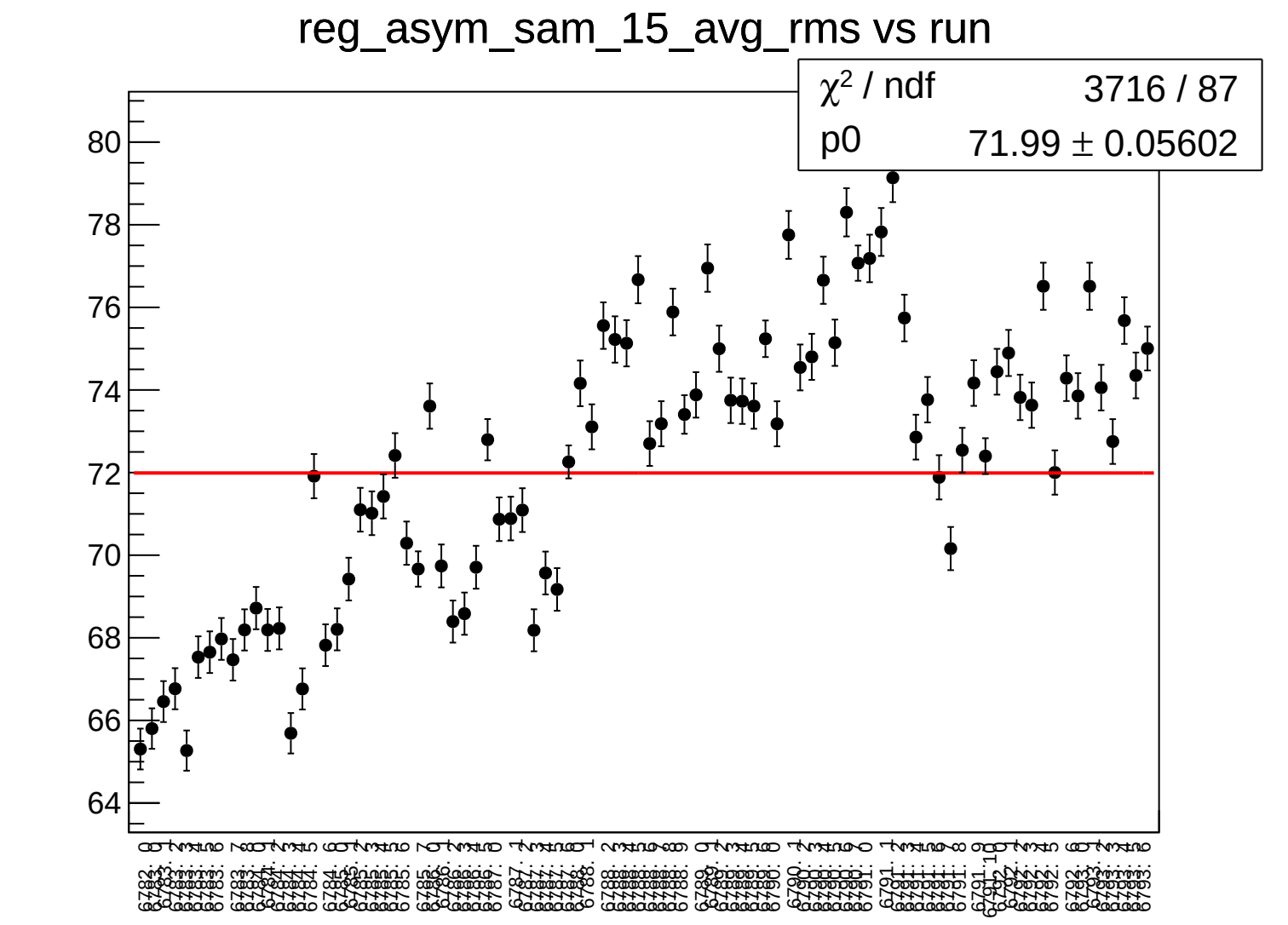

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.74 / 87
p0 1.678e−15 ± 1.449e−14
pull
Entries 88
Mean 65.99
Std Dev 21.98

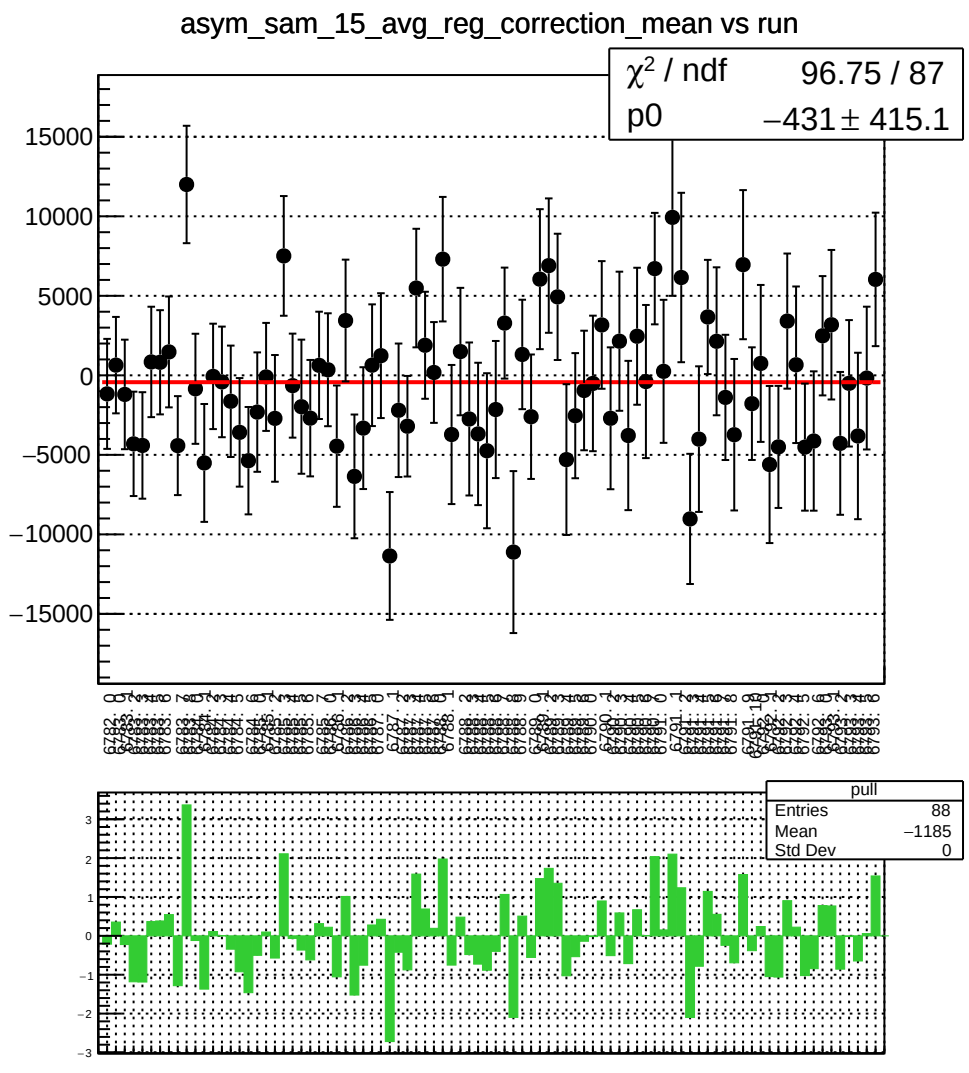

pull1D
Entries 88
Mean 0.07603
Std Dev 1.001

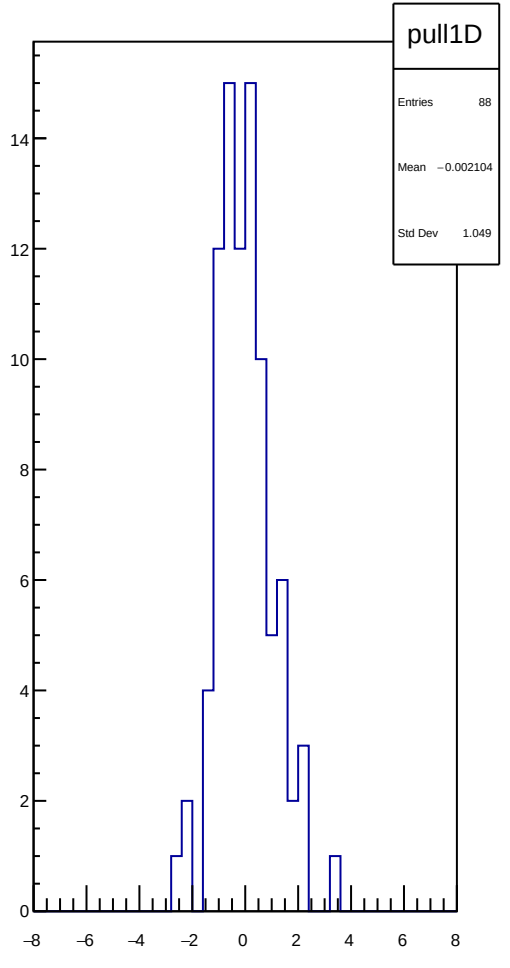

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
$\times 10^{-12}$
χ^2 / ndf 6.266e+05 / 87
p0 1.039e−11 ± 1.024e−14
70
60
50
40
30
20
10

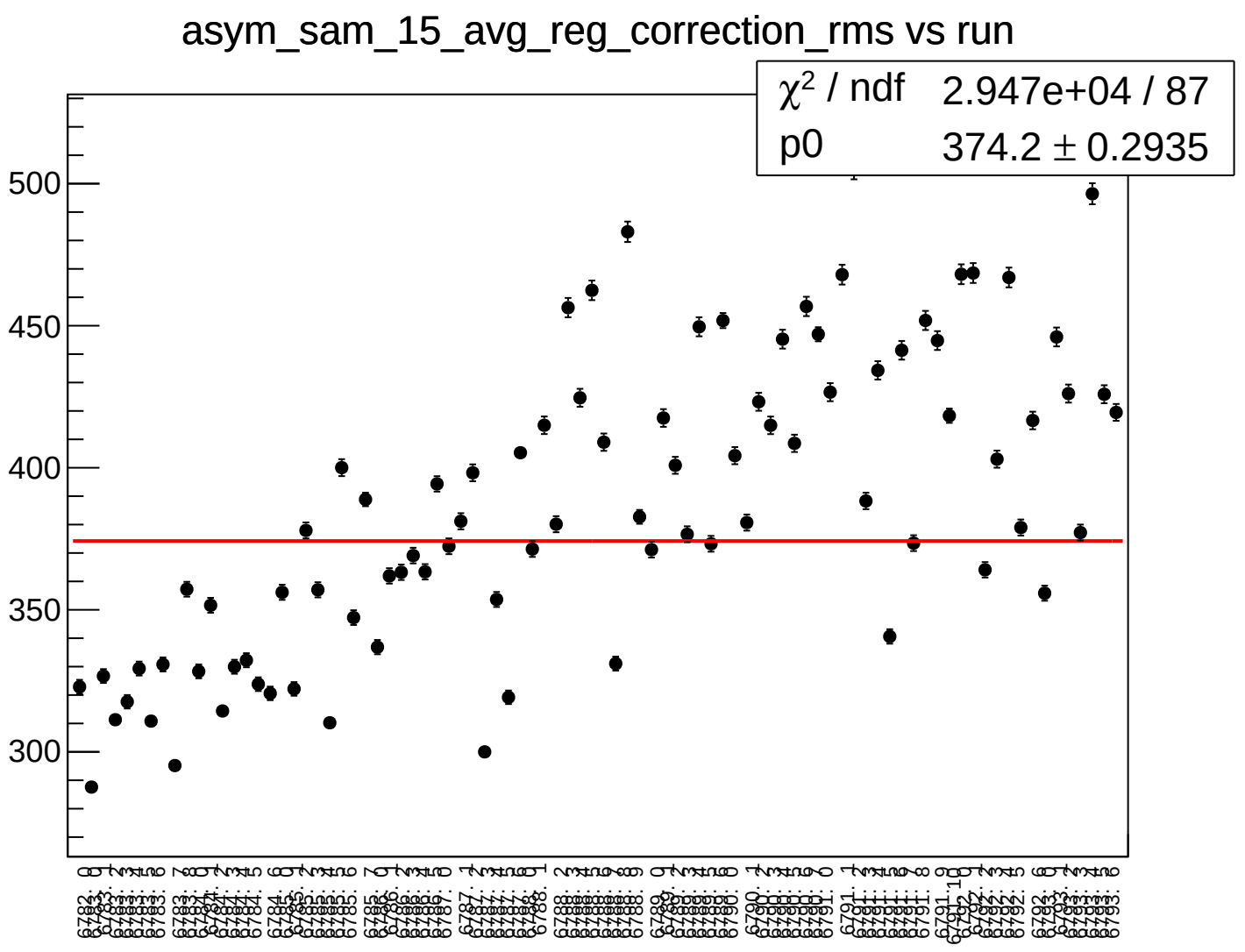

reg_asym_sam_15_avg_mean vs run
χ² / ndf 80.44 / 87
p0 −86.31 ± 79.23
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 101.6
Std Dev 54.14
2
1
0
−1
−2

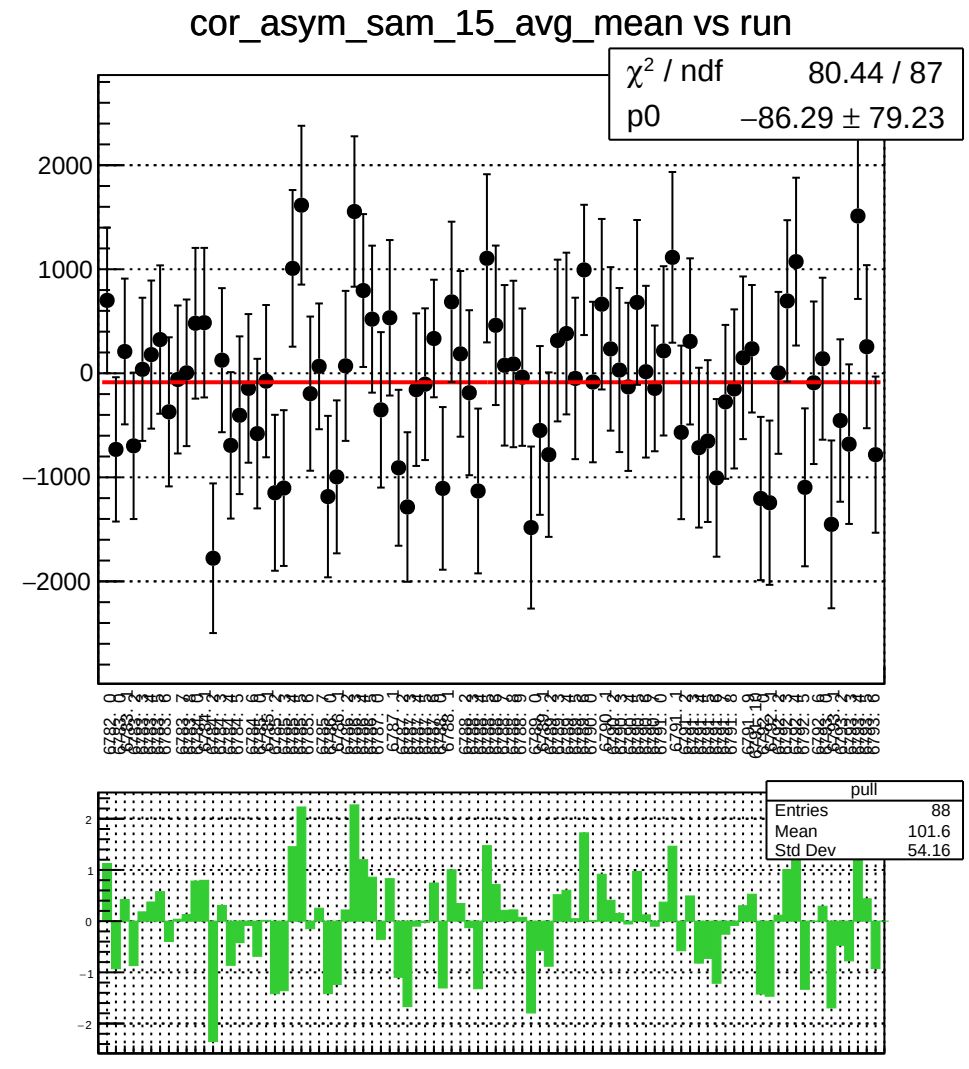

pull1D
Entries 88
Mean −0.006663
Std Dev 0.9561
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

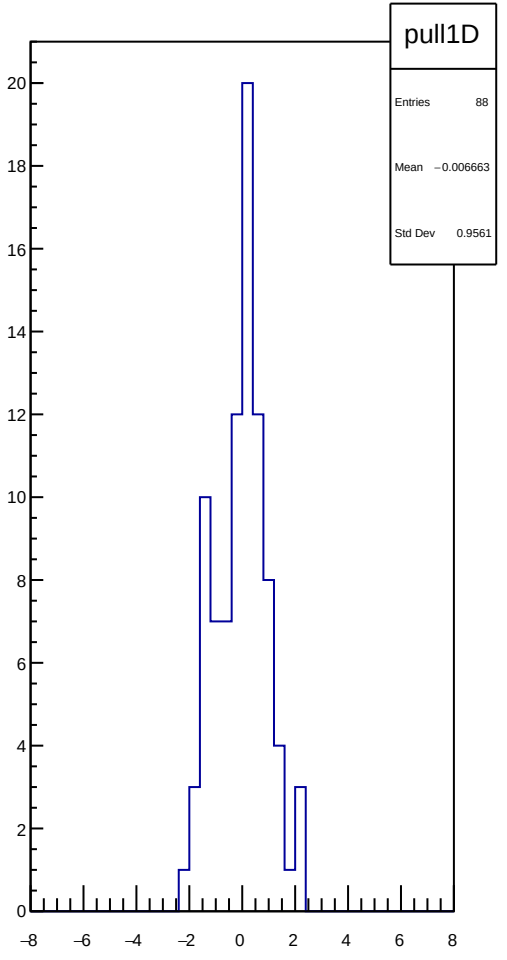

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 3716 / 87
p0 71.99 ± 0.05602
80
78
76
74
72
70
68
66
64

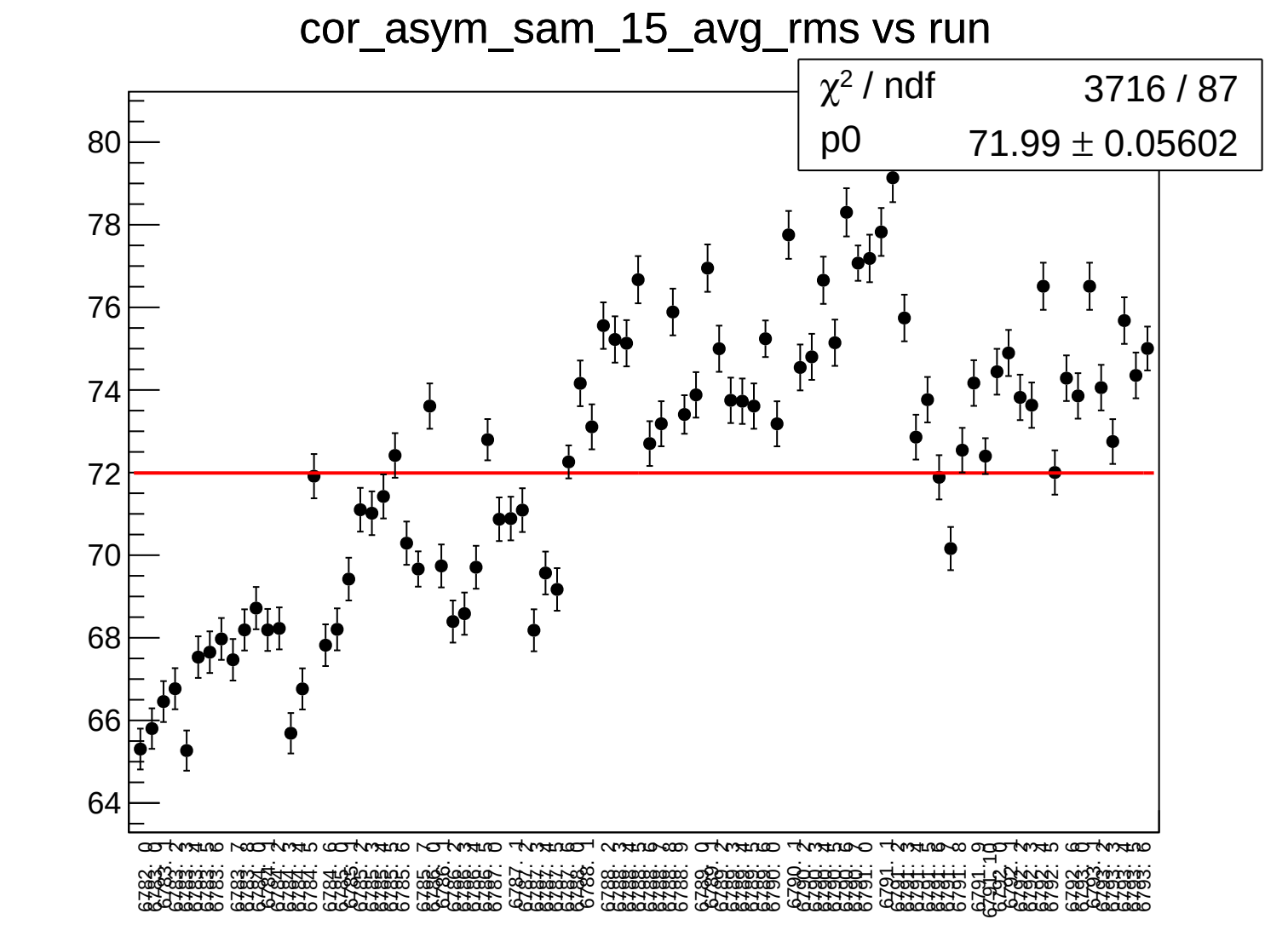

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 96.75 / 87
p0 −431 ± 415.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1185
Std Dev 0
3
2
1
0
−1
−2
−3

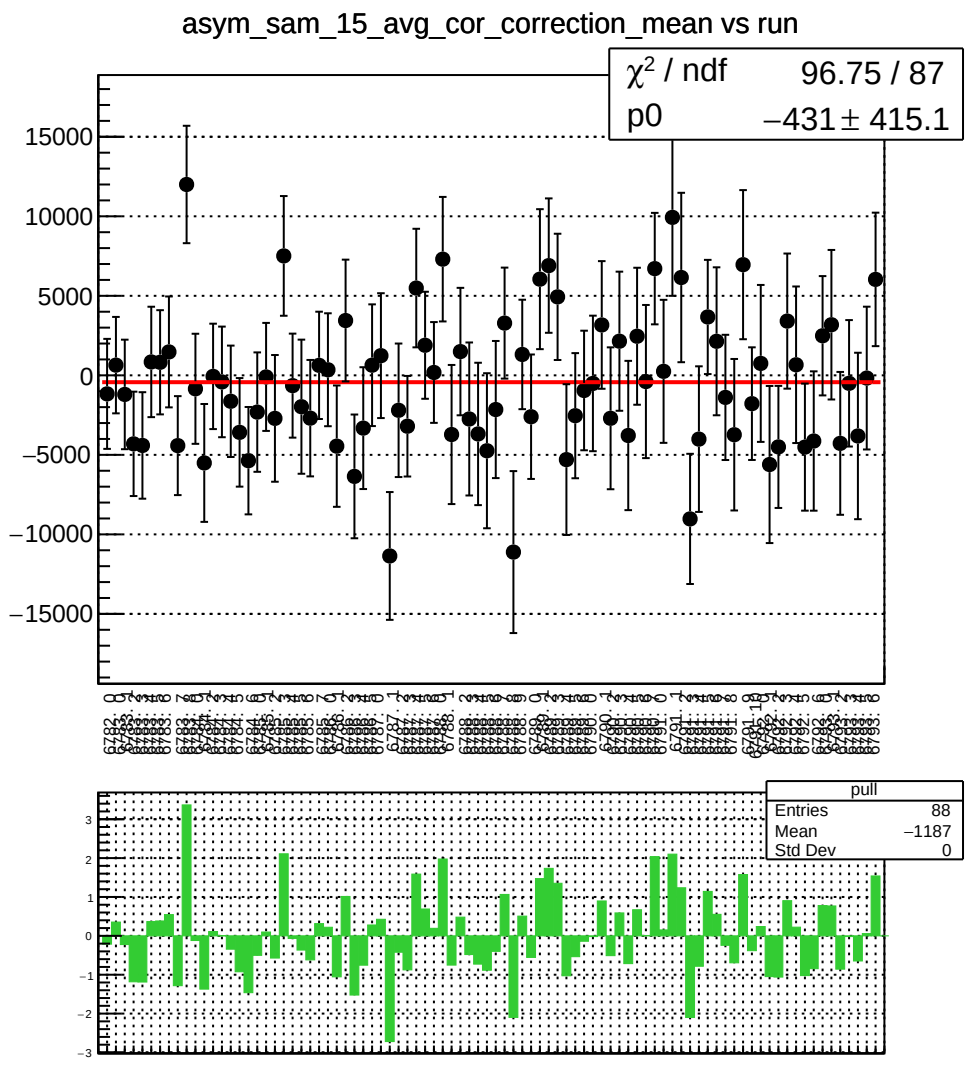

pull1D
Entries 88
Mean −0.002104
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

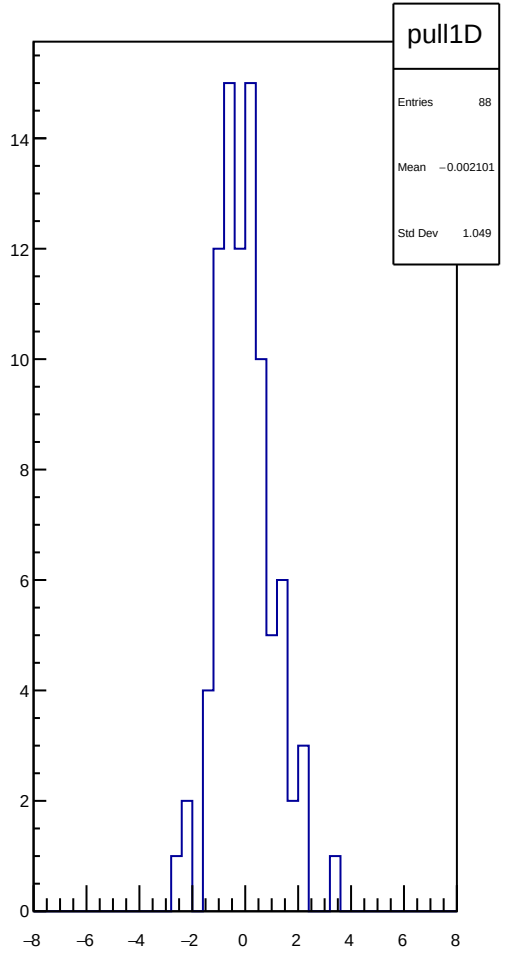

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 2.947e+04 / 87
p0 374.2 ± 0.2935
500
450
400
350
300

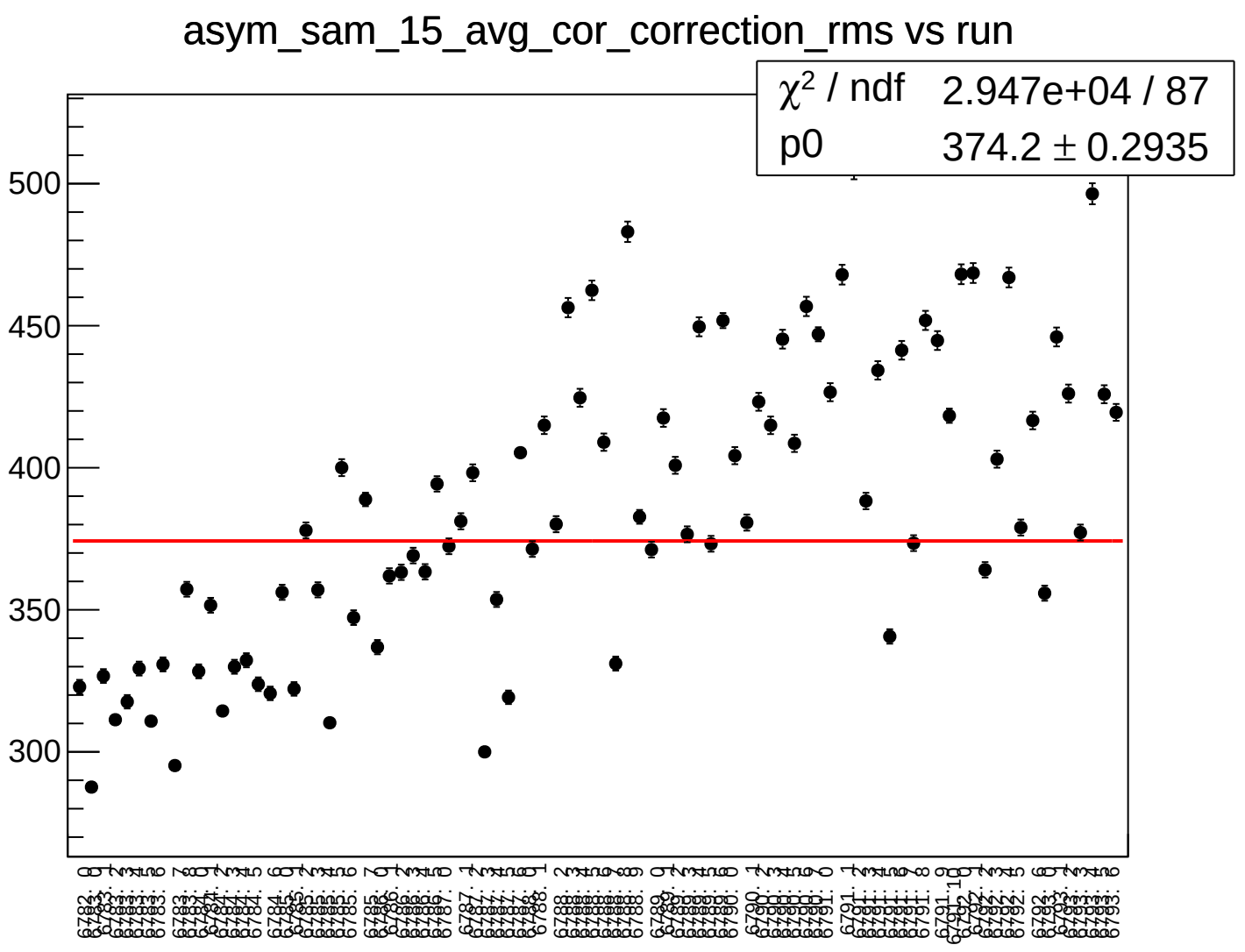

cor_asym_sam_15_avg_mean vs run
χ² / ndf 80.44 / 87
p0 −86.29 ± 79.23
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 101.6
Std Dev 54.16
2
1
0
−1
−2

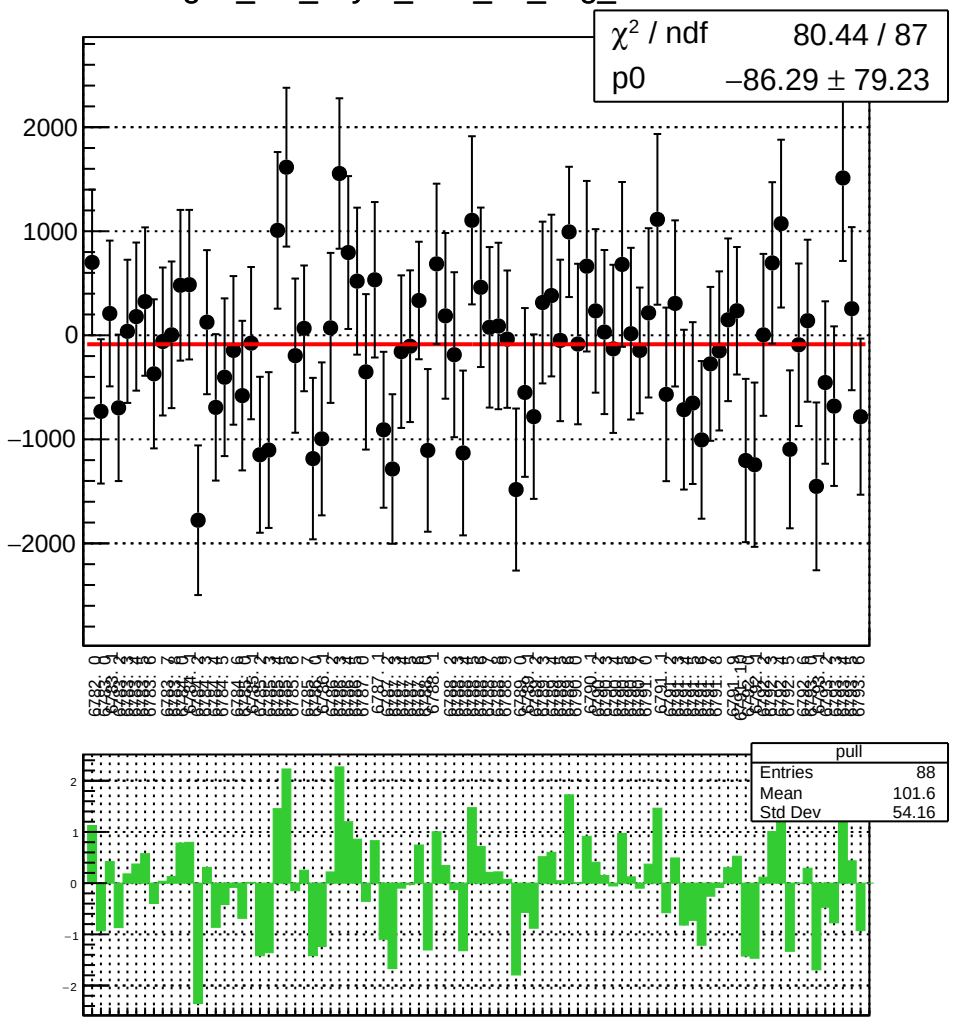

pull1D
Entries 88
Mean −0.006663
Std Dev 0.9561
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

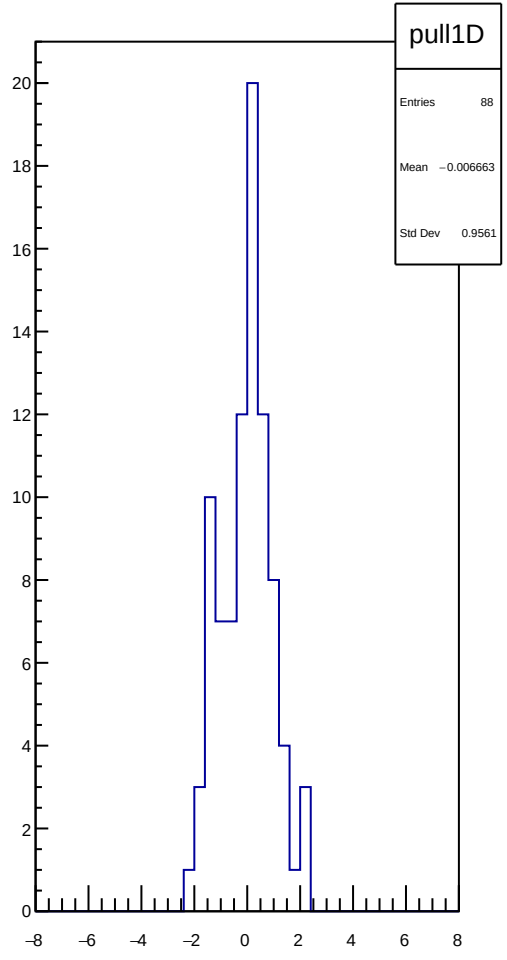

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 3716 / 87
p0 71.99 ± 0.05602
80
78
76
74
72
70
68
66
64

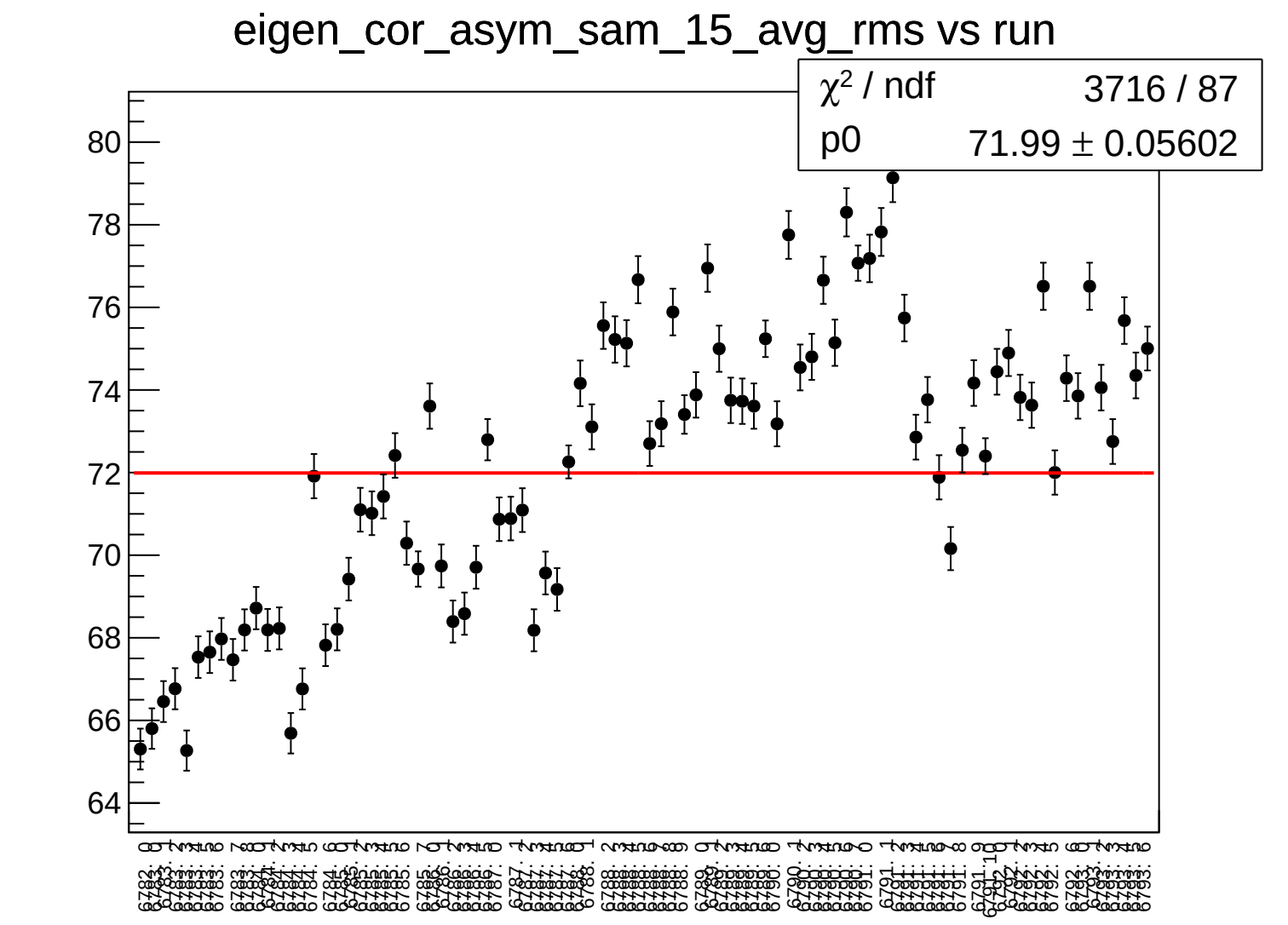

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 96.75 / 87
p0 −431 ± 415.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1187
Std Dev 0
3
2
1
0
−1
−2
−3

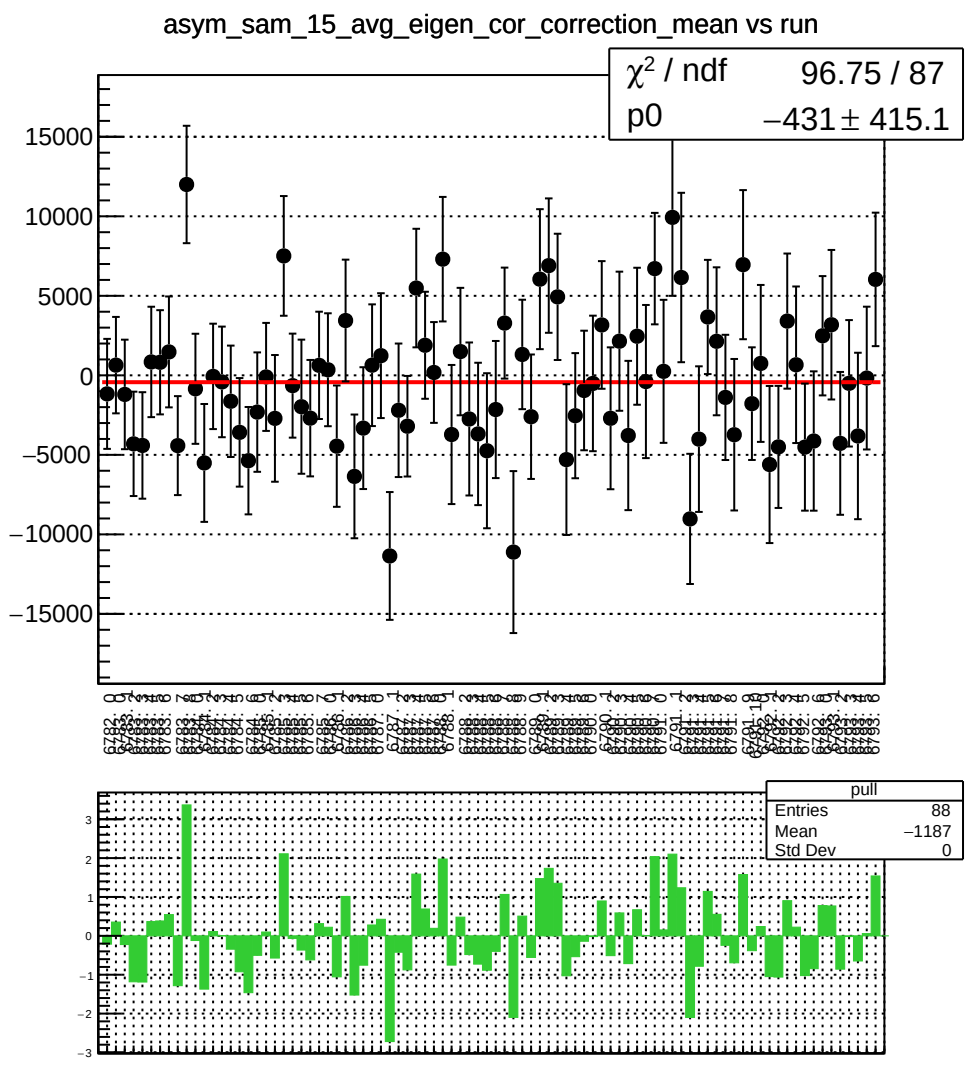

pull1D
Entries 88
Mean −0.002101
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

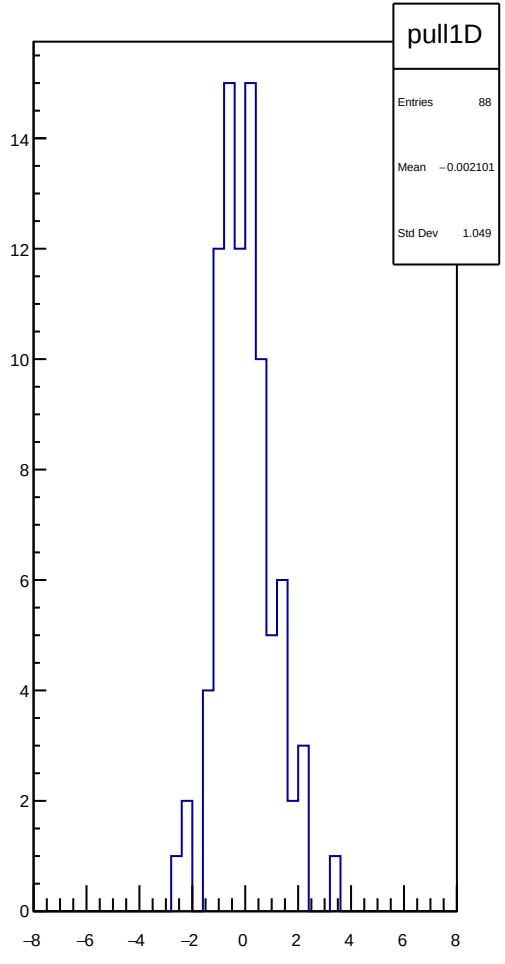

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 2.947e+04 / 87
p0 374.2 ± 0.2935
500
450
400
350
300

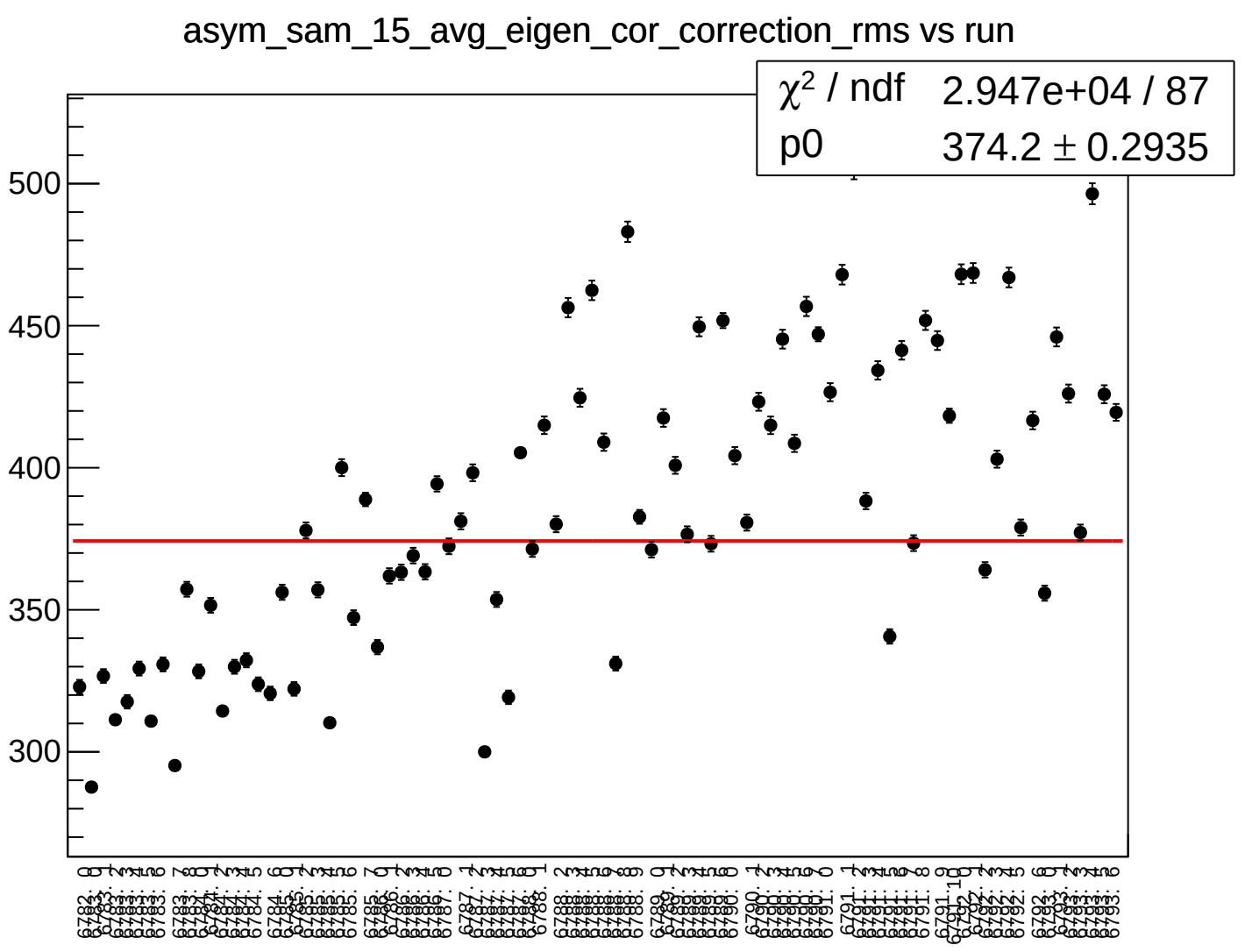

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 80.44 / 87
p0 −86.29 ± 79.23
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 101.6
Std Dev 54.16
2
1
0
−1
−2

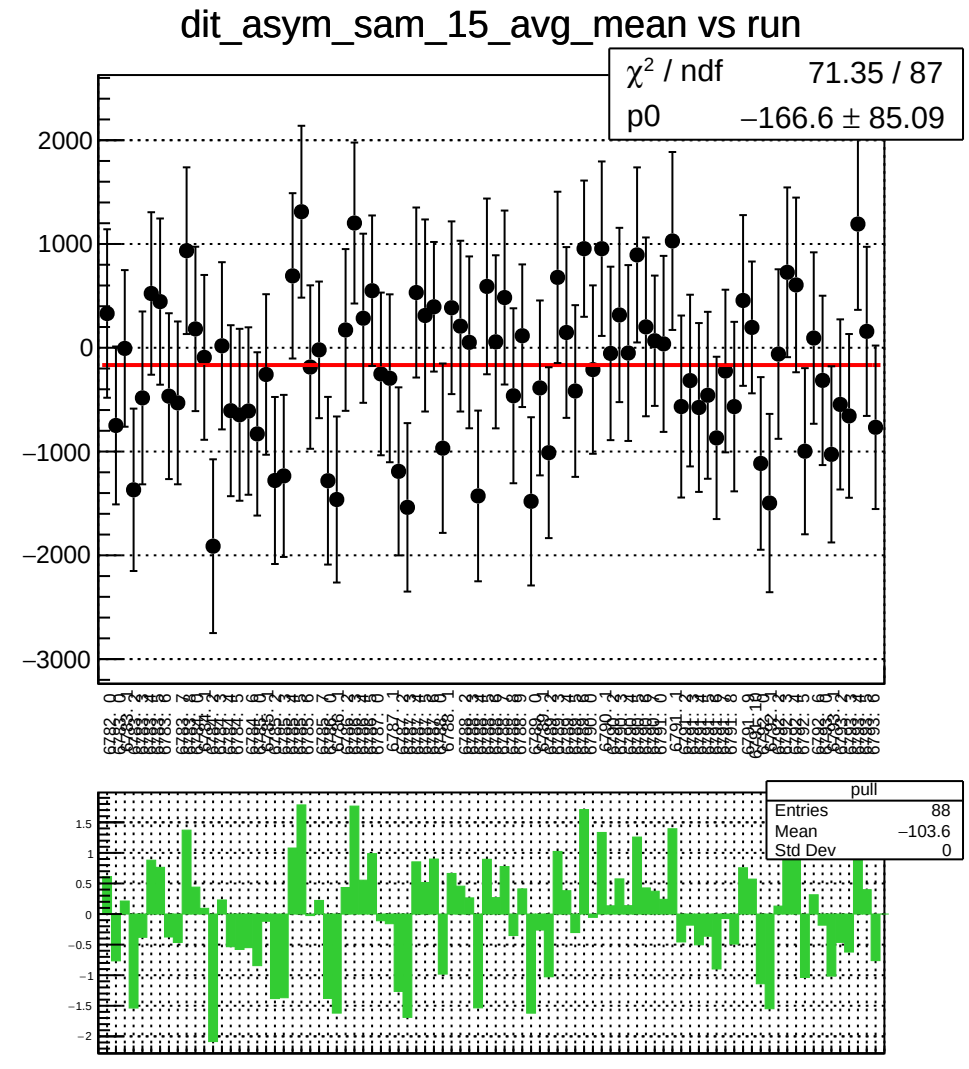

pull1D
Entries 88
Mean −0.006663
Std Dev 0.9561
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

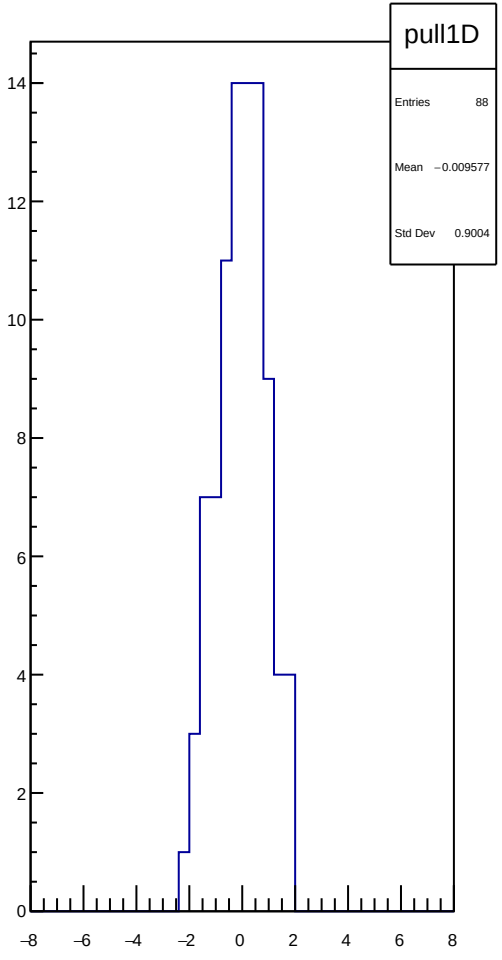

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 3716 / 87
p0 71.99 ± 0.05602
80
78
76
74
72
70
68
66
64

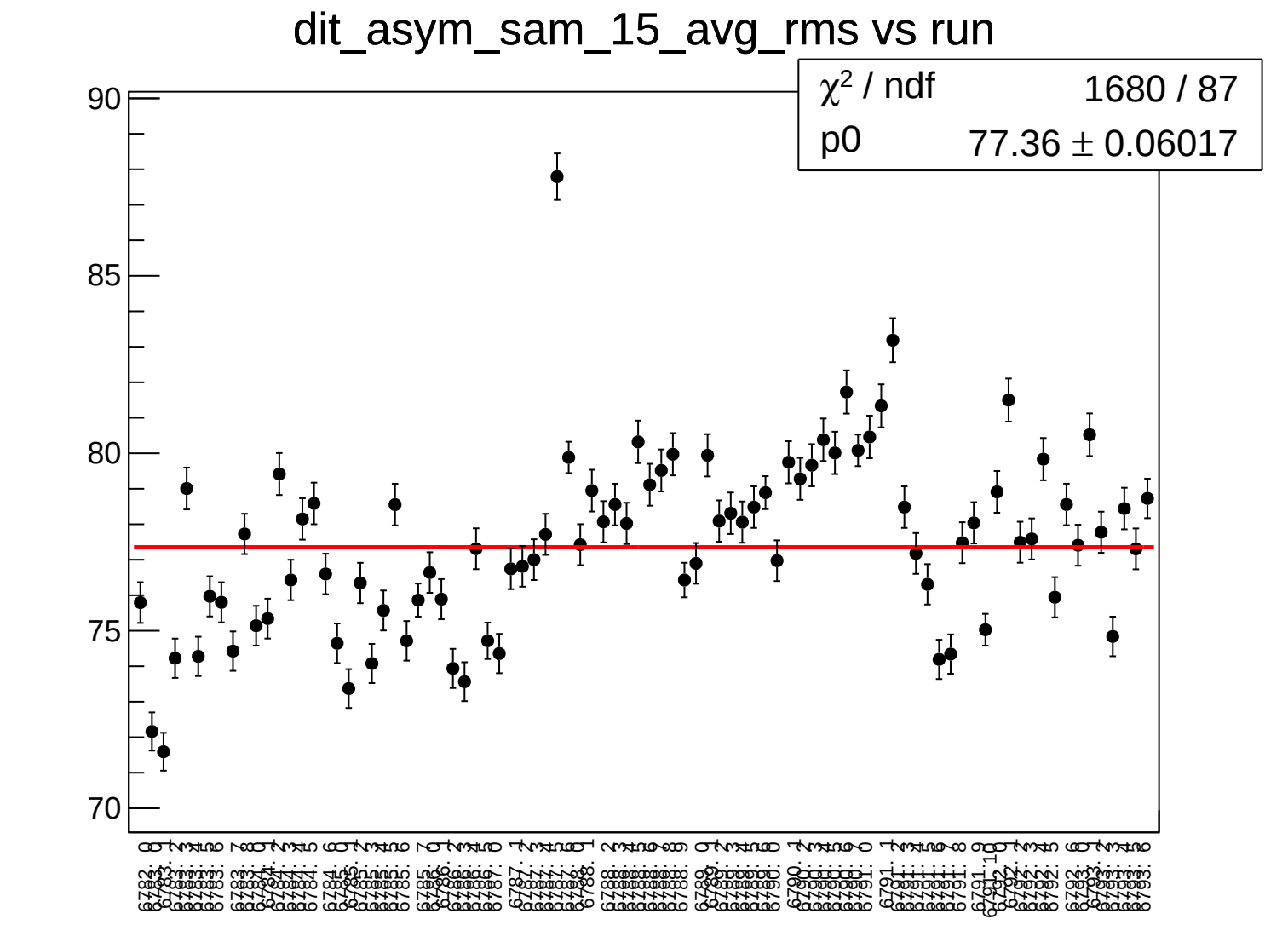

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.75 / 87
p0 −431 ± 415.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1187
Std Dev 0
3
2
1
0
−1
−2
−3

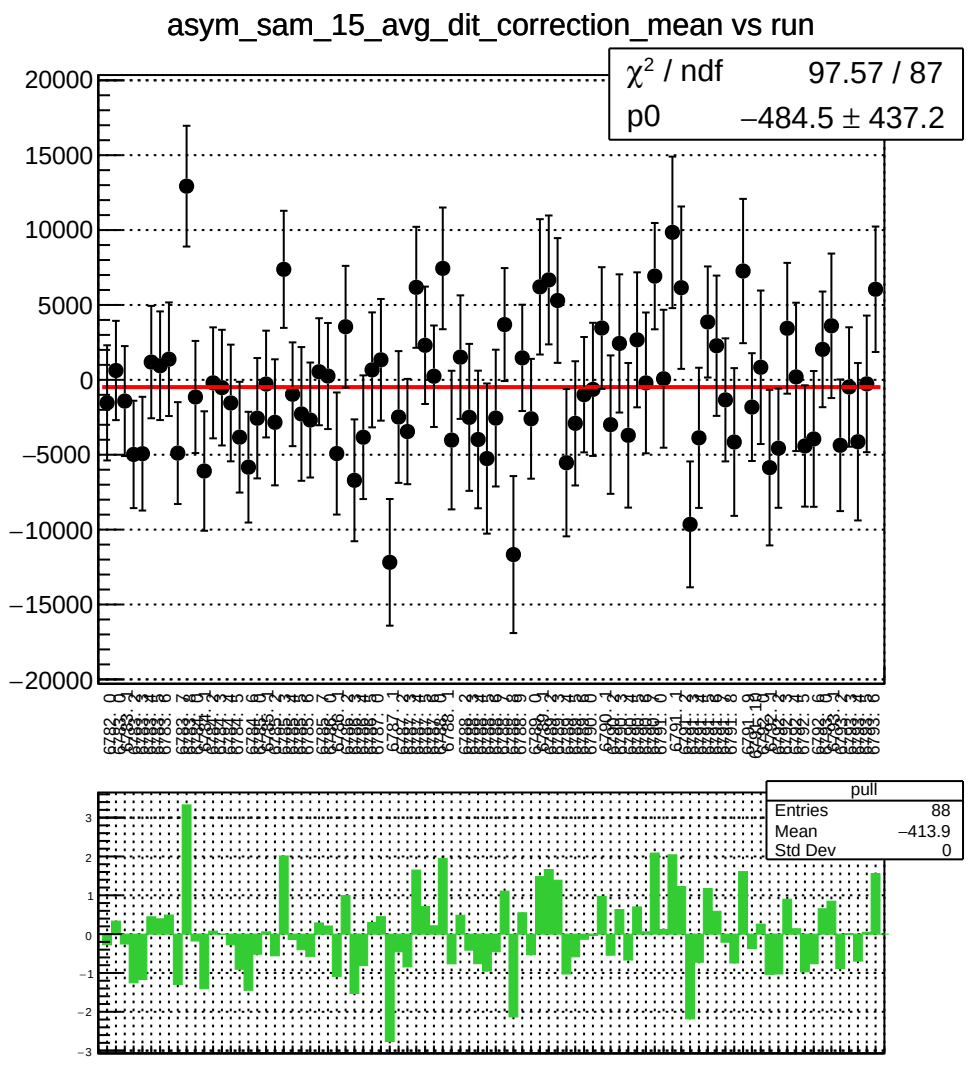

pull1D
Entries 88
Mean −0.002101
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

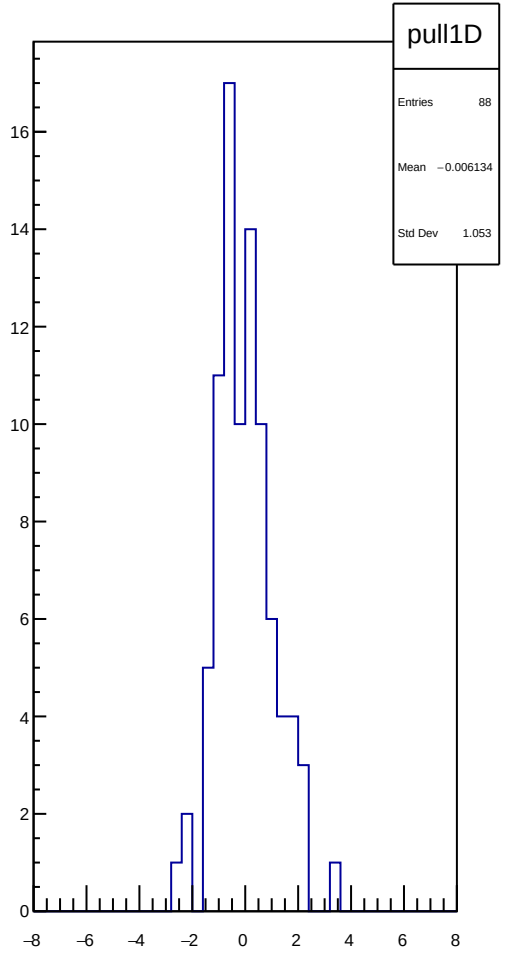

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.947e+04 / 87
p0 374.2 ± 0.2935
500
450
400
350
300

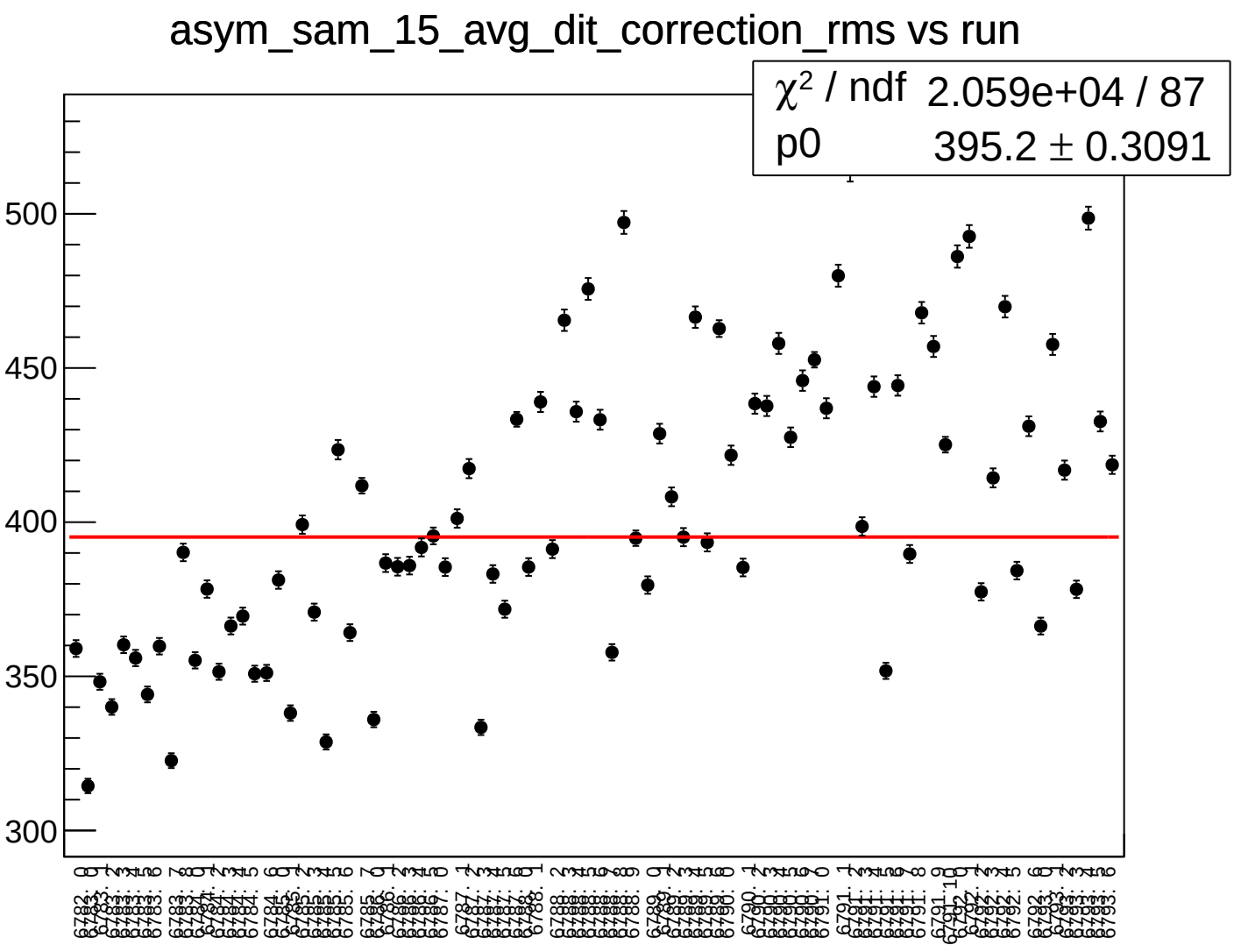

dit_asym_sam_15_avg_mean vs run
χ² / ndf 71.35 / 87
p0 −166.6 ± 85.09
pull
Entries 88
Mean −103.6
Std Dev 0

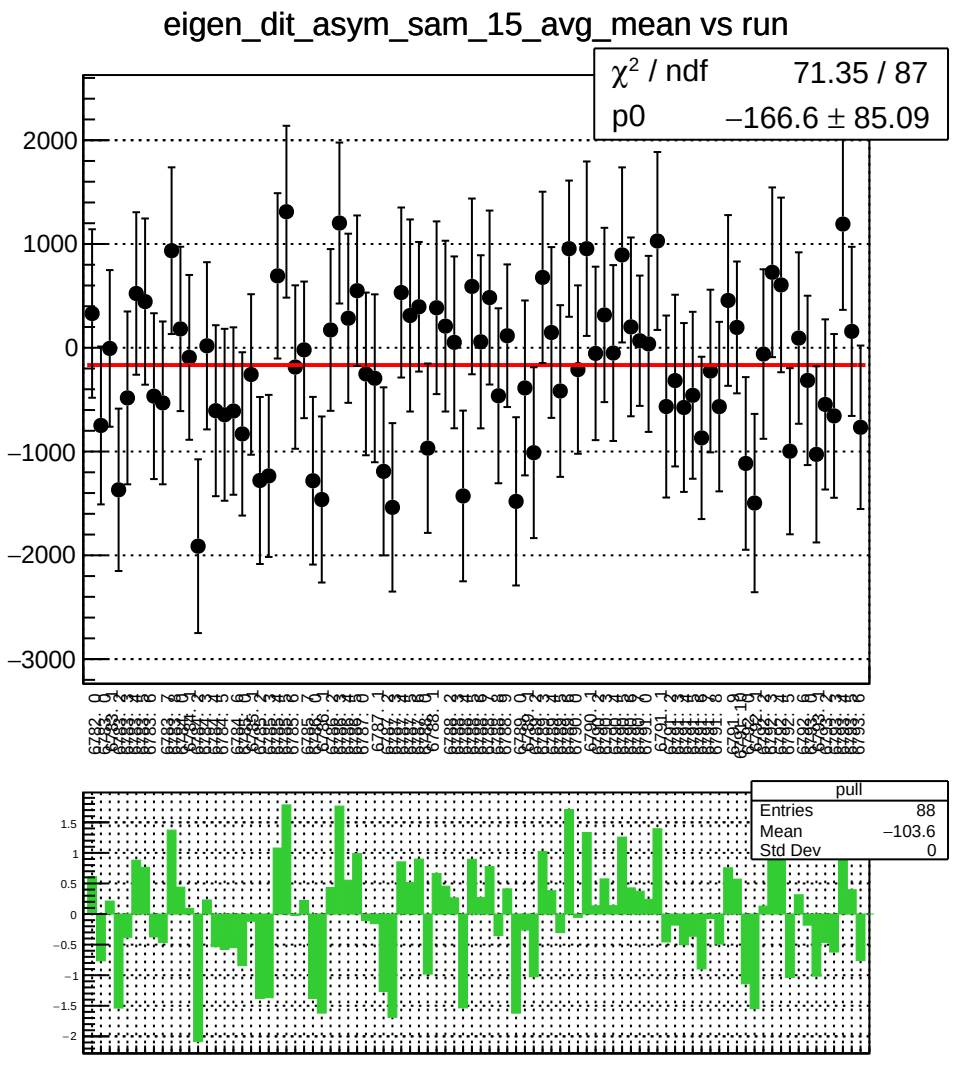

pull1D
Entries 88
Mean −0.009577
Std Dev 0.9004

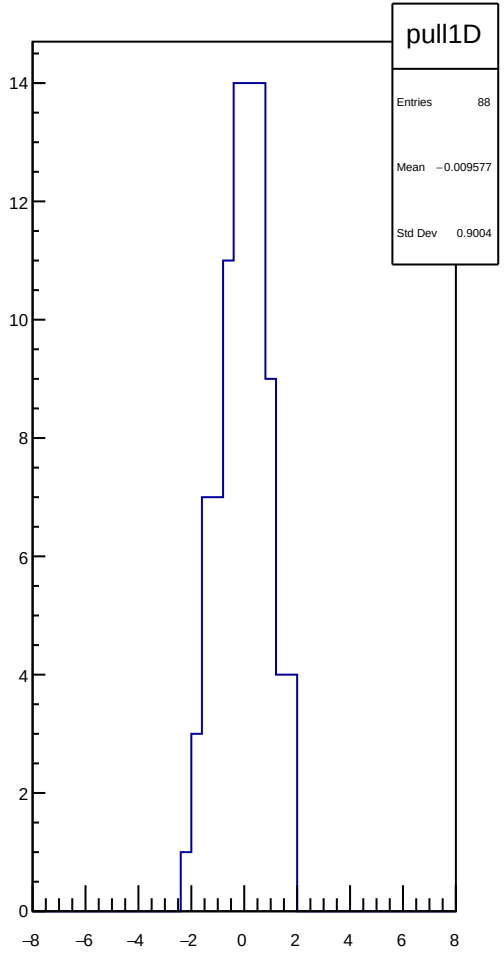

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1680 / 87
p0 77.36 ± 0.06017
90
85
80
75
70

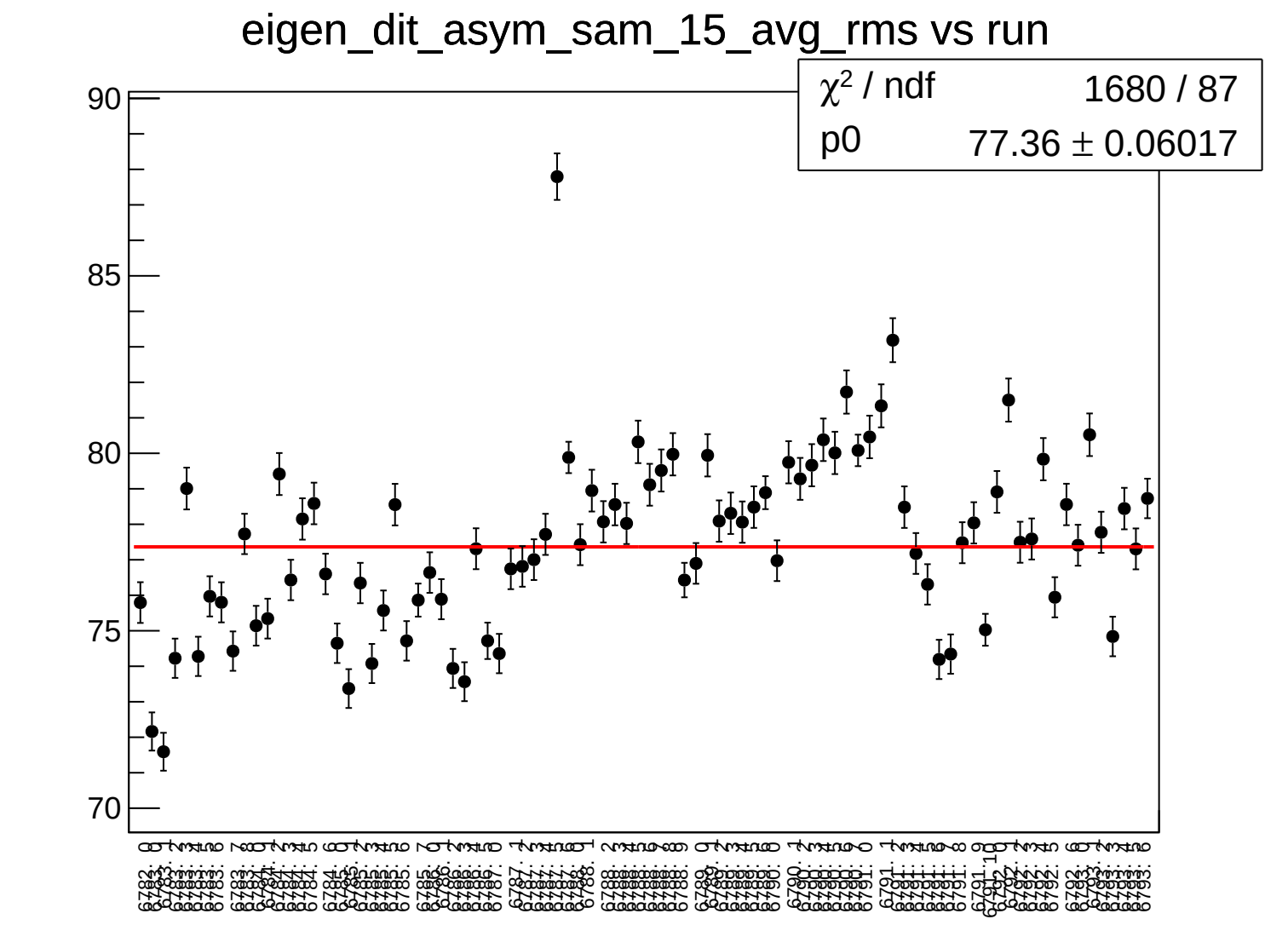

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 97.57 / 87
p0 −484.5 ± 437.2
pull
Entries 88
Mean −413.9
Std Dev 0

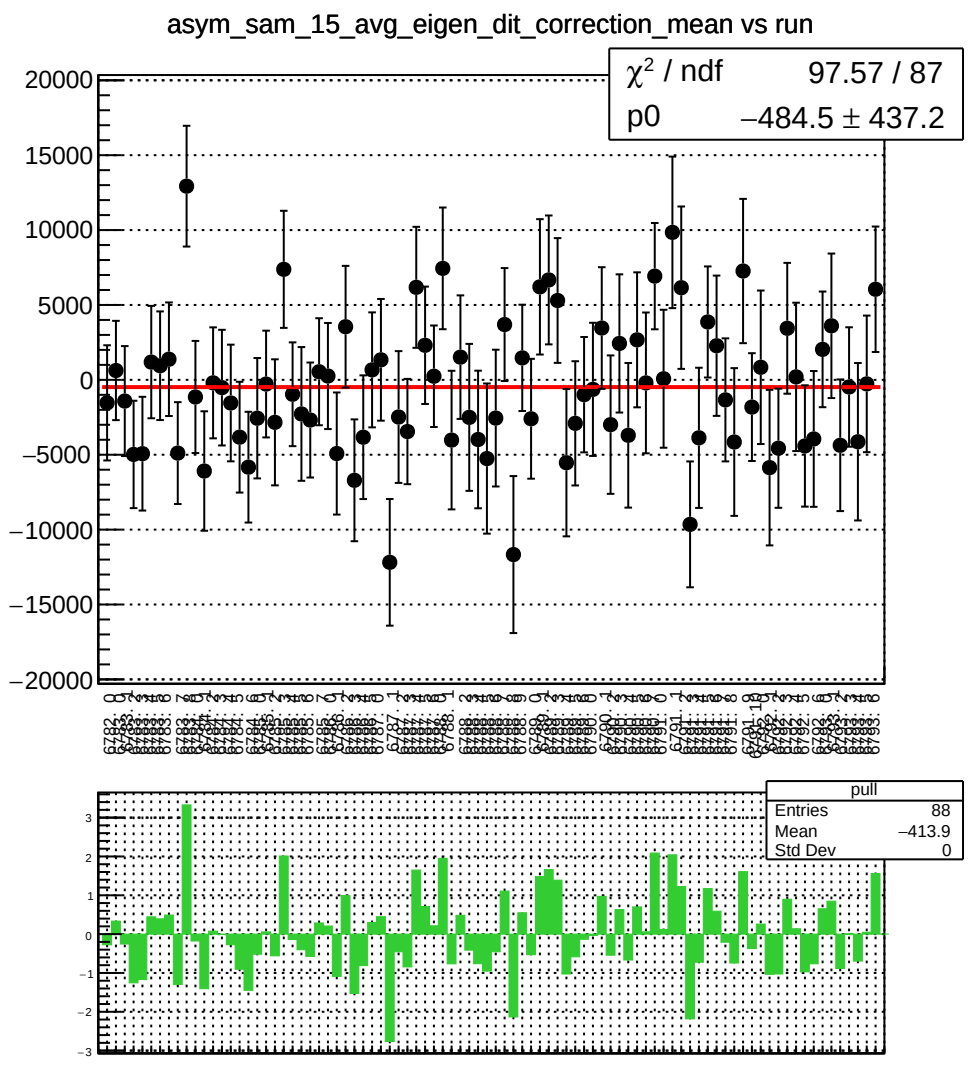

pull1D
Entries 88
Mean −0.006134
Std Dev 1.053

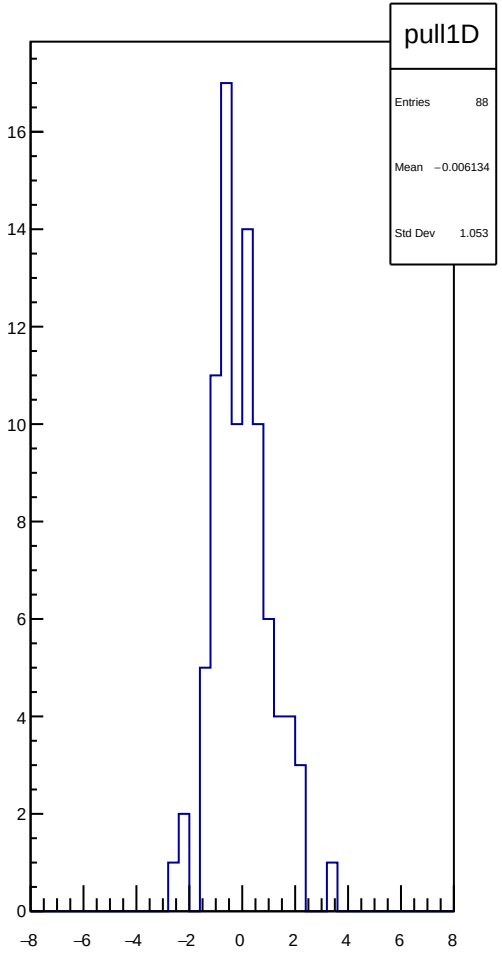

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2.059e+04 / 87
p0 395.2 ± 0.3091
500
450
400
350
300

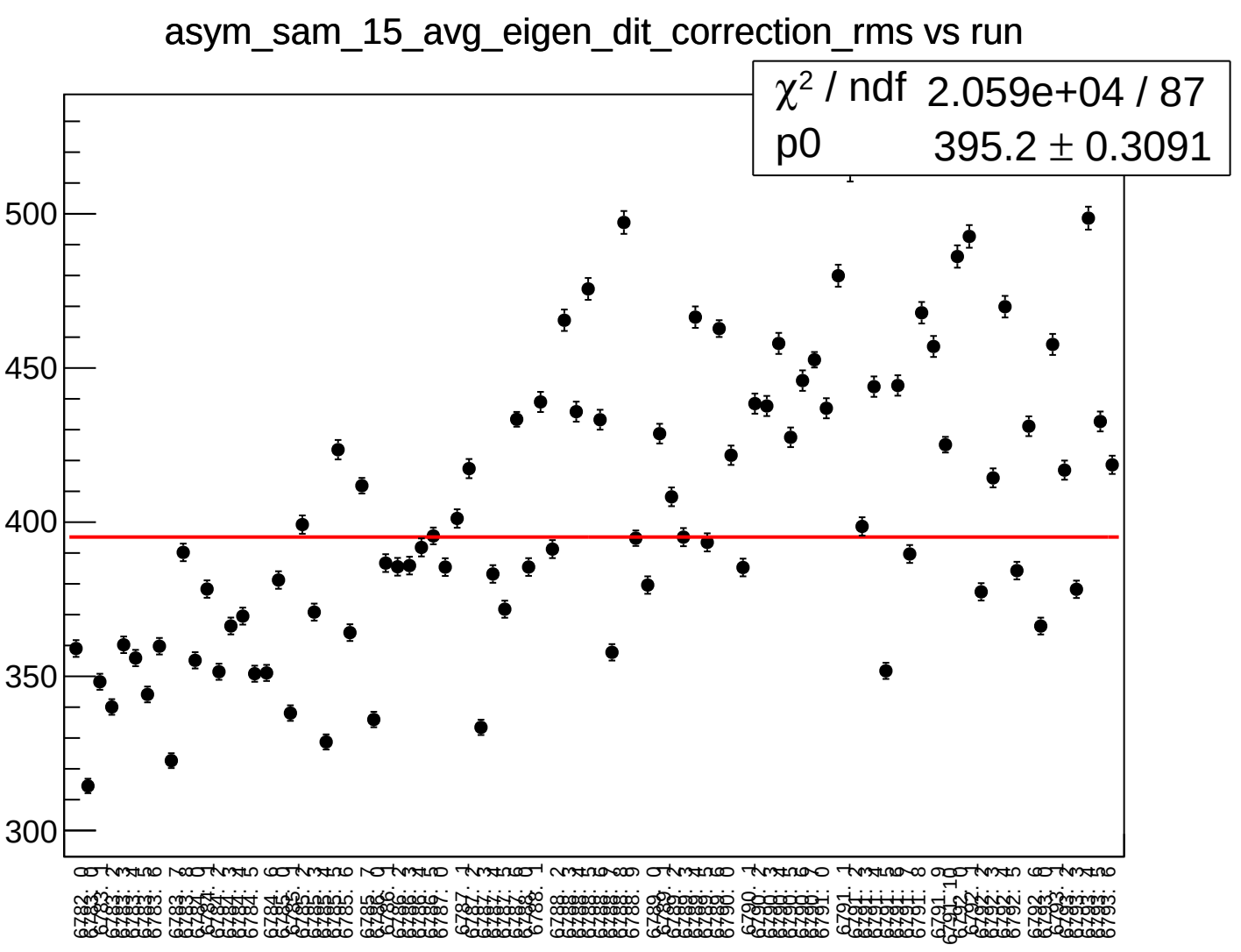

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 71.35 / 87
p0 −166.6 ± 85.09
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

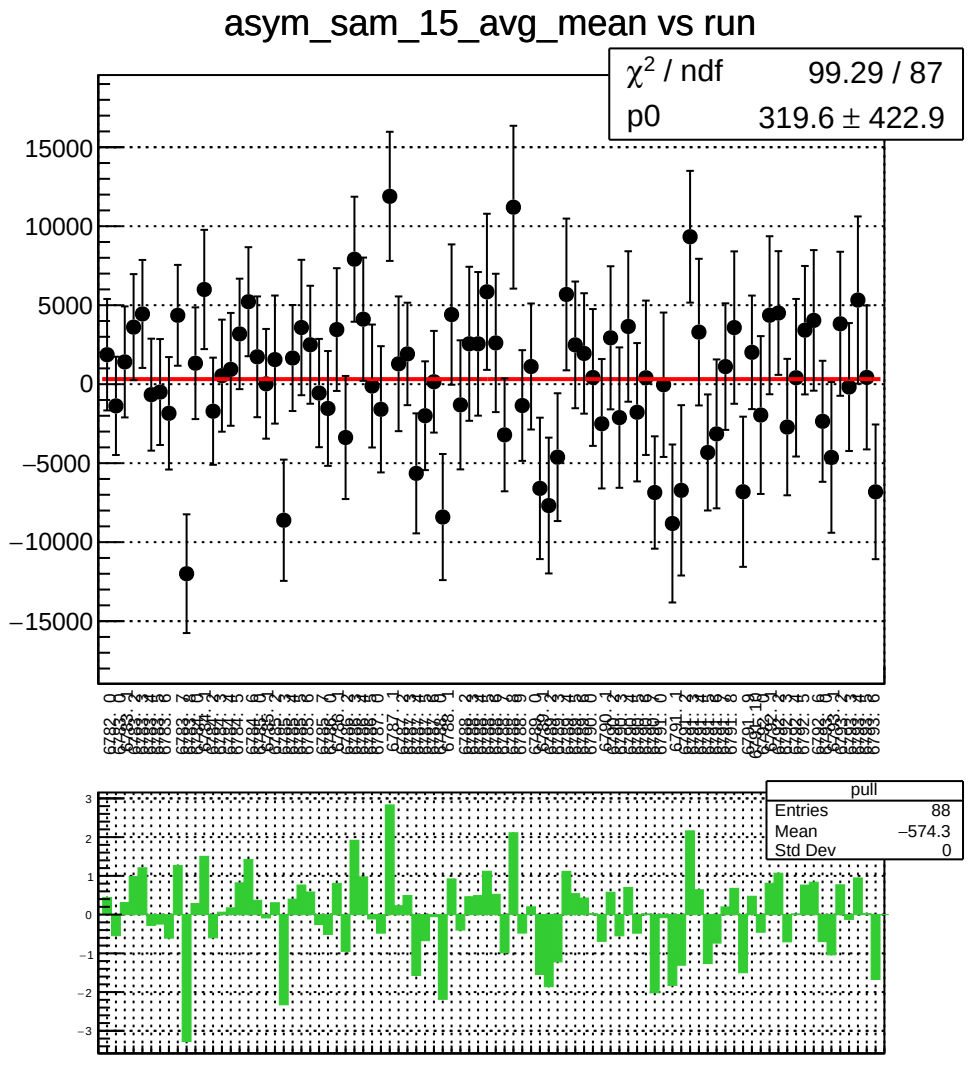

pull1D
Entries 88
Mean −0.009577
Std Dev 0.9004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

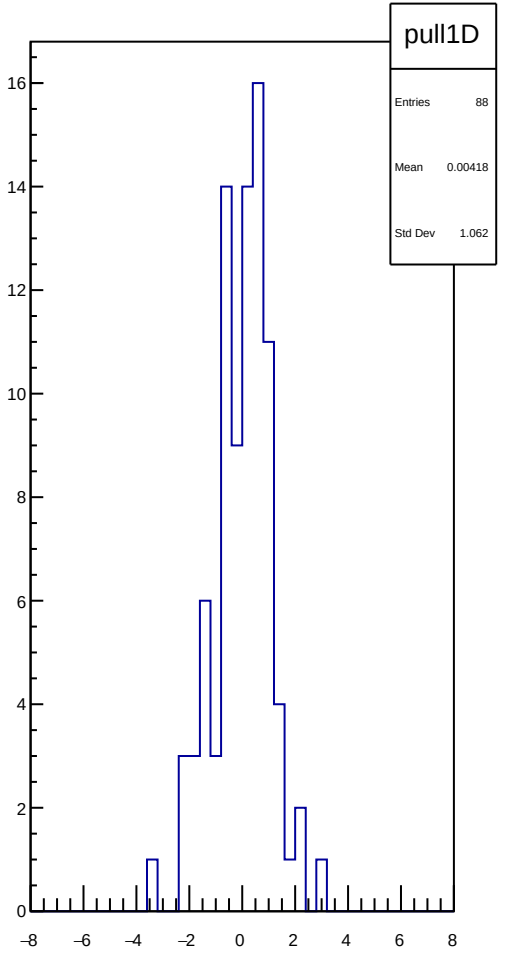

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1680 / 87
p0 77.36 ± 0.06017
90
85
80
75
70

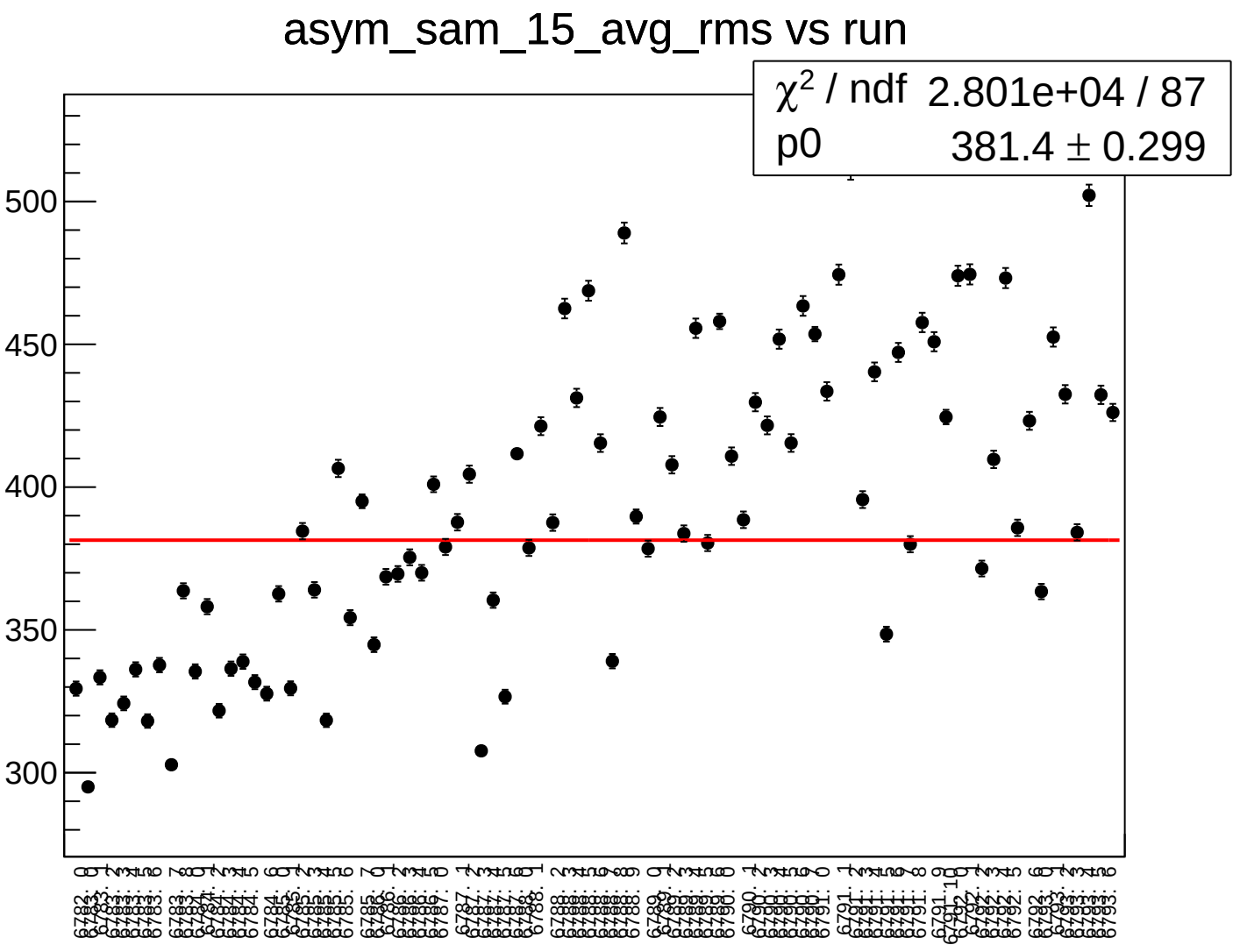

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.57 / 87
p0 −484.5 ± 437.2
pull
Entries 88
Mean −413.9
Std Dev 0

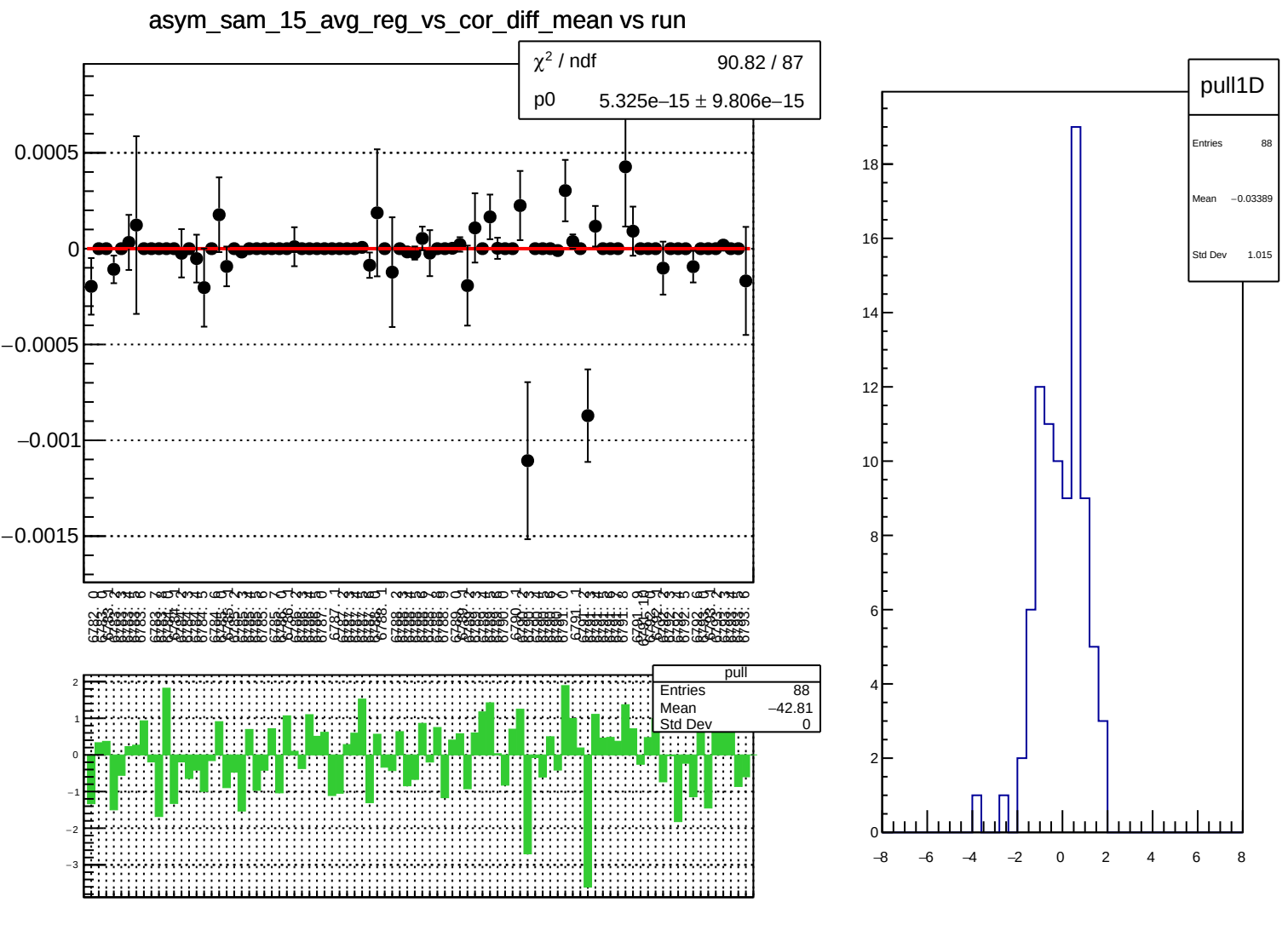

pull1D
Entries 88
Mean −0.006134
Std Dev 1.053

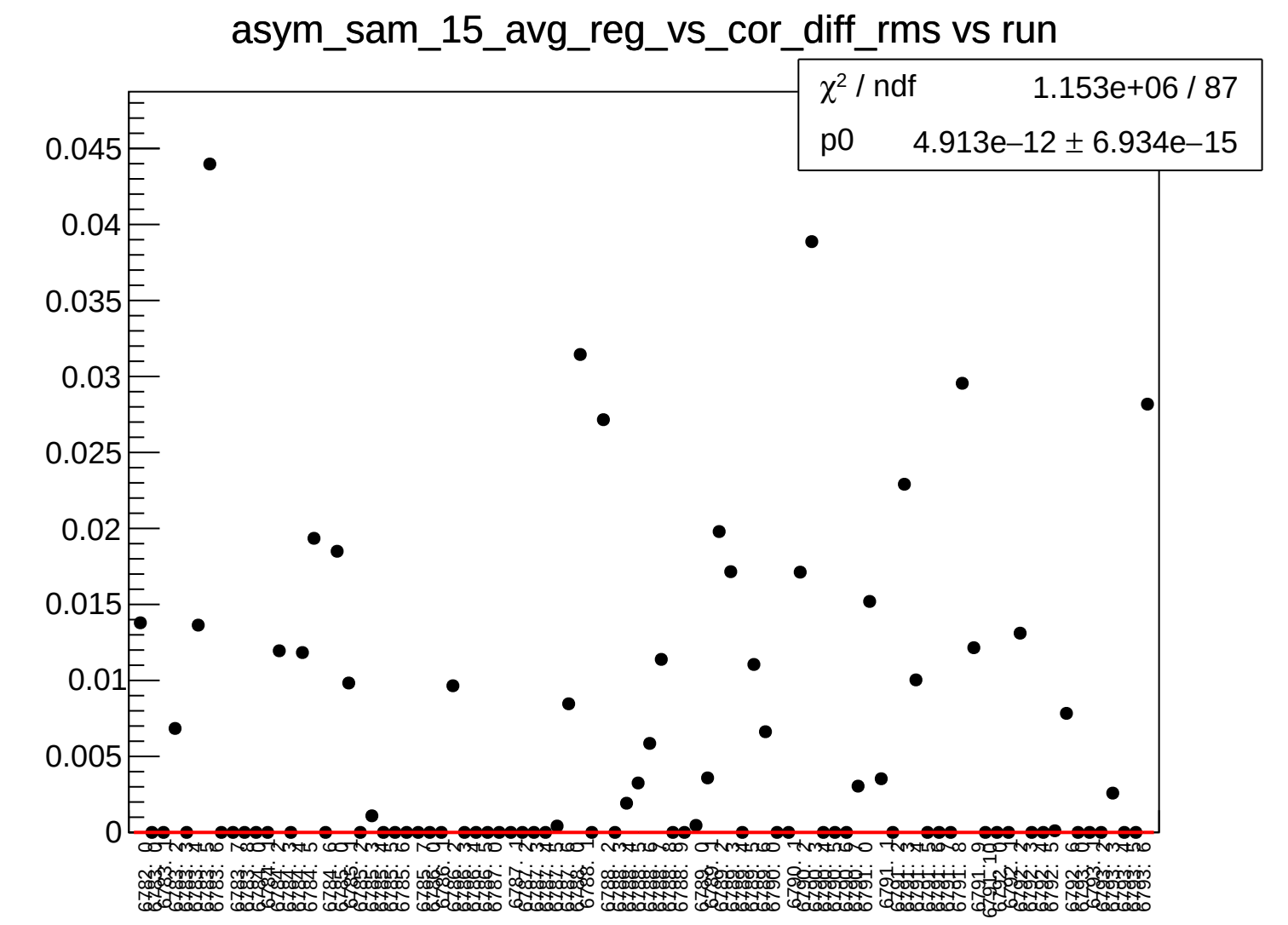

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.059e+04 / 87
p0 395.2 ± 0.3091
500
450
400
350
300

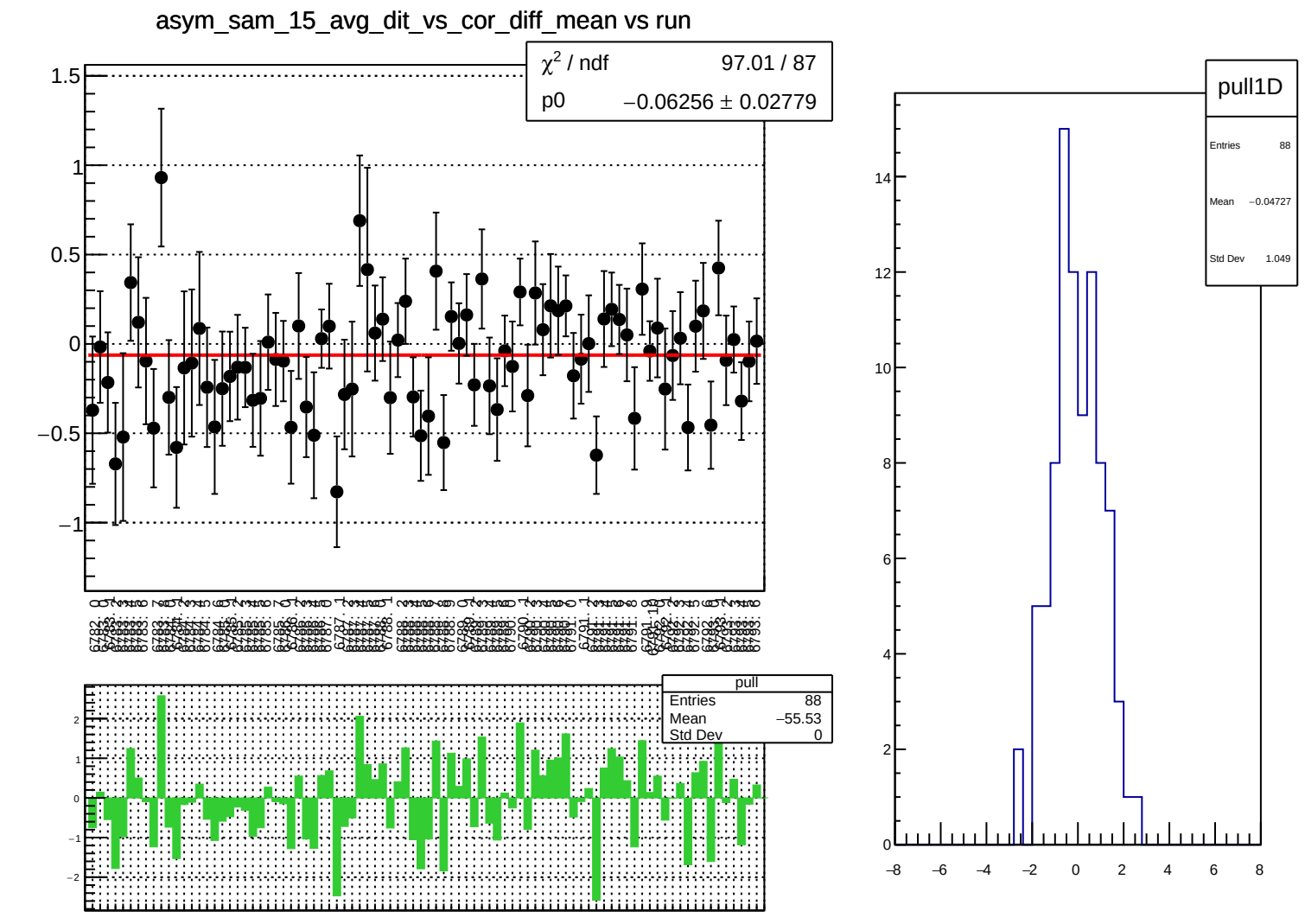

asym_sam_15_avg_mean vs run
χ² / ndf 99.29 / 87
p0 319.6 ± 422.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −574.3
Std Dev 0
3
2
1
0
−1
−2
−3

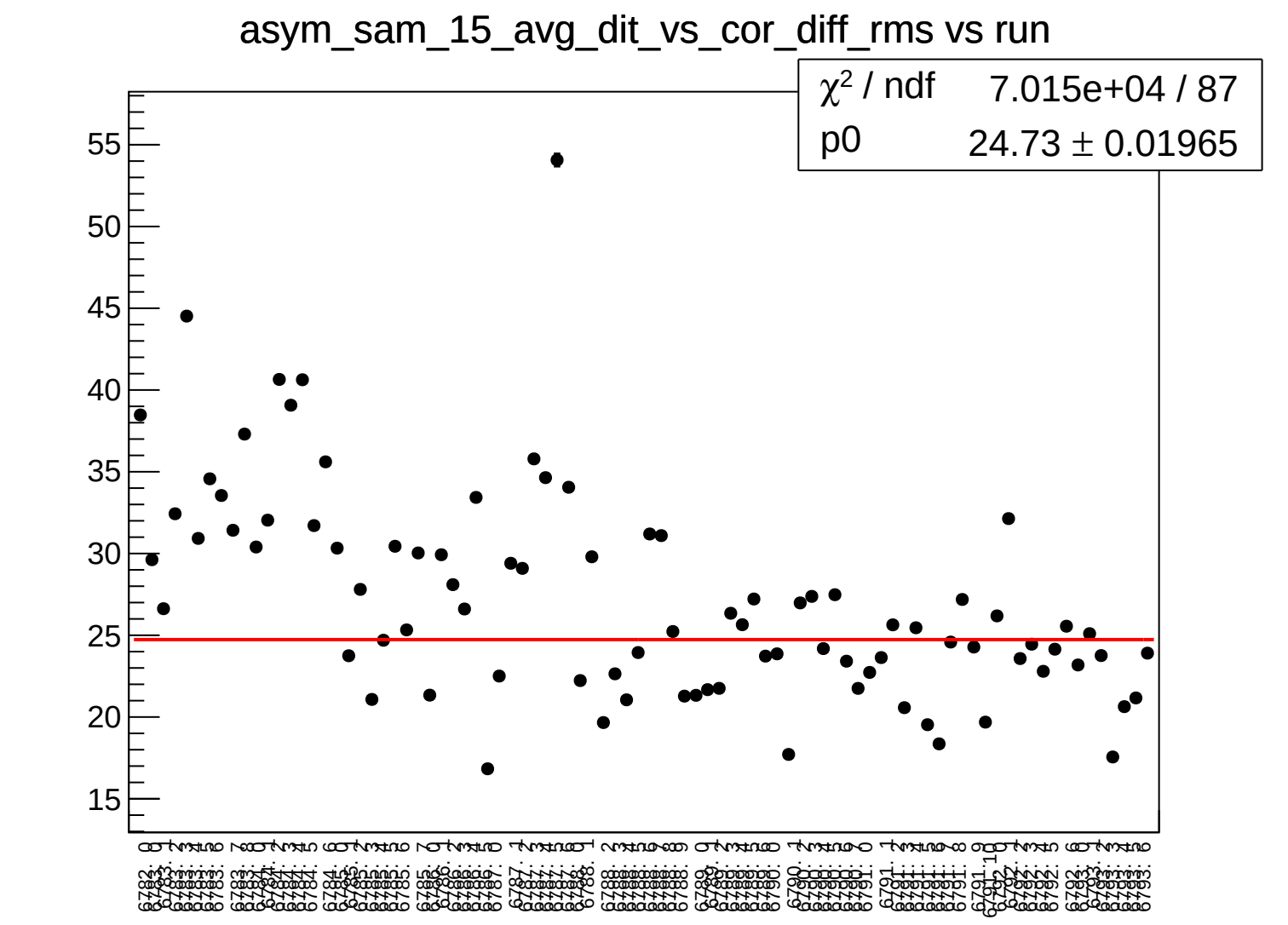

pull1D
Entries 88
Mean 0.00418
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

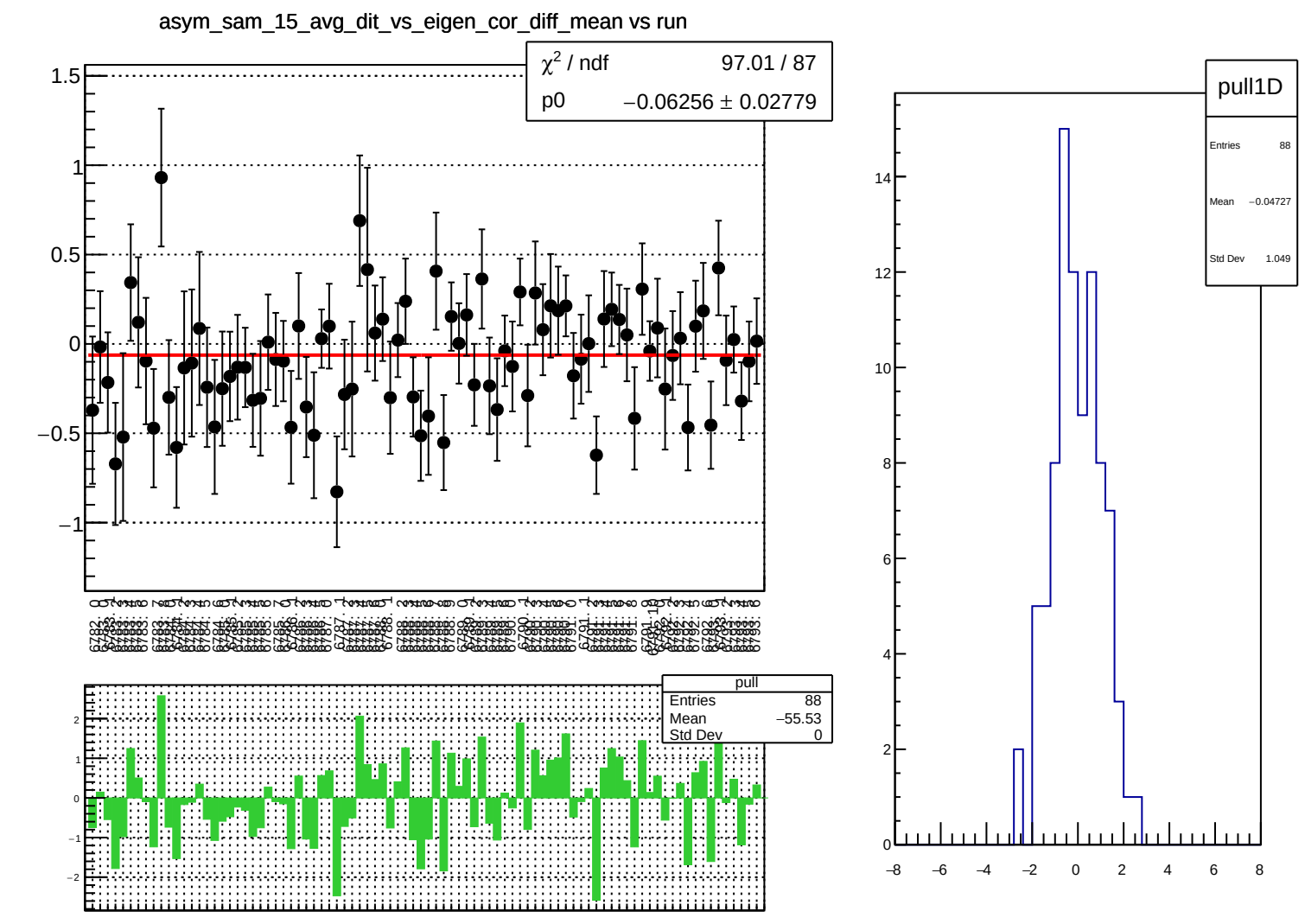

asym_sam_15_avg_rms vs run
χ² / ndf 2.801e+04 / 87
p0 381.4 ± 0.299
500
450
400
350
300

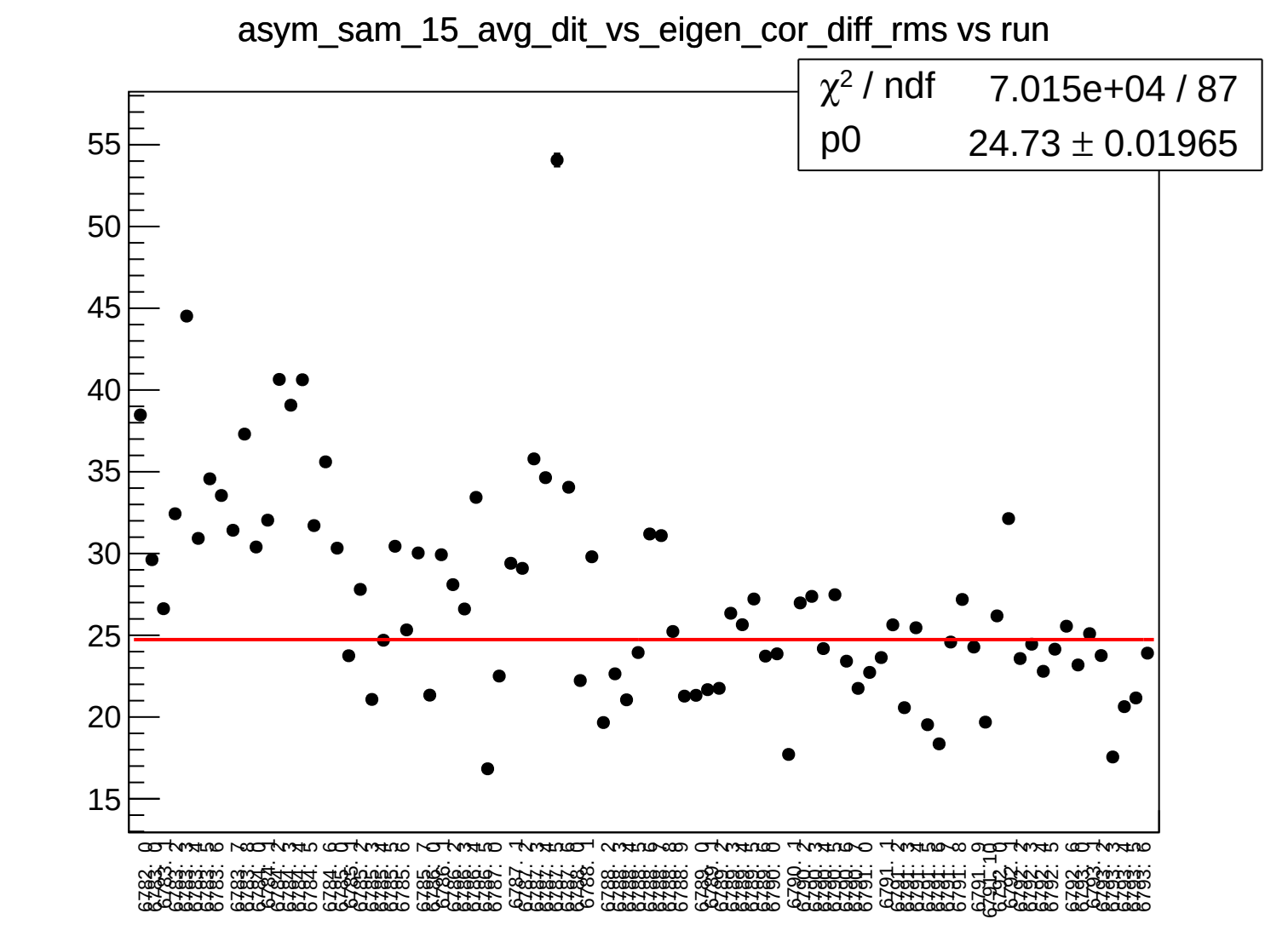

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.82 / 87
p0 5.325e−15 ± 9.806e−15
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean −42.81
Std Dev 0
pull1D
Entries 88
Mean −0.03389
Std Dev 1.015

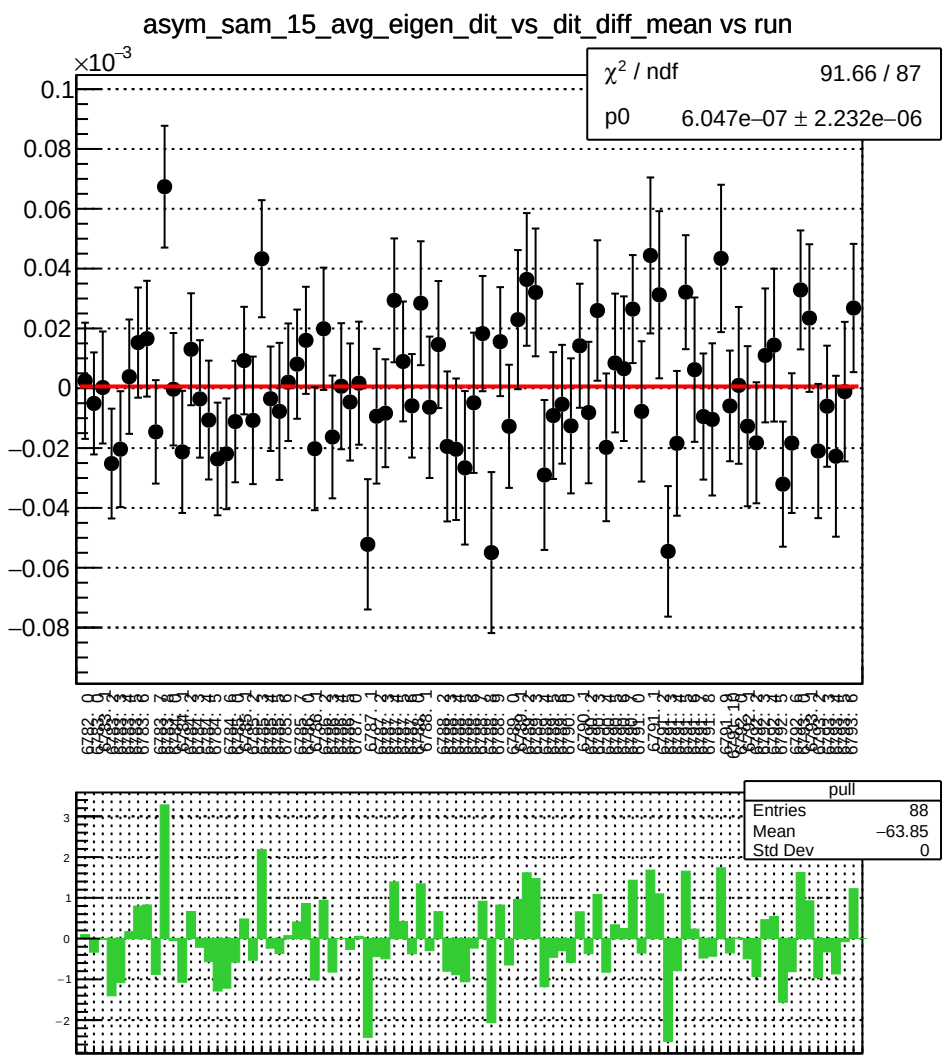

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.153e+06 / 87
p0 4.913e−12 ± 6.934e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

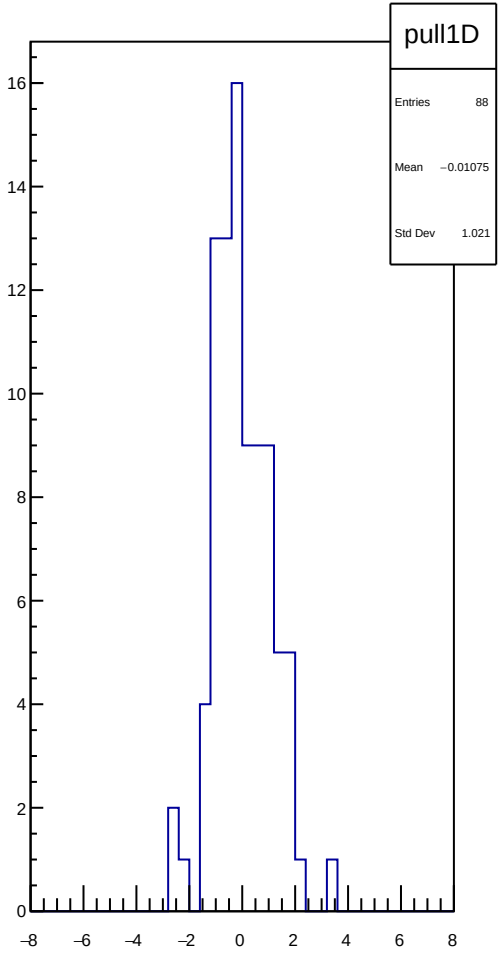

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.01 / 87
p0 −0.06256 ± 0.02779
pull
Entries 88
Mean −55.53
Std Dev 0
pull1D
Entries 88
Mean −0.04727
Std Dev 1.049

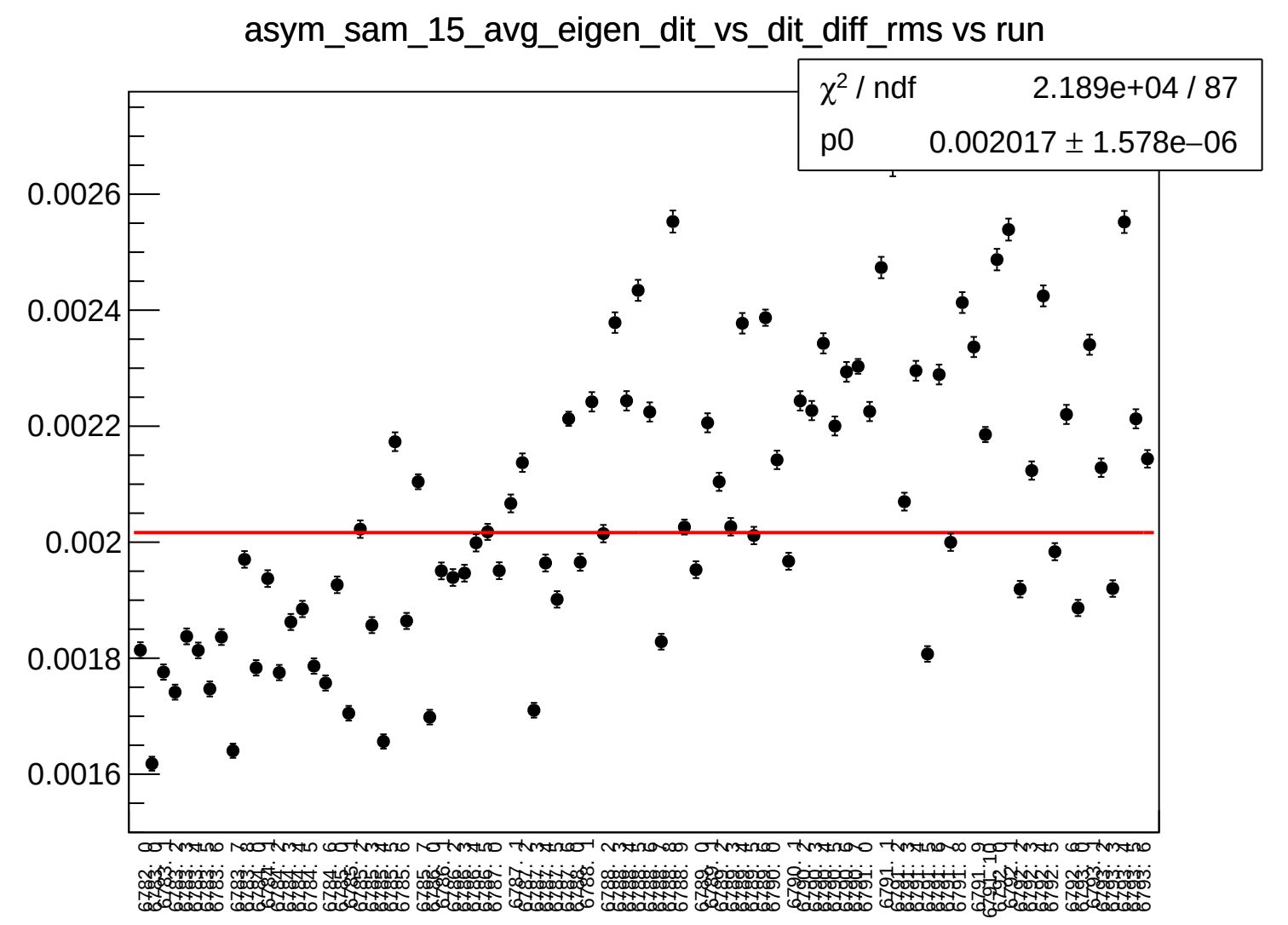

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.015e+04 / 87
p0 24.73 ± 0.01965
55
50
45
40
35
30
25
20
15

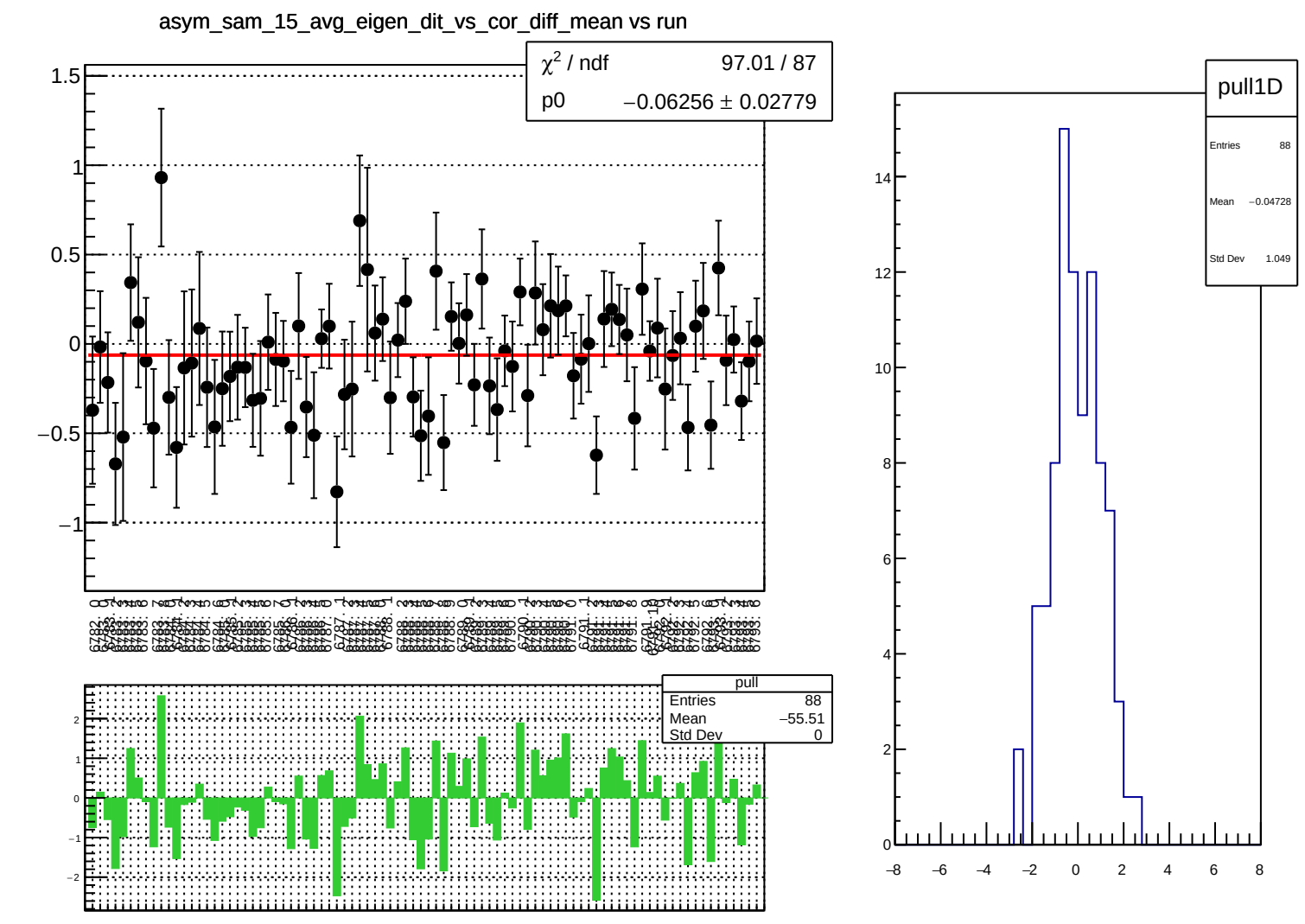

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.01 / 87
p0 −0.06256 ± 0.02779
pull
Entries 88
Mean −55.53
Std Dev 0
pull1D
Entries 88
Mean −0.04727
Std Dev 1.049

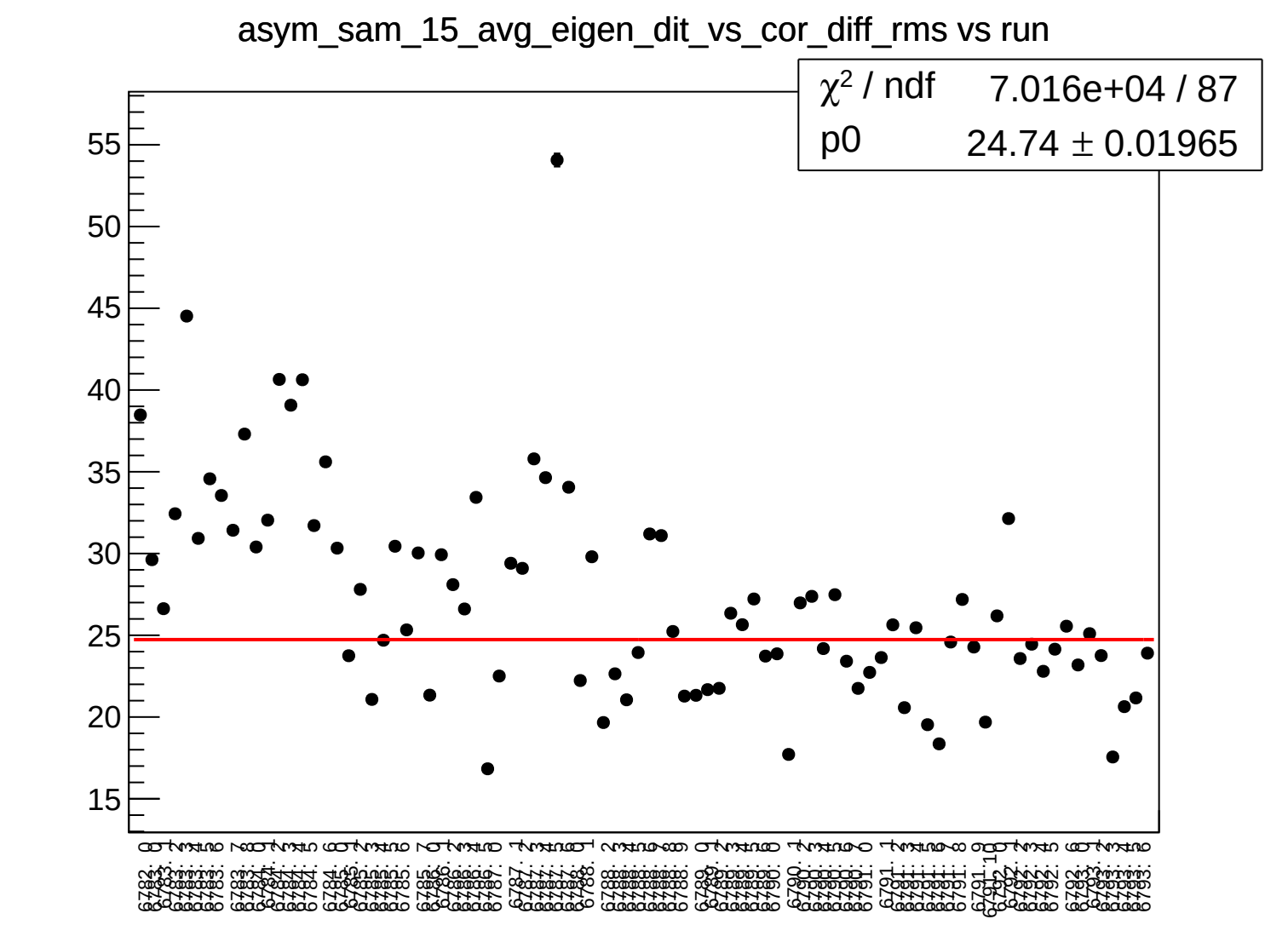

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.015e+04 / 87
p0 24.73 ± 0.01965
55
50
45
40
35
30
25
20
15

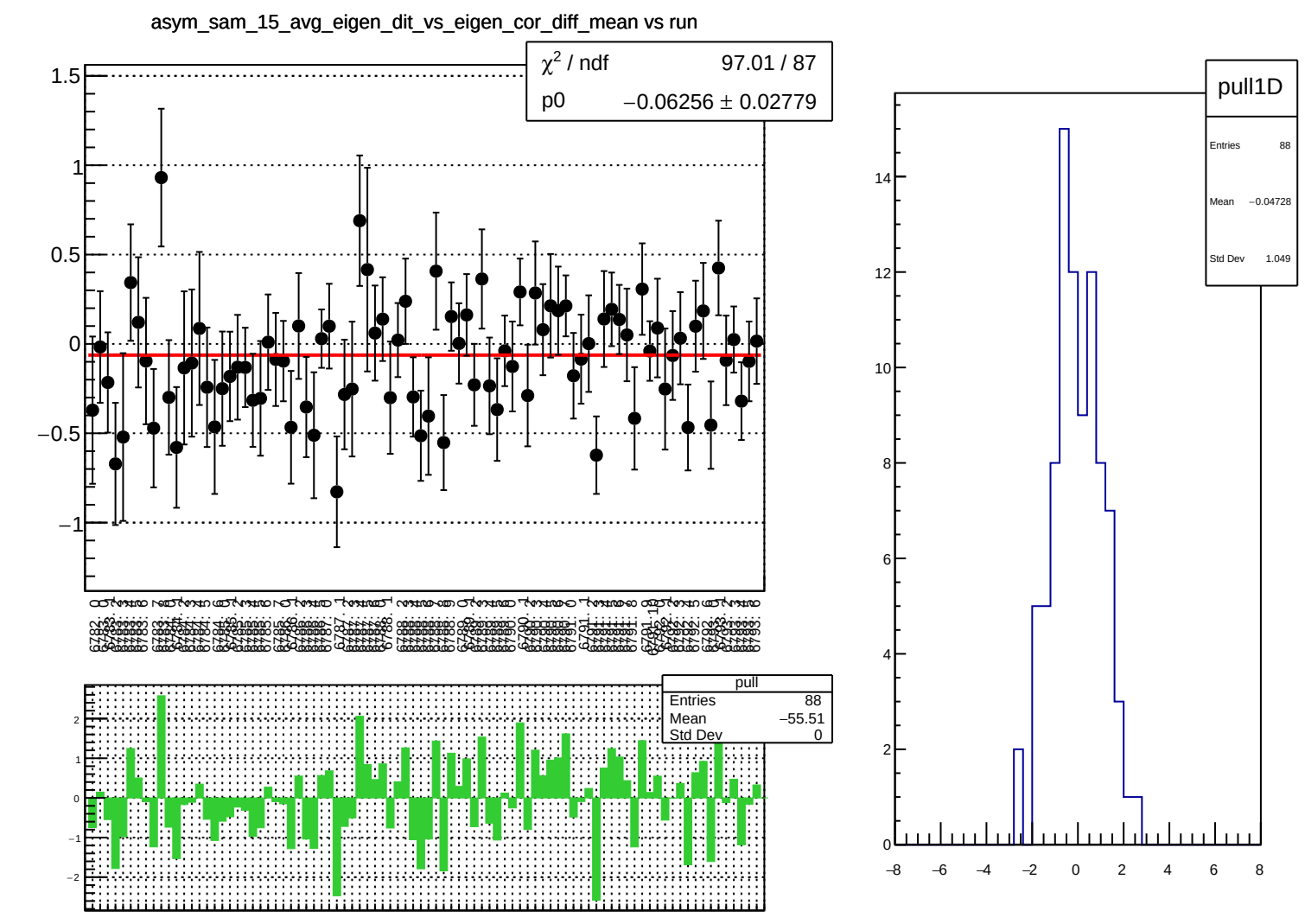

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.66 / 87
p0 6.047e−07 ± 2.232e−06
pull
Entries 88
Mean −63.85
Std Dev 0

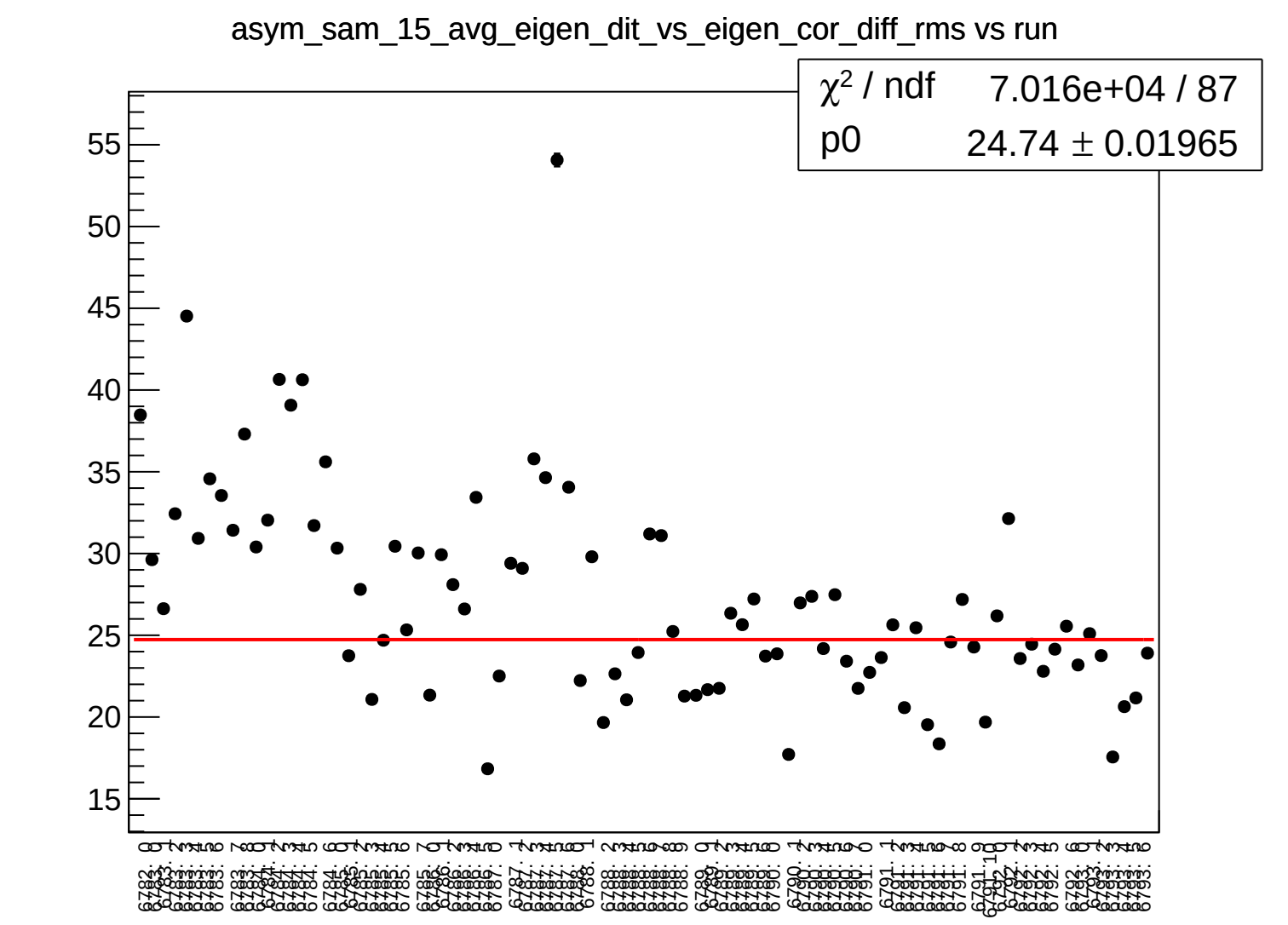

pull1D
Entries 88
Mean −0.01075
Std Dev 1.021

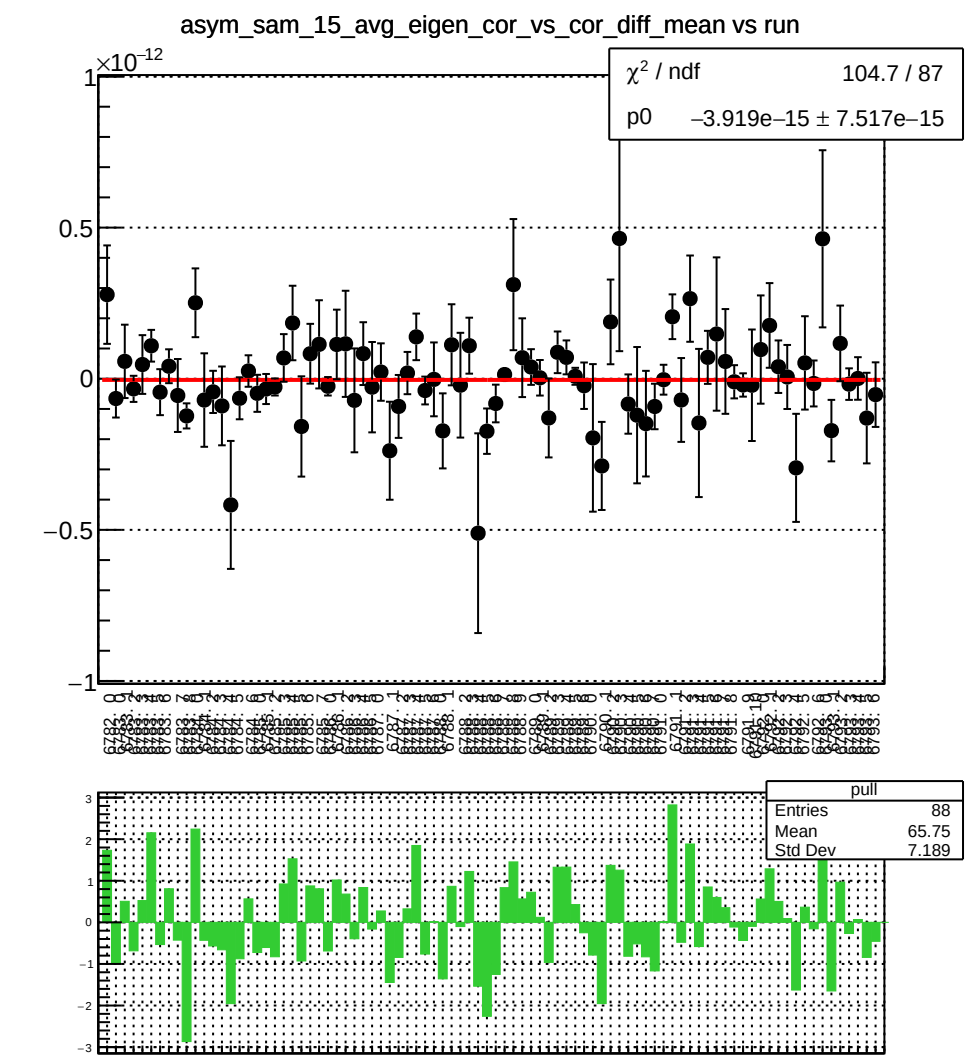

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.189e+04 / 87
p0 0.002017 ± 1.578e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

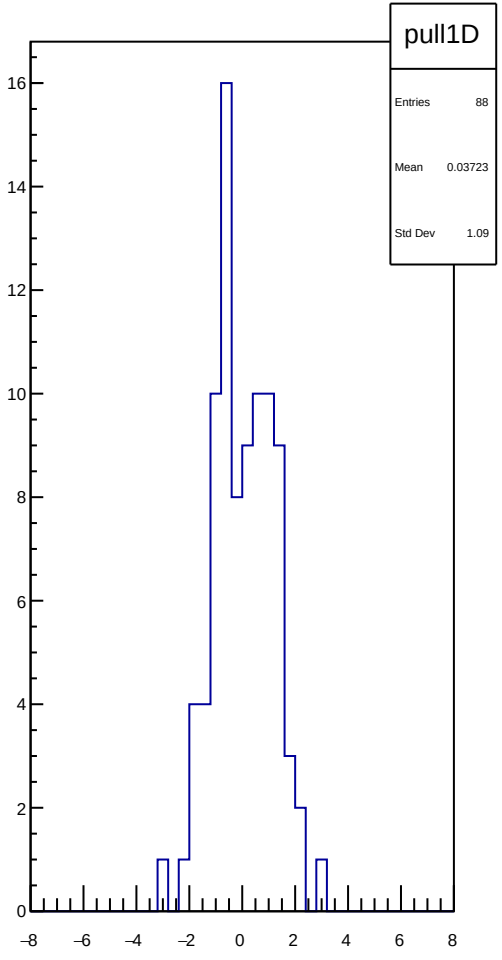

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.01 / 87
p0 −0.06256 ± 0.02779
pull
Entries 88
Mean −55.51
Std Dev 0
pull1D
Entries 88
Mean −0.04728
Std Dev 1.049

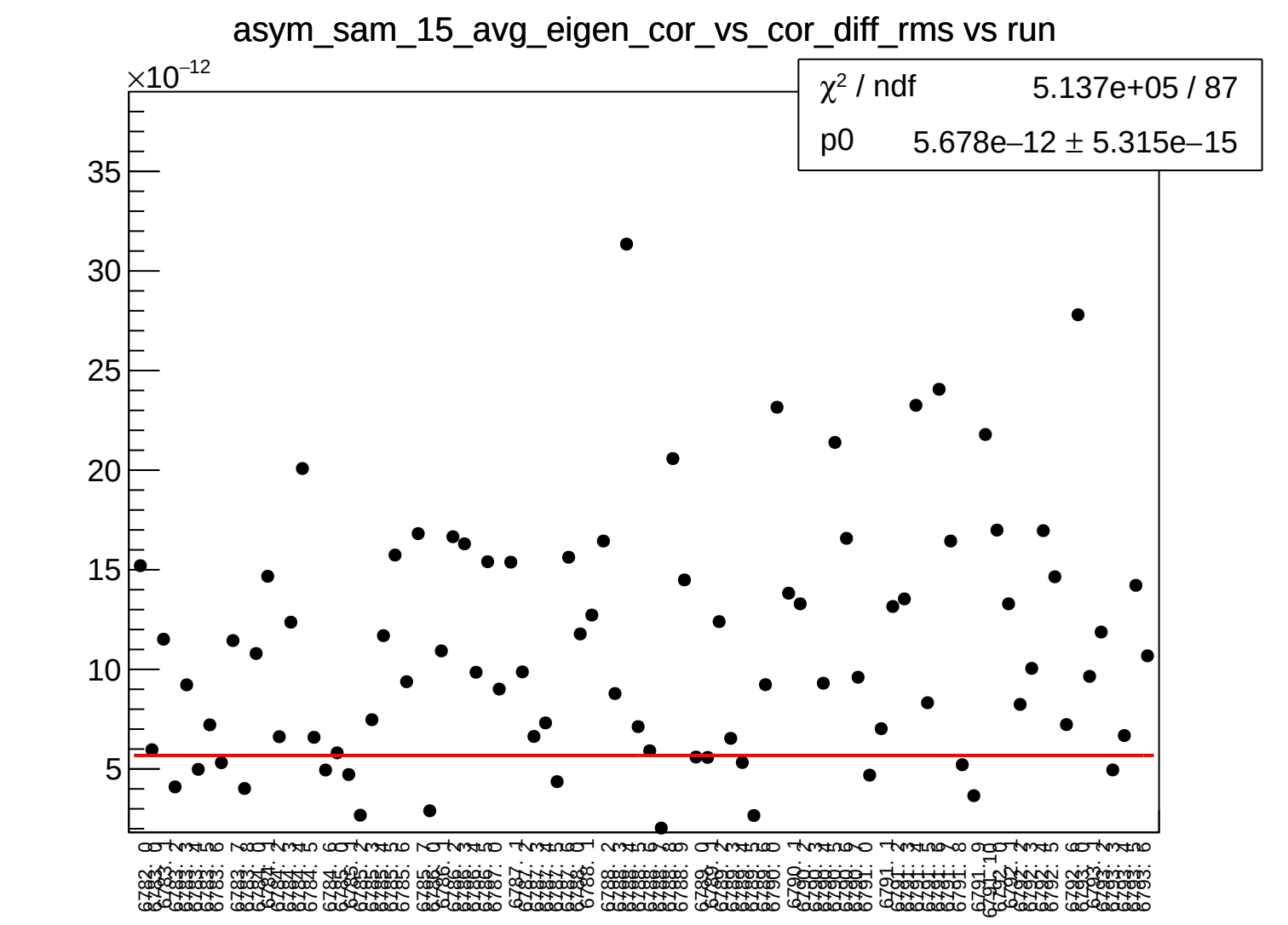

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.016e+04 / 87
p0 24.74 ± 0.01965
55
50
45
40
35
30
25
20
15

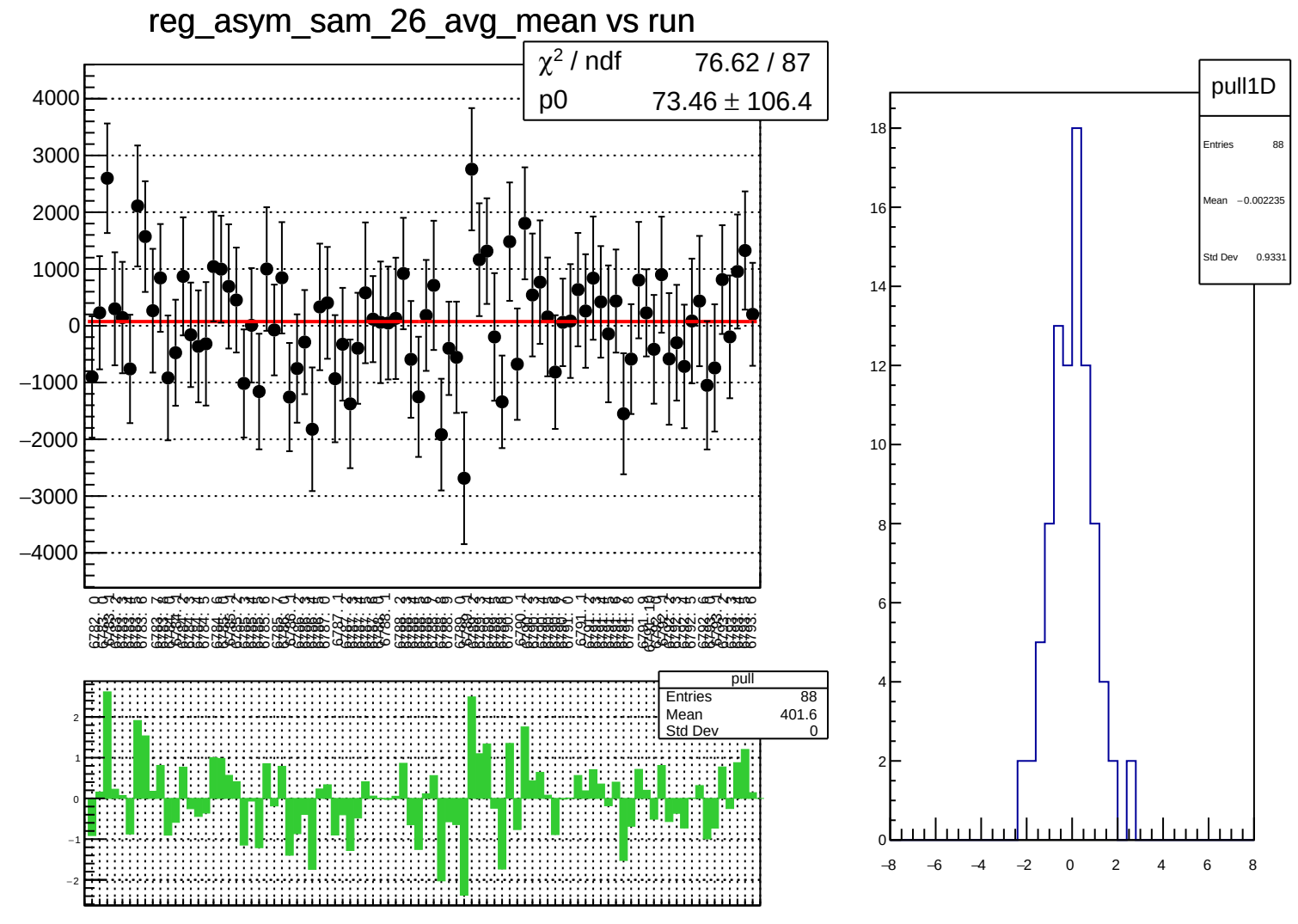

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.01 / 87
p0 −0.06256 ± 0.02779
pull
Entries 88
Mean −55.51
Std Dev 0
pull1D
Entries 88
Mean −0.04728
Std Dev 1.049

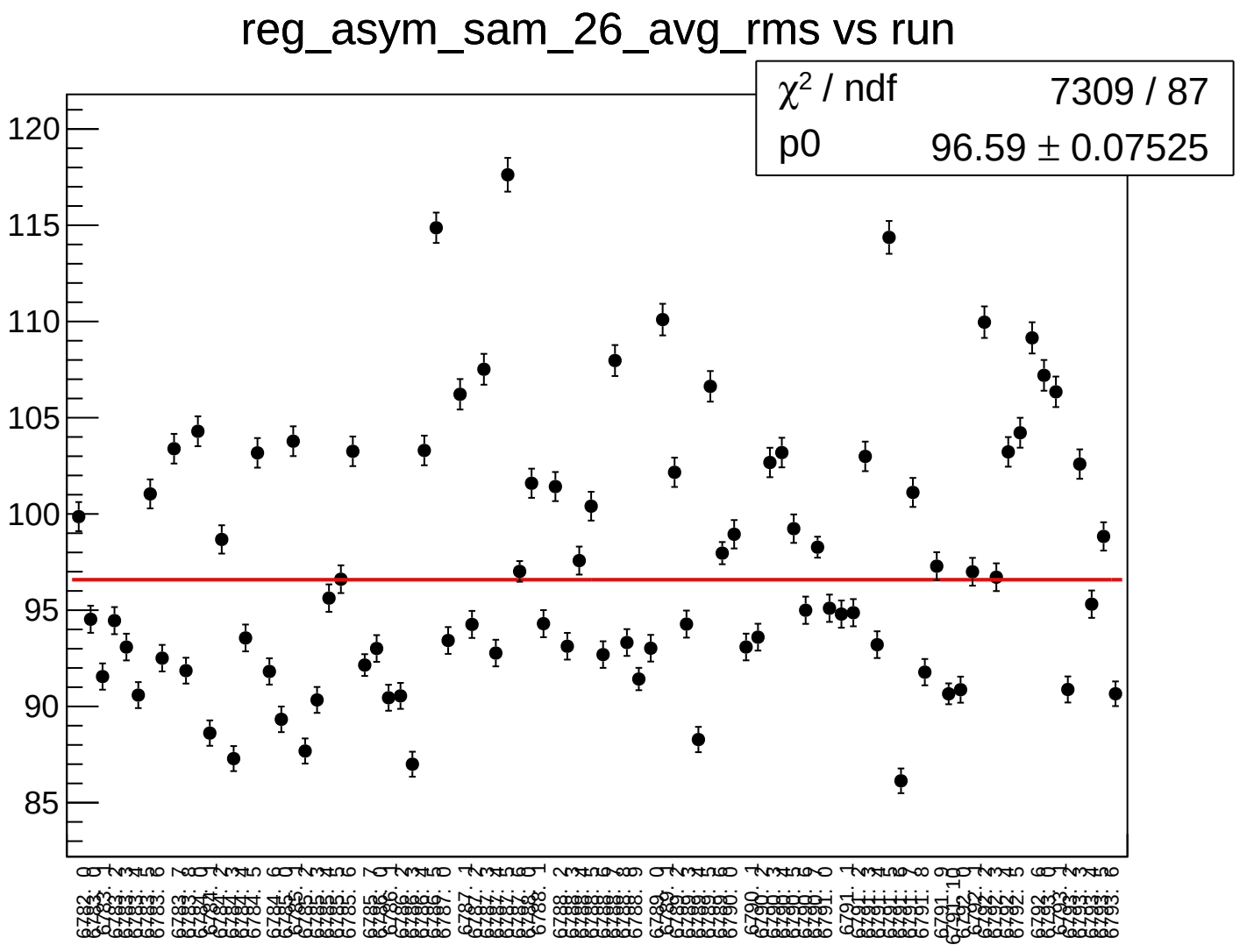

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.016e+04 / 87
p0 24.74 ± 0.01965
55
50
45
40
35
30
25
20
15

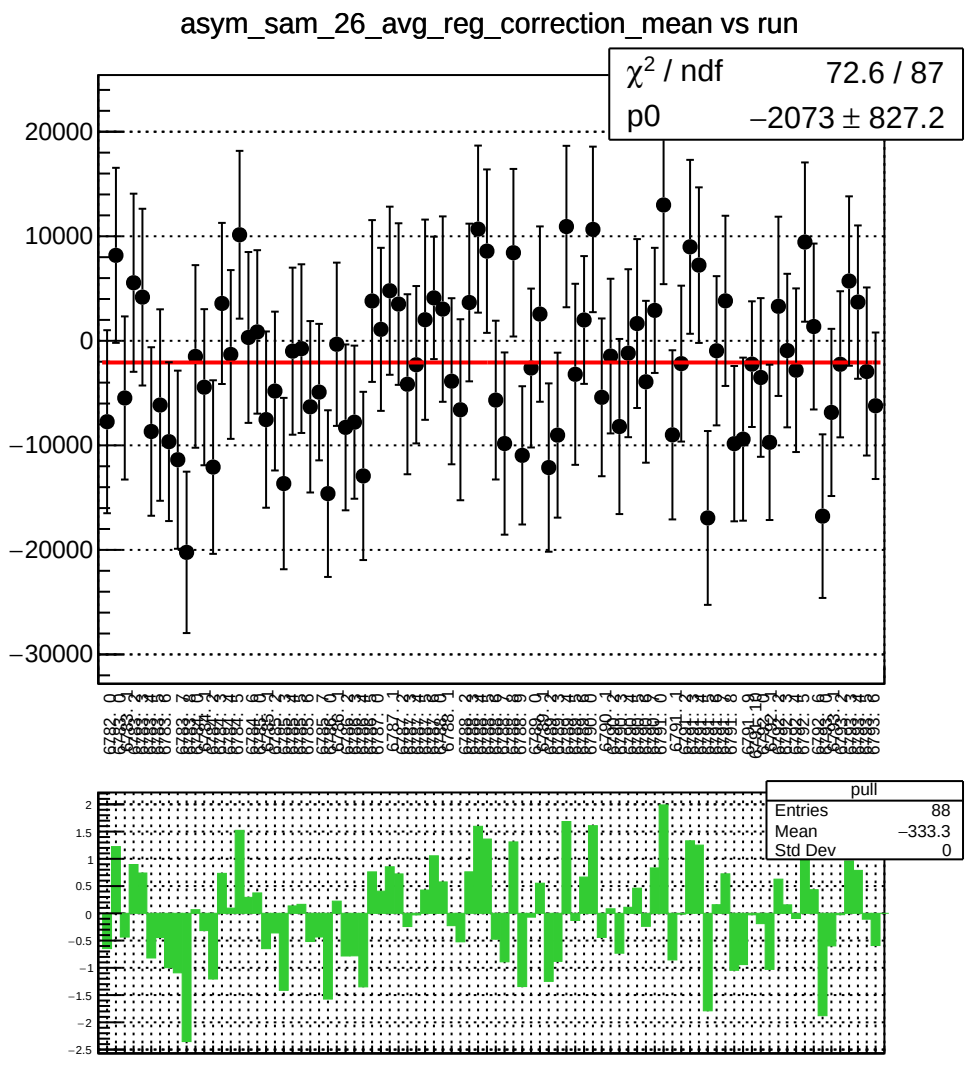

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.7 / 87
p0 −3.919e−15 ± 7.517e−15
pull
Entries 88
Mean 65.75
Std Dev 7.189

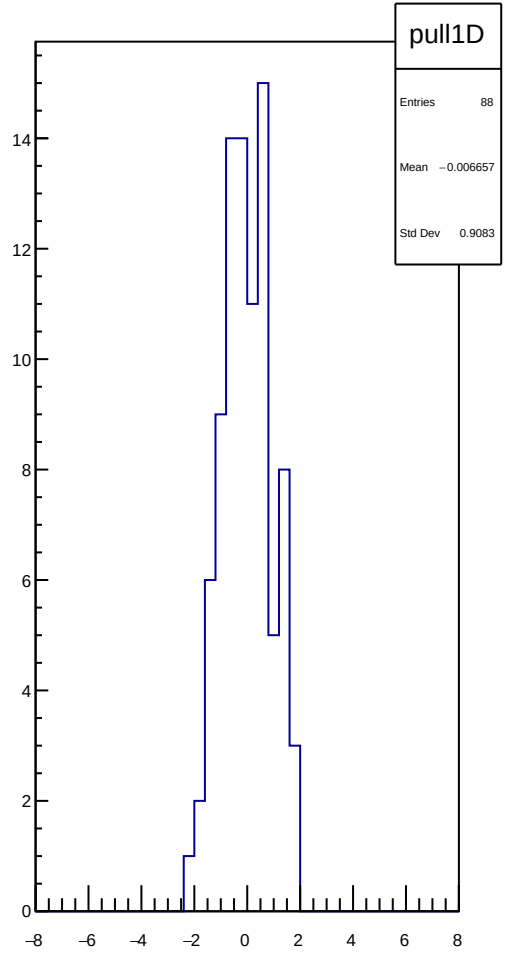

pull1D
Entries 88
Mean 0.03723
Std Dev 1.09

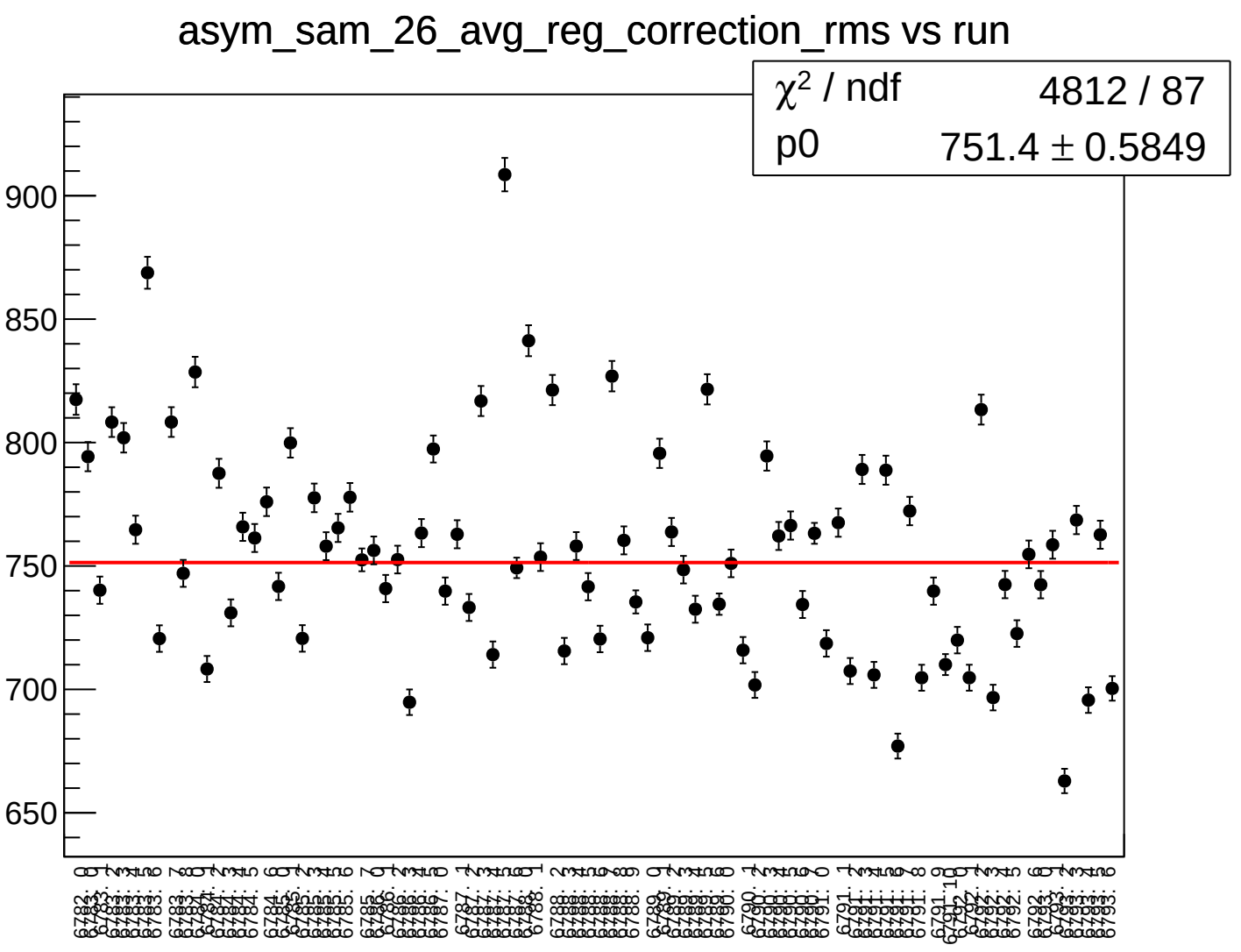

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.137e+05 / 87
p0 5.678e−12 ± 5.315e−15
35
30
25
20
15
10
5

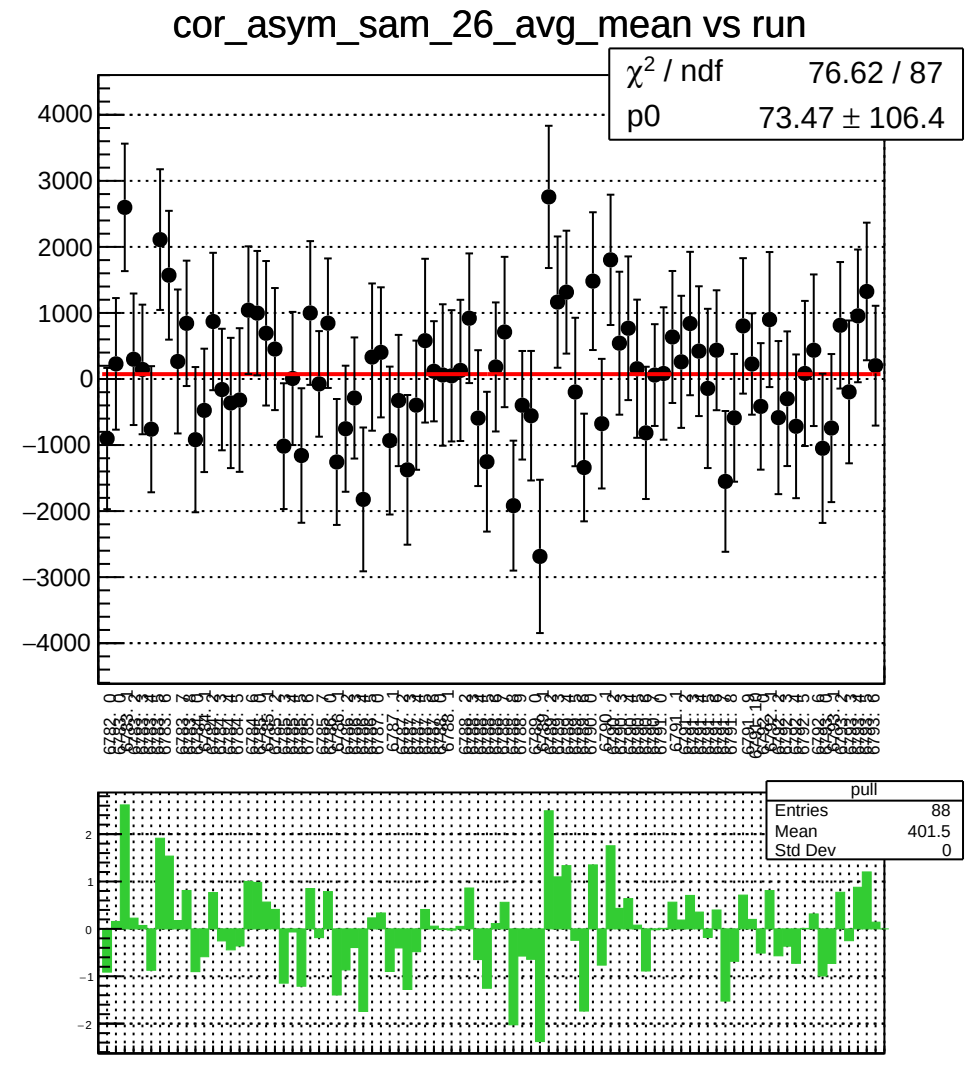

reg_asym_sam_26_avg_mean vs run
χ² / ndf 76.62 / 87
p0 73.46 ± 106.4
pull
Entries 88
Mean 401.6
Std Dev 0
pull1D
Entries 88
Mean −0.002235
Std Dev 0.9331

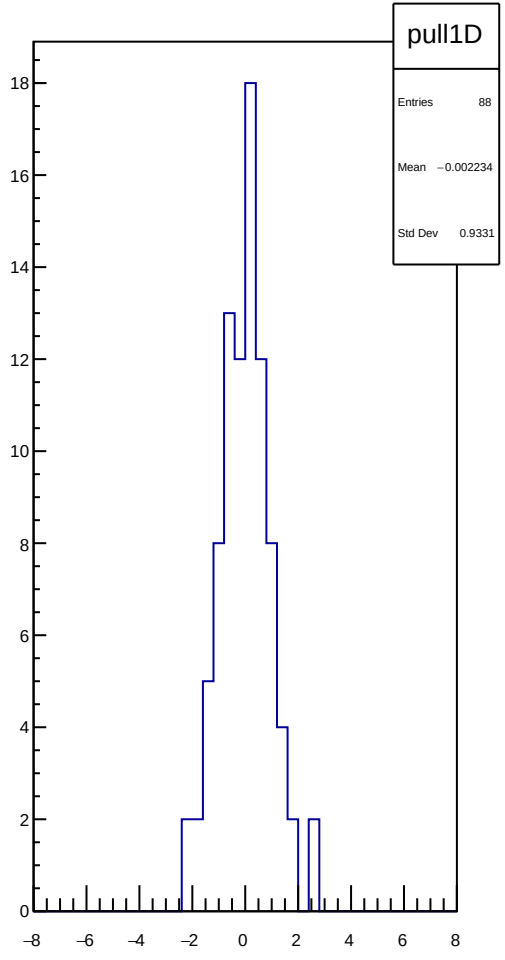

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 7309 / 87
p0 96.59 ± 0.07525
120
115
110
105
100
95
90
85

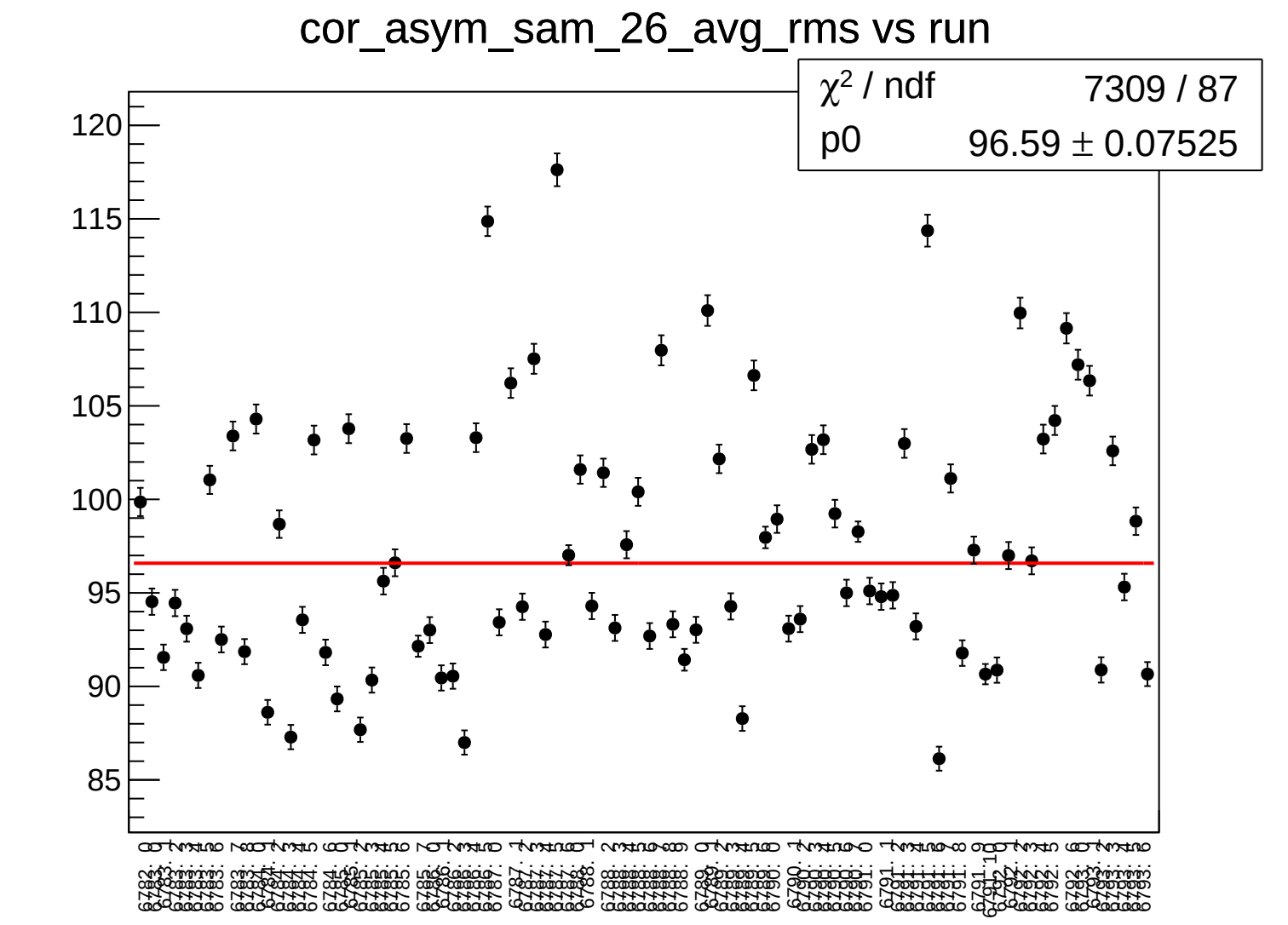

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 72.6 / 87
p0 −2073 ± 827.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −333.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

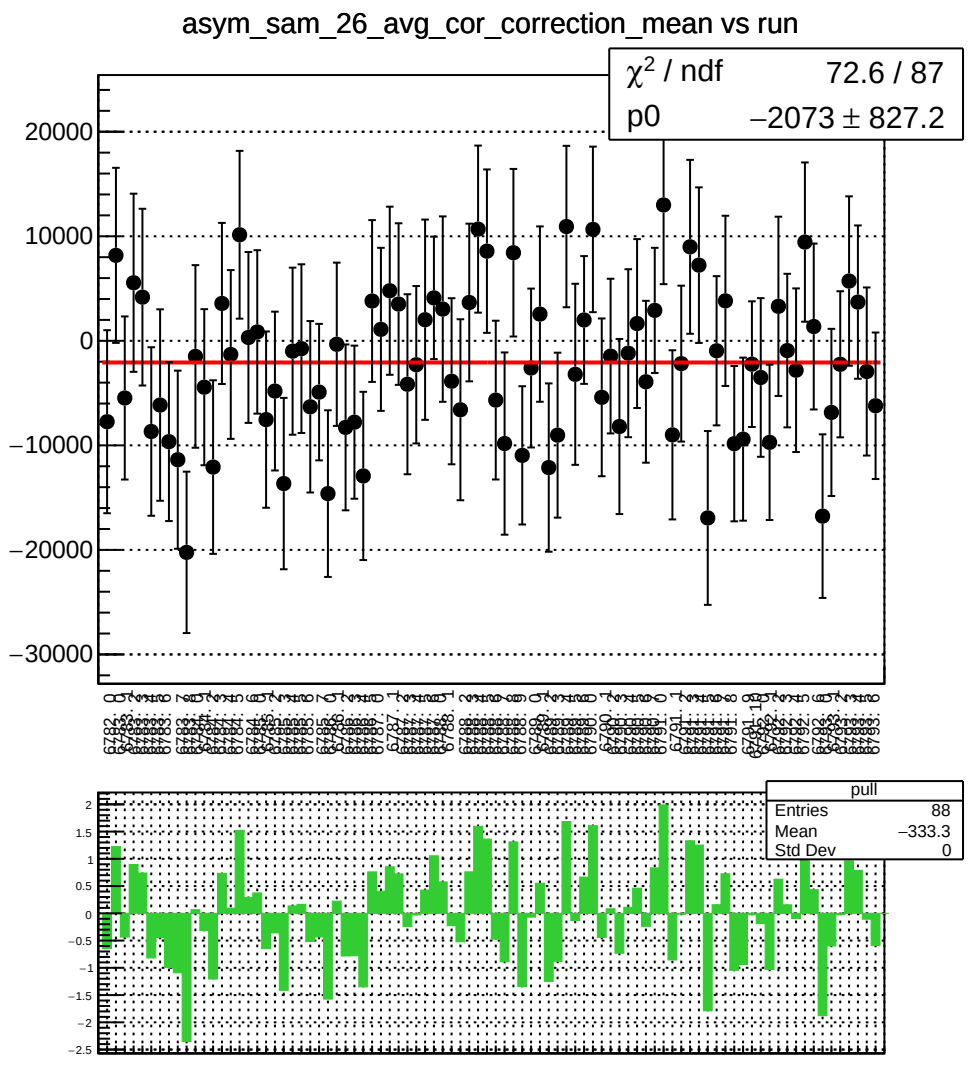

pull1D
Entries 88
Mean −0.006657
Std Dev 0.9083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

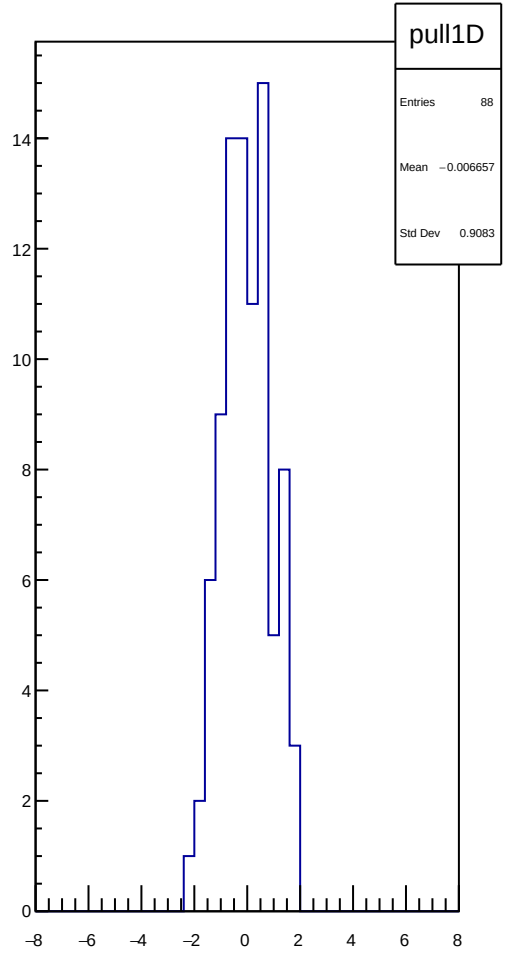

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 4812 / 87
p0 751.4 ± 0.5849
900
850
800
750
700
650

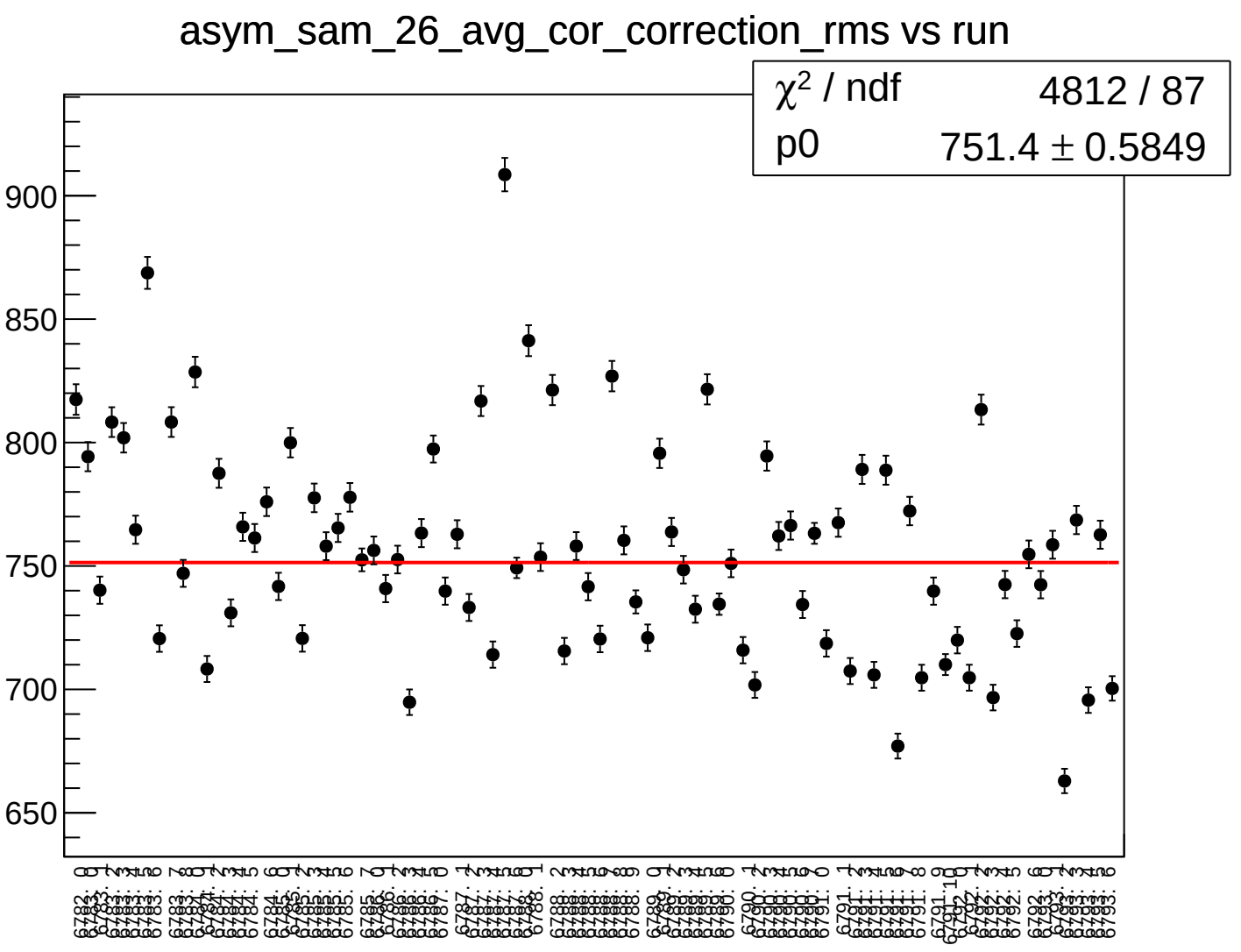

cor_asym_sam_26_avg_mean vs run
χ² / ndf 76.62 / 87
p0 73.47 ± 106.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 401.5
Std Dev 0
2
1
0
−1
−2

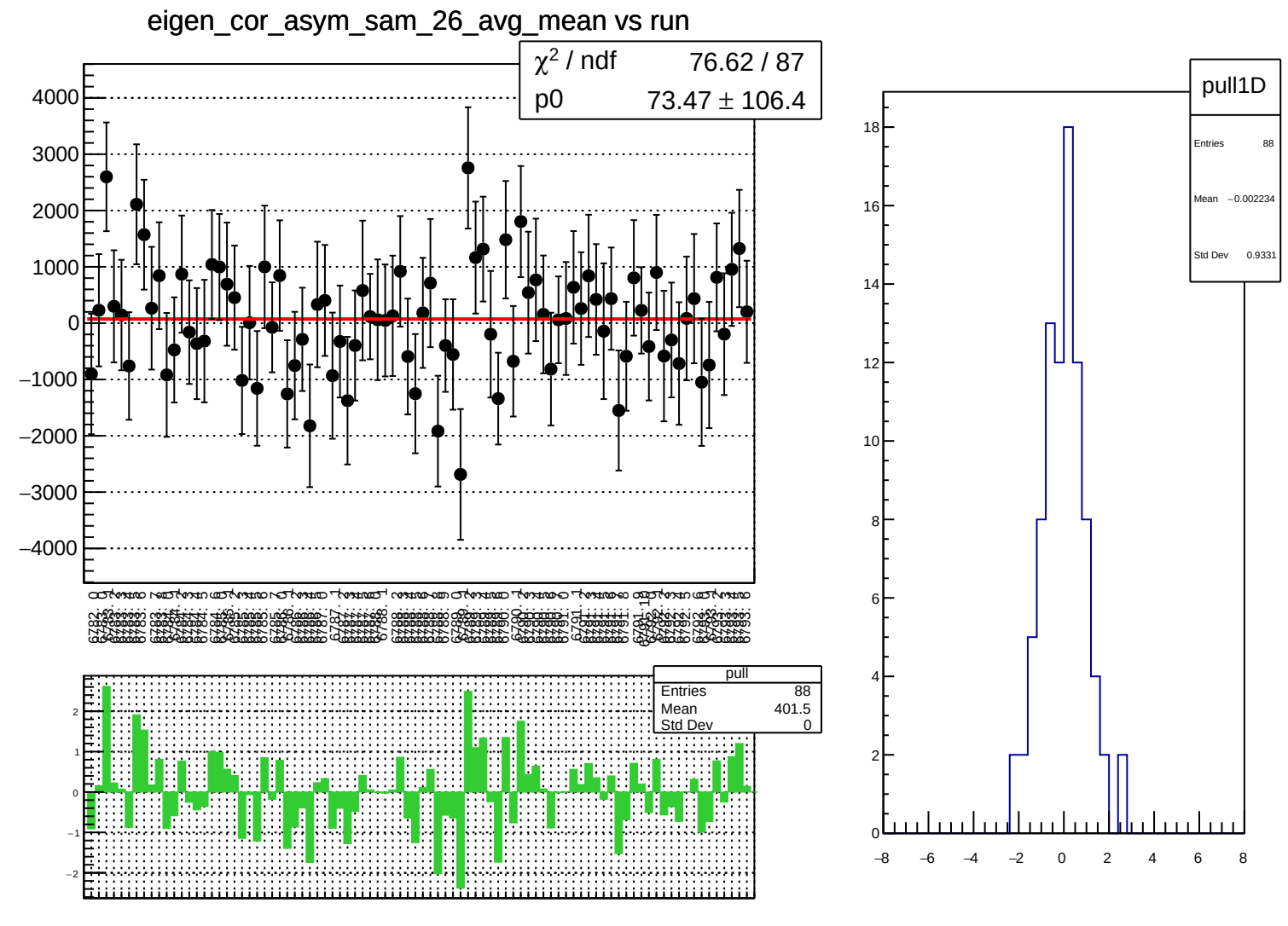

pull1D
Entries 88
Mean −0.002234
Std Dev 0.9331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

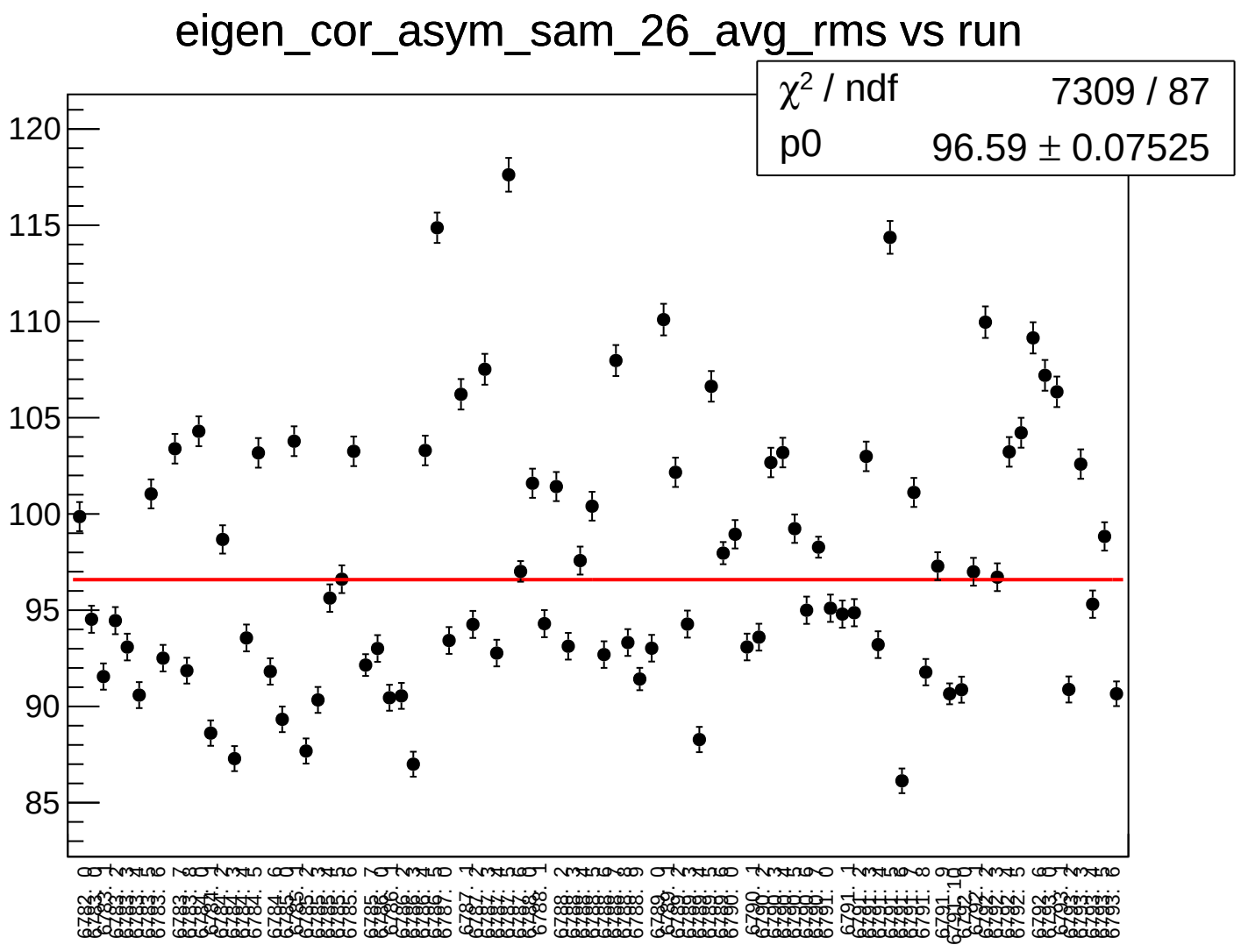

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 7309 / 87
p0 96.59 ± 0.07525
120
115
110
105
100
95
90
85

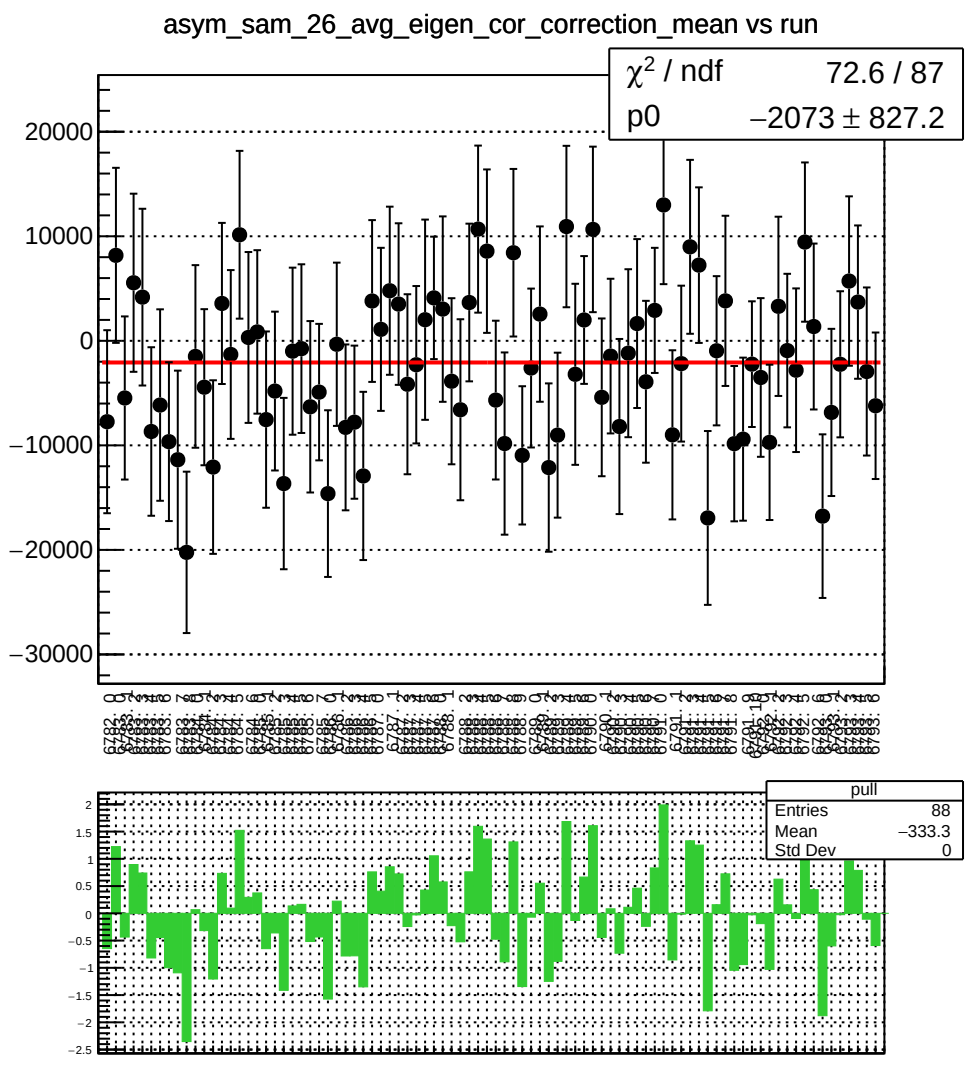

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 72.6 / 87
p0 −2073 ± 827.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −333.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

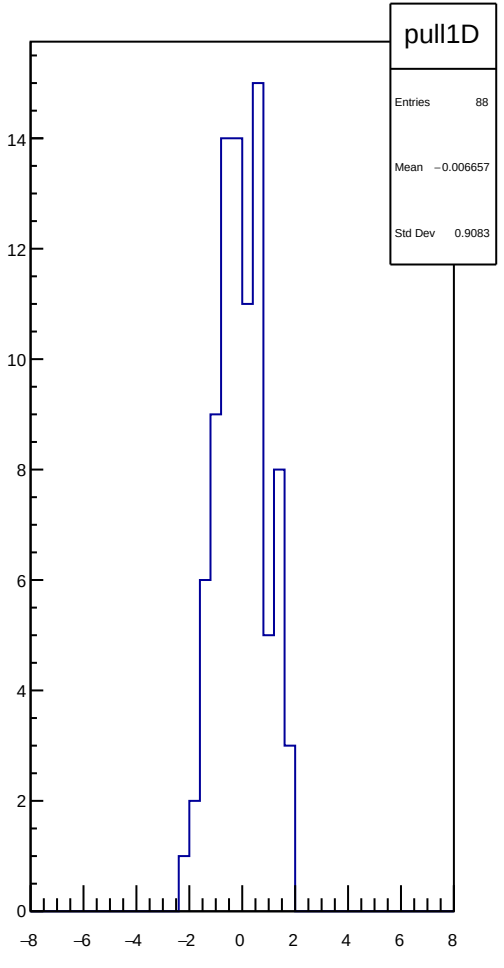

pull1D
Entries 88
Mean −0.006657
Std Dev 0.9083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

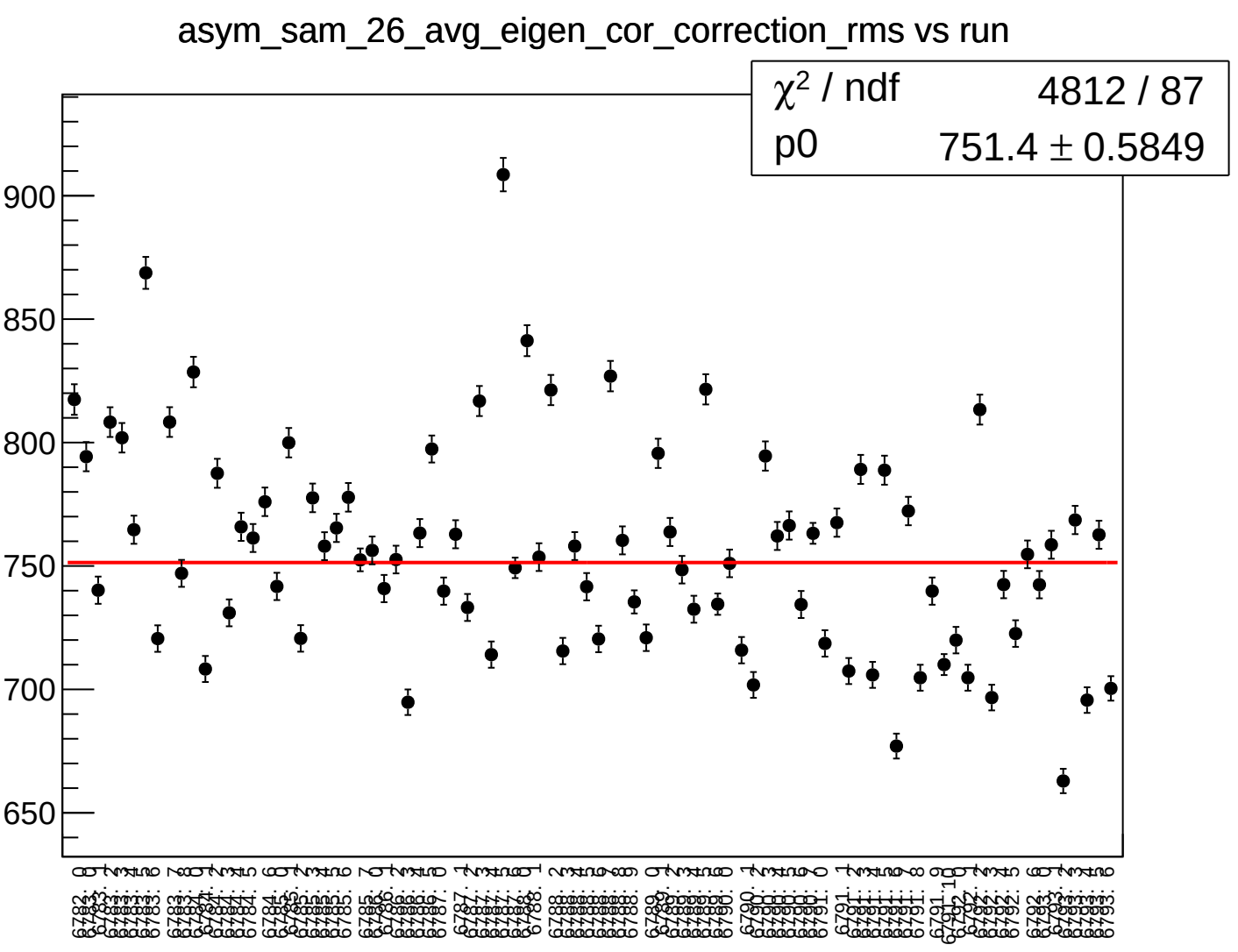

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4812 / 87
p0 751.4 ± 0.5849
900
850
800
750
700
650

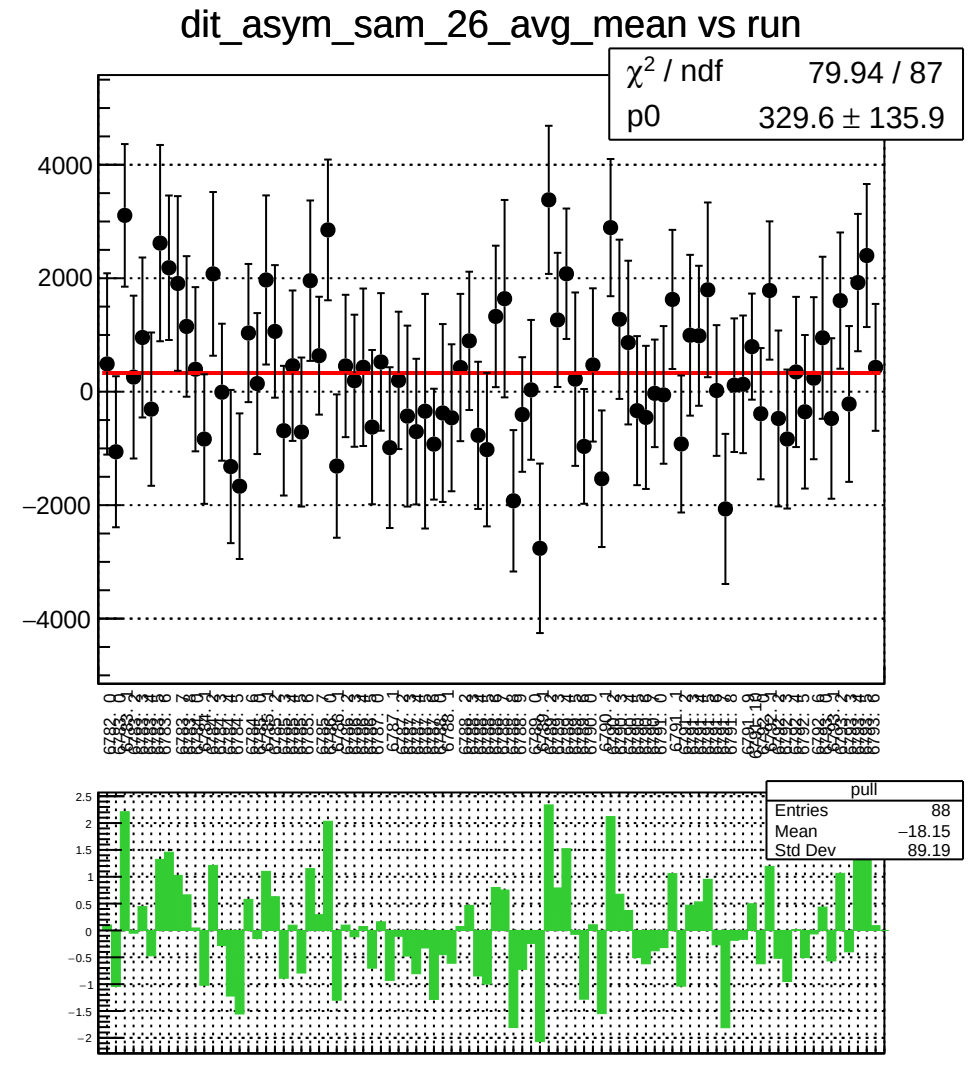

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 76.62 / 87
p0 73.47 ± 106.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 401.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002234
Std Dev 0.9331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

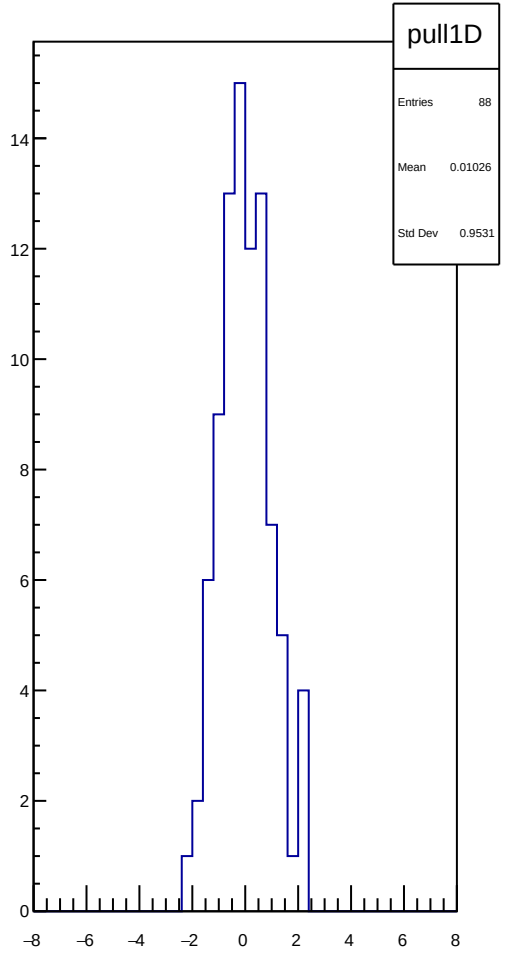

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 7309 / 87
p0 96.59 ± 0.07525
120
115
110
105
100
95
90
85

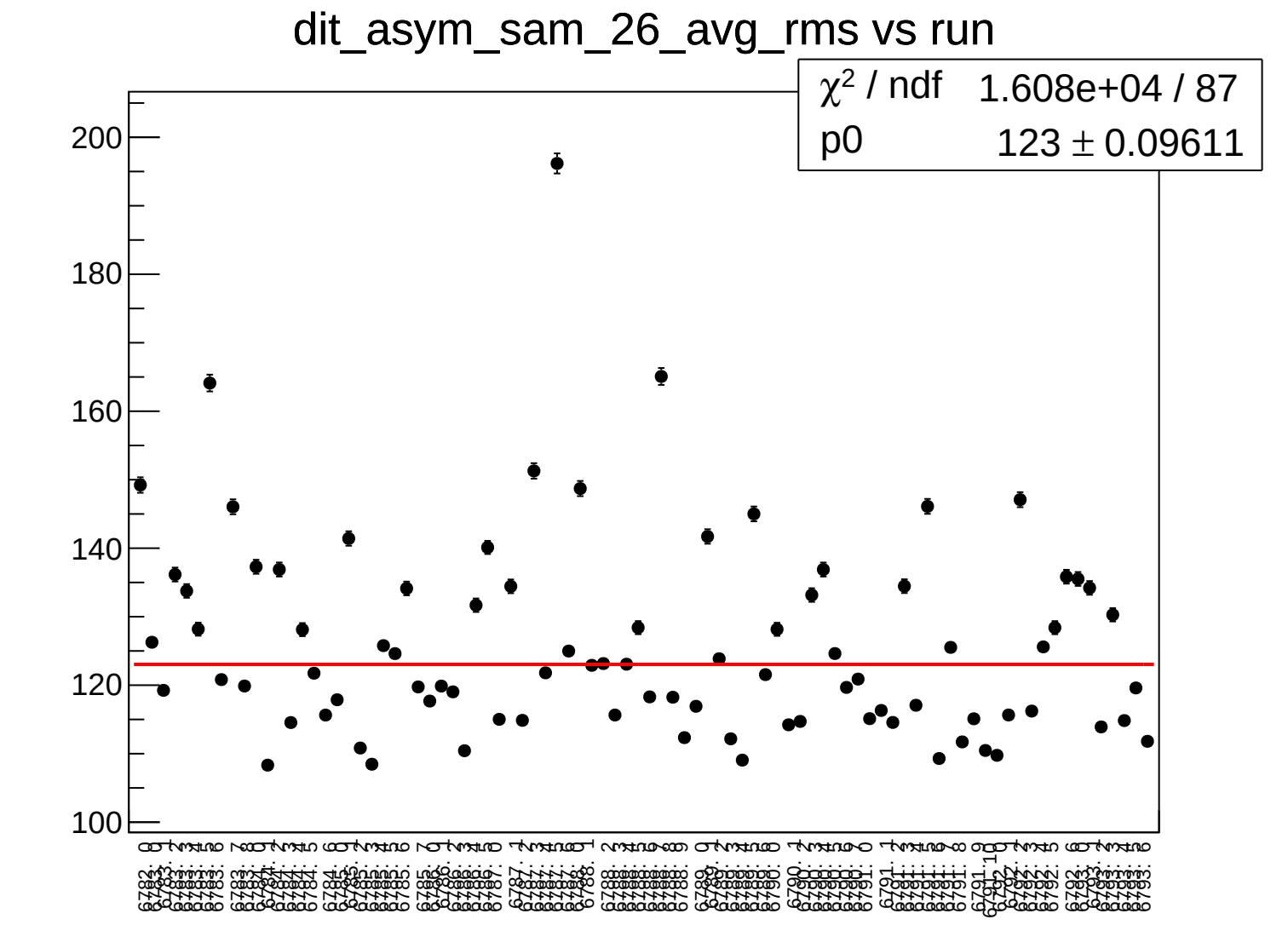

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.6 / 87
p0 −2073 ± 827.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −333.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

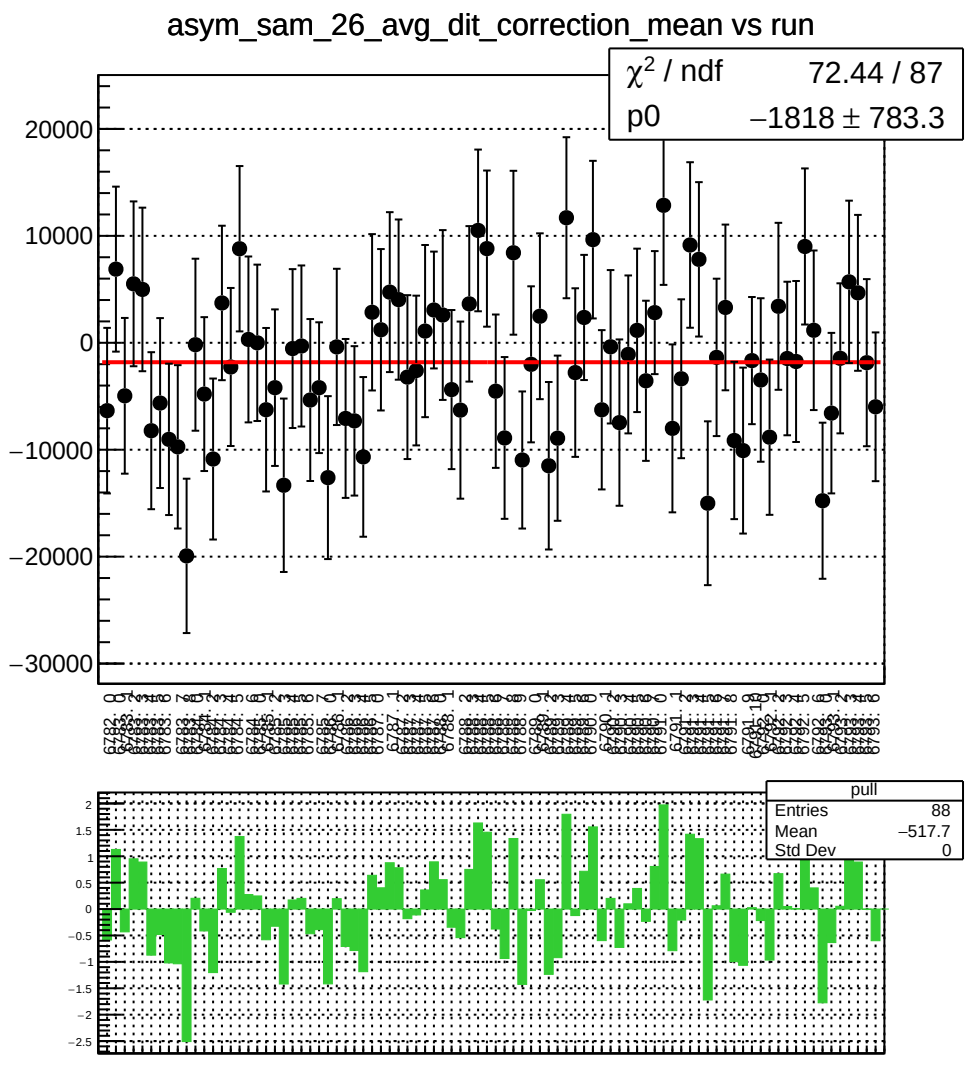

pull1D
Entries 88
Mean −0.006657
Std Dev 0.9083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

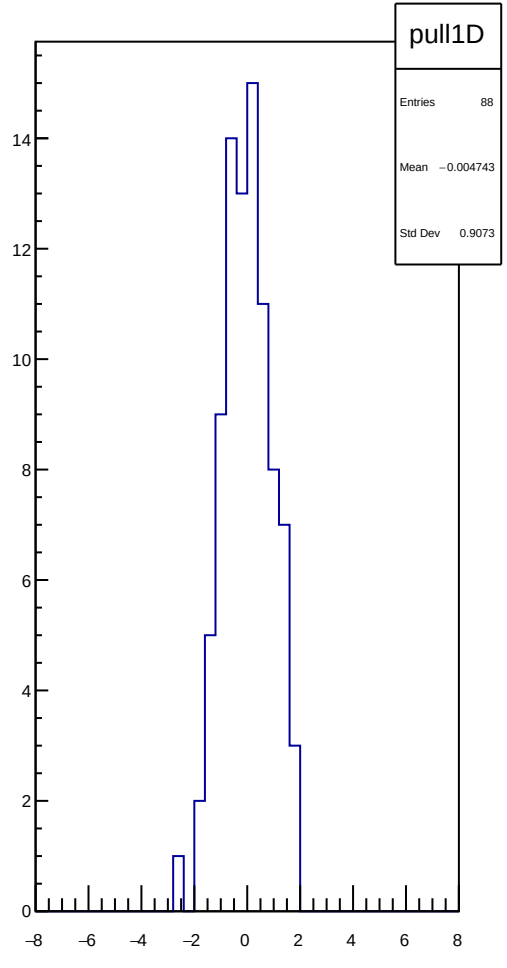

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4812 / 87
p0 751.4 ± 0.5849
900
850
800
750
700
650

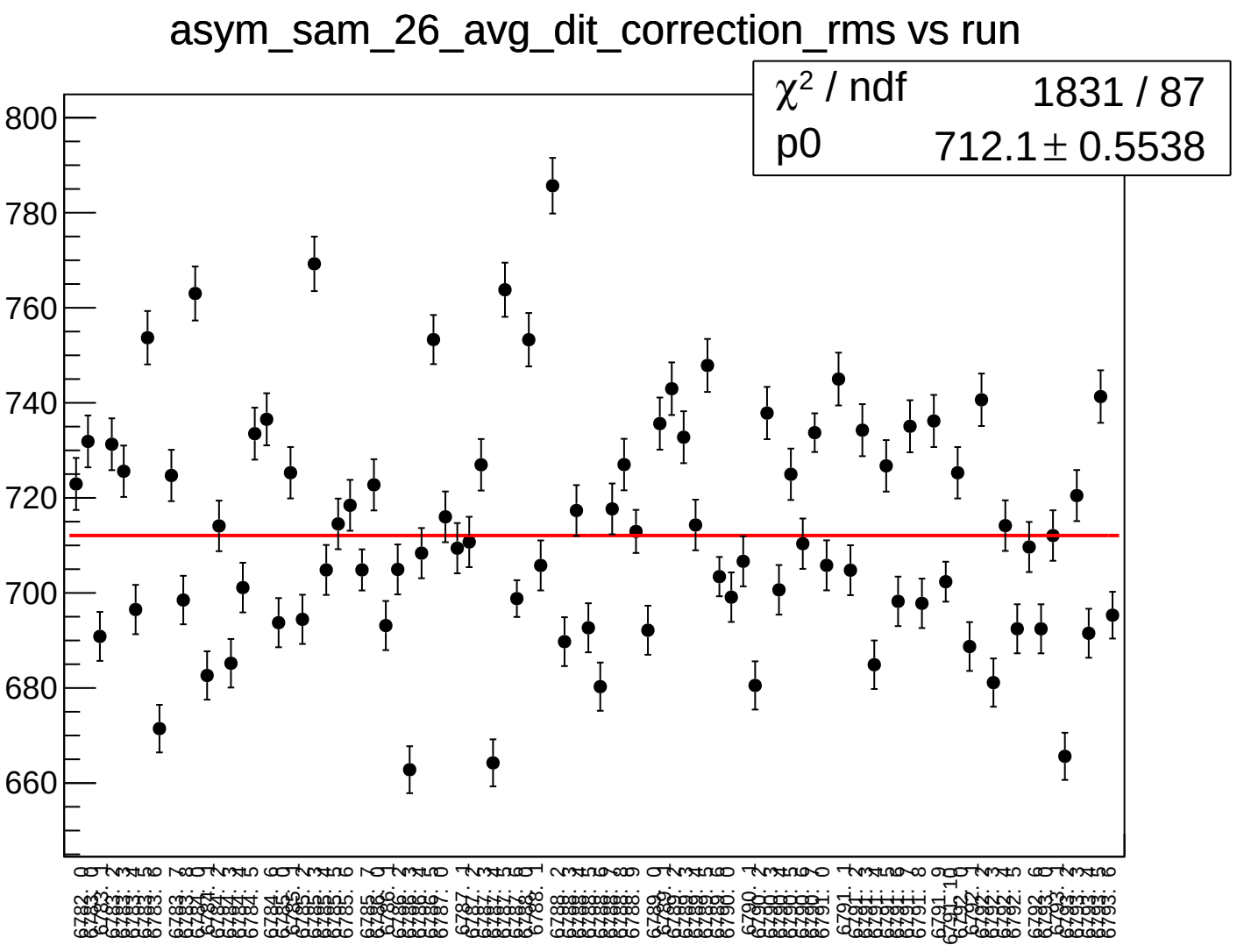

dit_asym_sam_26_avg_mean vs run
χ² / ndf 79.94 / 87
p0 329.6 ± 135.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −18.15
Std Dev 89.19
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

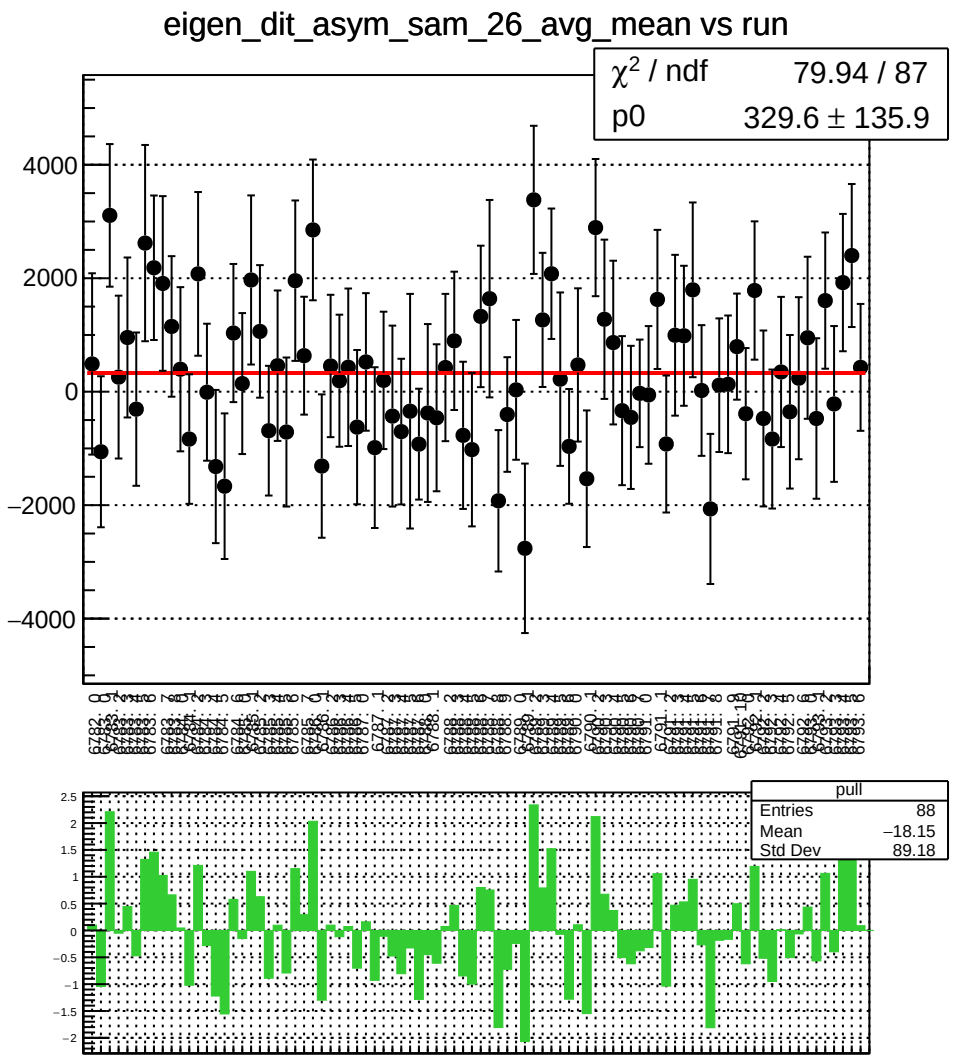

pull1D
Entries 88
Mean 0.01026
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

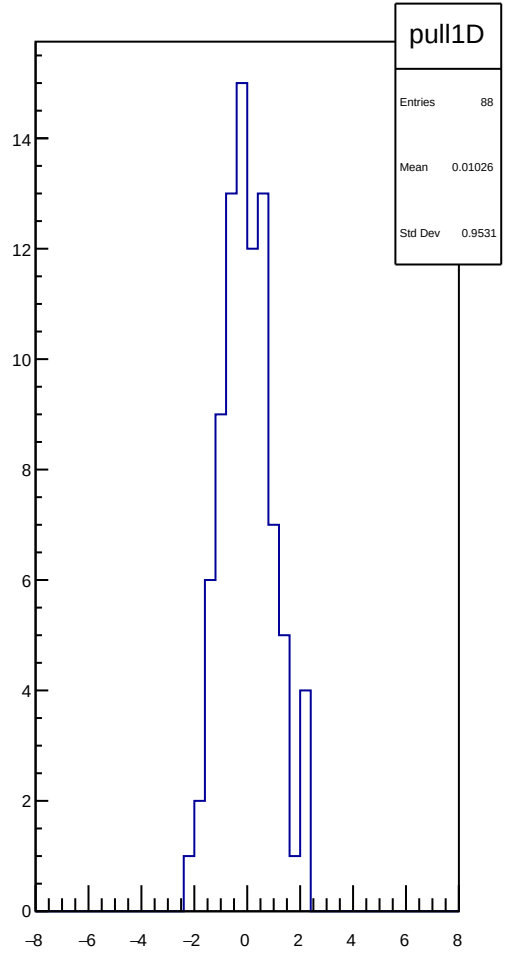

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.608e+04 / 87
p0 123 ± 0.09611
200
180
160
140
120
100

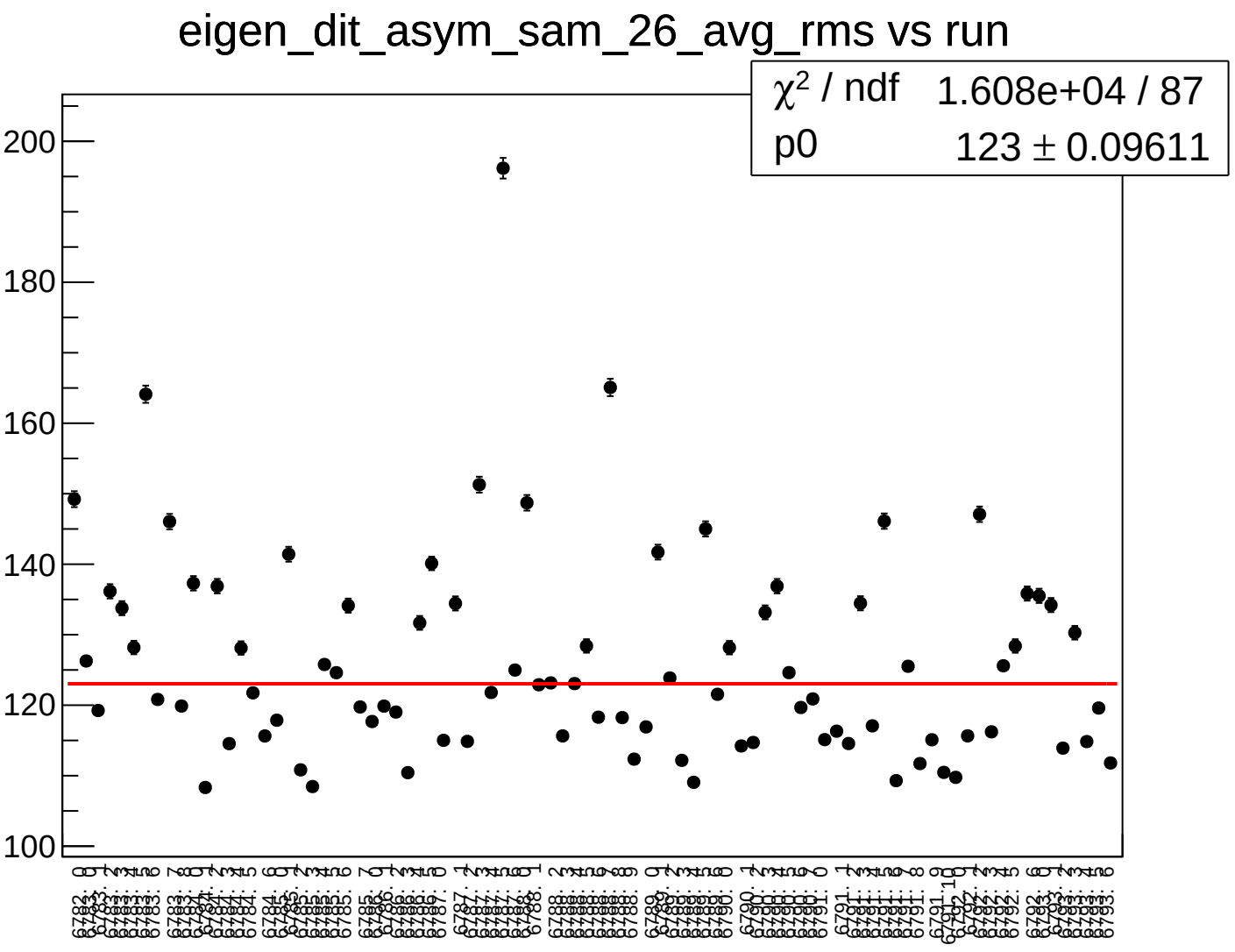

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 72.44 / 87
p0 −1818 ± 783.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −517.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

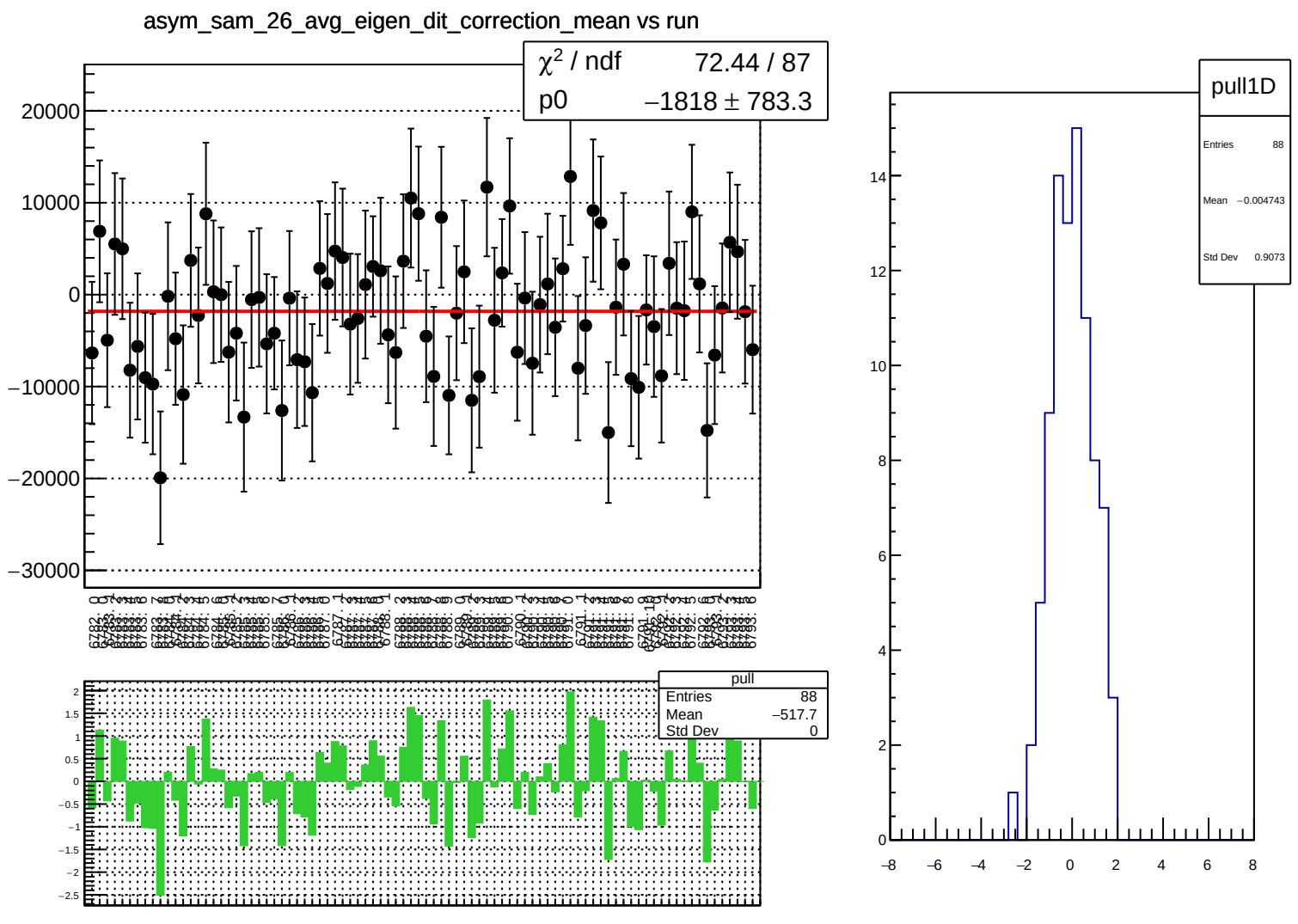

pull1D
Entries 88
Mean −0.004743
Std Dev 0.9073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

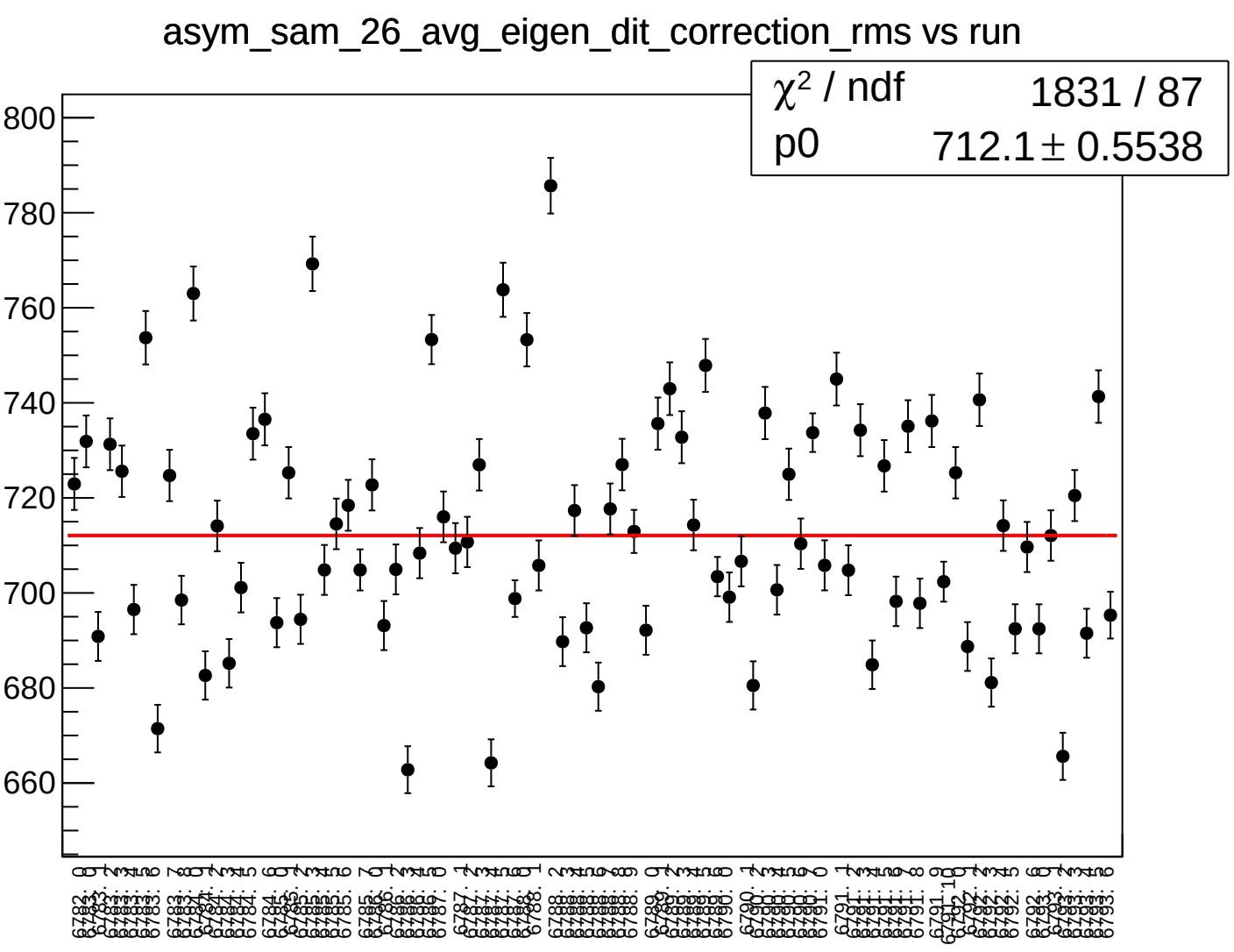

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1831 / 87
p0 712.1 ± 0.5538
800
780
760
740
720
700
680
660

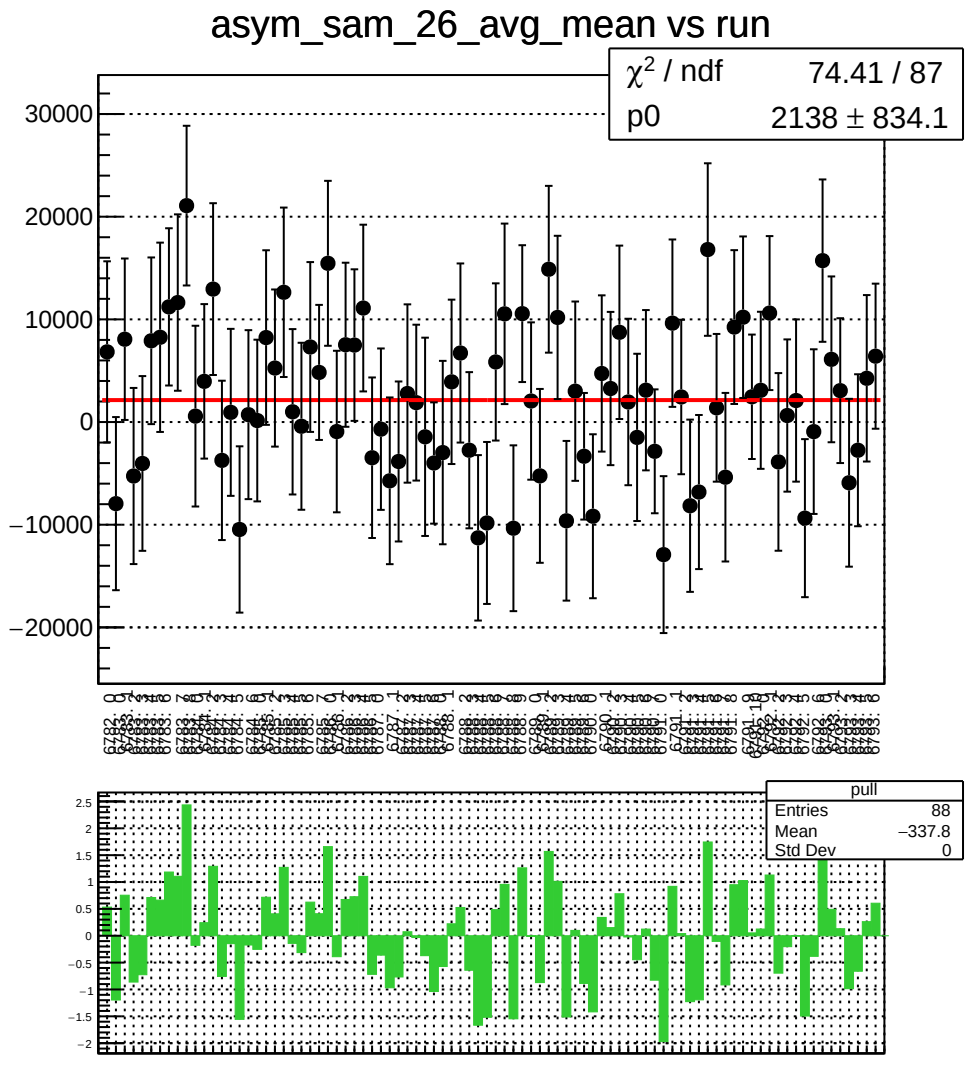

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 79.94 / 87
p0 329.6 ± 135.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −18.15
Std Dev 89.18
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

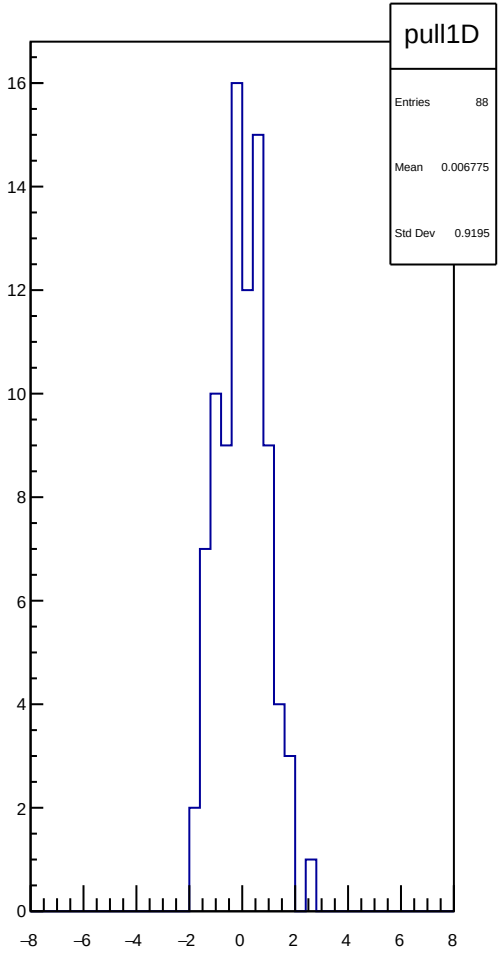

pull1D
Entries 88
Mean 0.01026
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

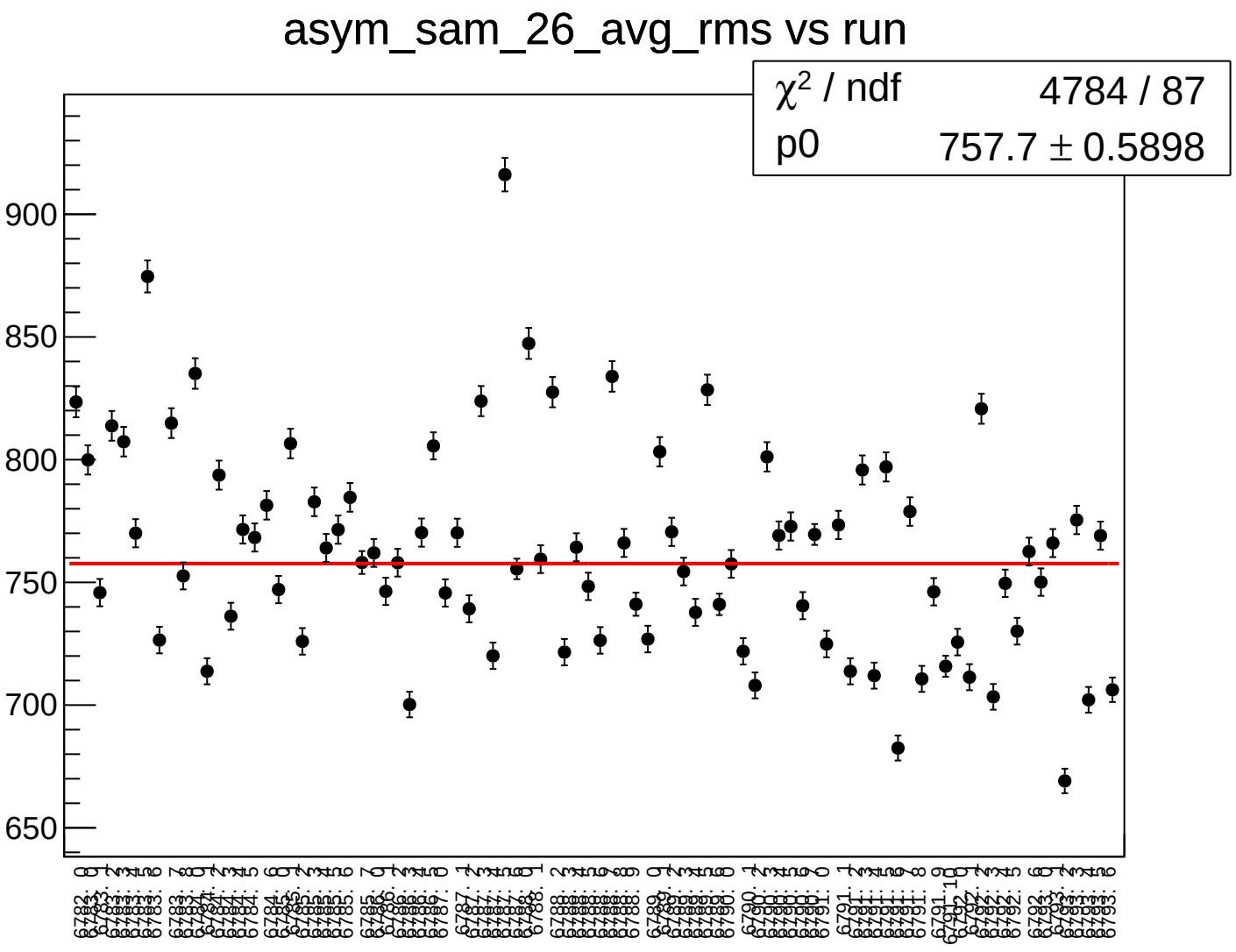

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.608e+04 / 87
p0 123 ± 0.09611
200
180
160
140
120
100

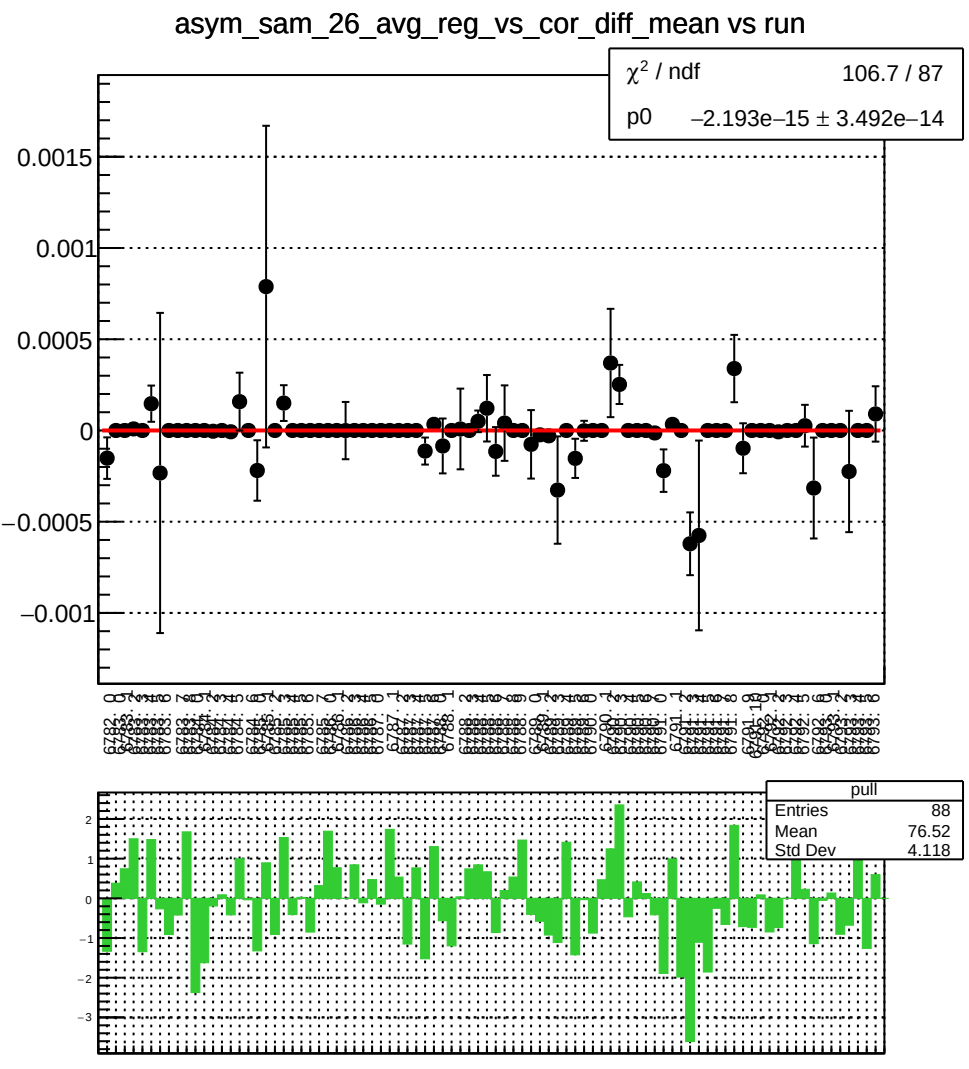

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.44 / 87
p0 −1818 ± 783.3
pull
Entries 88
Mean −517.7
Std Dev 0
pull1D
Entries 88
Mean −0.004743
Std Dev 0.9073

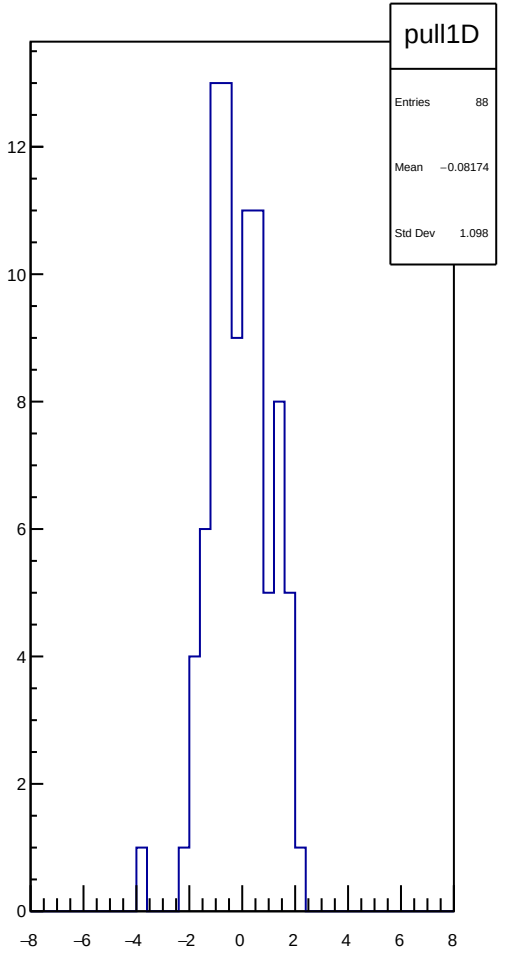

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1831 / 87
p0 712.1 ± 0.5538
800
780
760
740
720
700
680
660

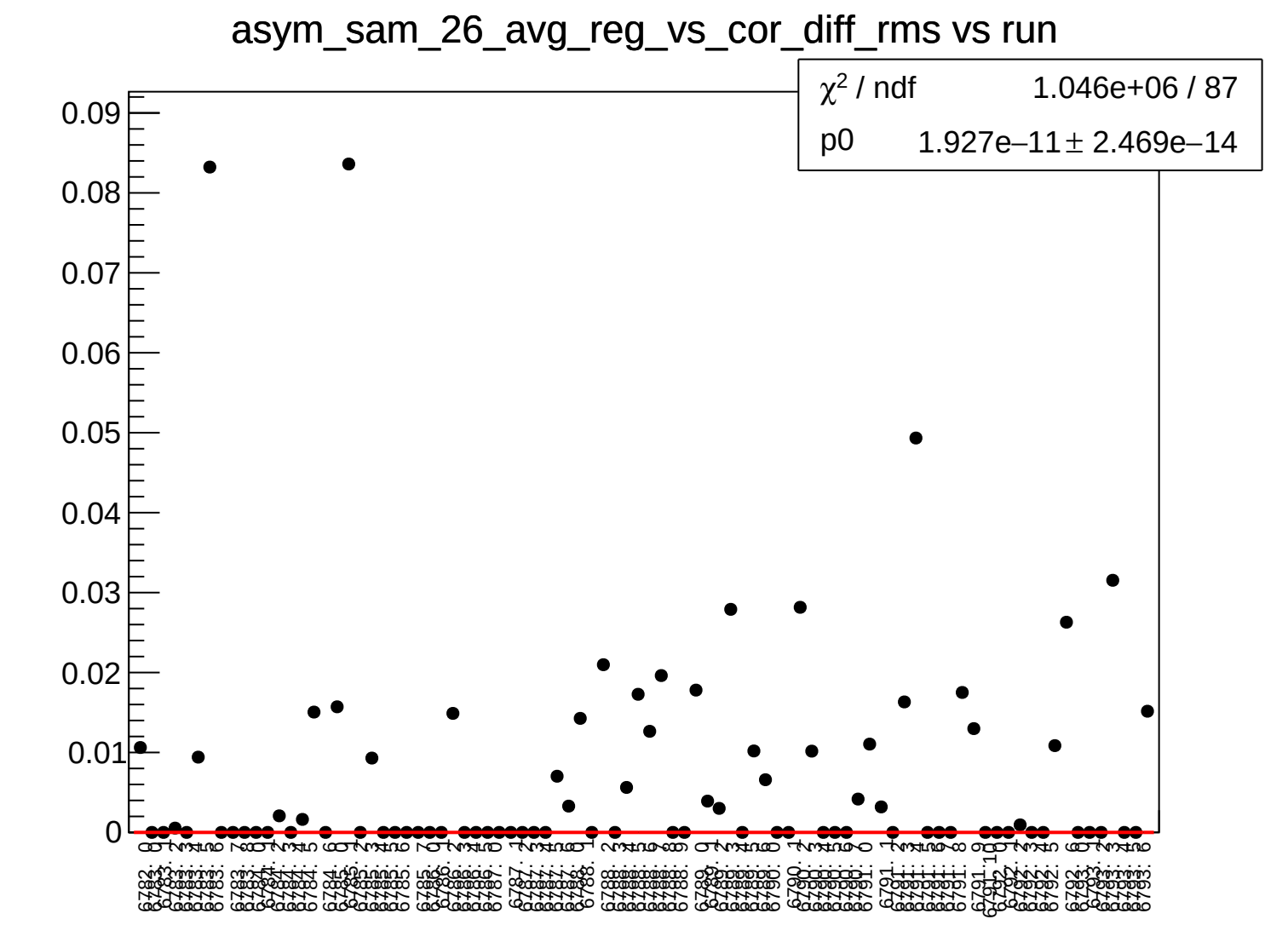

asym_sam_26_avg_mean vs run
χ² / ndf 74.41 / 87
p0 2138 ± 834.1
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −337.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

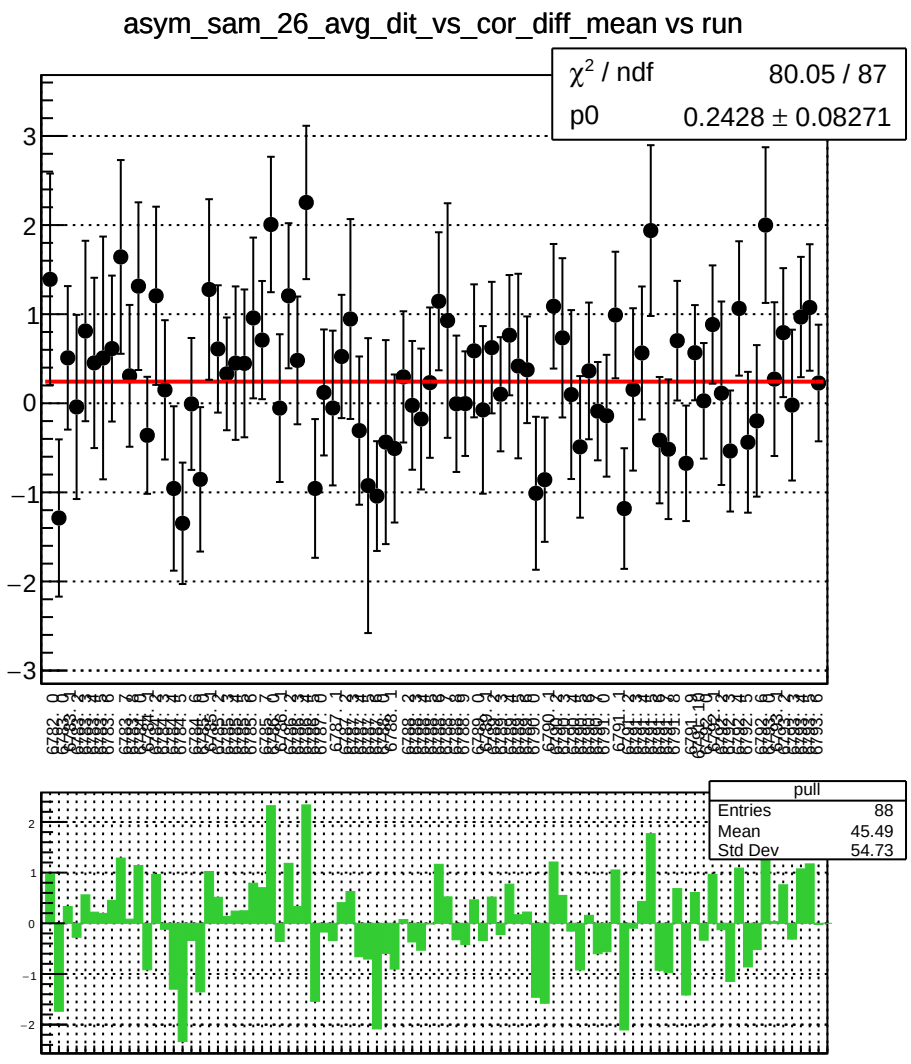

pull1D
Entries 88
Mean 0.006775
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

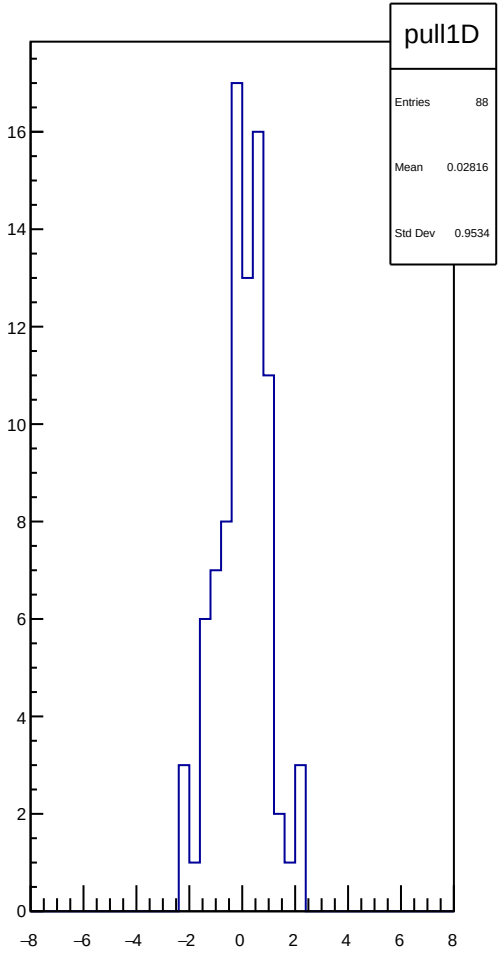

asym_sam_26_avg_rms vs run
χ^2 / ndf 4784 / 87
p0 757.7 ± 0.5898
900
850
800
750
700
650

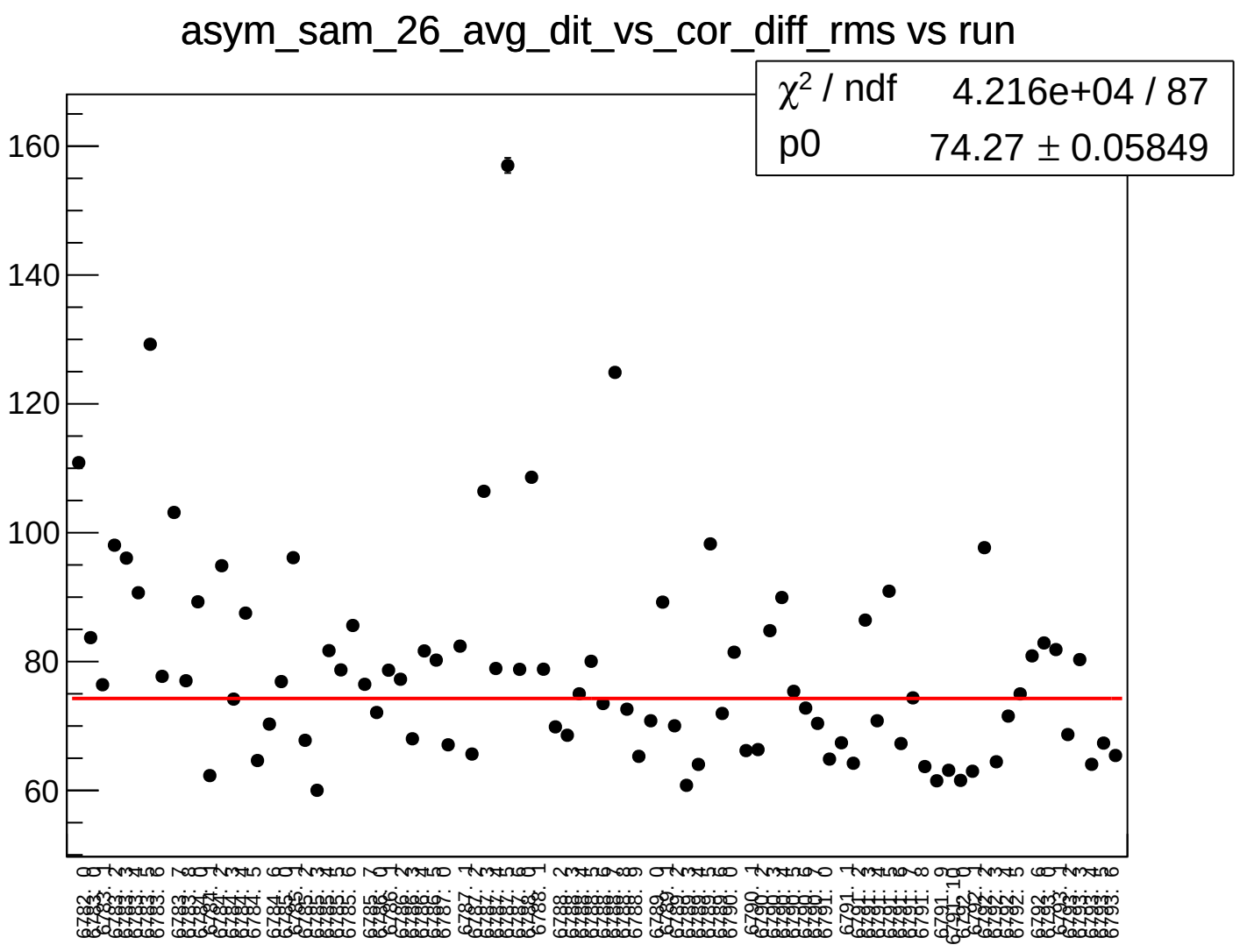

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 87
p0 −2.193e−15 ± 3.492e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 76.52
Std Dev 4.118
2
1
0
−1
−2
−3

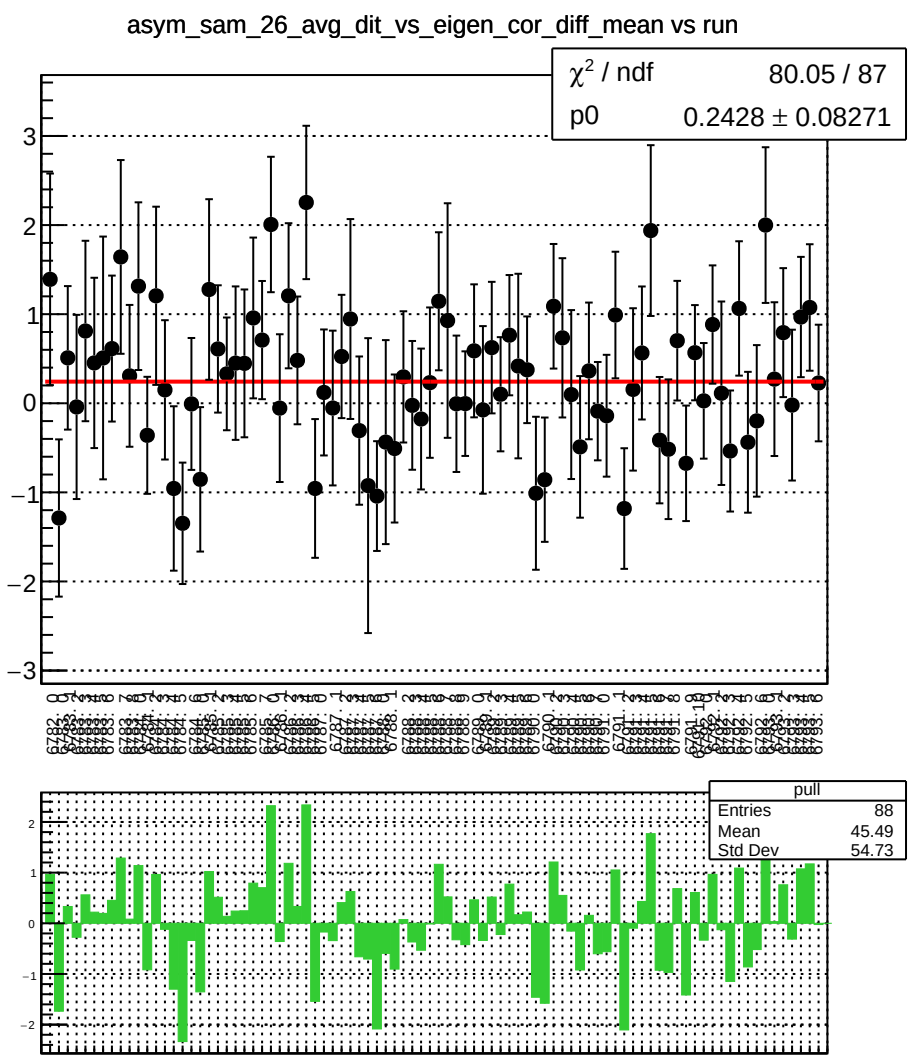

pull1D
Entries 88
Mean −0.08174
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

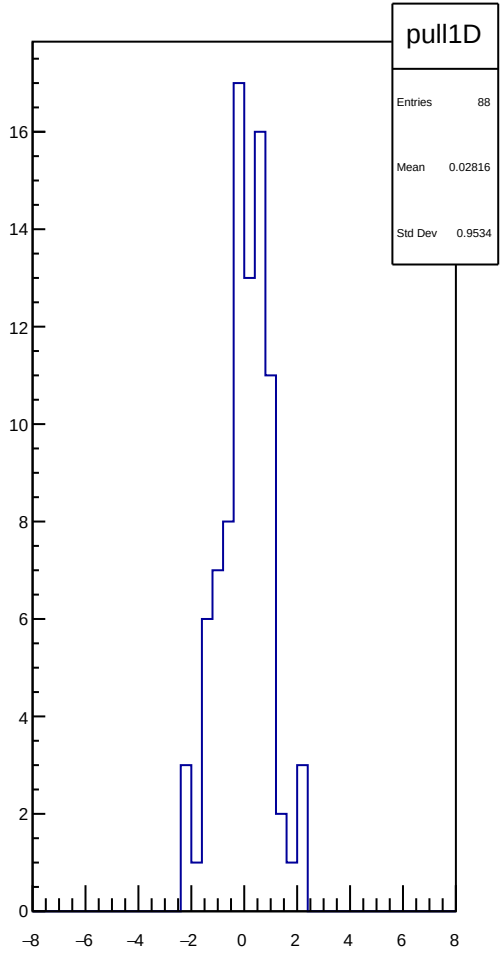

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.046e+06 / 87
p0 1.927e−11 ± 2.469e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

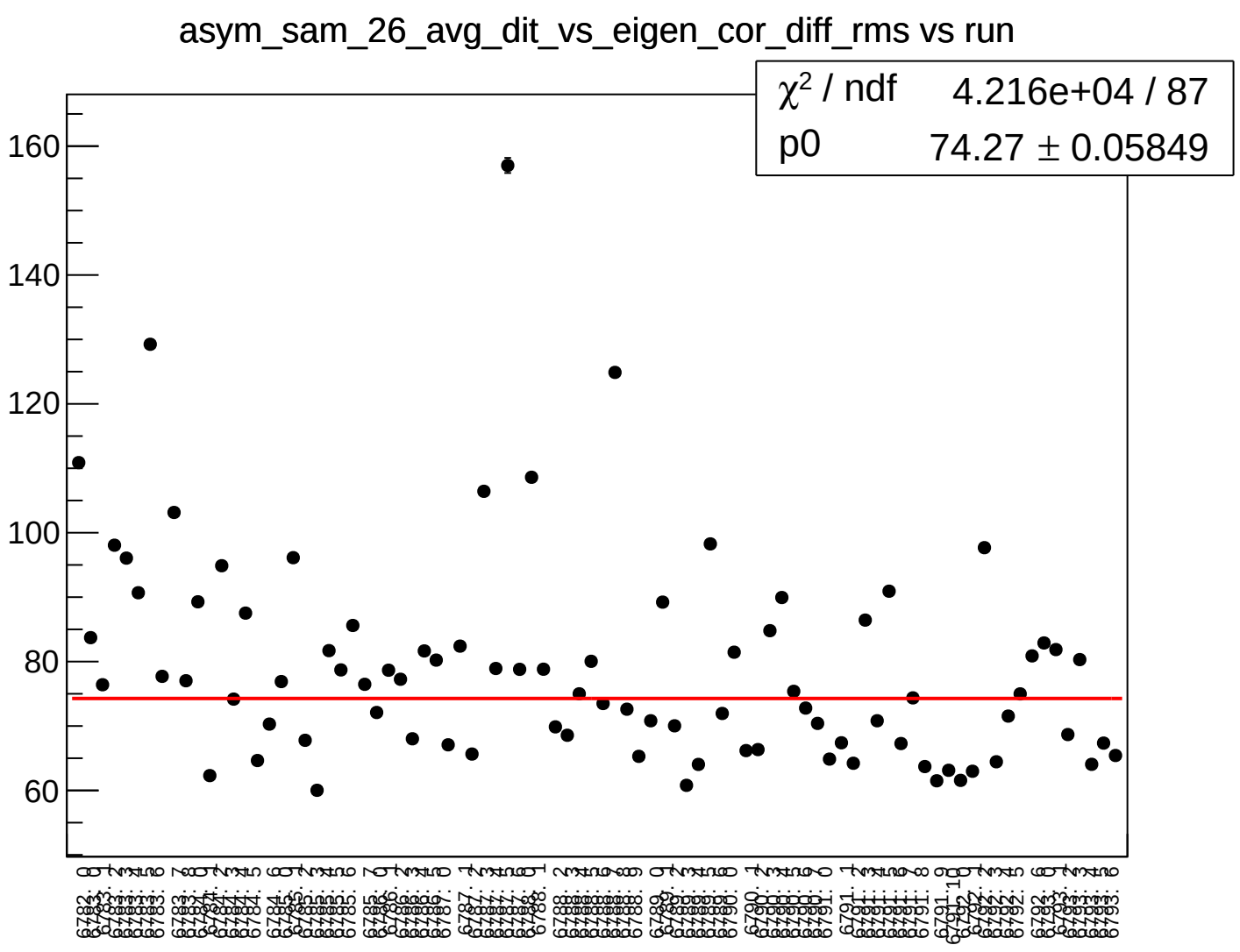

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.05 / 87
p0 0.2428 ± 0.08271
pull
Entries 88
Mean 45.49
Std Dev 54.73

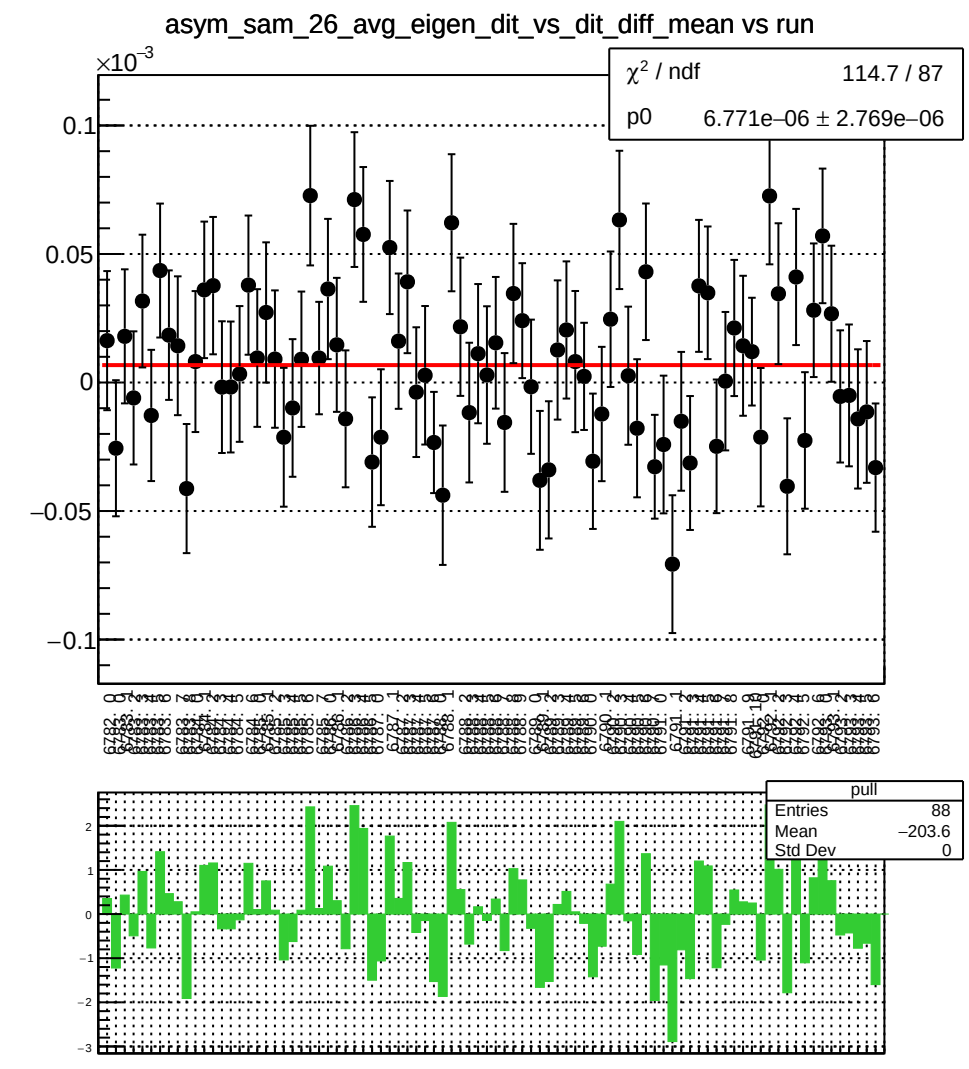

pull1D
Entries 88
Mean 0.02816
Std Dev 0.9534

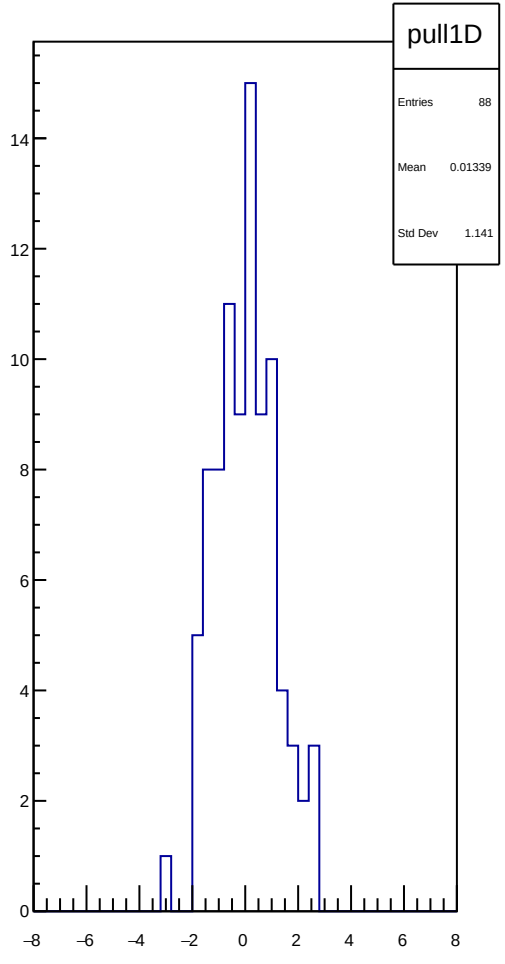

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.216e+04 / 87
p0 74.27 ± 0.05849
160
140
120
100
80
60

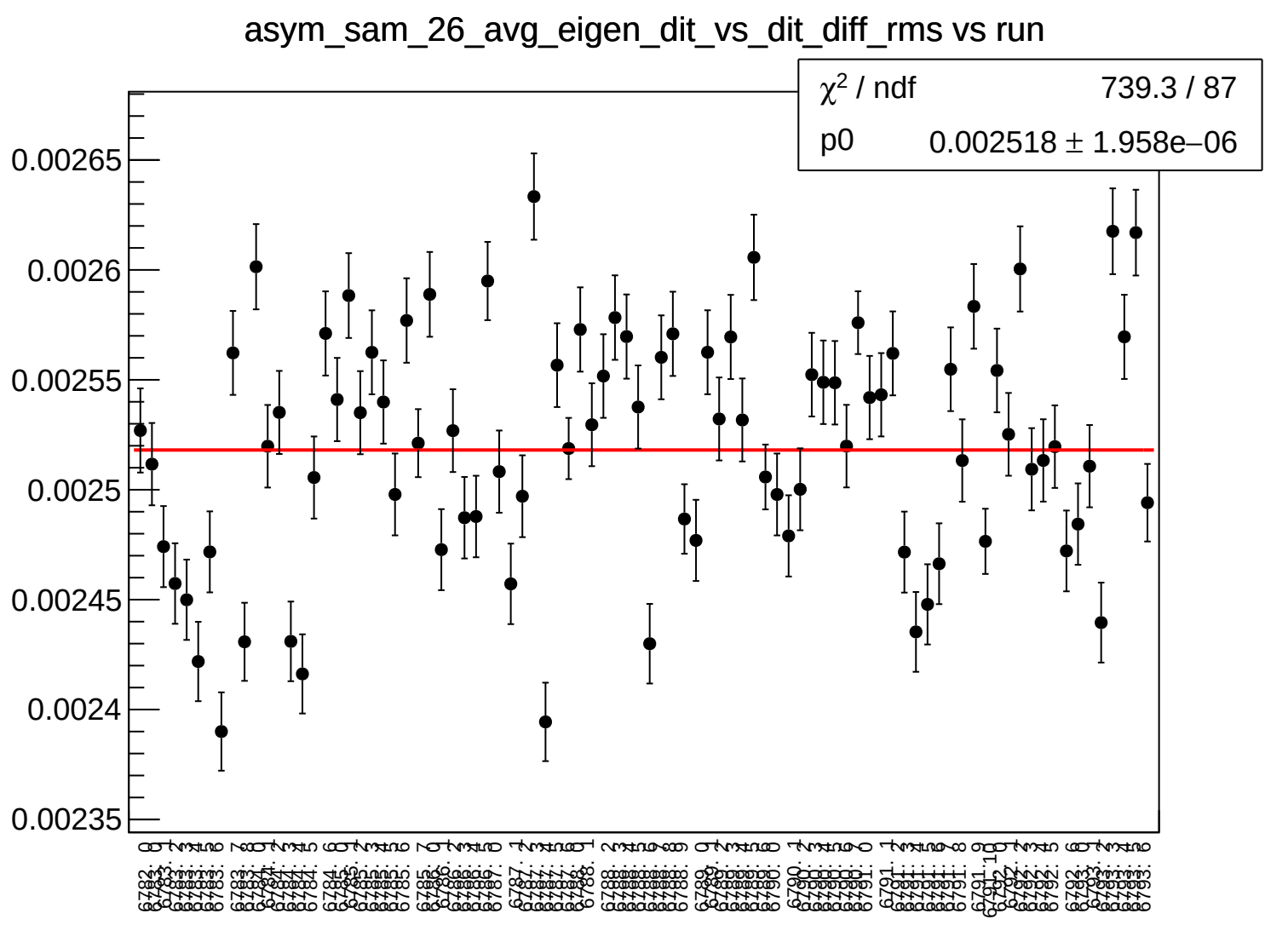

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.05 / 87
p0 0.2428 ± 0.08271
pull
Entries 88
Mean 45.49
Std Dev 54.73

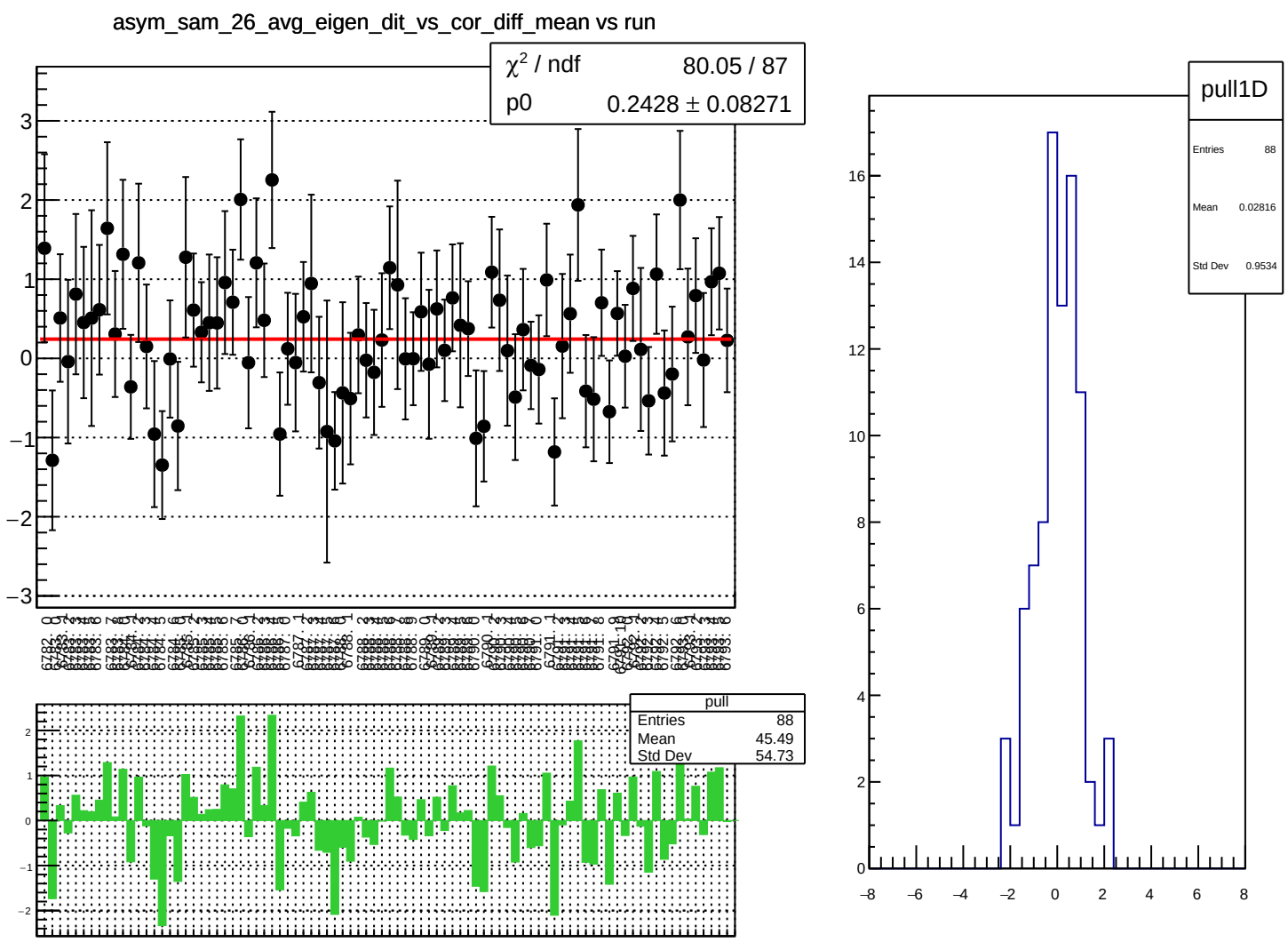

pull1D
Entries 88
Mean 0.02816
Std Dev 0.9534

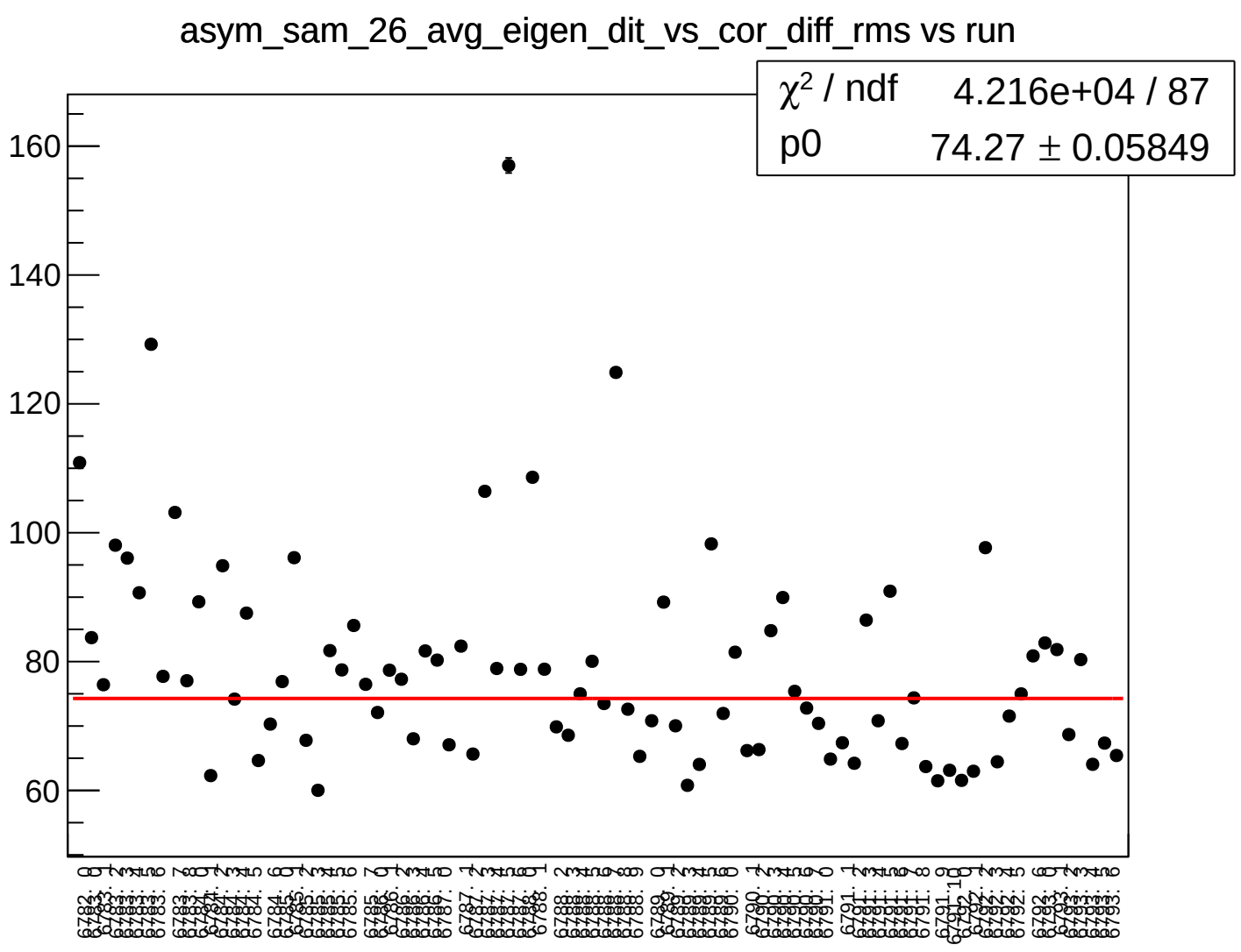

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.216e+04 / 87
p0 74.27 ± 0.05849
160
140
120
100
80
60

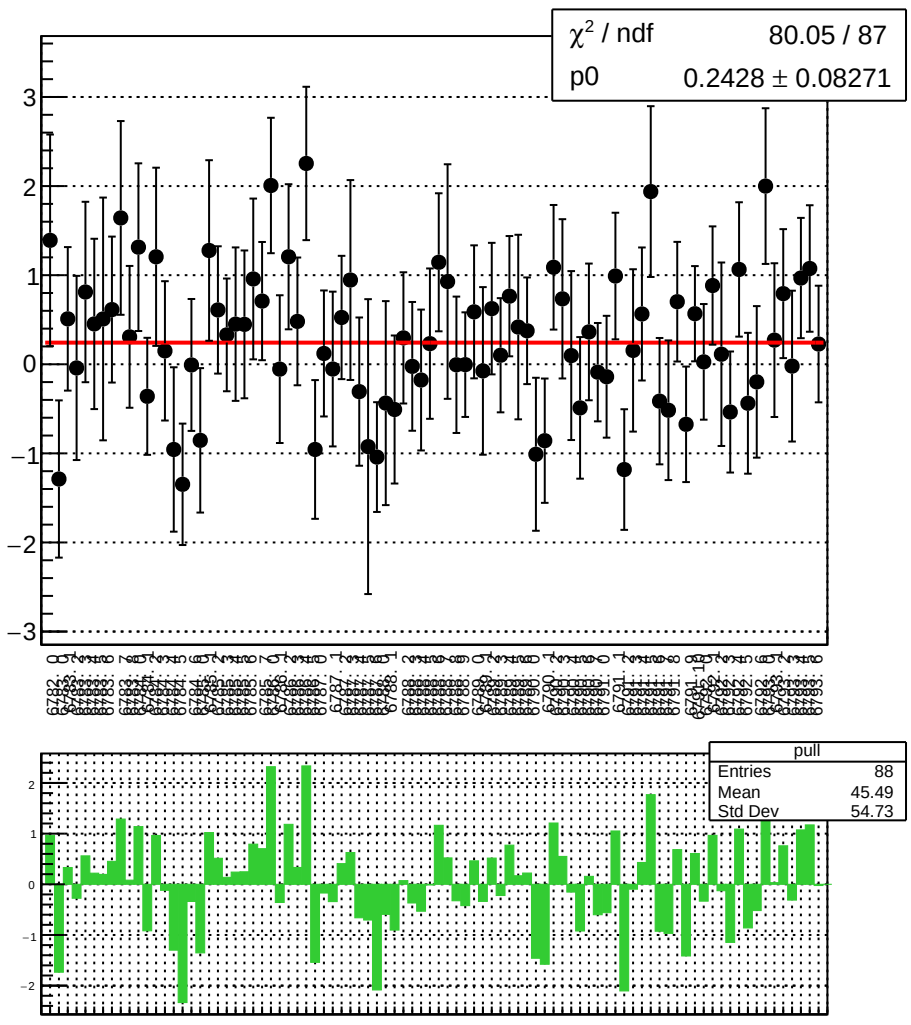

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.7 / 87
p0 6.771e−06 ± 2.769e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −203.6
Std Dev 0
2
1
0
−1
−2
−3

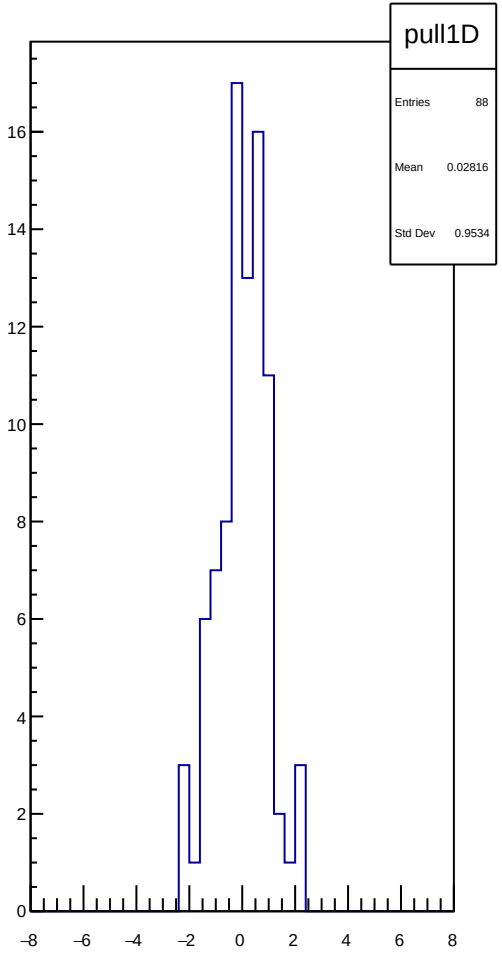

pull1D
Entries 88
Mean 0.01339
Std Dev 1.141
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

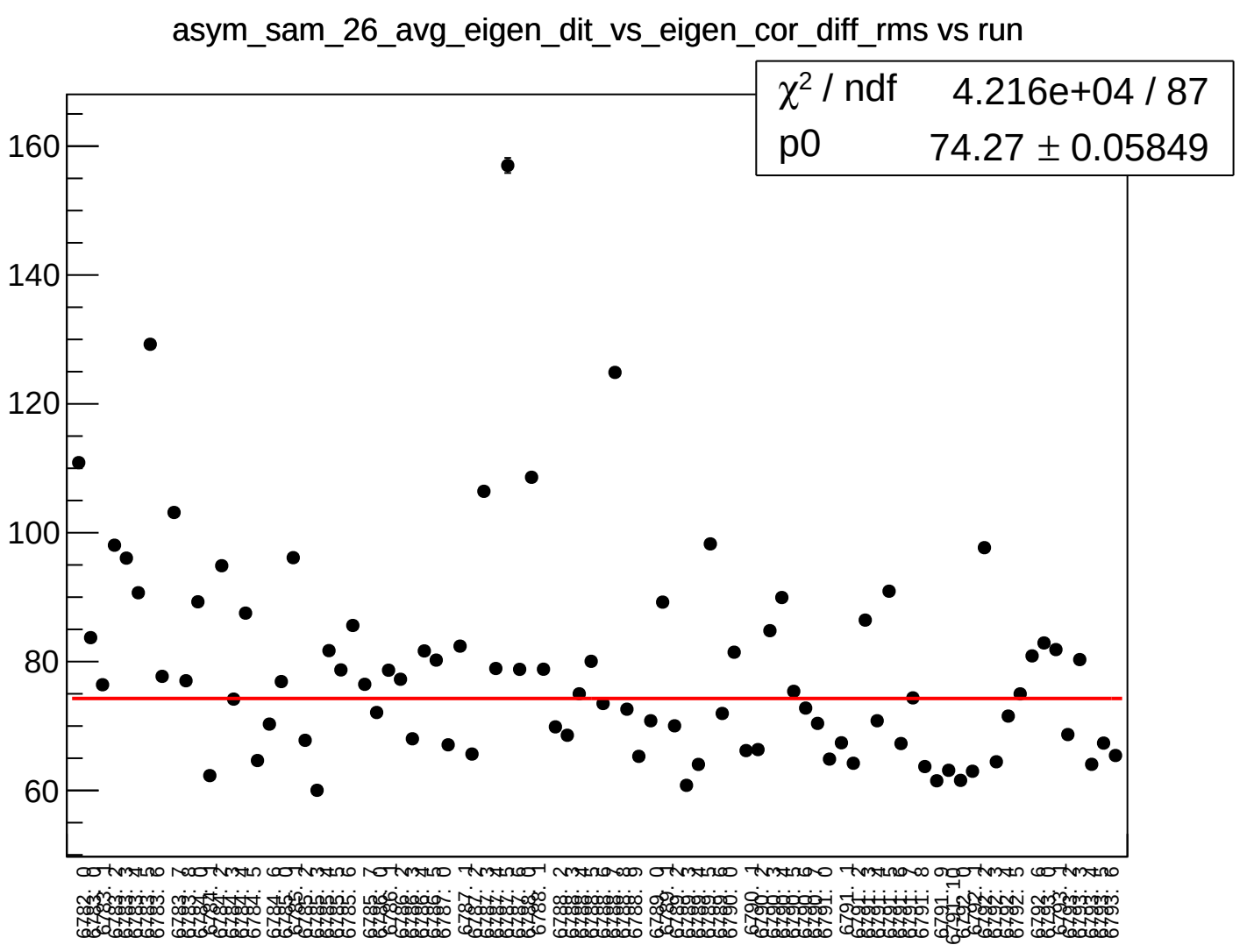

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 739.3 / 87
p0 0.002518 ± 1.958e−06
0.00265
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235

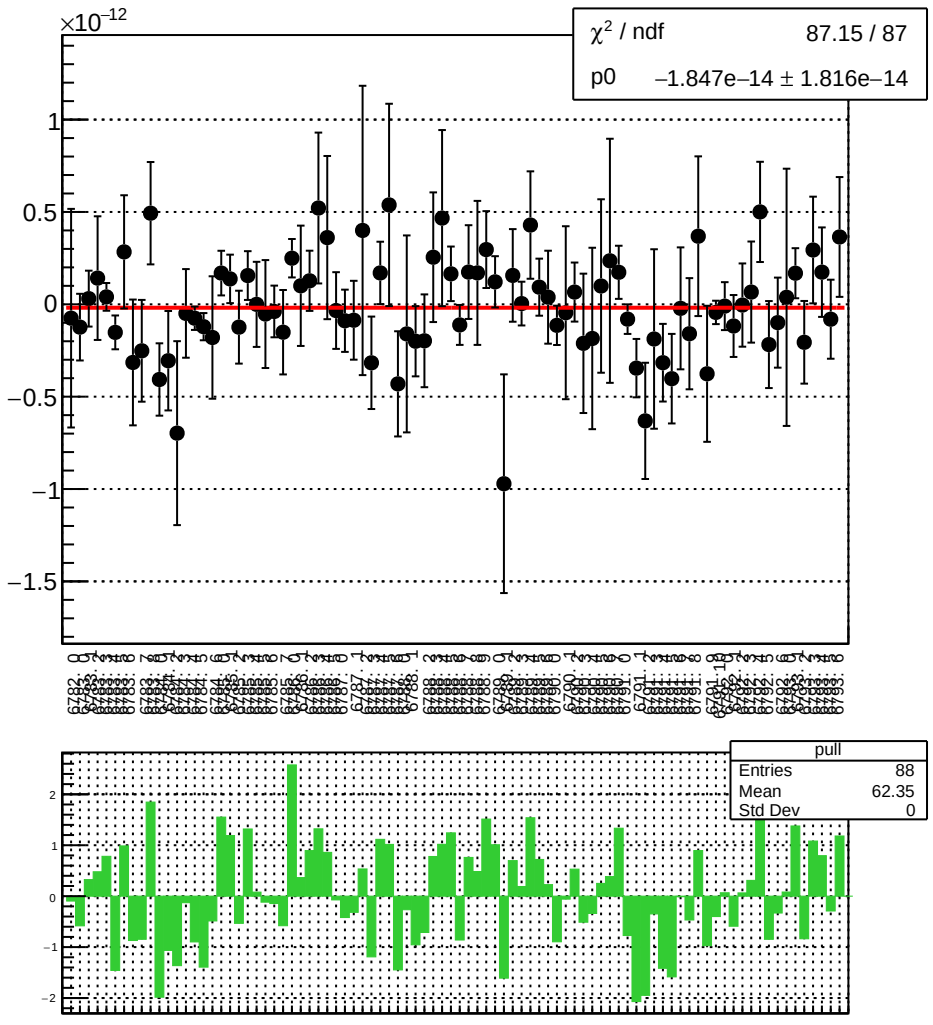

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.05 / 87
p0 0.2428 ± 0.08271
pull
Entries 88
Mean 45.49
Std Dev 54.73
pull1D
Entries 88
Mean 0.02816
Std Dev 0.9534

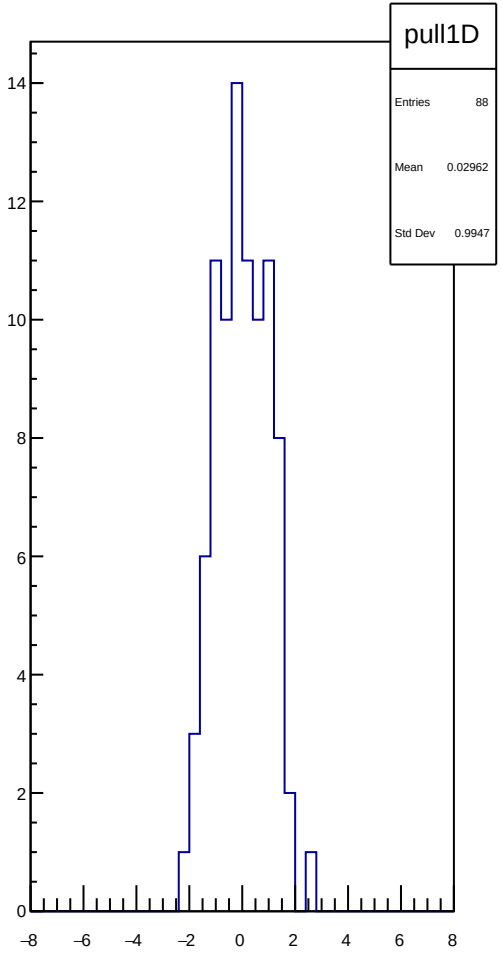

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.216e+04 / 87
p0 74.27 ± 0.05849
160
140
120
100
80
60

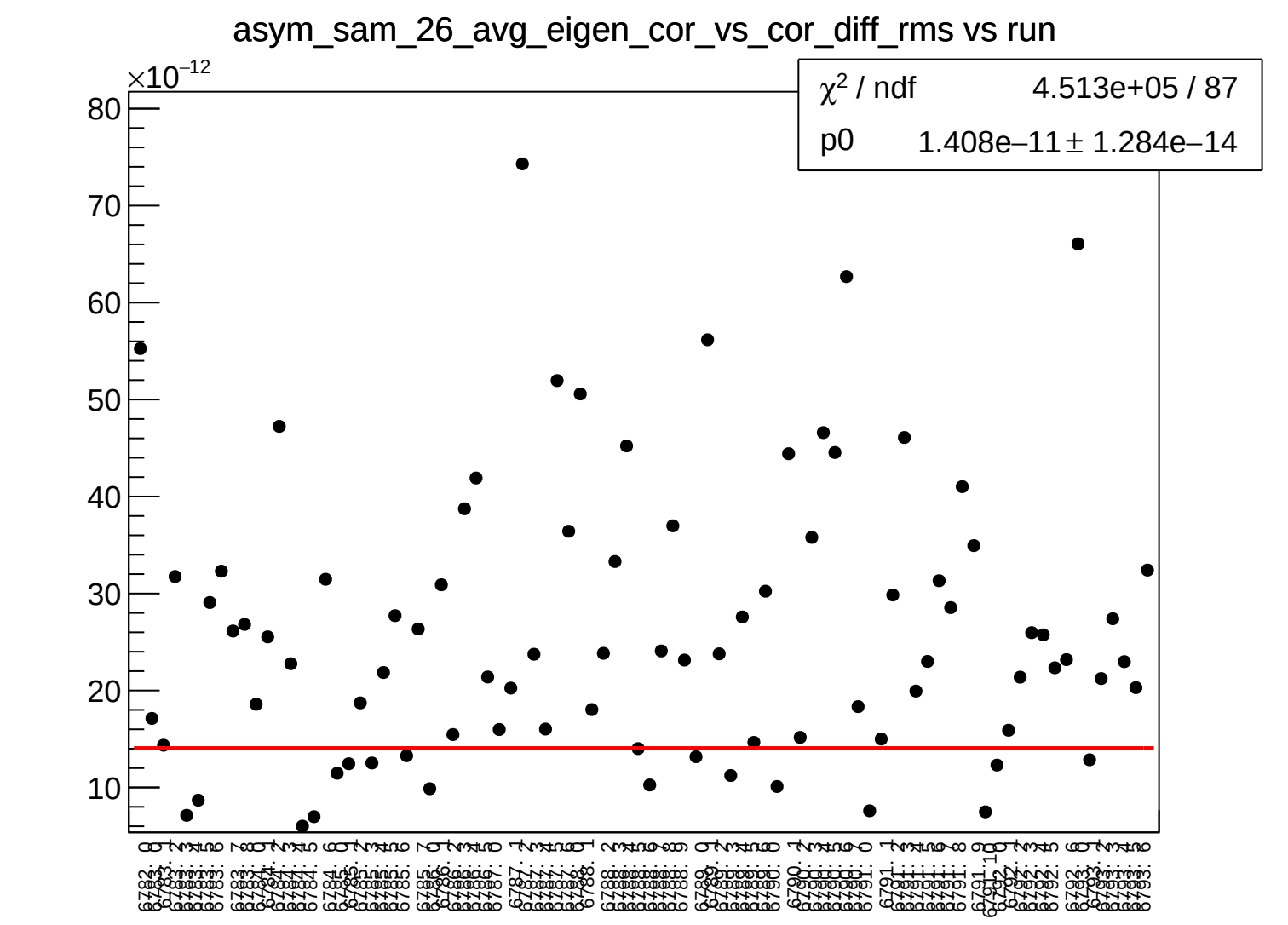

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.05 / 87
p0 0.2428 ± 0.08271
pull
Entries 88
Mean 45.49
Std Dev 54.73

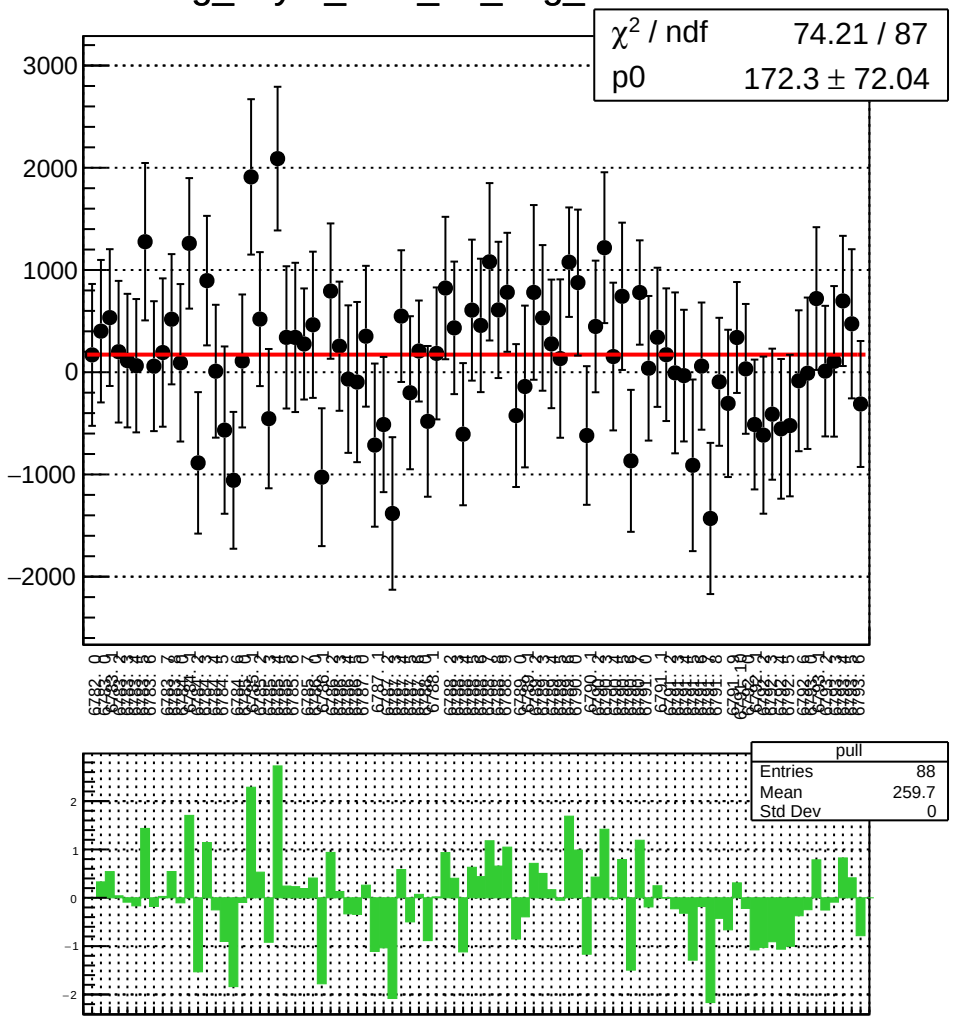

pull1D
Entries 88
Mean 0.02816
Std Dev 0.9534

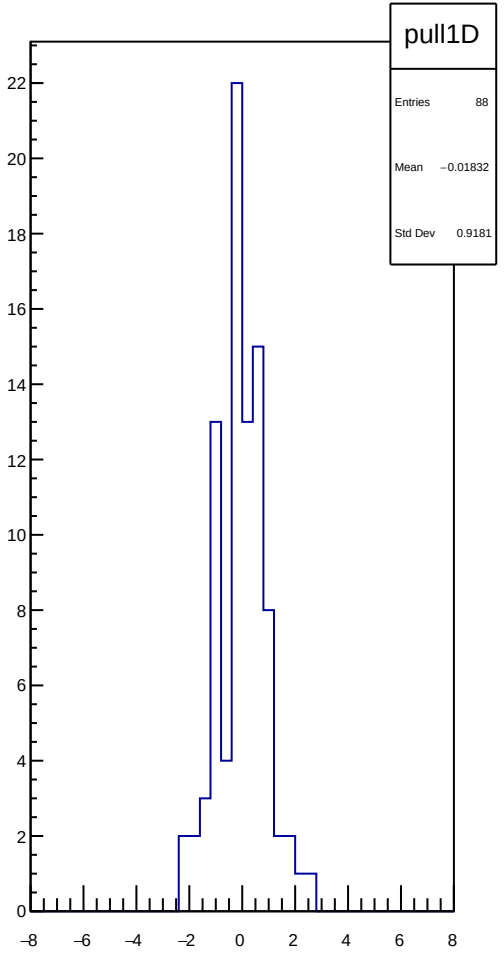

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.216e+04 / 87
p0 74.27 ± 0.05849
160
140
120
100
80
60

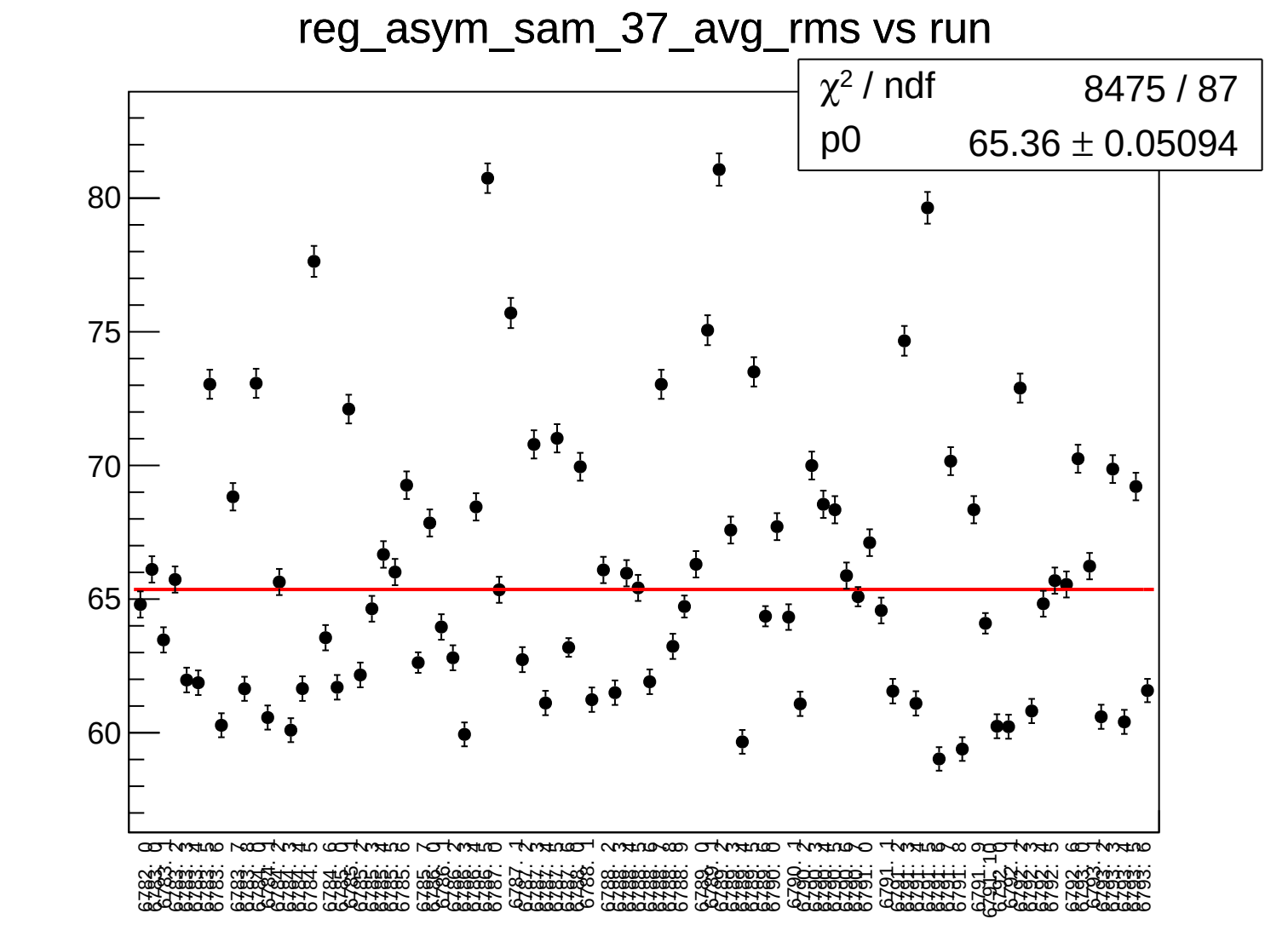

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.15 / 87
p0 −1.847e−14 ± 1.816e−14
pull
Entries 88
Mean 62.35
Std Dev 0

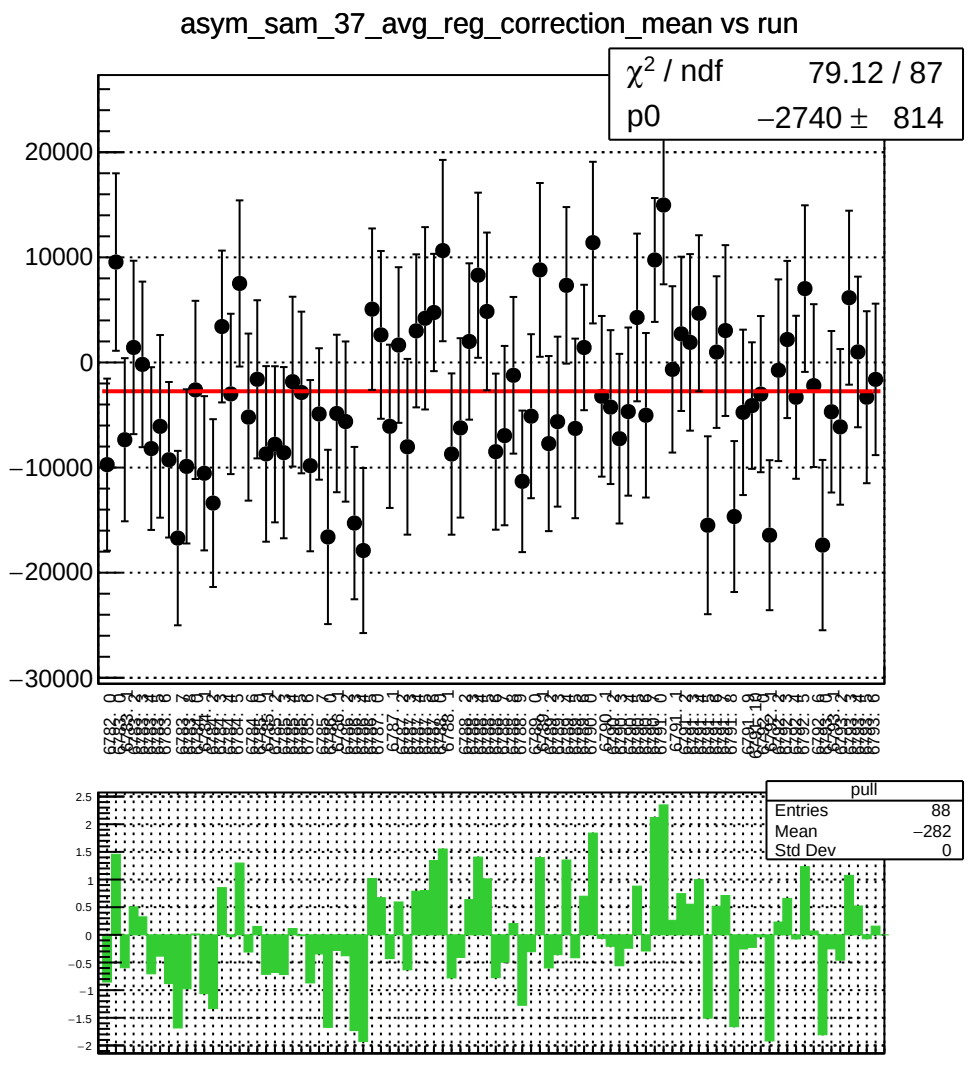

pull1D
Entries 88
Mean 0.02962
Std Dev 0.9947

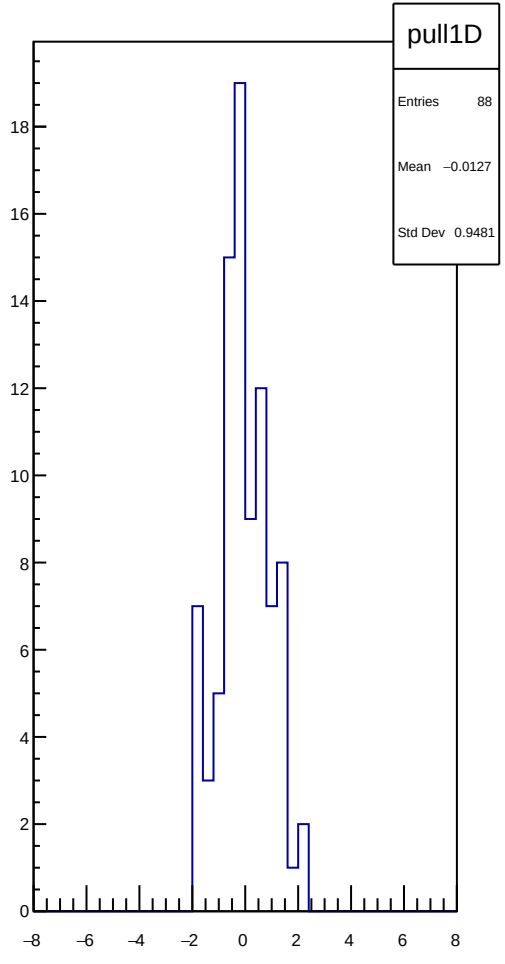

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.513e+05 / 87
p0 1.408e−11 ± 1.284e−14
80
70
60
50
40
30
20
10

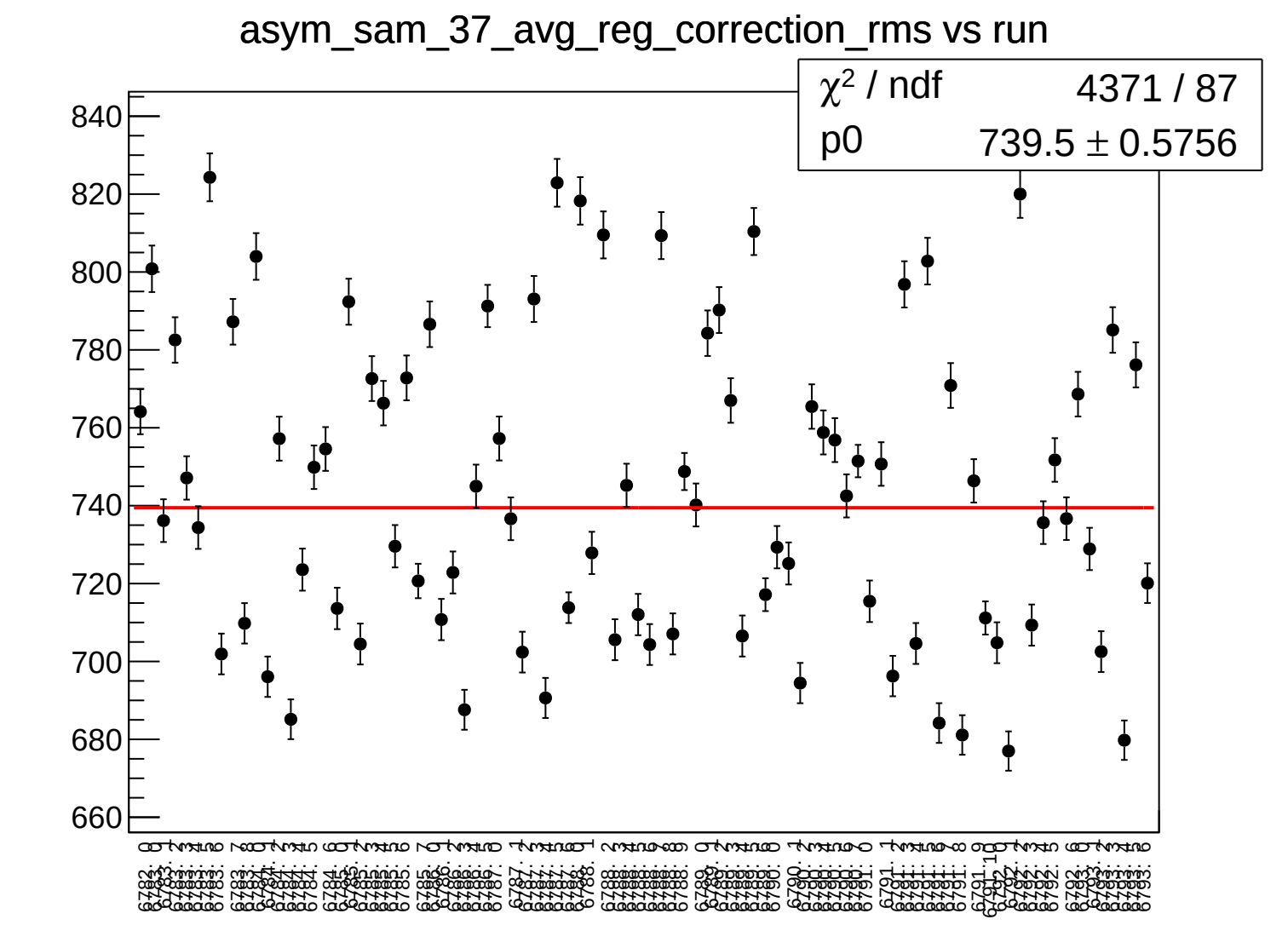

reg_asym_sam_37_avg_mean vs run
χ² / ndf 74.21 / 87
p0 172.3 ± 72.04
pull
Entries 88
Mean 259.7
Std Dev 0

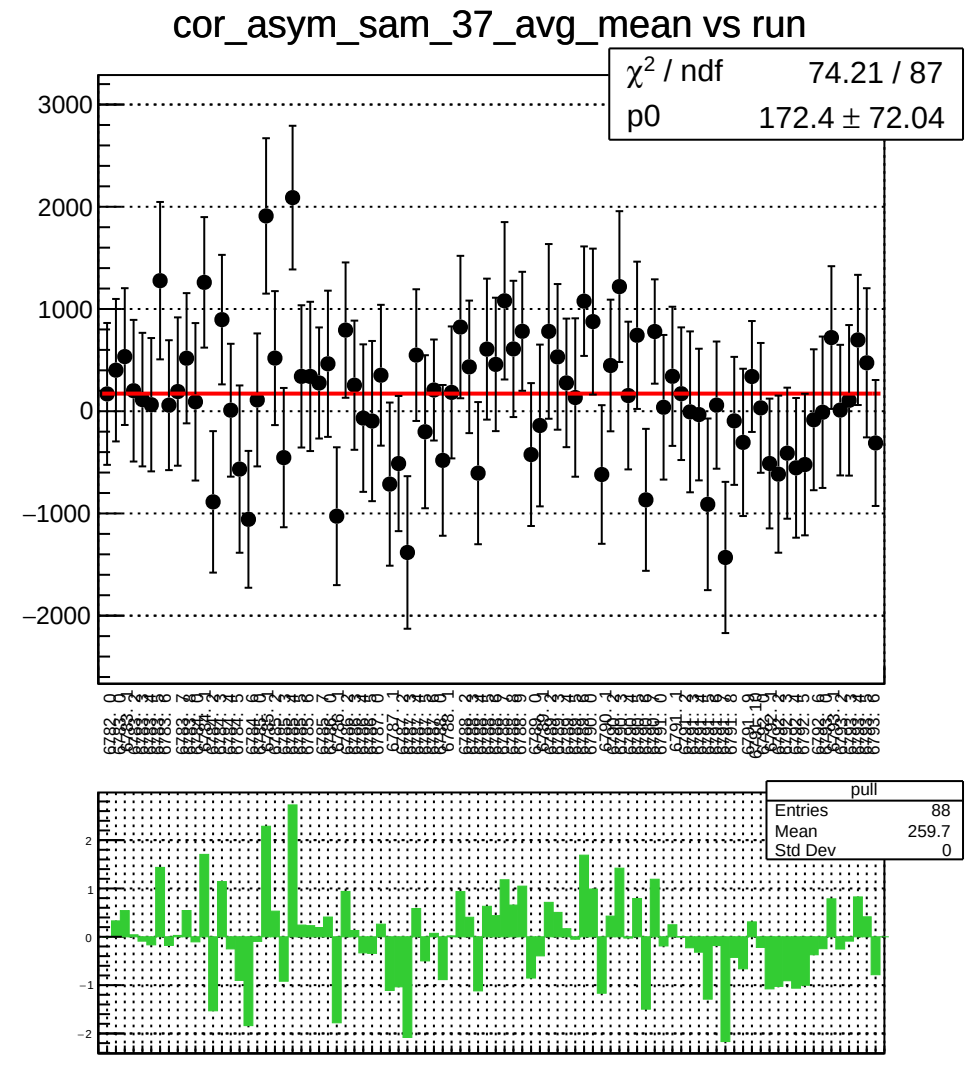

pull1D
Entries 88
Mean −0.01832
Std Dev 0.9181

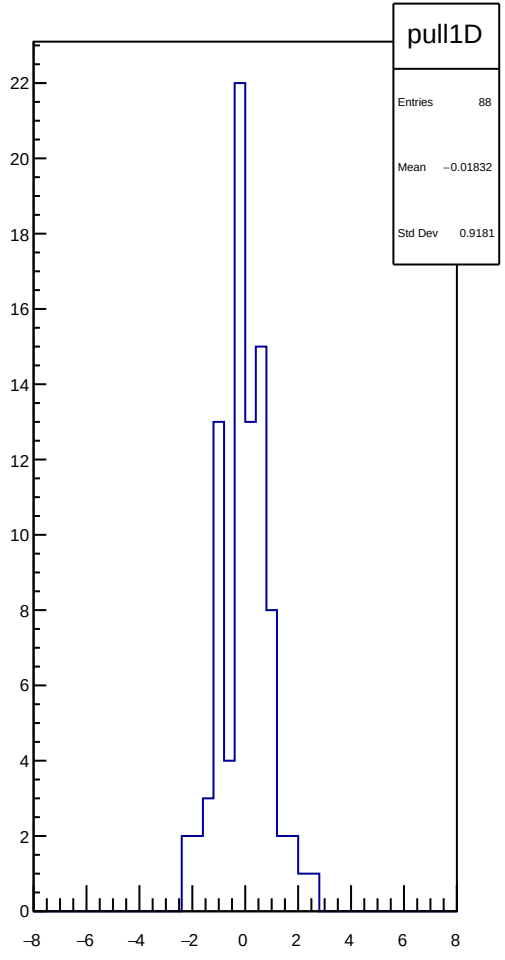

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 8475 / 87
p0 65.36 ± 0.05094
80
75
70
65
60

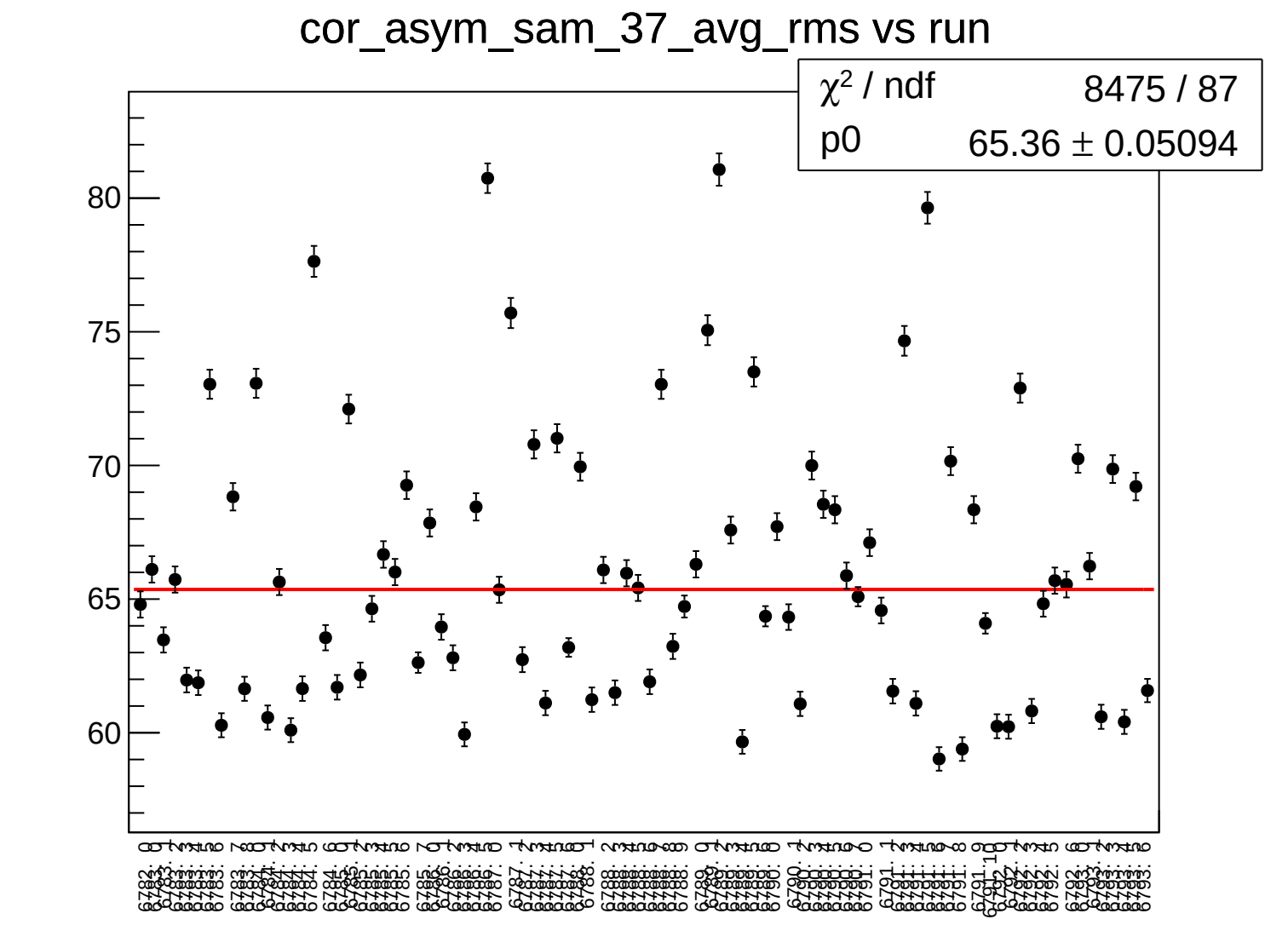

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 79.12 / 87
p0 −2740 ± 814
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −282
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

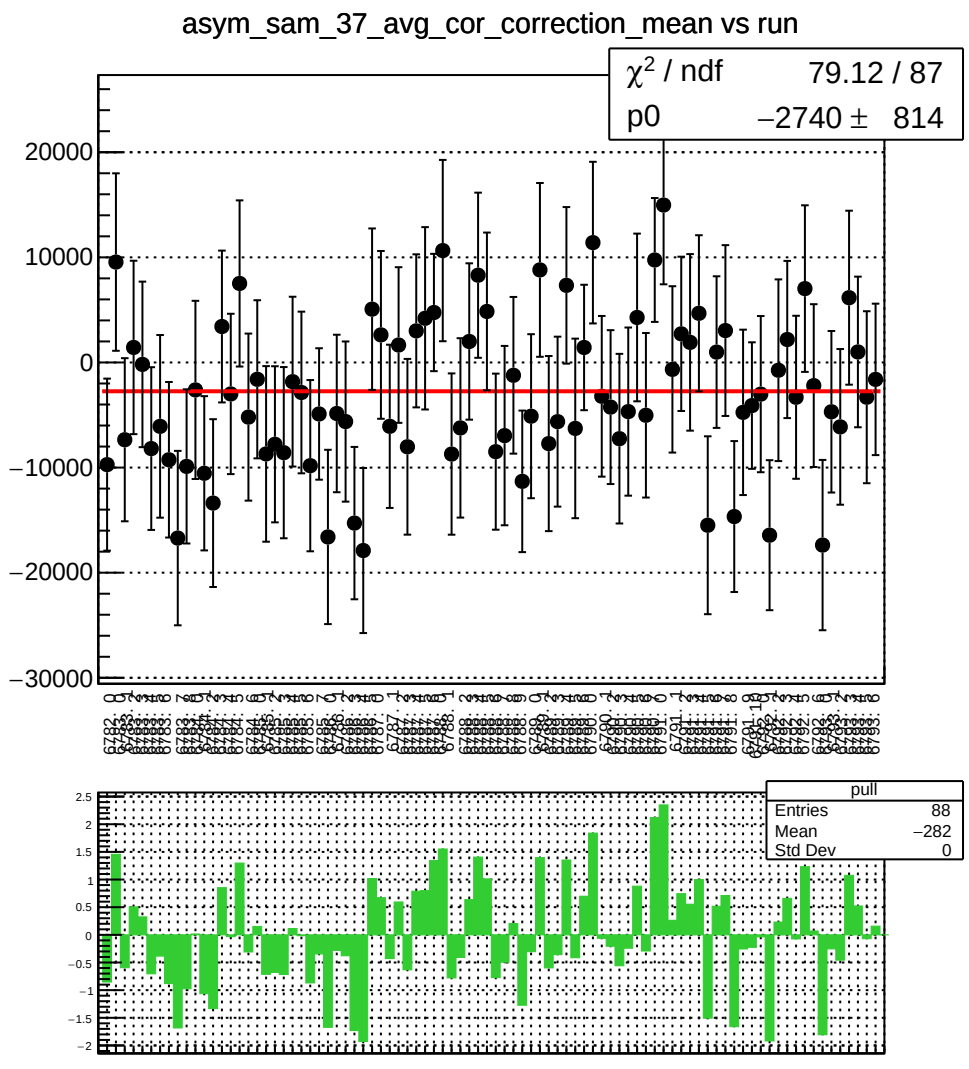

pull1D
Entries 88
Mean −0.0127
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

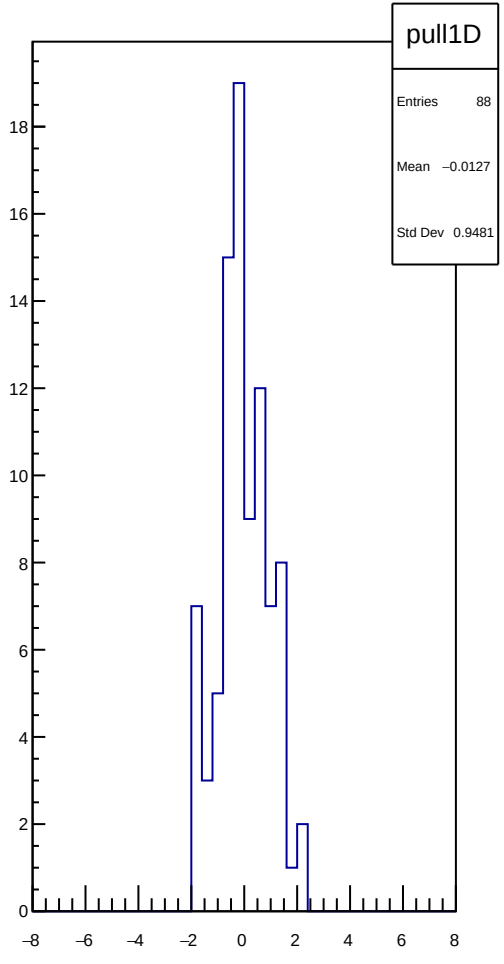

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 4371 / 87
p0 739.5 ± 0.5756
840
820
800
780
760
740
720
700
680
660

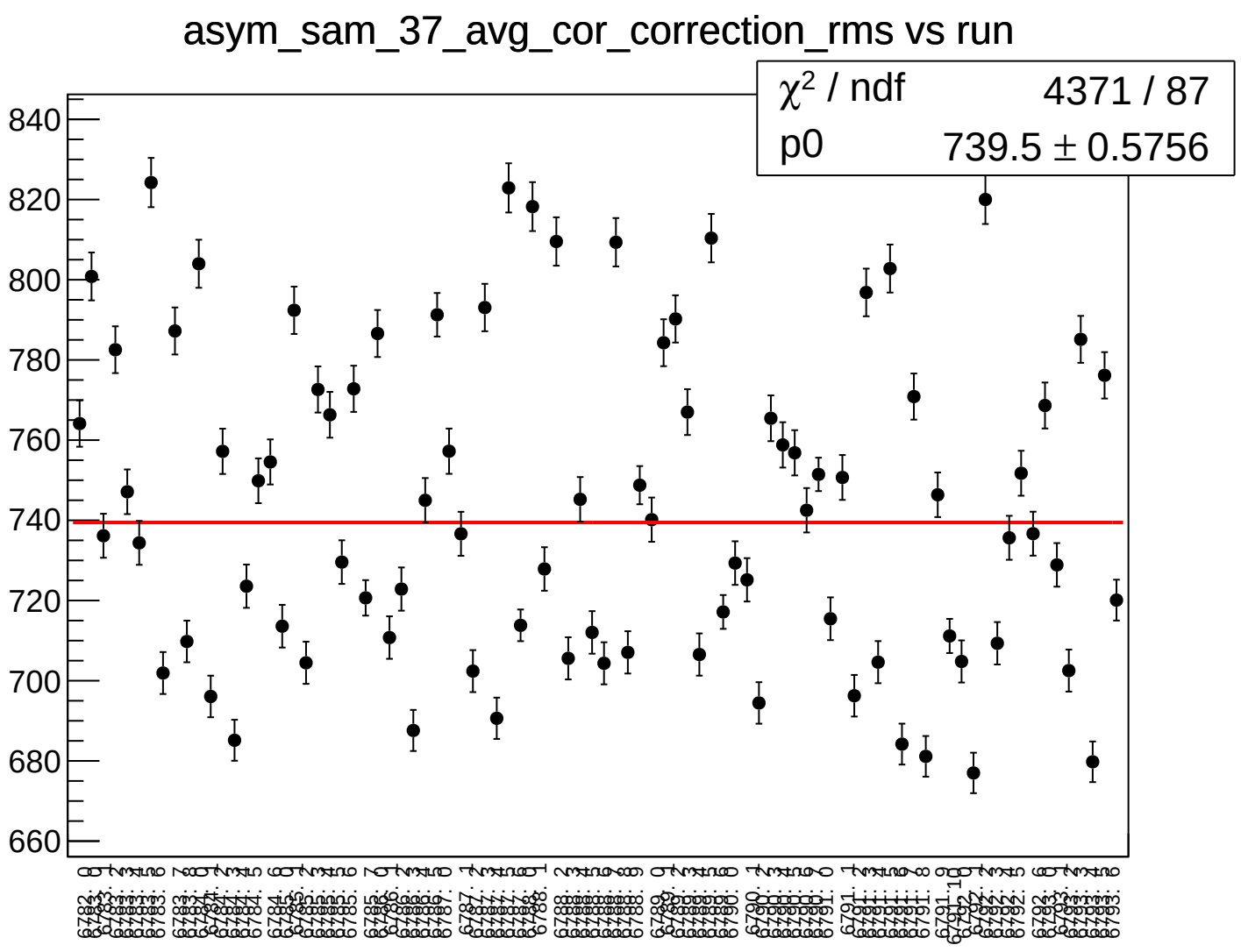

cor_asym_sam_37_avg_mean vs run
χ² / ndf 74.21 / 87
p0 172.4 ± 72.04
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 259.7
Std Dev 0
2
1
0
−1
−2

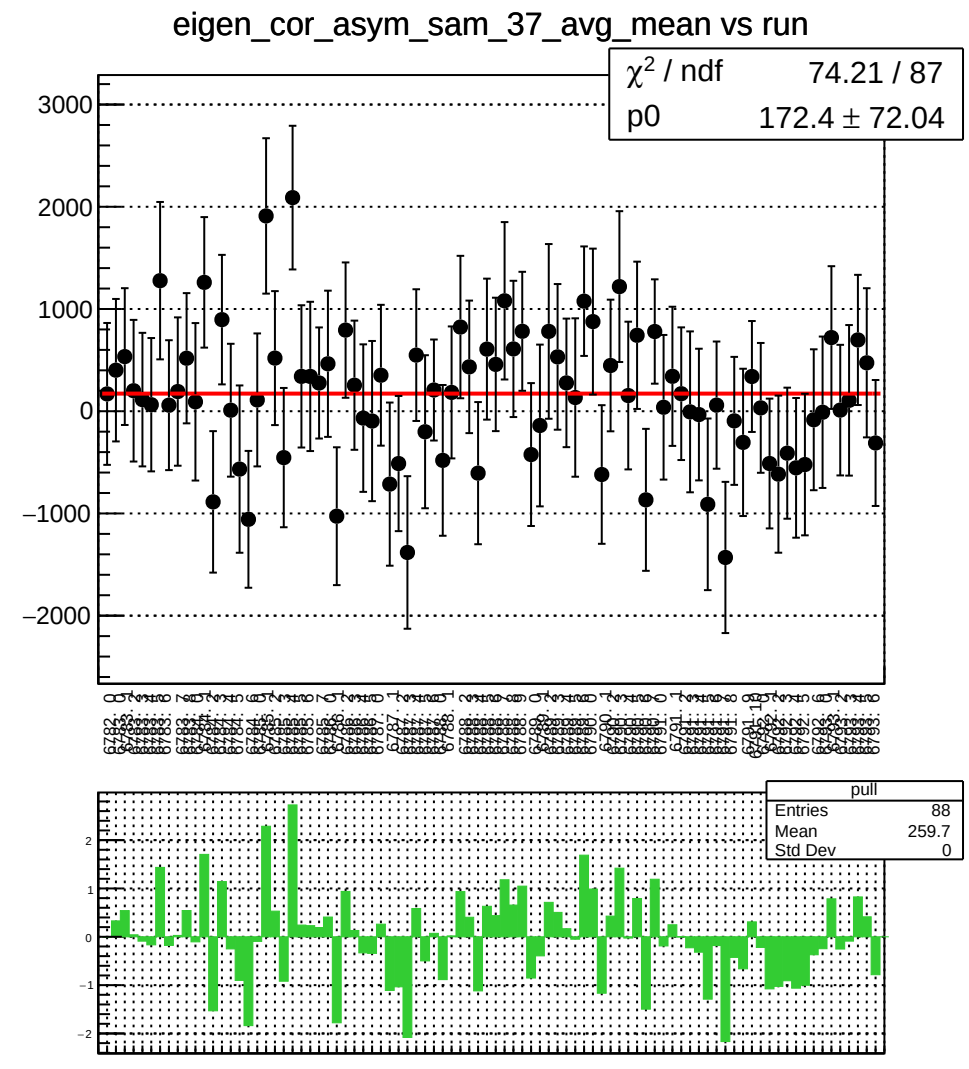

pull1D
Entries 88
Mean −0.01832
Std Dev 0.9181
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

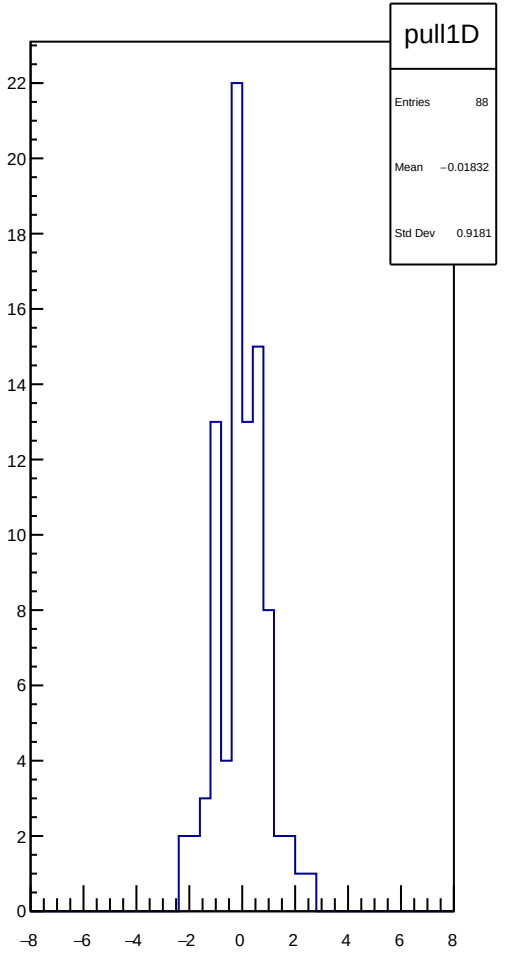

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 8475 / 87
p0 65.36 ± 0.05094
80
75
70
65
60

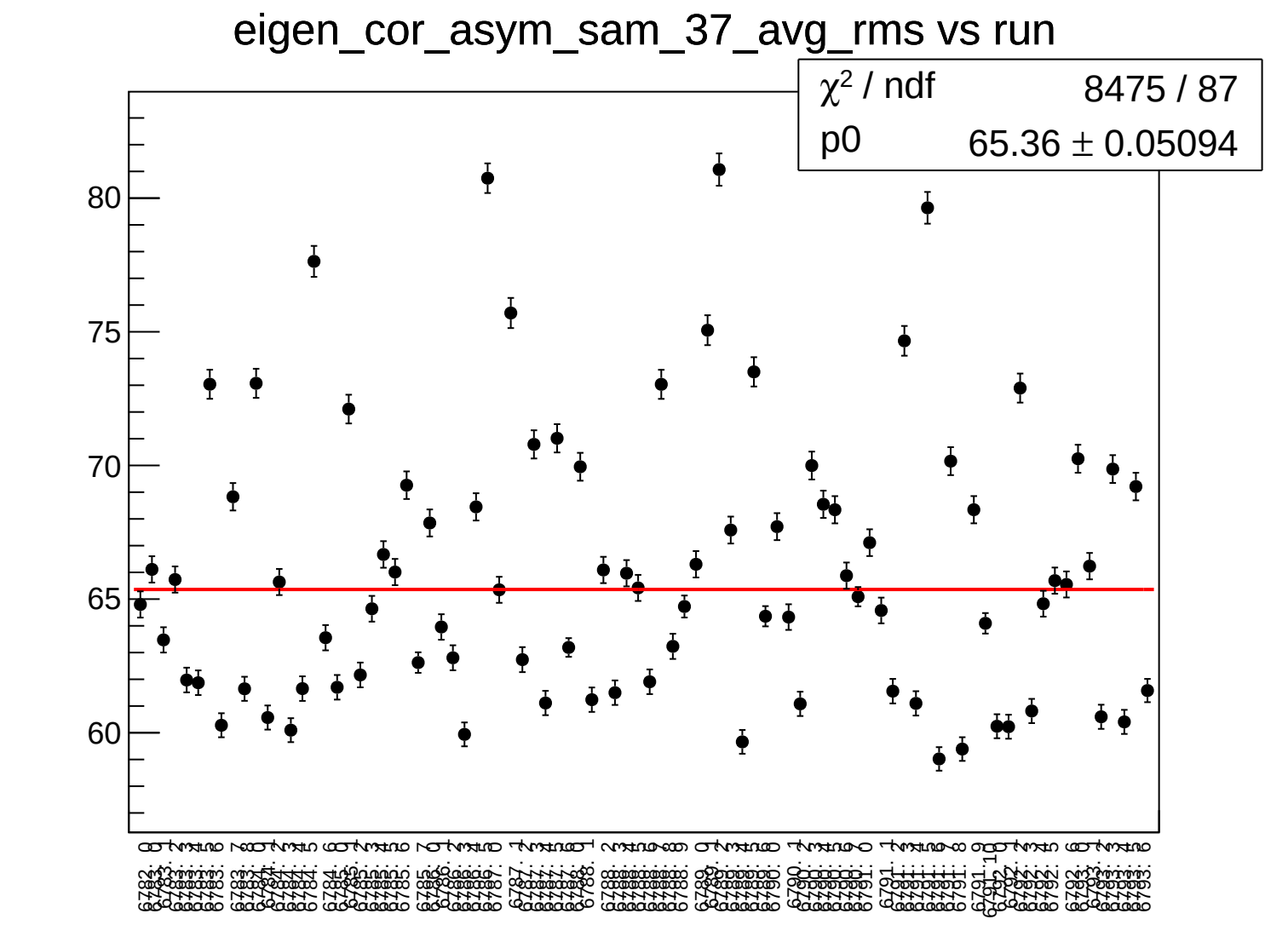

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 79.12 / 87
p0 −2740 ± 814
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −282
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

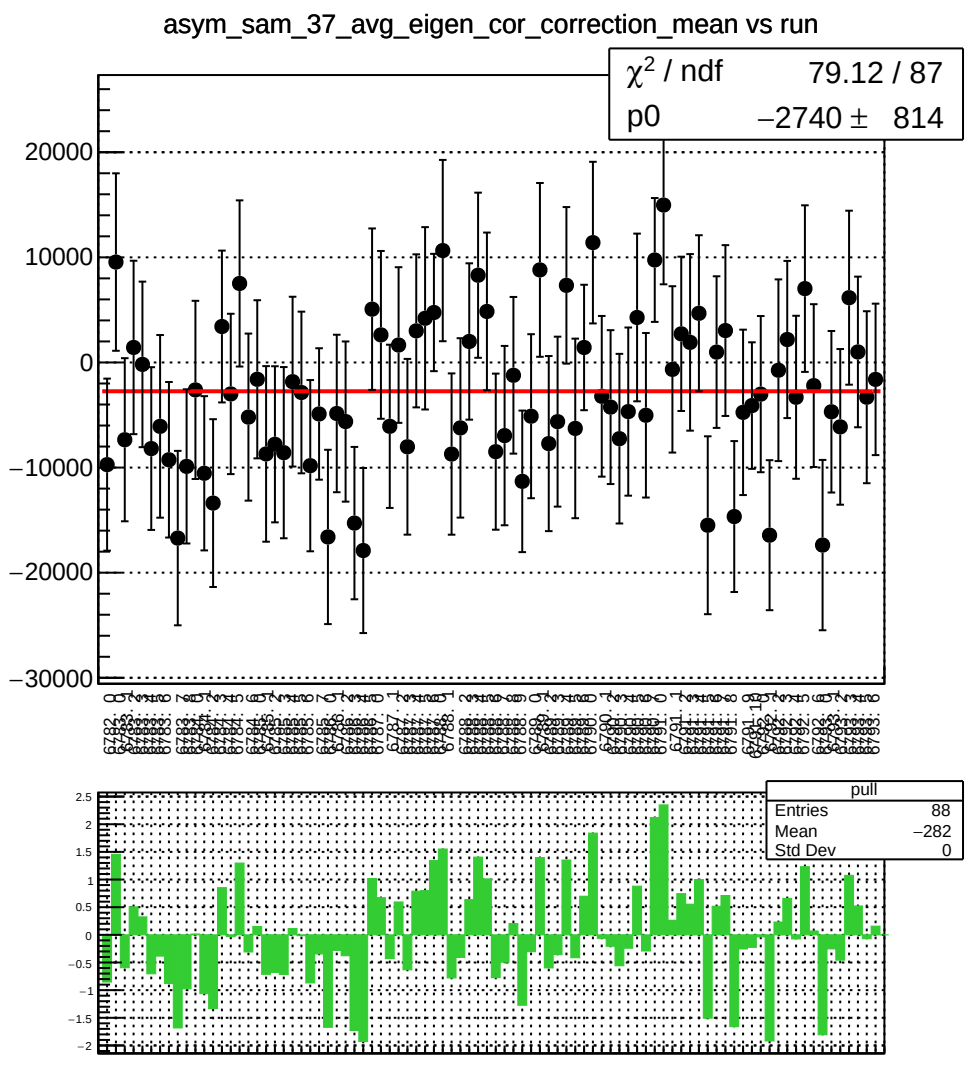

pull1D
Entries 88
Mean −0.0127
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

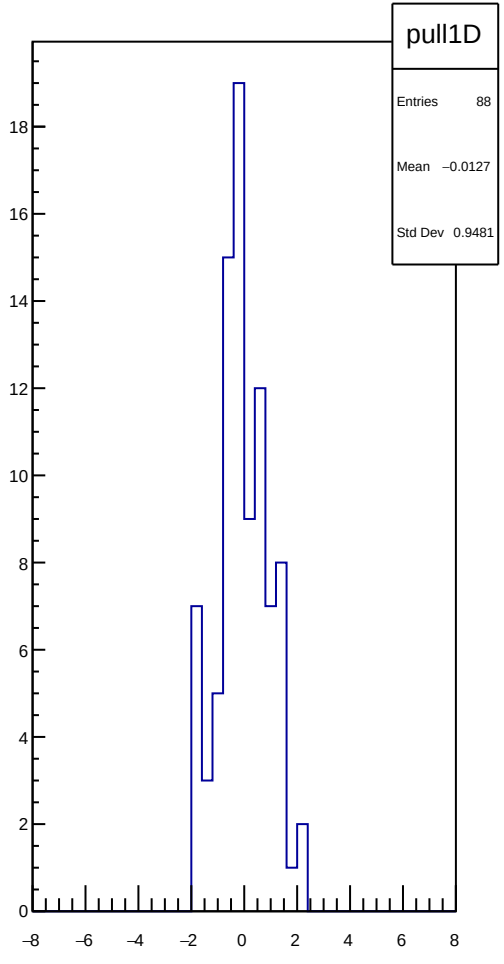

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 4371 / 87
p0 739.5 ± 0.5756
840
820
800
780
760
740
720
700
680
660

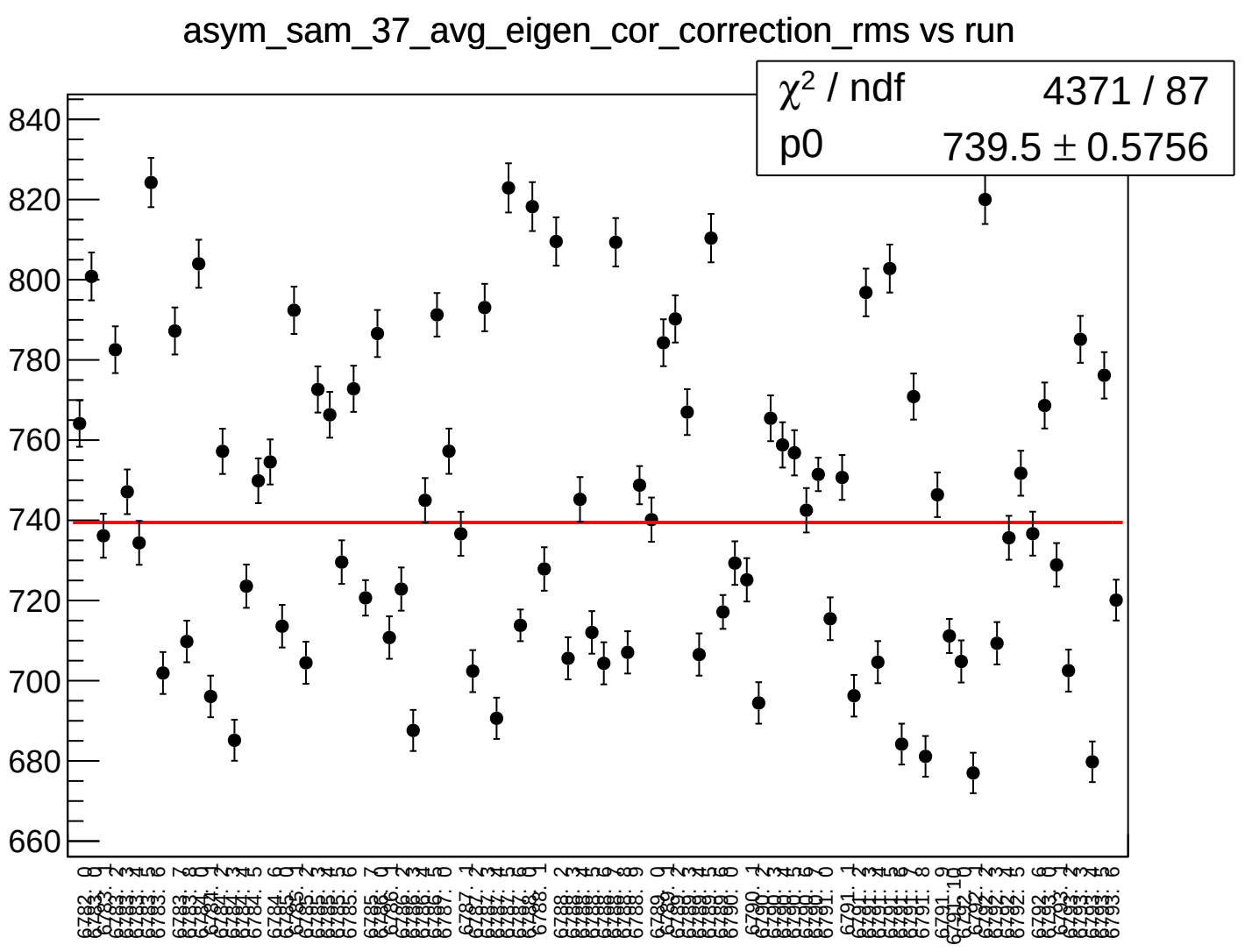

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 74.21 / 87
p0 172.4 ± 72.04
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 259.7
Std Dev 0
2
1
0
−1
−2

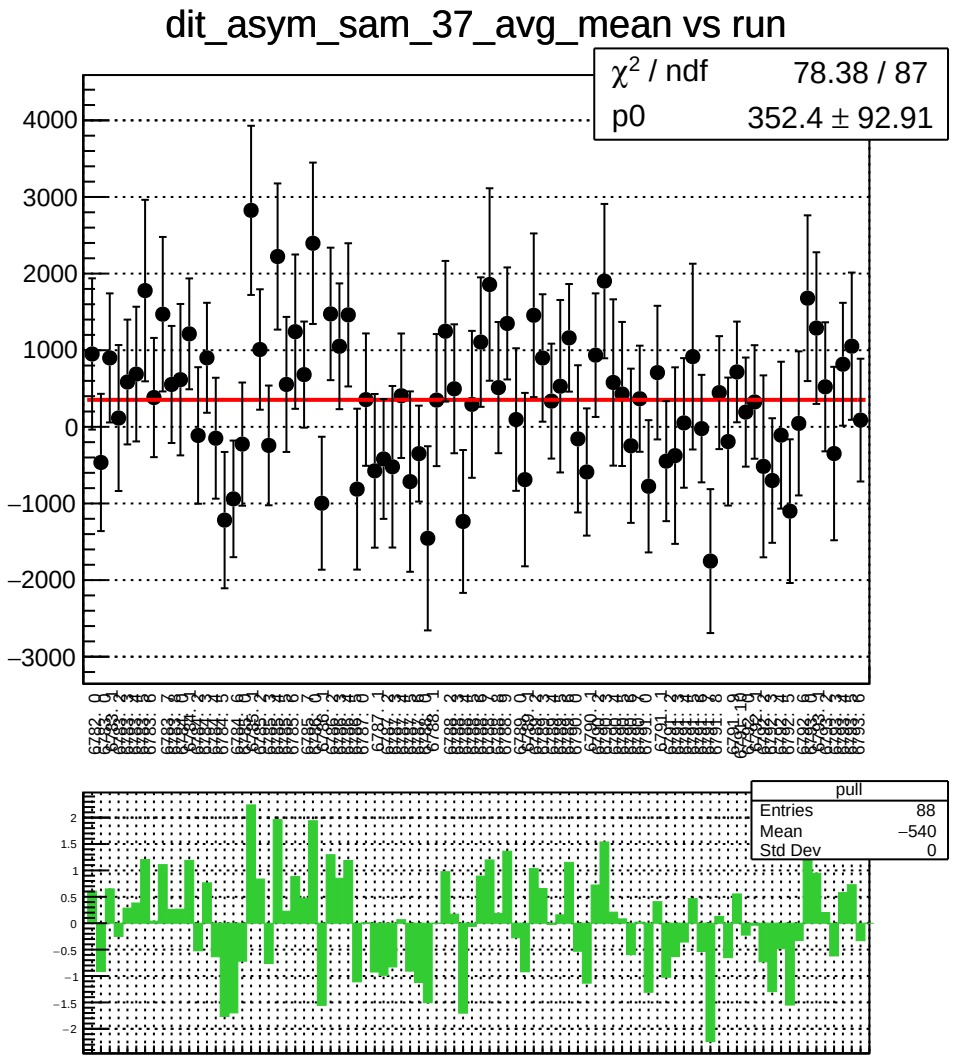

pull1D
Entries 88
Mean −0.01832
Std Dev 0.9181
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

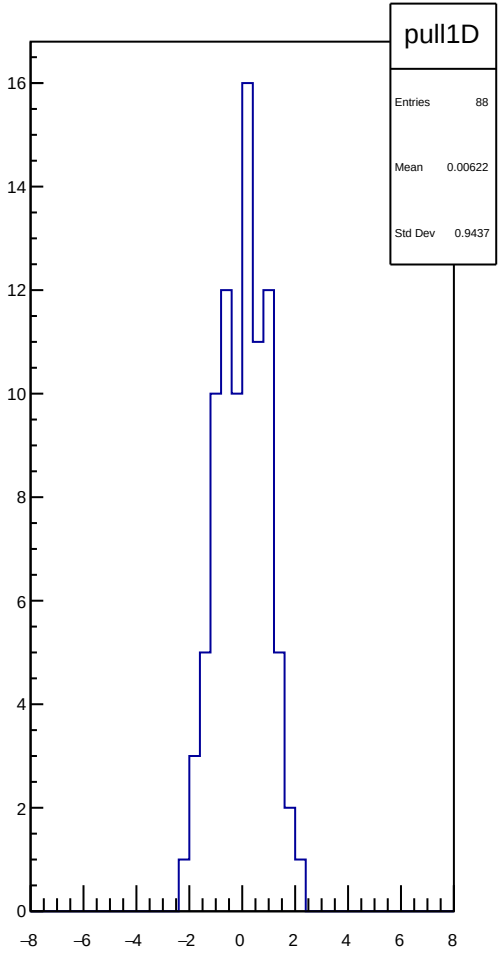

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 8475 / 87
p0 65.36 ± 0.05094
80
75
70
65
60

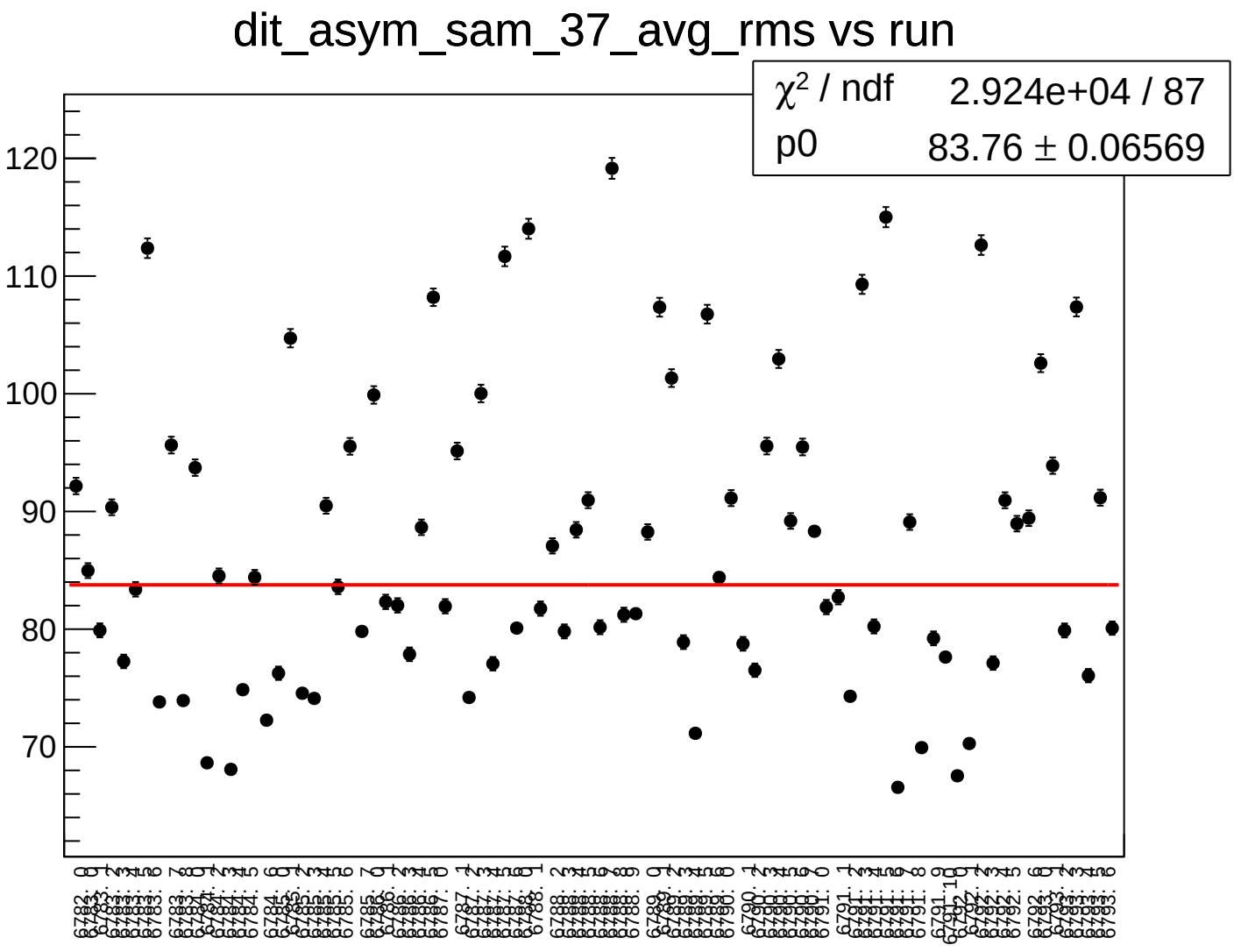

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.12 / 87
p0 −2740 ± 814
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −282
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

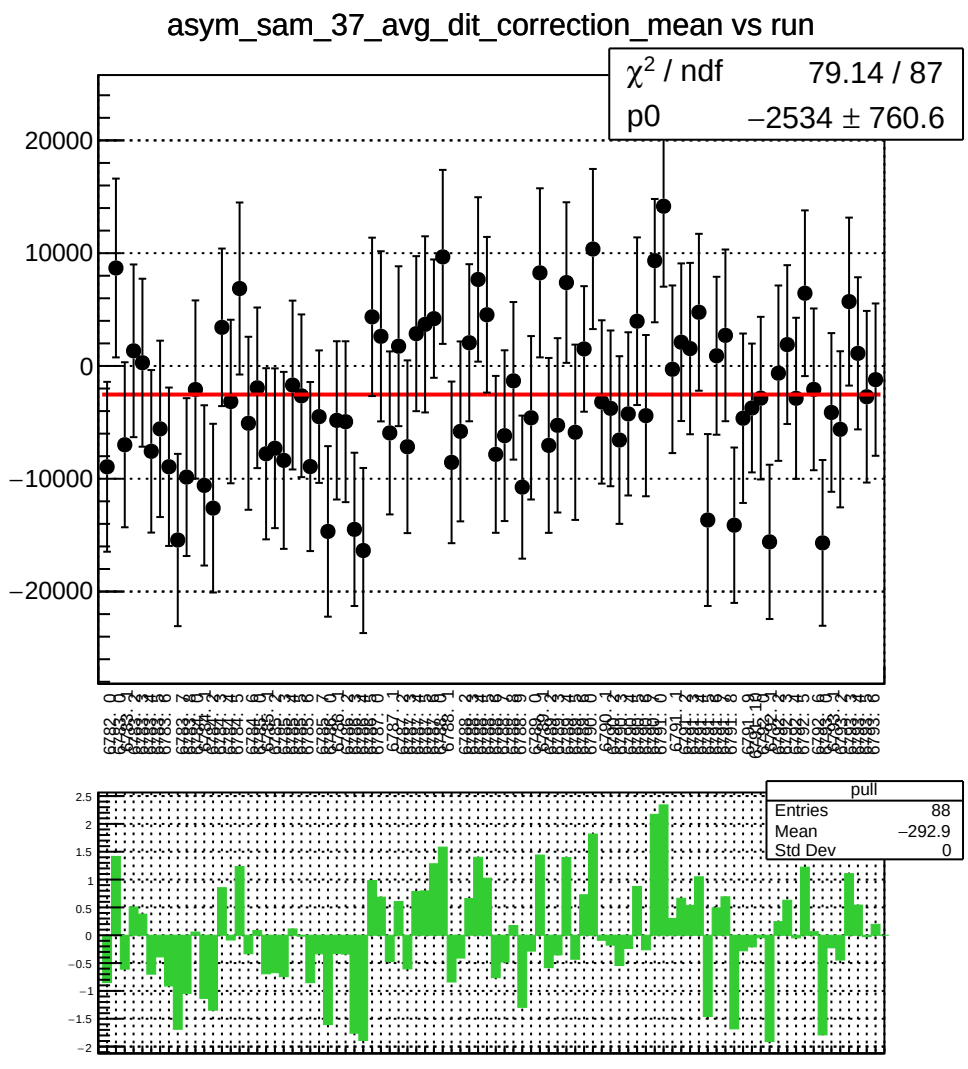

pull1D
Entries 88
Mean −0.0127
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

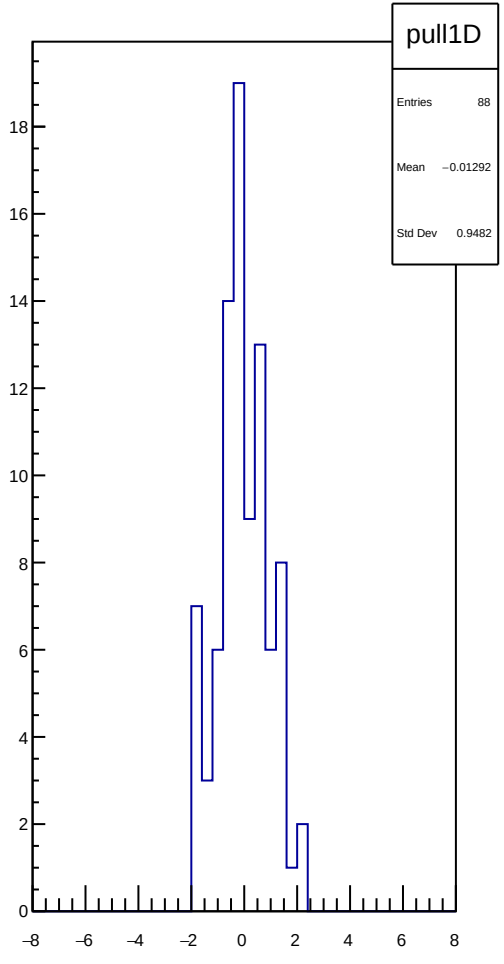

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 4371 / 87
p0 739.5 ± 0.5756
840
820
800
780
760
740
720
700
680
660

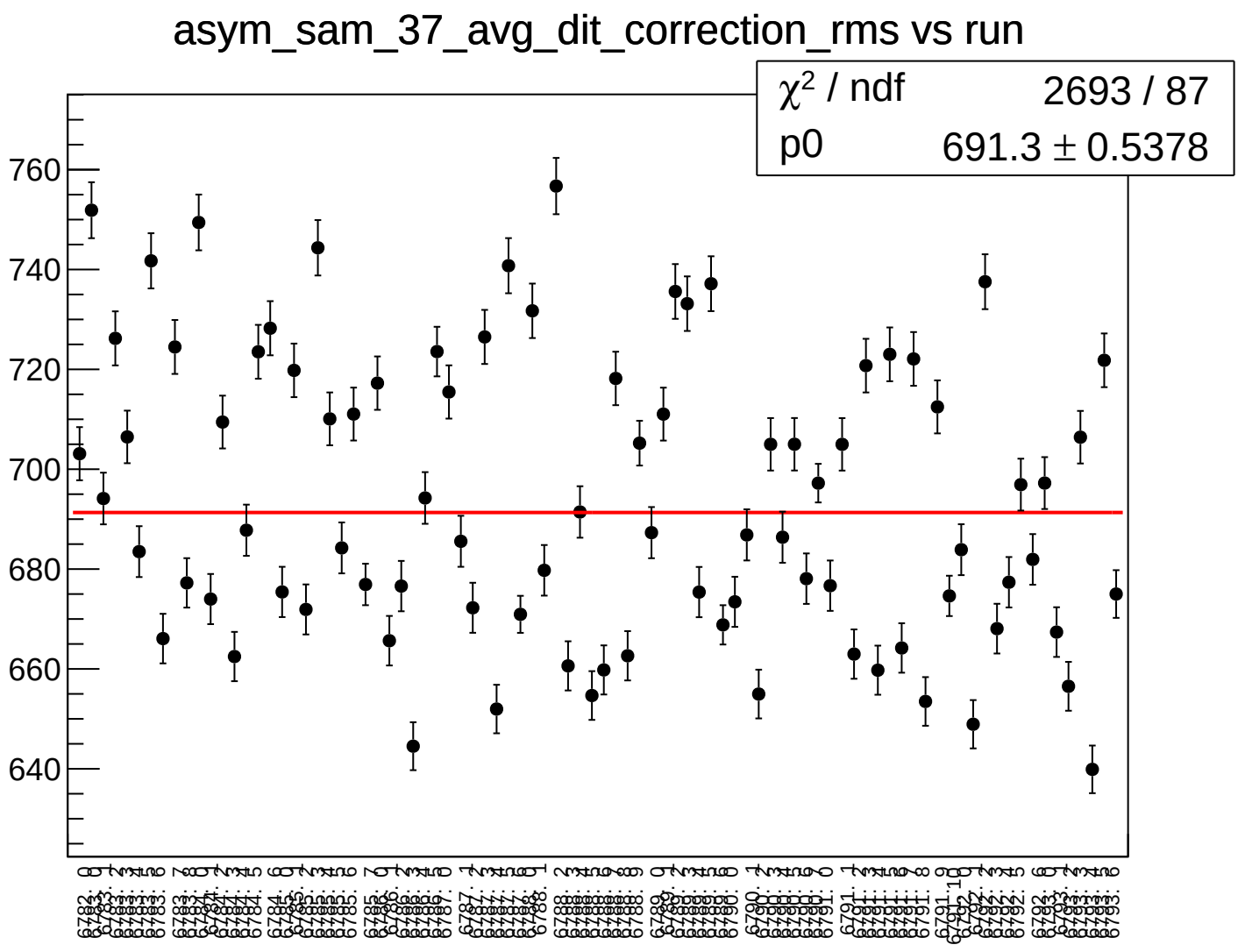

dit_asym_sam_37_avg_mean vs run
χ² / ndf 78.38 / 87
p0 352.4 ± 92.91
pull
Entries 88
Mean −540
Std Dev 0

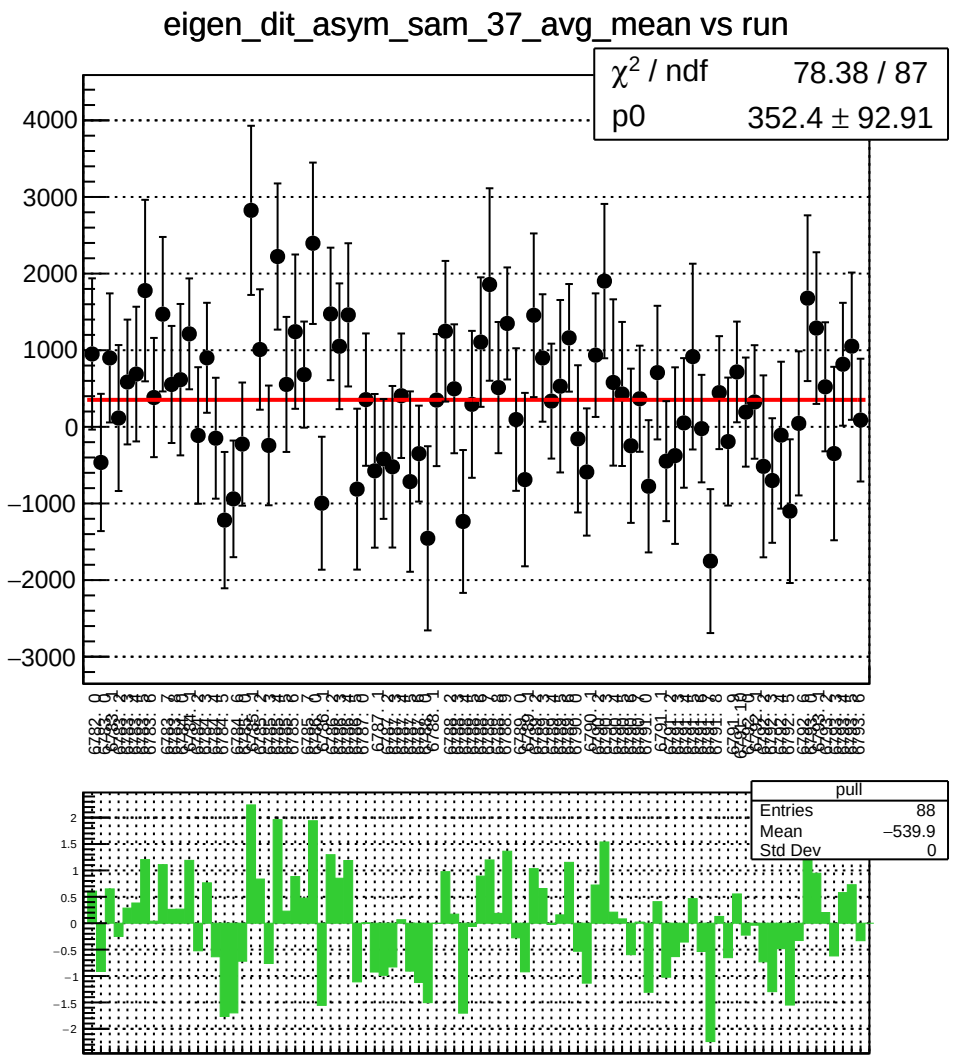

pull1D
Entries 88
Mean 0.00622
Std Dev 0.9437

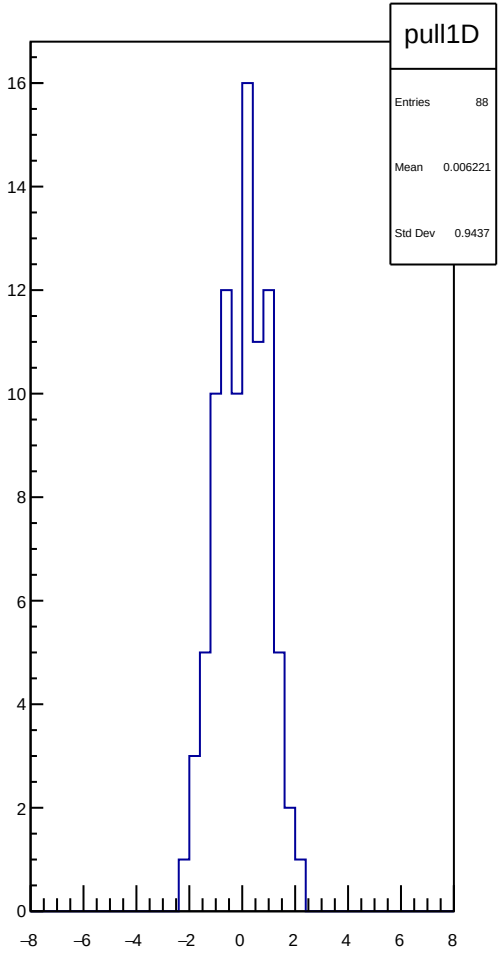

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.924e+04 / 87
p0 83.76 ± 0.06569
120
110
100
90
80
70

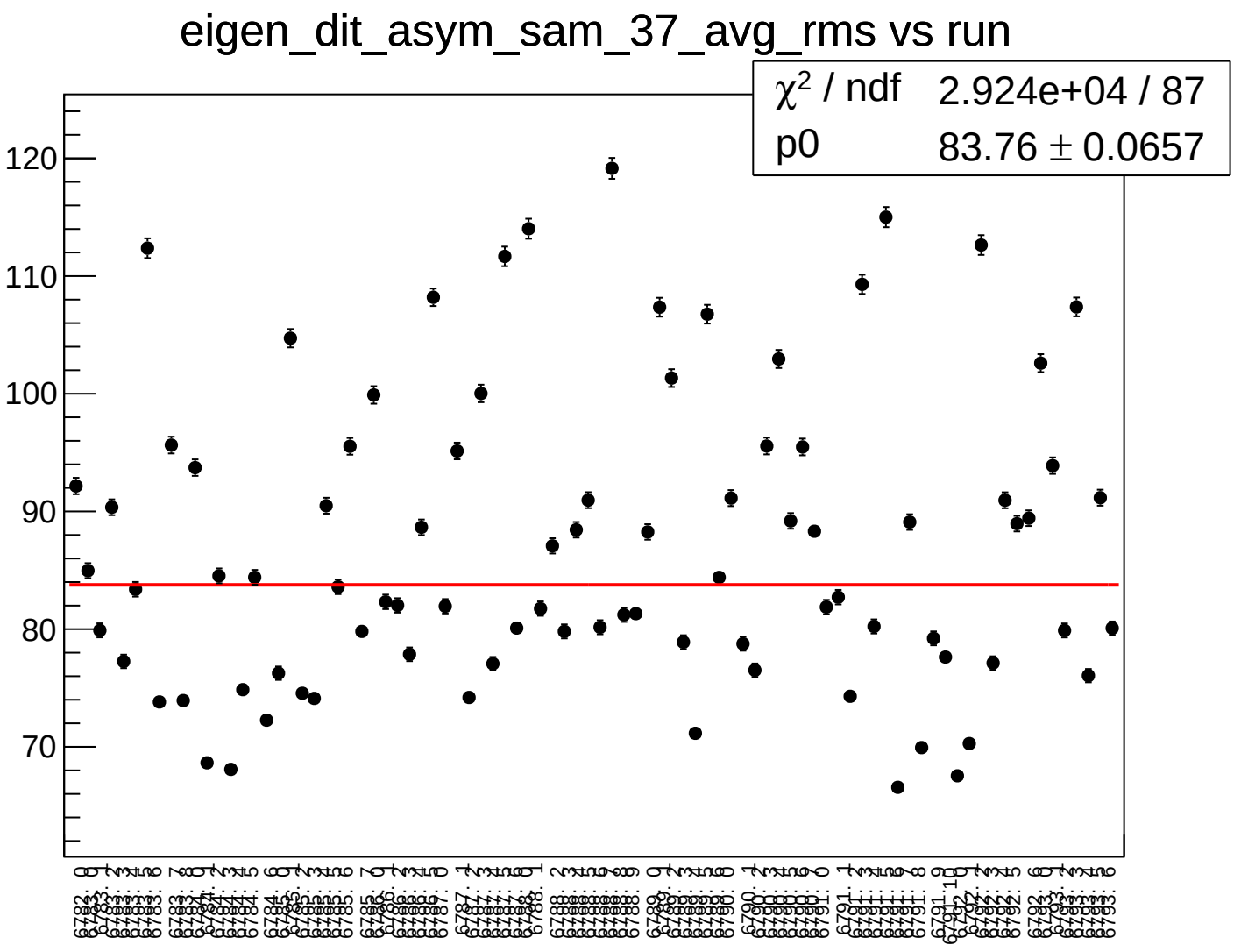

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 79.14 / 87
p0 −2534 ± 760.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −292.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

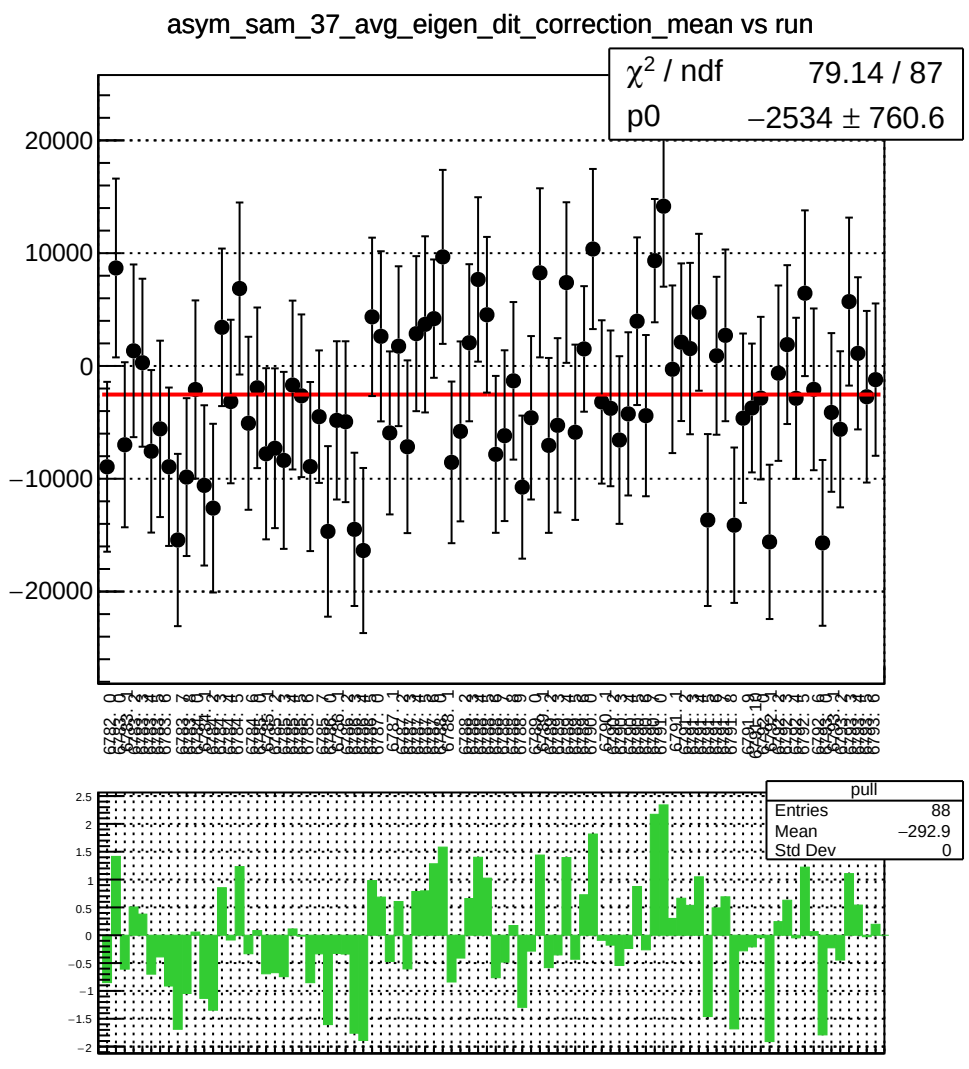

pull1D
Entries 88
Mean −0.01292
Std Dev 0.9482
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

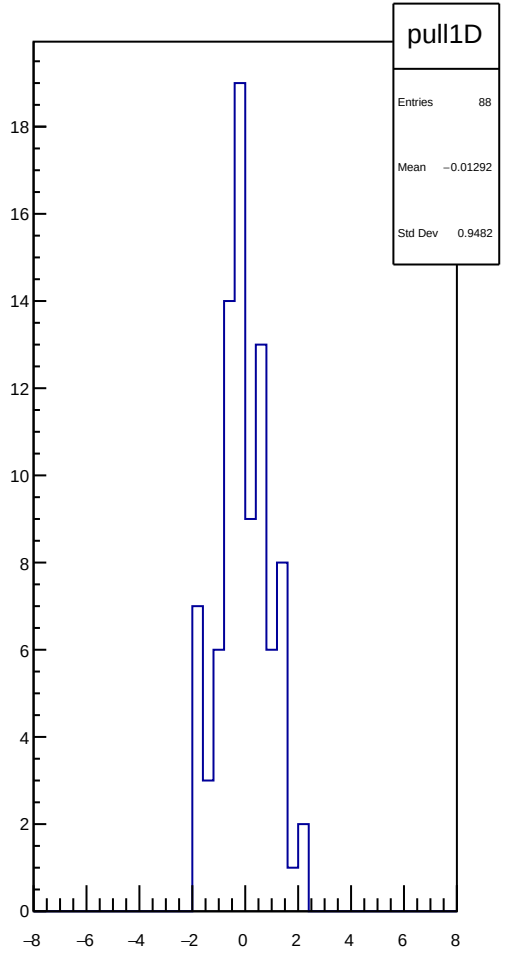

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2693 / 87
p0 691.3 ± 0.5378
760
740
720
700
680
660
640

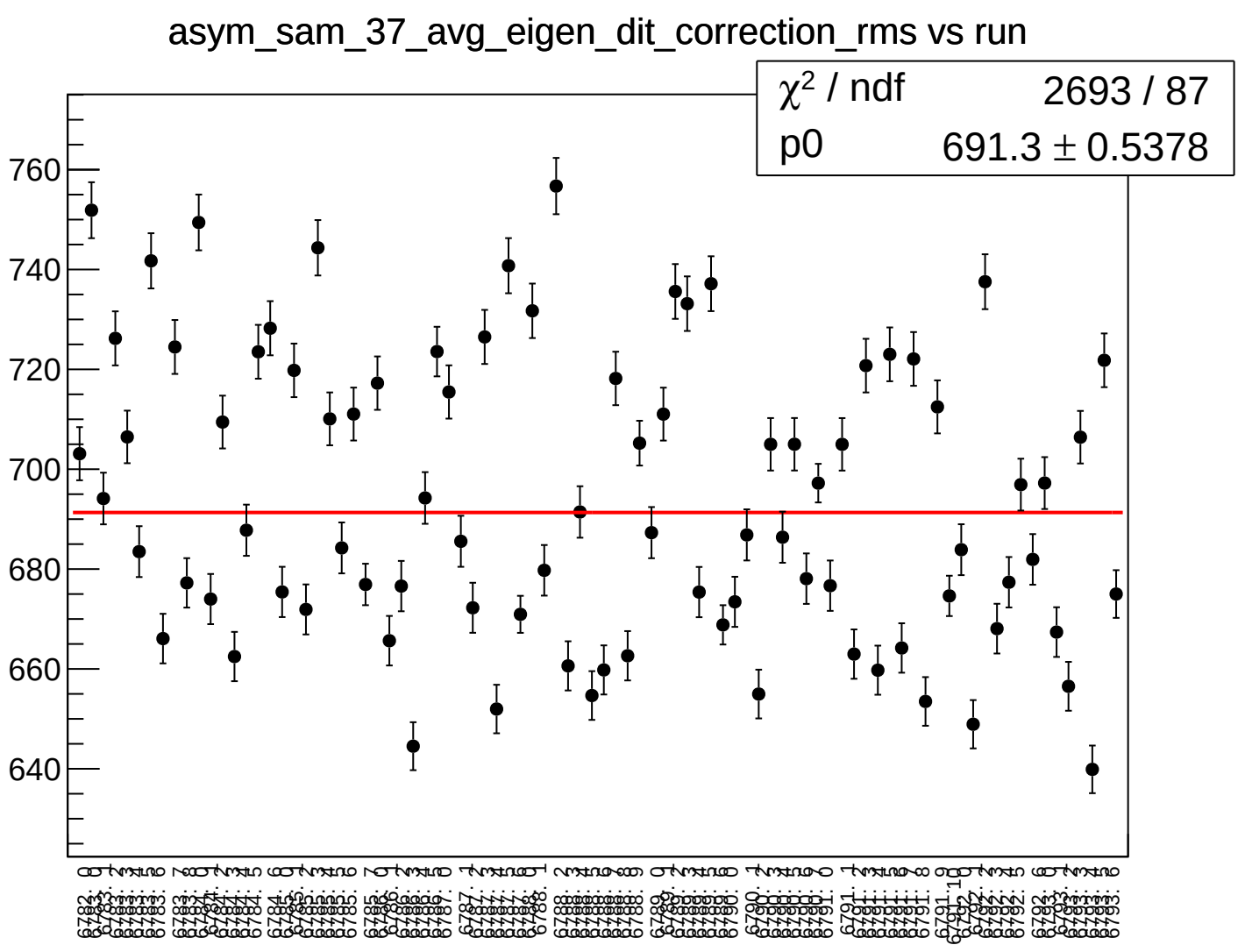

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 78.38 / 87
p0 352.4 ± 92.91
pull
Entries 88
Mean −539.9
Std Dev 0

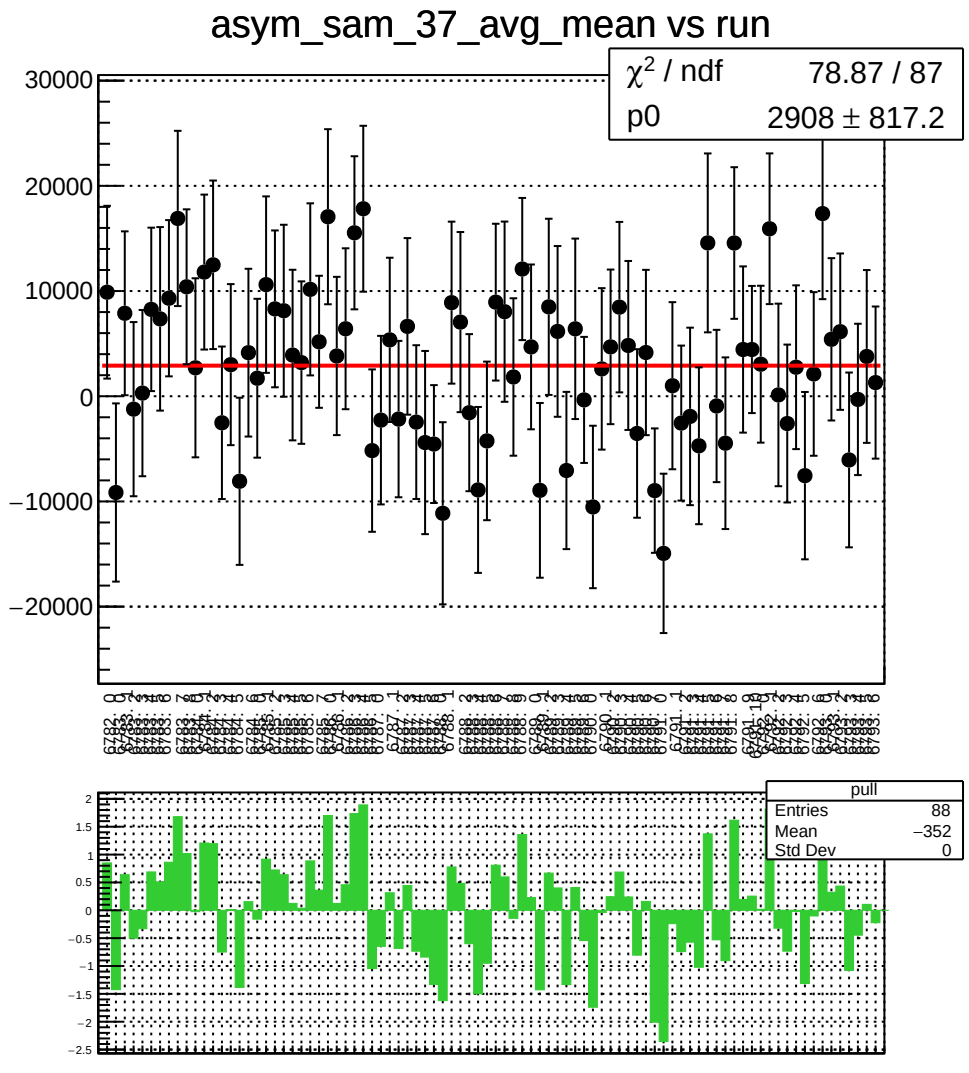

pull1D
Entries 88
Mean 0.006221
Std Dev 0.9437

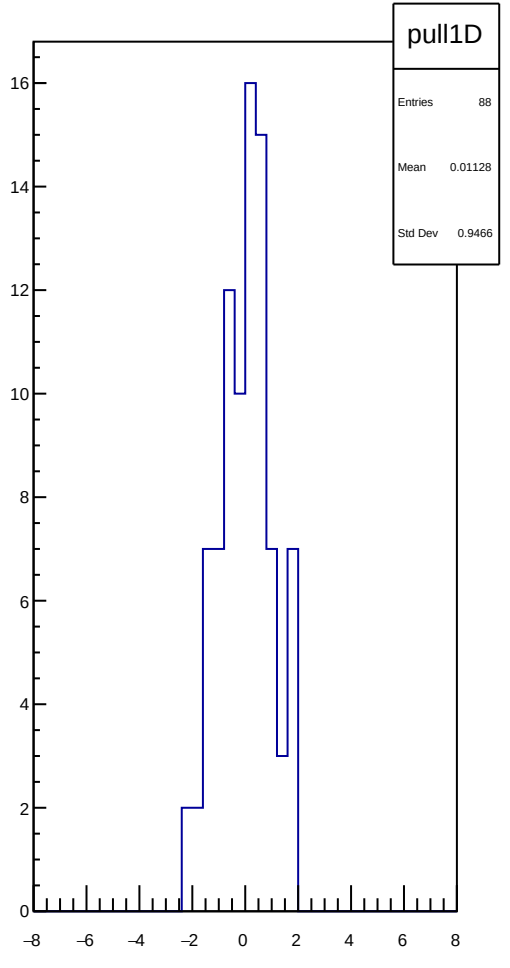

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.924e+04 / 87
p0 83.76 ± 0.0657
120
110
100
90
80
70

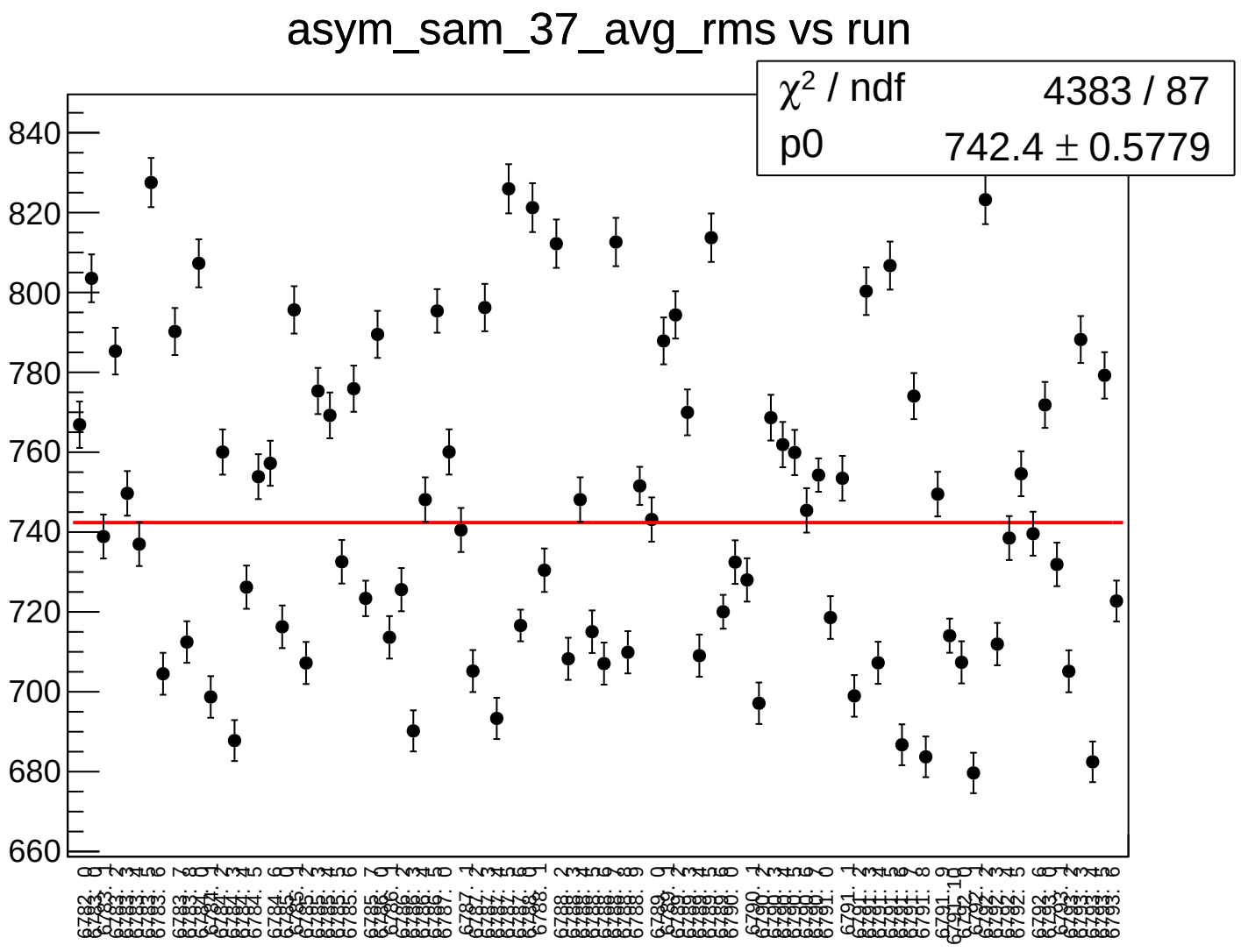

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.14 / 87
p0 −2534 ± 760.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −292.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

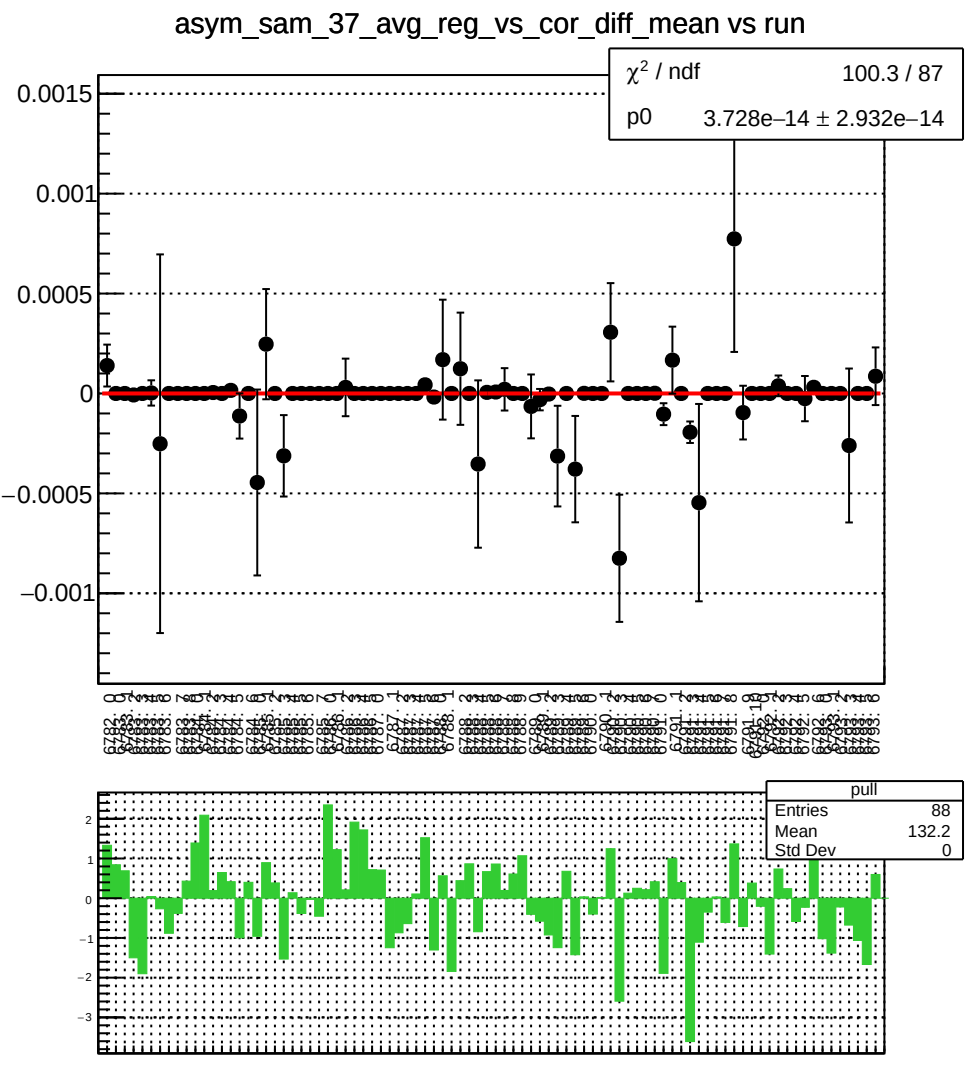

pull1D
Entries 88
Mean −0.01292
Std Dev 0.9482
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

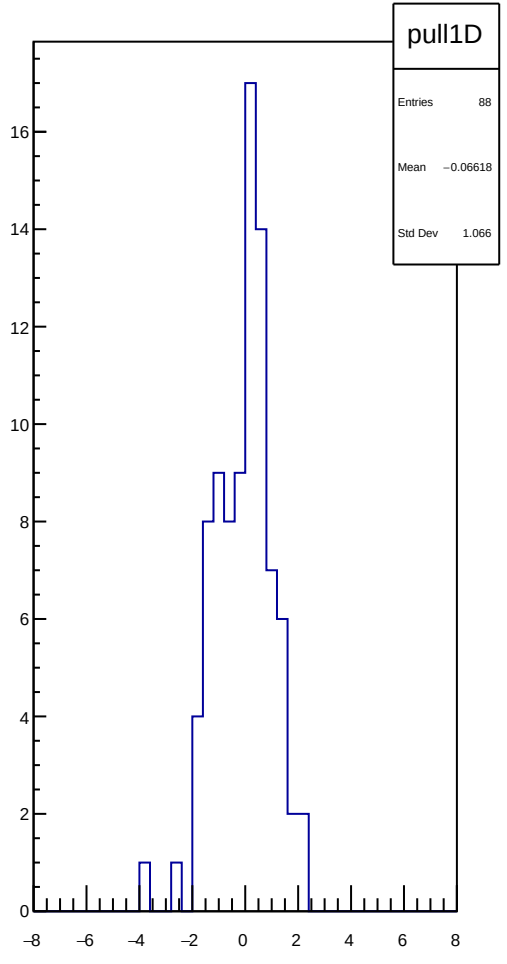

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2693 / 87
p0 691.3 ± 0.5378
760
740
720
700
680
660
640

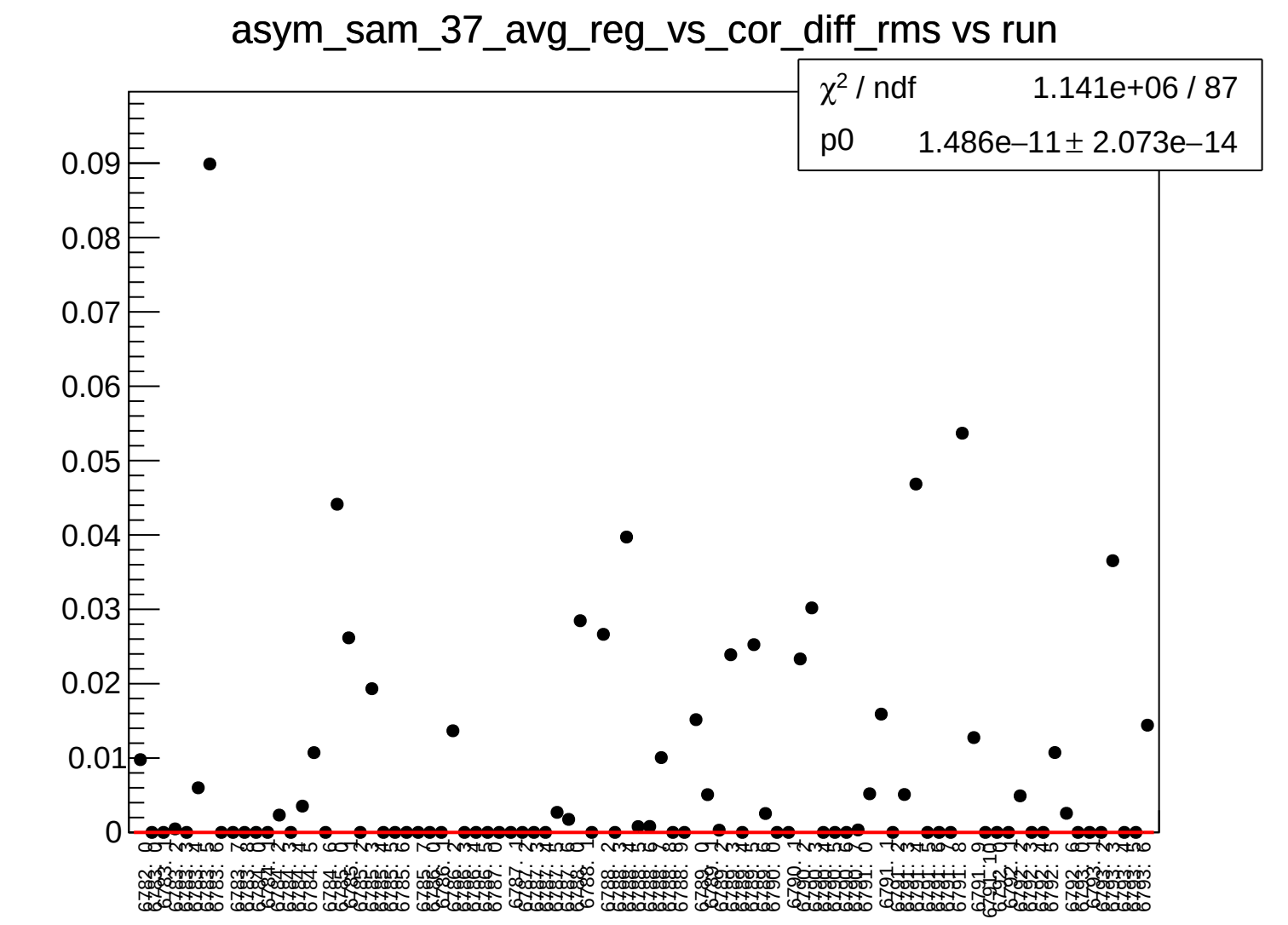

asym_sam_37_avg_mean vs run
χ² / ndf 78.87 / 87
p0 2908 ± 817.2
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −352
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

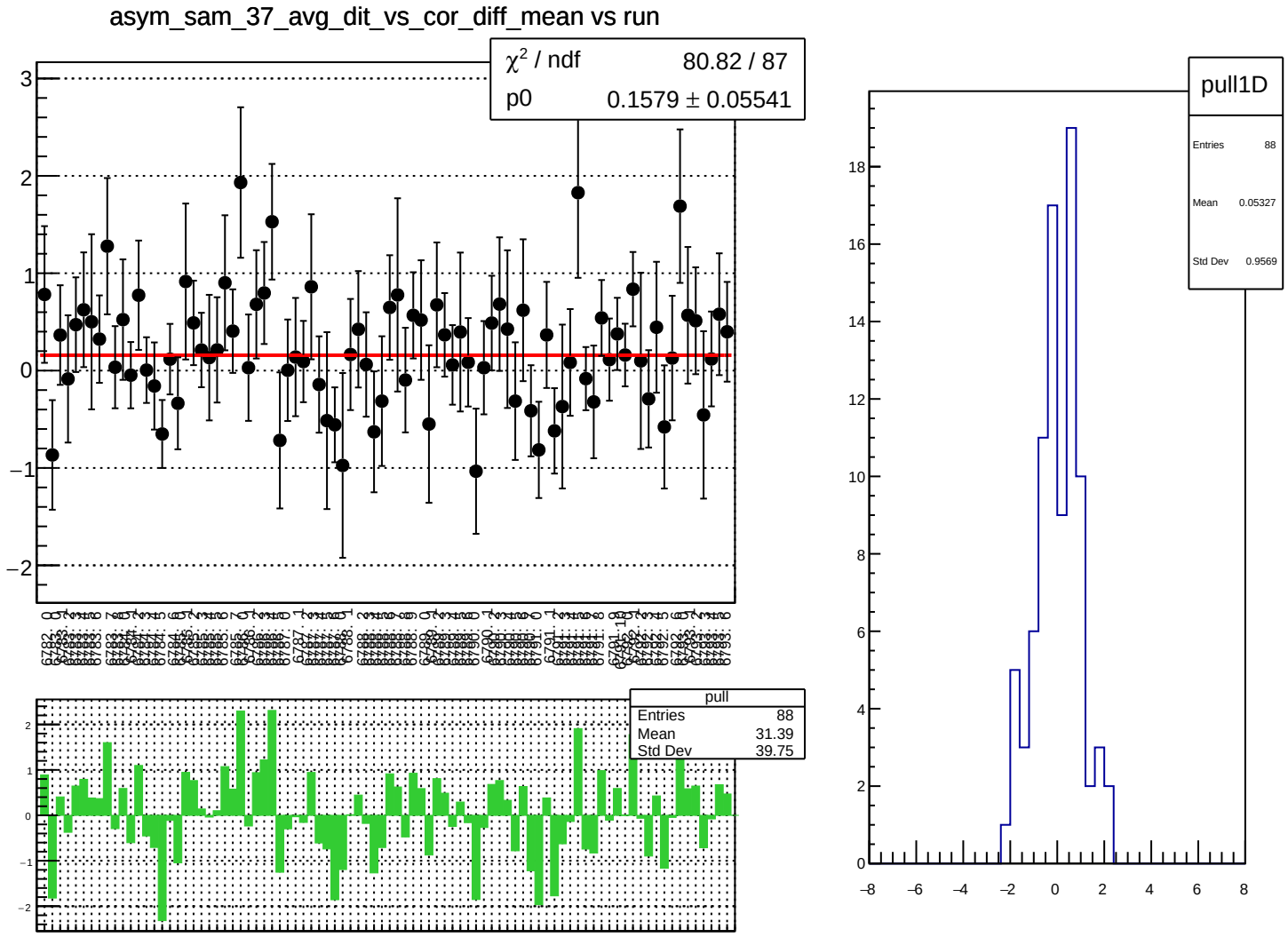

pull1D
Entries 88
Mean 0.01128
Std Dev 0.9466
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

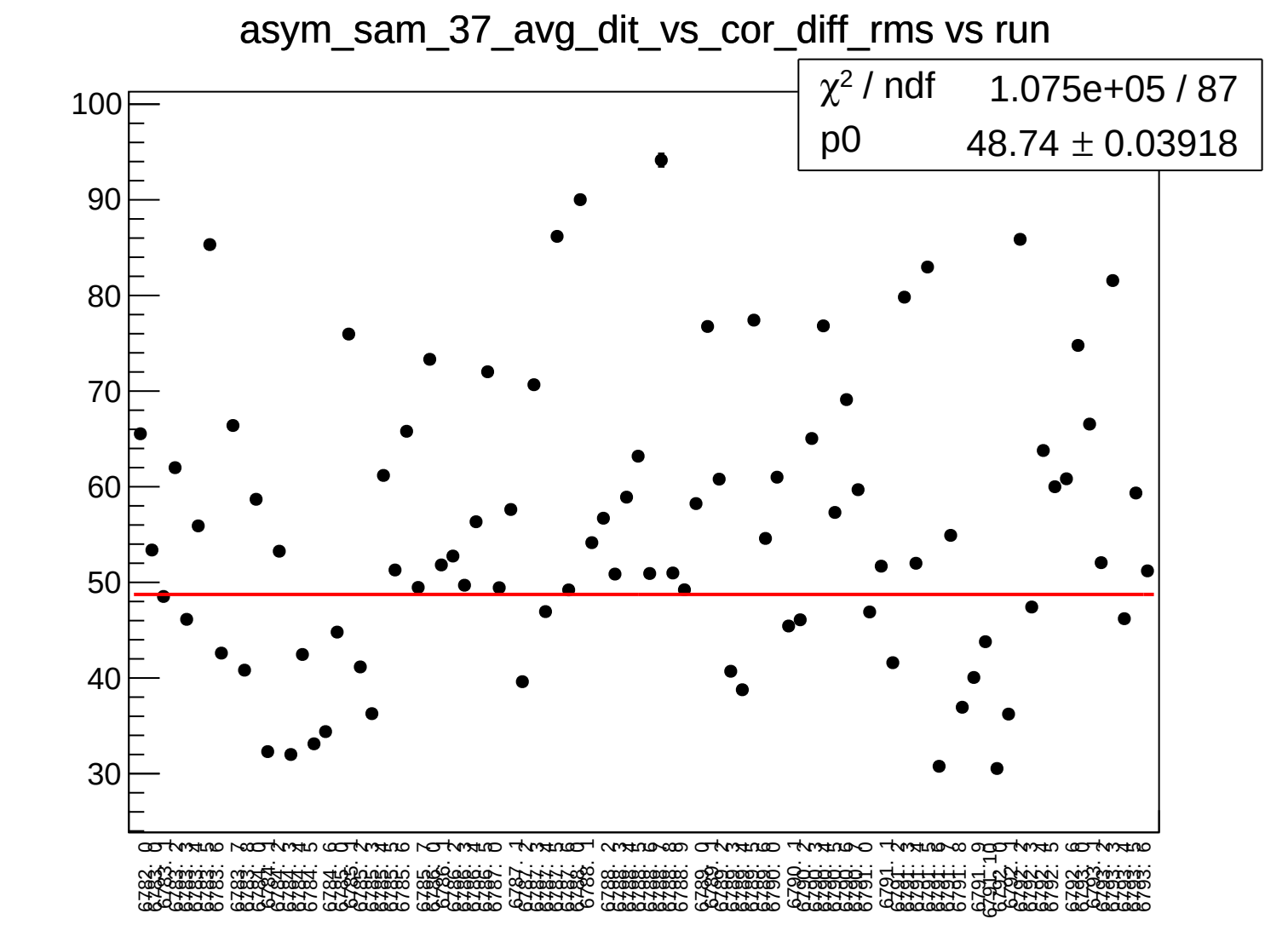

asym_sam_37_avg_rms vs run
χ² / ndf 4383 / 87
p0 742.4 ± 0.5779
840
820
800
780
760
740
720
700
680
660

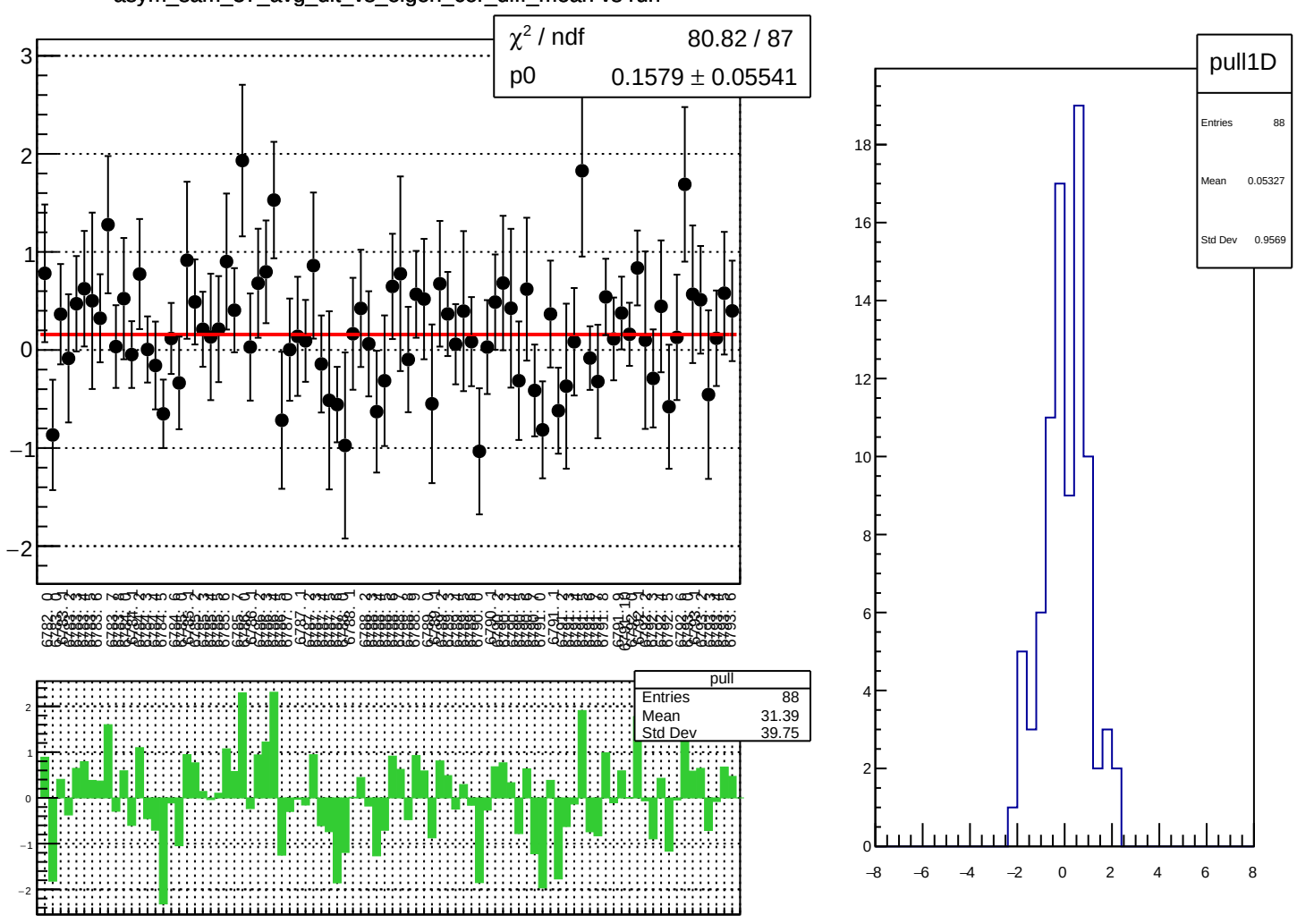

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 87
p0 3.728e−14 ± 2.932e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 132.2
Std Dev 0
2
1
0
−1
−2
−3

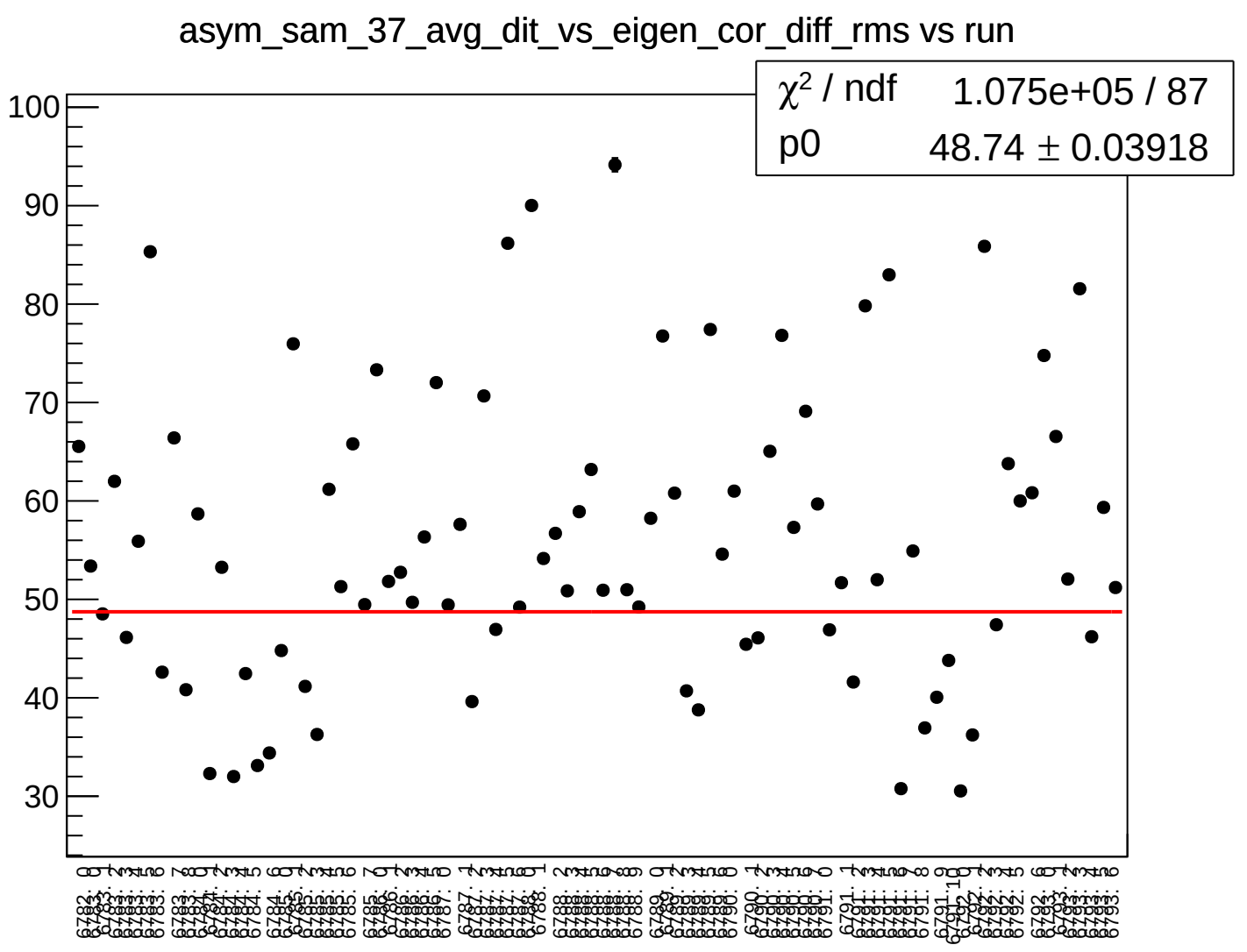

pull1D
Entries 88
Mean −0.06618
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

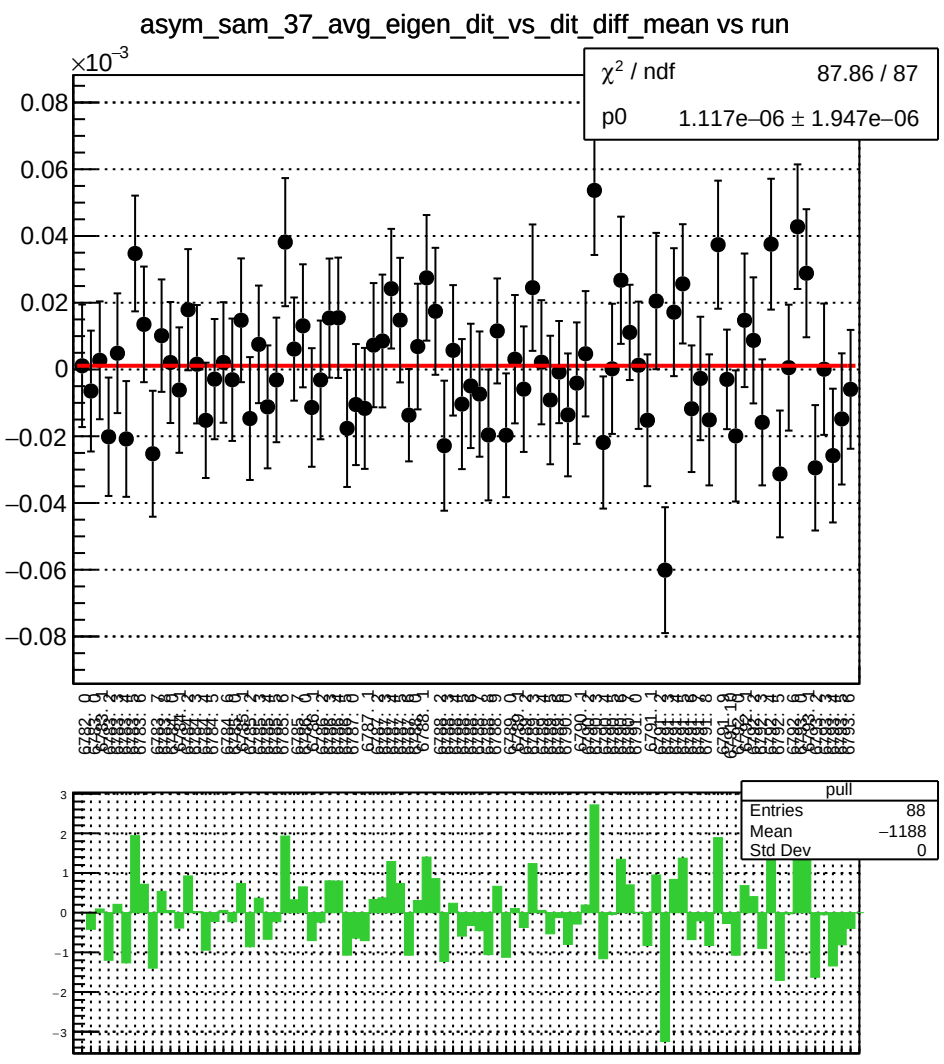

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 87
p0 1.486e−11 ± 2.073e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

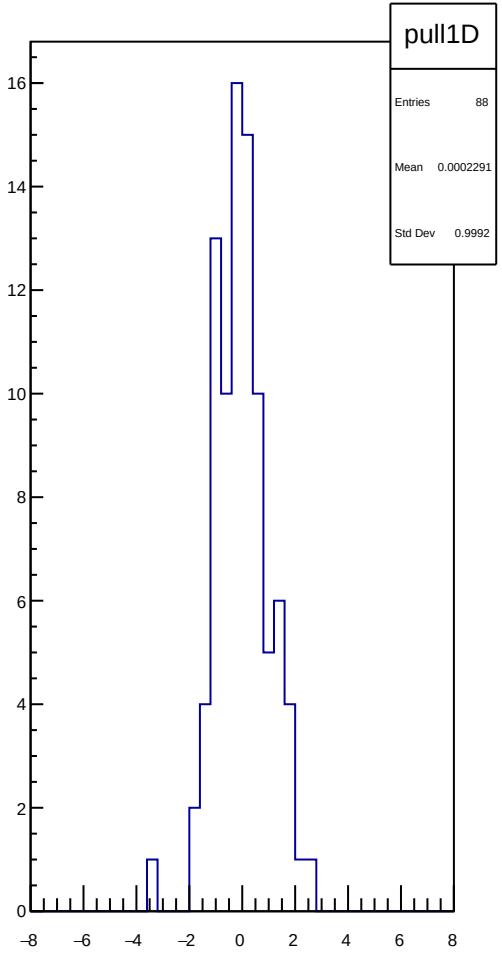

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 0.1579 ± 0.05541
pull
Entries 88
Mean 31.39
Std Dev 39.75
pull1D
Entries 88
Mean 0.05327
Std Dev 0.9569

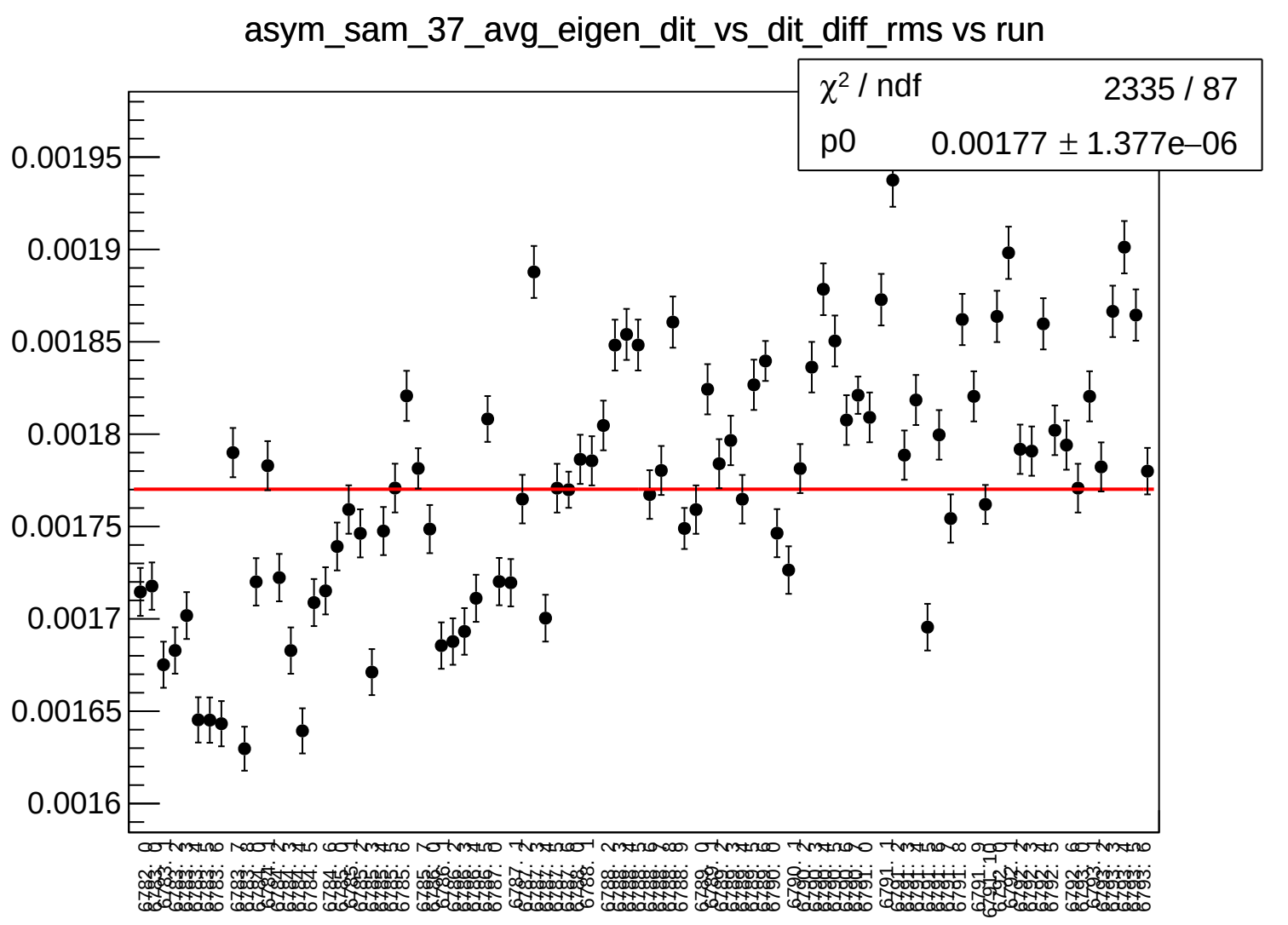

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 87
p0 48.74 ± 0.03918
100
90
80
70
60
50
40
30

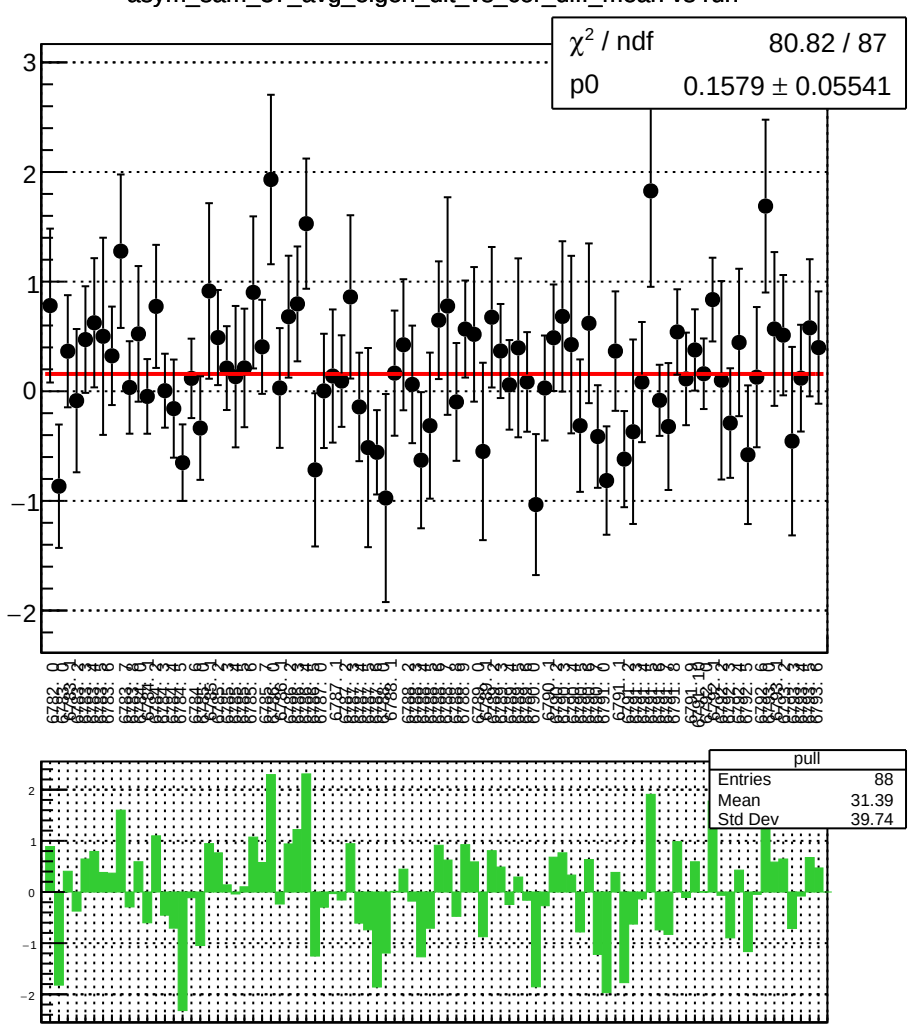

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 0.1579 ± 0.05541
pull
Entries 88
Mean 31.39
Std Dev 39.75
pull1D
Entries 88
Mean 0.05327
Std Dev 0.9569

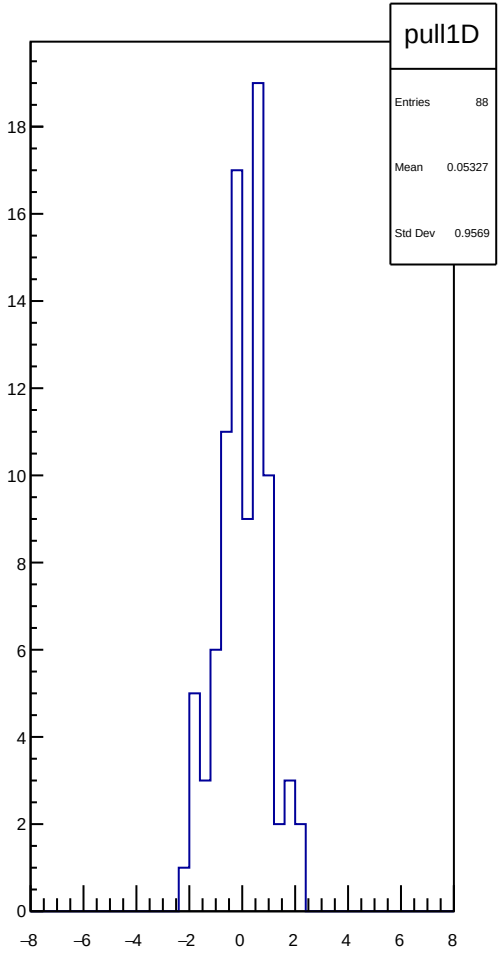

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 87
p0 48.74 ± 0.03918
100
90
80
70
60
50
40
30

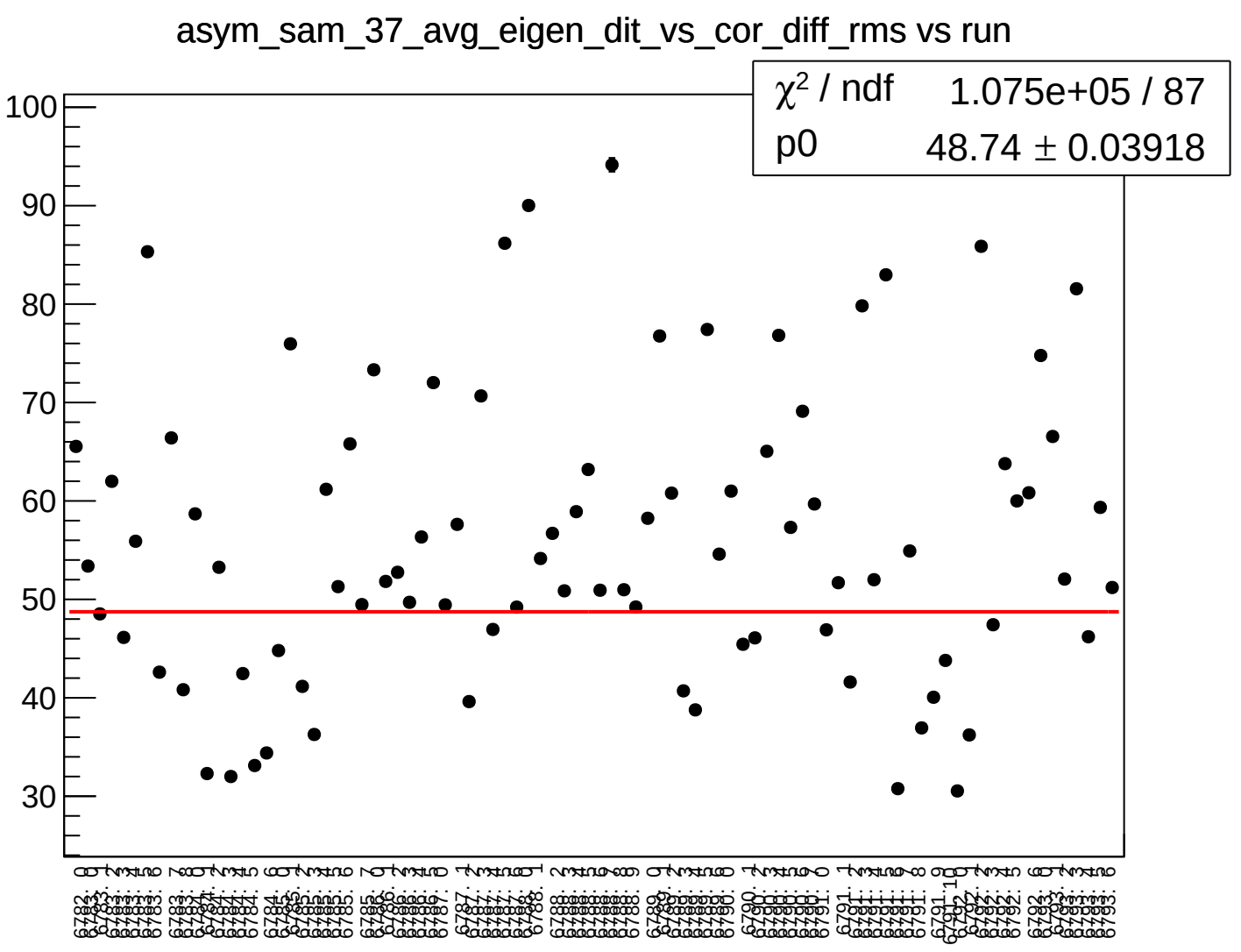

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.86 / 87
p0 1.117e−06 ± 1.947e−06
pull
Entries 88
Mean −1188
Std Dev 0

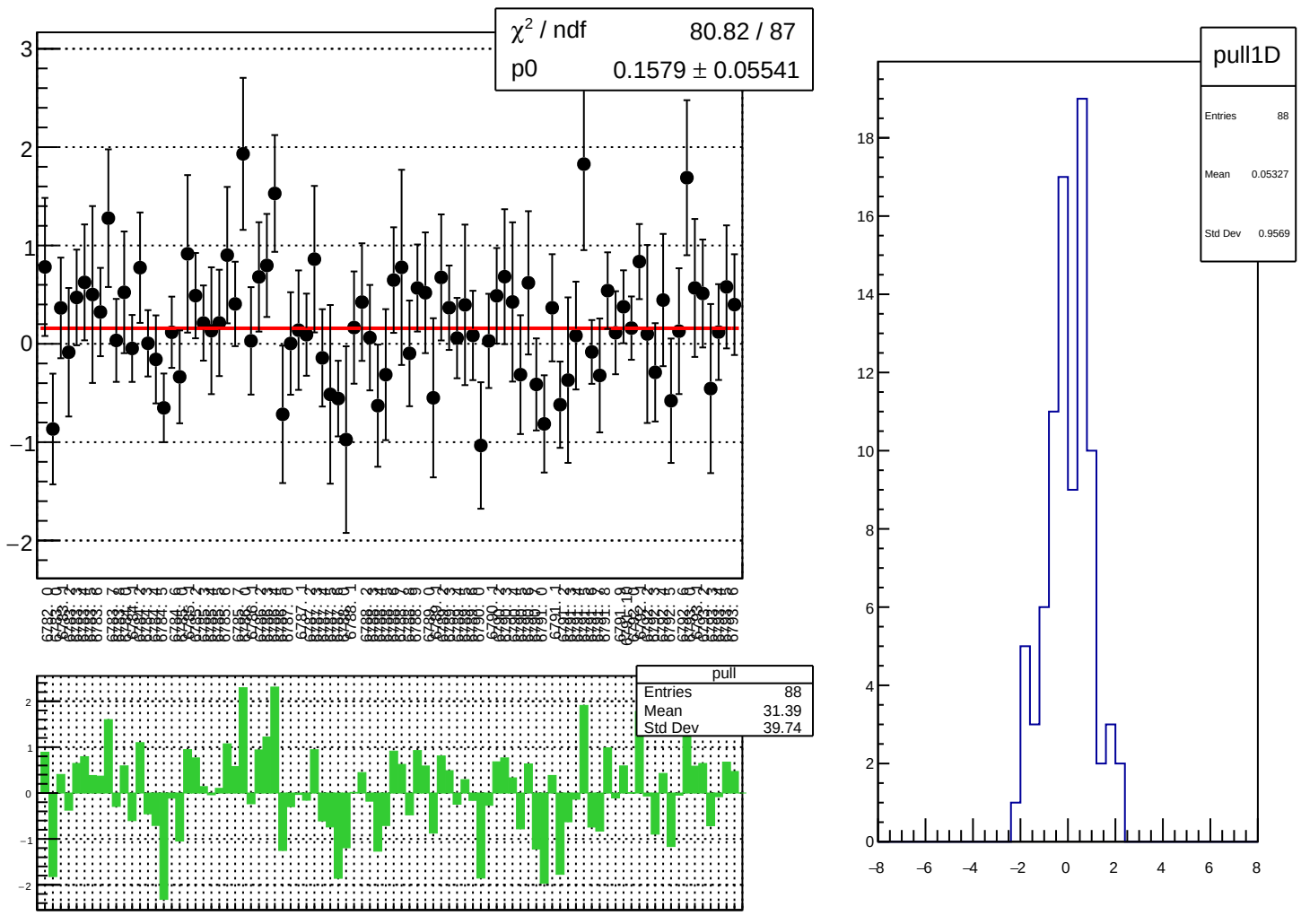

pull1D
Entries 88
Mean 0.0002291
Std Dev 0.9992

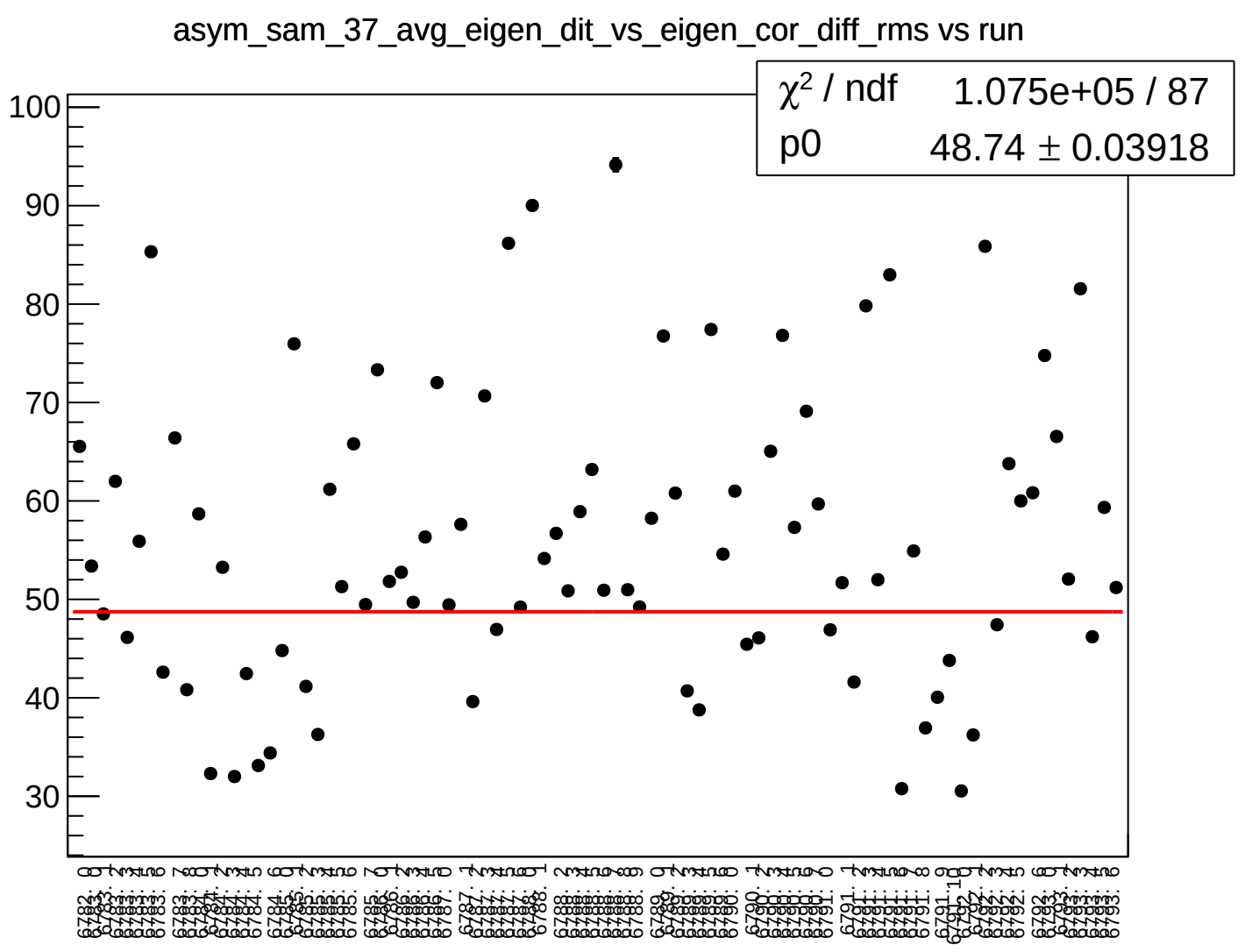

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2335 / 87
p0 0.00177 ± 1.377e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

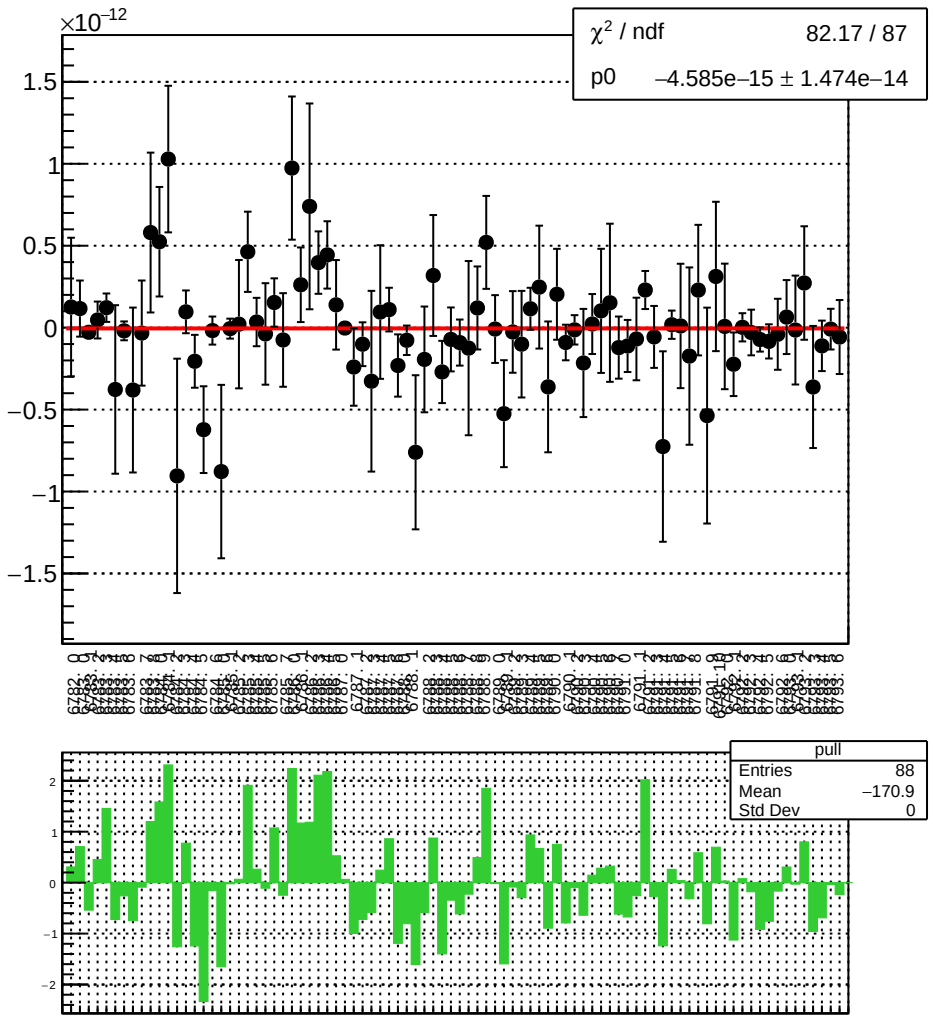

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 0.1579 ± 0.05541
pull
Entries 88
Mean 31.39
Std Dev 39.74

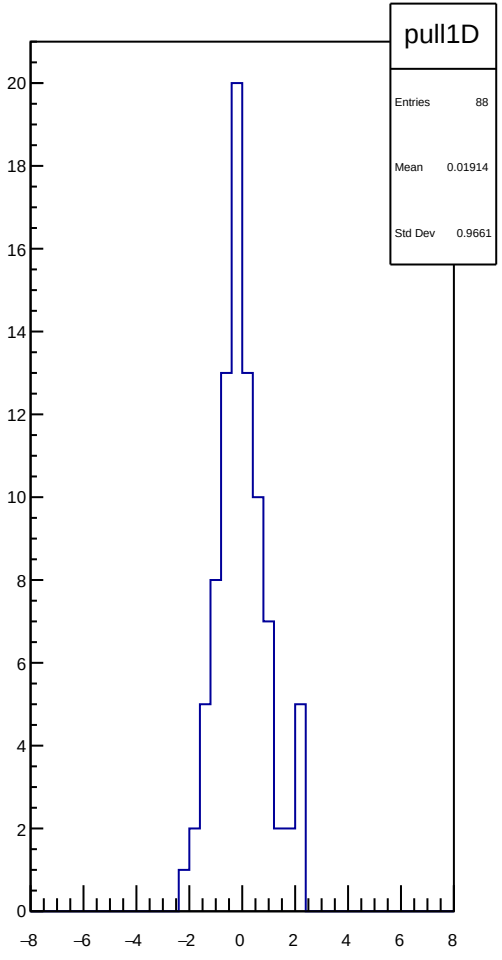

pull1D
Entries 88
Mean 0.05327
Std Dev 0.9569

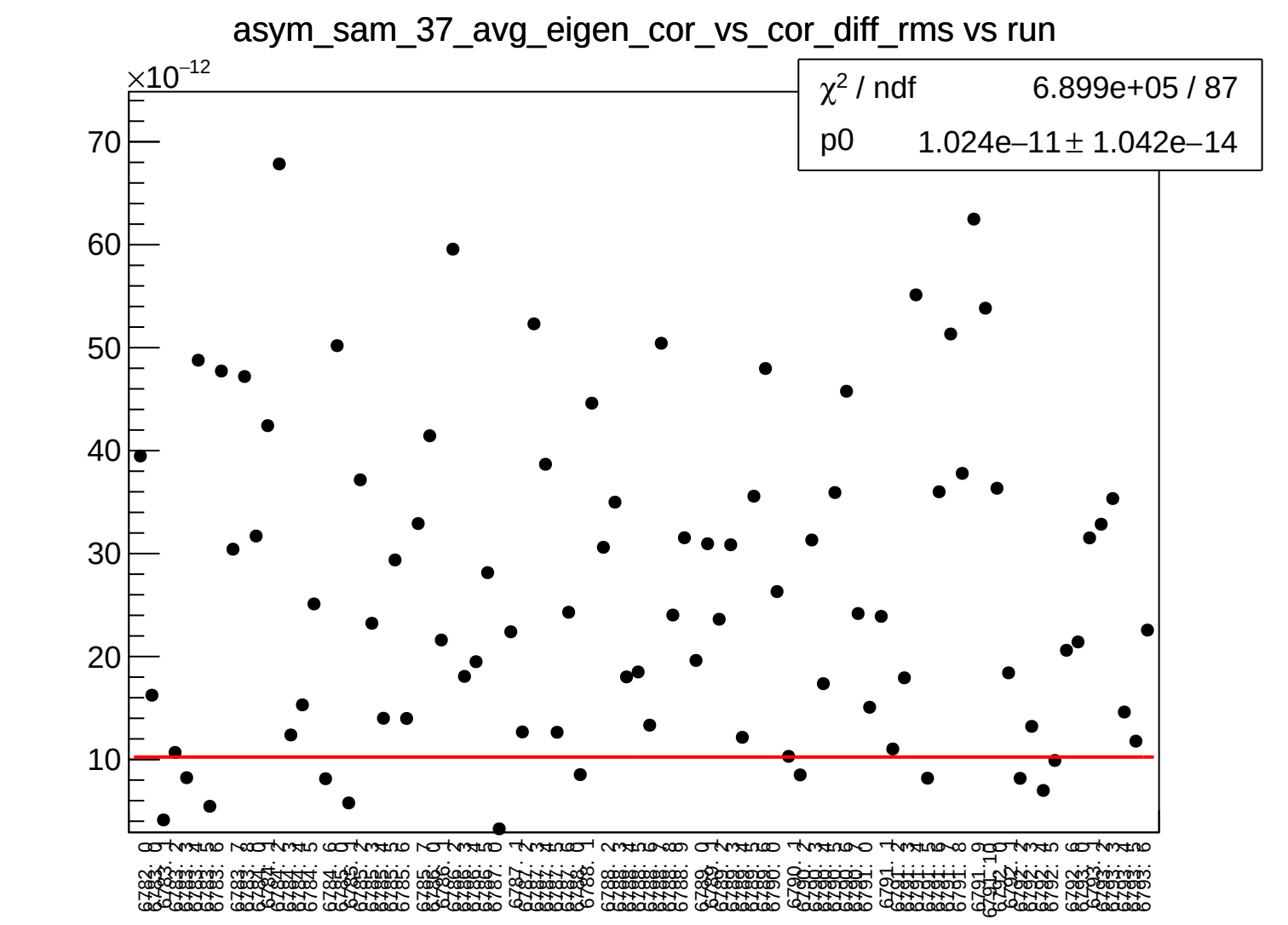

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 87
p0 48.74 ± 0.03918
100
90
80
70
60
50
40
30

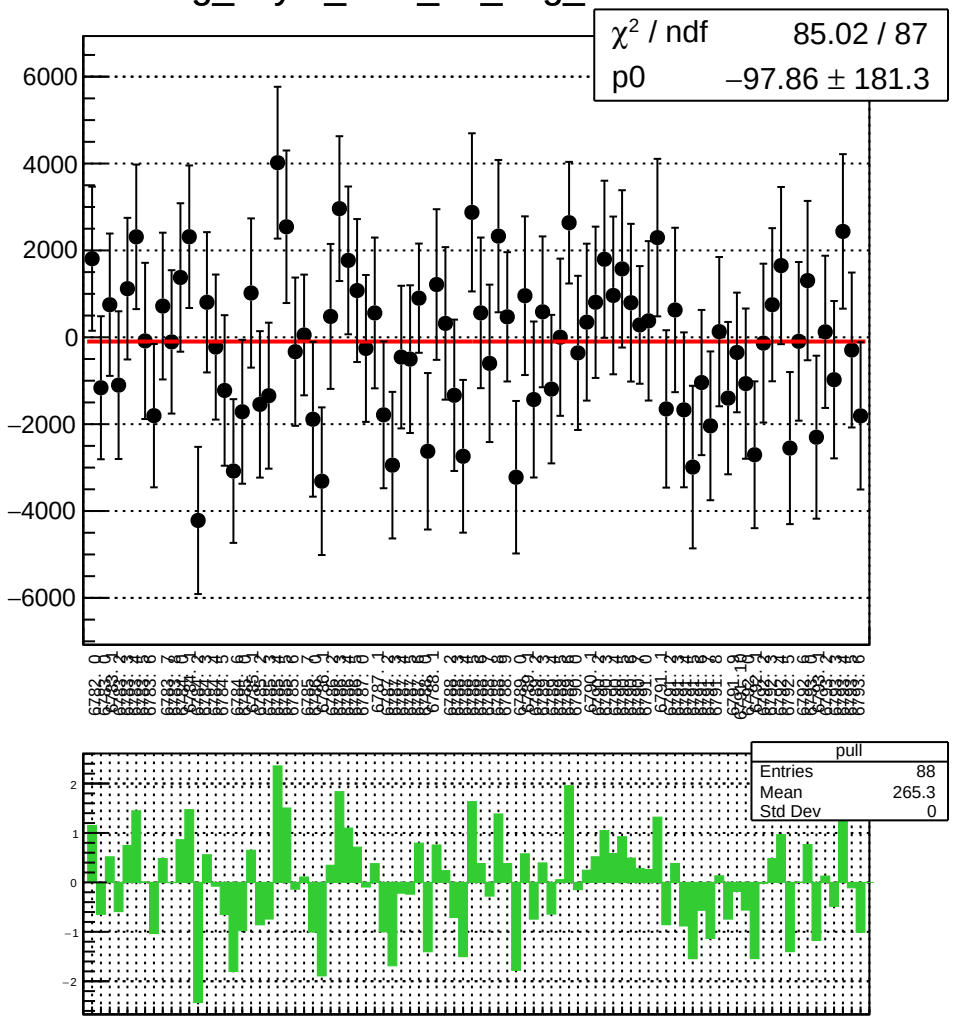

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.82 / 87
p0 0.1579 ± 0.05541
pull
Entries 88
Mean 31.39
Std Dev 39.74
pull1D
Entries 88
Mean 0.05327
Std Dev 0.9569

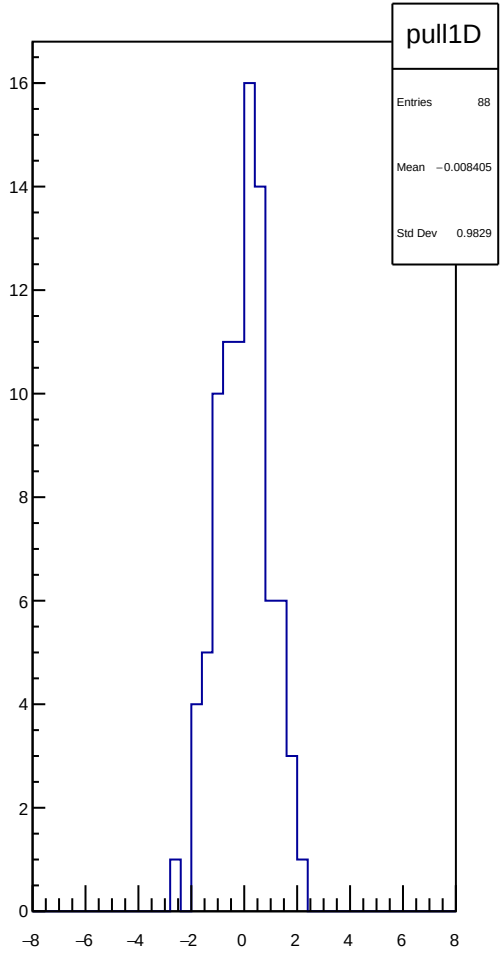

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 87
p0 48.74 ± 0.03918
100
90
80
70
60
50
40
30

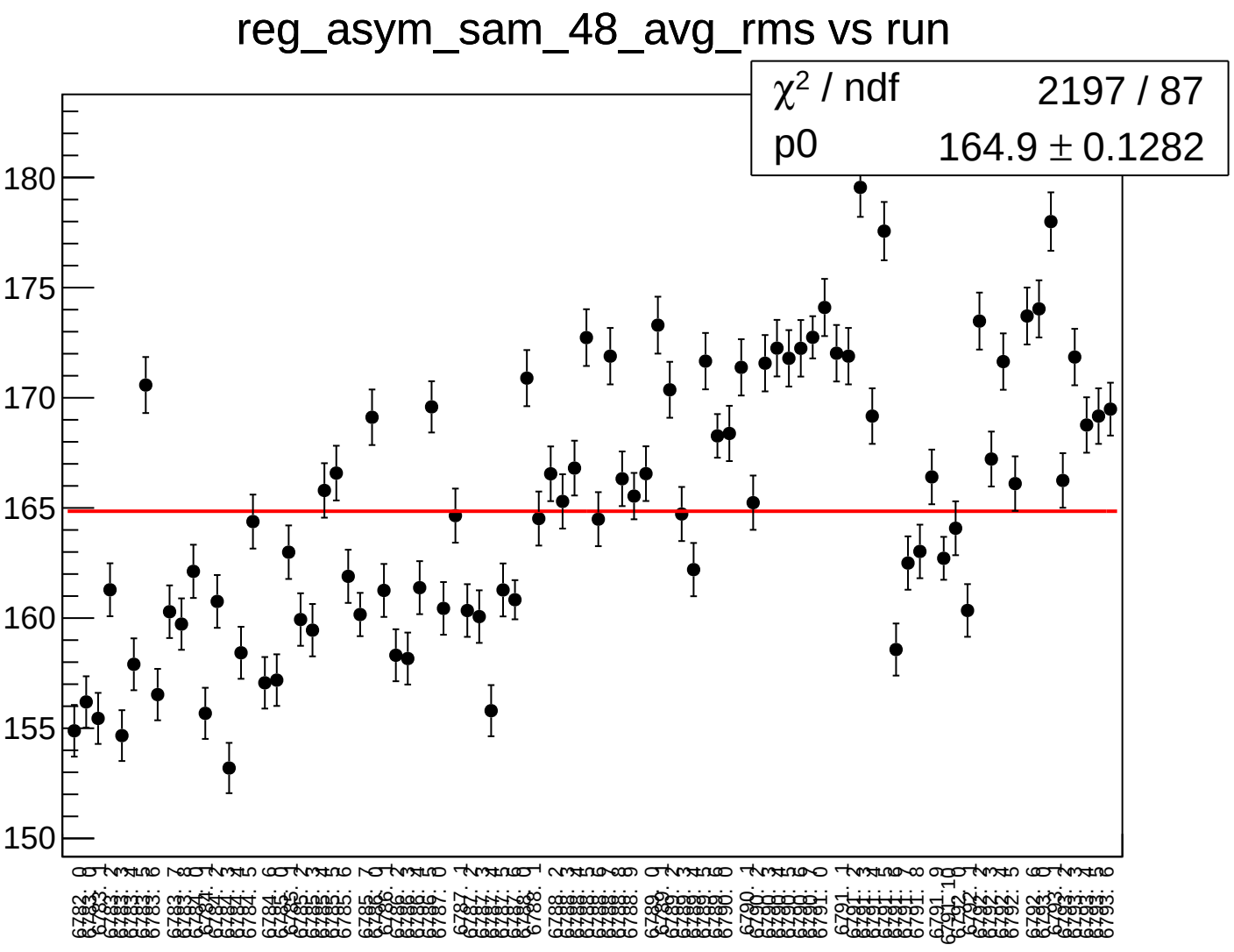

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.17 / 87
p0 −4.585e−15 ± 1.474e−14
pull
Entries 88
Mean −170.9
Std Dev 0

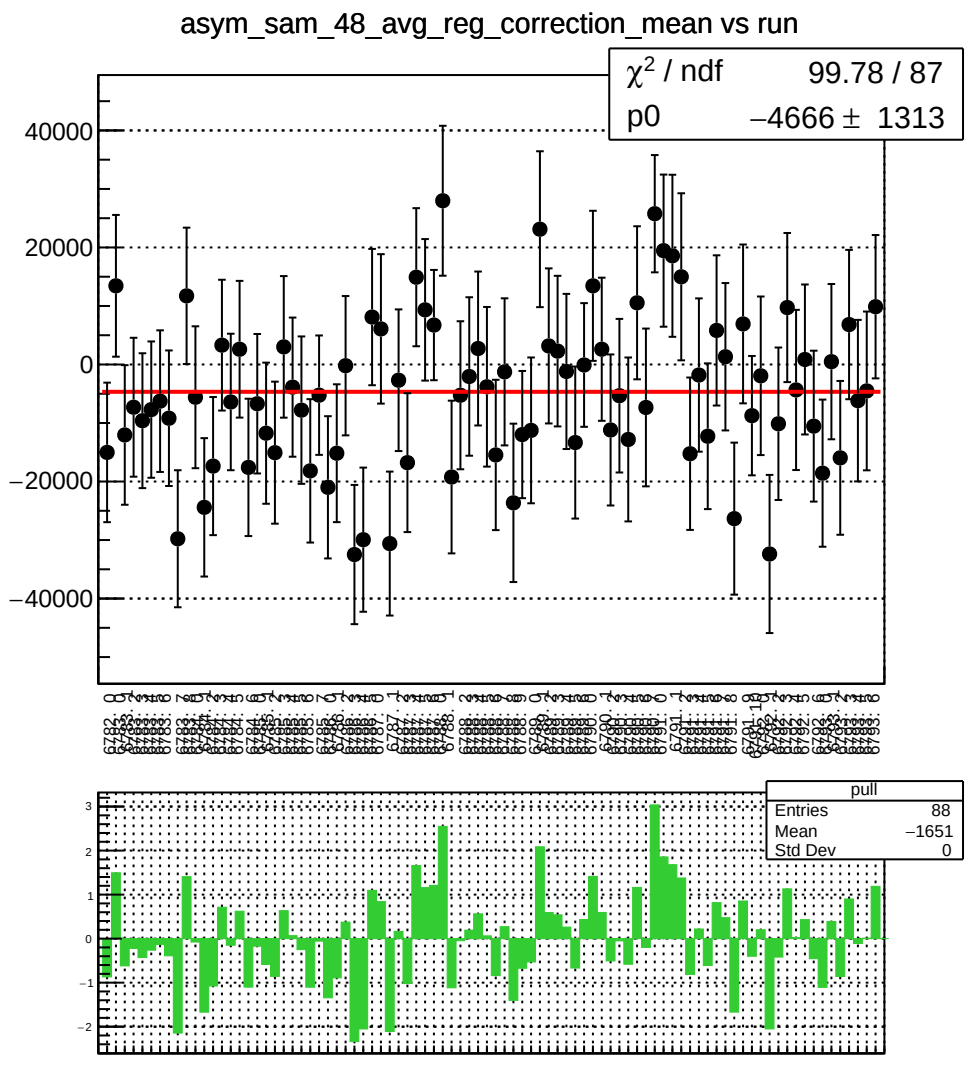

pull1D
Entries 88
Mean 0.01914
Std Dev 0.9661

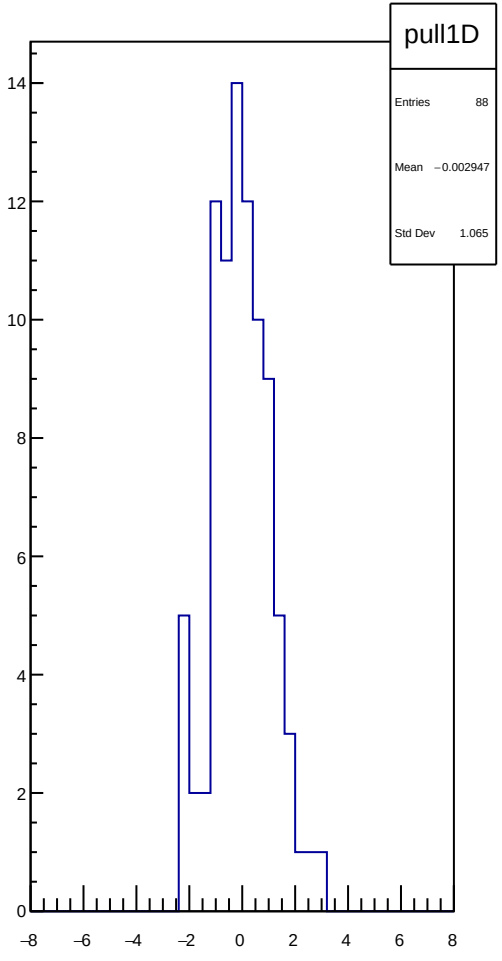

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.899e+05 / 87
p0 1.024e−11 ± 1.042e−14
70
60
50
40
30
20
10

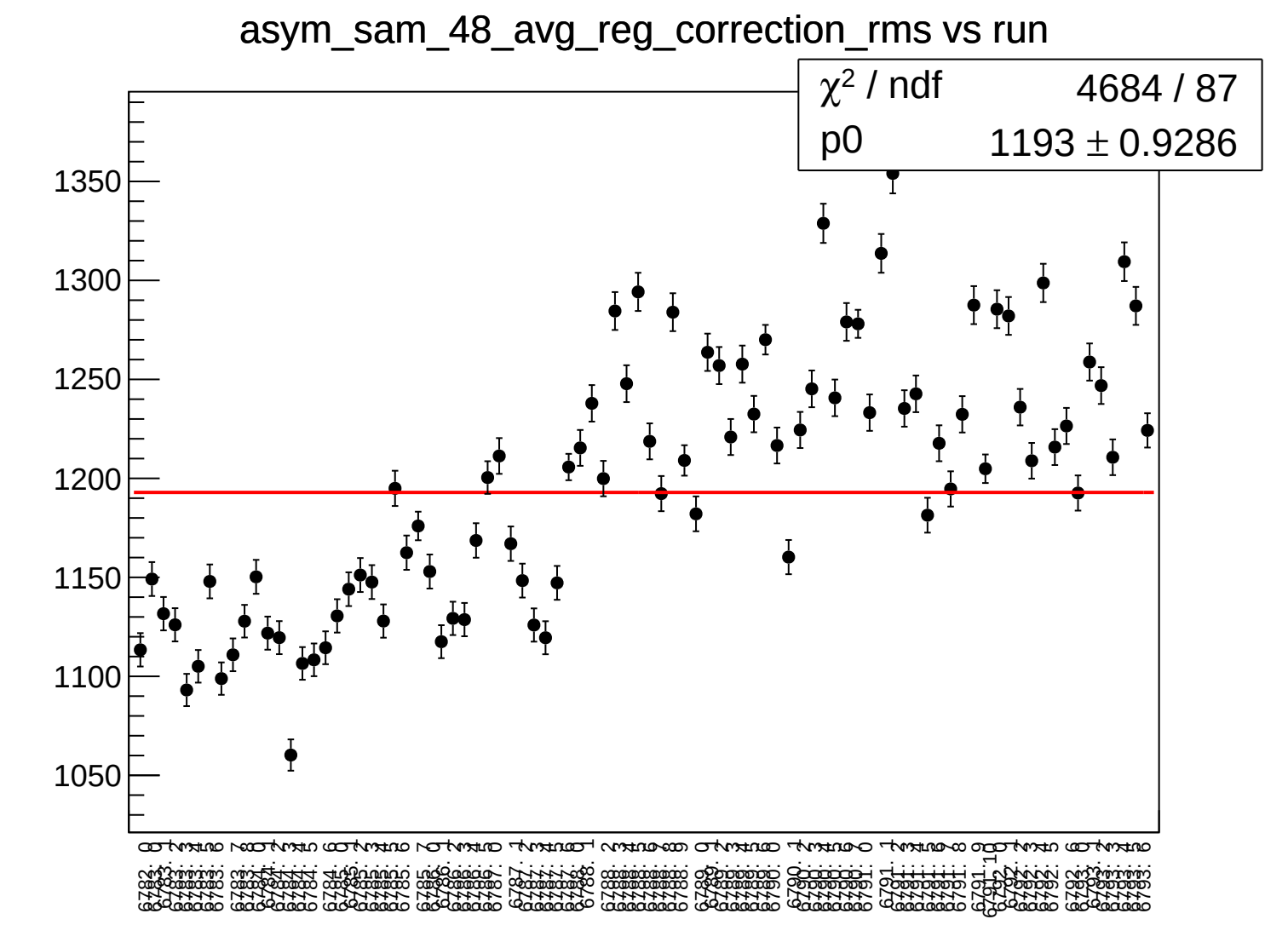

reg_asym_sam_48_avg_mean vs run
χ² / ndf 85.02 / 87
p0 −97.86 ± 181.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 265.3
Std Dev 0
2
1
0
−1
−2

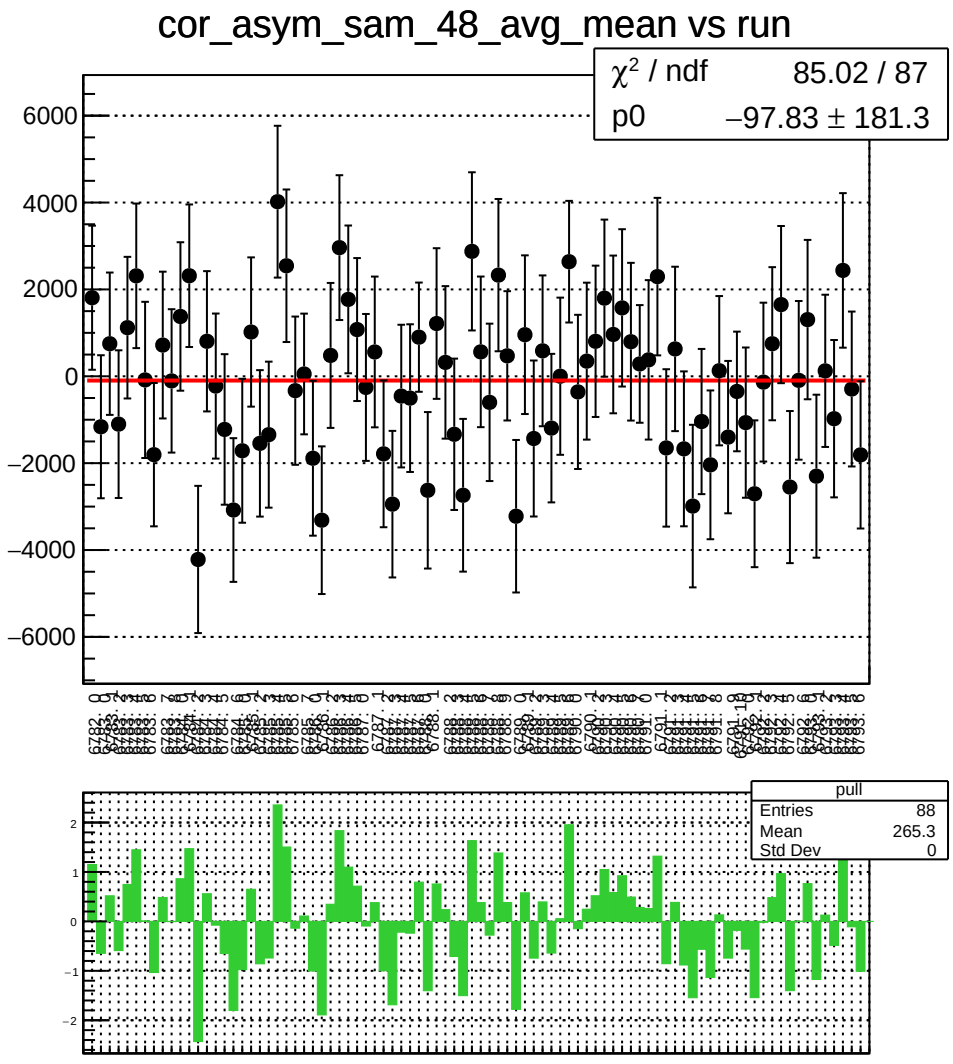

pull1D
Entries 88
Mean −0.008405
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

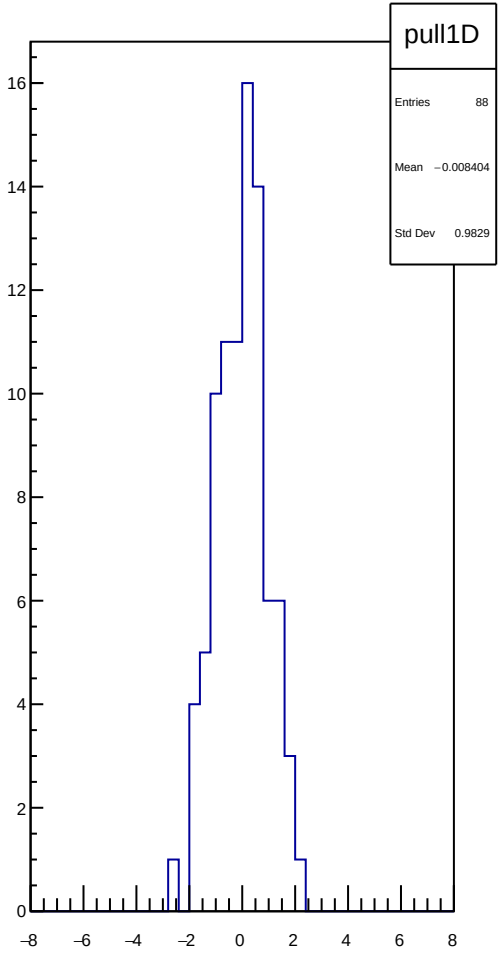

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2197 / 87
p0 164.9 ± 0.1282
180
175
170
165
160
155
150

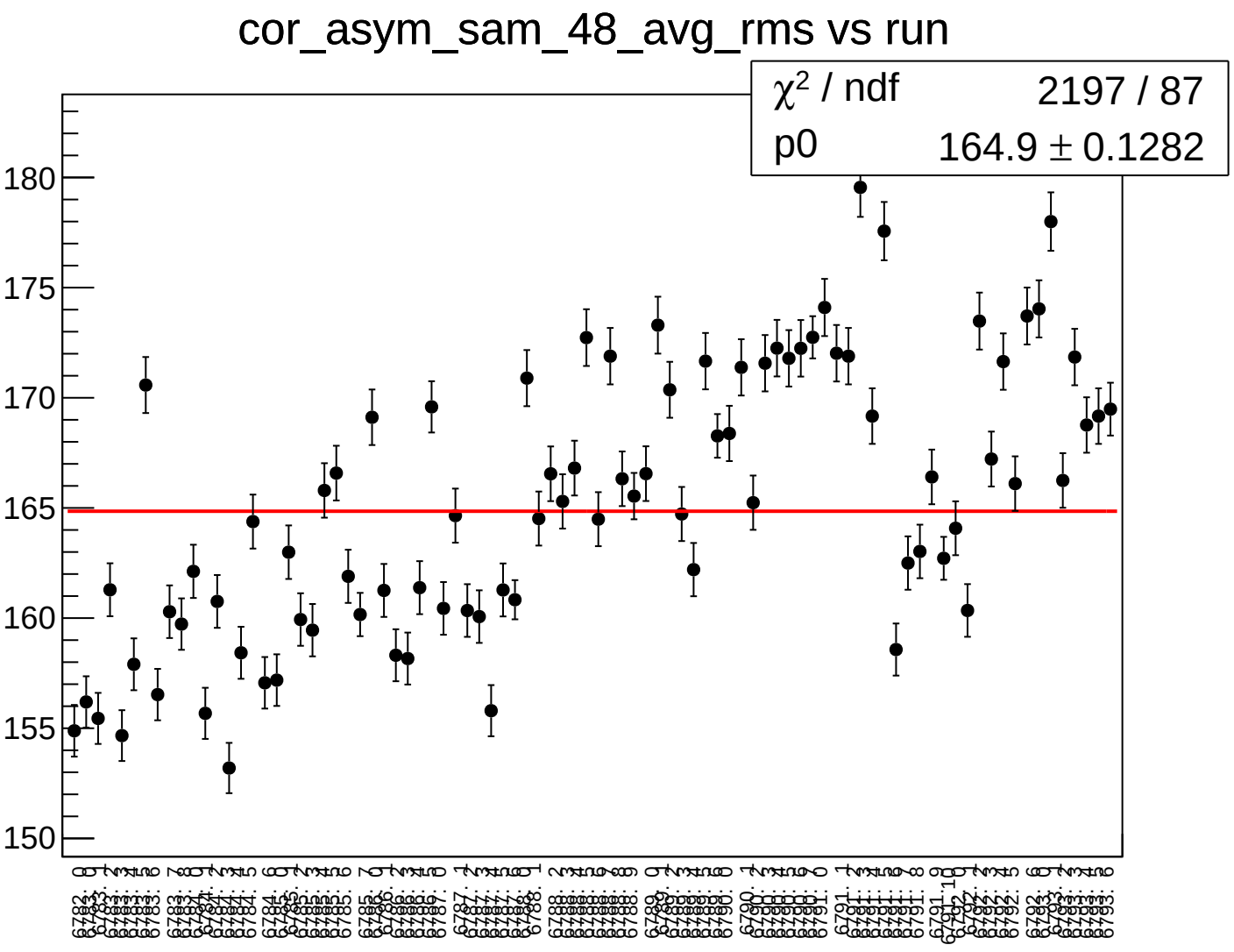

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 99.78 / 87
p0 −4666 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −1651
Std Dev 0
3
2
1
0
−1
−2

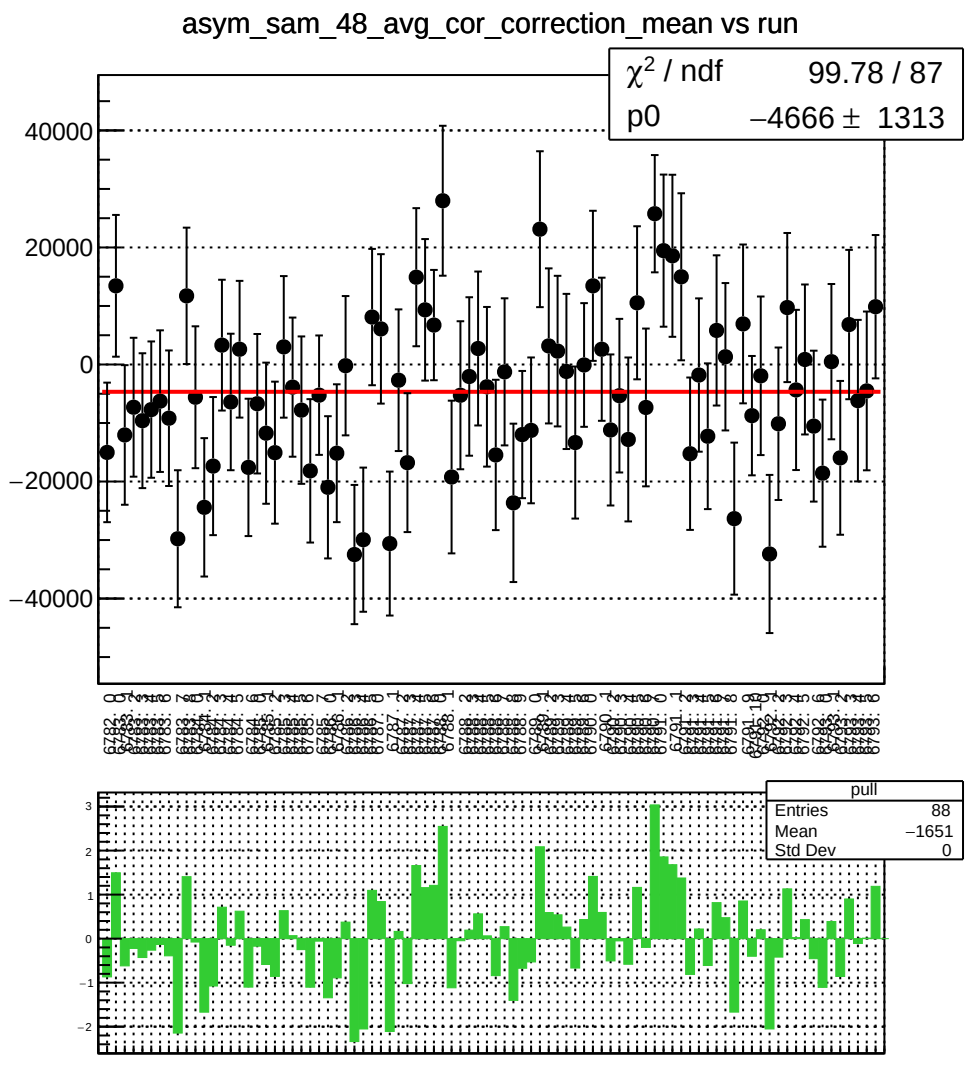

pull1D
Entries 88
Mean −0.002947
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

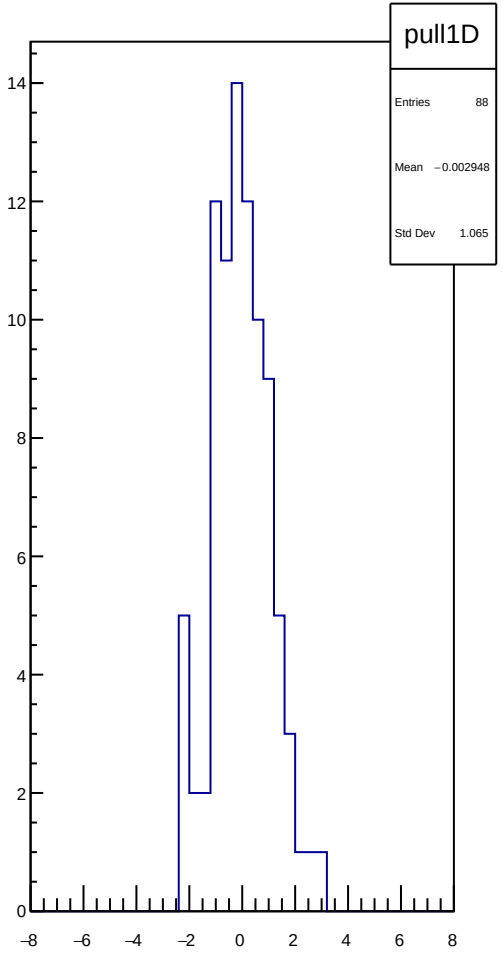

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 4684 / 87
p0 1193 ± 0.9286
1350
1300
1250
1200
1150
1100
1050

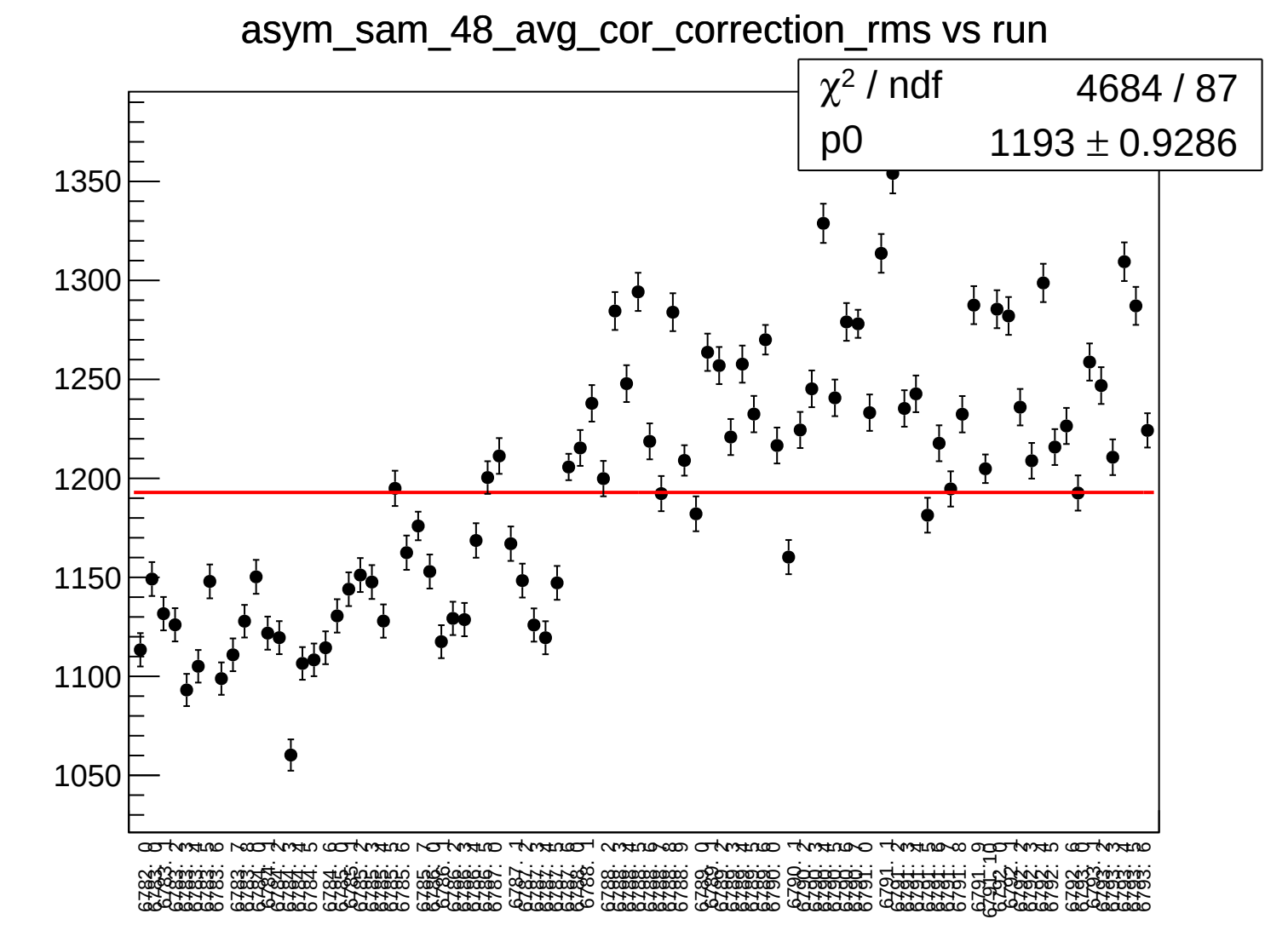

cor_asym_sam_48_avg_mean vs run
χ² / ndf 85.02 / 87
p0 −97.83 ± 181.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 265.3
Std Dev 0
2
1
0
−1
−2

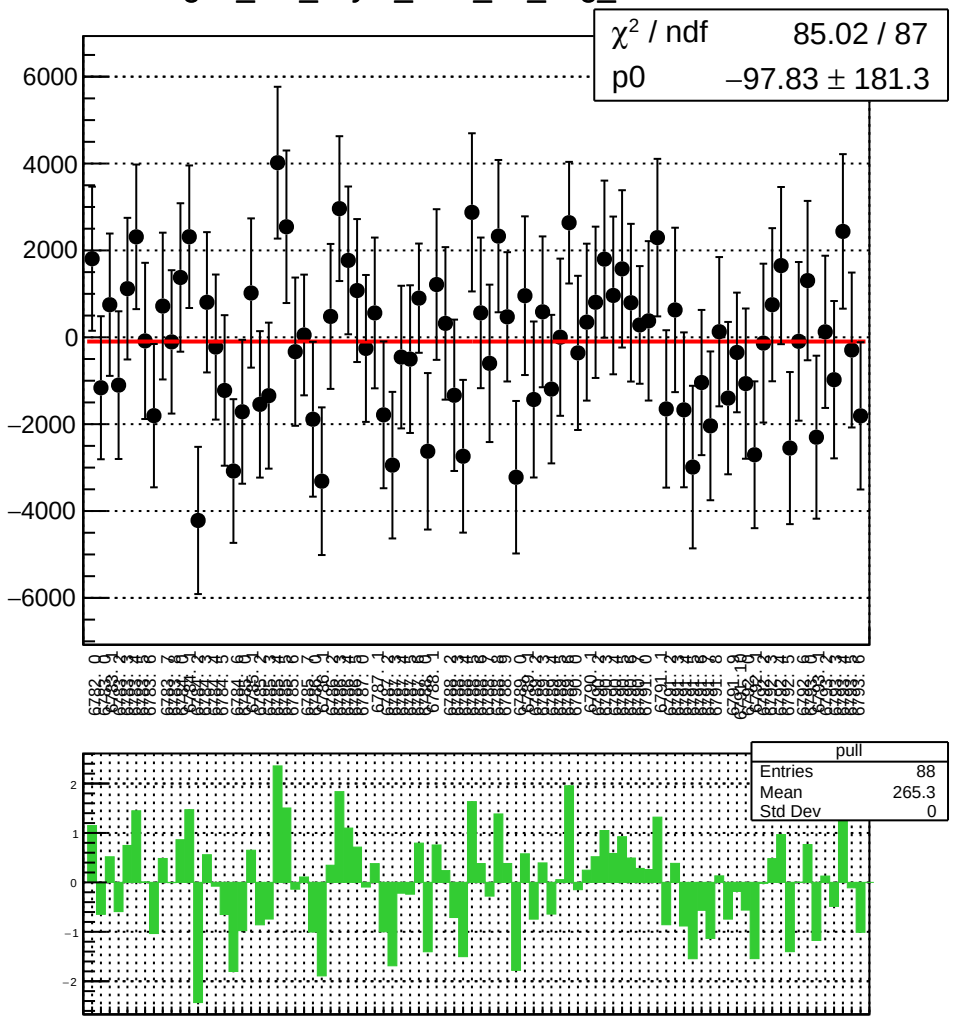

pull1D
Entries 88
Mean −0.008404
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

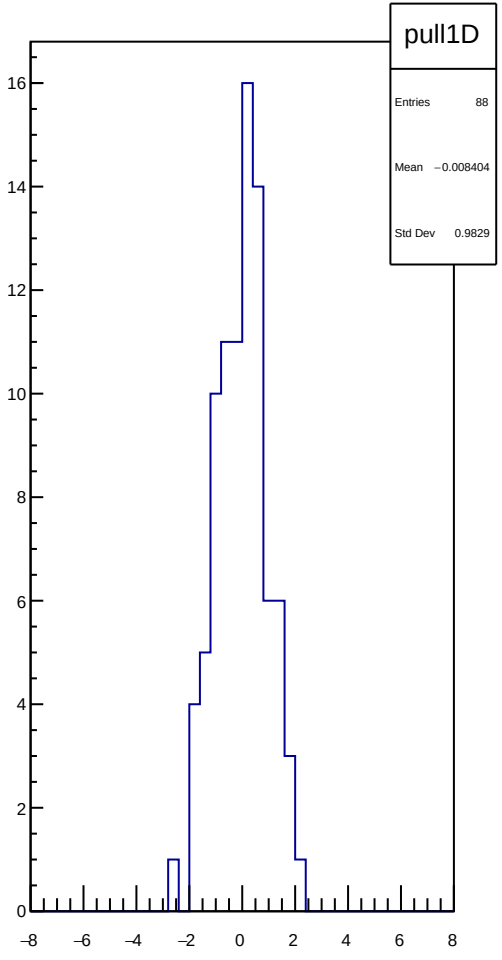

cor_asym_sam_48_avg_rms vs run
χ² / ndf 2197 / 87
p0 164.9 ± 0.1282
180
175
170
165
160
155
150

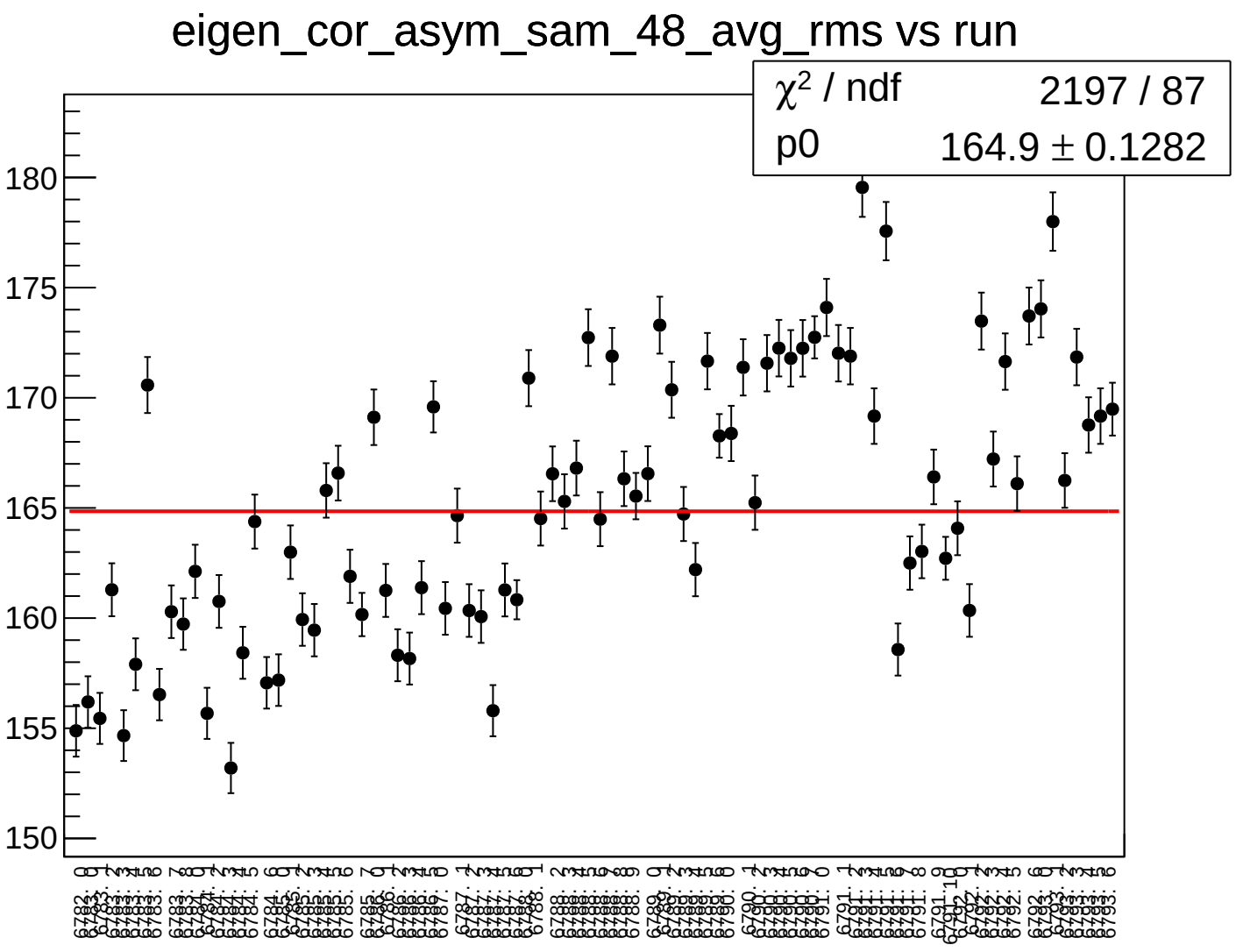

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 99.78 / 87
p0 −4666 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −1651
Std Dev 0
3
2
1
0
−1
−2

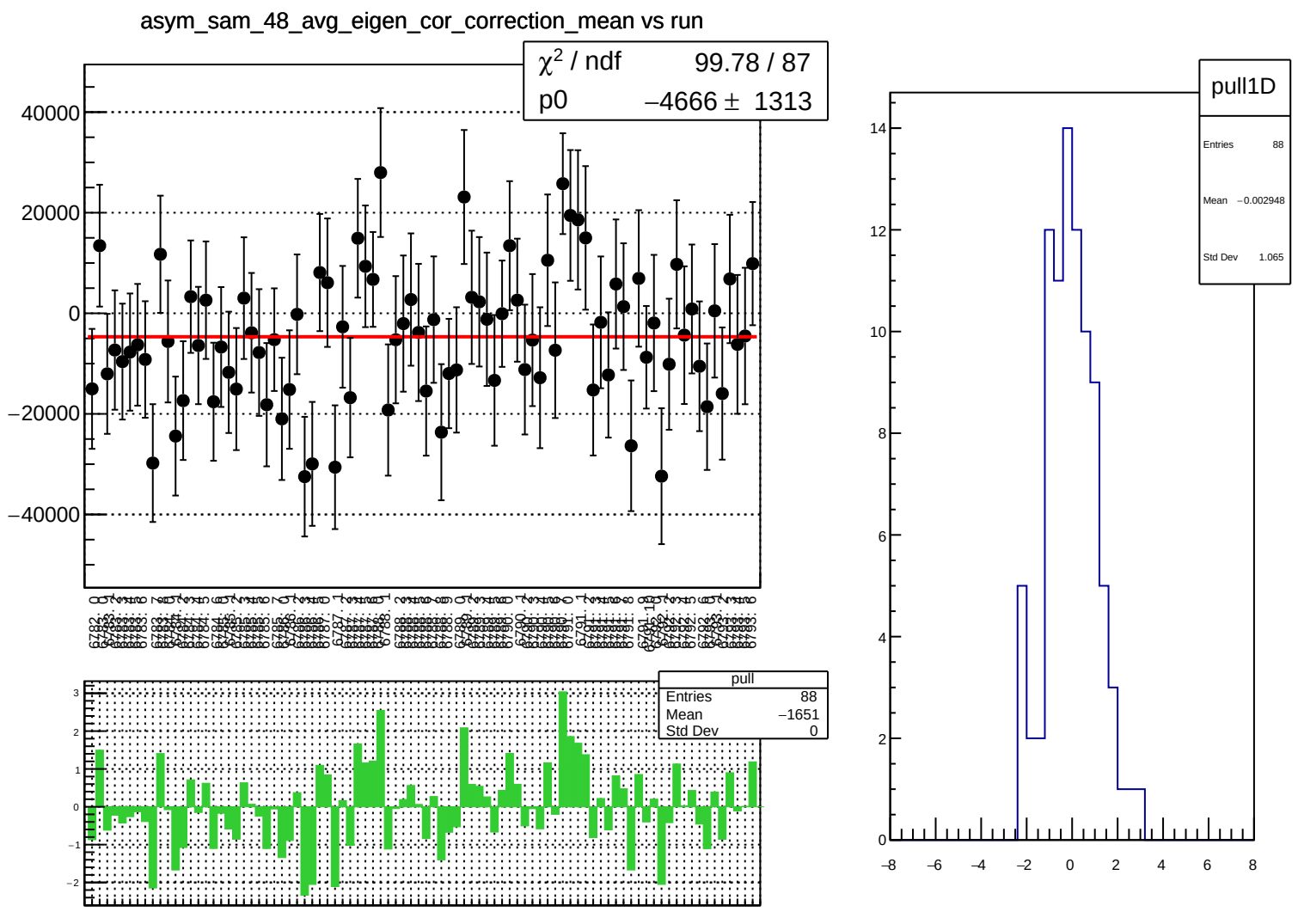

pull1D
Entries 88
Mean −0.002948
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

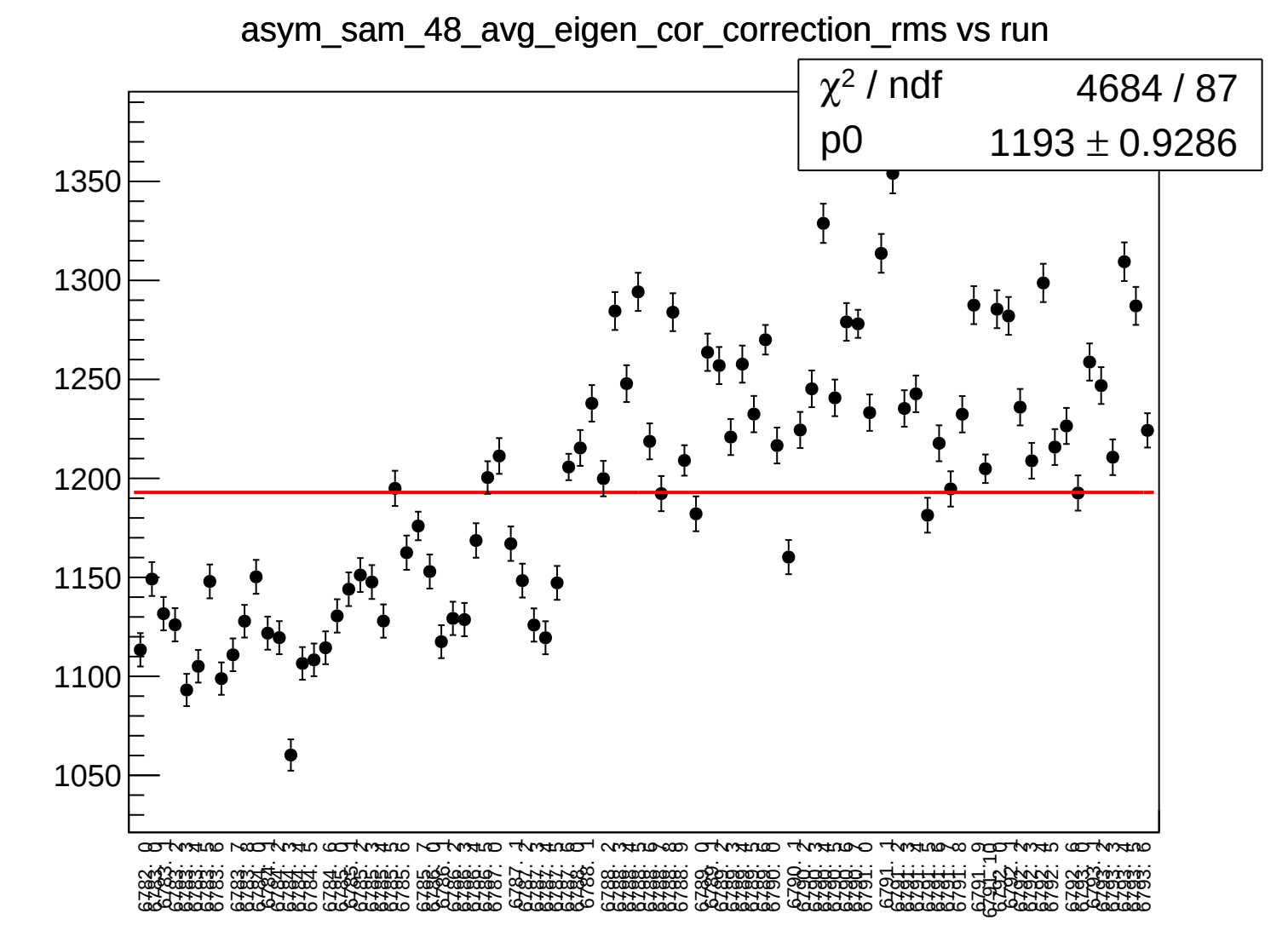

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 4684 / 87
p0 1193 ± 0.9286
1350
1300
1250
1200
1150
1100
1050

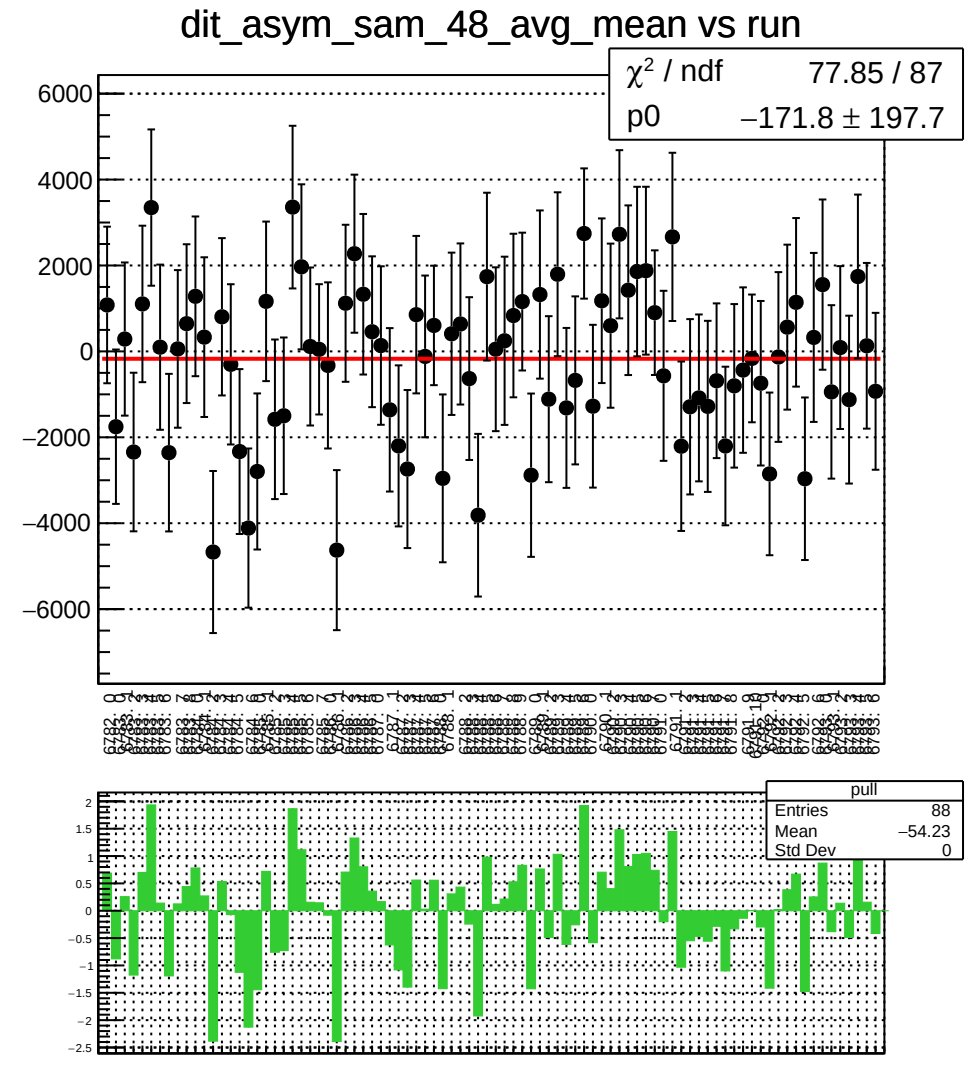

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 85.02 / 87
p0 −97.83 ± 181.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 265.3
Std Dev 0
2
1
0
−1
−2

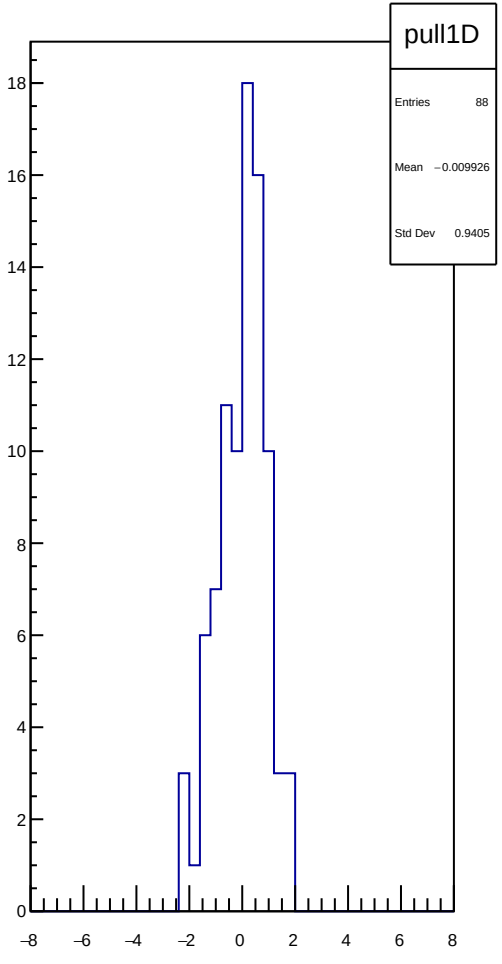

pull1D
Entries 88
Mean −0.008404
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

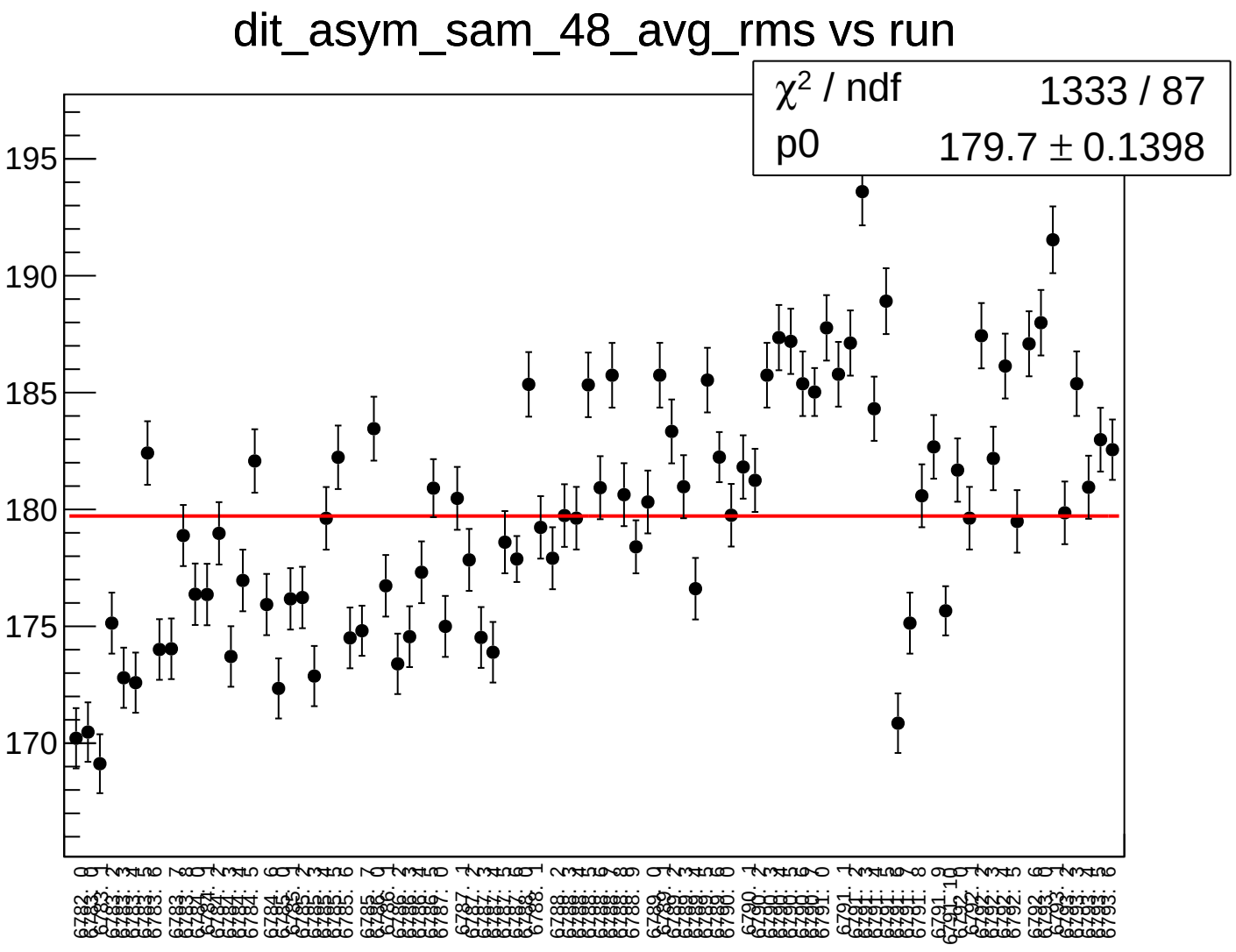

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 2197 / 87
p0 164.9 ± 0.1282
180
175
170
165
160
155
150

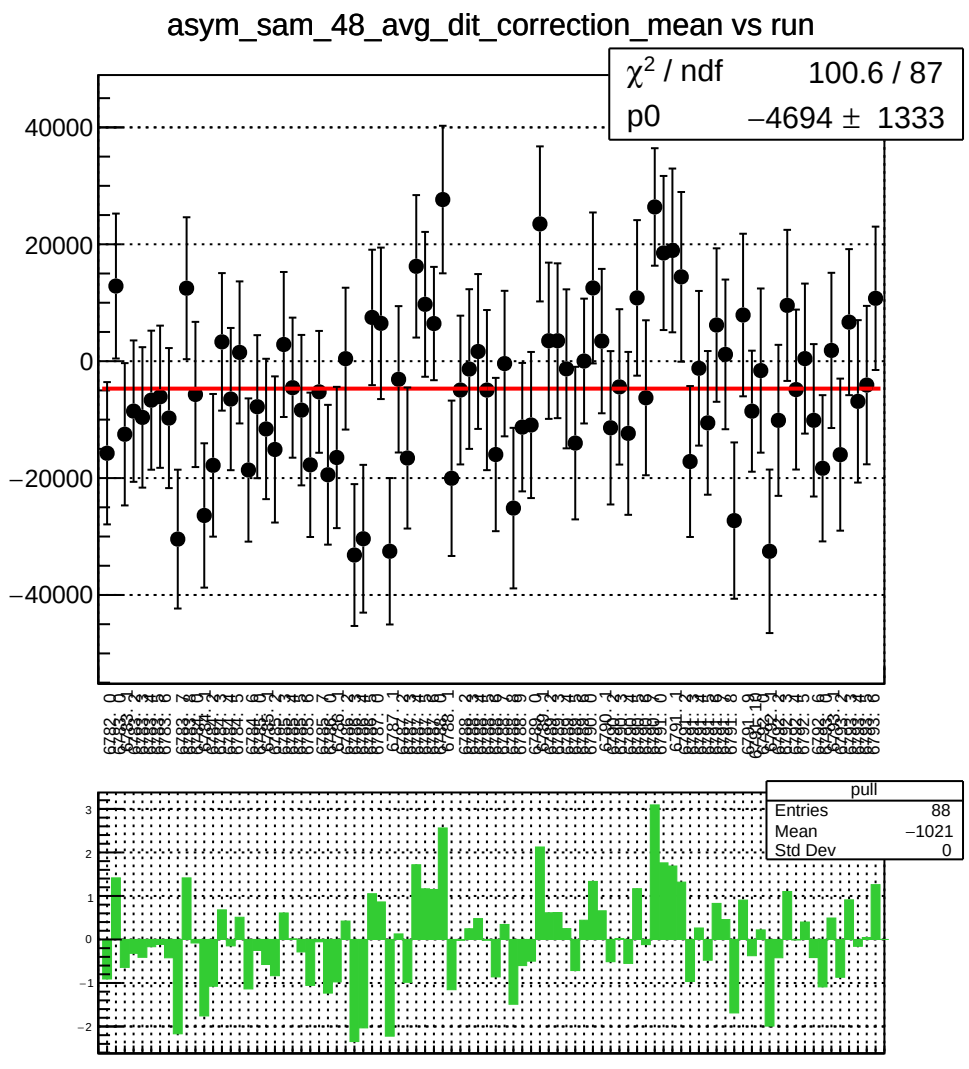

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.78 / 87
p0 −4666 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −1651
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002948
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

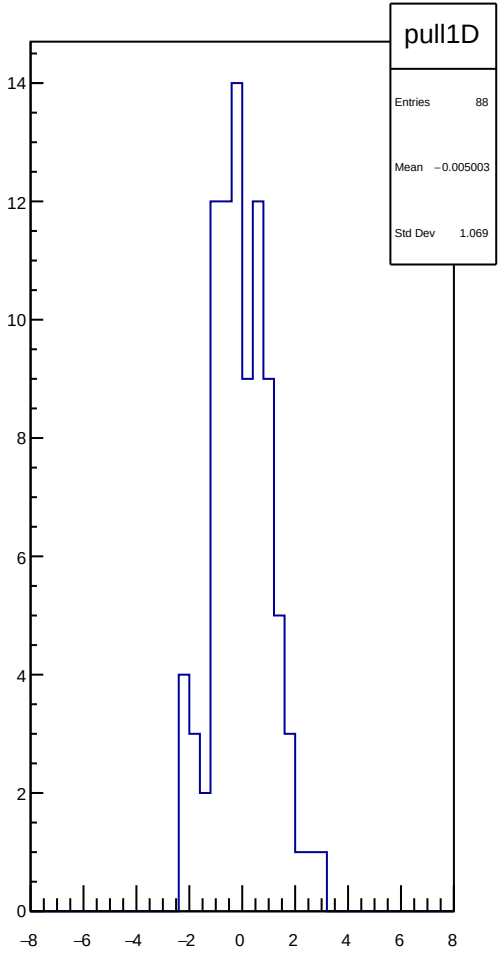

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 4684 / 87
p0 1193 ± 0.9286
1350
1300
1250
1200
1150
1100
1050

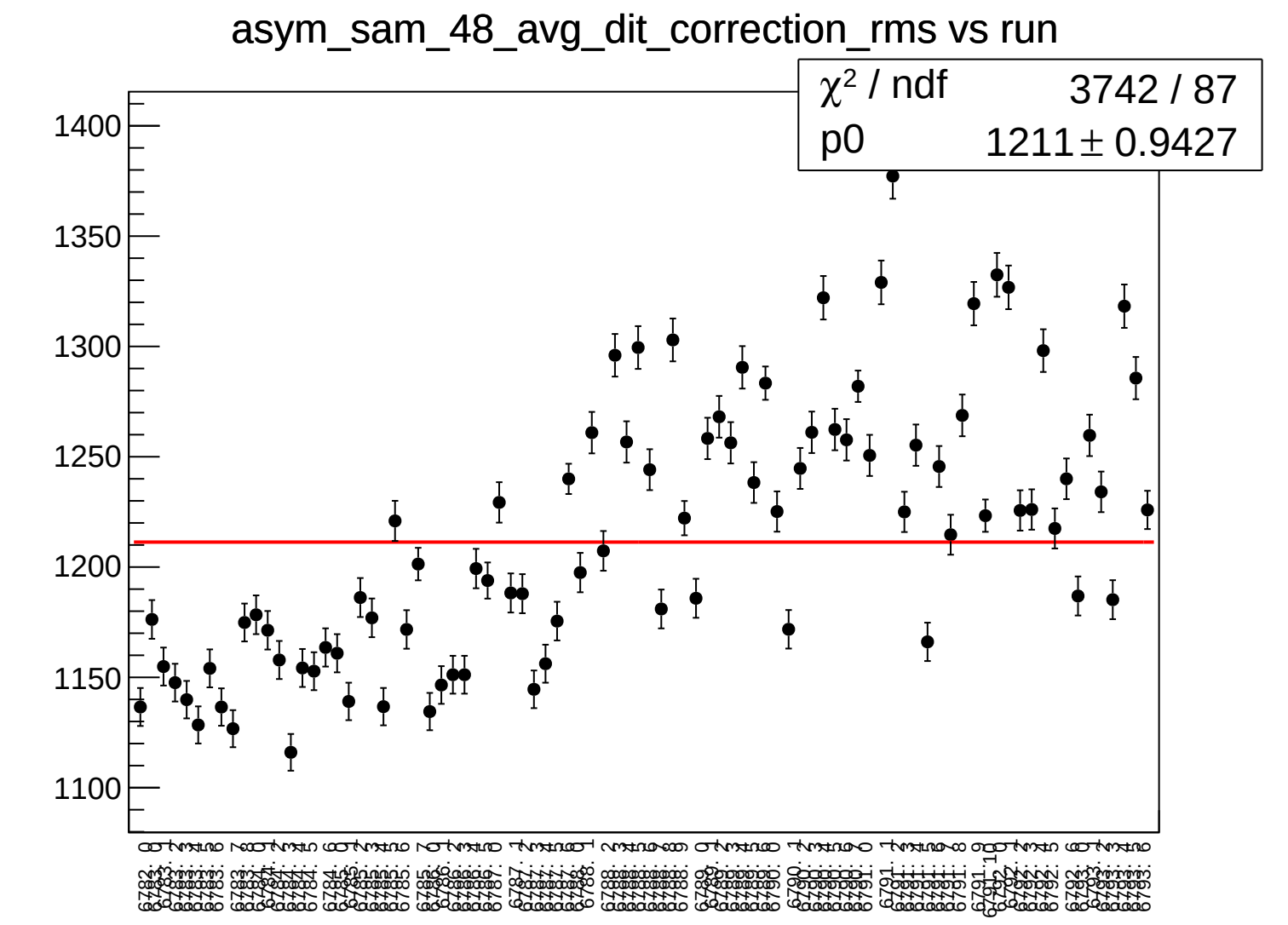

dit_asym_sam_48_avg_mean vs run
χ² / ndf 77.85 / 87
p0 −171.8 ± 197.7
pull
Entries 88
Mean −54.23
Std Dev 0

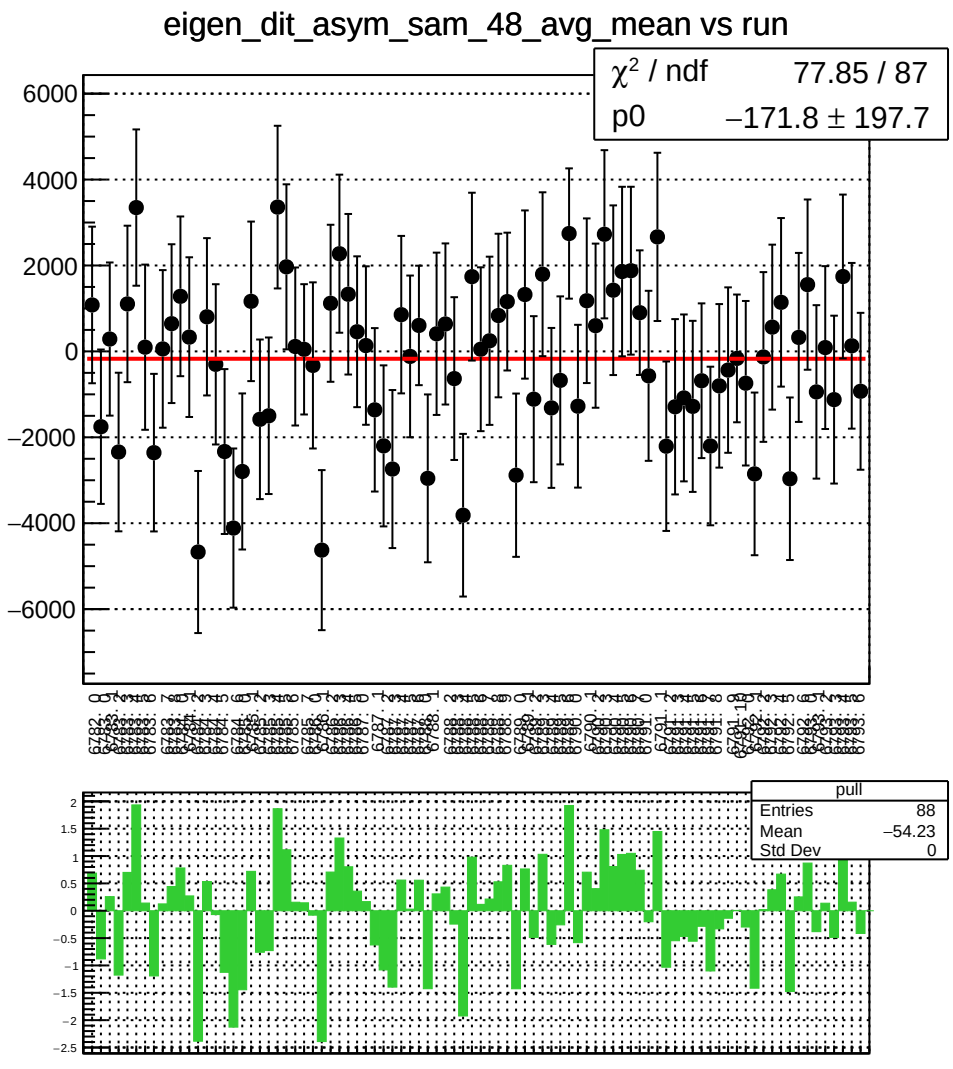

pull1D
Entries 88
Mean −0.009926
Std Dev 0.9405

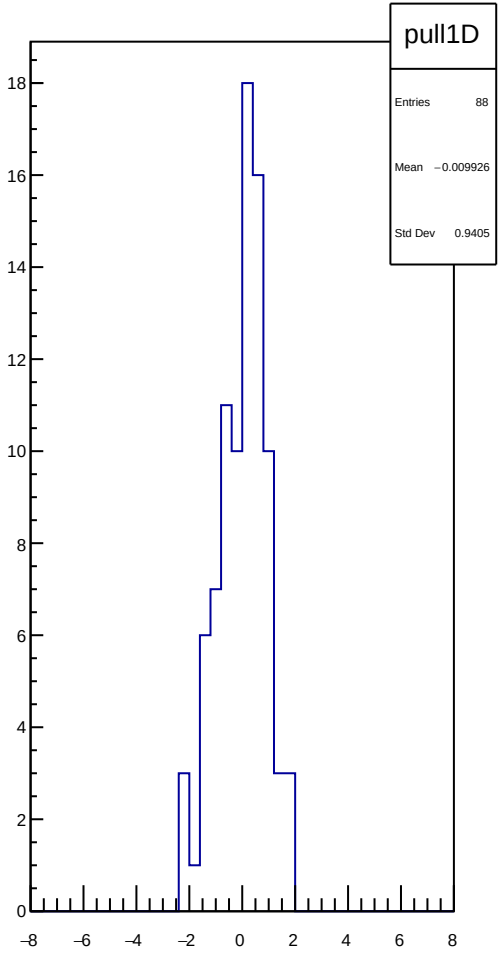

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1333 / 87
p0 179.7 ± 0.1398
195
190
185
180
175
170

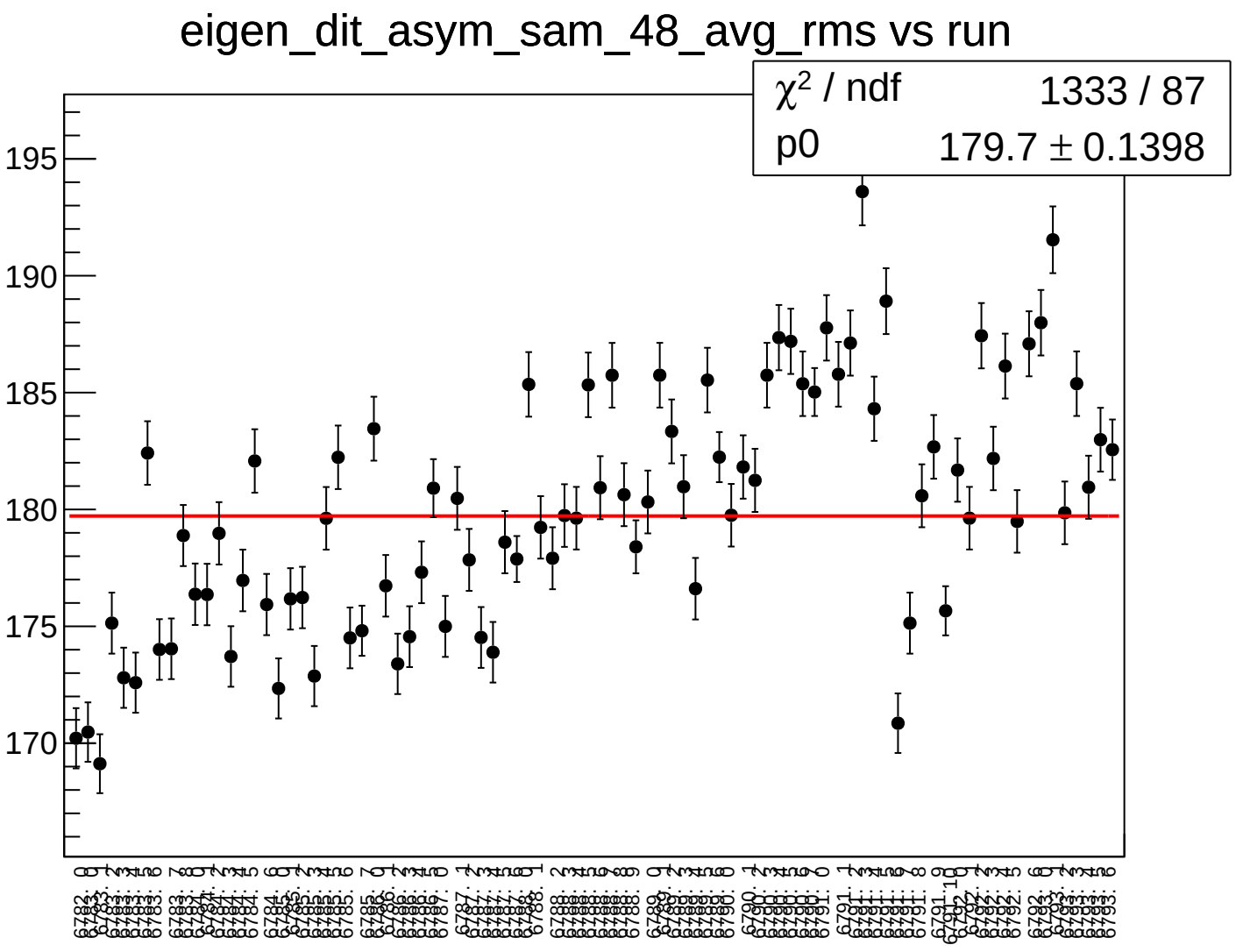

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 100.6 / 87
p0 −4694 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −1021
Std Dev 0
3
2
1
0
−1
−2

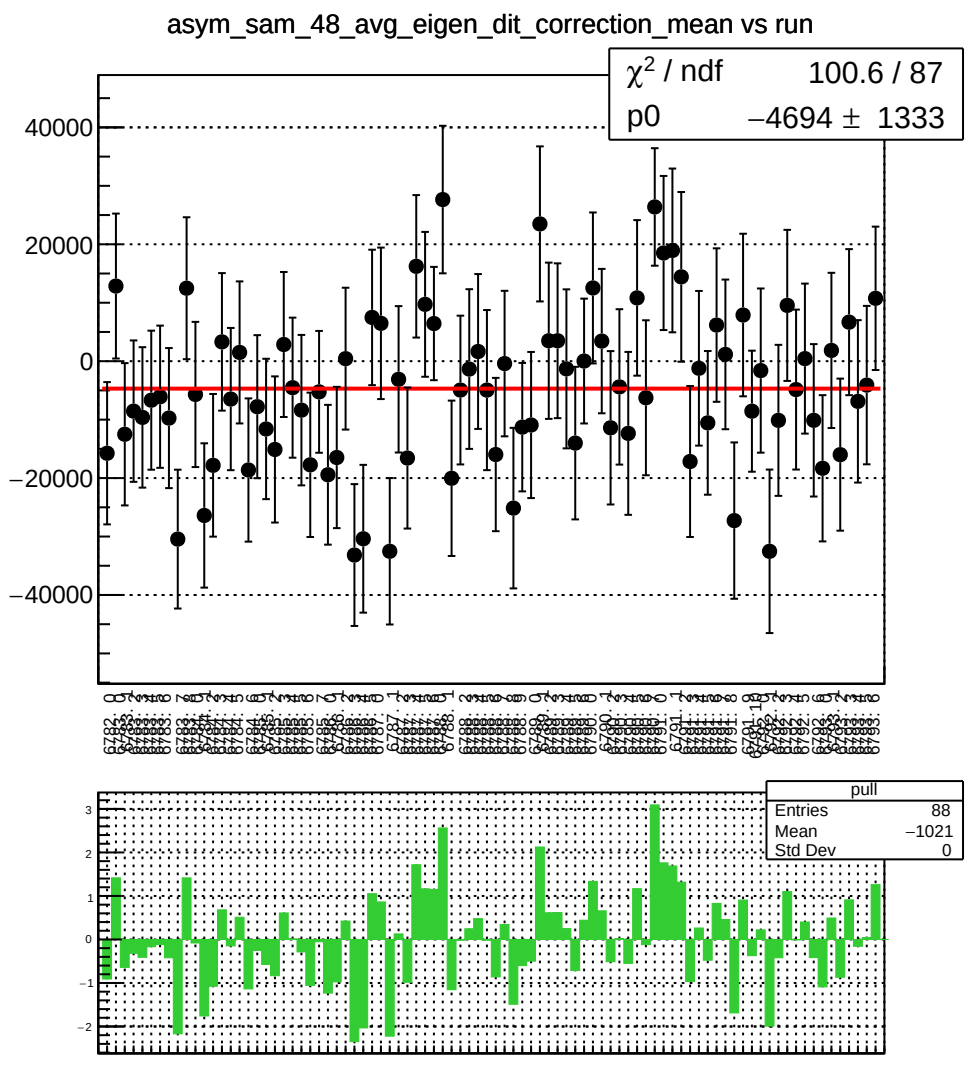

pull1D
Entries 88
Mean −0.005003
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

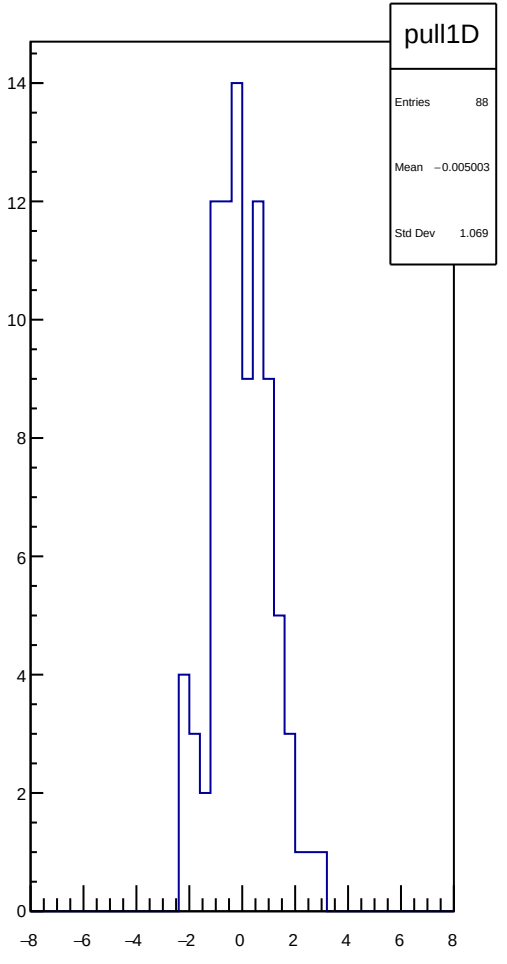

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 3742 / 87
p0 1211 ± 0.9427
1400
1350
1300
1250
1200
1150
1100

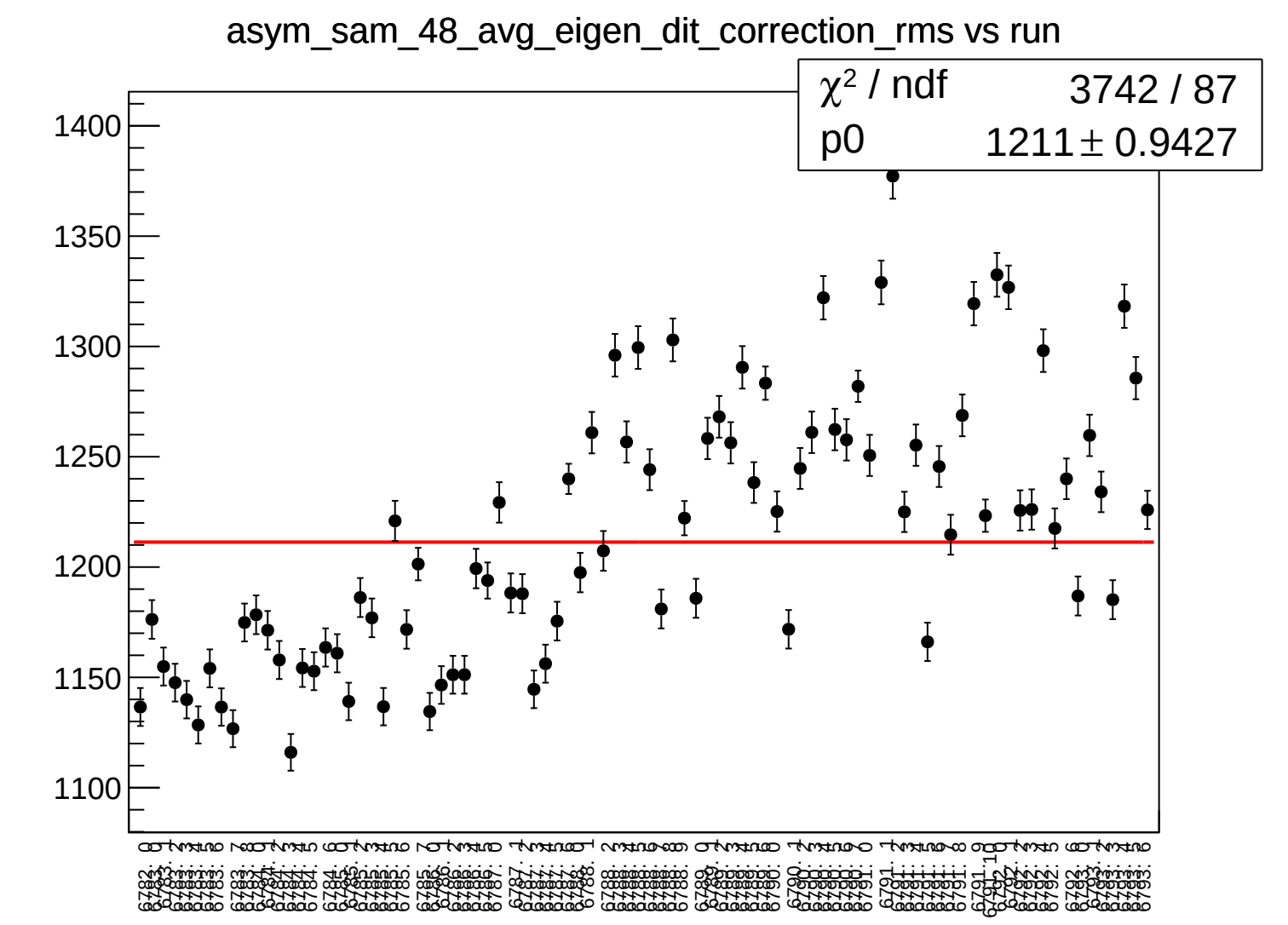

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 77.85 / 87
p0 −171.8 ± 197.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −54.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

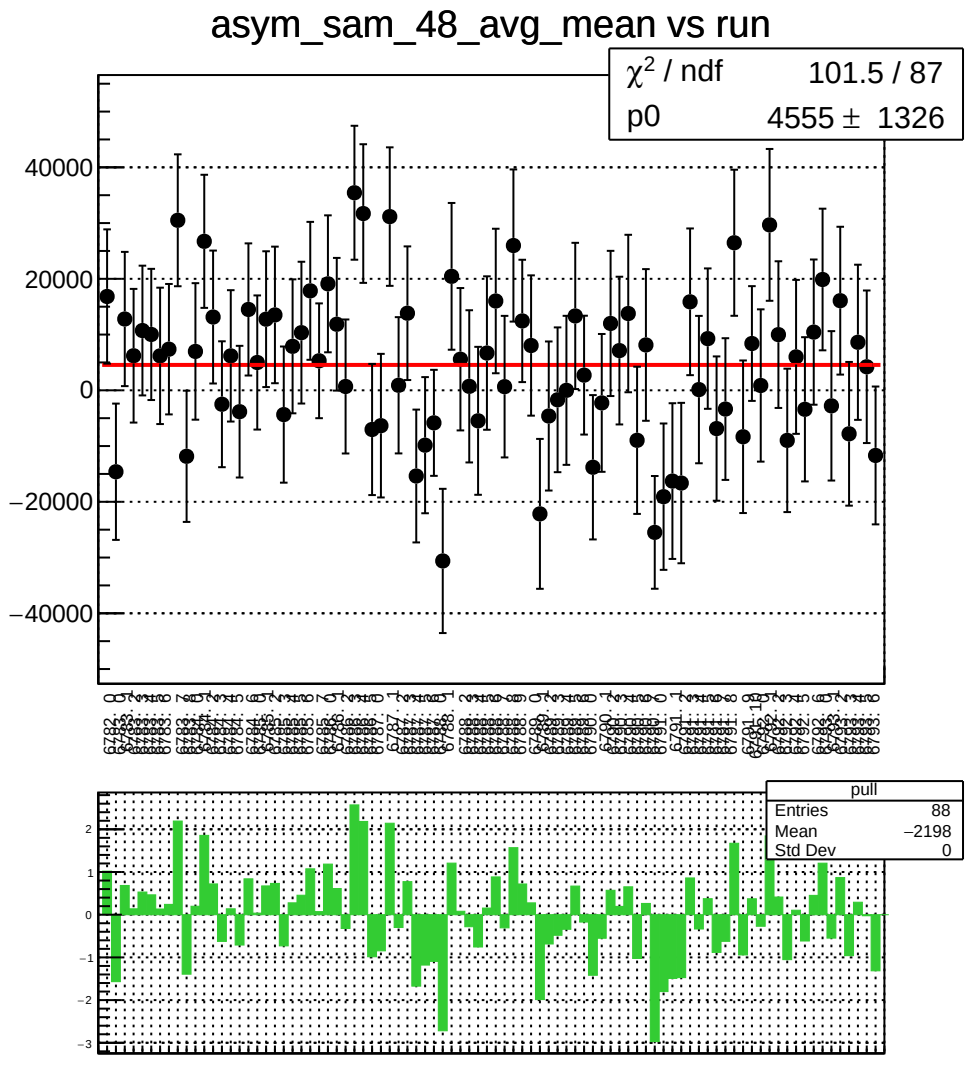

pull1D
Entries 88
Mean −0.009926
Std Dev 0.9405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

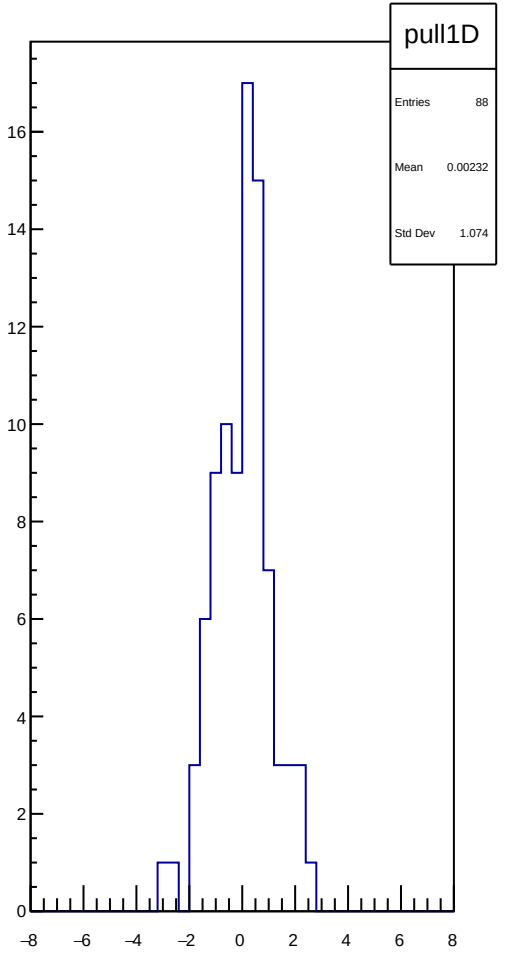

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1333 / 87
p0 179.7 ± 0.1398
195
190
185
180
175
170

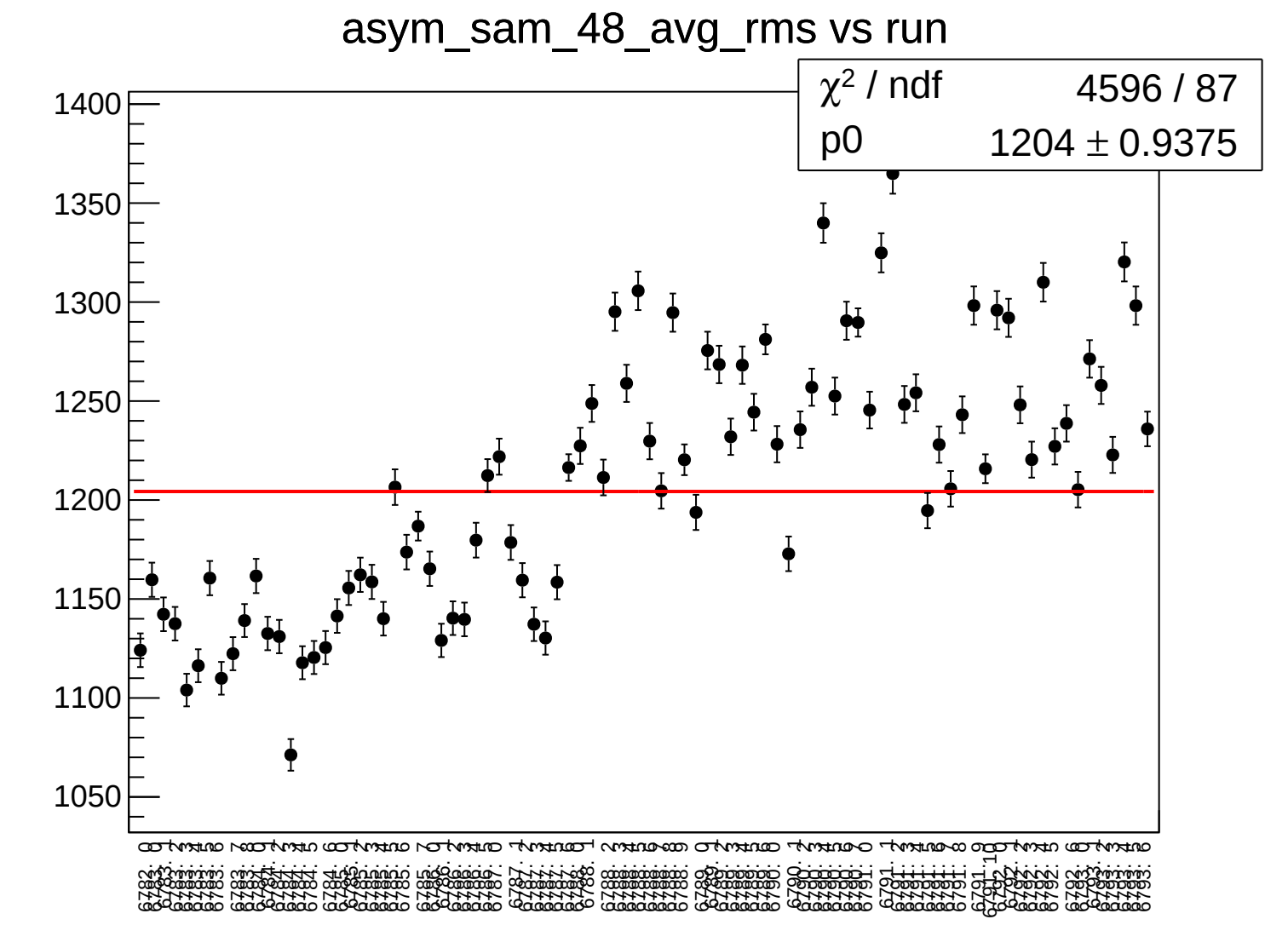

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.6 / 87
p0 −4694 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −1021
Std Dev 0
3
2
1
0
−1
−2

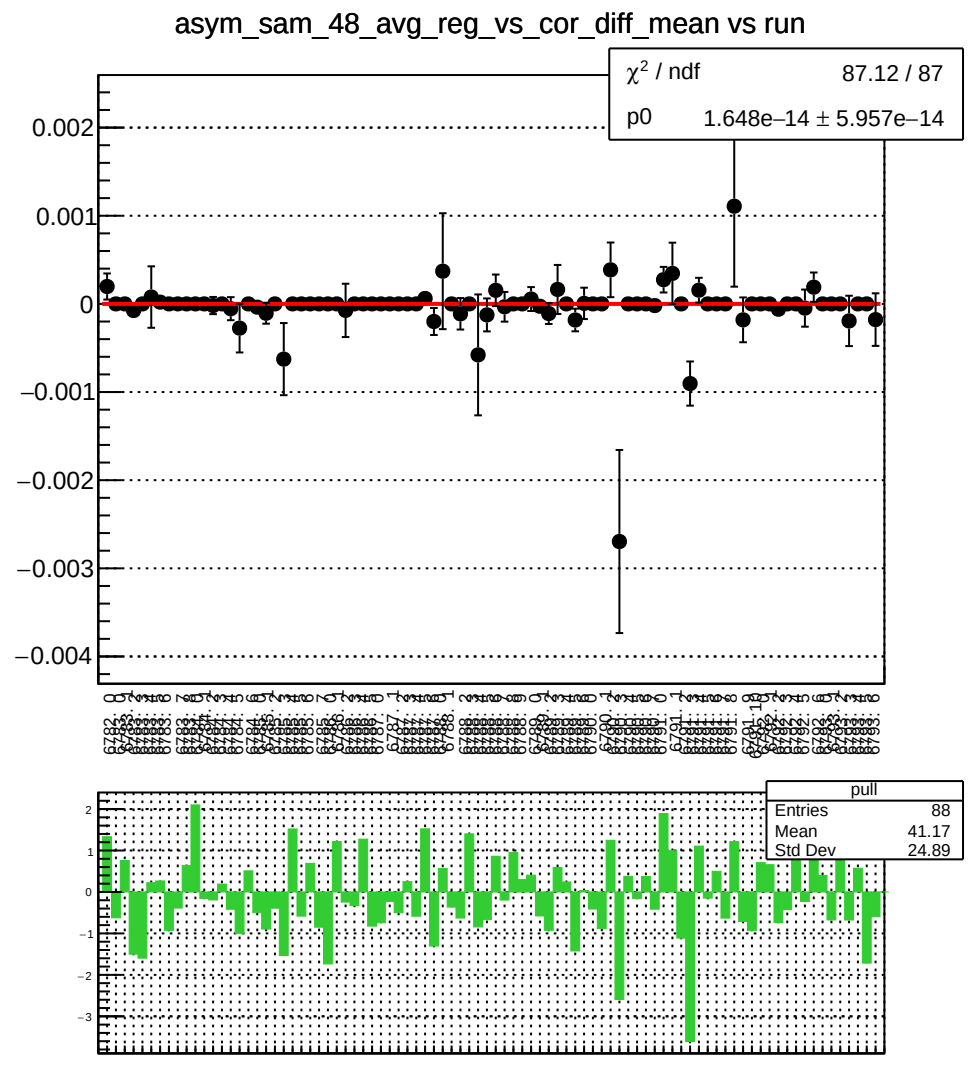

pull1D
Entries 88
Mean −0.005003
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

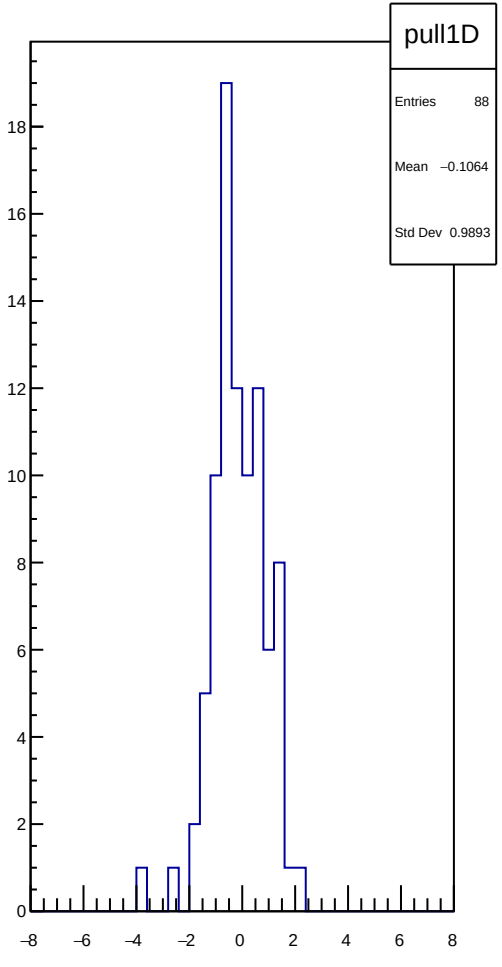

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 3742 / 87
p0 1211 ± 0.9427
1400
1350
1300
1250
1200
1150
1100

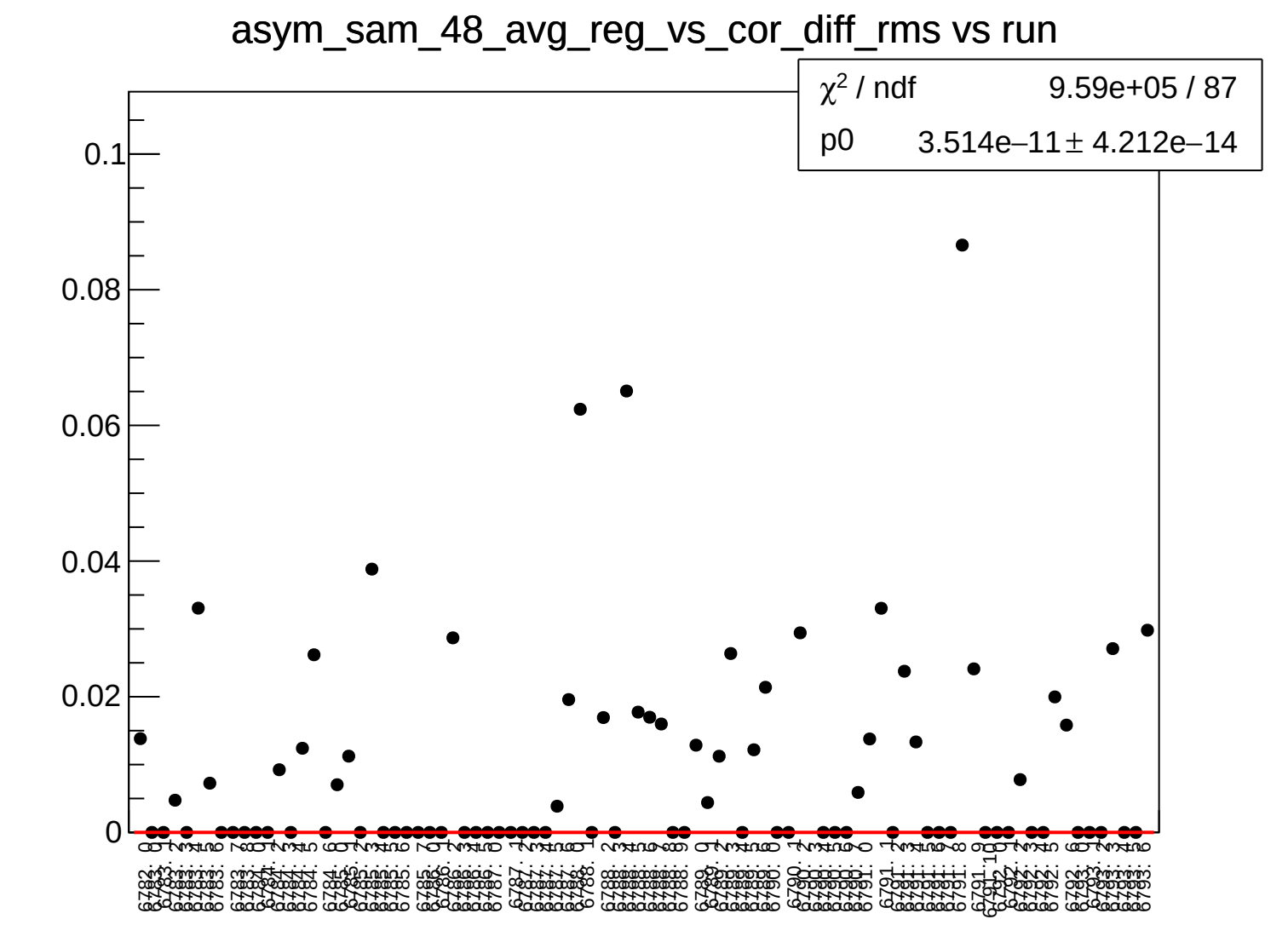

asym_sam_48_avg_mean vs run
χ² / ndf 101.5 / 87
p0 4555 ± 1326
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −2198
Std Dev 0
2
1
0
−1
−2
−3

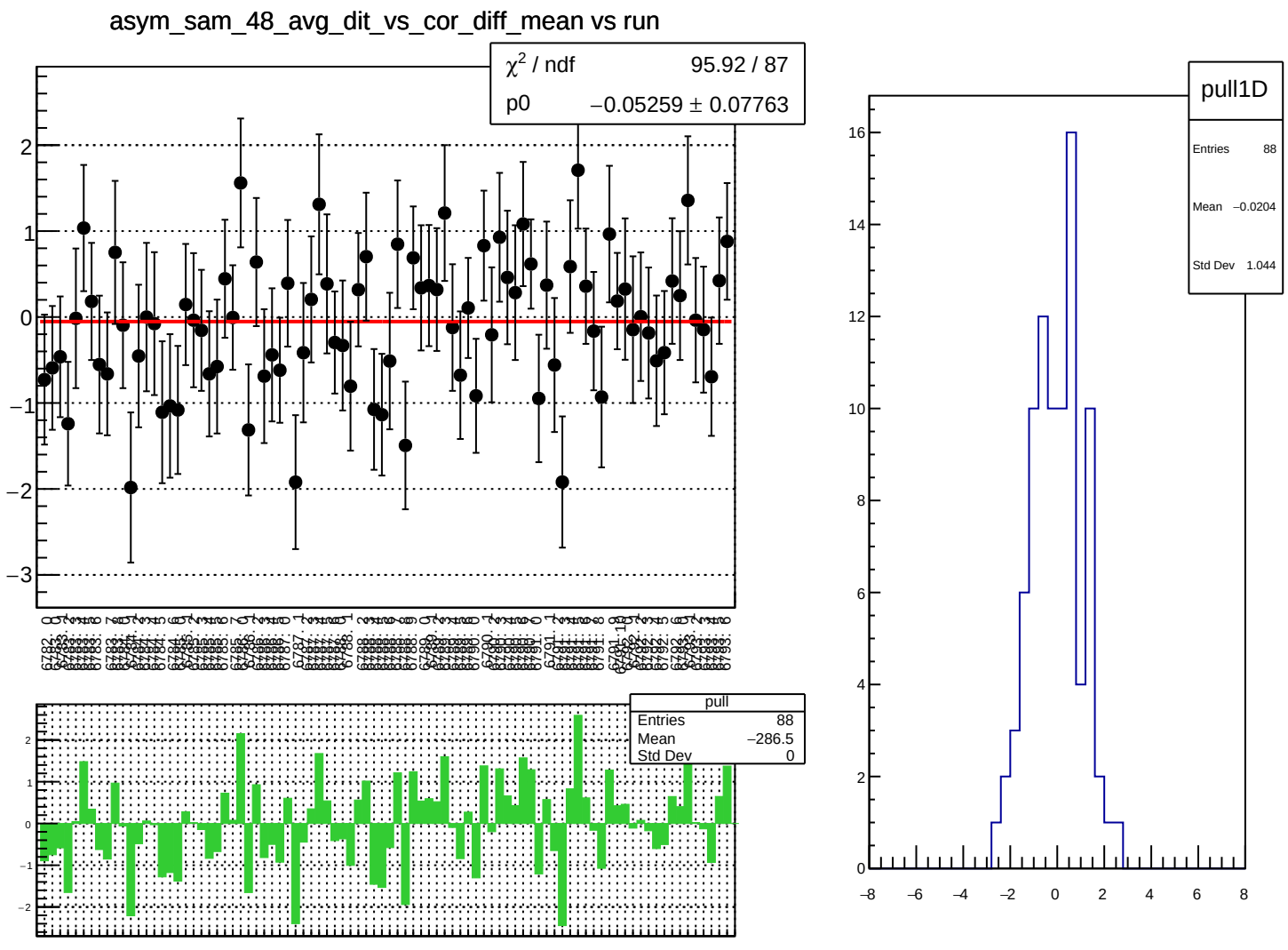

pull1D
Entries 88
Mean 0.00232
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

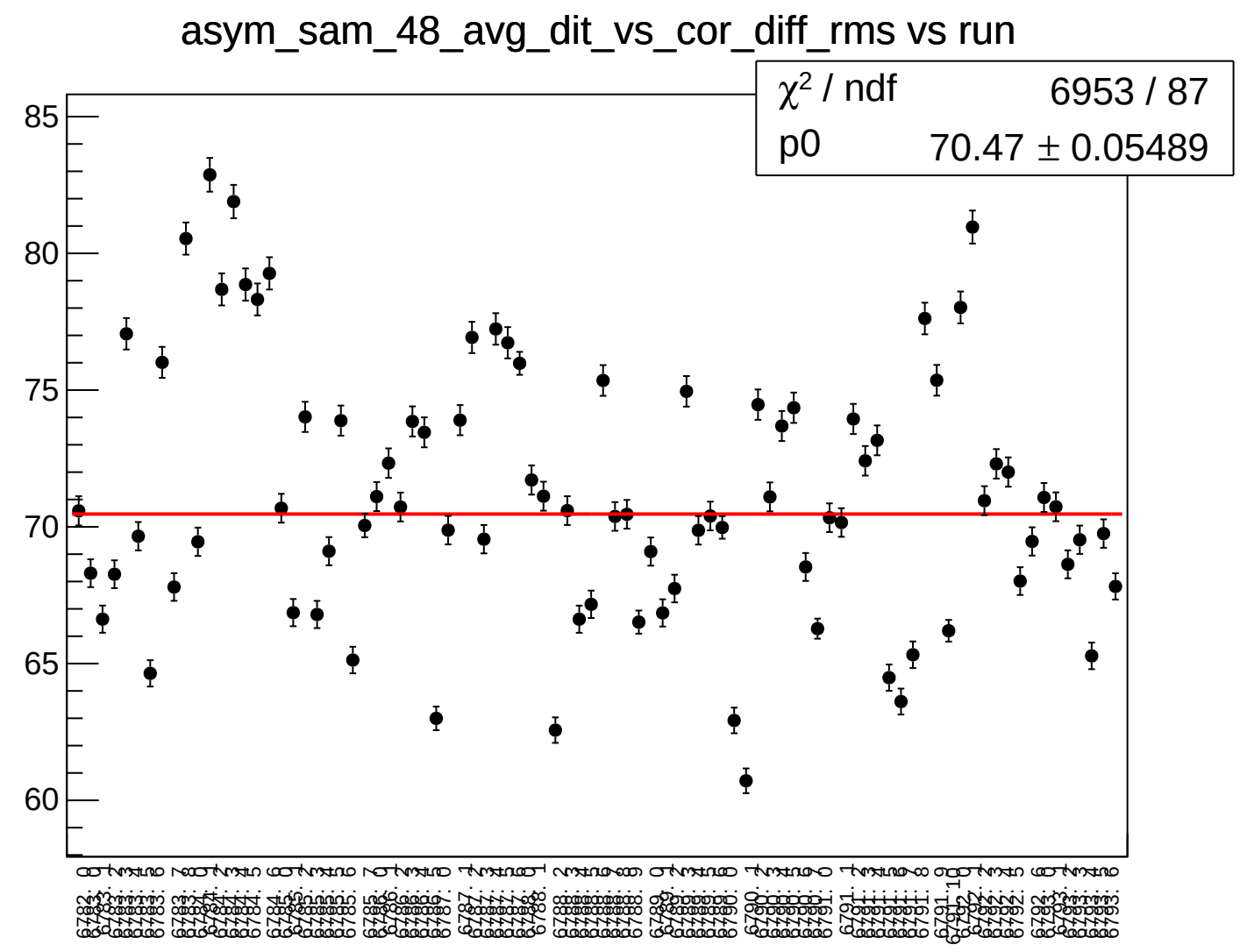

asym_sam_48_avg_rms vs run
χ² / ndf 4596 / 87
p0 1204 ± 0.9375
1400
1350
1300
1250
1200
1150
1100
1050

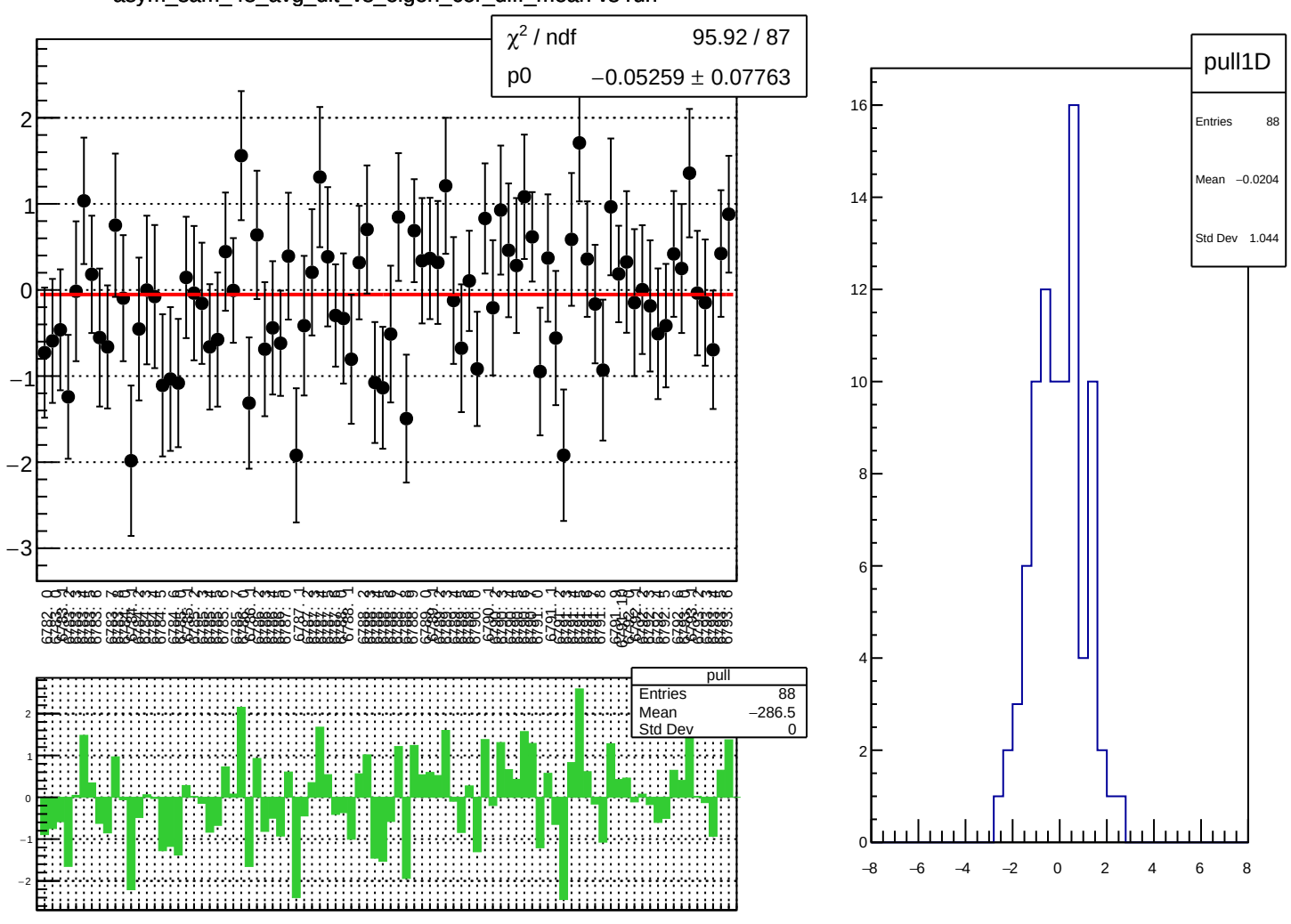

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.12 / 87
p0 1.648e−14 ± 5.957e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 88
Mean 41.17
Std Dev 24.89
2
1
0
−1
−2
−3

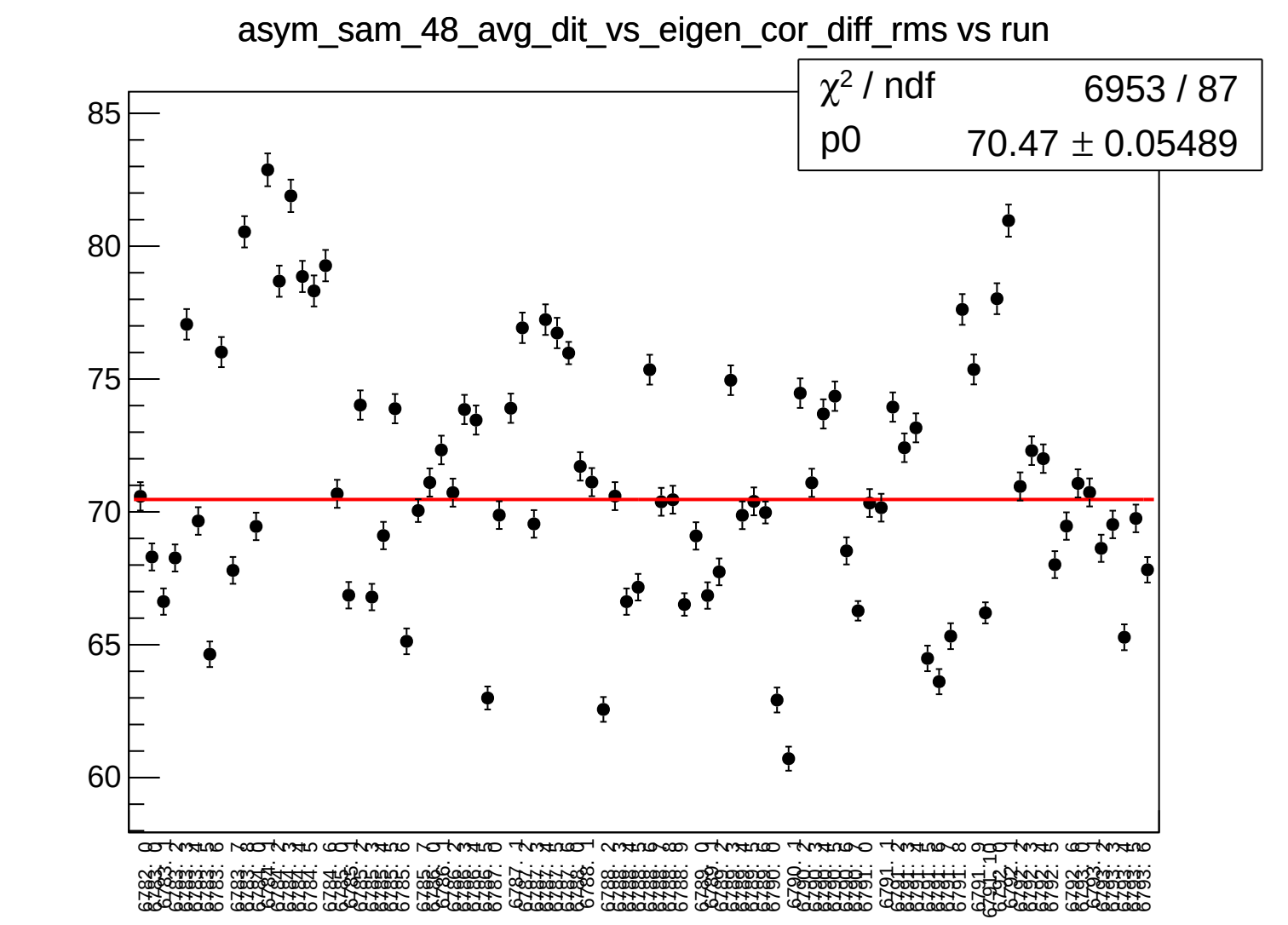

pull1D
Entries 88
Mean −0.1064
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

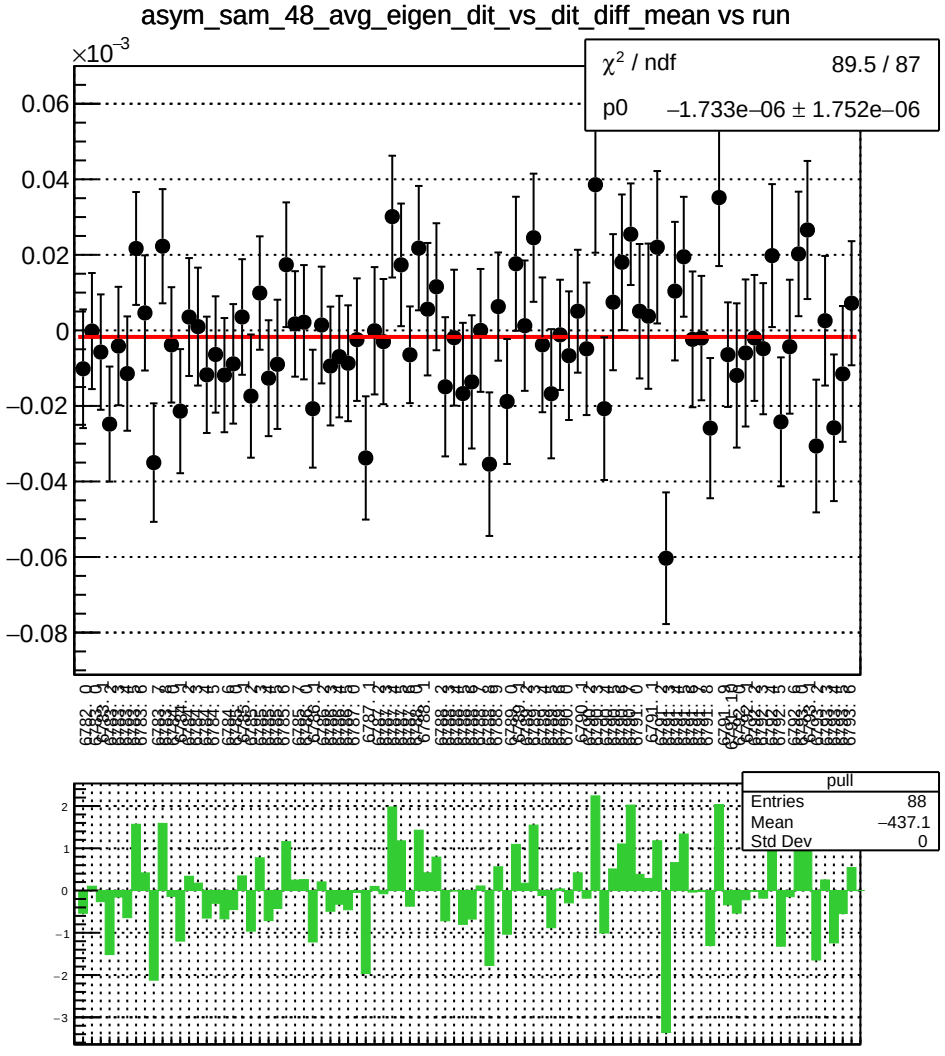

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.59e+05 / 87
p0 3.514e−11 ± 4.212e−14
0.1
0.08
0.06
0.04
0.02
0

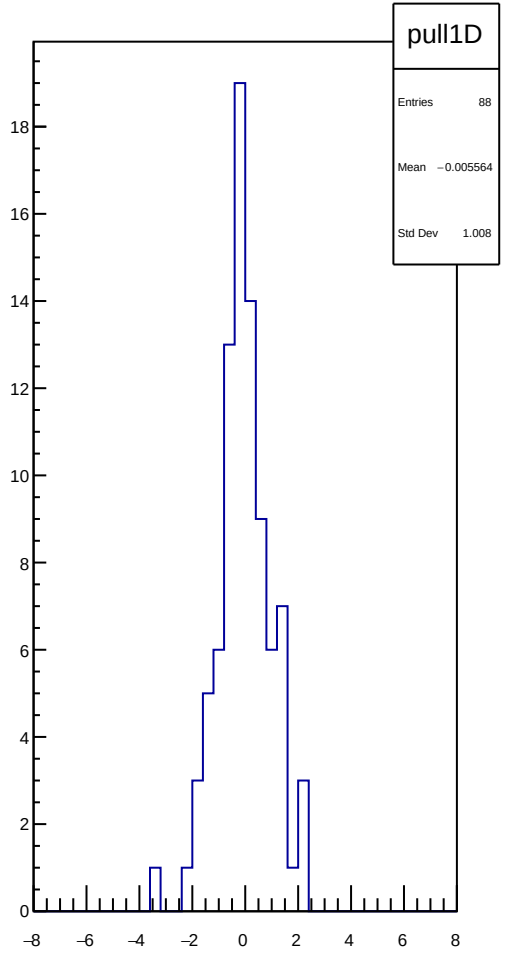

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.92 / 87
p0 −0.05259 ± 0.07763
pull
Entries 88
Mean −286.5
Std Dev 0
pull1D
Entries 88
Mean −0.0204
Std Dev 1.044

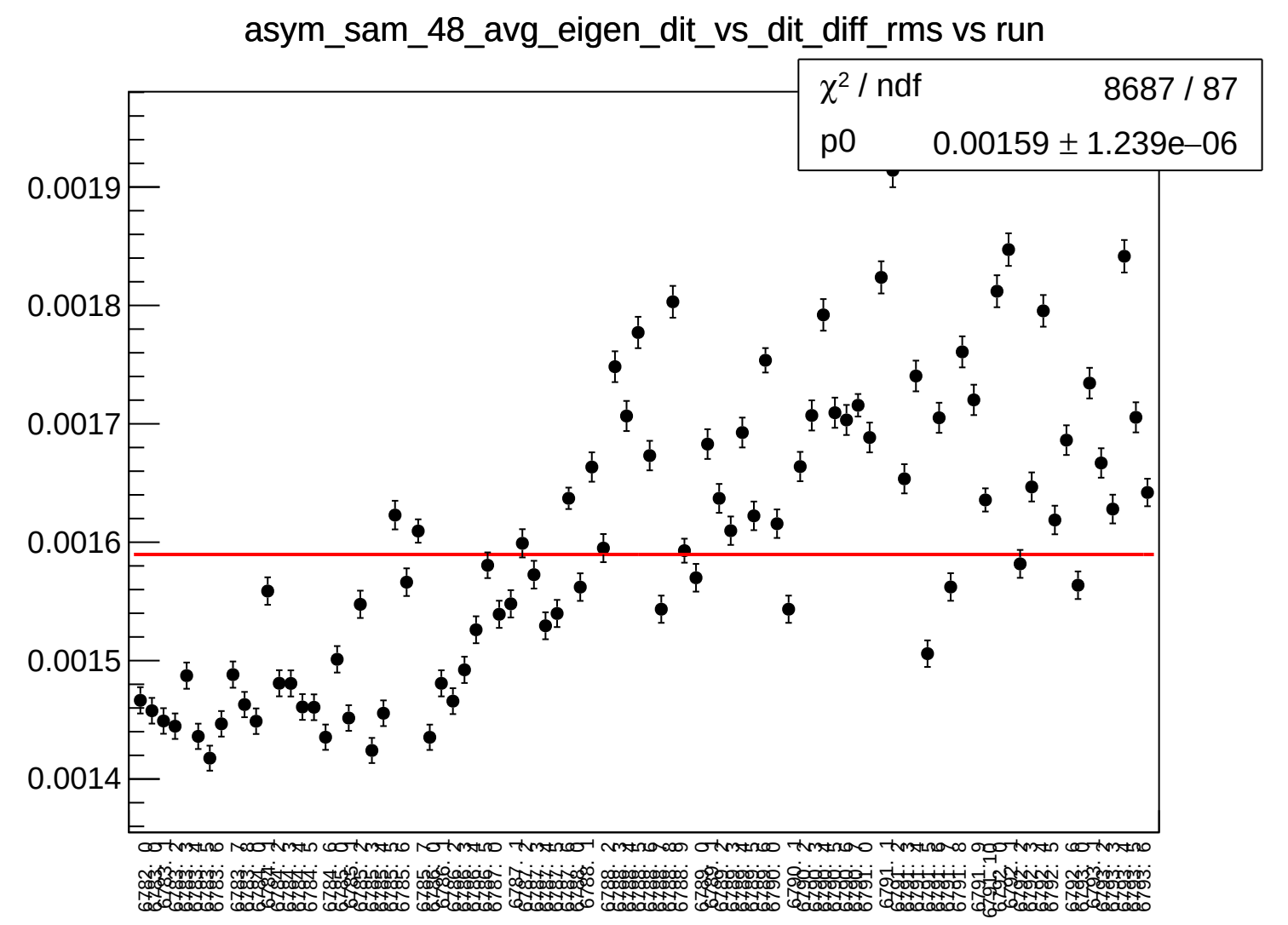

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6953 / 87
p0 70.47 ± 0.05489
85
80
75
70
65
60

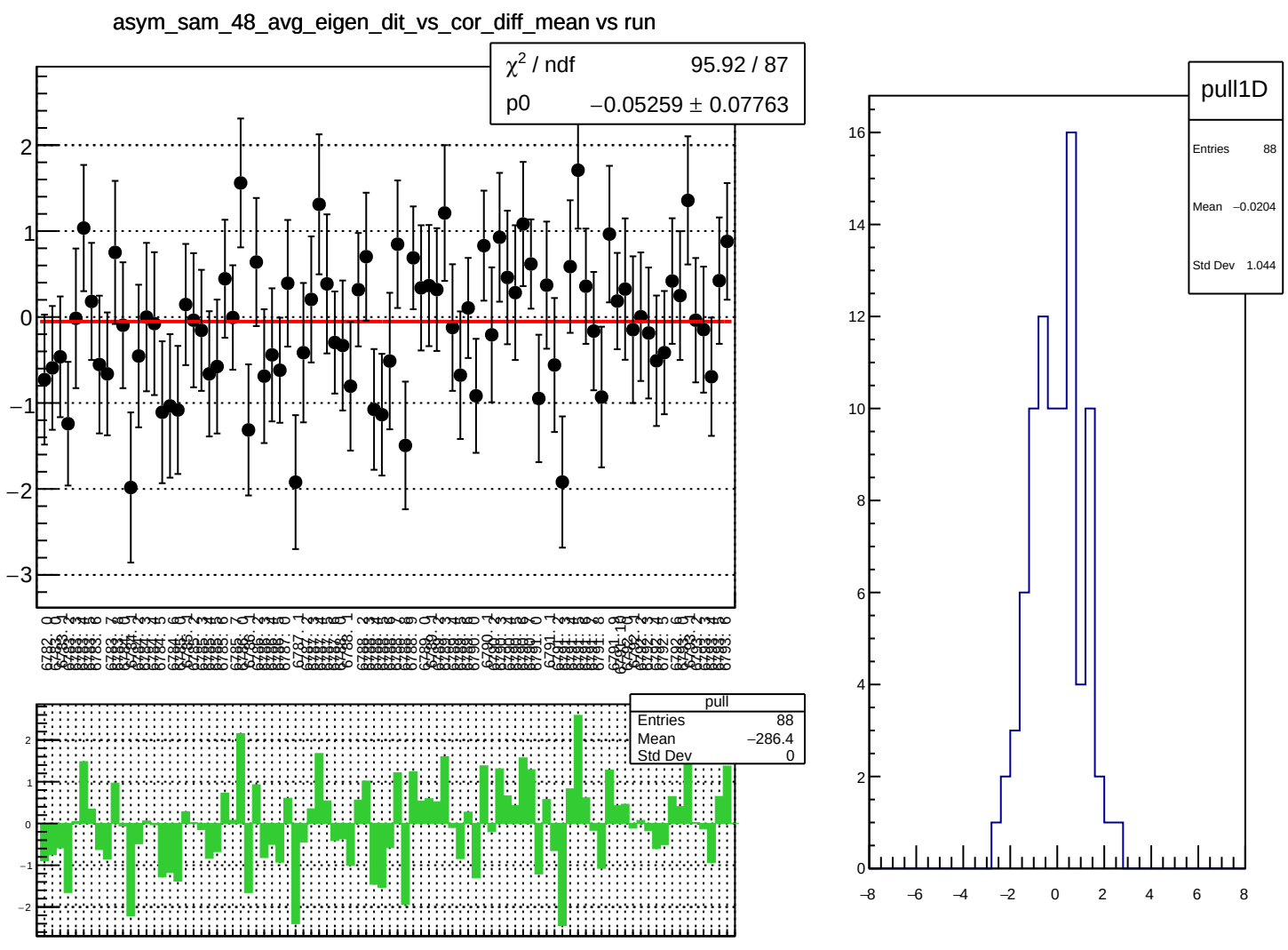

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.92 / 87
p0 −0.05259 ± 0.07763
pull
Entries 88
Mean −286.5
Std Dev 0
pull1D
Entries 88
Mean −0.0204
Std Dev 1.044

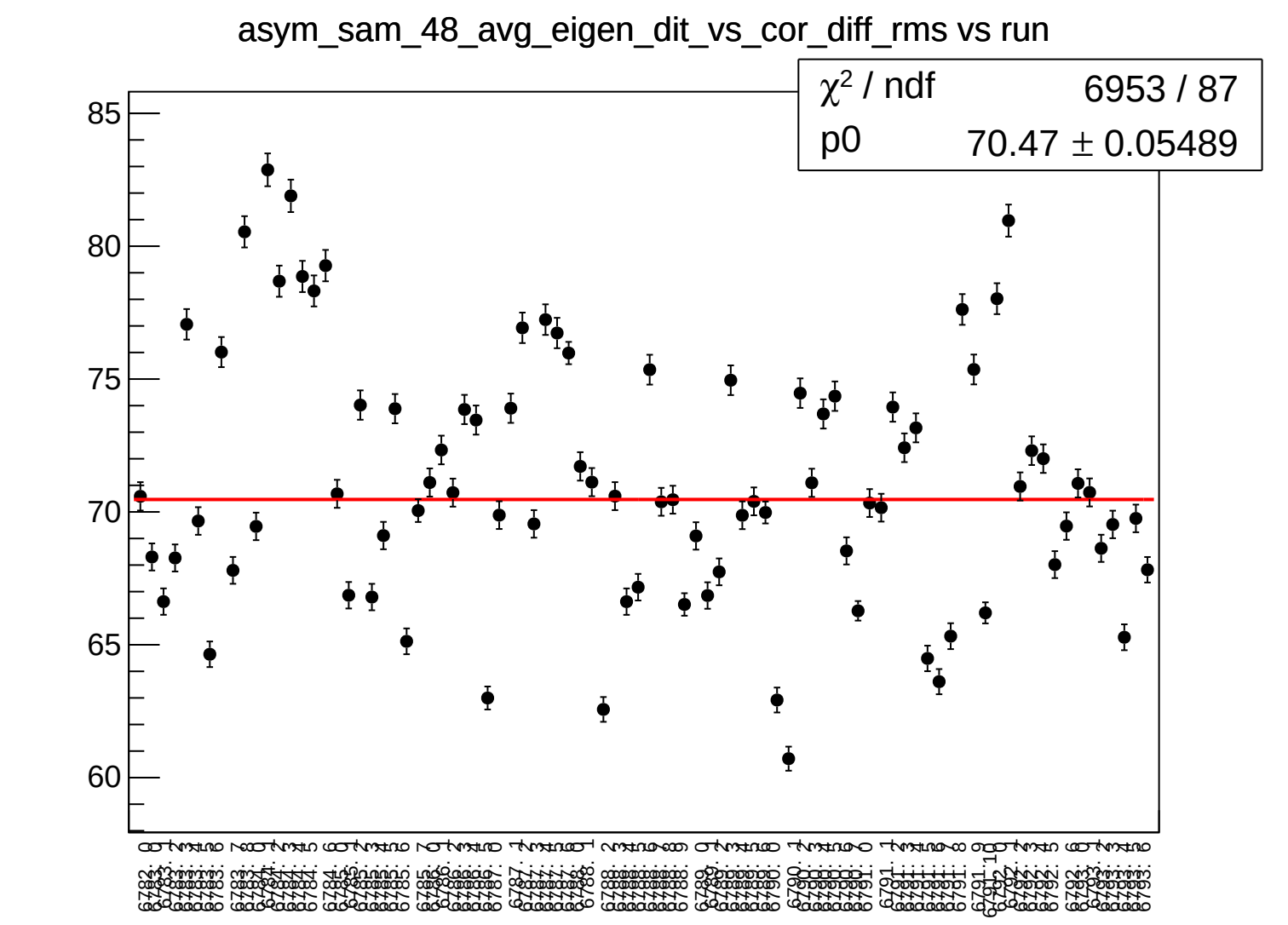

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6953 / 87
p0 70.47 ± 0.05489
85
80
75
70
65
60

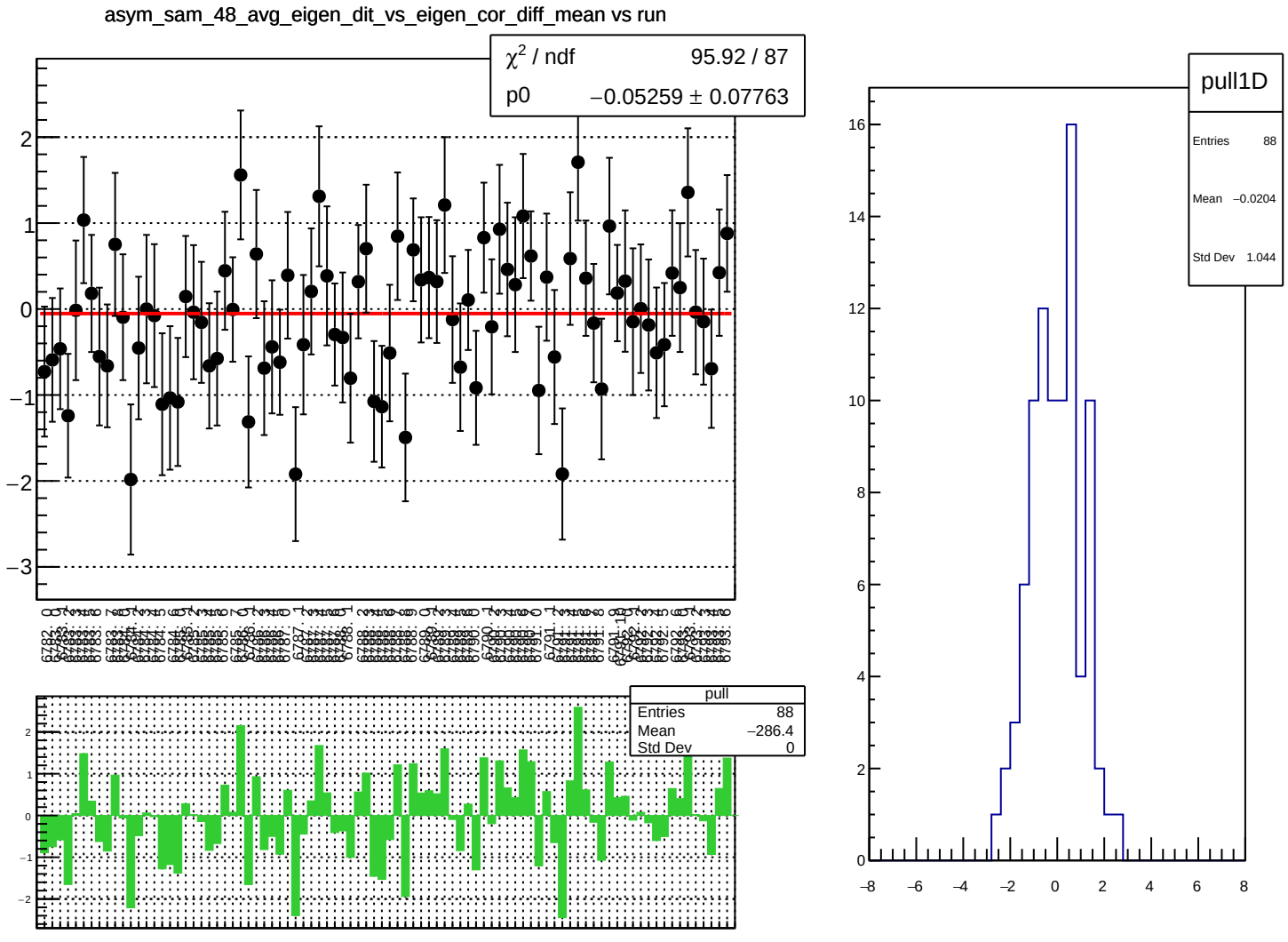

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.5 / 87
p0 −1.733e−06 ± 1.752e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean −437.1
Std Dev 0
2
1
0
−1
−2
−3

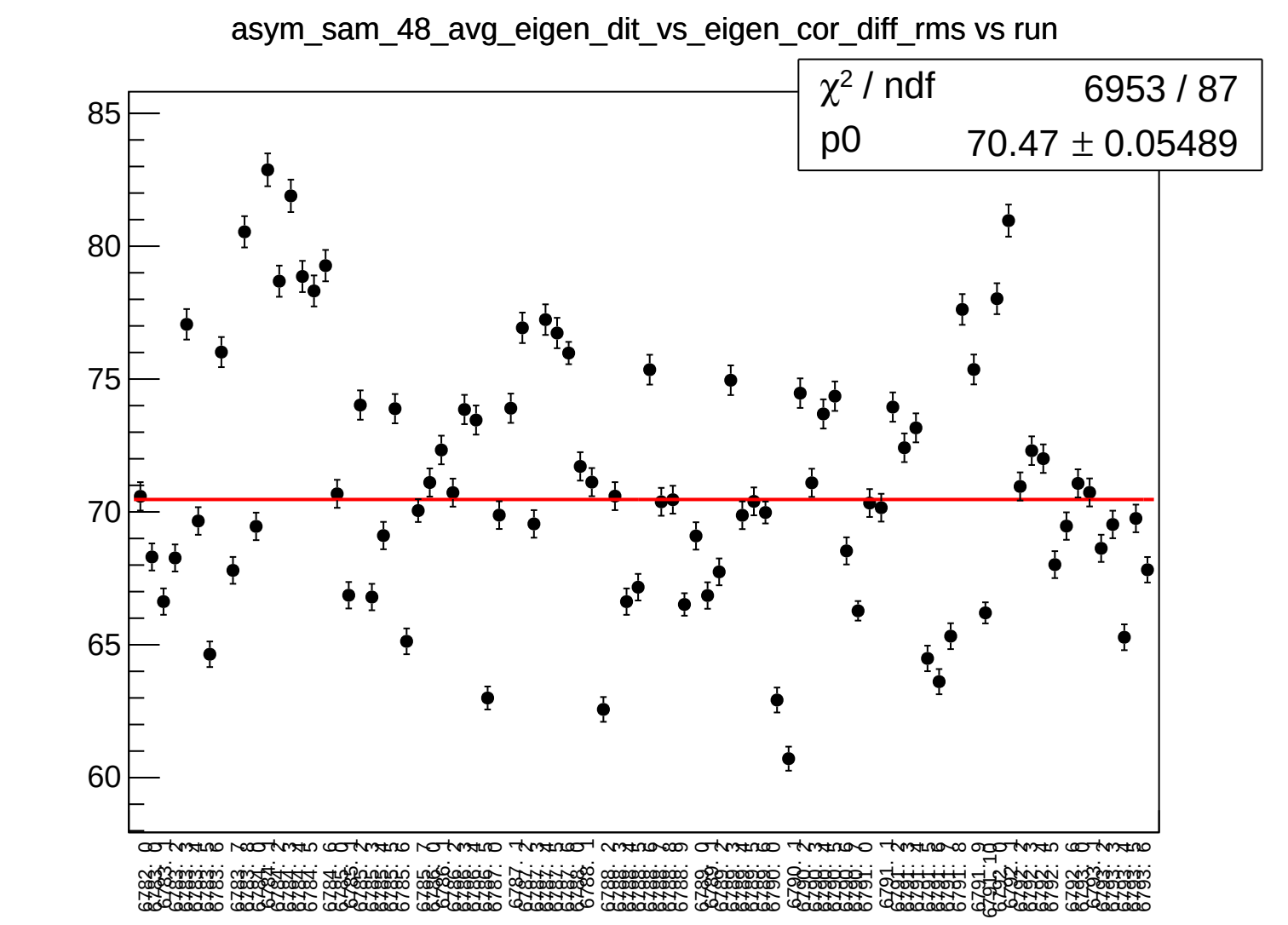

pull1D
Entries 88
Mean −0.005564
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

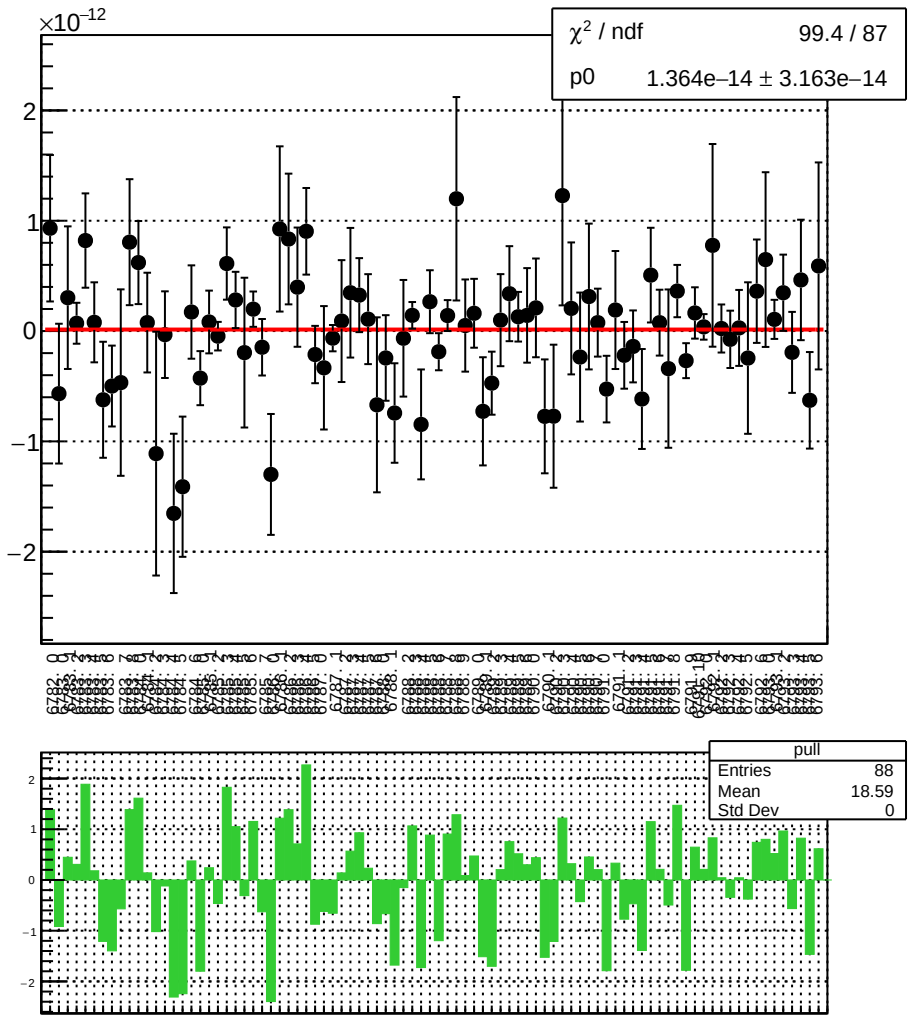

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8687 / 87
p0 0.00159 ± 1.239e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

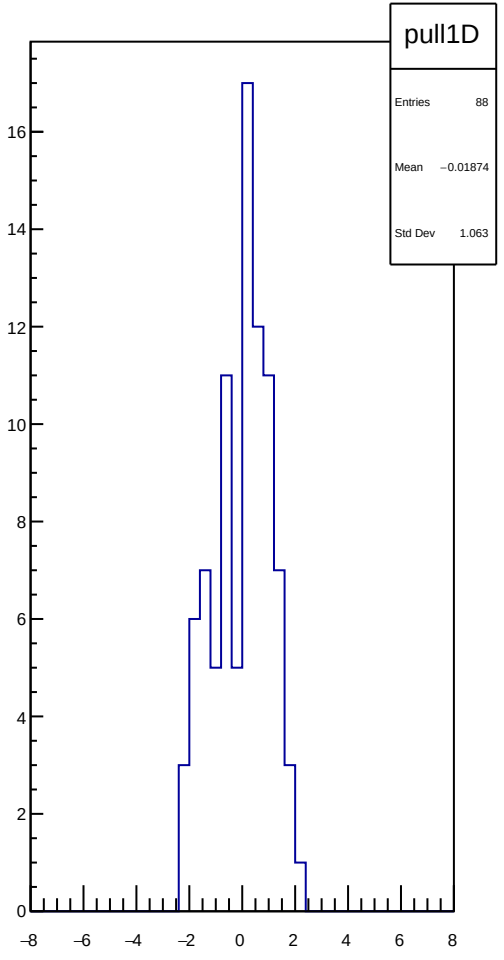

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.92 / 87
p0 −0.05259 ± 0.07763
pull
Entries 88
Mean −286.4
Std Dev 0
pull1D
Entries 88
Mean −0.0204
Std Dev 1.044

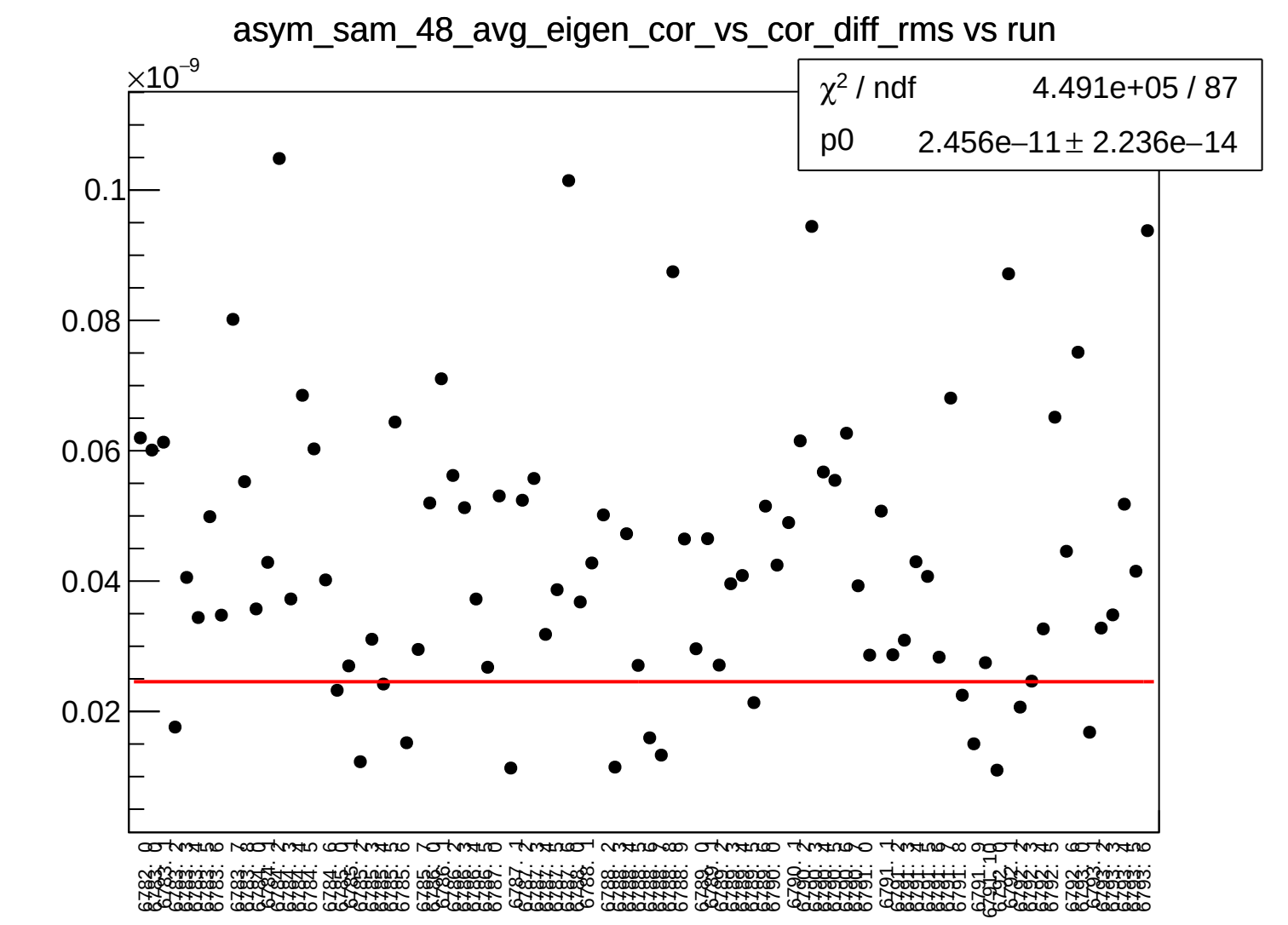

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6953 / 87
p0 70.47 ± 0.05489
85
80
75
70
65
60

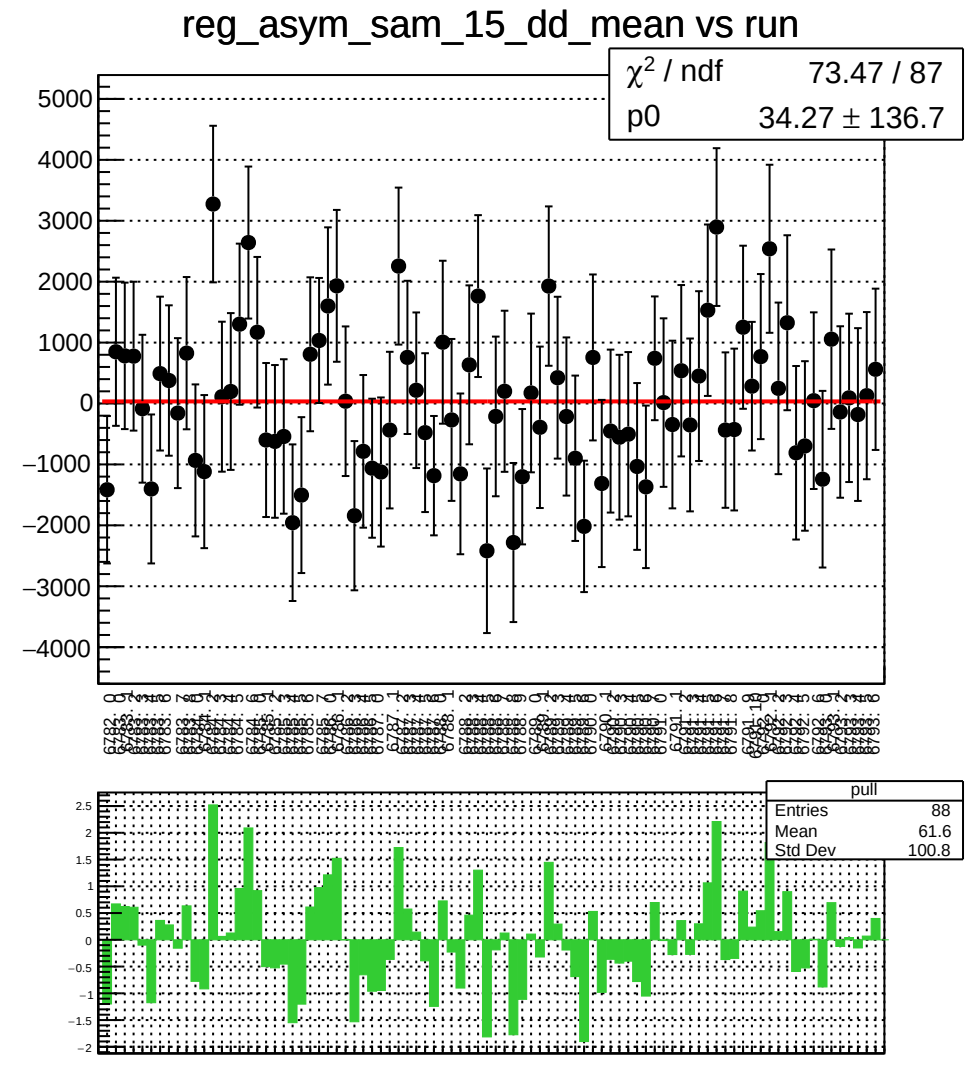

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.92 / 87
p0 −0.05259 ± 0.07763
pull
Entries 88
Mean −286.4
Std Dev 0
pull1D
Entries 88
Mean −0.0204
Std Dev 1.044

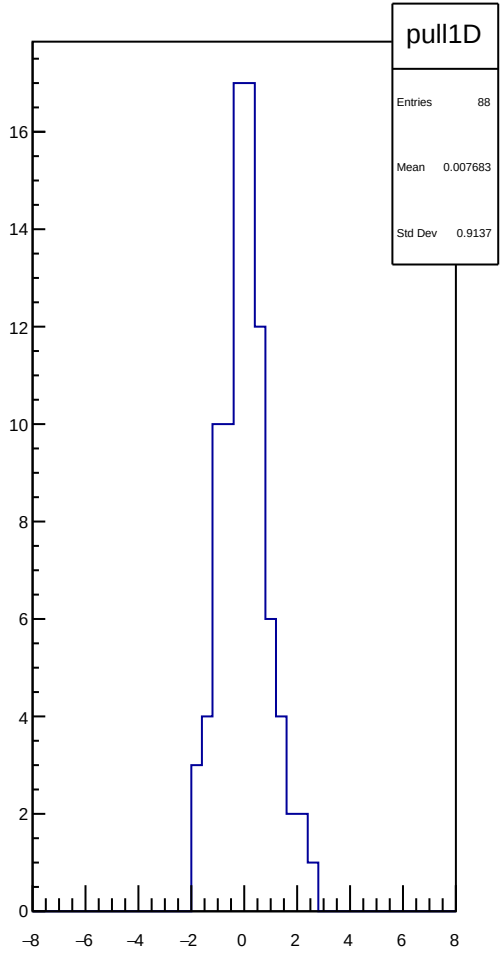

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6953 / 87
p0 70.47 ± 0.05489
85
80
75
70
65
60

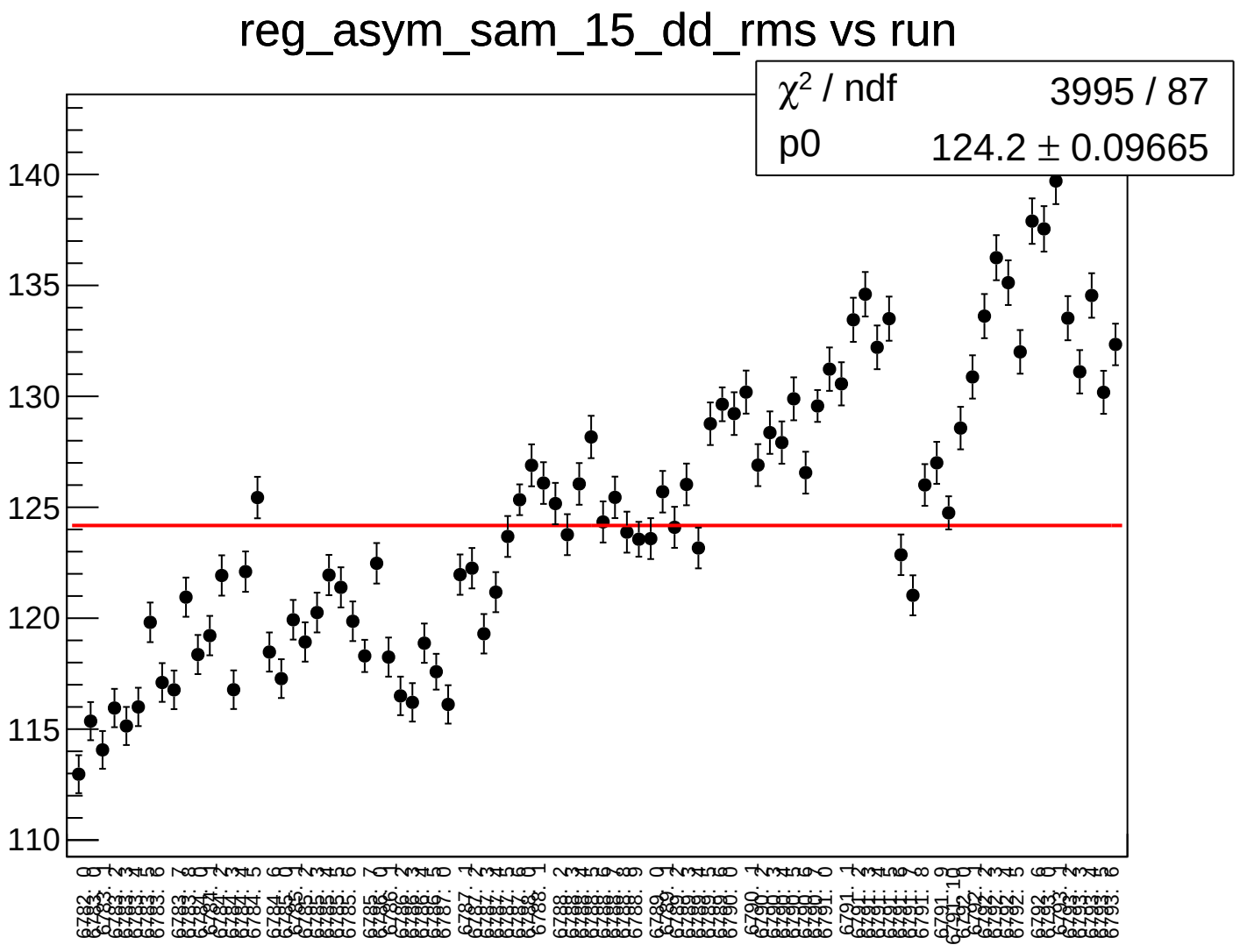

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.4 / 87
p0 1.364e−14 ± 3.163e−14
pull
Entries 88
Mean 18.59
Std Dev 0

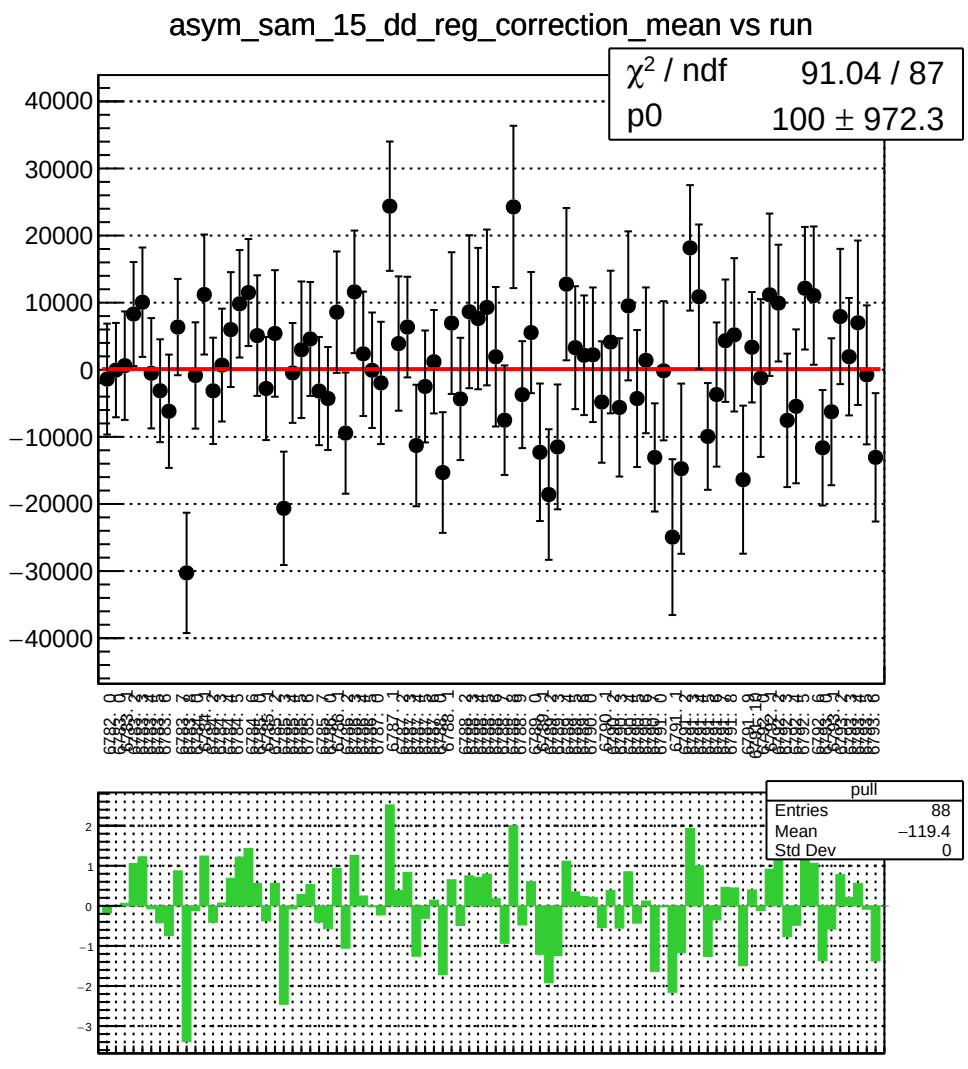

pull1D
Entries 88
Mean −0.01874
Std Dev 1.063

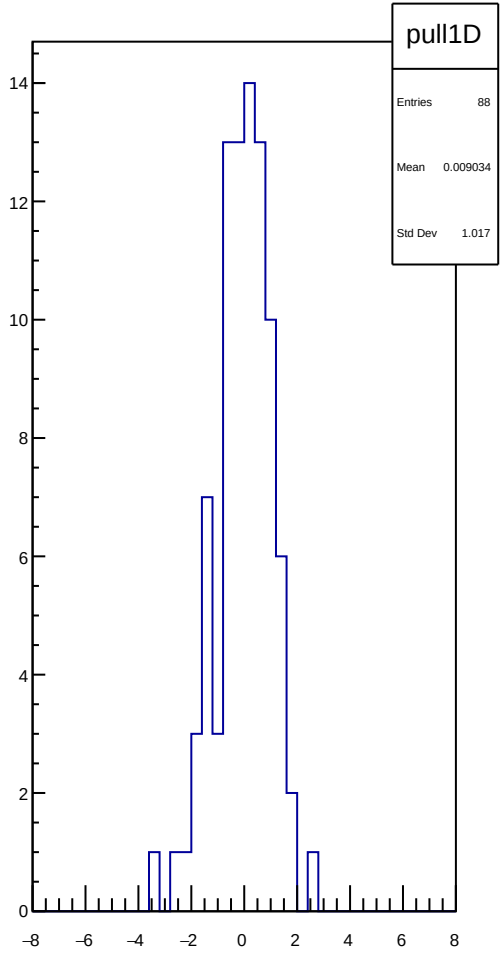

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.491e+05 / 87
p0 2.456e−11 ± 2.236e−14
0.1
0.08
0.06
0.04
0.02

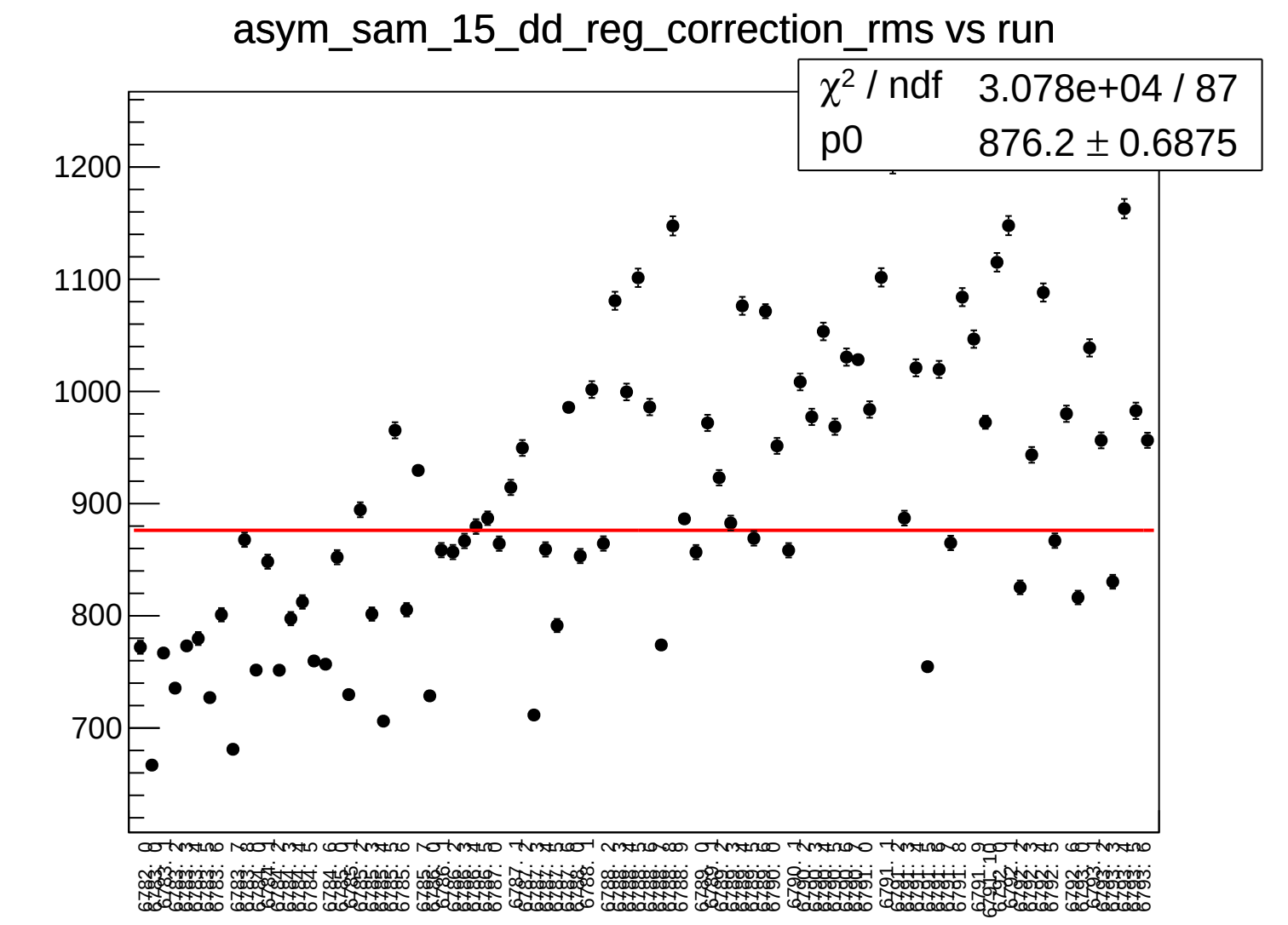

reg_asym_sam_15_dd_mean vs run
χ² / ndf 73.47 / 87
p0 34.27 ± 136.7
pull
Entries 88
Mean 61.6
Std Dev 100.8

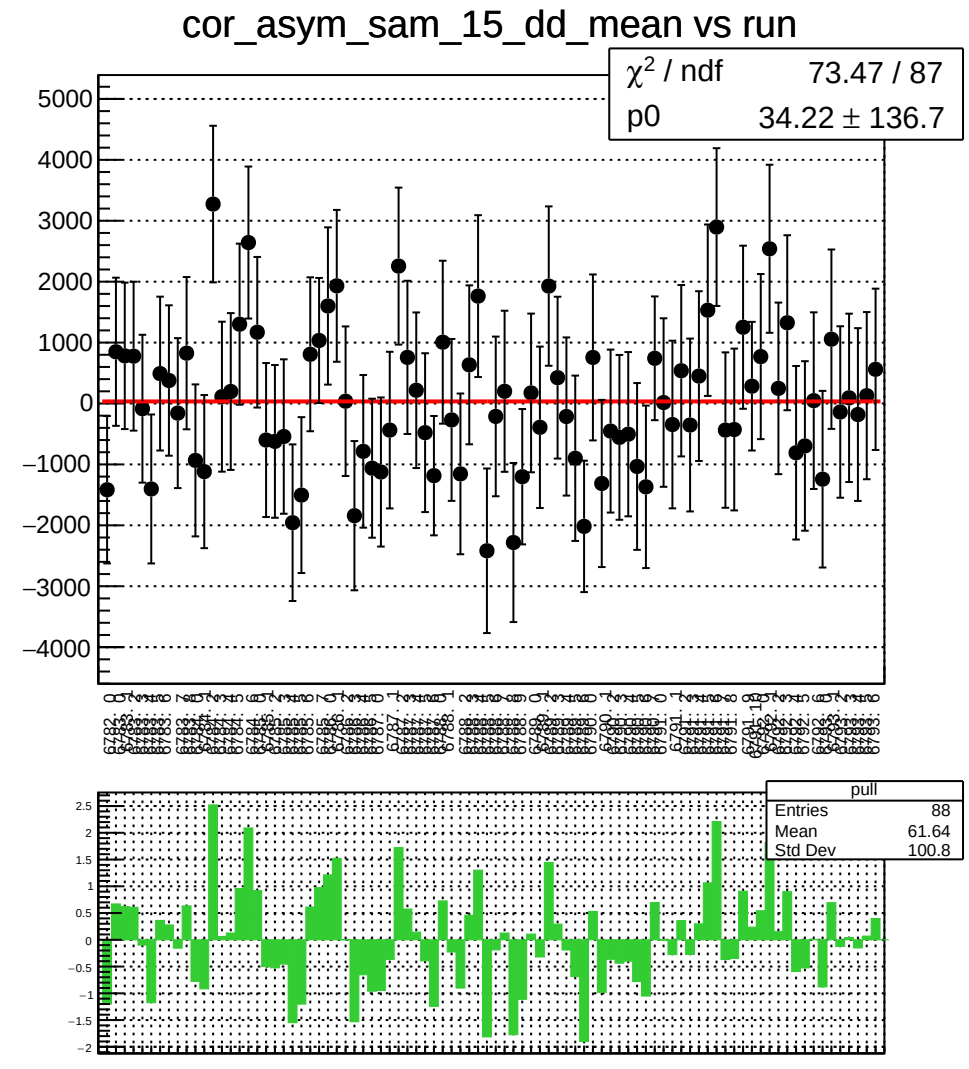

pull1D
Entries 88
Mean 0.007683
Std Dev 0.9137

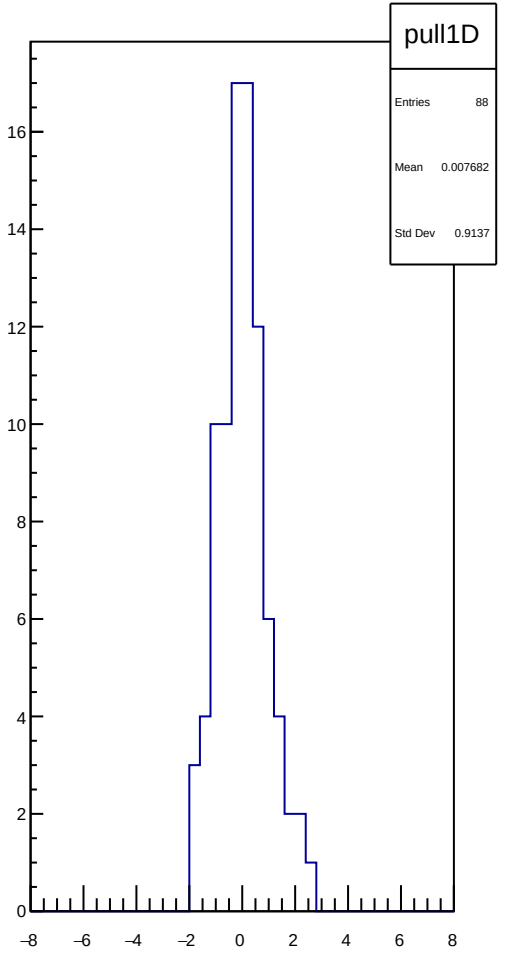

reg_asym_sam_15_dd_rms vs run
χ² / ndf 3995 / 87
p0 124.2 ± 0.09665
140
135
130
125
120
115
110

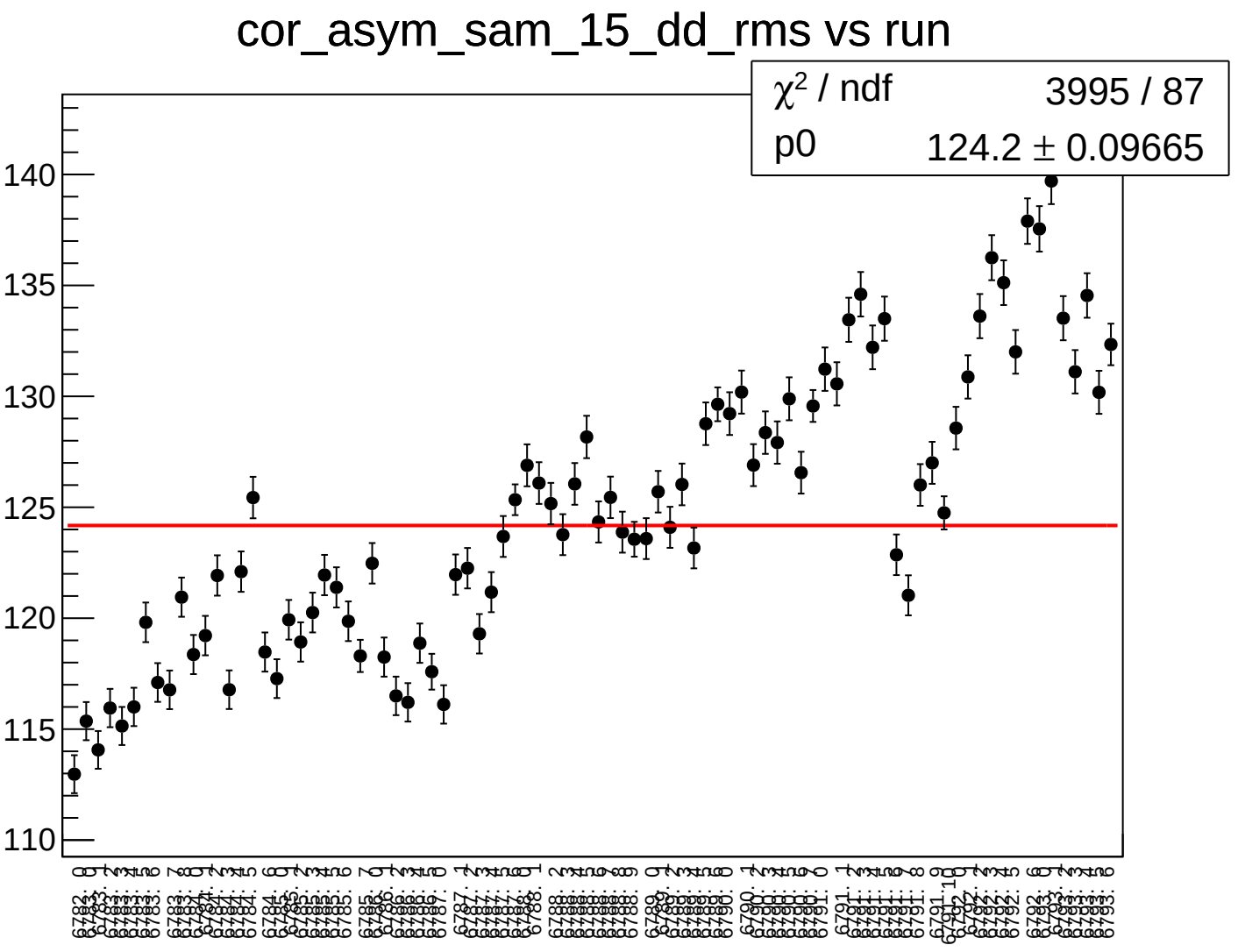

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 91.04 / 87
p0 100 ± 972.3
pull
Entries 88
Mean −119.4
Std Dev 0

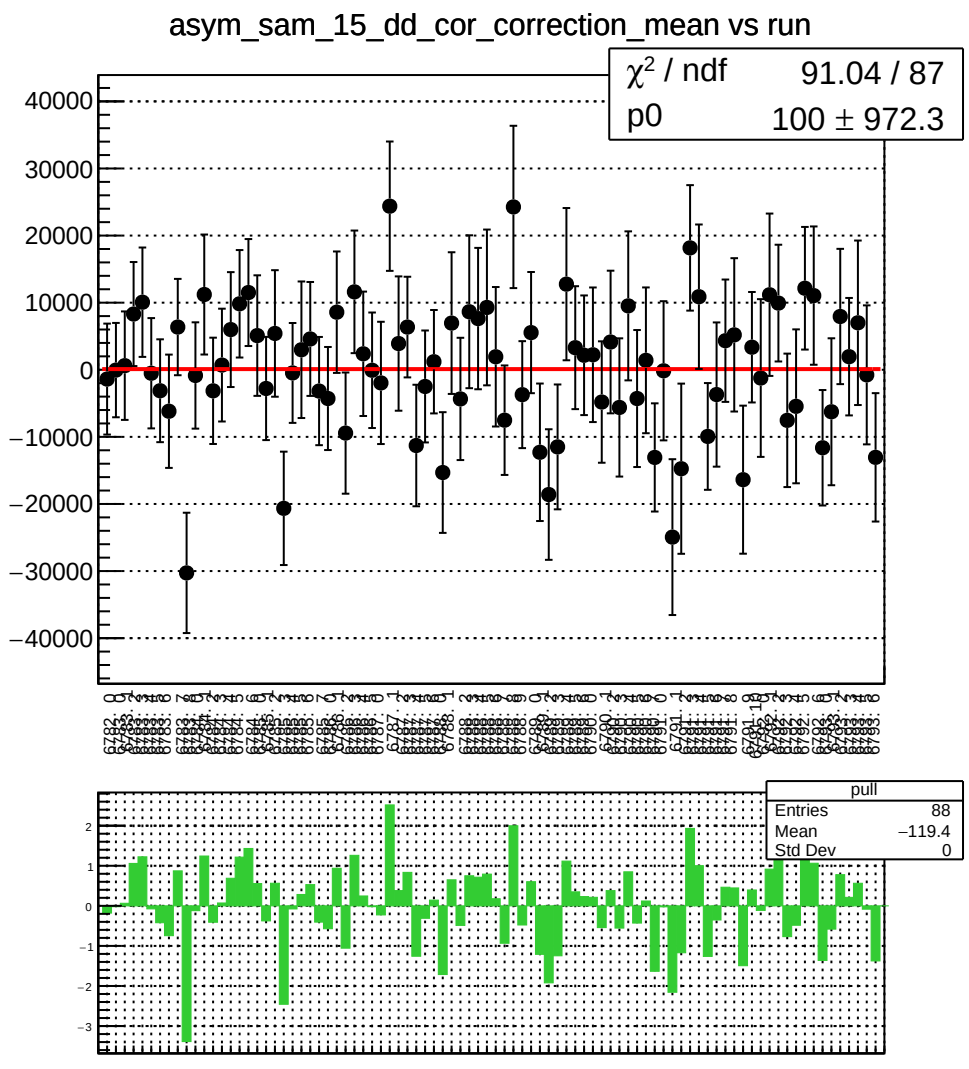

pull1D
Entries 88
Mean 0.009034
Std Dev 1.017

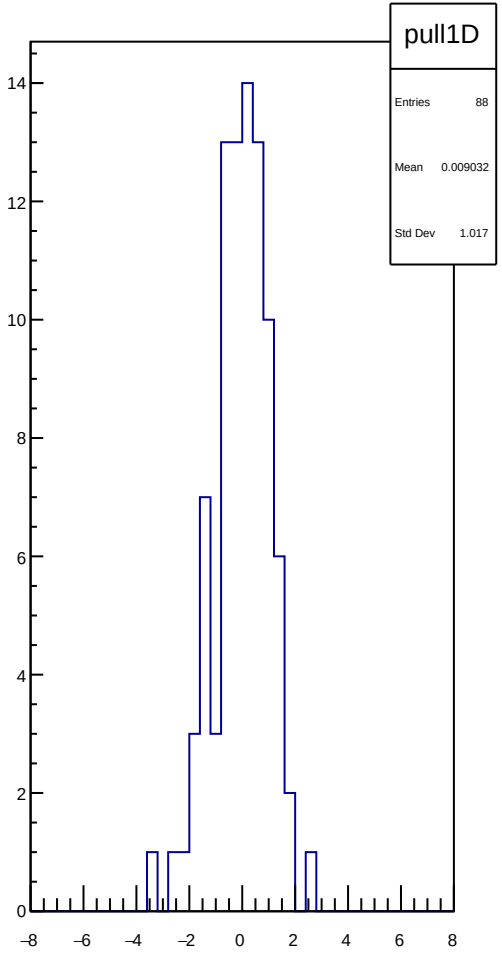

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 3.078e+04 / 87
p0 876.2 ± 0.6875
1200
1100
1000
900
800
700

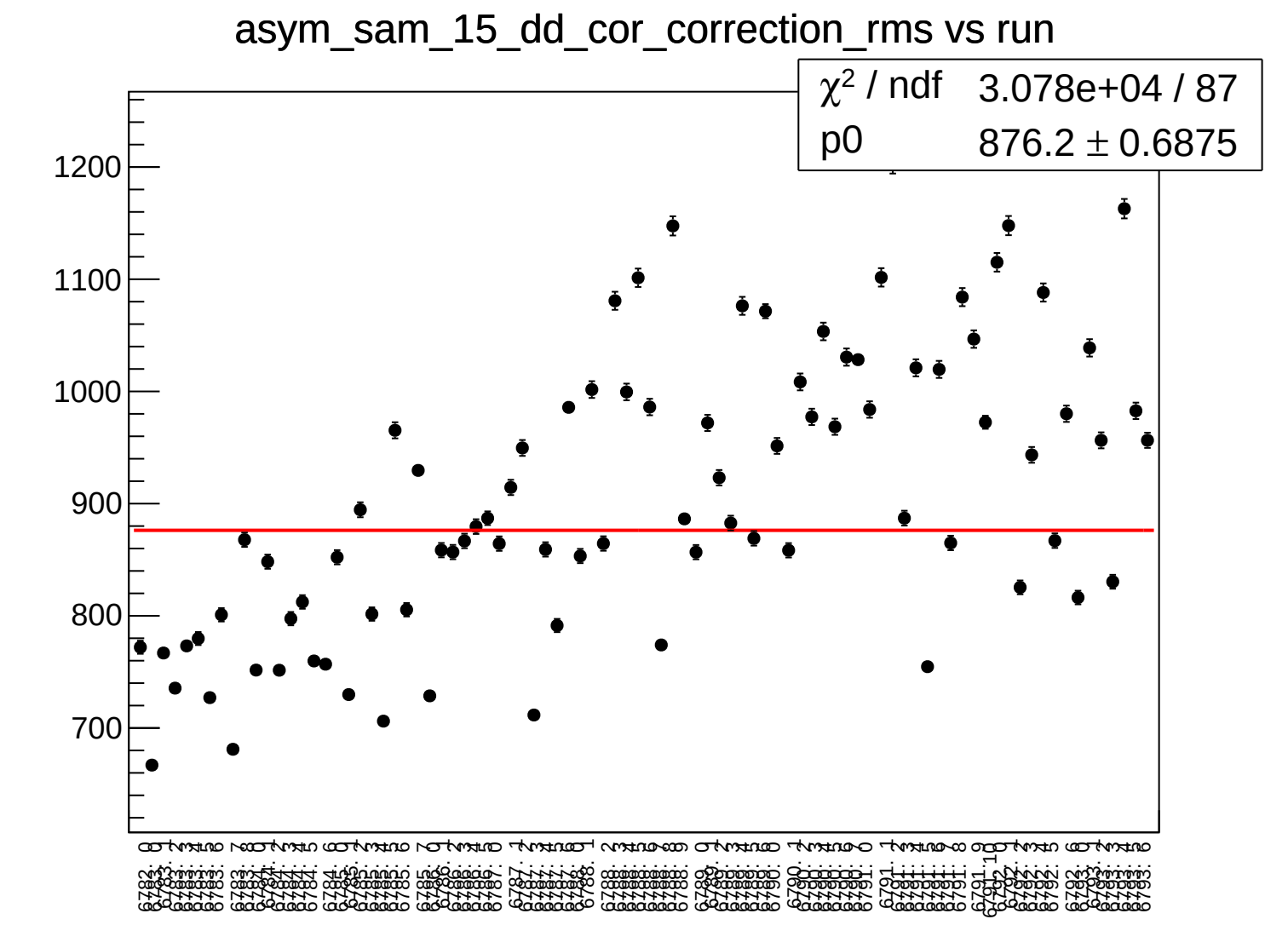

cor_asym_sam_15_dd_mean vs run
χ² / ndf 73.47 / 87
p0 34.22 ± 136.7
pull
Entries 88
Mean 61.64
Std Dev 100.8

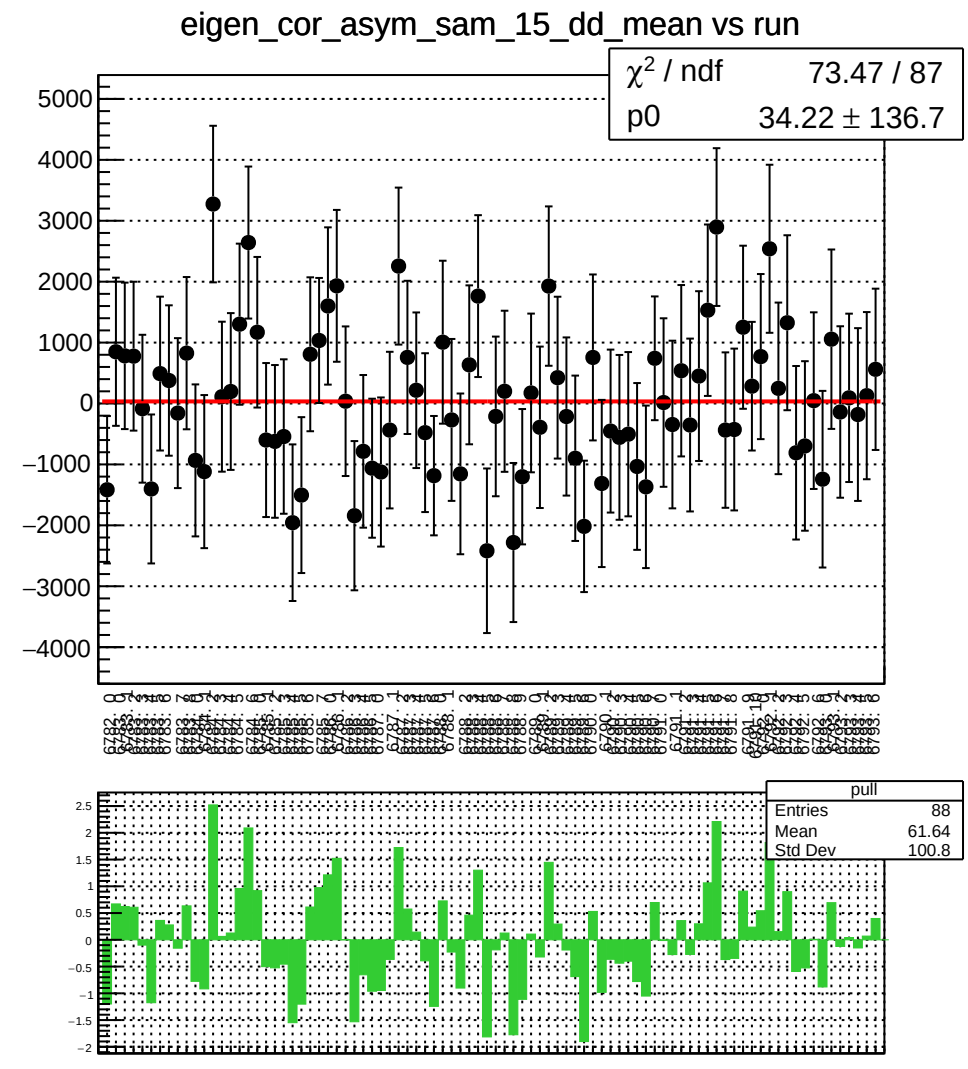

pull1D
Entries 88
Mean 0.007682
Std Dev 0.9137

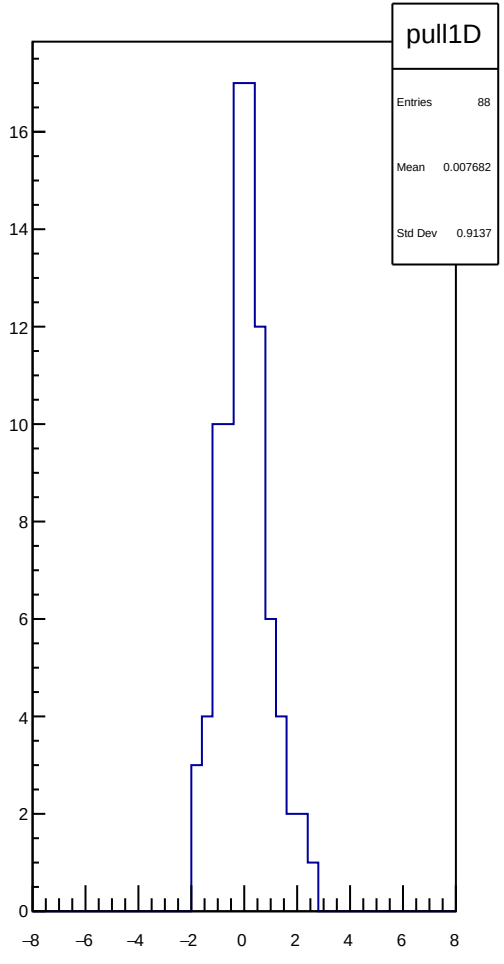

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 3995 / 87
p0 124.2 ± 0.09665
140
135
130
125
120
115
110

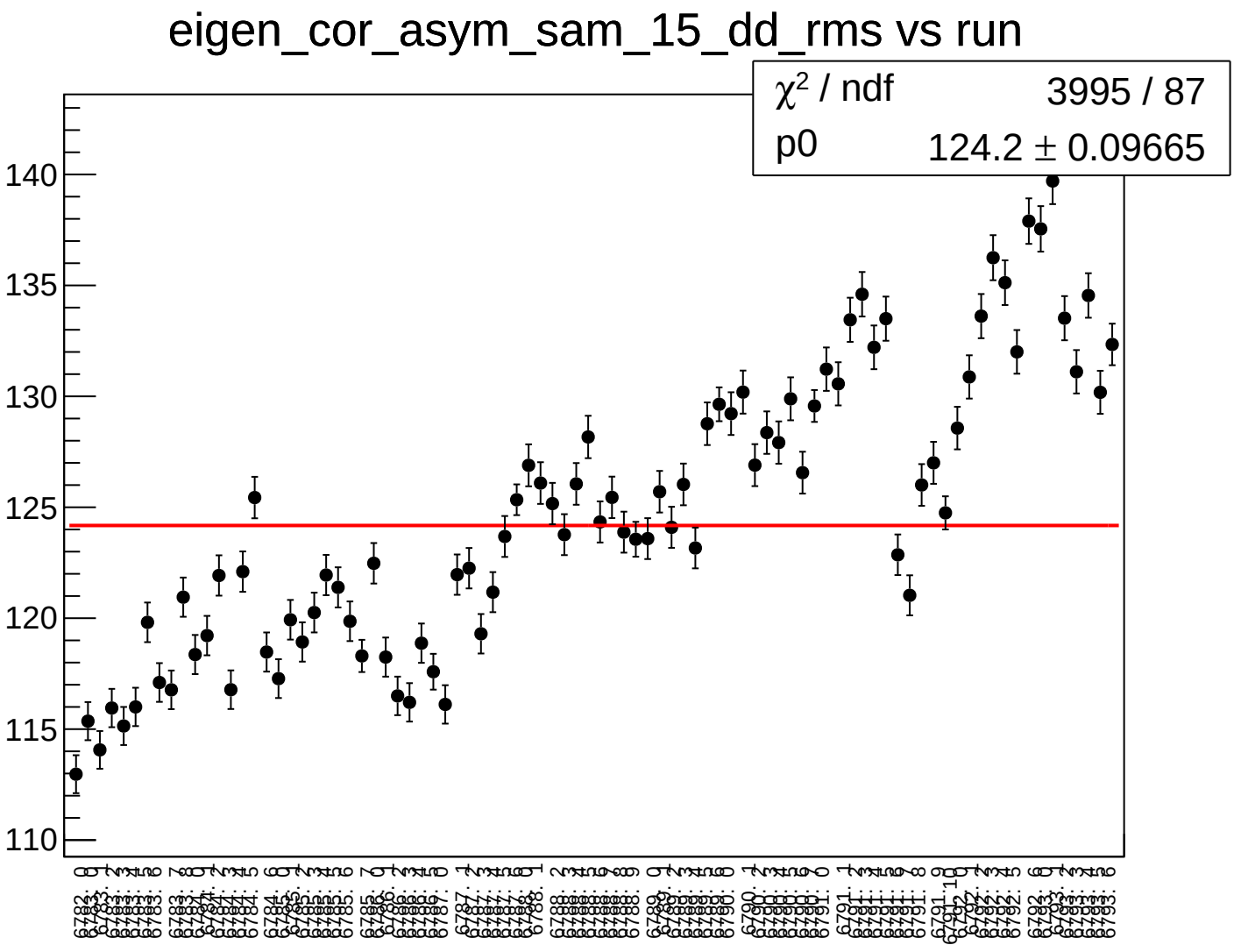

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 91.04 / 87
p0 100 ± 972.3
pull
Entries 88
Mean −119.4
Std Dev 0

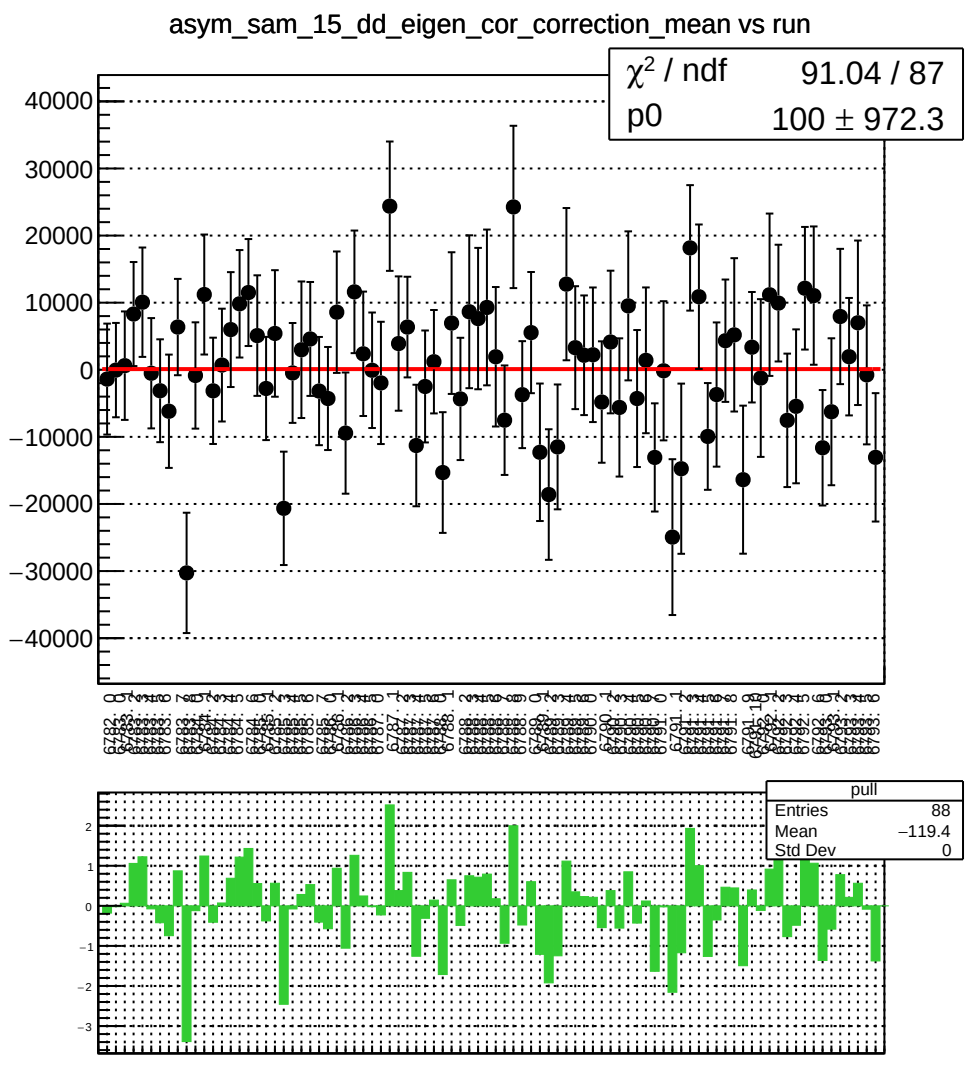

pull1D
Entries 88
Mean 0.009032
Std Dev 1.017

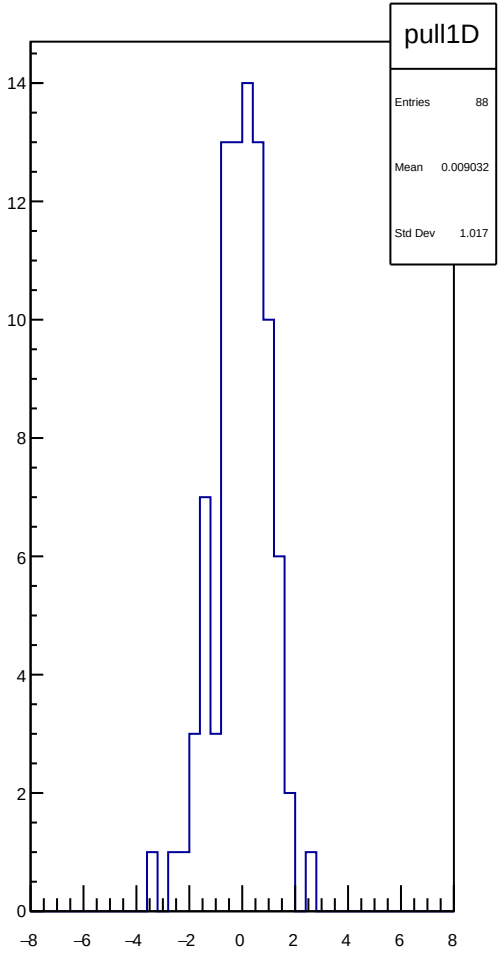

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 3.078e+04 / 87
p0 876.2 ± 0.6875
1200
1100
1000
900
800
700

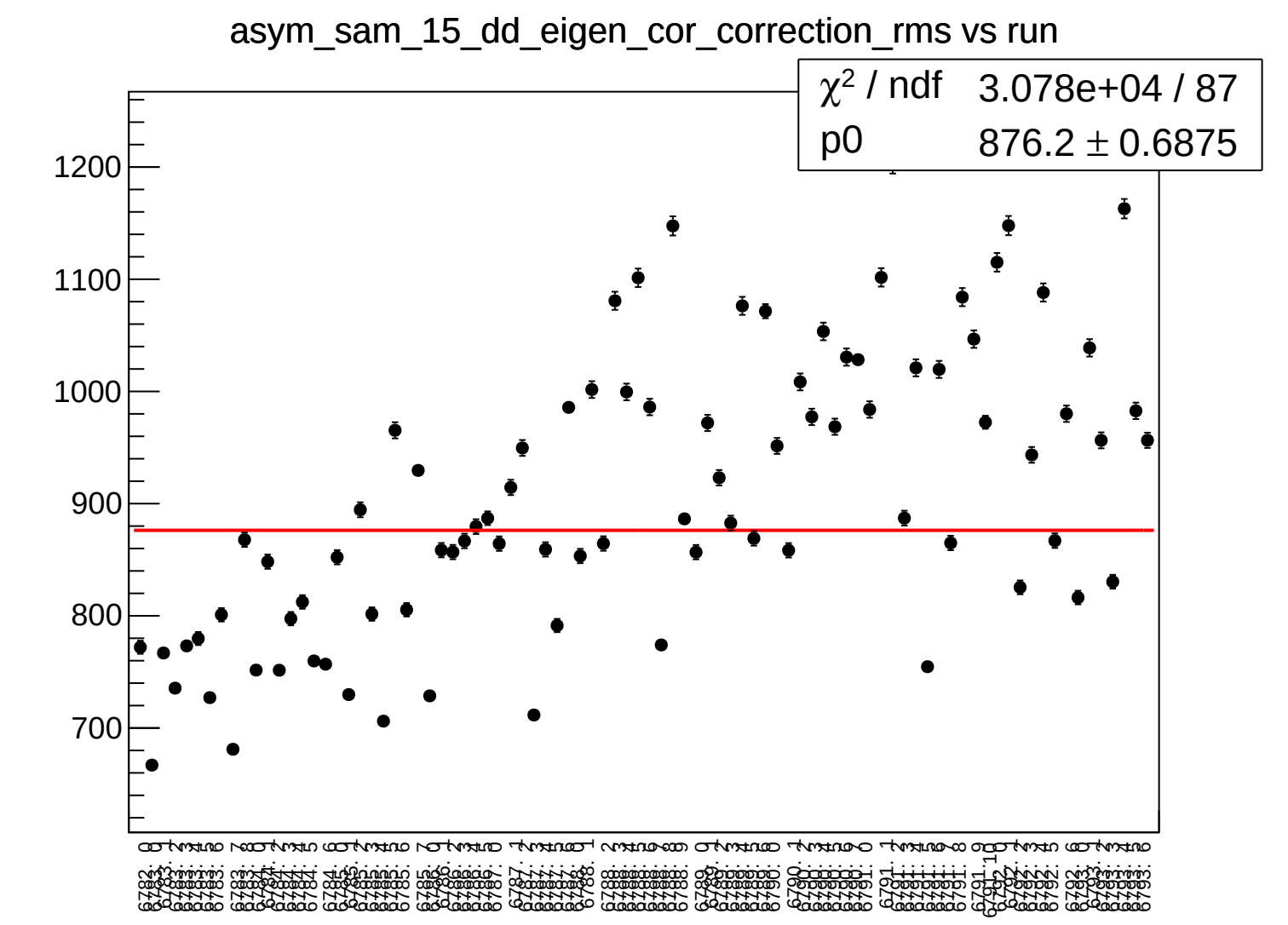

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 73.47 / 87
p0 34.22 ± 136.7
pull
Entries 88
Mean 61.64
Std Dev 100.8

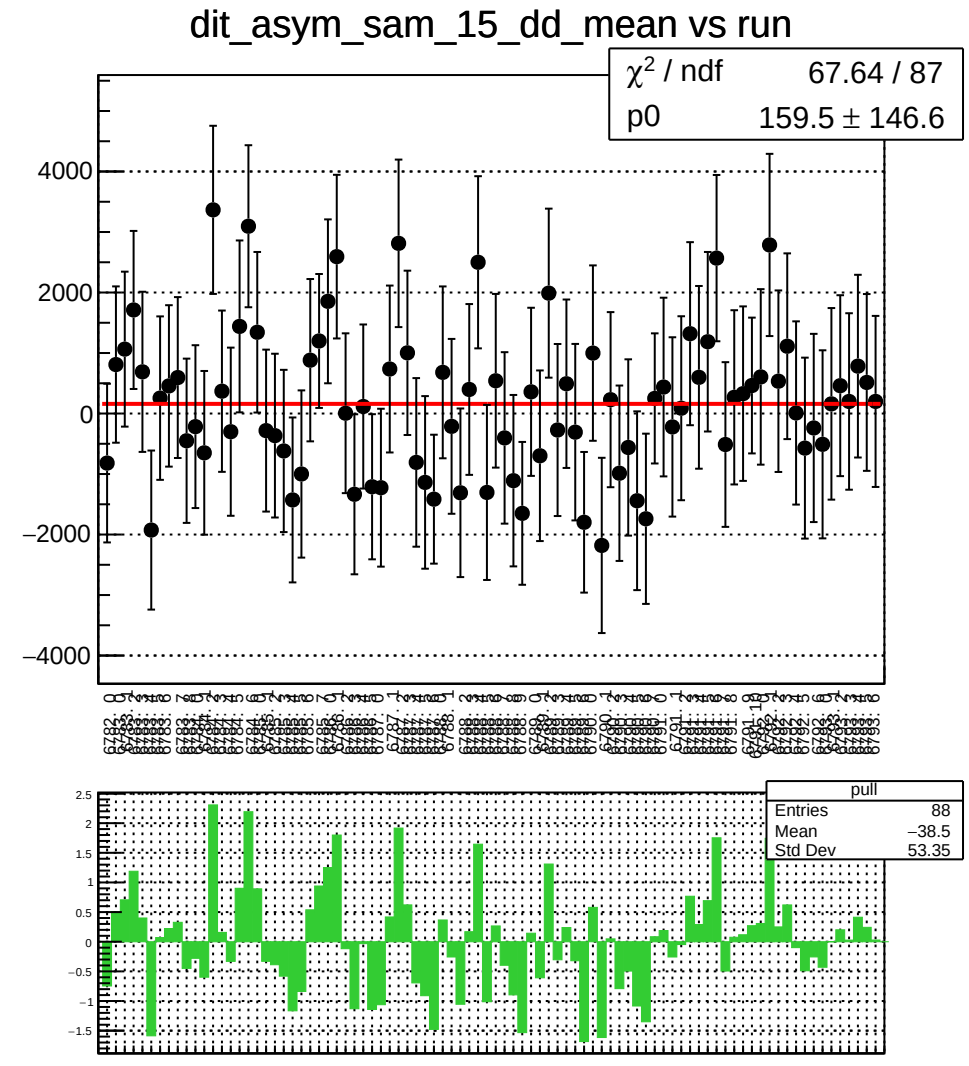

pull1D
Entries 88
Mean 0.007682
Std Dev 0.9137

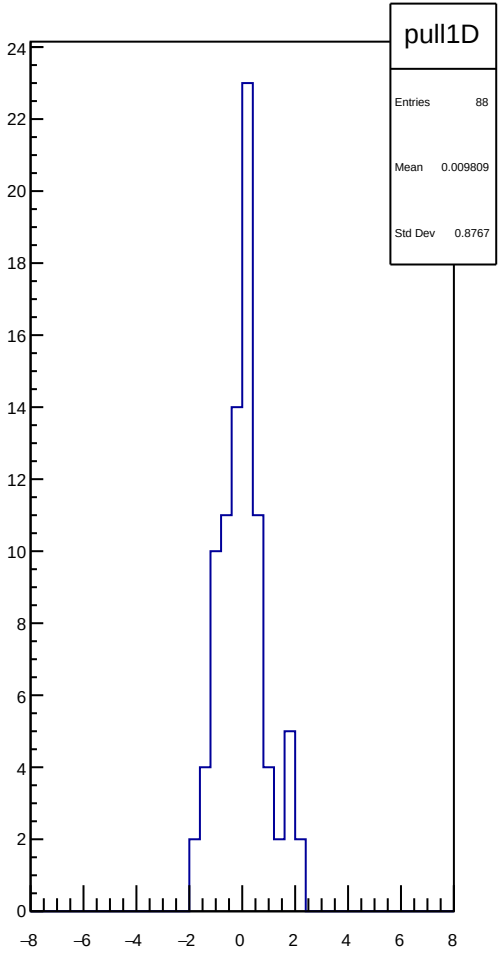

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 3995 / 87
p0 124.2 ± 0.09665
140
135
130
125
120
115
110

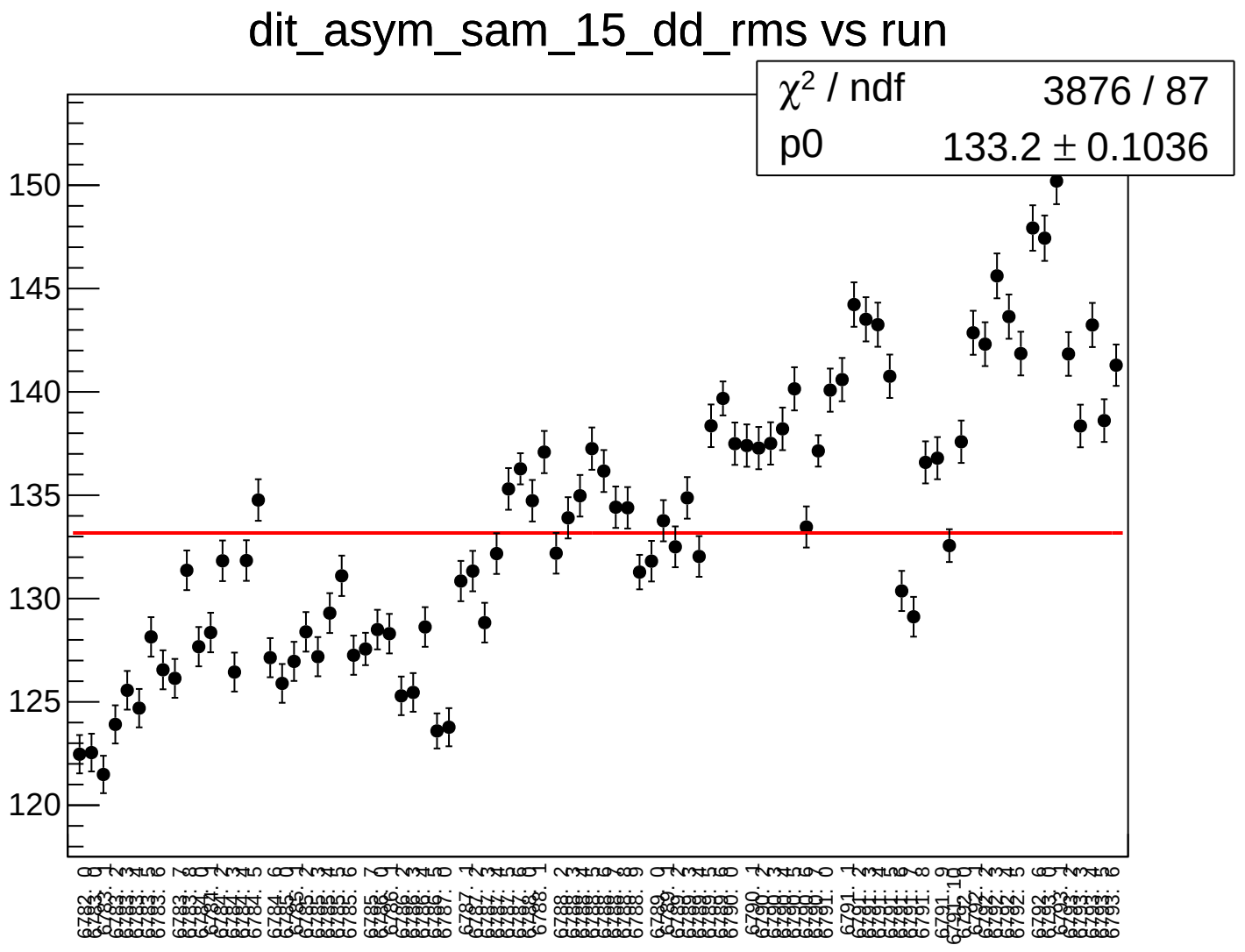

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.04 / 87
p0 100 ± 972.3
pull
Entries 88
Mean −119.4
Std Dev 0

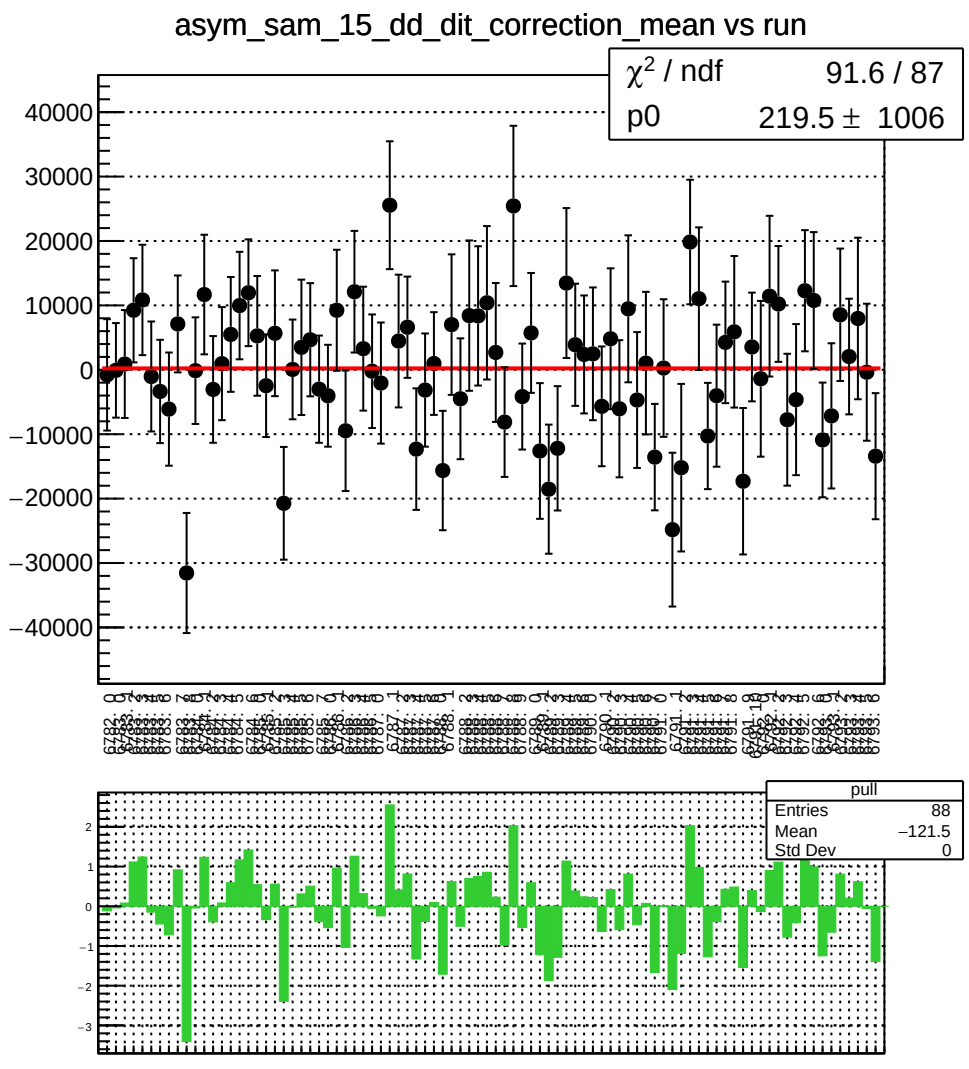

pull1D
Entries 88
Mean 0.009032
Std Dev 1.017

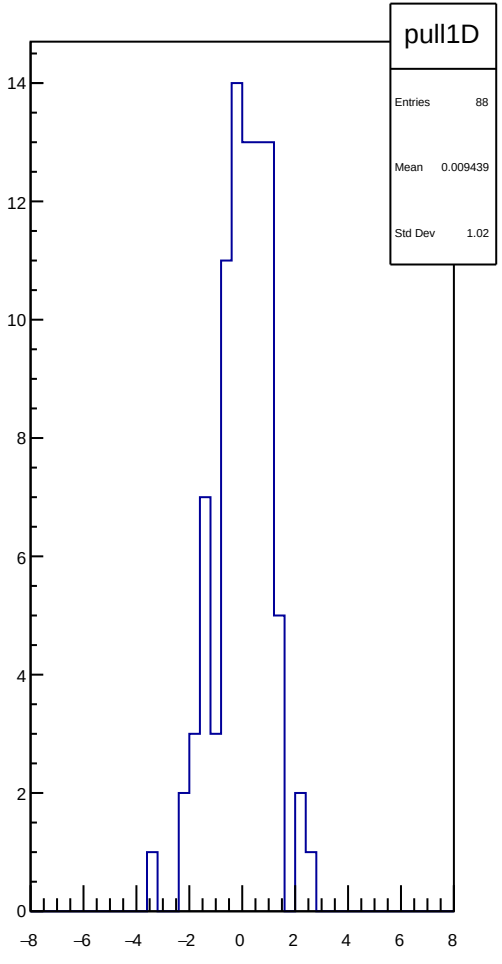

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.078e+04 / 87
p0 876.2 ± 0.6875
1200
1100
1000
900
800
700

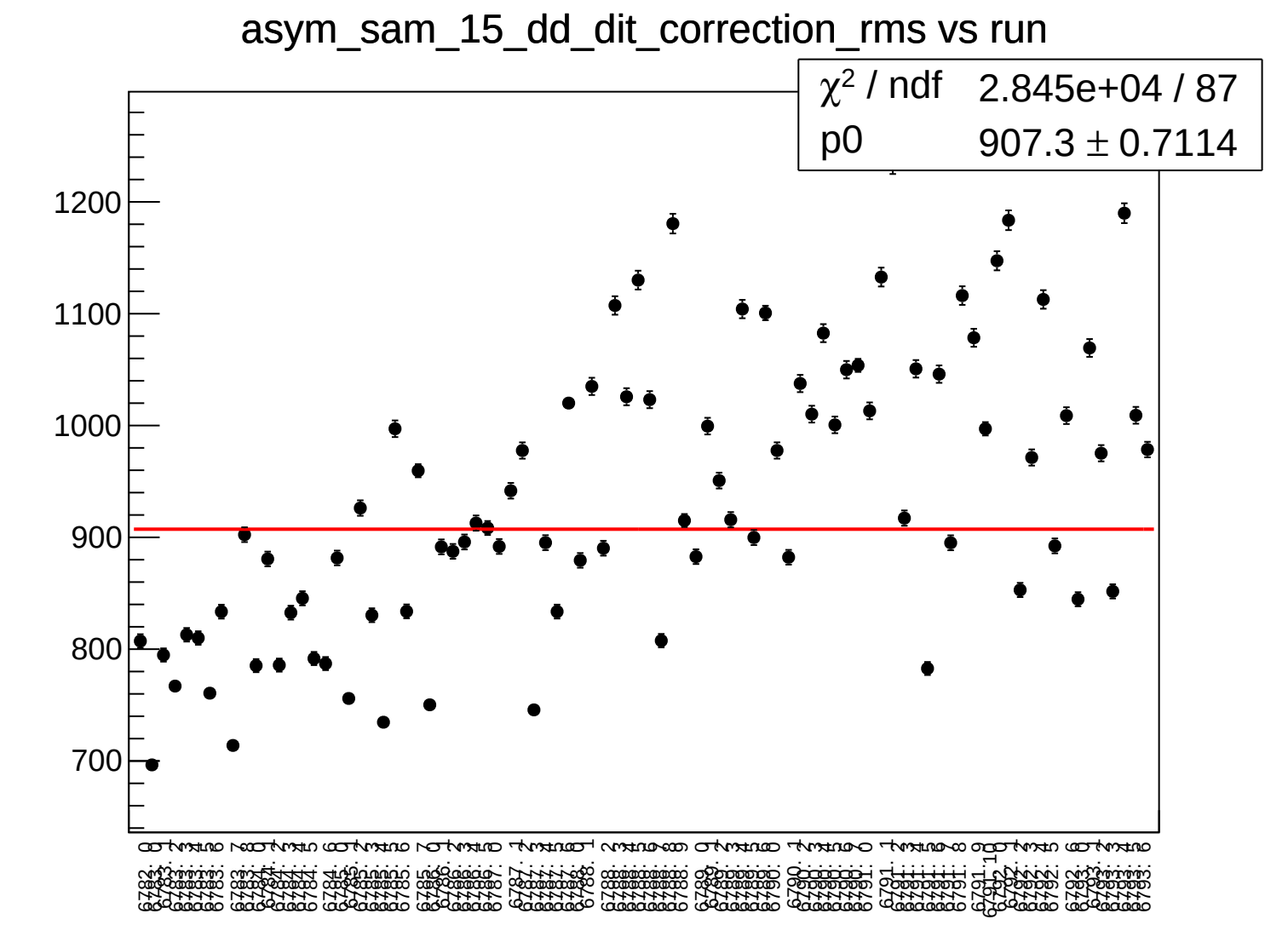

dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 67.64 / 87
p0 159.5 ± 146.6
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −38.5
Std Dev 53.35
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

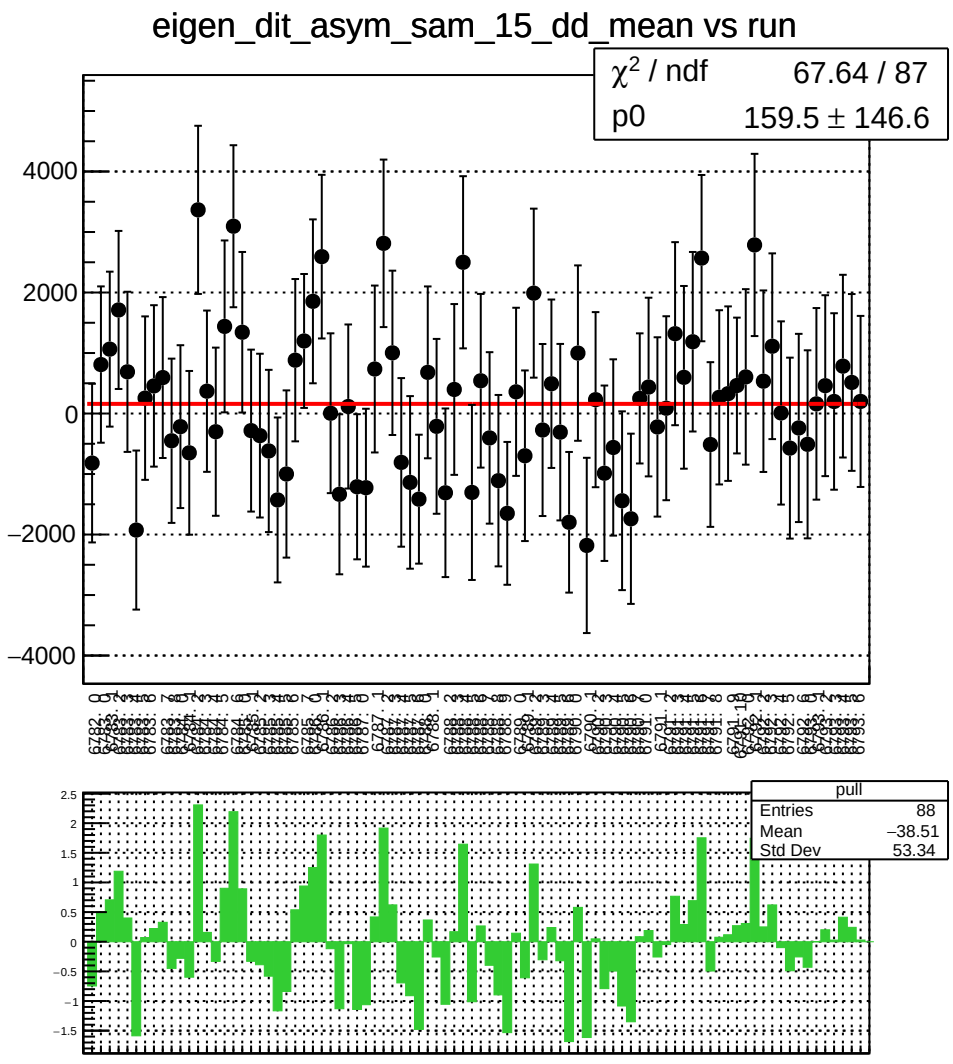

pull1D
Entries 88
Mean 0.009809
Std Dev 0.8767
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

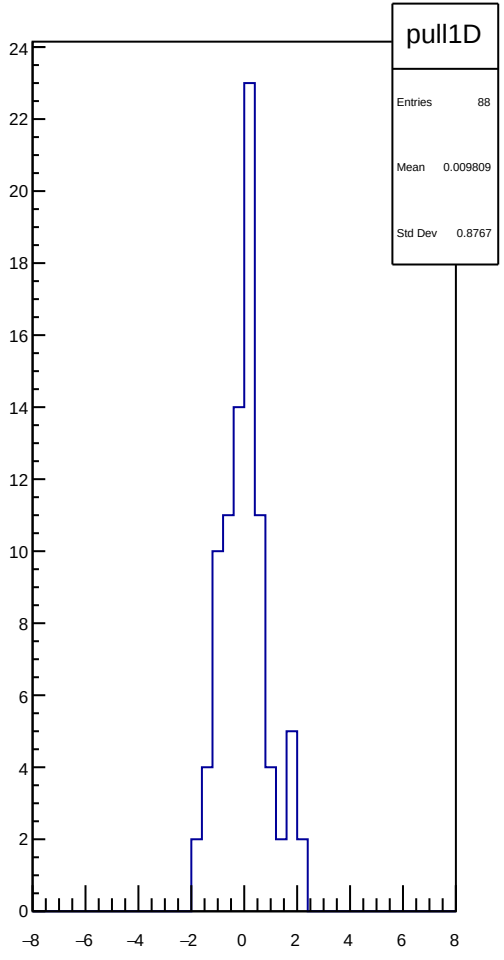

dit_asym_sam_15_dd_rms vs run
χ² / ndf 3876 / 87
p0 133.2 ± 0.1036
150
145
140
135
130
125
120

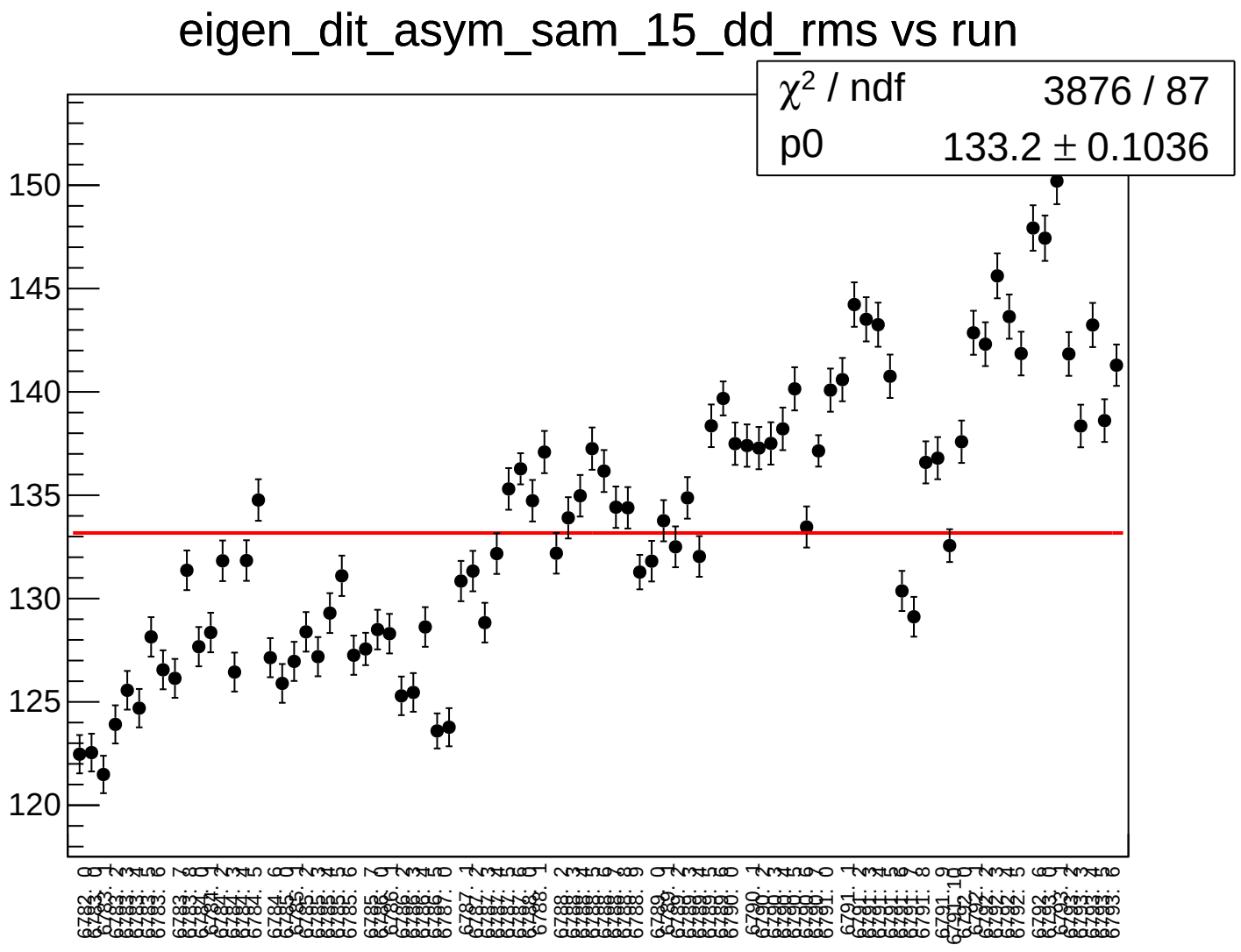

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 91.6 / 87
p0 219.5 ± 1006
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −121.5
Std Dev 0
2
1
0
−1
−2
−3

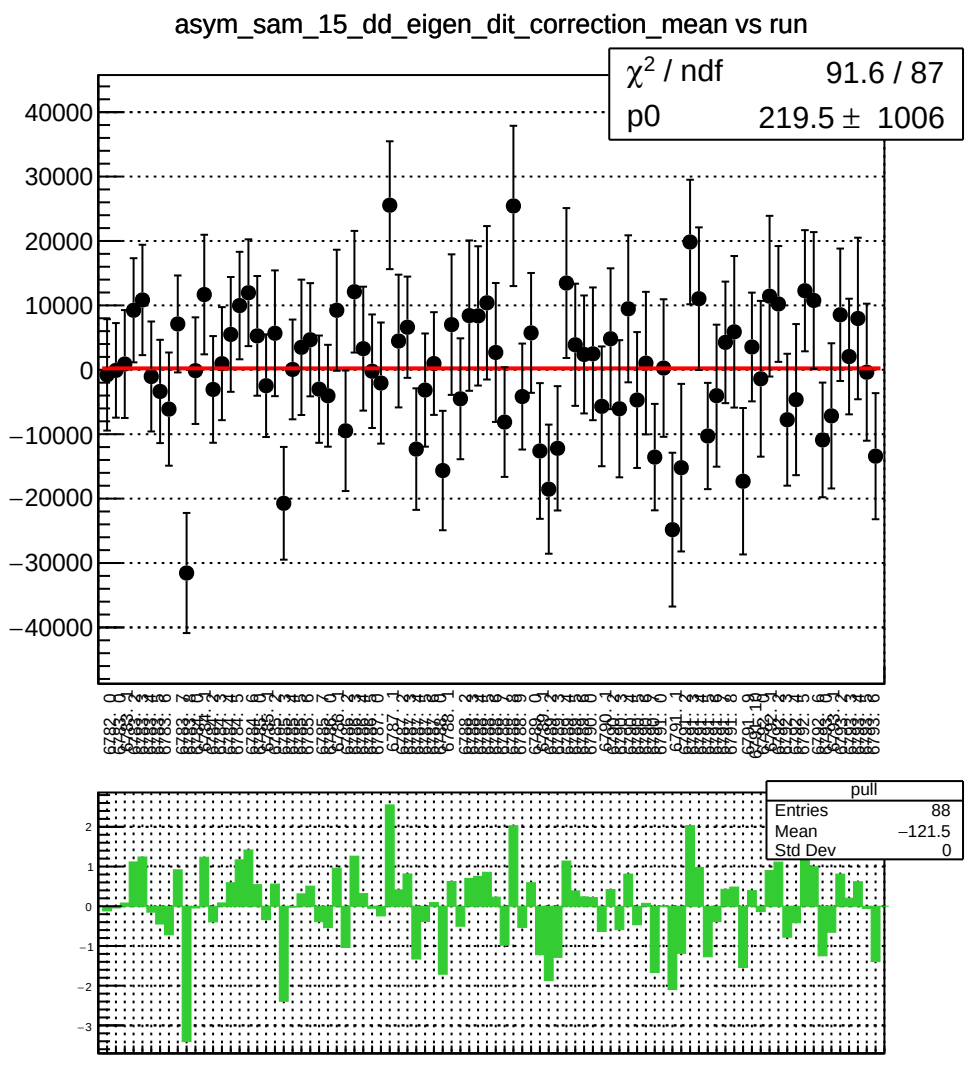

pull1D
Entries 88
Mean 0.009439
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

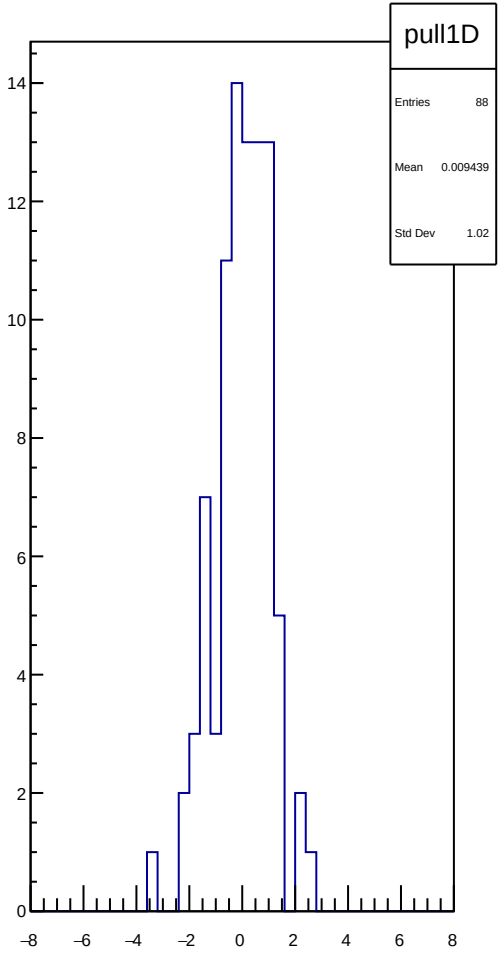

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.845e+04 / 87
p0 907.3 ± 0.7114
1200
1100
1000
900
800
700

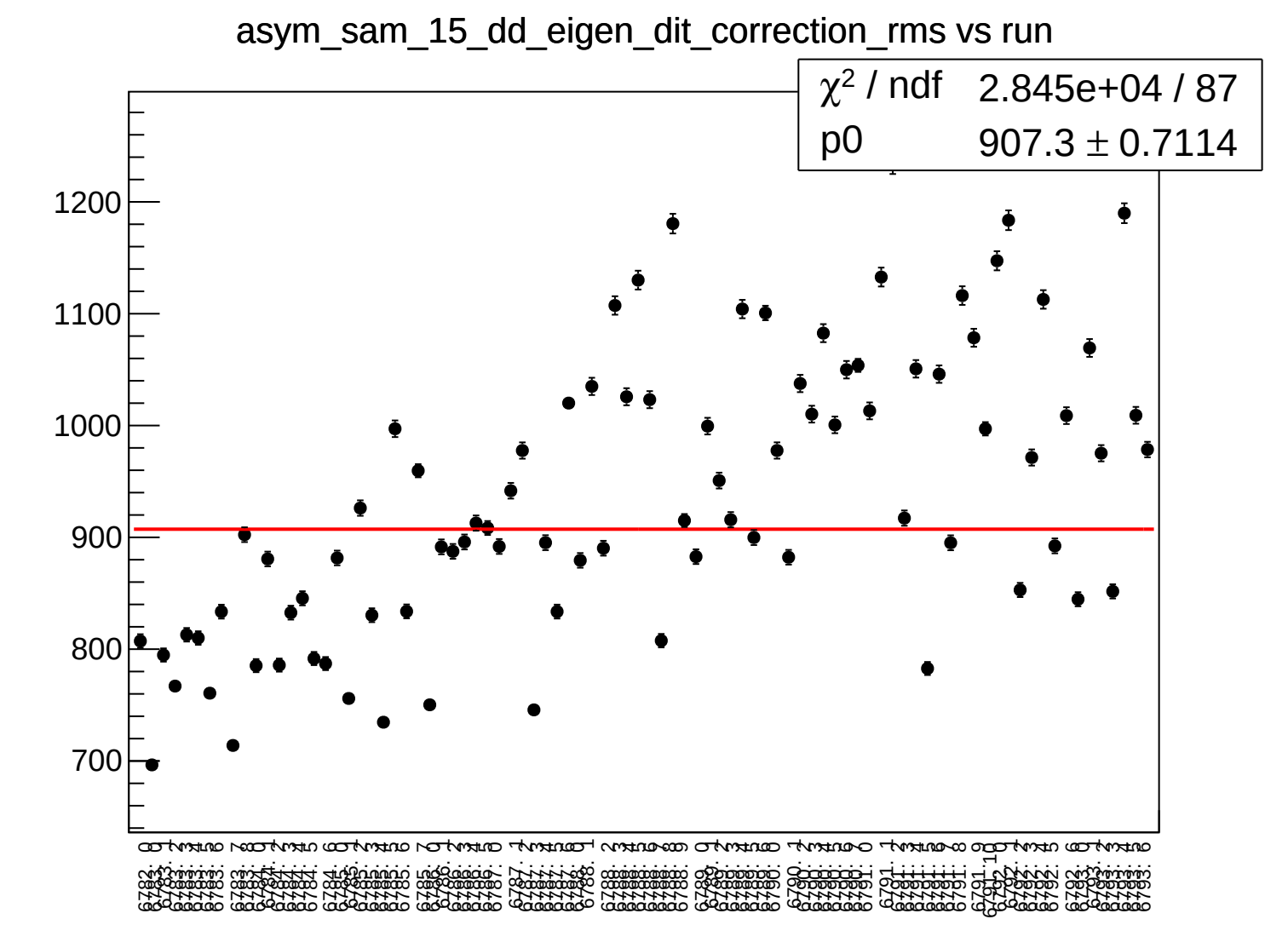

eigen_dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 67.64 / 87
p0 159.5 ± 146.6
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −38.51
Std Dev 53.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

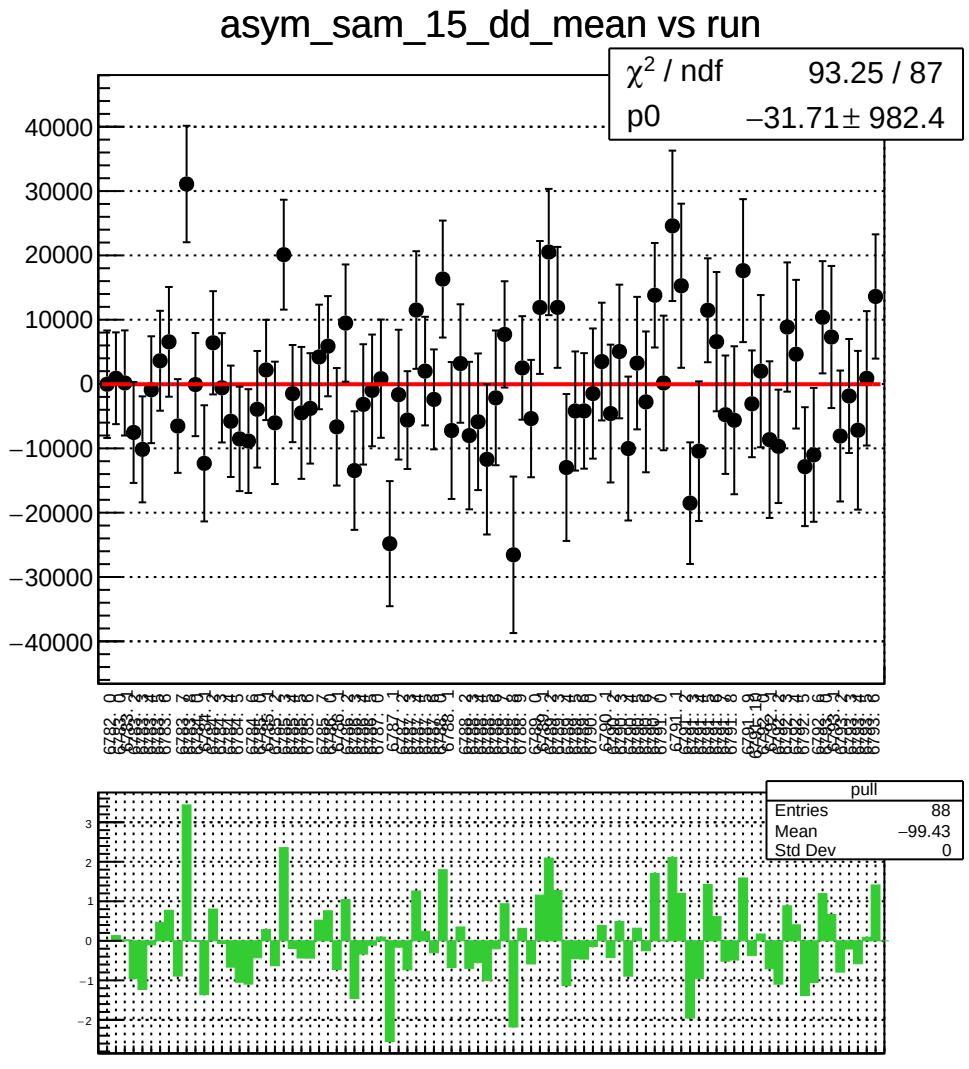

pull1D
Entries 88
Mean 0.009809
Std Dev 0.8767
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

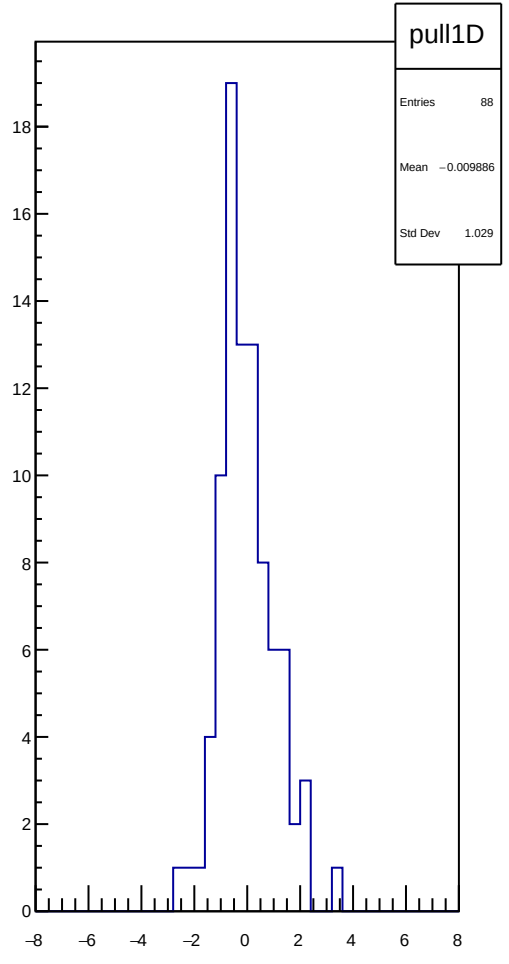

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 3876 / 87
p0 133.2 ± 0.1036
150
145
140
135
130
125
120

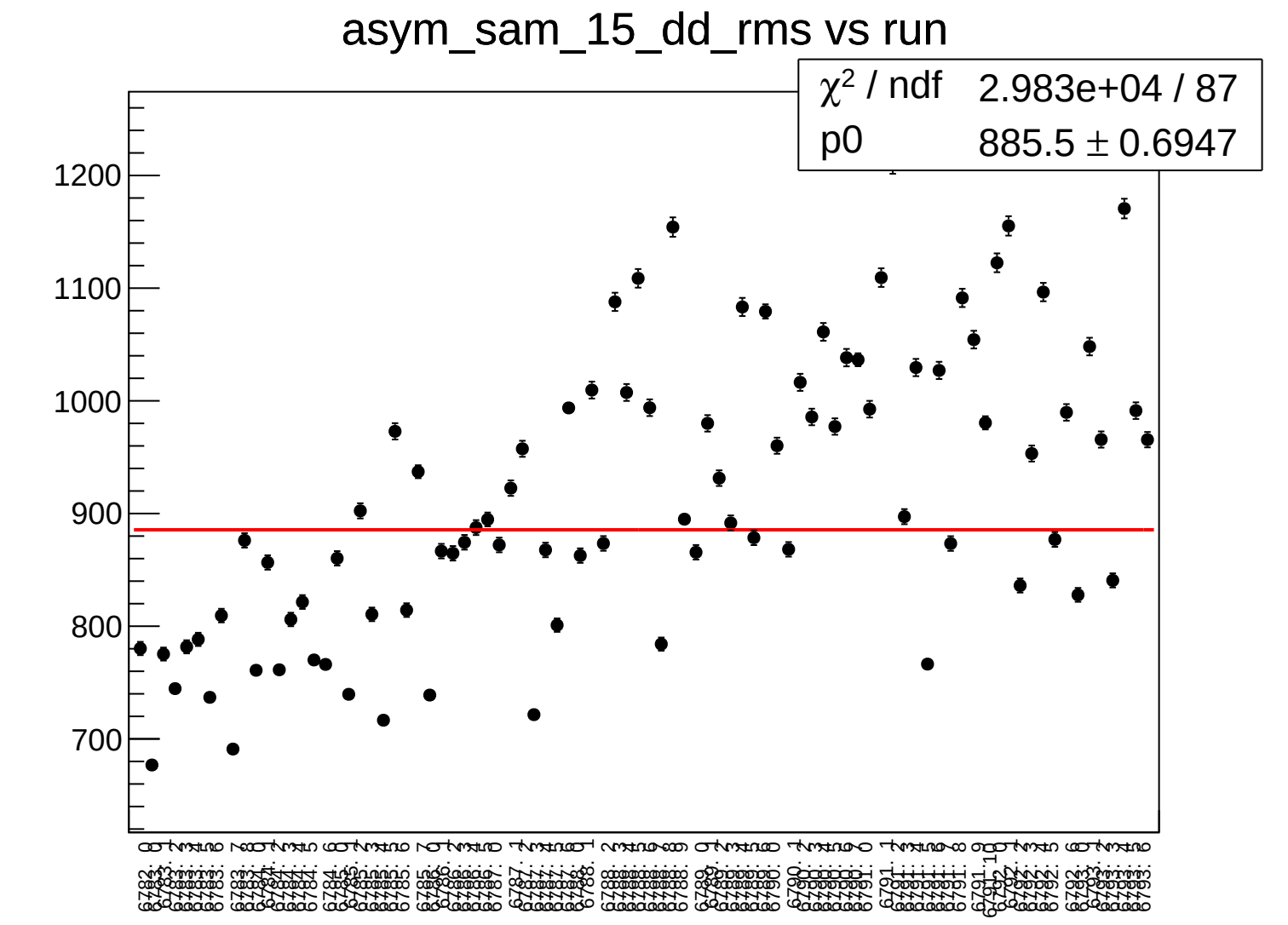

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.6 / 87
p0 219.5 ± 1006
pull
Entries 88
Mean −121.5
Std Dev 0

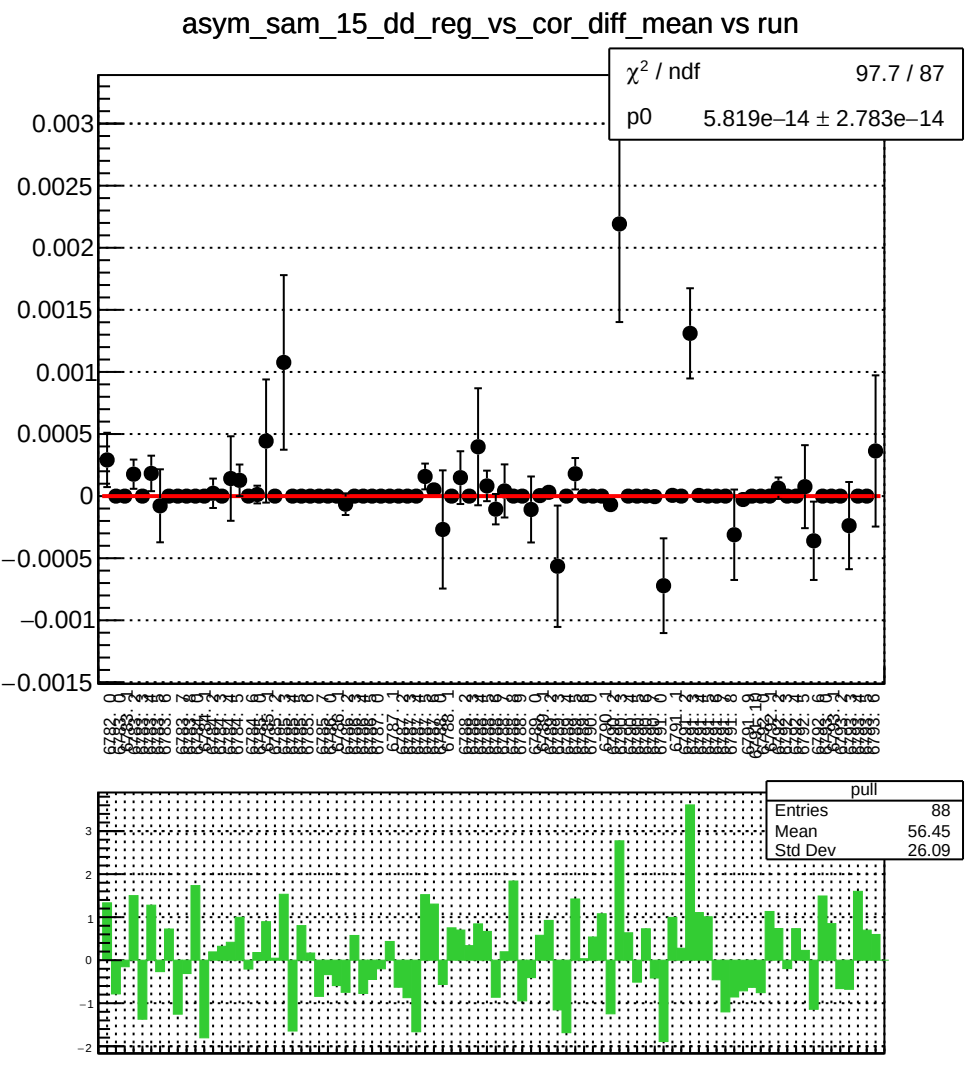

pull1D
Entries 88
Mean 0.009439
Std Dev 1.02

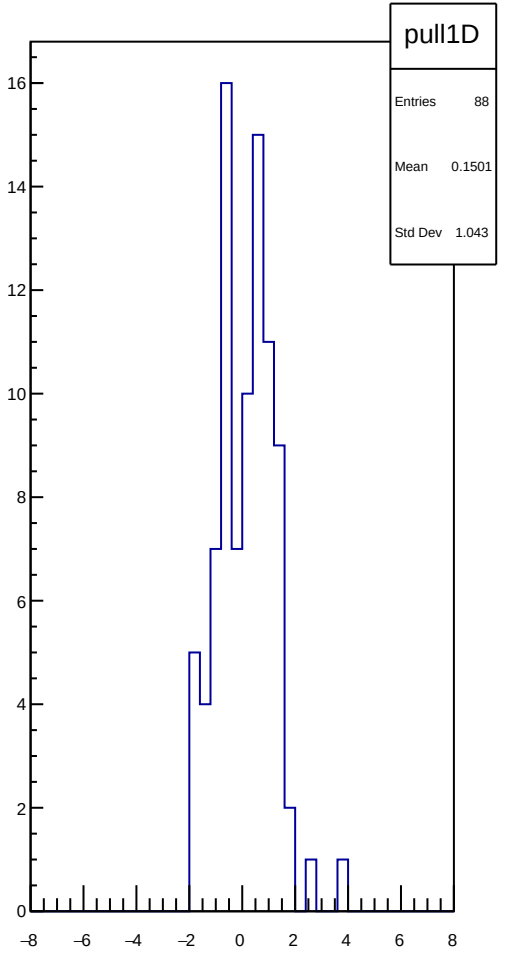

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.845e+04 / 87
p0 907.3 ± 0.7114
1200
1100
1000
900
800
700

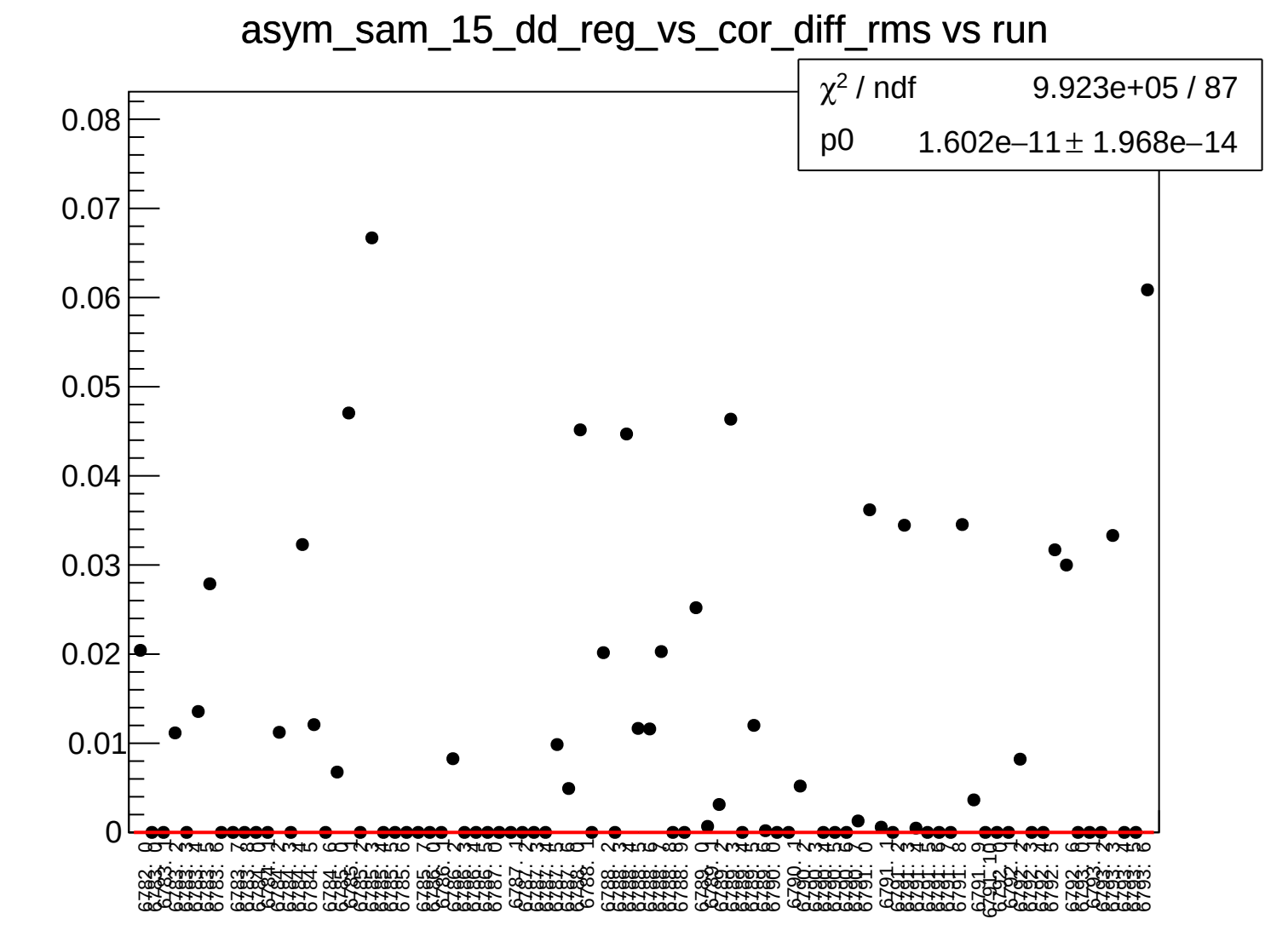

asym_sam_15_dd_mean vs run
χ² / ndf 93.25 / 87
p0 −31.71± 982.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −99.43
Std Dev 0
3
2
1
0
−1
−2

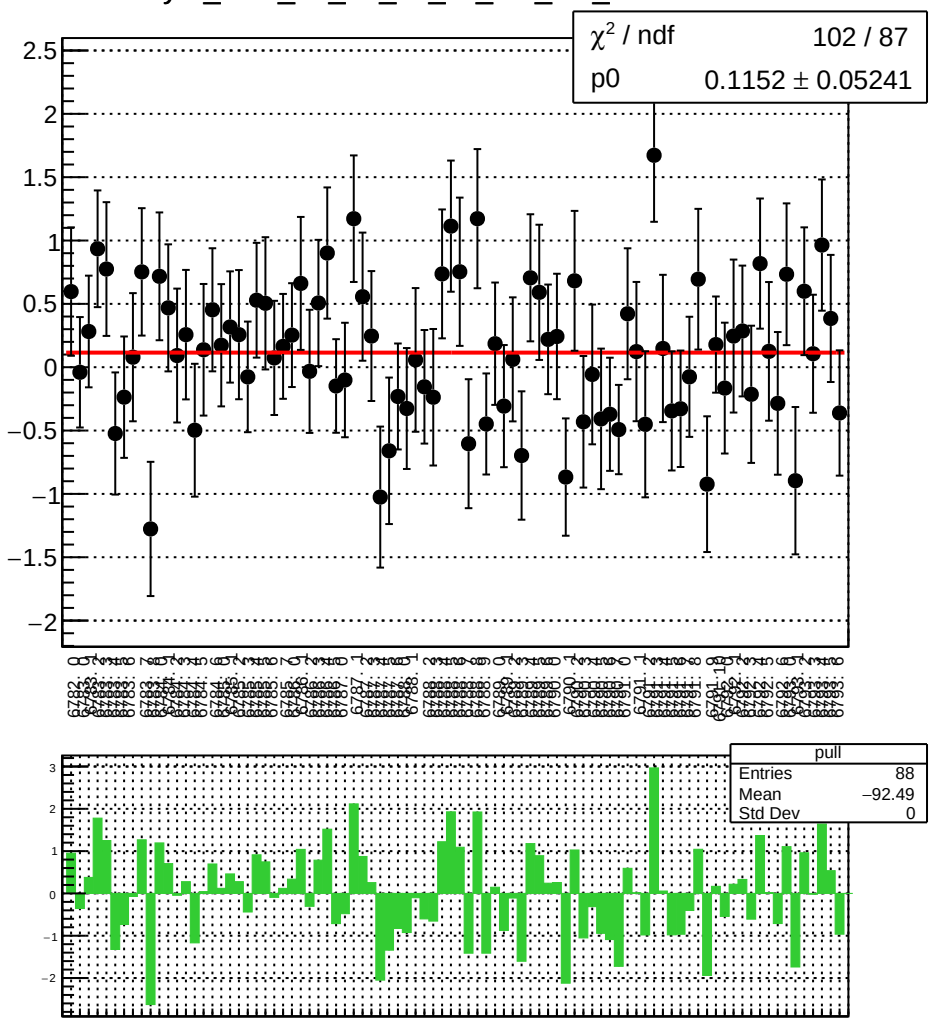

pull1D
Entries 88
Mean −0.009886
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

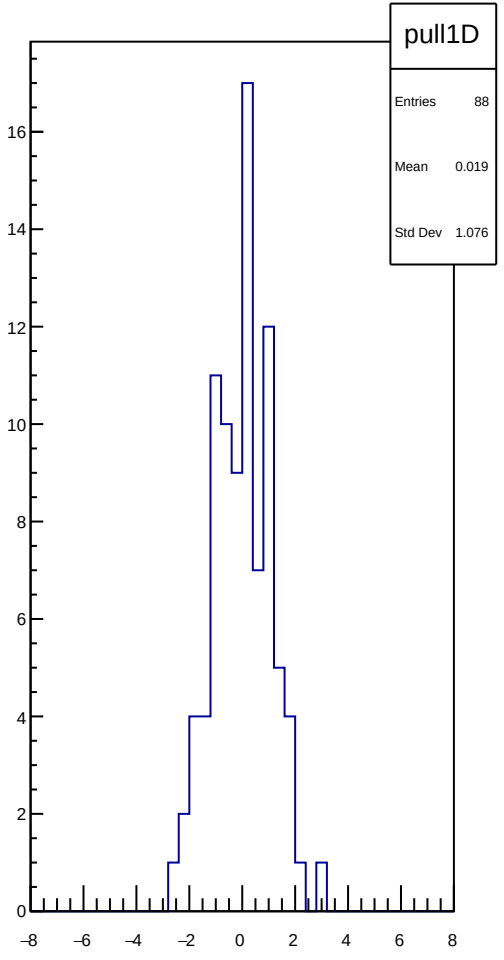

asym_sam_15_dd_rms vs run
χ² / ndf 2.983e+04 / 87
p0 885.5 ± 0.6947
1200
1100
1000
900
800
700

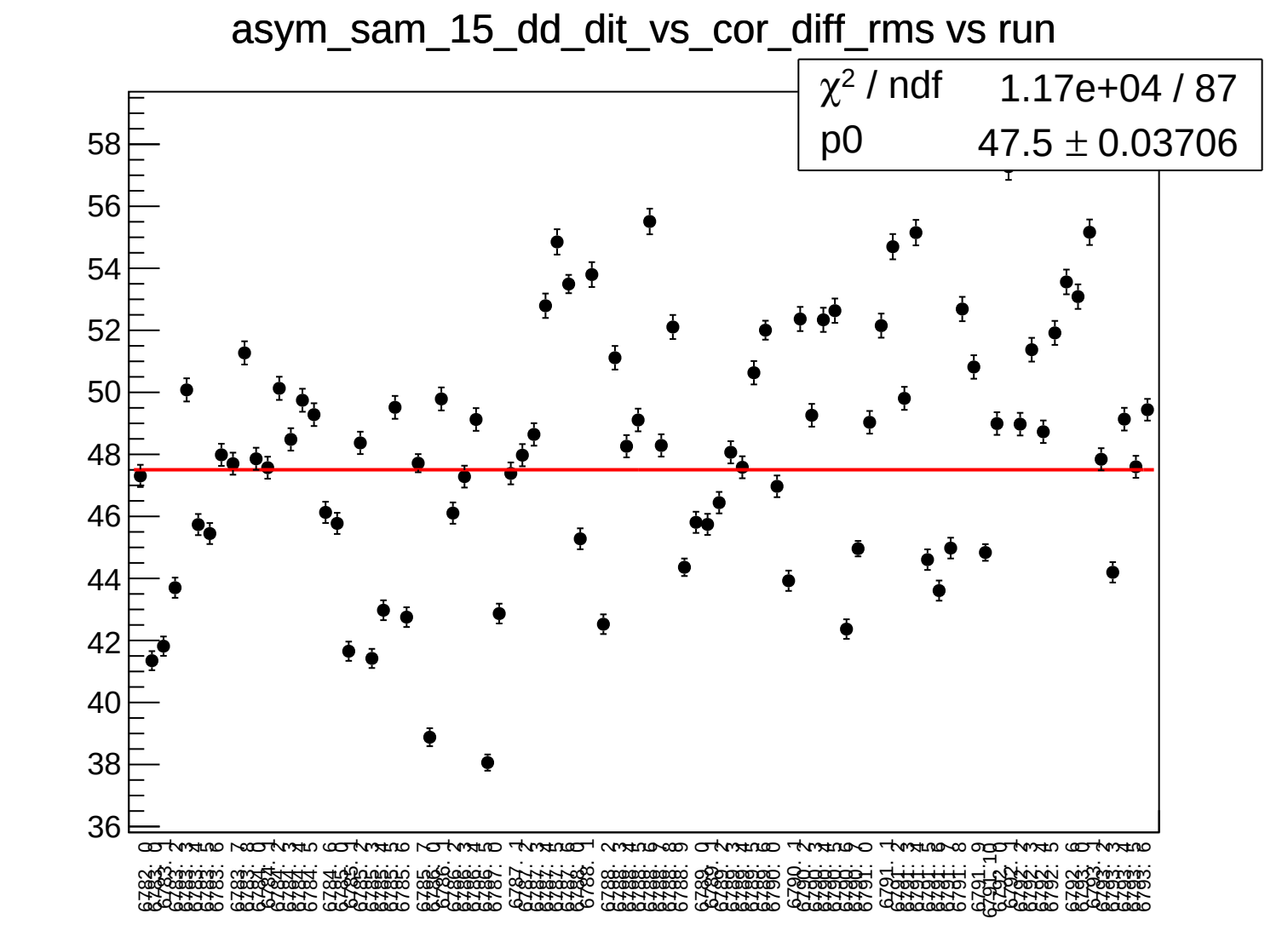

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.7 / 87
p0 5.819e−14 ± 2.783e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 56.45
Std Dev 26.09
3
2
1
0
−1
−2

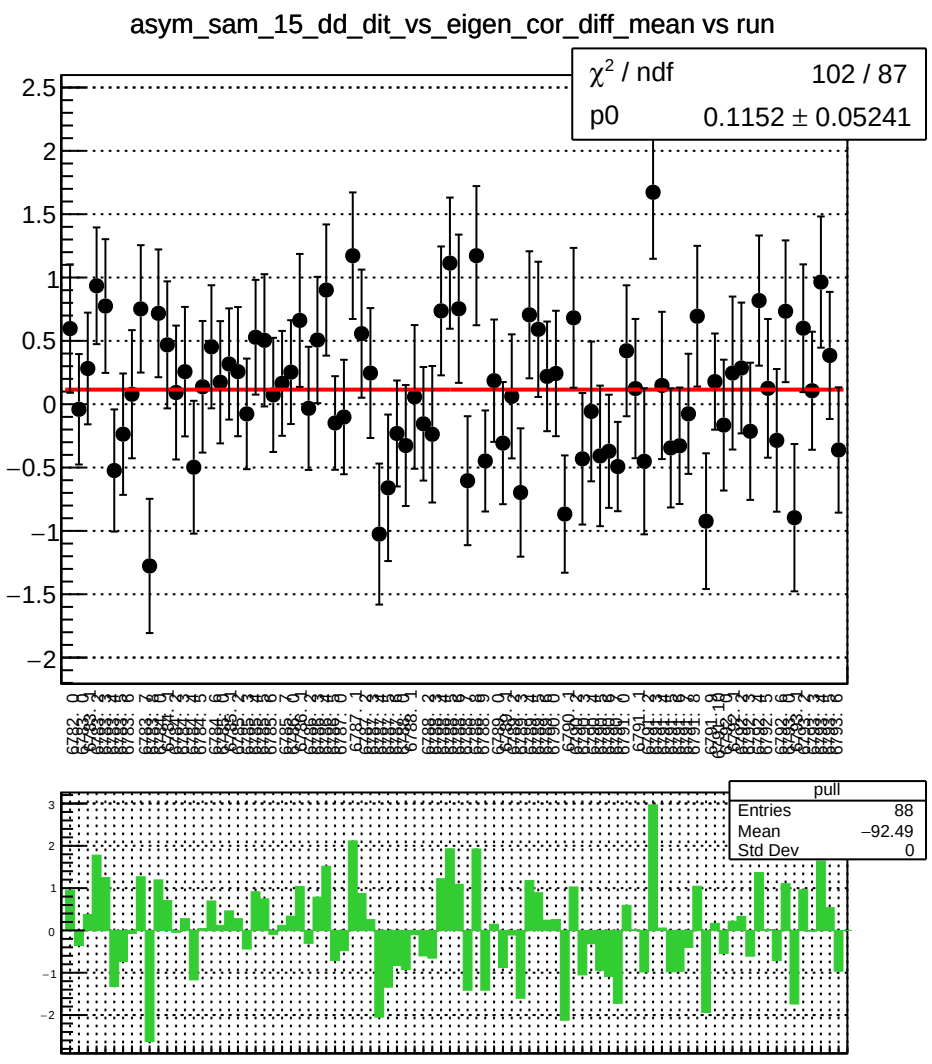

pull1D
Entries 88
Mean 0.1501
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

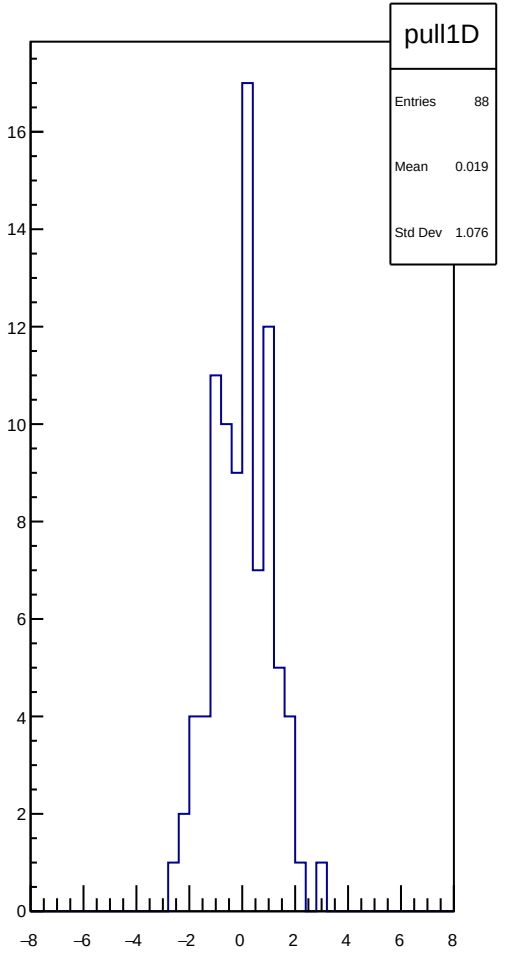

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.923e+05 / 87
p0 1.602e−11 ± 1.968e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

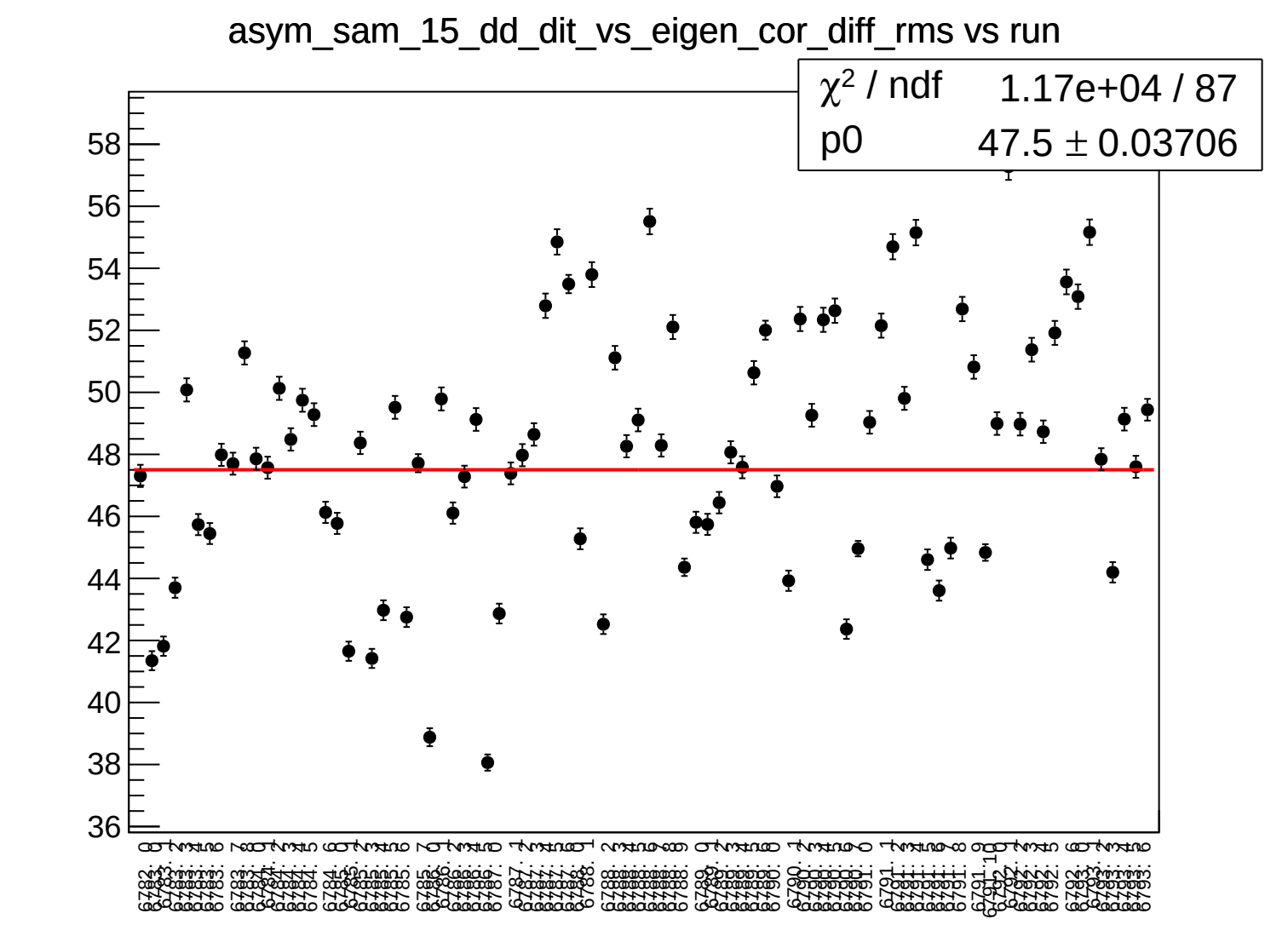

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 87
p0 0.1152 ± 0.05241
pull
Entries 88
Mean −92.49
Std Dev 0

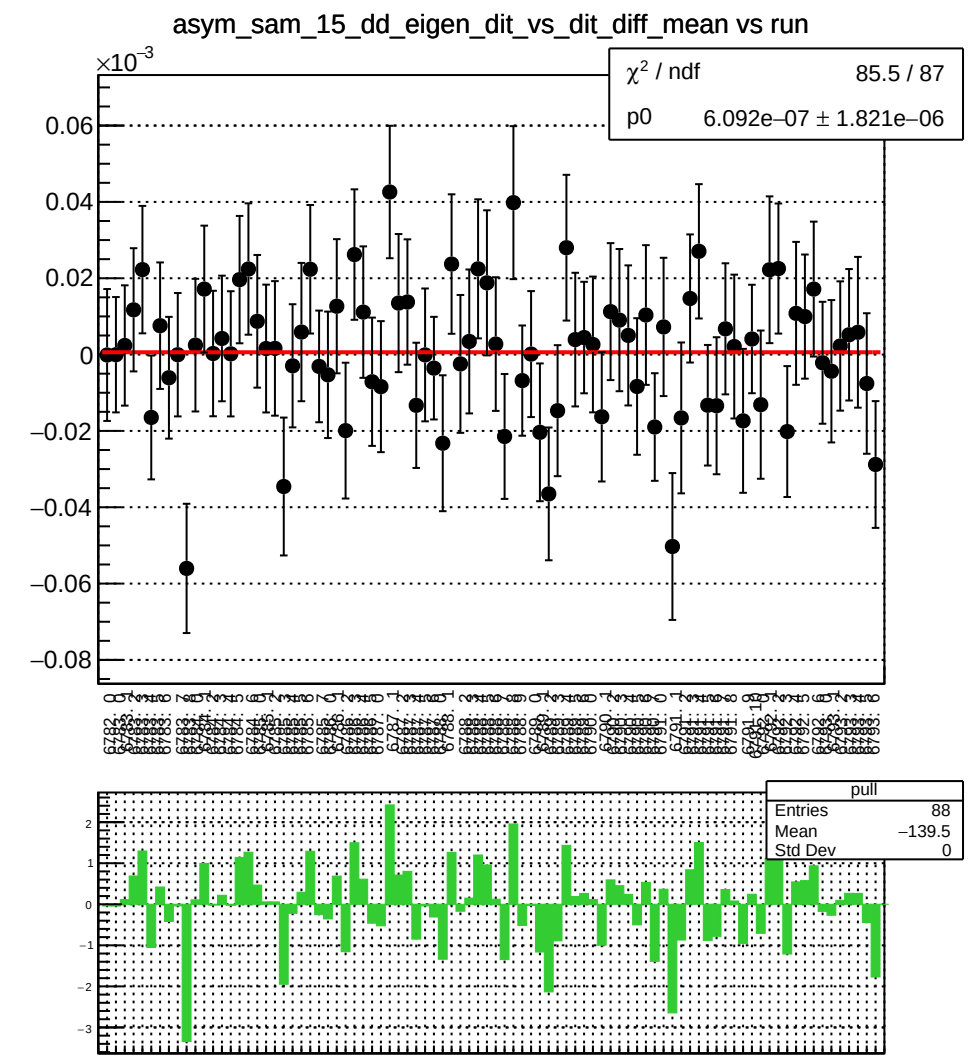

pull1D
Entries 88
Mean 0.019
Std Dev 1.076

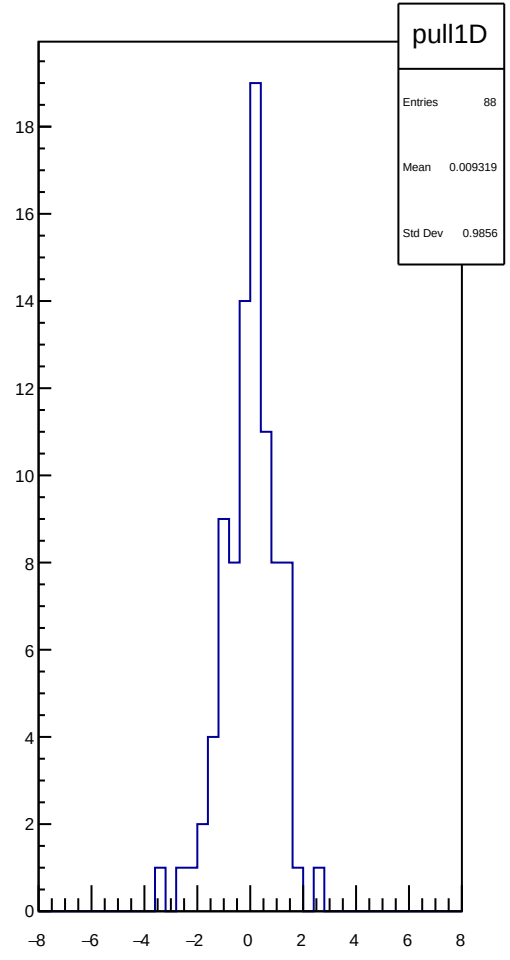

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.17e+04 / 87
p0 47.5 ± 0.03706
58
56
54
52
50
48
46
44
42
40
38
36

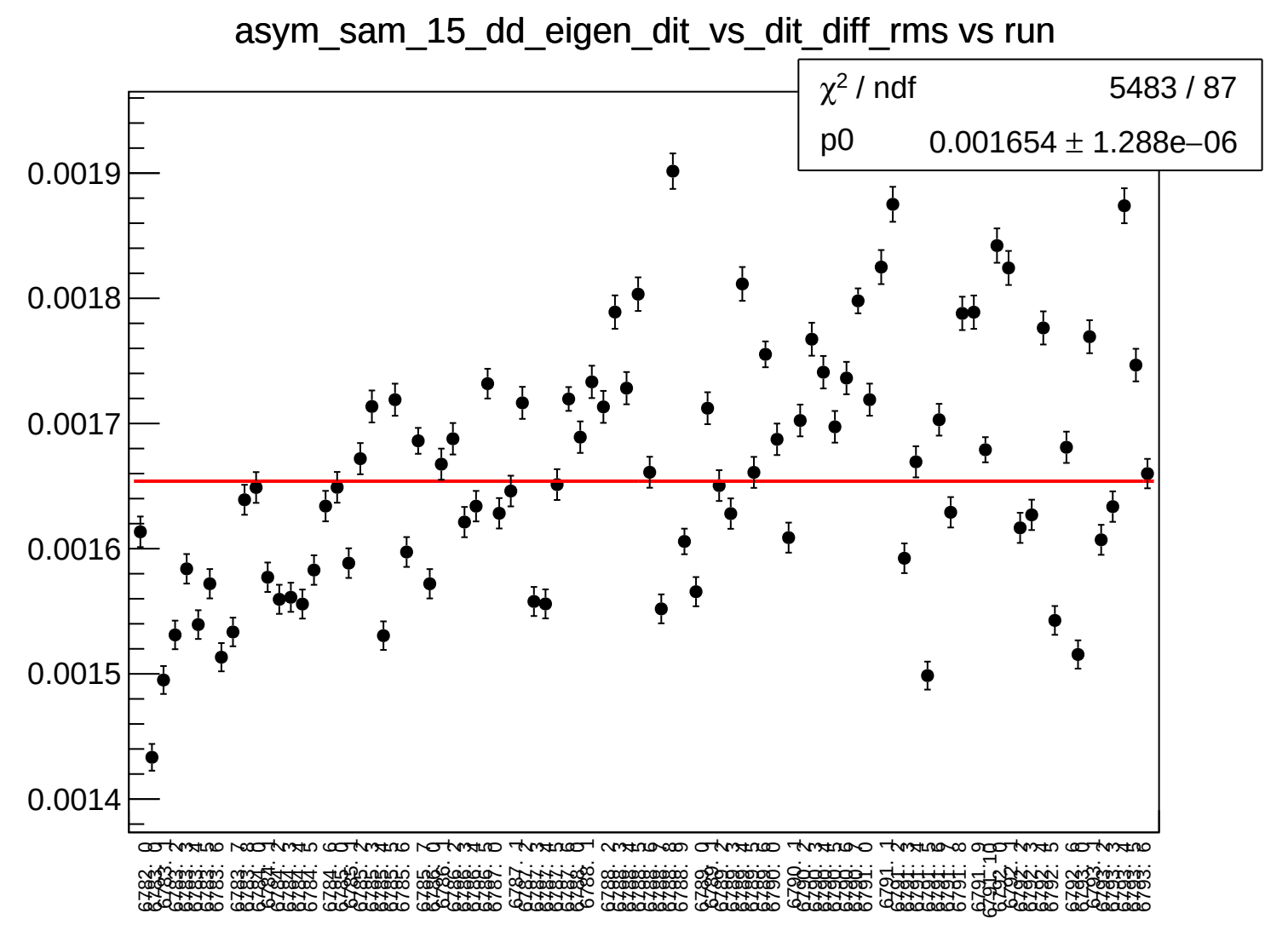

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 87
p0 0.1152 ± 0.05241
pull
Entries 88
Mean −92.49
Std Dev 0

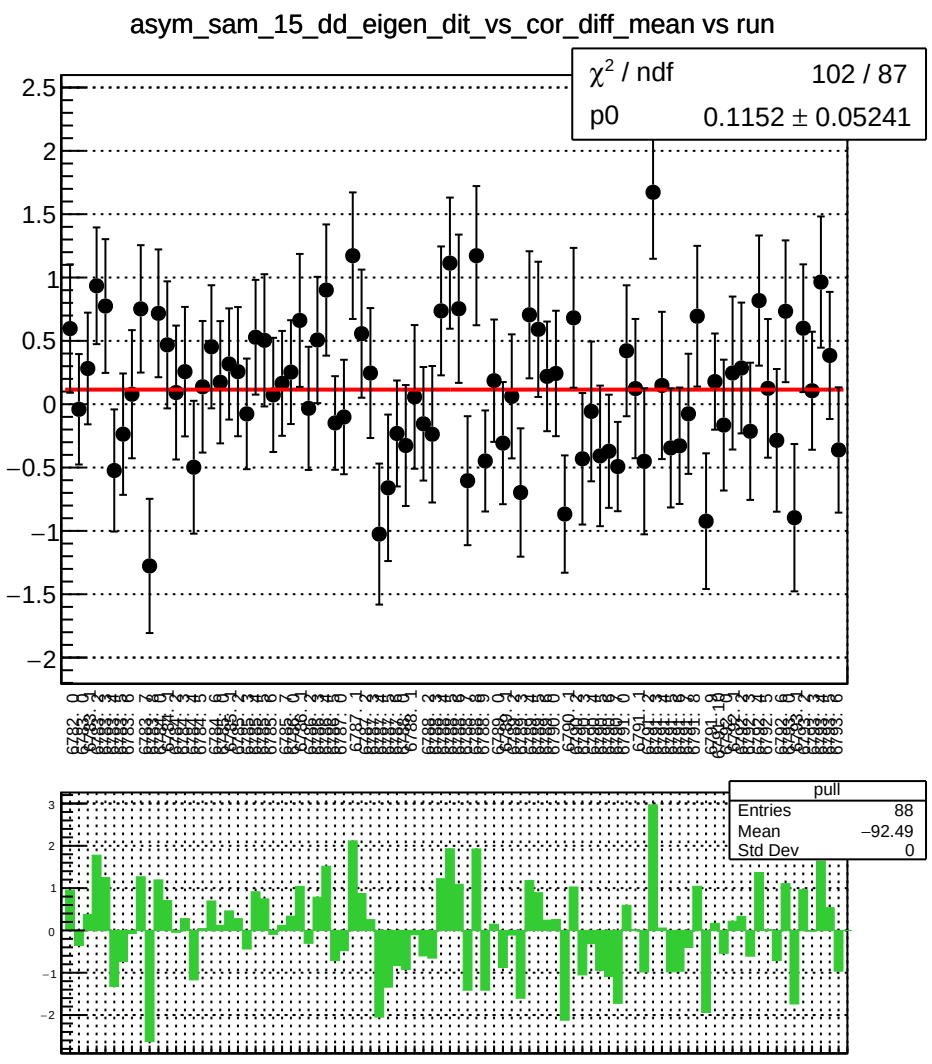

pull1D
Entries 88
Mean 0.019
Std Dev 1.076

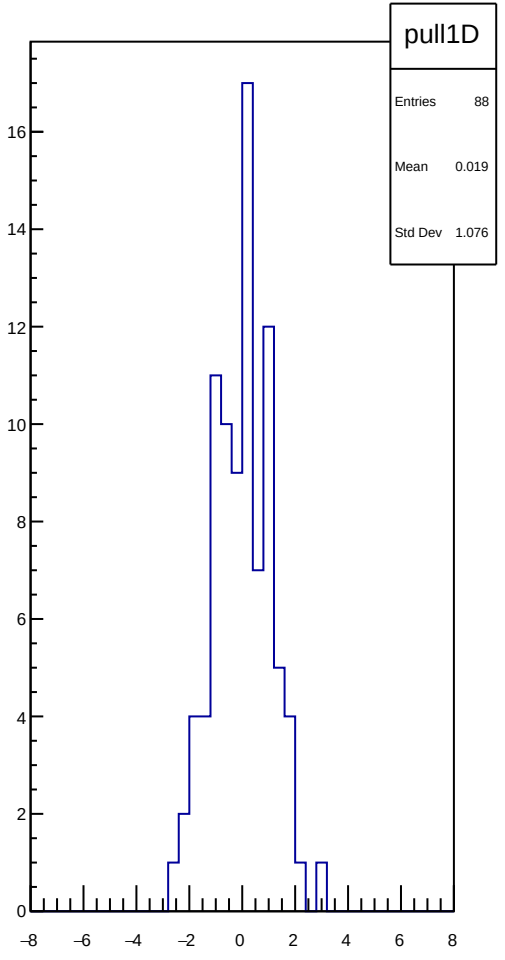

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.17e+04 / 87
p0 47.5 ± 0.03706
58
56
54
52
50
48
46
44
42
40
38
36

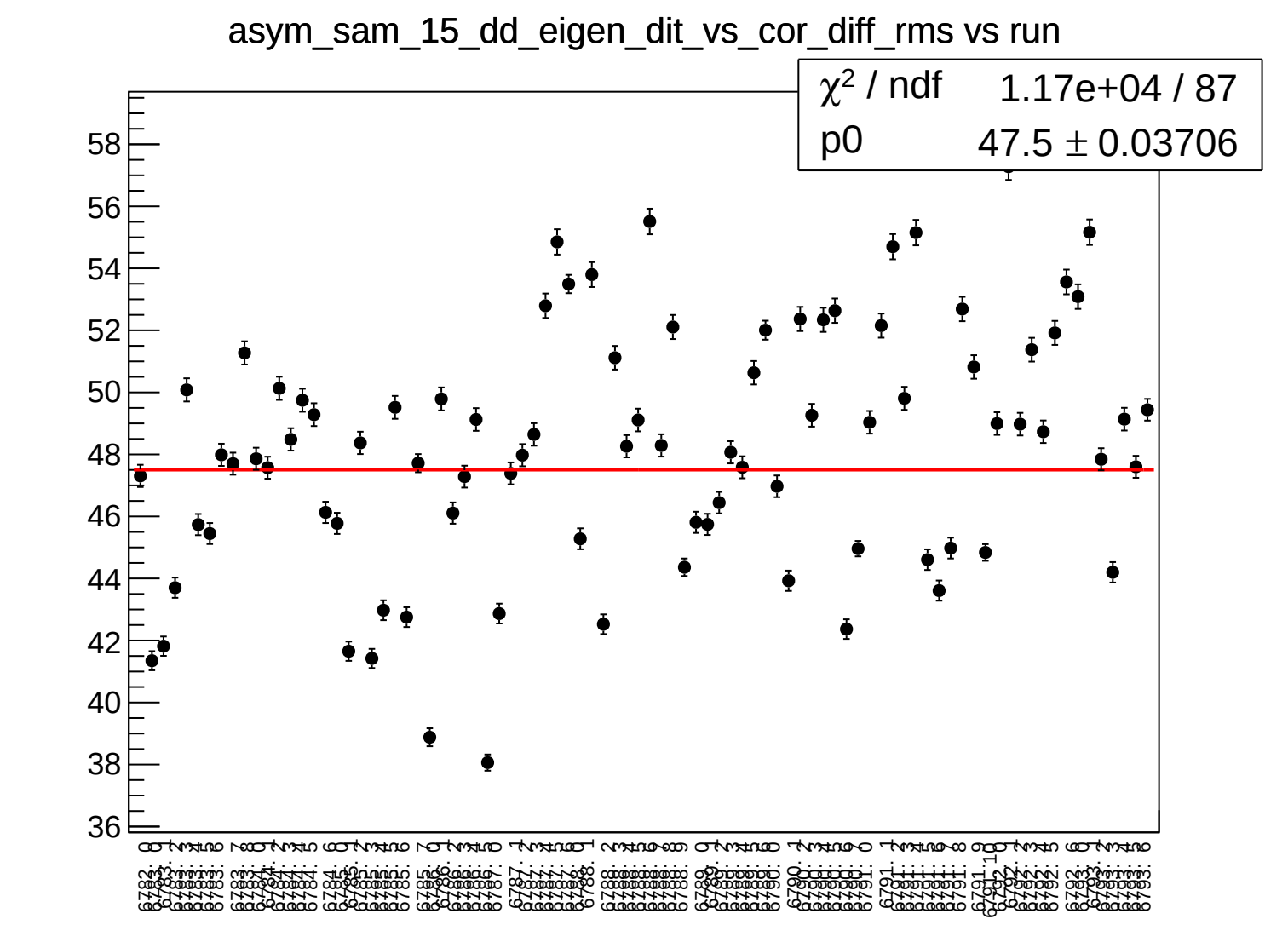

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.5 / 87
p0 6.092e−07 ± 1.821e−06
pull
Entries 88
Mean −139.5
Std Dev 0

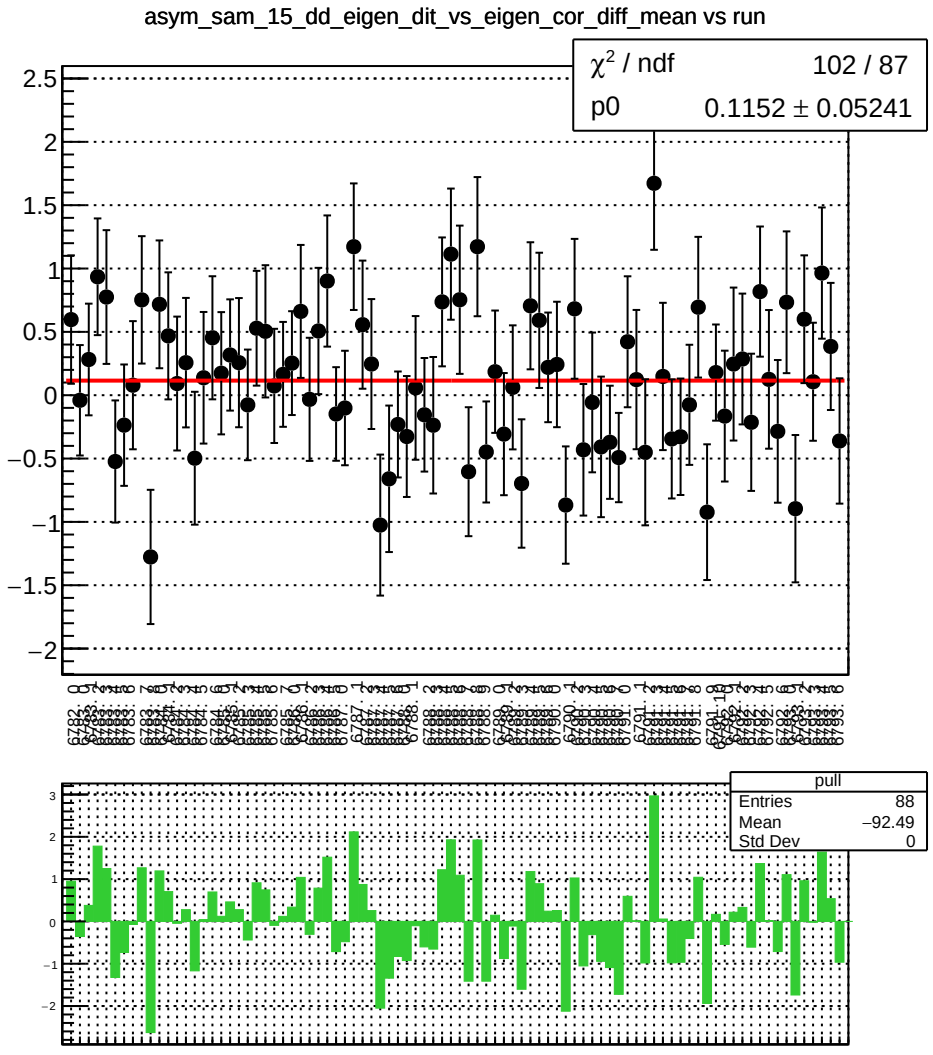

pull1D
Entries 88
Mean 0.009319
Std Dev 0.9856

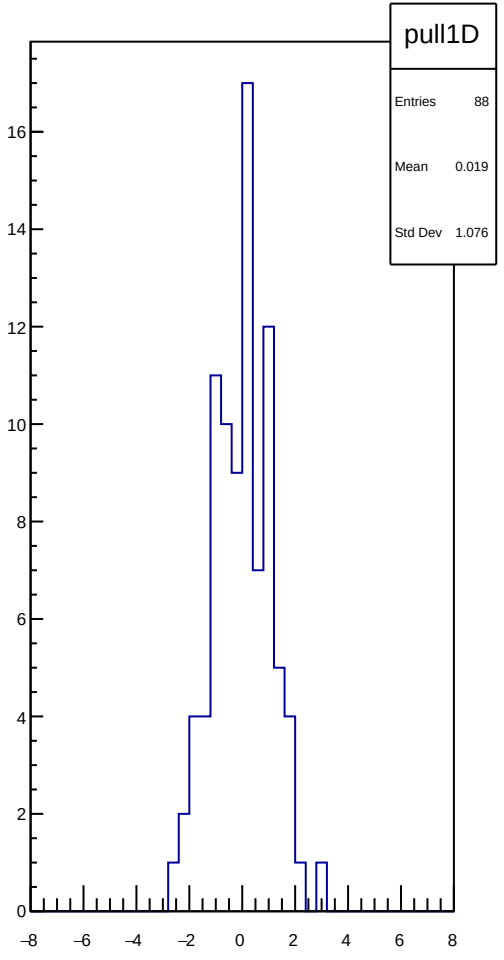

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5483 / 87
p0 0.001654 ± 1.288e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

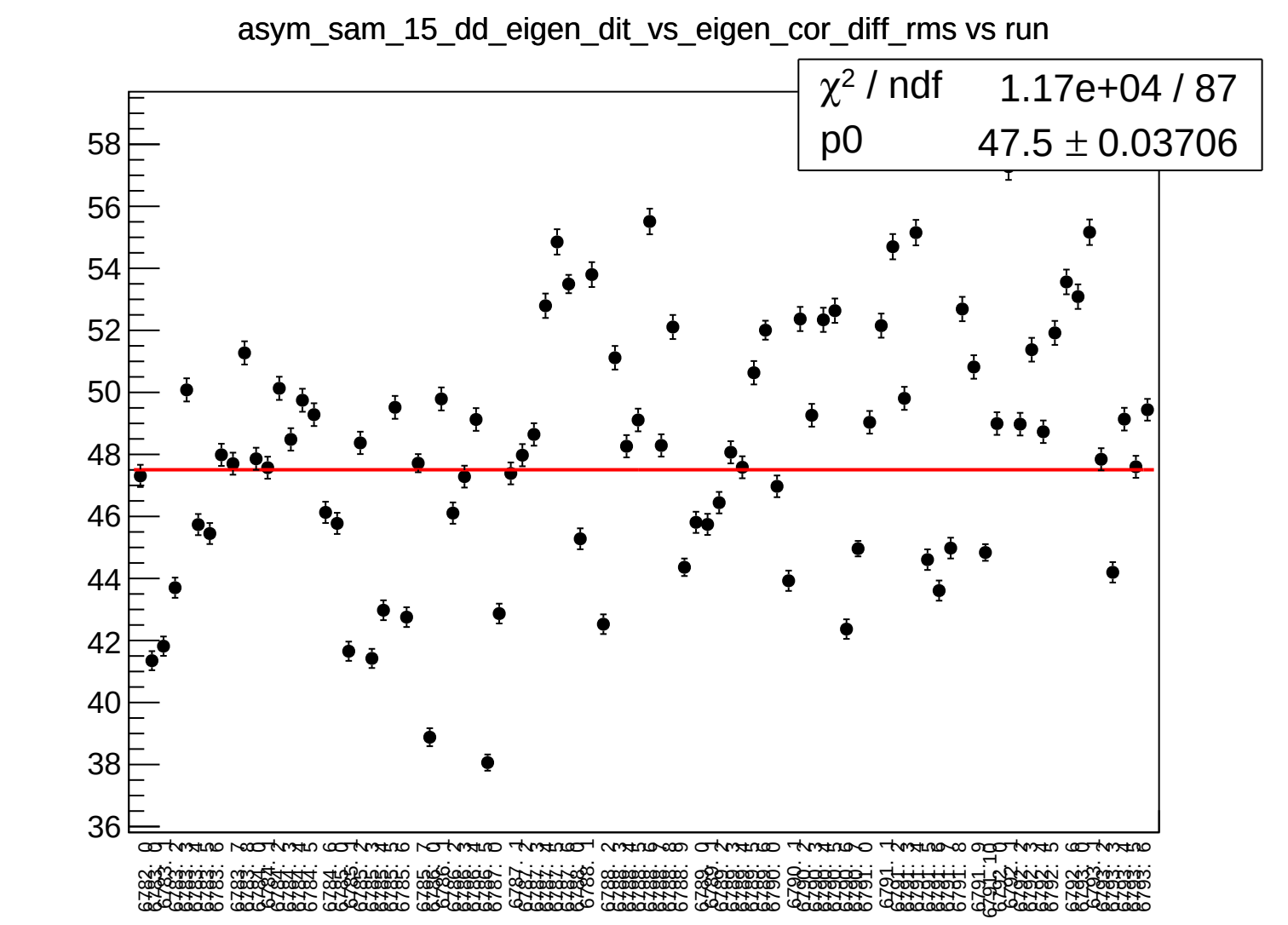

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 87
p0 0.1152 ± 0.05241
pull
Entries 88
Mean −92.49
Std Dev 0

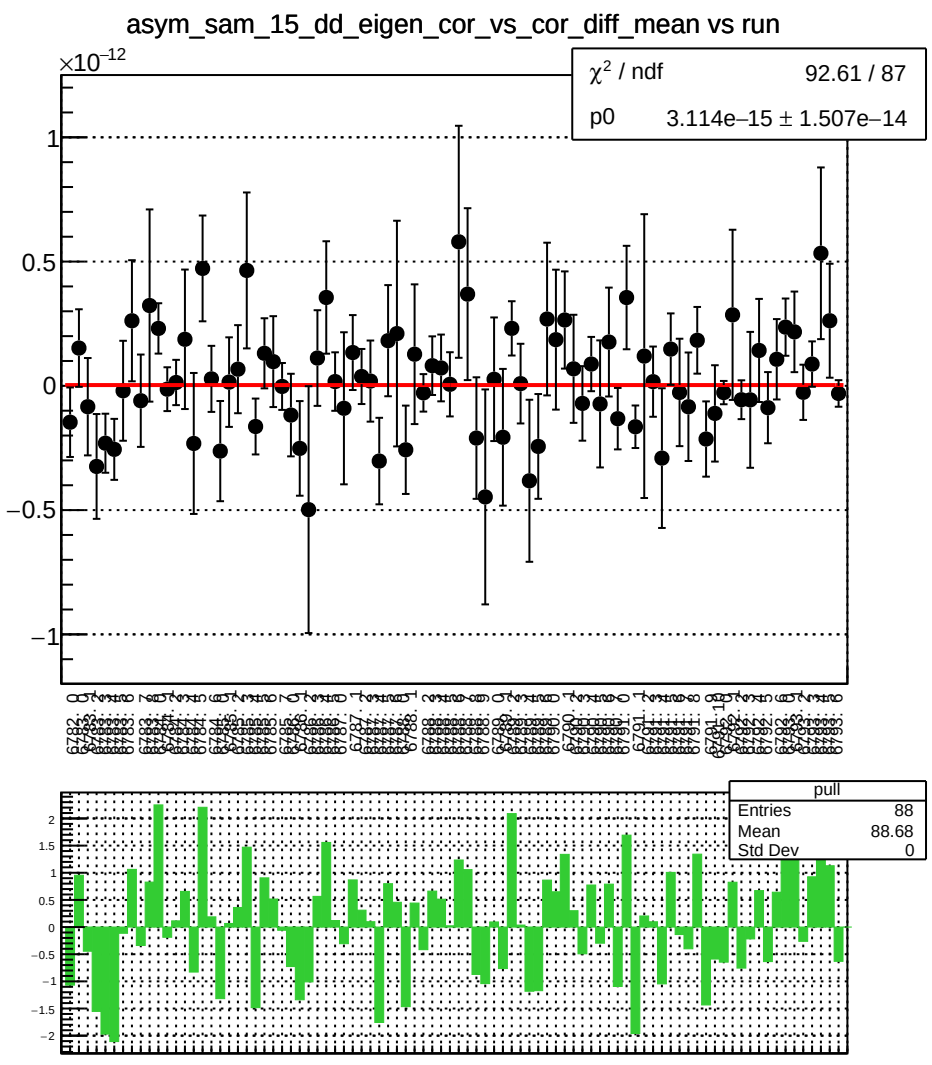

pull1D
Entries 88
Mean 0.019
Std Dev 1.076

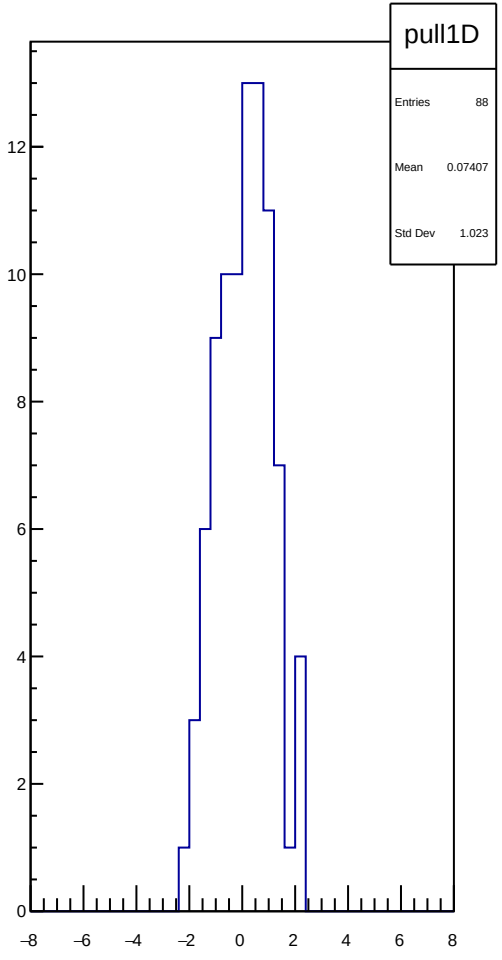

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.17e+04 / 87
p0 47.5 ± 0.03706
58
56
54
52
50
48
46
44
42
40
38
36

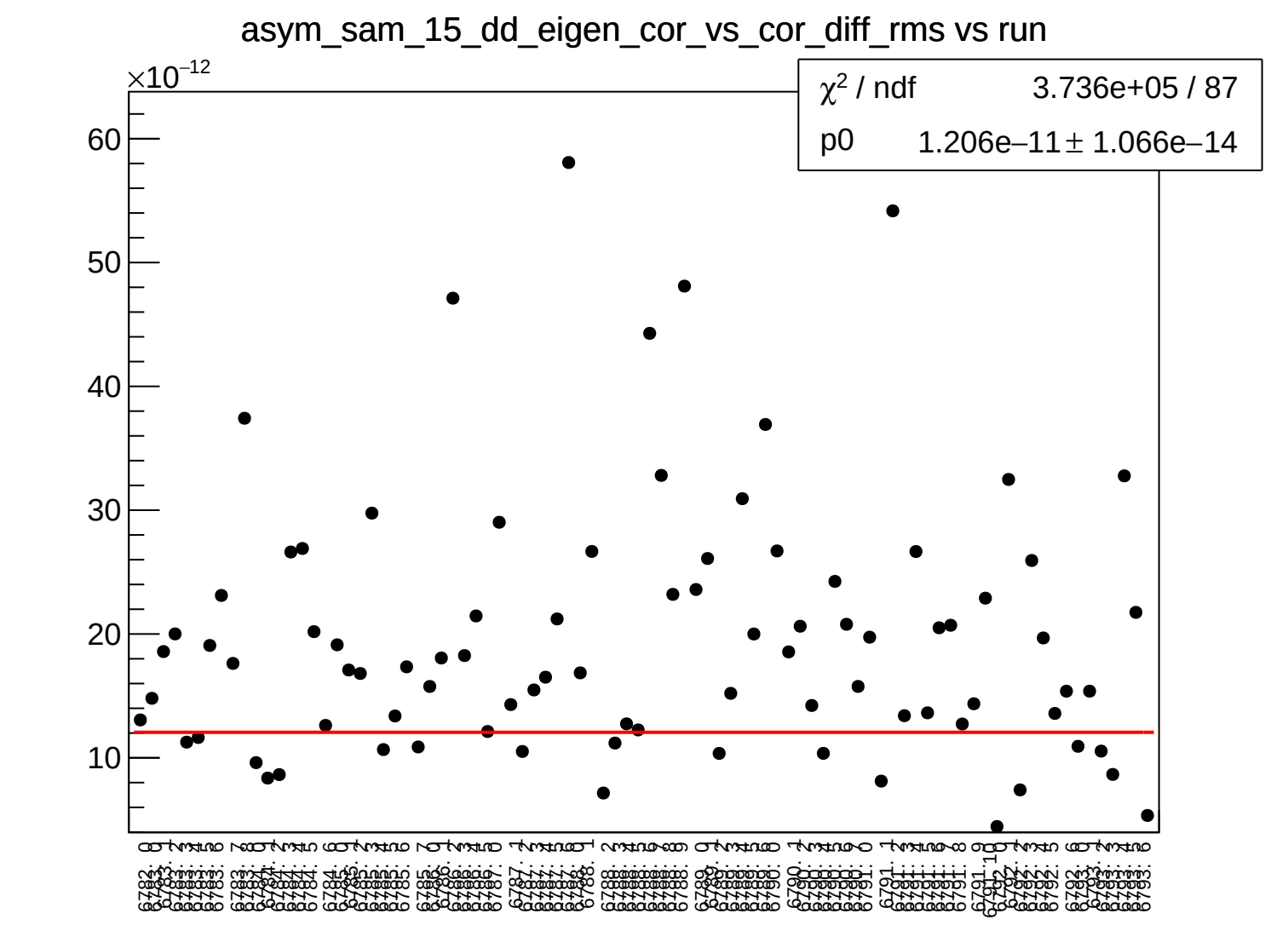

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 87
p0 0.1152 ± 0.05241
pull
Entries 88
Mean −92.49
Std Dev 0

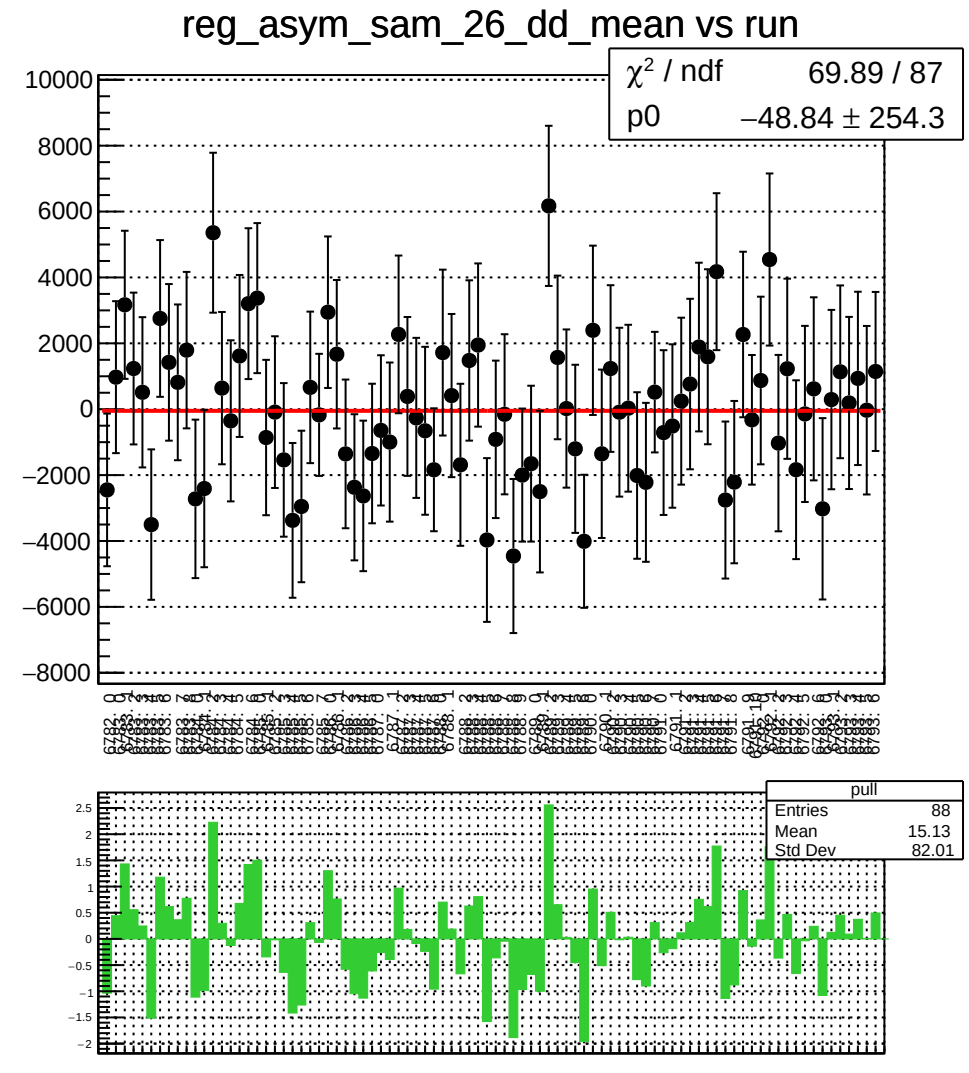

pull1D
Entries 88
Mean 0.019
Std Dev 1.076

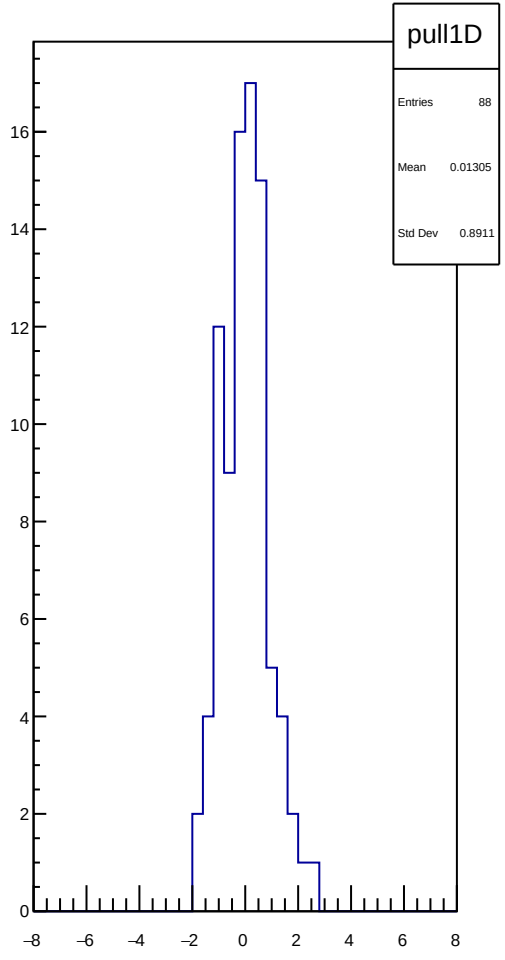

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.17e+04 / 87
p0 47.5 ± 0.03706
58
56
54
52
50
48
46
44
42
40
38
36

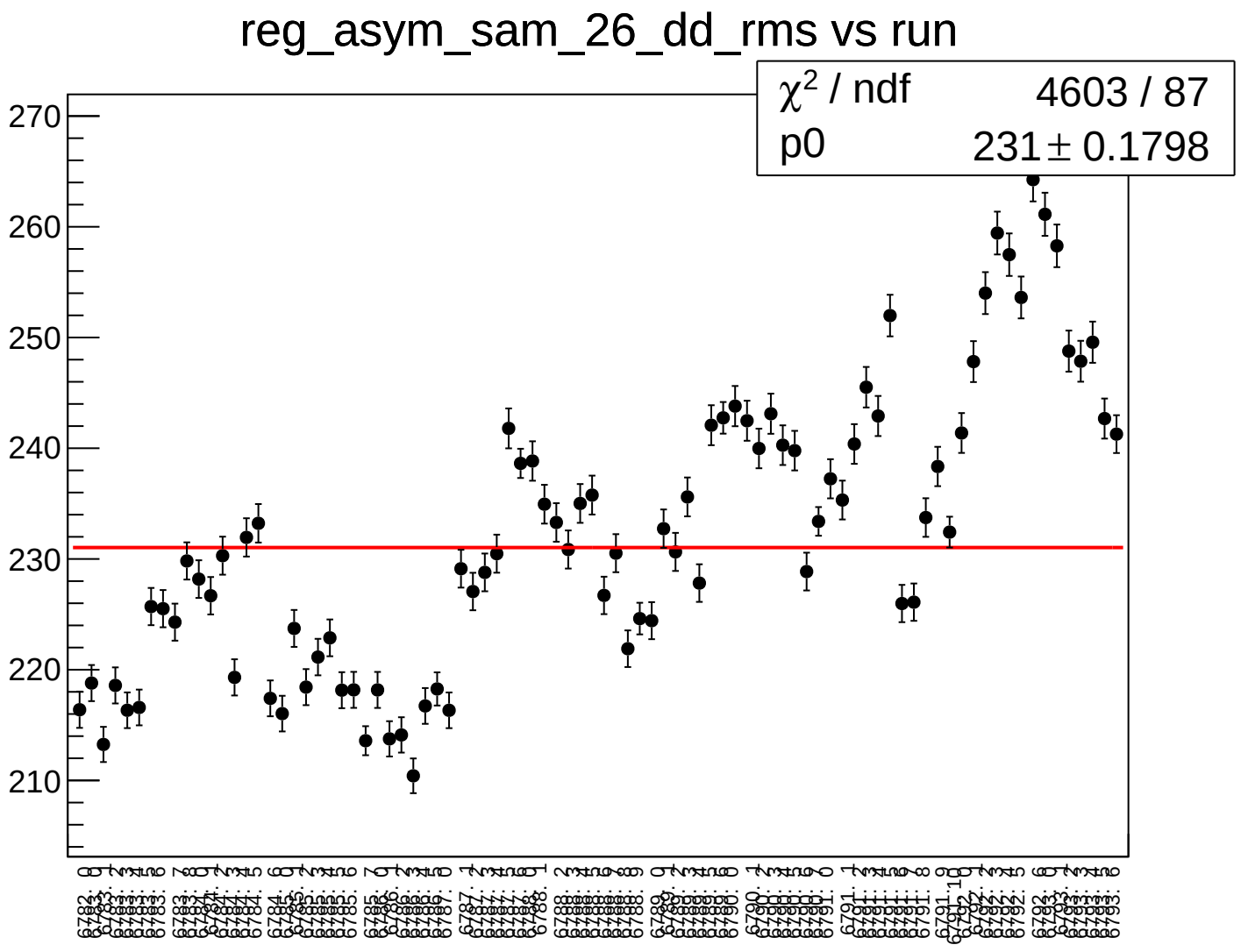

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.61 / 87
p0 3.114e−15 ± 1.507e−14
pull
Entries 88
Mean 88.68
Std Dev 0

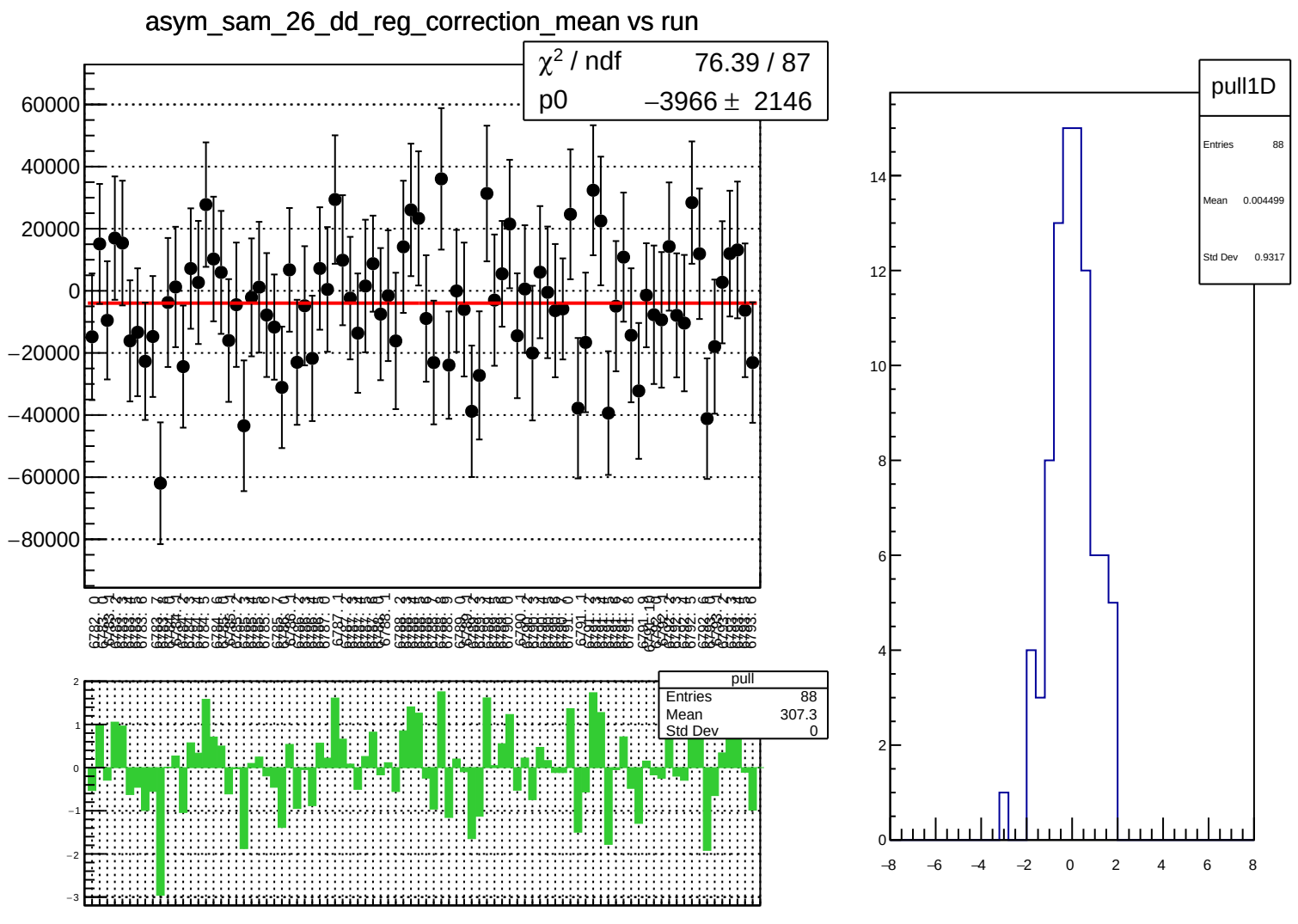

pull1D
Entries 88
Mean 0.07407
Std Dev 1.023

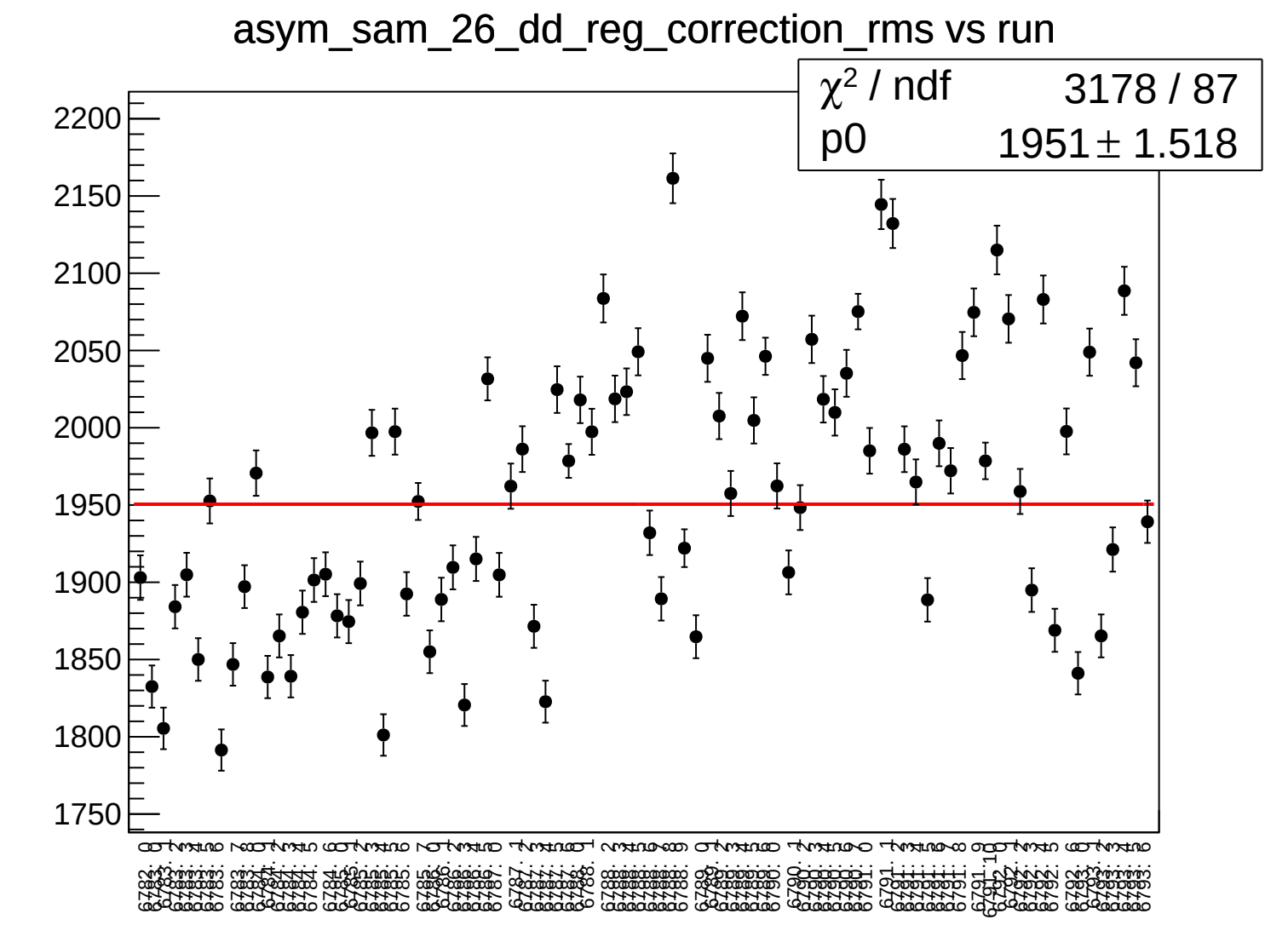

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.736e+05 / 87
p0 1.206e−11 ± 1.066e−14
60
50
40
30
20
10

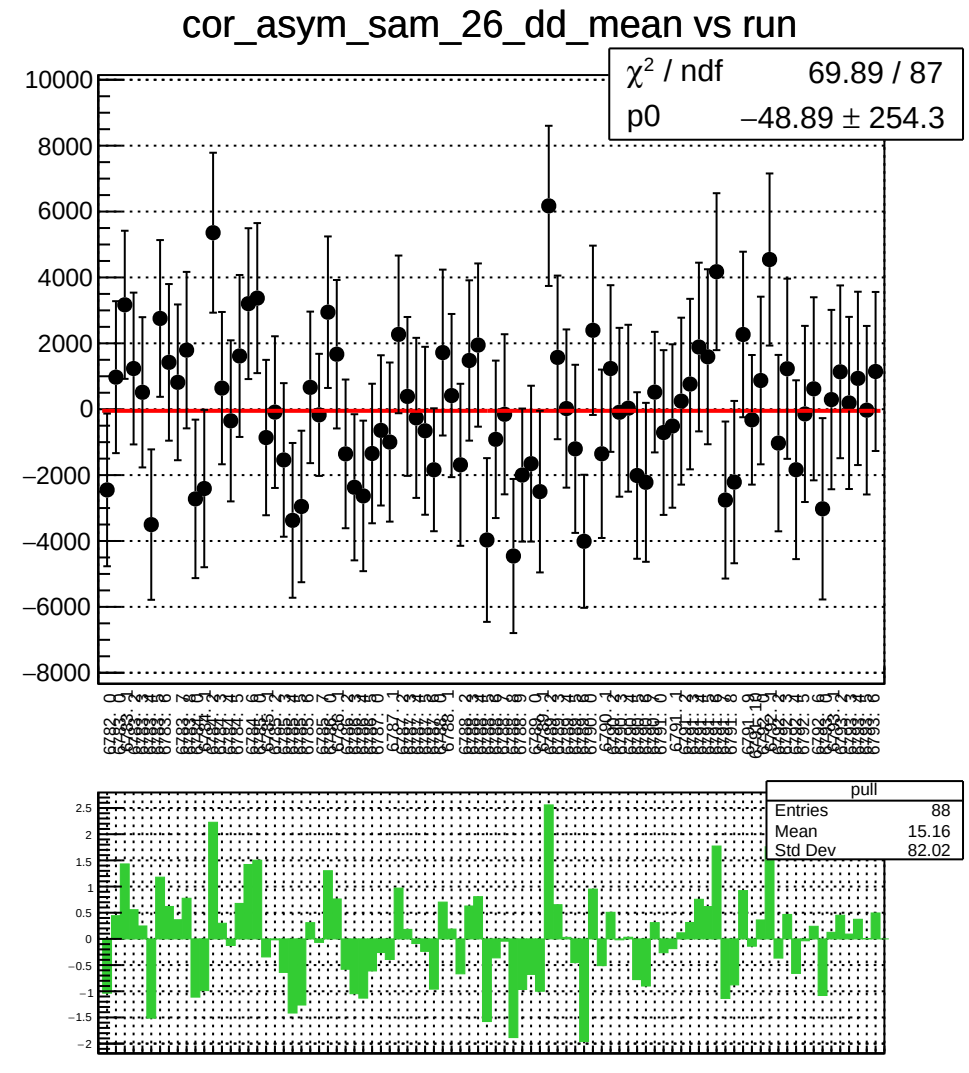

reg_asym_sam_26_dd_mean vs run
χ² / ndf 69.89 / 87
p0 −48.84 ± 254.3
pull
Entries 88
Mean 15.13
Std Dev 82.01

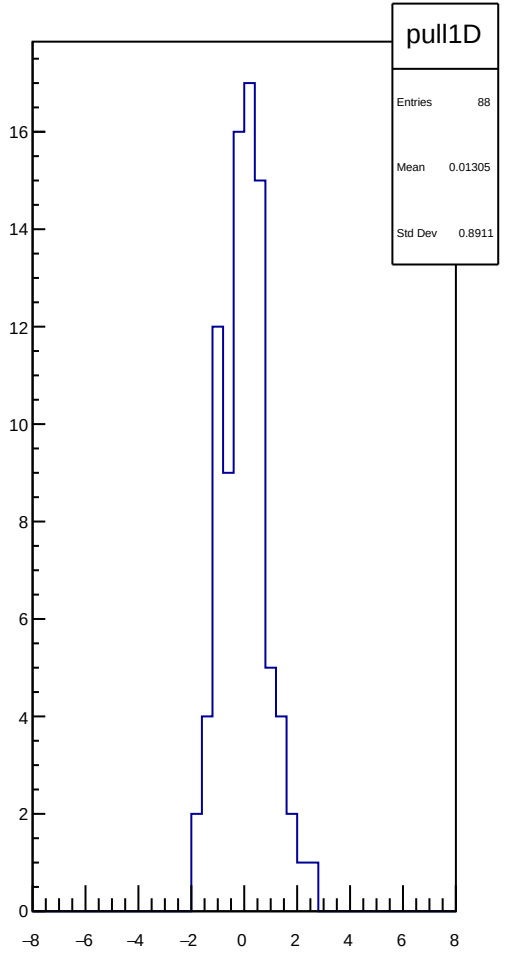

pull1D
Entries 88
Mean 0.01305
Std Dev 0.8911

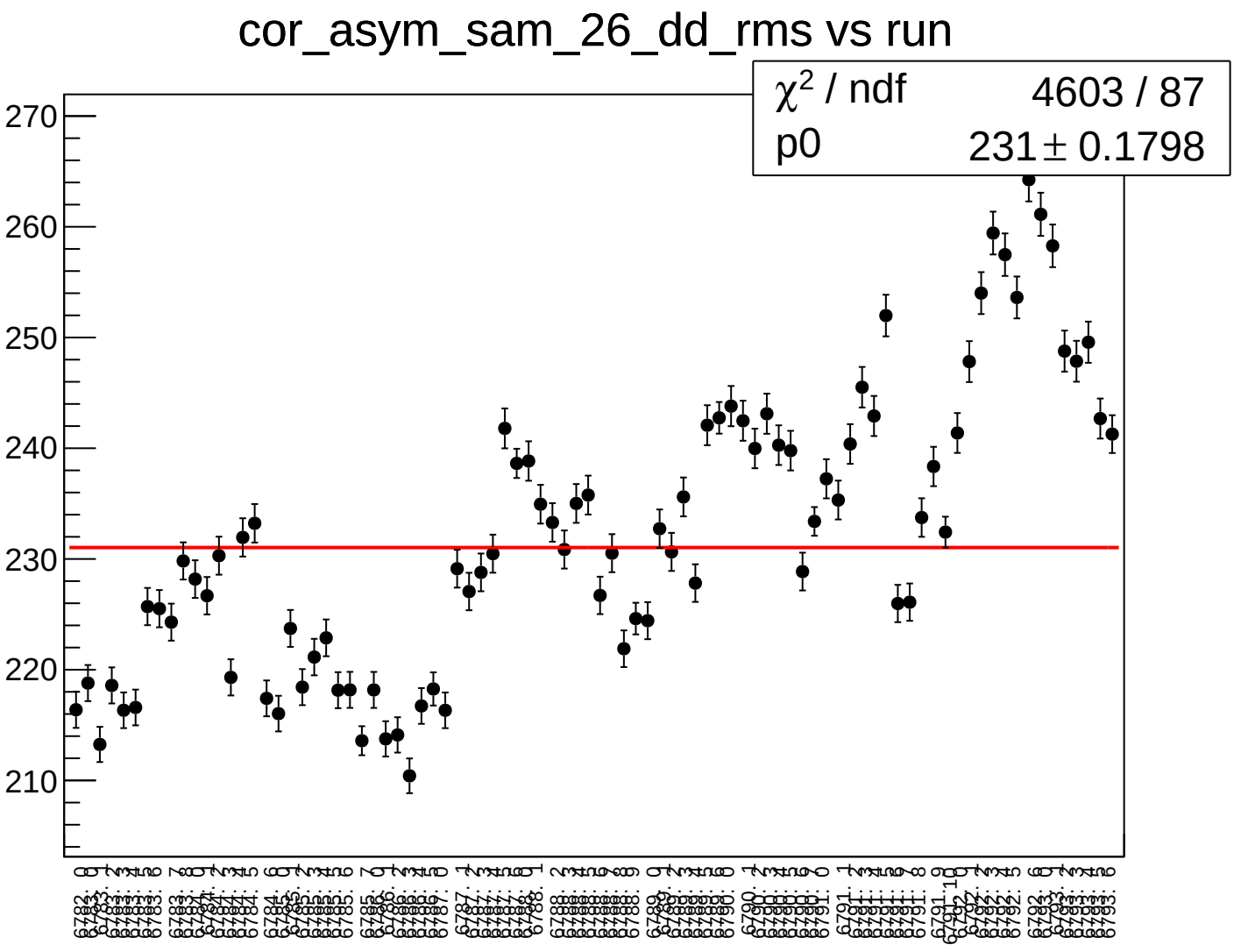

reg_asym_sam_26_dd_rms vs run
χ² / ndf 4603 / 87
p0 231 ± 0.1798
270
260
250
240
230
220
210

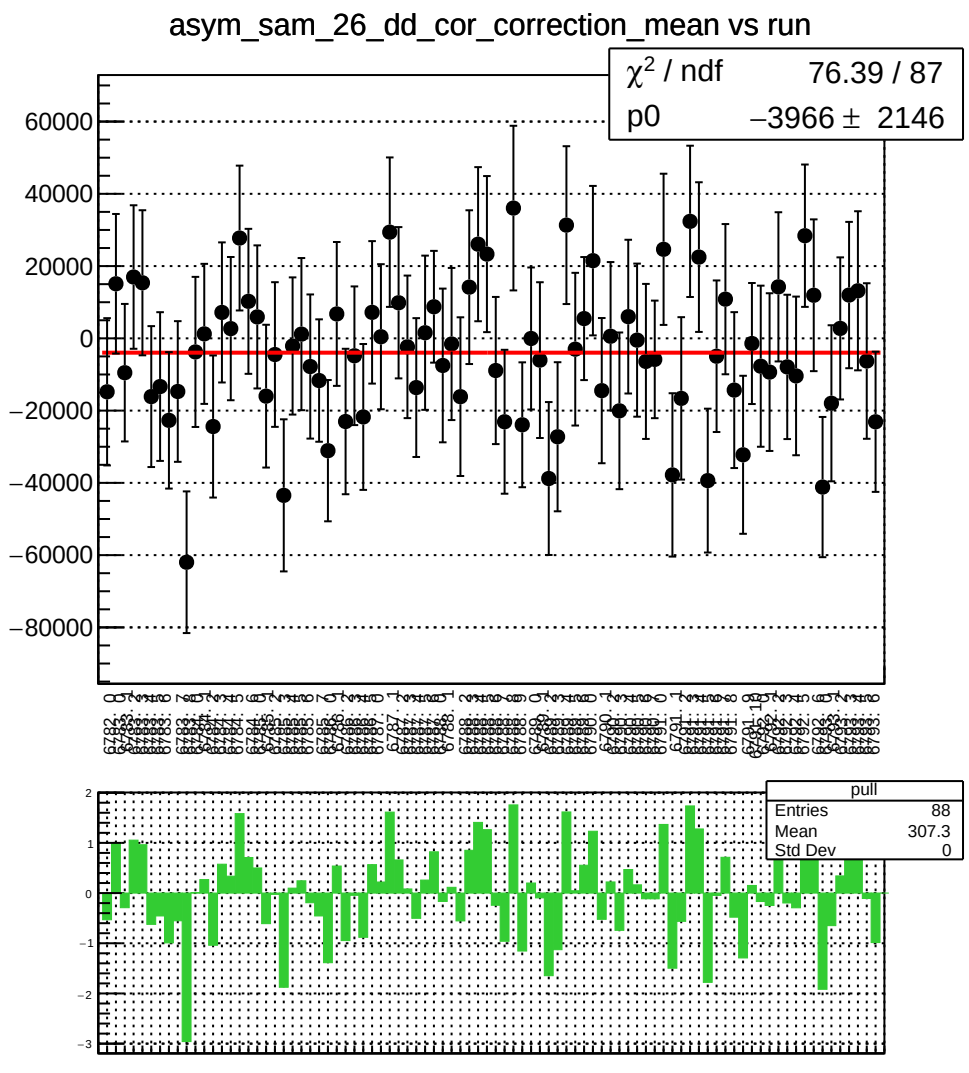

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 76.39 / 87
p0 −3966 ± 2146
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 307.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.004499
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

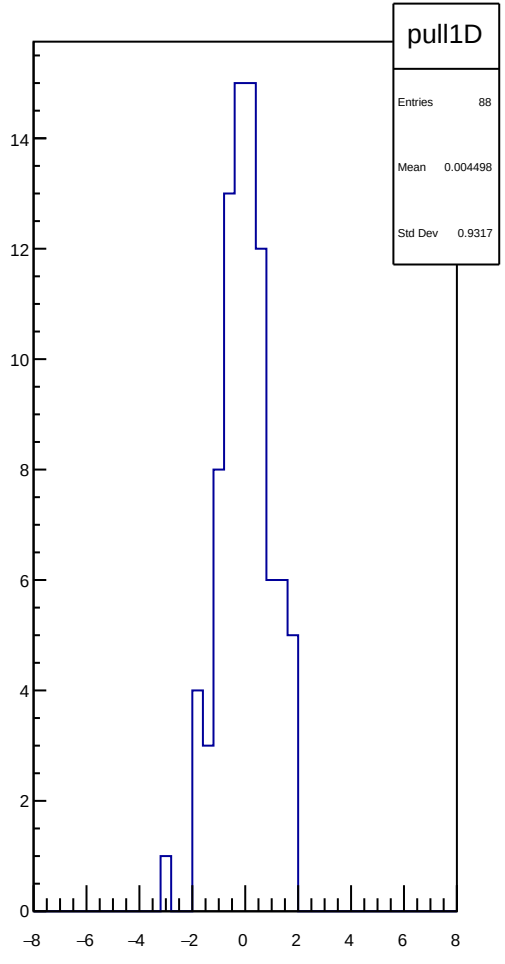

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3178 / 87
p0 1951 ± 1.518
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

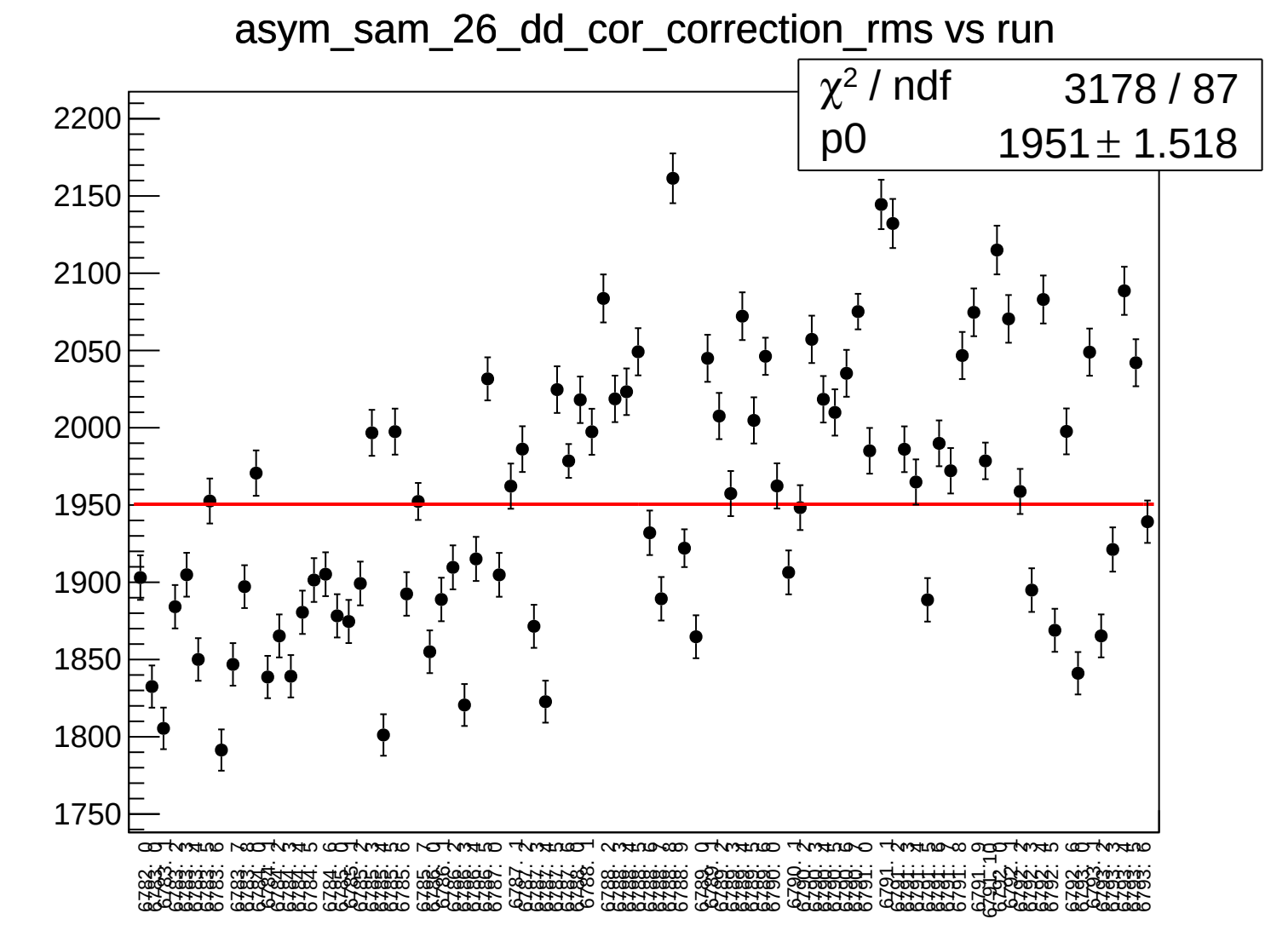

cor_asym_sam_26_dd_mean vs run
χ² / ndf 69.89 / 87
p0 −48.89 ± 254.3
pull
Entries 88
Mean 15.16
Std Dev 82.02

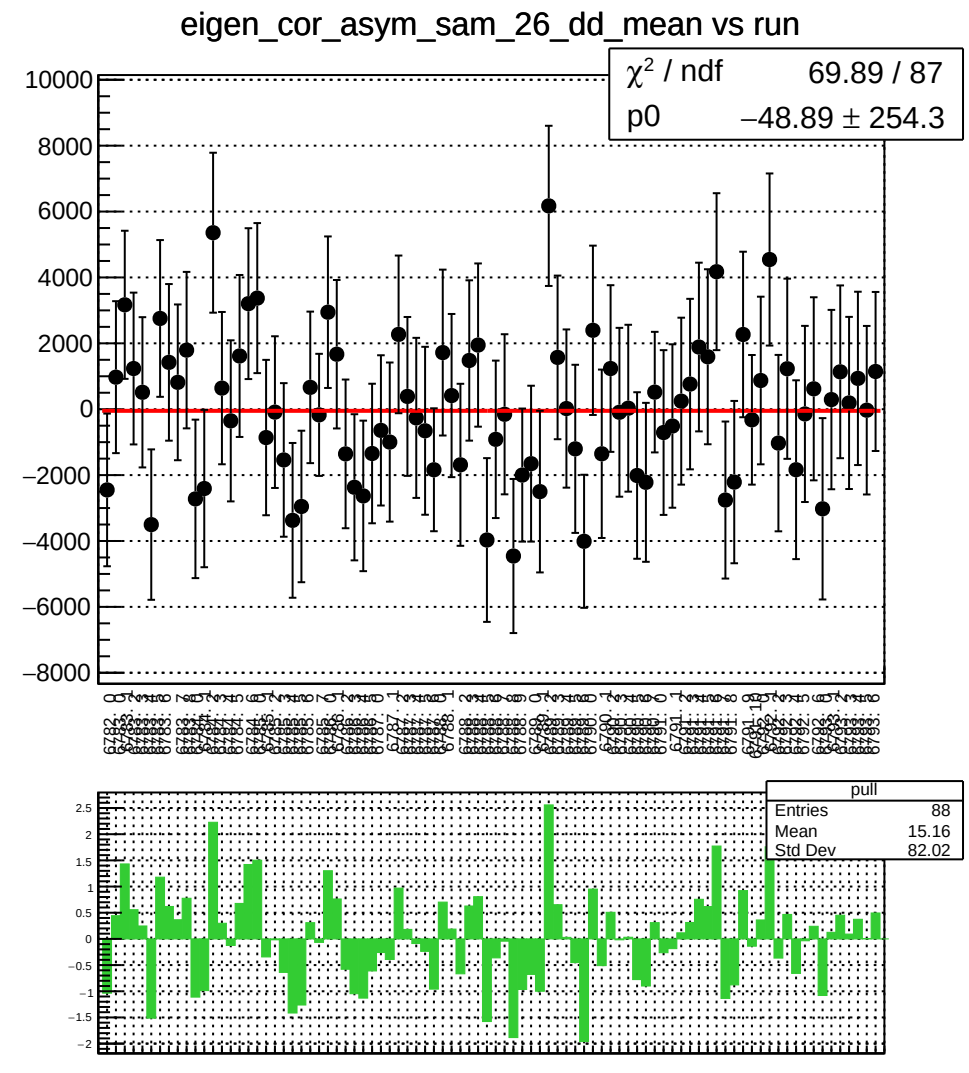

pull1D
Entries 88
Mean 0.01305
Std Dev 0.8911

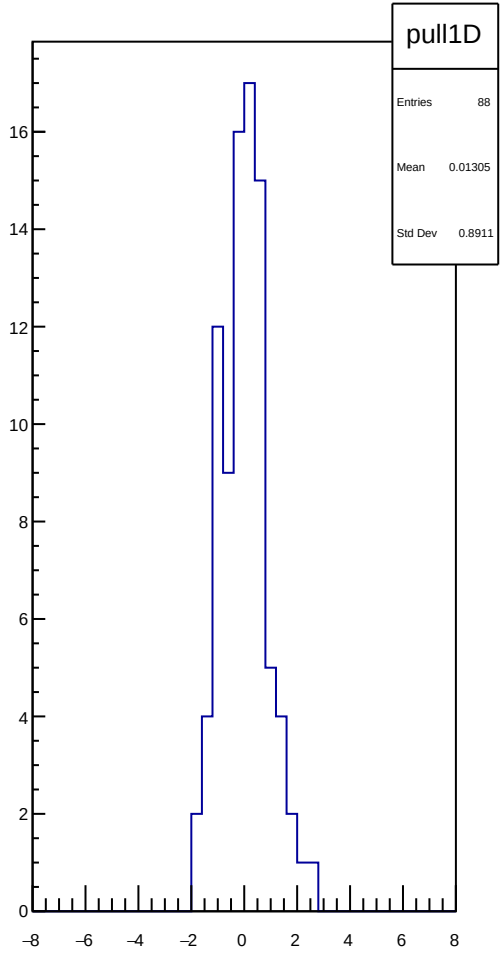

cor_asym_sam_26_dd_rms vs run
χ^2 / ndf 4603 / 87
p0 231 ± 0.1798
270
260
250
240
230
220
210

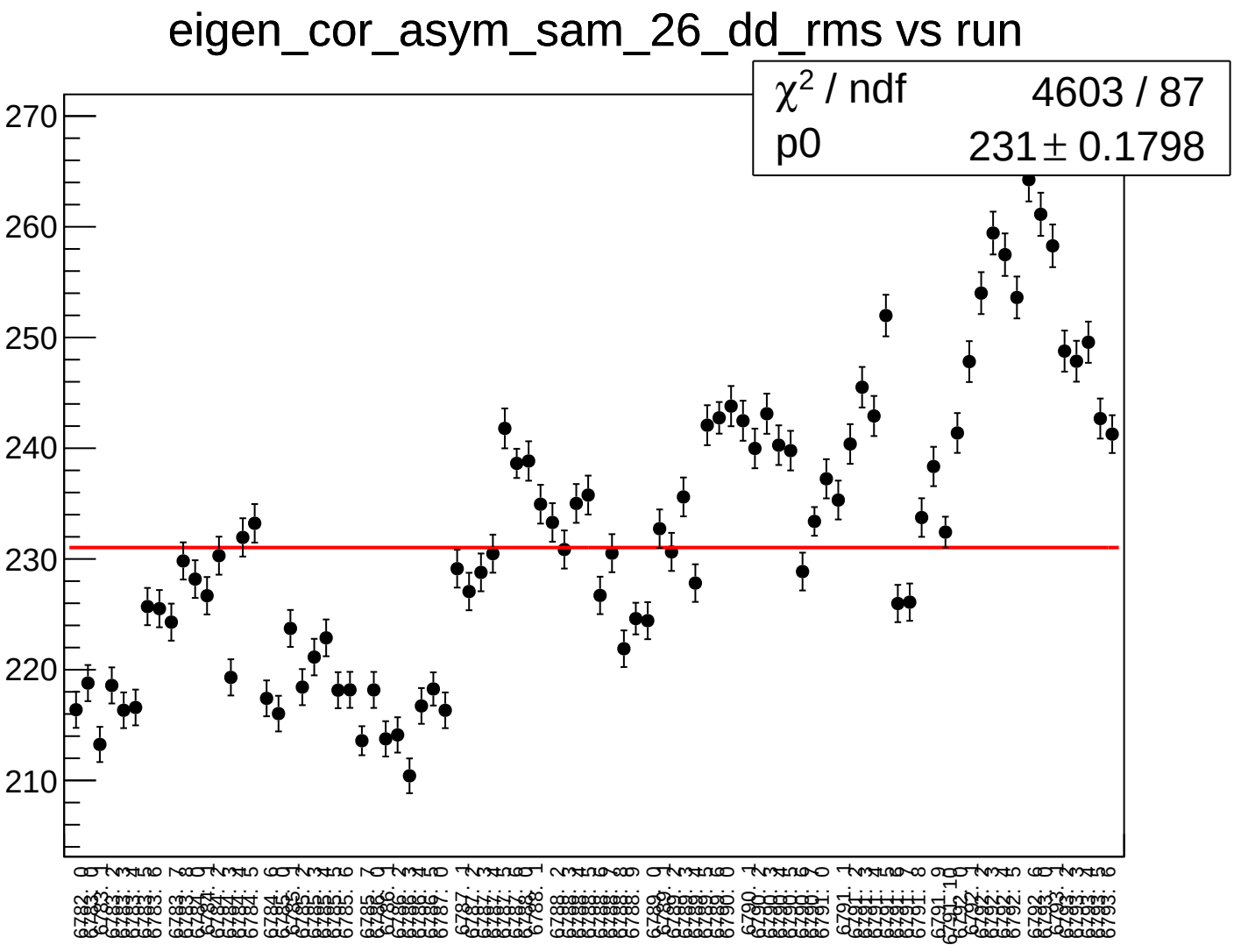

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 76.39 / 87
p0 −3966 ± 2146
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 307.3
Std Dev 0
2
1
0
−1
−2
−3

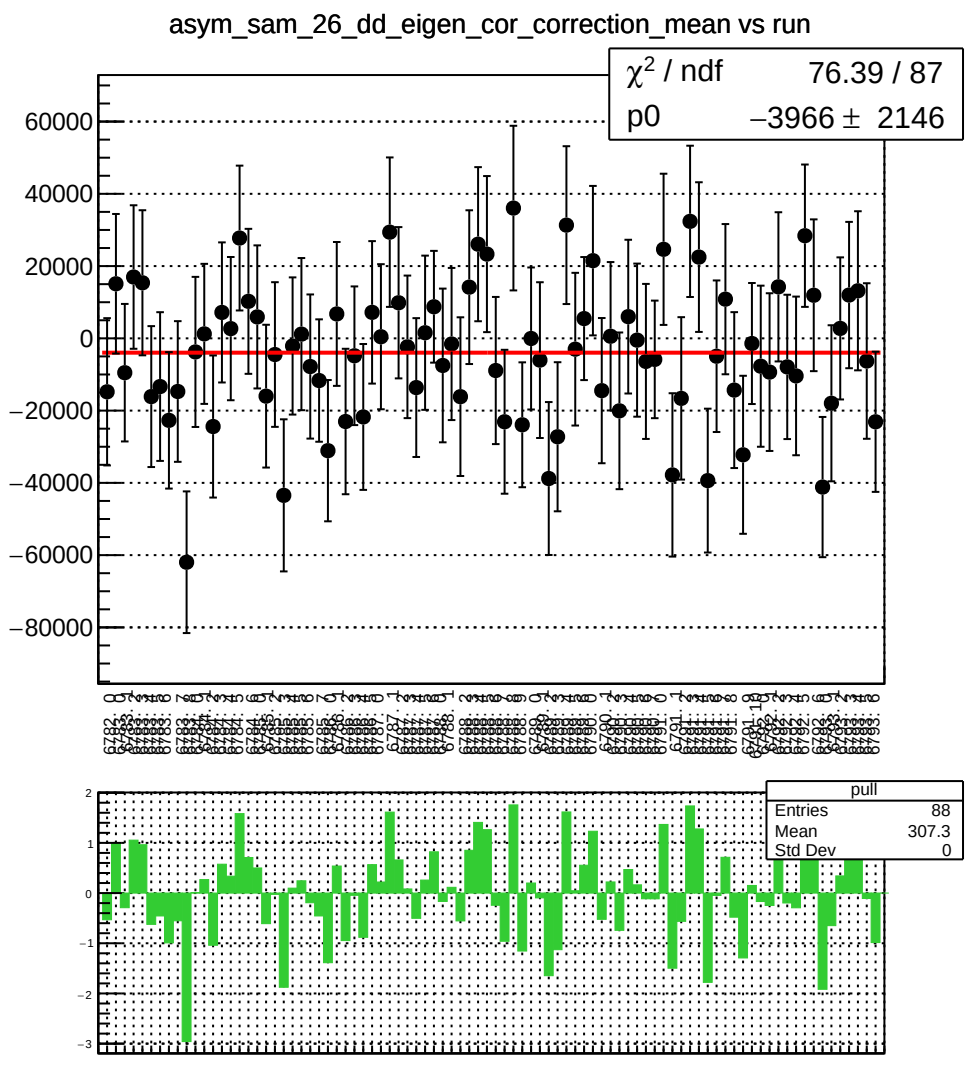

pull1D
Entries 88
Mean 0.004498
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

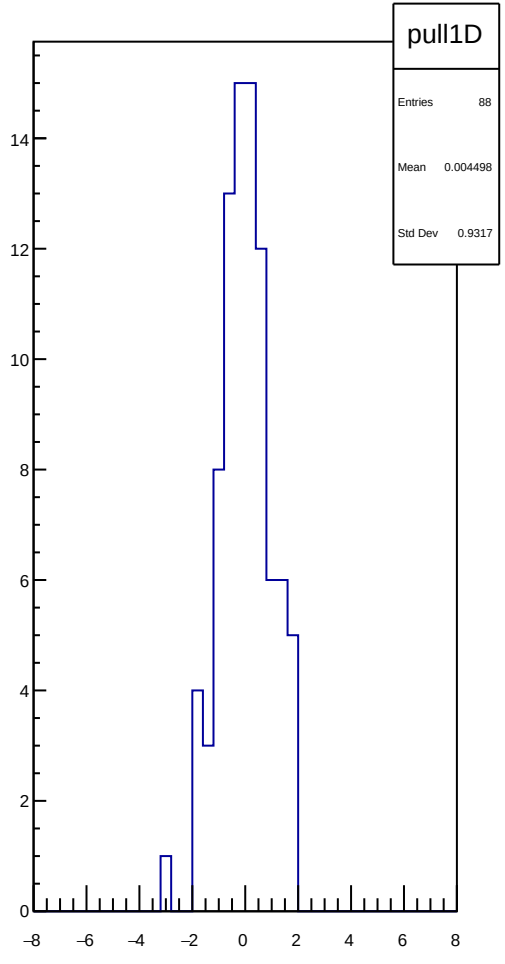

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3178 / 87
p0 1951 ± 1.518
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

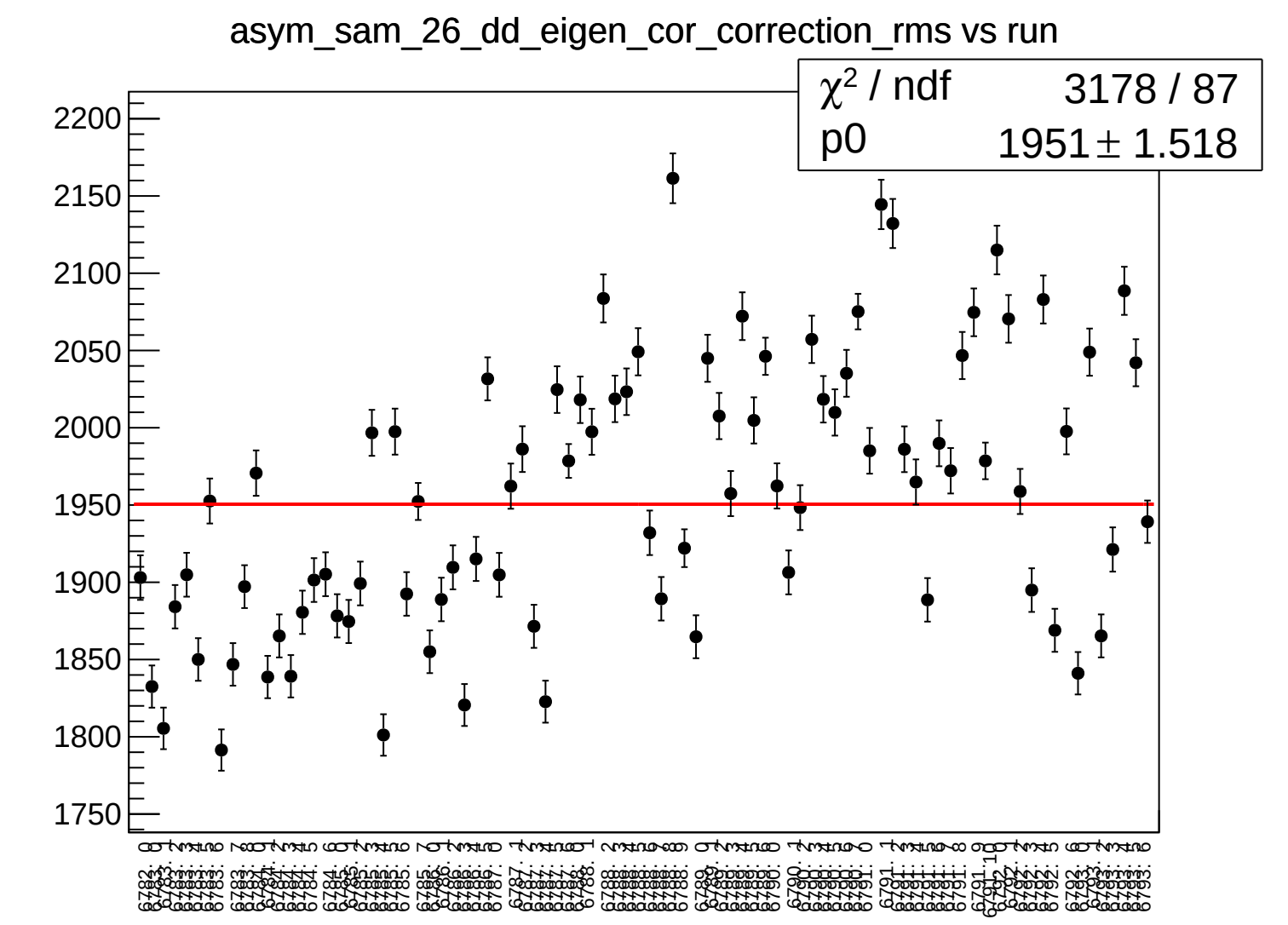

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 69.89 / 87
p0 −48.89 ± 254.3
pull
Entries 88
Mean 15.16
Std Dev 82.02

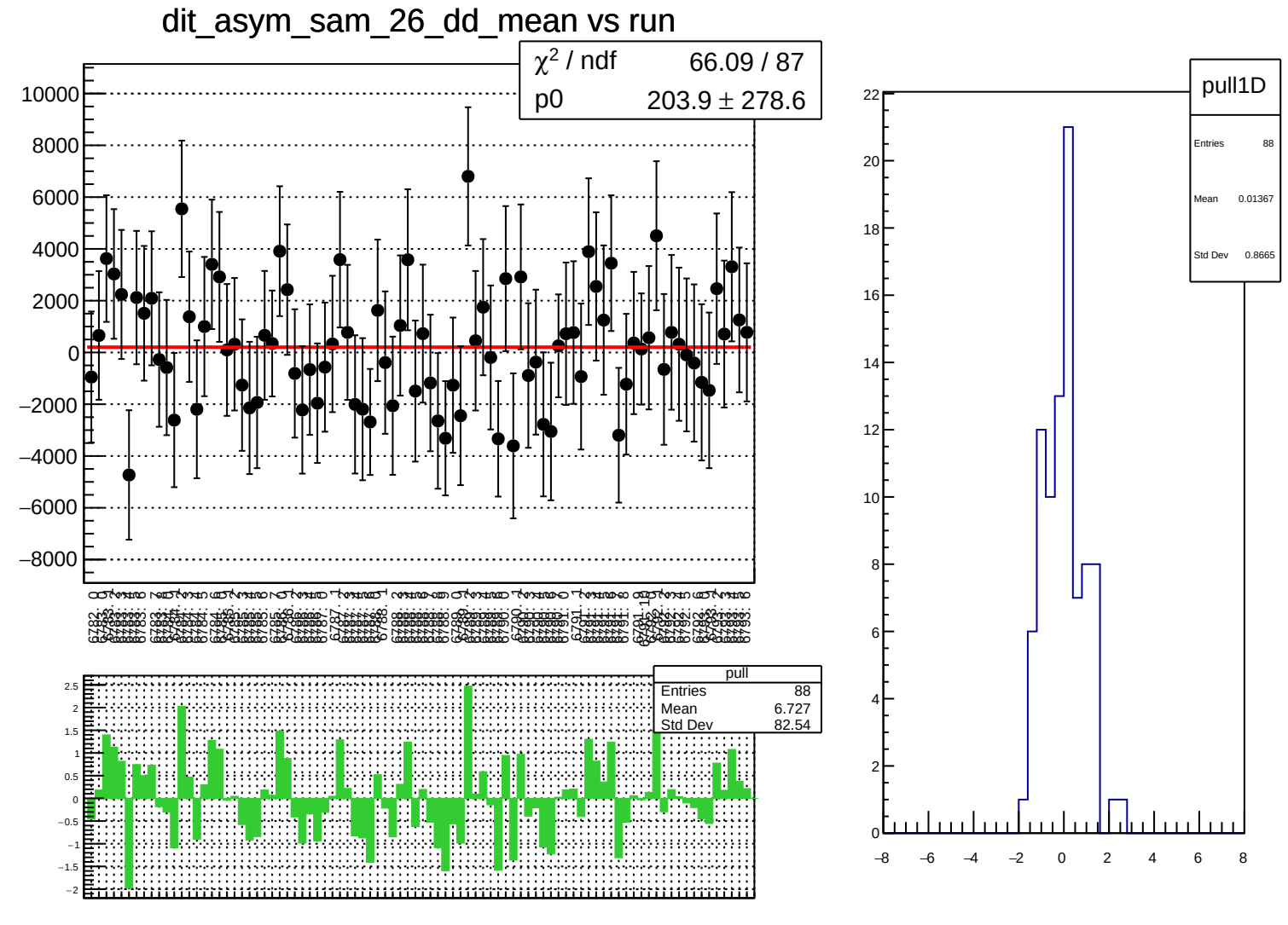

pull1D
Entries 88
Mean 0.01305
Std Dev 0.8911

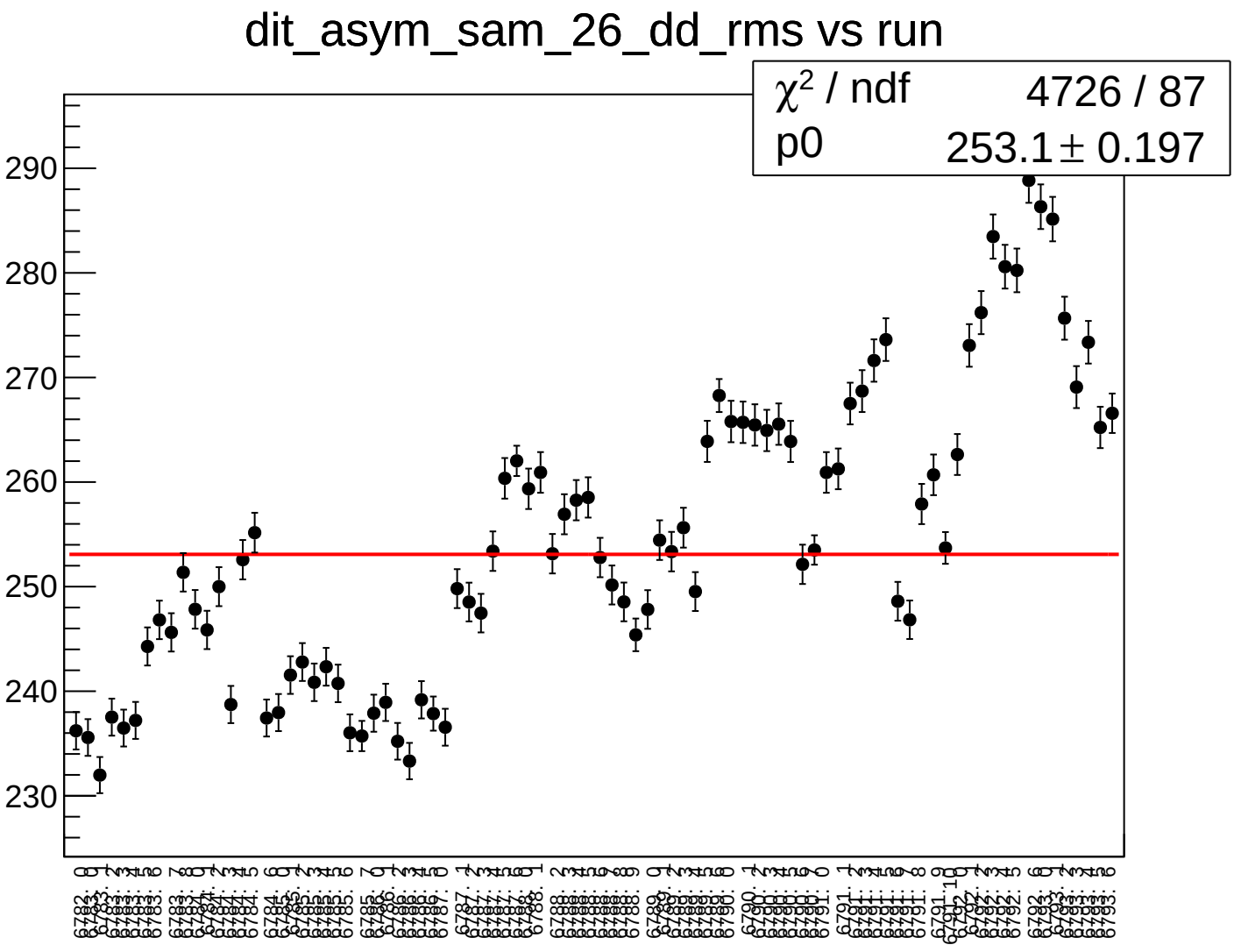

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 4603 / 87
p0 231 ± 0.1798
270
260
250
240
230
220
210

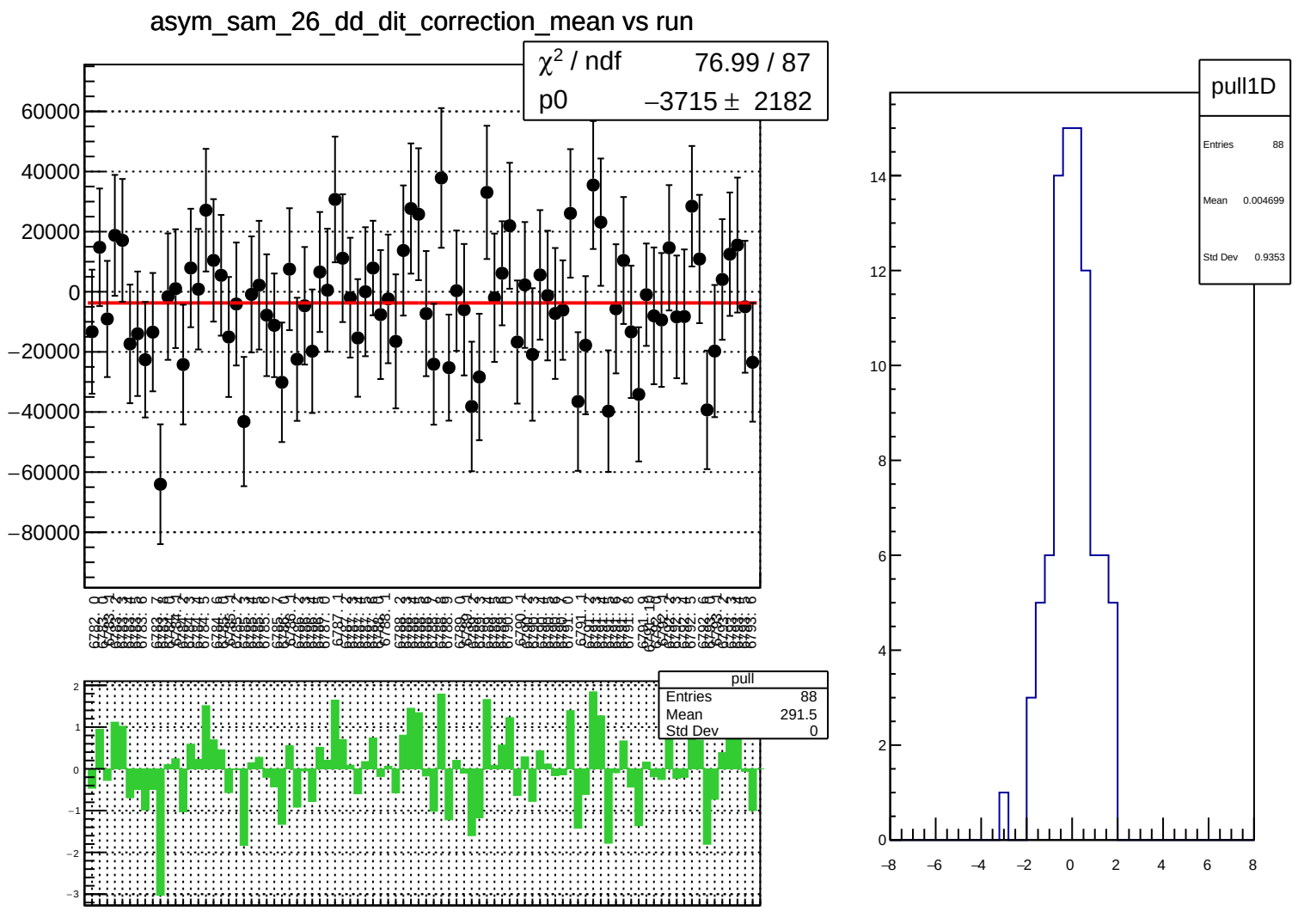

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.39 / 87
p0 −3966 ± 2146
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 307.3
Std Dev 0
2
1
0
−1
−2
−3

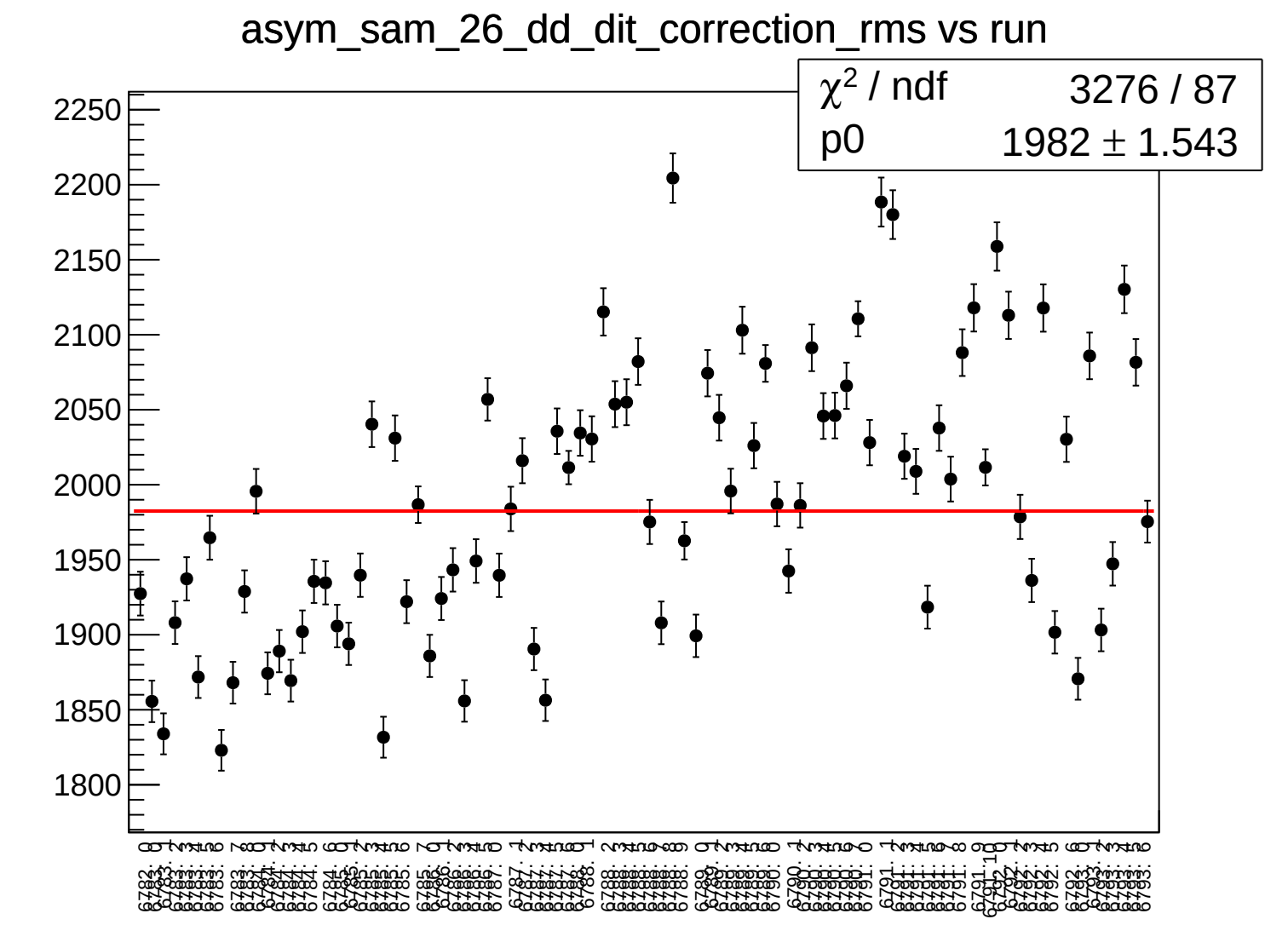

pull1D
Entries 88
Mean 0.004498
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

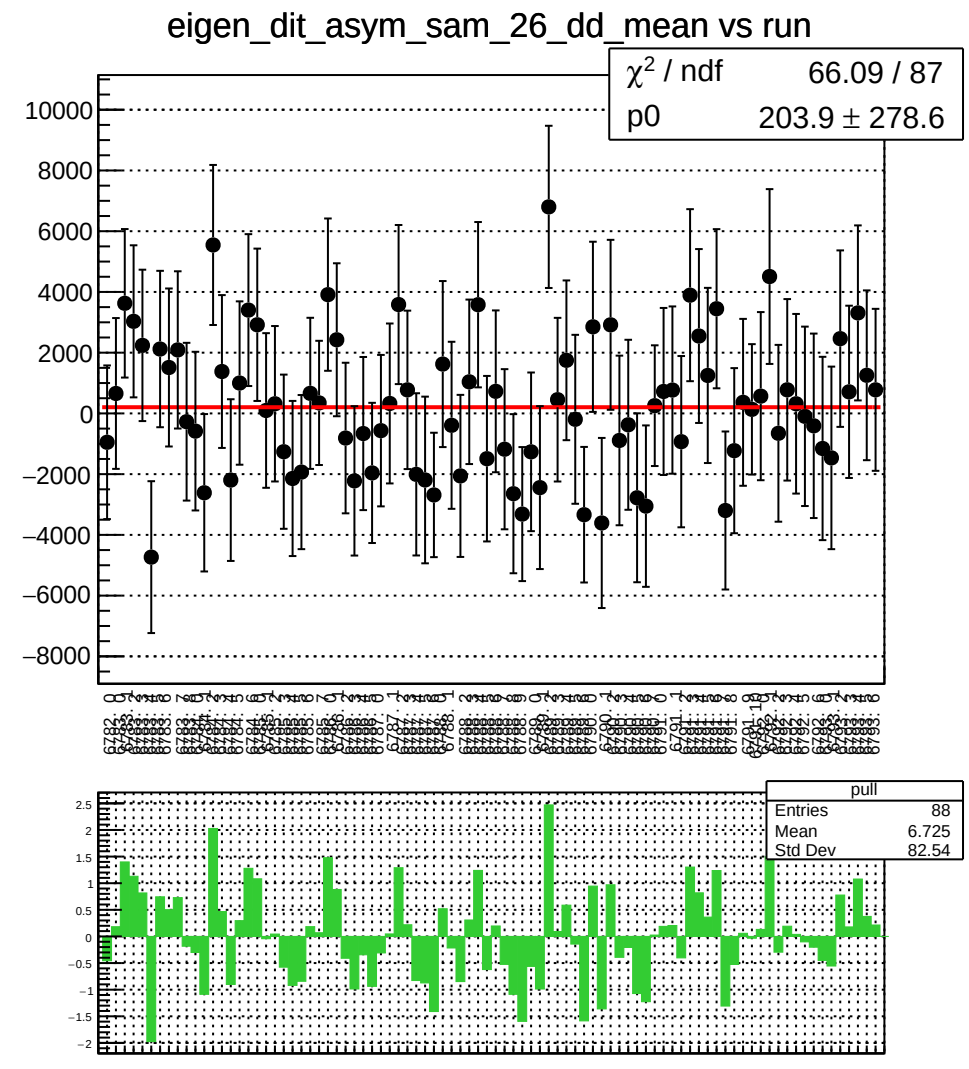

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3178 / 87
p0 1951 ± 1.518
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

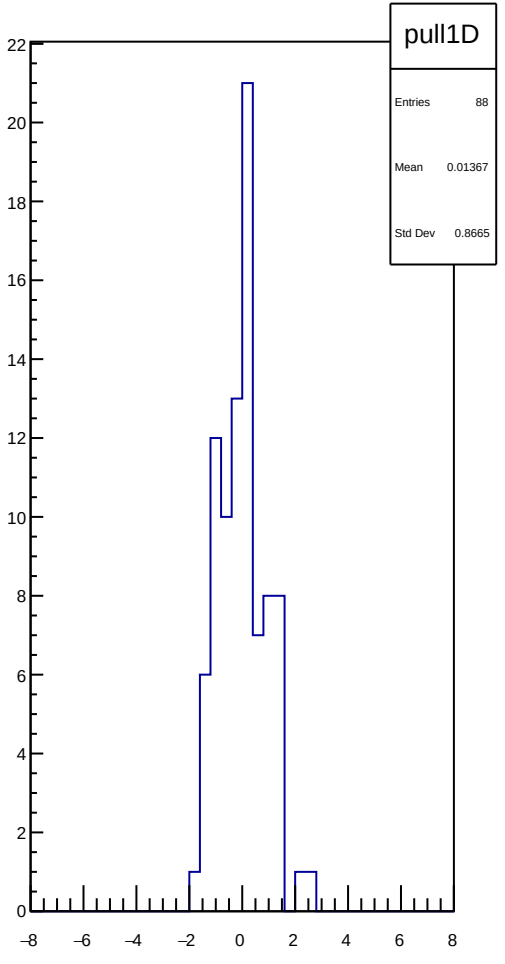

dit_asym_sam_26_dd_mean vs run
χ² / ndf 66.09 / 87
p0 203.9 ± 278.6
pull
Entries 88
Mean 6.727
Std Dev 82.54
pull1D
Entries 88
Mean 0.01367
Std Dev 0.8665

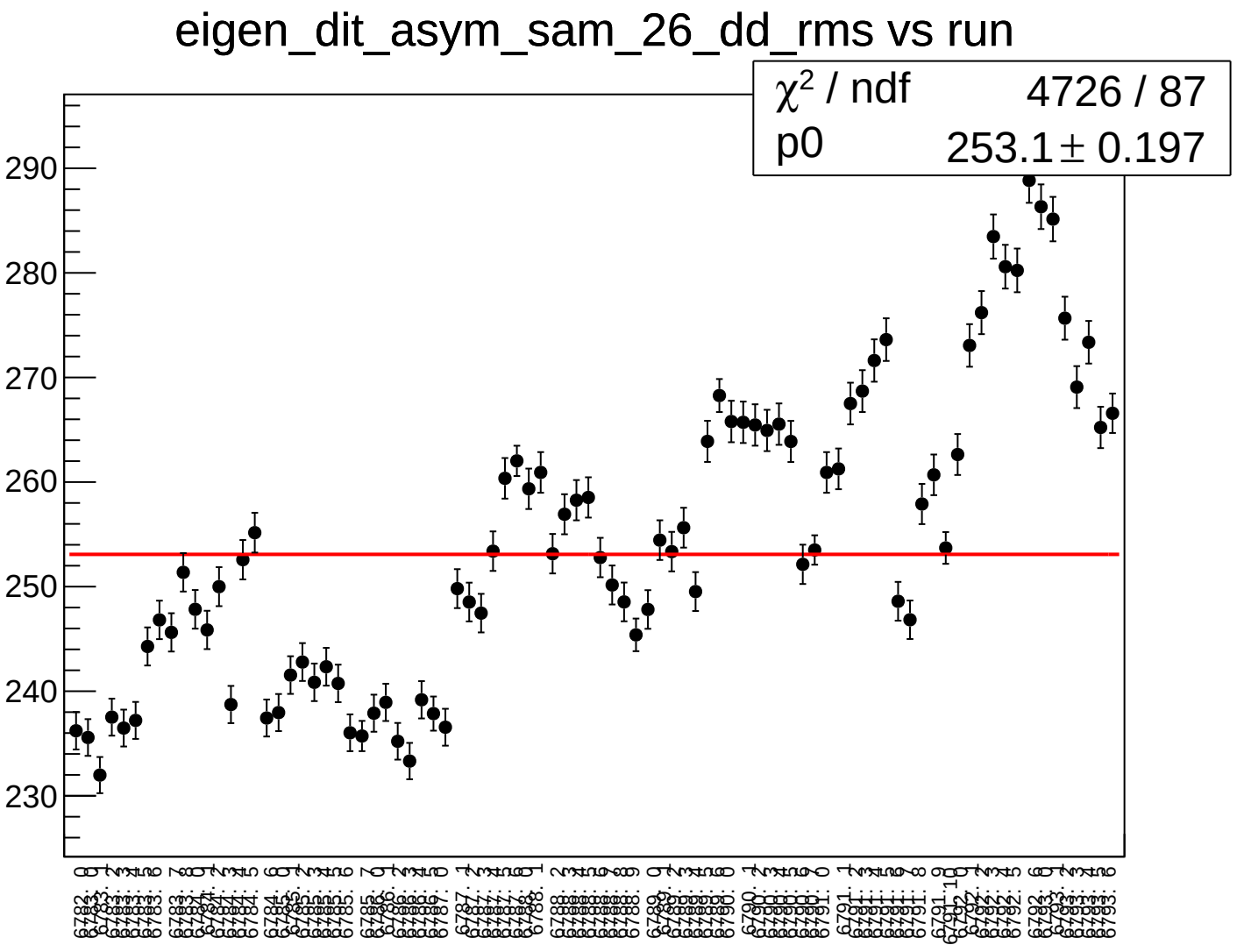

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 4726 / 87
p0 253.1 ± 0.197
290
280
270
260
250
240
230

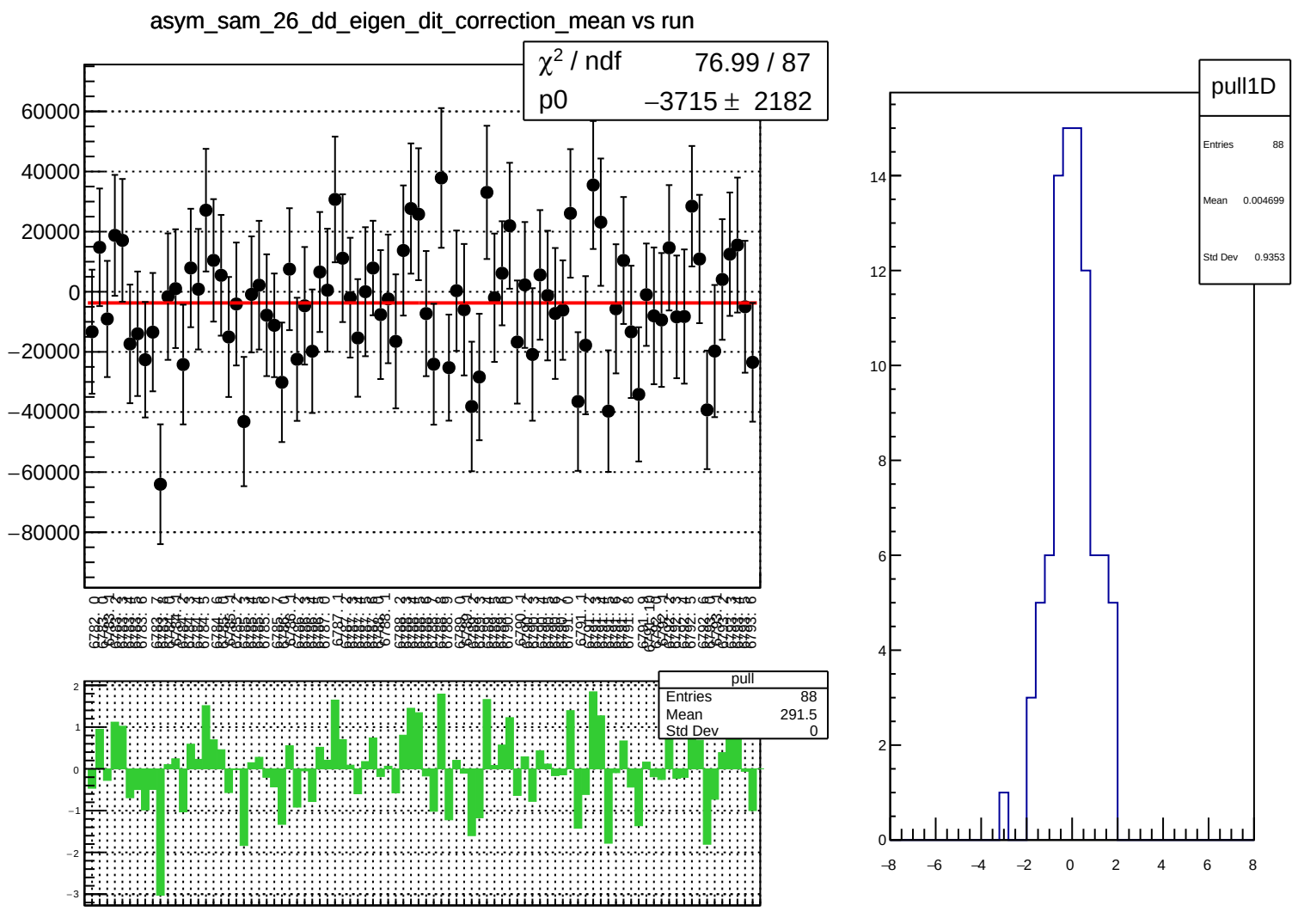

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 76.99 / 87
p0 −3715 ± 2182
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 291.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.004699
Std Dev 0.9353
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

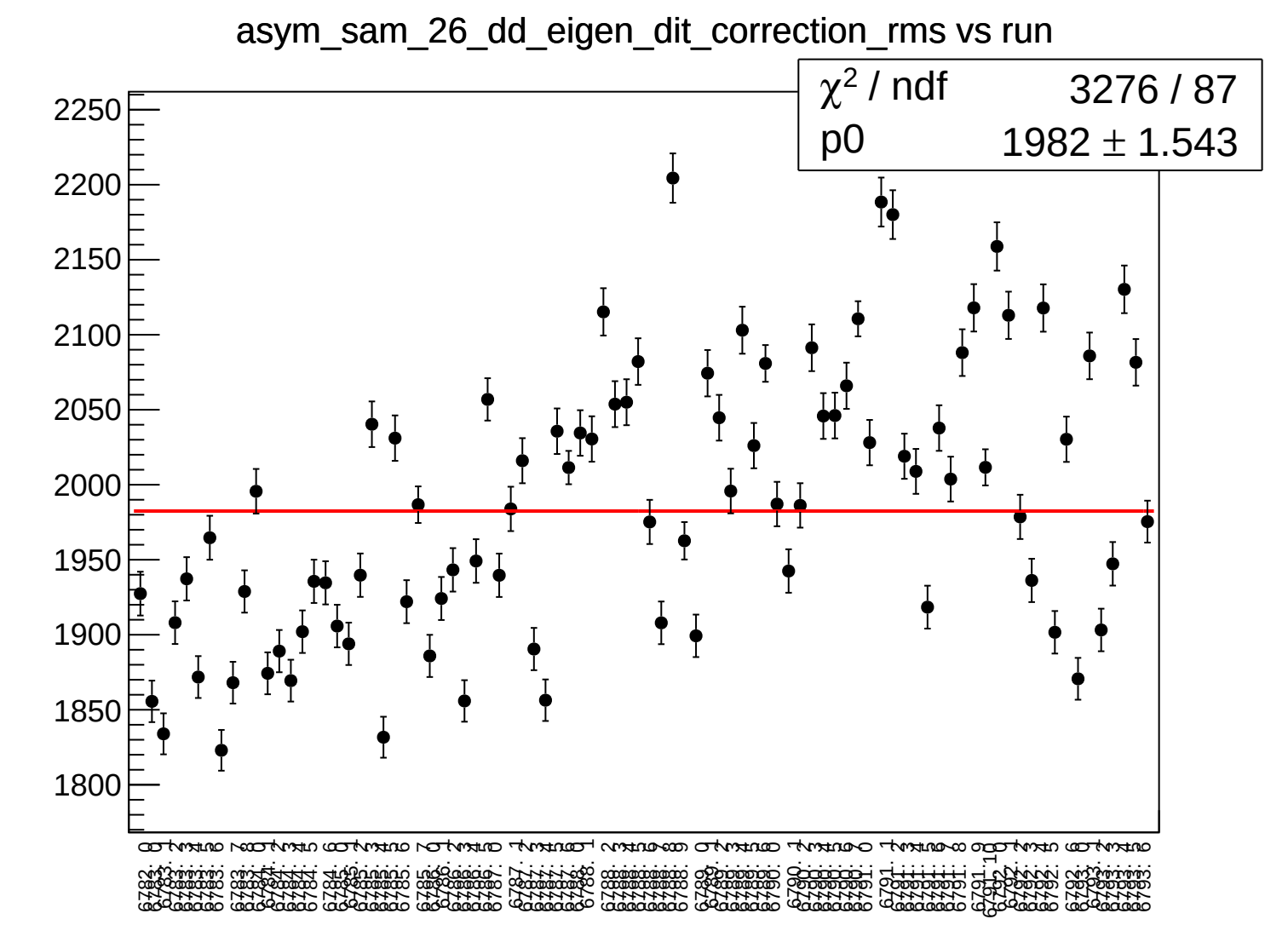

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 3276 / 87
p0 1982 ± 1.543
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

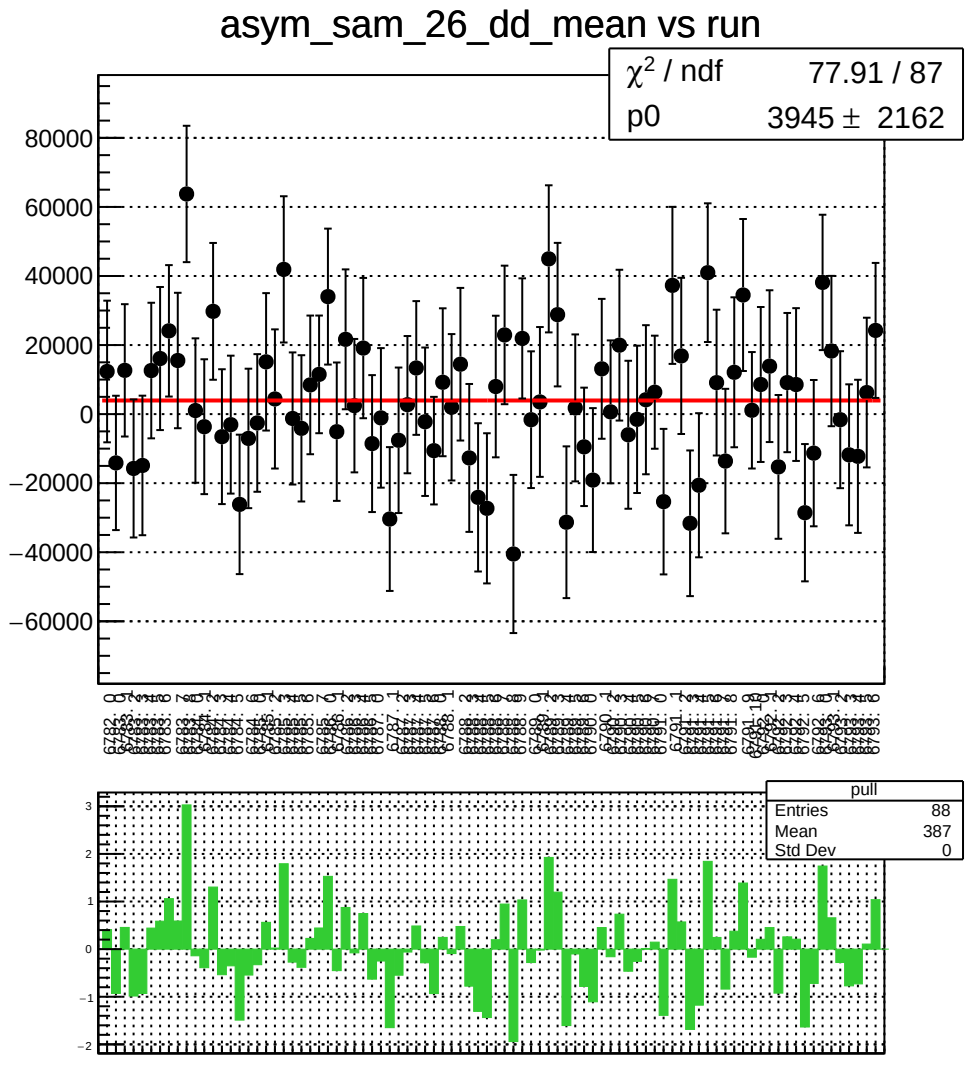

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 66.09 / 87
p0 203.9 ± 278.6
pull
Entries 88
Mean 6.725
Std Dev 82.54

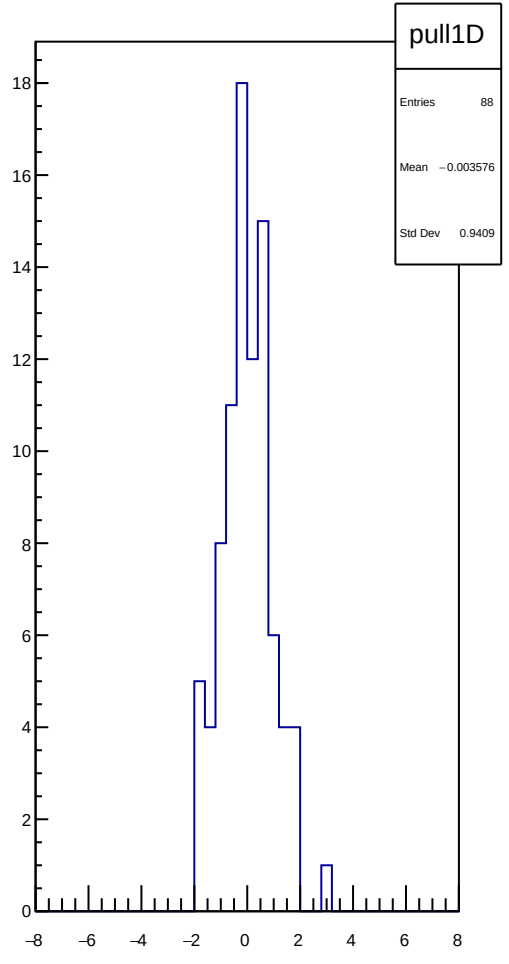

pull1D
Entries 88
Mean 0.01367
Std Dev 0.8665

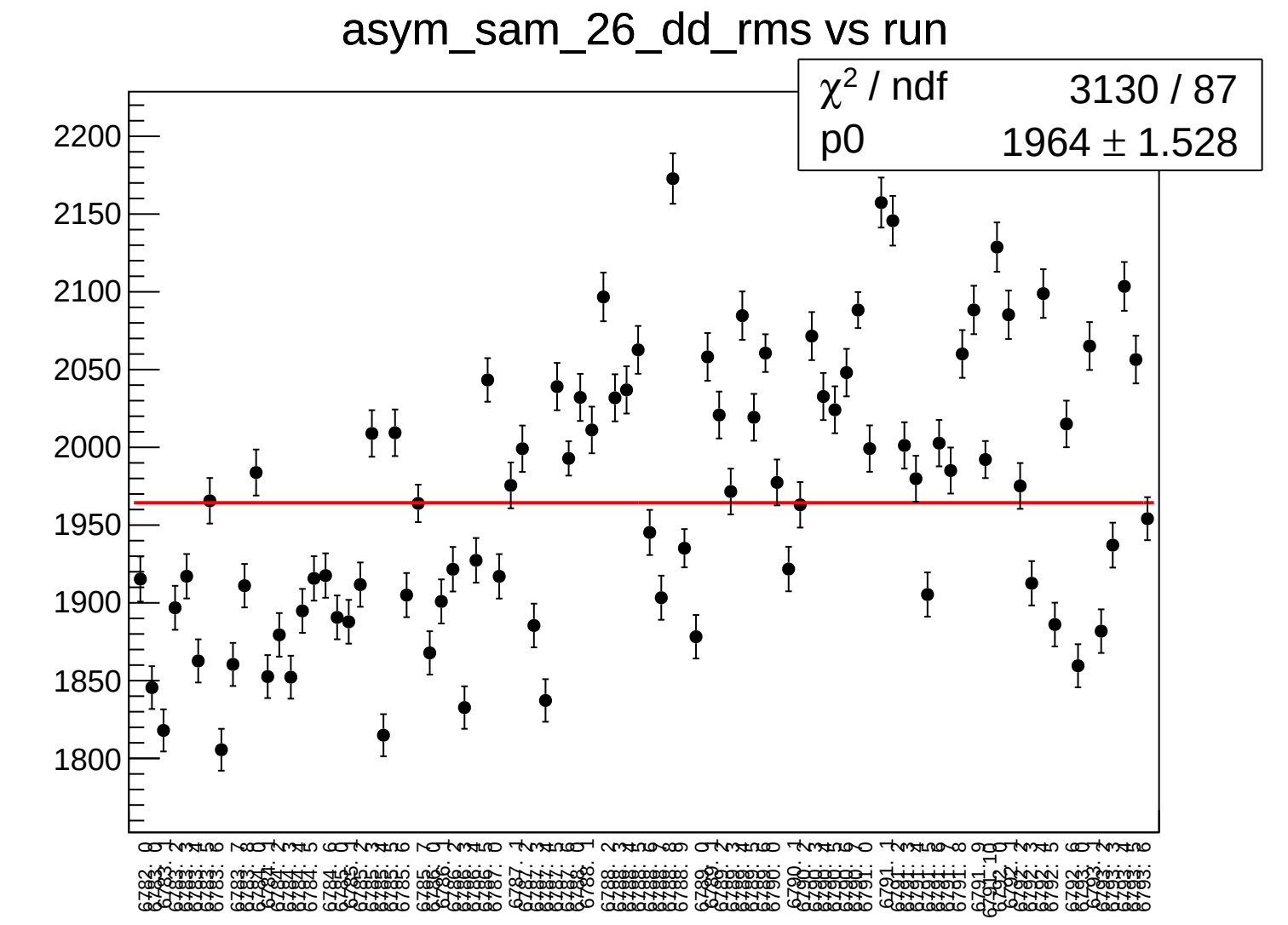

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 4726 / 87
p0 253.1 ± 0.197
290
280
270
260
250
240
230

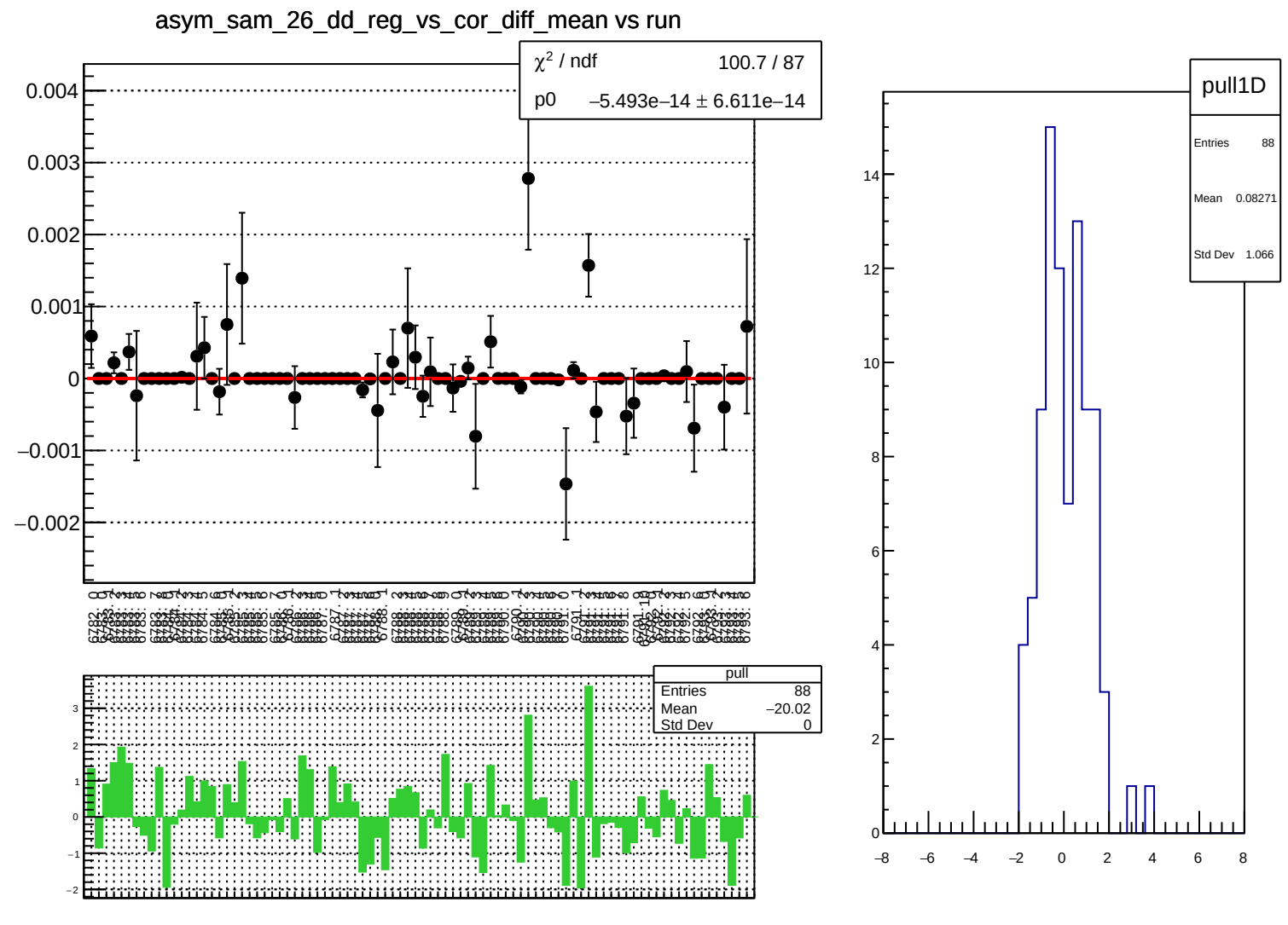

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.99 / 87
p0 −3715 ± 2182
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 291.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.004699
Std Dev 0.9353
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

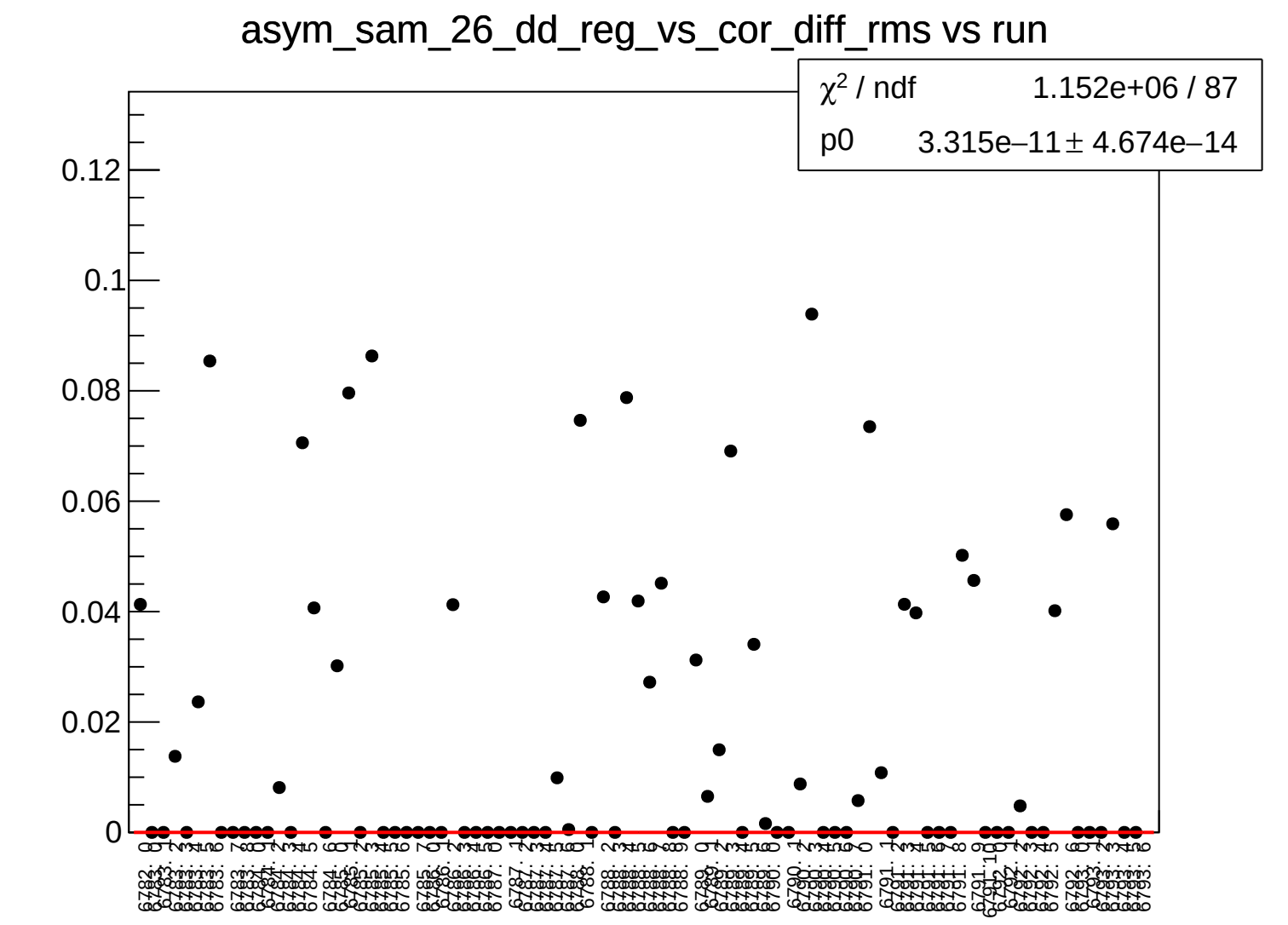

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3276 / 87
p0 1982 ± 1.543
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

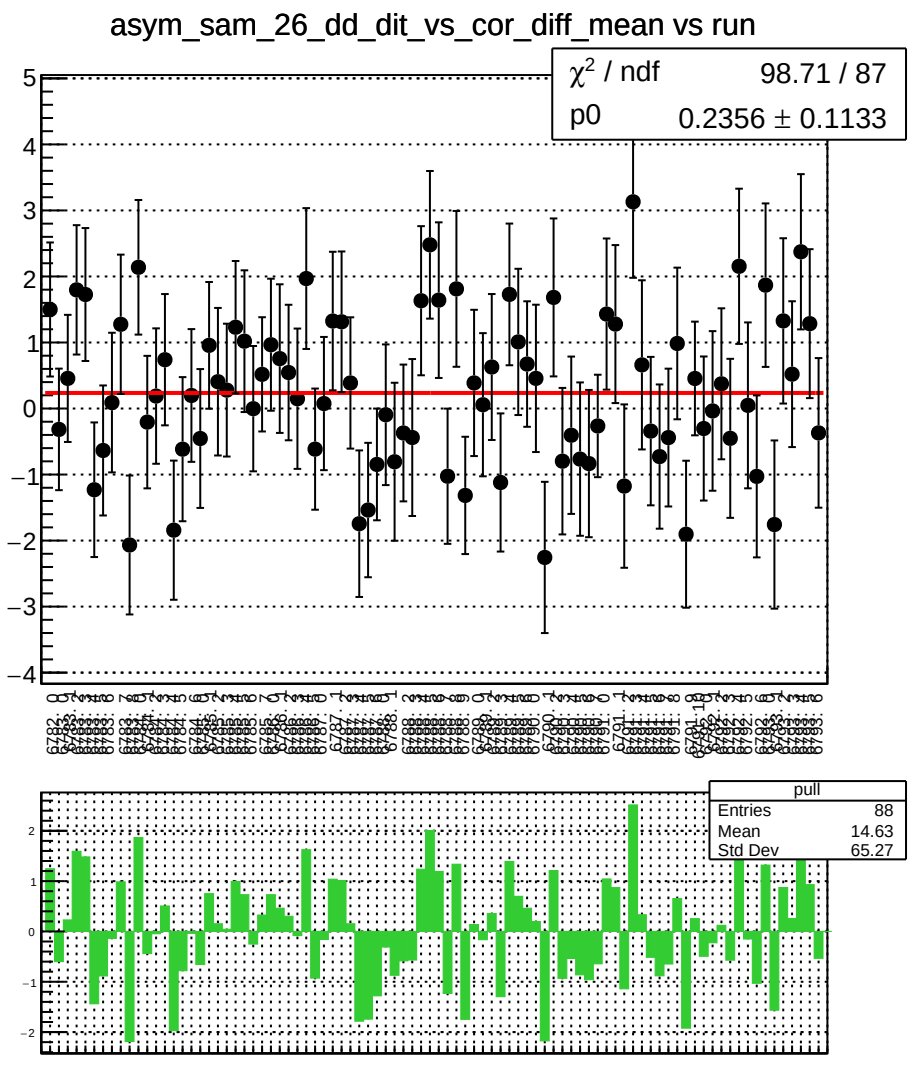

asym_sam_26_dd_mean vs run
χ² / ndf 77.91 / 87
p0 3945 ± 2162
pull
Entries 88
Mean 387
Std Dev 0

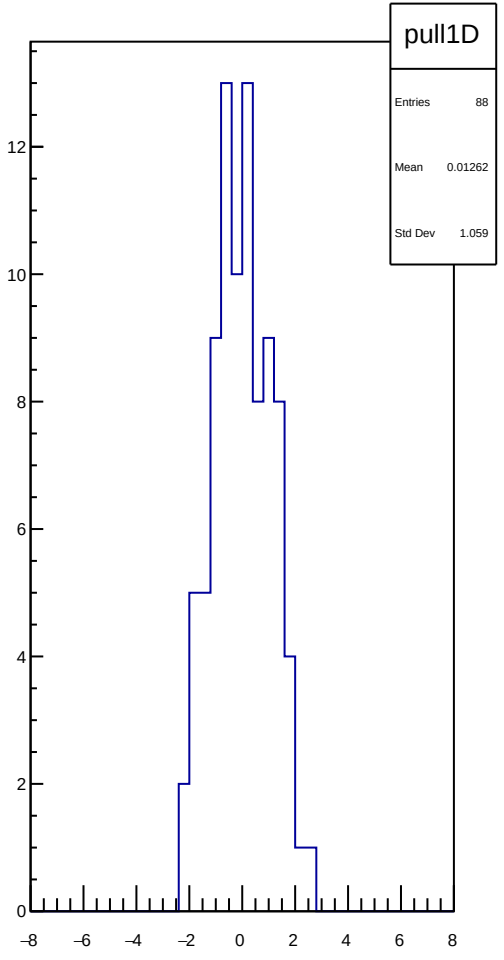

pull1D
Entries 88
Mean −0.003576
Std Dev 0.9409

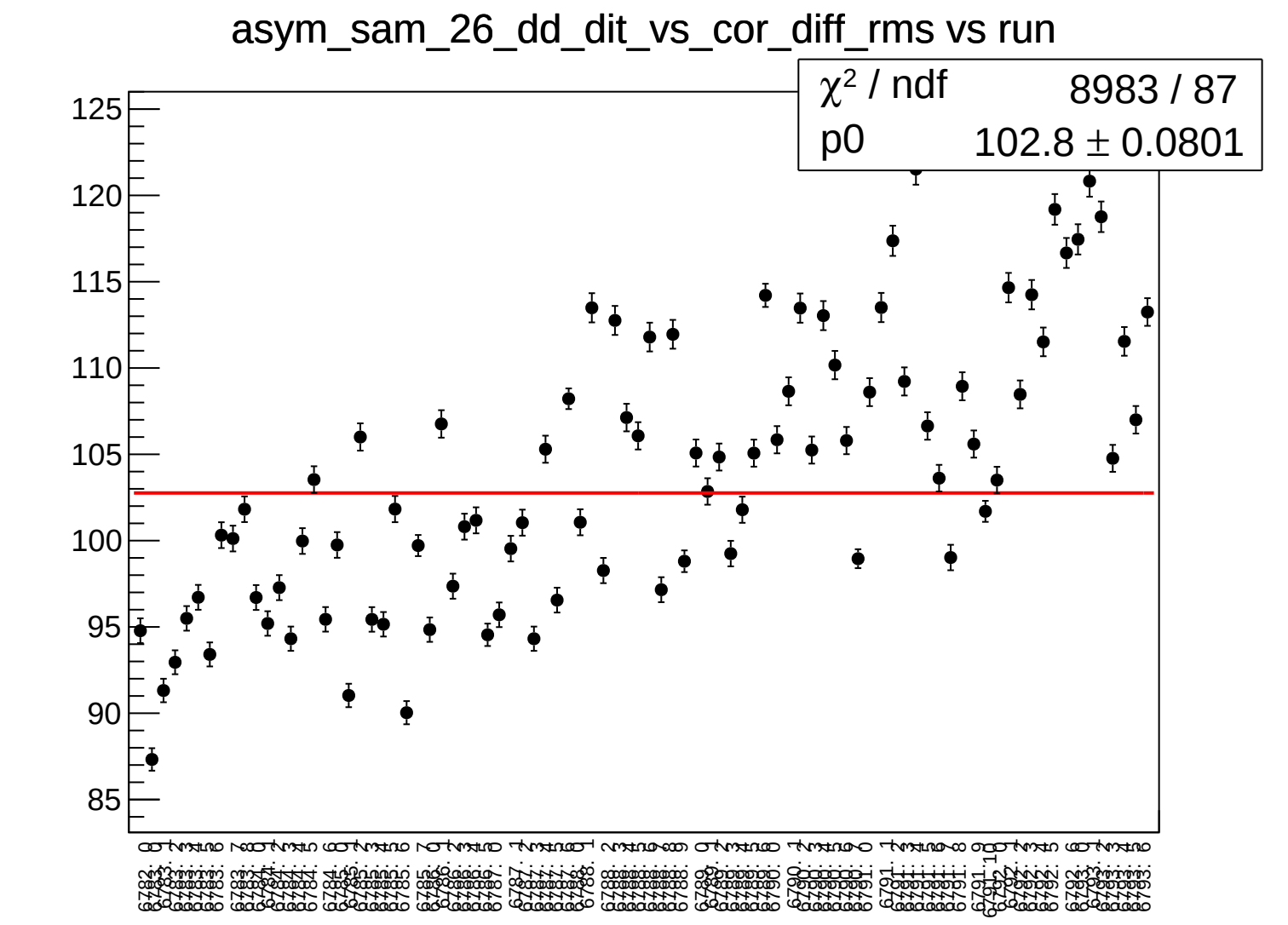

asym_sam_26_dd_rms vs run
χ² / ndf 3130 / 87
p0 1964 ± 1.528
2200
2150
2100
2050
2000
1950
1900
1850
1800

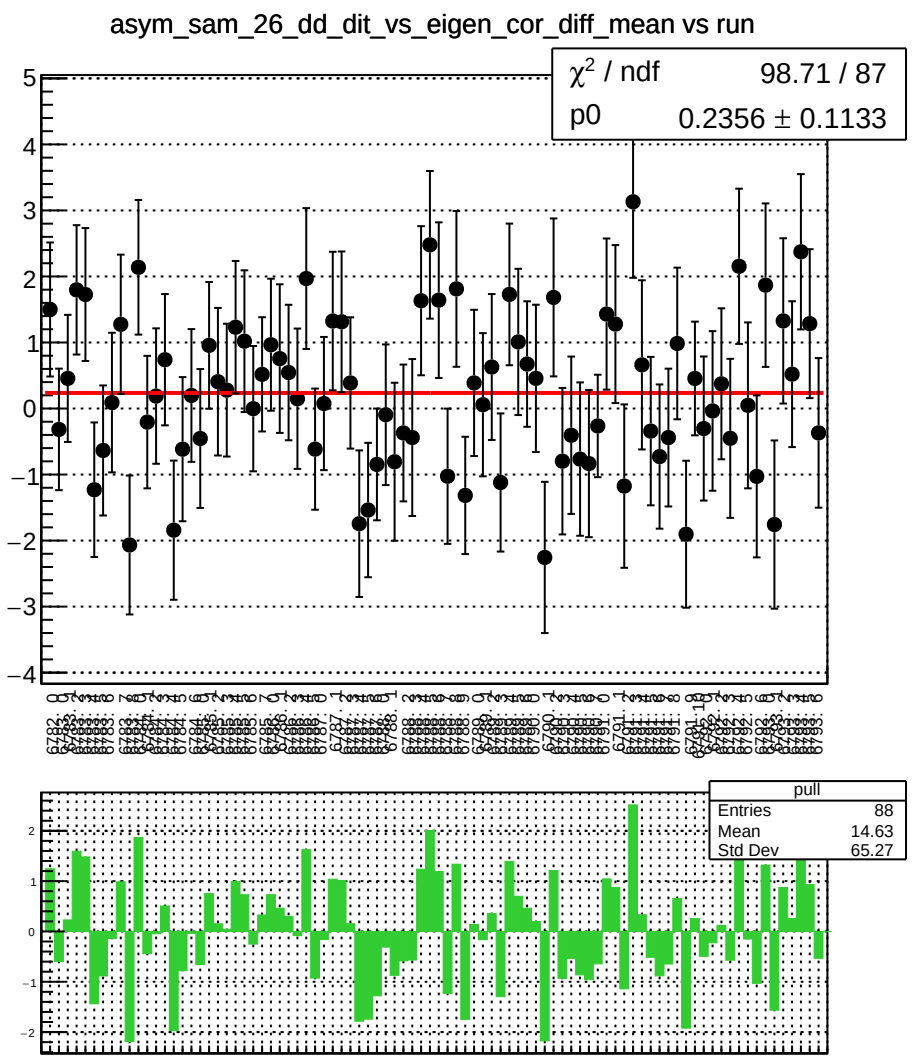

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 87
p0 −5.493e−14 ± 6.611e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 88
Mean −20.02
Std Dev 0
pull1D
Entries 88
Mean 0.08271
Std Dev 1.066

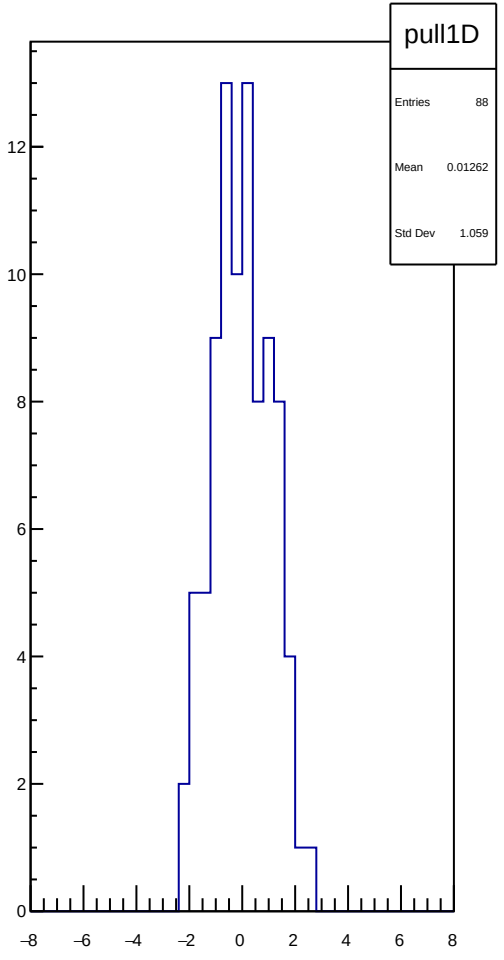

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.152e+06 / 87
p0 3.315e−11 ± 4.674e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

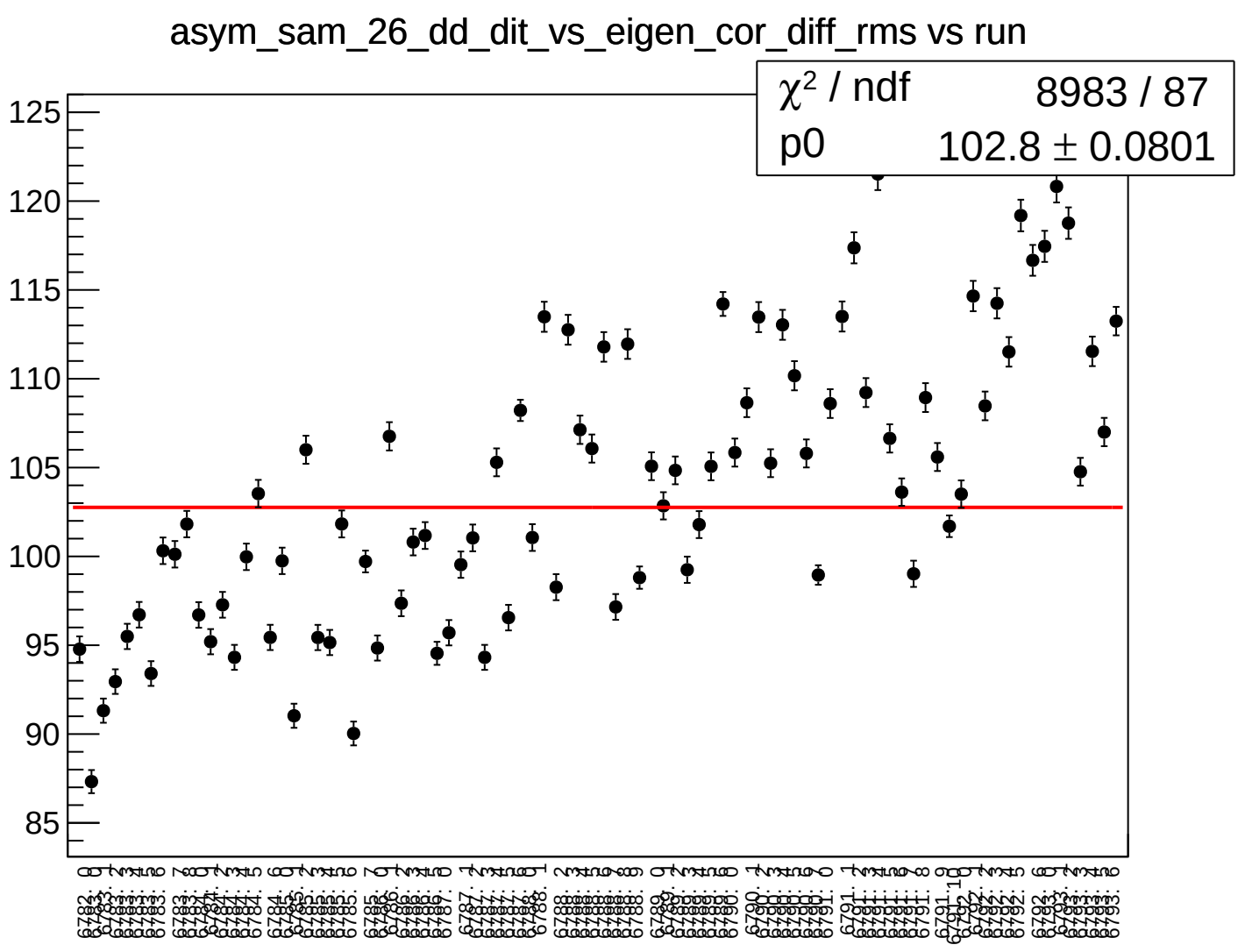

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.71 / 87
p0 0.2356 ± 0.1133
pull
Entries 88
Mean 14.63
Std Dev 65.27

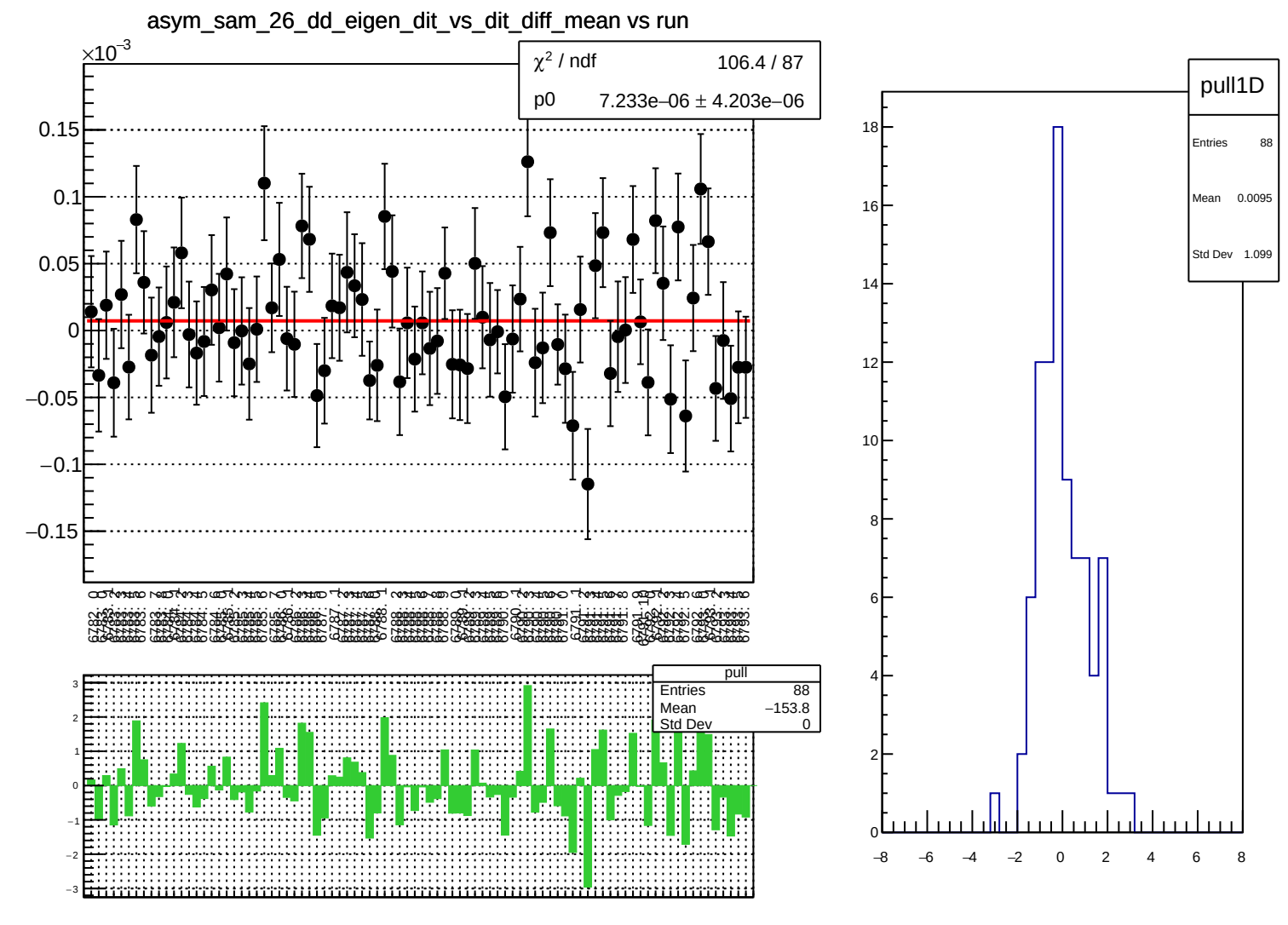

pull1D
Entries 88
Mean 0.01262
Std Dev 1.059

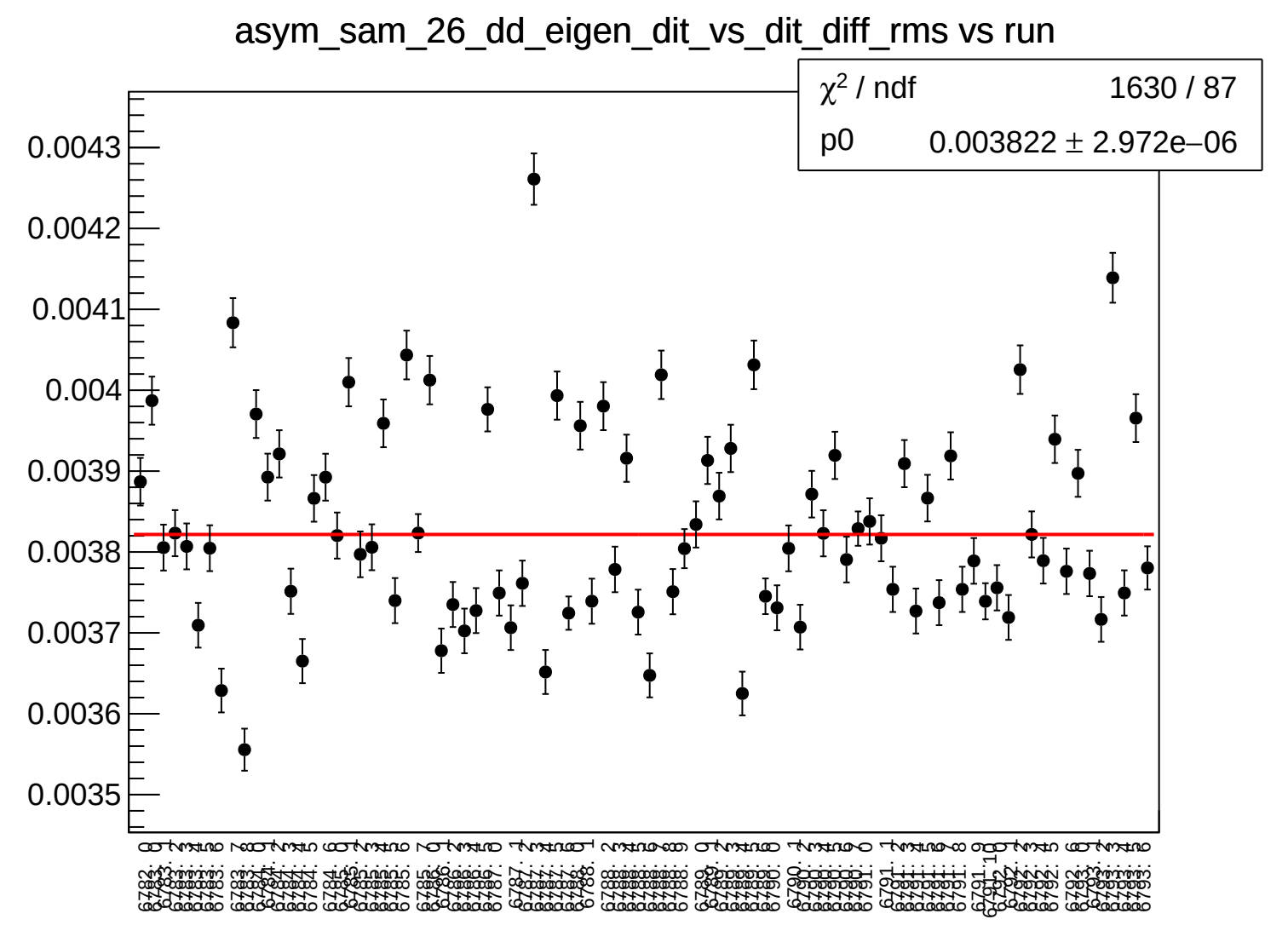

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8983 / 87
p0 102.8 ± 0.0801
125
120
115
110
105
100
95
90
85

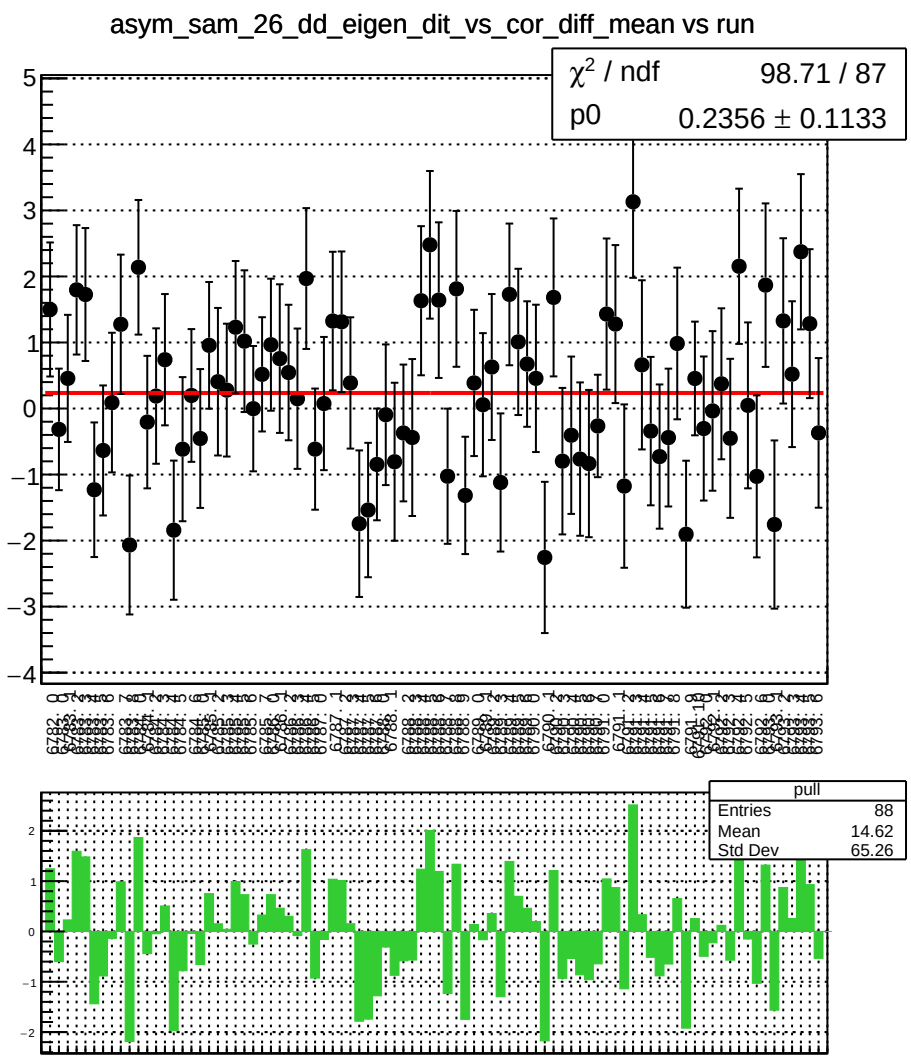

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.71 / 87
p0 0.2356 ± 0.1133
pull
Entries 88
Mean 14.63
Std Dev 65.27

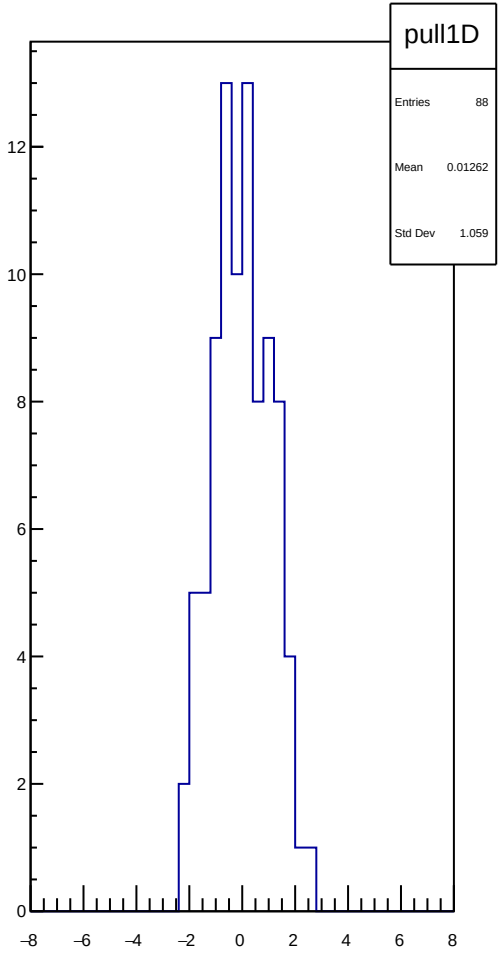

pull1D
Entries 88
Mean 0.01262
Std Dev 1.059

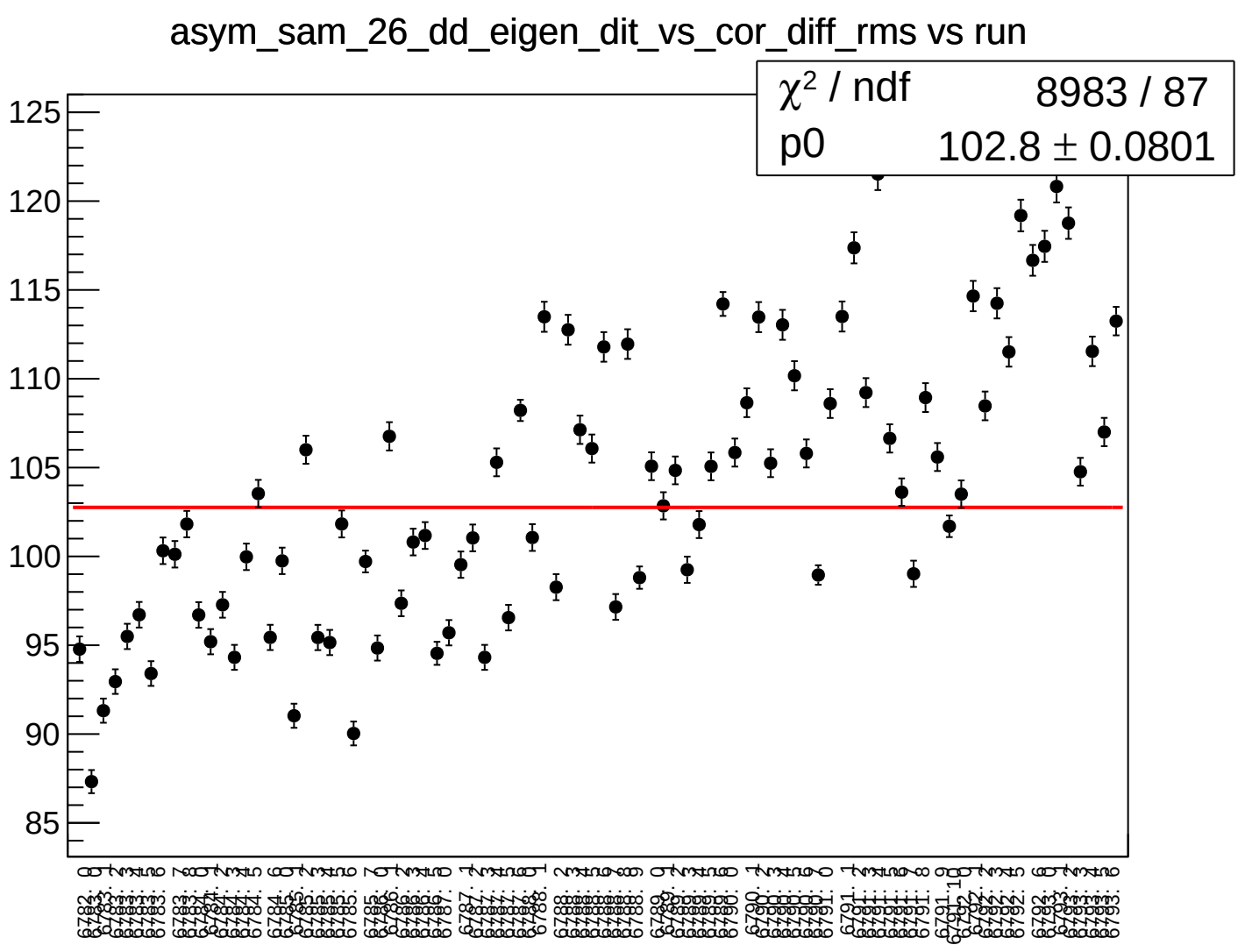

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8983 / 87
p0 102.8 ± 0.0801
125
120
115
110
105
100
95
90
85

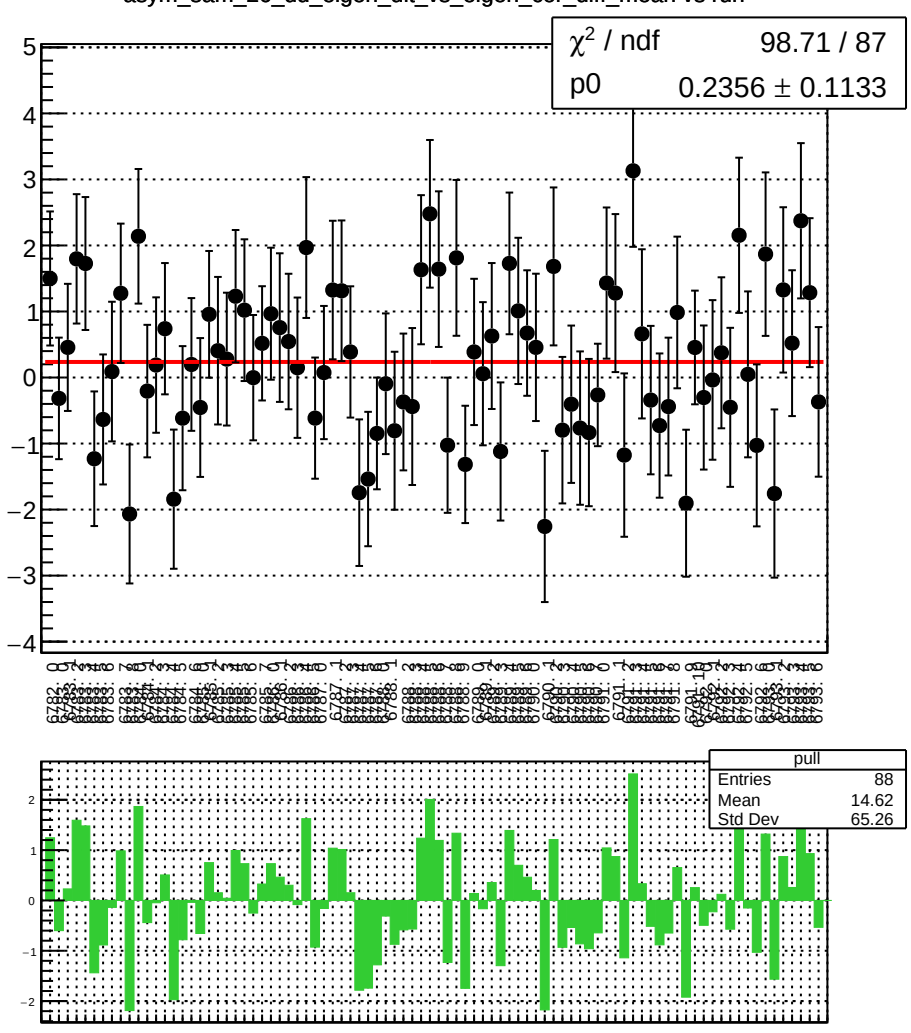

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.4 / 87
p0 7.233e−06 ± 4.203e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −153.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0095
Std Dev 1.099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

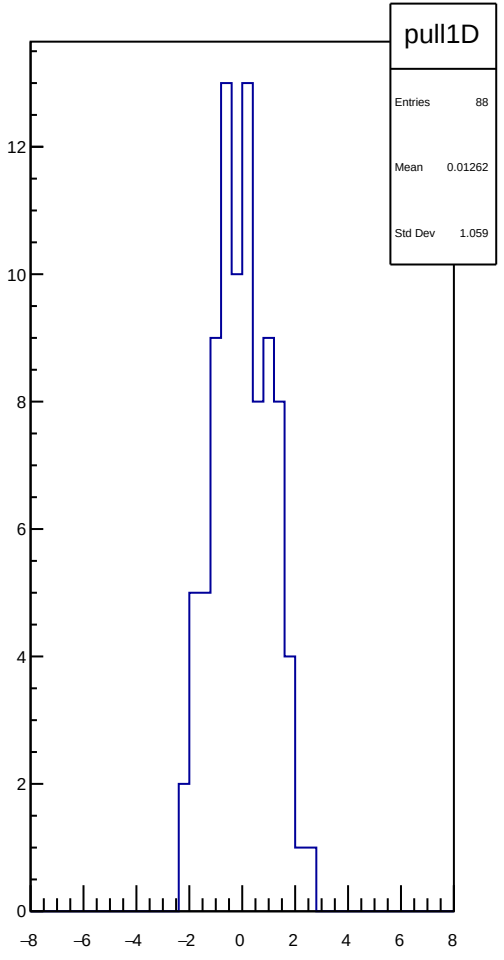

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1630 / 87
p0 0.003822 ± 2.972e−06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035

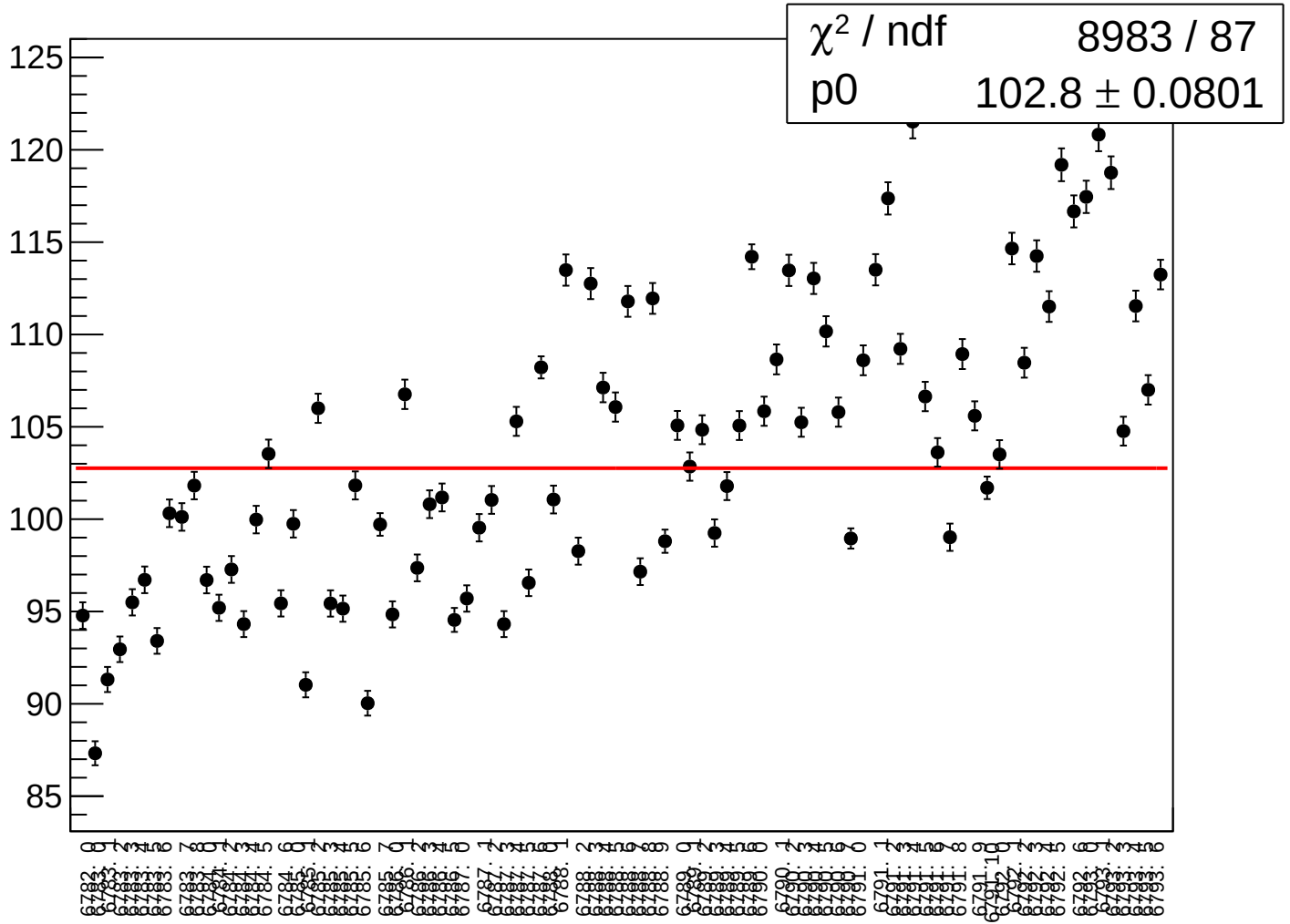

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.71 / 87
p0 0.2356 ± 0.1133
pull
Entries 88
Mean 14.62
Std Dev 65.26

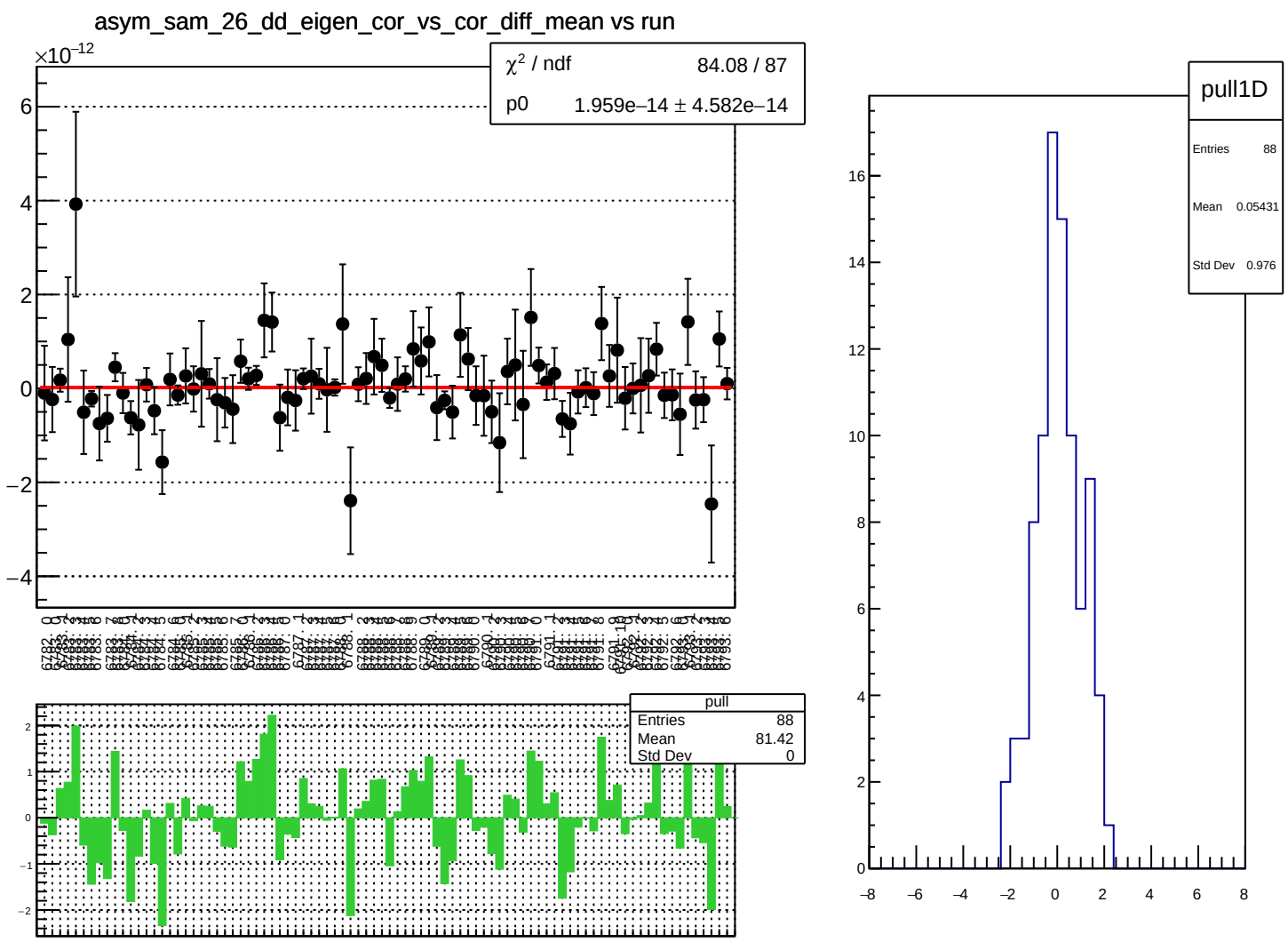

pull1D
Entries 88
Mean 0.01262
Std Dev 1.059

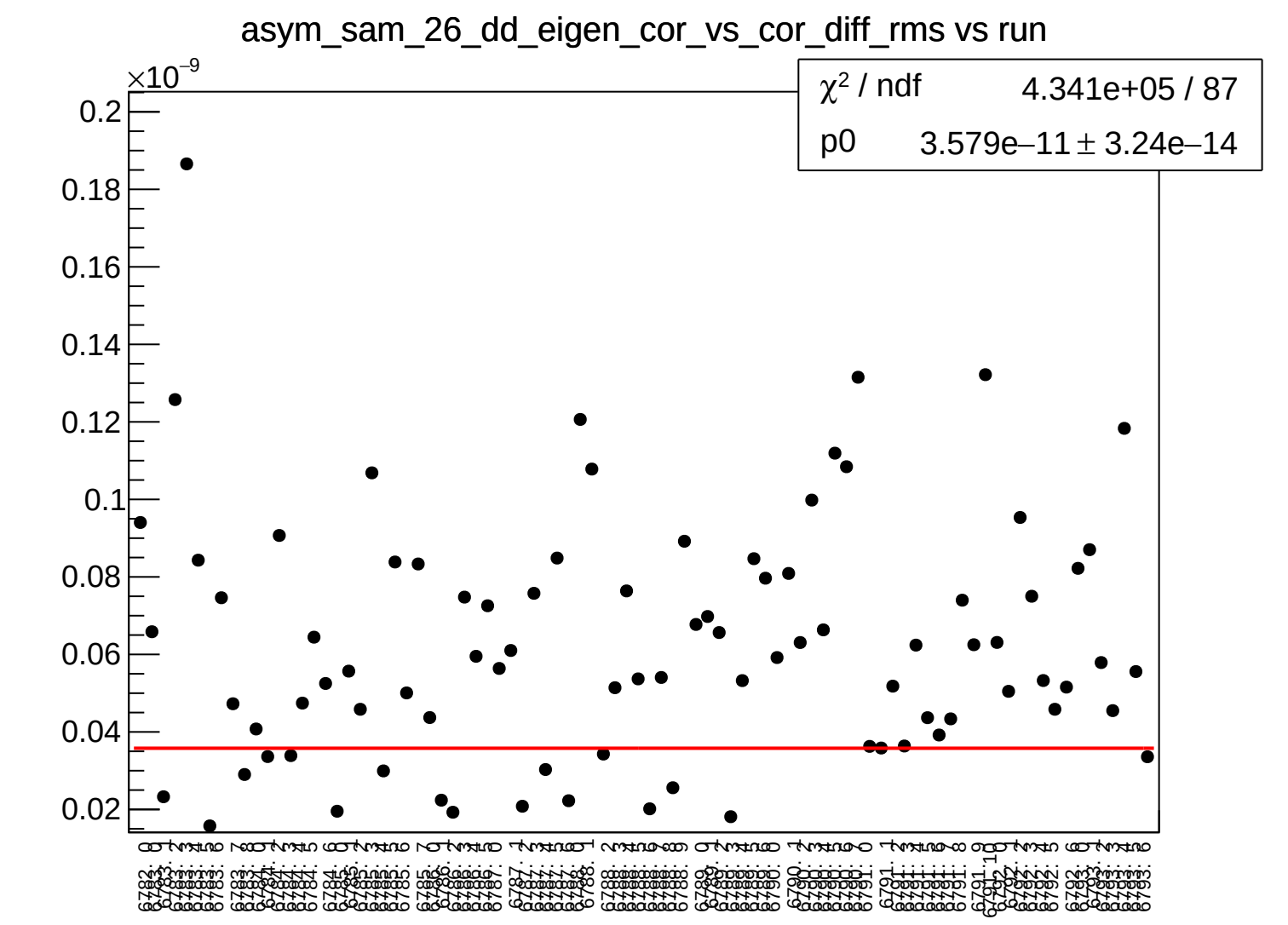

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8983 / 87
p0 102.8 ± 0.0801
125
120
115
110
105
100
95
90
85

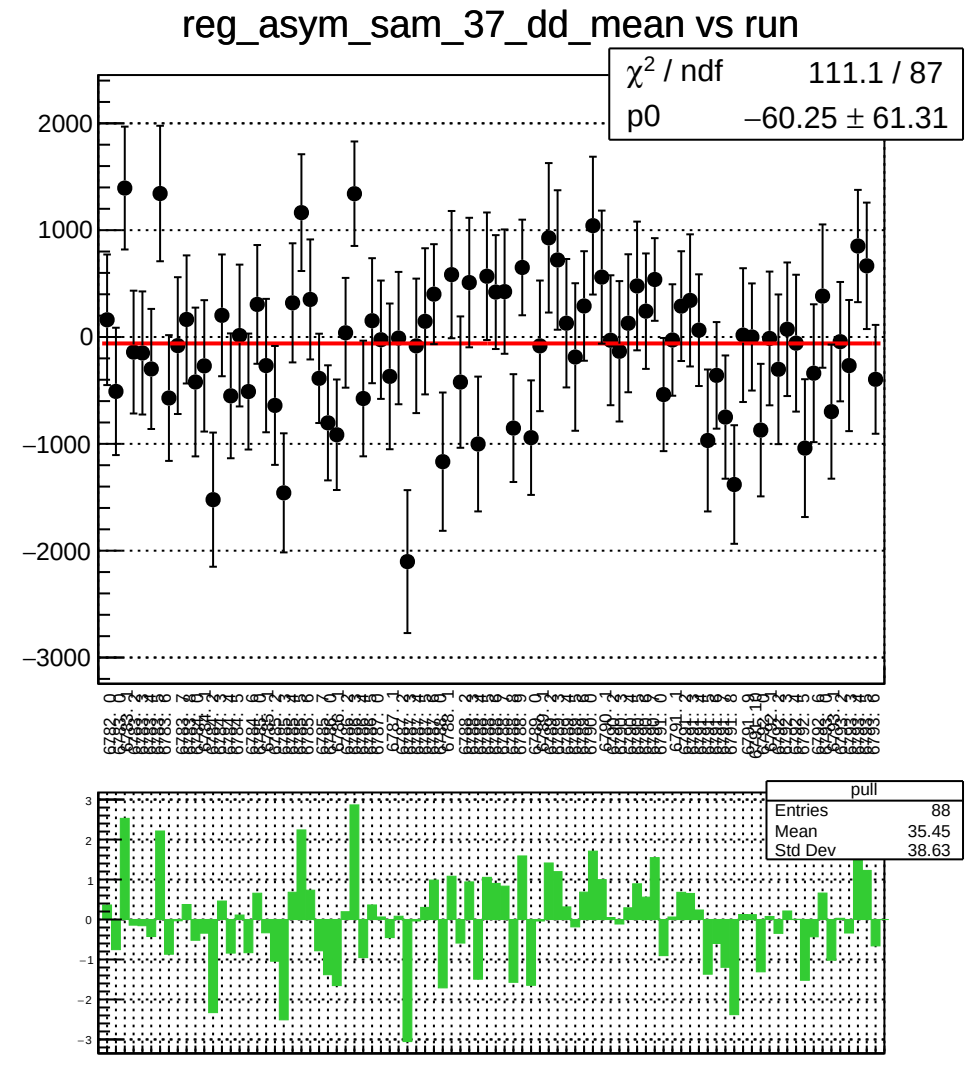

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.71 / 87
p0 0.2356 ± 0.1133
pull
Entries 88
Mean 14.62
Std Dev 65.26

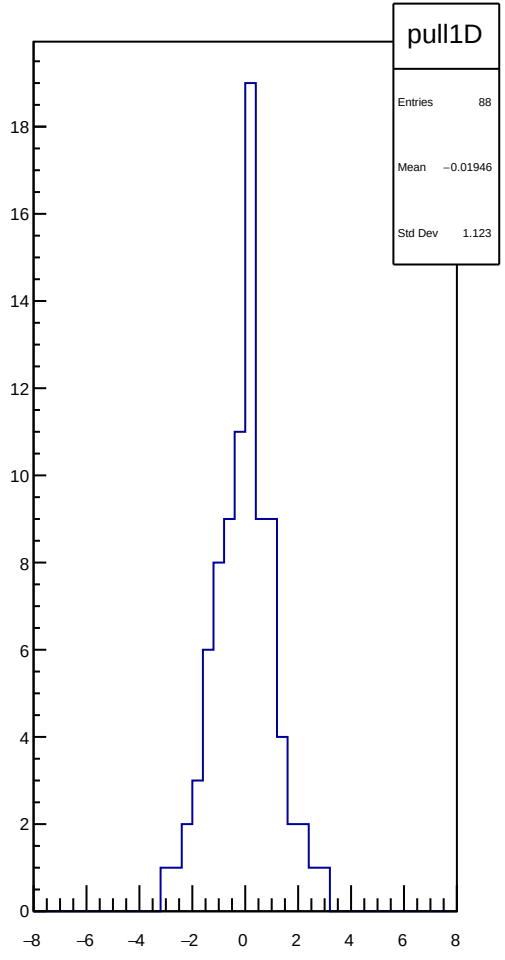

pull1D
Entries 88
Mean 0.01262
Std Dev 1.059

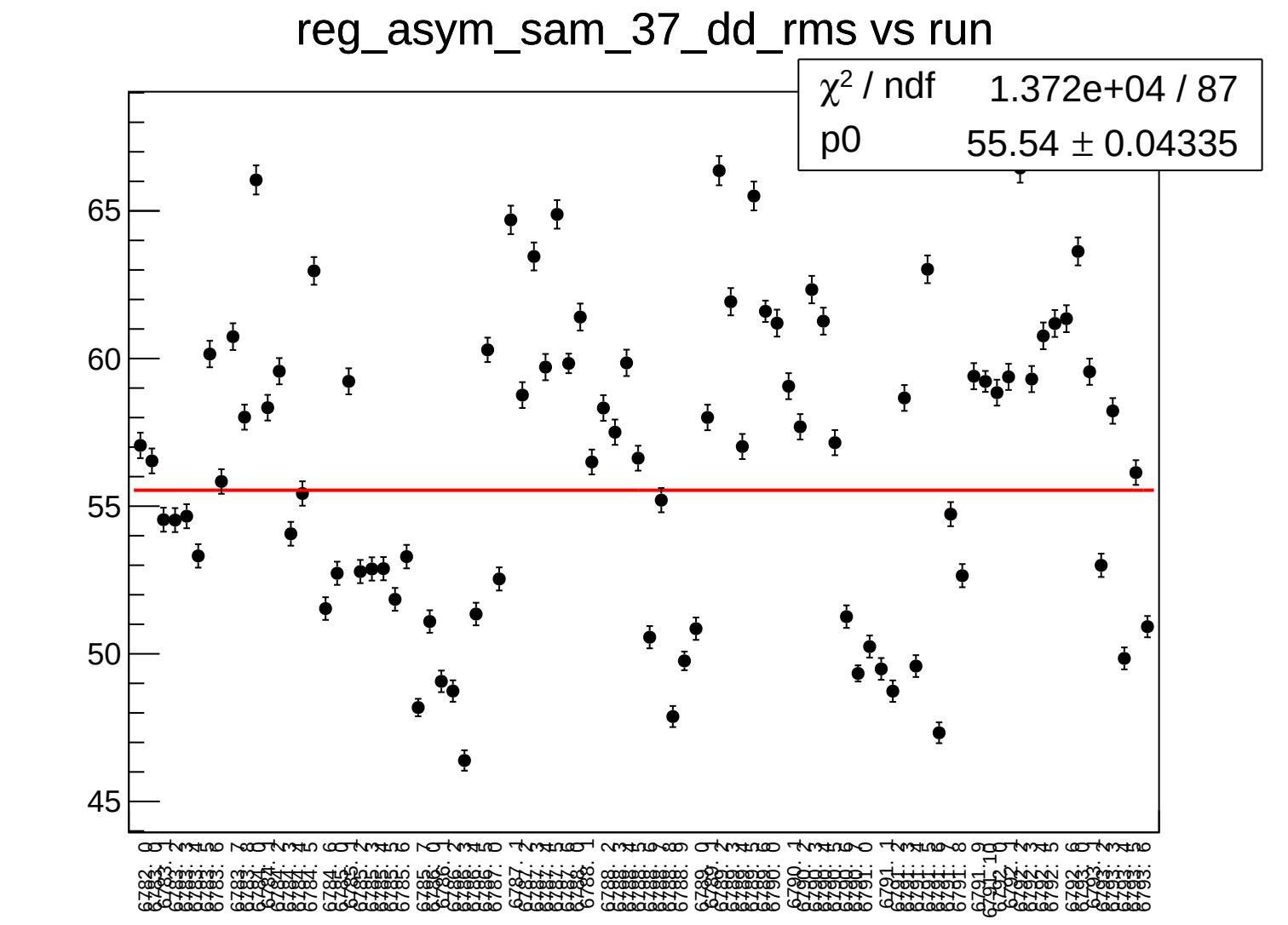

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8983 / 87
p0 102.8 ± 0.0801
125
120
115
110
105
100
95
90
85

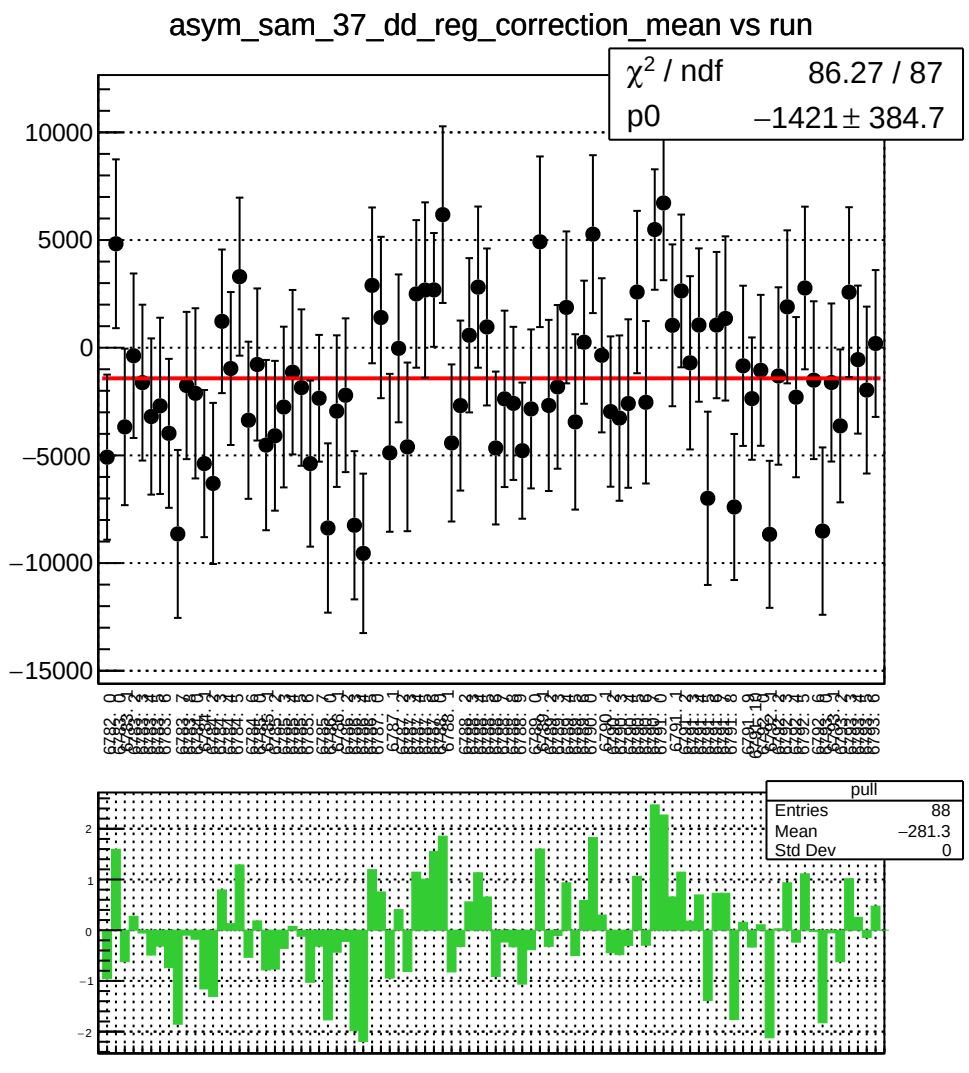

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 84.08 / 87
p0 1.959e−14 ± 4.582e−14
pull
Entries 88
Mean 81.42
Std Dev 0
pull1D
Entries 88
Mean 0.05431
Std Dev 0.976

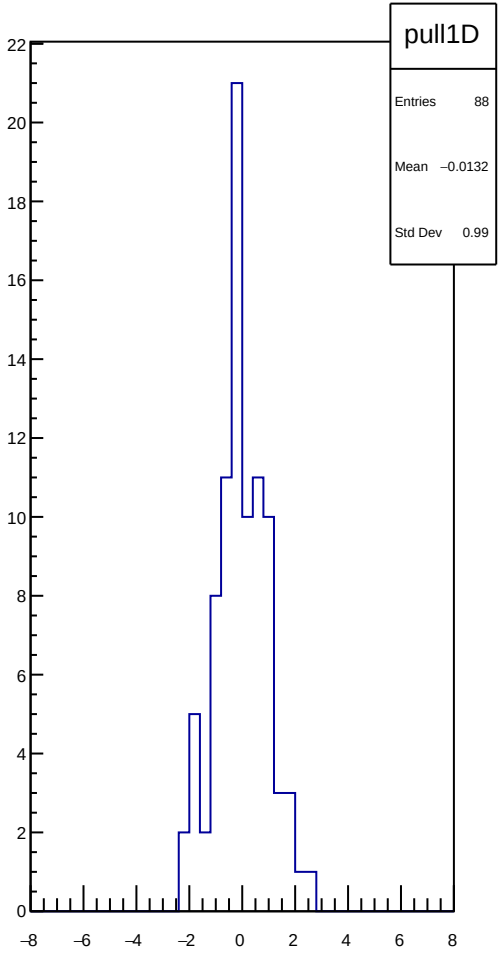

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.341e+05 / 87
p0 3.579e−11 ± 3.24e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

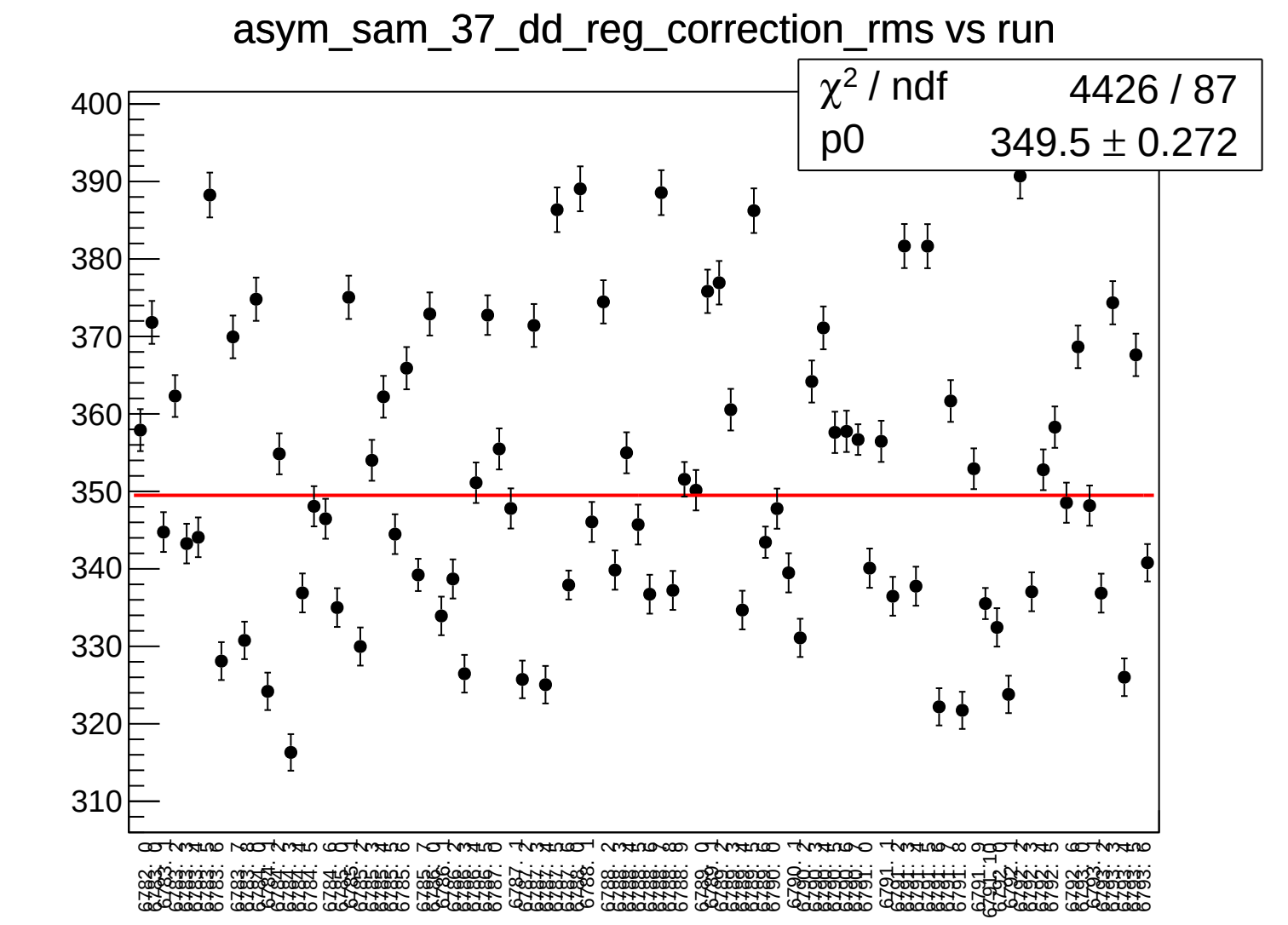

reg_asym_sam_37_dd_mean vs run
χ² / ndf 111.1 / 87
p0 −60.25 ± 61.31
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 35.45
Std Dev 38.63
3
2
1
0
−1
−2
−3

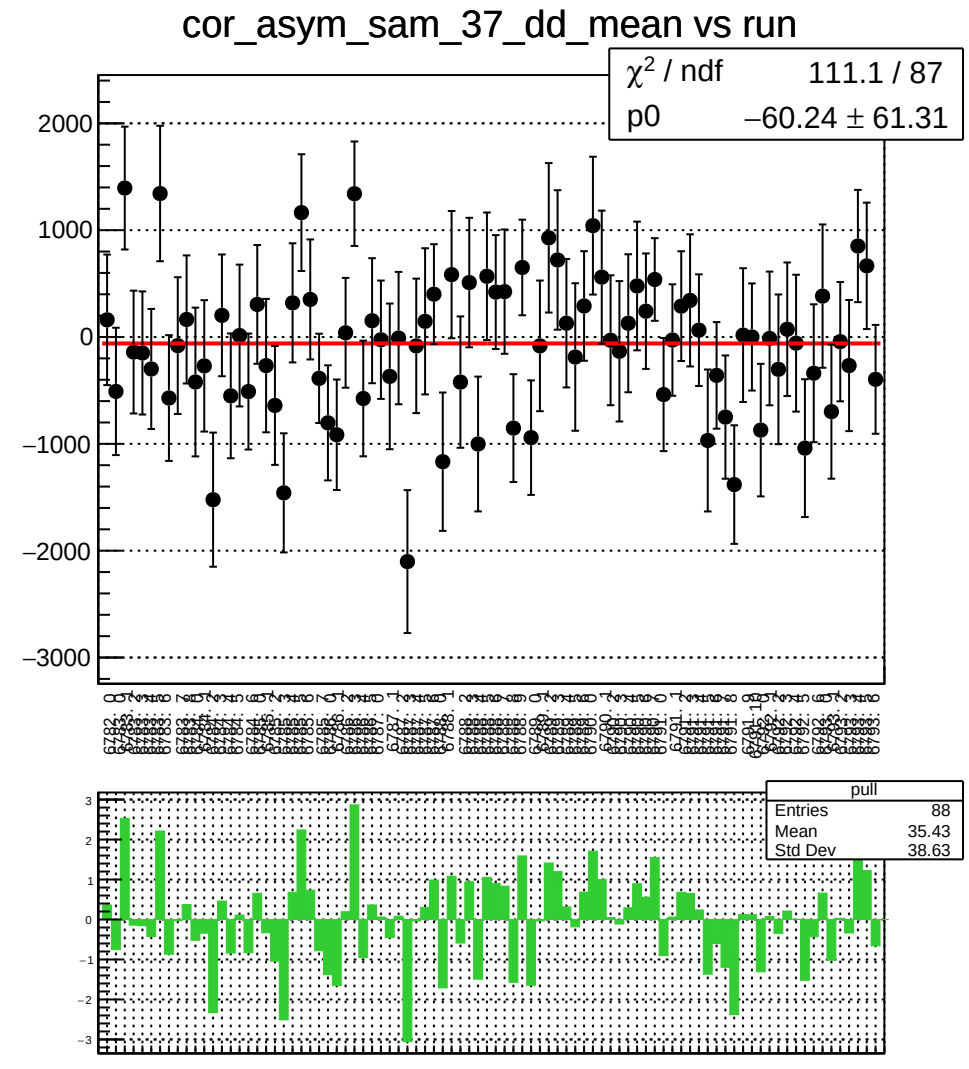

pull1D
Entries 88
Mean −0.01946
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

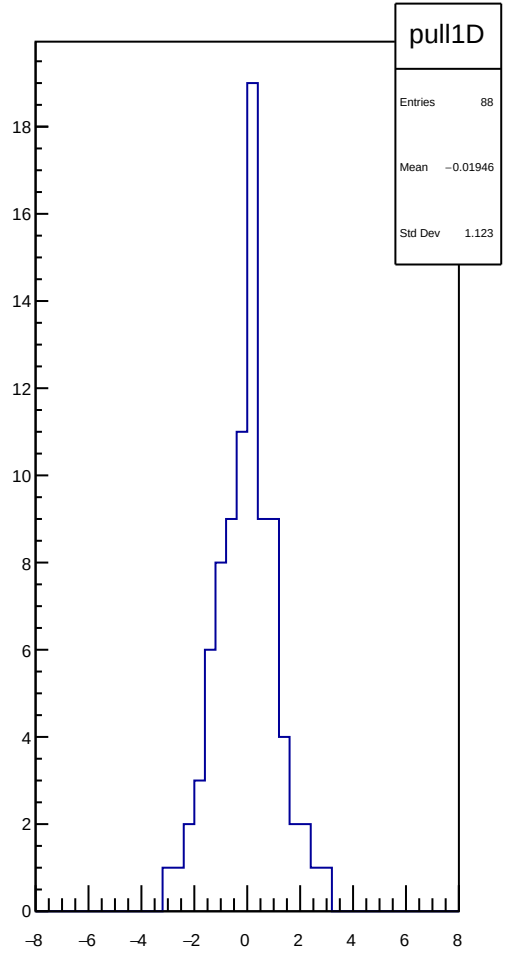

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.372e+04 / 87
p0 55.54 ± 0.04335
65
60
55
50
45

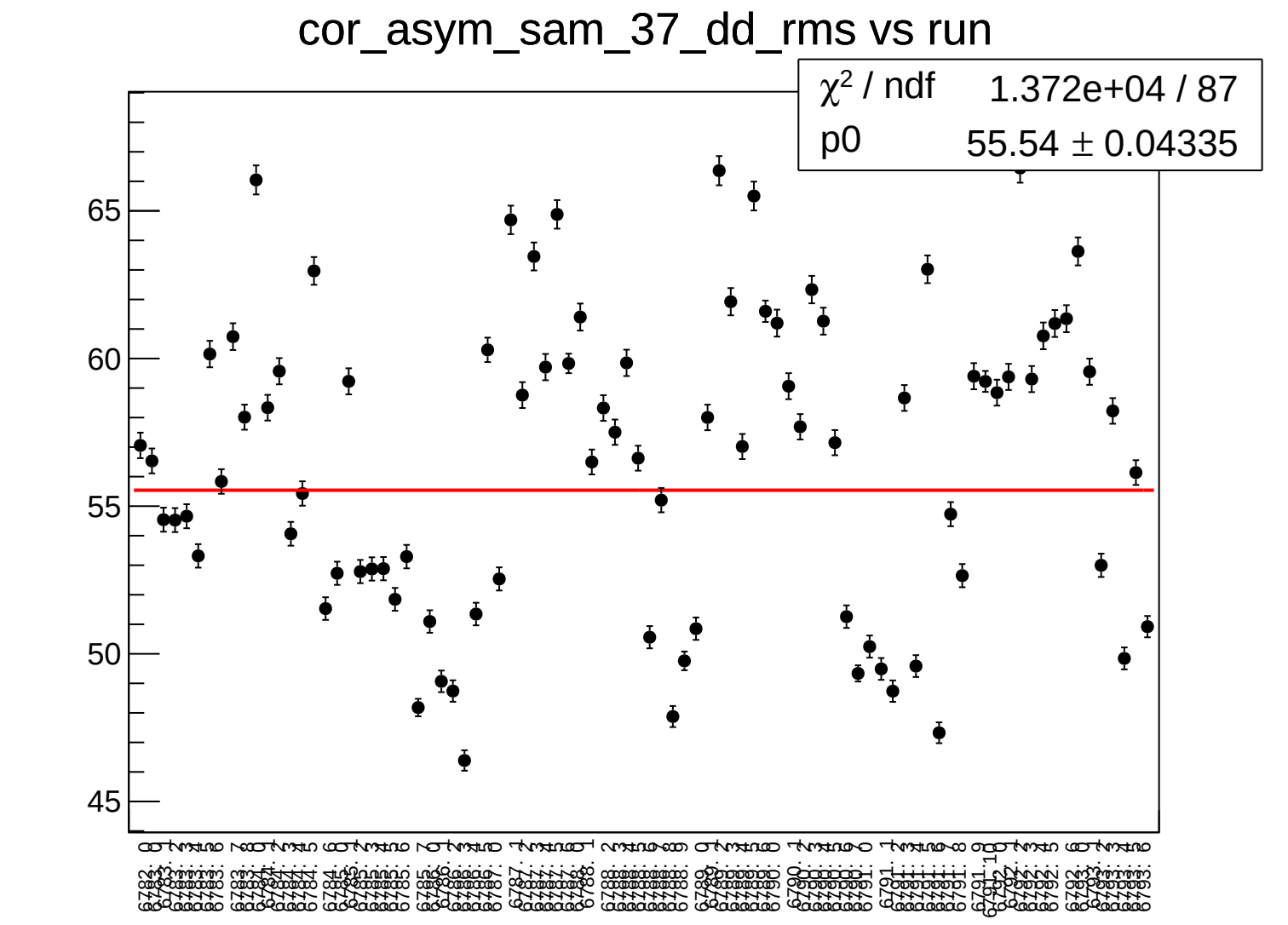

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 86.27 / 87
p0 −1421 ± 384.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −281.3
Std Dev 0
2
1
0
−1
−2

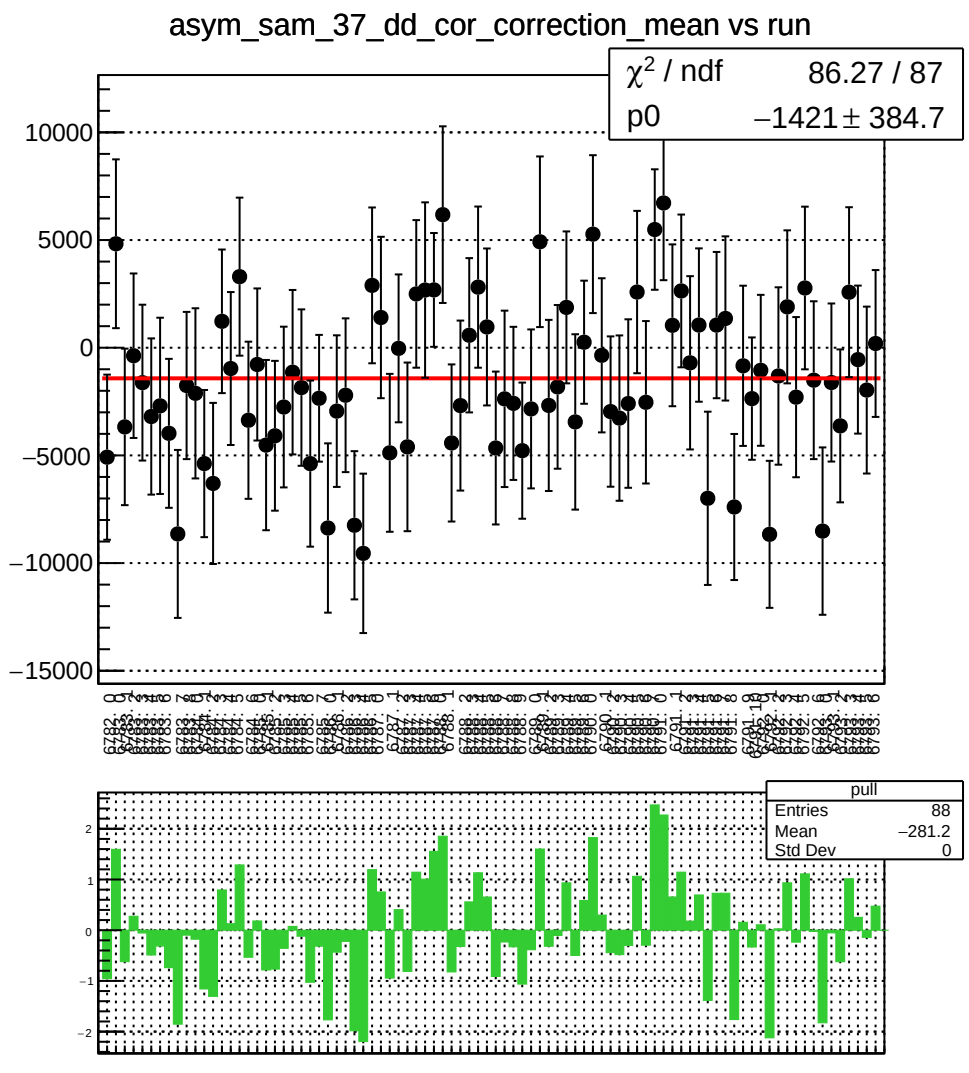

pull1D
Entries 88
Mean −0.0132
Std Dev 0.99
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

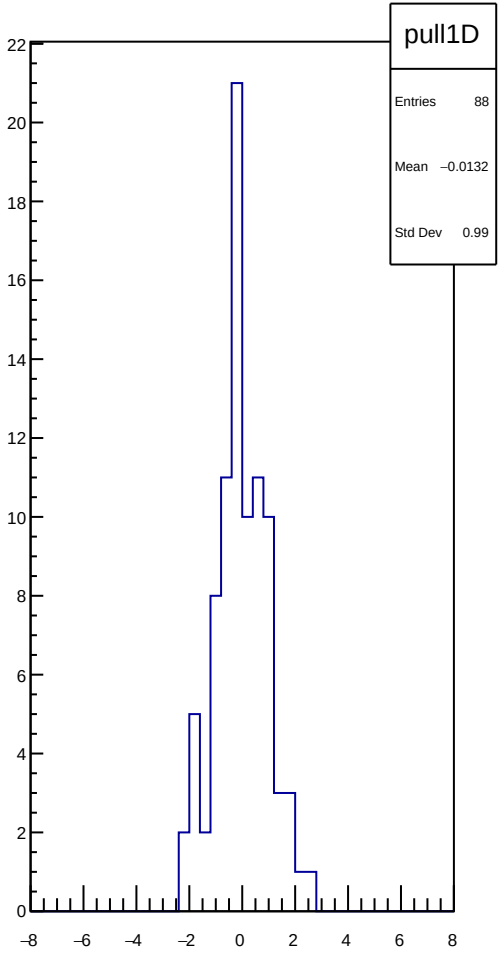

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 4426 / 87
p0 349.5 ± 0.272
400
390
380
370
360
350
340
330
320
310

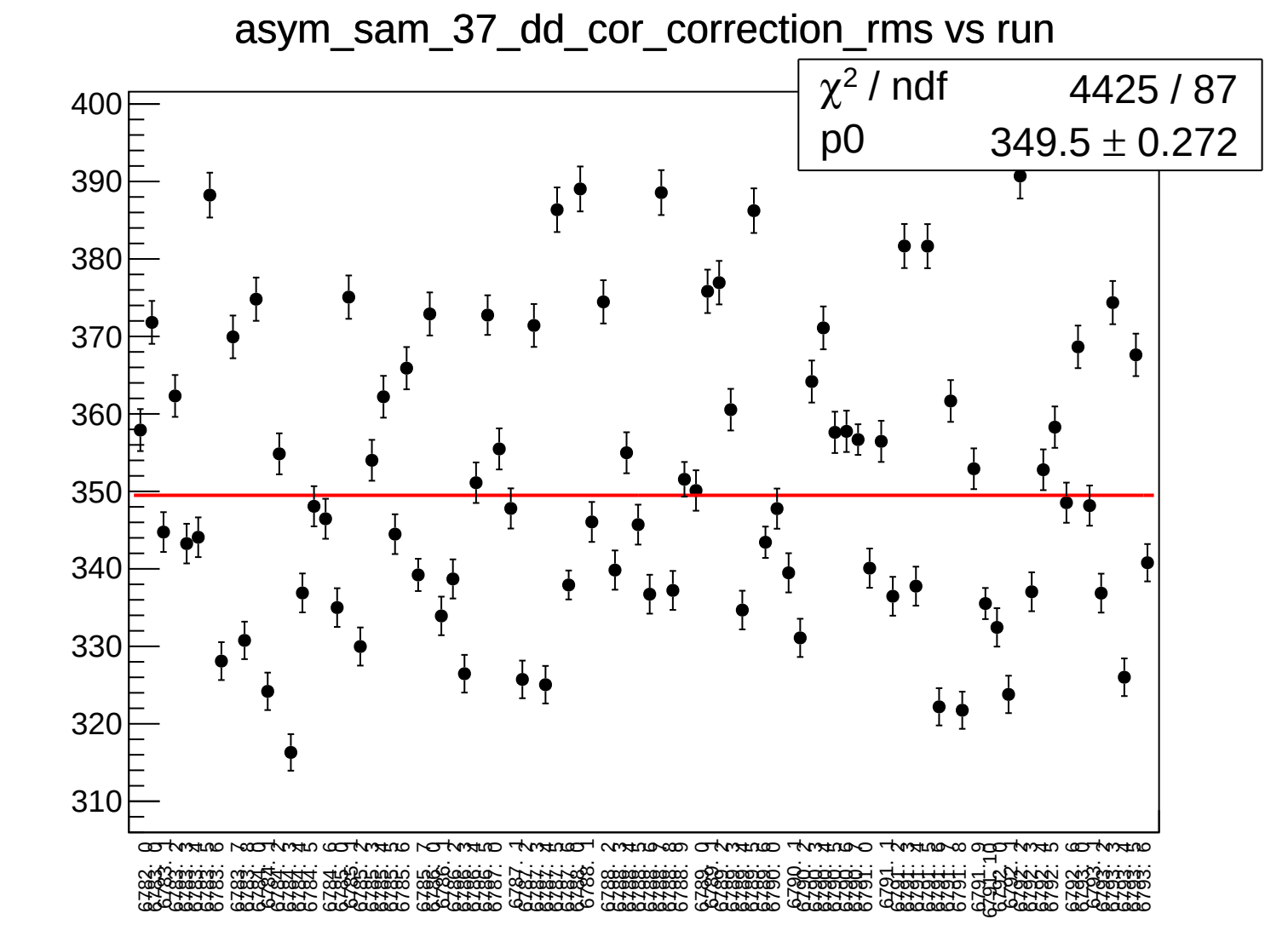

cor_asym_sam_37_dd_mean vs run
χ² / ndf 111.1 / 87
p0 −60.24 ± 61.31
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 35.43
Std Dev 38.63
3
2
1
0
−1
−2
−3

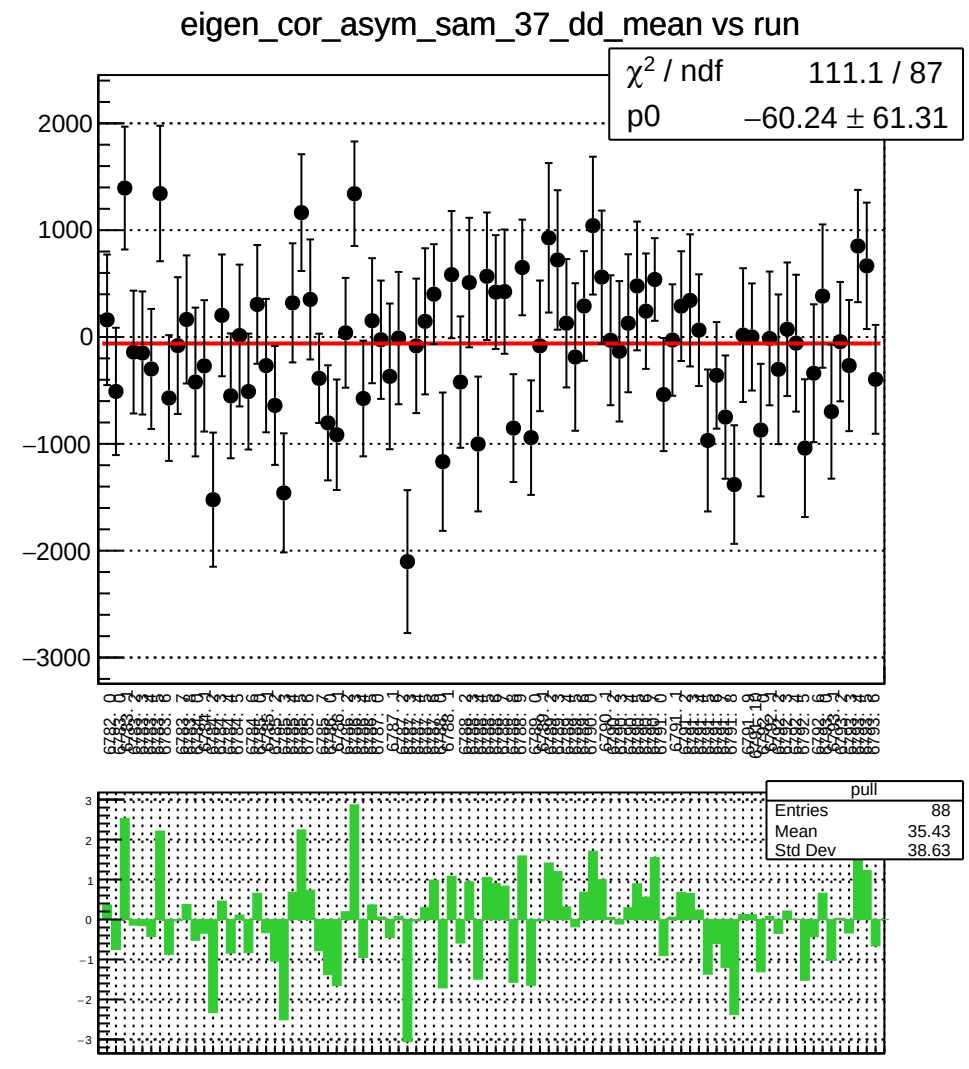

pull1D
Entries 88
Mean −0.01946
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

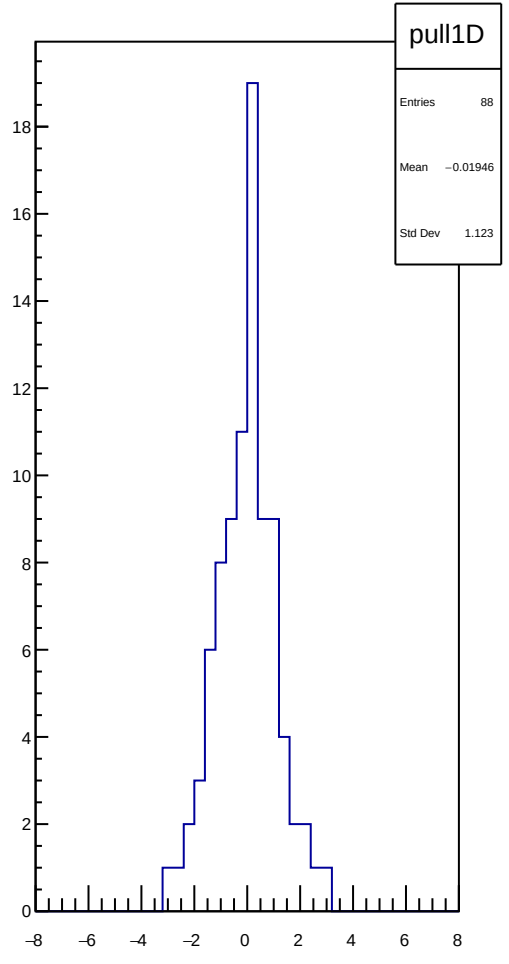

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.372e+04 / 87
p0 55.54 ± 0.04335
65
60
55
50
45

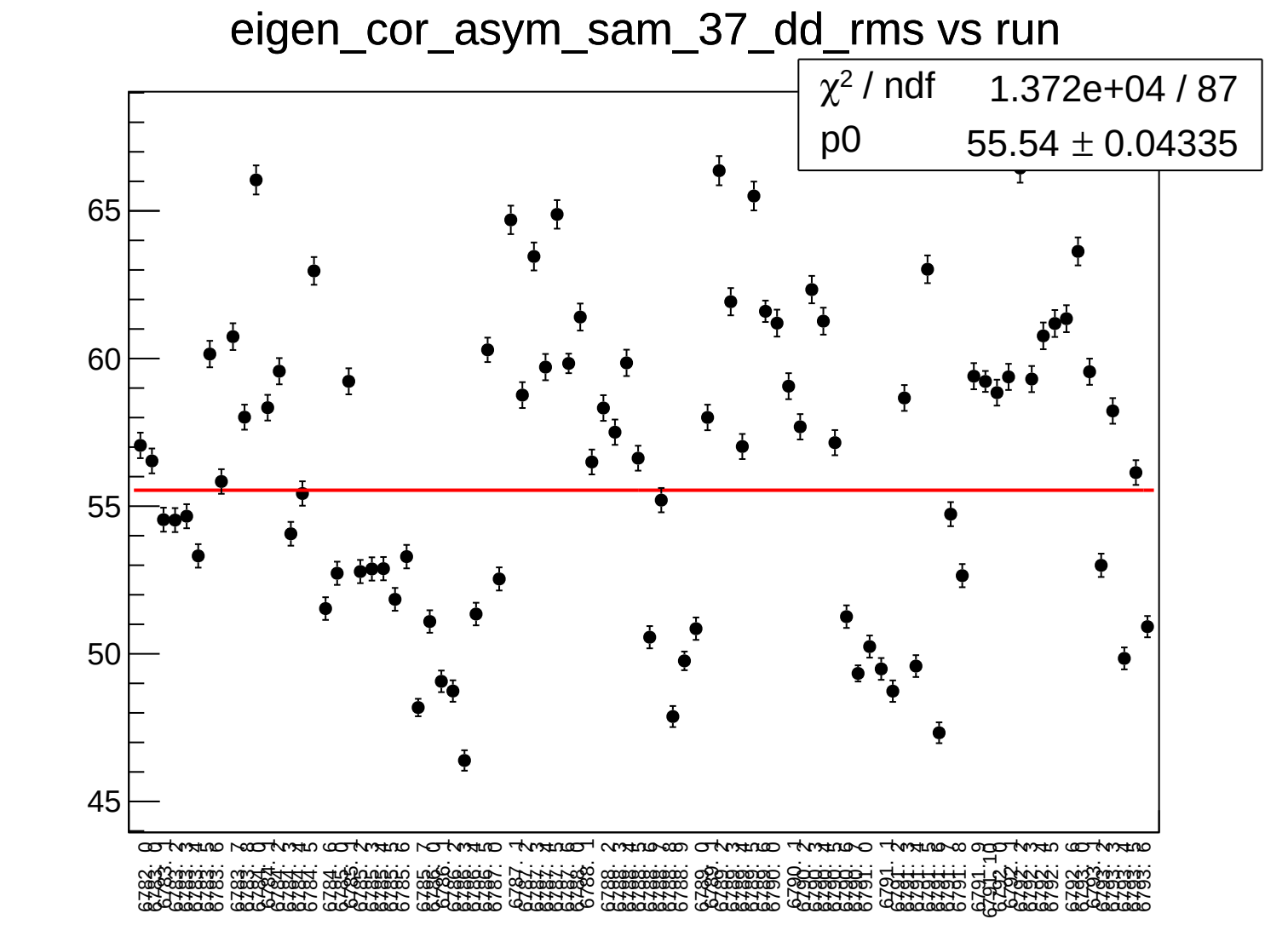

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 86.27 / 87
p0 −1421 ± 384.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −281.2
Std Dev 0
2
1
0
−1
−2

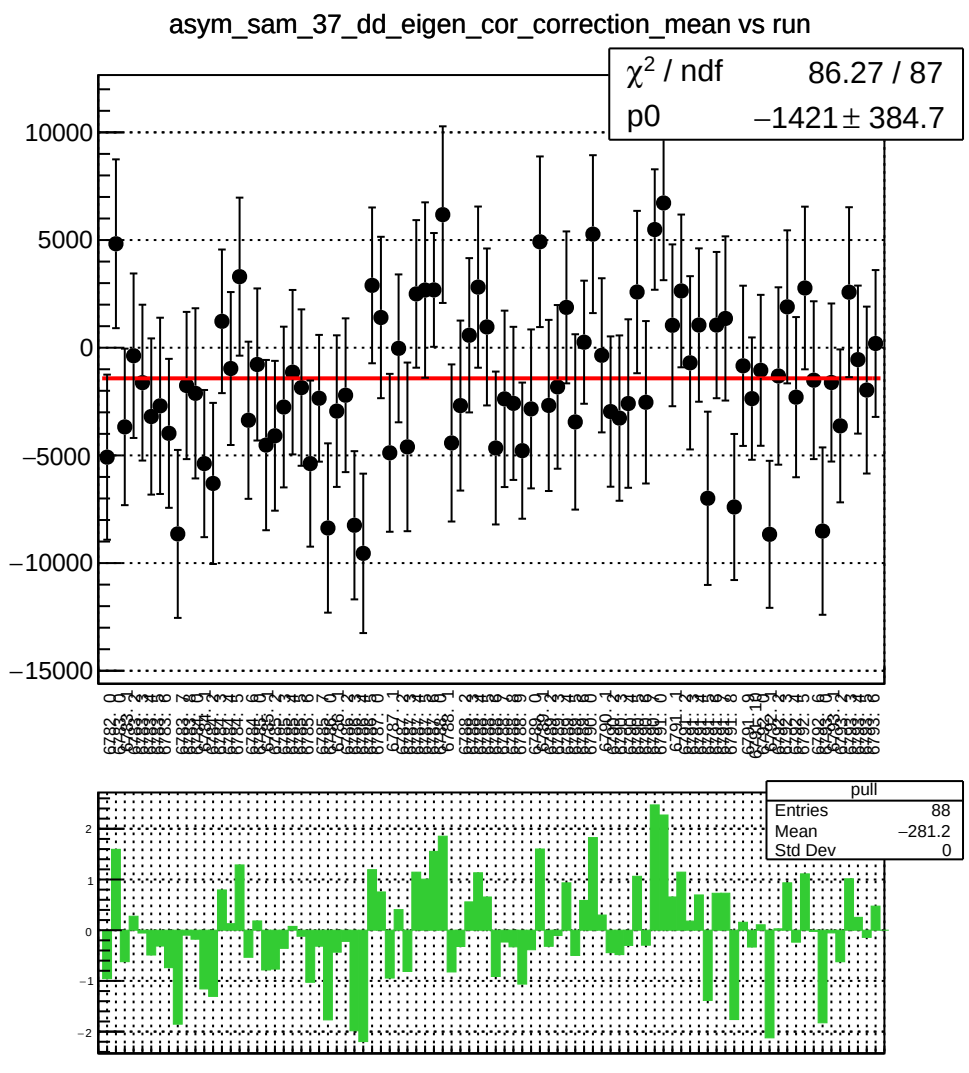

pull1D
Entries 88
Mean −0.0132
Std Dev 0.99
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

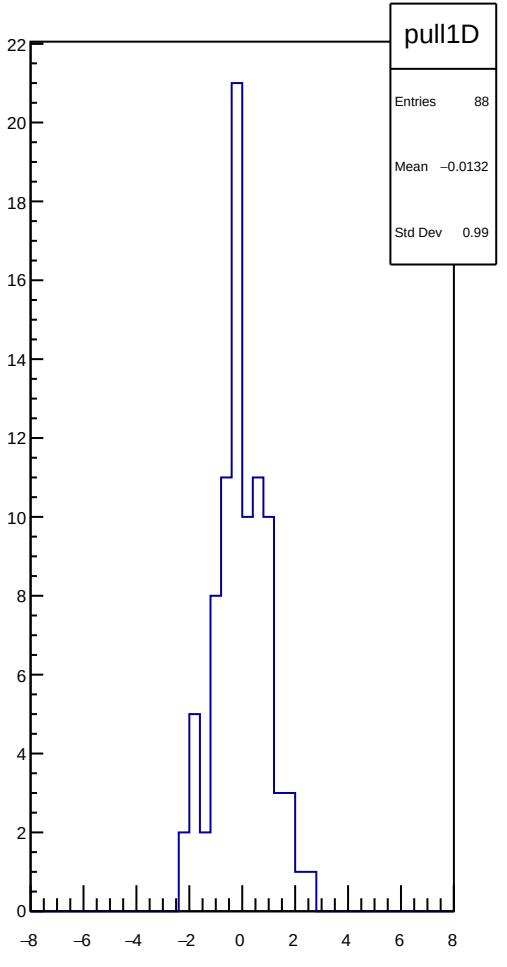

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 4425 / 87
p0 349.5 ± 0.272
400
390
380
370
360
350
340
330
320
310

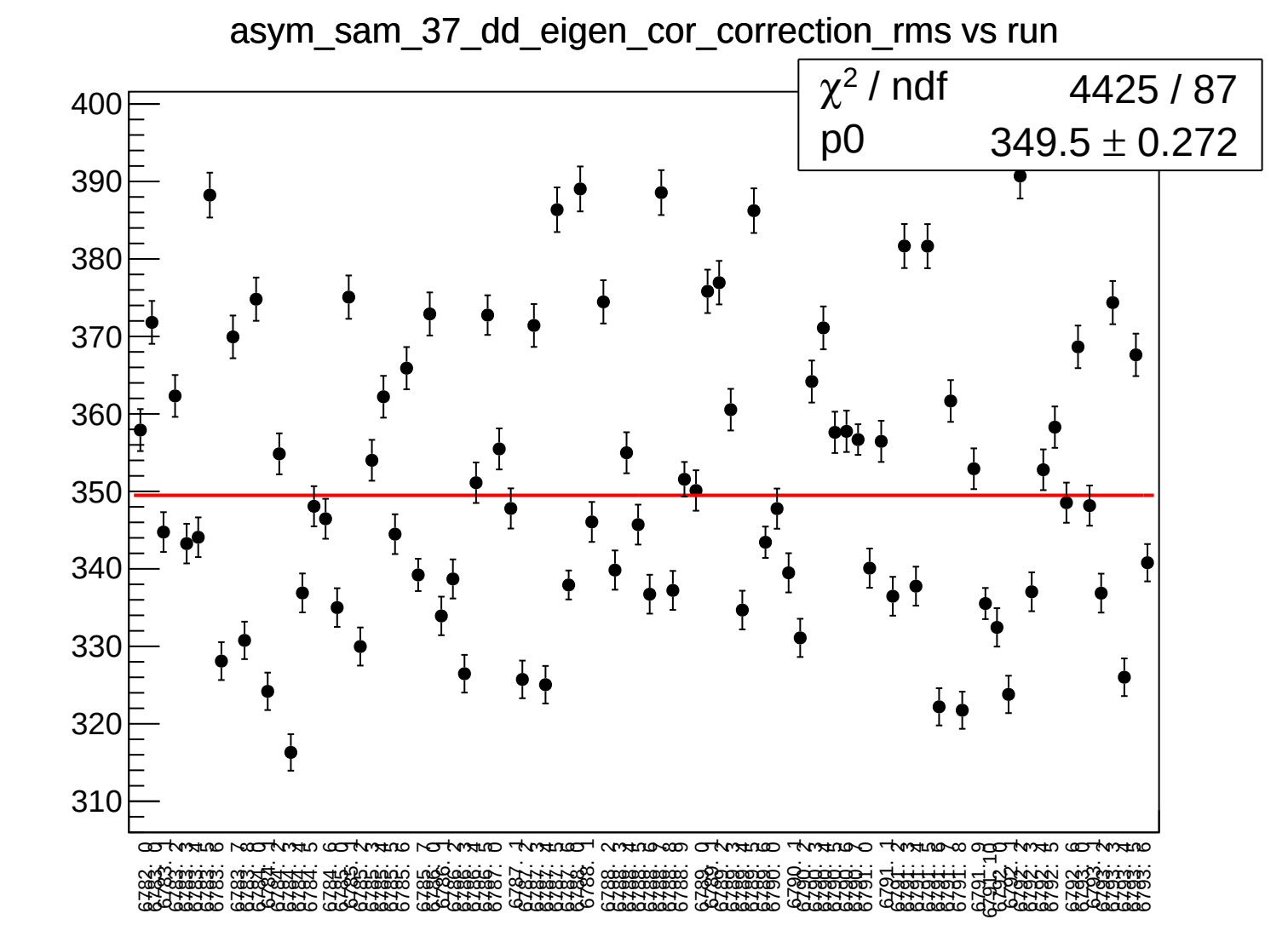

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 111.1 / 87
p0 −60.24 ± 61.31
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 35.43
Std Dev 38.63
3
2
1
0
−1
−2
−3

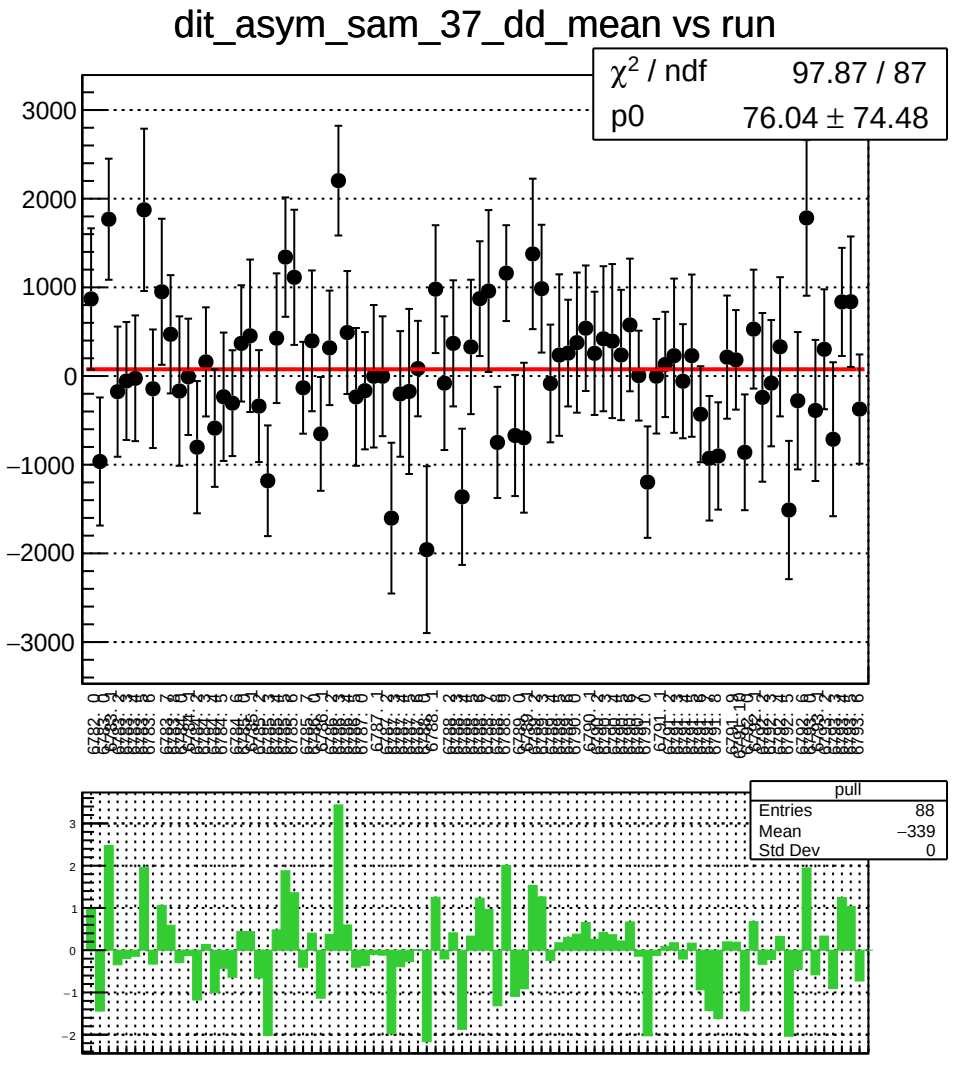

pull1D
Entries 88
Mean −0.01946
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

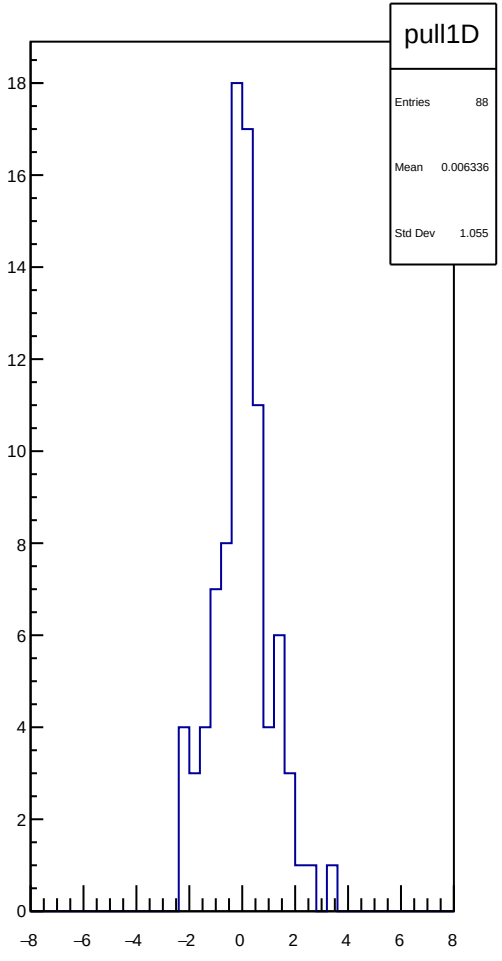

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.372e+04 / 87
p0 55.54 ± 0.04335
65
60
55
50
45

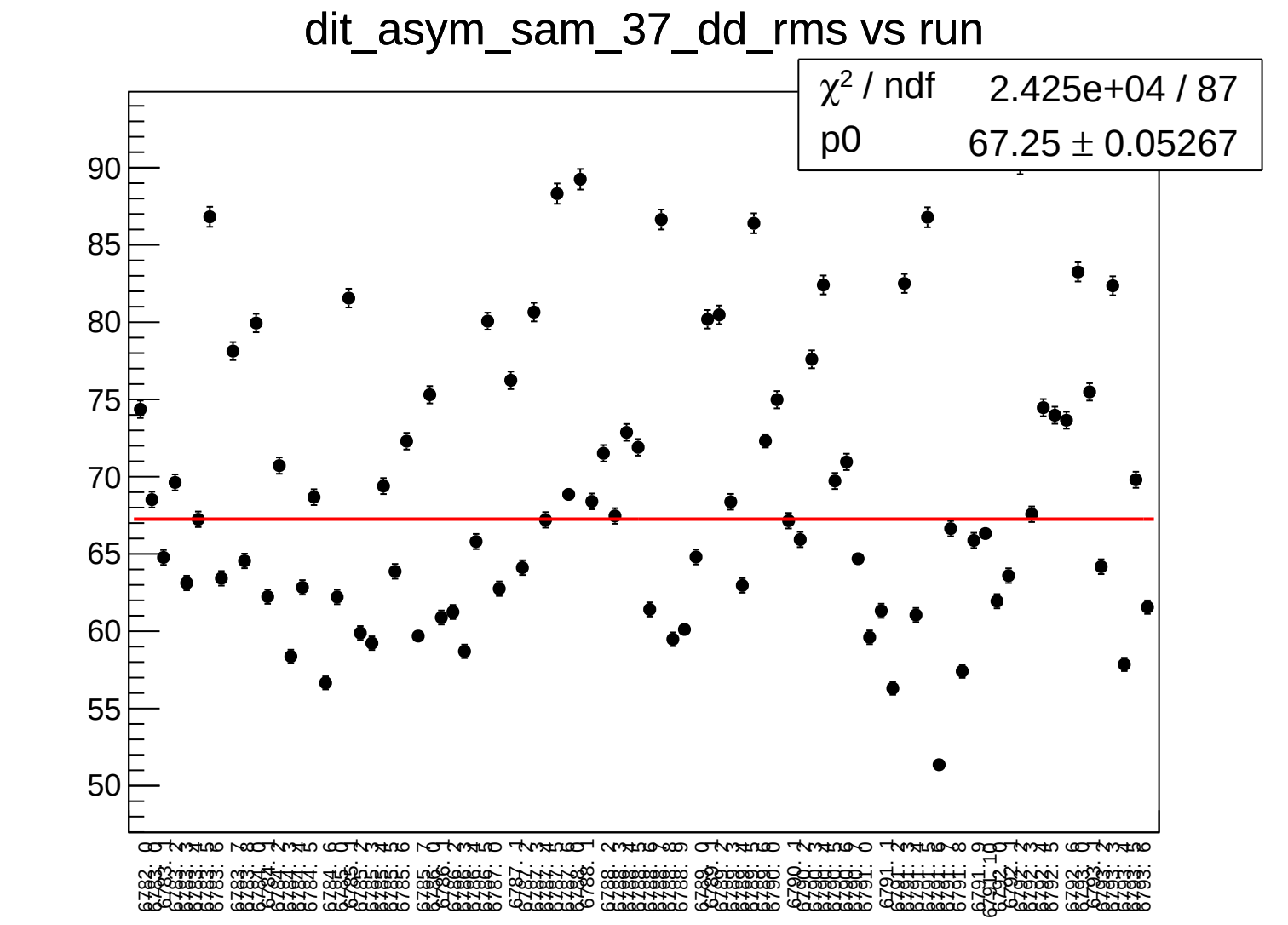

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.27 / 87
p0 −1421 ± 384.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −281.2
Std Dev 0
2
1
0
−1
−2

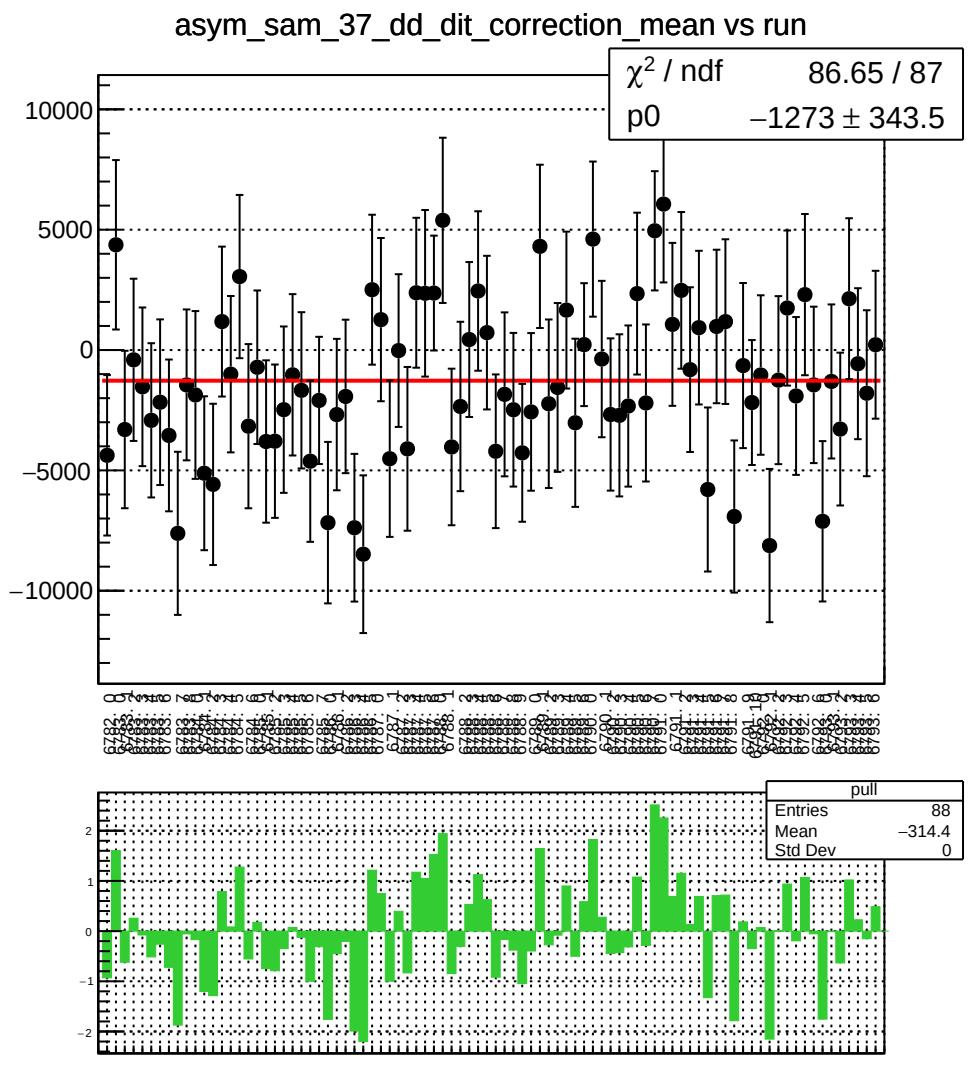

pull1D
Entries 88
Mean −0.0132
Std Dev 0.99
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

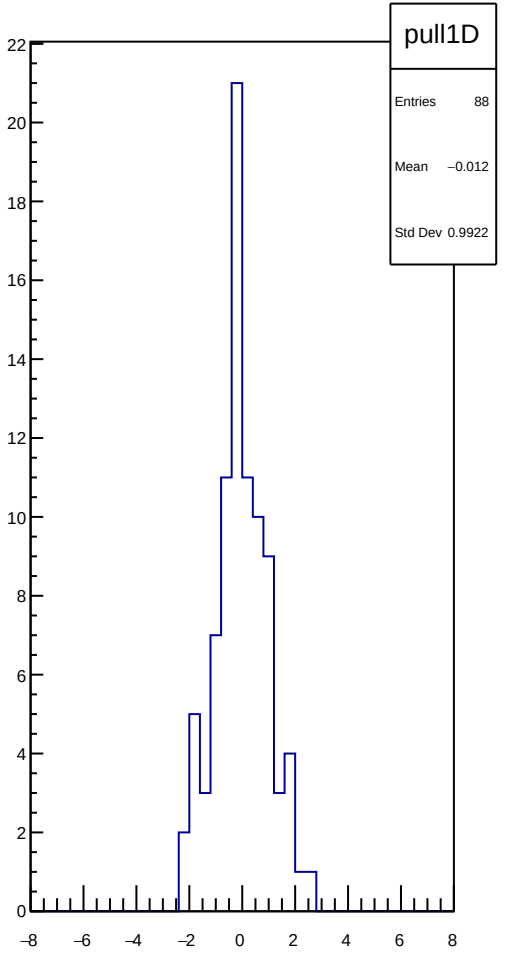

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4425 / 87
p0 349.5 ± 0.272
400
390
380
370
360
350
340
330
320
310

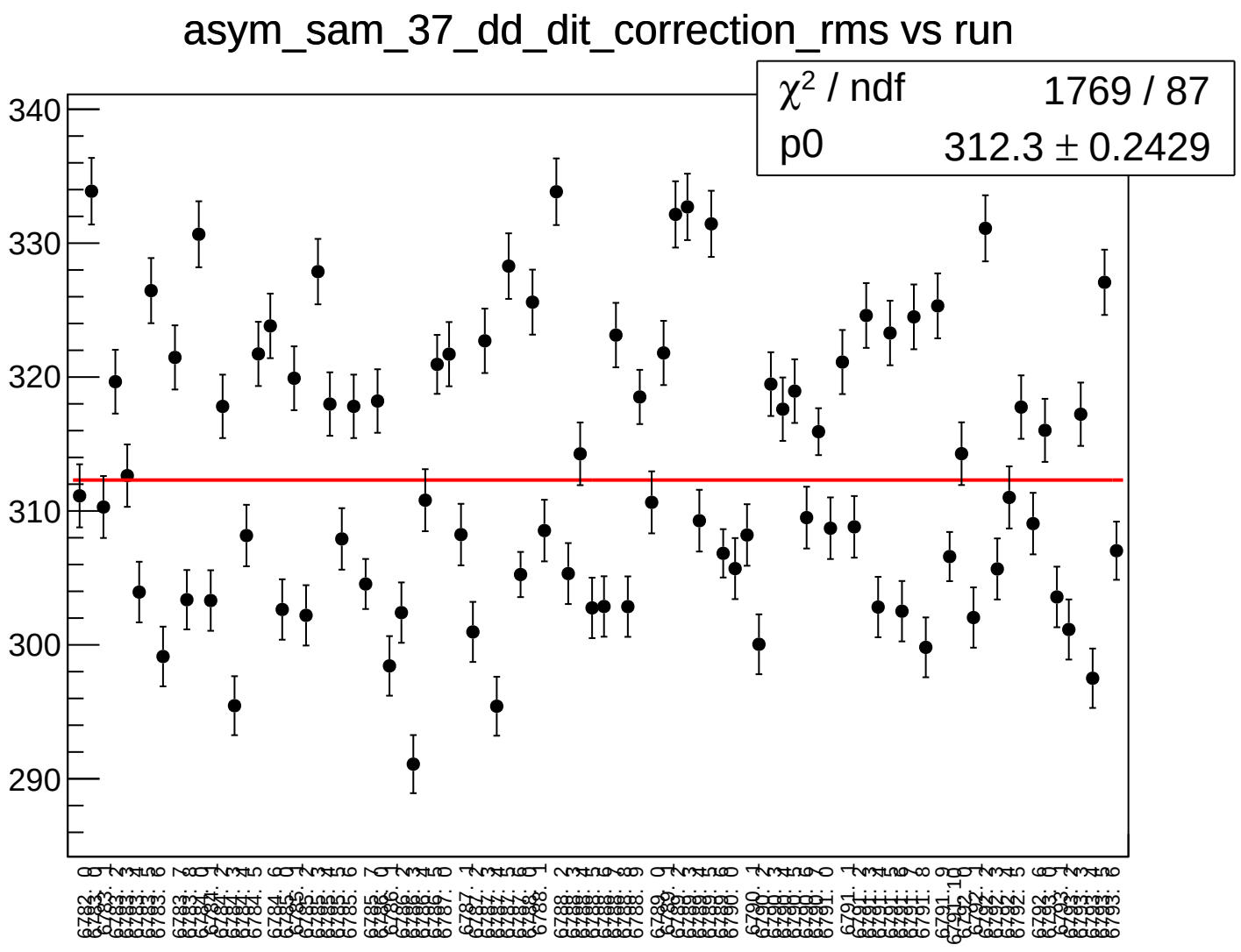

dit_asym_sam_37_dd_mean vs run
χ² / ndf 97.87 / 87
p0 76.04 ± 74.48
pull
Entries 88
Mean −339
Std Dev 0

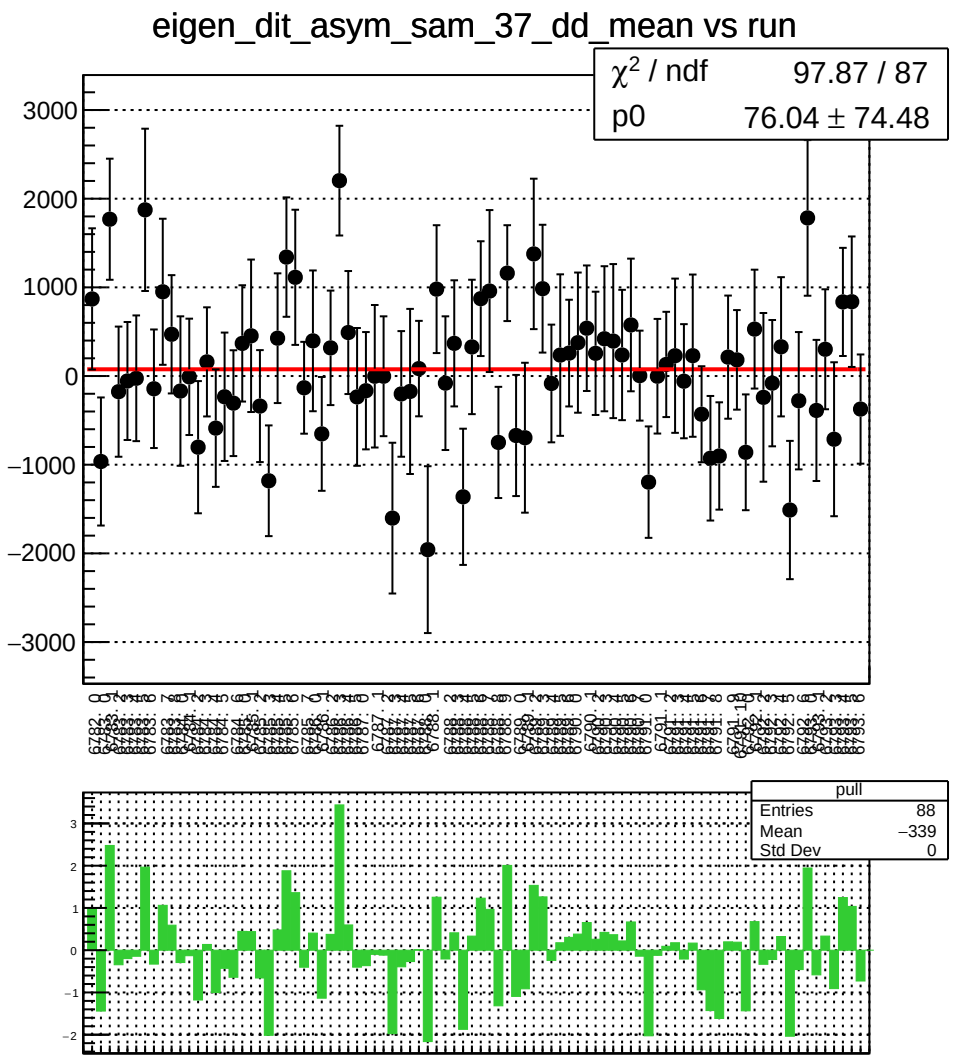

pull1D
Entries 88
Mean 0.006336
Std Dev 1.055

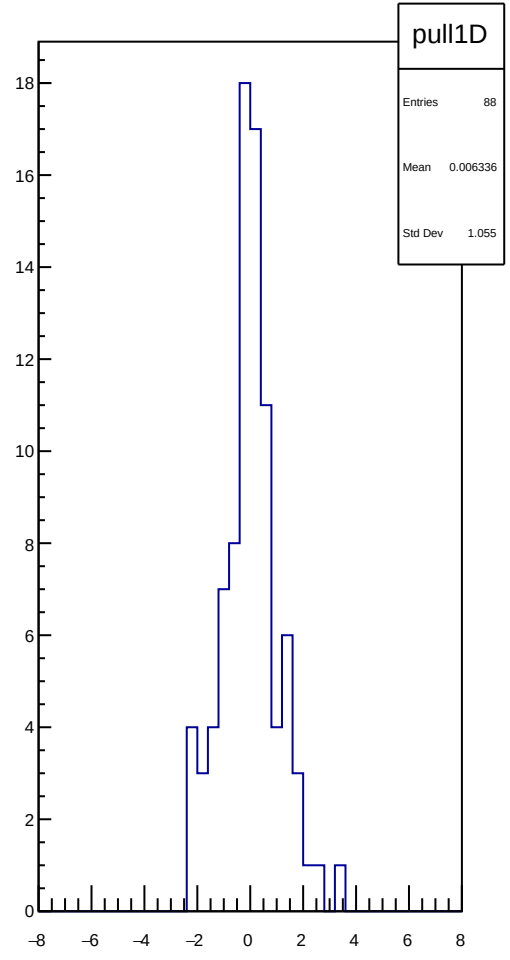

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.425e+04 / 87
p0 67.25 ± 0.05267
90
85
80
75
70
65
60
55
50

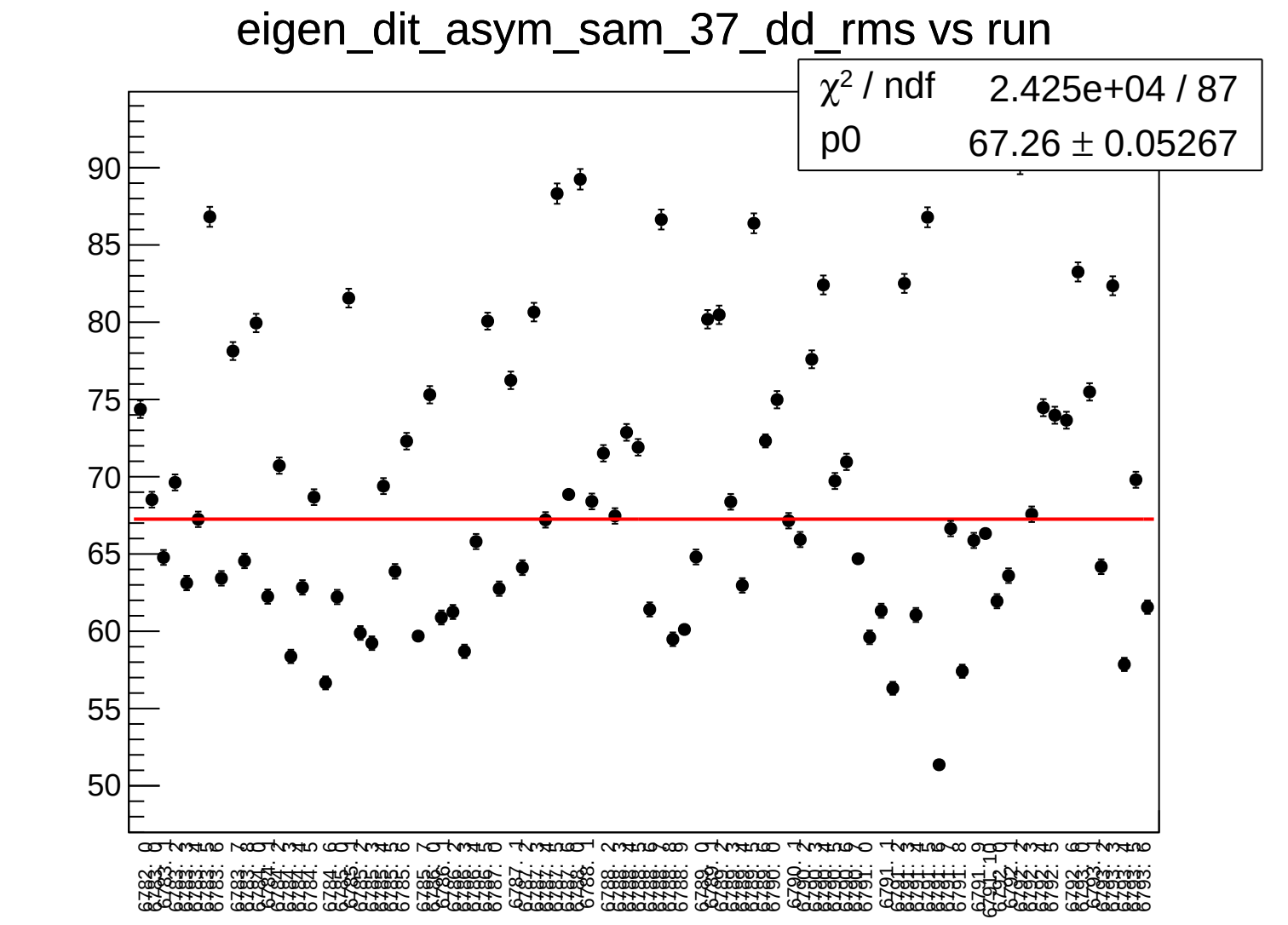

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 86.65 / 87
p0 −1273 ± 343.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −314.4
Std Dev 0
2
1
0
−1
−2

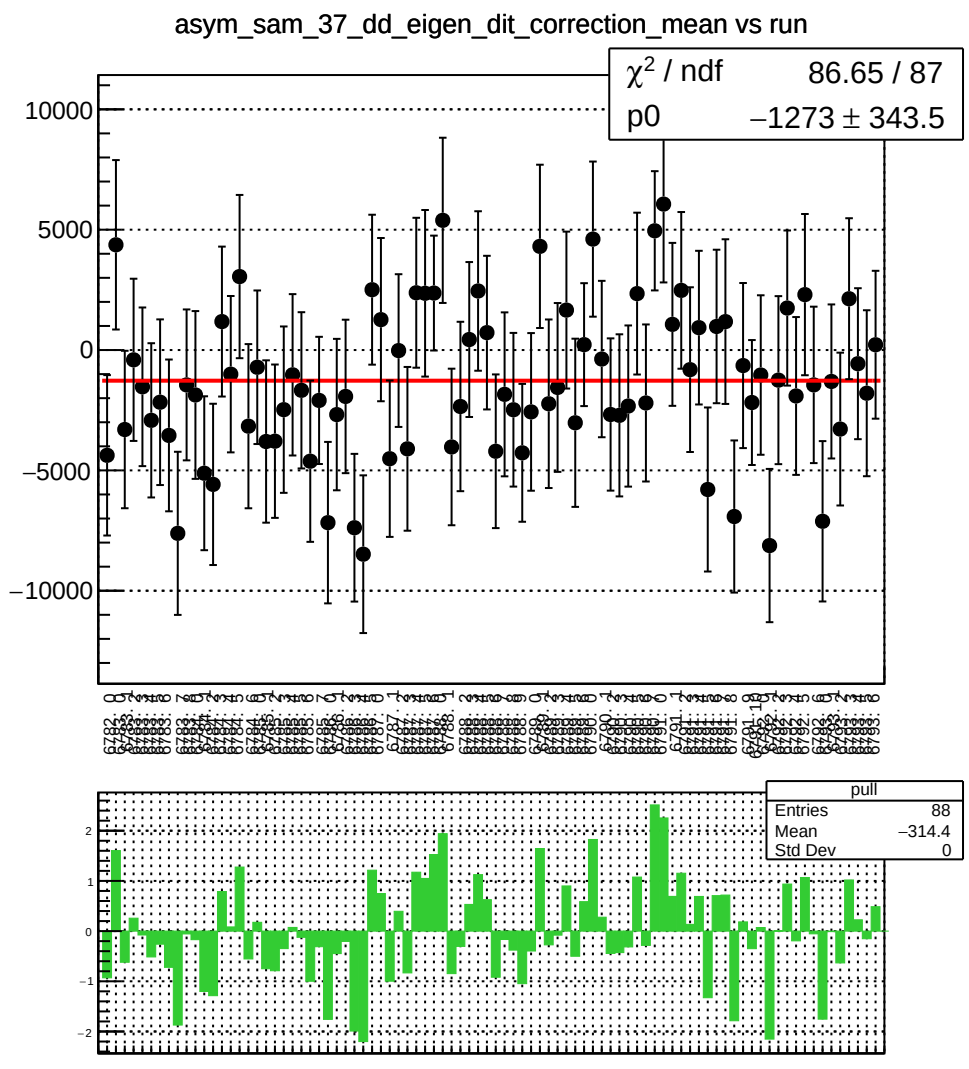

pull1D
Entries 88
Mean −0.012
Std Dev 0.9922
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

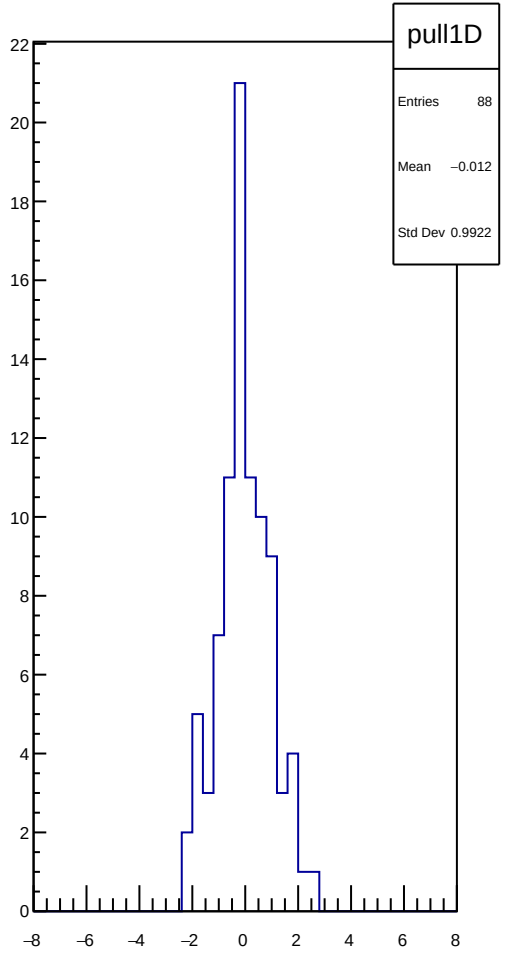

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1769 / 87
p0 312.3 ± 0.2429
340
330
320
310
300
290

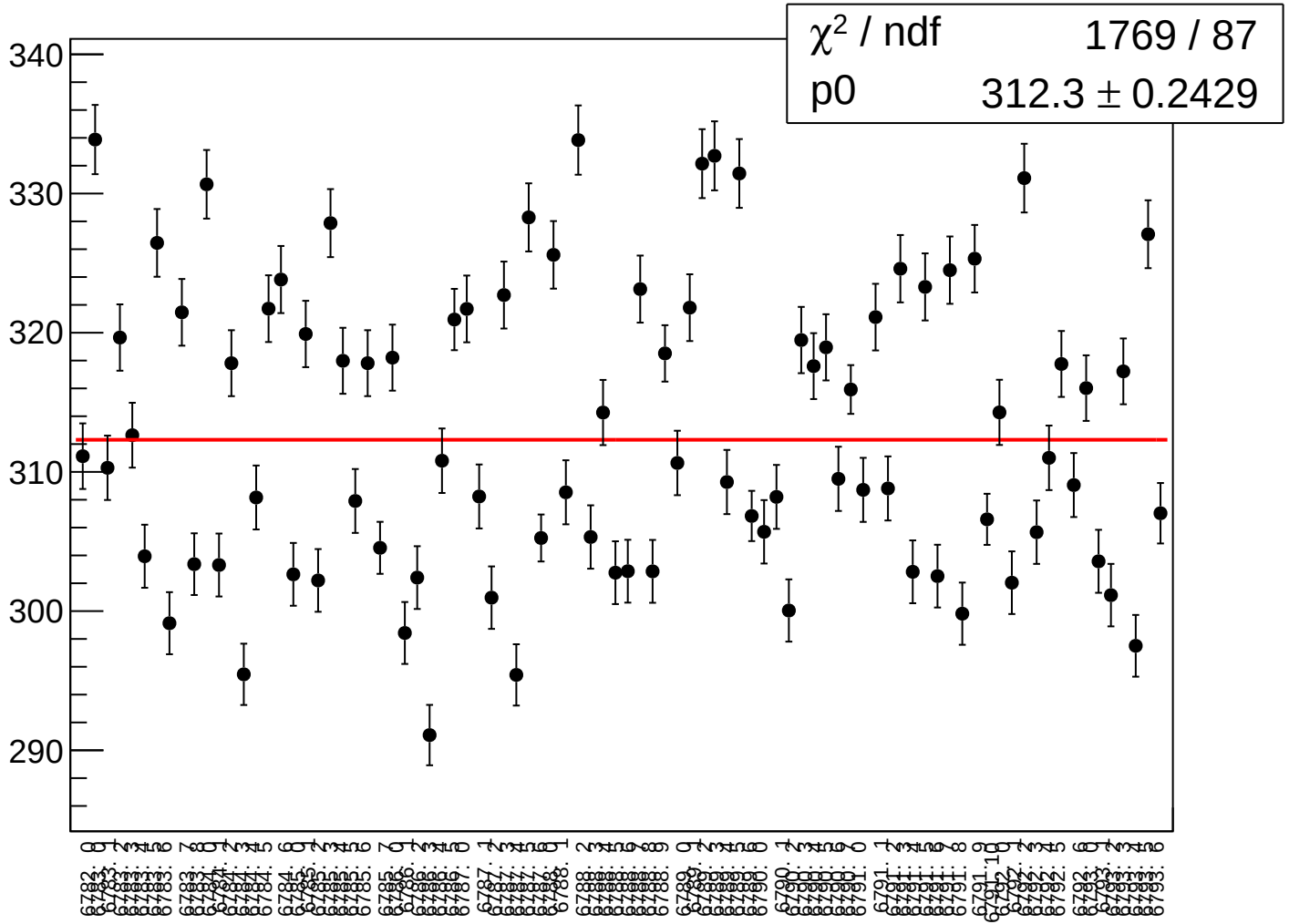

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 97.87 / 87
p0 76.04 ± 74.48
pull
Entries 88
Mean −339
Std Dev 0

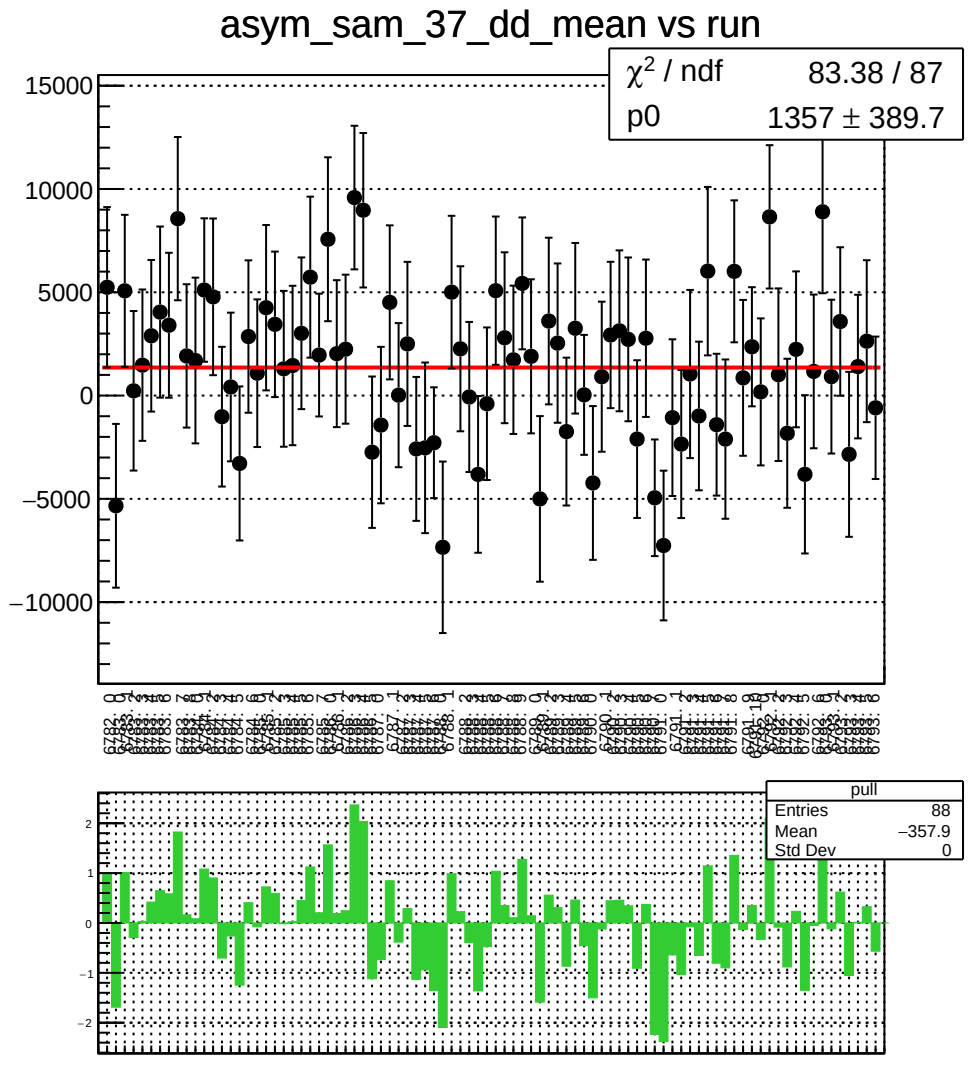

pull1D
Entries 88
Mean 0.006336
Std Dev 1.055

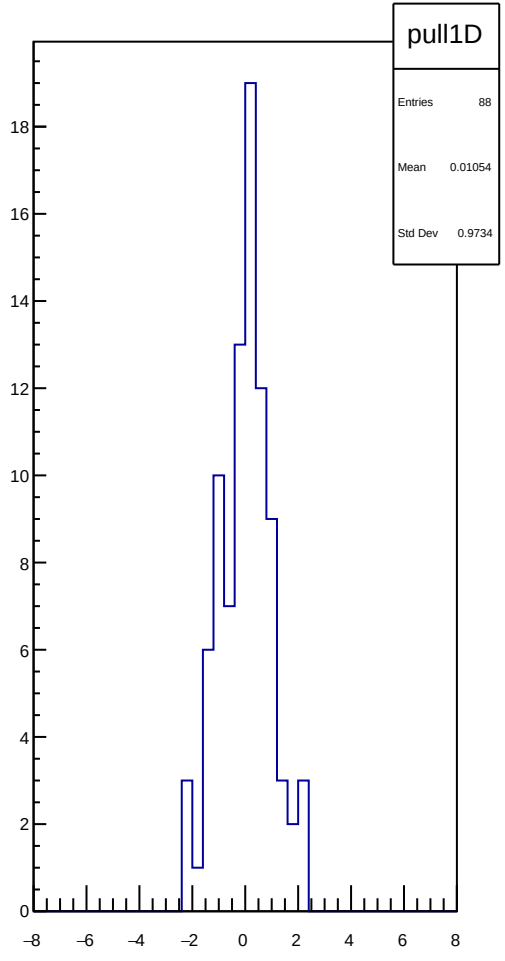

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.425e+04 / 87
p0 67.26 ± 0.05267
90
85
80
75
70
65
60
55
50

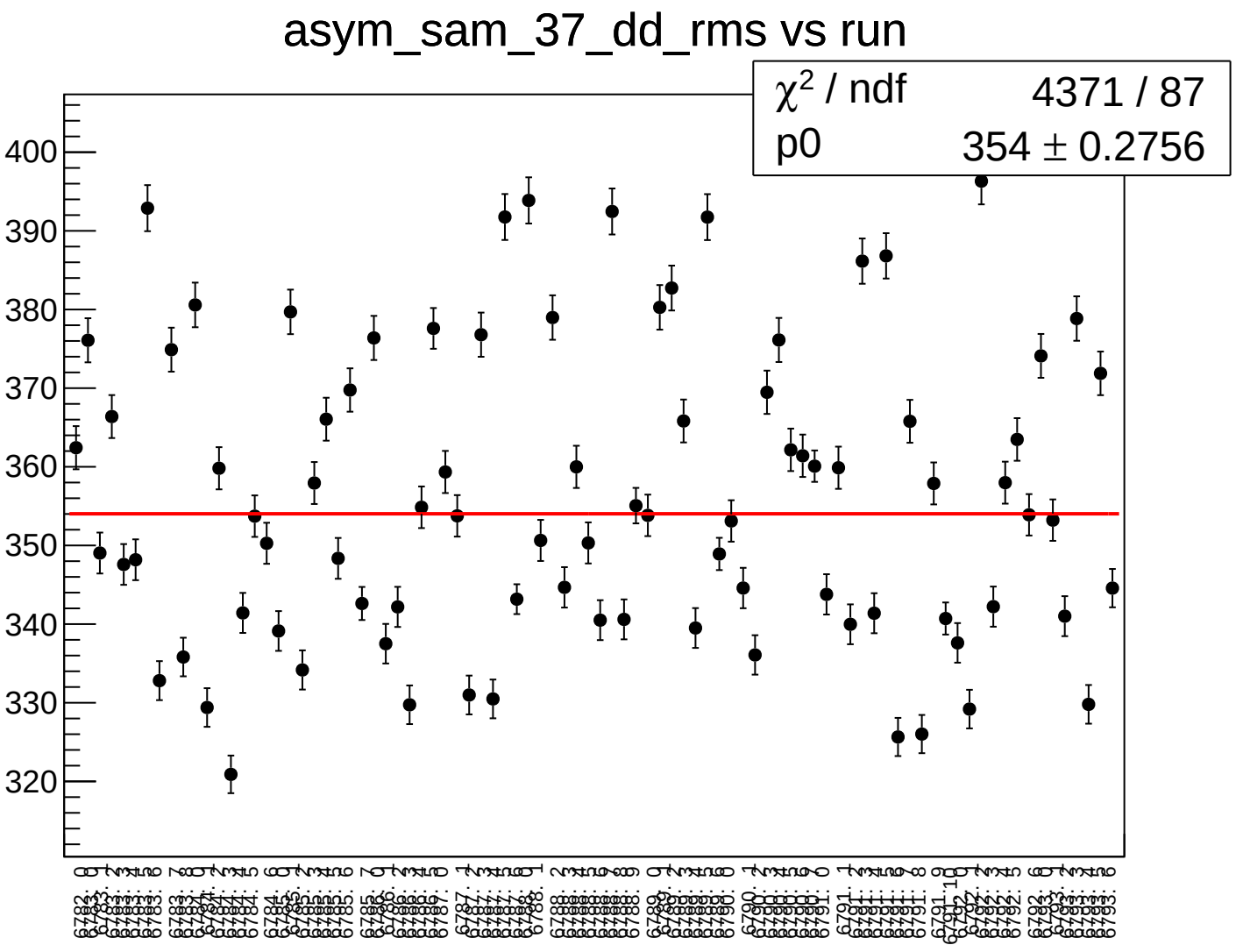

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.65 / 87
p0 −1273 ± 343.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −314.4
Std Dev 0
2
1
0
−1
−2

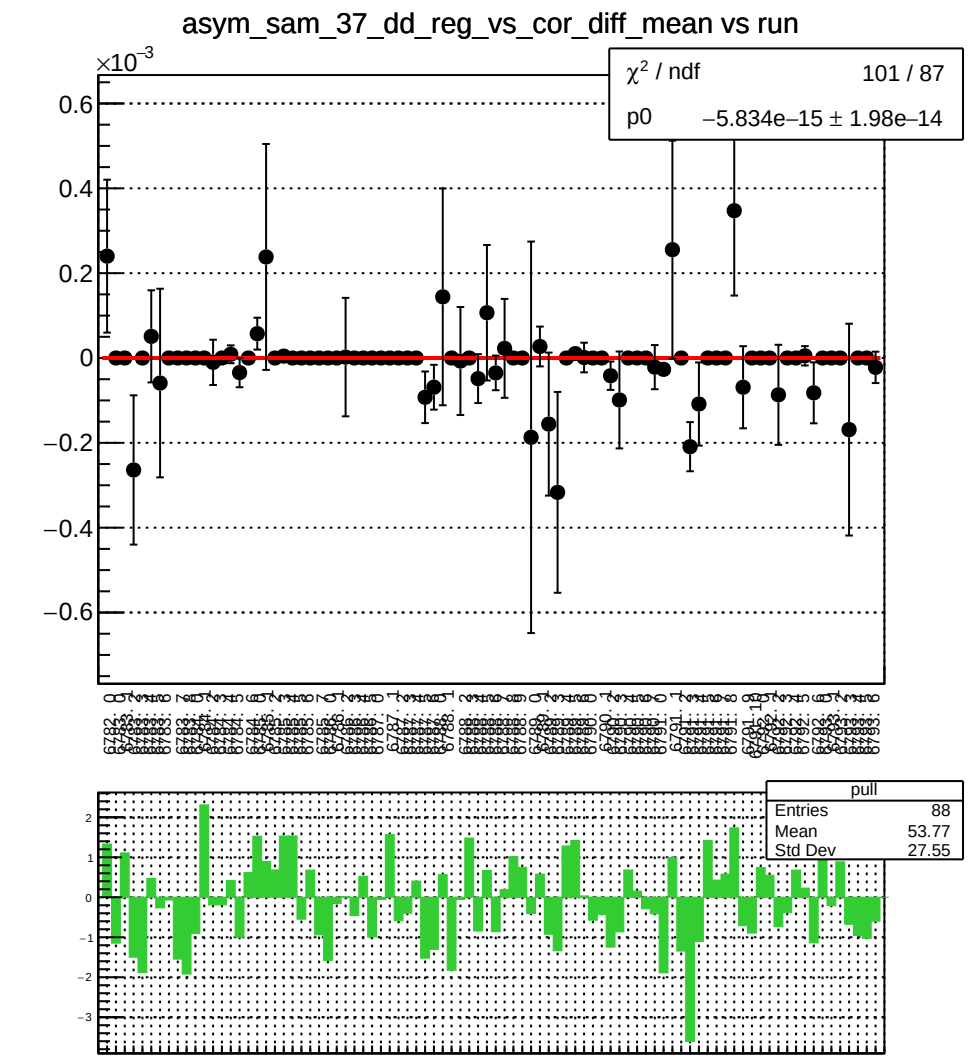

pull1D
Entries 88
Mean −0.012
Std Dev 0.9922
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

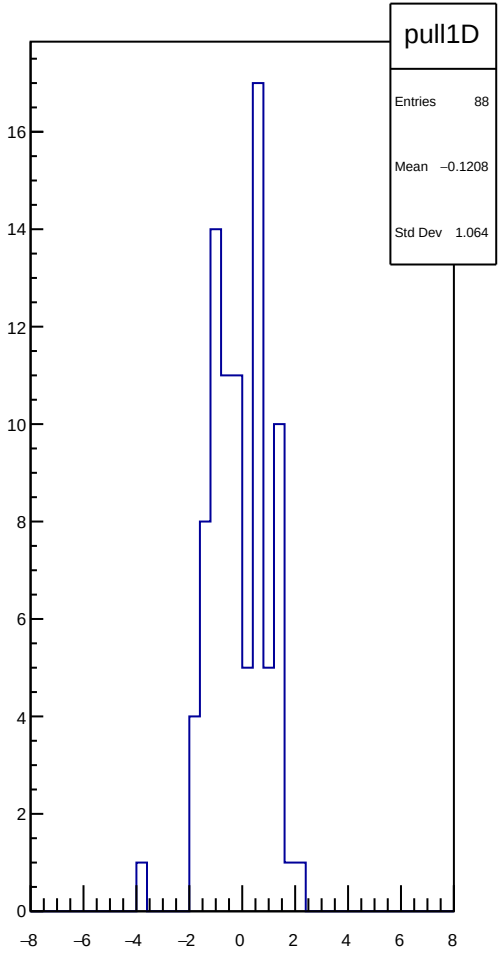

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1769 / 87
p0 312.3 ± 0.2429
340
330
320
310
300
290

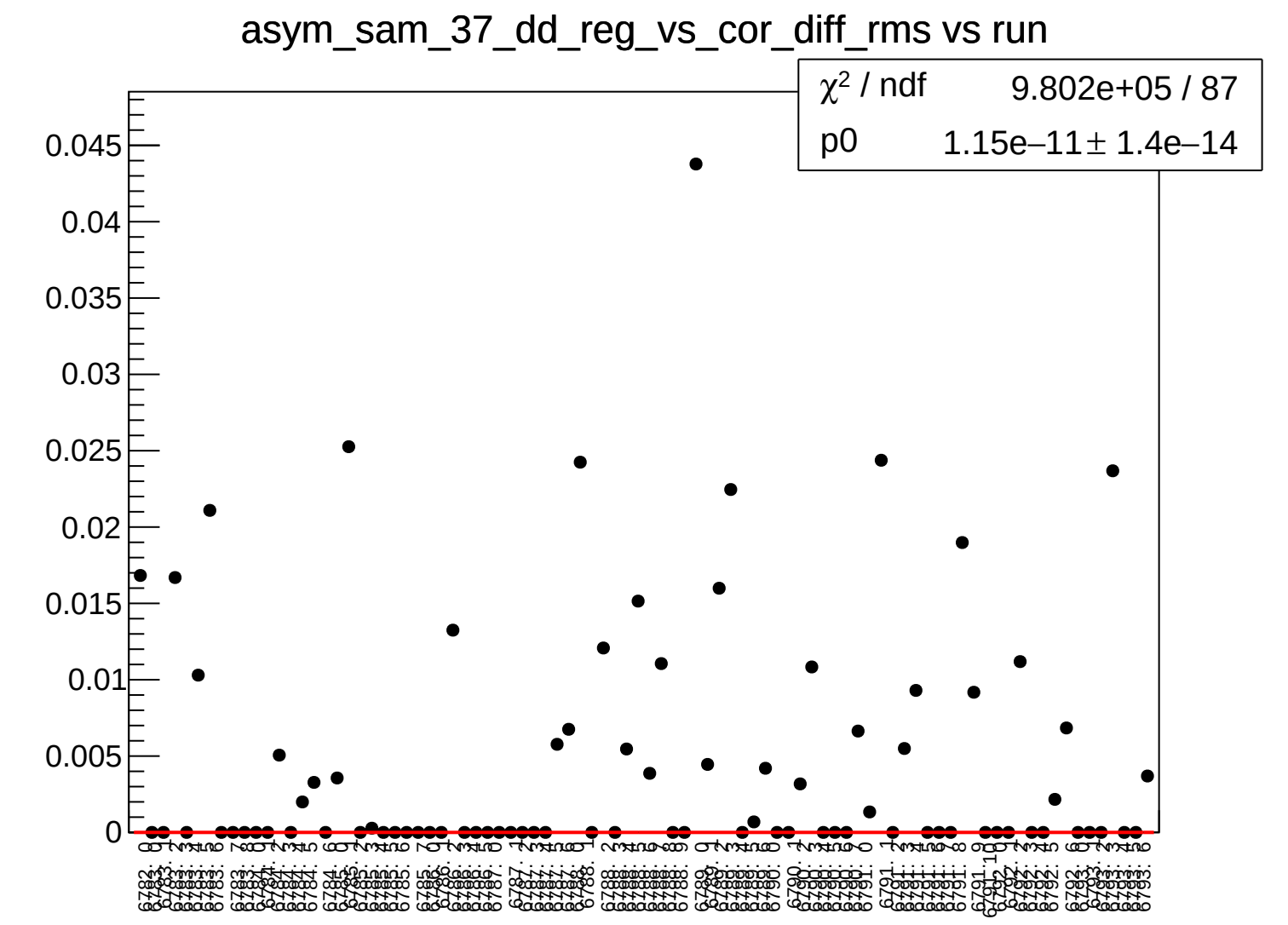

asym_sam_37_dd_mean vs run
χ² / ndf 83.38 / 87
p0 1357 ± 389.7
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −357.9
Std Dev 0
2
1
0
−1
−2

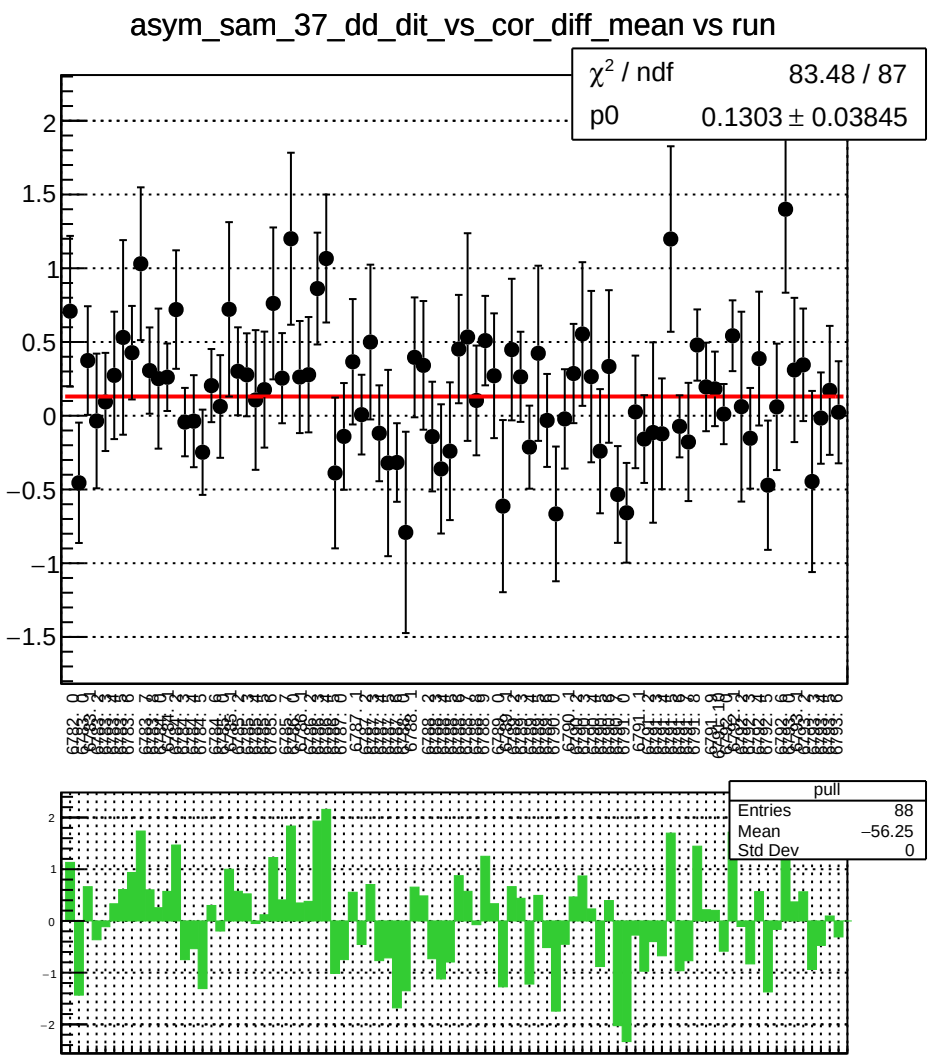

pull1D
Entries 88
Mean 0.01054
Std Dev 0.9734
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

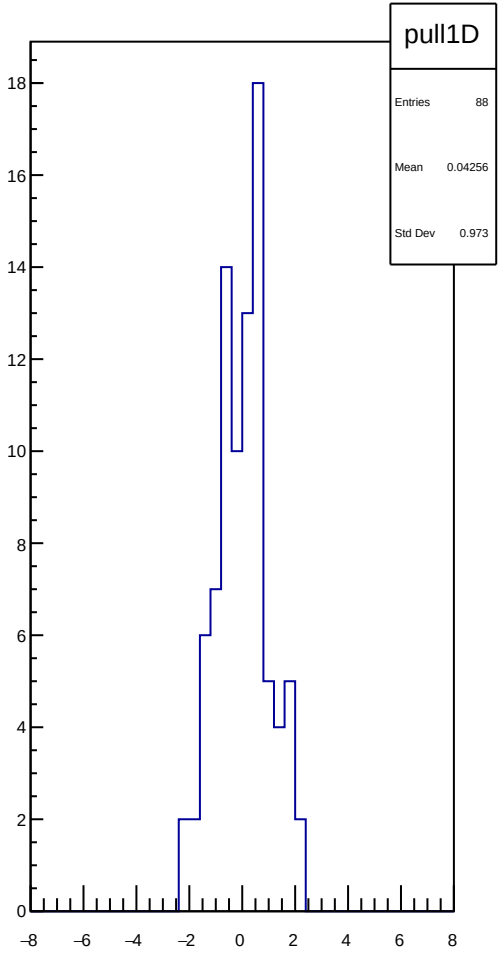

asym_sam_37_dd_rms vs run
χ² / ndf 4371 / 87
p0 354 ± 0.2756
400
390
380
370
360
350
340
330
320

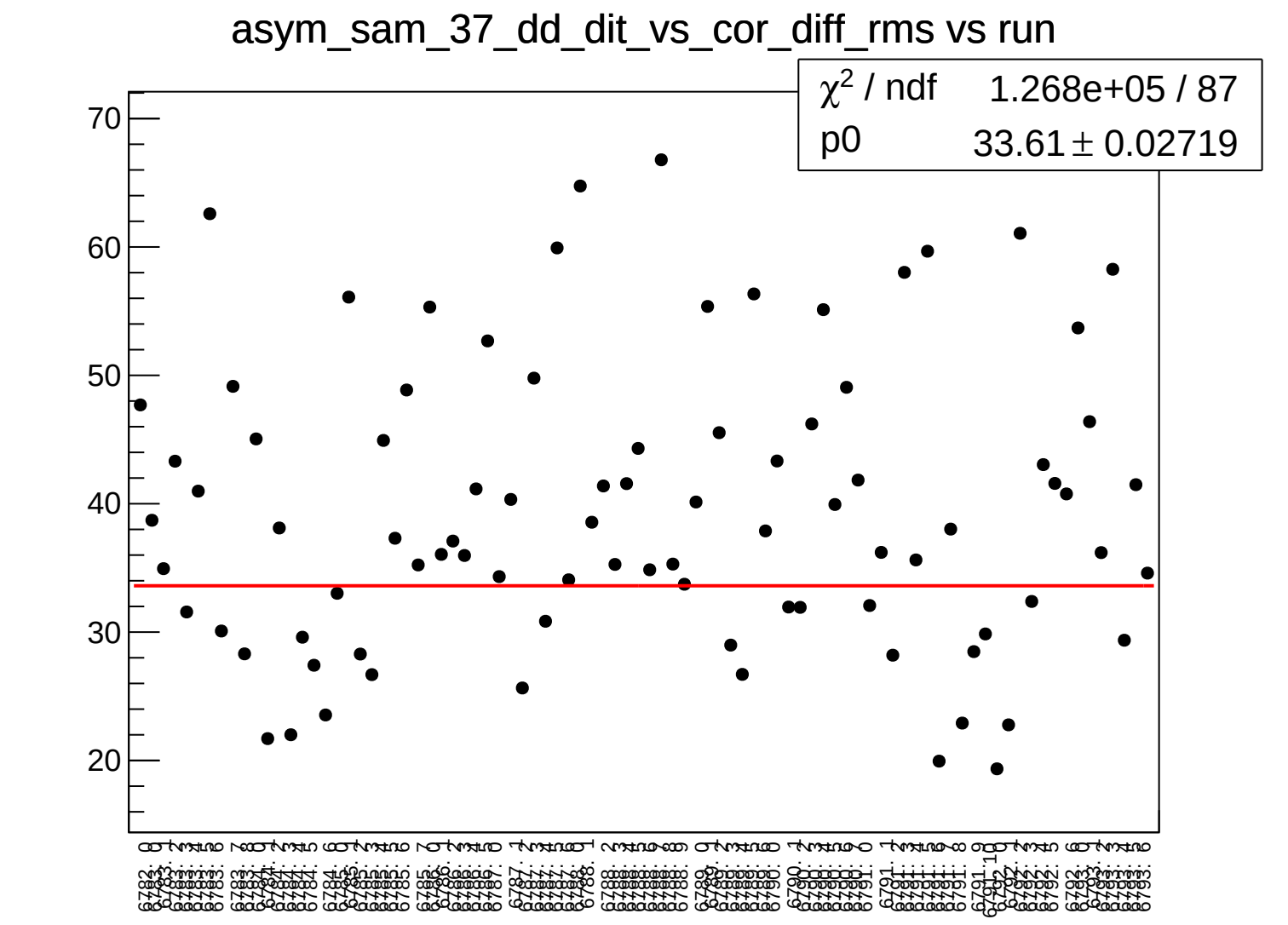

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 101 / 87
p0 −5.834e−15 ± 1.98e−14
pull
Entries 88
Mean 53.77
Std Dev 27.55

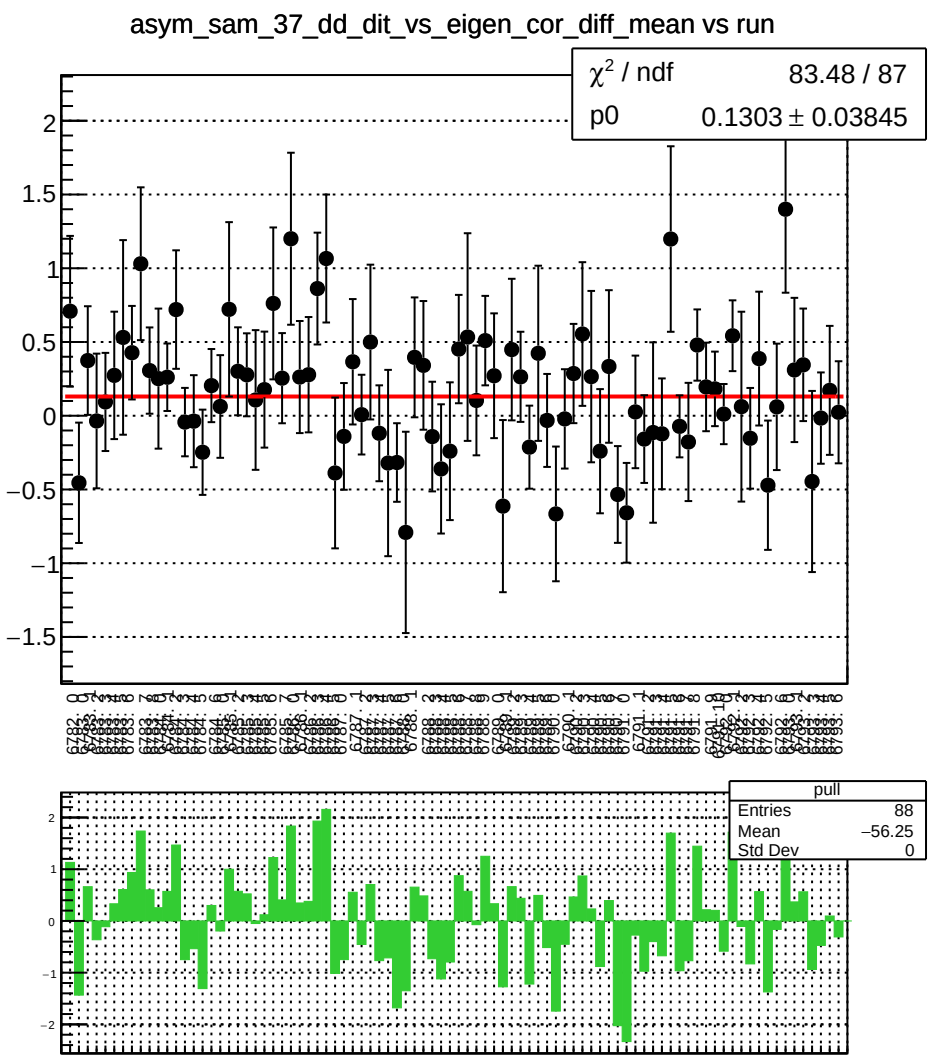

pull1D
Entries 88
Mean −0.1208
Std Dev 1.064

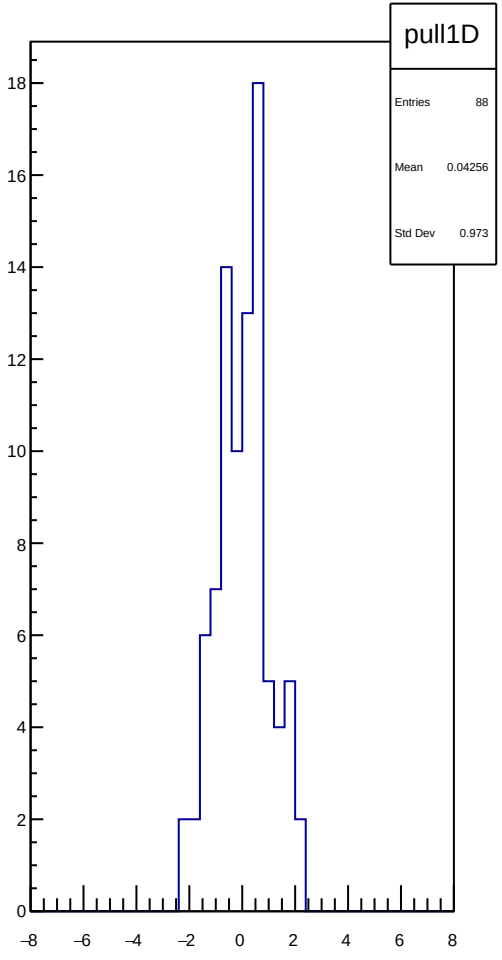

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.802e+05 / 87
p0 1.15e−11 ± 1.4e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

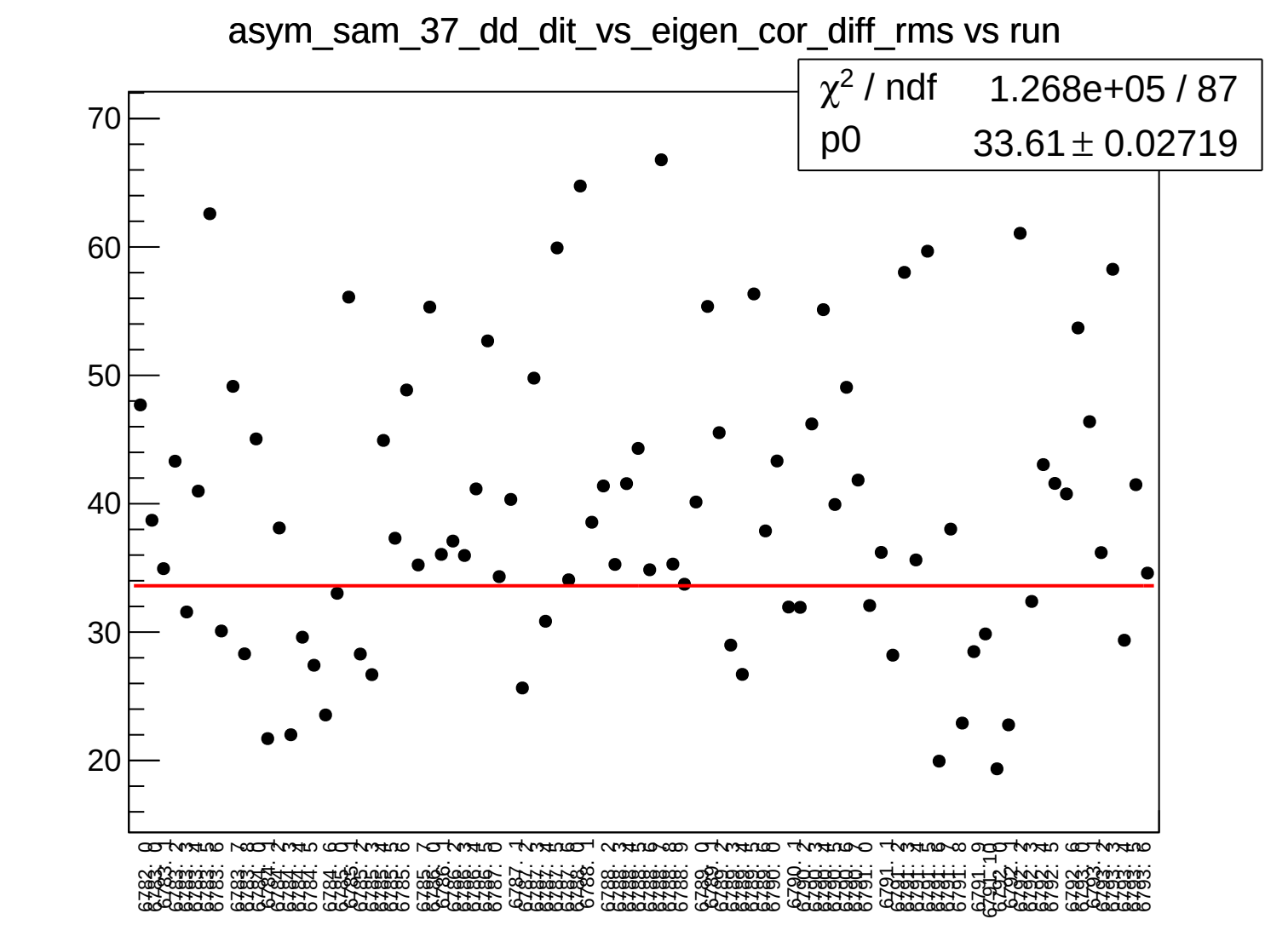

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ^2 / ndf 83.48 / 87
p0 0.1303 ± 0.03845
pull
Entries 88
Mean −56.25
Std Dev 0

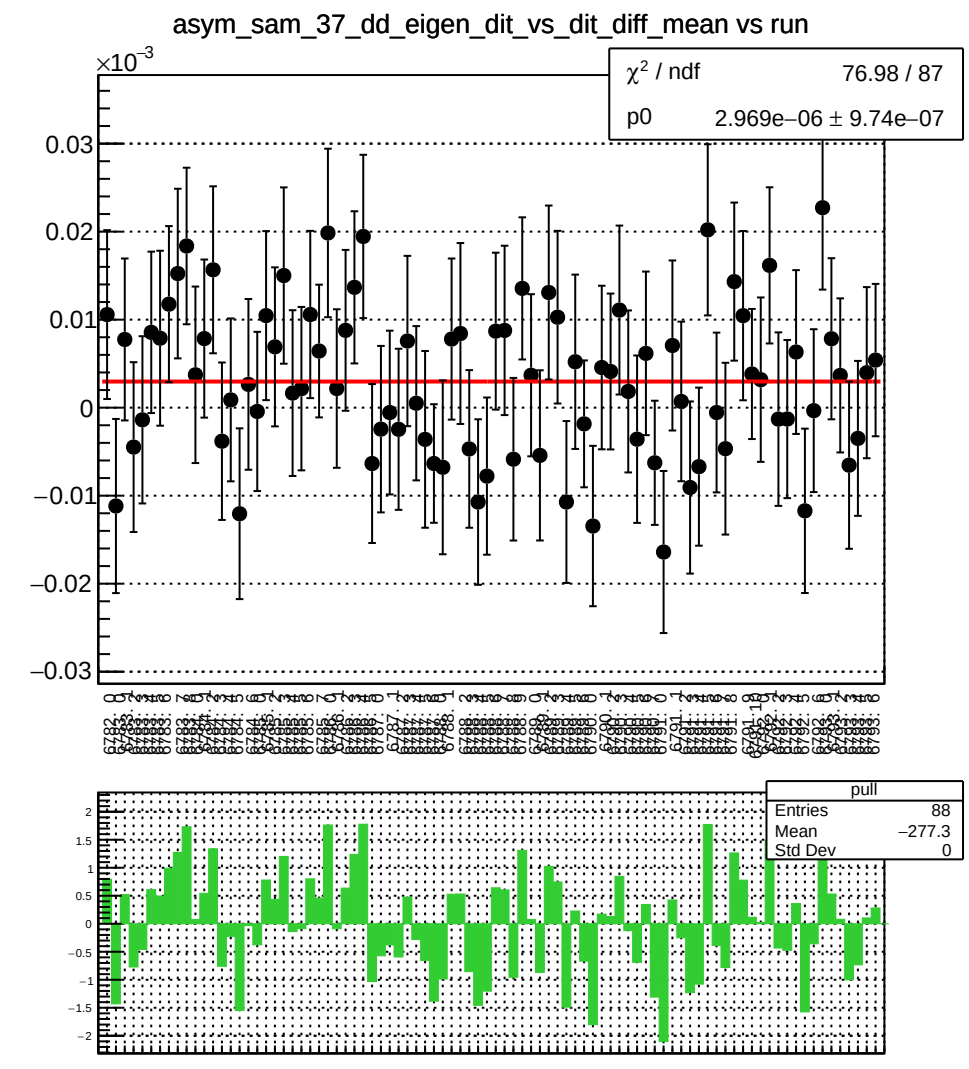

pull1D
Entries 88
Mean 0.04256
Std Dev 0.973

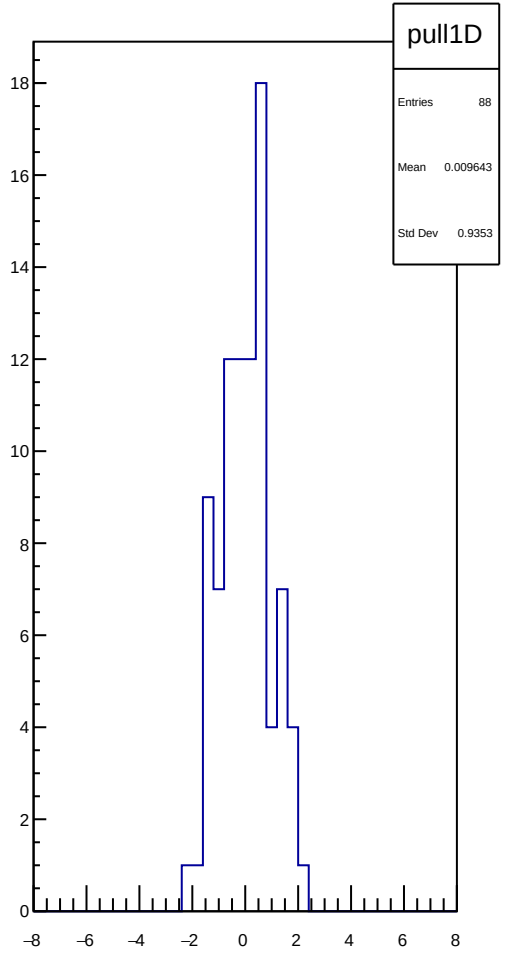

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.268e+05 / 87
p0 33.61 ± 0.02719
70
60
50
40
30
20

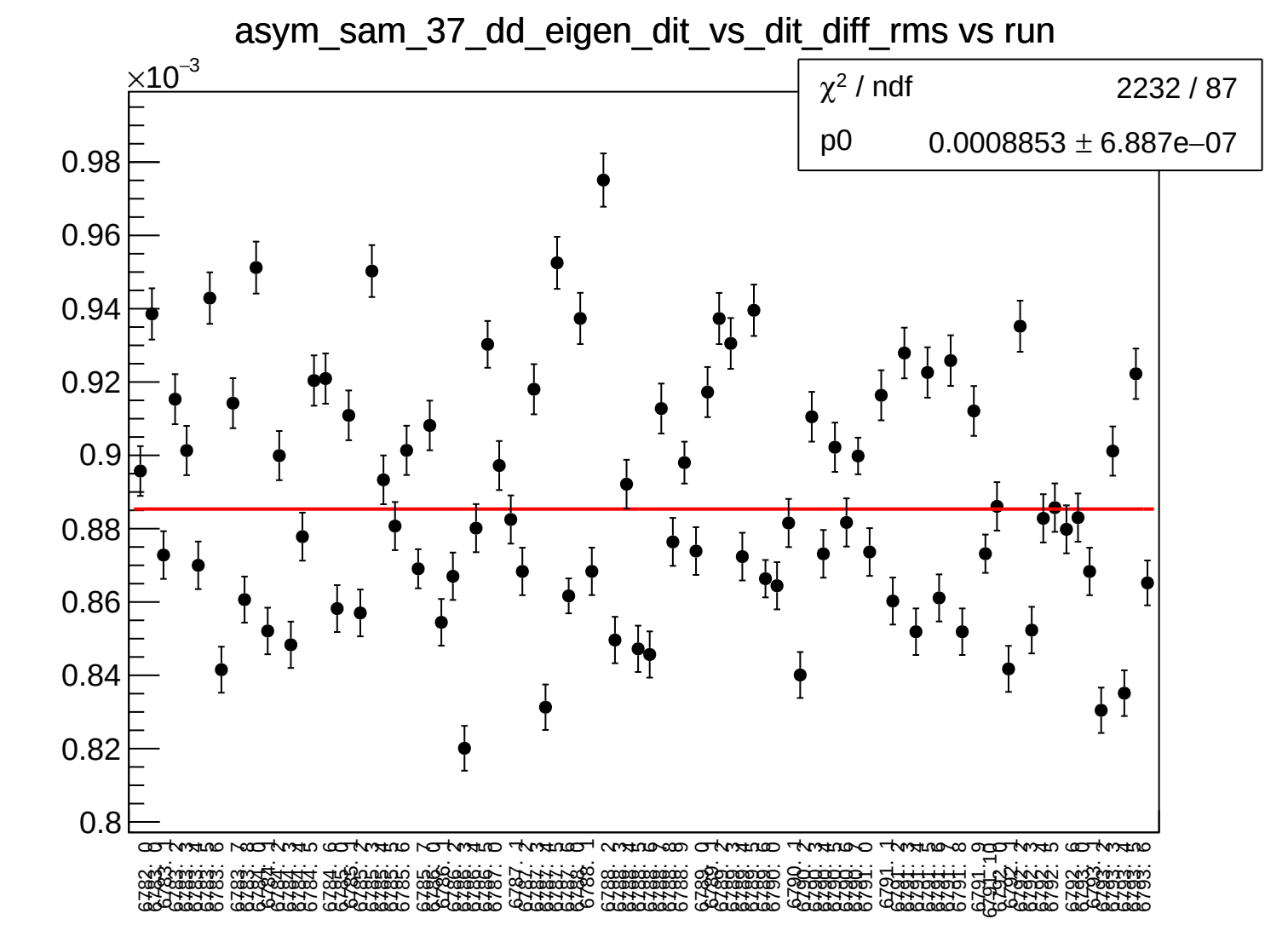

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.48 / 87
p0 0.1303 ± 0.03845
pull
Entries 88
Mean −56.25
Std Dev 0

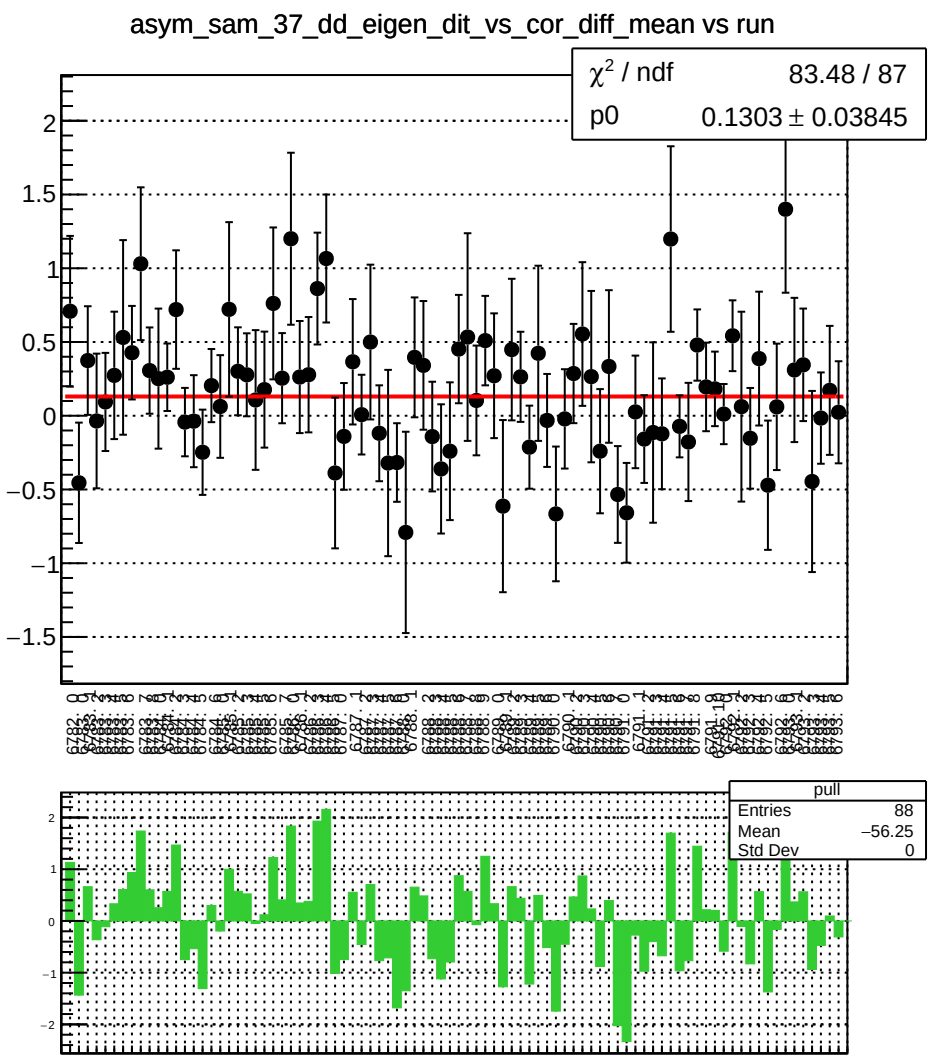

pull1D
Entries 88
Mean 0.04256
Std Dev 0.973

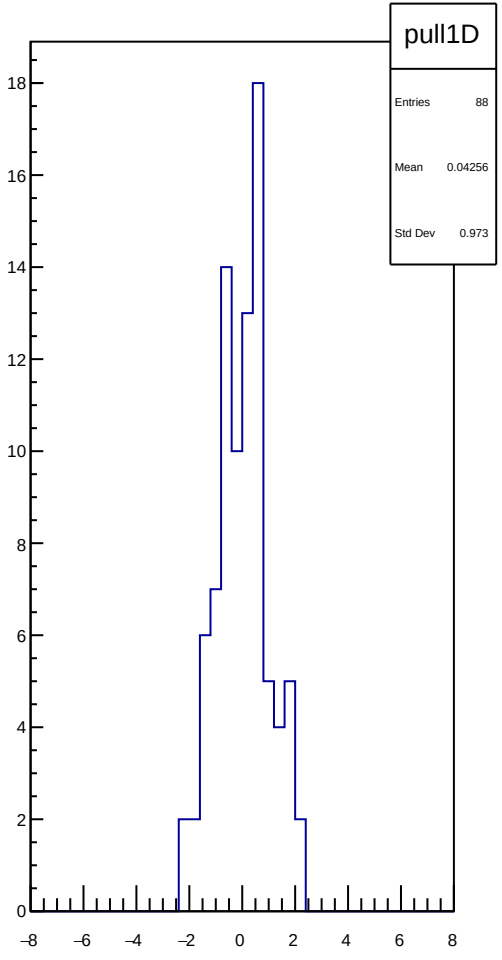

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.268e+05 / 87
p0 33.61 ± 0.02719
70
60
50
40
30
20

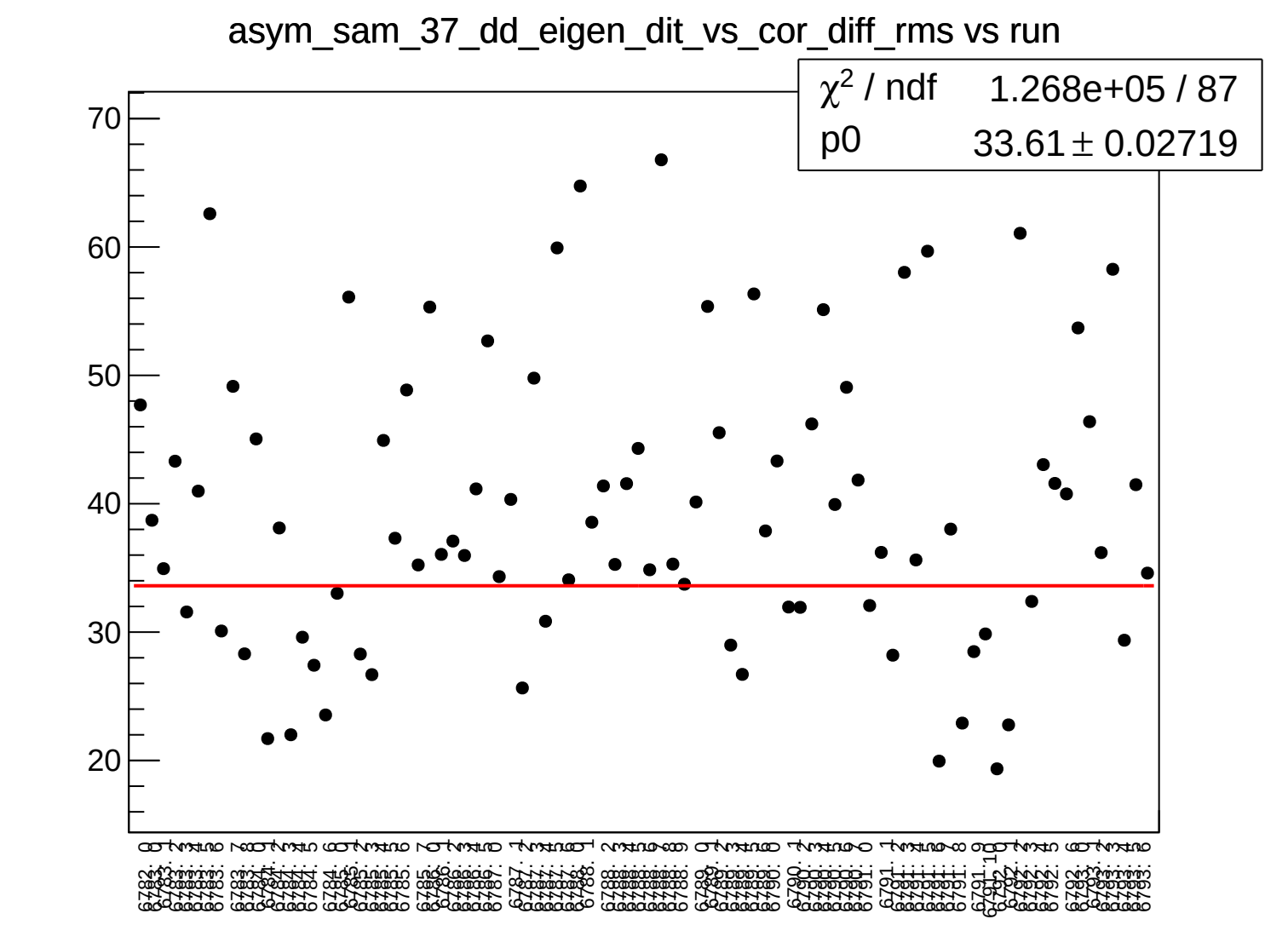

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.98 / 87
p0 2.969e−06 ± 9.74e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −277.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

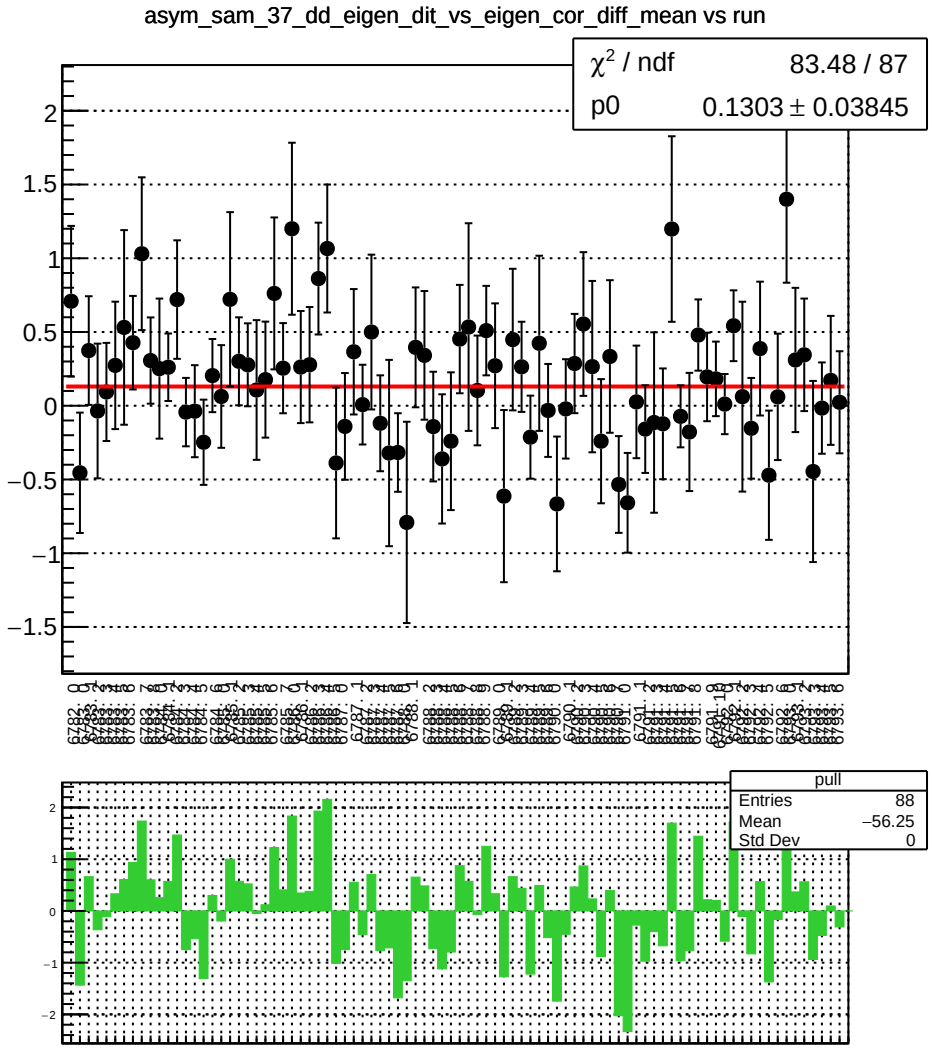

pull1D
Entries 88
Mean 0.009643
Std Dev 0.9353
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

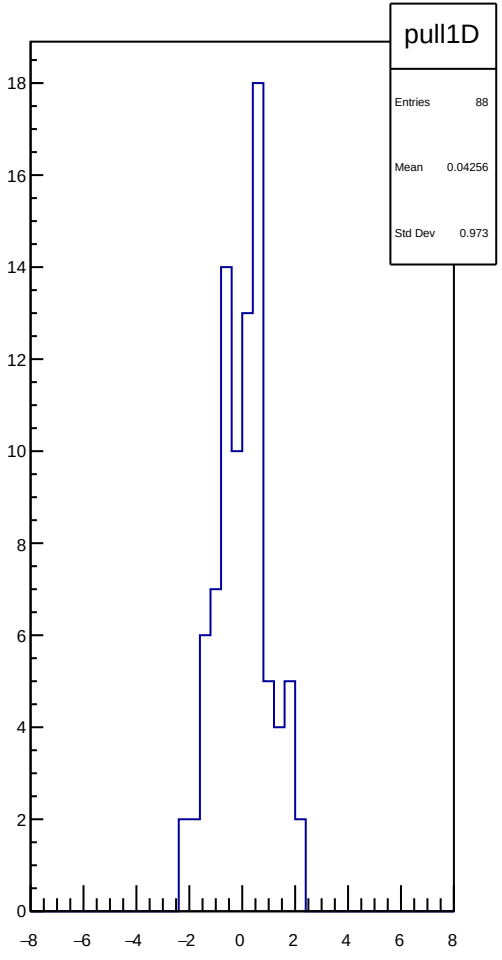

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2232 / 87
p0 0.0008853 ± 6.887e−07
0.98
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8

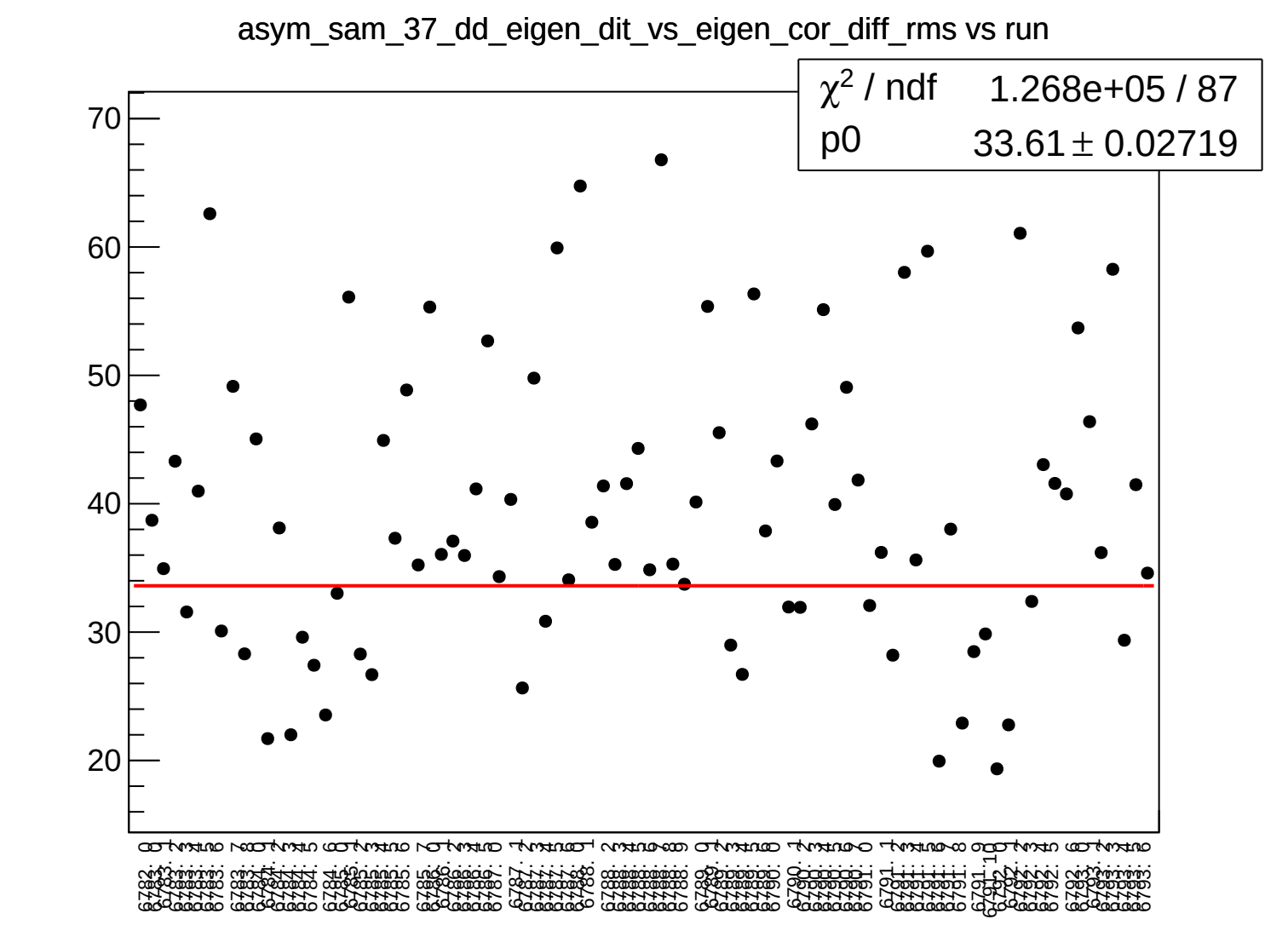

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.48 / 87
p0 0.1303 ± 0.03845
pull
Entries 88
Mean −56.25
Std Dev 0

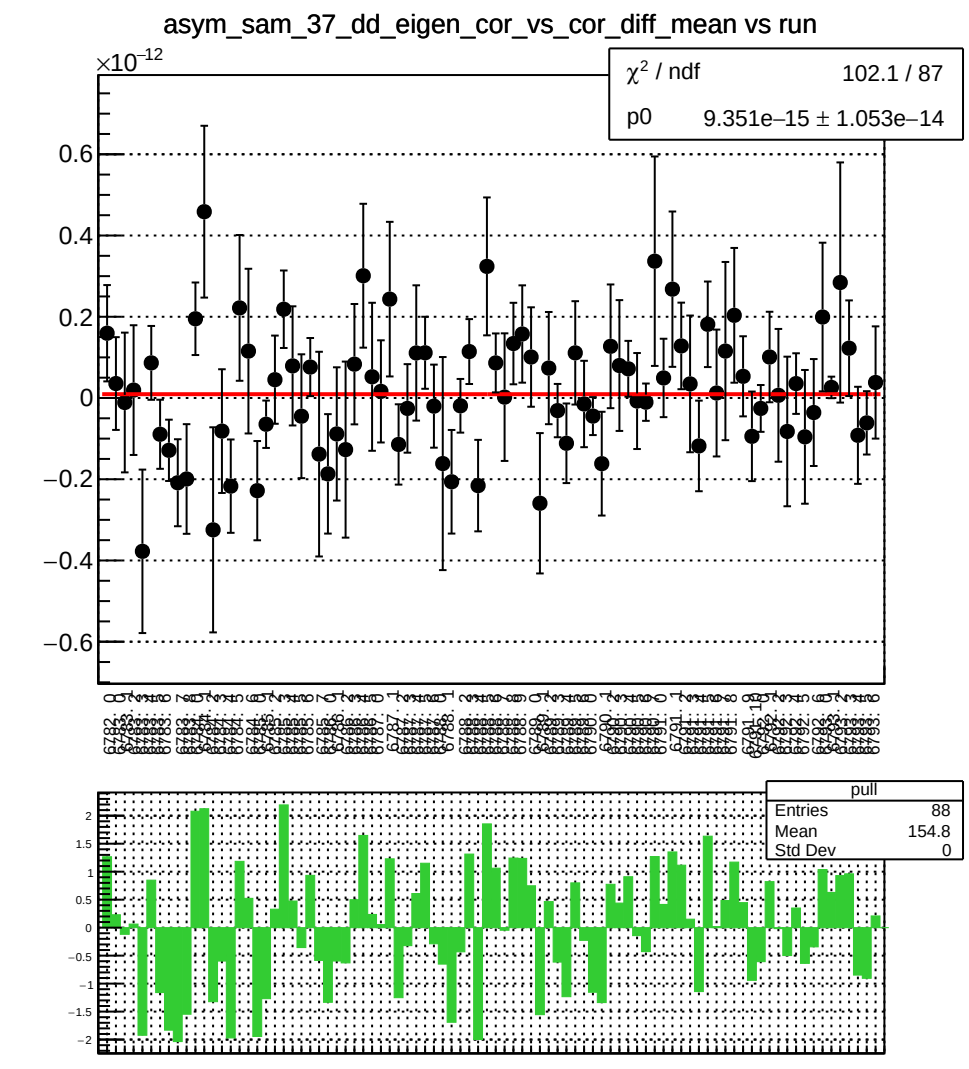

pull1D
Entries 88
Mean 0.04256
Std Dev 0.973

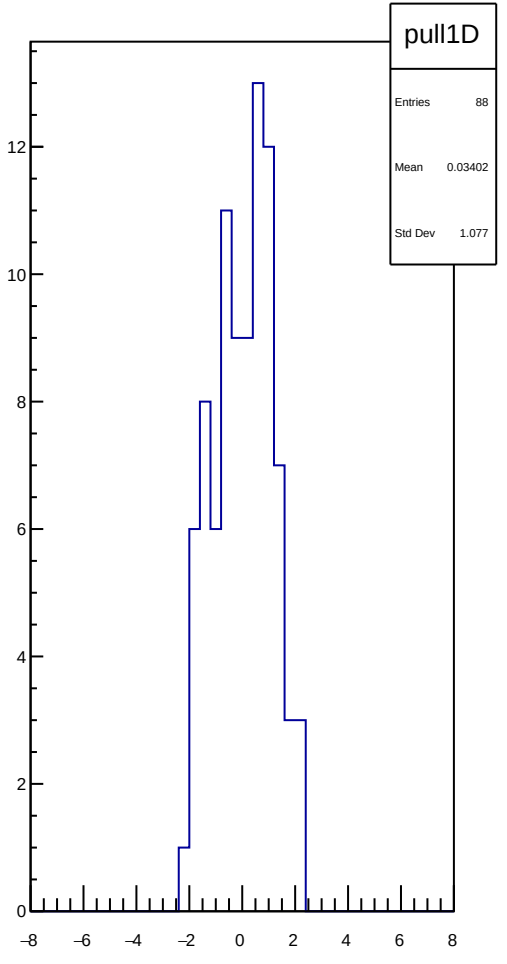

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.268e+05 / 87
p0 33.61 ± 0.02719
70
60
50
40
30
20

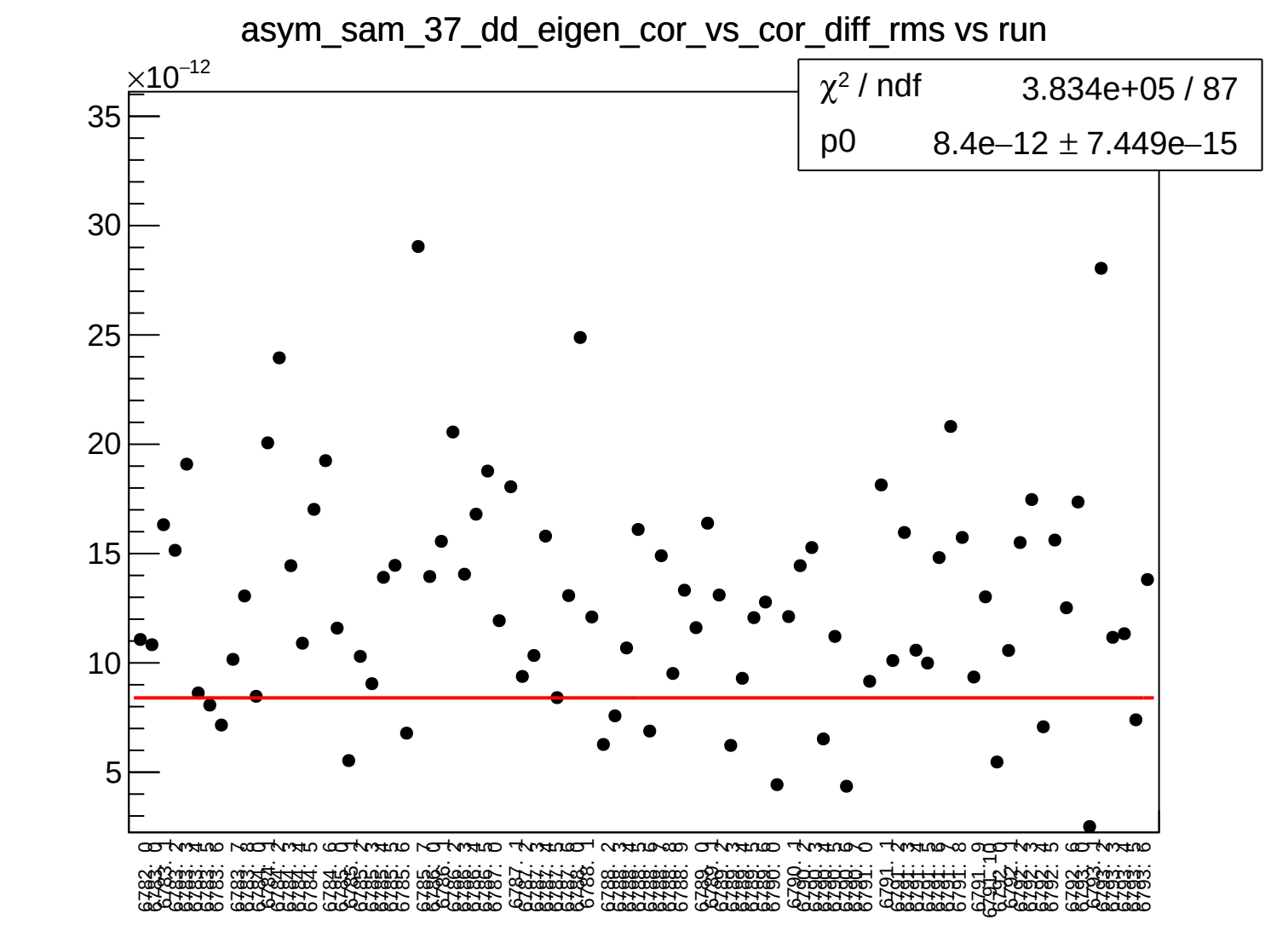

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.48 / 87
p0 0.1303 ± 0.03845
pull
Entries 88
Mean −56.25
Std Dev 0

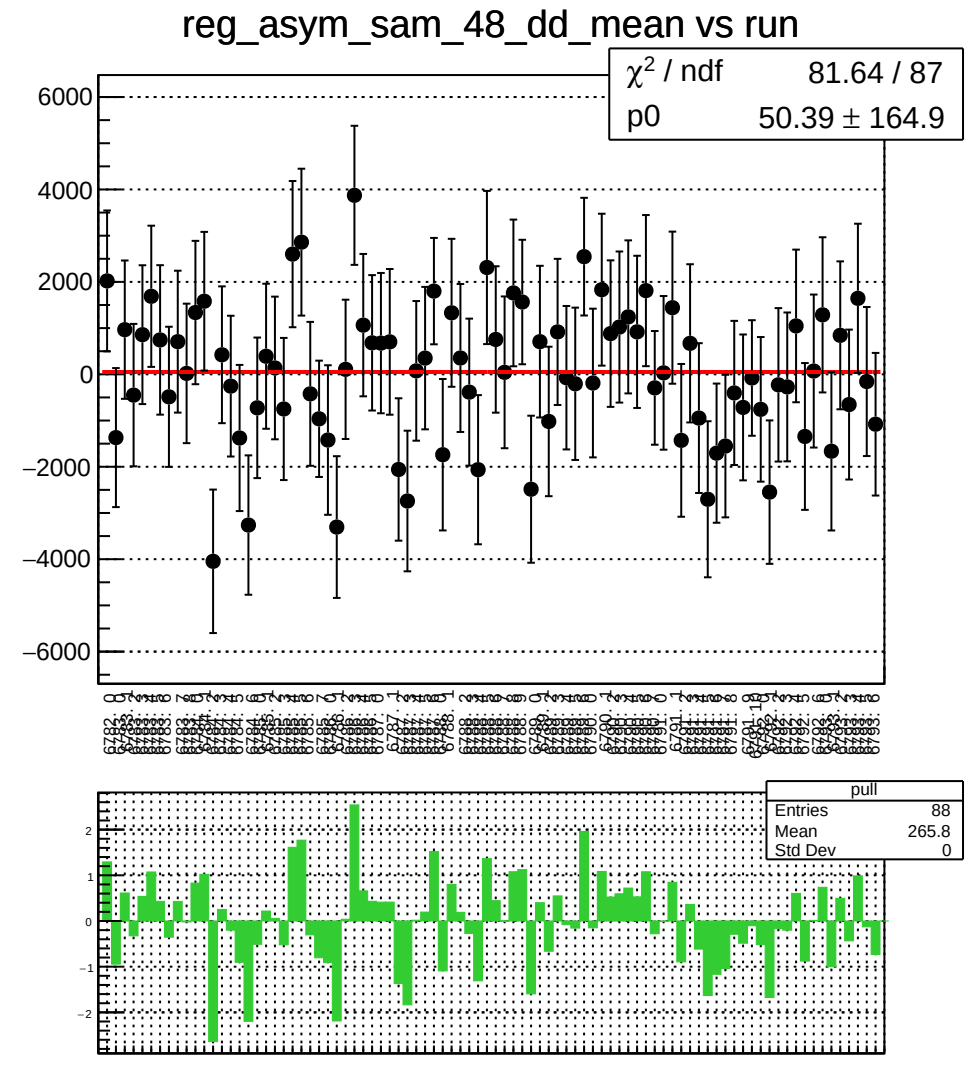

pull1D
Entries 88
Mean 0.04256
Std Dev 0.973

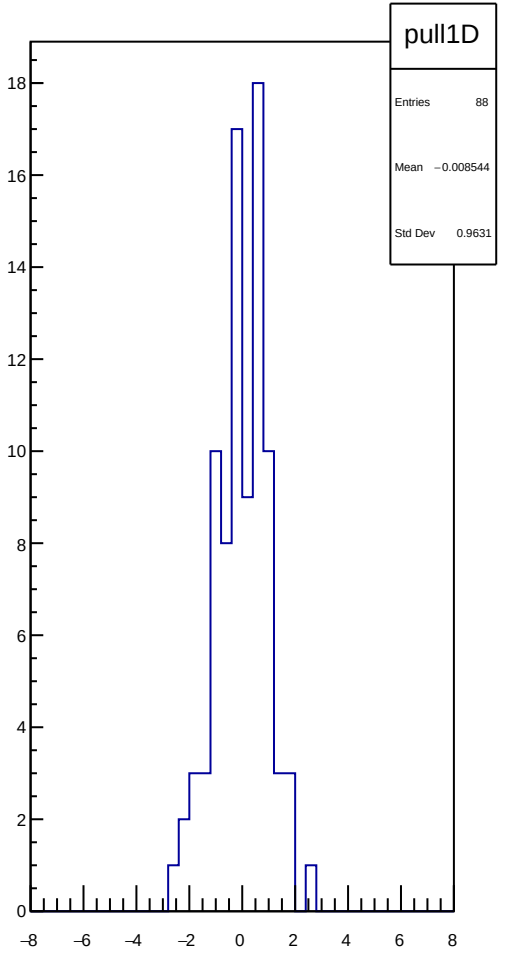

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.268e+05 / 87
p0 33.61 ± 0.02719
70
60
50
40
30
20

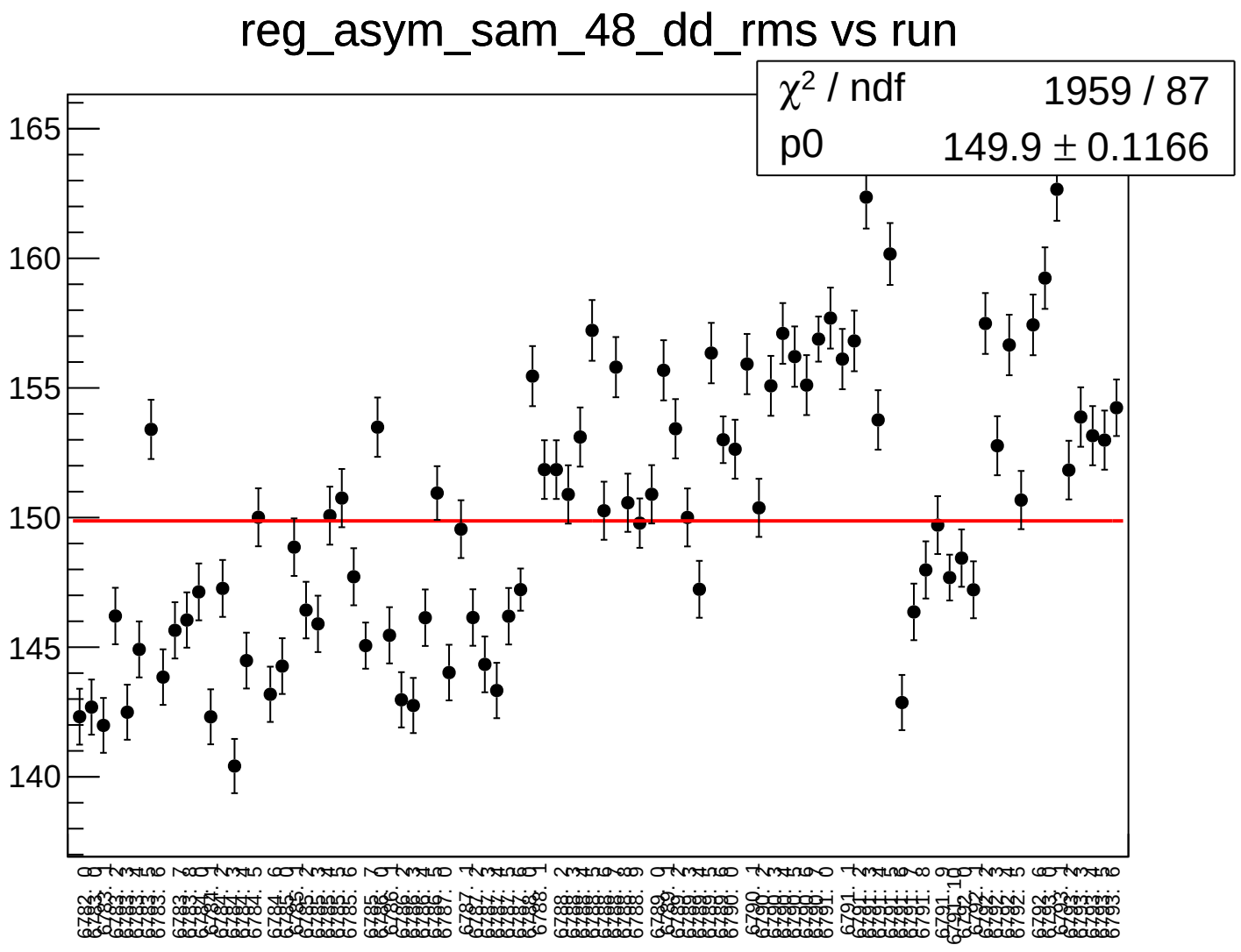

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.1 / 87
p0 9.351e−15 ± 1.053e−14
pull
Entries 88
Mean 154.8
Std Dev 0

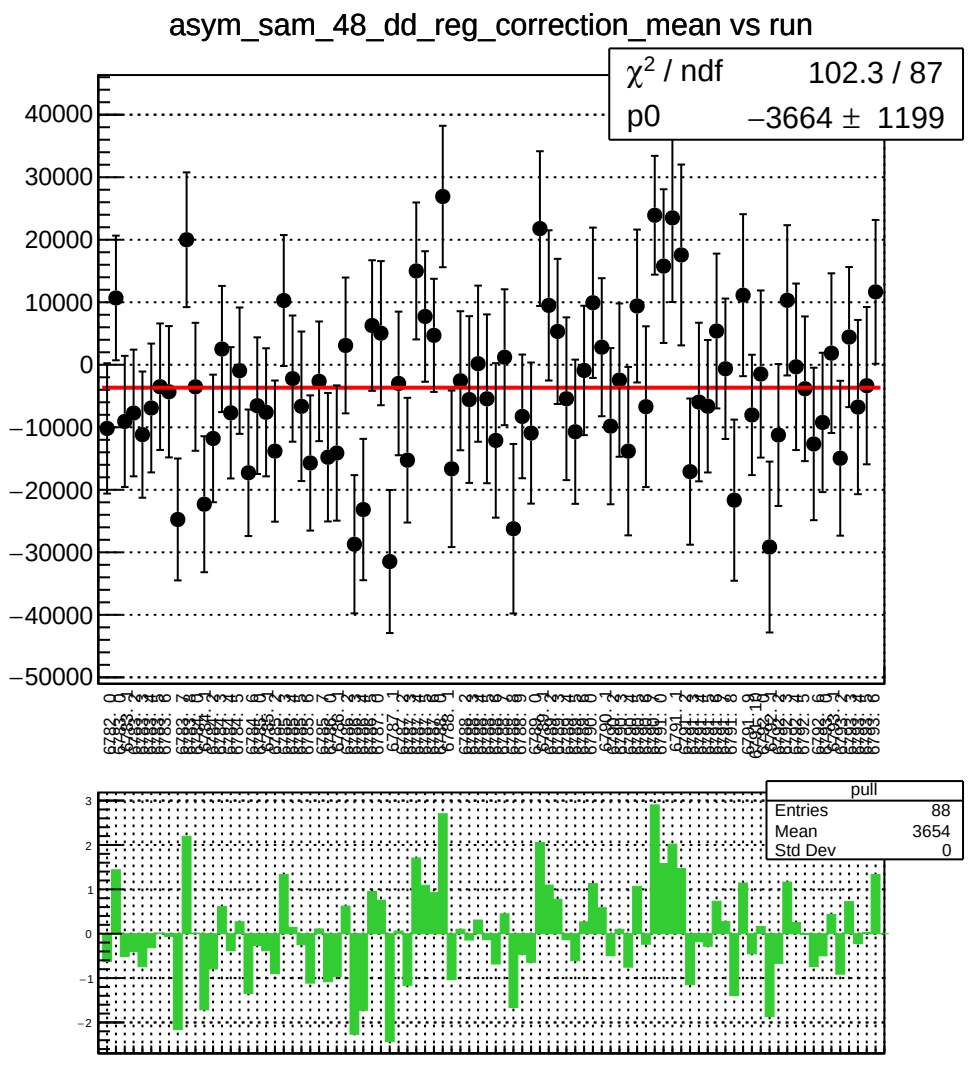

pull1D
Entries 88
Mean 0.03402
Std Dev 1.077

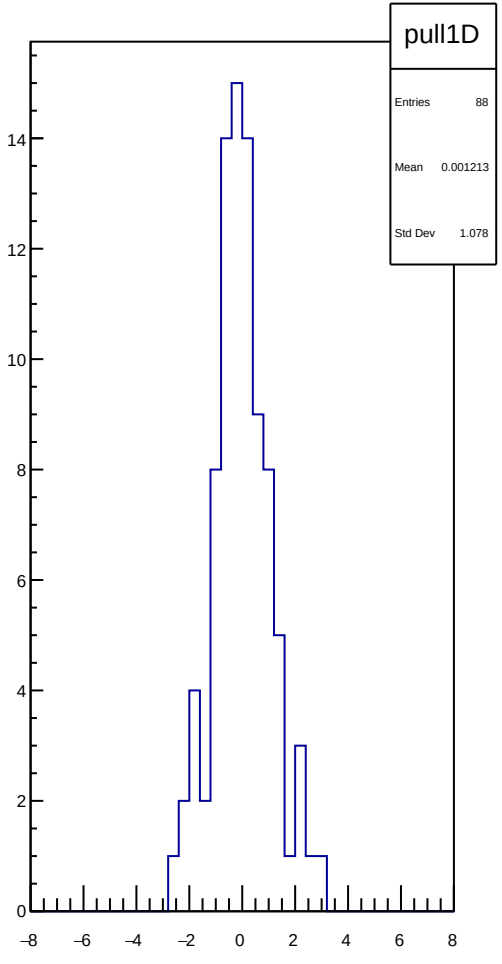

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.834e+05 / 87
p0 8.4e−12 ± 7.449e−15
35
30
25
20
15
10
5

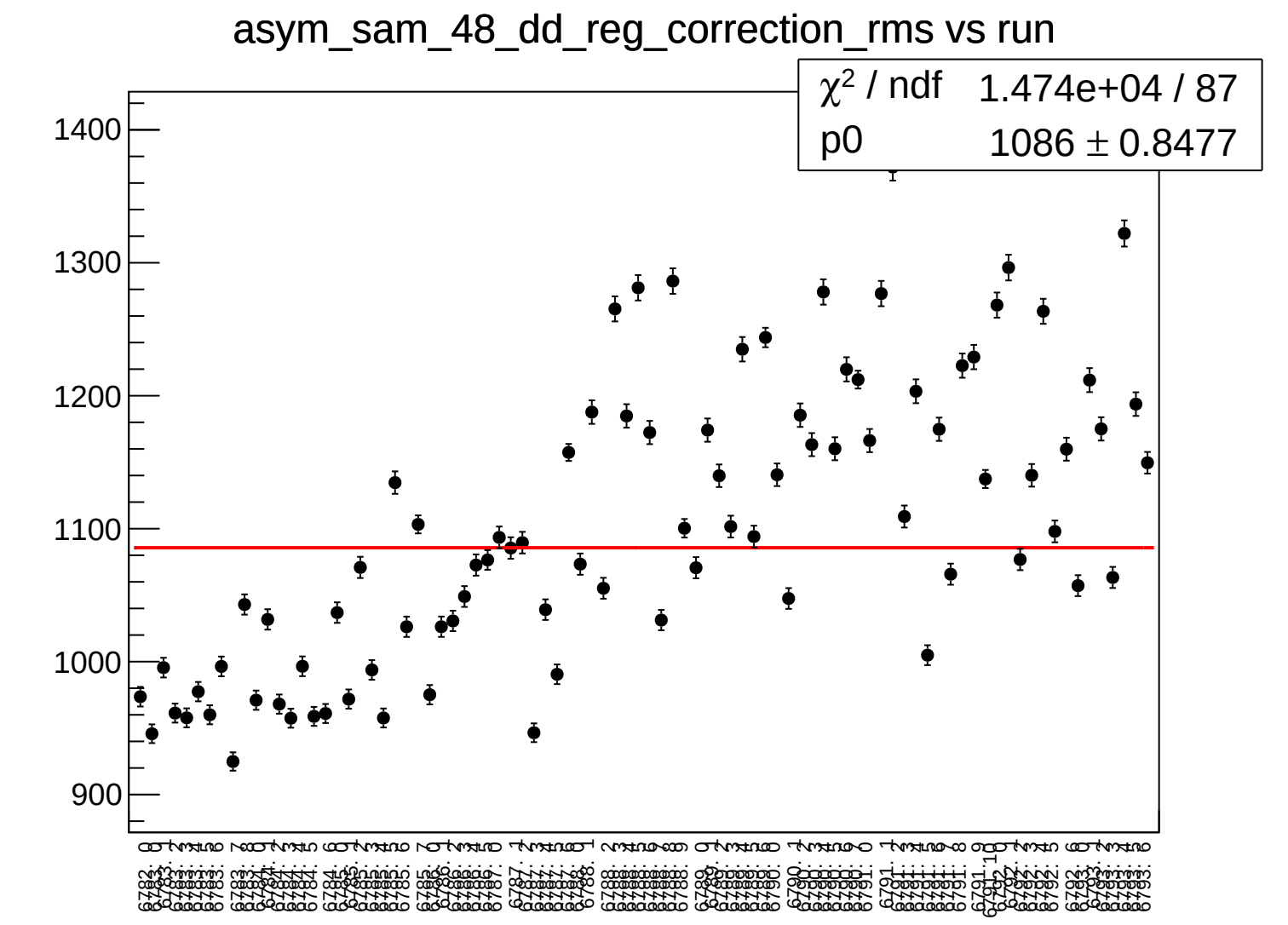

reg_asym_sam_48_dd_mean vs run
χ² / ndf 81.64 / 87
p0 50.39 ± 164.9
pull
Entries 88
Mean 265.8
Std Dev 0

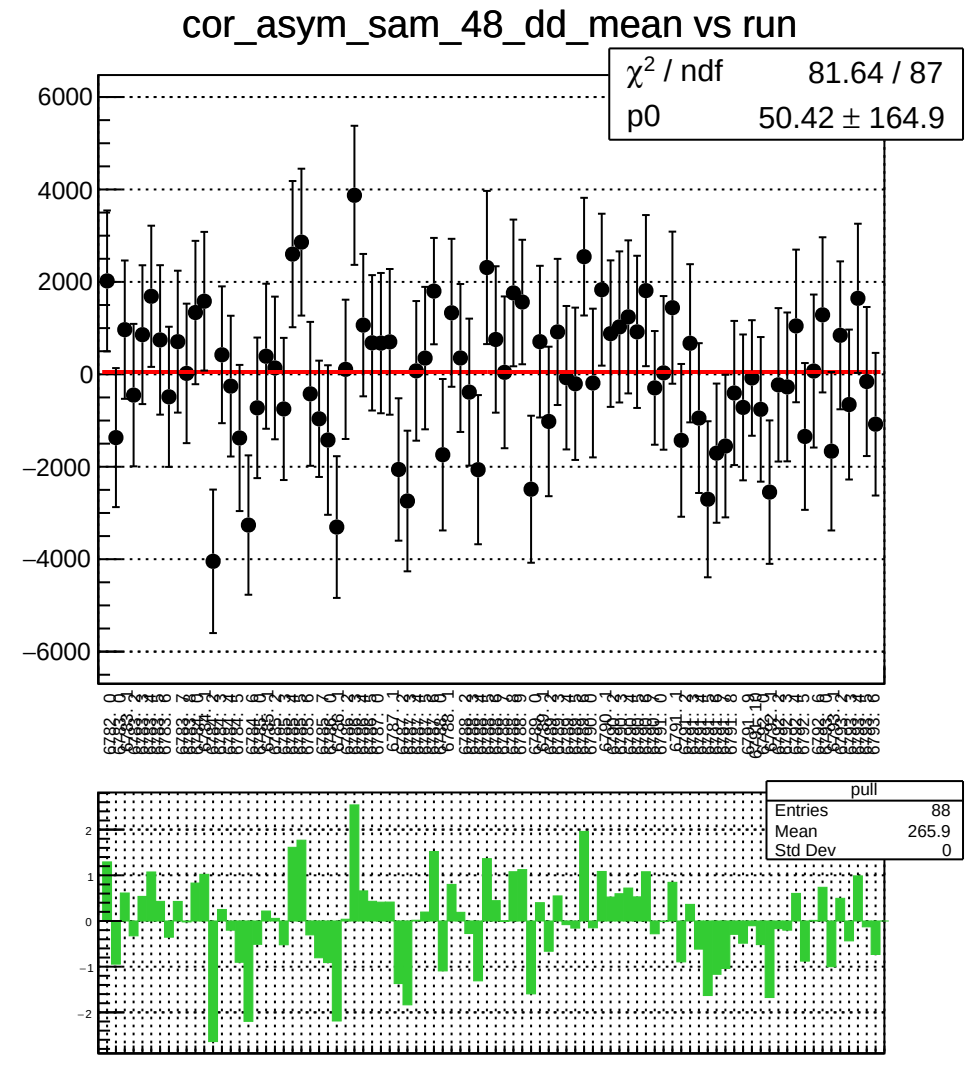

pull1D
Entries 88
Mean −0.008544
Std Dev 0.9631

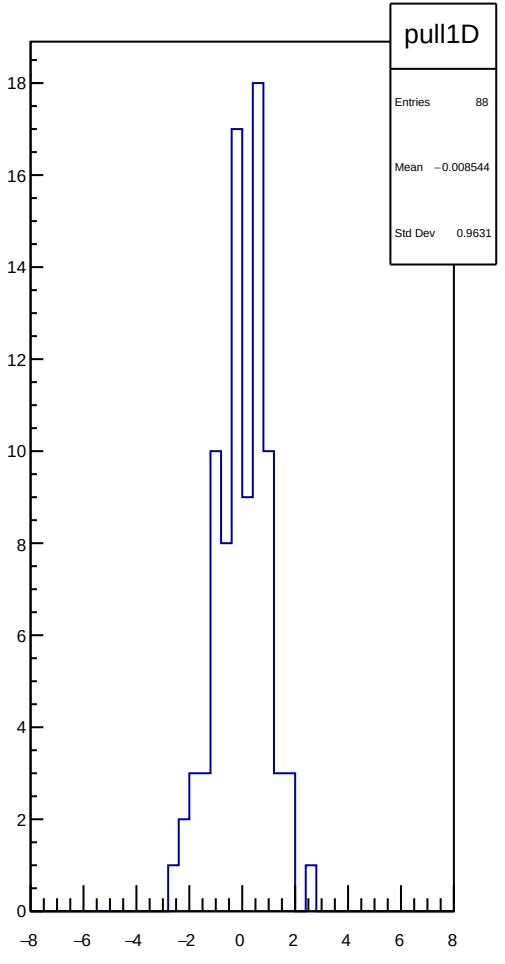

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1959 / 87
p0 149.9 ± 0.1166
165
160
155
150
145
140

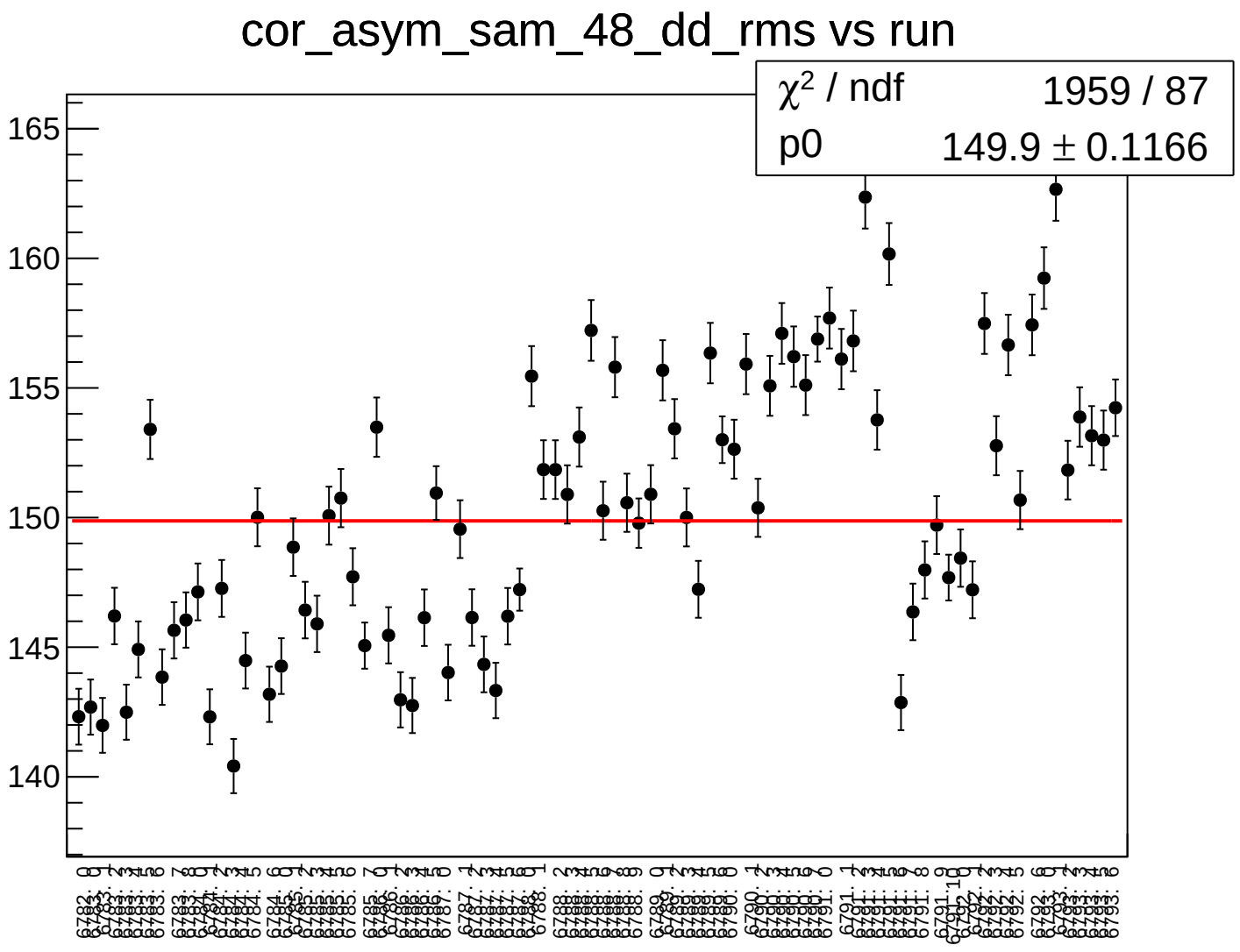

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 102.3 / 87
p0 −3664 ± 1199
pull
Entries 88
Mean 3654
Std Dev 0

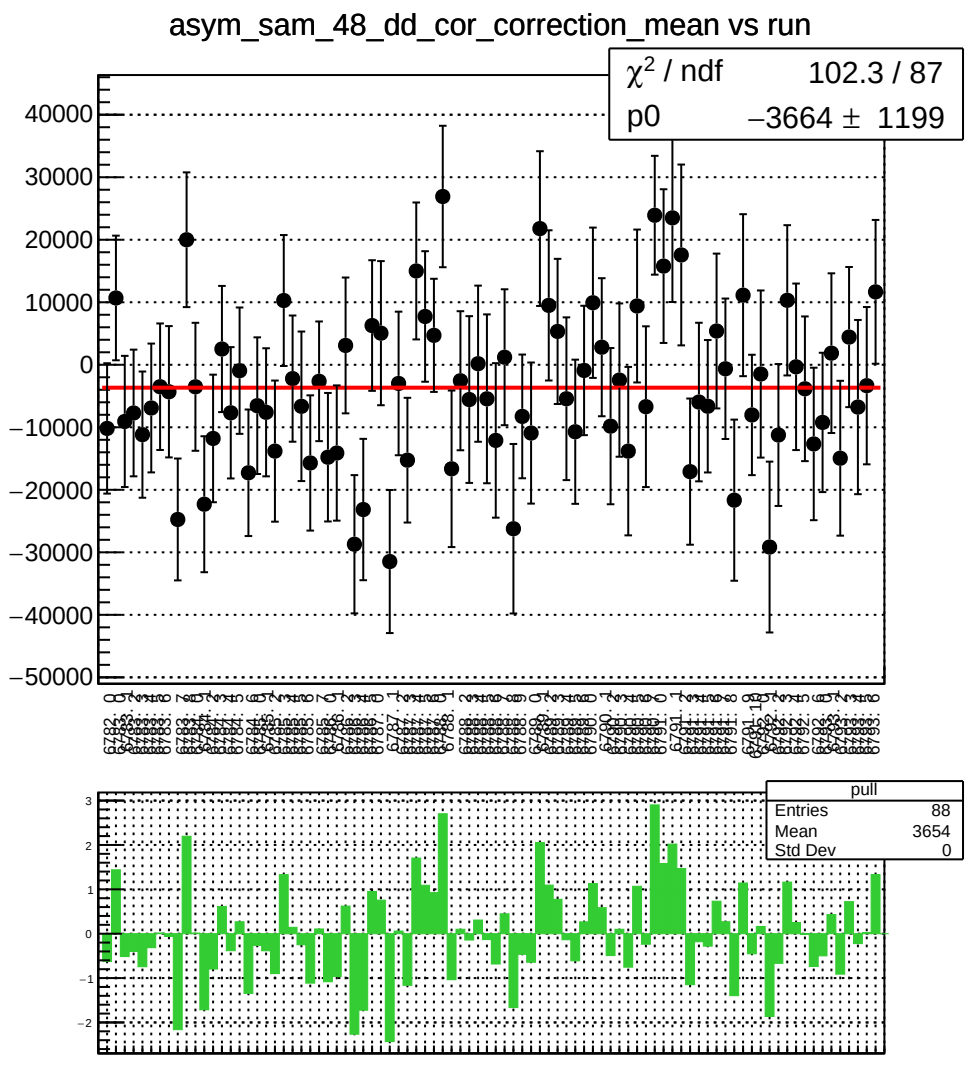

pull1D
Entries 88
Mean 0.001213
Std Dev 1.078

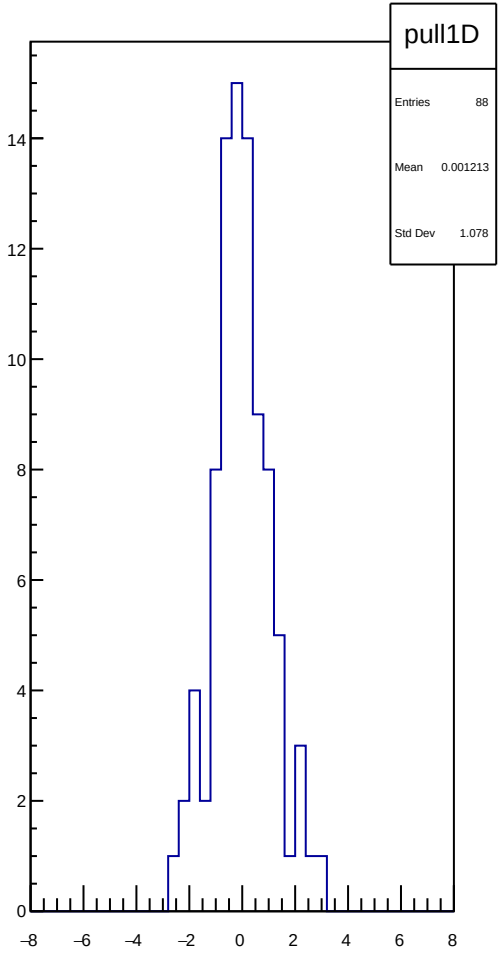

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.474e+04 / 87
p0 1086 ± 0.8477
1400
1300
1200
1100
1000
900

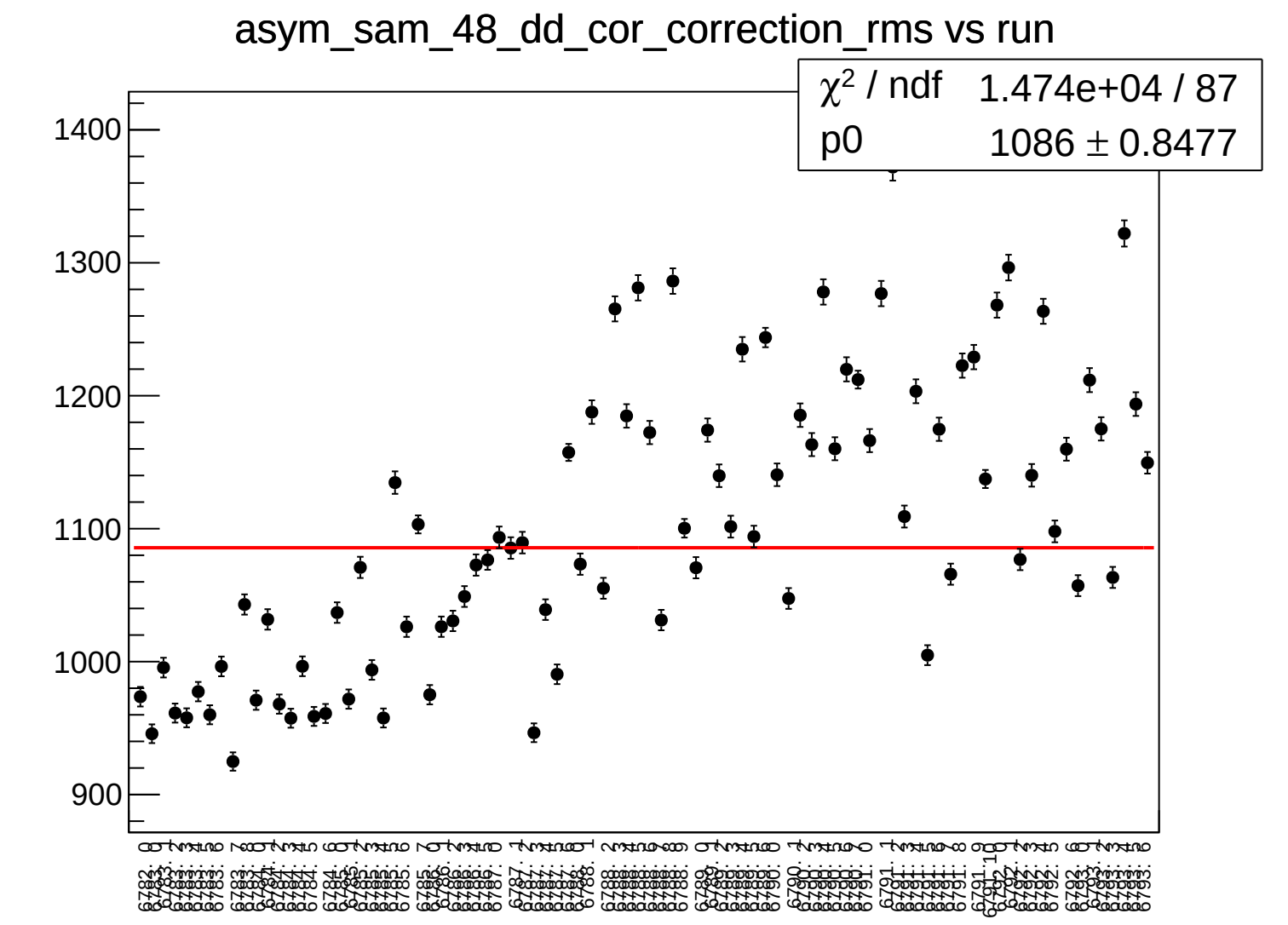

cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.64 / 87
p0 50.42 ± 164.9
pull
Entries 88
Mean 265.9
Std Dev 0

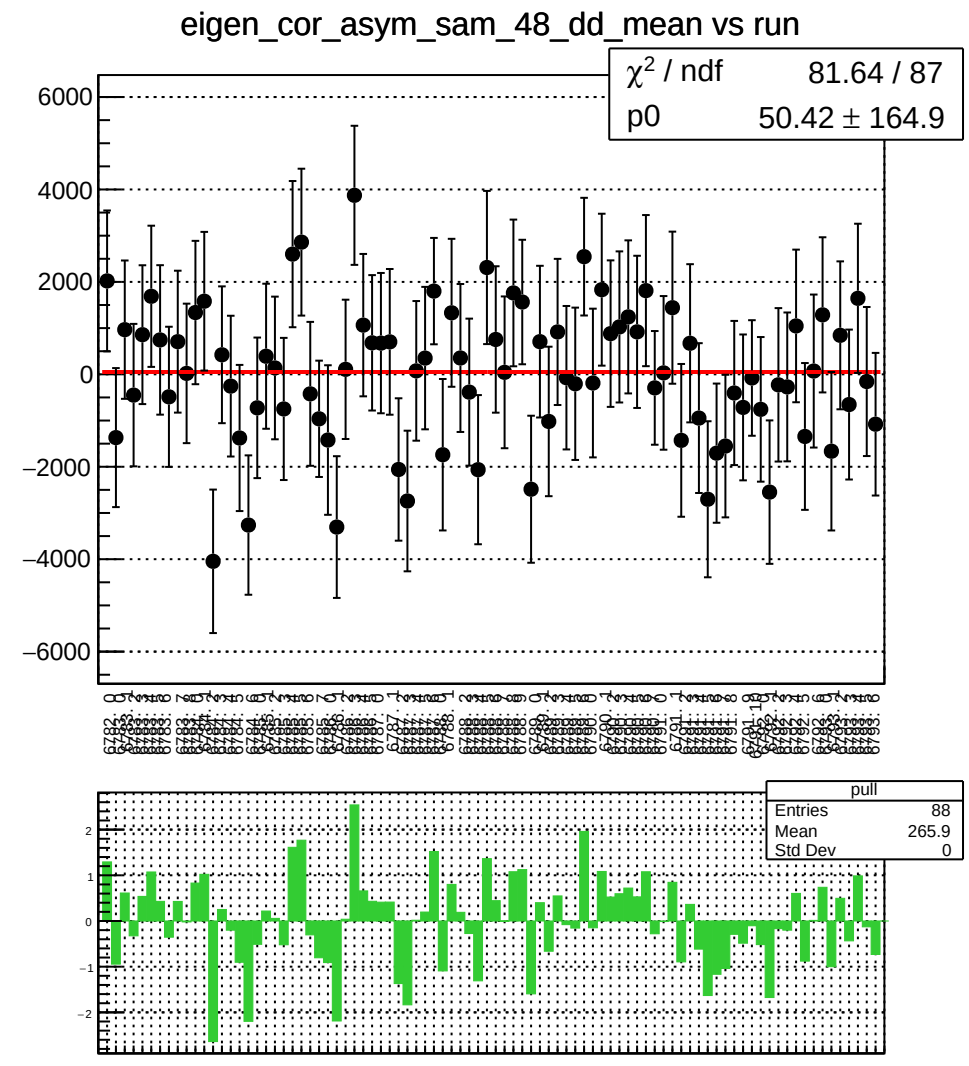

pull1D
Entries 88
Mean −0.008544
Std Dev 0.9631

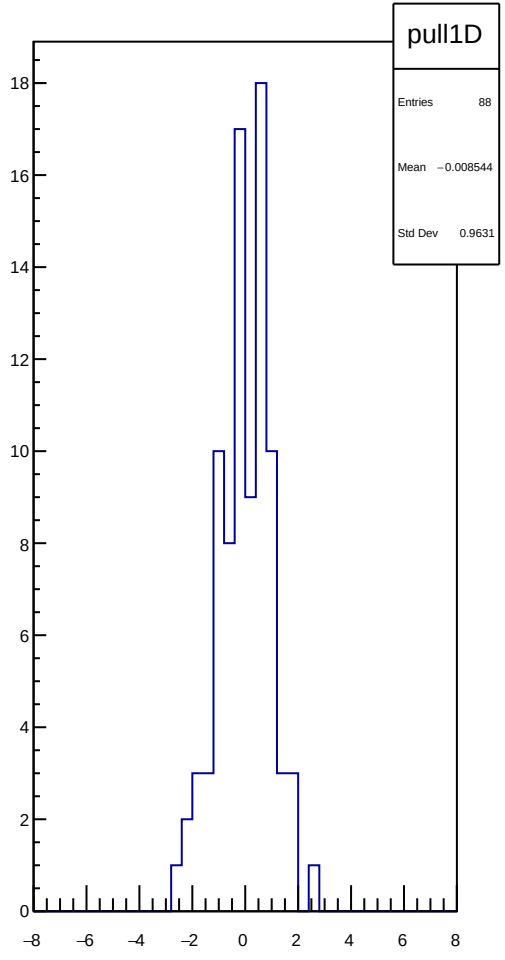

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1959 / 87
p0 149.9 ± 0.1166
165
160
155
150
145
140

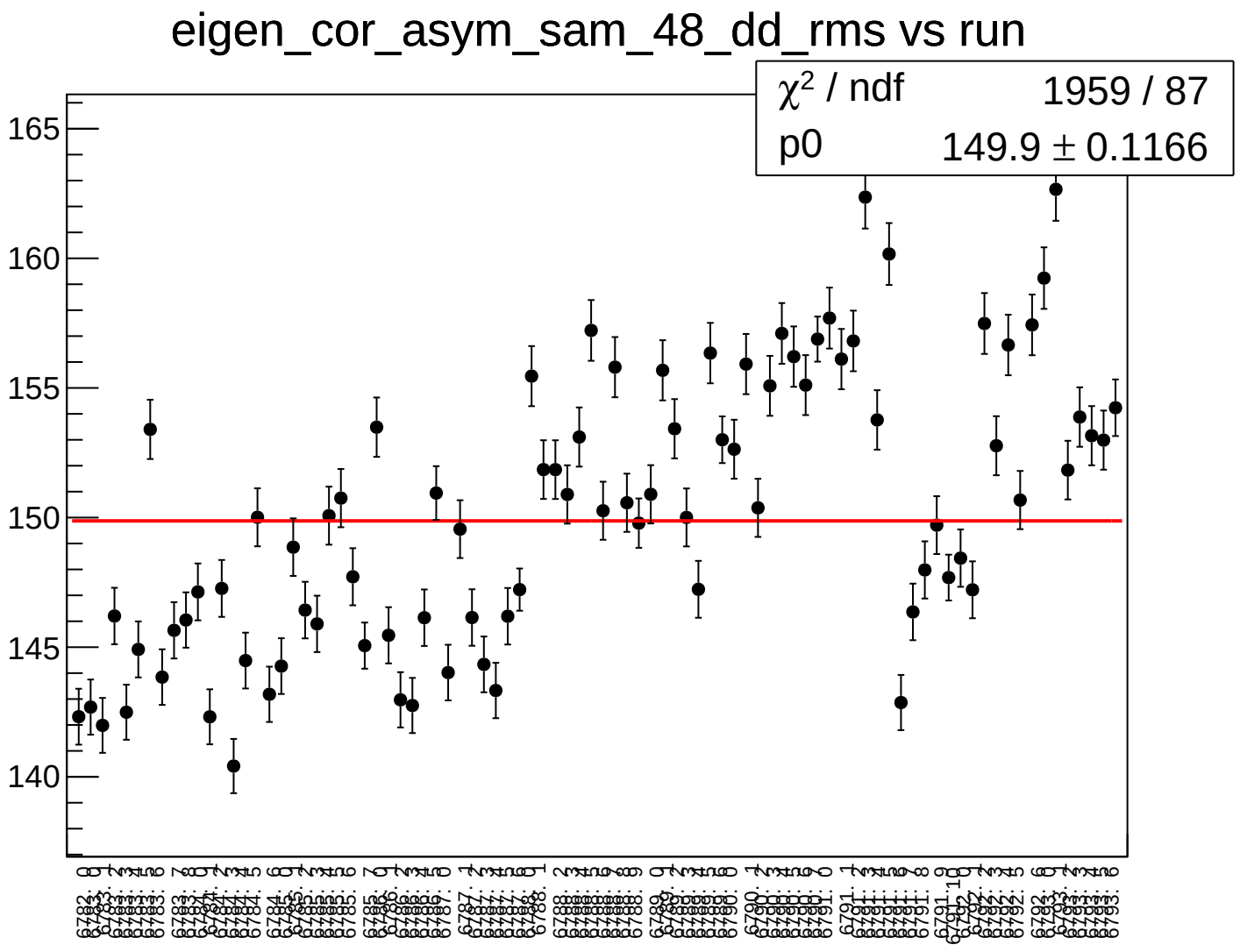

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 102.3 / 87
p0 −3664 ± 1199
pull
Entries 88
Mean 3654
Std Dev 0

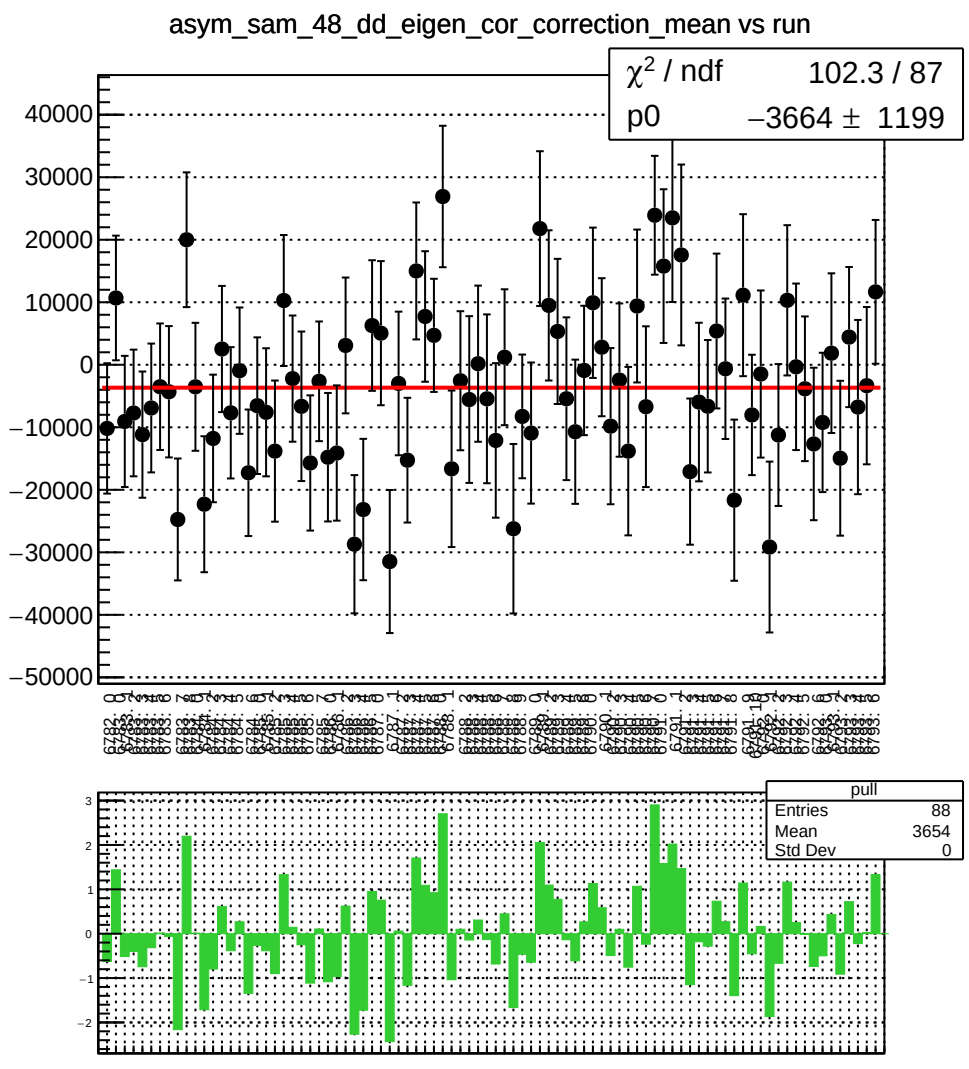

pull1D
Entries 88
Mean 0.001213
Std Dev 1.078

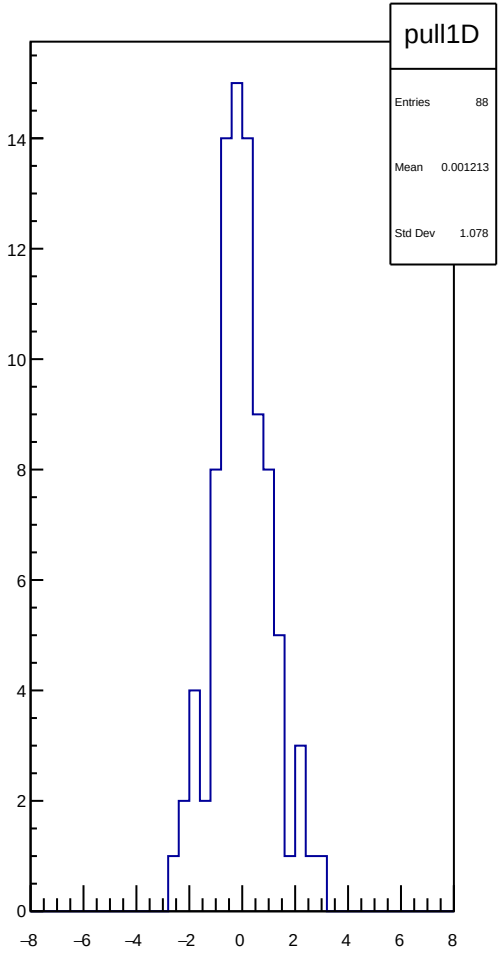

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 87
p0 1086 ± 0.8477
1400
1300
1200
1100
1000
900

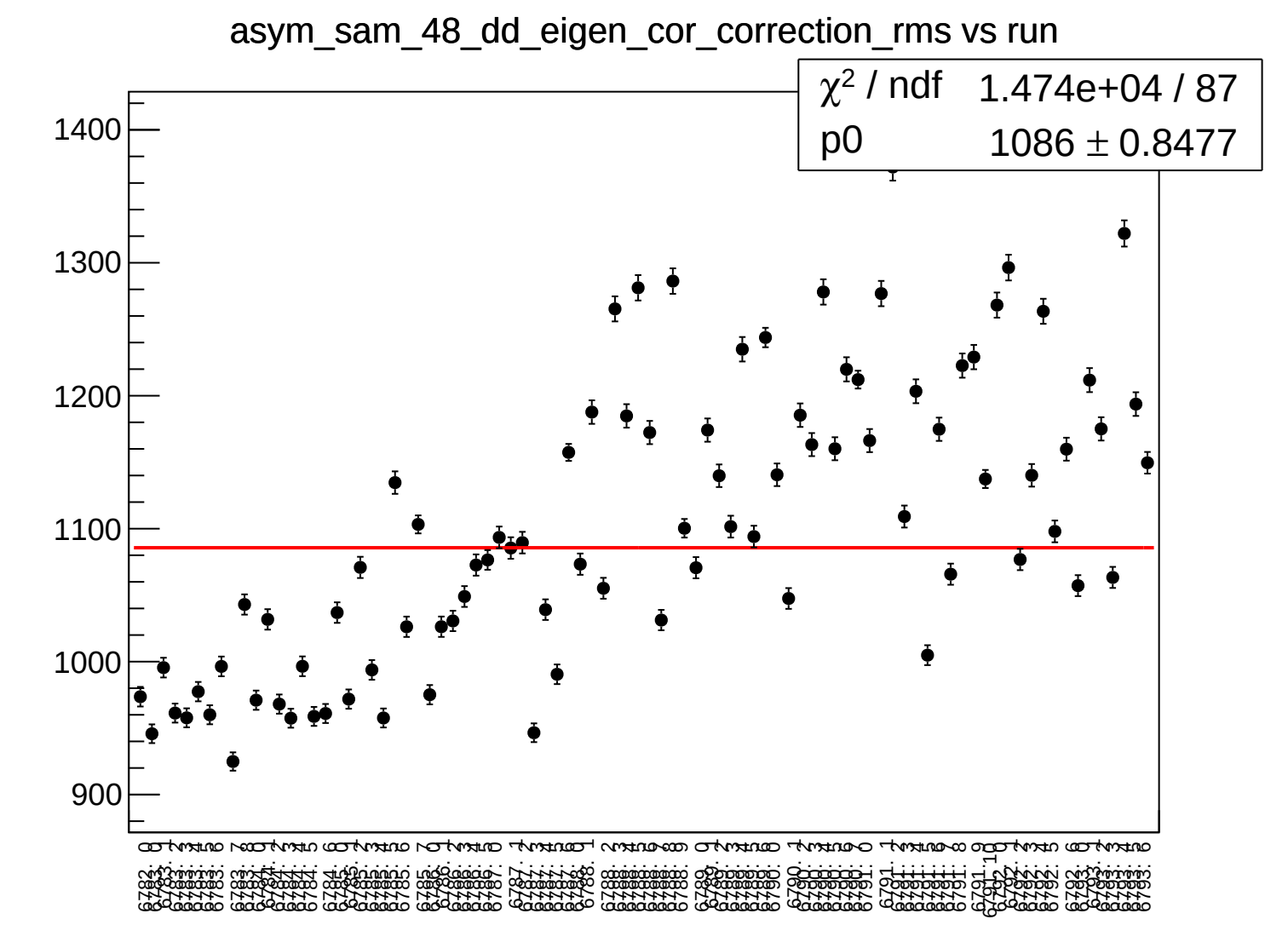

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.64 / 87
p0 50.42 ± 164.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 265.9
Std Dev 0
2
1
0
−1
−2

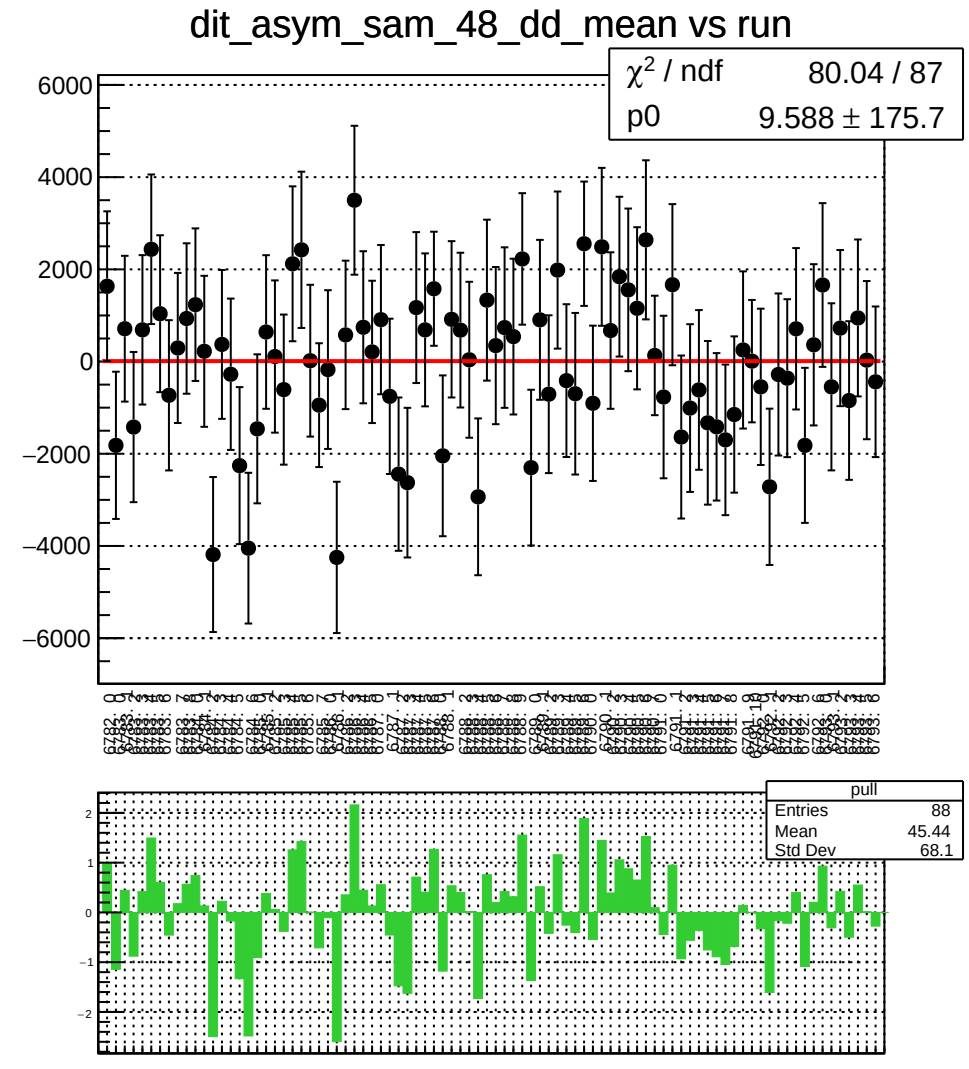

pull1D
Entries 88
Mean −0.008544
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

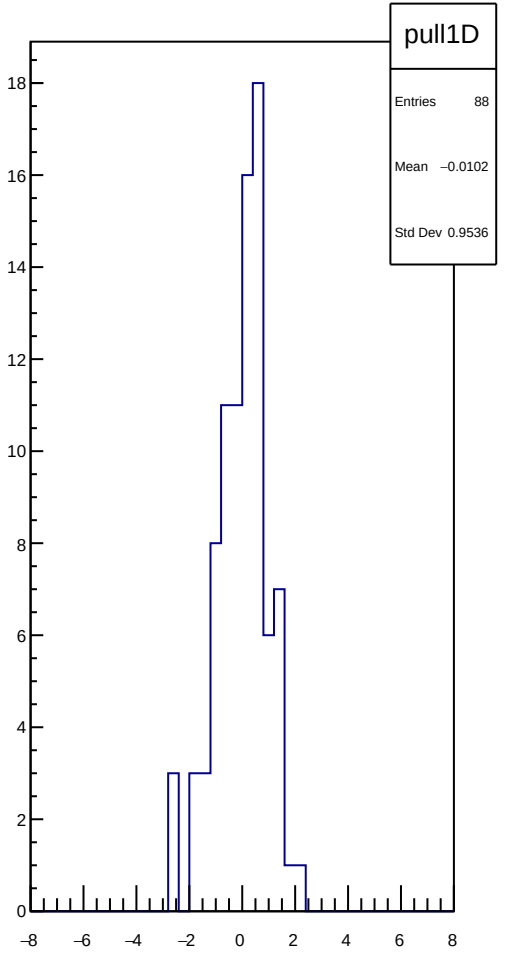

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1959 / 87
p0 149.9 ± 0.1166
165
160
155
150
145
140

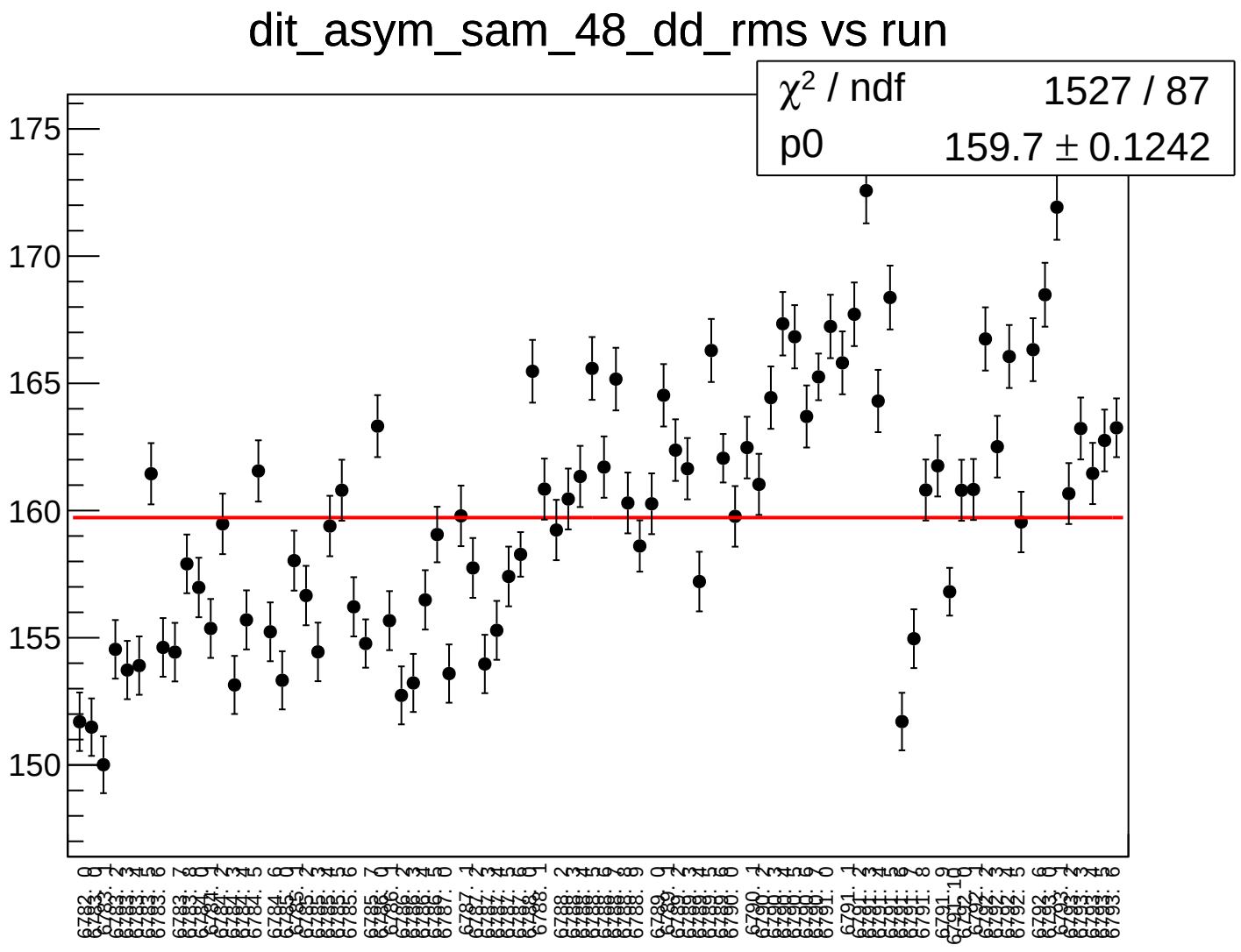

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.3 / 87
p0 −3664 ± 1199
pull
Entries 88
Mean 3654
Std Dev 0

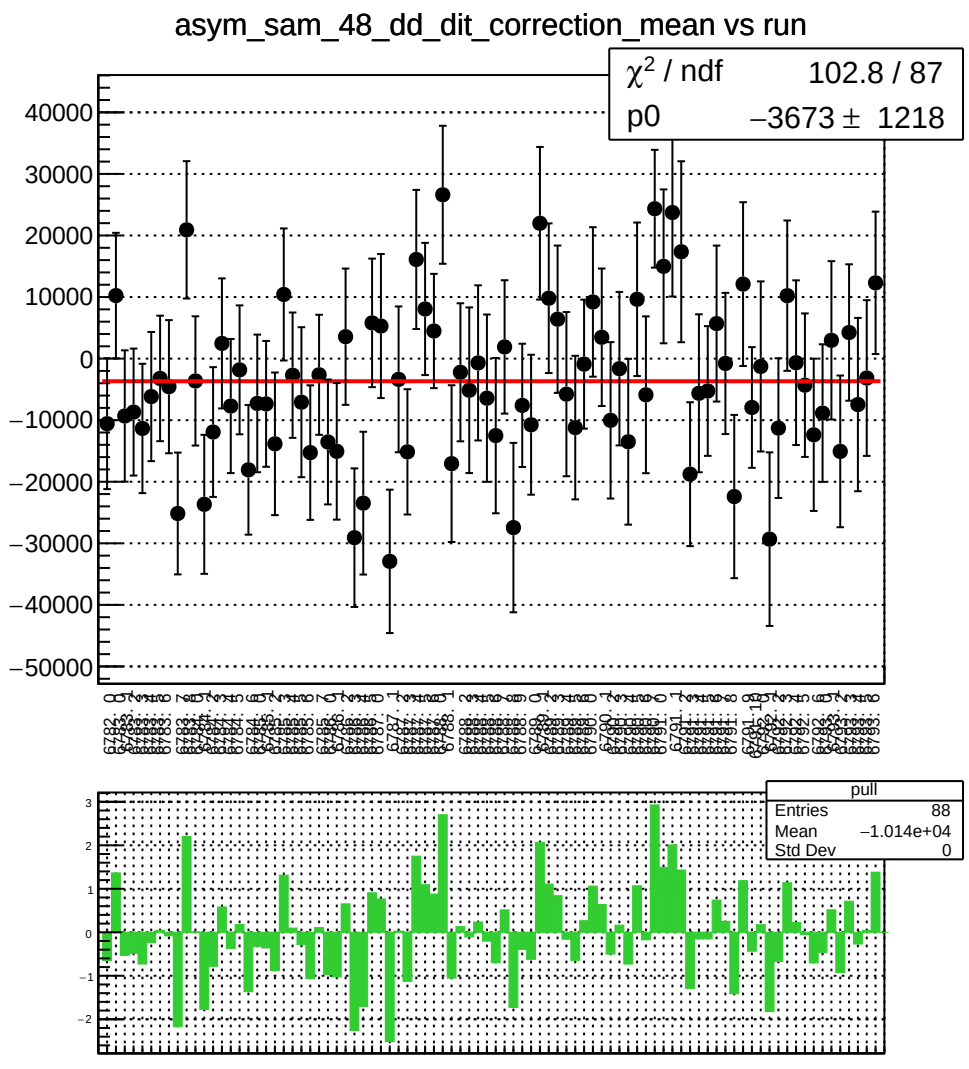

pull1D
Entries 88
Mean 0.001213
Std Dev 1.078

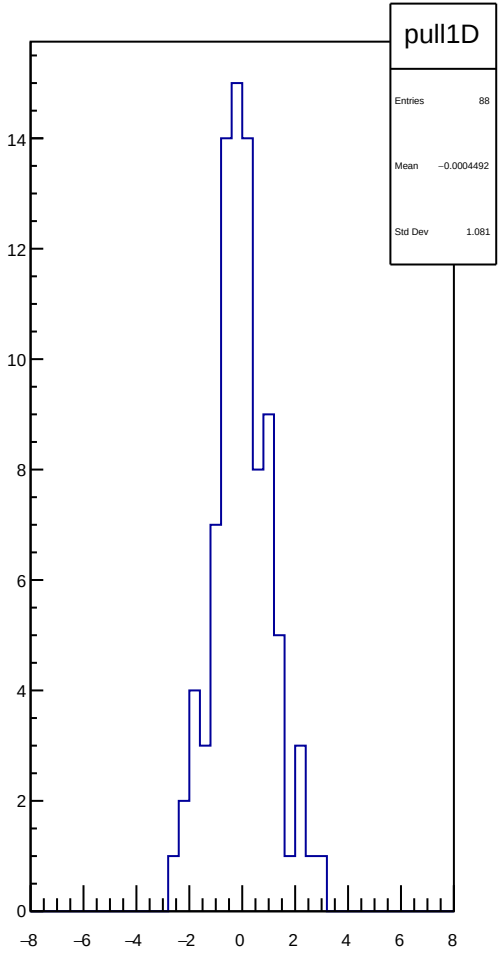

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 87
p0 1086 ± 0.8477
1400
1300
1200
1100
1000
900

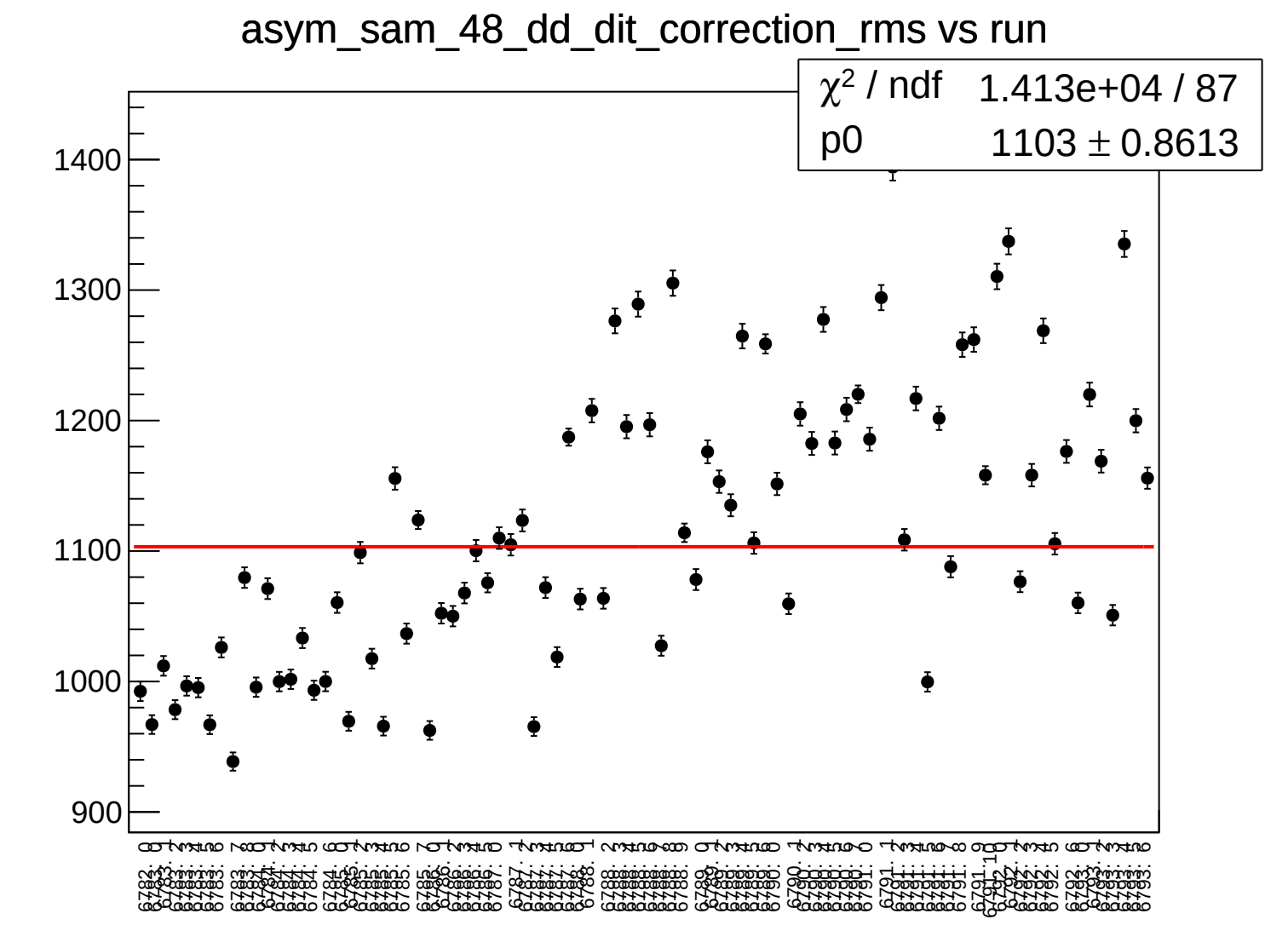

dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 80.04 / 87
p0 9.588 ± 175.7
pull
Entries 88
Mean 45.44
Std Dev 68.1

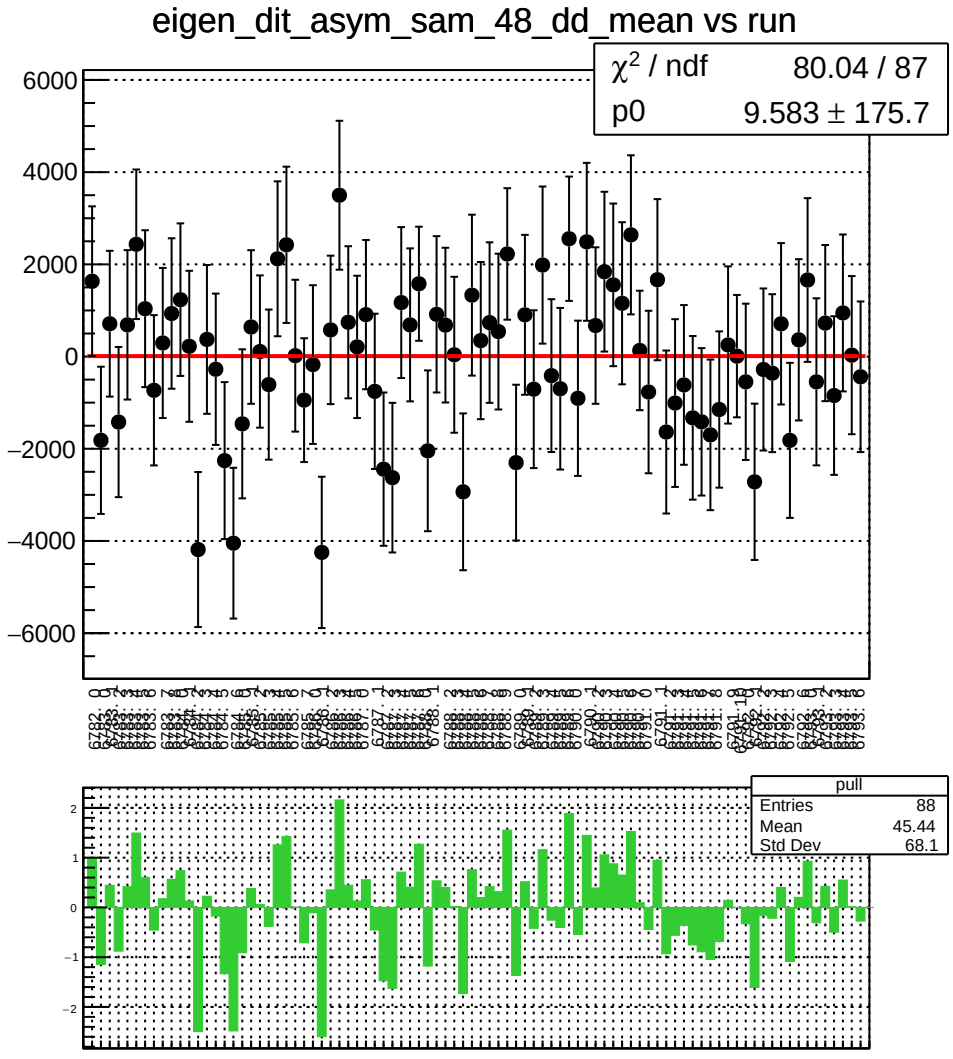

pull1D
Entries 88
Mean −0.0102
Std Dev 0.9536

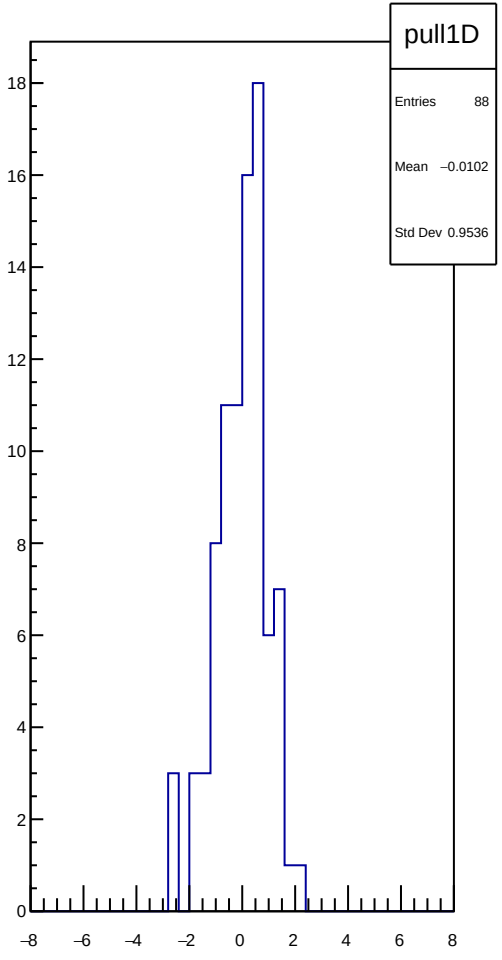

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1527 / 87
p0 159.7 ± 0.1242
175
170
165
160
155
150

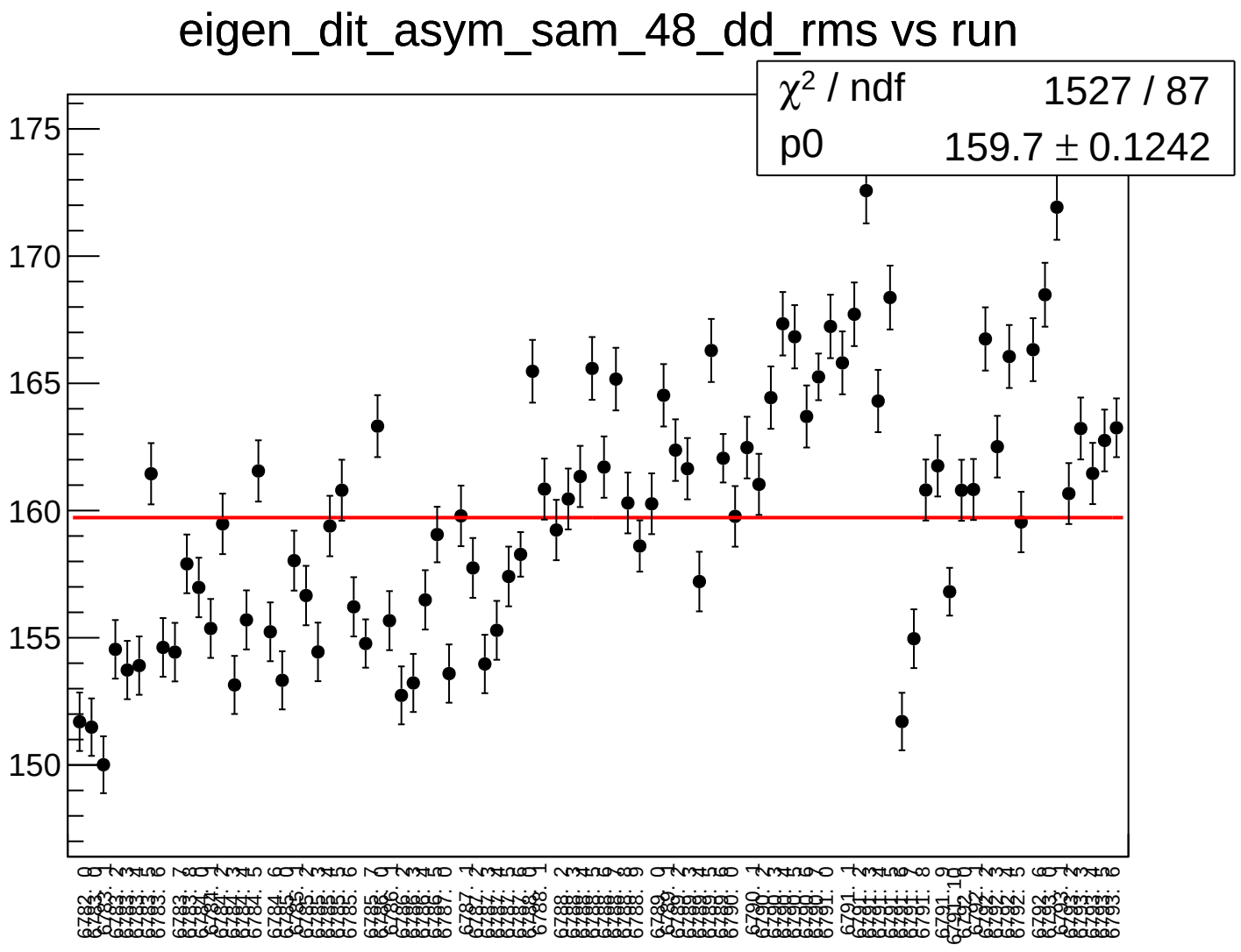

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 102.8 / 87
p0 −3673 ± 1218
pull
Entries 88
Mean −1.014e+04
Std Dev 0

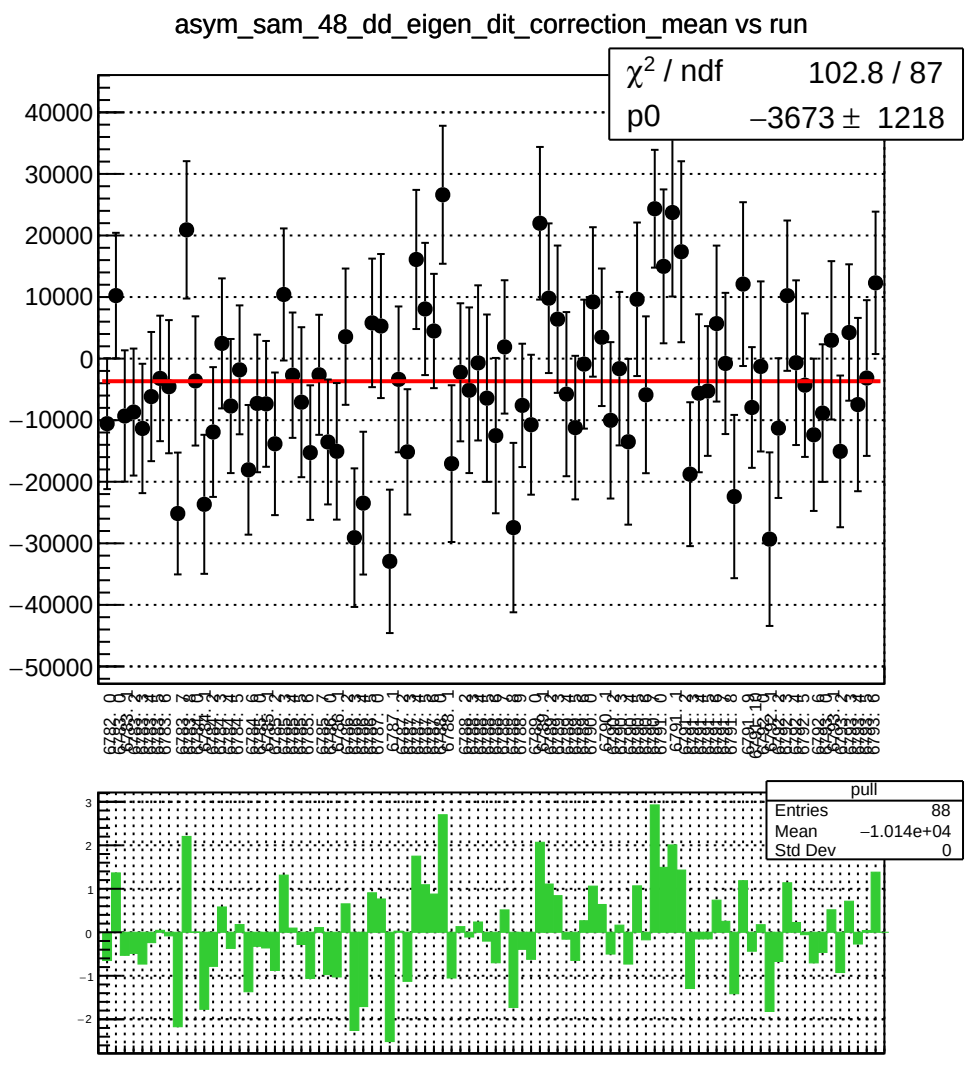

pull1D
Entries 88
Mean −0.0004492
Std Dev 1.081

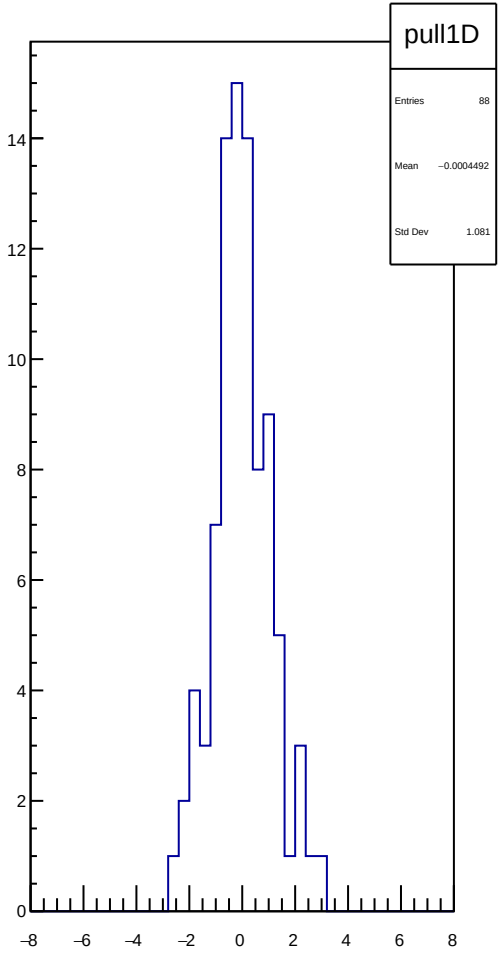

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.413e+04 / 87
p0 1103 ± 0.8613
1400
1300
1200
1100
1000
900

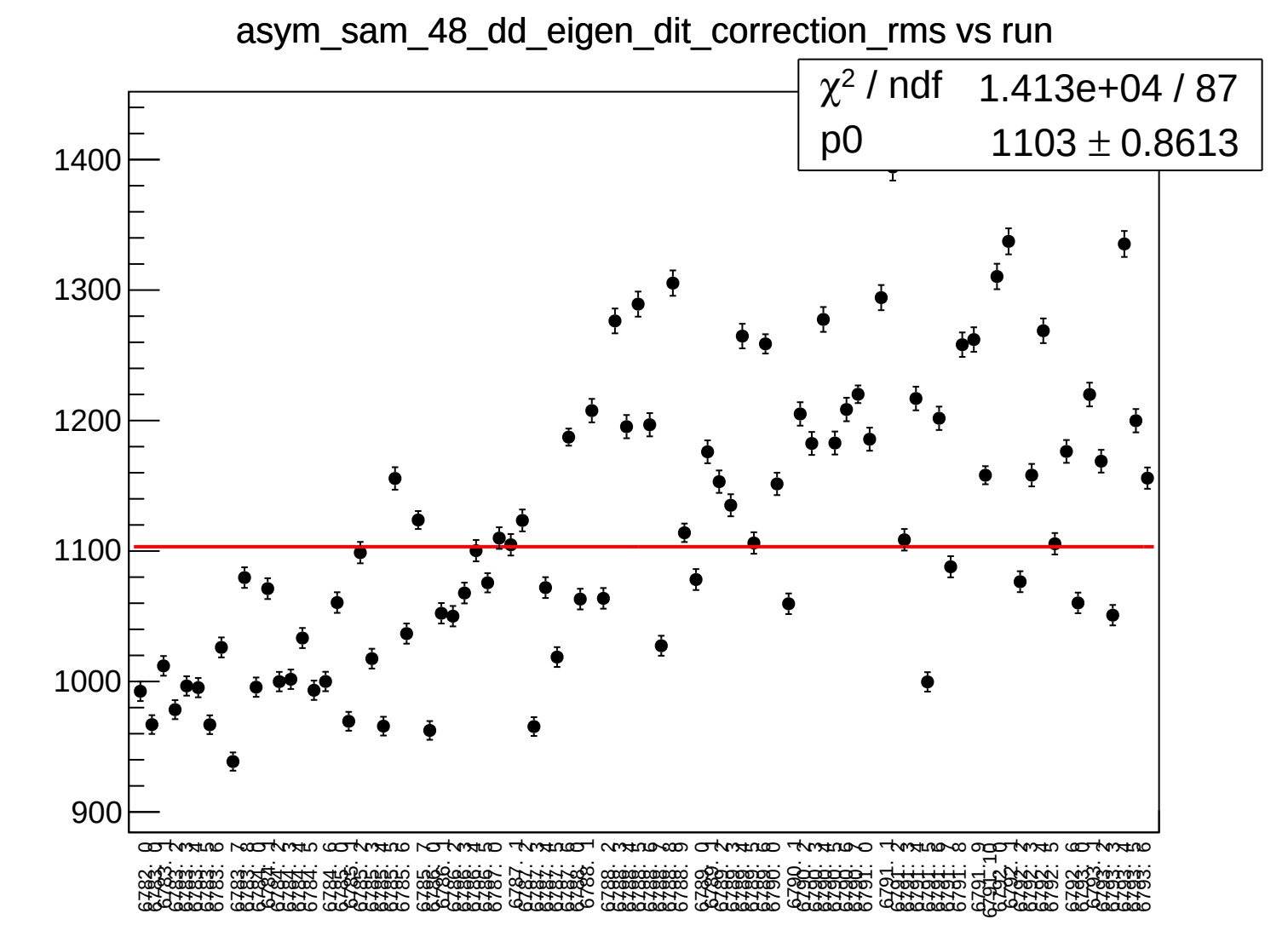

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 80.04 / 87
p0 9.583 ± 175.7
pull
Entries 88
Mean 45.44
Std Dev 68.1

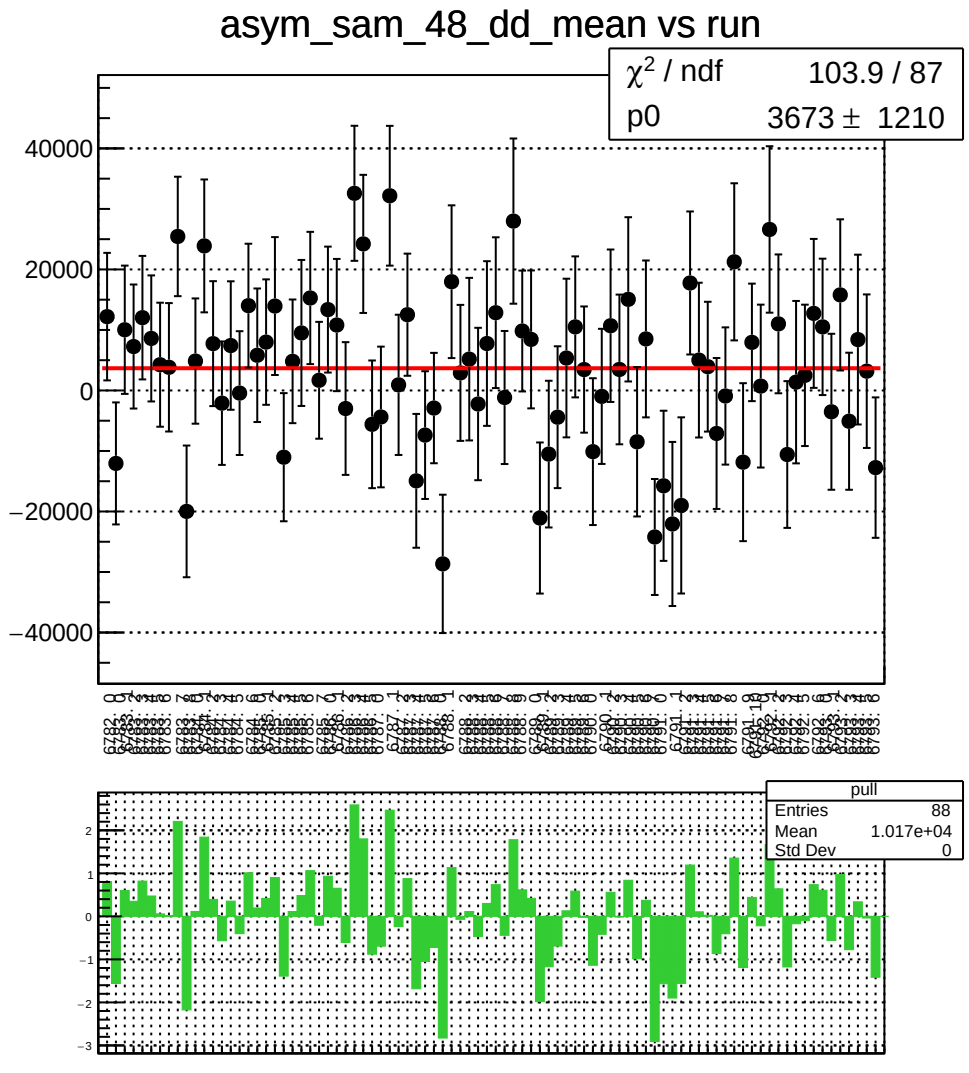

pull1D
Entries 88
Mean −0.0102
Std Dev 0.9536

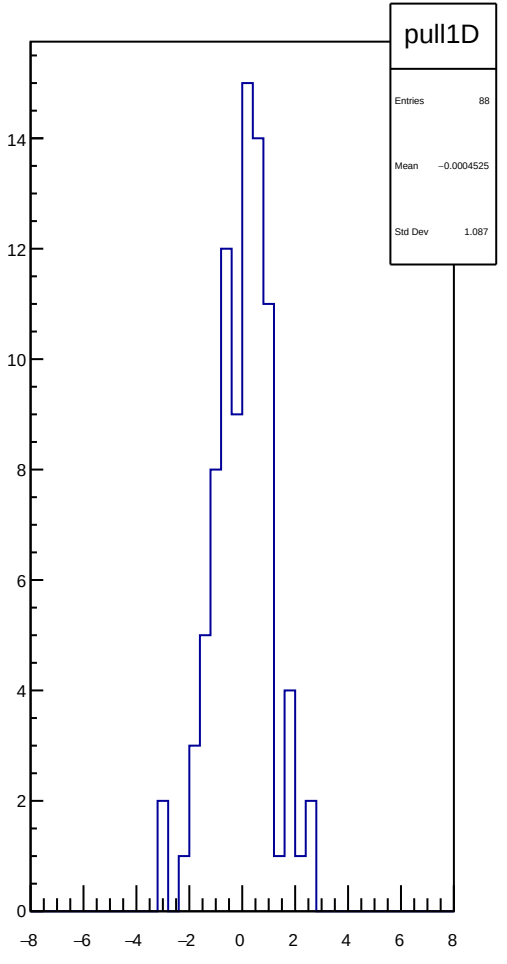

eigen_dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 1527 / 87
p0 159.7 ± 0.1242
175
170
165
160
155
150

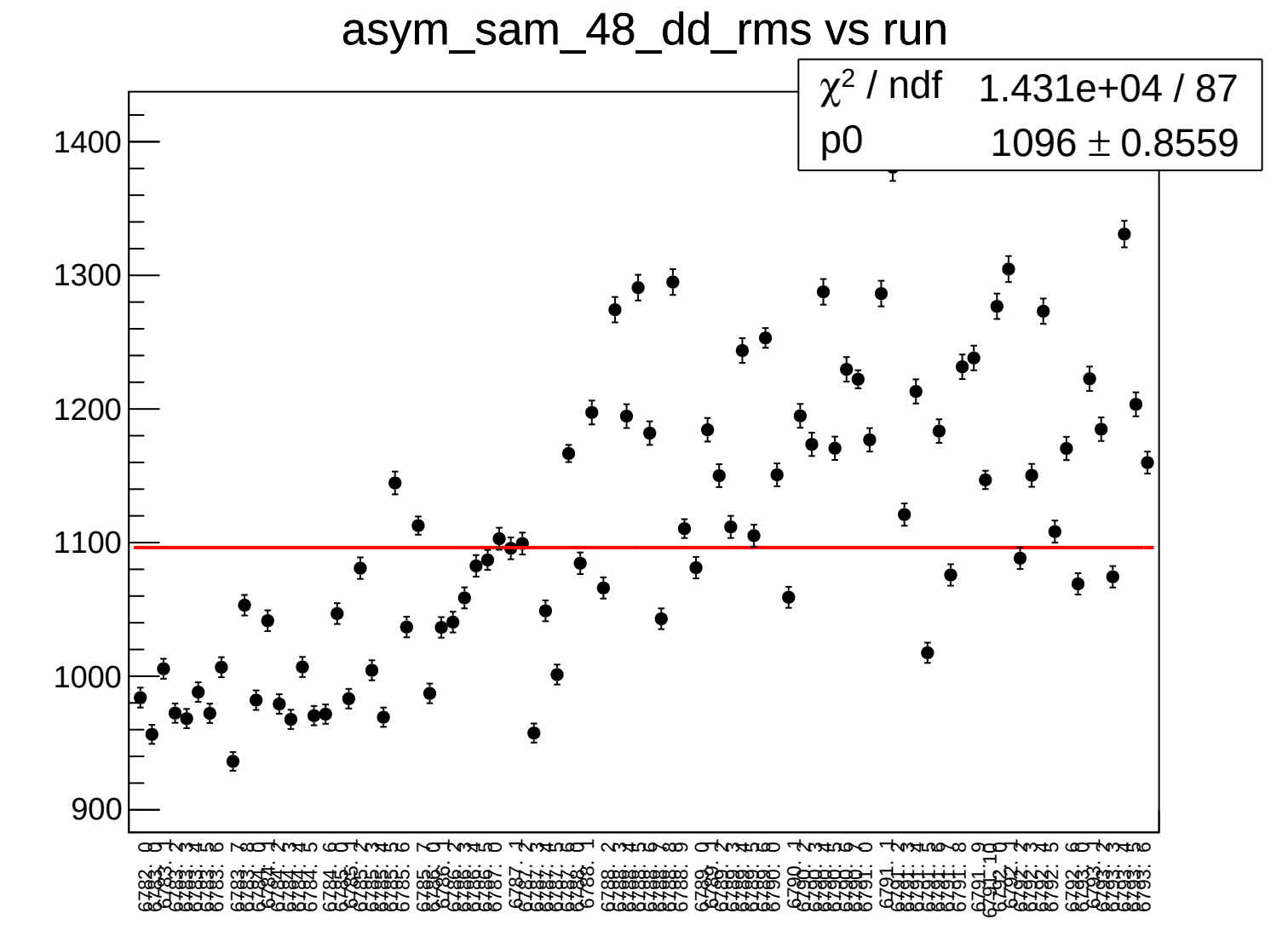

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.8 / 87
p0 −3673 ± 1218
pull
Entries 88
Mean −1.014e+04
Std Dev 0

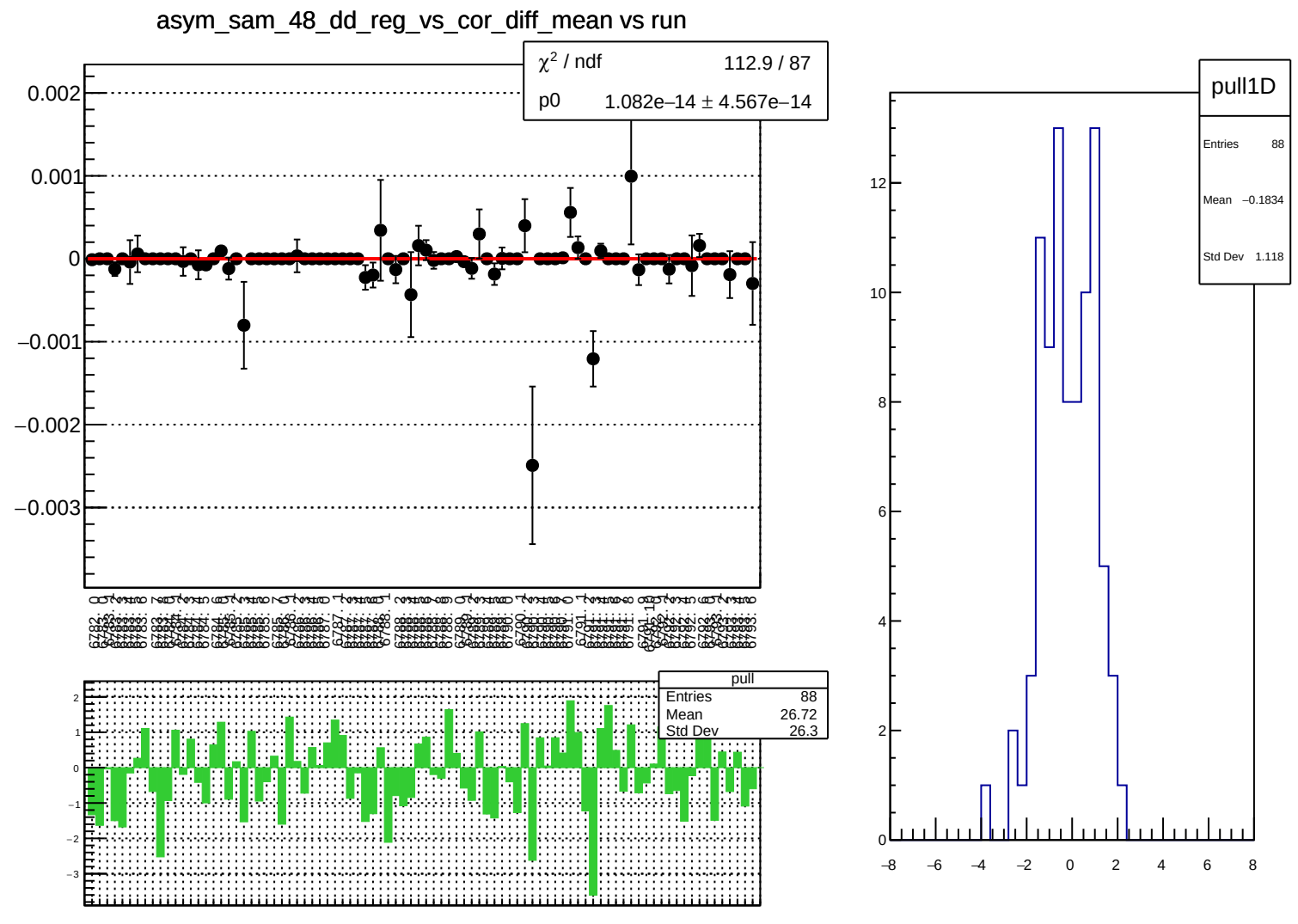

pull1D
Entries 88
Mean −0.0004492
Std Dev 1.081

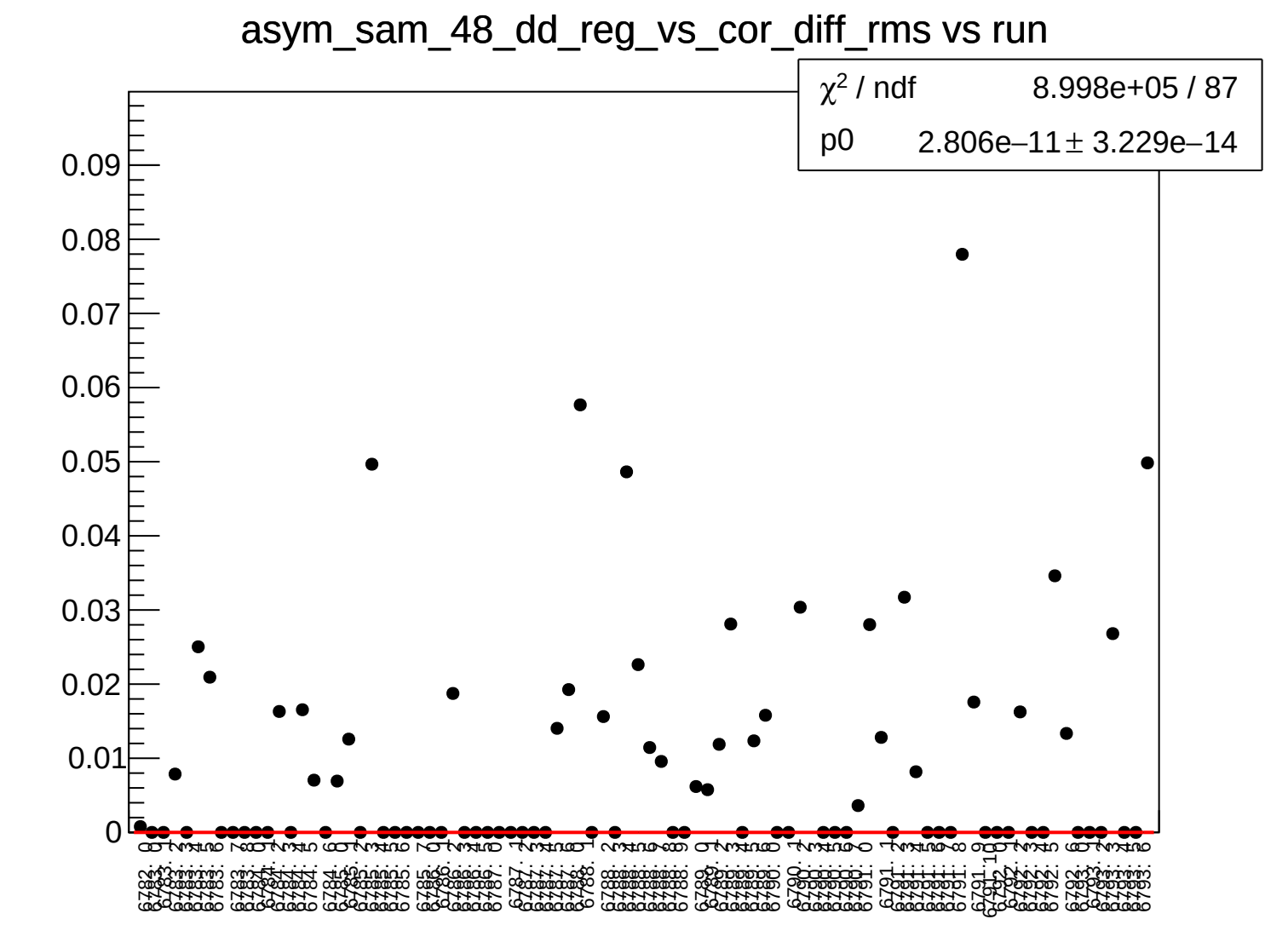

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.413e+04 / 87
p0 1103 ± 0.8613
1400
1300
1200
1100
1000
900

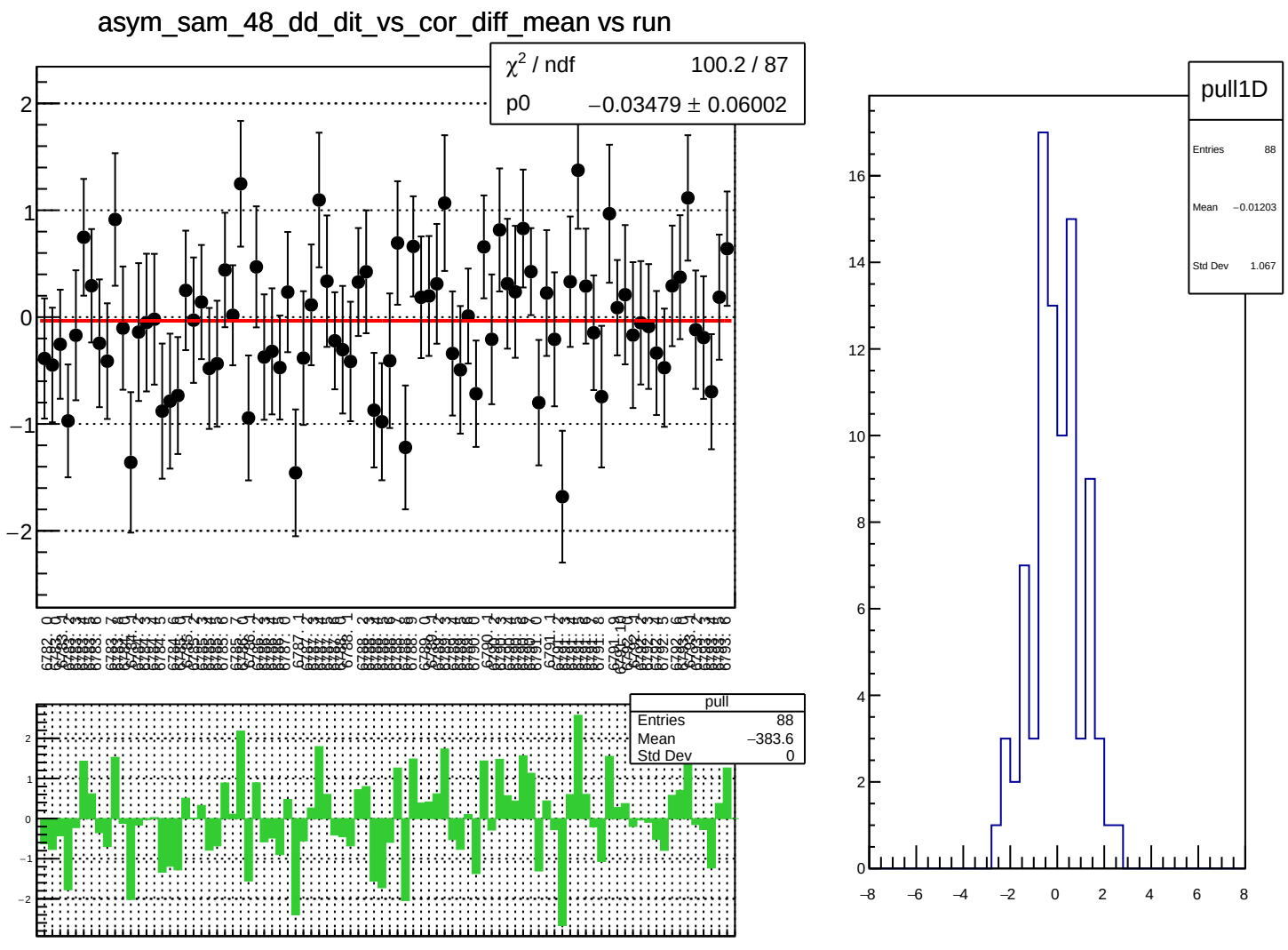

asym_sam_48_dd_mean vs run
χ² / ndf 103.9 / 87
p0 3673 ± 1210
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1.017e+04
Std Dev 0
2
1
0
−1
−2
−3

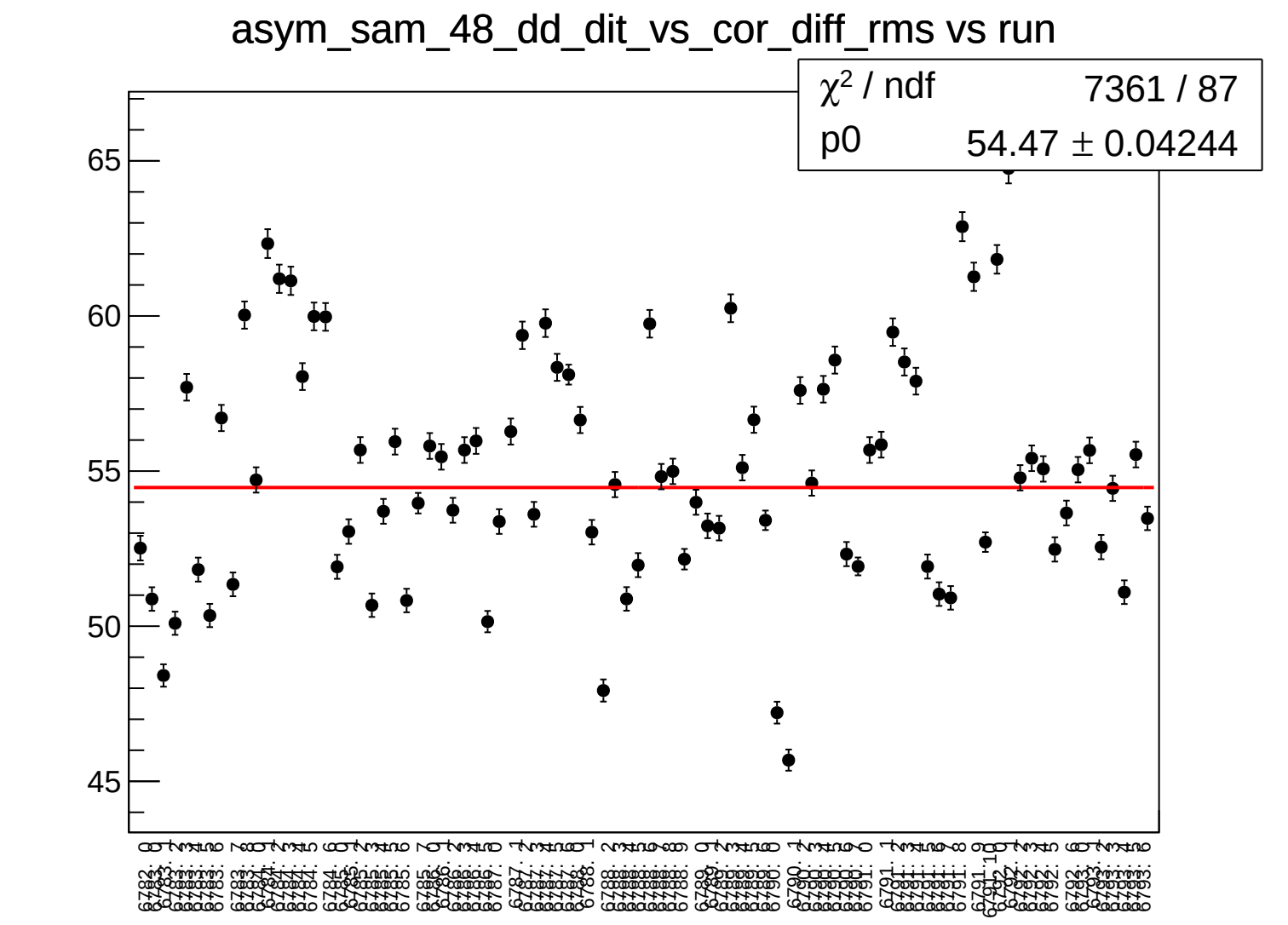

pull1D
Entries 88
Mean −0.0004525
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

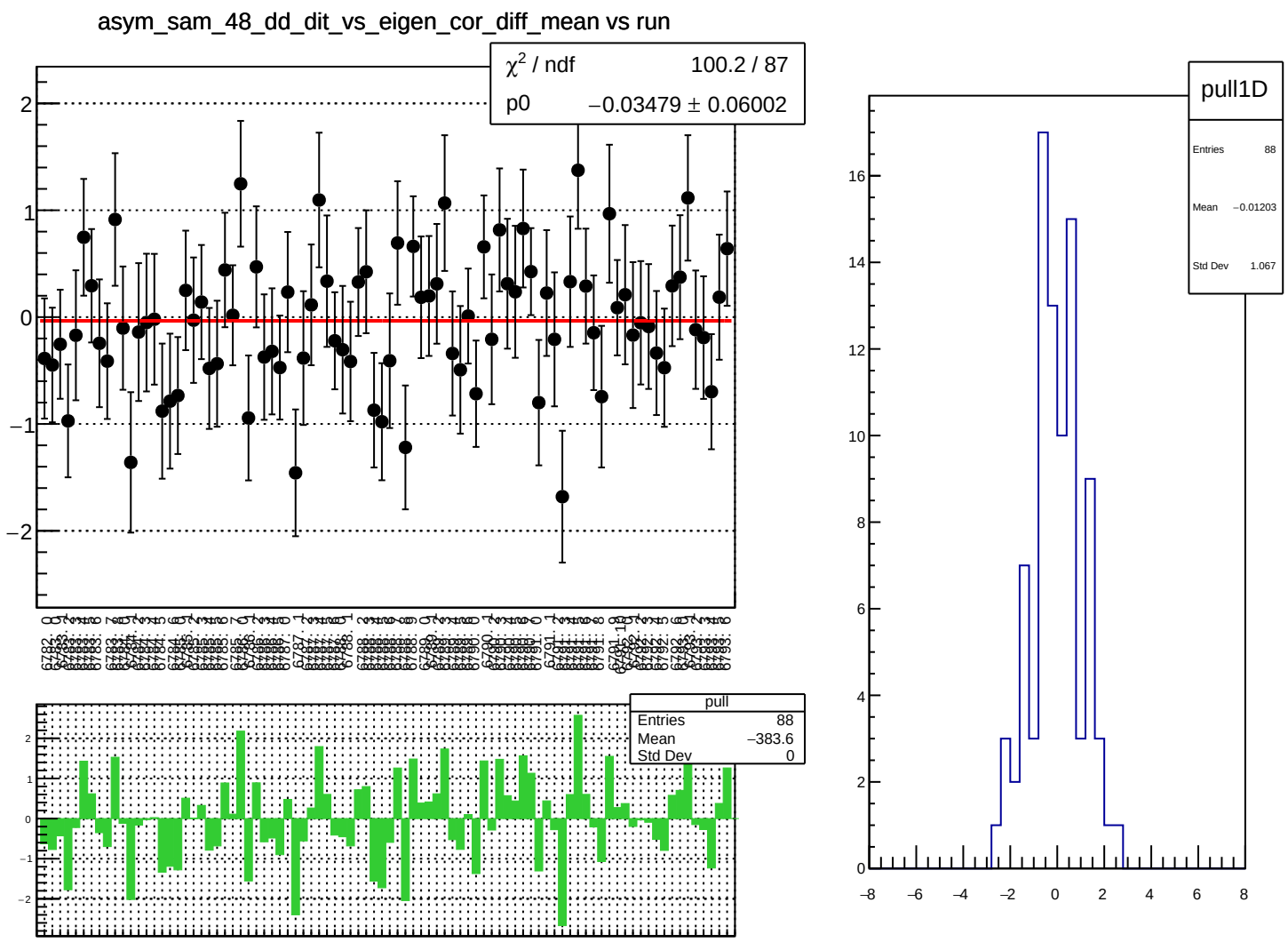

asym_sam_48_dd_rms vs run
χ² / ndf 1.431e+04 / 87
p0 1096 ± 0.8559
1400
1300
1200
1100
1000
900

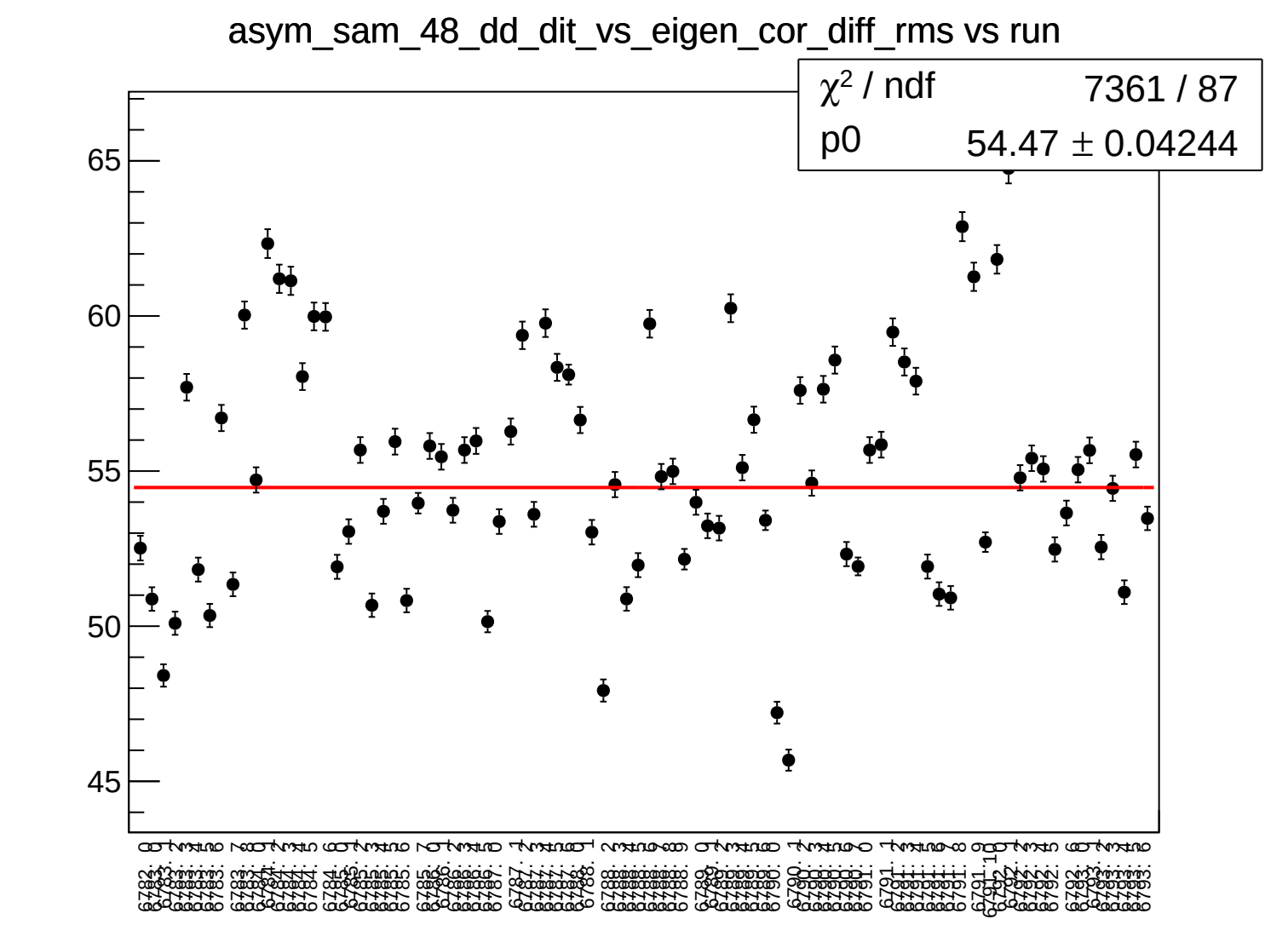

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 87
p0 1.082e−14 ± 4.567e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean 26.72
Std Dev 26.3
pull1D
Entries 88
Mean −0.1834
Std Dev 1.118

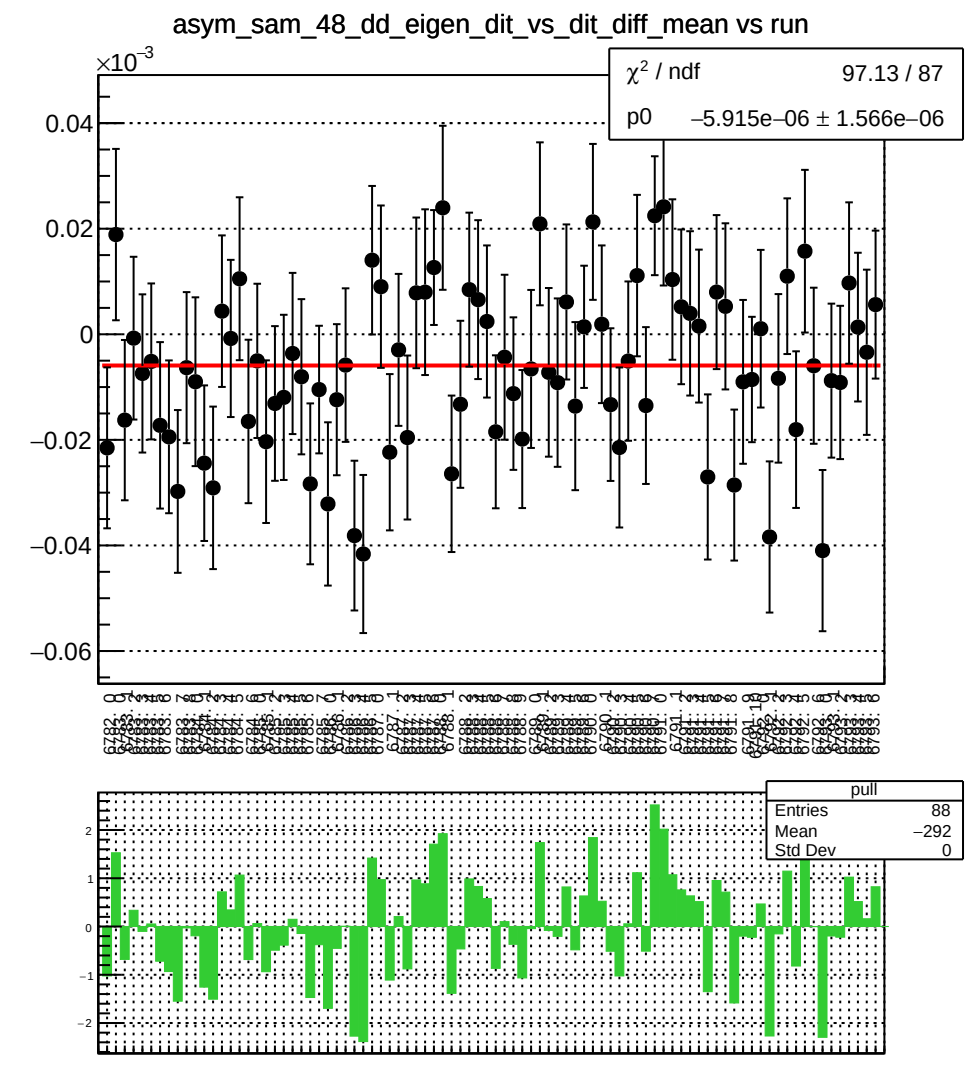

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.998e+05 / 87
p0 2.806e−11 ± 3.229e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

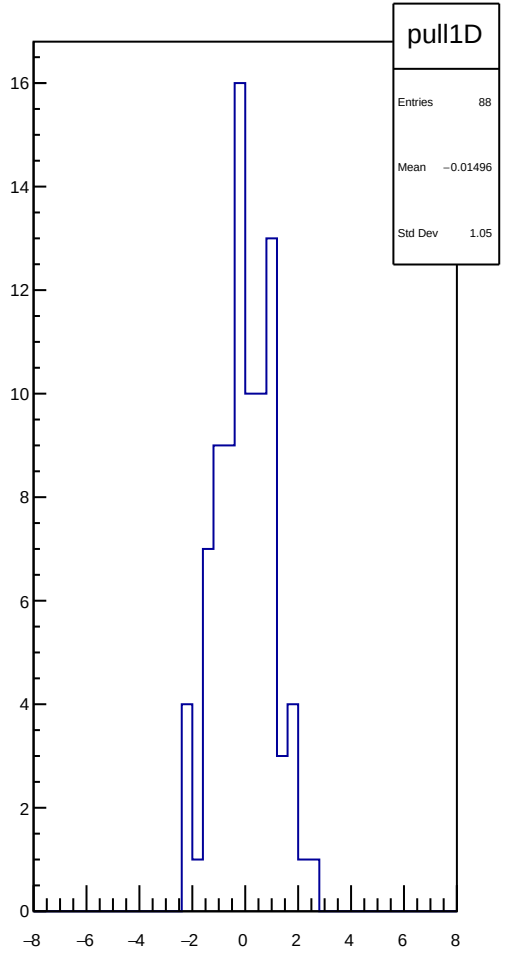

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 87
p0 −0.03479 ± 0.06002
pull
Entries 88
Mean −383.6
Std Dev 0
pull1D
Entries 88
Mean −0.01203
Std Dev 1.067

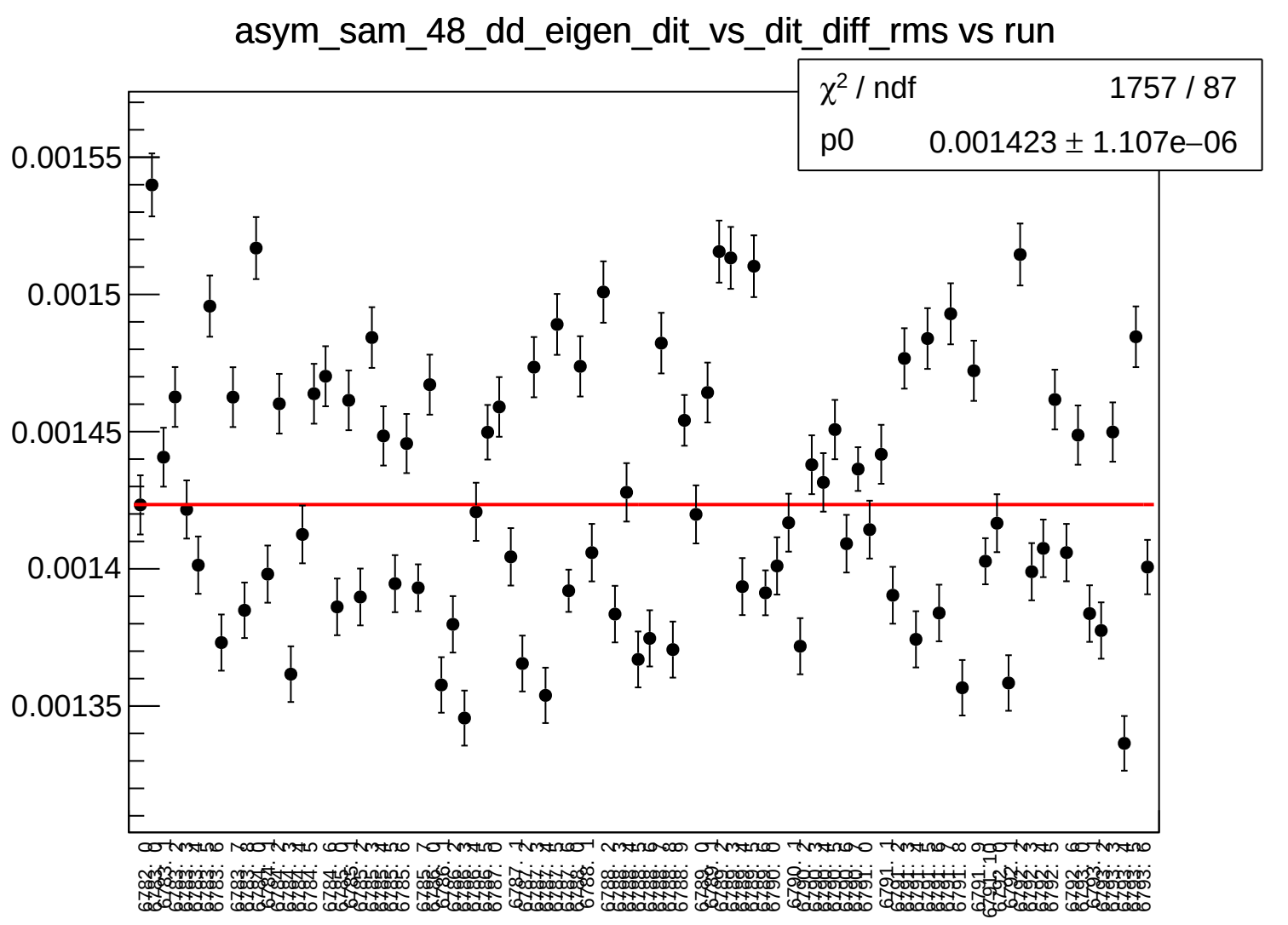

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7361 / 87
p0 54.47 ± 0.04244
65
60
55
50
45

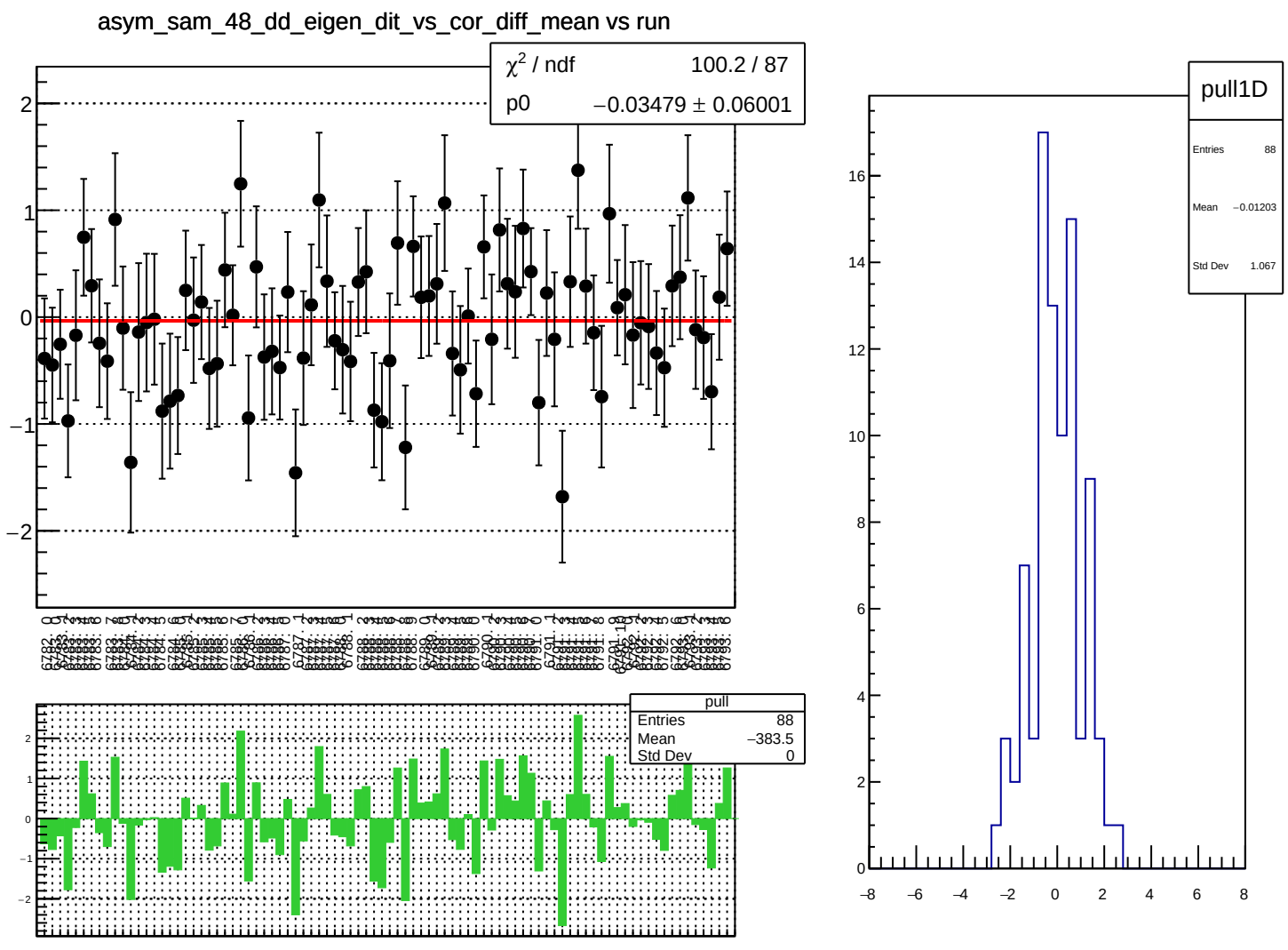

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 87
p0 −0.03479 ± 0.06002
pull
Entries 88
Mean −383.6
Std Dev 0
pull1D
Entries 88
Mean −0.01203
Std Dev 1.067

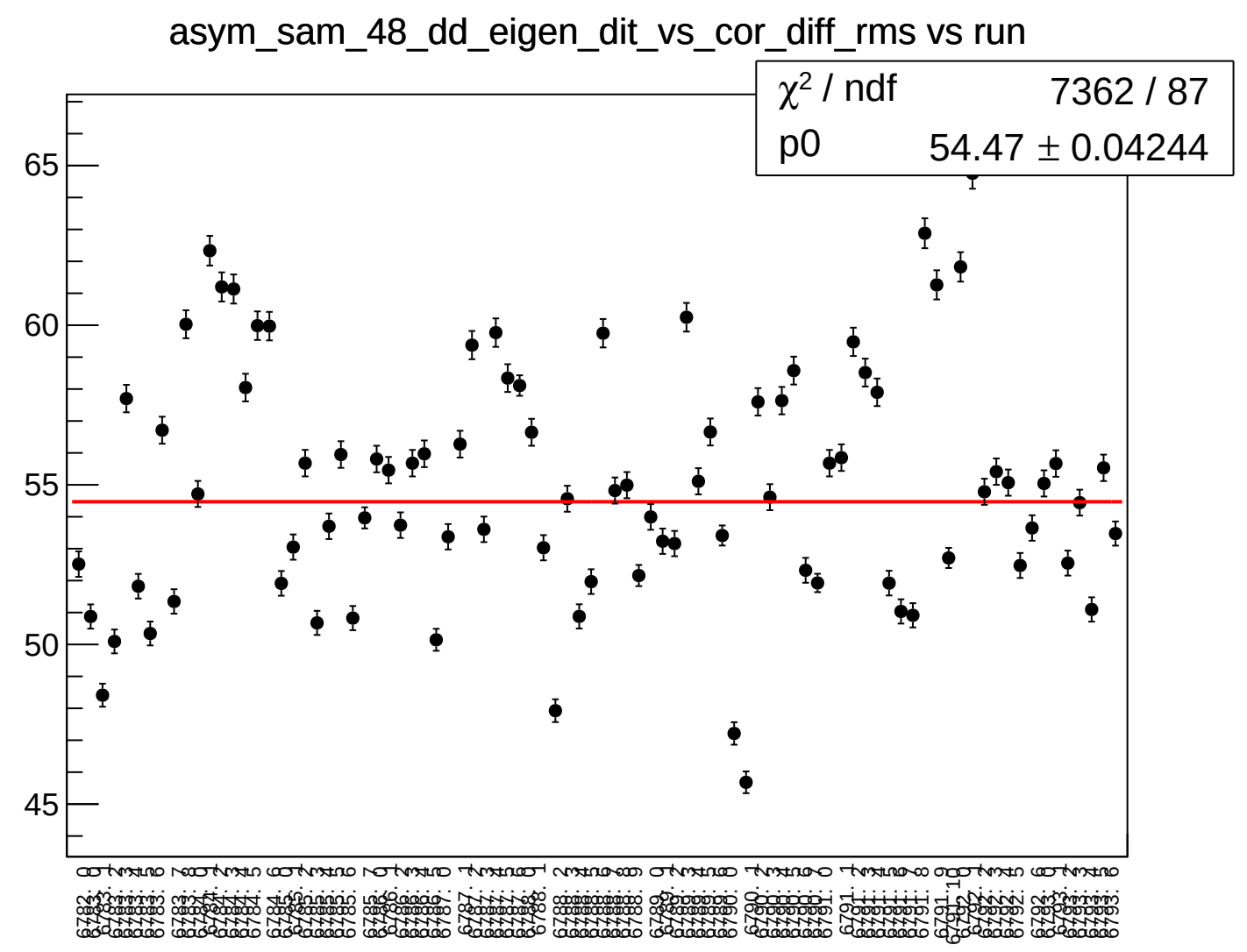

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7361 / 87
p0 54.47 ± 0.04244
65
60
55
50
45

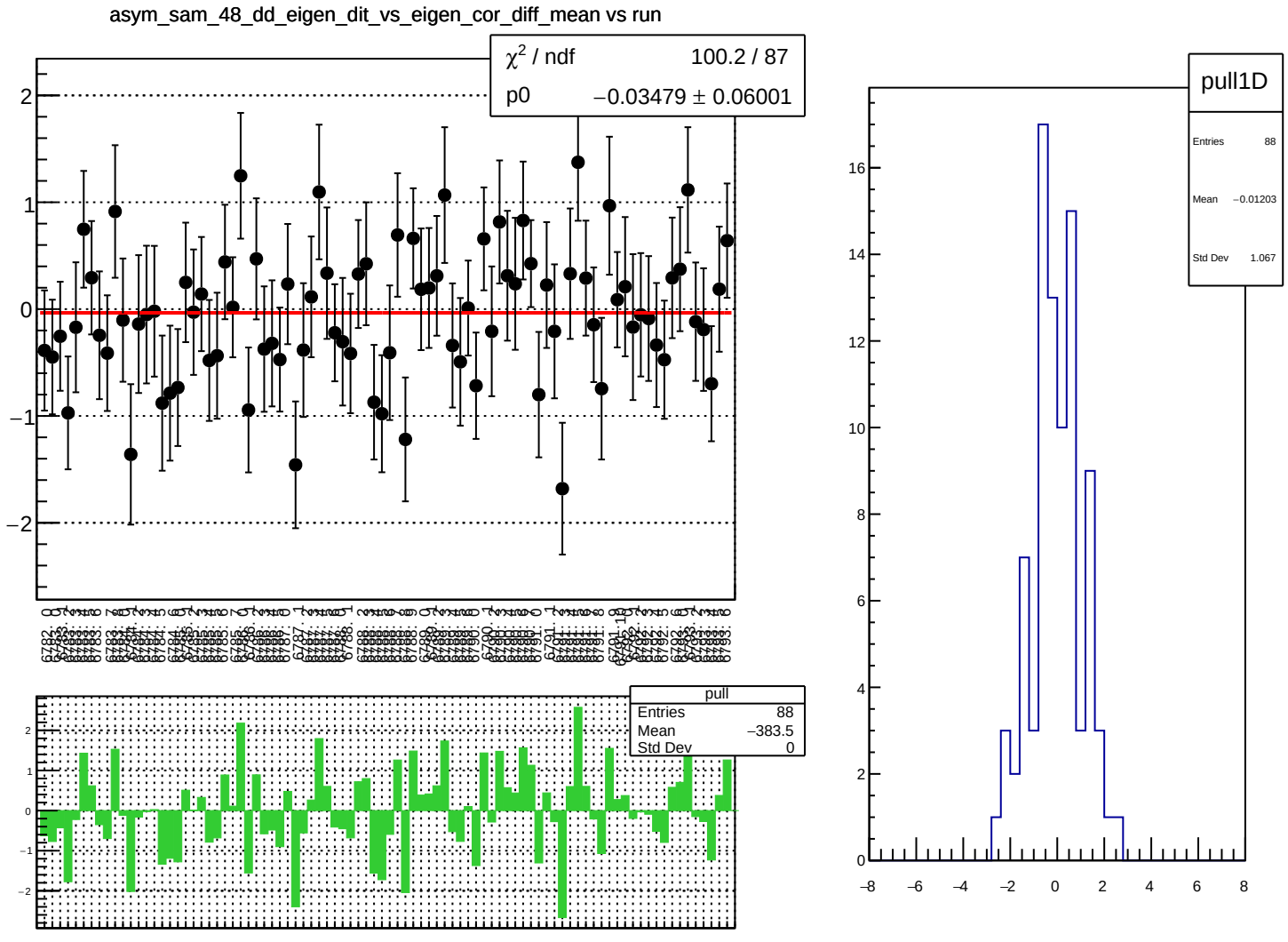

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.13 / 87
p0 −5.915e−06 ± 1.566e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −292
Std Dev 0
2
1
0
−1
−2

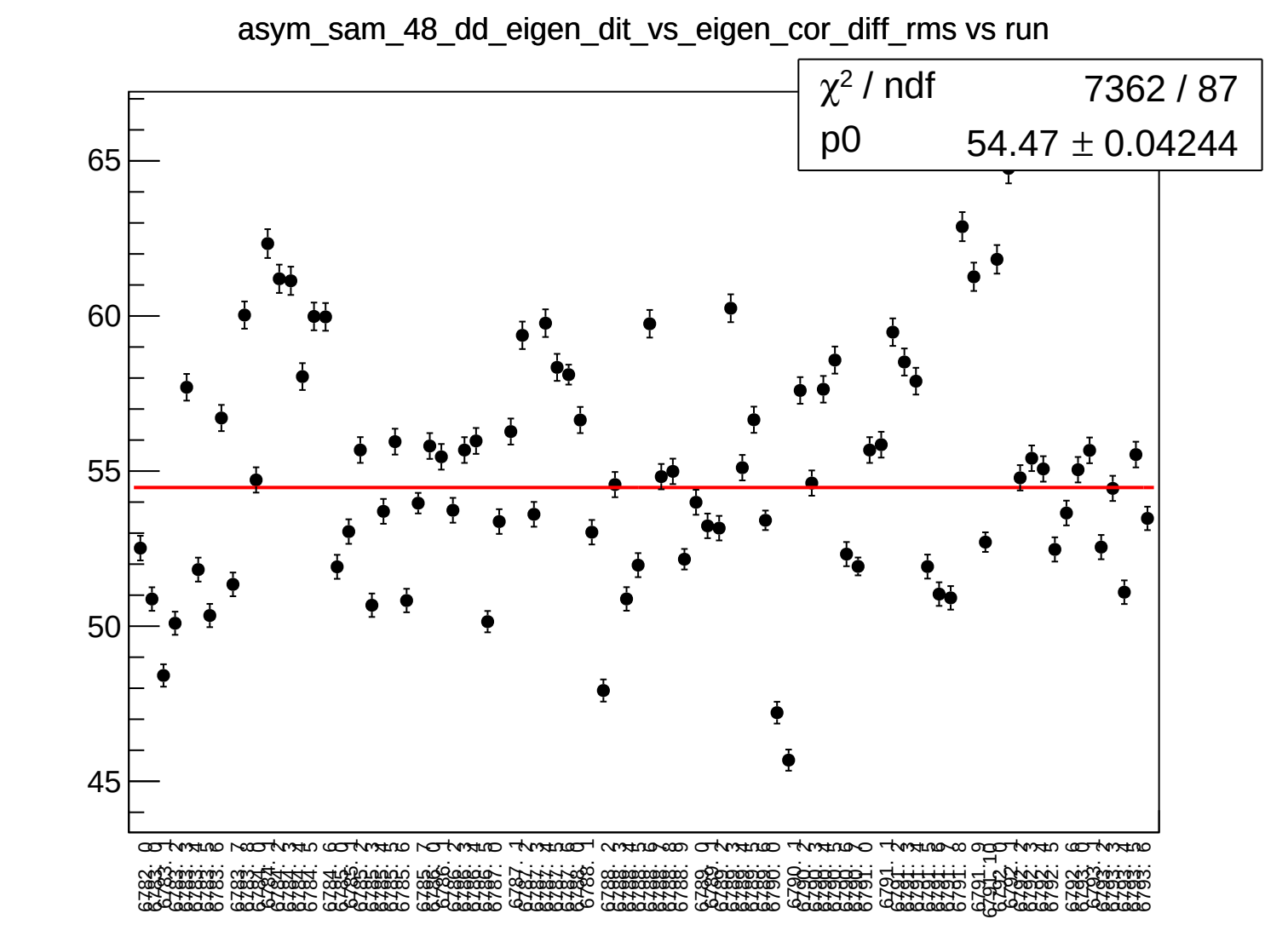

pull1D
Entries 88
Mean −0.01496
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

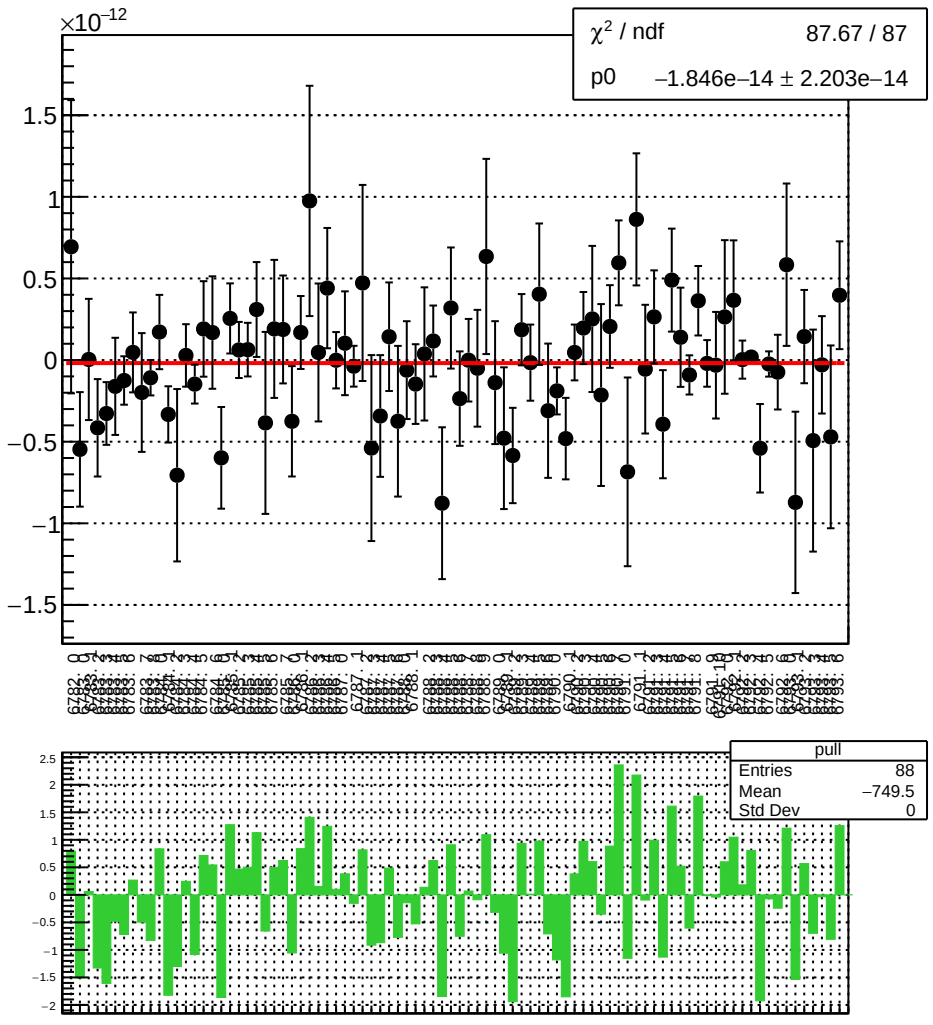

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1757 / 87
p0 0.001423 ± 1.107e−06
0.00155
0.0015
0.00145
0.0014
0.00135

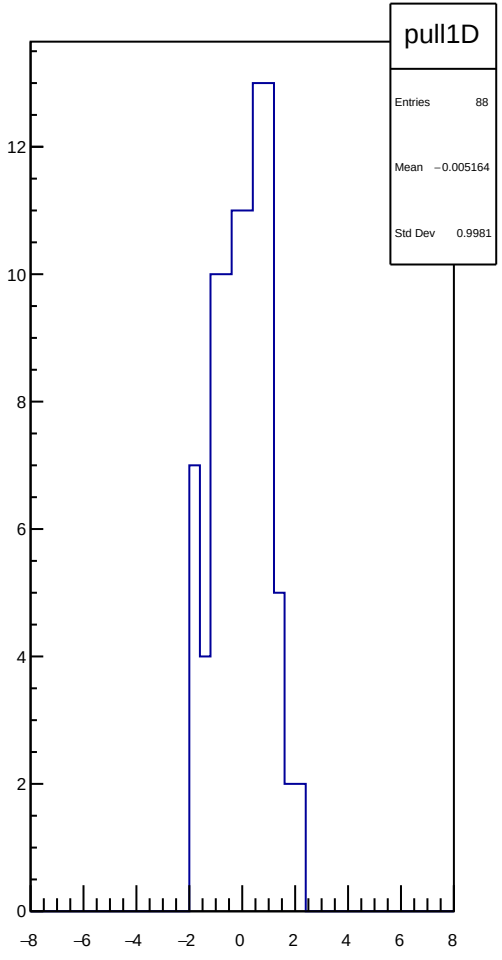

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 87
p0 −0.03479 ± 0.06001
pull
Entries 88
Mean −383.5
Std Dev 0
pull1D
Entries 88
Mean −0.01203
Std Dev 1.067

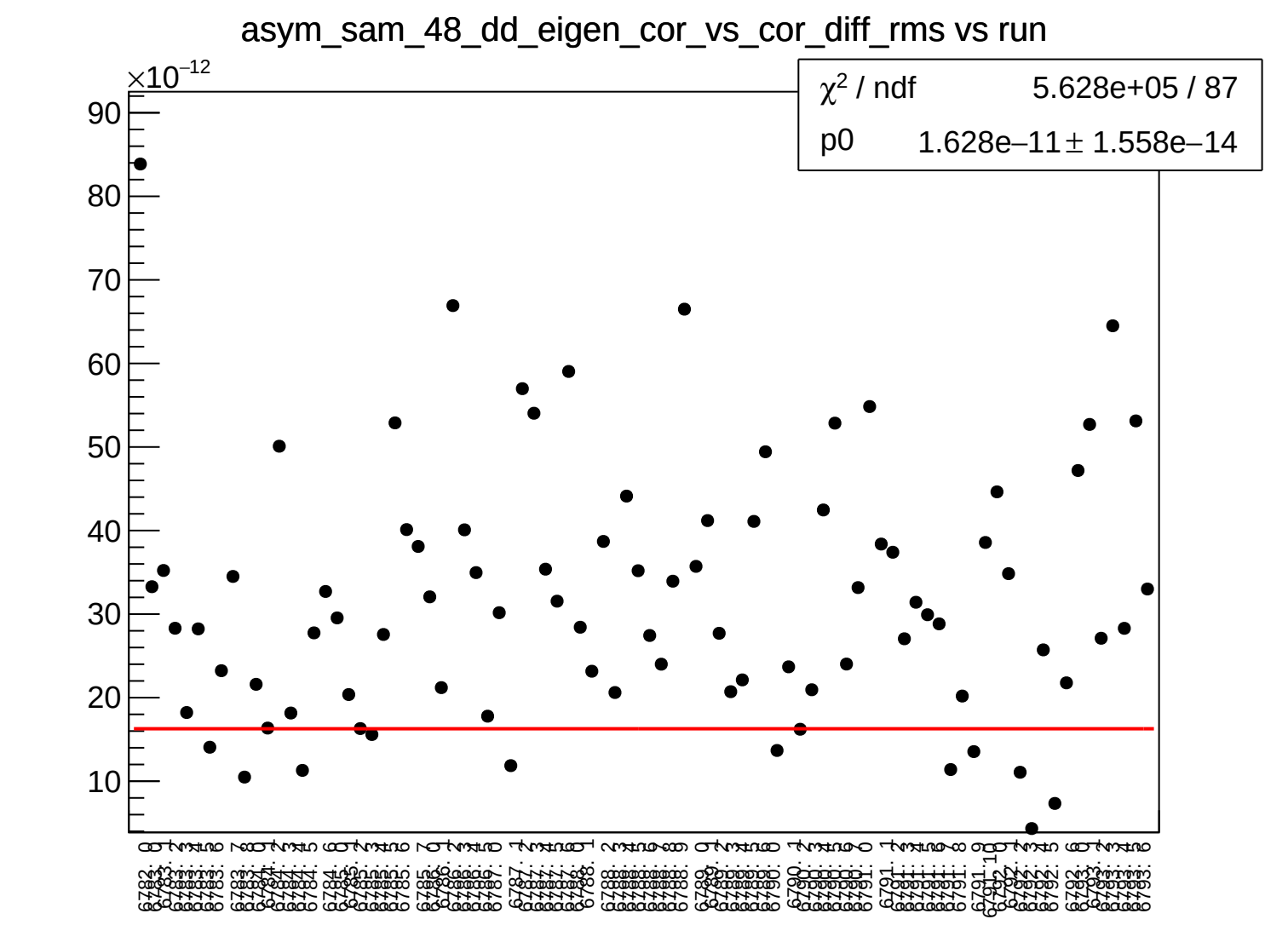

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7362 / 87
p0 54.47 ± 0.04244
65
60
55
50
45

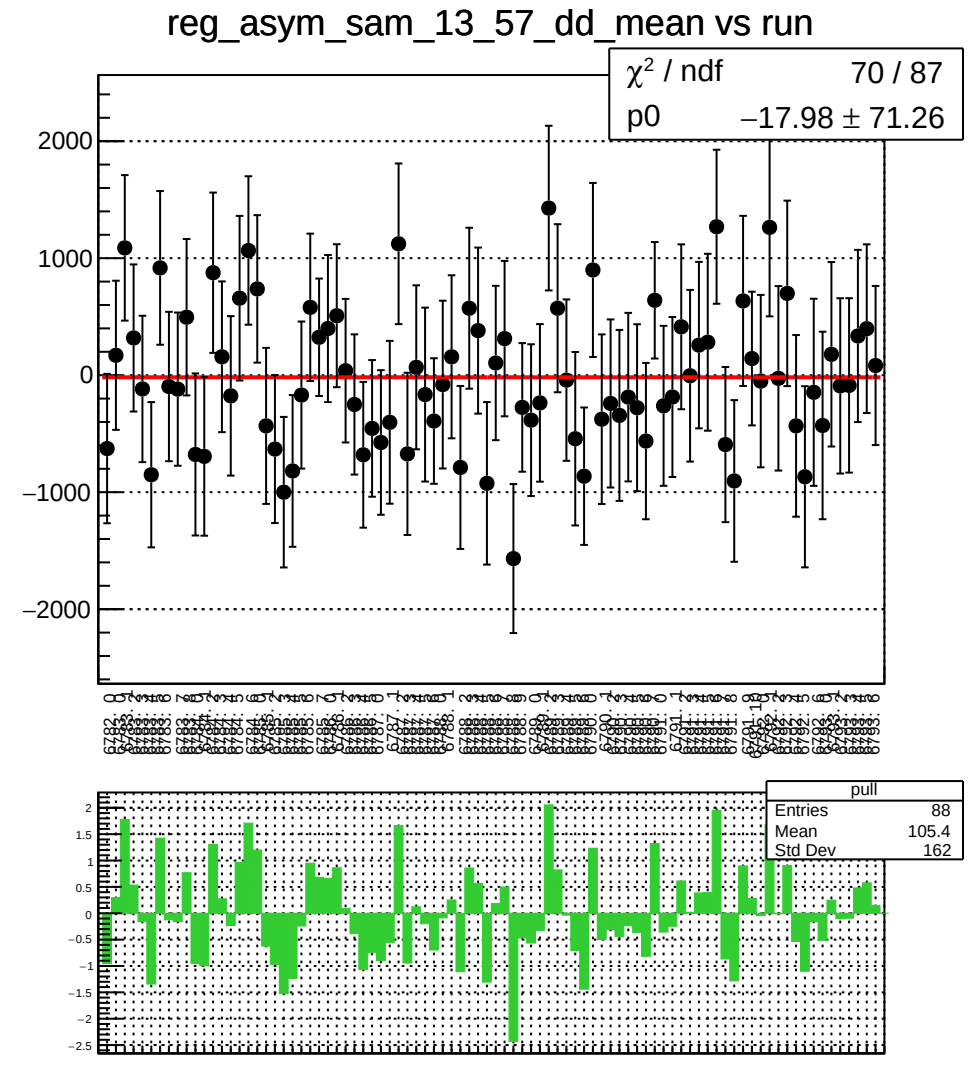

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 87
p0 −0.03479 ± 0.06001
pull
Entries 88
Mean −383.5
Std Dev 0
pull1D
Entries 88
Mean −0.01203
Std Dev 1.067

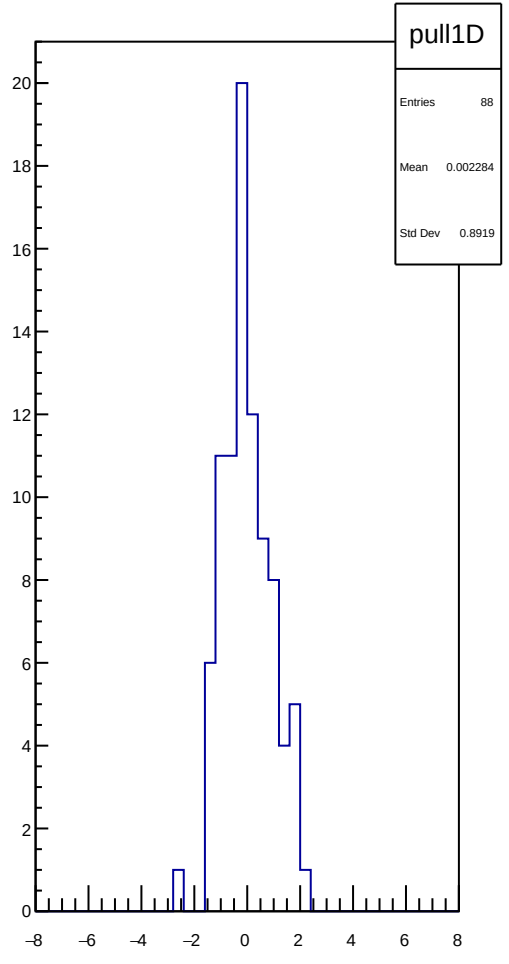

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7362 / 87
p0 54.47 ± 0.04244
65
60
55
50
45

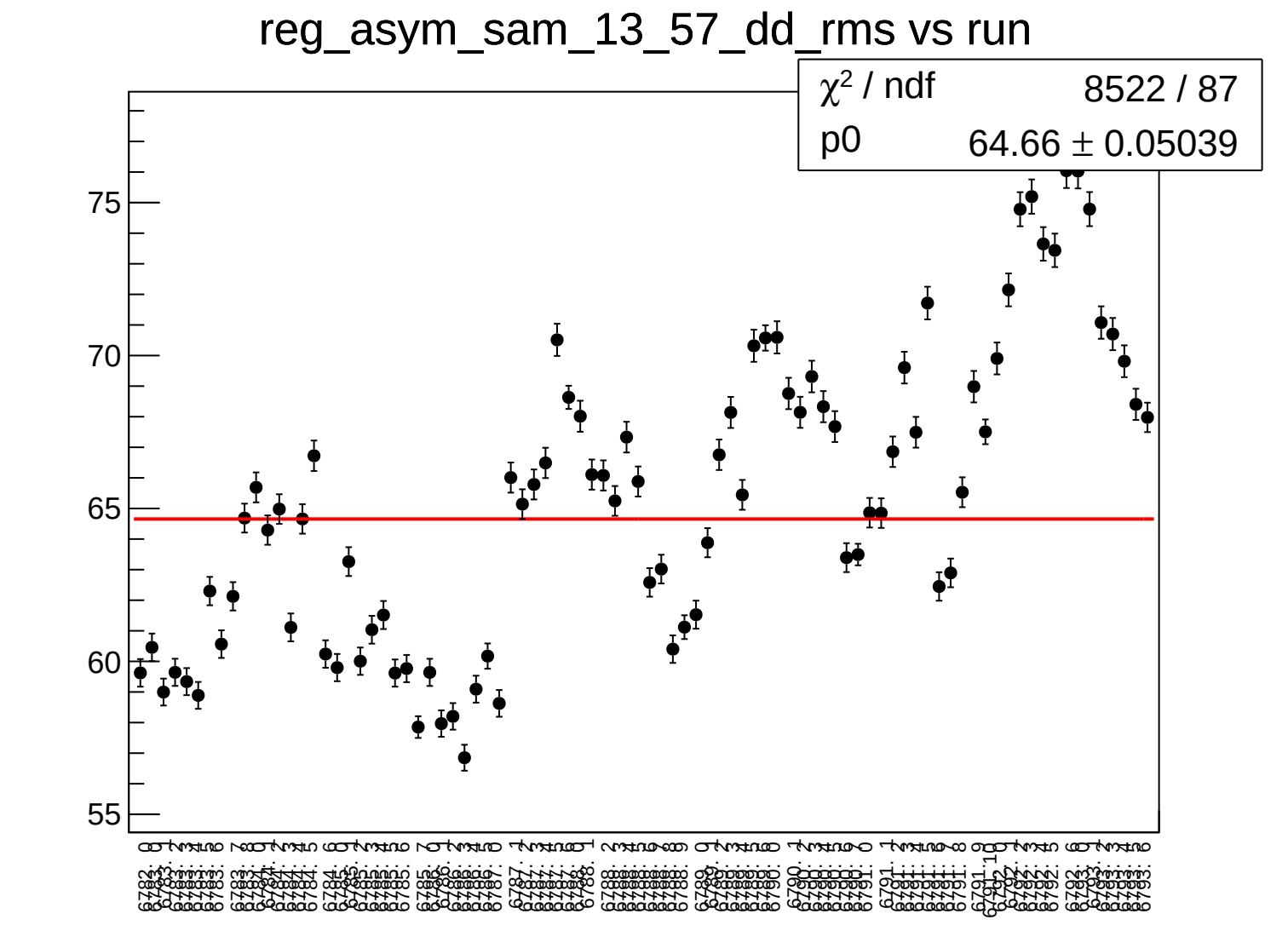

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.67 / 87
p0 −1.846e−14 ± 2.203e−14
pull
Entries 88
Mean −749.5
Std Dev 0

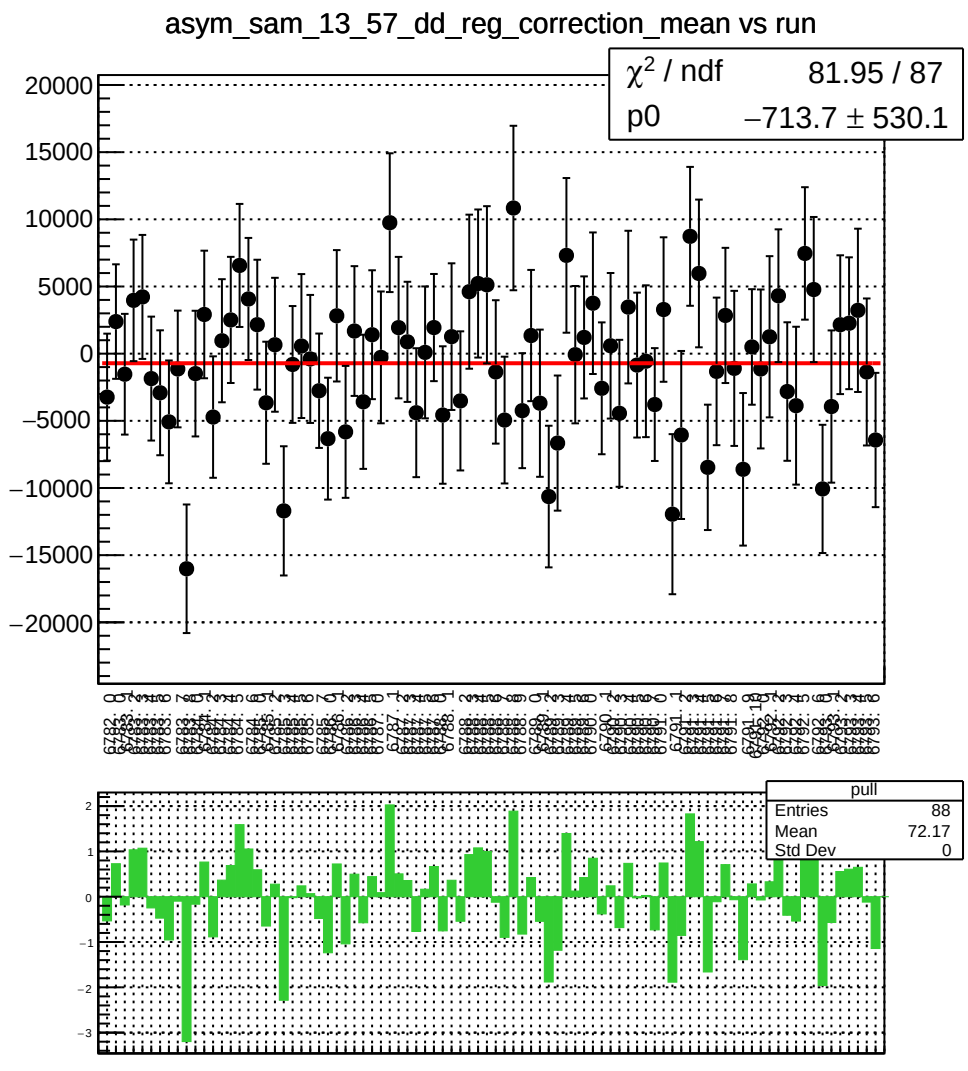

pull1D
Entries 88
Mean −0.005164
Std Dev 0.9981

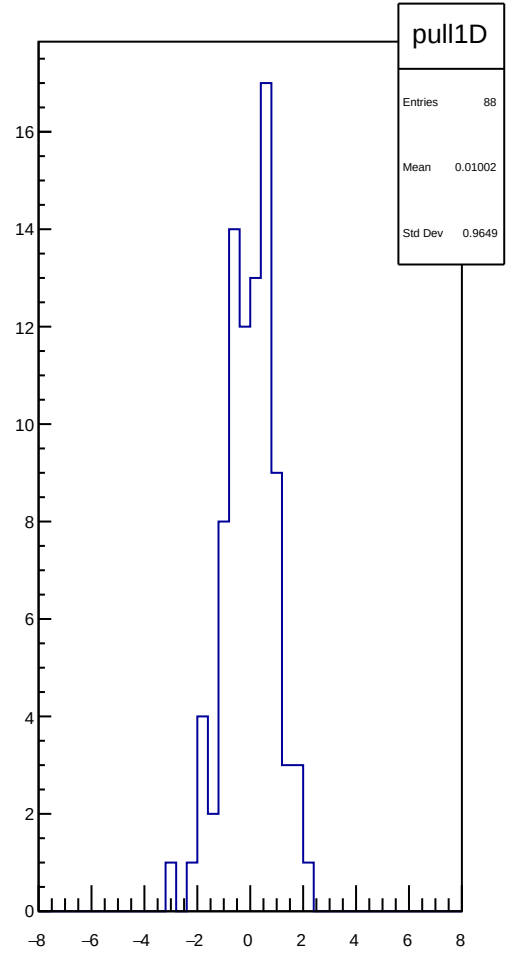

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 5.628e+05 / 87
p0 1.628e−11 ± 1.558e−14

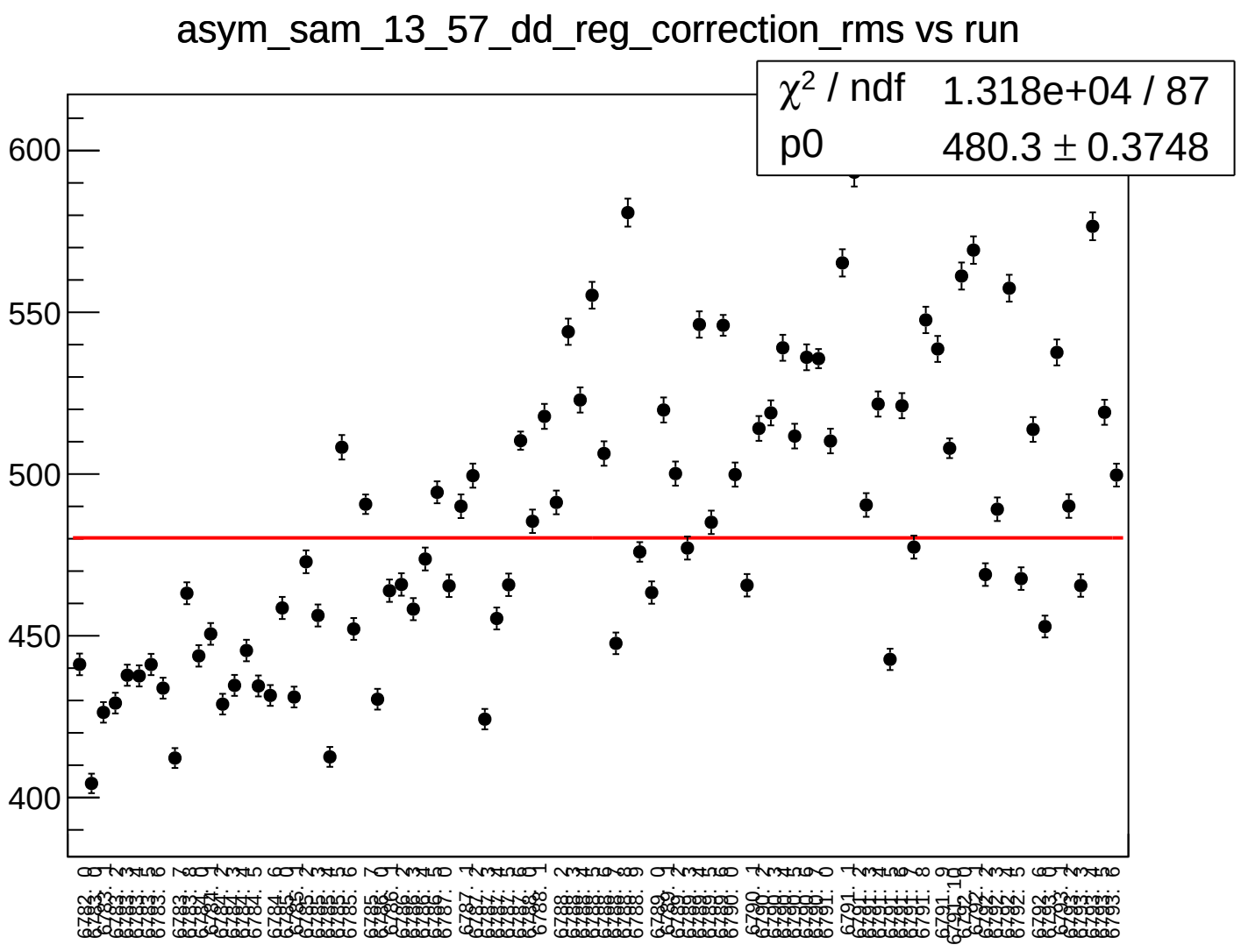

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 70 / 87
p0 −17.98 ± 71.26
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 105.4
Std Dev 162
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

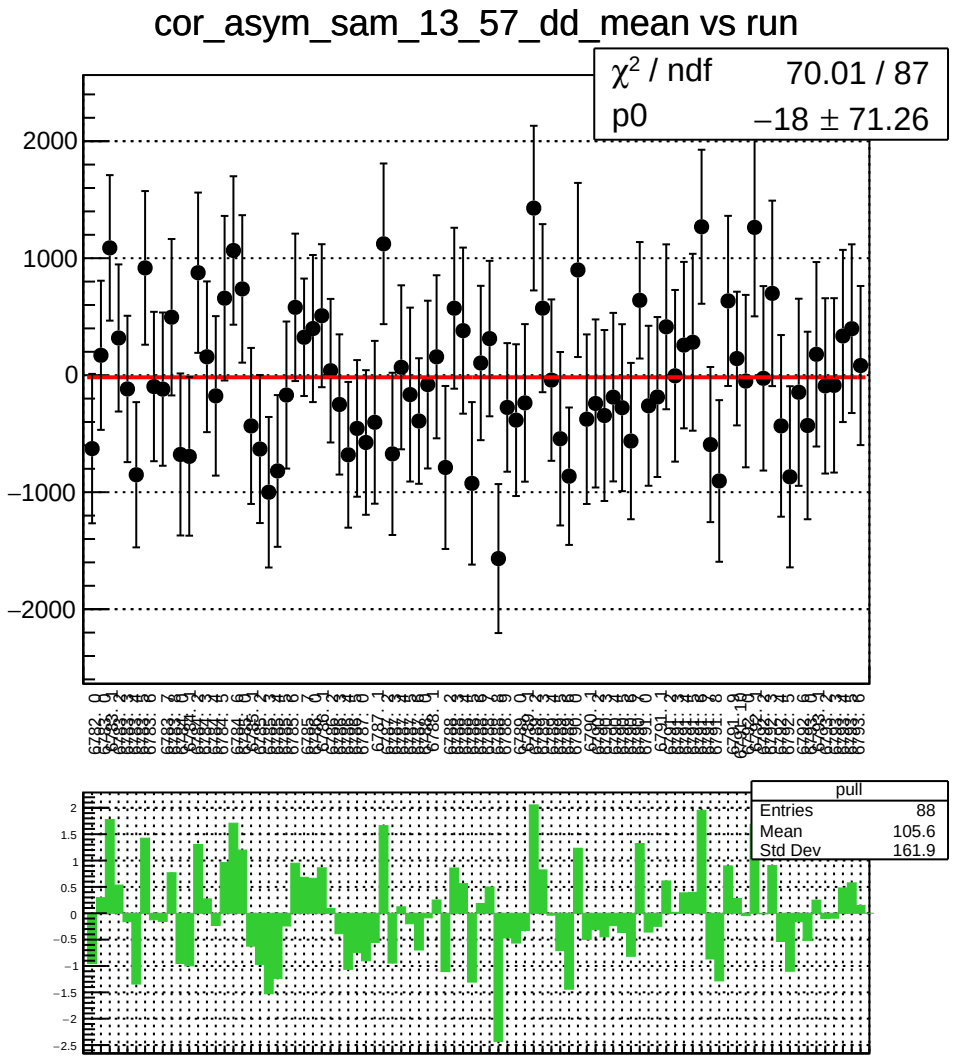

pull1D
Entries 88
Mean 0.002284
Std Dev 0.8919
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

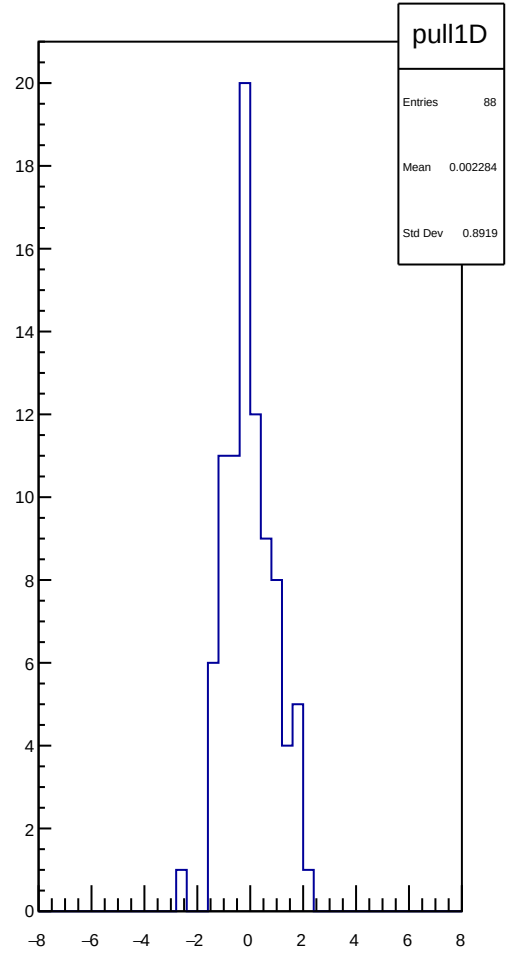

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 8522 / 87
p0 64.66 ± 0.05039
75
70
65
60
55

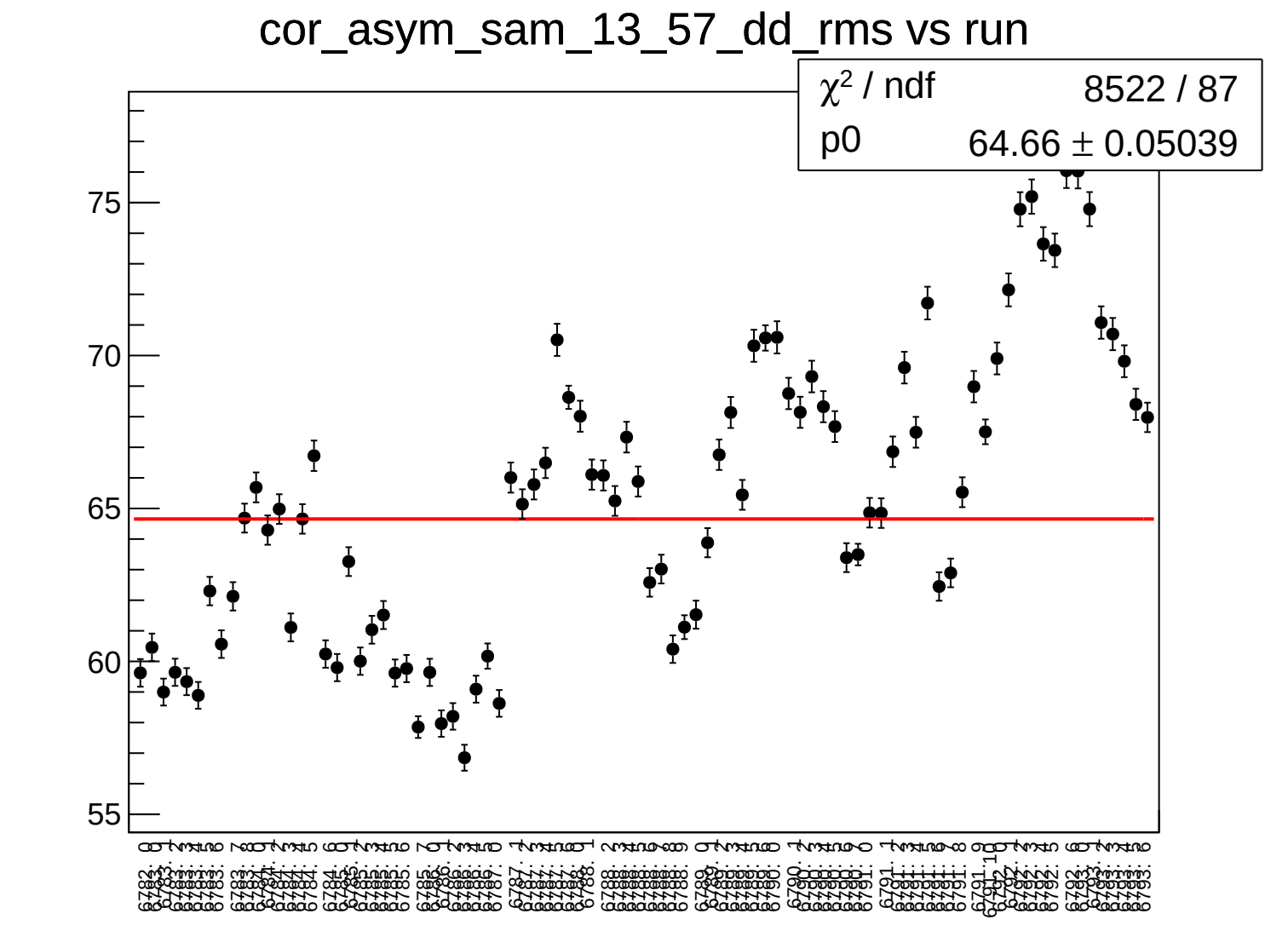

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 81.95 / 87
p0 −713.7 ± 530.1
pull
Entries 88
Mean 72.17
Std Dev 0

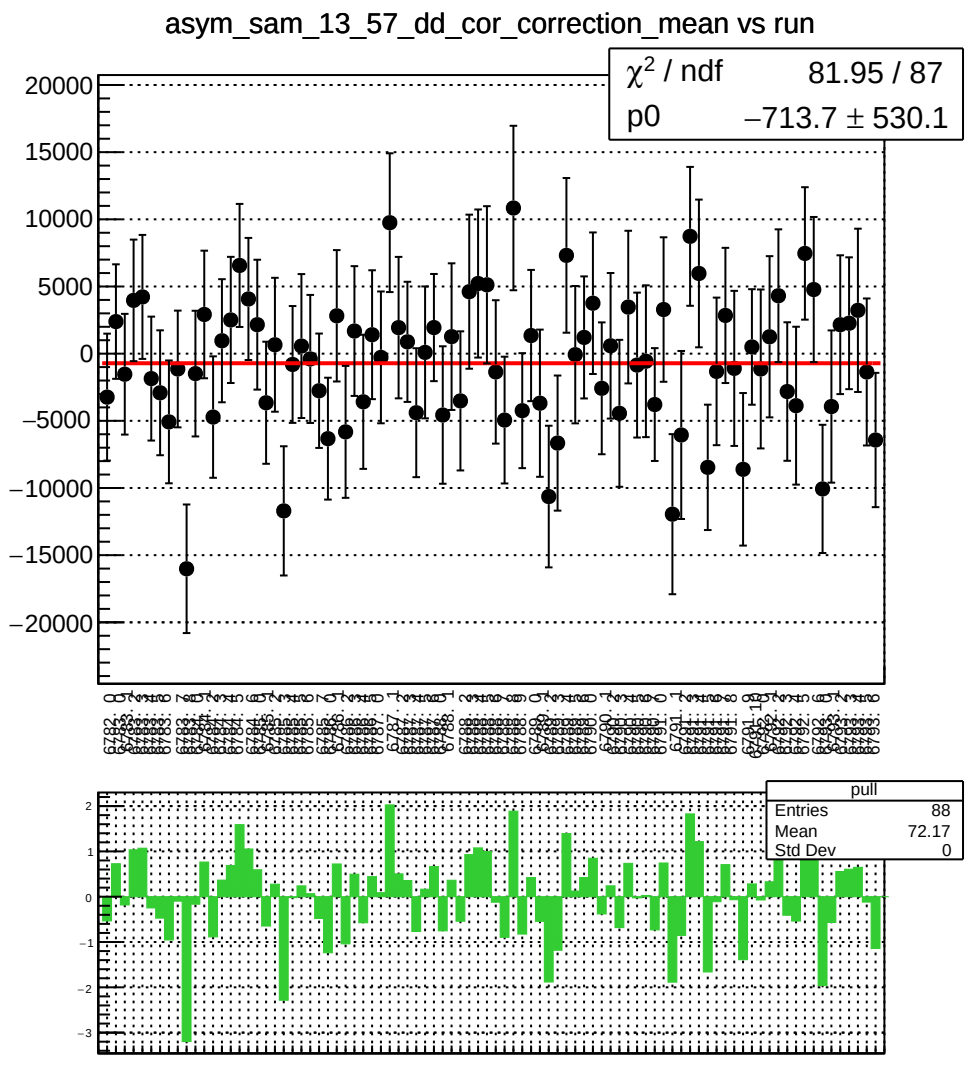

pull1D
Entries 88
Mean 0.01002
Std Dev 0.9649

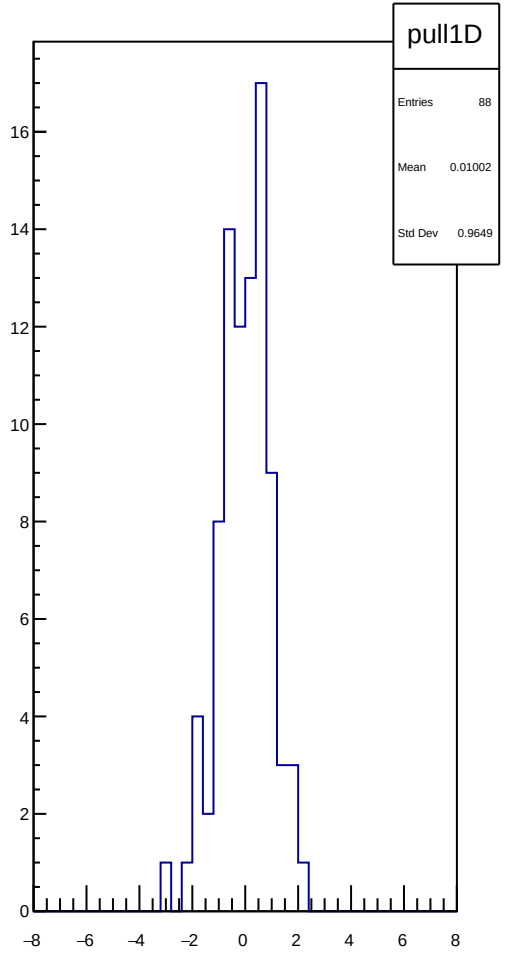

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.318e+04 / 87
p0 480.3 ± 0.3748
600
550
500
450
400

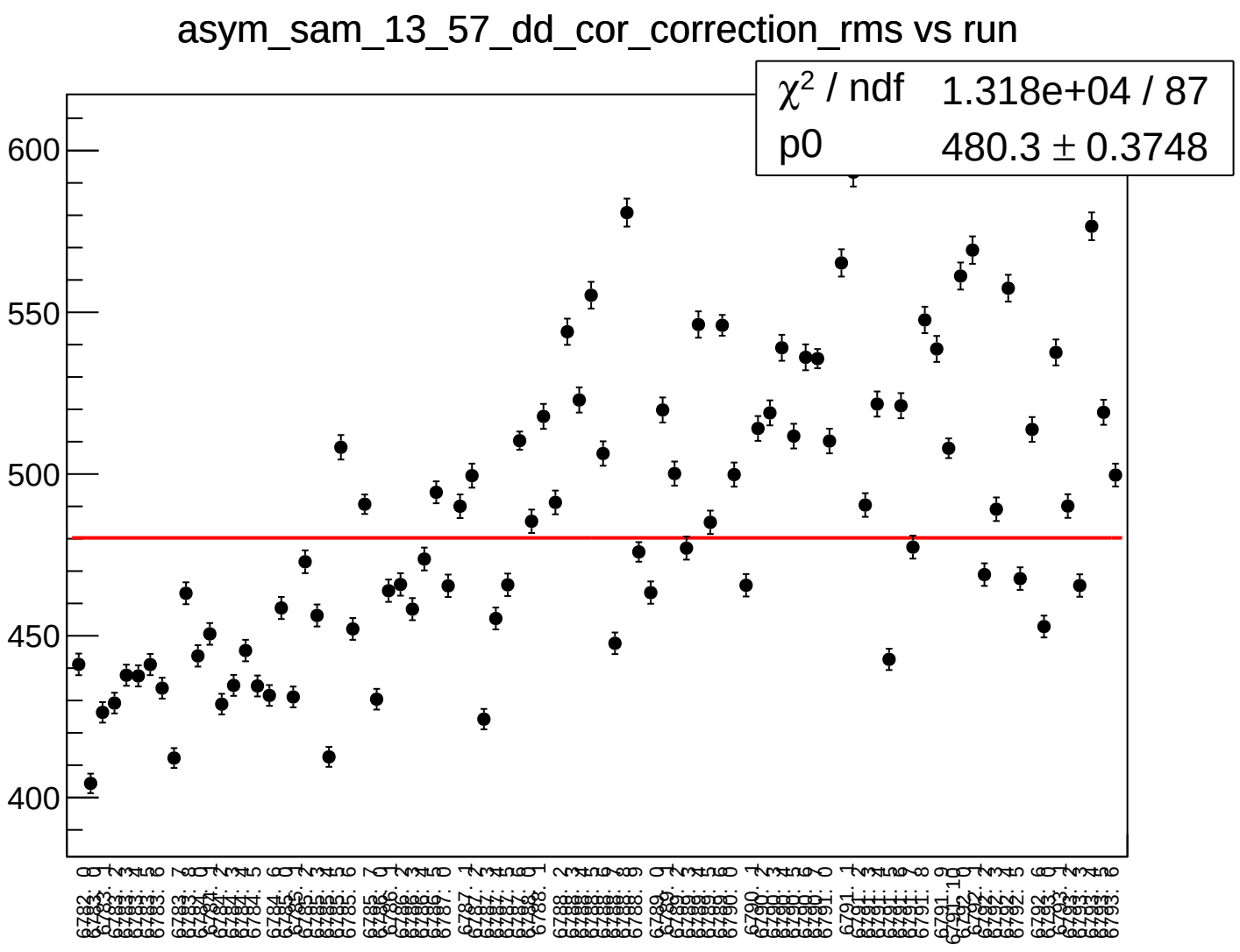

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 70.01 / 87
p0 −18 ± 71.26
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 105.6
Std Dev 161.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

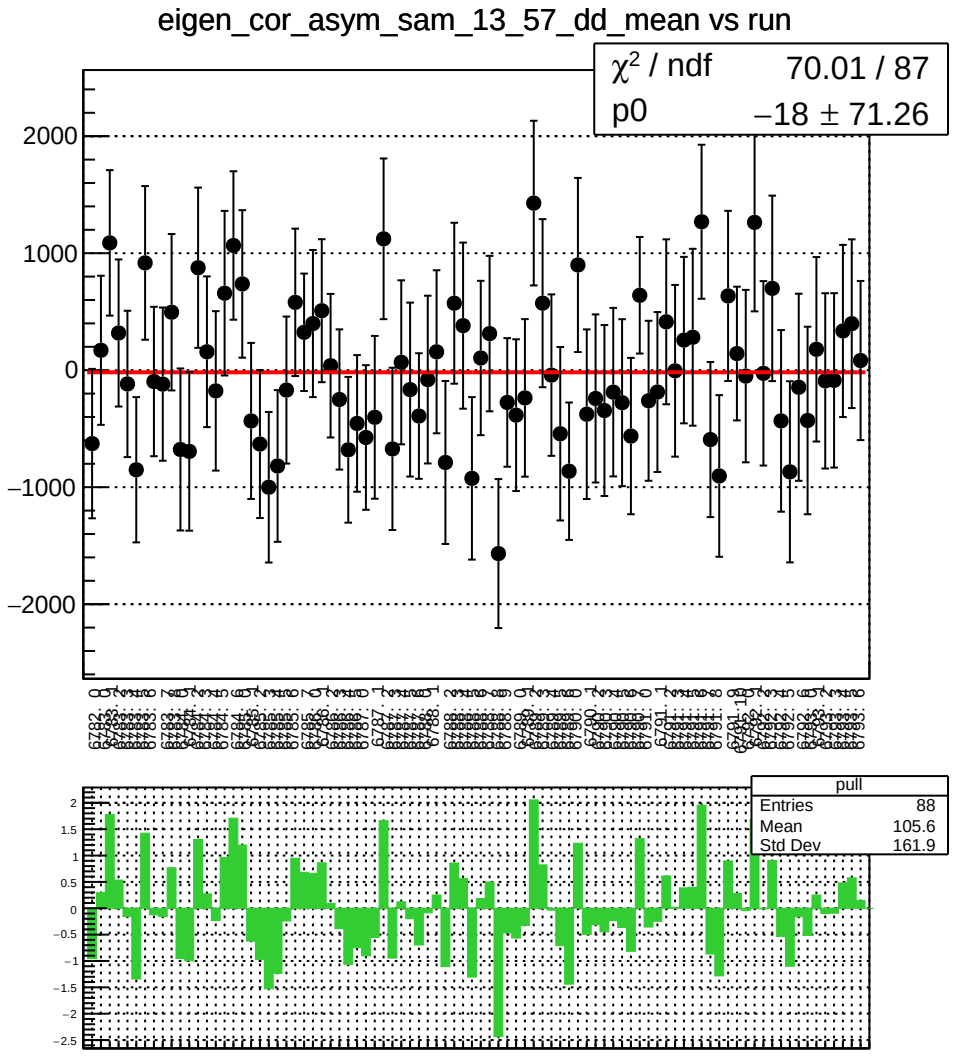

pull1D
Entries 88
Mean 0.002284
Std Dev 0.8919
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

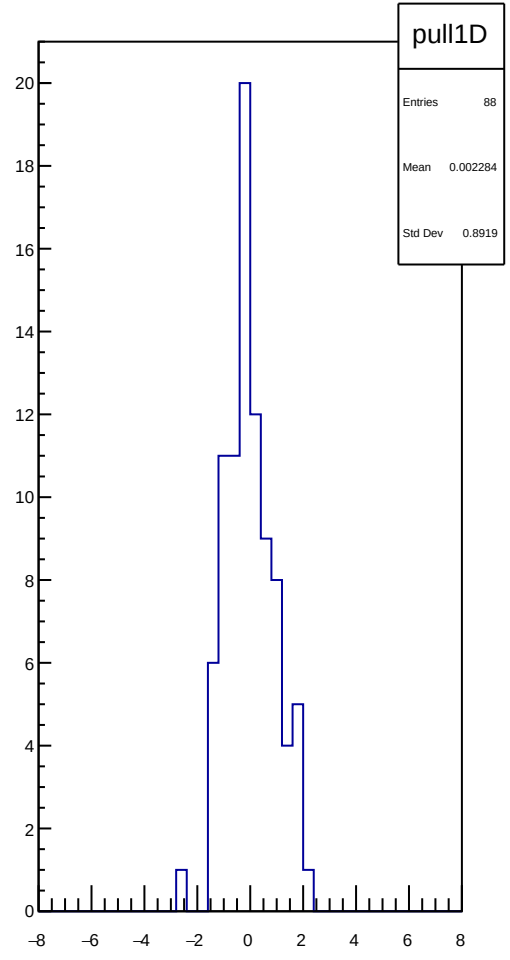

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 8522 / 87
p0 64.66 ± 0.05039
75
70
65
60
55

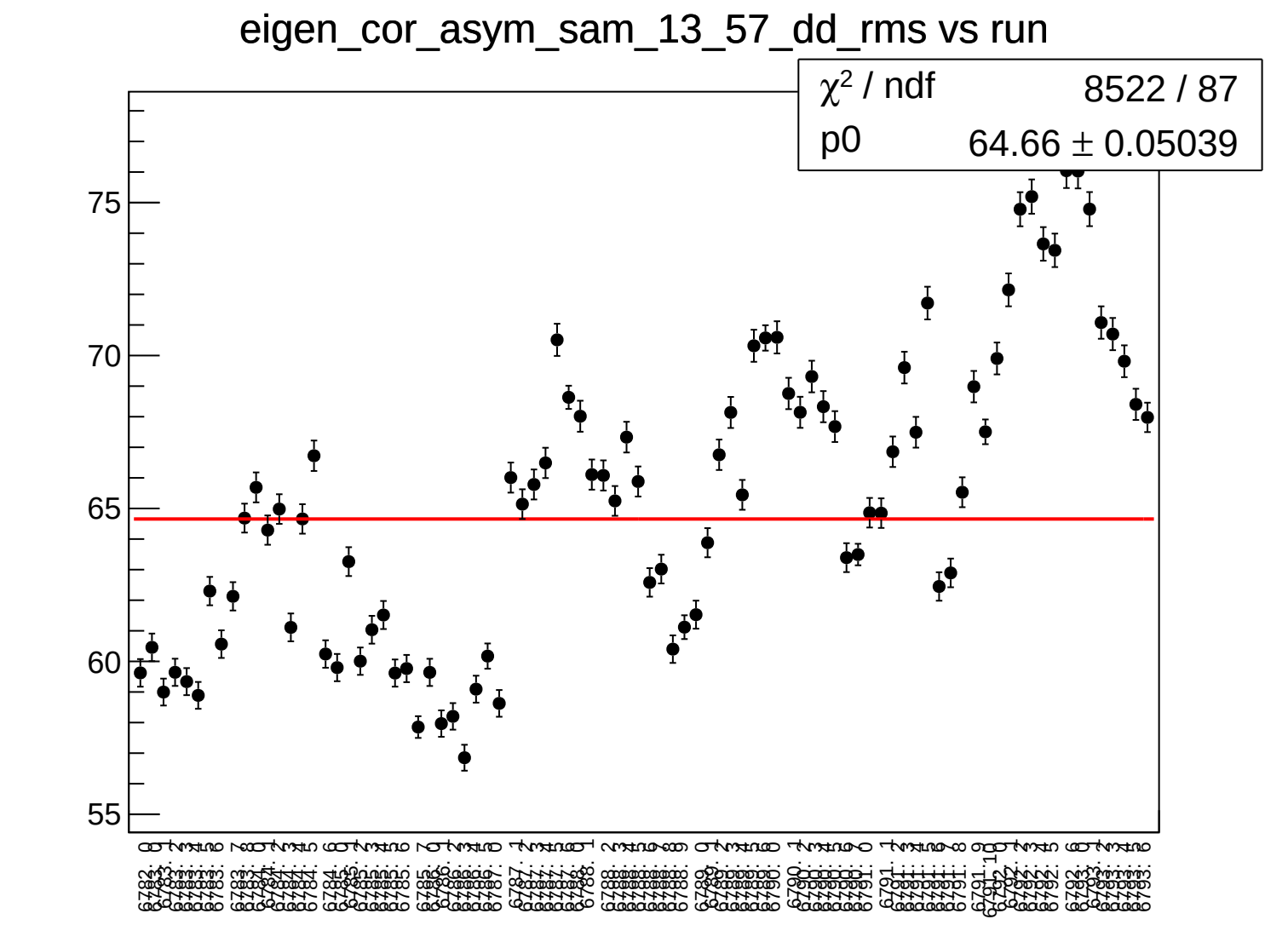

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 81.95 / 87
p0 −713.7 ± 530.1
pull
Entries 88
Mean 72.17
Std Dev 0

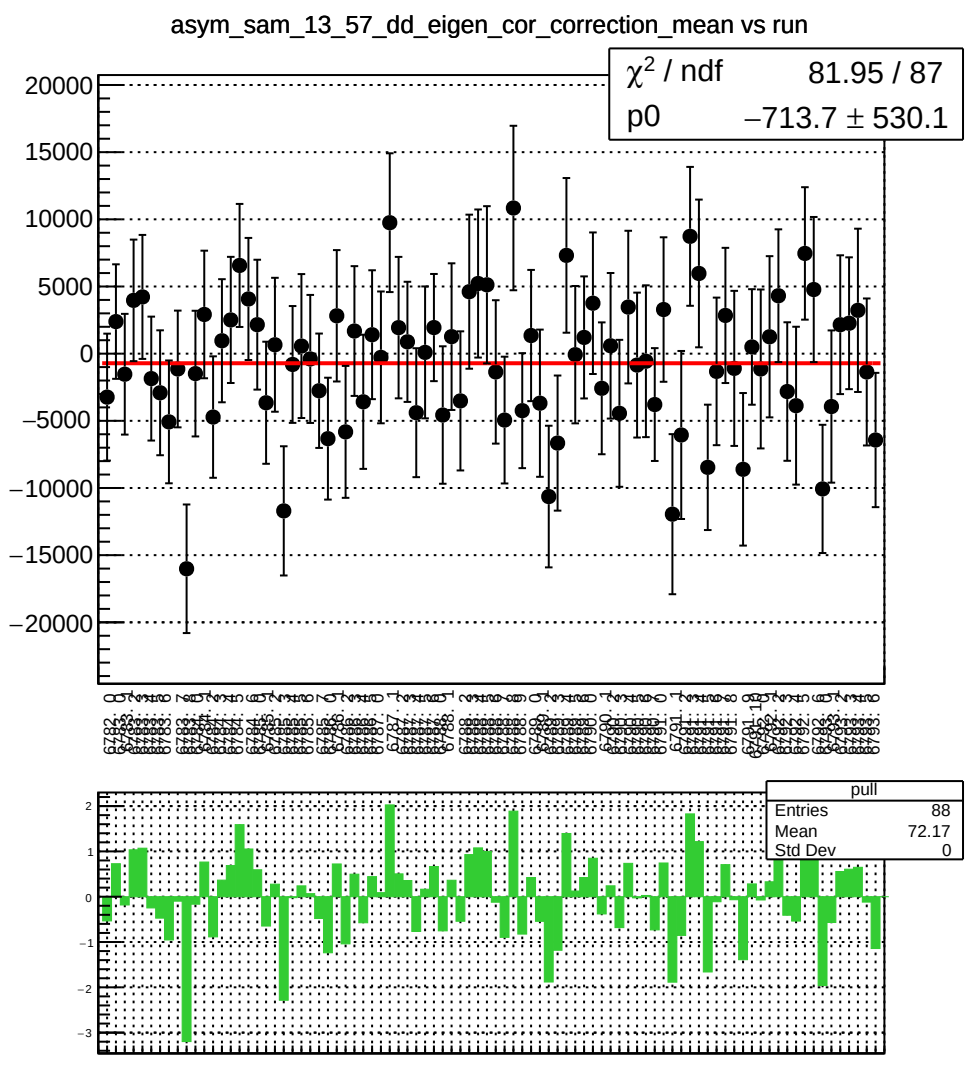

pull1D
Entries 88
Mean 0.01002
Std Dev 0.9649

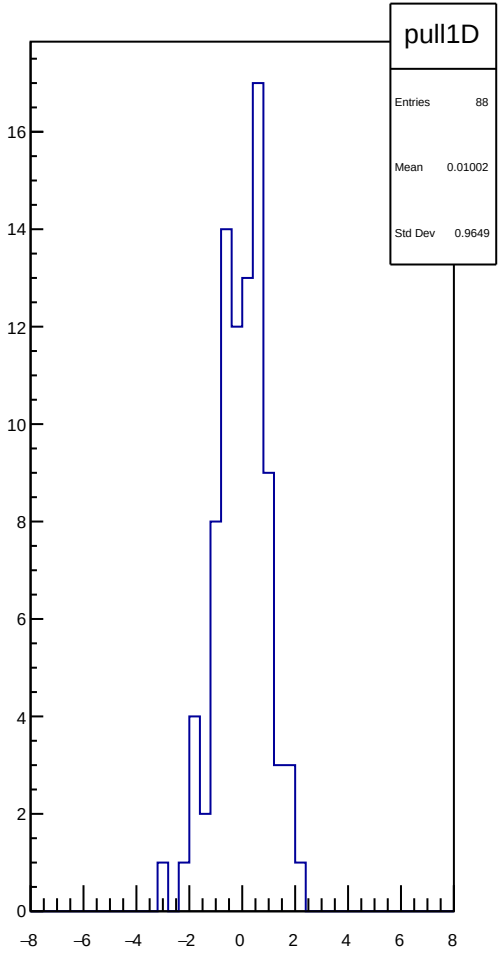

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.318e+04 / 87
p0 480.3 ± 0.3748
600
550
500
450
400

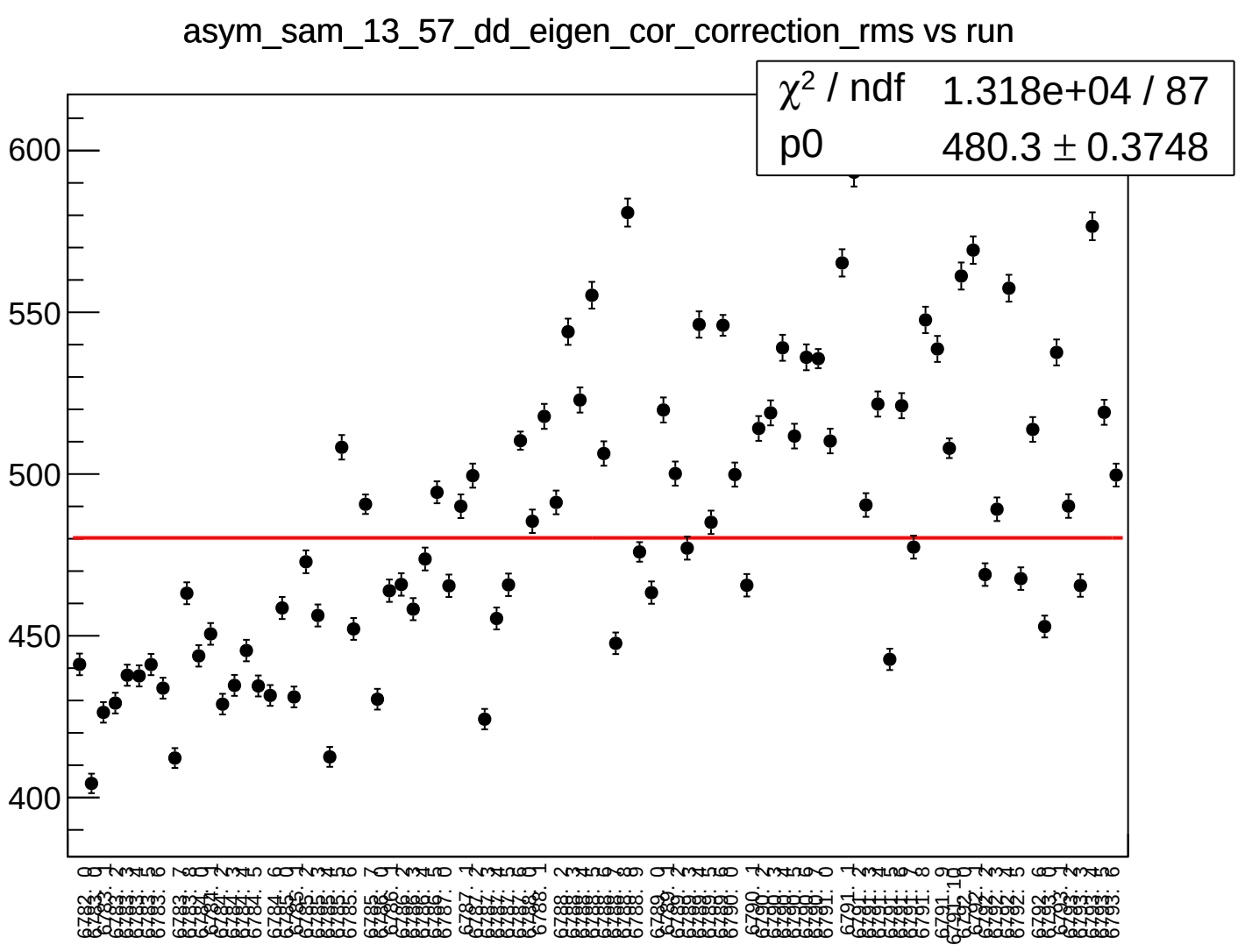

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 70.01 / 87
p0 −18 ± 71.26
pull
Entries 88
Mean 105.6
Std Dev 161.9

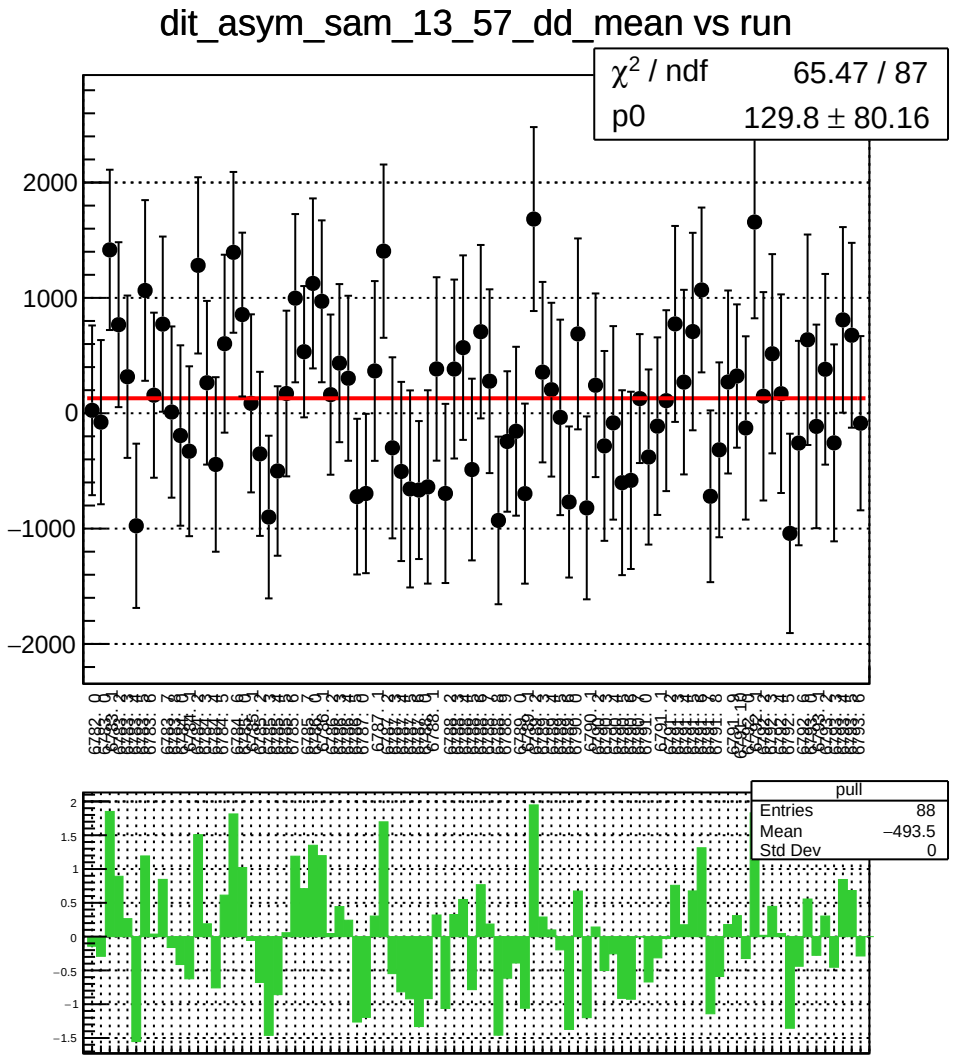

pull1D
Entries 88
Mean 0.002284
Std Dev 0.8919

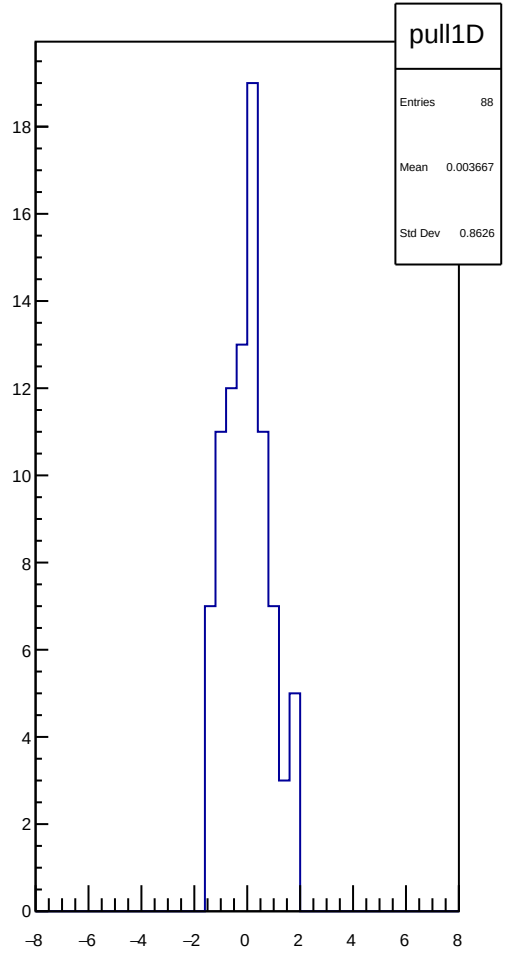

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 8522 / 87
p0 64.66 ± 0.05039
75
70
65
60
55

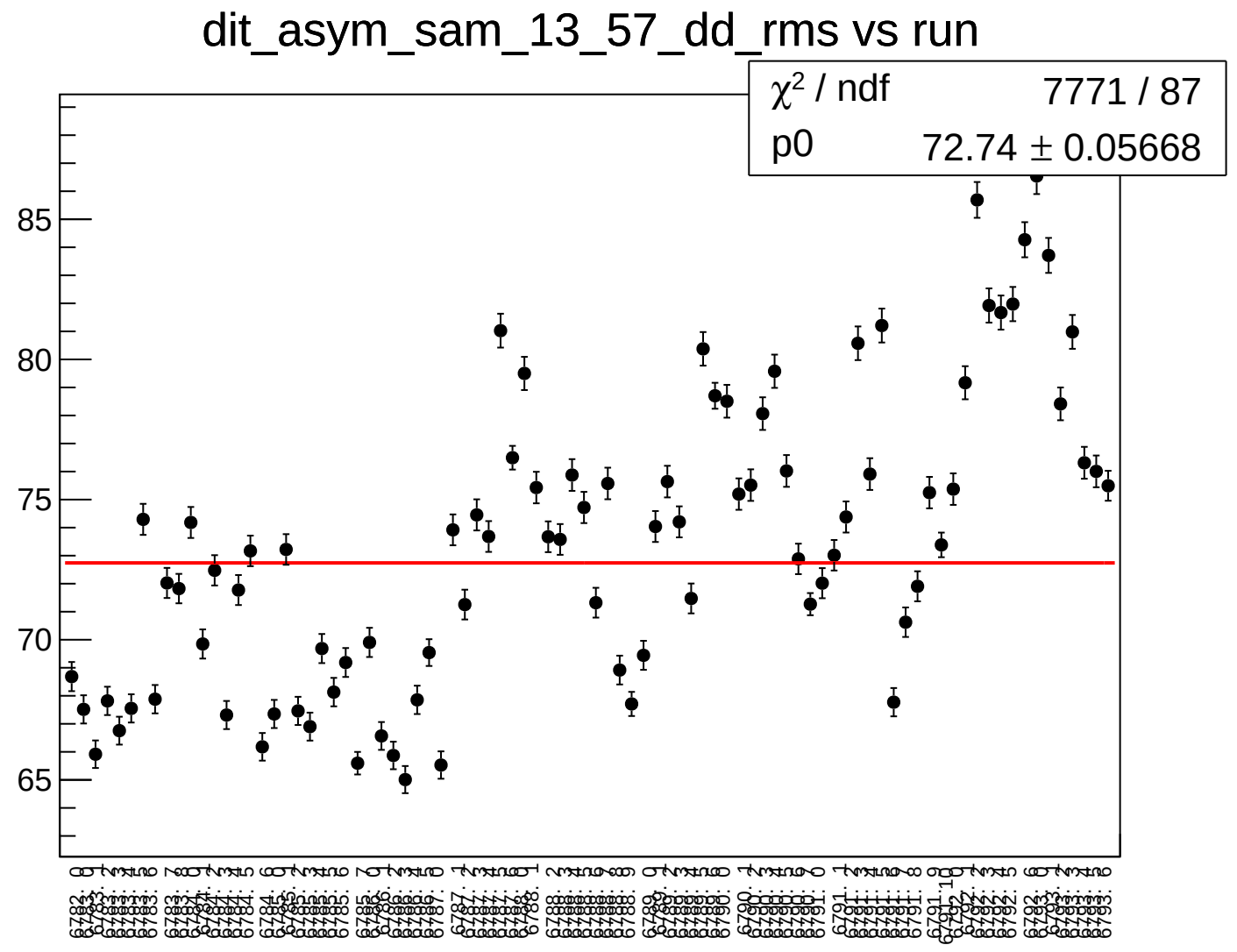

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.95 / 87
p0 −713.7 ± 530.1
pull
Entries 88
Mean 72.17
Std Dev 0

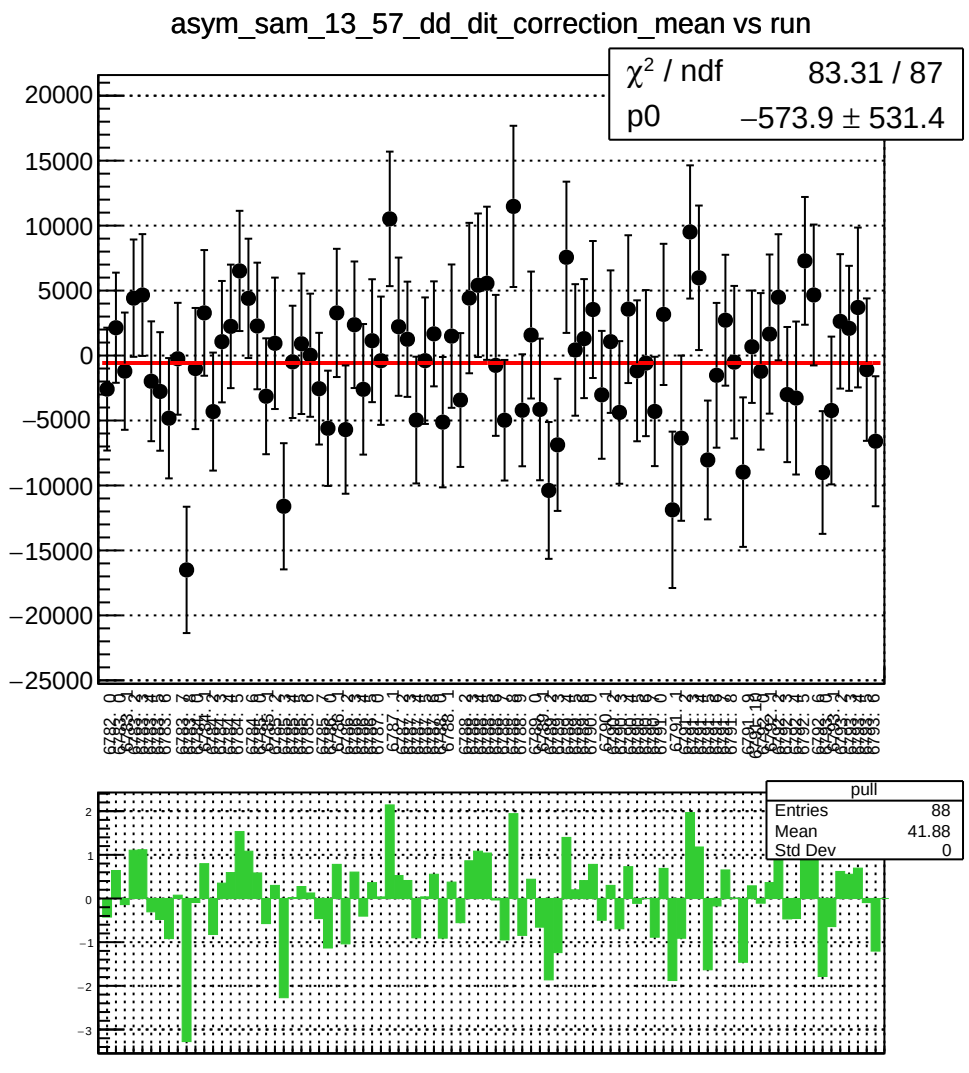

pull1D
Entries 88
Mean 0.01002
Std Dev 0.9649

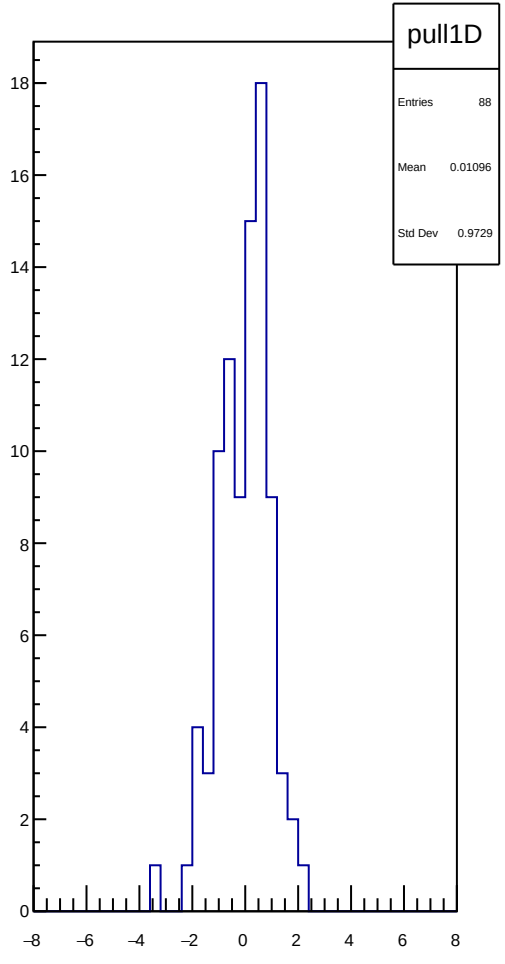

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.318e+04 / 87
p0 480.3 ± 0.3748
600
550
500
450
400

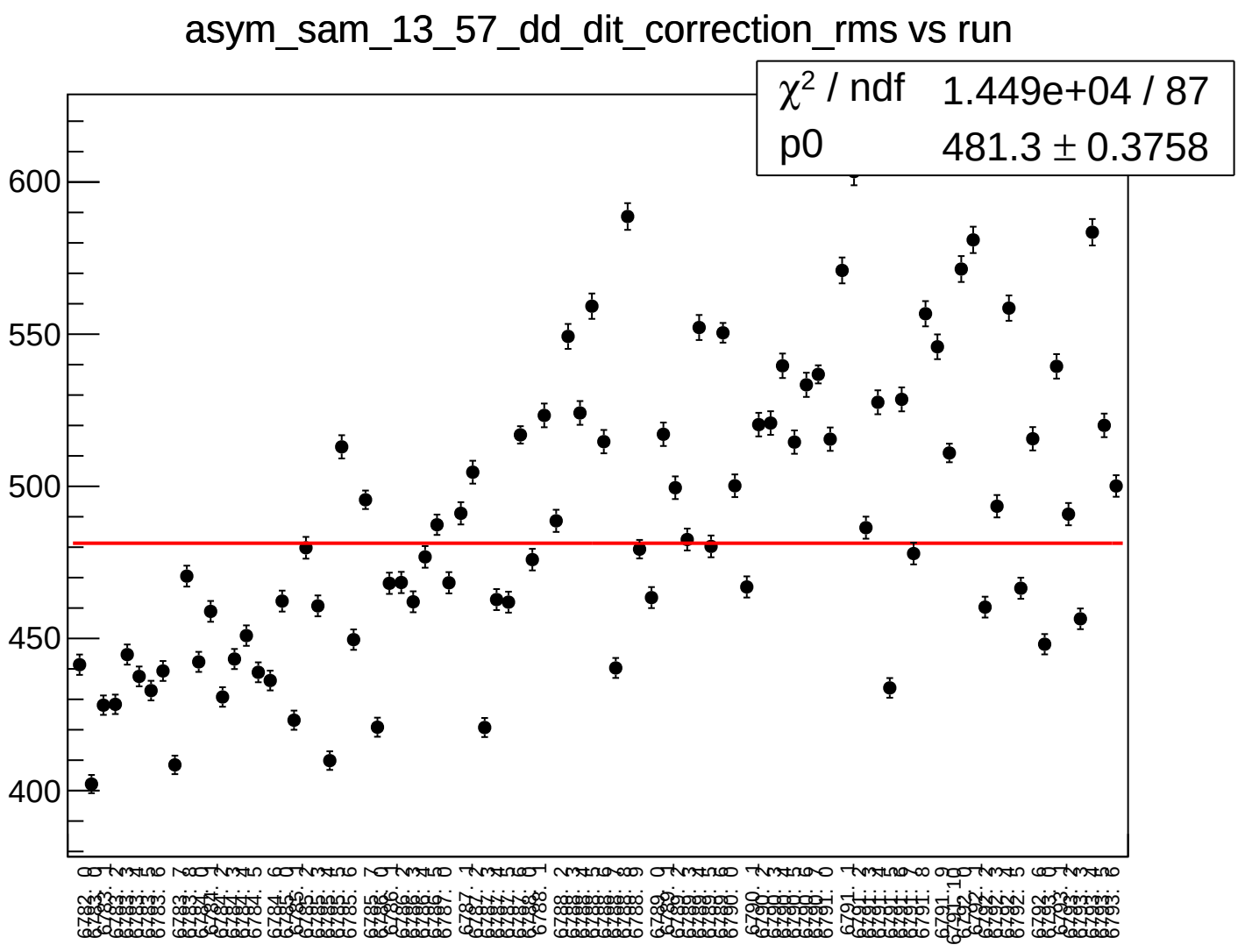

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 65.47 / 87
p0 129.8 ± 80.16
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −493.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

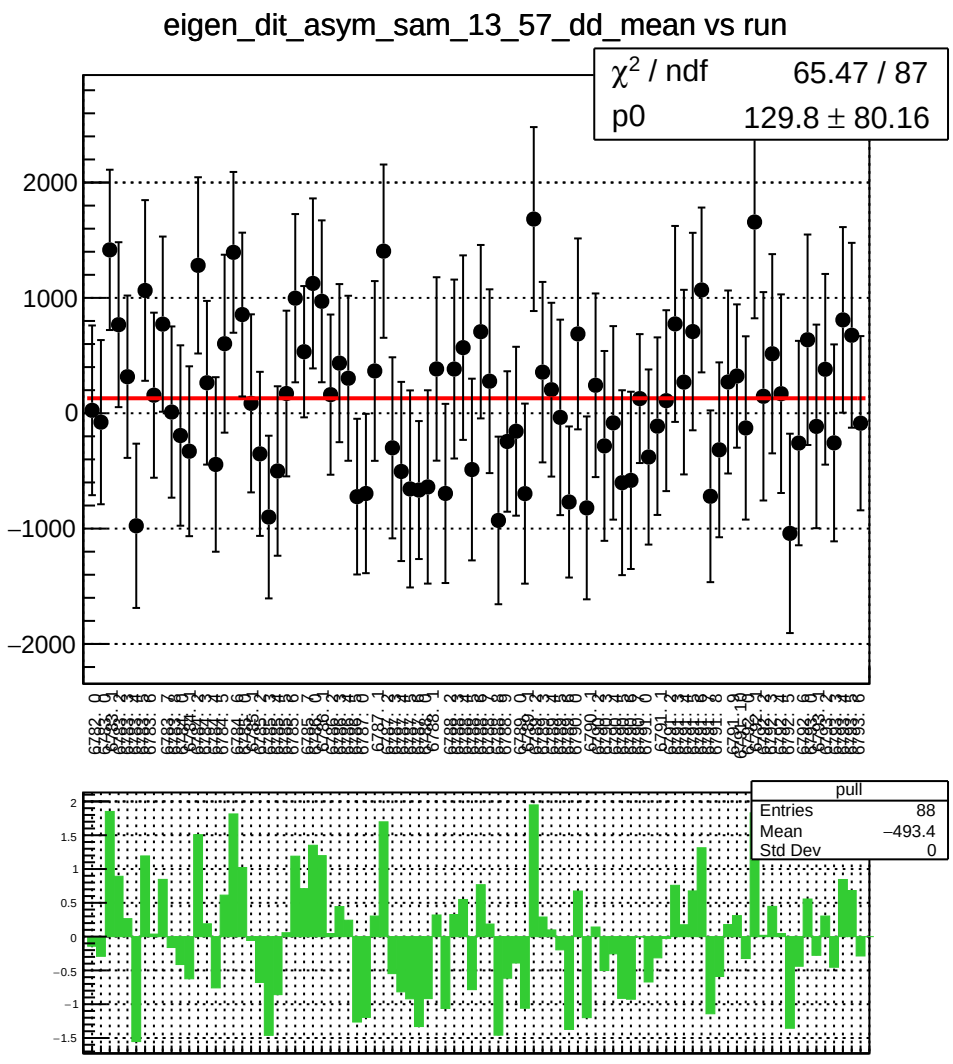

pull1D
Entries 88
Mean 0.003667
Std Dev 0.8626
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

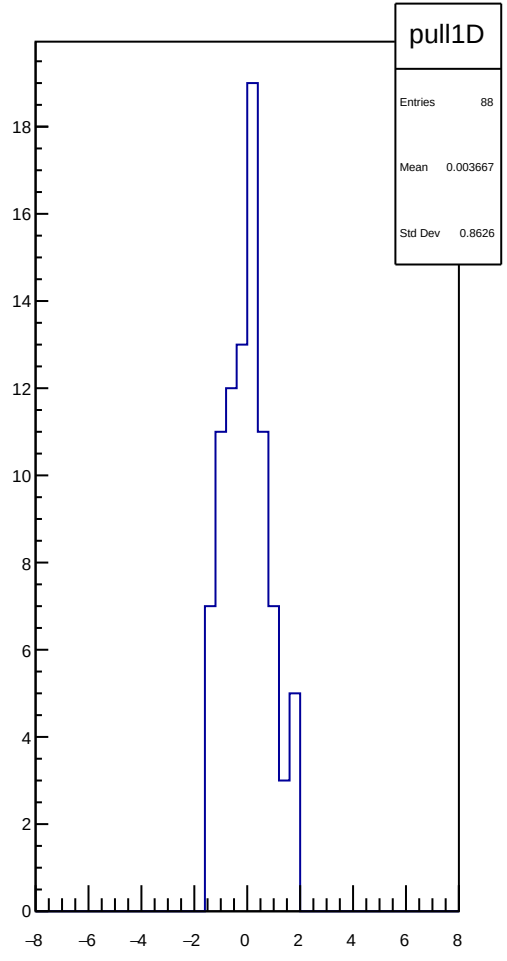

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7771 / 87
p0 72.74 ± 0.05668
85
80
75
70
65

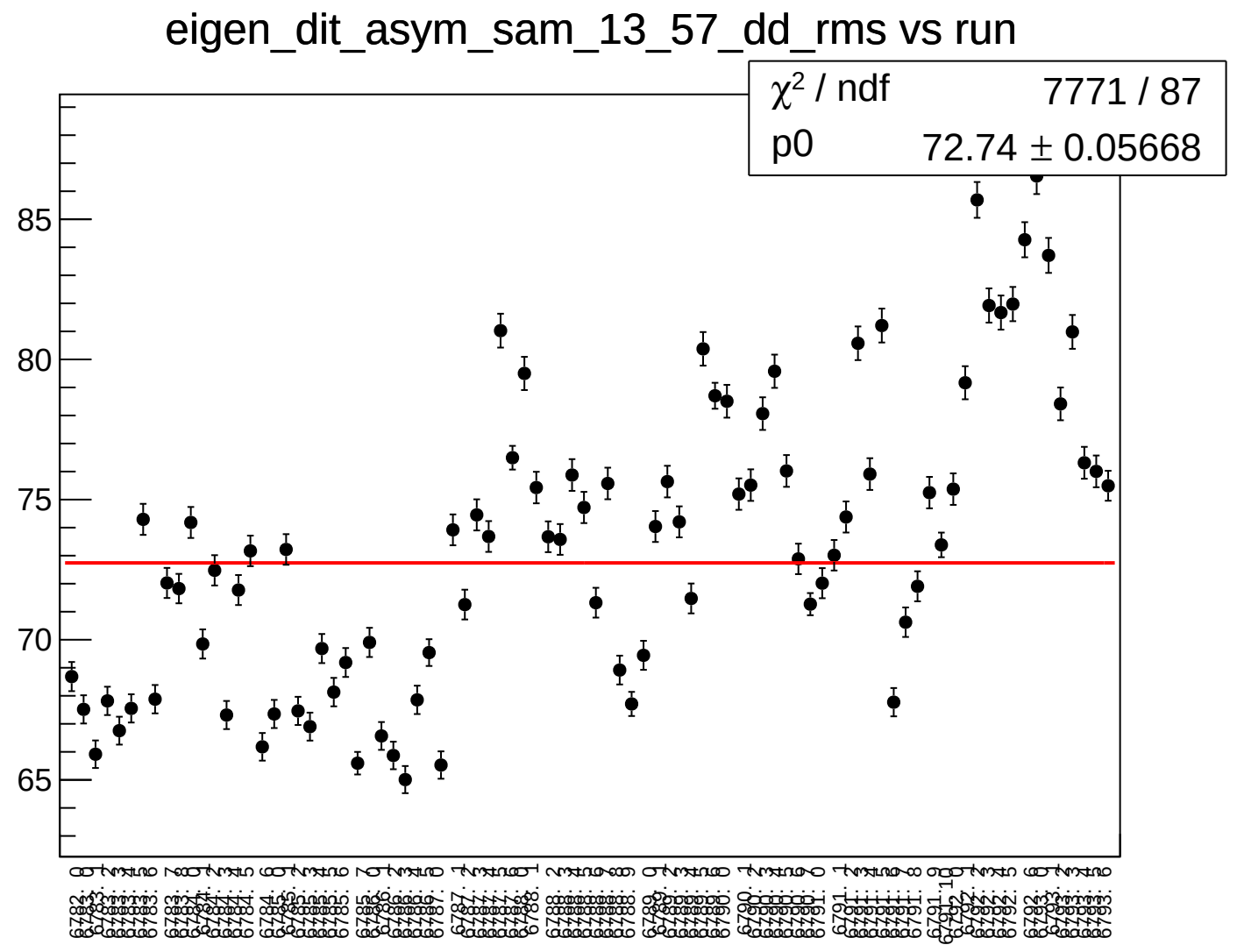

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 83.31 / 87
p0 −573.9 ± 531.4
pull
Entries 88
Mean 41.88
Std Dev 0

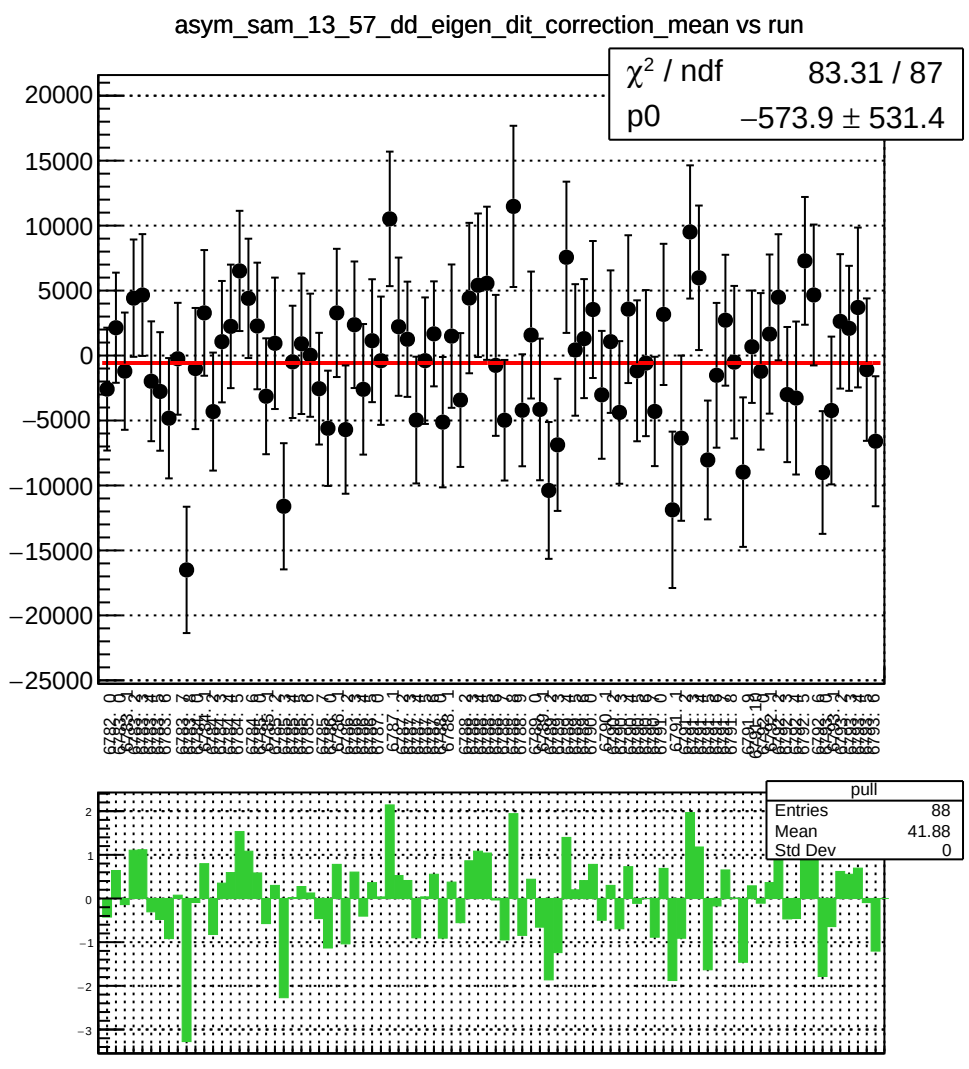

pull1D
Entries 88
Mean 0.01096
Std Dev 0.9729

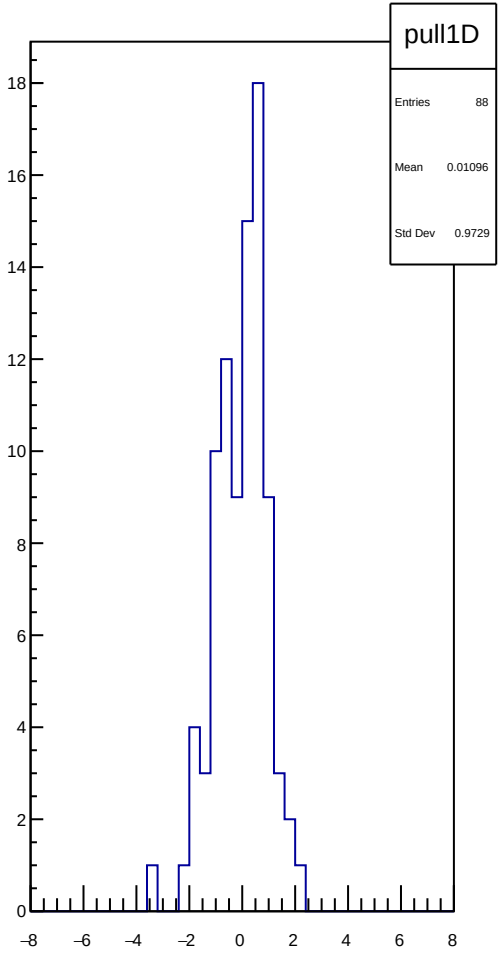

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.449e+04 / 87
p0 481.3 ± 0.3758
600
550
500
450
400

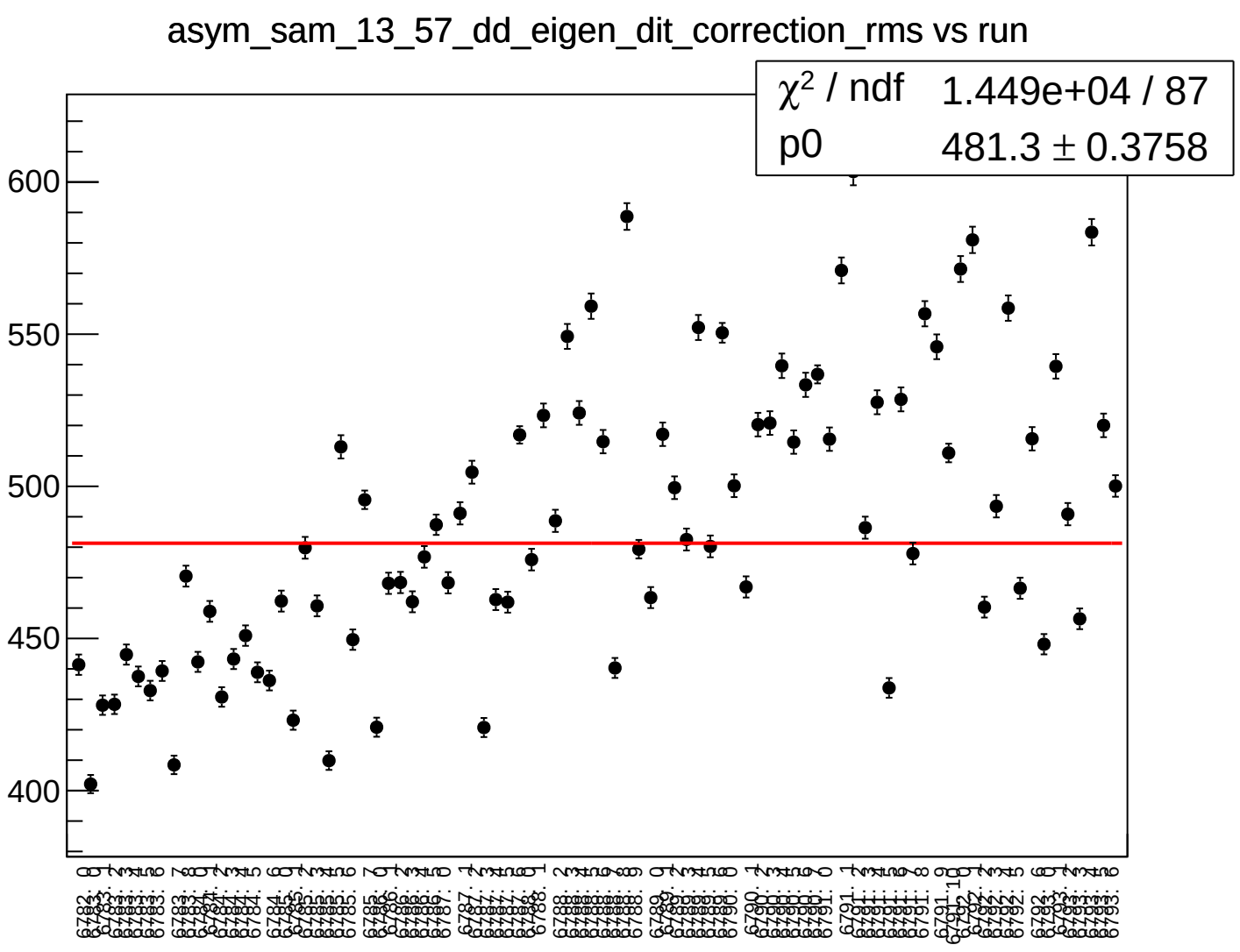

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 65.47 / 87
p0 129.8 ± 80.16
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −493.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

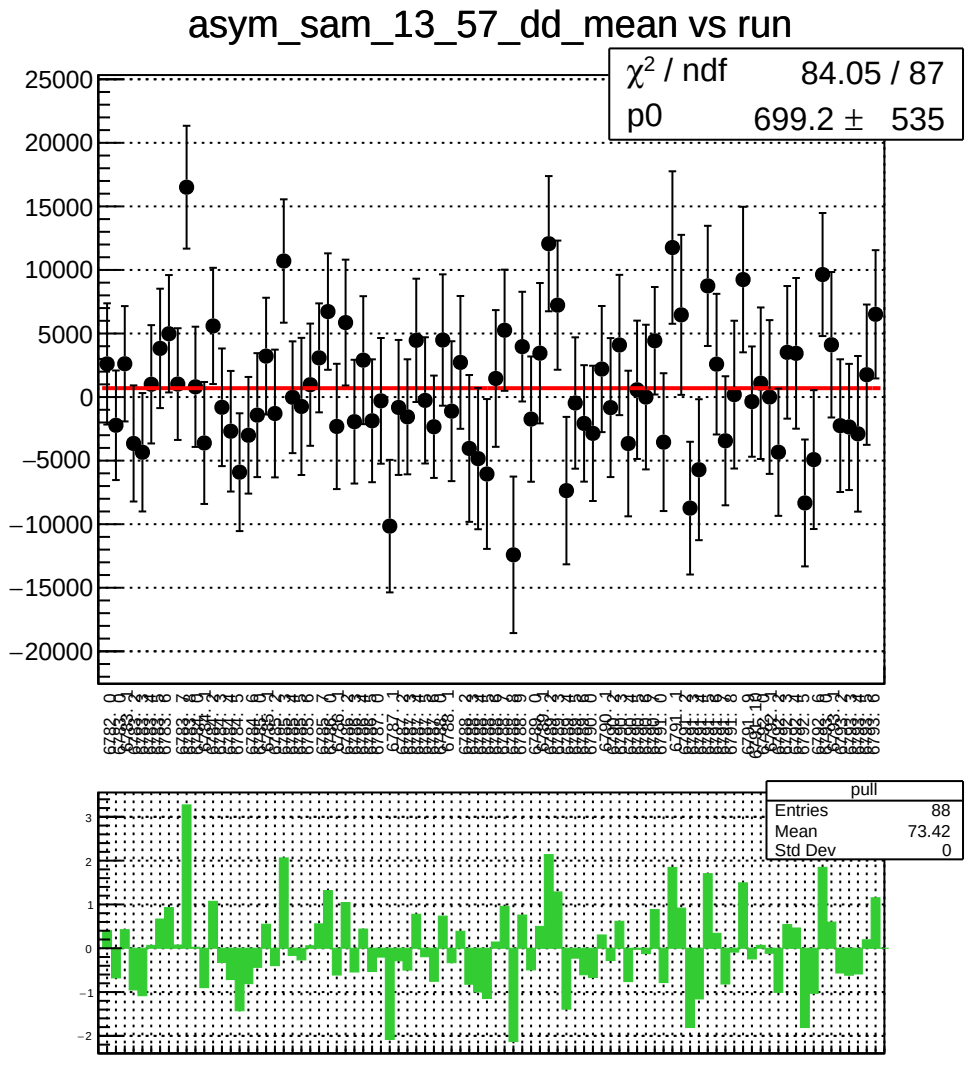

pull1D
Entries 88
Mean 0.003667
Std Dev 0.8626
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

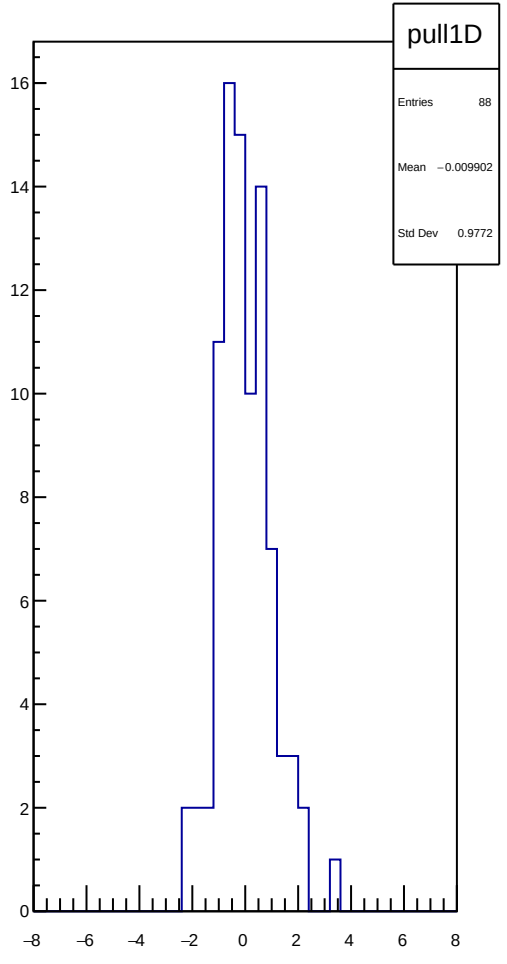

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7771 / 87
p0 72.74 ± 0.05668
85
80
75
70
65

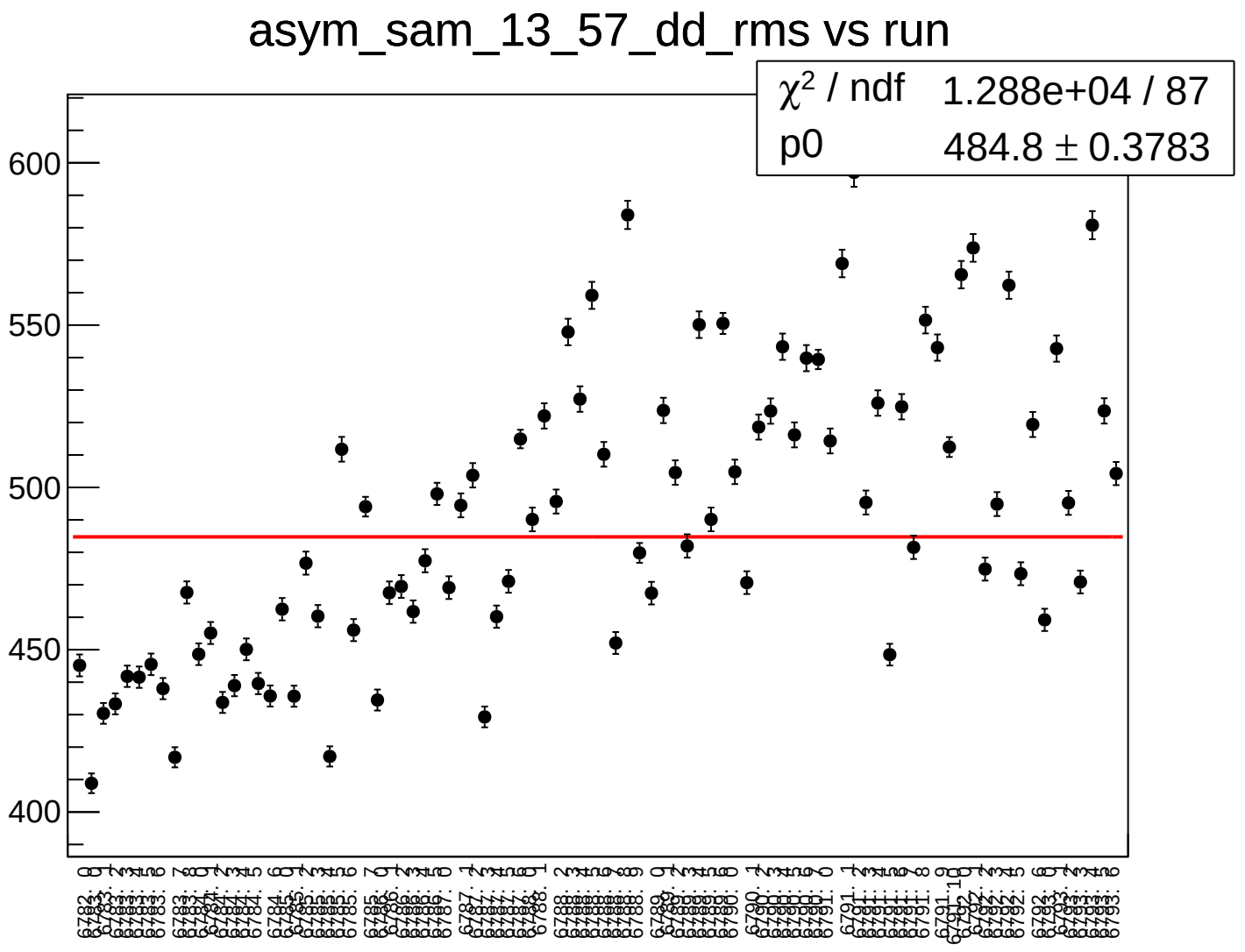

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.31 / 87
p0 −573.9 ± 531.4
pull
Entries 88
Mean 41.88
Std Dev 0

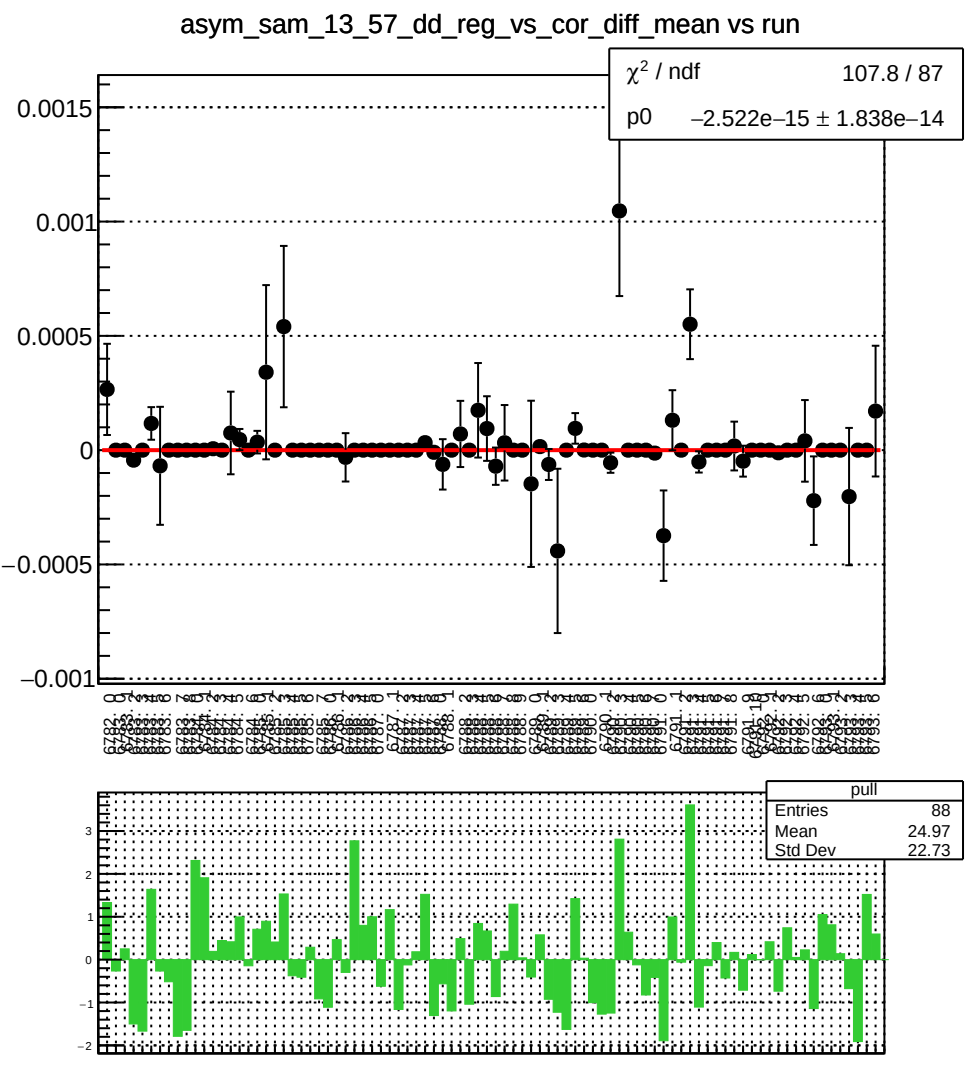

pull1D
Entries 88
Mean 0.01096
Std Dev 0.9729

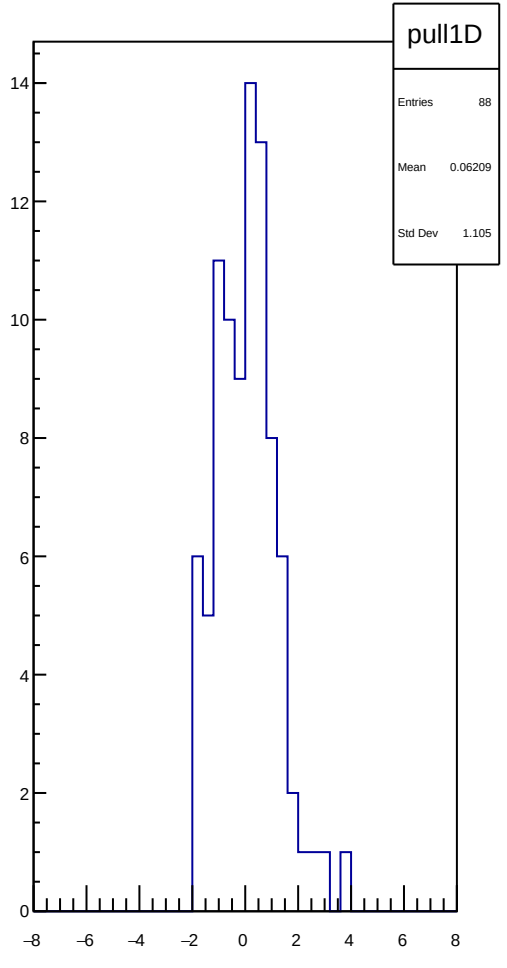

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.449e+04 / 87
p0 481.3 ± 0.3758
600
550
500
450
400

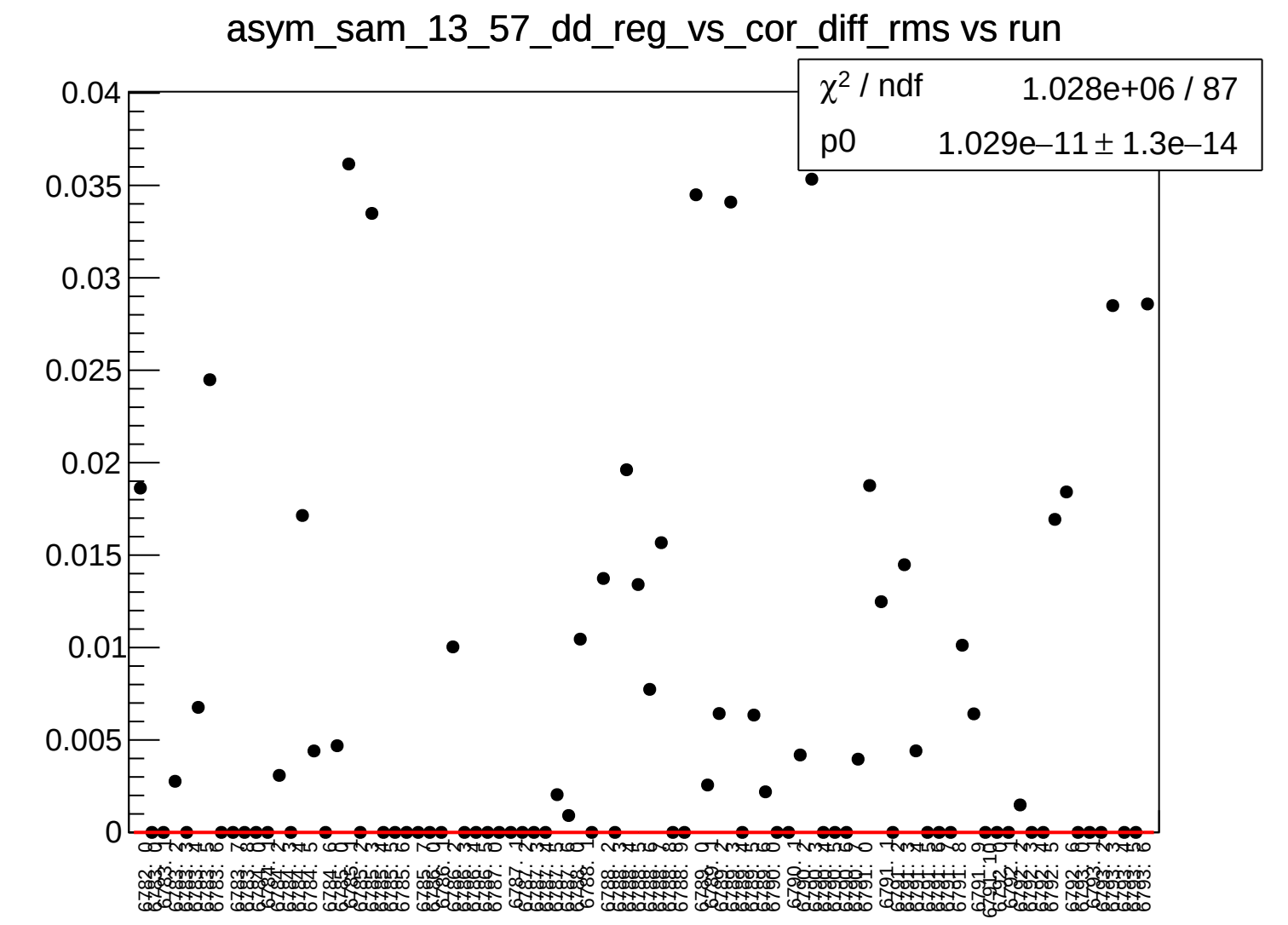

asym_sam_13_57_dd_mean vs run
χ² / ndf 84.05 / 87
p0 699.2 ± 535
pull
Entries 88
Mean 73.42
Std Dev 0

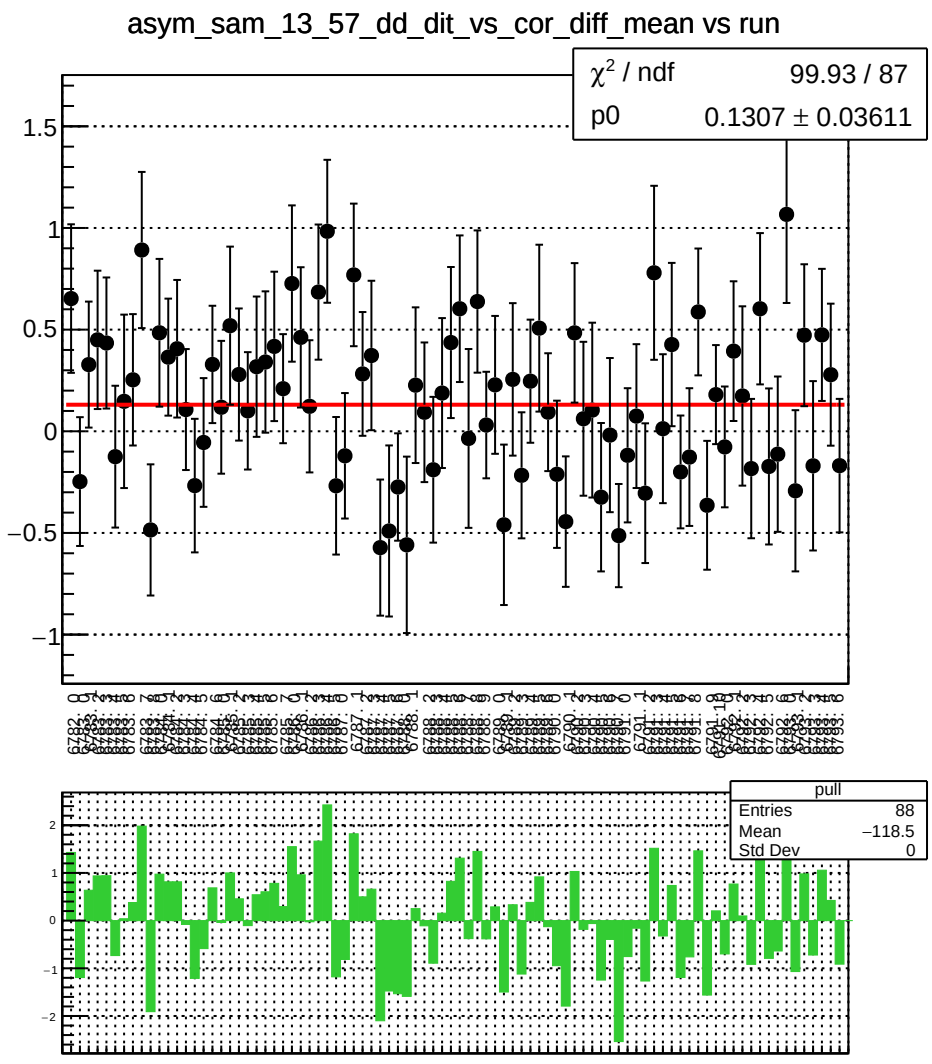

pull1D
Entries 88
Mean −0.009902
Std Dev 0.9772

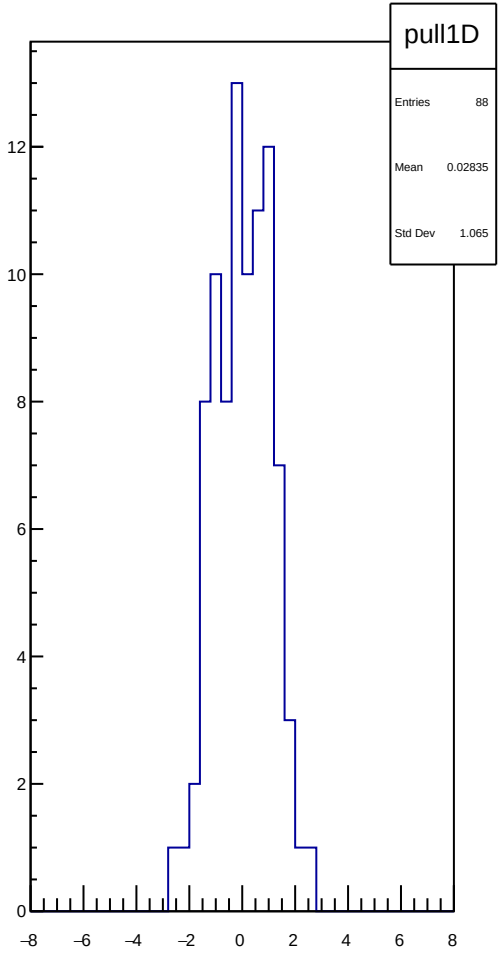

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.288e+04 / 87
p0 484.8 ± 0.3783
600
550
500
450
400

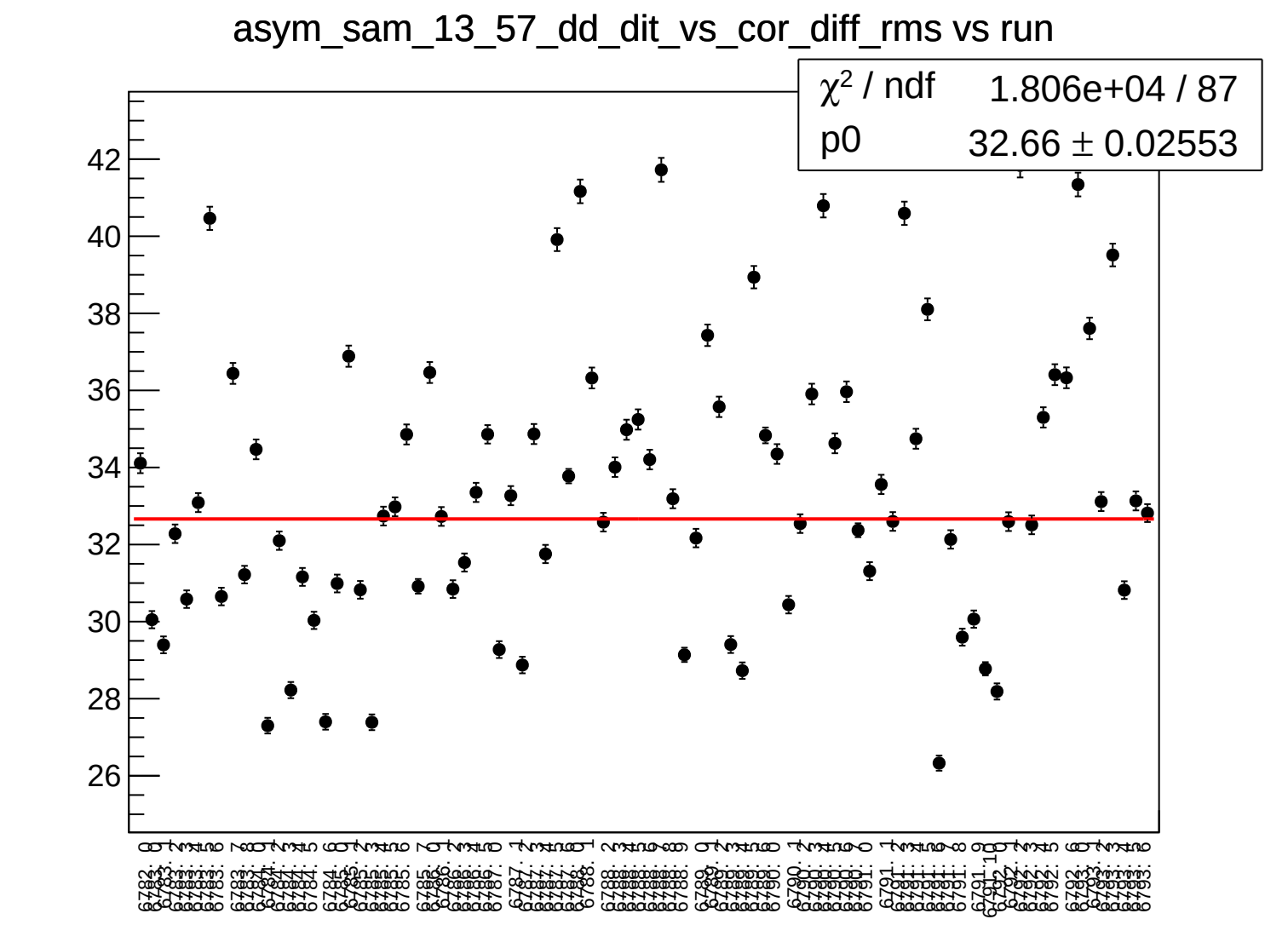

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 87
p0 −2.522e−15 ± 1.838e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 24.97
Std Dev 22.73
3
2
1
0
−1
−2

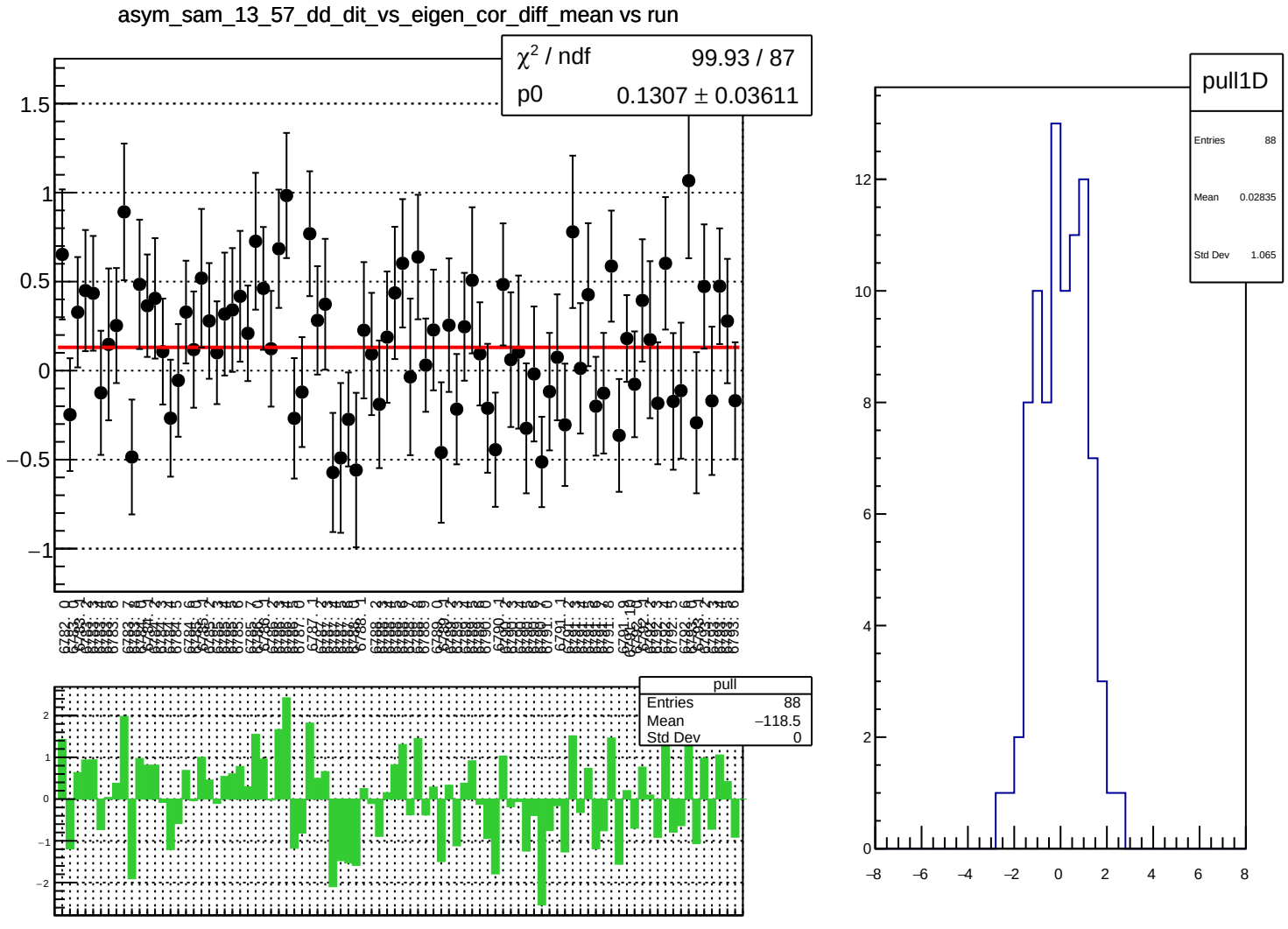

pull1D
Entries 88
Mean 0.06209
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

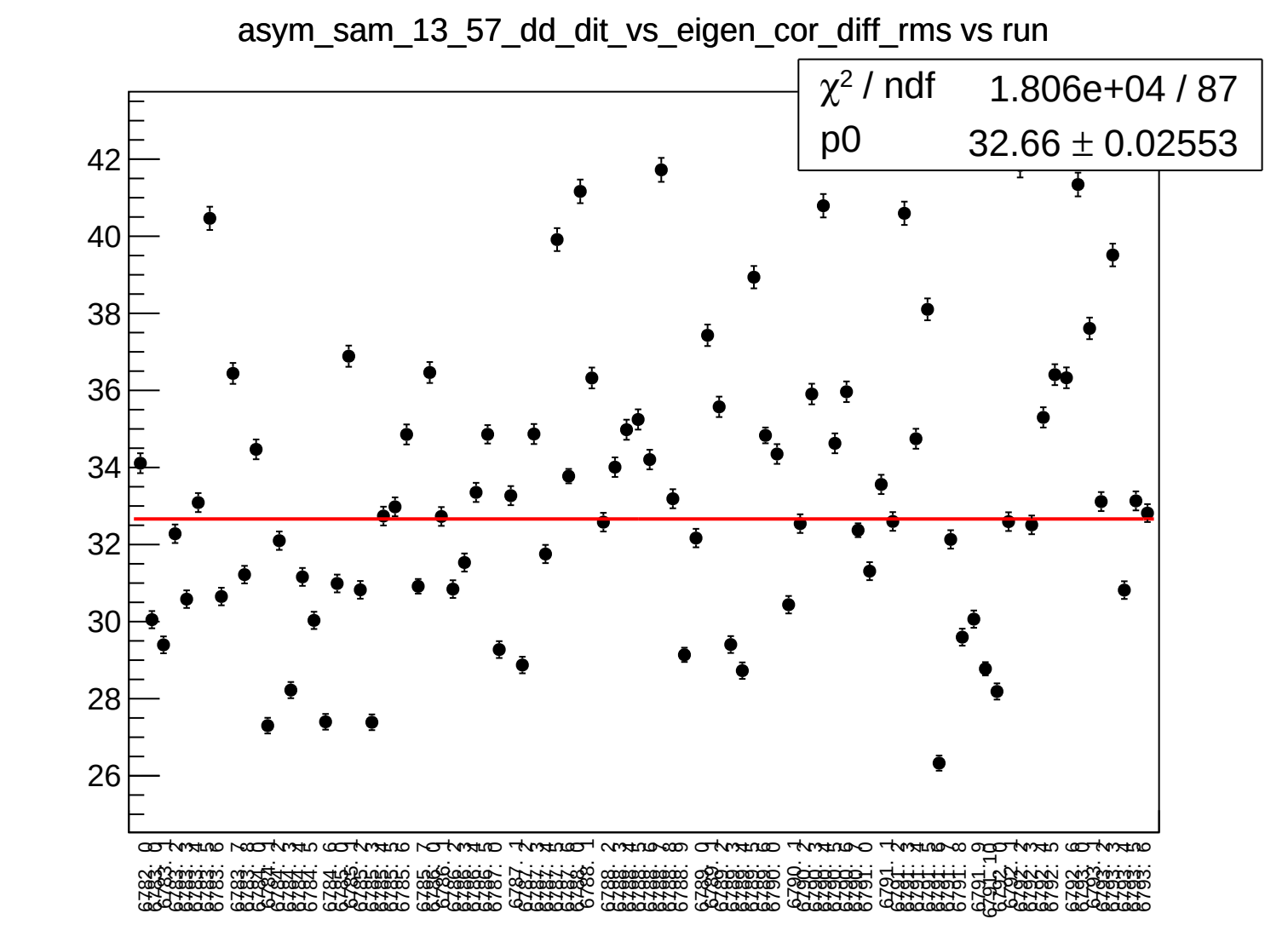

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 87
p0 1.029e−11 ± 1.3e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

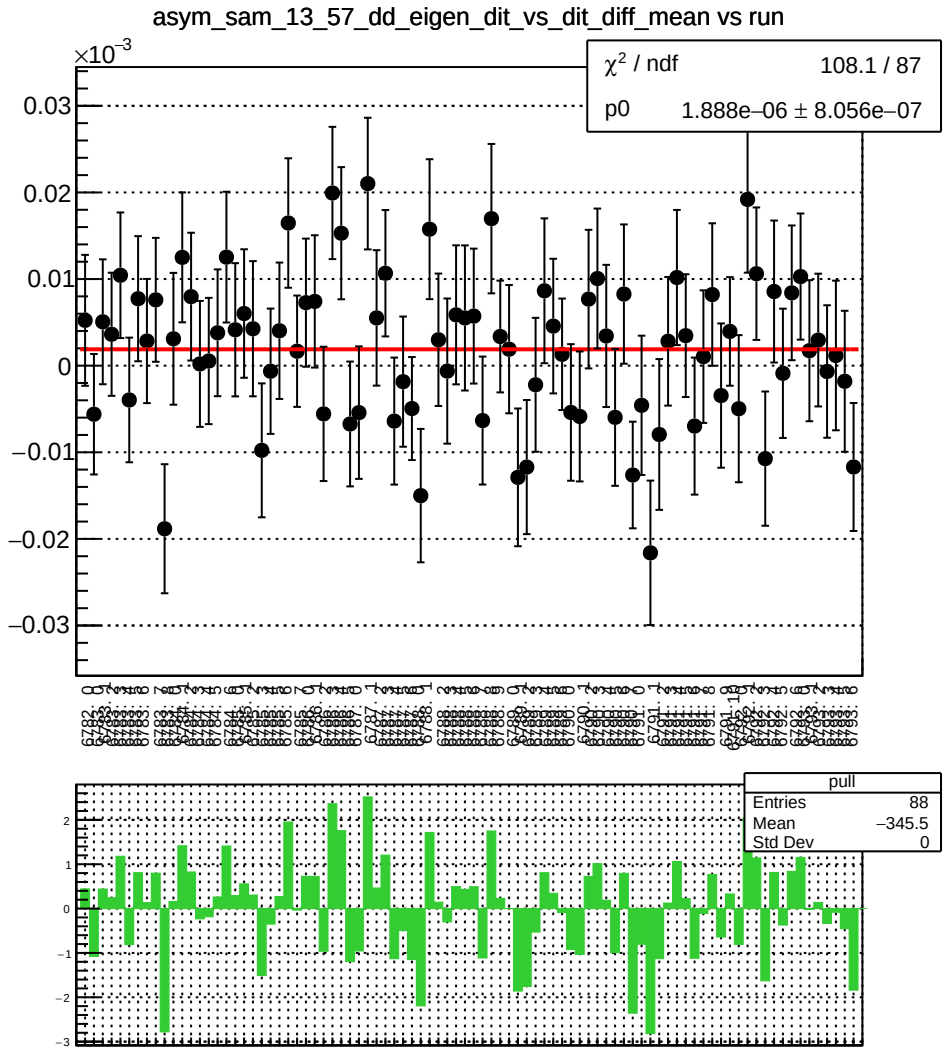

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.93 / 87
p0 0.1307 ± 0.03611
pull
Entries 88
Mean −118.5
Std Dev 0

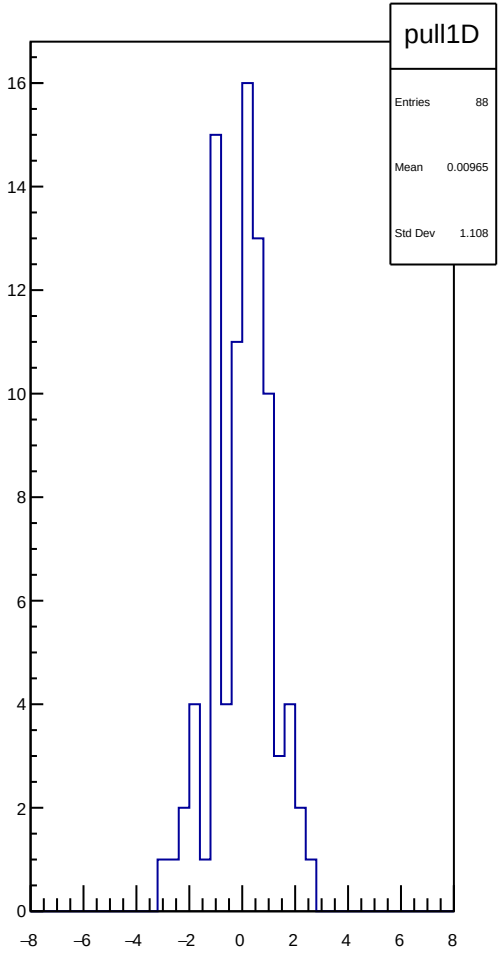

pull1D
Entries 88
Mean 0.02835
Std Dev 1.065

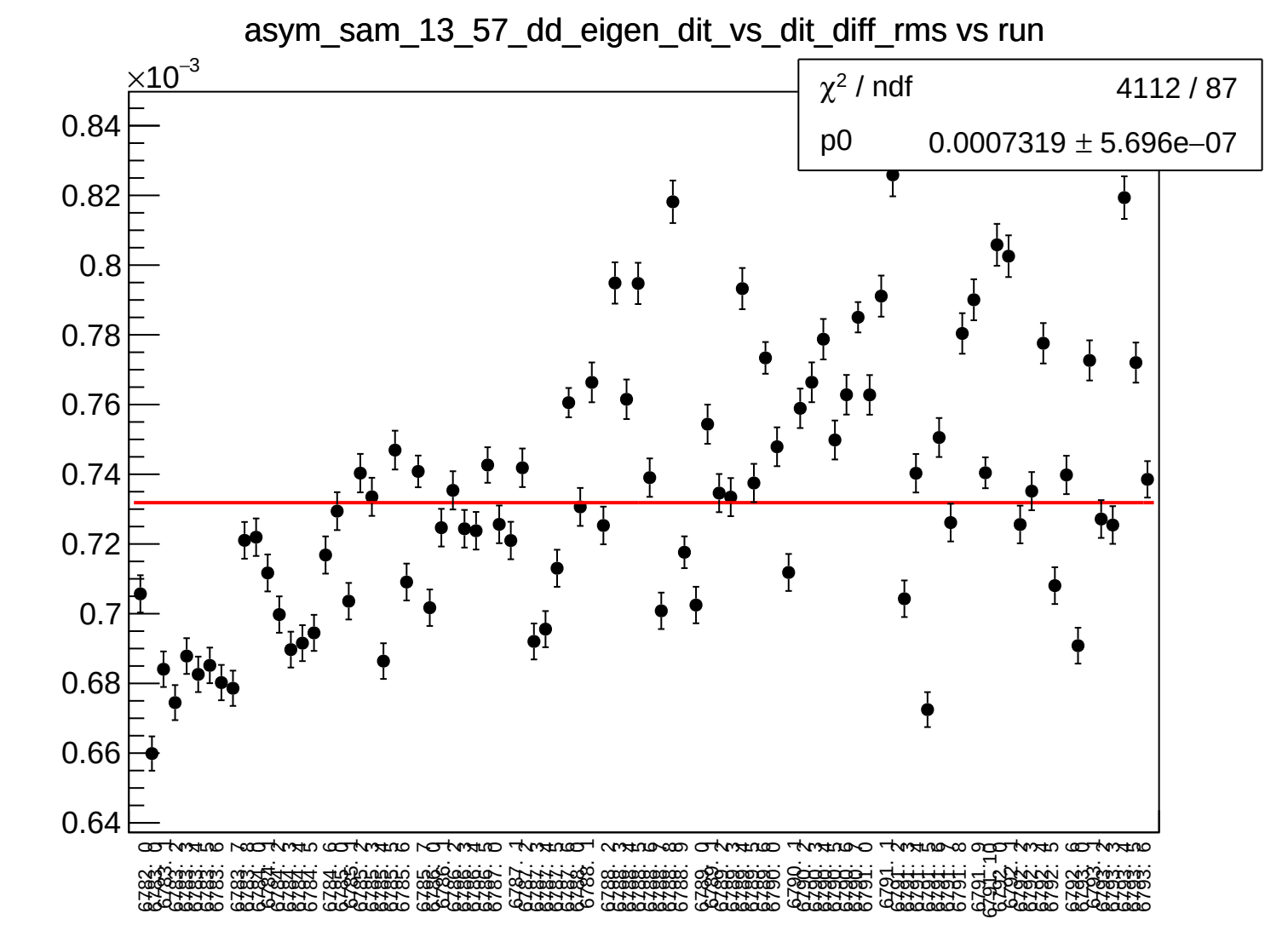

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.806e+04 / 87
p0 32.66 ± 0.02553
42
40
38
36
34
32
30
28
26

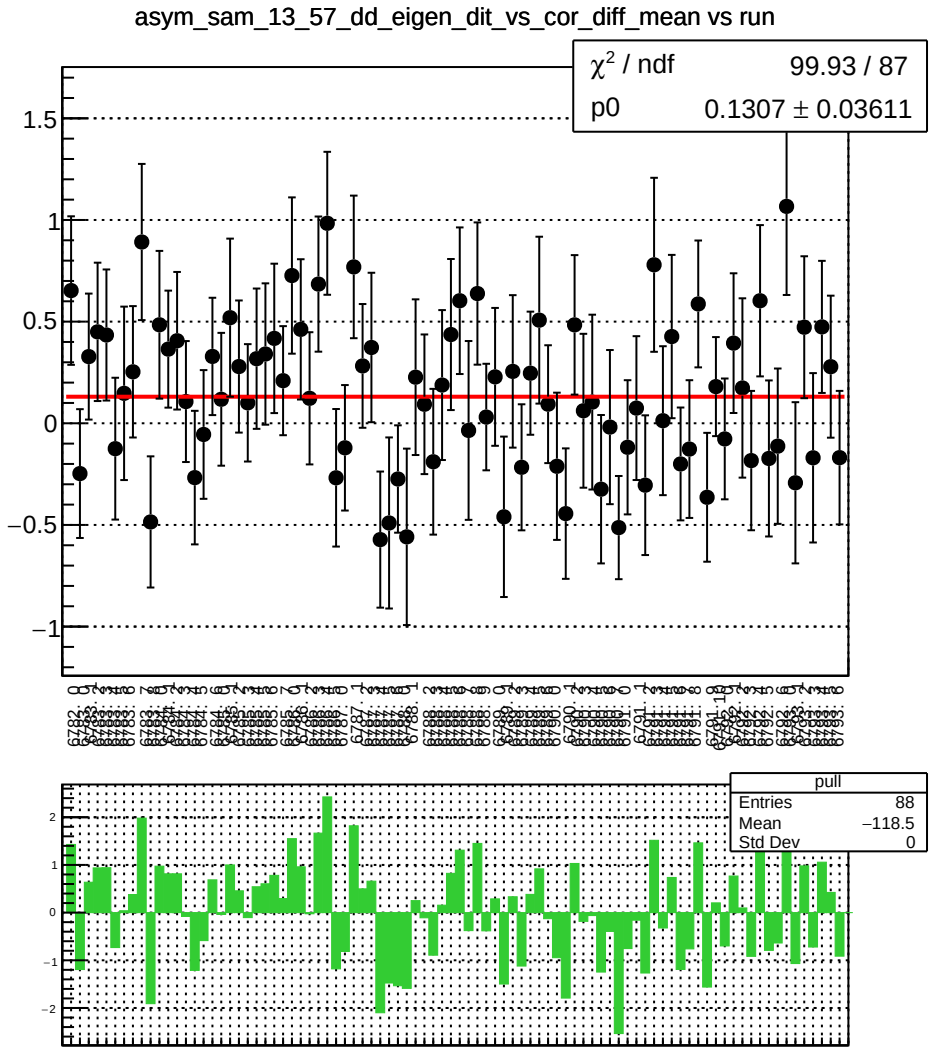

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.93 / 87
p0 0.1307 ± 0.03611
pull
Entries 88
Mean −118.5
Std Dev 0
pull1D
Entries 88
Mean 0.02835
Std Dev 1.065

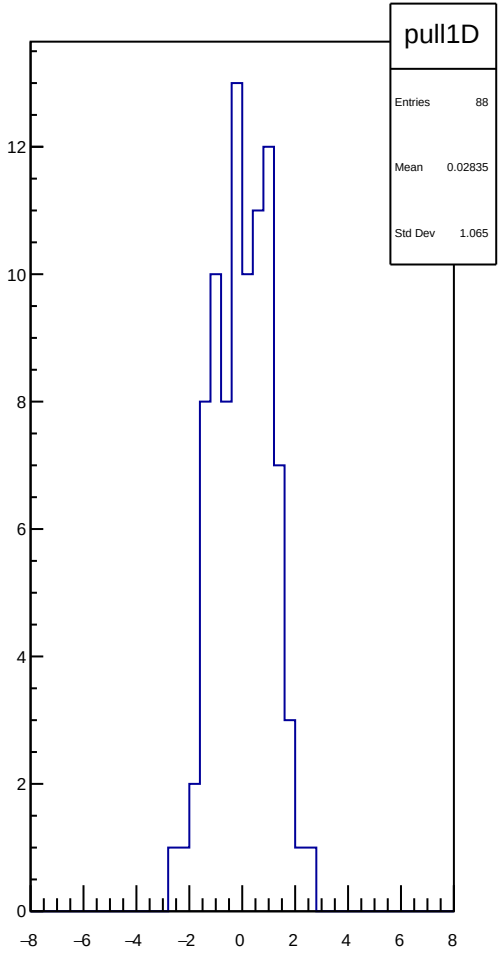

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.806e+04 / 87
p0 32.66 ± 0.02553
42
40
38
36
34
32
30
28
26

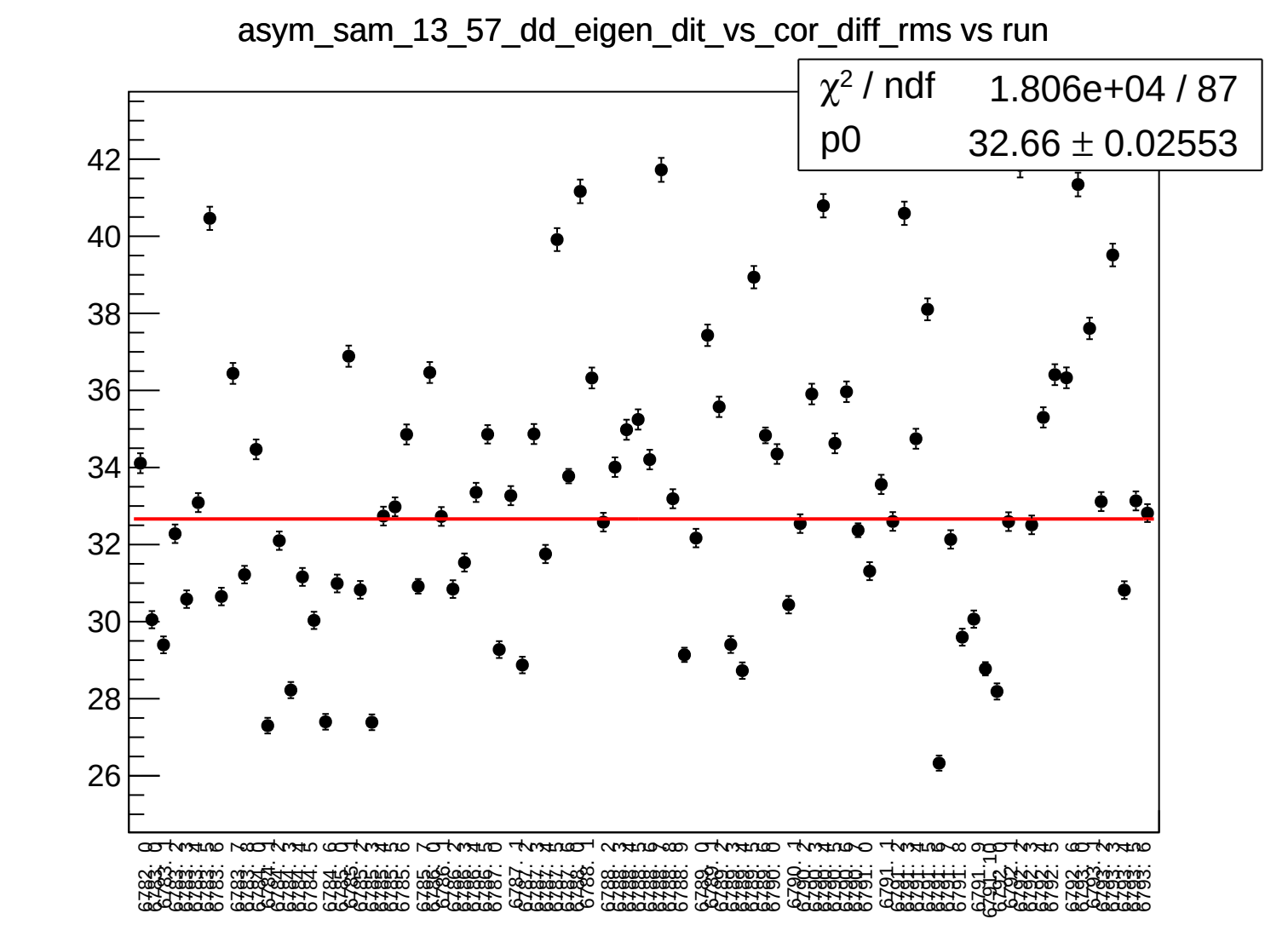

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.1 / 87
p0 1.888e−06 ± 8.056e−07
pull
Entries 88
Mean −345.5
Std Dev 0

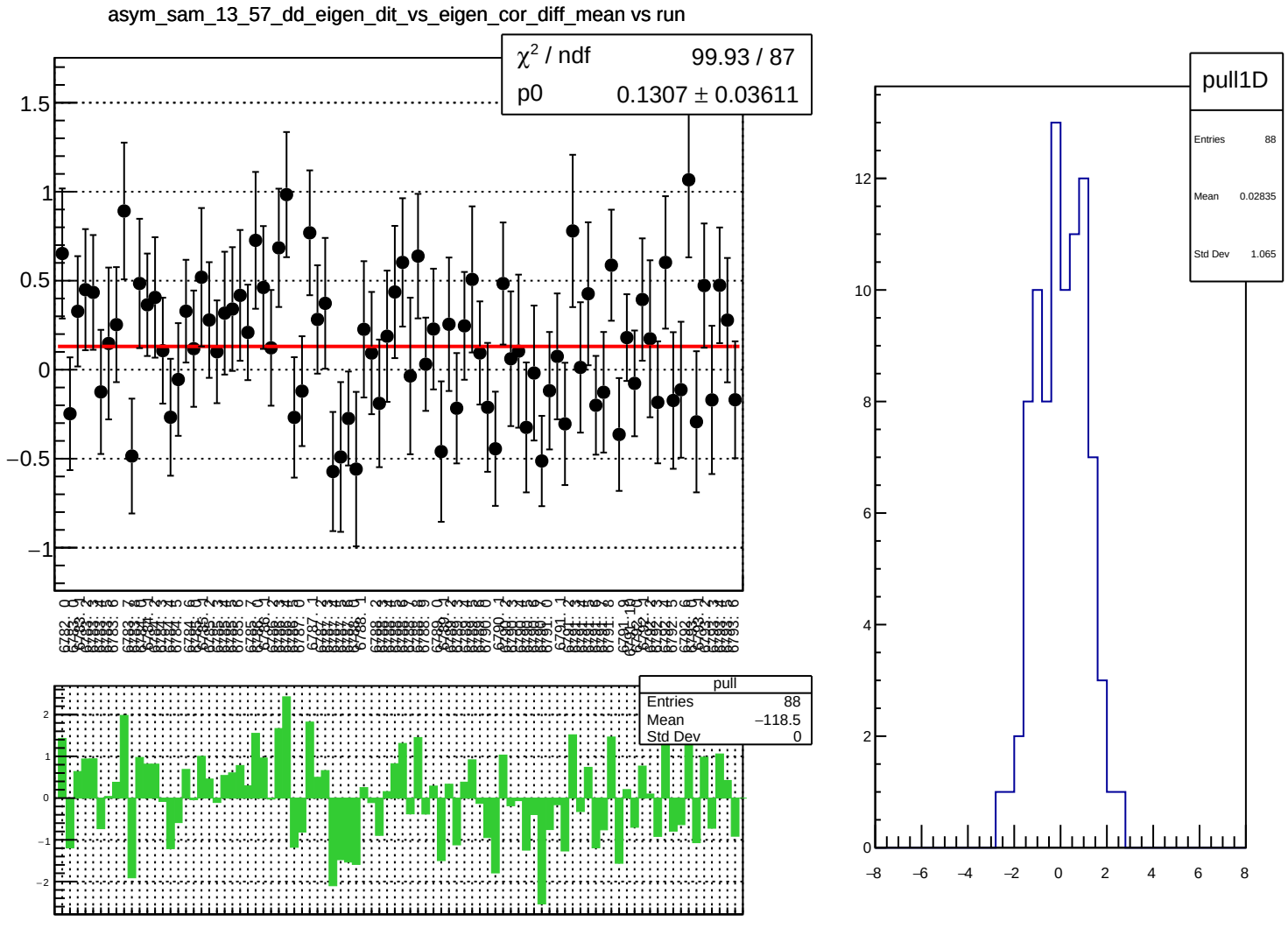

pull1D
Entries 88
Mean 0.00965
Std Dev 1.108

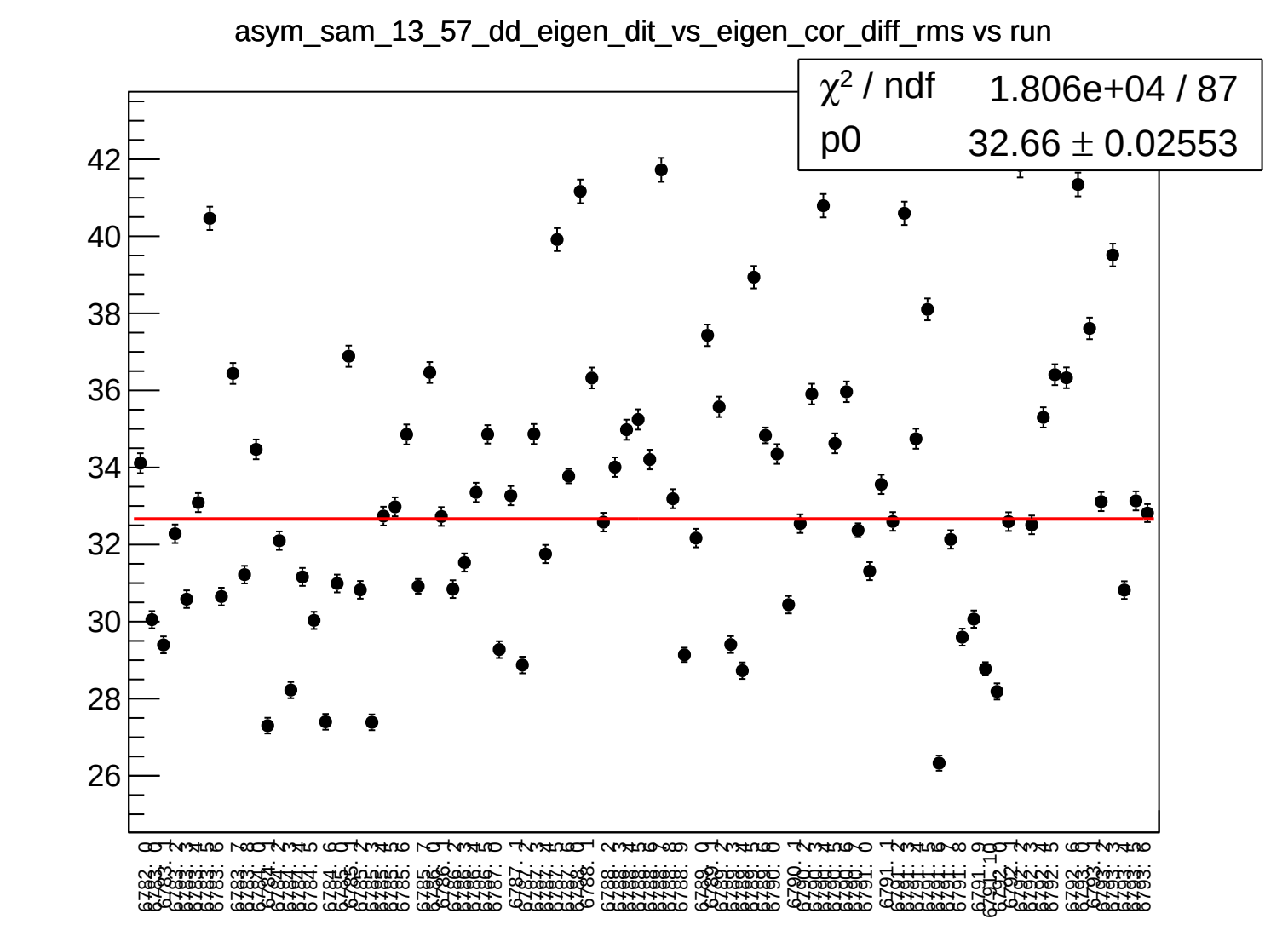

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4112 / 87
p0 0.0007319 ± 5.696e−07
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64

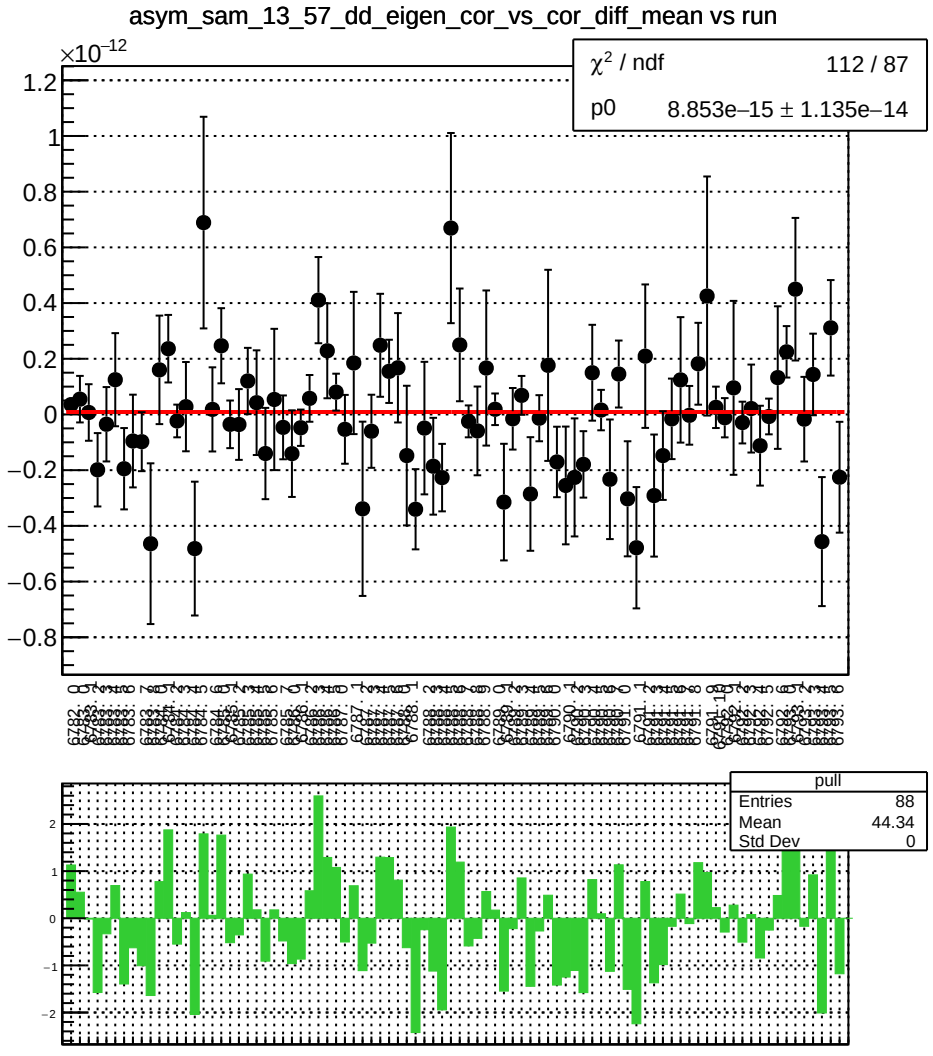

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.93 / 87
p0 0.1307 ± 0.03611
pull
Entries 88
Mean −118.5
Std Dev 0

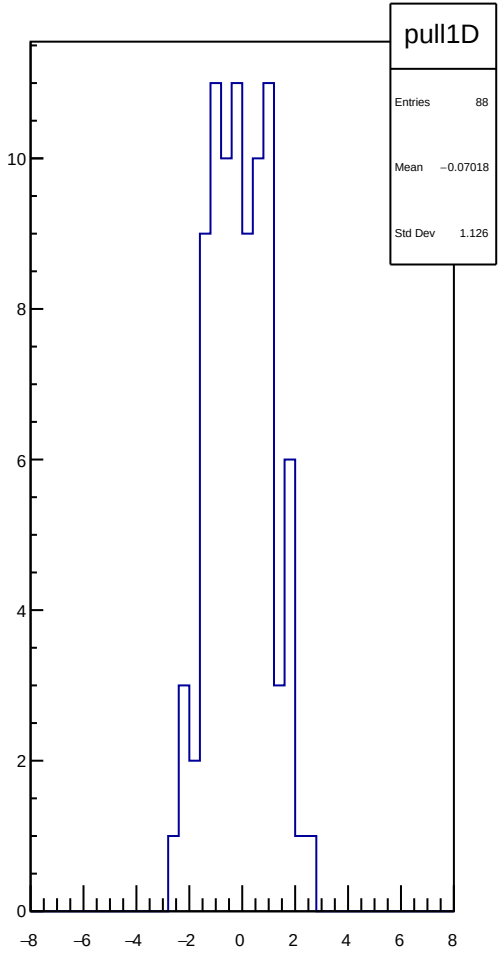

pull1D
Entries 88
Mean 0.02835
Std Dev 1.065

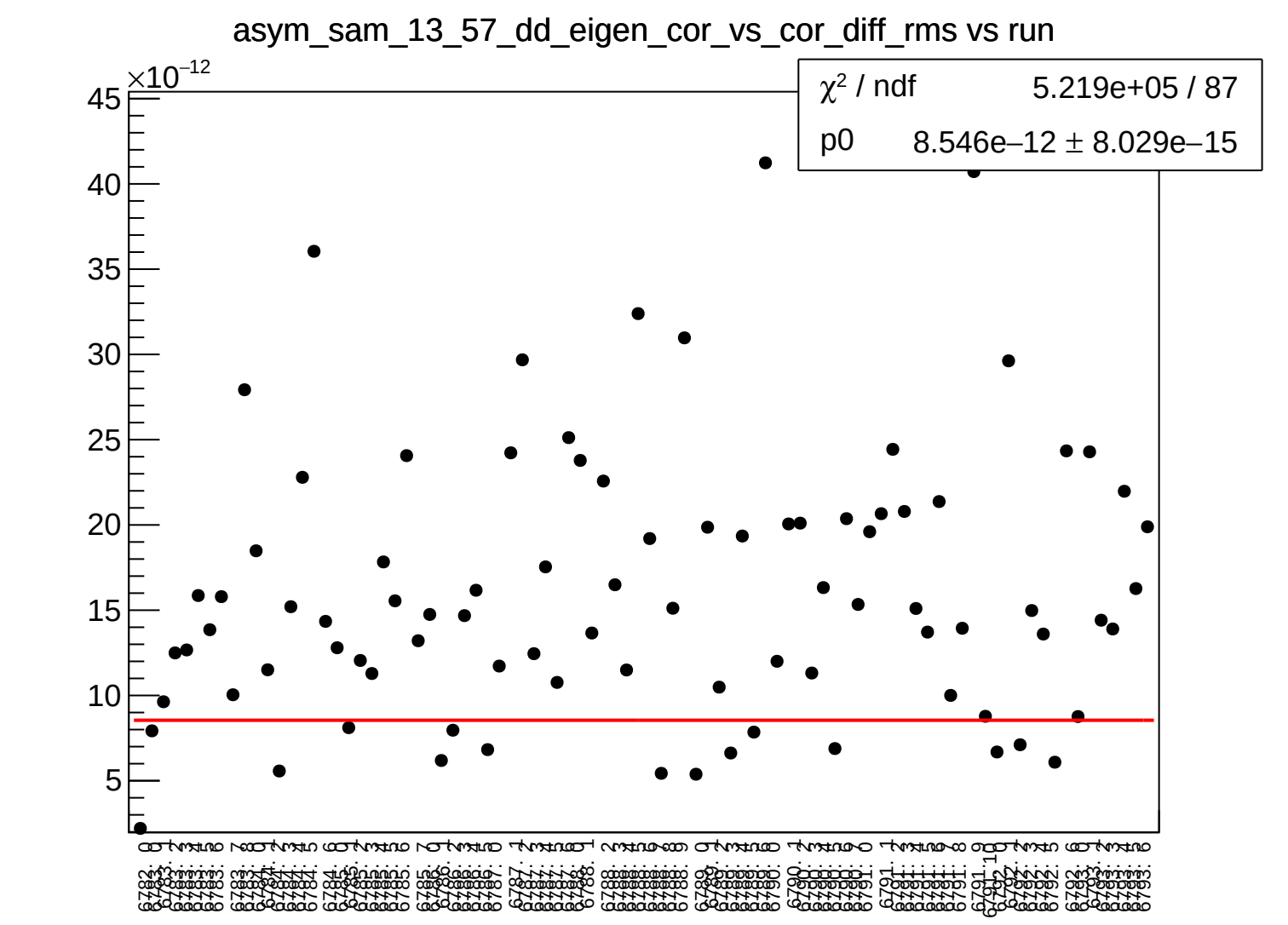

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.806e+04 / 87
p0 32.66 ± 0.02553
42
40
38
36
34
32
30
28
26

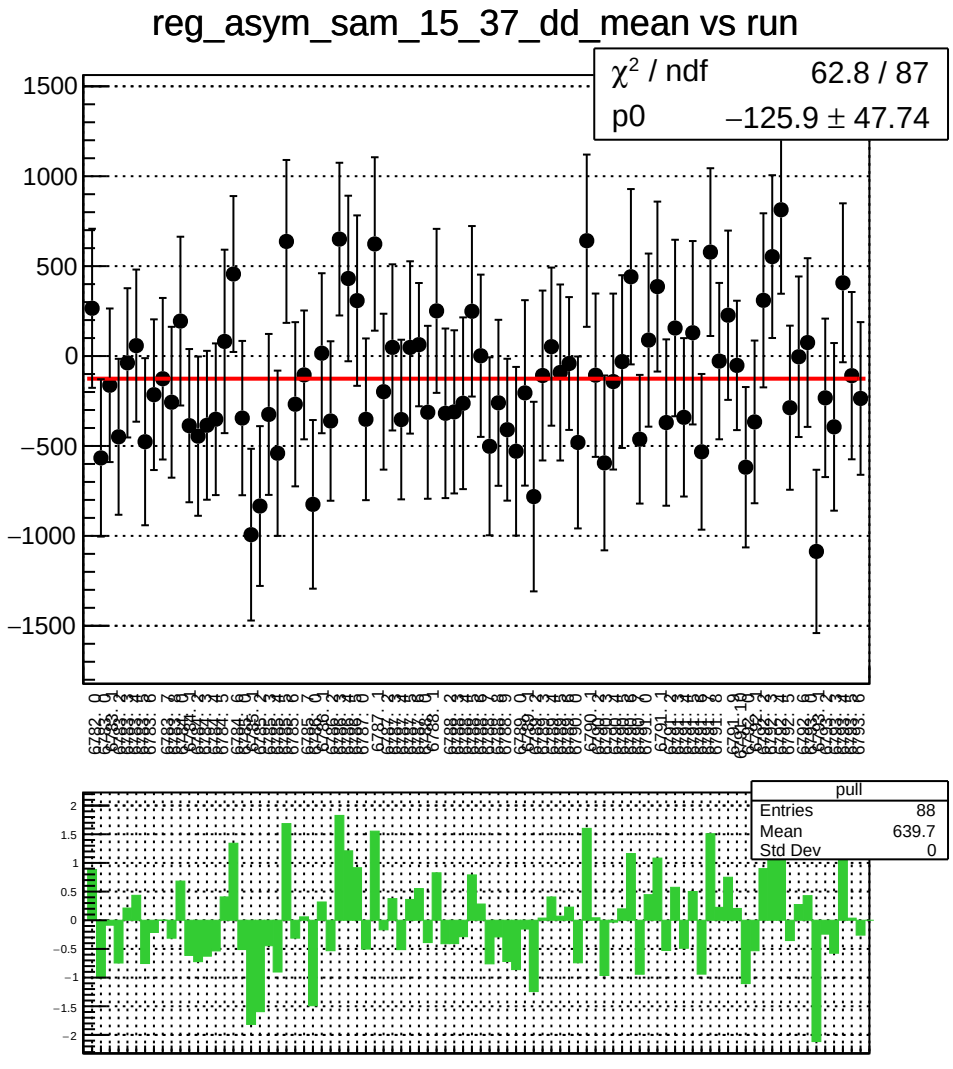

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.93 / 87
p0 0.1307 ± 0.03611
pull
Entries 88
Mean −118.5
Std Dev 0
pull1D
Entries 88
Mean 0.02835
Std Dev 1.065

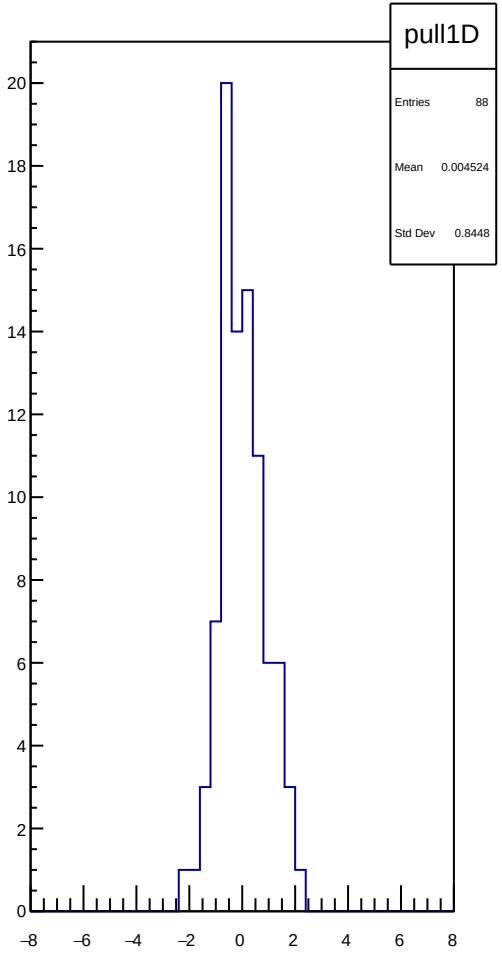

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.806e+04 / 87
p0 32.66 ± 0.02553
42
40
38
36
34
32
30
28
26

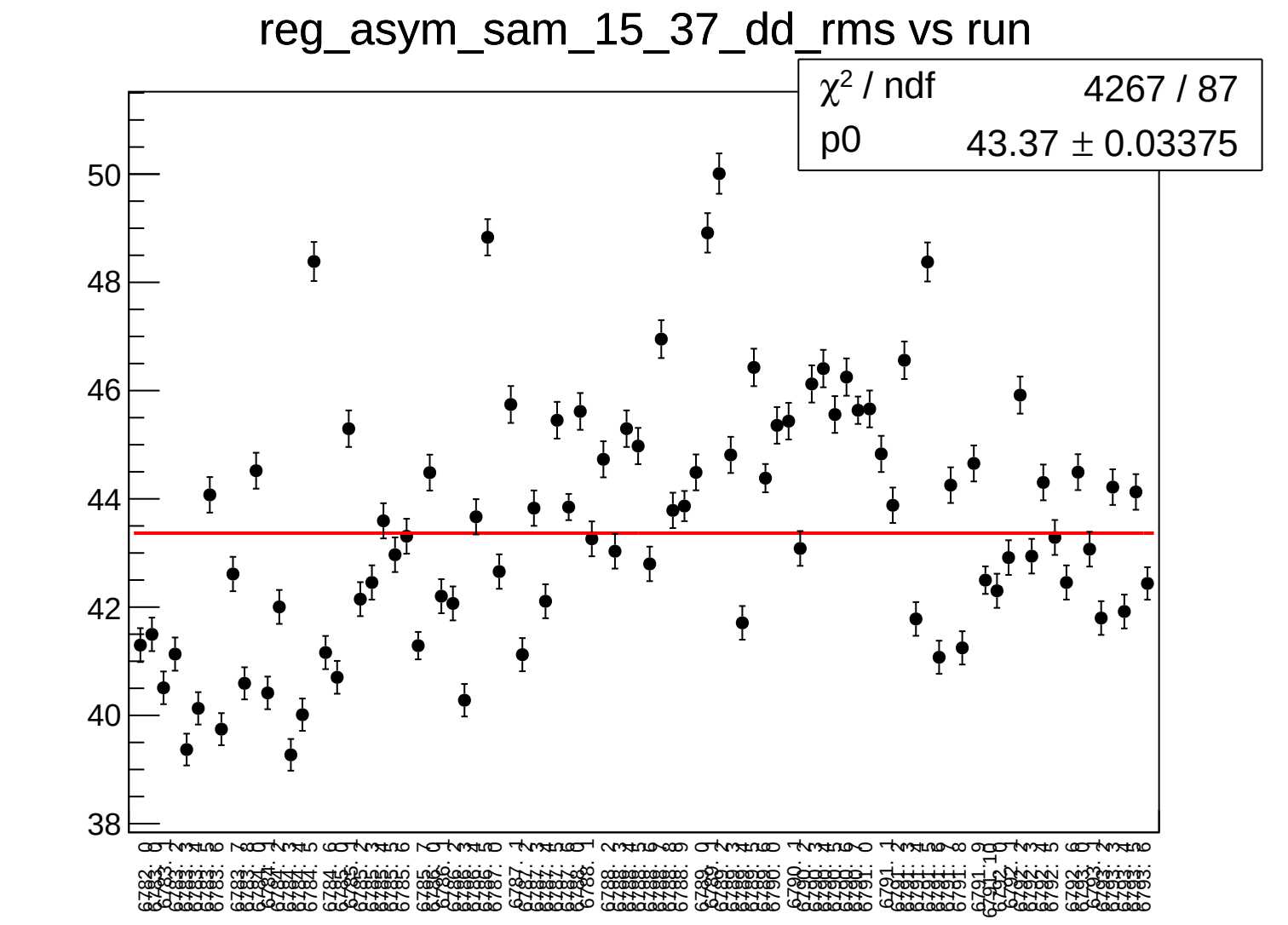

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112 / 87
p0 8.853e−15 ± 1.135e−14
pull
Entries 88
Mean 44.34
Std Dev 0

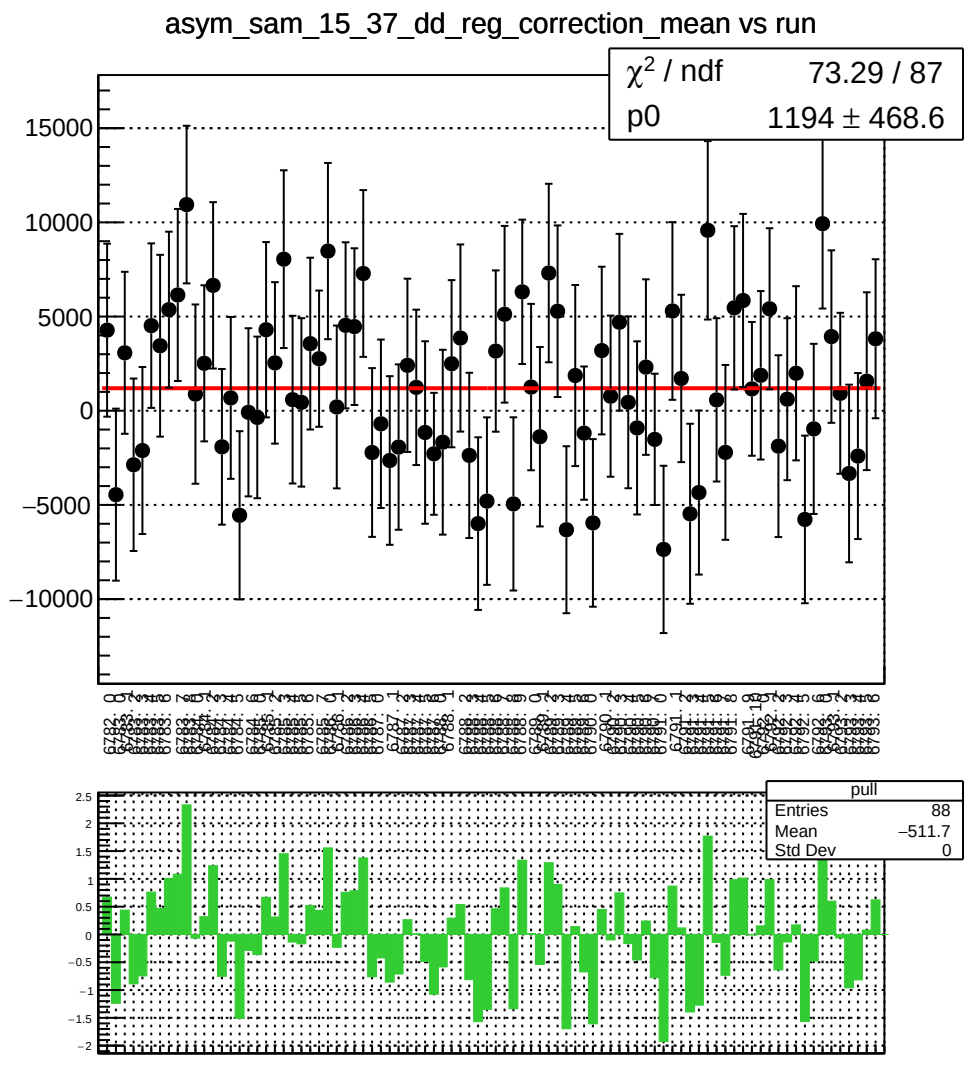

pull1D
Entries 88
Mean −0.07018
Std Dev 1.126

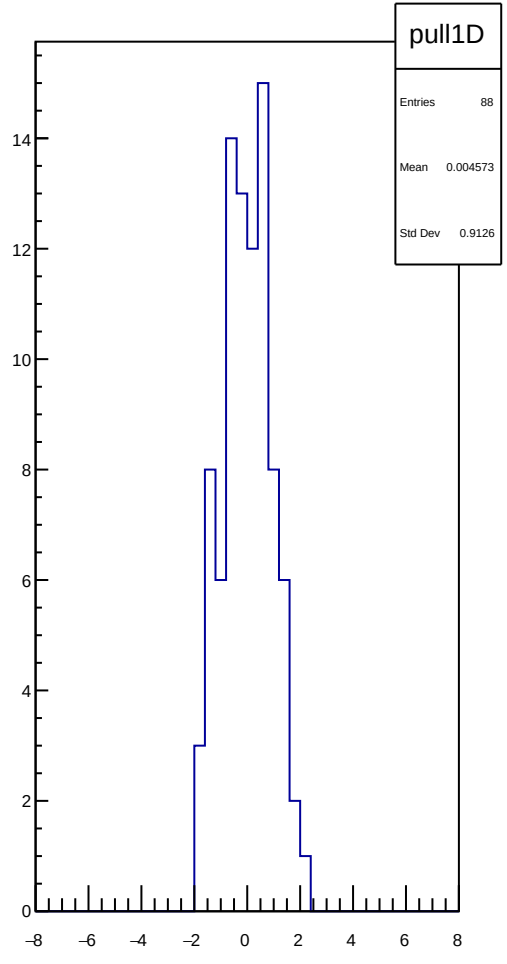

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.219e+05 / 87
p0 8.546e−12 ± 8.029e−15
45
40
35
30
25
20
15
10
5

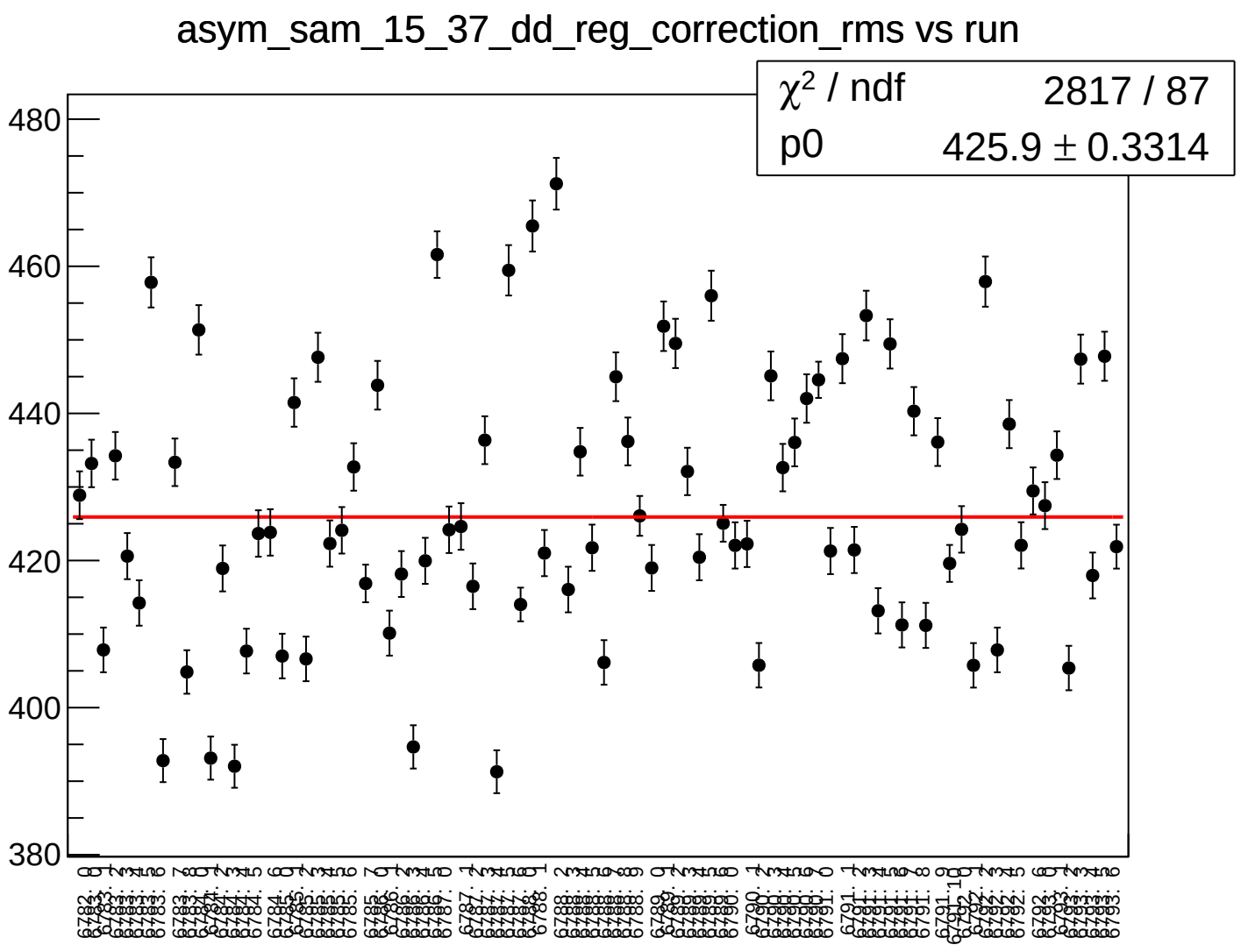

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 62.8 / 87
p0 −125.9 ± 47.74
pull
Entries 88
Mean 639.7
Std Dev 0

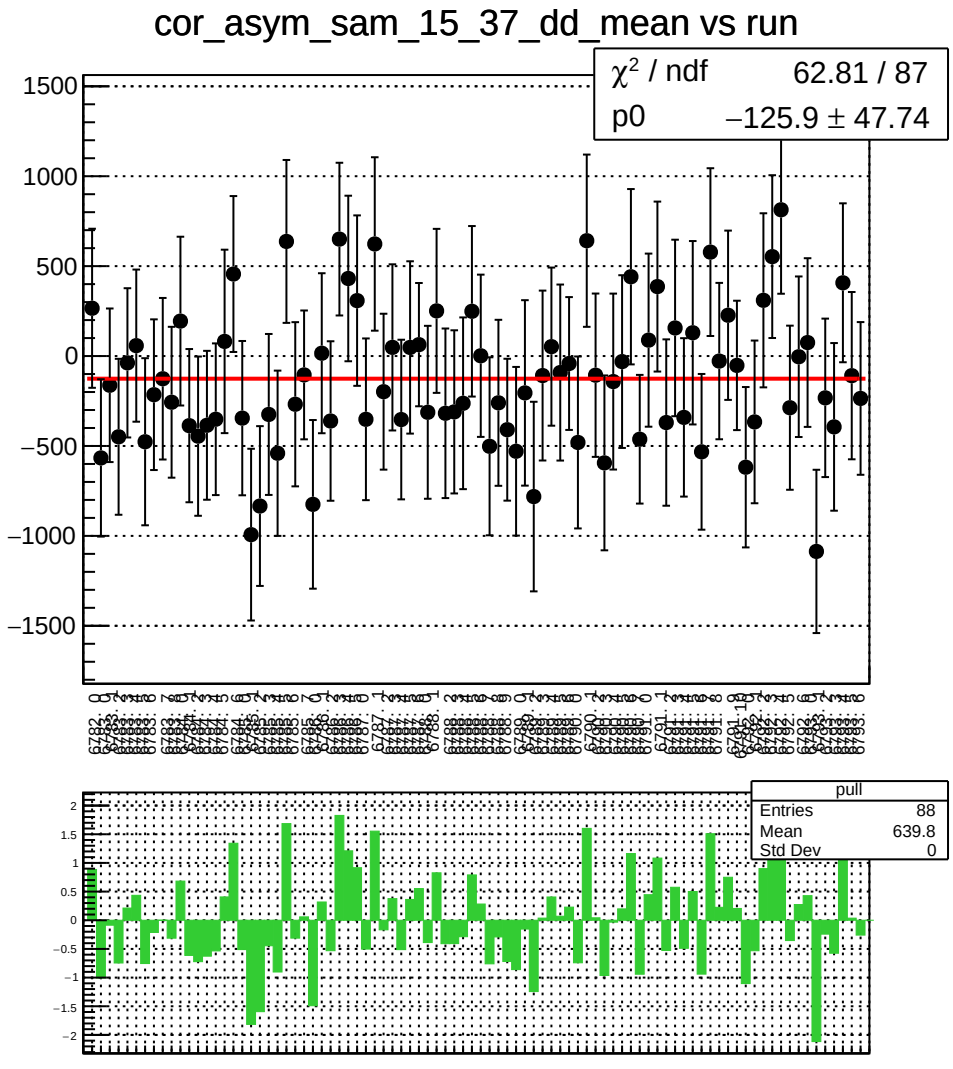

pull1D
Entries 88
Mean 0.004524
Std Dev 0.8448

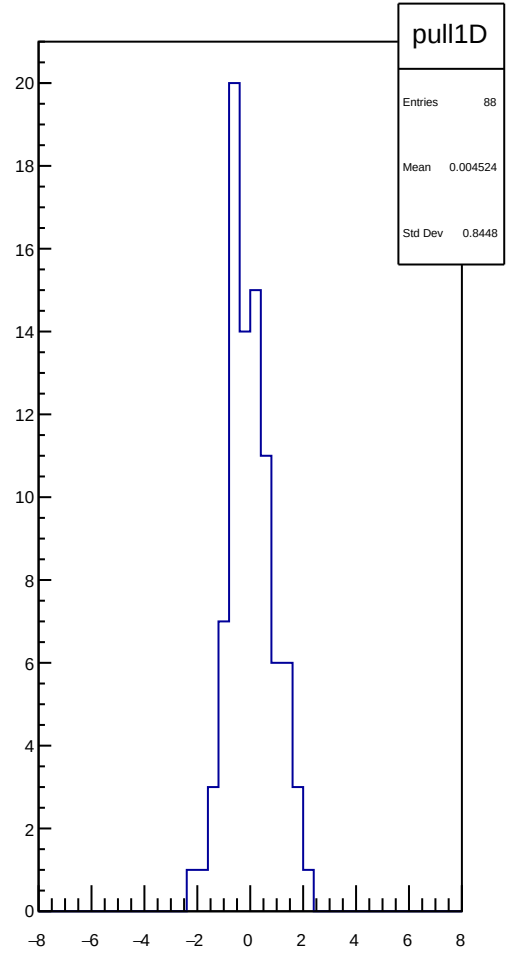

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 4267 / 87
p0 43.37 ± 0.03375
50
48
46
44
42
40
38

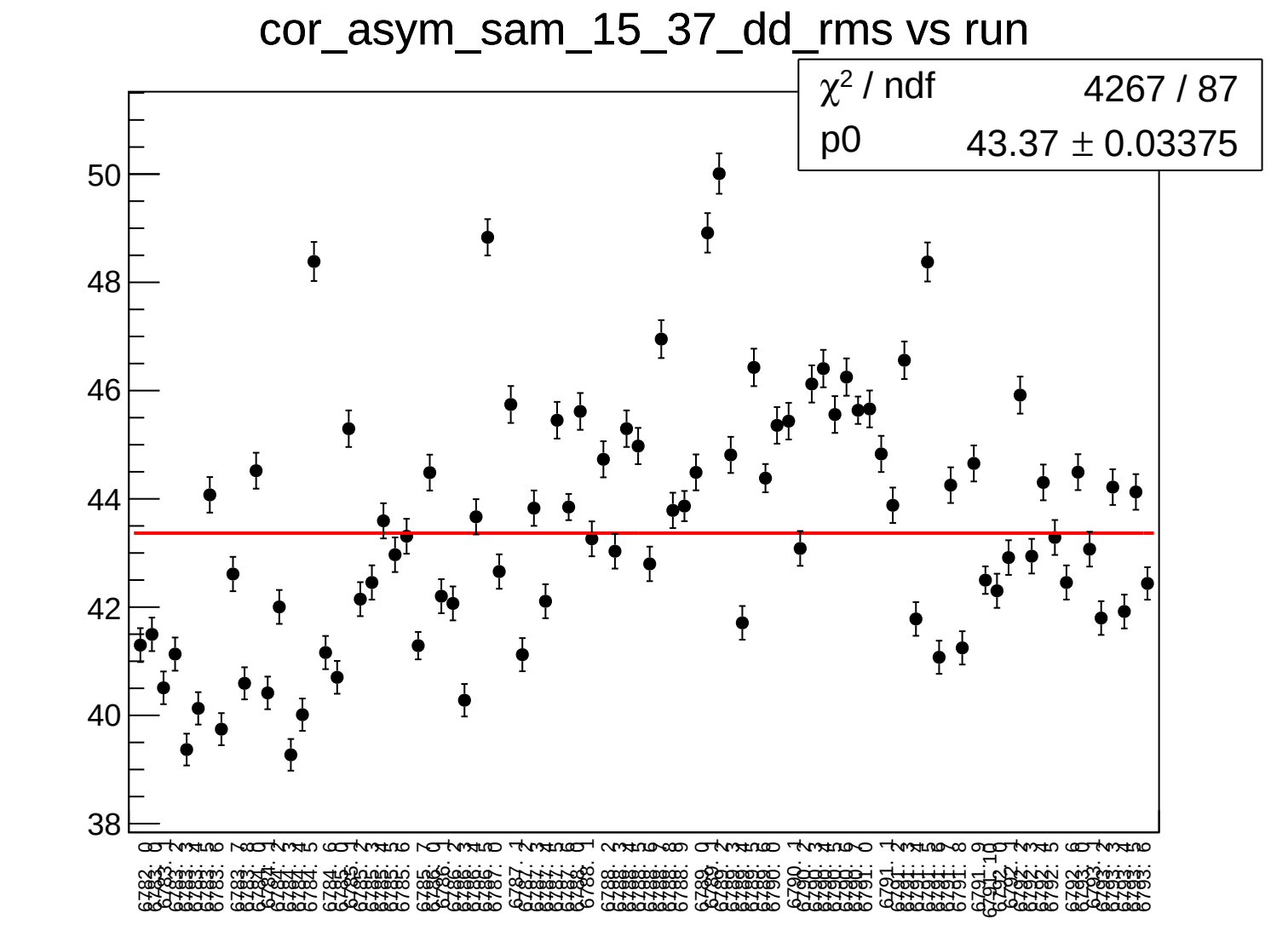

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 73.29 / 87
p0 1194 ± 468.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −511.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

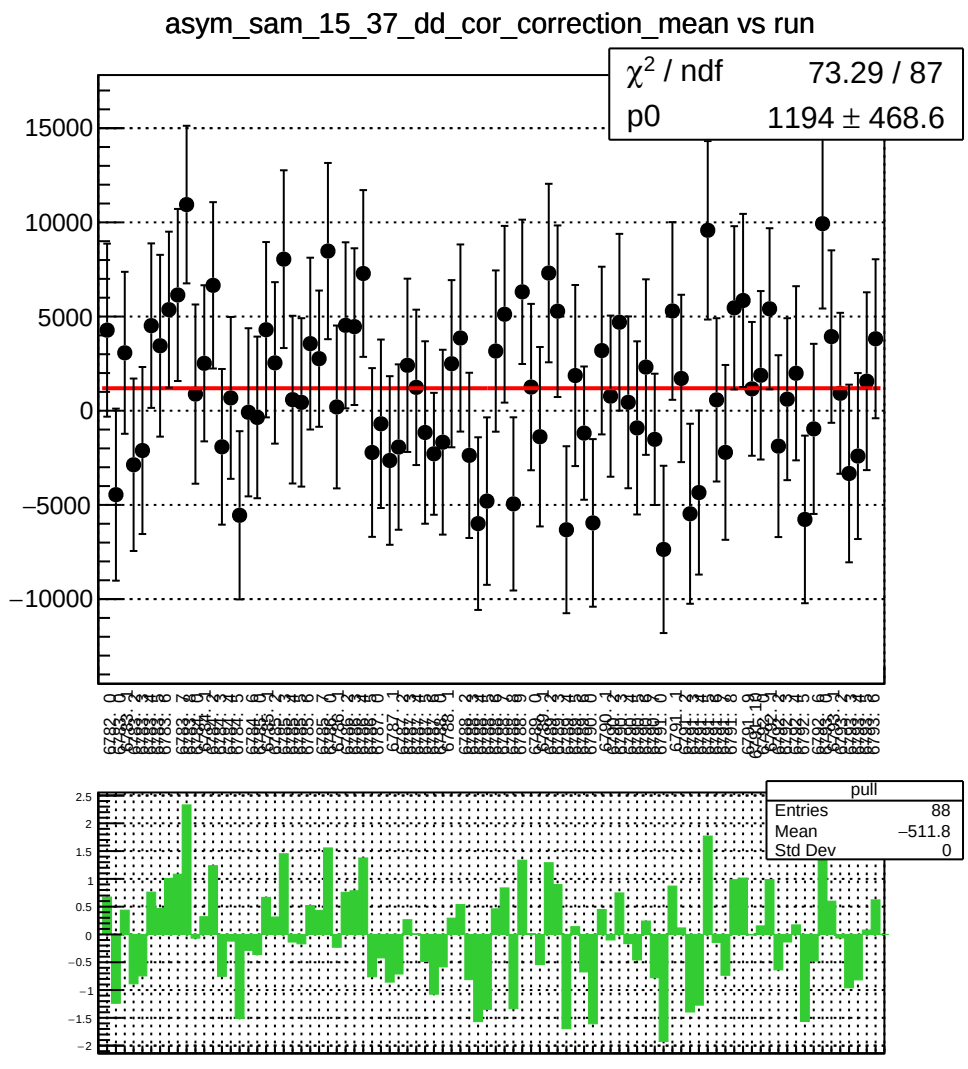

pull1D
Entries 88
Mean 0.004573
Std Dev 0.9126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

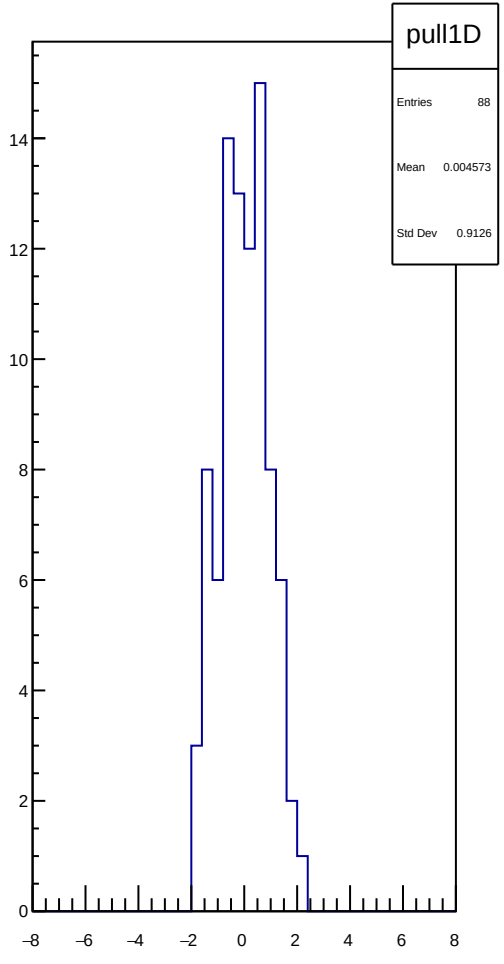

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2817 / 87
p0 425.9 ± 0.3314
480
460
440
420
400
380

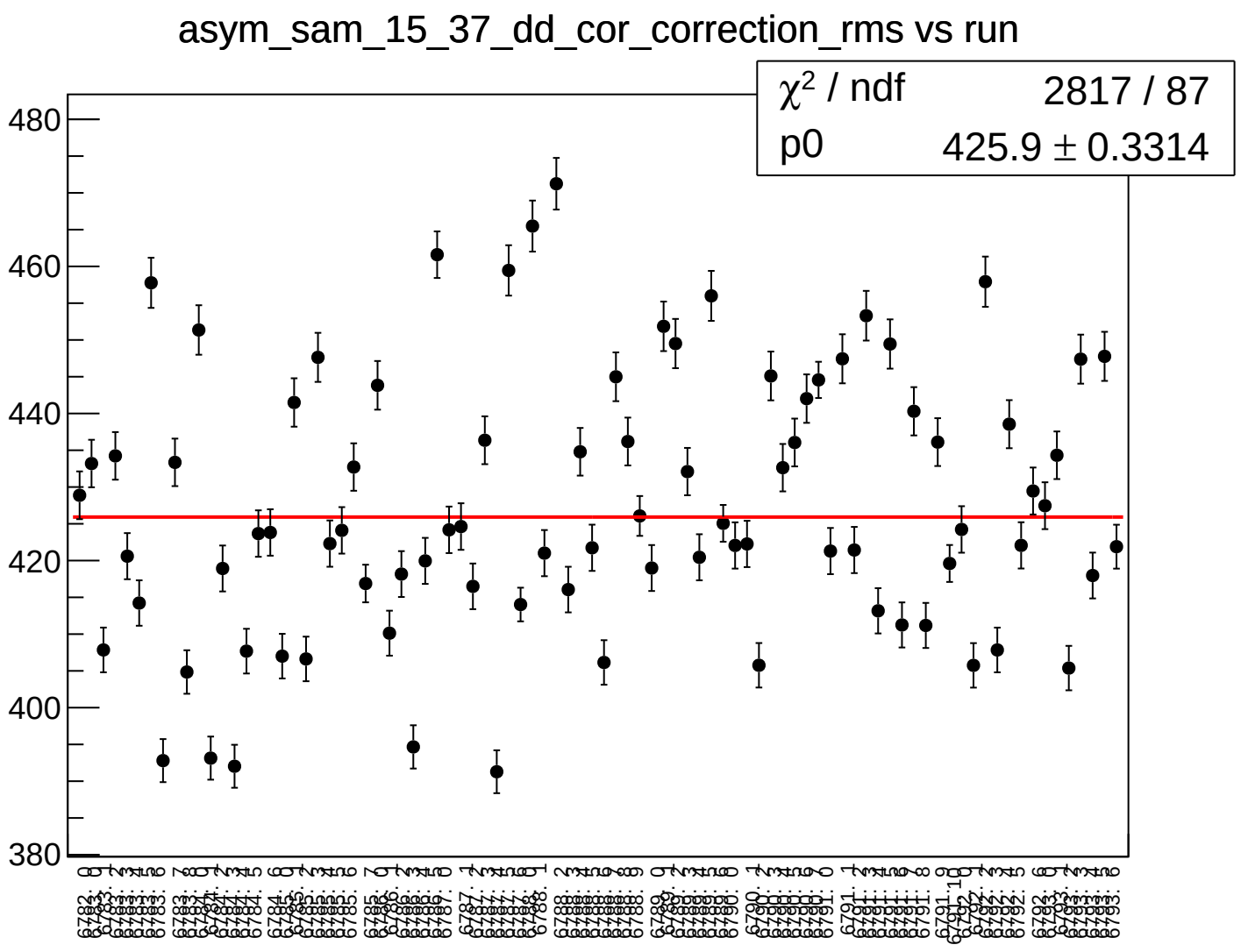

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 62.81 / 87
p0 −125.9 ± 47.74
pull
Entries 88
Mean 639.8
Std Dev 0

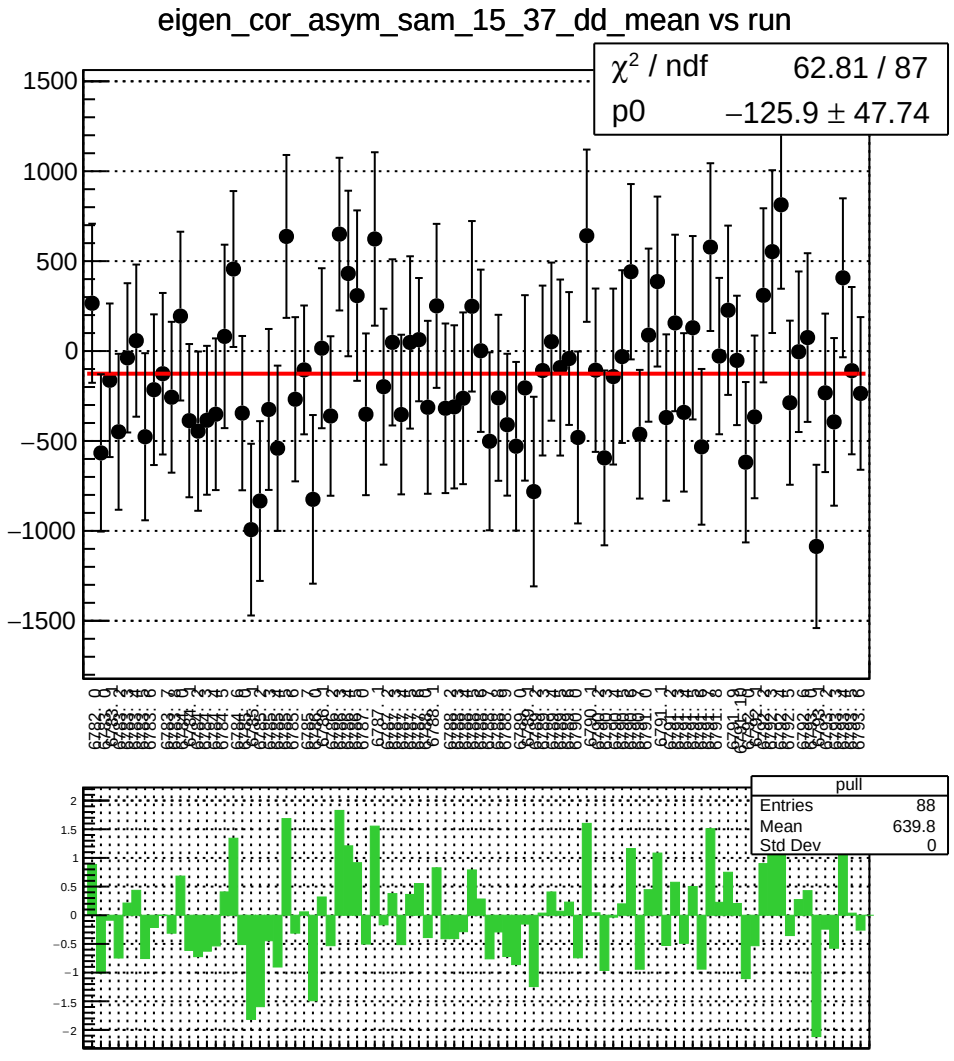

pull1D
Entries 88
Mean 0.004524
Std Dev 0.8448

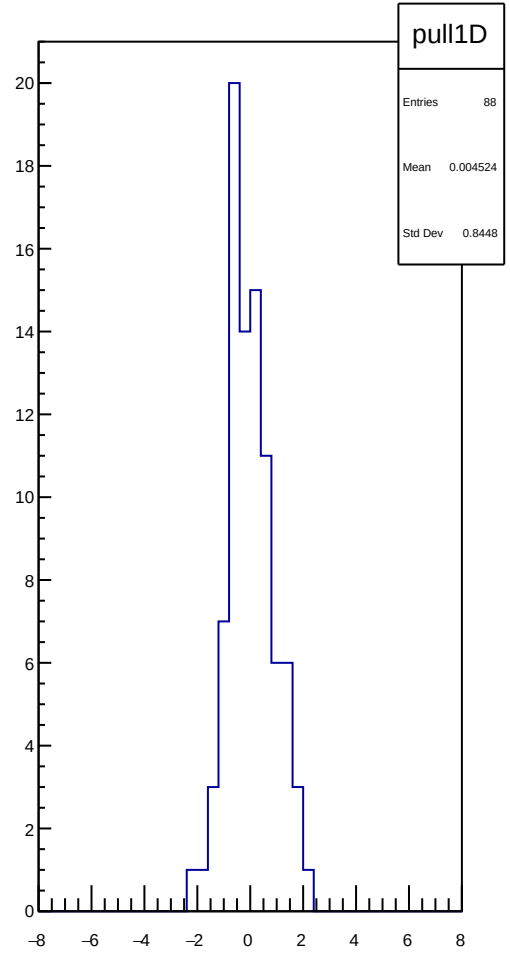

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 4267 / 87
p0 43.37 ± 0.03375
50
48
46
44
42
40
38

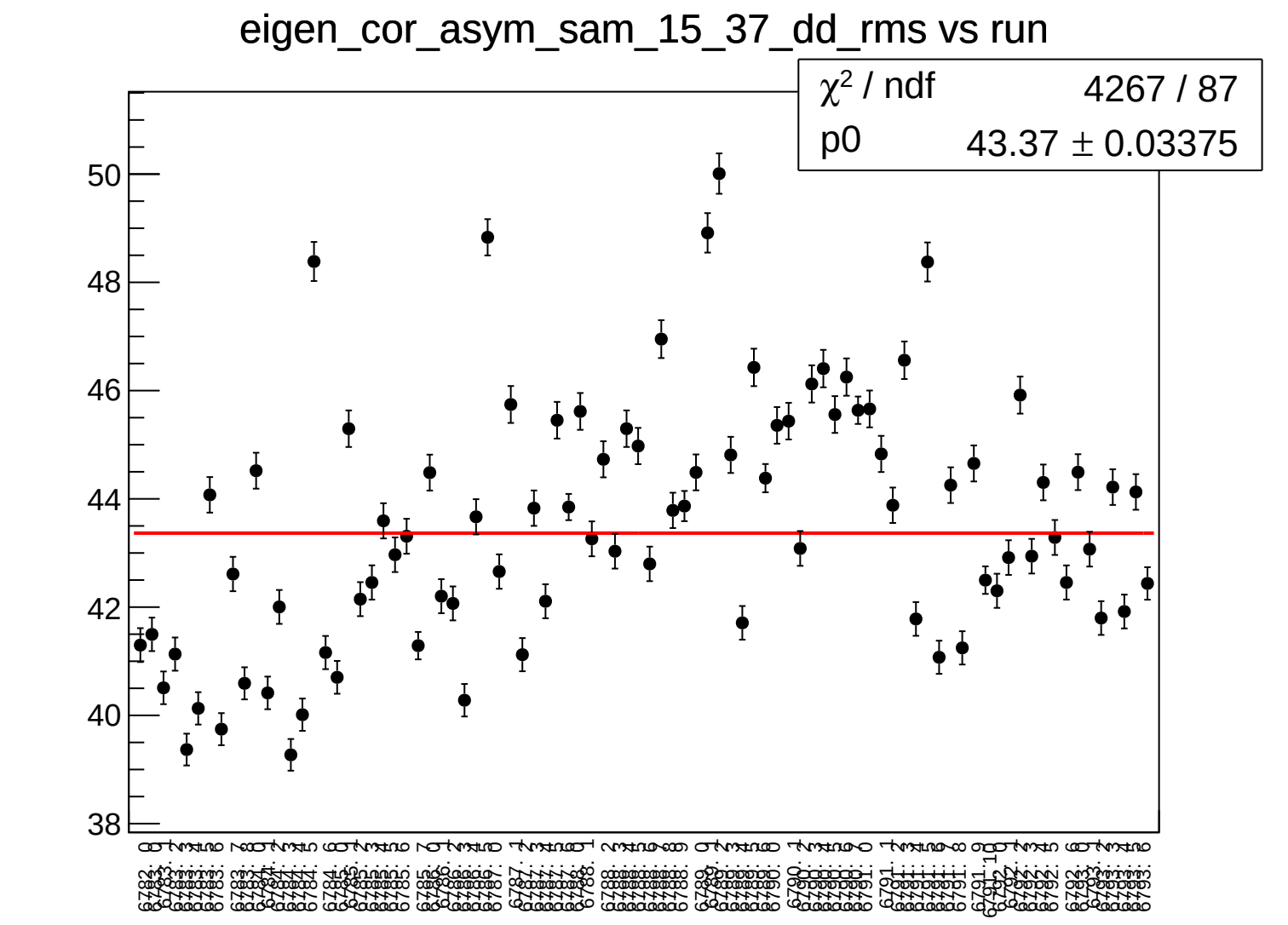

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 73.29 / 87
p0 1194 ± 468.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −511.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

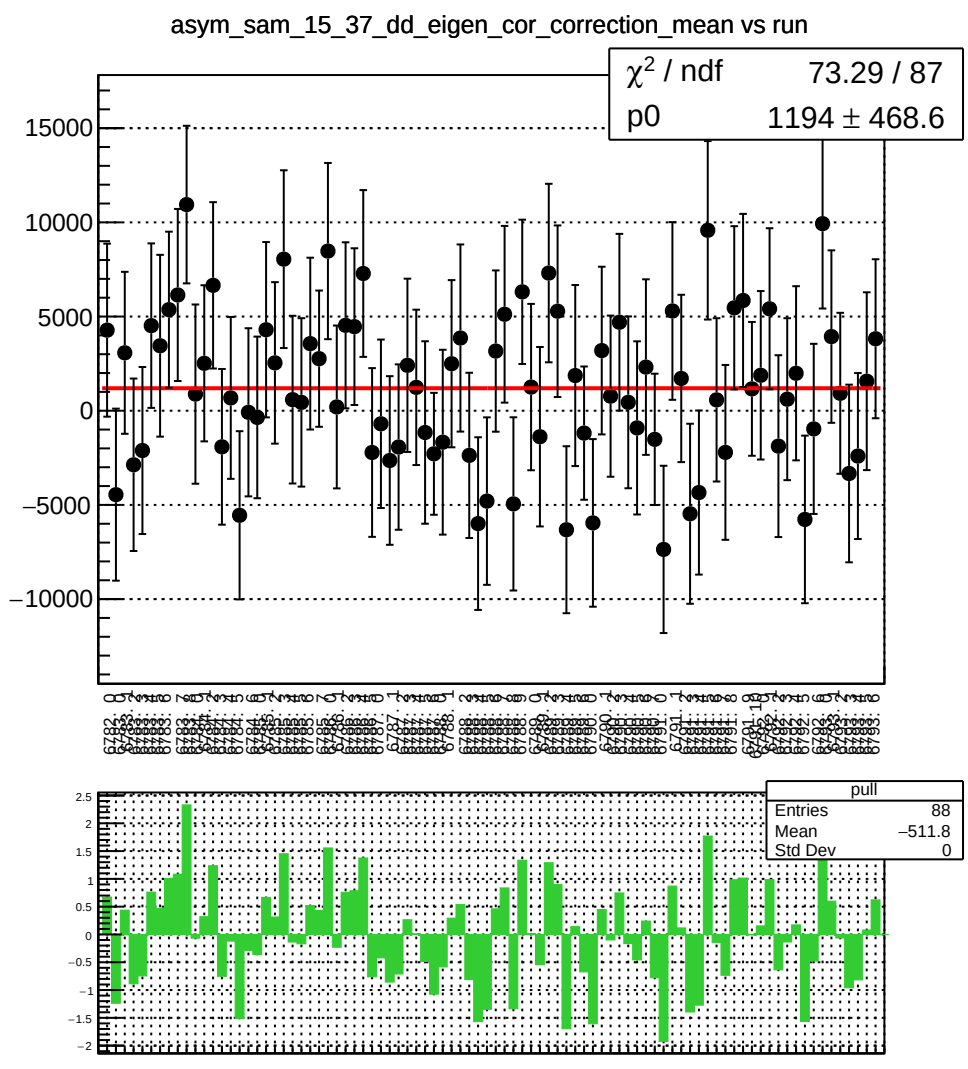

pull1D
Entries 88
Mean 0.004573
Std Dev 0.9126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

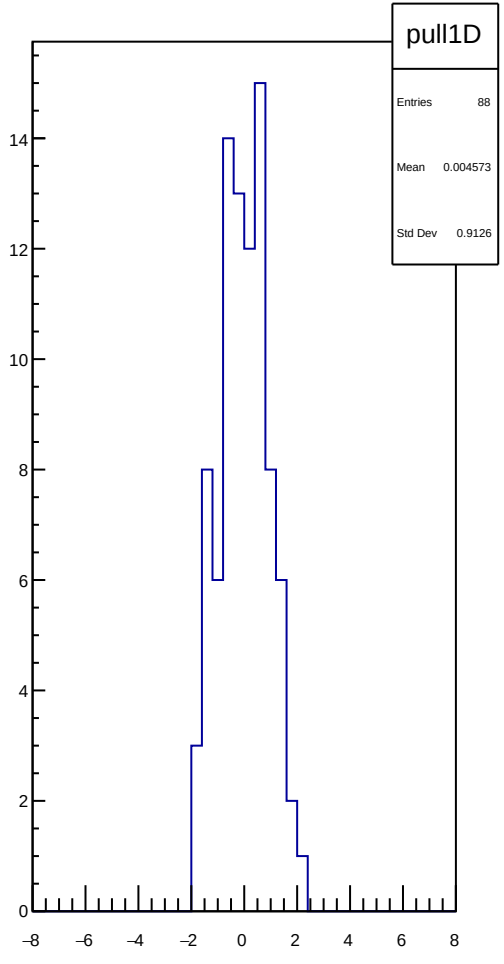

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2817 / 87
p0 425.9 ± 0.3314
480
460
440
420
400
380

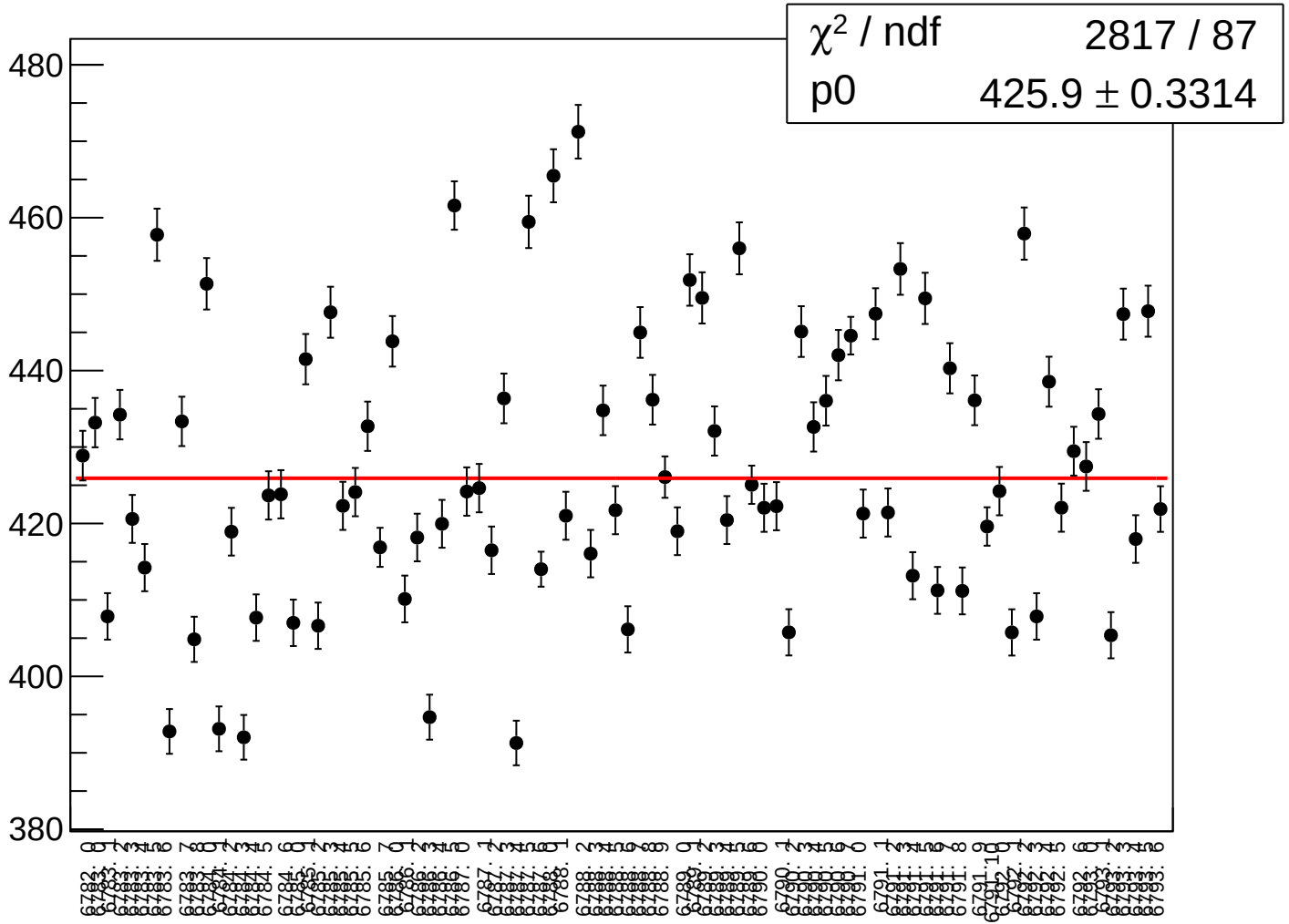

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 62.81 / 87
p0 −125.9 ± 47.74
pull
Entries 88
Mean 639.8
Std Dev 0

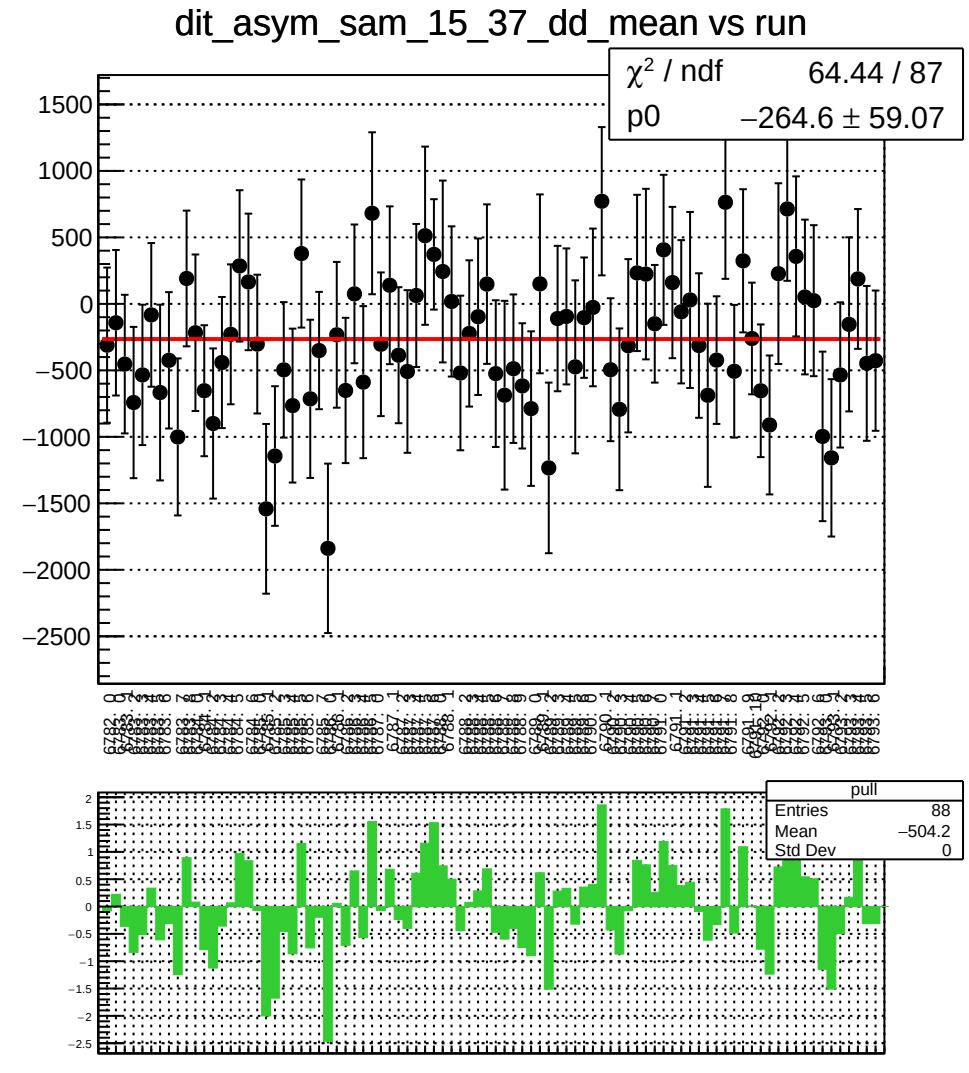

pull1D
Entries 88
Mean 0.004524
Std Dev 0.8448

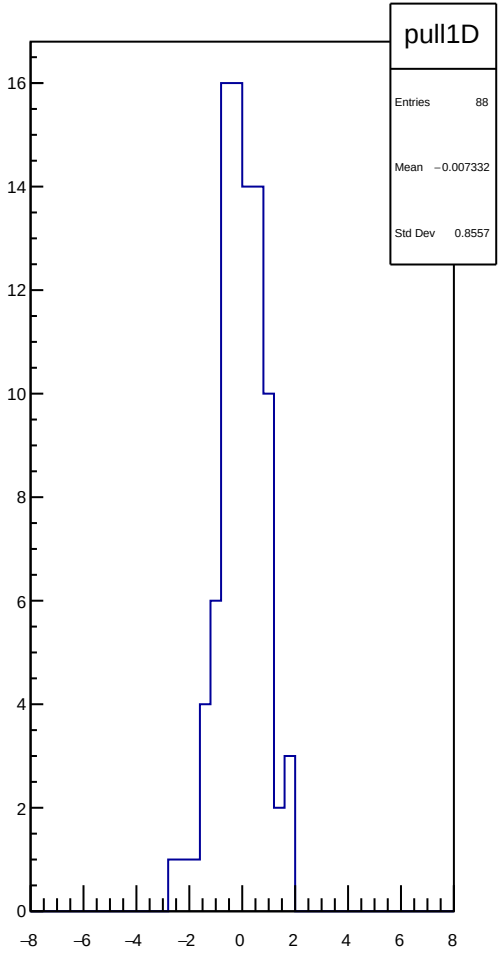

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 4267 / 87
p0 43.37 ± 0.03375
50
48
46
44
42
40
38

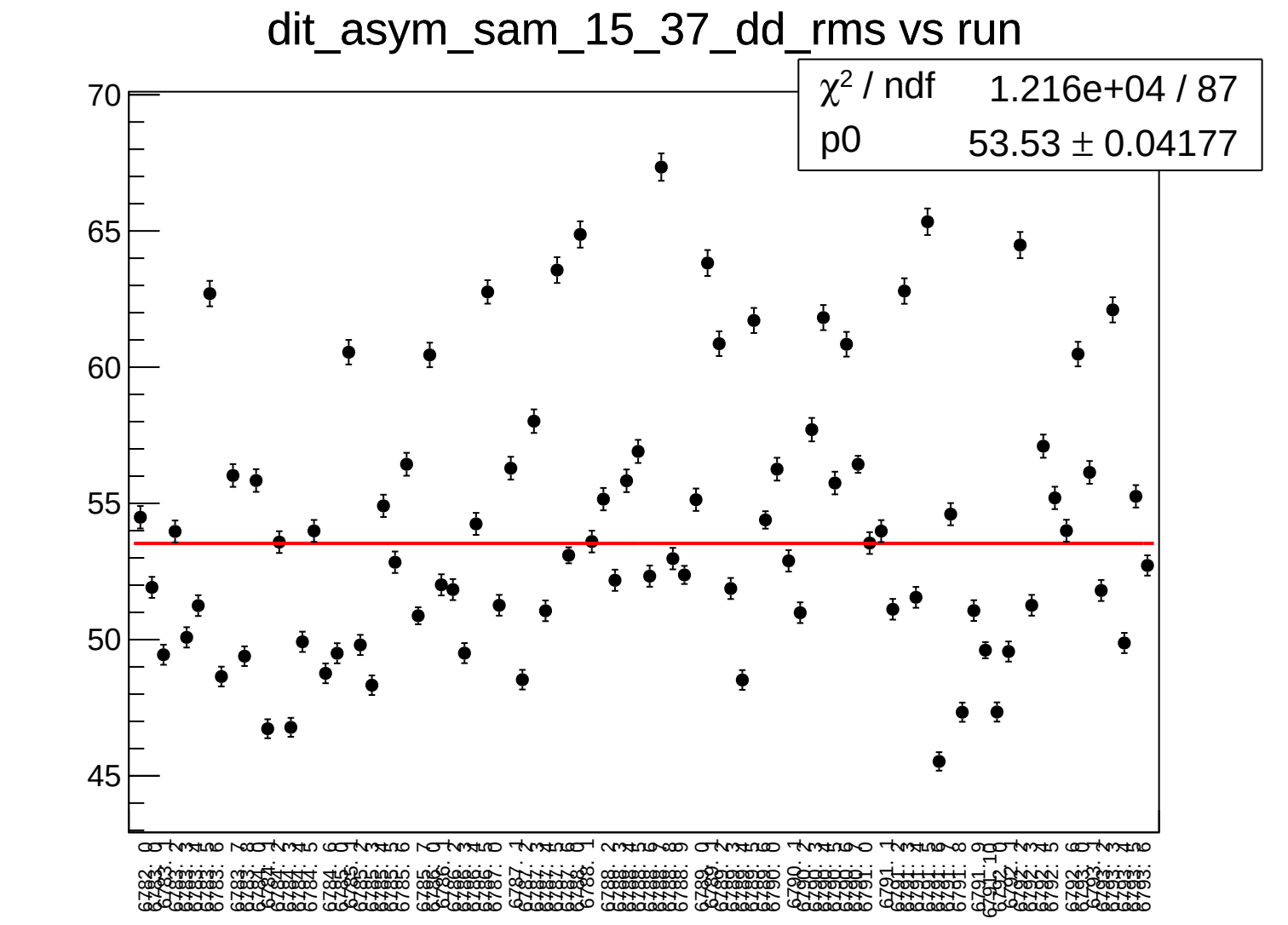

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.29 / 87
p0 1194 ± 468.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −511.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

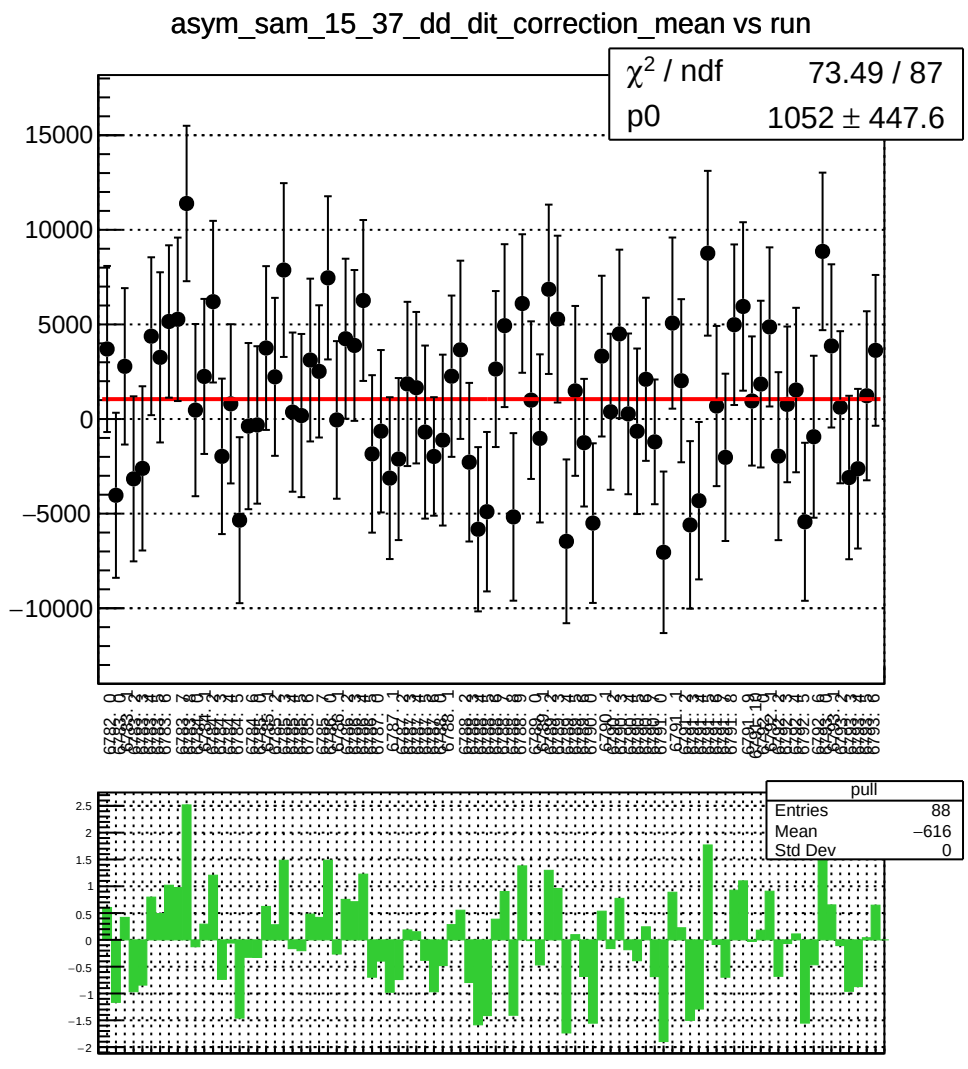

pull1D
Entries 88
Mean 0.004573
Std Dev 0.9126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

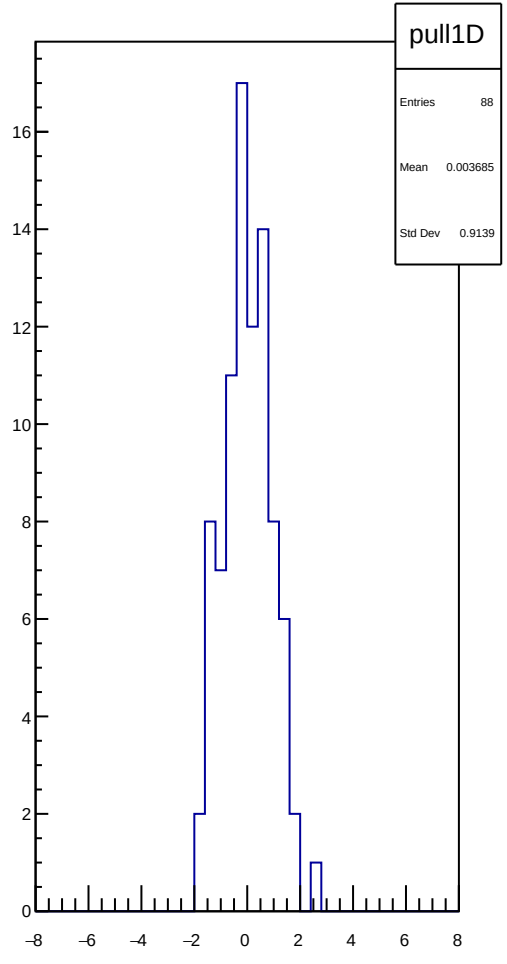

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2817 / 87
p0 425.9 ± 0.3314
480
460
440
420
400
380

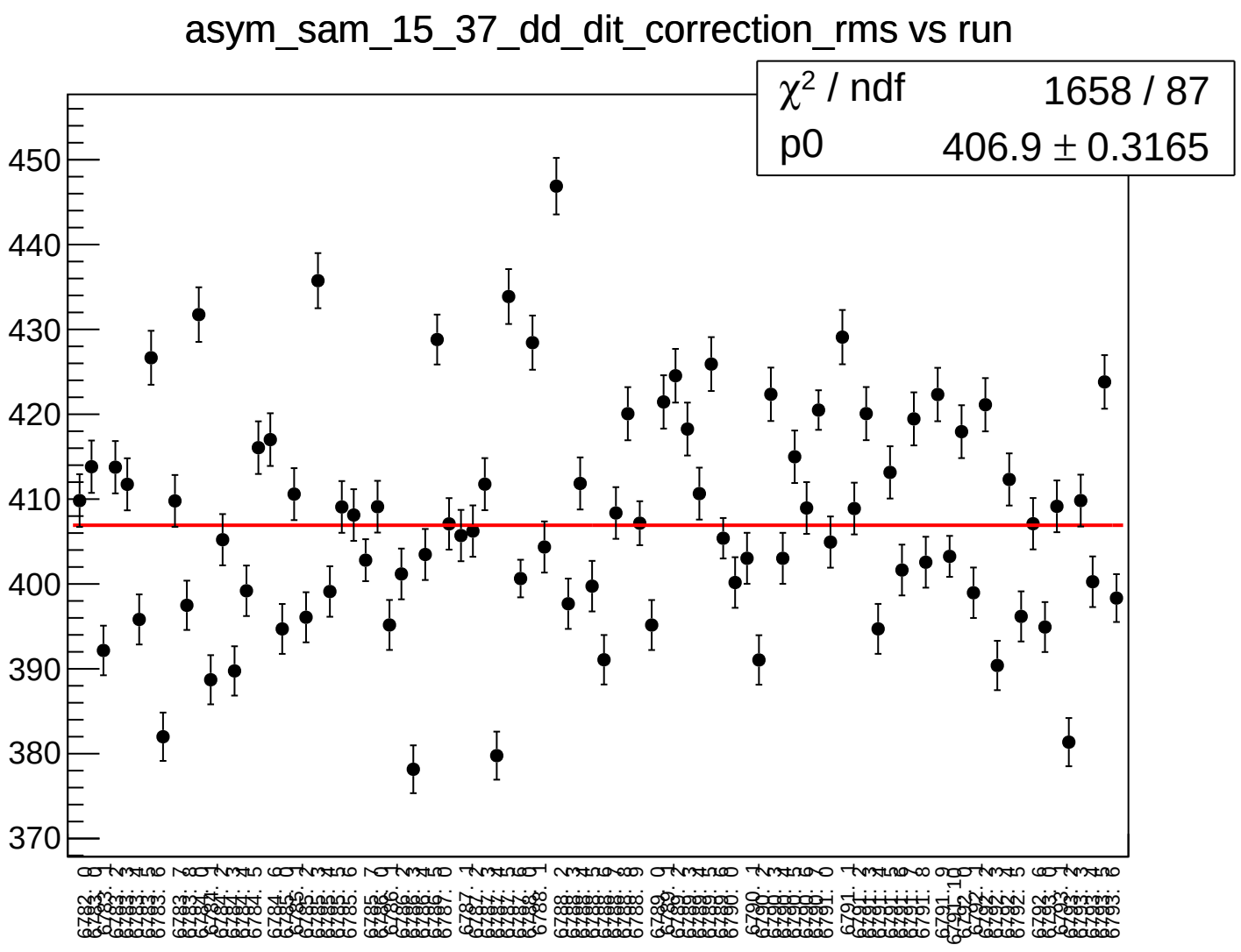

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 64.44 / 87
p0 −264.6 ± 59.07
pull
Entries 88
Mean −504.2
Std Dev 0

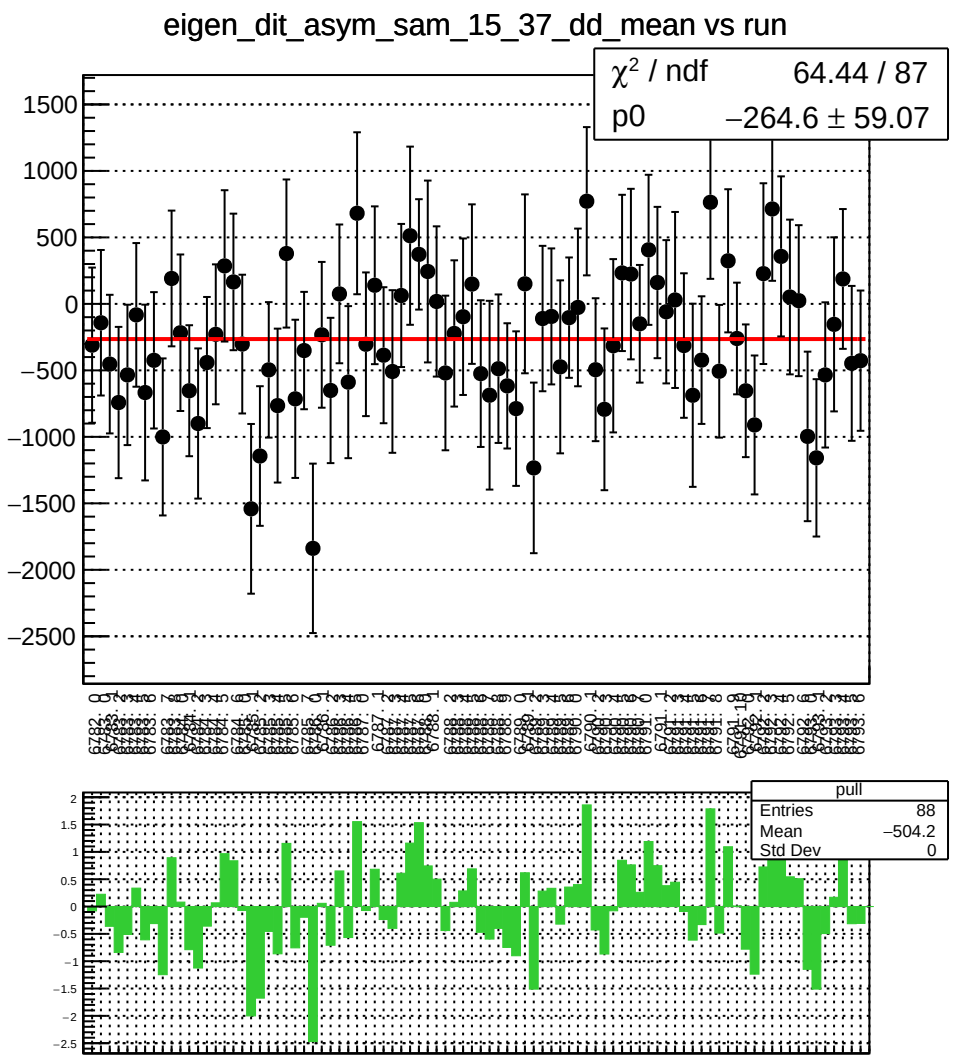

pull1D
Entries 88
Mean −0.007332
Std Dev 0.8557

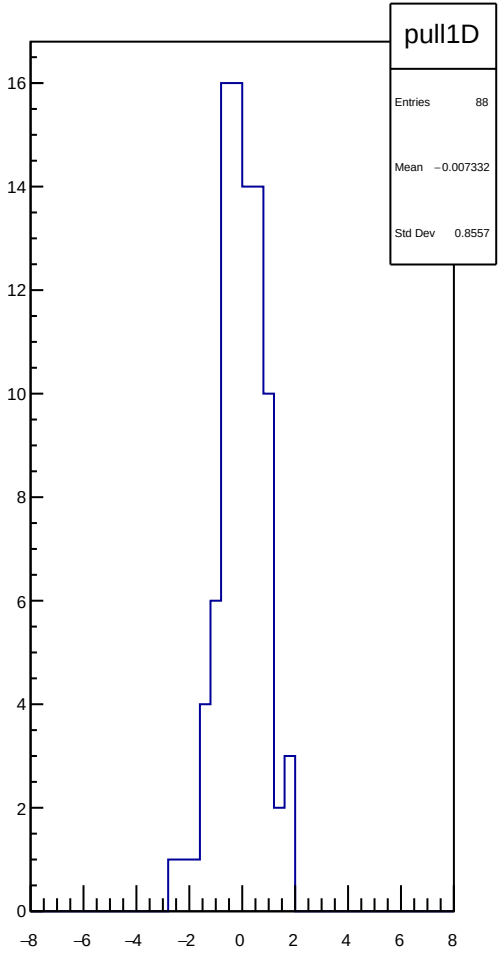

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.216e+04 / 87
p0 53.53 ± 0.04177
70
65
60
55
50
45

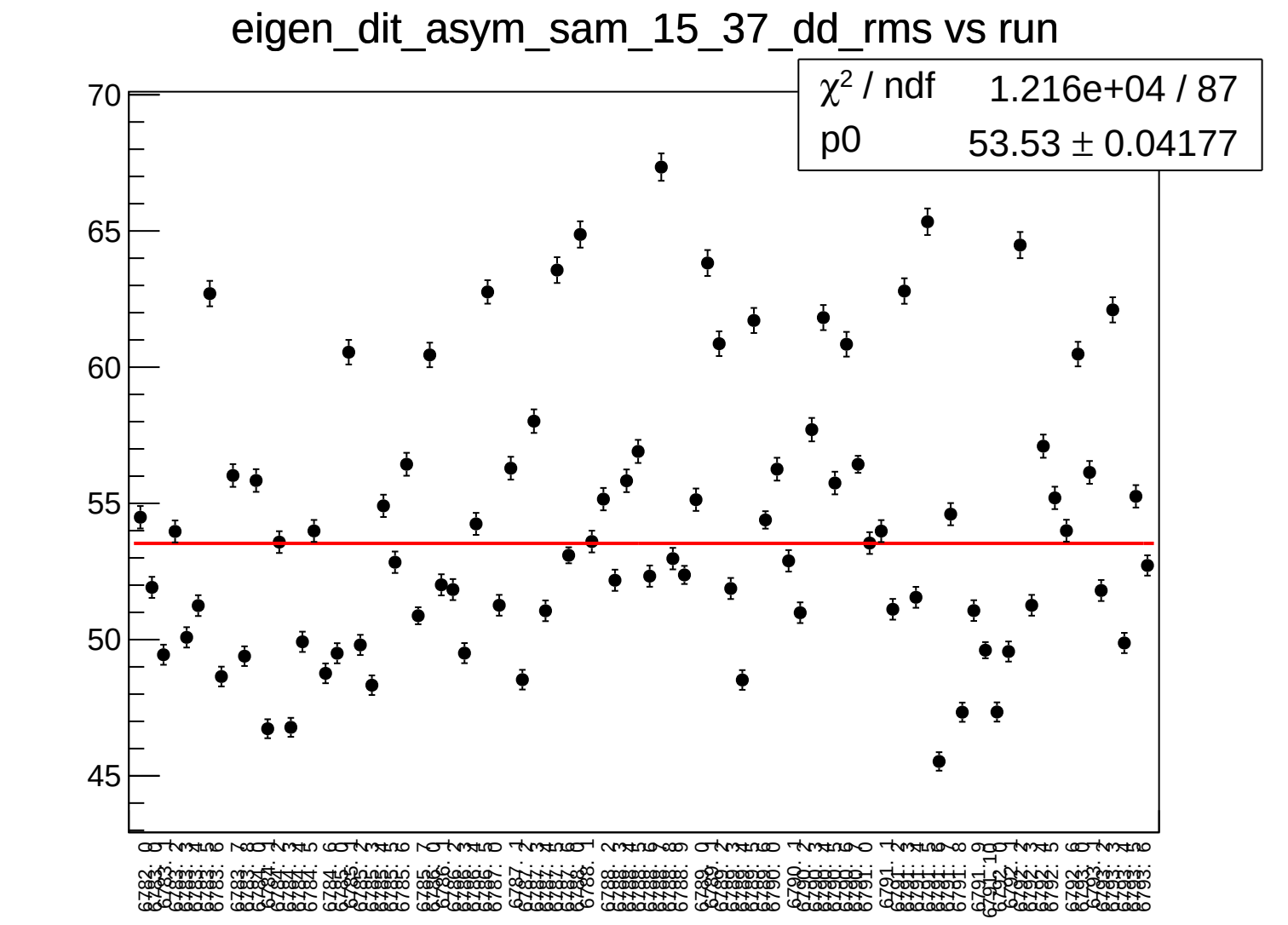

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 73.49 / 87
p0 1052 ± 447.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −616
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

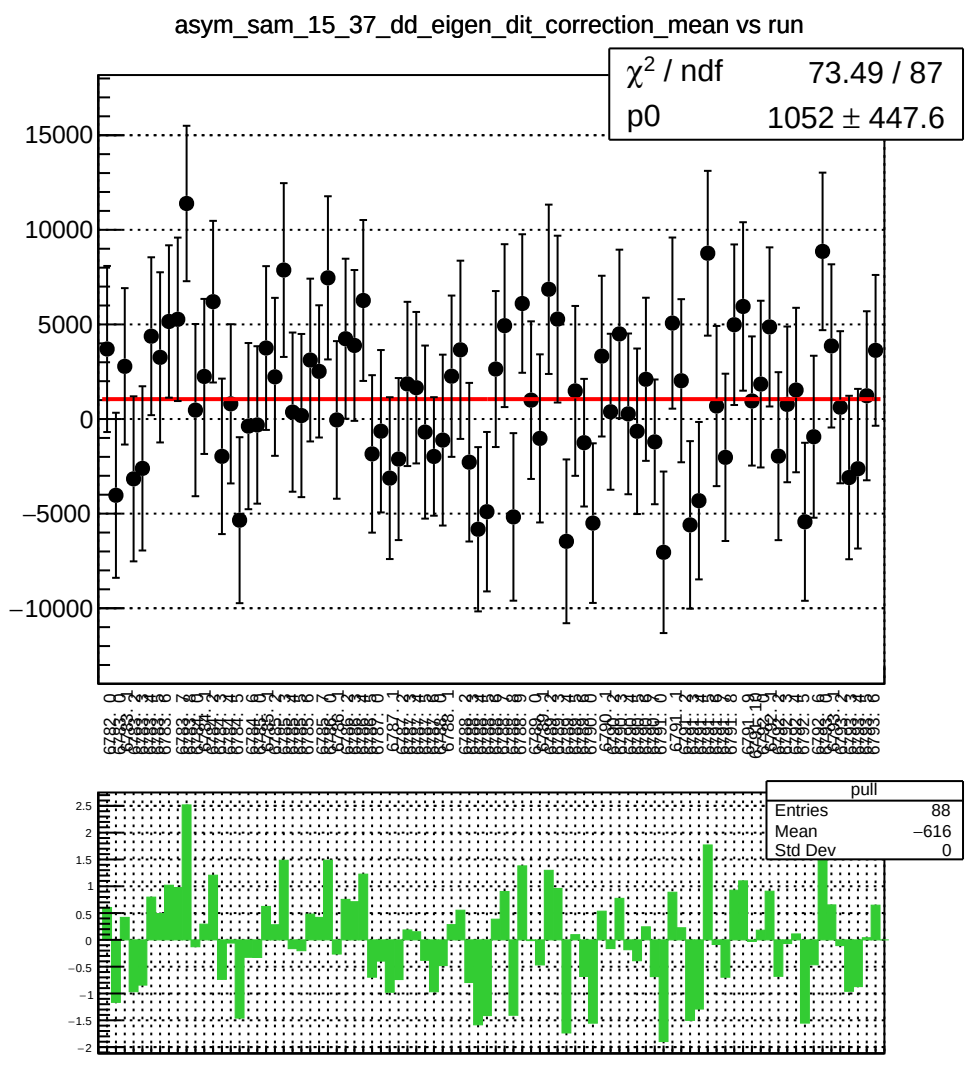

pull1D
Entries 88
Mean 0.003685
Std Dev 0.9139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

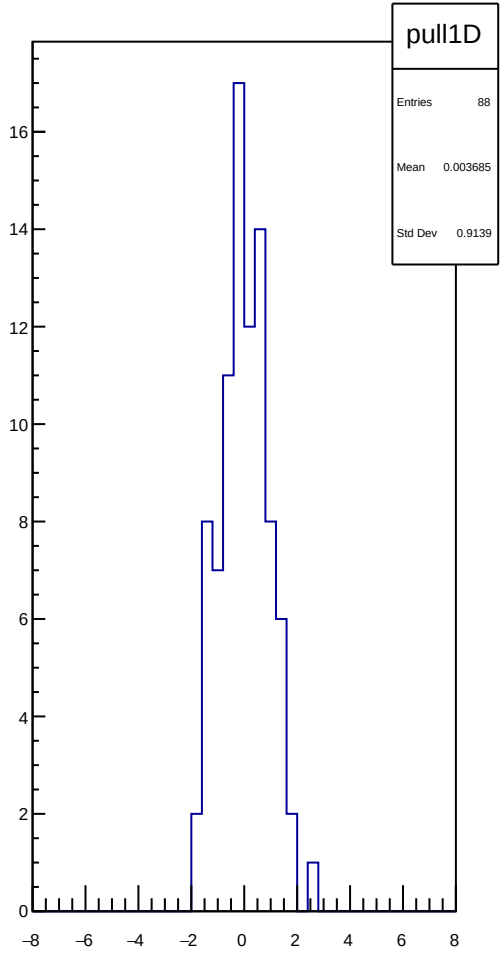

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1658 / 87
p0 406.9 ± 0.3165
450
440
430
420
410
400
390
380
370

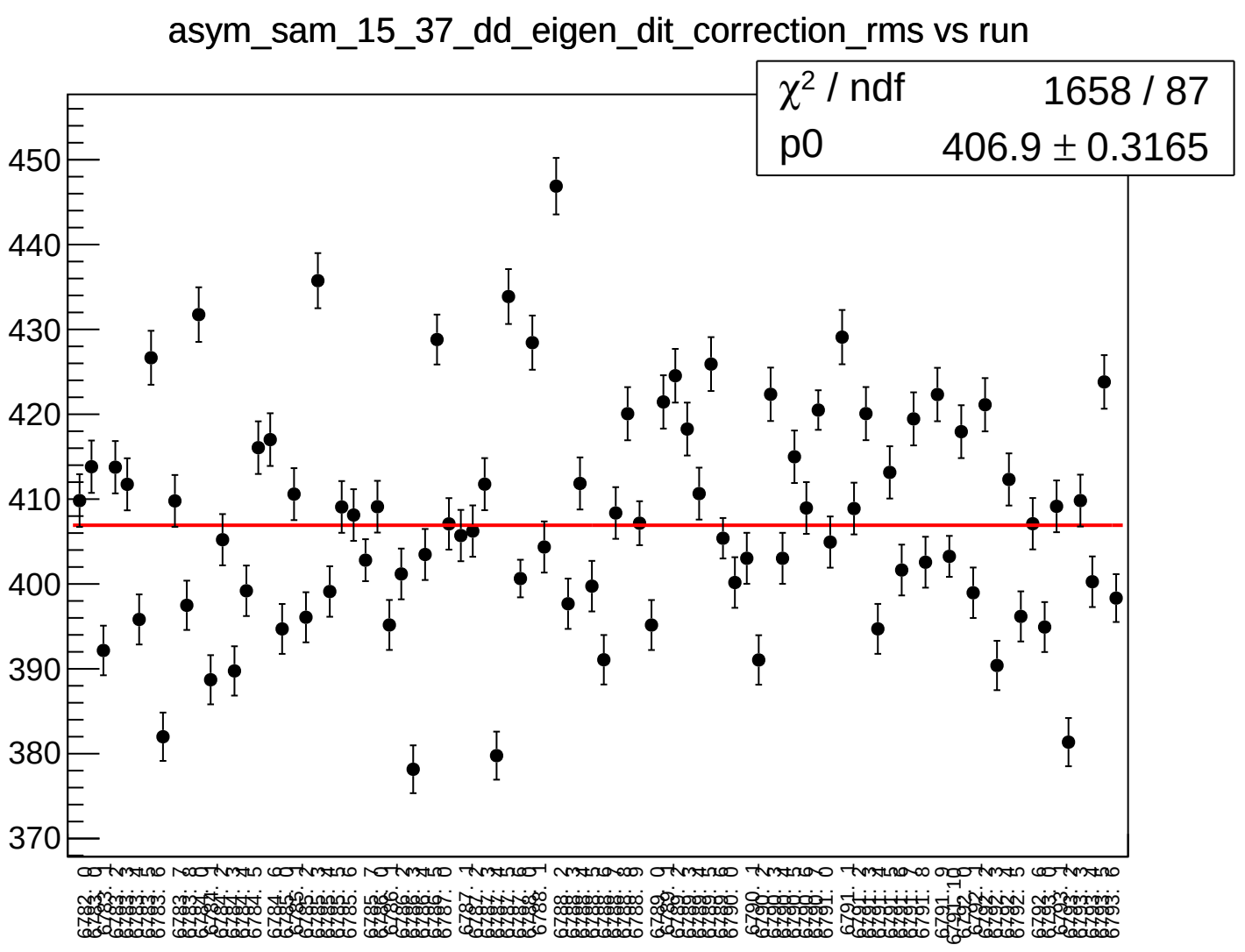

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 64.44 / 87
p0 −264.6 ± 59.07
pull
Entries 88
Mean −504.2
Std Dev 0

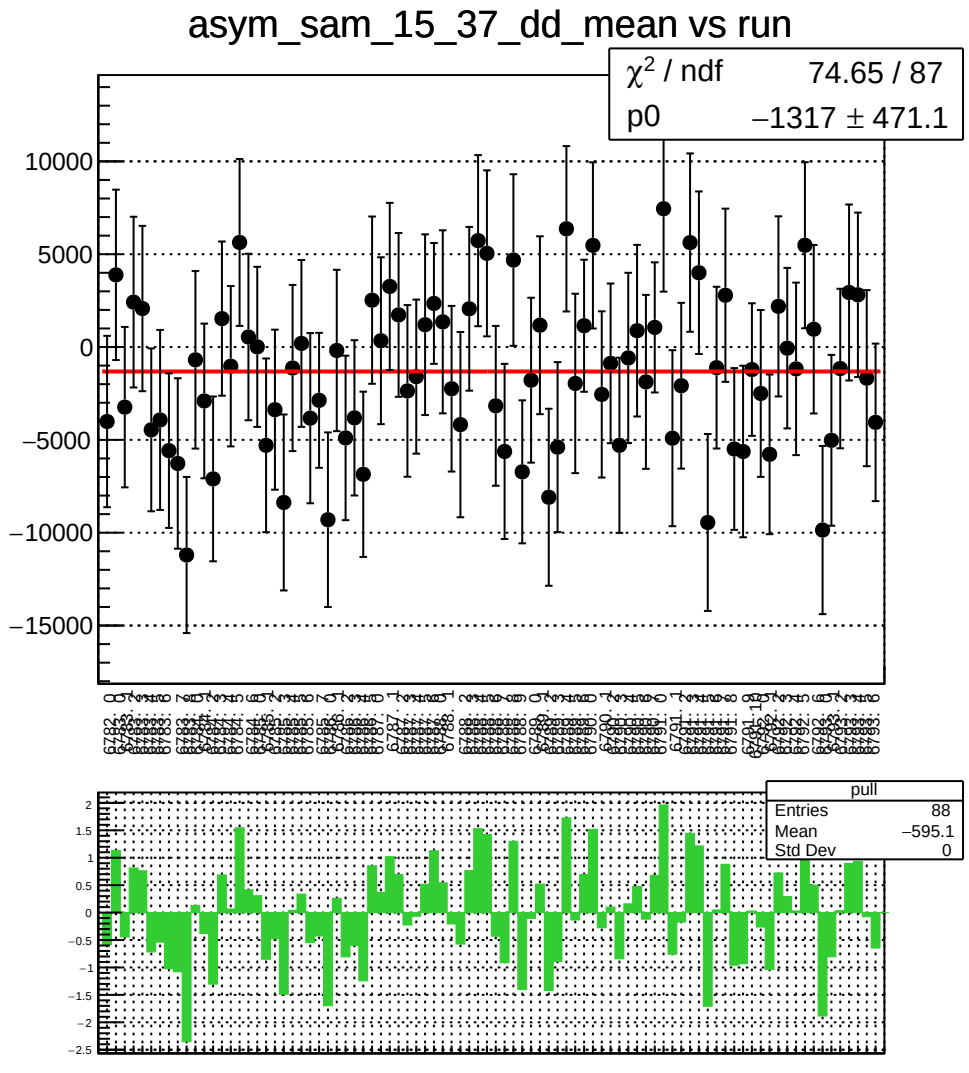

pull1D
Entries 88
Mean −0.007332
Std Dev 0.8557

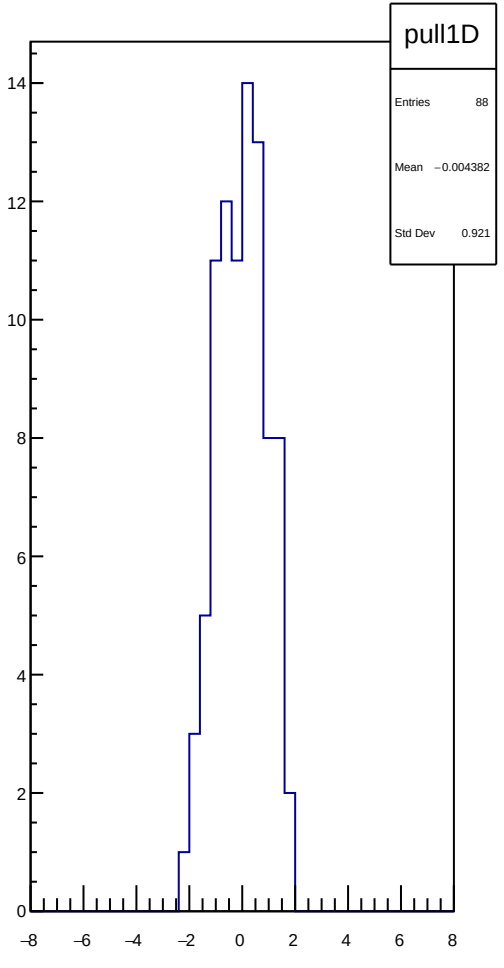

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.216e+04 / 87
p0 53.53 ± 0.04177
70
65
60
55
50
45

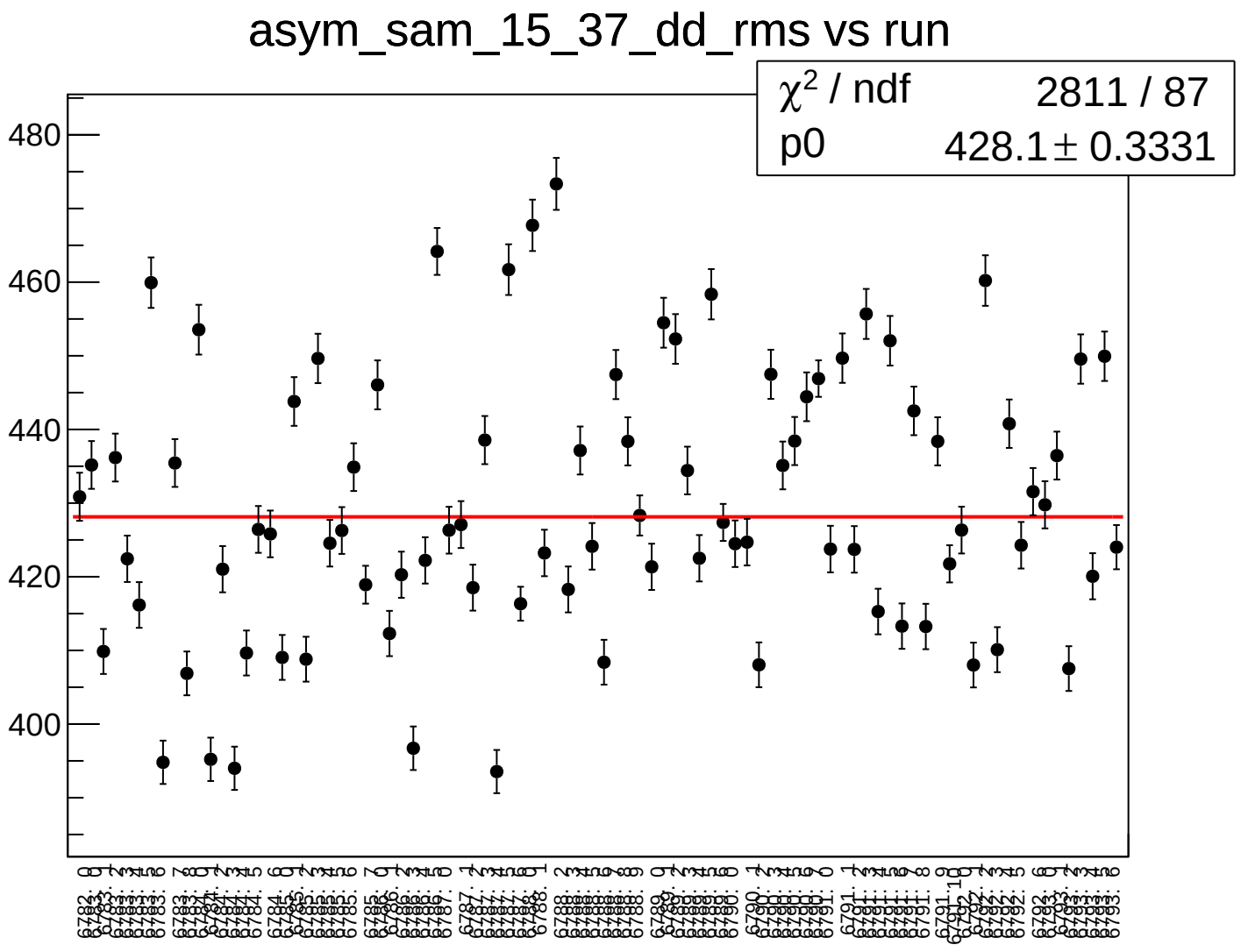

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.49 / 87
p0 1052 ± 447.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −616
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

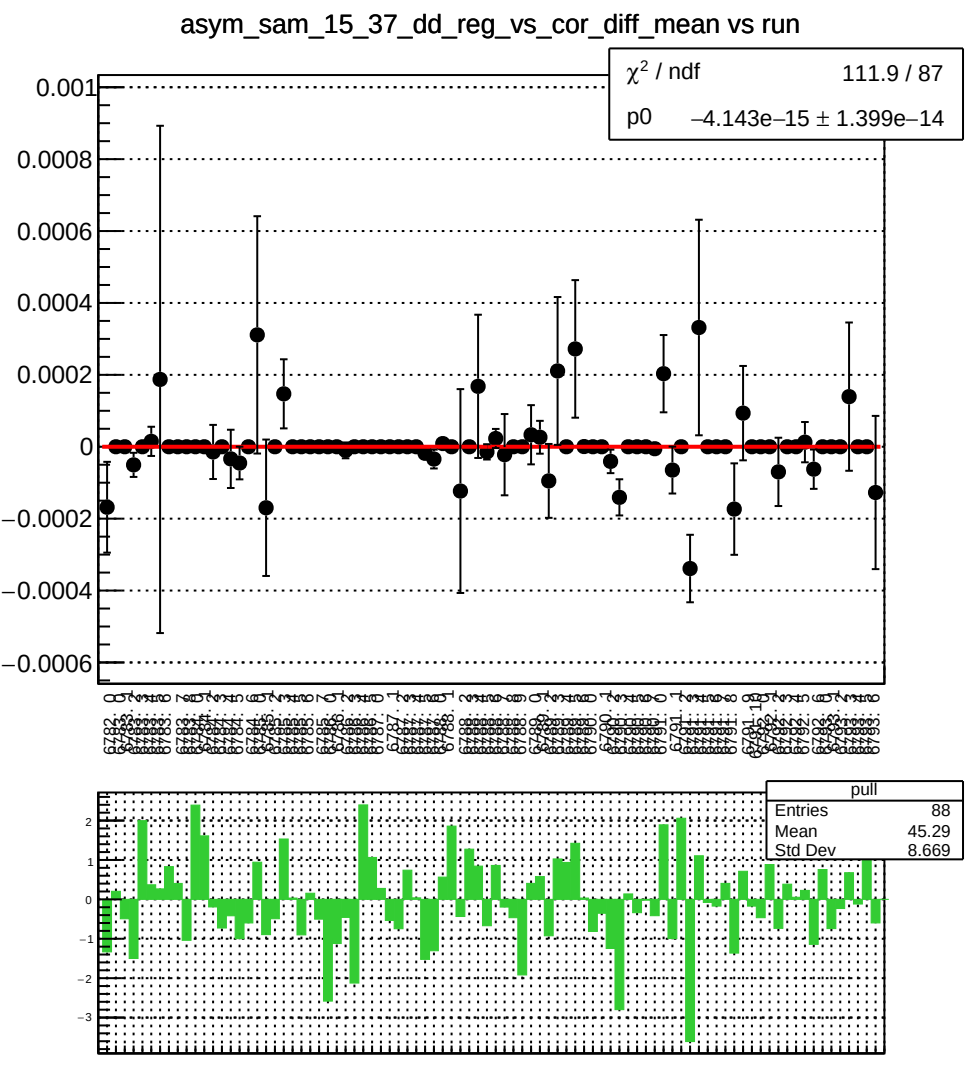

pull1D
Entries 88
Mean 0.003685
Std Dev 0.9139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

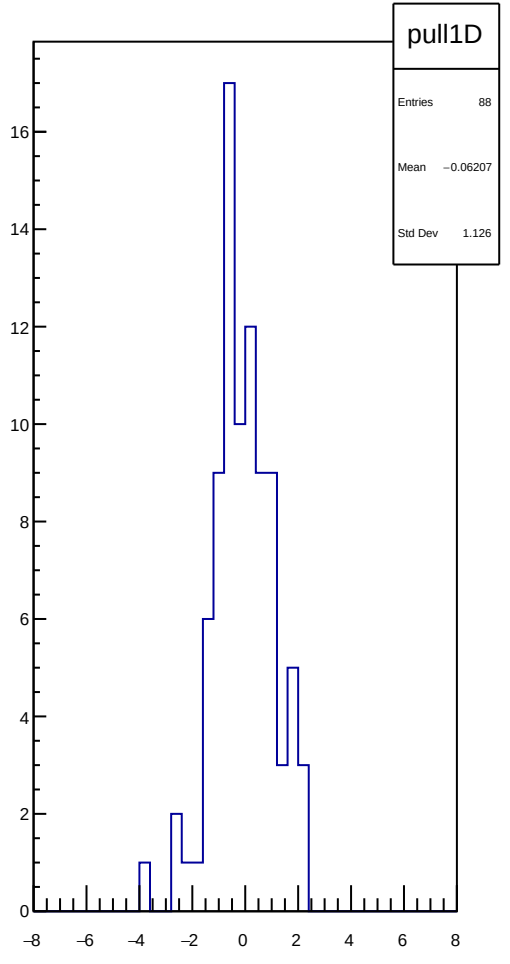

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1658 / 87
p0 406.9 ± 0.3165
450
440
430
420
410
400
390
380
370

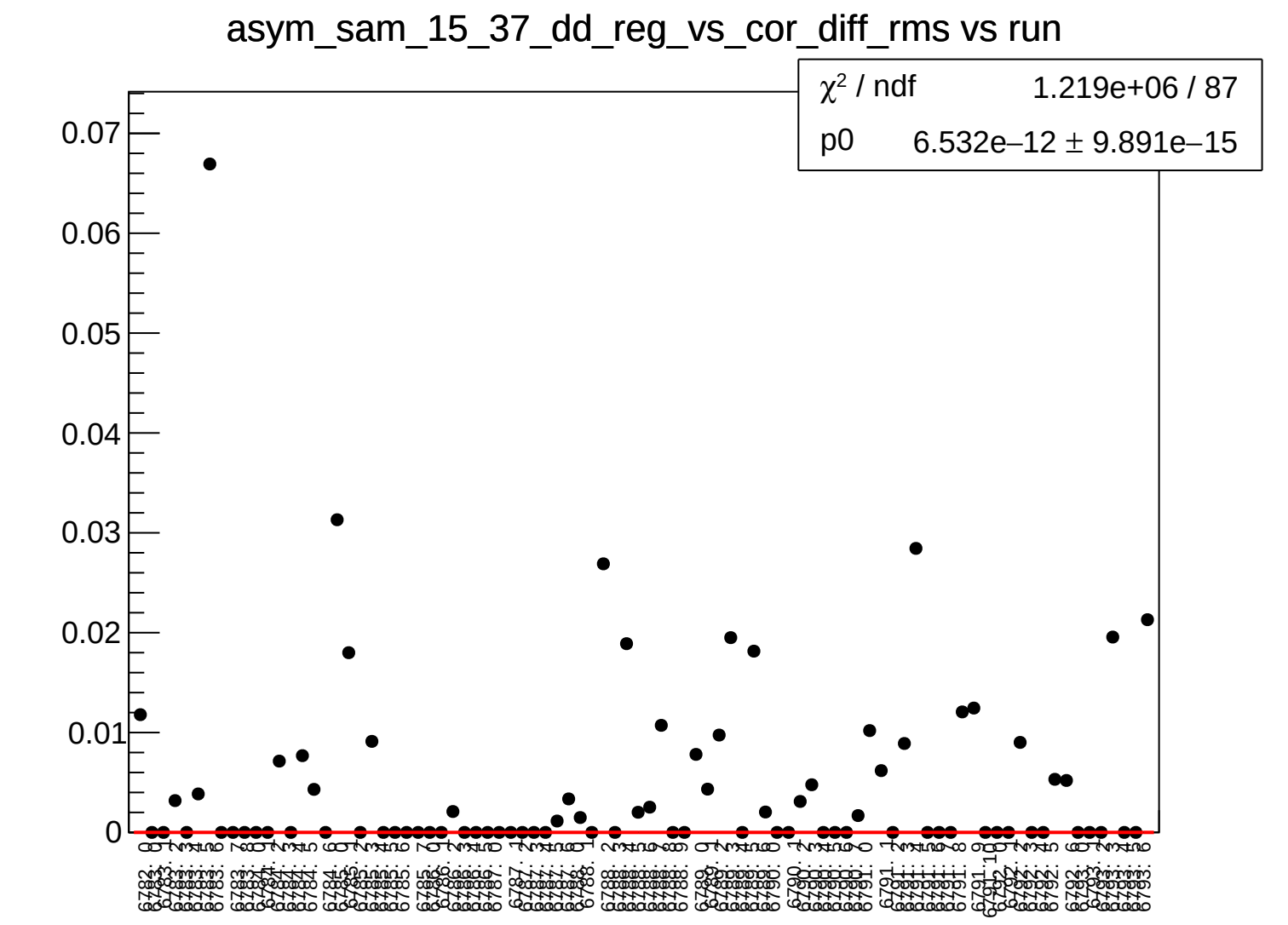

asym_sam_15_37_dd_mean vs run
χ² / ndf 74.65 / 87
p0 −1317 ± 471.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −595.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

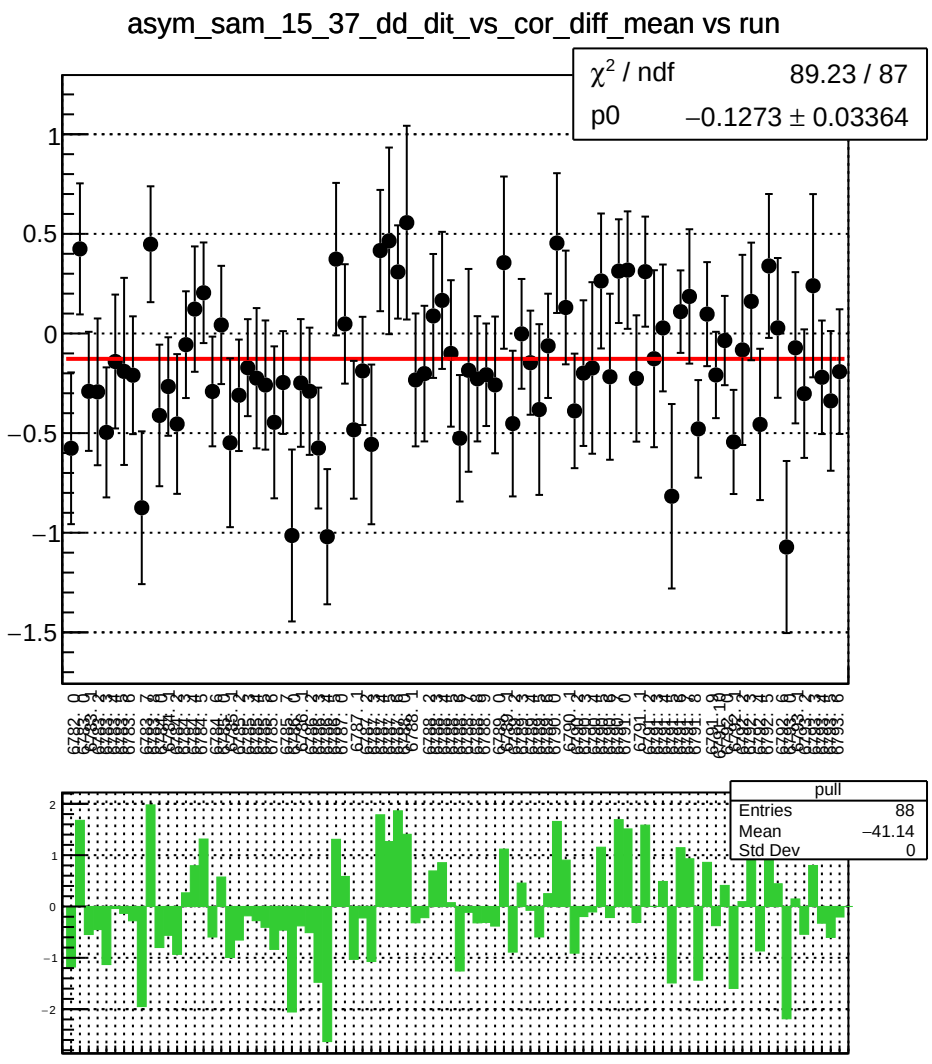

pull1D
Entries 88
Mean −0.004382
Std Dev 0.921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

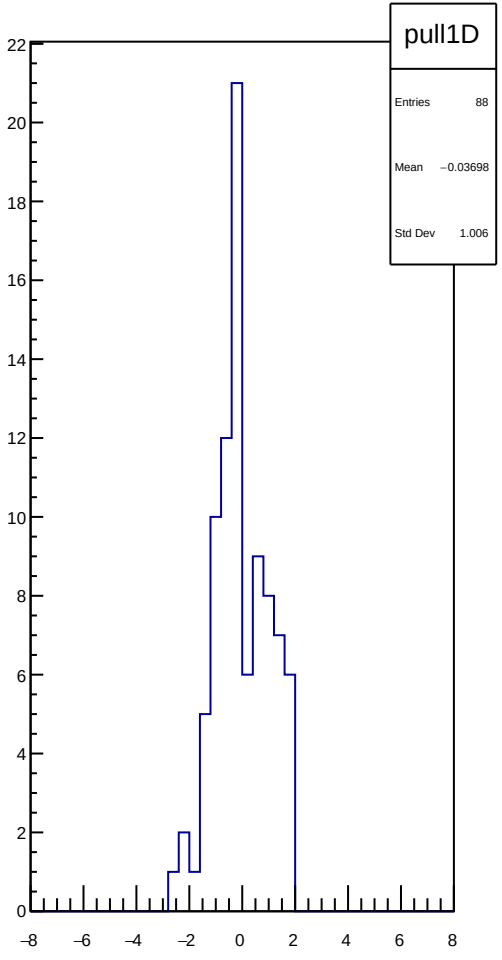

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2811 / 87
p0 428.1 ± 0.3331
480
460
440
420
400

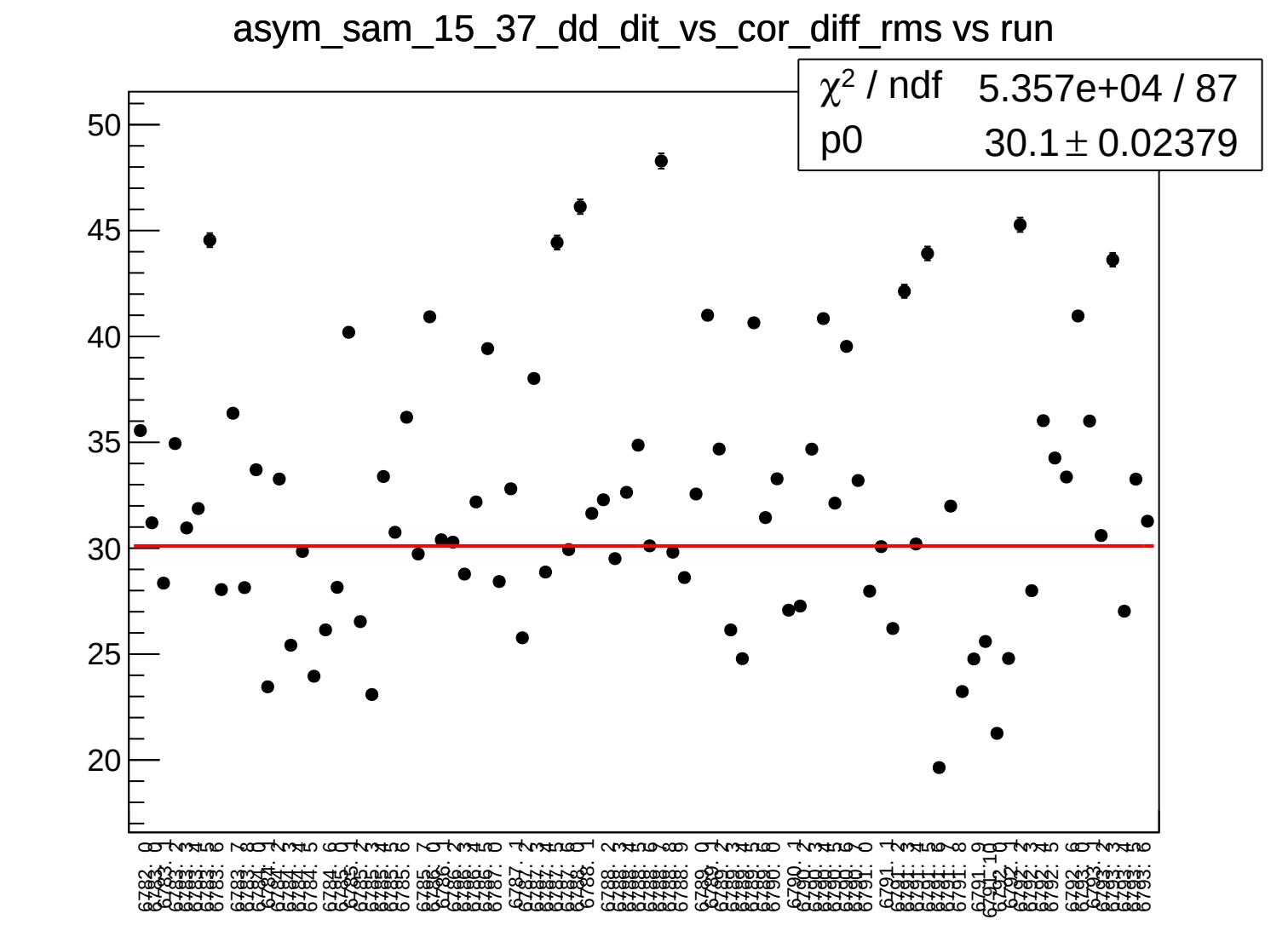

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.9 / 87
p0 −4.143e−15 ± 1.399e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 88
Mean 45.29
Std Dev 8.669
2
1
0
−1
−2
−3

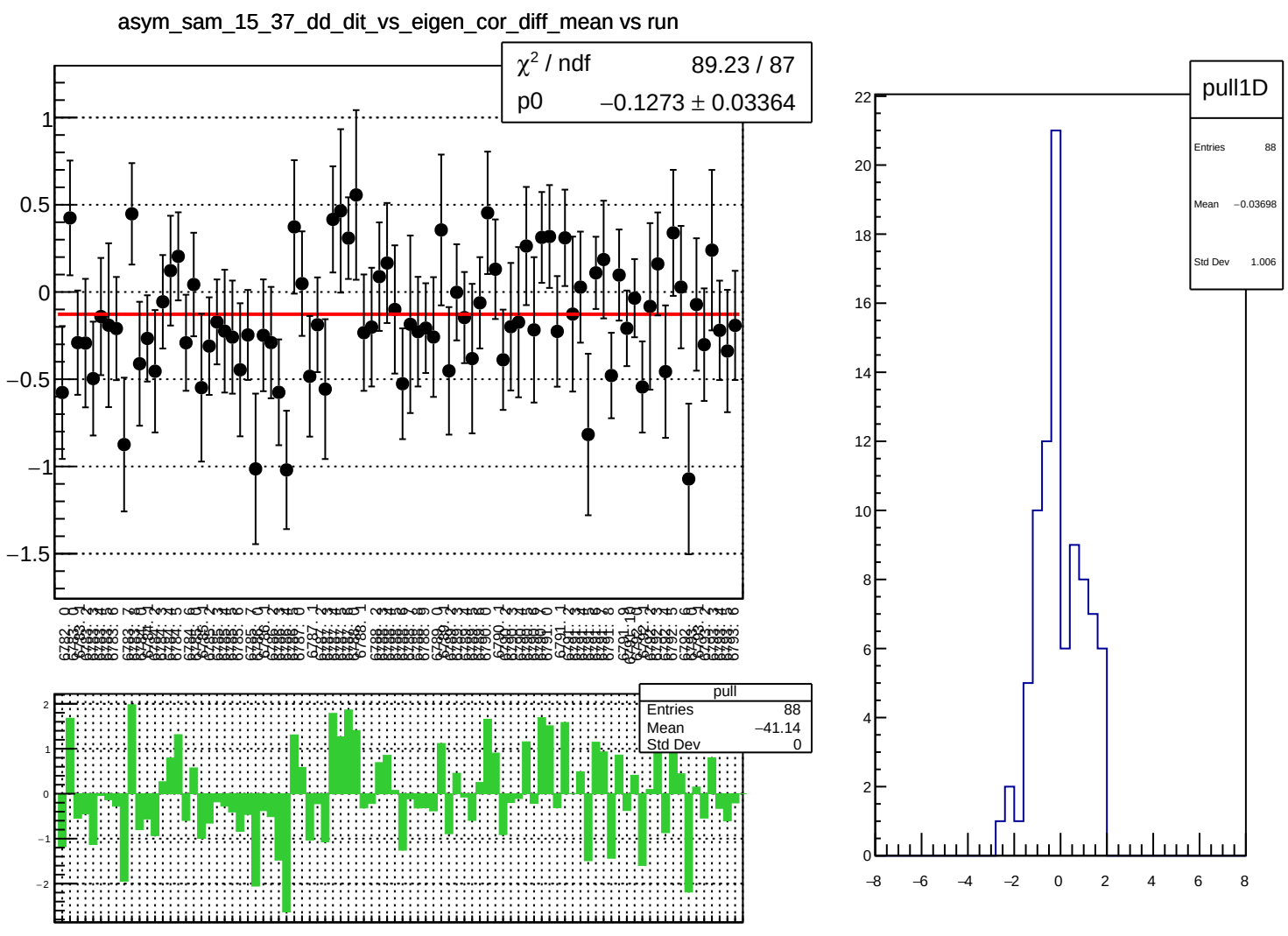

pull1D
Entries 88
Mean −0.06207
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

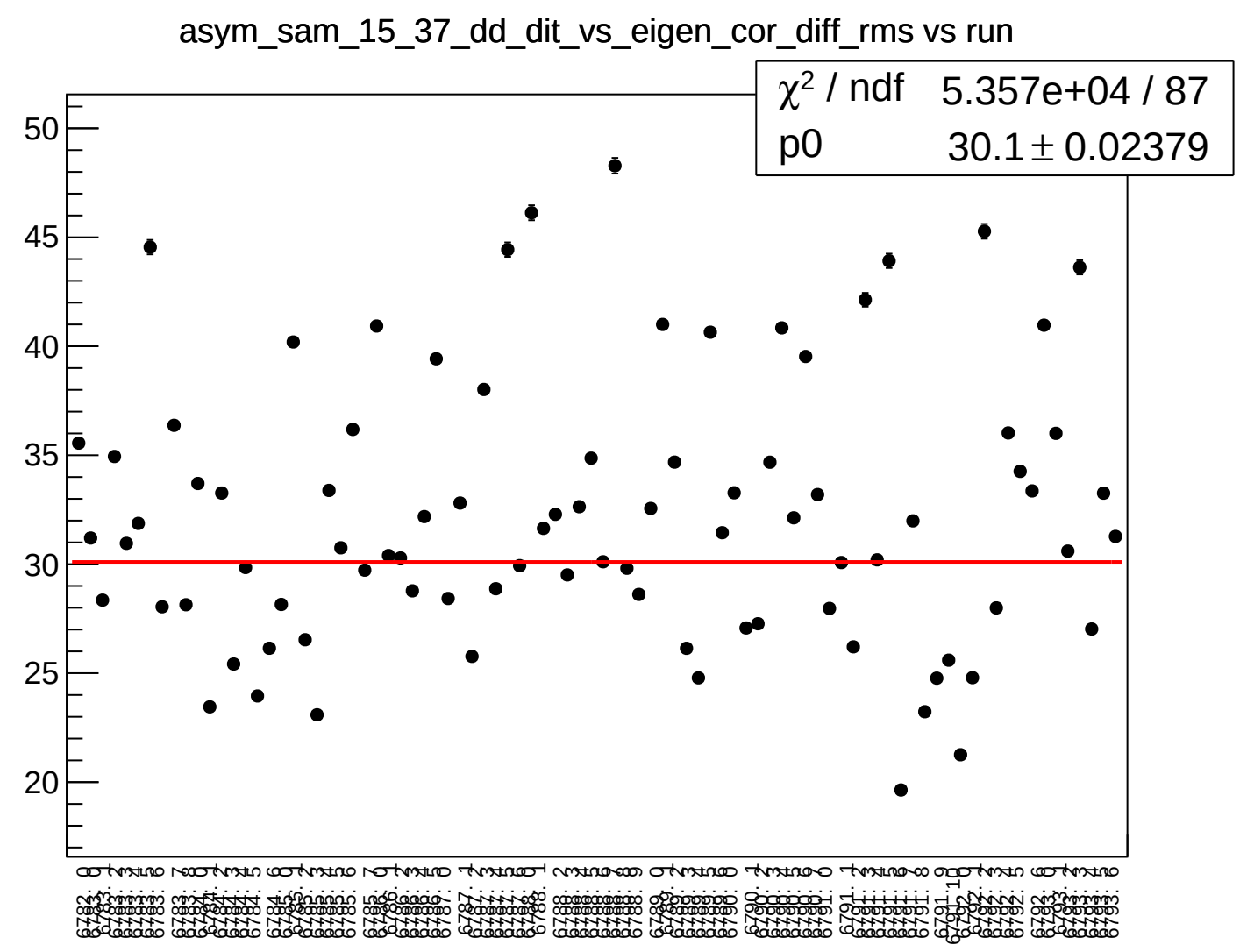

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.219e+06 / 87
p0 6.532e−12 ± 9.891e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

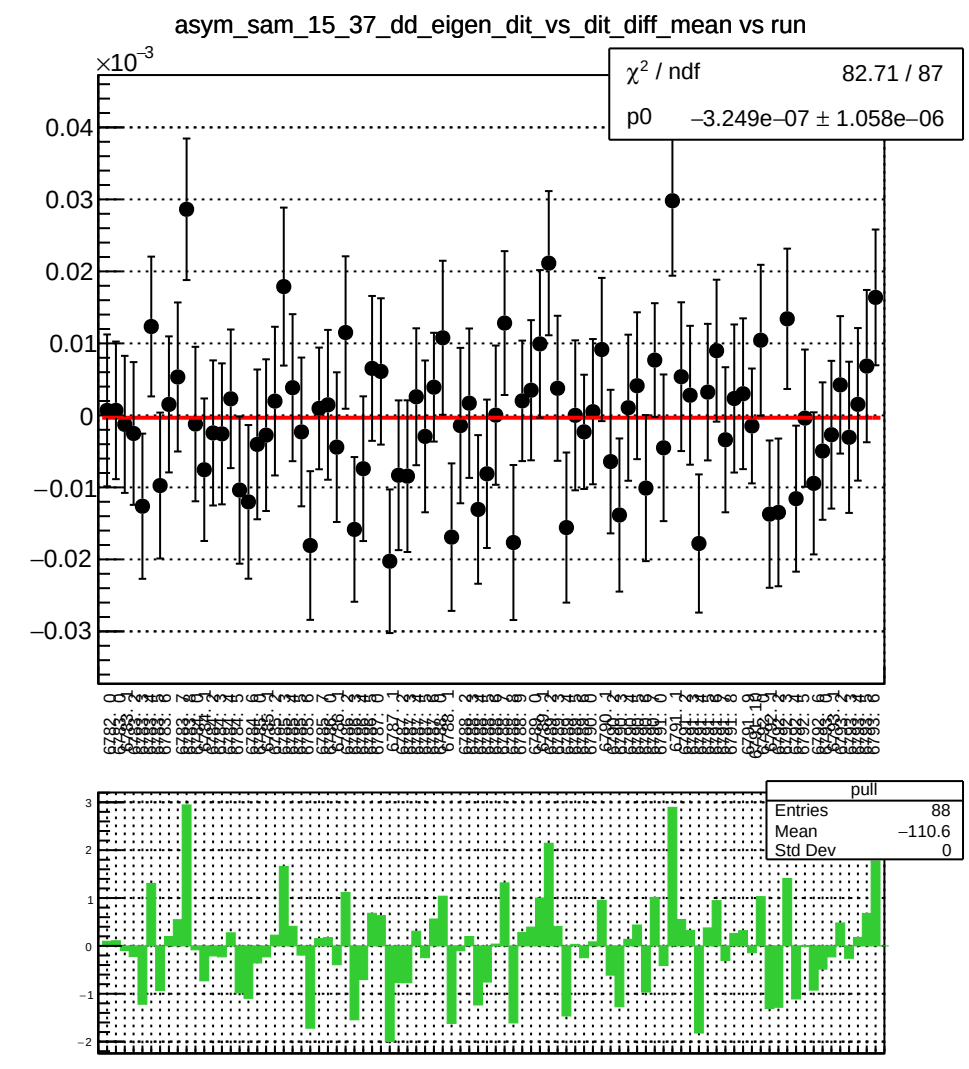

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.23 / 87
p0 −0.1273 ± 0.03364
pull
Entries 88
Mean −41.14
Std Dev 0

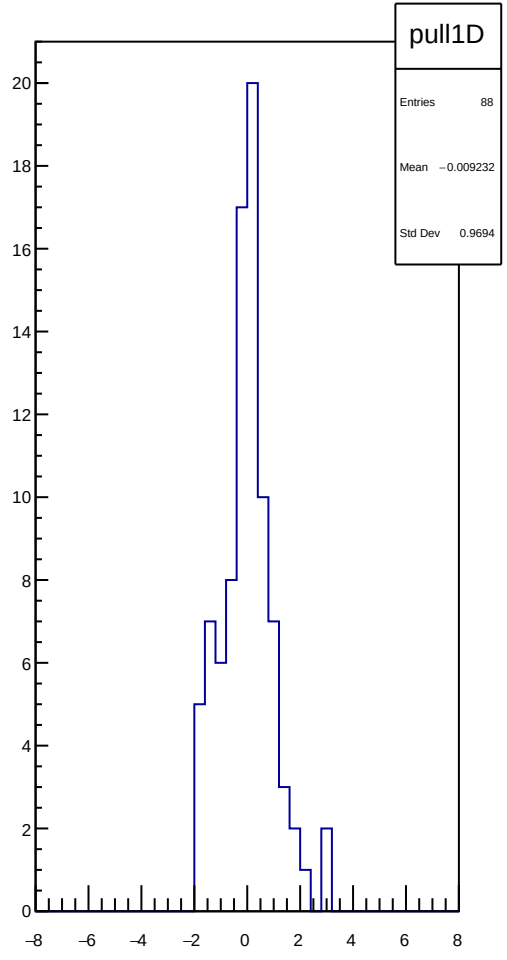

pull1D
Entries 88
Mean −0.03698
Std Dev 1.006

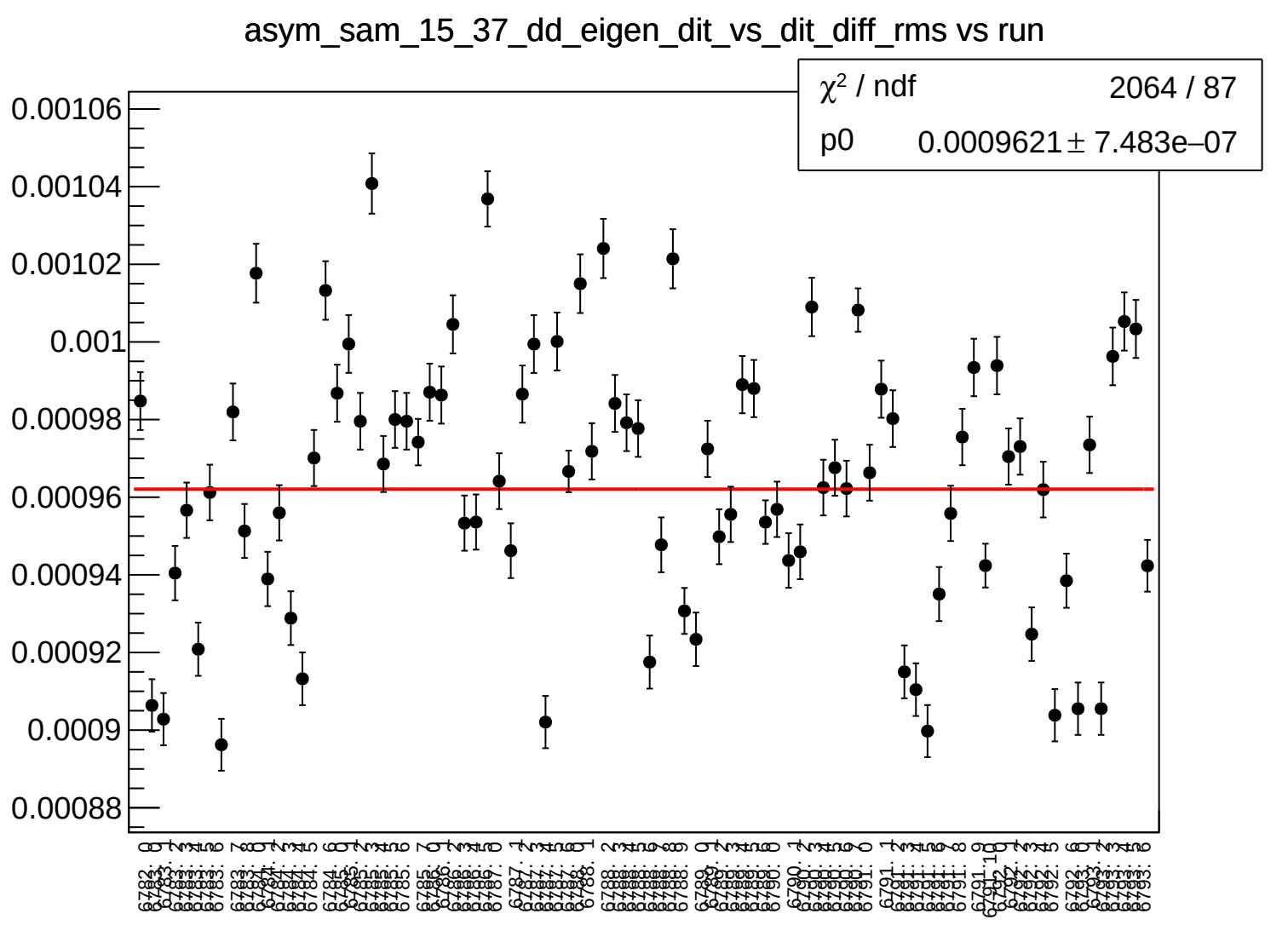

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.357e+04 / 87
p0 30.1 ± 0.02379
50
45
40
35
30
25
20

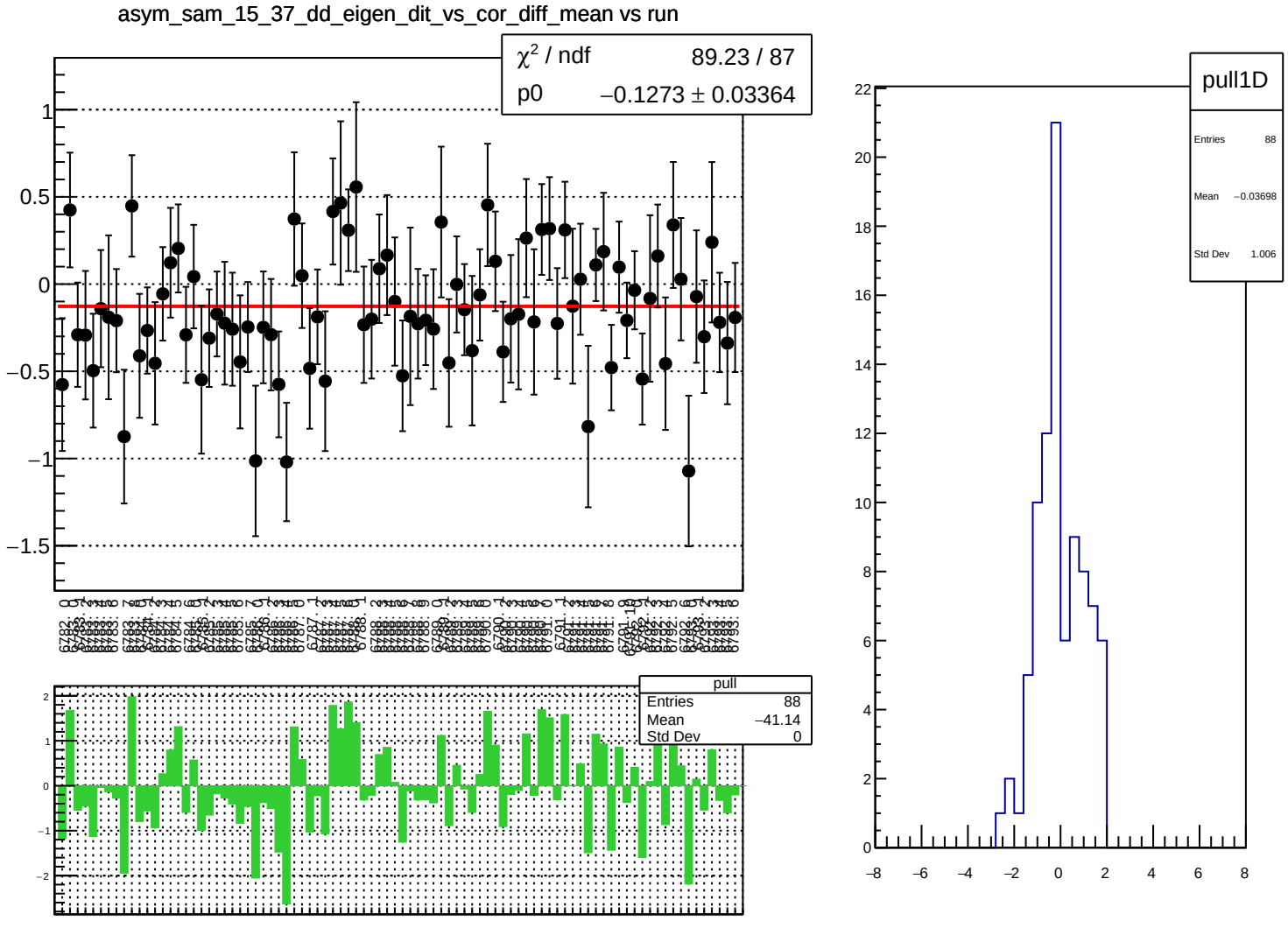

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.23 / 87
p0 −0.1273 ± 0.03364
pull
Entries 88
Mean −41.14
Std Dev 0
pull1D
Entries 88
Mean −0.03698
Std Dev 1.006

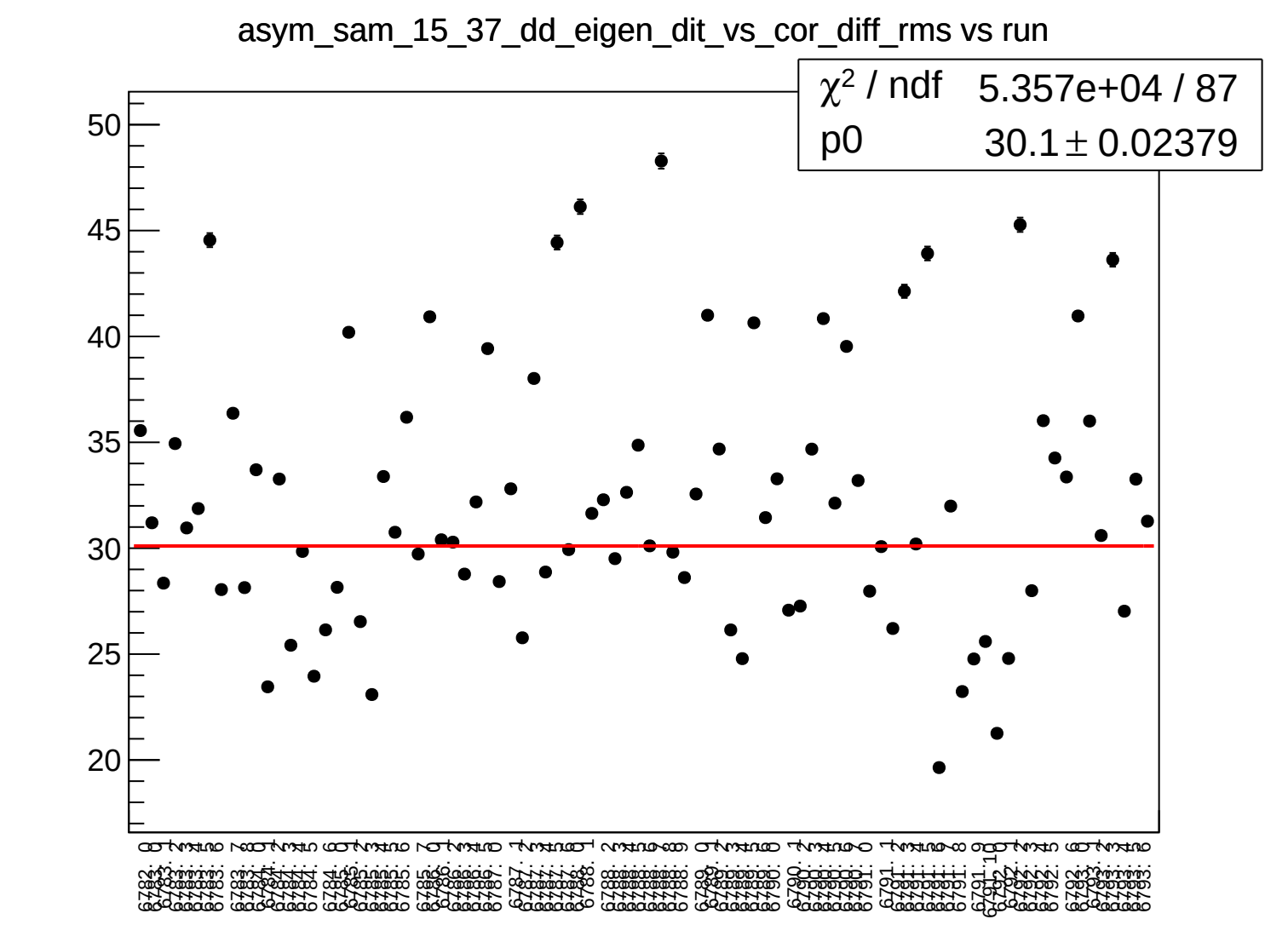

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.357e+04 / 87
p0 30.1 ± 0.02379
50
45
40
35
30
25
20

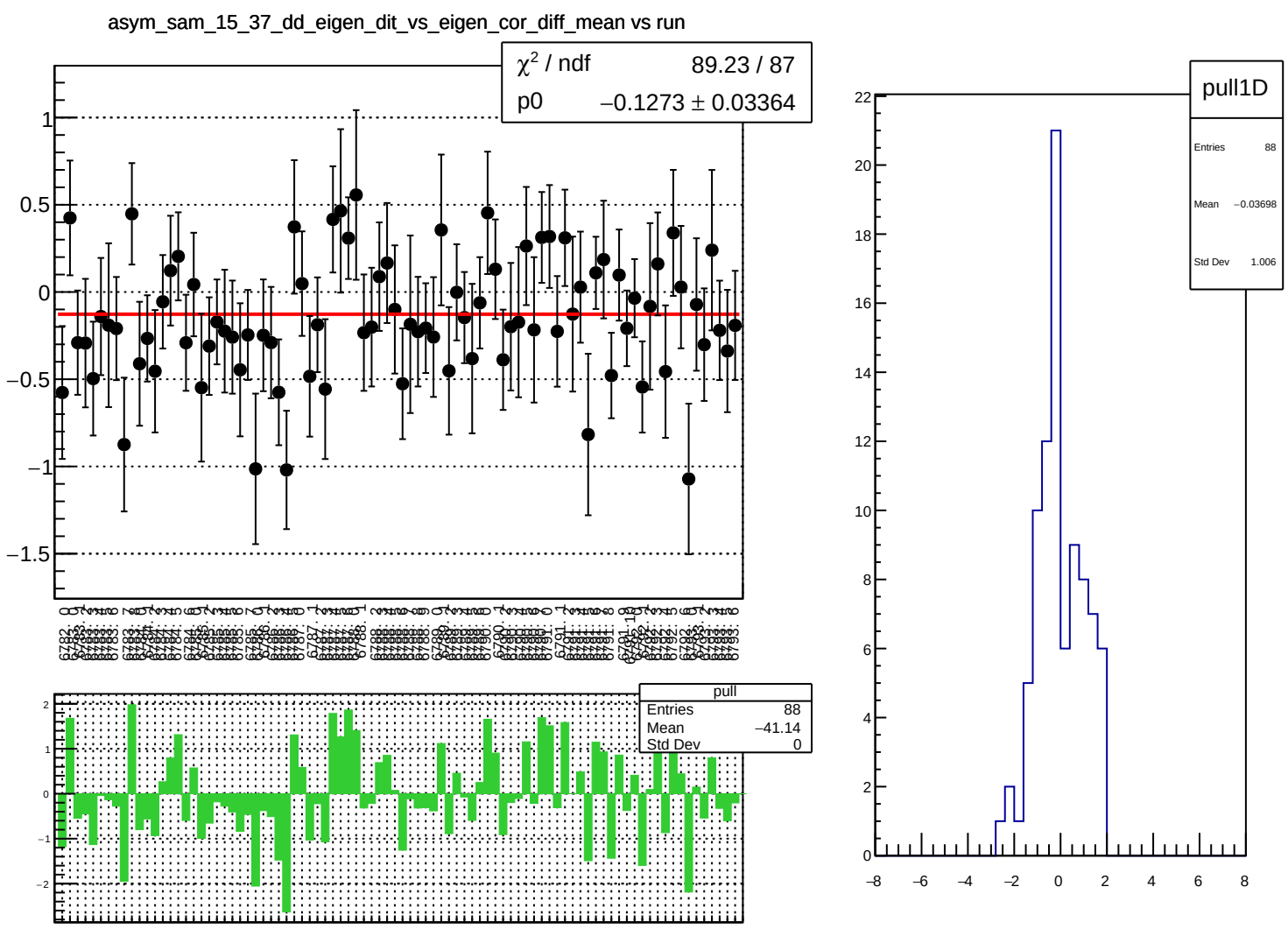

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.71 / 87
p0 −3.249e−07 ± 1.058e−06
pull
Entries 88
Mean −110.6
Std Dev 0

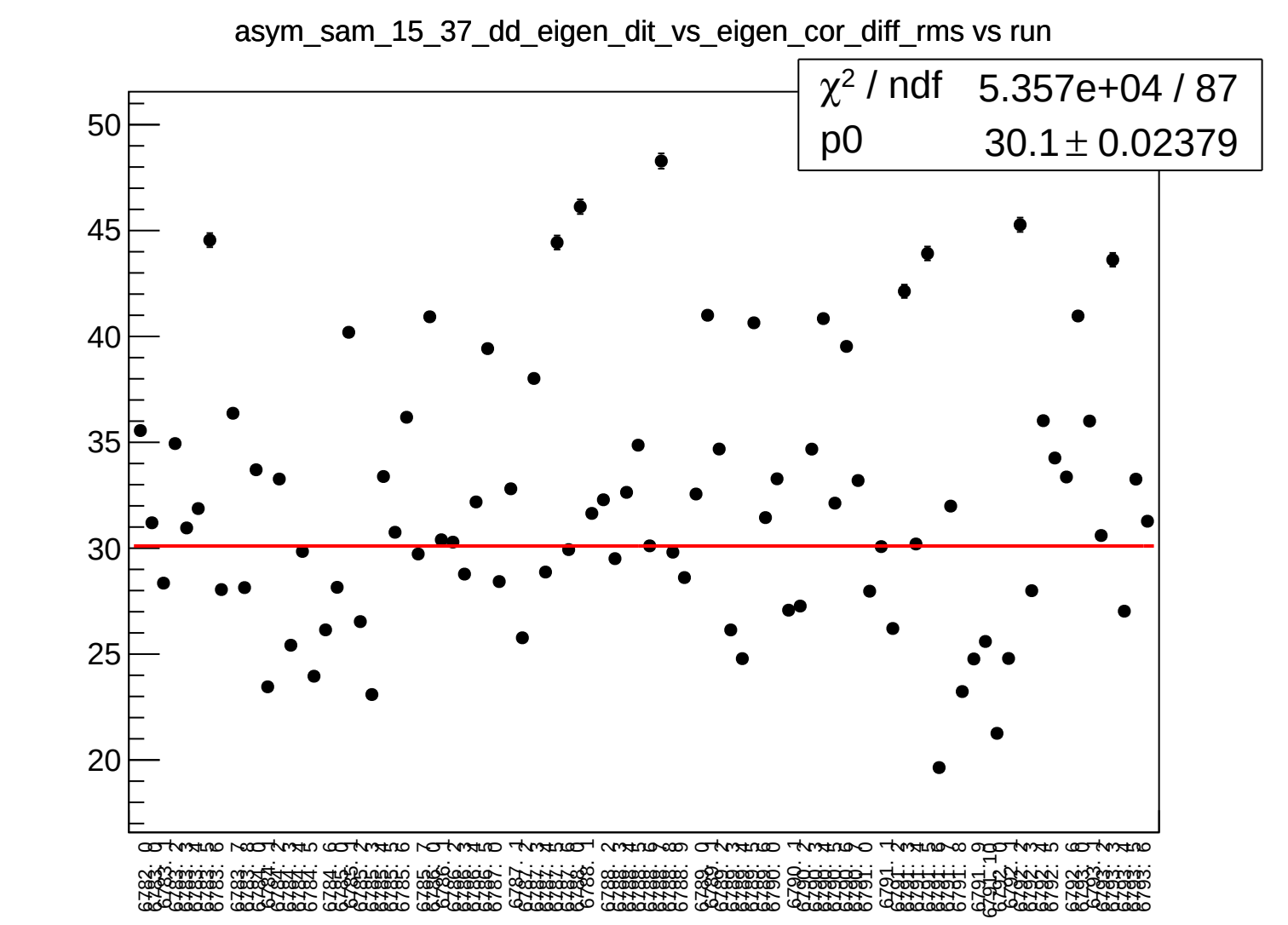

pull1D
Entries 88
Mean −0.009232
Std Dev 0.9694

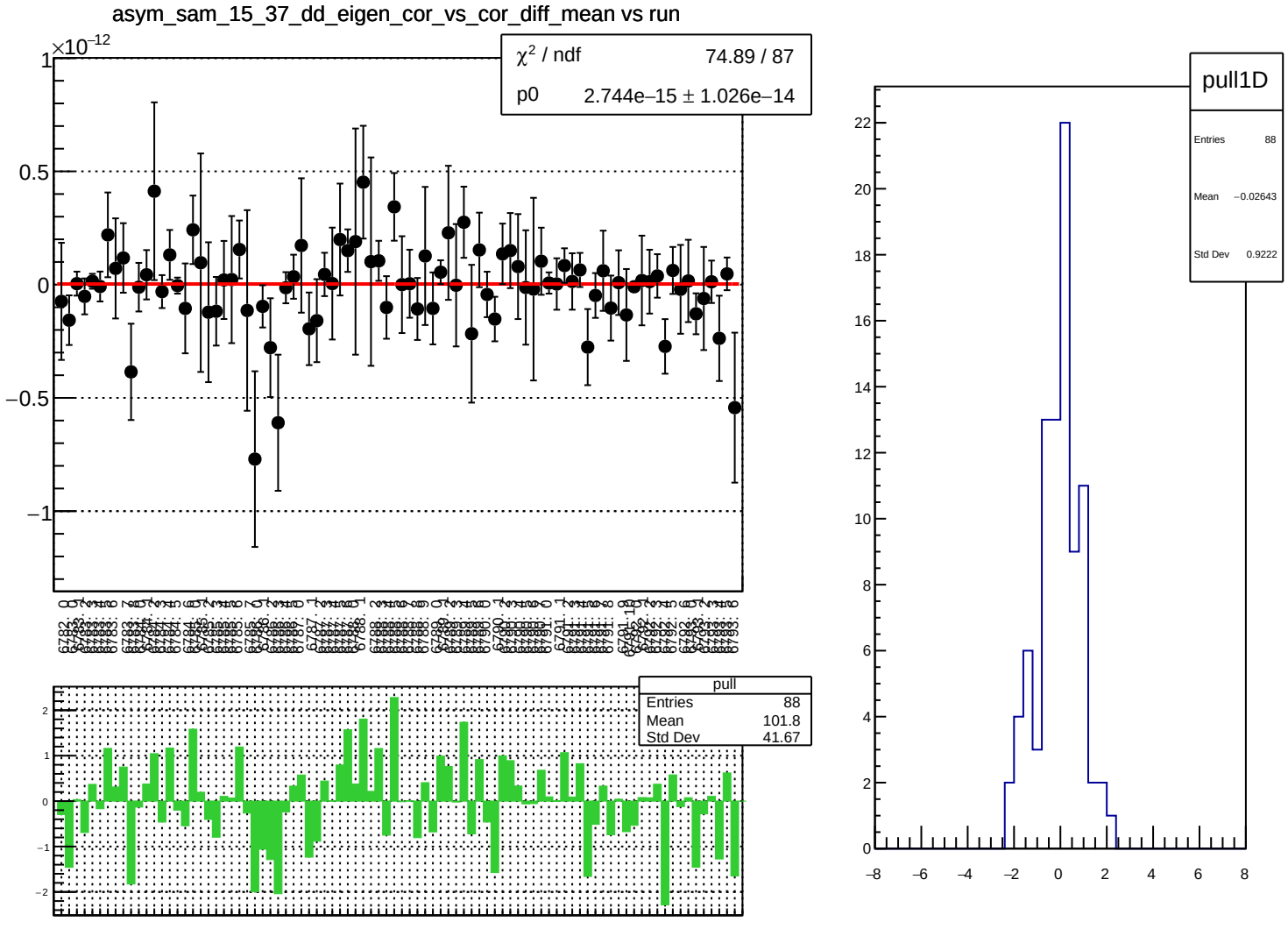

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2064 / 87
p0 0.0009621 ± 7.483e−07
0.00106
0.00104
0.00102
0.001
0.00098
0.00096
0.00094
0.00092
0.0009
0.00088

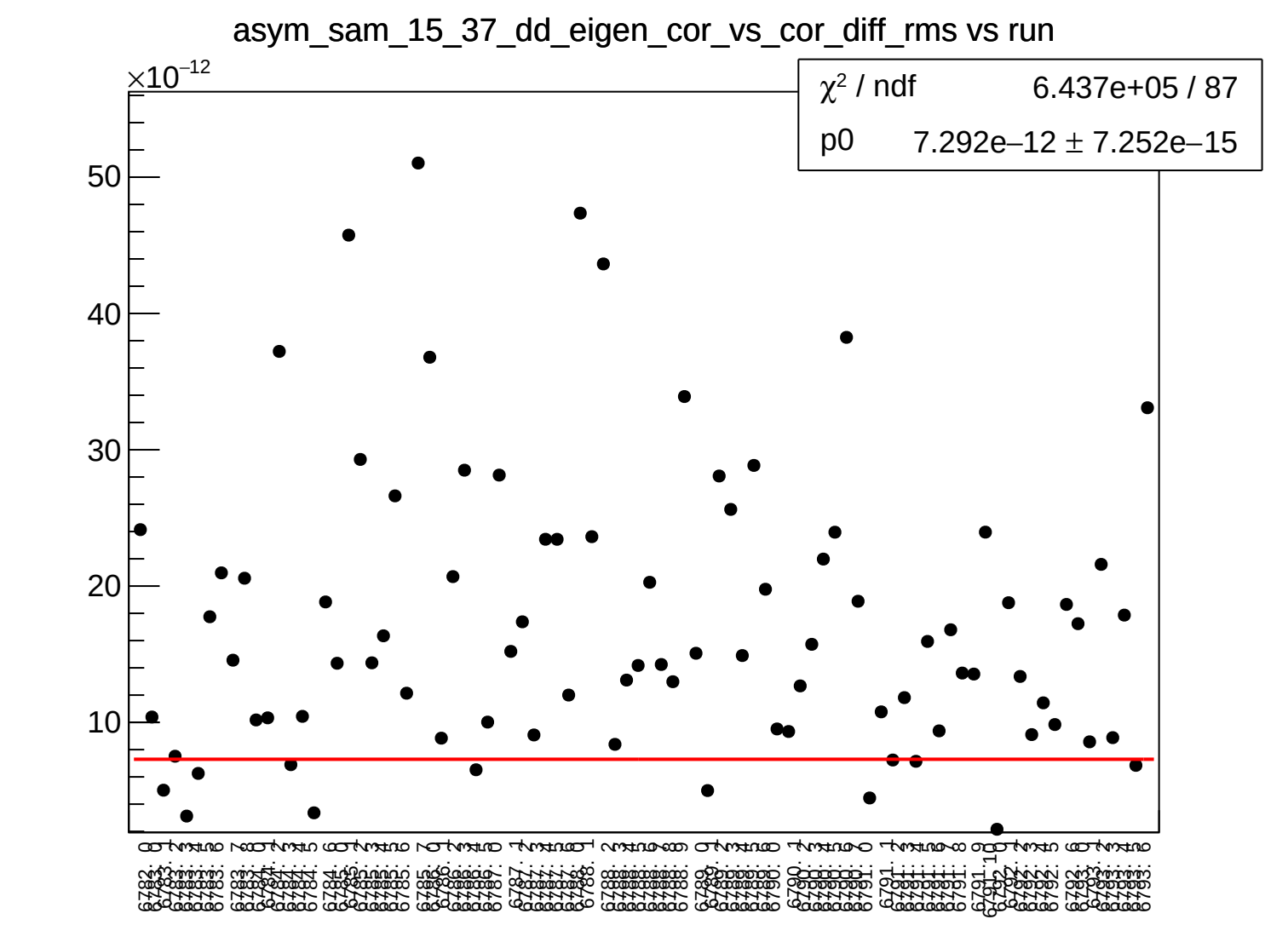

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.23 / 87
p0 −0.1273 ± 0.03364
pull
Entries 88
Mean −41.14
Std Dev 0
pull1D
Entries 88
Mean −0.03698
Std Dev 1.006

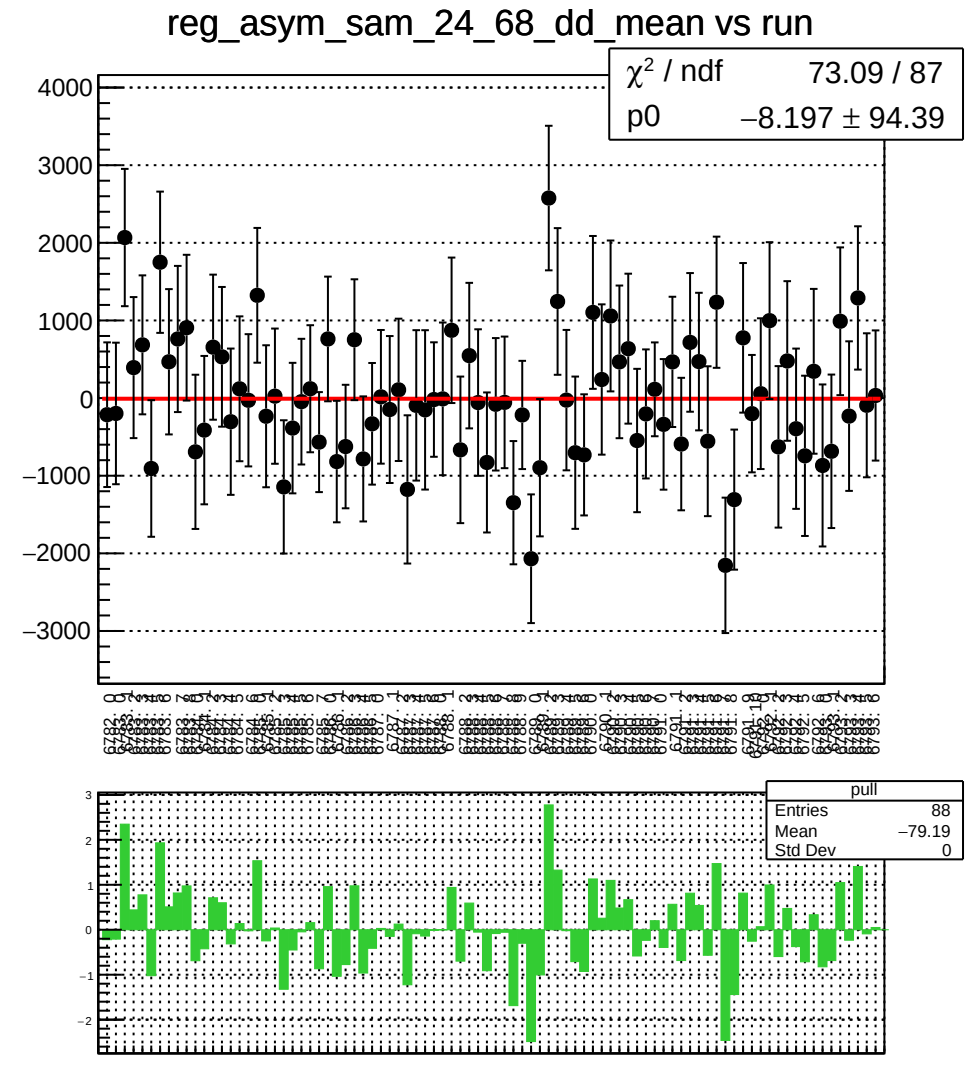

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.357e+04 / 87
p0 30.1 ± 0.02379
50
45
40
35
30
25
20

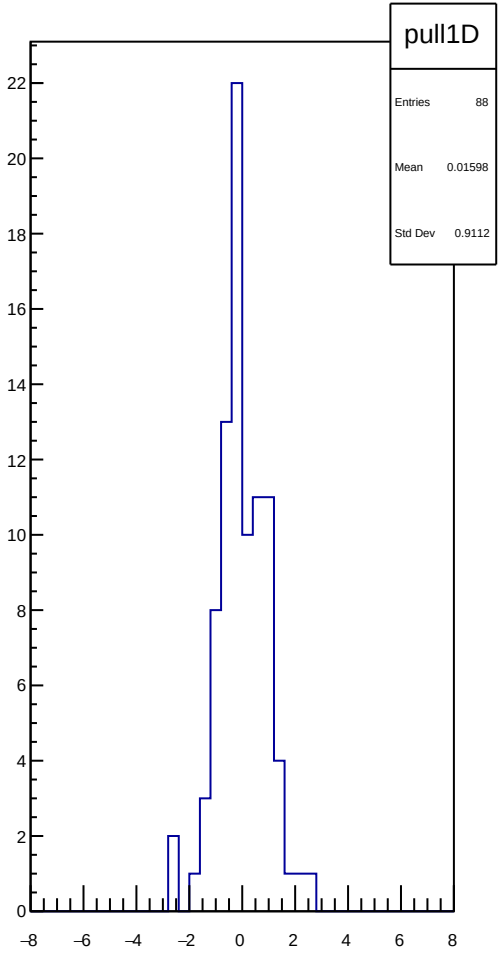

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.23 / 87
p0 −0.1273 ± 0.03364
pull
Entries 88
Mean −41.14
Std Dev 0
pull1D
Entries 88
Mean −0.03698
Std Dev 1.006

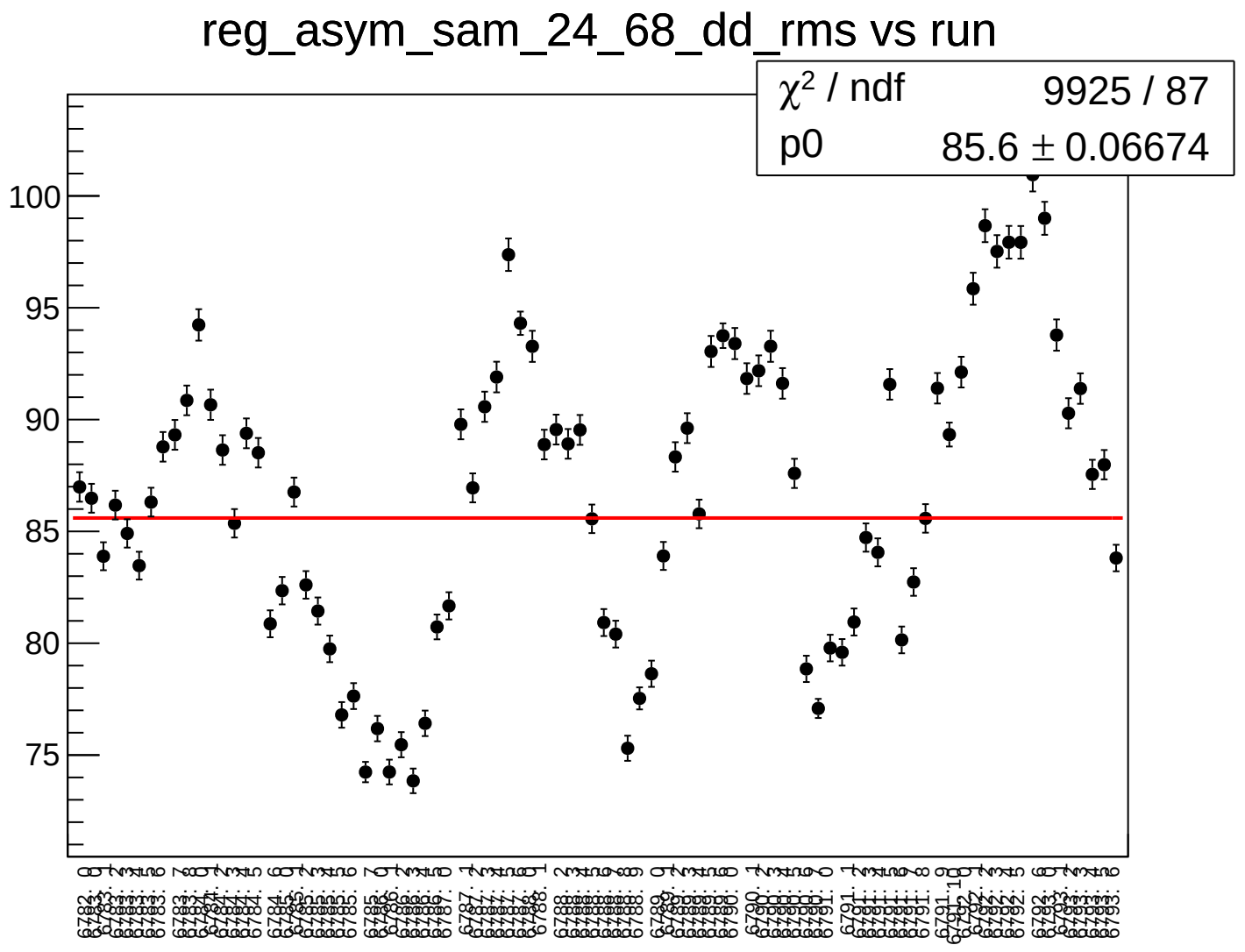

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.357e+04 / 87
p0 30.1 ± 0.02379
50
45
40
35
30
25
20

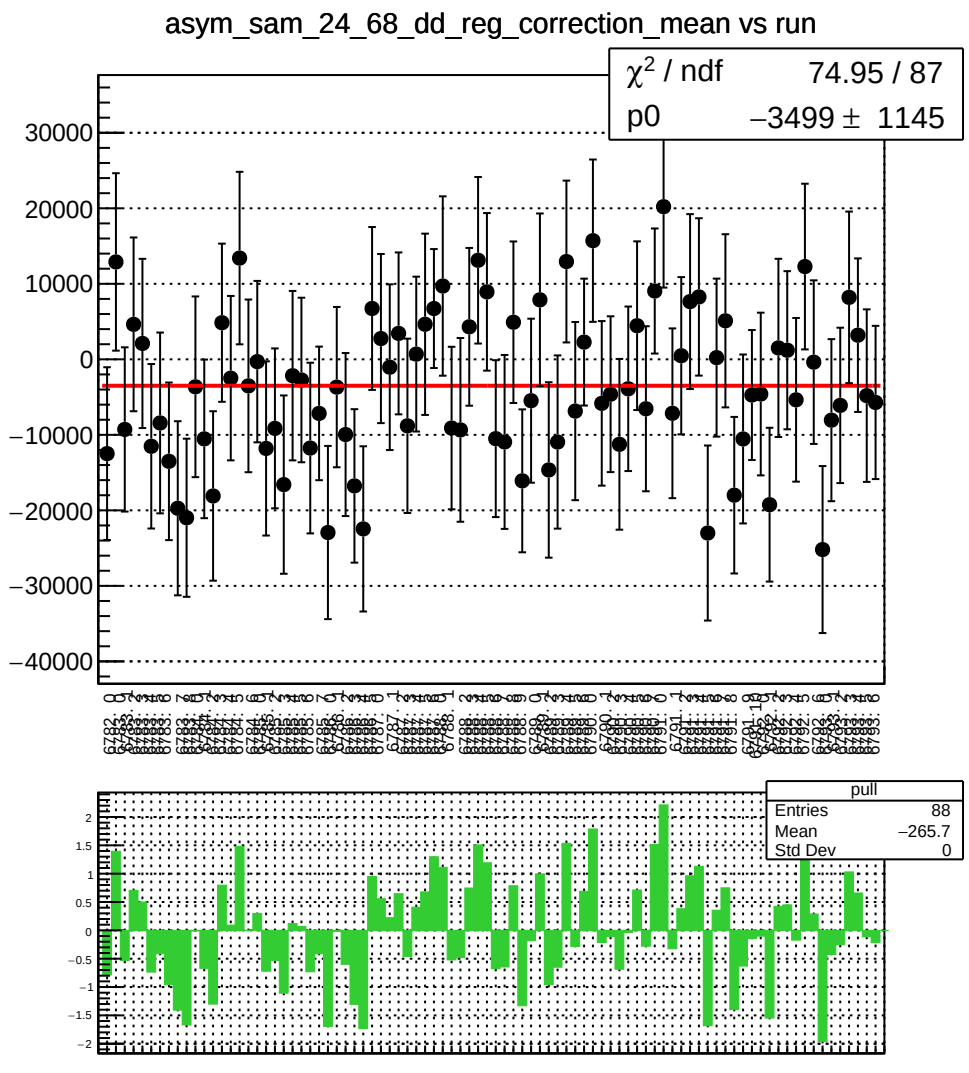

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.89 / 87
p0 2.744e−15 ± 1.026e−14
pull
Entries 88
Mean 101.8
Std Dev 41.67
pull1D
Entries 88
Mean −0.02643
Std Dev 0.9222

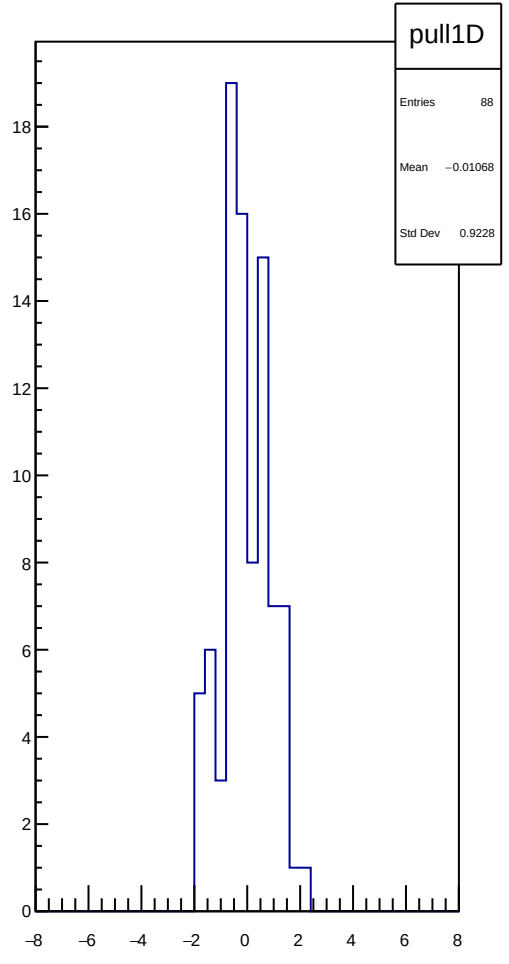

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.437e+05 / 87
p0 7.292e−12 ± 7.252e−15
50
40
30
20
10

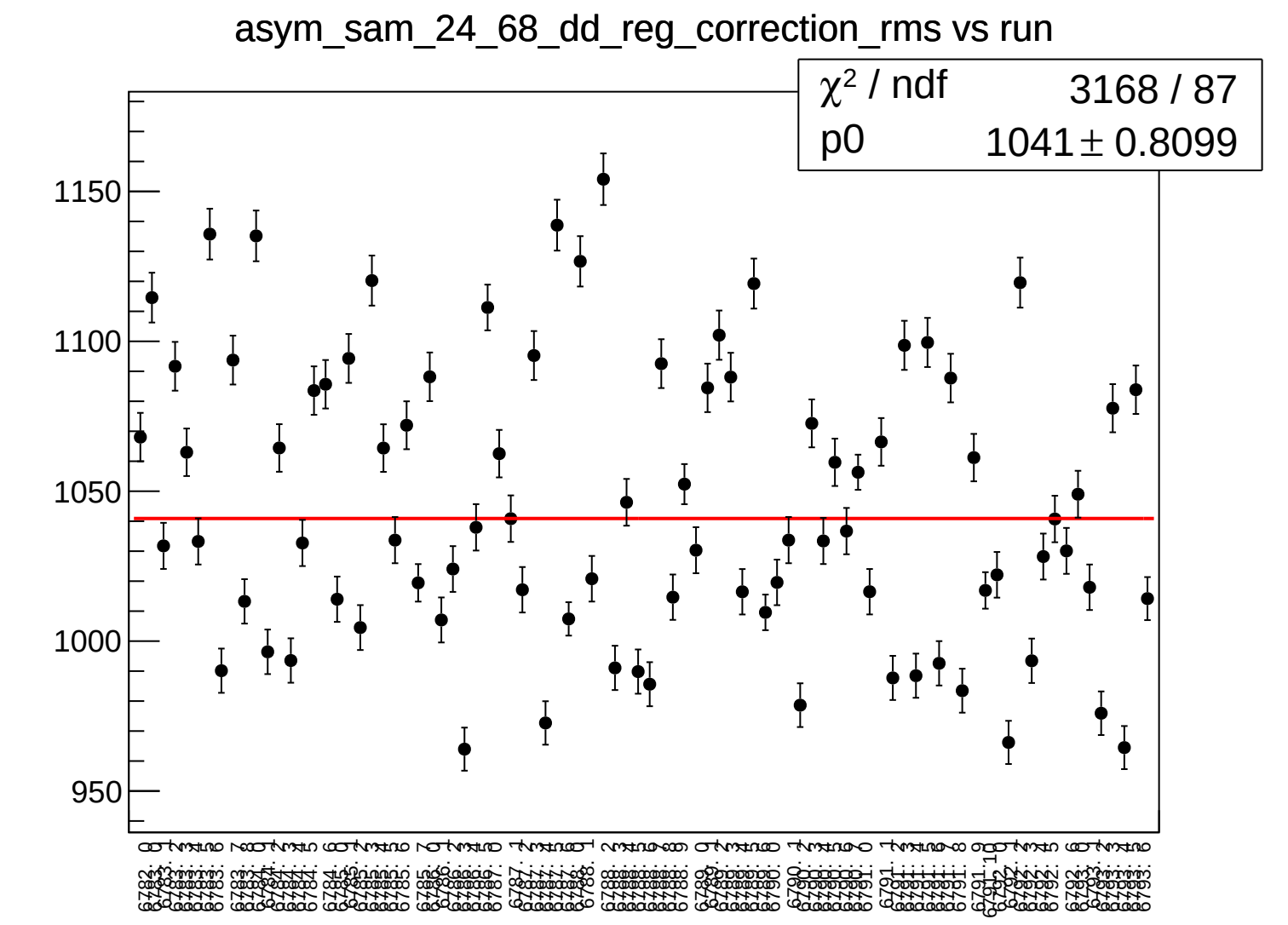

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 73.09 / 87
p0 −8.197 ± 94.39
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −79.19
Std Dev 0
3
2
1
0
−1
−2

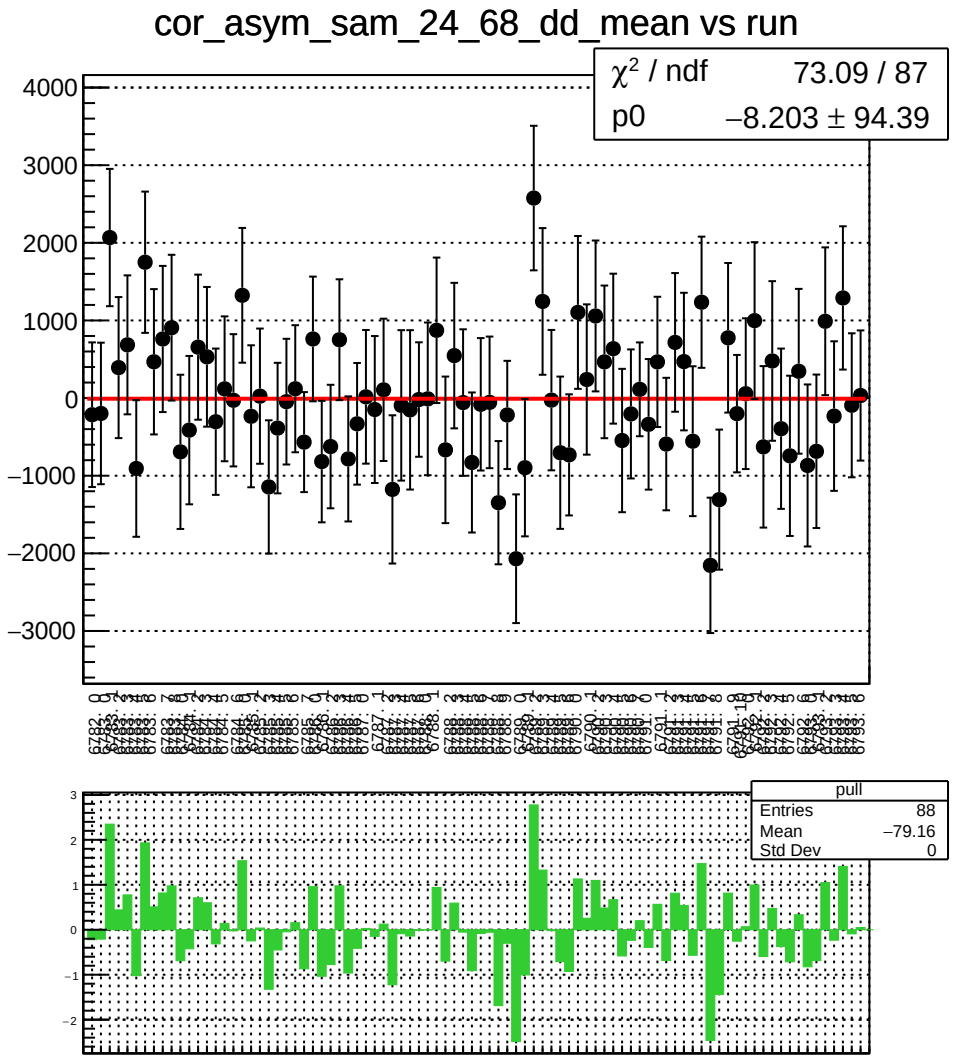

pull1D
Entries 88
Mean 0.01598
Std Dev 0.9112
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

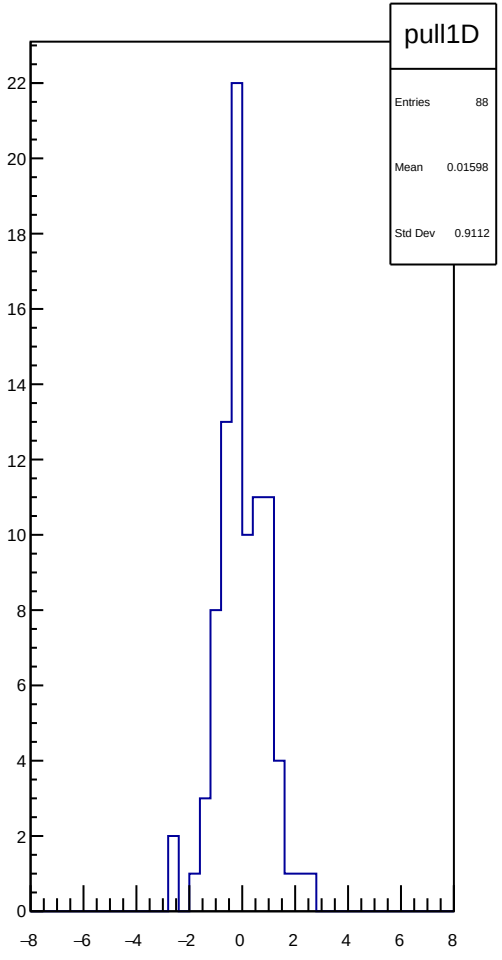

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 9925 / 87
p0 85.6 ± 0.06674
100
95
90
85
80
75

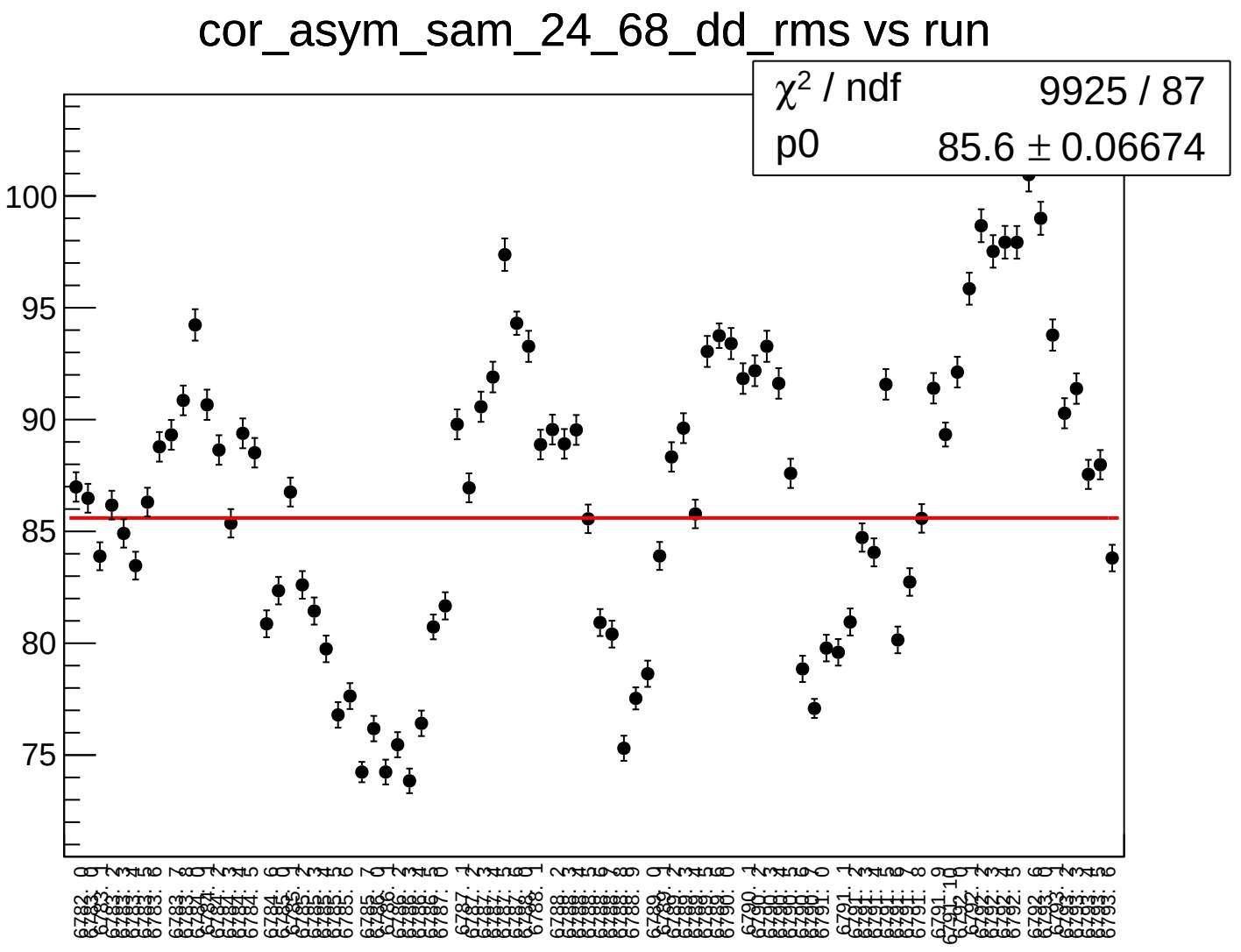

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 74.95 / 87
p0 −3499 ± 1145
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −265.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

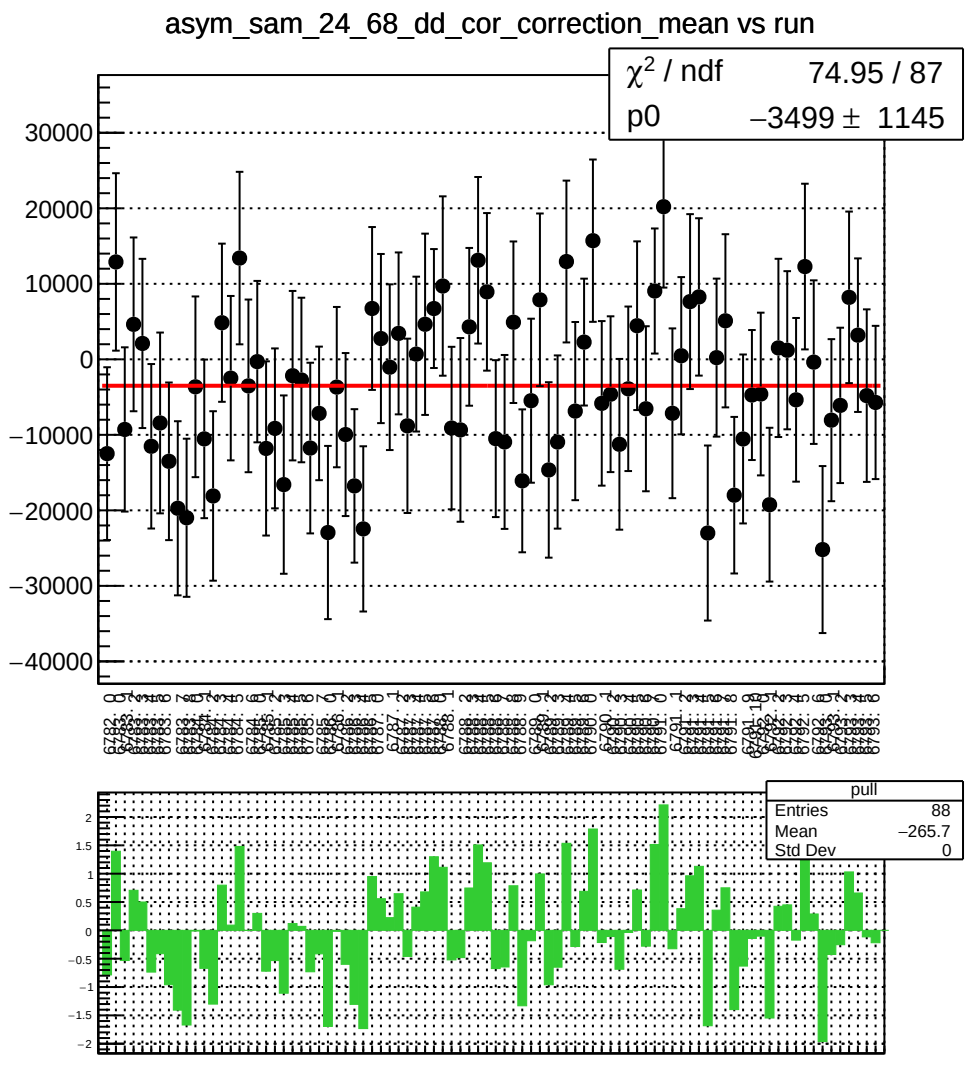

pull1D
Entries 88
Mean −0.01068
Std Dev 0.9228
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

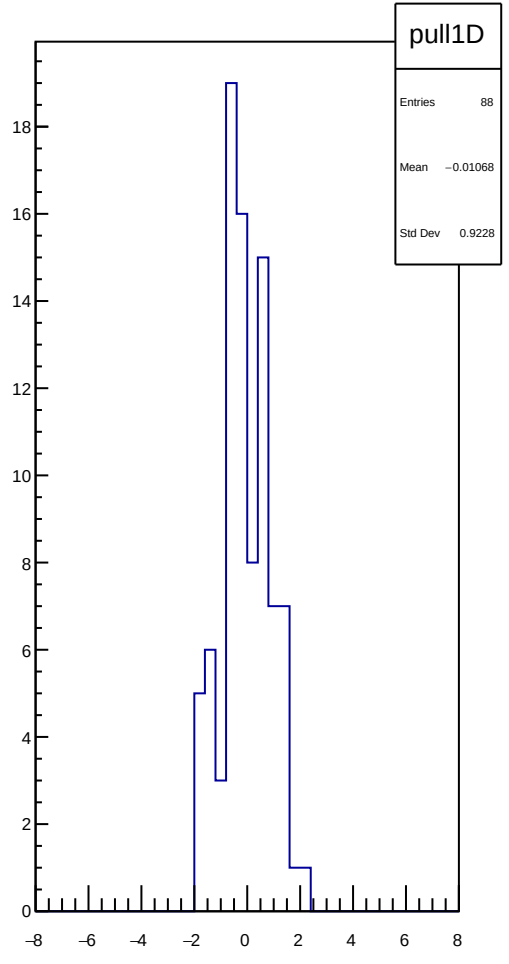

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3168 / 87
p0 1041 ± 0.8099
1150
1100
1050
1000
950

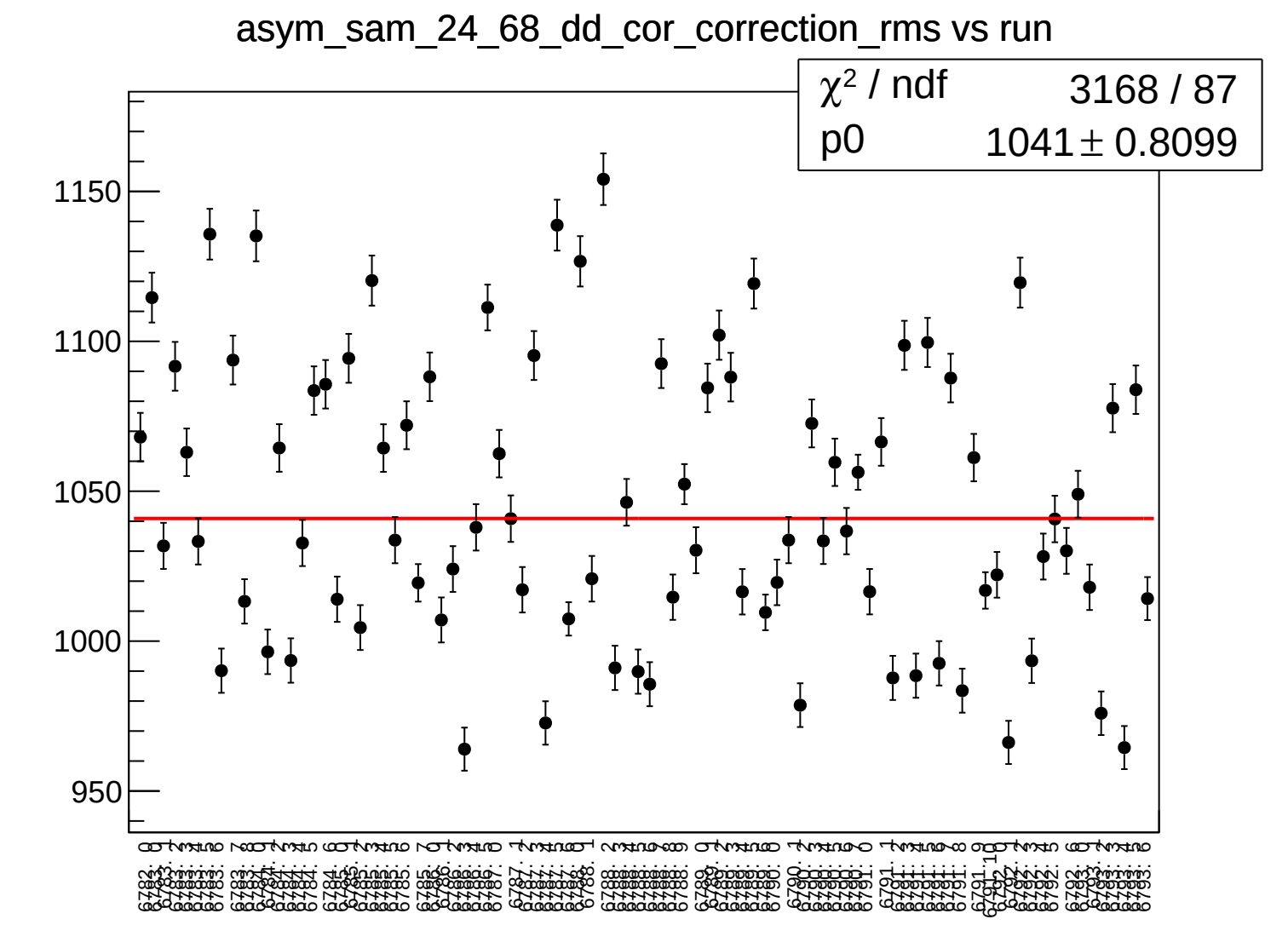

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 73.09 / 87
p0 −8.203 ± 94.39
pull
Entries 88
Mean −79.16
Std Dev 0

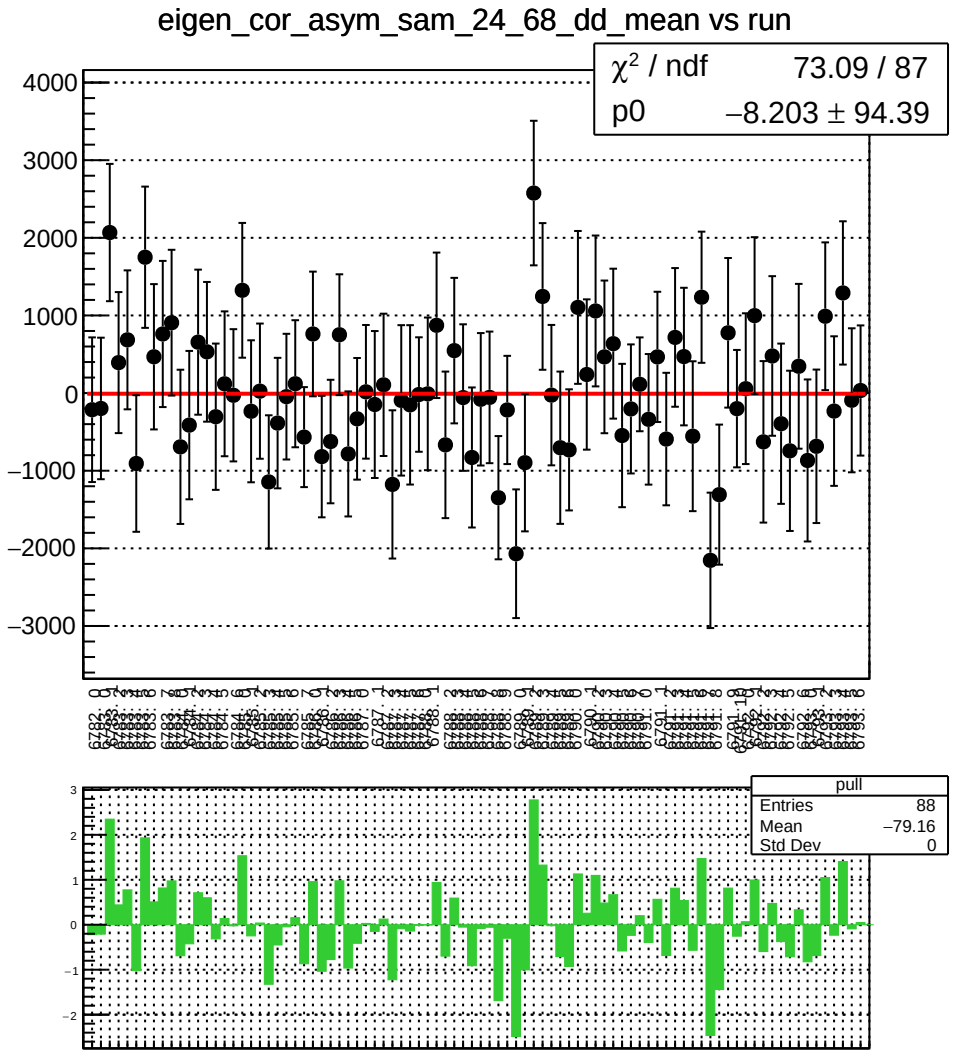

pull1D
Entries 88
Mean 0.01598
Std Dev 0.9112

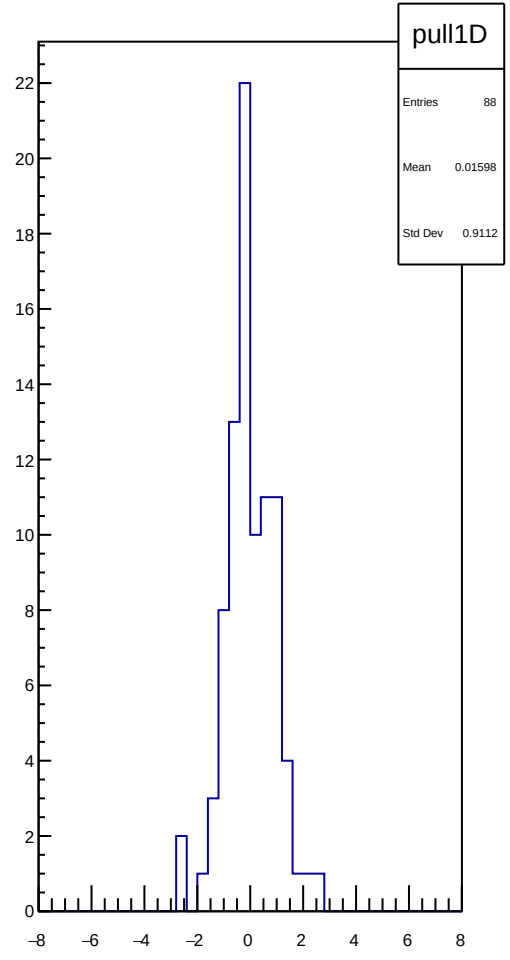

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 9925 / 87
p0 85.6 ± 0.06674
100
95
90
85
80
75

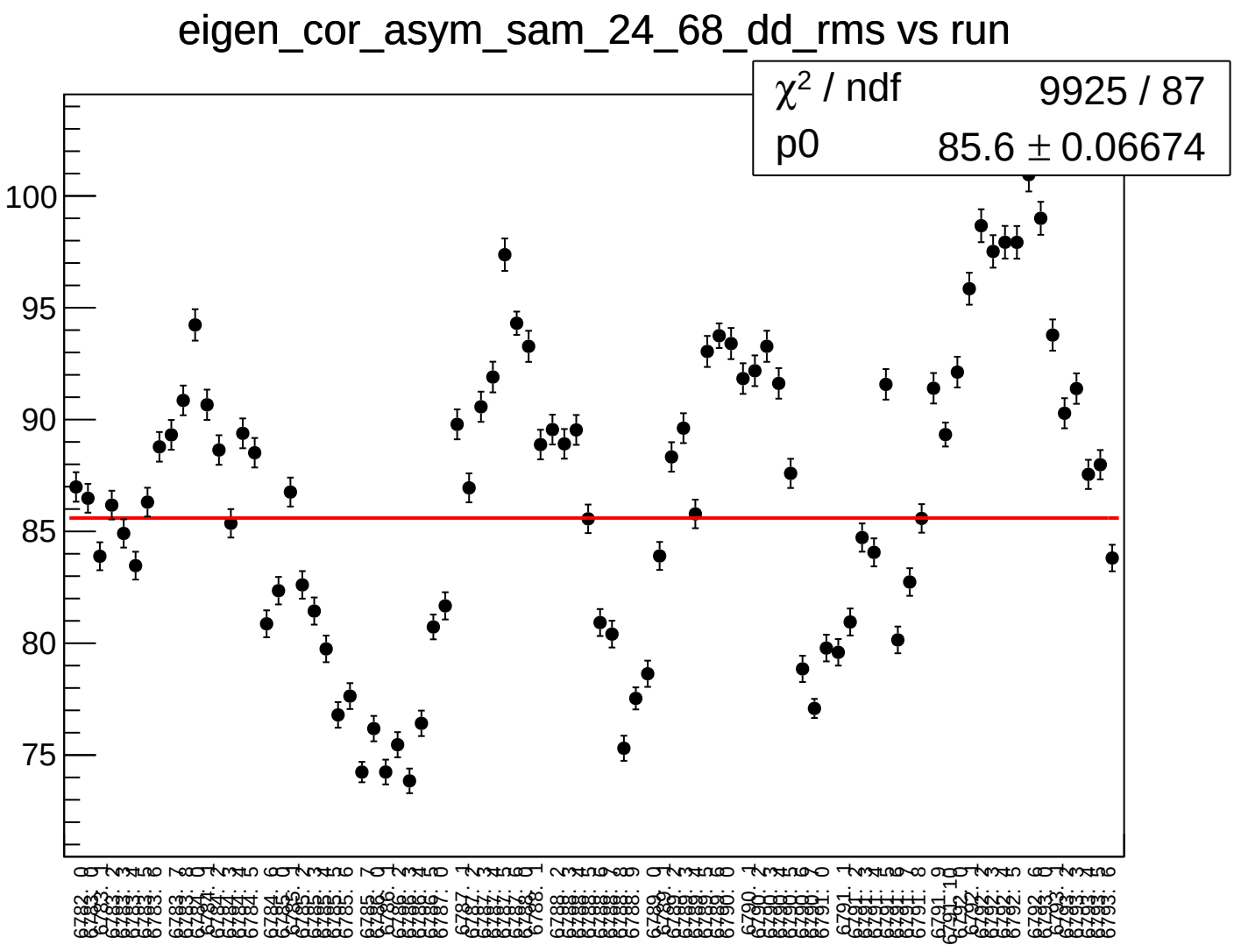

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 74.95 / 87
p0 −3499 ± 1145
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −265.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.01068
Std Dev 0.9228
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

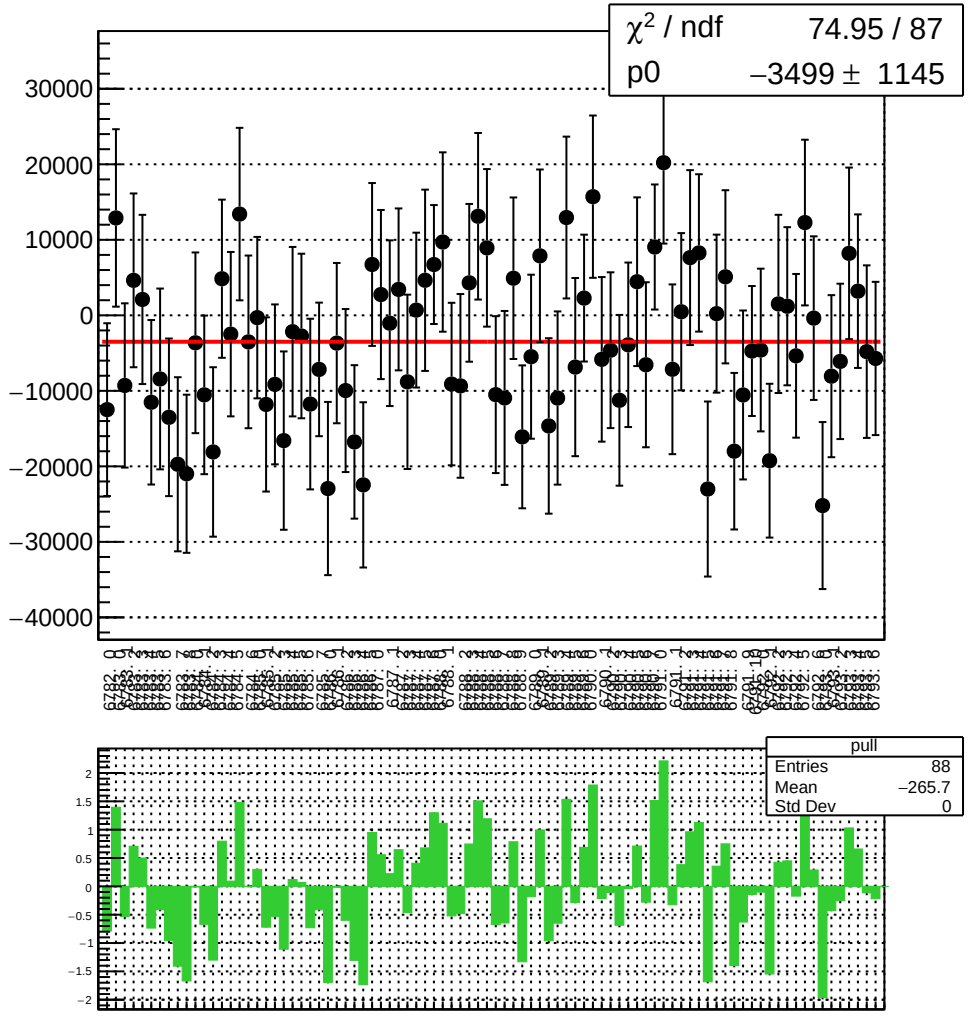

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3168 / 87
p0 1041 ± 0.8099
1150
1100
1050
1000
950

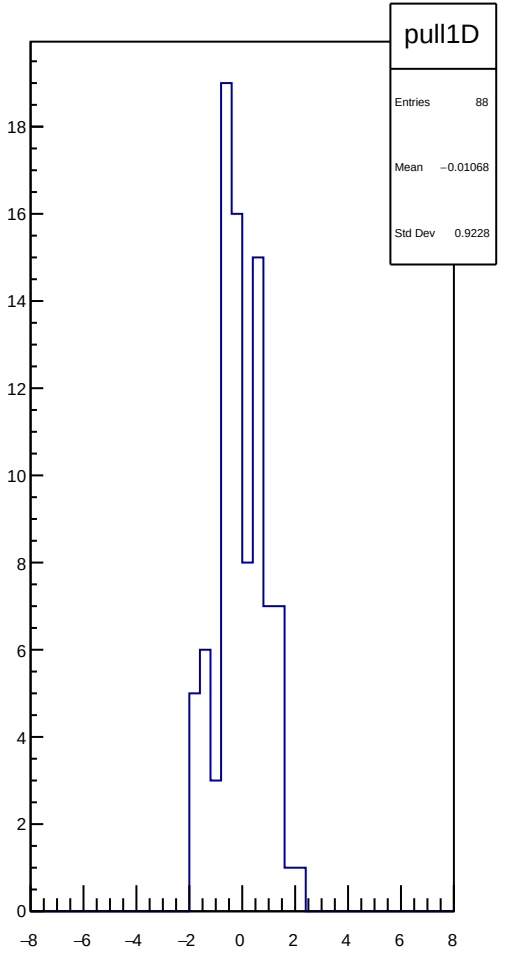

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 73.09 / 87
p0 −8.203 ± 94.39
pull
Entries 88
Mean −79.16
Std Dev 0

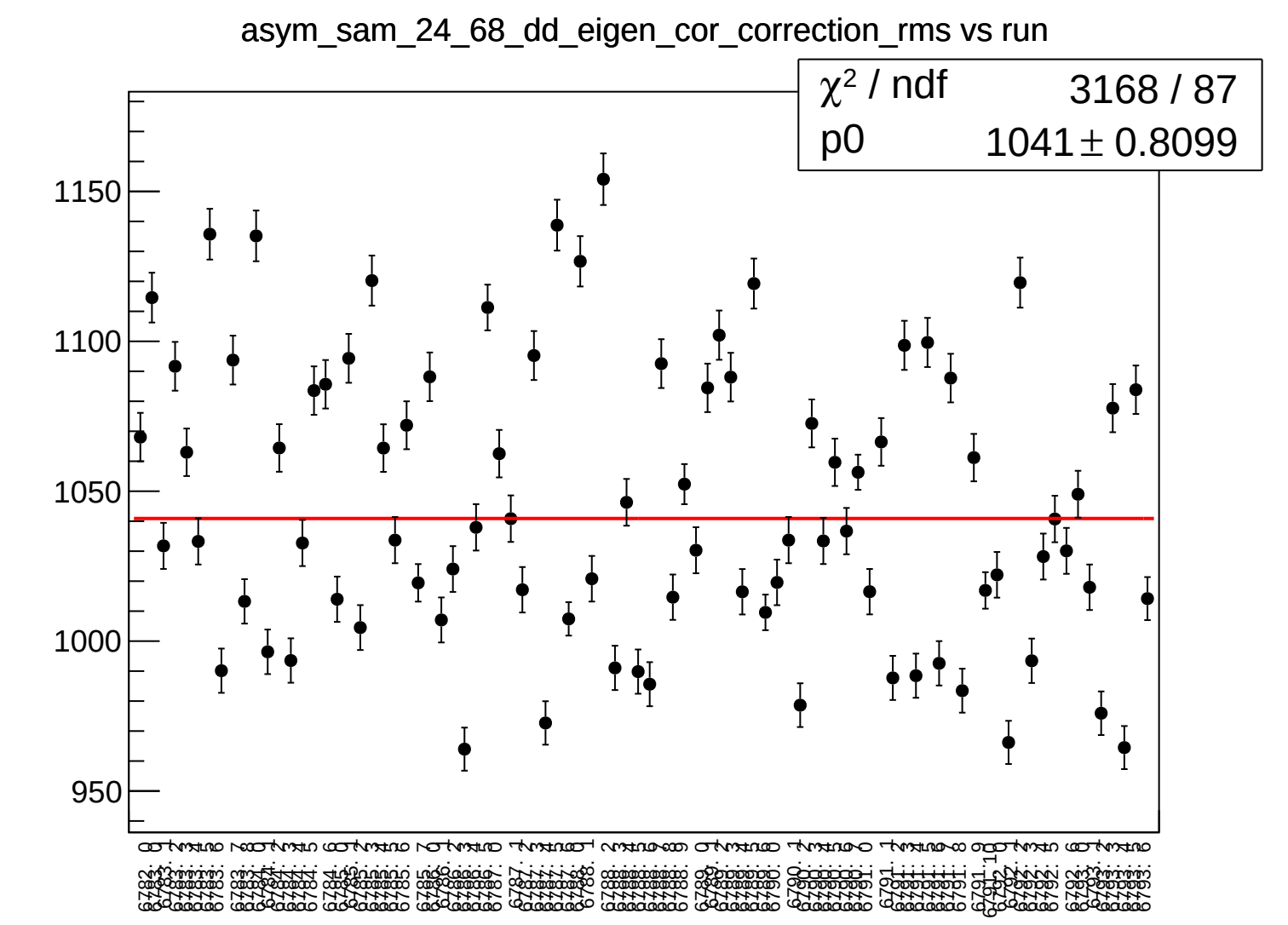

pull1D
Entries 88
Mean 0.01598
Std Dev 0.9112

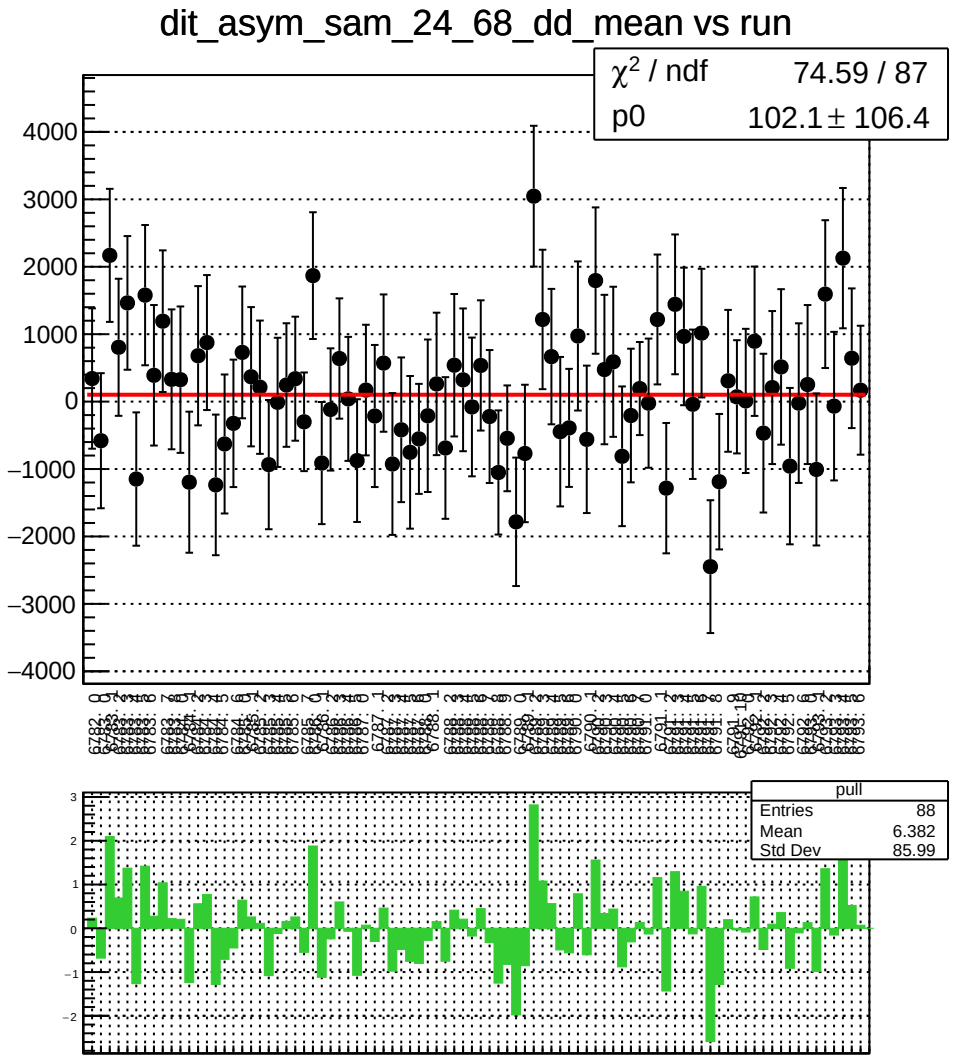

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 9925 / 87
p0 85.6 ± 0.06674
100
95
90
85
80
75

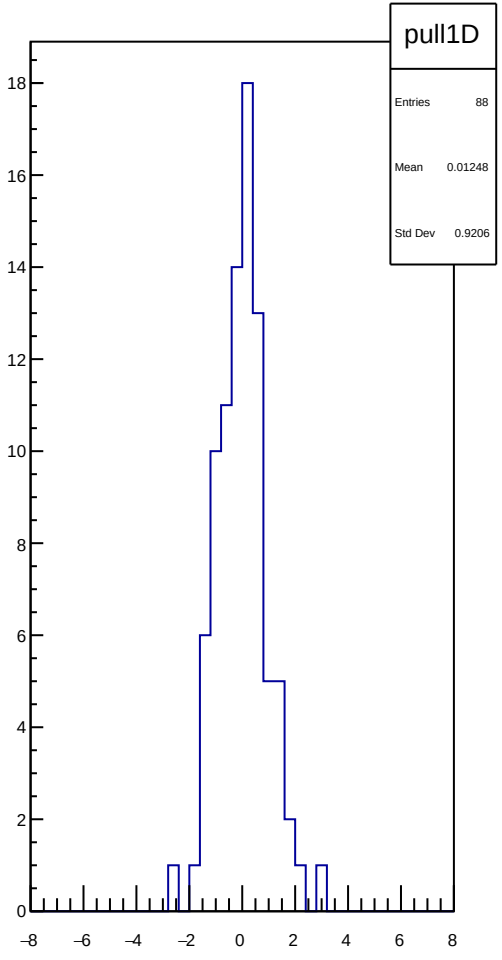
asym_sam_24_68_dd_eigen_cor_correction_mean vs run

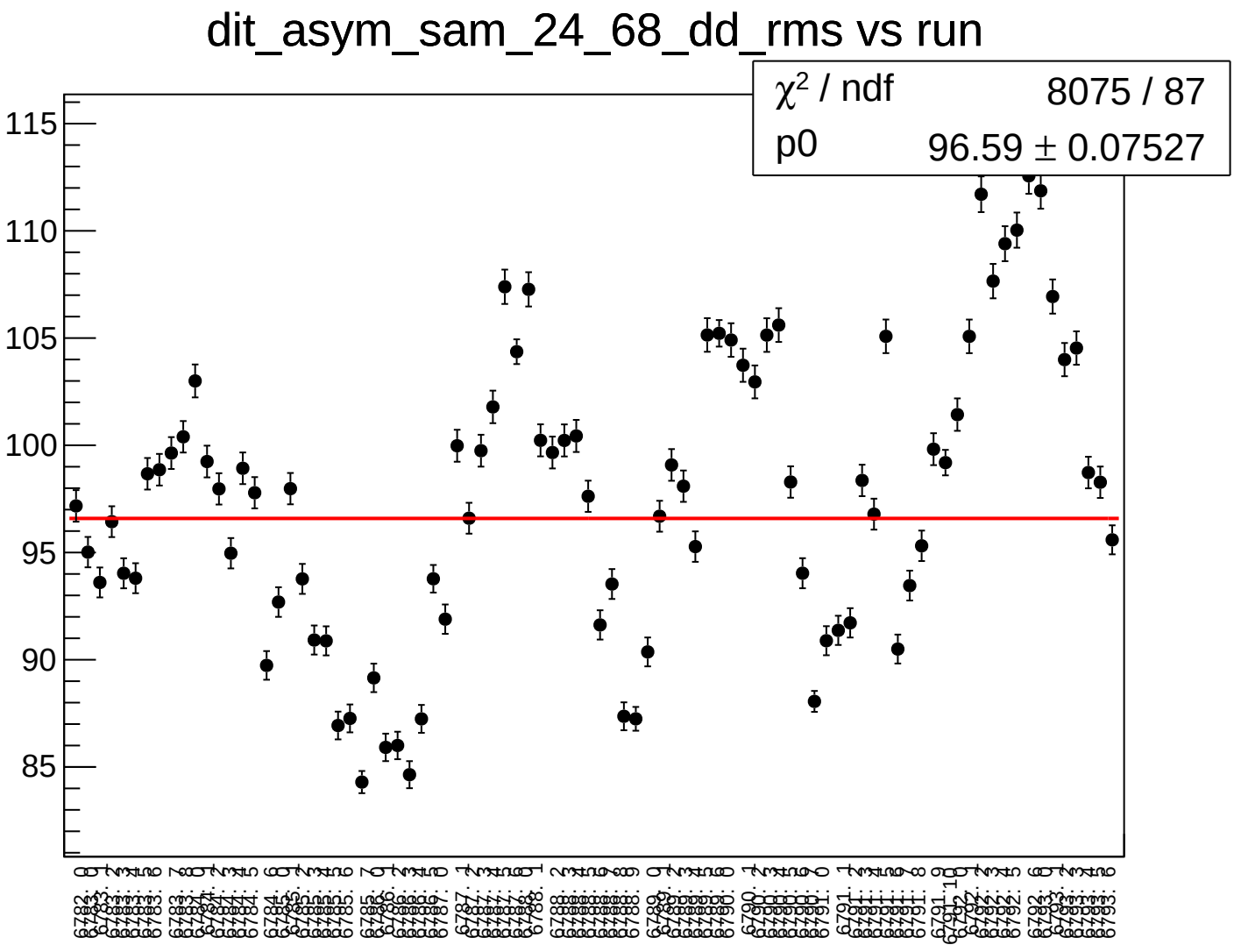


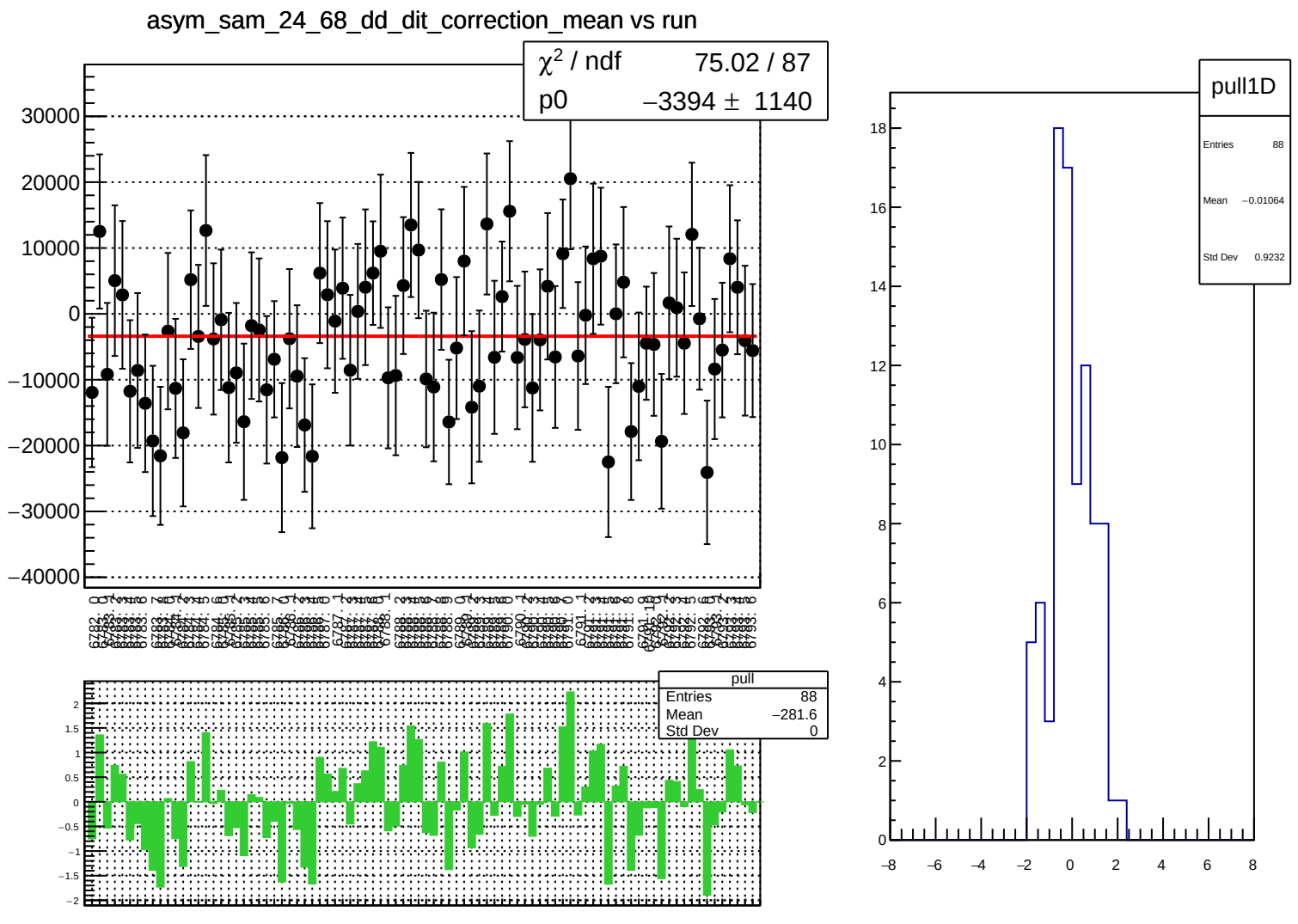


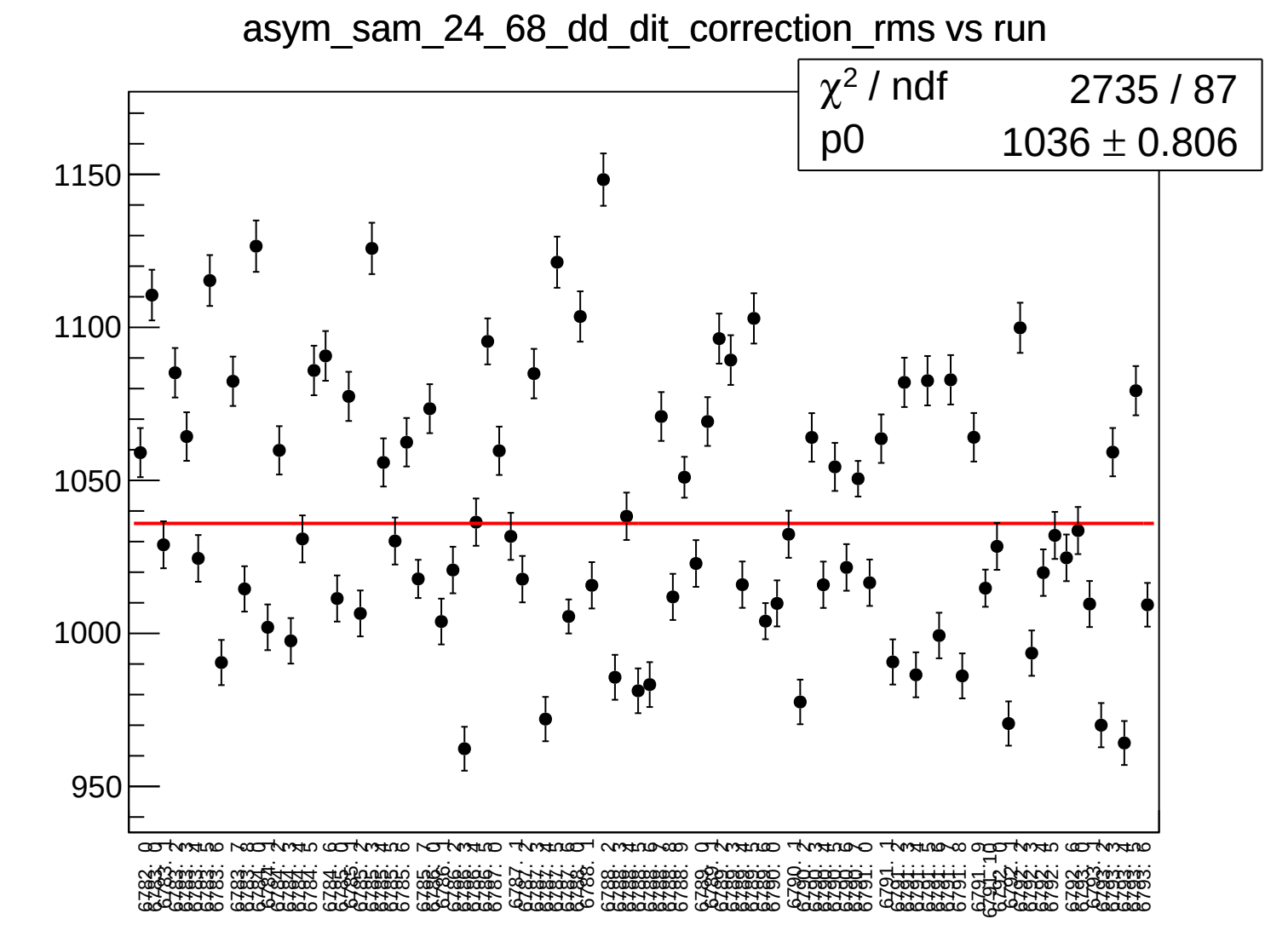

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3168 / 87
p0 1041 ± 0.8099
1150
1100
1050
1000
950

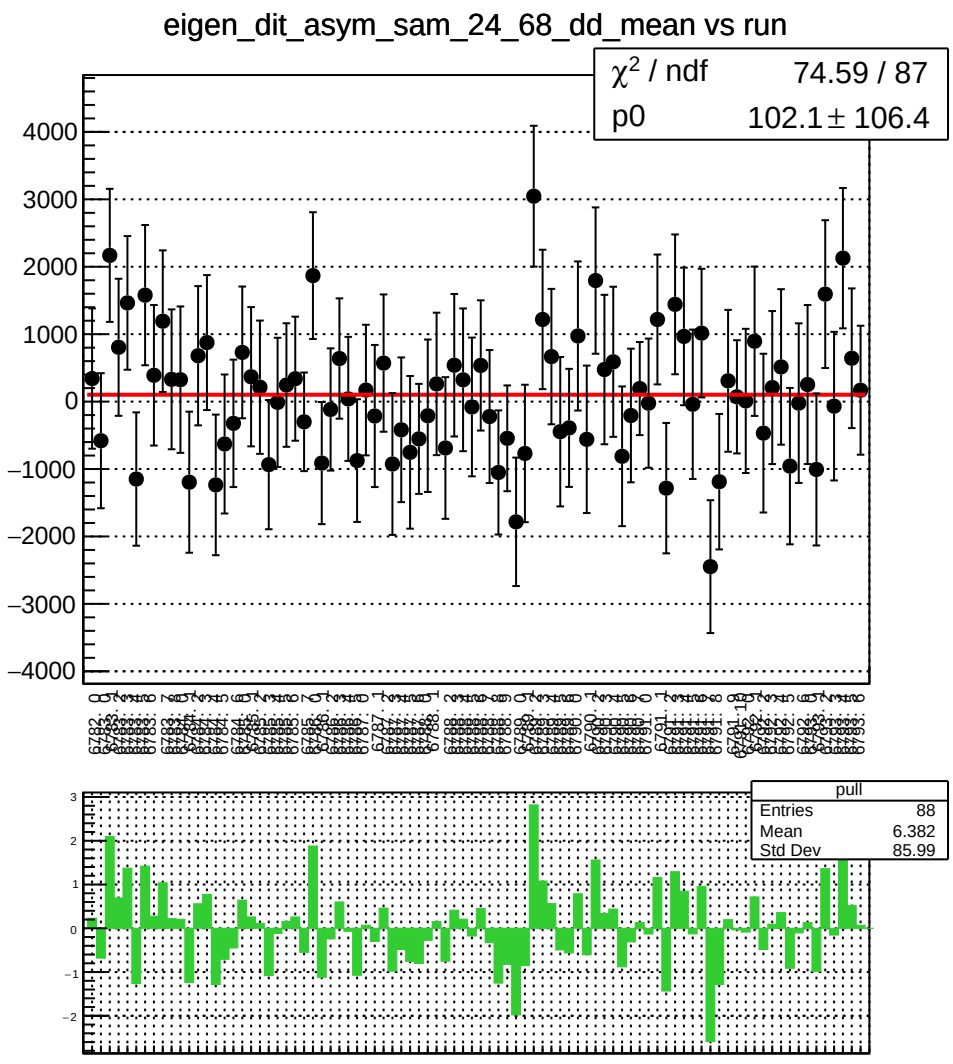

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.59 / 87
p0 102.1 ± 106.4
pull
Entries 88
Mean 6.382
Std Dev 85.99

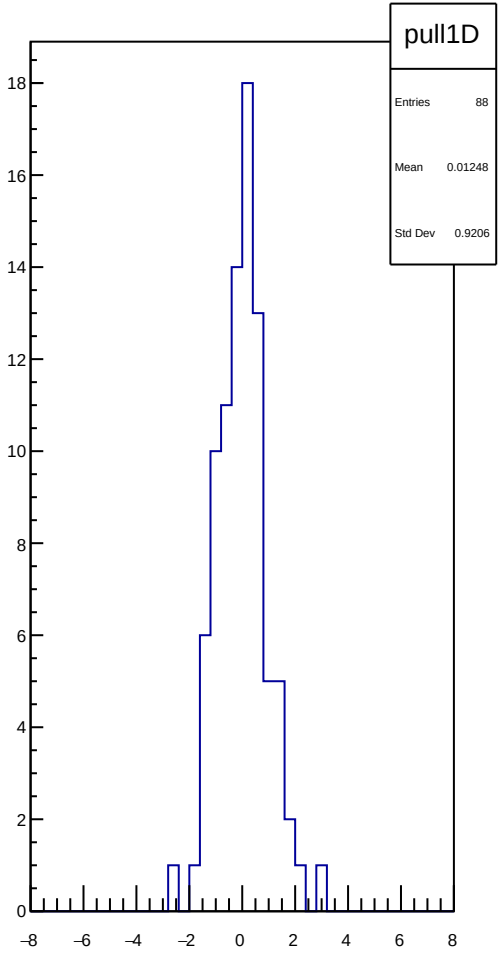

pull1D
Entries 88
Mean 0.01248
Std Dev 0.9206

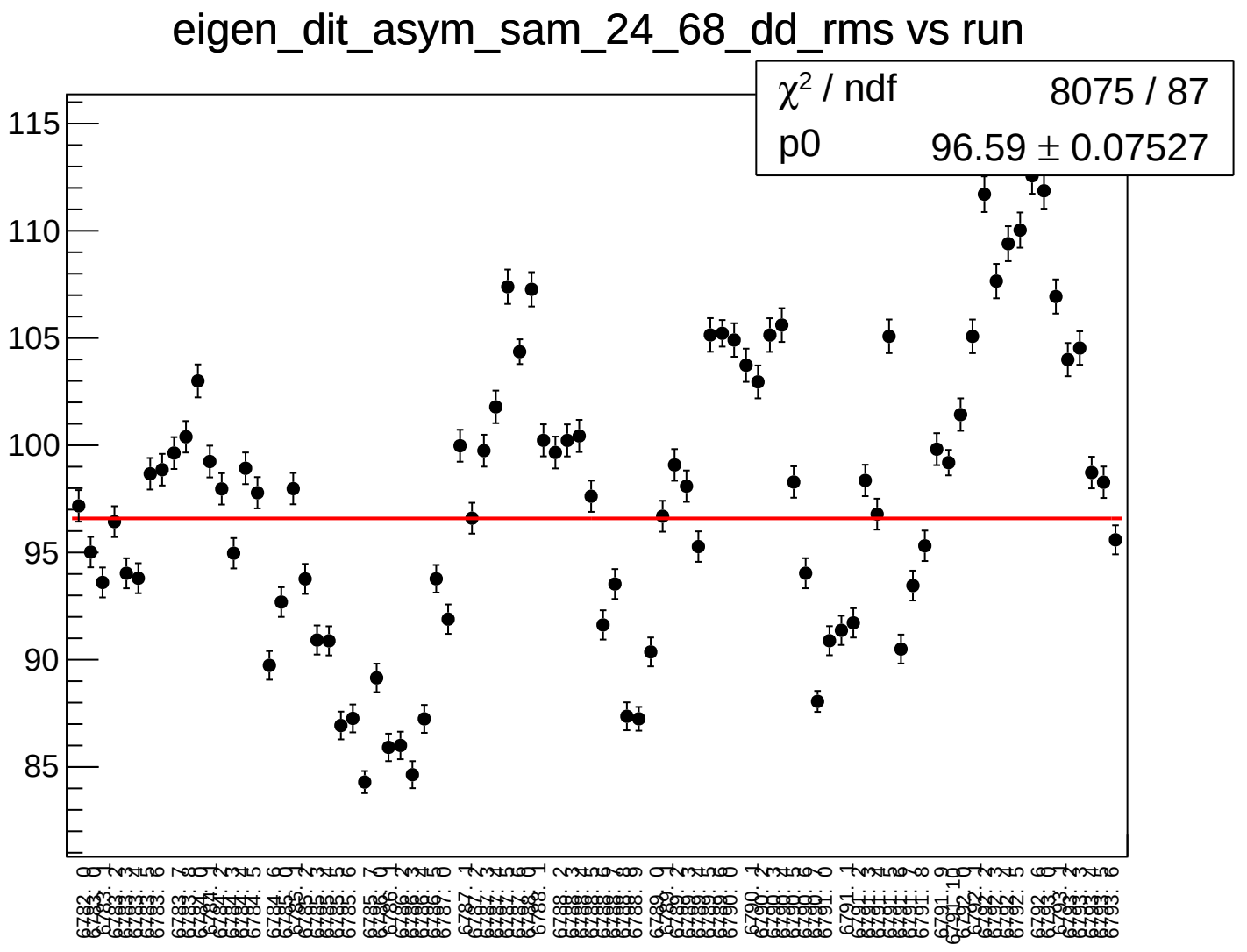

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 8075 / 87
p0 96.59 ± 0.07527
115
110
105
100
95
90
85

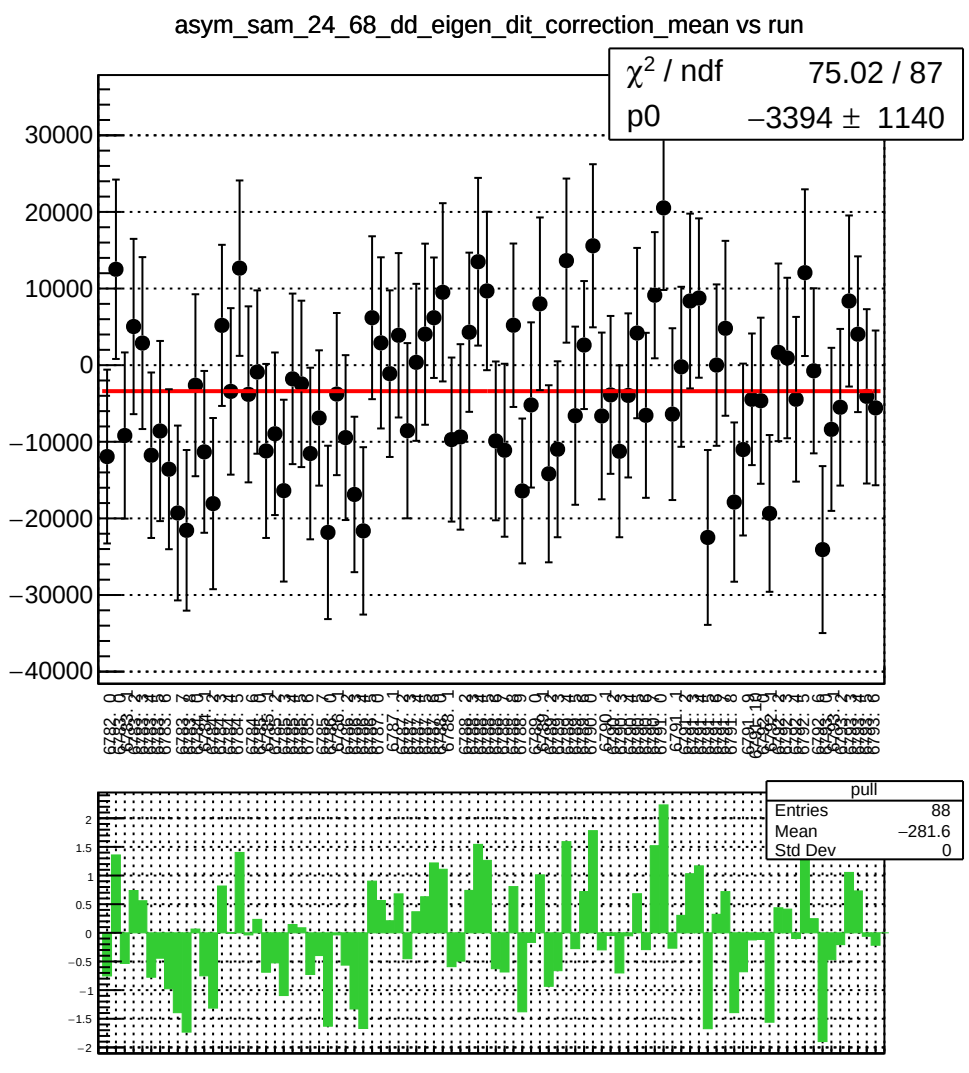

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 75.02 / 87
p0 −3394 ± 1140
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −281.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01064
Std Dev 0.9232
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

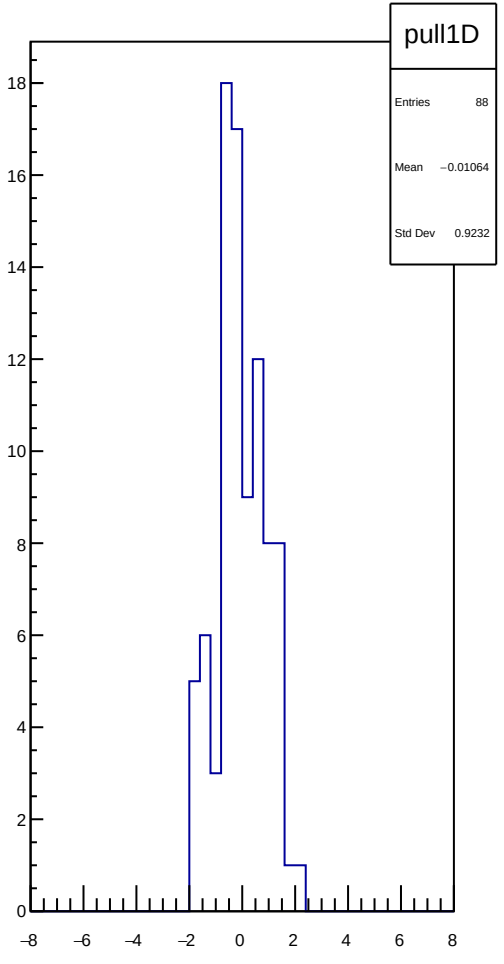

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2735 / 87
p0 1036 ± 0.806
1150
1100
1050
1000
950

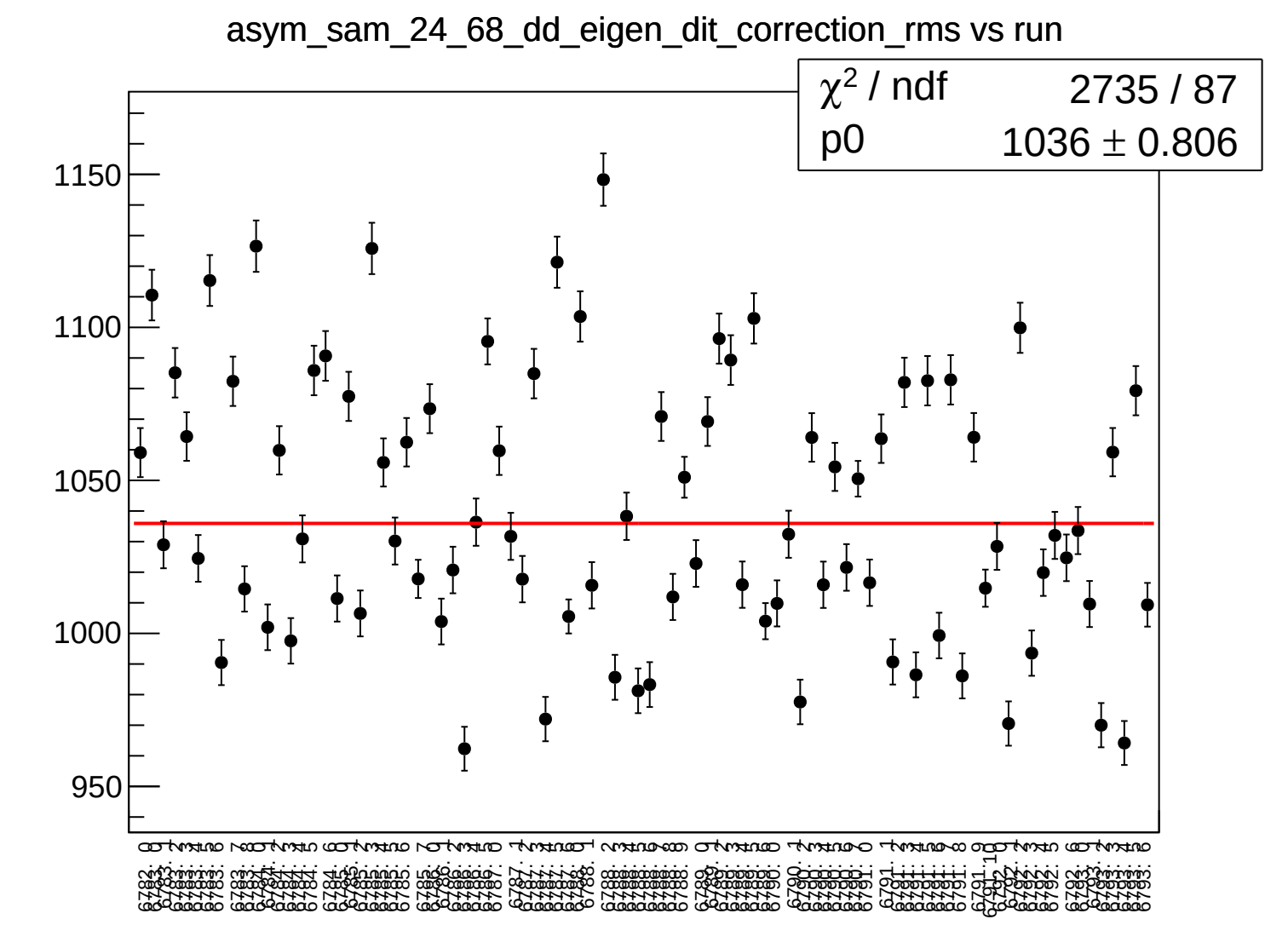

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 74.59 / 87
p0 102.1 ± 106.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 6.382
Std Dev 85.99
3
2
1
0
−1
−2

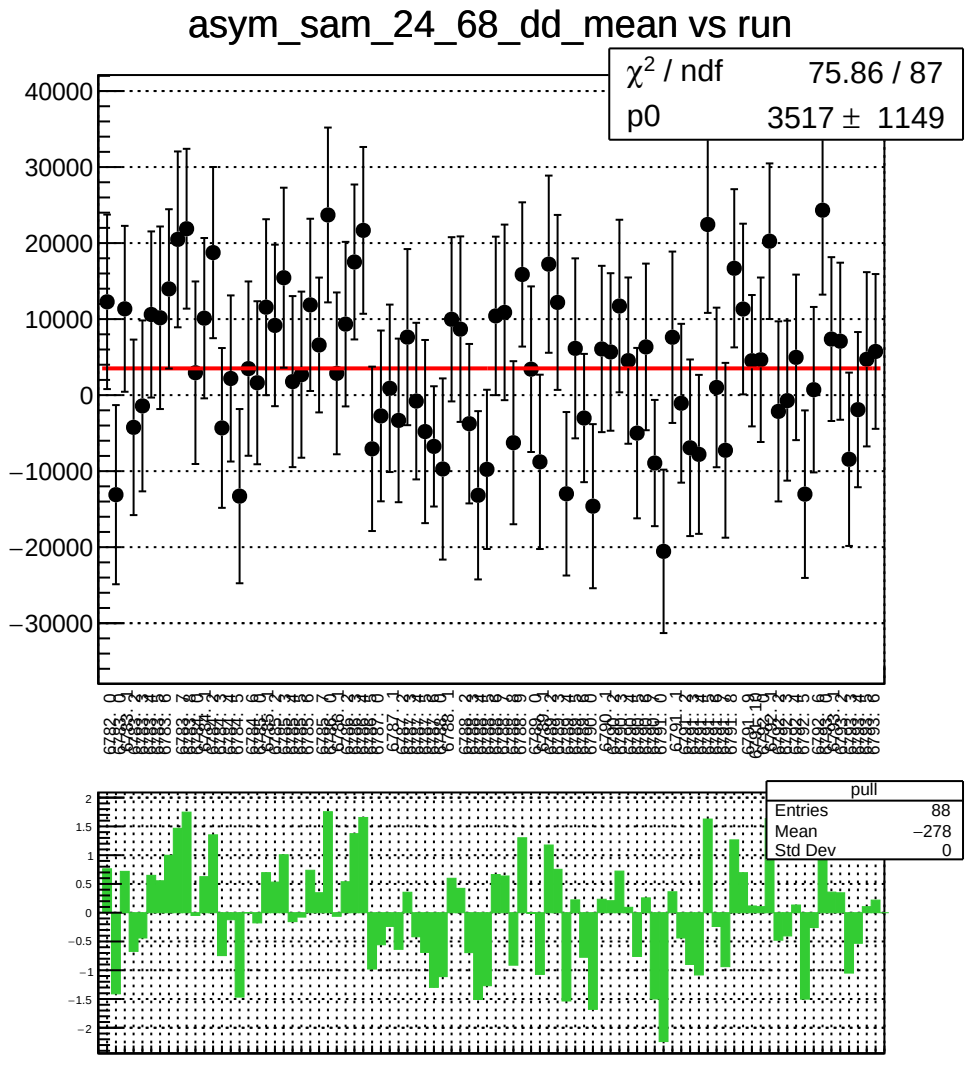

pull1D
Entries 88
Mean 0.01248
Std Dev 0.9206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

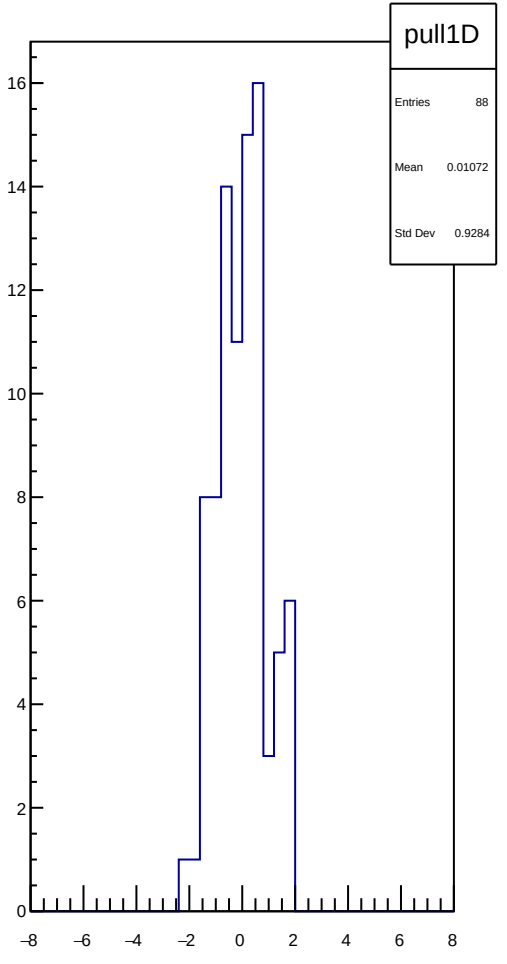

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 8075 / 87
p0 96.59 ± 0.07527
115
110
105
100
95
90
85

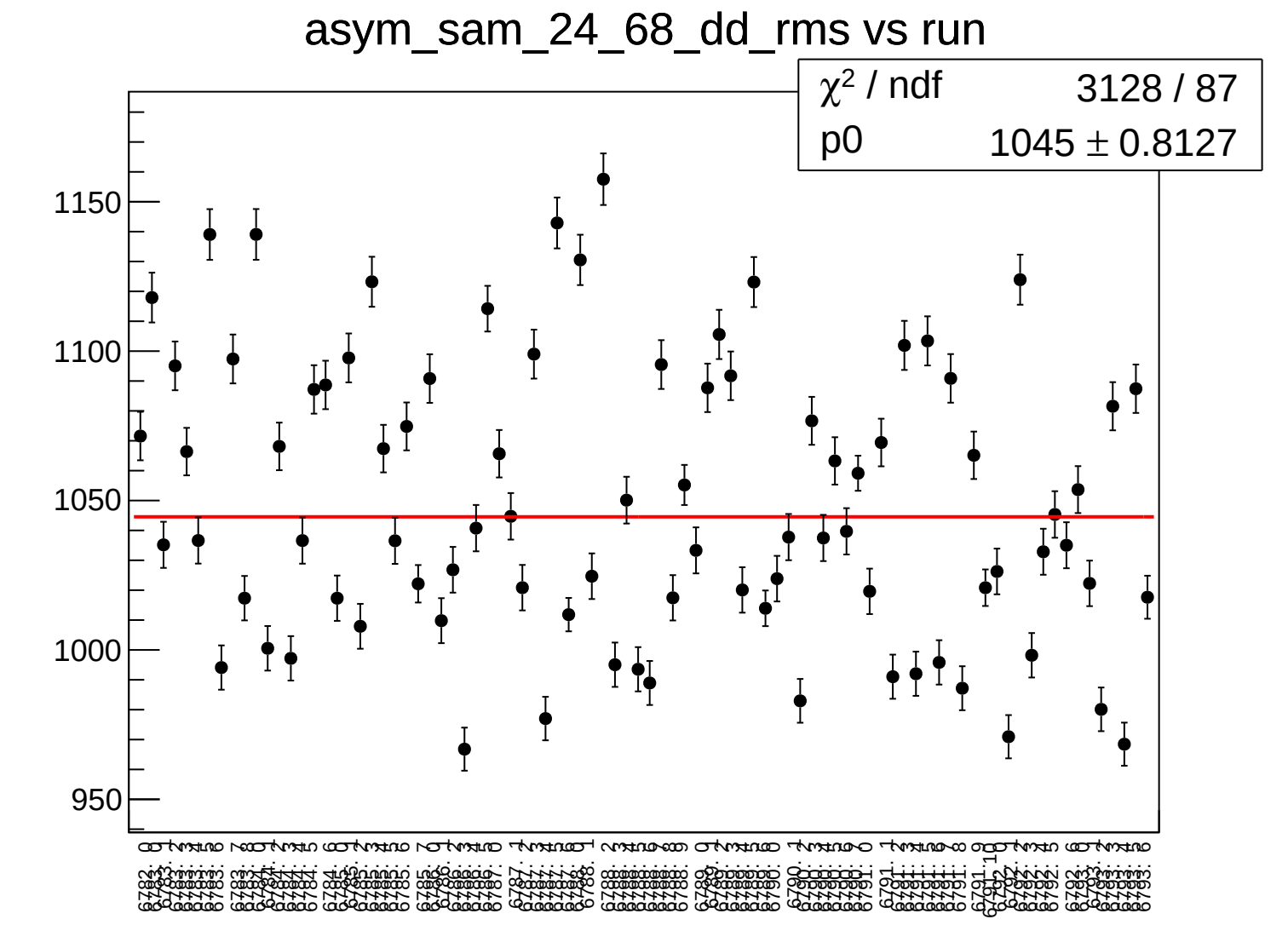

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.02 / 87
p0 −3394 ± 1140
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −281.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

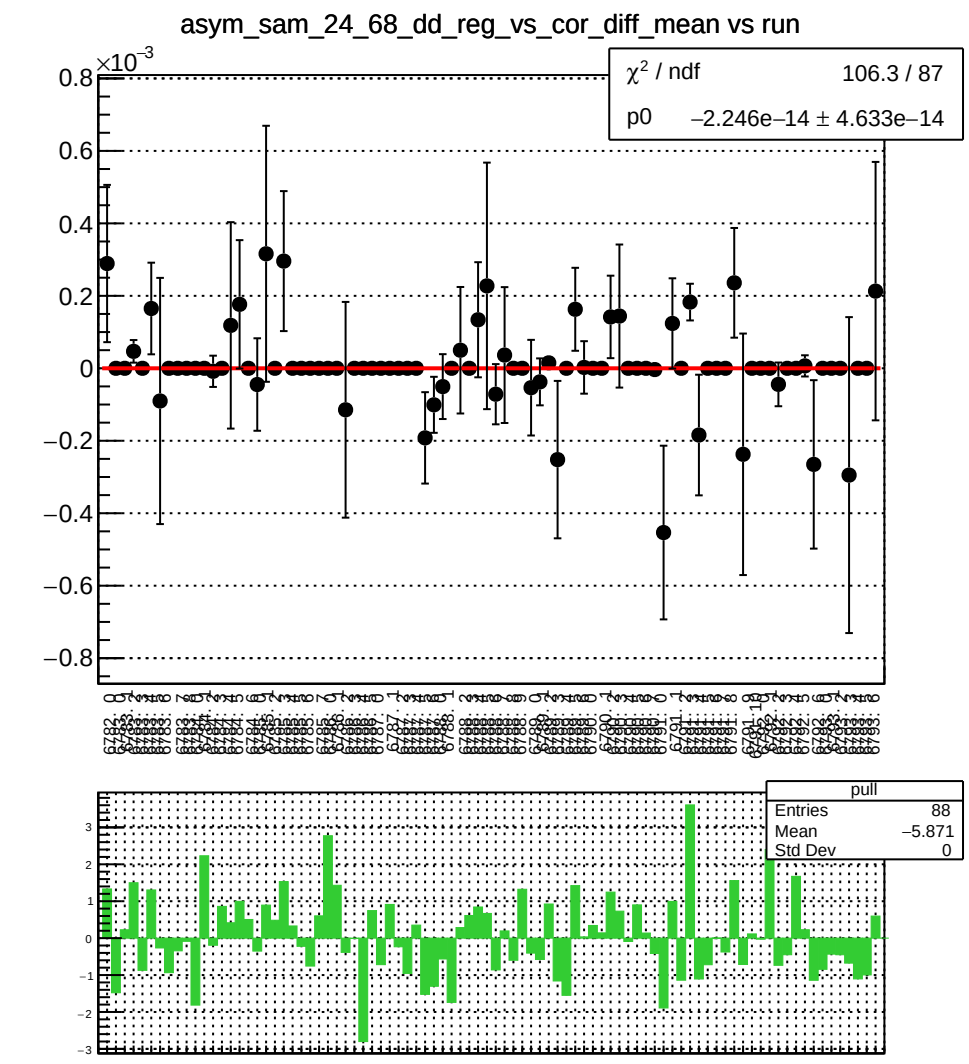

pull1D
Entries 88
Mean −0.01064
Std Dev 0.9232
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

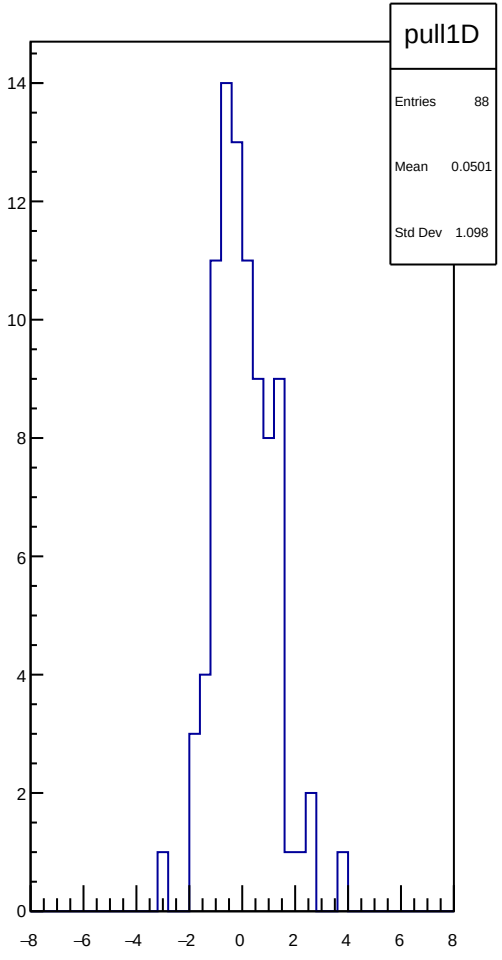

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2735 / 87
p0 1036 ± 0.806
1150
1100
1050
1000
950

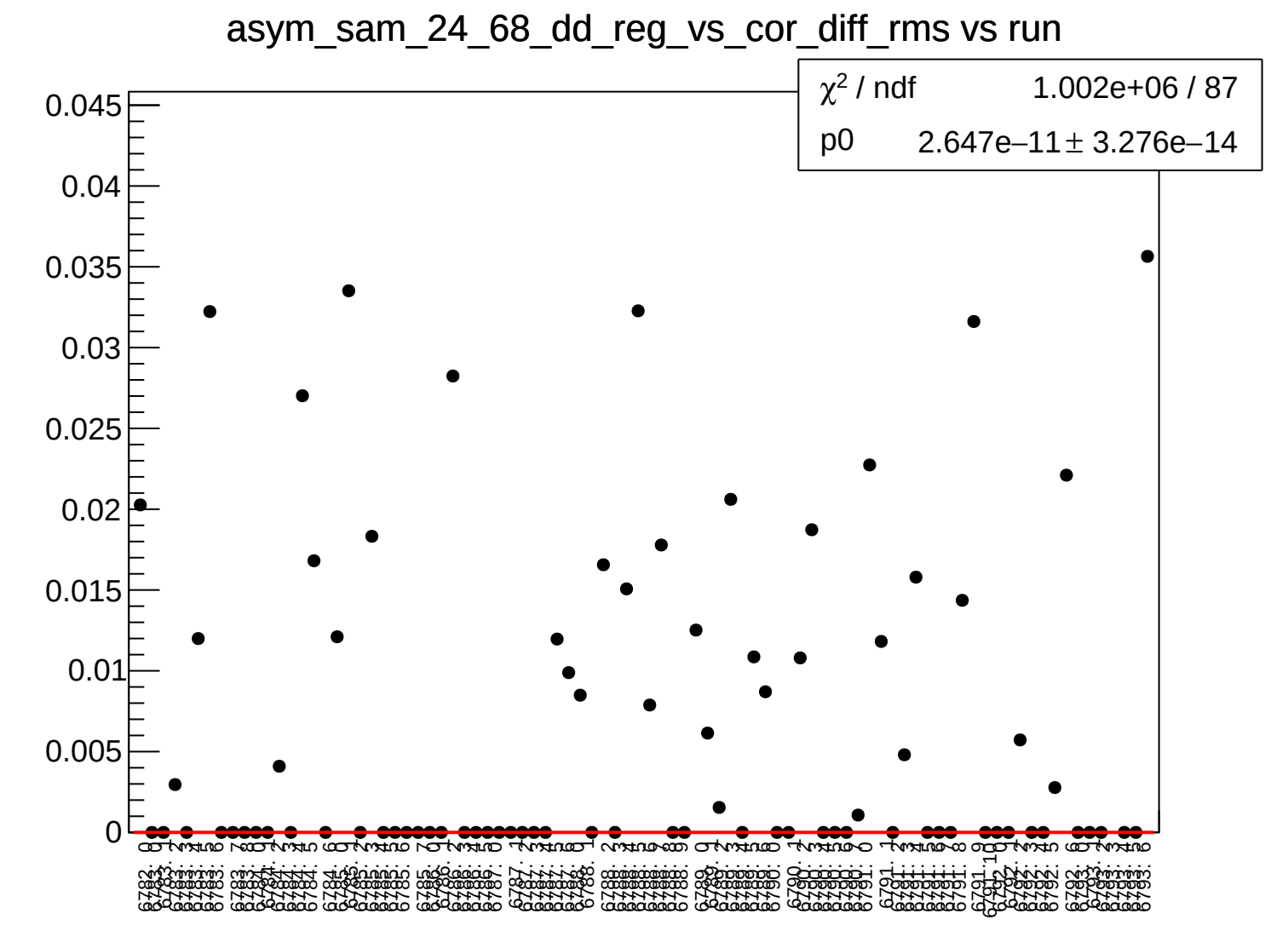

asym_sam_24_68_dd_mean vs run
χ² / ndf 75.86 / 87
p0 3517 ± 1149
pull
Entries 88
Mean −278
Std Dev 0

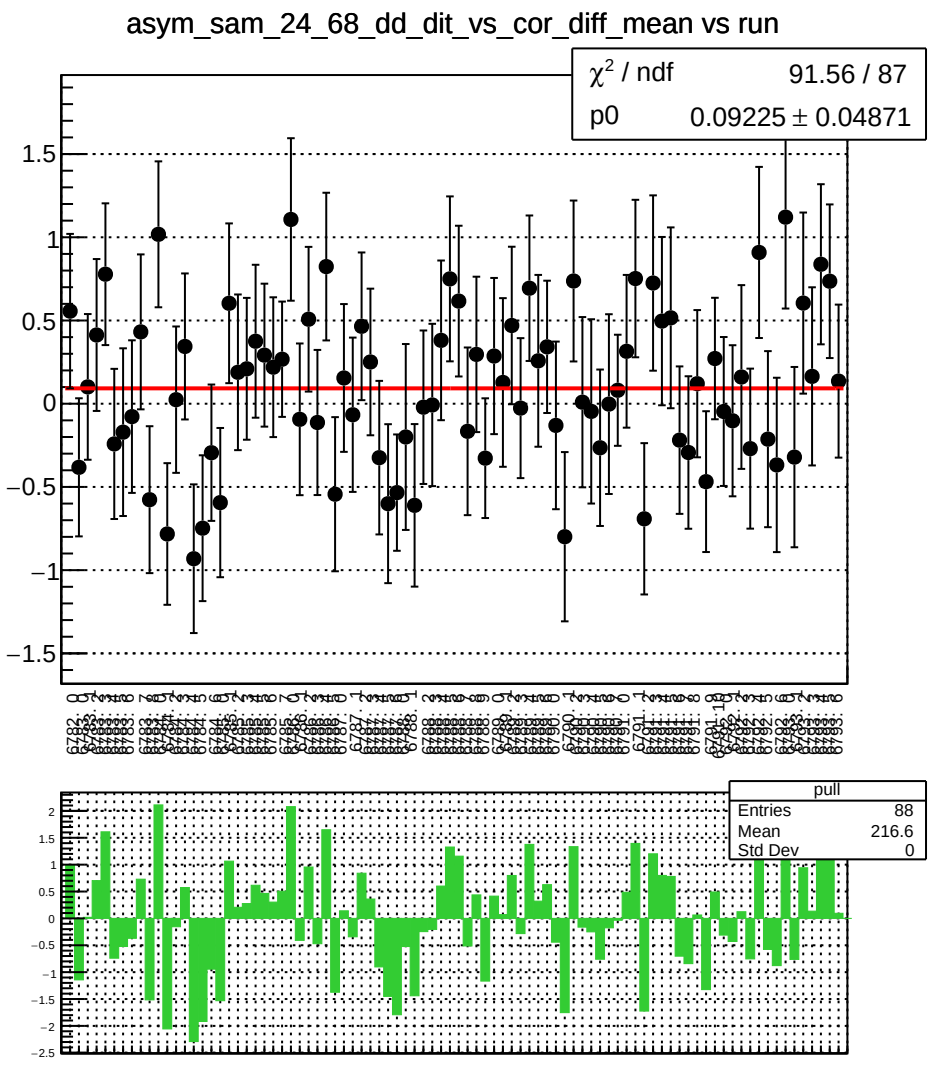

pull1D
Entries 88
Mean 0.01072
Std Dev 0.9284

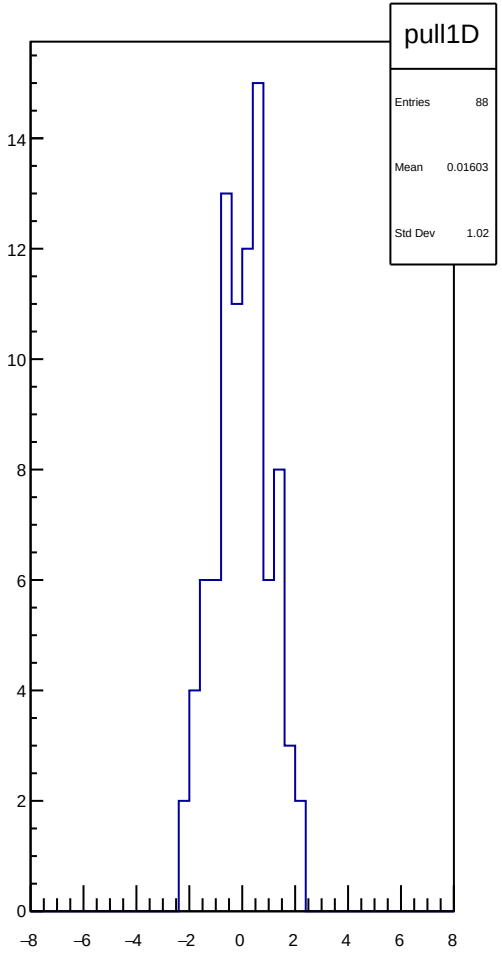

asym_sam_24_68_dd_rms vs run
χ² / ndf 3128 / 87
p0 1045 ± 0.8127
1150
1100
1050
1000
950

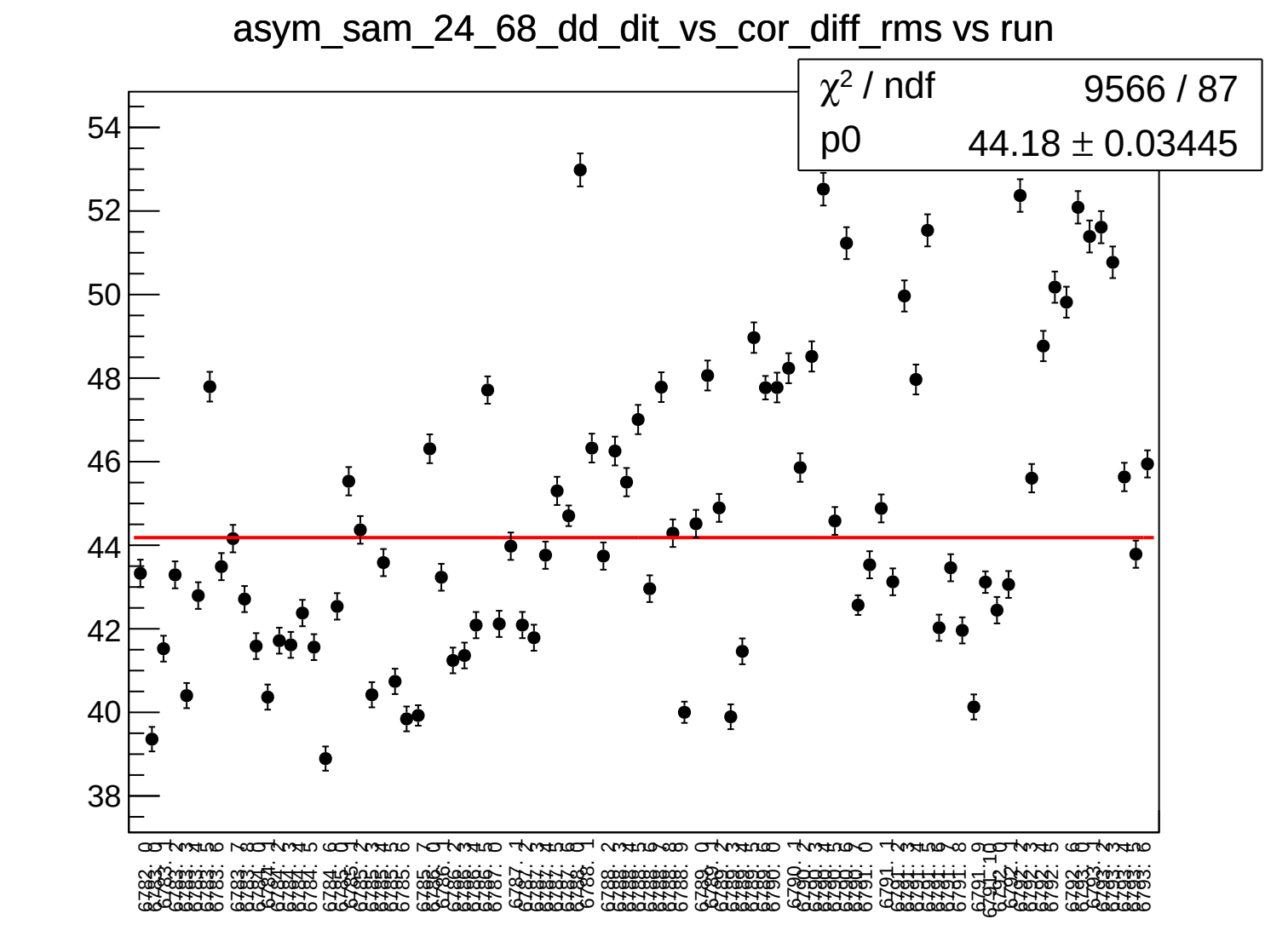

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 106.3 / 87
p0 −2.246e−14 ± 4.633e−14
pull
Entries 88
Mean −5.871
Std Dev 0

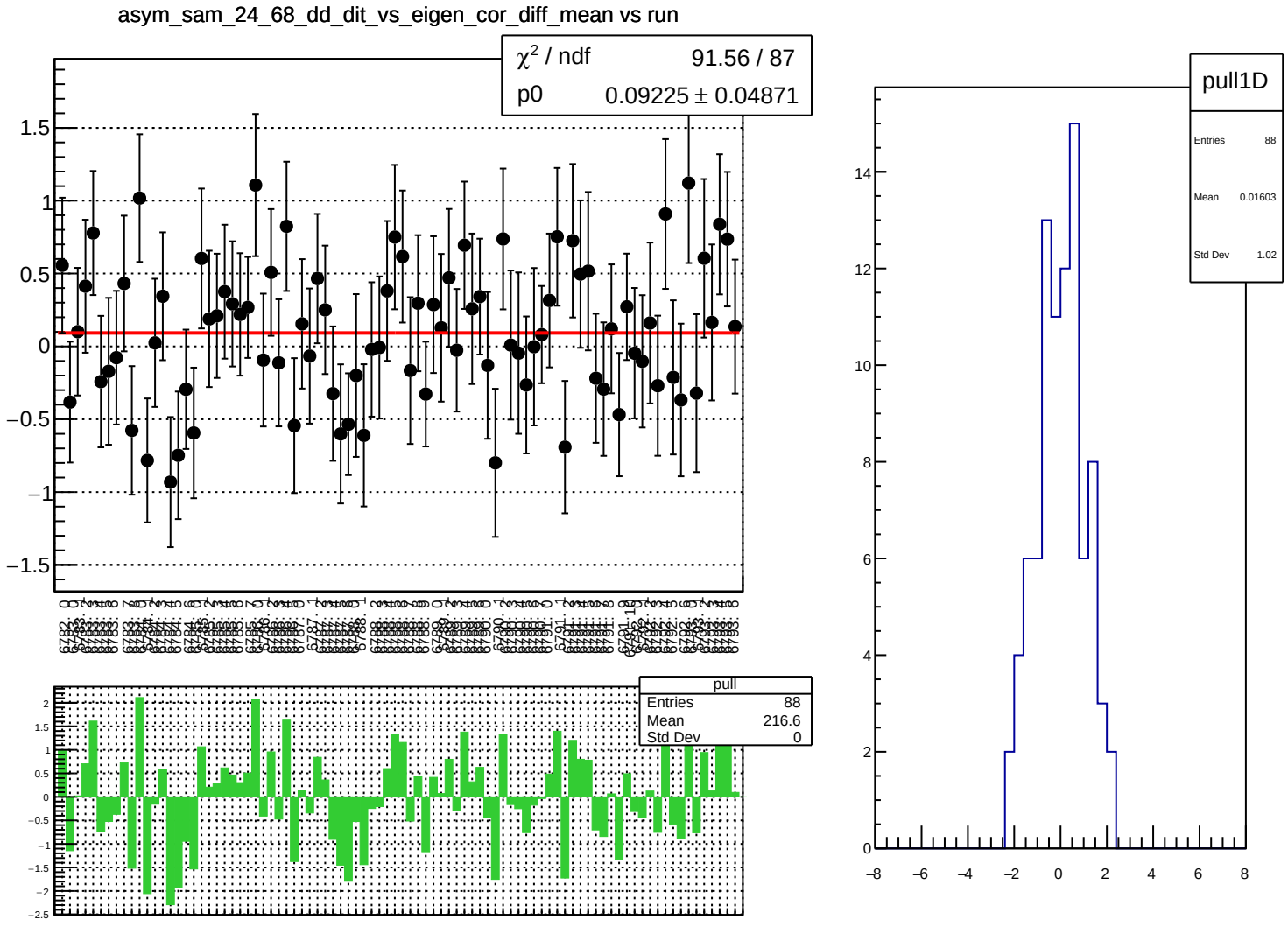

pull1D
Entries 88
Mean 0.0501
Std Dev 1.098

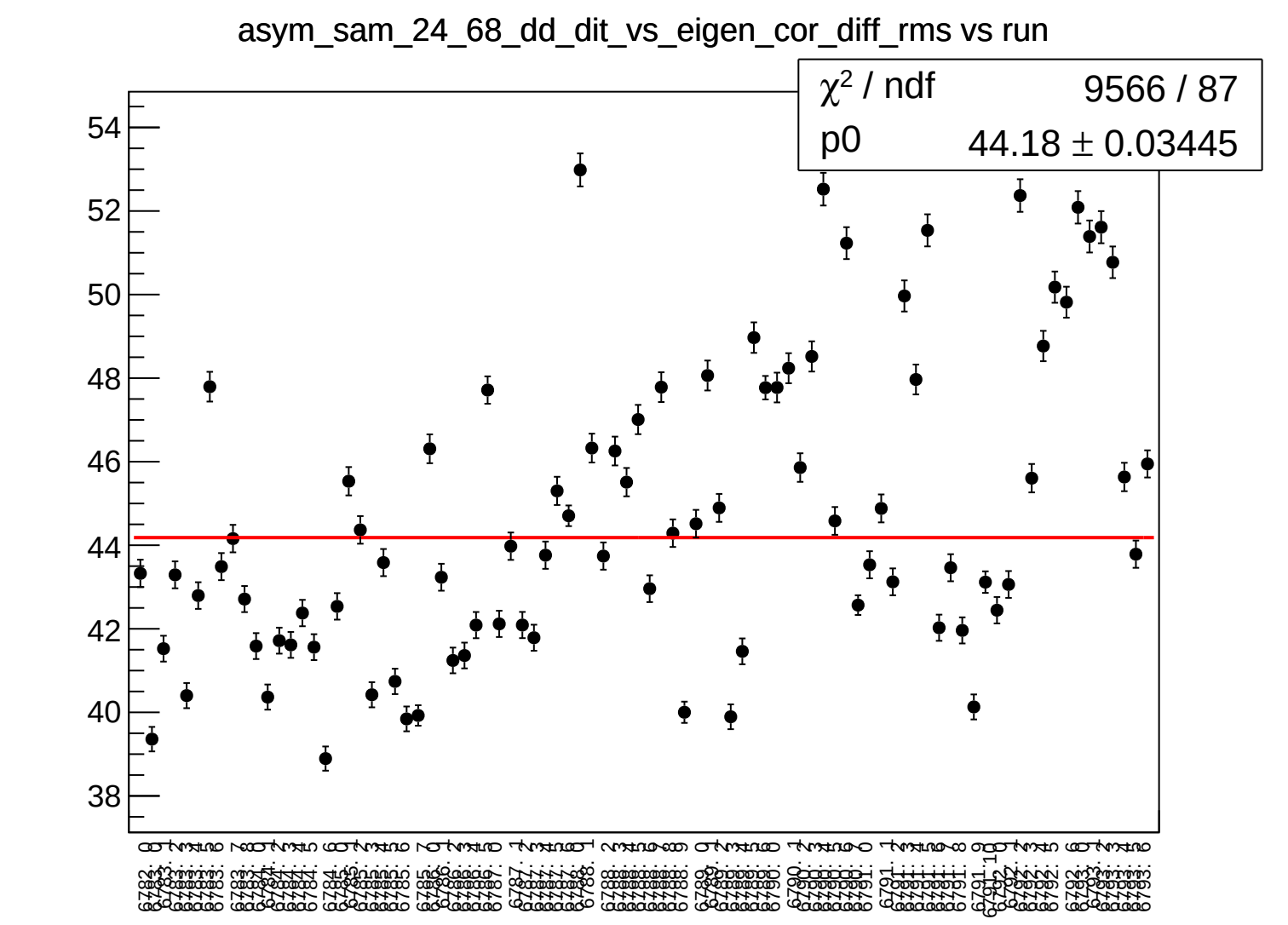

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 87
p0 2.647e−11 ± 3.276e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

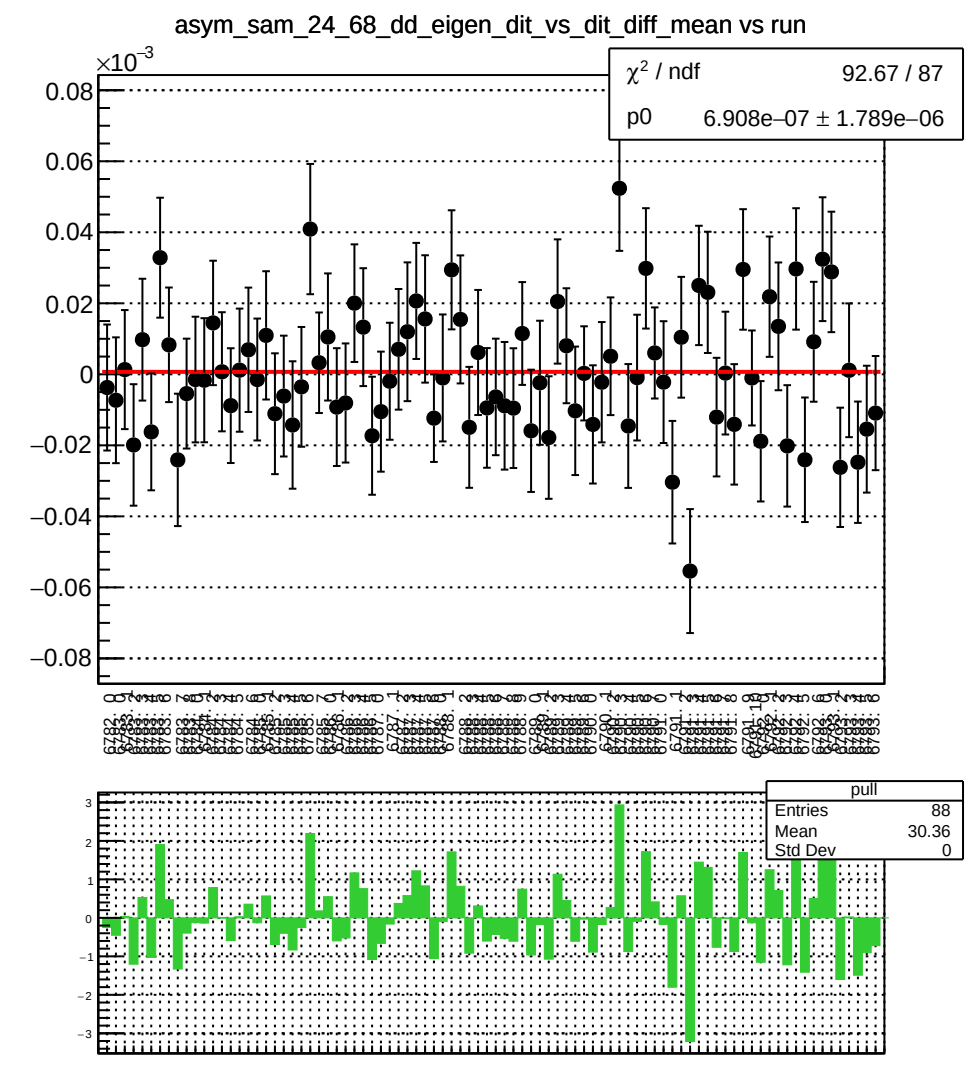

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 87
p0 0.09225 ± 0.04871
pull
Entries 88
Mean 216.6
Std Dev 0

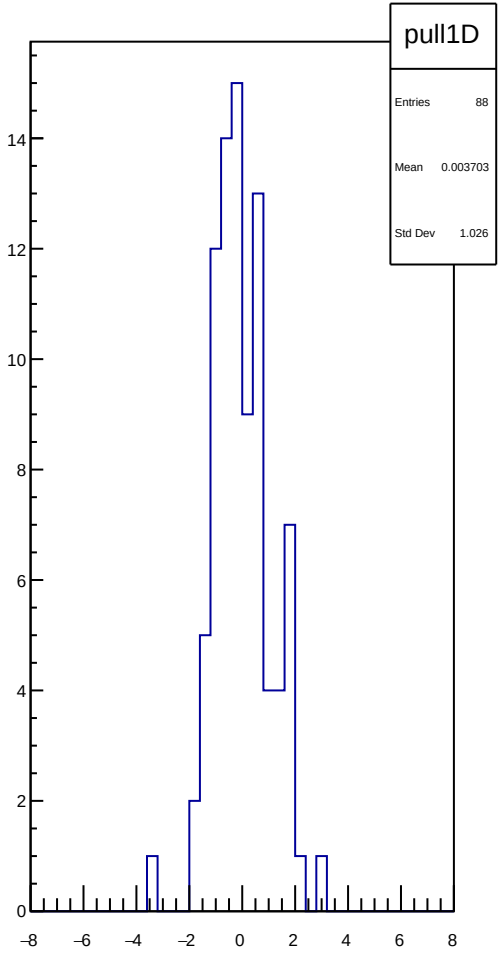

pull1D
Entries 88
Mean 0.01603
Std Dev 1.02

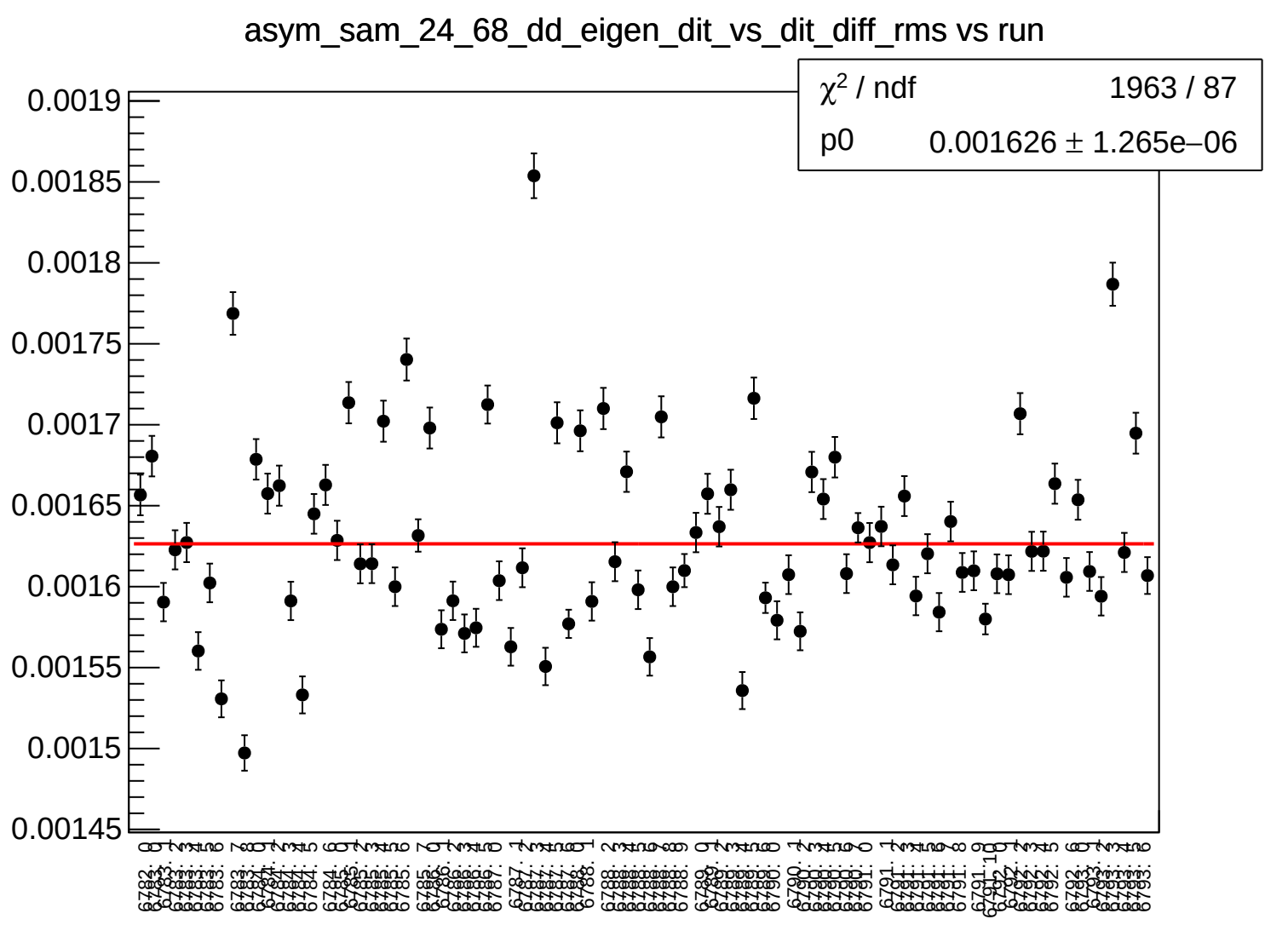

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9566 / 87
p0 44.18 ± 0.03445
54
52
50
48
46
44
42
40
38

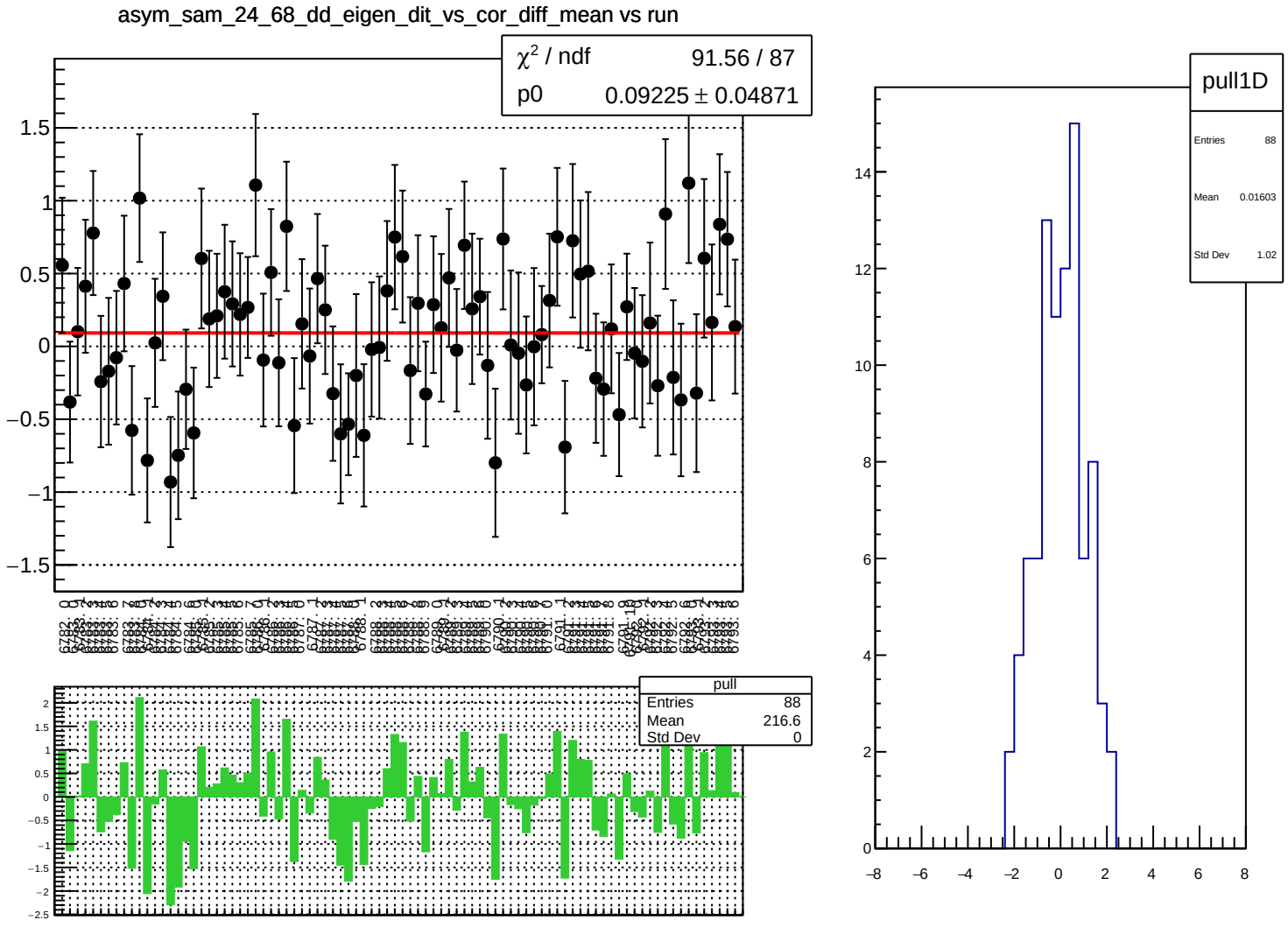

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.56 / 87
p0 0.09225 ± 0.04871
pull
Entries 88
Mean 216.6
Std Dev 0
pull1D
Entries 88
Mean 0.01603
Std Dev 1.02

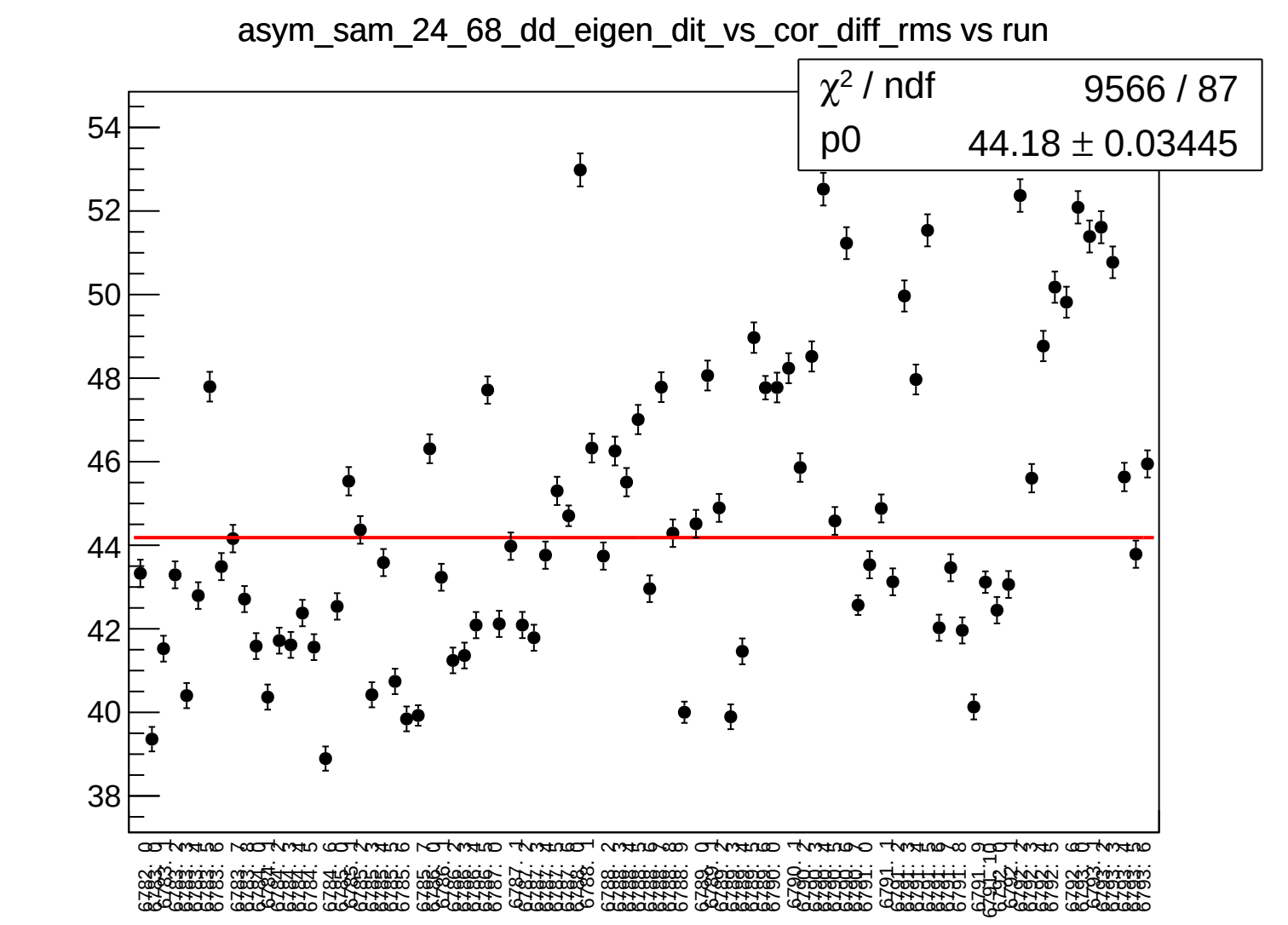

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9566 / 87
p0 44.18 ± 0.03445
54
52
50
48
46
44
42
40
38

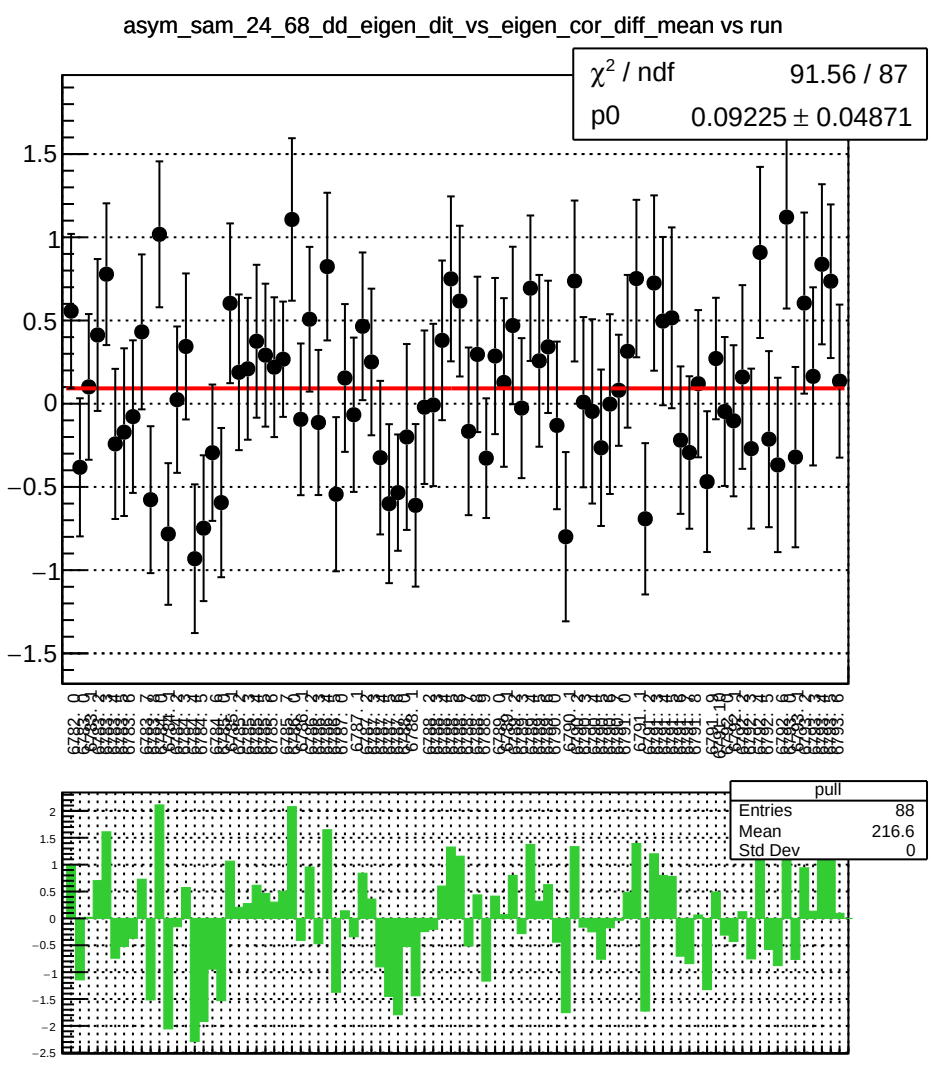

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.67 / 87
p0 6.908e−07 ± 1.789e−06
pull
Entries 88
Mean 30.36
Std Dev 0

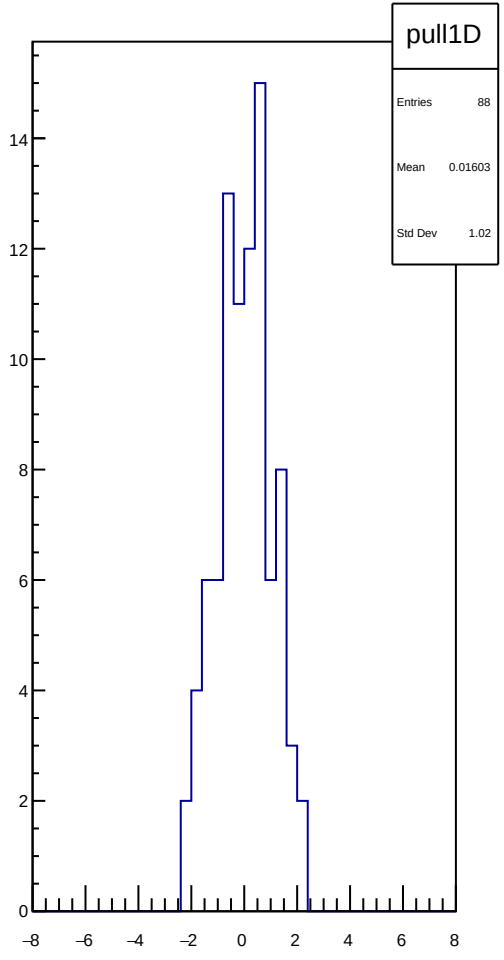

pull1D
Entries 88
Mean 0.003703
Std Dev 1.026

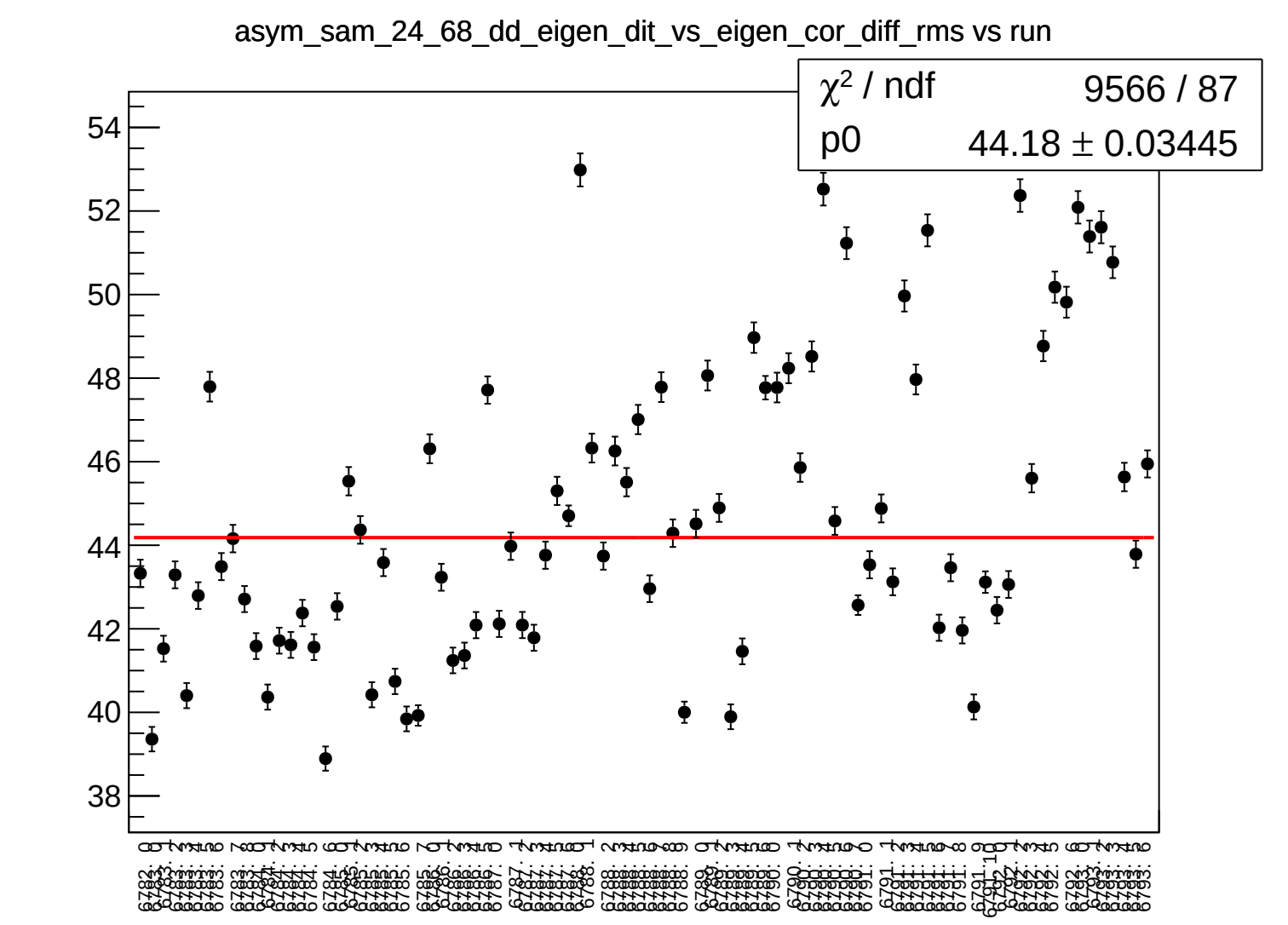

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1963 / 87
p0 0.001626 ± 1.265e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

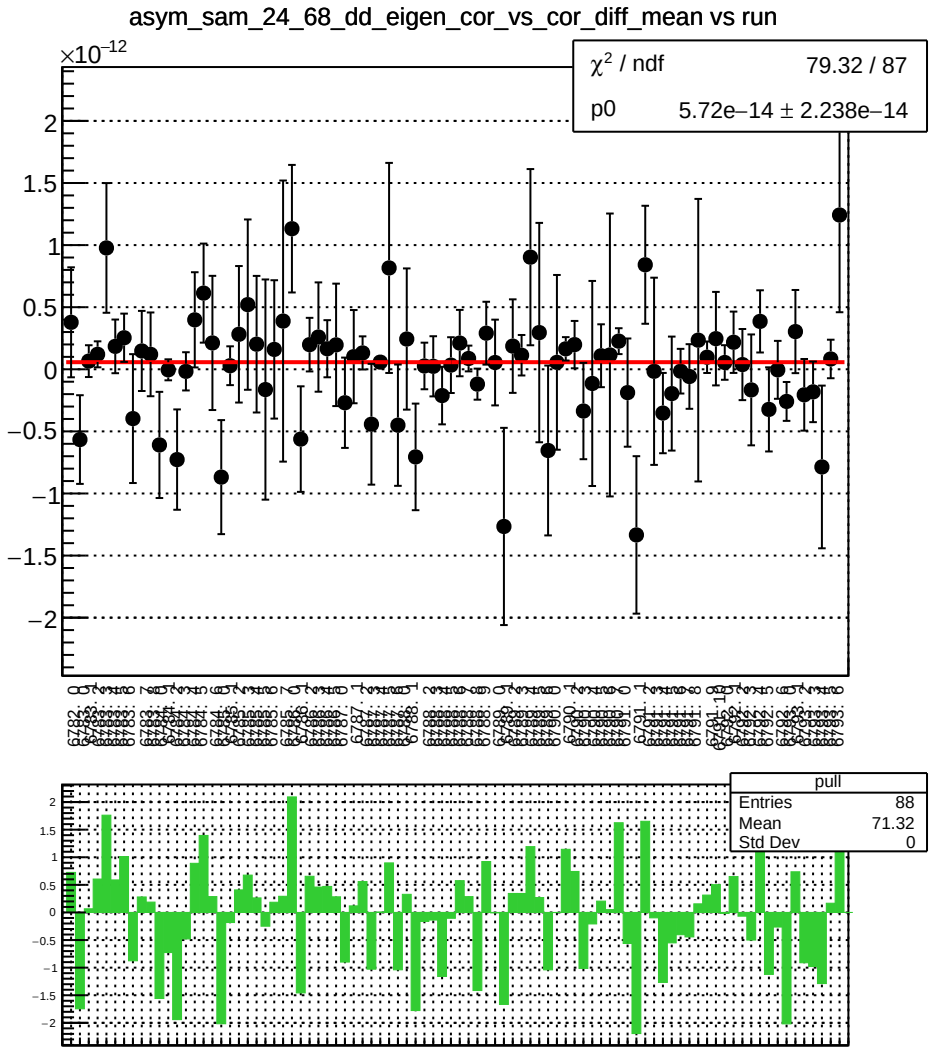

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 87
p0 0.09225 ± 0.04871
pull
Entries 88
Mean 216.6
Std Dev 0
pull1D
Entries 88
Mean 0.01603
Std Dev 1.02

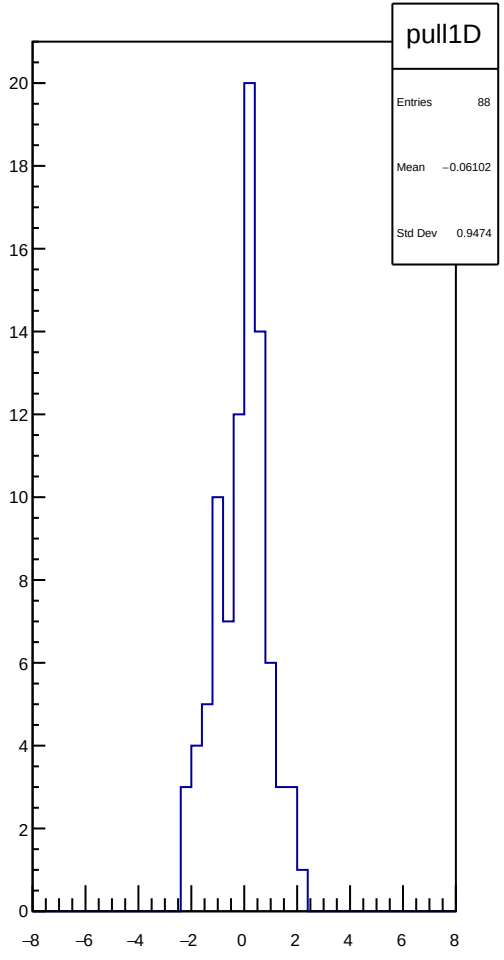

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9566 / 87
p0 44.18 ± 0.03445
54
52
50
48
46
44
42
40
38

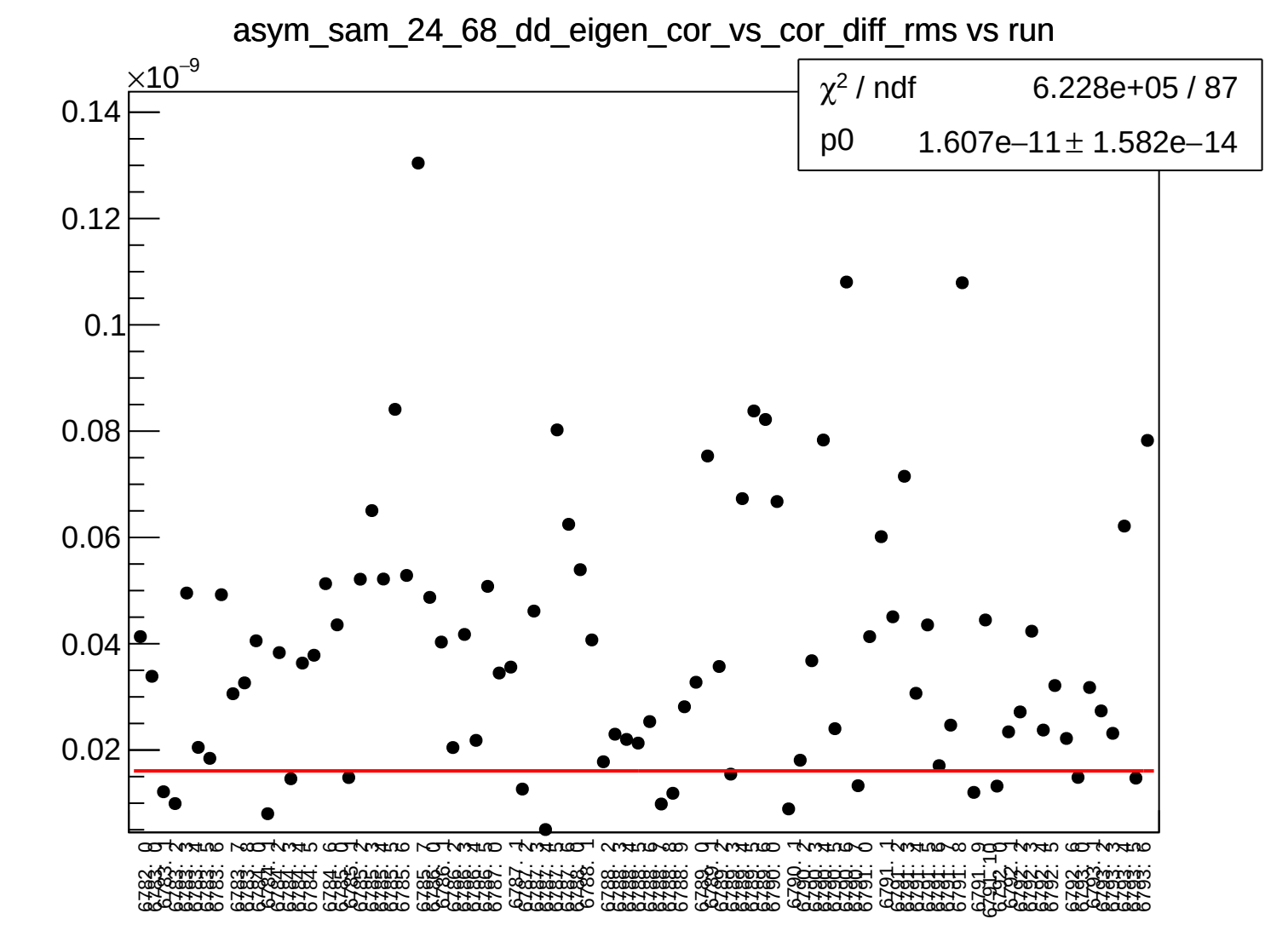

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.56 / 87
p0 0.09225 ± 0.04871
pull
Entries 88
Mean 216.6
Std Dev 0

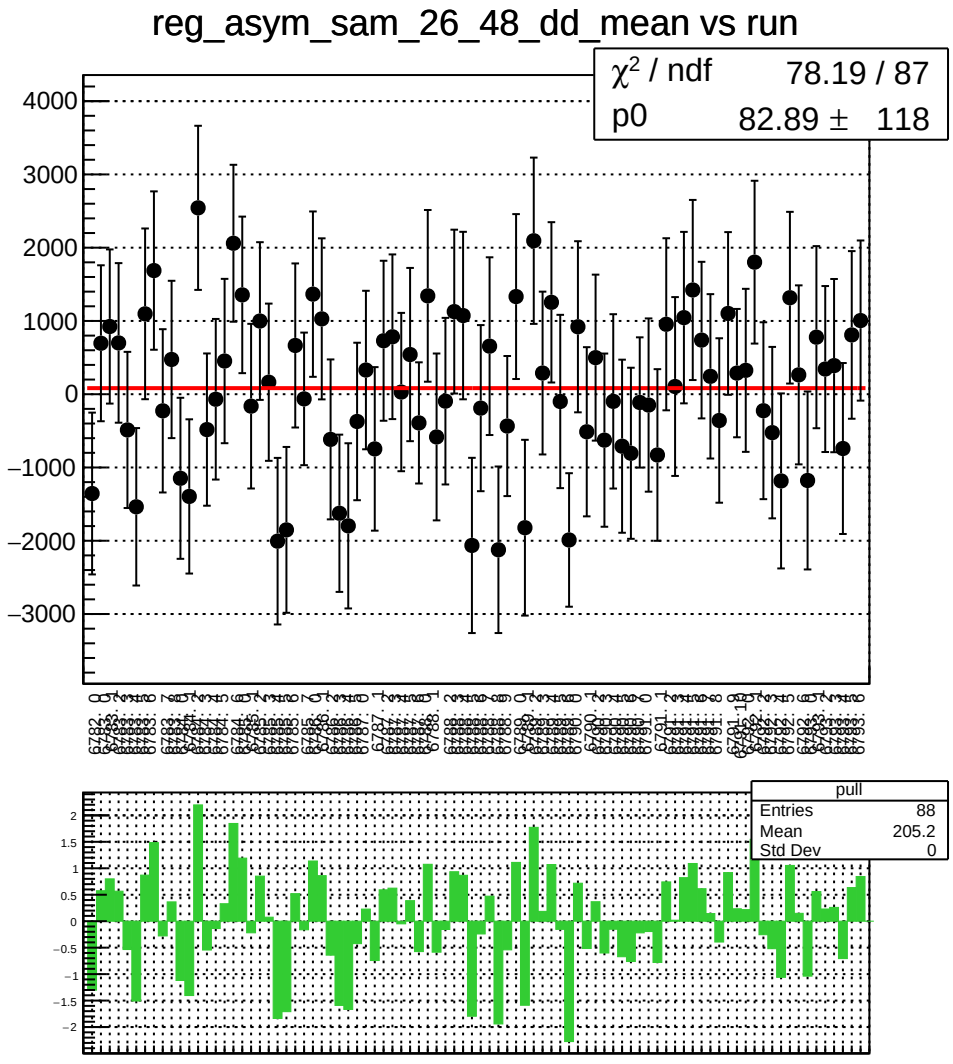

pull1D
Entries 88
Mean 0.01603
Std Dev 1.02

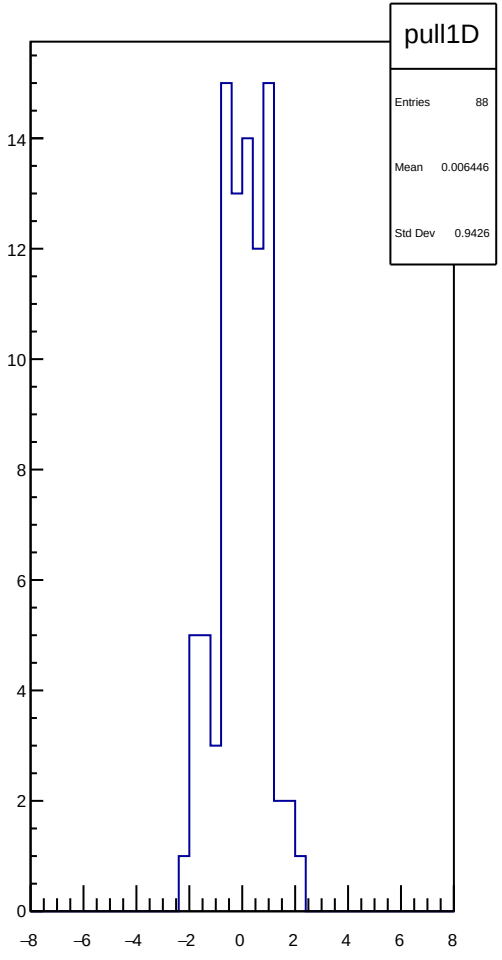

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9566 / 87
p0 44.18 ± 0.03445
54
52
50
48
46
44
42
40
38

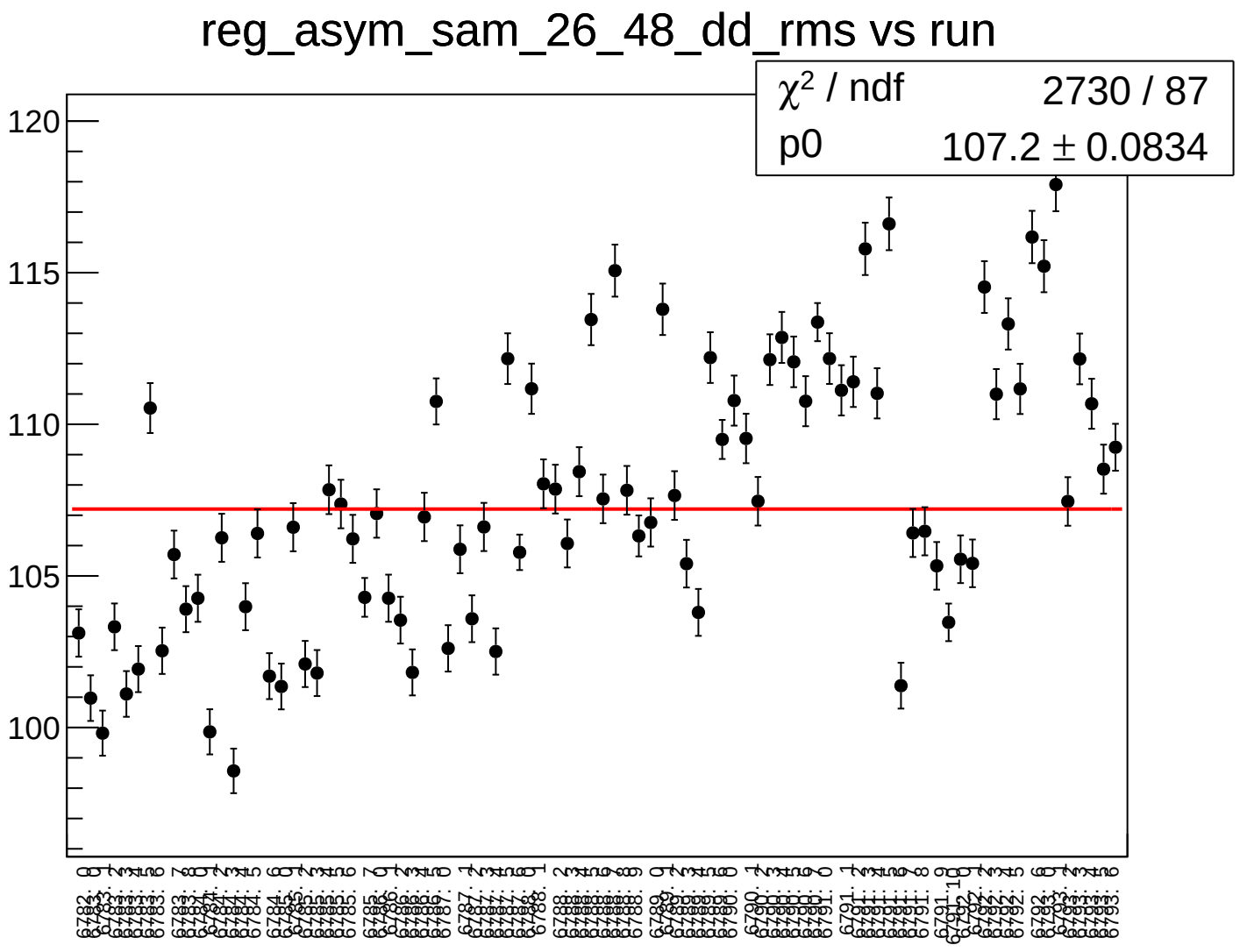

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 79.32 / 87
p0 5.72e−14 ± 2.238e−14
pull
Entries 88
Mean 71.32
Std Dev 0

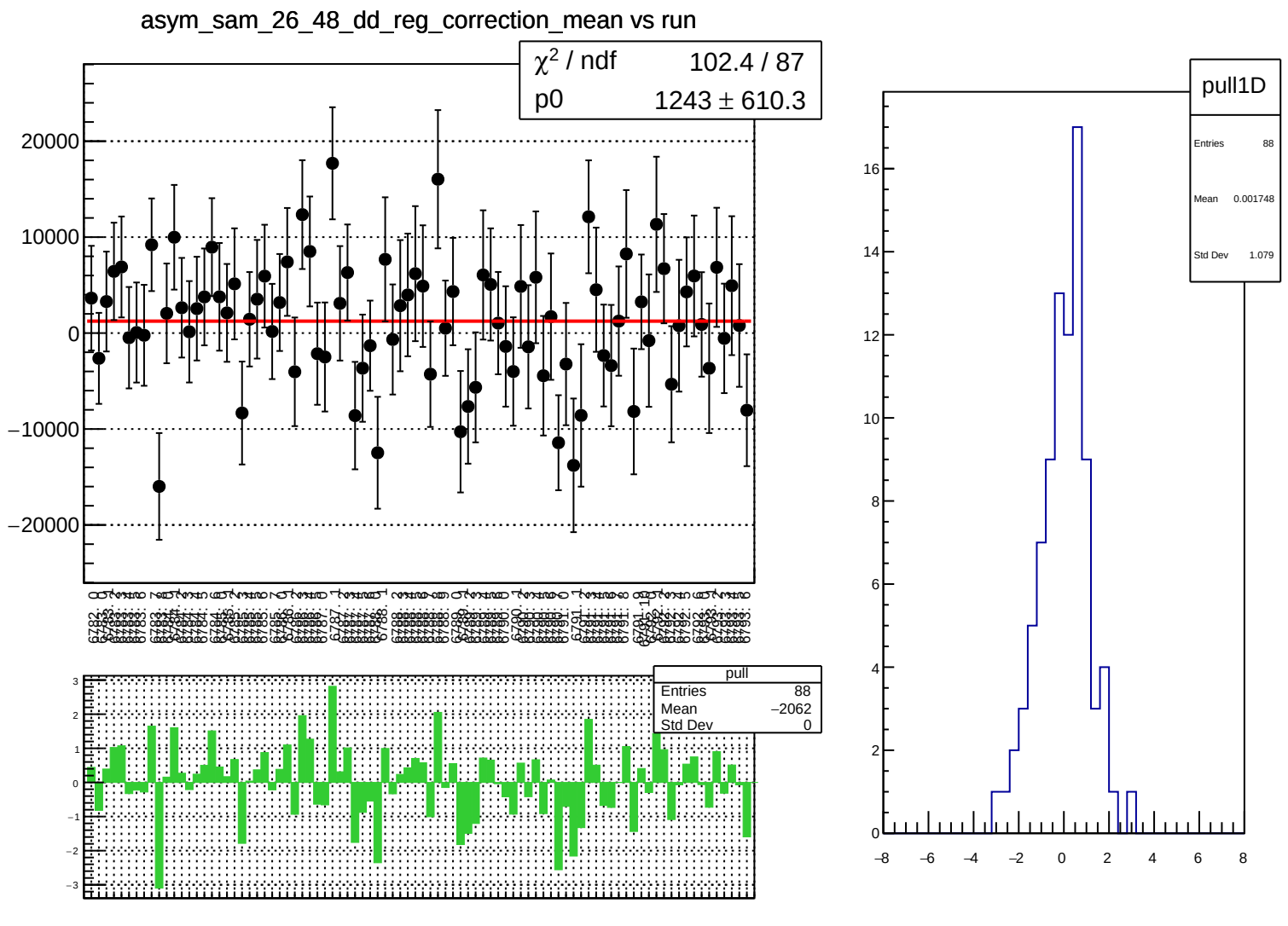

pull1D
Entries 88
Mean −0.06102
Std Dev 0.9474

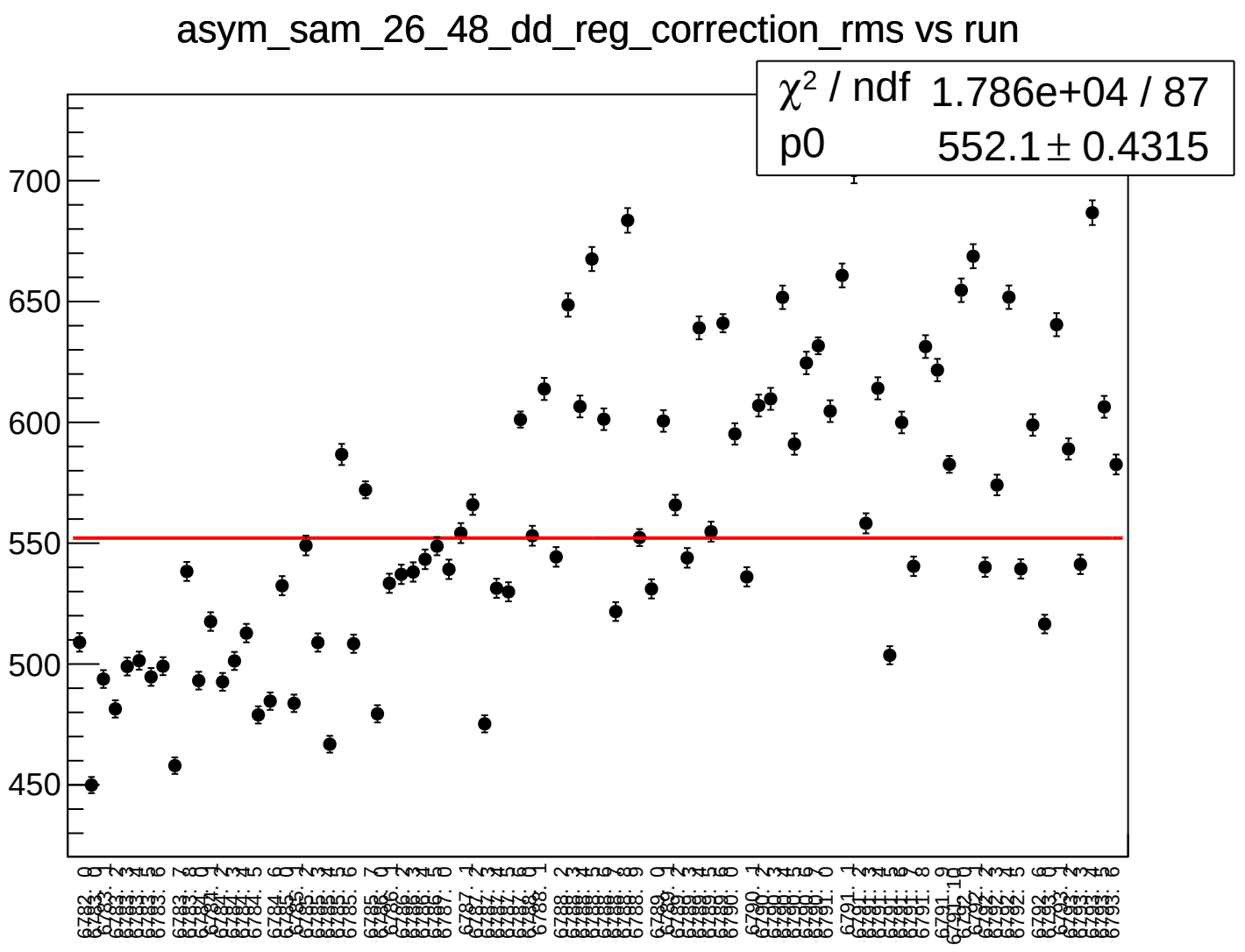

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.228e+05 / 87
p0 1.607e−11 ± 1.582e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

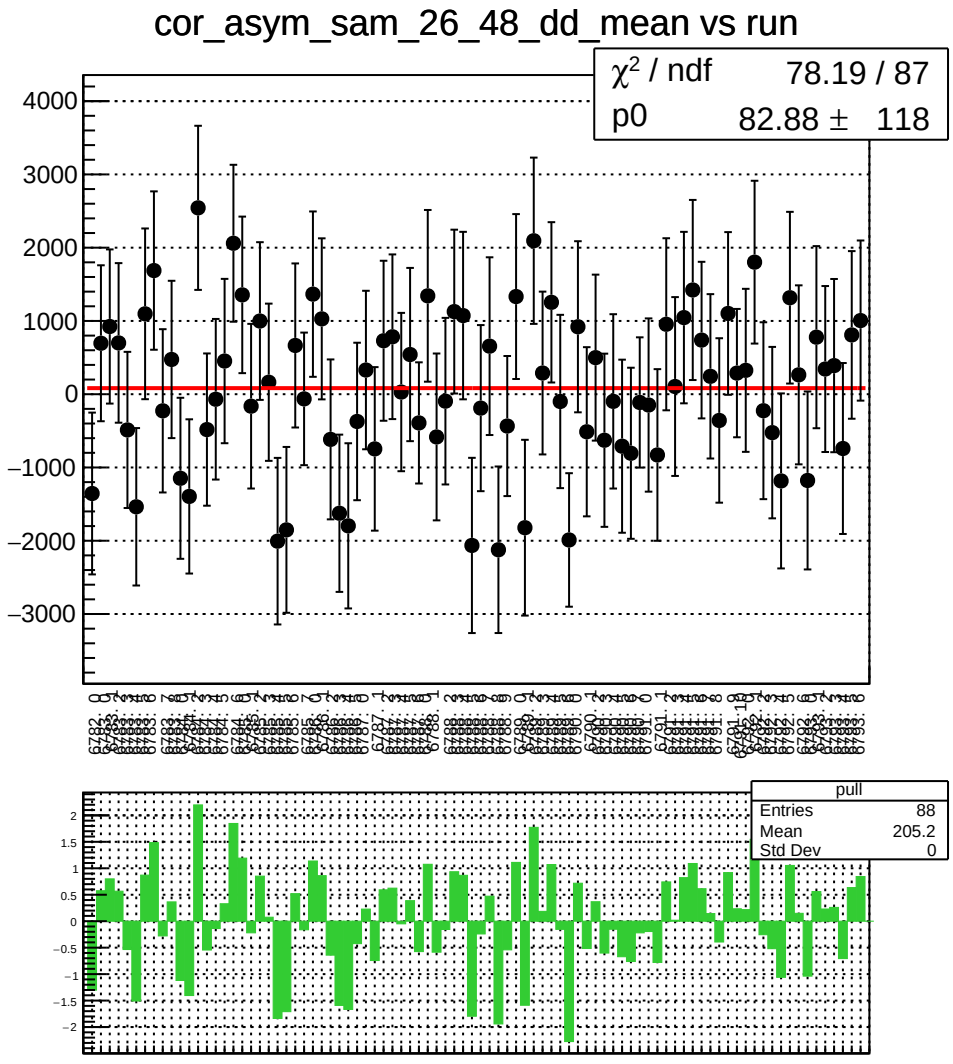

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.19 / 87
p0 82.89 ± 118
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 205.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

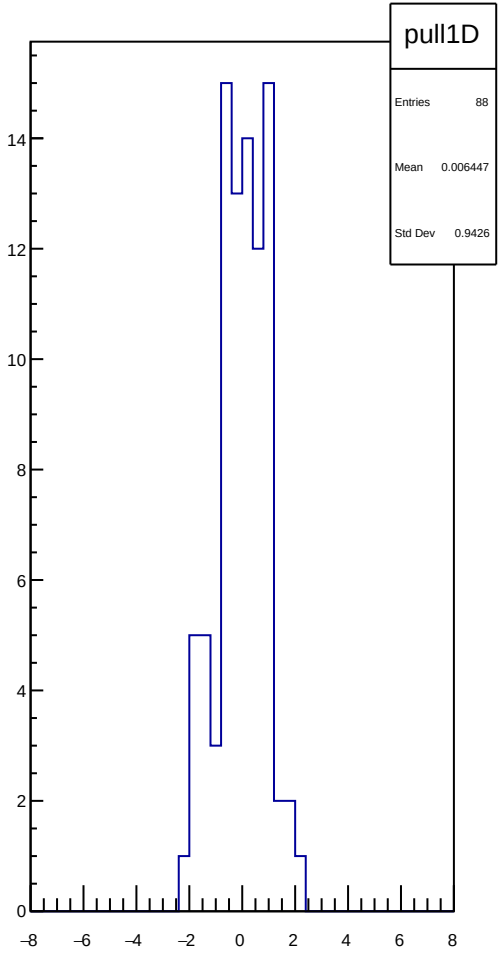

pull1D
Entries 88
Mean 0.006446
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

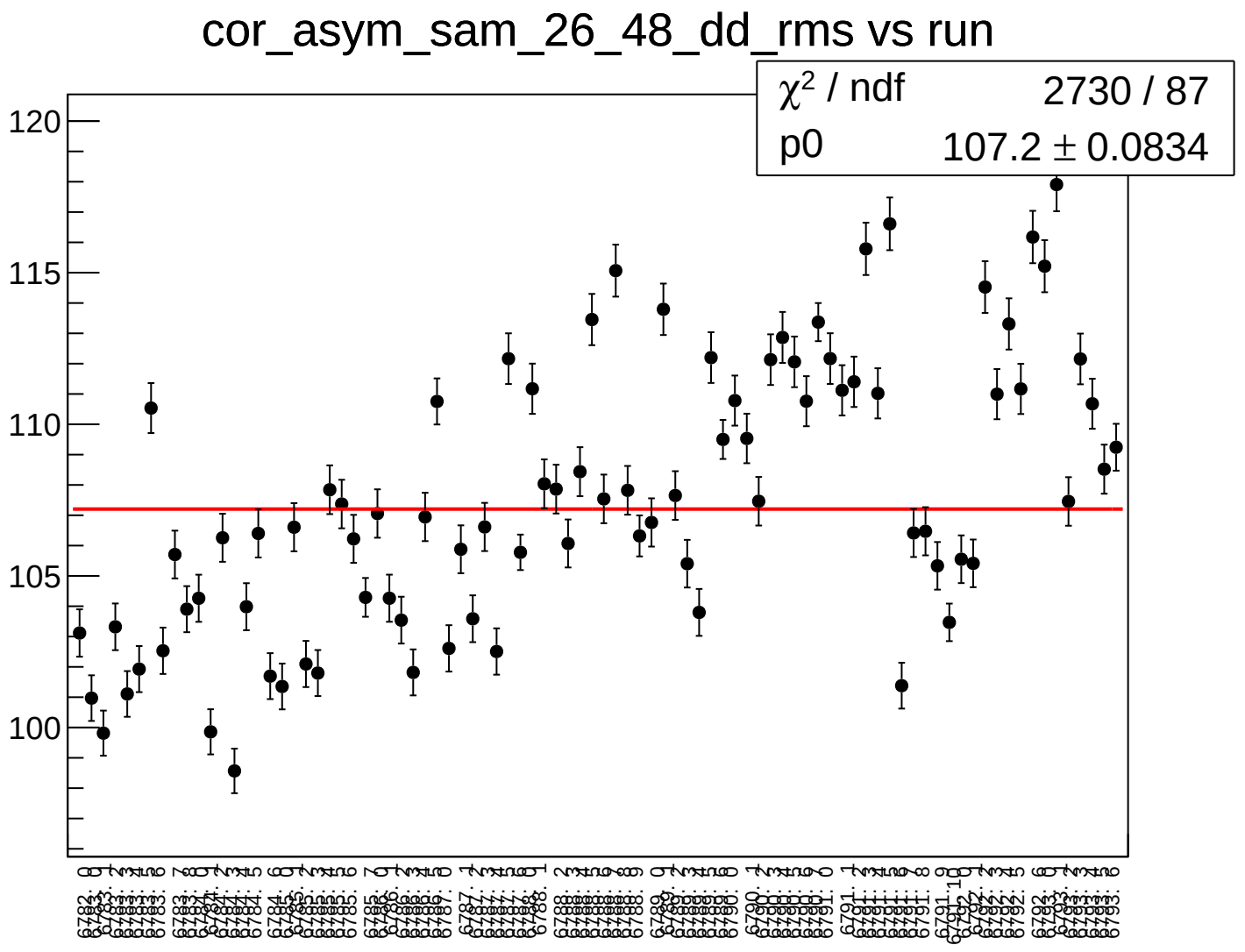

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2730 / 87
p0 107.2 ± 0.0834
120
115
110
105
100

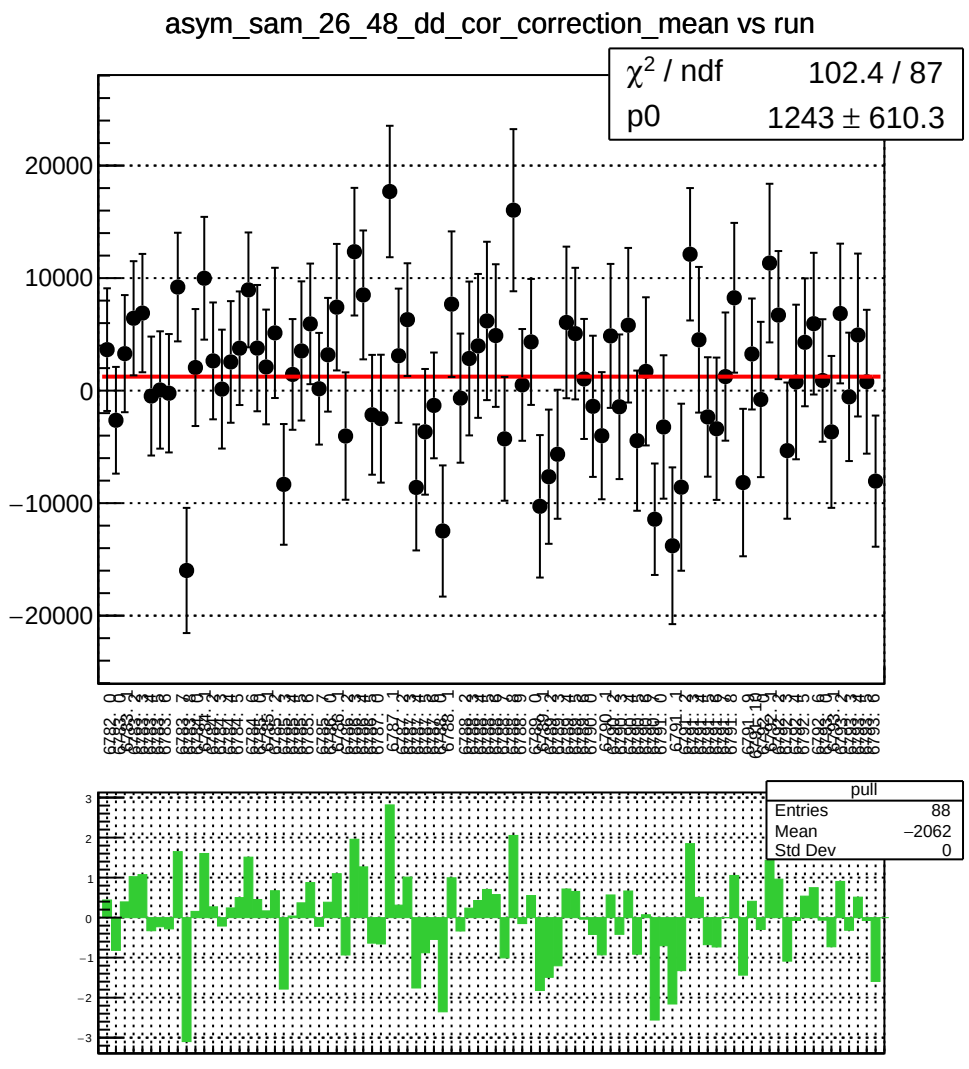

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 102.4 / 87
p0 1243 ± 610.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −2062
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.001748
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

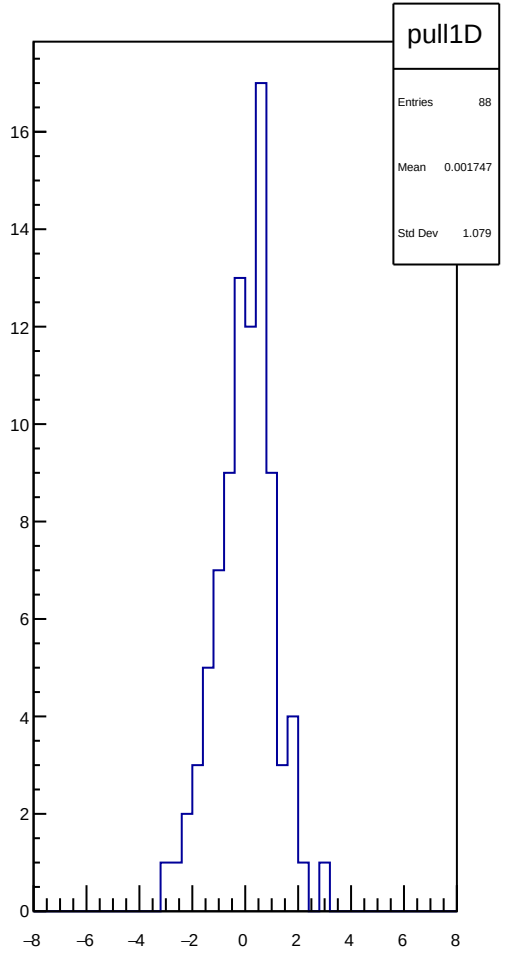

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.786e+04 / 87
p0 552.1 ± 0.4315
700
650
600
550
500
450

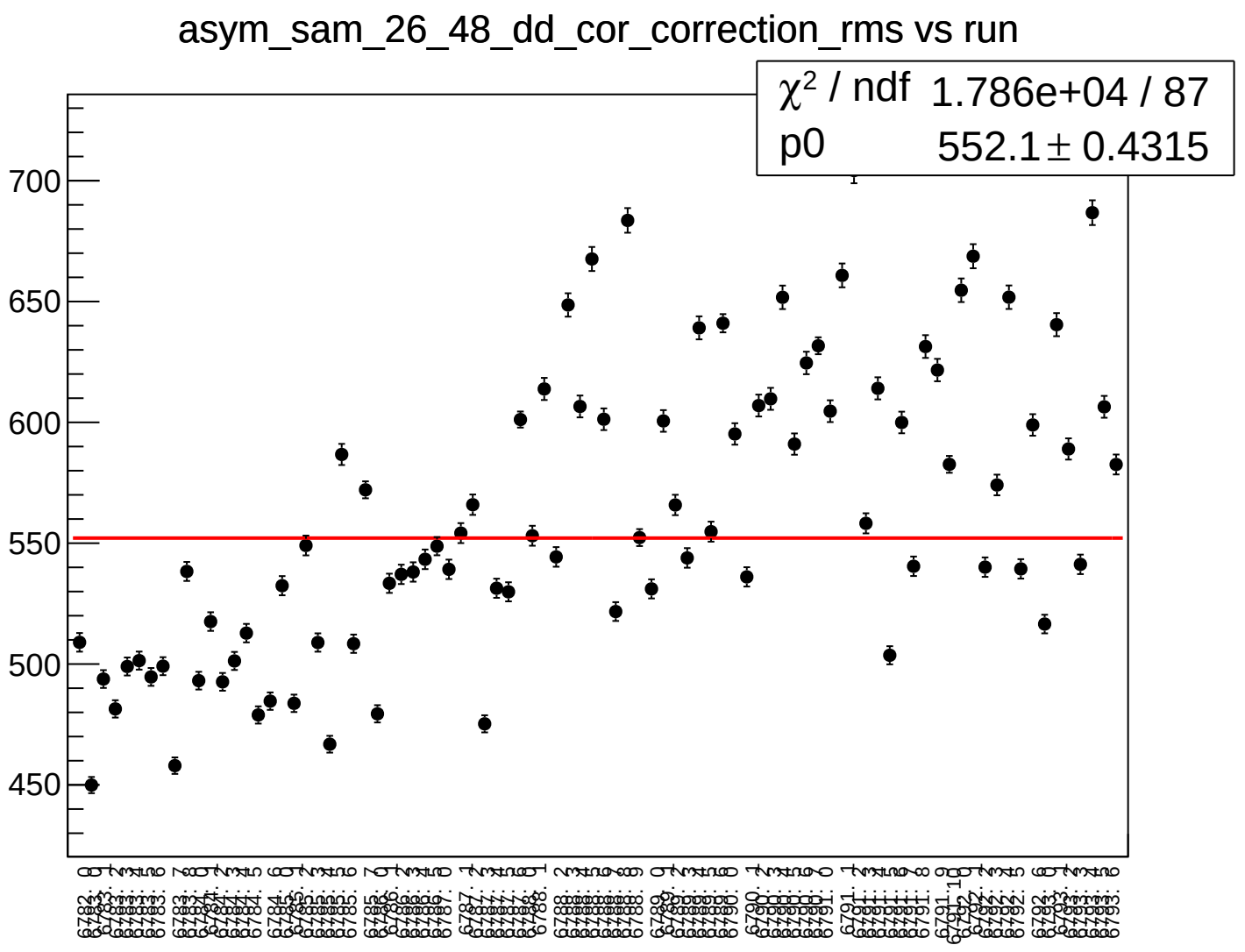

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.19 / 87
p0 82.88 ± 118
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 205.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

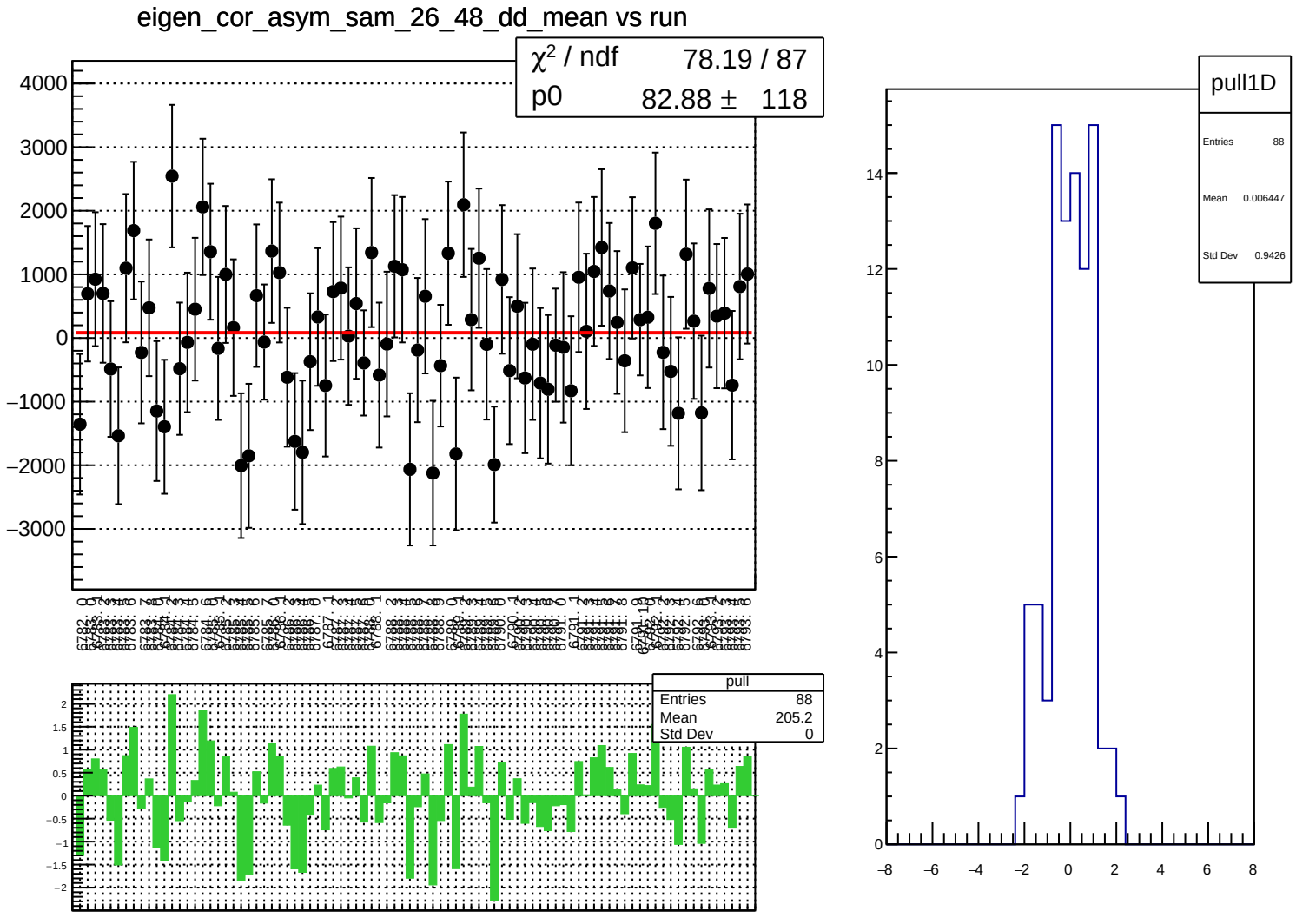

pull1D
Entries 88
Mean 0.006447
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

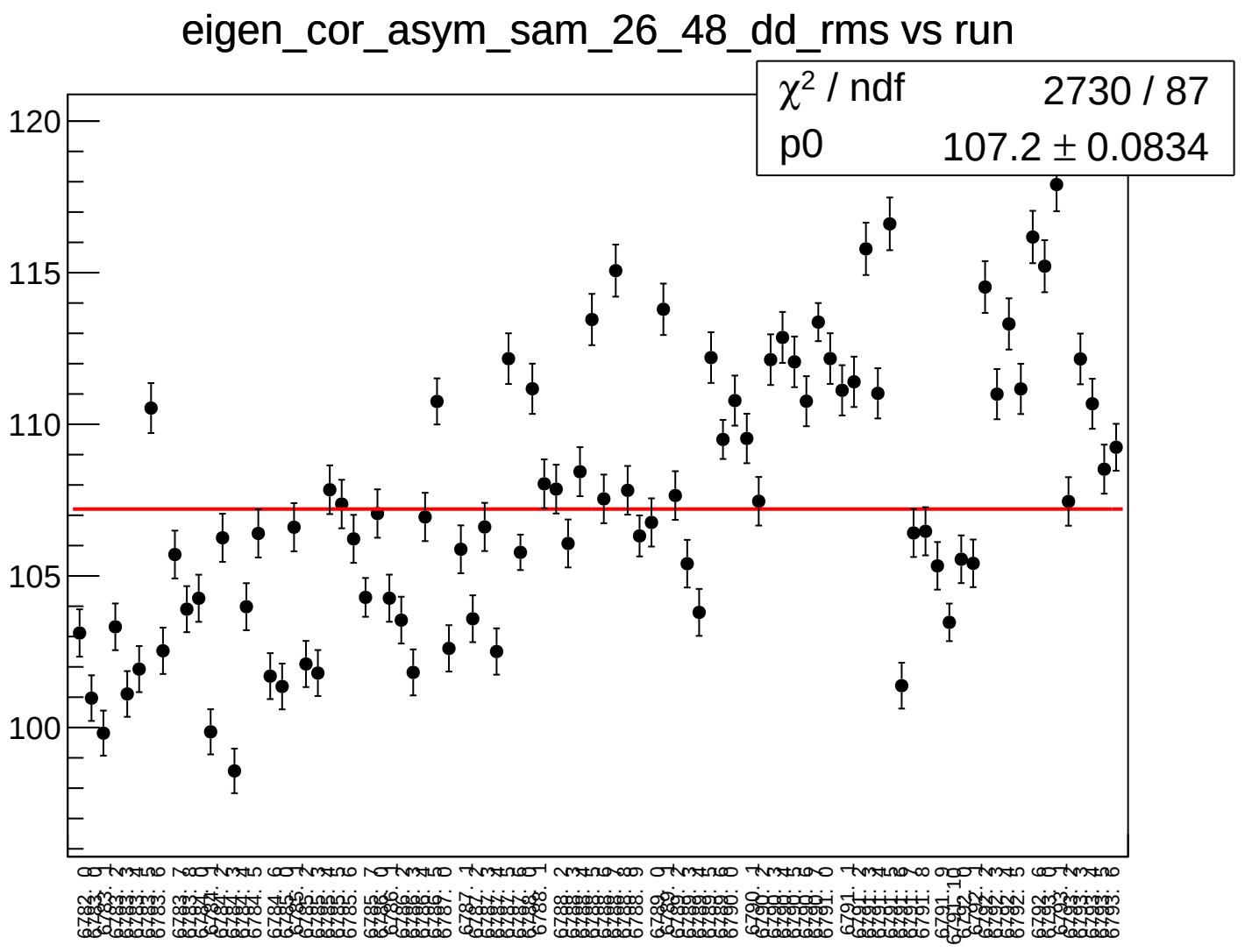

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2730 / 87
p0 107.2 ± 0.0834
120
115
110
105
100

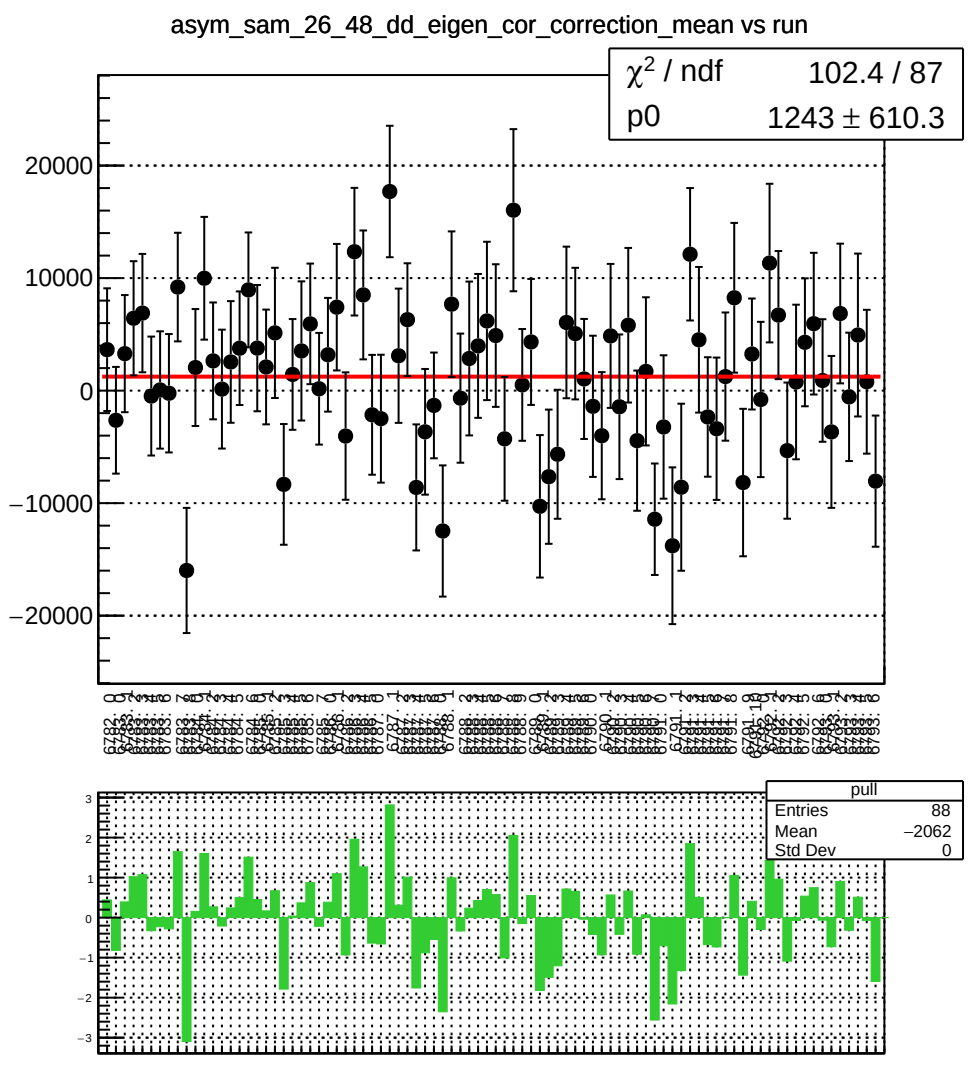

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 102.4 / 87
p0 1243 ± 610.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −2062
Std Dev 0
3
2
1
0
−1
−2
−3

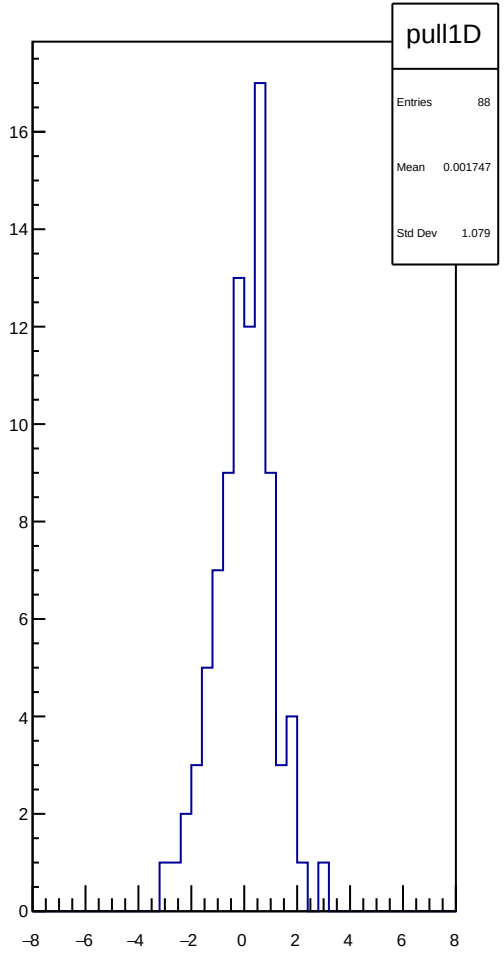

pull1D
Entries 88
Mean 0.001747
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

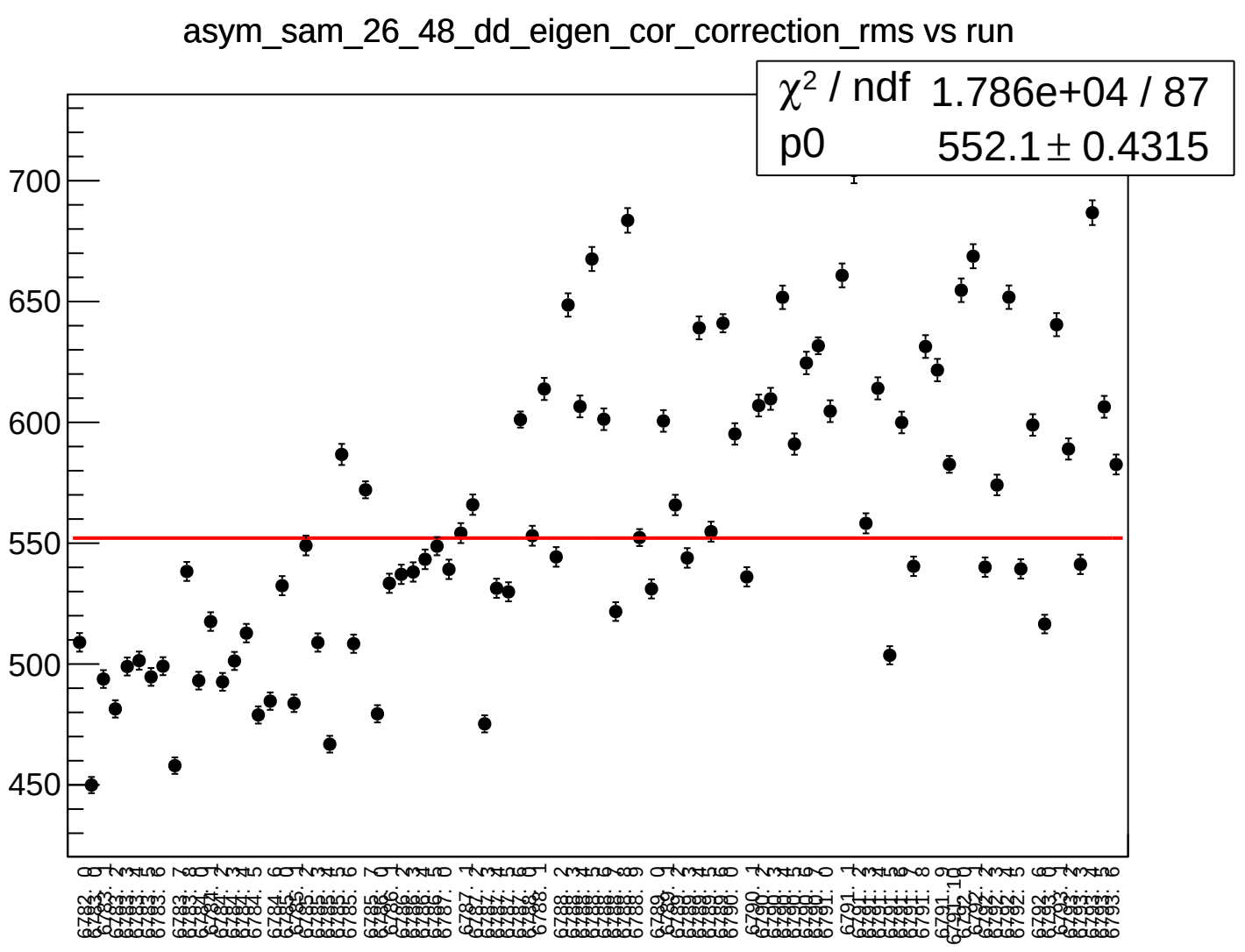

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.786e+04 / 87
p0 552.1 ± 0.4315
700
650
600
550
500
450

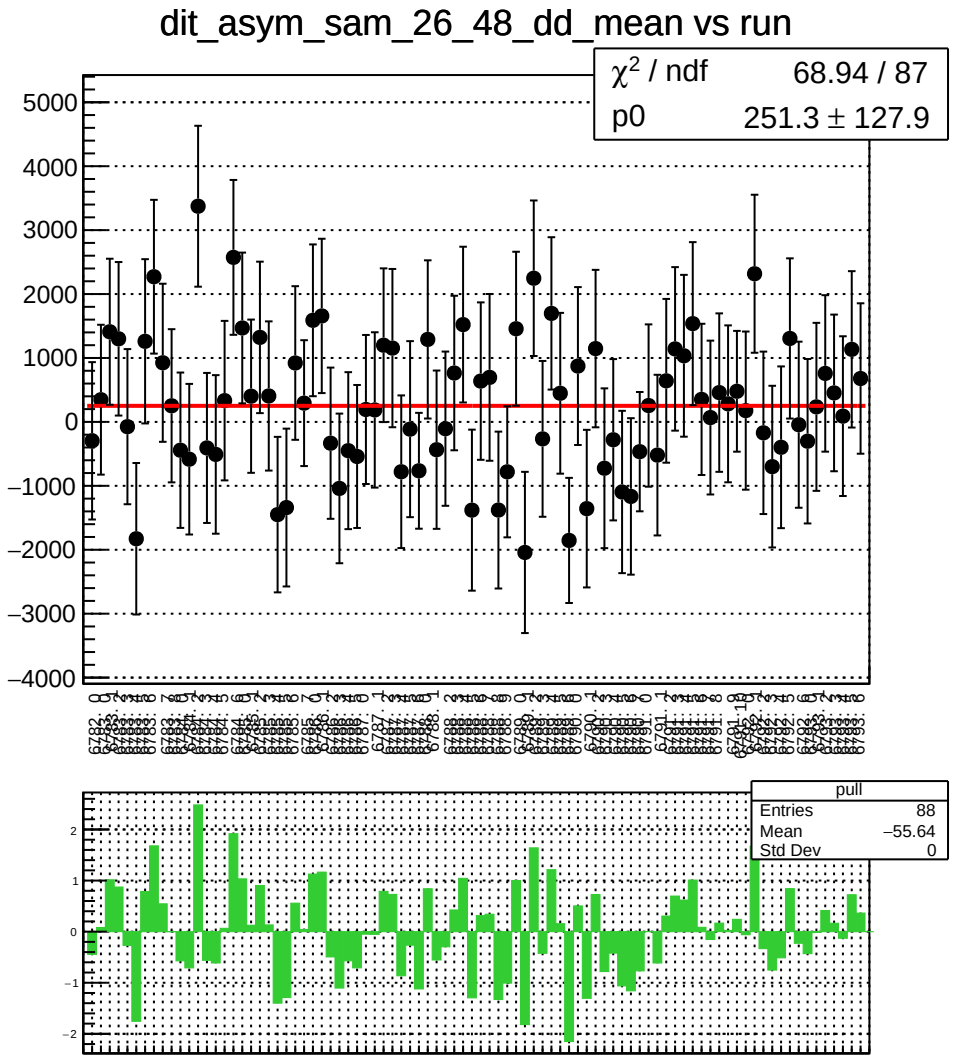

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.19 / 87
p0 82.88 ± 118
pull
Entries 88
Mean 205.2
Std Dev 0
pull1D
Entries 88
Mean 0.006447
Std Dev 0.9426

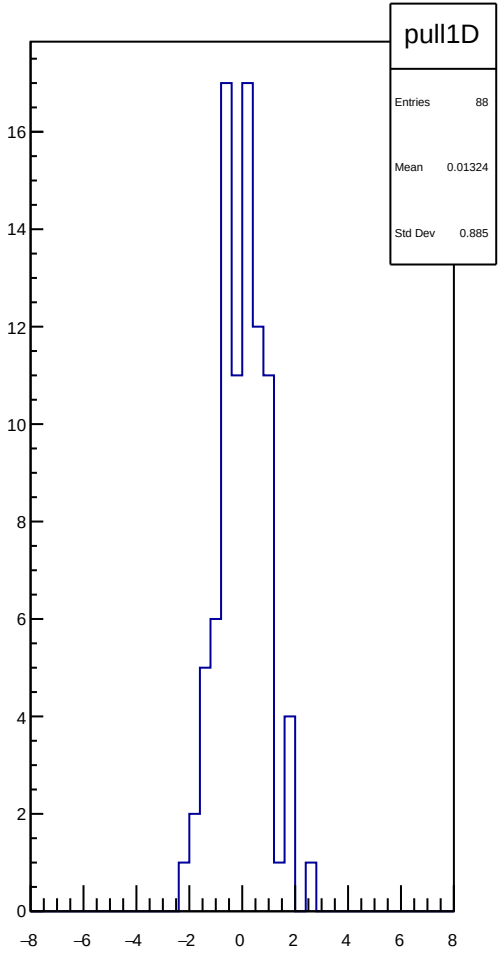

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2730 / 87
p0 107.2 ± 0.0834
120
115
110
105
100

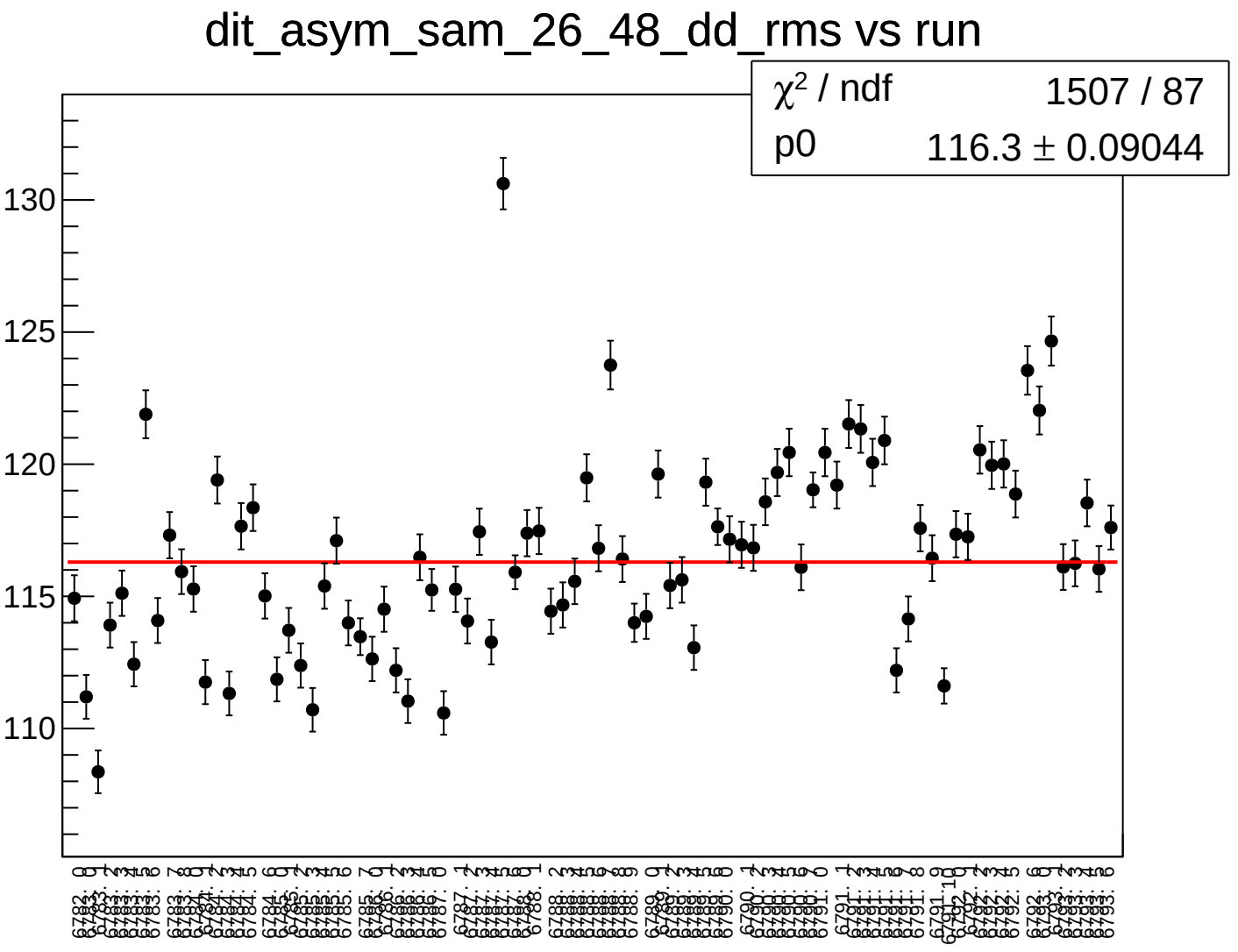

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.4 / 87
p0 1243 ± 610.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −2062
Std Dev 0
3
2
1
0
−1
−2
−3

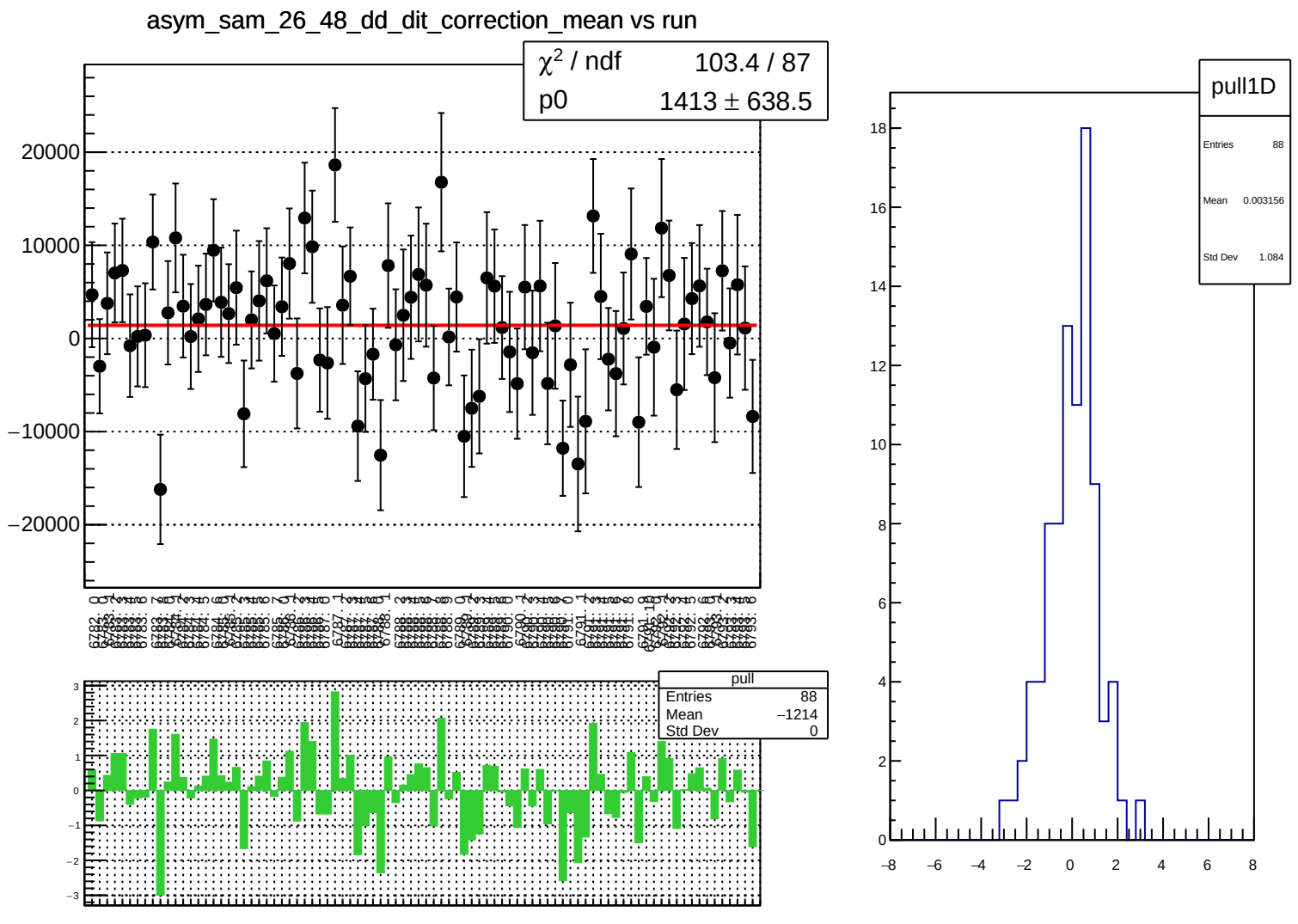

pull1D
Entries 88
Mean 0.001747
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

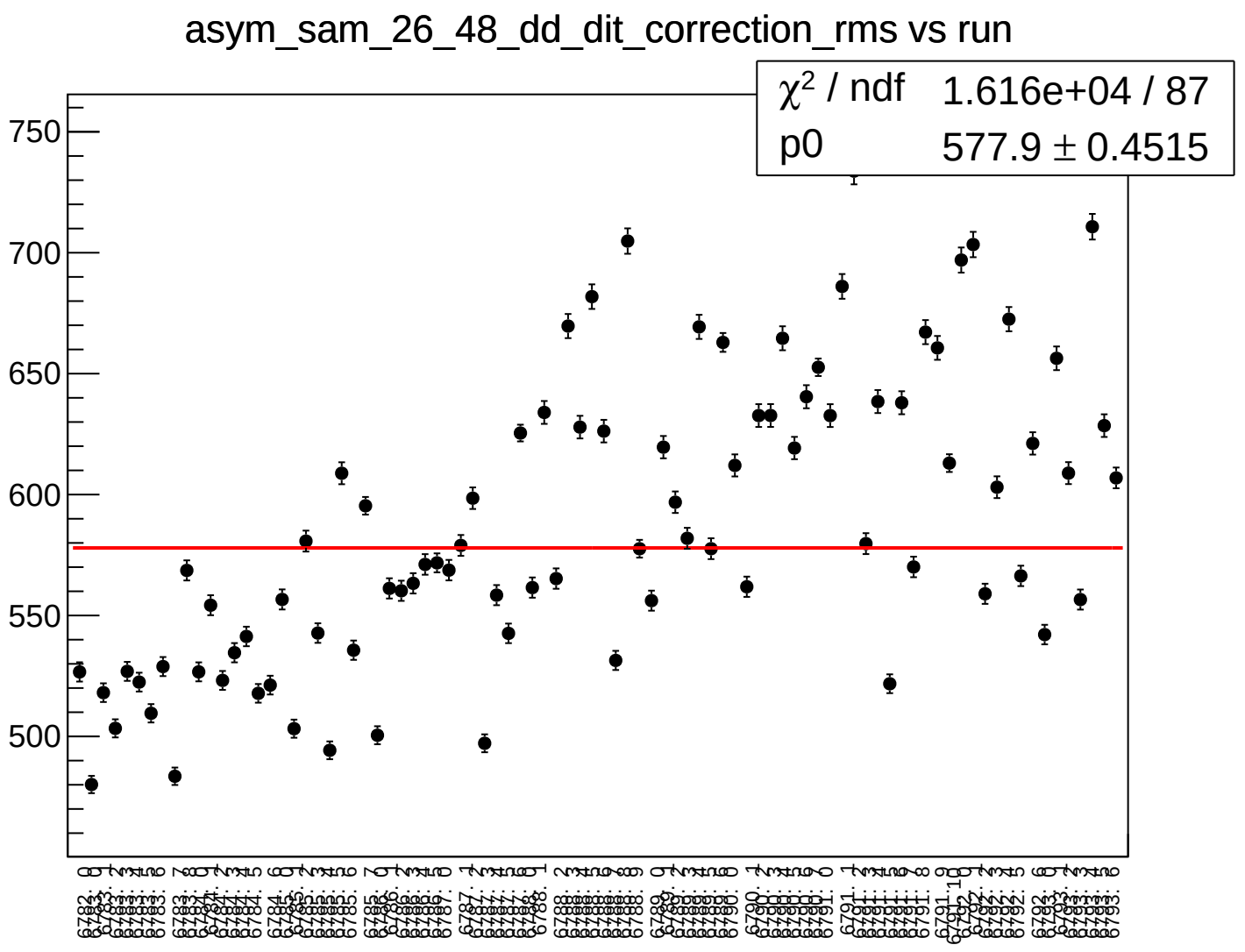

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.786e+04 / 87
p0 552.1 ± 0.4315
700
650
600
550
500
450

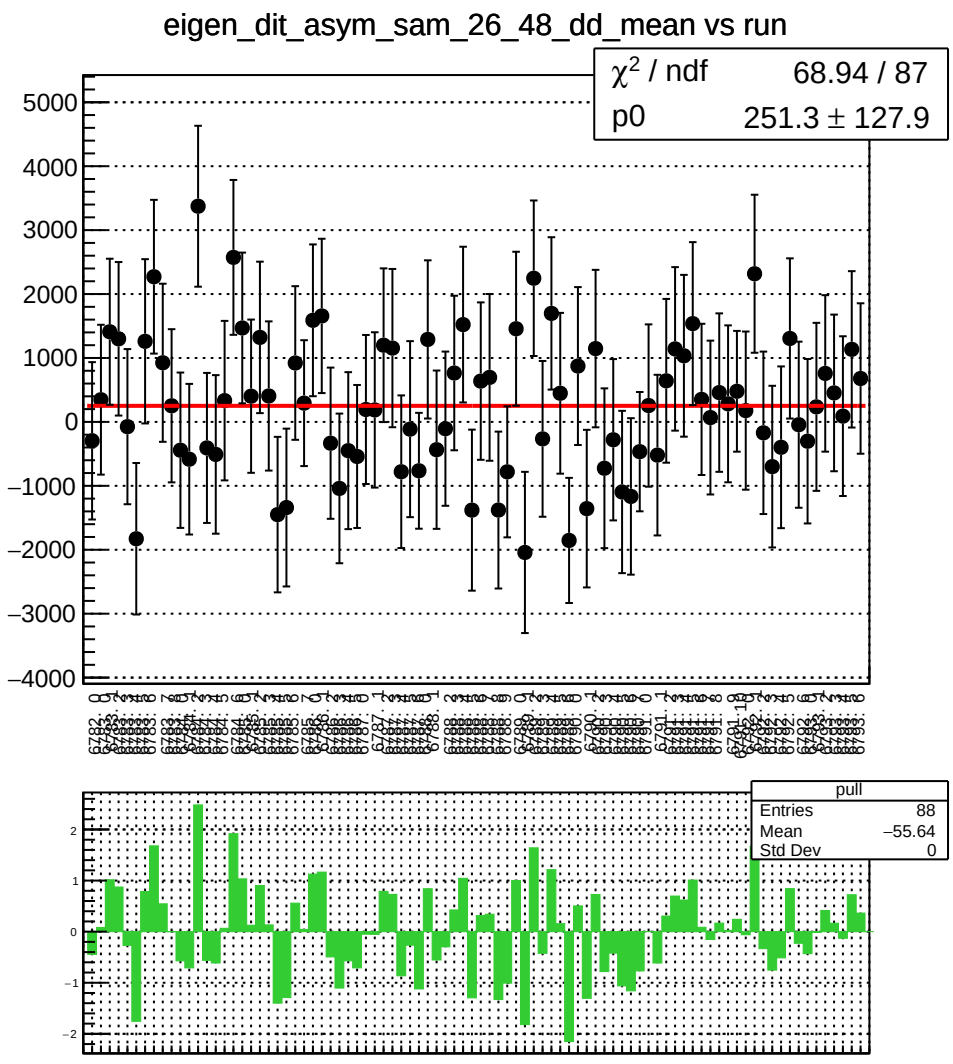

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 68.94 / 87
p0 251.3 ± 127.9
pull
Entries 88
Mean −55.64
Std Dev 0

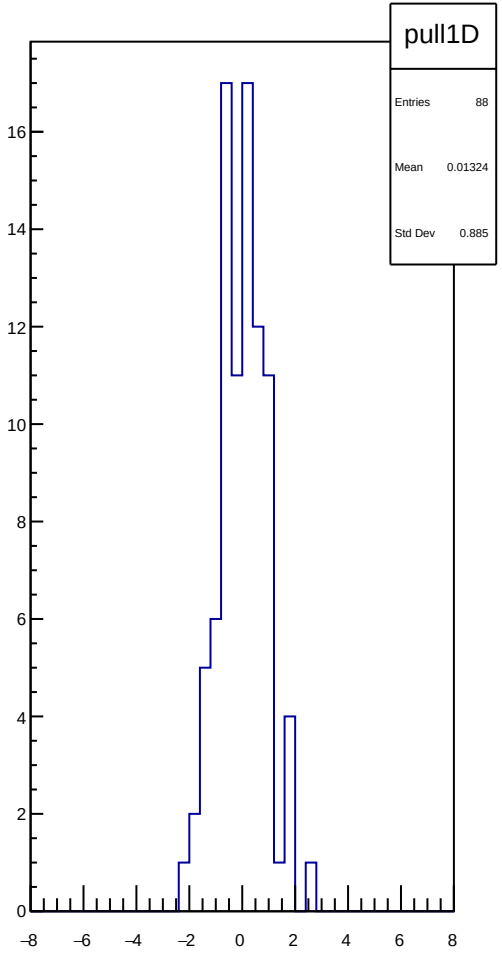

pull1D
Entries 88
Mean 0.01324
Std Dev 0.885

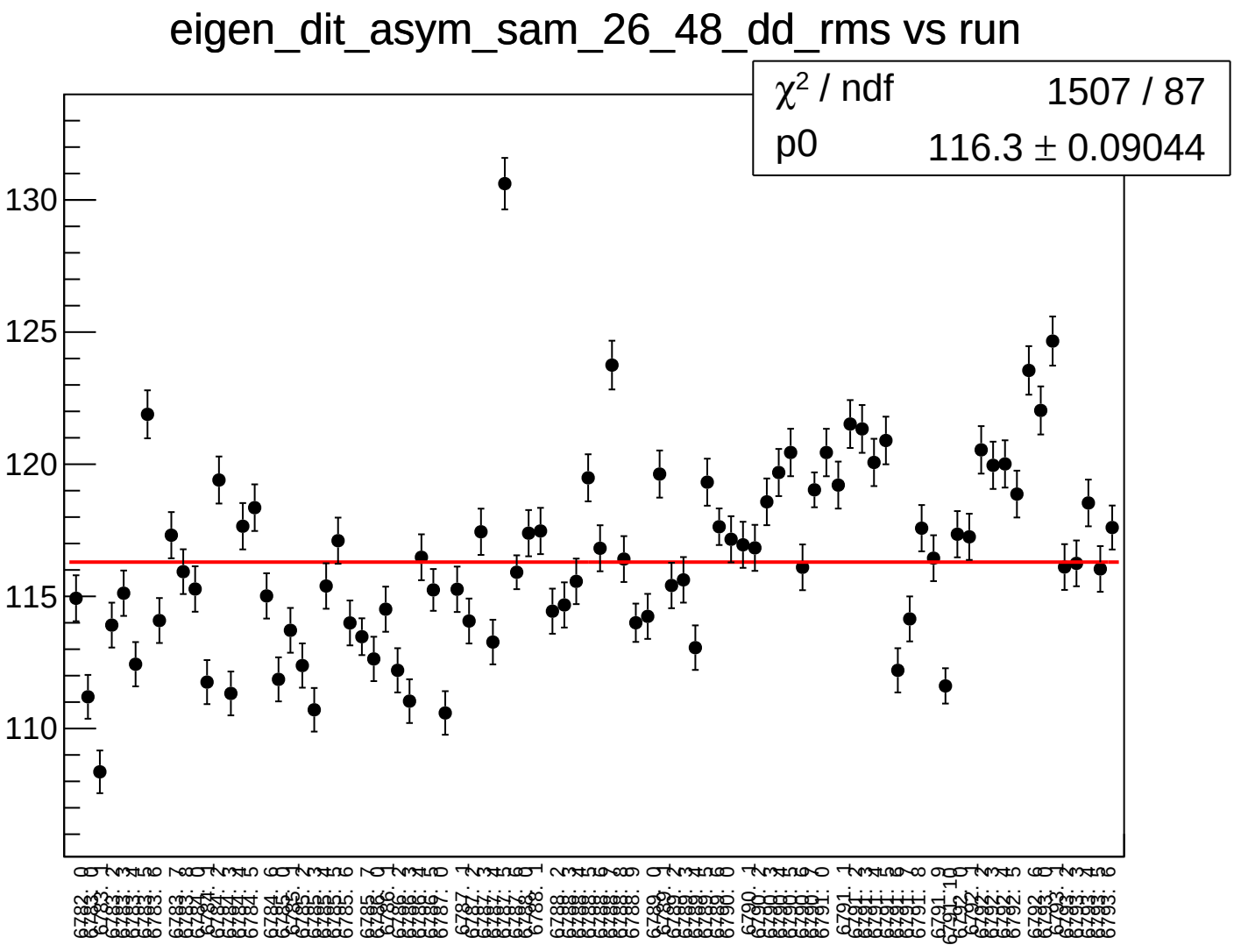

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1507 / 87
p0 116.3 ± 0.09044
130
125
120
115
110

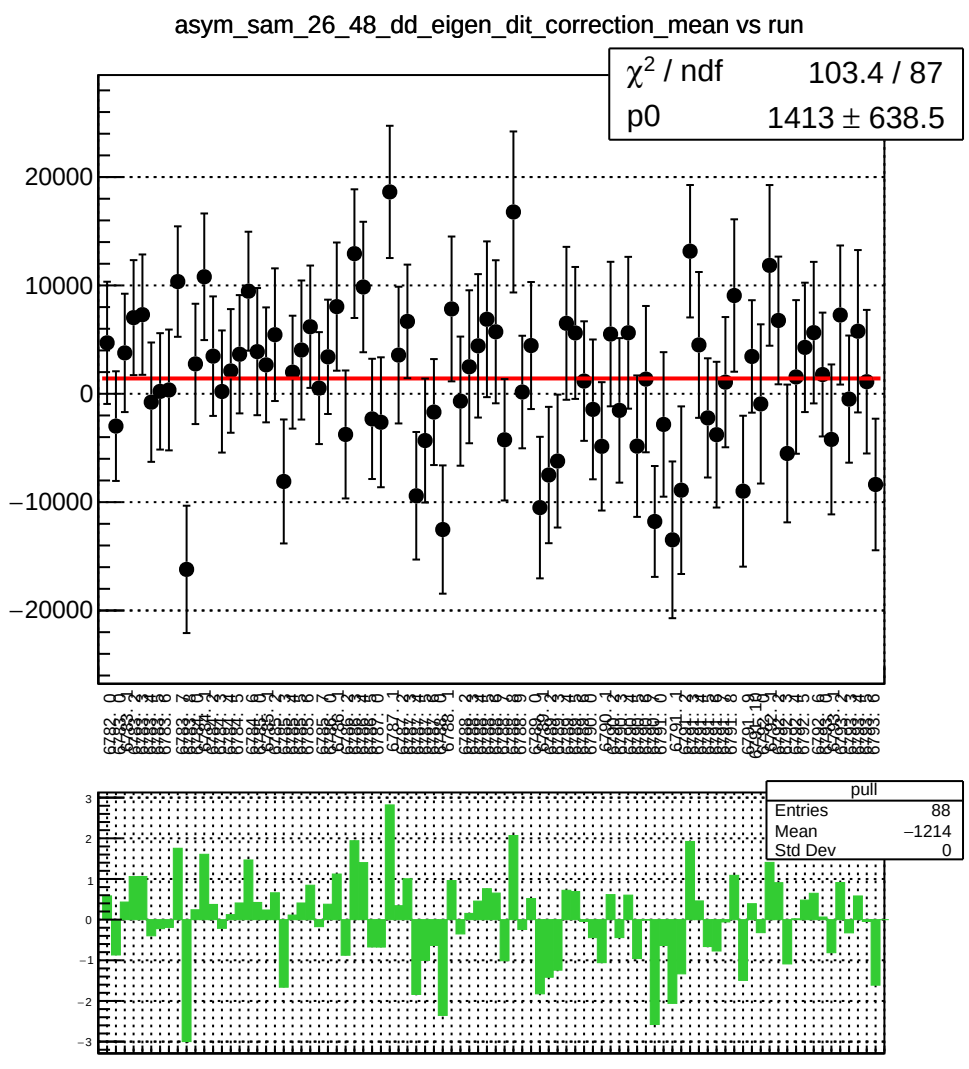

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 103.4 / 87
p0 1413 ± 638.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −1214
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.003156
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

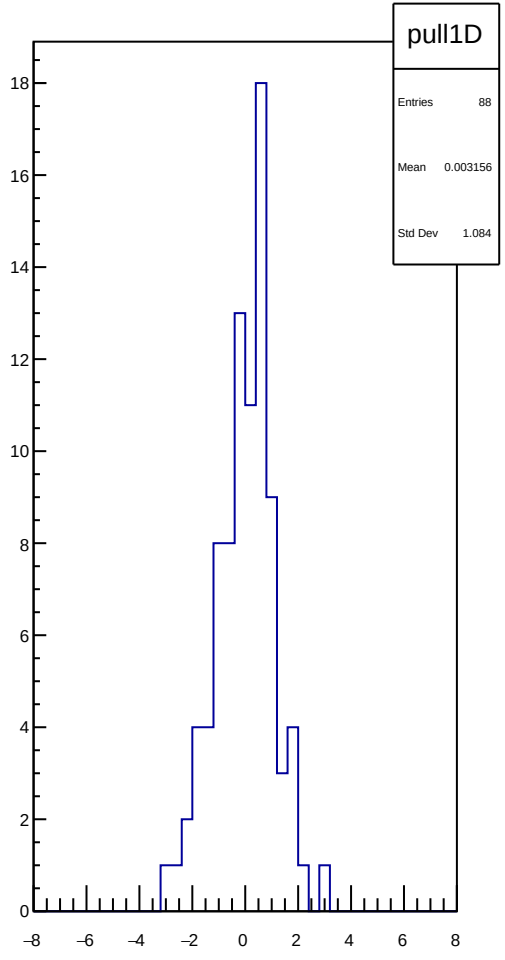

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.616e+04 / 87
p0 577.9 ± 0.4515
750
700
650
600
550
500

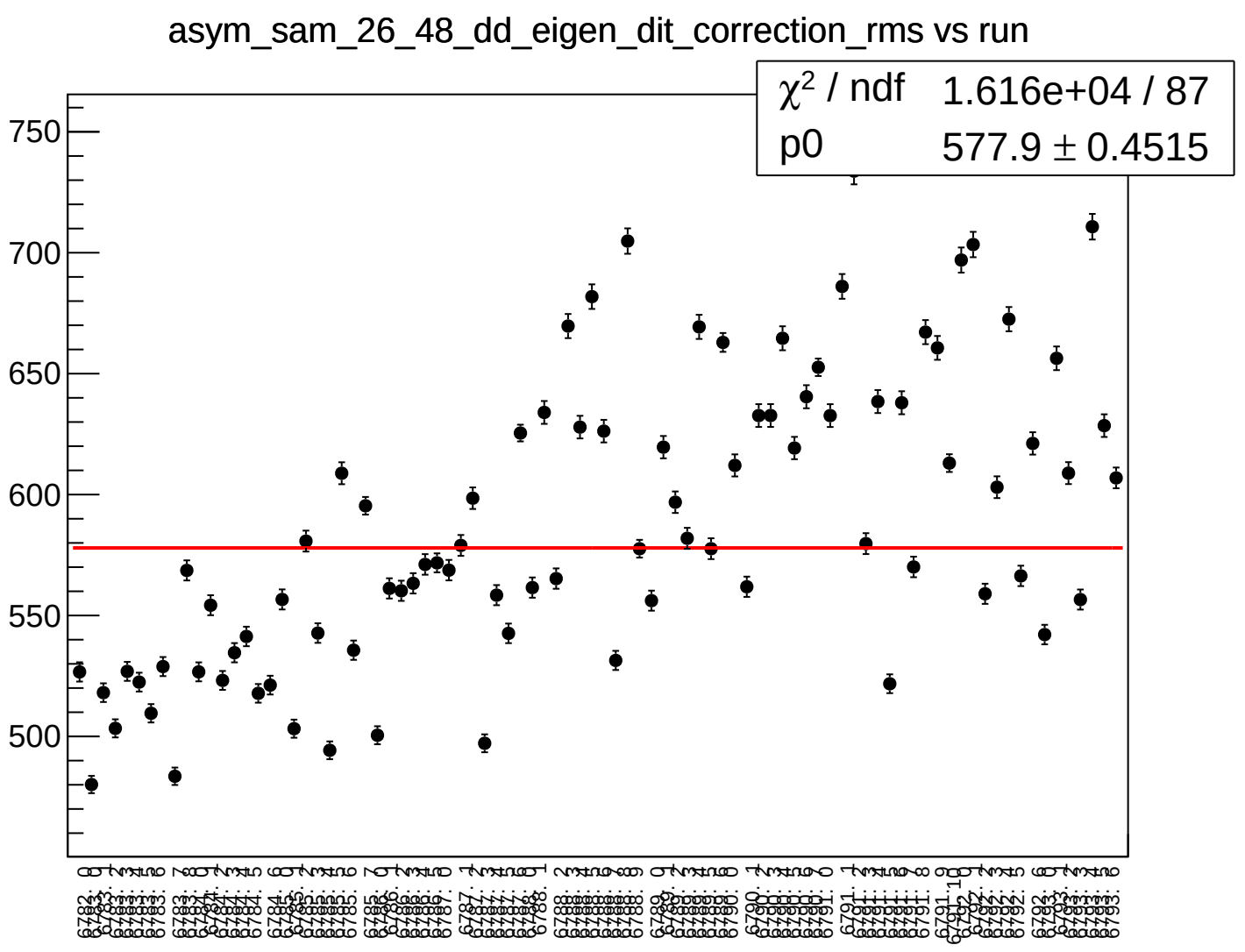

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 68.94 / 87
p0 251.3 ± 127.9
pull
Entries 88
Mean −55.64
Std Dev 0

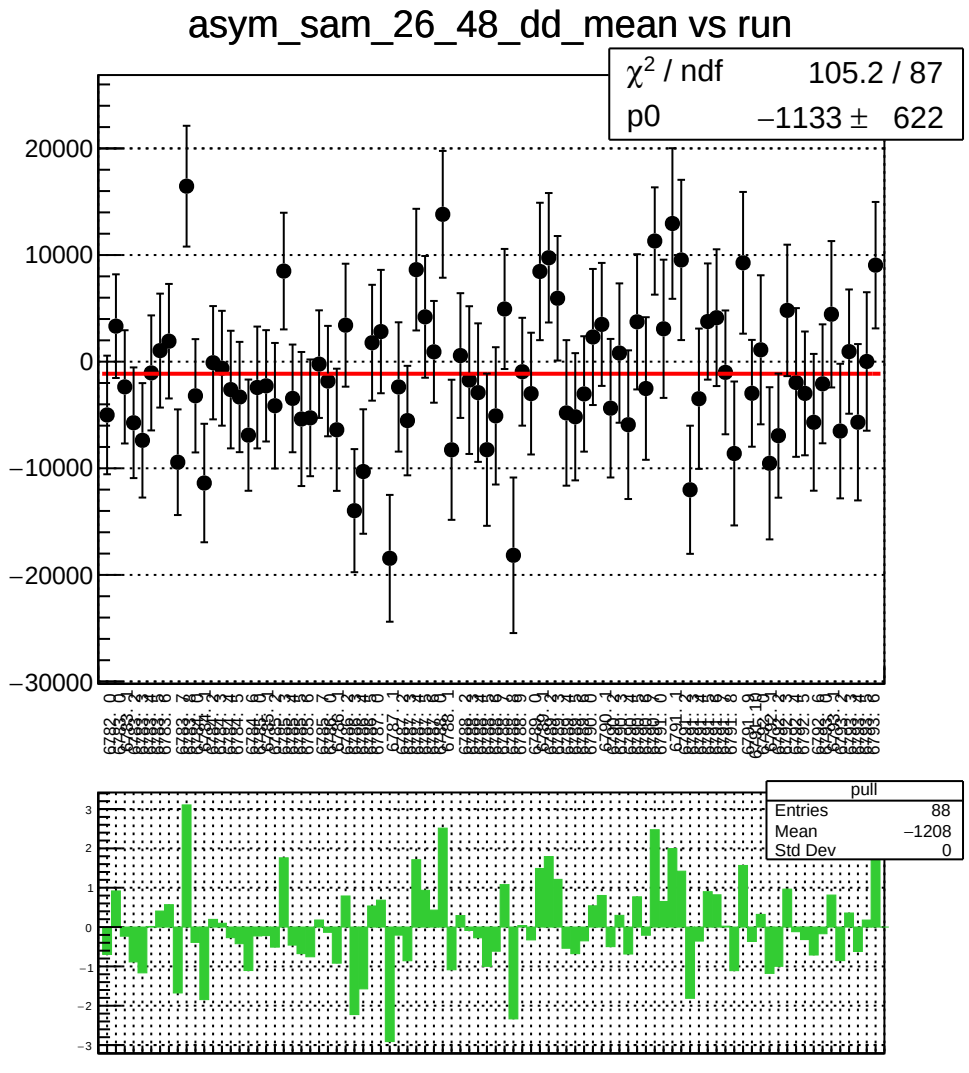

pull1D
Entries 88
Mean 0.01324
Std Dev 0.885

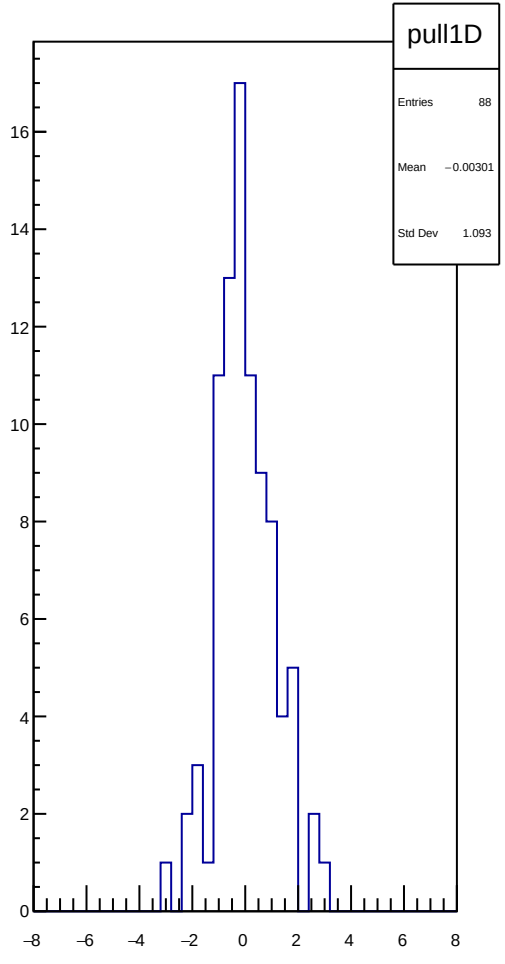

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1507 / 87
p0 116.3 ± 0.09044
130
125
120
115
110

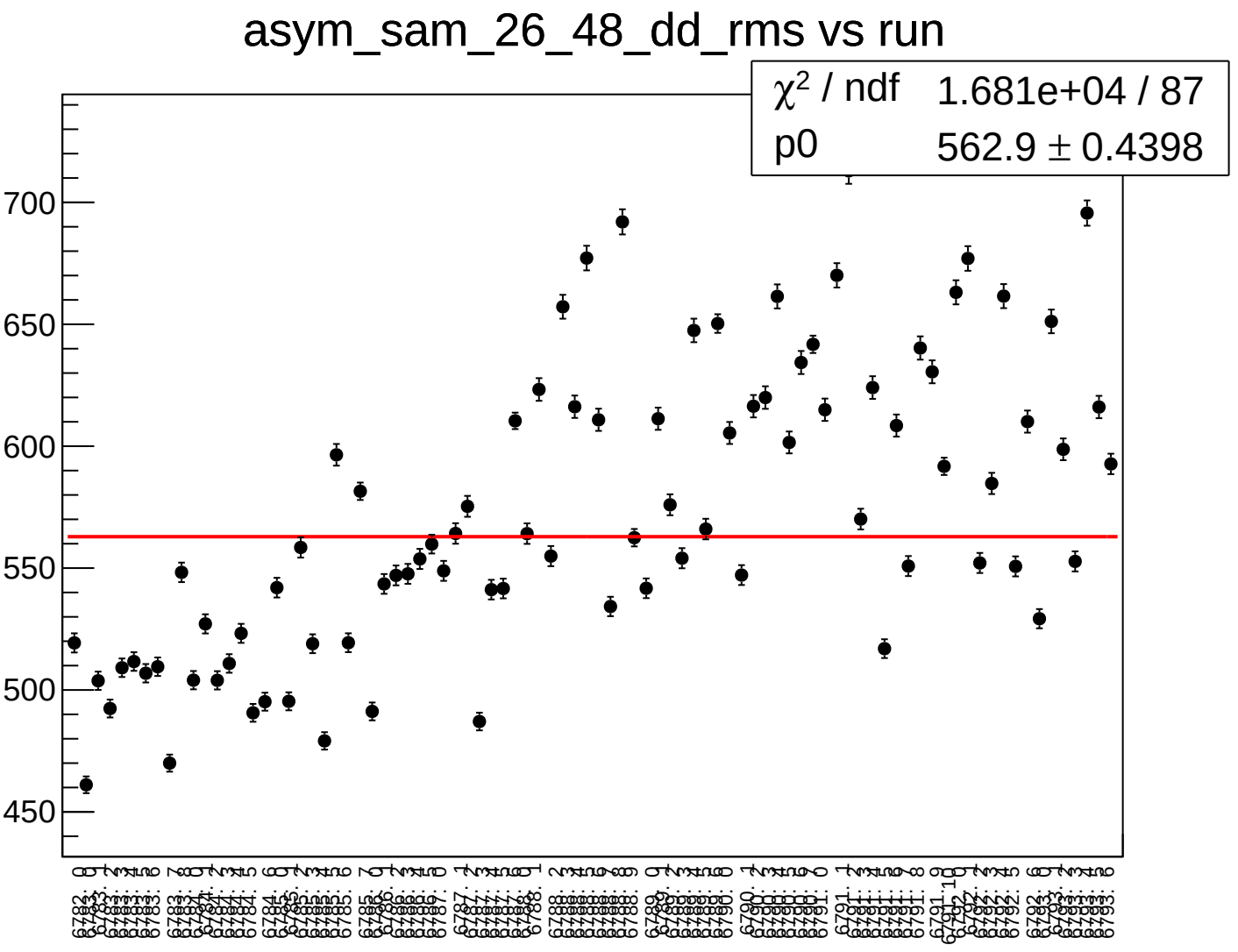

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.4 / 87
p0 1413 ± 638.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −1214
Std Dev 0
3
2
1
0
−1
−2
−3

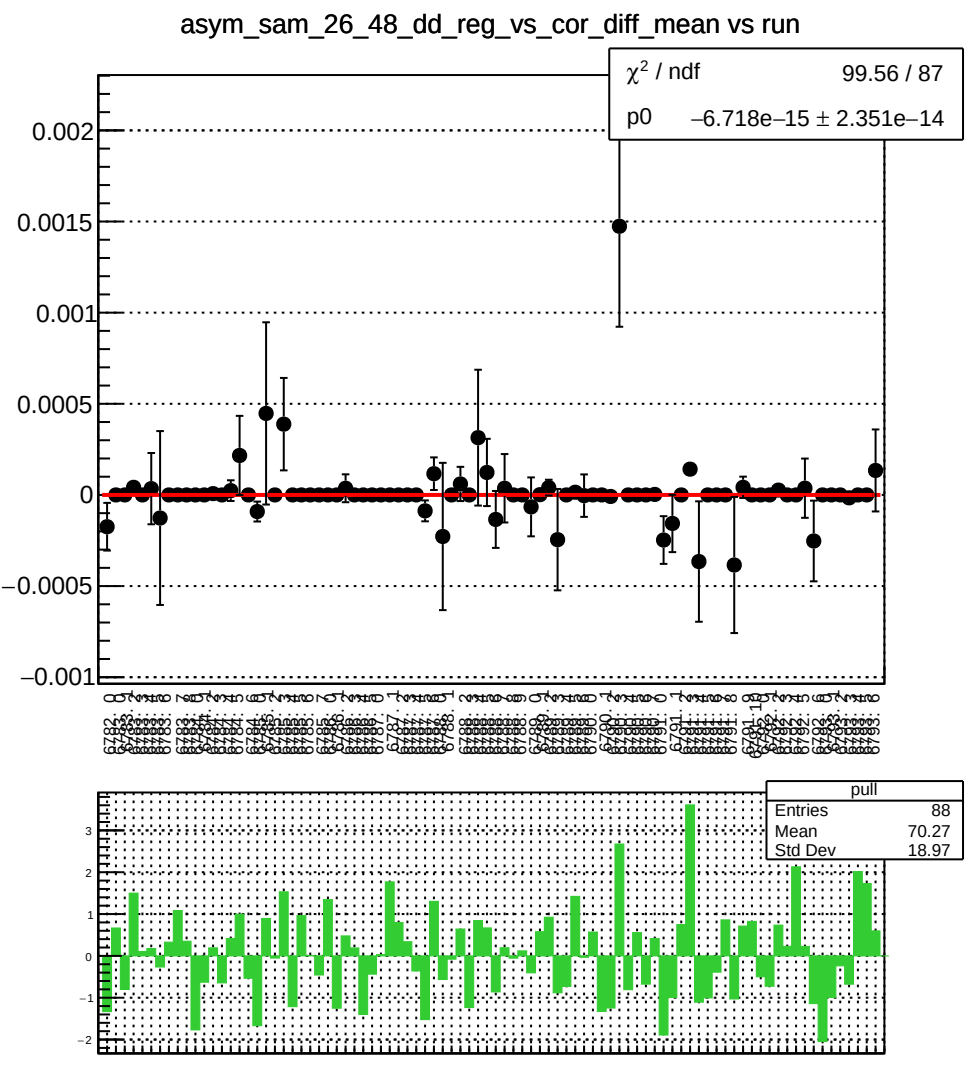

pull1D
Entries 88
Mean 0.003156
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

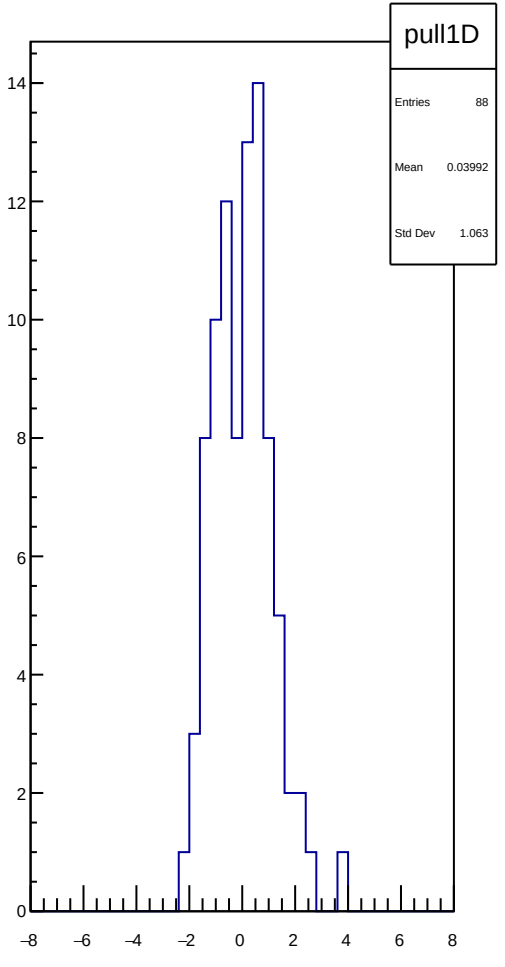

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.616e+04 / 87
p0 577.9 ± 0.4515
750
700
650
600
550
500

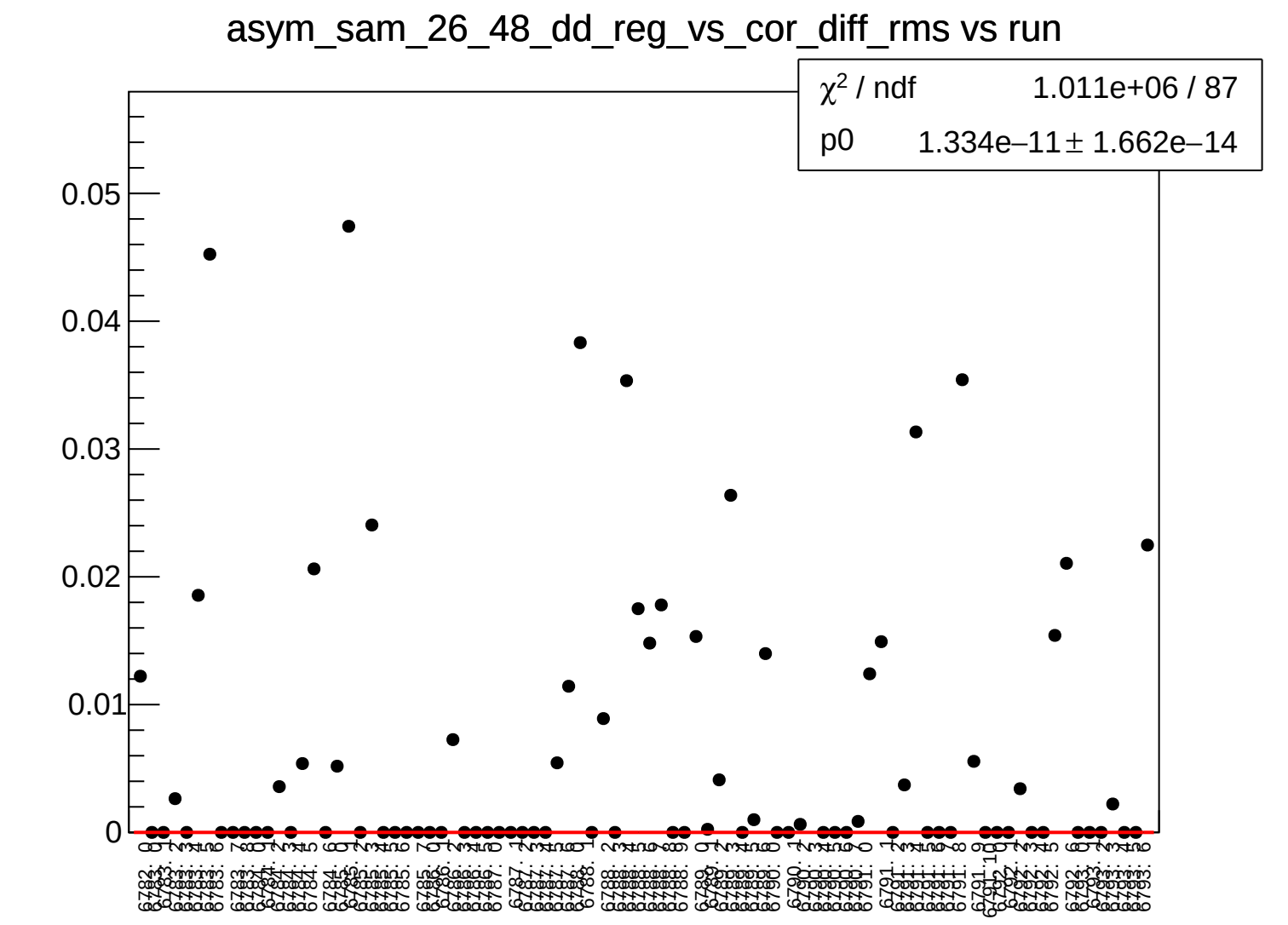

asym_sam_26_48_dd_mean vs run
χ² / ndf 105.2 / 87
p0 −1133 ± 622
pull
Entries 88
Mean −1208
Std Dev 0

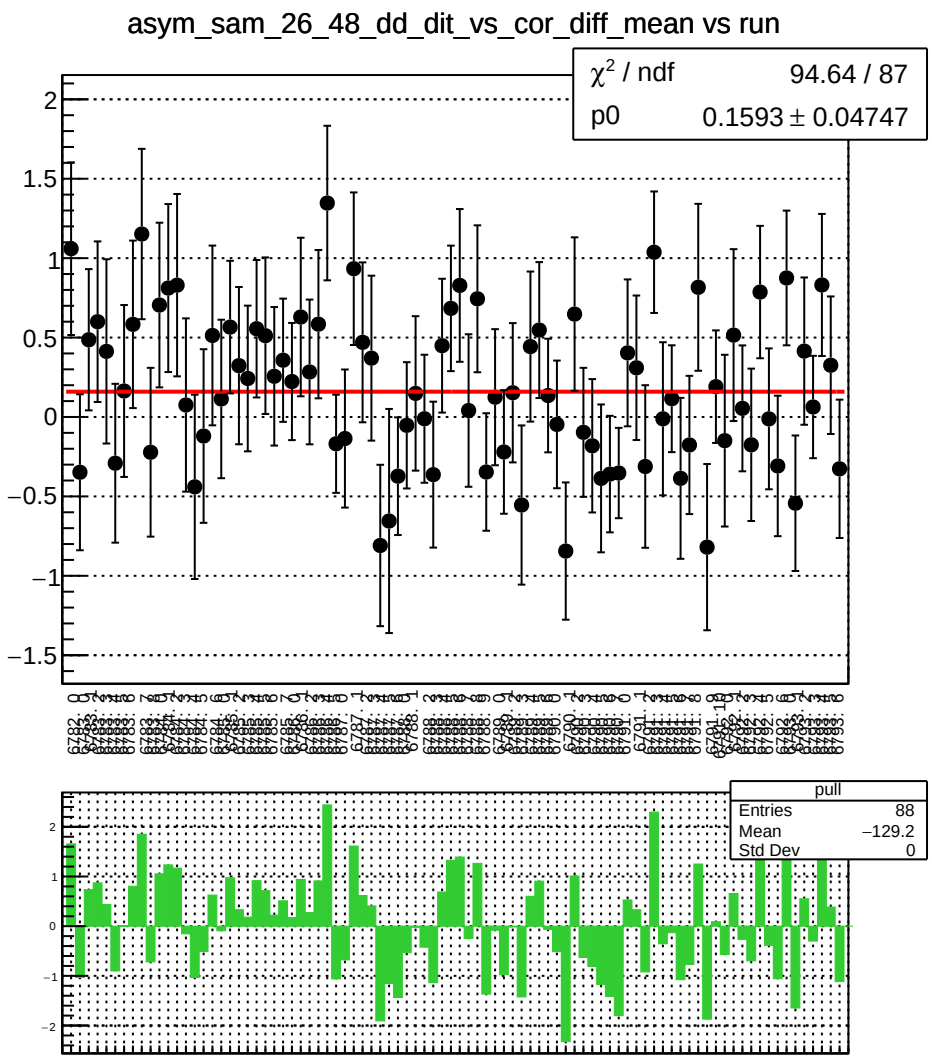

pull1D
Entries 88
Mean −0.00301
Std Dev 1.093

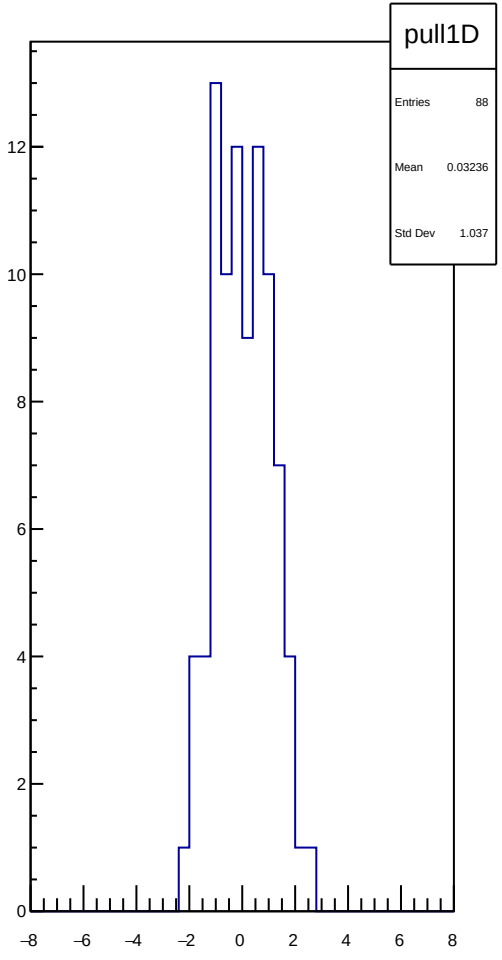

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.681e+04 / 87
p0 562.9 ± 0.4398
700
650
600
550
500
450

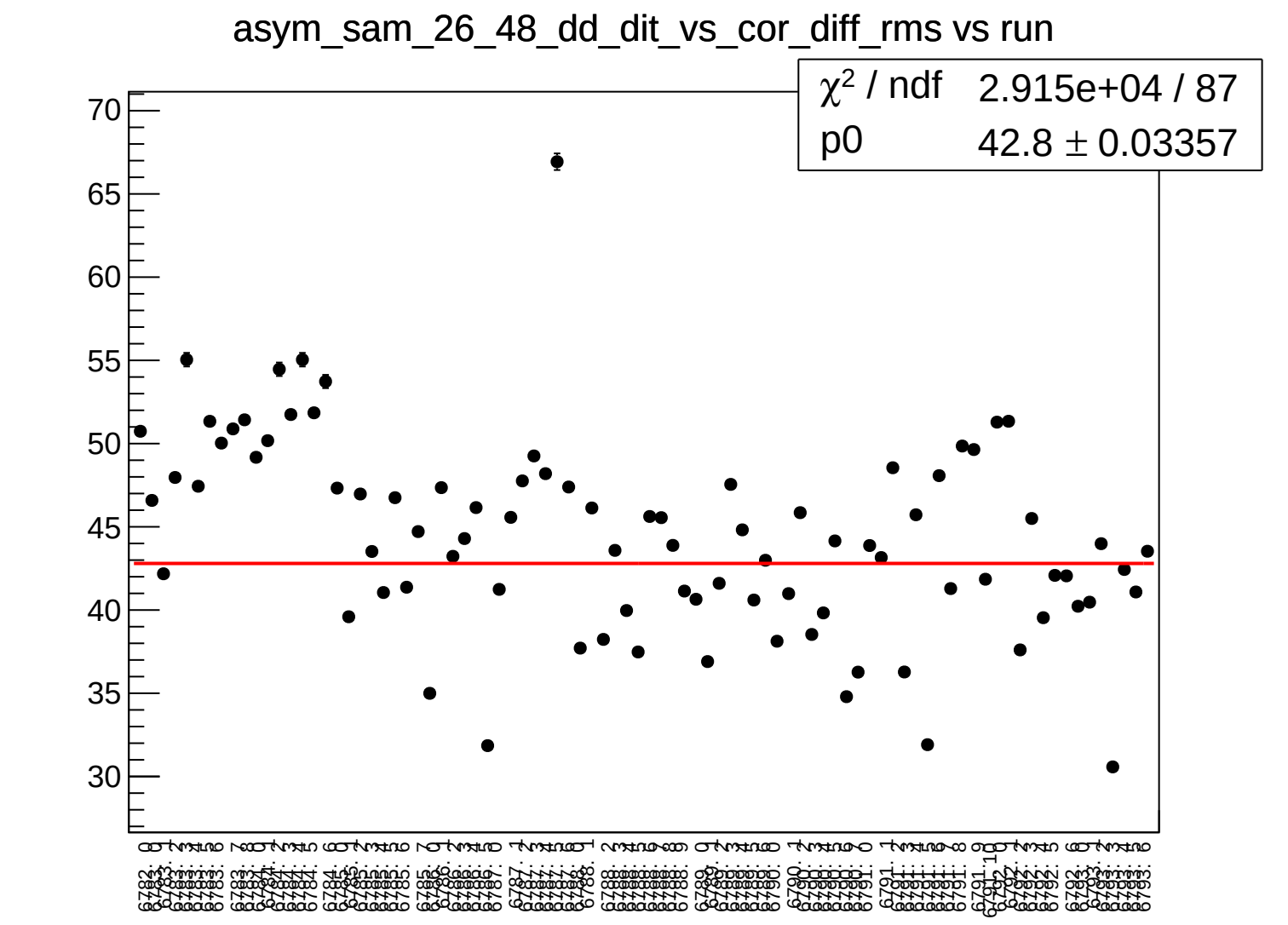

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.56 / 87
p0 −6.718e−15 ± 2.351e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 70.27
Std Dev 18.97
3
2
1
0
−1
−2

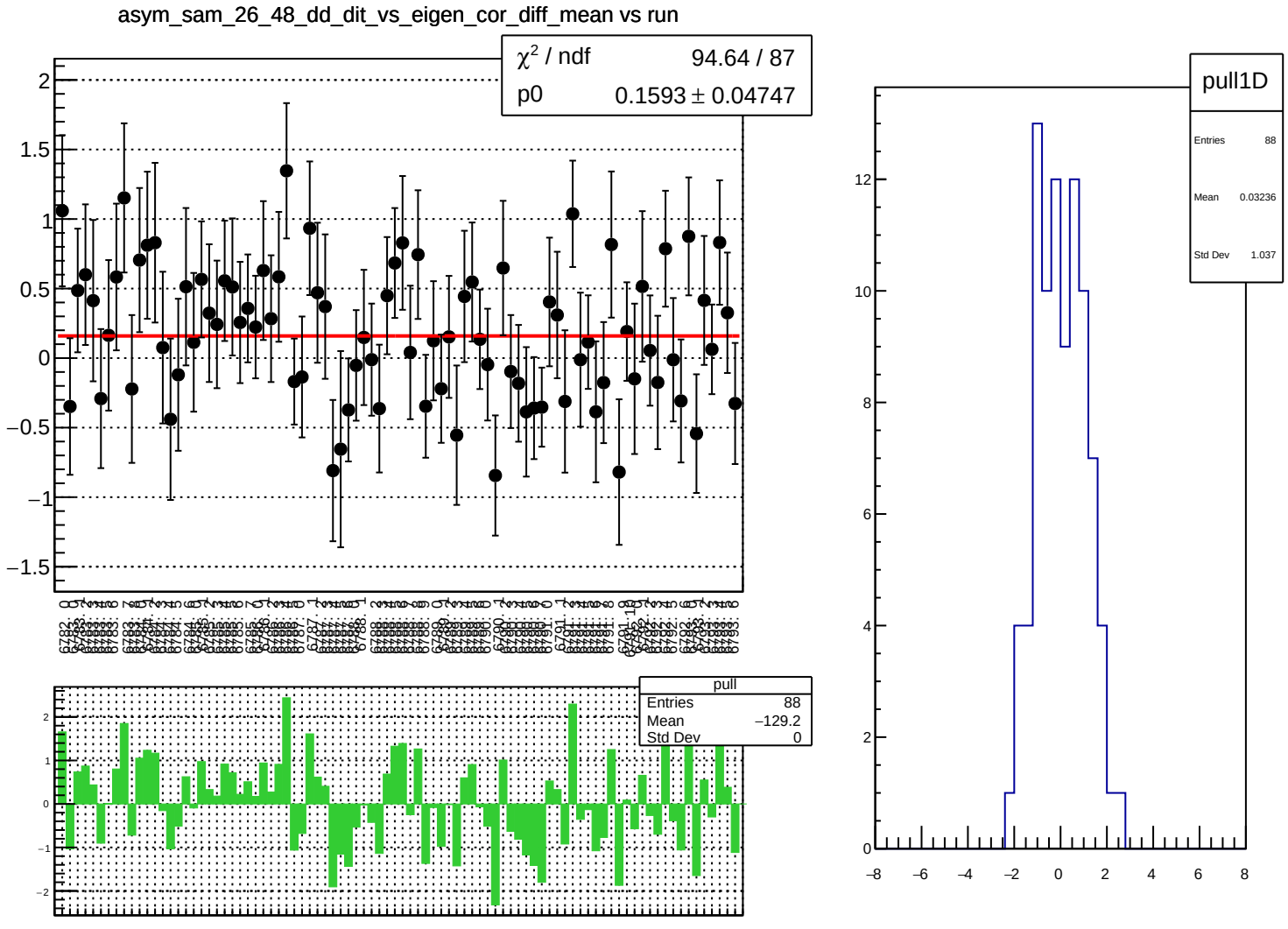

pull1D
Entries 88
Mean 0.03992
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

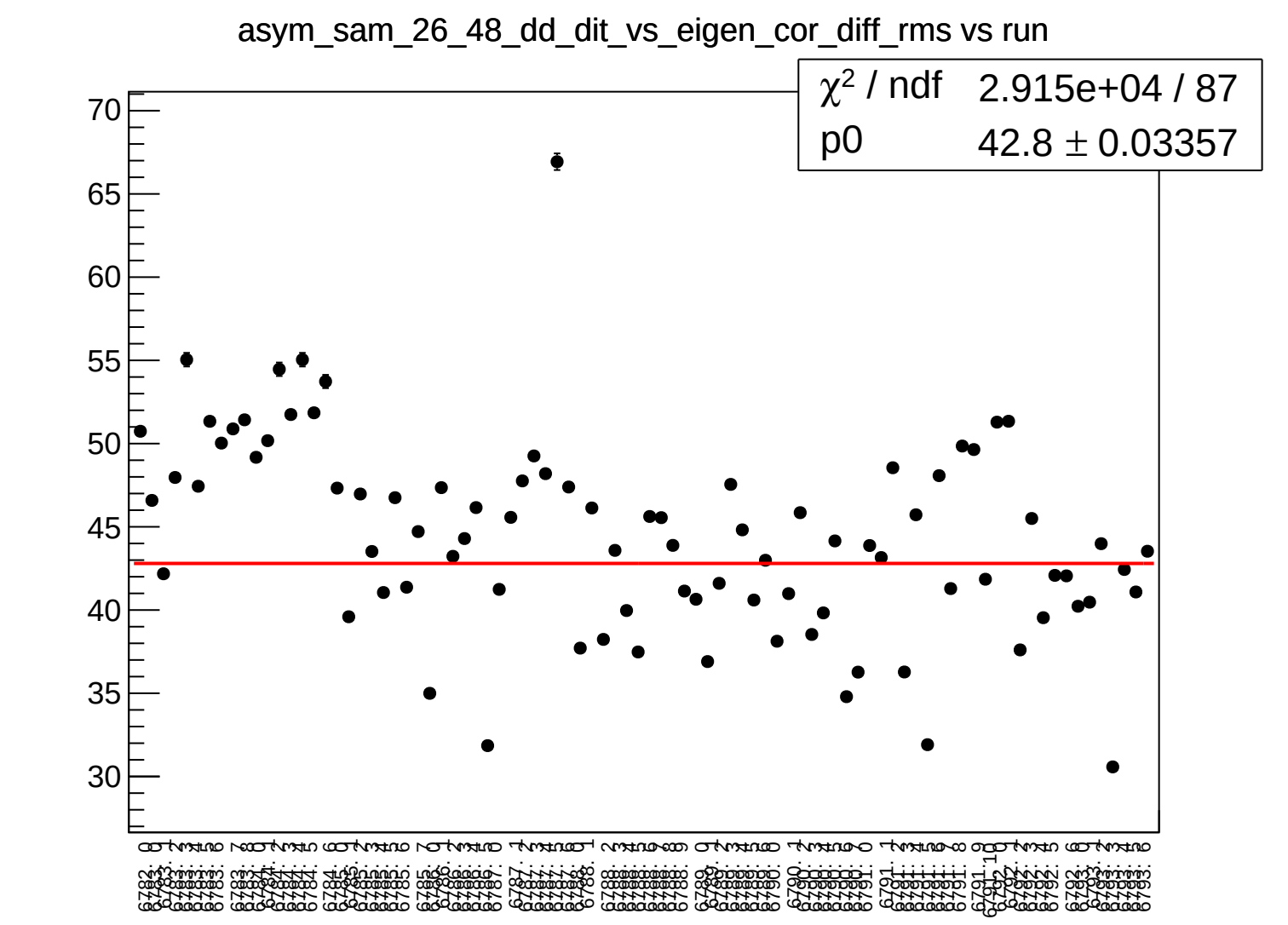

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 87
p0 1.334e−11 ± 1.662e−14
0.05
0.04
0.03
0.02
0.01
0

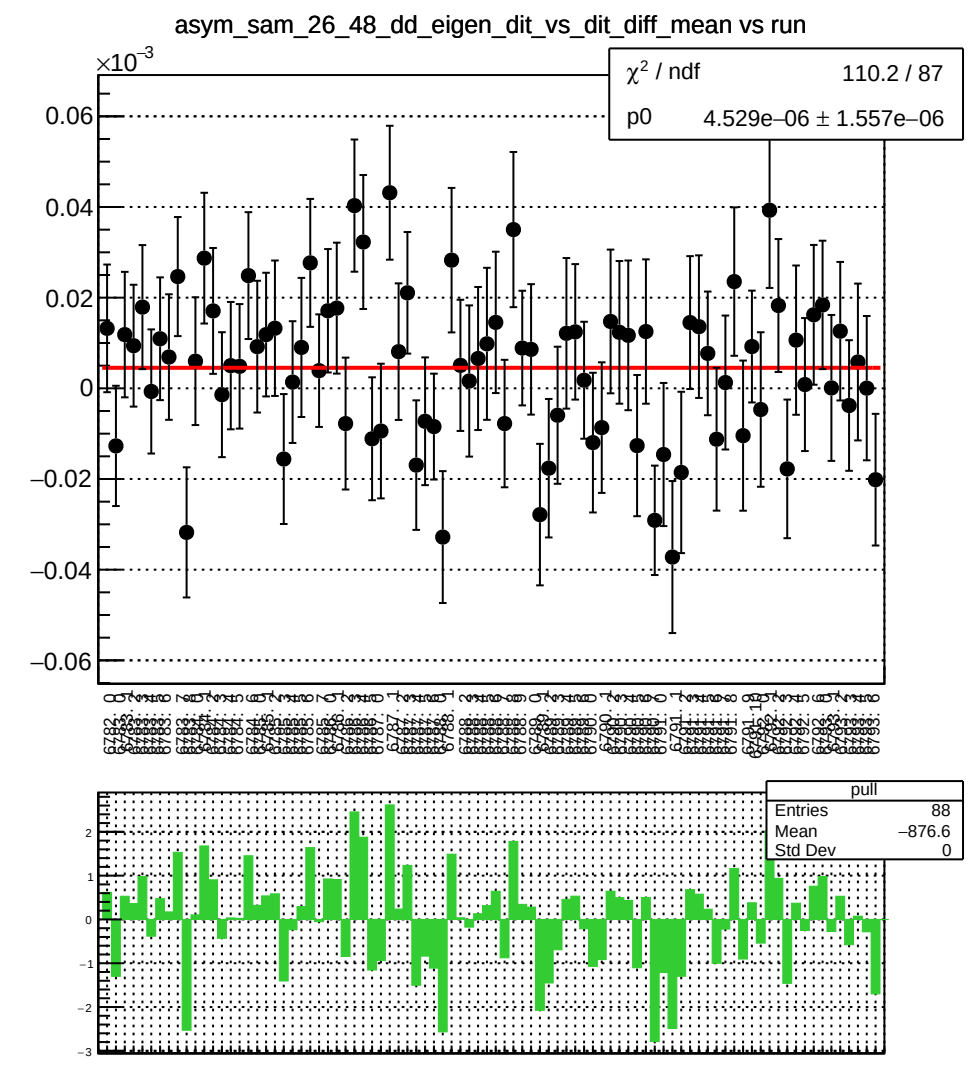

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.64 / 87
p0 0.1593 ± 0.04747
pull
Entries 88
Mean −129.2
Std Dev 0

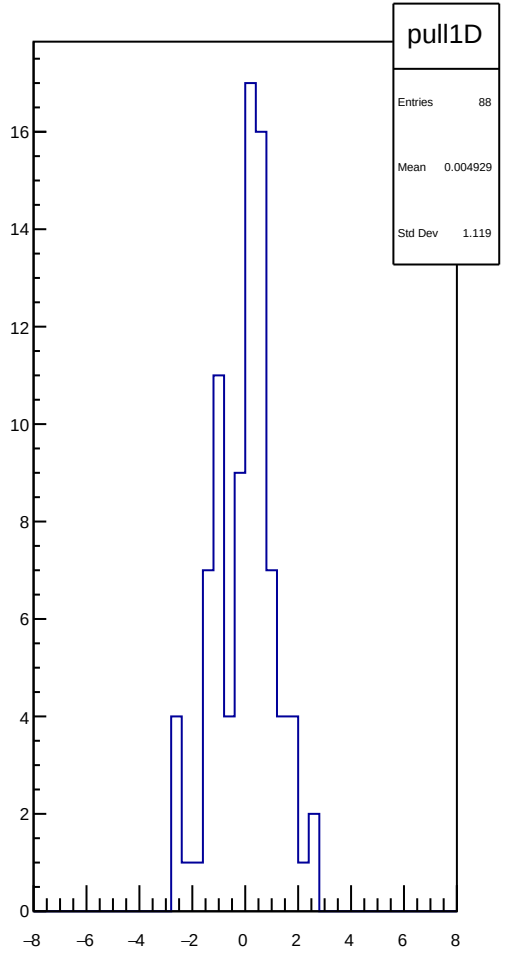

pull1D
Entries 88
Mean 0.03236
Std Dev 1.037

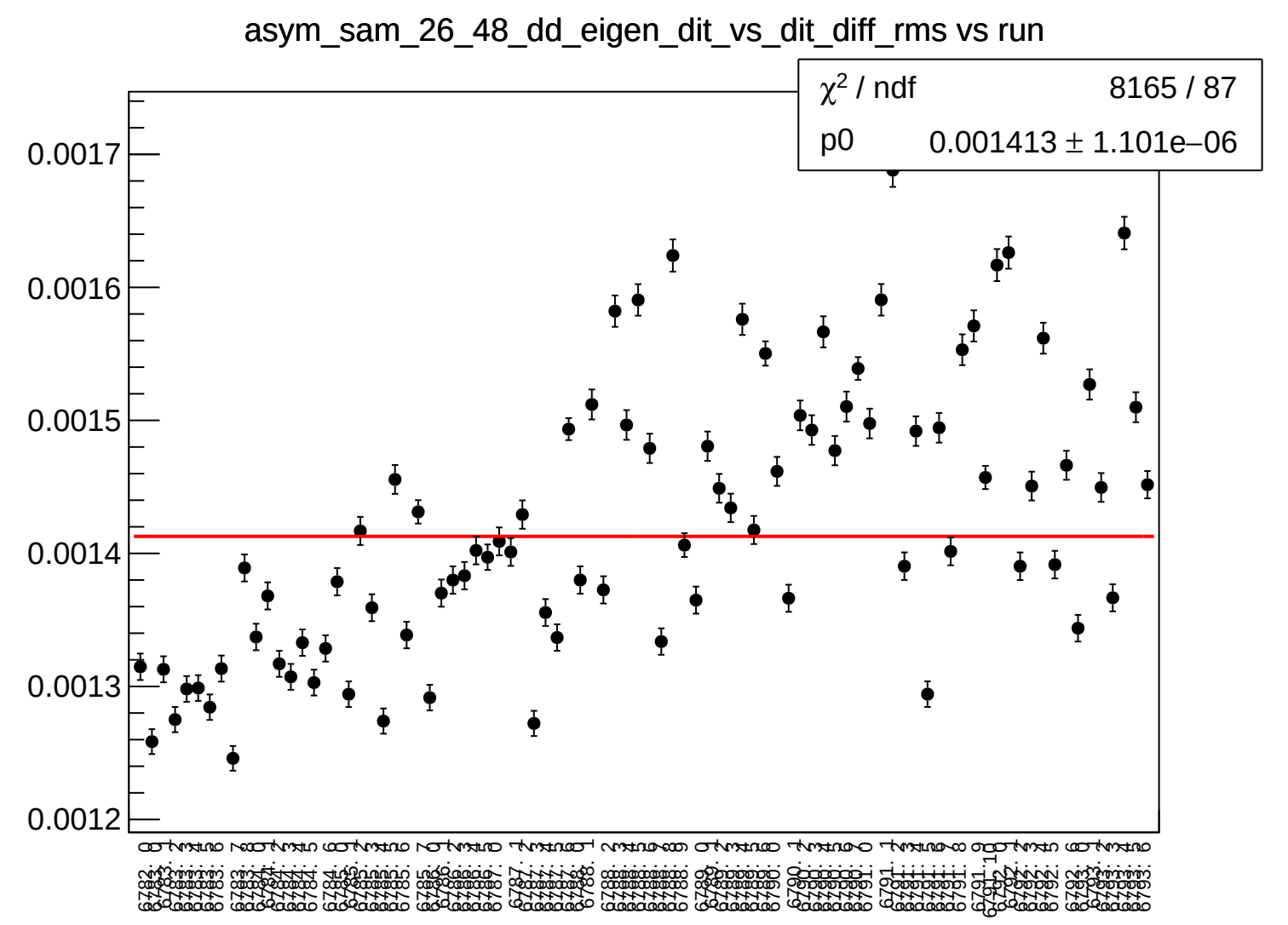

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 87
p0 42.8 ± 0.03357
70
65
60
55
50
45
40
35
30

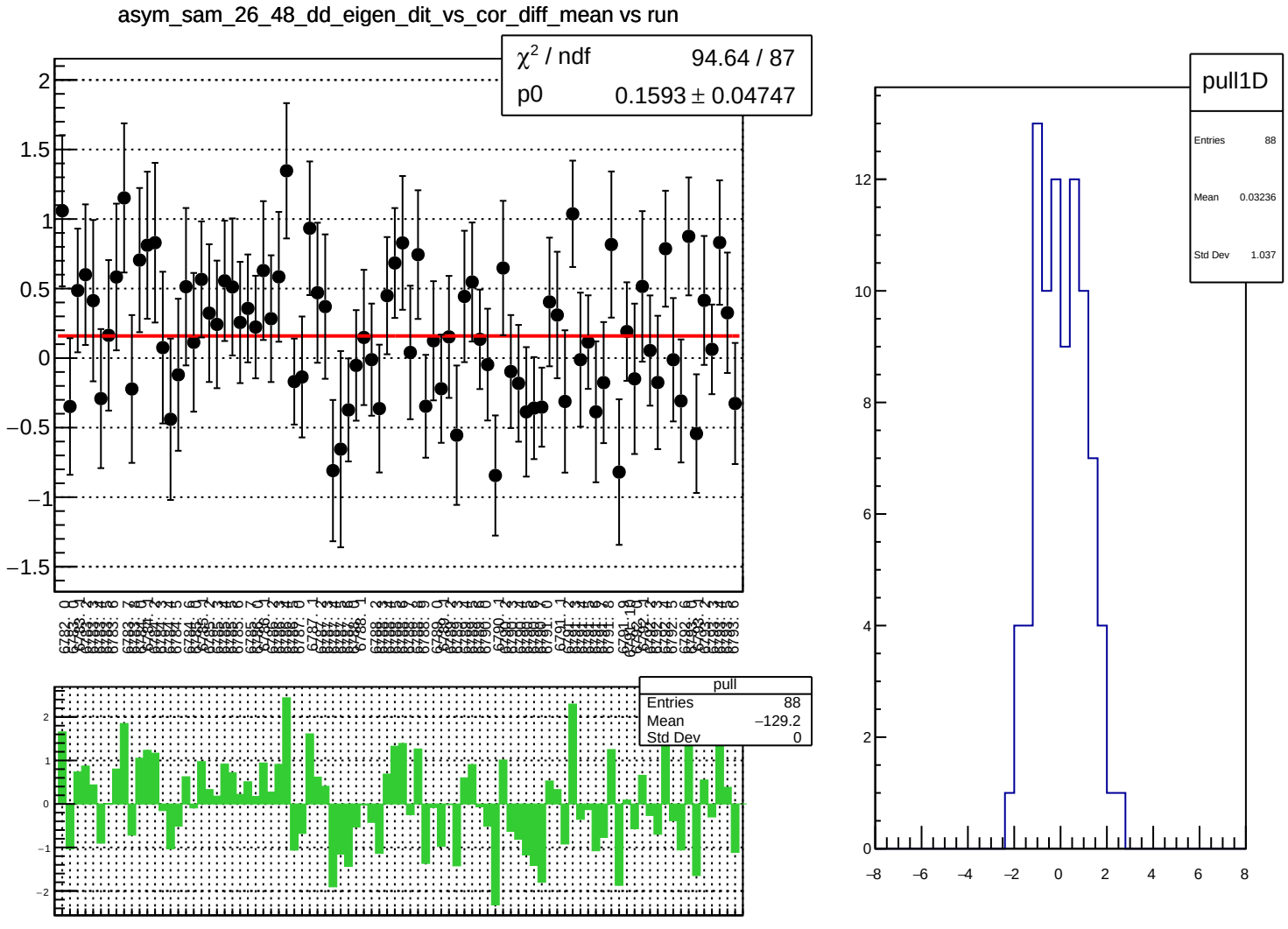

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.64 / 87
p0 0.1593 ± 0.04747
pull
Entries 88
Mean −129.2
Std Dev 0
pull1D
Entries 88
Mean 0.03236
Std Dev 1.037

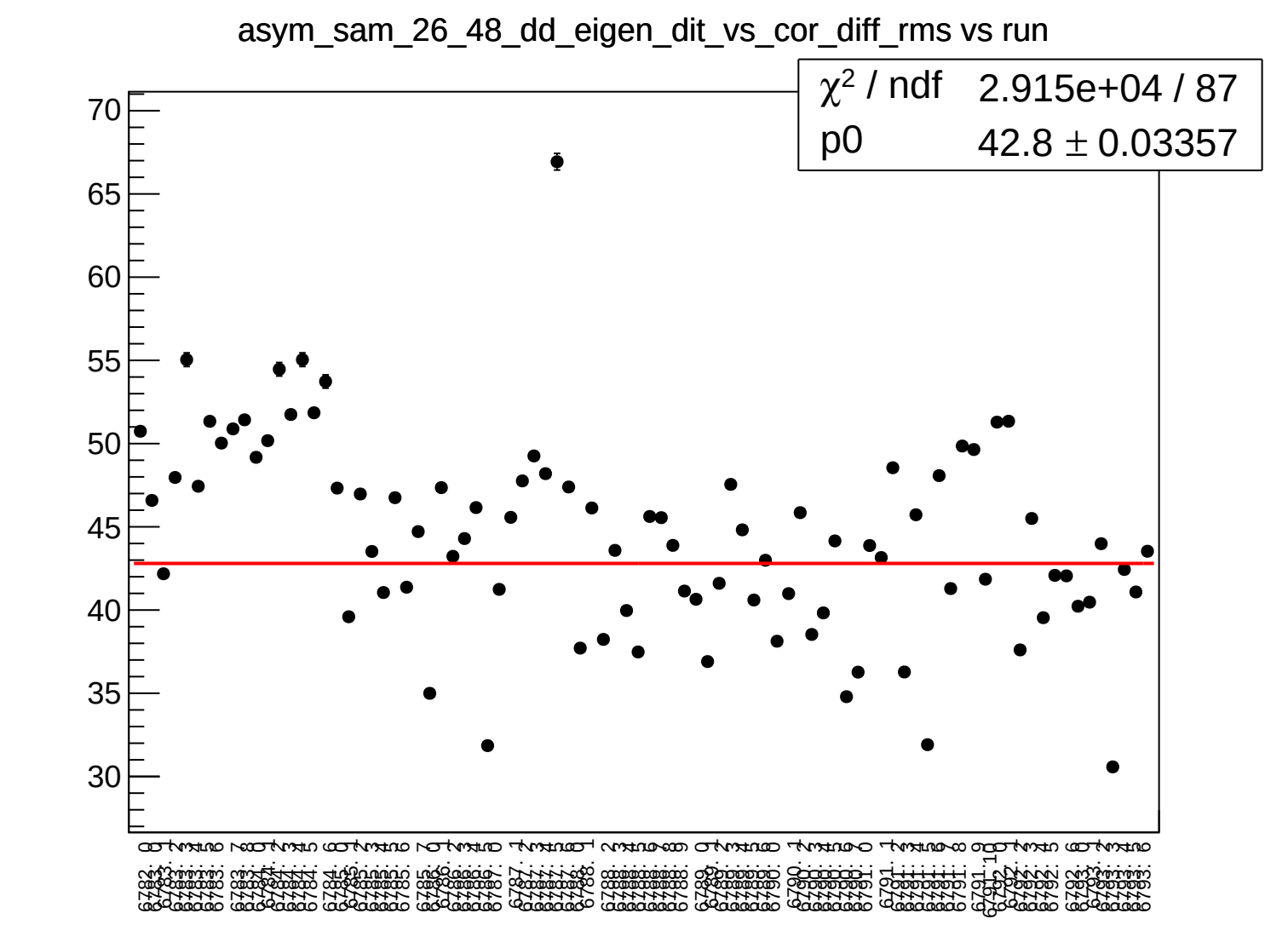

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 87
p0 42.8 ± 0.03357
70
65
60
55
50
45
40
35
30

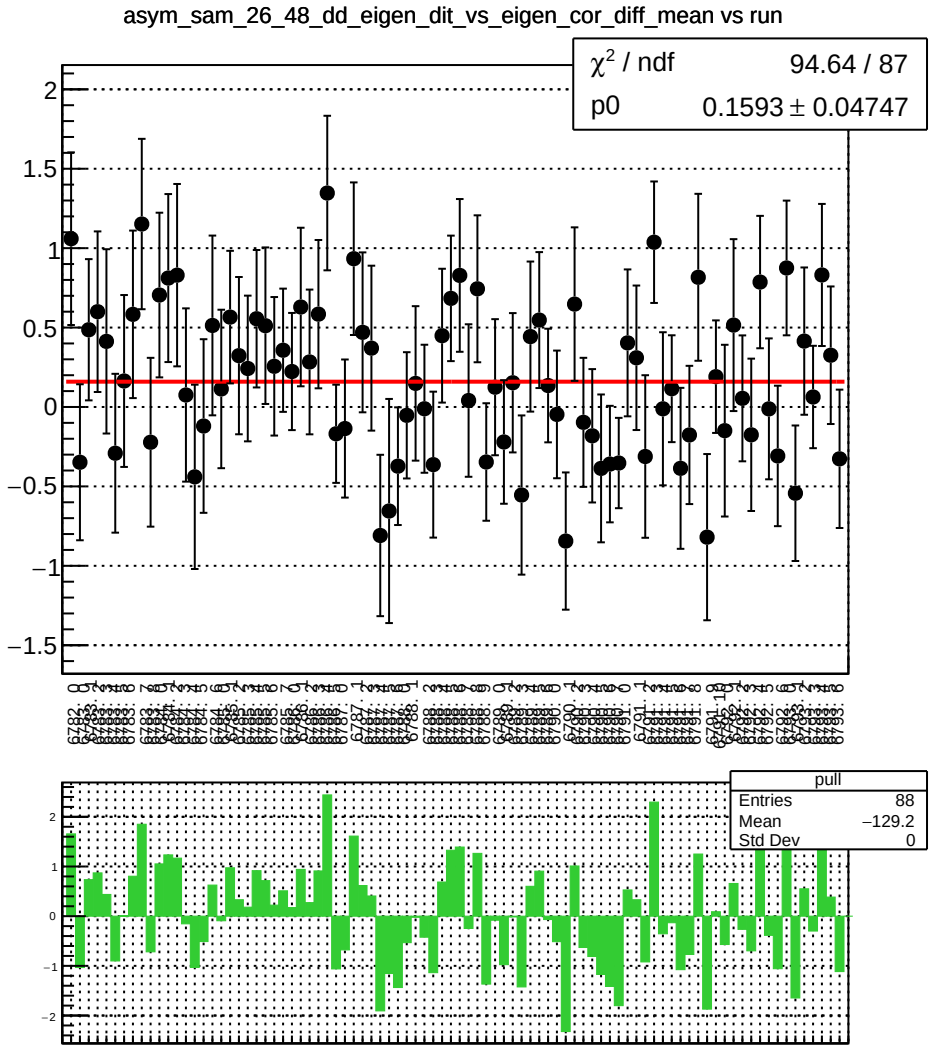

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.2 / 87
p0 4.529e−06 ± 1.557e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −876.6
Std Dev 0
2
1
0
−1
−2
−3

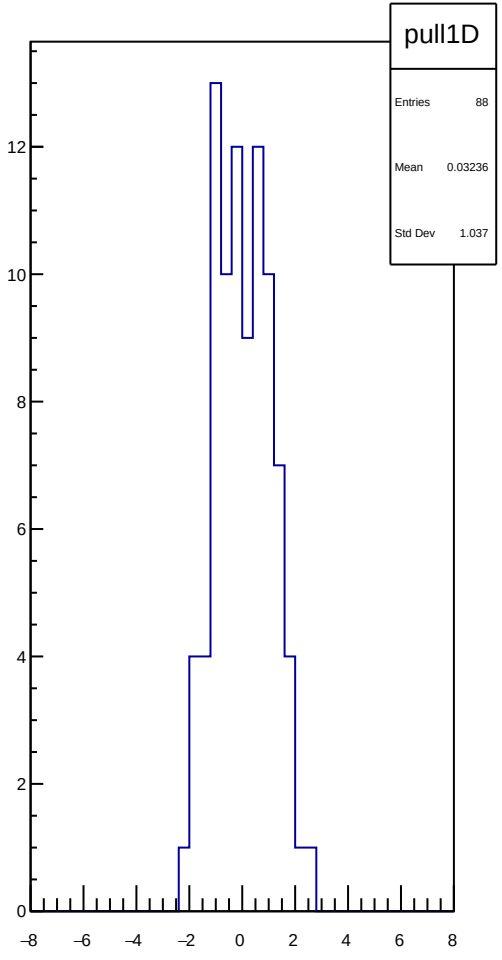

pull1D
Entries 88
Mean 0.004929
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

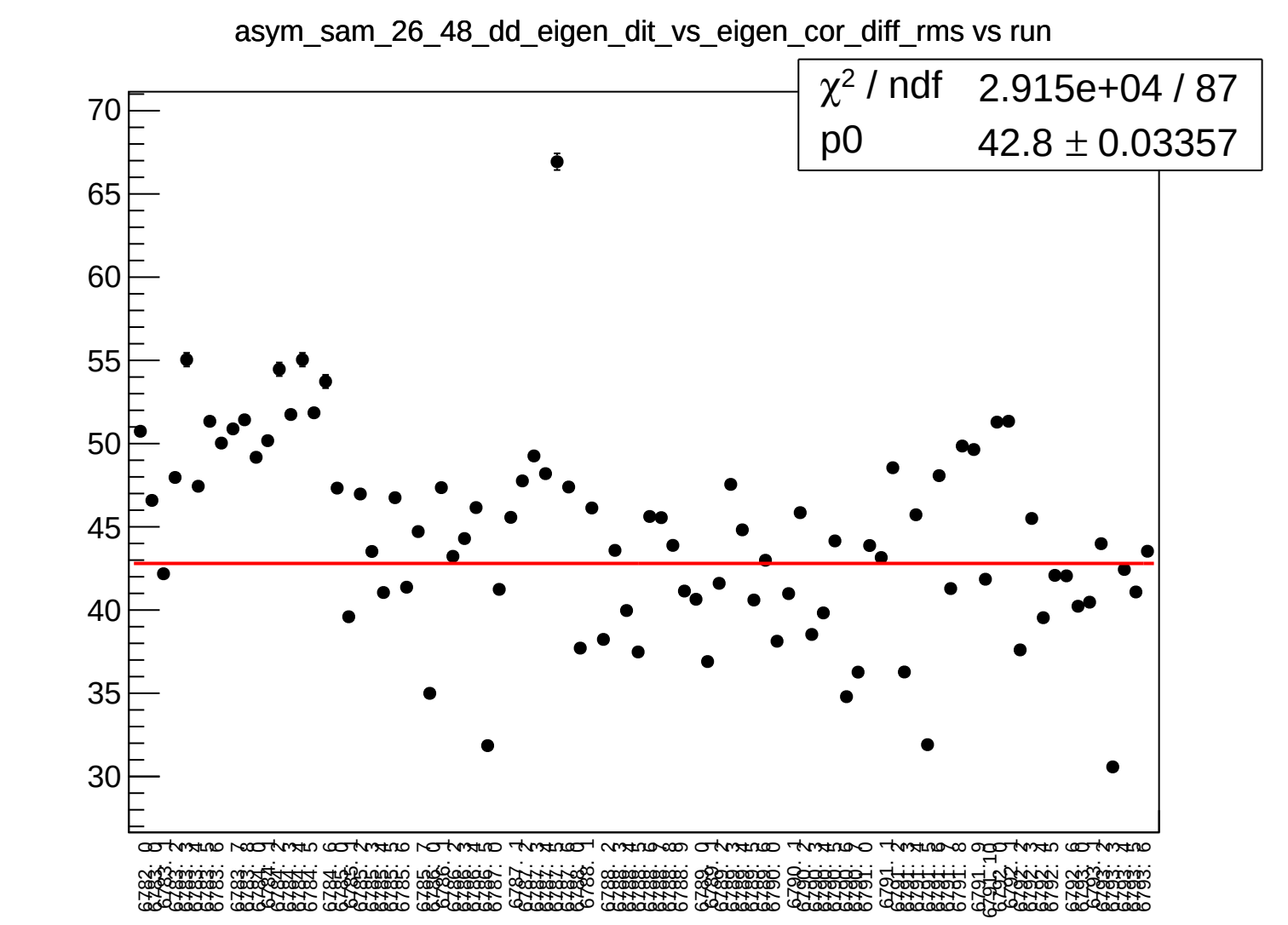

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8165 / 87
p0 0.001413 ± 1.101e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

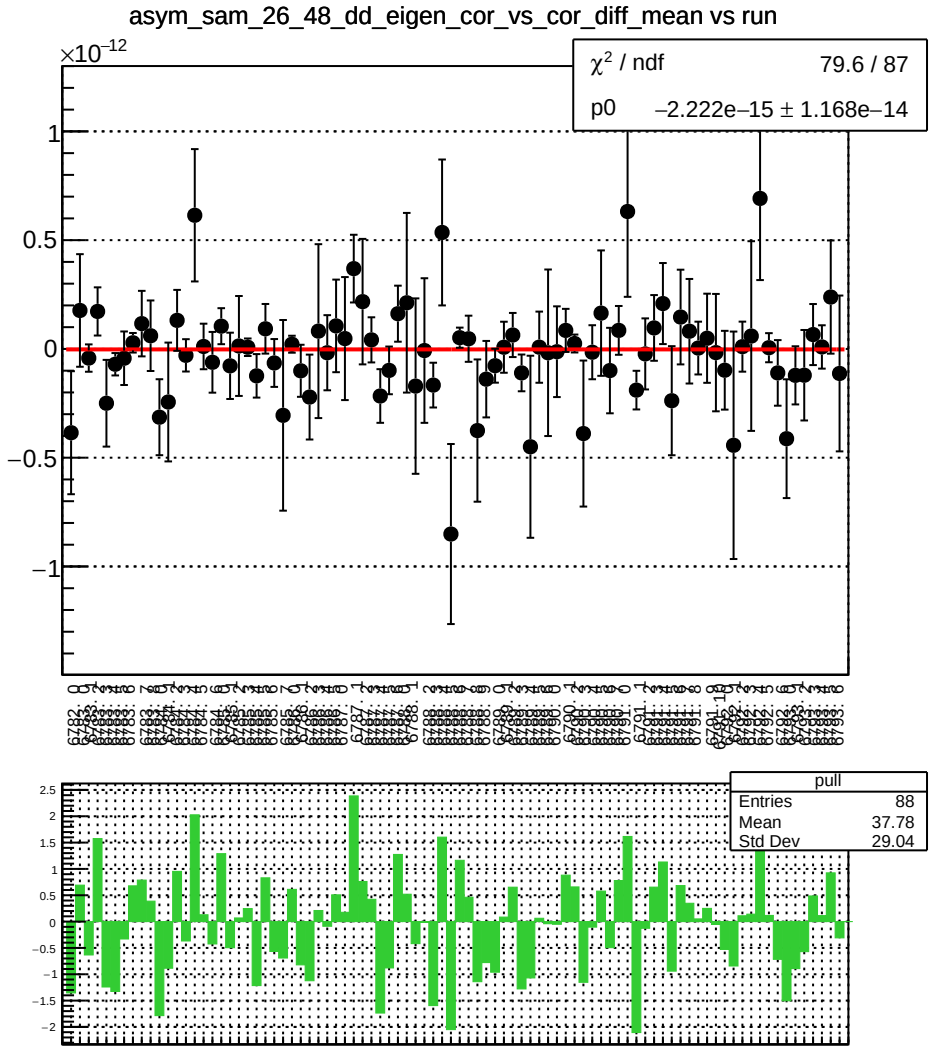

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.64 / 87
p0 0.1593 ± 0.04747
pull
Entries 88
Mean −129.2
Std Dev 0
pull1D
Entries 88
Mean 0.03236
Std Dev 1.037

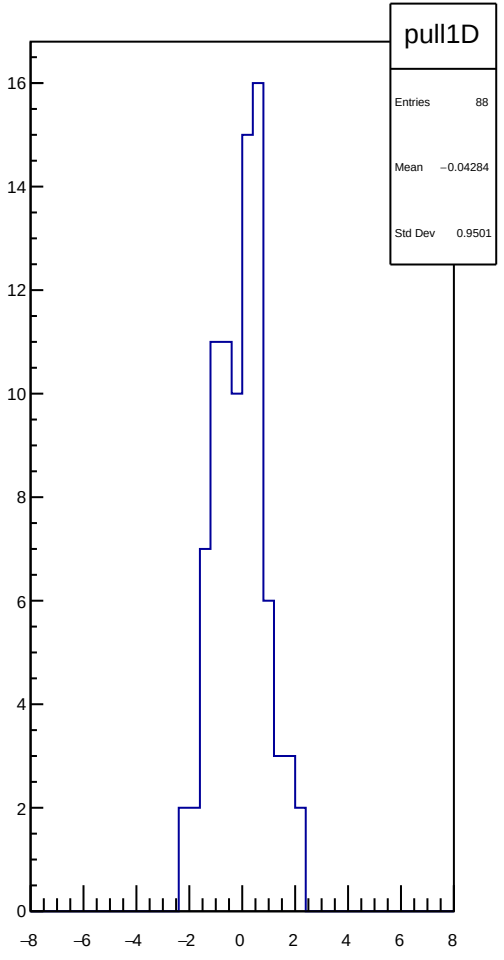

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 87
p0 42.8 ± 0.03357
70
65
60
55
50
45
40
35
30

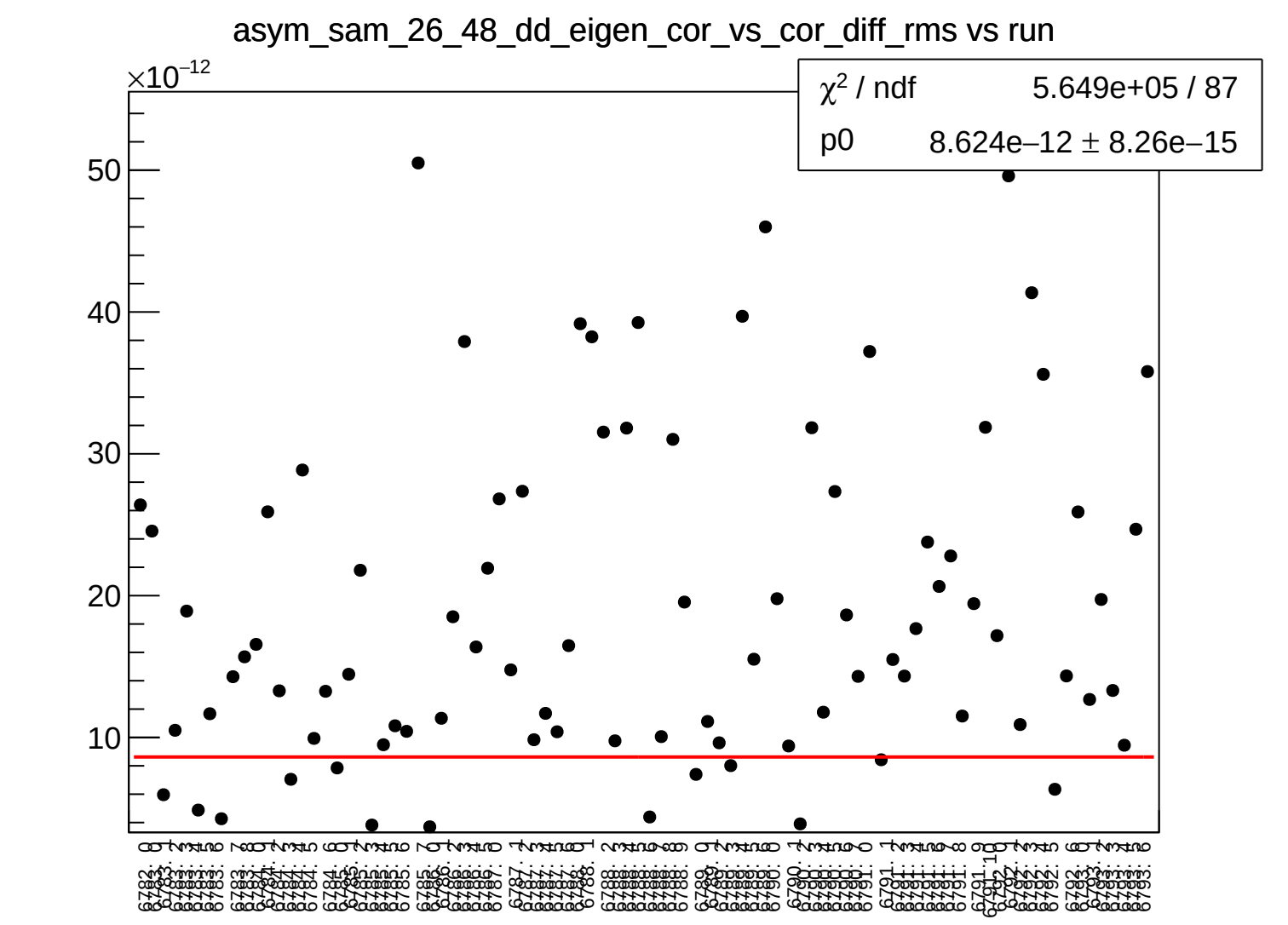

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.64 / 87
p0 0.1593 ± 0.04747
pull
Entries 88
Mean −129.2
Std Dev 0

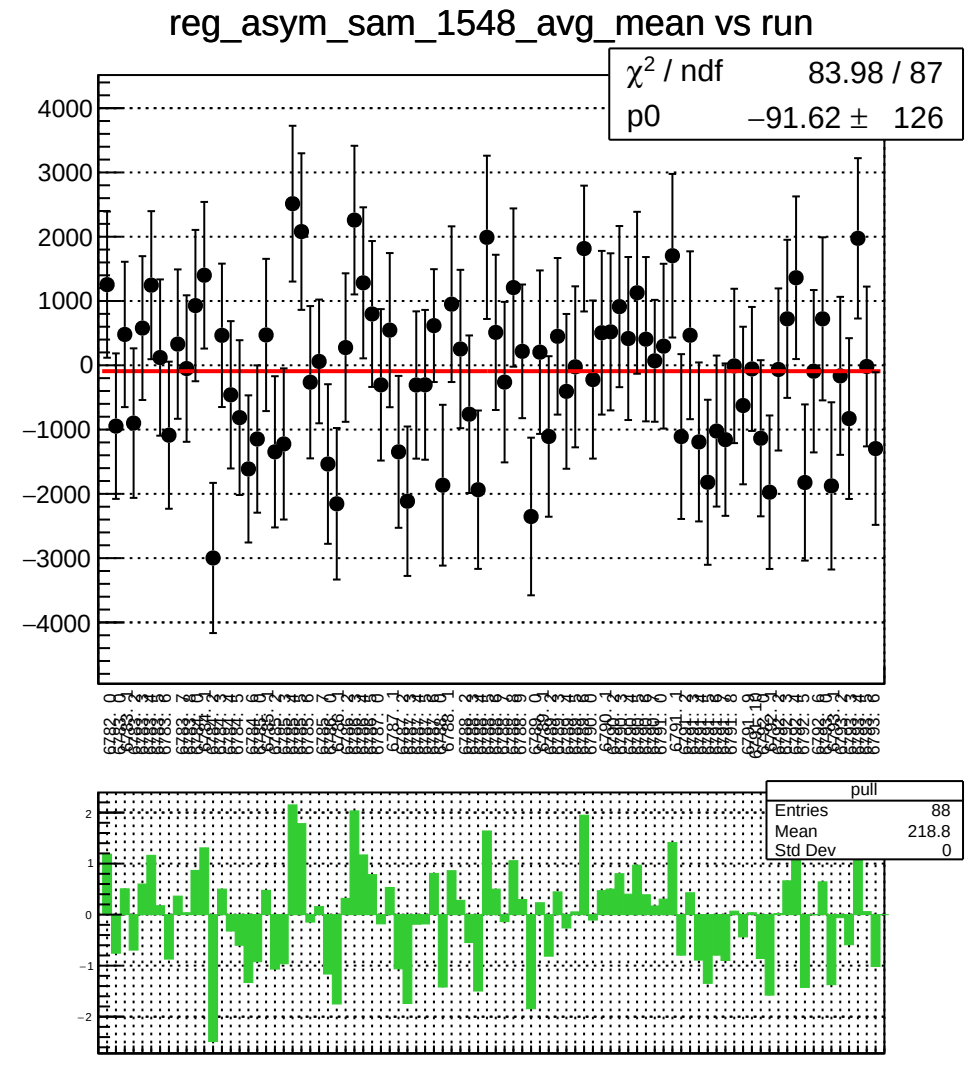

pull1D
Entries 88
Mean 0.03236
Std Dev 1.037

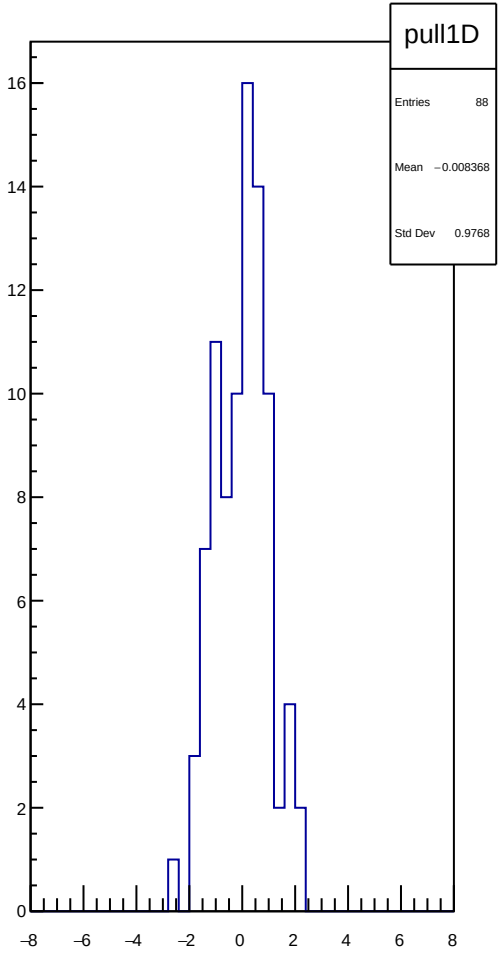

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 87
p0 42.8 ± 0.03357
70
65
60
55
50
45
40
35
30

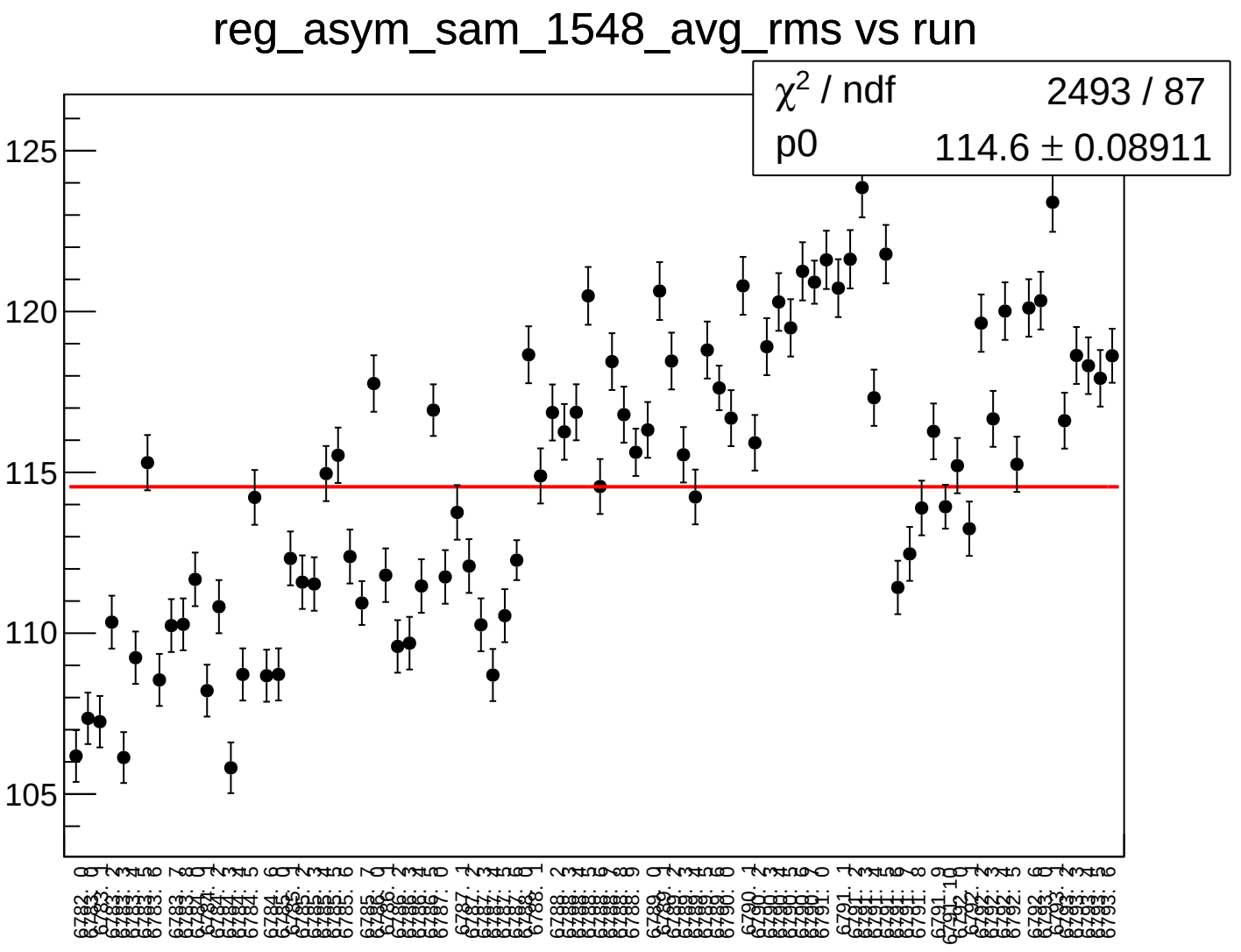

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.6 / 87
p0 −2.222e−15 ± 1.168e−14
pull
Entries 88
Mean 37.78
Std Dev 29.04

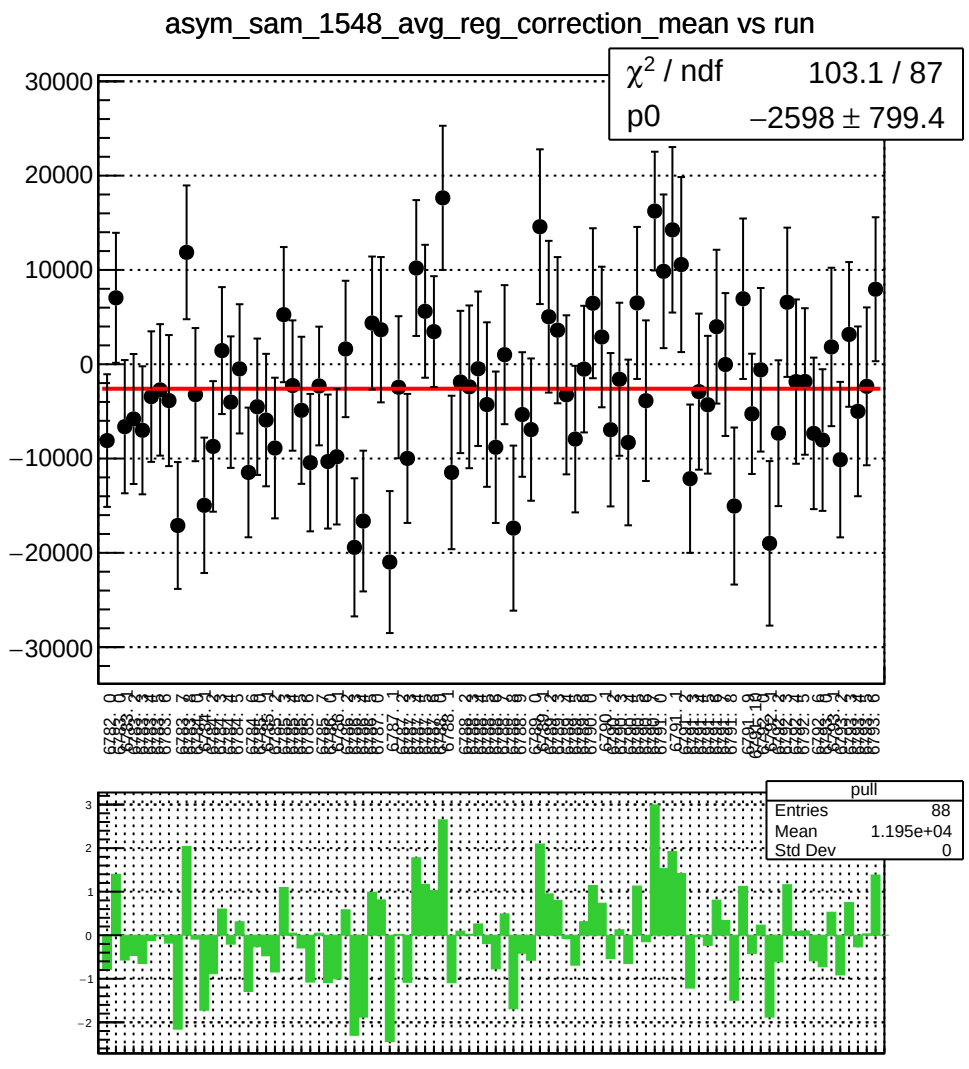

pull1D
Entries 88
Mean −0.04284
Std Dev 0.9501

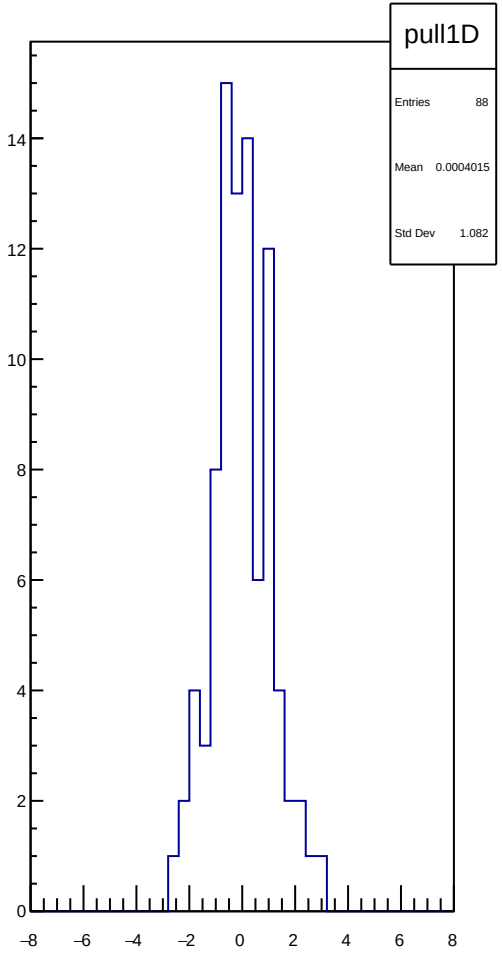

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.649e+05 / 87
p0 8.624e−12 ± 8.26e−15
50
40
30
20
10

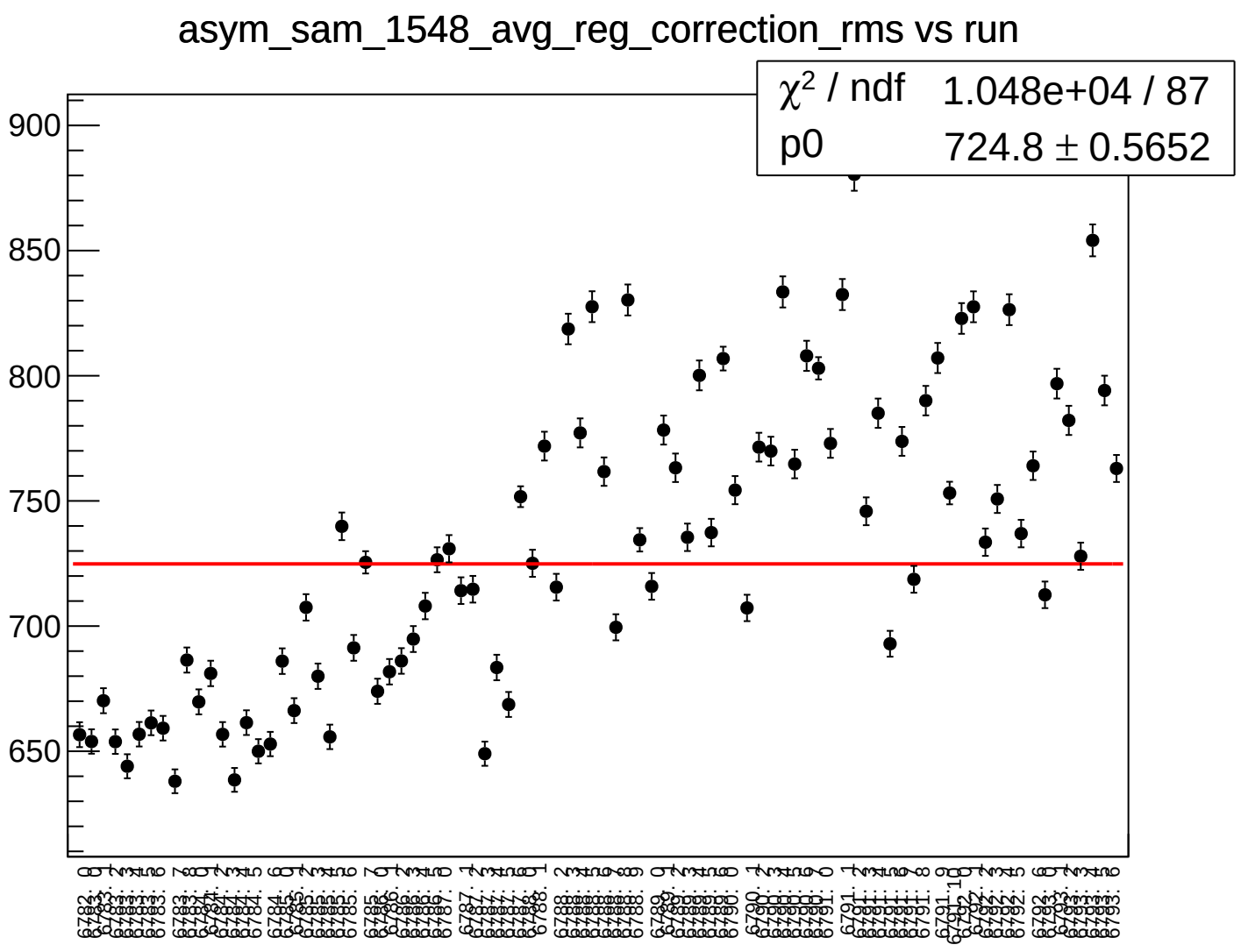

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 83.98 / 87
p0 −91.62 ± 126
pull
Entries 88
Mean 218.8
Std Dev 0

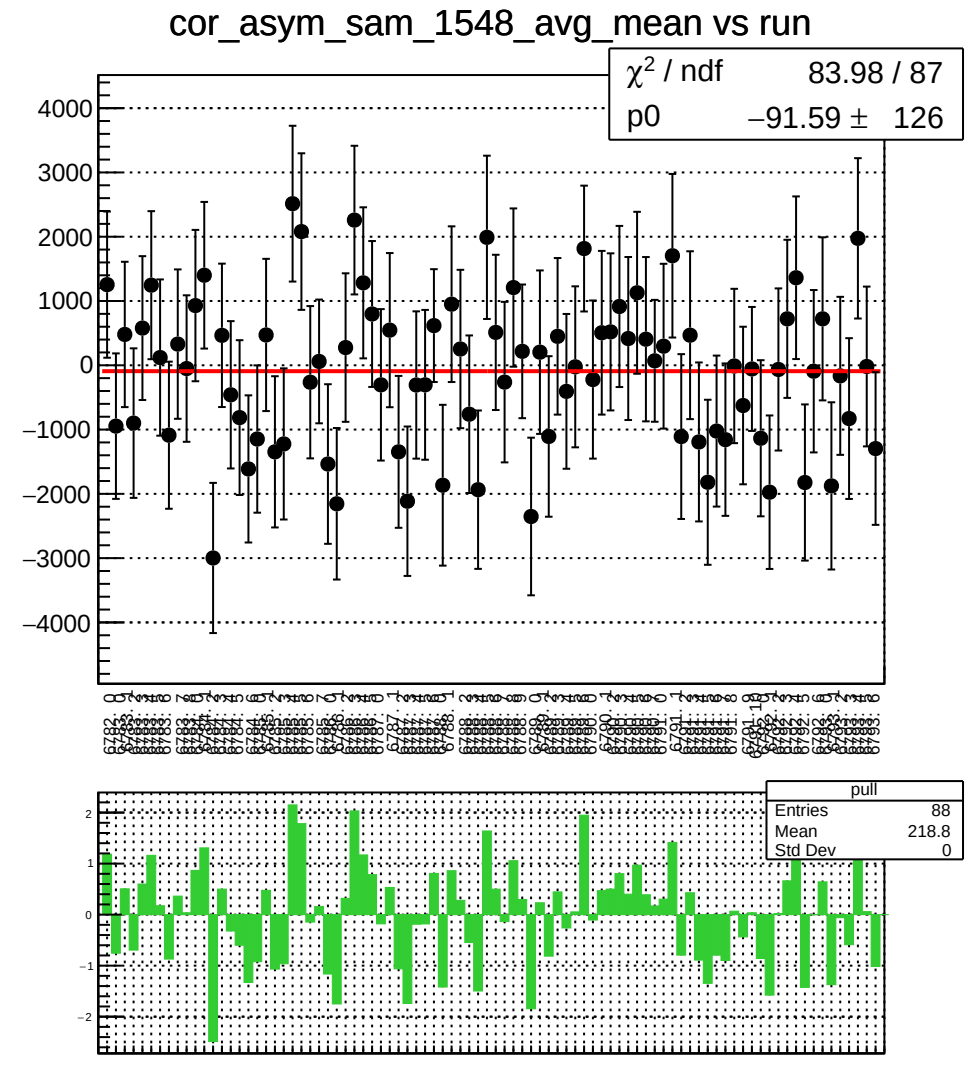

pull1D
Entries 88
Mean −0.008368
Std Dev 0.9768

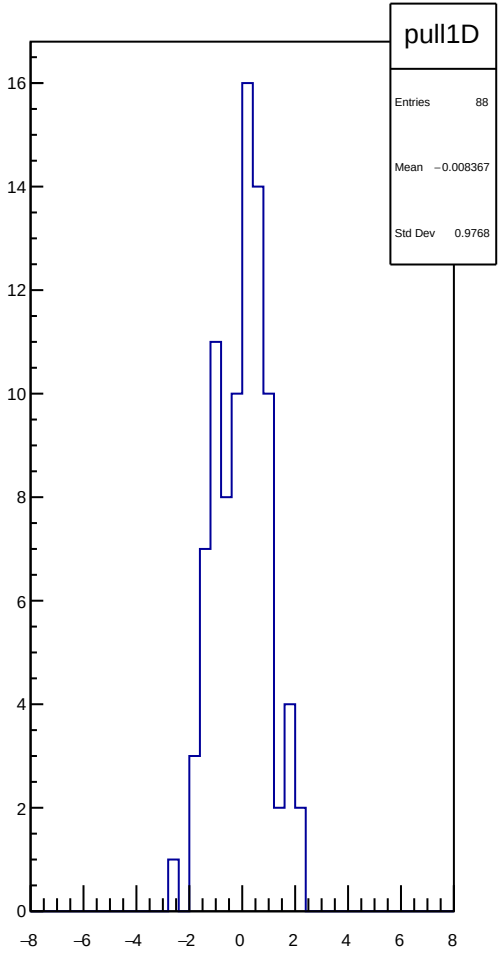

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2493 / 87
p0 114.6 ± 0.08911
125
120
115
110
105

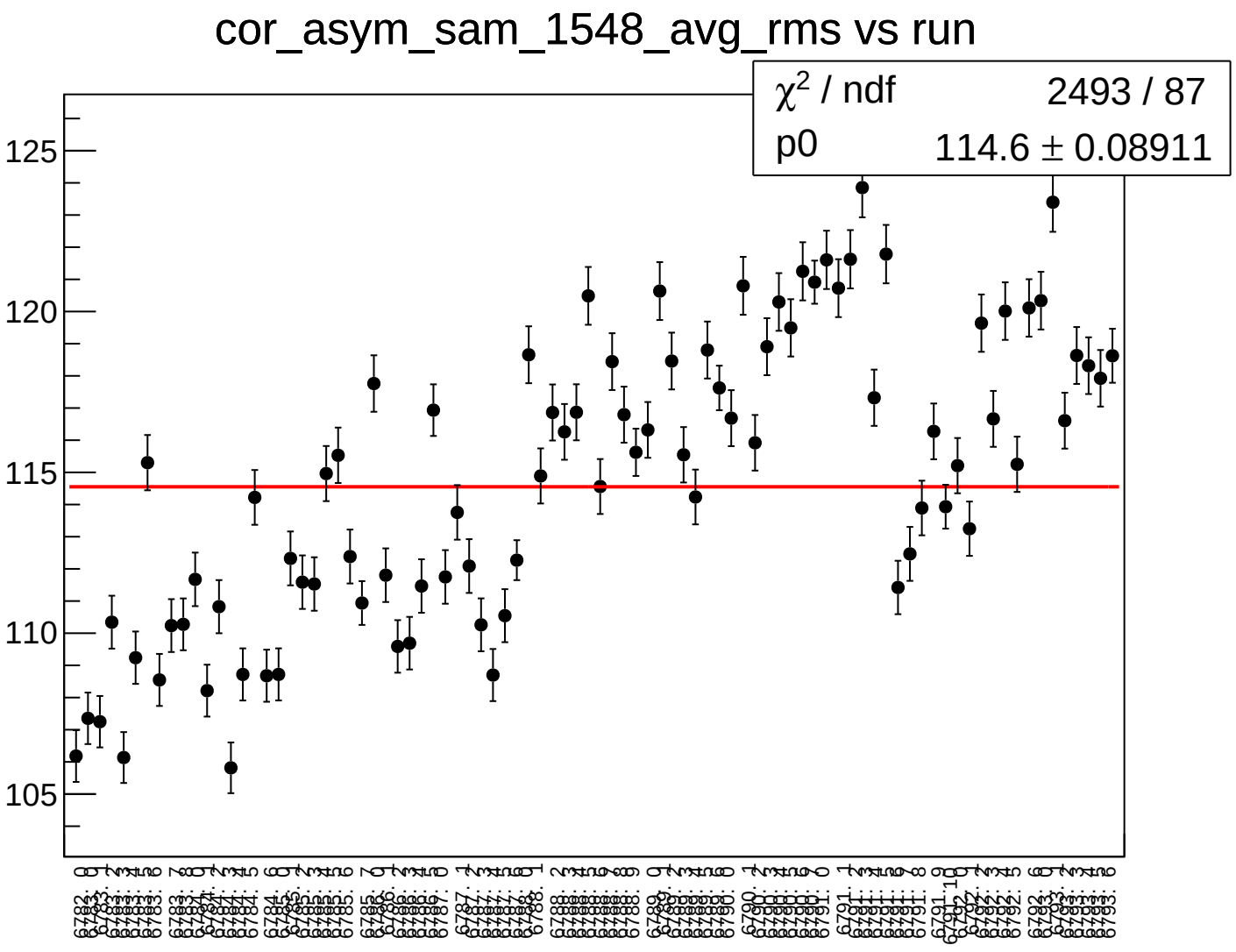

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 103.1 / 87
p0 −2598 ± 799.4
pull
Entries 88
Mean 1.195e+04
Std Dev 0

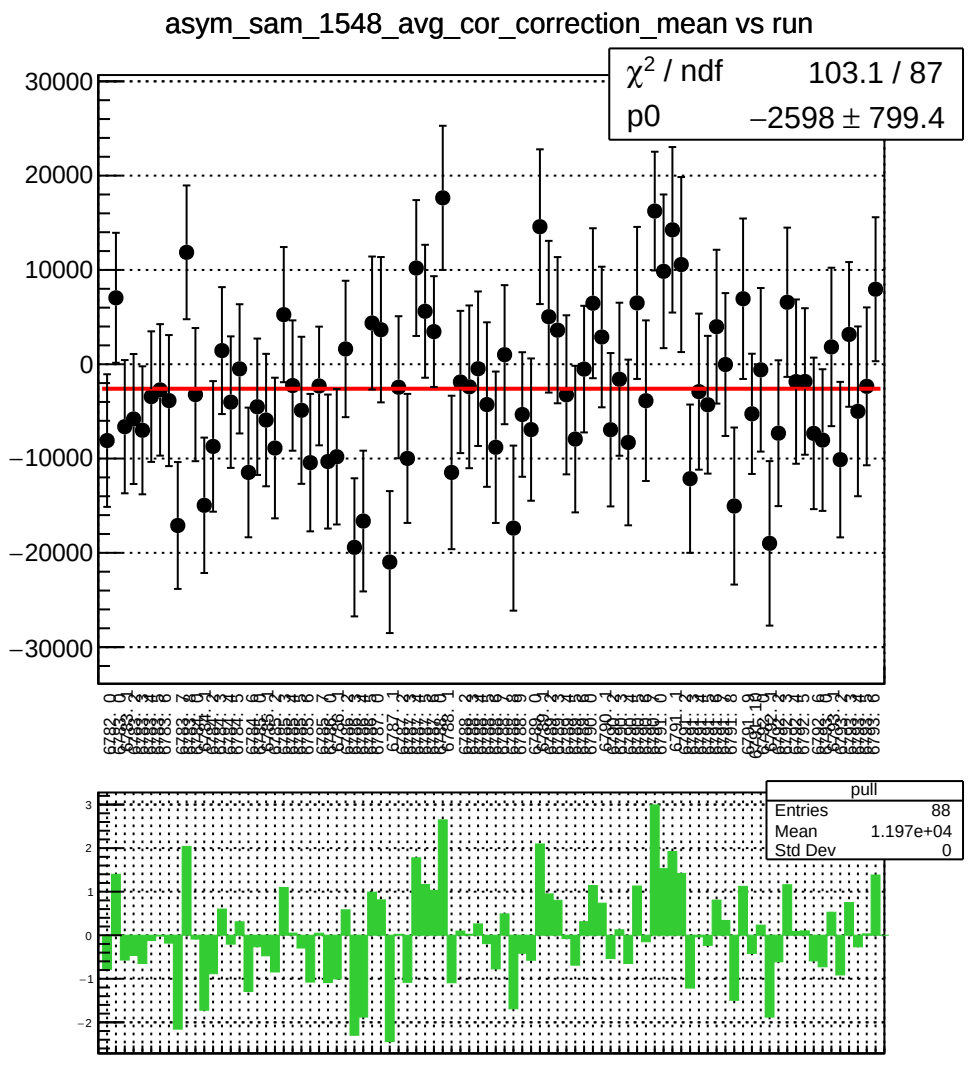

pull1D
Entries 88
Mean 0.0004015
Std Dev 1.082

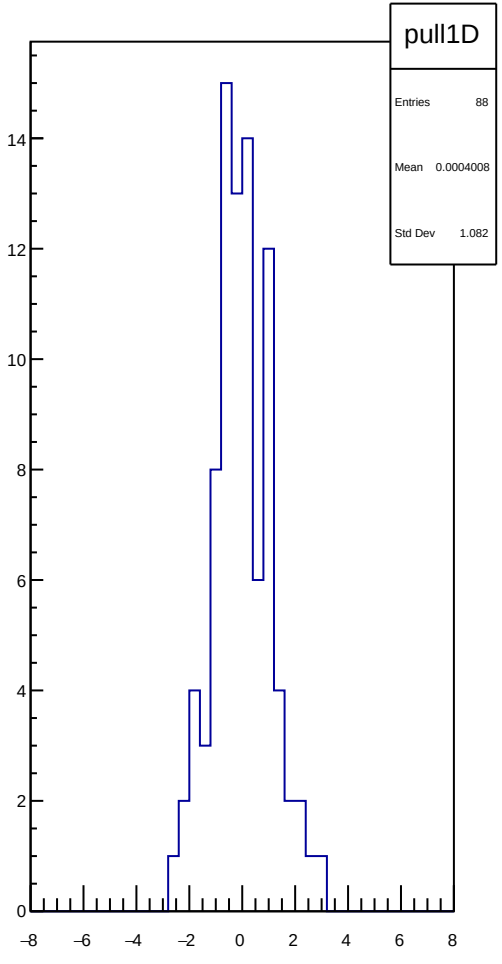

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.048e+04 / 87
p0 724.8 ± 0.5652
900
850
800
750
700
650

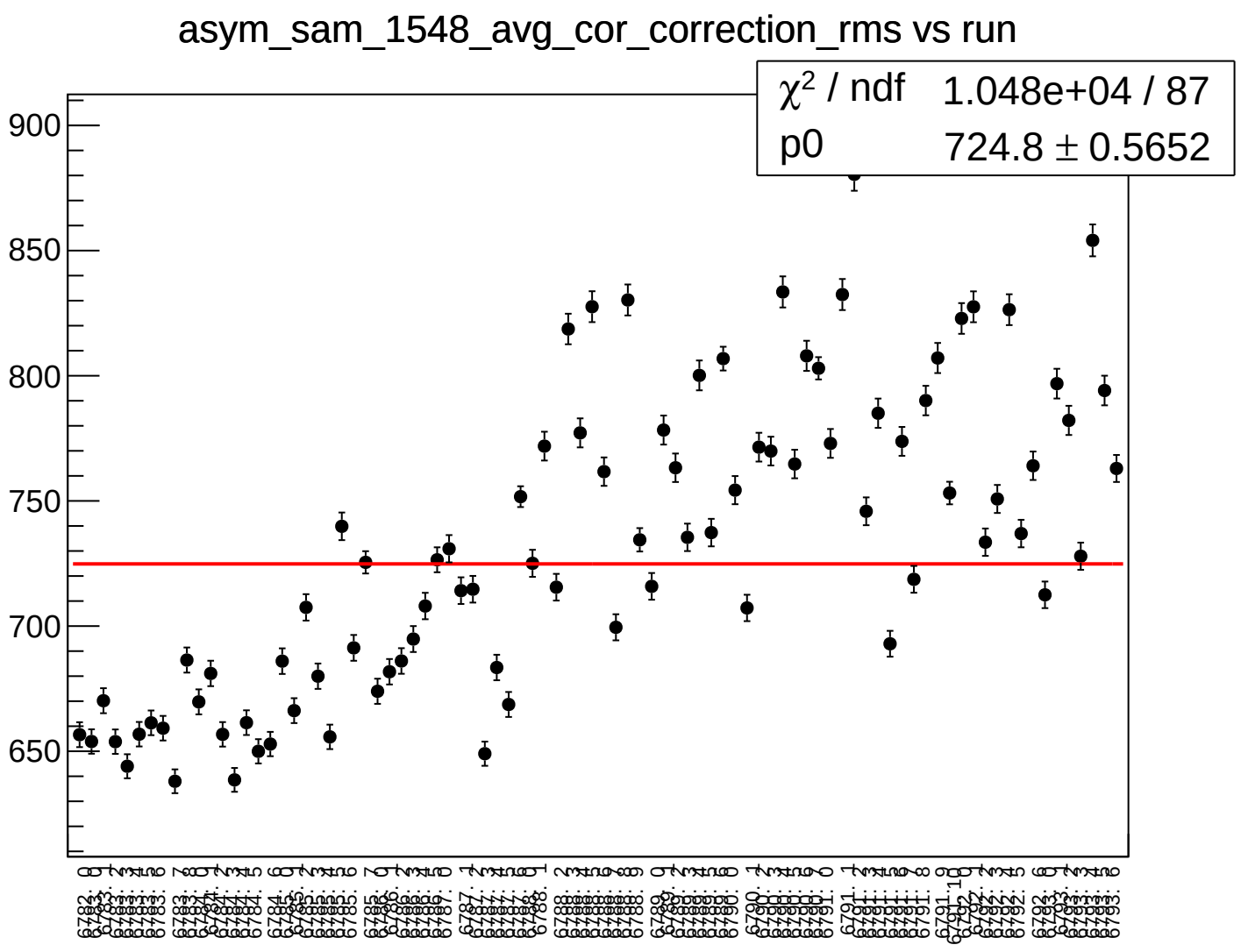

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 83.98 / 87
p0 −91.59 ± 126
pull
Entries 88
Mean 218.8
Std Dev 0

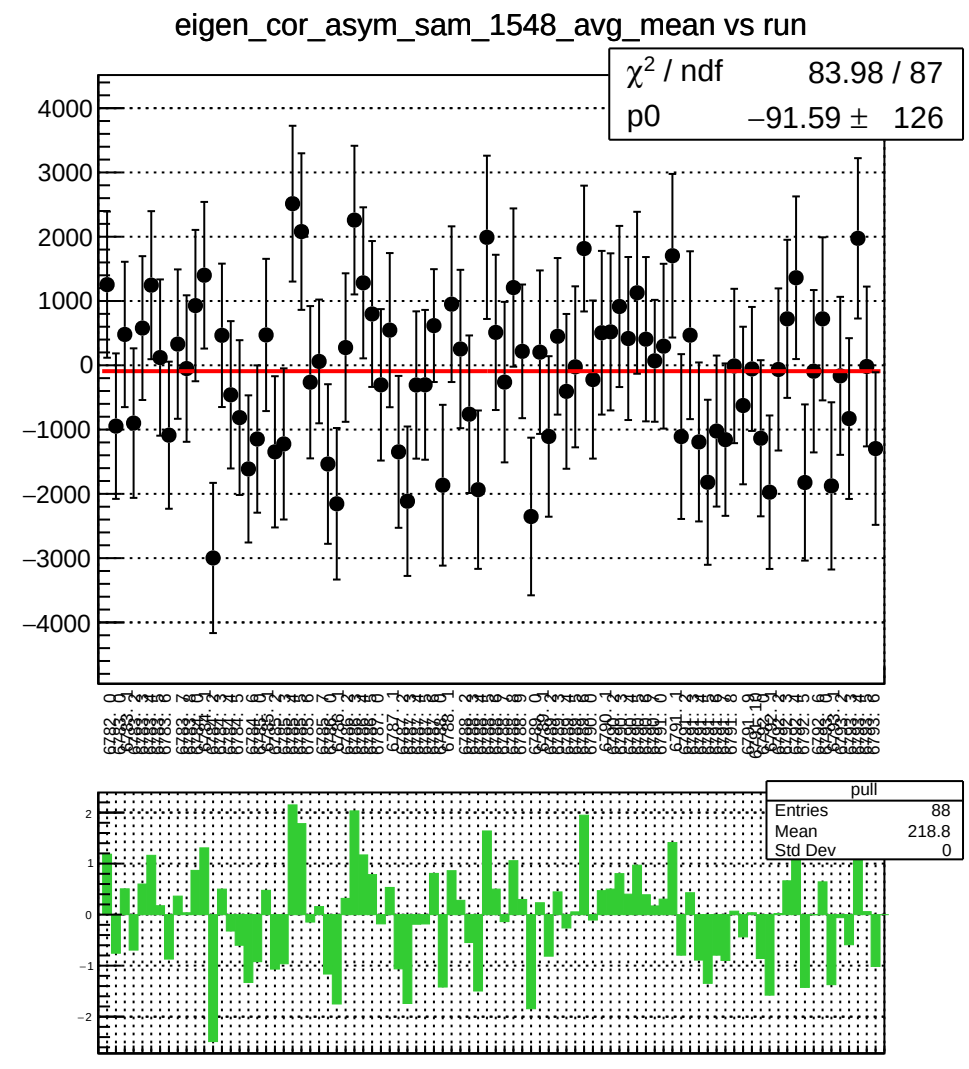

pull1D
Entries 88
Mean −0.008367
Std Dev 0.9768

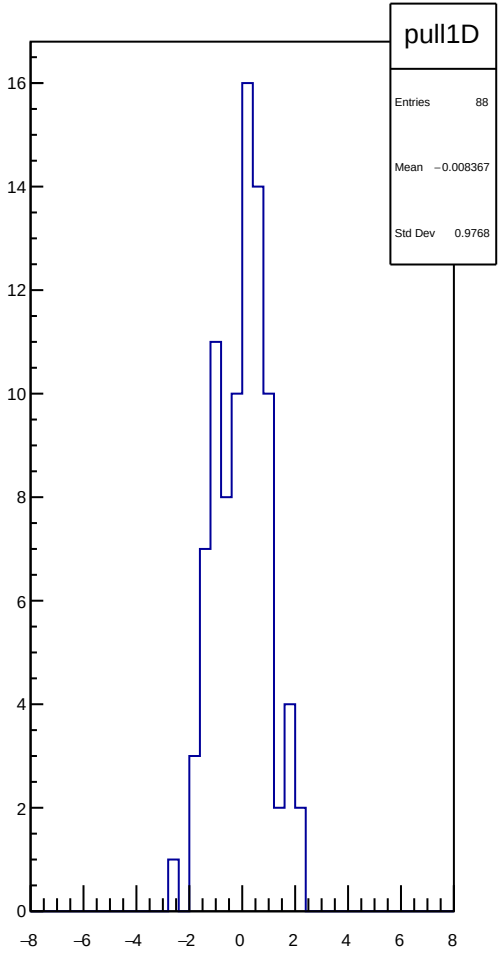

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2493 / 87
p0 114.6 ± 0.08911
125
120
115
110
105

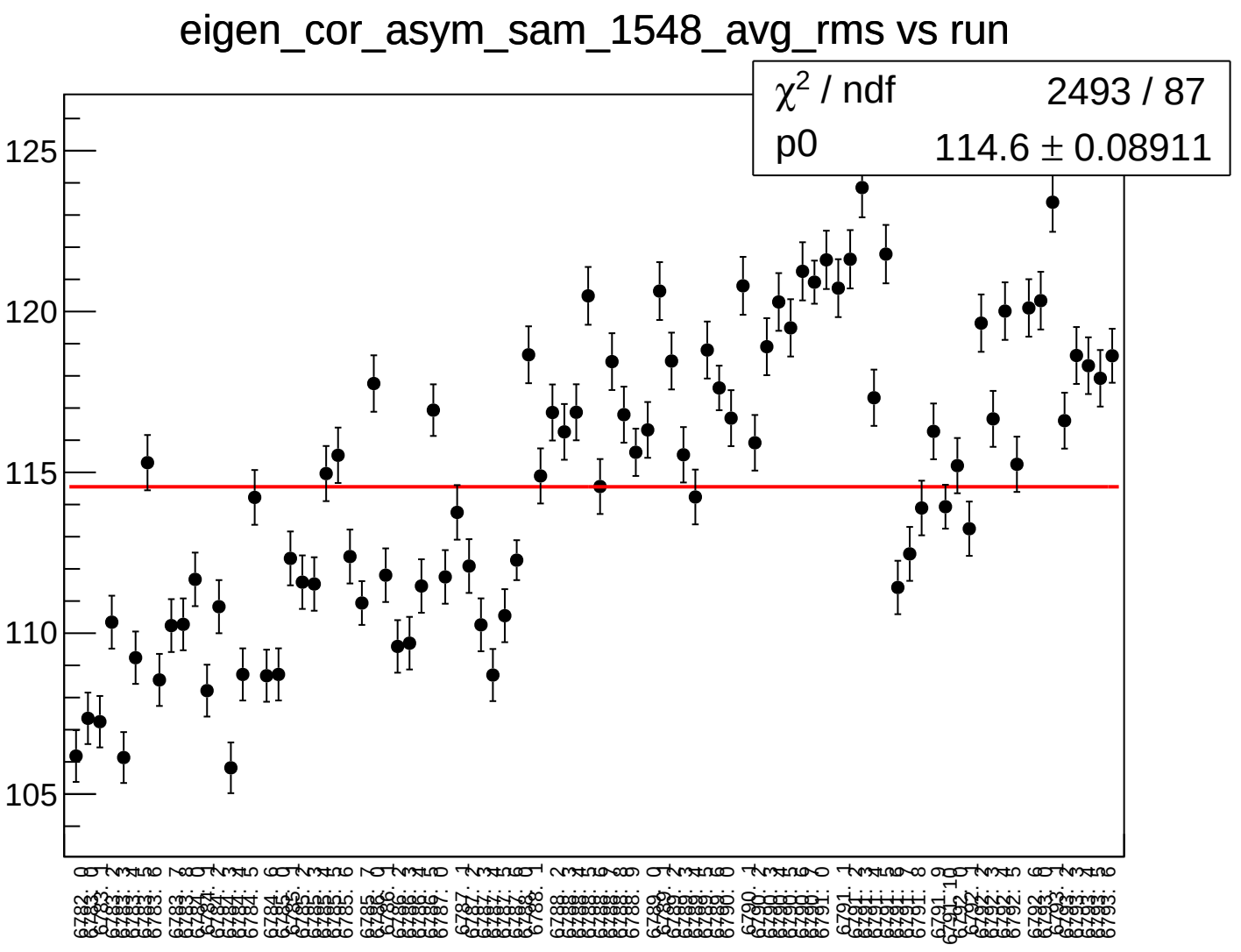

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 103.1 / 87
p0 −2598 ± 799.4
pull
Entries 88
Mean 1.197e+04
Std Dev 0

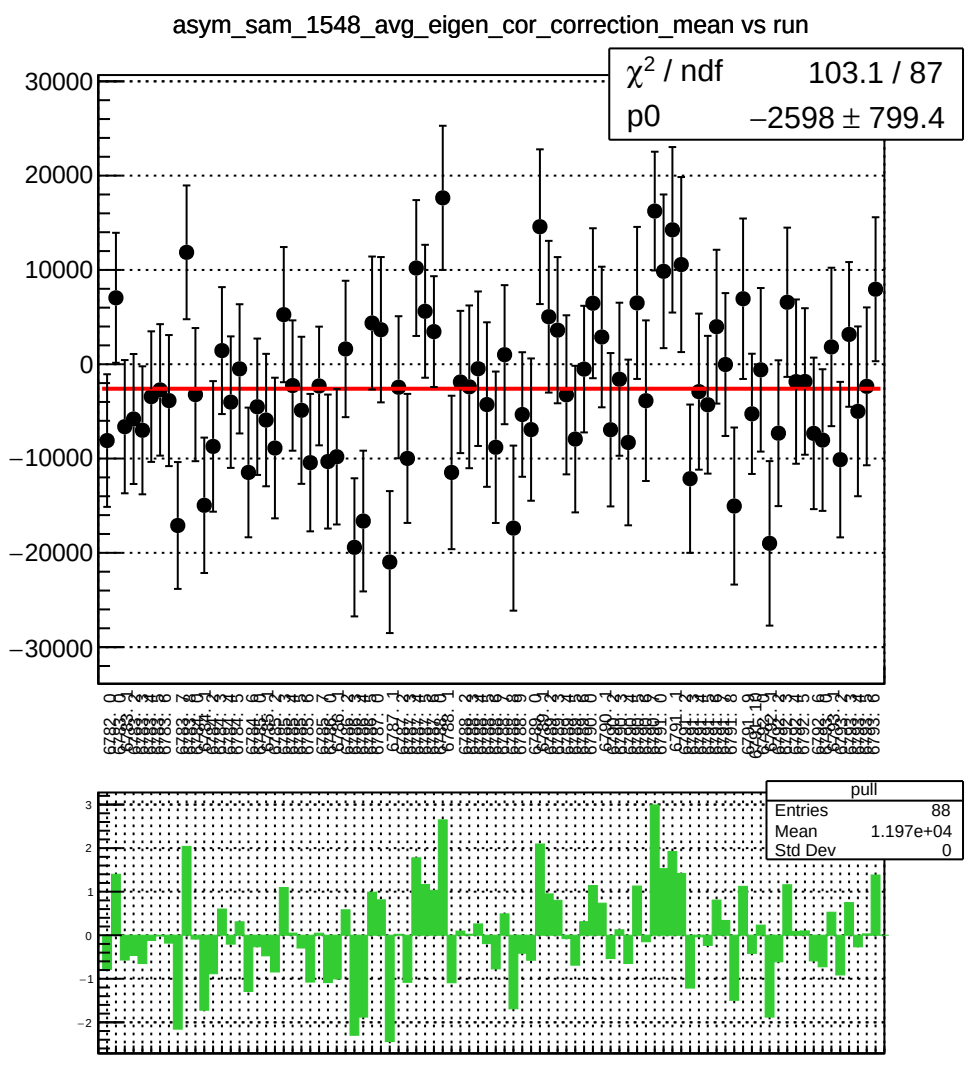

pull1D
Entries 88
Mean 0.0004008
Std Dev 1.082

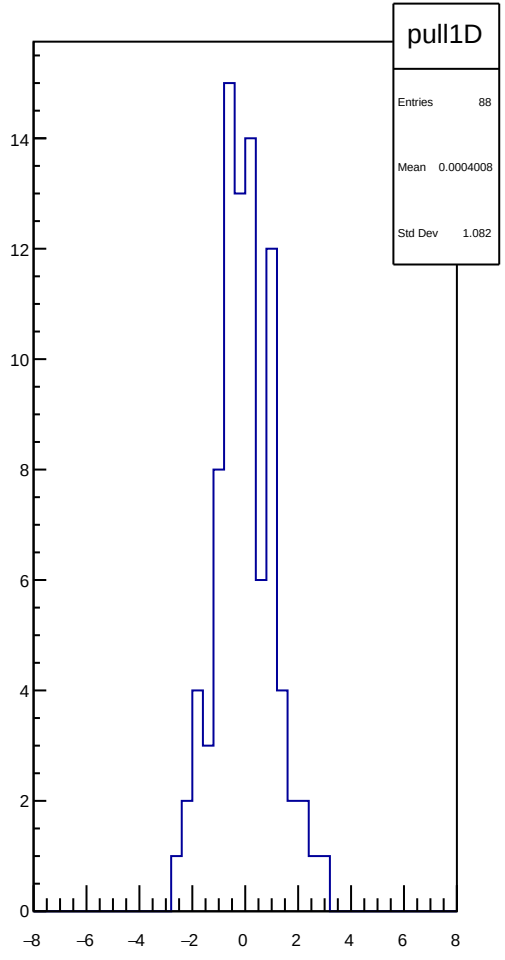

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.048e+04 / 87
p0 724.8 ± 0.5652
900
850
800
750
700
650

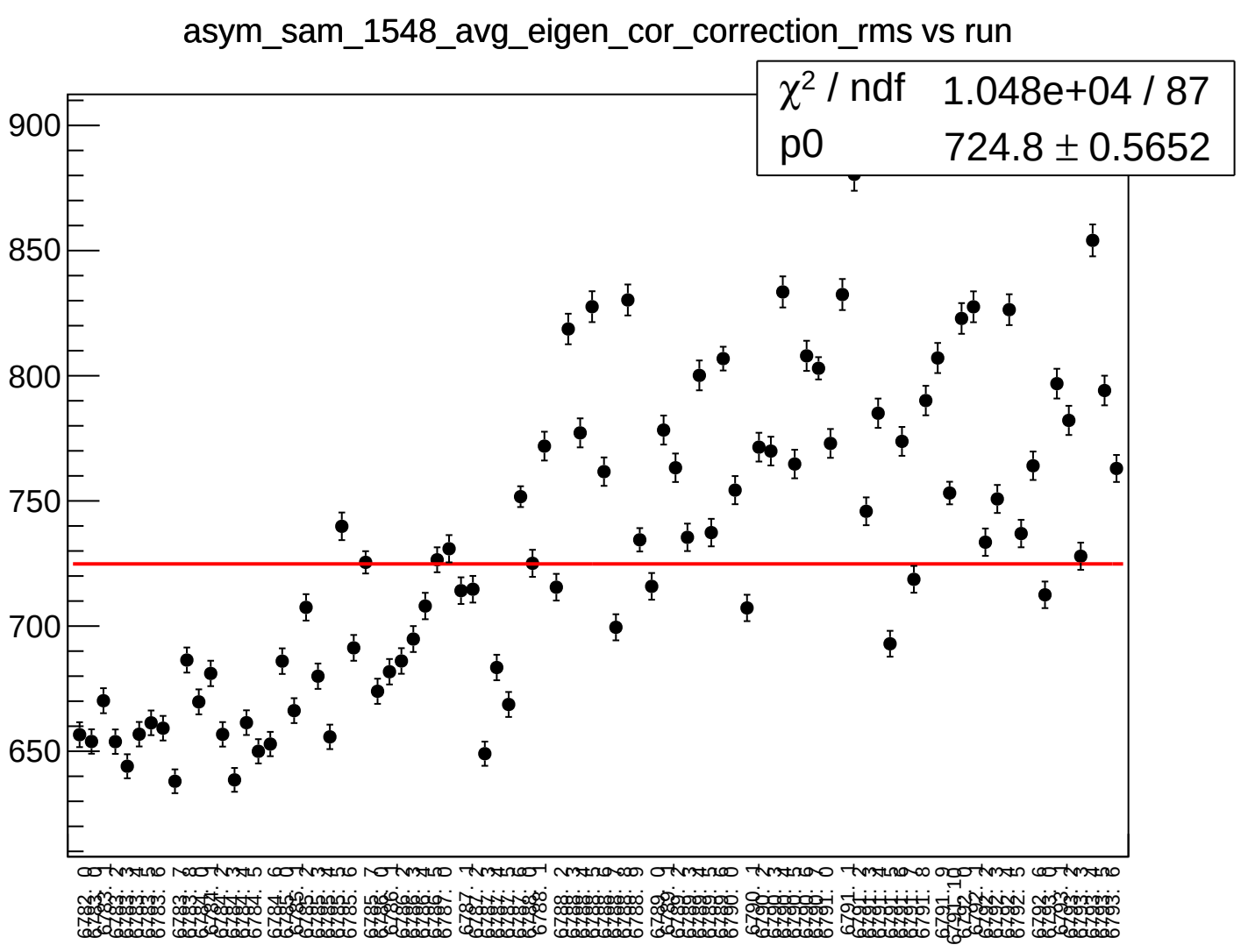

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 83.98 / 87
p0 −91.59 ± 126
pull
Entries 88
Mean 218.8
Std Dev 0

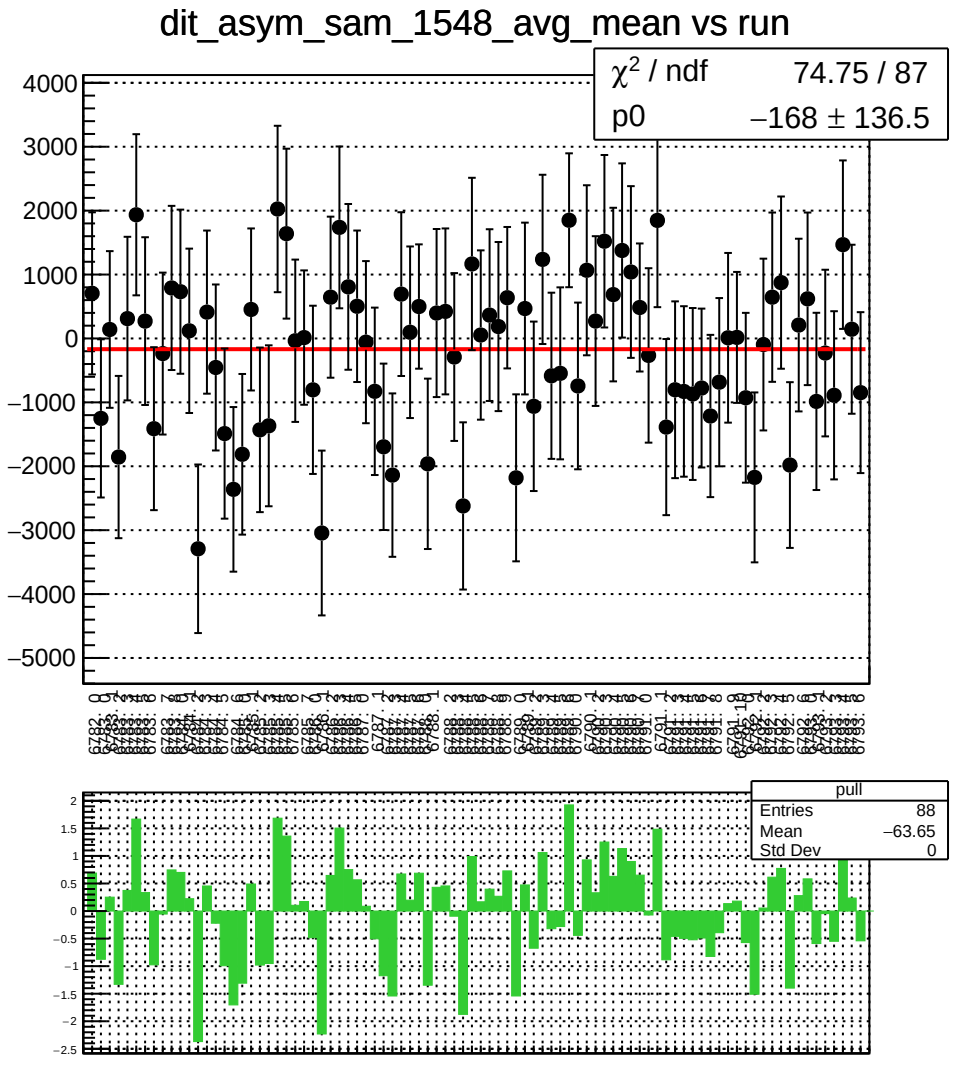

pull1D
Entries 88
Mean −0.008367
Std Dev 0.9768

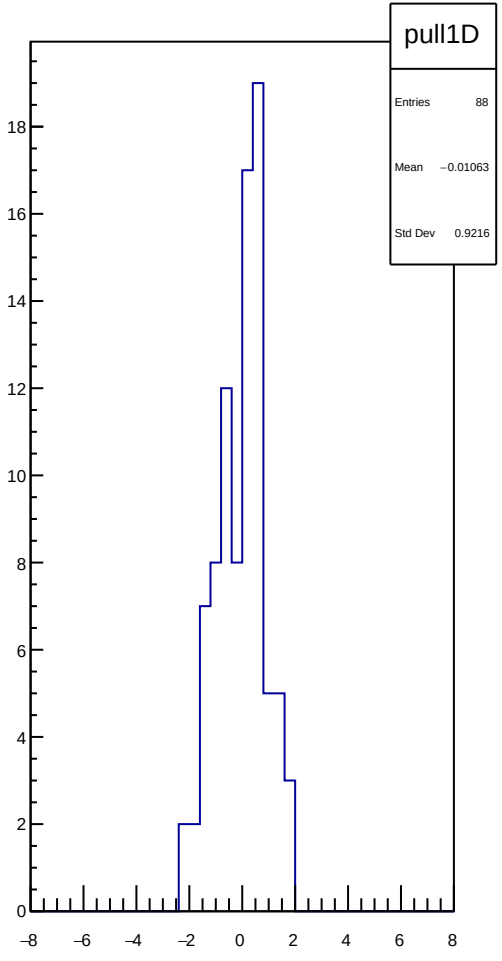

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2493 / 87
p0 114.6 ± 0.08911
125
120
115
110
105

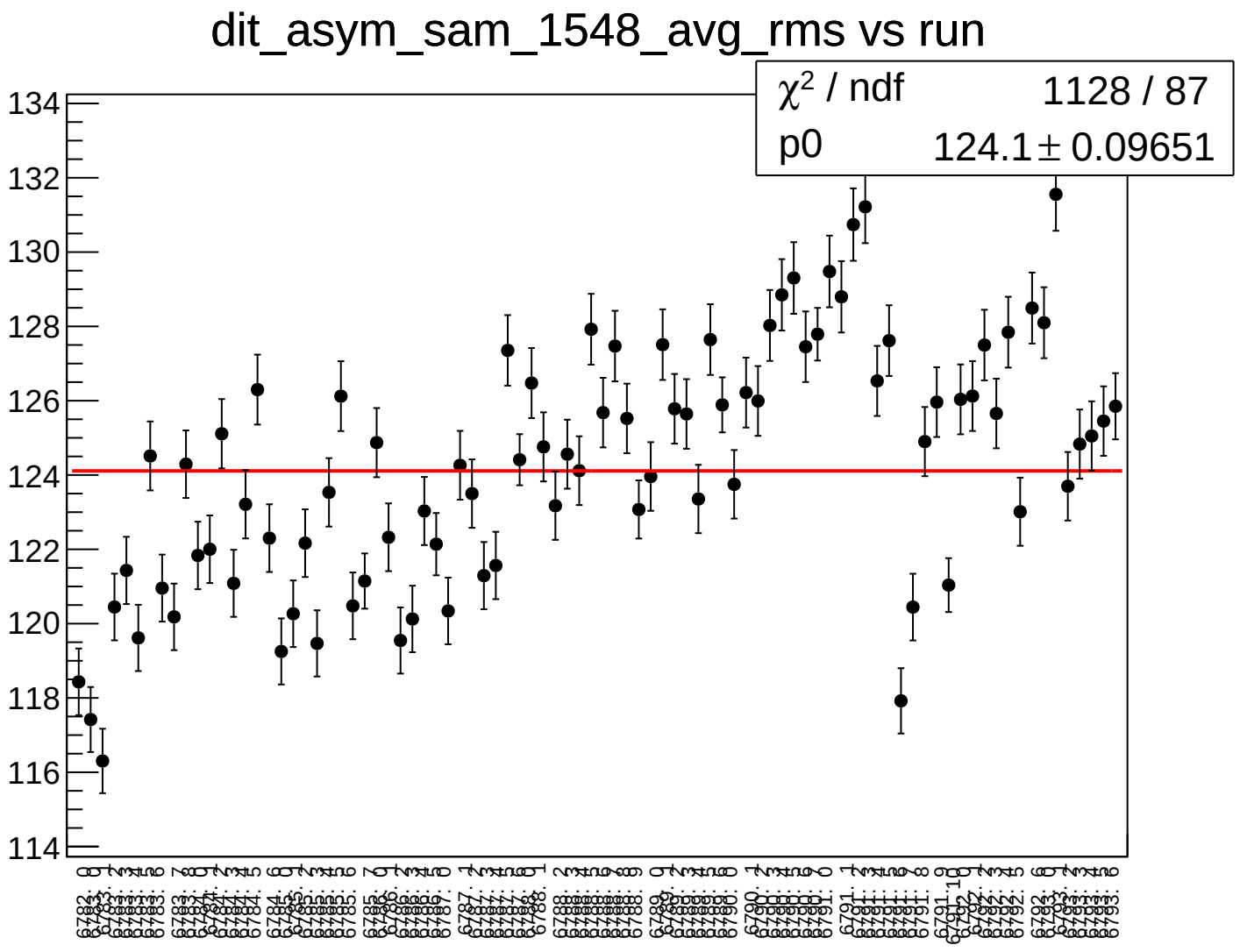

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.1 / 87
p0 −2598 ± 799.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1.197e+04
Std Dev 0
3
2
1
0
−1
−2

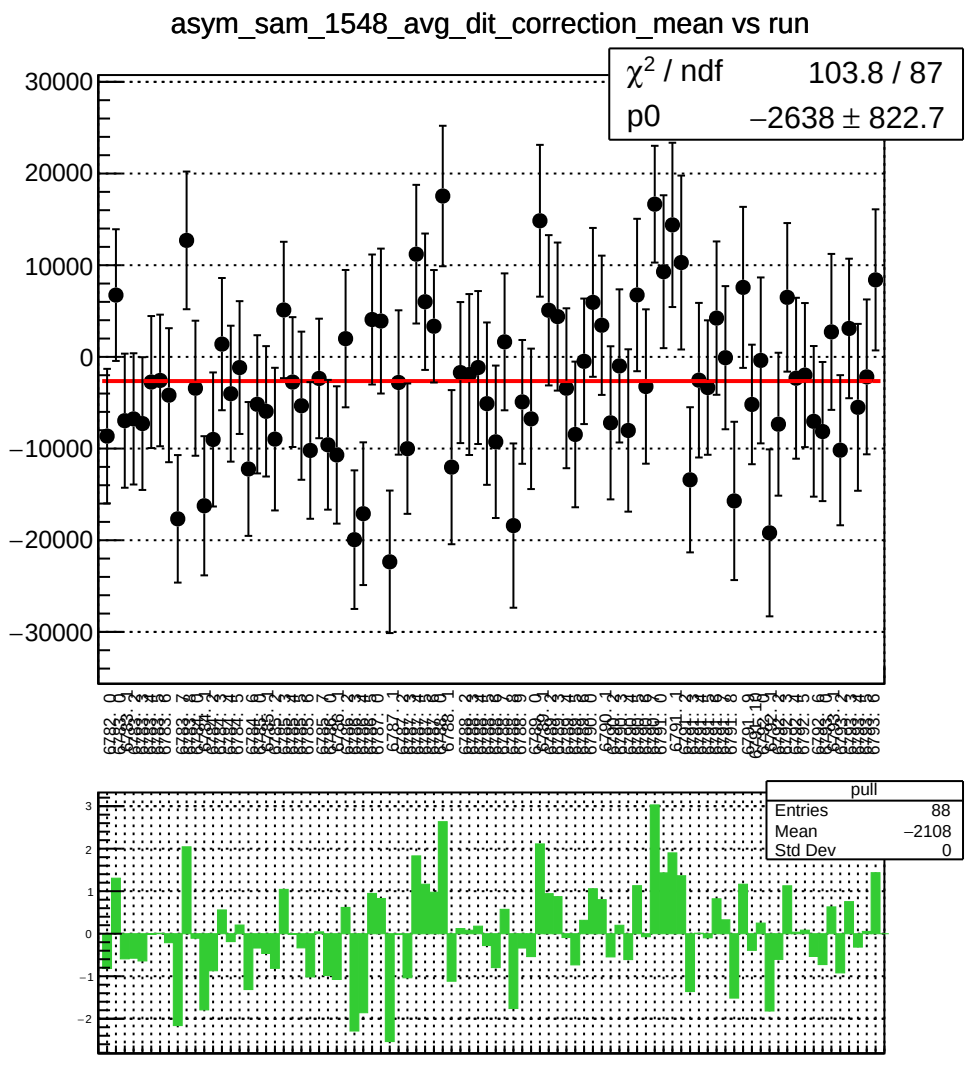

pull1D
Entries 88
Mean 0.0004008
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

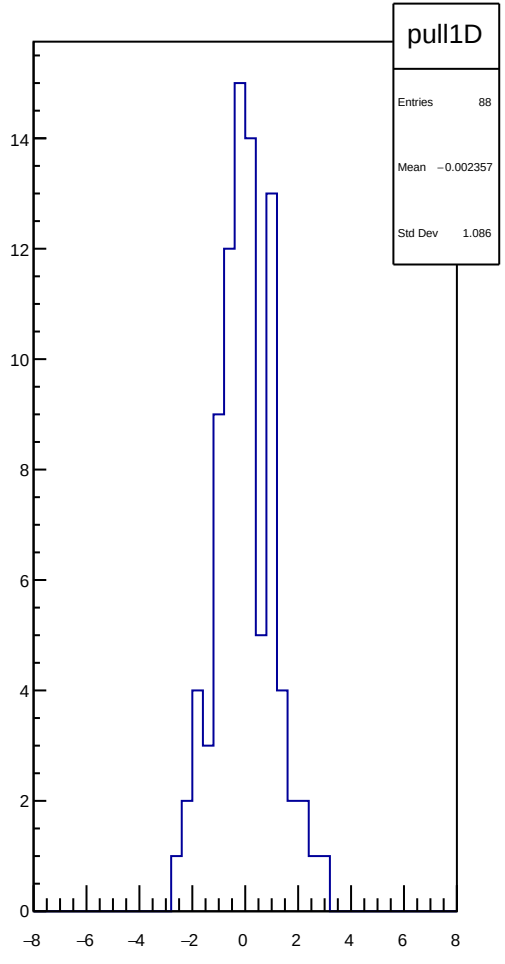

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.048e+04 / 87
p0 724.8 ± 0.5652
900
850
800
750
700
650

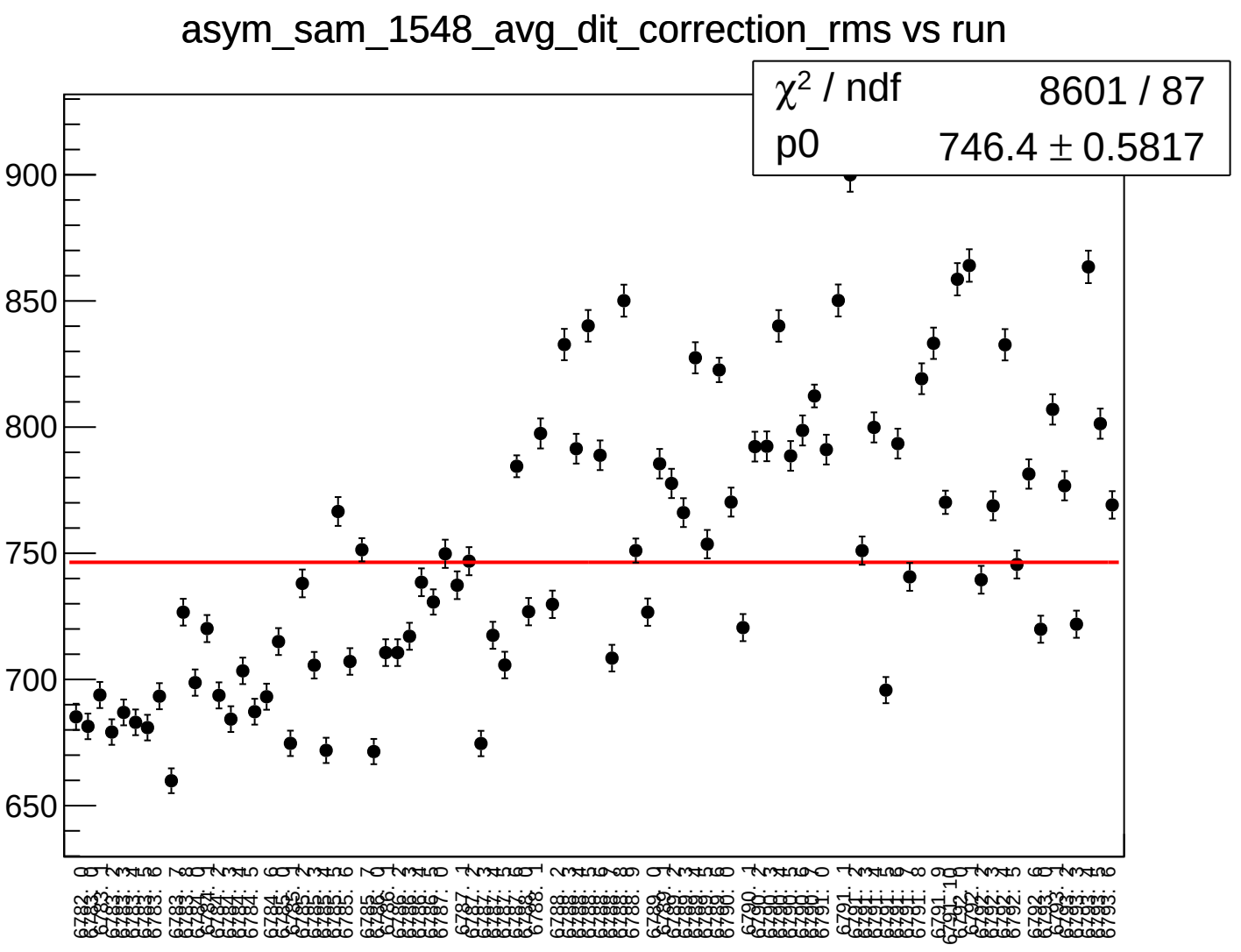

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 74.75 / 87
p0 −168 ± 136.5
pull
Entries 88
Mean −63.65
Std Dev 0

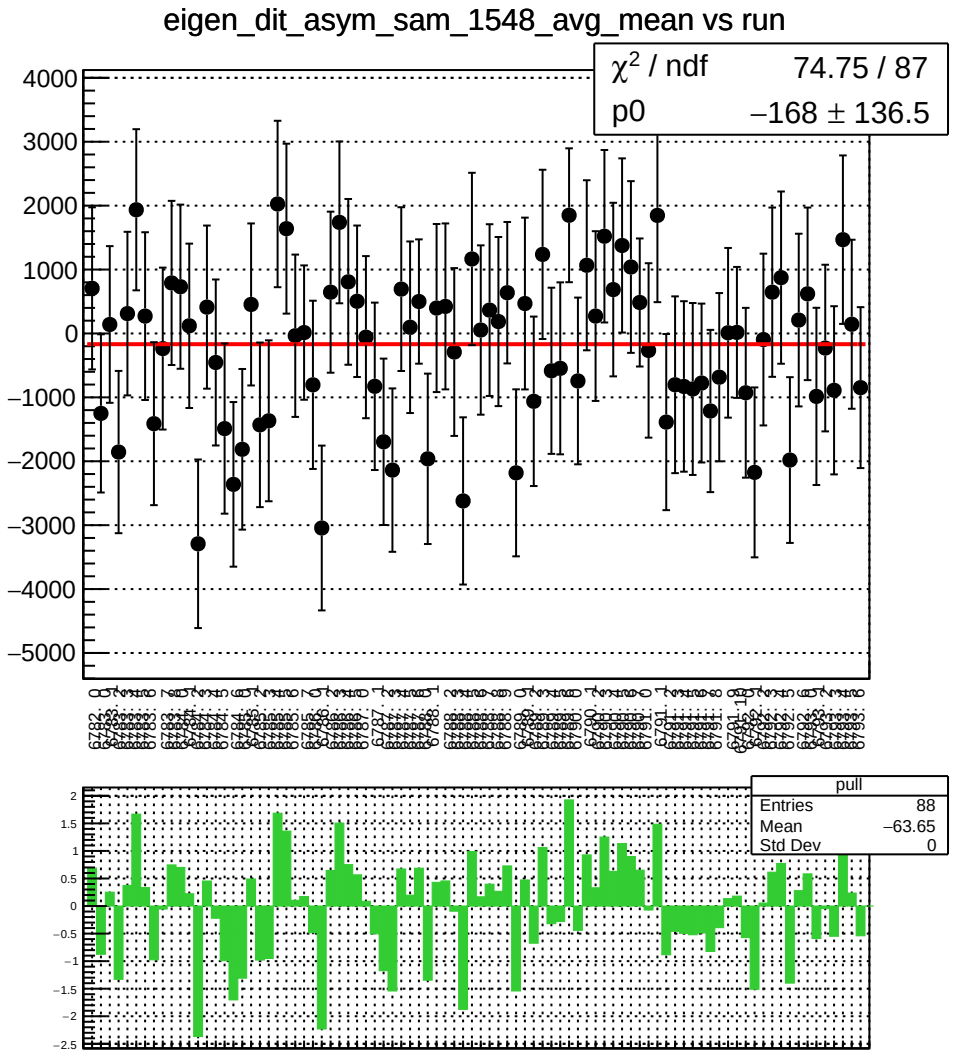

pull1D
Entries 88
Mean −0.01063
Std Dev 0.9216

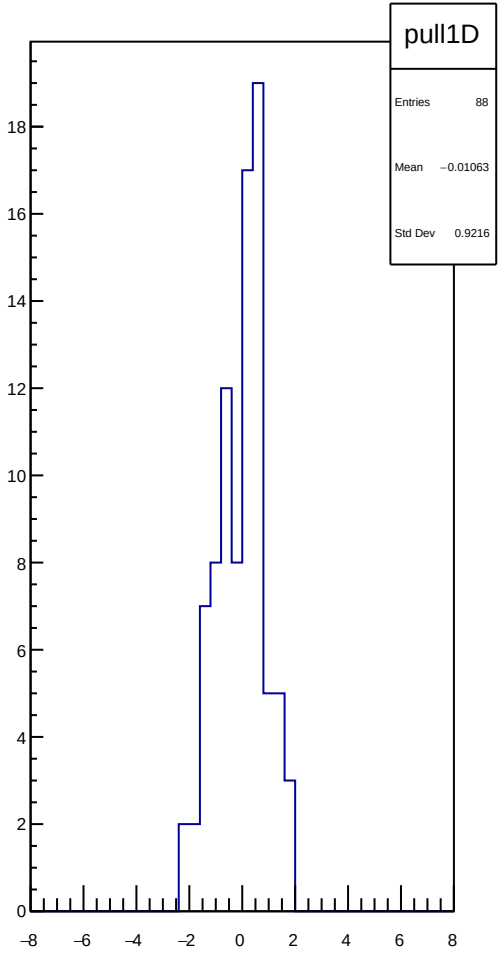

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1128 / 87
p0 124.1 ± 0.09651
134
132
130
128
126
124
122
120
118
116
114

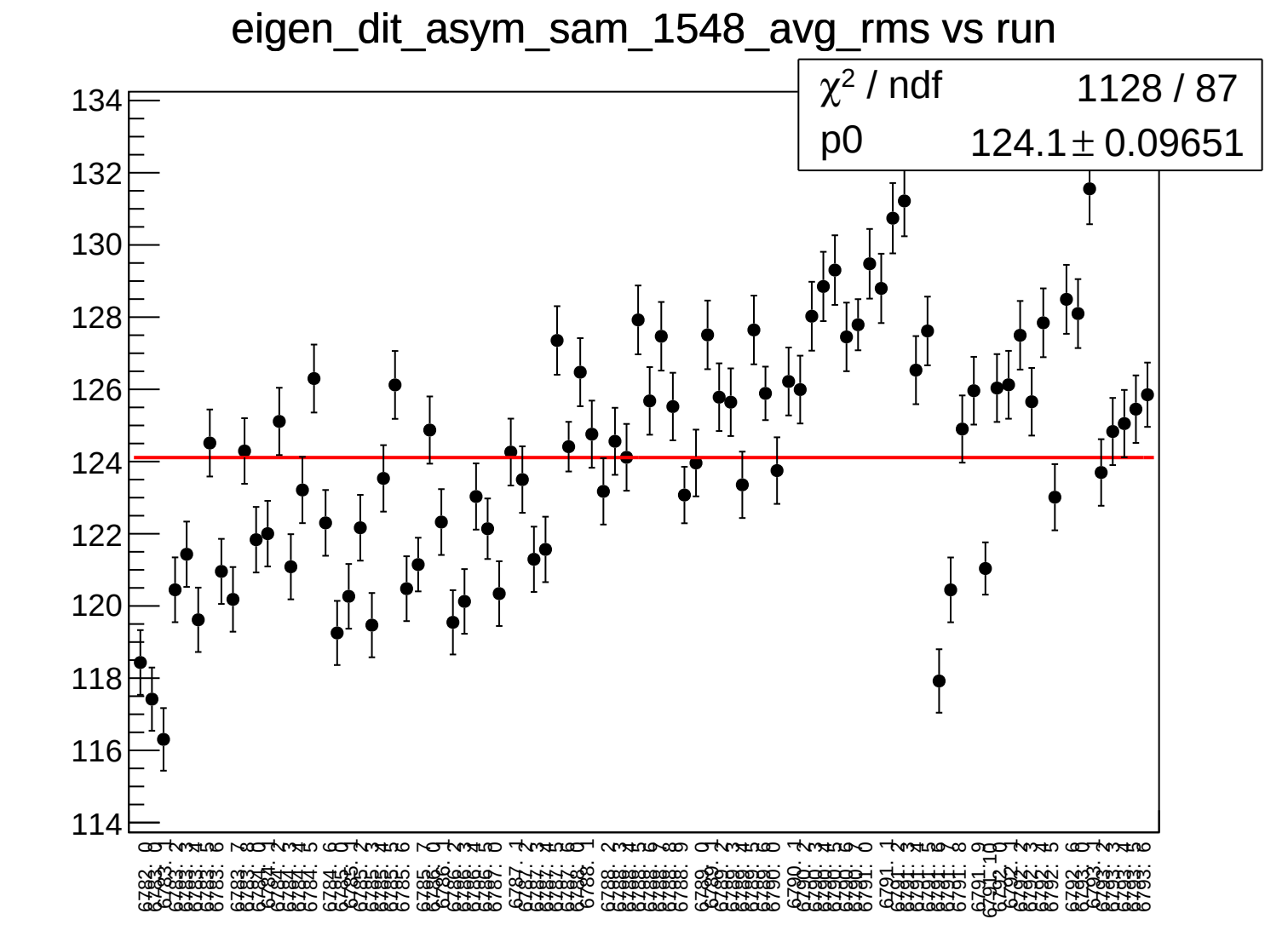

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 103.8 / 87
p0 −2638 ± 822.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −2108
Std Dev 0
3
2
1
0
−1
−2

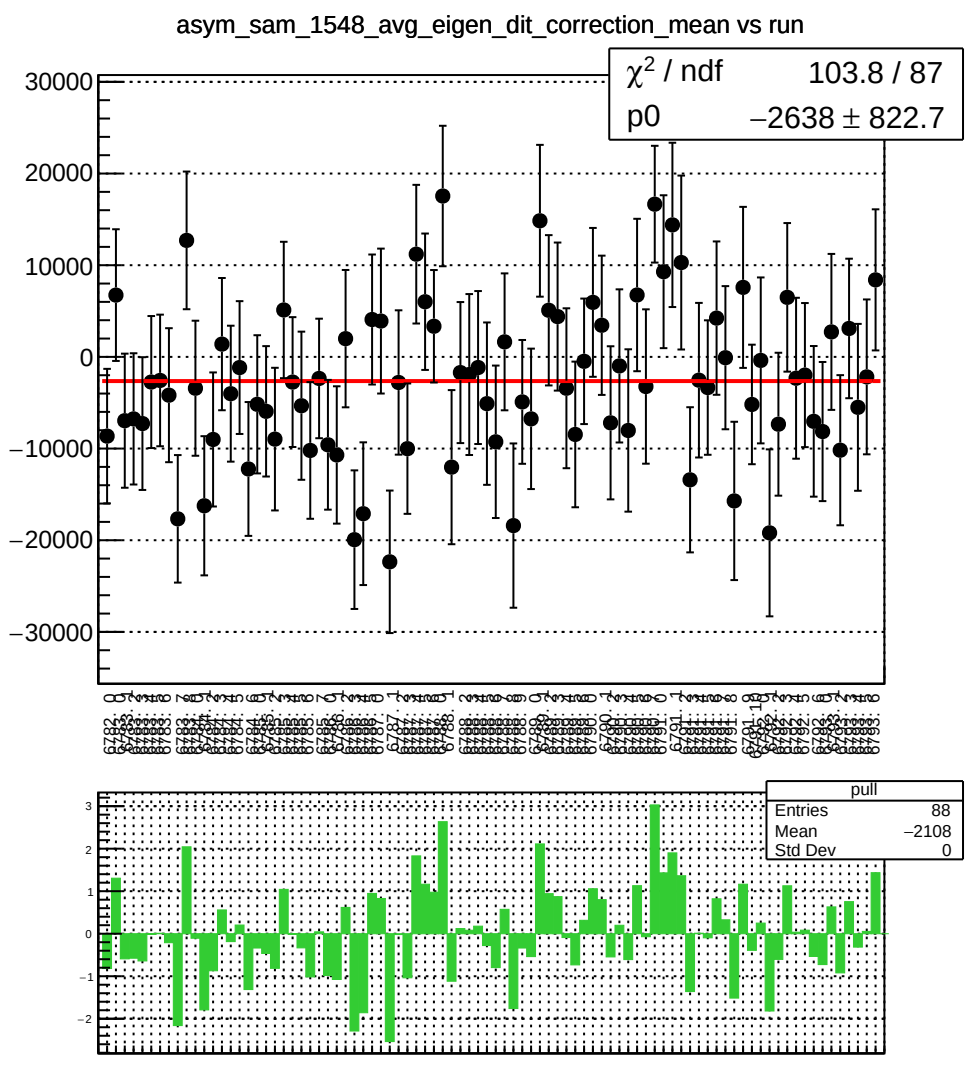

pull1D
Entries 88
Mean −0.002357
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

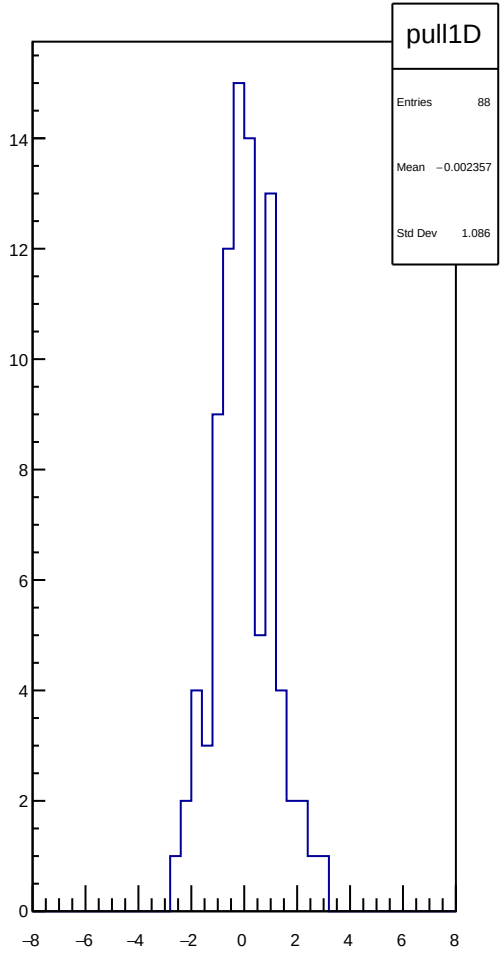

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 8601 / 87
p0 746.4 ± 0.5817
900
850
800
750
700
650

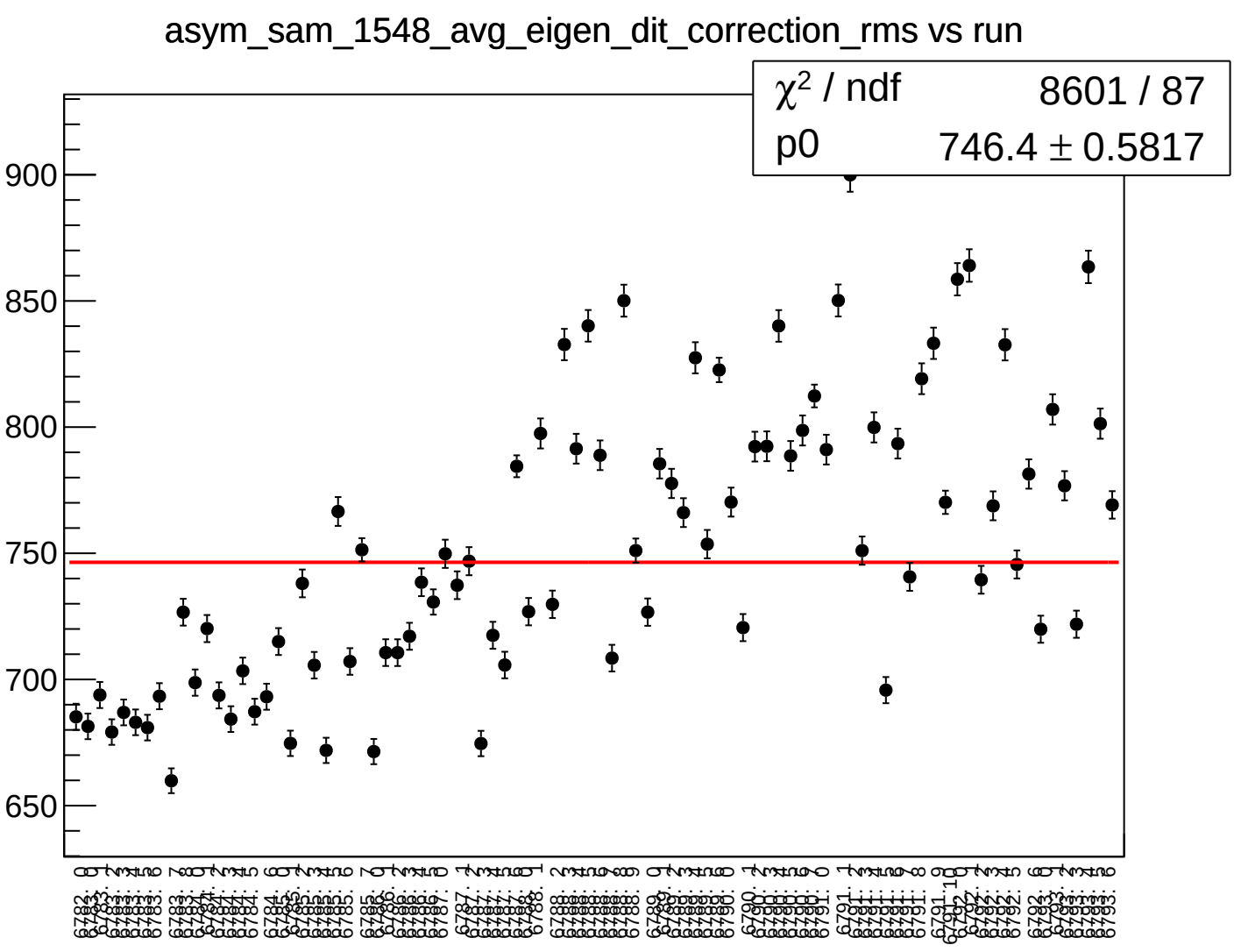

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 74.75 / 87
p0 −168 ± 136.5
pull
Entries 88
Mean −63.65
Std Dev 0

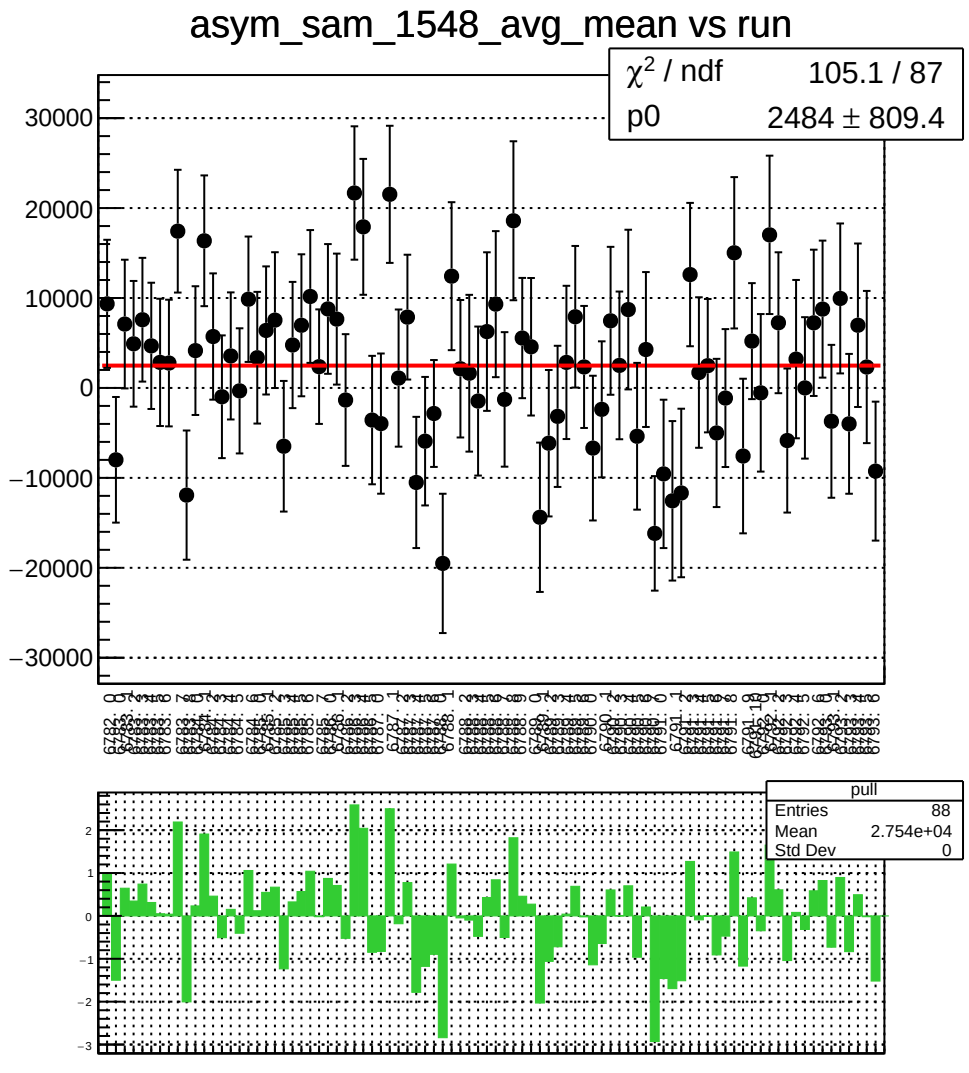

pull1D
Entries 88
Mean −0.01063
Std Dev 0.9216

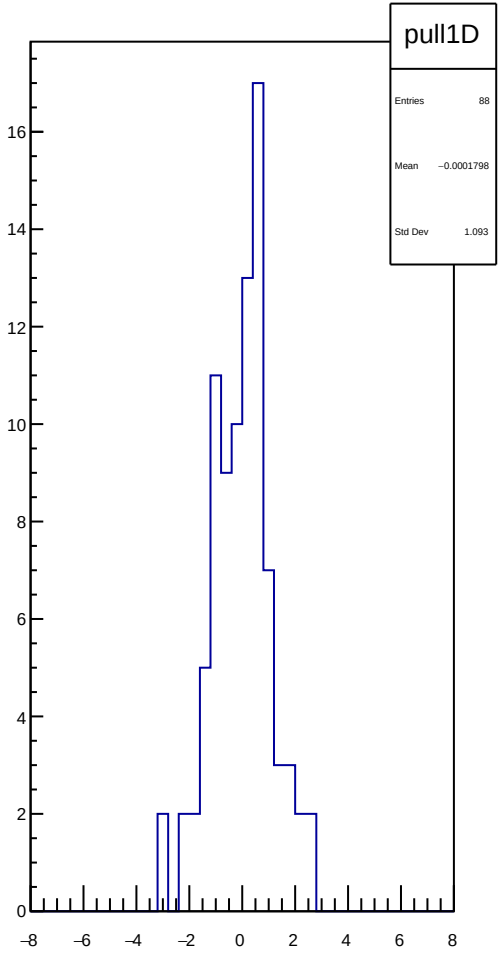

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1128 / 87
p0 124.1 ± 0.09651
134
132
130
128
126
124
122
120
118
116
114

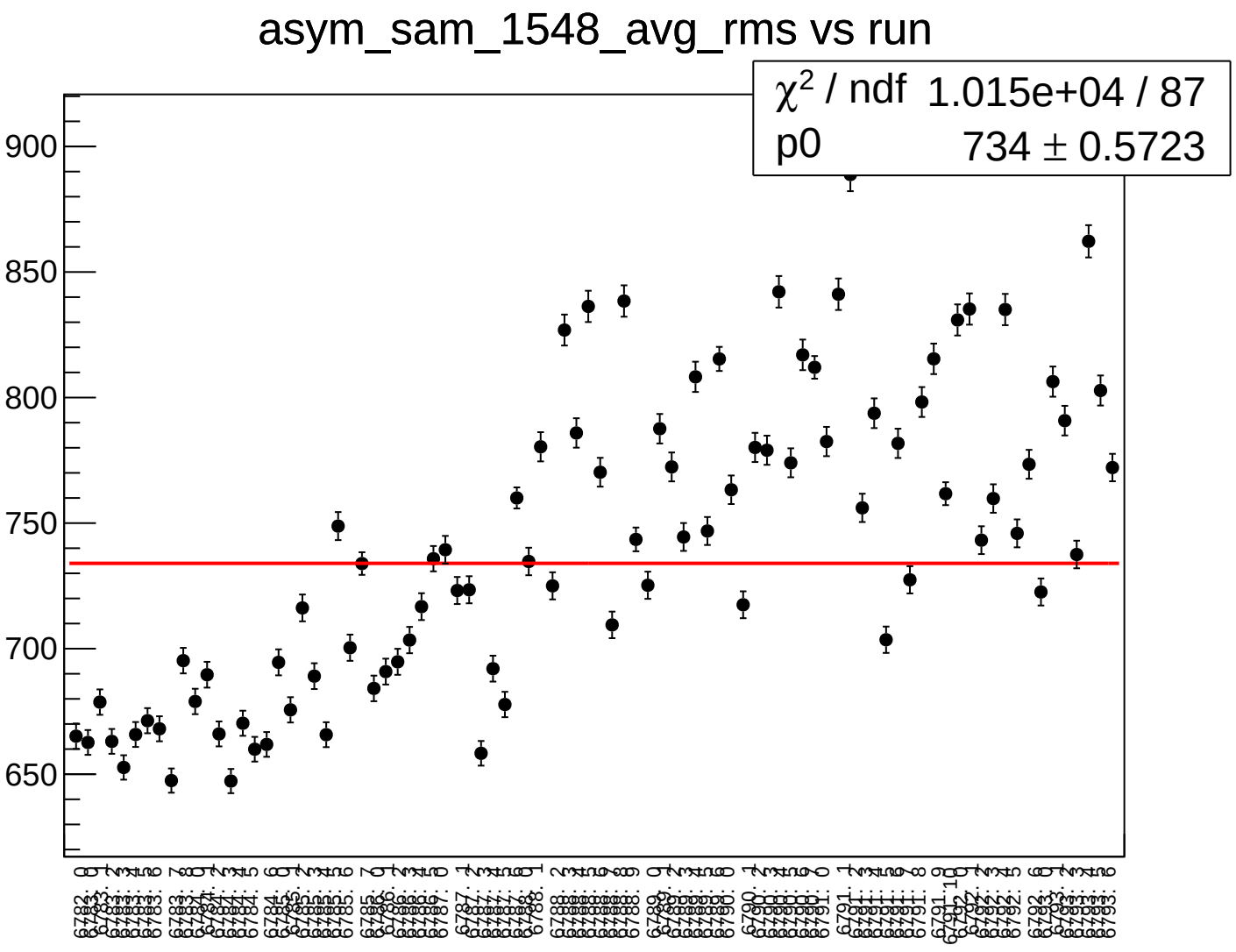

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.8 / 87
p0 −2638 ± 822.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −2108
Std Dev 0
3
2
1
0
−1
−2

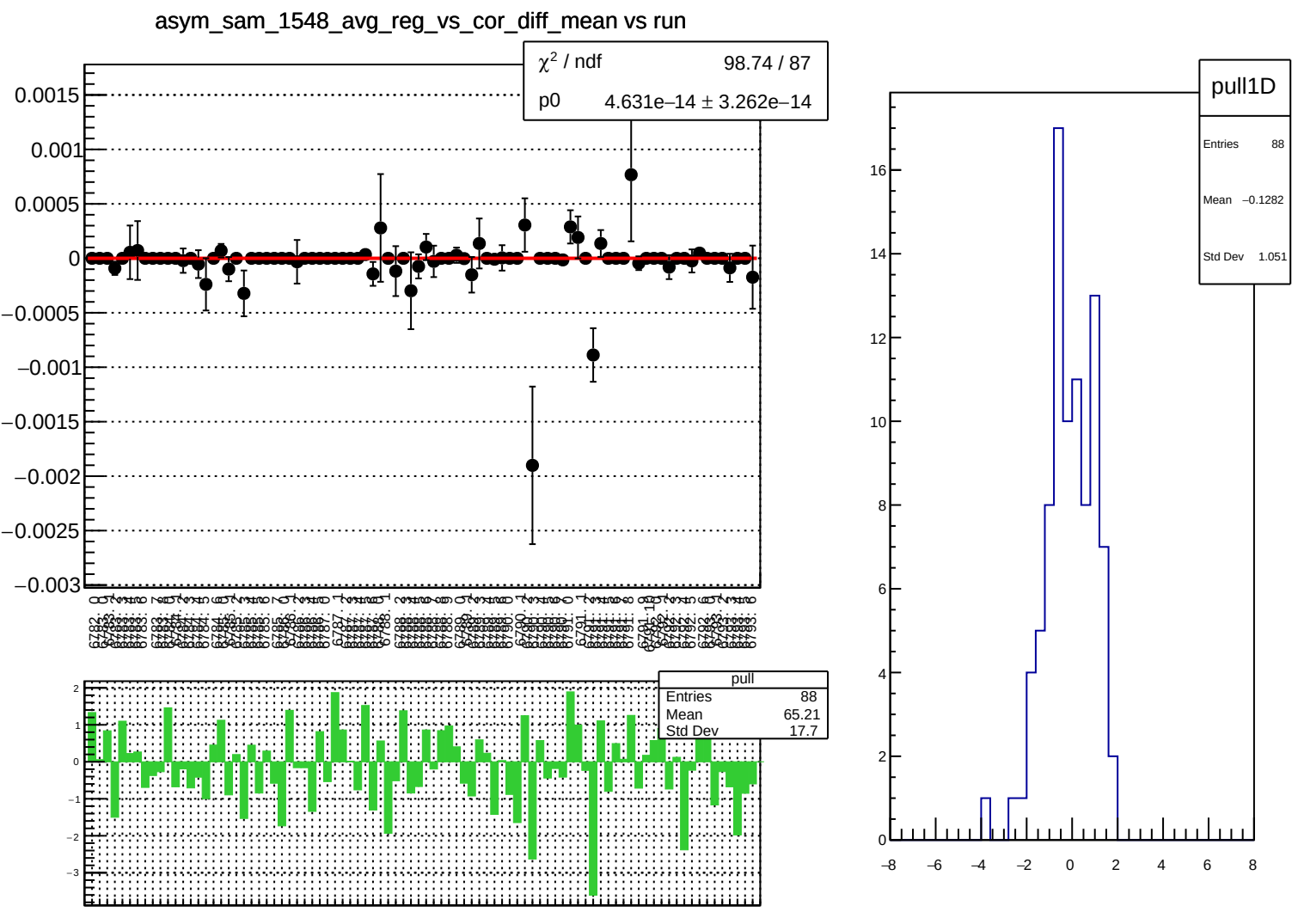

pull1D
Entries 88
Mean −0.002357
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

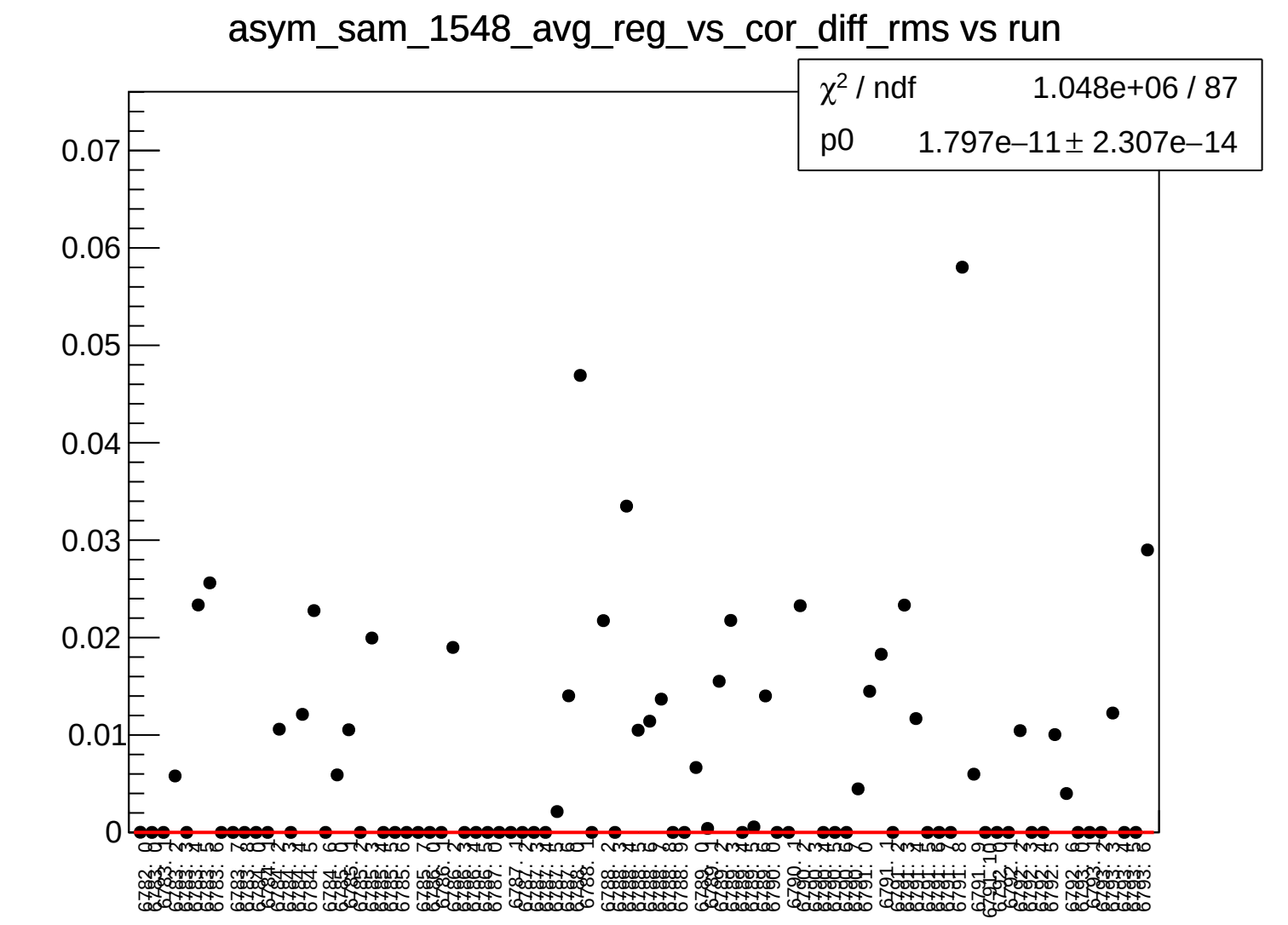

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 8601 / 87
p0 746.4 ± 0.5817
900
850
800
750
700
650

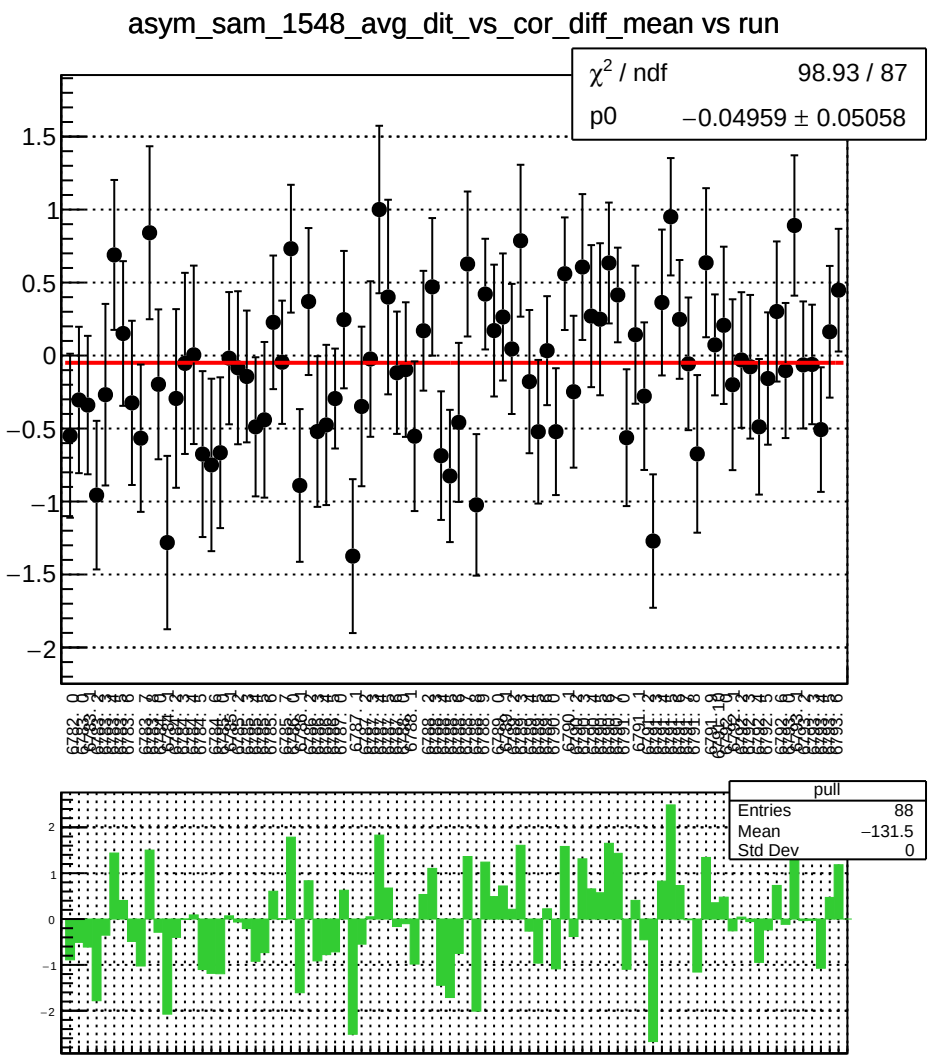

asym_sam_1548_avg_mean vs run
χ² / ndf 105.1 / 87
p0 2484 ± 809.4
pull
Entries 88
Mean 2.754e+04
Std Dev 0

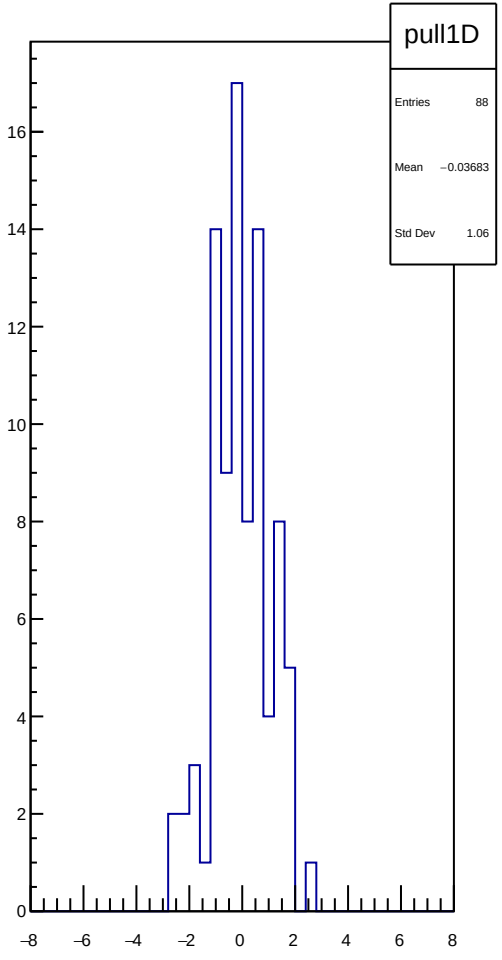

pull1D
Entries 88
Mean −0.0001798
Std Dev 1.093

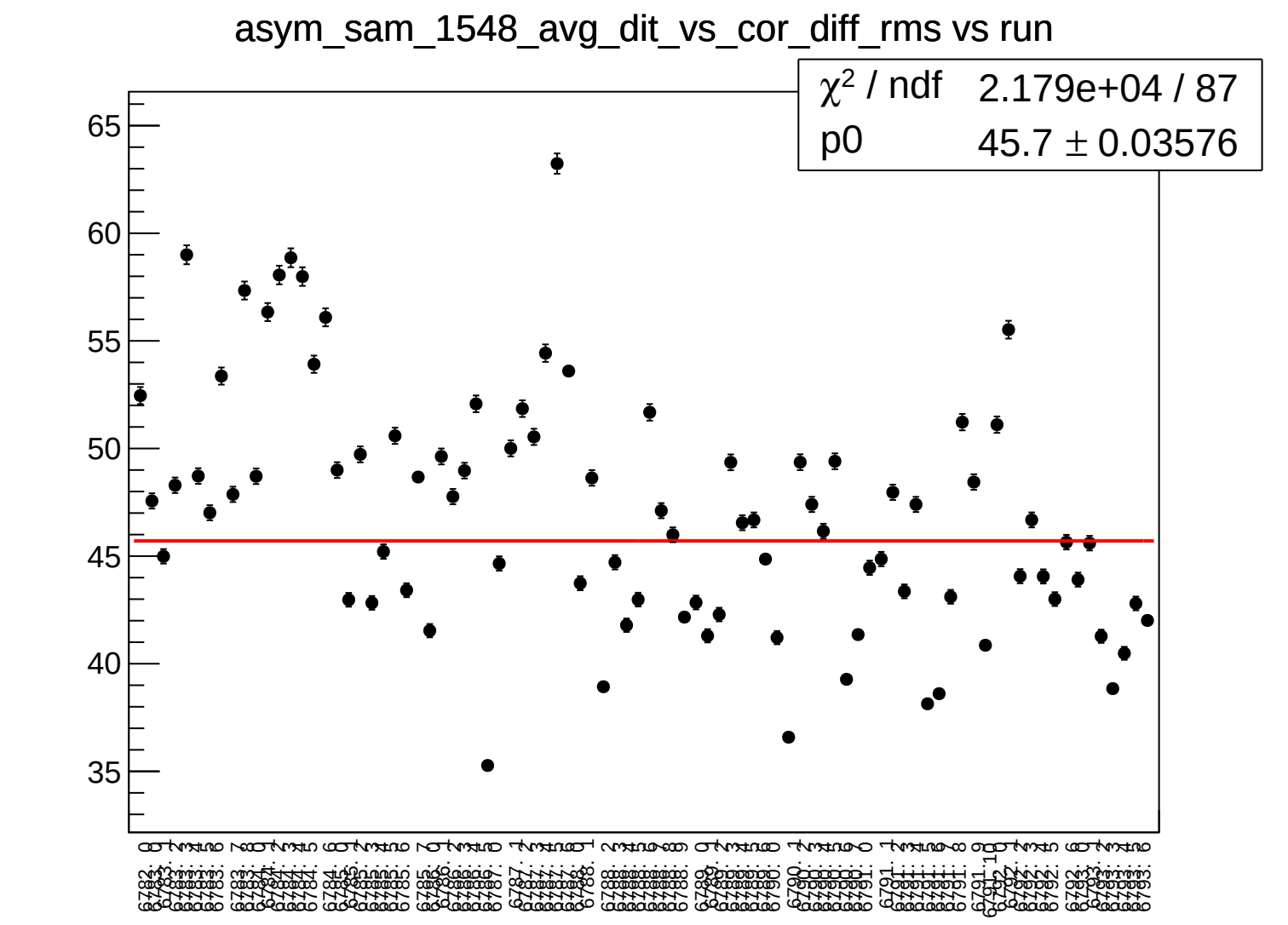

asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.015e+04 / 87
p0 734 ± 0.5723
900
850
800
750
700
650

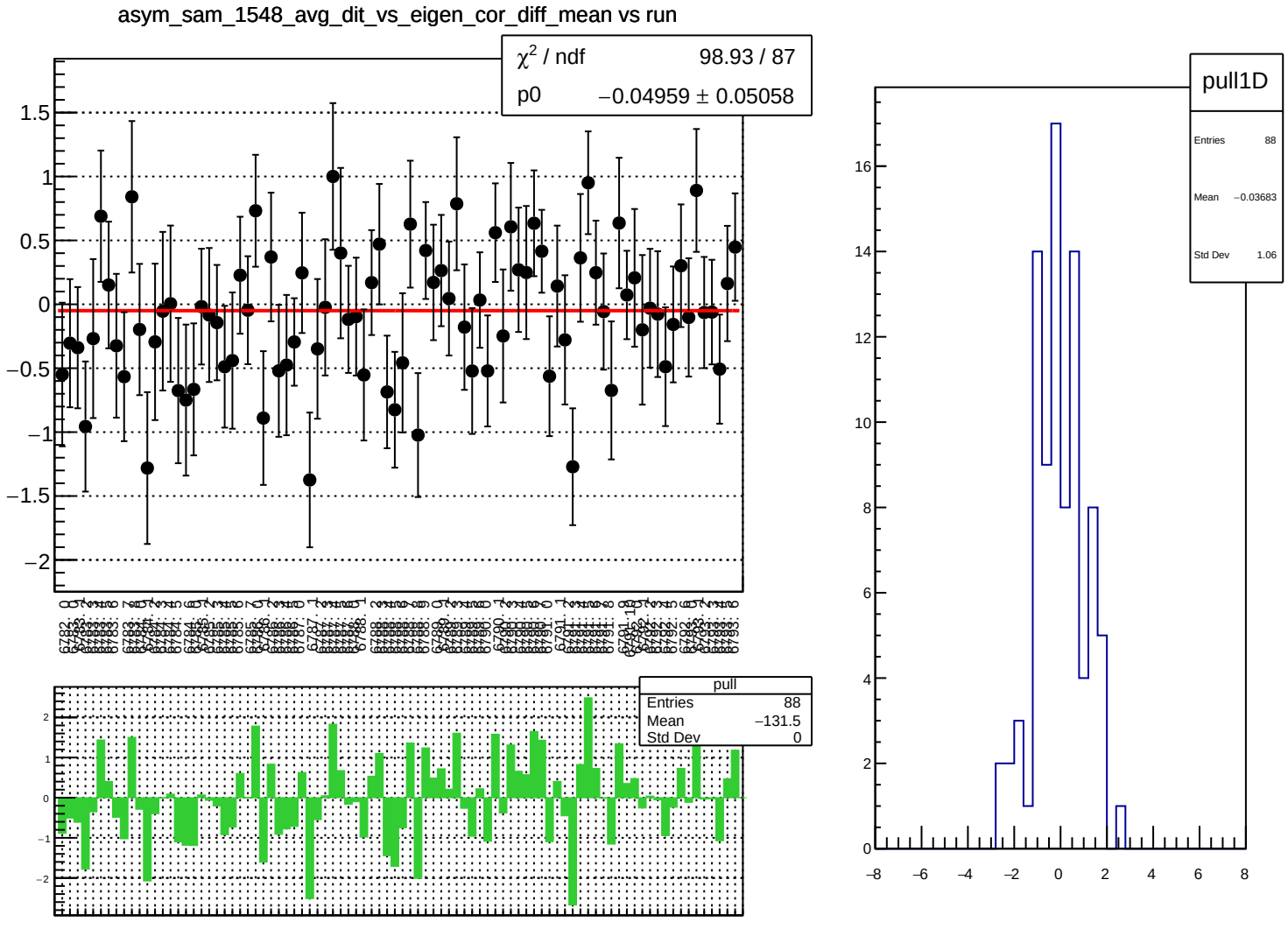

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.74 / 87
p0 4.631e−14 ± 3.262e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
pull
Entries 88
Mean 65.21
Std Dev 17.7
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1282
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

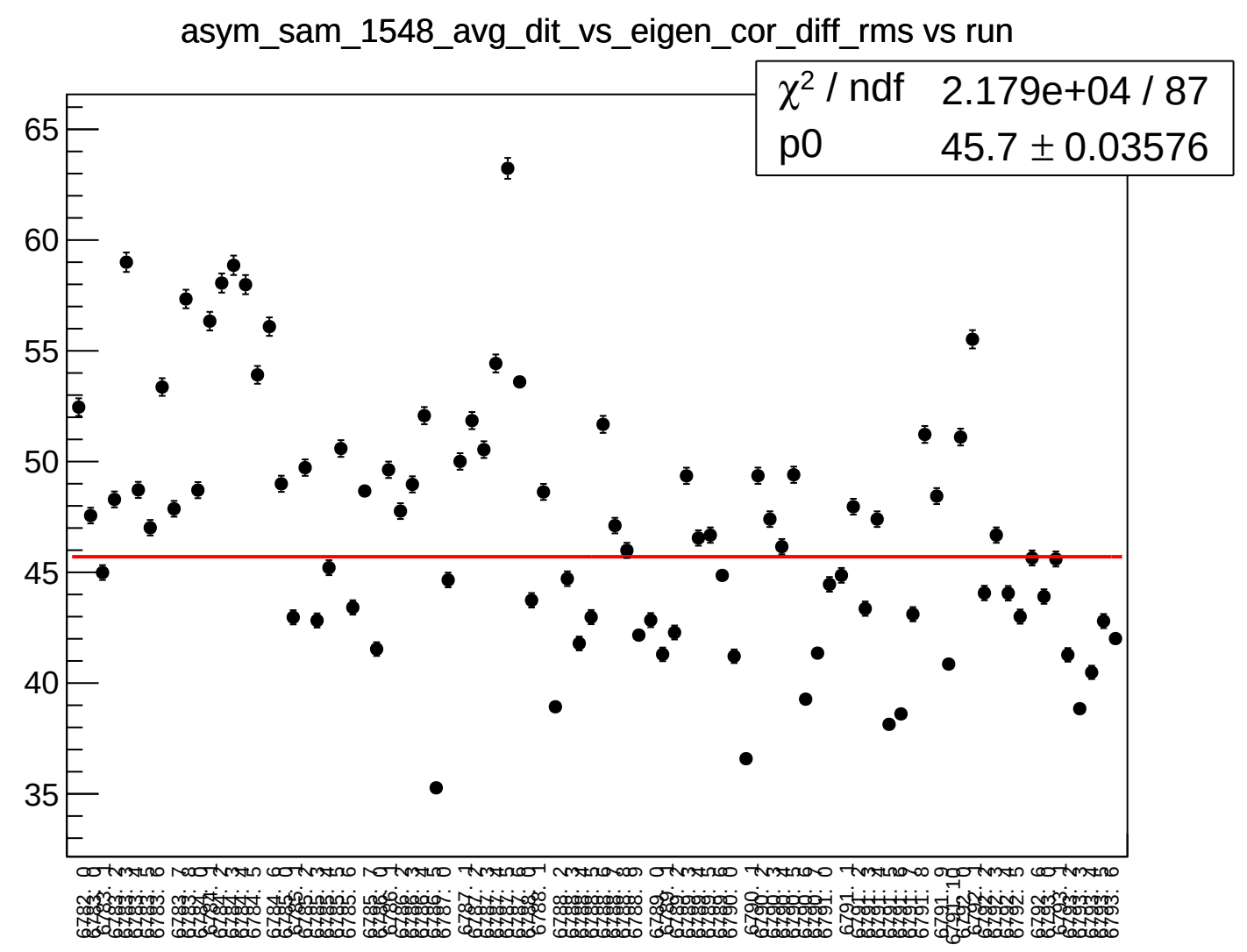

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 87
p0 1.797e−11 ± 2.307e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

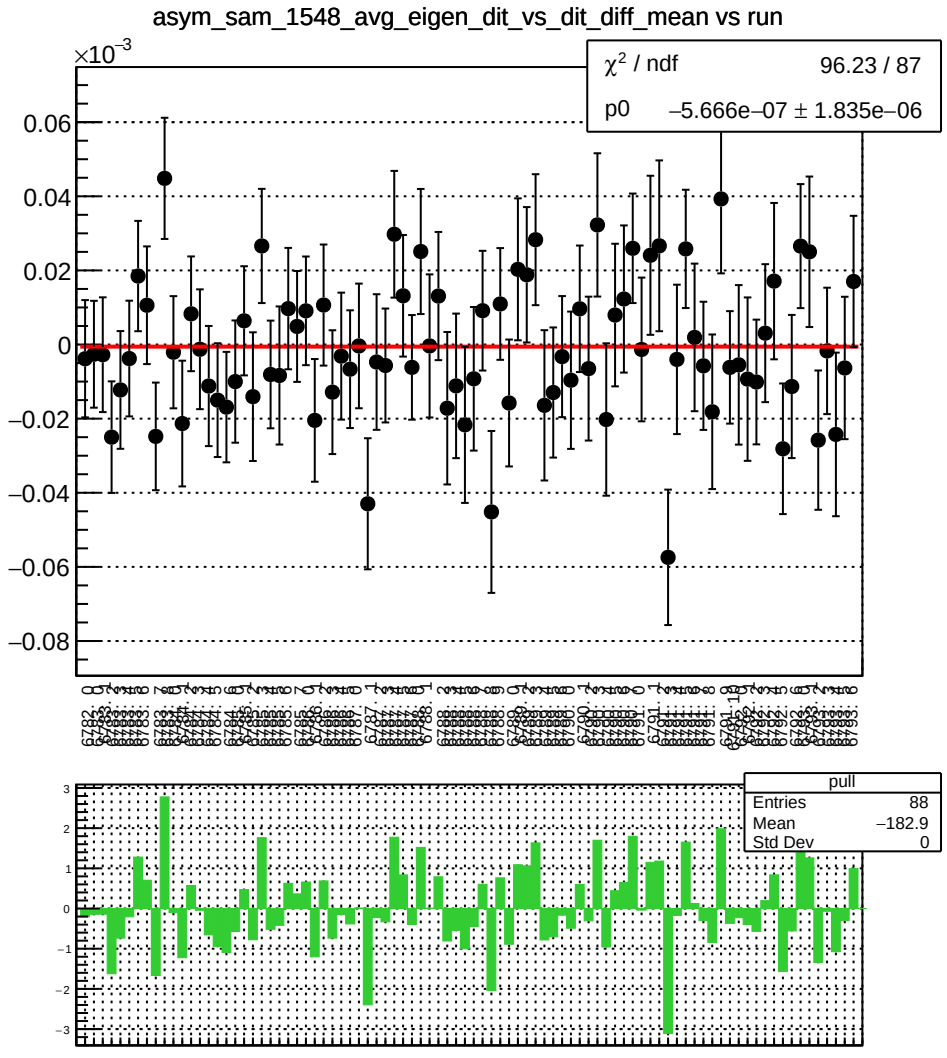

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.93 / 87
p0 −0.04959 ± 0.05058
pull
Entries 88
Mean −131.5
Std Dev 0

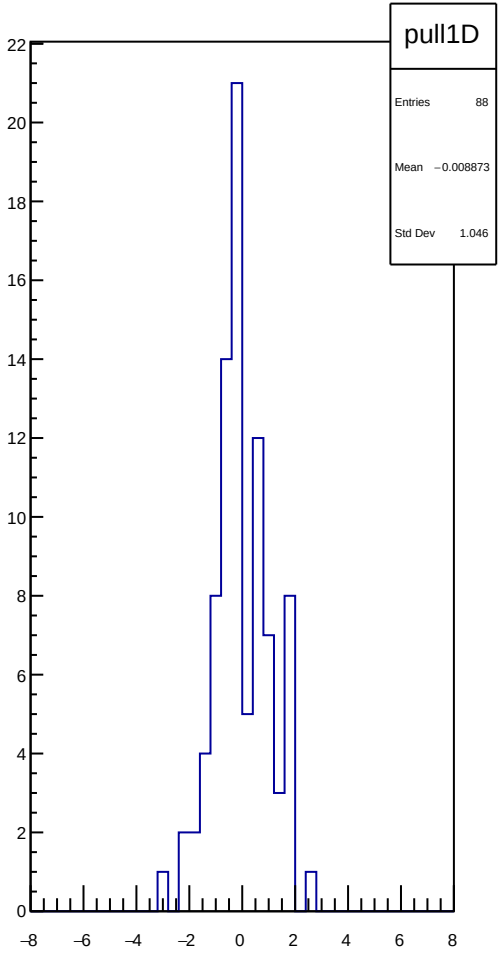

pull1D
Entries 88
Mean −0.03683
Std Dev 1.06

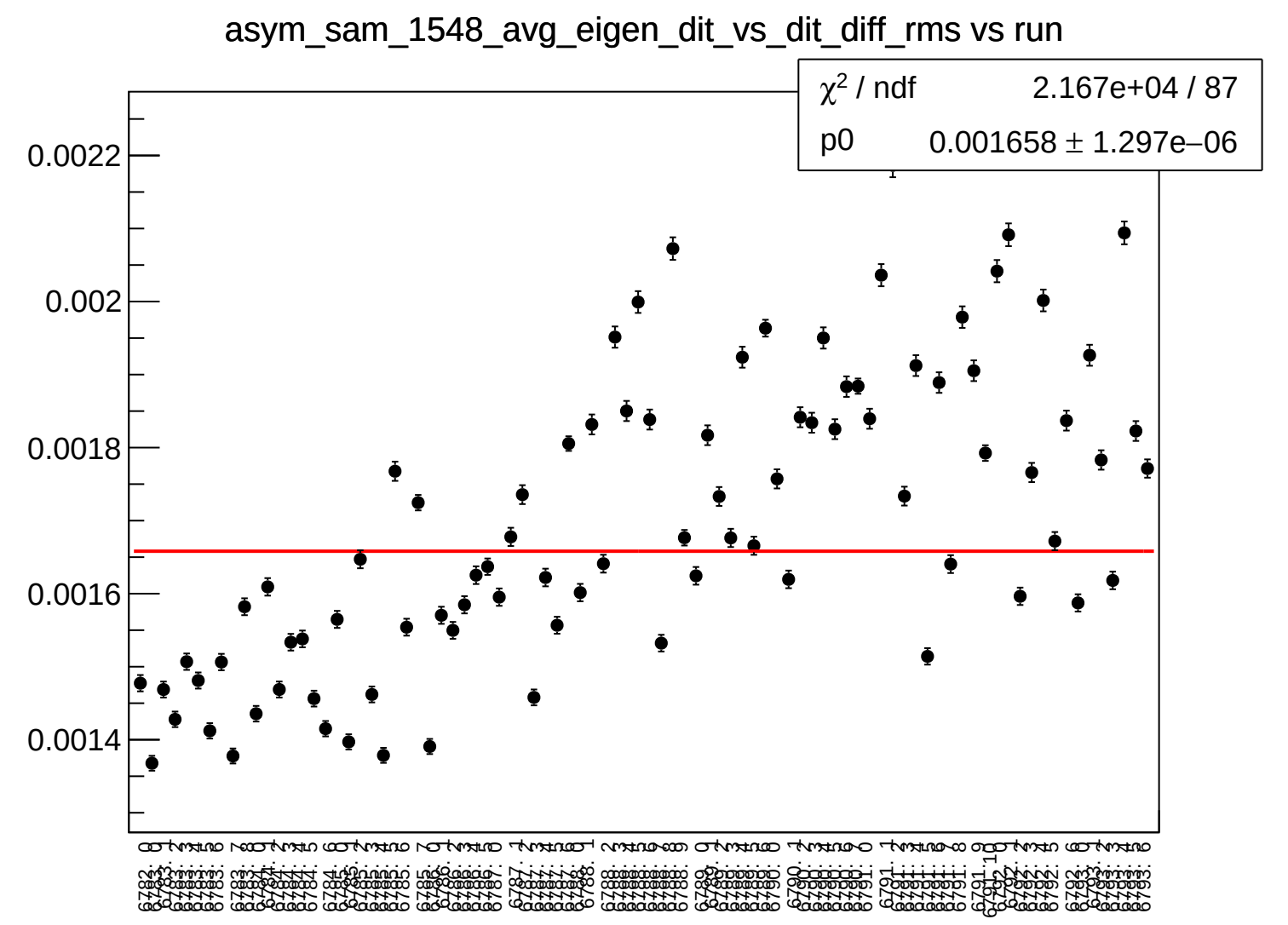

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.179e+04 / 87
p0 45.7 ± 0.03576
65
60
55
50
45
40
35

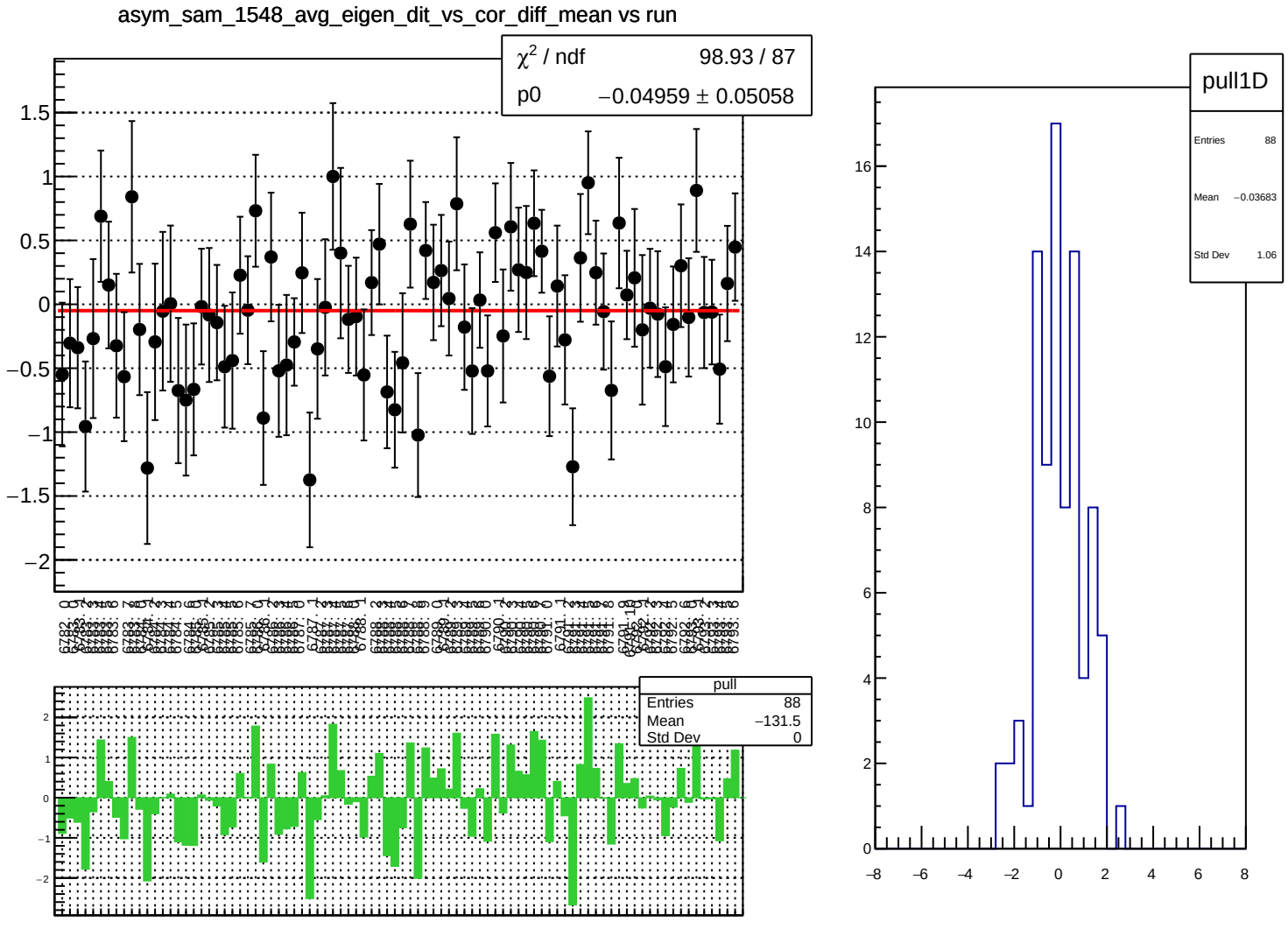

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.93 / 87
p0 −0.04959 ± 0.05058
pull
Entries 88
Mean −131.5
Std Dev 0
pull1D
Entries 88
Mean −0.03683
Std Dev 1.06

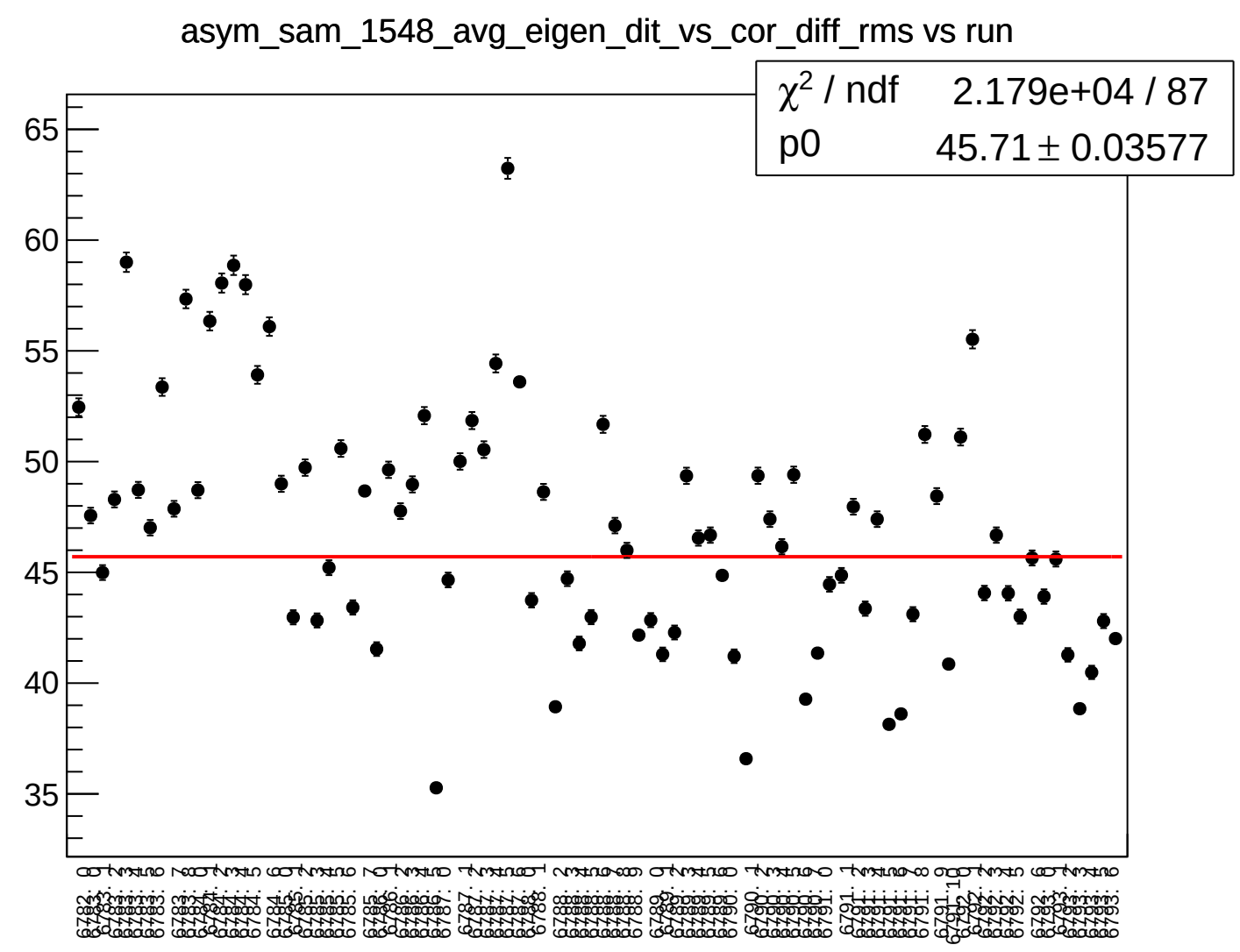

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.179e+04 / 87
p0 45.7 ± 0.03576
65
60
55
50
45
40
35

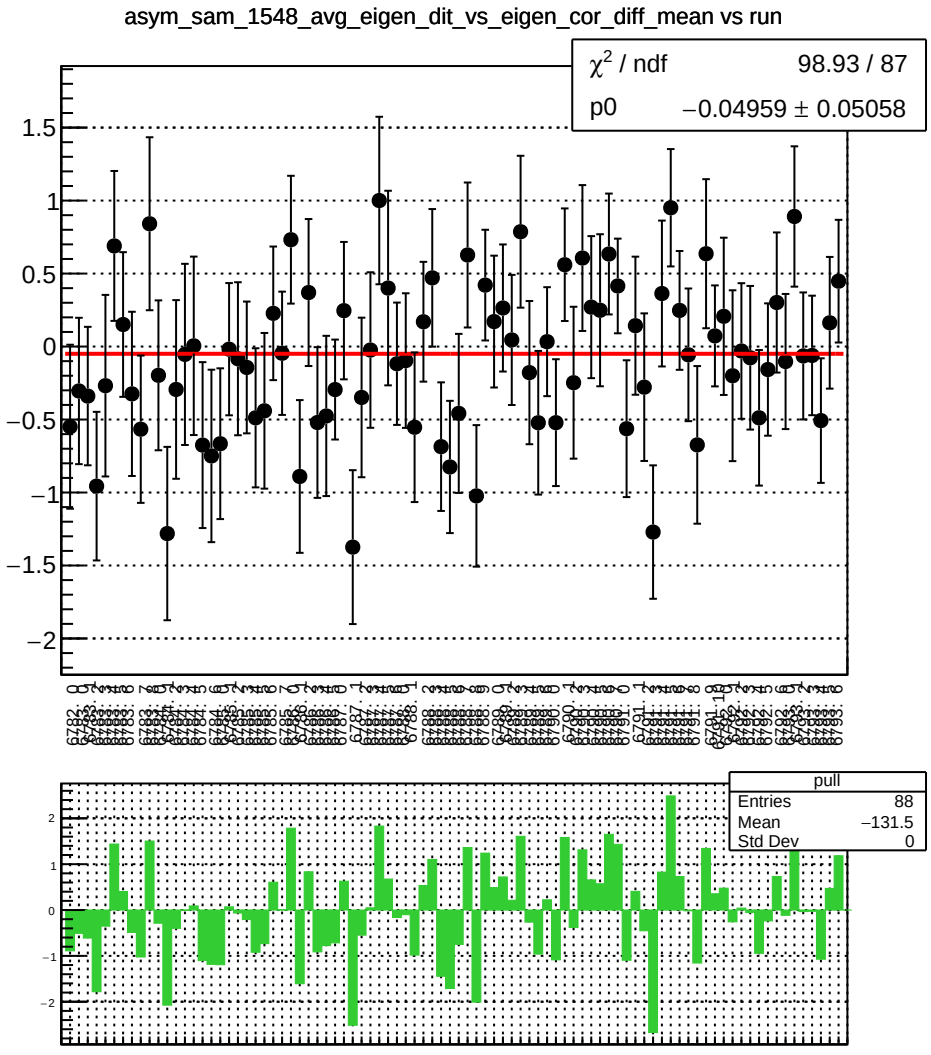

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.23 / 87
p0 −5.666e−07 ± 1.835e−06
pull
Entries 88
Mean −182.9
Std Dev 0

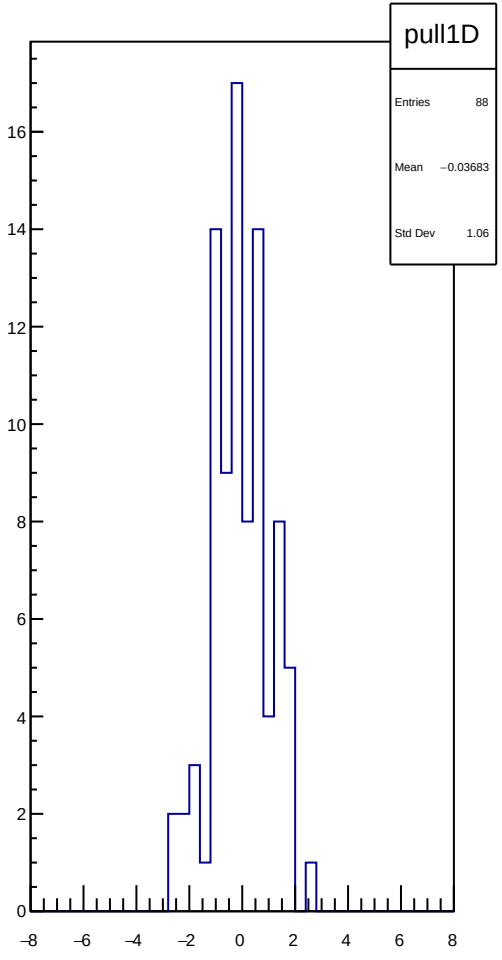

pull1D
Entries 88
Mean −0.008873
Std Dev 1.046

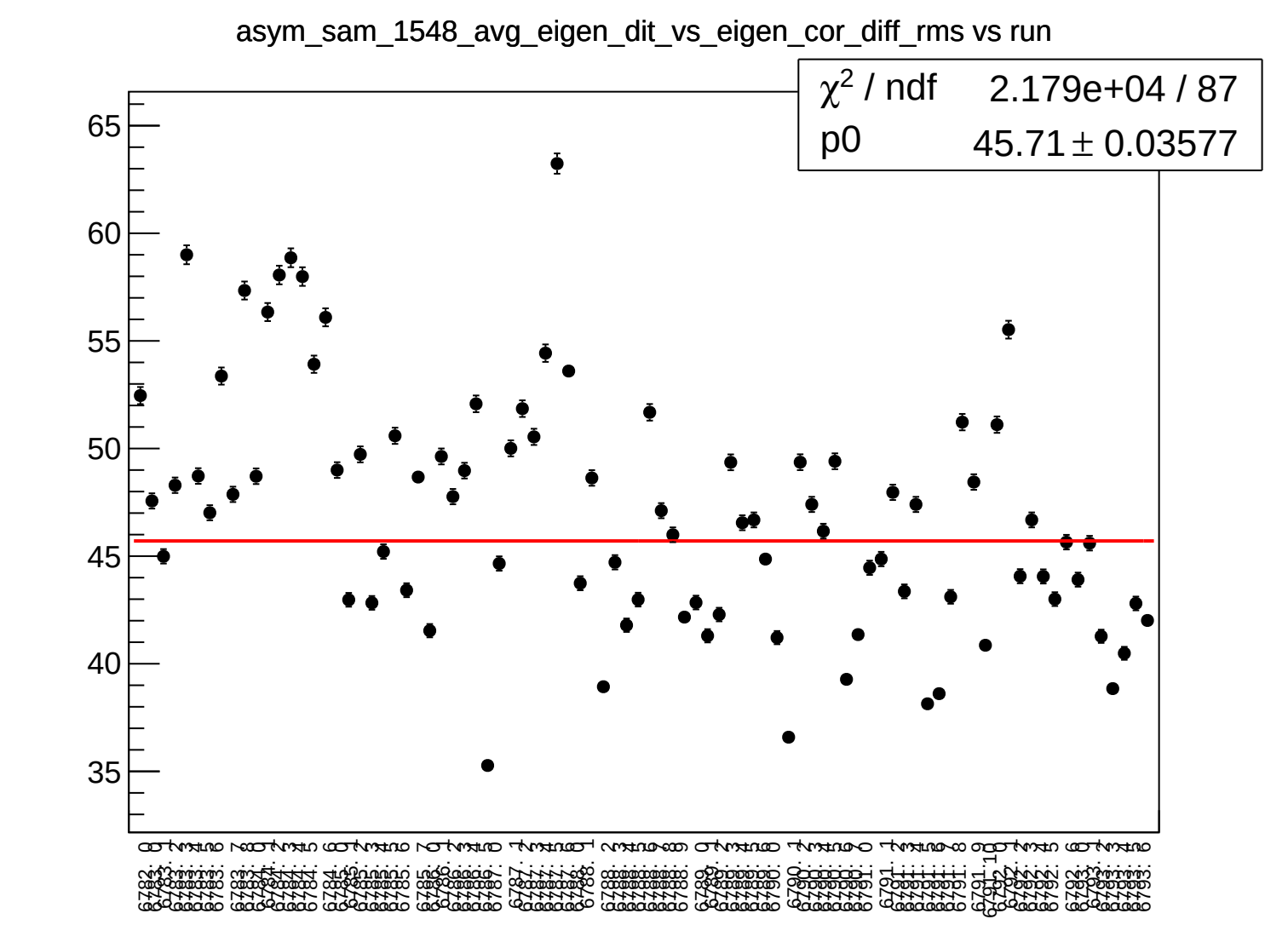

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.167e+04 / 87
p0 0.001658 ± 1.297e−06
0.0022
0.002
0.0018
0.0016
0.0014

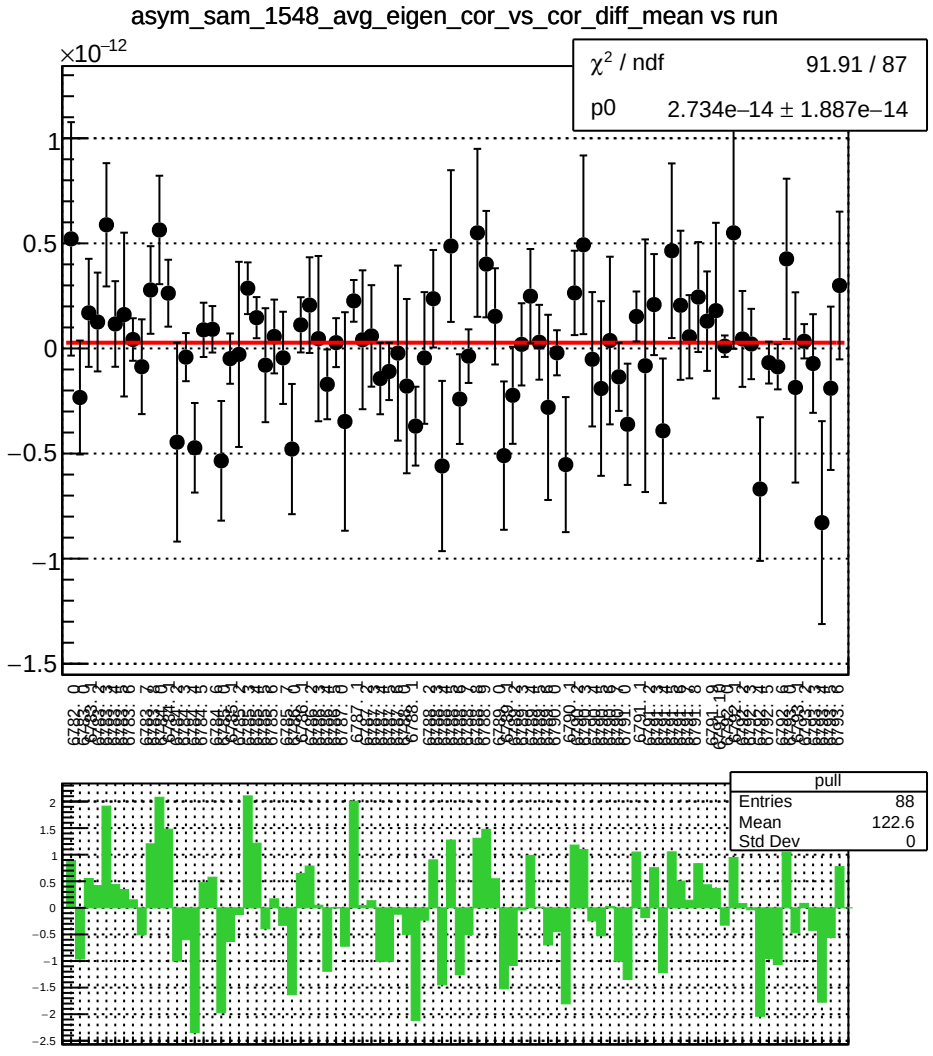

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.93 / 87
p0 −0.04959 ± 0.05058
pull
Entries 88
Mean −131.5
Std Dev 0
pull1D
Entries 88
Mean −0.03683
Std Dev 1.06

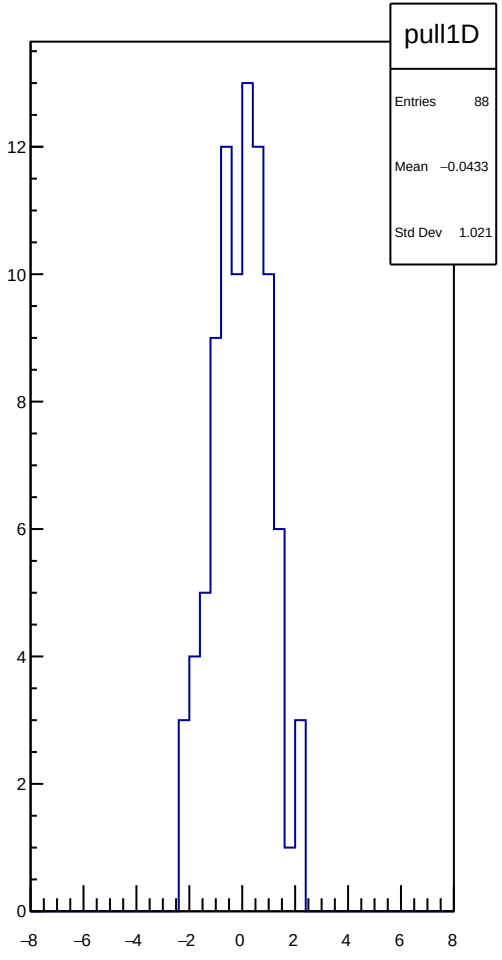

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.179e+04 / 87
p0 45.71 ± 0.03577
65
60
55
50
45
40
35

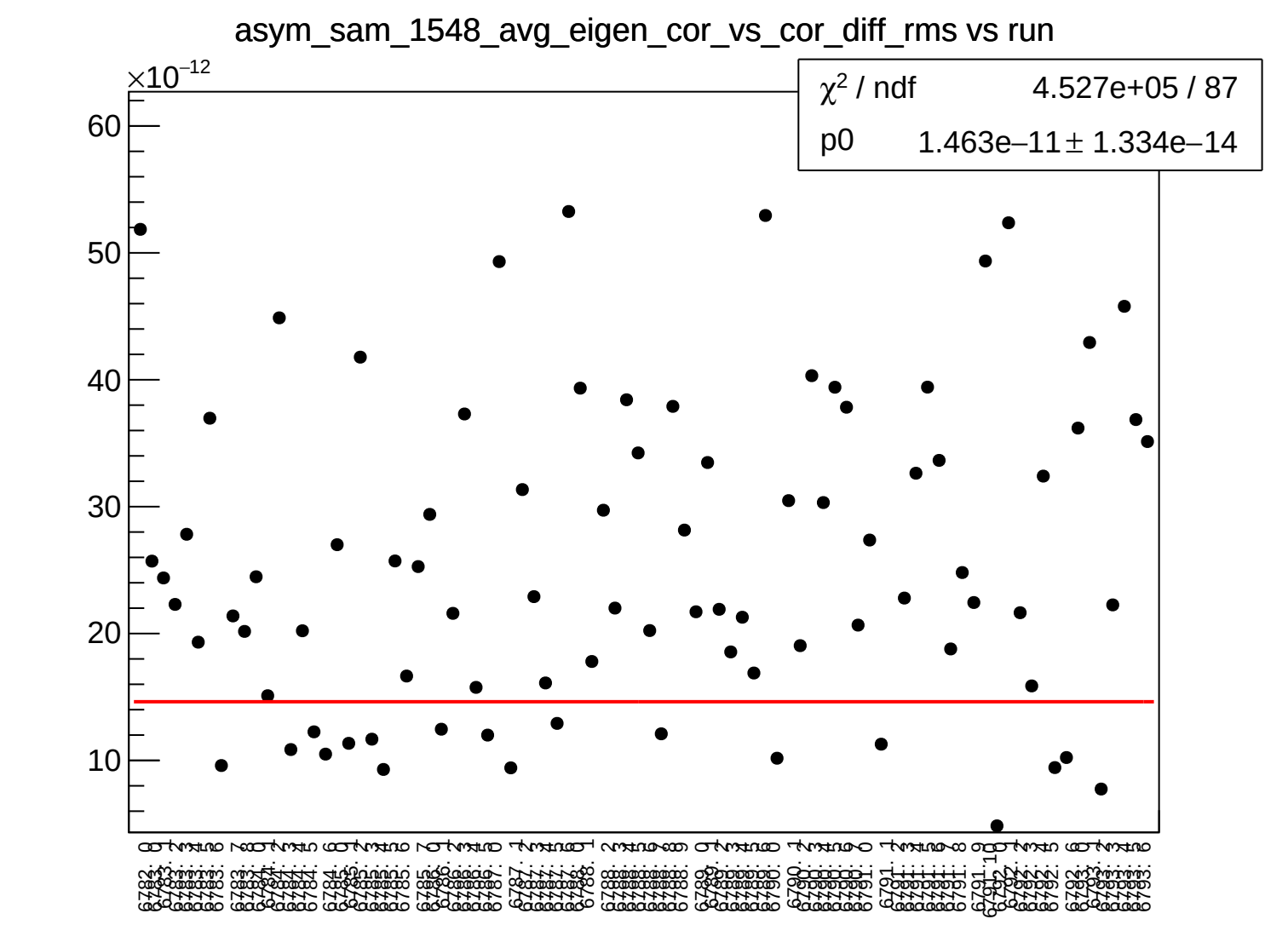

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.93 / 87
p0 −0.04959 ± 0.05058
pull
Entries 88
Mean −131.5
Std Dev 0

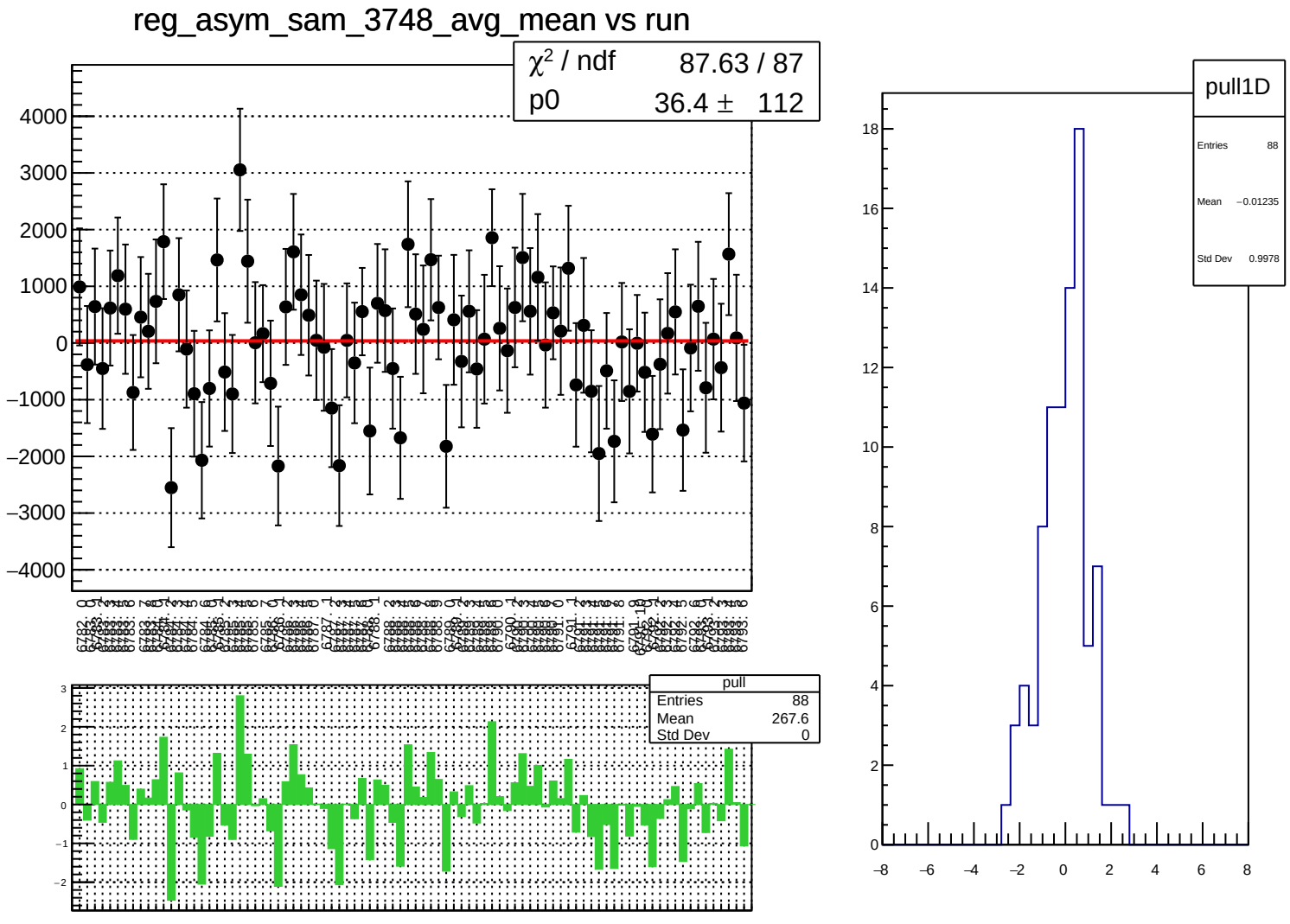

pull1D
Entries 88
Mean −0.03683
Std Dev 1.06

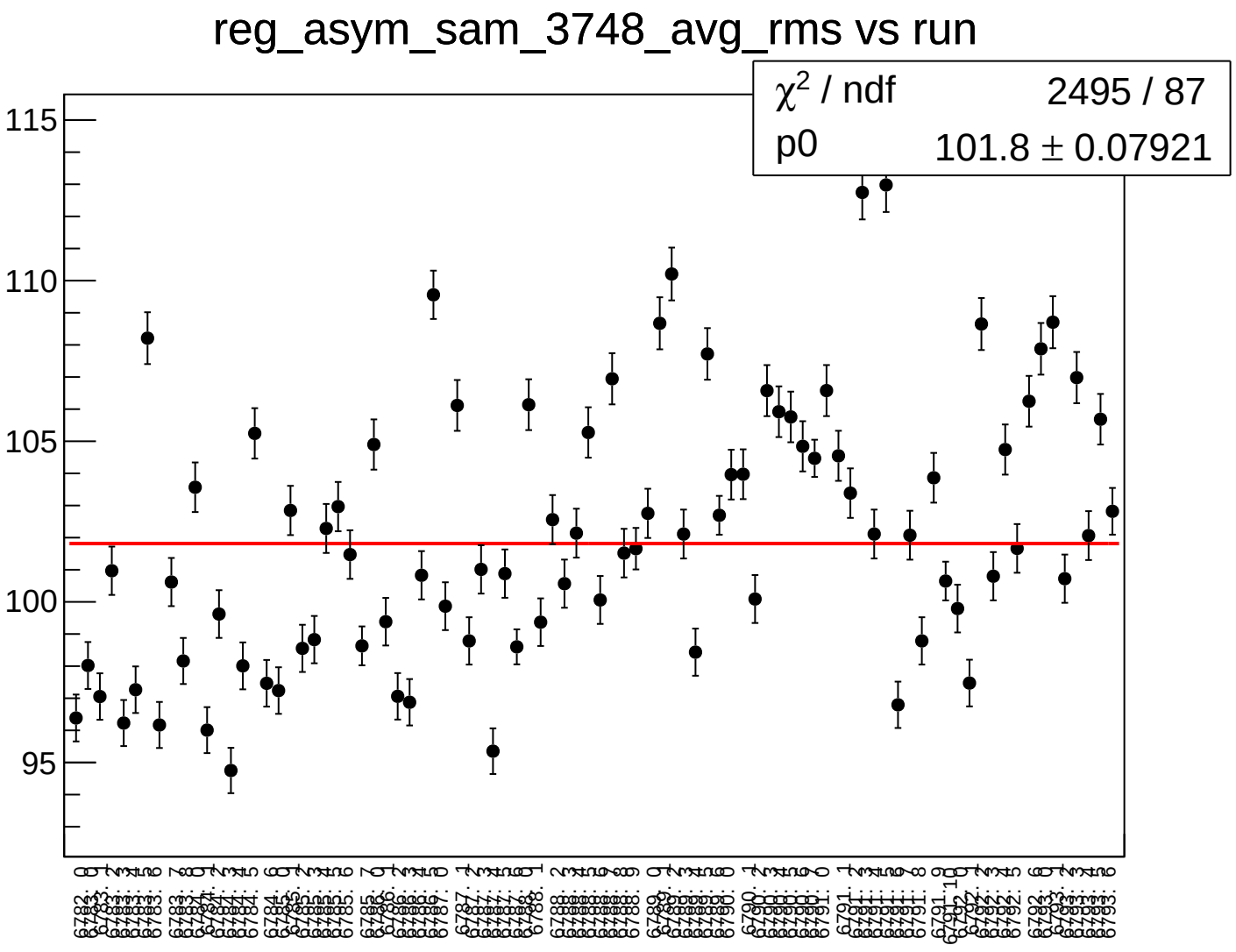

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.179e+04 / 87
p0 45.71 ± 0.03577
65
60
55
50
45
40
35

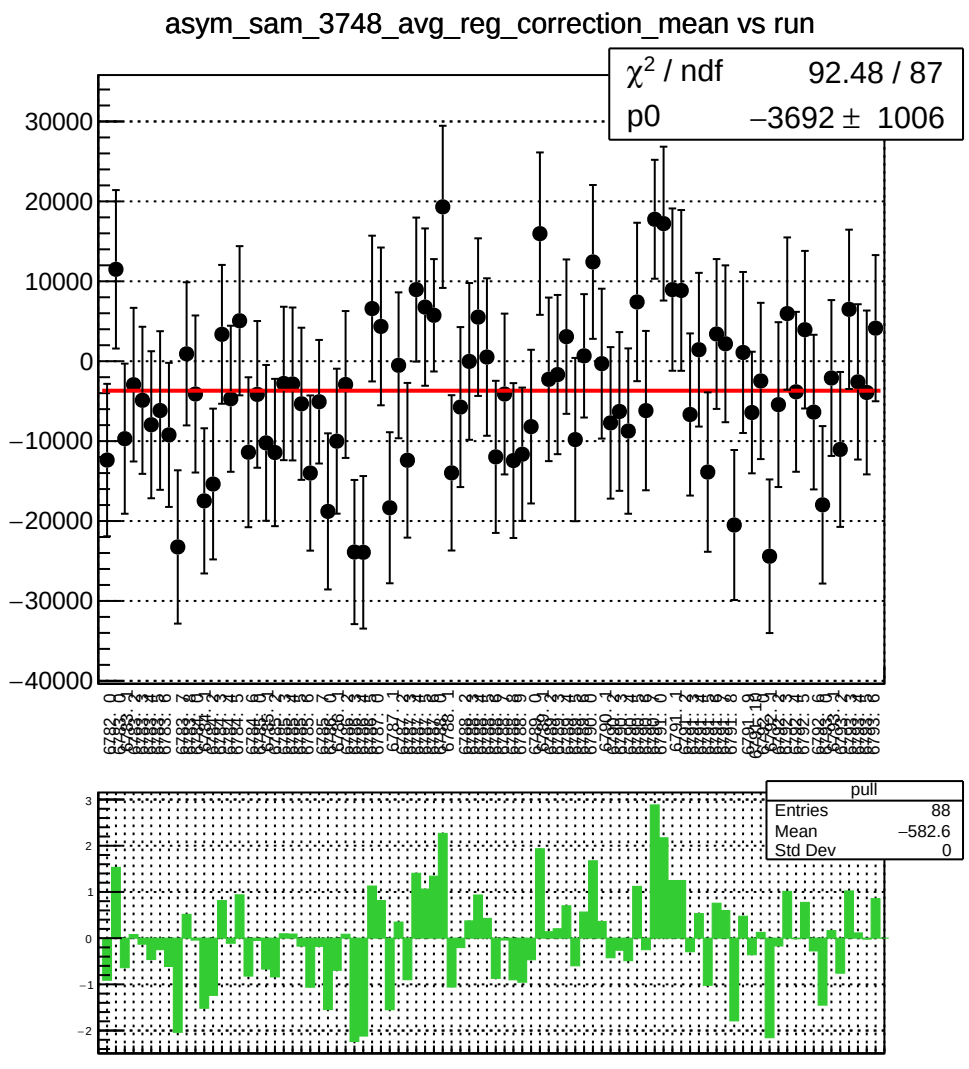

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.91 / 87
p0 2.734e−14 ± 1.887e−14
pull
Entries 88
Mean 122.6
Std Dev 0

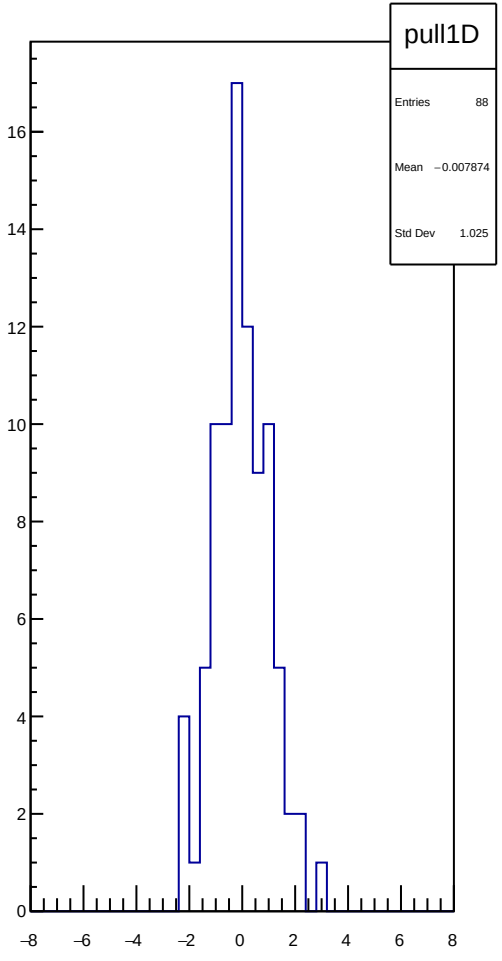

pull1D
Entries 88
Mean −0.0433
Std Dev 1.021

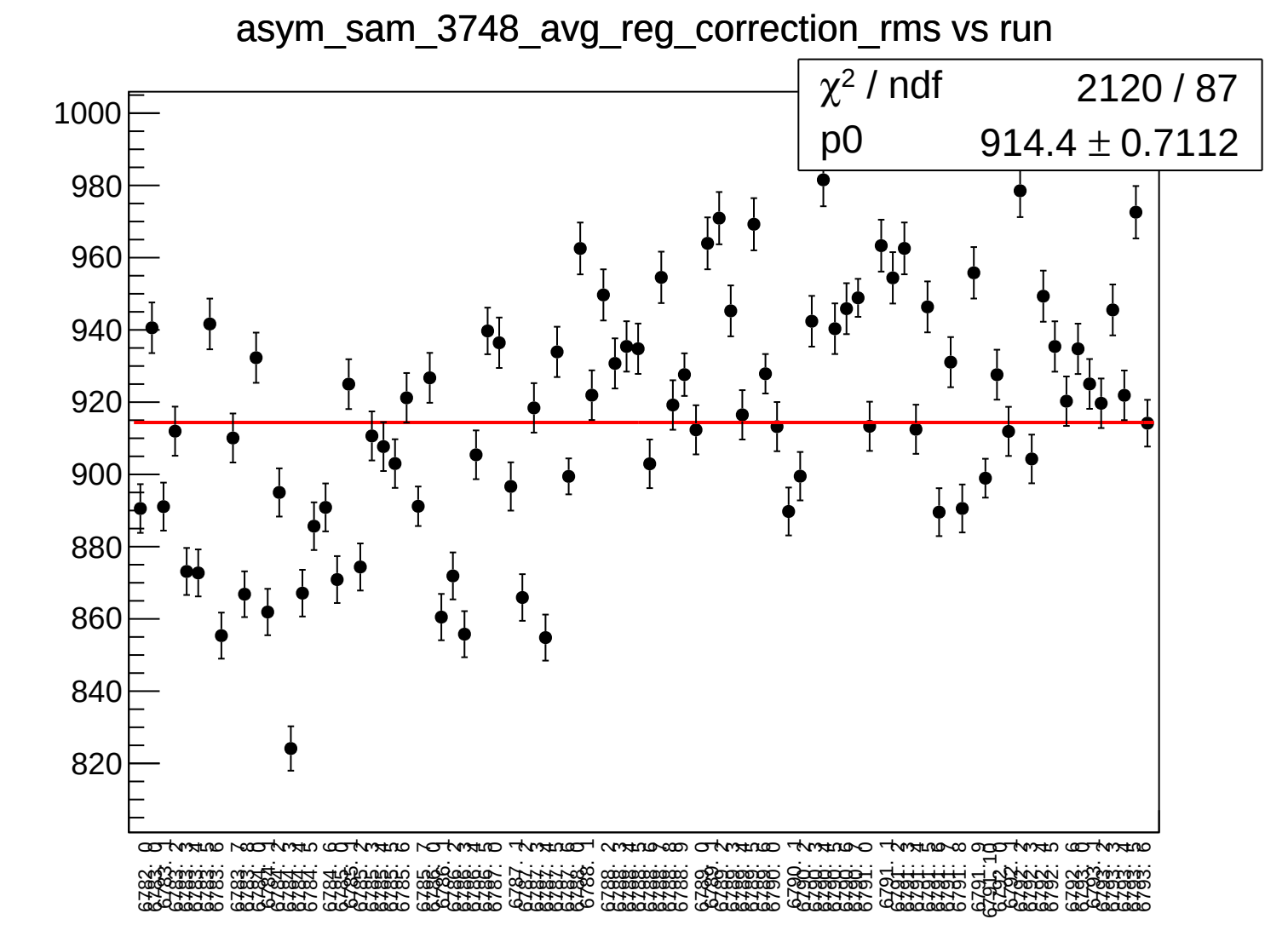

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.527e+05 / 87
p0 1.463e−11 ± 1.334e−14
60
50
40
30
20
10

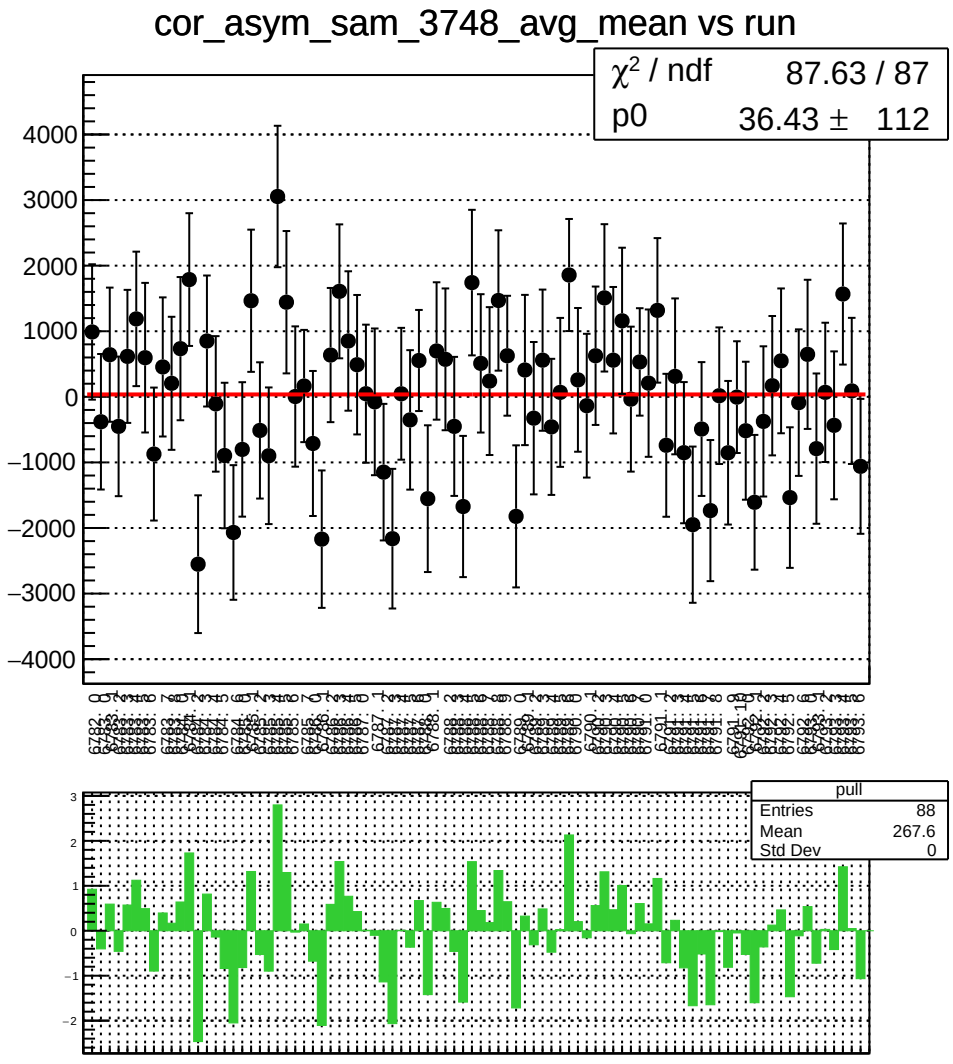

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 87.63 / 87
p0 36.4 ± 112
pull
Entries 88
Mean 267.6
Std Dev 0
pull1D
Entries 88
Mean −0.01235
Std Dev 0.9978

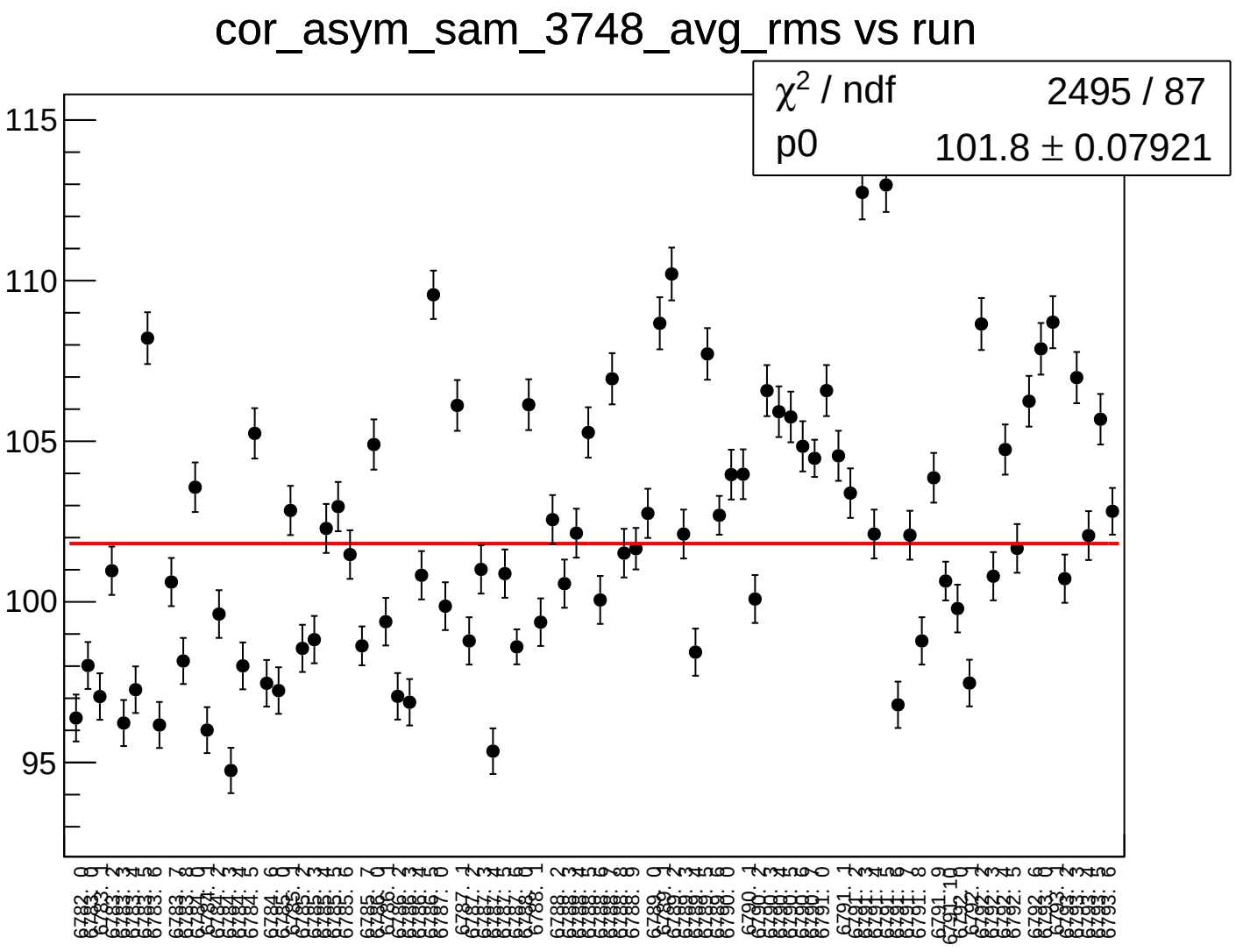

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2495 / 87
p0 101.8 ± 0.07921
115
110
105
100
95

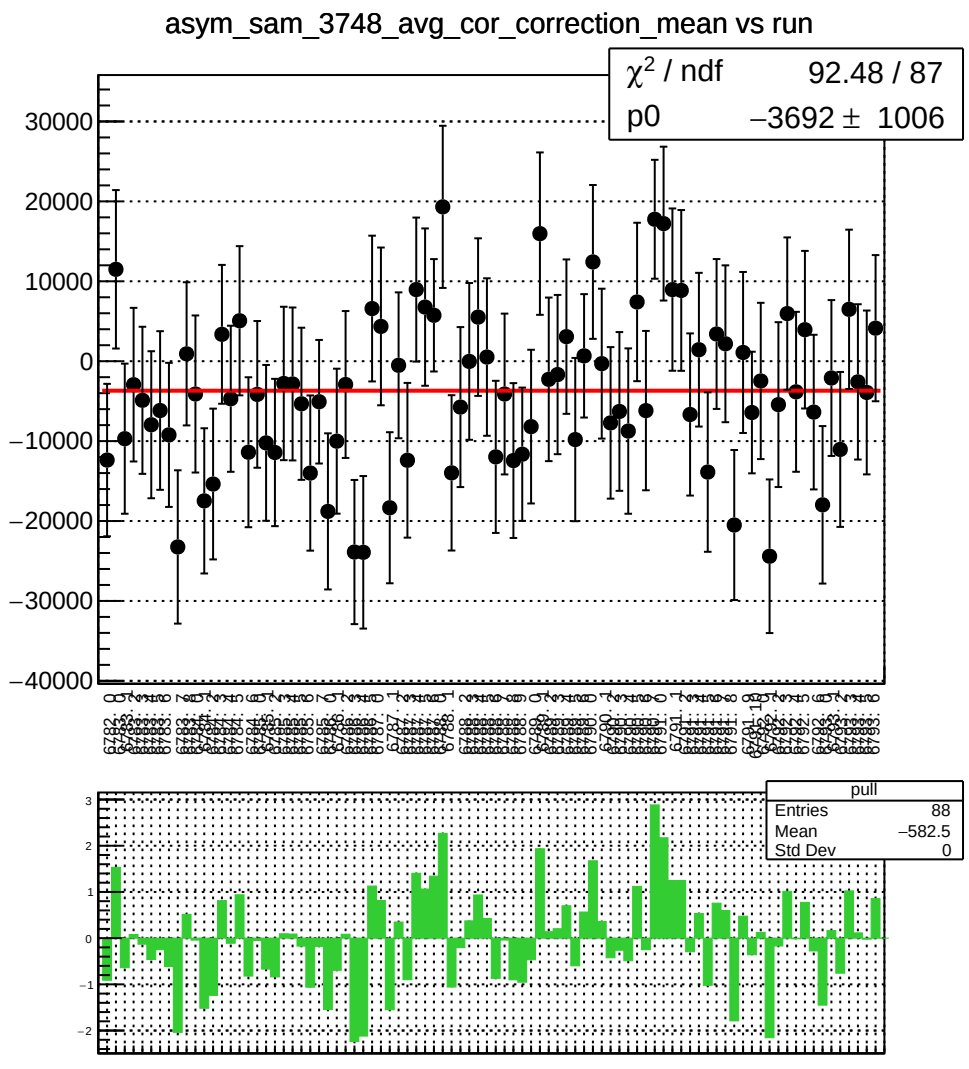

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 92.48 / 87
p0 −3692 ± 1006
pull
Entries 88
Mean −582.6
Std Dev 0

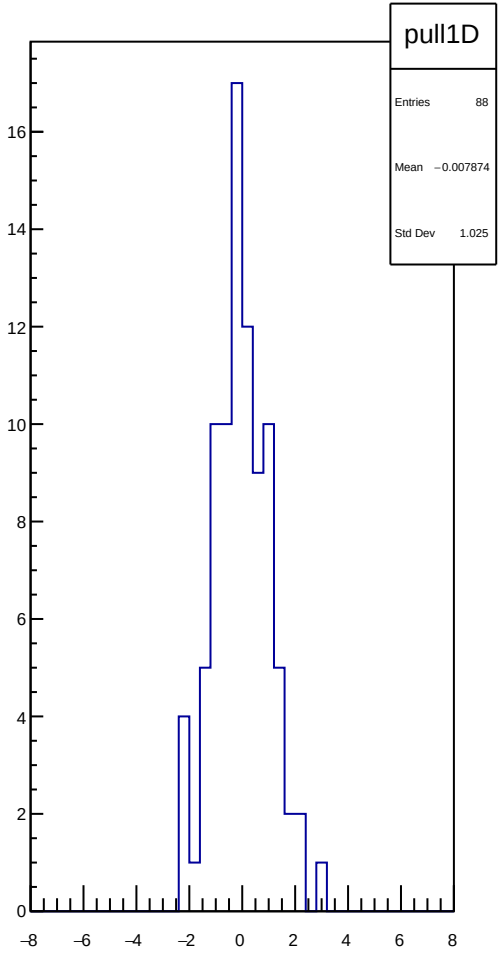

pull1D
Entries 88
Mean −0.007874
Std Dev 1.025

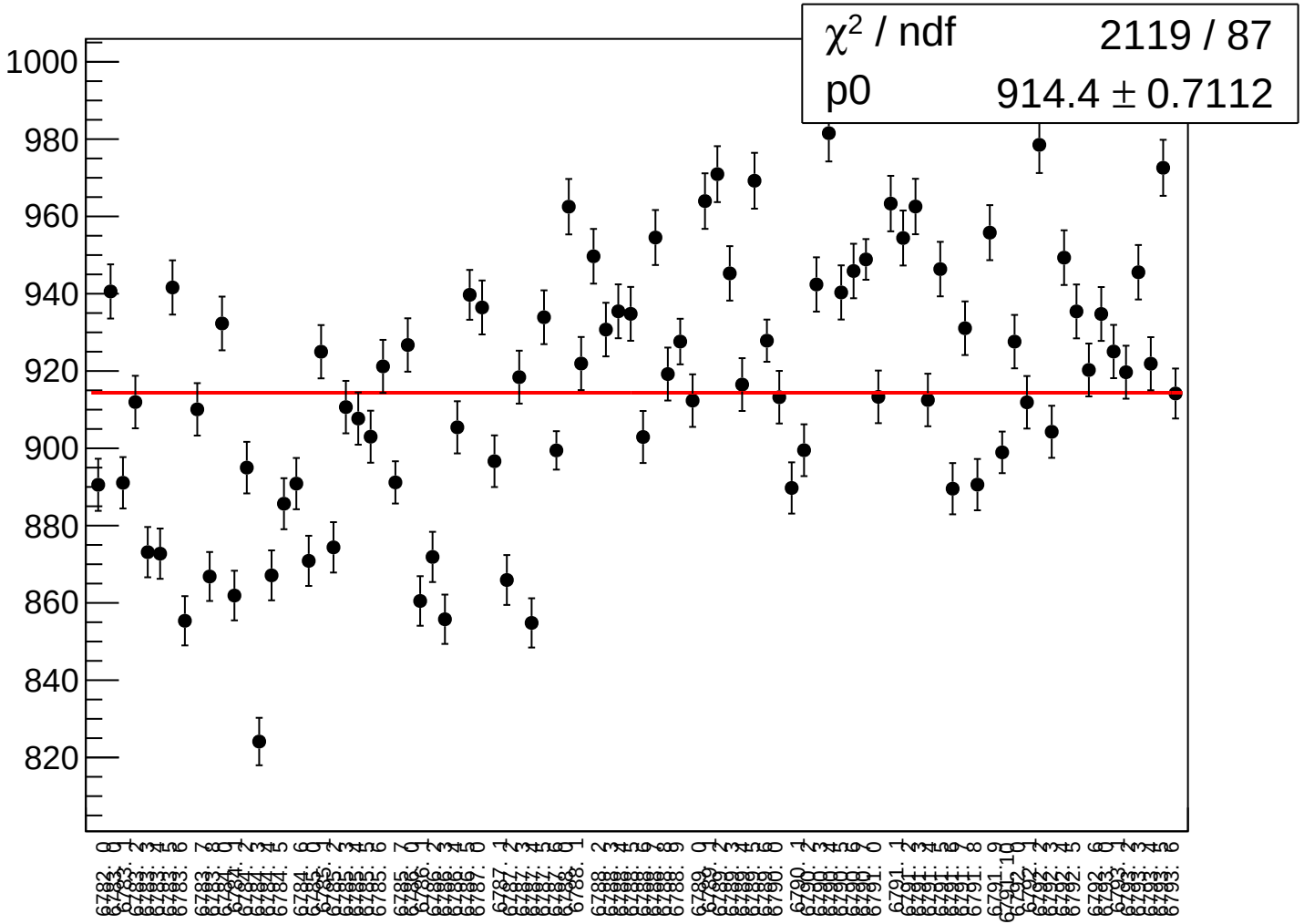

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2120 / 87
p0 914.4 ± 0.7112
1000
980
960
940
920
900
880
860
840
820

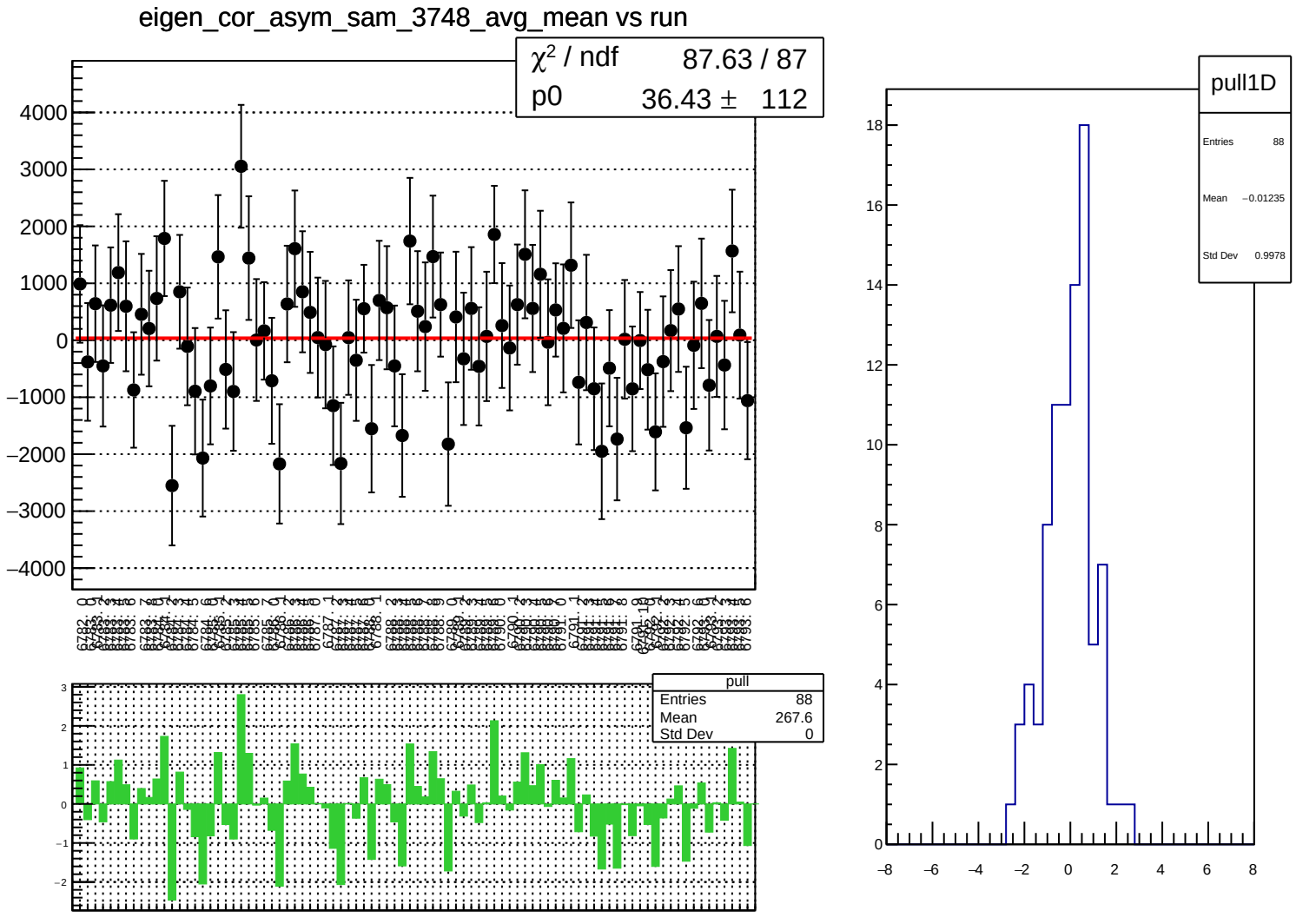

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 87.63 / 87
p0 36.43 ± 112
pull
Entries 88
Mean 267.6
Std Dev 0
pull1D
Entries 88
Mean −0.01235
Std Dev 0.9978

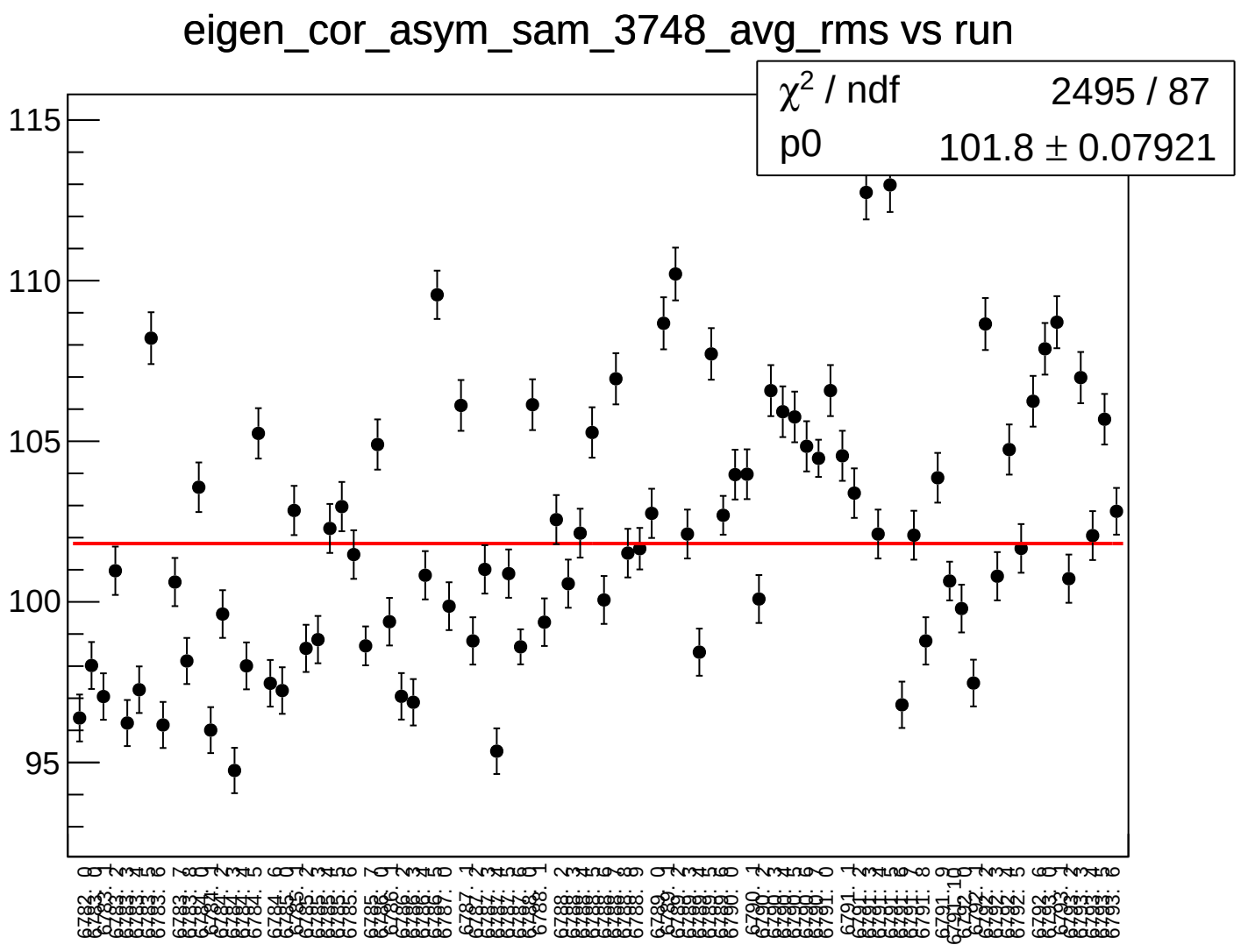

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2495 / 87
p0 101.8 ± 0.07921
115
110
105
100
95

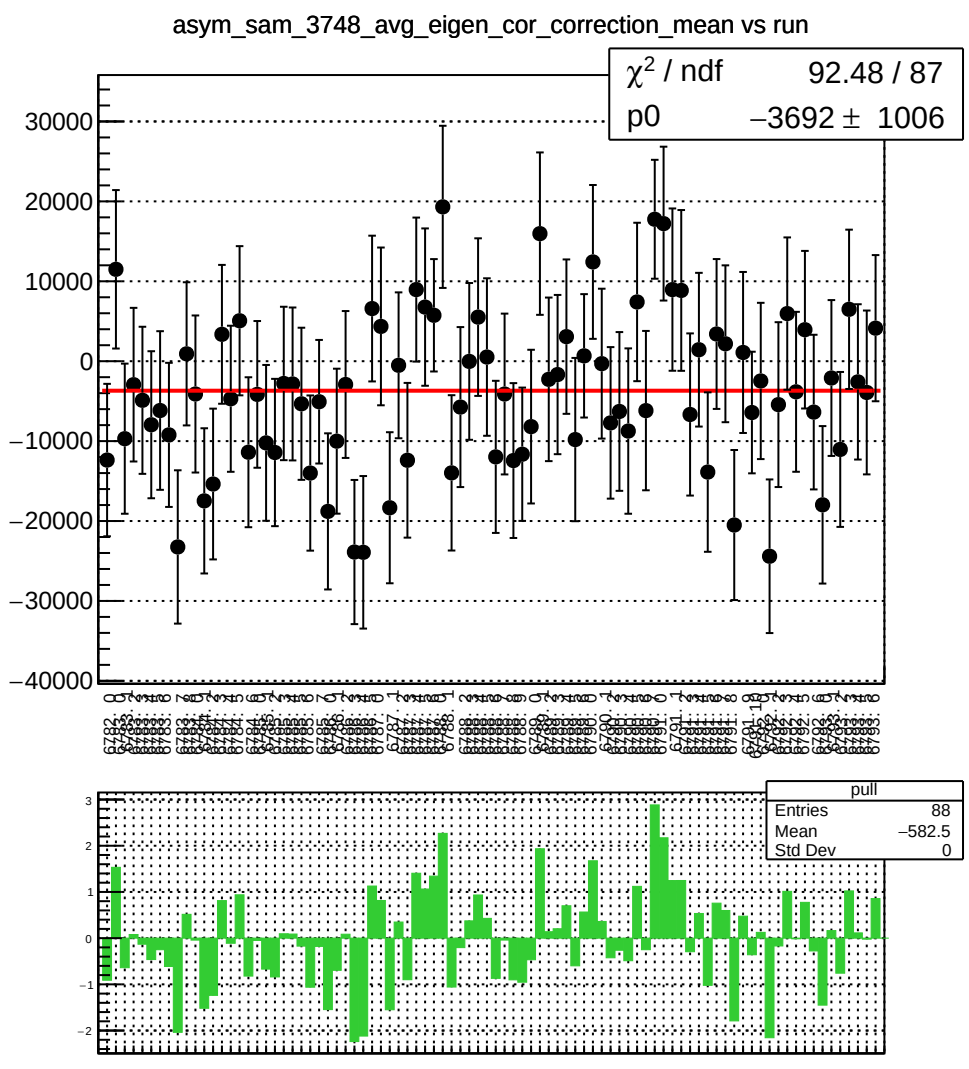

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 92.48 / 87
p0 −3692 ± 1006
pull
Entries 88
Mean −582.5
Std Dev 0

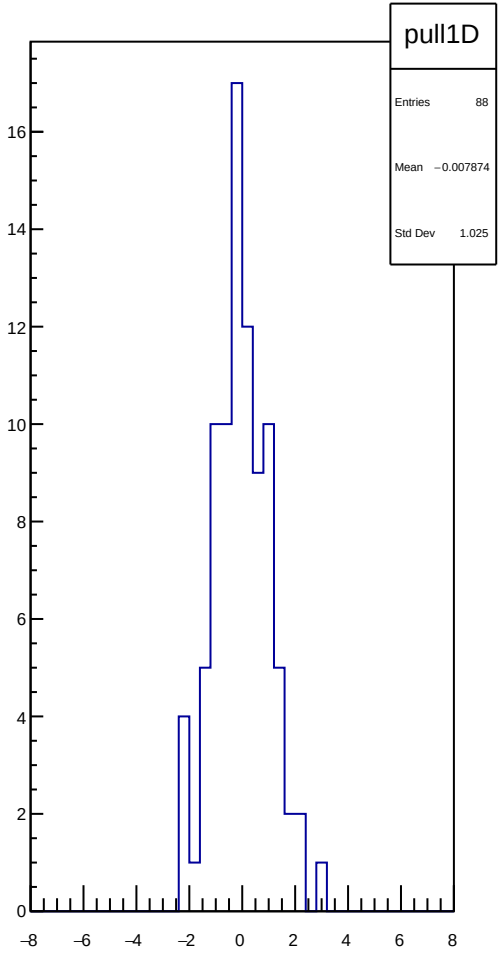

pull1D
Entries 88
Mean −0.007874
Std Dev 1.025

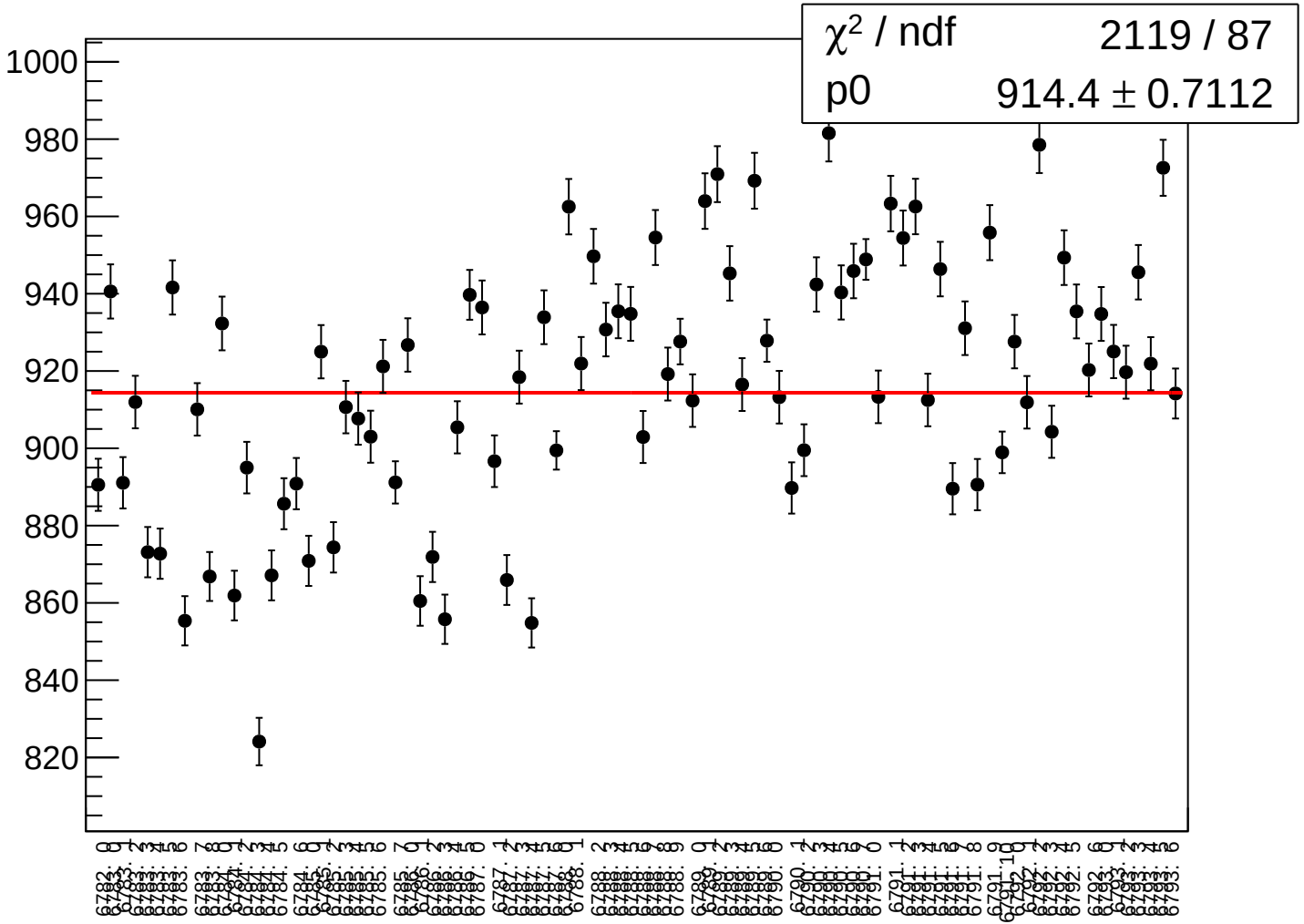

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2119 / 87
p0 914.4 ± 0.7112
1000
980
960
940
920
900
880
860
840
820

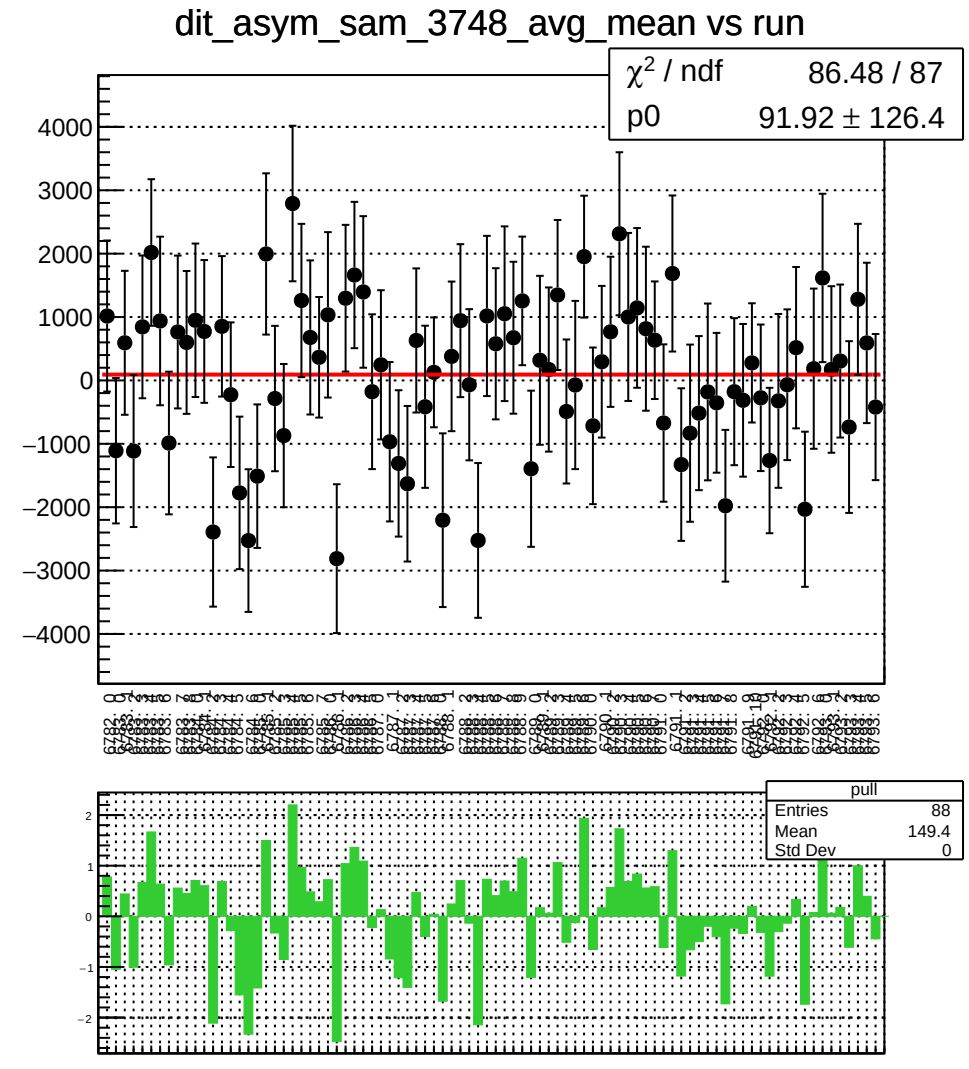

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 87.63 / 87
p0 36.43 ± 112
pull
Entries 88
Mean 267.6
Std Dev 0
pull1D
Entries 88
Mean −0.01235
Std Dev 0.9978

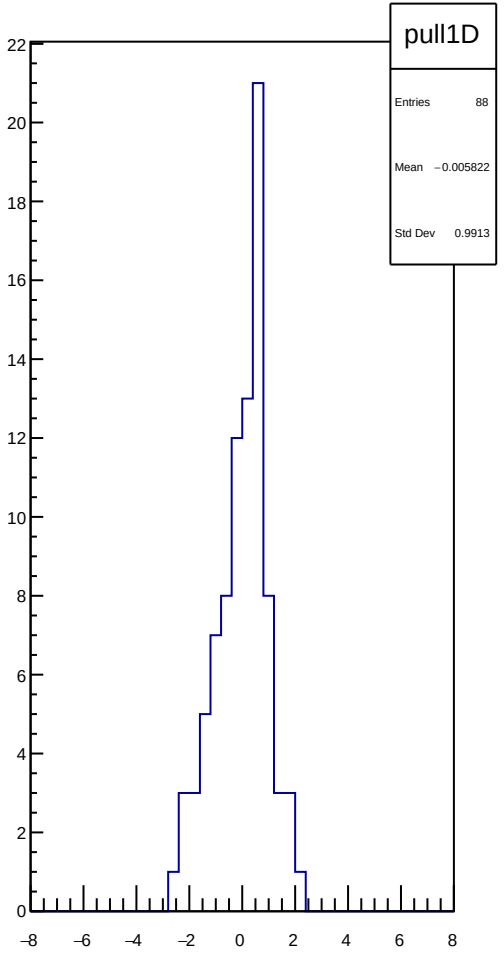

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2495 / 87
p0 101.8 ± 0.07921
115
110
105
100
95

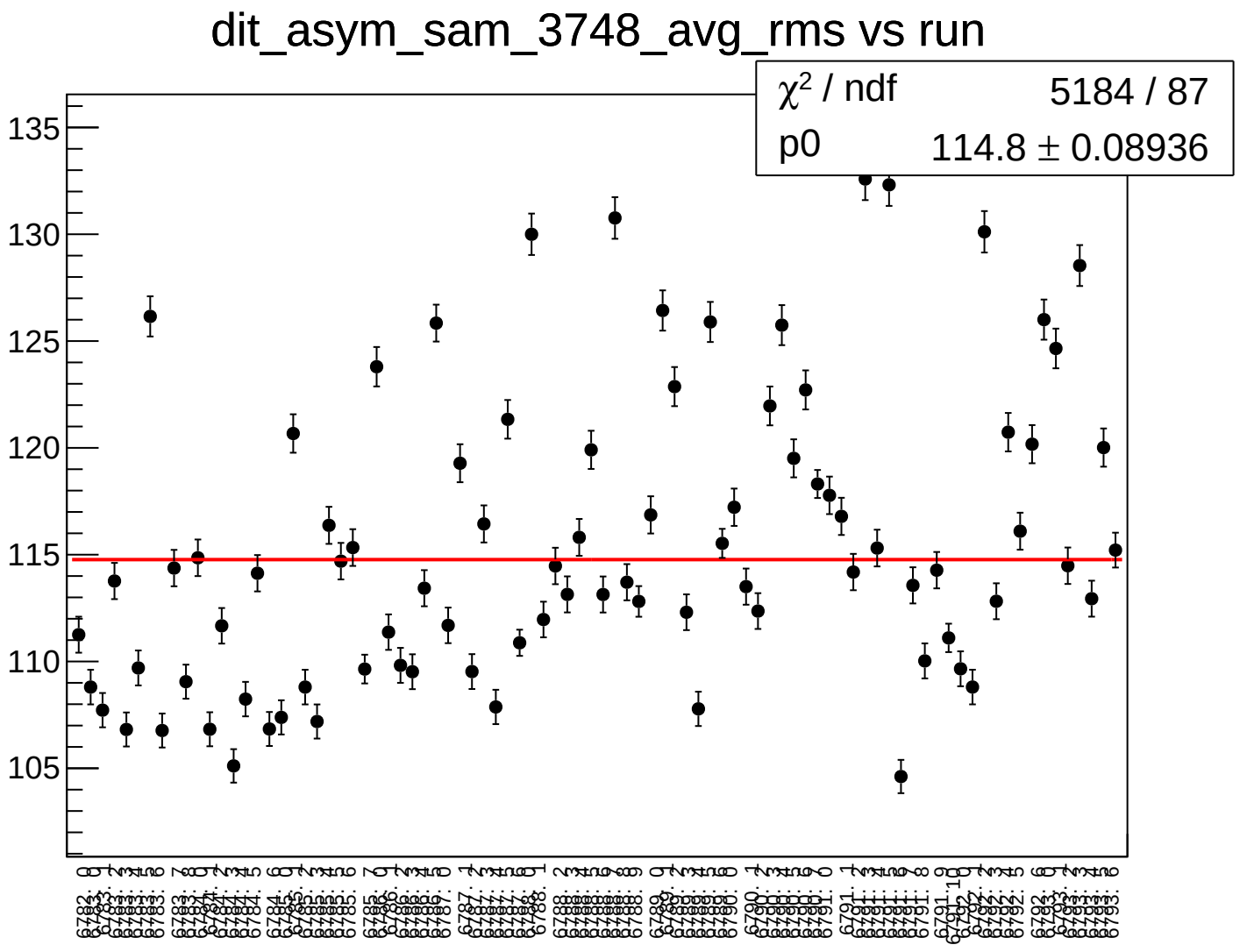

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.48 / 87
p0 −3692 ± 1006
pull
Entries 88
Mean −582.5
Std Dev 0

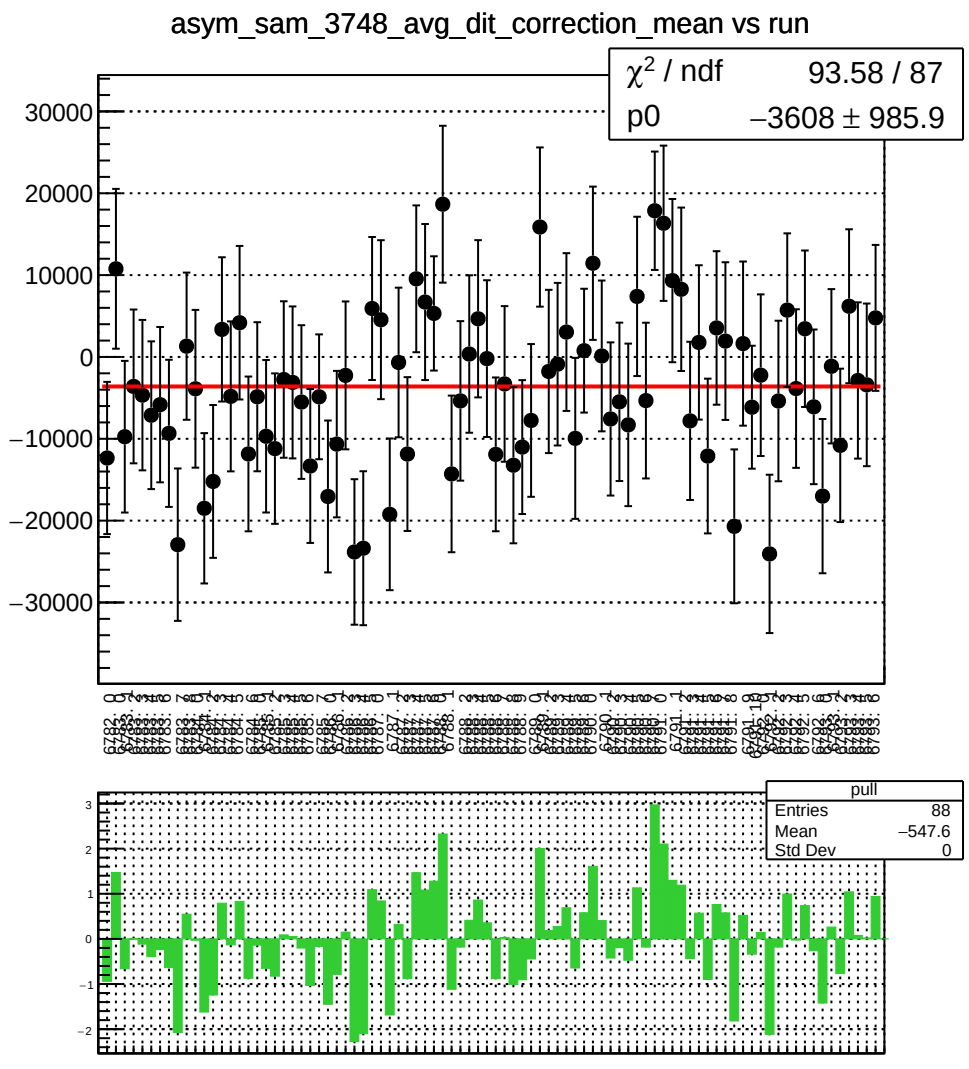

pull1D
Entries 88
Mean −0.007874
Std Dev 1.025

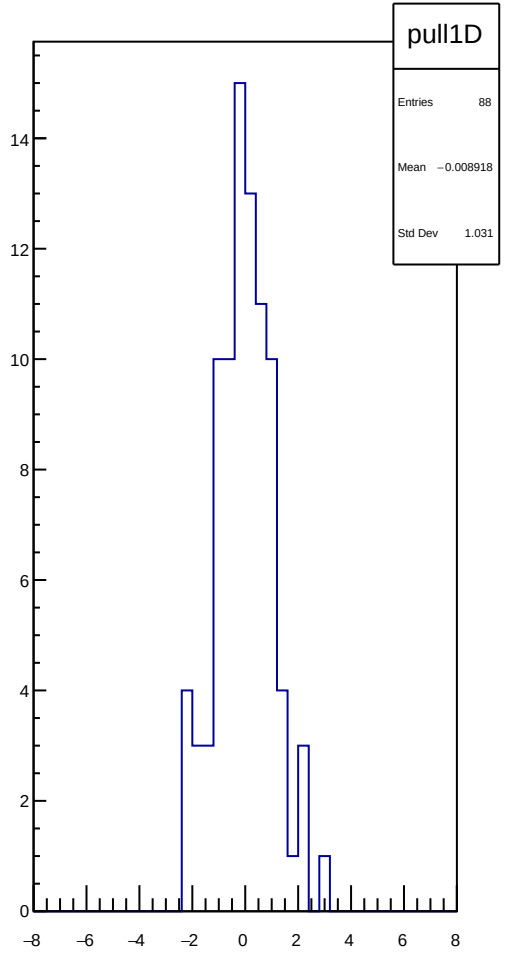

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2119 / 87
p0 914.4 ± 0.7112
1000
980
960
940
920
900
880
860
840
820

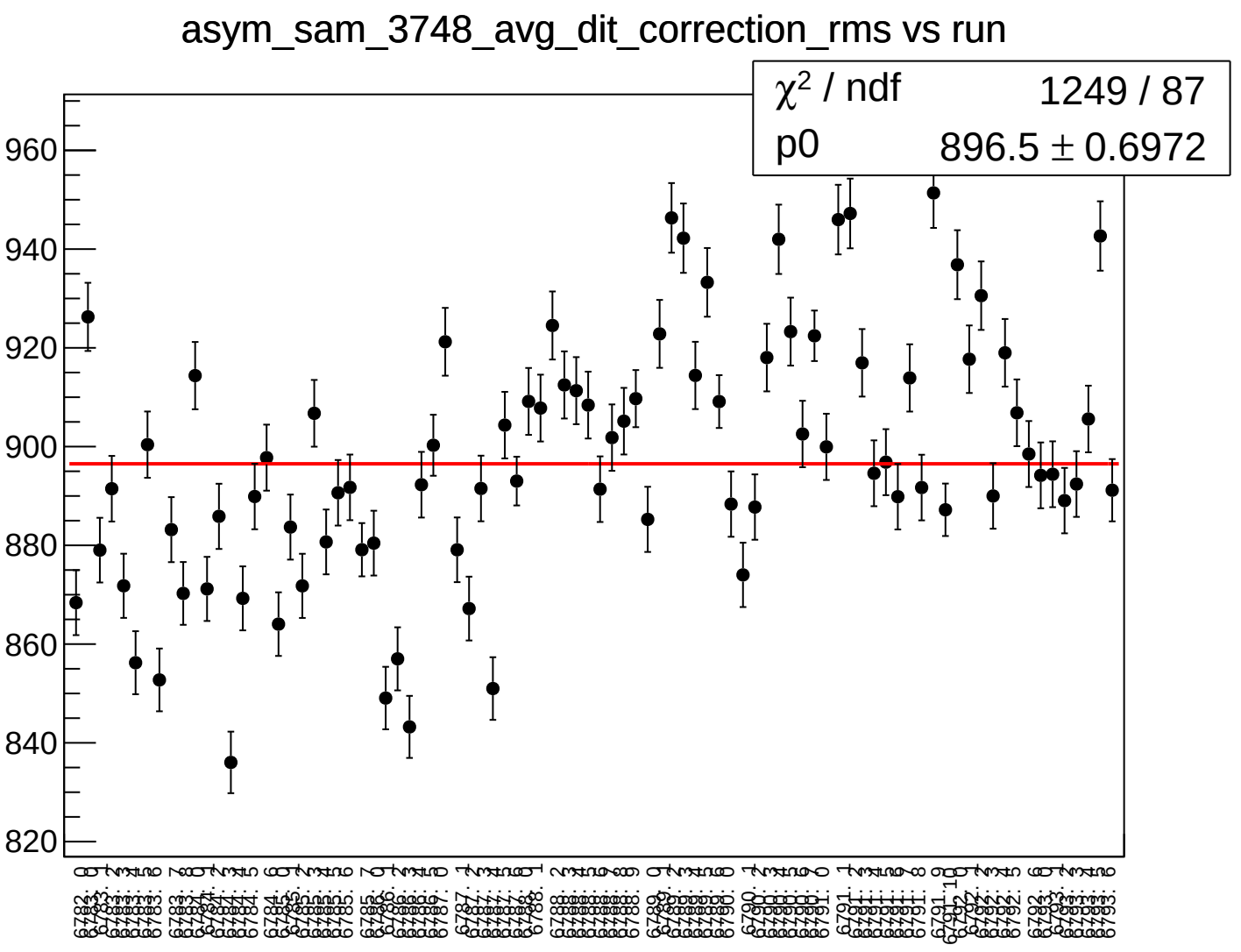

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 86.48 / 87
p0 91.92 ± 126.4
pull
Entries 88
Mean 149.4
Std Dev 0

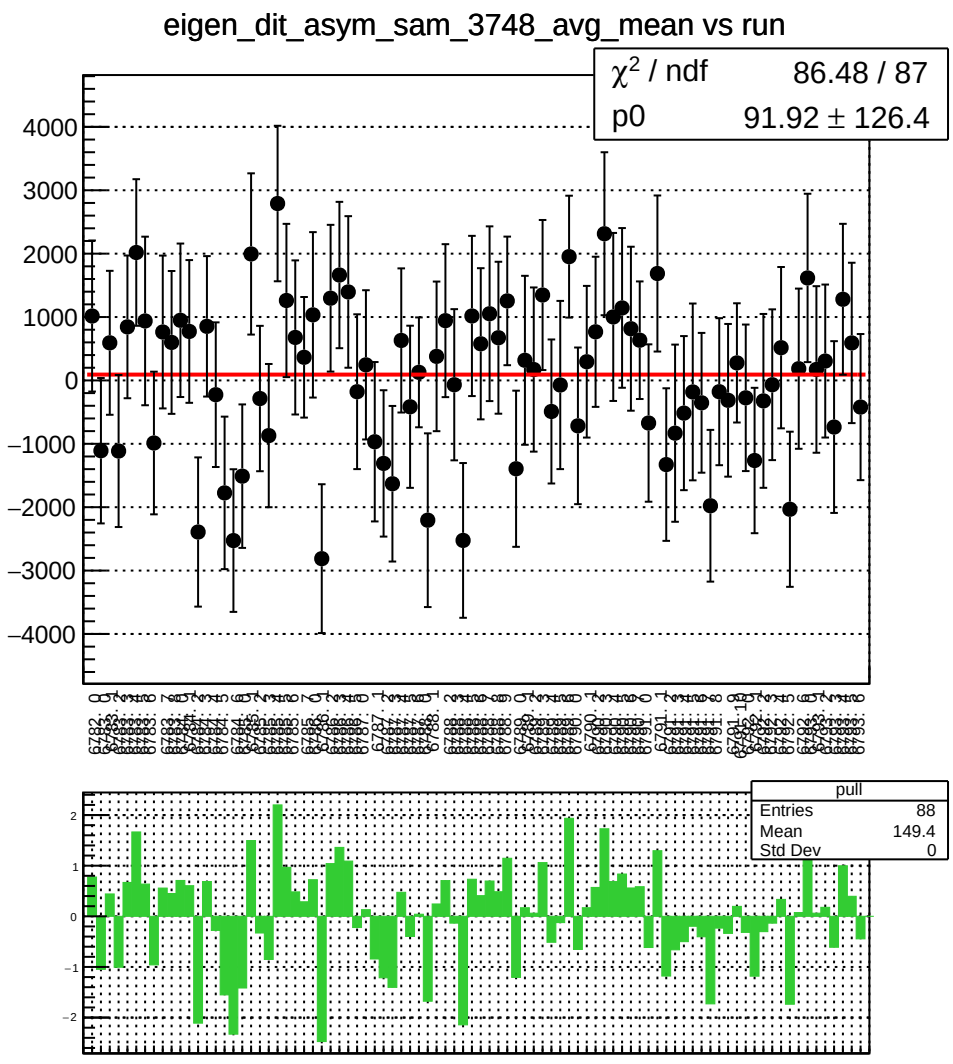

pull1D
Entries 88
Mean −0.005822
Std Dev 0.9913

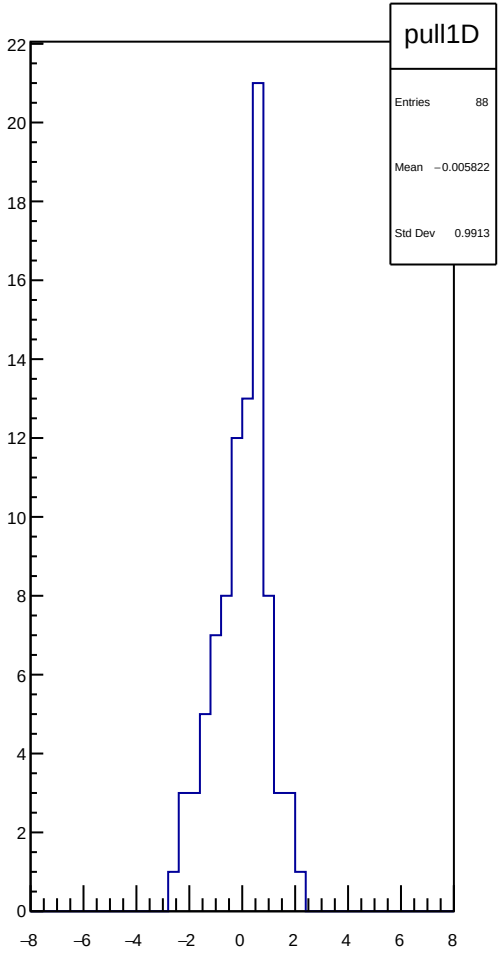

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5184 / 87
p0 114.8 ± 0.08936
135
130
125
120
115
110
105

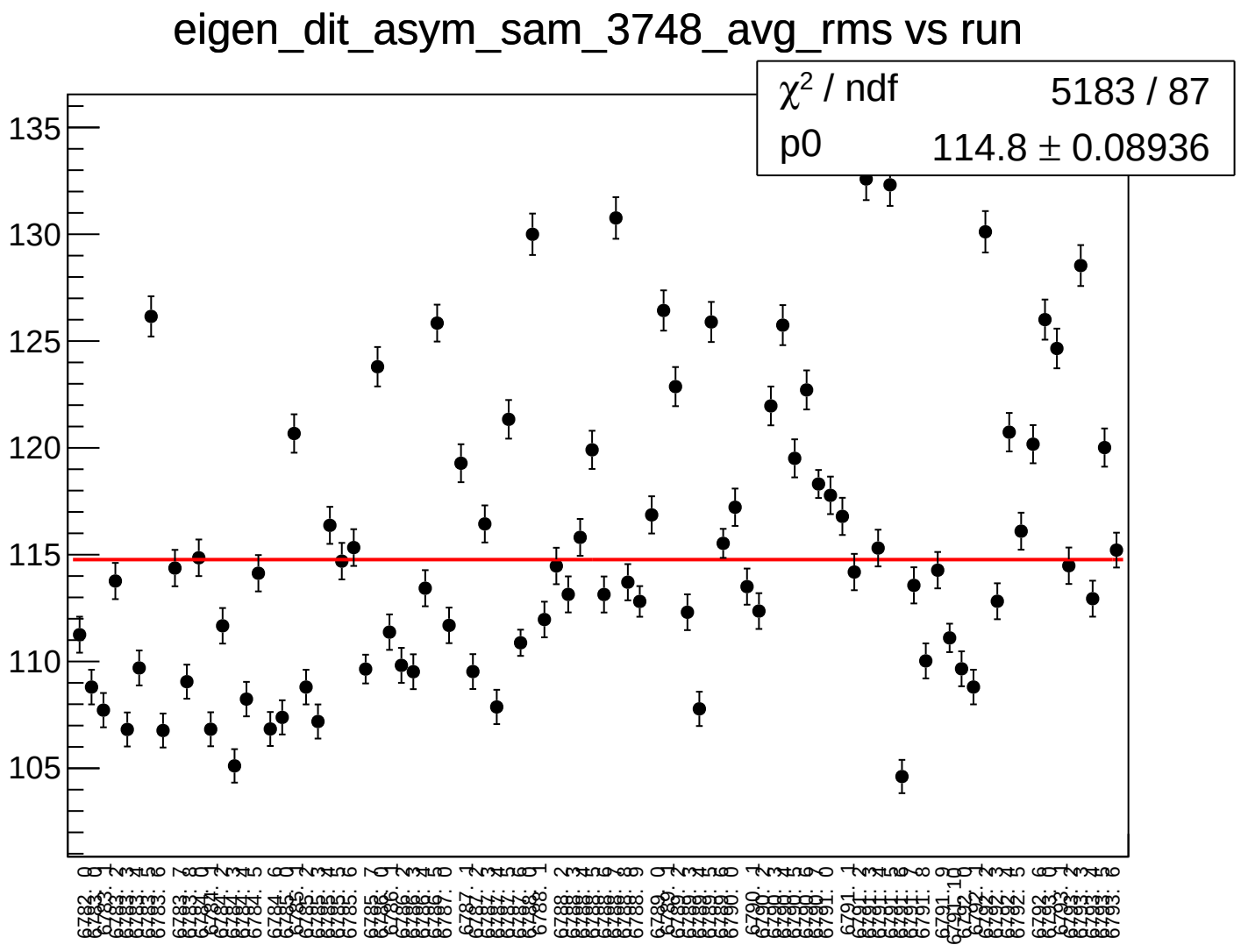

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 93.58 / 87
p0 −3608 ± 985.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −547.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.008918
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

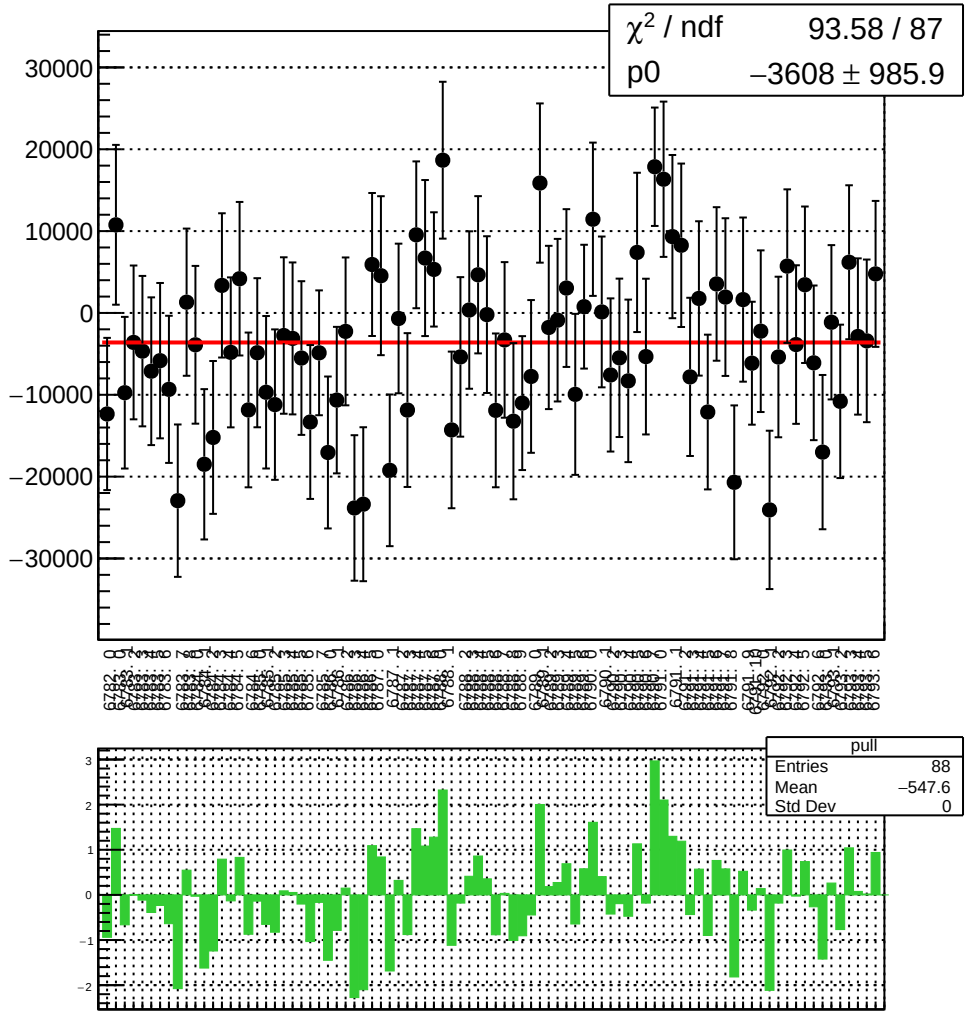

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1249 / 87
p0 896.5 ± 0.6972
960
940
920
900
880
860
840
820

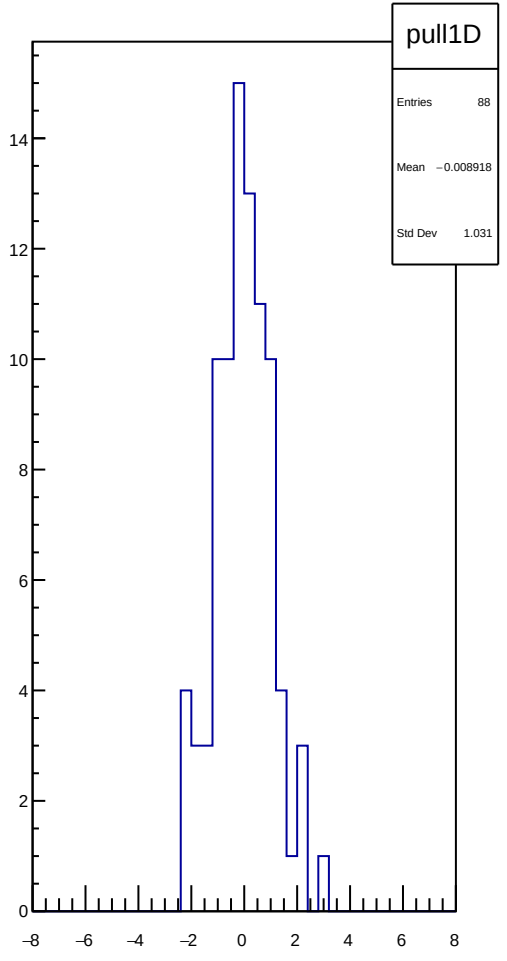

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 86.48 / 87
p0 91.92 ± 126.4
pull
Entries 88
Mean 149.4
Std Dev 0

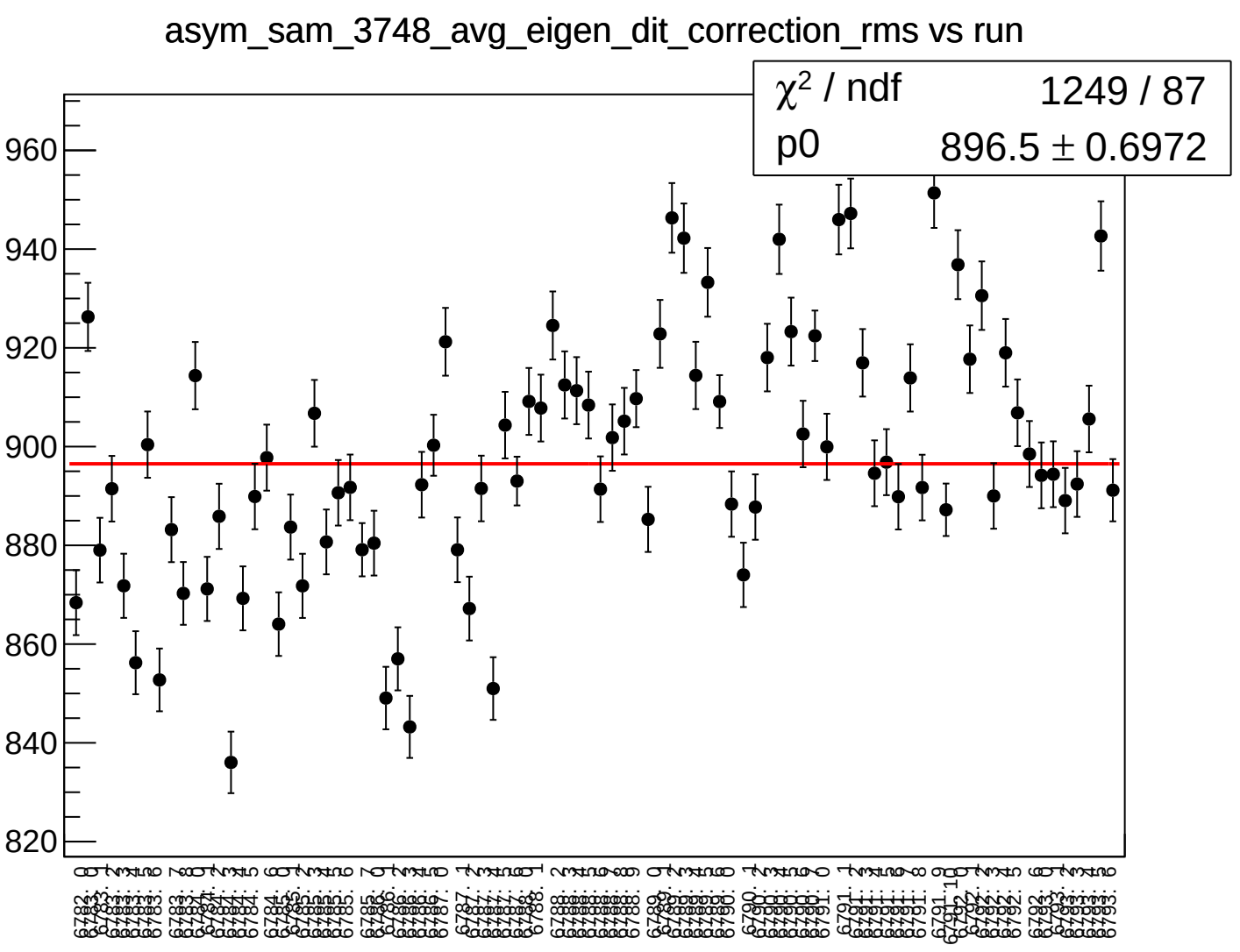

pull1D
Entries 88
Mean −0.005822
Std Dev 0.9913

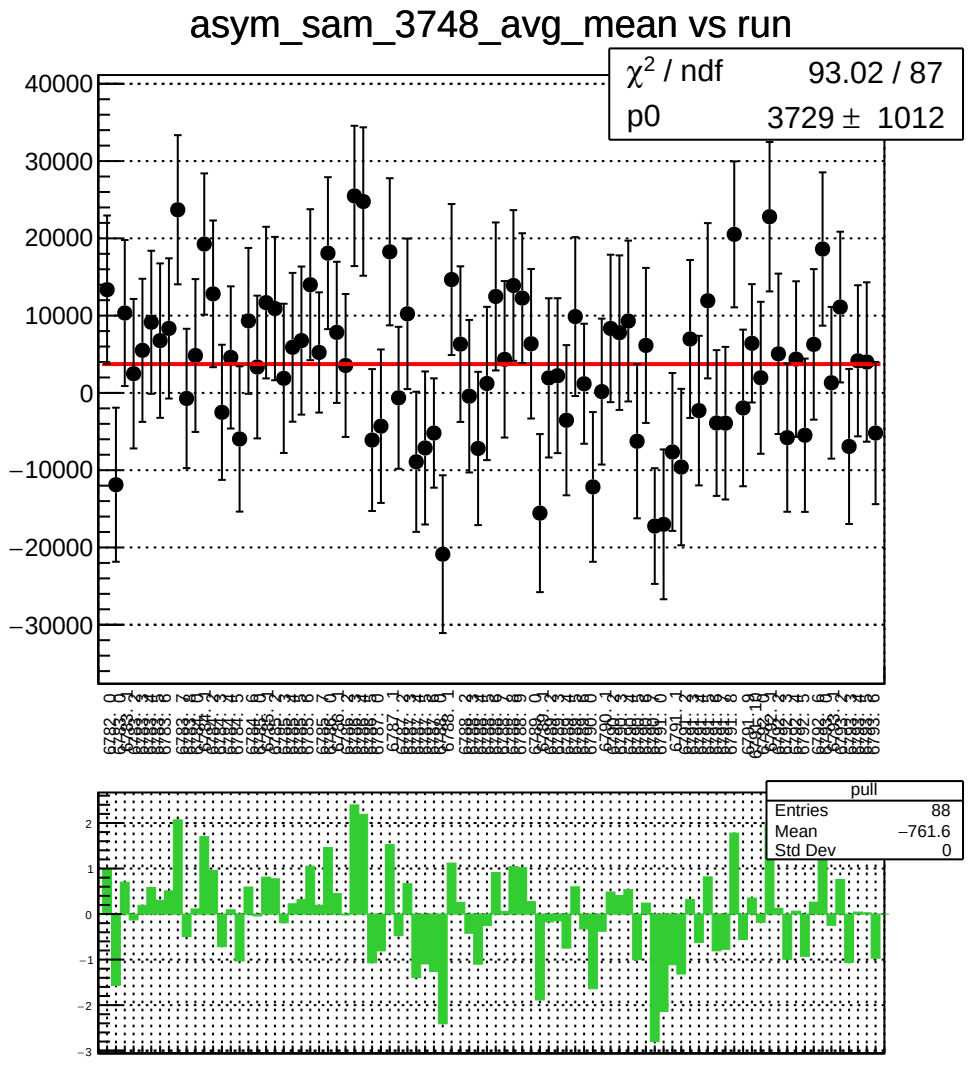

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5183 / 87
p0 114.8 ± 0.08936
135
130
125
120
115
110
105

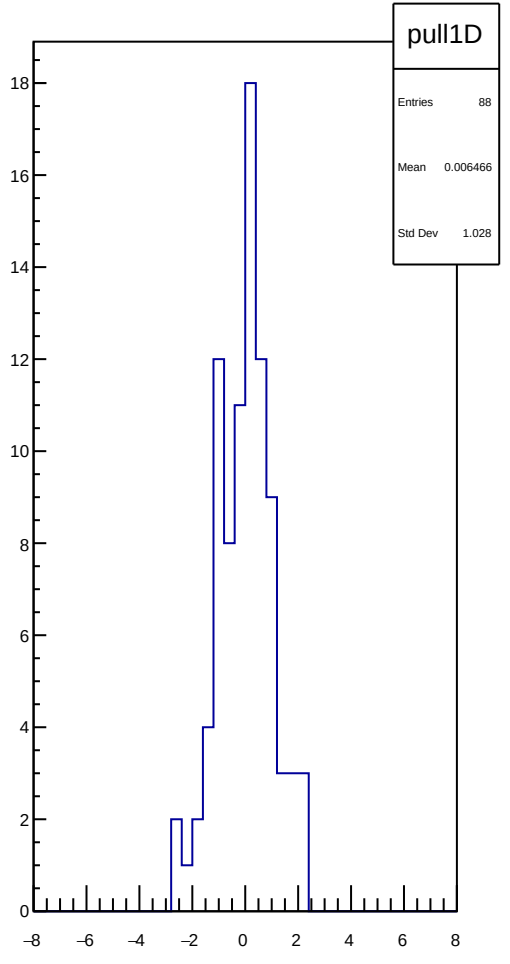
asym_sam_3748_avg_eigen_dit_correction_mean vs run

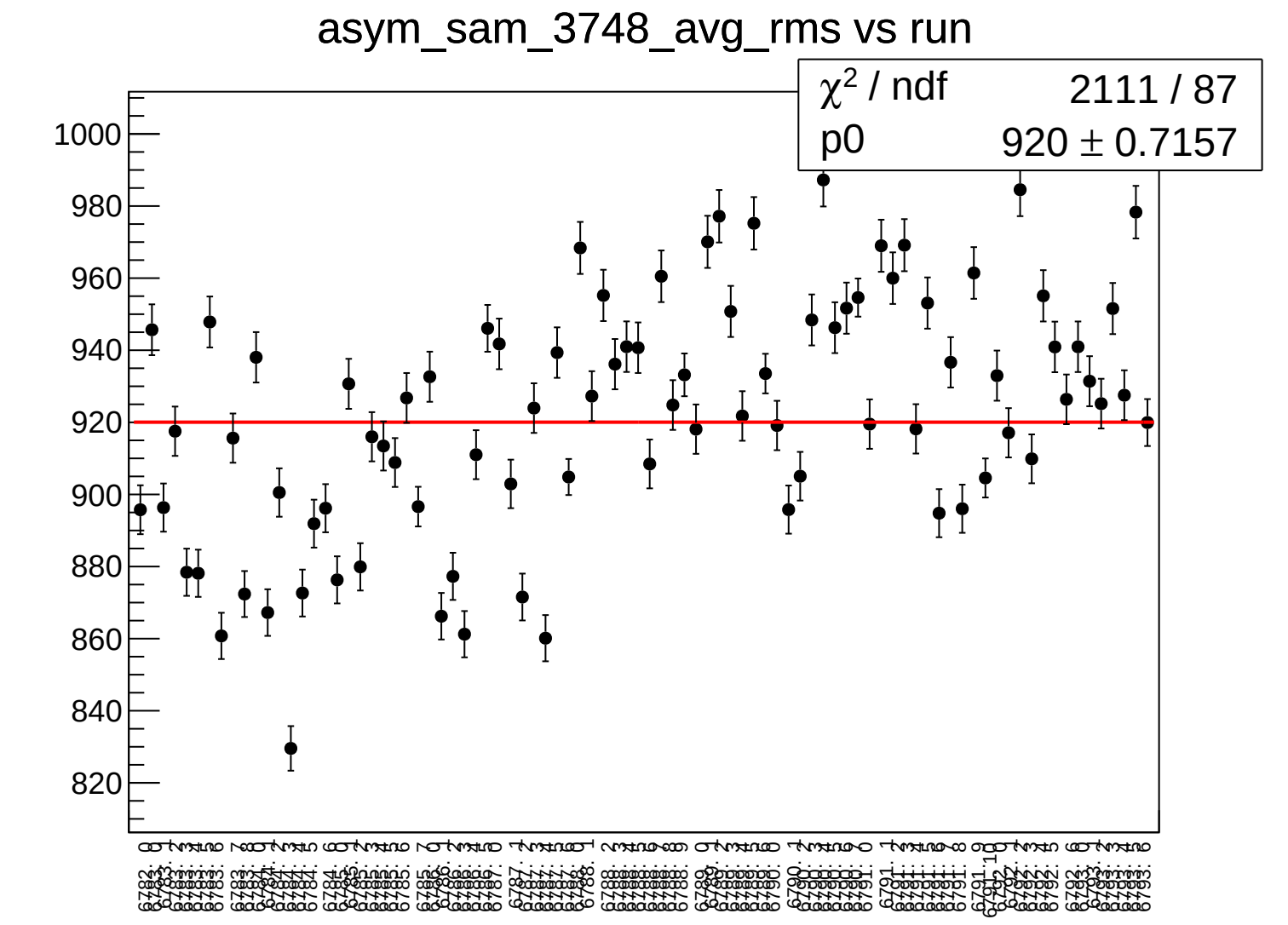


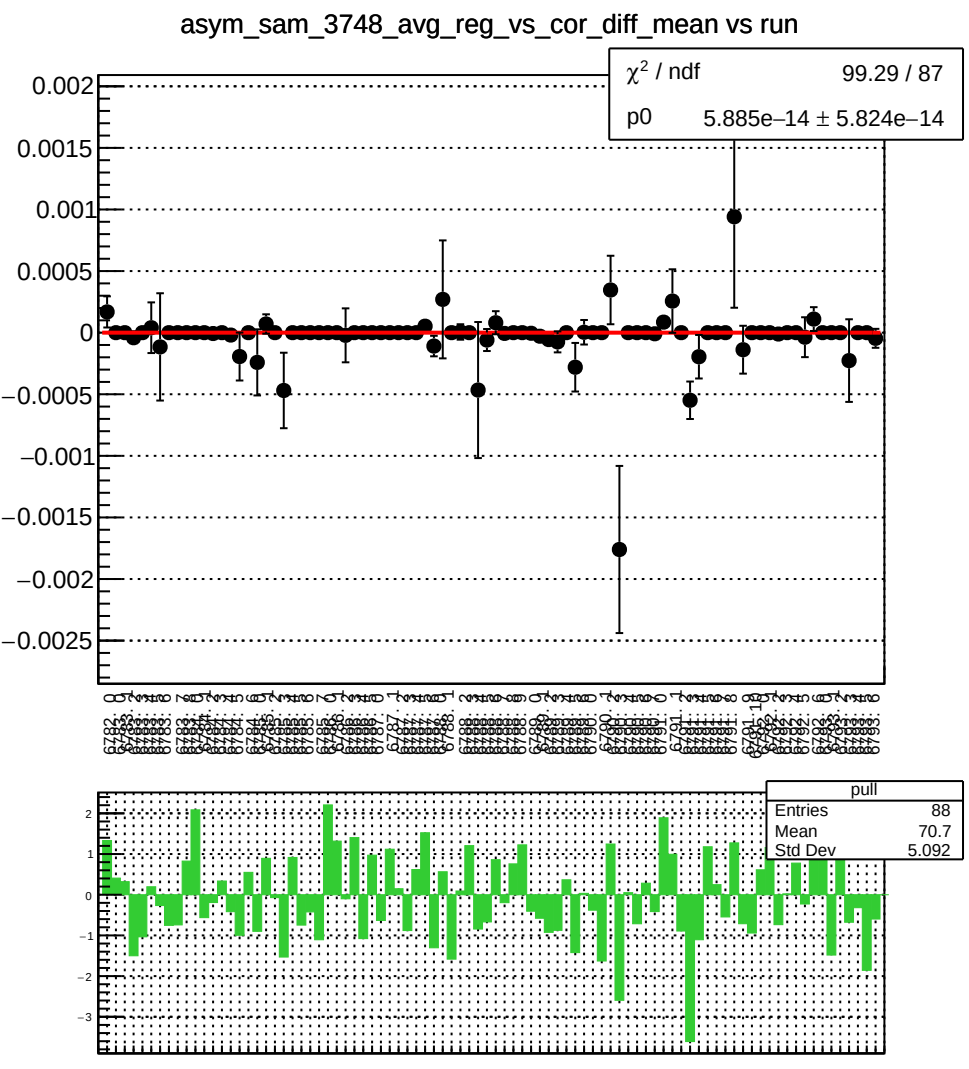


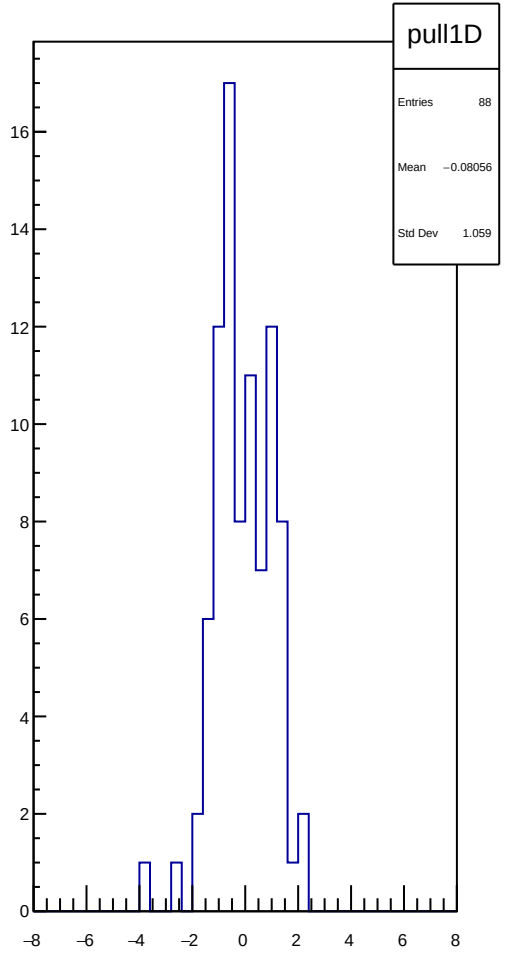

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1249 / 87
p0 896.5 ± 0.6972
960
940
920
900
880
860
840
820

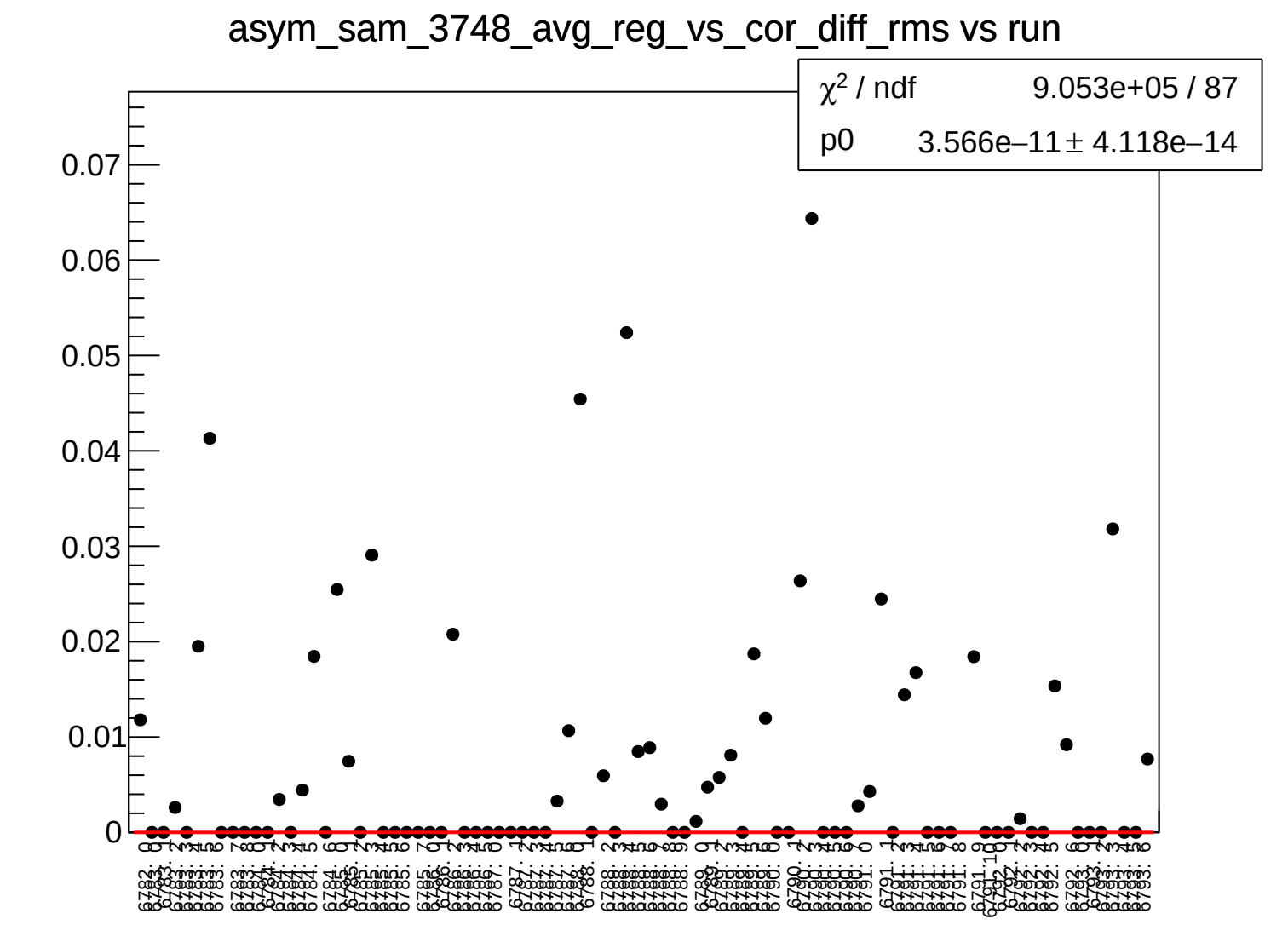

asym_sam_3748_avg_mean vs run
χ² / ndf 93.02 / 87
p0 3729 ± 1012
pull
Entries 88
Mean −761.6
Std Dev 0

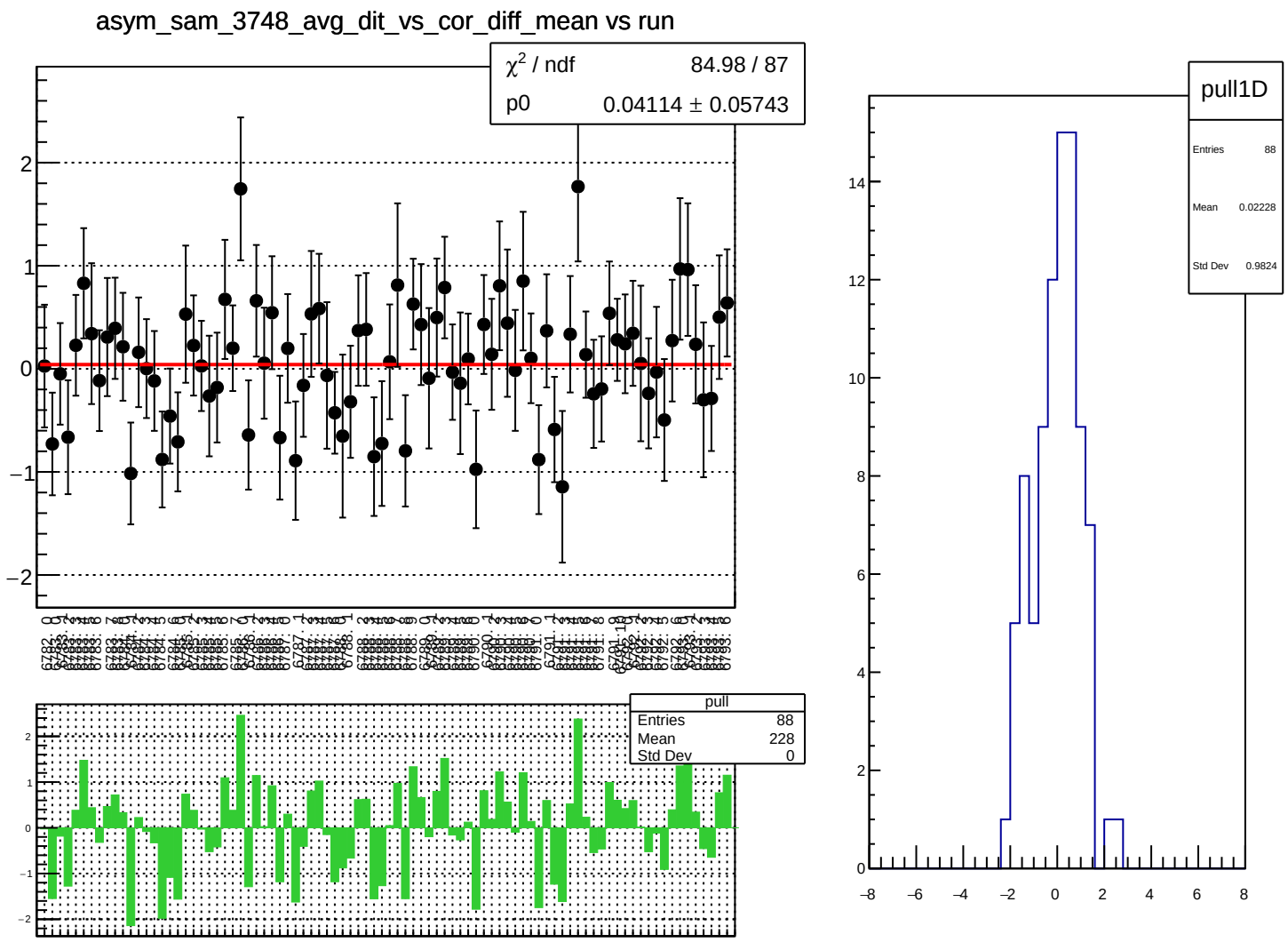

pull1D
Entries 88
Mean 0.006466
Std Dev 1.028

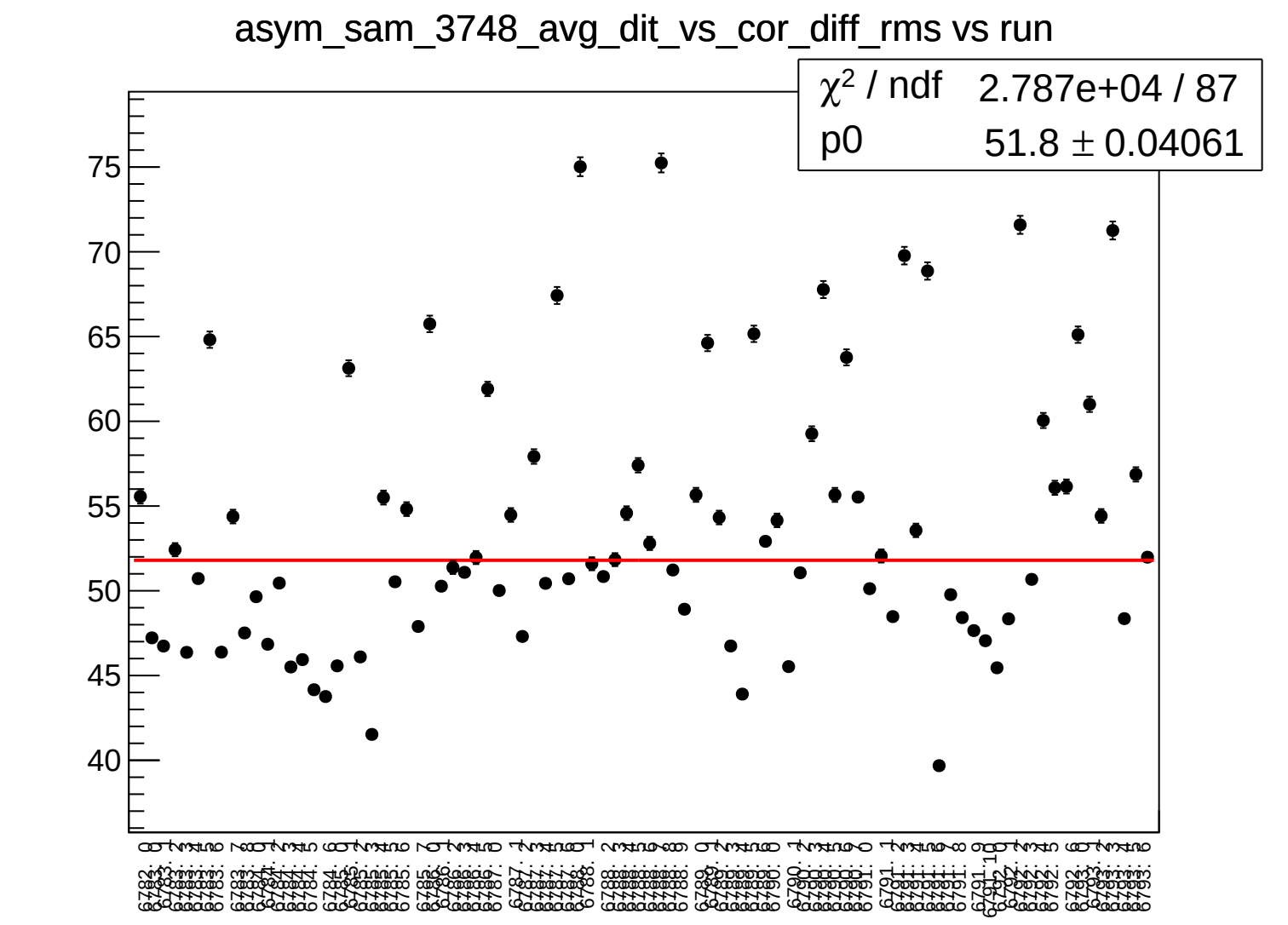

asym_sam_3748_avg_rms vs run
χ^2 / ndf 2111 / 87
p0 920 ± 0.7157
1000
980
960
940
920
900
880
860
840
820

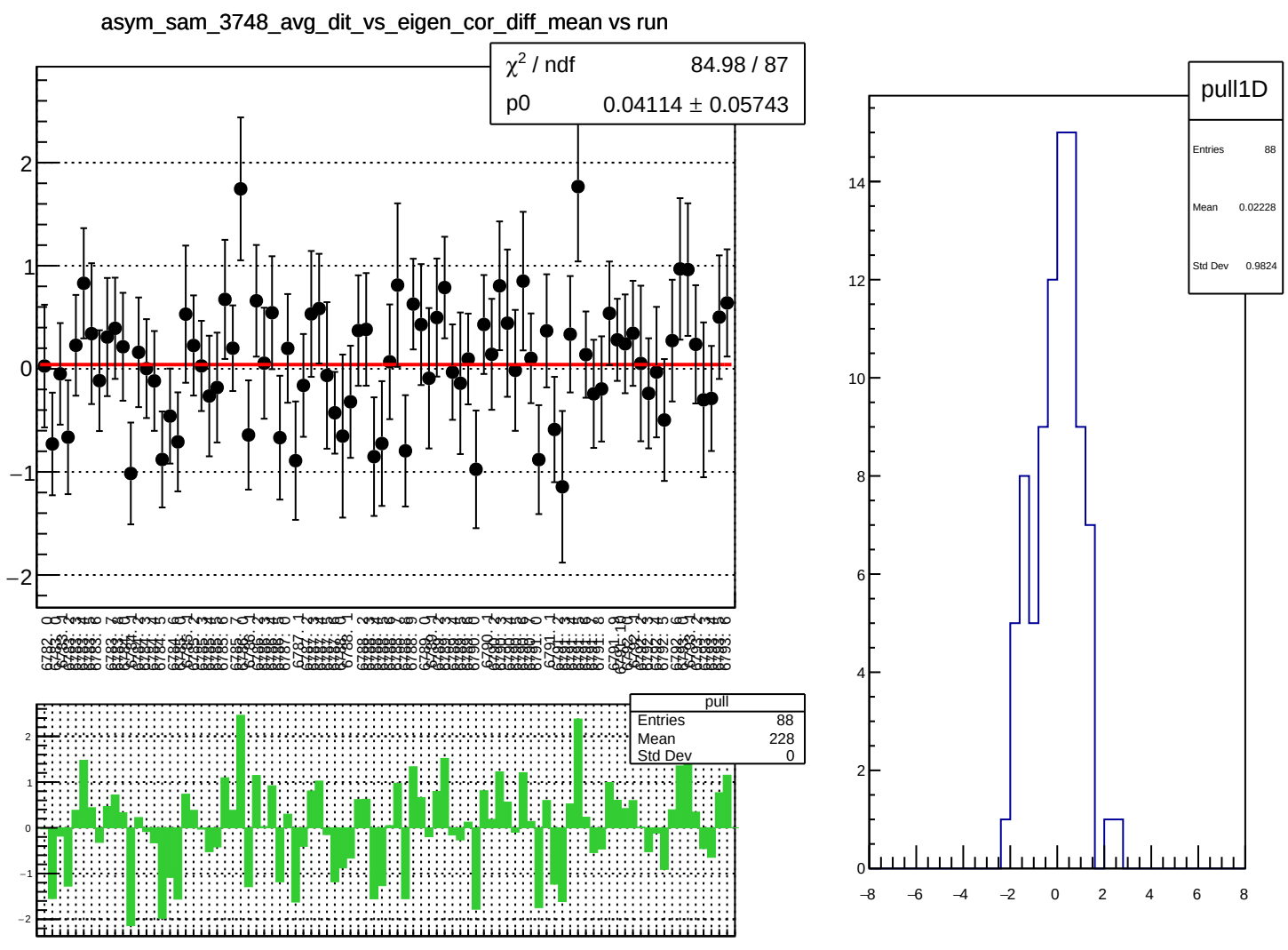

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.29 / 87
p0 5.885e−14 ± 5.824e−14
pull
Entries 88
Mean 70.7
Std Dev 5.092

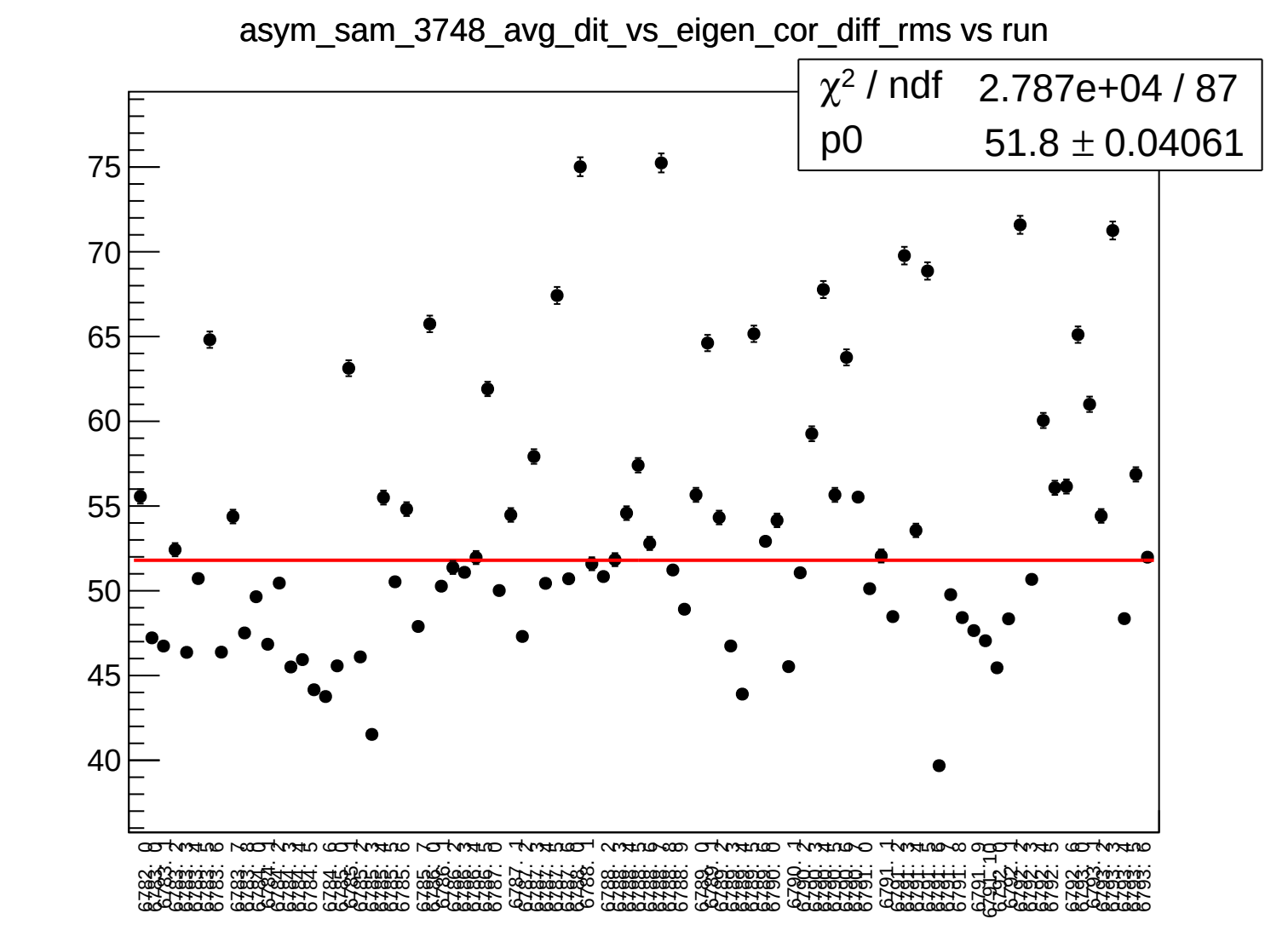

pull1D
Entries 88
Mean −0.08056
Std Dev 1.059

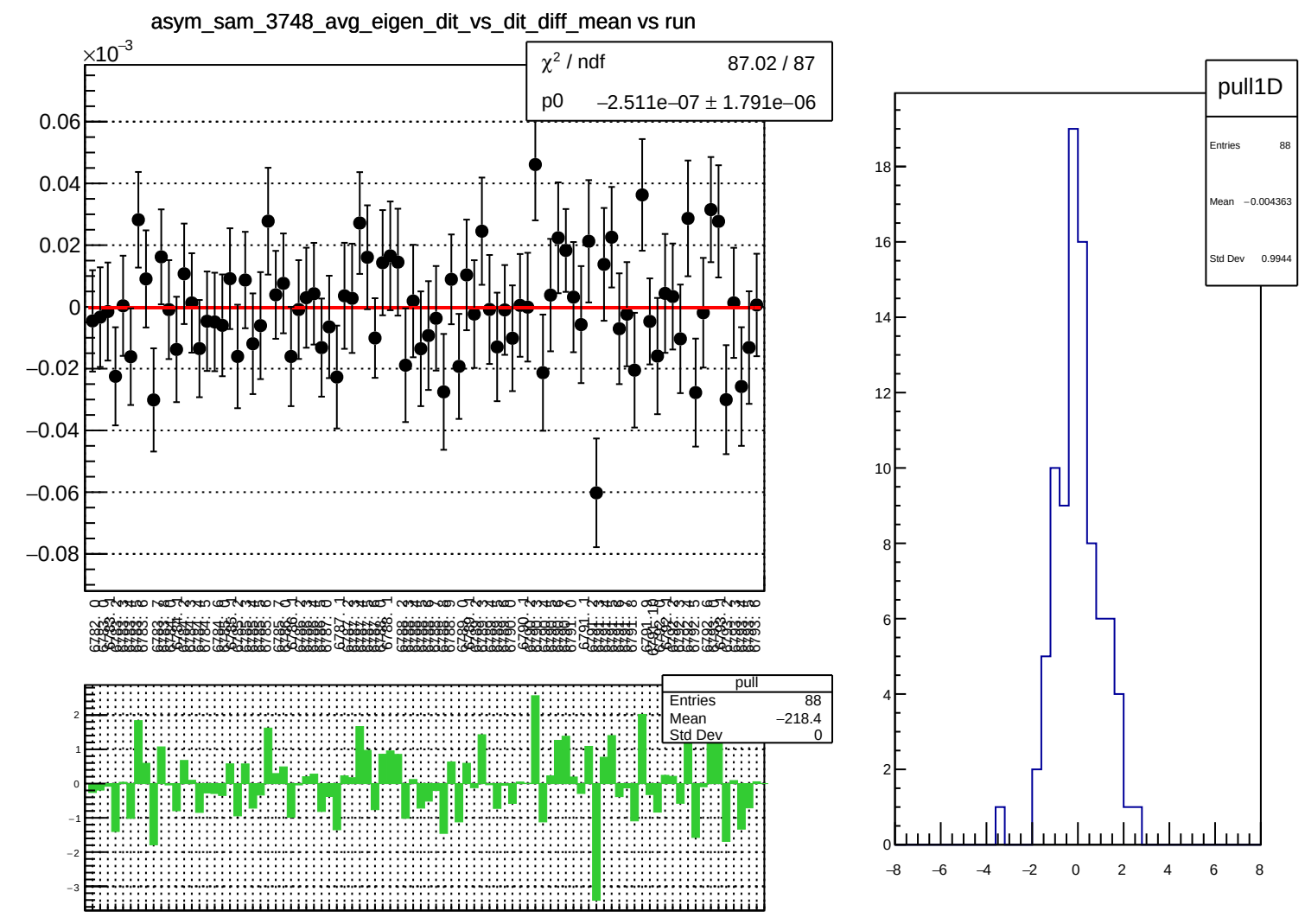

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.053e+05 / 87
p0 3.566e−11 ± 4.118e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

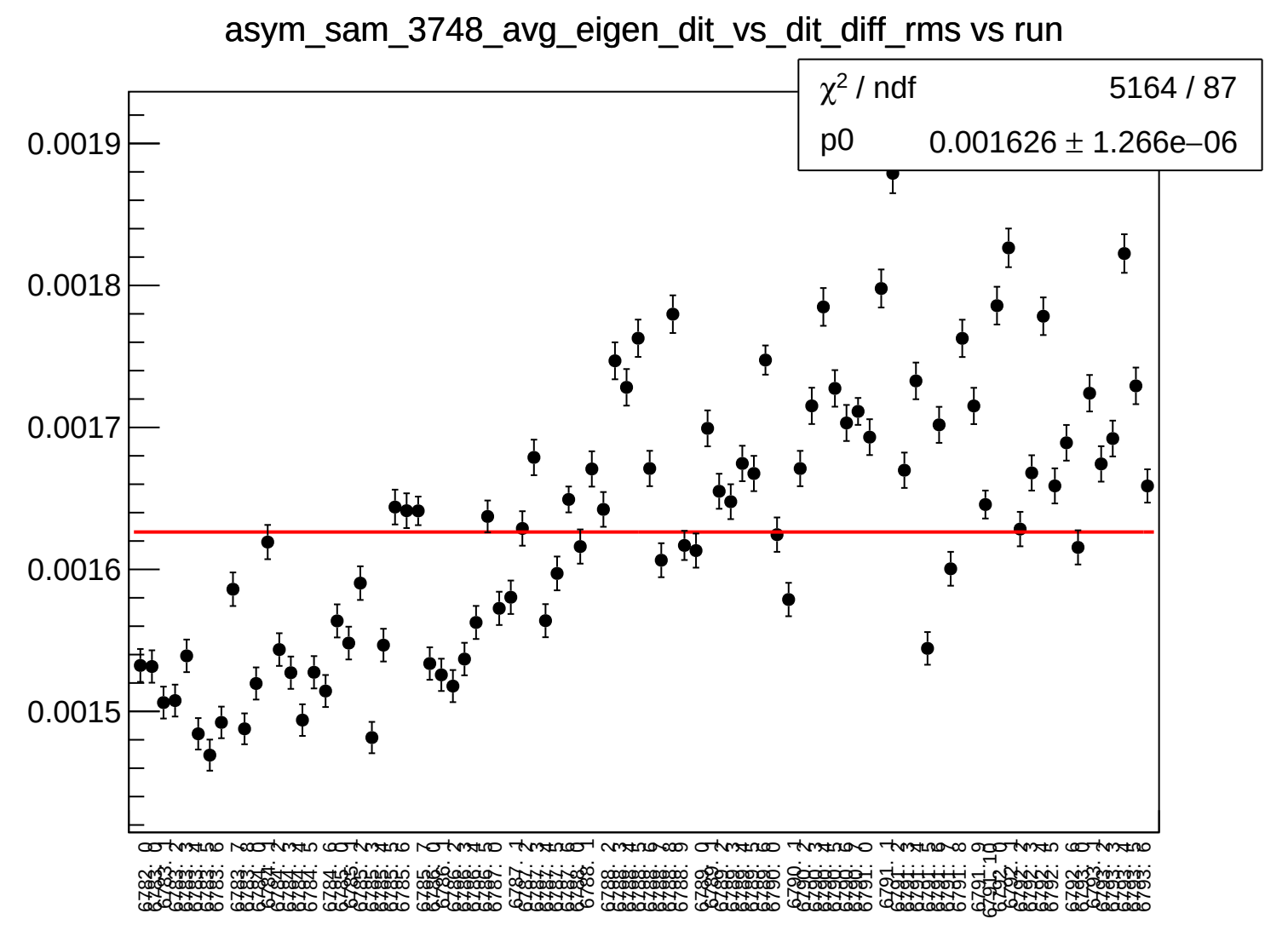

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.98 / 87
p0 0.04114 ± 0.05743
pull
Entries 88
Mean 228
Std Dev 0
pull1D
Entries 88
Mean 0.02228
Std Dev 0.9824

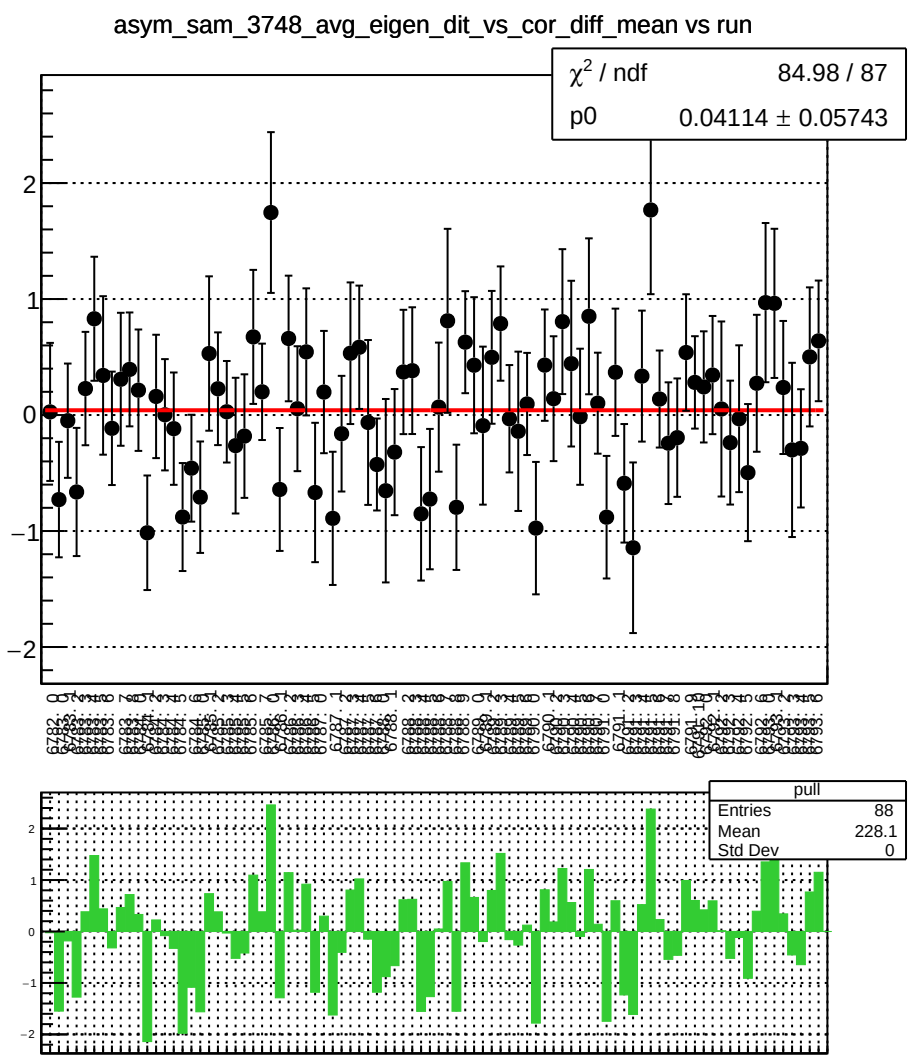

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 51.8 ± 0.04061
75
70
65
60
55
50
45
40

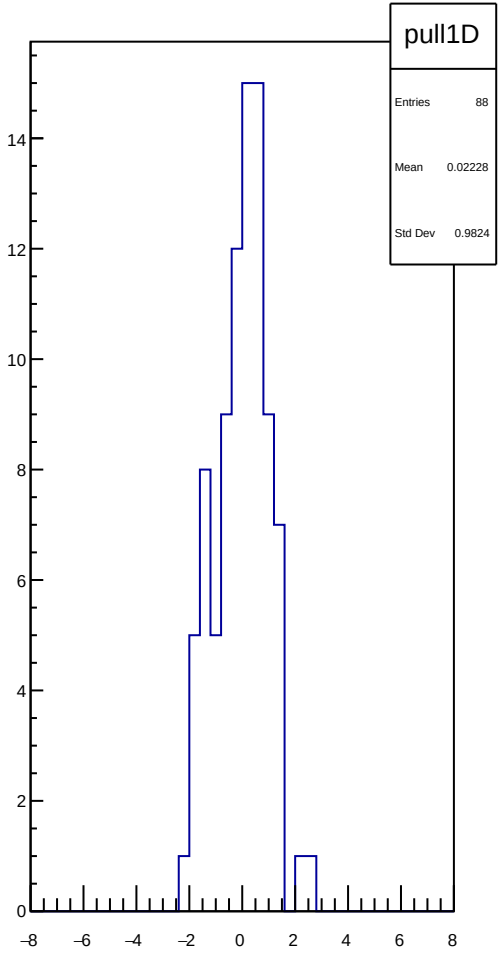

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.98 / 87
p0 0.04114 ± 0.05743
pull
Entries 88
Mean 228
Std Dev 0
pull1D
Entries 88
Mean 0.02228
Std Dev 0.9824

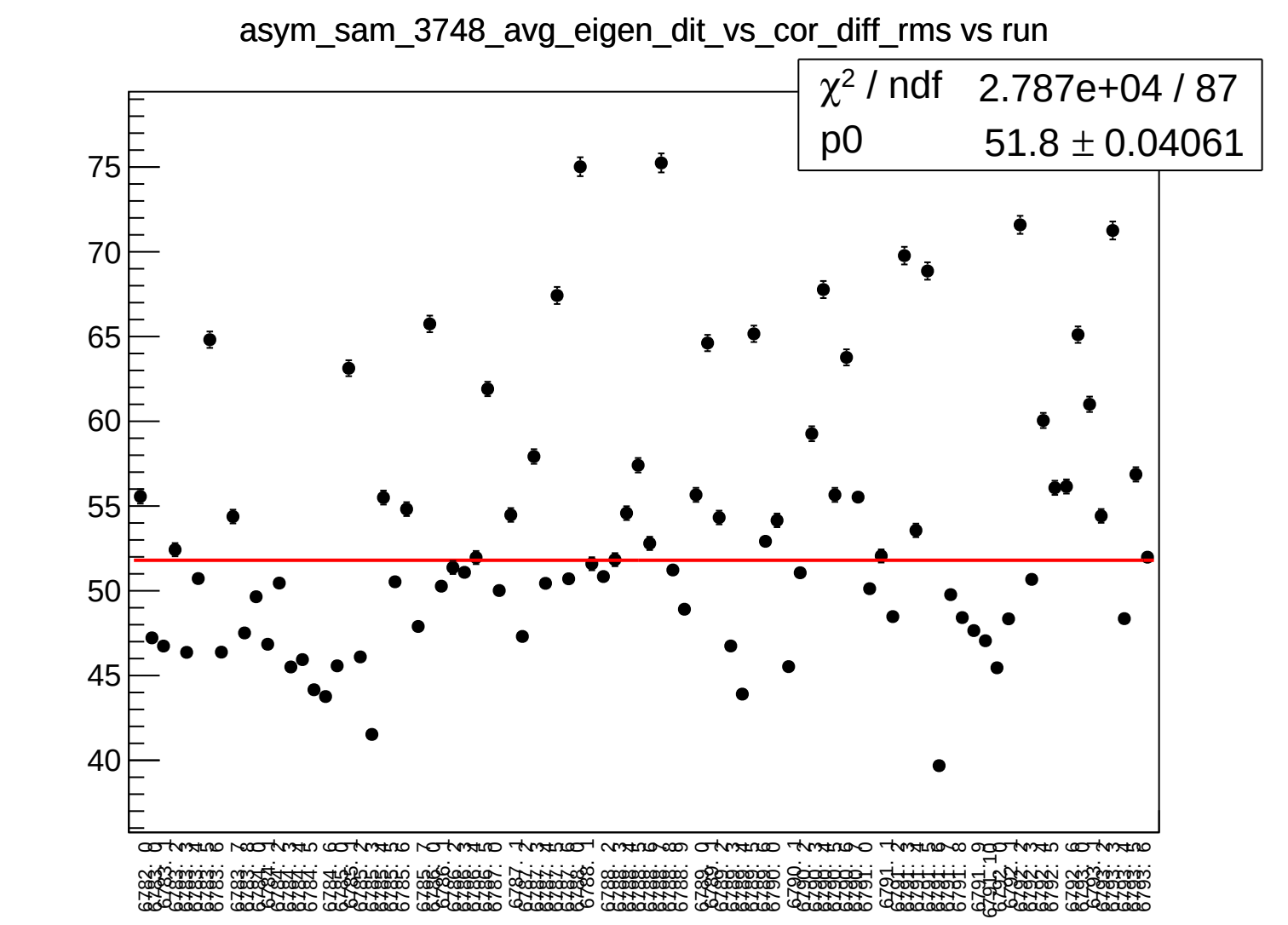

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 51.8 ± 0.04061
75
70
65
60
55
50
45
40


asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.02 / 87
p0 −2.511e−07 ± 1.791e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean −218.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.004363
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

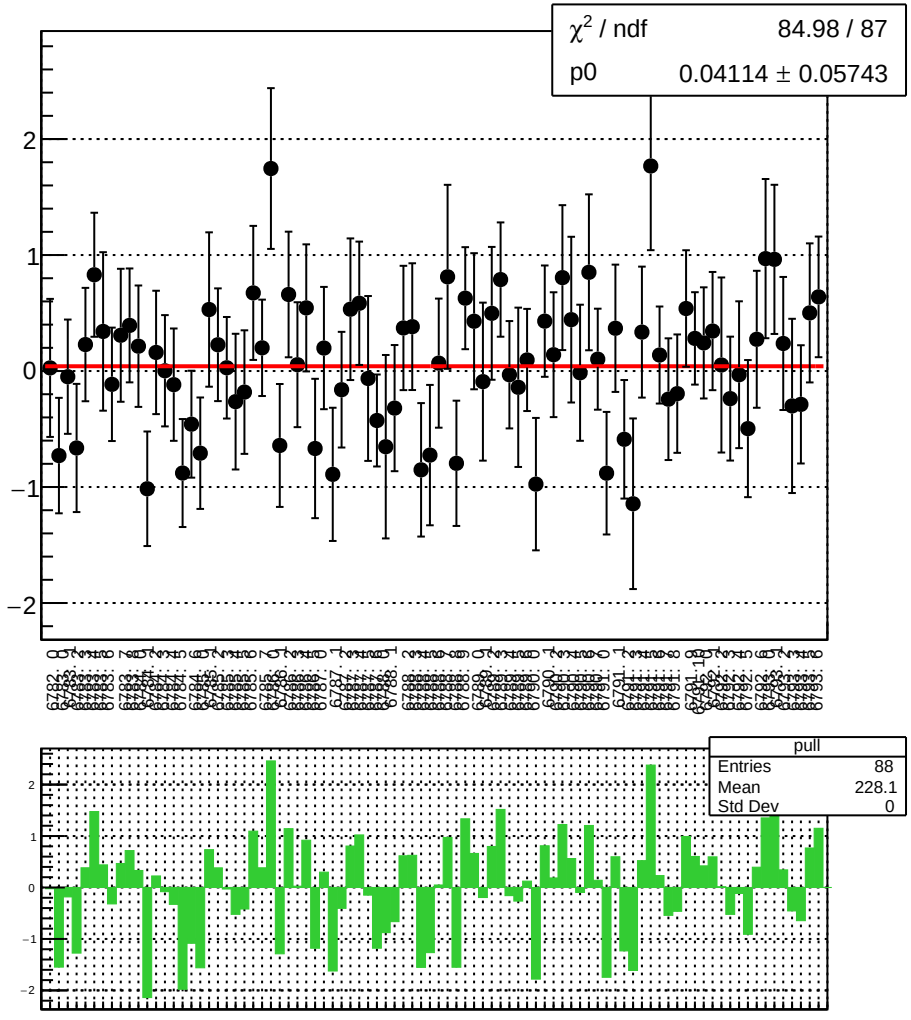

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5164 / 87
p0 0.001626 ± 1.266e−06
0.0019
0.0018
0.0017
0.0016
0.0015

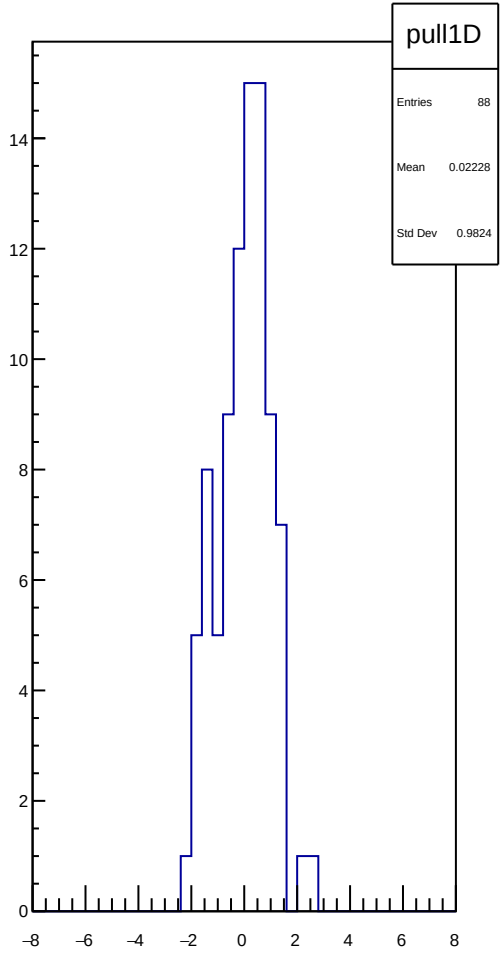

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.98 / 87
p0 0.04114 ± 0.05743
pull
Entries 88
Mean 228.1
Std Dev 0

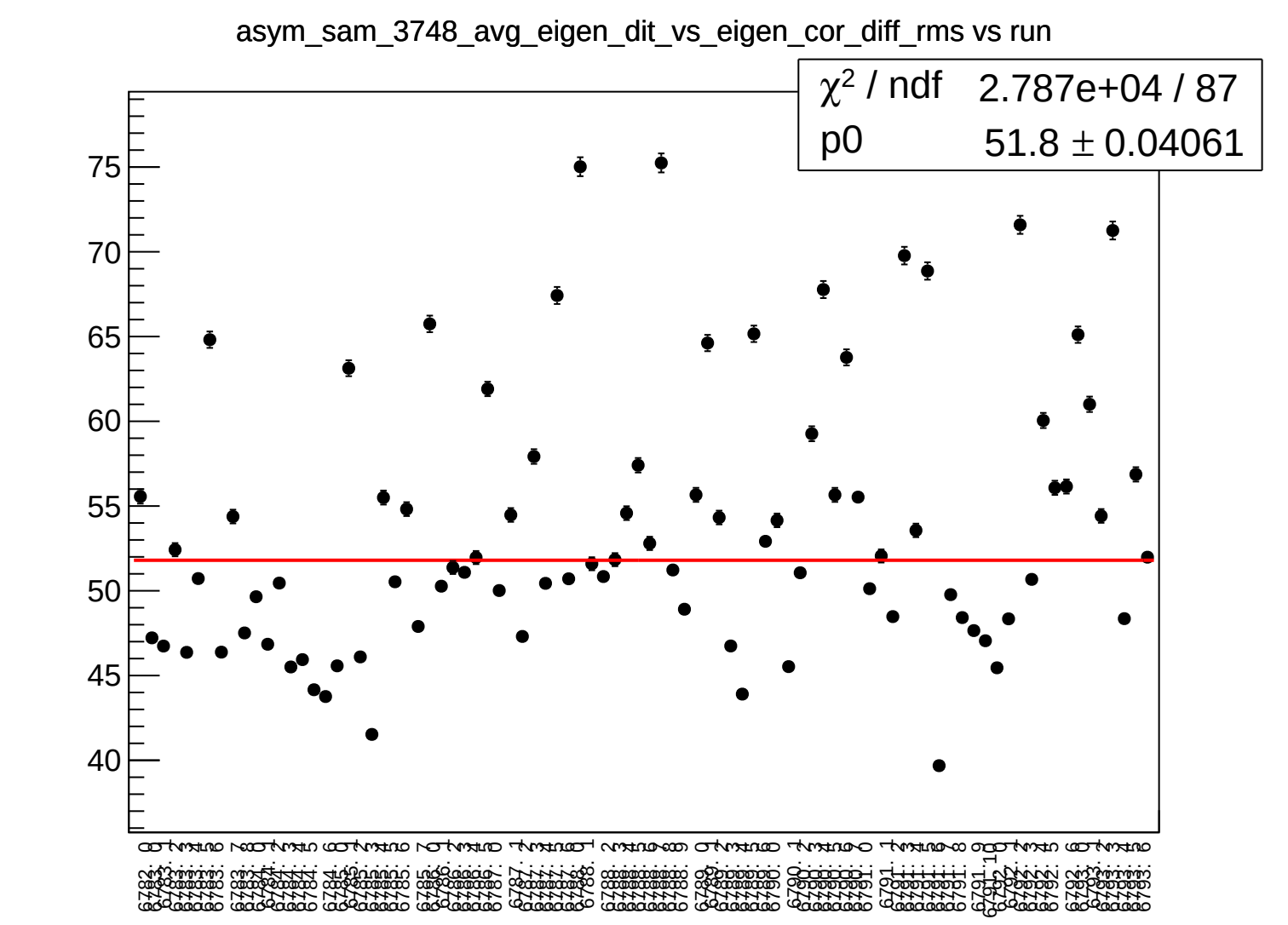

pull1D
Entries 88
Mean 0.02228
Std Dev 0.9824

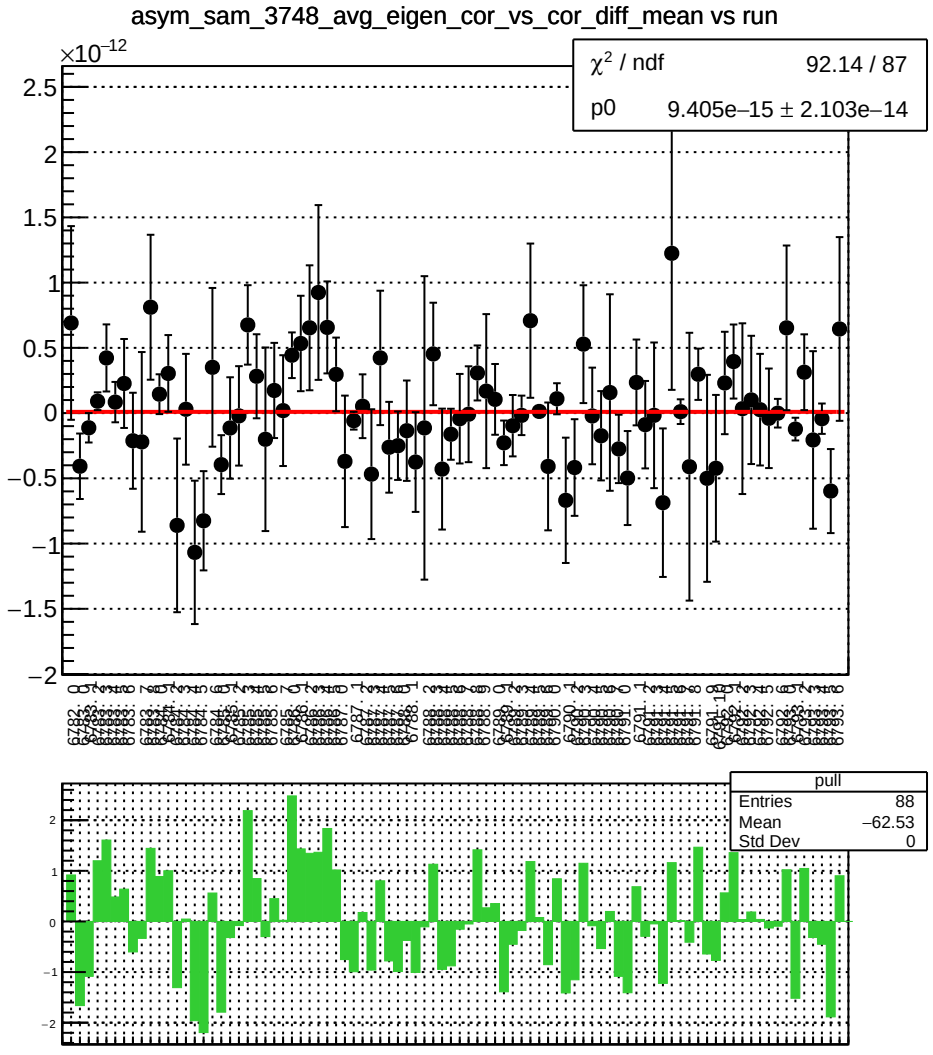

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 51.8 ± 0.04061
75
70
65
60
55
50
45
40

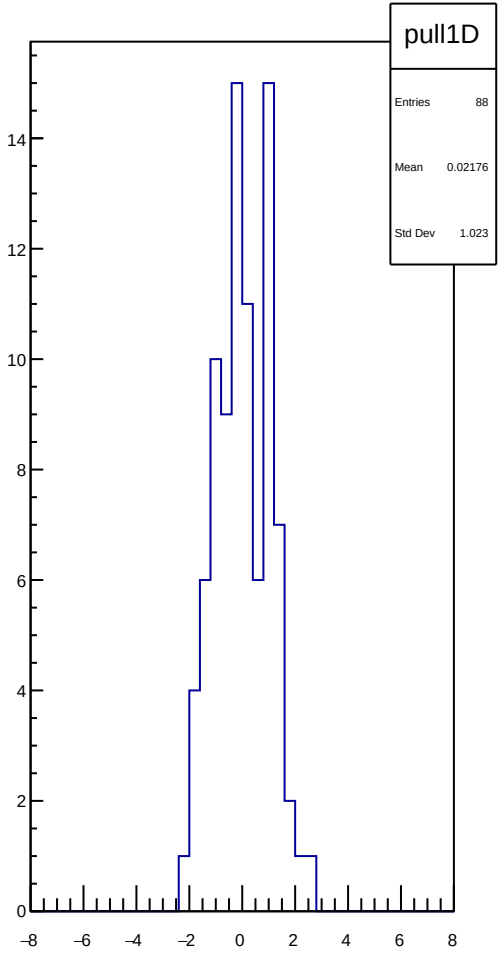
asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

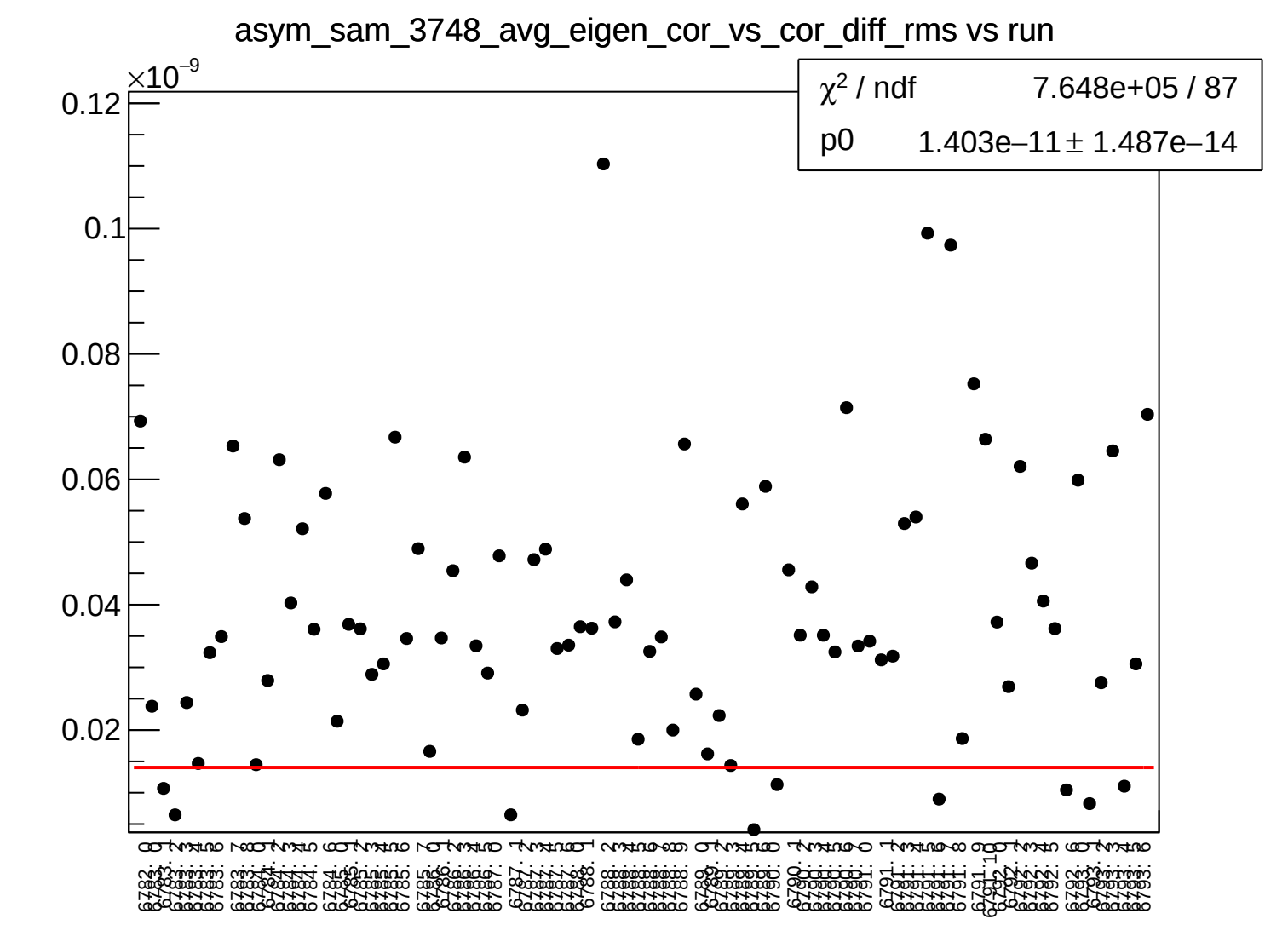


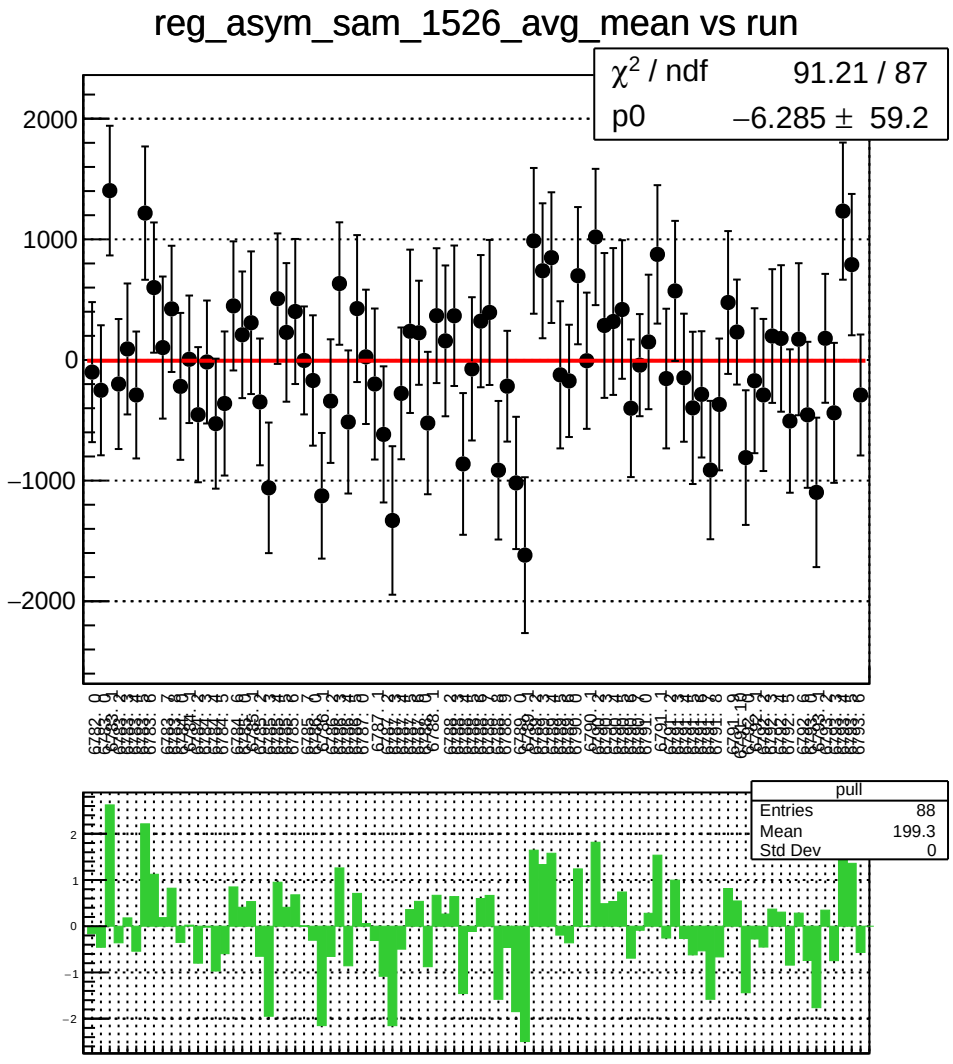


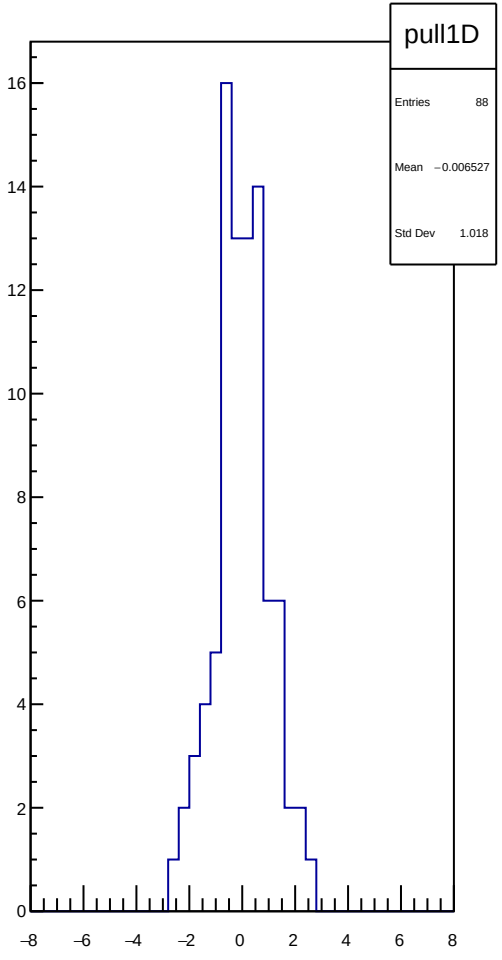

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 51.8 ± 0.04061
75
70
65
60
55
50
45
40


asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.14 / 87
p0 9.405e−15 ± 2.103e−14
pull
Entries 88
Mean −62.53
Std Dev 0

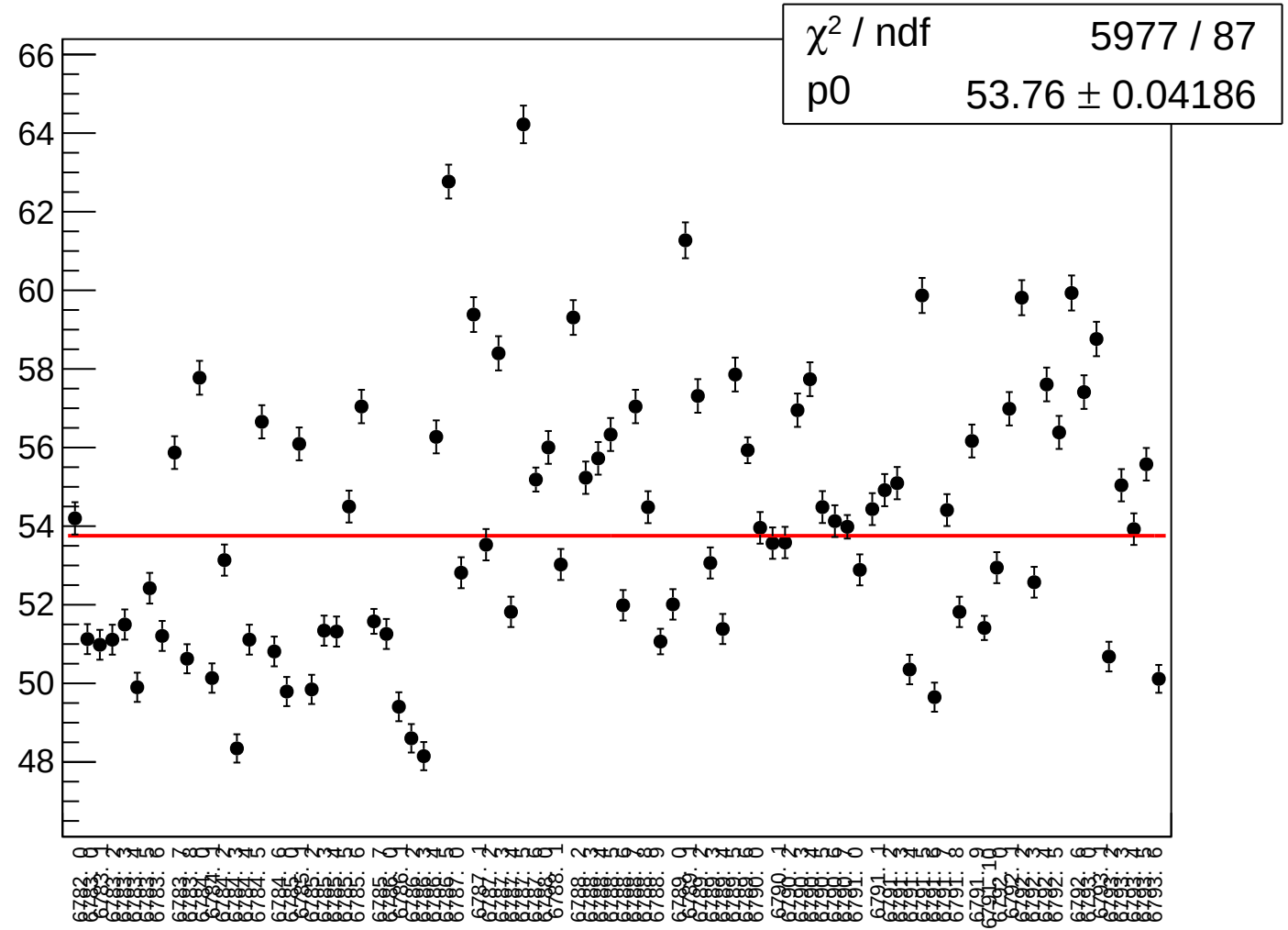

pull1D
Entries 88
Mean 0.02176
Std Dev 1.023

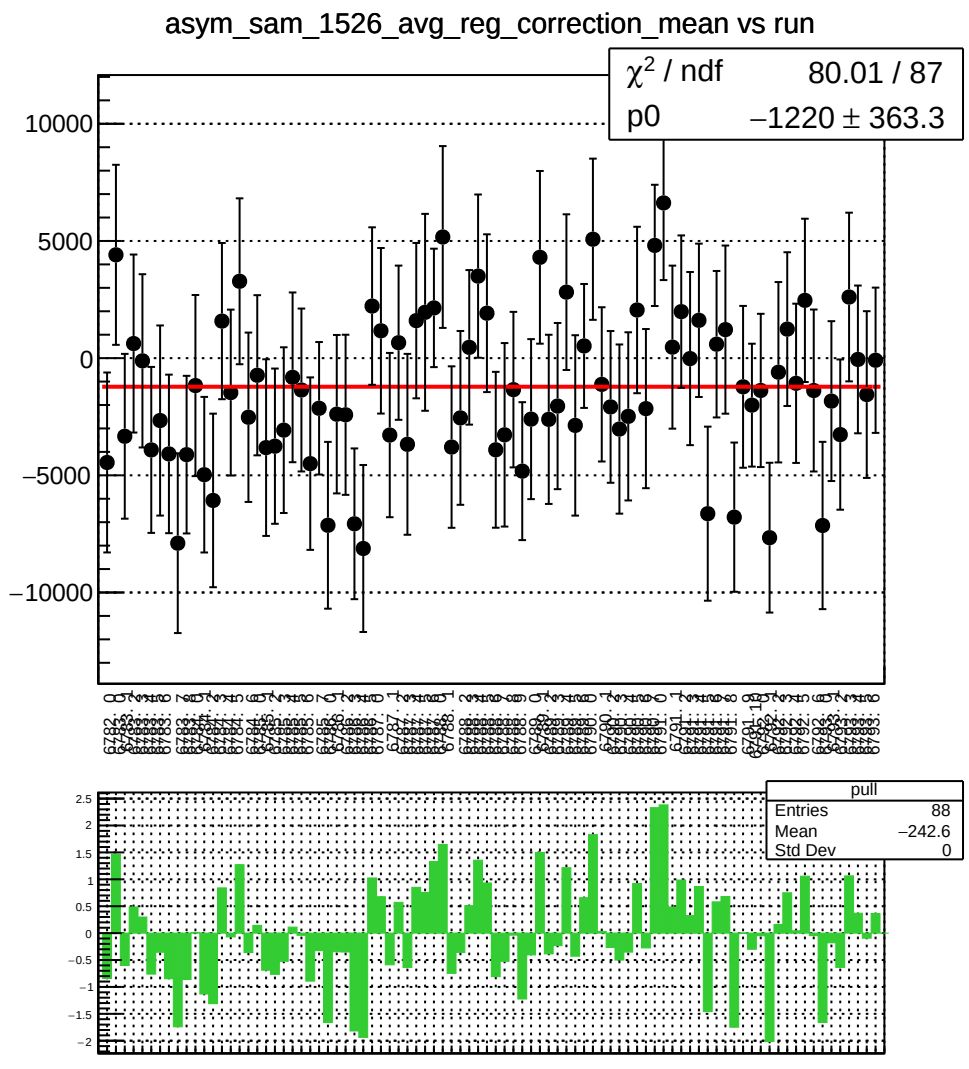

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 7.648e+05 / 87
p0 1.403e−11 ± 1.487e−14

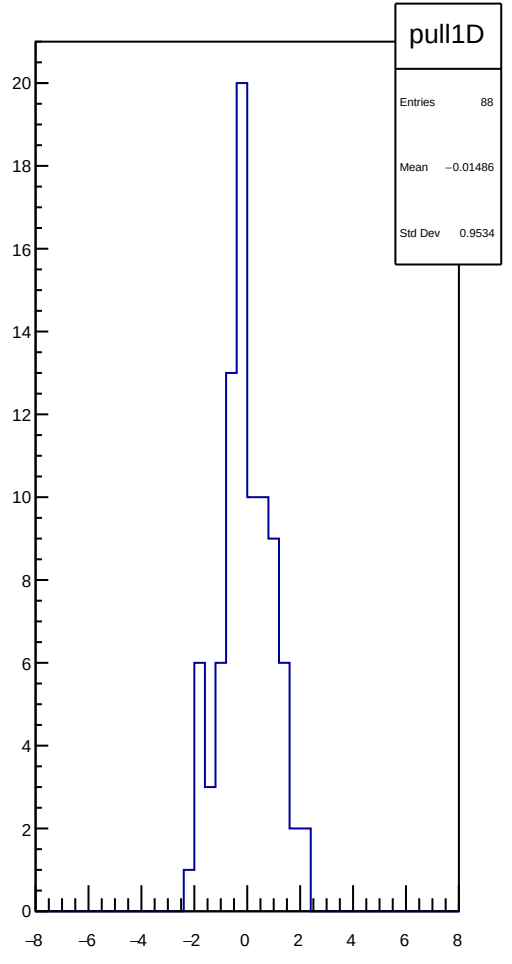

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 91.21 / 87
p0 −6.285 ± 59.2
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 199.3
Std Dev 0
2
1
0
−1
−2

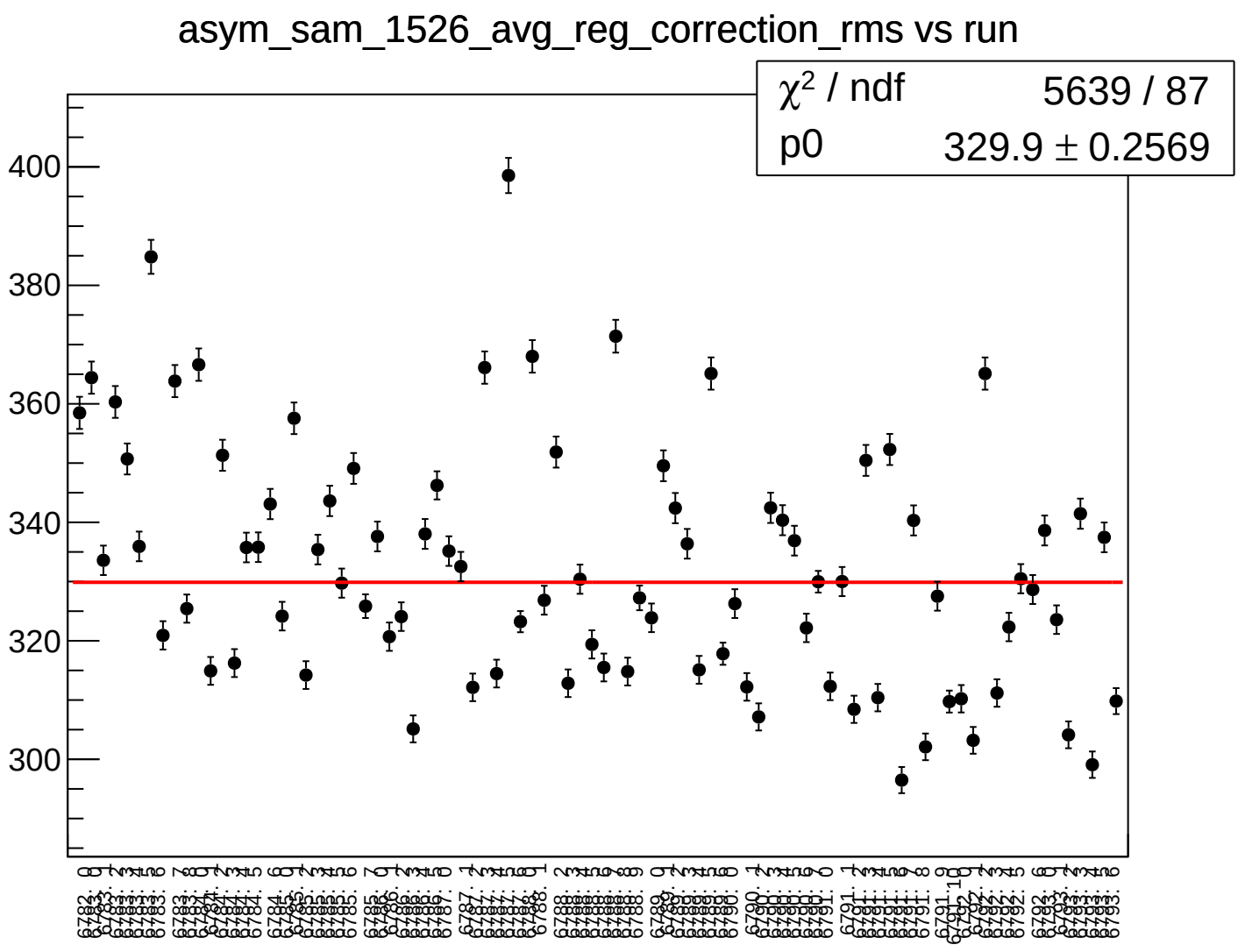

pull1D
Entries 88
Mean −0.006527
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

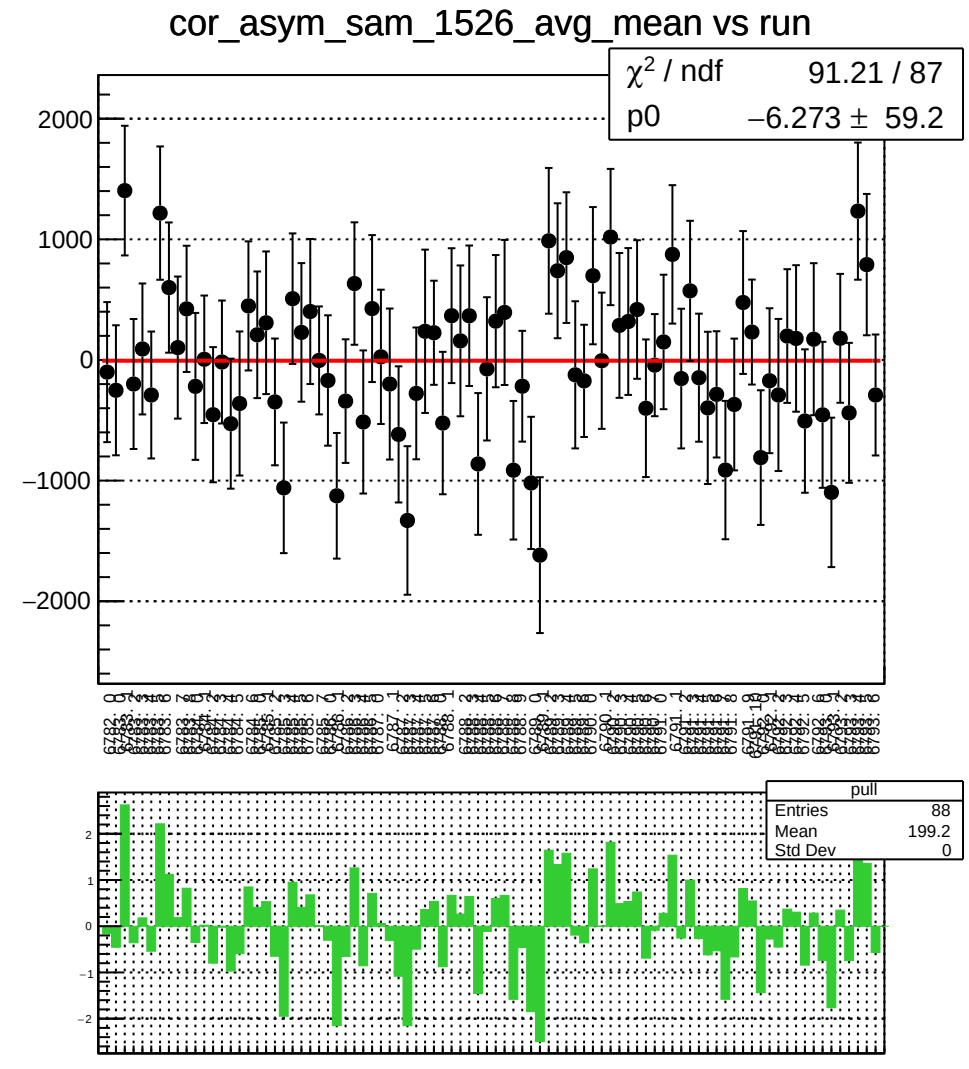
reg_asym_sam_1526_avg_rms vs run

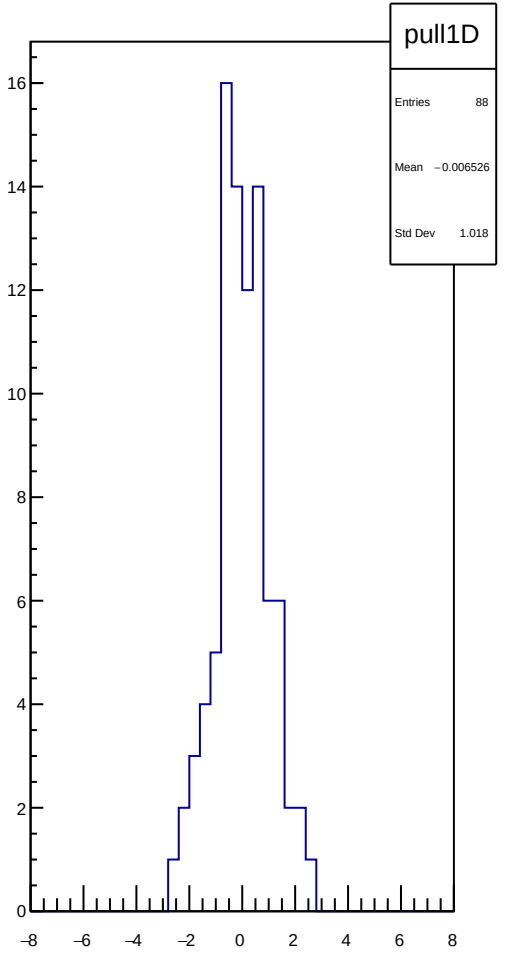


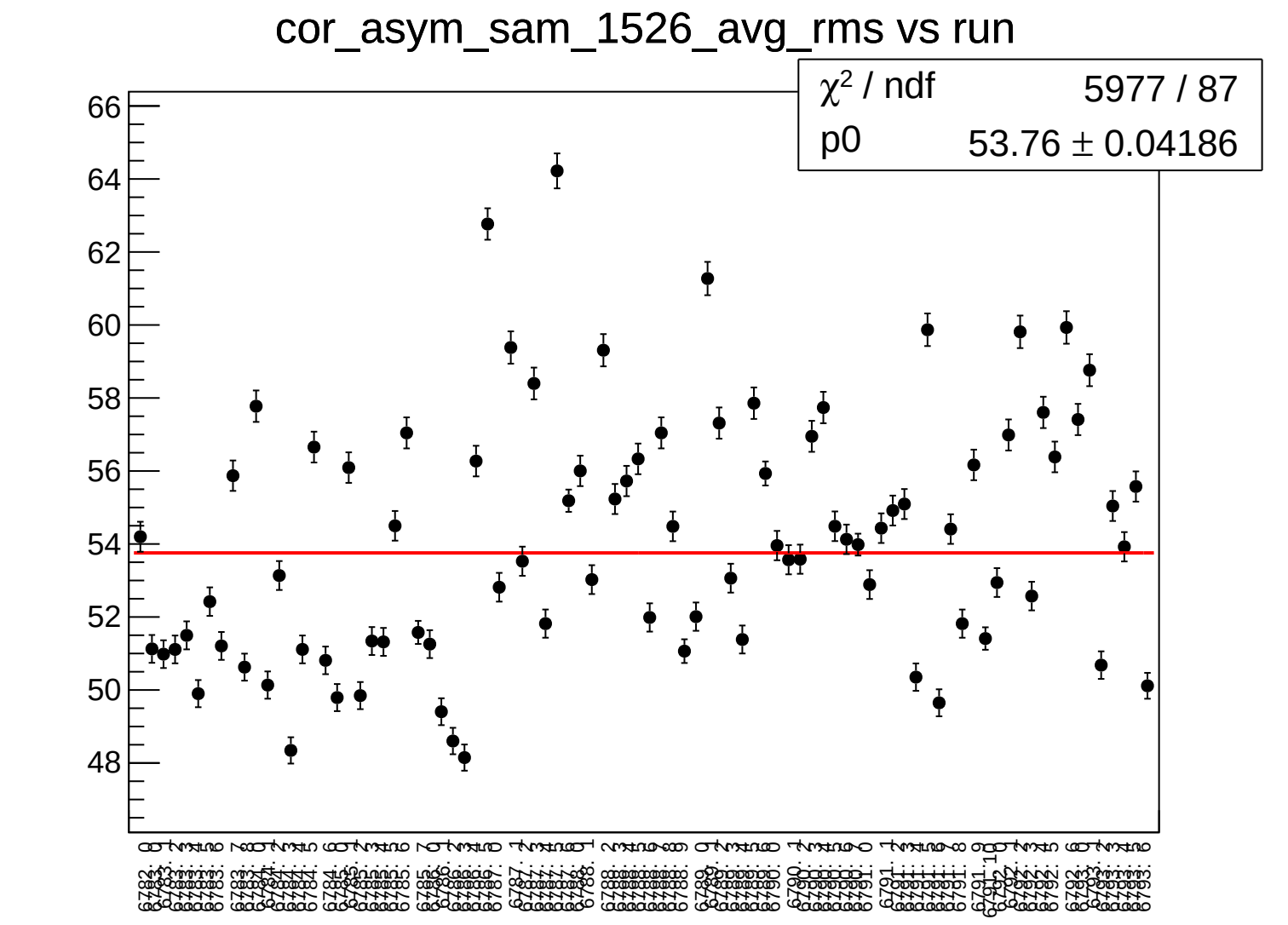

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 80.01 / 87
p0 −1220 ± 363.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −242.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

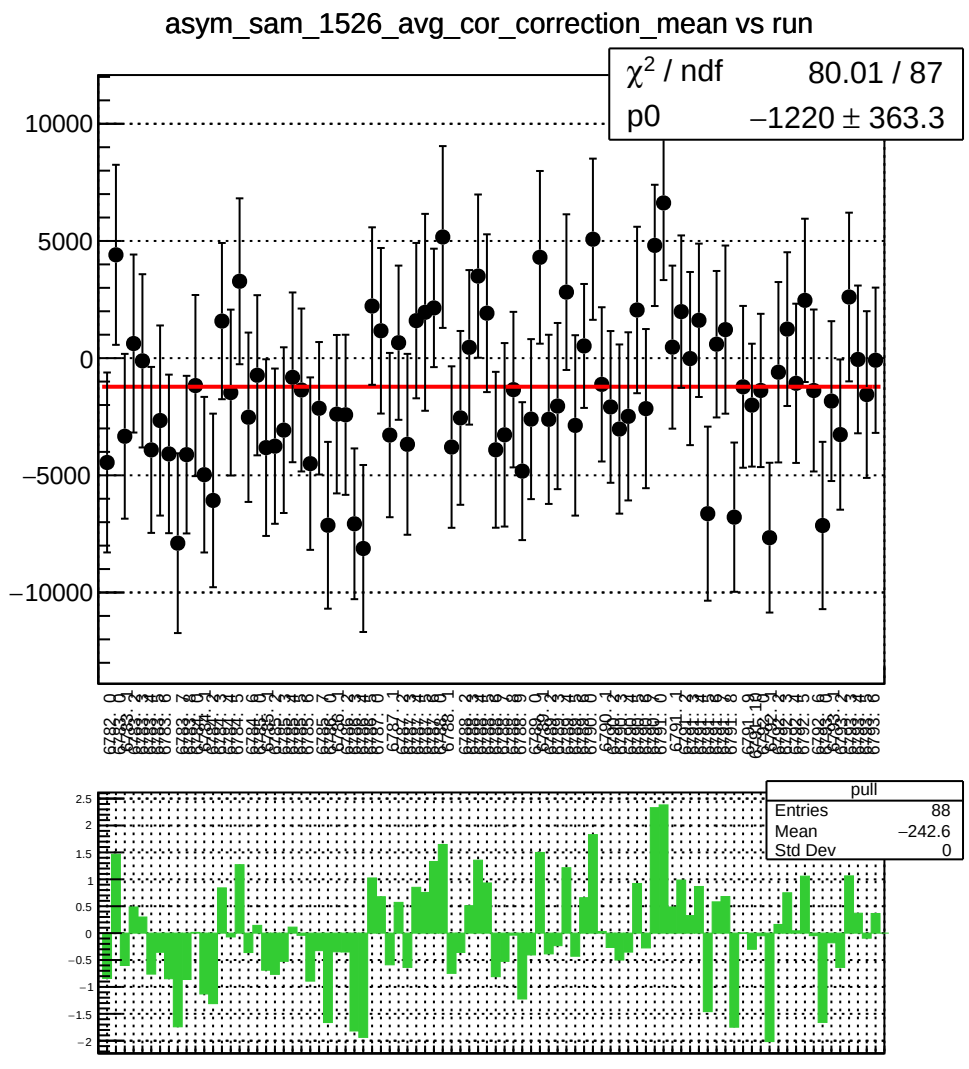

pull1D
Entries 88
Mean −0.01486
Std Dev 0.9534
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

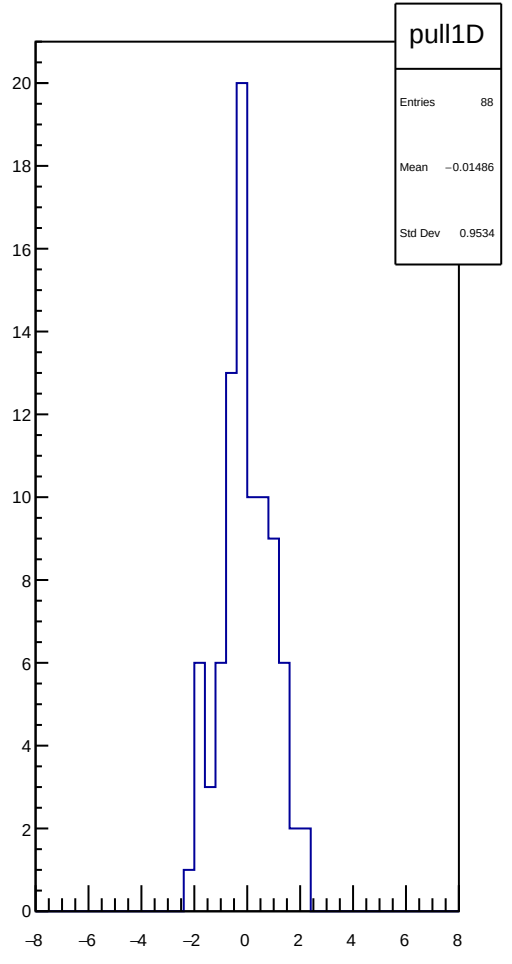

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 5639 / 87
p0 329.9 ± 0.2569
400
380
360
340
320
300

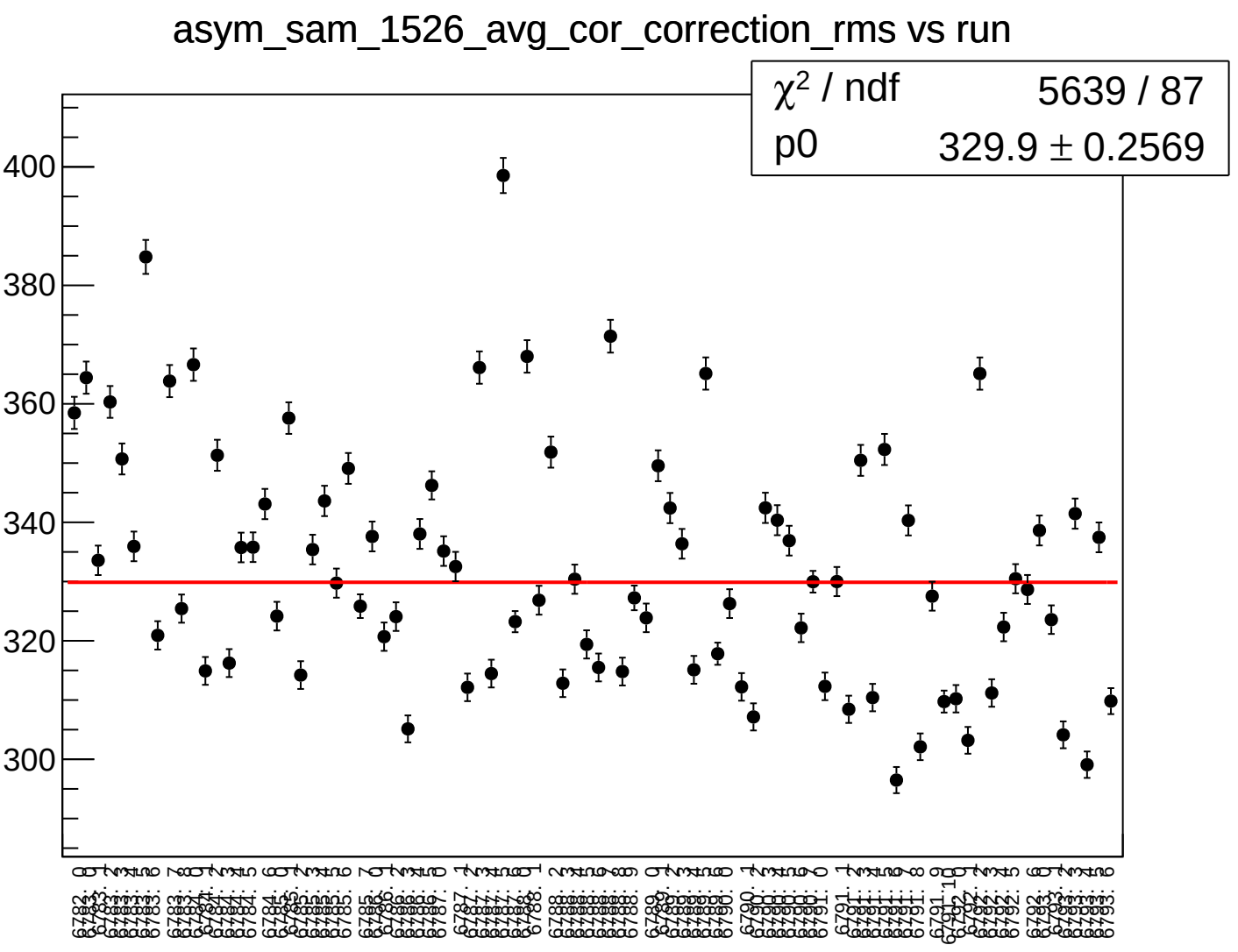

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 91.21 / 87
p0 −6.273 ± 59.2
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 199.2
Std Dev 0
2
1
0
−1
−2

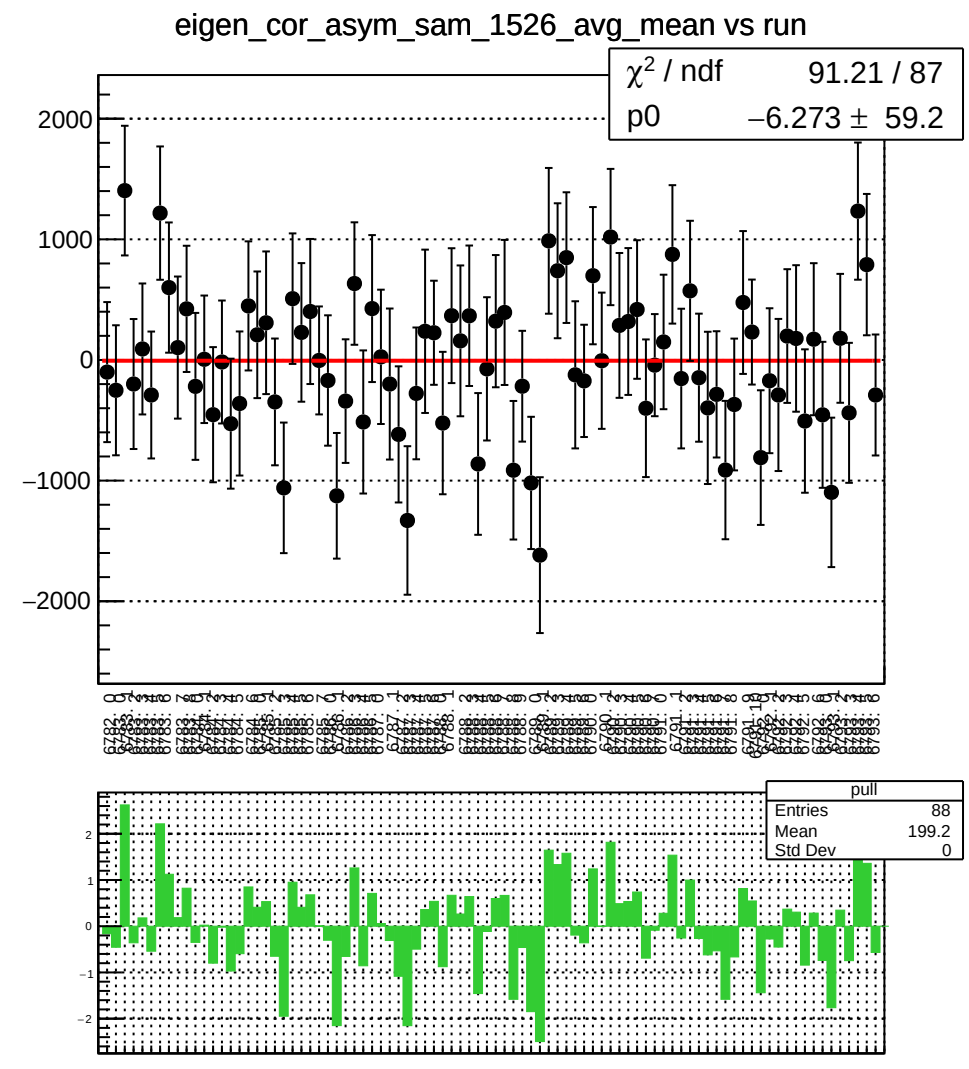

pull1D
Entries 88
Mean −0.006526
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

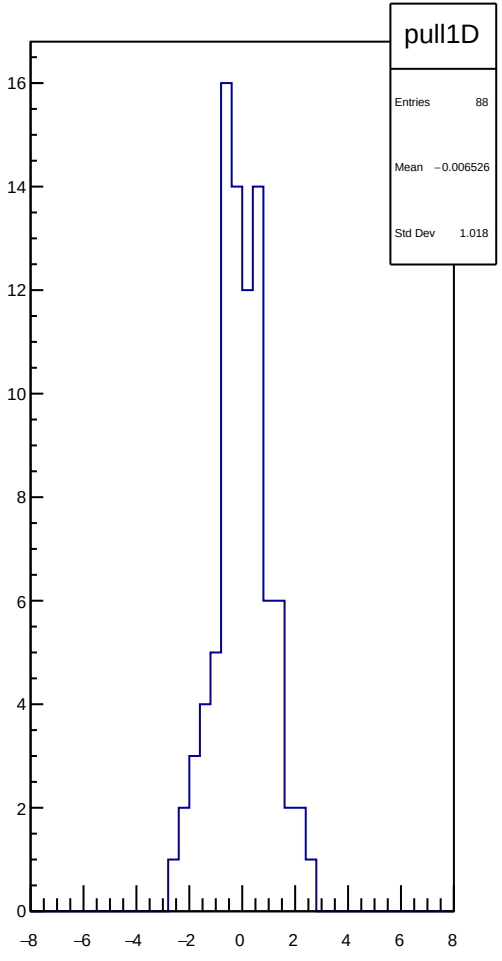

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 5977 / 87
p0 53.76 ± 0.04186
66
64
62
60
58
56
54
52
50
48

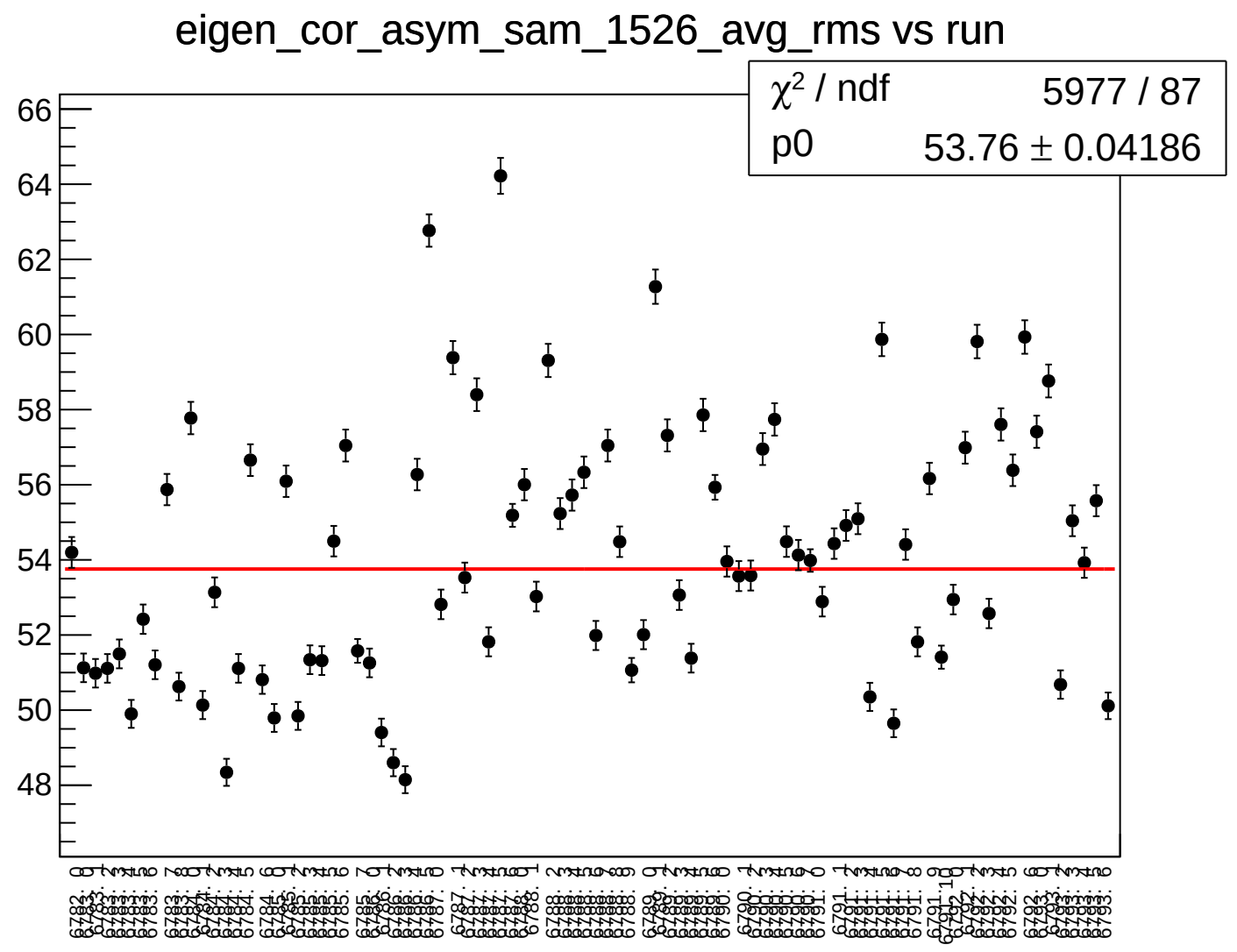

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 80.01 / 87
p0 −1220 ± 363.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −242.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

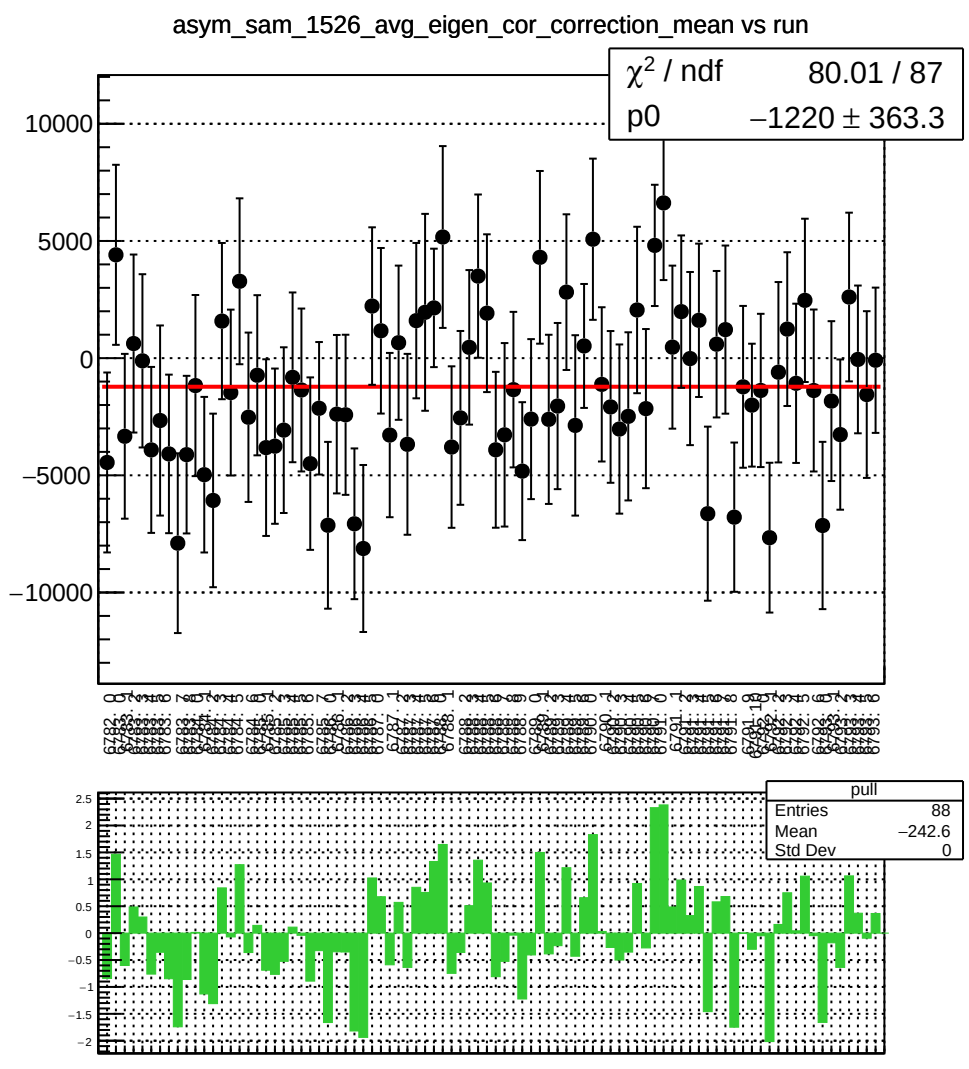

pull1D
Entries 88
Mean −0.01486
Std Dev 0.9534
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

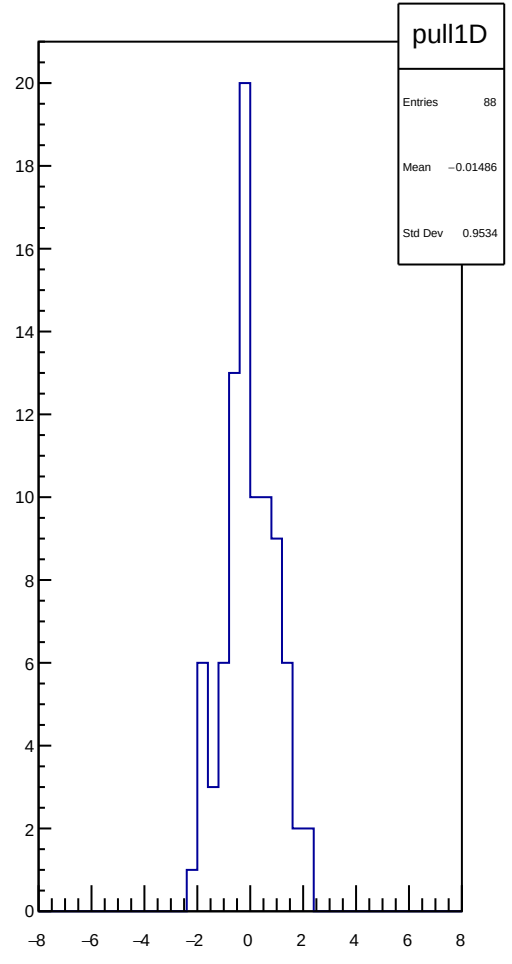

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 5639 / 87
p0 329.9 ± 0.2569
400
380
360
340
320
300

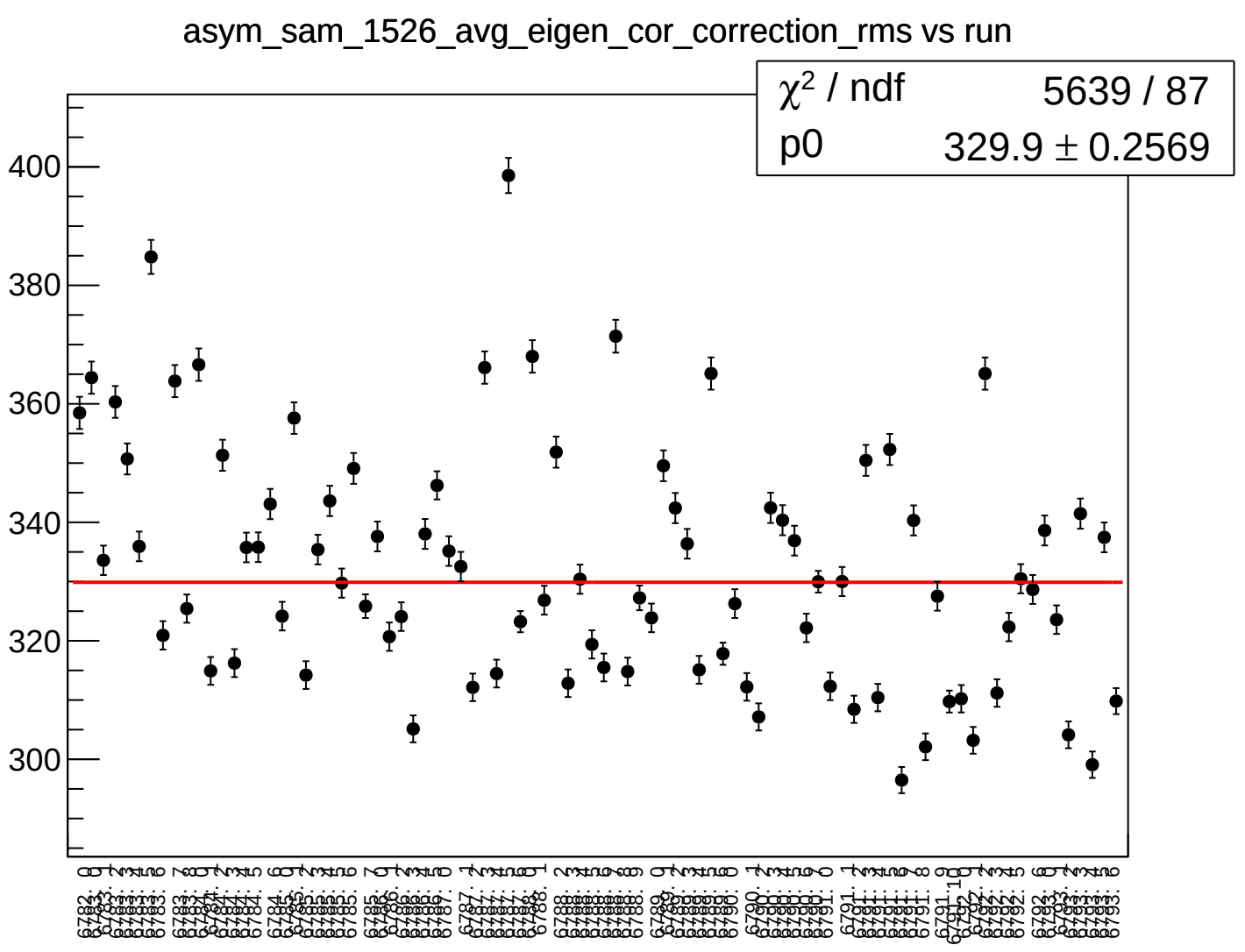

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 91.21 / 87
p0 −6.273 ± 59.2
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 199.2
Std Dev 0
2
1
0
−1
−2

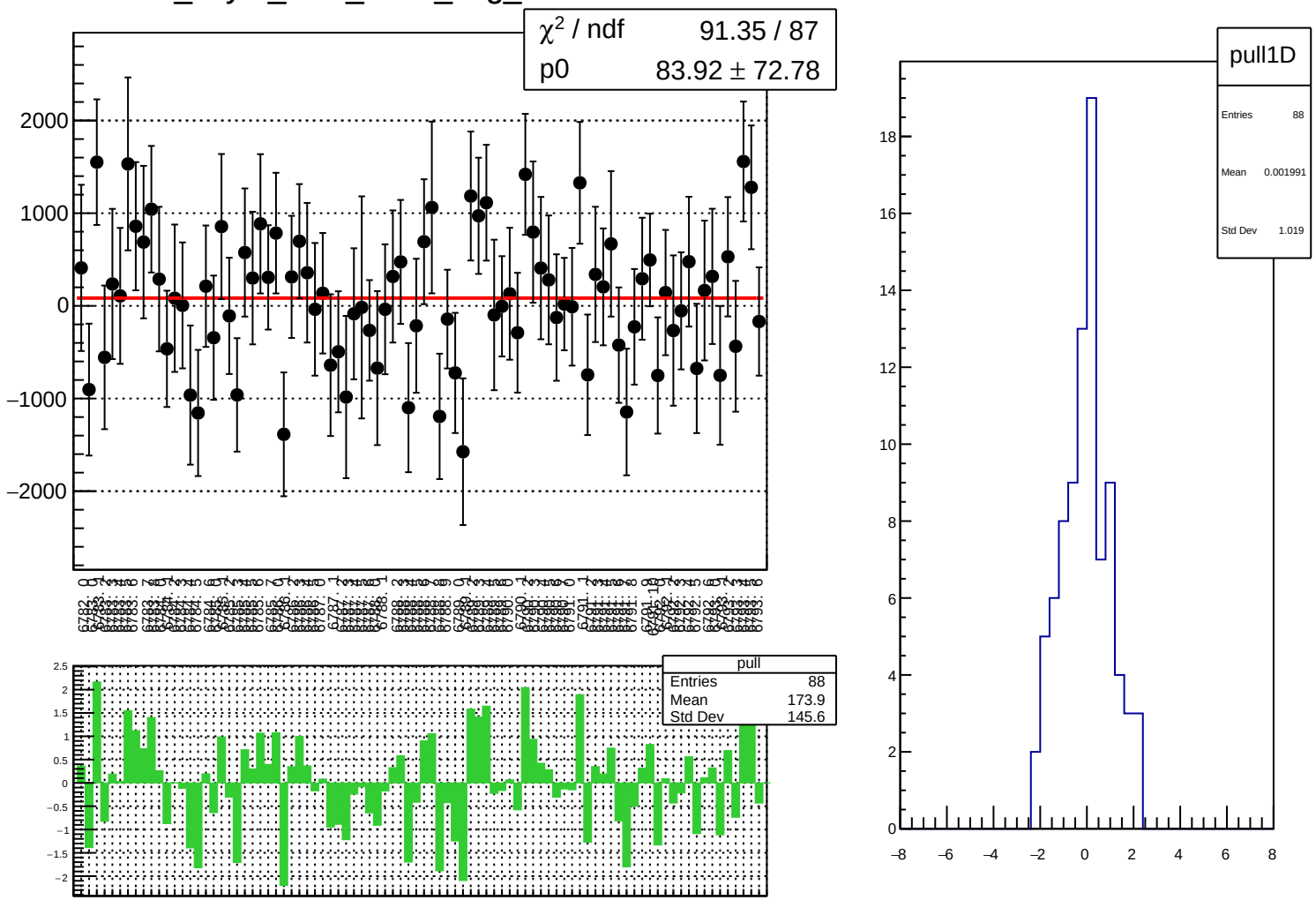

pull1D
Entries 88
Mean −0.006526
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

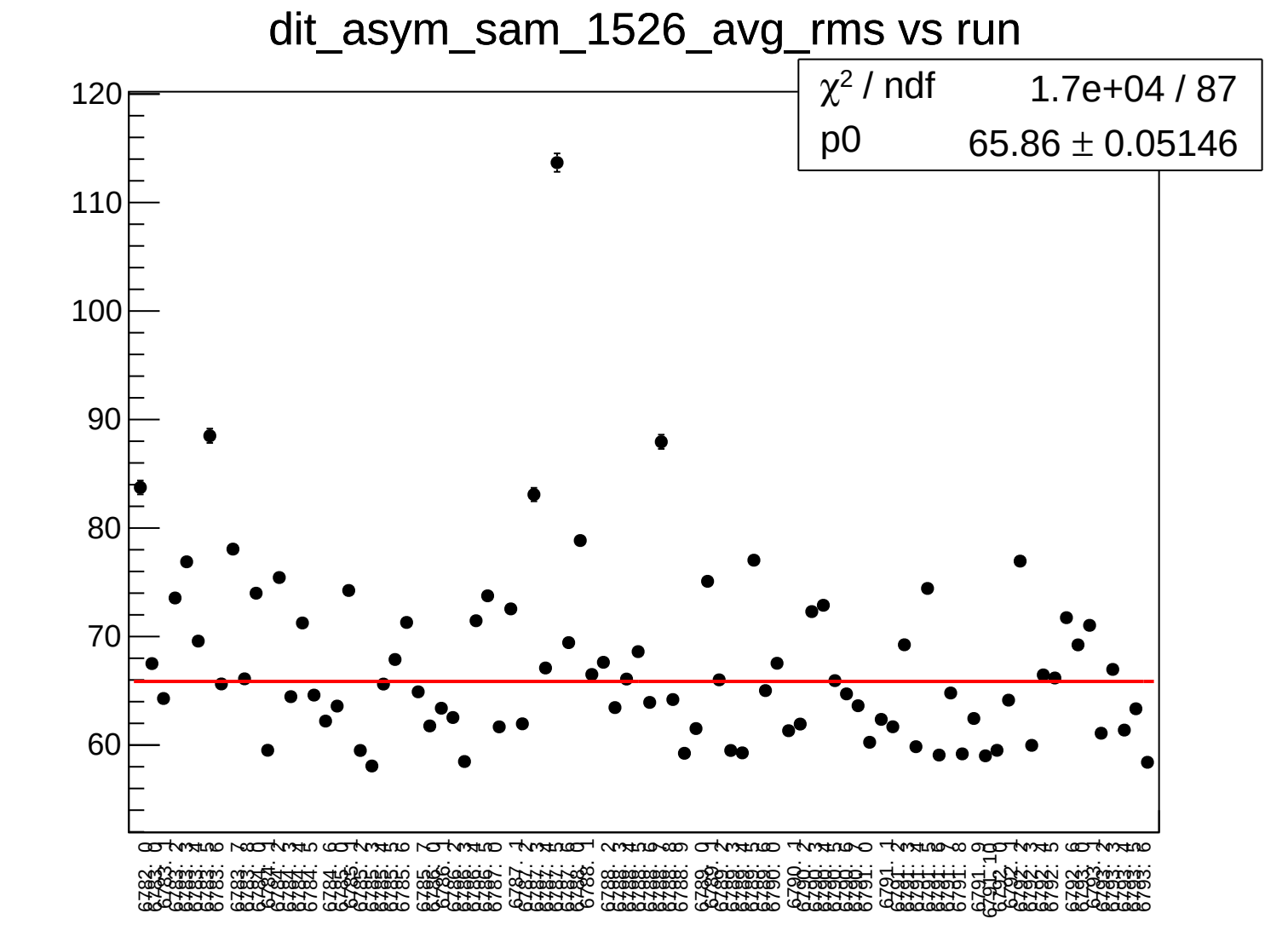

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5977 / 87
p0 53.76 ± 0.04186
66
64
62
60
58
56
54
52
50
48

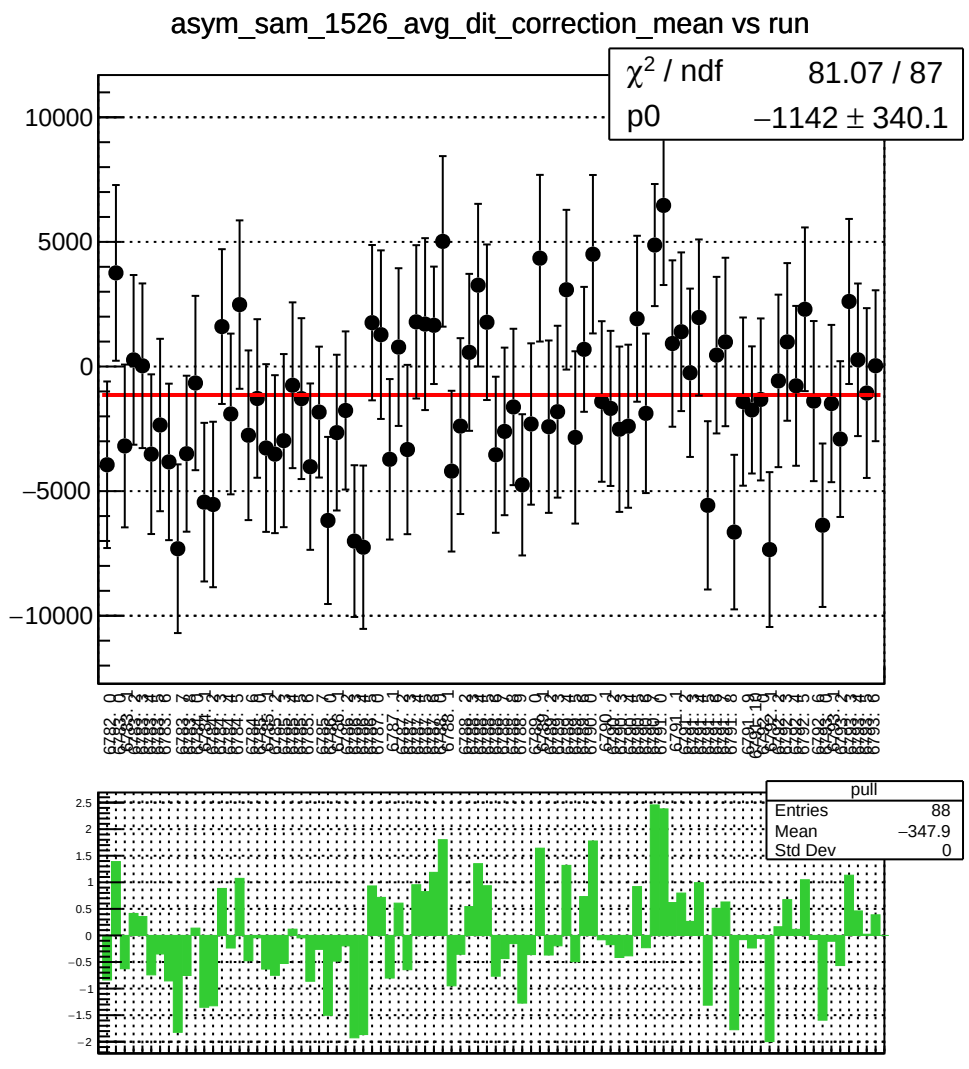

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.01 / 87
p0 −1220 ± 363.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −242.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

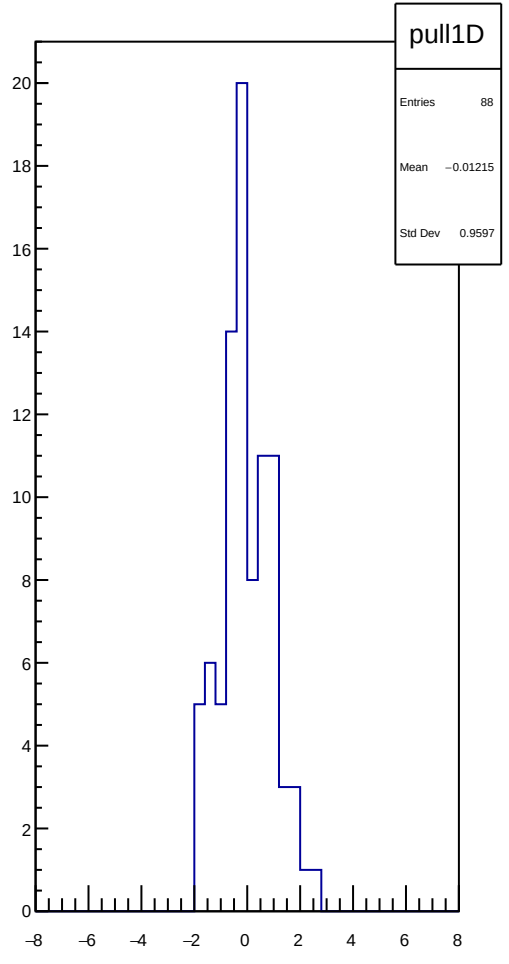

pull1D
Entries 88
Mean −0.01486
Std Dev 0.9534
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

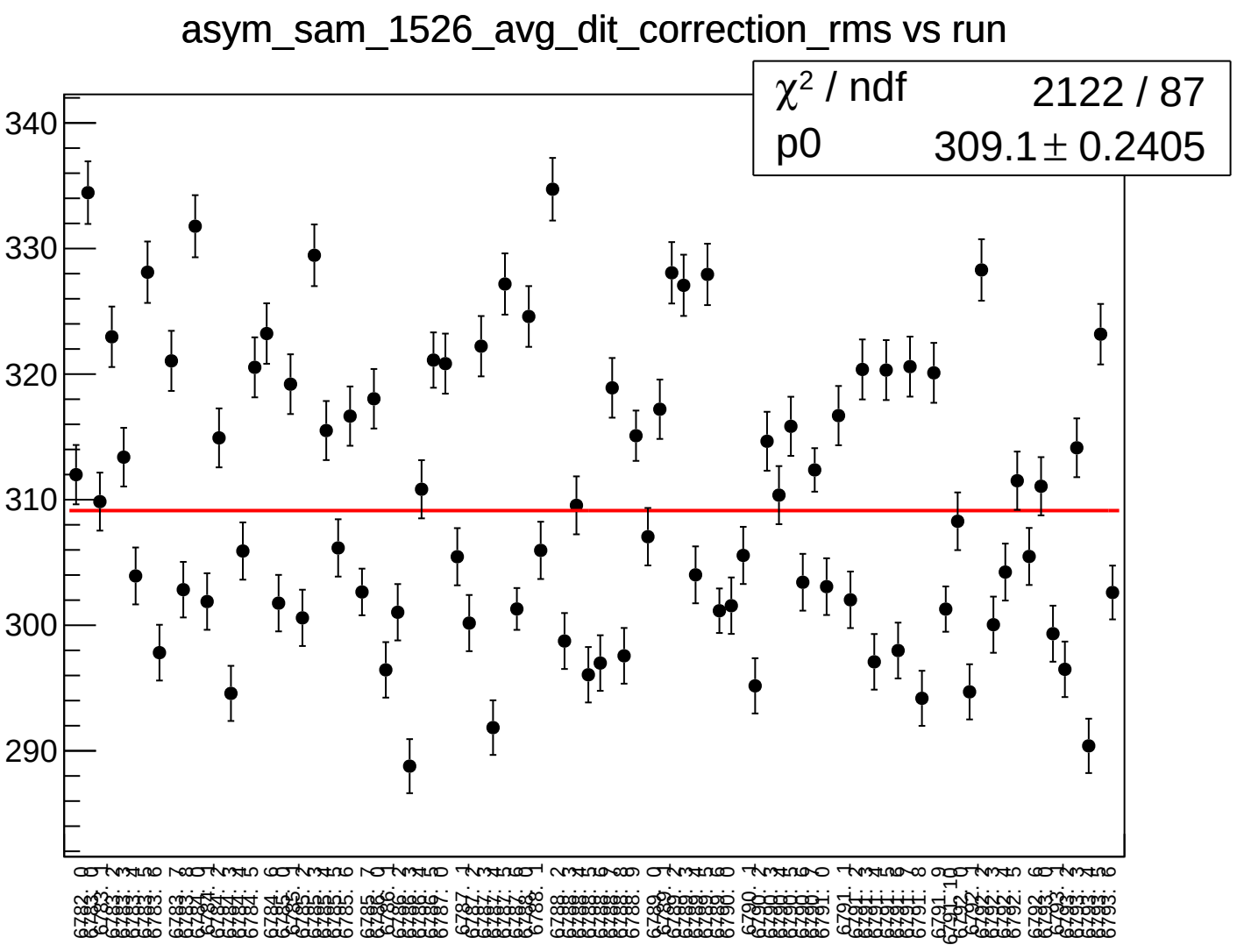

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 5639 / 87
p0 329.9 ± 0.2569
400
380
360
340
320
300

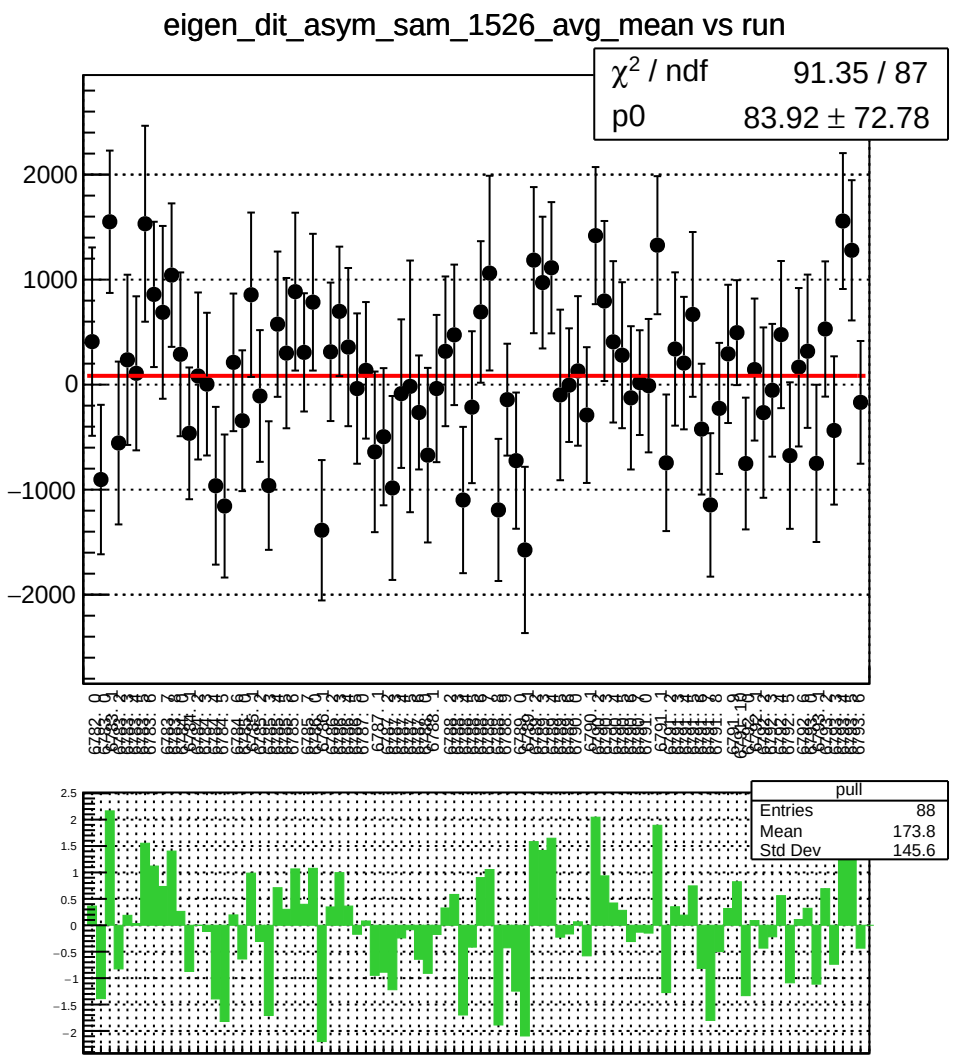

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 91.35 / 87
p0 83.92 ± 72.78
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 173.9
Std Dev 145.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.001991
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

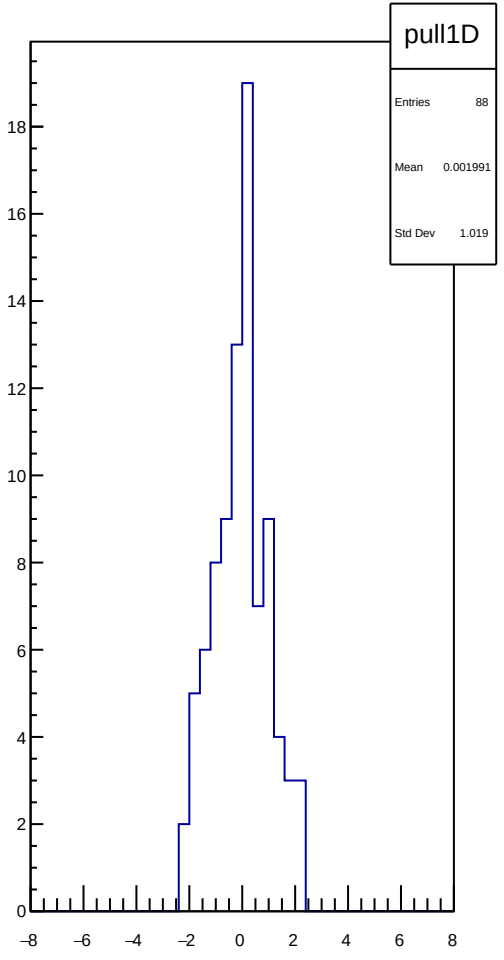

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.7e+04 / 87
p0 65.86 ± 0.05146
120
110
100
90
80
70
60

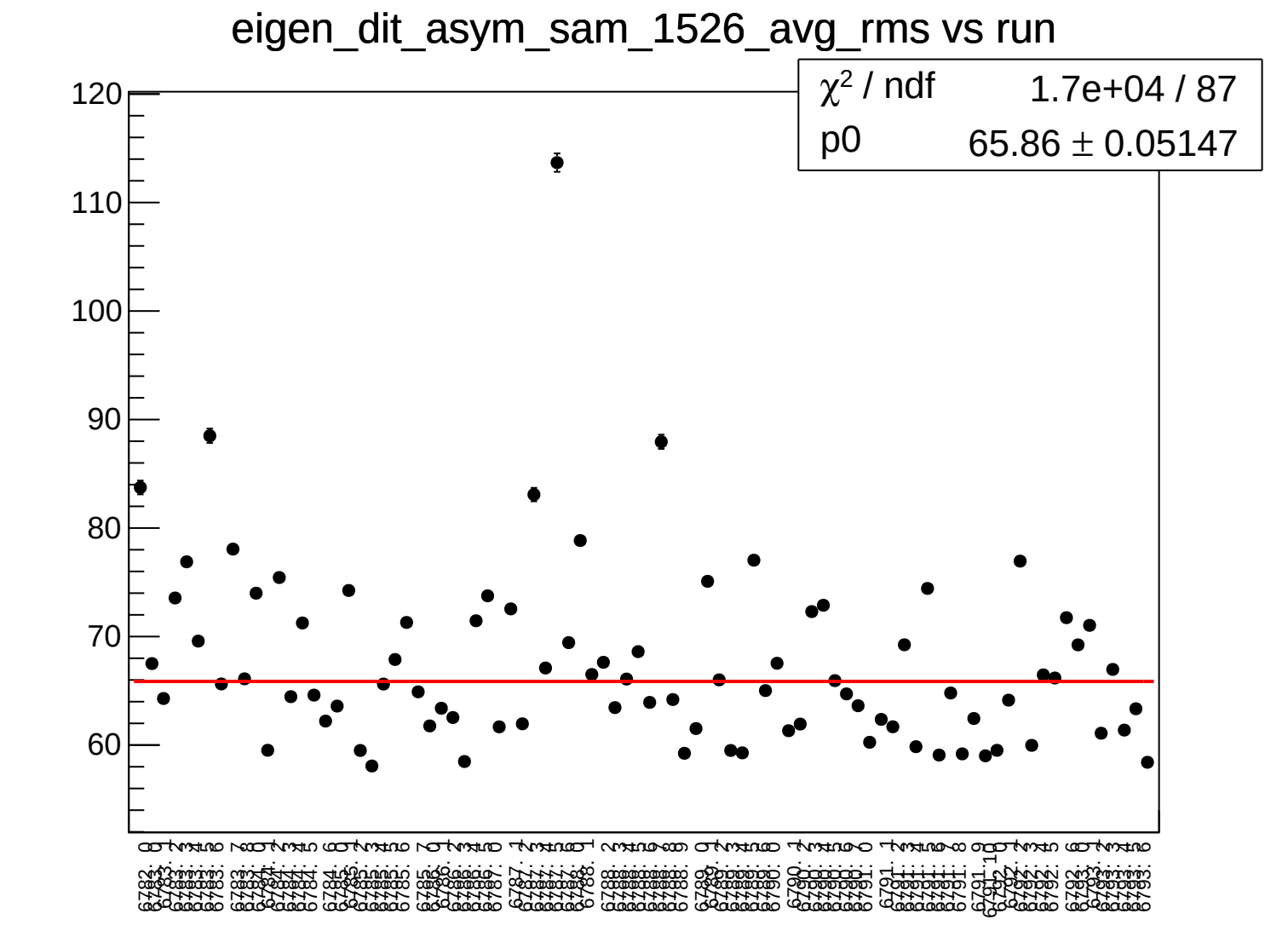

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 81.07 / 87
p0 −1142 ± 340.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −347.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

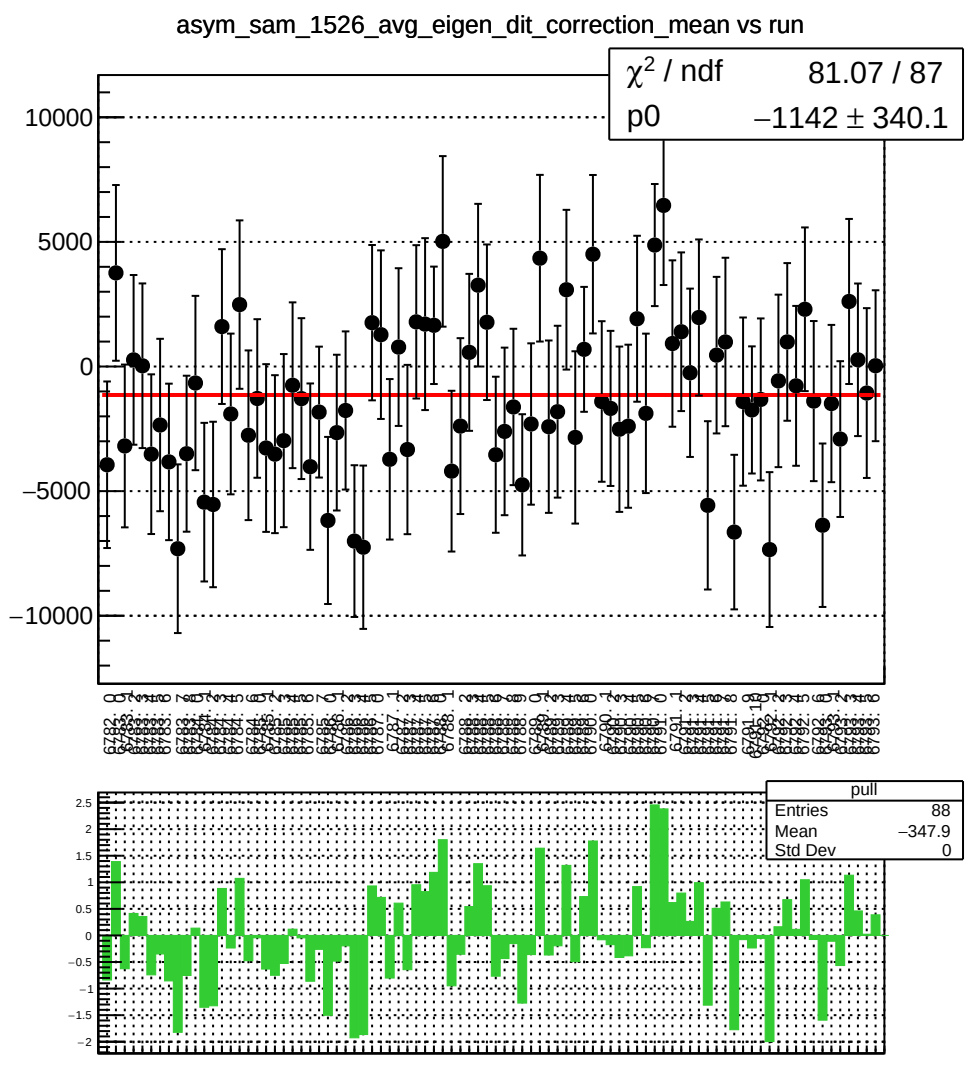

pull1D
Entries 88
Mean −0.01215
Std Dev 0.9597
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

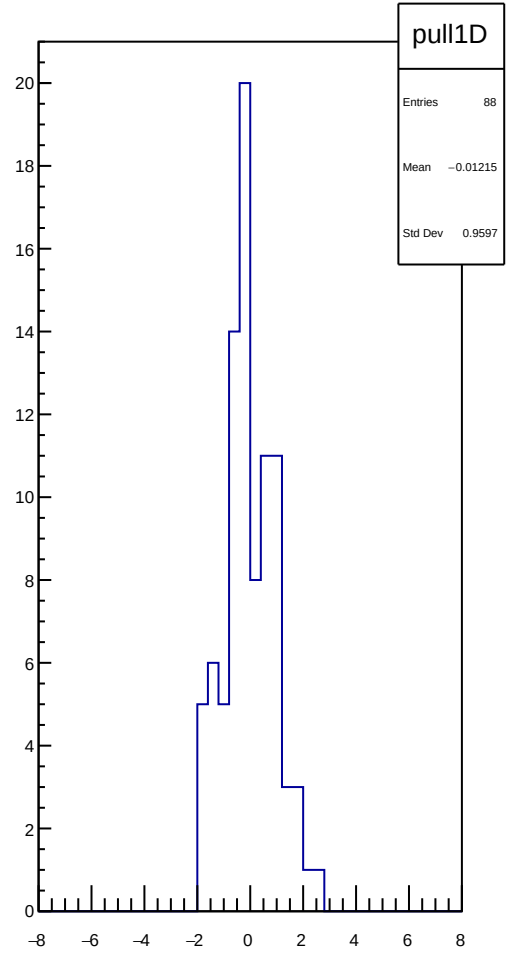

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2122 / 87
p0 309.1 ± 0.2405
340
330
320
310
300
290

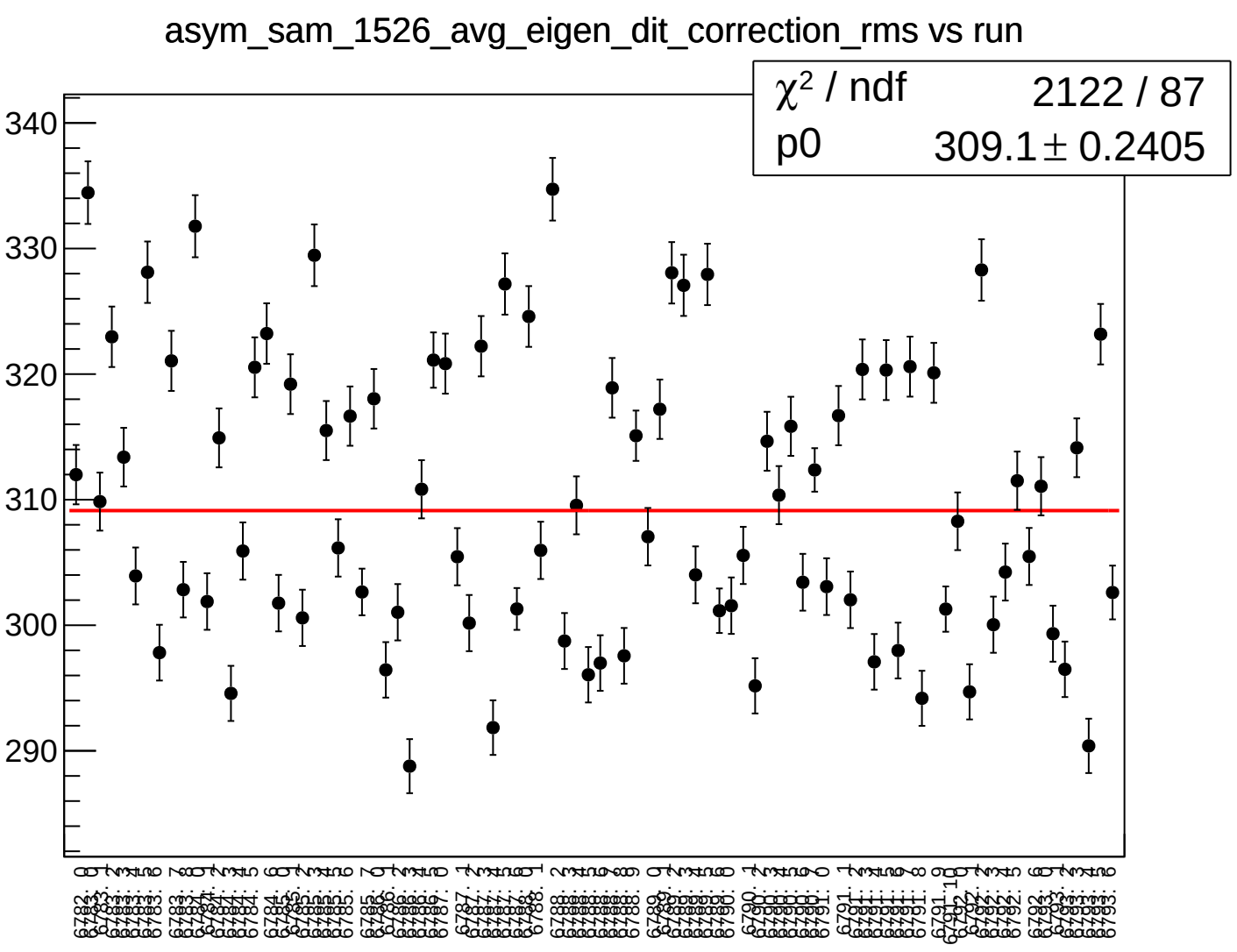

eigen_dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 91.35 / 87
p0 83.92 ± 72.78
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 173.8
Std Dev 145.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

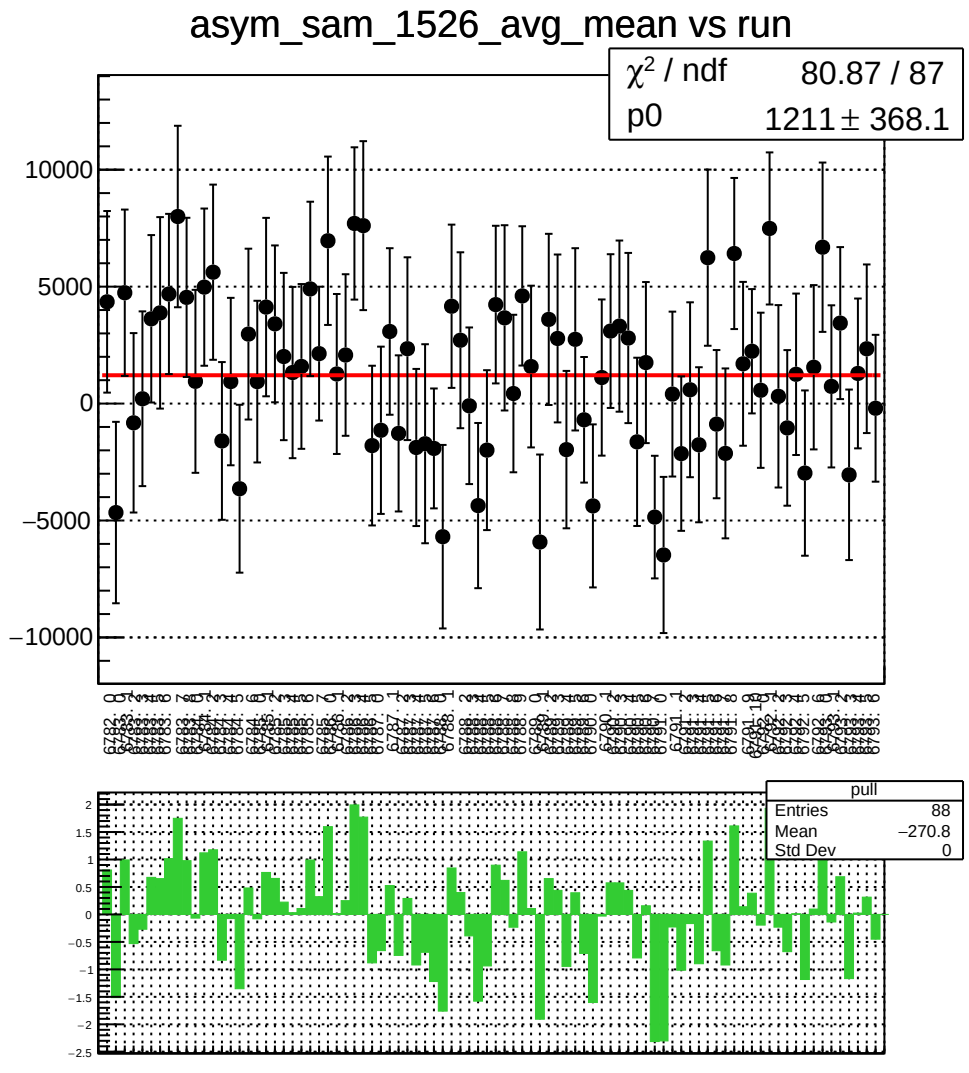

pull1D
Entries 88
Mean 0.001991
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

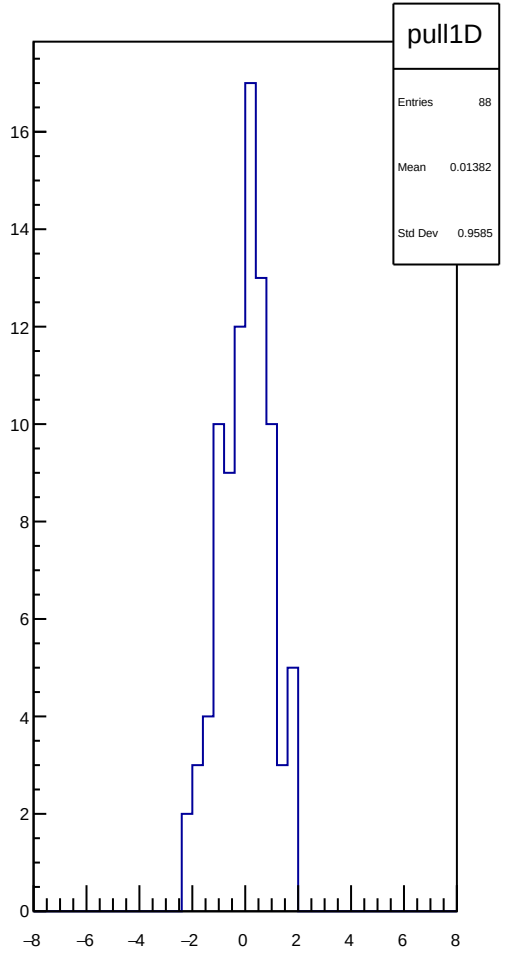

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.7e+04 / 87
p0 65.86 ± 0.05147
120
110
100
90
80
70
60

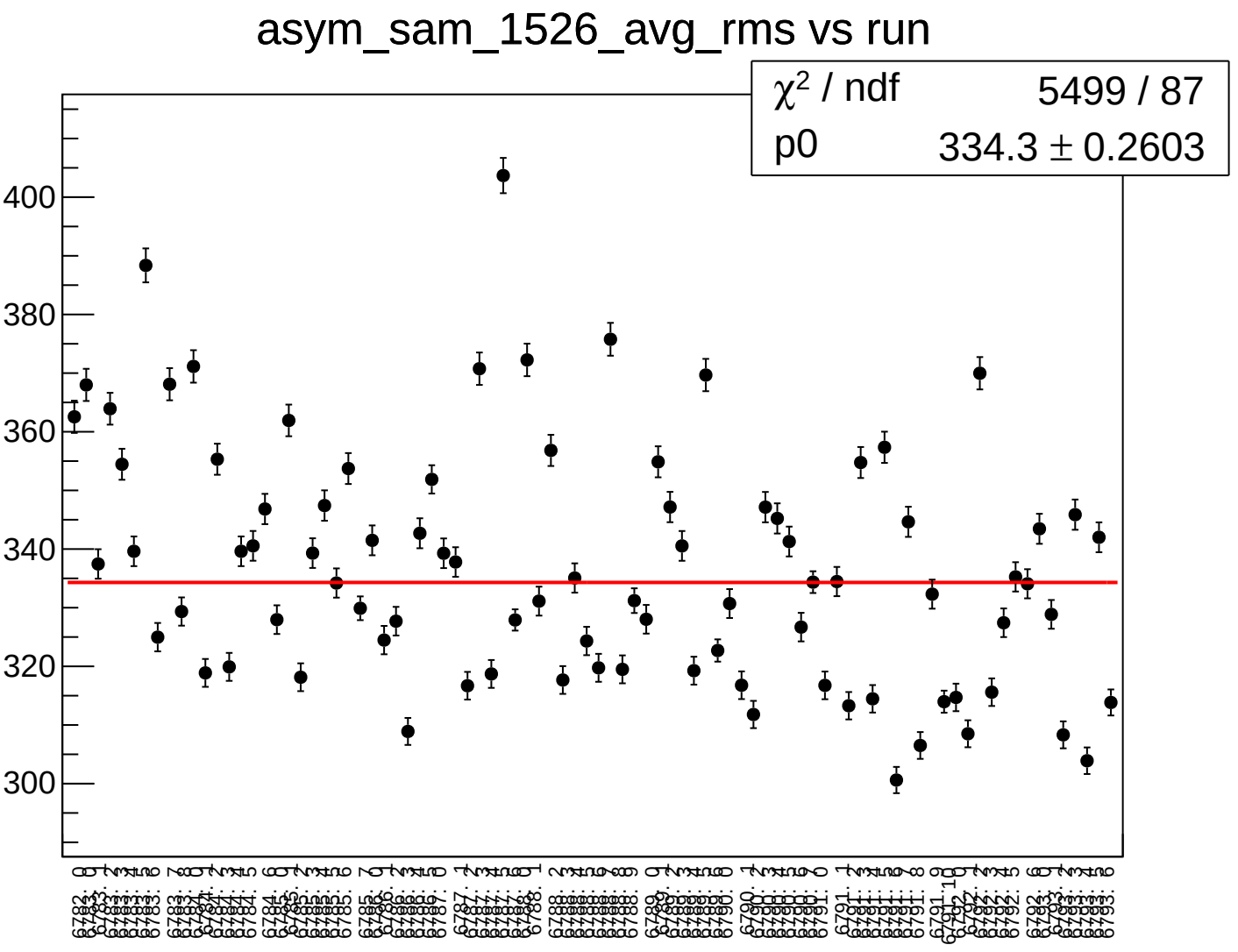

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.07 / 87
p0 −1142 ± 340.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −347.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

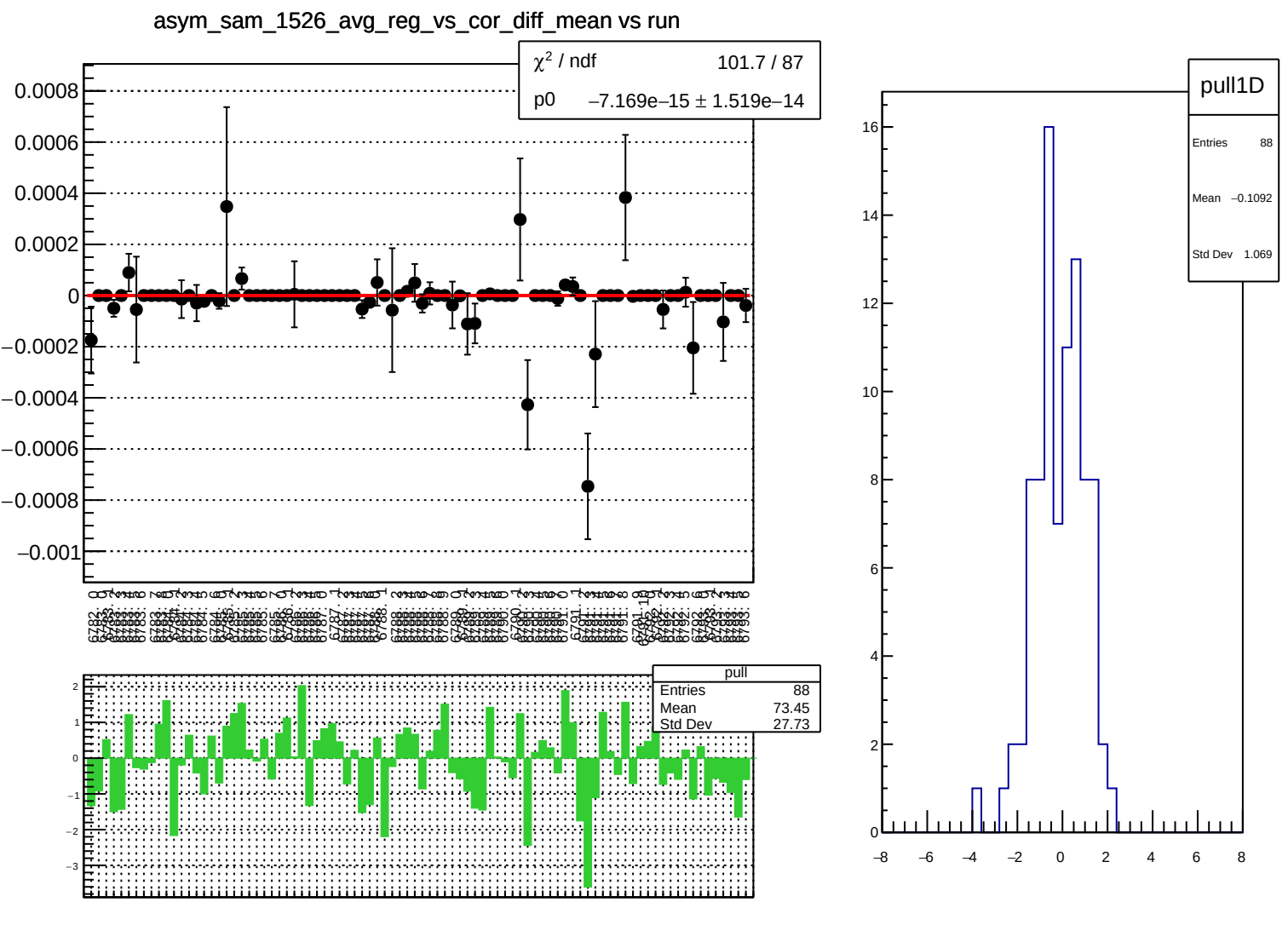

pull1D
Entries 88
Mean −0.01215
Std Dev 0.9597
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

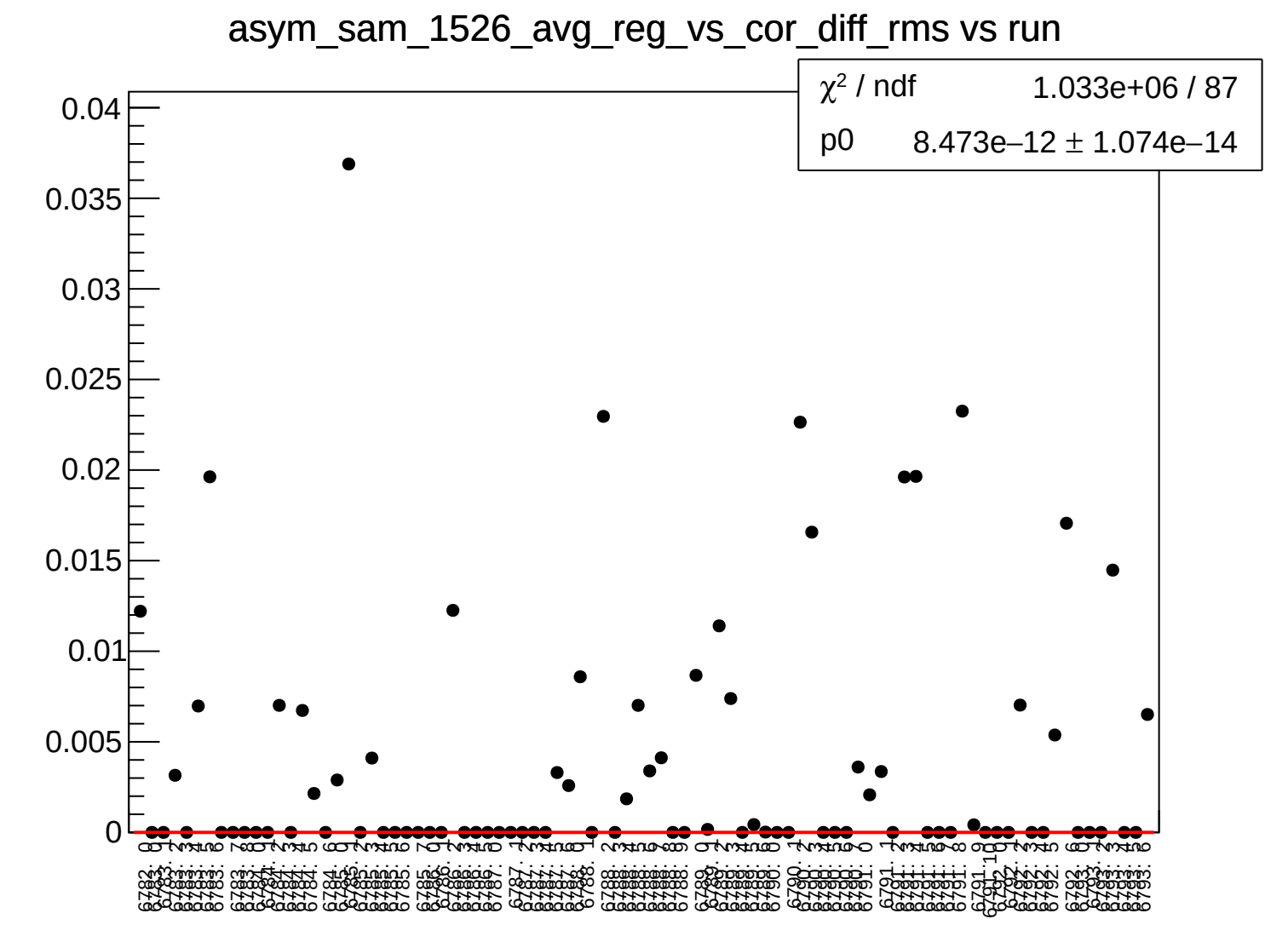

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2122 / 87
p0 309.1 ± 0.2405
340
330
320
310
300
290

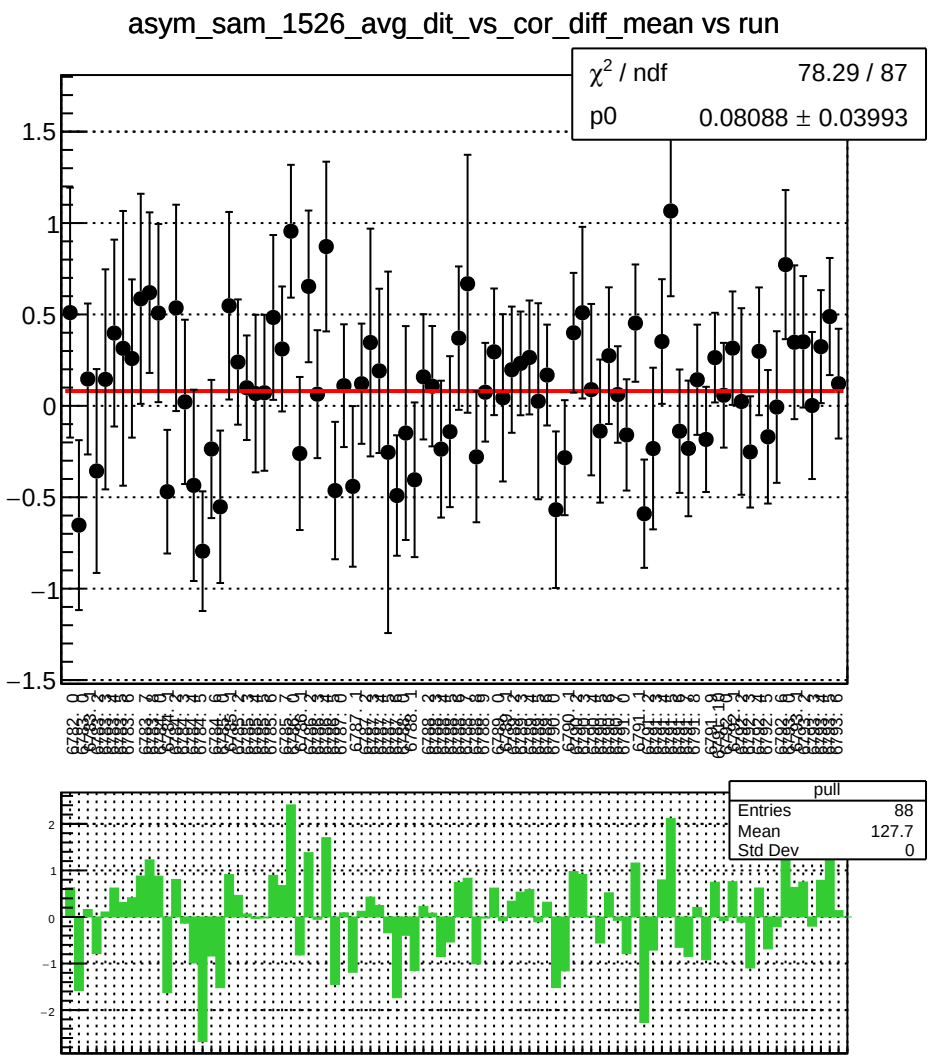

asym_sam_1526_avg_mean vs run
χ² / ndf 80.87 / 87
p0 1211 ± 368.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −270.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

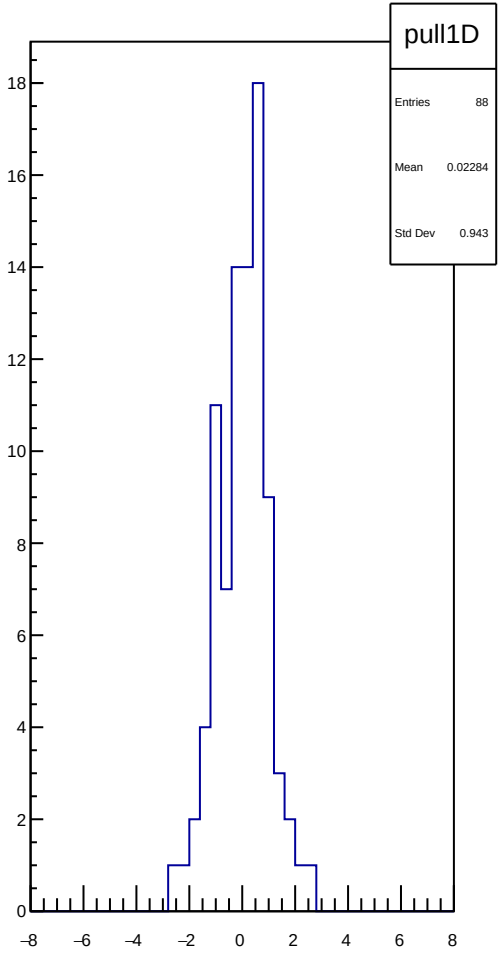

pull1D
Entries 88
Mean 0.01382
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

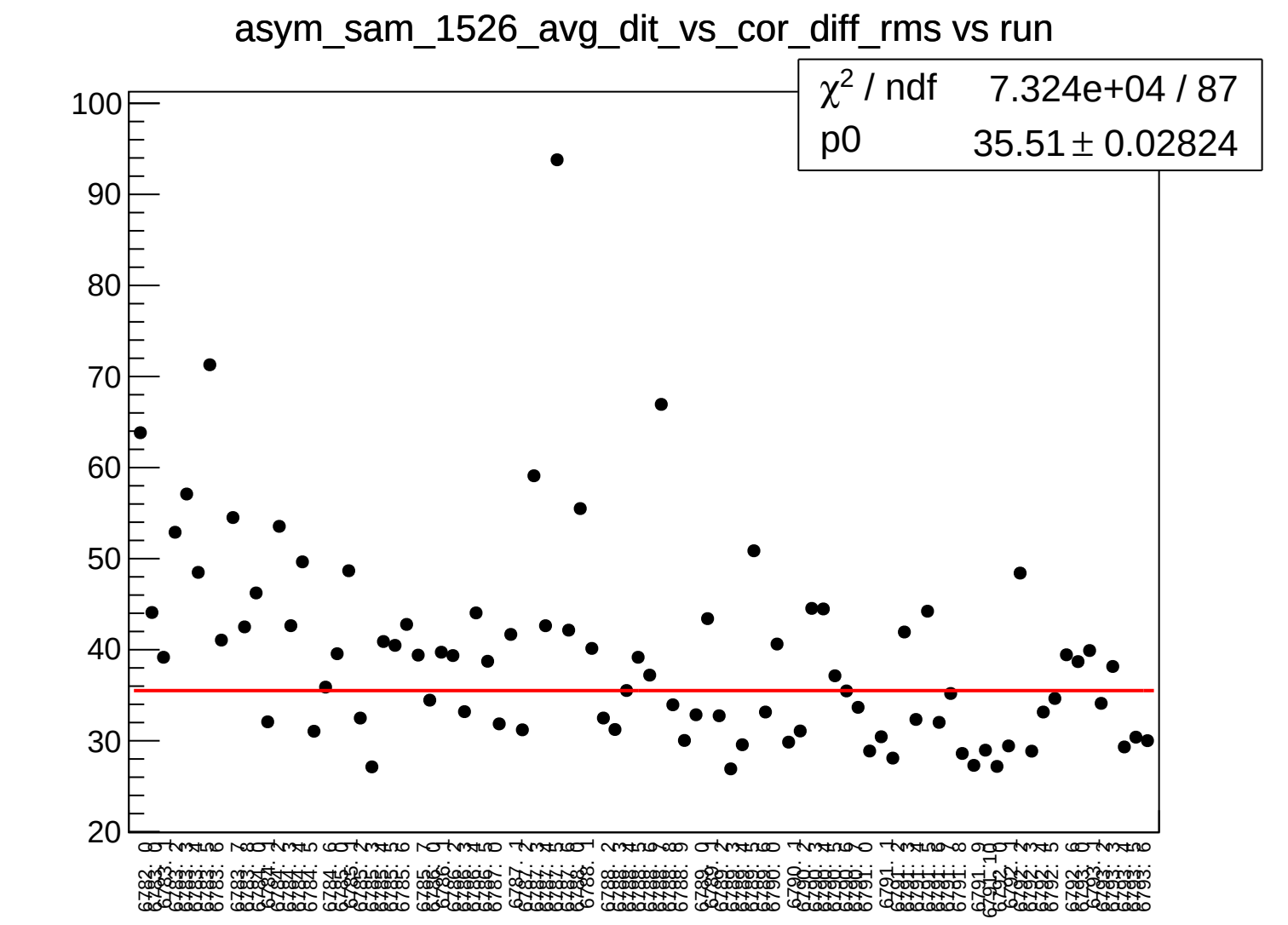

asym_sam_1526_avg_rms vs run
χ² / ndf 5499 / 87
p0 334.3 ± 0.2603
400
380
360
340
320
300

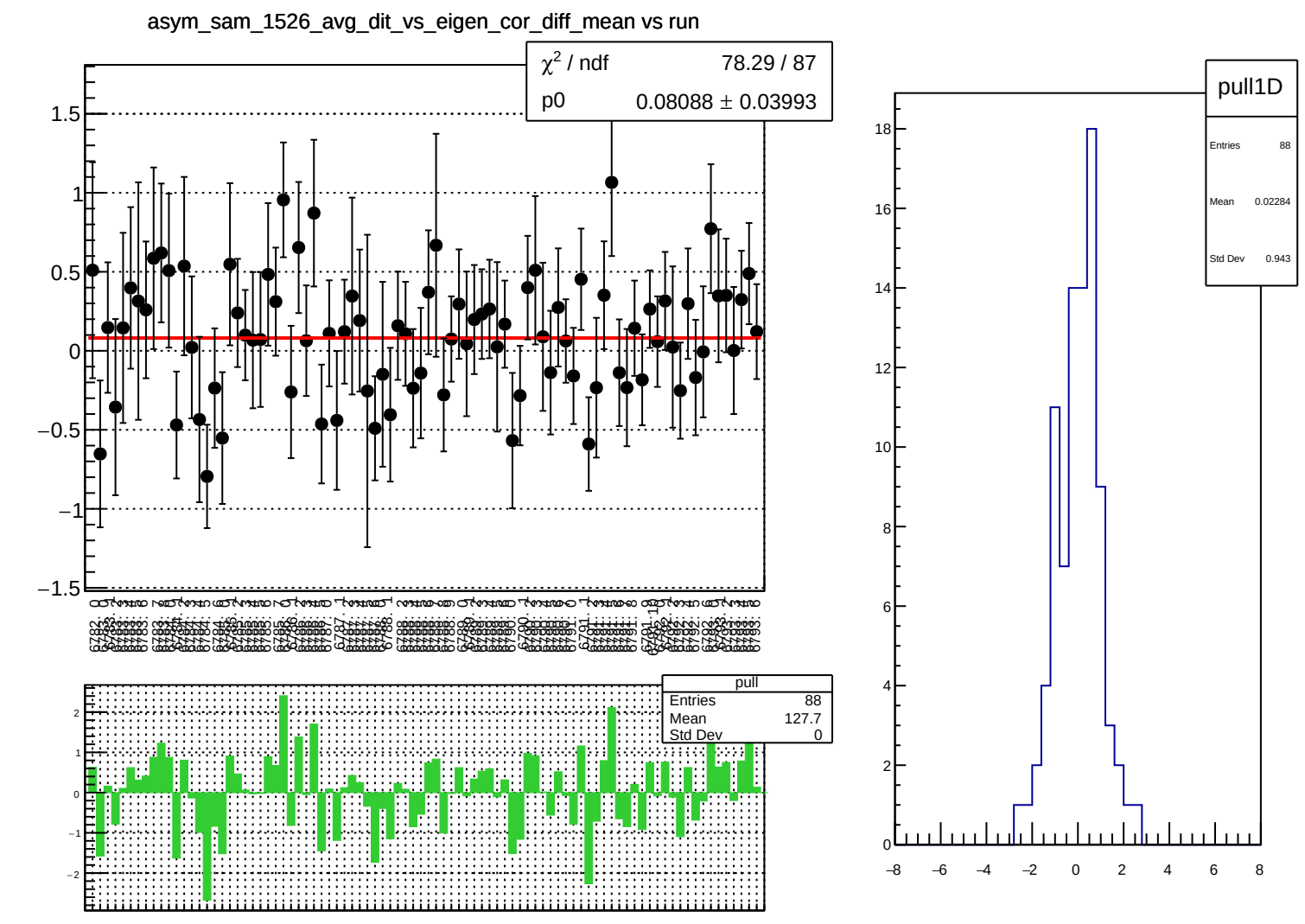

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −7.169e−15 ± 1.519e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 73.45
Std Dev 27.73
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1092
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

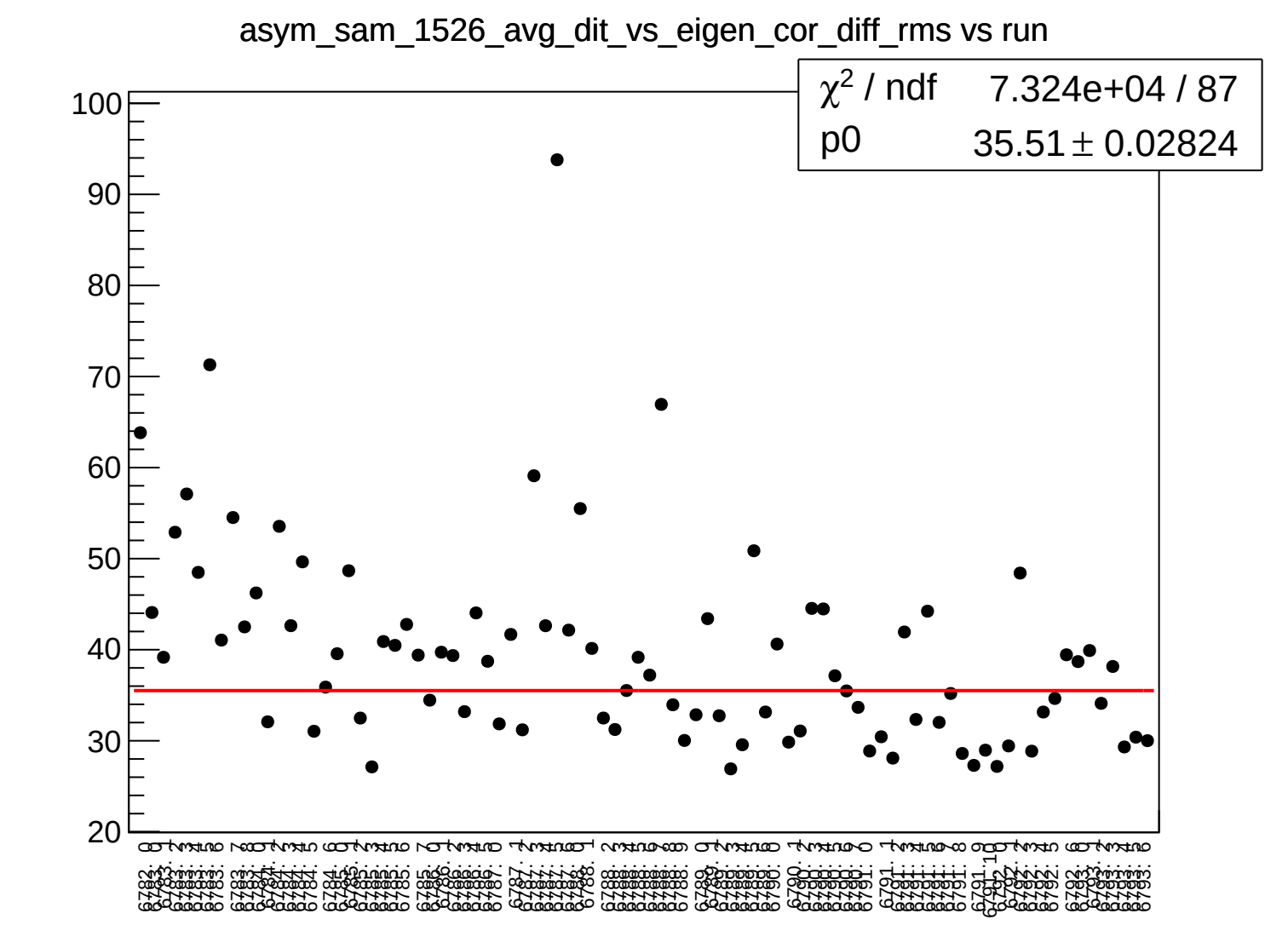

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 87
p0 8.473e−12 ± 1.074e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

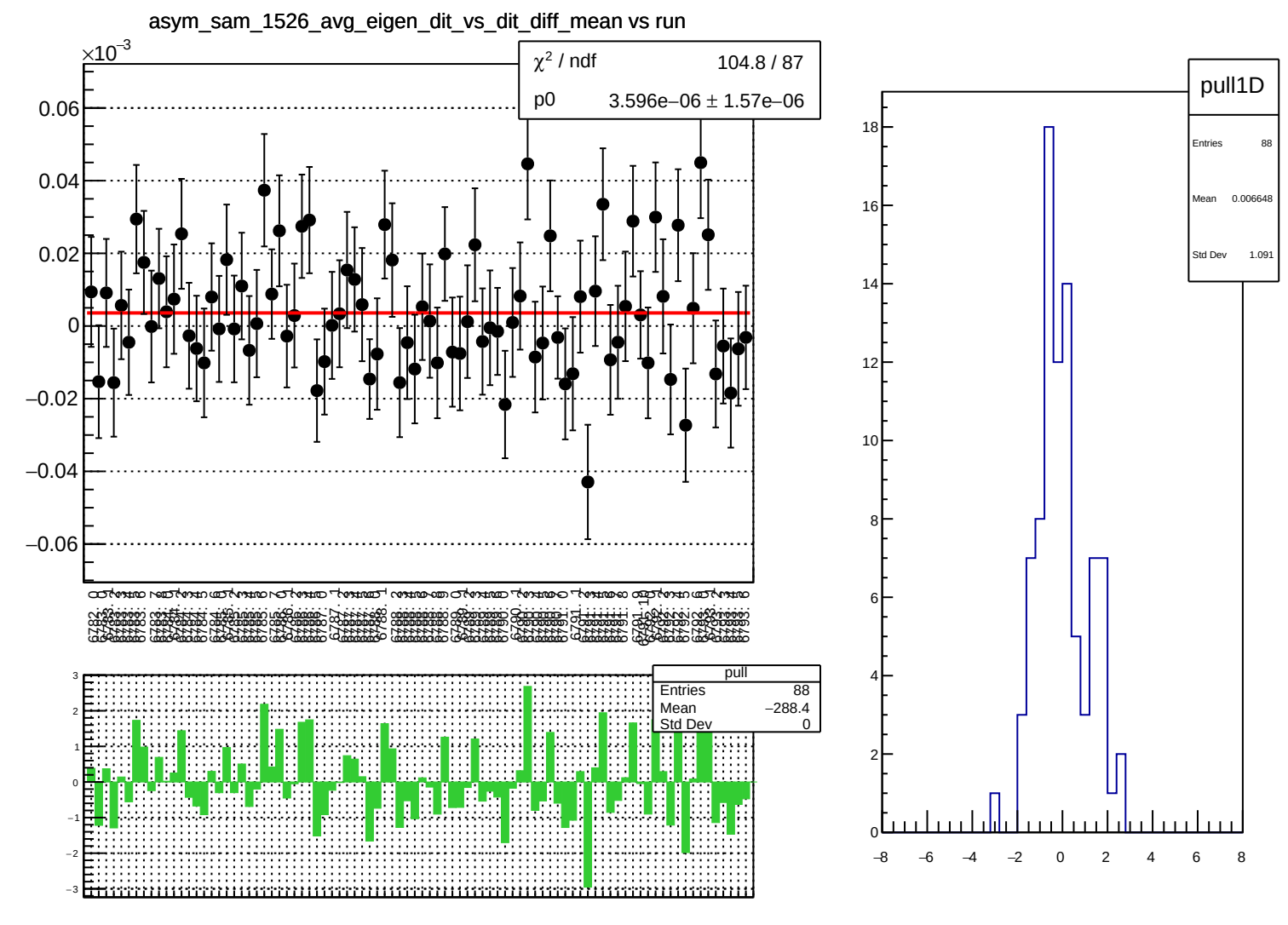

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.29 / 87
p0 0.08088 ± 0.03993
pull
Entries 88
Mean 127.7
Std Dev 0

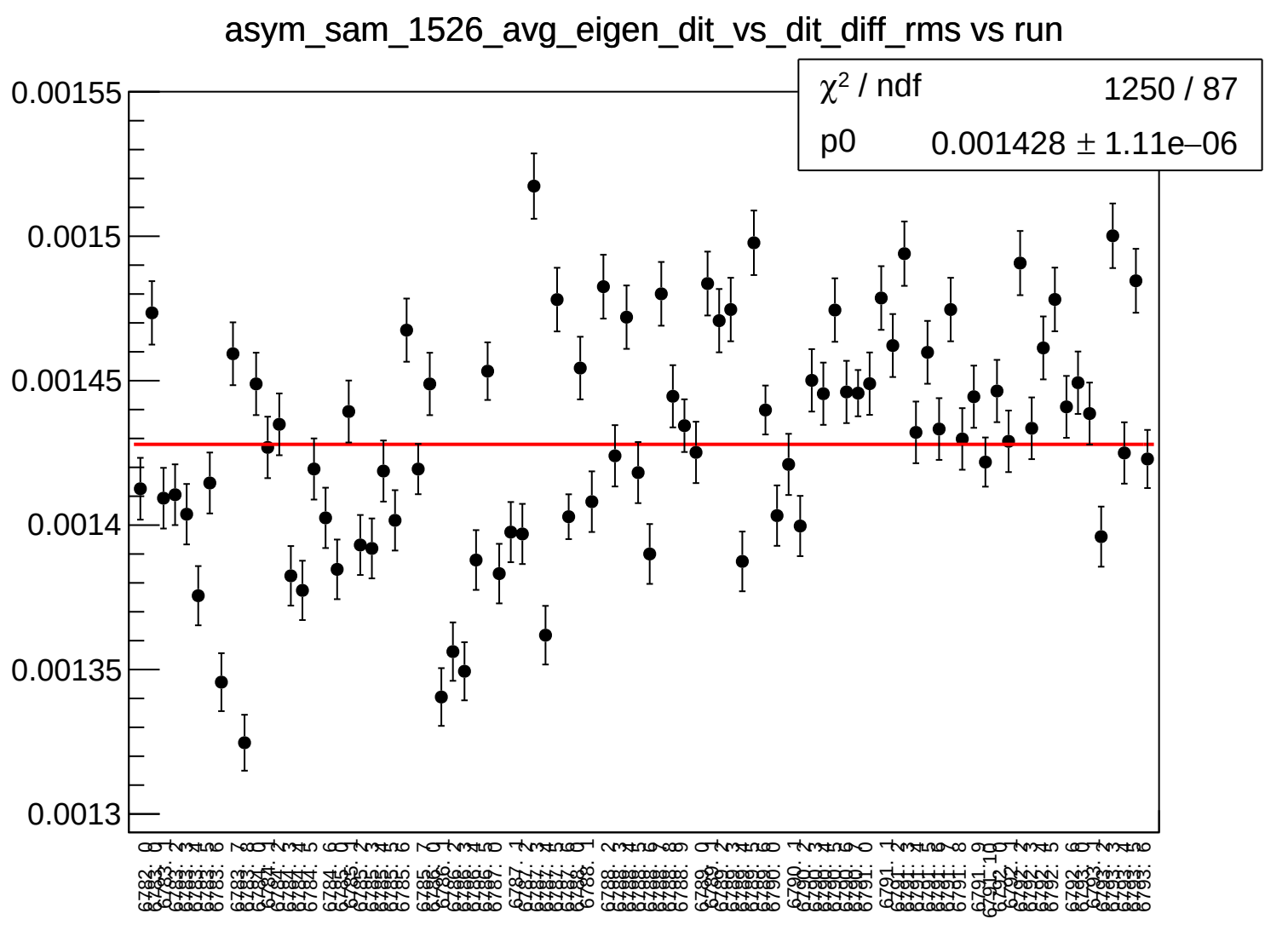

pull1D
Entries 88
Mean 0.02284
Std Dev 0.943

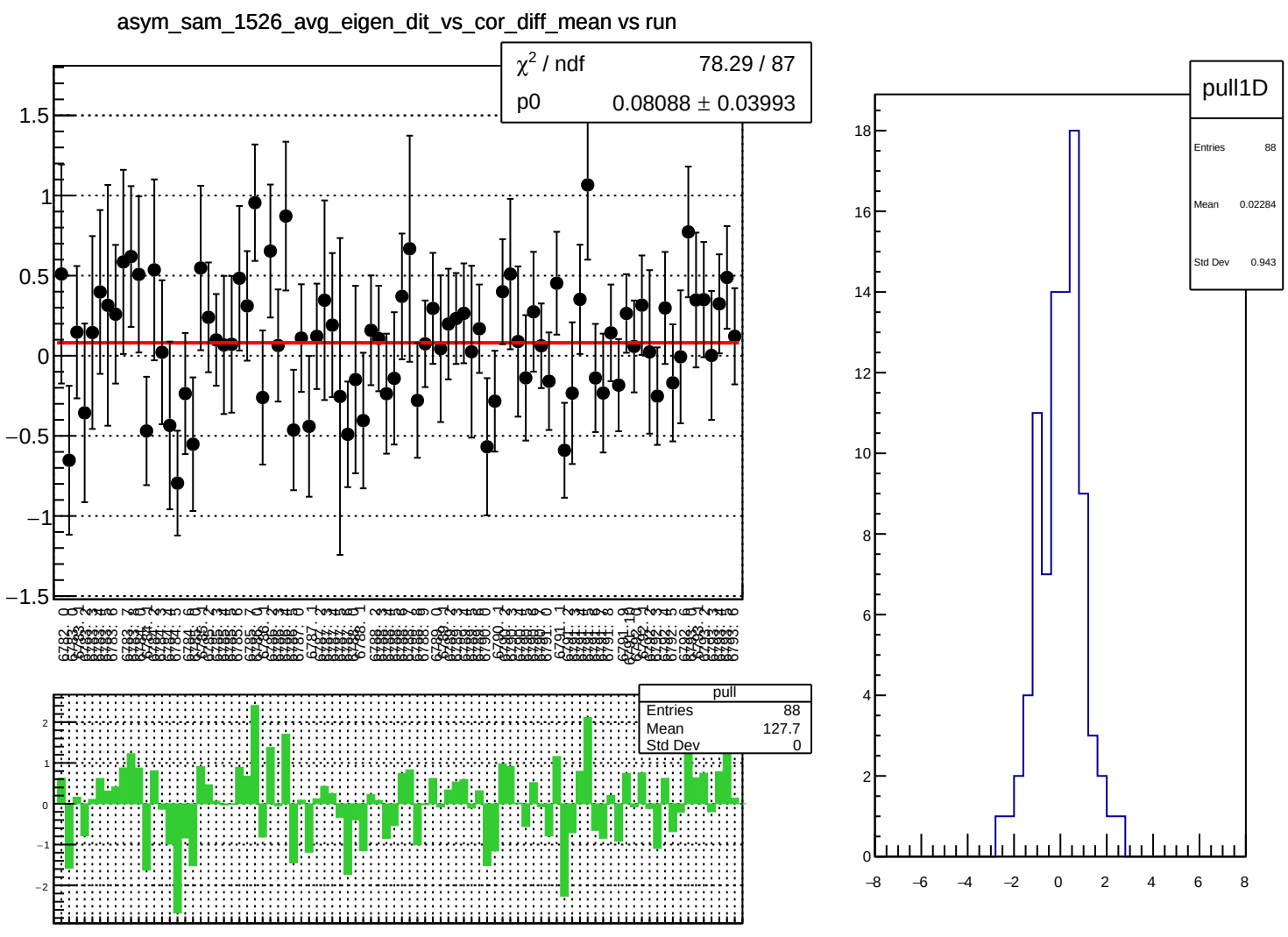

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.324e+04 / 87
p0 35.51 ± 0.02824
100
90
80
70
60
50
40
30
20

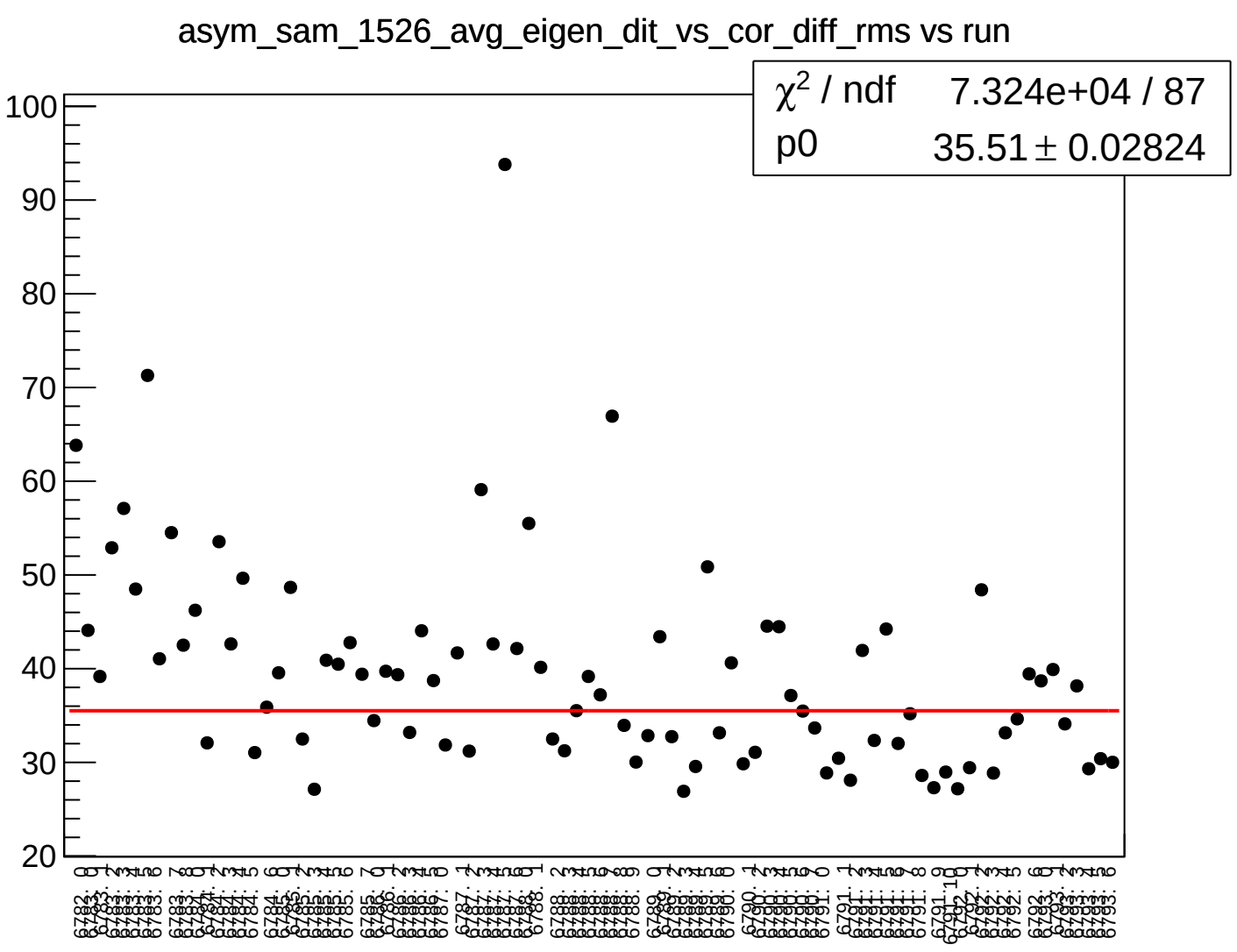

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.29 / 87
p0 0.08088 ± 0.03993
pull
Entries 88
Mean 127.7
Std Dev 0
pull1D
Entries 88
Mean 0.02284
Std Dev 0.943

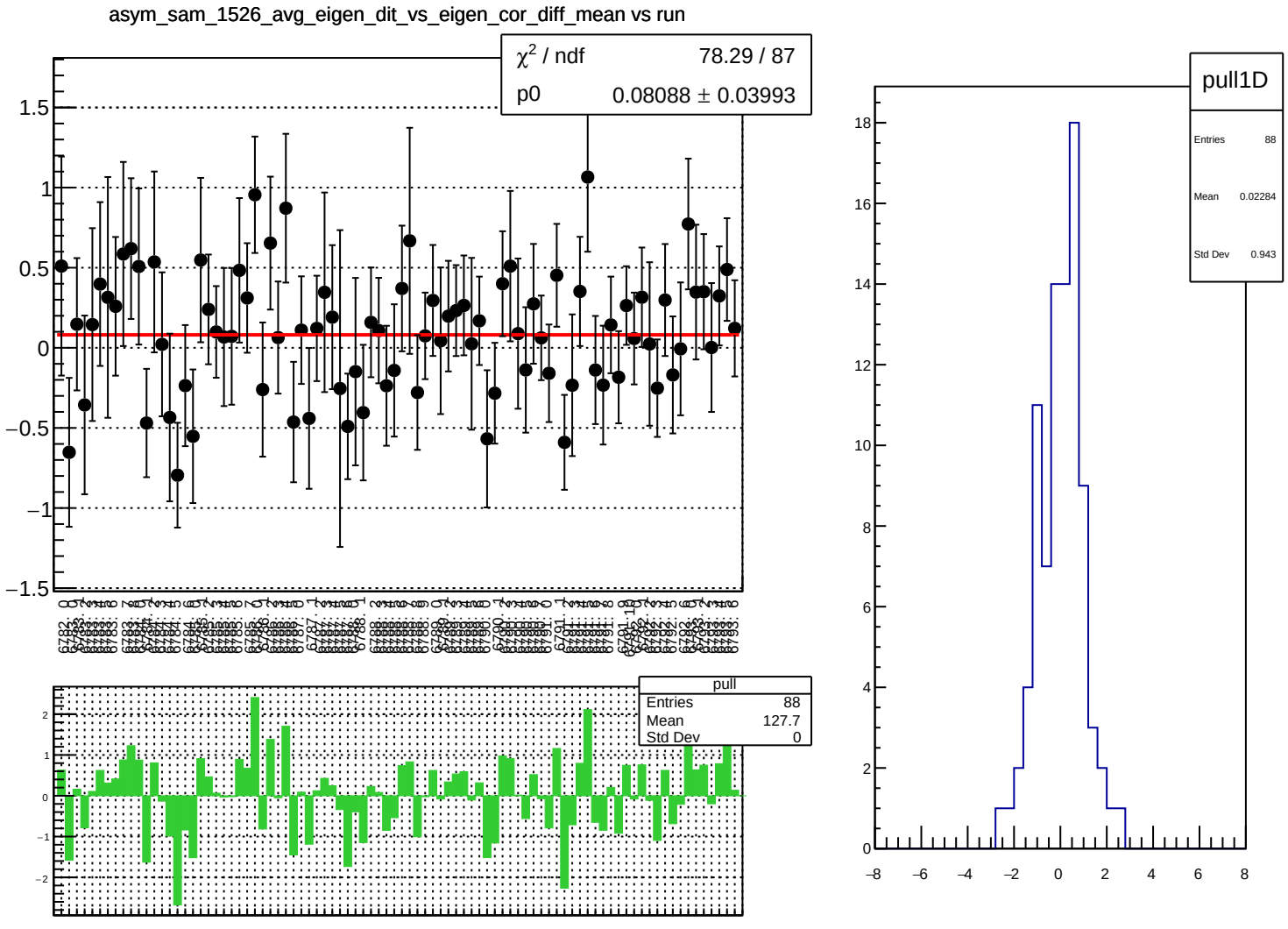

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.324e+04 / 87
p0 35.51 ± 0.02824
100
90
80
70
60
50
40
30
20

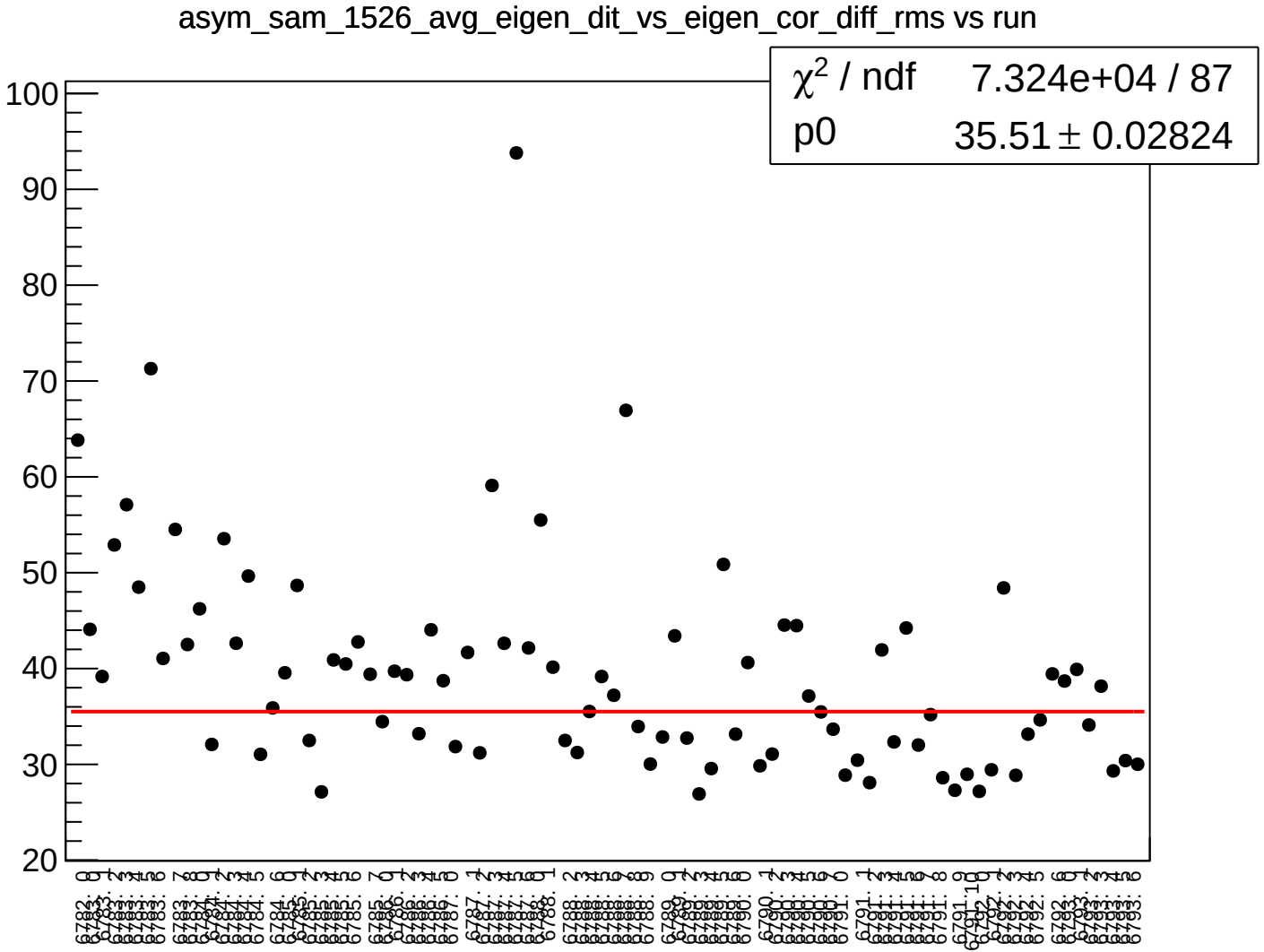

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.8 / 87
p0 3.596e−06 ± 1.57e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −288.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.006648
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

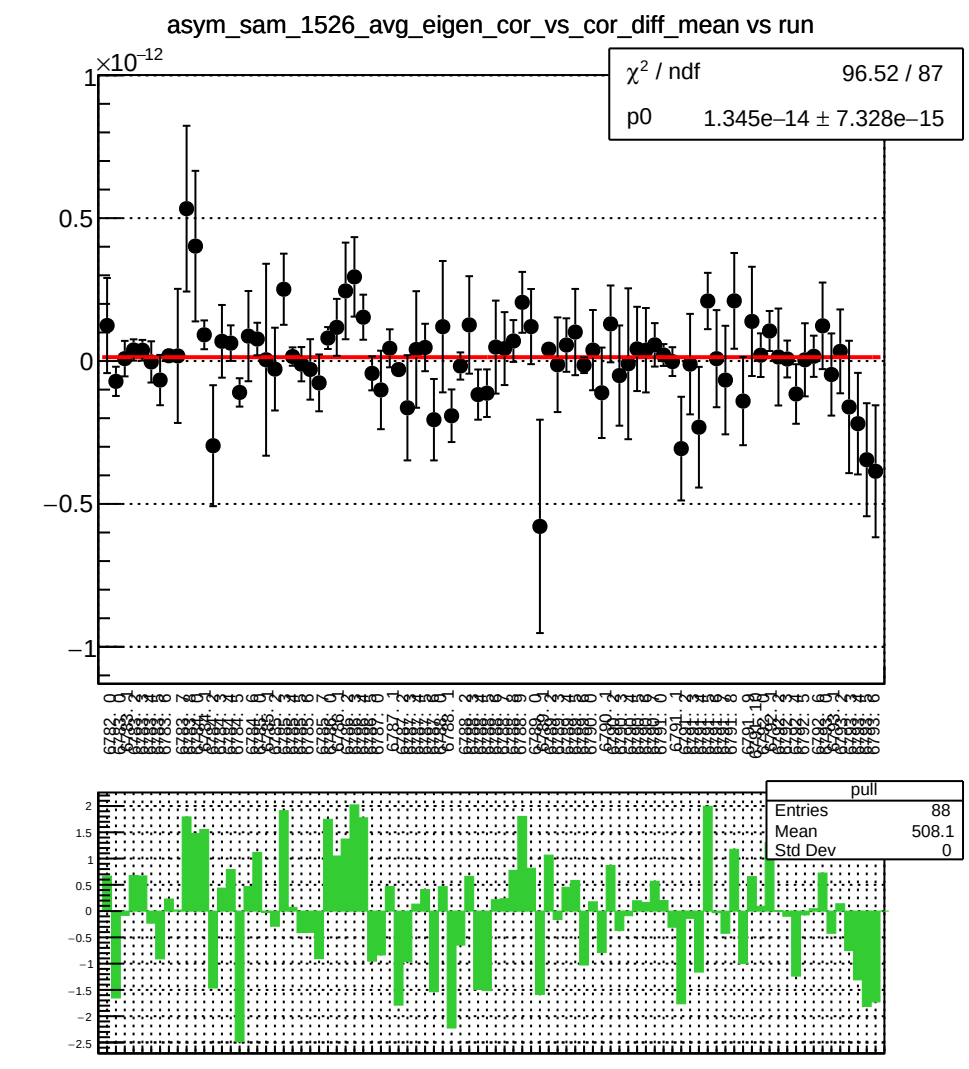

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1250 / 87
p0 0.001428 ± 1.11e–06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013

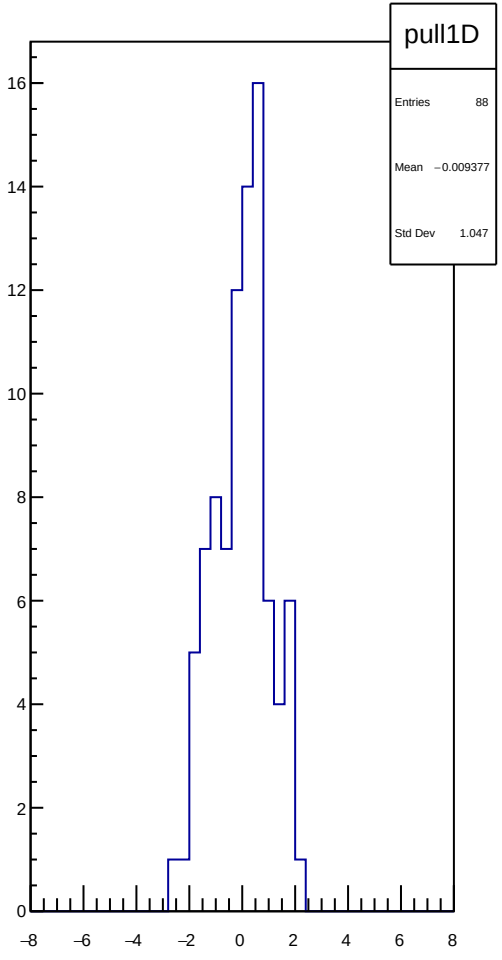

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.29 / 87
p0 0.08088 ± 0.03993
pull
Entries 88
Mean 127.7
Std Dev 0
pull1D
Entries 88
Mean 0.02284
Std Dev 0.943

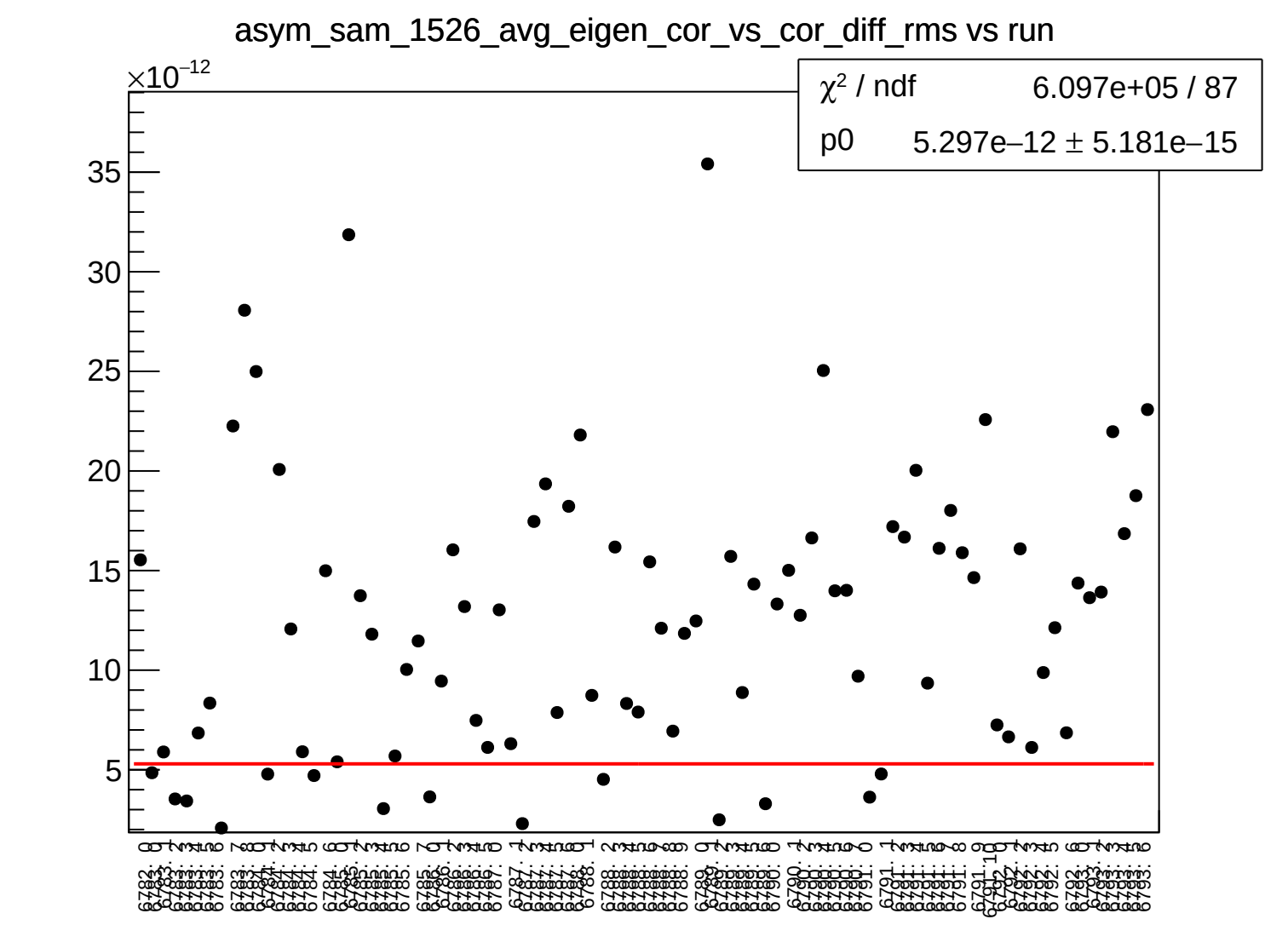

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.324e+04 / 87
p0 35.51 ± 0.02824
100
90
80
70
60
50
40
30
20

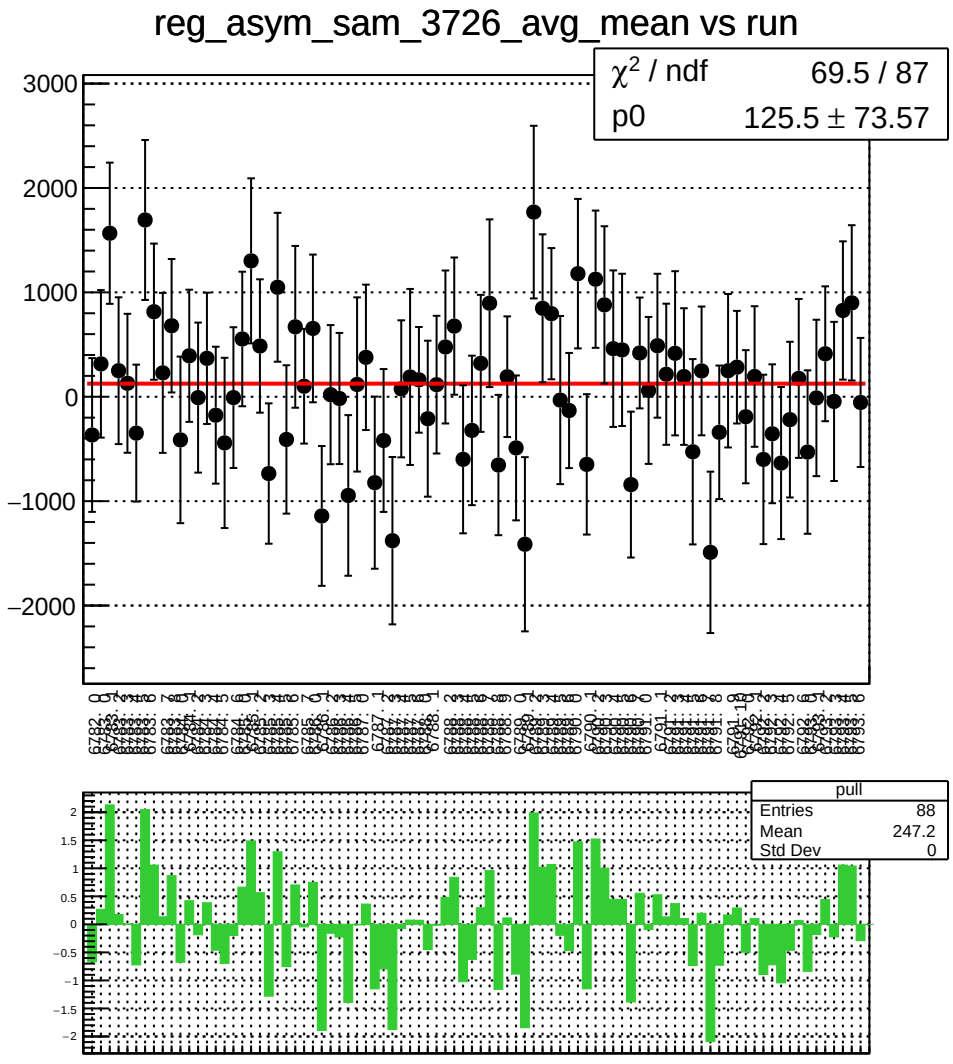

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.29 / 87
p0 0.08088 ± 0.03993
pull
Entries 88
Mean 127.7
Std Dev 0
pull1D
Entries 88
Mean 0.02284
Std Dev 0.943

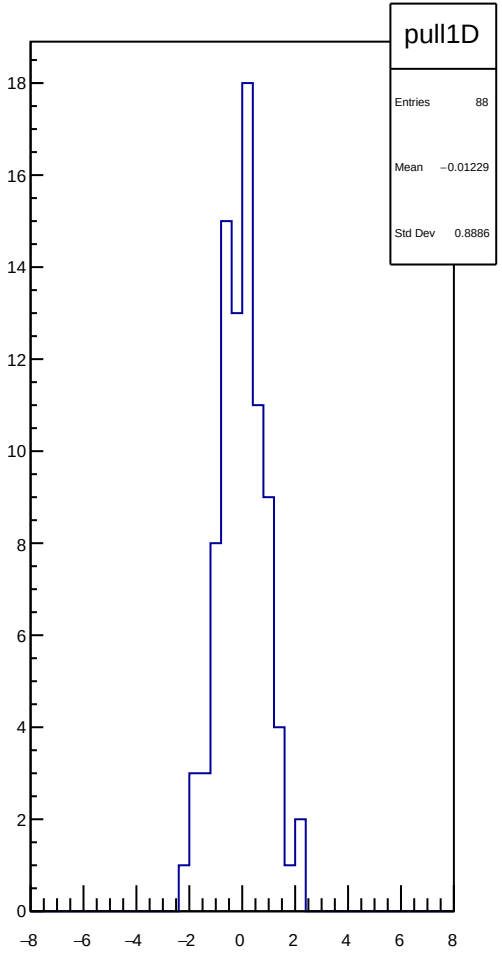

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.324e+04 / 87
p0 35.51 ± 0.02824
100
90
80
70
60
50
40
30
20

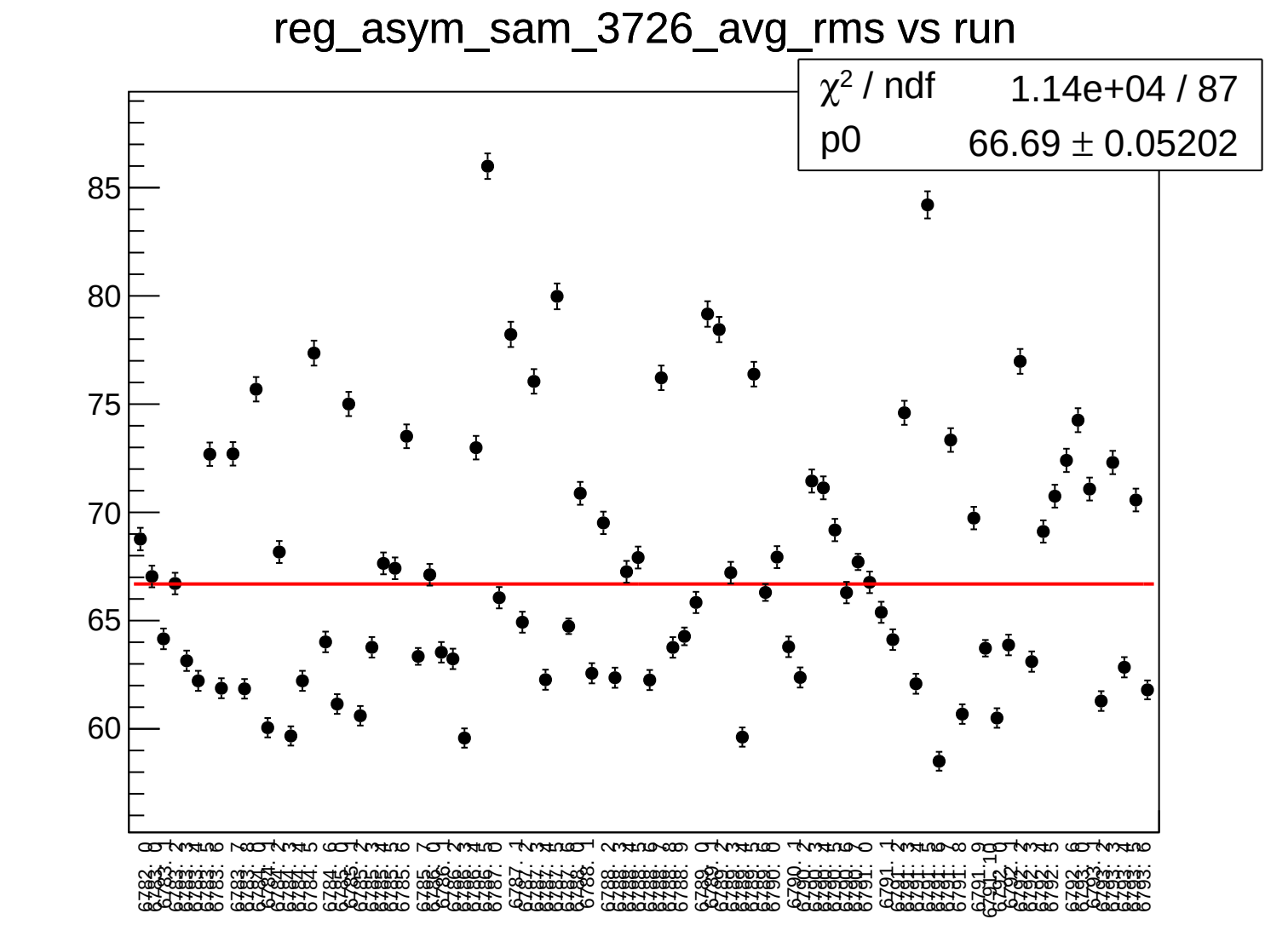

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.52 / 87
p0 1.345e−14 ± 7.328e−15
pull
Entries 88
Mean 508.1
Std Dev 0

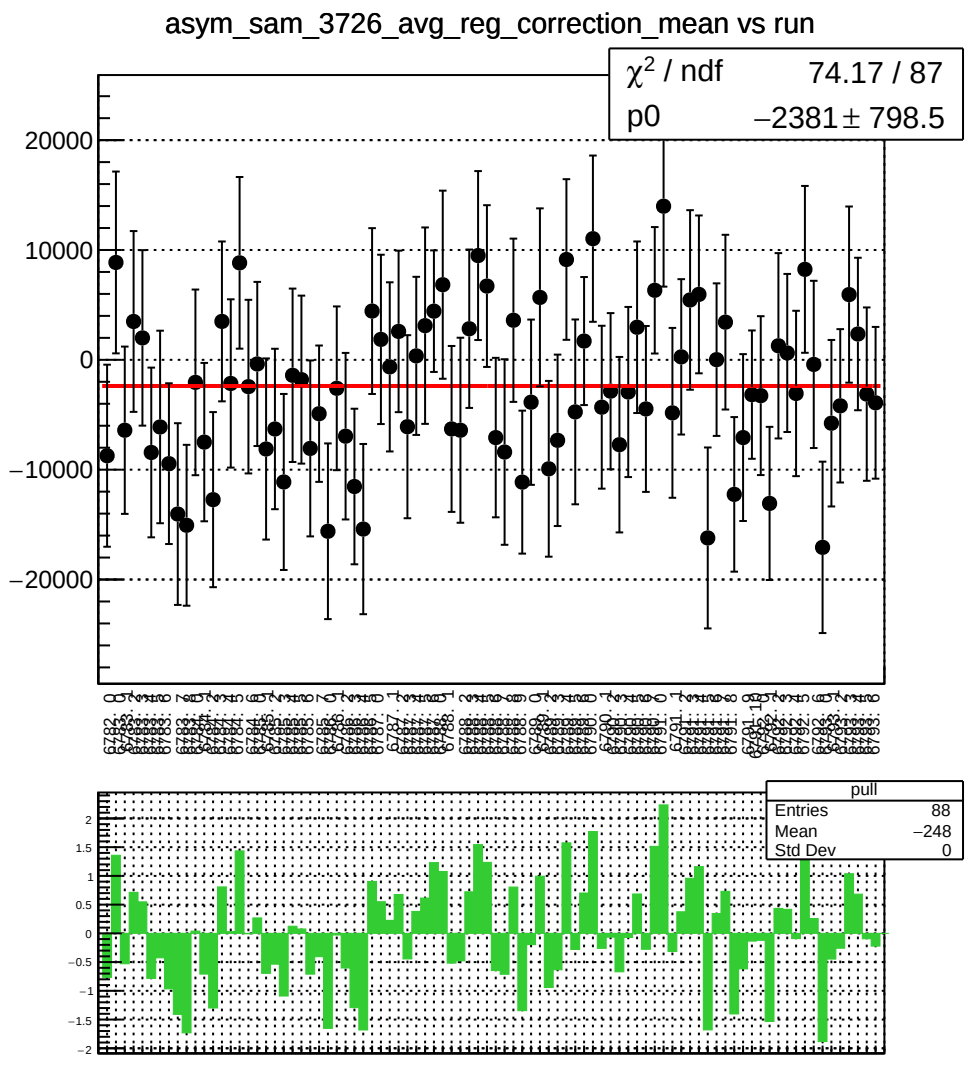

pull1D
Entries 88
Mean −0.009377
Std Dev 1.047

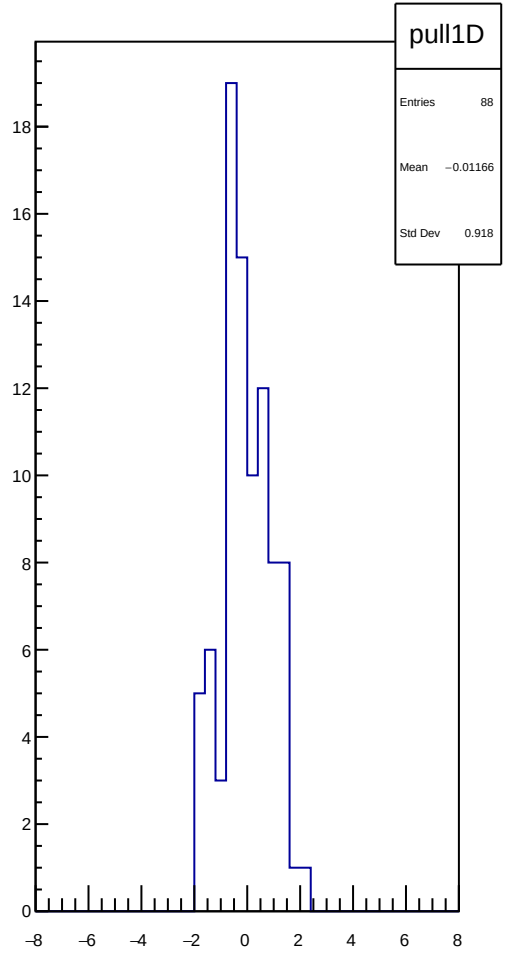

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.097e+05 / 87
p0 5.297e−12 ± 5.181e−15
35
30
25
20
15
10
5

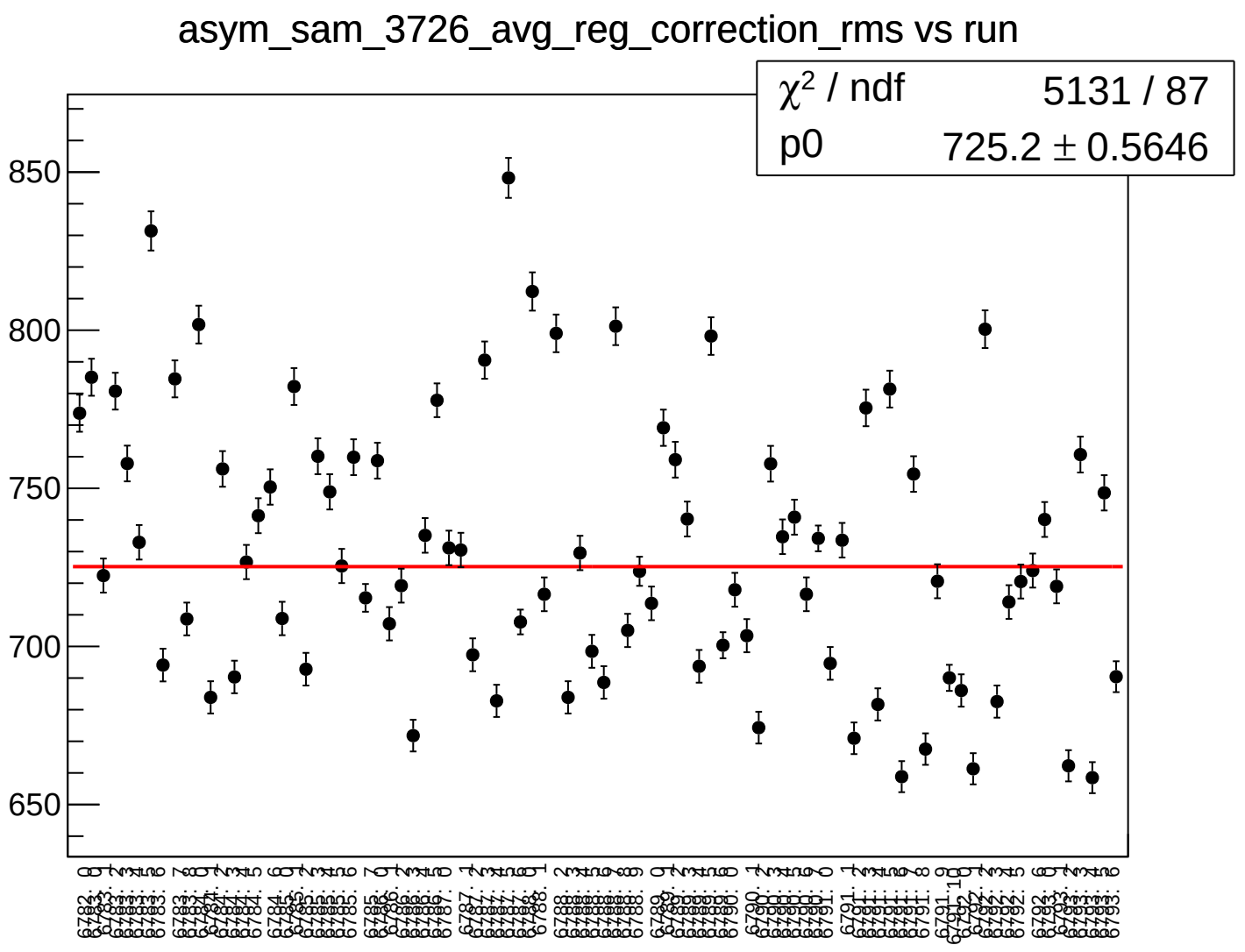

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 69.5 / 87
p0 125.5 ± 73.57
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 247.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

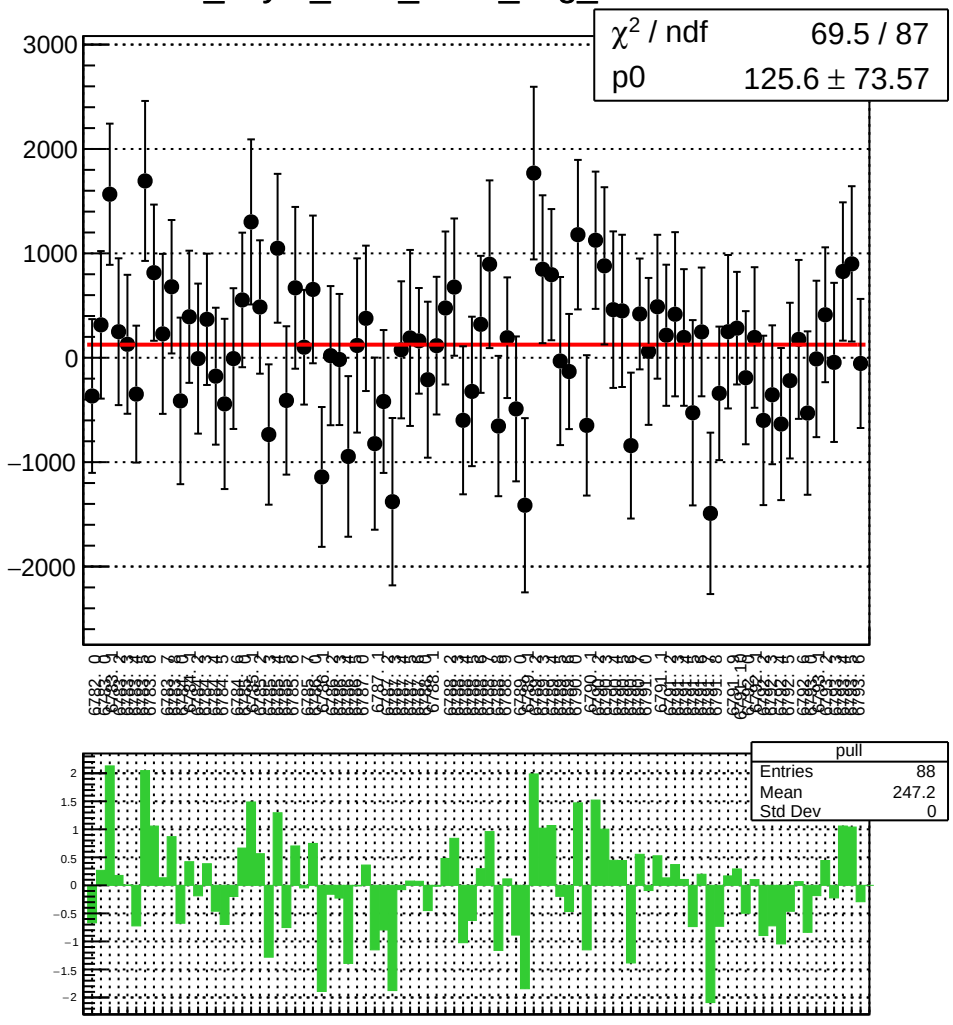

pull1D
Entries 88
Mean −0.01229
Std Dev 0.8886
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

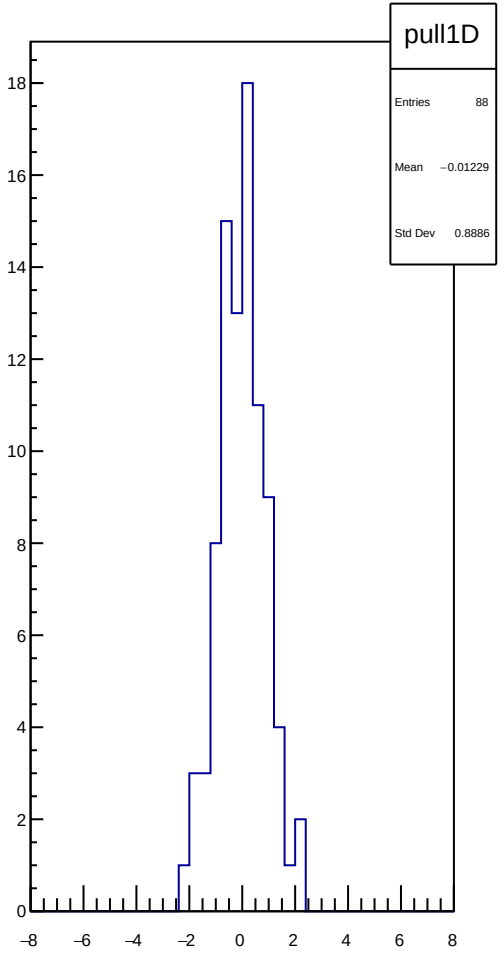

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.14e+04 / 87
p0 66.69 ± 0.05202
85
80
75
70
65
60

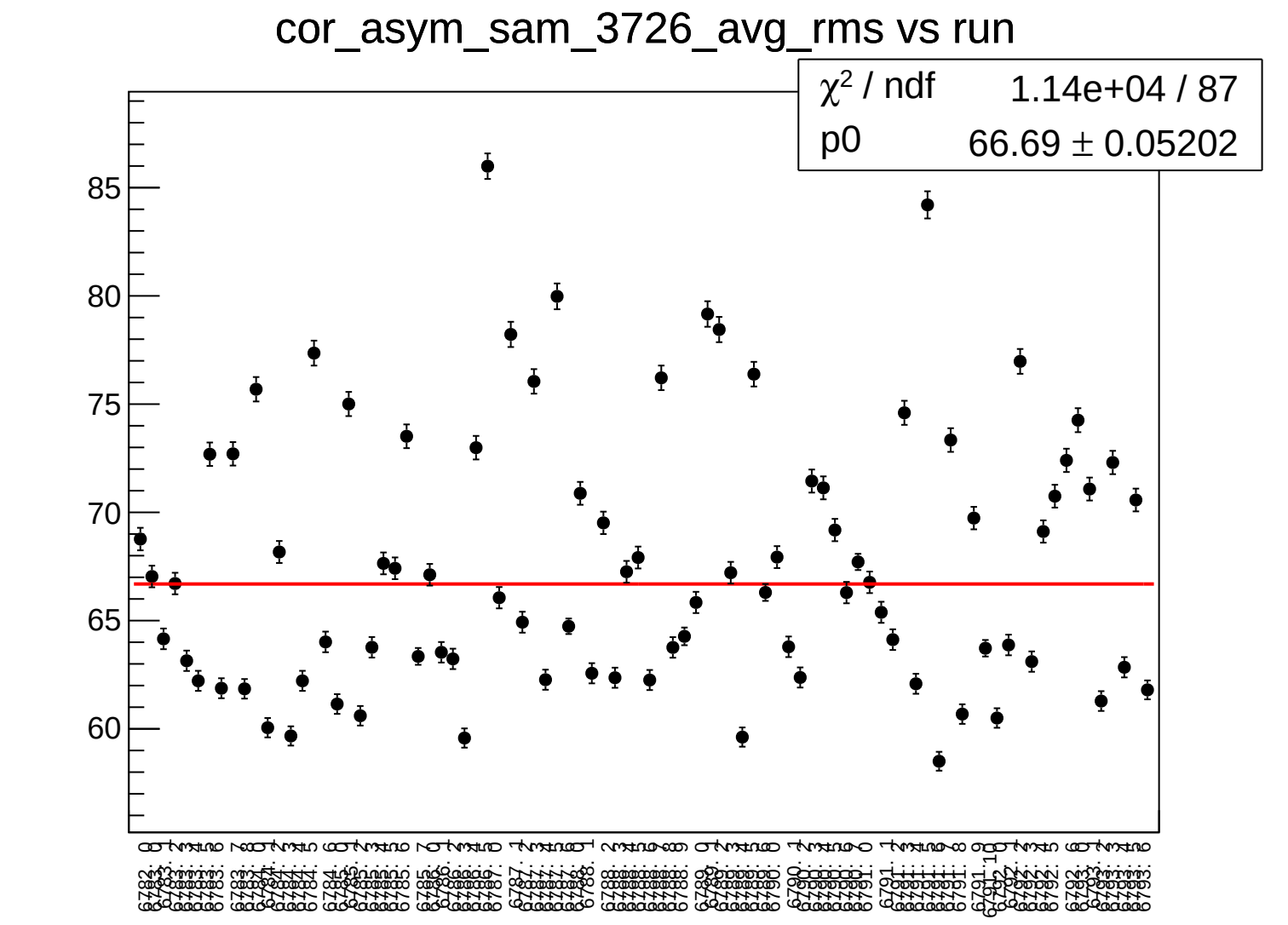

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 74.17 / 87
p0 −2381 ± 798.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −248
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

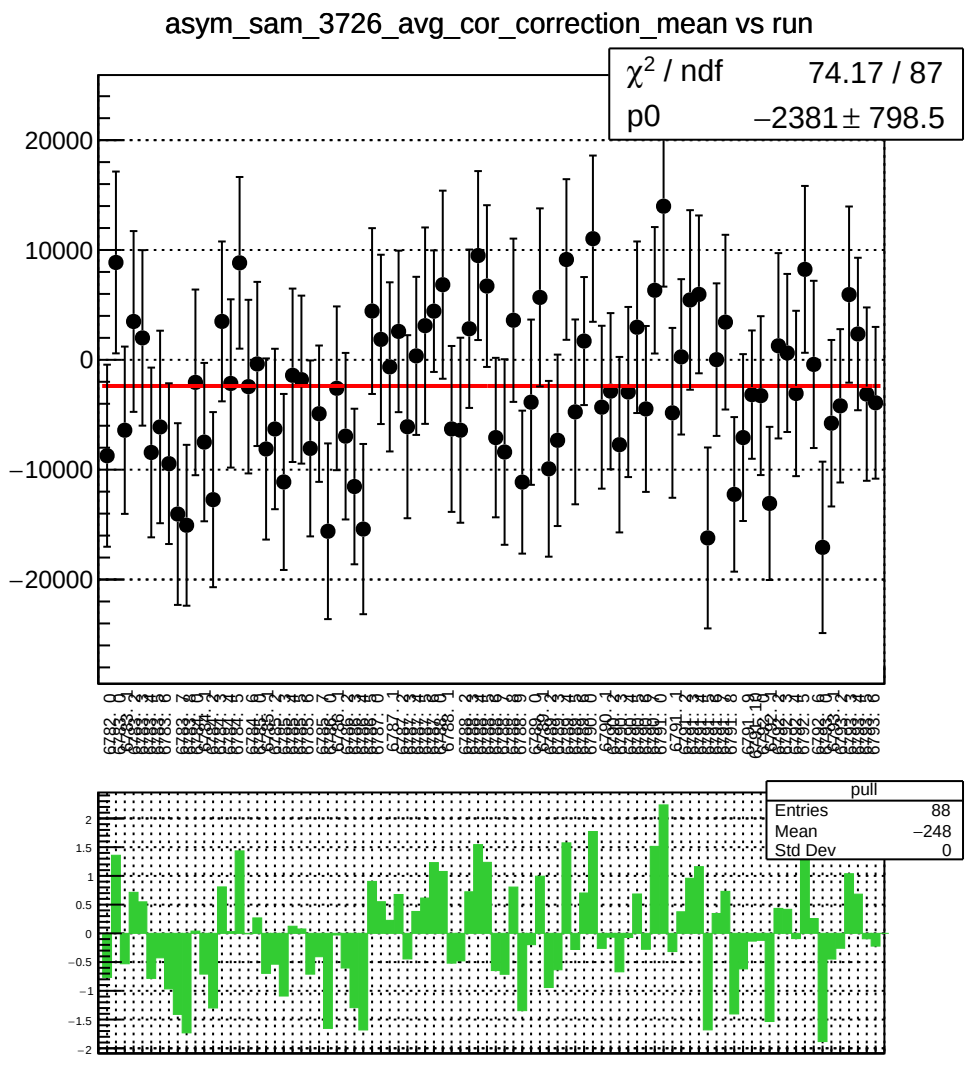

pull1D
Entries 88
Mean −0.01166
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

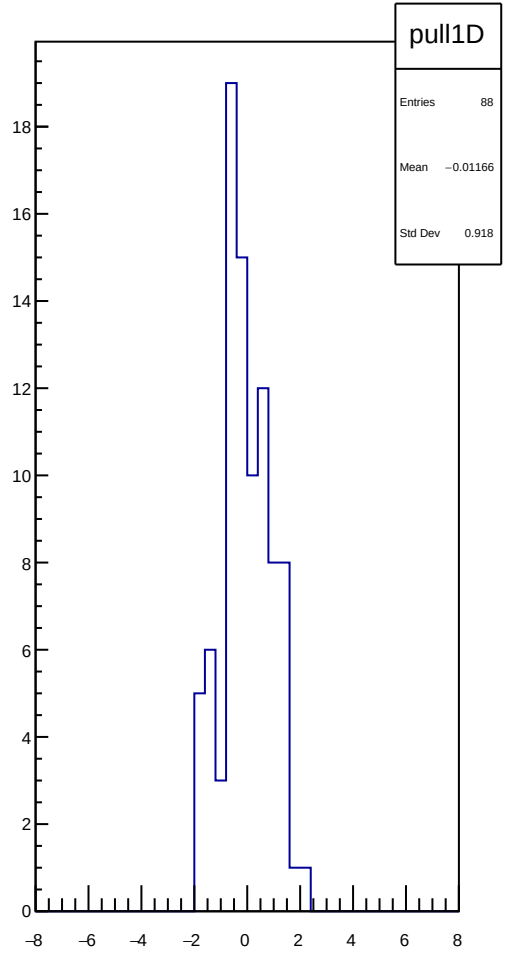

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 5131 / 87
p0 725.2 ± 0.5646
850
800
750
700
650

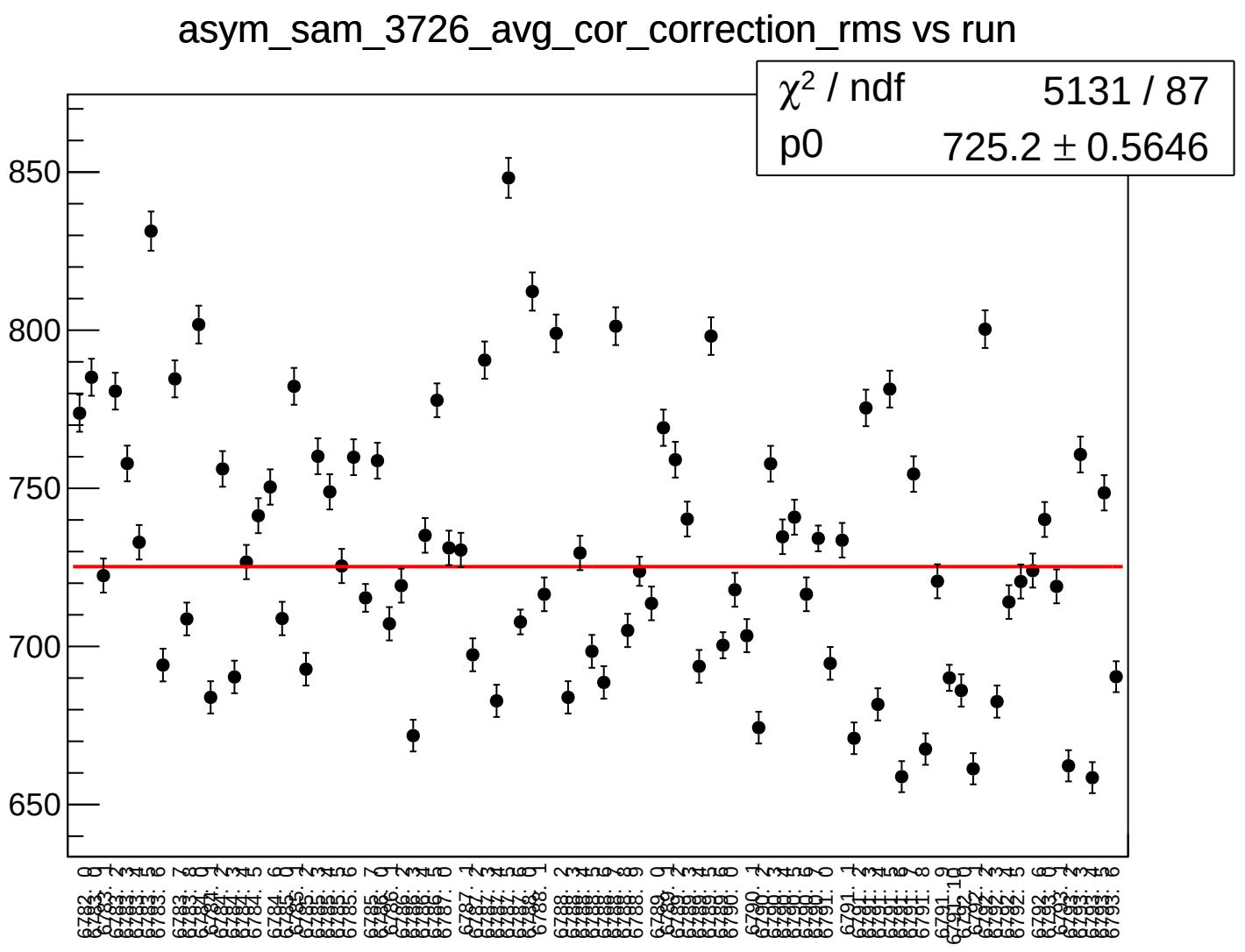

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 69.5 / 87
p0 125.6 ± 73.57
pull
Entries 88
Mean 247.2
Std Dev 0

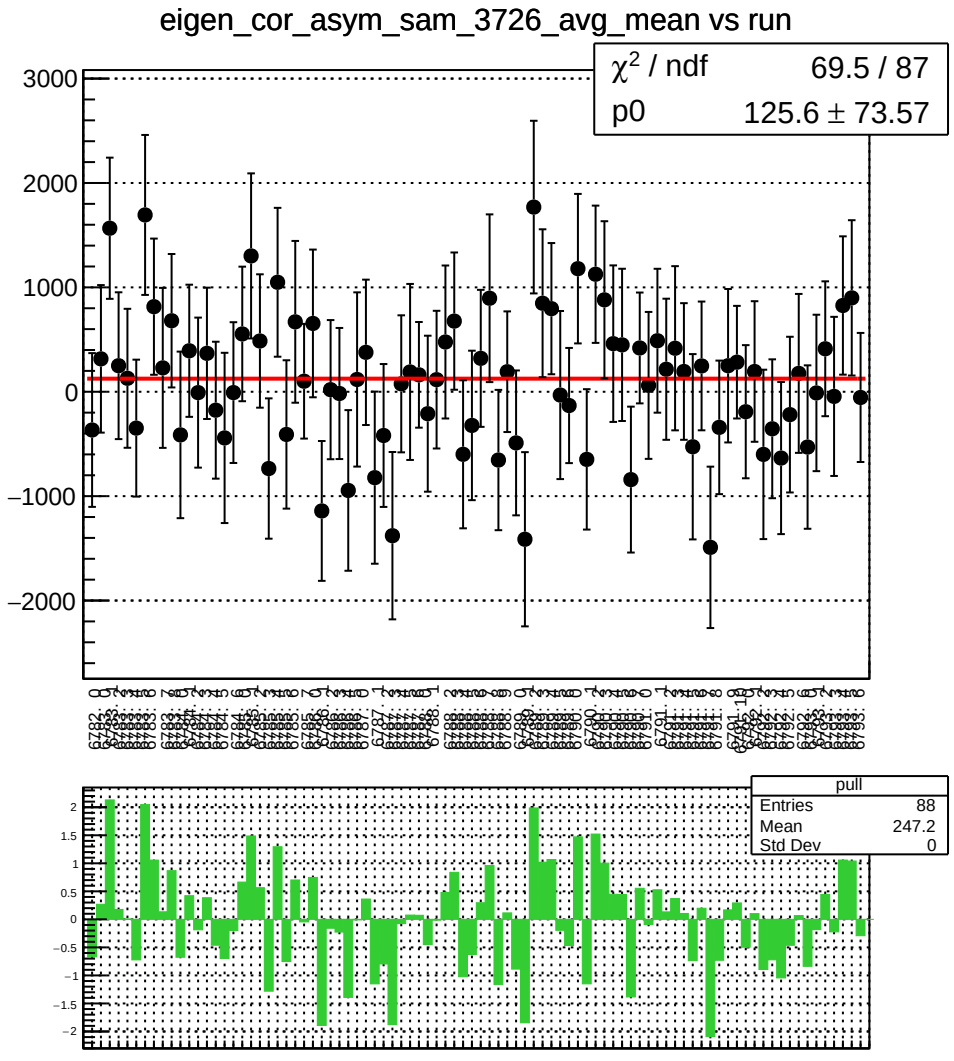

pull1D
Entries 88
Mean −0.01229
Std Dev 0.8886

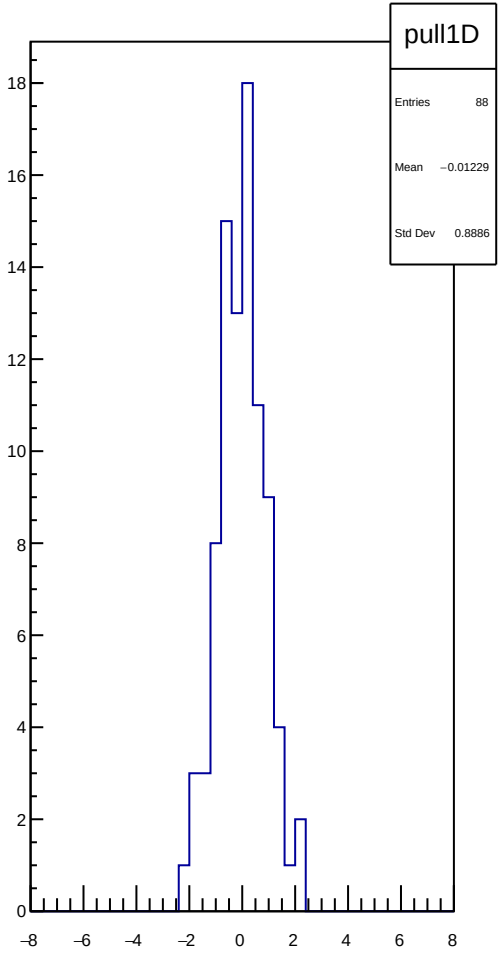

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.14e+04 / 87
p0 66.69 ± 0.05202
85
80
75
70
65
60

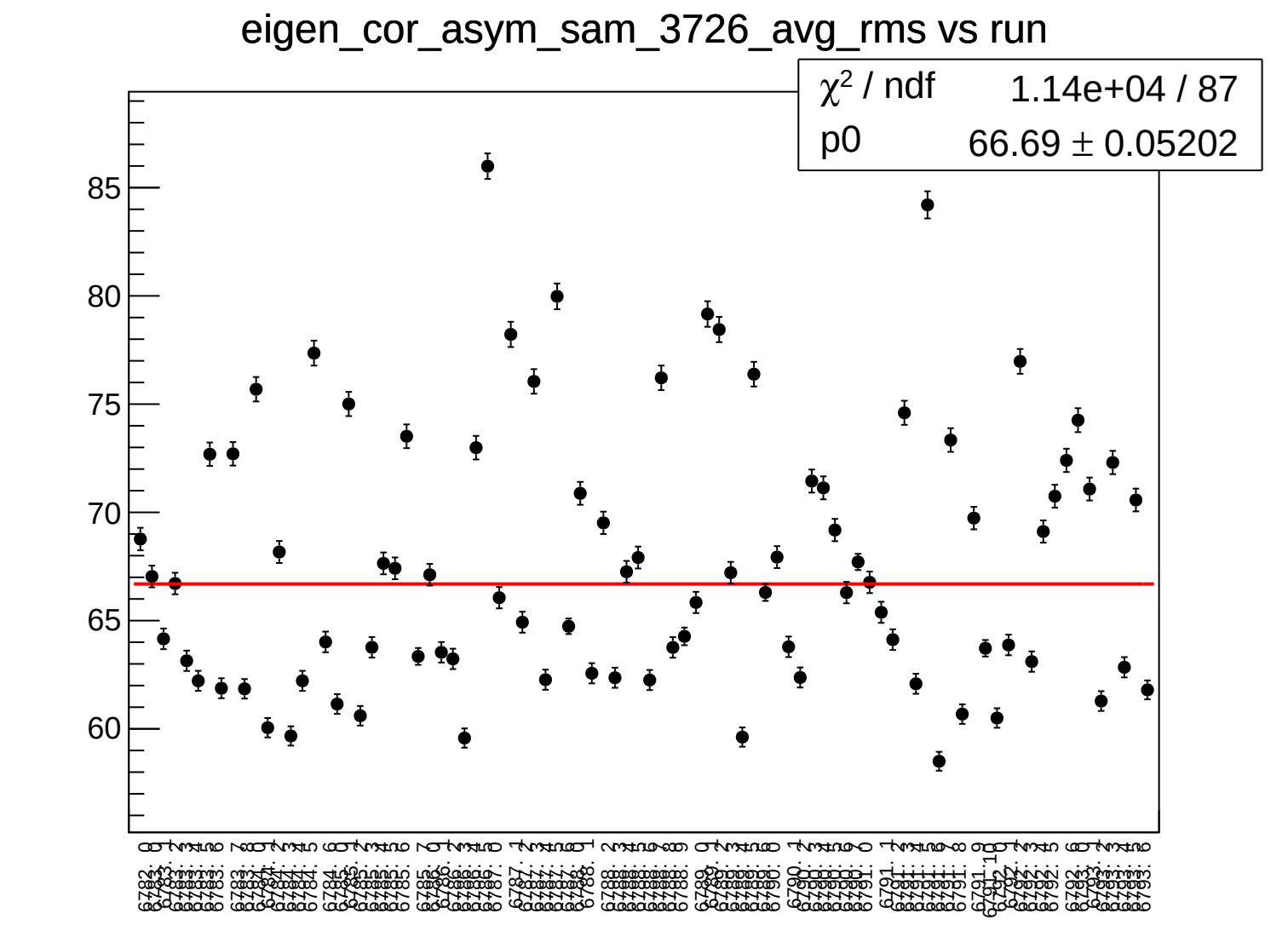

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 74.17 / 87
p0 −2381 ± 798.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −248
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

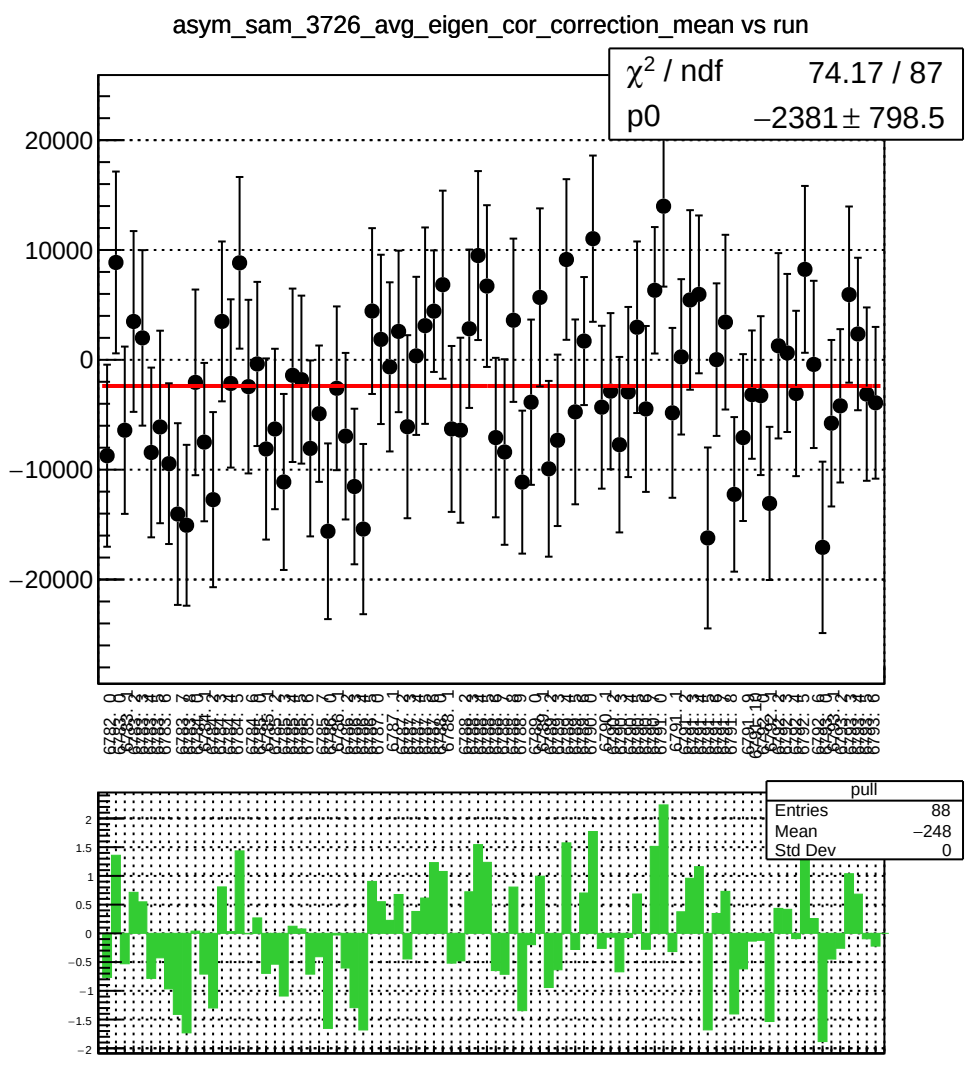

pull1D
Entries 88
Mean −0.01166
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

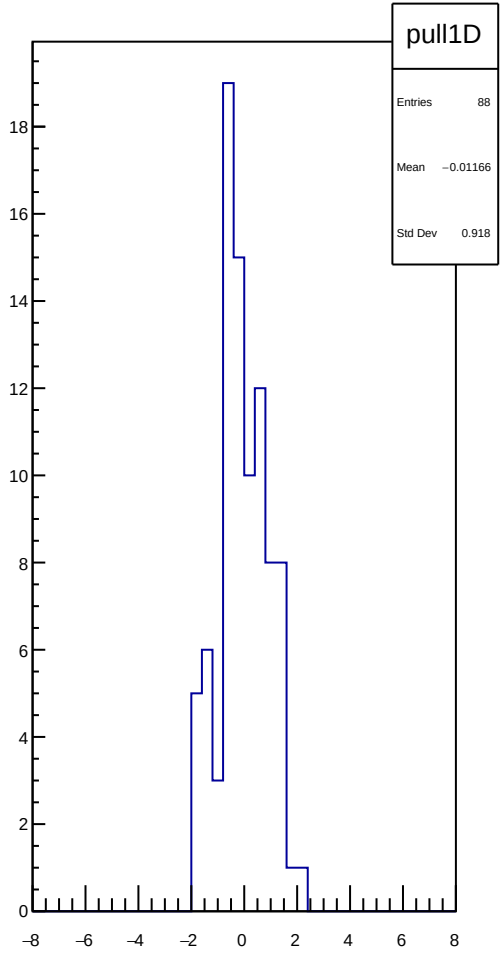

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 5131 / 87
p0 725.2 ± 0.5646
850
800
750
700
650

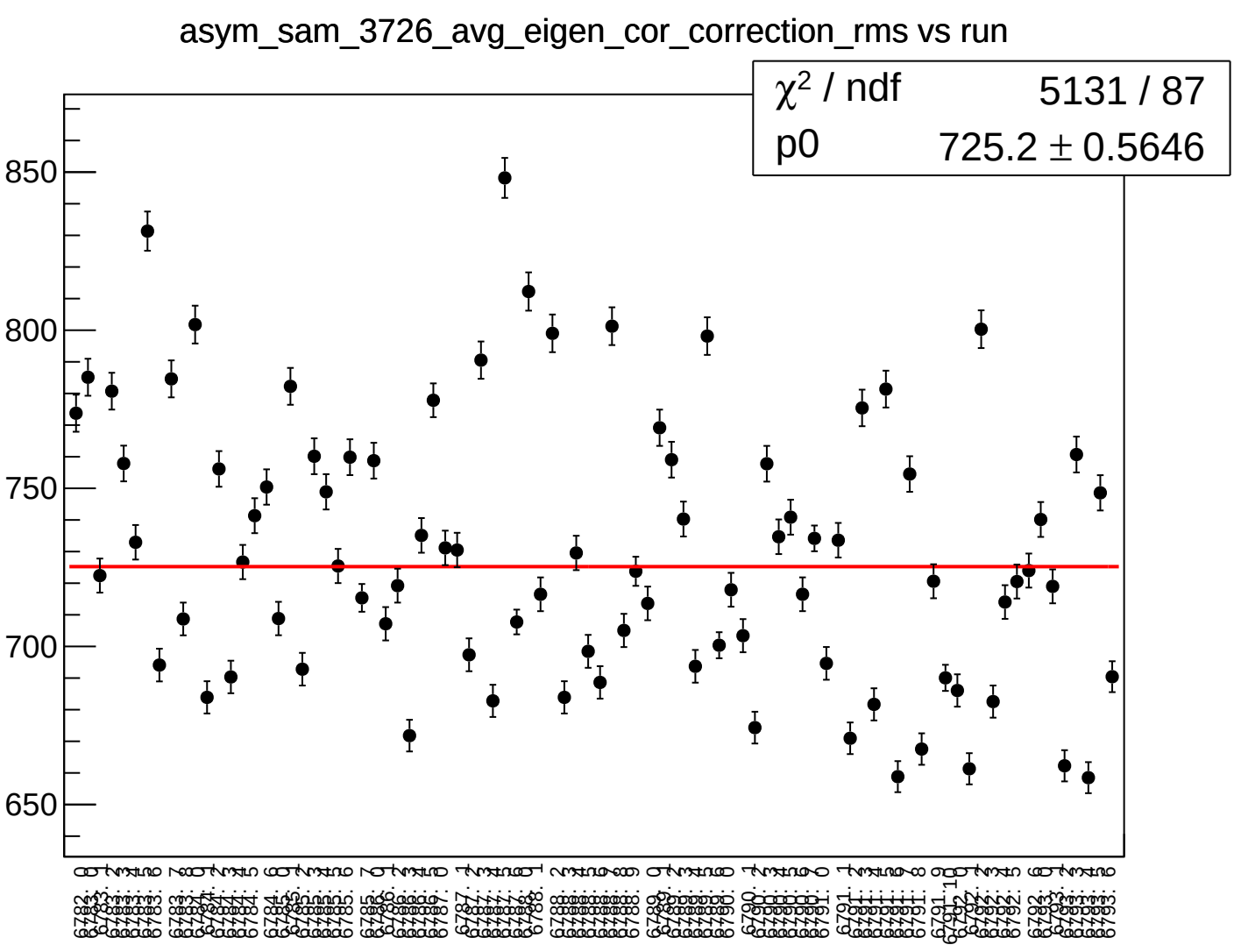

eigen_cor_asym_sam_3726_avg_mean vs run
χ^2 / ndf 69.5 / 87
p0 125.6 ± 73.57
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 247.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

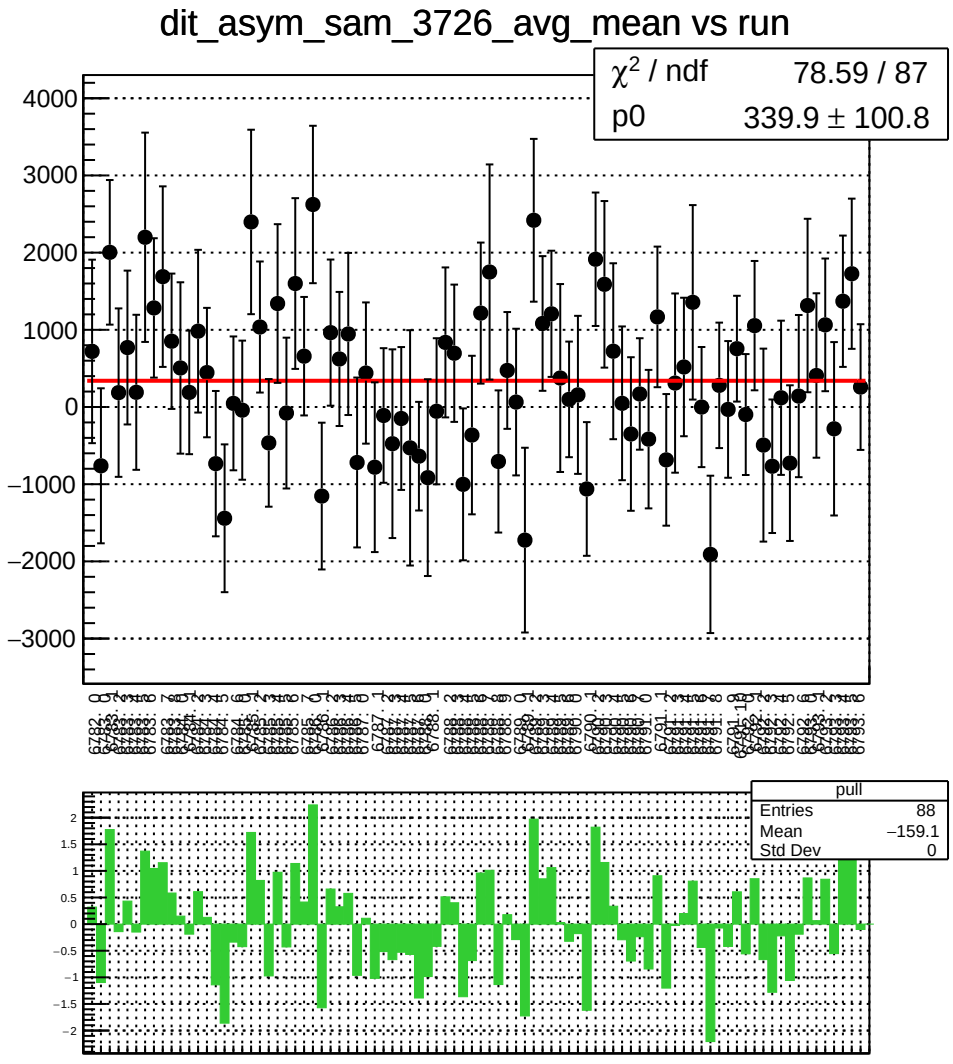

pull1D
Entries 88
Mean −0.01229
Std Dev 0.8886
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

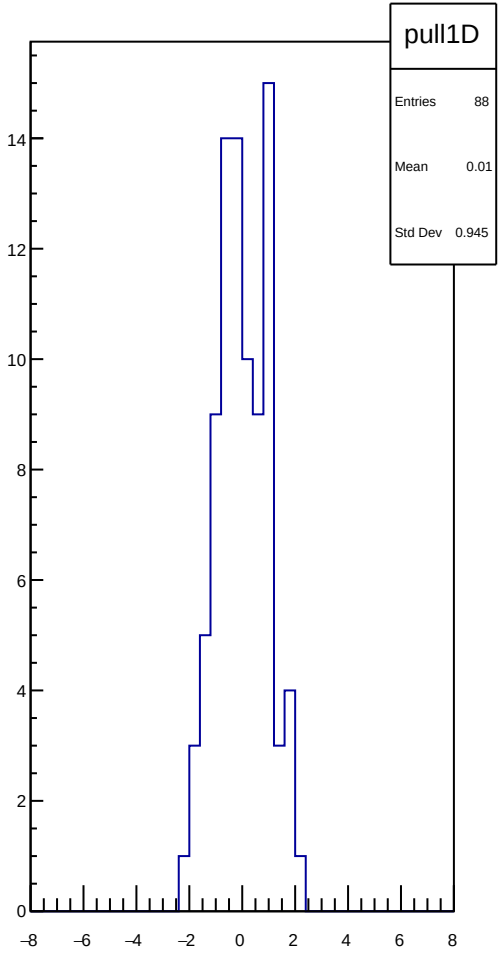

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.14e+04 / 87
p0 66.69 ± 0.05202
85
80
75
70
65
60

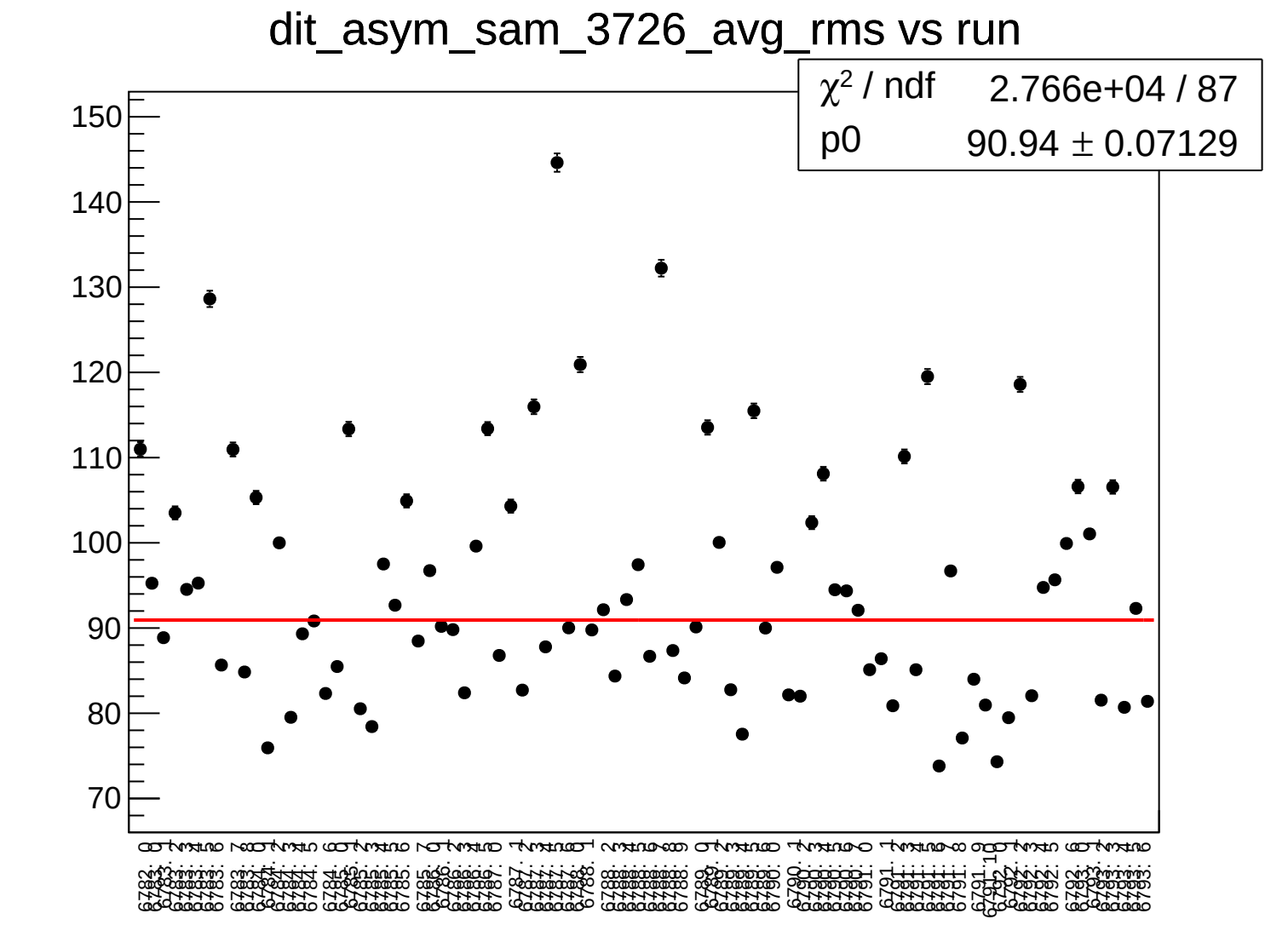

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.17 / 87
p0 −2381 ± 798.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −248
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

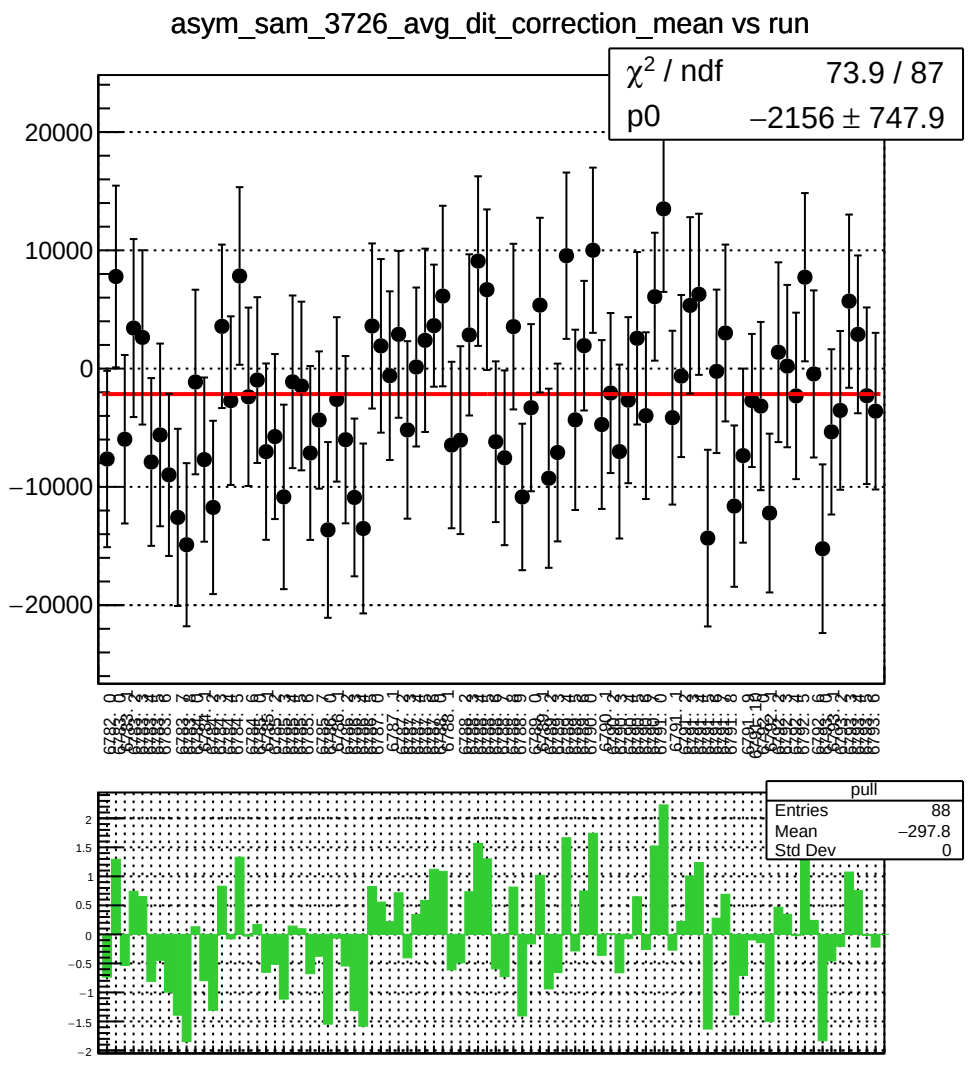

pull1D
Entries 88
Mean −0.01166
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

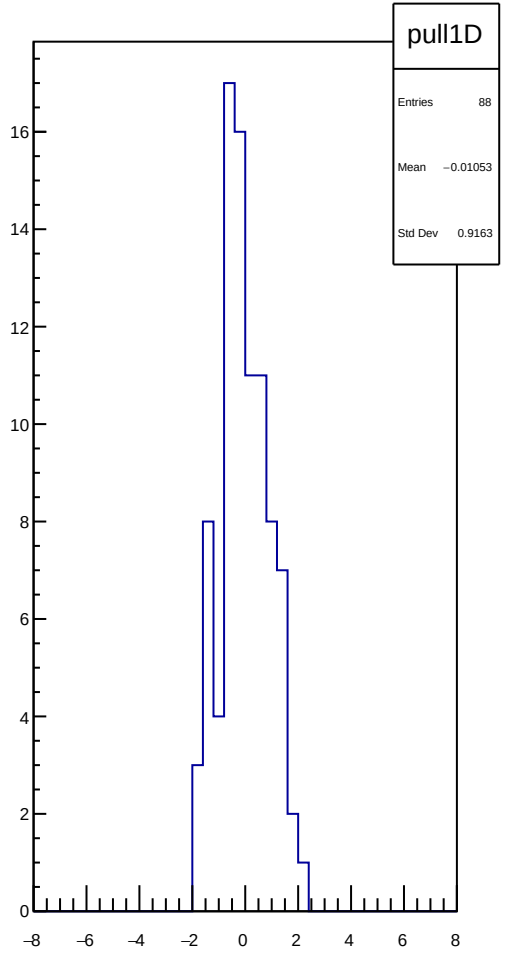

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 5131 / 87
p0 725.2 ± 0.5646
850
800
750
700
650

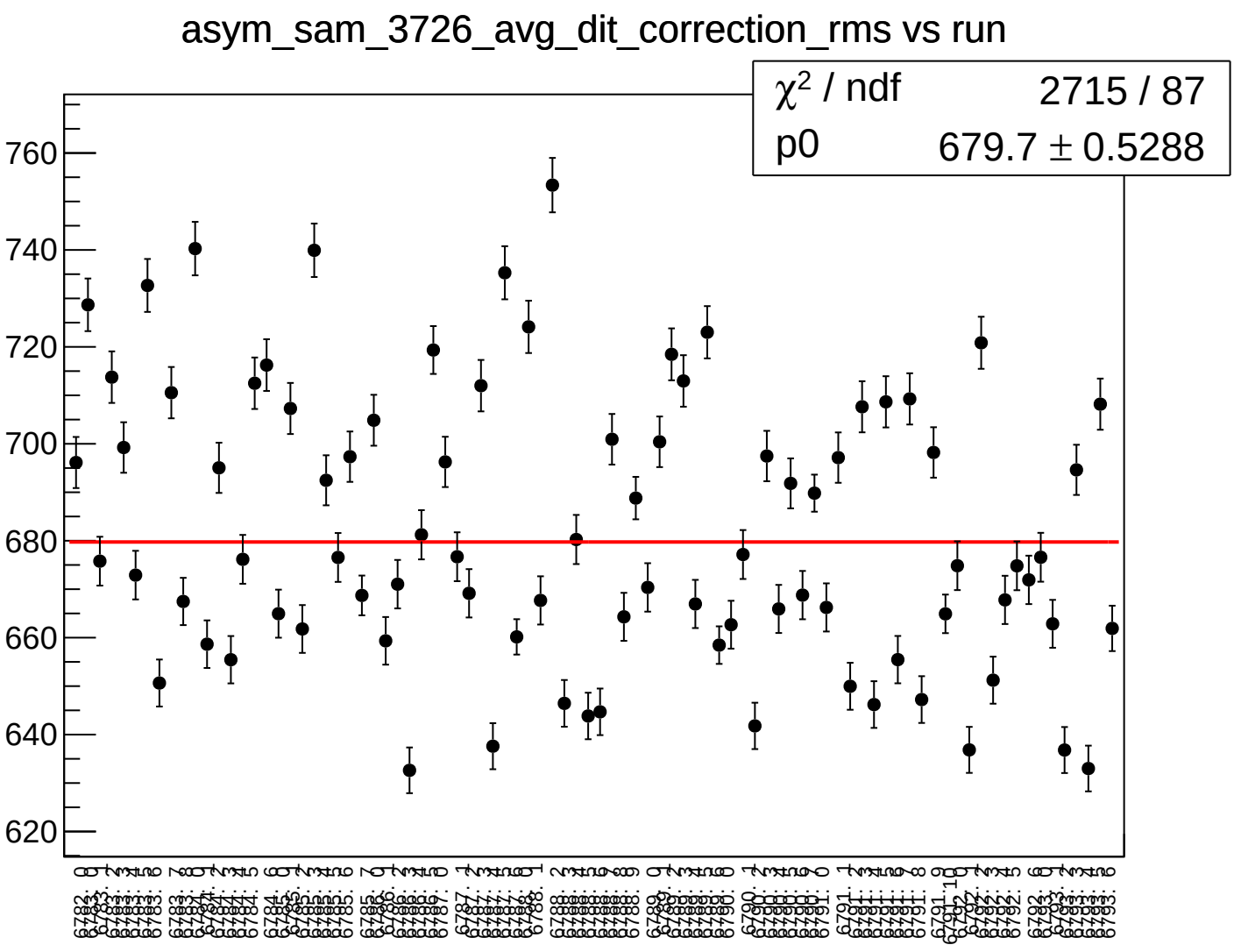

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 78.59 / 87
p0 339.9 ± 100.8
pull
Entries 88
Mean −159.1
Std Dev 0

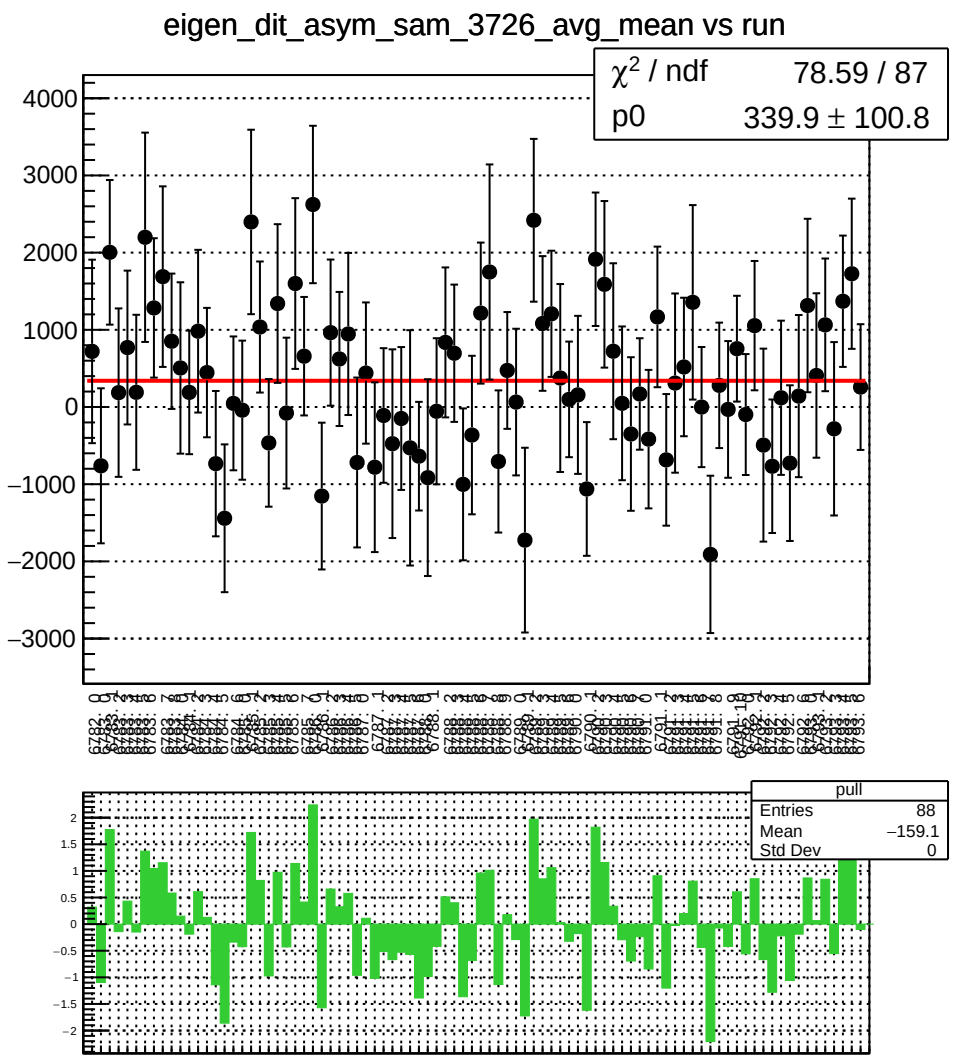

pull1D
Entries 88
Mean 0.01
Std Dev 0.945

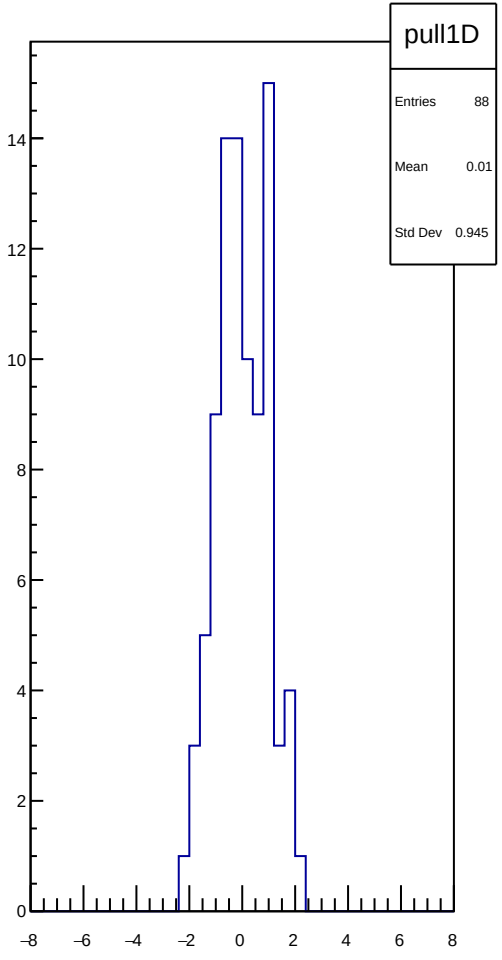

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.766e+04 / 87
p0 90.94 ± 0.07129
150
140
130
120
110
100
90
80
70

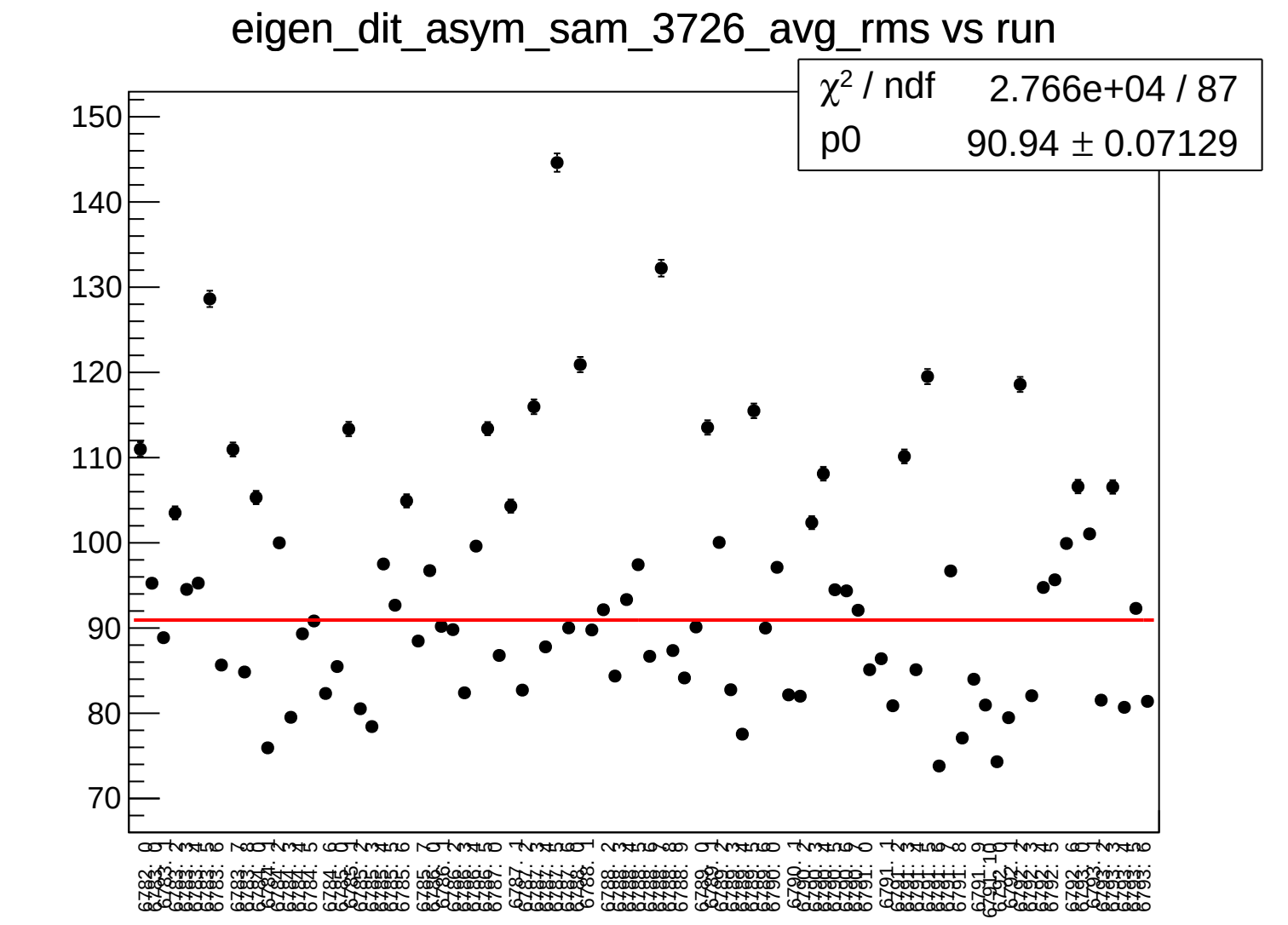

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 73.9 / 87
p0 −2156 ± 747.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −297.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

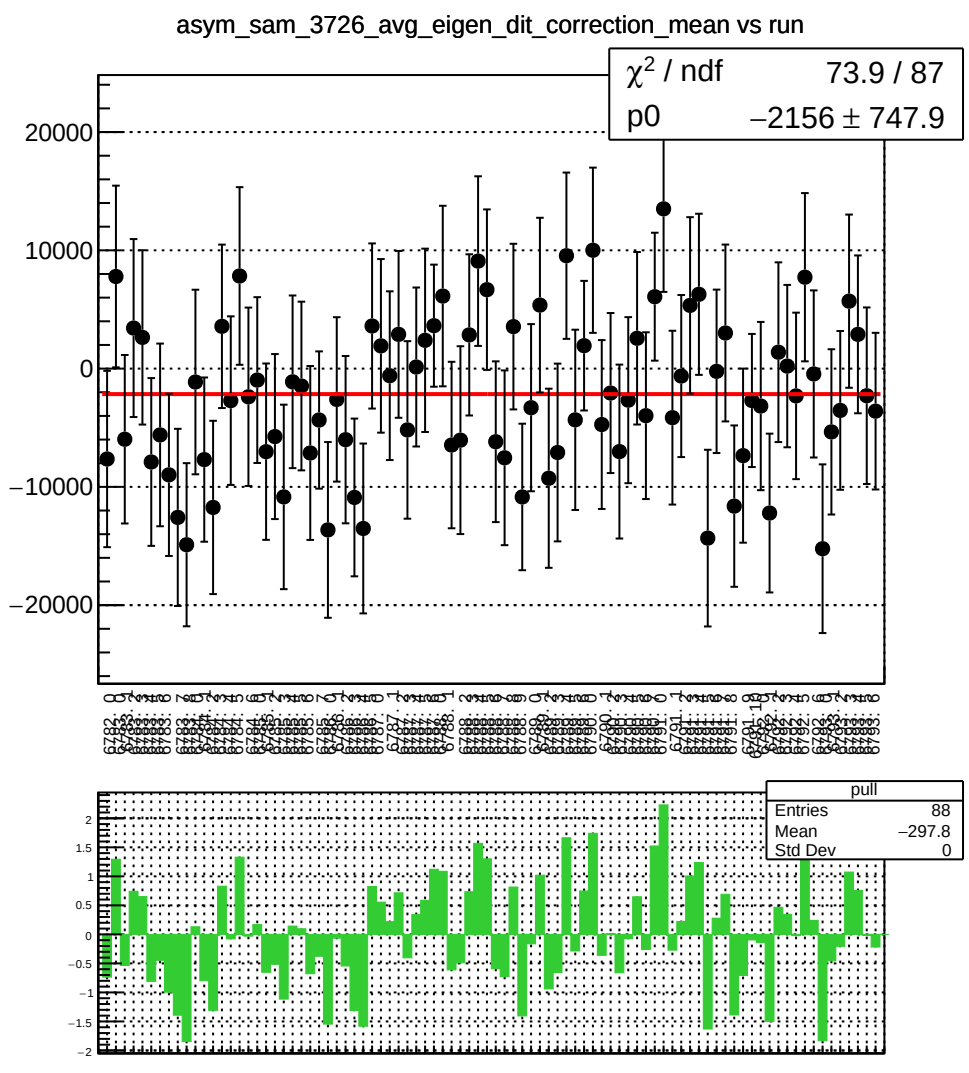

pull1D
Entries 88
Mean −0.01053
Std Dev 0.9163
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

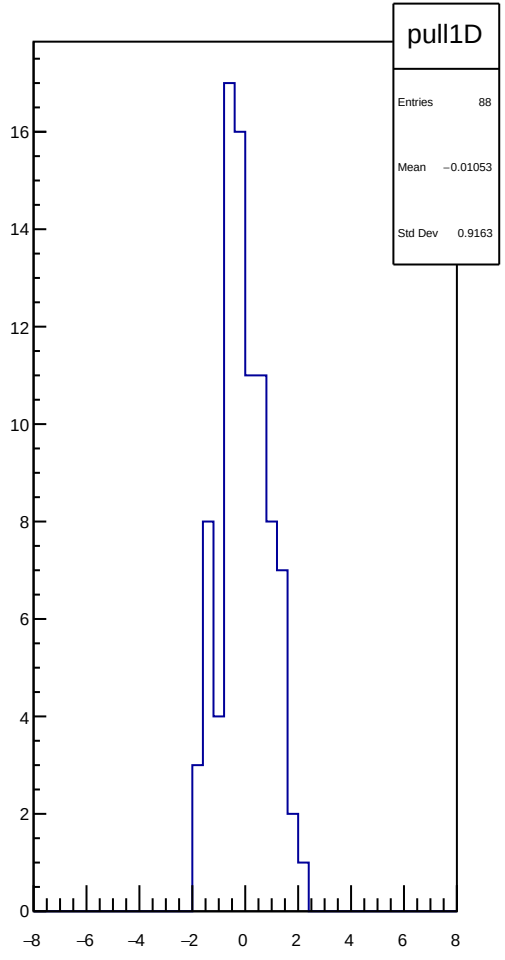

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2715 / 87
p0 679.7 ± 0.5288
760
740
720
700
680
660
640
620

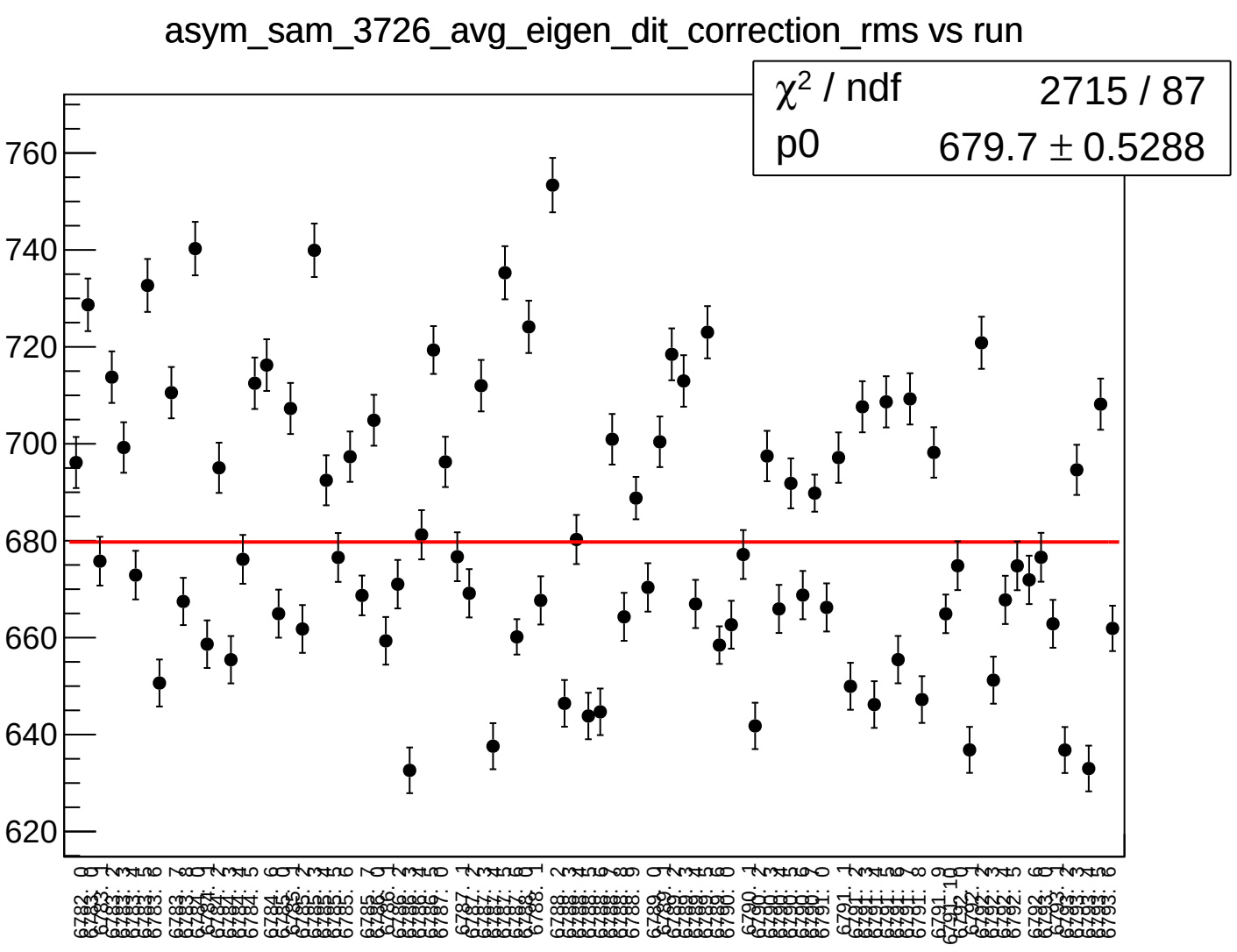

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 78.59 / 87
p0 339.9 ± 100.8
pull
Entries 88
Mean −159.1
Std Dev 0

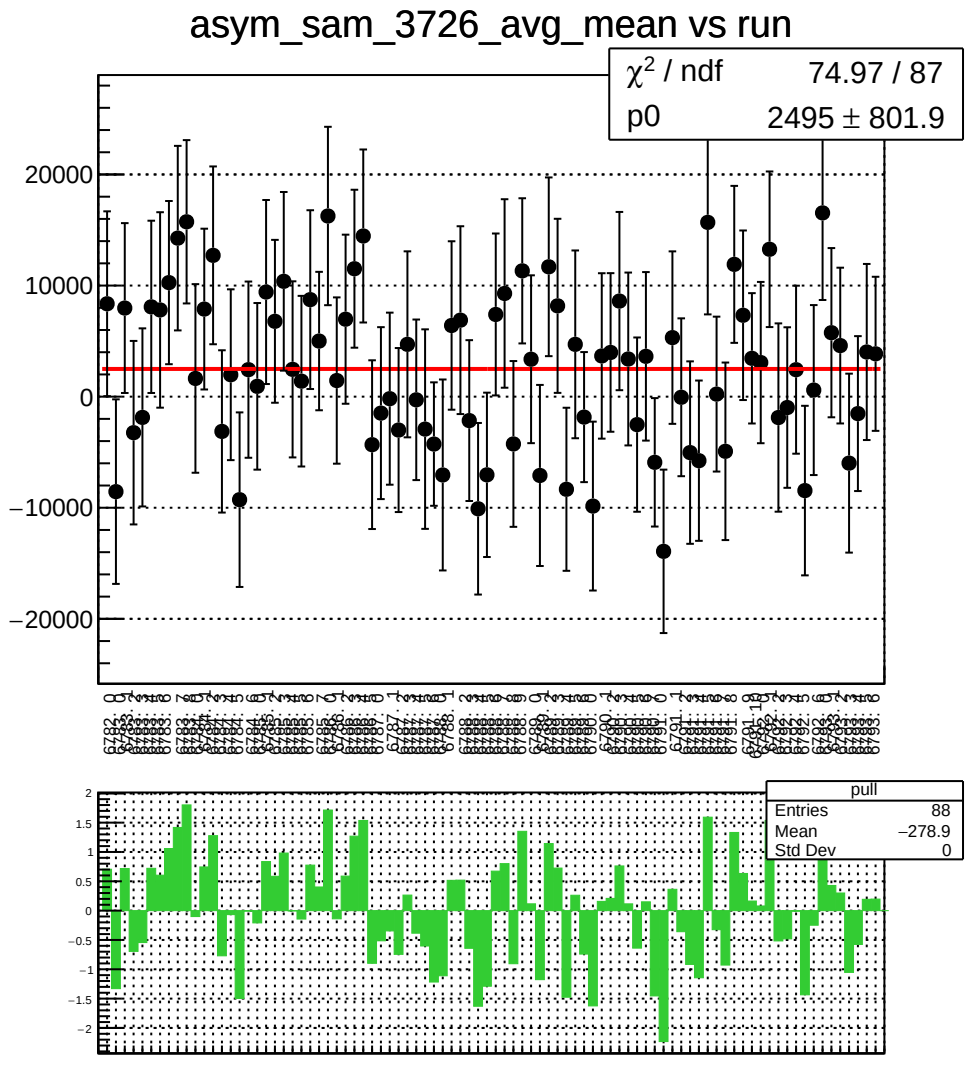

pull1D
Entries 88
Mean 0.01
Std Dev 0.945

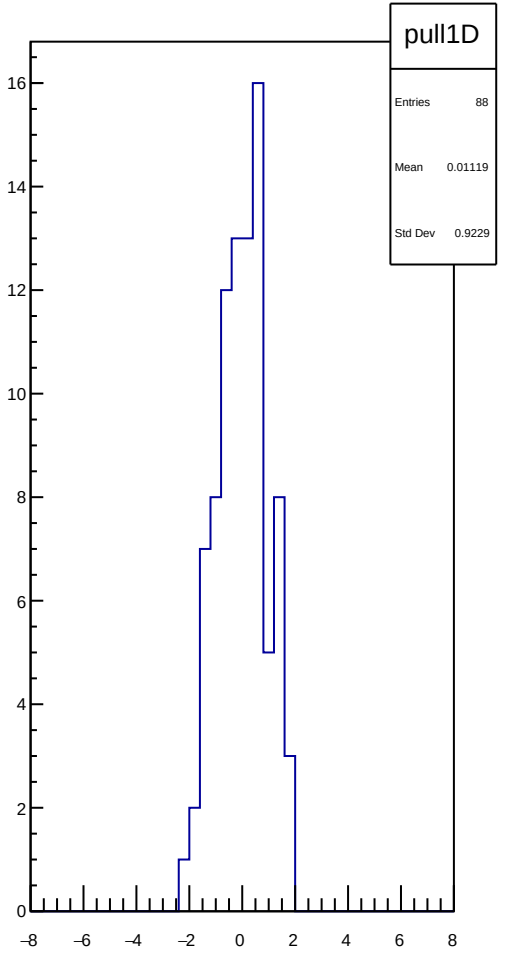

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.766e+04 / 87
p0 90.94 ± 0.07129
150
140
130
120
110
100
90
80
70

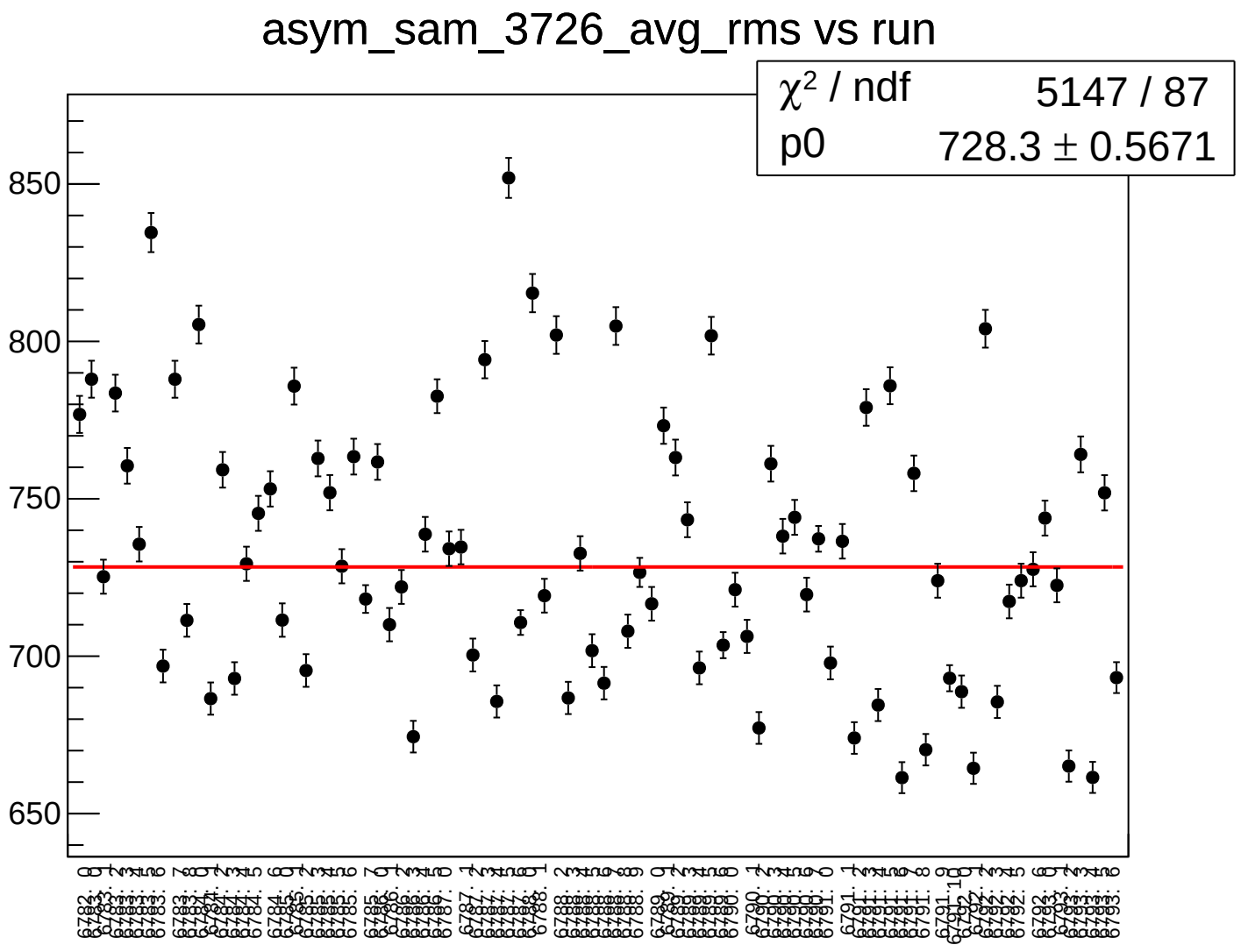

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.9 / 87
p0 −2156 ± 747.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −297.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

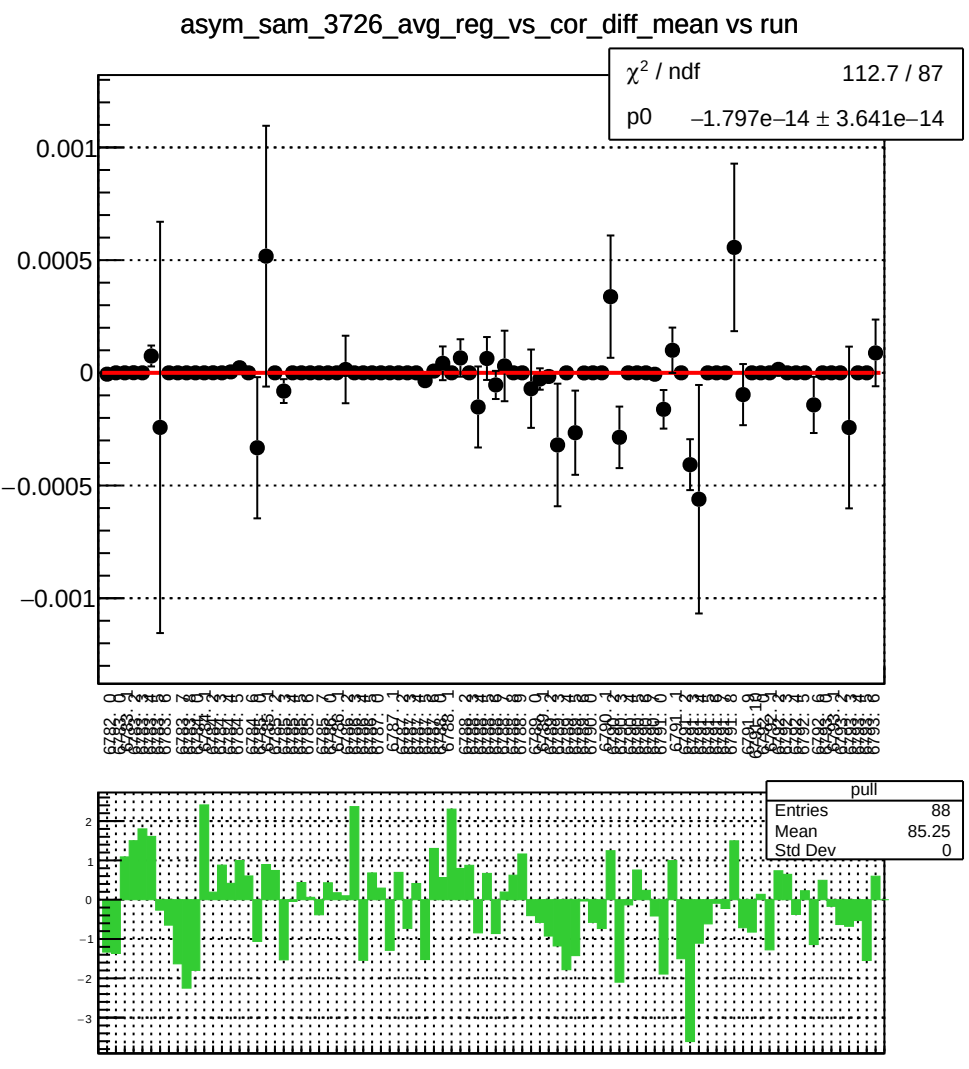

pull1D
Entries 88
Mean −0.01053
Std Dev 0.9163
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

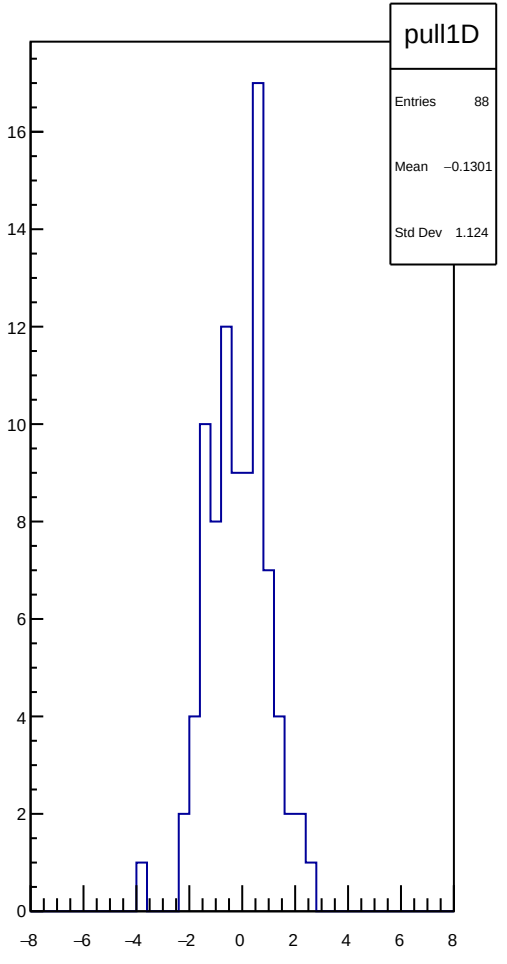

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2715 / 87
p0 679.7 ± 0.5288
760
740
720
700
680
660
640
620

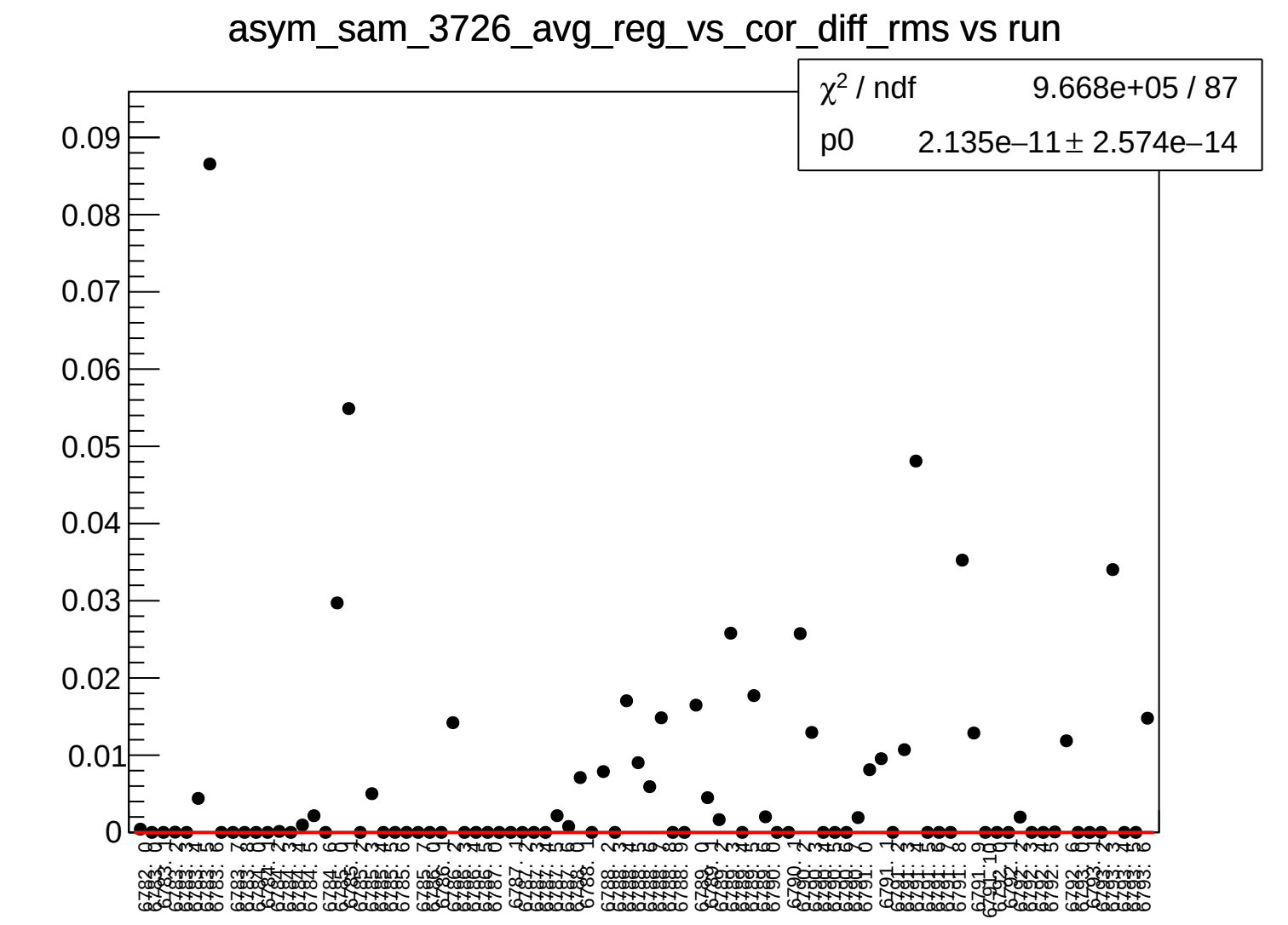

asym_sam_3726_avg_mean vs run
χ² / ndf 74.97 / 87
p0 2495 ± 801.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −278.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

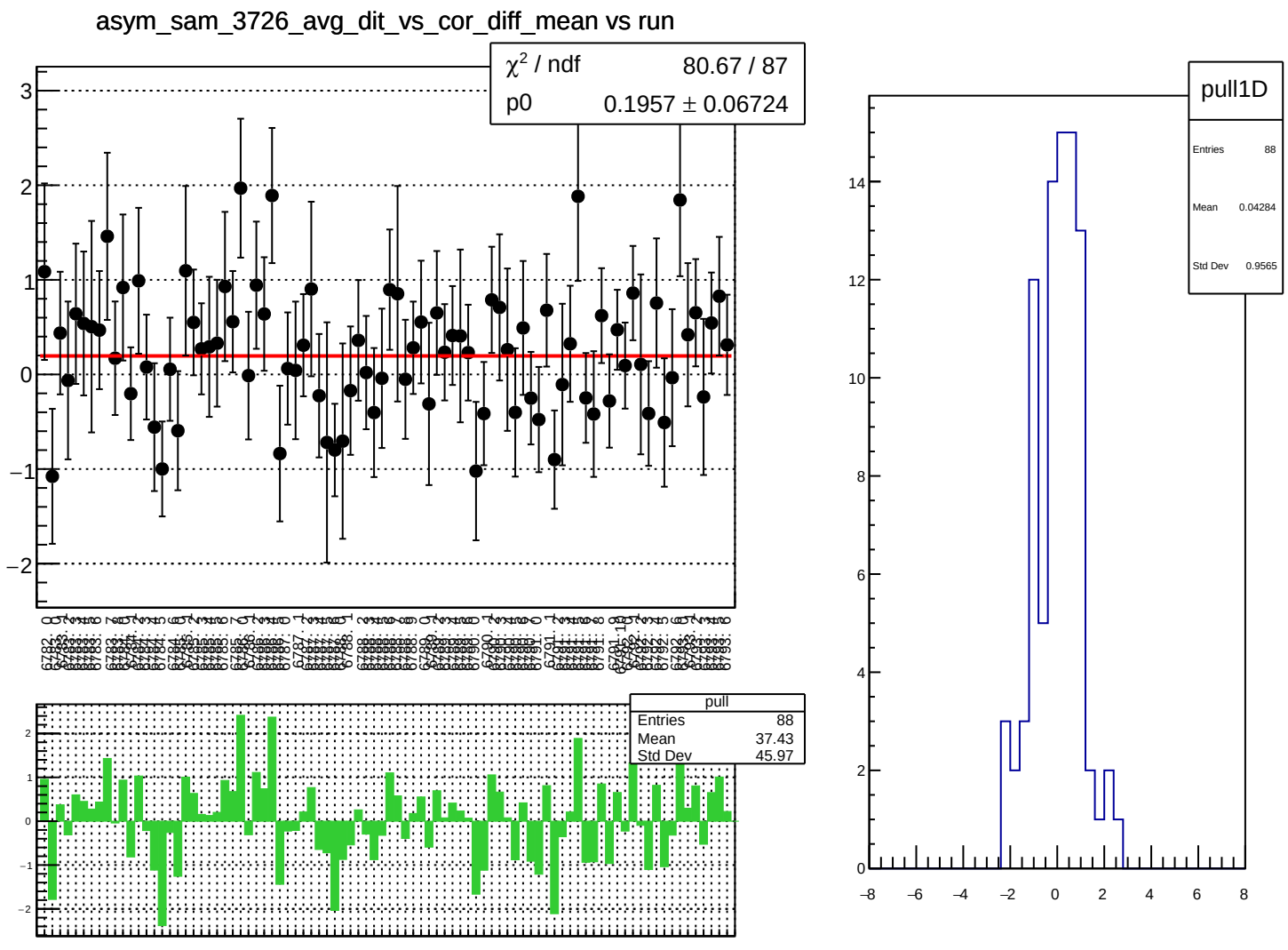

pull1D
Entries 88
Mean 0.01119
Std Dev 0.9229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

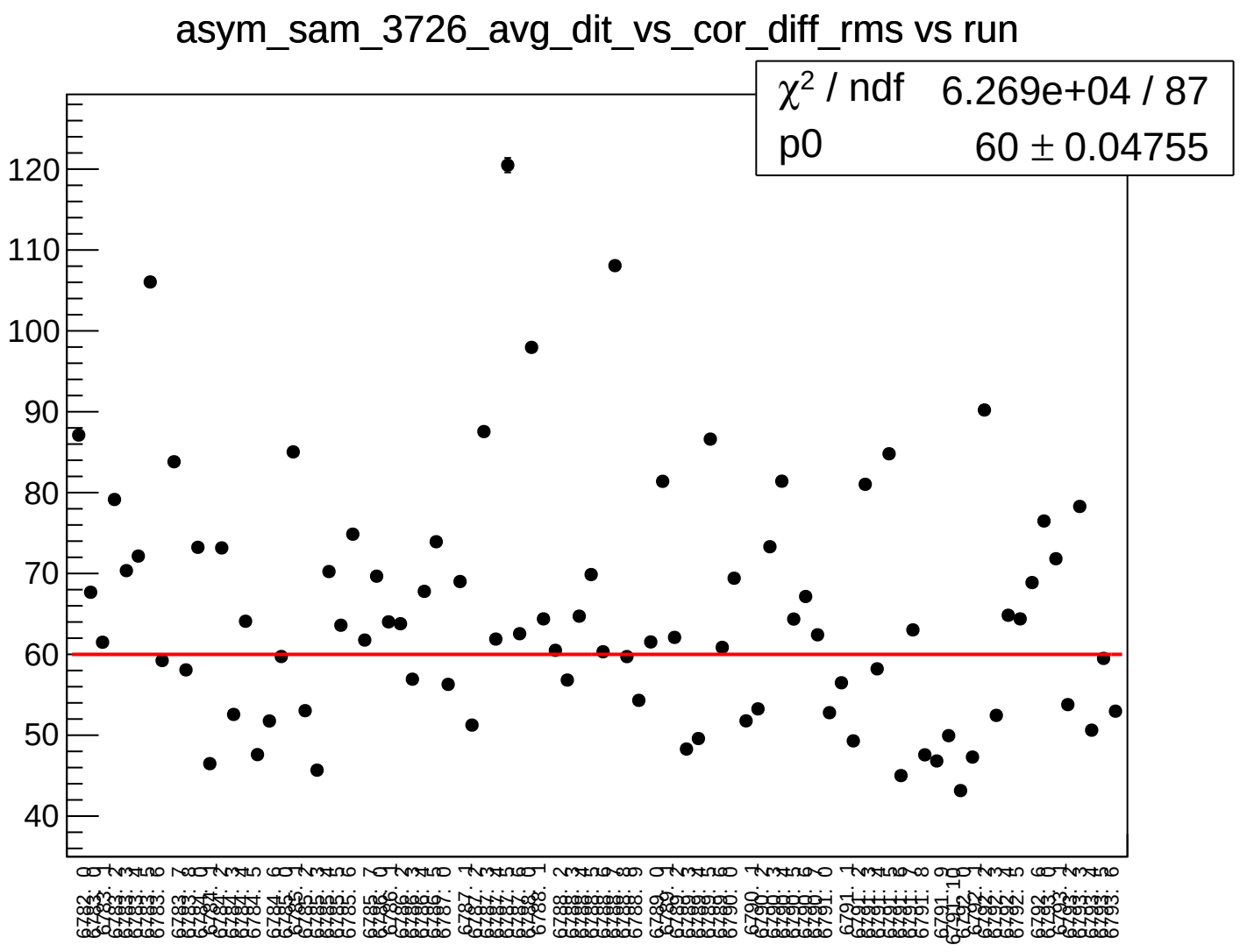

asym_sam_3726_avg_rms vs run
χ² / ndf 5147 / 87
p0 728.3 ± 0.5671
850
800
750
700
650


asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 87
p0 −1.797e−14 ± 3.641e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 85.25
Std Dev 0
2
1
0
−1
−2
−3

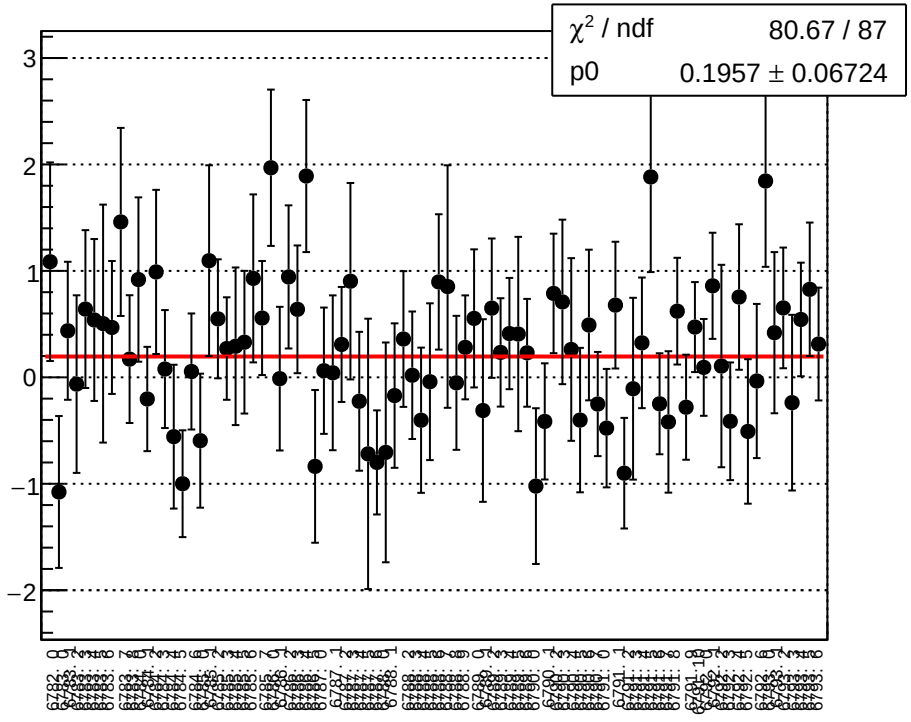

pull1D
Entries 88
Mean −0.1301
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

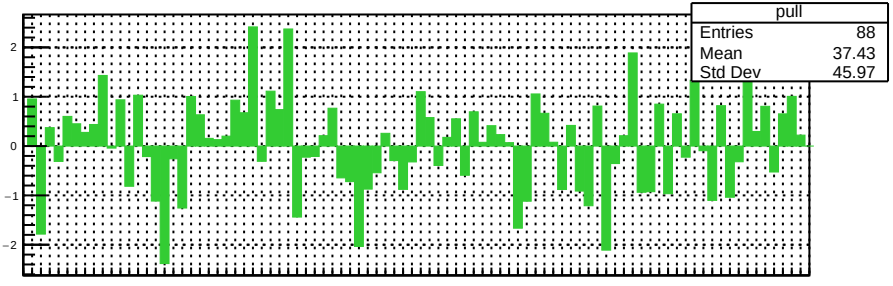

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.668e+05 / 87
p0 2.135e−11 ± 2.574e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

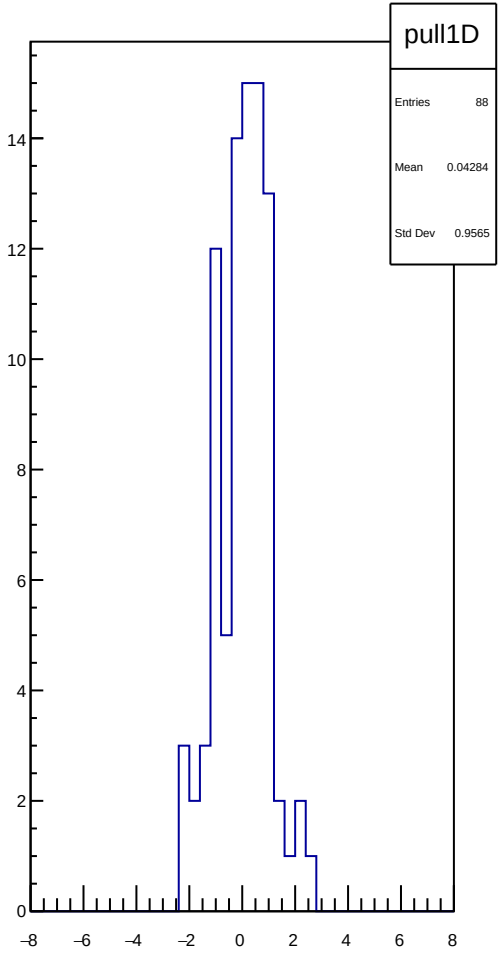

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.67 / 87
p0 0.1957 ± 0.06724
pull
Entries 88
Mean 37.43
Std Dev 45.97
pull1D
Entries 88
Mean 0.04284
Std Dev 0.9565

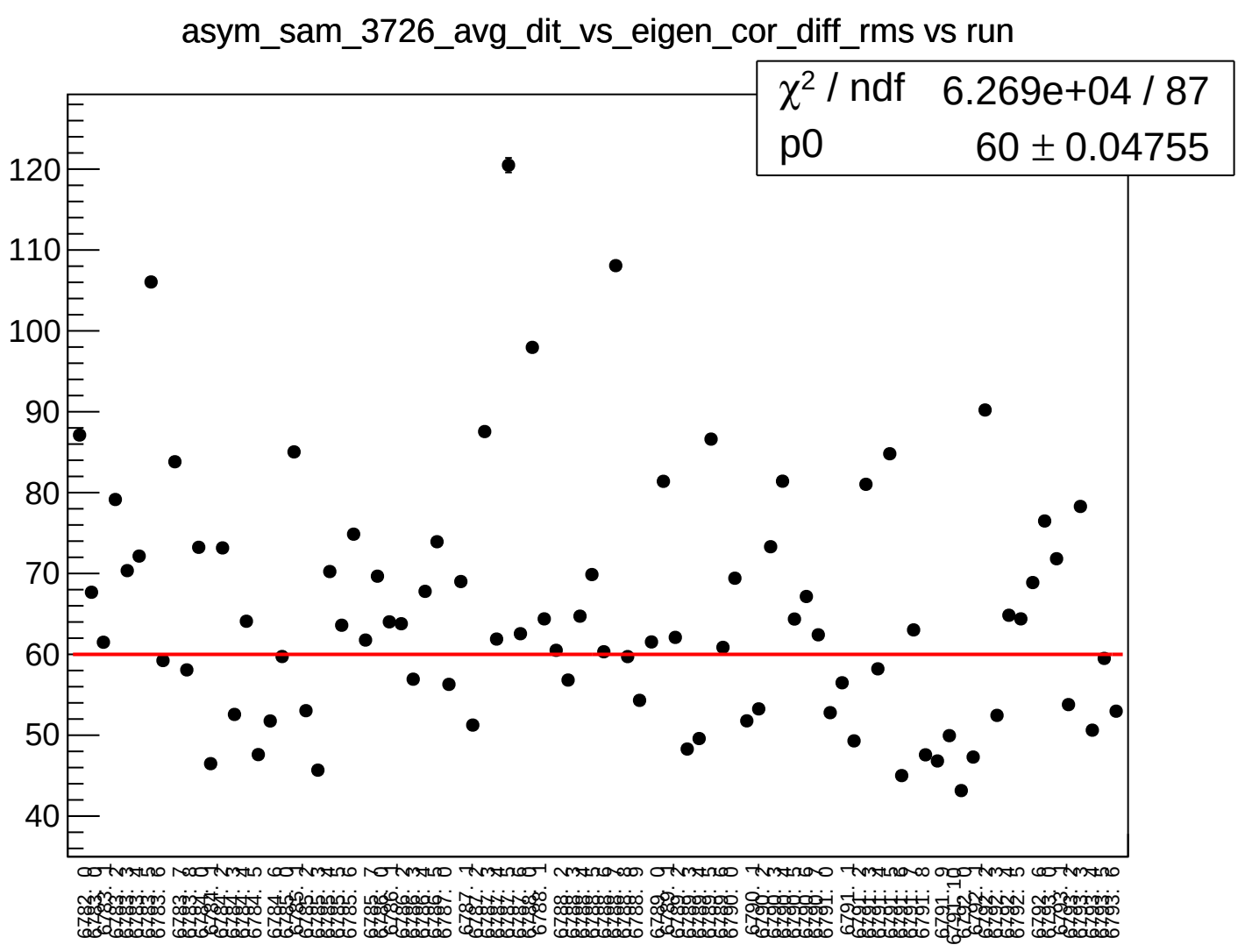

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.269e+04 / 87
p0 60 ± 0.04755
120
110
100
90
80
70
60
50
40

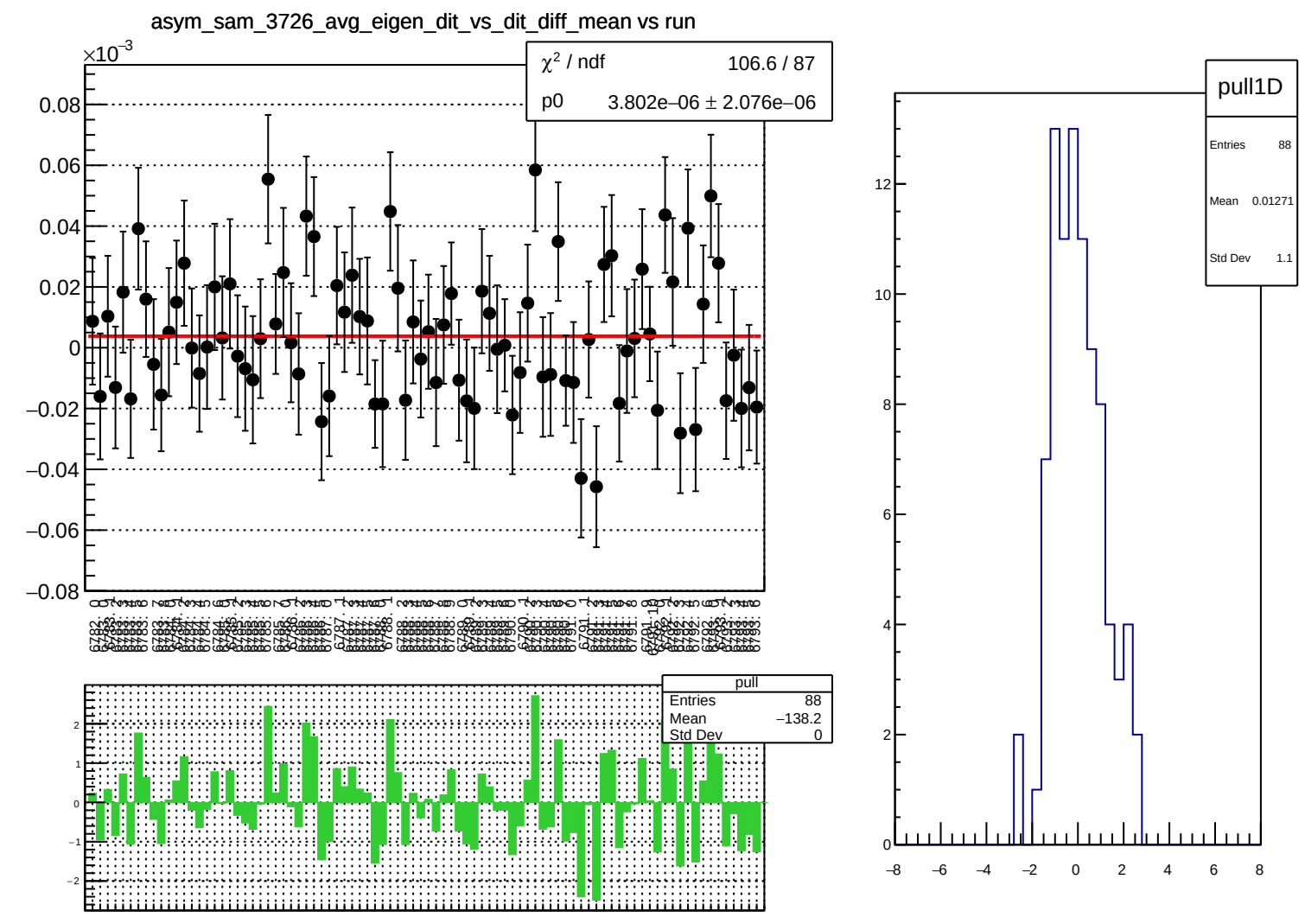
asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run

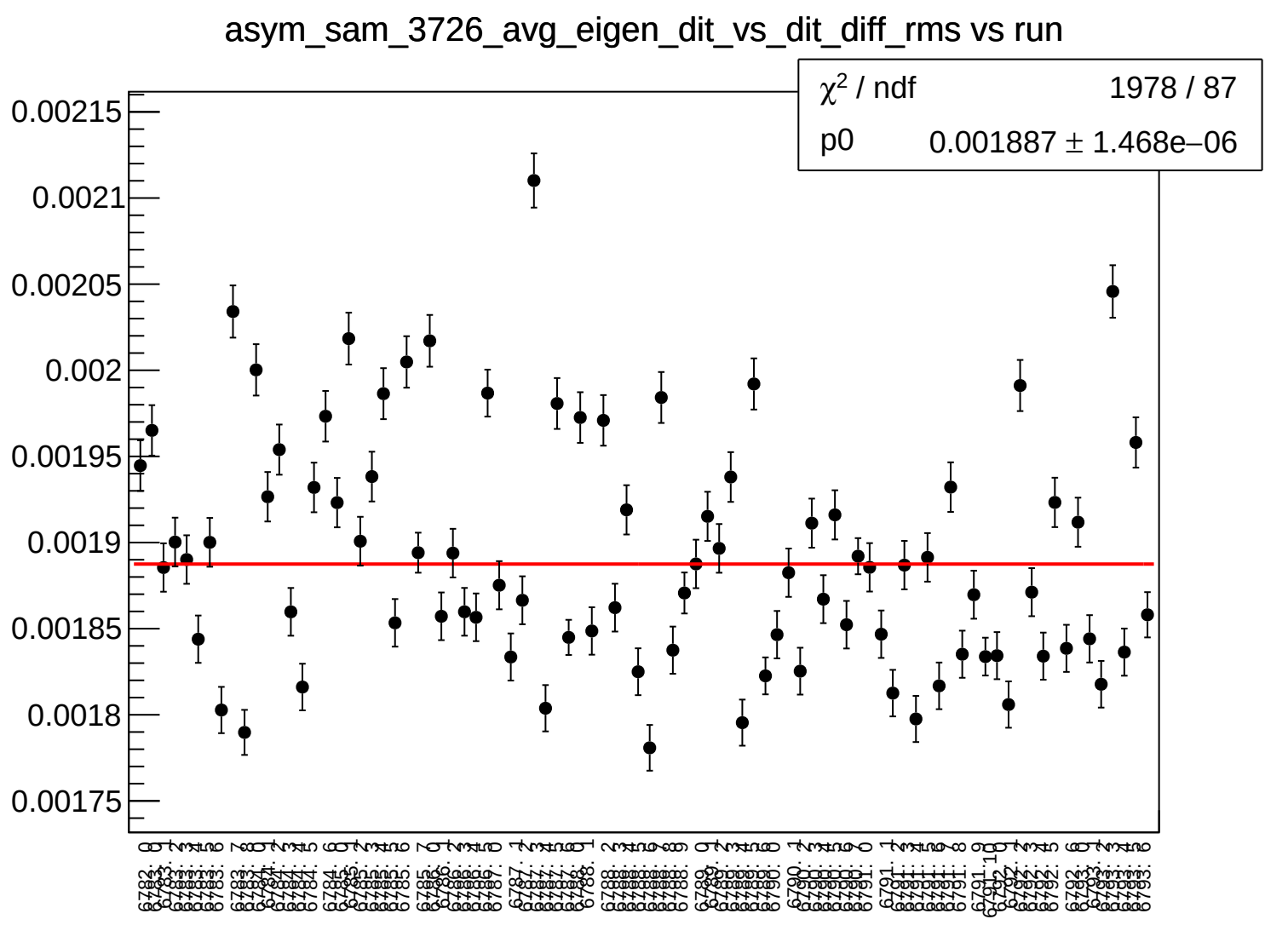


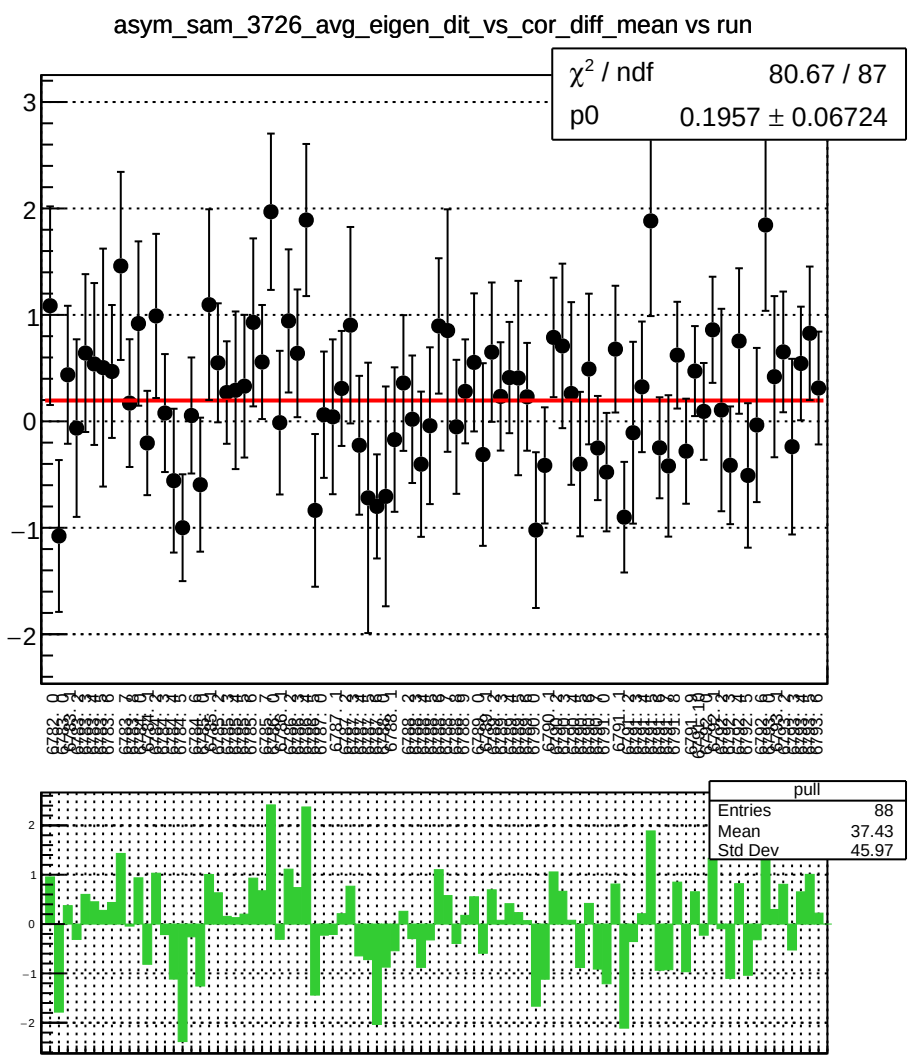


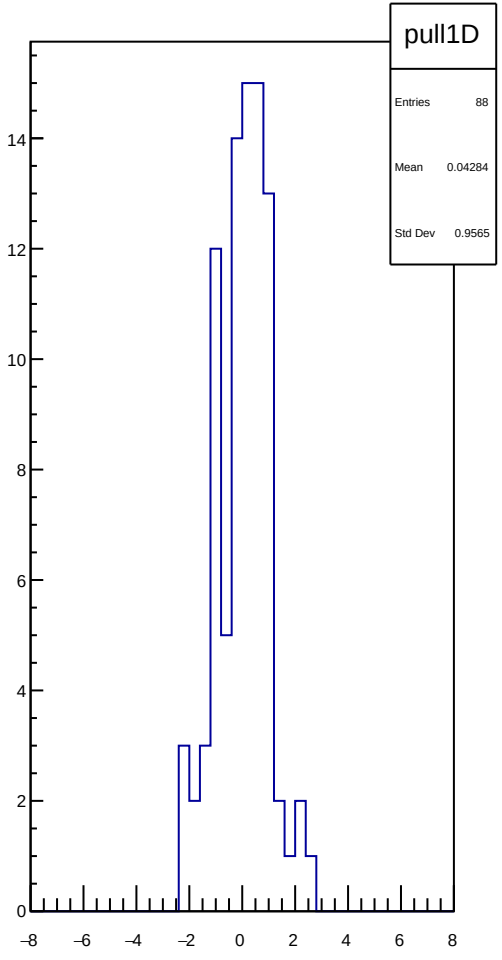


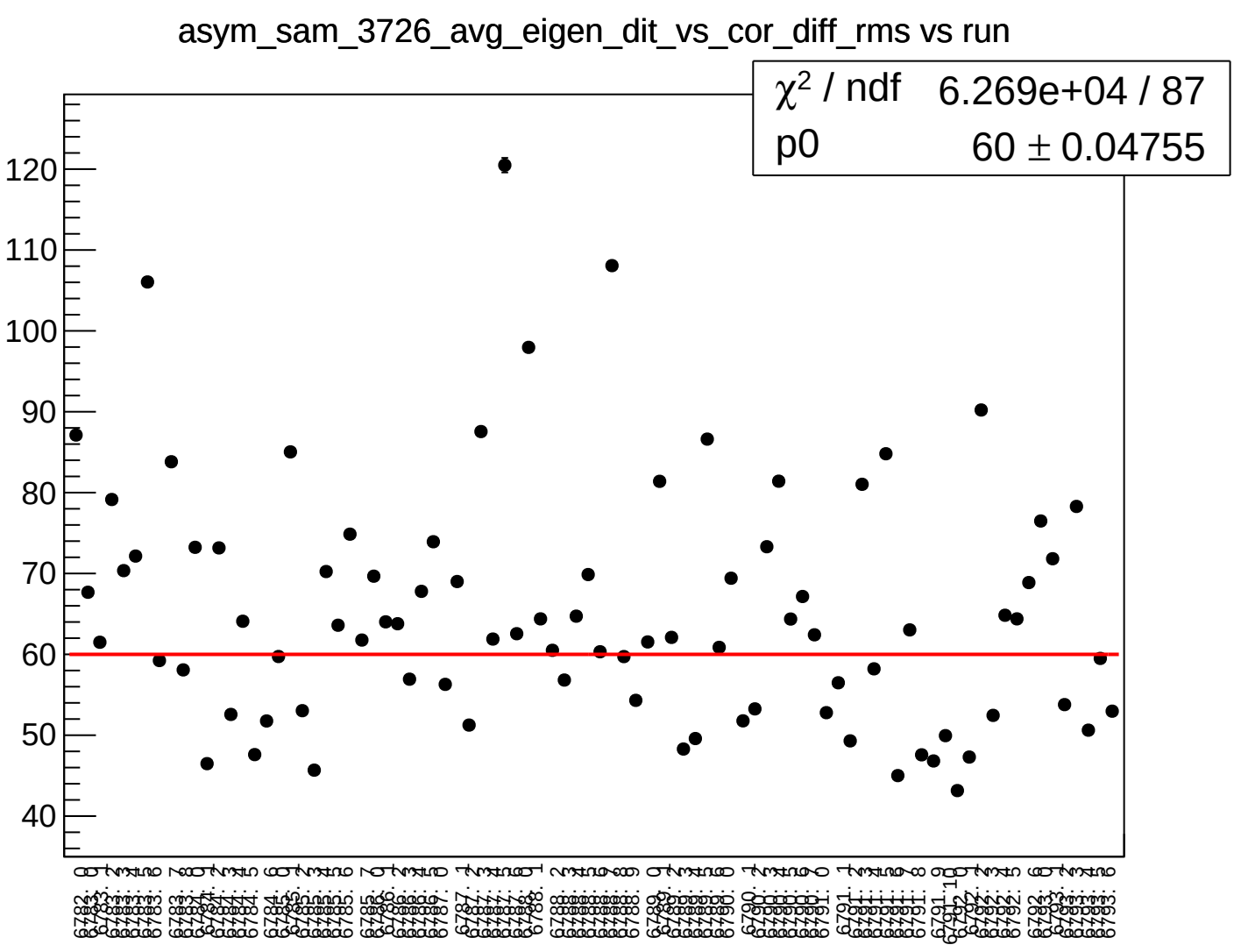

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.269e+04 / 87
p0 60 ± 0.04755
120
110
100
90
80
70
60
50
40


asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.6 / 87
p0 3.802e−06 ± 2.076e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean −138.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01271
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

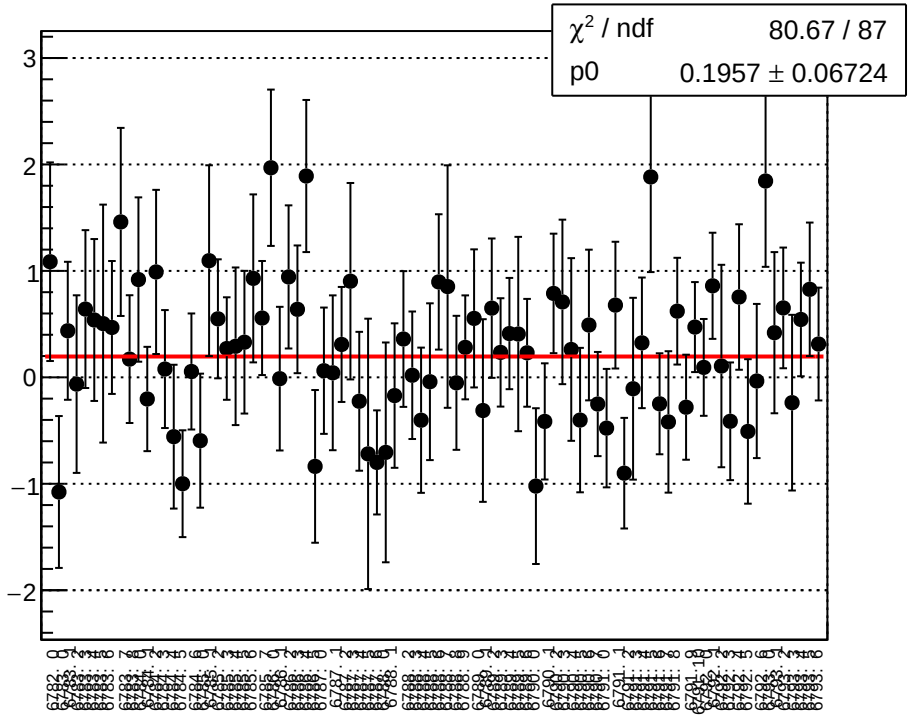

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1978 / 87
p0 0.001887 ± 1.468e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175

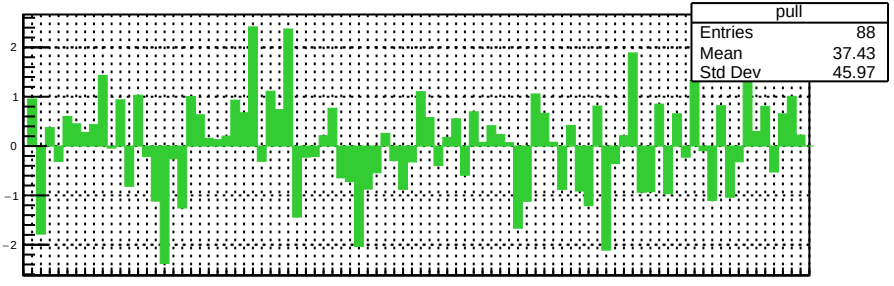

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.67 / 87
p0 0.1957 ± 0.06724
pull
Entries 88
Mean 37.43
Std Dev 45.97

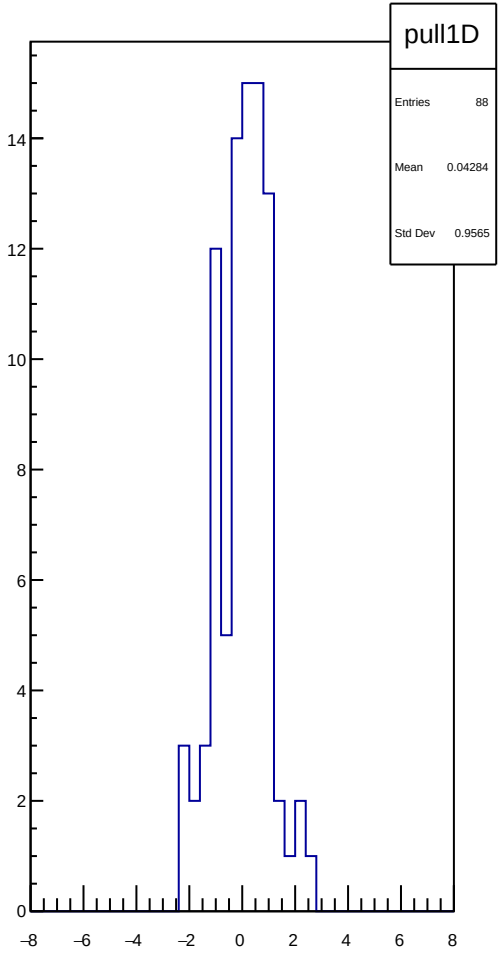

pull1D
Entries 88
Mean 0.04284
Std Dev 0.9565

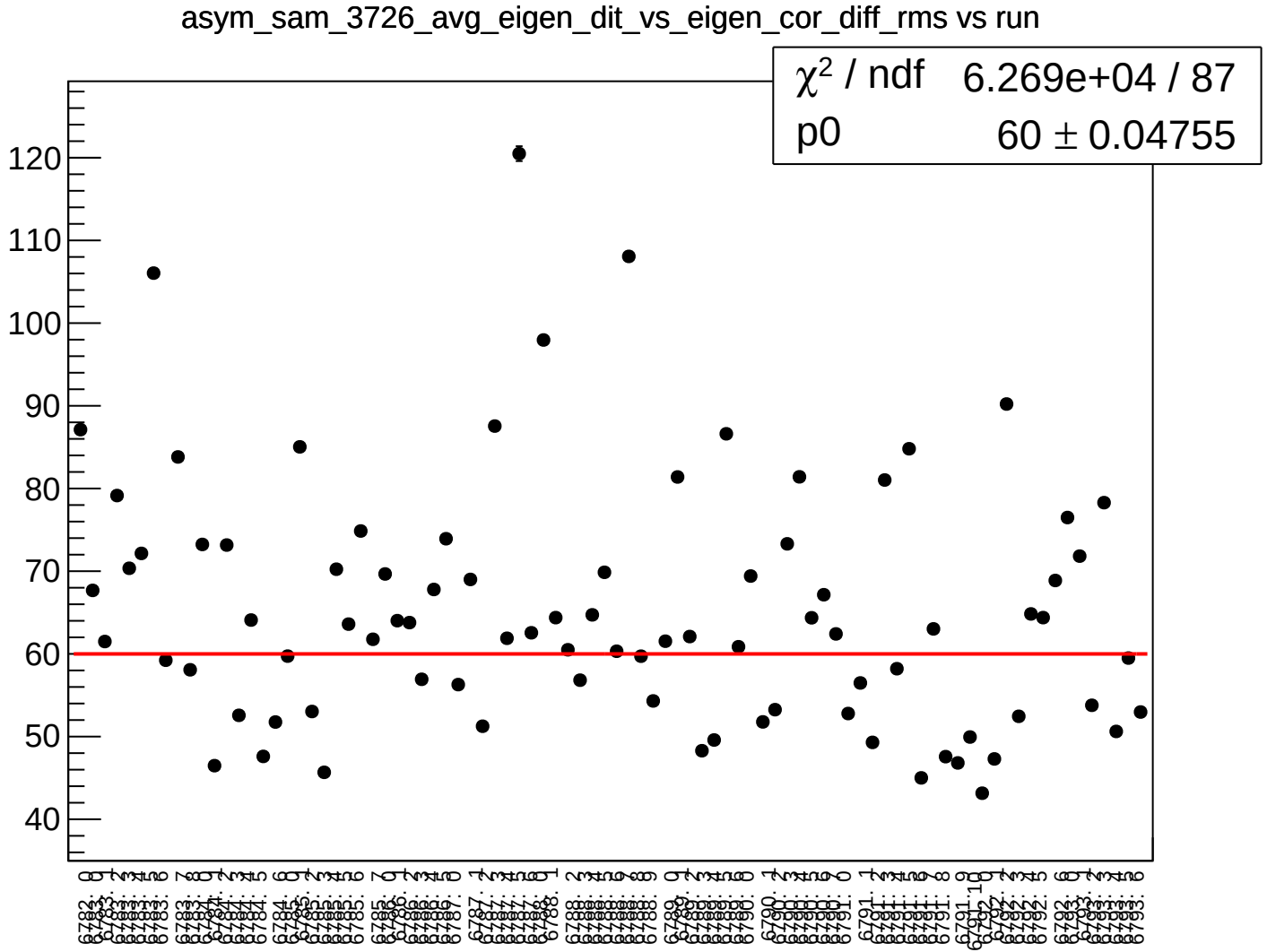

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.269e+04 / 87
p0 60 ± 0.04755
120
110
100
90
80
70
60
50
40

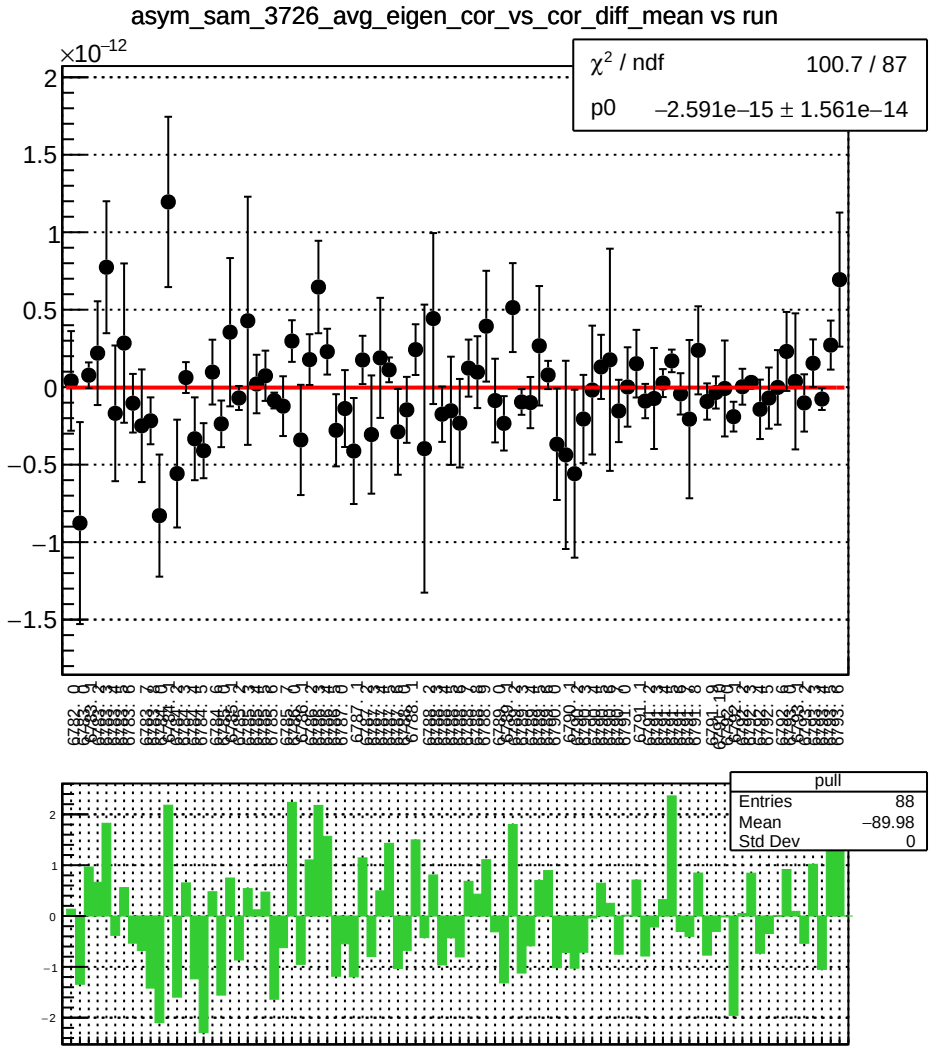
asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

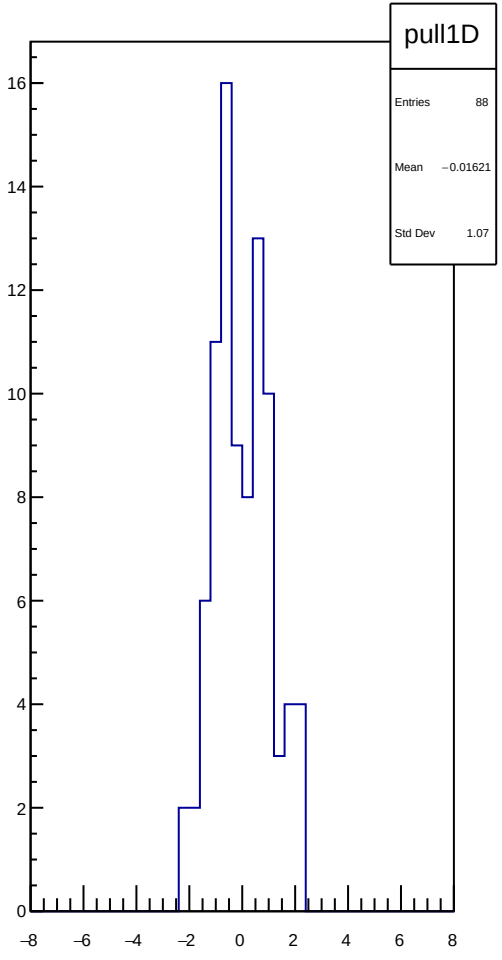


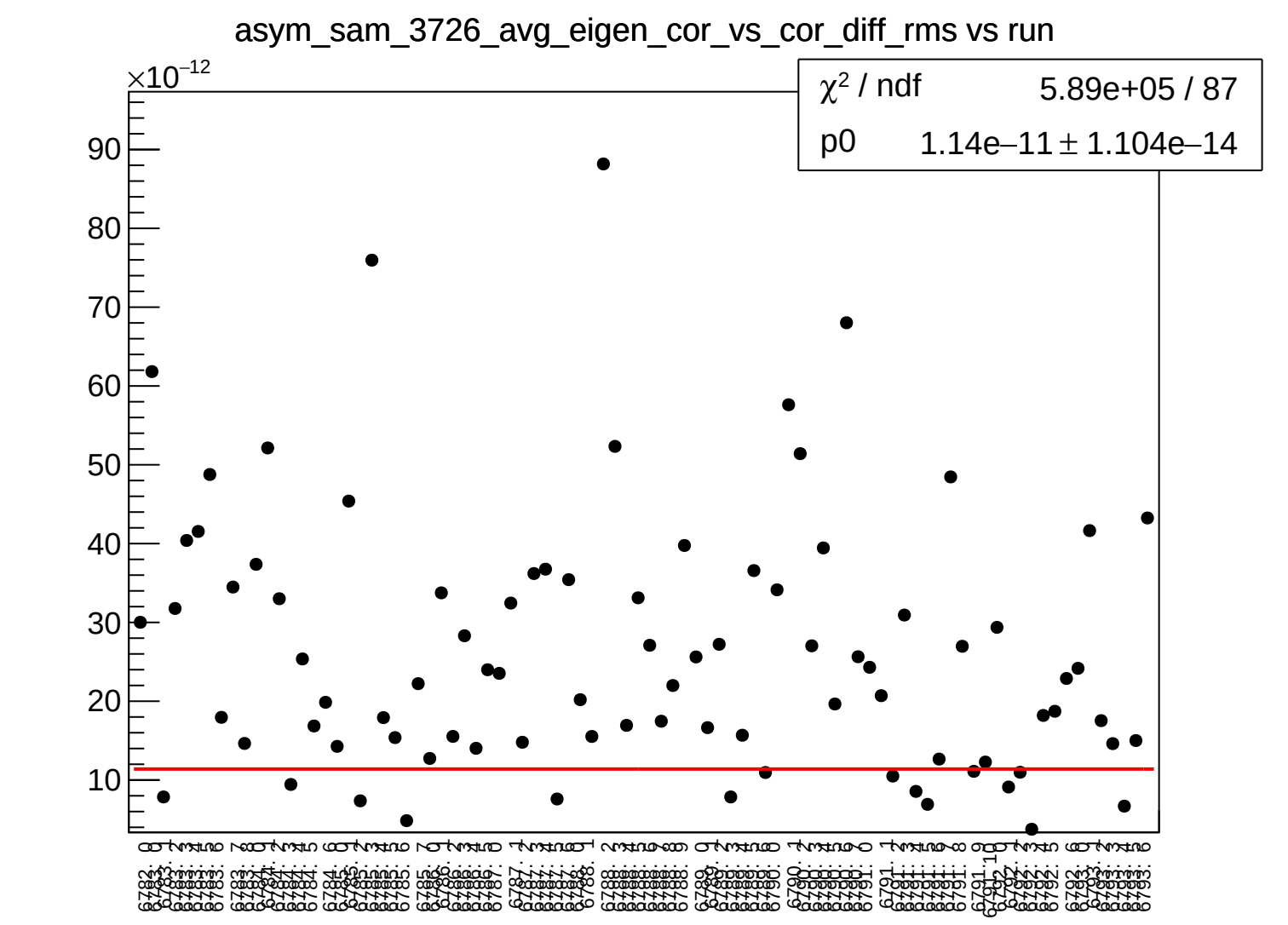


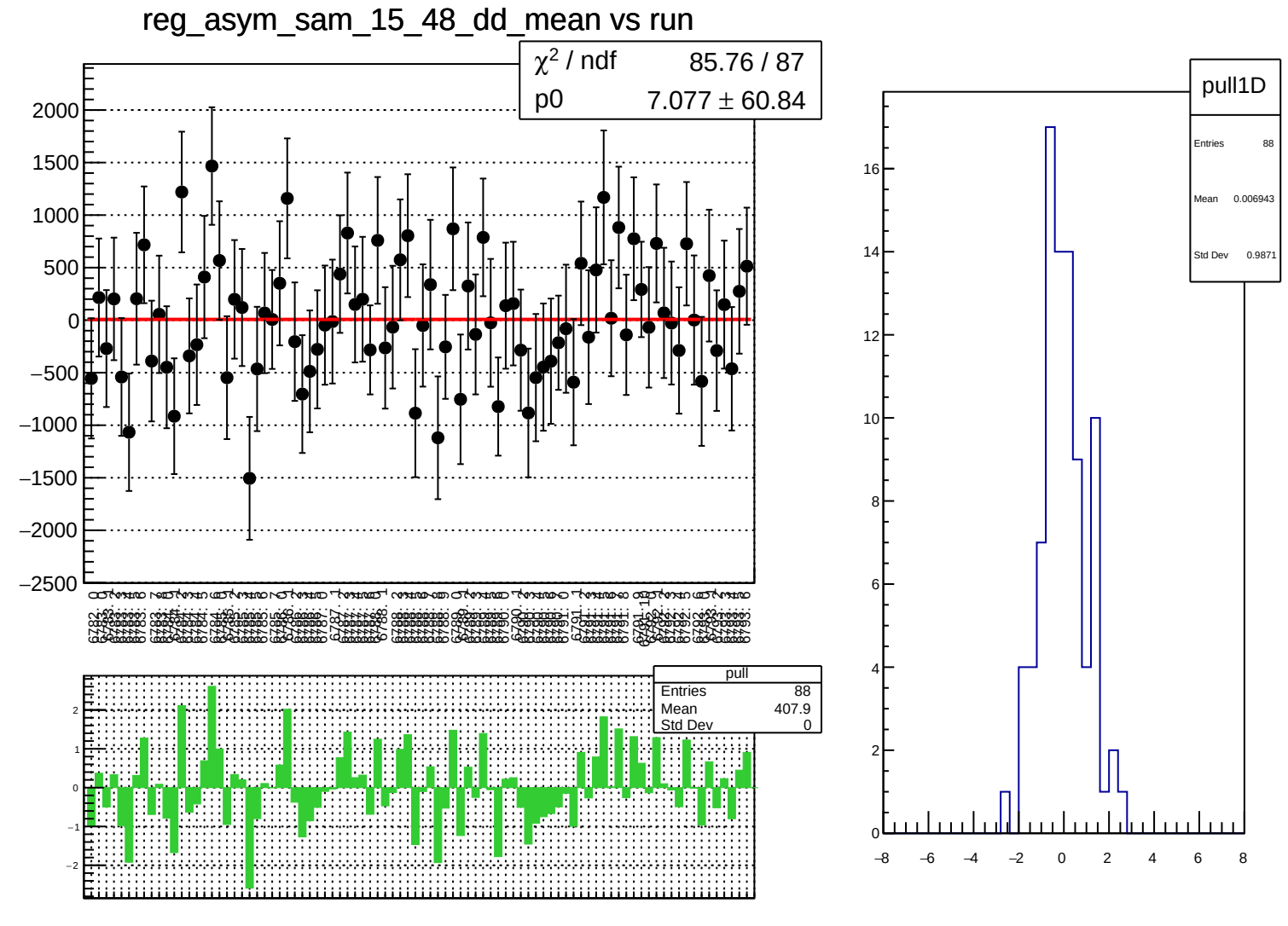


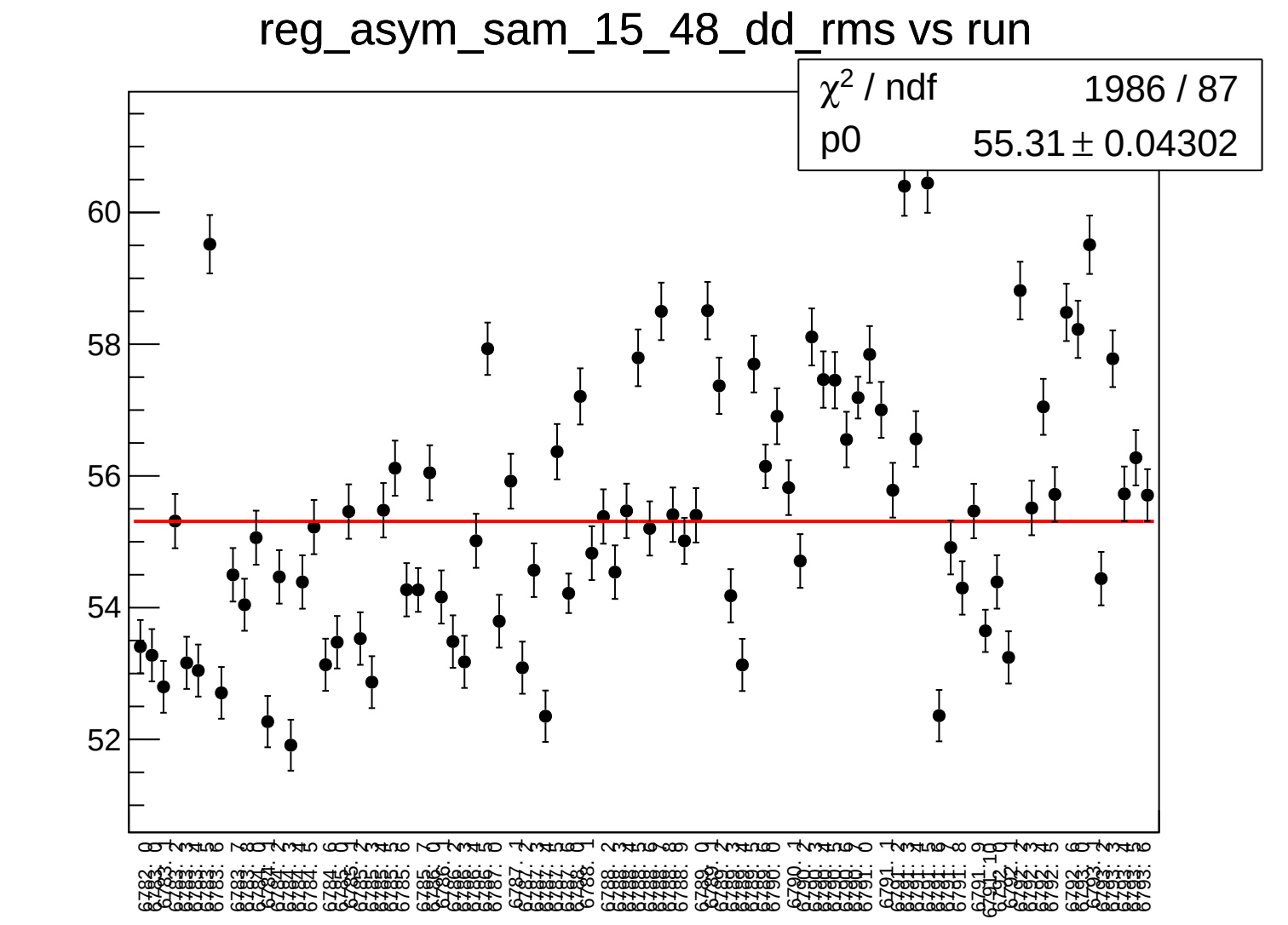

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.269e+04 / 87
p0 60 ± 0.04755
120
110
100
90
80
70
60
50
40

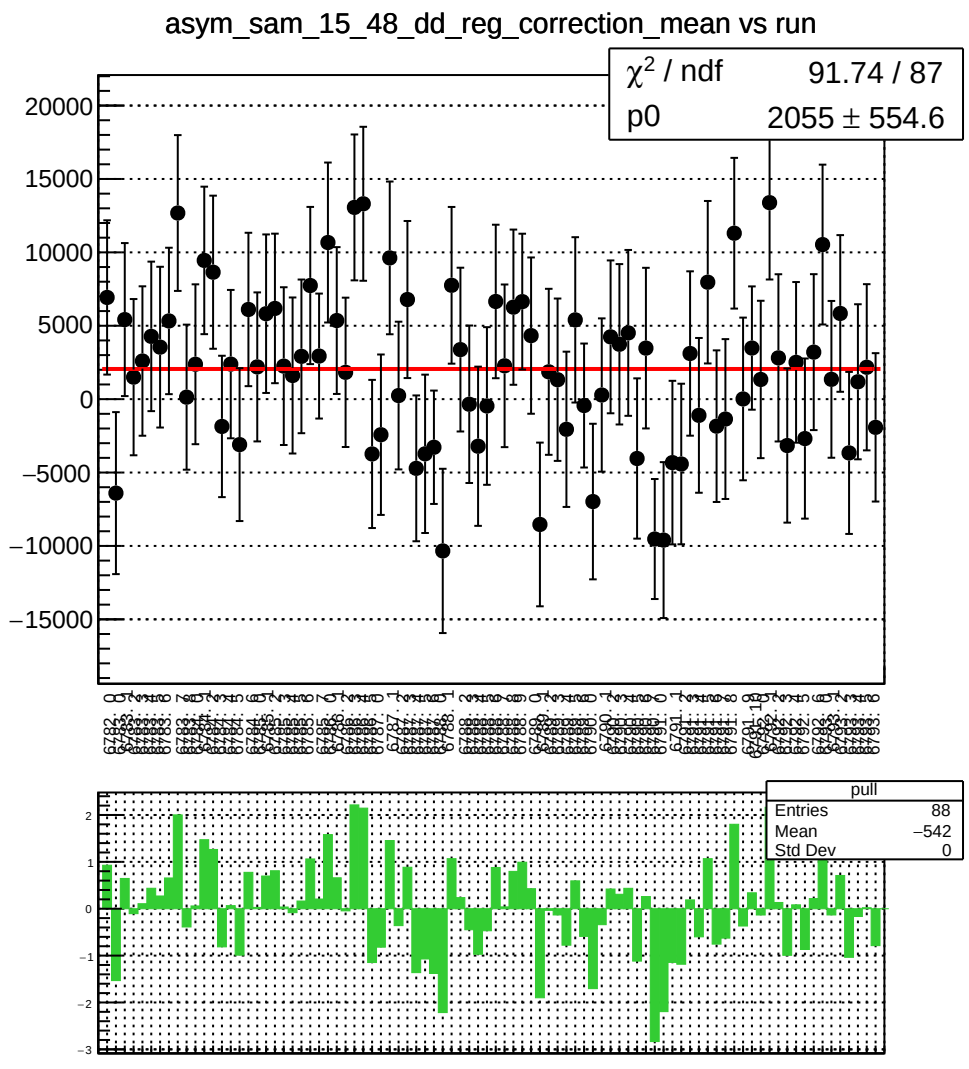

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 87
p0 −2.591e−15 ± 1.561e−14
pull
Entries 88
Mean −89.98
Std Dev 0

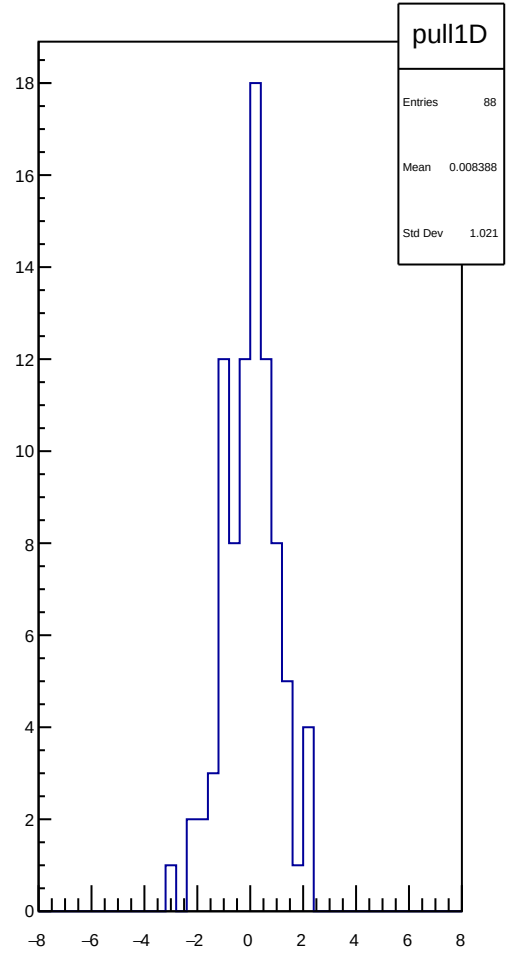

pull1D
Entries 88
Mean −0.01621
Std Dev 1.07

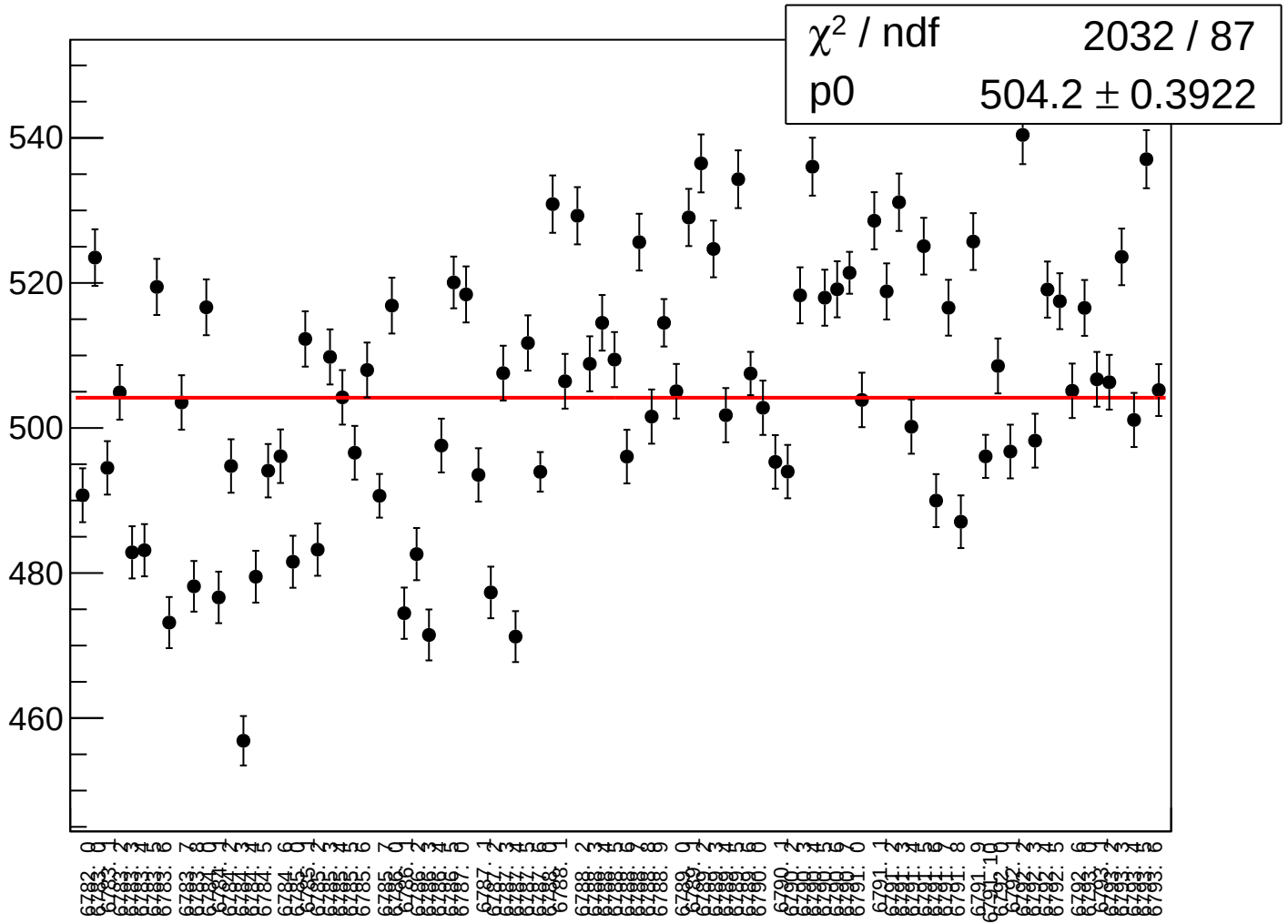

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.89e+05 / 87
p0 1.14e−11 ± 1.104e−14
90
80
70
60
50
40
30
20
10

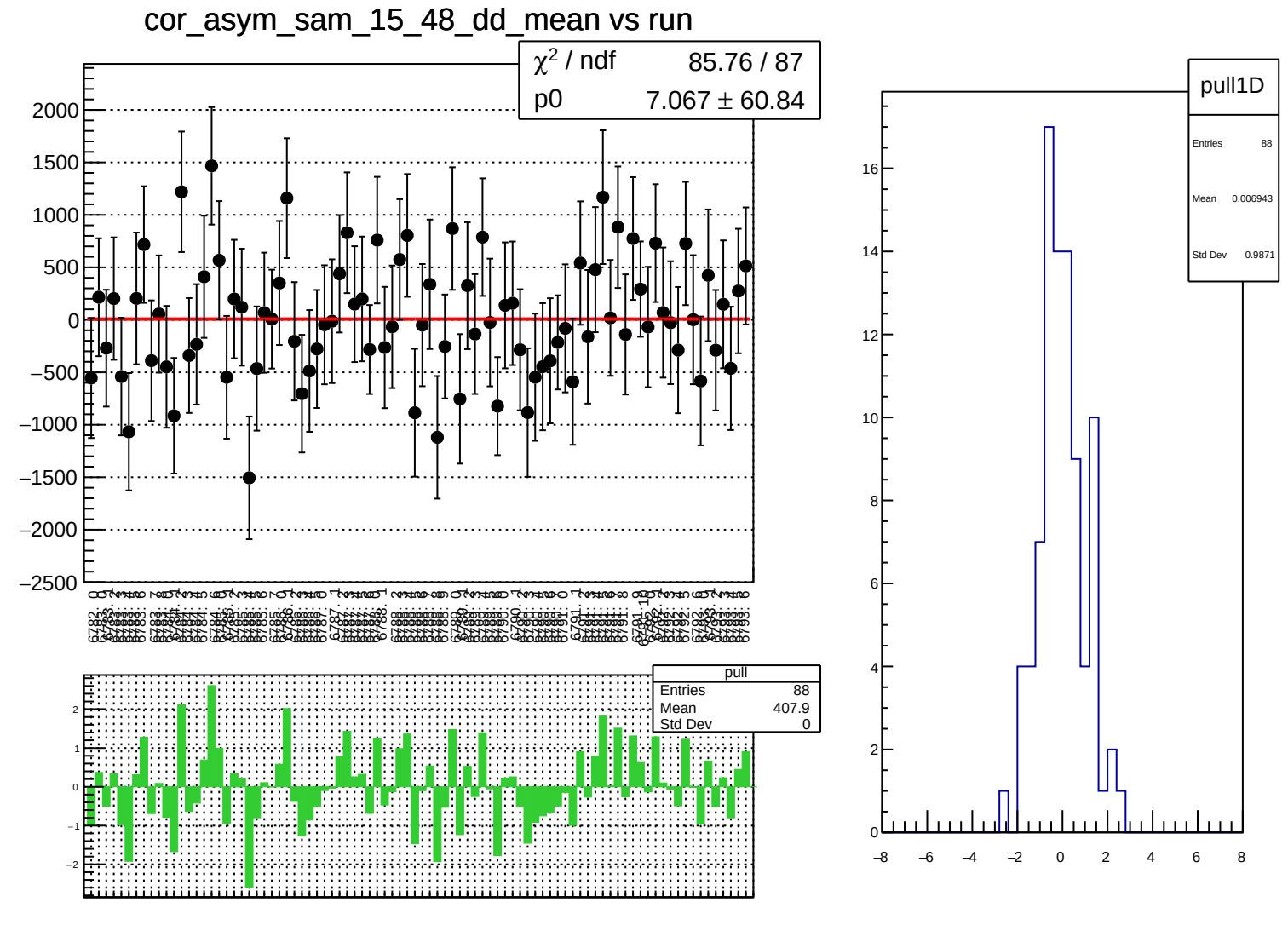

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.76 / 87
p0 7.077 ± 60.84
pull
Entries 88
Mean 407.9
Std Dev 0
pull1D
Entries 88
Mean 0.006943
Std Dev 0.9871

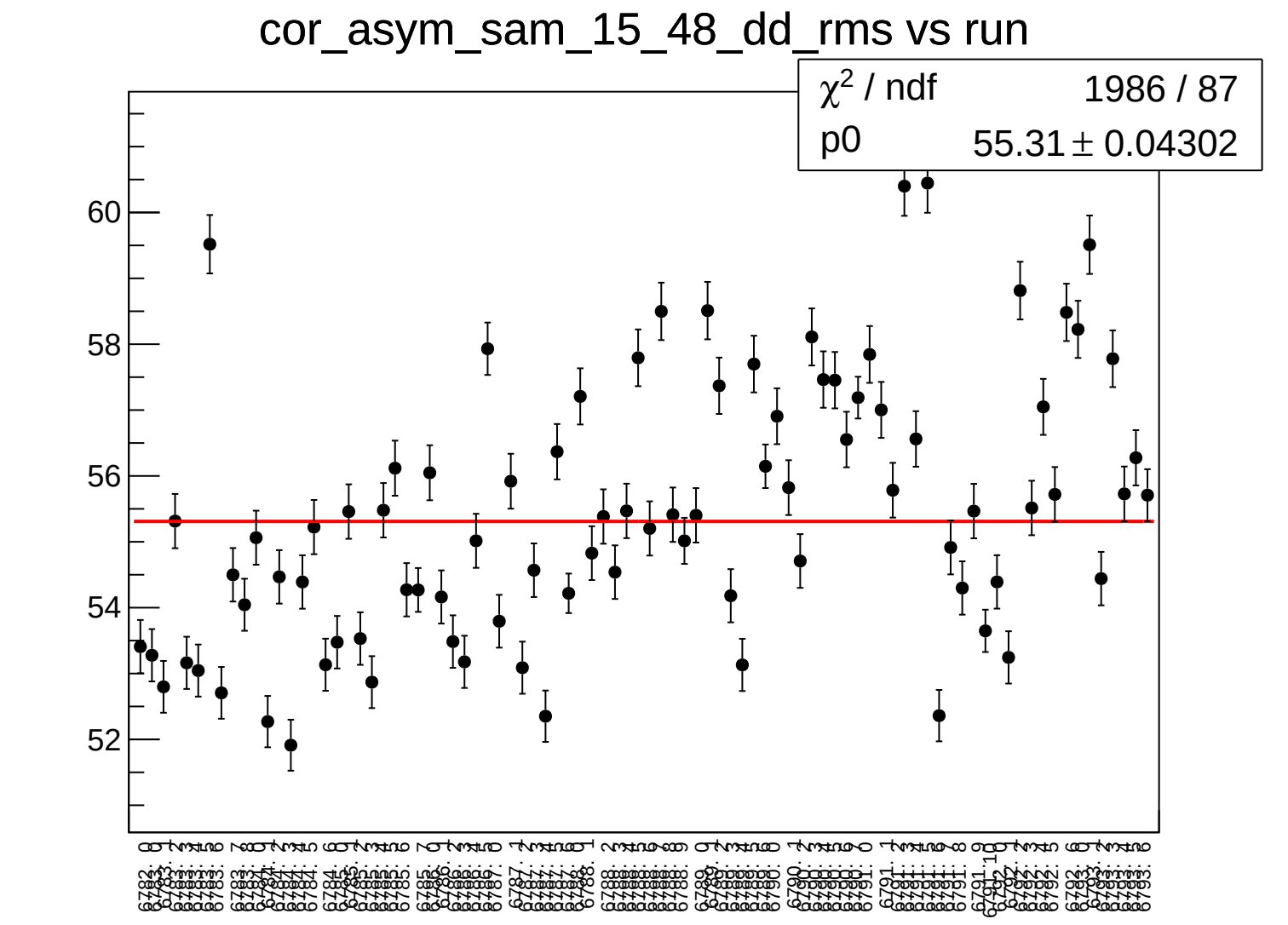

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1986 / 87
p0 55.31 ± 0.04302
60
58
56
54
52

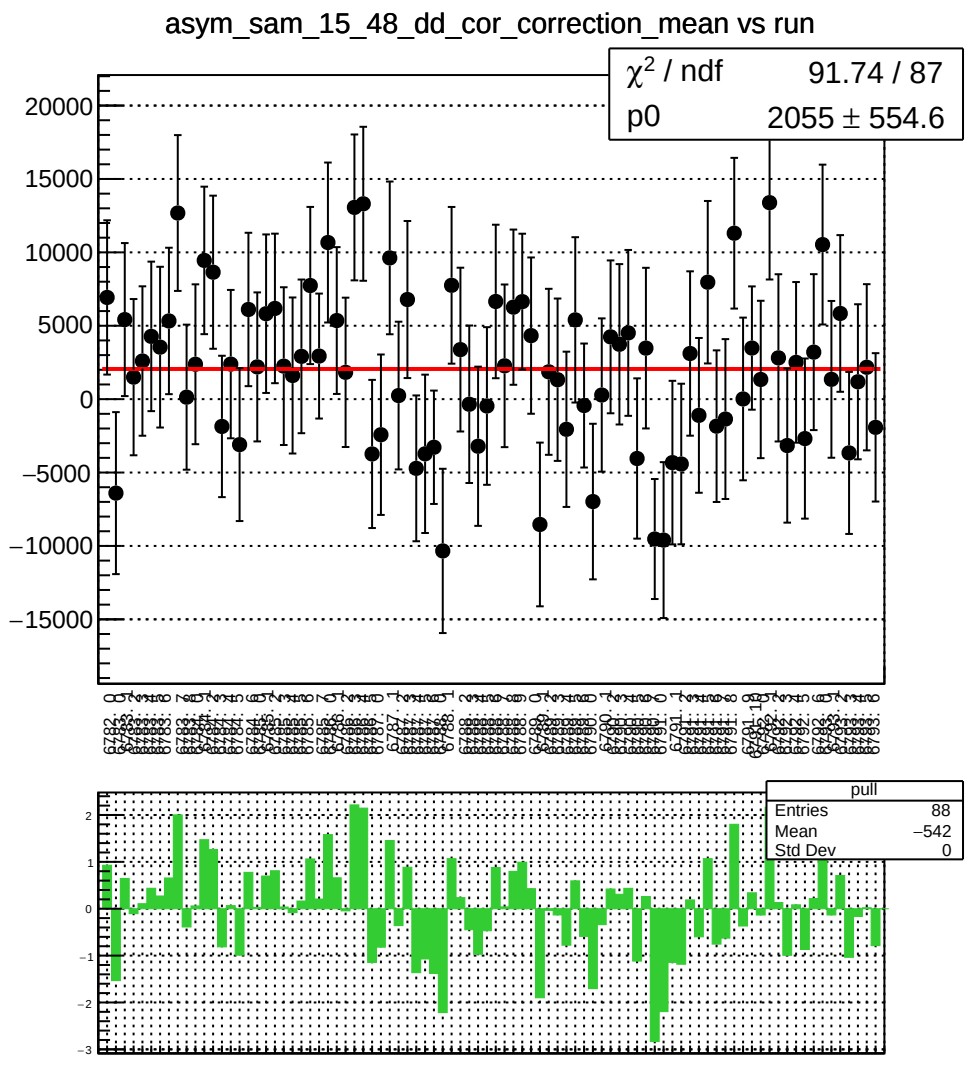

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 91.74 / 87
p0 2055 ± 554.6
pull
Entries 88
Mean −542
Std Dev 0

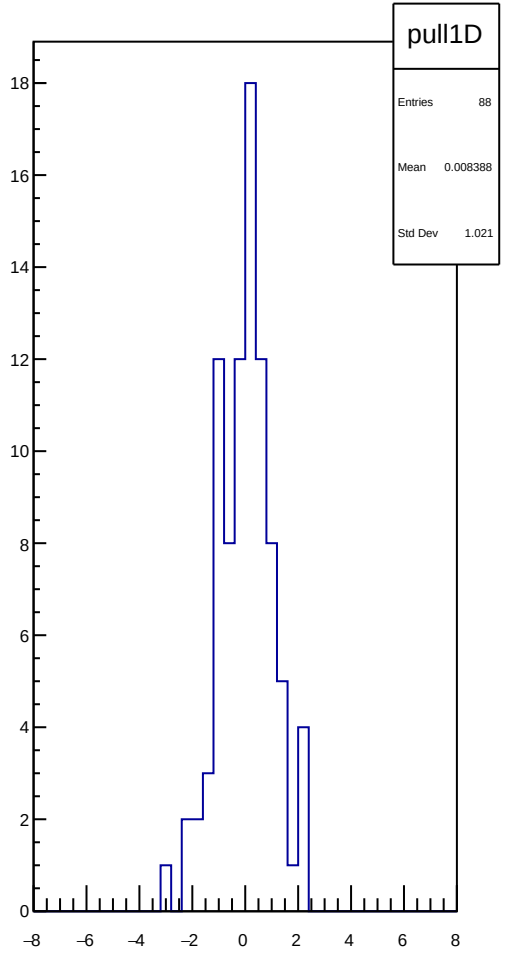

pull1D
Entries 88
Mean 0.008388
Std Dev 1.021

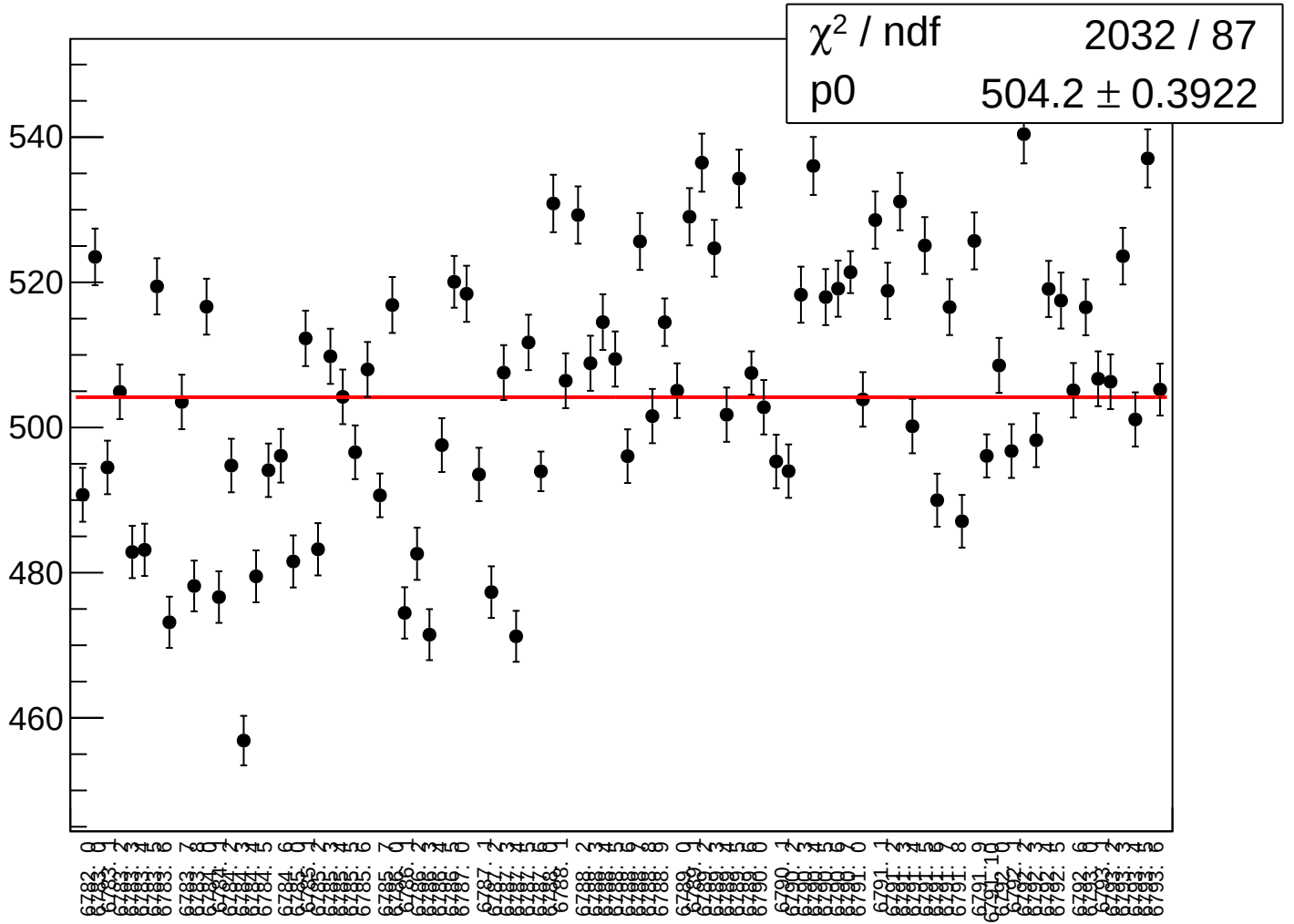

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2032 / 87
p0 504.2 ± 0.3922
540
520
500
480
460

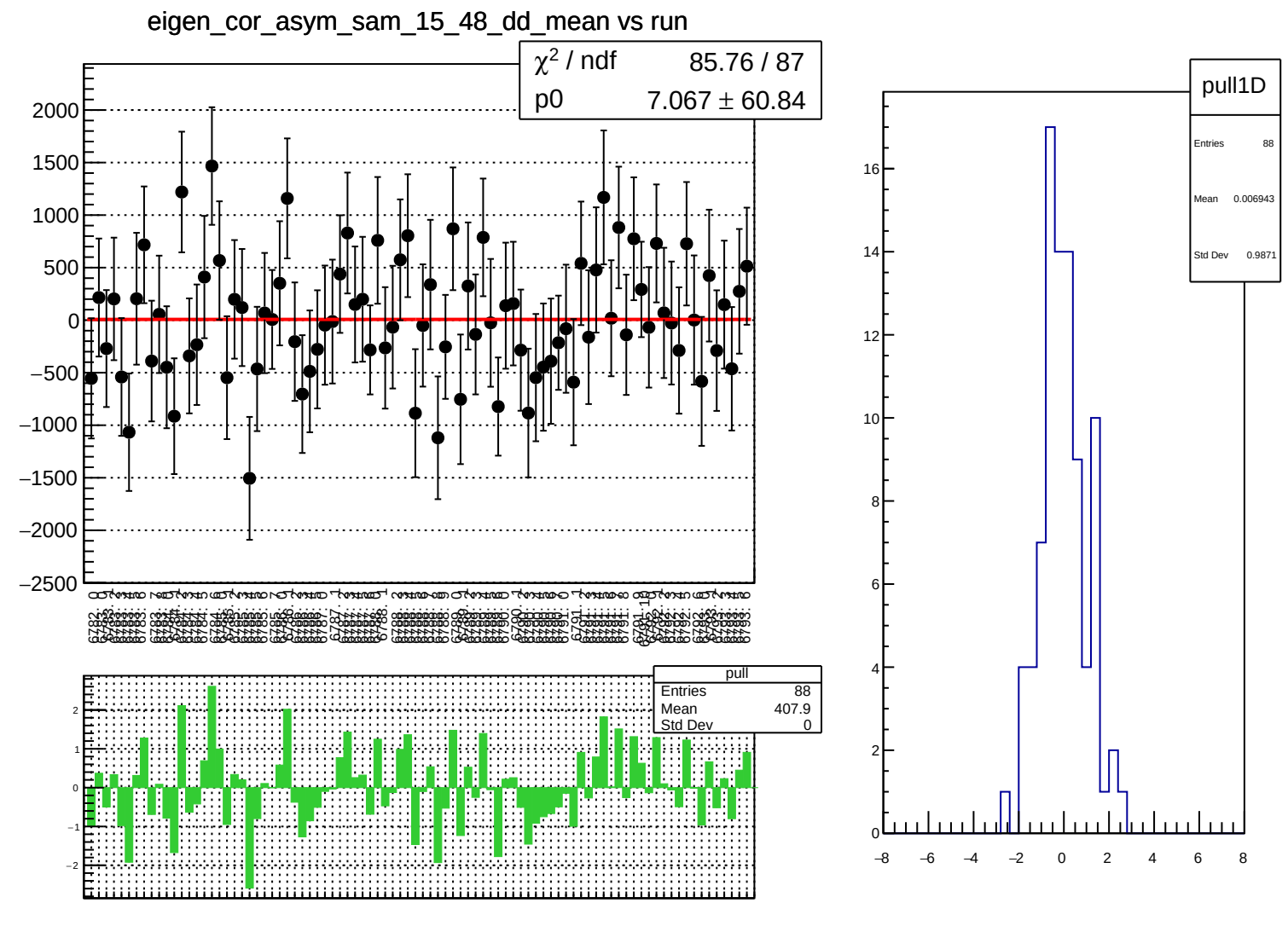

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.76 / 87
p0 7.067 ± 60.84
pull
Entries 88
Mean 407.9
Std Dev 0
pull1D
Entries 88
Mean 0.006943
Std Dev 0.9871

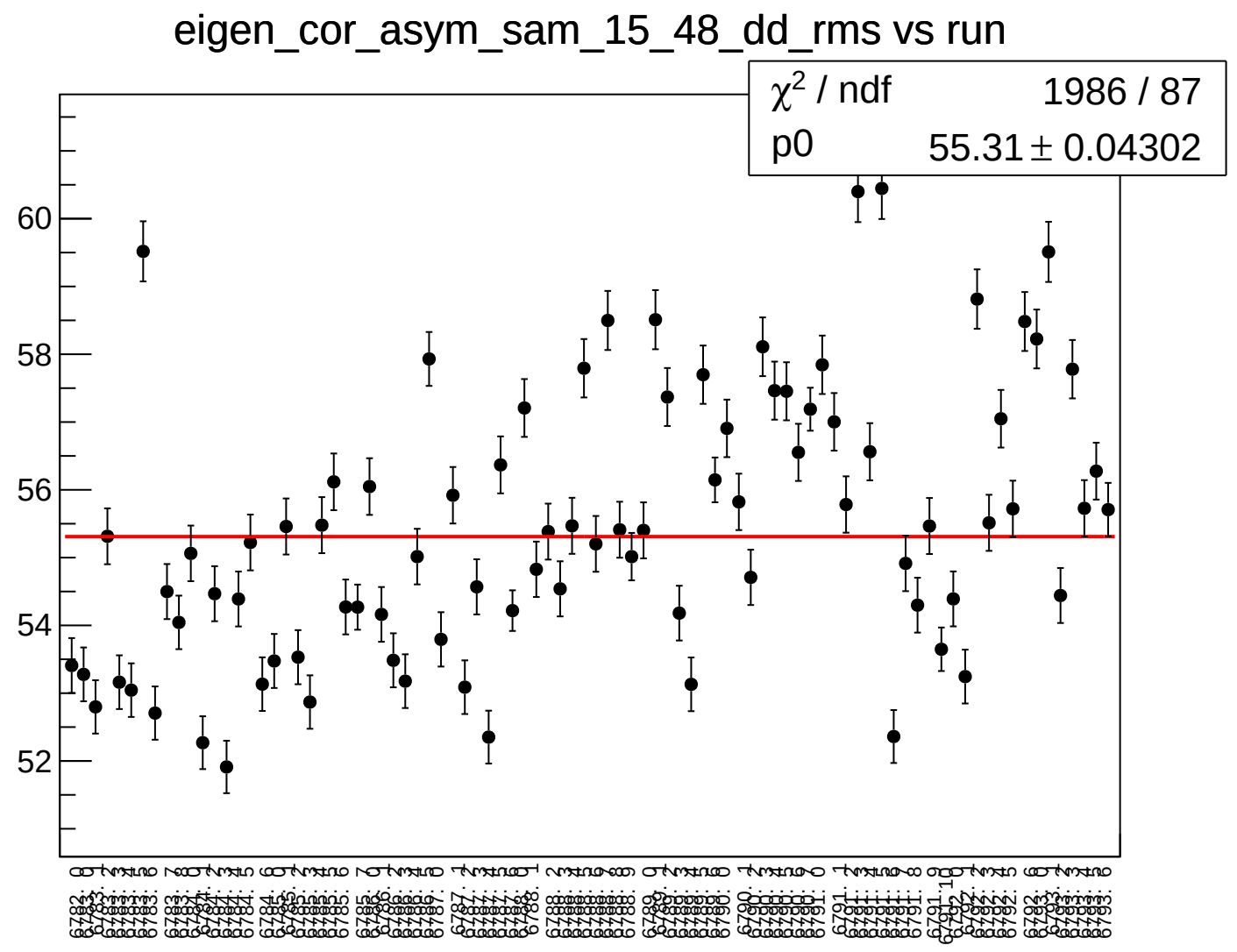

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1986 / 87
p0 55.31 ± 0.04302
60
58
56
54
52

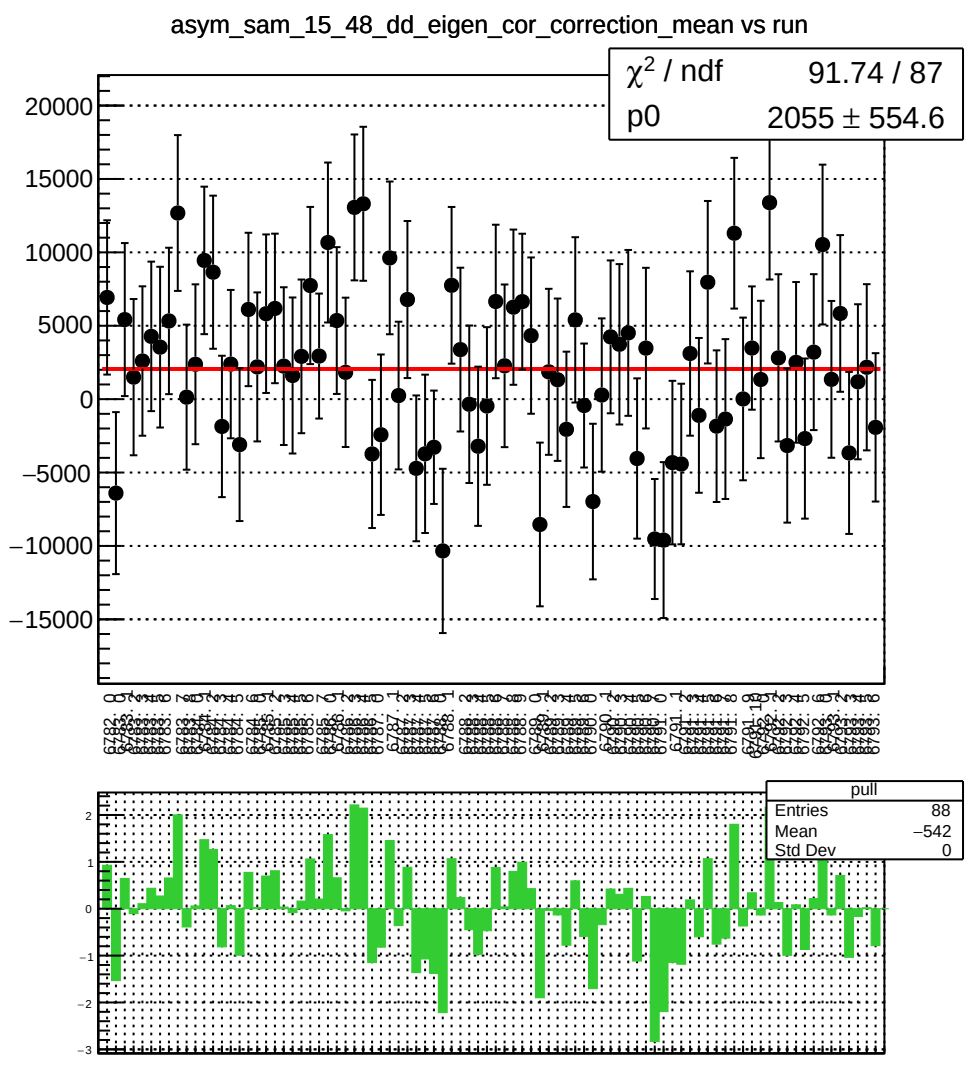

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 91.74 / 87
p0 2055 ± 554.6
pull
Entries 88
Mean −542
Std Dev 0

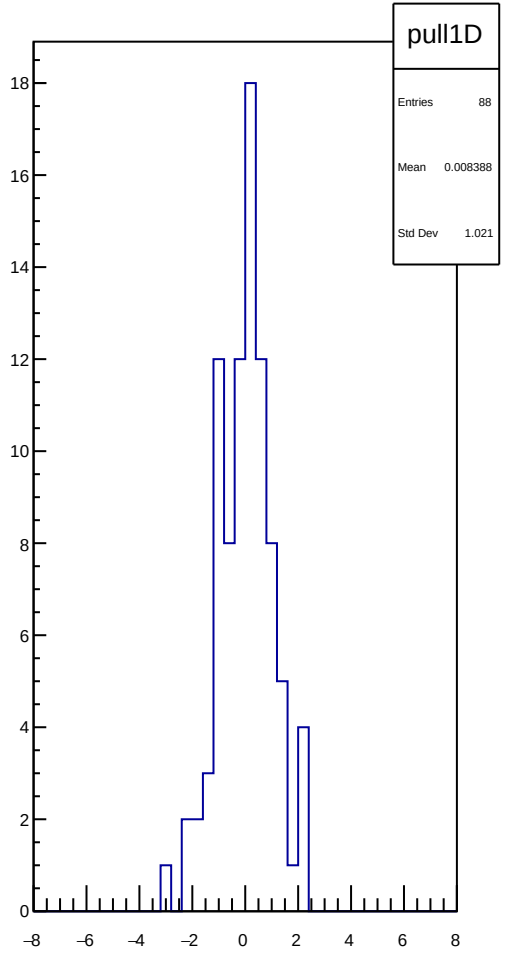

pull1D
Entries 88
Mean 0.008388
Std Dev 1.021

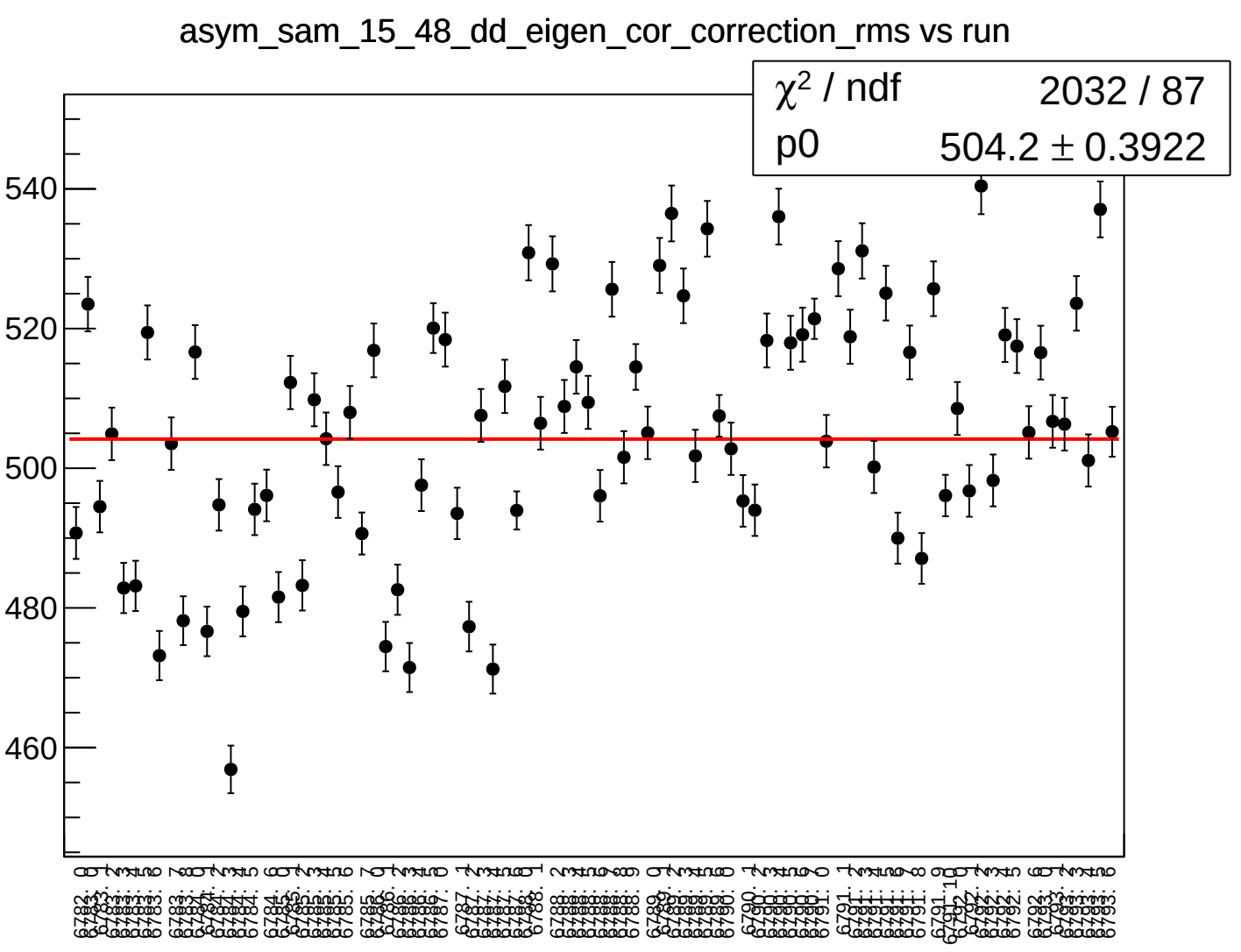

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2032 / 87
p0 504.2 ± 0.3922
540
520
500
480
460

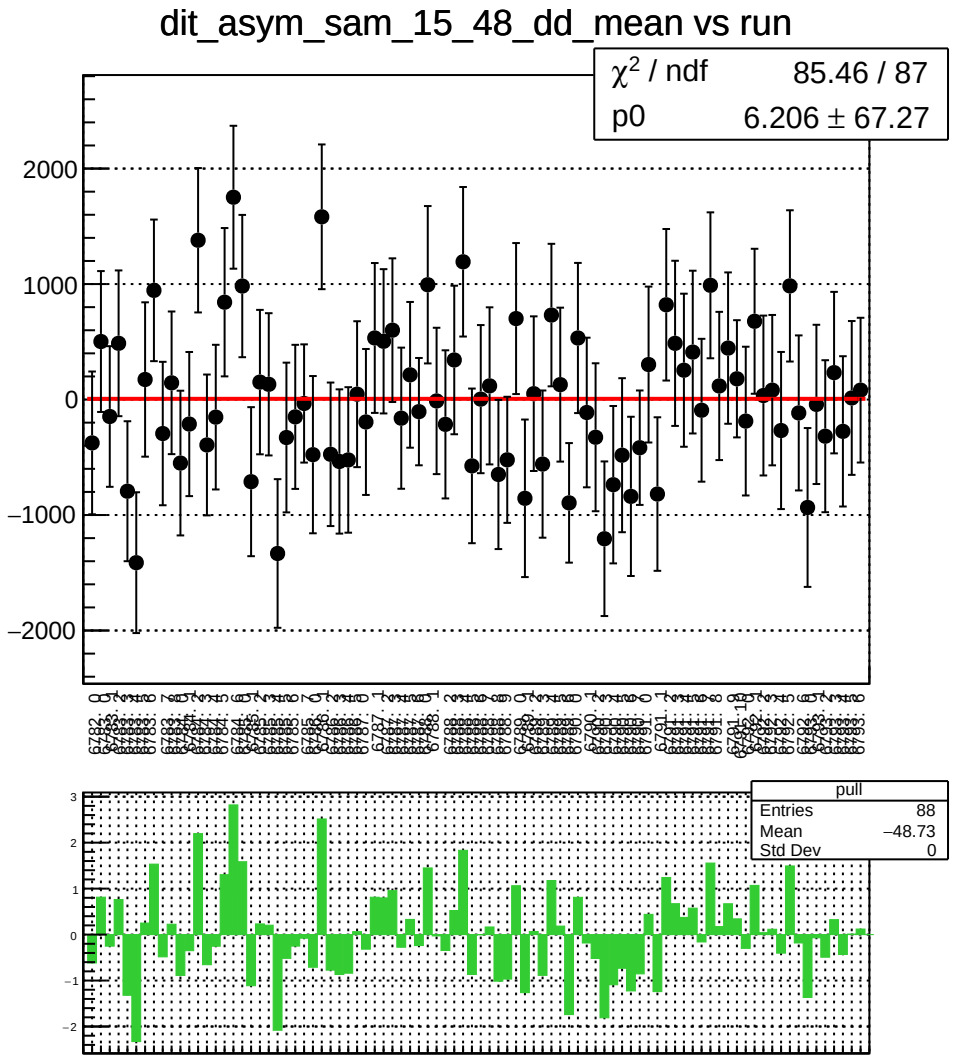

eigen_cor_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 85.76 / 87
p0 7.067 ± 60.84
pull
Entries 88
Mean 407.9
Std Dev 0
pull1D
Entries 88
Mean 0.006943
Std Dev 0.9871

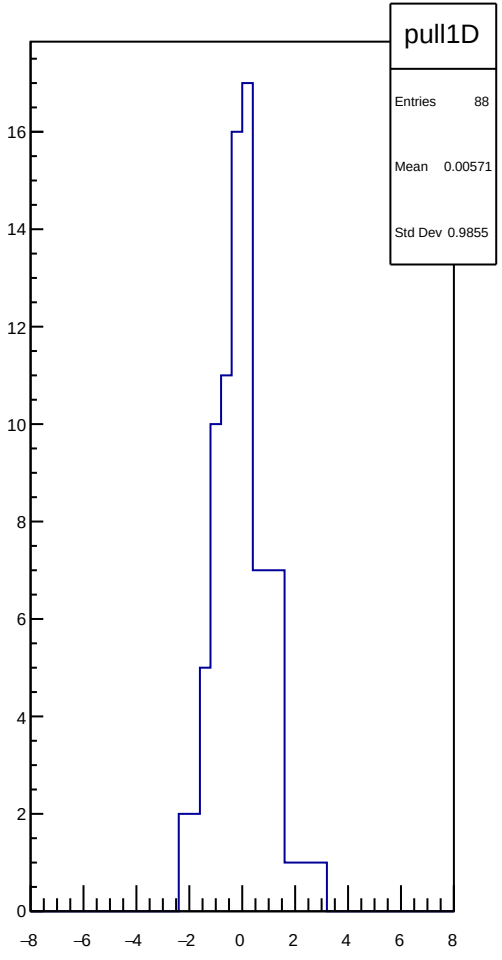

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1986 / 87
p0 55.31 ± 0.04302
60
58
56
54
52

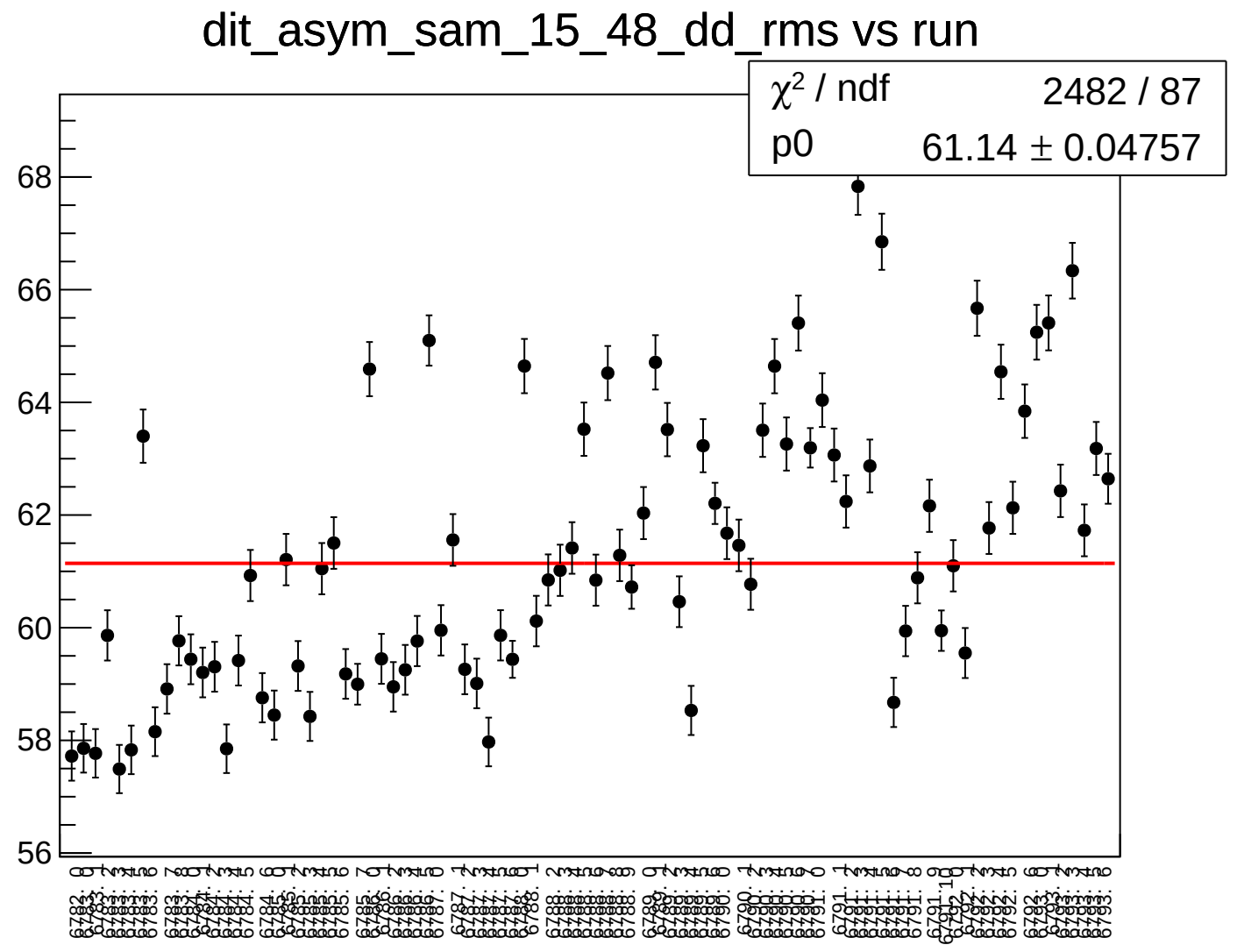

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.74 / 87
p0 2055 ± 554.6
pull
Entries 88
Mean −542
Std Dev 0

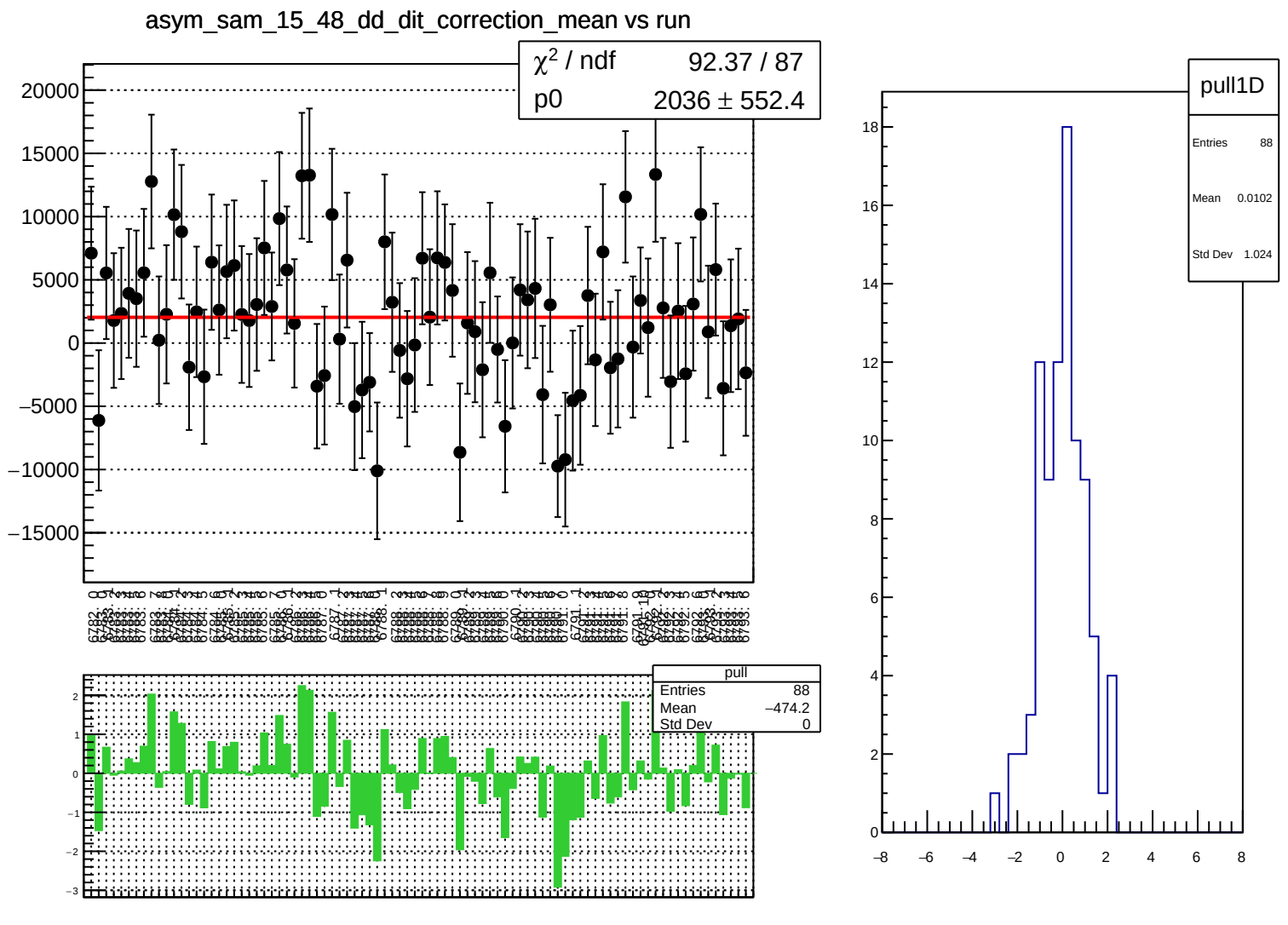

pull1D
Entries 88
Mean 0.008388
Std Dev 1.021

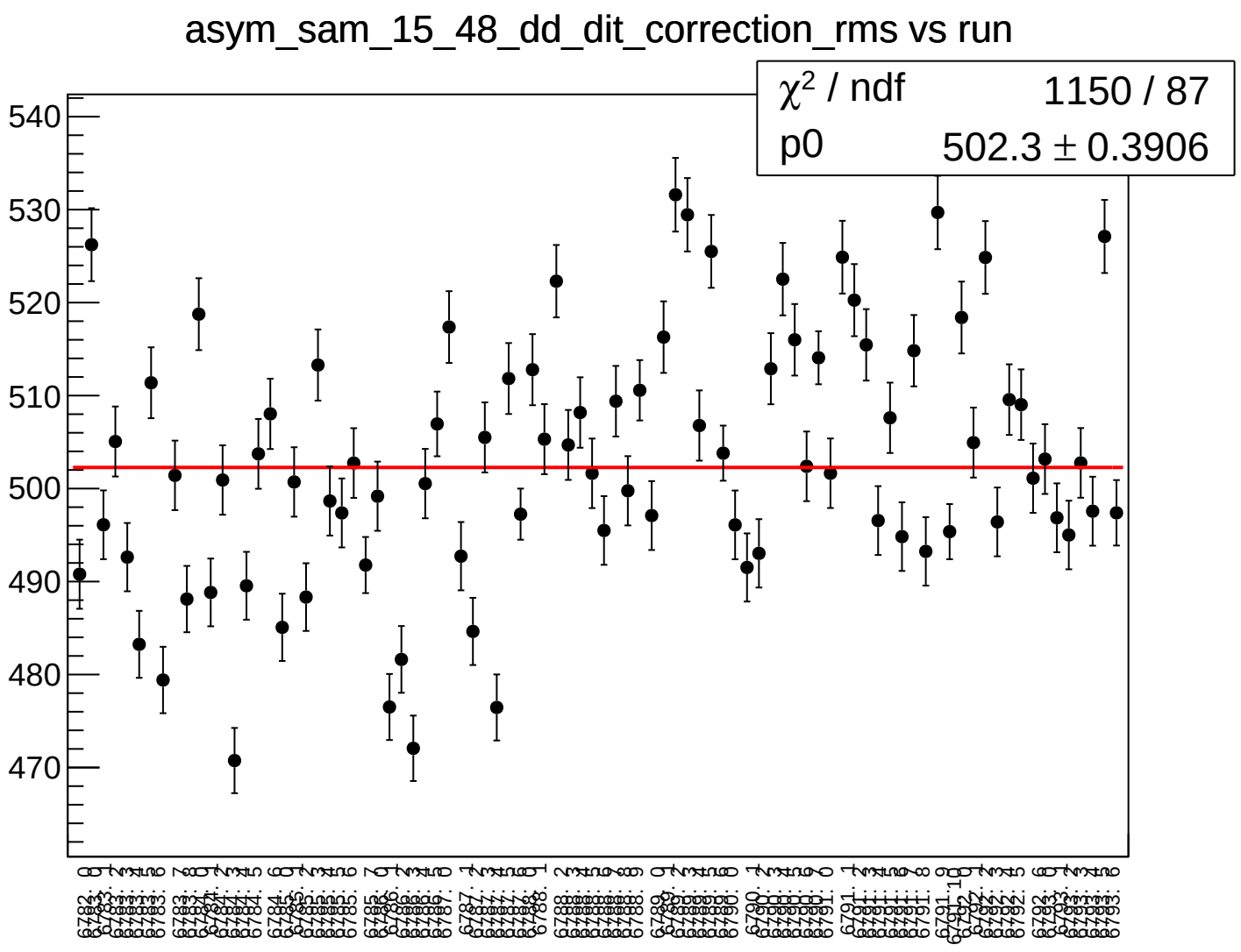

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2032 / 87
p0 504.2 ± 0.3922
540
520
500
480
460

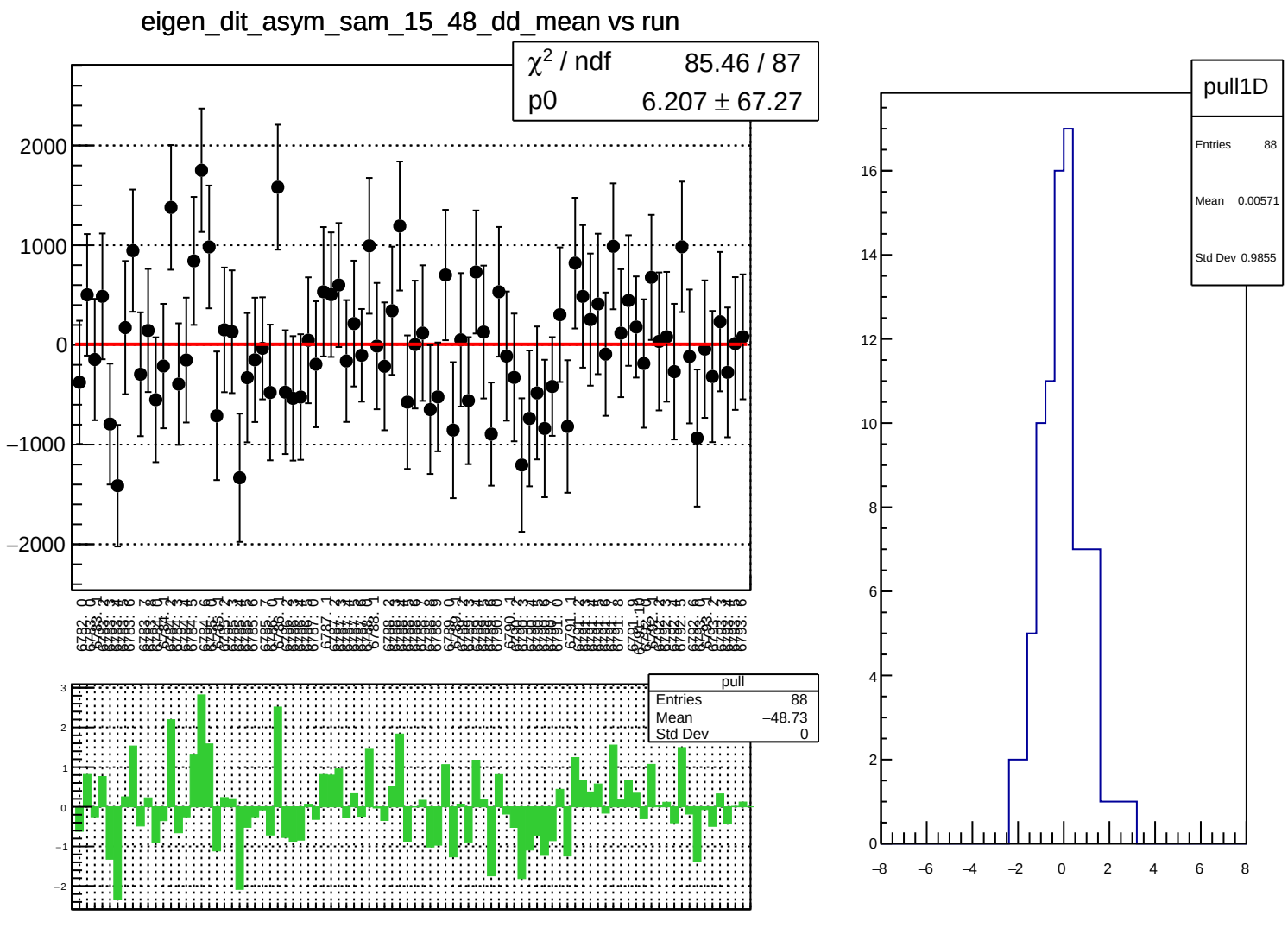

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.46 / 87
p0 6.206 ± 67.27
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −48.73
Std Dev 0
3
2
1
0
−1
−2

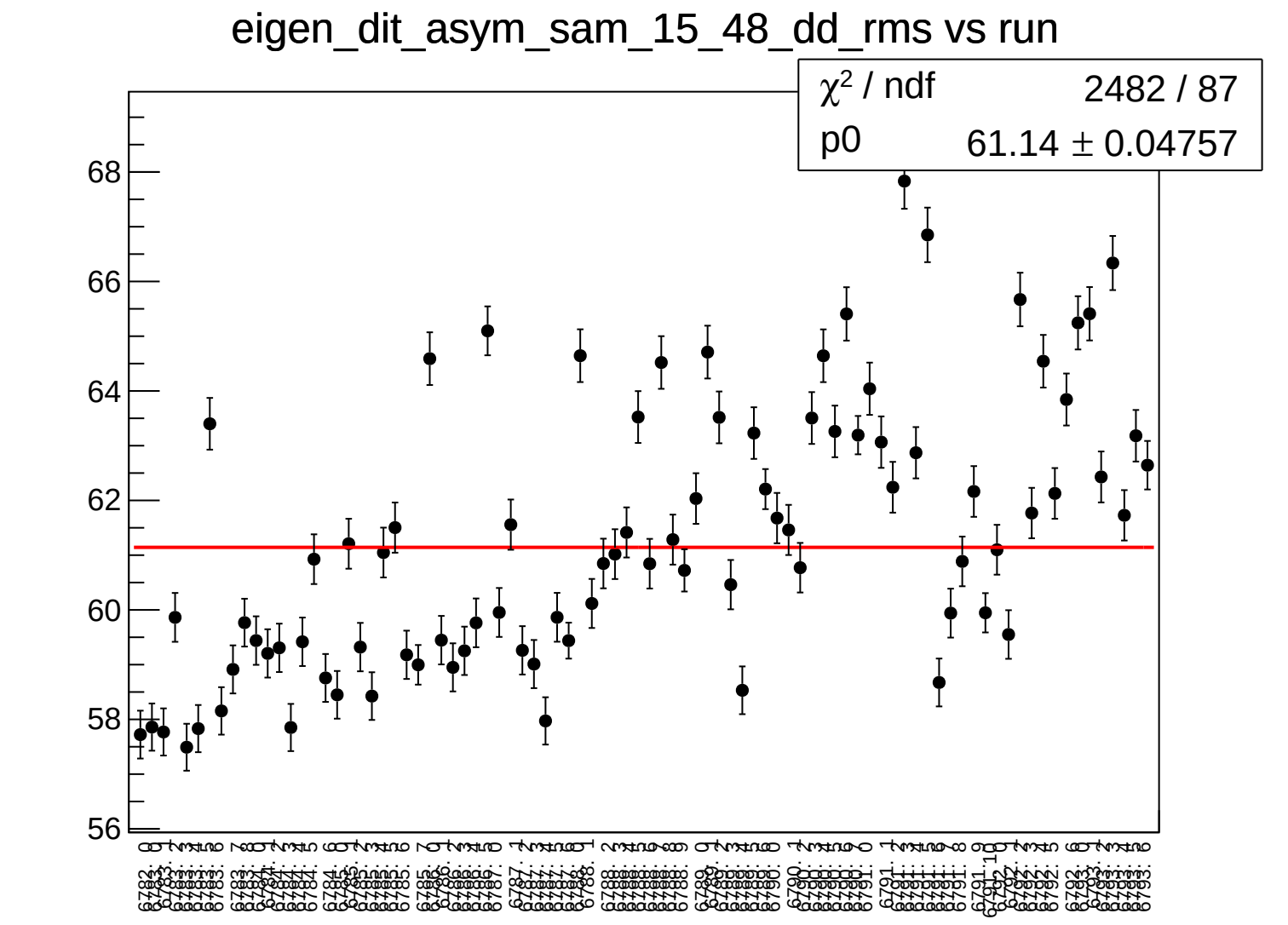

pull1D
Entries 88
Mean 0.00571
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

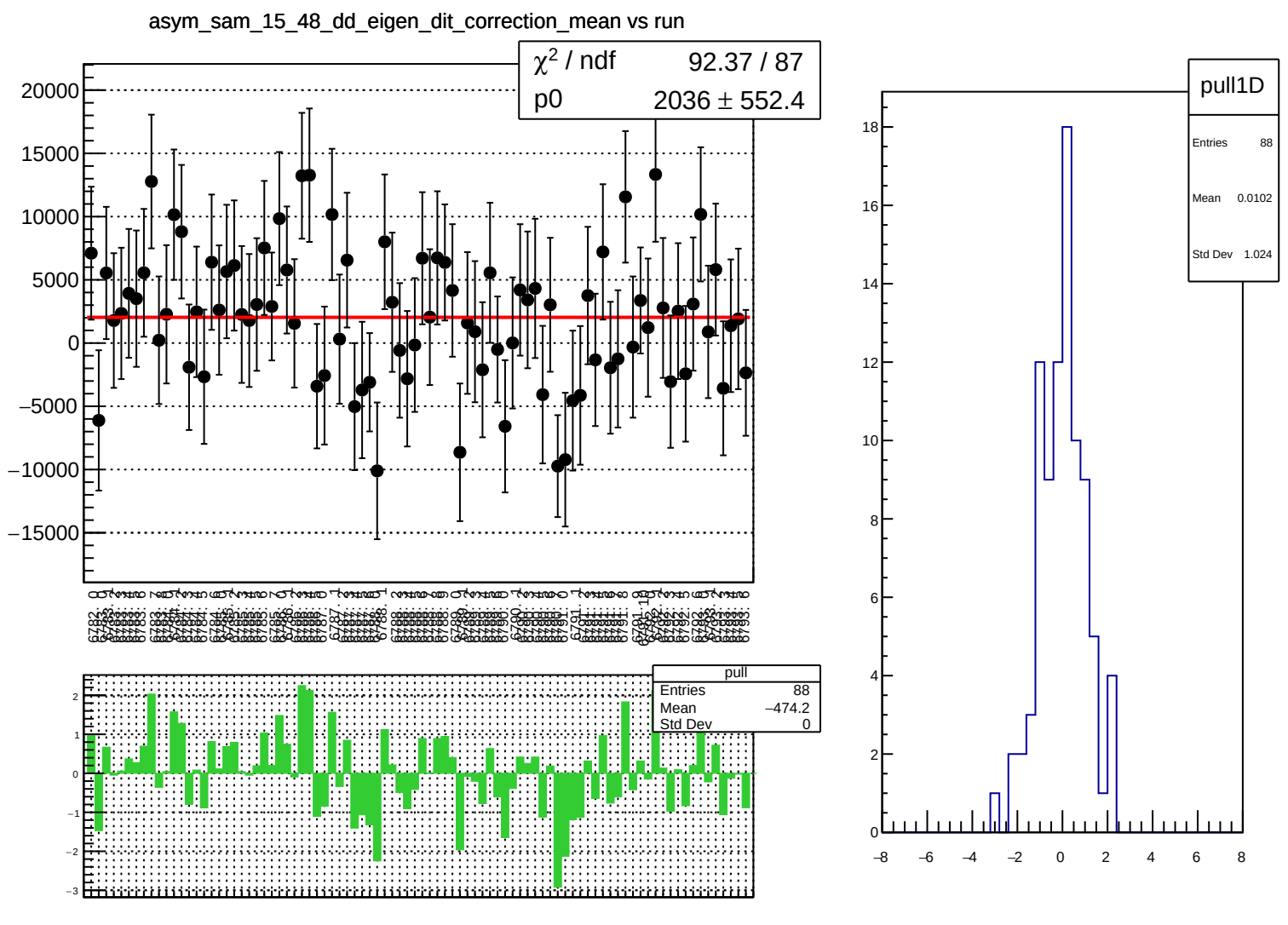

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2482 / 87
p0 61.14 ± 0.04757
68
66
64
62
60
58
56

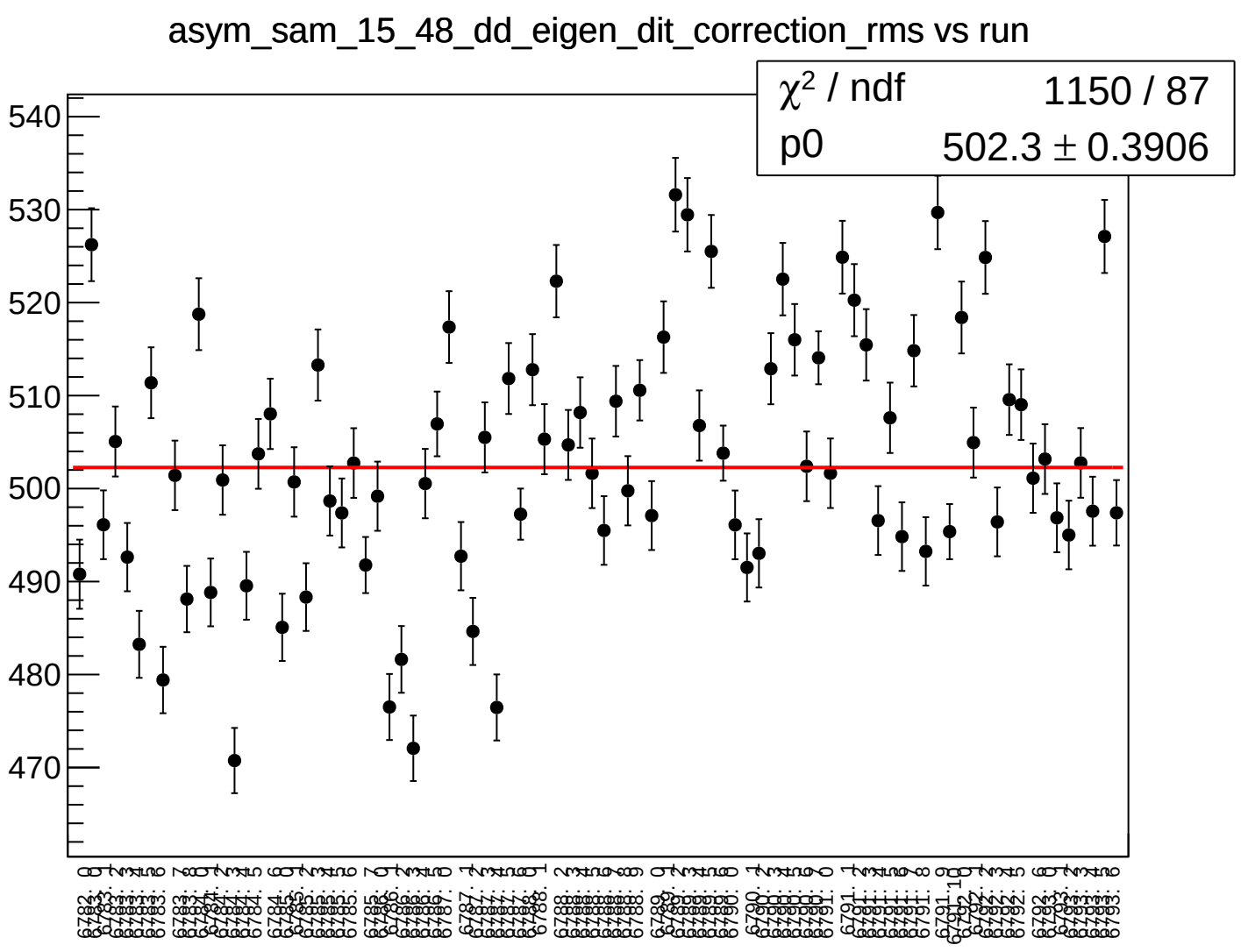

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 92.37 / 87
p0 2036 ± 552.4
pull
Entries 88
Mean −474.2
Std Dev 0
pull1D
Entries 88
Mean 0.0102
Std Dev 1.024

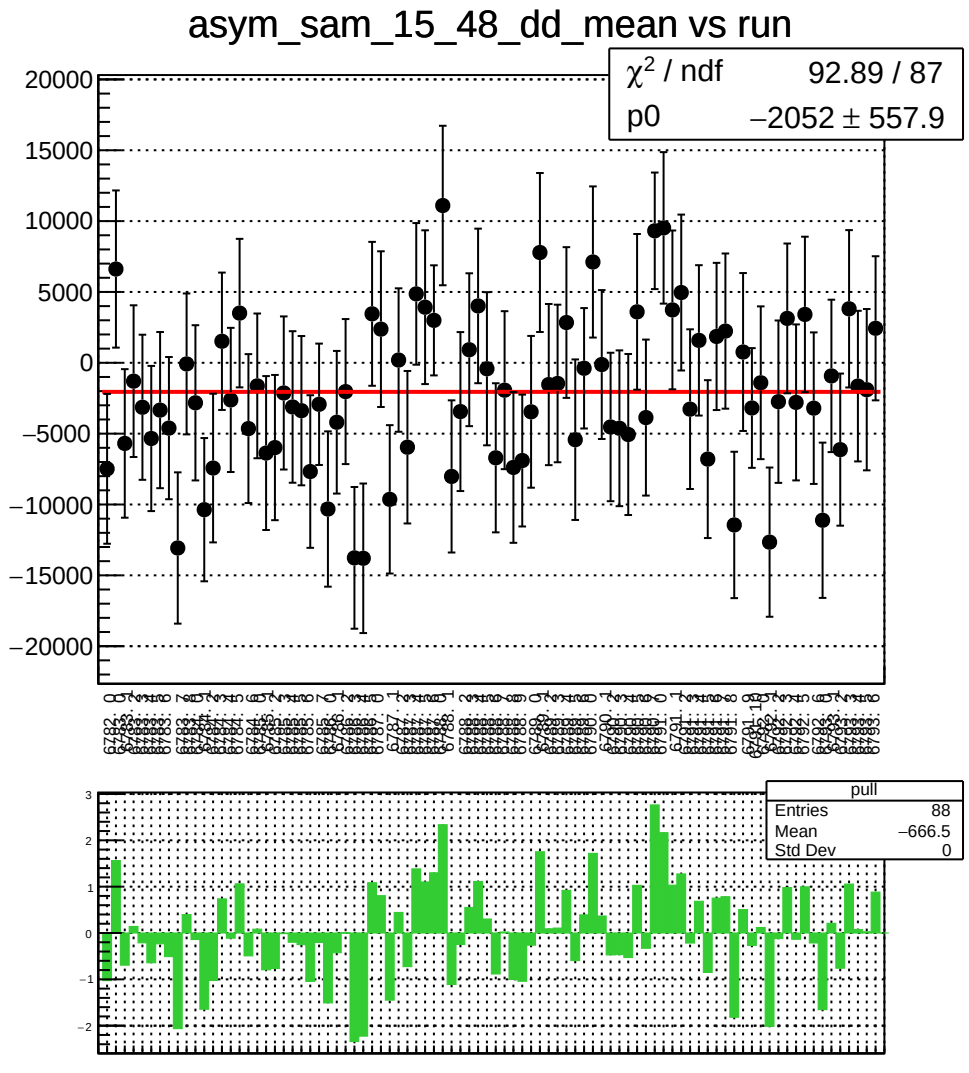

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1150 / 87
p0 502.3 ± 0.3906
540
530
520
510
500
490
480
470

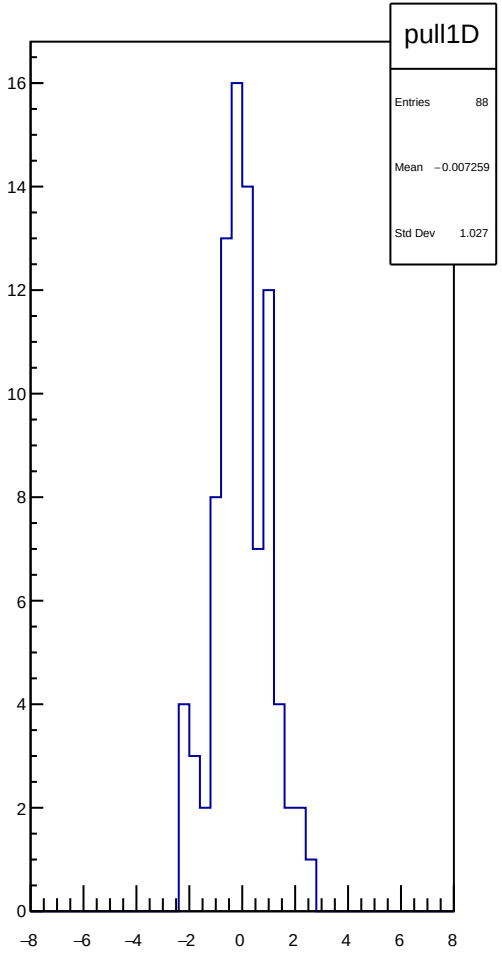

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.46 / 87
p0 6.207 ± 67.27
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −48.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.00571
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

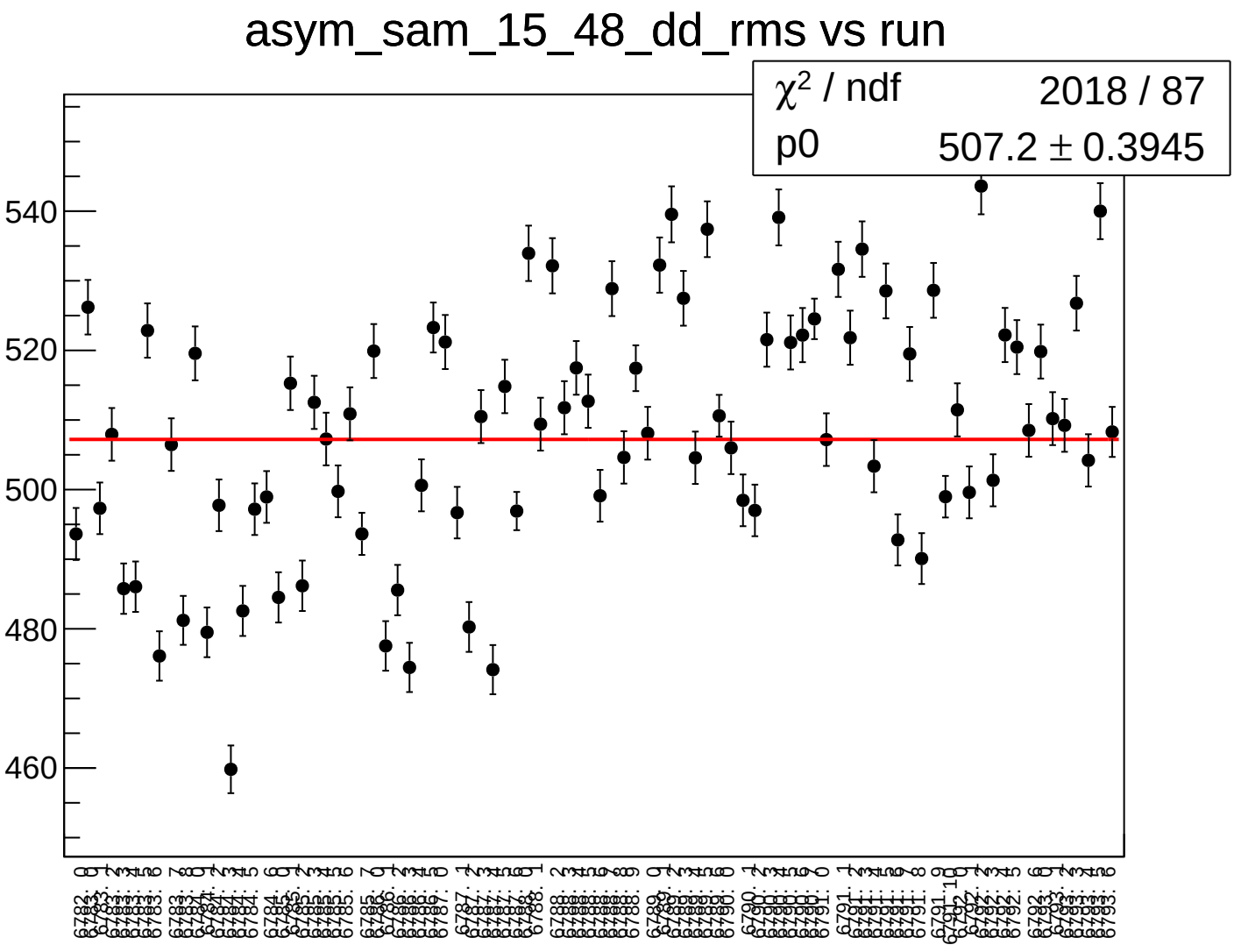

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2482 / 87
p0 61.14 ± 0.04757
68
66
64
62
60
58
56

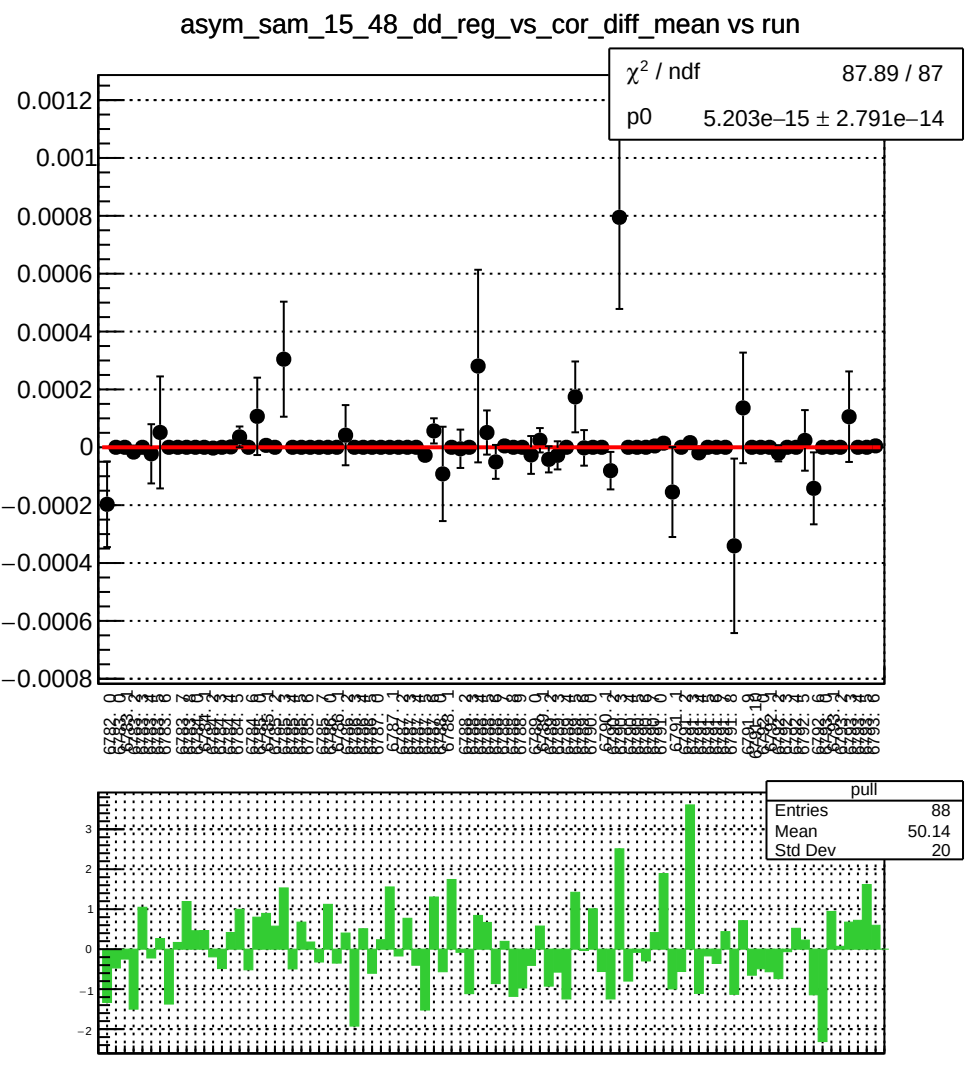

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.37 / 87
p0 2036 ± 552.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −474.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0102
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

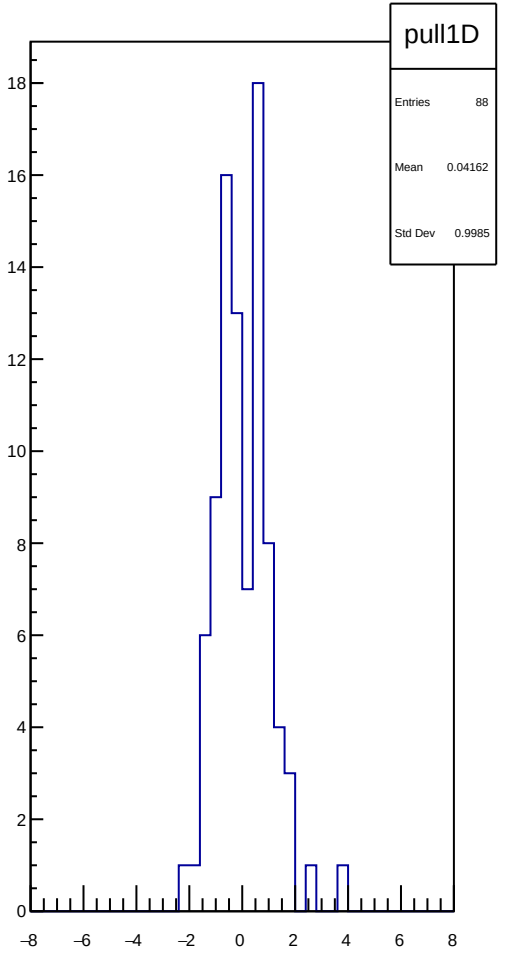

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1150 / 87
p0 502.3 ± 0.3906
540
530
520
510
500
490
480
470

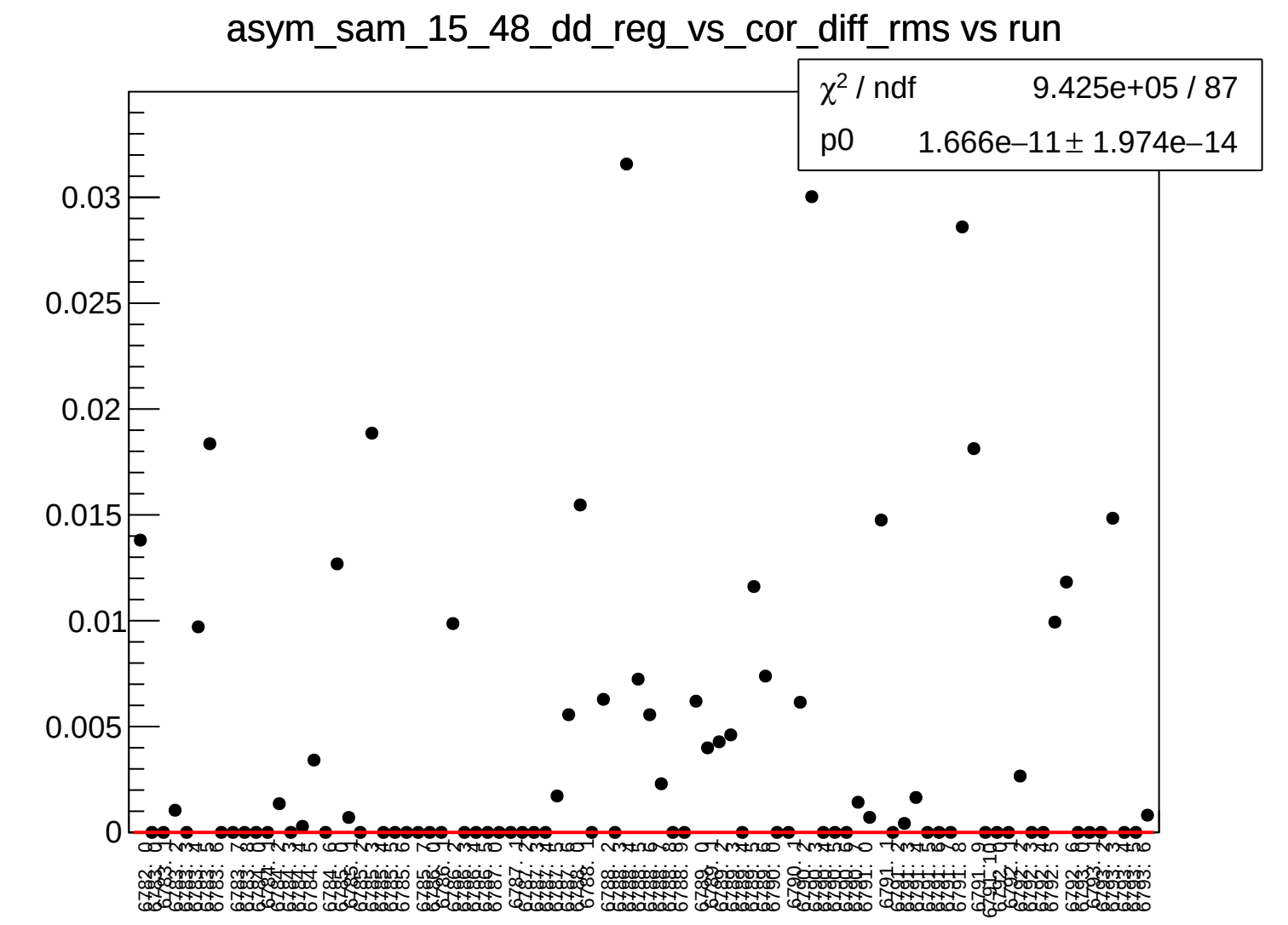

asym_sam_15_48_dd_mean vs run
χ² / ndf 92.89 / 87
p0 −2052 ± 557.9
pull
Entries 88
Mean −666.5
Std Dev 0

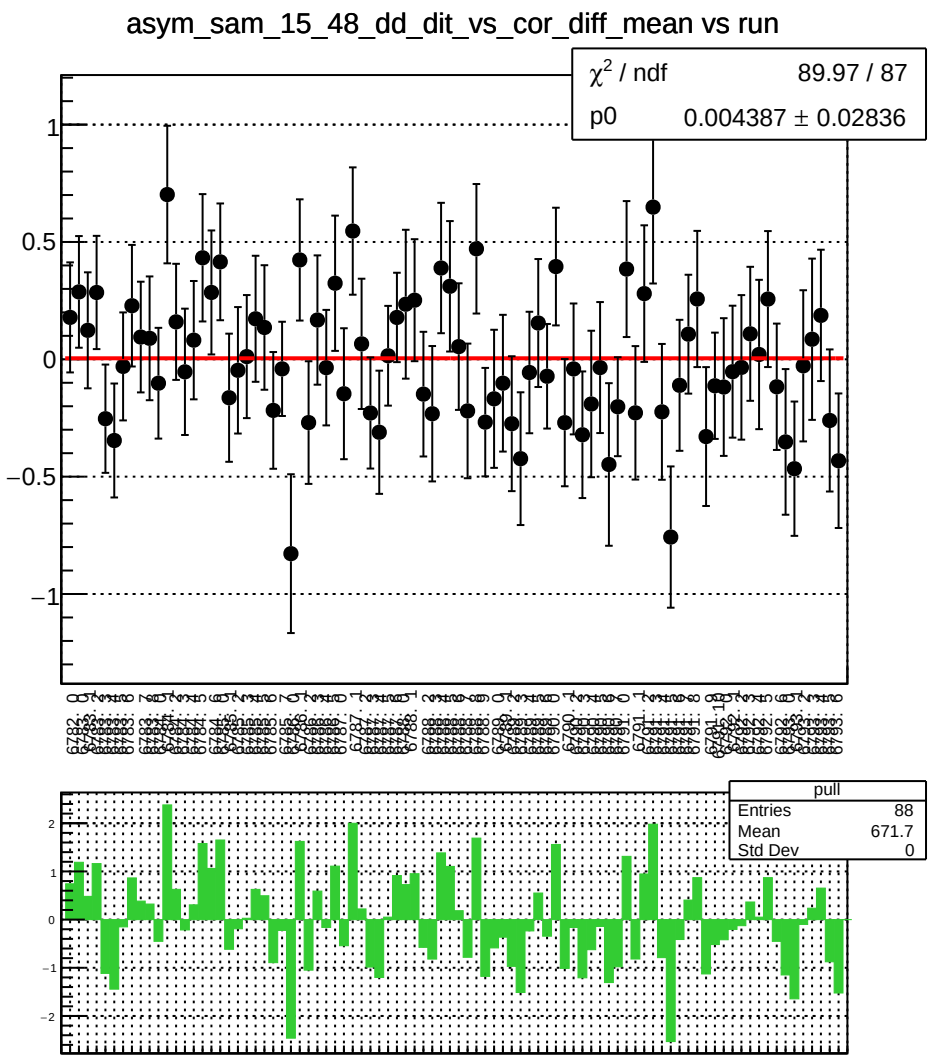

pull1D
Entries 88
Mean −0.007259
Std Dev 1.027

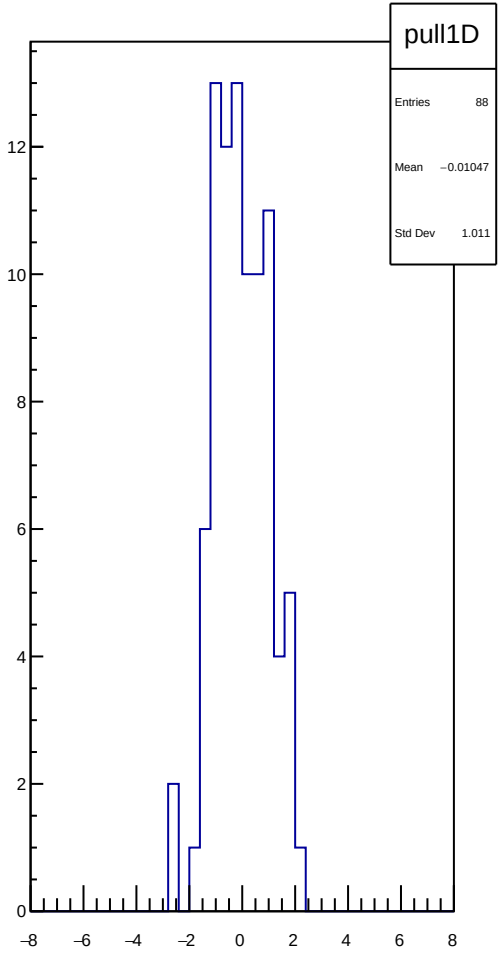

asym_sam_15_48_dd_rms vs run
χ² / ndf 2018 / 87
p0 507.2 ± 0.3945
540
520
500
480
460

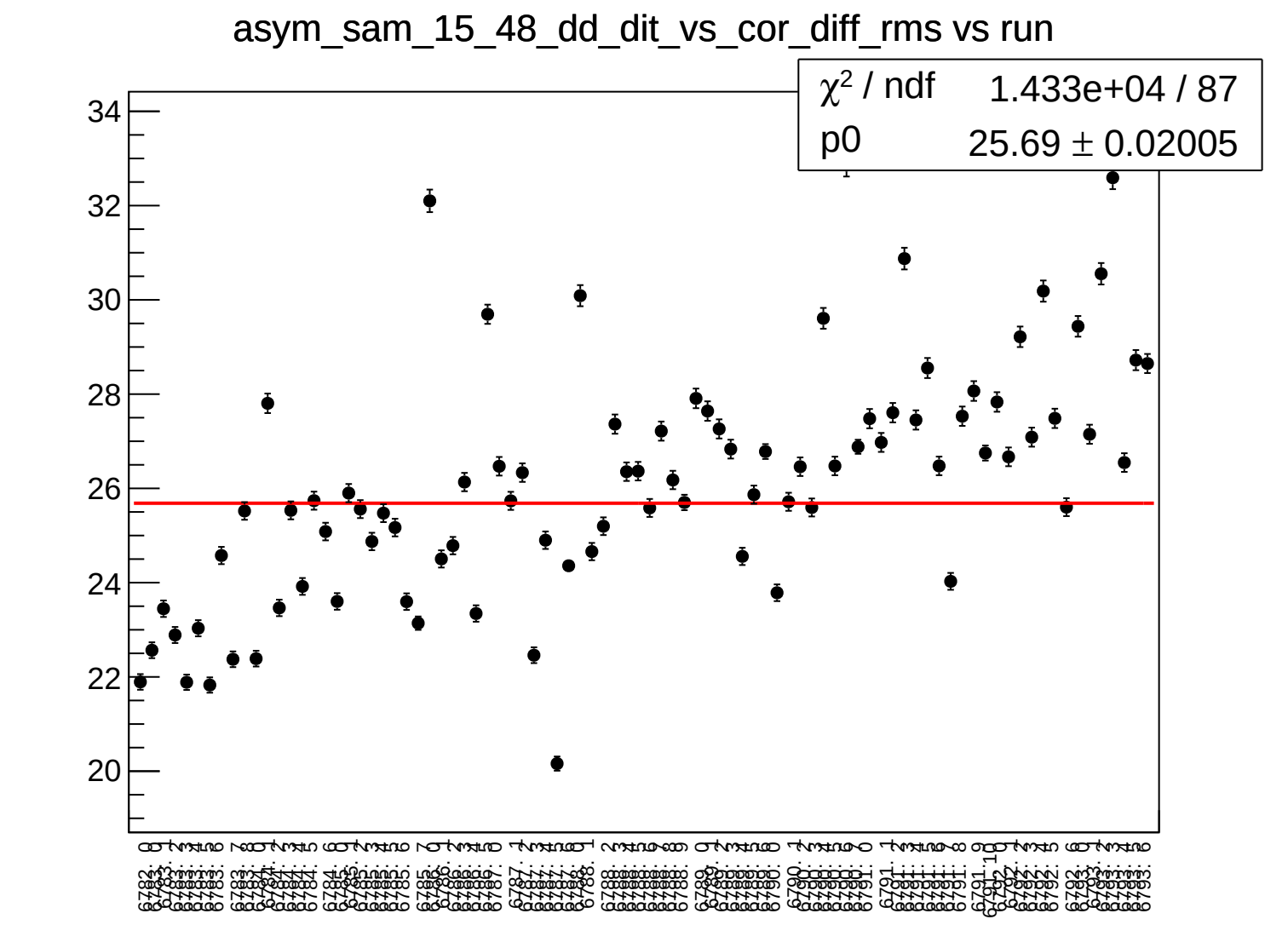

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 87
p0 5.203e−15 ± 2.791e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 88
Mean 50.14
Std Dev 20
3
2
1
0
−1
−2

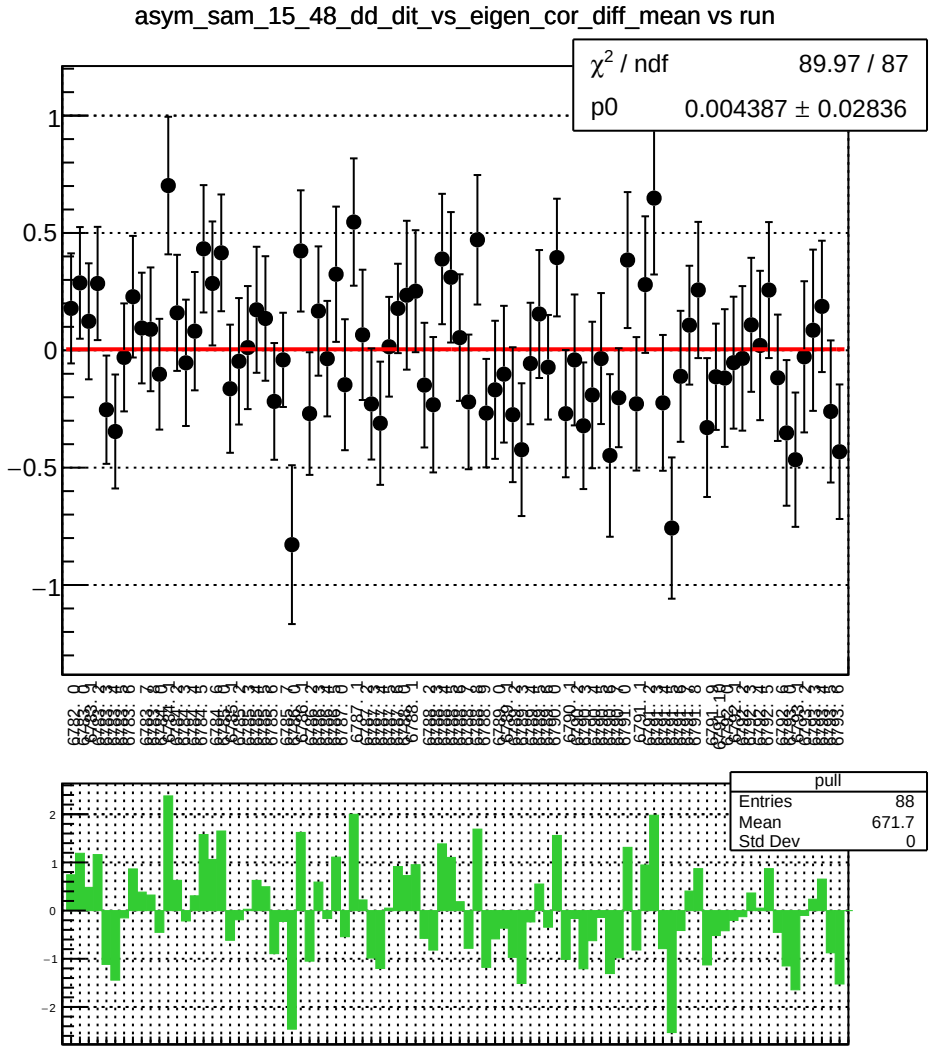

pull1D
Entries 88
Mean 0.04162
Std Dev 0.9985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

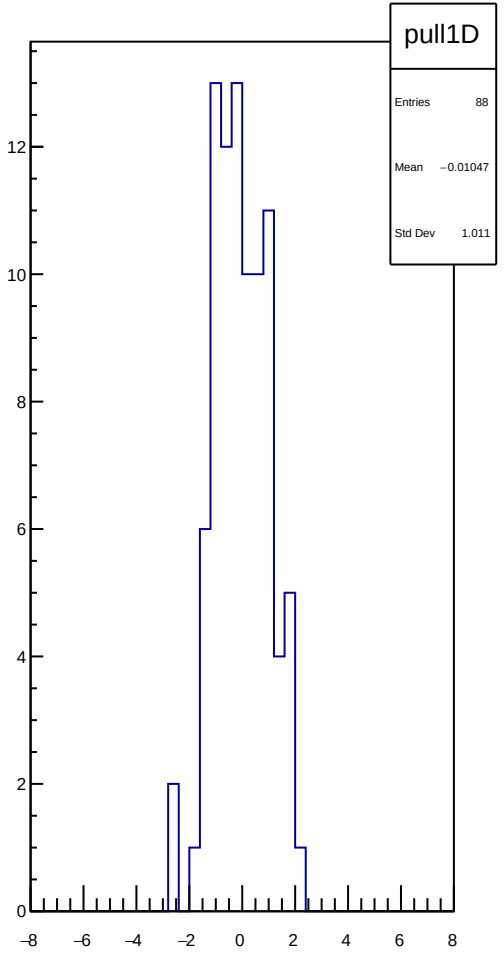

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.425e+05 / 87
p0 1.666e−11 ± 1.974e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

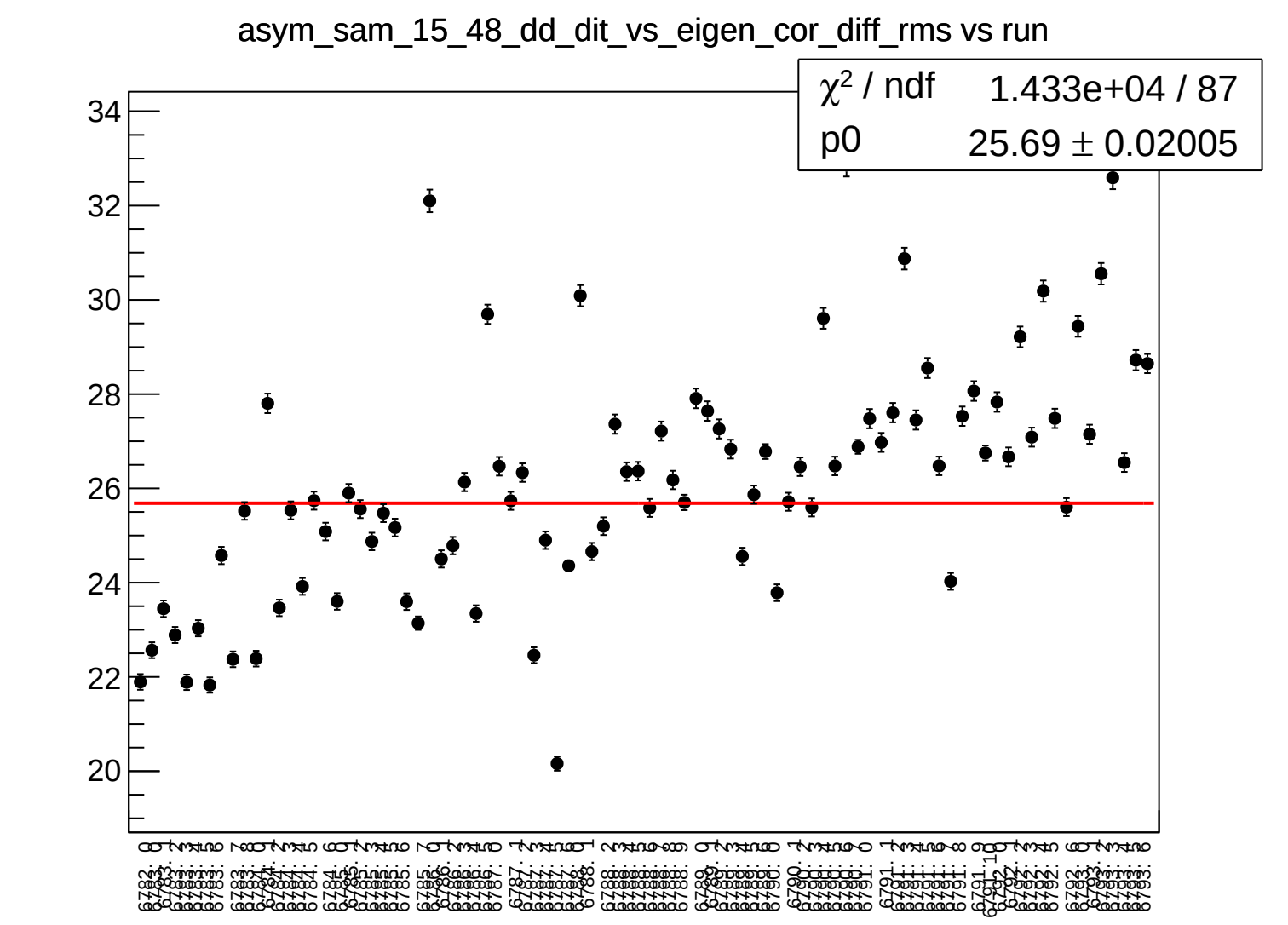

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.004387 ± 0.02836
pull
Entries 88
Mean 671.7
Std Dev 0

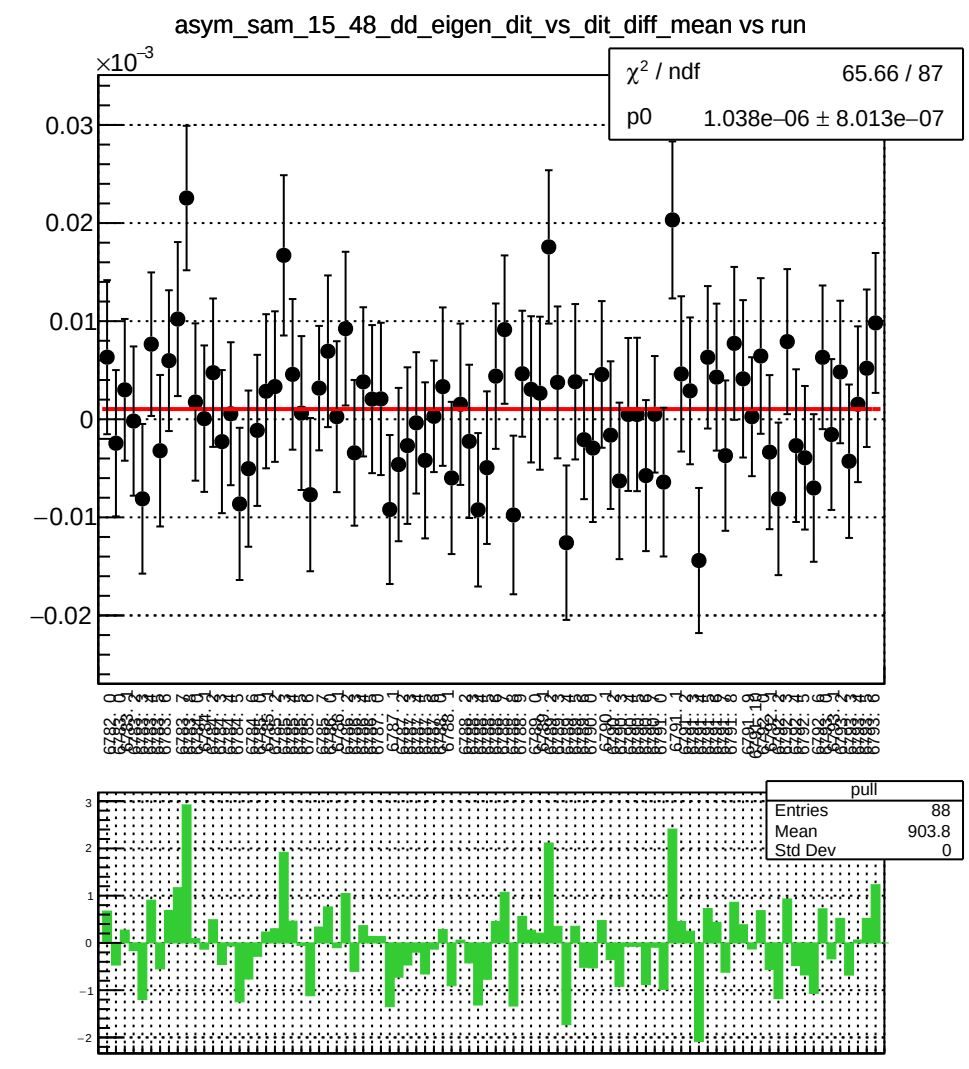

pull1D
Entries 88
Mean −0.01047
Std Dev 1.011

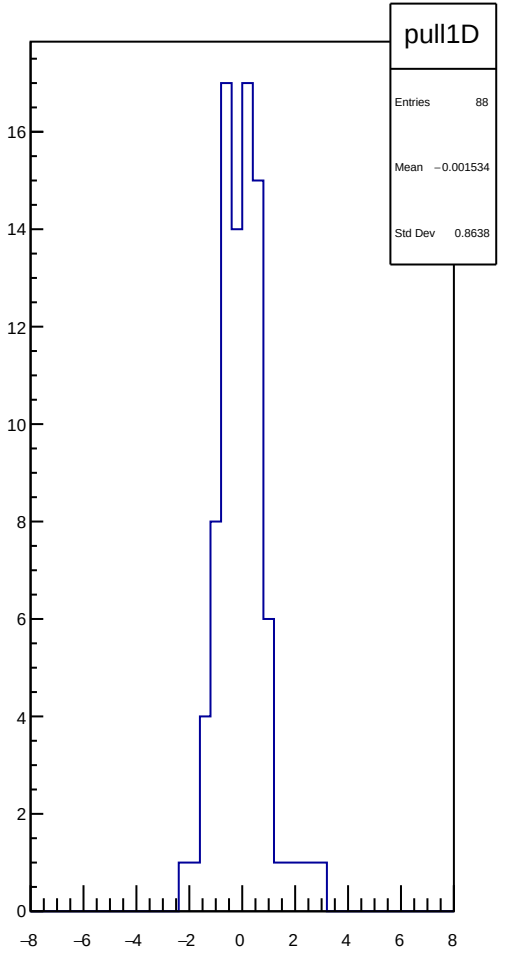

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.433e+04 / 87
p0 25.69 ± 0.02005
34
32
30
28
26
24
22
20

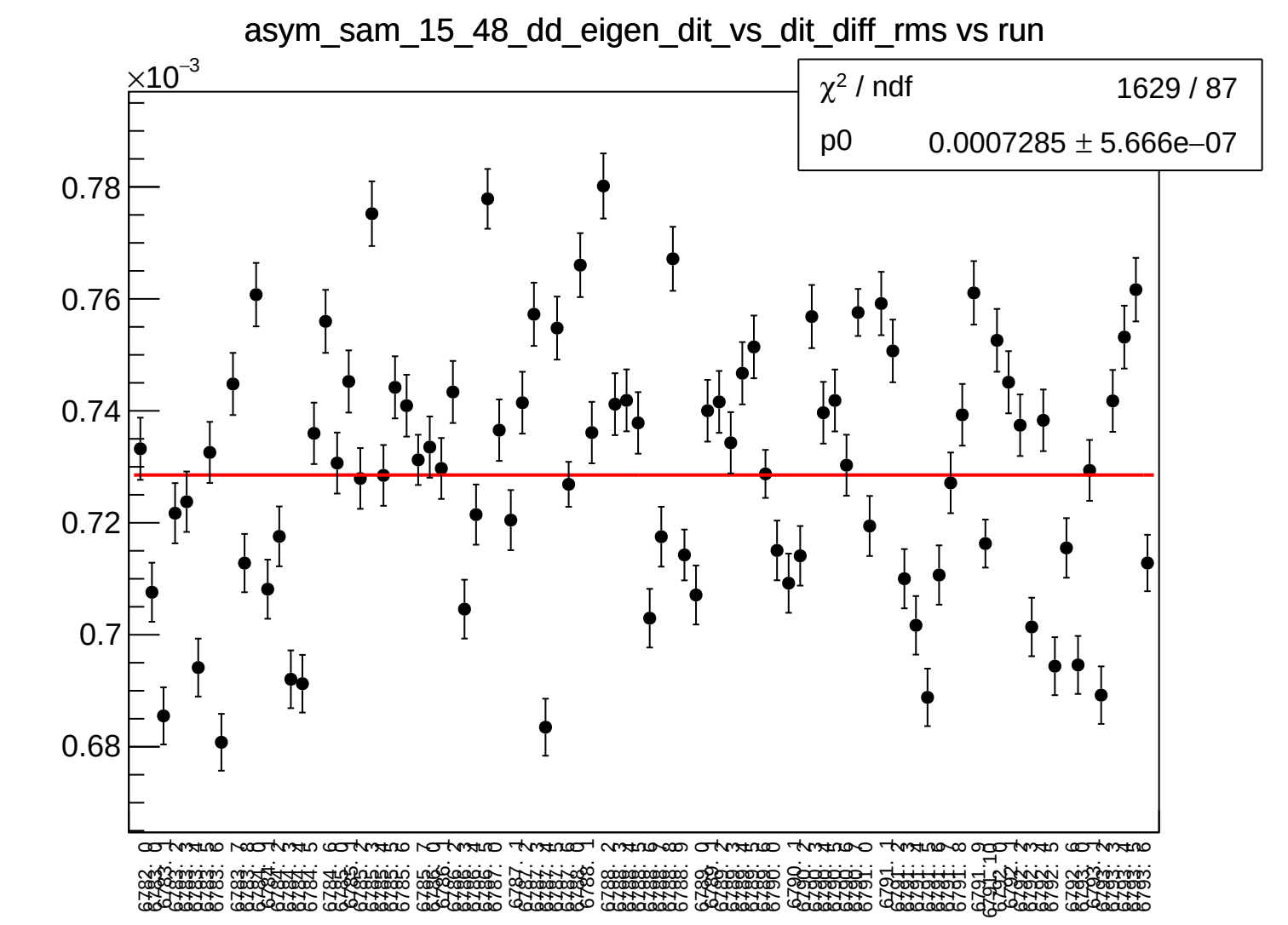

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.004387 ± 0.02836
pull
Entries 88
Mean 671.7
Std Dev 0

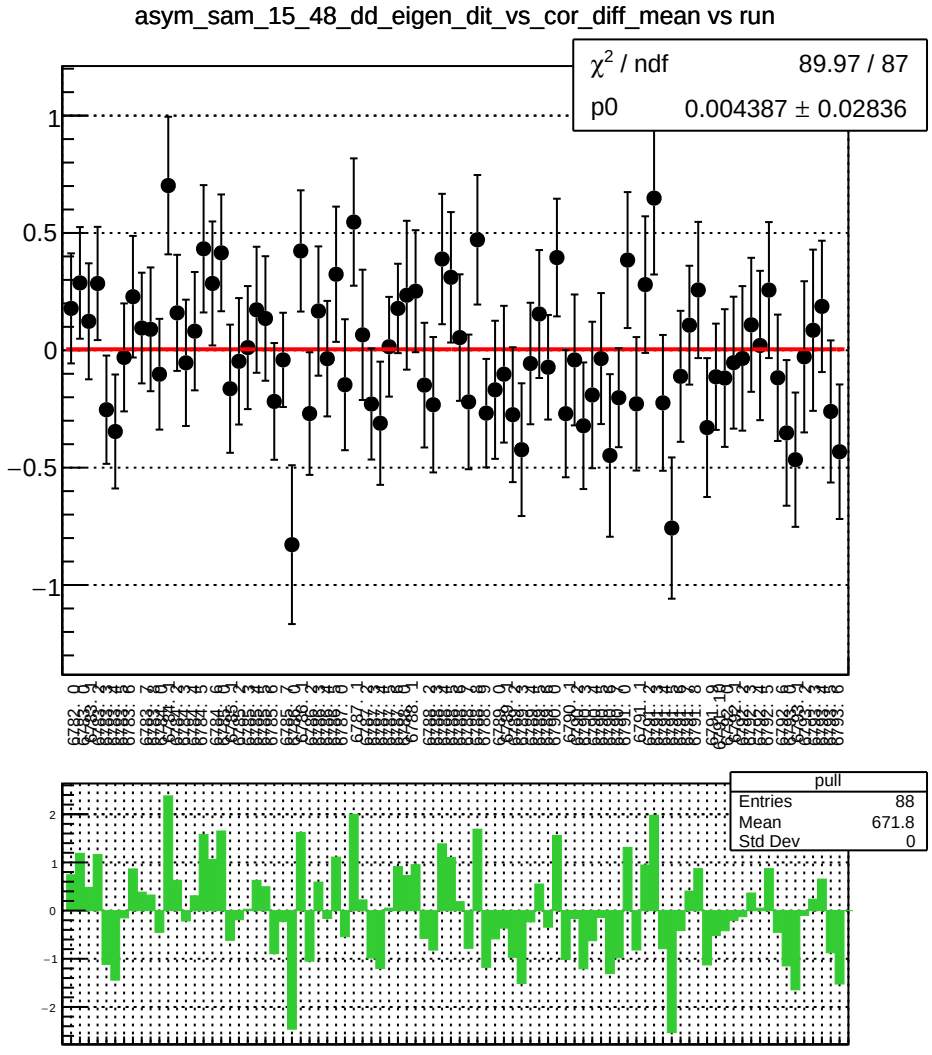

pull1D
Entries 88
Mean −0.01047
Std Dev 1.011

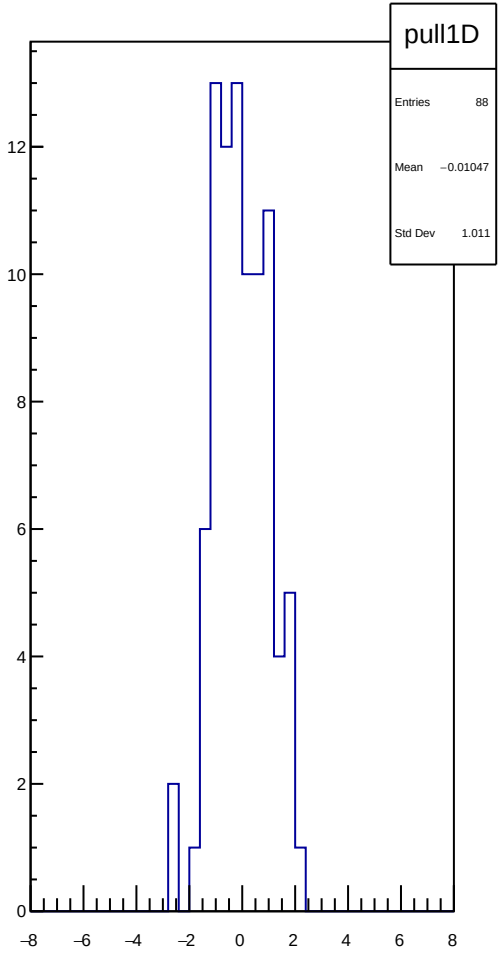

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.433e+04 / 87
p0 25.69 ± 0.02005
34
32
30
28
26
24
22
20

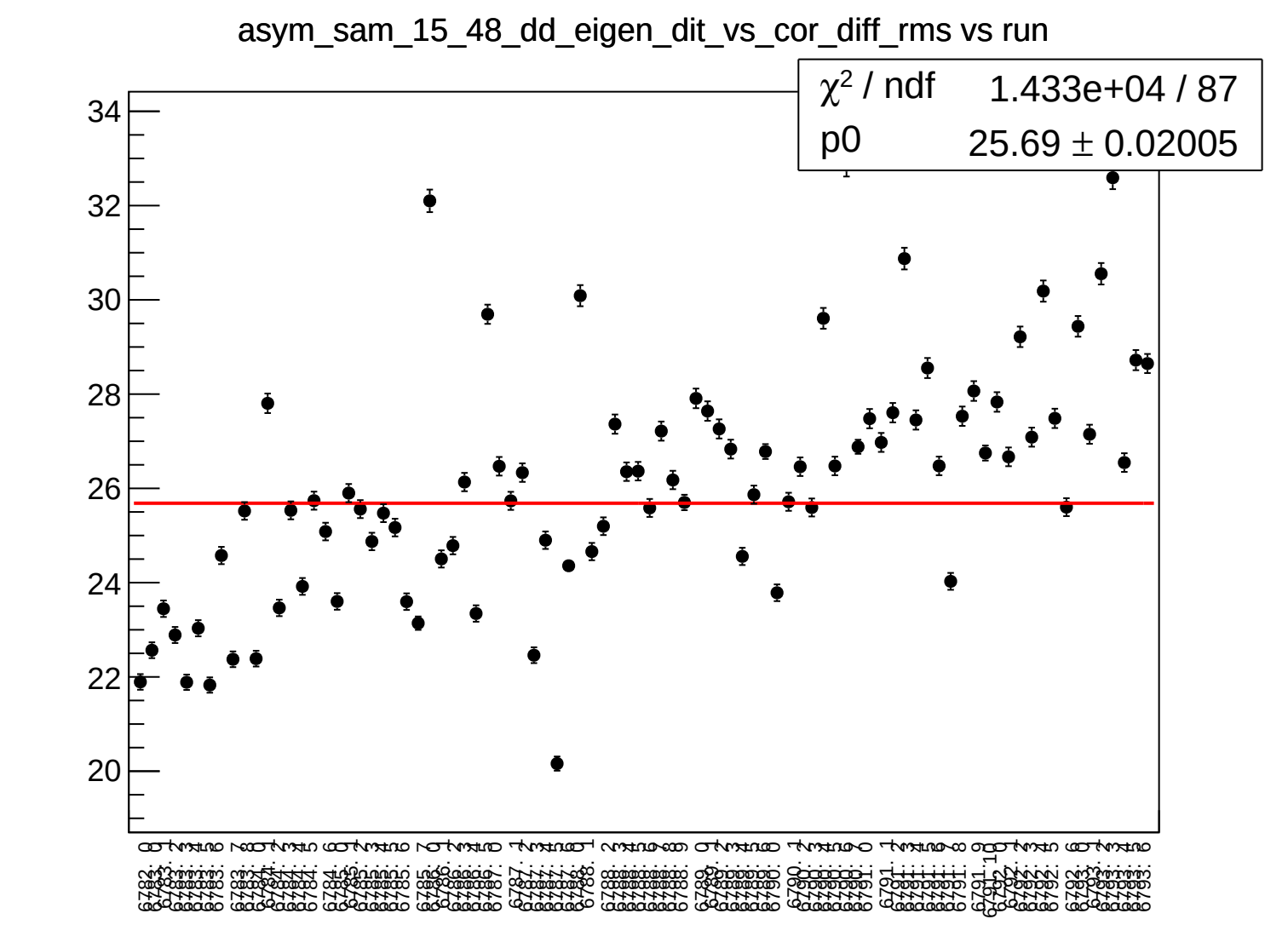

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 65.66 / 87
p0 1.038e−06 ± 8.013e−07
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 903.8
Std Dev 0
3
2
1
0
−1
−2

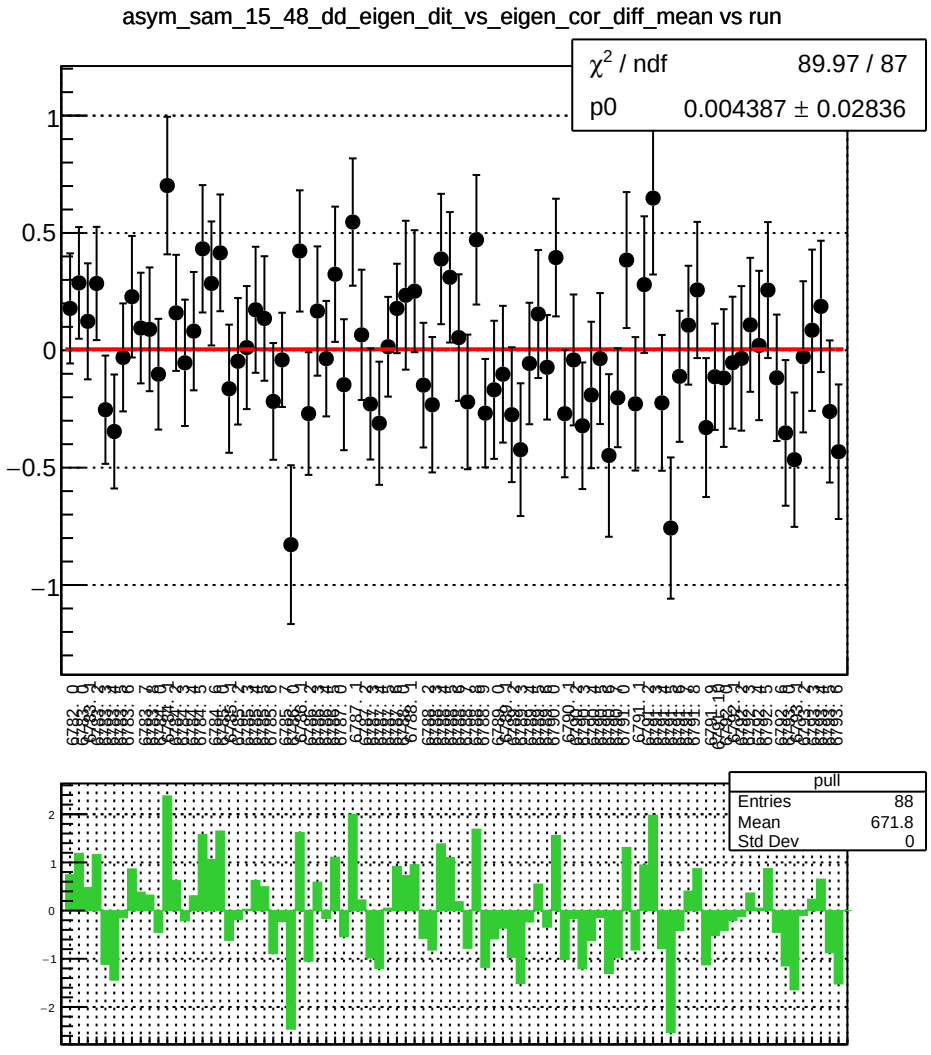

pull1D
Entries 88
Mean −0.001534
Std Dev 0.8638
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

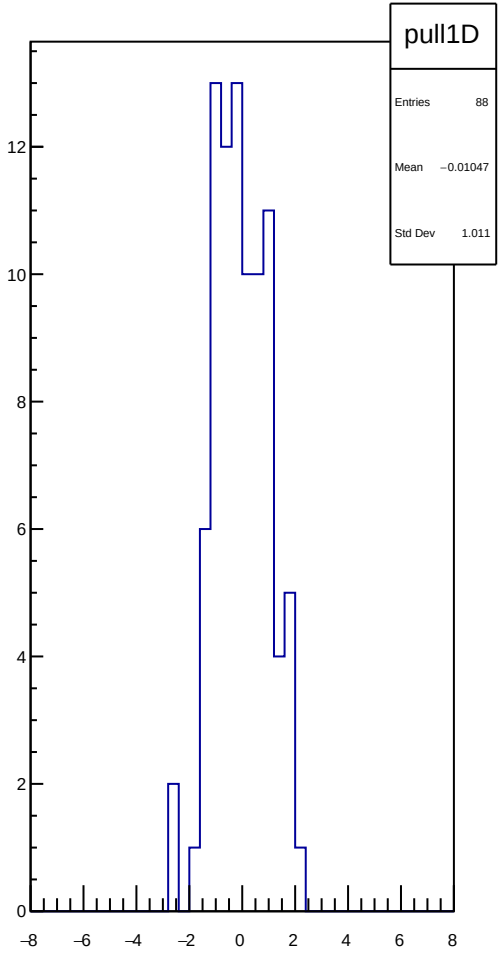

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1629 / 87
p0 0.0007285 ± 5.666e−07
0.78
0.76
0.74
0.72
0.7
0.68

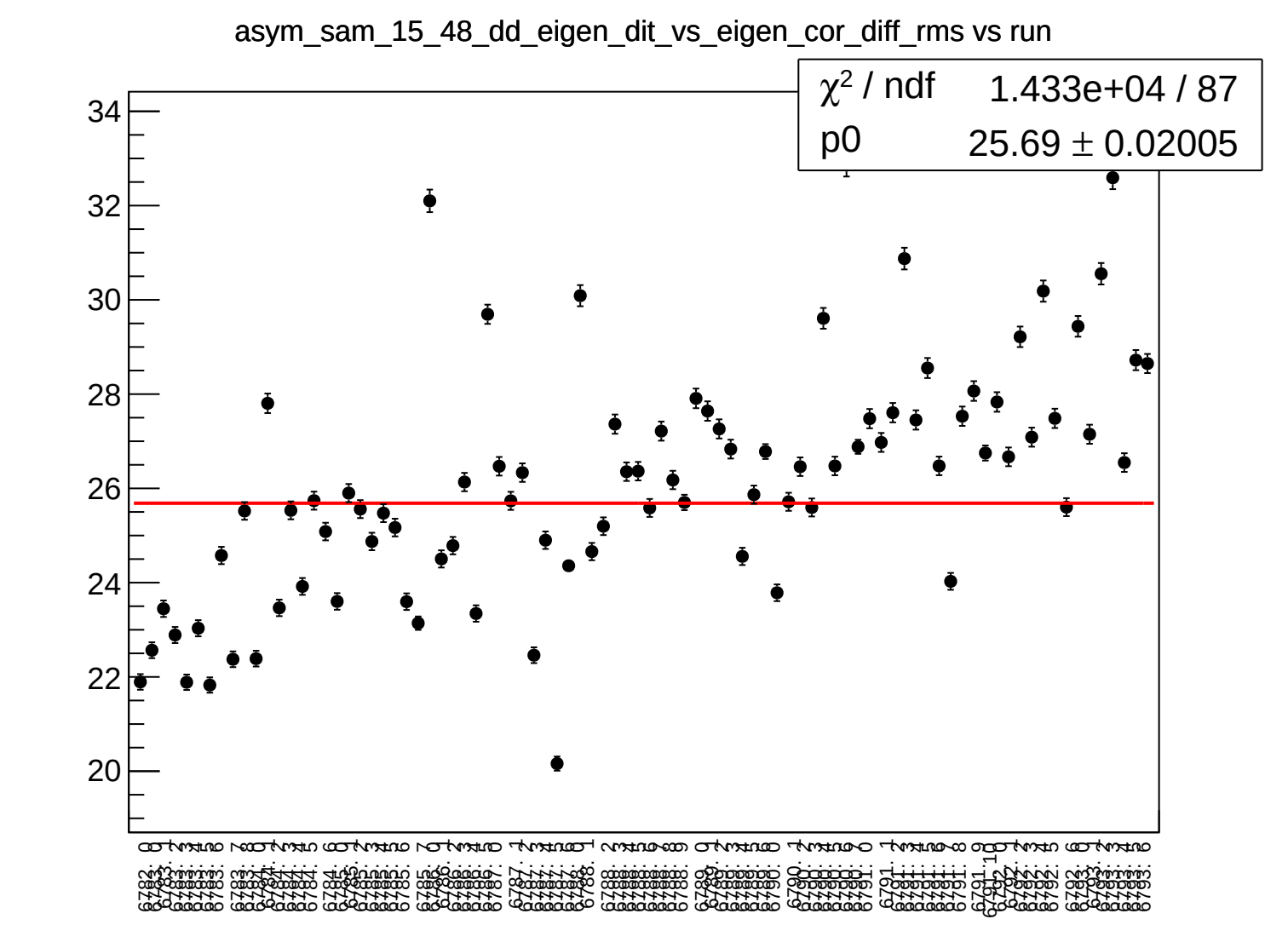

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.004387 ± 0.02836
pull
Entries 88
Mean 671.8
Std Dev 0

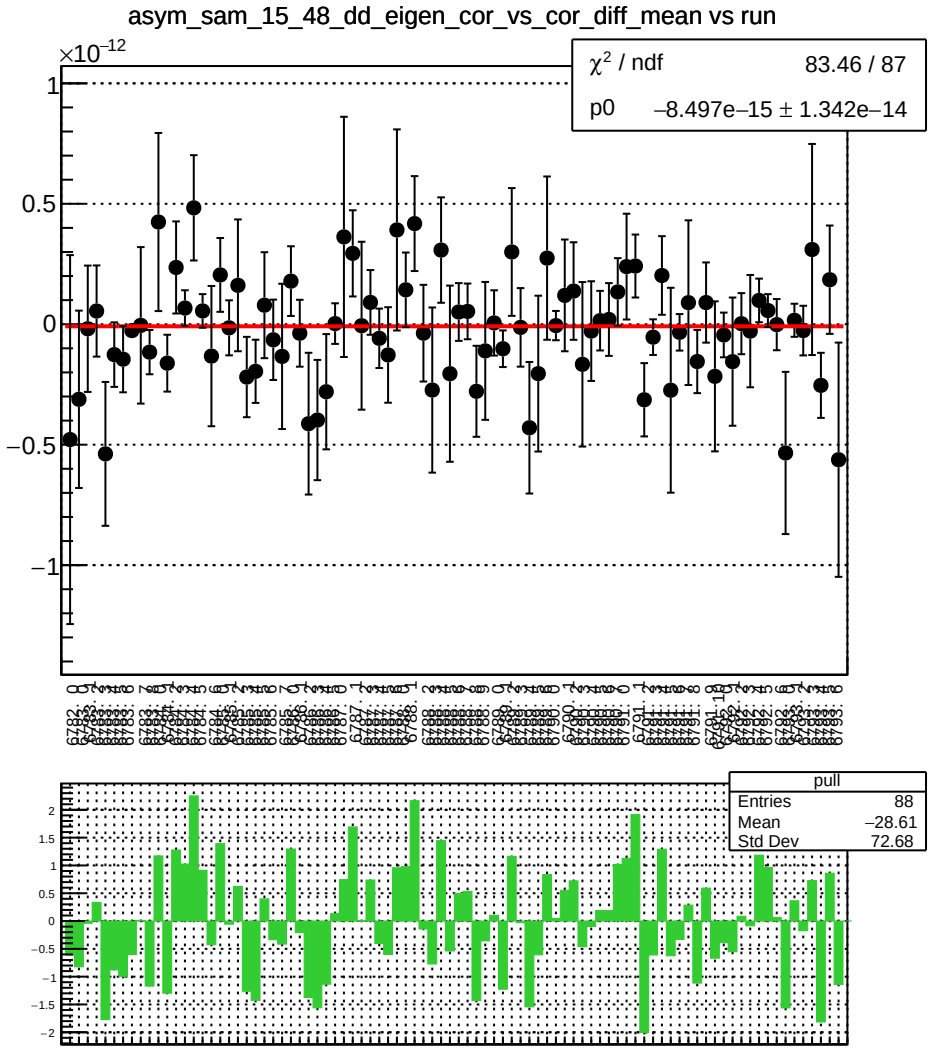

pull1D
Entries 88
Mean −0.01047
Std Dev 1.011

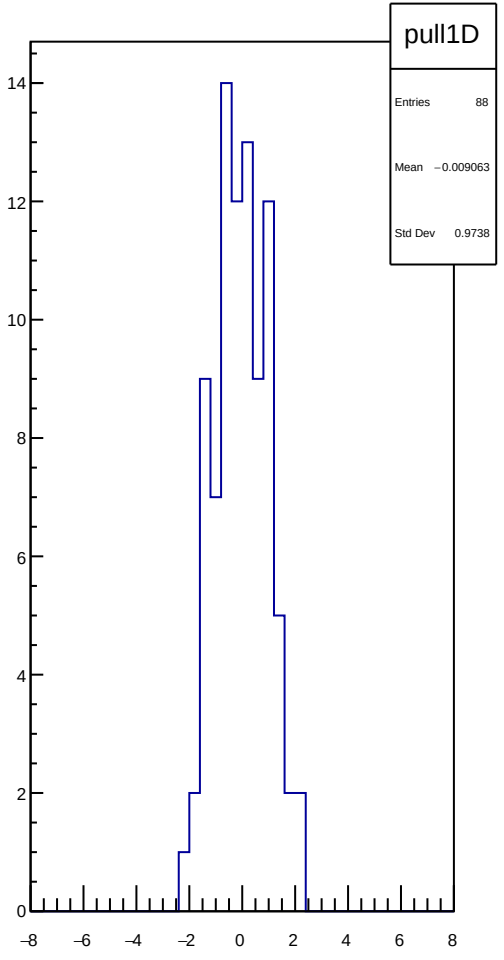

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.433e+04 / 87
p0 25.69 ± 0.02005
34
32
30
28
26
24
22
20

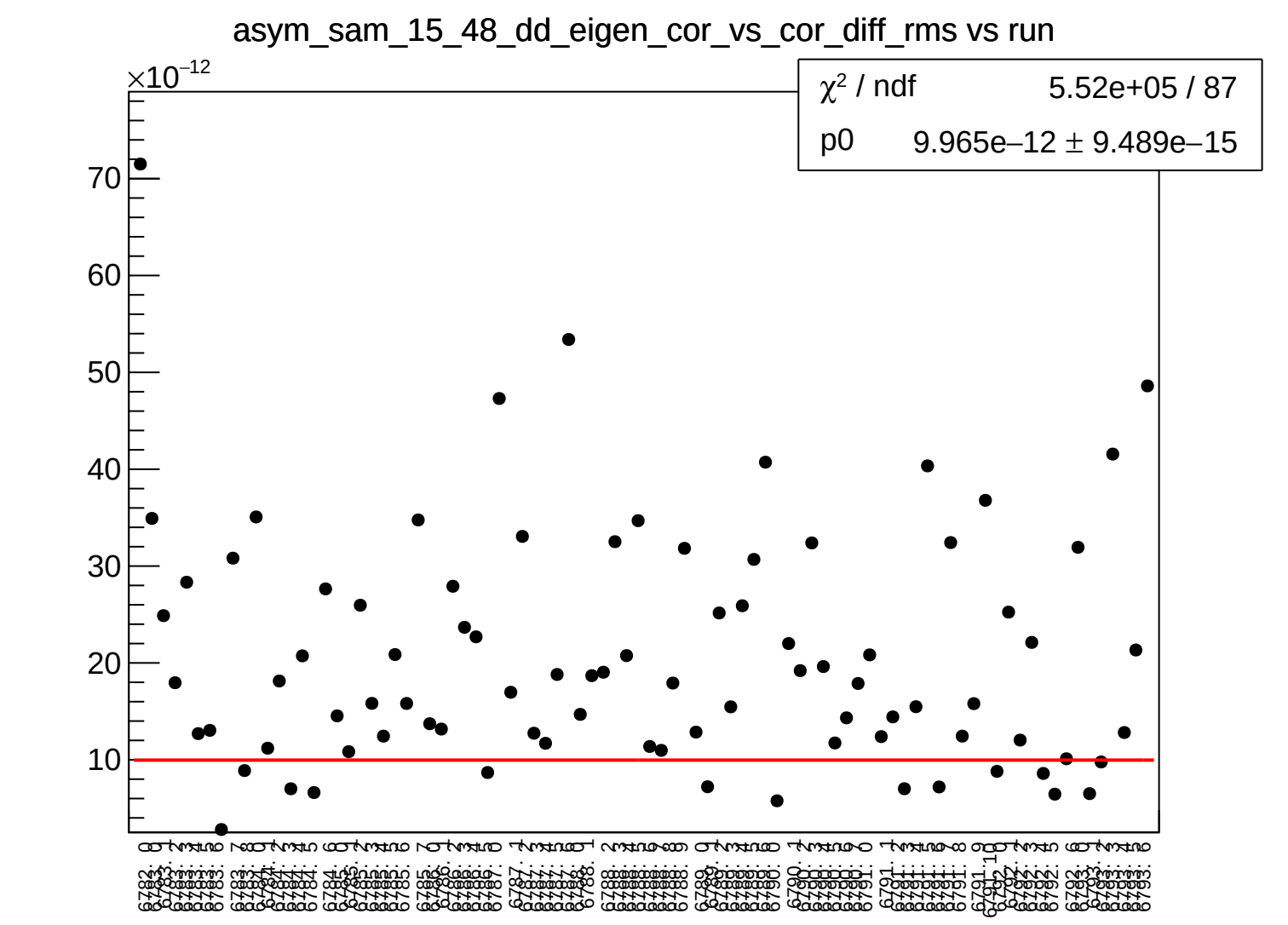

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.004387 ± 0.02836
pull
Entries 88
Mean 671.8
Std Dev 0

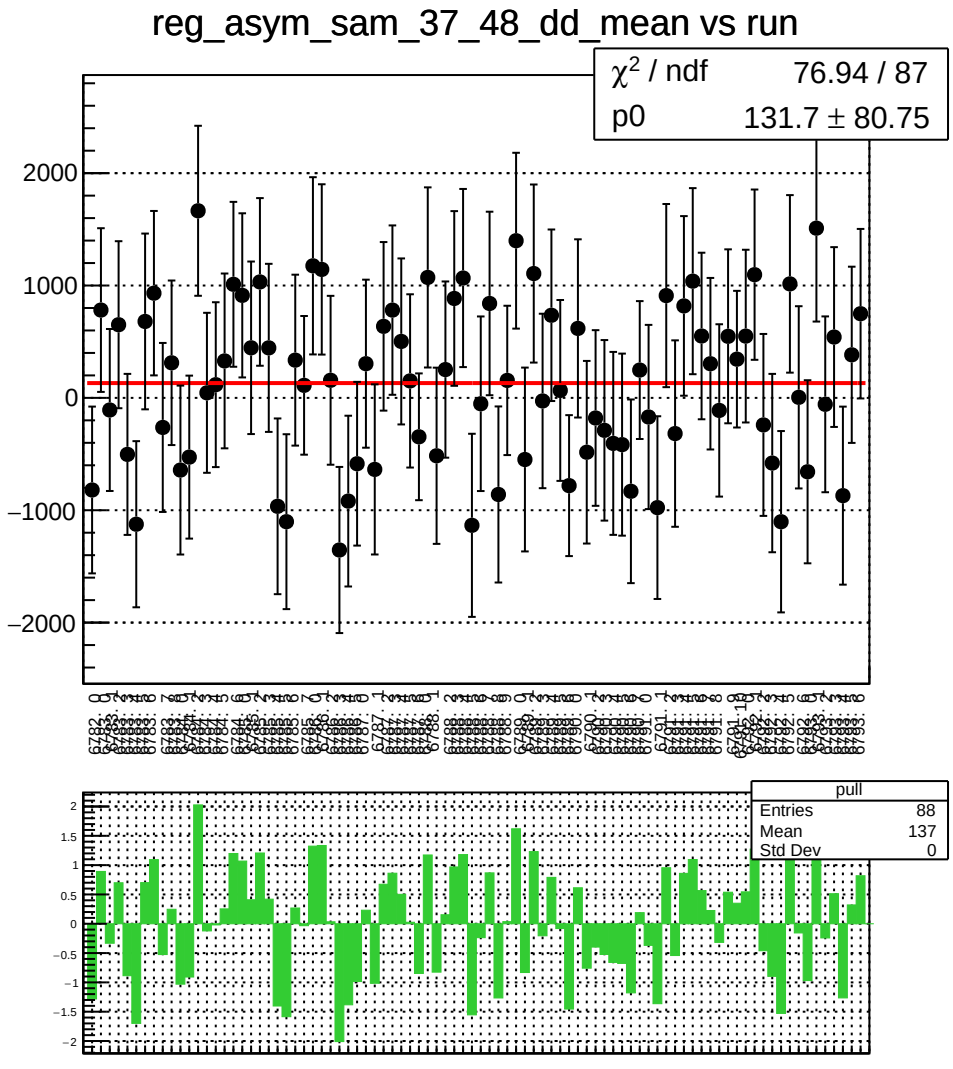

pull1D
Entries 88
Mean −0.01047
Std Dev 1.011

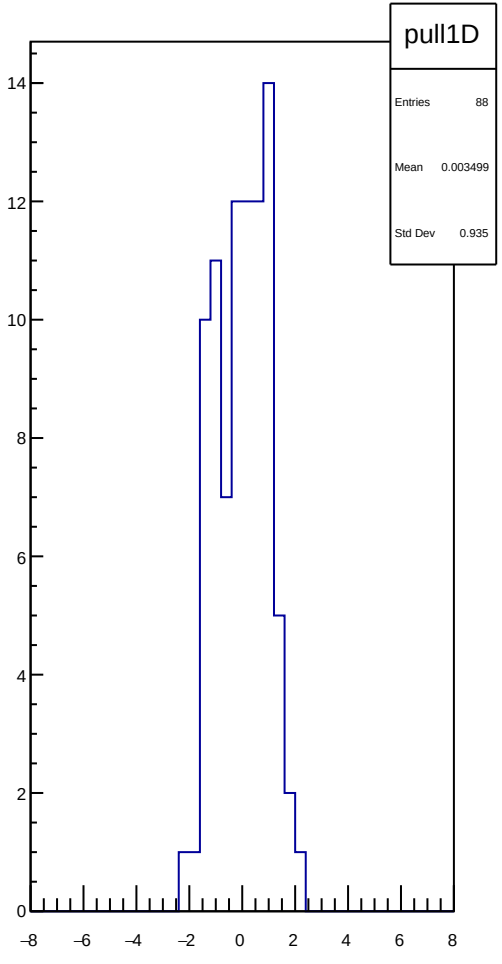

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.433e+04 / 87
p0 25.69 ± 0.02005
34
32
30
28
26
24
22
20

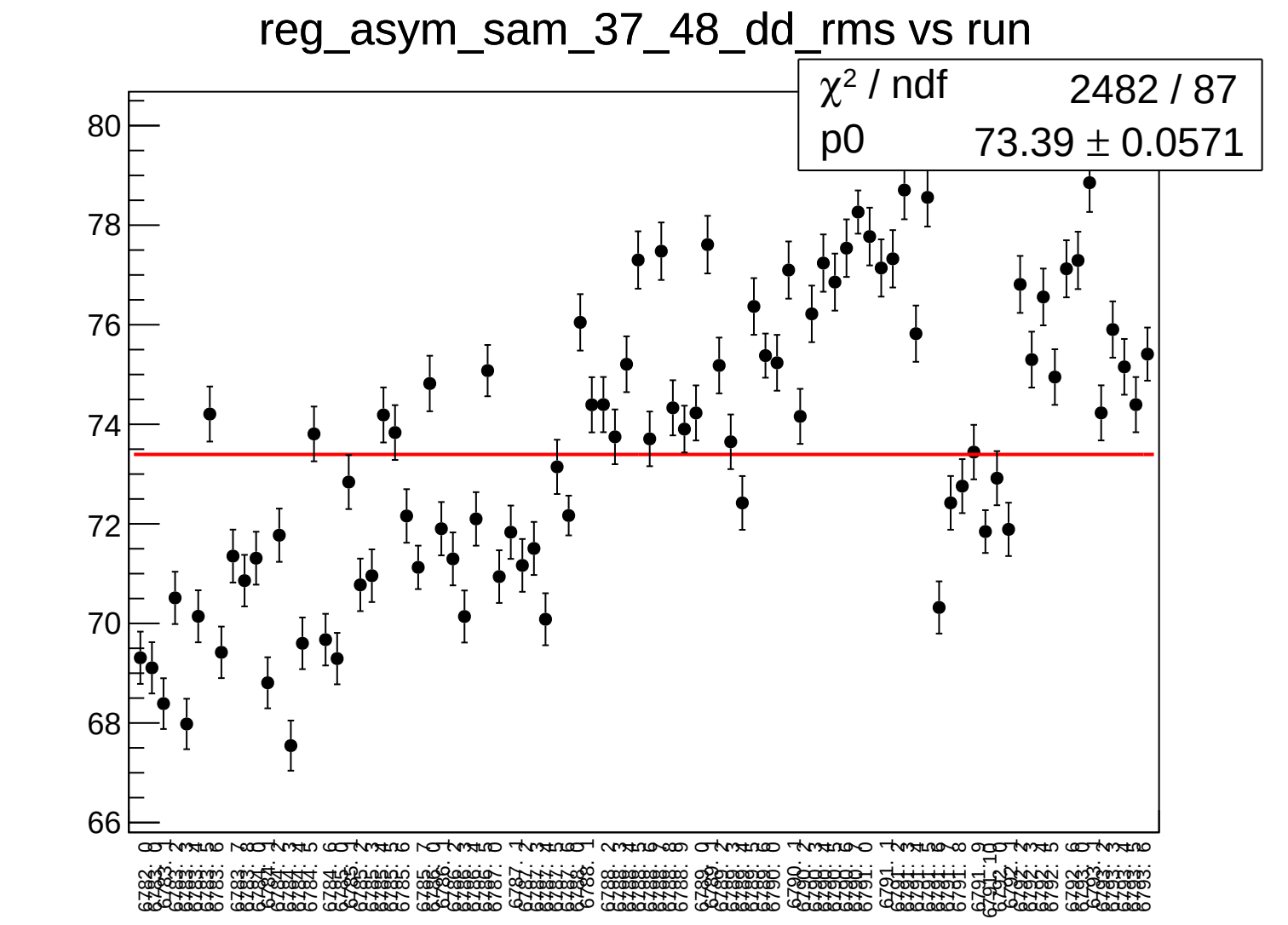

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.46 / 87
p0 −8.497e−15 ± 1.342e−14
pull
Entries 88
Mean −28.61
Std Dev 72.68

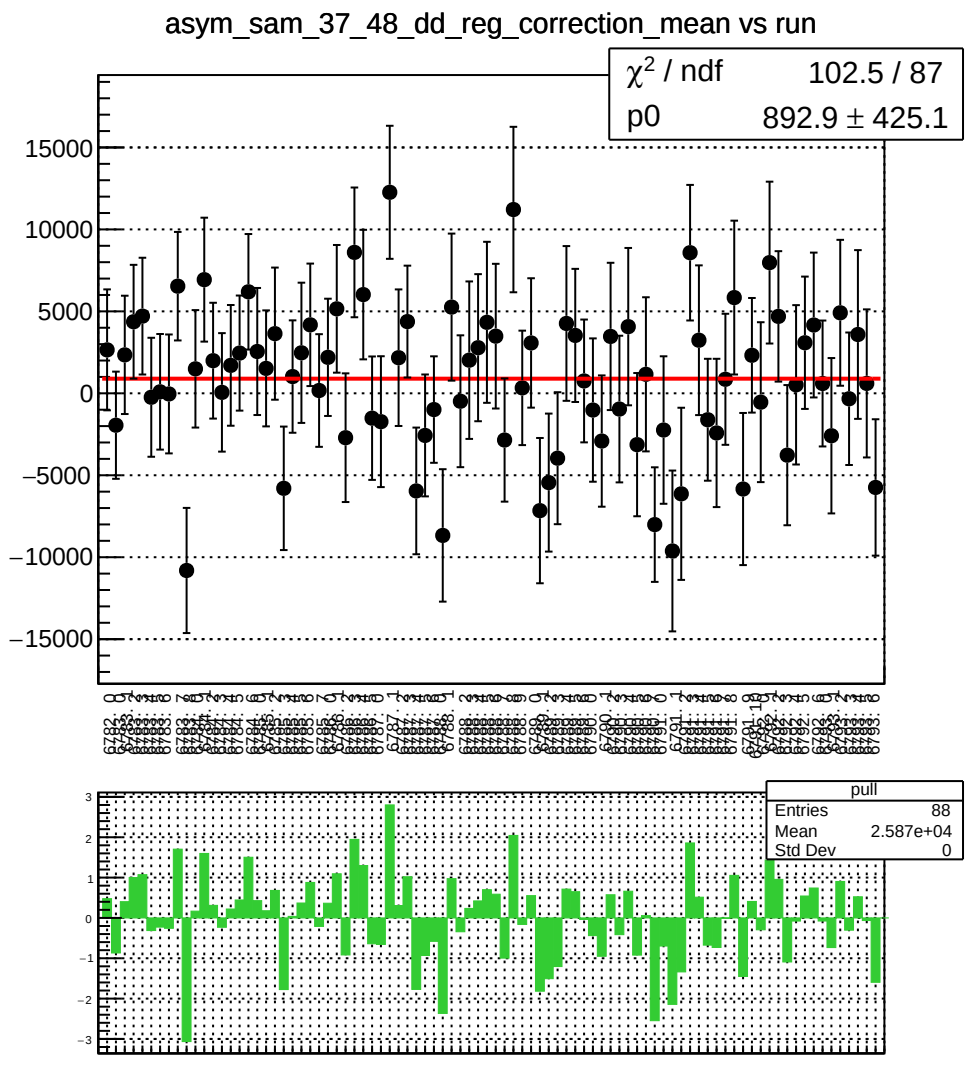

pull1D
Entries 88
Mean −0.009063
Std Dev 0.9738

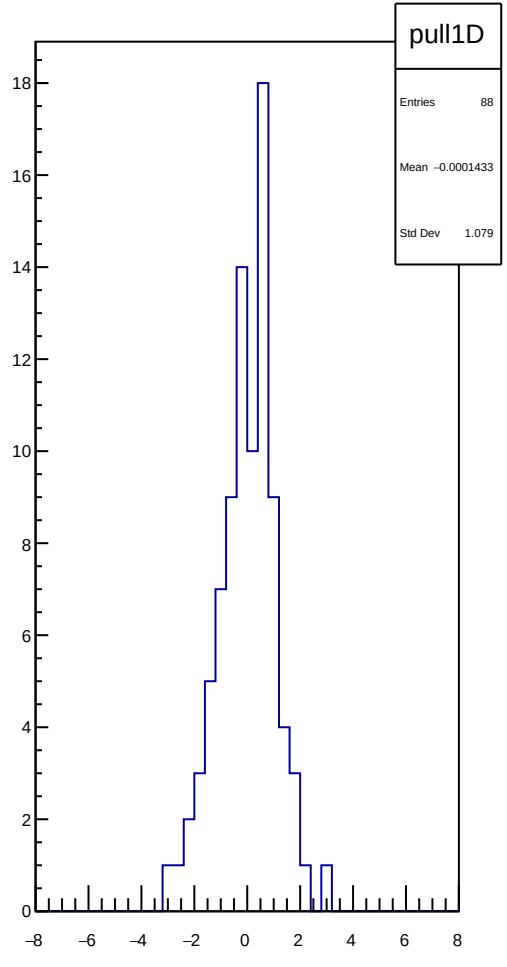

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.52e+05 / 87
p0 9.965e−12 ± 9.489e−15
70
60
50
40
30
20
10


reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 76.94 / 87
p0 131.7 ± 80.75
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 137
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.003499
Std Dev 0.935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2482 / 87
p0 73.39 ± 0.0571
80
78
76
74
72
70
68
66


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 102.5 / 87
p0 892.9 ± 425.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 2.587e+04
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.0001433
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
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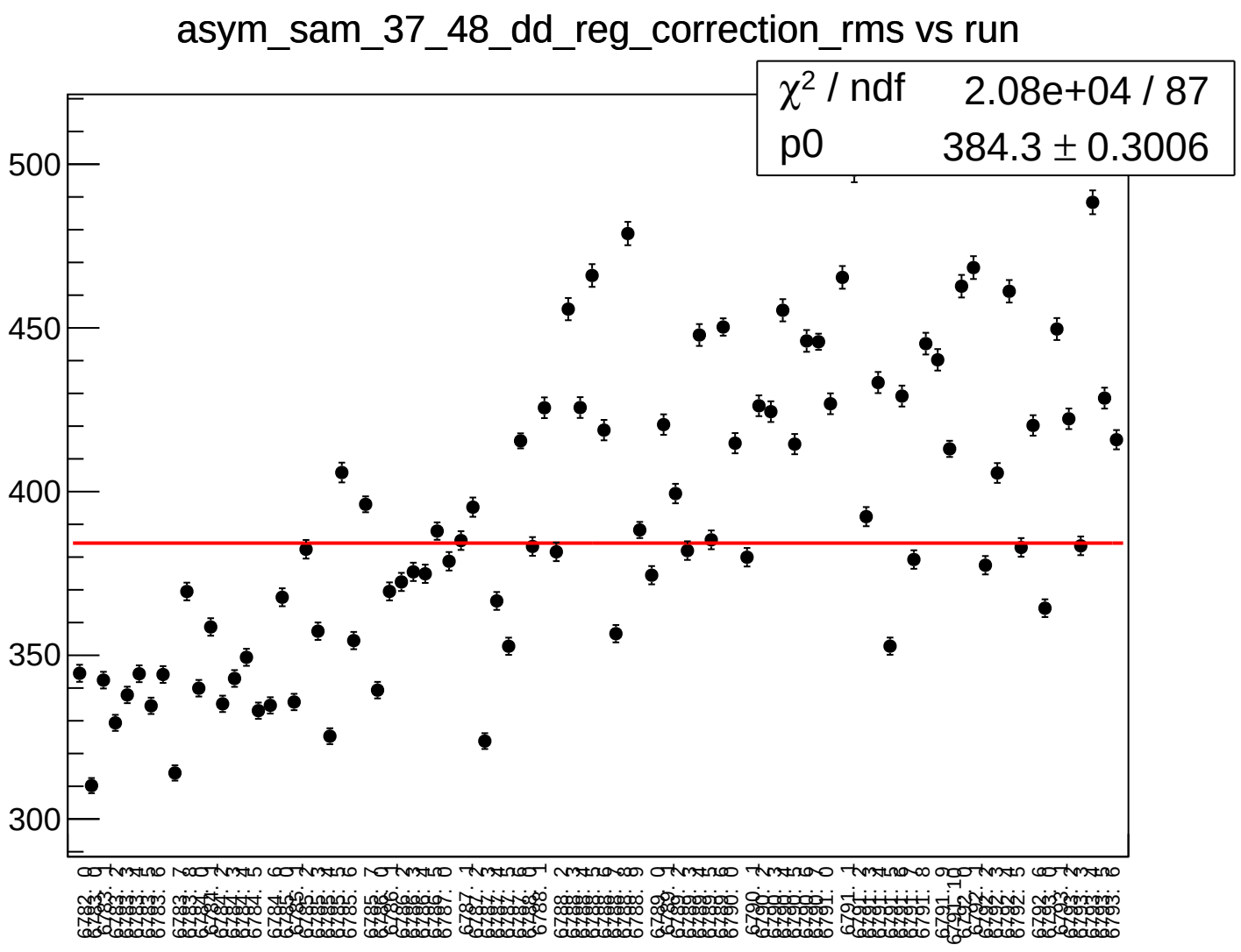
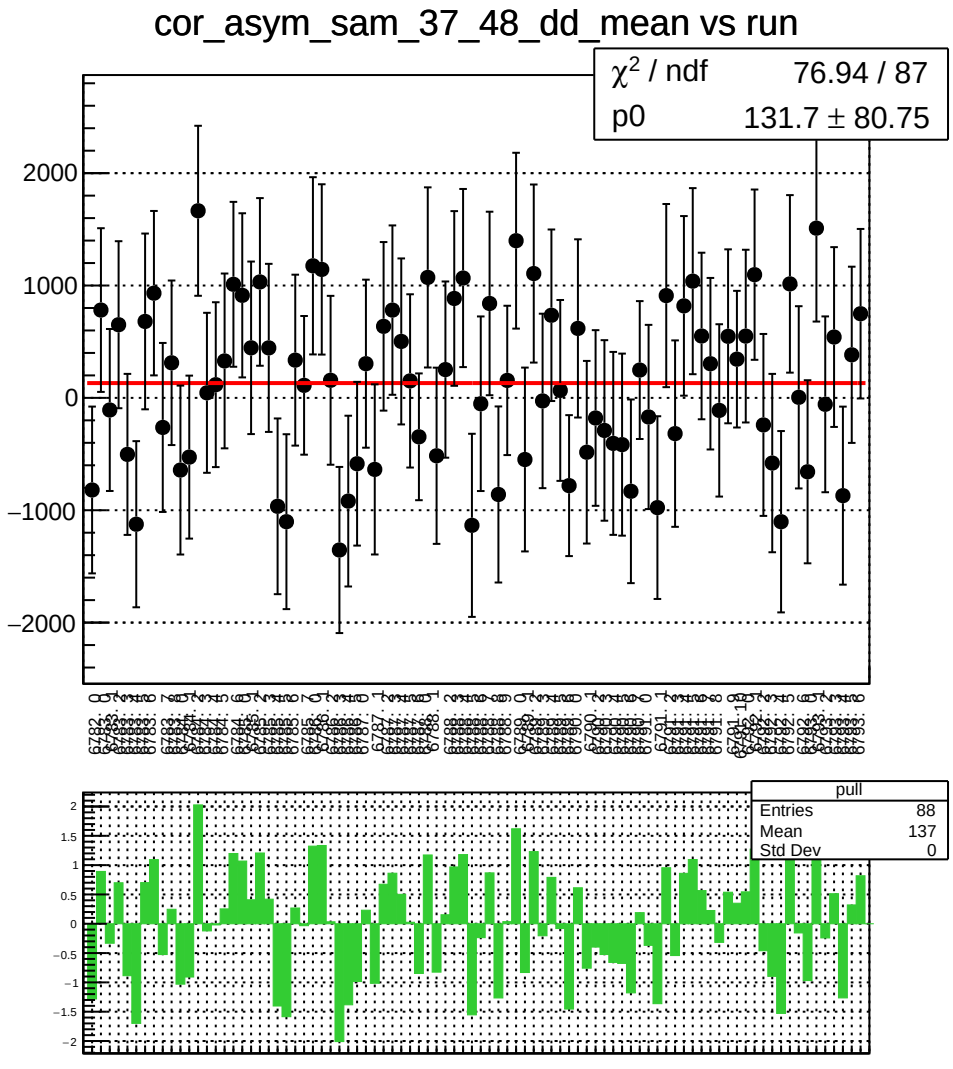
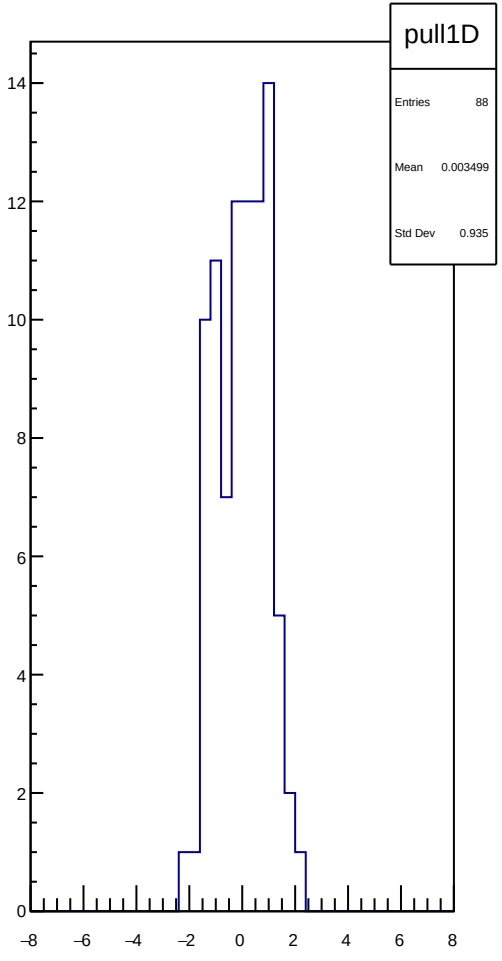
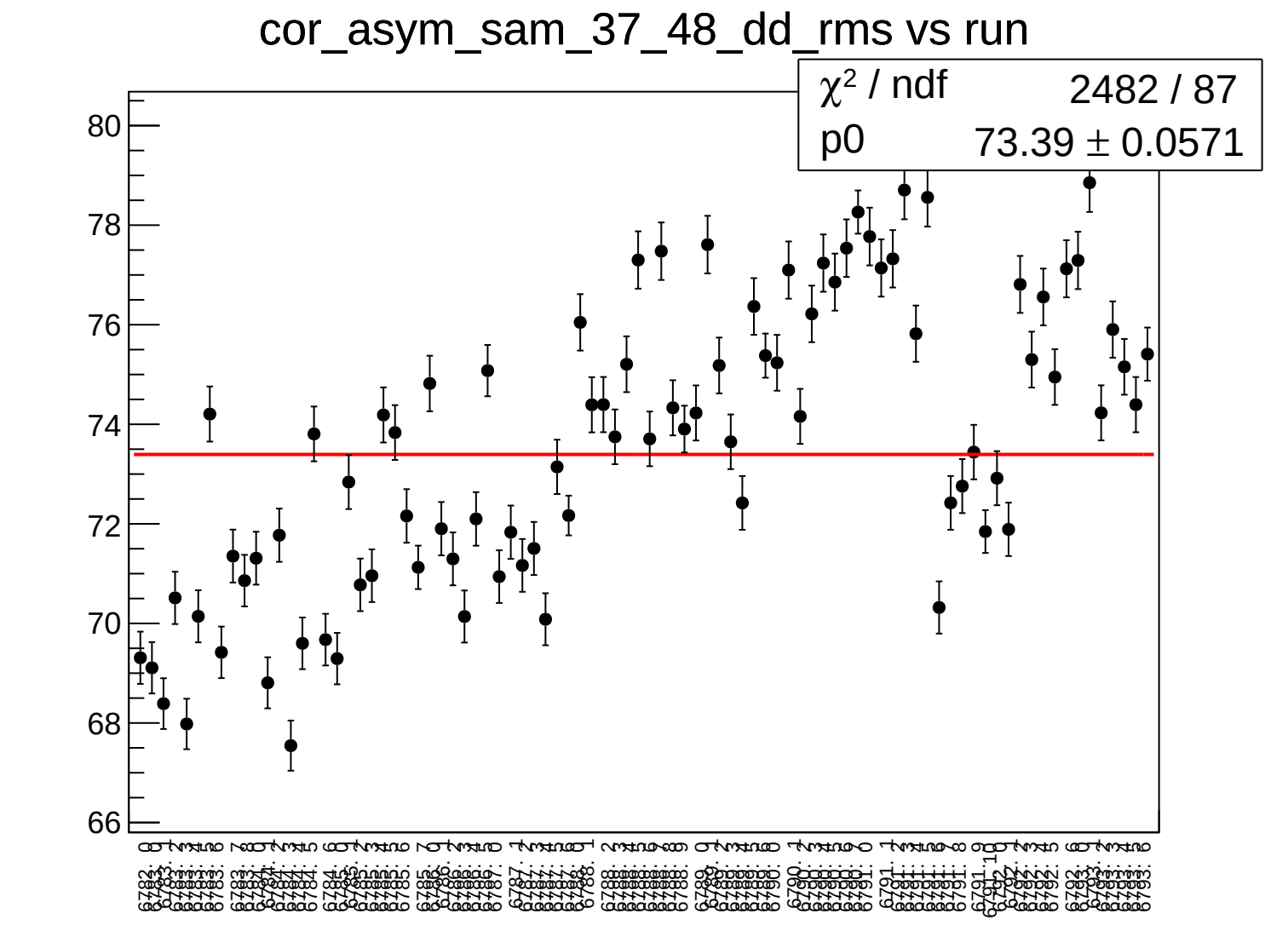
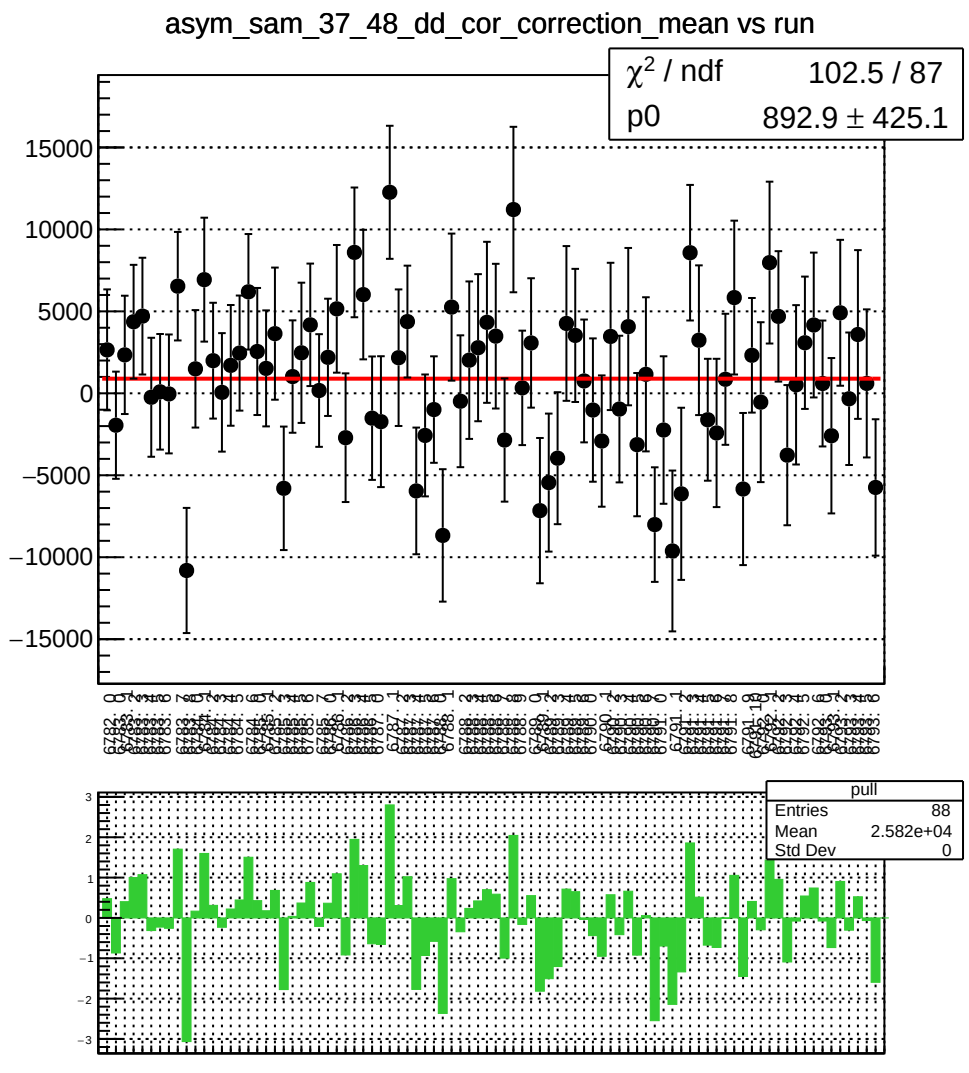
2
4
6
8

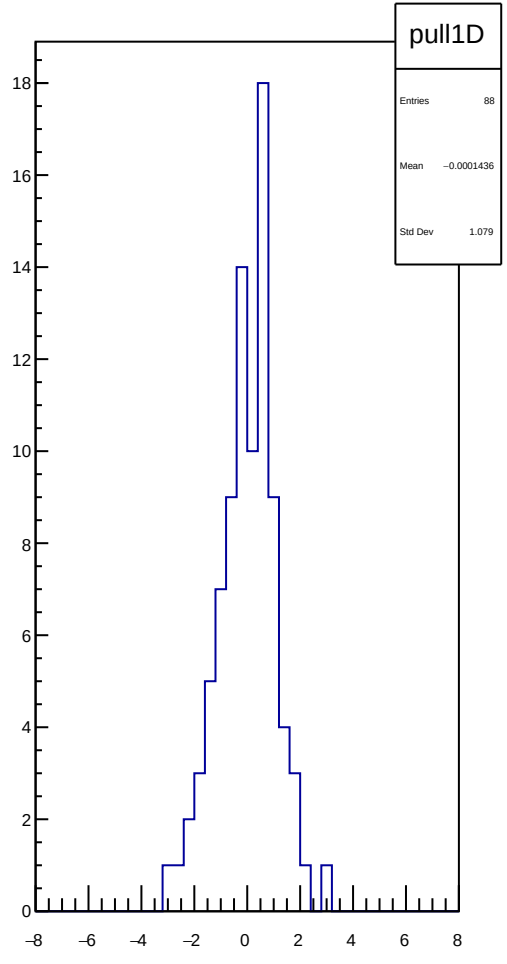

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2.08e+04 / 87
p0 384.3 ± 0.3006
500
450
400
350
300


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 76.94 / 87
p0 131.7 ± 80.75
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 137
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.003499
Std Dev 0.935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2482 / 87
p0 73.39 ± 0.0571
80
78
76
74
72
70
68
66


asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 102.5 / 87
p0 892.9 ± 425.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 2.582e+04
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.0001436
Std Dev 1.079
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16
14
12
10
8
6
4
2
0
−8
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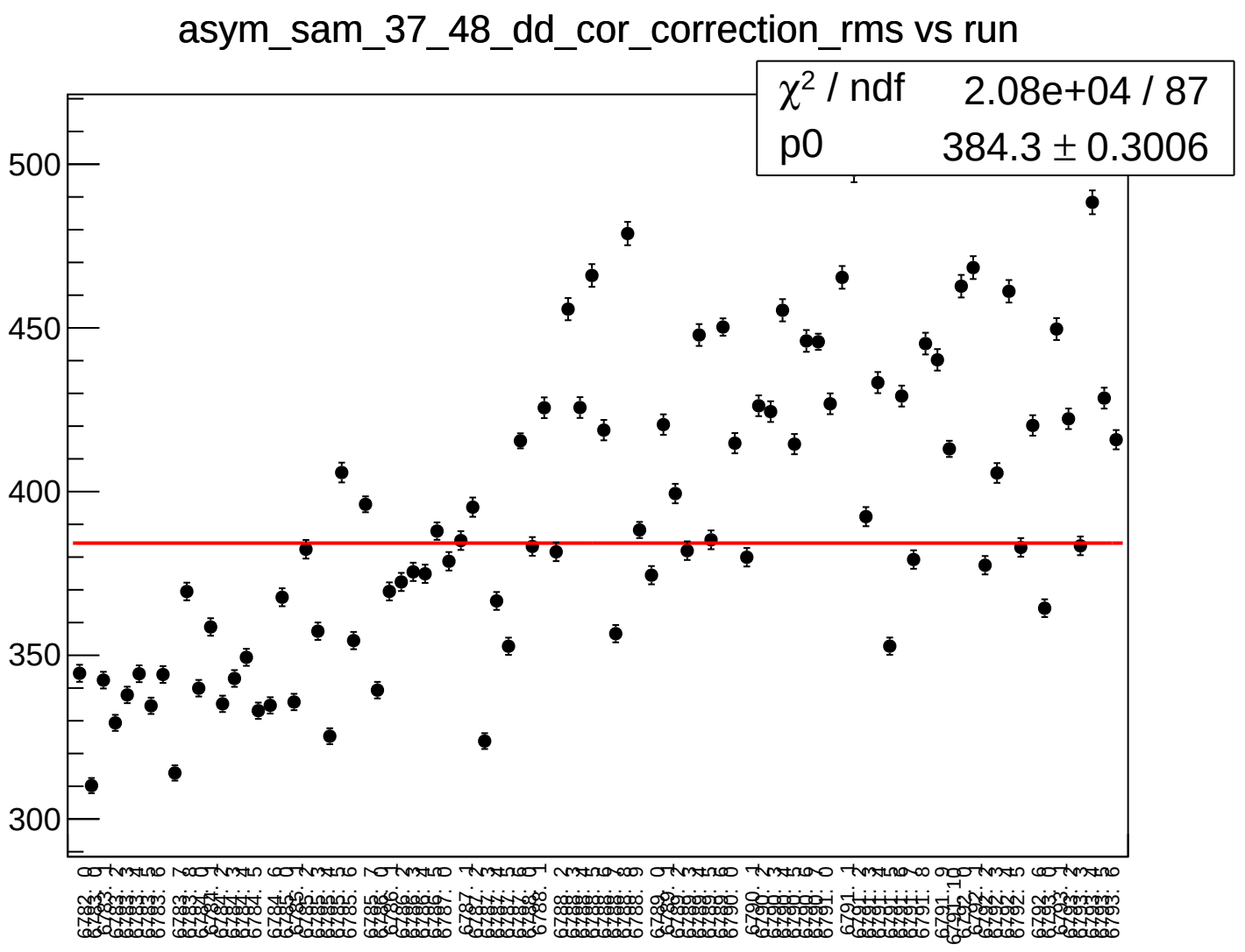
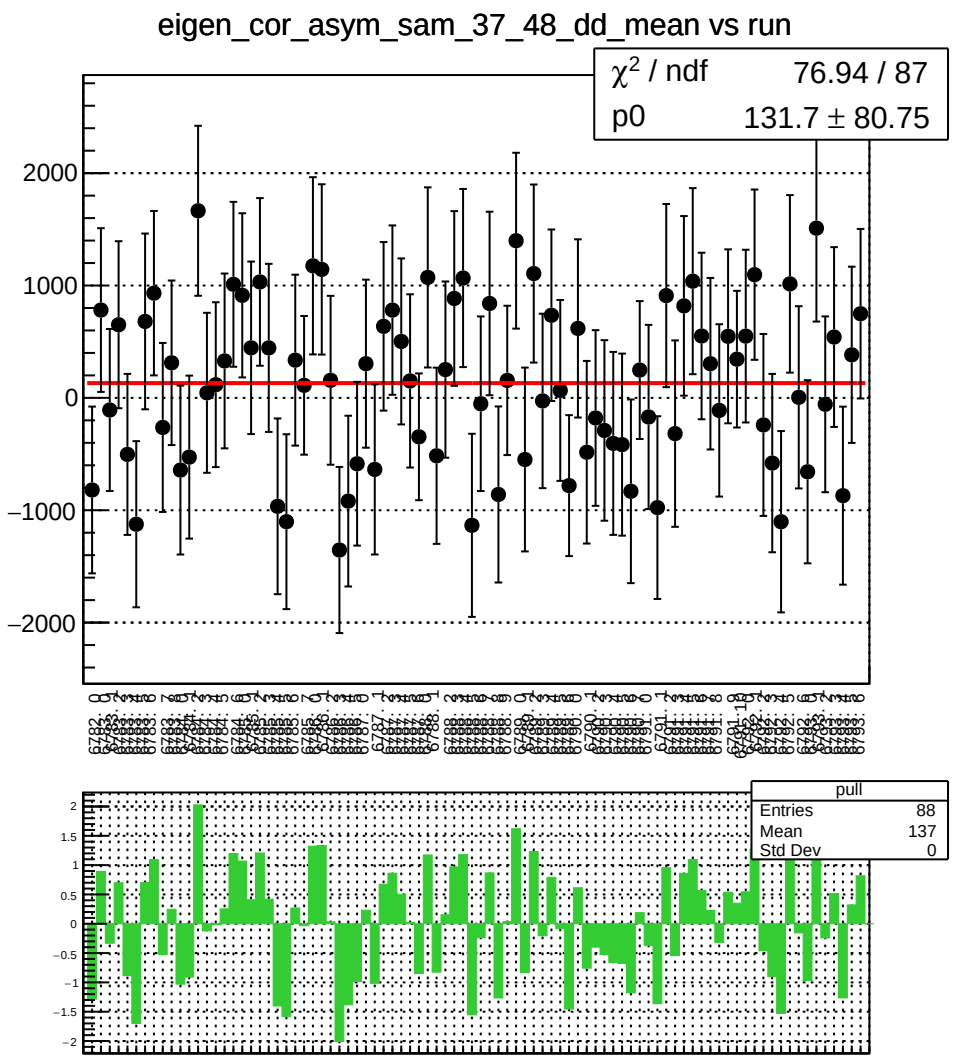
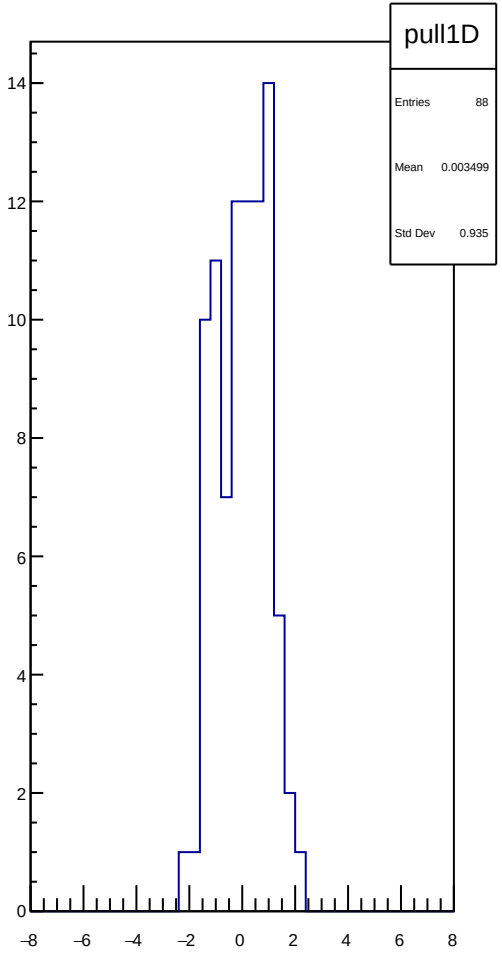
2
4
6
8


asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2.08e+04 / 87
p0 384.3 ± 0.3006
500
450
400
350
300


eigen_cor_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 76.94 / 87
p0 131.7 ± 80.75
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 137
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.003499
Std Dev 0.935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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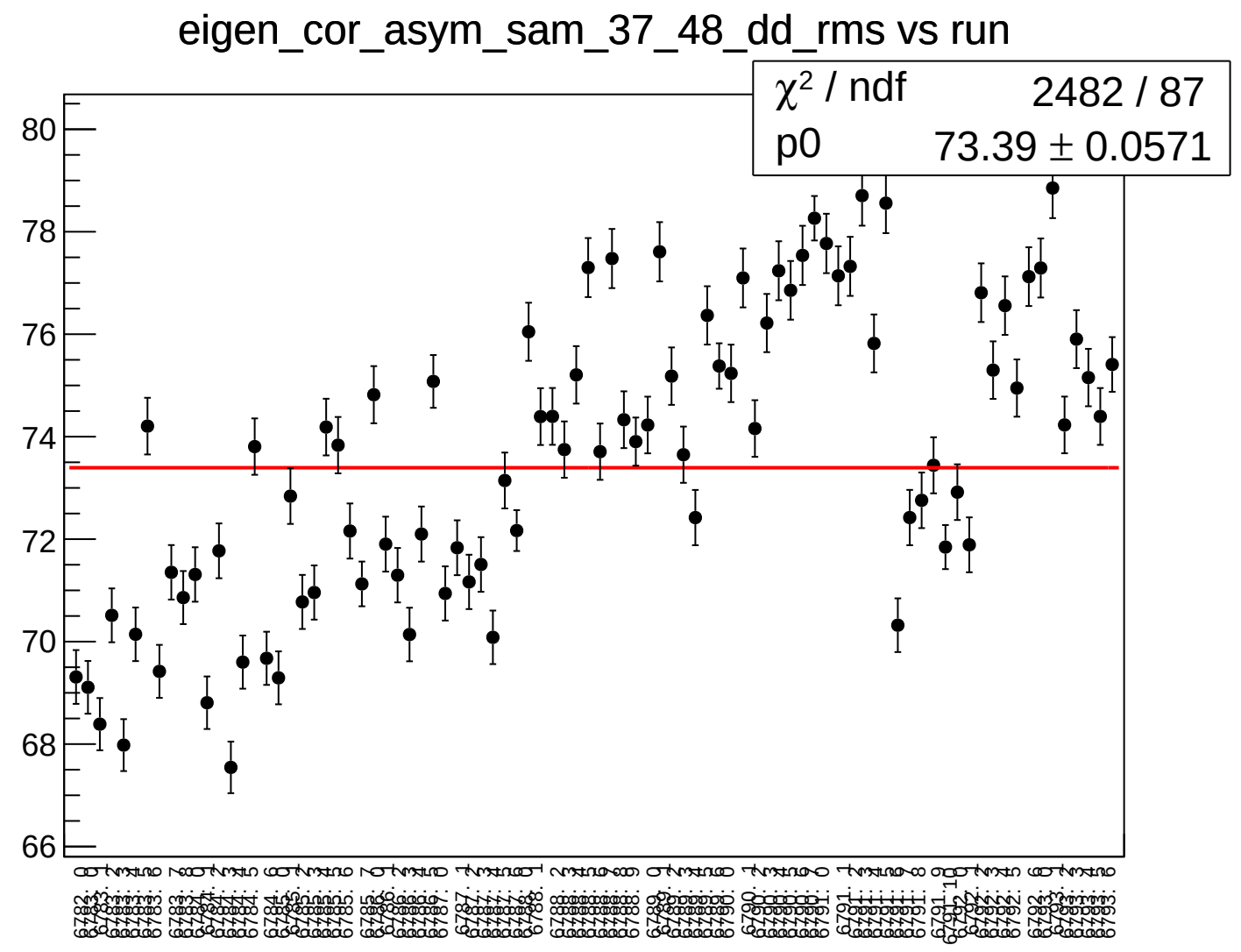
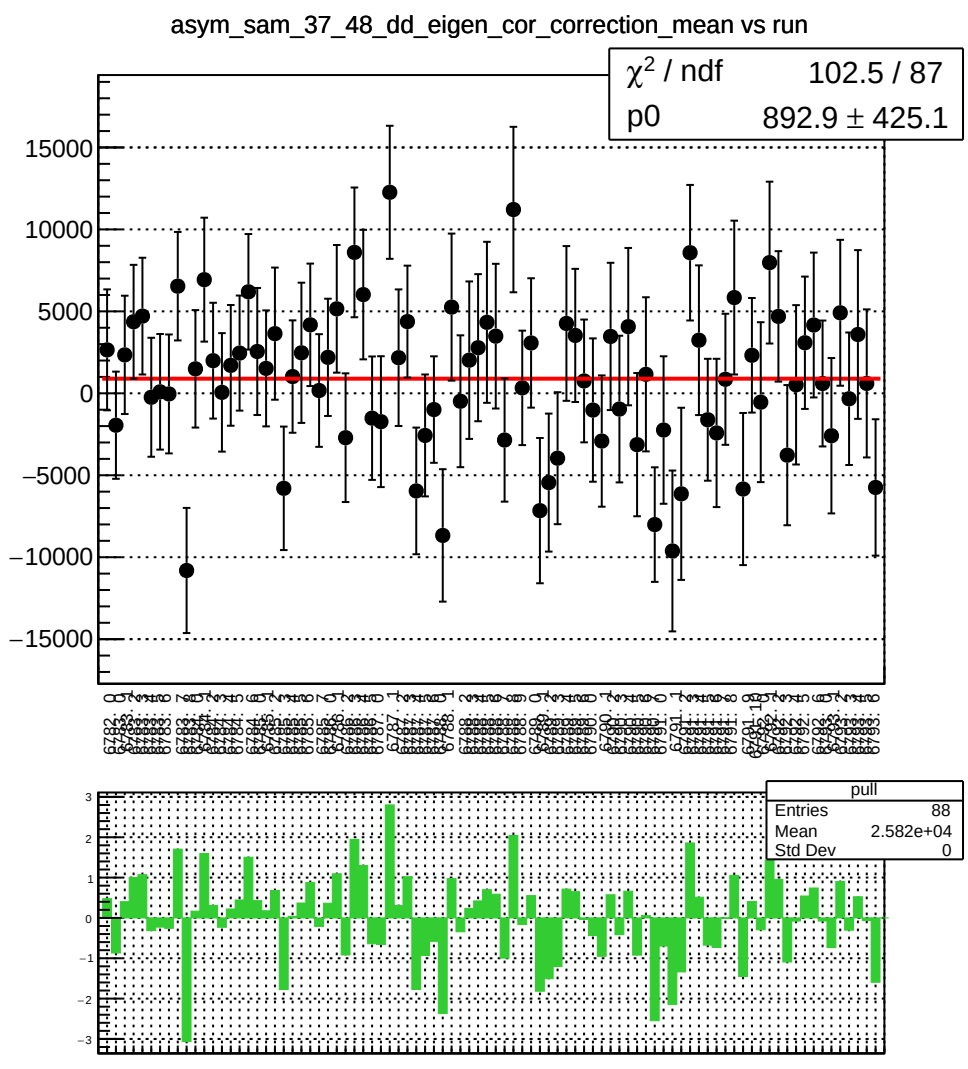
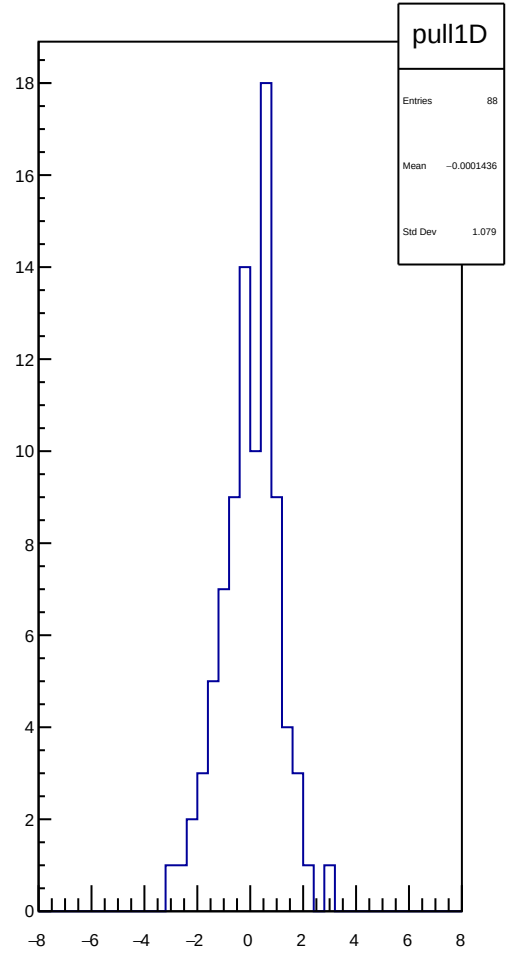
2
4
6
8


eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2482 / 87
p0 73.39 ± 0.0571
80
78
76
74
72
70
68
66


asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 87
p0 892.9 ± 425.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 2.582e+04
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.0001436
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
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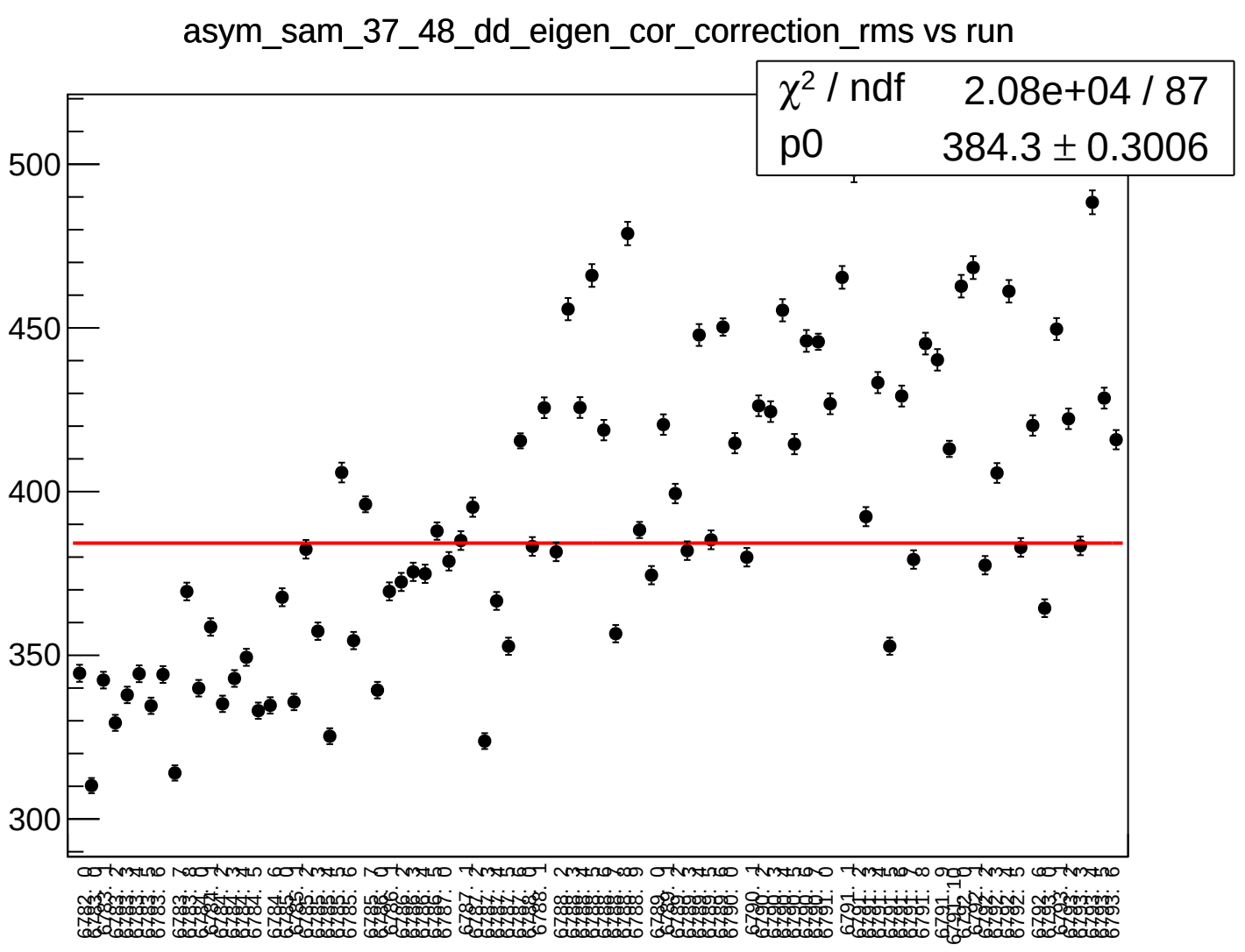
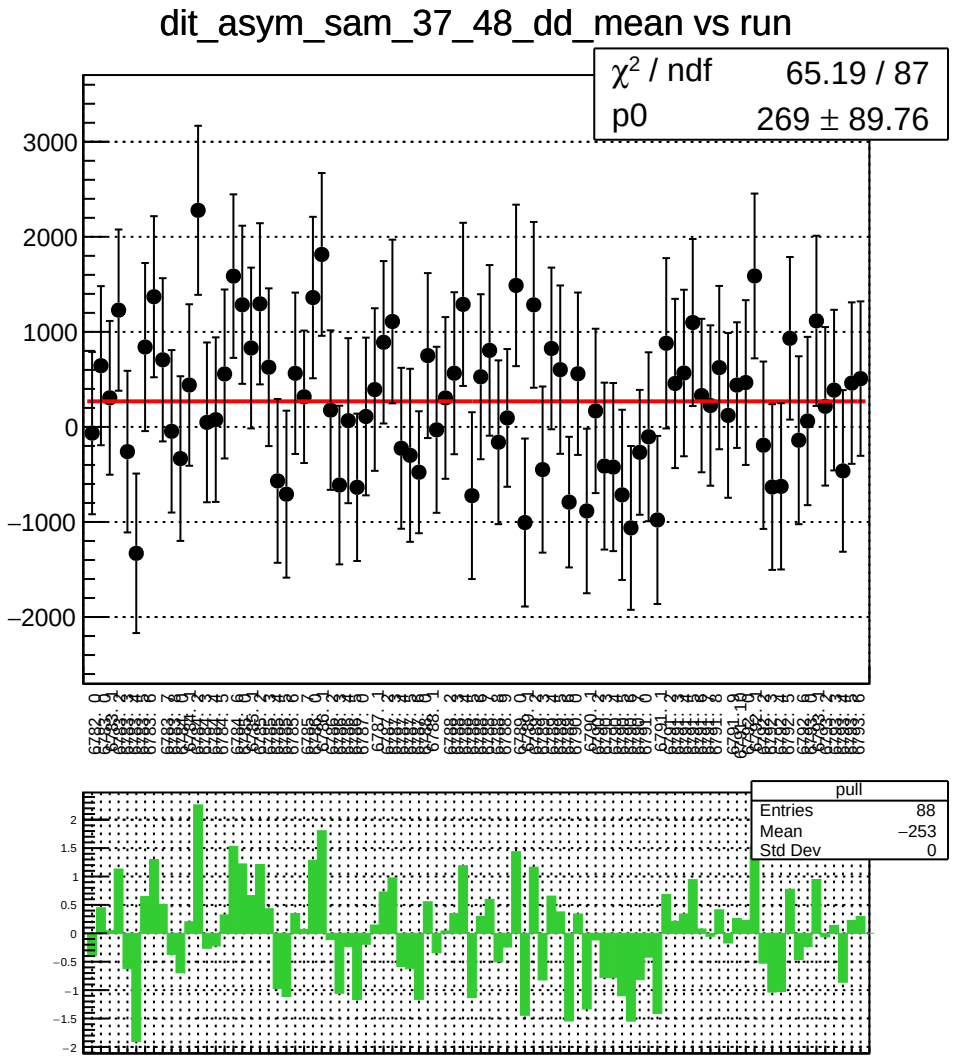
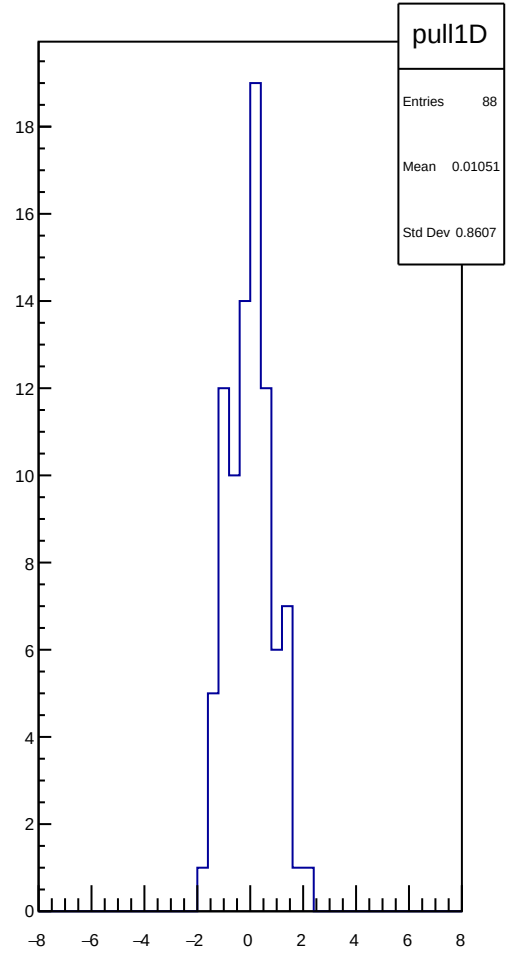
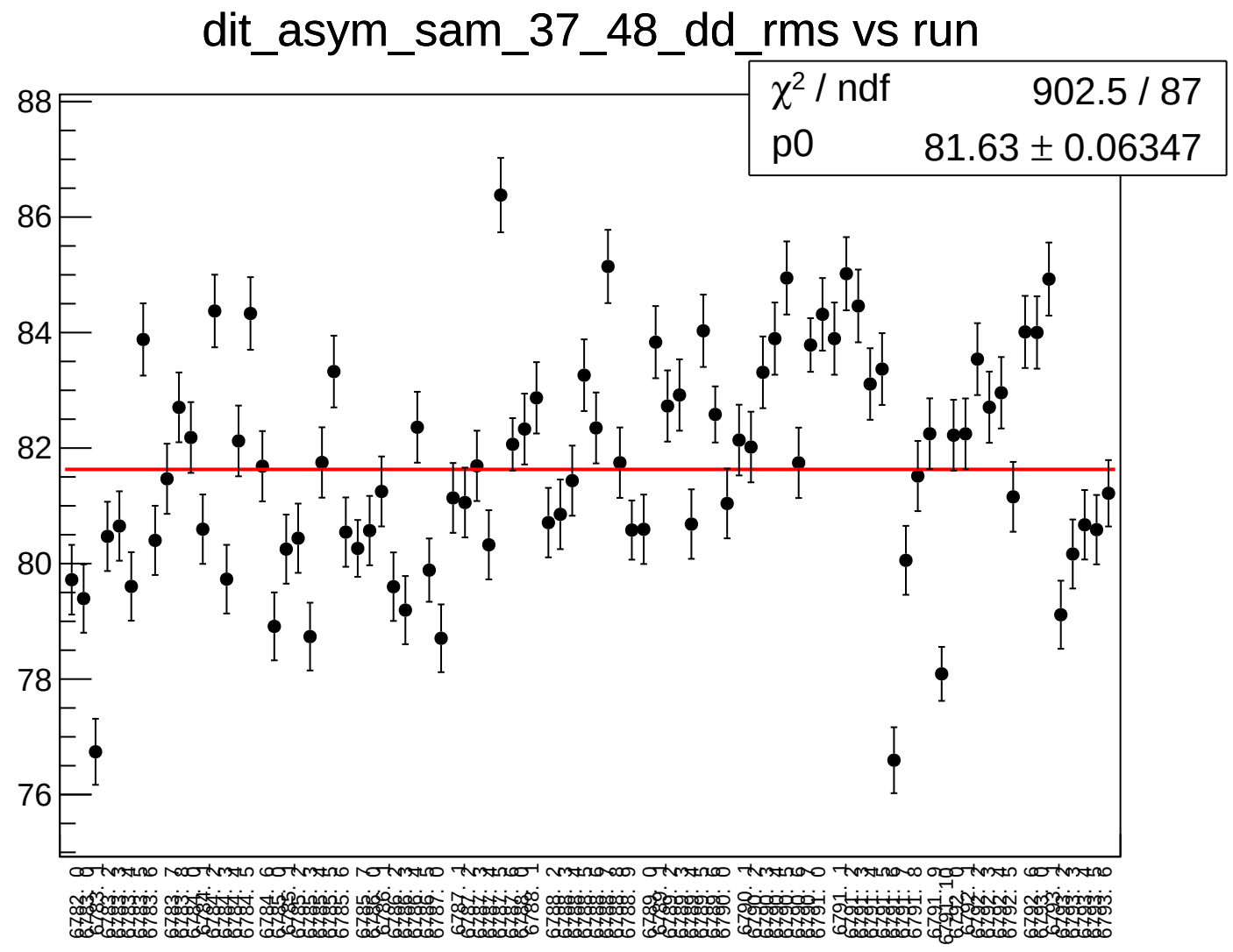
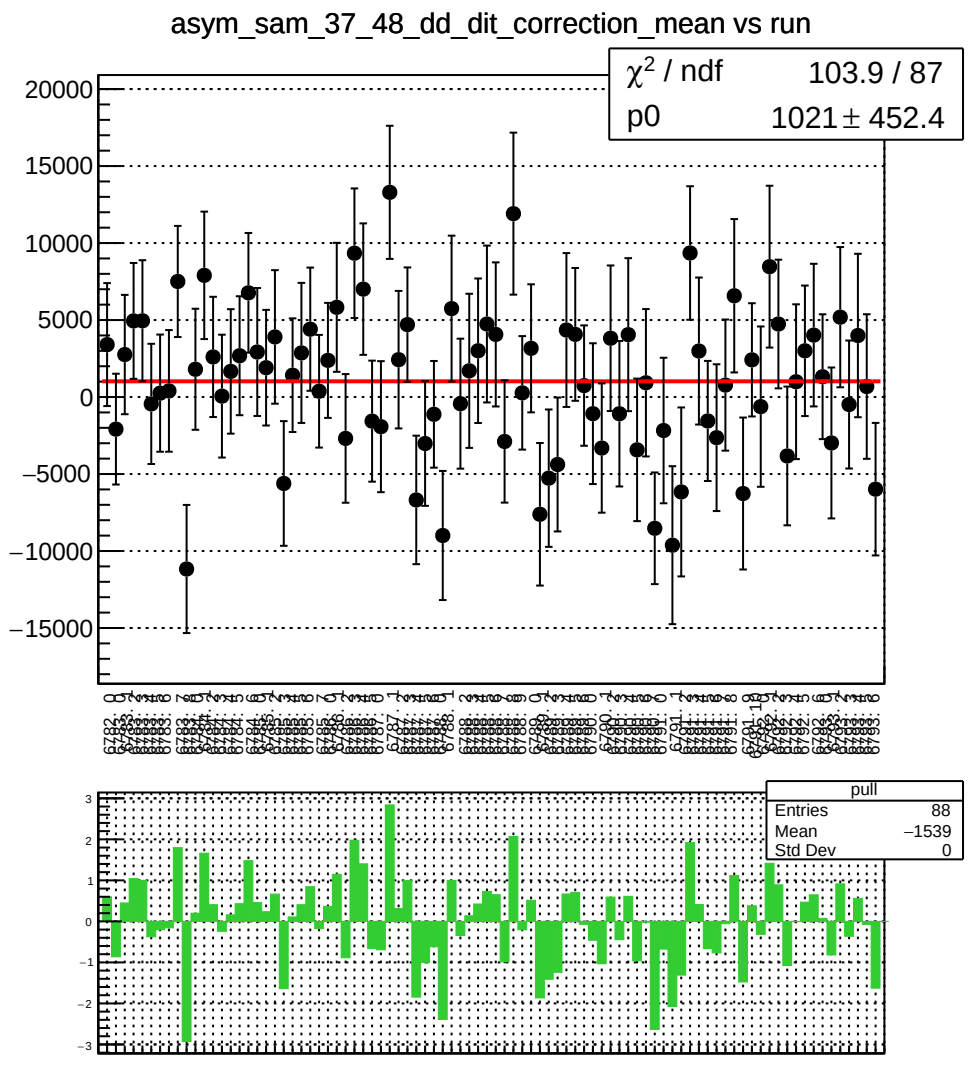
2
4
6
8

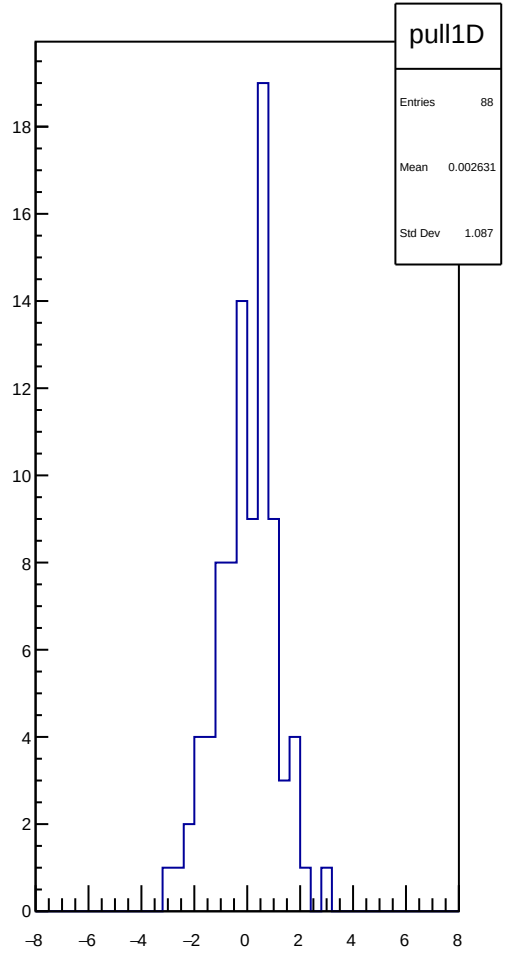

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.08e+04 / 87
p0 384.3 ± 0.3006
500
450
400
350
300

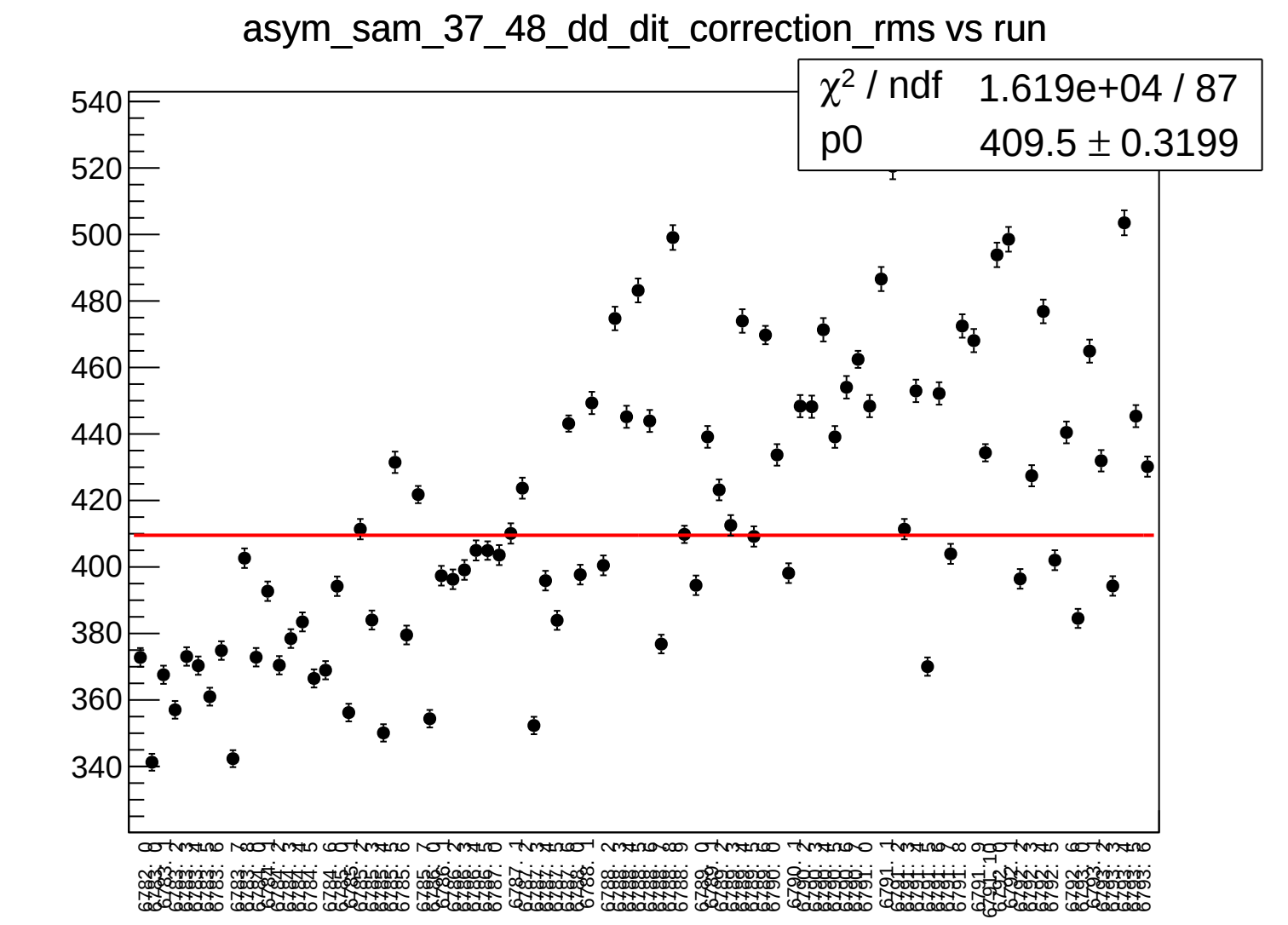

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 65.19 / 87
p0 269 ± 89.76
pull
Entries 88
Mean −253
Std Dev 0

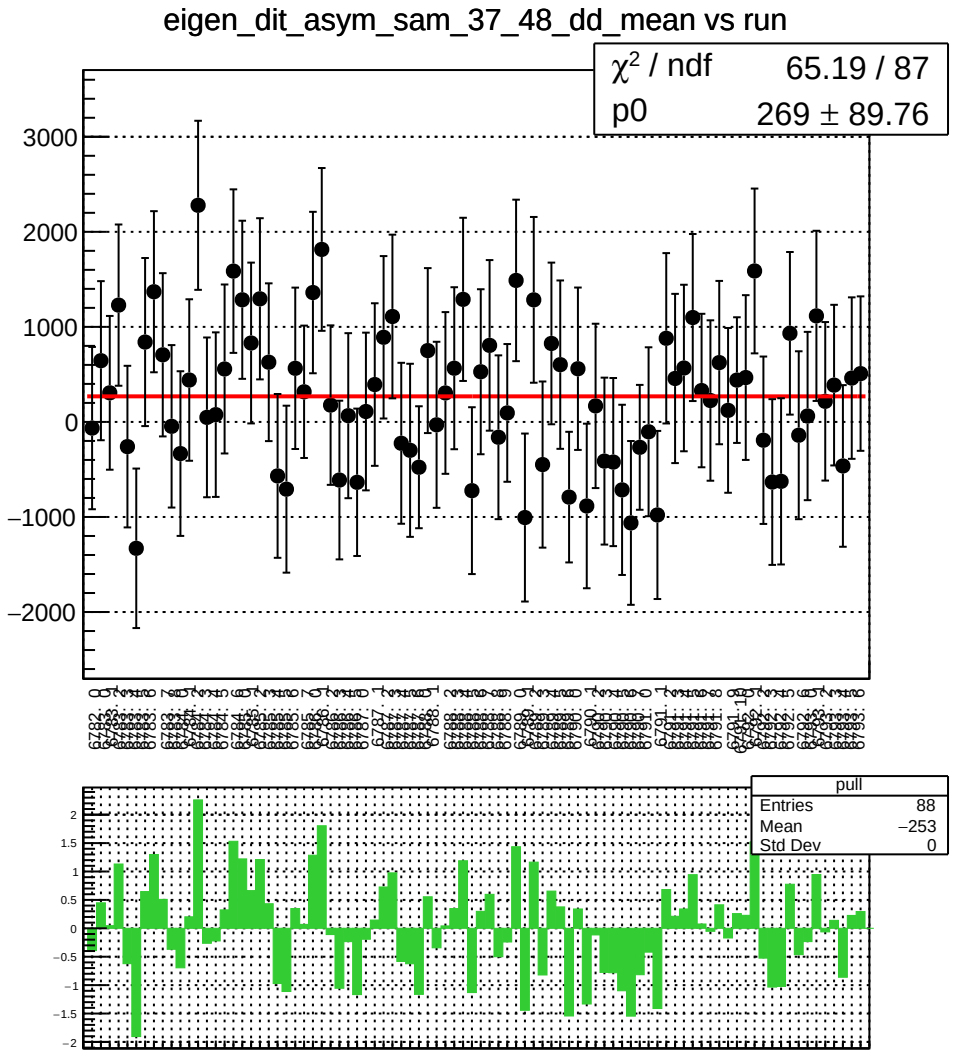

pull1D
Entries 88
Mean 0.01051
Std Dev 0.8607

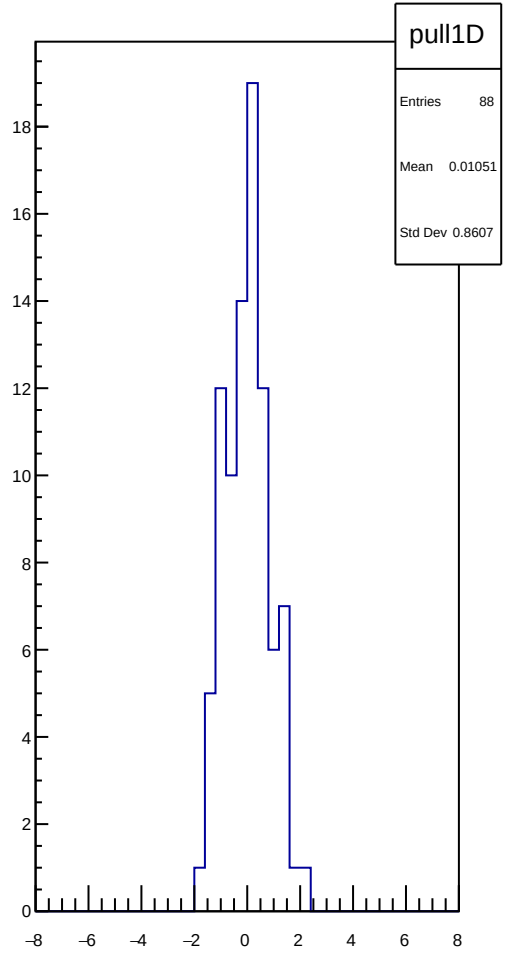

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 902.5 / 87
p0 81.63 ± 0.06347
88
86
84
82
80
78
76

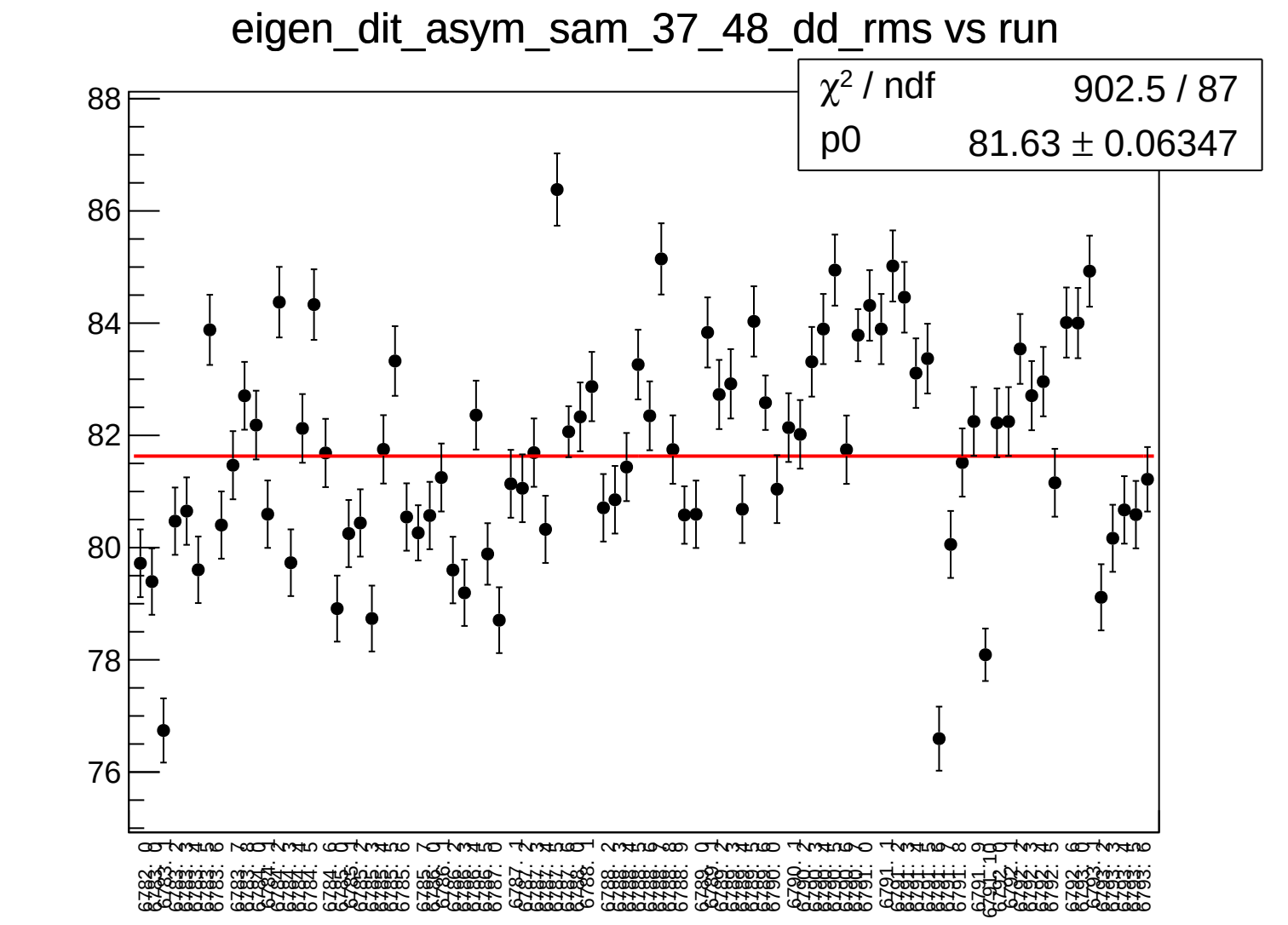

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 103.9 / 87
p0 1021 ± 452.4
pull
Entries 88
Mean −1539
Std Dev 0

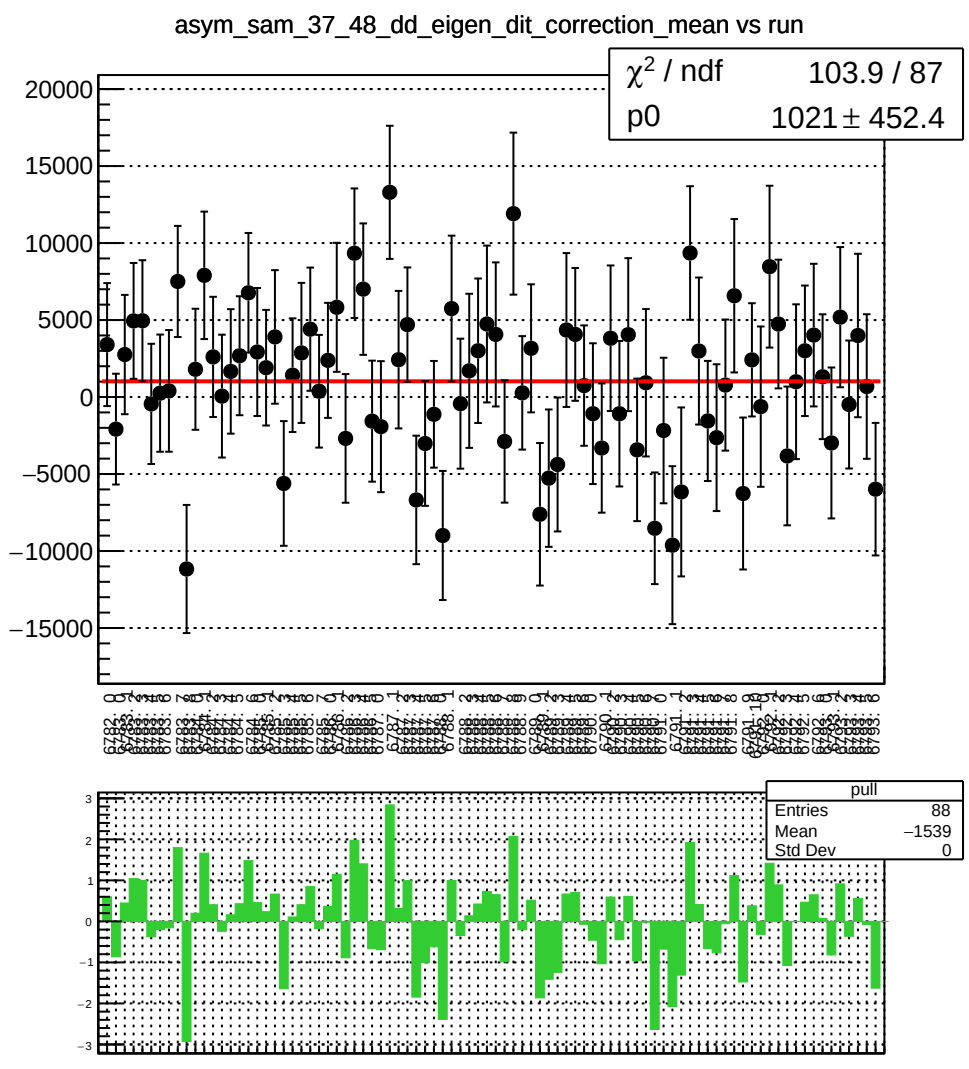

pull1D
Entries 88
Mean 0.002631
Std Dev 1.087

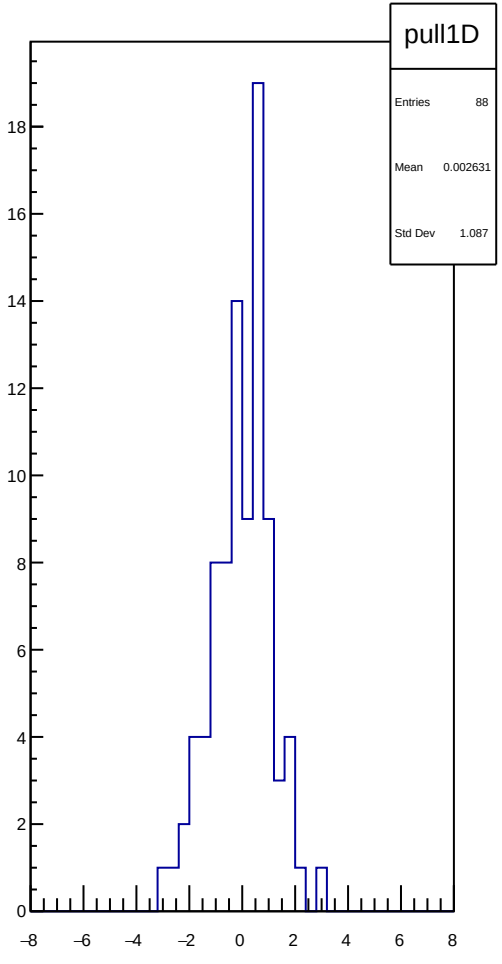

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.619e+04 / 87
p0 409.5 ± 0.3199
540
520
500
480
460
440
420
400
380
360
340

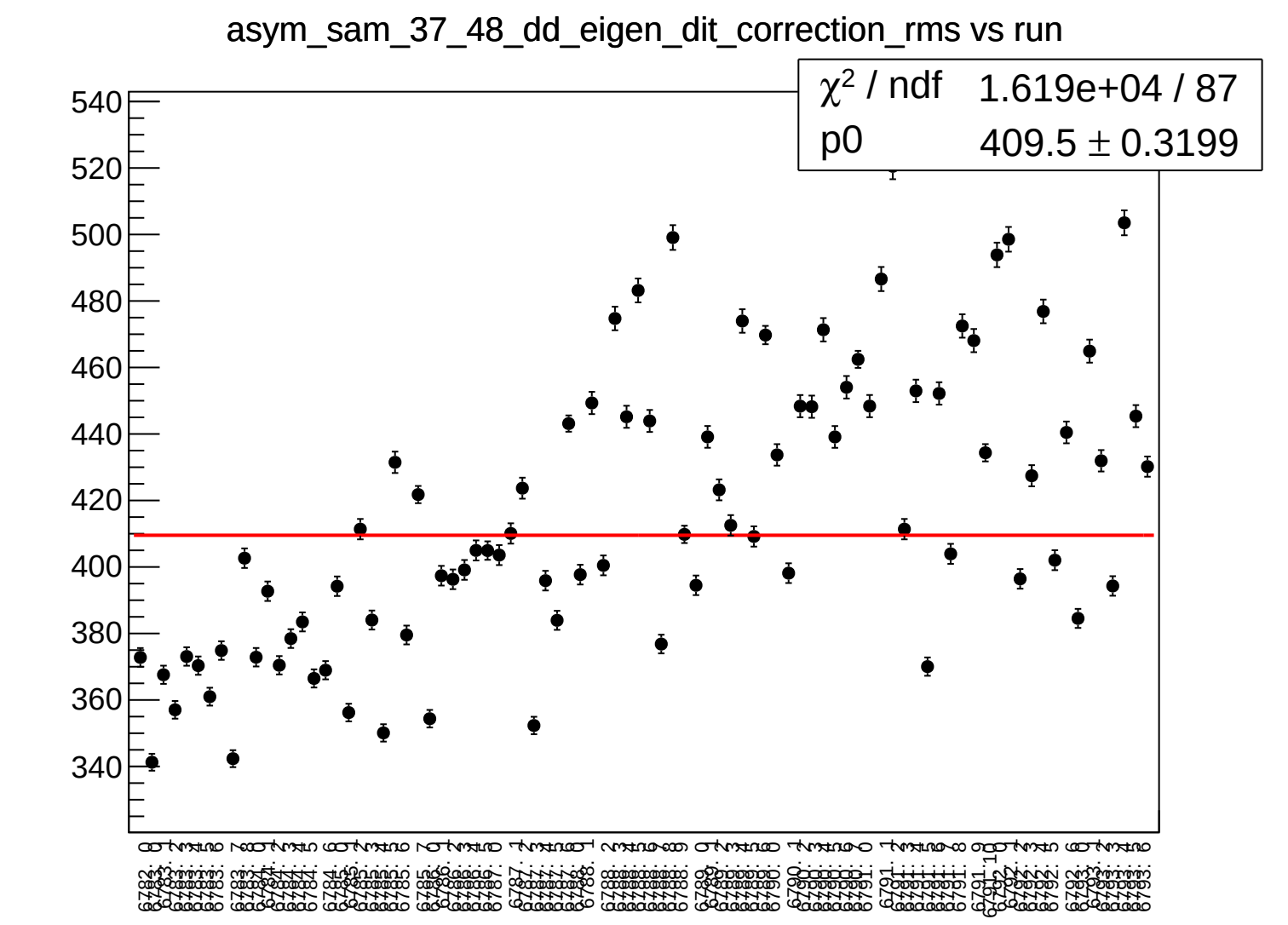

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 65.19 / 87
p0 269 ± 89.76
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −253
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

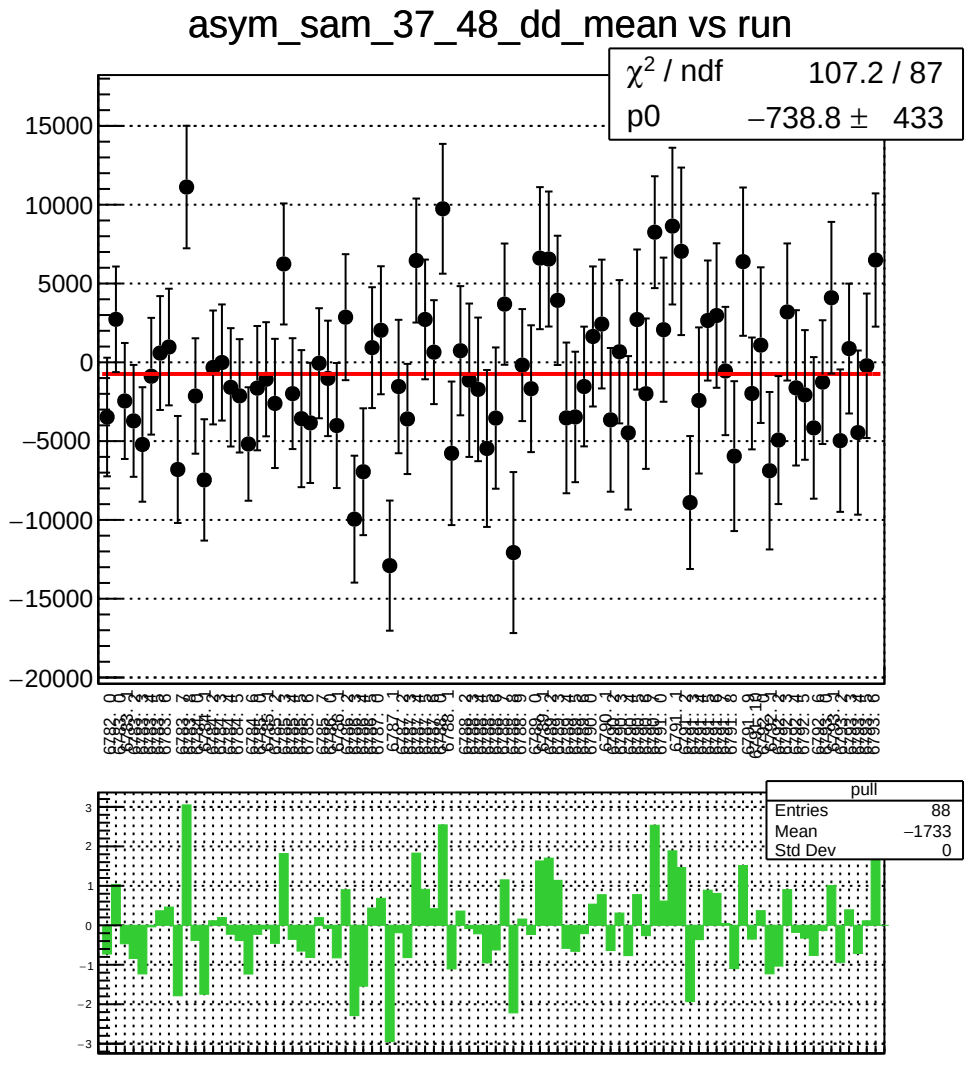

pull1D
Entries 88
Mean 0.01051
Std Dev 0.8607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

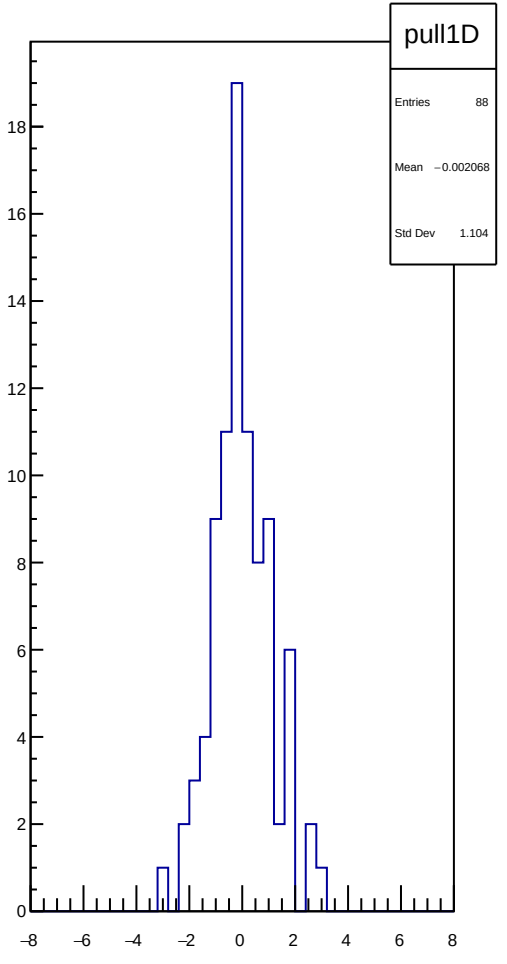

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 902.5 / 87
p0 81.63 ± 0.06347
88
86
84
82
80
78
76

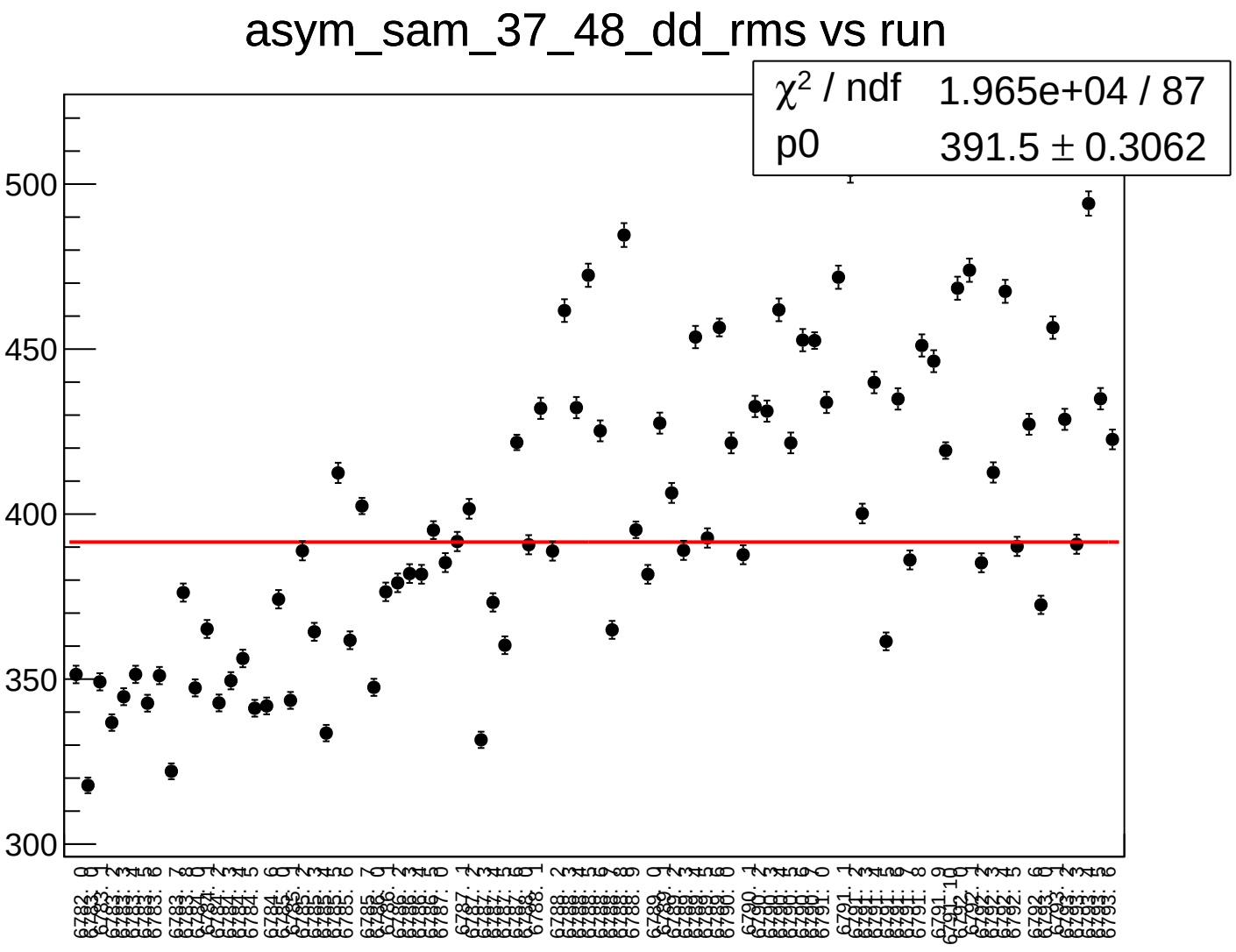

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.9 / 87
p0 1021 ± 452.4
pull
Entries 88
Mean −1539
Std Dev 0

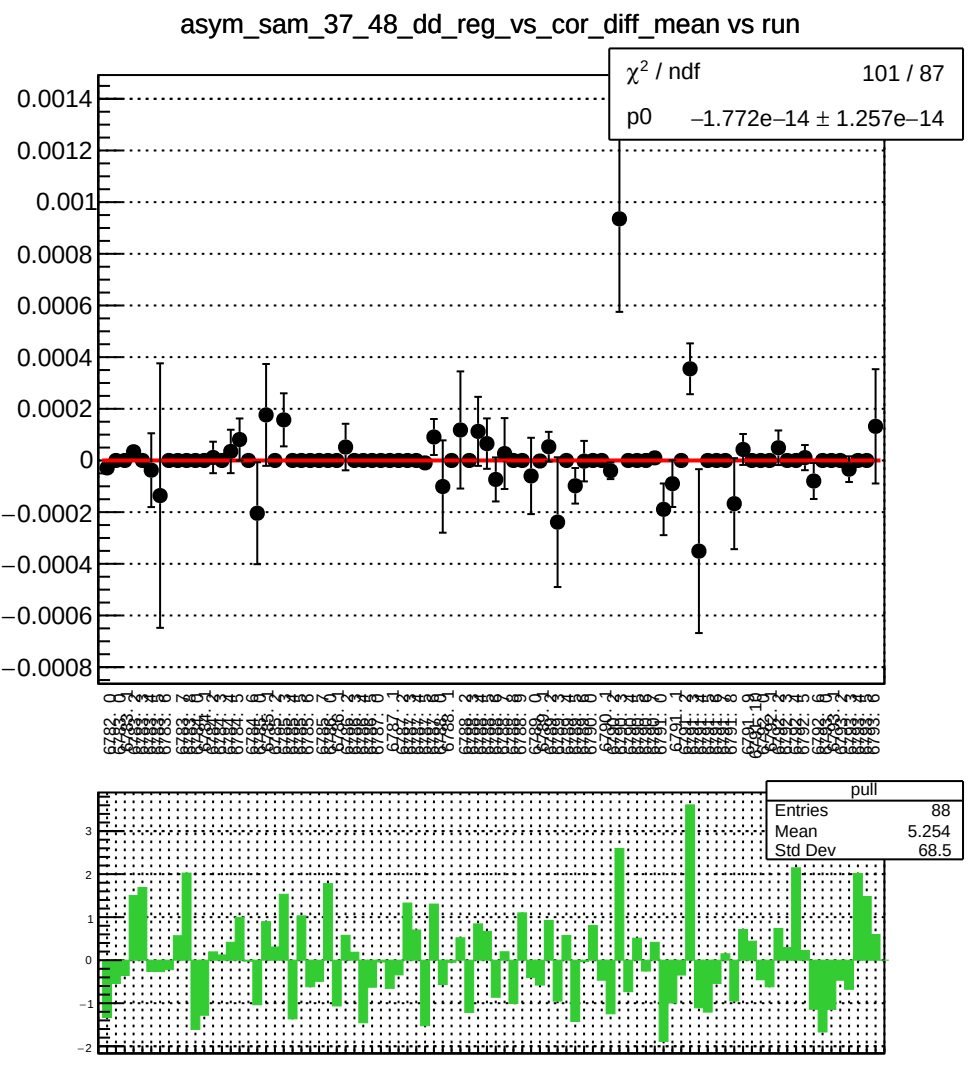

pull1D
Entries 88
Mean 0.002631
Std Dev 1.087

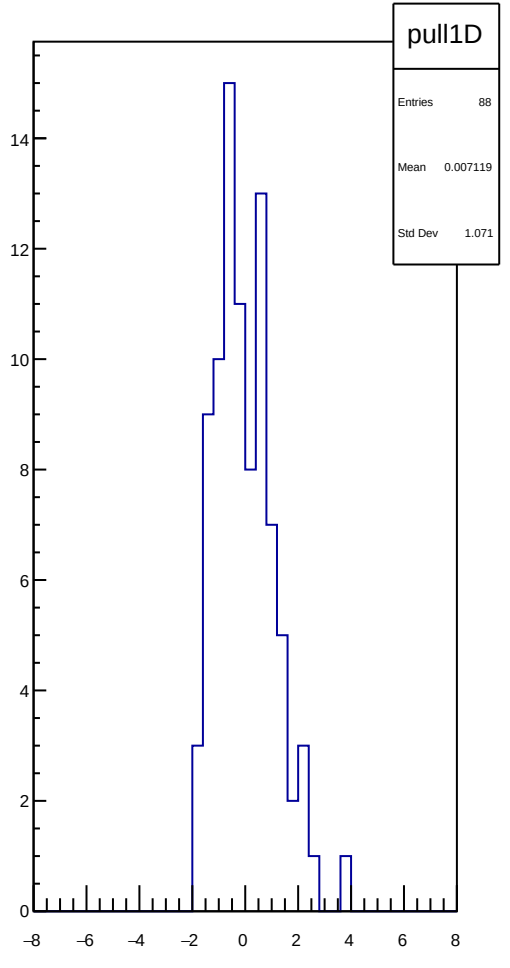

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.619e+04 / 87
p0 409.5 ± 0.3199
540
520
500
480
460
440
420
400
380
360
340

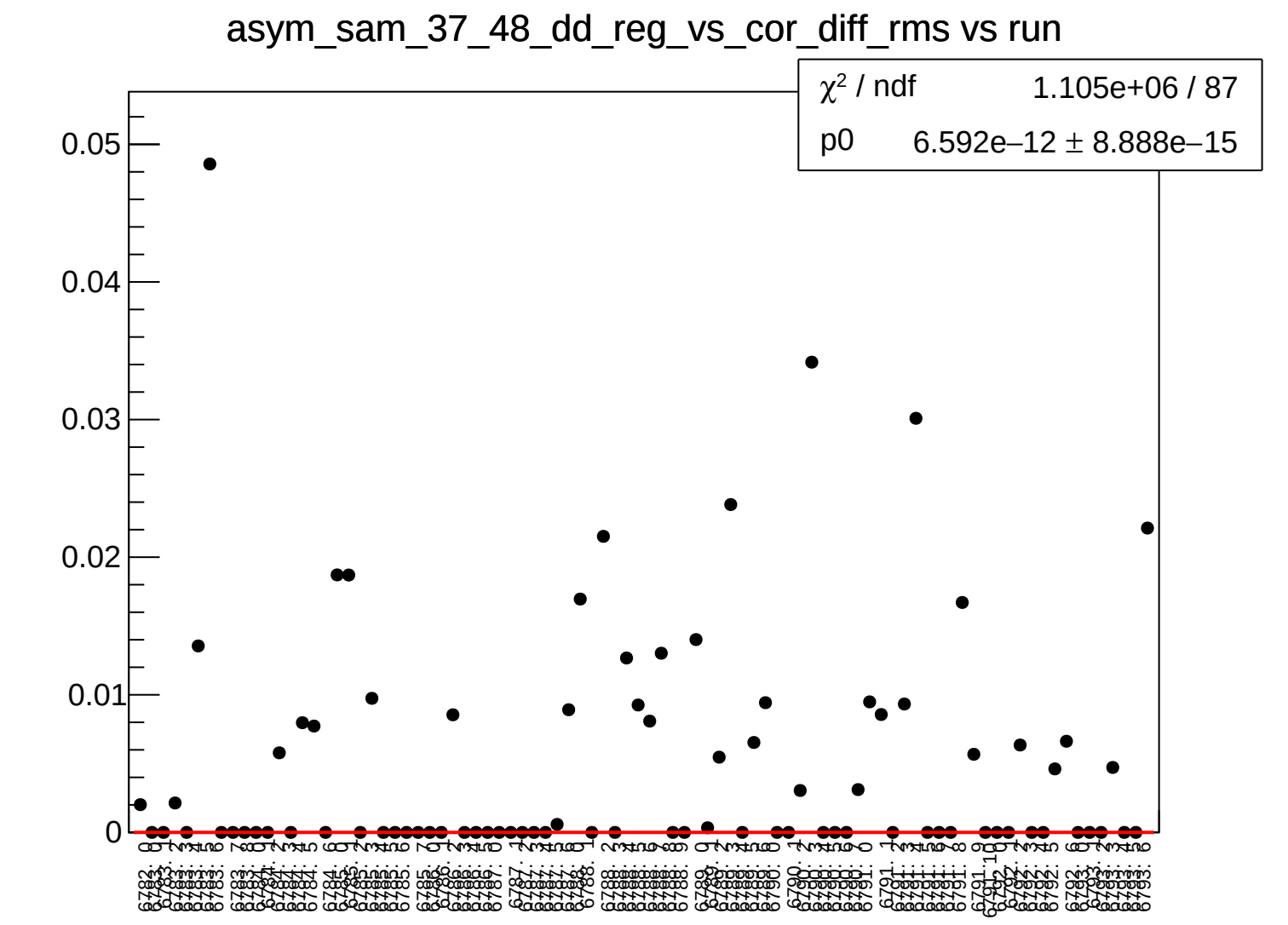

asym_sam_37_48_dd_mean vs run
χ² / ndf 107.2 / 87
p0 −738.8 ± 433
pull
Entries 88
Mean −1733
Std Dev 0

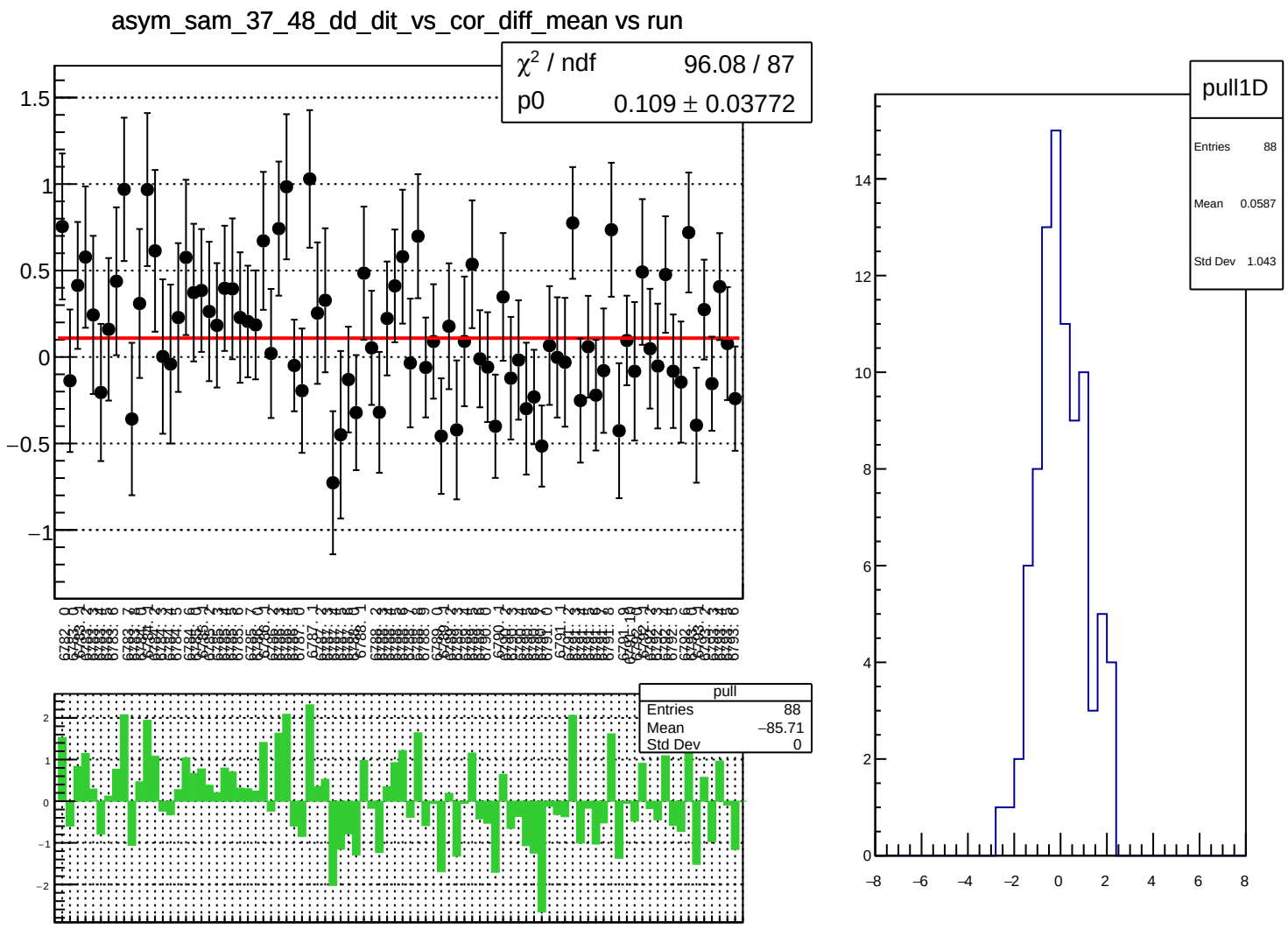

pull1D
Entries 88
Mean −0.002068
Std Dev 1.104

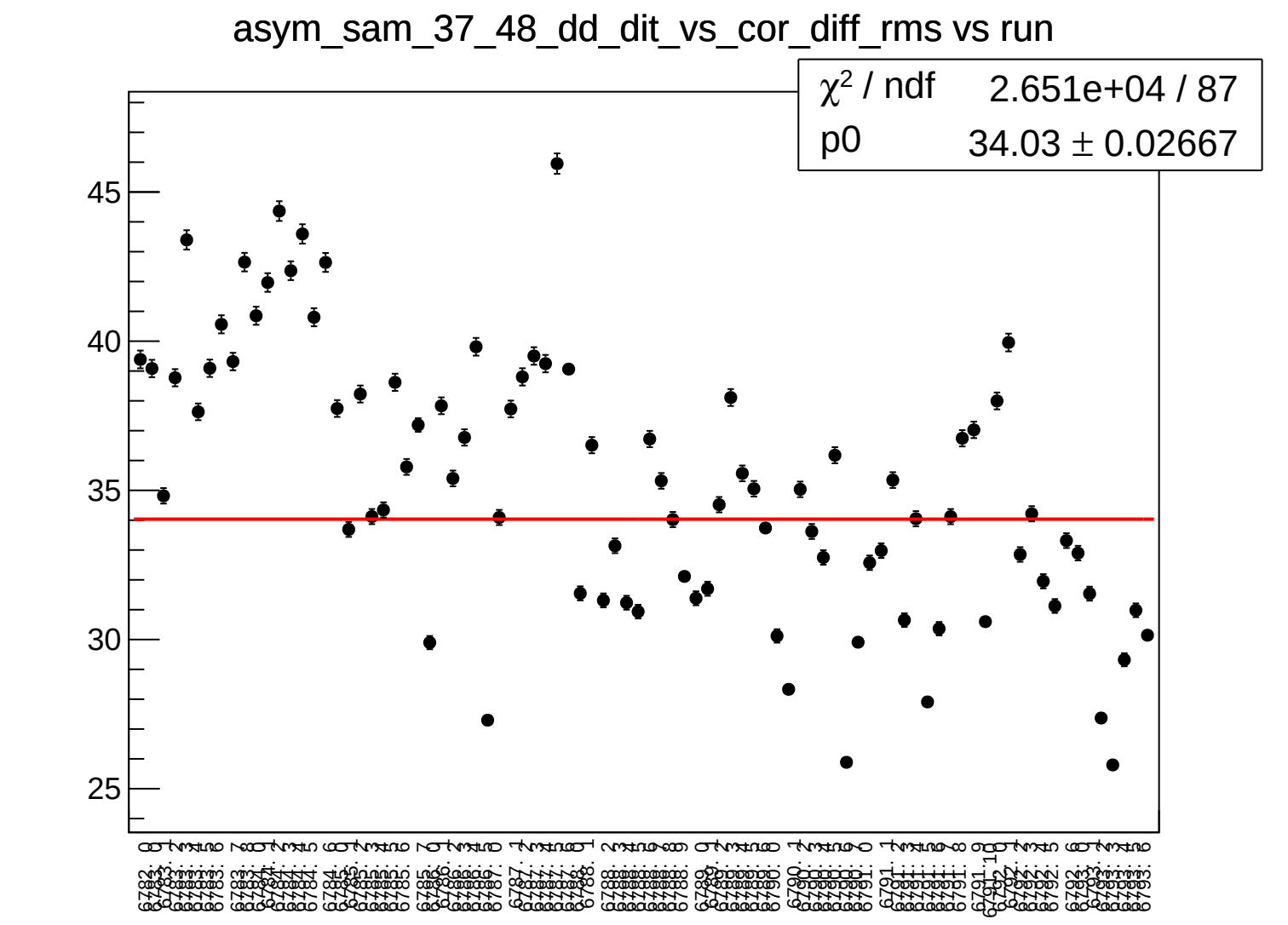

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.965e+04 / 87
p0 391.5 ± 0.3062
500
450
400
350
300

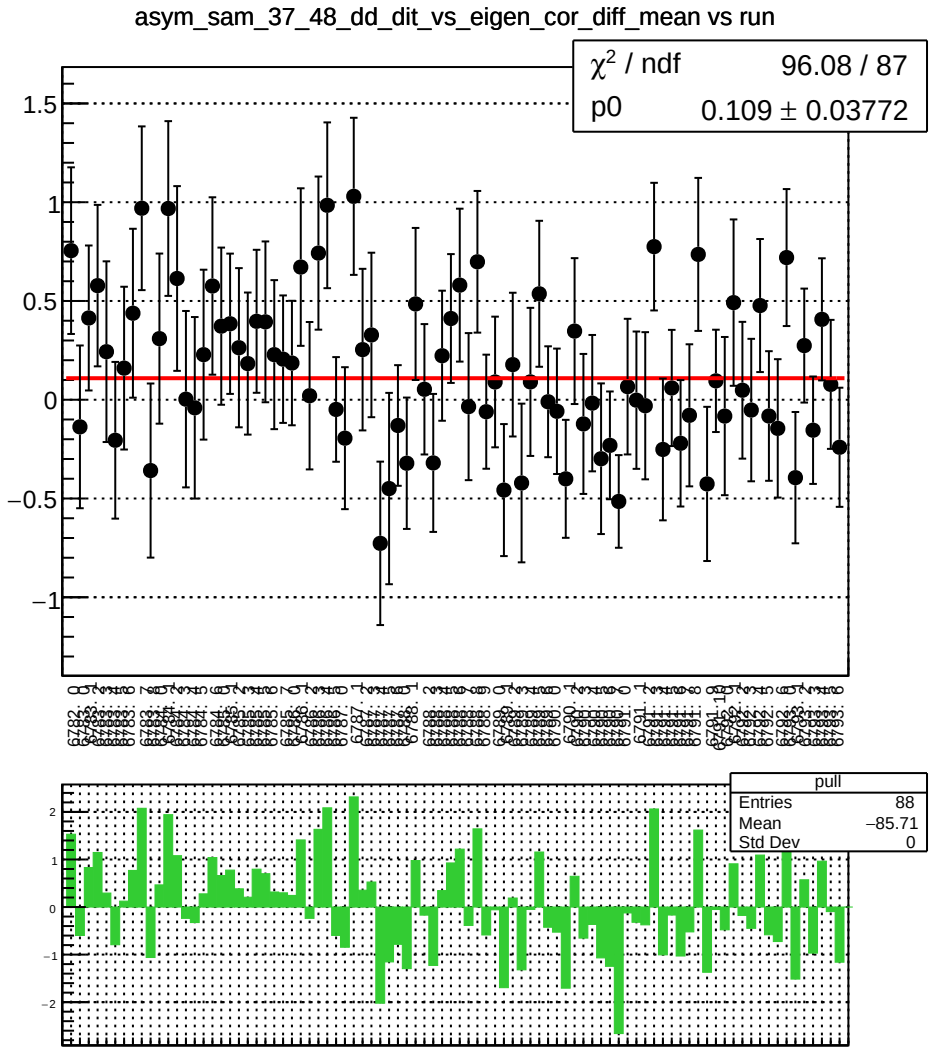

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 87
p0 −1.772e−14 ± 1.257e−14
pull
Entries 88
Mean 5.254
Std Dev 68.5

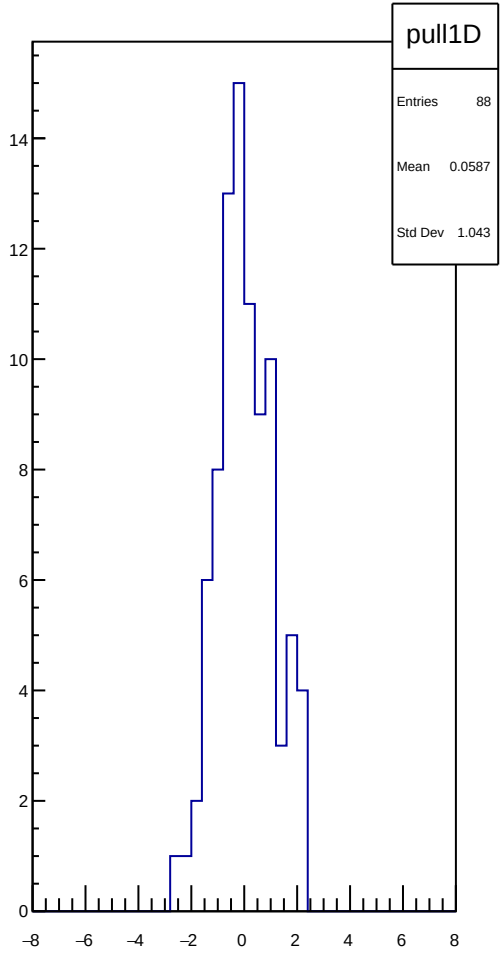

pull1D
Entries 88
Mean 0.007119
Std Dev 1.071

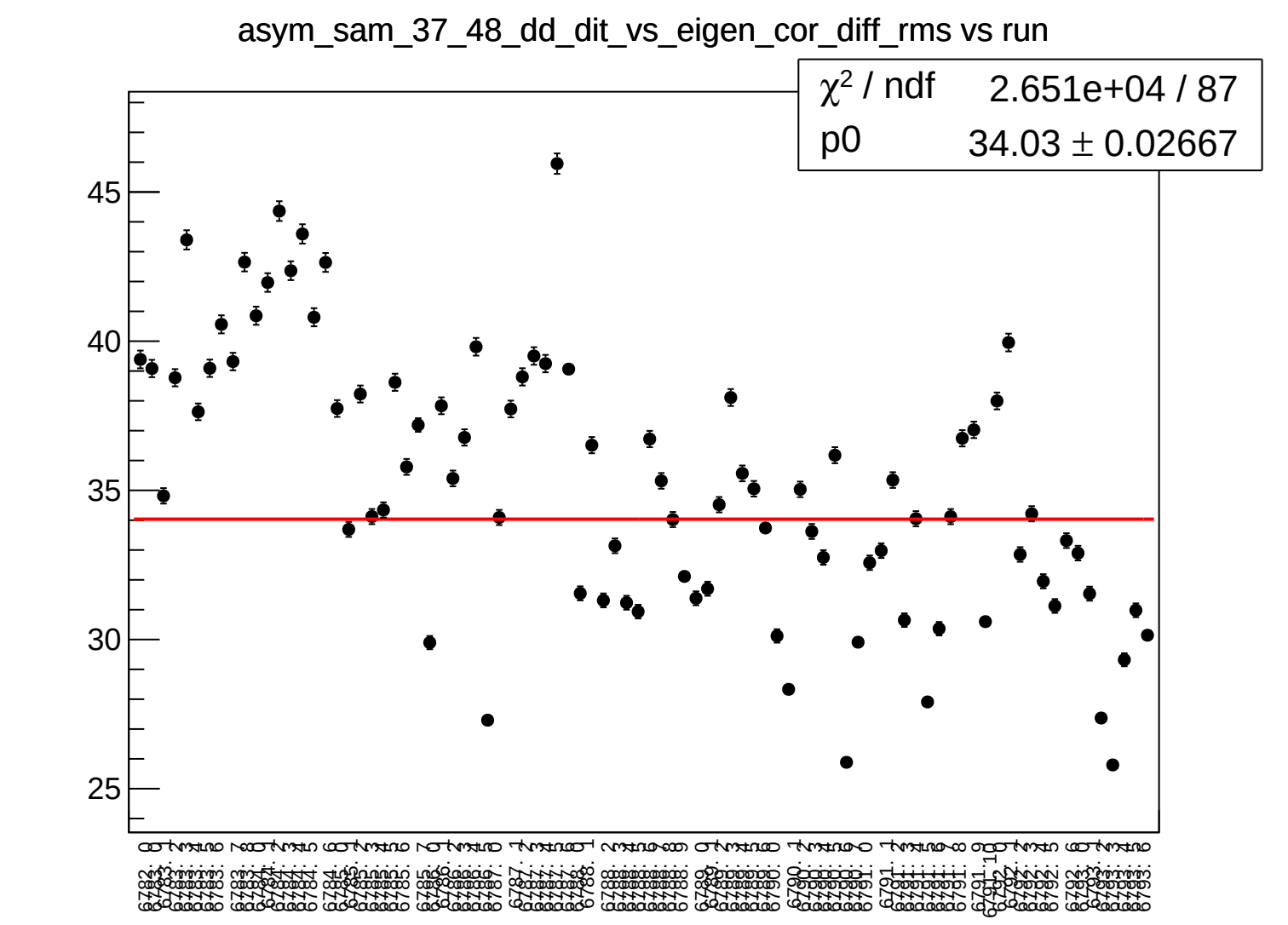

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 87
p0 6.592e−12 ± 8.888e−15
0.05
0.04
0.03
0.02
0.01
0

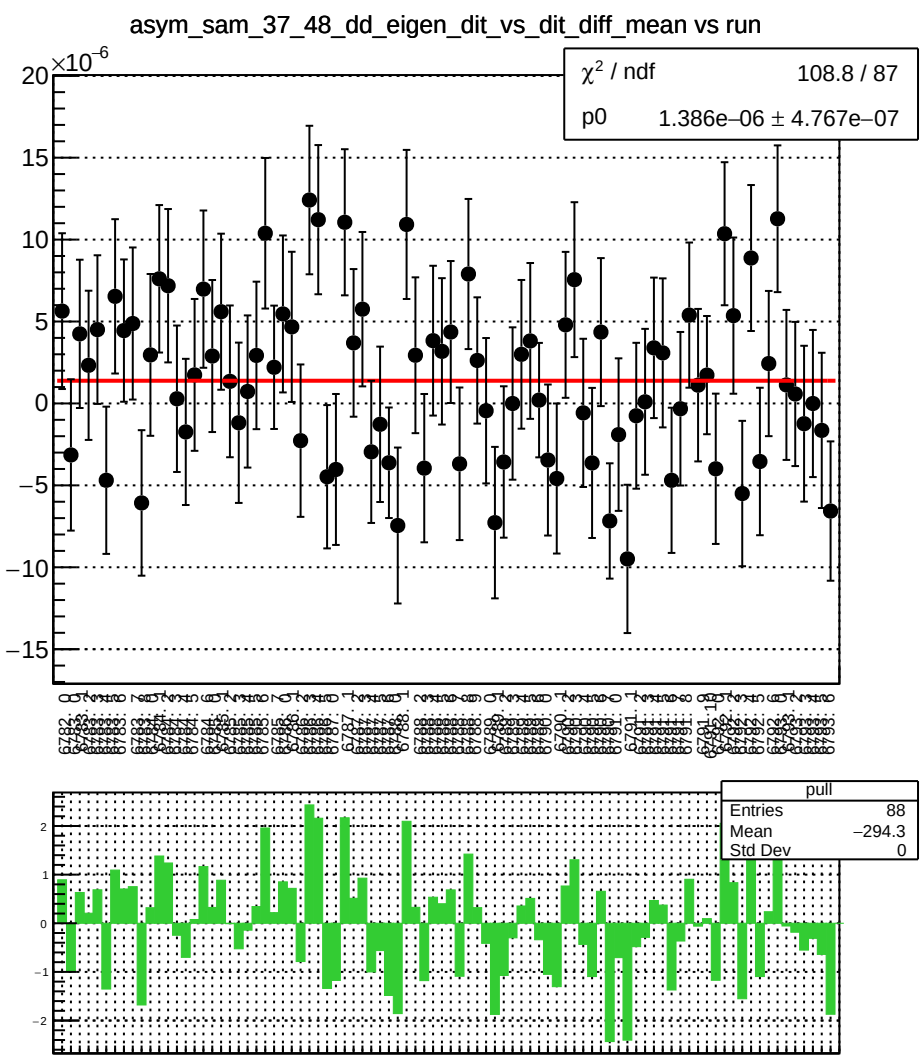

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 0.109 ± 0.03772
pull
Entries 88
Mean −85.71
Std Dev 0
pull1D
Entries 88
Mean 0.0587
Std Dev 1.043

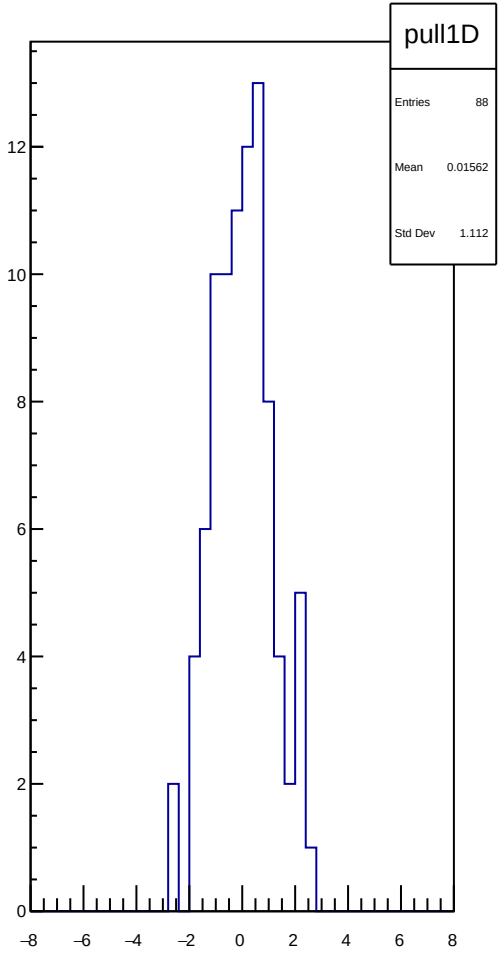

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.651e+04 / 87
p0 34.03 ± 0.02667
45
40
35
30
25

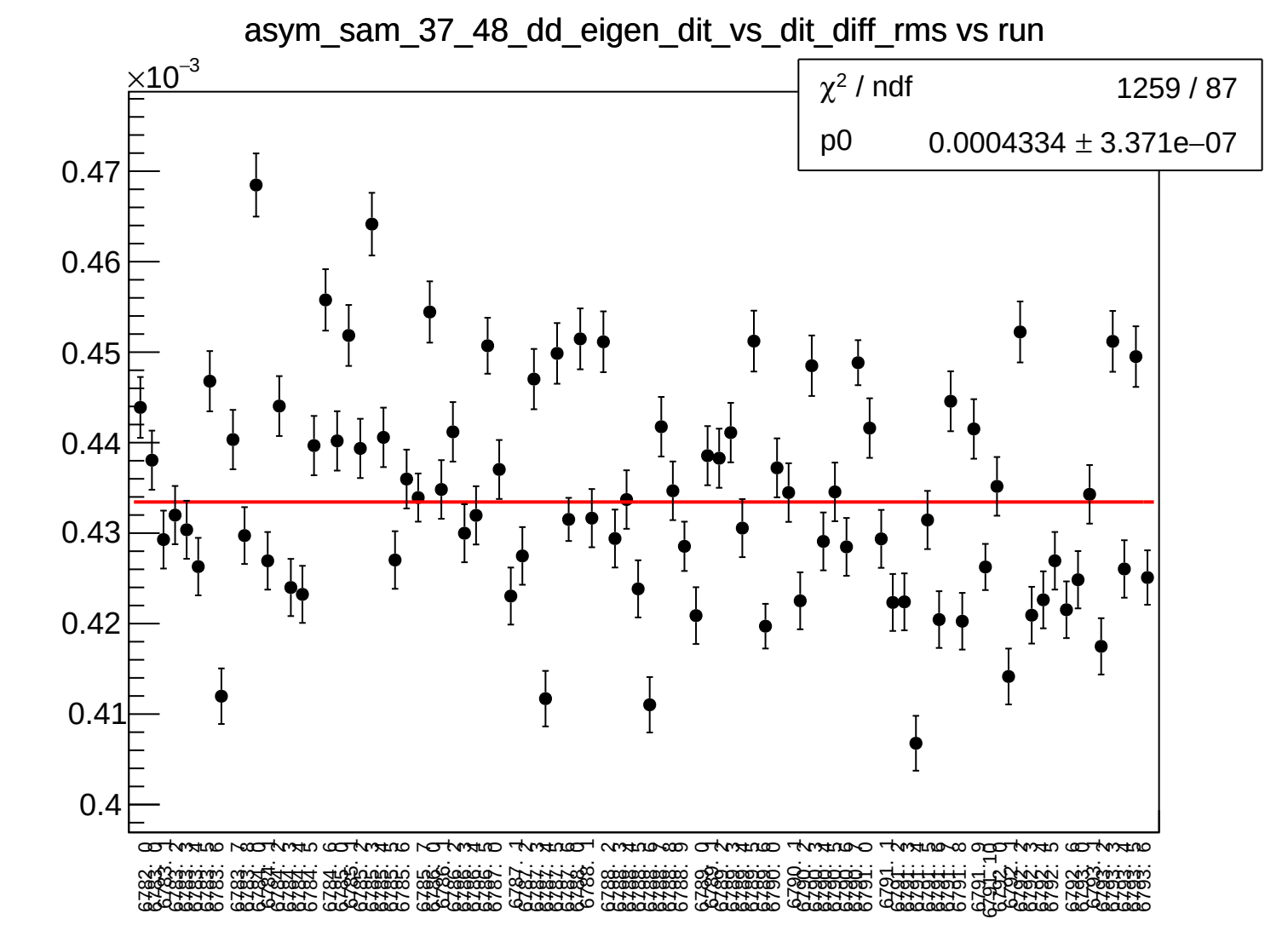

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 0.109 ± 0.03772
pull
Entries 88
Mean −85.71
Std Dev 0

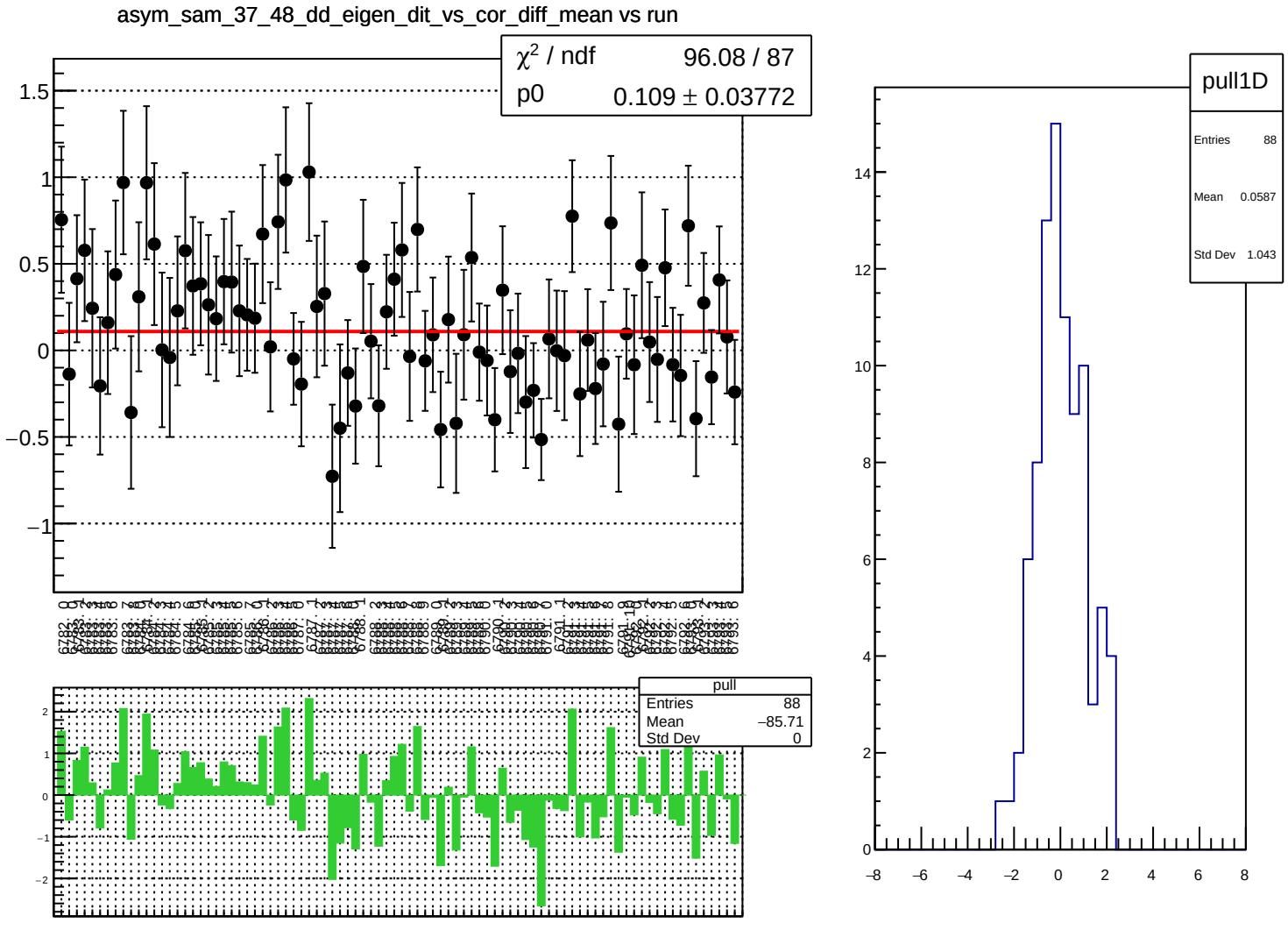

pull1D
Entries 88
Mean 0.0587
Std Dev 1.043

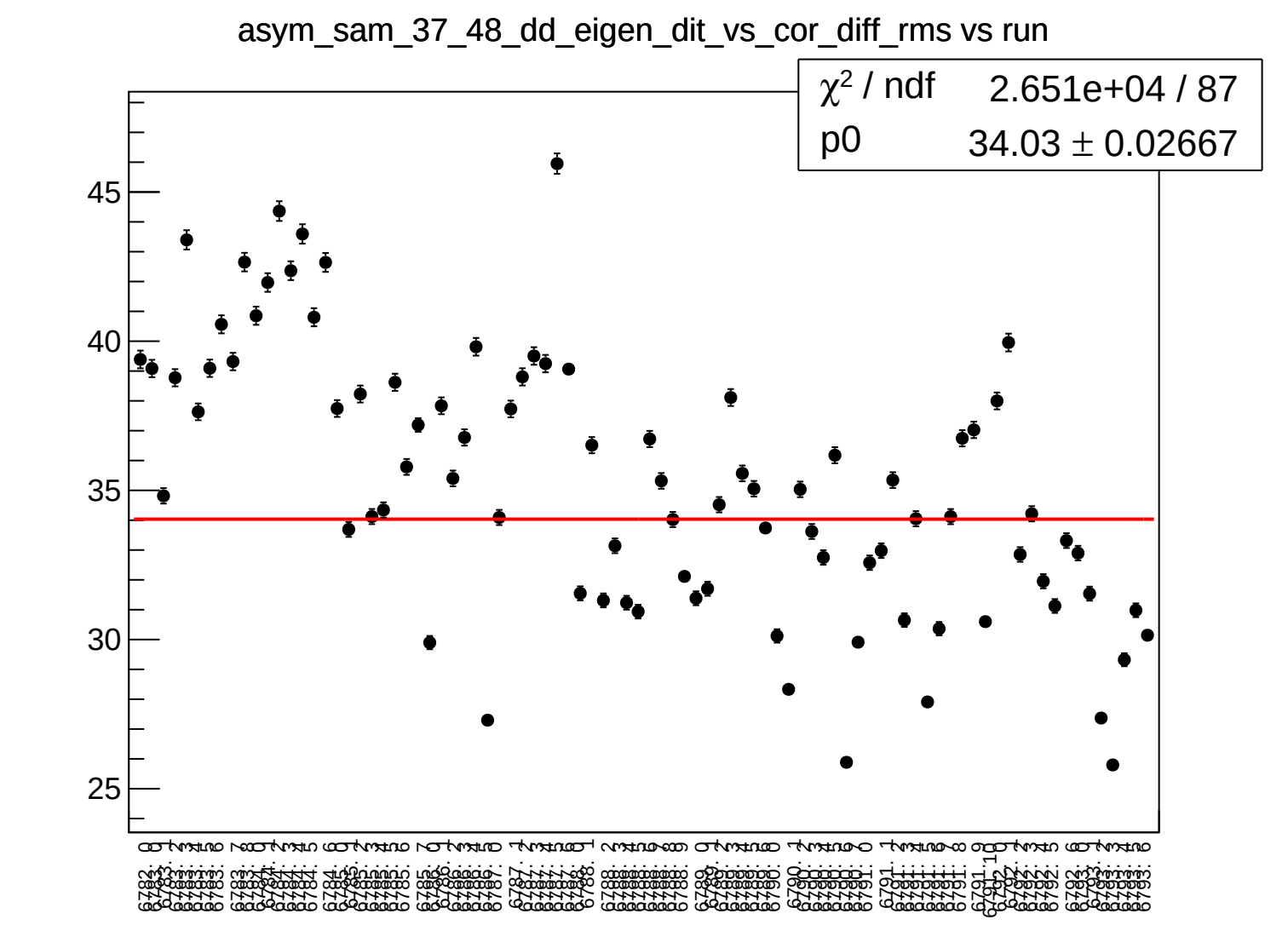

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.651e+04 / 87
p0 34.03 ± 0.02667
45
40
35
30
25

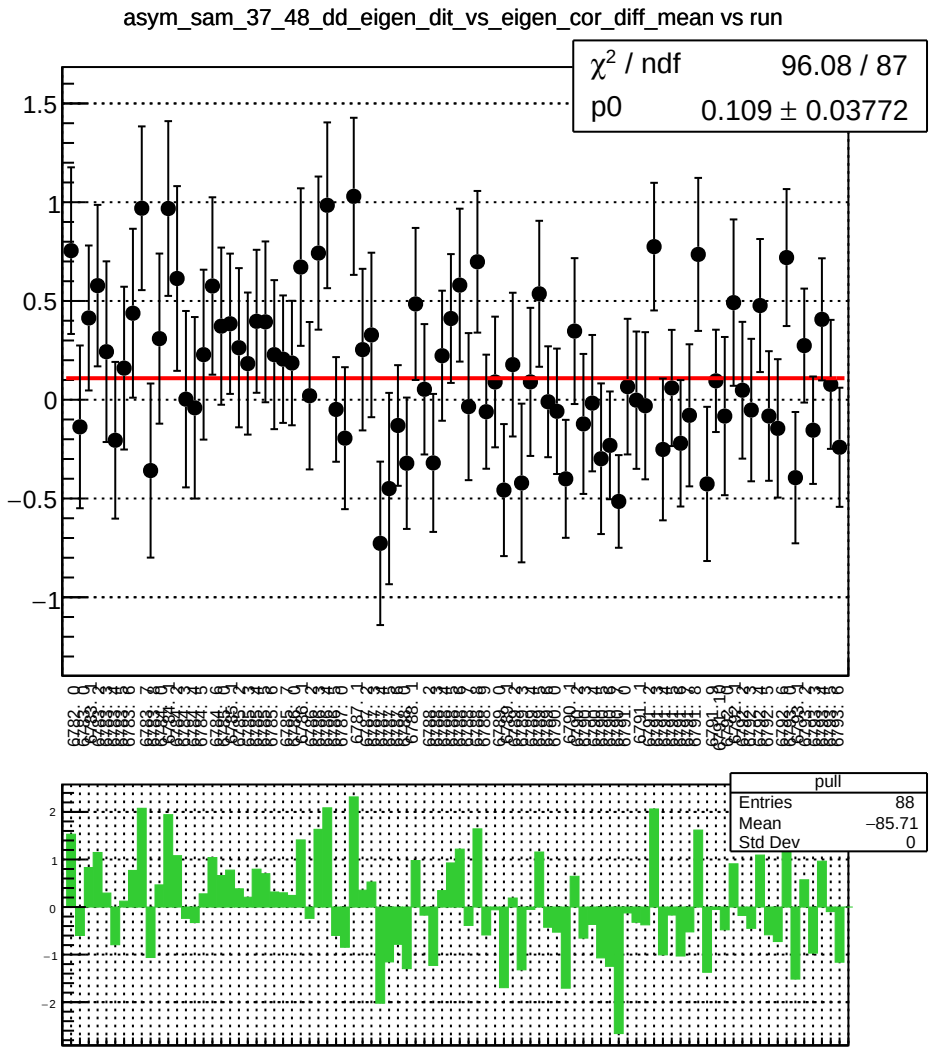

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 108.8 / 87
p0 1.386e−06 ± 4.767e−07
×10⁻⁶
pull
Entries 88
Mean −294.3
Std Dev 0

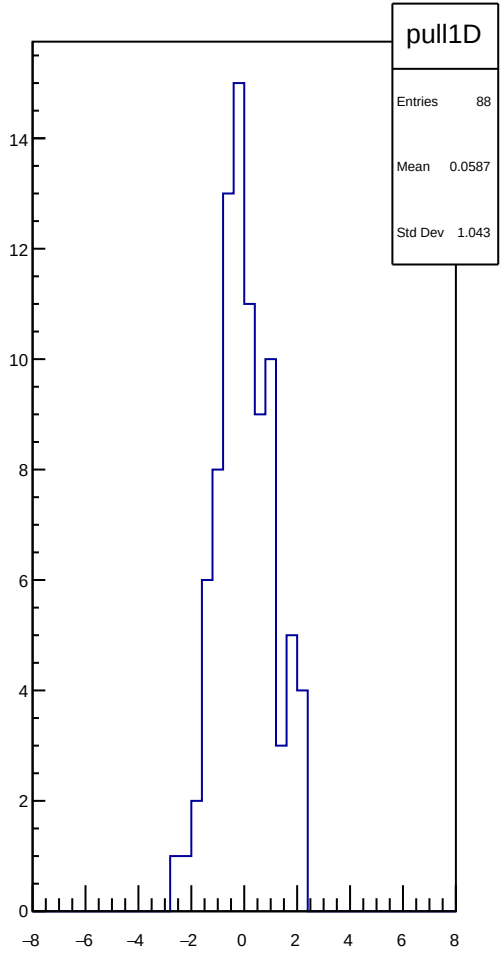

pull1D
Entries 88
Mean 0.01562
Std Dev 1.112

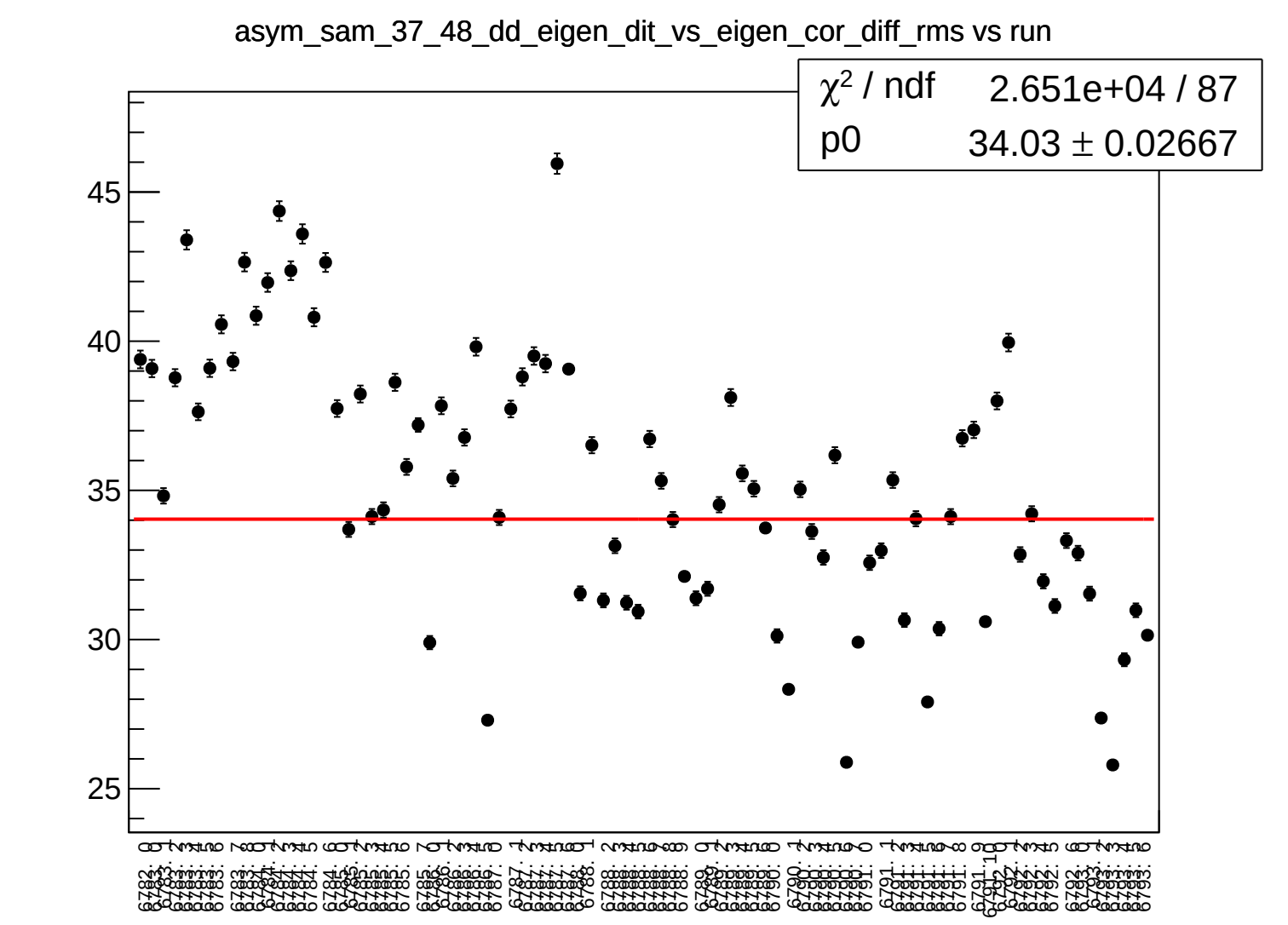

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1259 / 87
p0 0.0004334 ± 3.371e−07
0.47
0.46
0.45
0.44
0.43
0.42
0.41
0.4

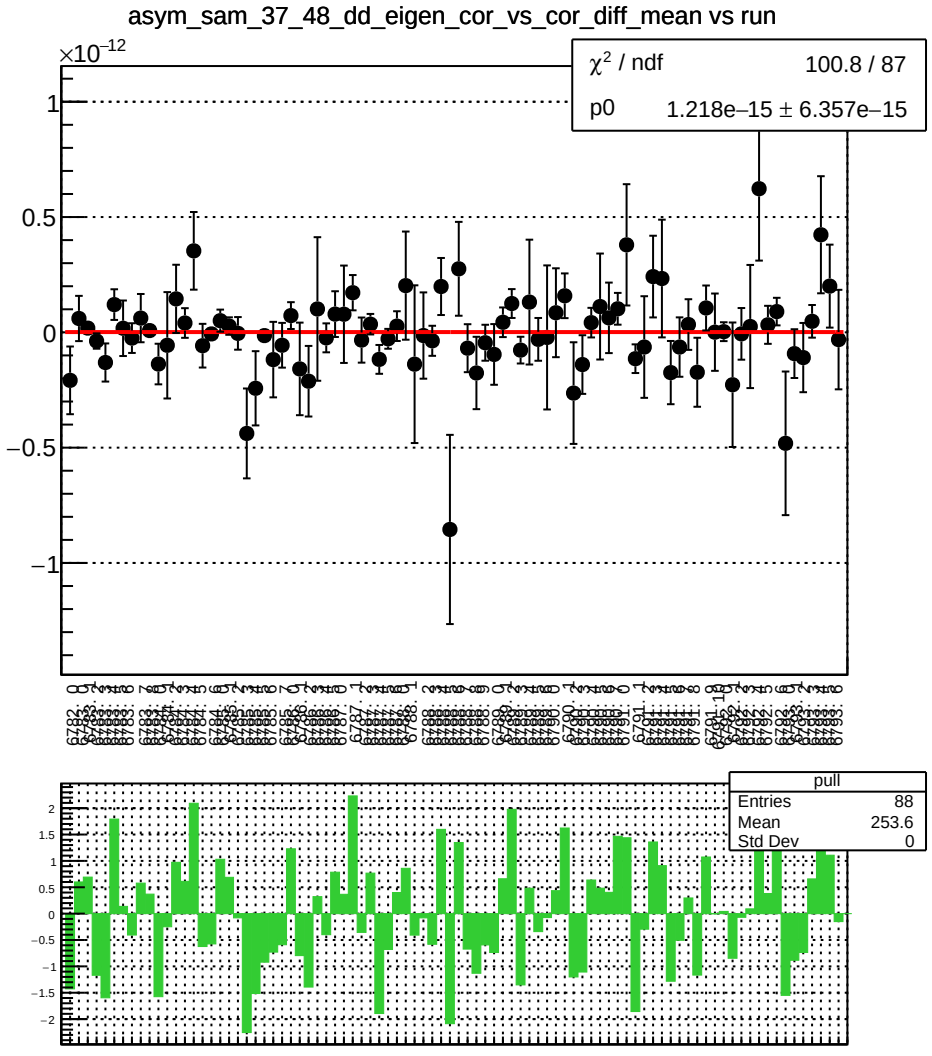

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 0.109 ± 0.03772
pull
Entries 88
Mean −85.71
Std Dev 0
pull1D
Entries 88
Mean 0.0587
Std Dev 1.043

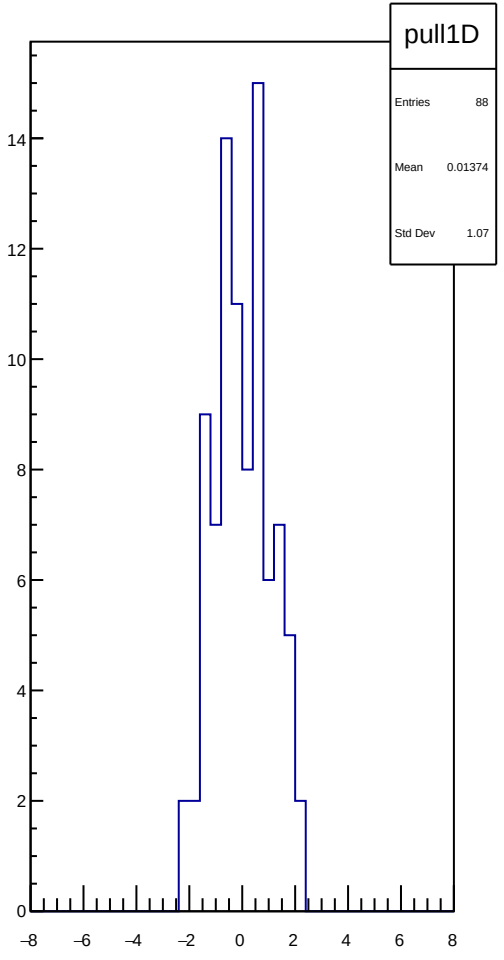

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.651e+04 / 87
p0 34.03 ± 0.02667
45
40
35
30
25

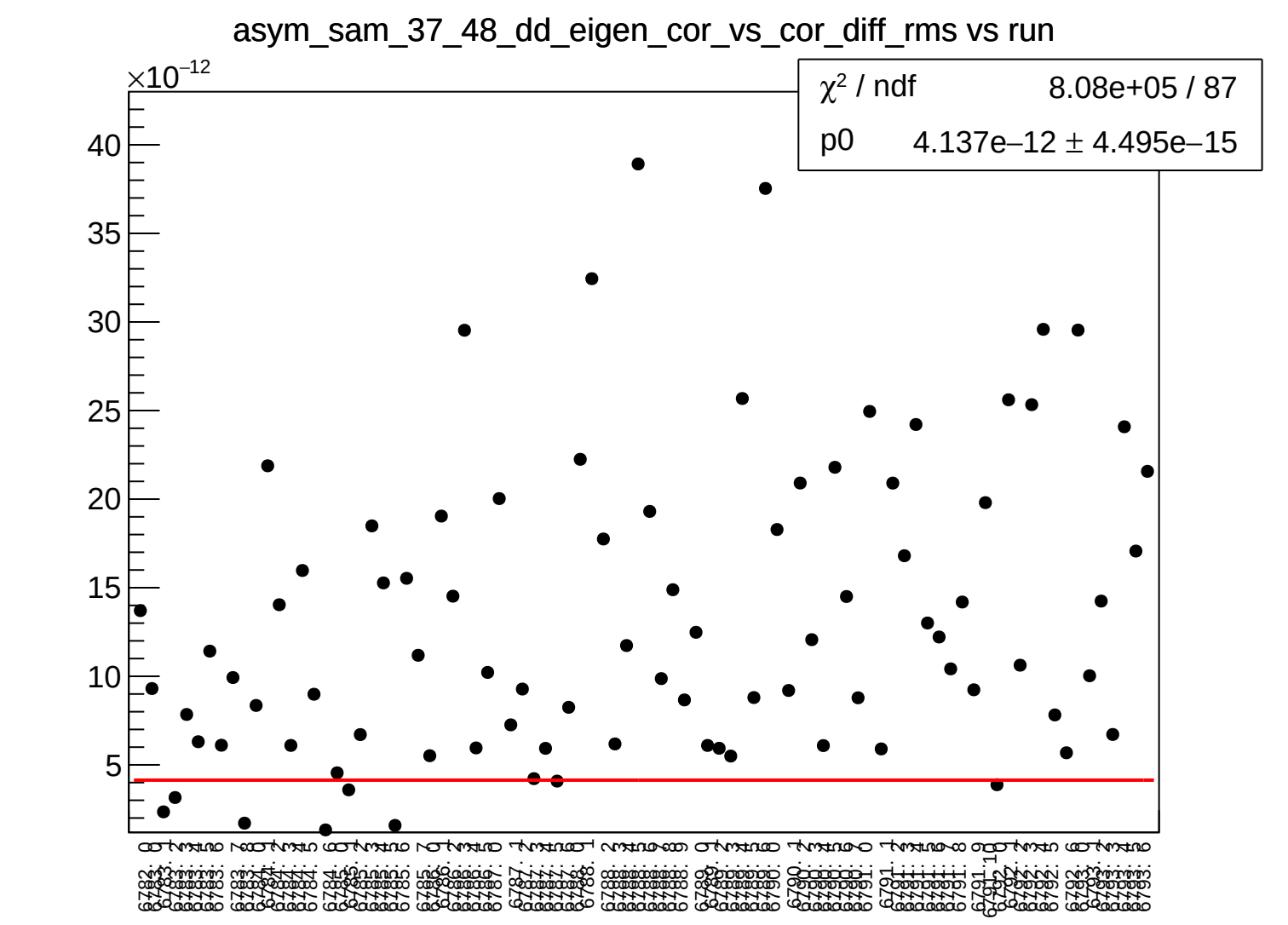

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.08 / 87
p0 0.109 ± 0.03772
pull
Entries 88
Mean −85.71
Std Dev 0

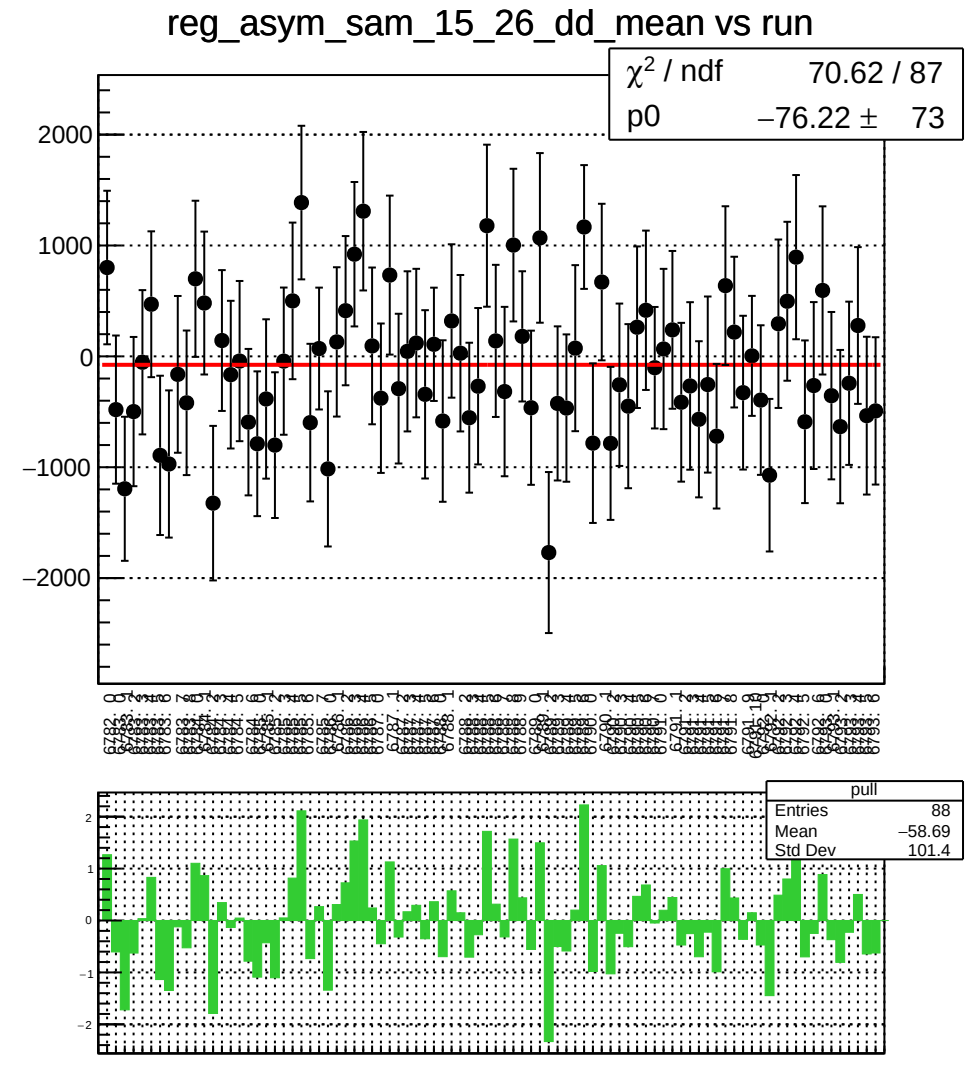

pull1D
Entries 88
Mean 0.0587
Std Dev 1.043

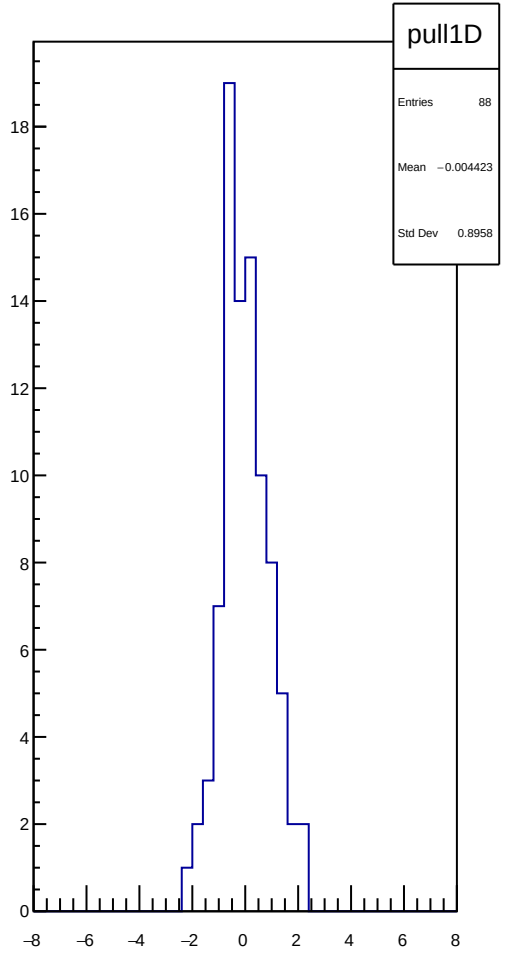

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.651e+04 / 87
p0 34.03 ± 0.02667
45
40
35
30
25

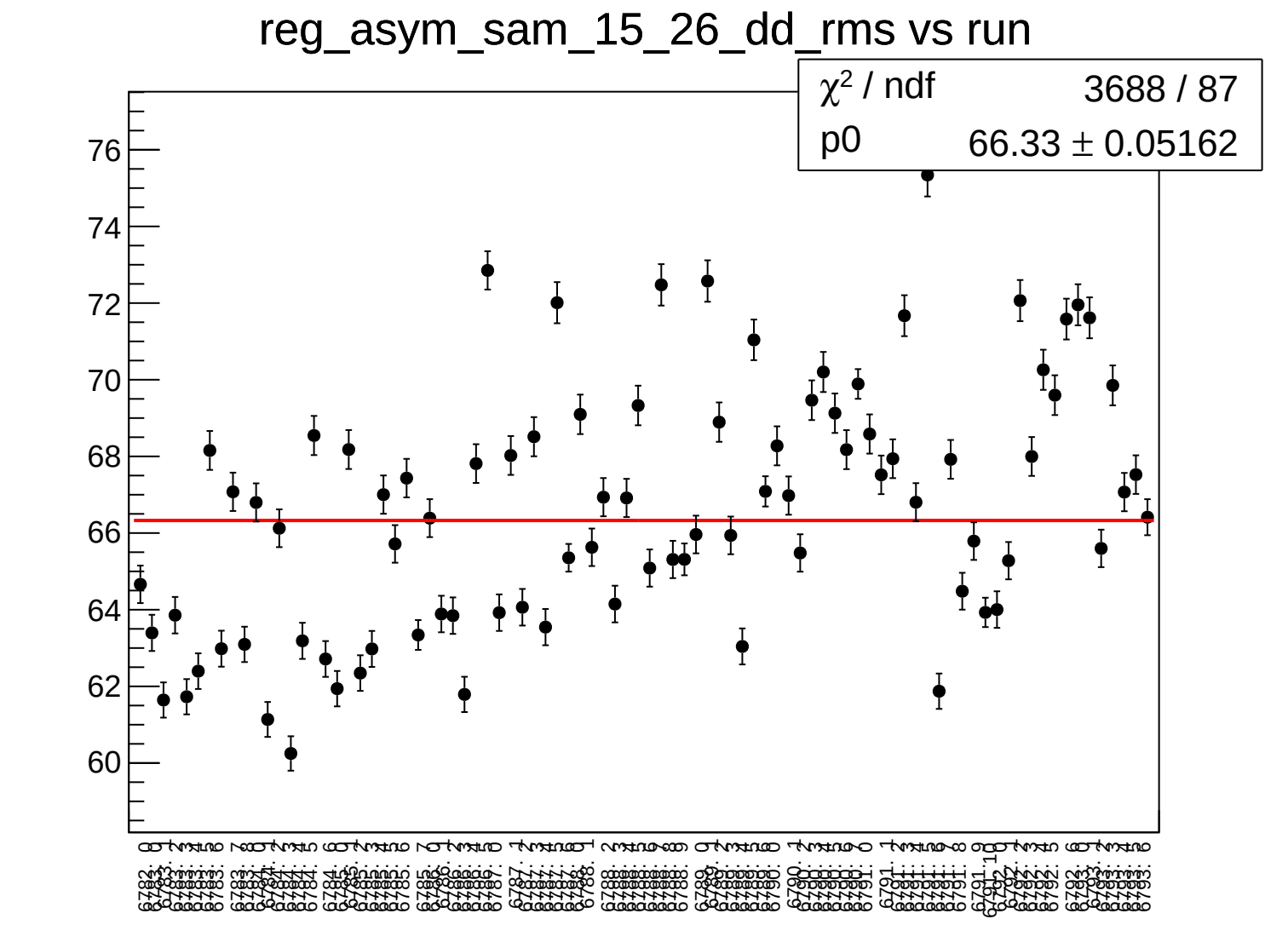

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.8 / 87
p0 1.218e−15 ± 6.357e−15
pull
Entries 88
Mean 253.6
Std Dev 0

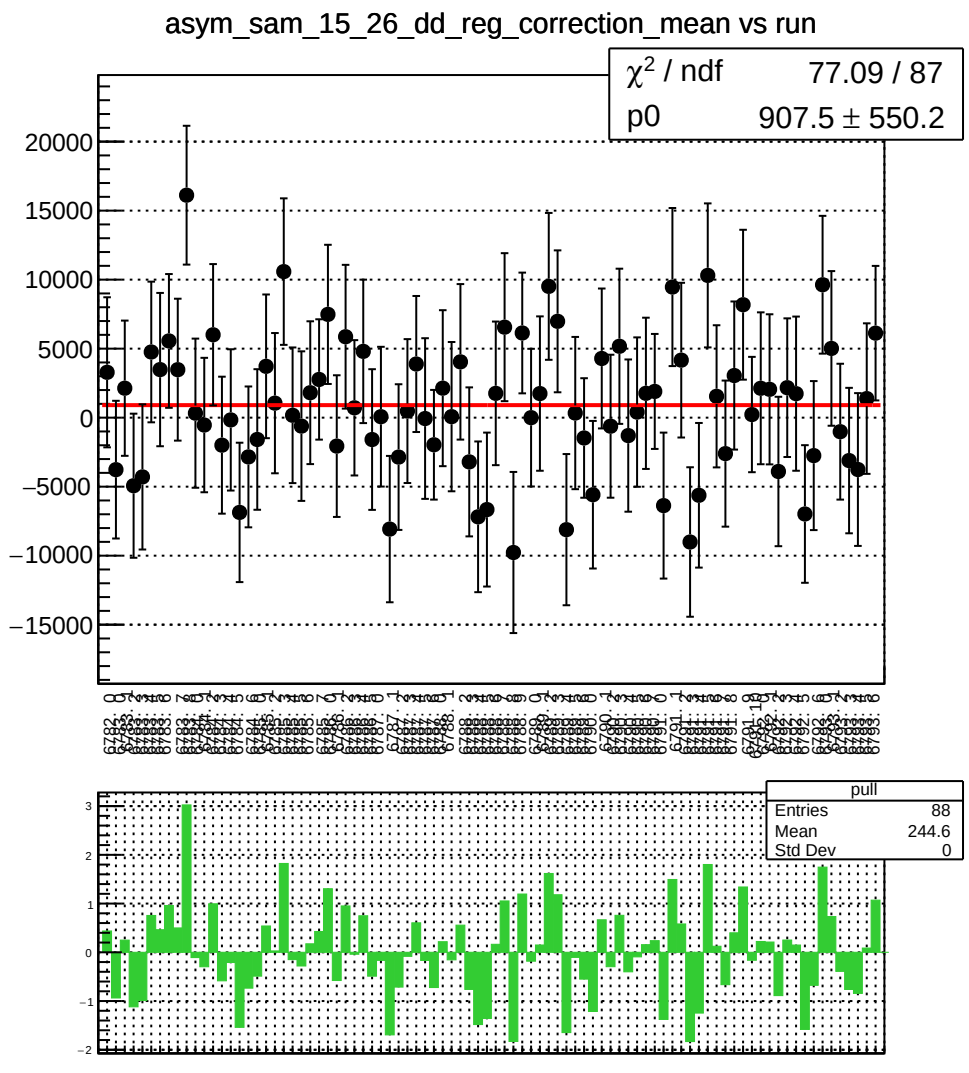

pull1D
Entries 88
Mean 0.01374
Std Dev 1.07

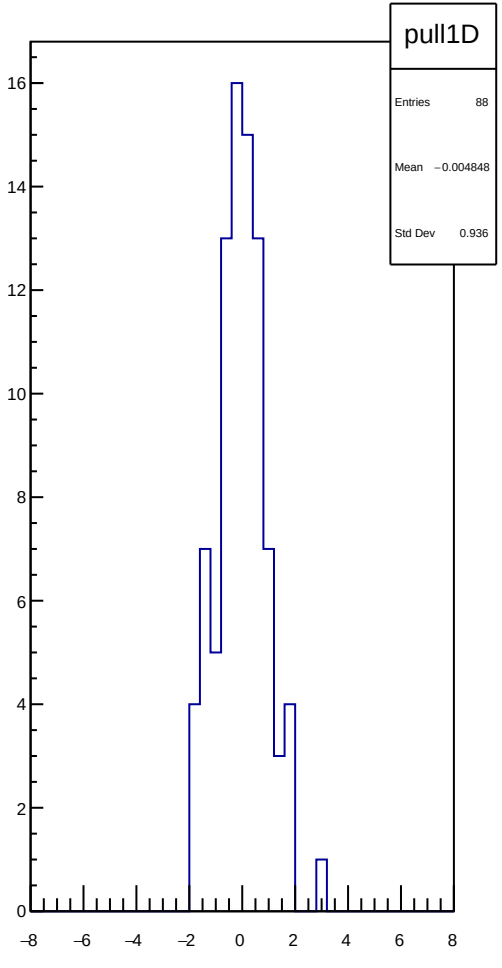

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.08e+05 / 87
p0 4.137e−12 ± 4.495e−15
40
35
30
25
20
15
10
5

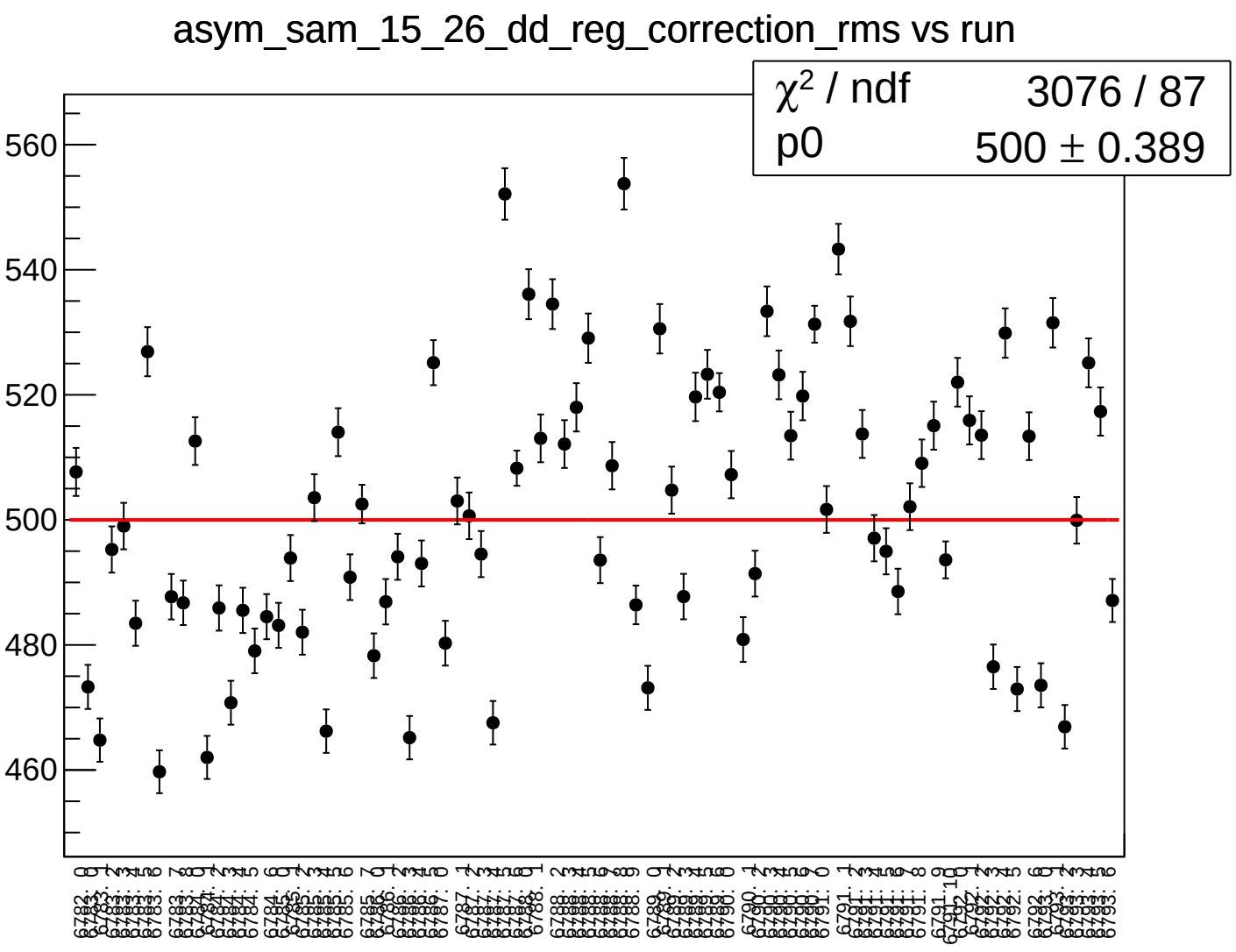

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 70.62 / 87
p0 −76.22 ± 73
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −58.69
Std Dev 101.4
2
1
0
−1
−2

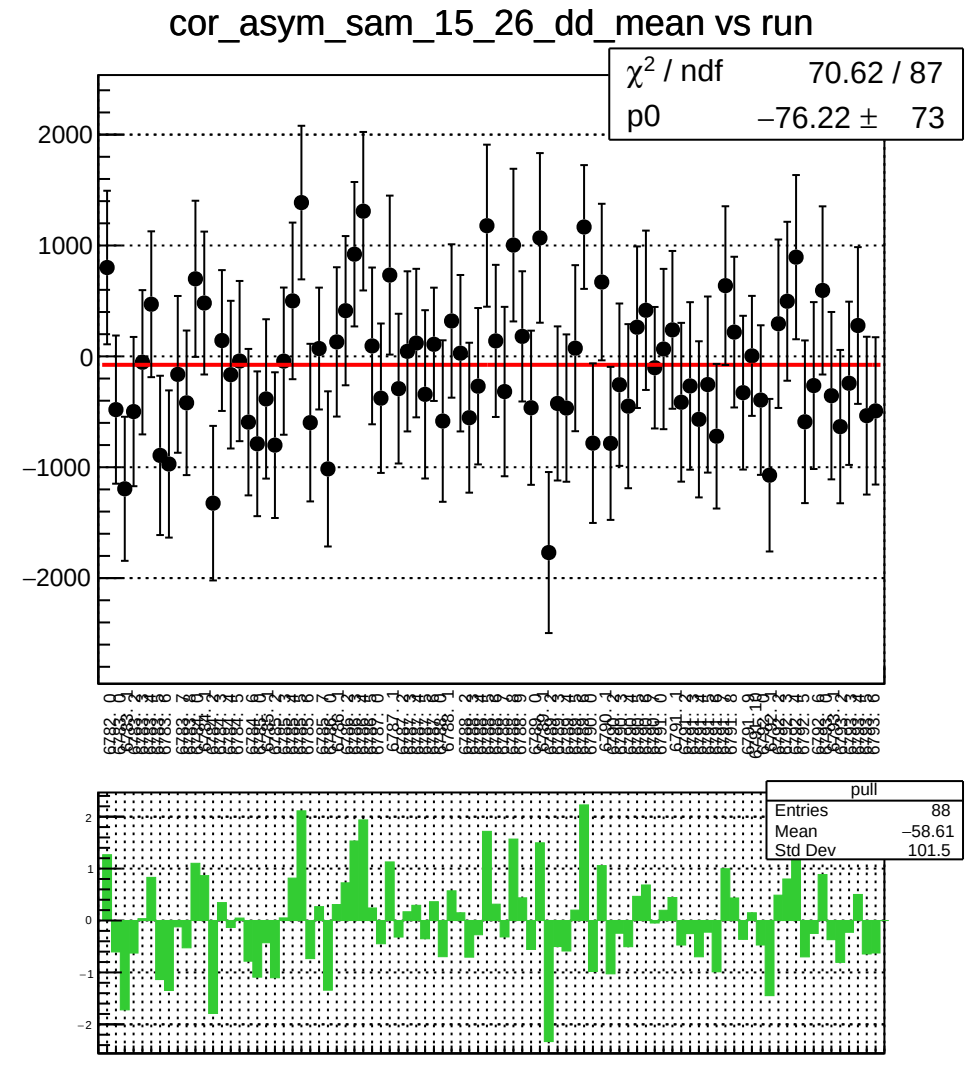

pull1D
Entries 88
Mean −0.004423
Std Dev 0.8958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

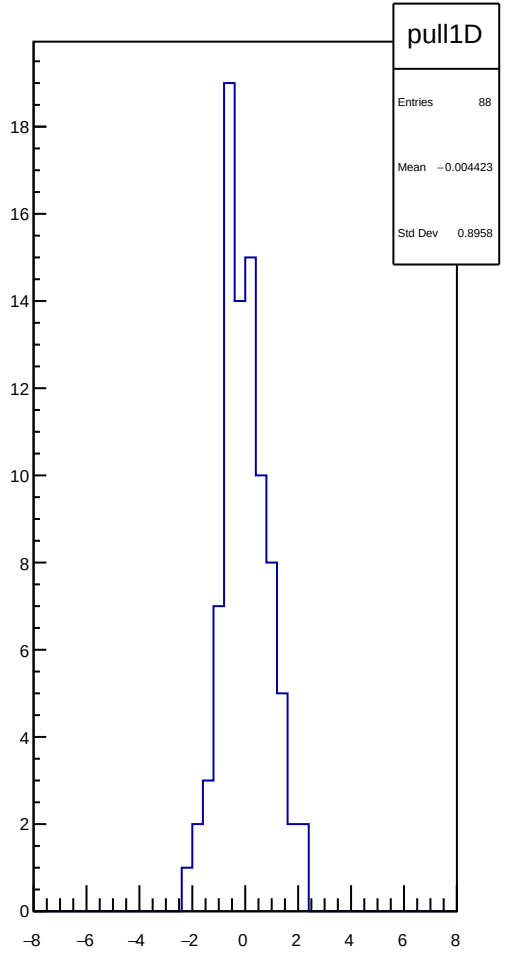

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 3688 / 87
p0 66.33 ± 0.05162
76
74
72
70
68
66
64
62
60

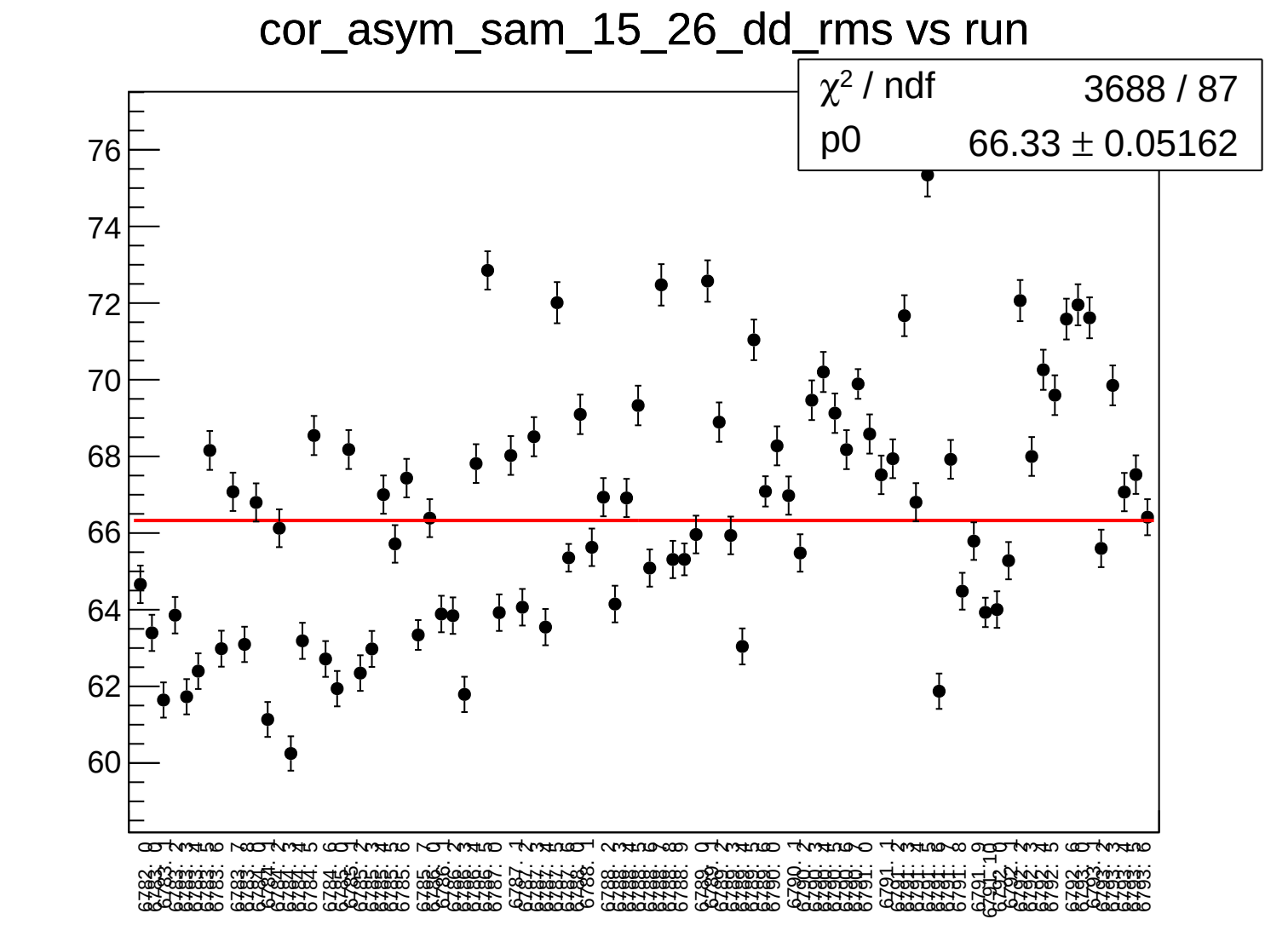

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 77.09 / 87
p0 907.5 ± 550.2
pull
Entries 88
Mean 244.6
Std Dev 0

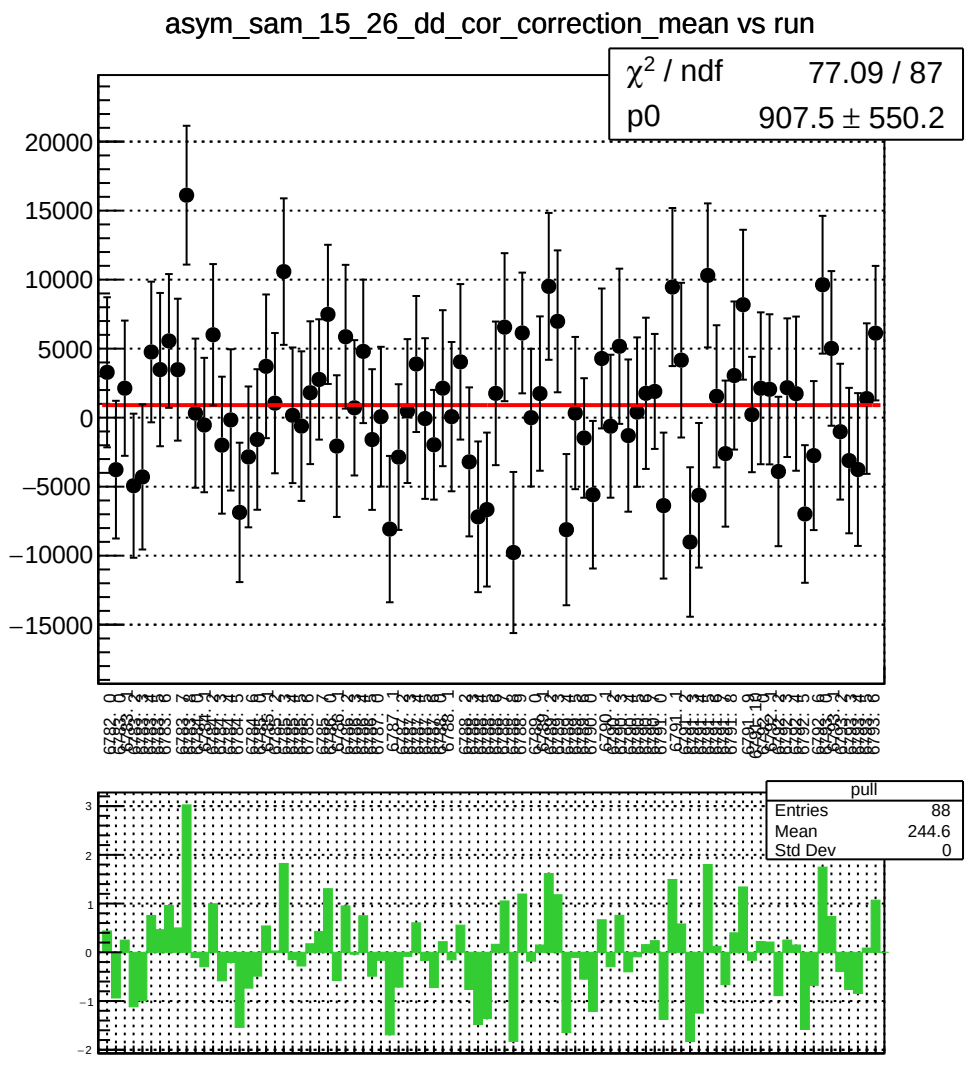

pull1D
Entries 88
Mean −0.004848
Std Dev 0.936

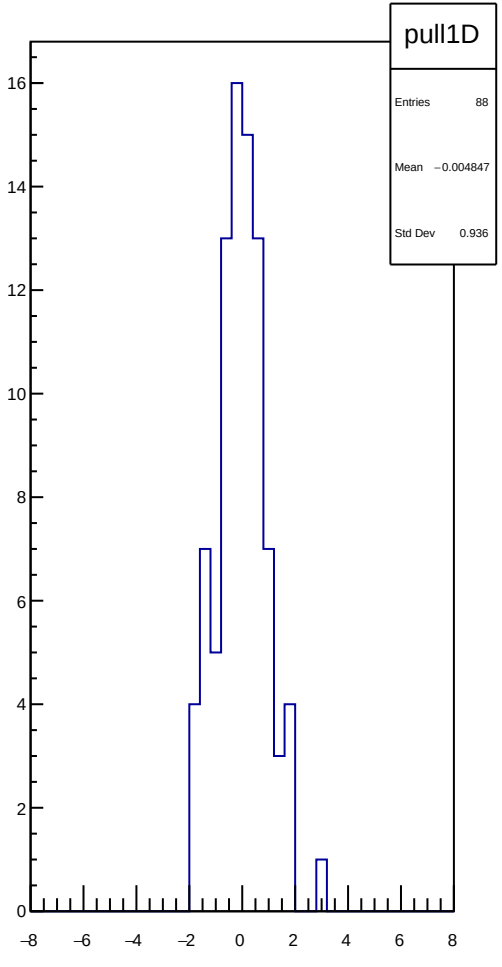

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 3076 / 87
p0 500 ± 0.389
560
540
520
500
480
460

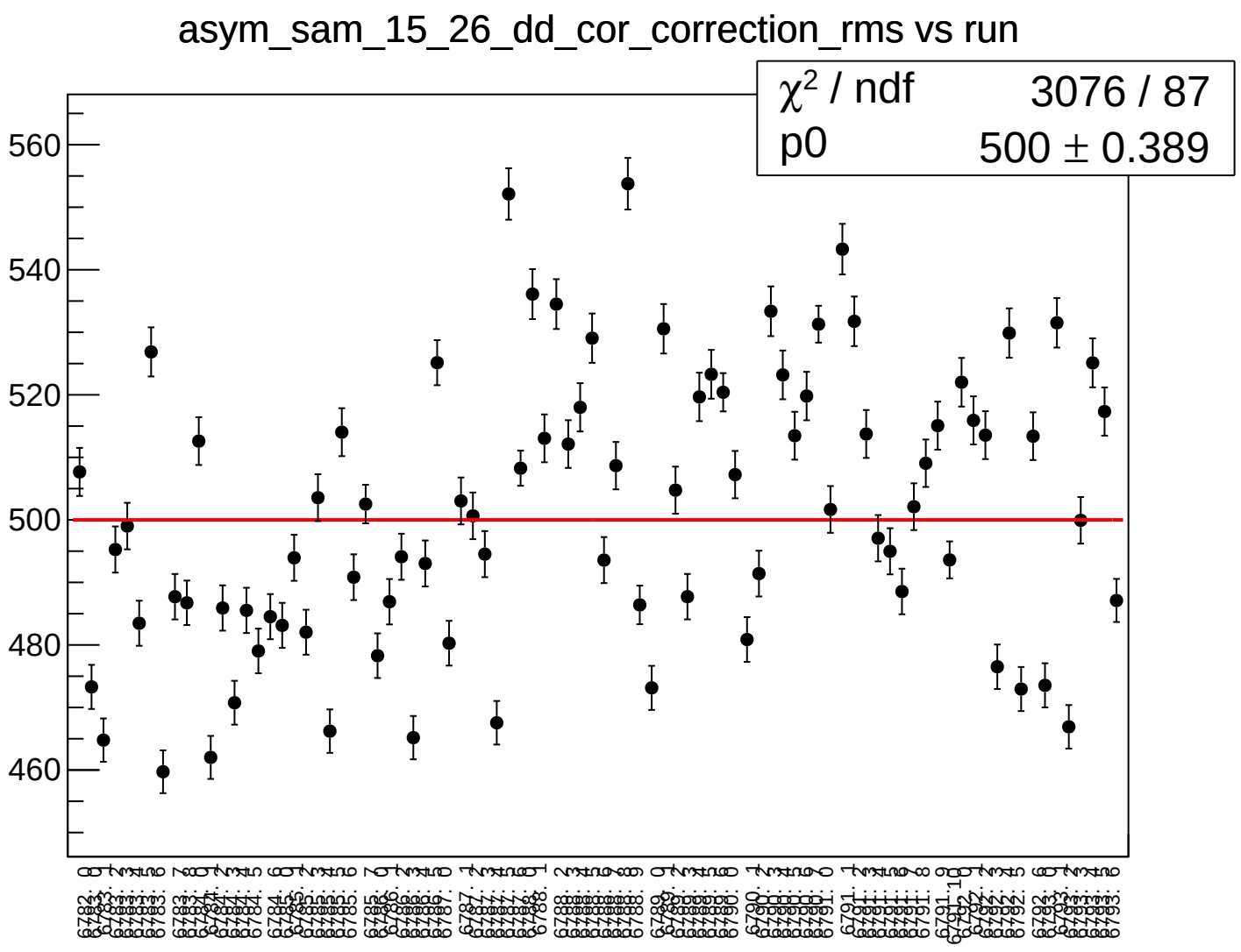

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 70.62 / 87
p0 −76.22 ± 73
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −58.61
Std Dev 101.5
2
1
0
−1
−2

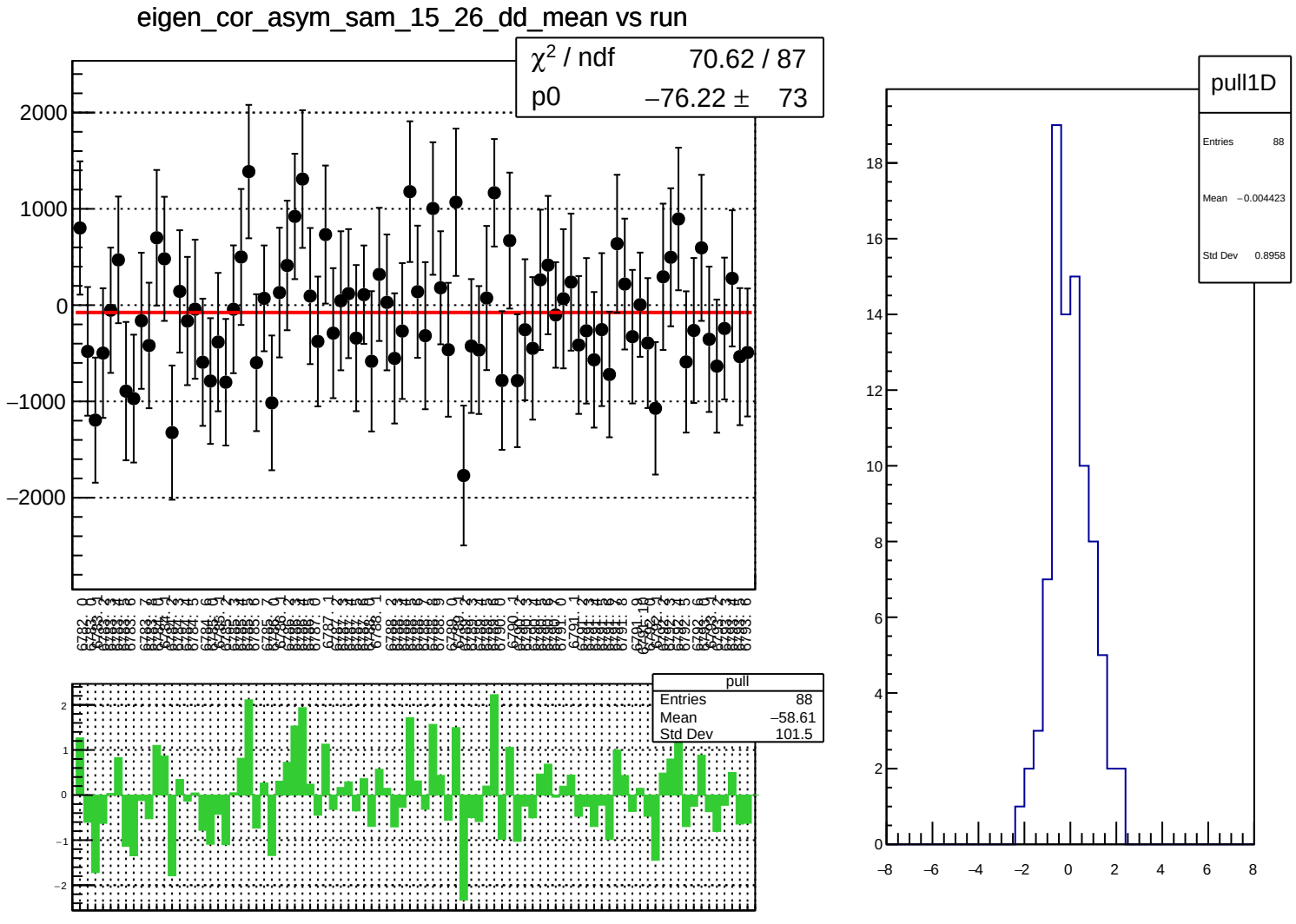

pull1D
Entries 88
Mean −0.004423
Std Dev 0.8958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

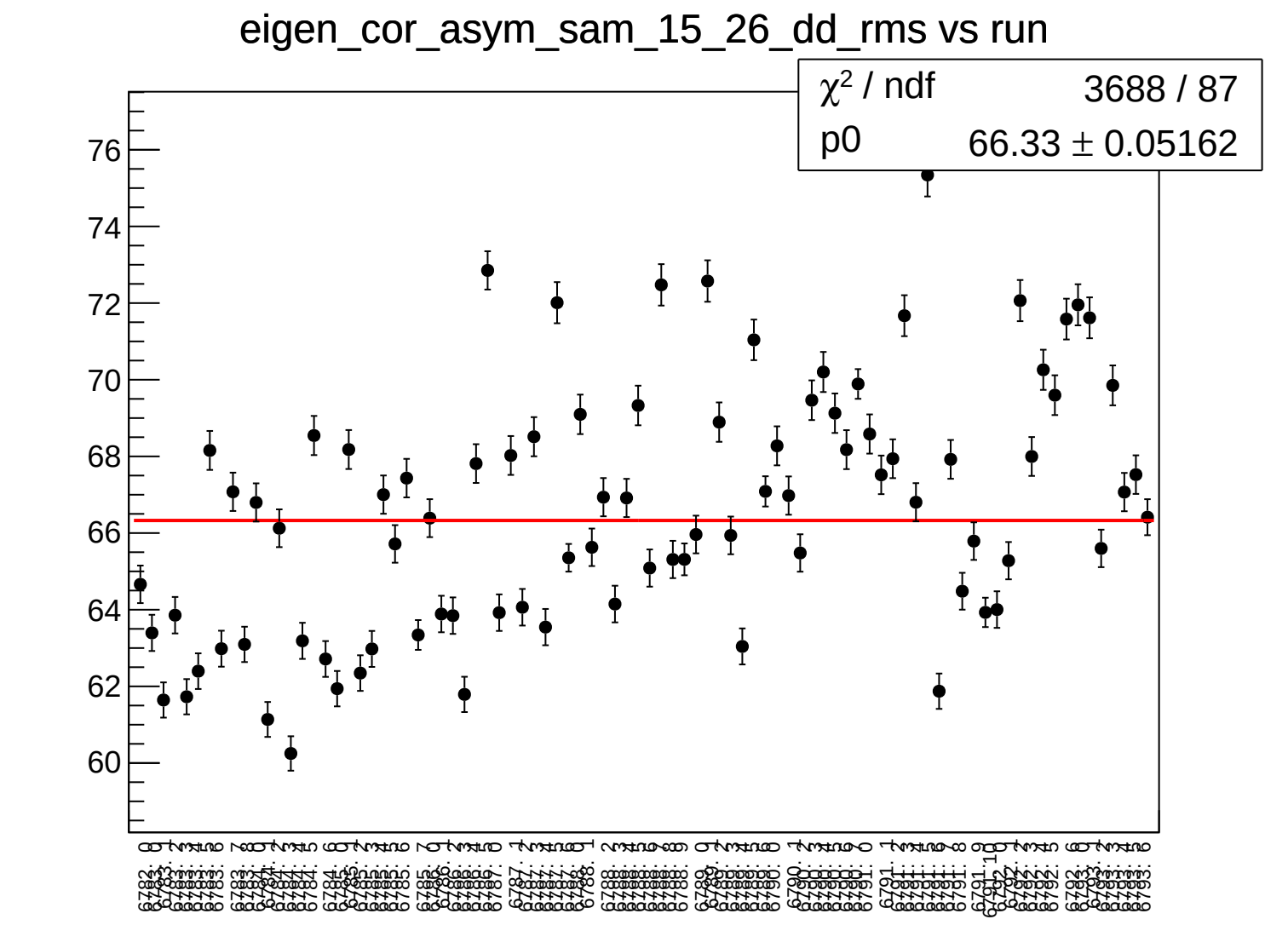

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3688 / 87
p0 66.33 ± 0.05162
76
74
72
70
68
66
64
62
60

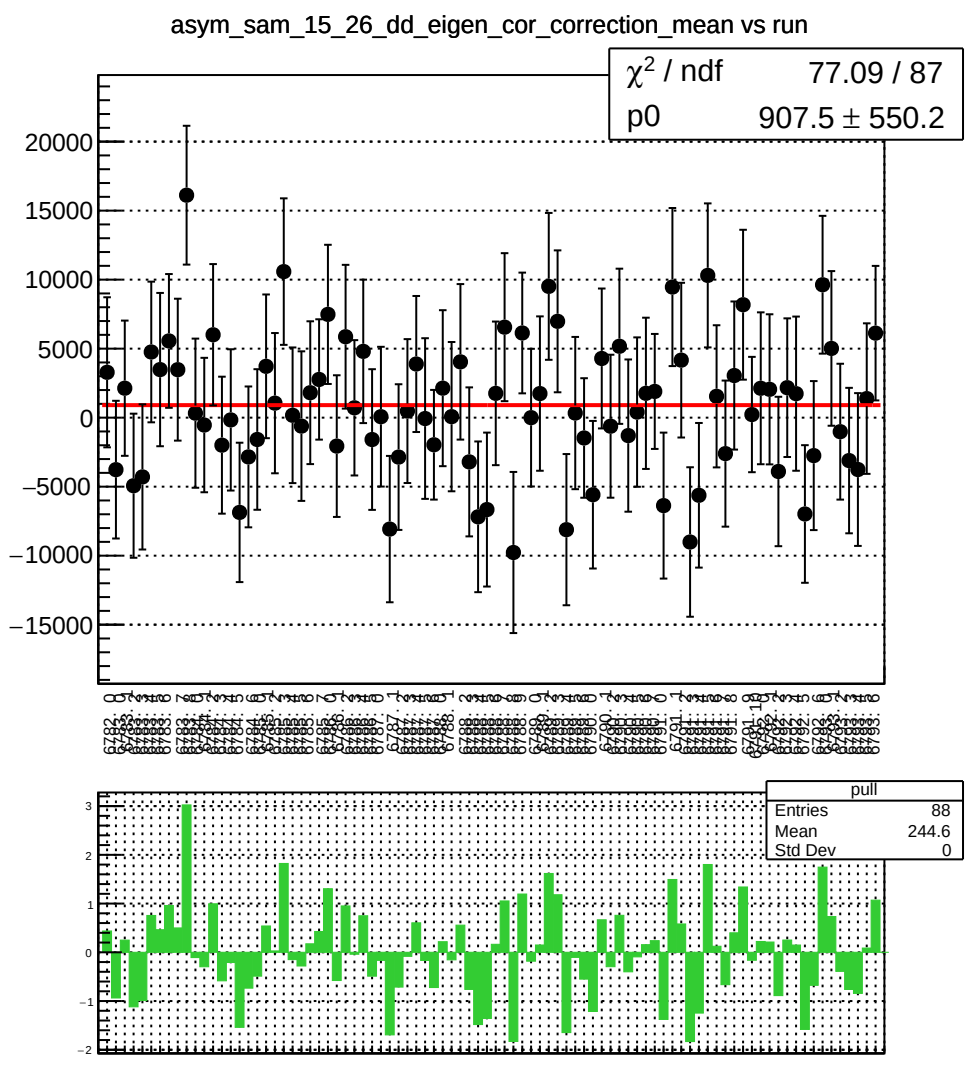

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 77.09 / 87
p0 907.5 ± 550.2
pull
Entries 88
Mean 244.6
Std Dev 0

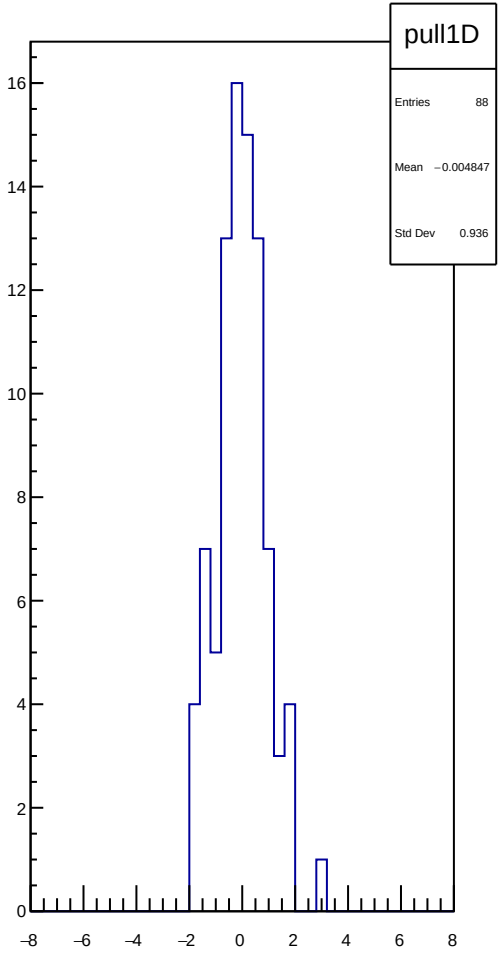

pull1D
Entries 88
Mean −0.004847
Std Dev 0.936

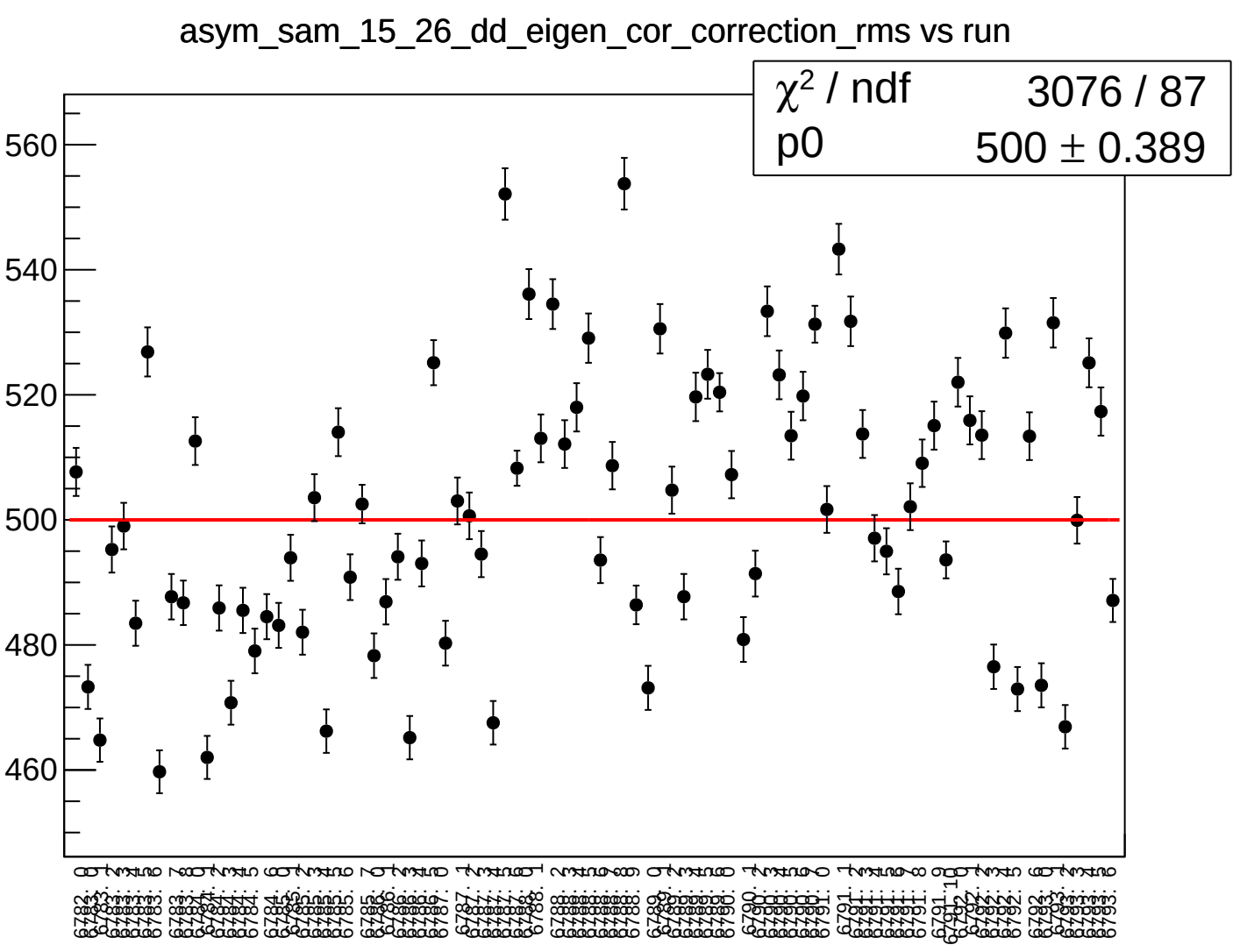

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 3076 / 87
p0 500 ± 0.389
560
540
520
500
480
460

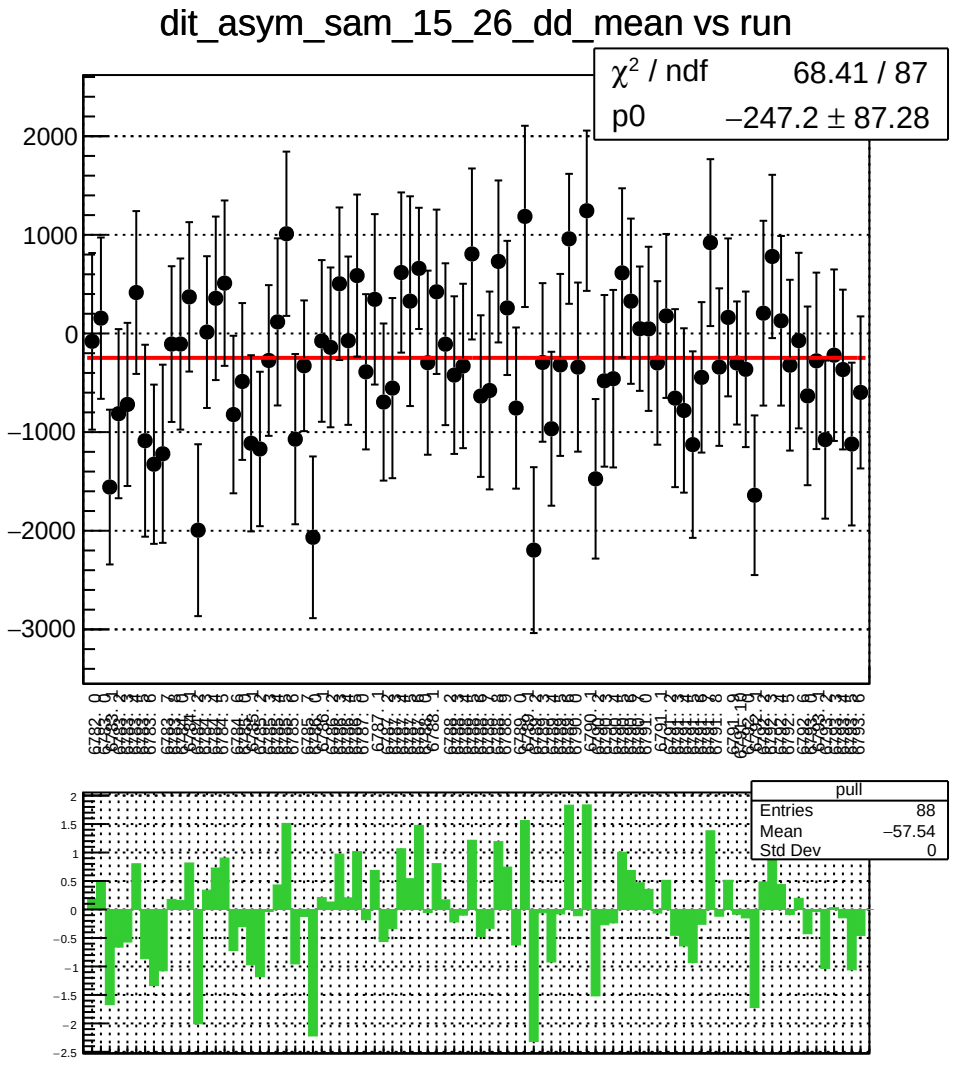

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 70.62 / 87
p0 −76.22 ± 73
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −58.61
Std Dev 101.5
pull1D
Entries 88
Mean −0.004423
Std Dev 0.8958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

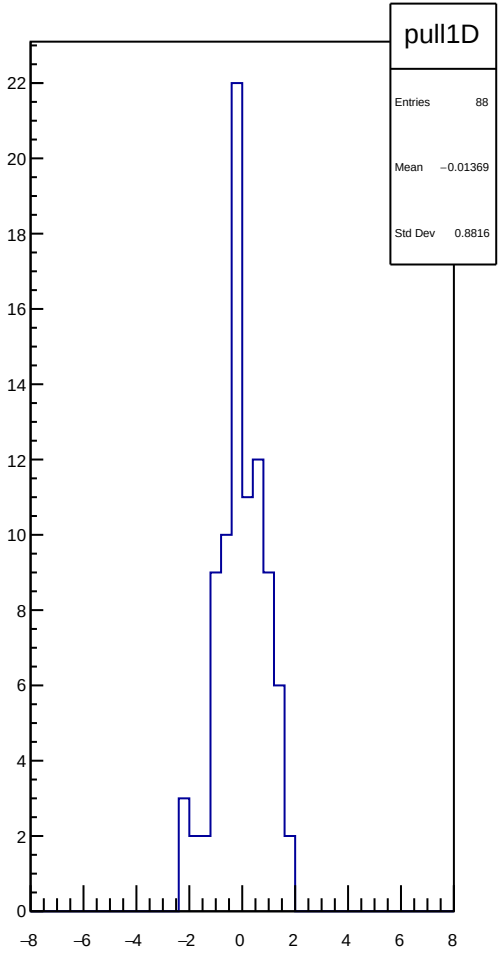

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3688 / 87
p0 66.33 ± 0.05162
76
74
72
70
68
66
64
62
60

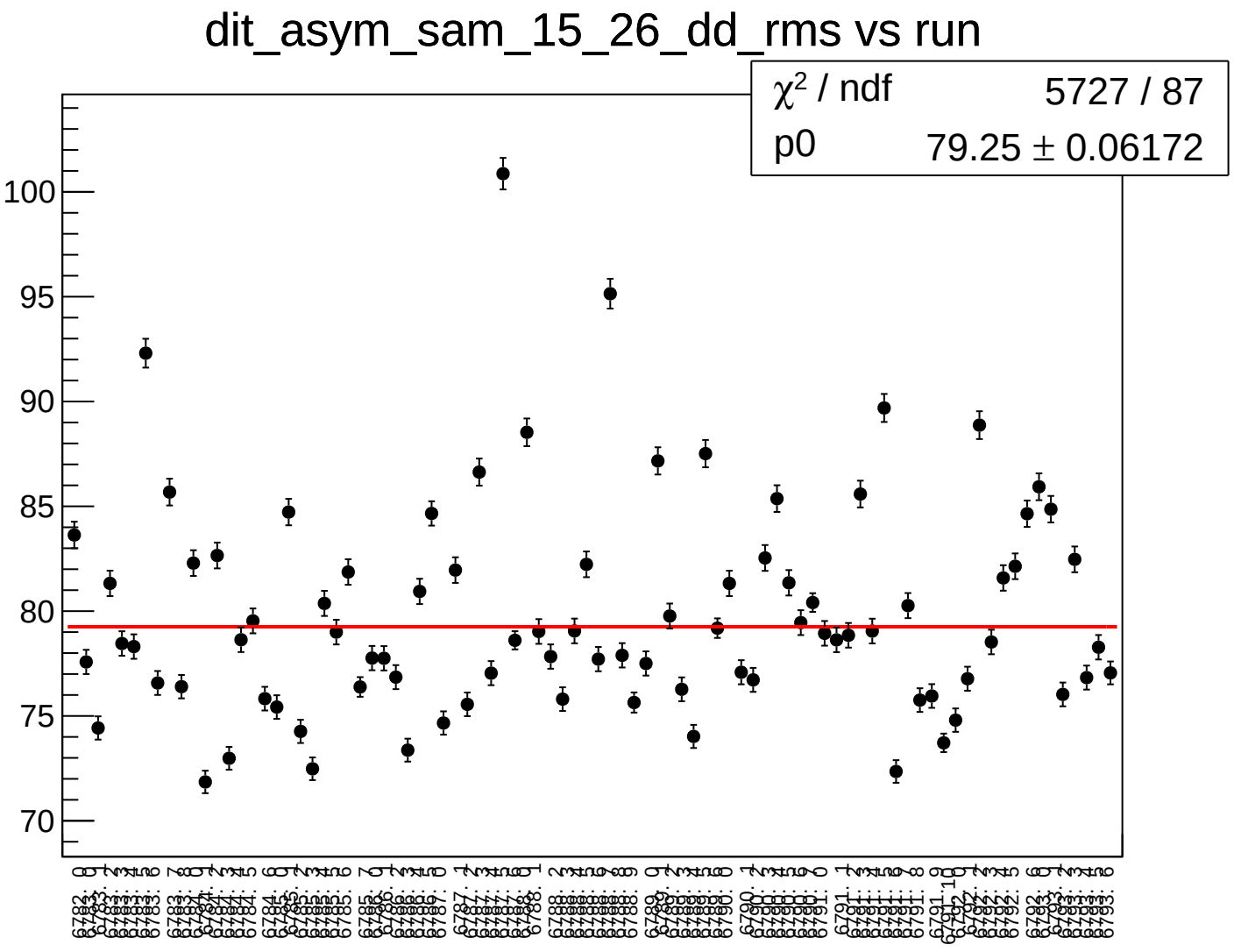

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.09 / 87
p0 907.5 ± 550.2
pull
Entries 88
Mean 244.6
Std Dev 0

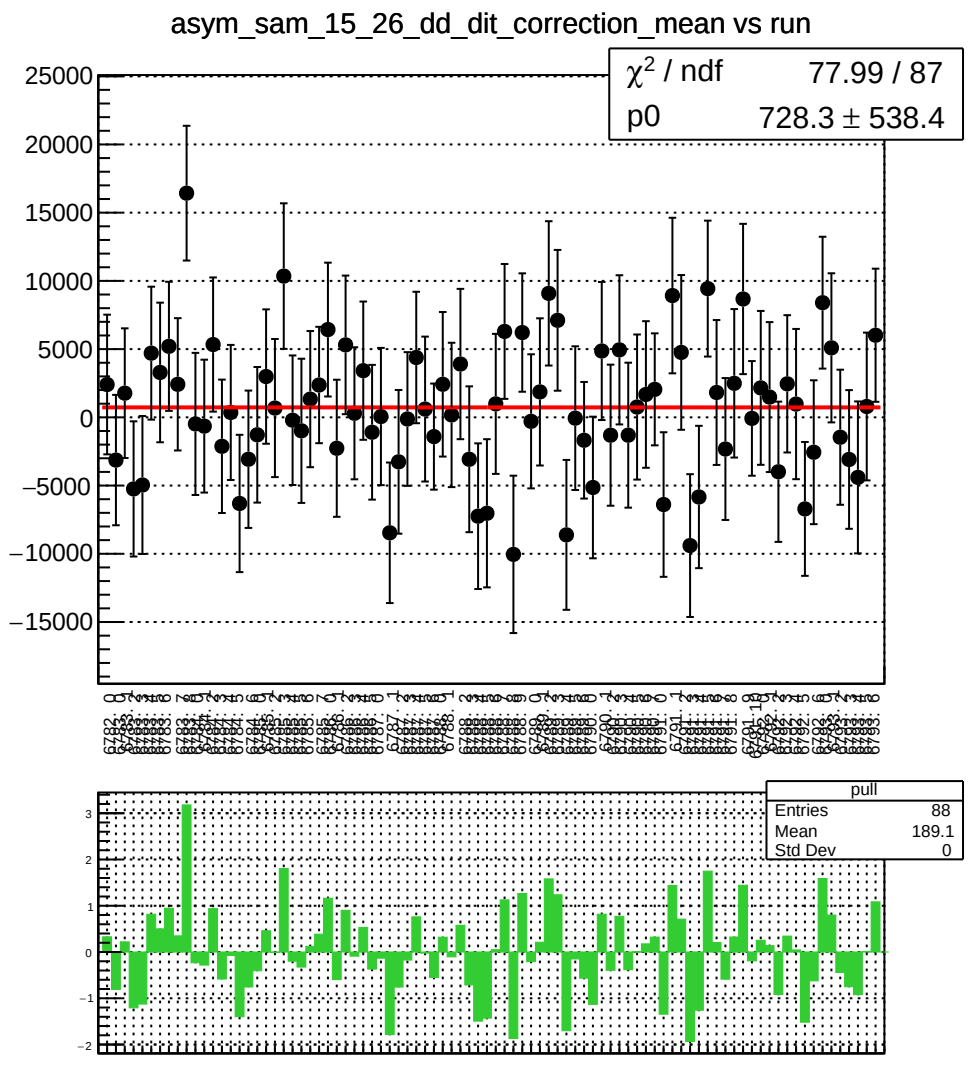

pull1D
Entries 88
Mean −0.004847
Std Dev 0.936

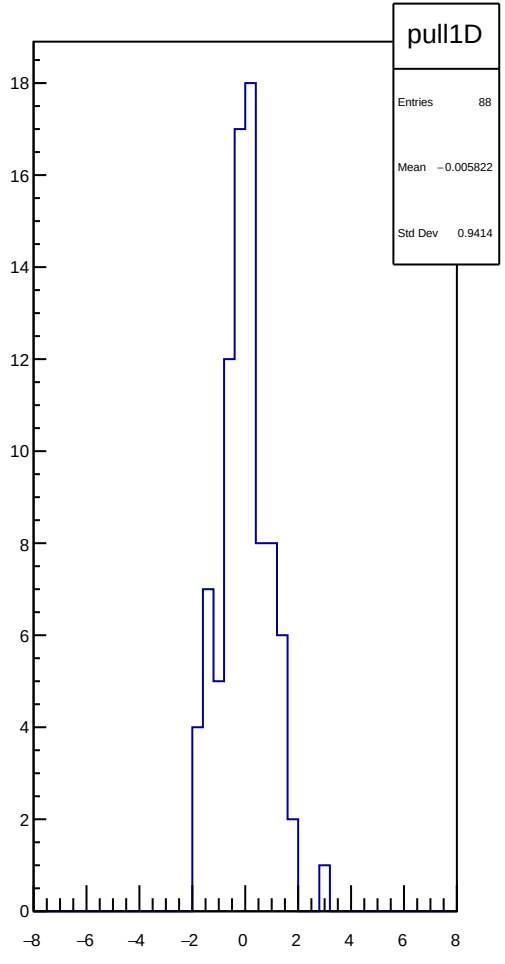

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3076 / 87
p0 500 ± 0.389
560
540
520
500
480
460

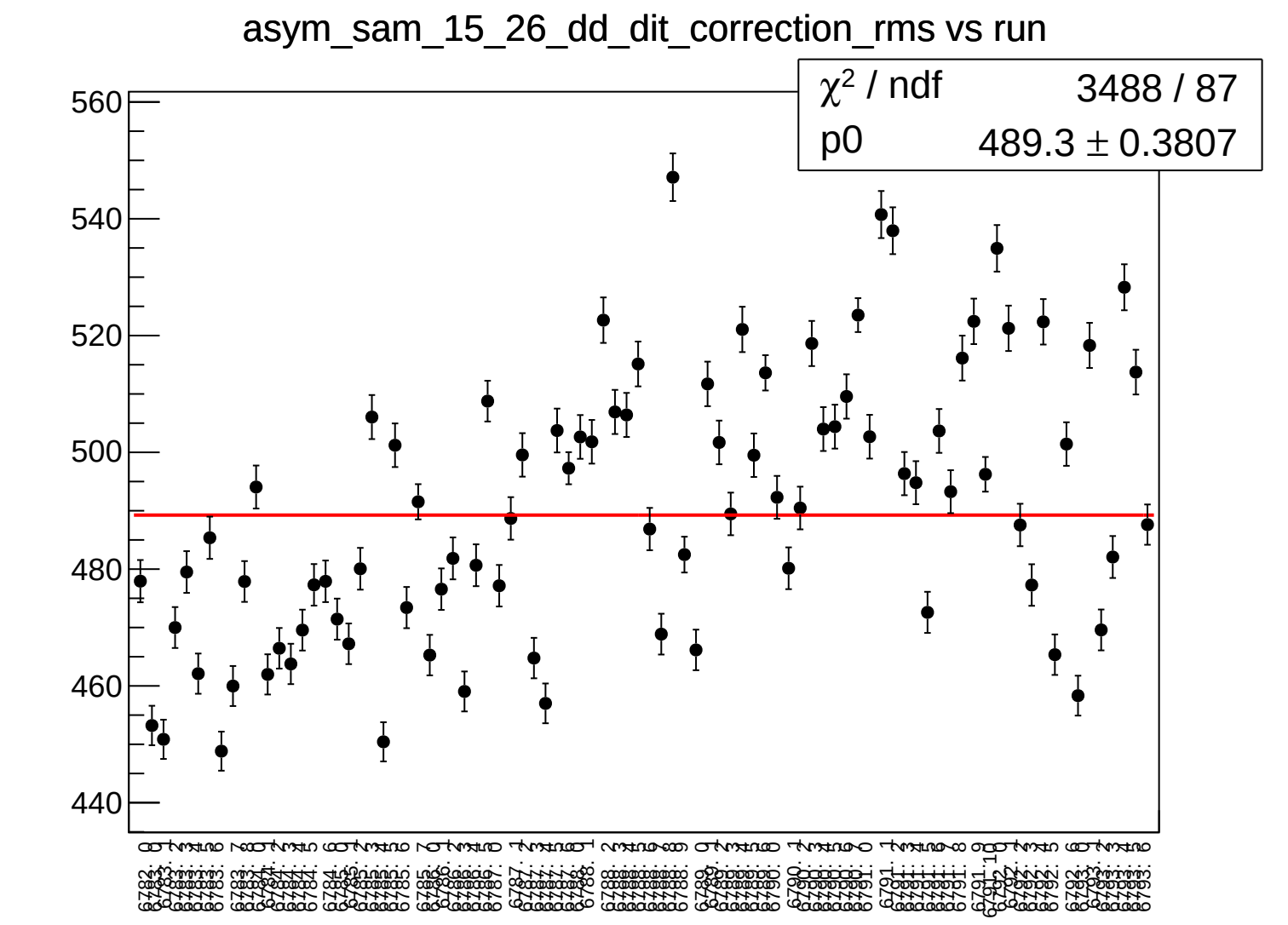

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 68.41 / 87
p0 −247.2 ± 87.28
pull
Entries 88
Mean −57.54
Std Dev 0

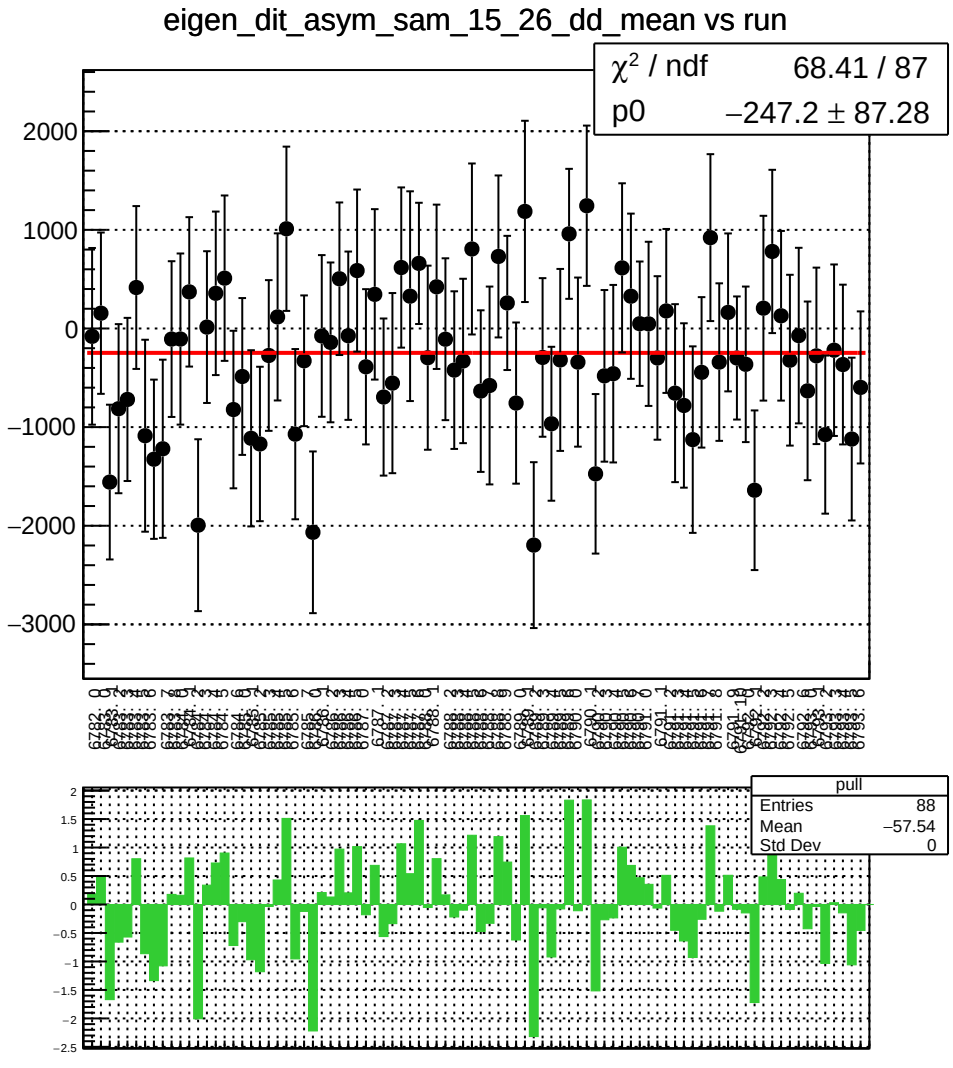

pull1D
Entries 88
Mean −0.01369
Std Dev 0.8816

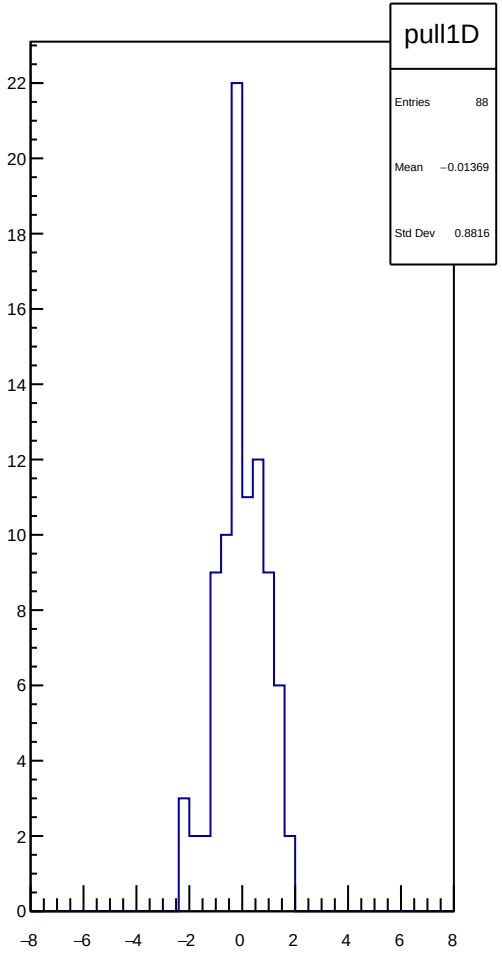

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 5727 / 87
p0 79.25 ± 0.06172
100
95
90
85
80
75
70

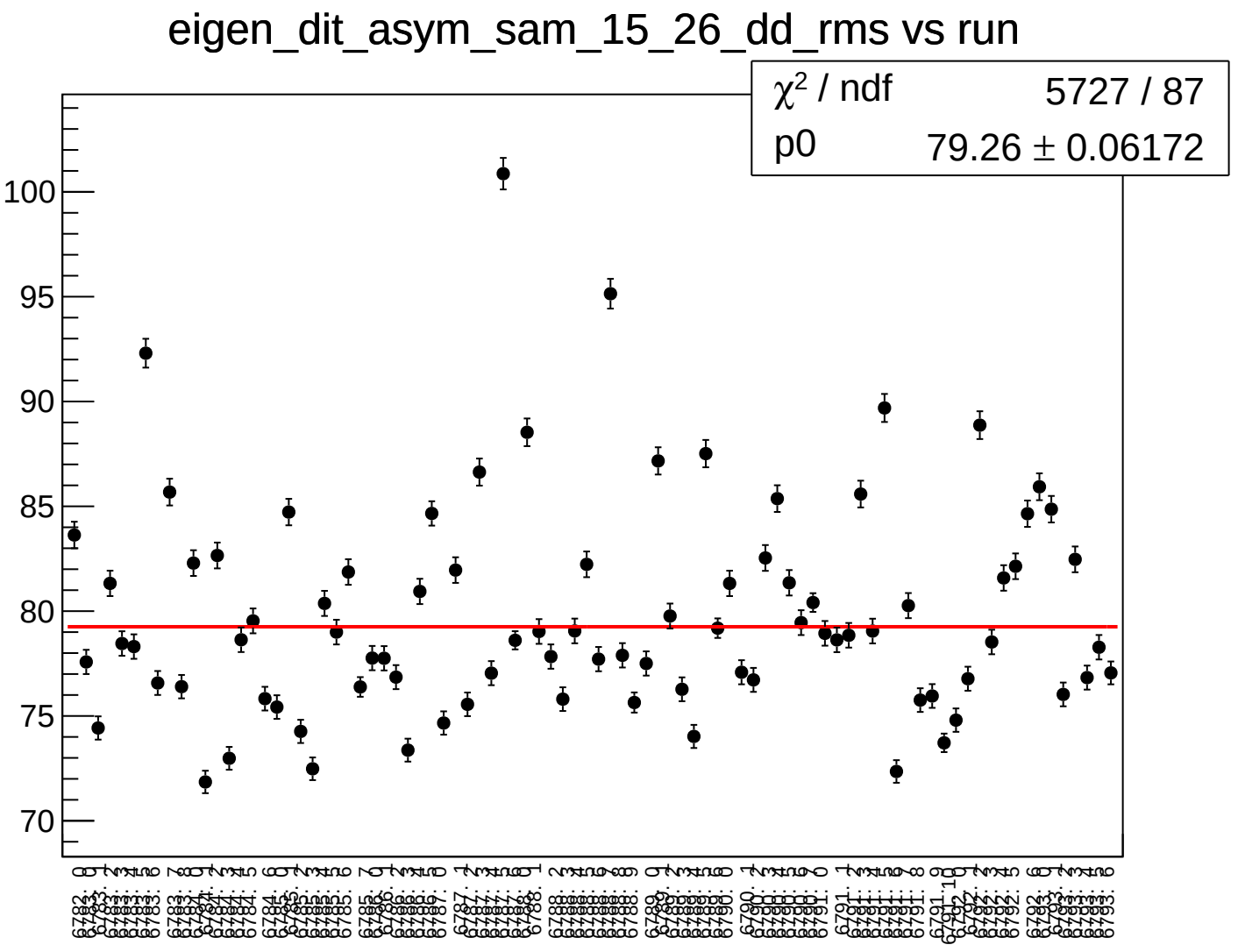

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 77.99 / 87
p0 728.3 ± 538.4
pull
Entries 88
Mean 189.1
Std Dev 0

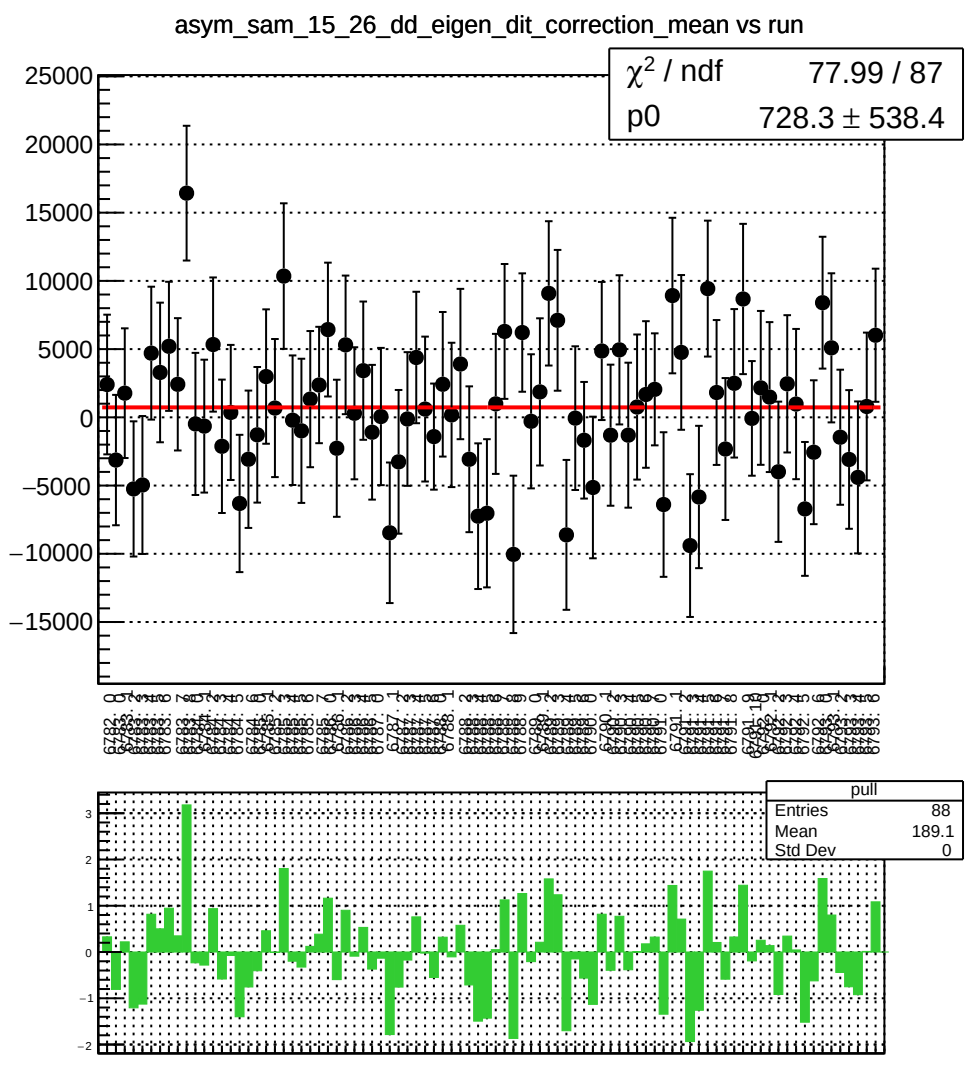

pull1D
Entries 88
Mean −0.005822
Std Dev 0.9414

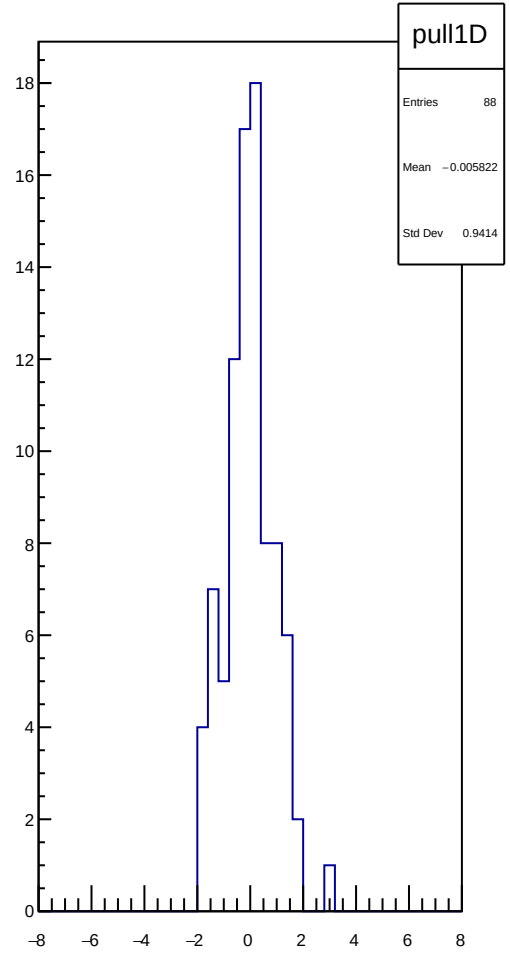

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3488 / 87
p0 489.3 ± 0.3807
560
540
520
500
480
460
440

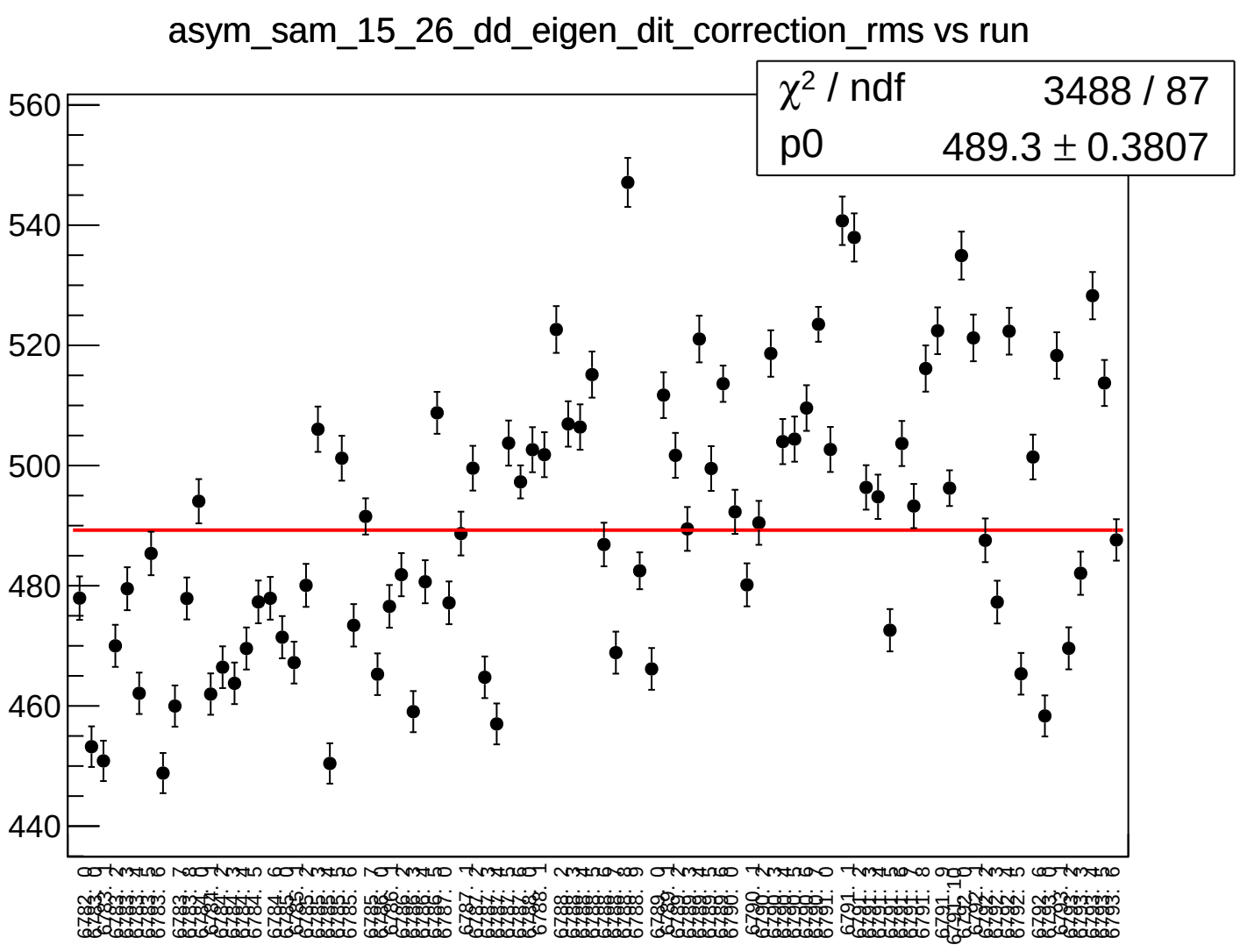

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 68.41 / 87
p0 −247.2 ± 87.28
pull
Entries 88
Mean −57.54
Std Dev 0

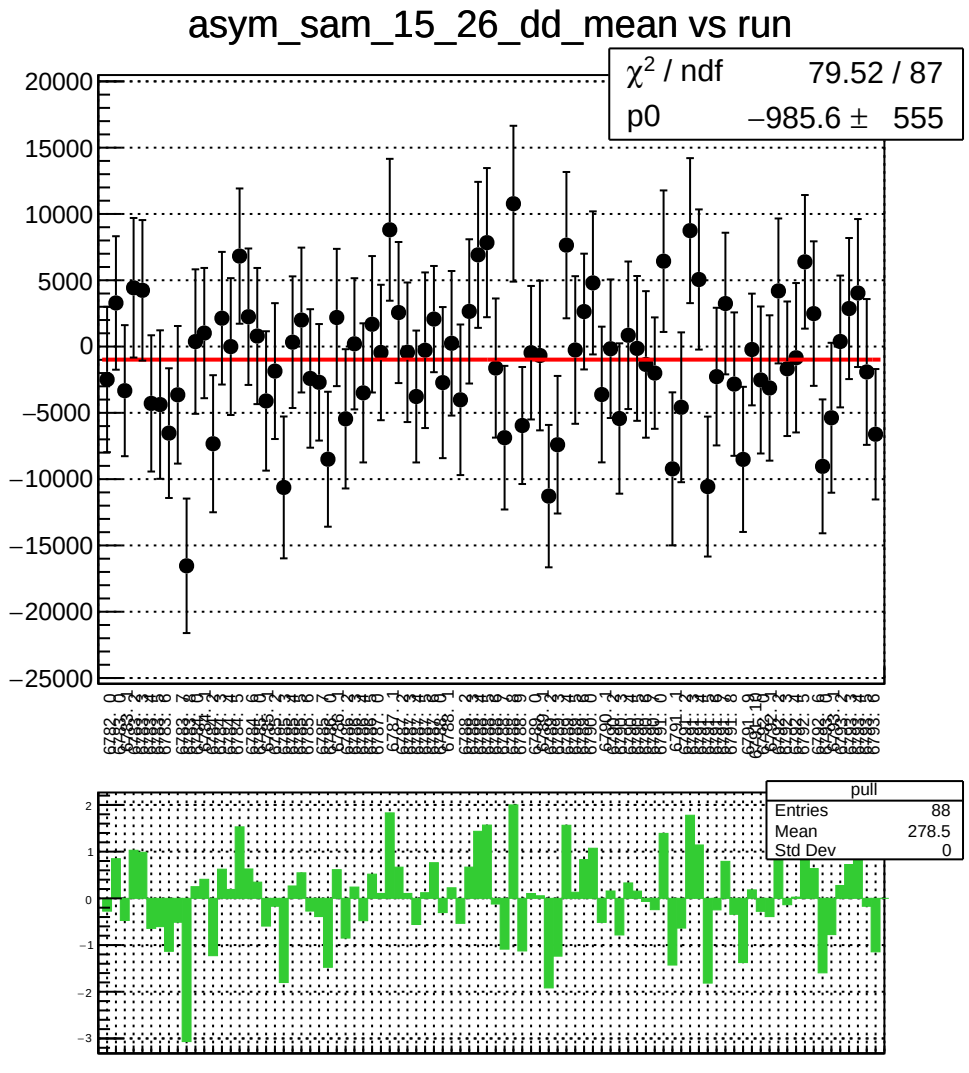

pull1D
Entries 88
Mean −0.01369
Std Dev 0.8816

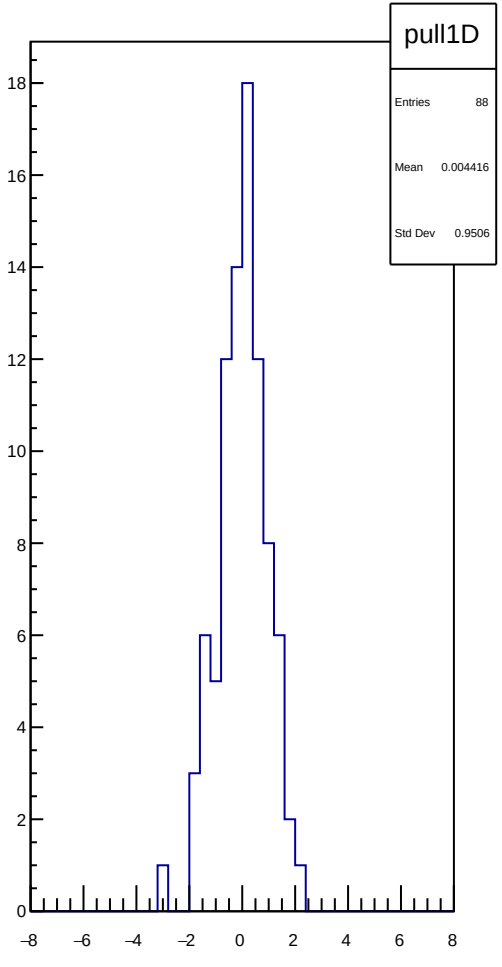

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 5727 / 87
p0 79.26 ± 0.06172
100
95
90
85
80
75
70

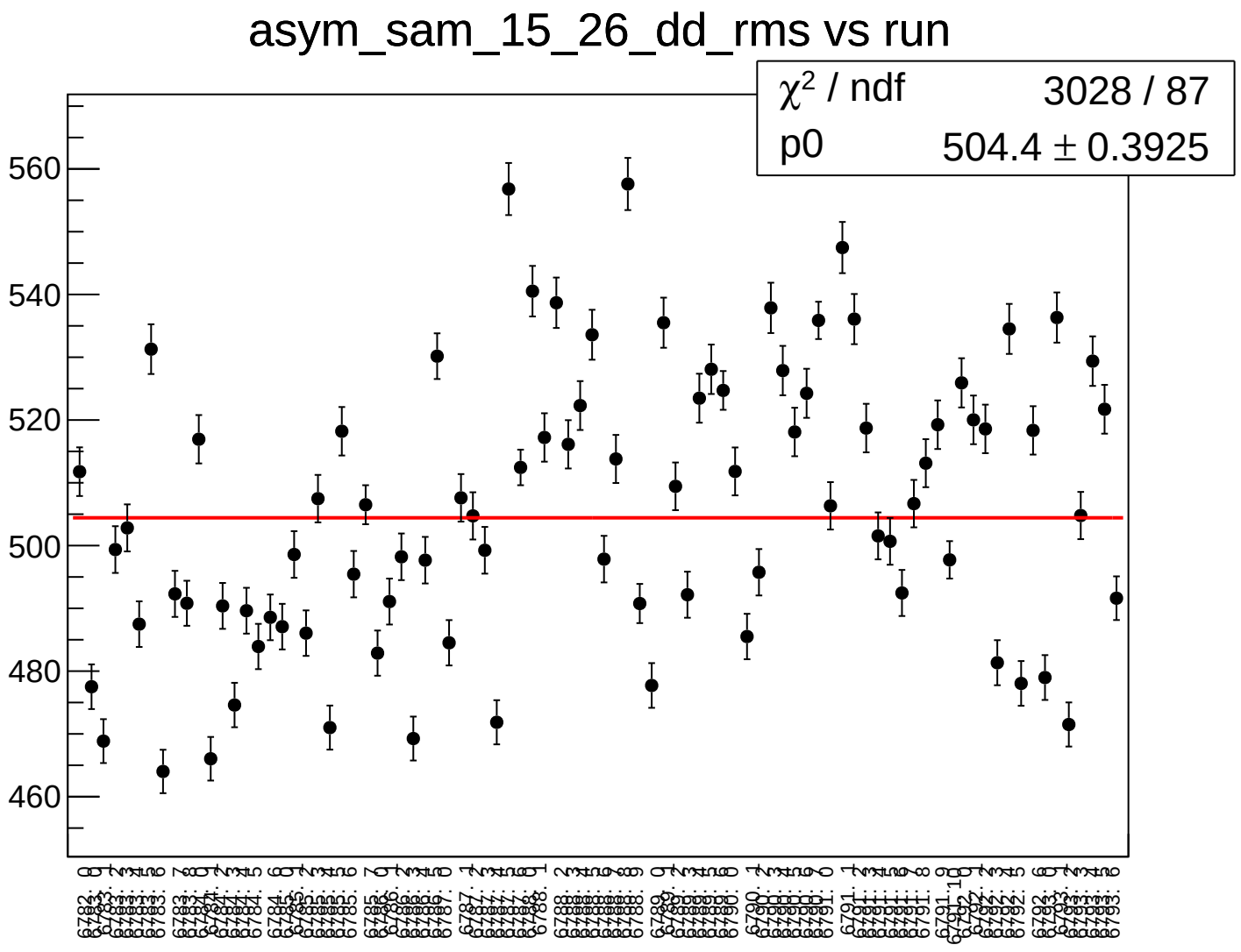

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 77.99 / 87
p0 728.3 ± 538.4
pull
Entries 88
Mean 189.1
Std Dev 0

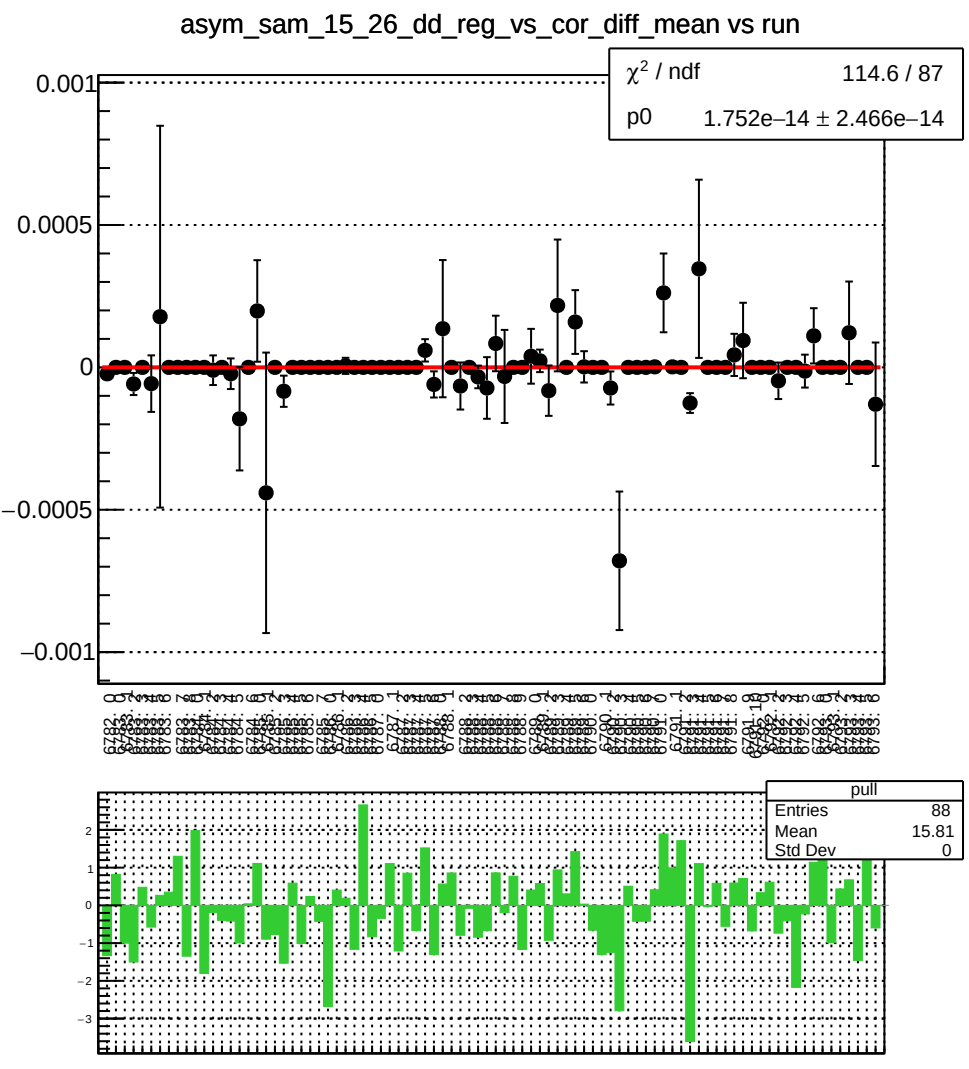

pull1D
Entries 88
Mean −0.005822
Std Dev 0.9414

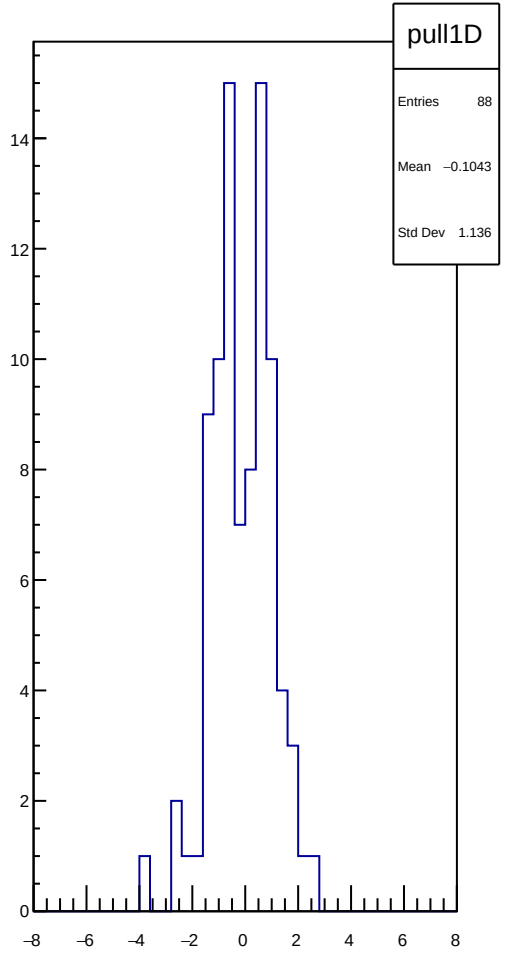

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3488 / 87
p0 489.3 ± 0.3807
560
540
520
500
480
460
440

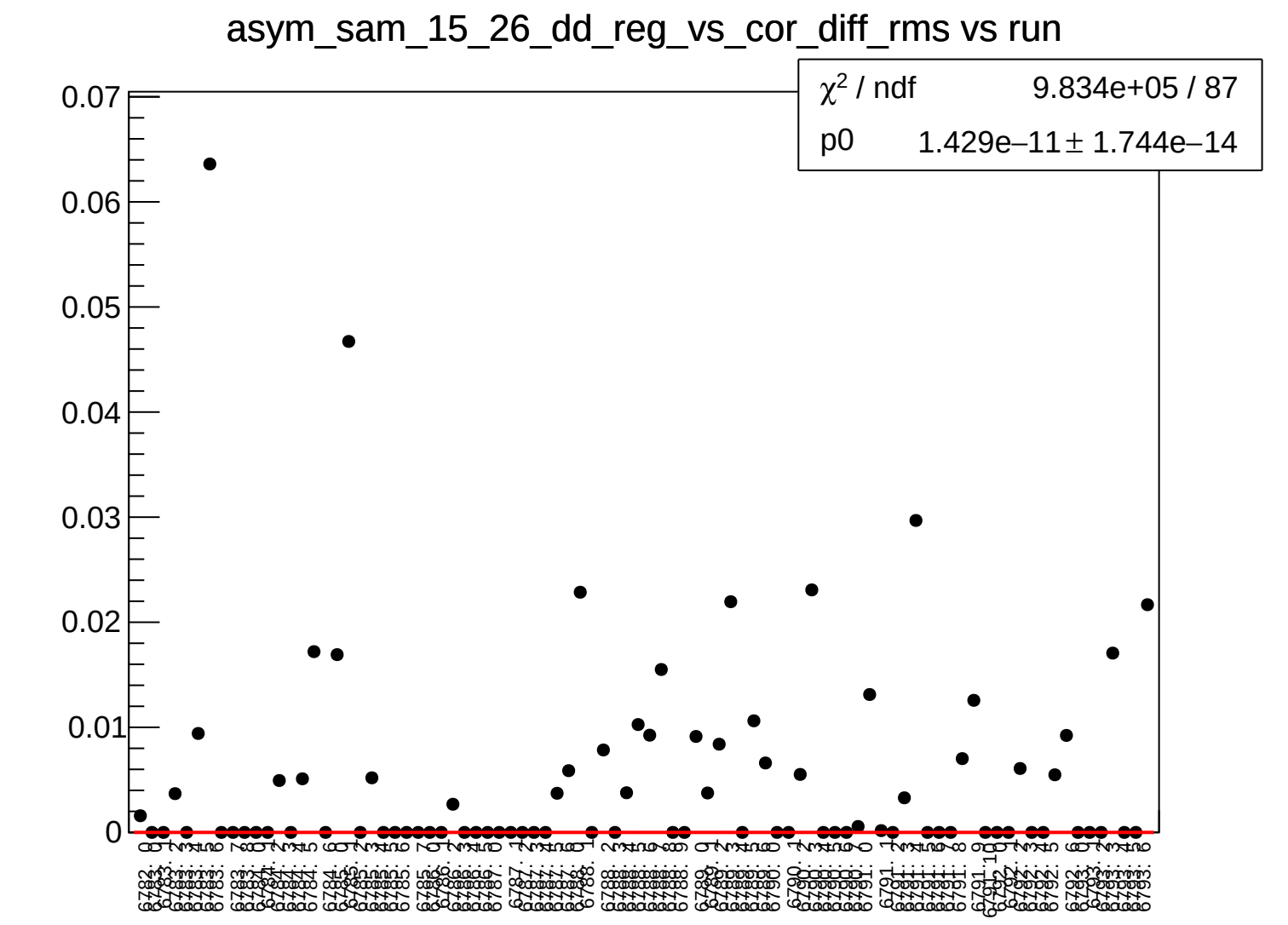

asym_sam_15_26_dd_mean vs run
χ² / ndf 79.52 / 87
p0 −985.6 ± 555
pull
Entries 88
Mean 278.5
Std Dev 0

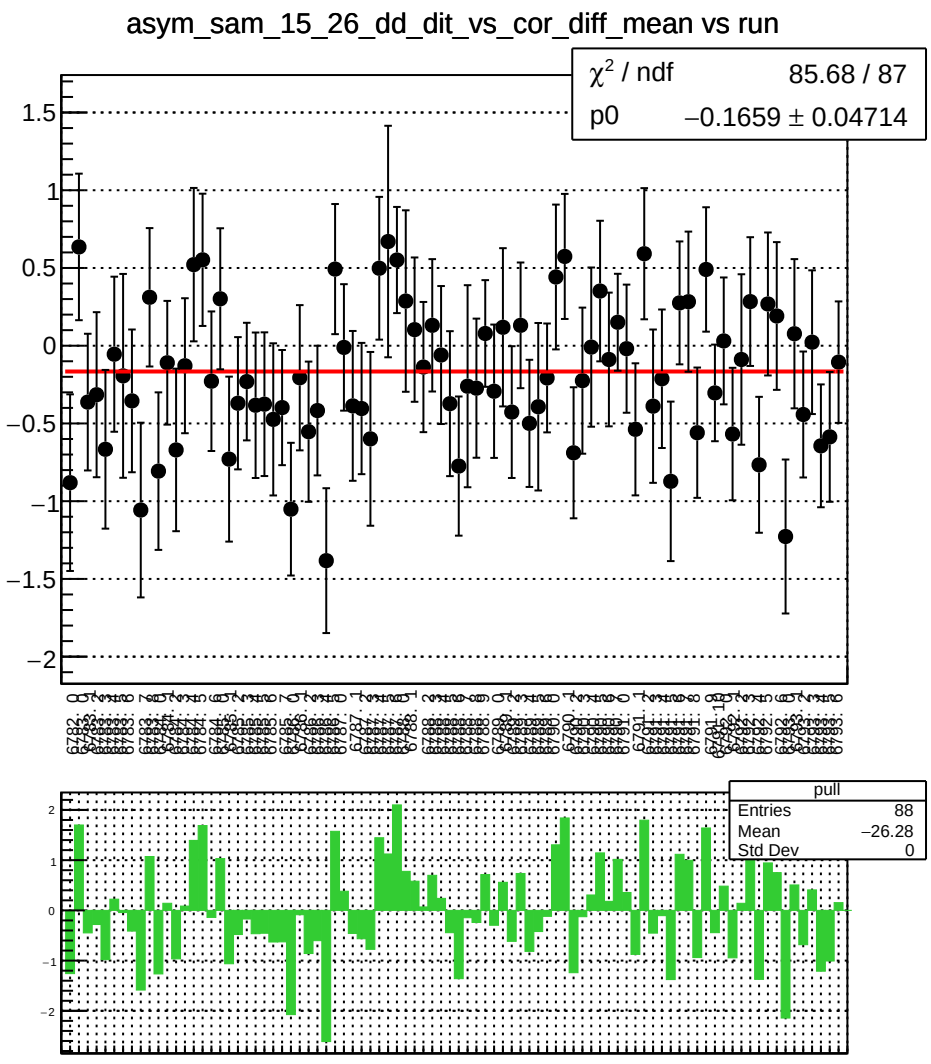

pull1D
Entries 88
Mean 0.004416
Std Dev 0.9506

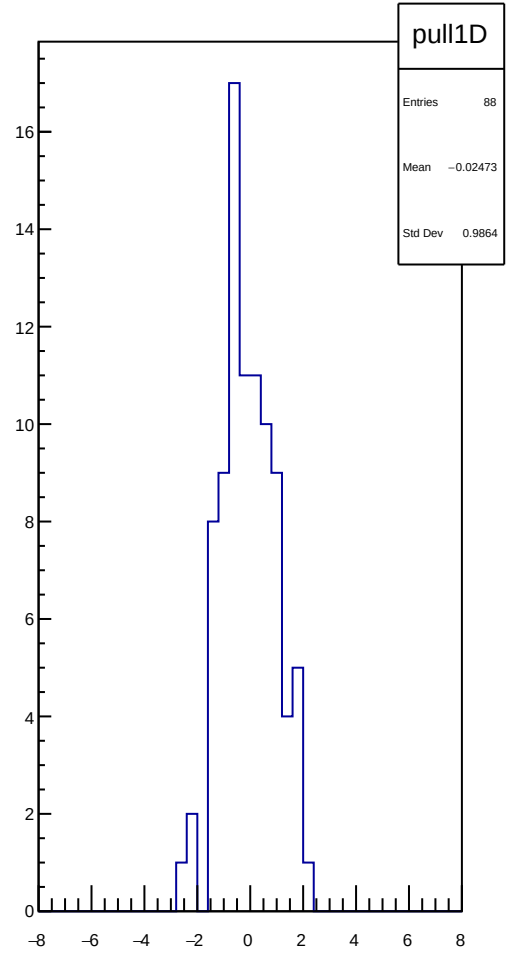

asym_sam_15_26_dd_rms vs run
χ² / ndf 3028 / 87
p0 504.4 ± 0.3925
560
540
520
500
480
460

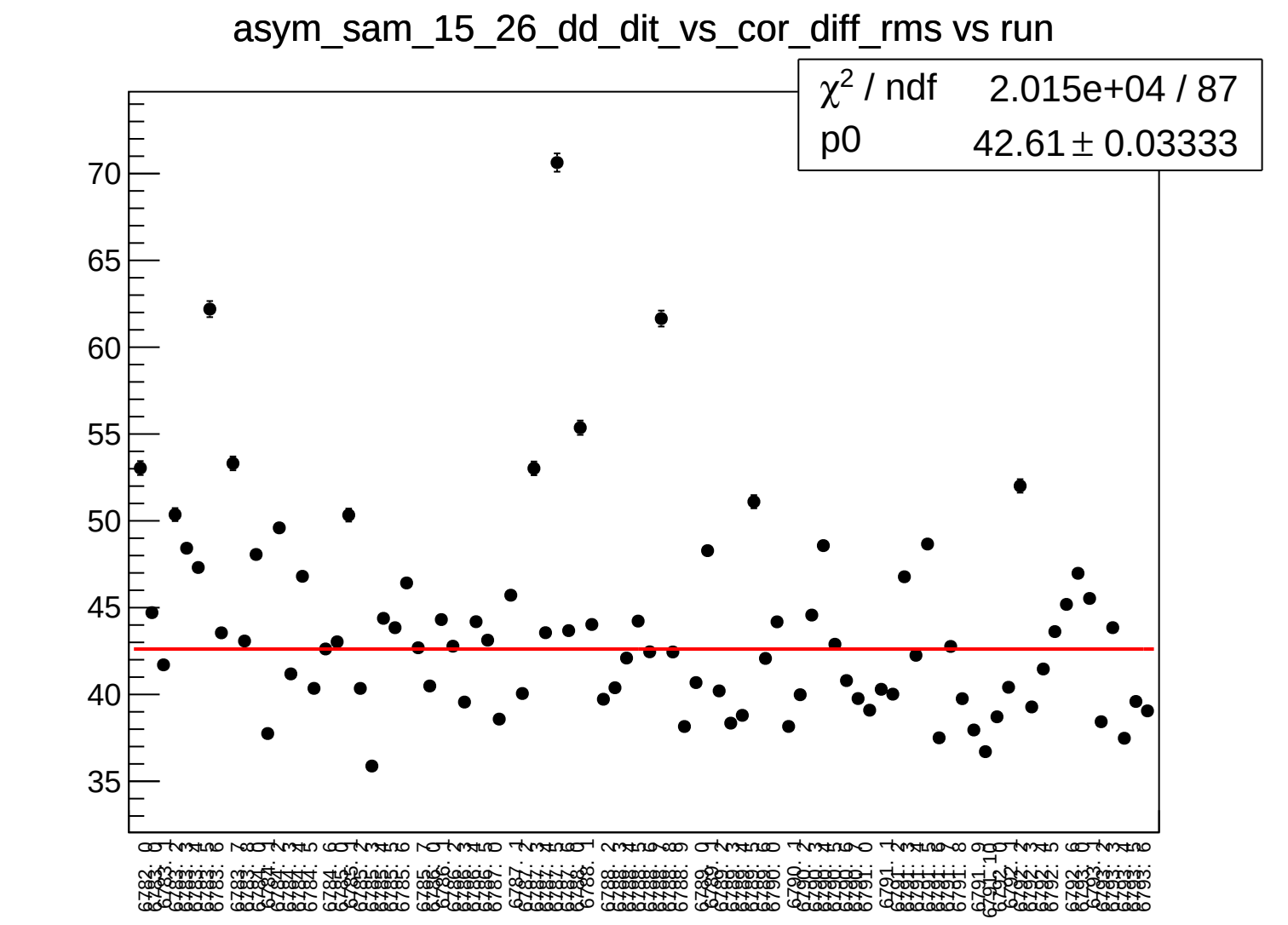

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 87
p0 1.752e−14 ± 2.466e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 15.81
Std Dev 0
2
1
0
−1
−2
−3

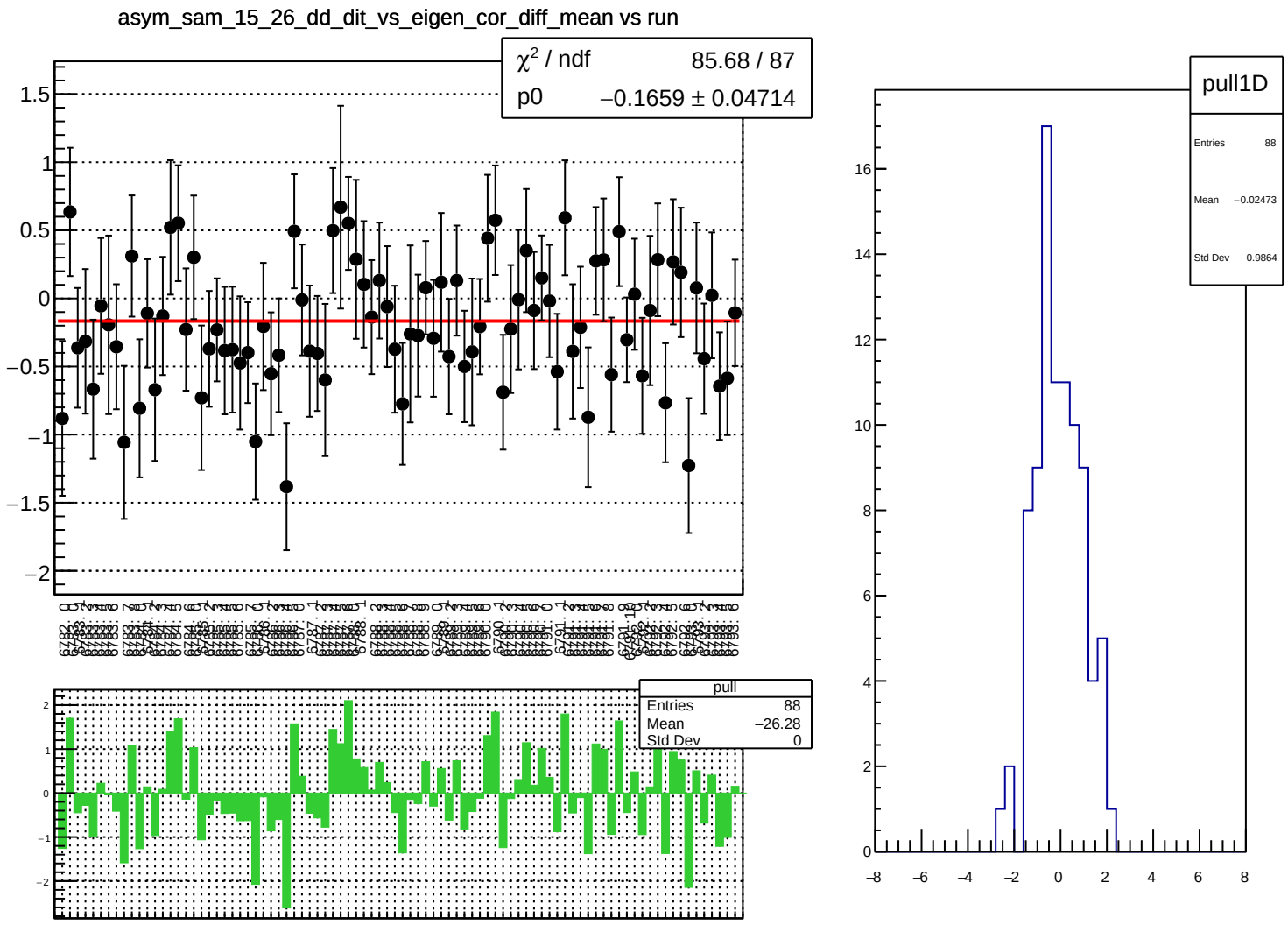

pull1D
Entries 88
Mean −0.1043
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

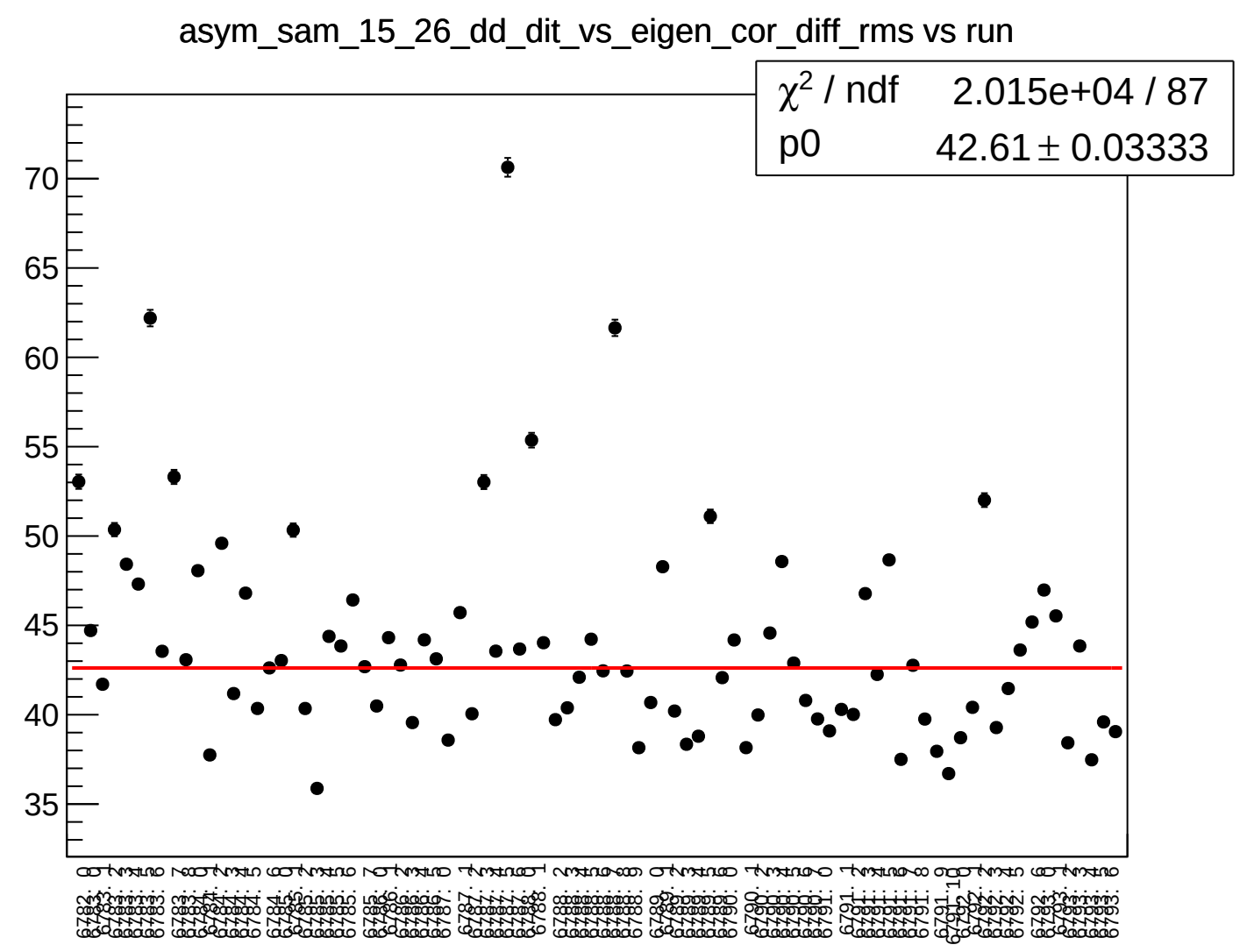

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.834e+05 / 87
p0 1.429e−11 ± 1.744e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

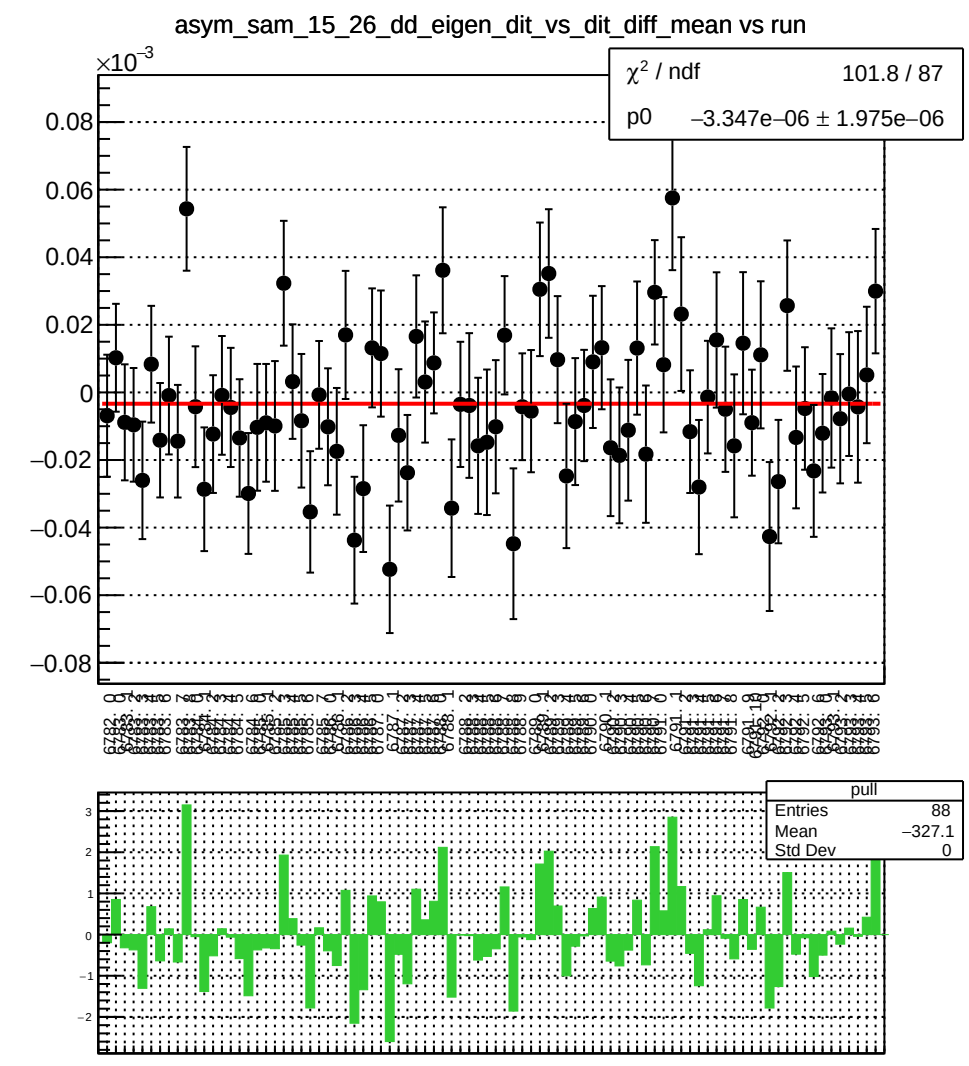

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 87
p0 −0.1659 ± 0.04714
pull
Entries 88
Mean −26.28
Std Dev 0

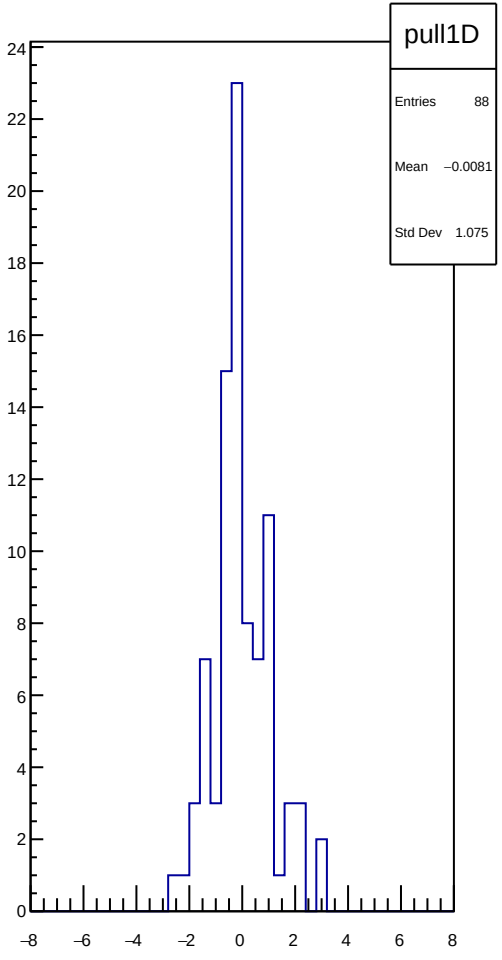

pull1D
Entries 88
Mean −0.02473
Std Dev 0.9864

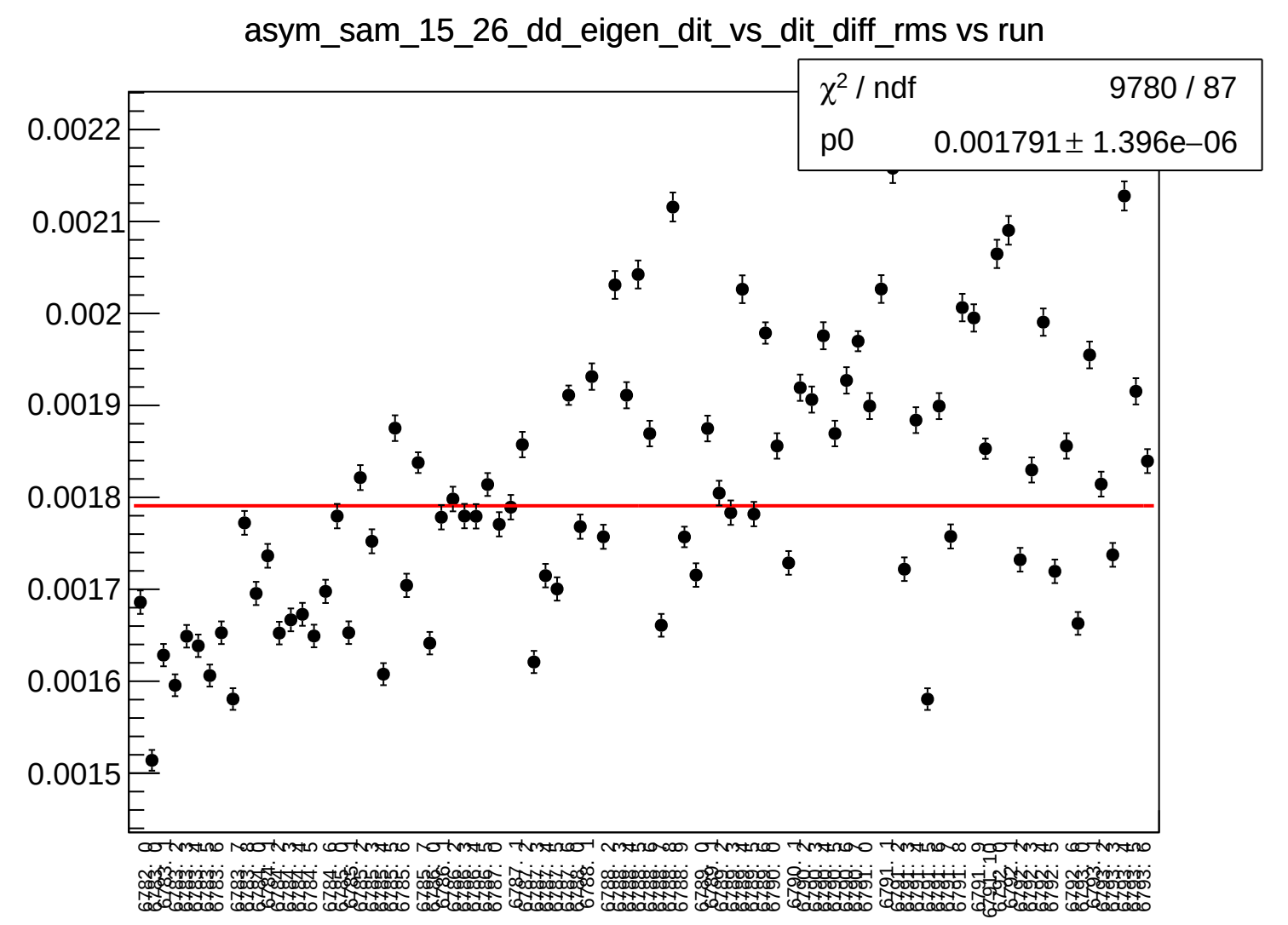

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.015e+04 / 87
p0 42.61 ± 0.03333
70
65
60
55
50
45
40
35

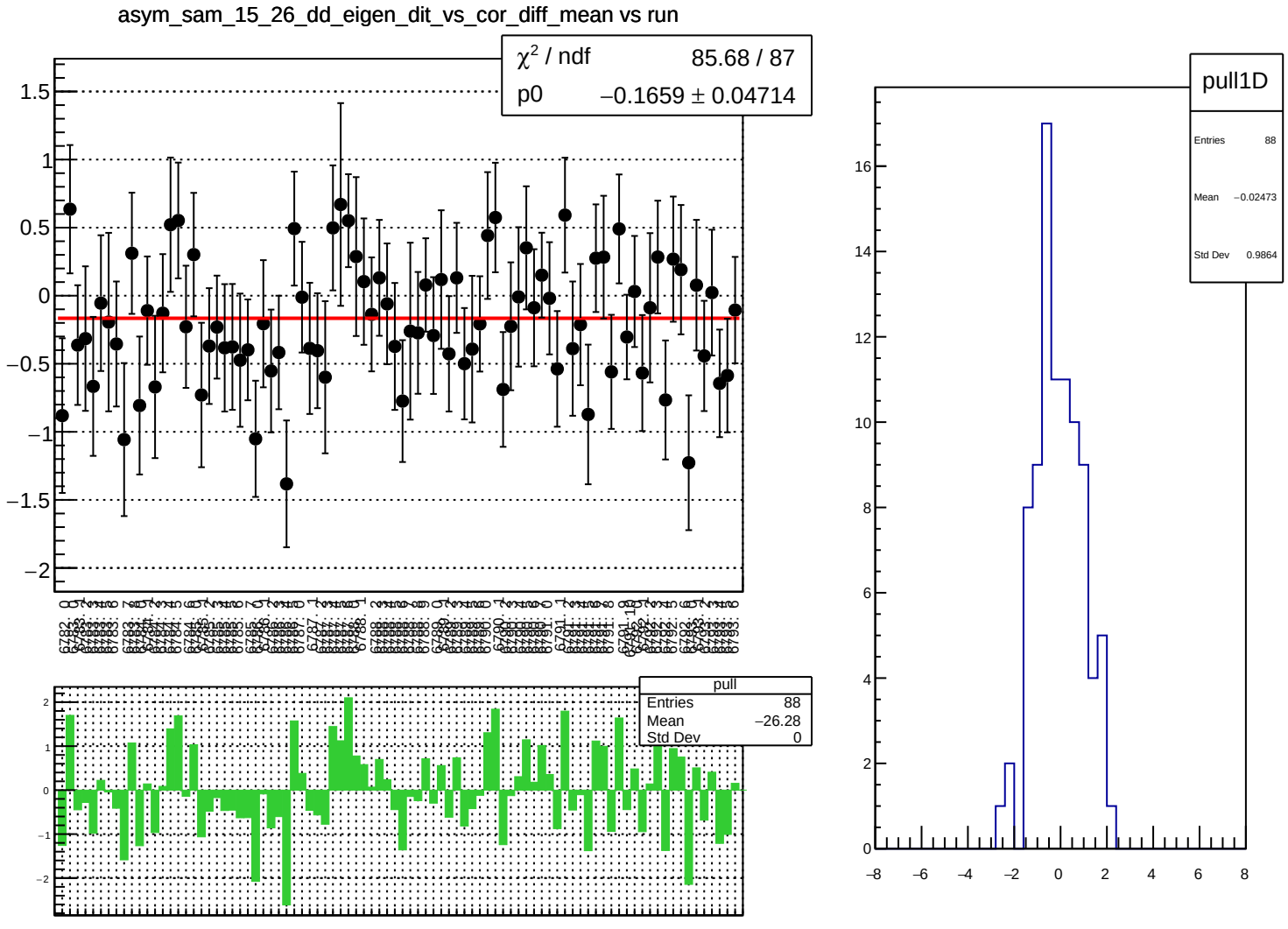

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.68 / 87
p0 −0.1659 ± 0.04714
pull
Entries 88
Mean −26.28
Std Dev 0
pull1D
Entries 88
Mean −0.02473
Std Dev 0.9864

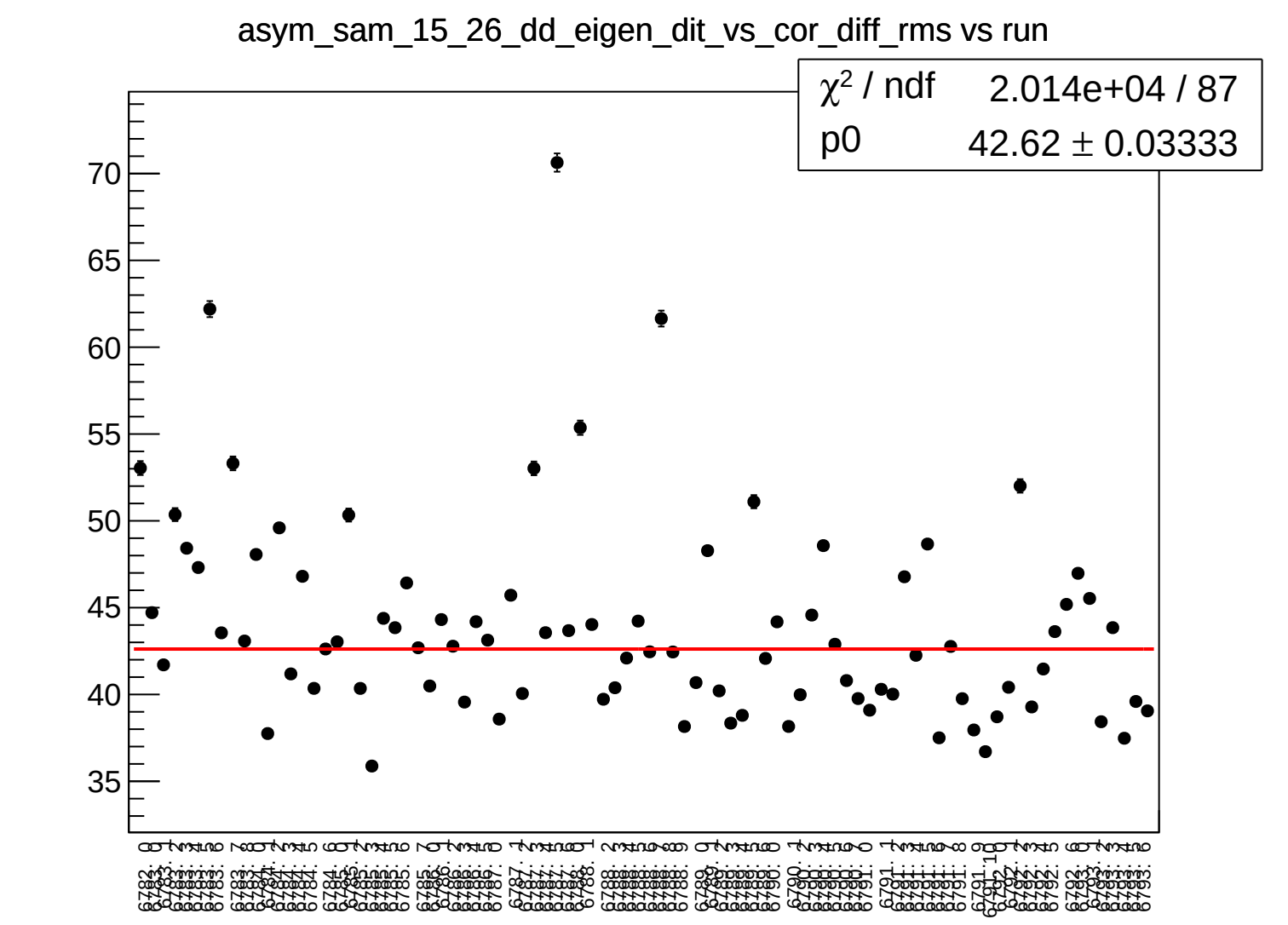

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.015e+04 / 87
p0 42.61 ± 0.03333
70
65
60
55
50
45
40
35

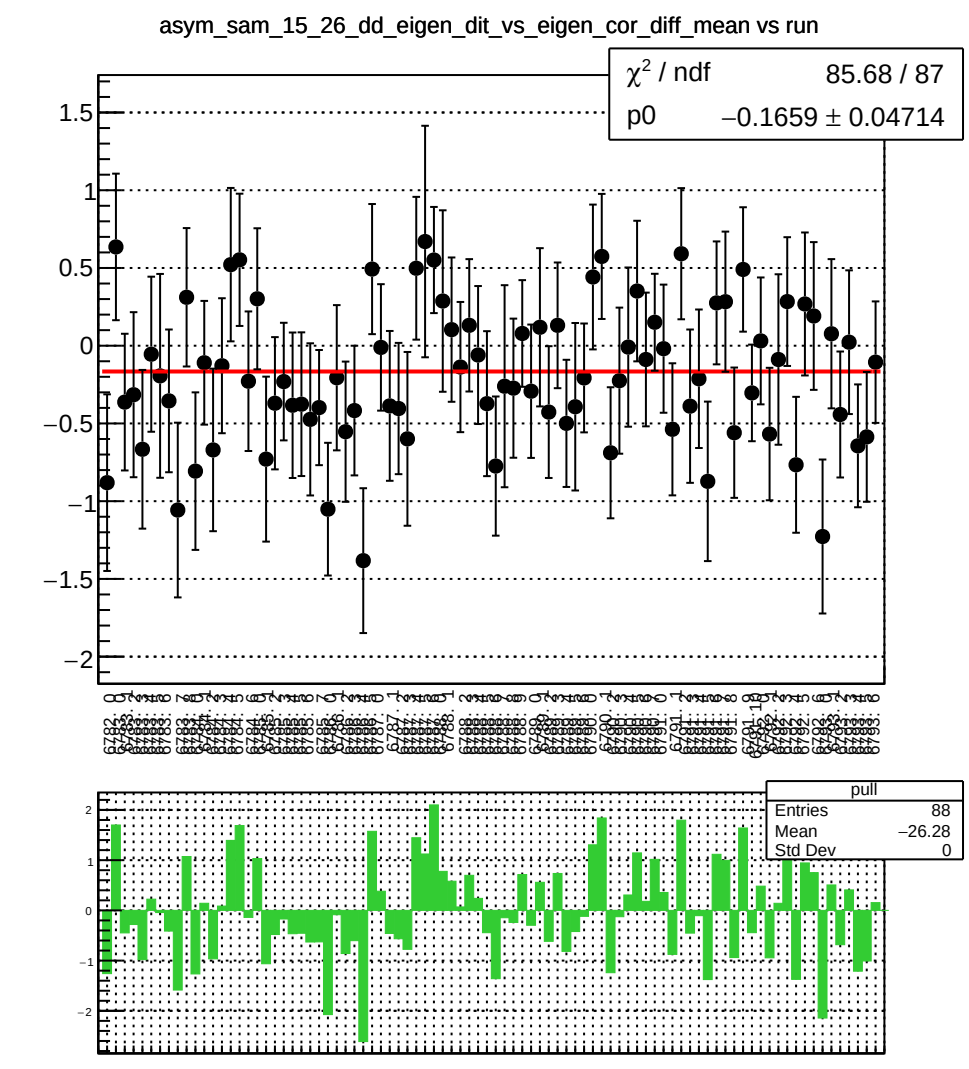

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.8 / 87
p0 −3.347e−06 ± 1.975e−06
pull
Entries 88
Mean −327.1
Std Dev 0

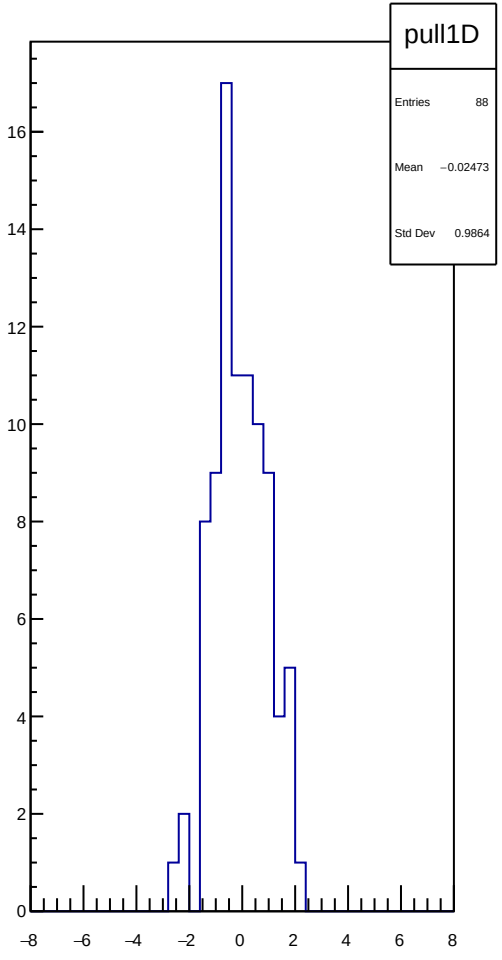

pull1D
Entries 88
Mean −0.0081
Std Dev 1.075

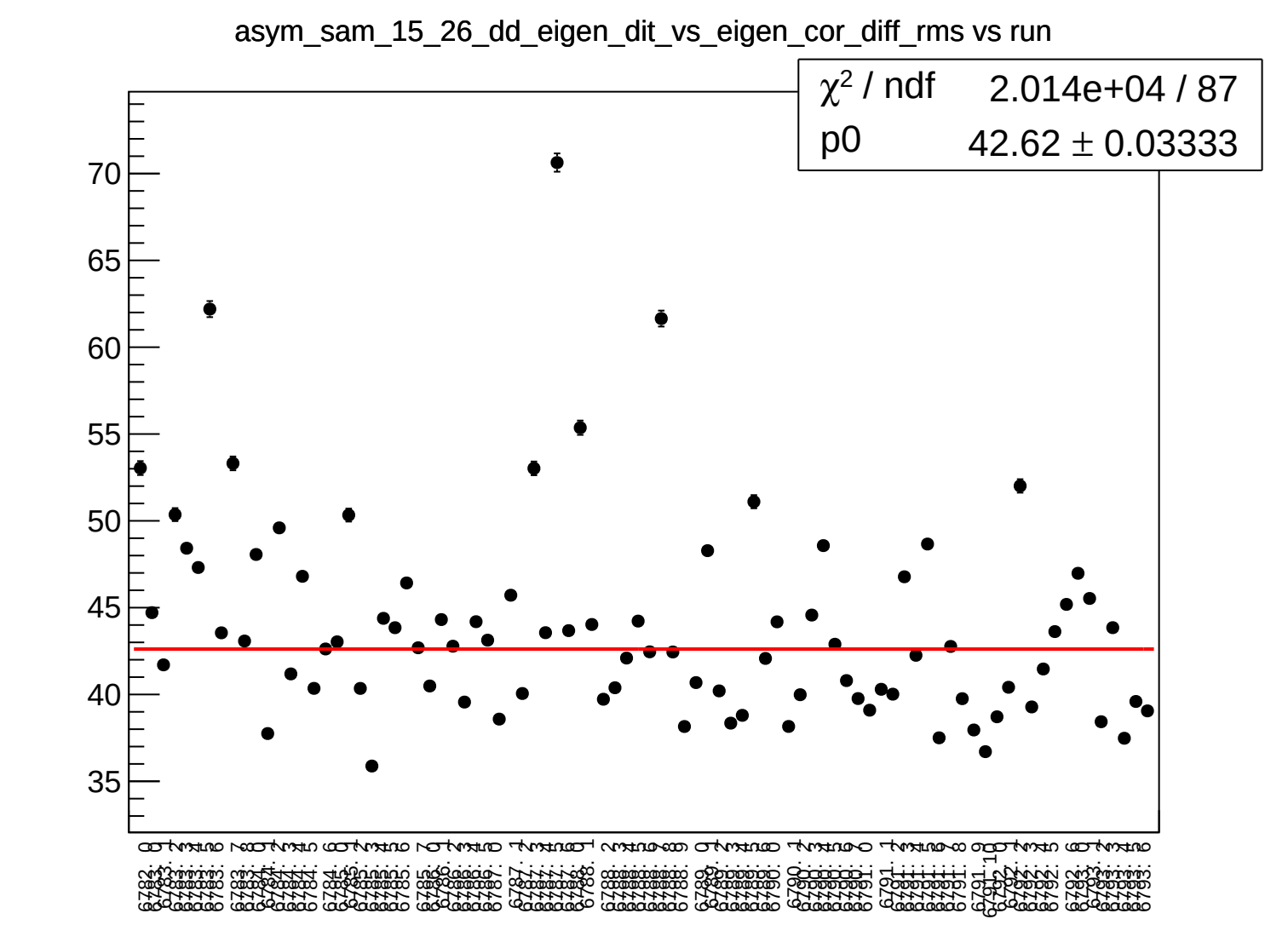

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9780 / 87
p0 0.001791 ± 1.396e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

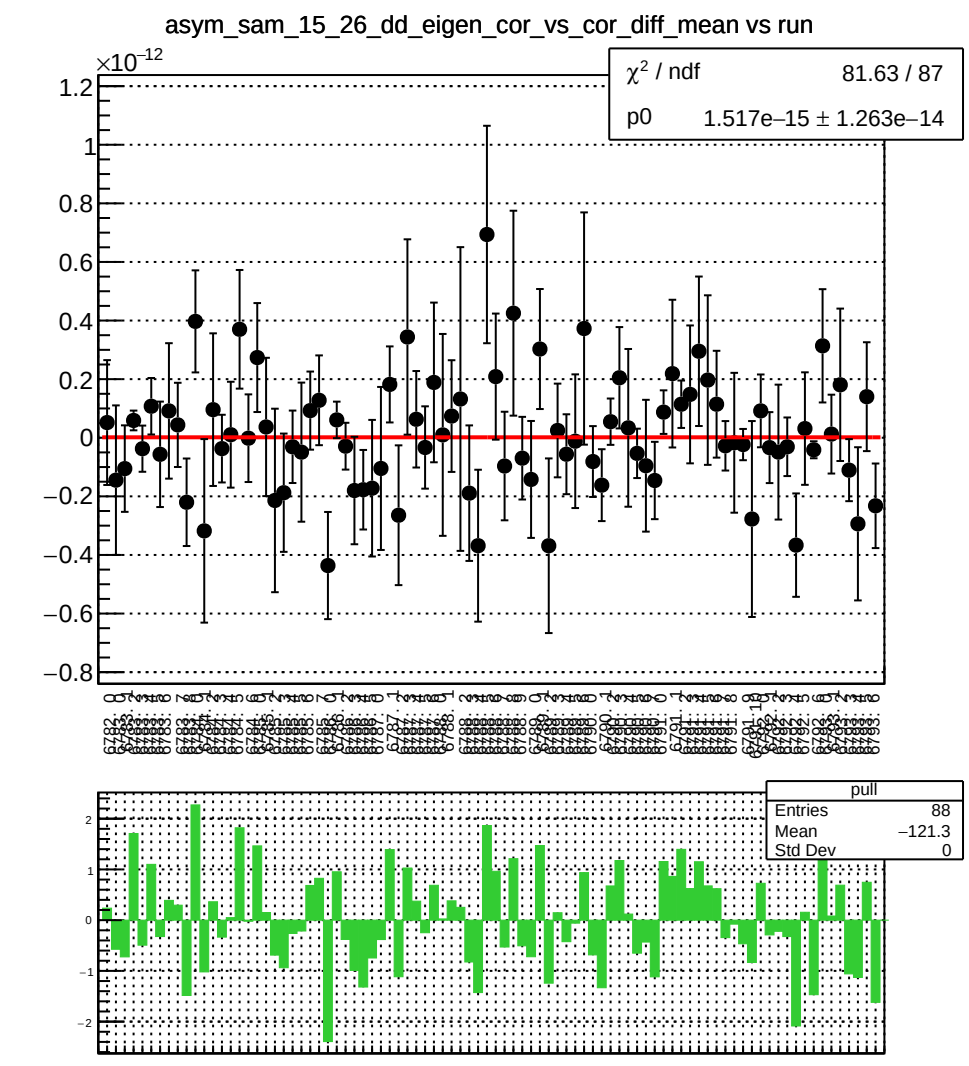

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 87
p0 −0.1659 ± 0.04714
pull
Entries 88
Mean −26.28
Std Dev 0
pull1D
Entries 88
Mean −0.02473
Std Dev 0.9864

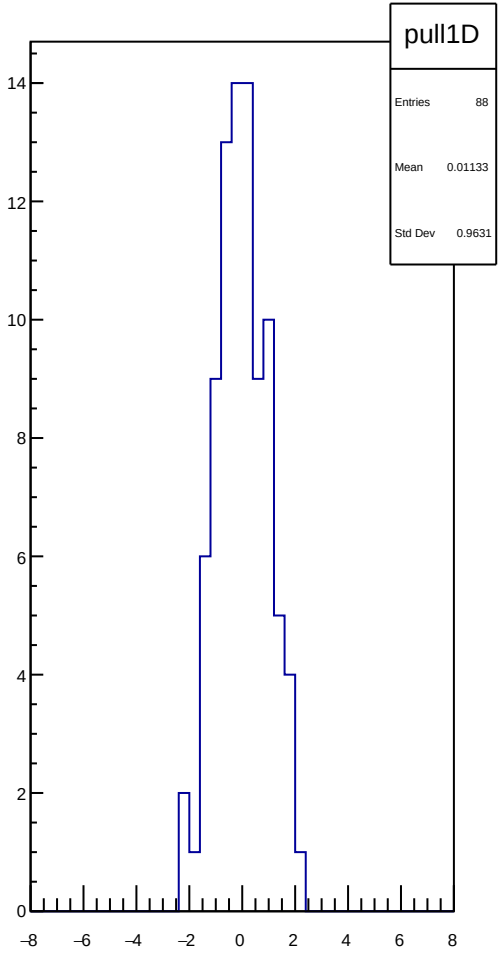

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.014e+04 / 87
p0 42.62 ± 0.03333
70
65
60
55
50
45
40
35

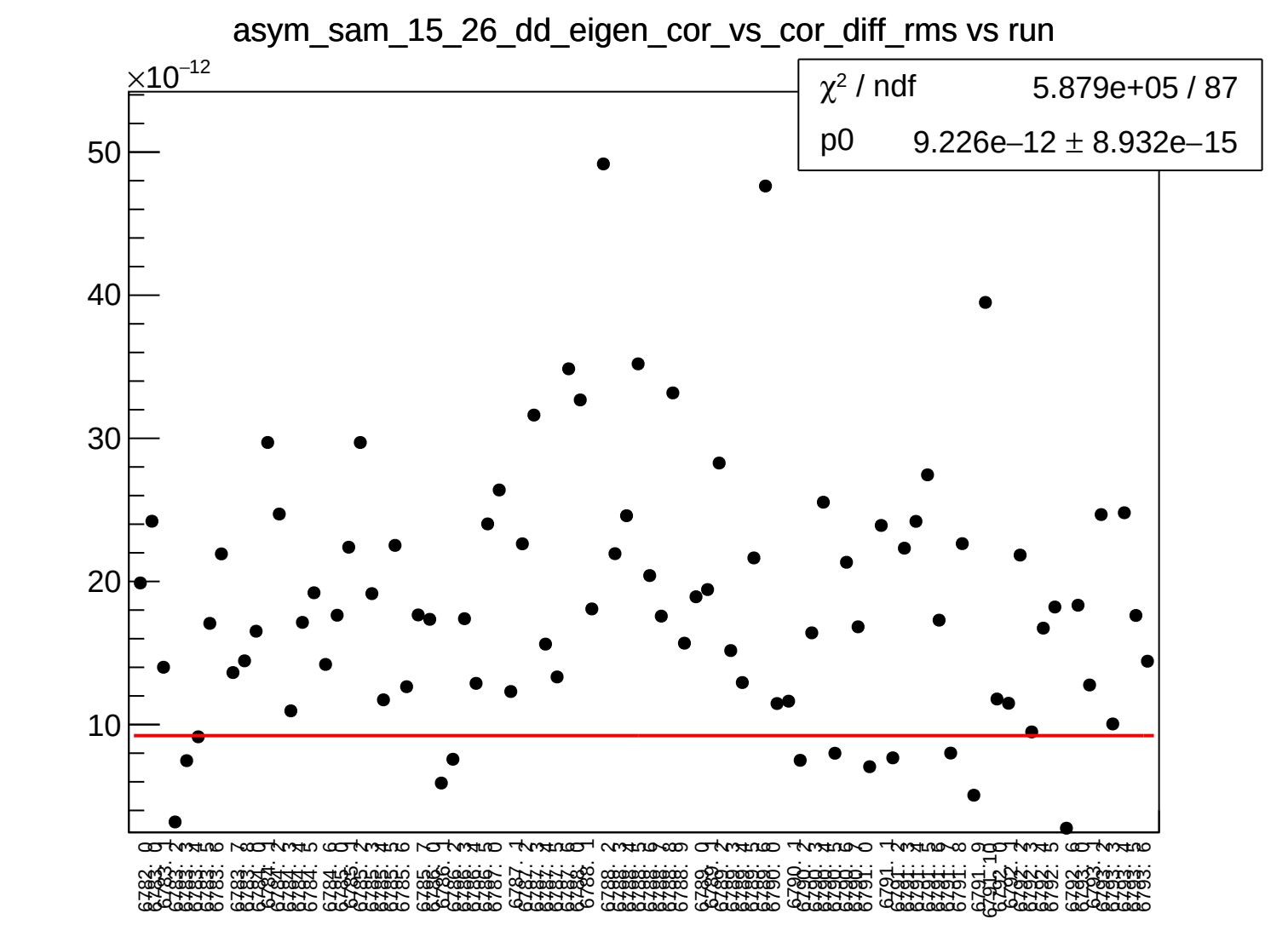

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.68 / 87
p0 −0.1659 ± 0.04714
pull
Entries 88
Mean −26.28
Std Dev 0

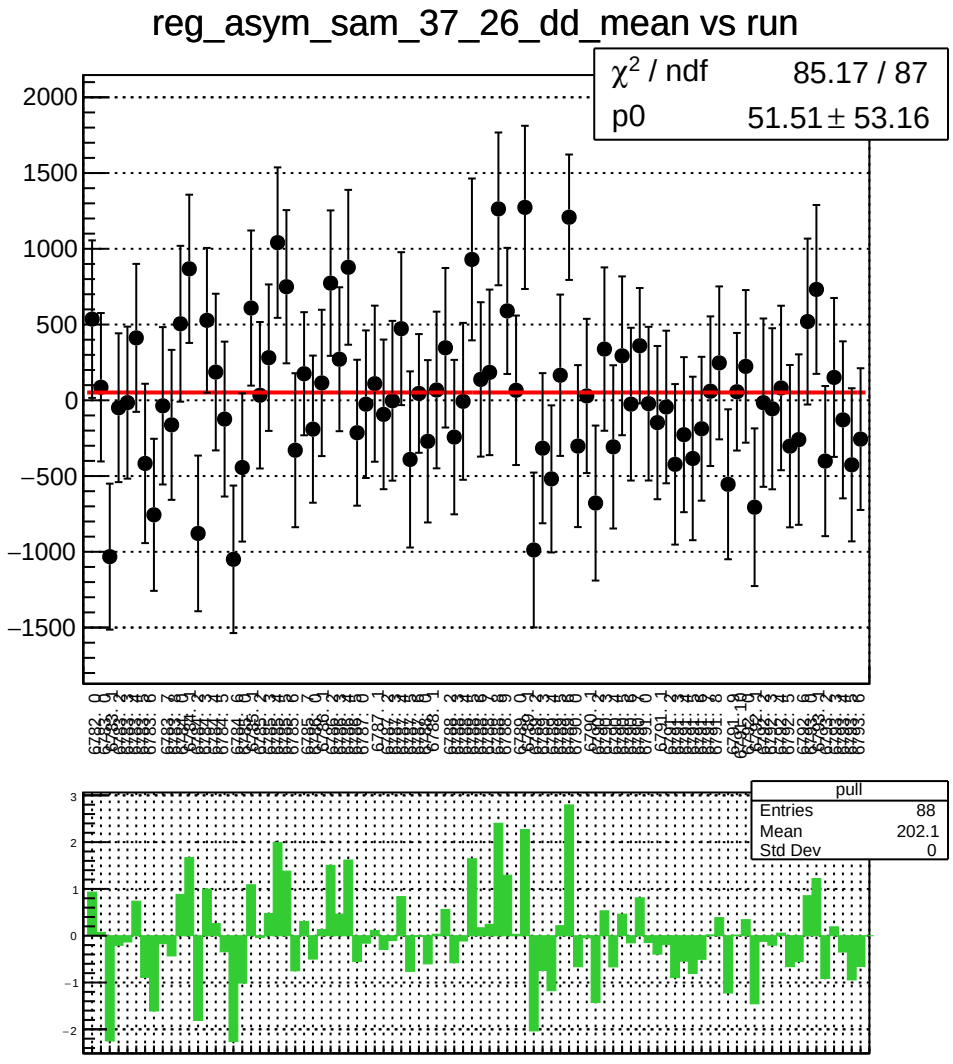

pull1D
Entries 88
Mean −0.02473
Std Dev 0.9864

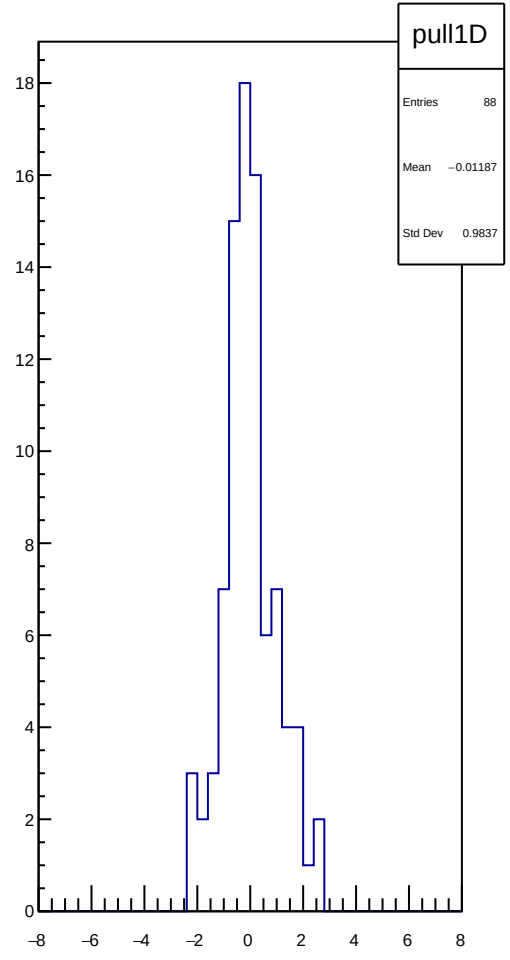

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.014e+04 / 87
p0 42.62 ± 0.03333
70
65
60
55
50
45
40
35

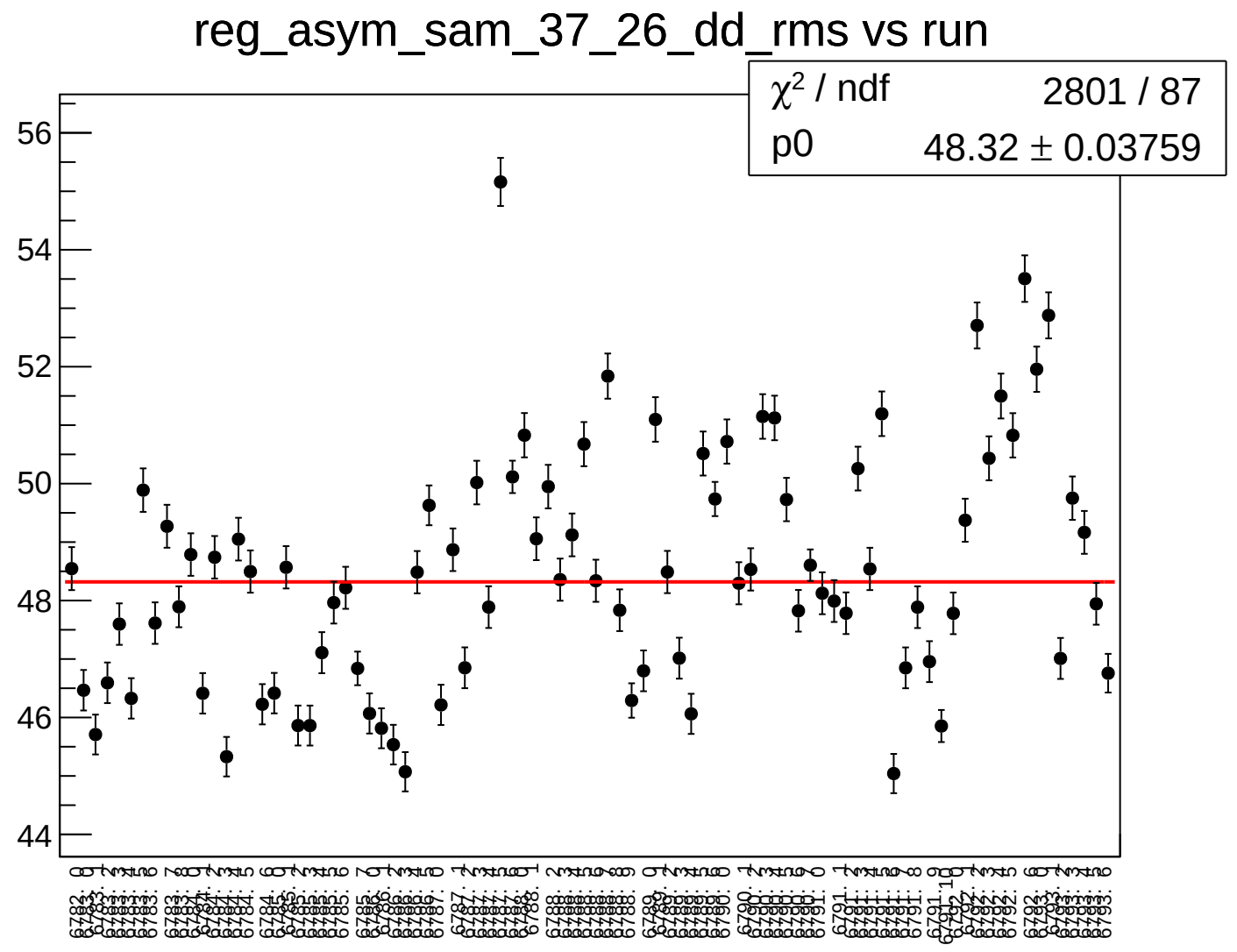

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.63 / 87
p0 1.517e−15 ± 1.263e−14
pull
Entries 88
Mean −121.3
Std Dev 0

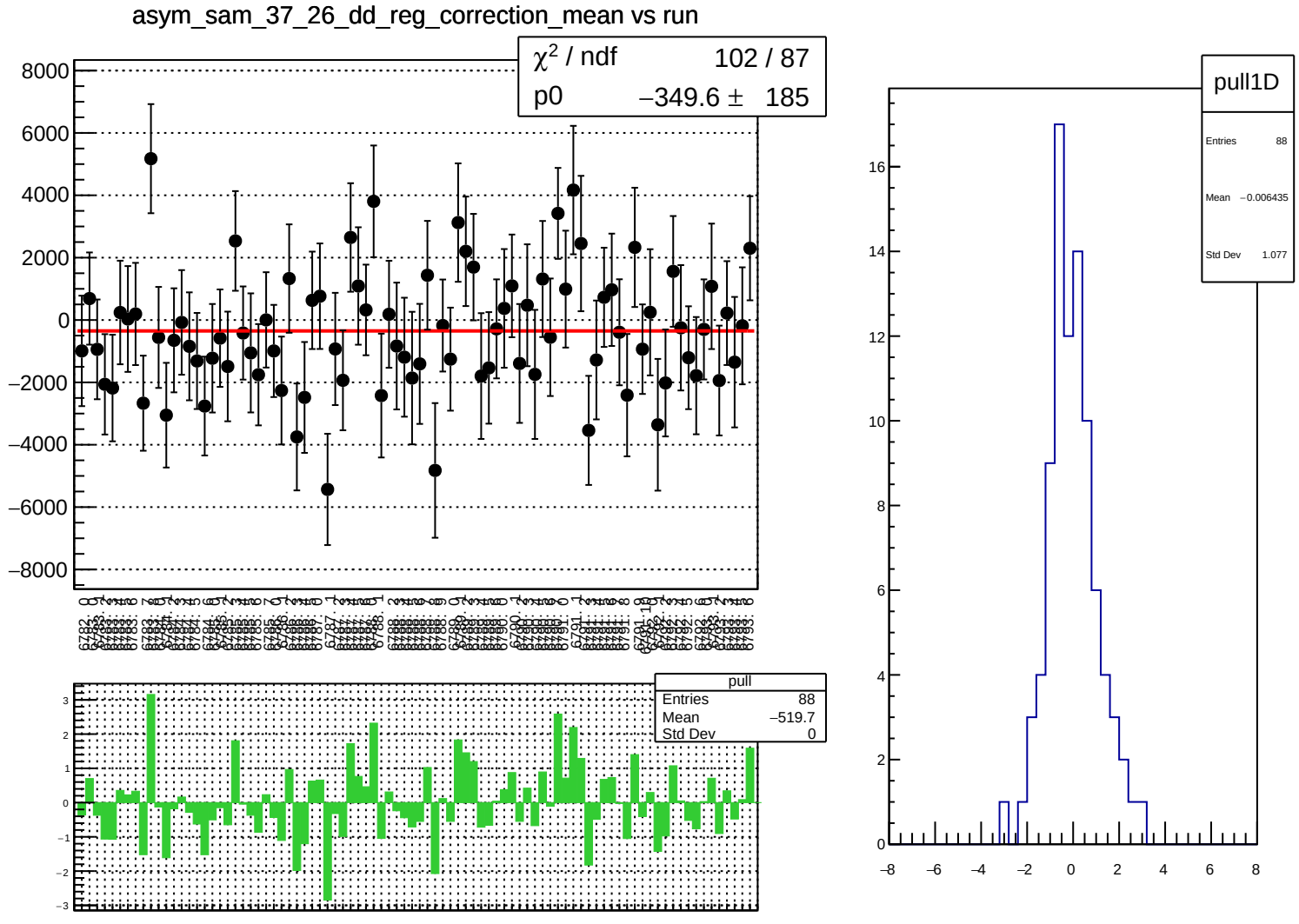

pull1D
Entries 88
Mean 0.01133
Std Dev 0.9631

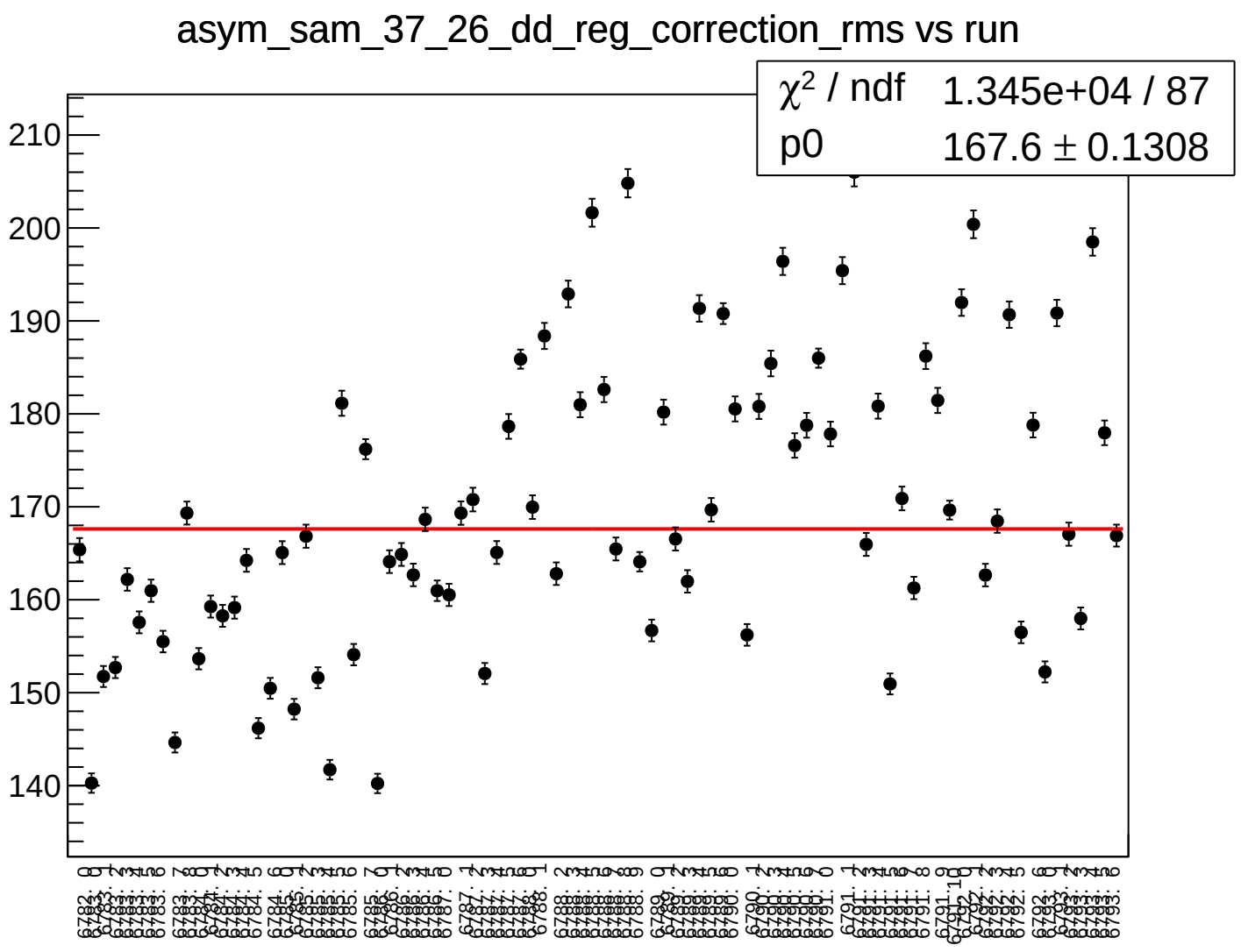

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.879e+05 / 87
p0 9.226e−12 ± 8.932e−15
50
40
30
20
10

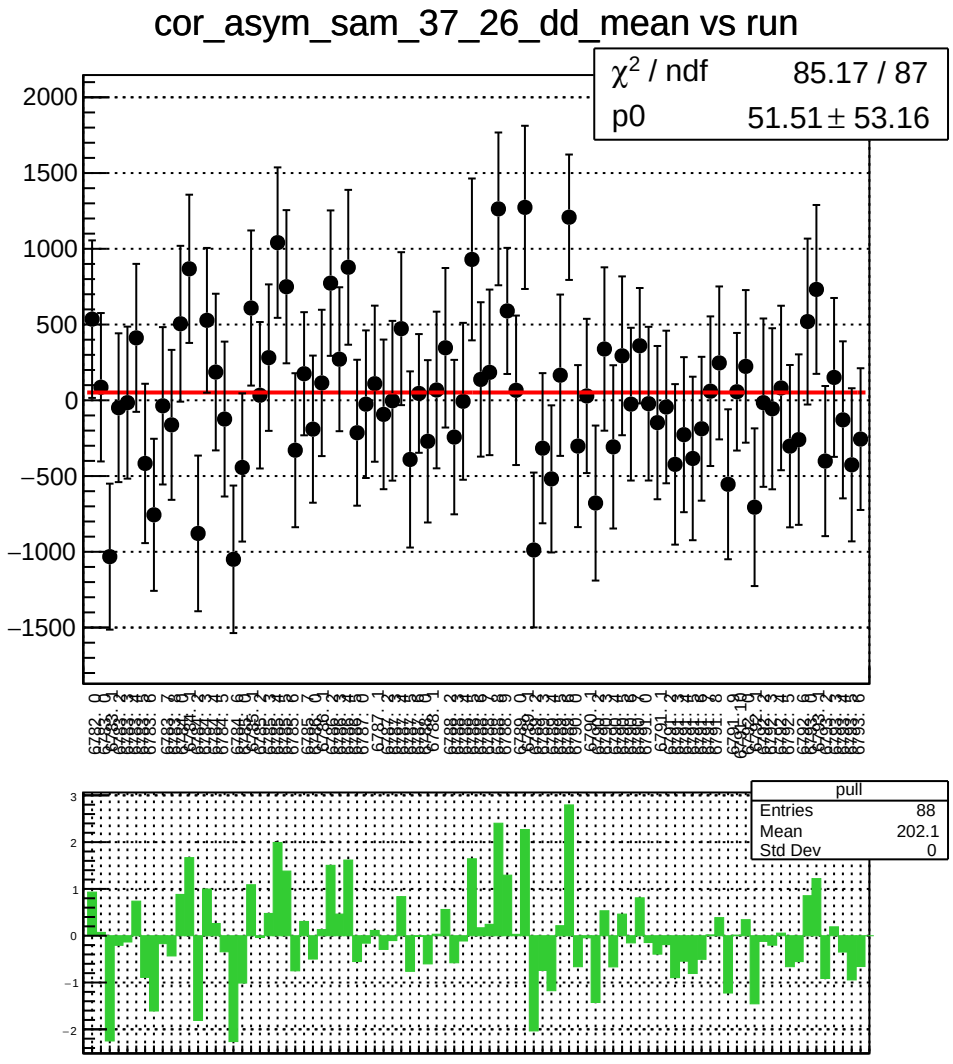

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.17 / 87
p0 51.51 ± 53.16
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 202.1
Std Dev 0
3
2
1
0
−1
−2

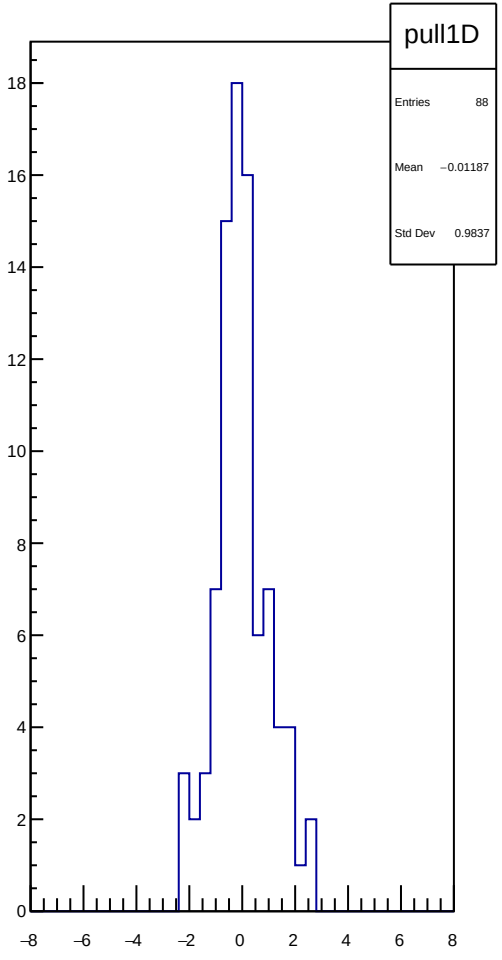

pull1D
Entries 88
Mean −0.01187
Std Dev 0.9837
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

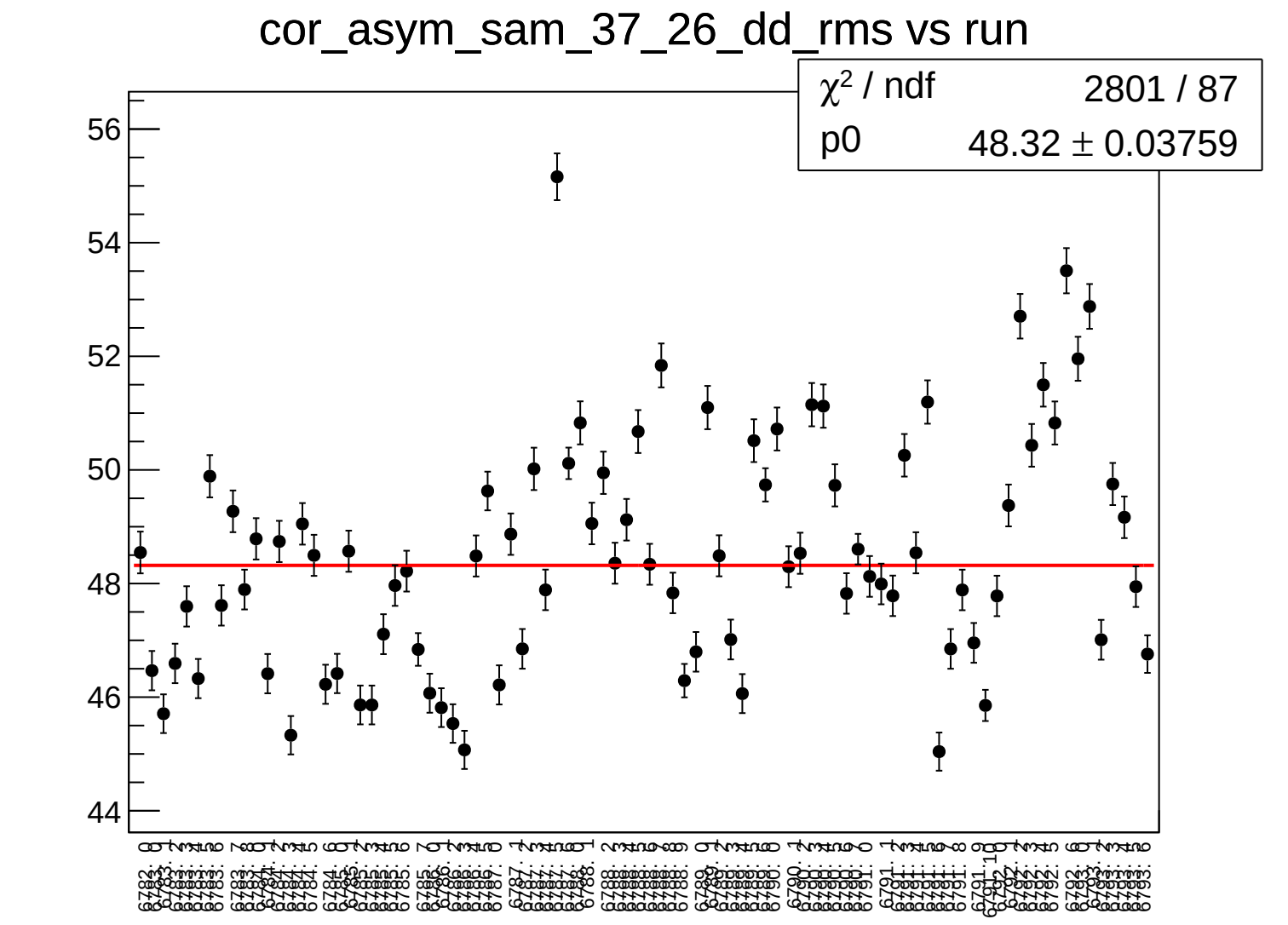

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2801 / 87
p0 48.32 ± 0.03759
56
54
52
50
48
46
44

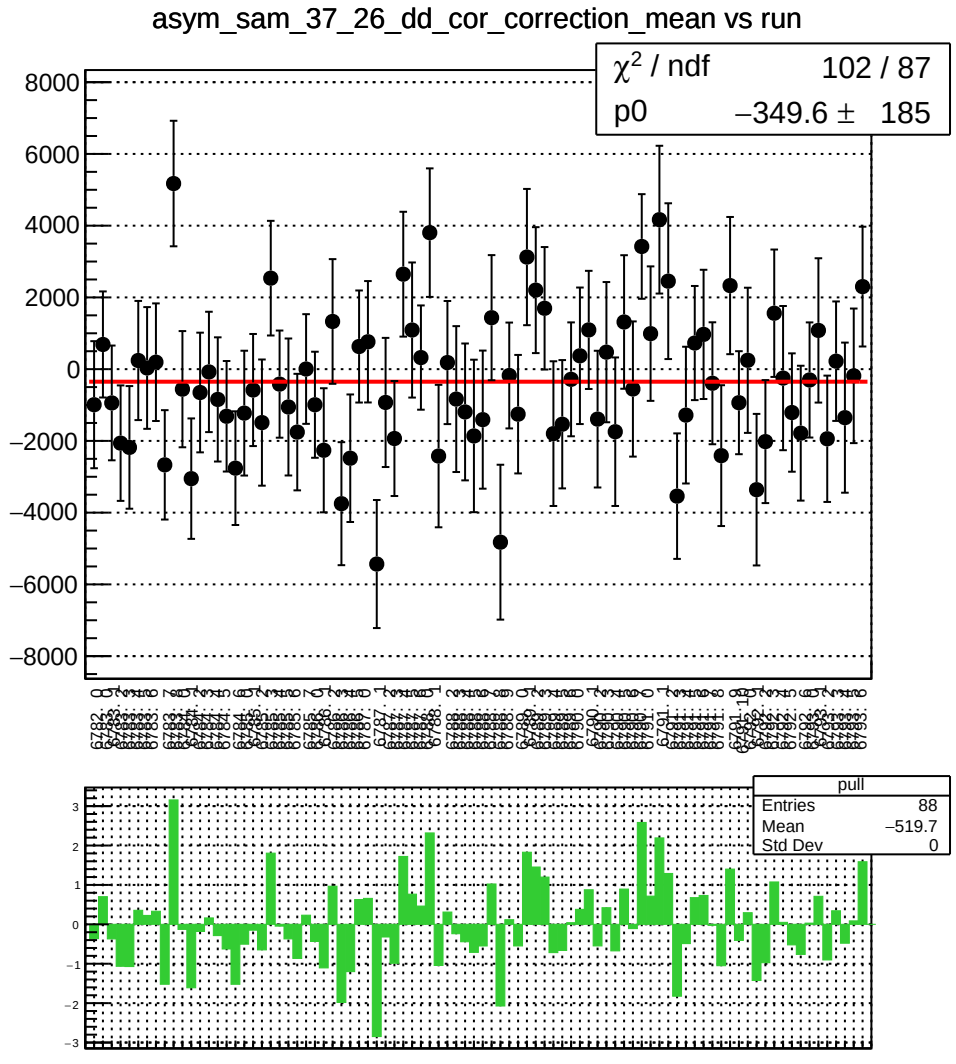

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 102 / 87
p0 −349.6 ± 185
pull
Entries 88
Mean −519.7
Std Dev 0
pull1D
Entries 88
Mean −0.006435
Std Dev 1.077

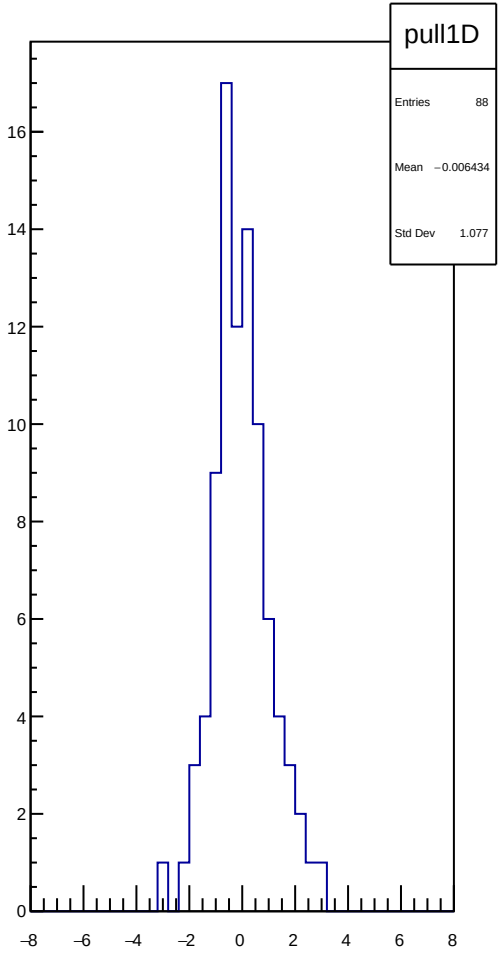

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.345e+04 / 87
p0 167.6 ± 0.1308
210
200
190
180
170
160
150
140

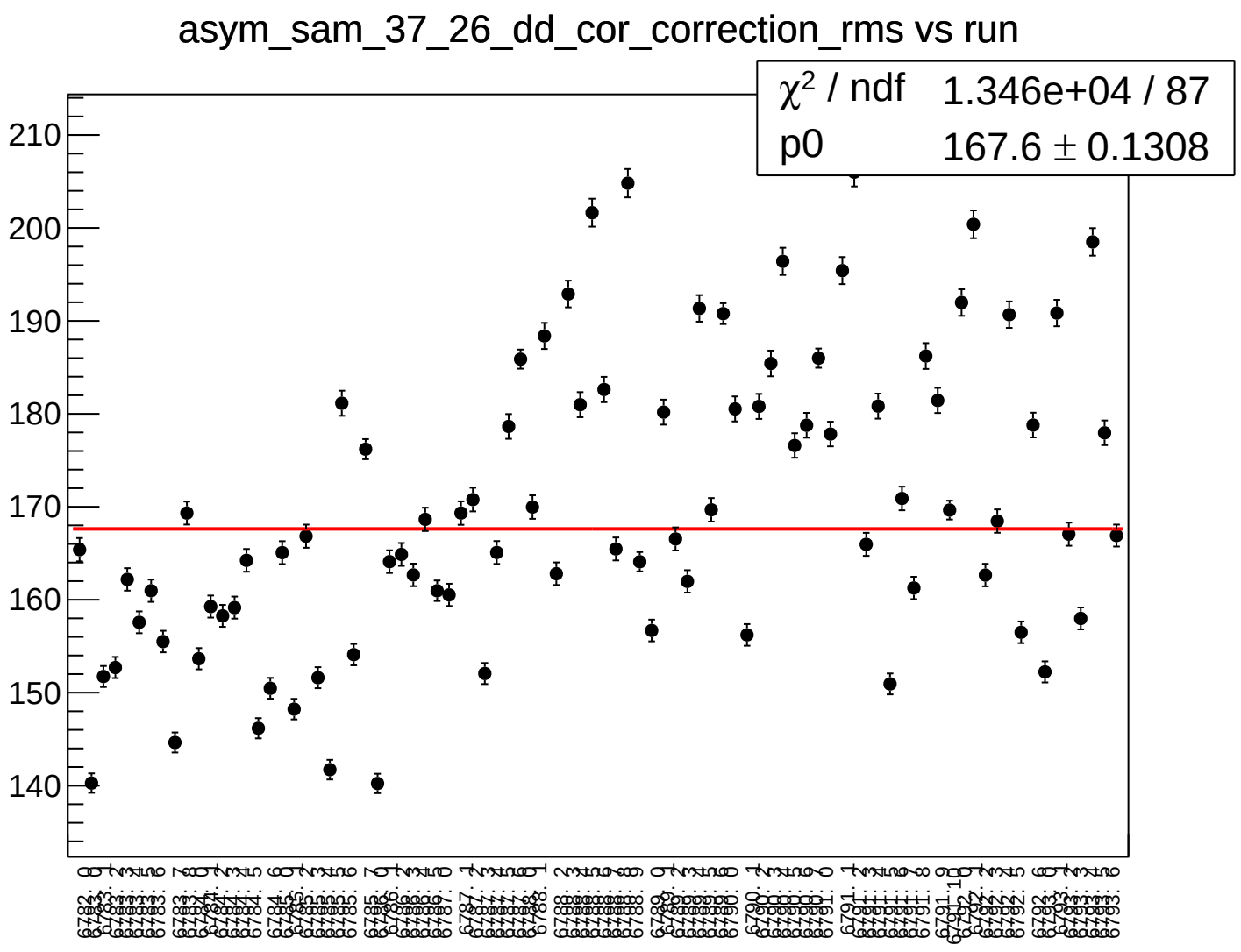

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.17 / 87
p0 51.51 ± 53.16
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 202.1
Std Dev 0
3
2
1
0
−1
−2

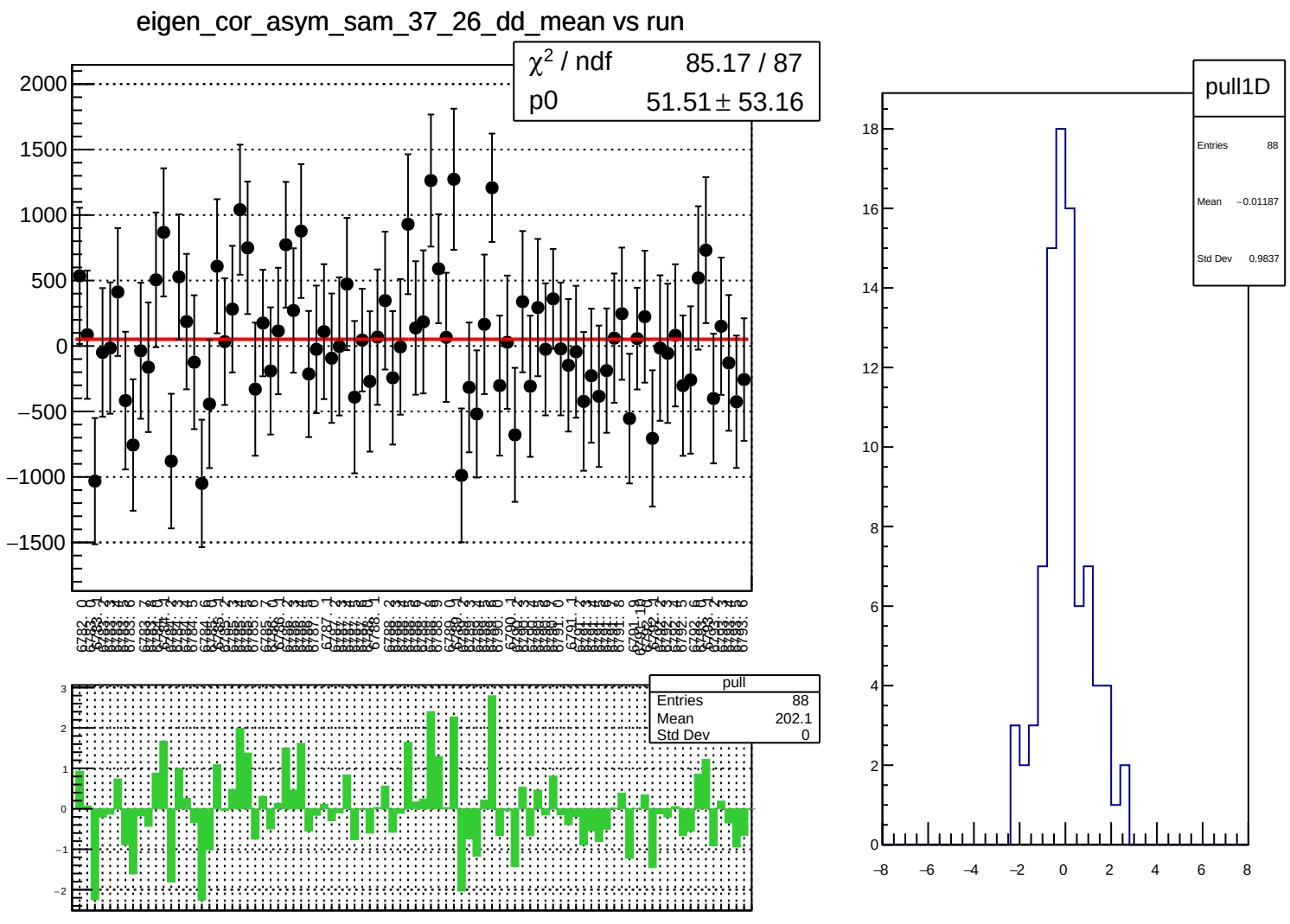

pull1D
Entries 88
Mean −0.01187
Std Dev 0.9837
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

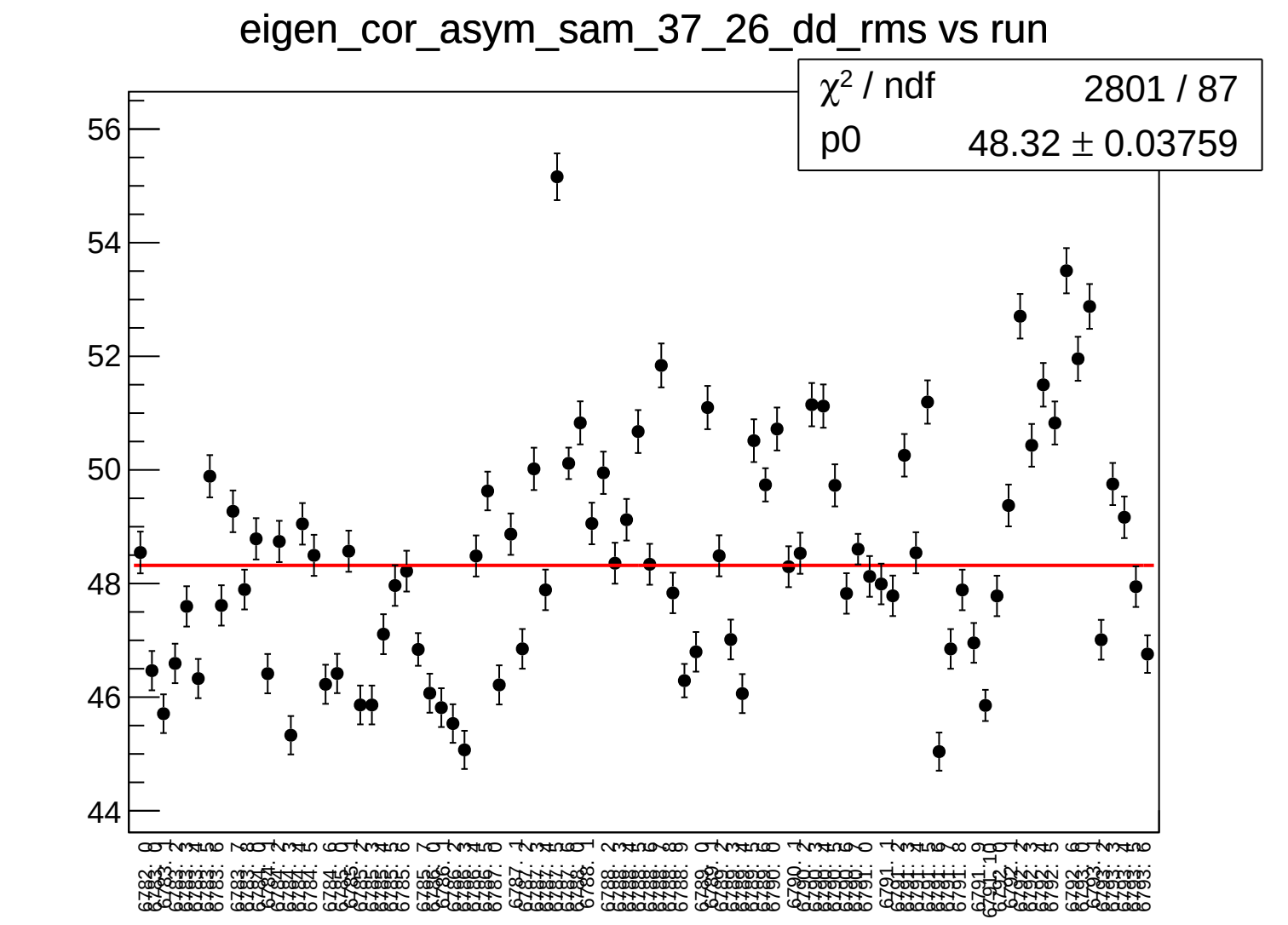

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2801 / 87
p0 48.32 ± 0.03759
56
54
52
50
48
46
44

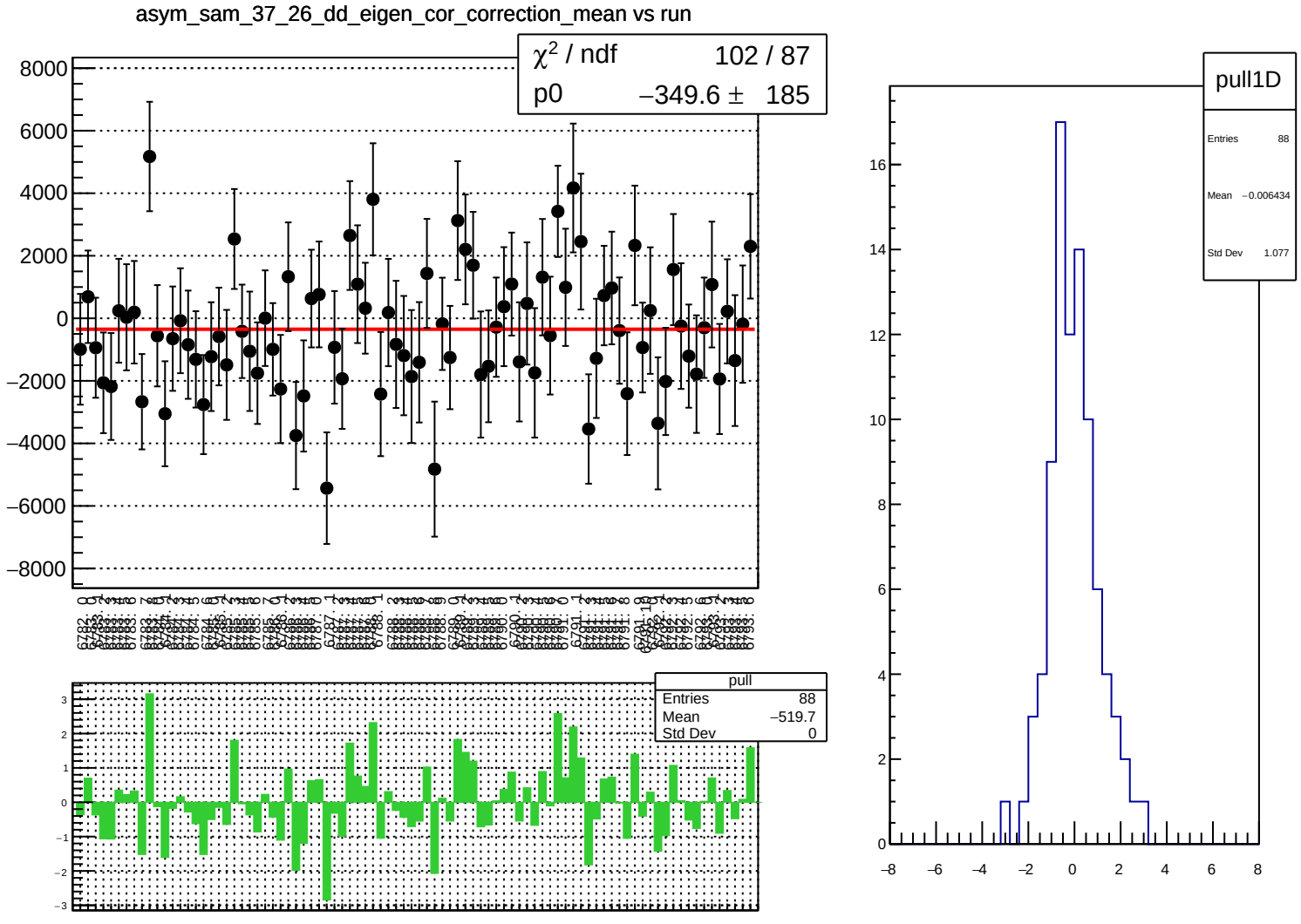

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 102 / 87
p0 −349.6 ± 185
pull
Entries 88
Mean −519.7
Std Dev 0

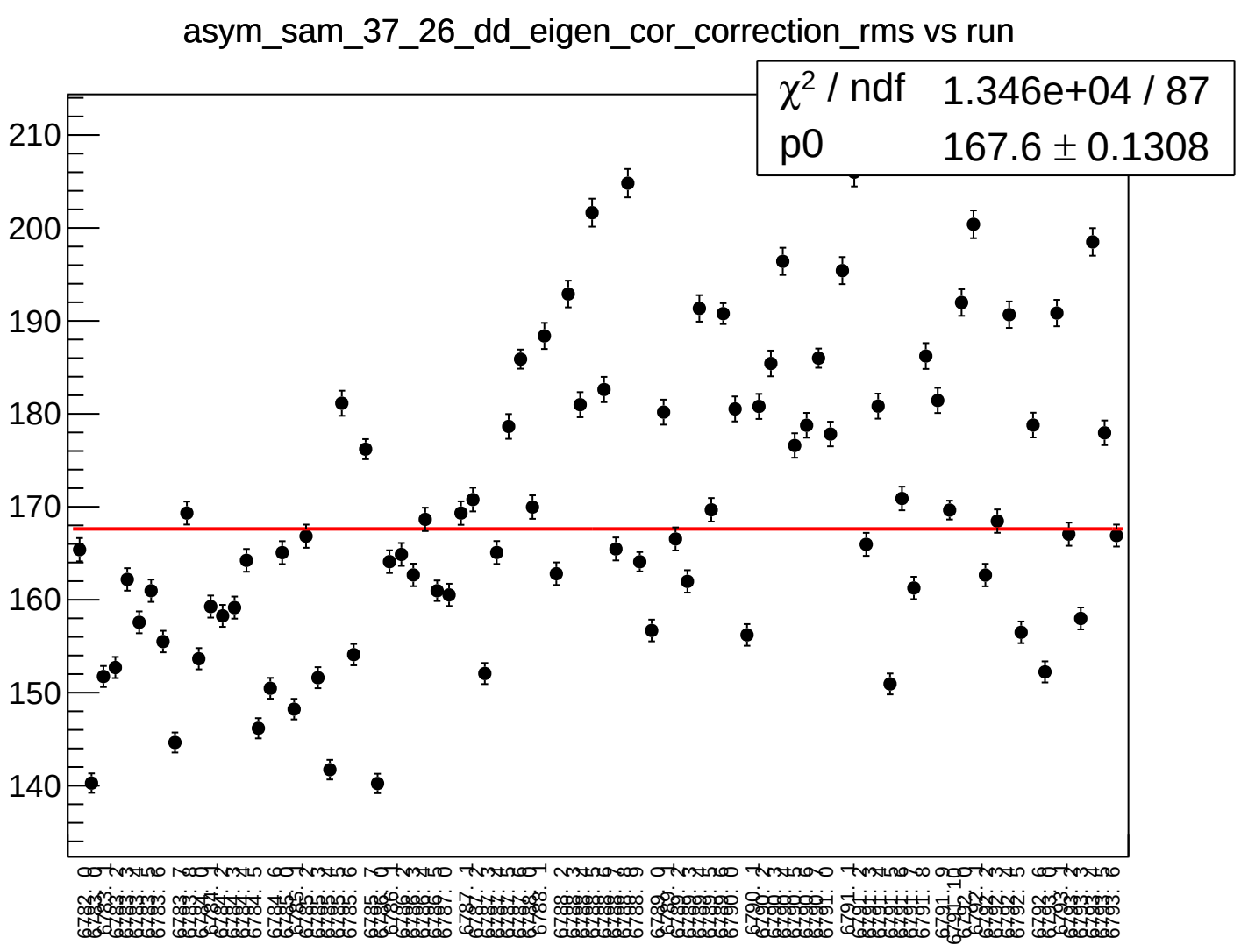

pull1D
Entries 88
Mean −0.006434
Std Dev 1.077

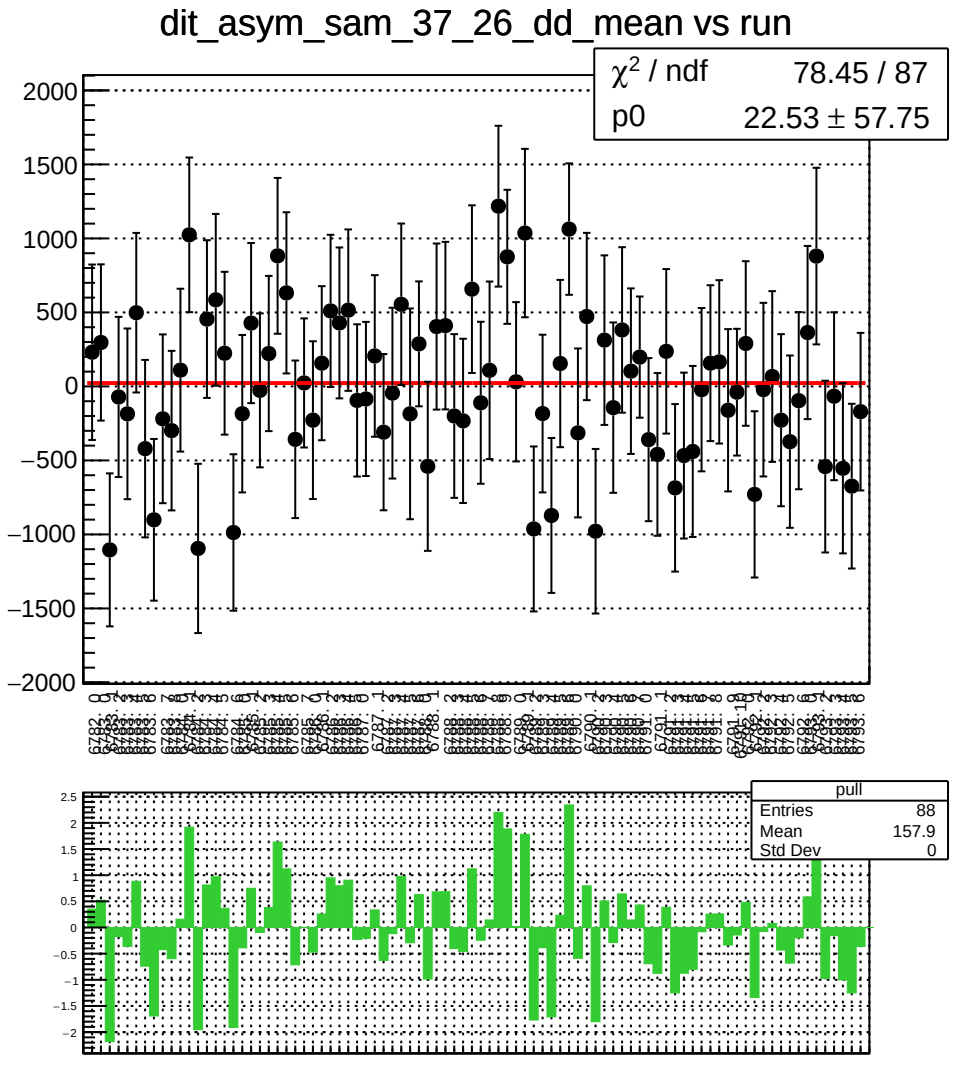

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.346e+04 / 87
p0 167.6 ± 0.1308
210
200
190
180
170
160
150
140

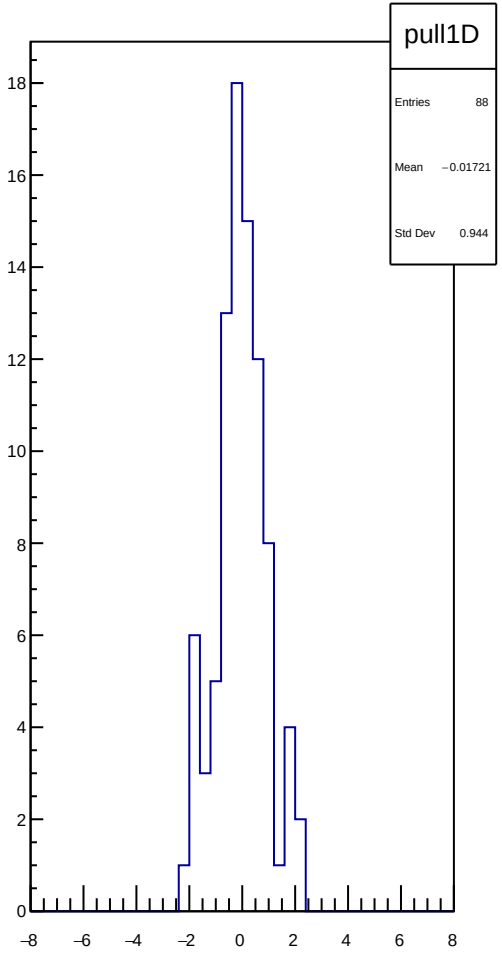

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.17 / 87
p0 51.51 ± 53.16
pull
Entries 88
Mean 202.1
Std Dev 0
pull1D
Entries 88
Mean −0.01187
Std Dev 0.9837

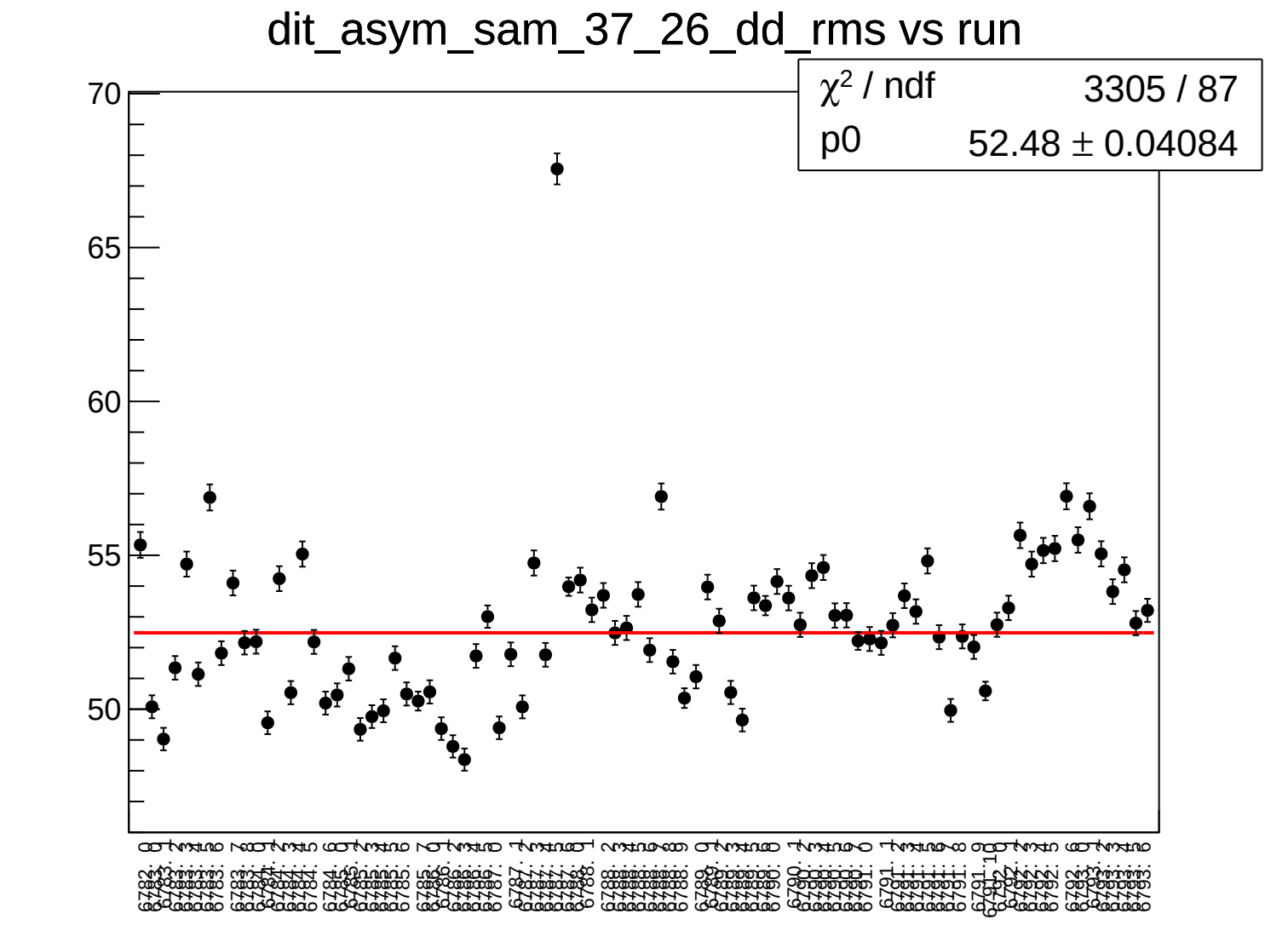

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2801 / 87
p0 48.32 ± 0.03759
56
54
52
50
48
46
44

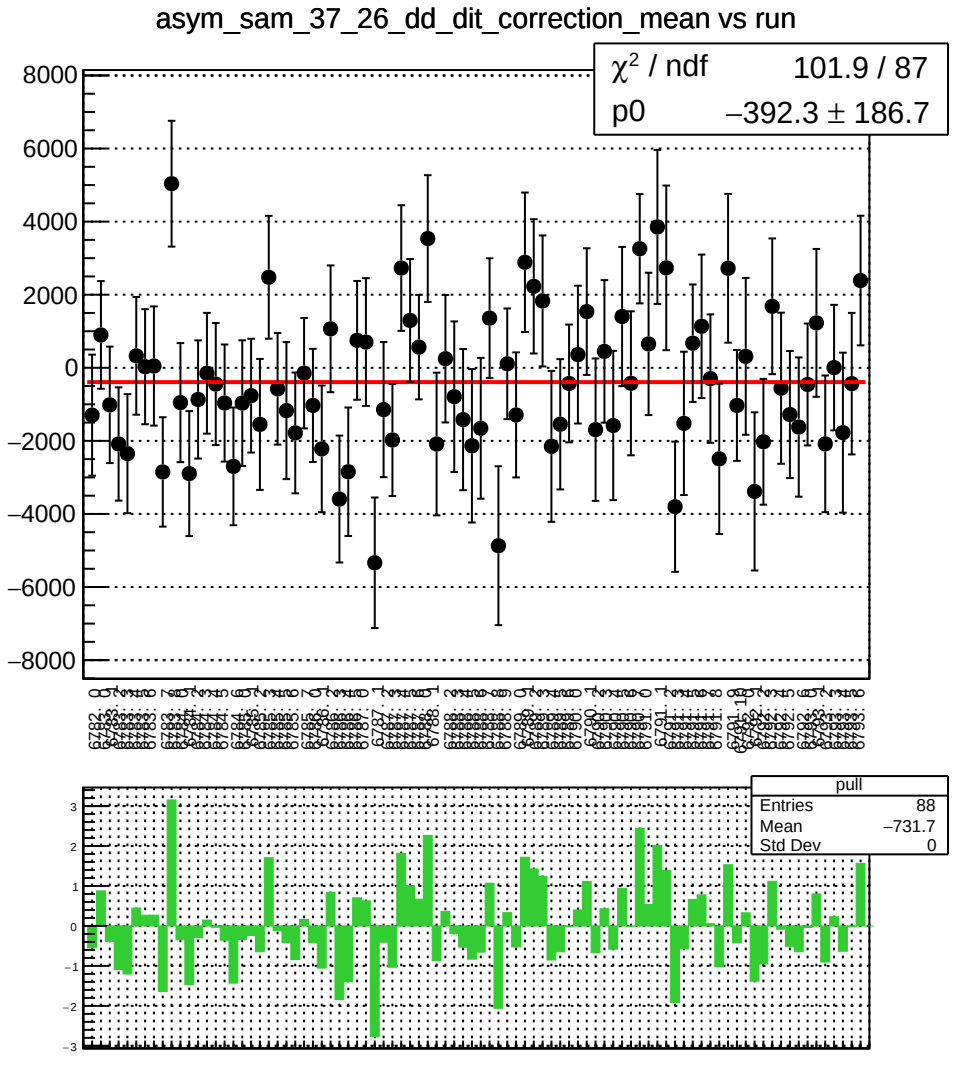

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 102 / 87
p0 −349.6 ± 185
pull
Entries 88
Mean −519.7
Std Dev 0
pull1D
Entries 88
Mean −0.006434
Std Dev 1.077

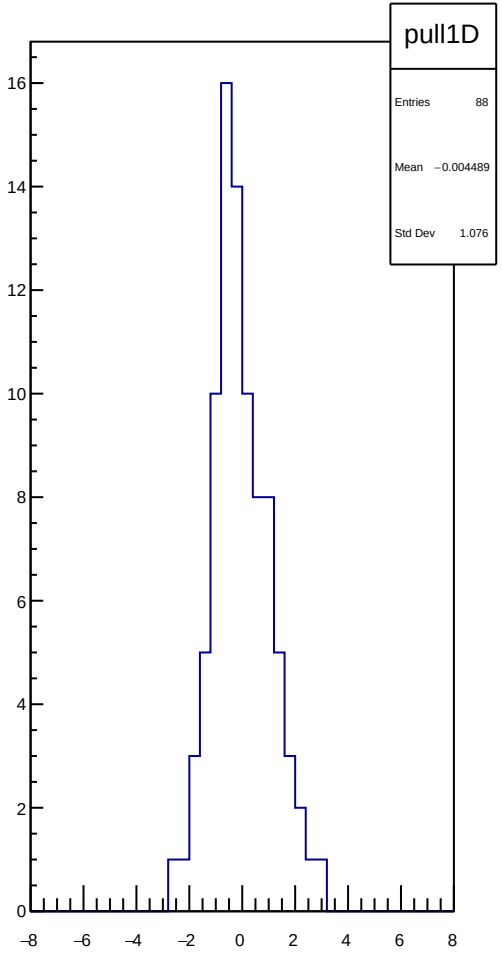

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.346e+04 / 87
p0 167.6 ± 0.1308
210
200
190
180
170
160
150
140

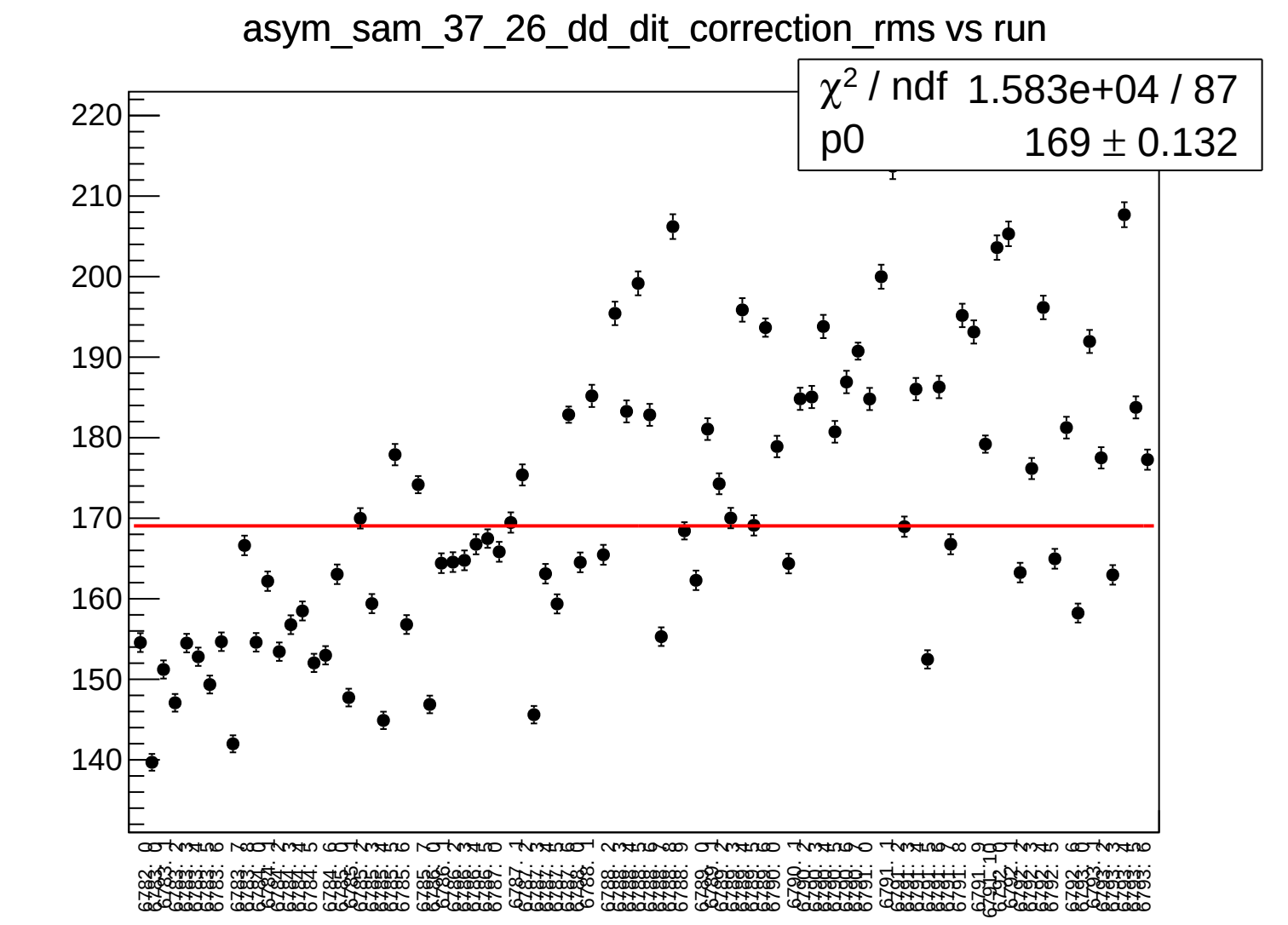

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 78.45 / 87
p0 22.53 ± 57.75
pull
Entries 88
Mean 157.9
Std Dev 0

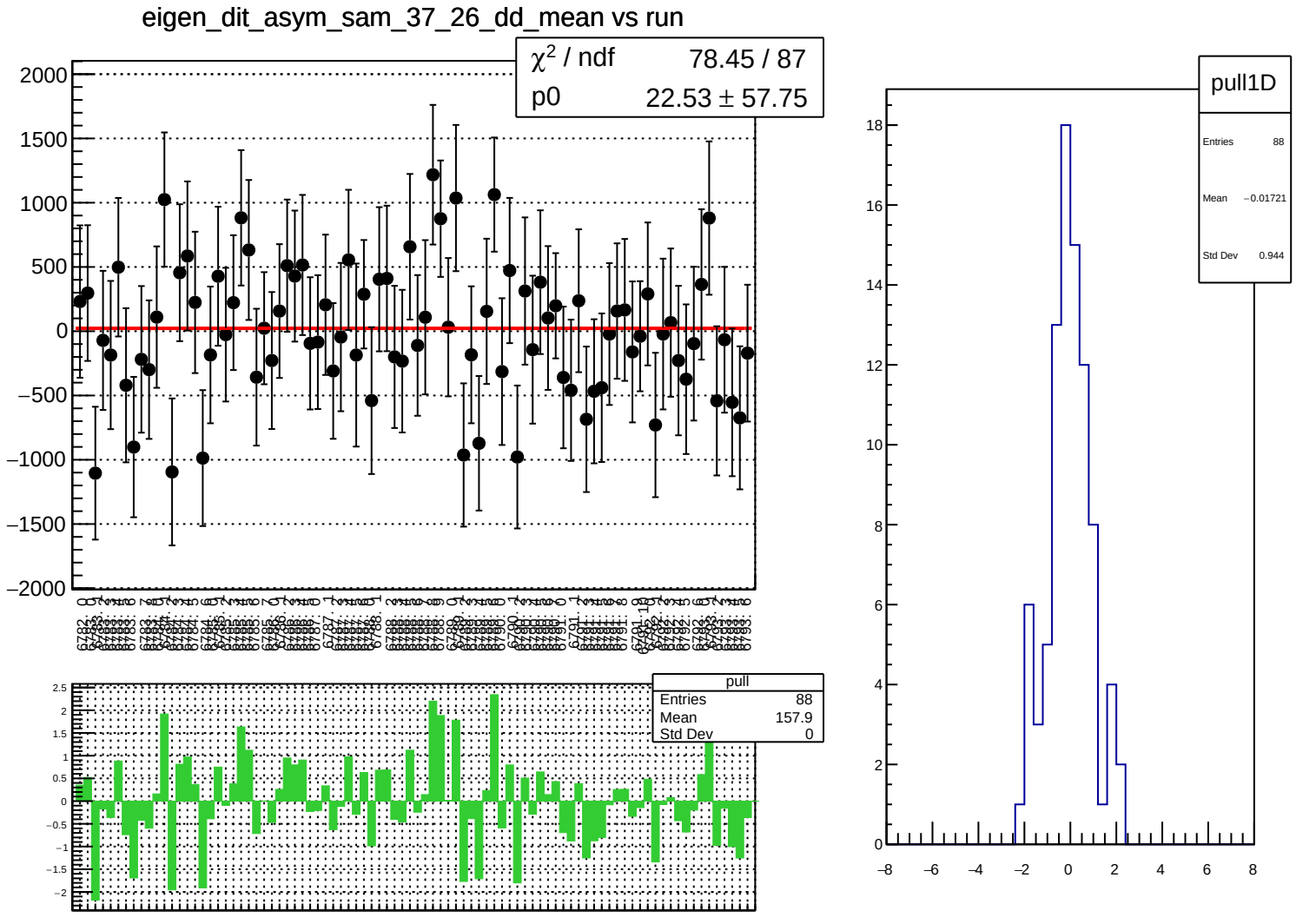

pull1D
Entries 88
Mean −0.01721
Std Dev 0.944

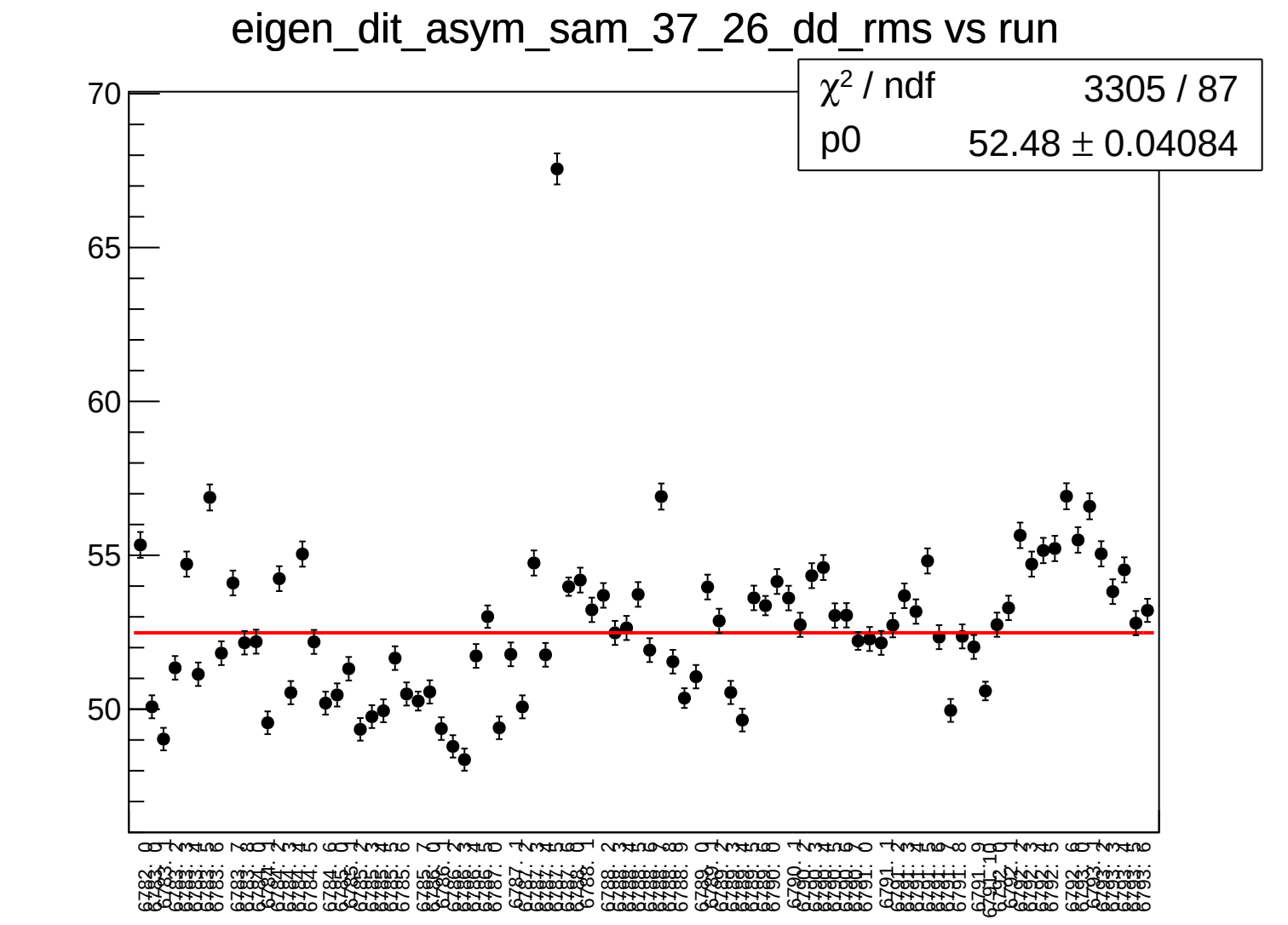

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3305 / 87
p0 52.48 ± 0.04084
70
65
60
55
50

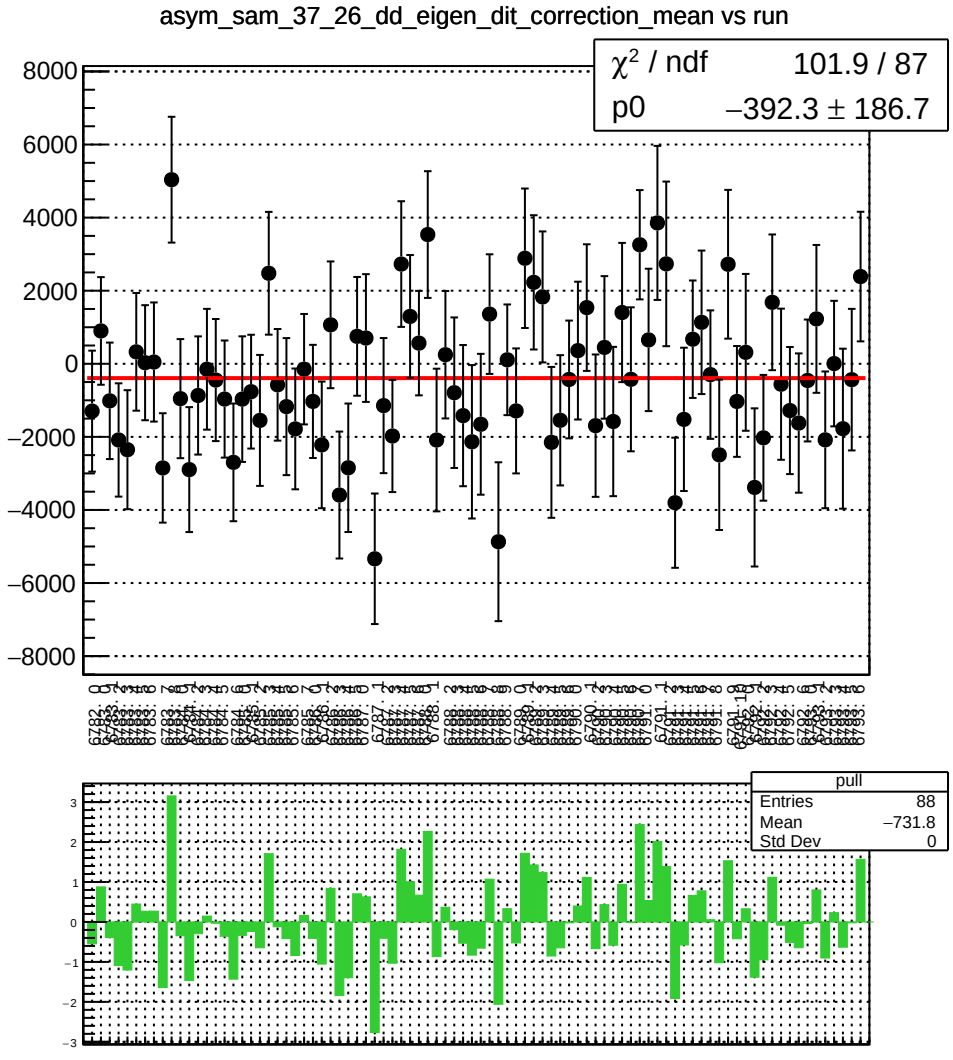

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 101.9 / 87
p0 −392.3 ± 186.7
pull
Entries 88
Mean −731.7
Std Dev 0

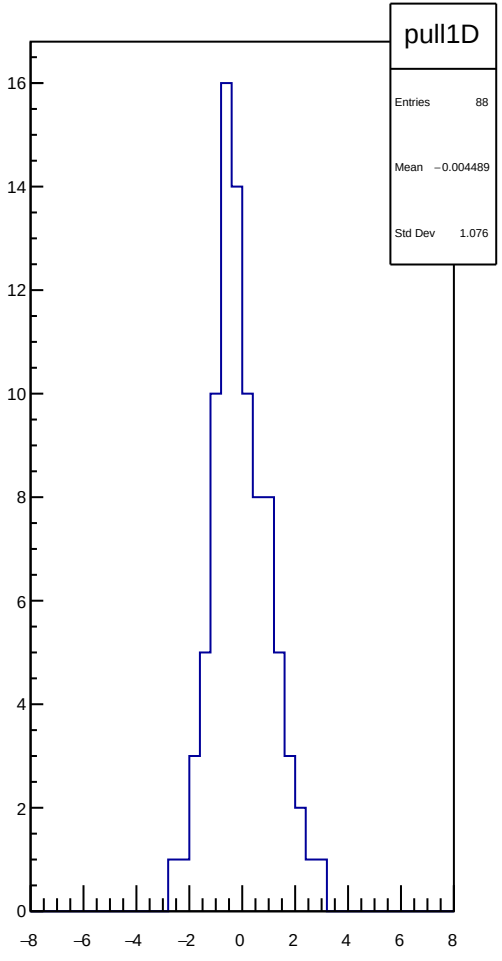

pull1D
Entries 88
Mean −0.004489
Std Dev 1.076

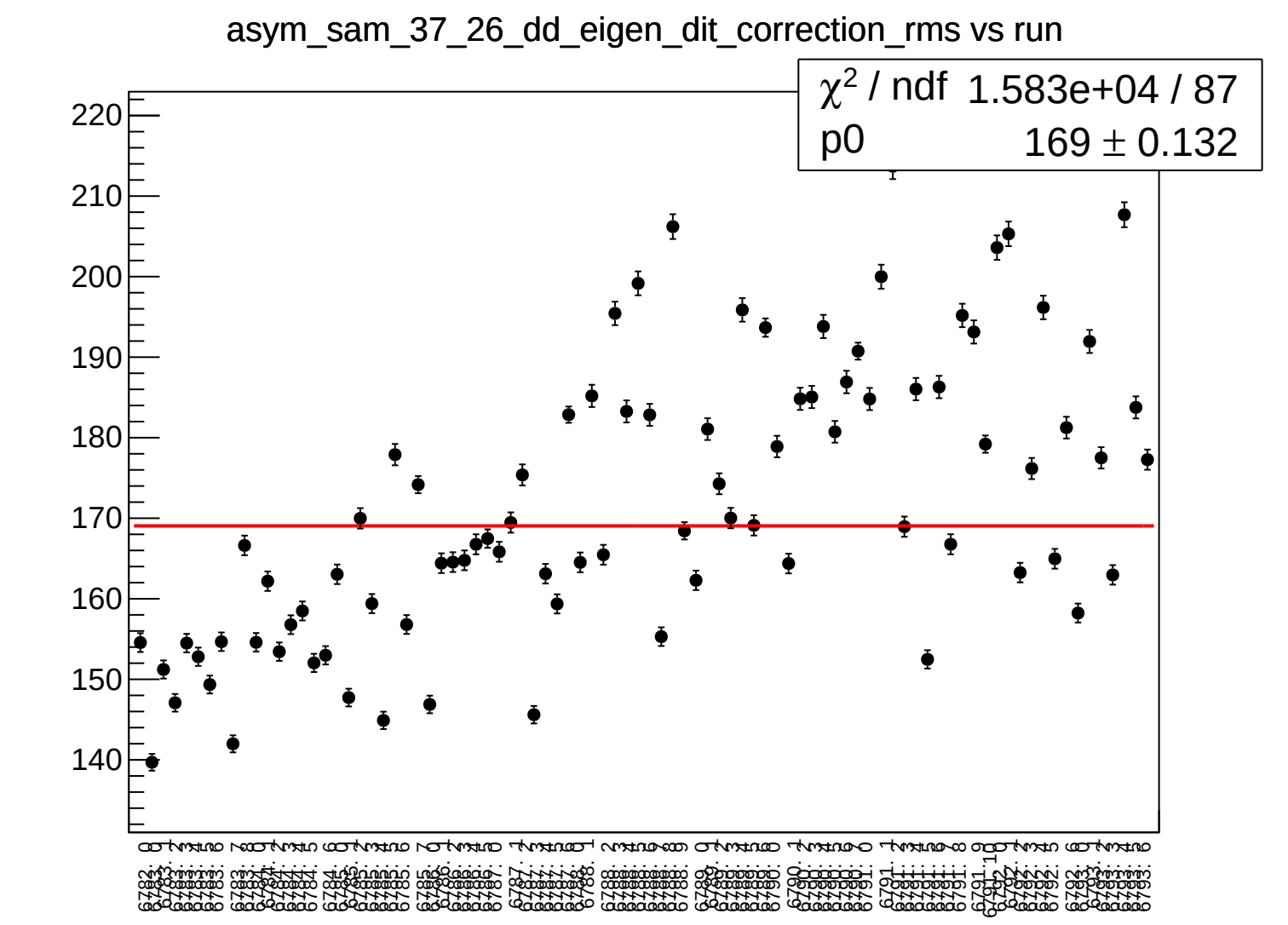

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.583e+04 / 87
p0 169 ± 0.132
220
210
200
190
180
170
160
150
140

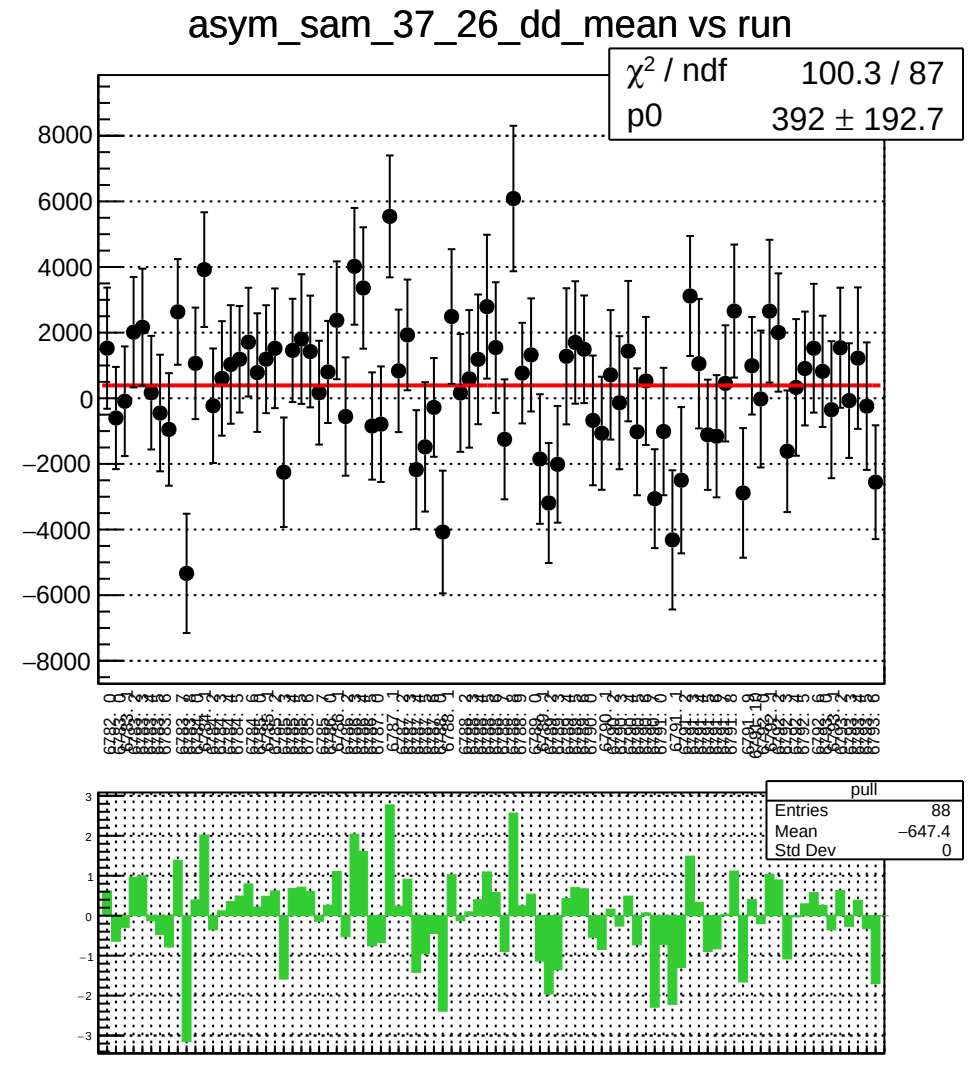

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 78.45 / 87
p0 22.53 ± 57.75
pull
Entries 88
Mean 157.9
Std Dev 0
pull1D
Entries 88
Mean −0.01721
Std Dev 0.944

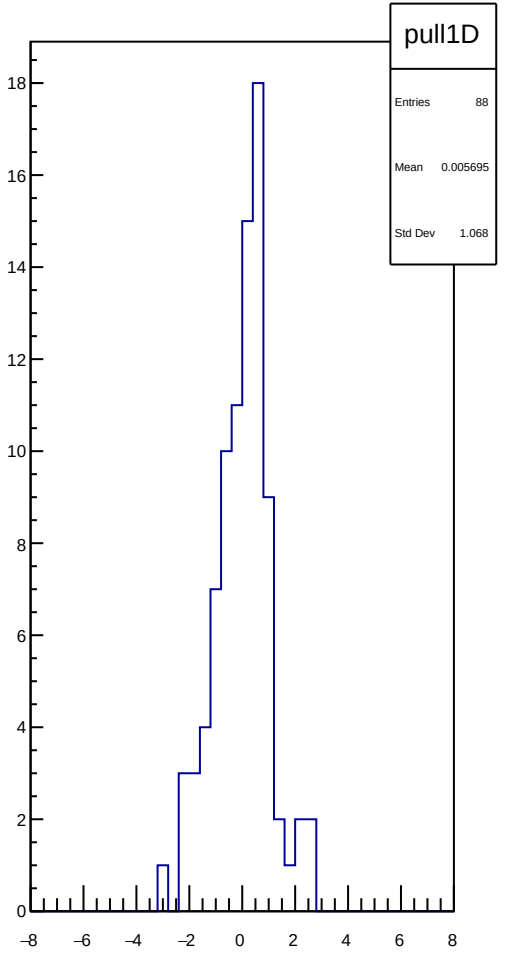

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3305 / 87
p0 52.48 ± 0.04084
70
65
60
55
50

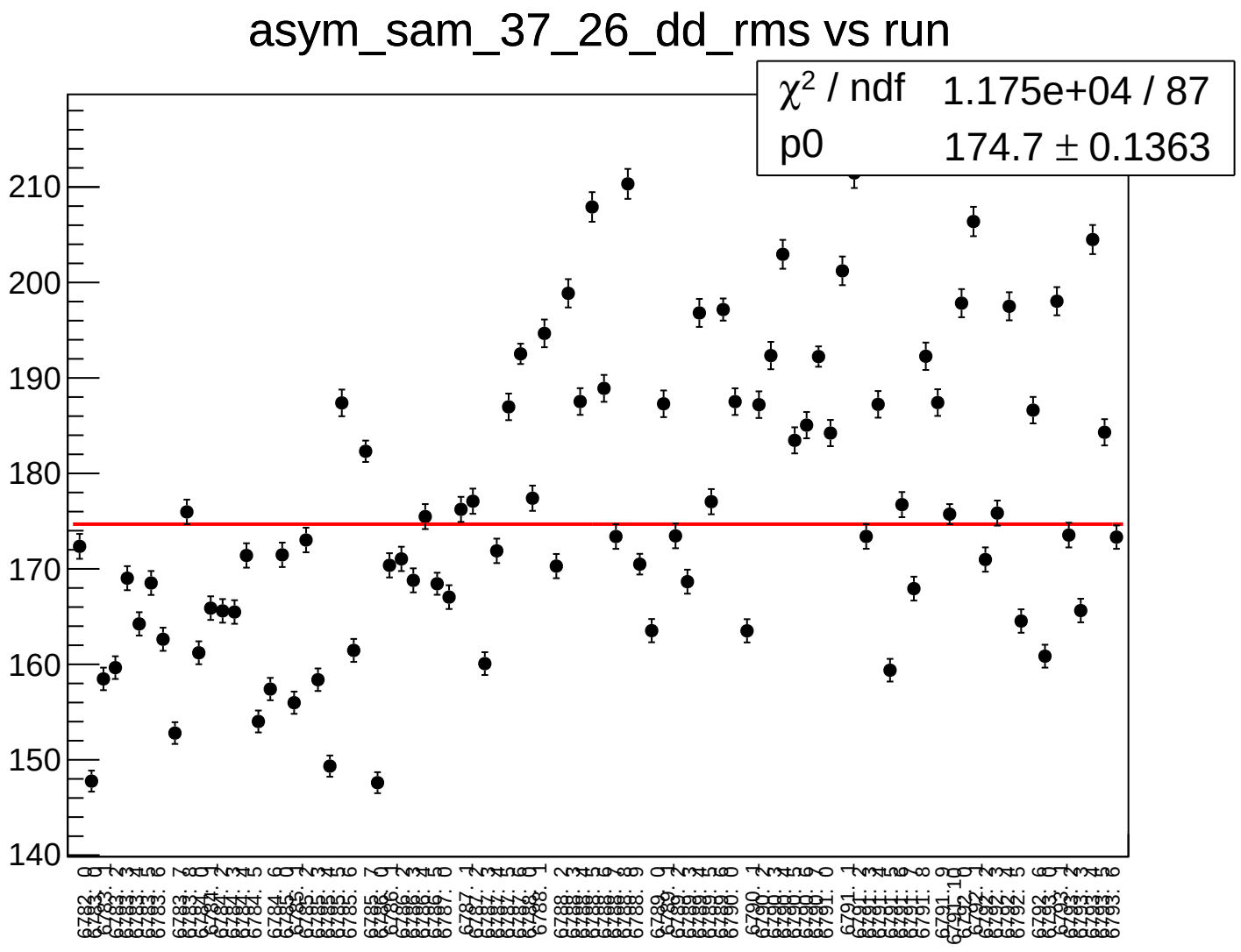

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 87
p0 −392.3 ± 186.7
pull
Entries 88
Mean −731.8
Std Dev 0

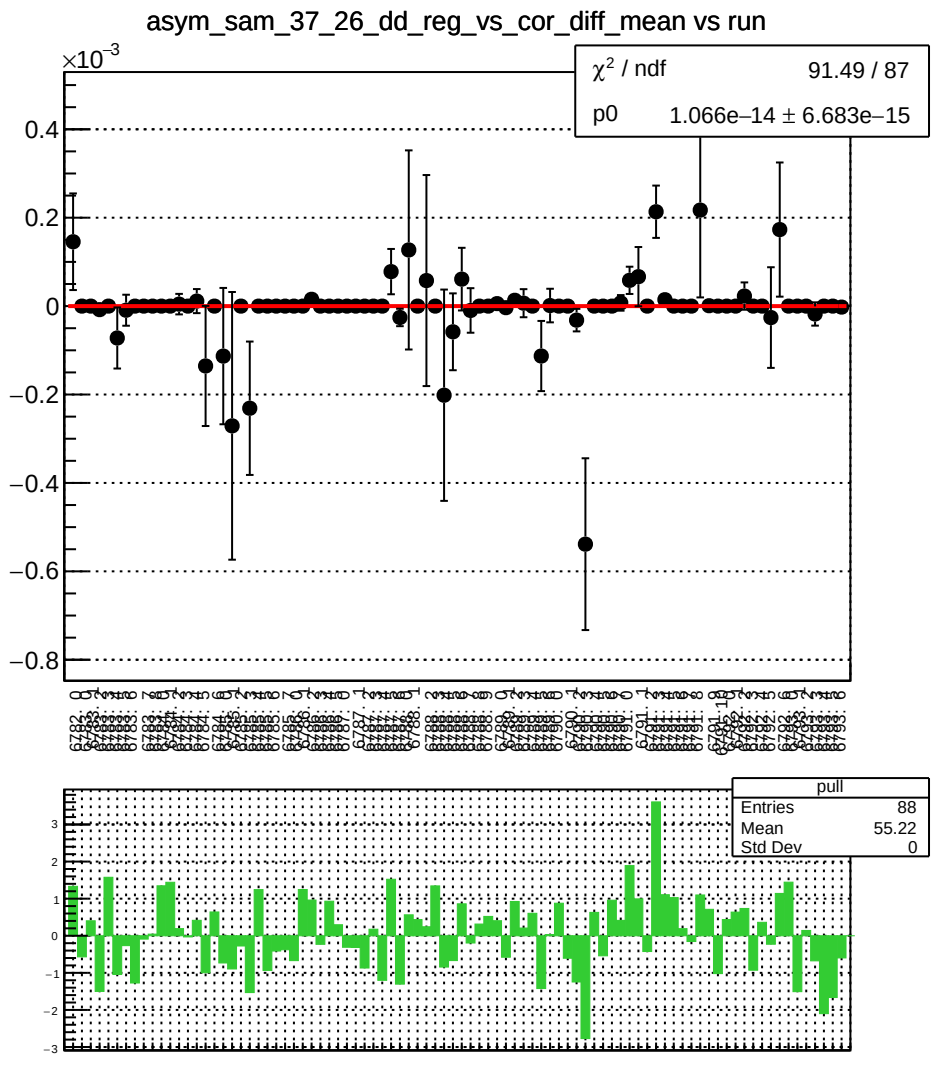

pull1D
Entries 88
Mean −0.004489
Std Dev 1.076

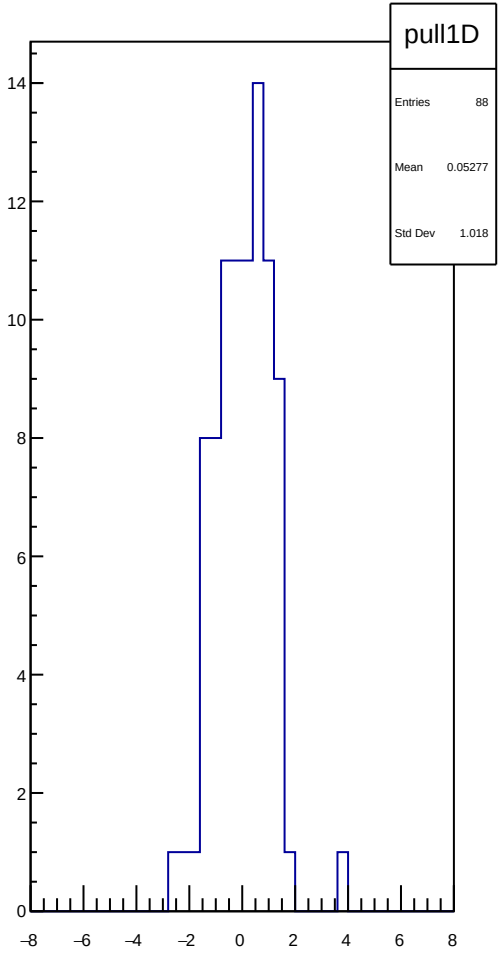

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.583e+04 / 87
p0 169 ± 0.132
220
210
200
190
180
170
160
150
140

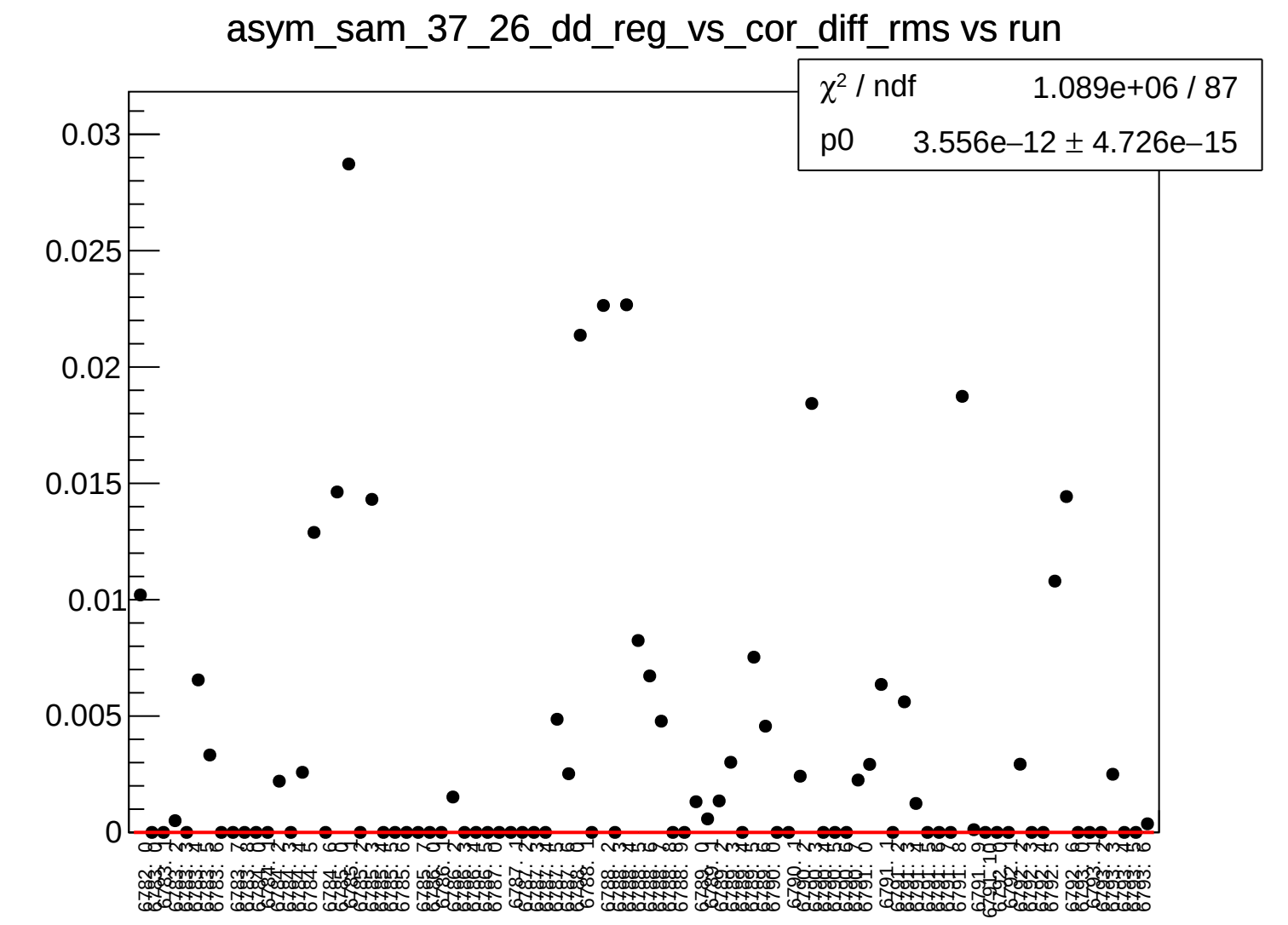

asym_sam_37_26_dd_mean vs run
χ² / ndf 100.3 / 87
p0 392 ± 192.7
pull
Entries 88
Mean −647.4
Std Dev 0

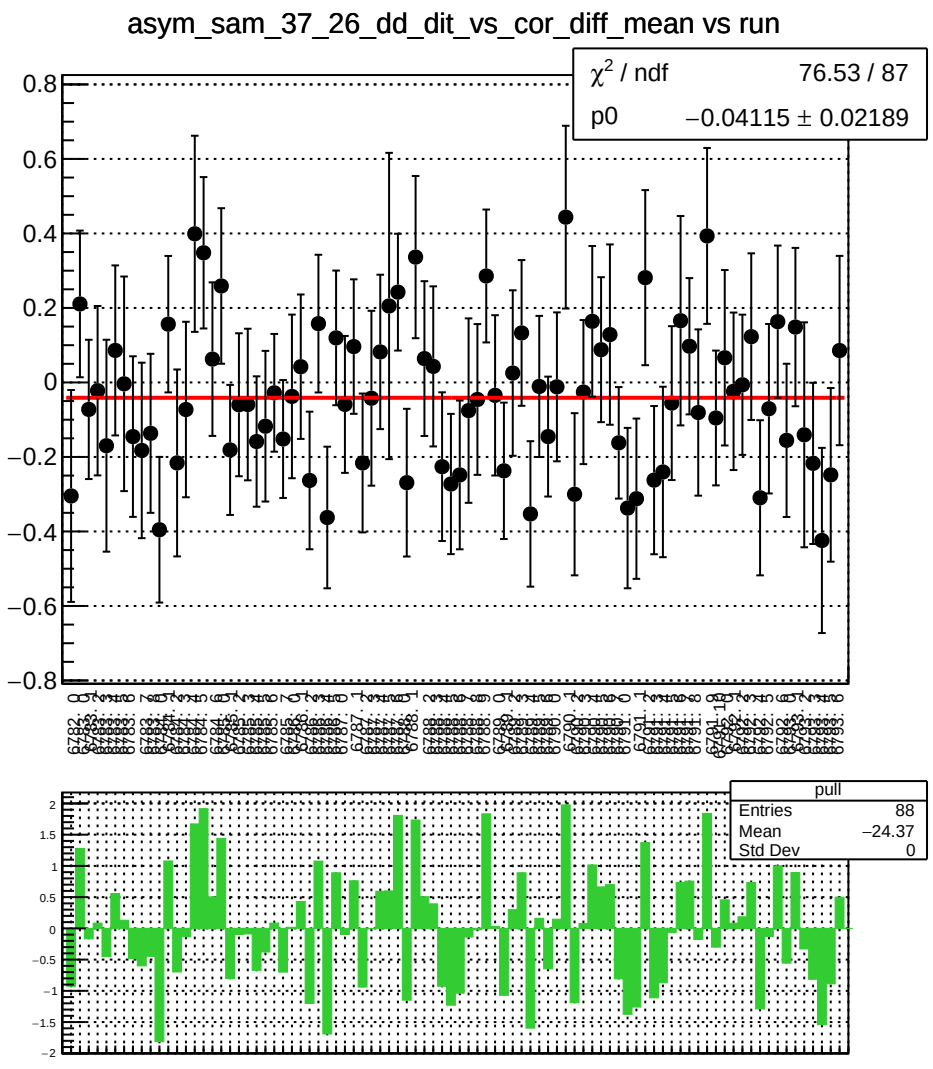

pull1D
Entries 88
Mean 0.005695
Std Dev 1.068

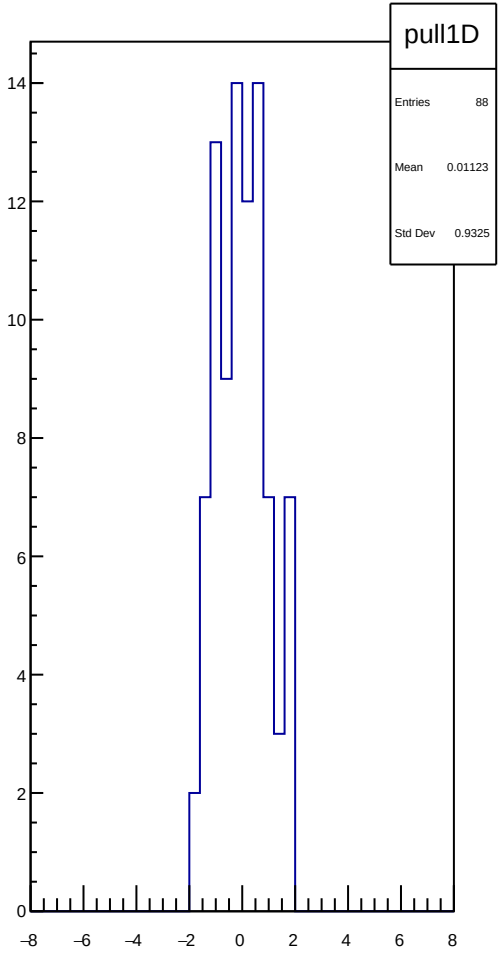

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.175e+04 / 87
p0 174.7 ± 0.1363
210
200
190
180
170
160
150
140

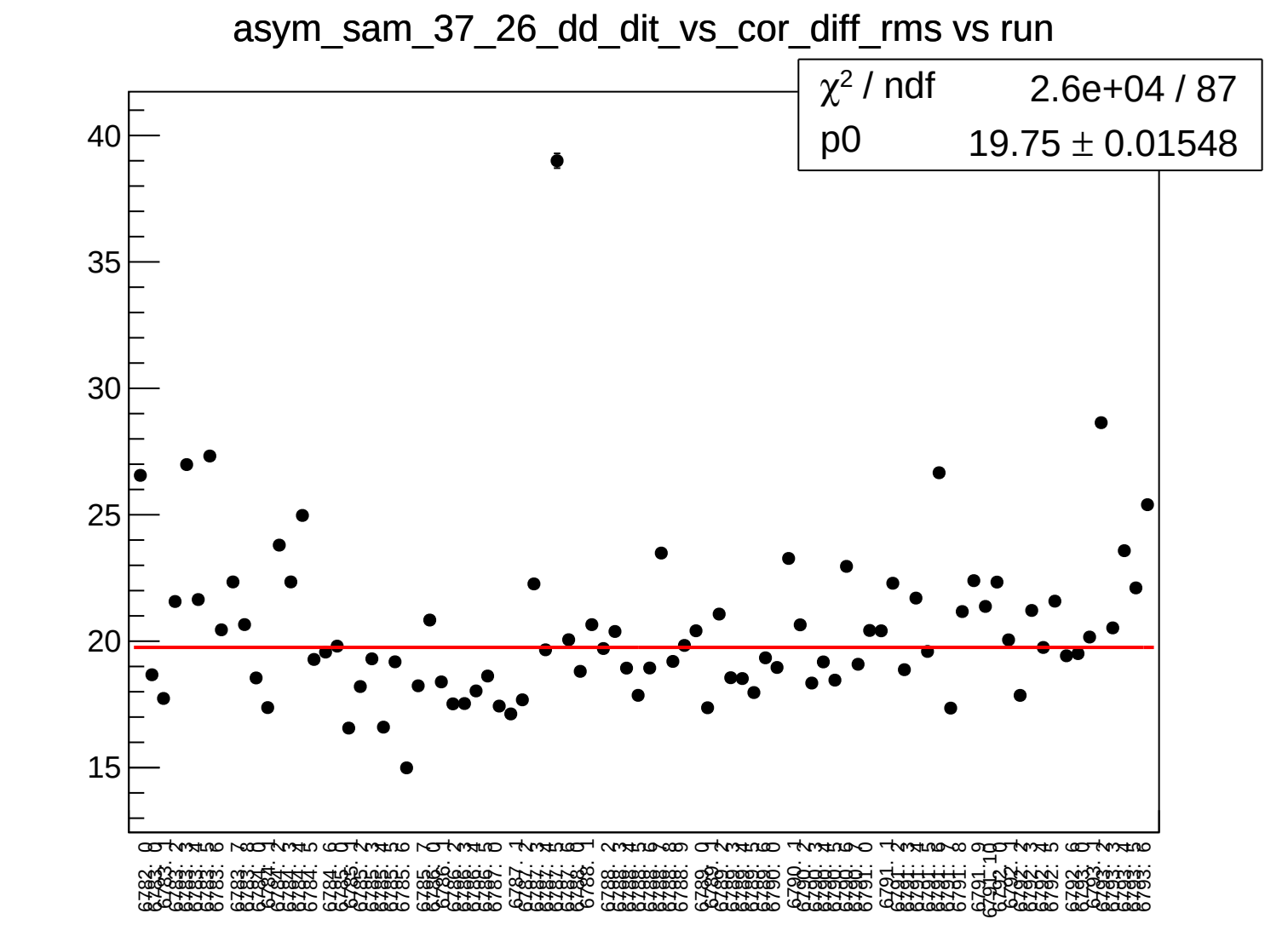

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.49 / 87
p0 1.066e−14 ± 6.683e−15
pull
Entries 88
Mean 55.22
Std Dev 0

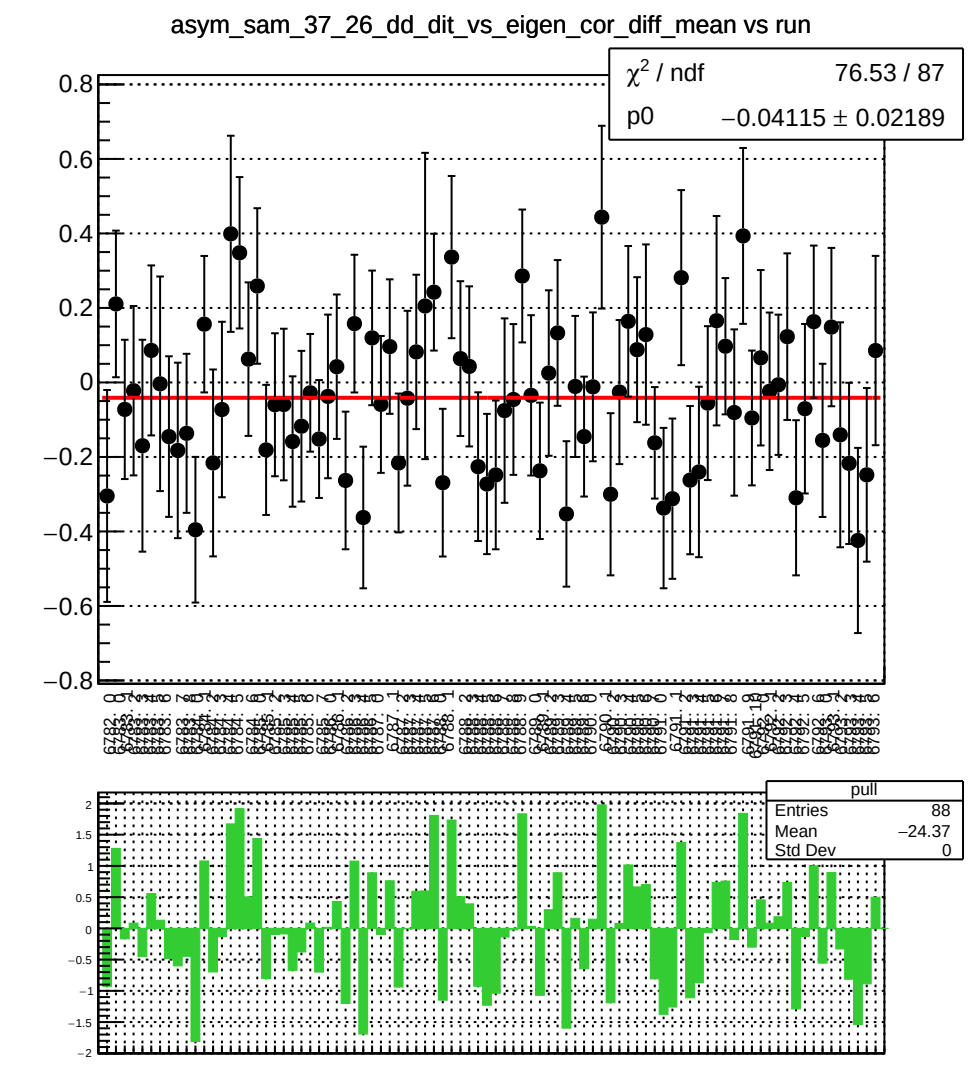

pull1D
Entries 88
Mean 0.05277
Std Dev 1.018

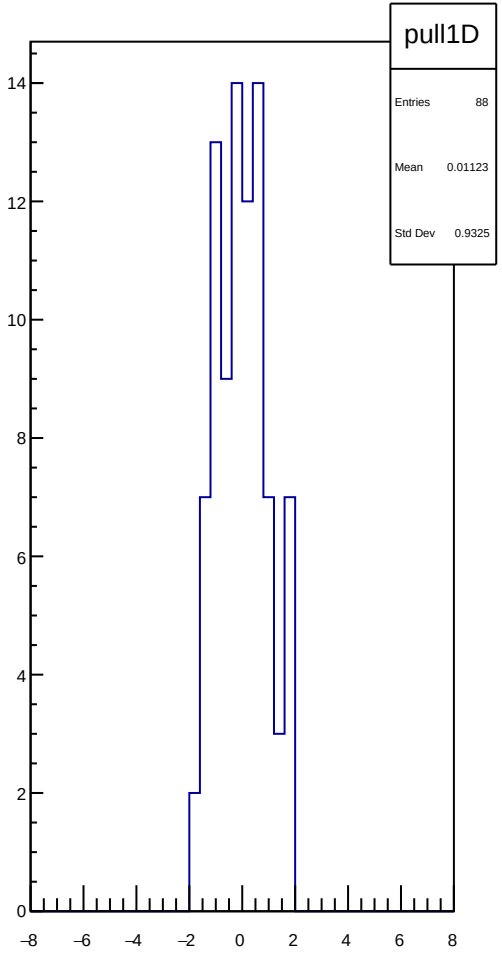

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 87
p0 3.556e−12 ± 4.726e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

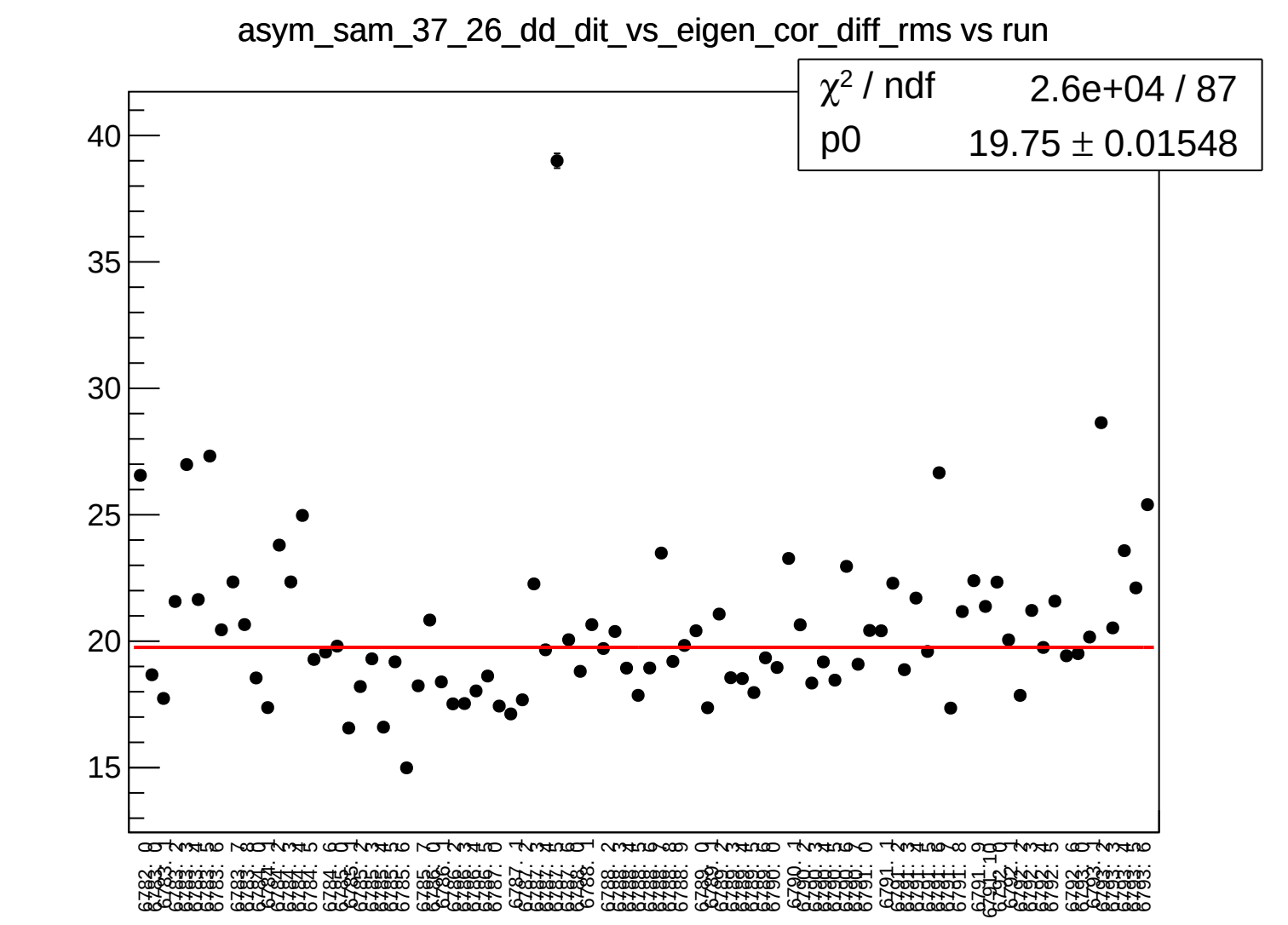

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 87
p0 −0.04115 ± 0.02189
pull
Entries 88
Mean −24.37
Std Dev 0

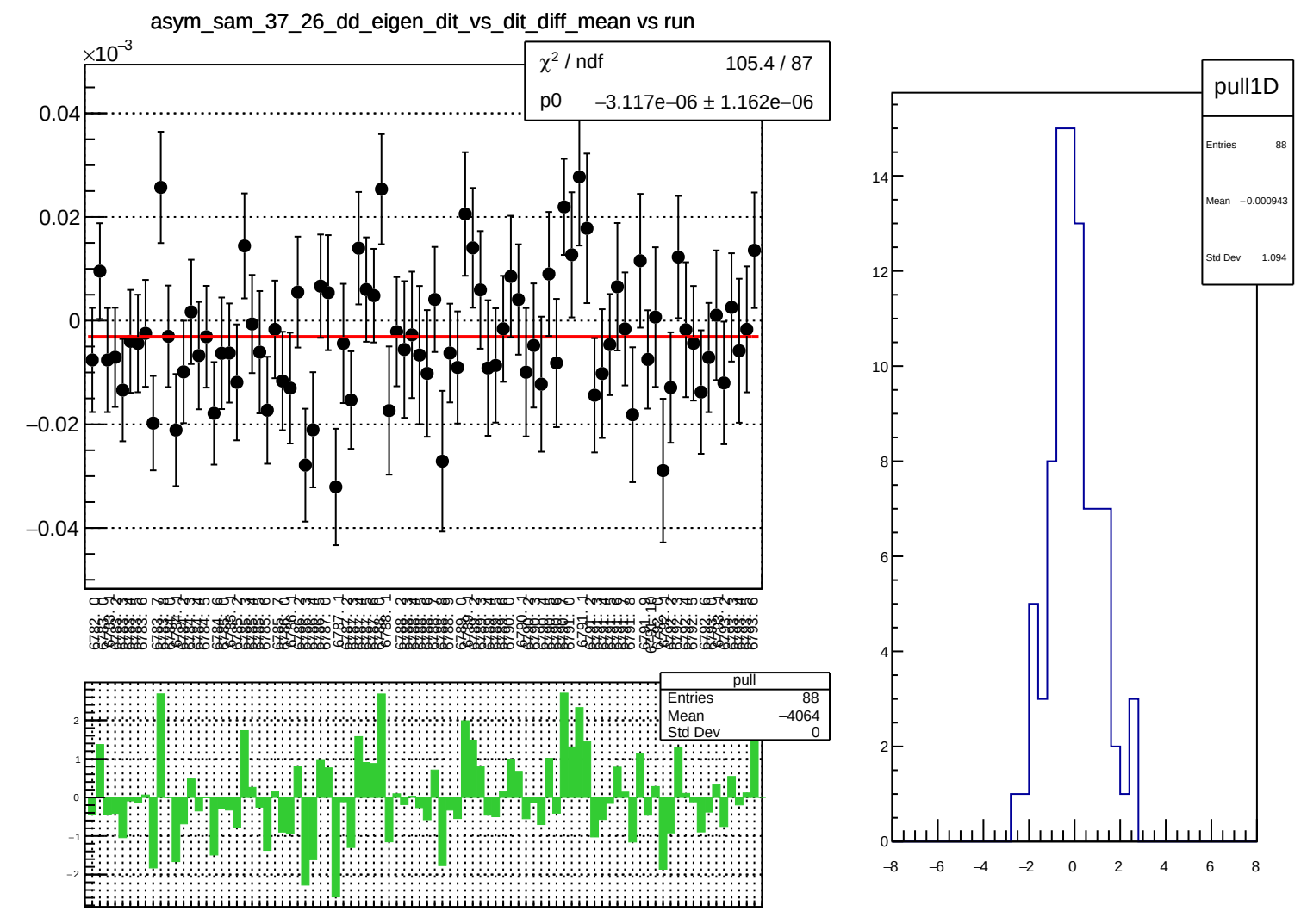

pull1D
Entries 88
Mean 0.01123
Std Dev 0.9325

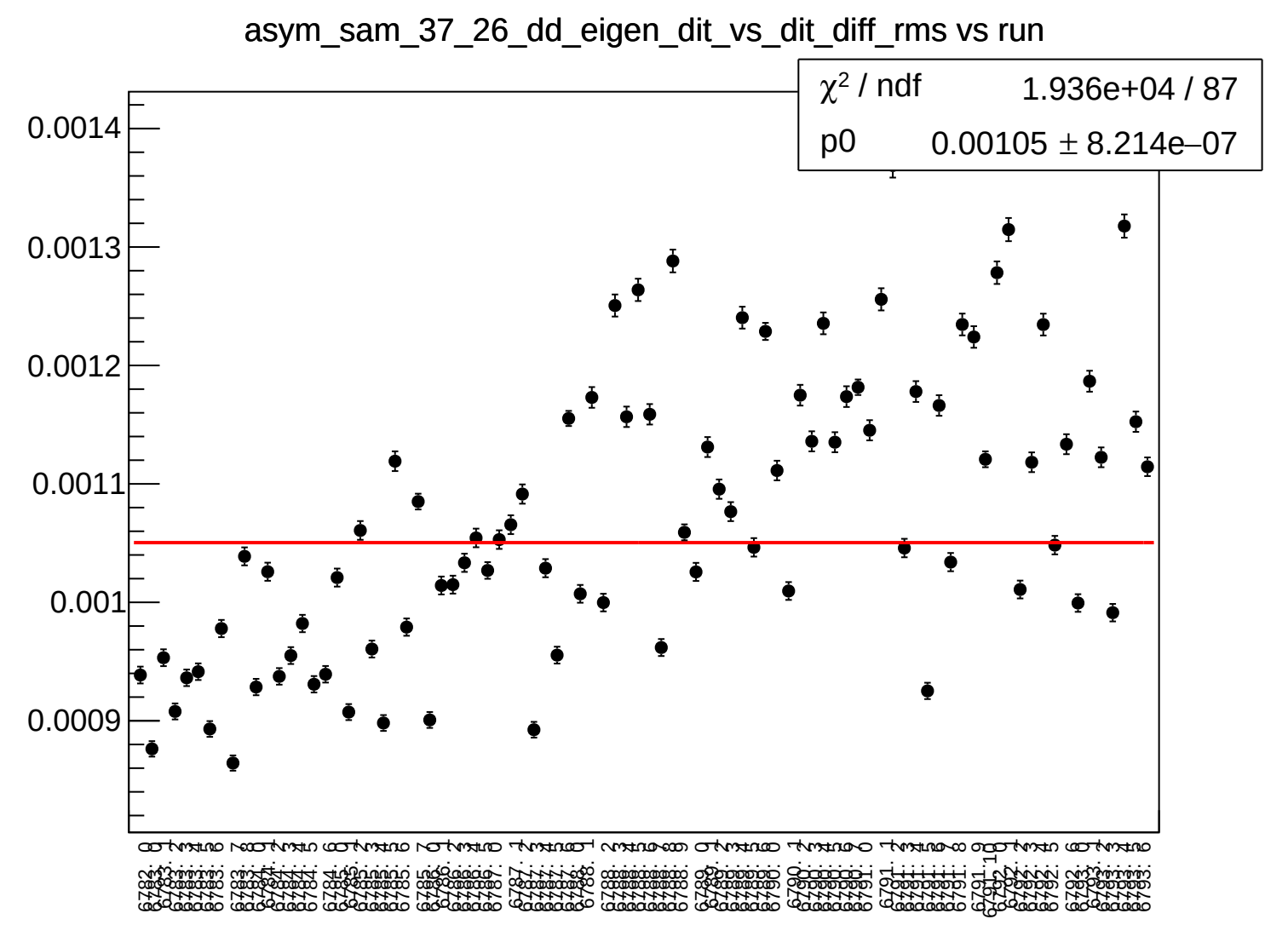

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 87
p0 19.75 ± 0.01548
40
35
30
25
20
15

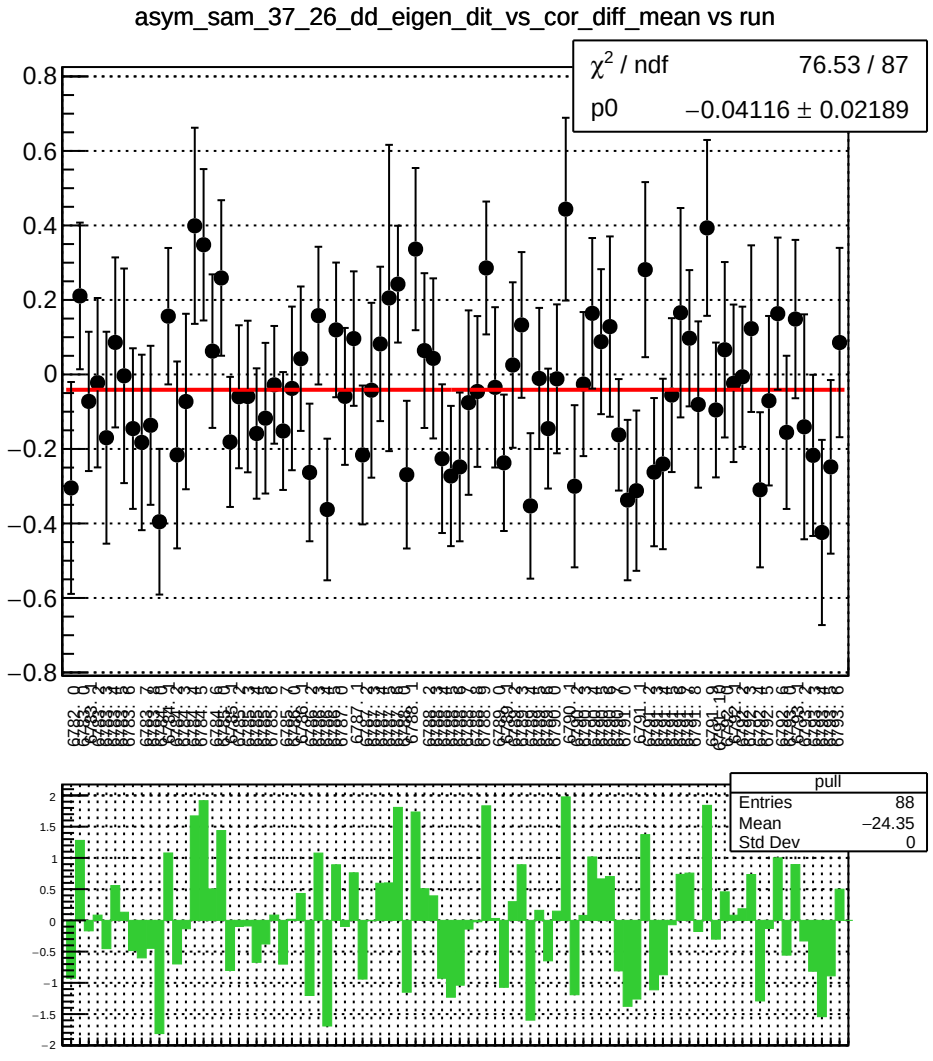

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.53 / 87
p0 −0.04115 ± 0.02189
pull
Entries 88
Mean −24.37
Std Dev 0

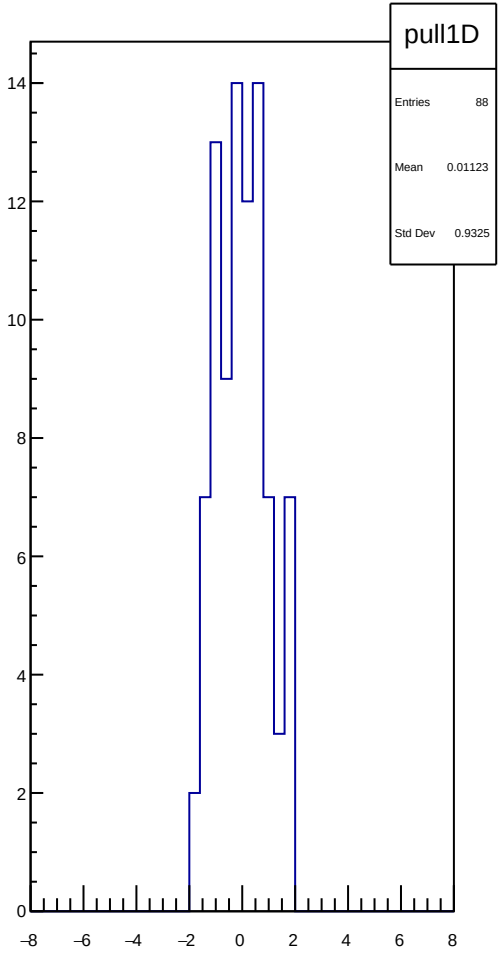

pull1D
Entries 88
Mean 0.01123
Std Dev 0.9325

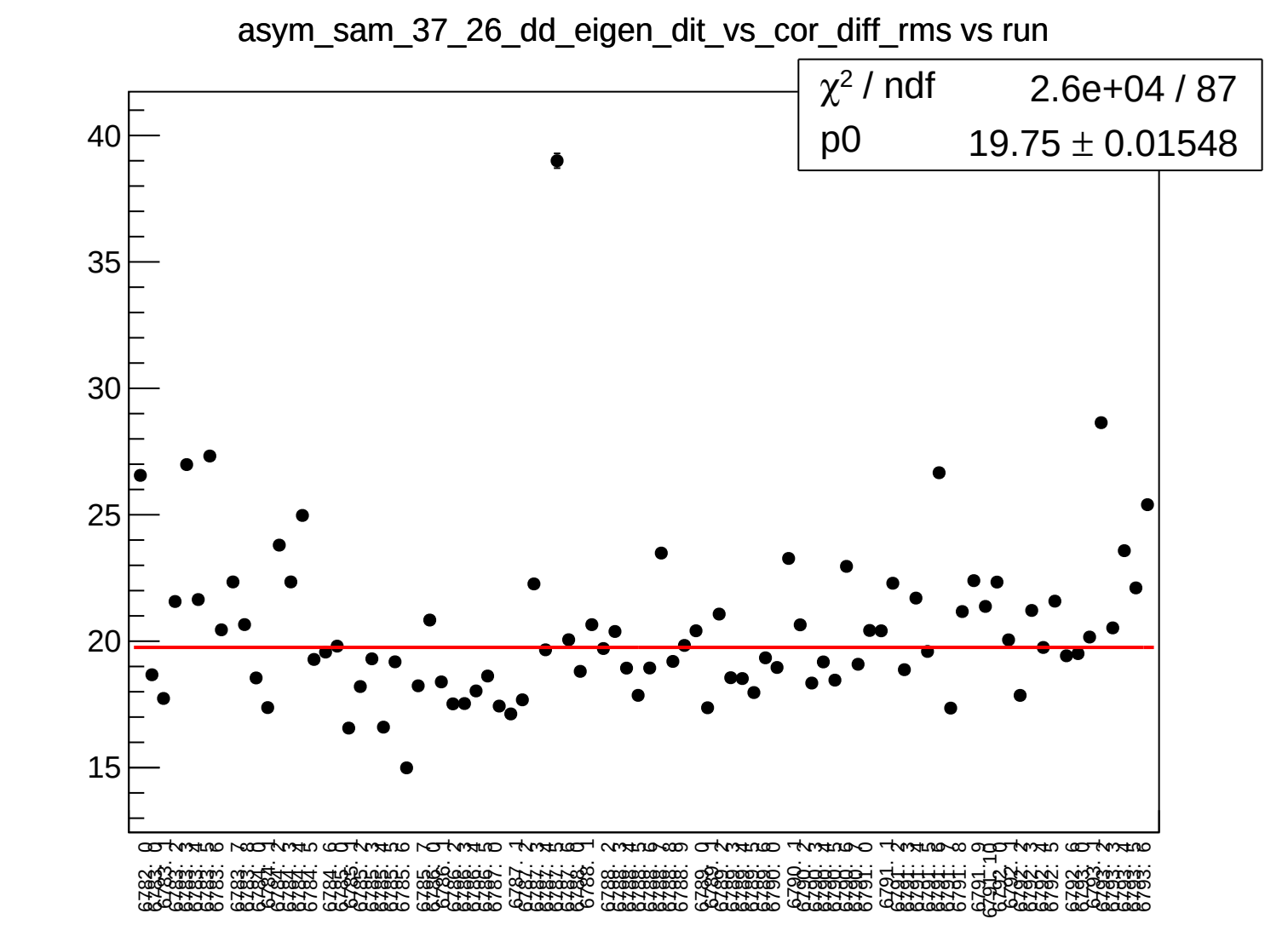

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 87
p0 19.75 ± 0.01548
40
35
30
25
20
15

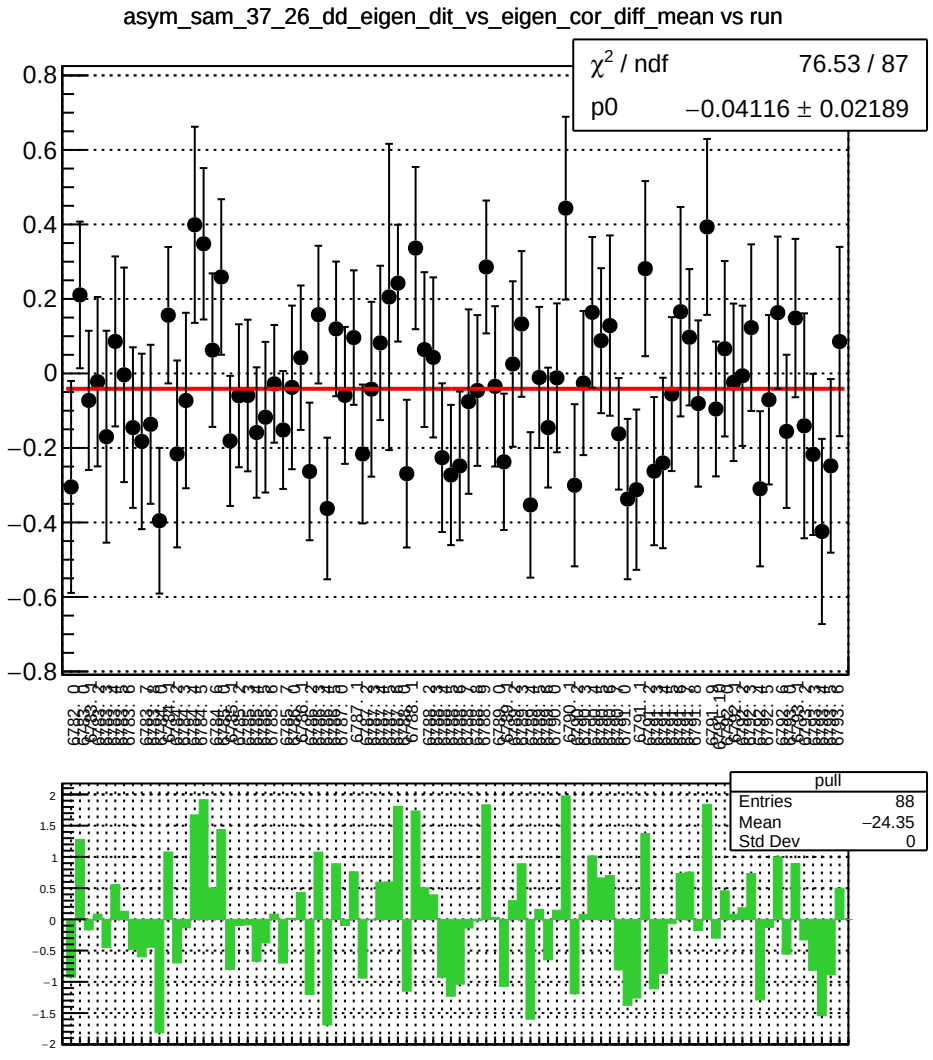

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 105.4 / 87
p0 −3.117e−06 ± 1.162e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean −4064
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.000943
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

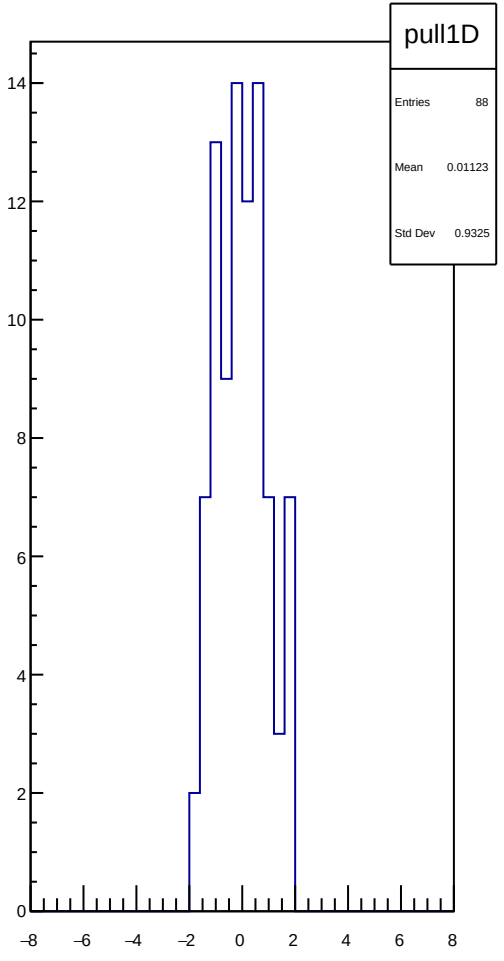

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.936e+04 / 87
p0 0.00105 ± 8.214e–07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

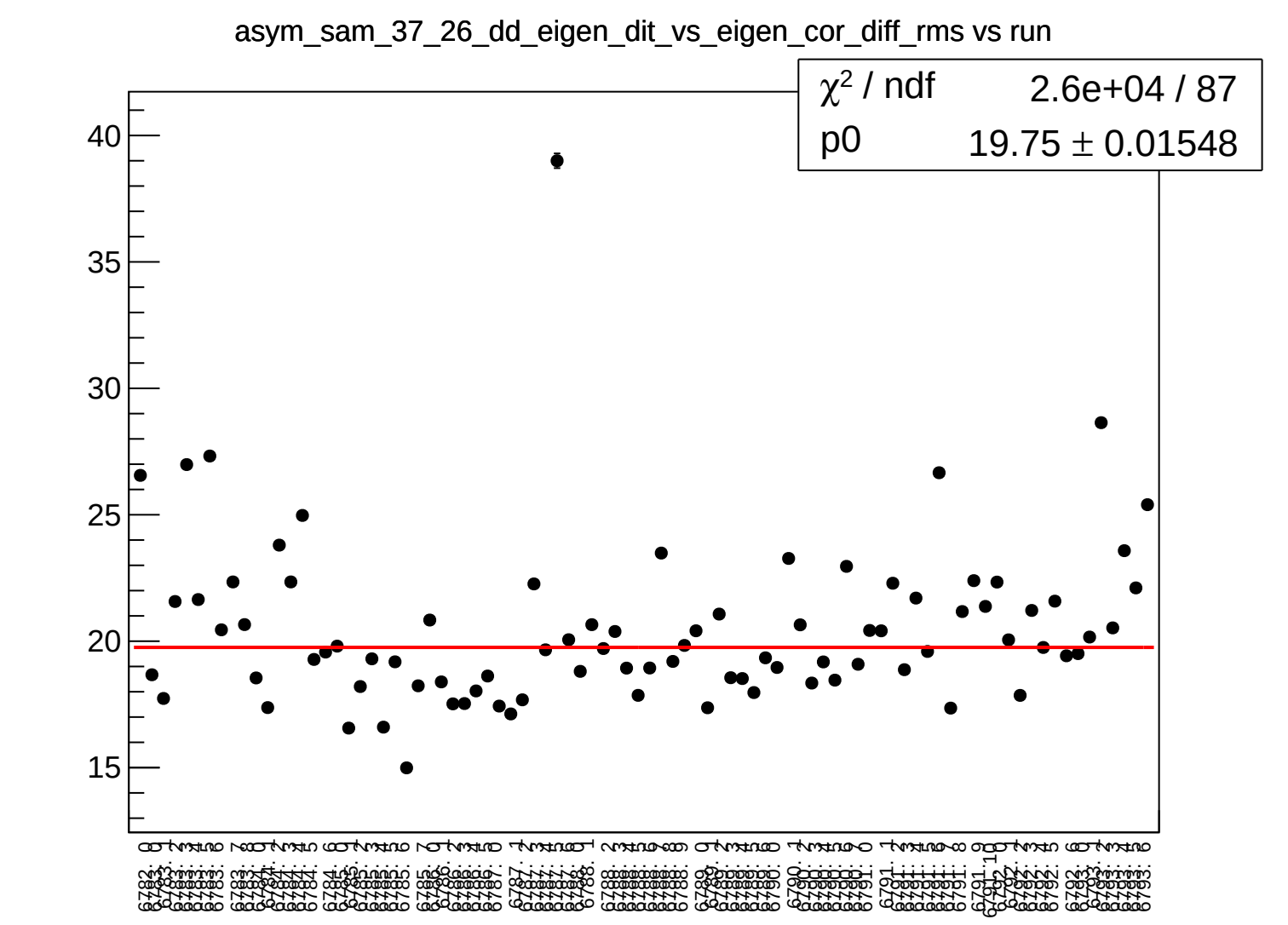

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 87
p0 −0.04116 ± 0.02189
pull
Entries 88
Mean −24.35
Std Dev 0

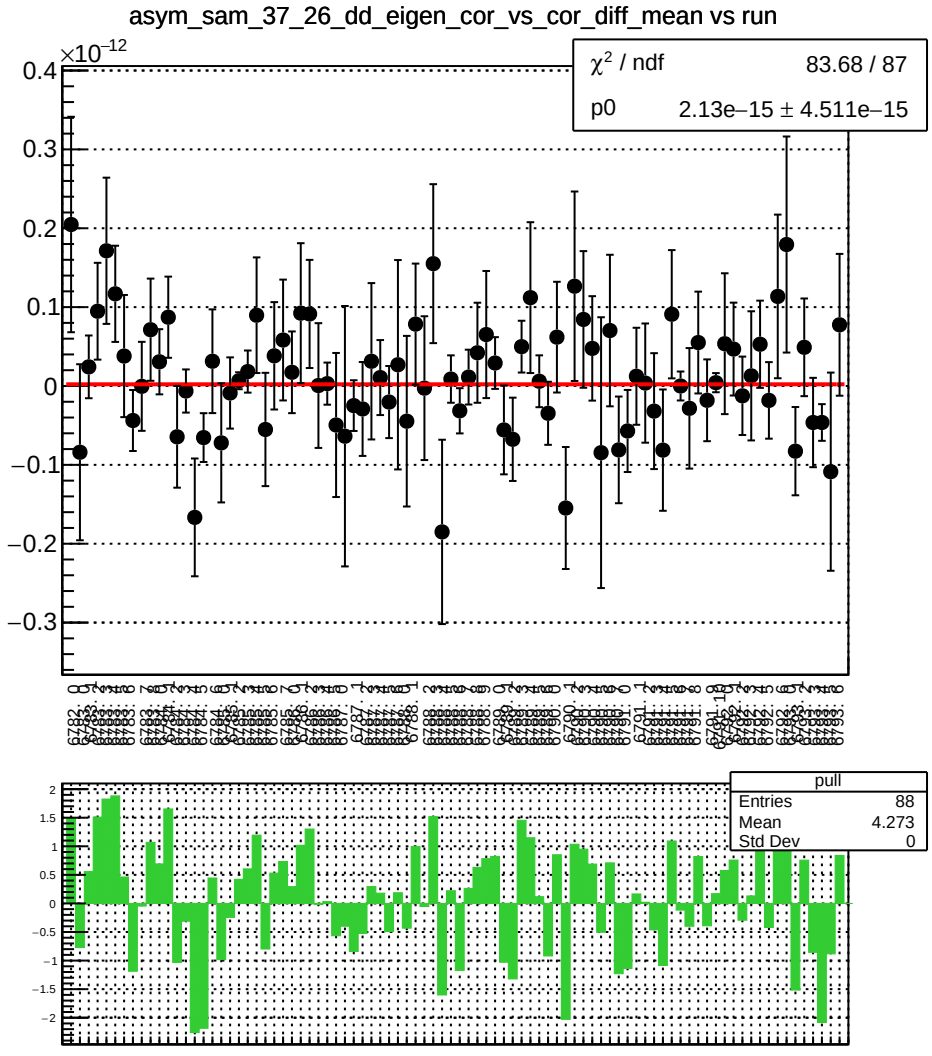

pull1D
Entries 88
Mean 0.01123
Std Dev 0.9325

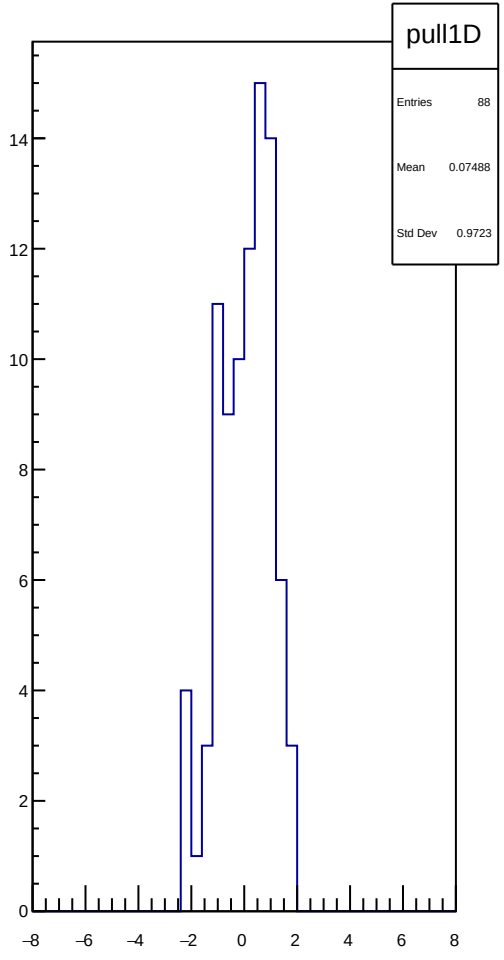

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 87
p0 19.75 ± 0.01548
40
35
30
25
20
15

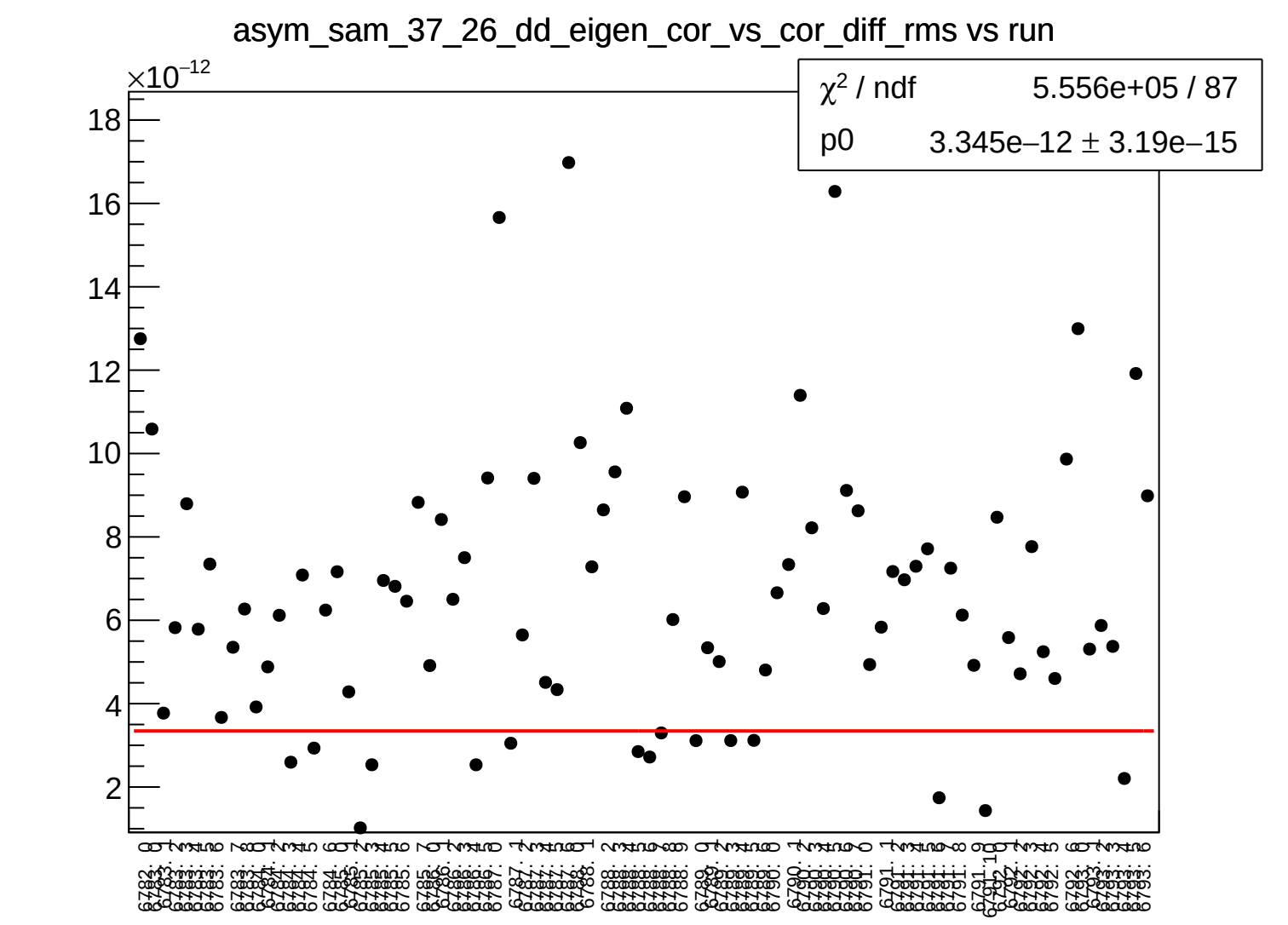

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.53 / 87
p0 −0.04116 ± 0.02189
pull
Entries 88
Mean −24.35
Std Dev 0

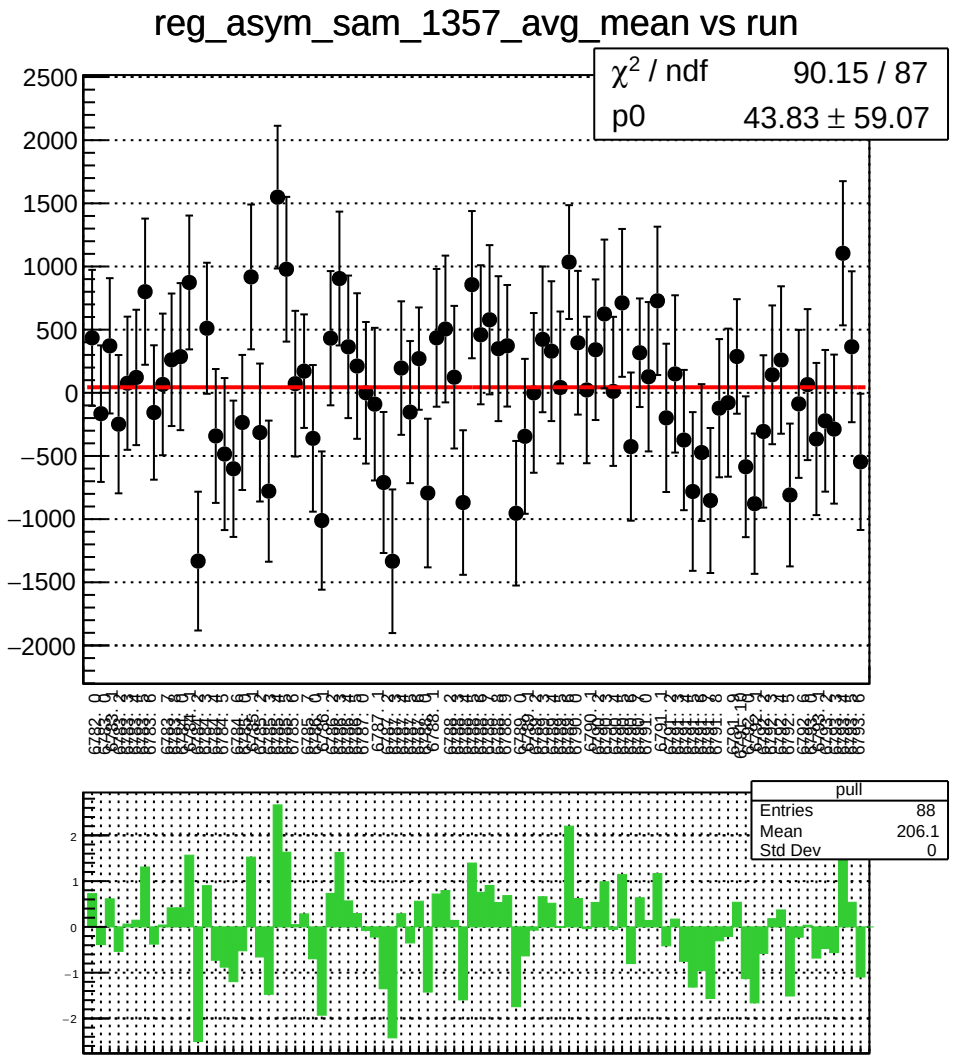

pull1D
Entries 88
Mean 0.01123
Std Dev 0.9325

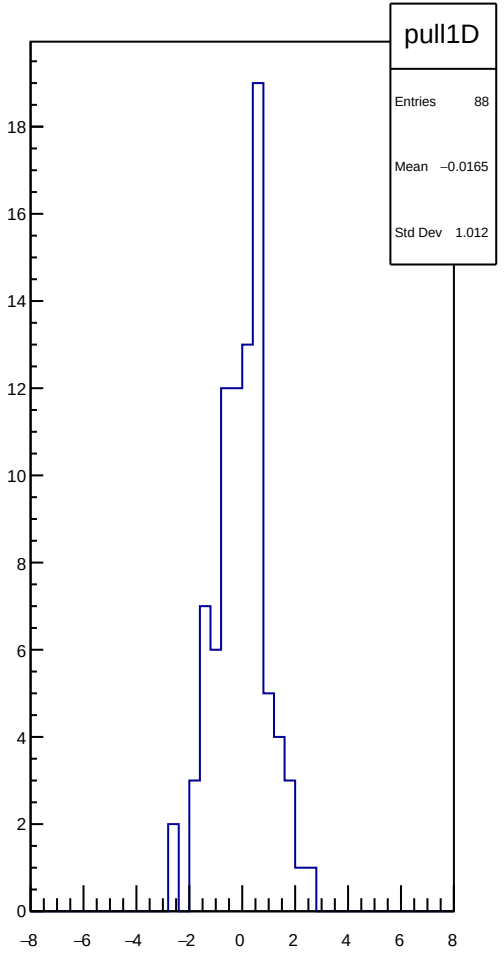

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 87
p0 19.75 ± 0.01548
40
35
30
25
20
15

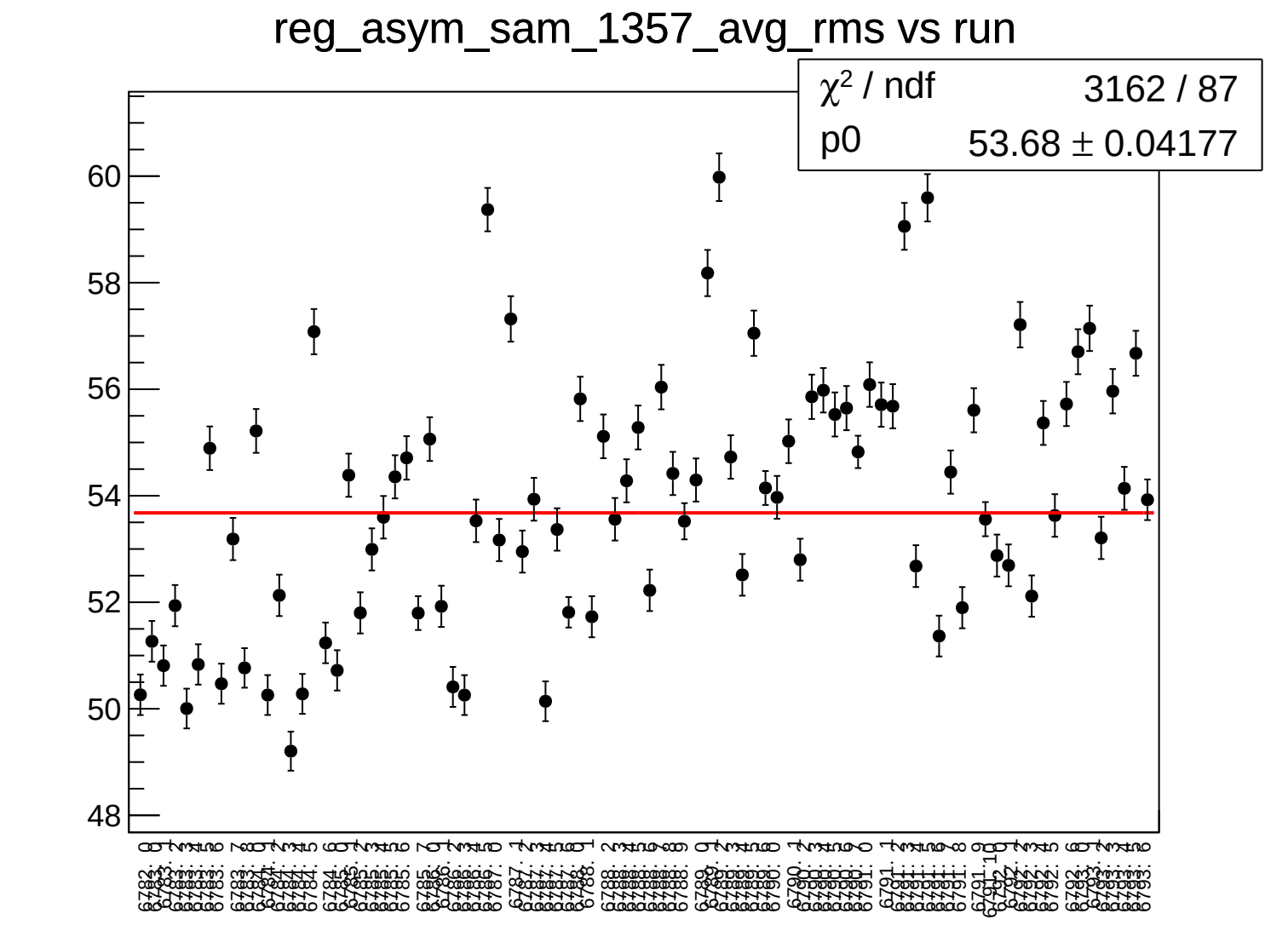

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.68 / 87
p0 2.13e−15 ± 4.511e−15
pull
Entries 88
Mean 4.273
Std Dev 0

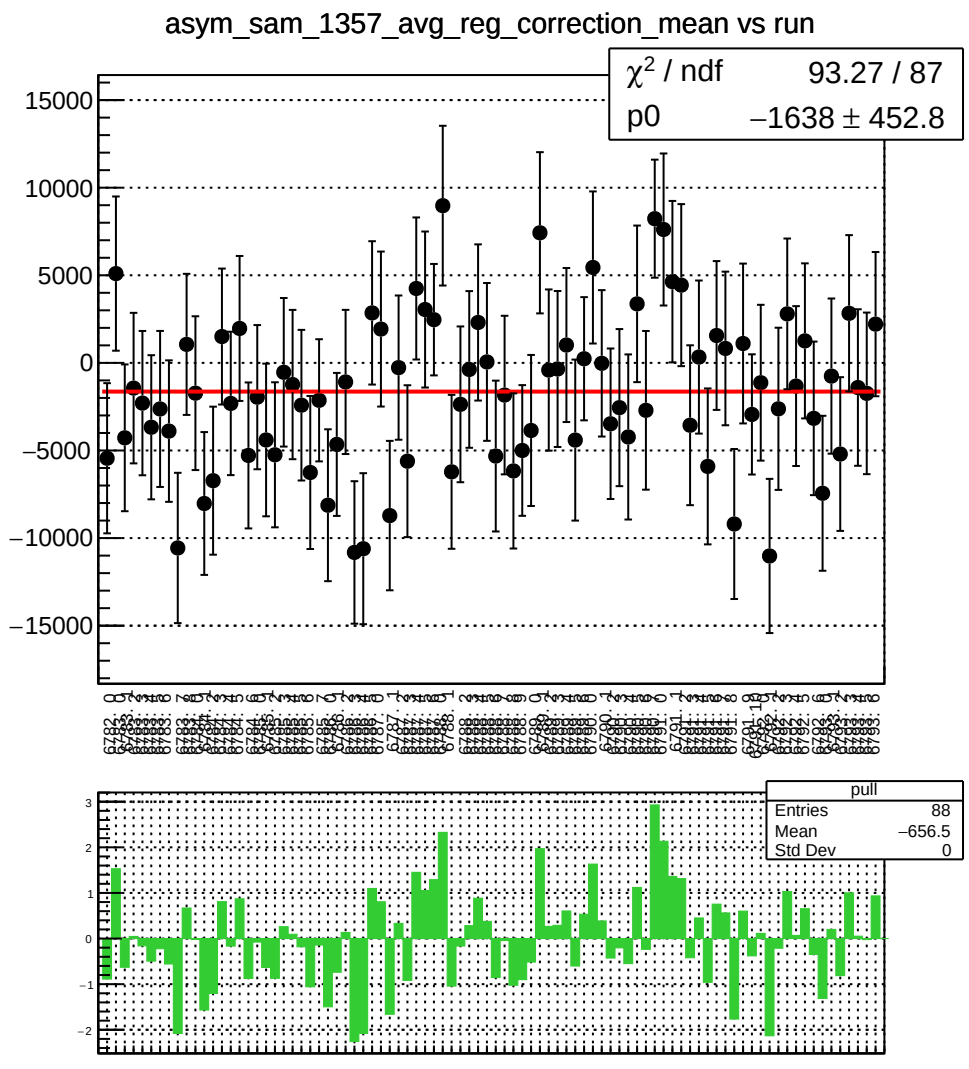

pull1D
Entries 88
Mean 0.07488
Std Dev 0.9723

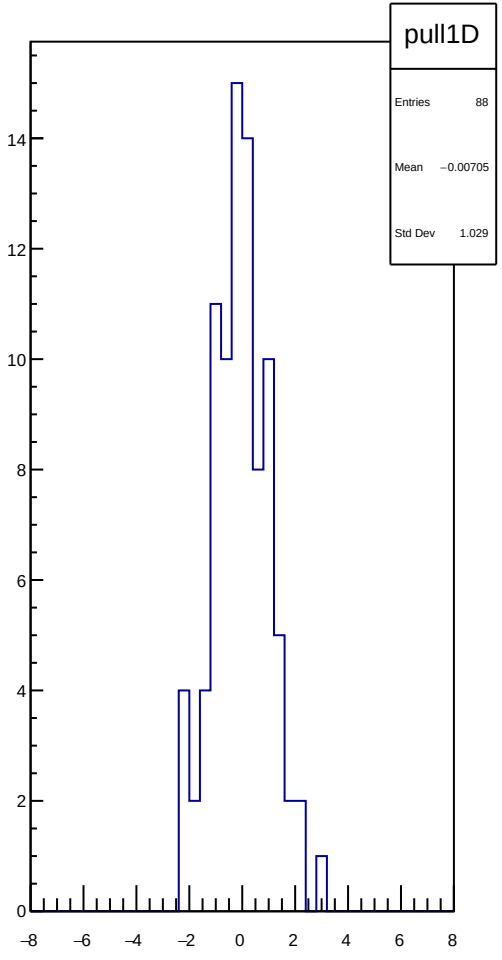

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.556e+05 / 87
p0 3.345e−12 ± 3.19e−15
18
16
14
12
10
8
6
4
2

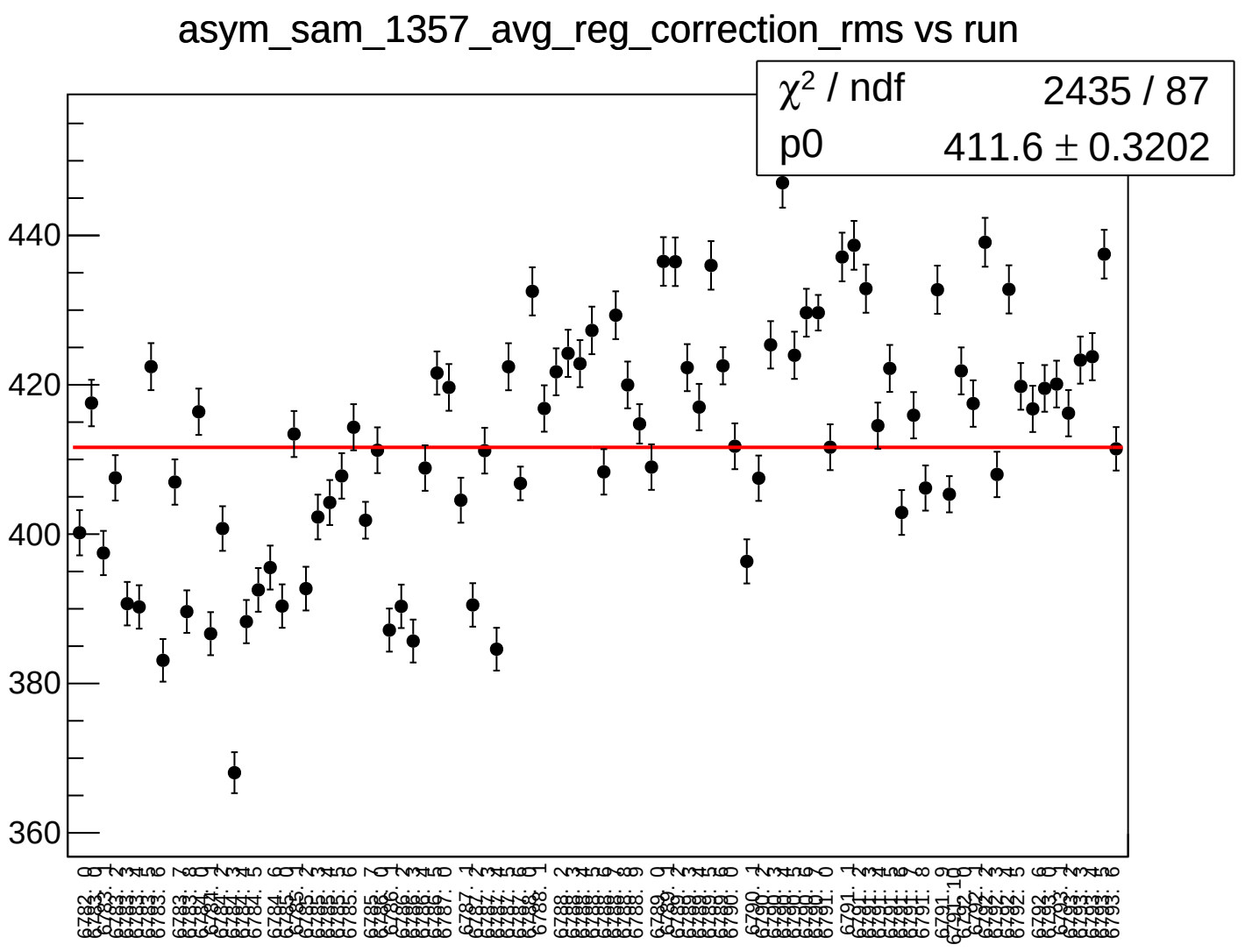

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 90.15 / 87
p0 43.83 ± 59.07
pull
Entries 88
Mean 206.1
Std Dev 0

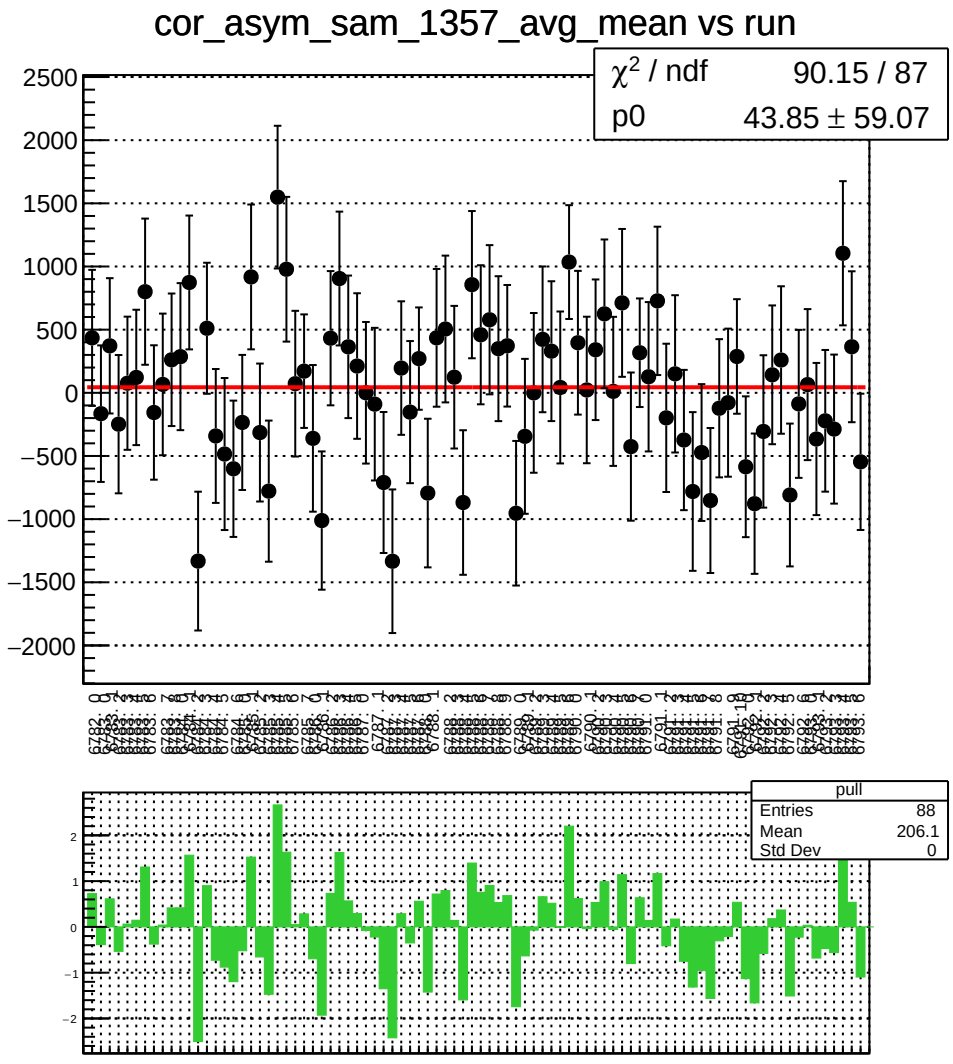

pull1D
Entries 88
Mean −0.0165
Std Dev 1.012

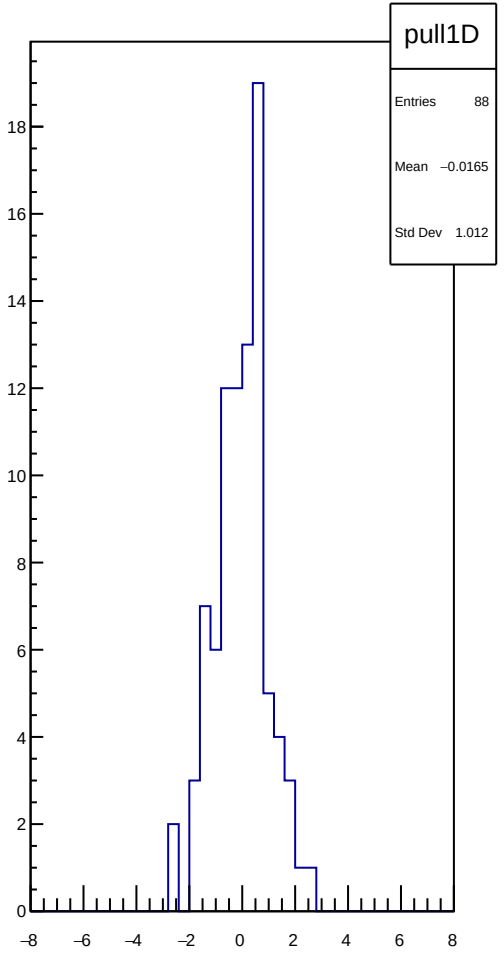

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 3162 / 87
p0 53.68 ± 0.04177
60
58
56
54
52
50
48

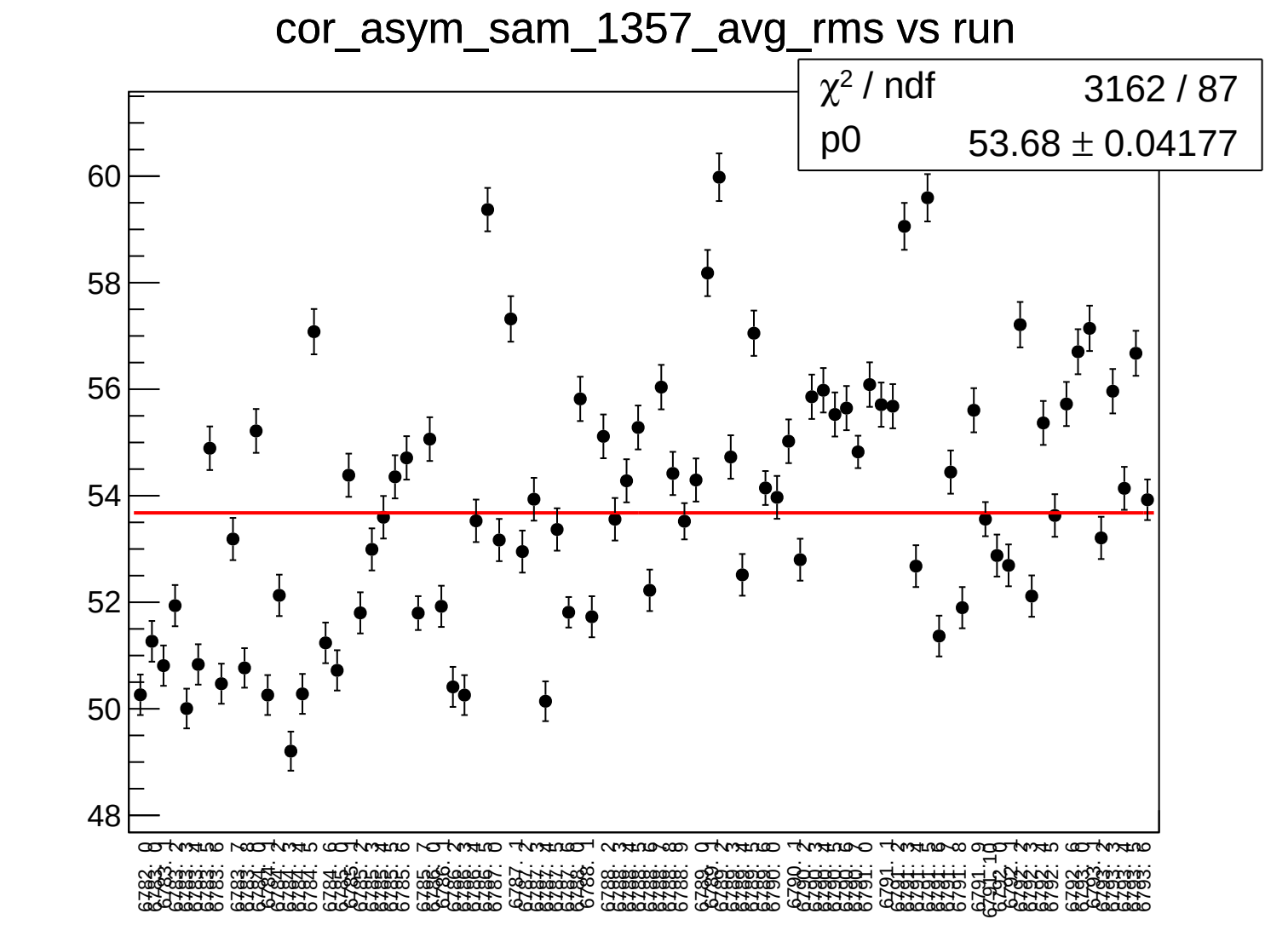

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 93.27 / 87
p0 −1638 ± 452.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −656.5
Std Dev 0
3
2
1
0
−1
−2

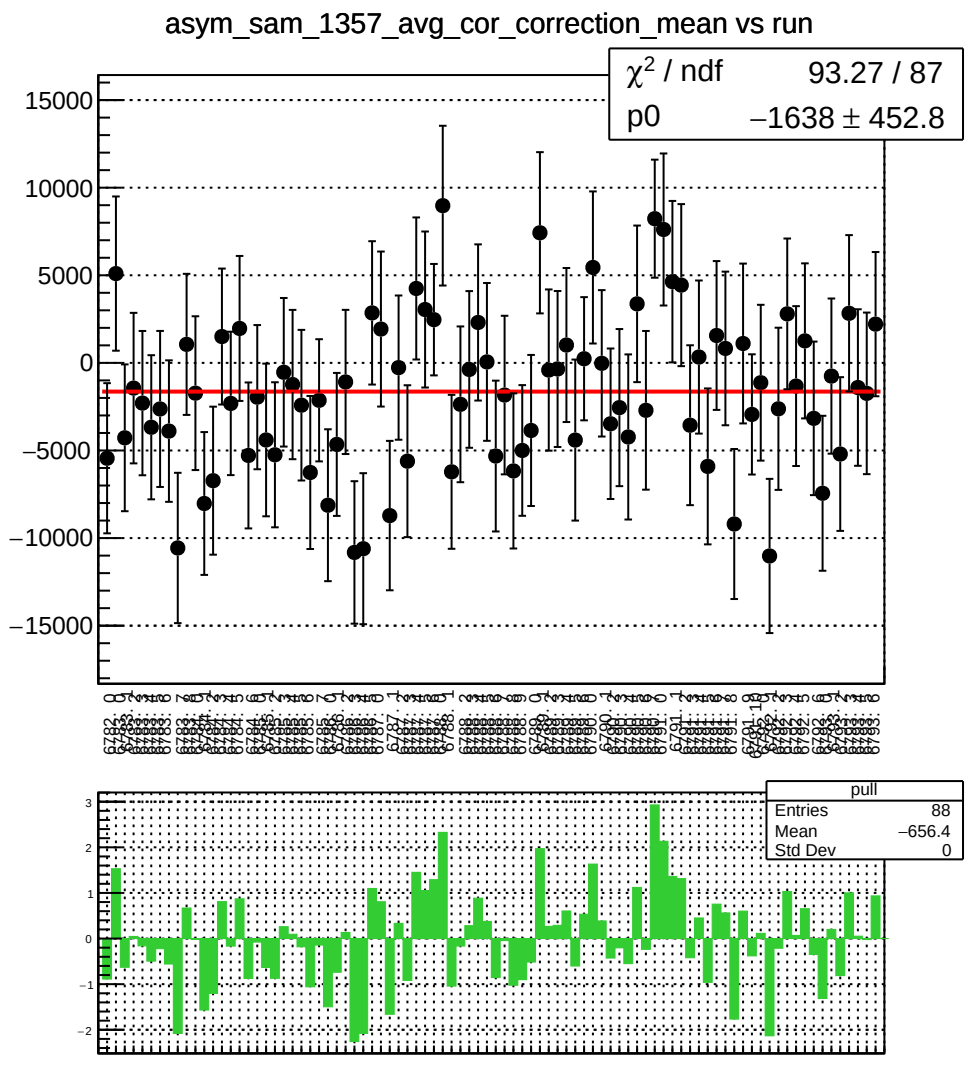

pull1D
Entries 88
Mean −0.00705
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

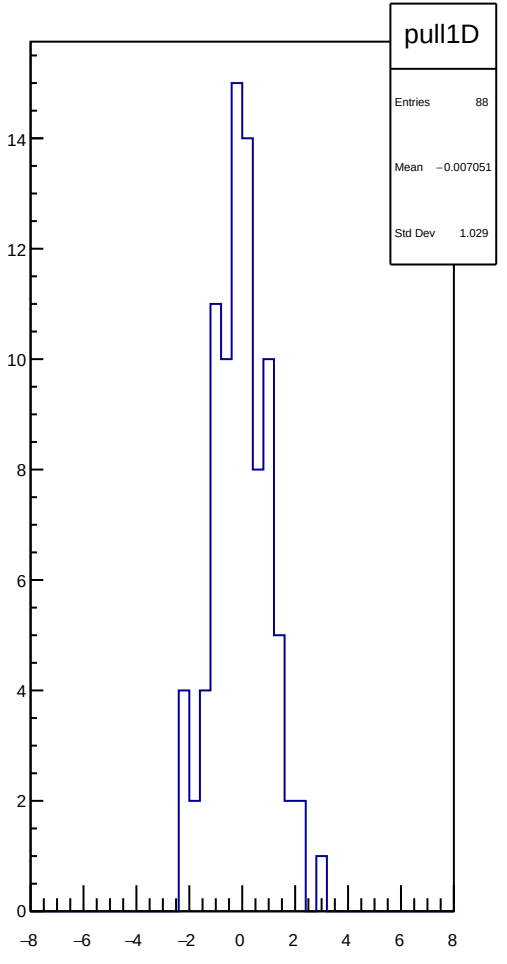

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2435 / 87
p0 411.6 ± 0.3202
440
420
400
380
360

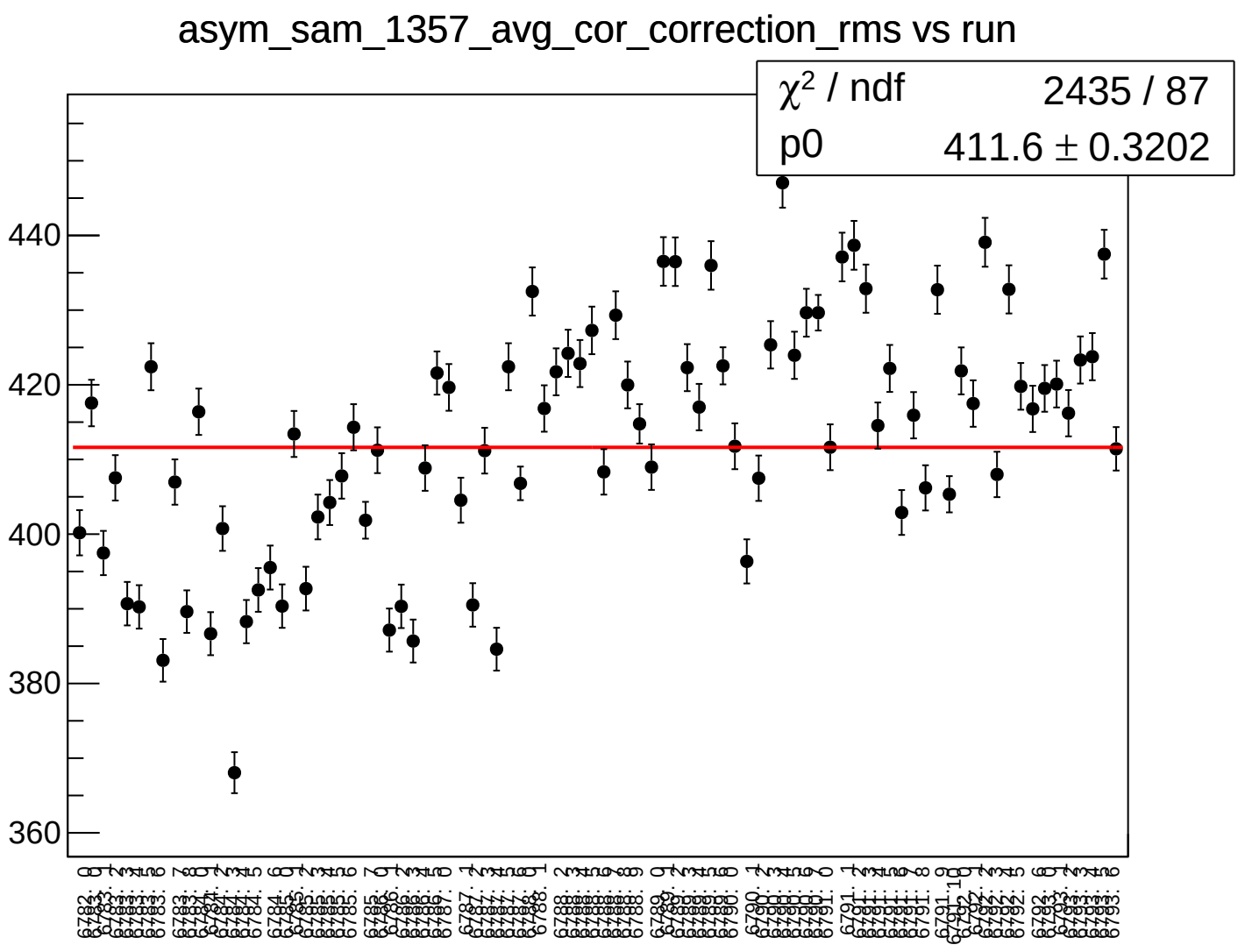

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 90.15 / 87
p0 43.85 ± 59.07
pull
Entries 88
Mean 206.1
Std Dev 0

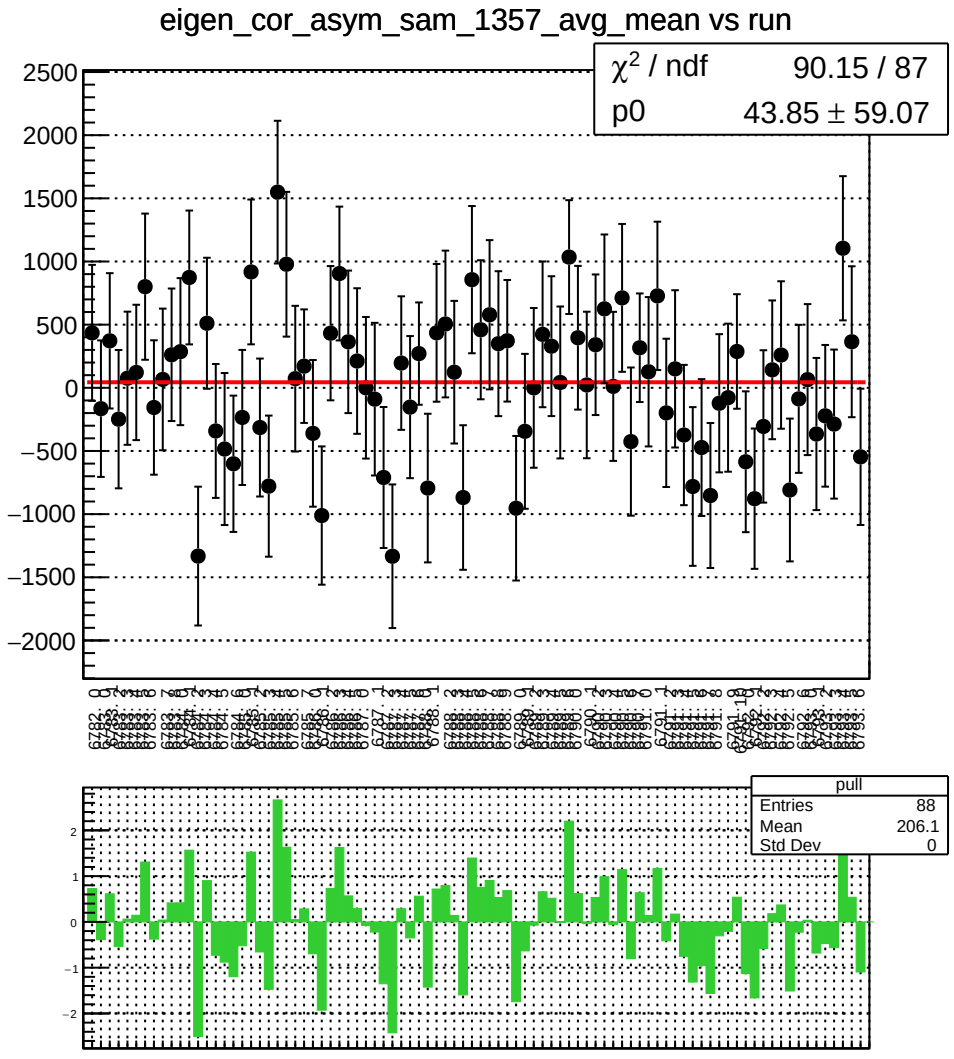

pull1D
Entries 88
Mean −0.0165
Std Dev 1.012

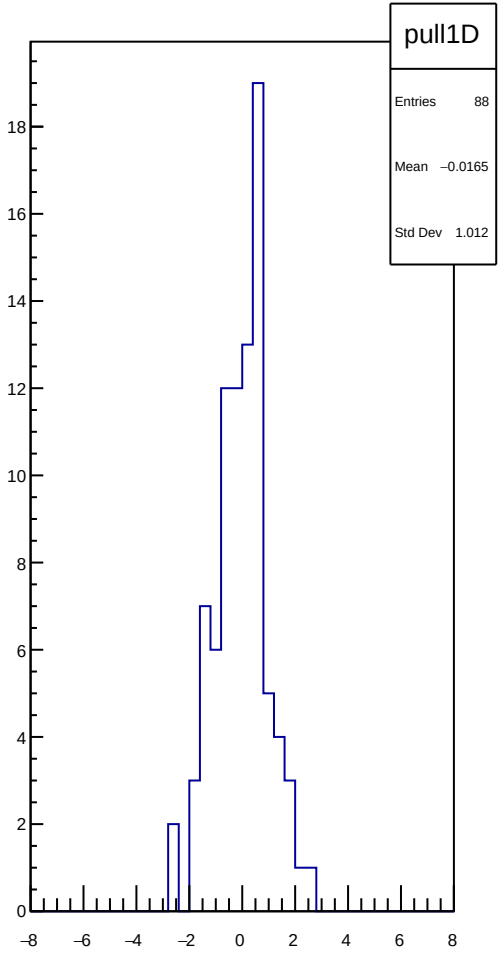

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3162 / 87
p0 53.68 ± 0.04177
60
58
56
54
52
50
48

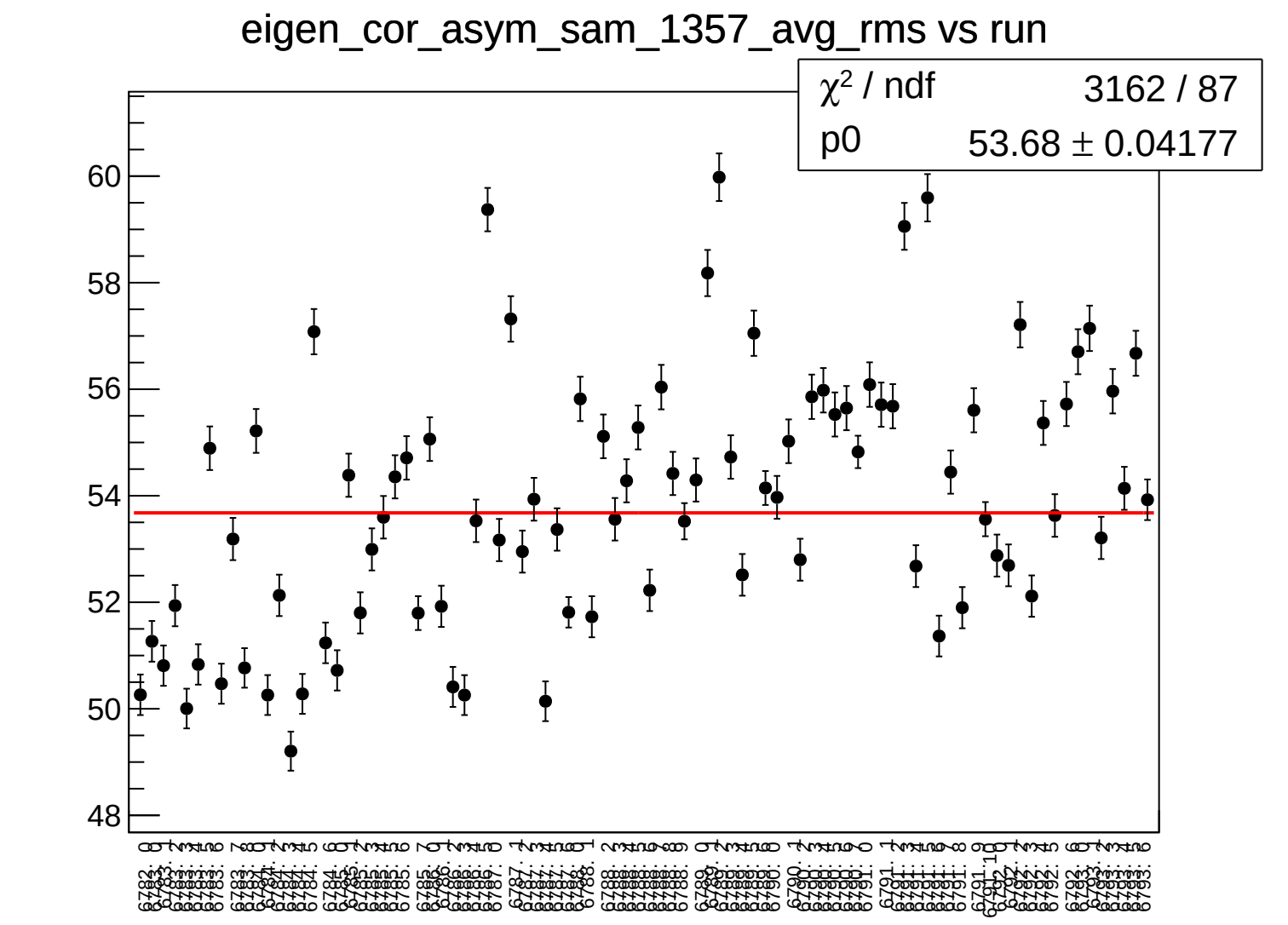

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 93.27 / 87
p0 −1638 ± 452.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −656.4
Std Dev 0
3
2
1
0
−1
−2

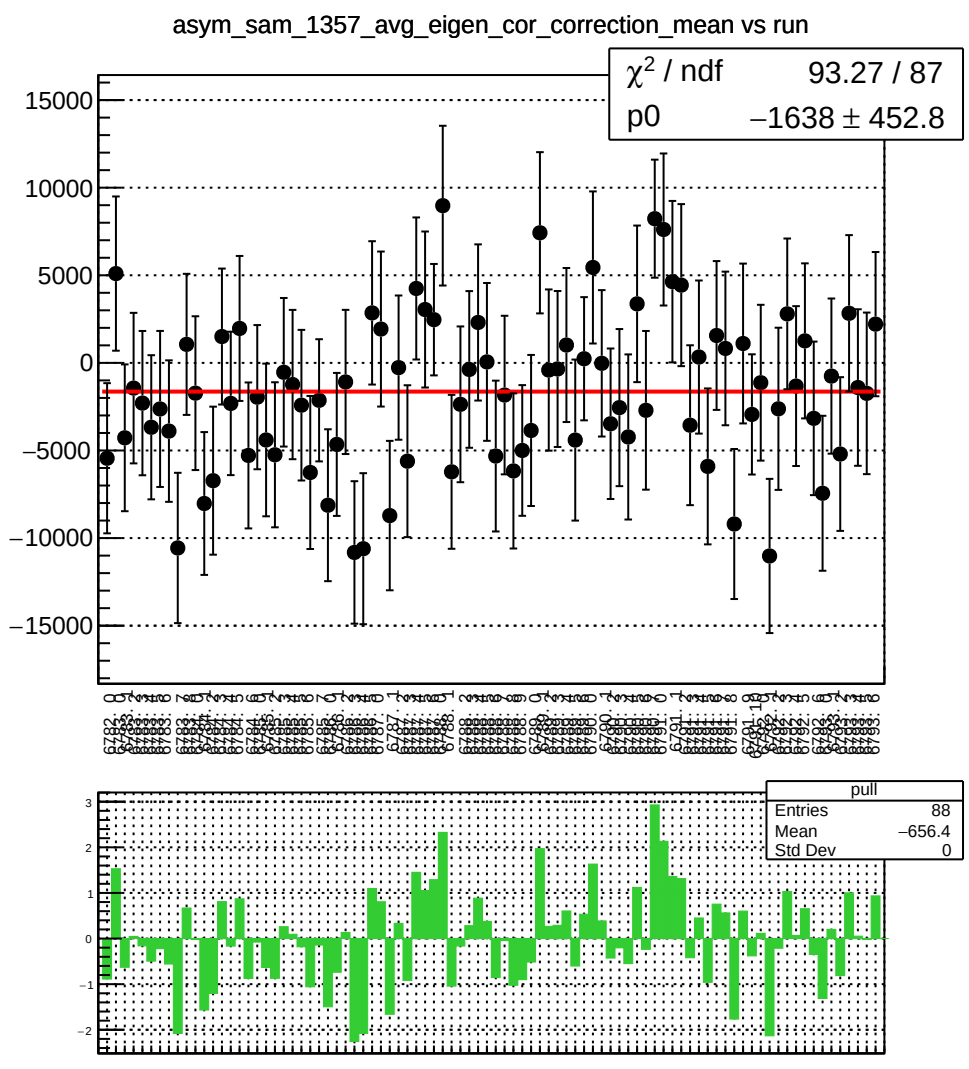

pull1D
Entries 88
Mean −0.007051
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

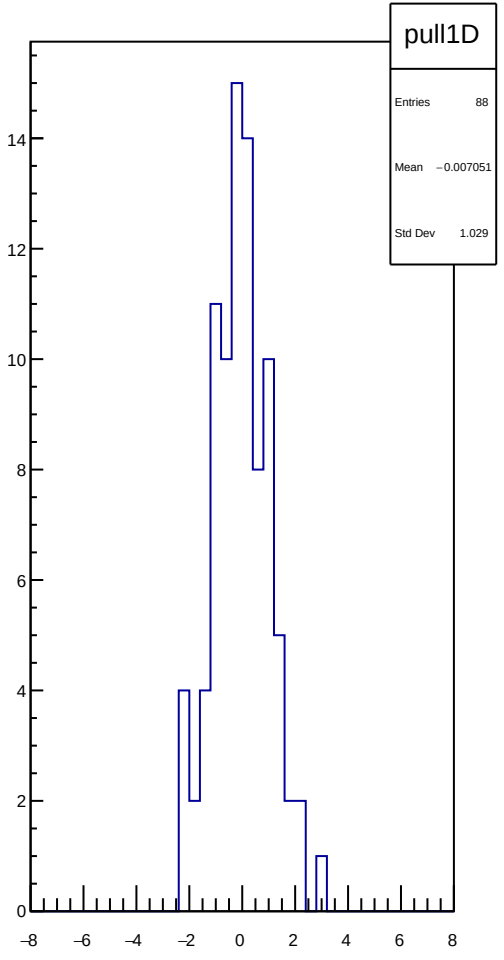

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2435 / 87
p0 411.6 ± 0.3202
440
420
400
380
360

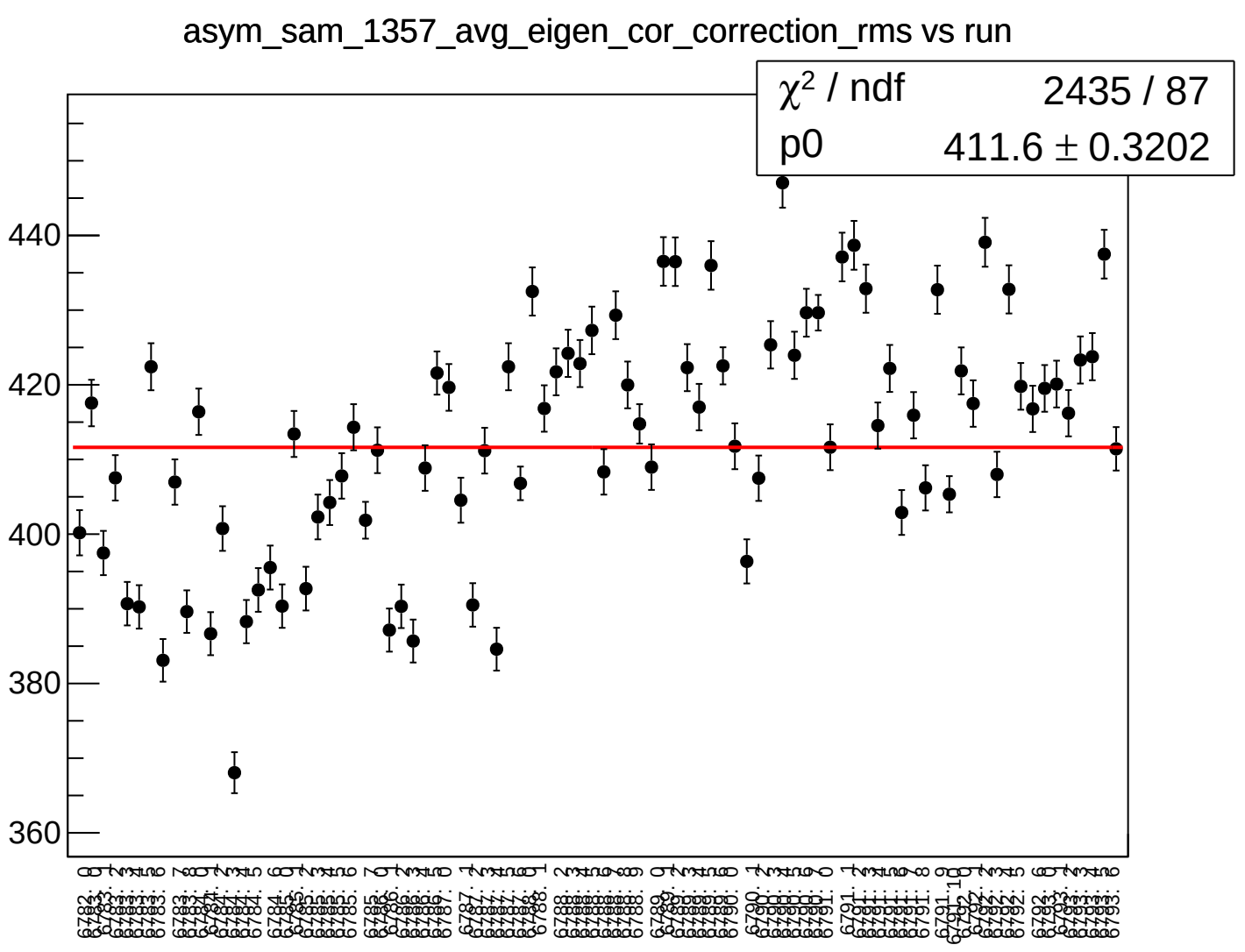

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 90.15 / 87
p0 43.85 ± 59.07
pull
Entries 88
Mean 206.1
Std Dev 0

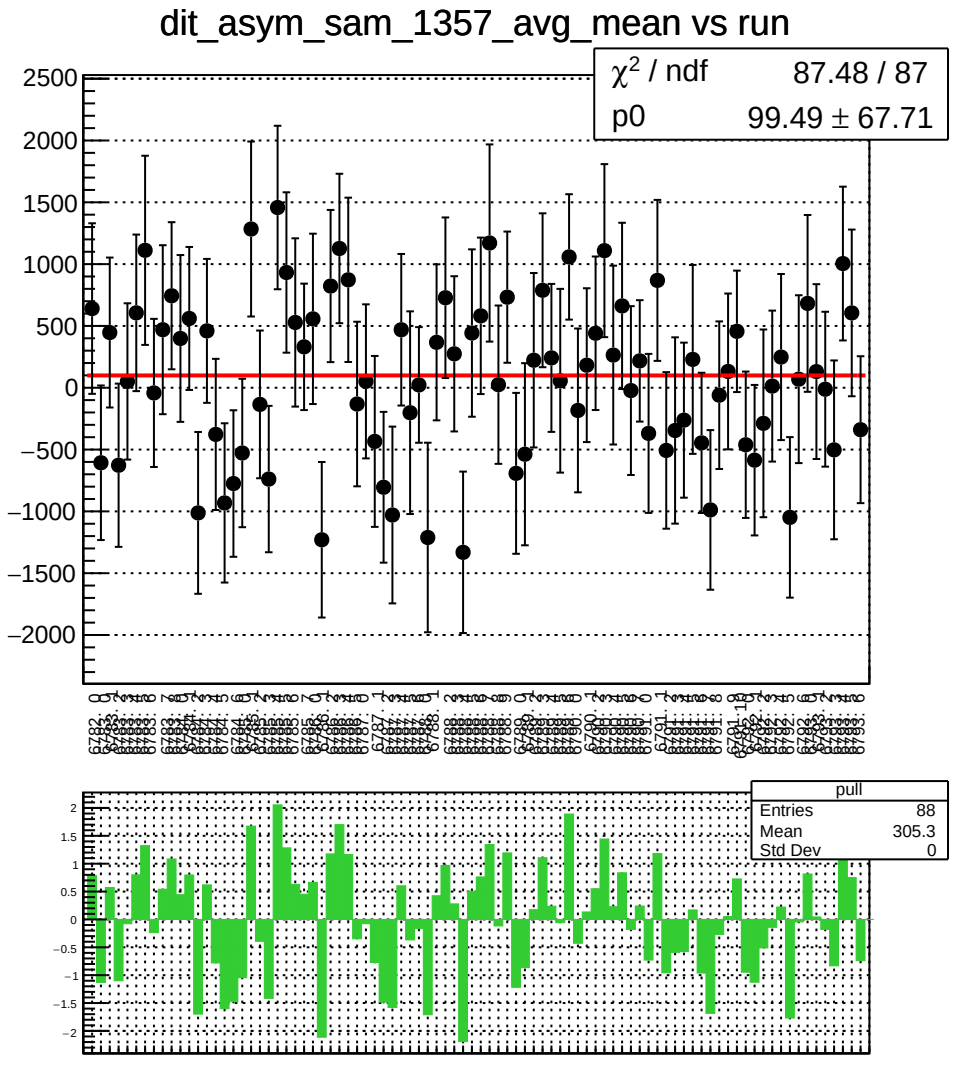

pull1D
Entries 88
Mean −0.0165
Std Dev 1.012

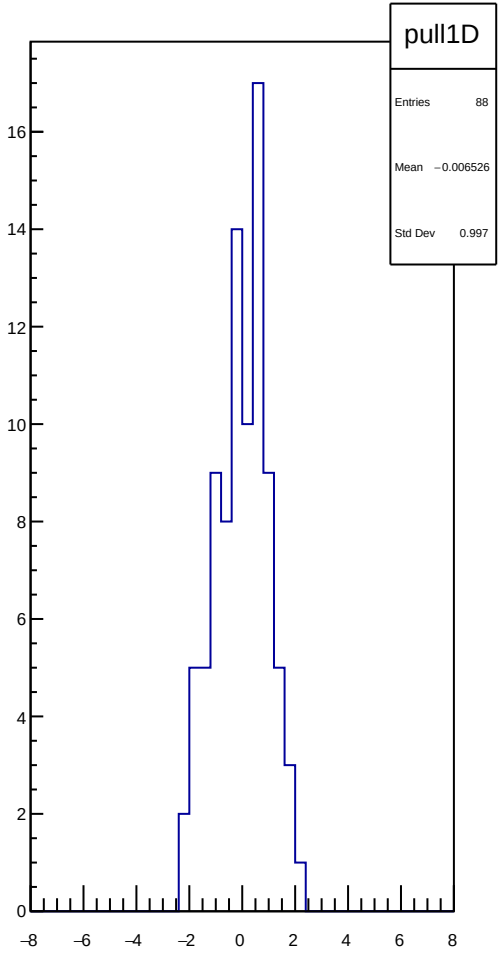

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3162 / 87
p0 53.68 ± 0.04177
60
58
56
54
52
50
48


asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.27 / 87
p0 −1638 ± 452.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −656.4
Std Dev 0
3
2
1
0
−1
−2

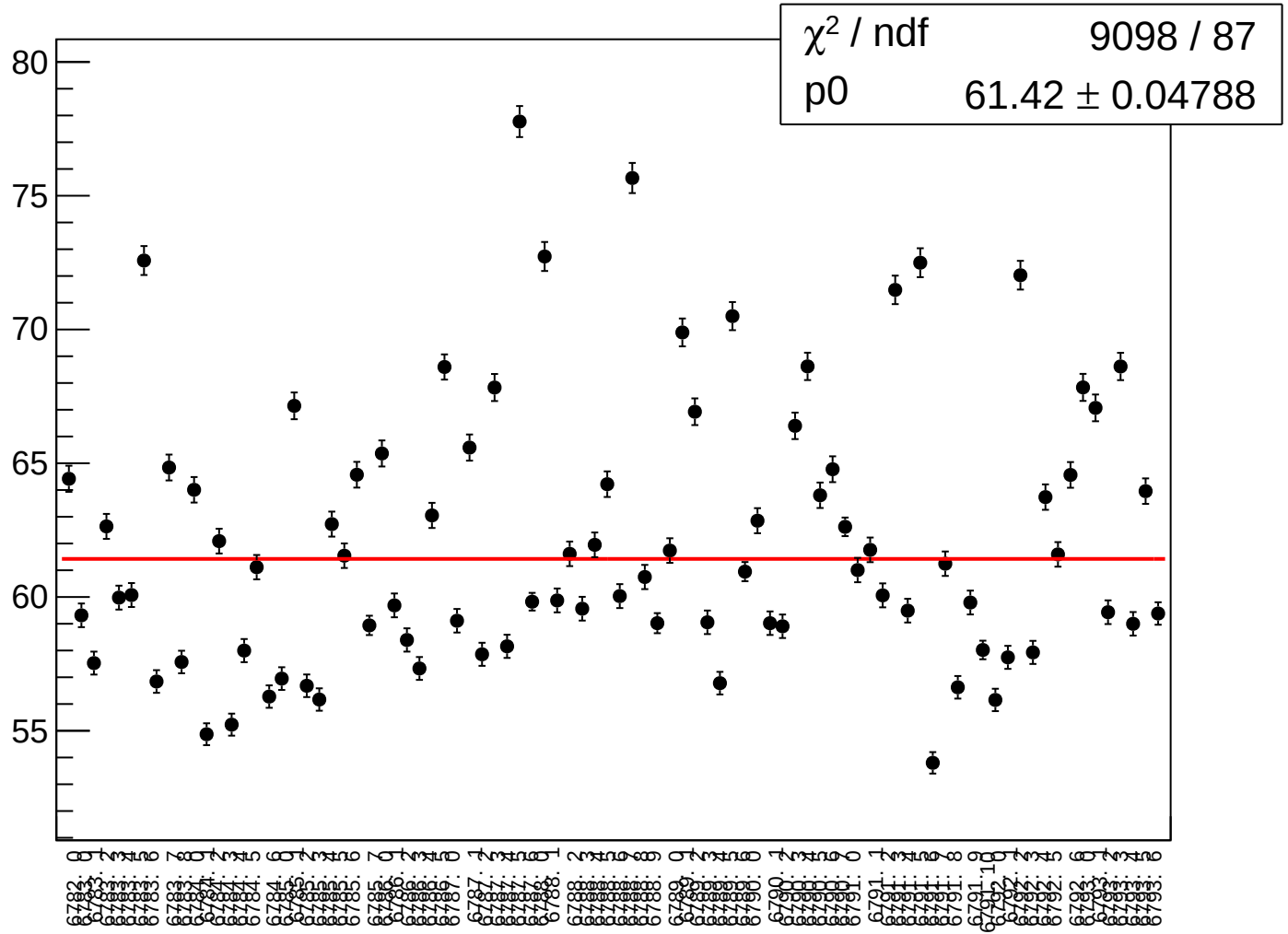

pull1D
Entries 88
Mean −0.007051
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

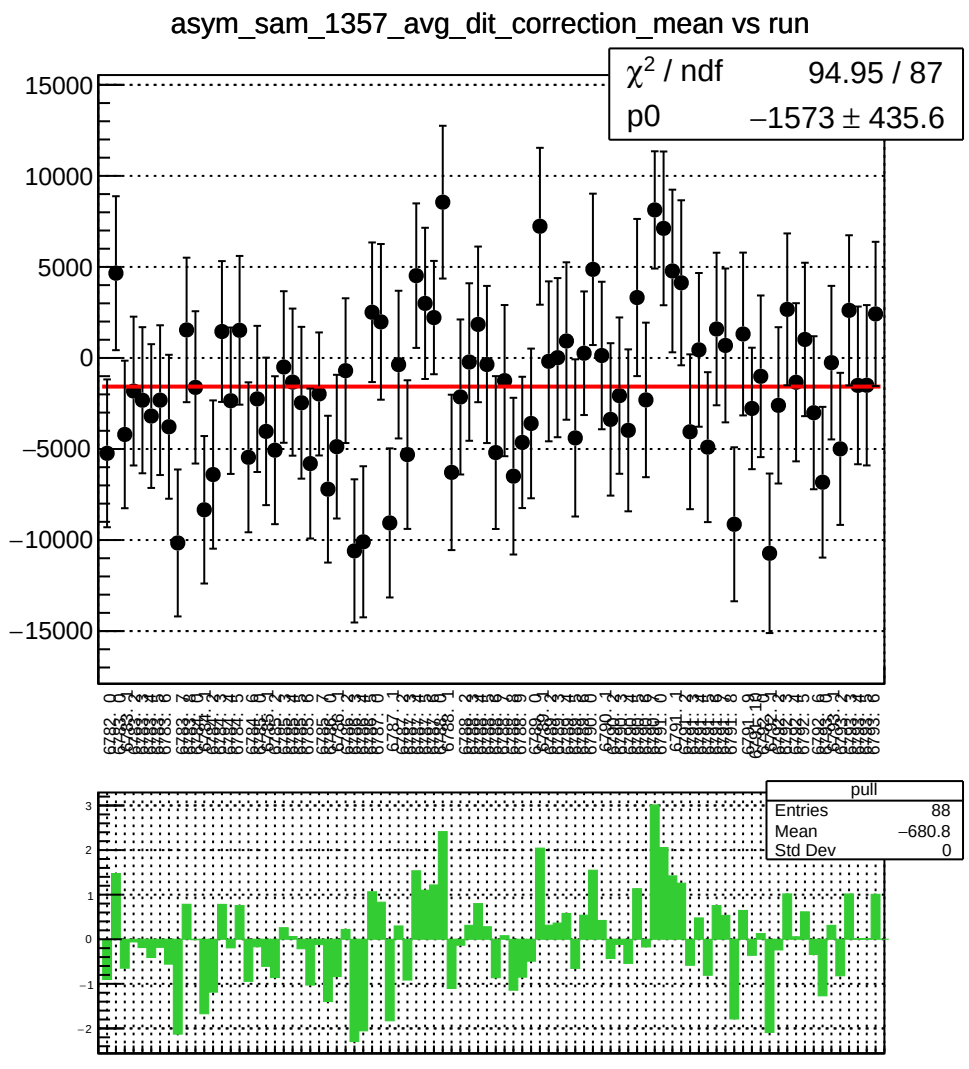

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2435 / 87
p0 411.6 ± 0.3202
440
420
400
380
360

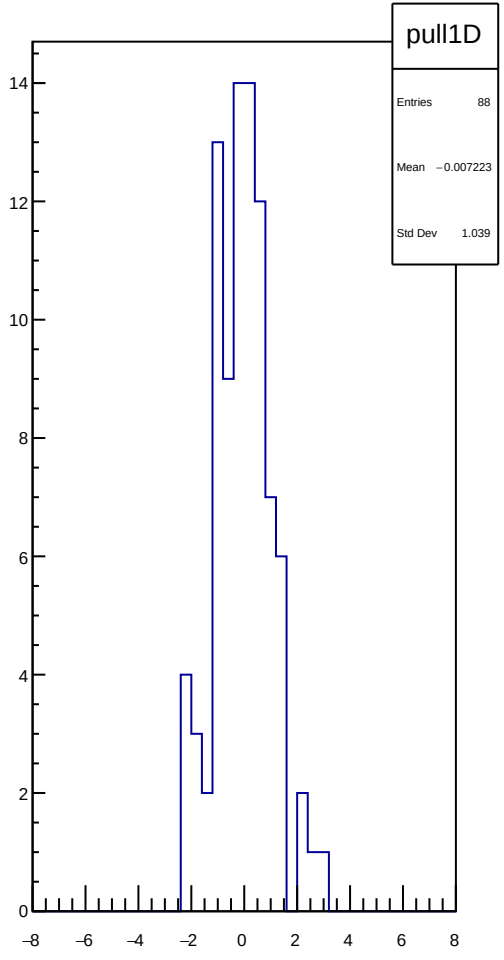

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 87.48 / 87
p0 99.49 ± 67.71
pull
Entries 88
Mean 305.3
Std Dev 0

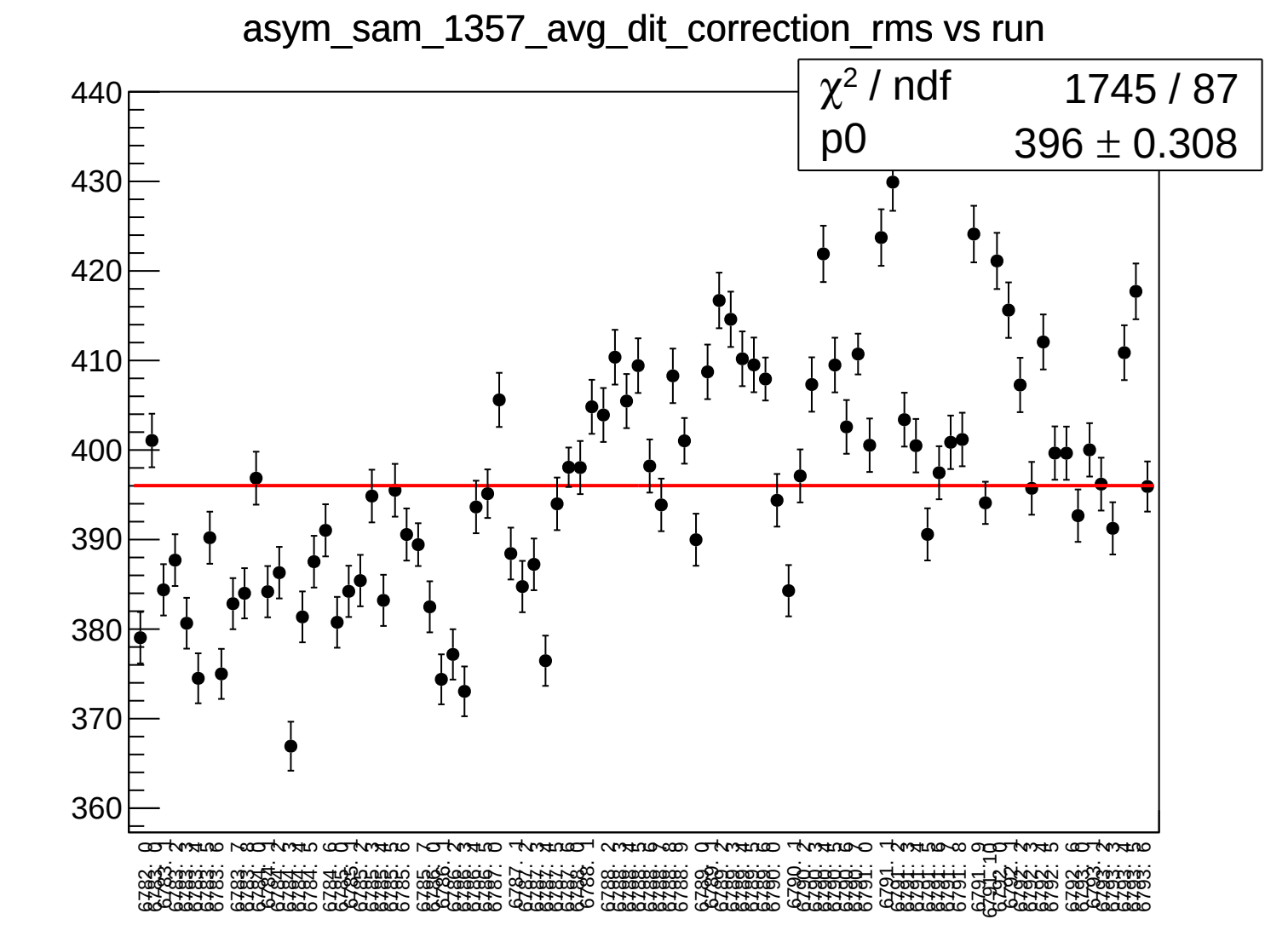

pull1D
Entries 88
Mean −0.006526
Std Dev 0.997

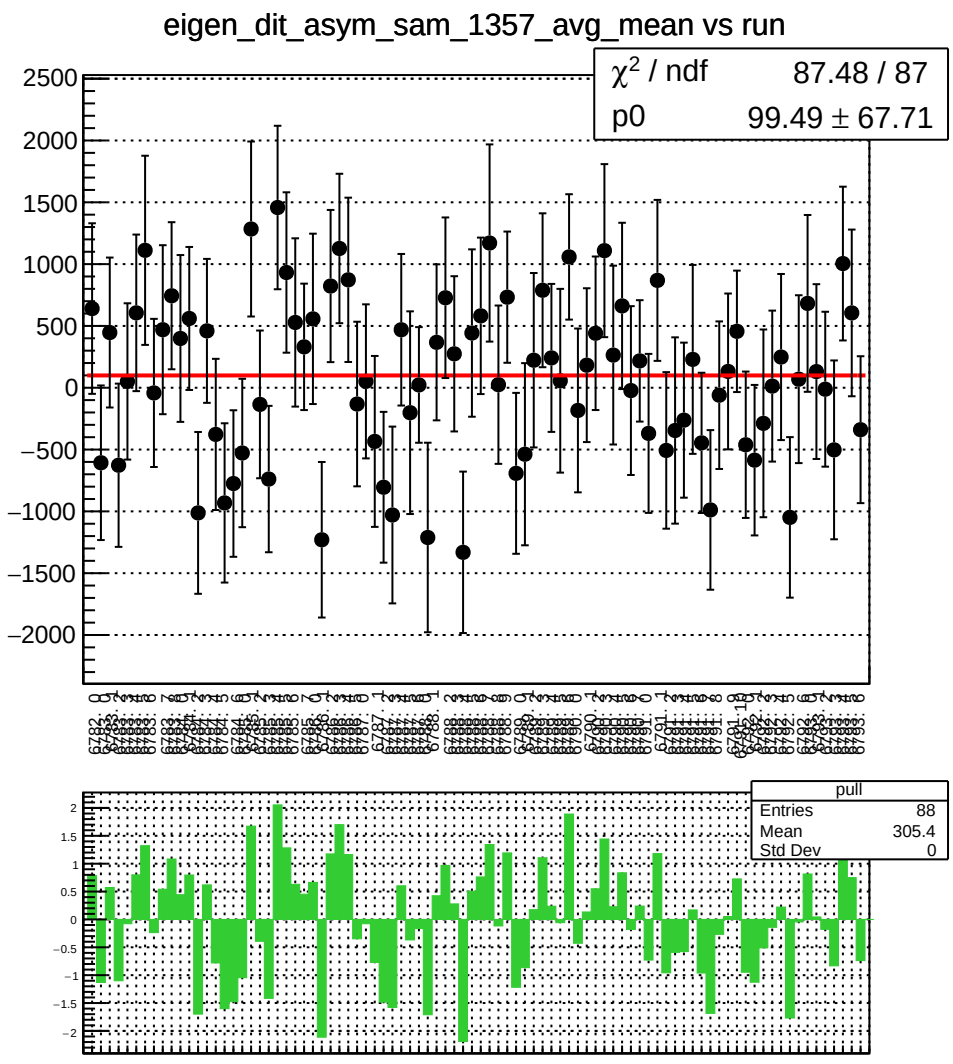
dit_asym_sam_1357_avg_rms vs run

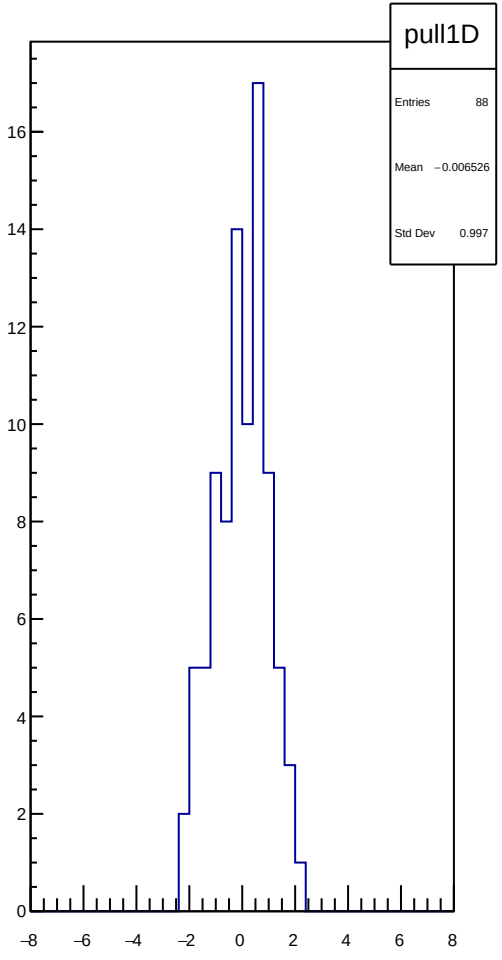


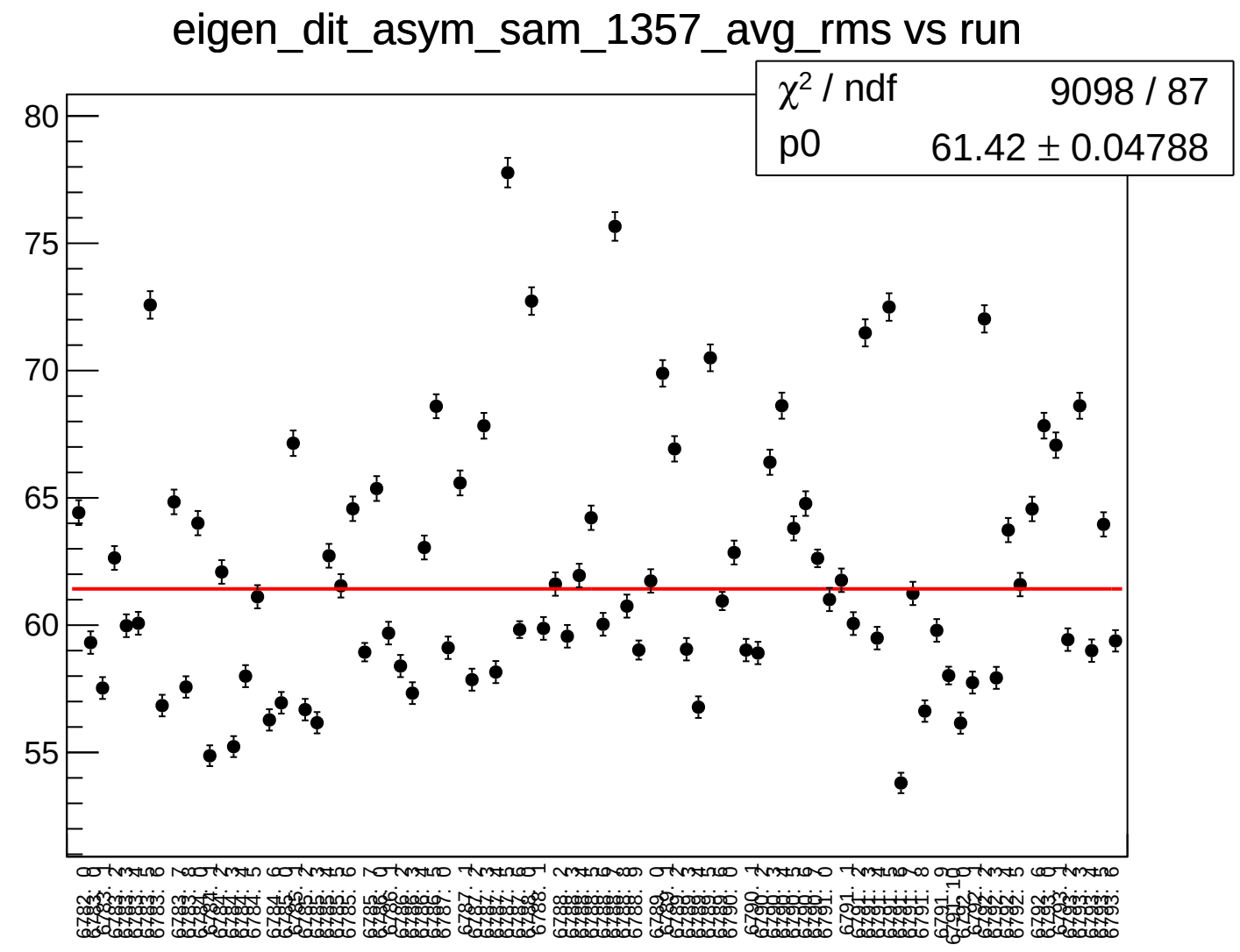

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 94.95 / 87
p0 −1573 ± 435.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −680.8
Std Dev 0
3
2
1
0
−1
−2

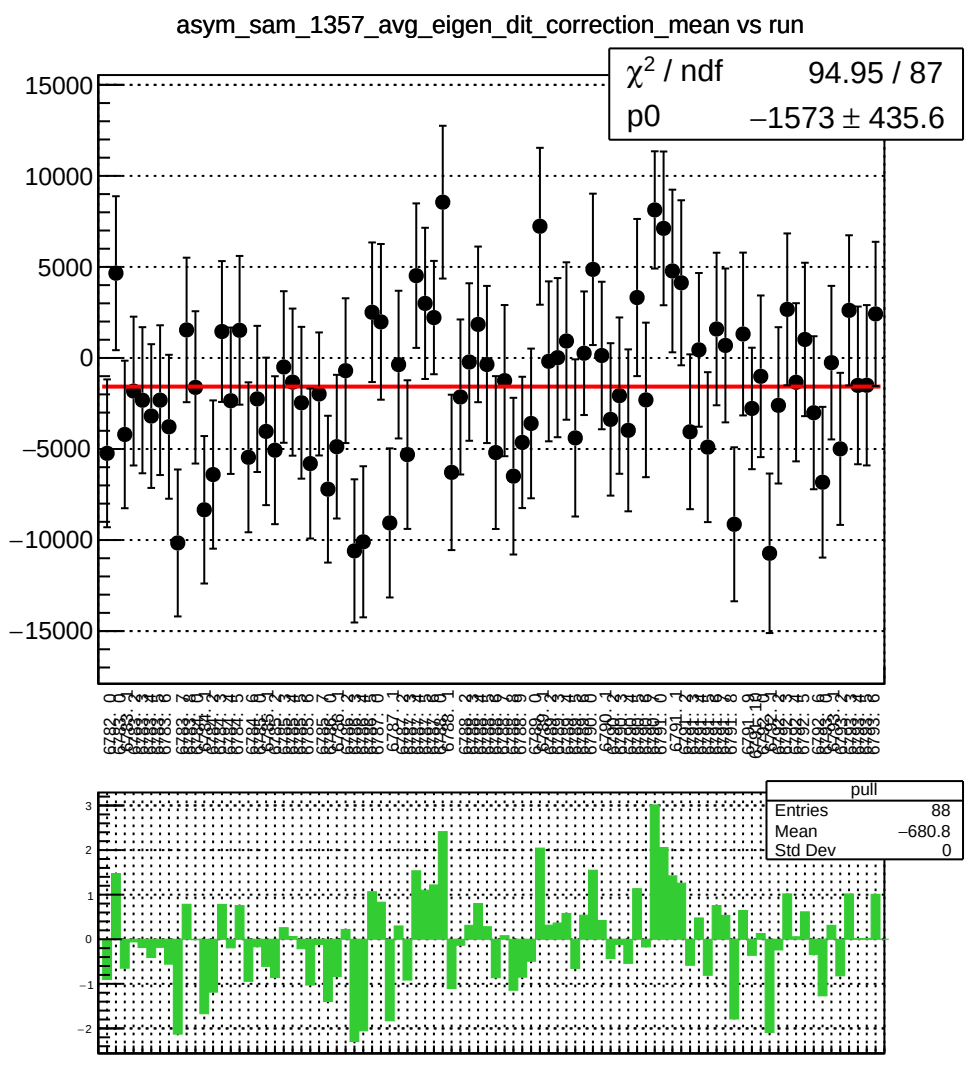

pull1D
Entries 88
Mean −0.007223
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

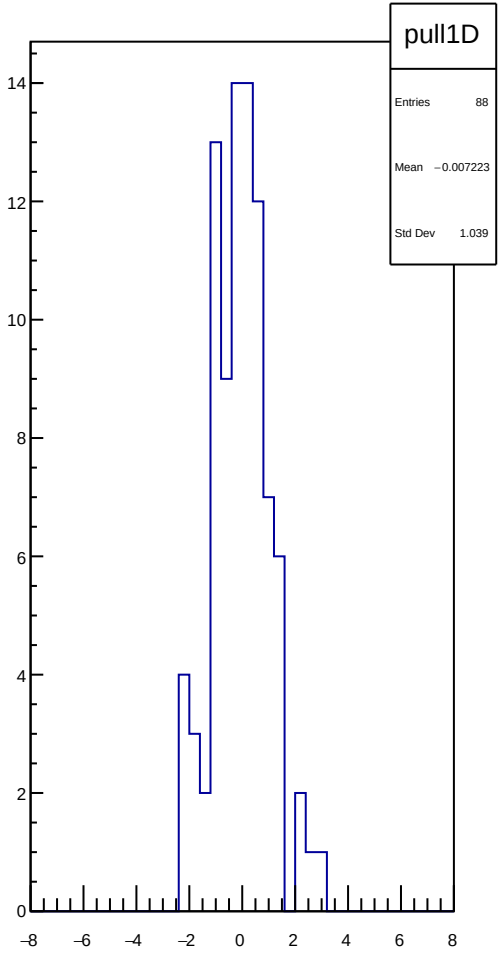

asym_sam_1357_avg_dit_correction_rms vs run
χ^2 / ndf 1745 / 87
p0 396 ± 0.308
440
430
420
410
400
390
380
370
360

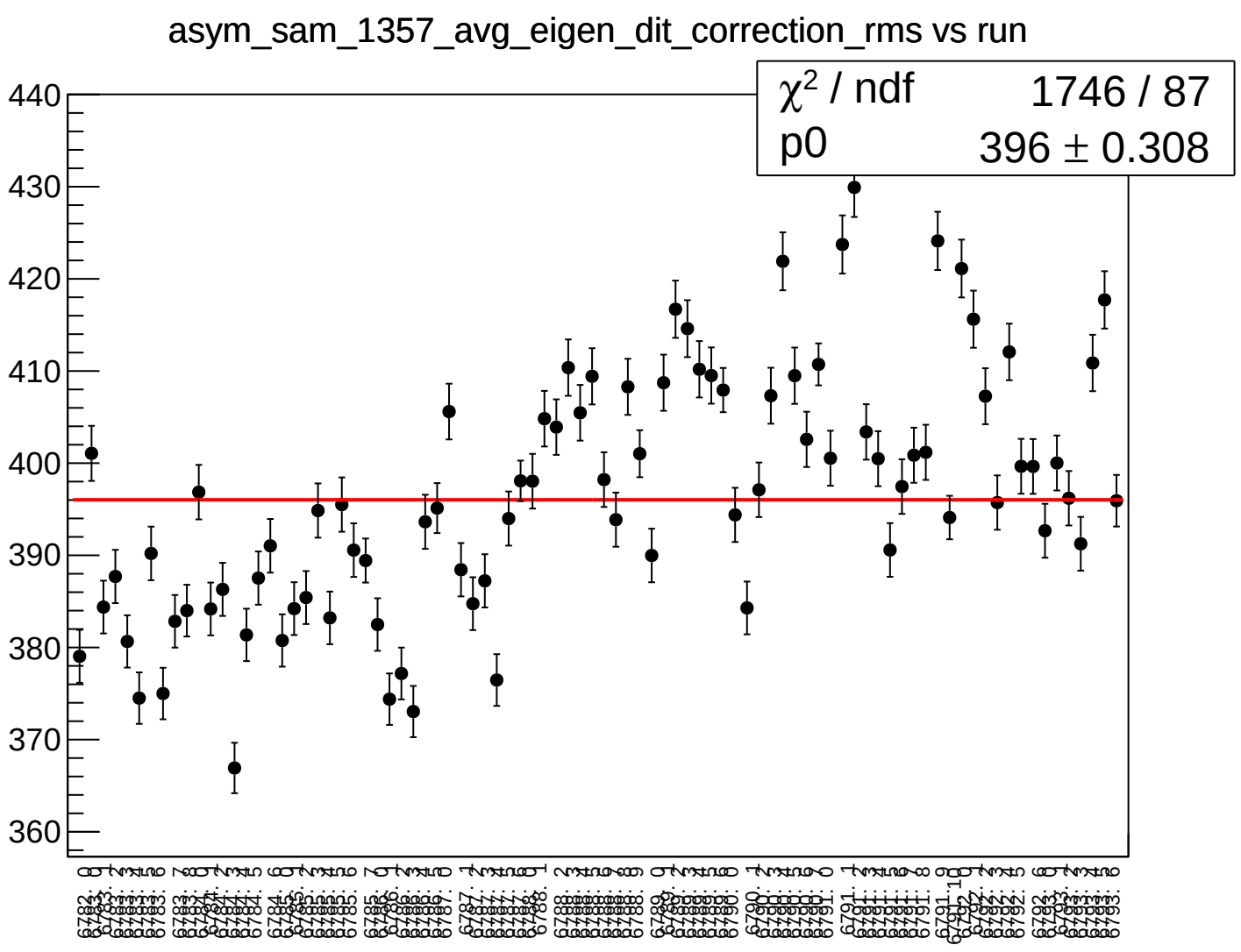

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 87.48 / 87
p0 99.49 ± 67.71
pull
Entries 88
Mean 305.4
Std Dev 0

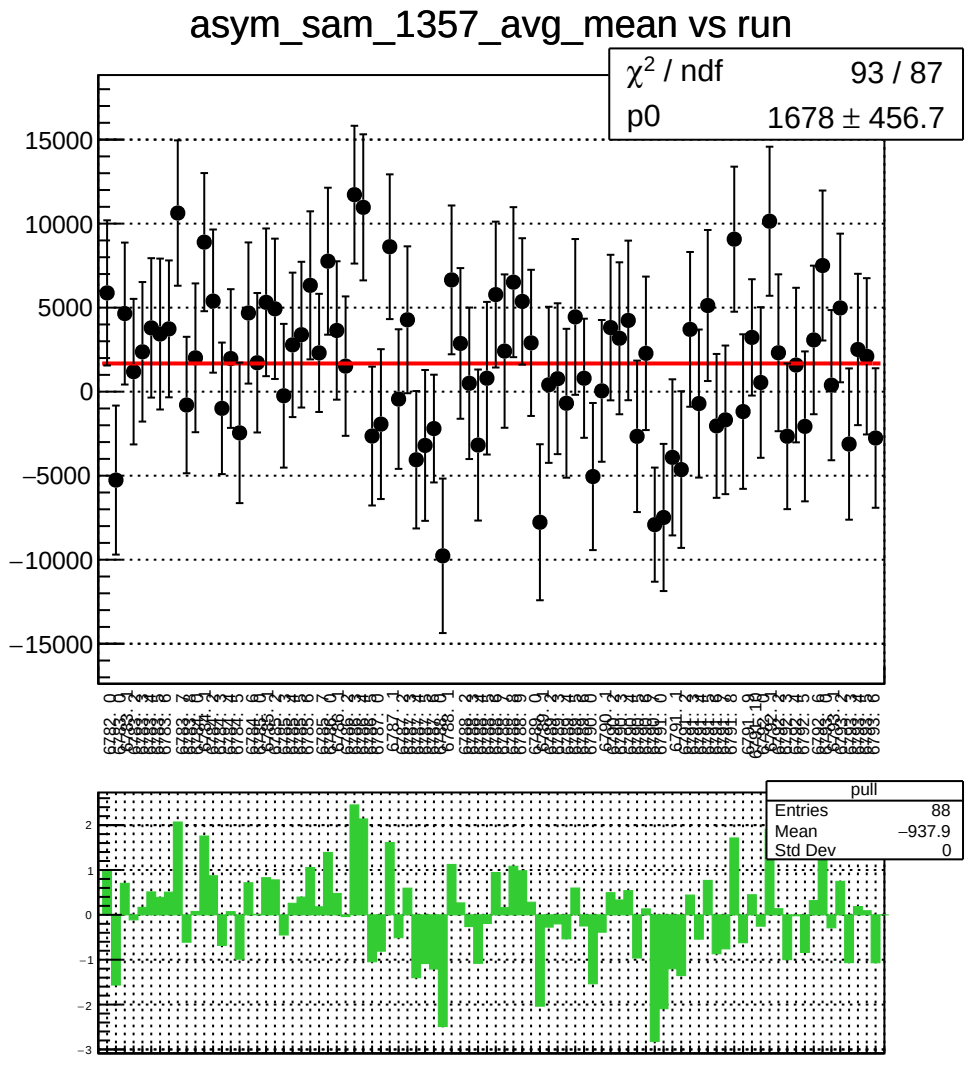

pull1D
Entries 88
Mean −0.006526
Std Dev 0.997

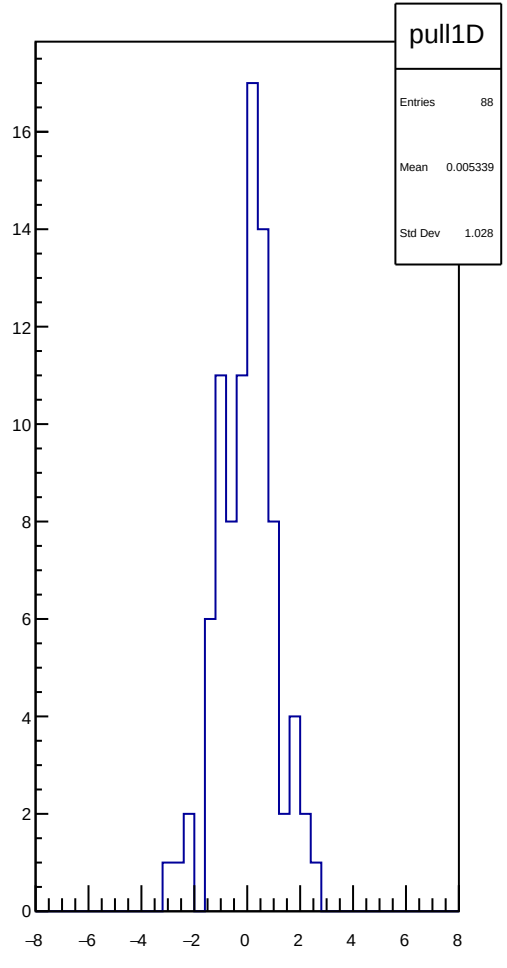

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 9098 / 87
p0 61.42 ± 0.04788
80
75
70
65
60
55

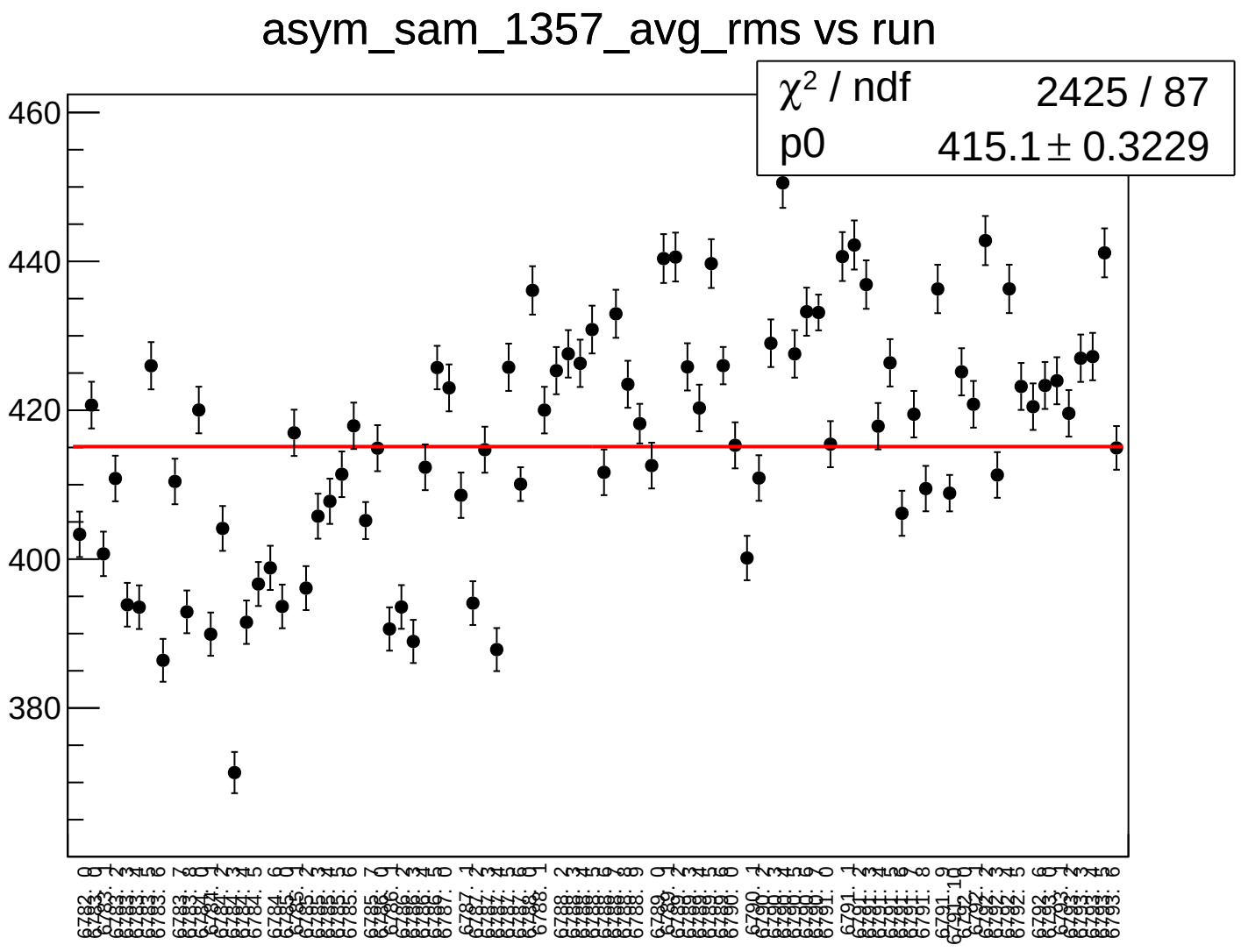

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.95 / 87
p0 −1573 ± 435.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −680.8
Std Dev 0
3
2
1
0
−1
−2

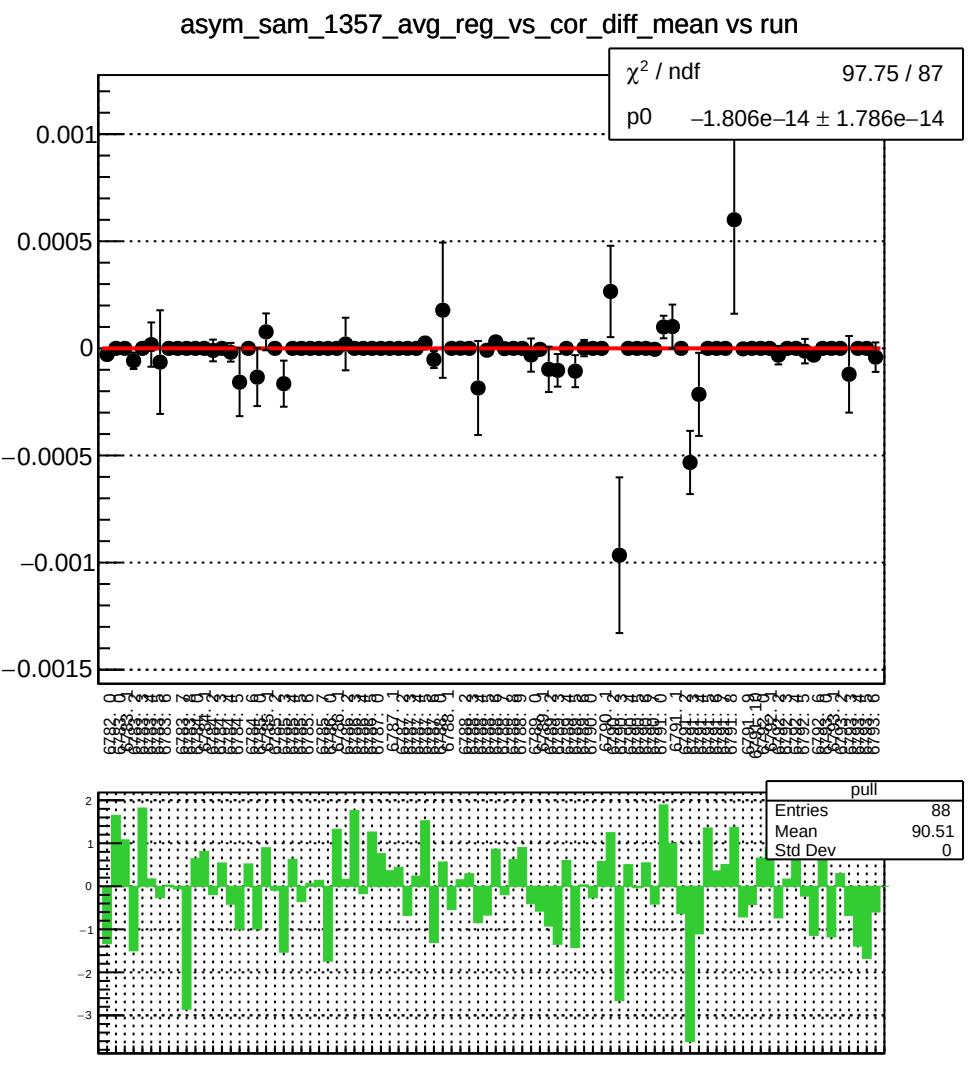

pull1D
Entries 88
Mean −0.007223
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

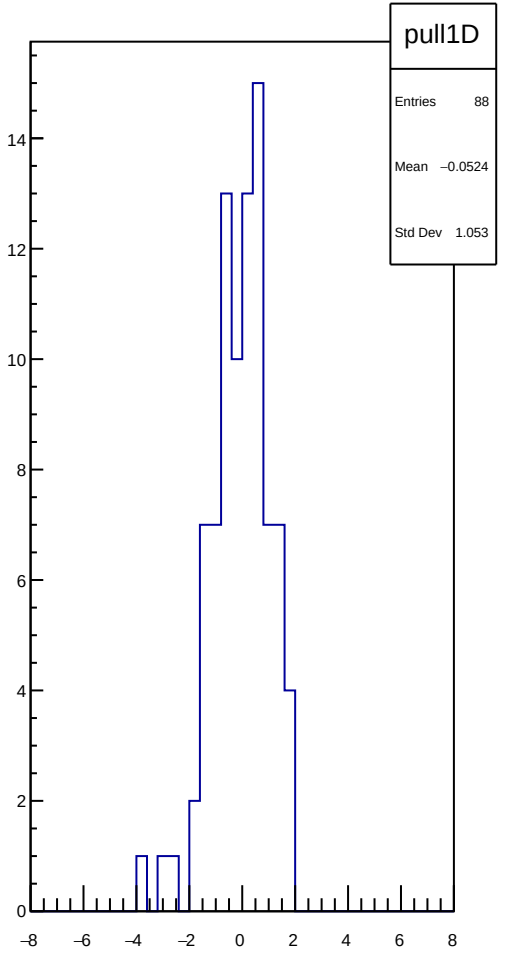

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 1746 / 87
p0 396 ± 0.308
440
430
420
410
400
390
380
370
360

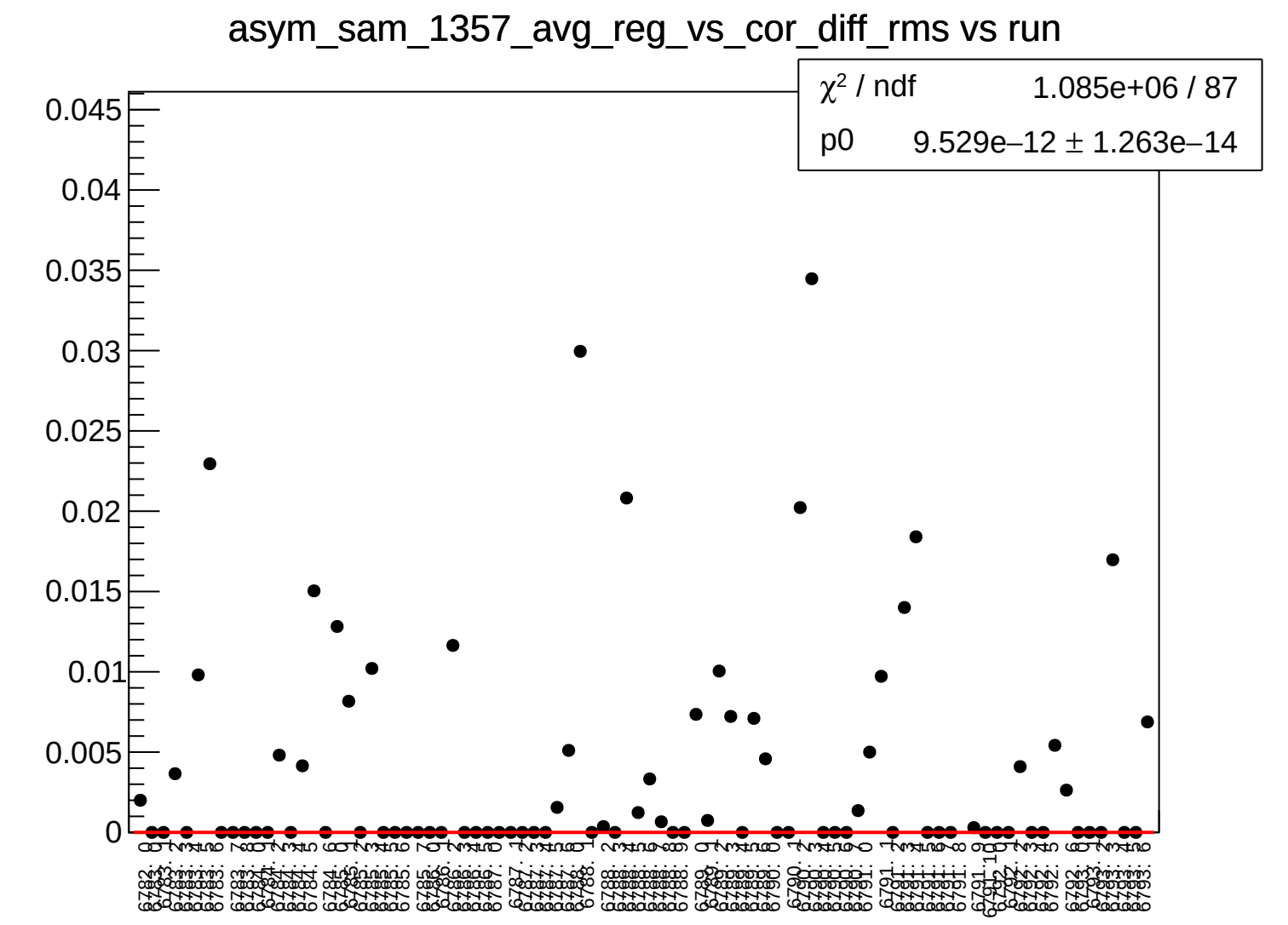

asym_sam_1357_avg_mean vs run
χ² / ndf 93 / 87
p0 1678 ± 456.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −937.9
Std Dev 0
2
1
0
−1
−2
−3

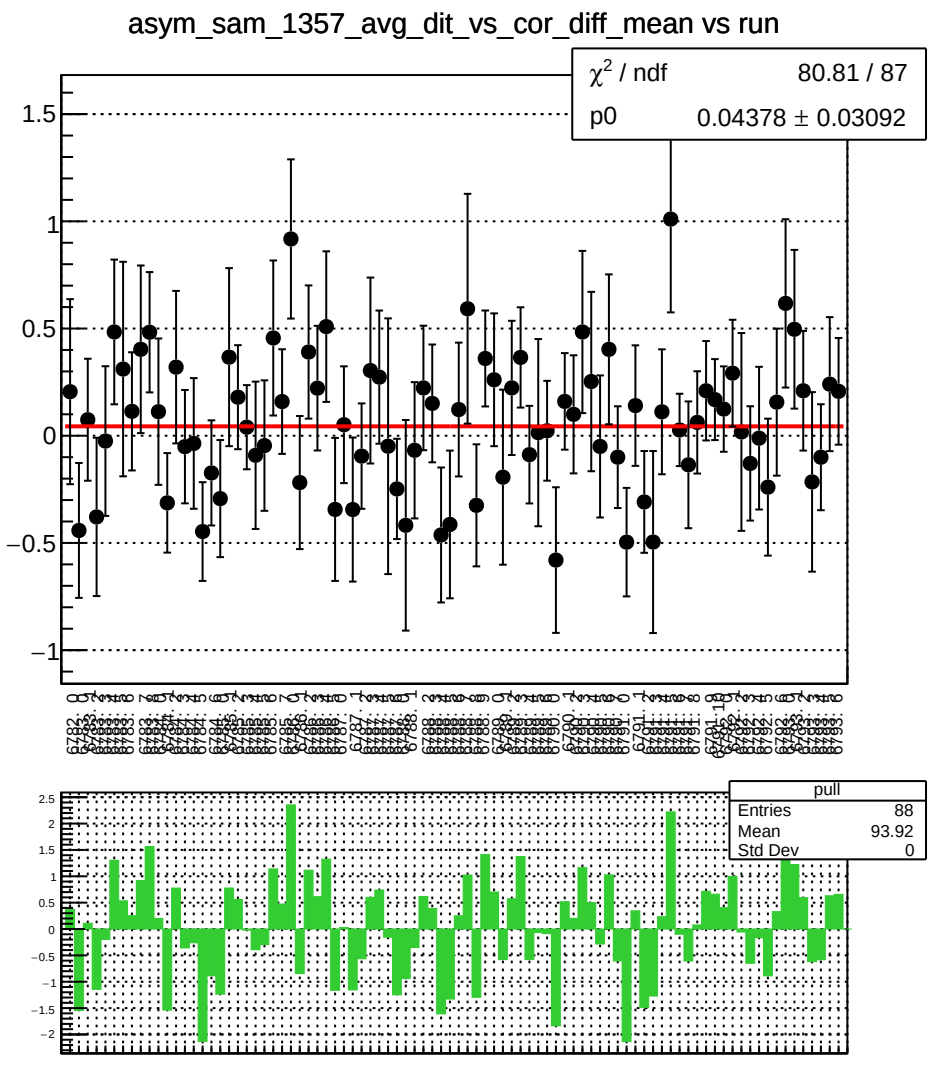

pull1D
Entries 88
Mean 0.005339
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

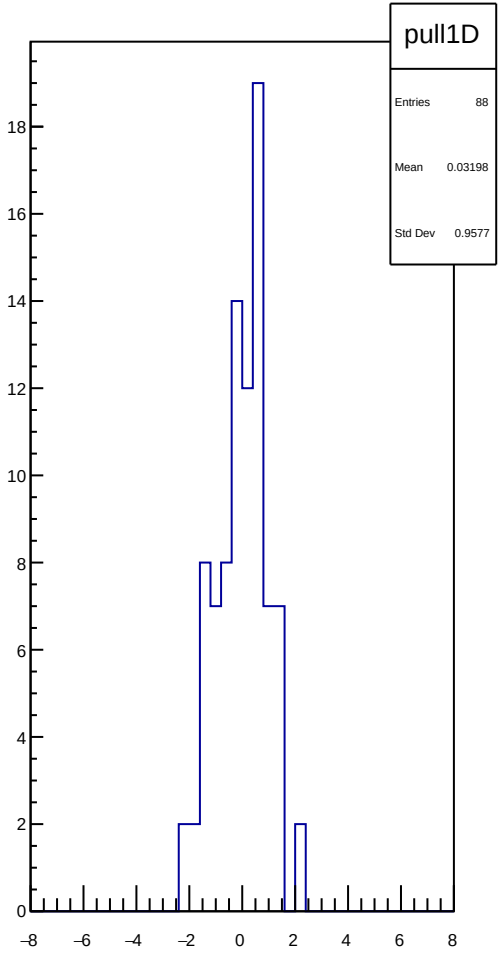

asym_sam_1357_avg_rms vs run
χ² / ndf 2425 / 87
p0 415.1 ± 0.3229
460
440
420
400
380

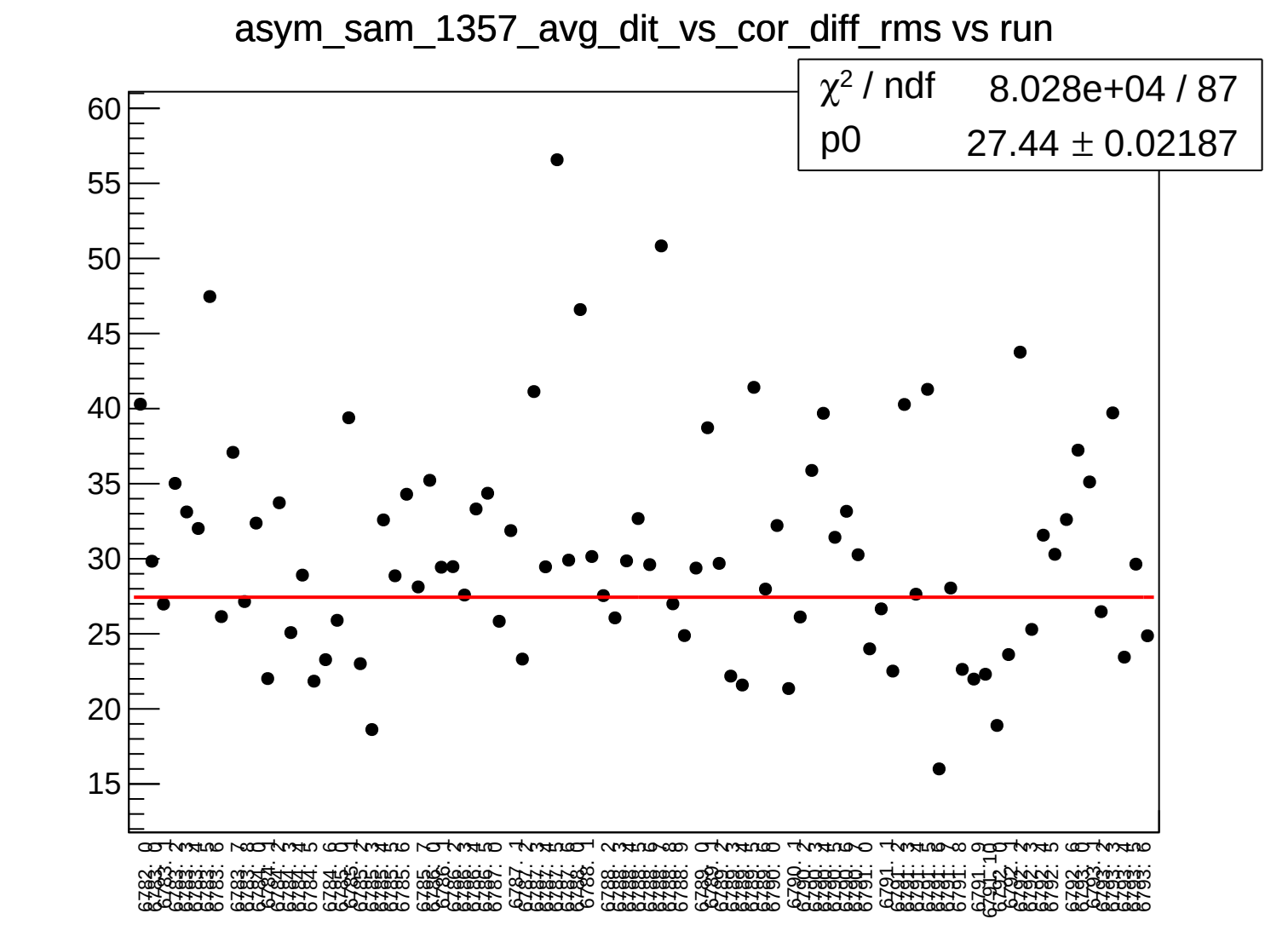

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.75 / 87
p0 −1.806e−14 ± 1.786e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 90.51
Std Dev 0
2
1
0
−1
−2
−3

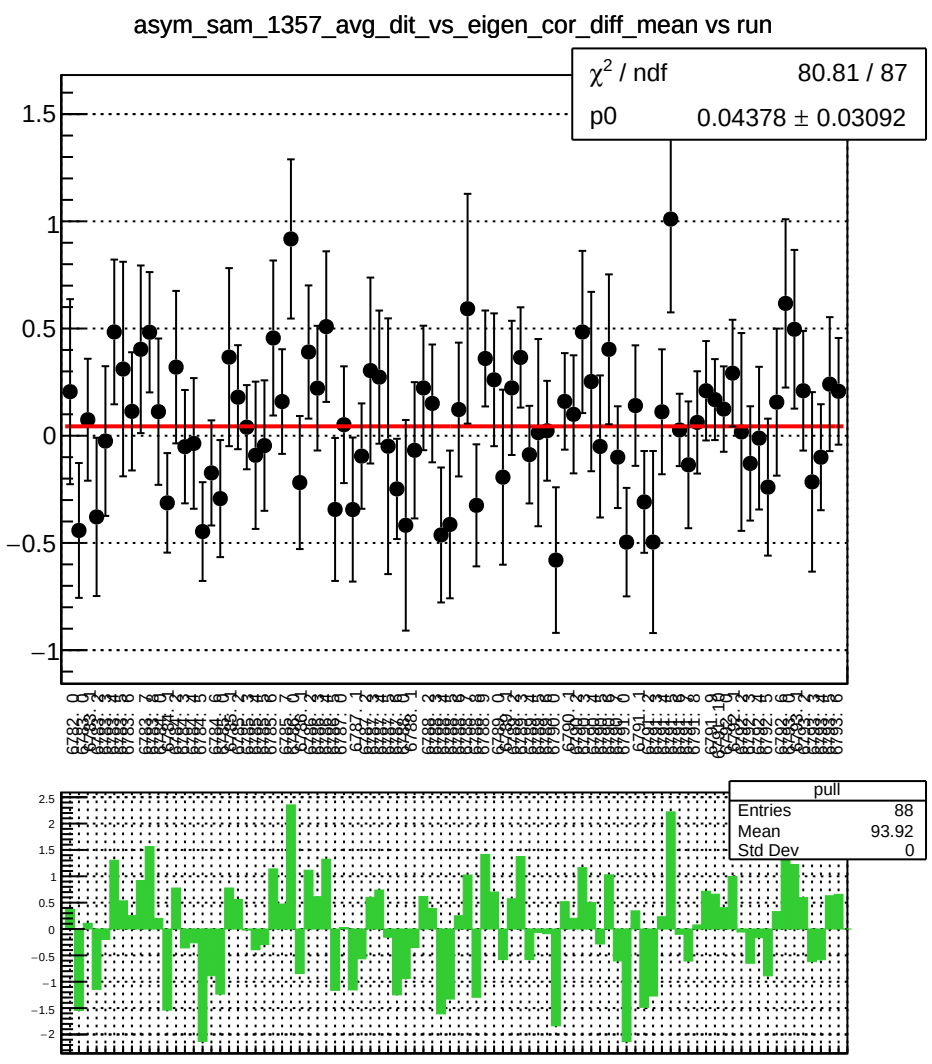

pull1D
Entries 88
Mean −0.0524
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

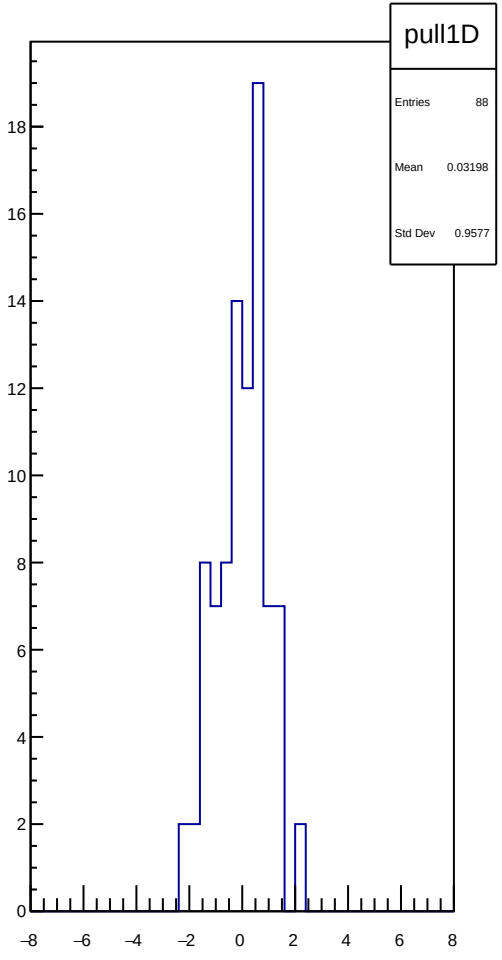

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 87
p0 9.529e−12 ± 1.263e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

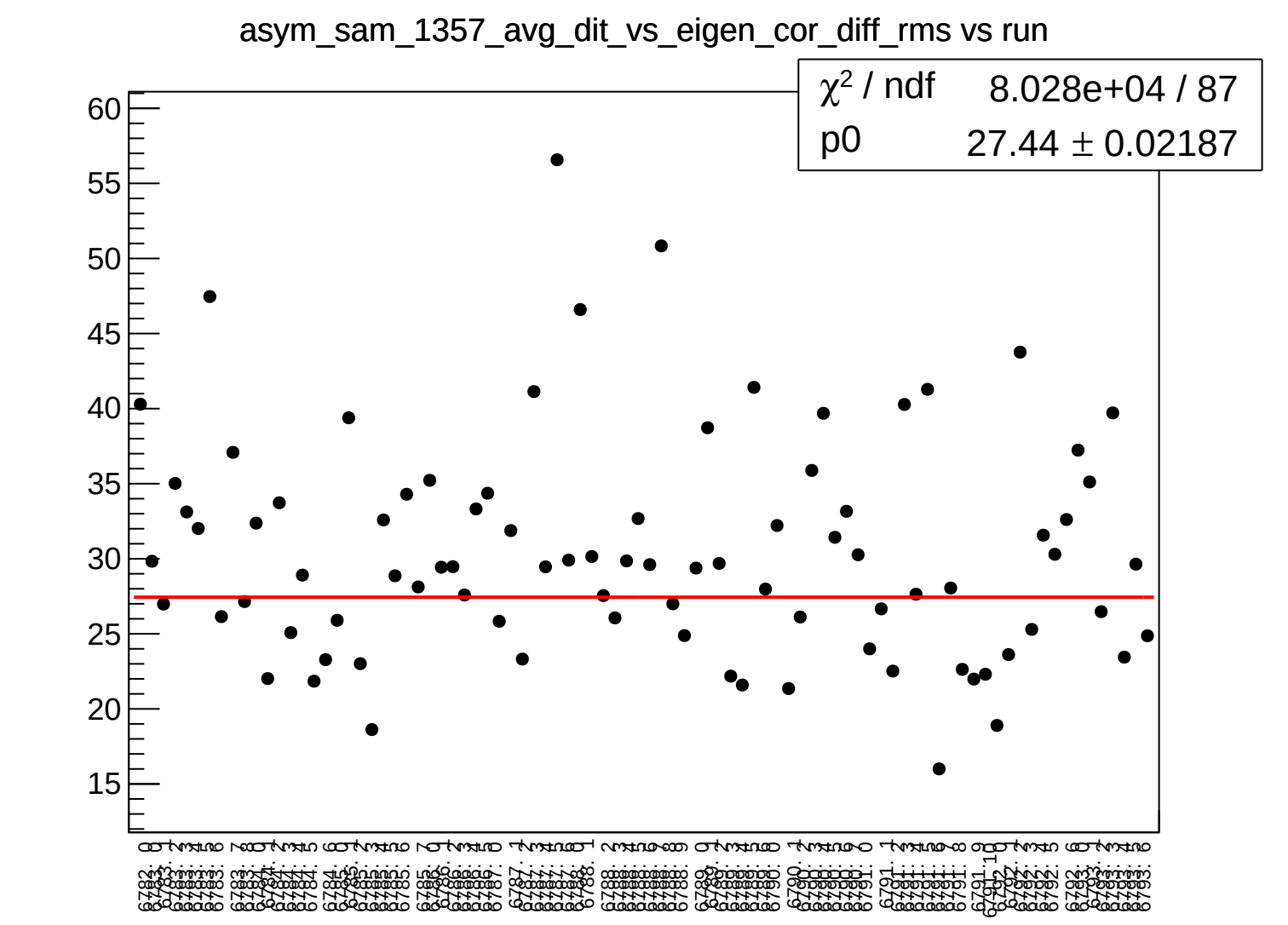

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.81 / 87
p0 0.04378 ± 0.03092
pull
Entries 88
Mean 93.92
Std Dev 0

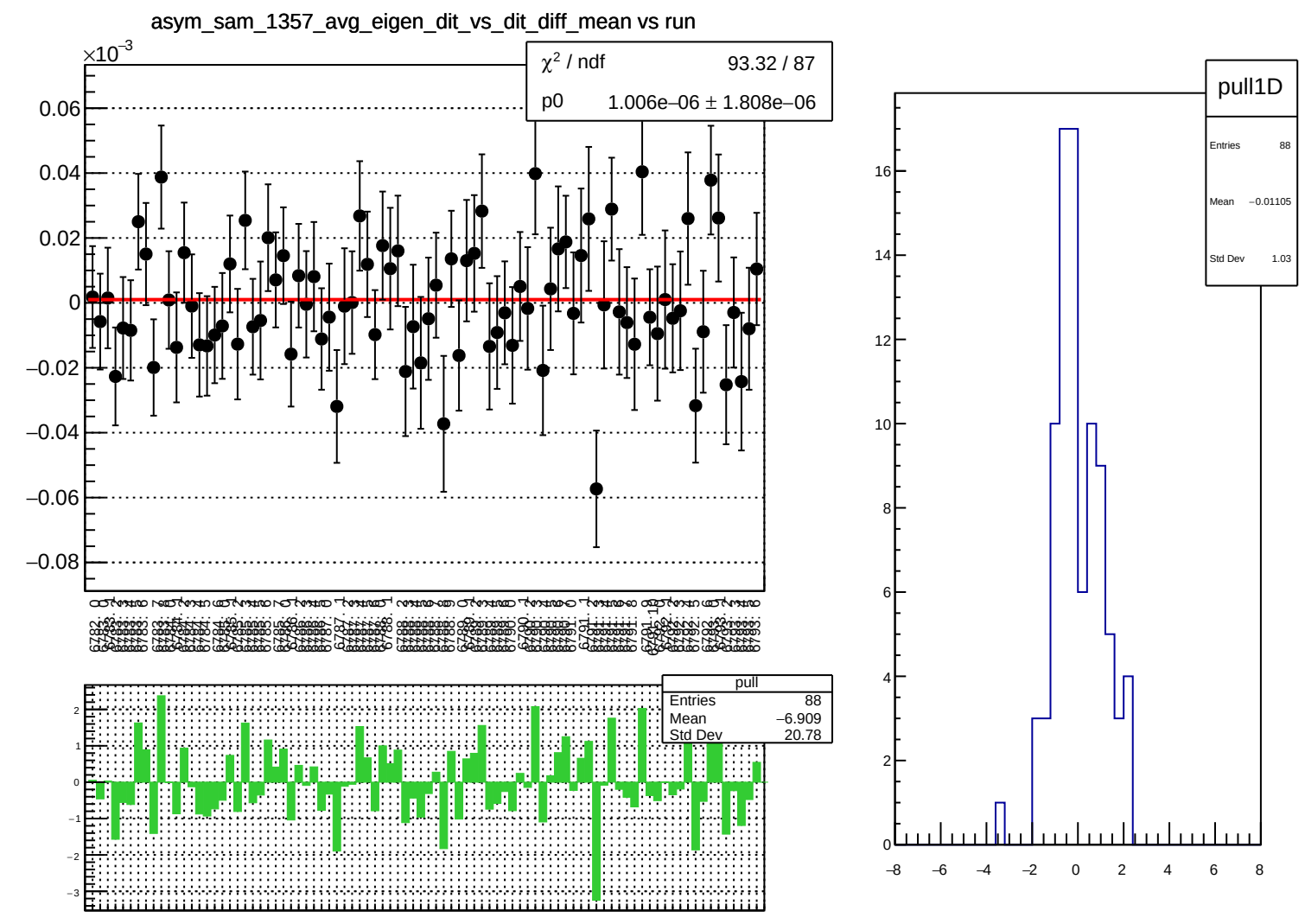

pull1D
Entries 88
Mean 0.03198
Std Dev 0.9577

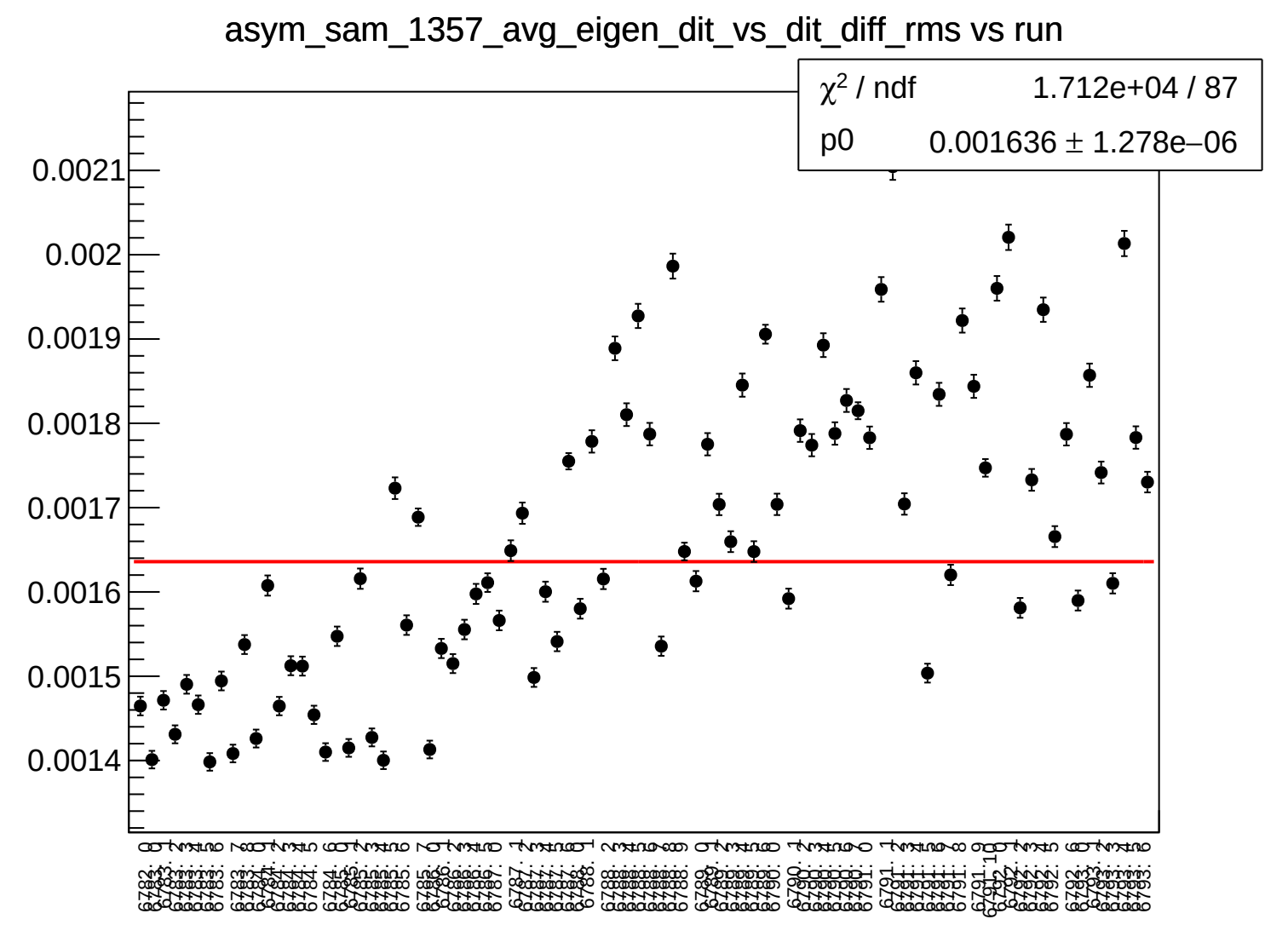

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.028e+04 / 87
p0 27.44 ± 0.02187
60
55
50
45
40
35
30
25
20
15

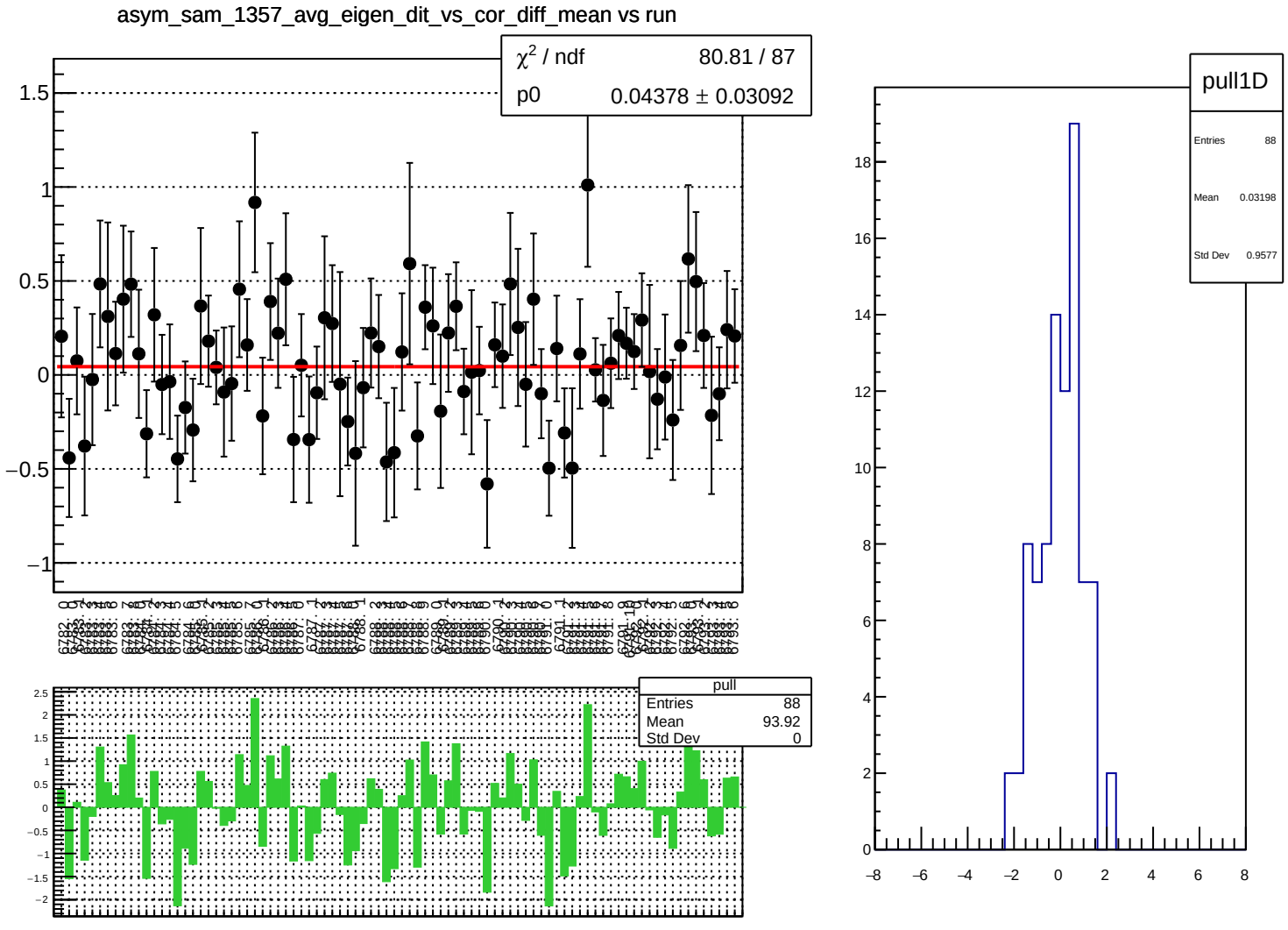

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.81 / 87
p0 0.04378 ± 0.03092
pull
Entries 88
Mean 93.92
Std Dev 0

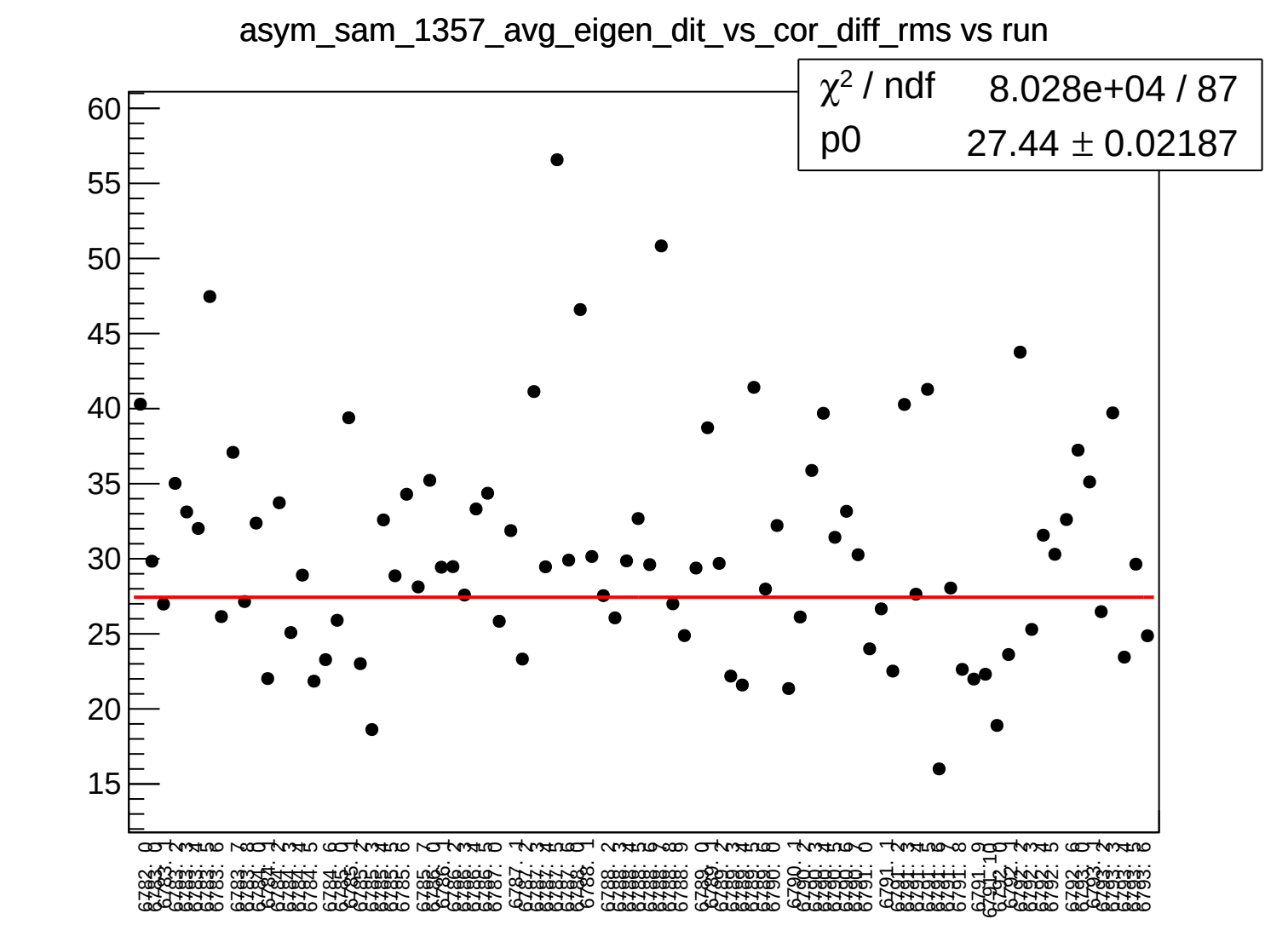

pull1D
Entries 88
Mean 0.03198
Std Dev 0.9577

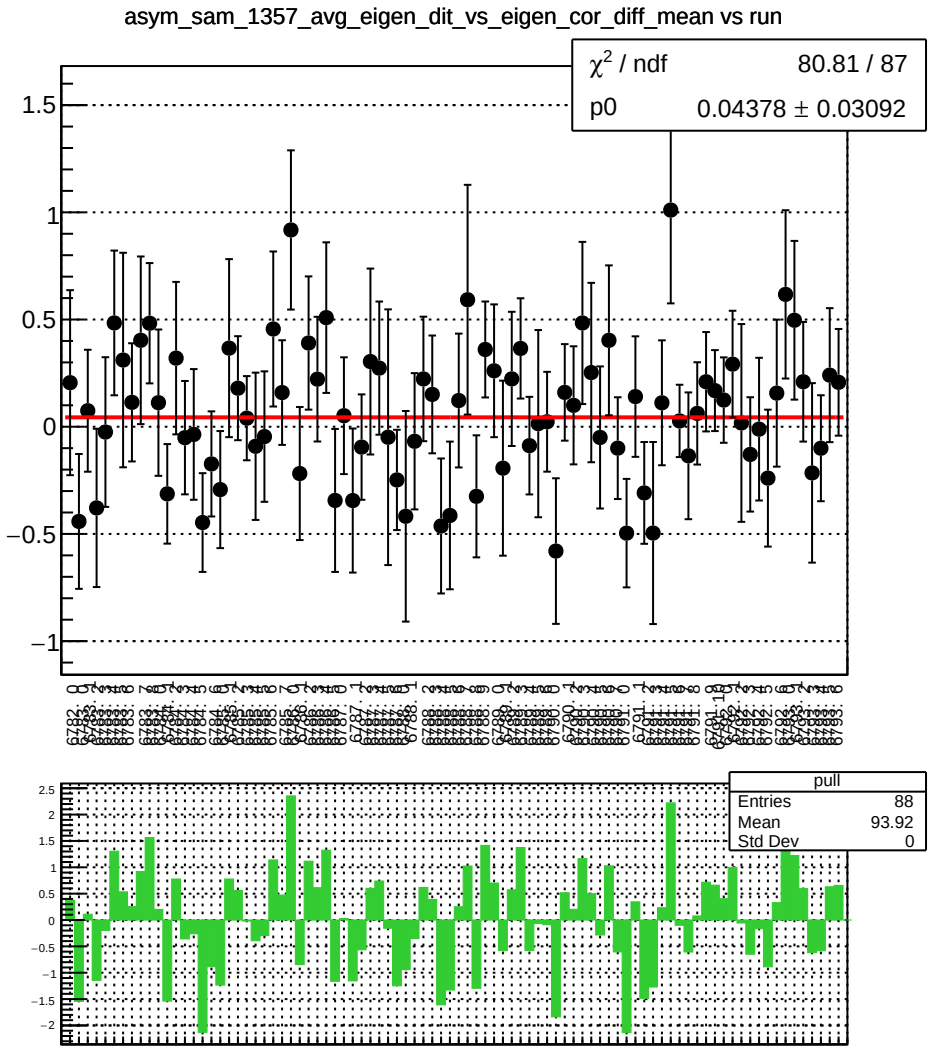

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.028e+04 / 87
p0 27.44 ± 0.02187
60
55
50
45
40
35
30
25
20
15

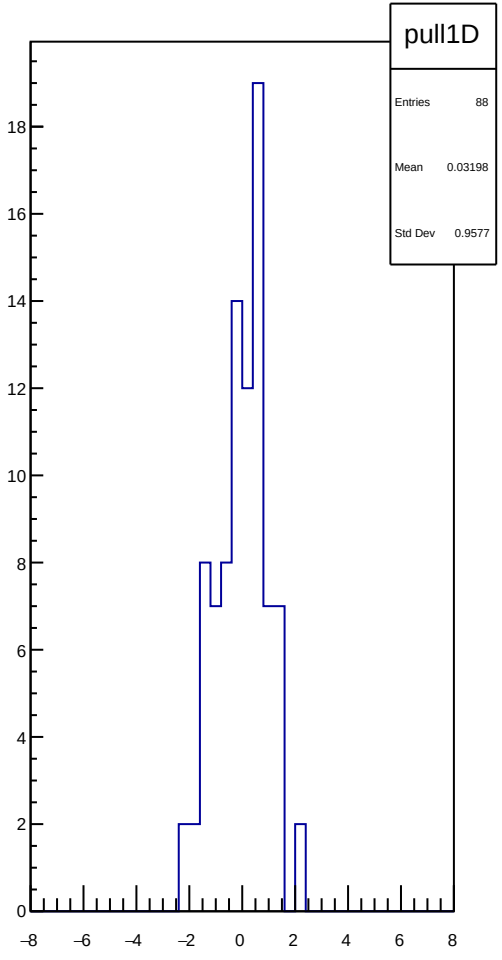

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.32 / 87
p0 1.006e−06 ± 1.808e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean −6.909
Std Dev 20.78
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01105
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

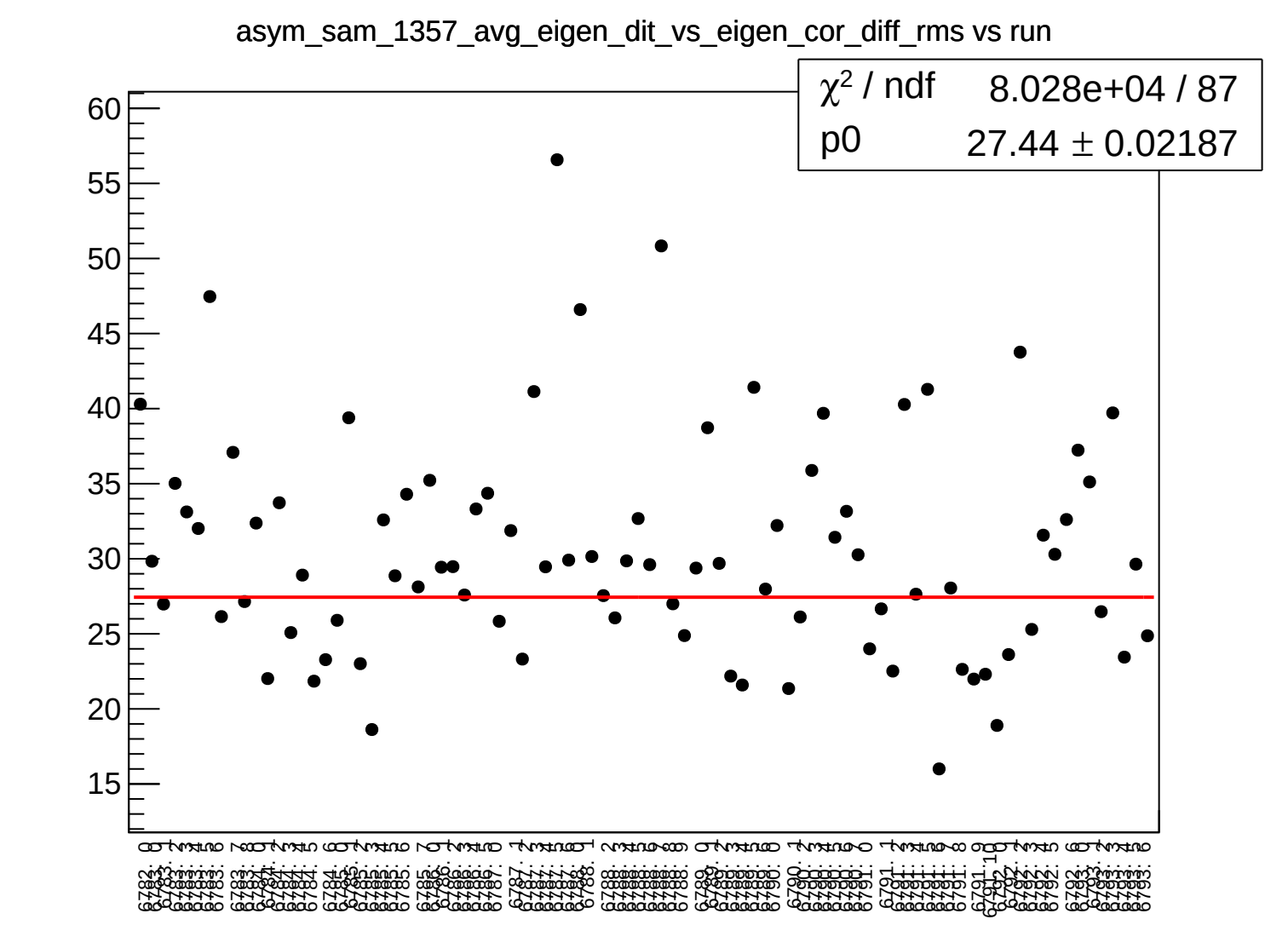

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.712e+04 / 87
p0 0.001636 ± 1.278e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

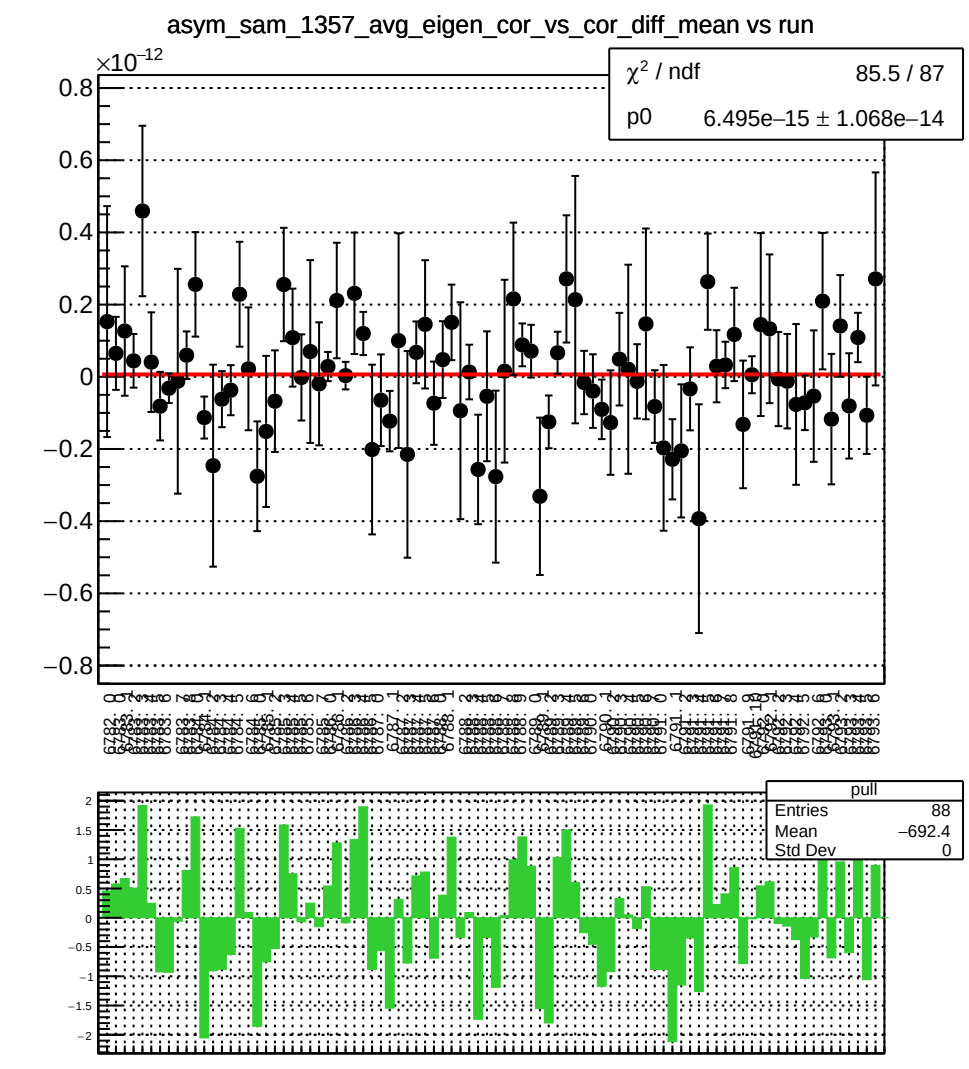

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.81 / 87
p0 0.04378 ± 0.03092
pull
Entries 88
Mean 93.92
Std Dev 0
pull1D
Entries 88
Mean 0.03198
Std Dev 0.9577

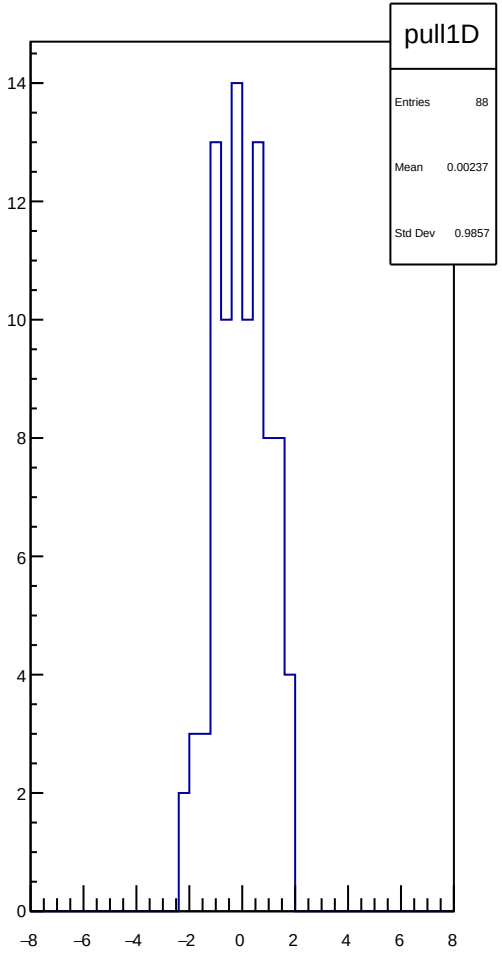

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.028e+04 / 87
p0 27.44 ± 0.02187
60
55
50
45
40
35
30
25
20
15

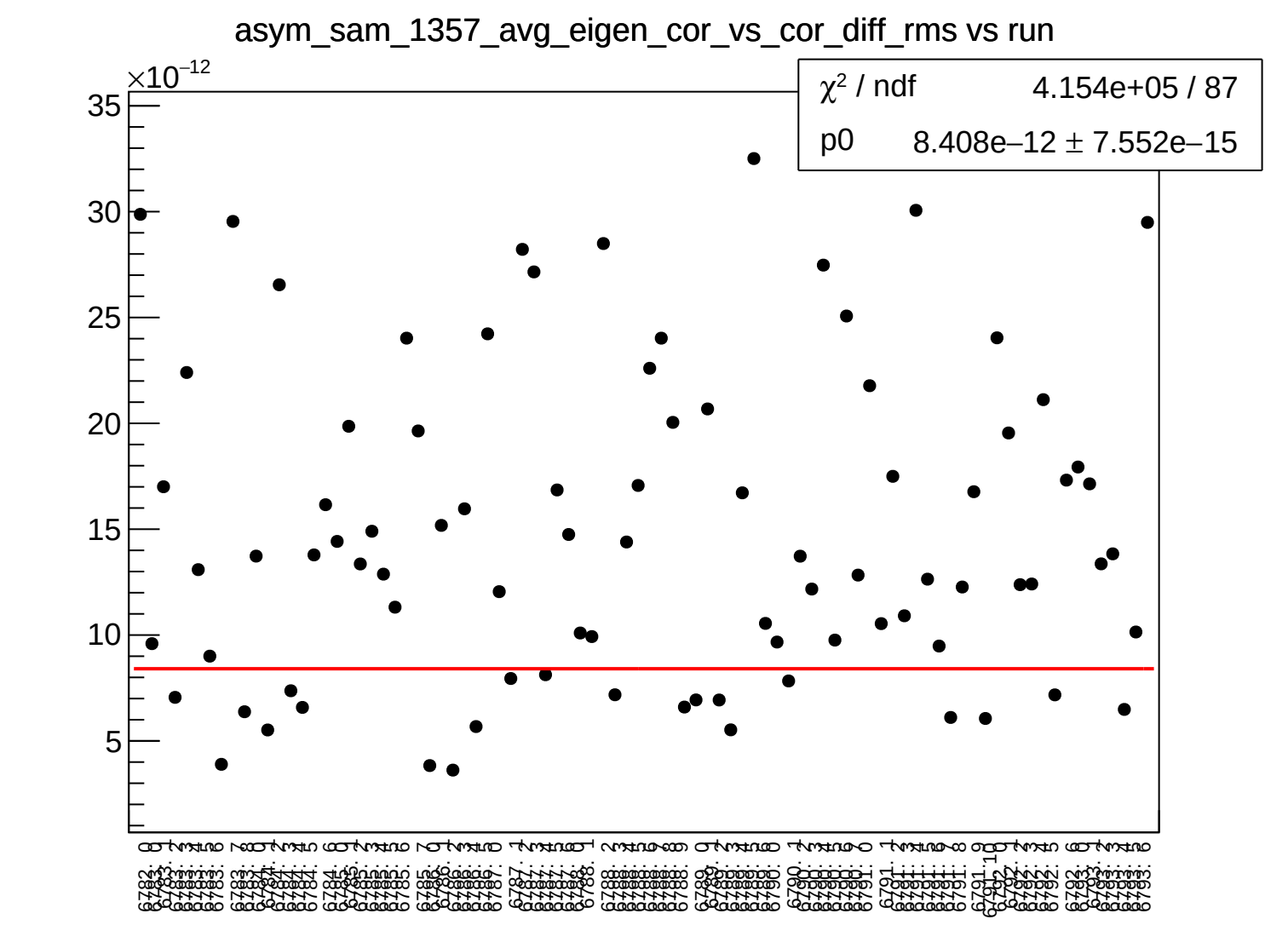

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.81 / 87
p0 0.04378 ± 0.03092
pull
Entries 88
Mean 93.92
Std Dev 0

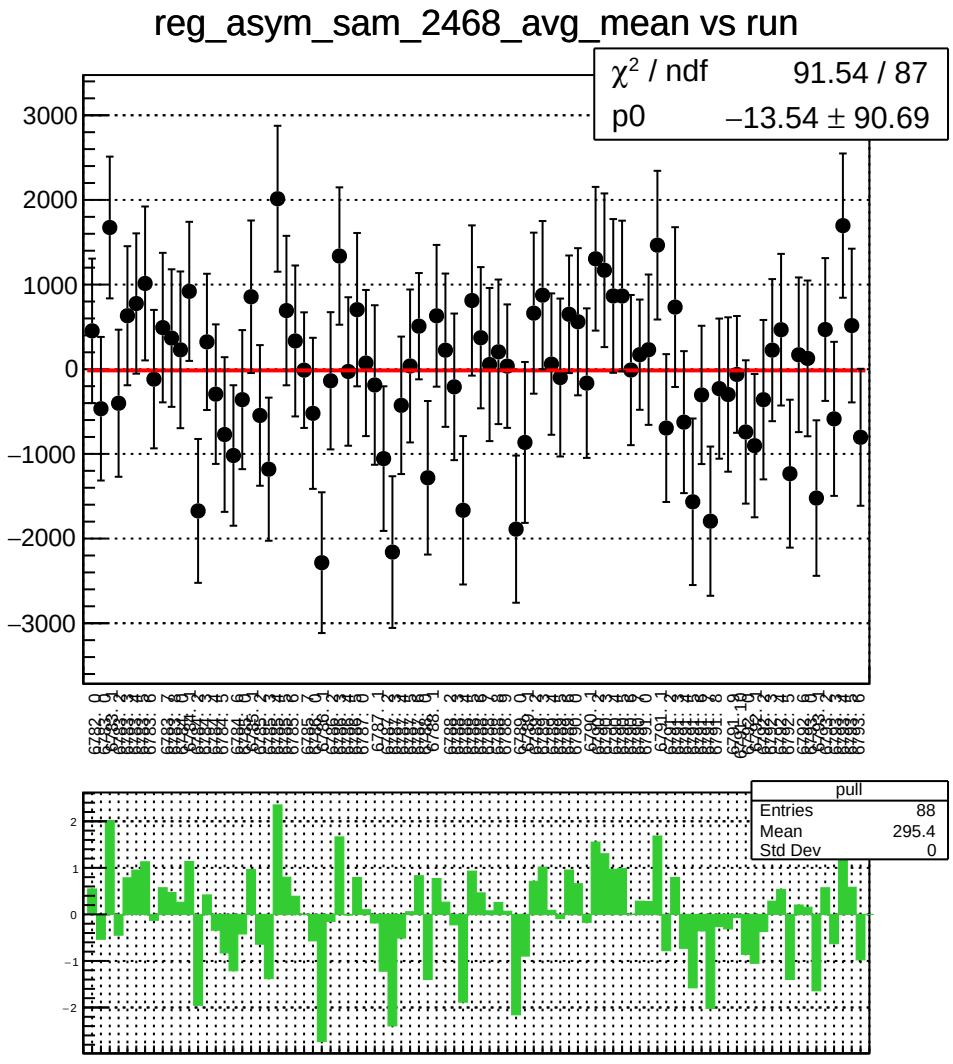

pull1D
Entries 88
Mean 0.03198
Std Dev 0.9577

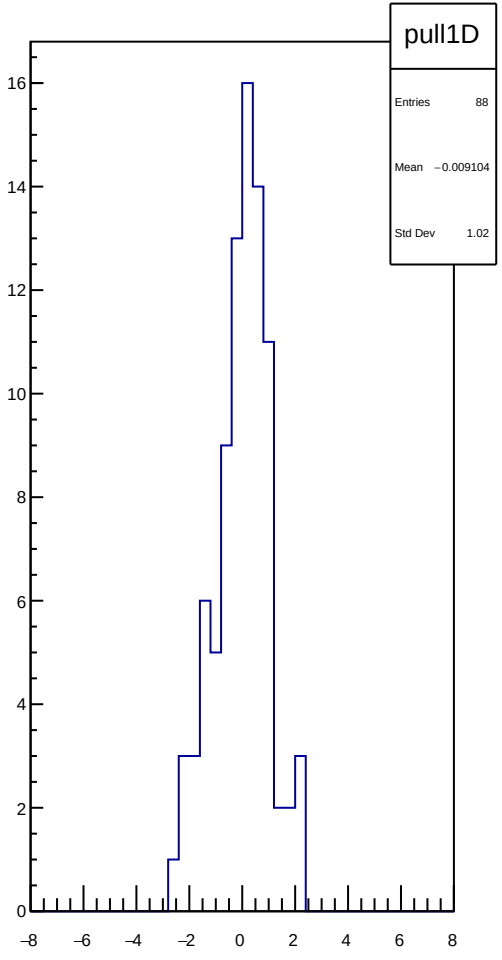

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.028e+04 / 87
p0 27.44 ± 0.02187
60
55
50
45
40
35
30
25
20
15

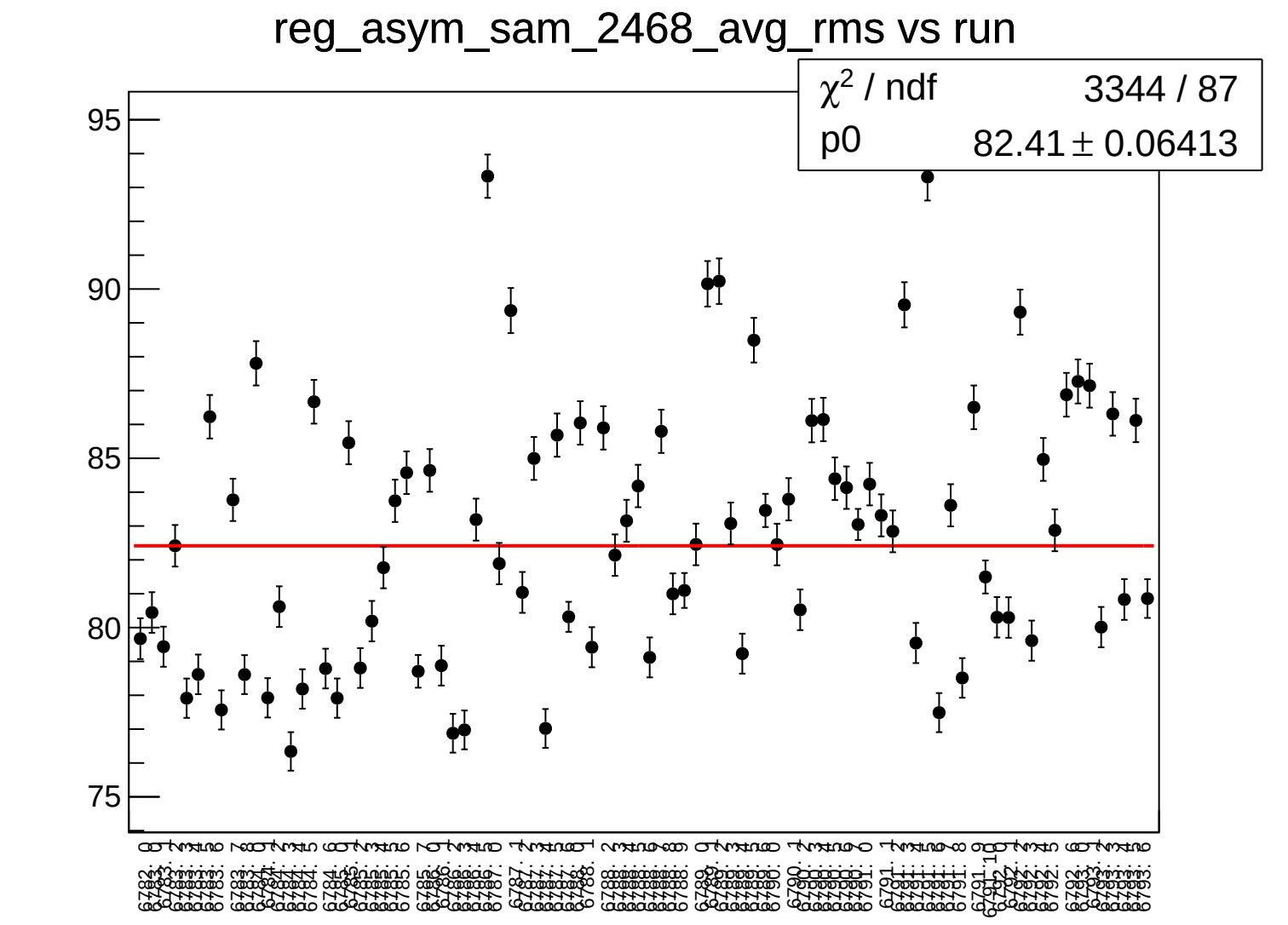

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.5 / 87
p0 6.495e−15 ± 1.068e−14
pull
Entries 88
Mean −692.4
Std Dev 0

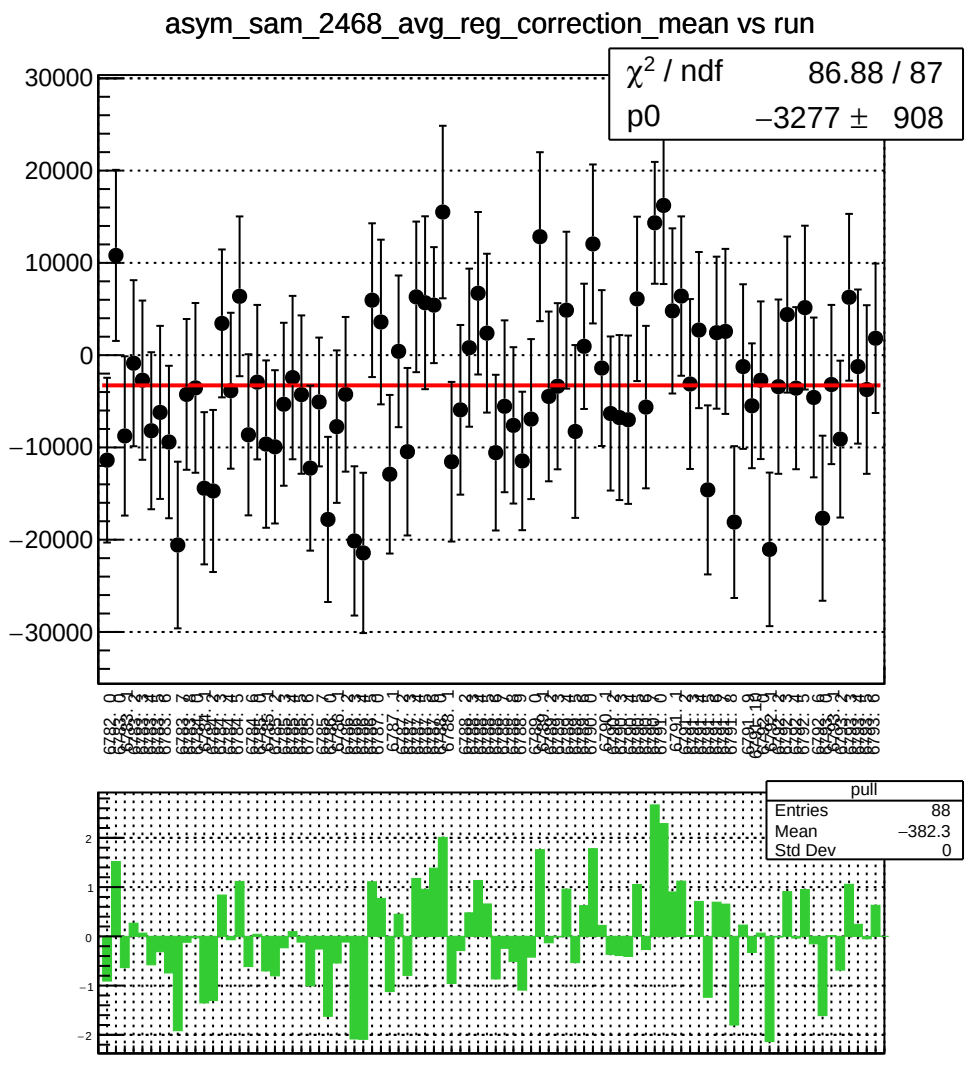

pull1D
Entries 88
Mean 0.00237
Std Dev 0.9857

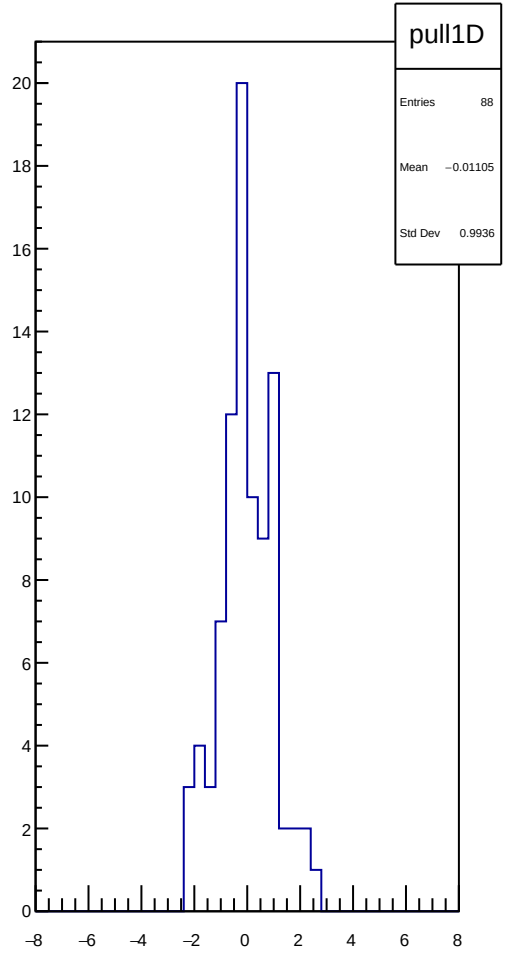

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.154e+05 / 87
p0 8.408e−12 ± 7.552e−15
35
30
25
20
15
10
5

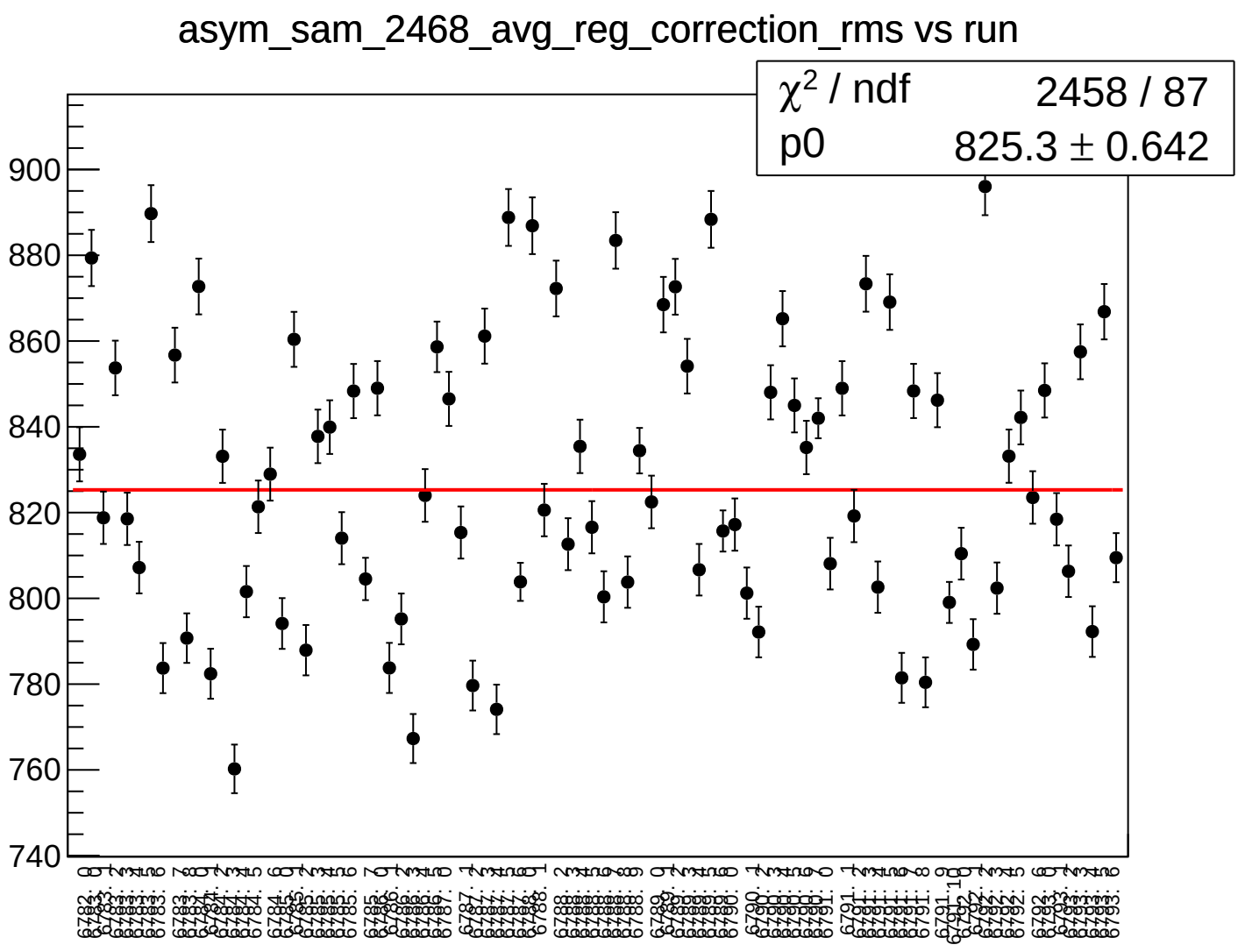

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 91.54 / 87
p0 −13.54 ± 90.69
pull
Entries 88
Mean 295.4
Std Dev 0

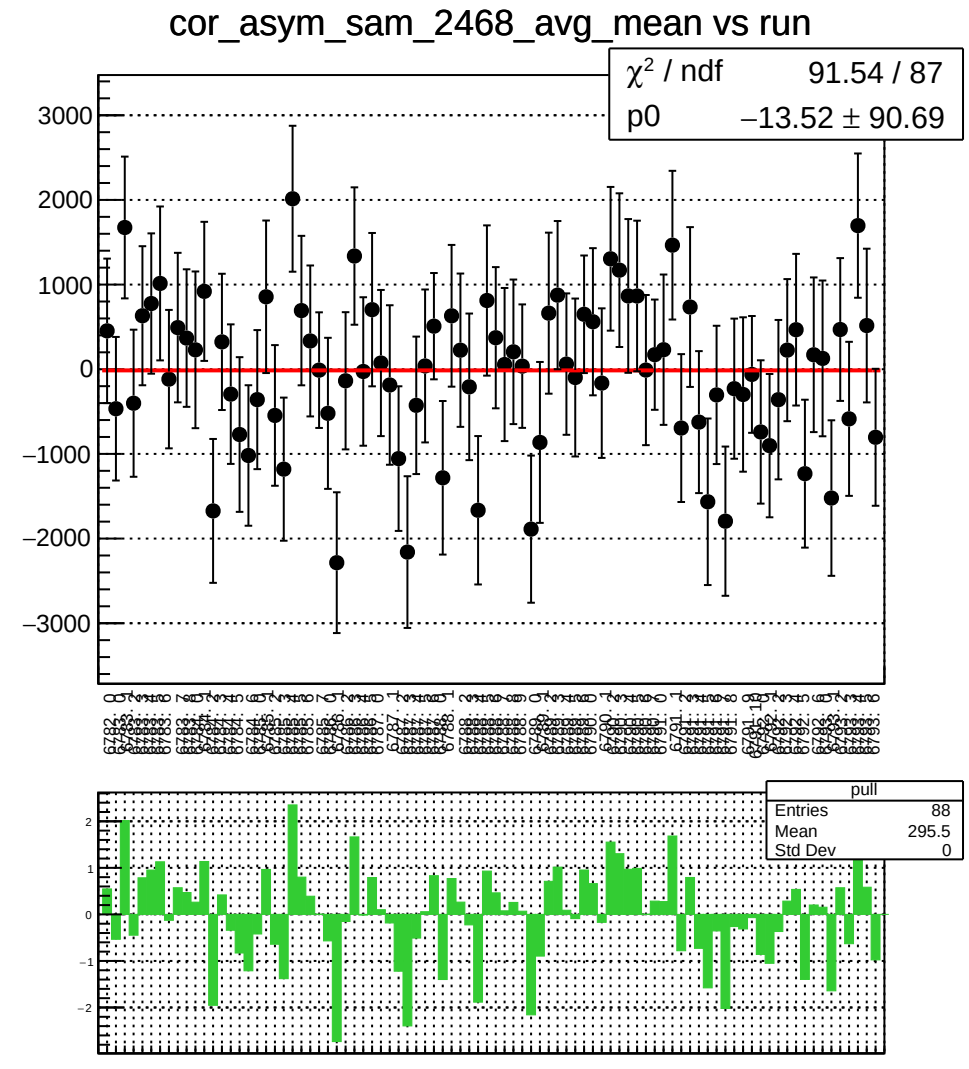

pull1D
Entries 88
Mean −0.009104
Std Dev 1.02

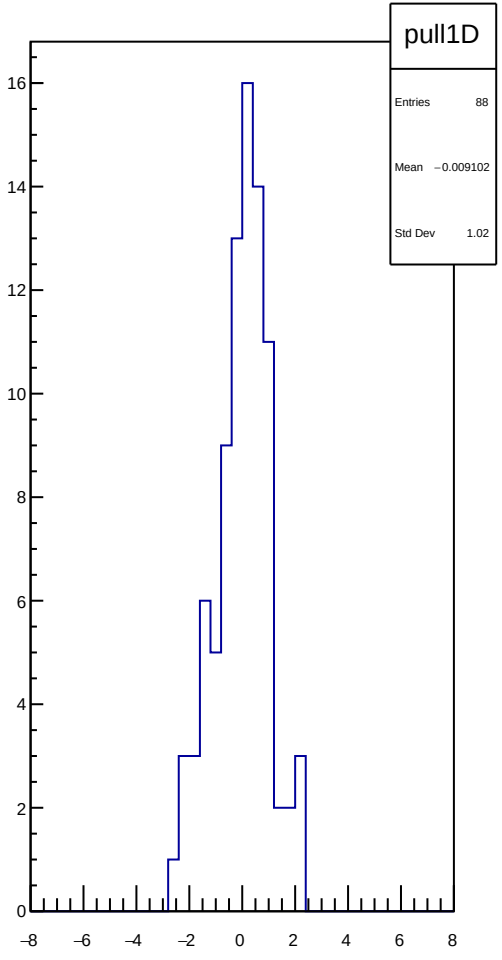

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3344 / 87
p0 82.41 ± 0.06413
95
90
85
80
75

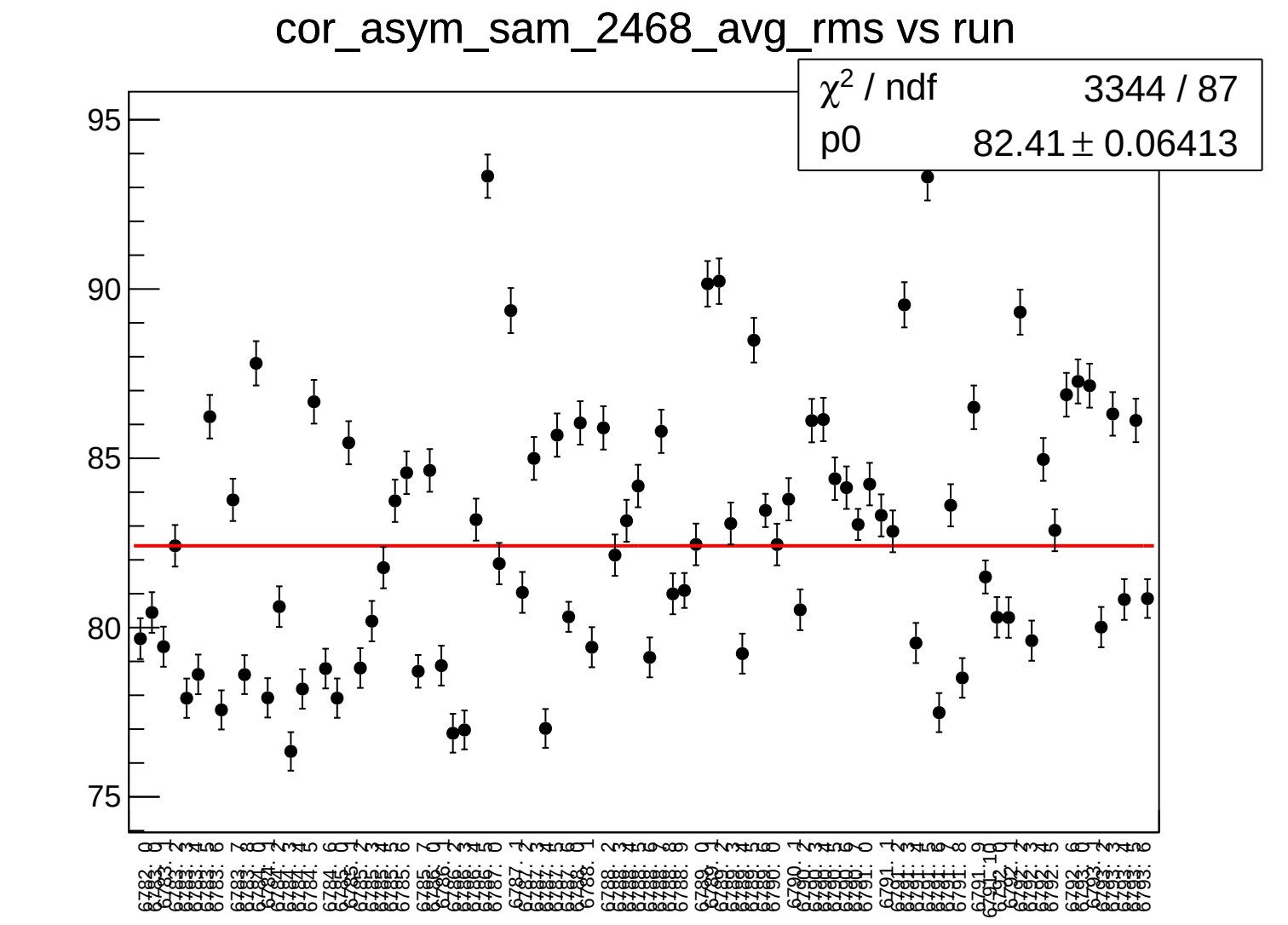

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 86.88 / 87
p0 −3277 ± 908
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −382.3
Std Dev 0
2
1
0
−1
−2

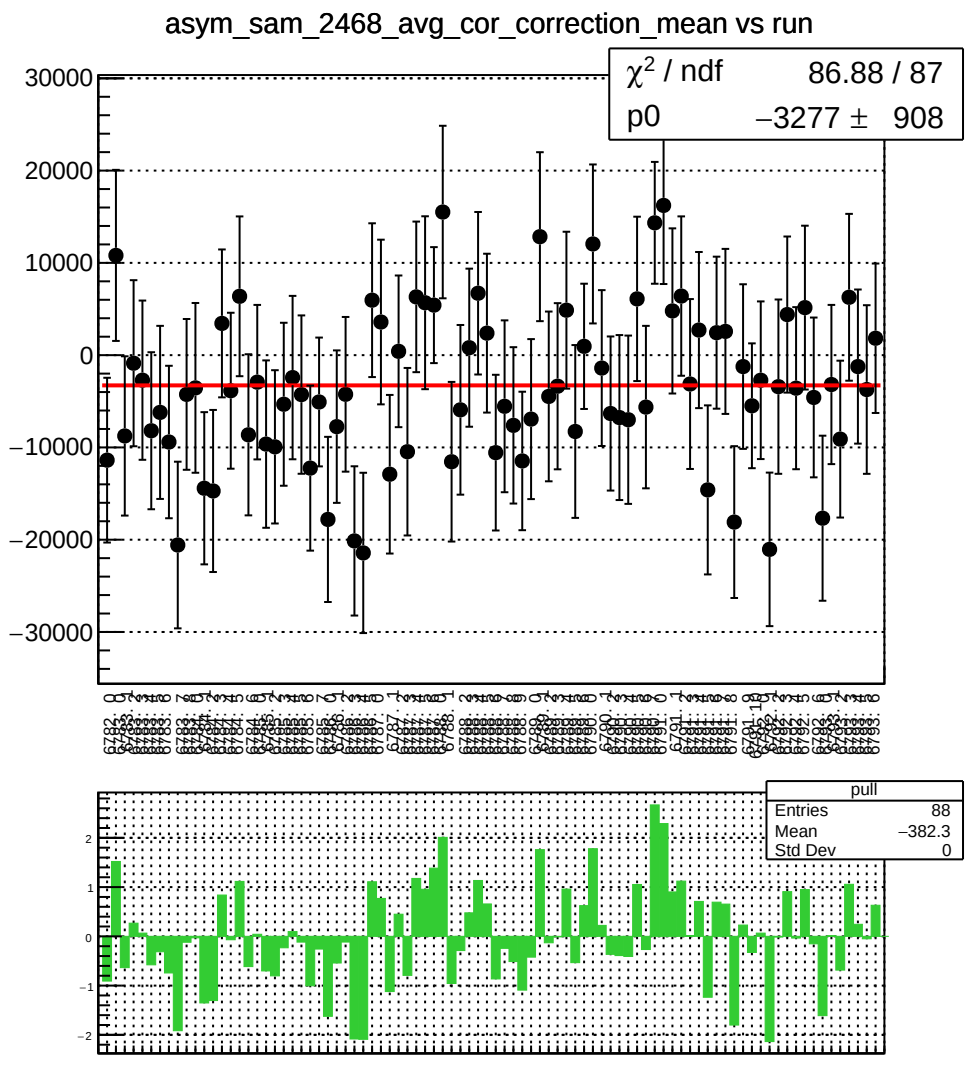

pull1D
Entries 88
Mean −0.01105
Std Dev 0.9936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

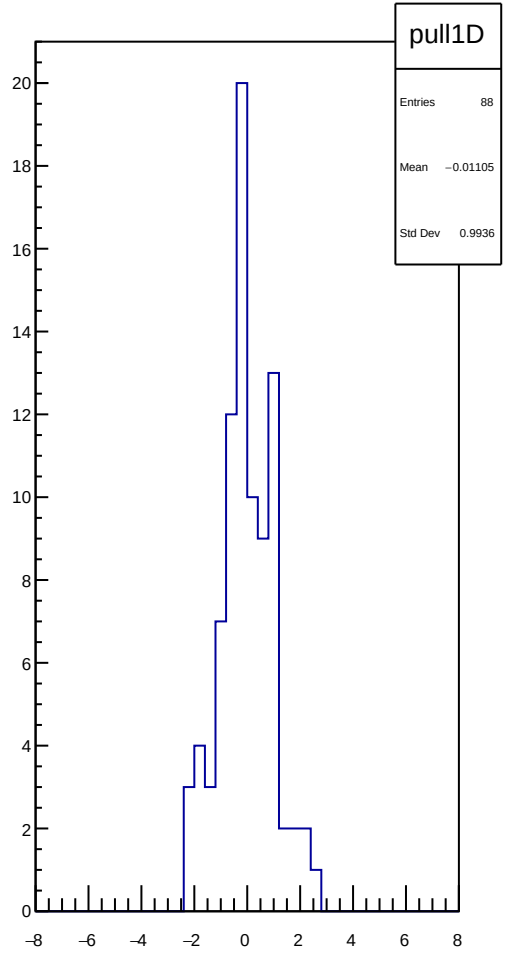

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2458 / 87
p0 825.3 ± 0.642
900
880
860
840
820
800
780
760
740

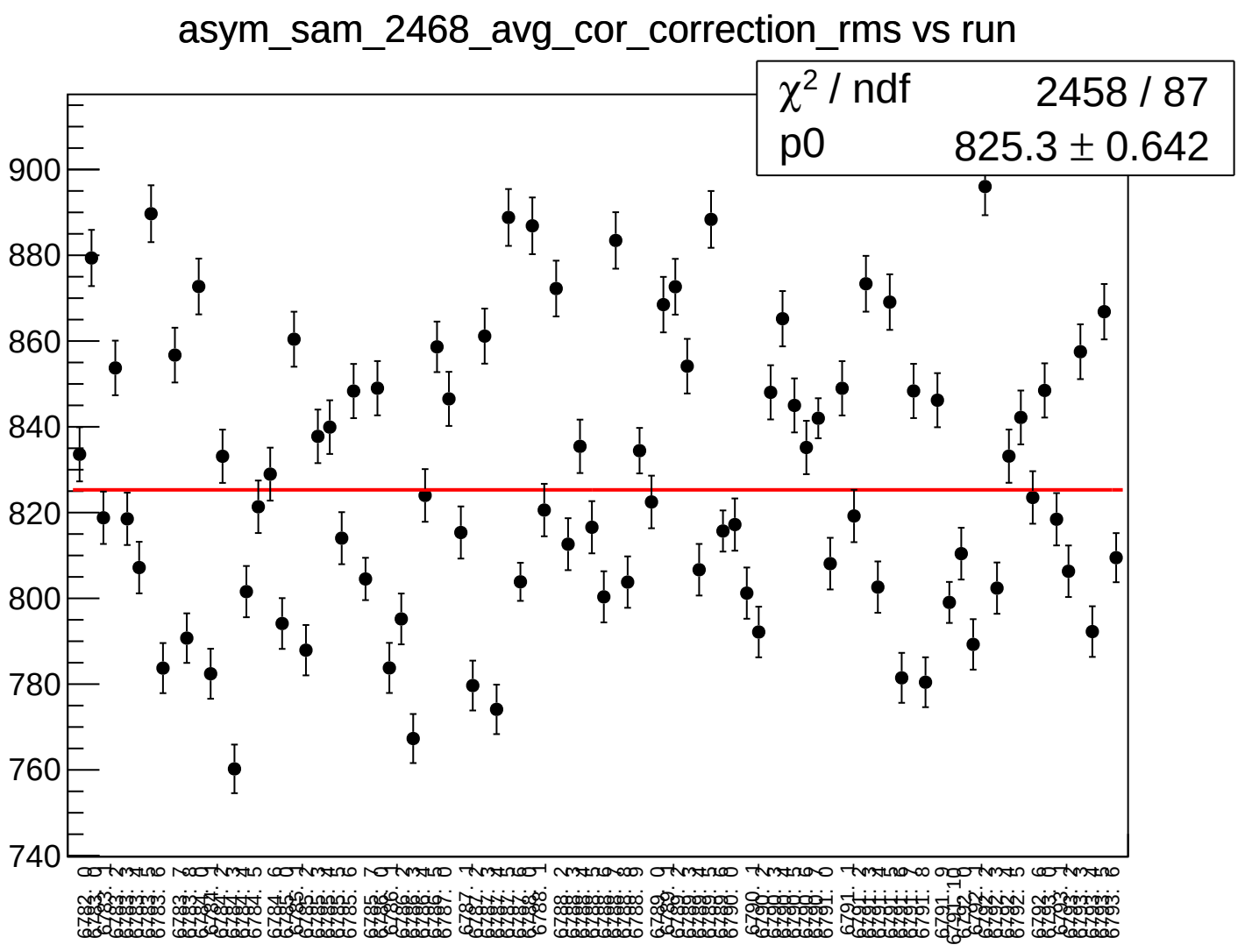

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 91.54 / 87
p0 −13.52 ± 90.69
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 295.5
Std Dev 0
2
1
0
−1
−2

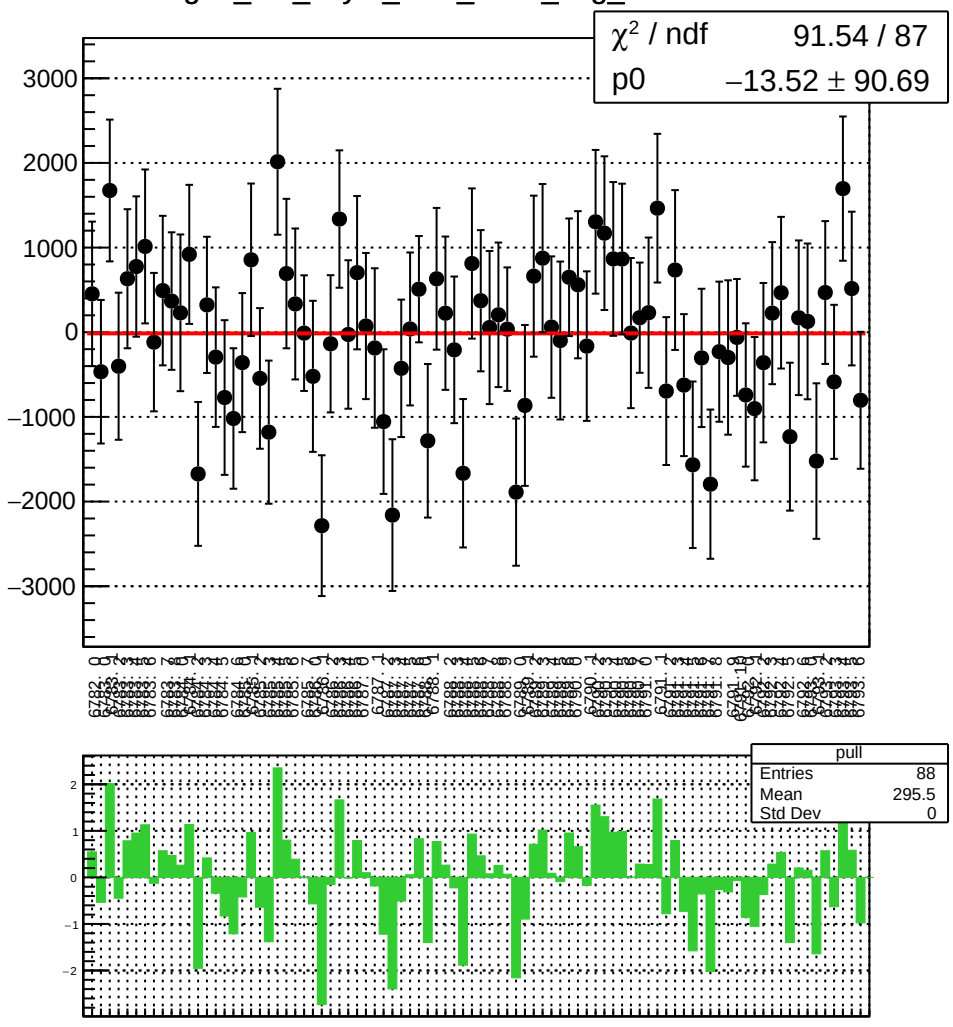

pull1D
Entries 88
Mean −0.009102
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

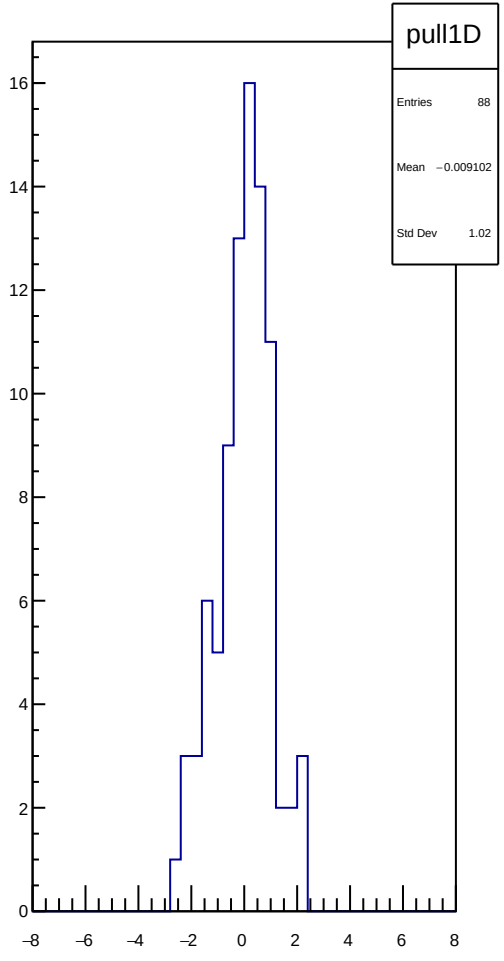

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3344 / 87
p0 82.41 ± 0.06413
95
90
85
80
75

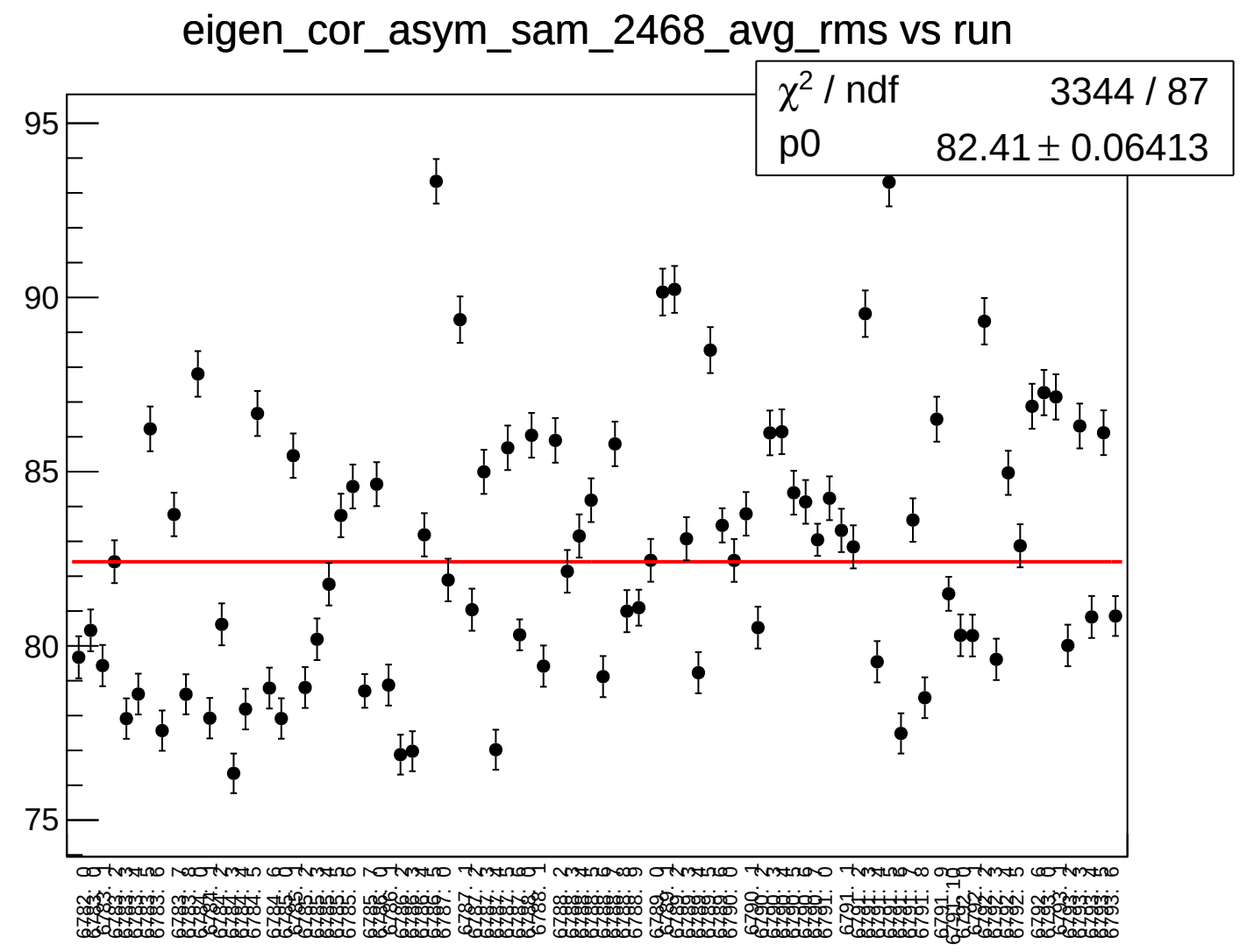

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 86.88 / 87
p0 −3277 ± 908
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −382.3
Std Dev 0
2
1
0
−1
−2

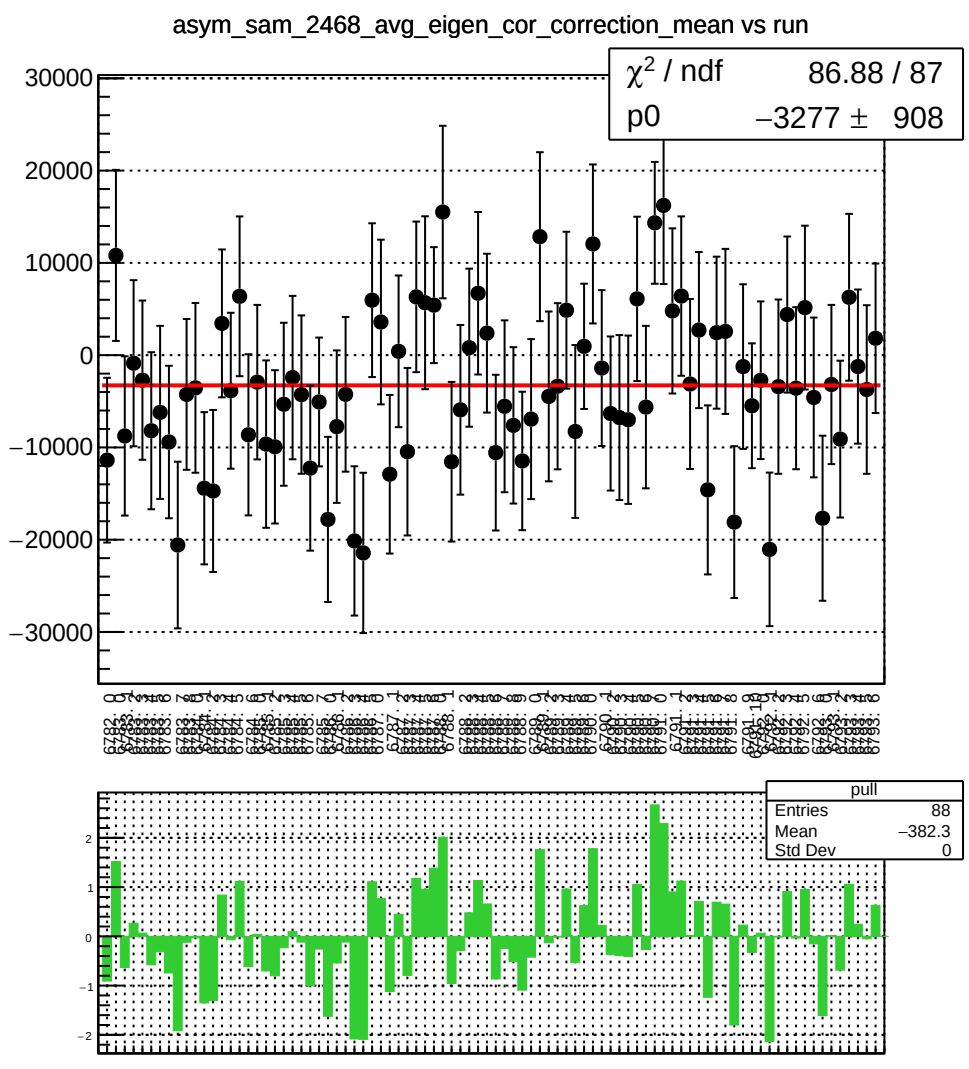

pull1D
Entries 88
Mean −0.01105
Std Dev 0.9936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

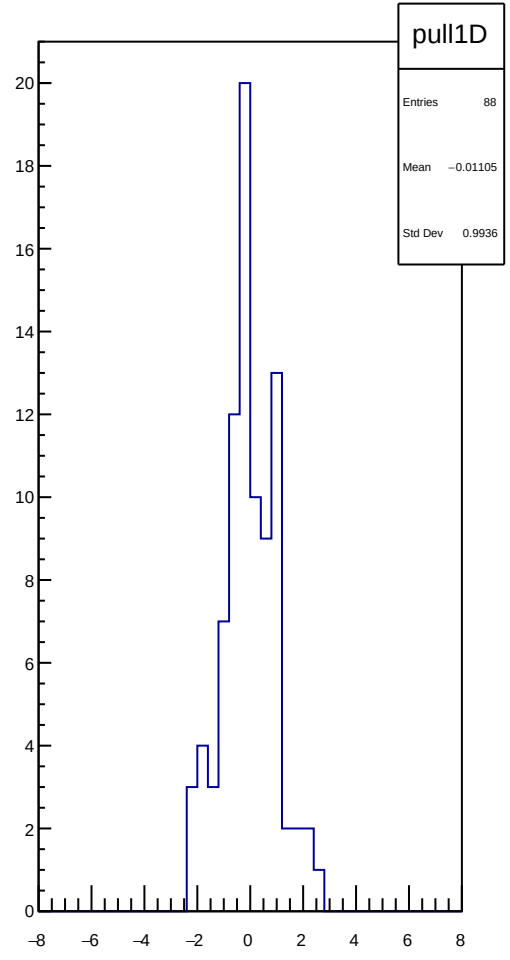

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2458 / 87
p0 825.3 ± 0.642
900
880
860
840
820
800
780
760
740

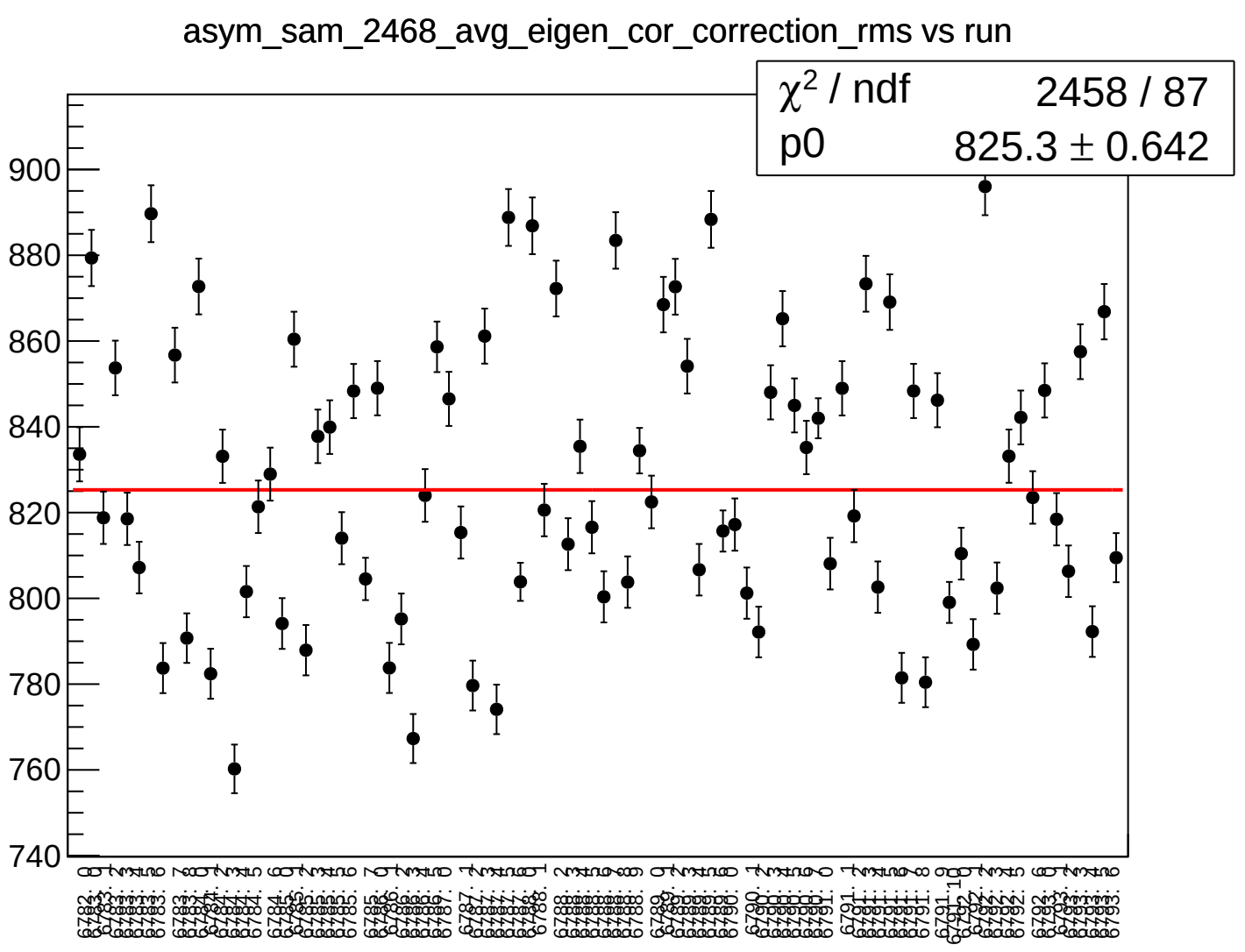

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 91.54 / 87
p0 −13.52 ± 90.69
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 295.5
Std Dev 0
2
1
0
−1
−2

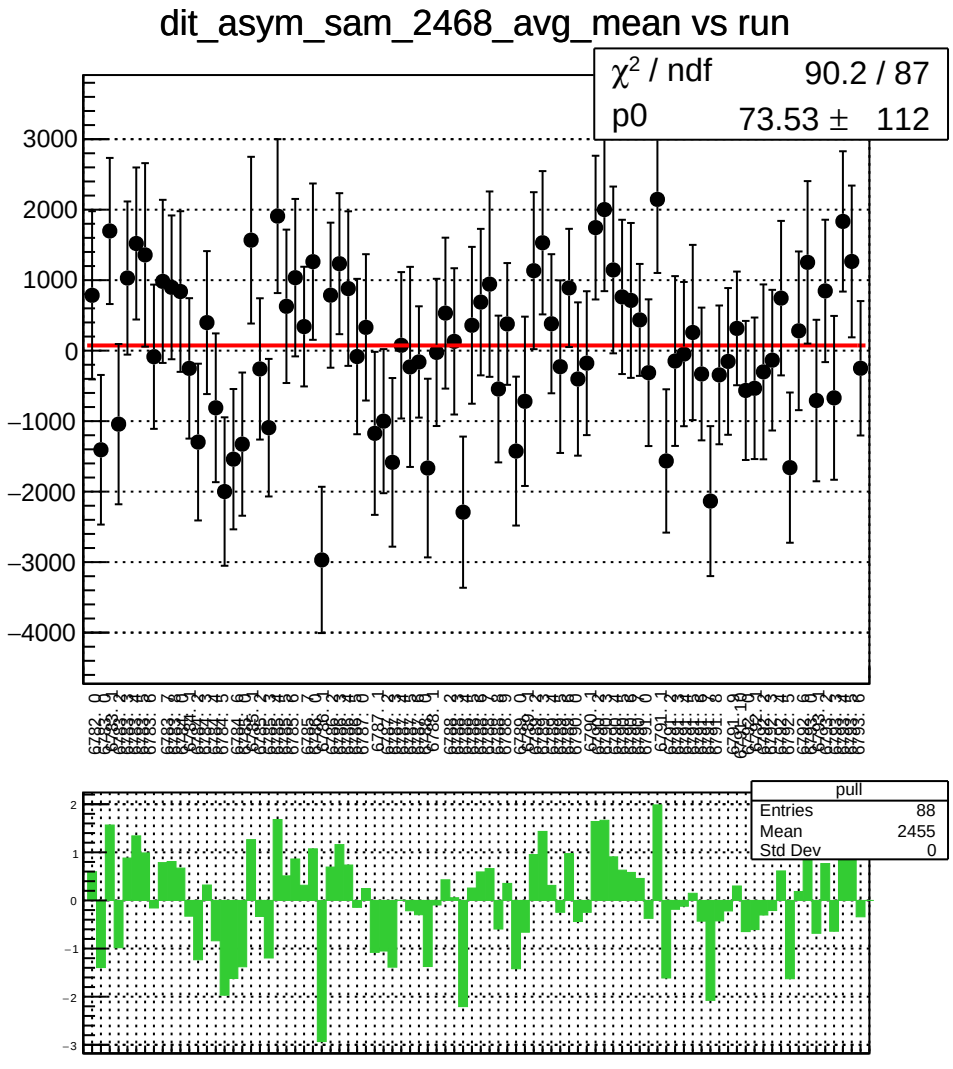

pull1D
Entries 88
Mean −0.009102
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

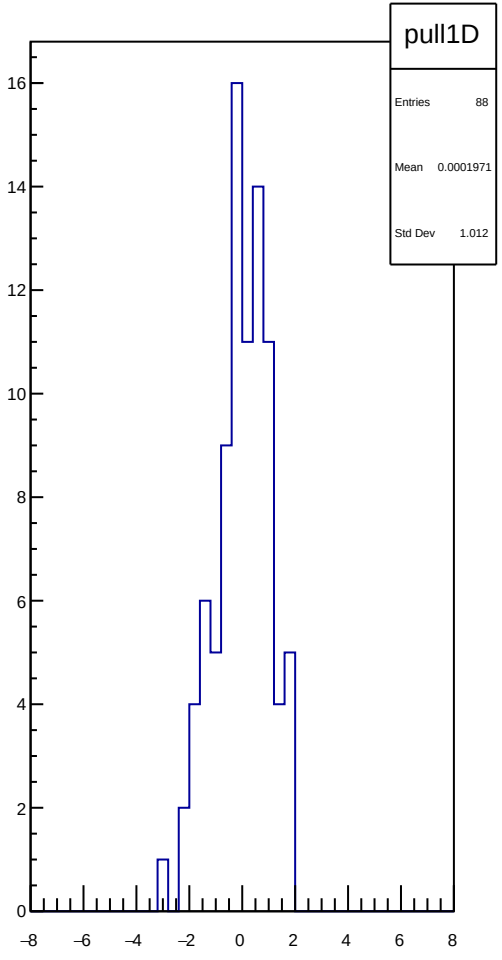

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3344 / 87
p0 82.41 ± 0.06413
95
90
85
80
75

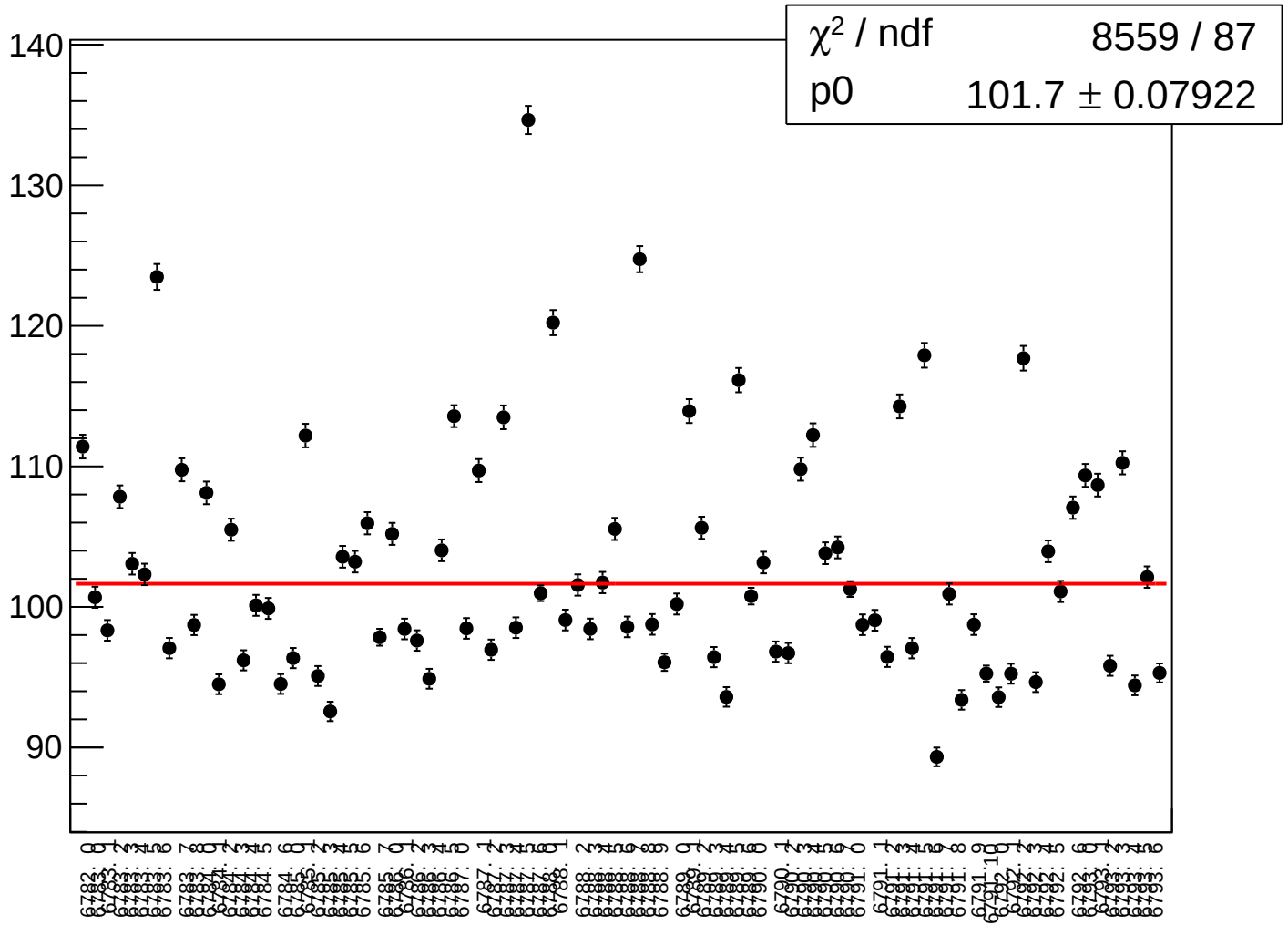

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.88 / 87
p0 −3277 ± 908
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −382.3
Std Dev 0
2
1
0
−1
−2

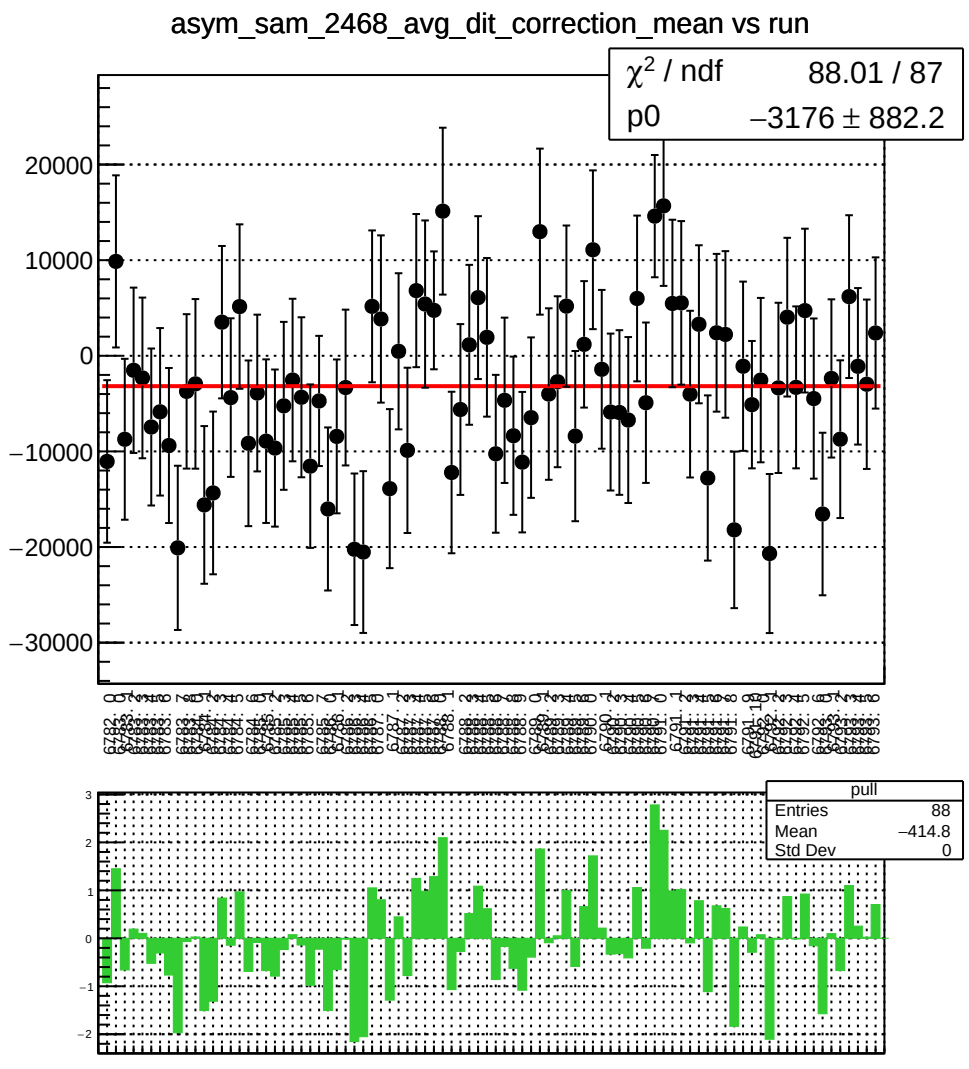

pull1D
Entries 88
Mean −0.01105
Std Dev 0.9936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

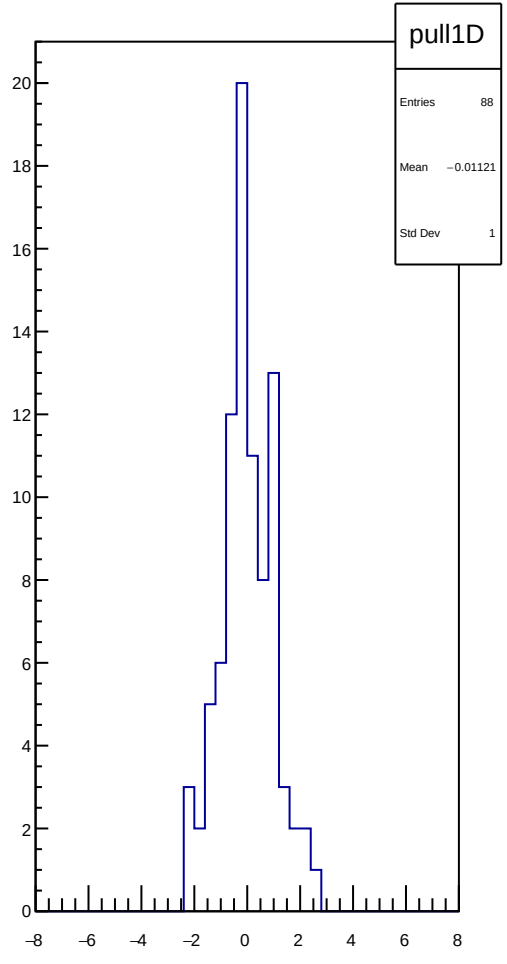

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2458 / 87
p0 825.3 ± 0.642
900
880
860
840
820
800
780
760
740

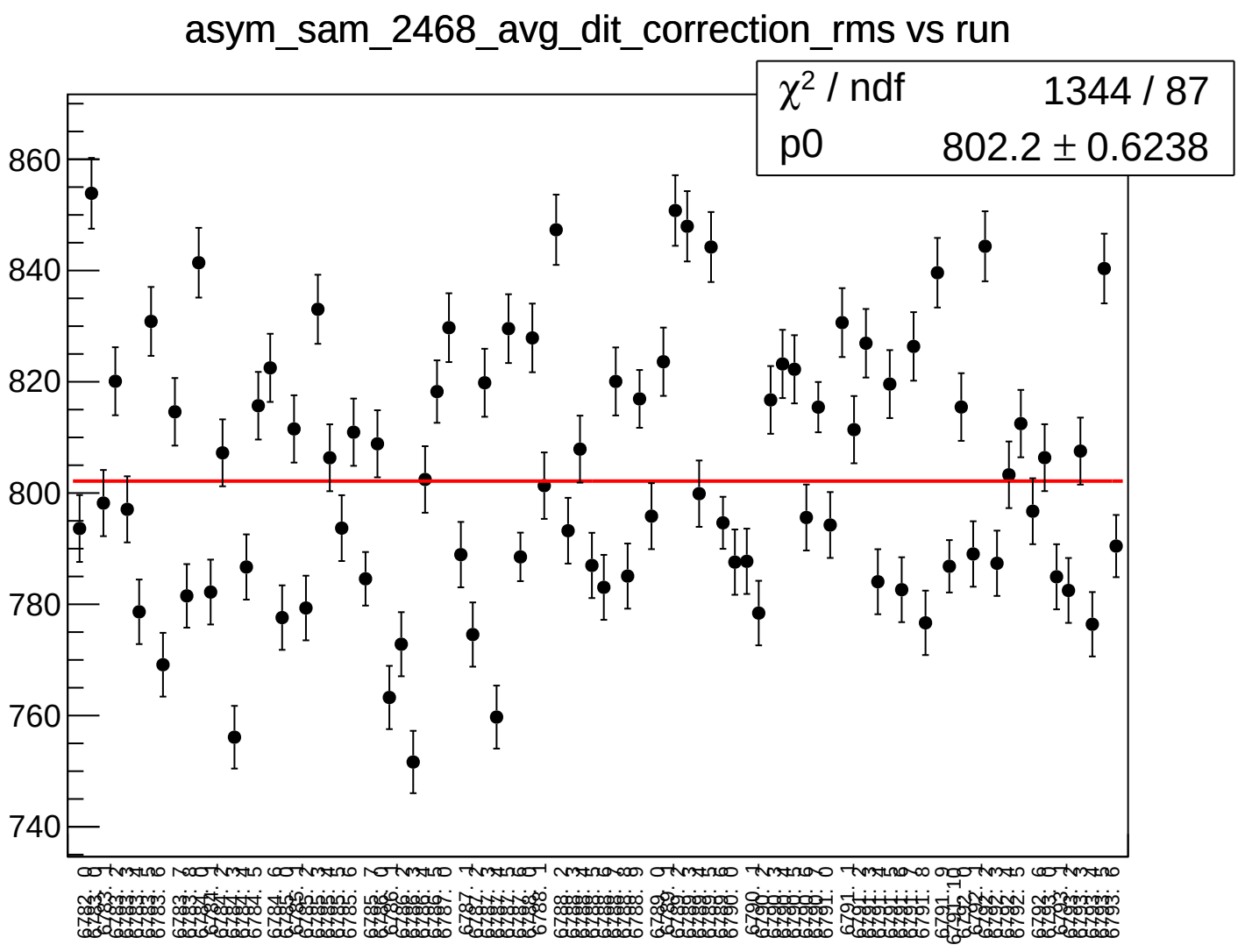

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 90.2 / 87
p0 73.53 ± 112
pull
Entries 88
Mean 2455
Std Dev 0

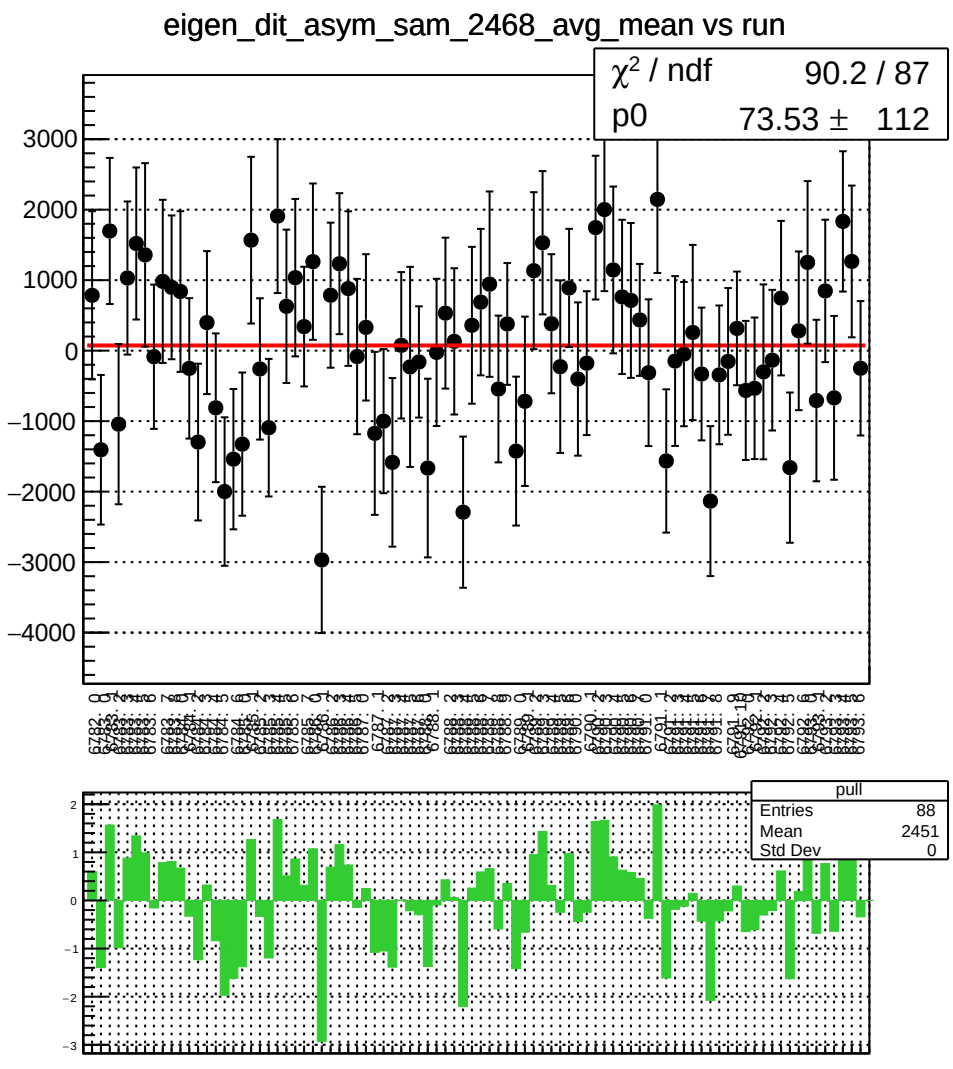

pull1D
Entries 88
Mean 0.0001971
Std Dev 1.012

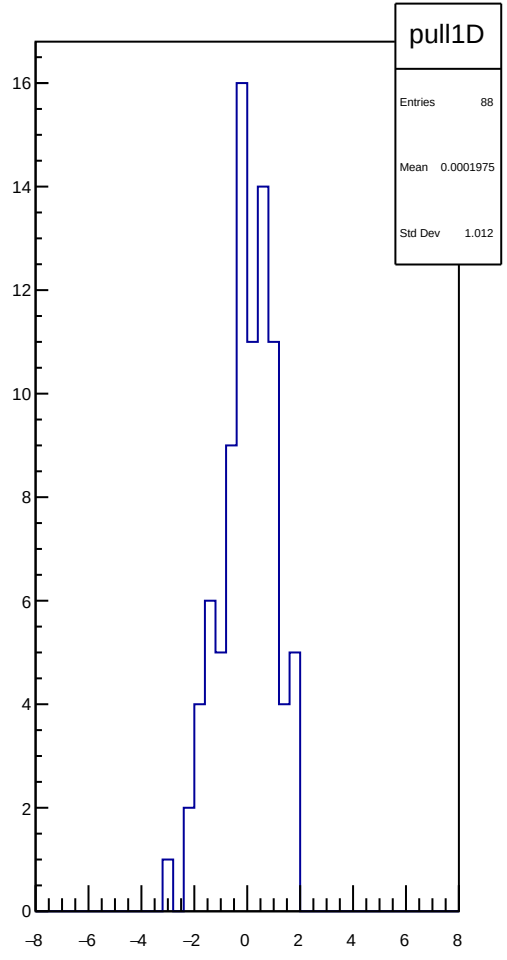

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 8559 / 87
p0 101.7 ± 0.07922
140
130
120
110
100
90

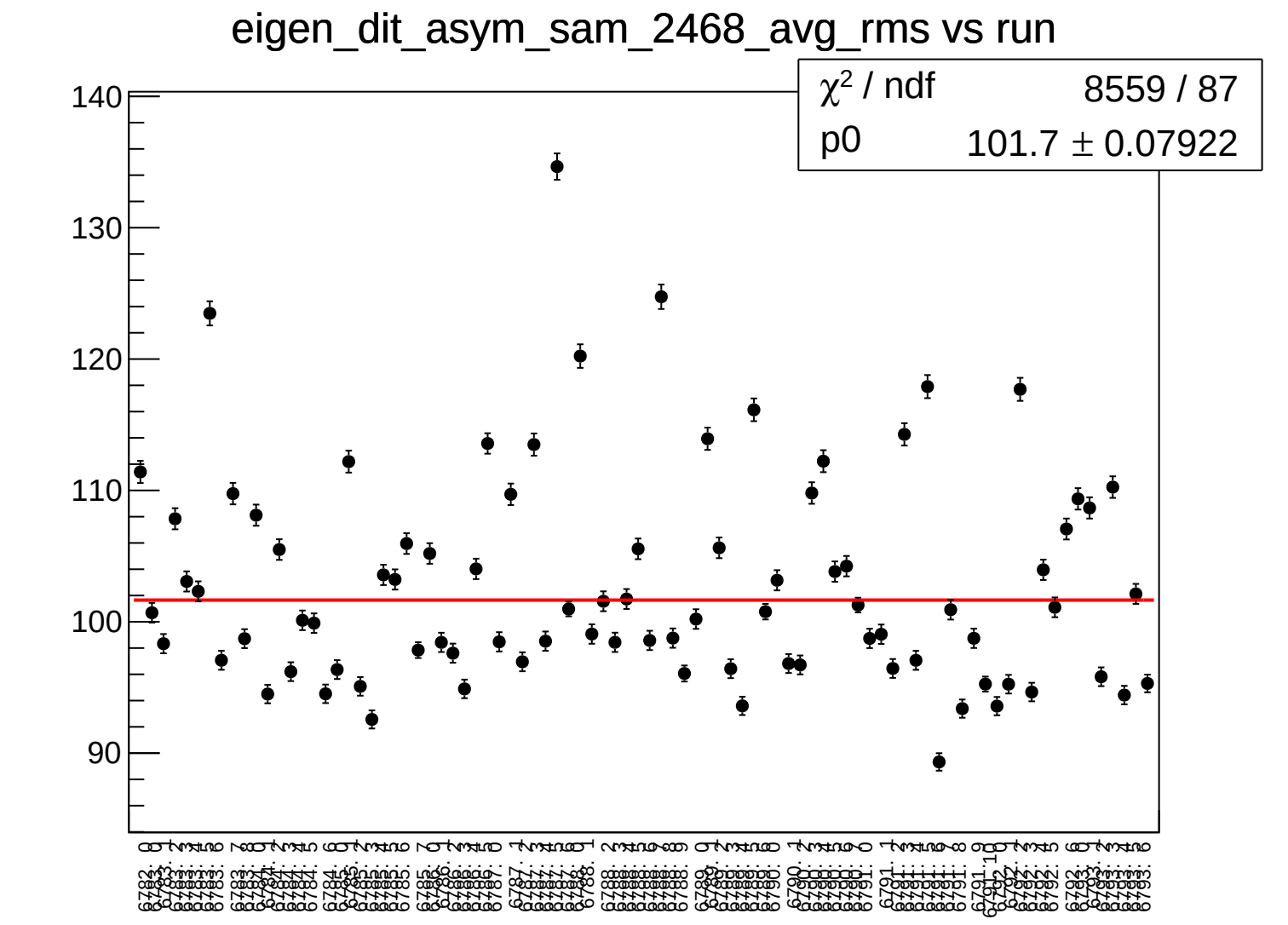

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 88.01 / 87
p0 −3176 ± 882.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −414.8
Std Dev 0
3
2
1
0
−1
−2

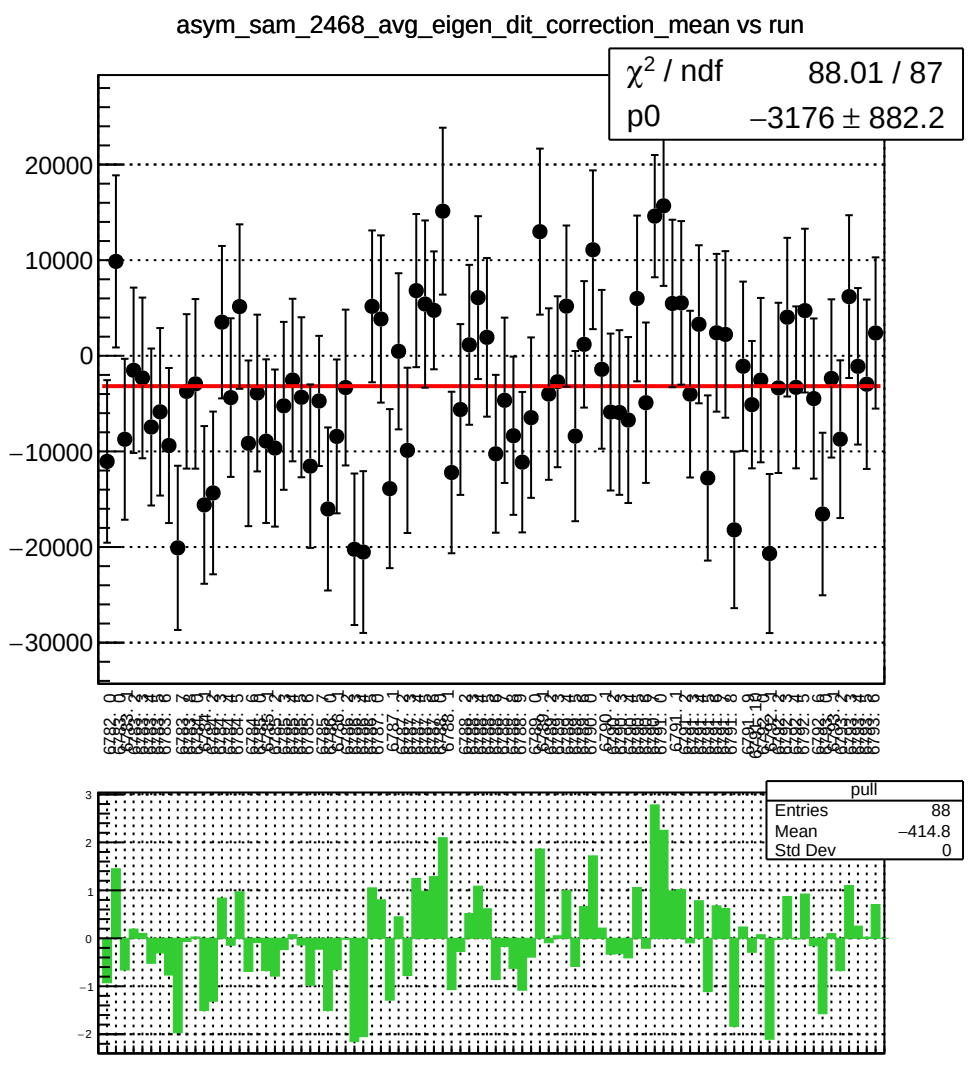

pull1D
Entries 88
Mean −0.01121
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

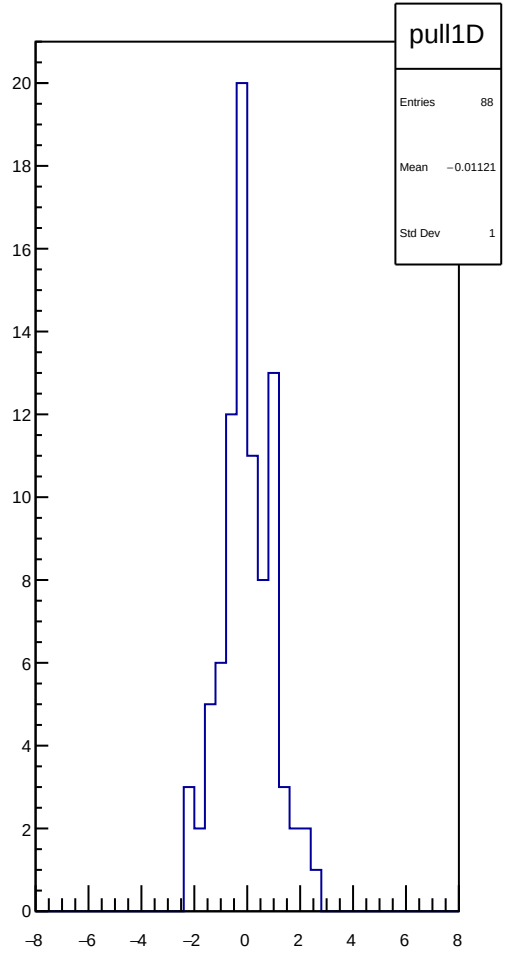

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1344 / 87
p0 802.2 ± 0.6238
860
840
820
800
780
760
740

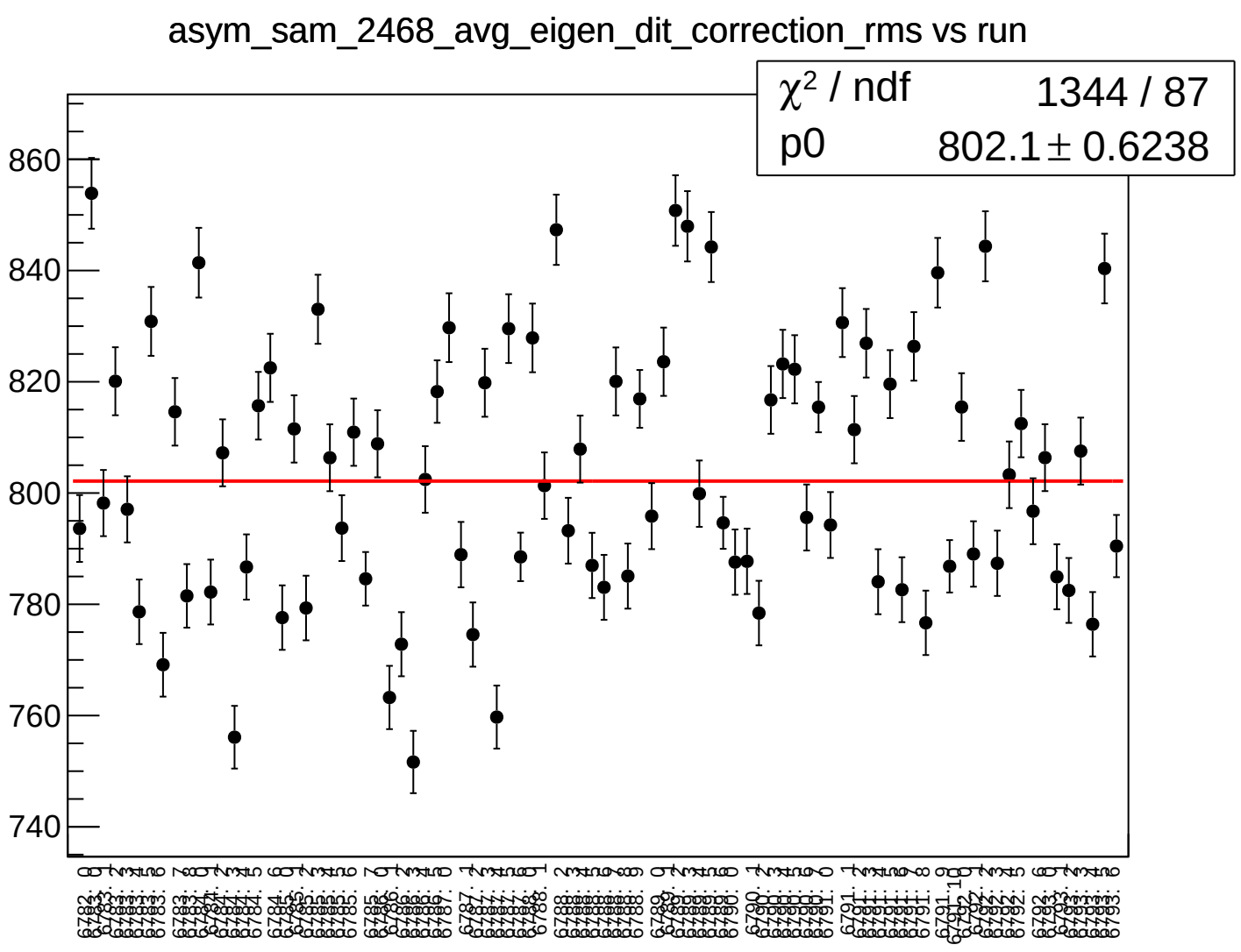

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 90.2 / 87
p0 73.53 ± 112
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 2451
Std Dev 0
2
1
0
−1
−2
−3

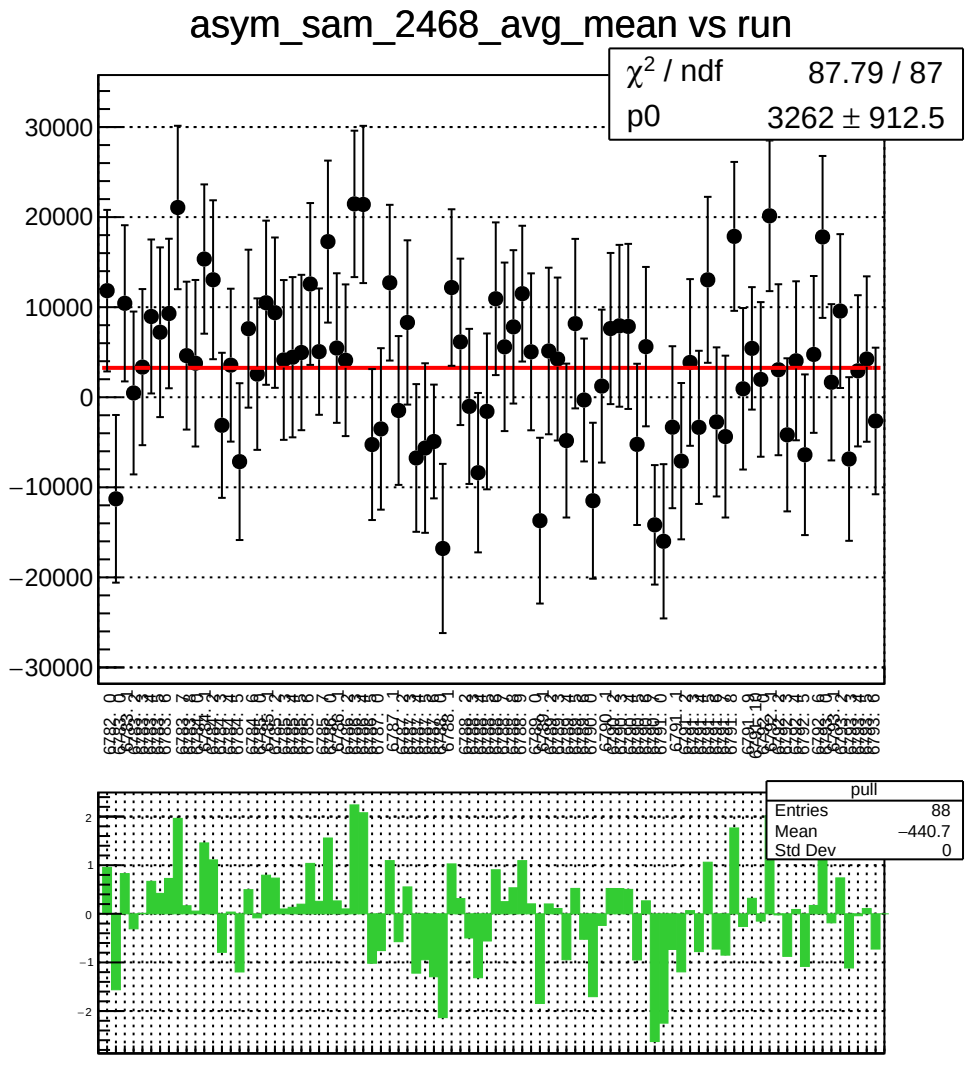

pull1D
Entries 88
Mean 0.0001975
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

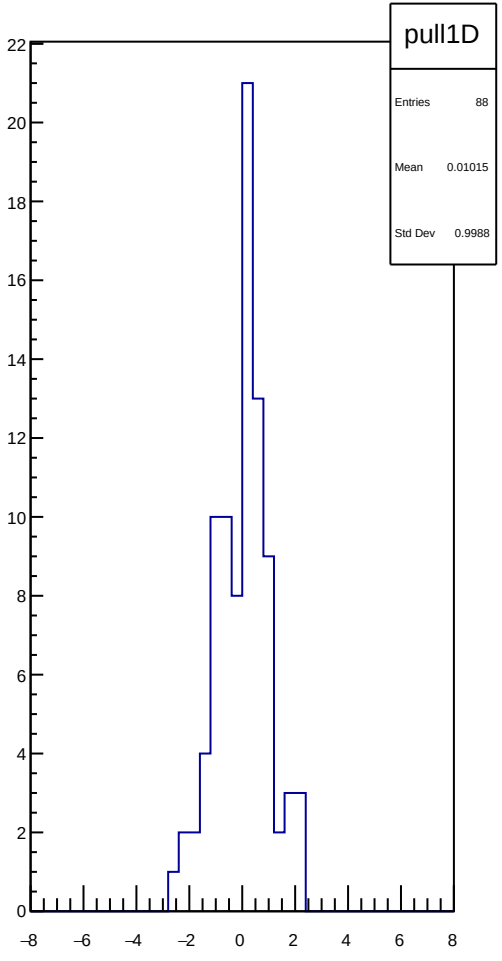

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 8559 / 87
p0 101.7 ± 0.07922
140
130
120
110
100
90

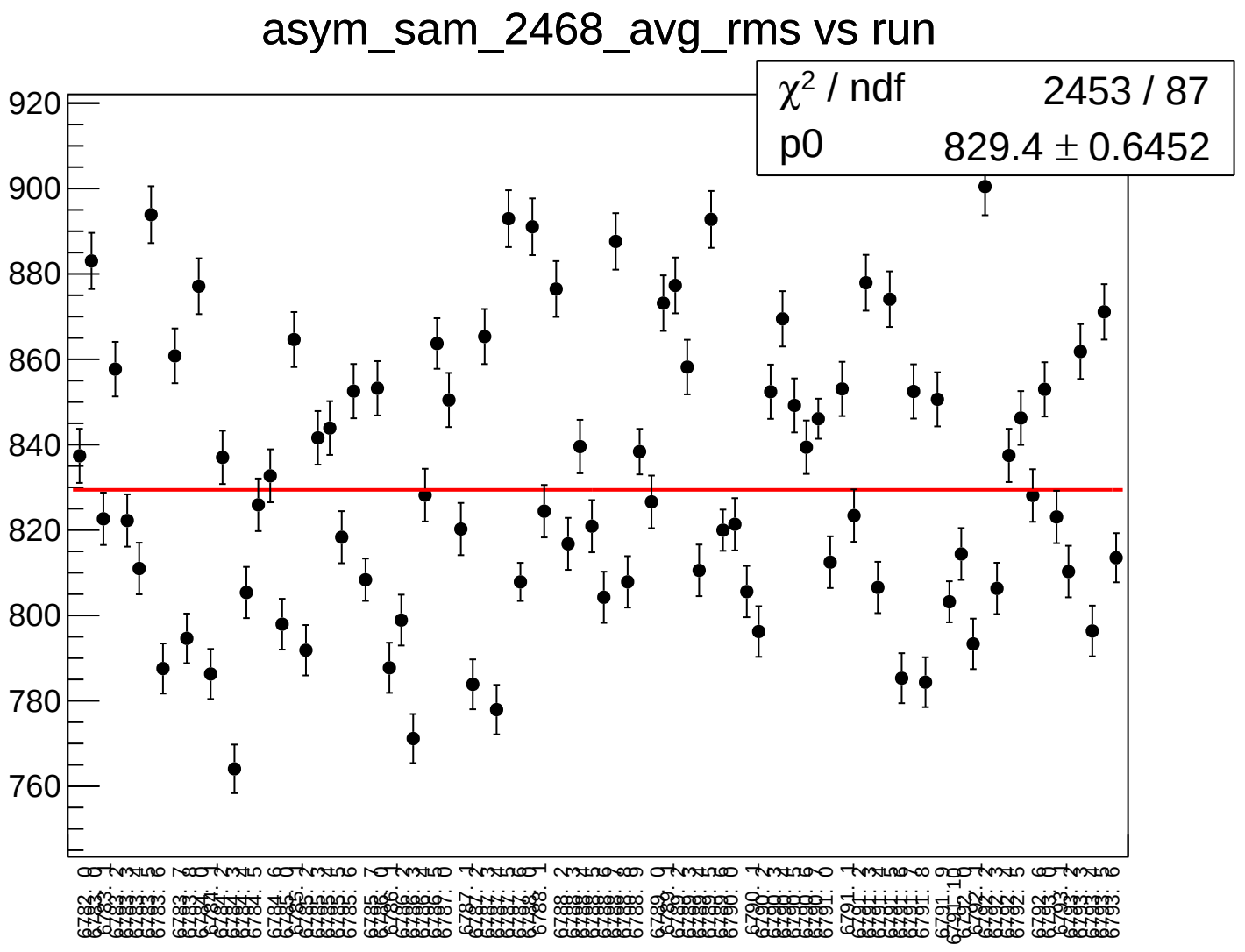

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.01 / 87
p0 −3176 ± 882.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −414.8
Std Dev 0
3
2
1
0
−1
−2

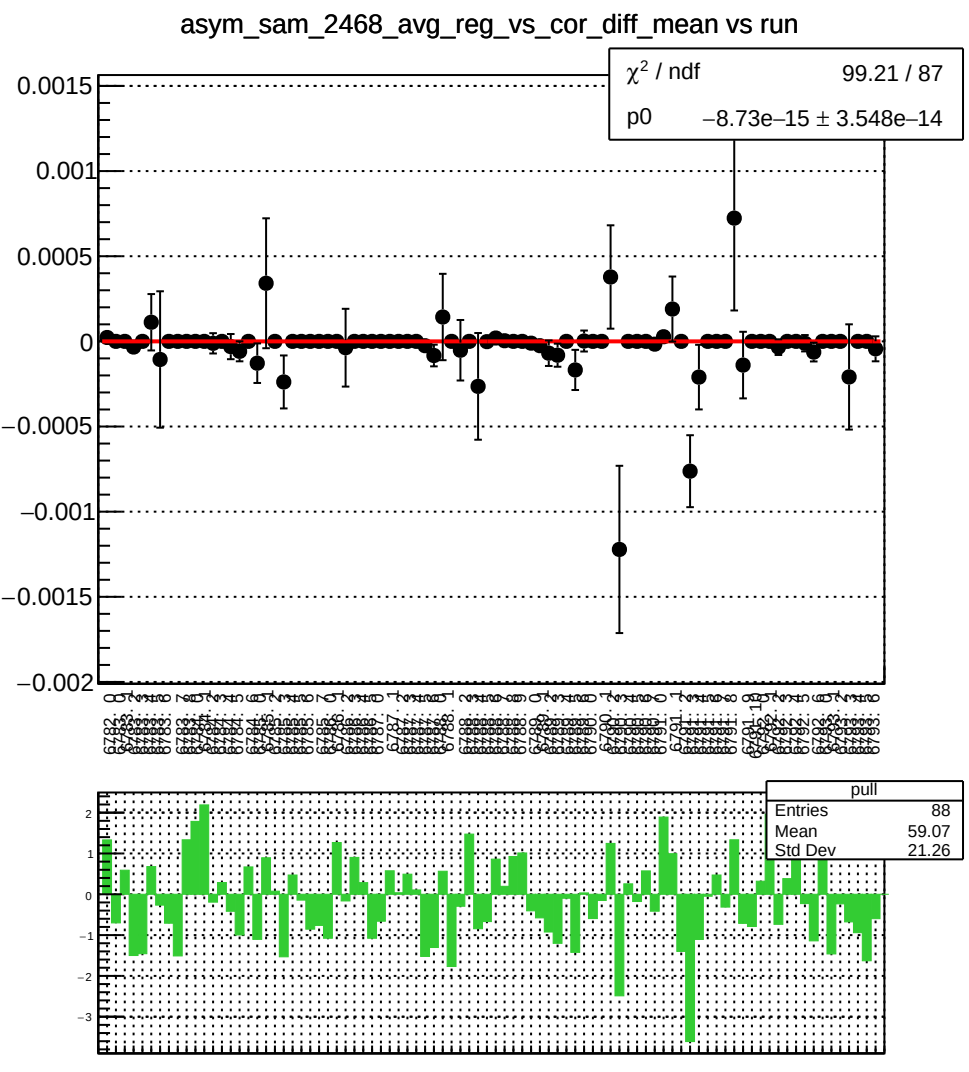

pull1D
Entries 88
Mean −0.01121
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

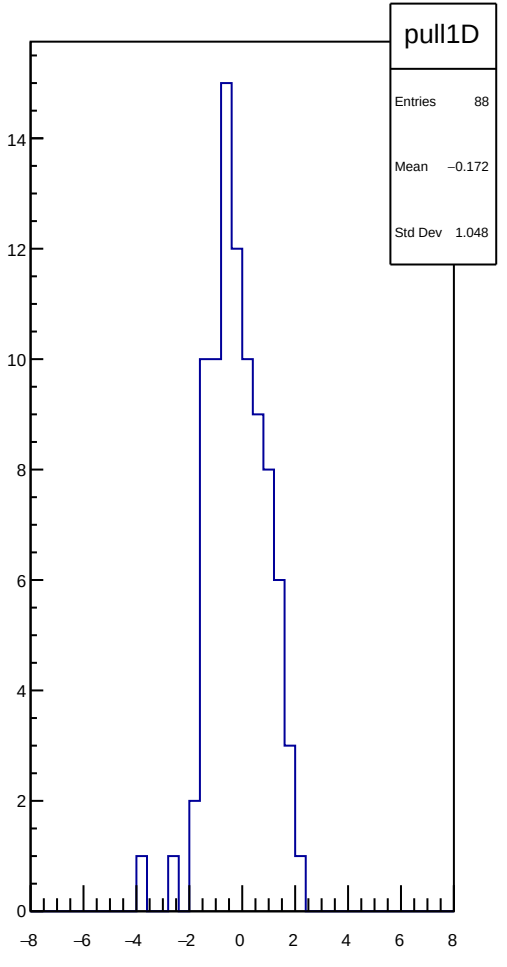

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1344 / 87
p0 802.1 ± 0.6238
860
840
820
800
780
760
740

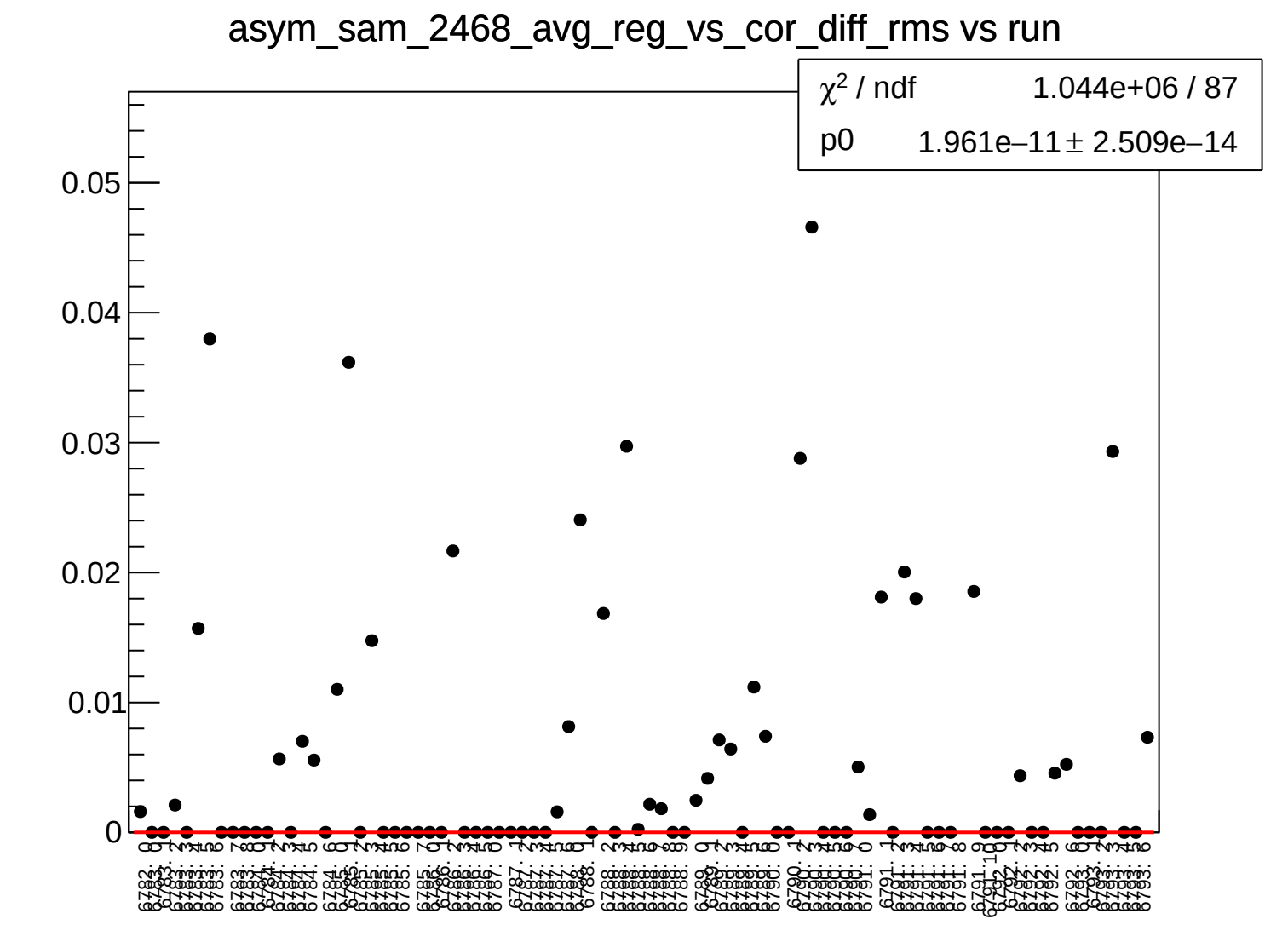

asym_sam_2468_avg_mean vs run
χ² / ndf 87.79 / 87
p0 3262 ± 912.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −440.7
Std Dev 0
2
1
0
−1
−2

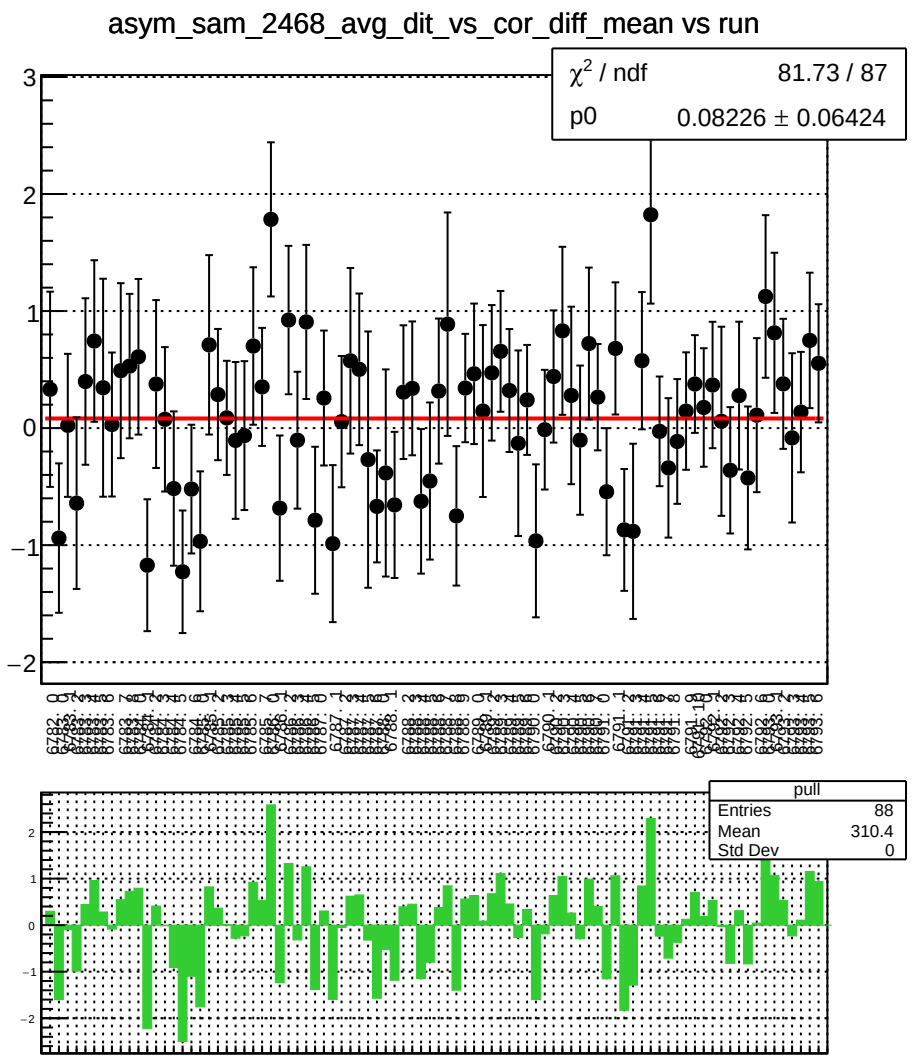

pull1D
Entries 88
Mean 0.01015
Std Dev 0.9988
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

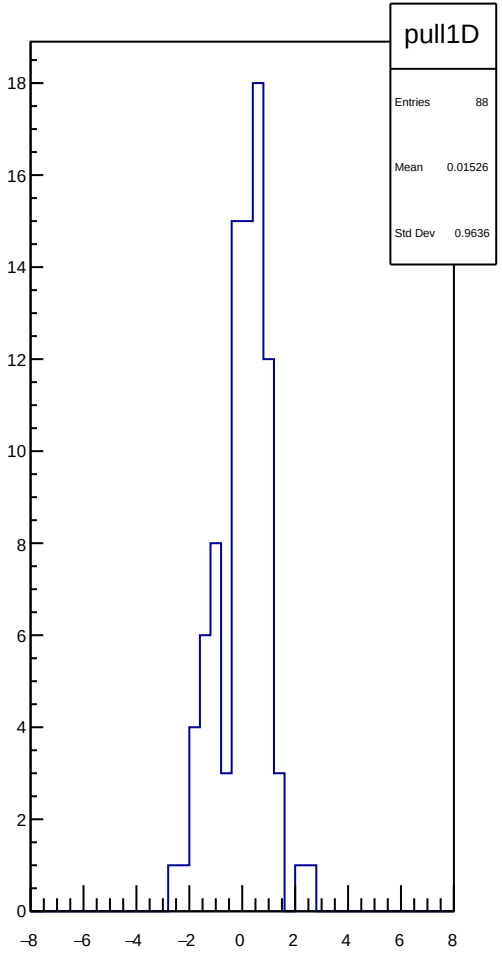

asym_sam_2468_avg_rms vs run
χ^2 / ndf 2453 / 87
p0 829.4 ± 0.6452
920
900
880
860
840
820
800
780
760

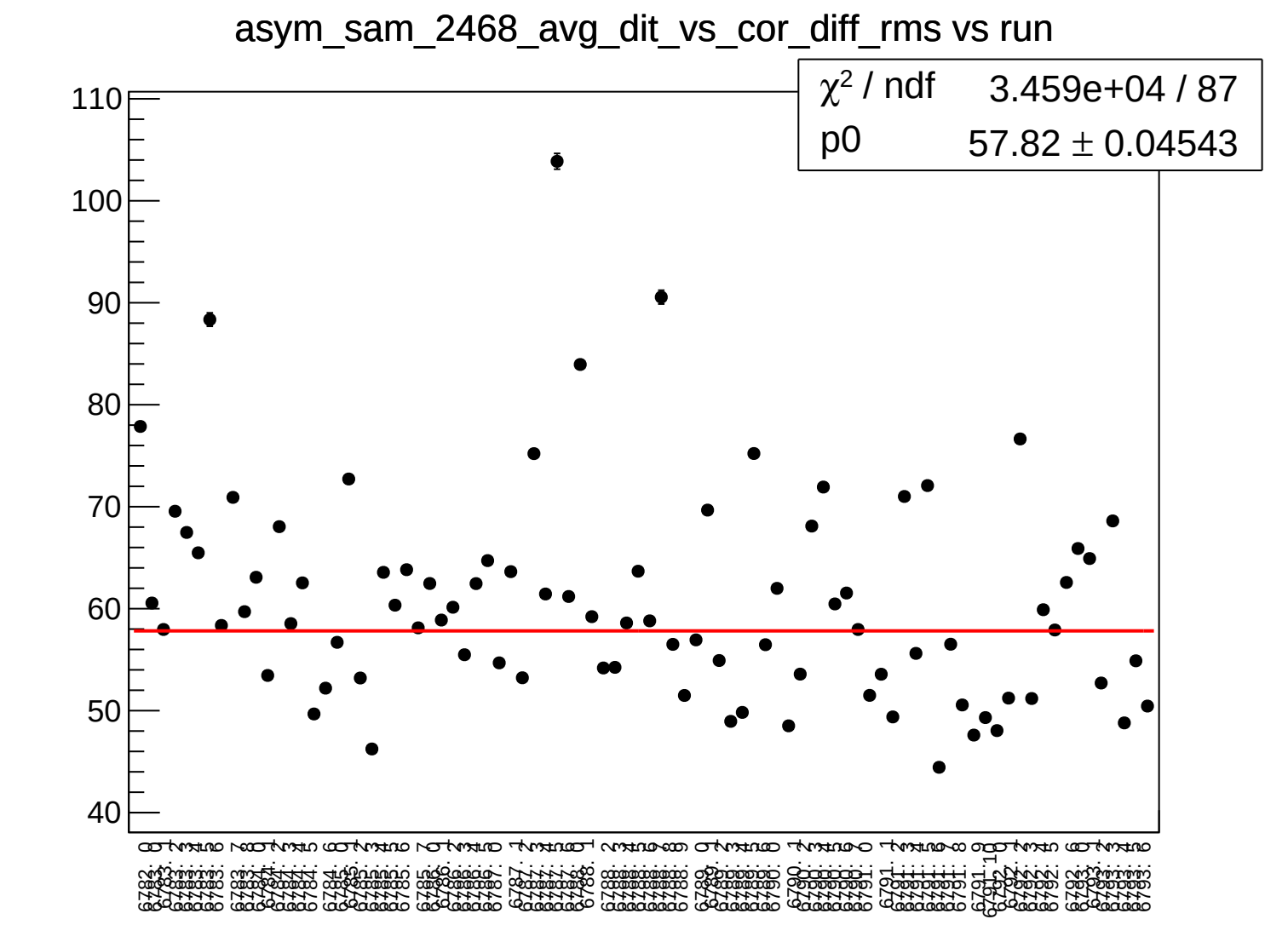

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.21 / 87
p0 −8.73e−15 ± 3.548e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean 59.07
Std Dev 21.26
2
1
0
−1
−2
−3

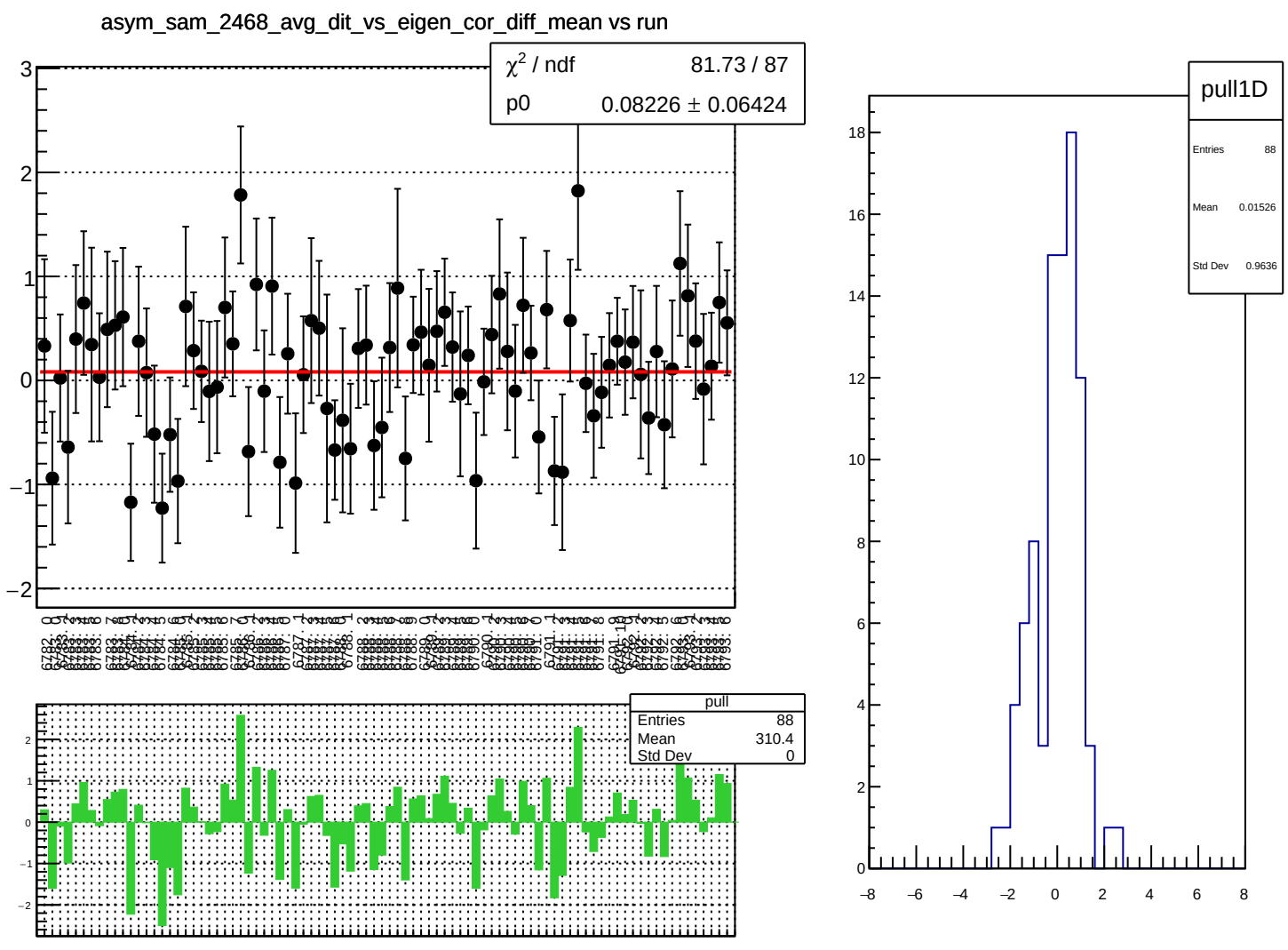

pull1D
Entries 88
Mean −0.172
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

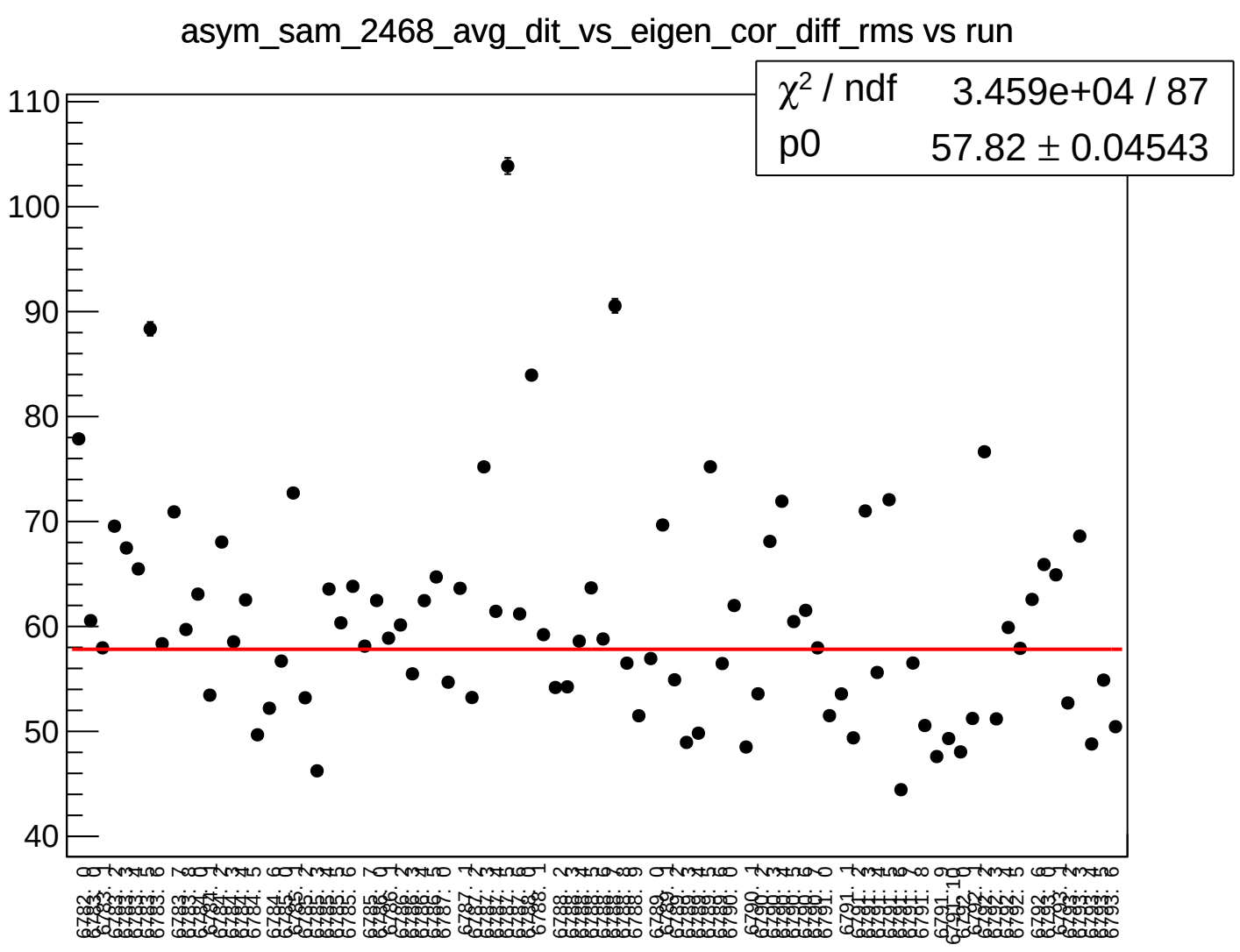

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 87
p0 1.961e−11 ± 2.509e−14
0.05
0.04
0.03
0.02
0.01
0

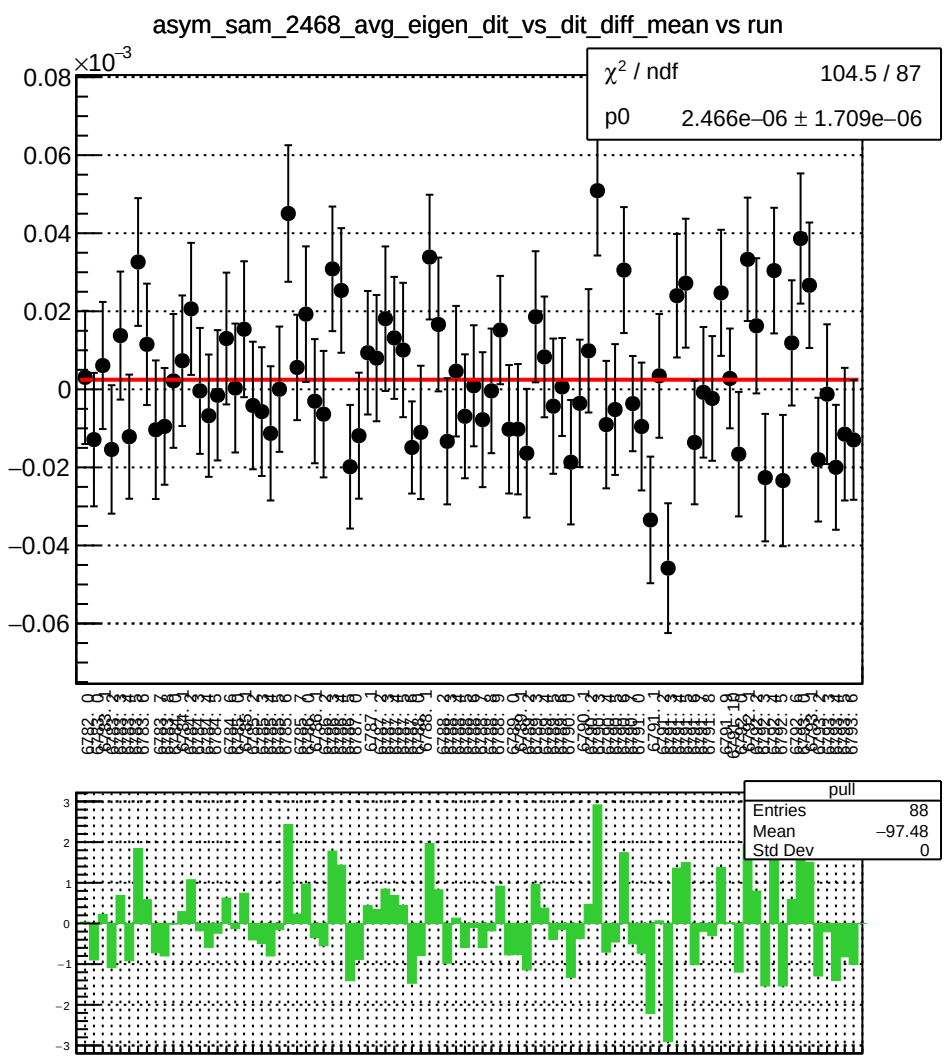

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.73 / 87
p0 0.08226 ± 0.06424
pull
Entries 88
Mean 310.4
Std Dev 0

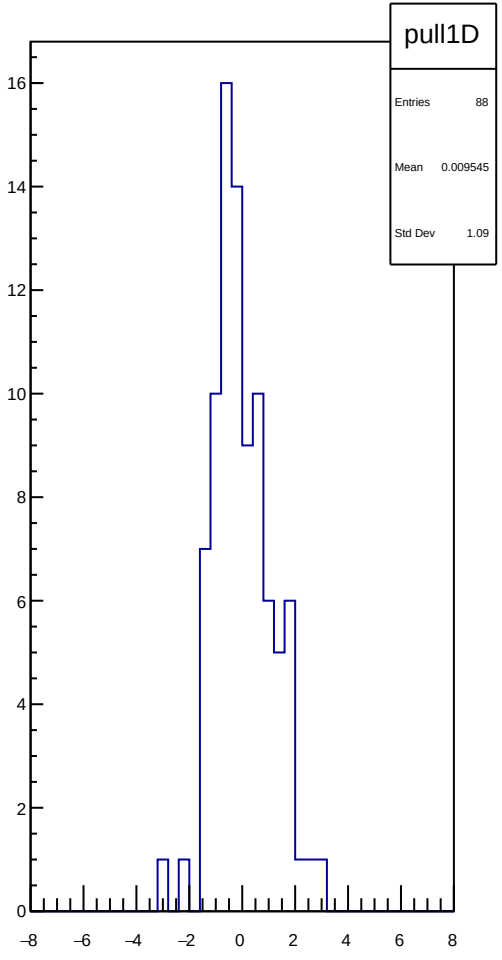

pull1D
Entries 88
Mean 0.01526
Std Dev 0.9636

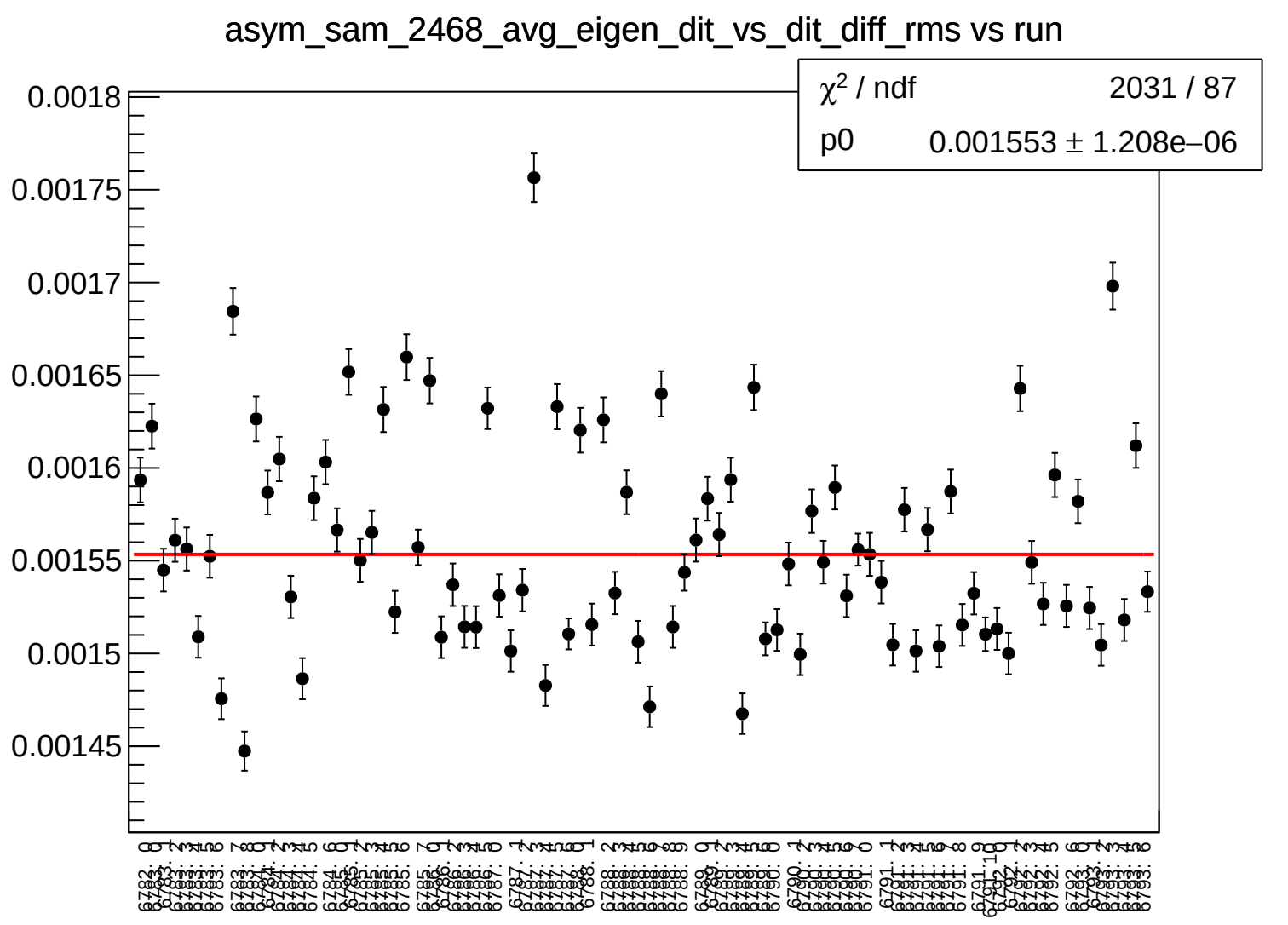

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.459e+04 / 87
p0 57.82 ± 0.04543
110
100
90
80
70
60
50
40

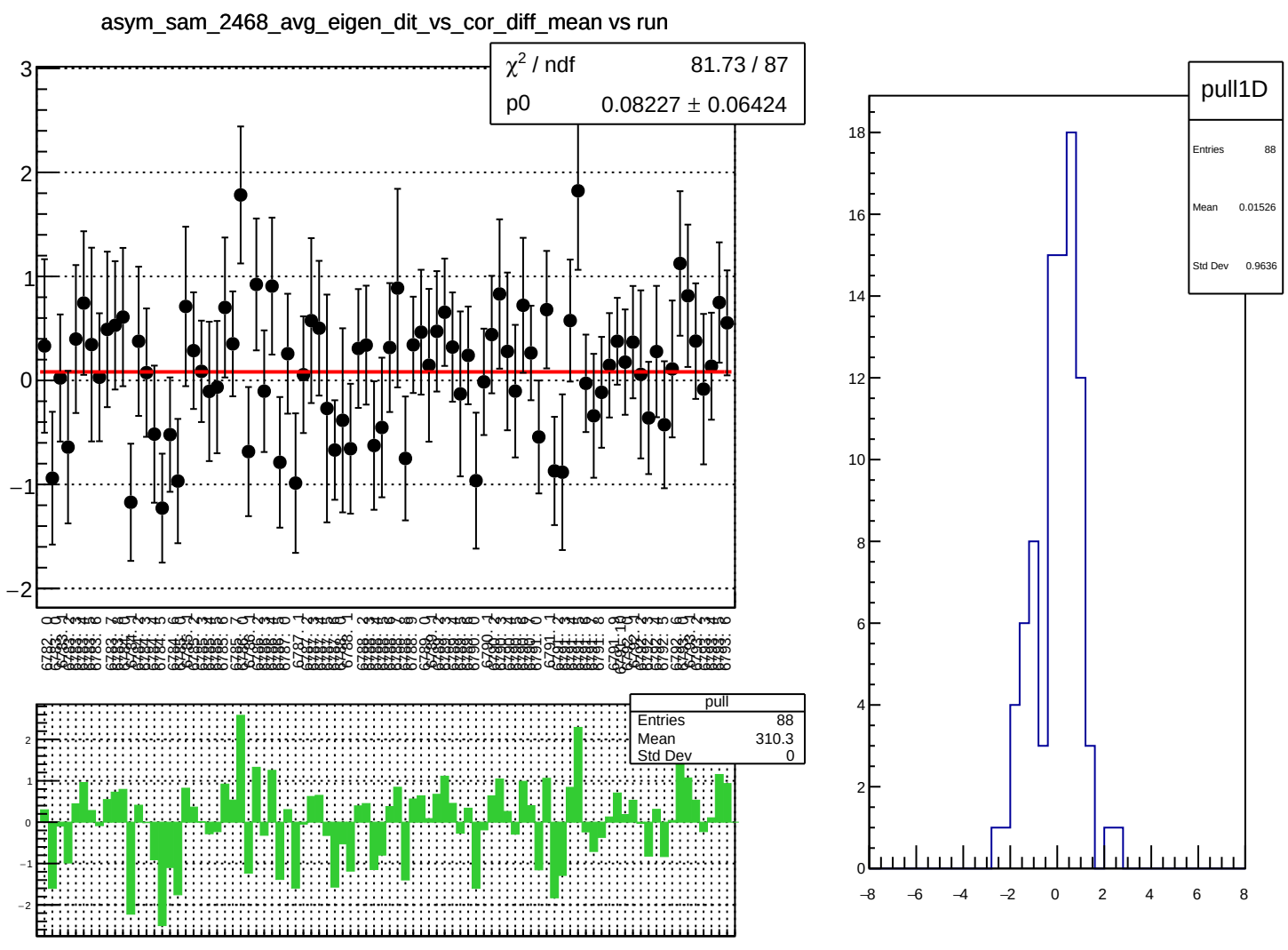

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.73 / 87
p0 0.08226 ± 0.06424
pull
Entries 88
Mean 310.4
Std Dev 0
pull1D
Entries 88
Mean 0.01526
Std Dev 0.9636

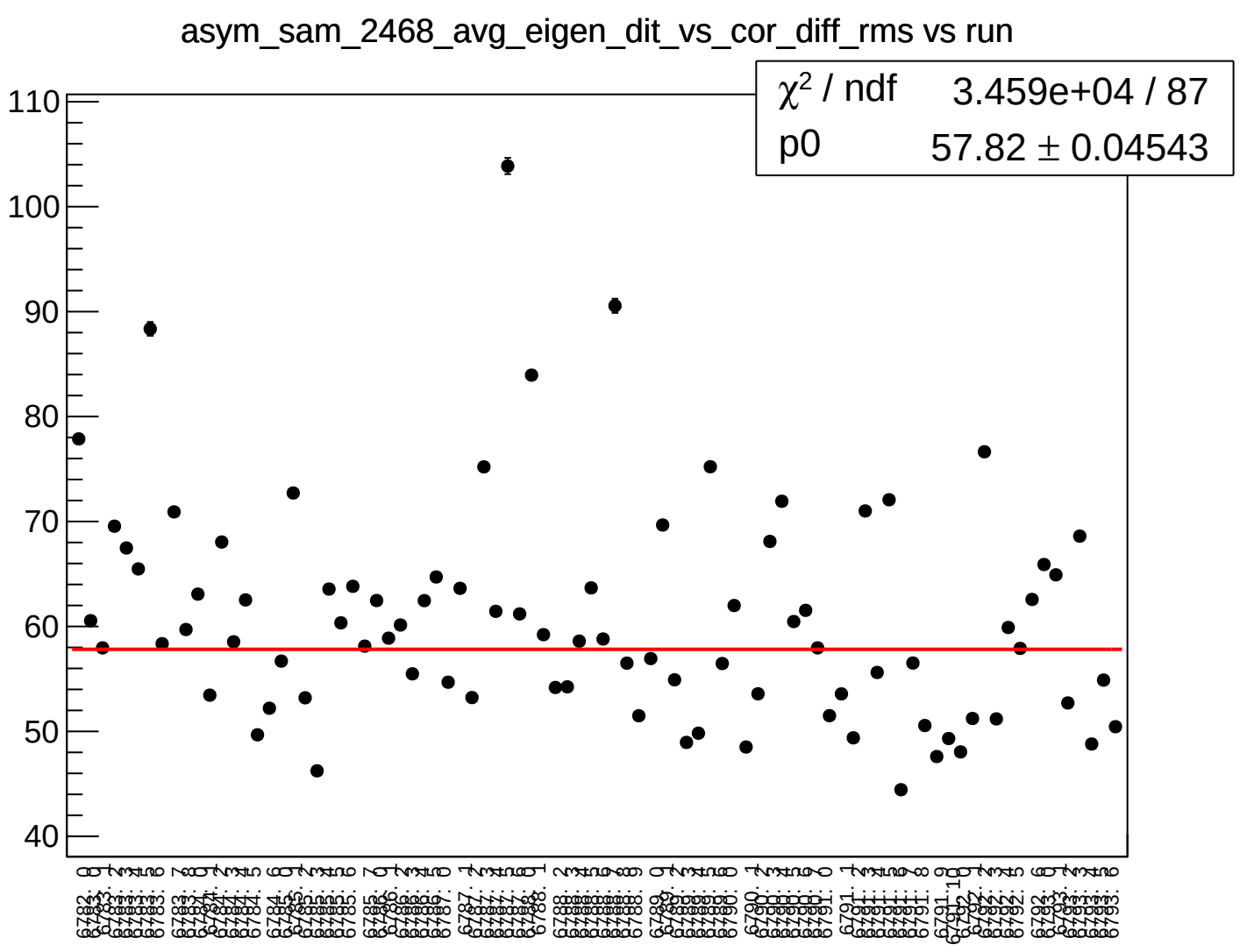

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.459e+04 / 87
p0 57.82 ± 0.04543
110
100
90
80
70
60
50
40

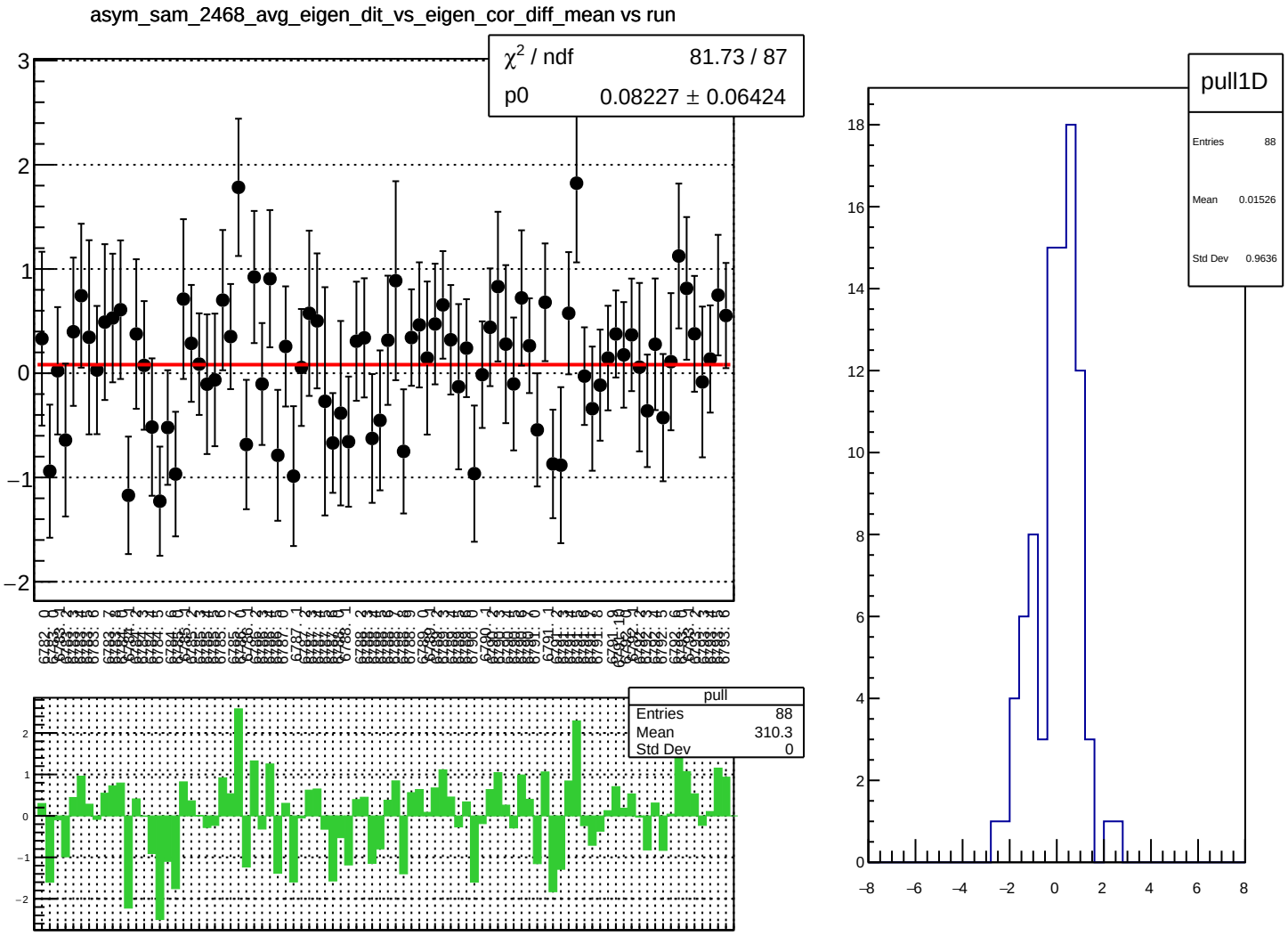

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.5 / 87
p0 2.466e−06 ± 1.709e−06
pull
Entries 88
Mean −97.48
Std Dev 0

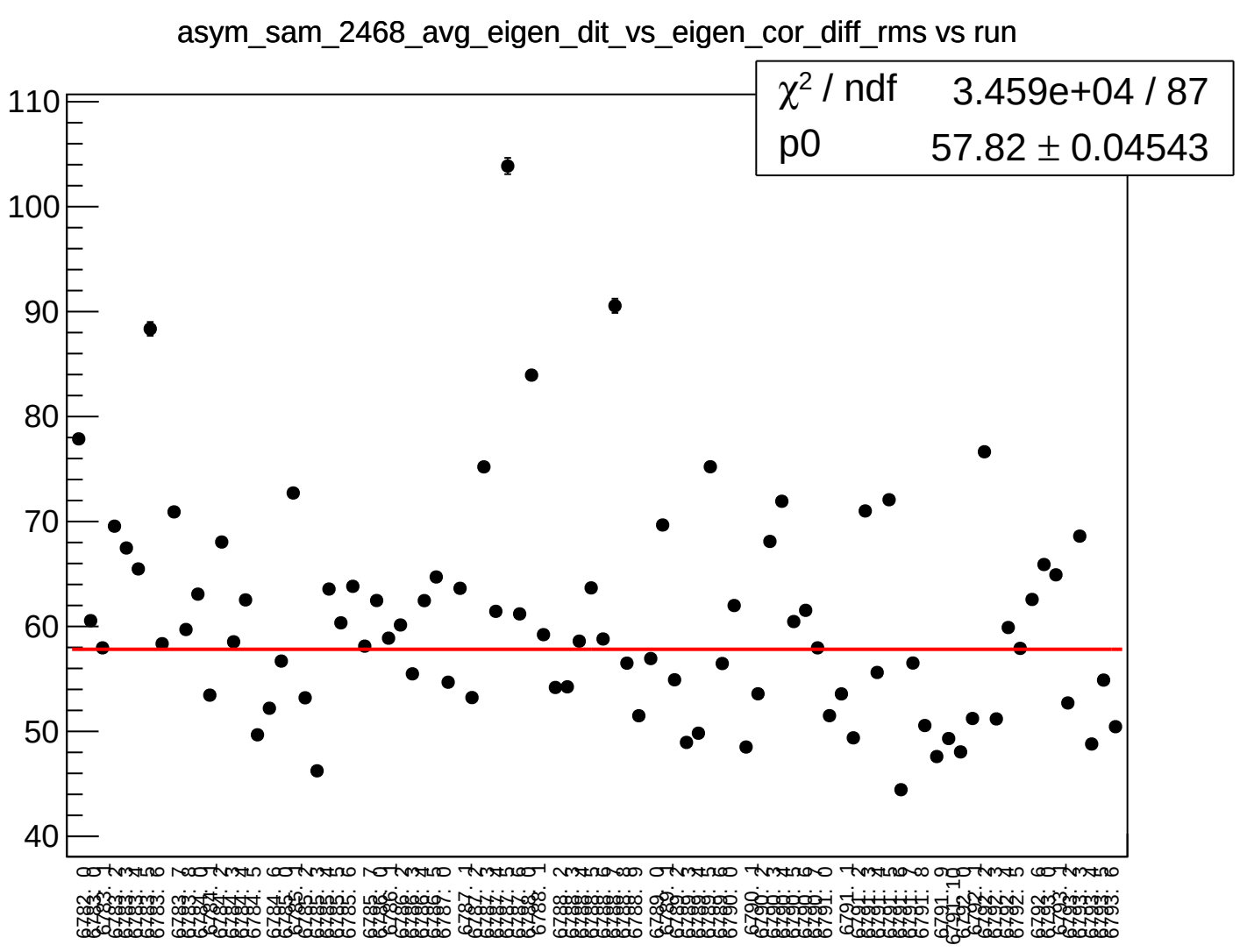

pull1D
Entries 88
Mean 0.009545
Std Dev 1.09

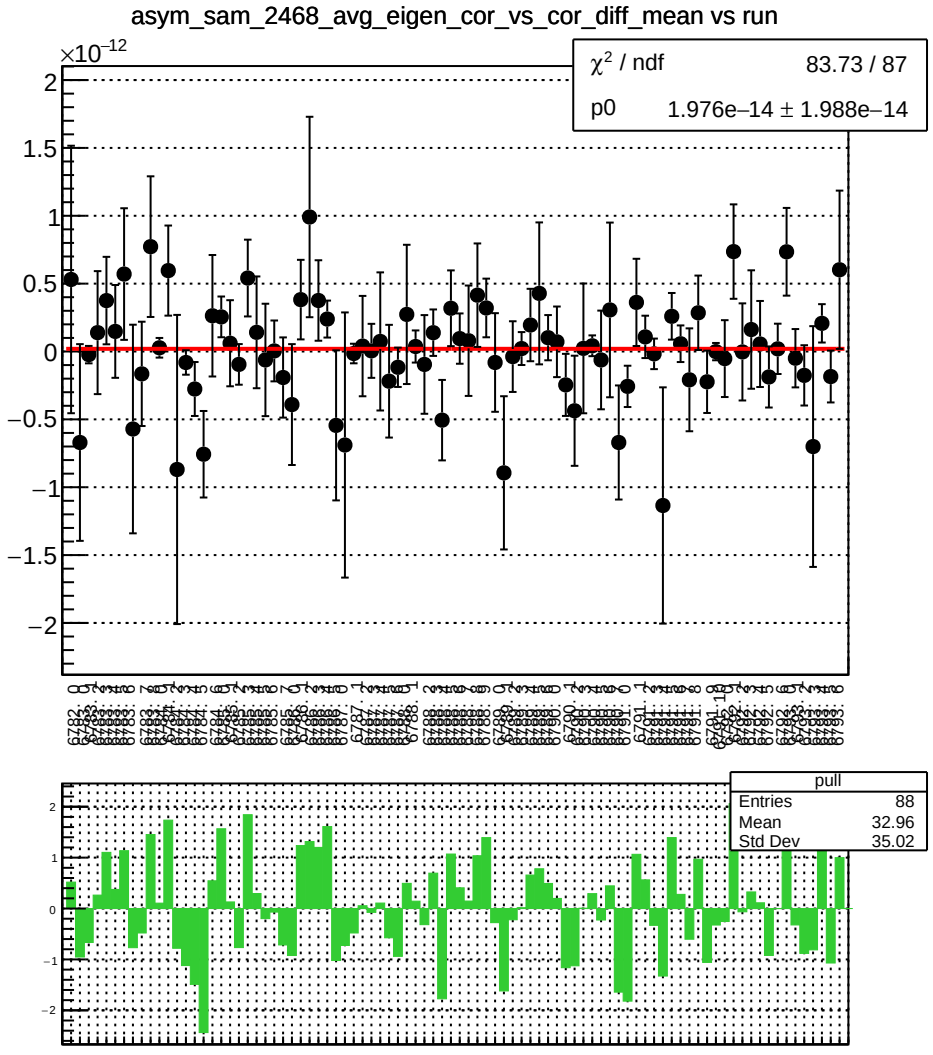

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2031 / 87
p0 0.001553 ± 1.208e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

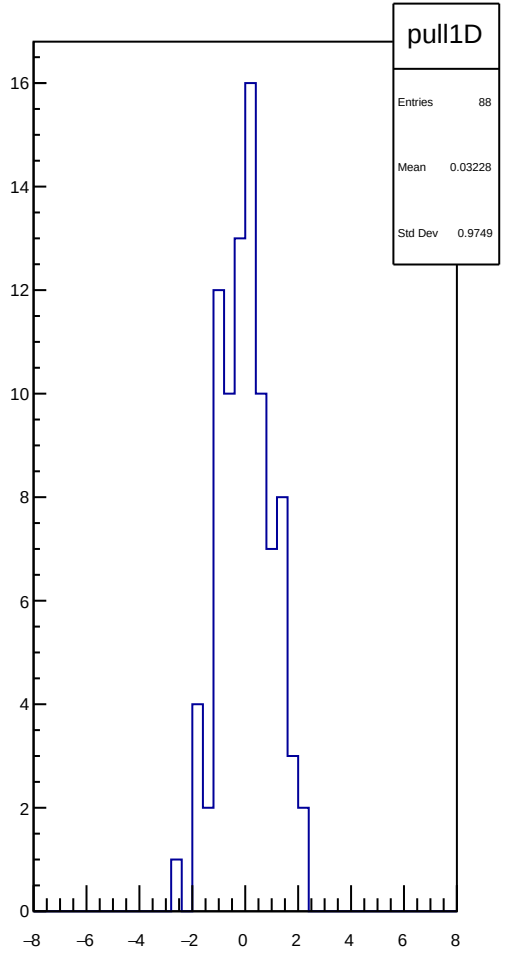

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.73 / 87
p0 0.08227 ± 0.06424
pull
Entries 88
Mean 310.3
Std Dev 0
pull1D
Entries 88
Mean 0.01526
Std Dev 0.9636

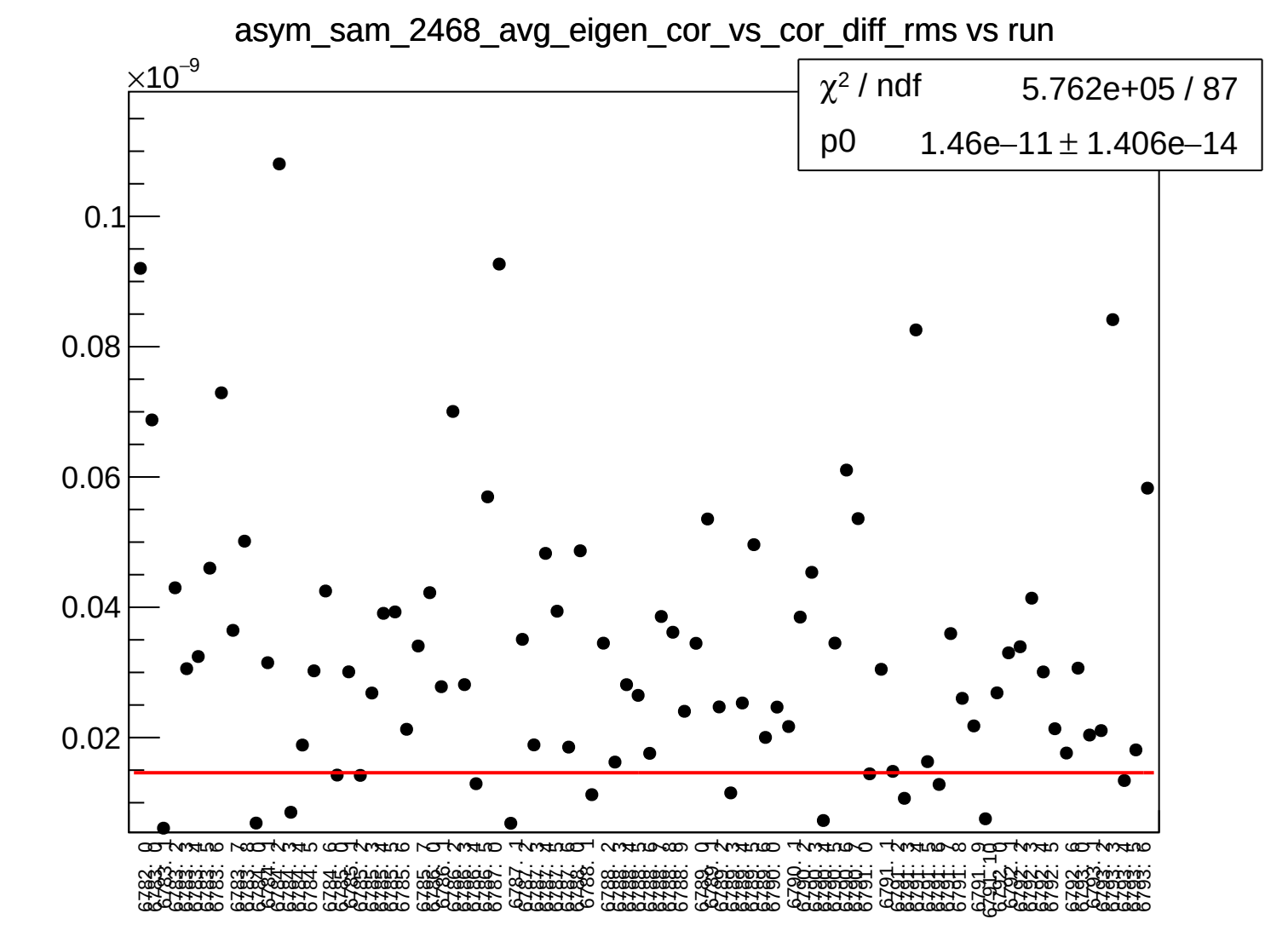

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.459e+04 / 87
p0 57.82 ± 0.04543
110
100
90
80
70
60
50
40

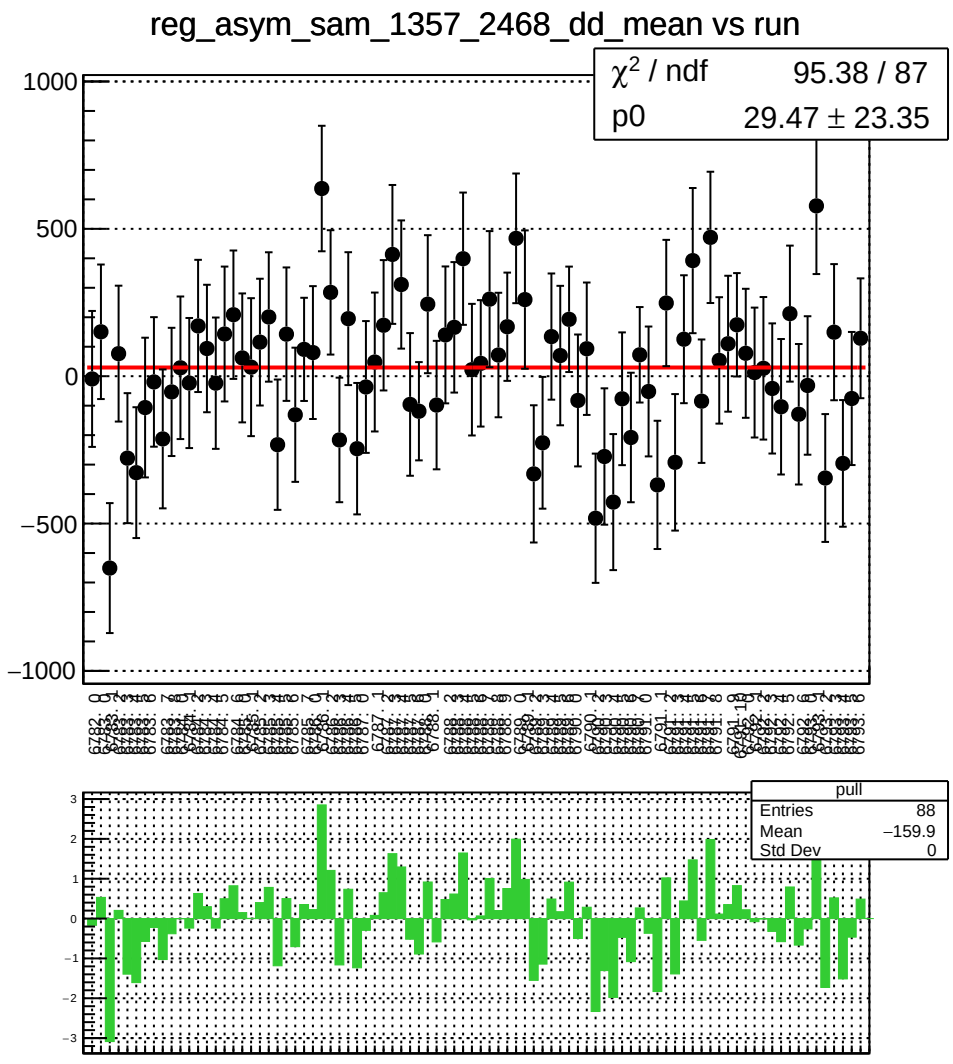

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.73 / 87
p0 0.08227 ± 0.06424
pull
Entries 88
Mean 310.3
Std Dev 0
pull1D
Entries 88
Mean 0.01526
Std Dev 0.9636

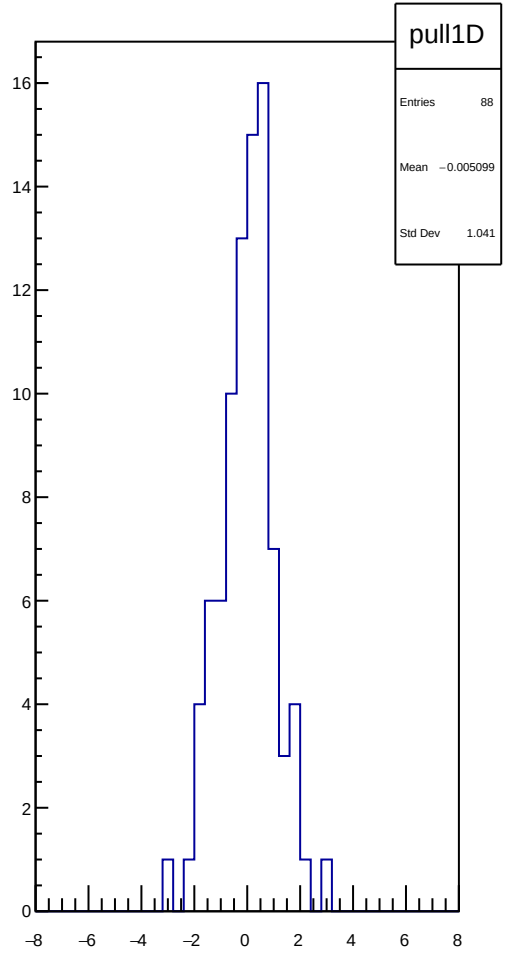

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.459e+04 / 87
p0 57.82 ± 0.04543
110
100
90
80
70
60
50
40

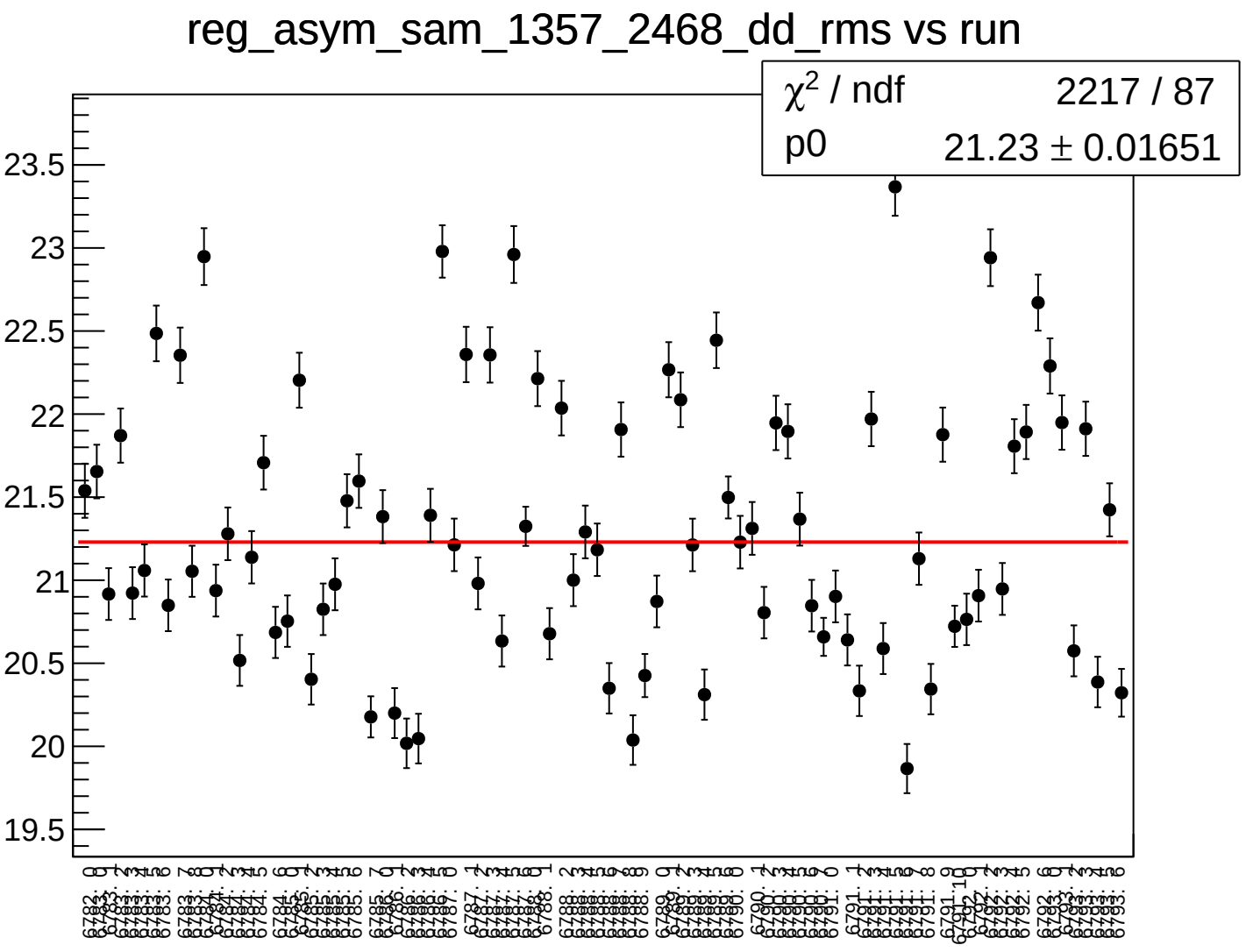

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.73 / 87
p0 1.976e−14 ± 1.988e−14
pull
Entries 88
Mean 32.96
Std Dev 35.02

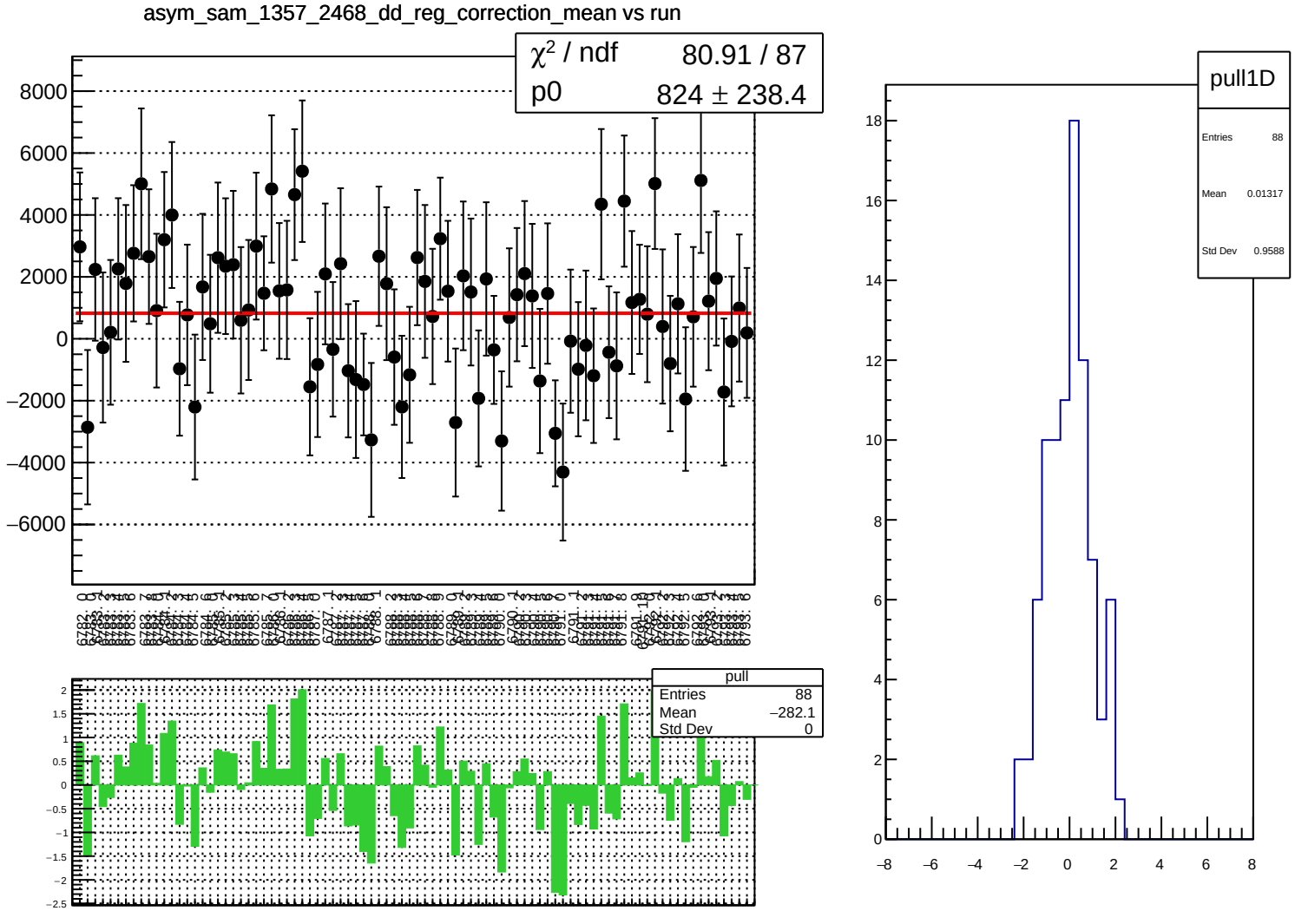

pull1D
Entries 88
Mean 0.03228
Std Dev 0.9749

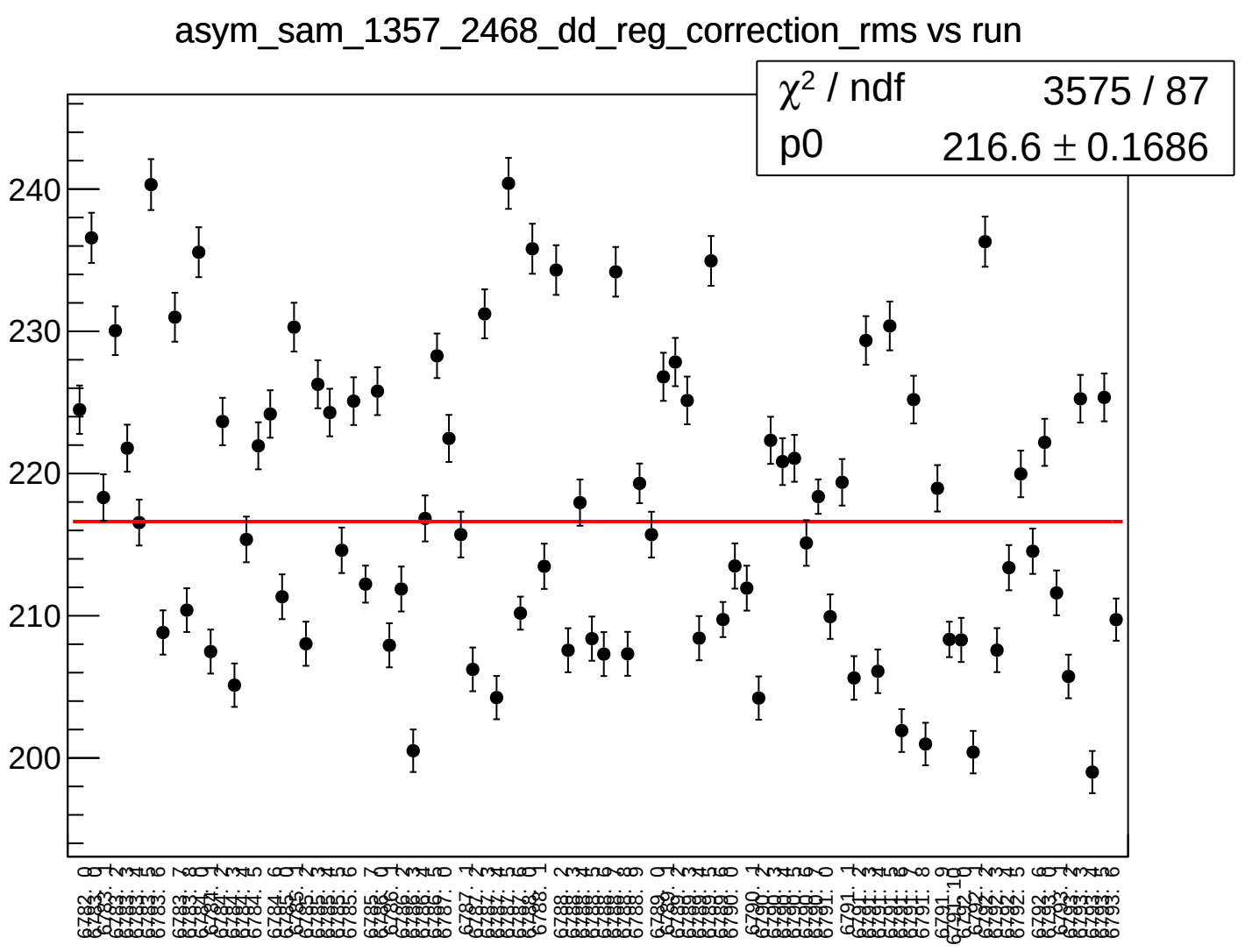

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.762e+05 / 87
p0 1.46e−11 ± 1.406e−14
0.1
0.08
0.06
0.04
0.02

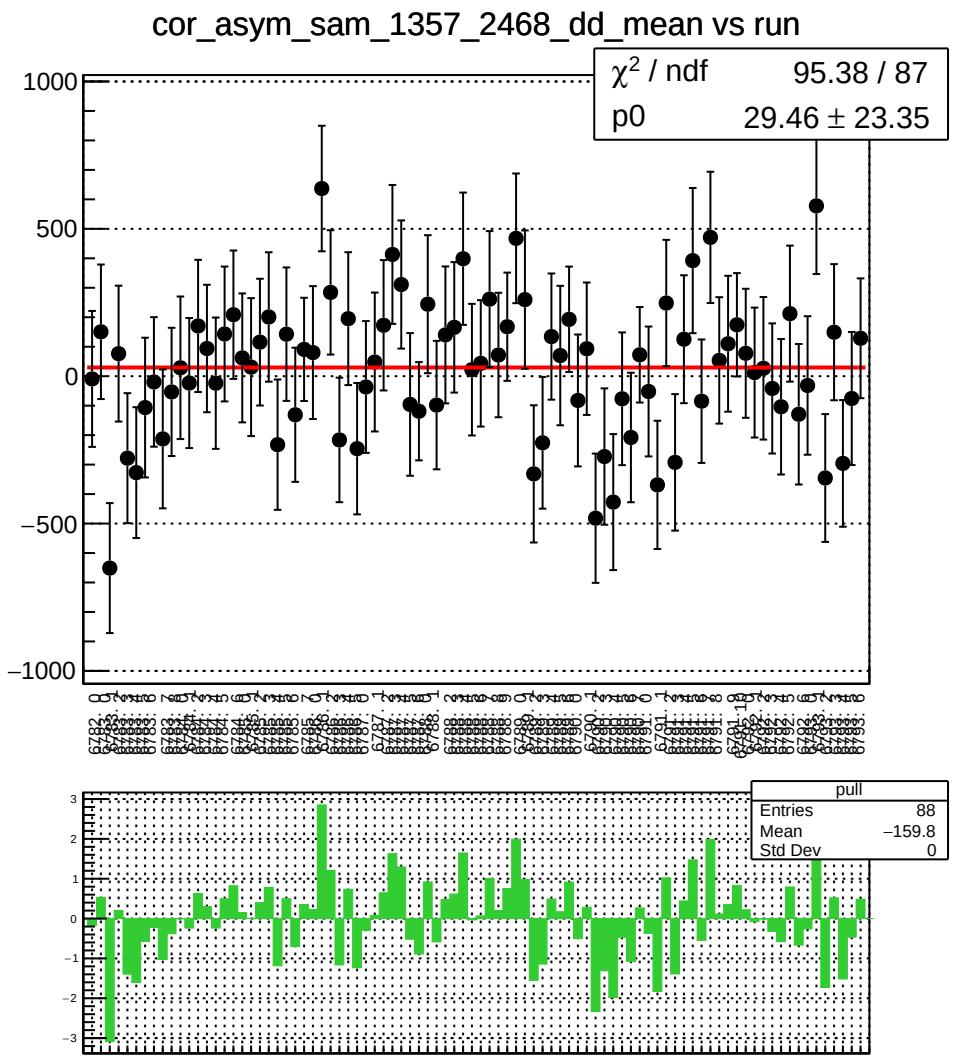

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 95.38 / 87
p0 29.47 ± 23.35
1000
500
0
−500
−1000
pull
Entries 88
Mean −159.9
Std Dev 0
3
2
1
0
−1
−2
−3

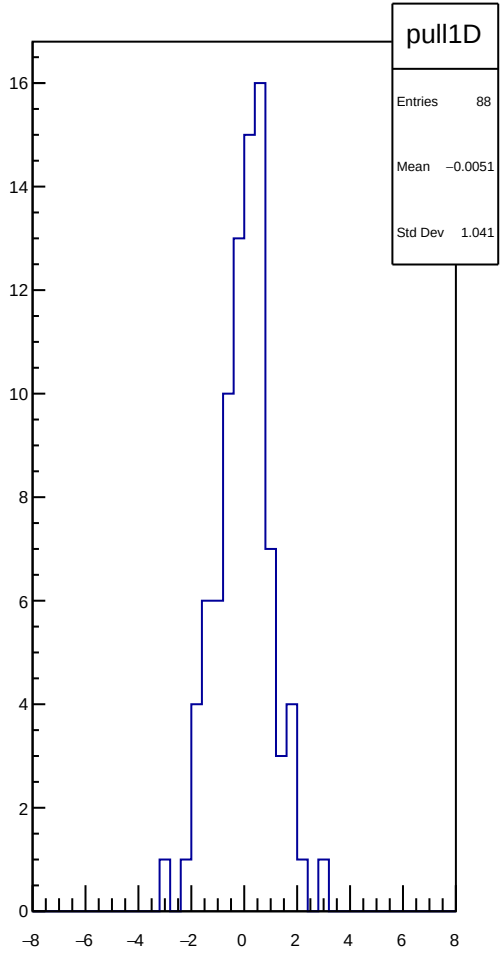

pull1D
Entries 88
Mean −0.005099
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

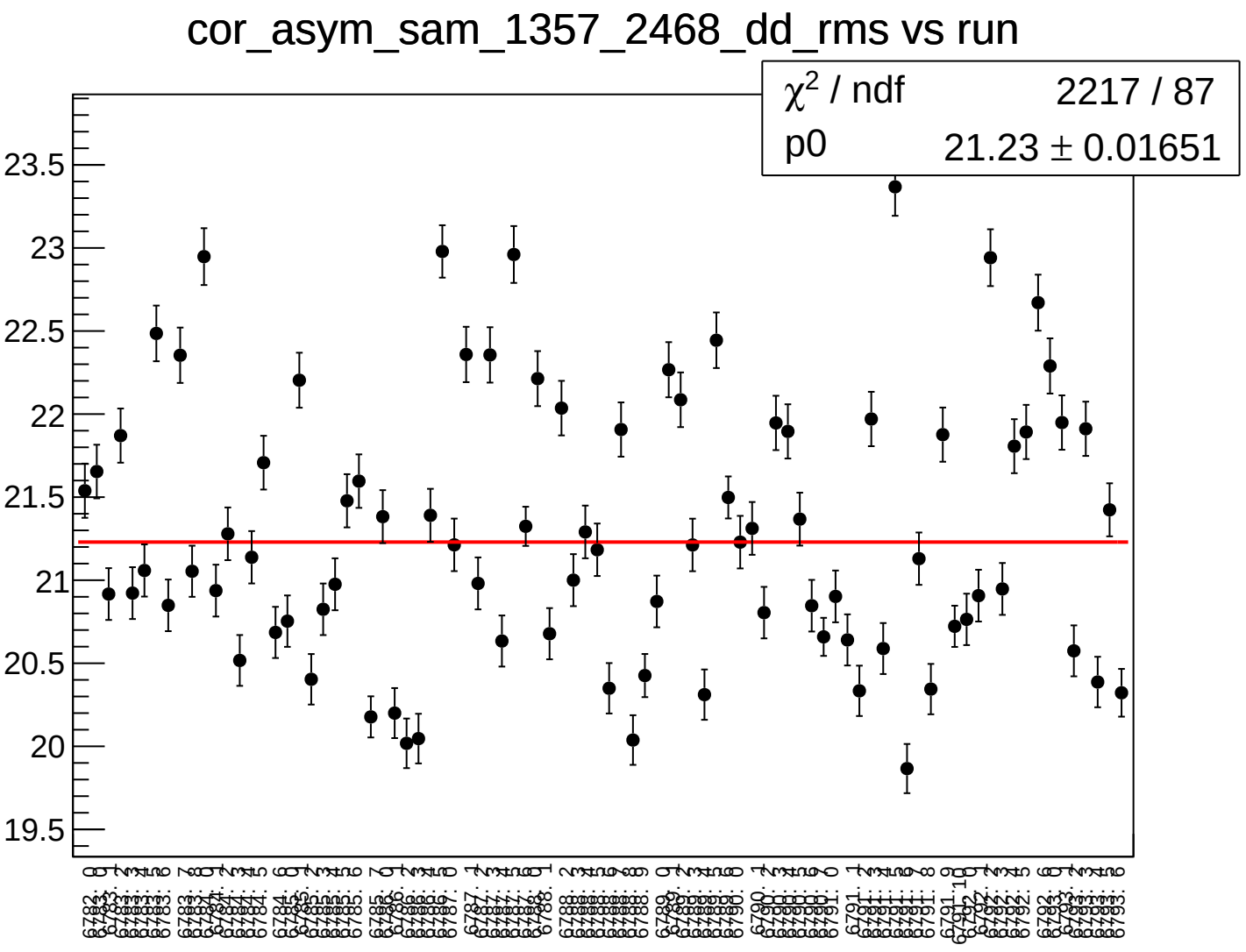

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2217 / 87
p0 21.23 ± 0.01651
23.5
23
22.5
22
21.5
21
20.5
20
19.5

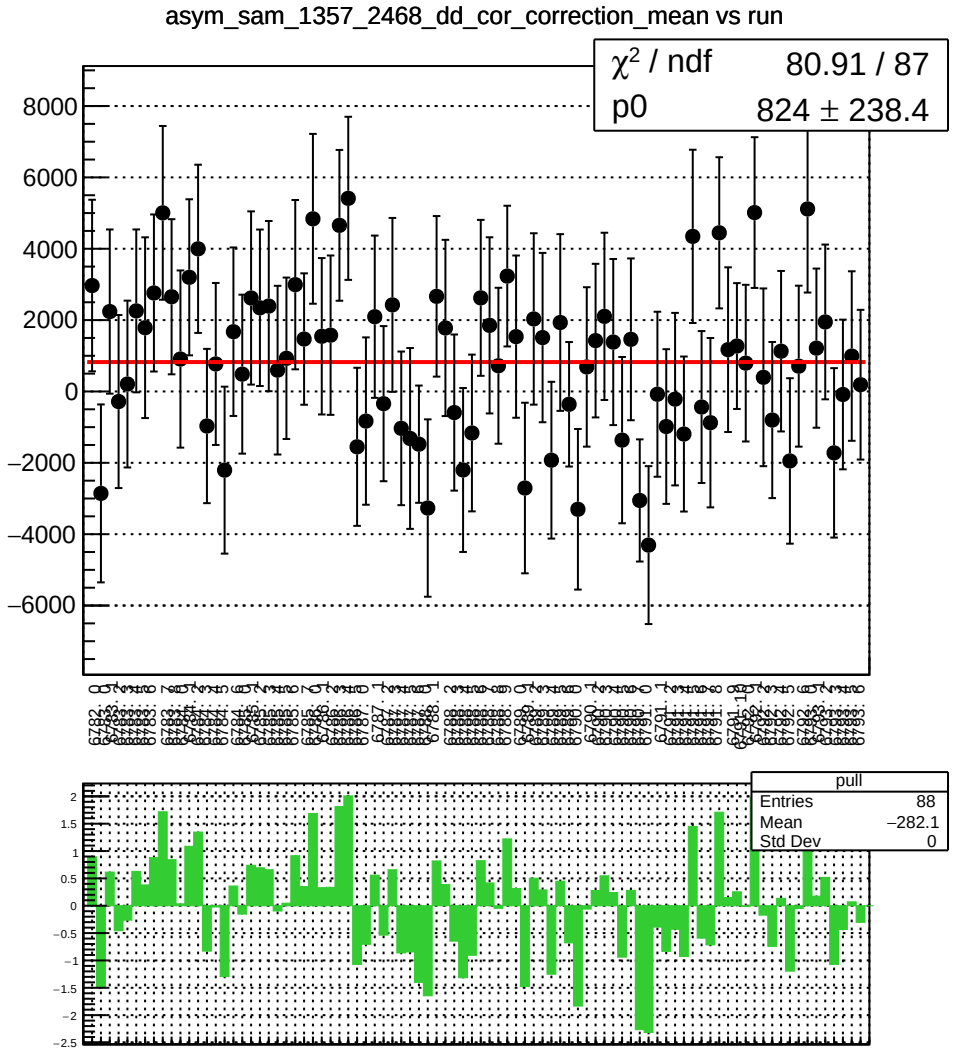

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 80.91 / 87
p0 824 ± 238.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −282.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.01317
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

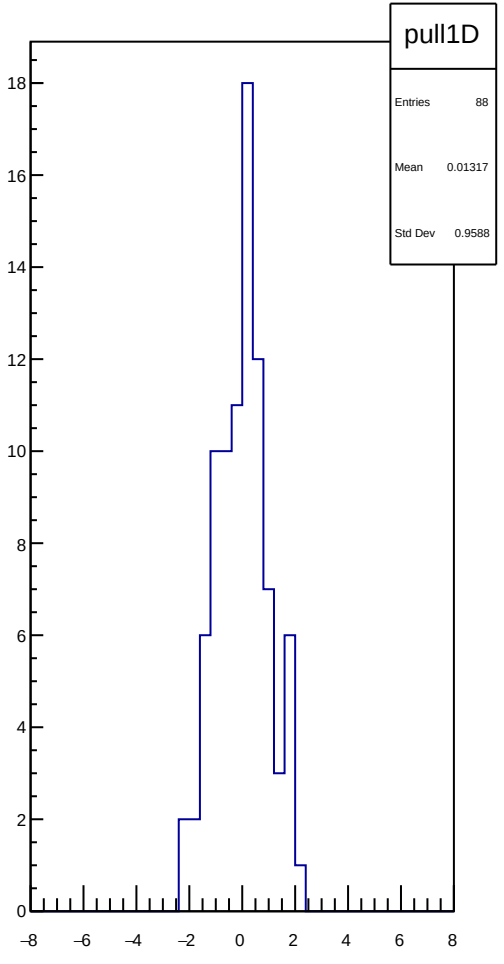

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3575 / 87
p0 216.6 ± 0.1686
240
230
220
210
200

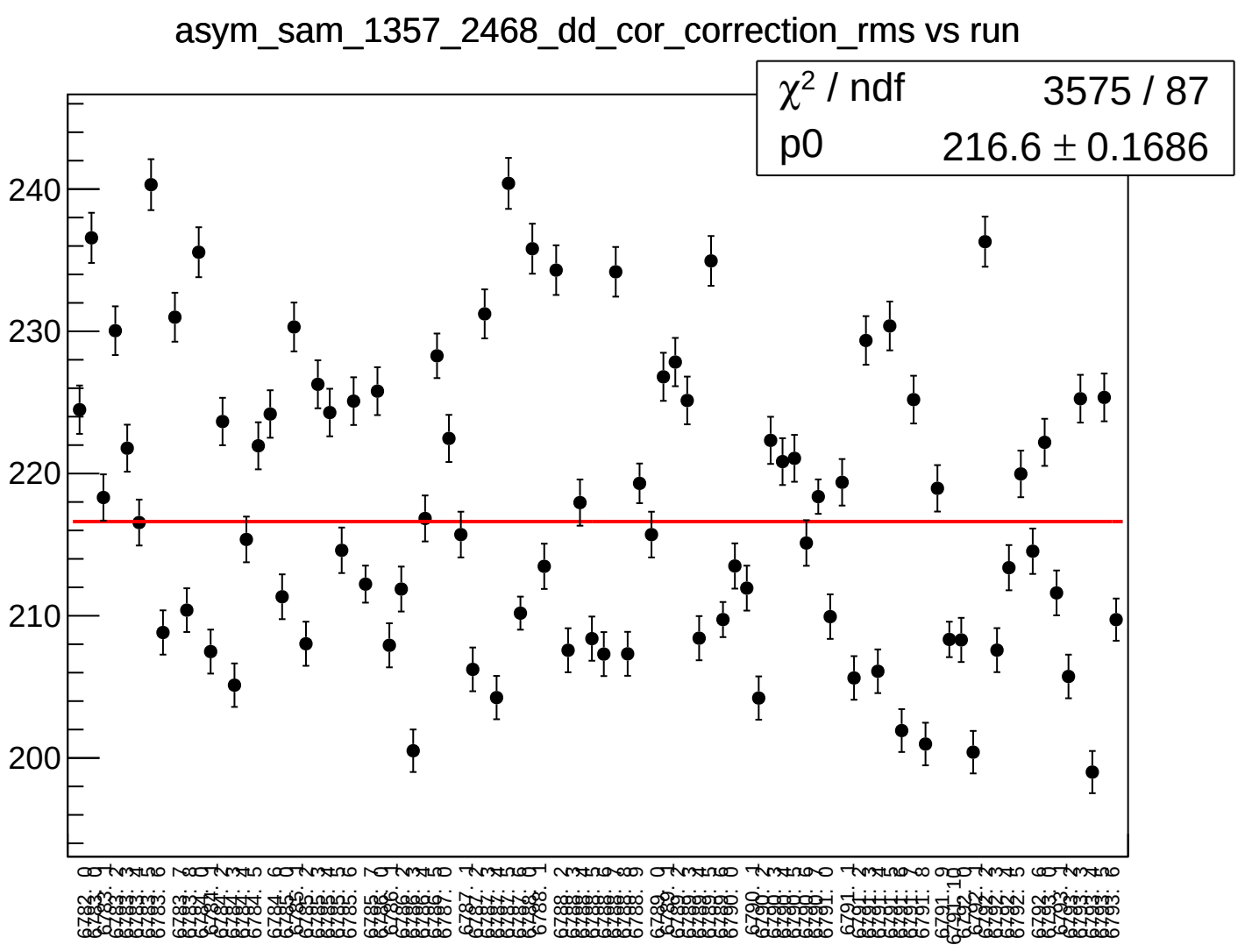

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 95.38 / 87
p0 29.46 ± 23.35
1000
500
0
−500
−1000
pull
Entries 88
Mean −159.8
Std Dev 0
3
2
1
0
−1
−2
−3

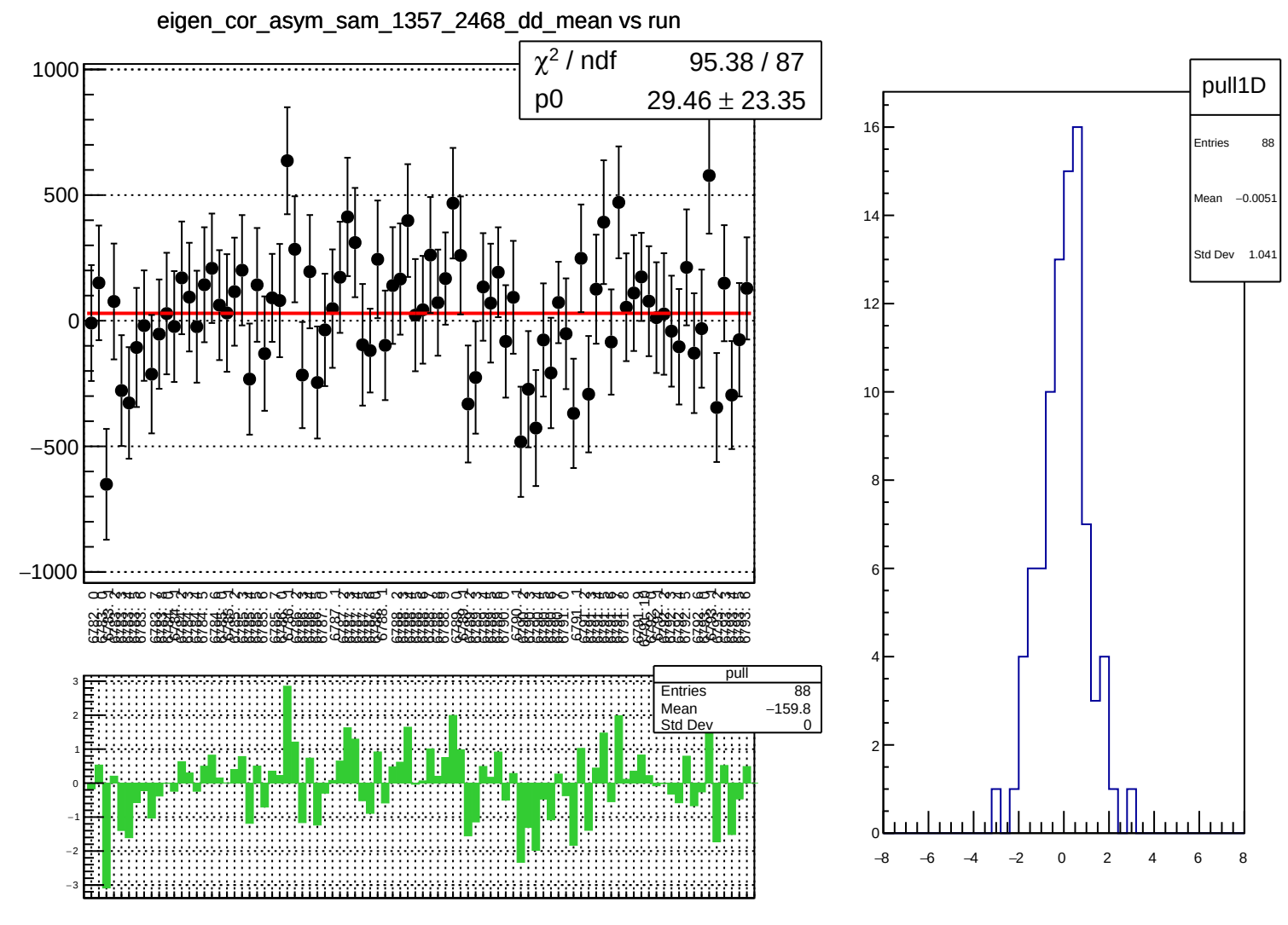

pull1D
Entries 88
Mean −0.0051
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

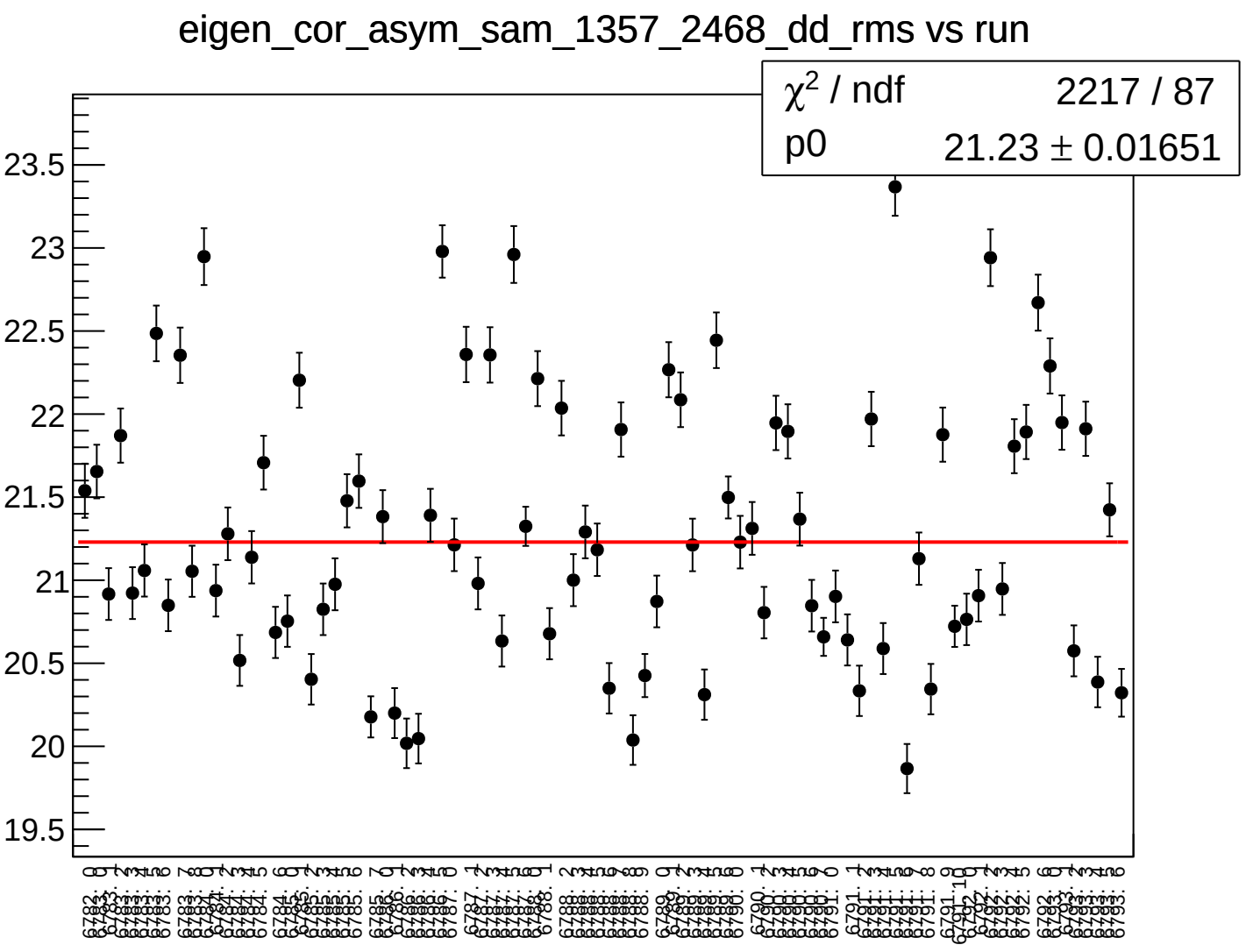

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2217 / 87
p0 21.23 ± 0.01651
23.5
23
22.5
22
21.5
21
20.5
20
19.5

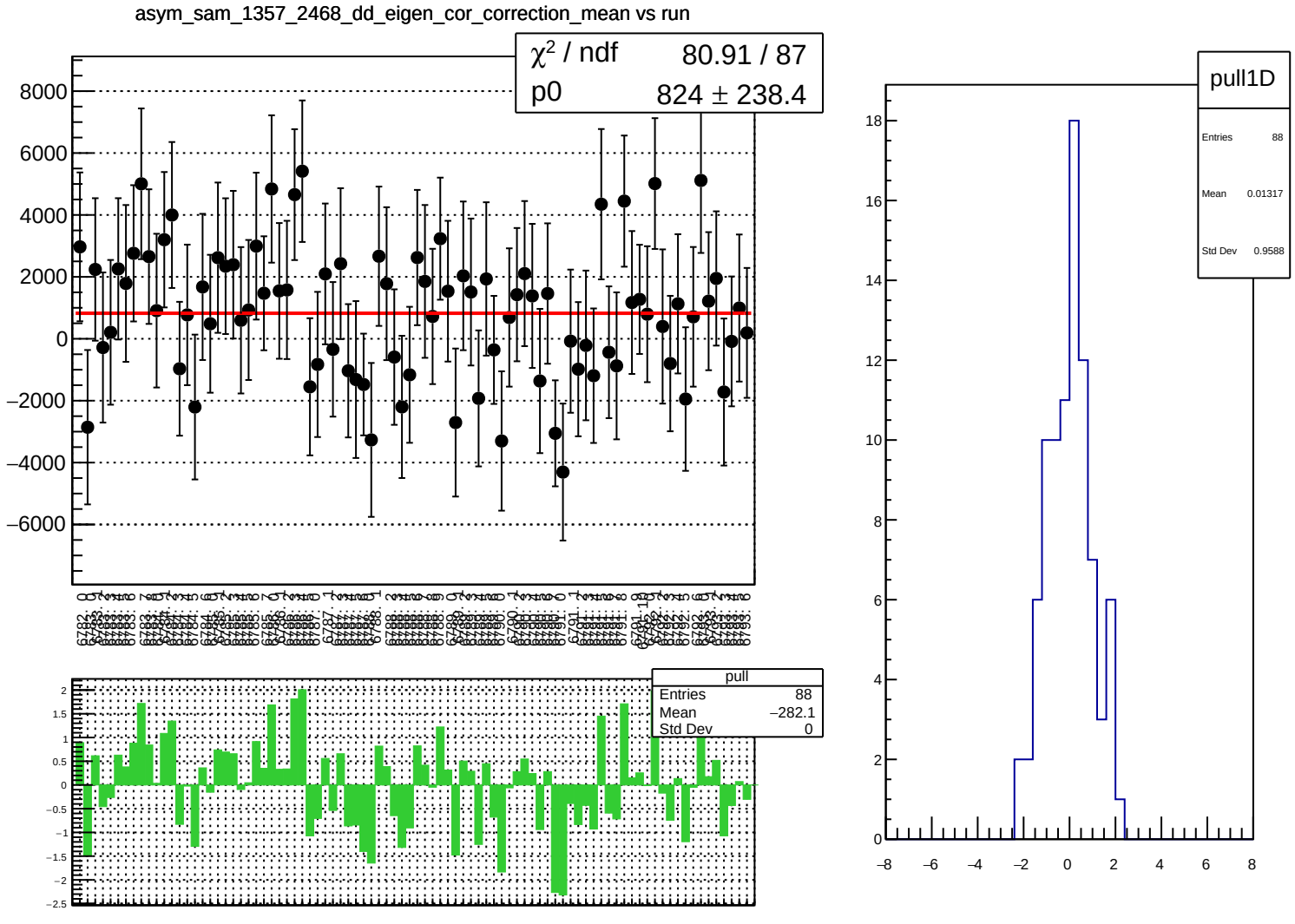

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 80.91 / 87
p0 824 ± 238.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −282.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

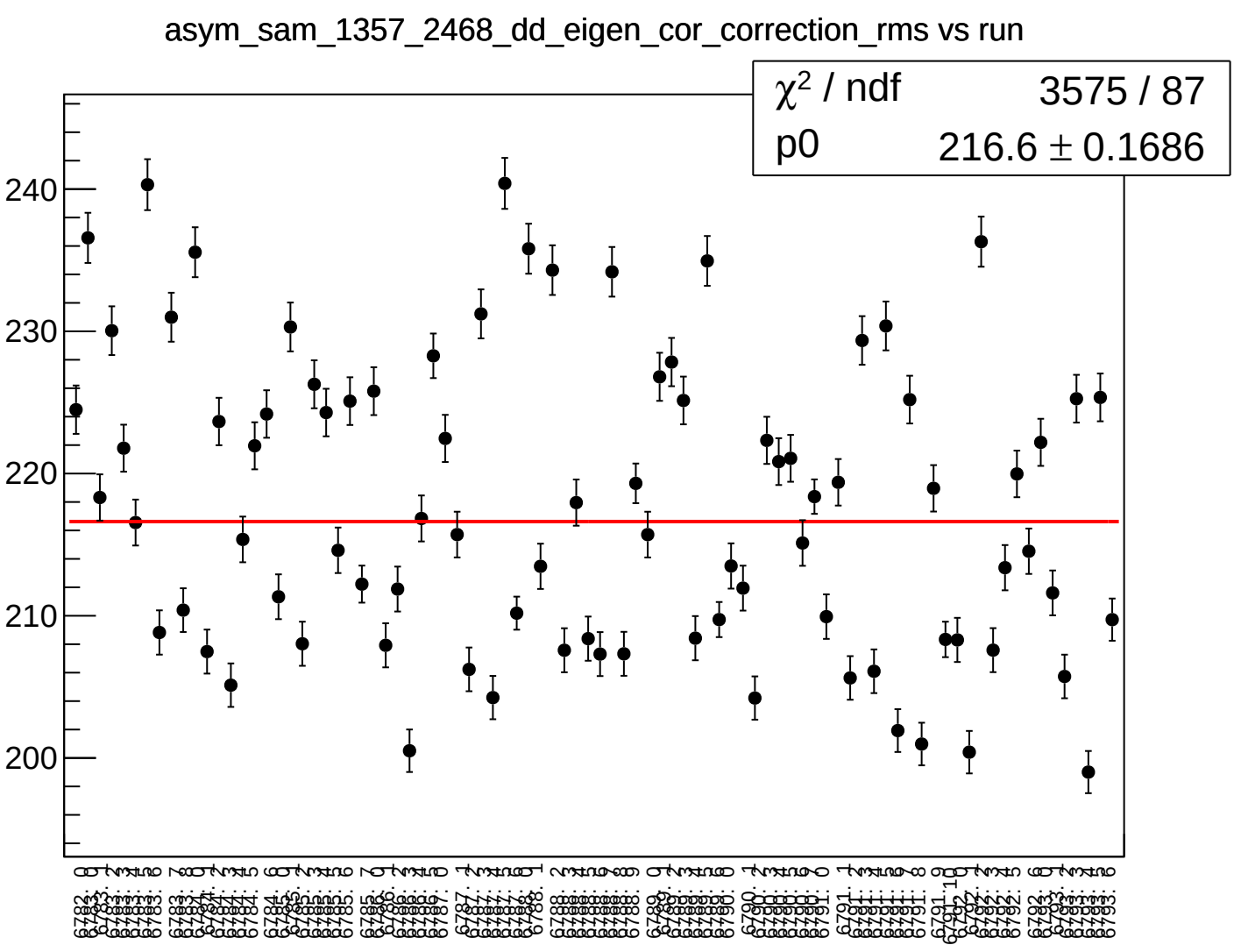

pull1D
Entries 88
Mean 0.01317
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

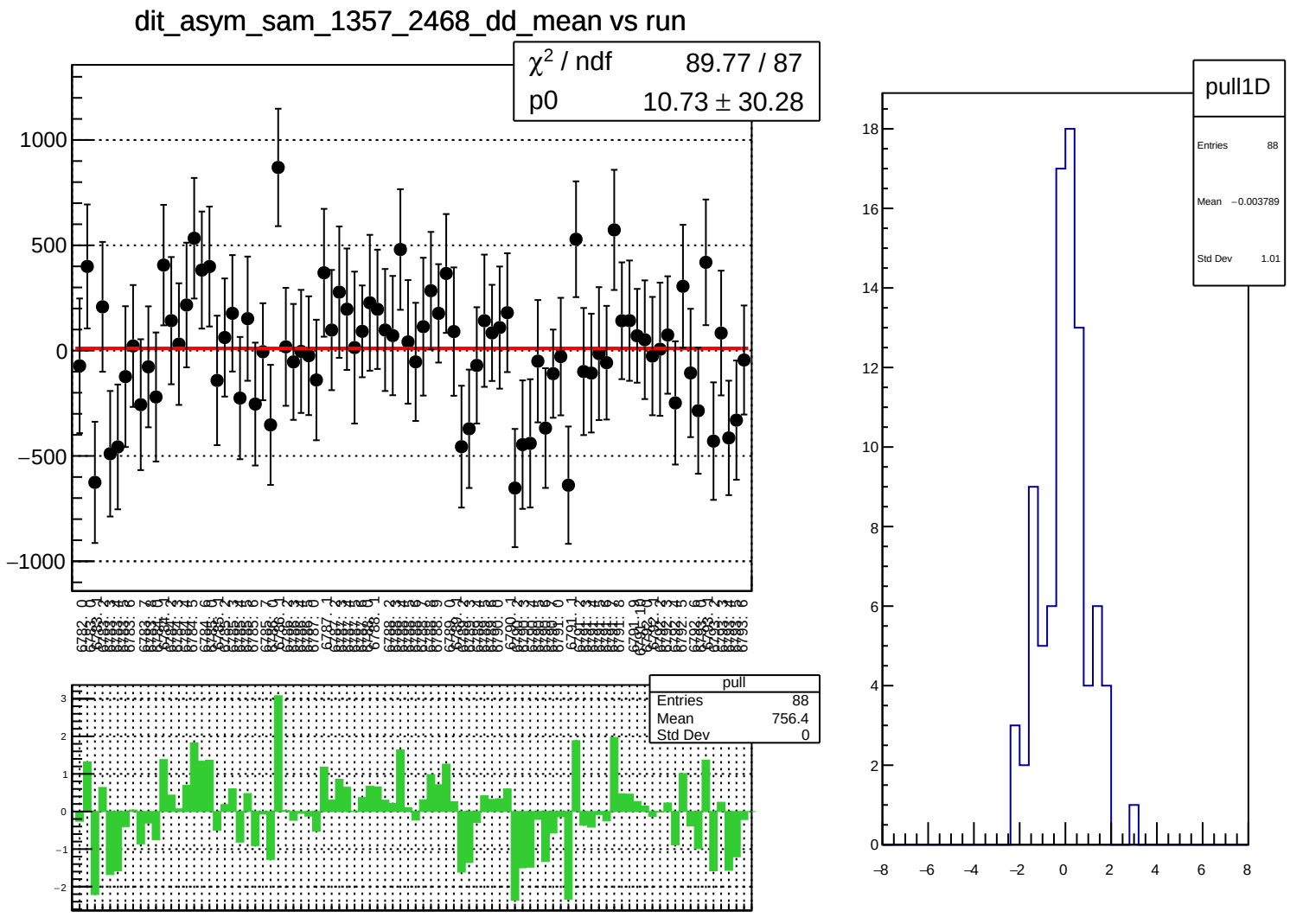

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3575 / 87
p0 216.6 ± 0.1686
240
230
220
210
200

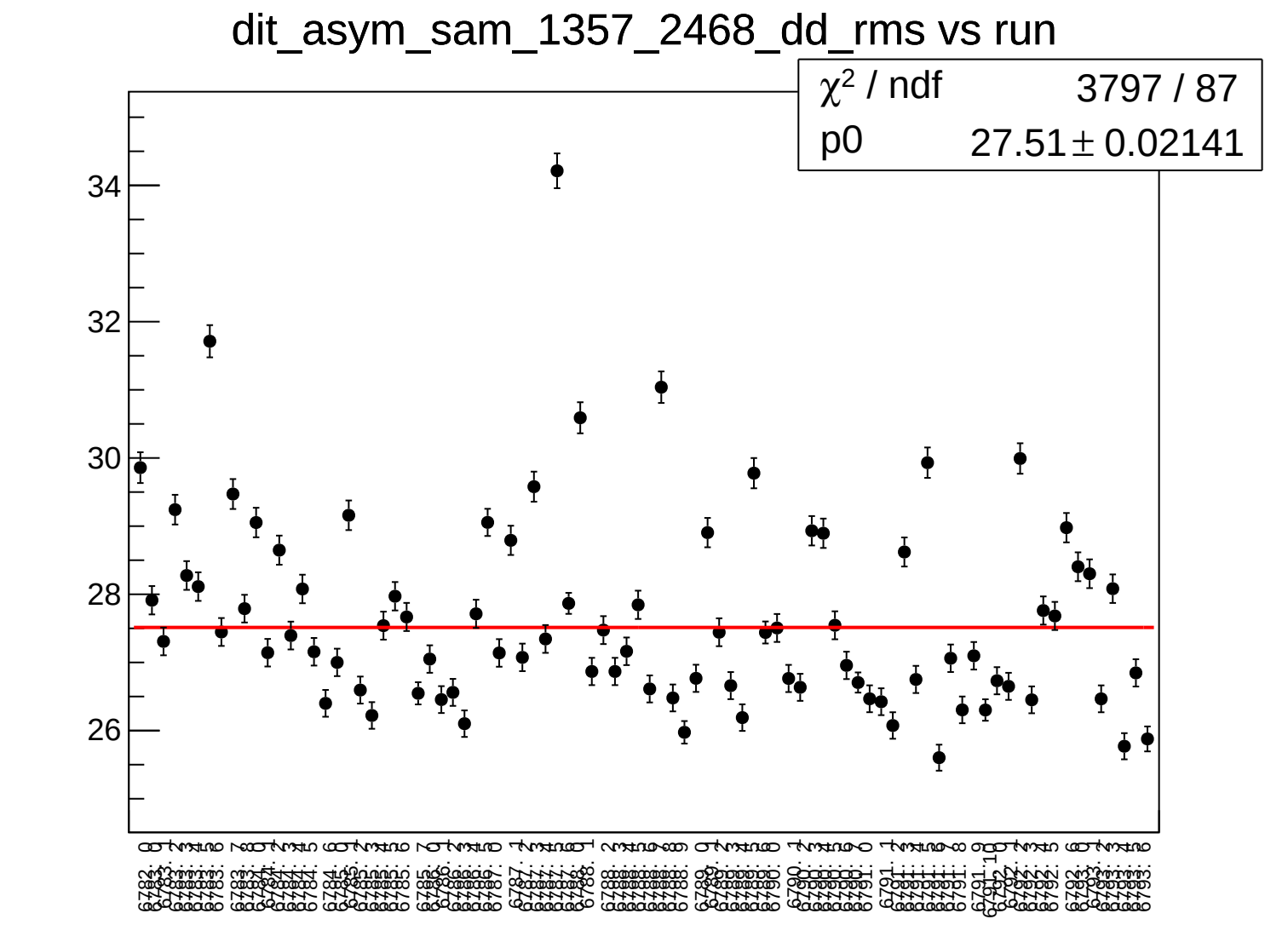

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 95.38 / 87
p0 29.46 ± 23.35
1000
500
0
−500
−1000
pull
Entries 88
Mean −159.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0051
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

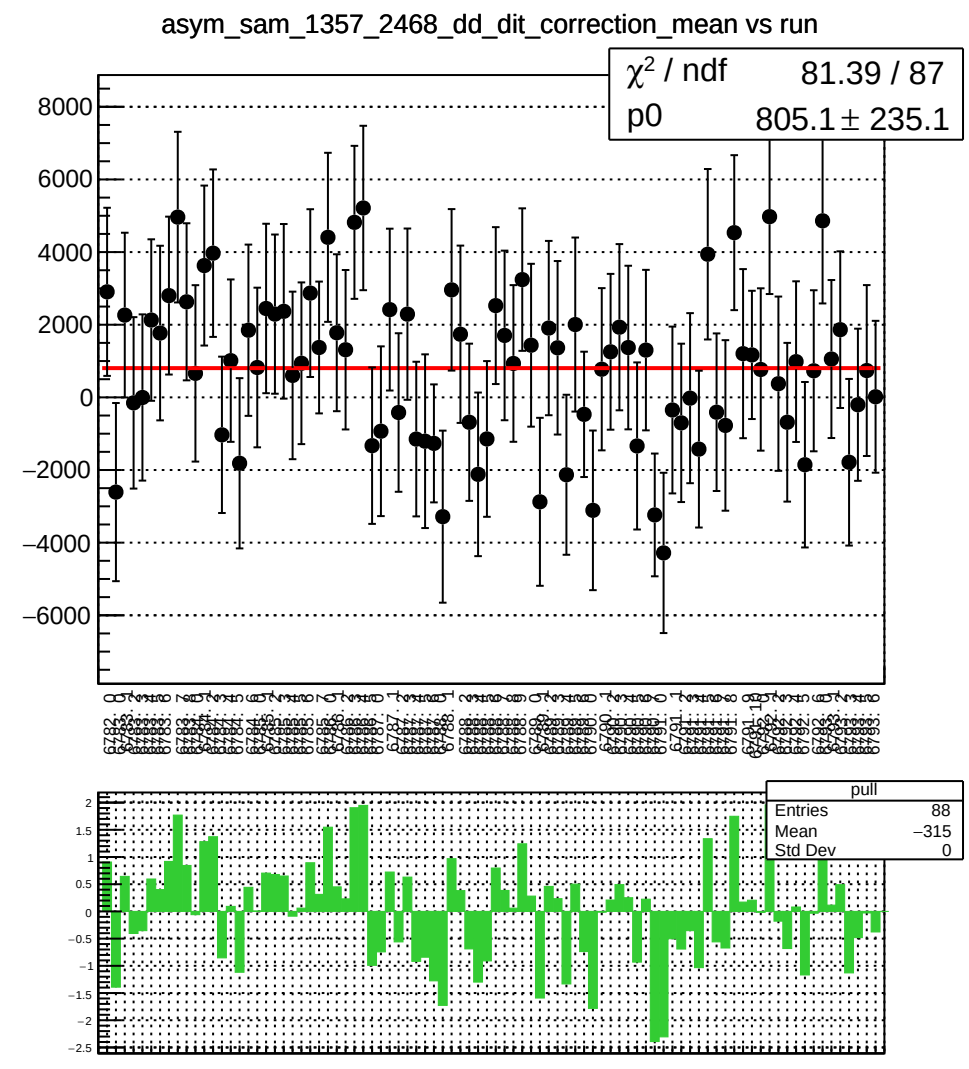

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2217 / 87
p0 21.23 ± 0.01651
23.5
23
22.5
22
21.5
21
20.5
20
19.5

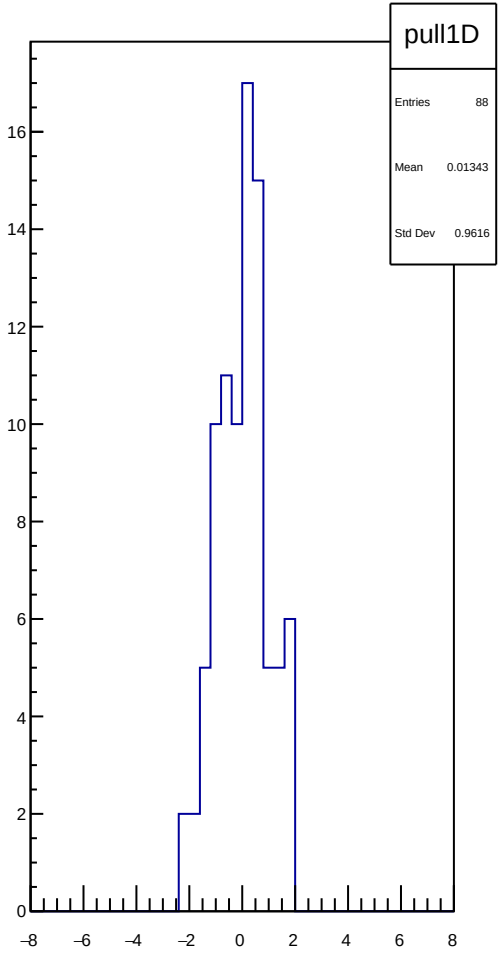

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.91 / 87
p0 824 ± 238.4
pull
Entries 88
Mean −282.1
Std Dev 0
pull1D
Entries 88
Mean 0.01317
Std Dev 0.9588

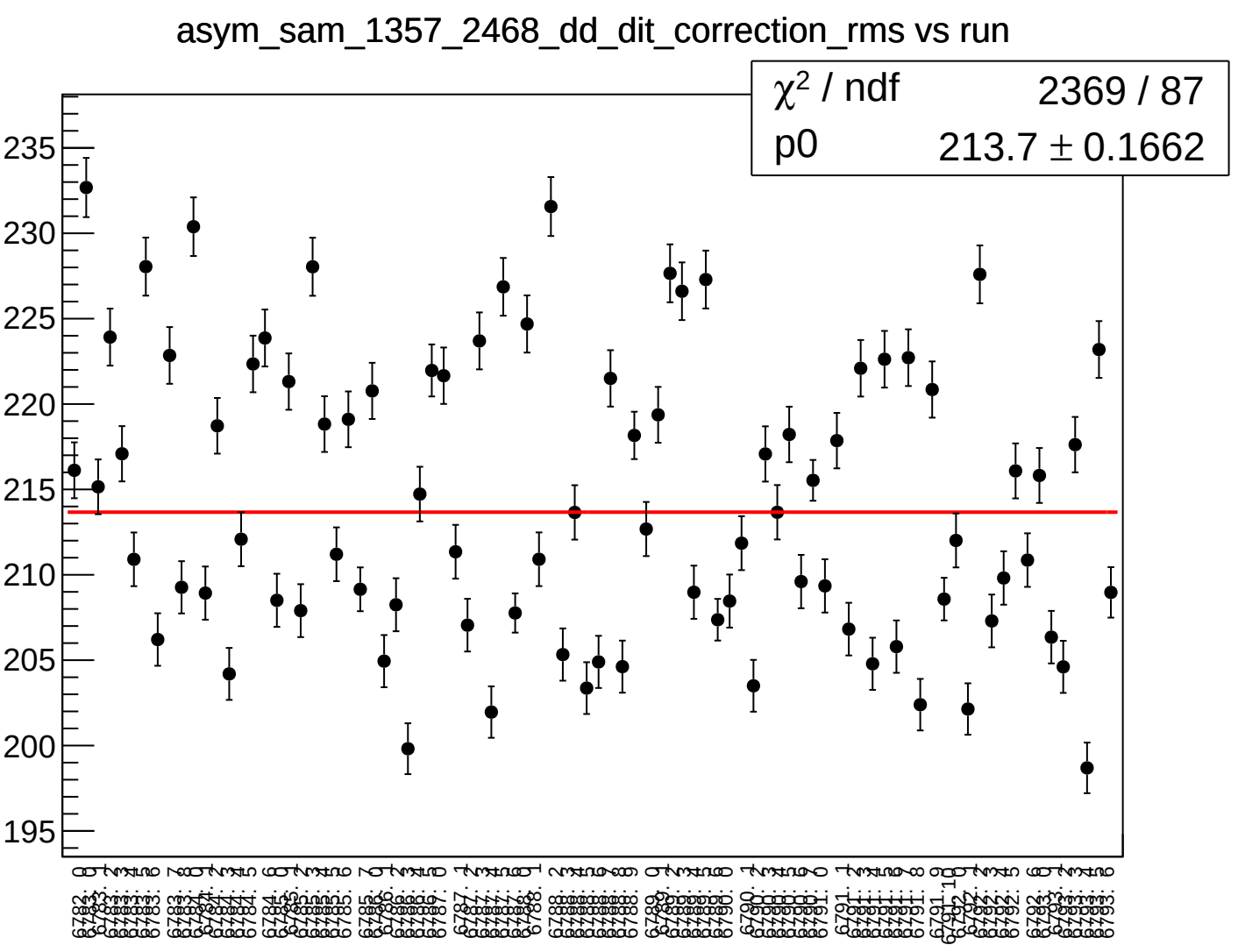

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3575 / 87
p0 216.6 ± 0.1686
240
230
220
210
200

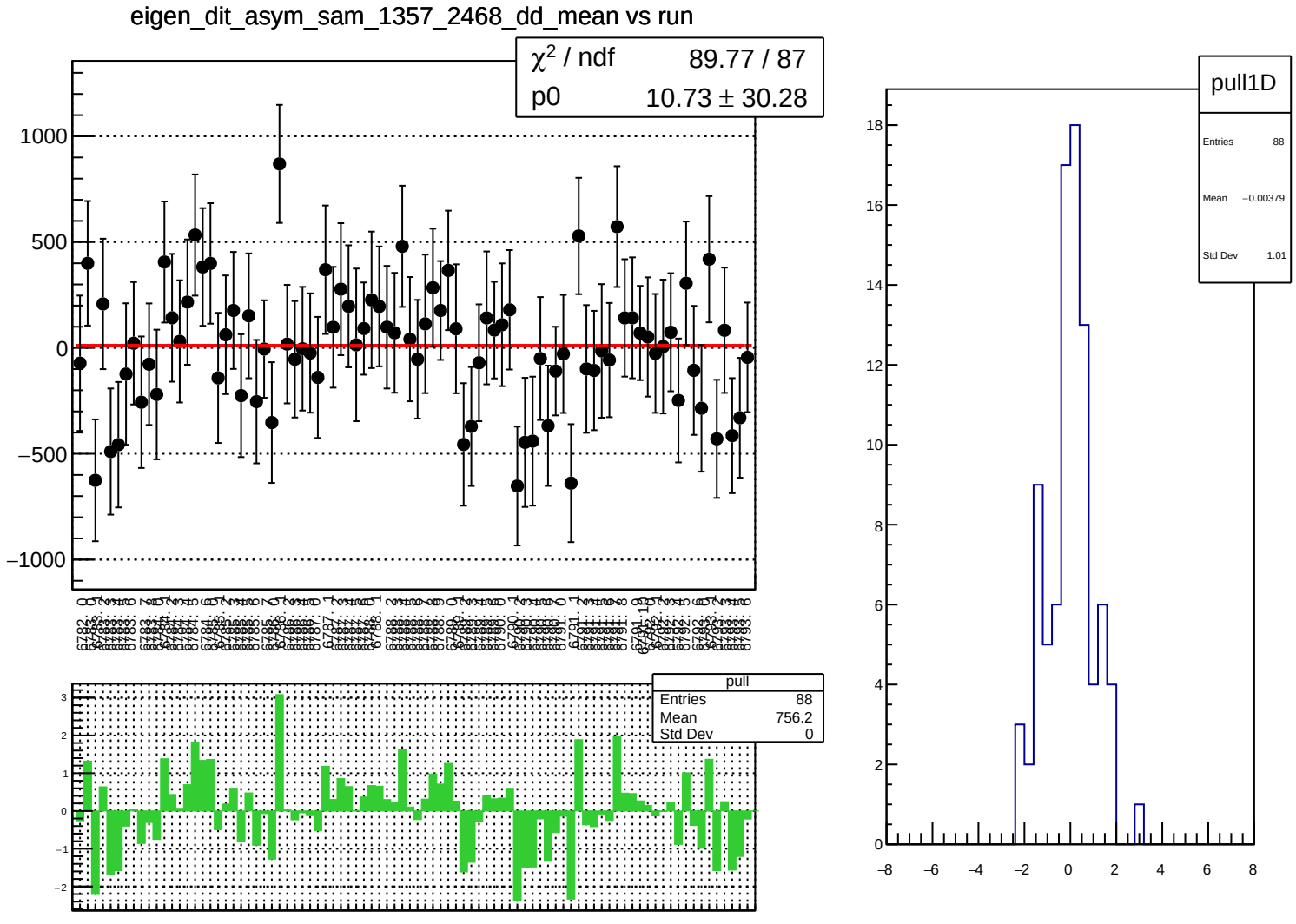

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.77 / 87
p0 10.73 ± 30.28
1000
500
0
−500
−1000
pull
Entries 88
Mean 756.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003789
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

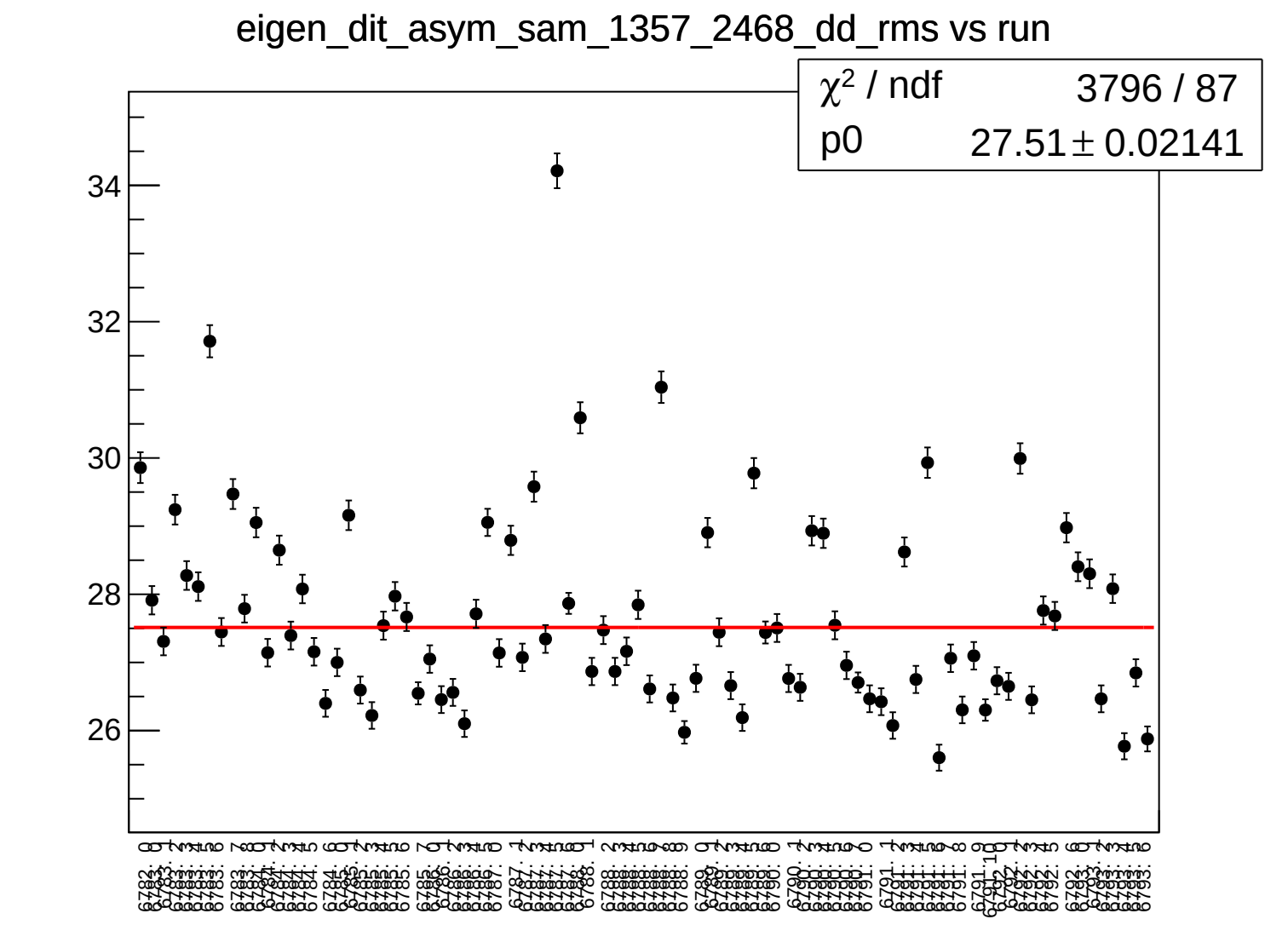

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3797 / 87
p0 27.51 ± 0.02141
34
32
30
28
26

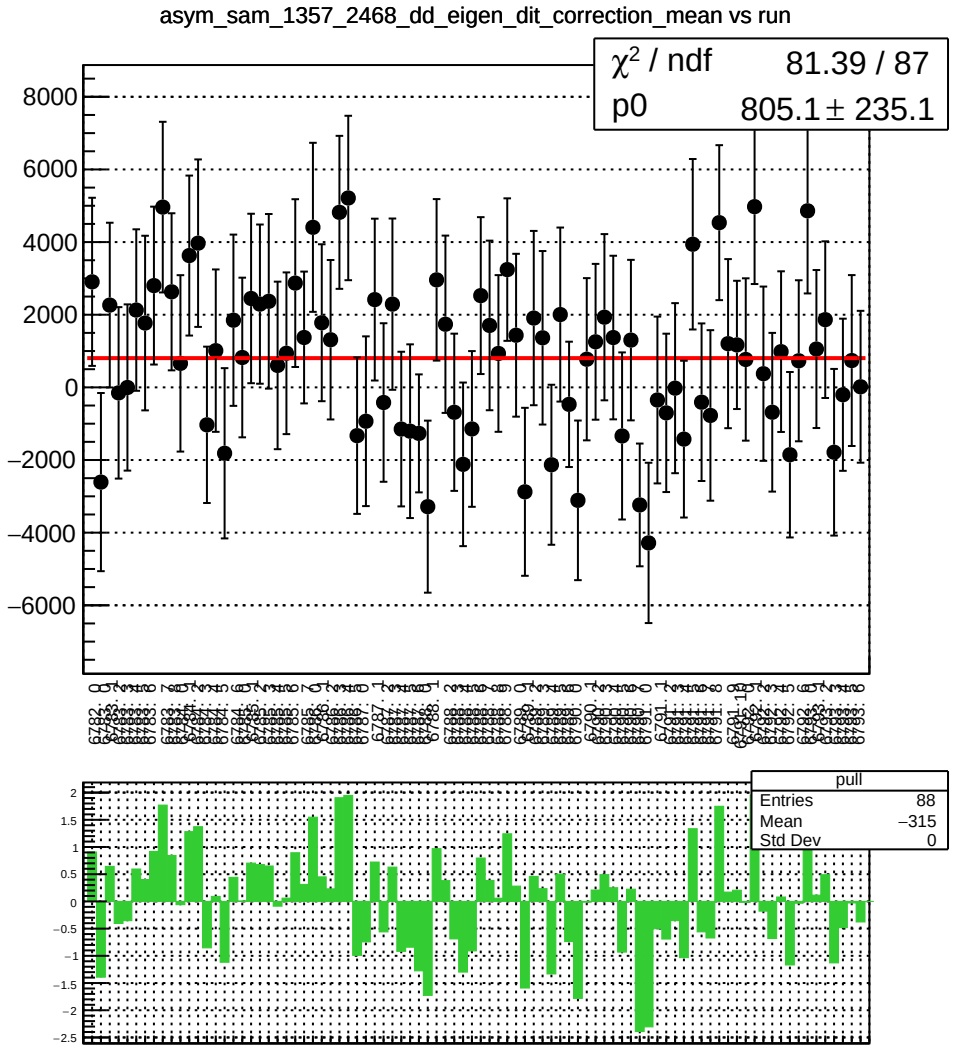

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 81.39 / 87
p0 805.1 ± 235.1
pull
Entries 88
Mean −315
Std Dev 0

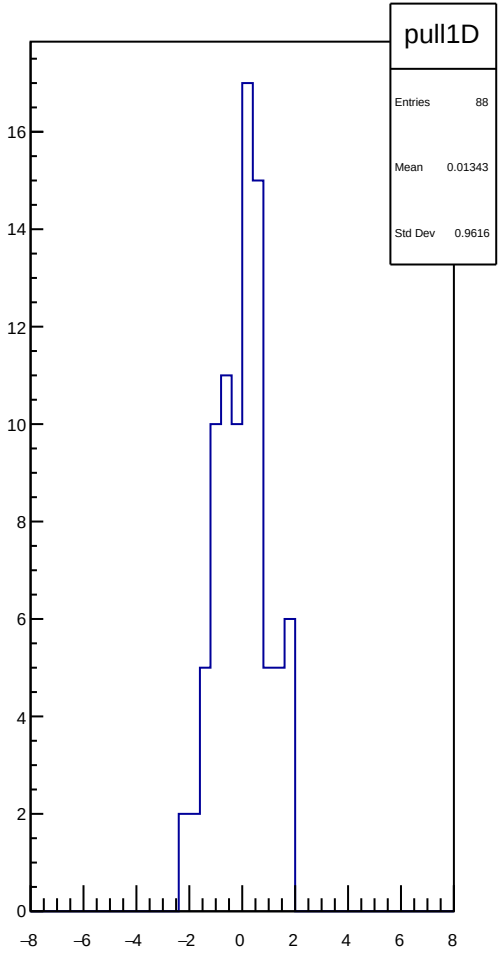

pull1D
Entries 88
Mean 0.01343
Std Dev 0.9616

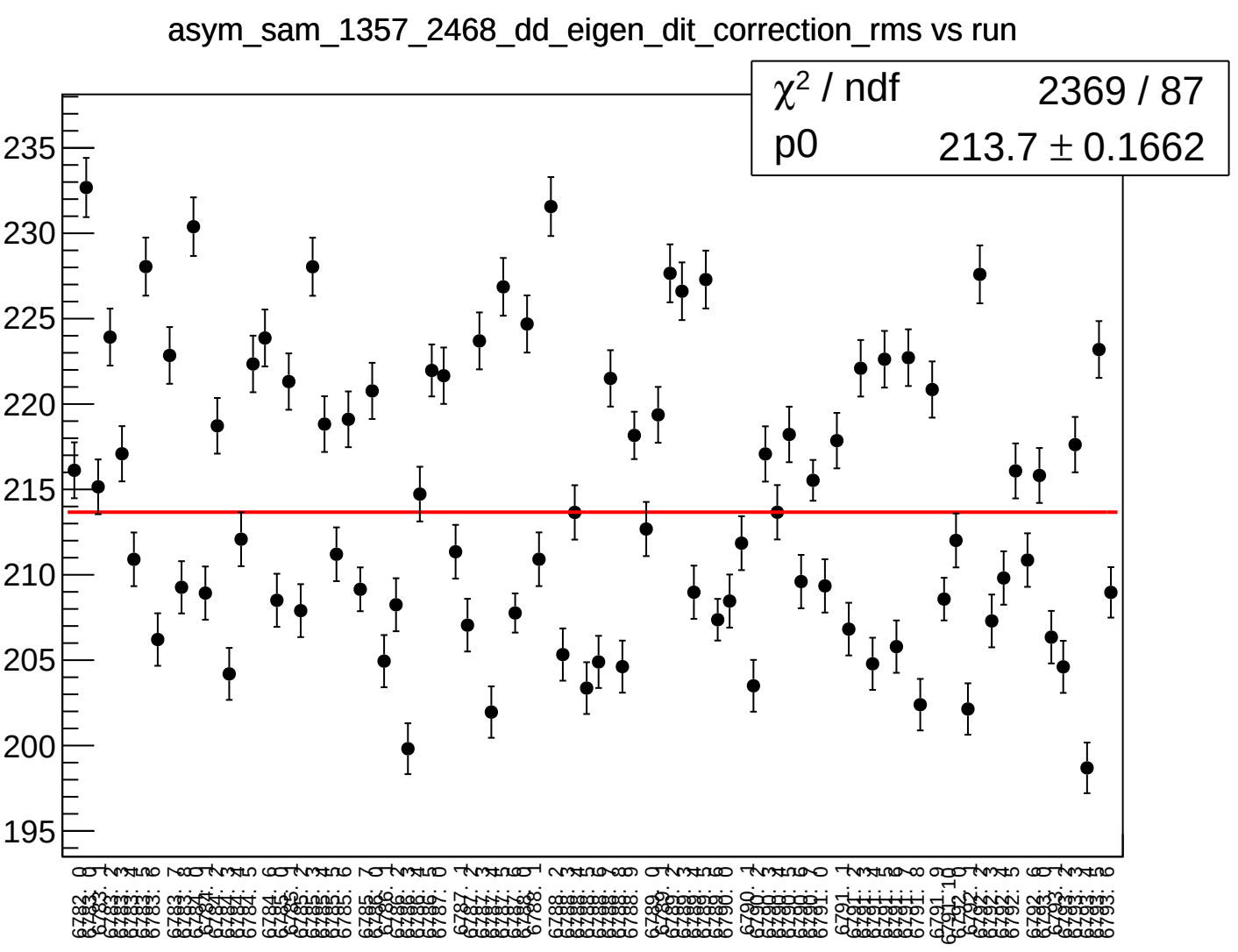

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2369 / 87
p0 213.7 ± 0.1662
235
230
225
220
215
210
205
200
195

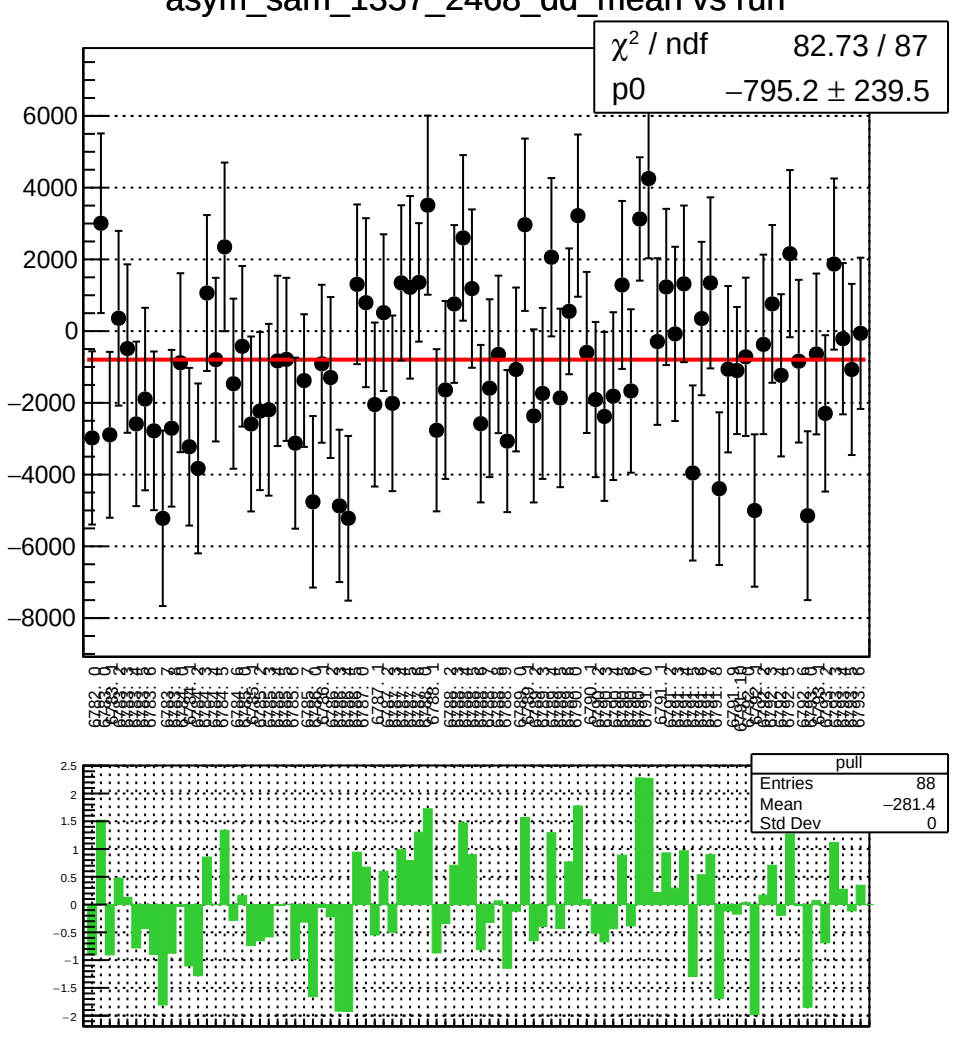

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 89.77 / 87
p0 10.73 ± 30.28
1000
500
0
−500
−1000
pull
Entries 88
Mean 756.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00379
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

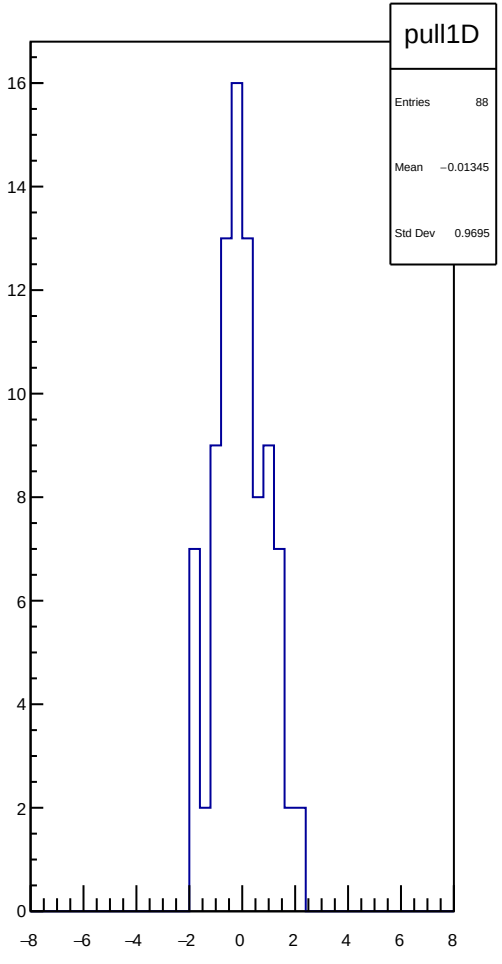

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3796 / 87
p0 27.51 ± 0.02141
34
32
30
28
26

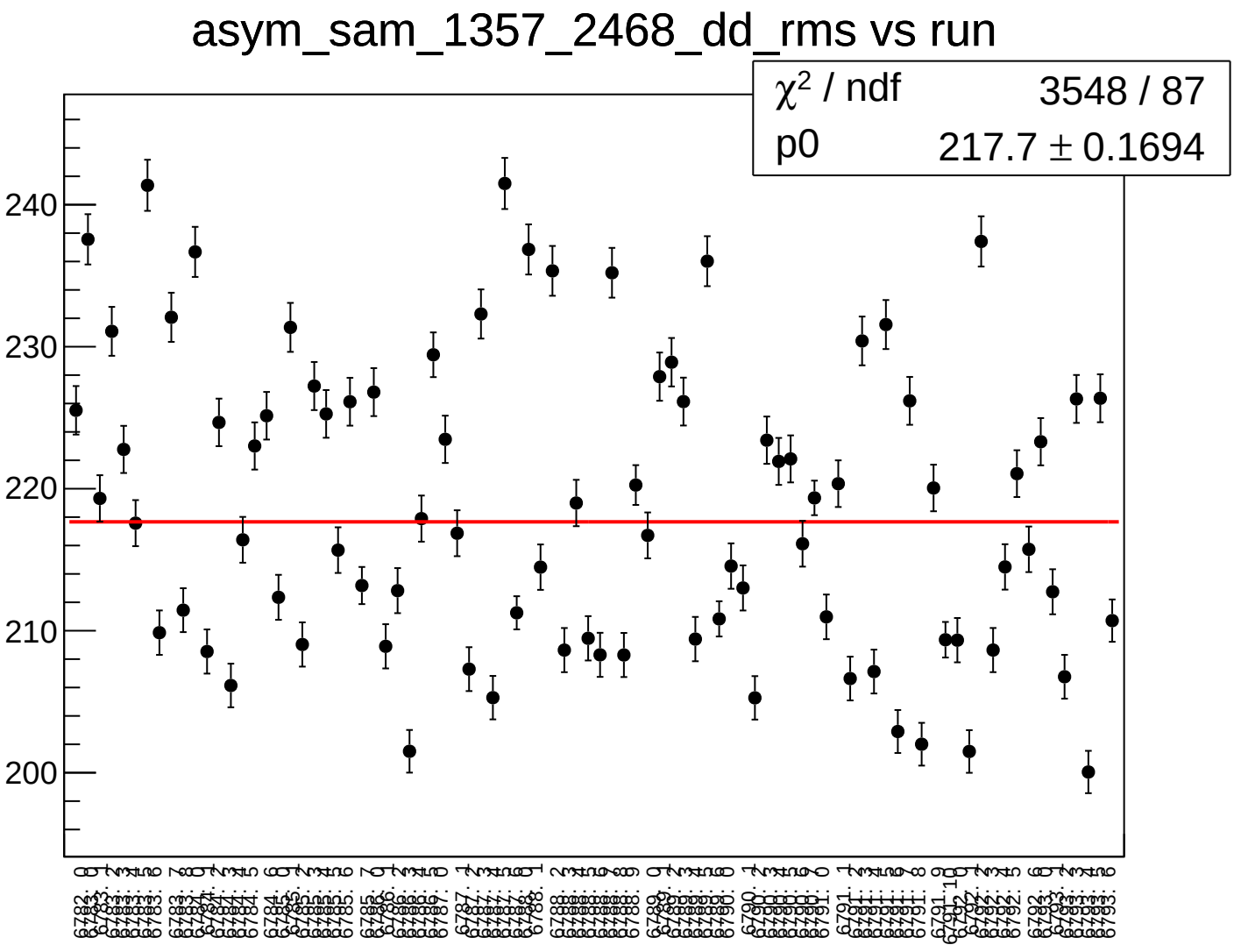

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.39 / 87
p0 805.1 ± 235.1
pull
Entries 88
Mean −315
Std Dev 0

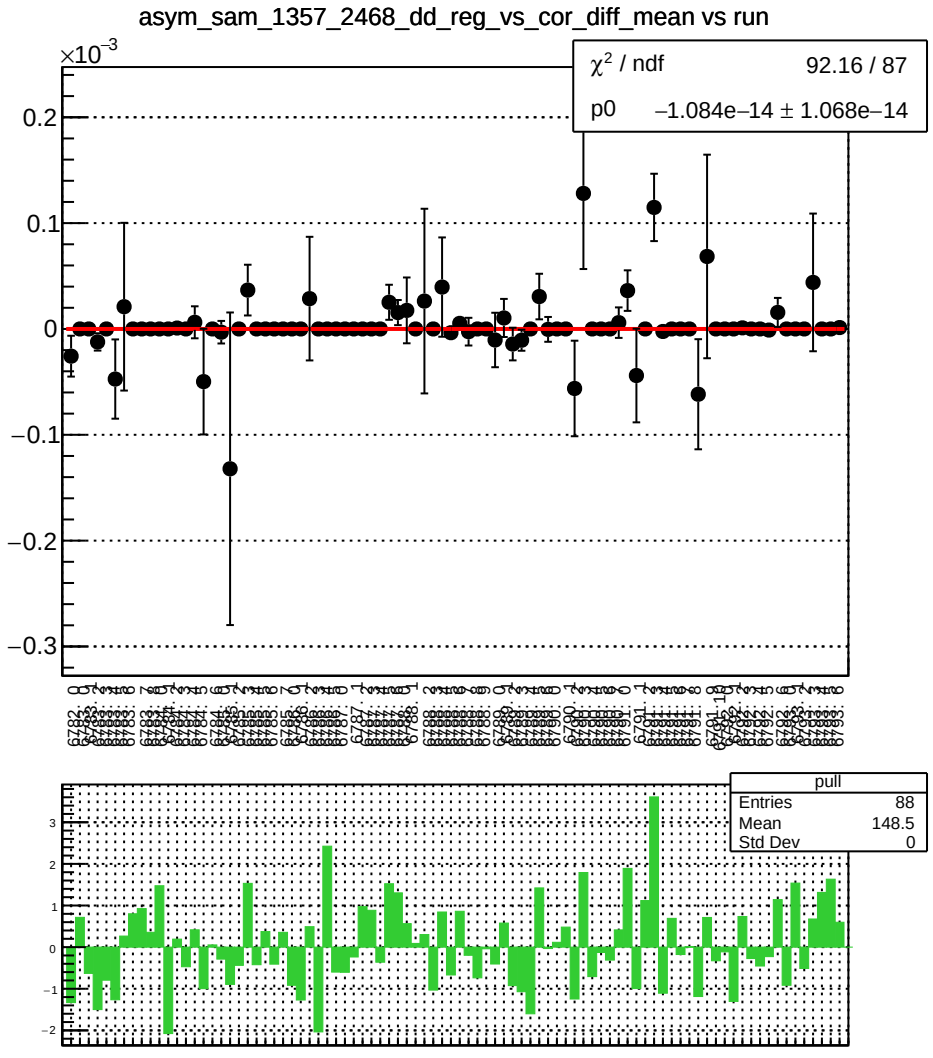

pull1D
Entries 88
Mean 0.01343
Std Dev 0.9616

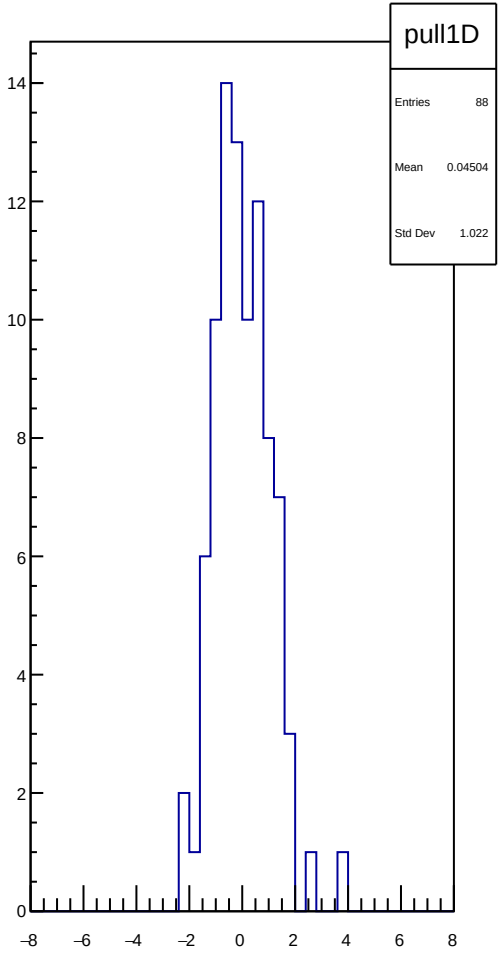

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2369 / 87
p0 213.7 ± 0.1662
235
230
225
220
215
210
205
200
195

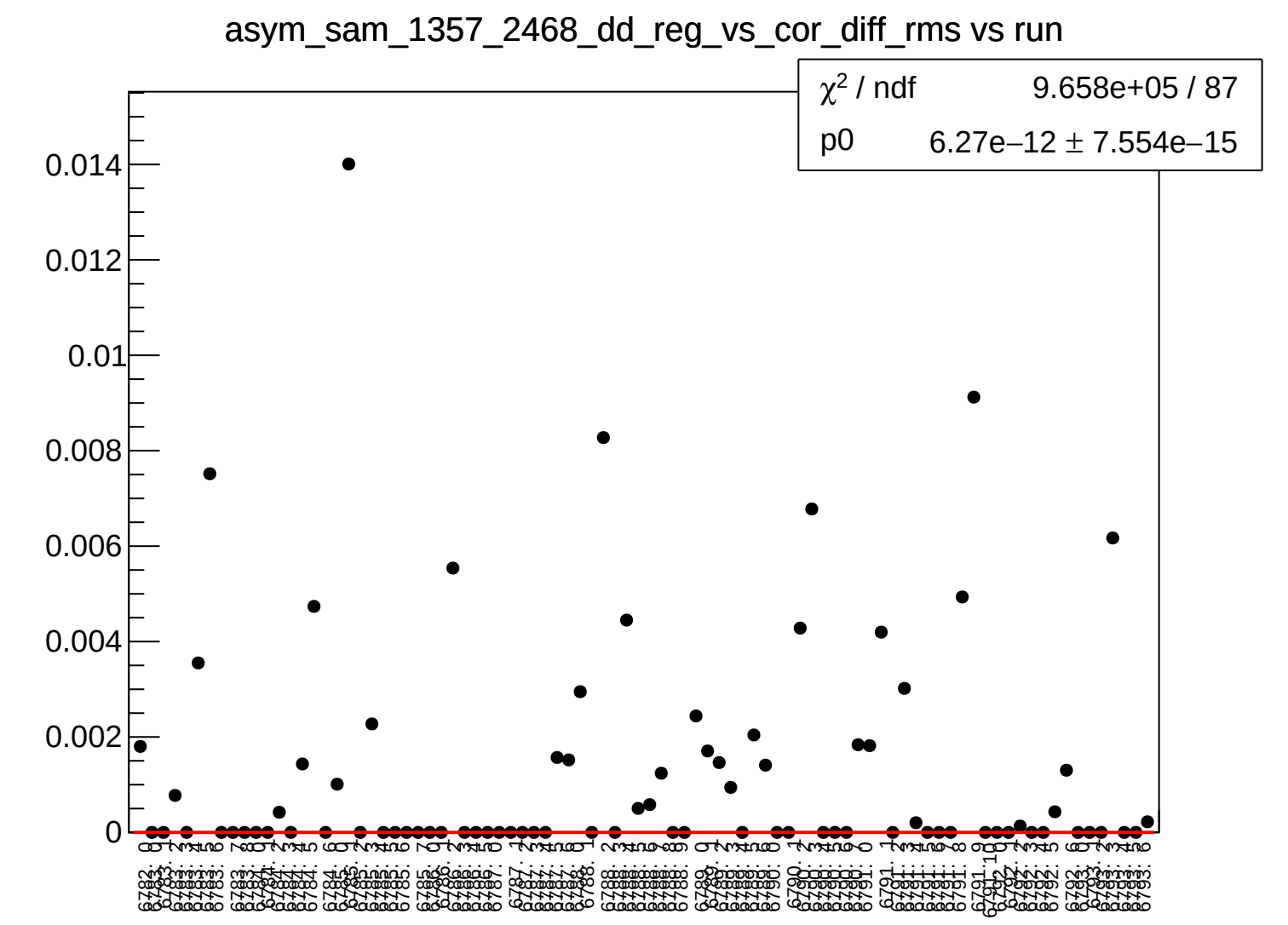

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.73 / 87
p0 −795.2 ± 239.5
pull
Entries 88
Mean −281.4
Std Dev 0

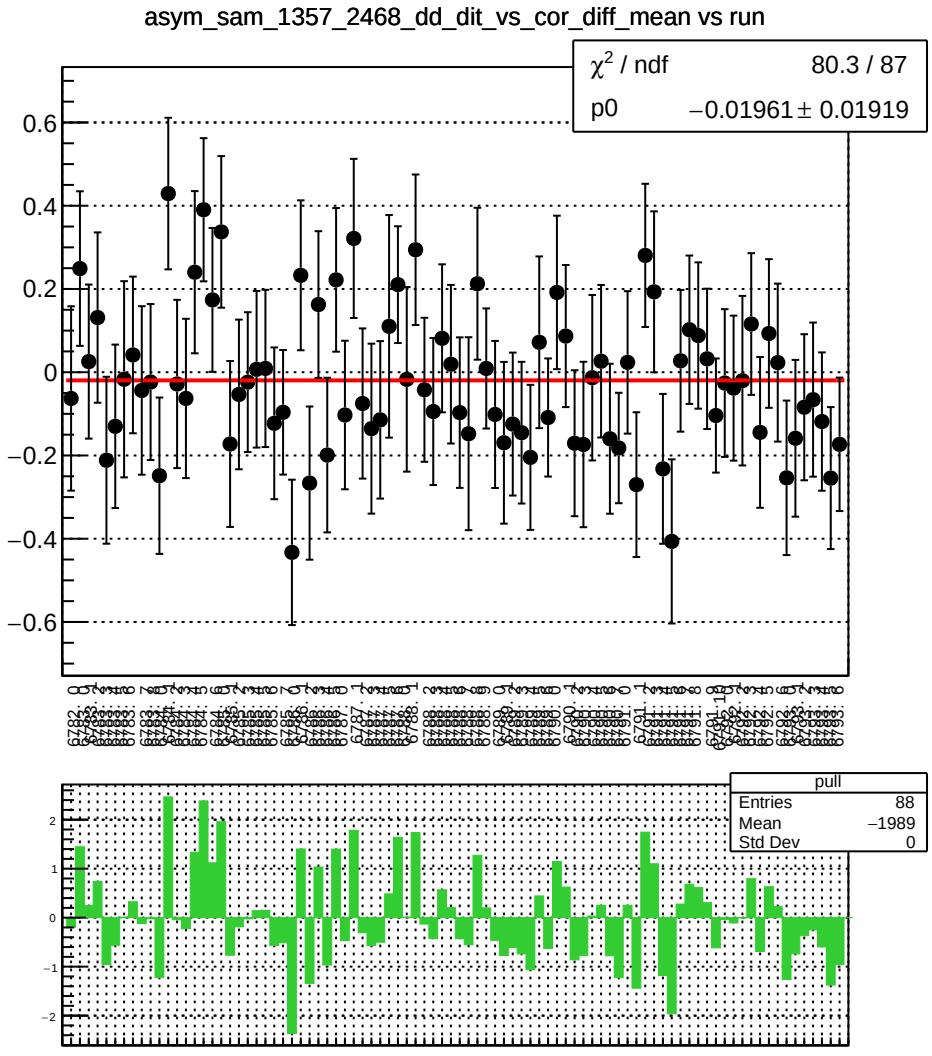

pull1D
Entries 88
Mean −0.01345
Std Dev 0.9695

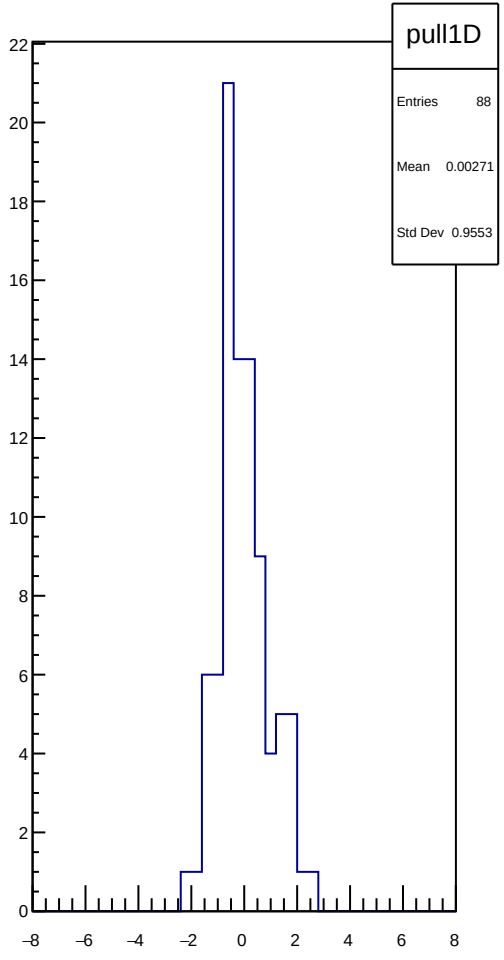

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3548 / 87
p0 217.7 ± 0.1694
240
230
220
210
200

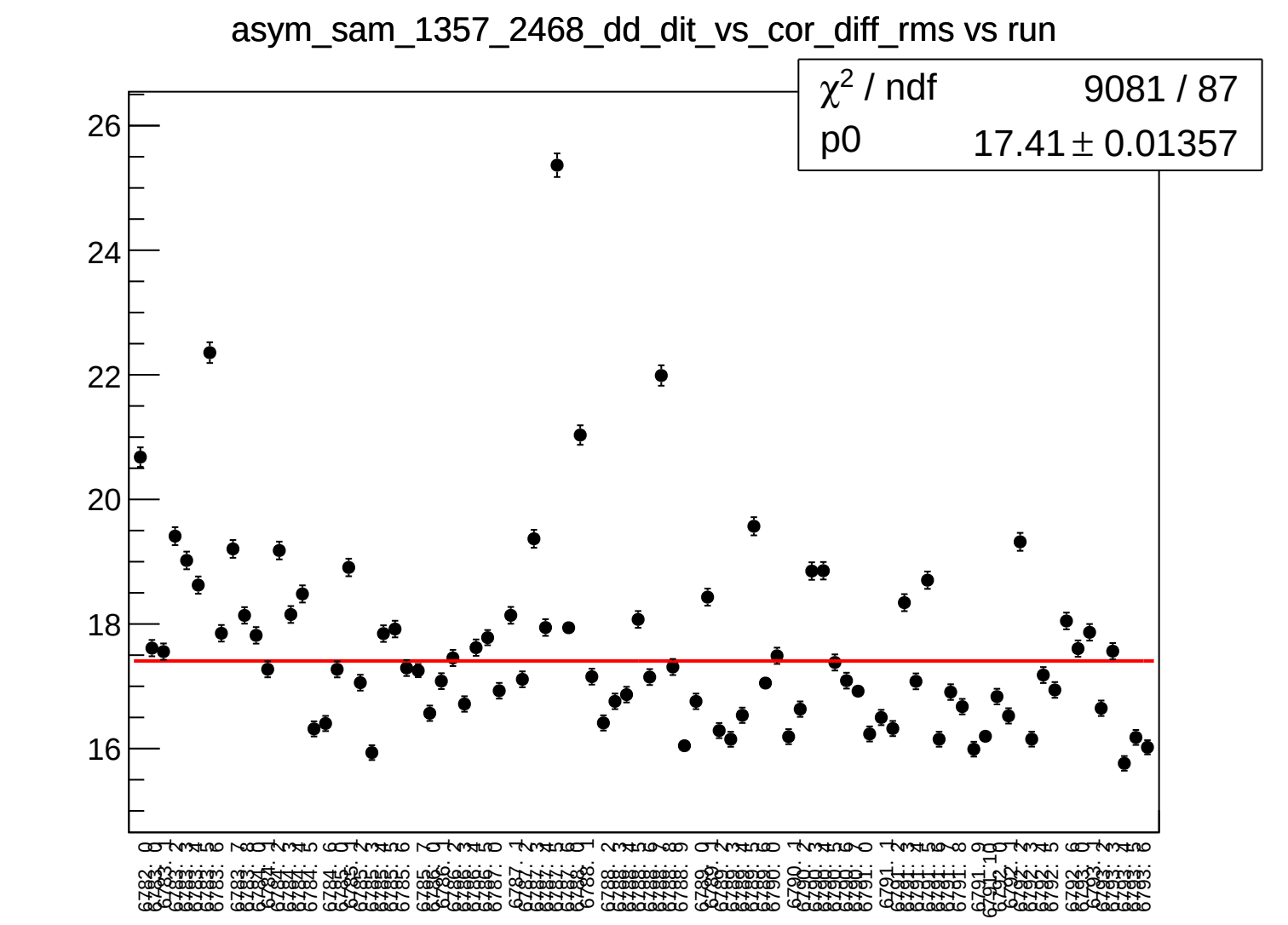

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 92.16 / 87
p0 −1.084e−14 ± 1.068e−14
pull
Entries 88
Mean 148.5
Std Dev 0

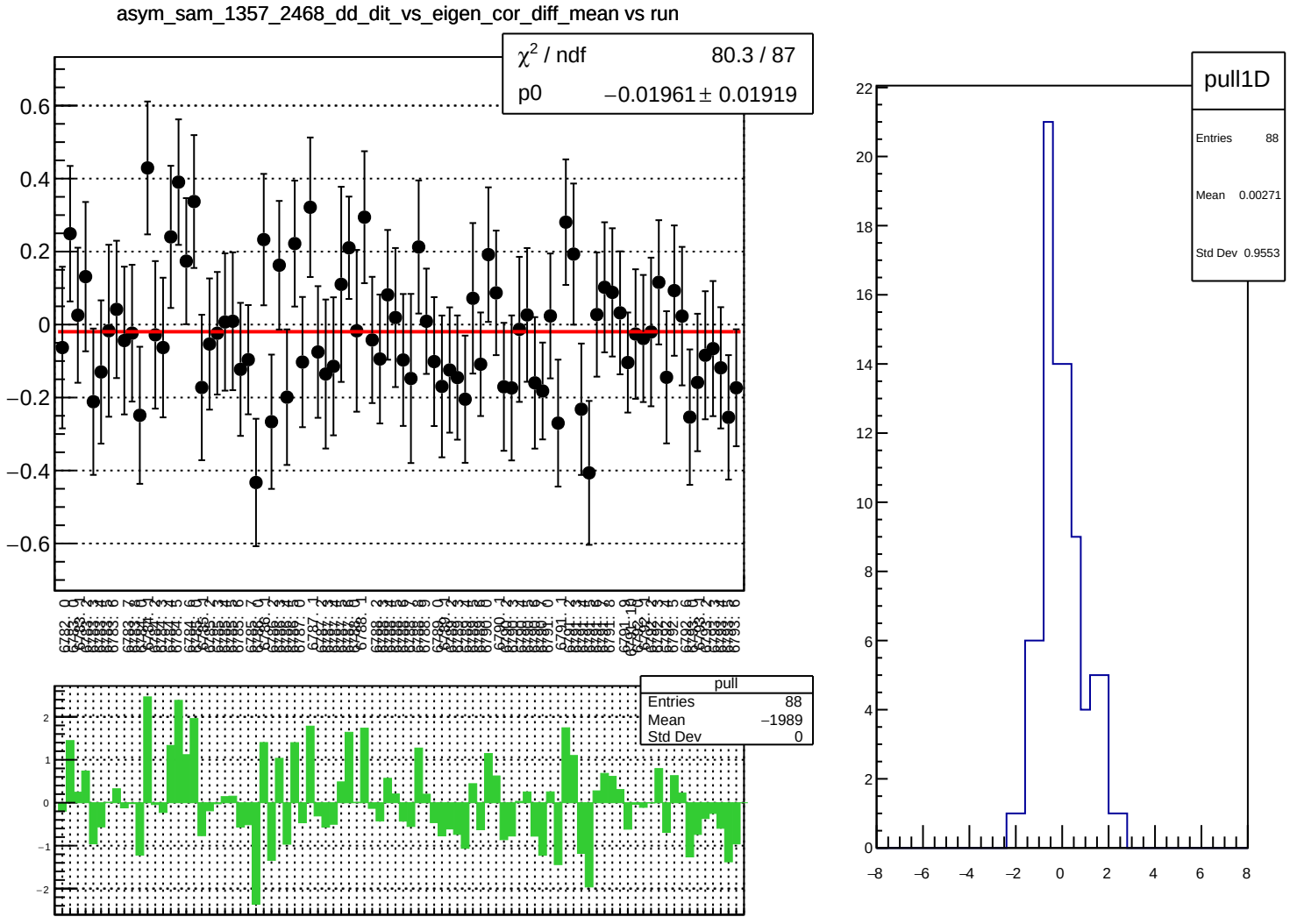

pull1D
Entries 88
Mean 0.04504
Std Dev 1.022

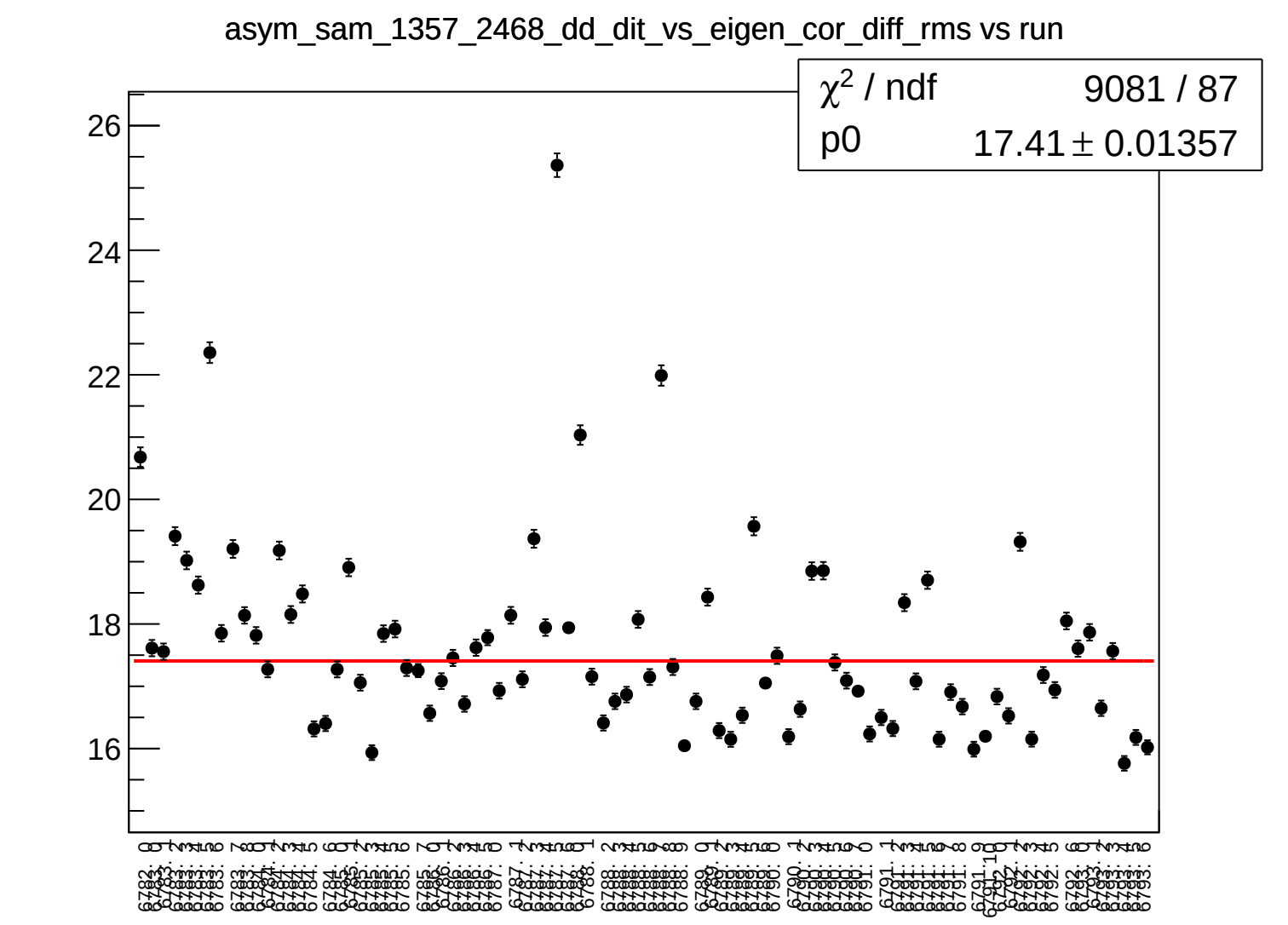

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.658e+05 / 87
p0 6.27e−12 ± 7.554e−15
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

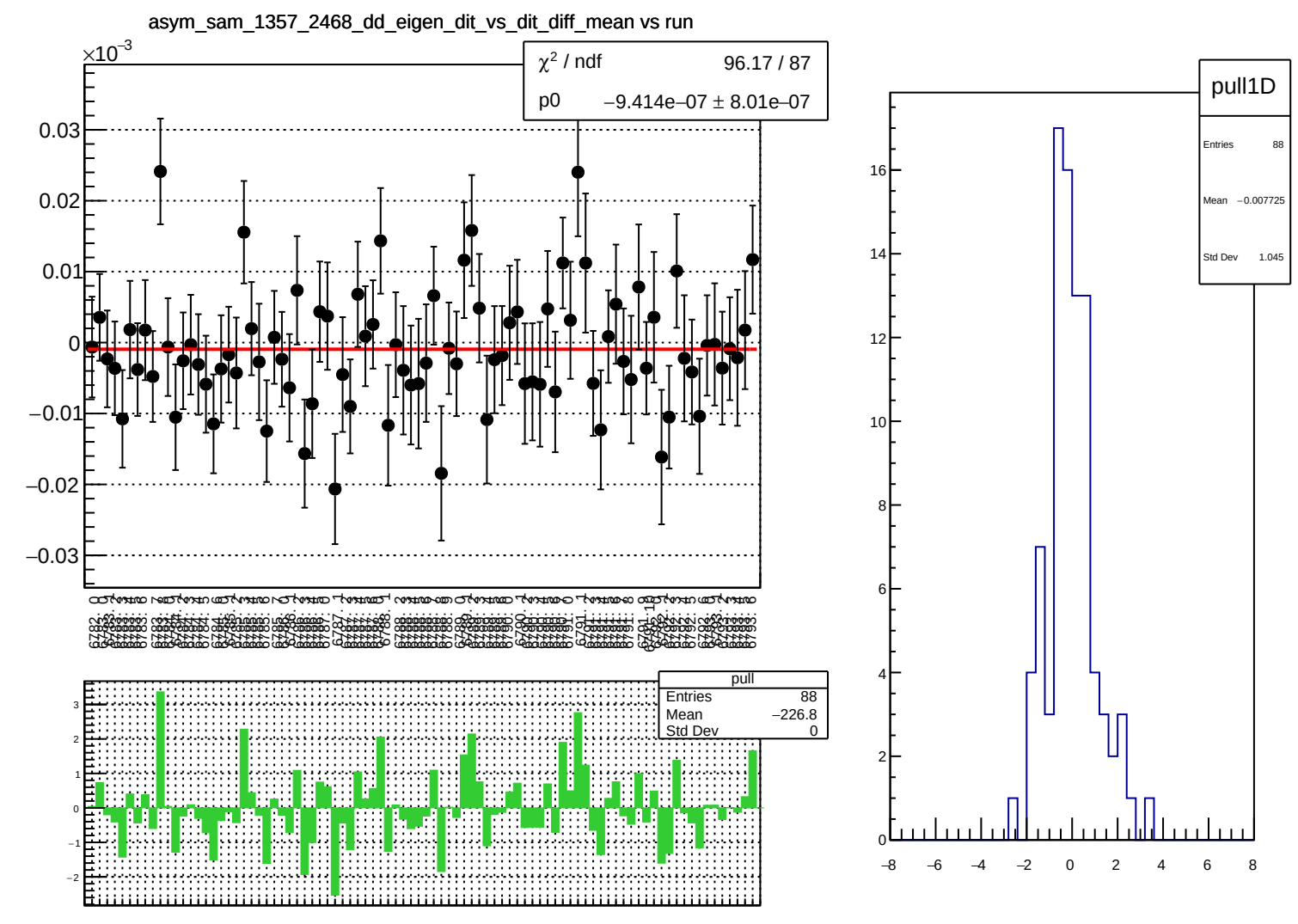

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.3 / 87
p0 −0.01961 ± 0.01919
pull
Entries 88
Mean −1989
Std Dev 0

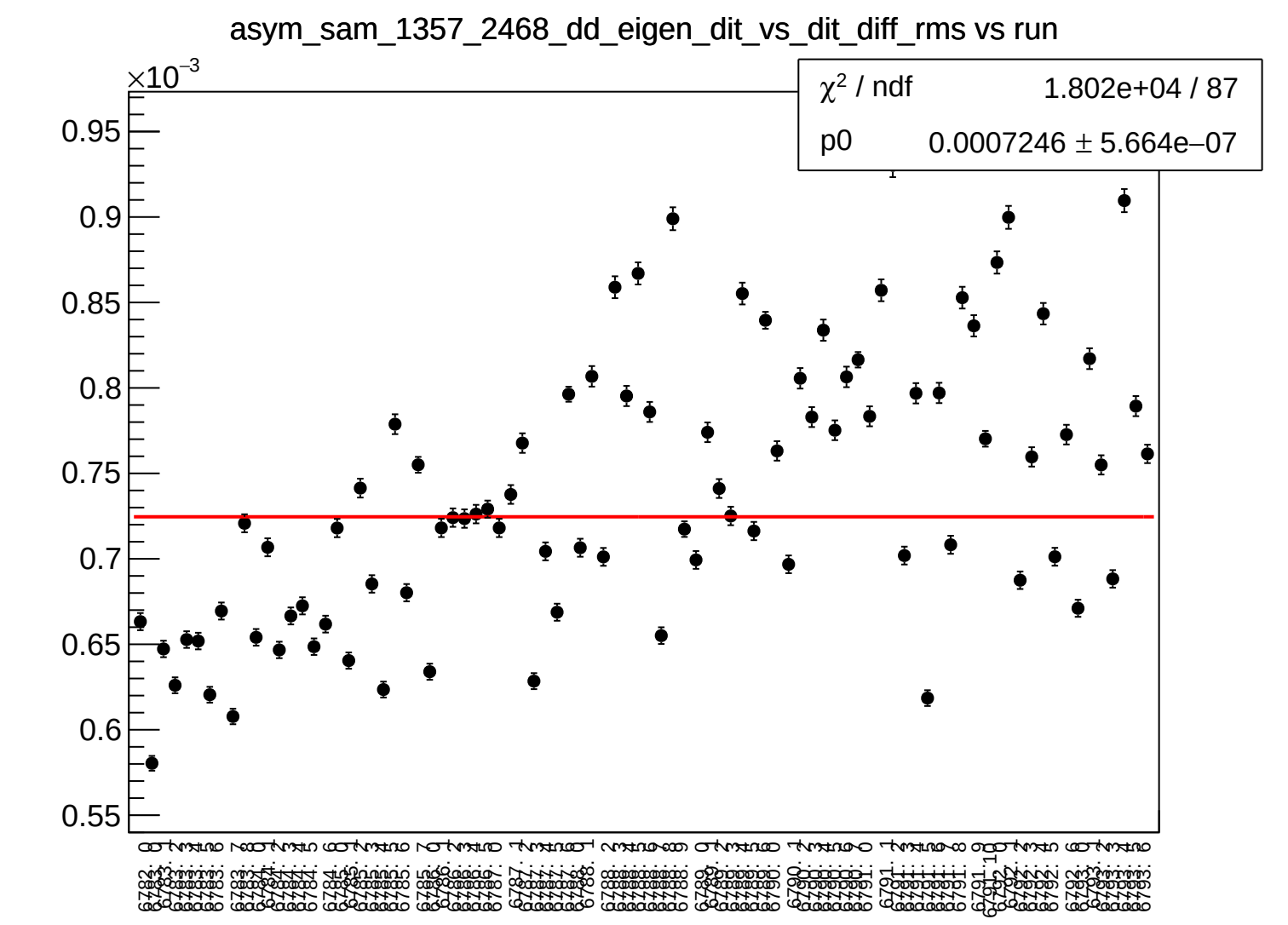

pull1D
Entries 88
Mean 0.00271
Std Dev 0.9553

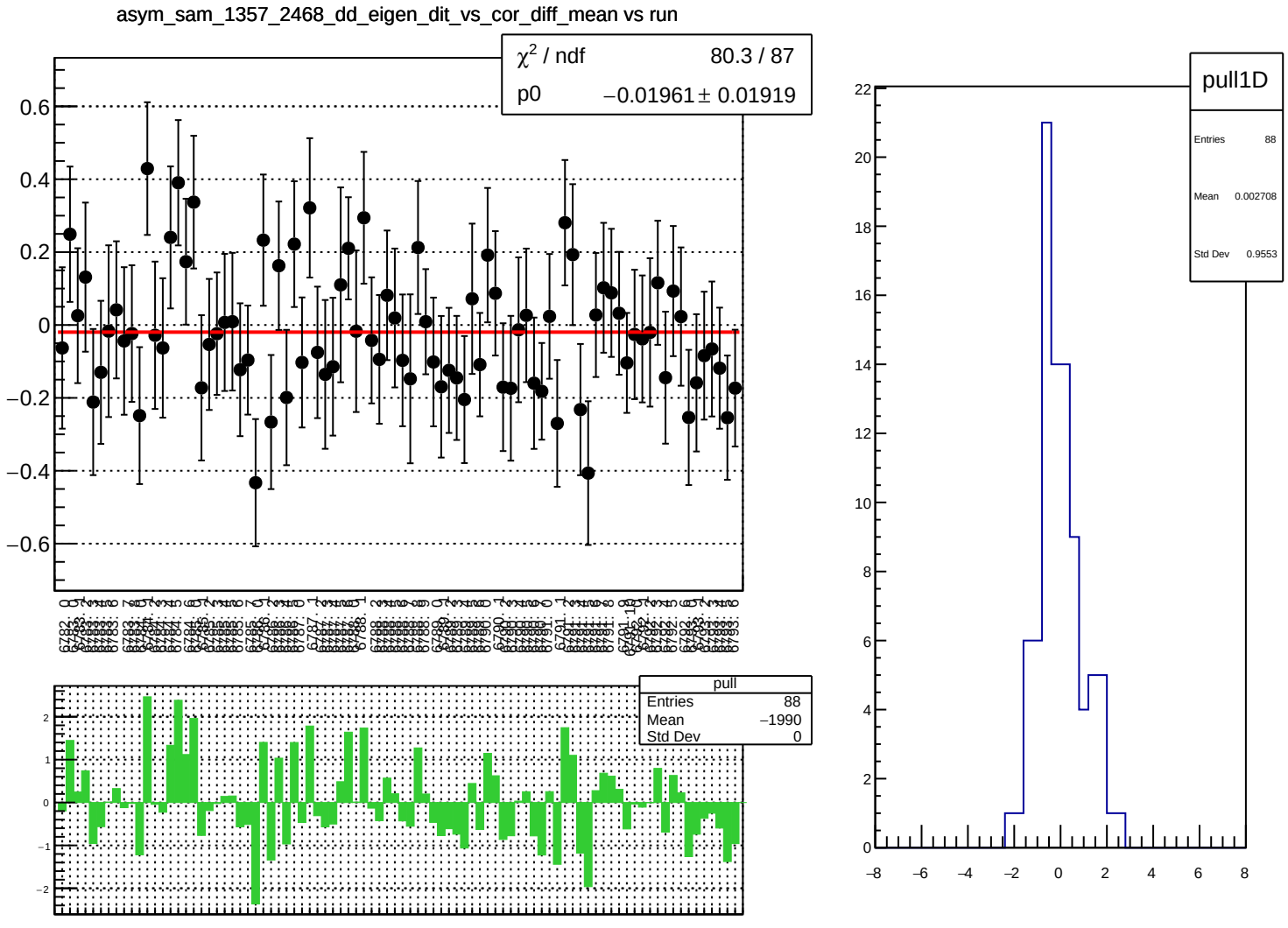

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9081 / 87
p0 17.41 ± 0.01357
26
24
22
20
18
16

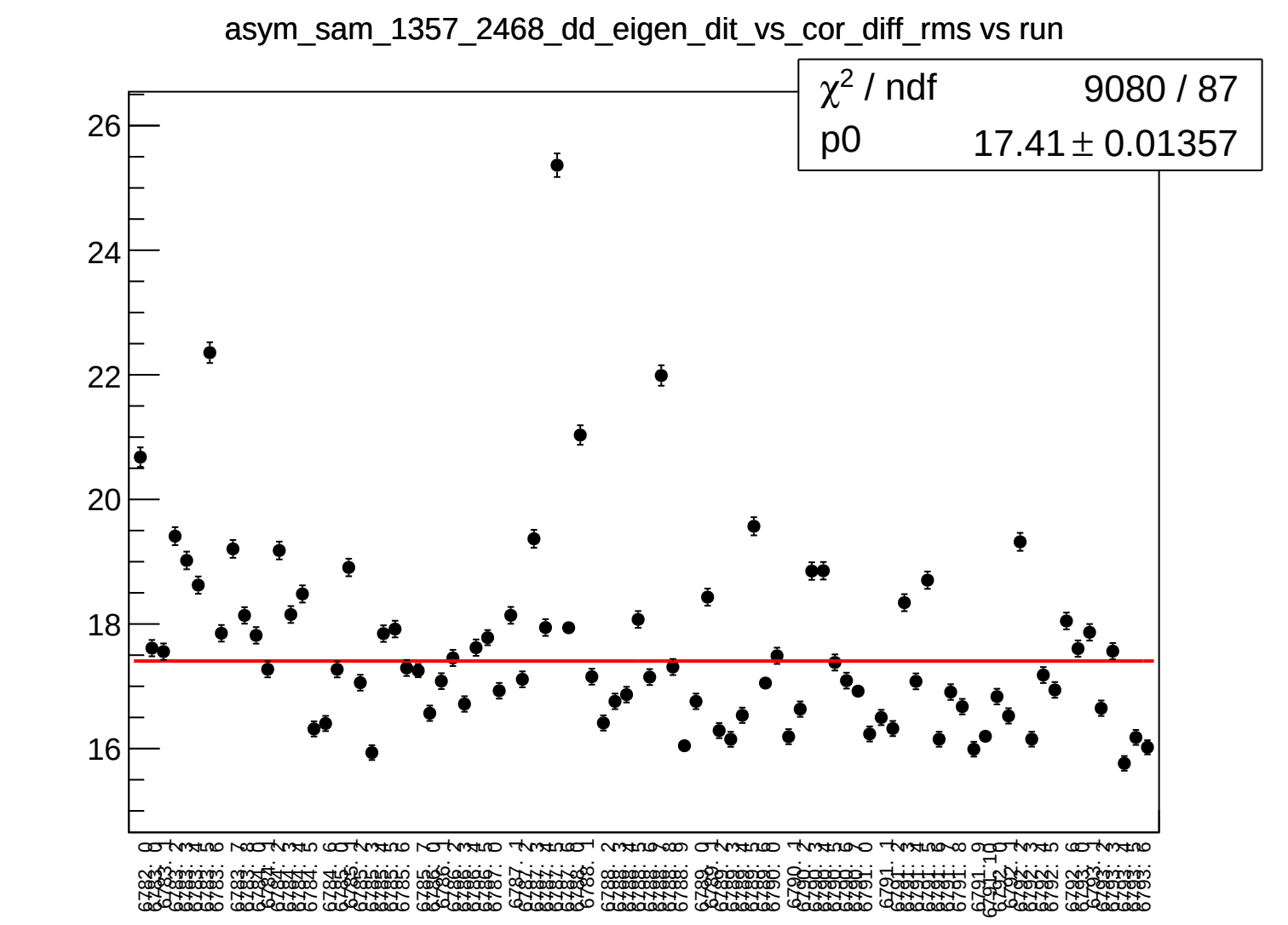

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.3 / 87
p0 −0.01961 ± 0.01919
pull
Entries 88
Mean −1989
Std Dev 0
pull1D
Entries 88
Mean 0.00271
Std Dev 0.9553

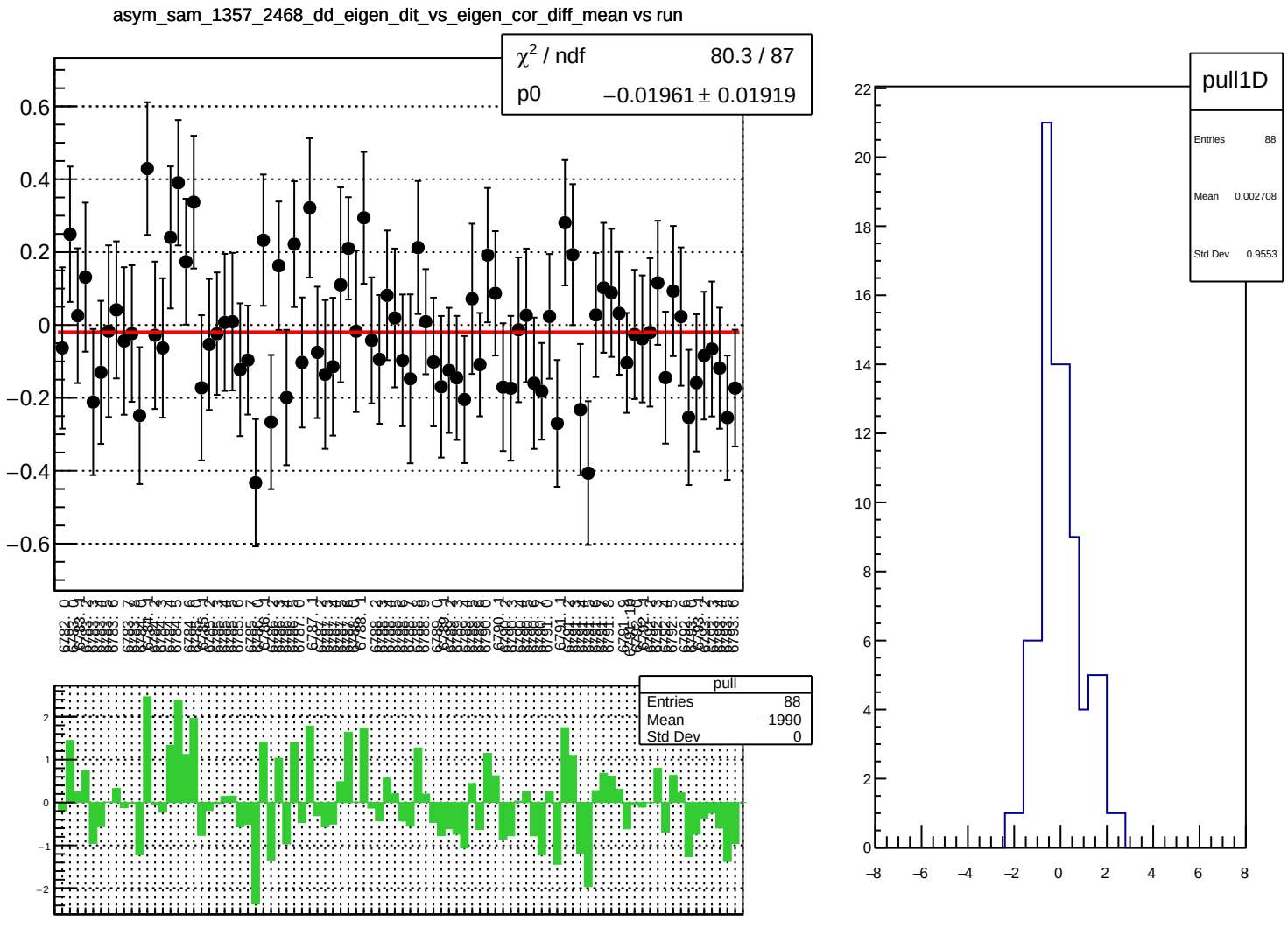

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9081 / 87
p0 17.41 ± 0.01357
26
24
22
20
18
16

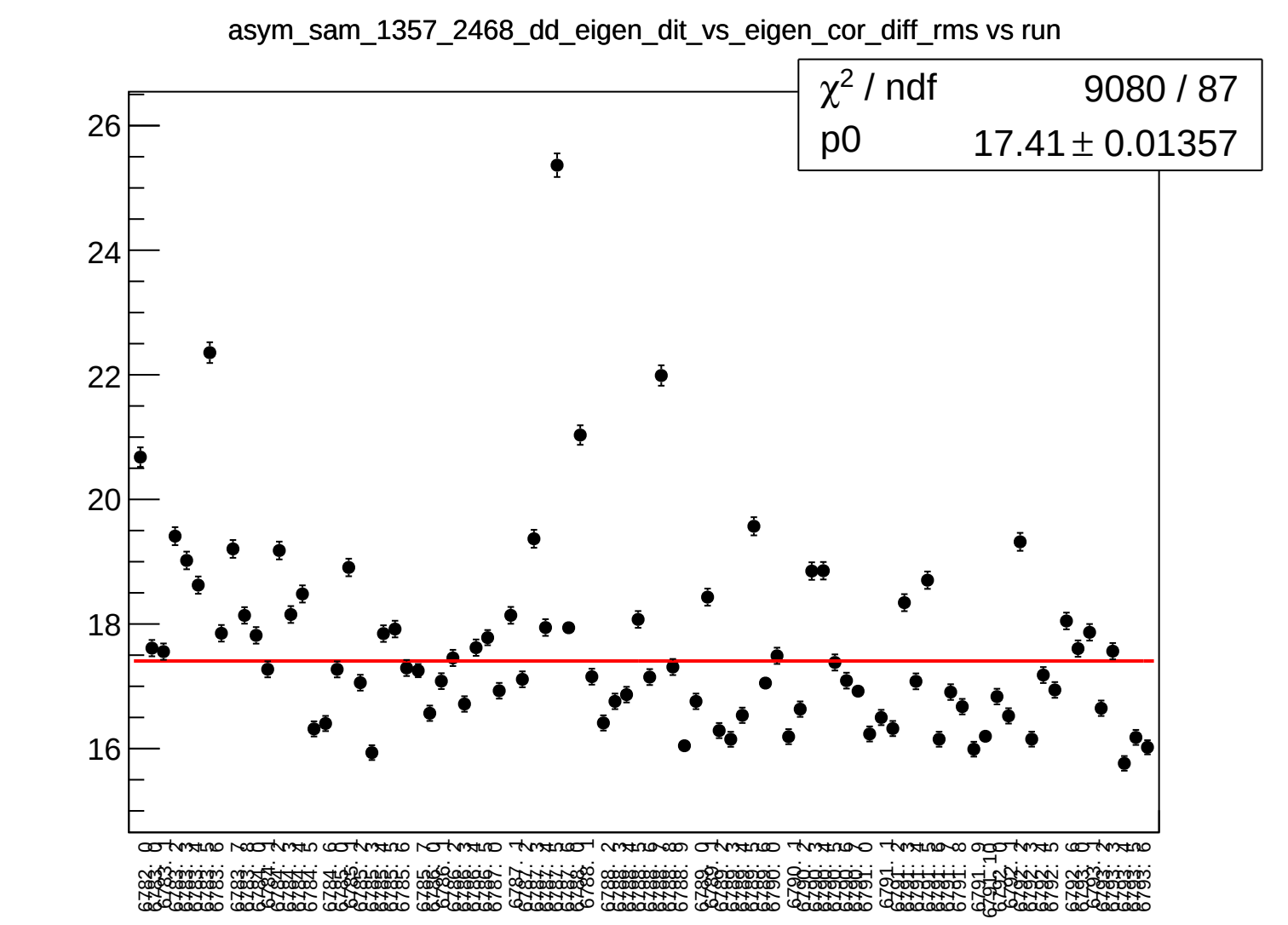

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.17 / 87
p0 −9.414e−07 ± 8.01e−07
pull
Entries 88
Mean −226.8
Std Dev 0
pull1D
Entries 88
Mean −0.007725
Std Dev 1.045

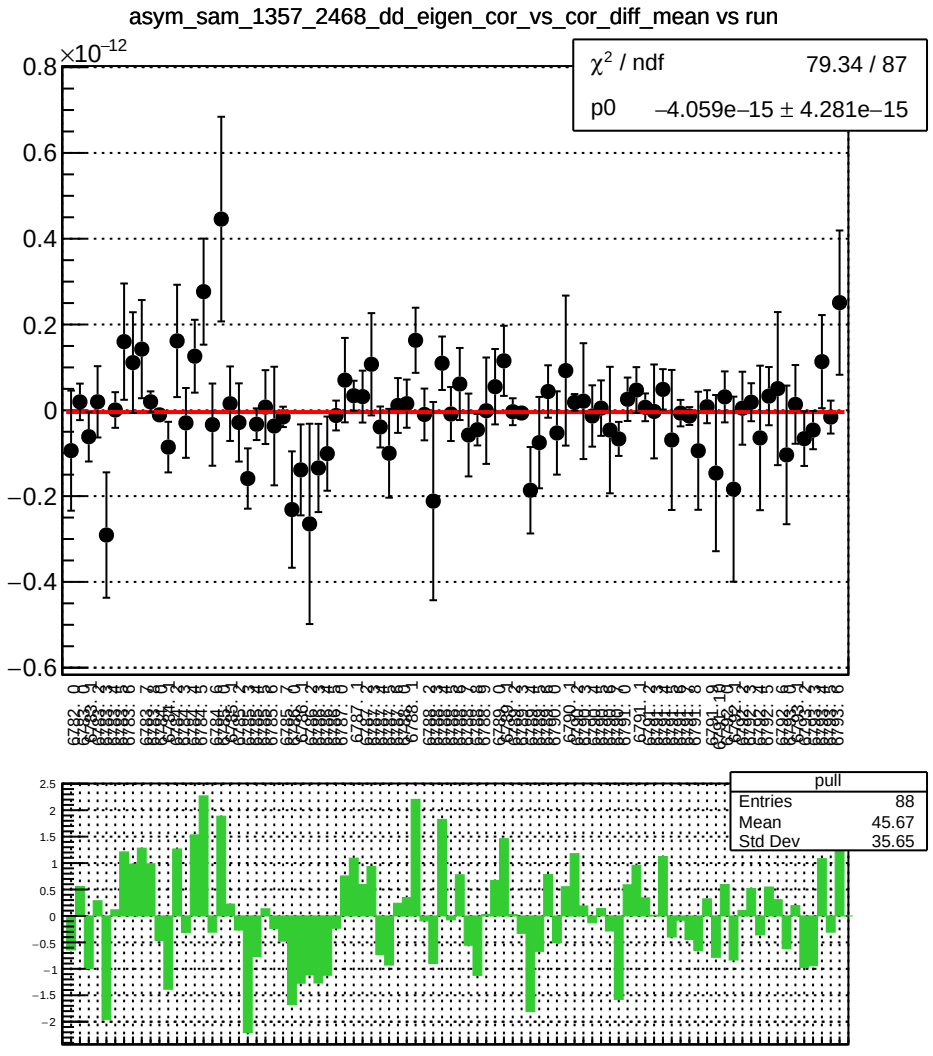

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.802e+04 / 87
p0 0.0007246 ± 5.664e−07
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

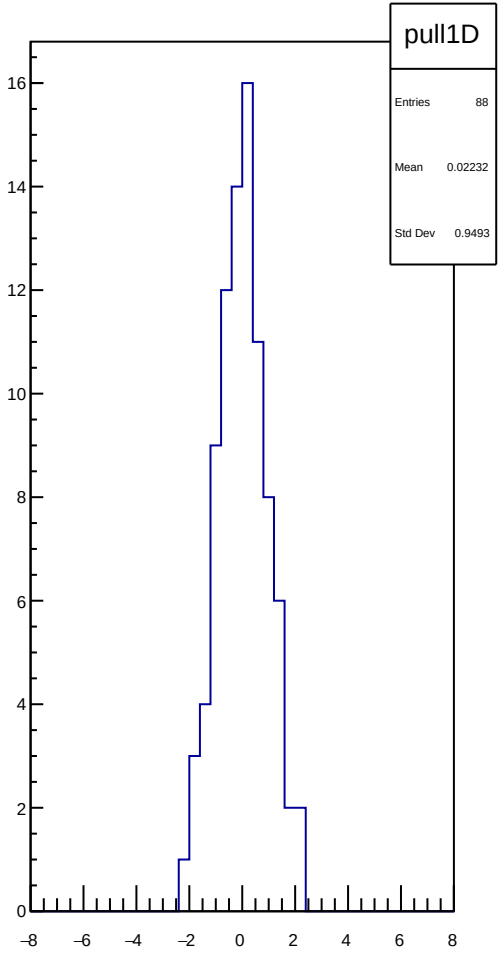

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.3 / 87
p0 −0.01961 ± 0.01919
pull
Entries 88
Mean −1990
Std Dev 0
pull1D
Entries 88
Mean 0.002708
Std Dev 0.9553

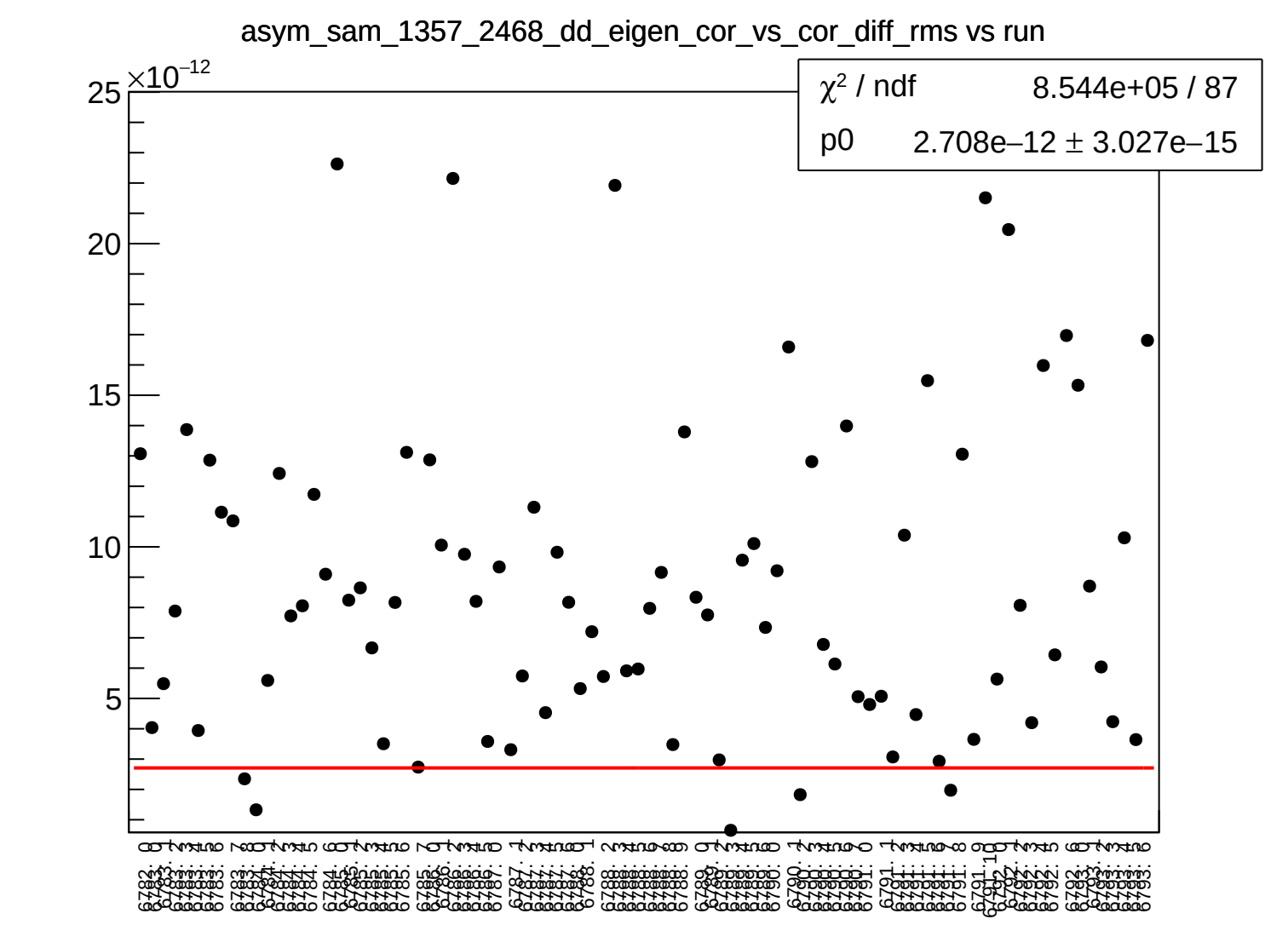

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9080 / 87
p0 17.41 ± 0.01357
26
24
22
20
18
16

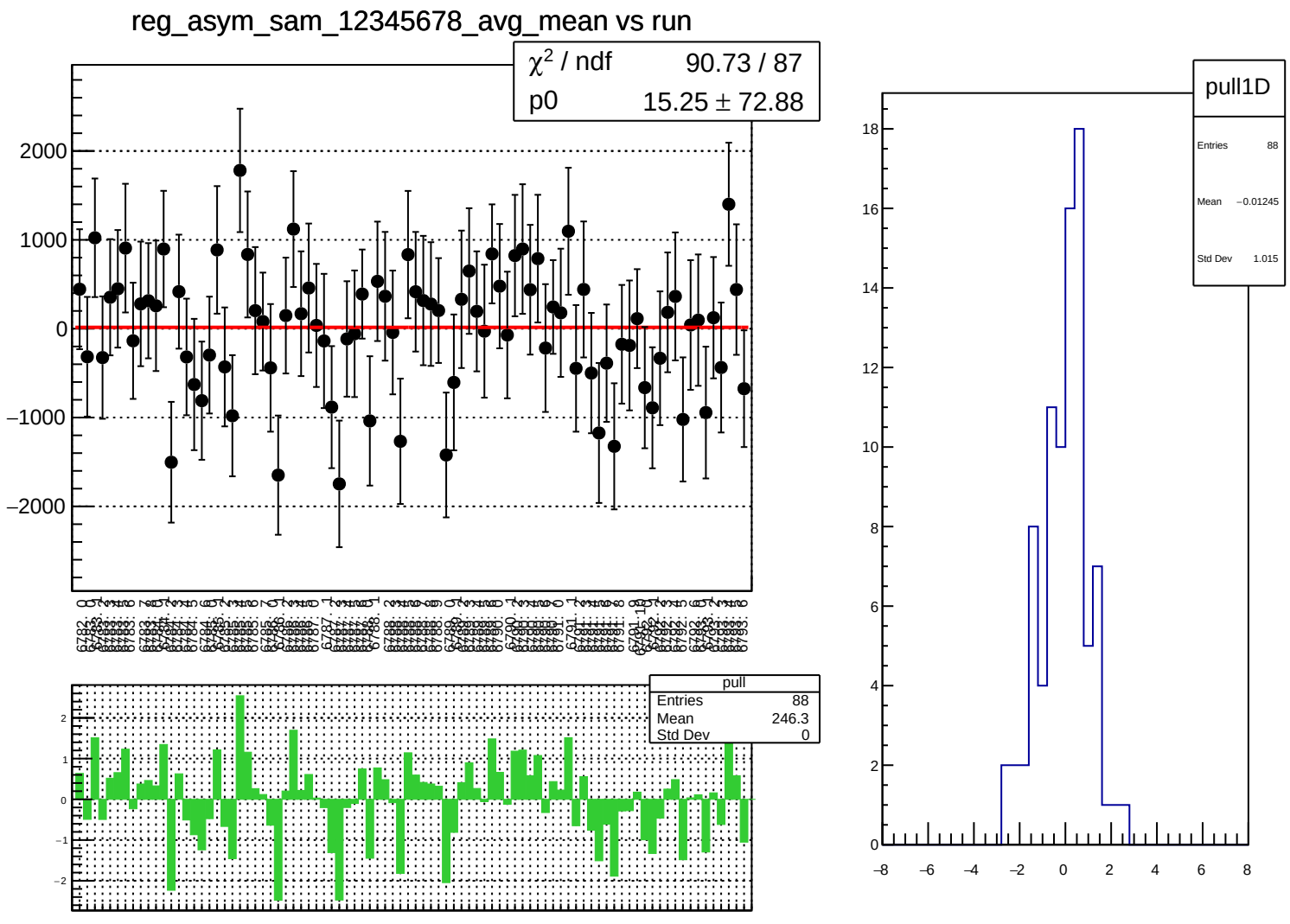

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.3 / 87
p0 −0.01961 ± 0.01919
pull
Entries 88
Mean −1990
Std Dev 0
pull1D
Entries 88
Mean 0.002708
Std Dev 0.9553

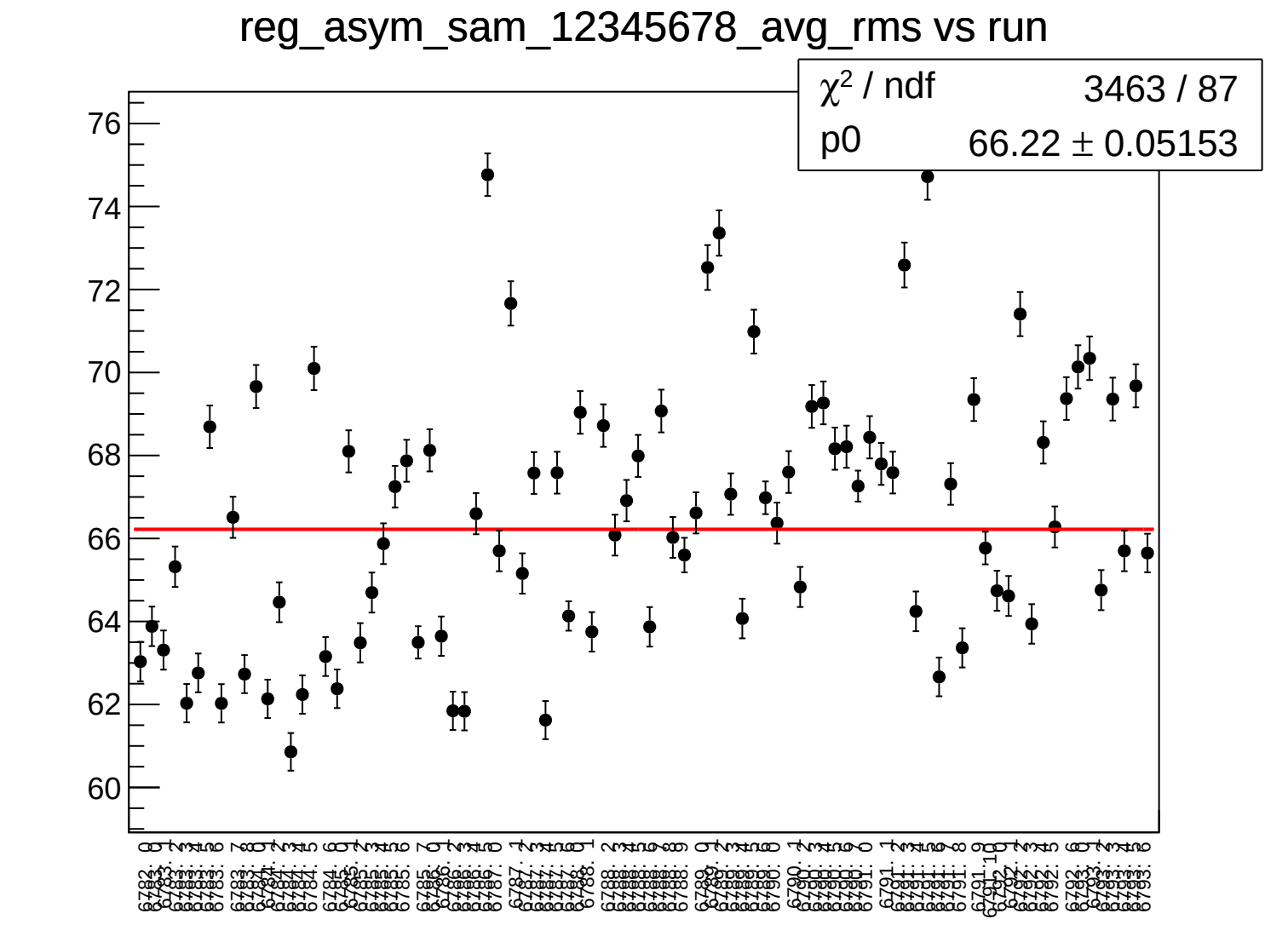

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9080 / 87
p0 17.41 ± 0.01357
26
24
22
20
18
16

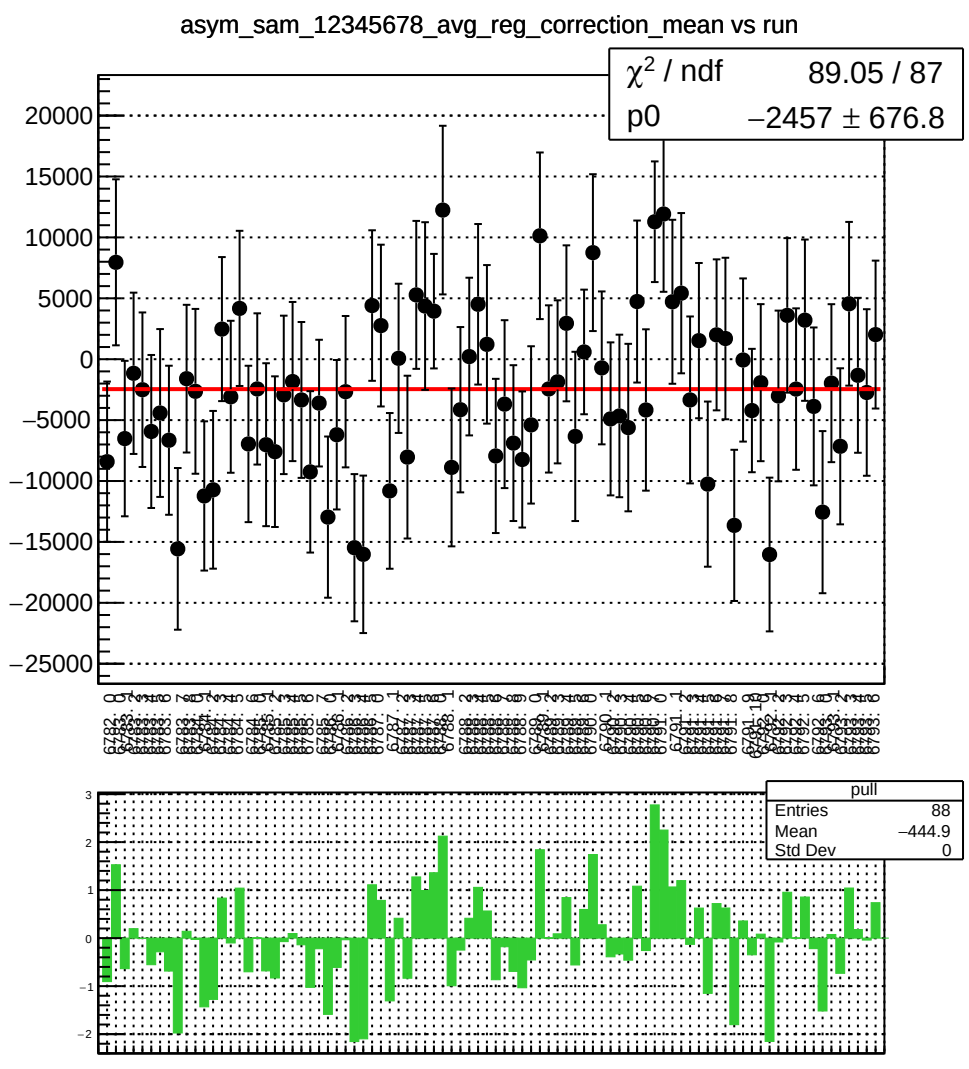

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.34 / 87
p0 −4.059e−15 ± 4.281e−15
pull
Entries 88
Mean 45.67
Std Dev 35.65

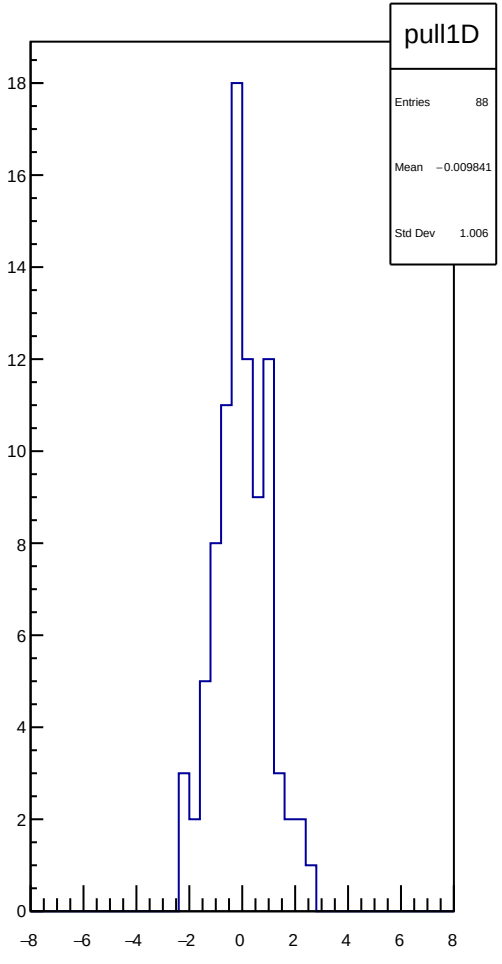

pull1D
Entries 88
Mean 0.02232
Std Dev 0.9493

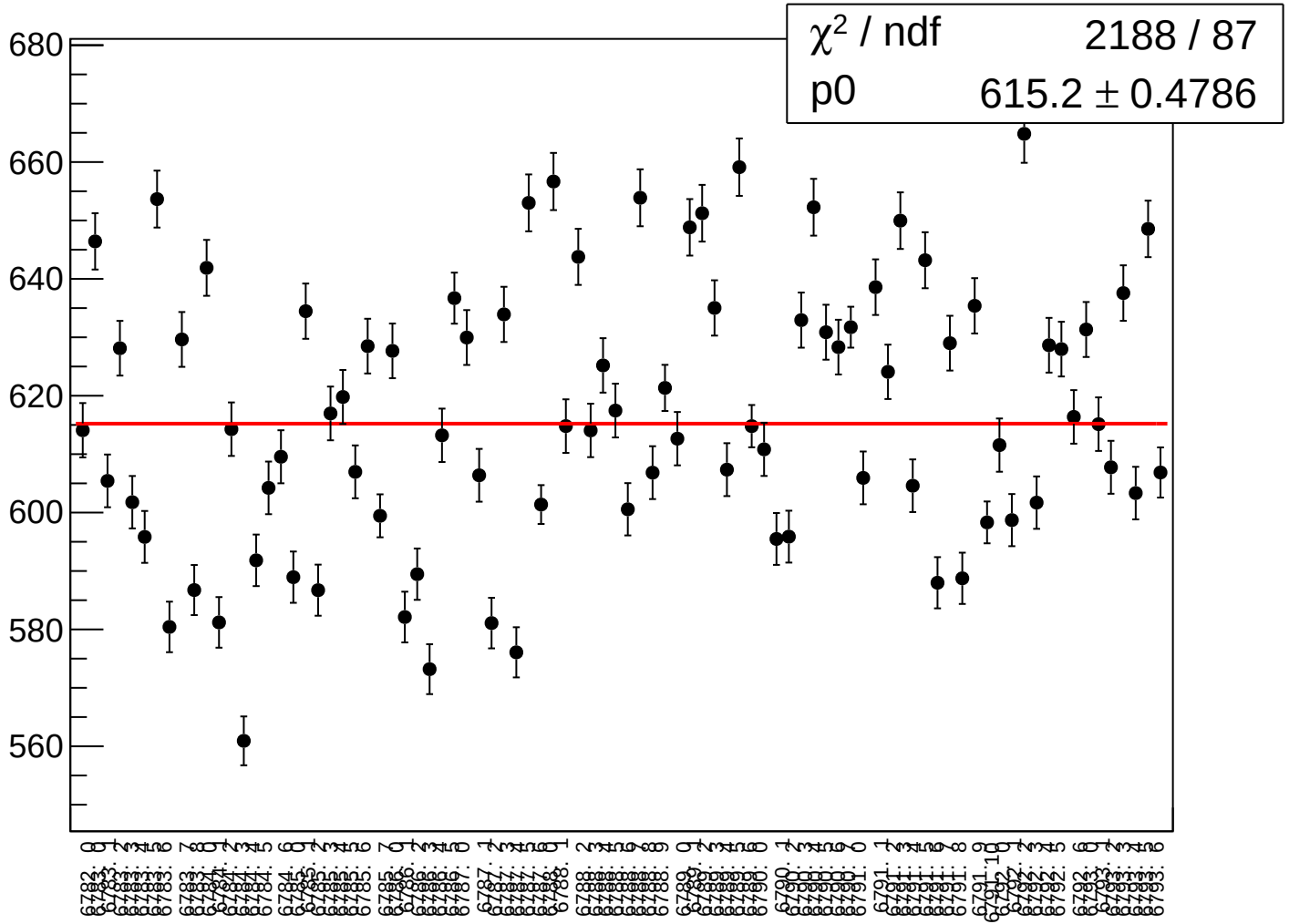

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
25
20
15
10
5
χ² / ndf 8.544e+05 / 87
p0 2.708e−12 ± 3.027e−15

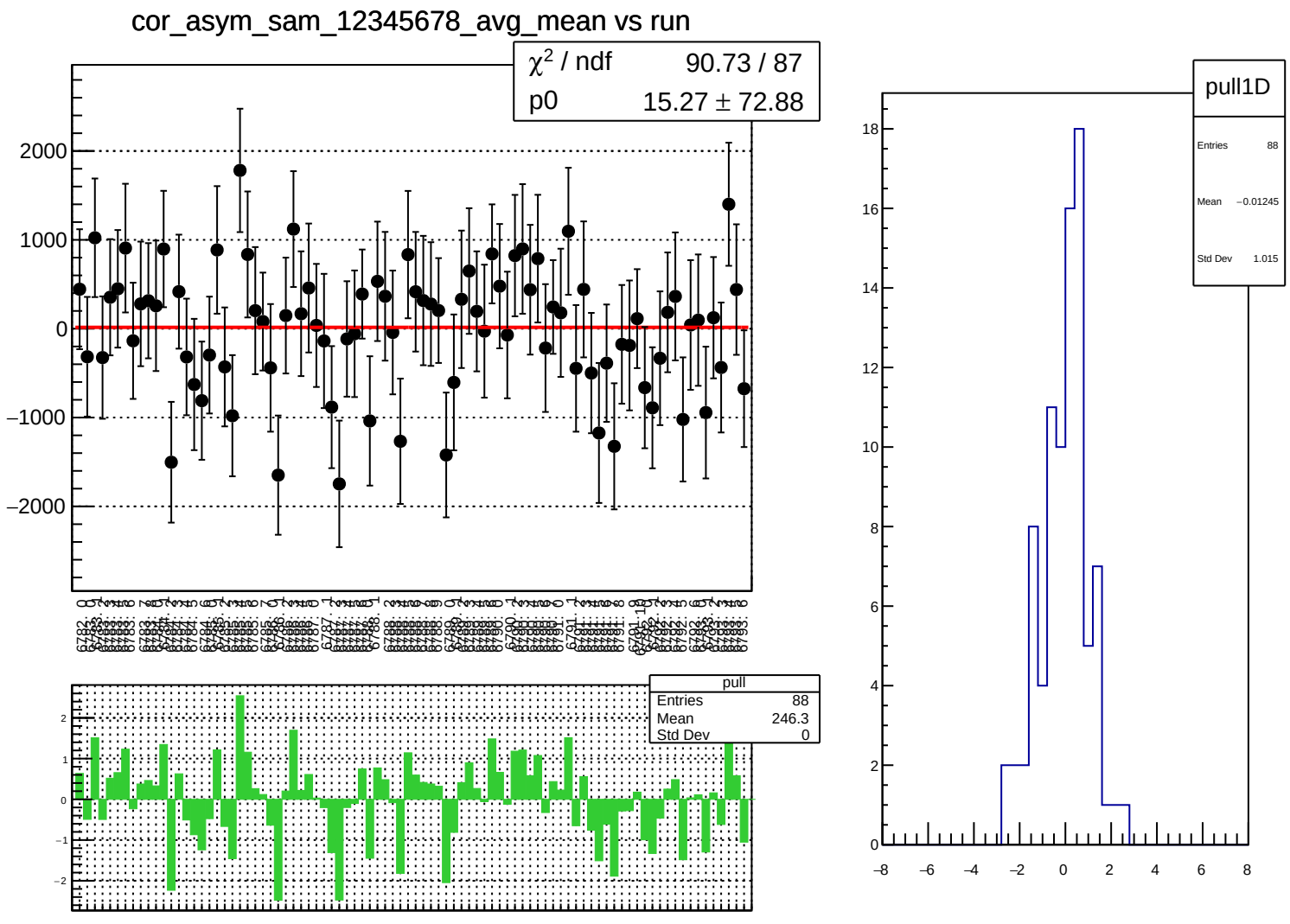

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 90.73 / 87
p0 15.25 ± 72.88
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 246.3
Std Dev 0
pull1D
Entries 88
Mean −0.01245
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

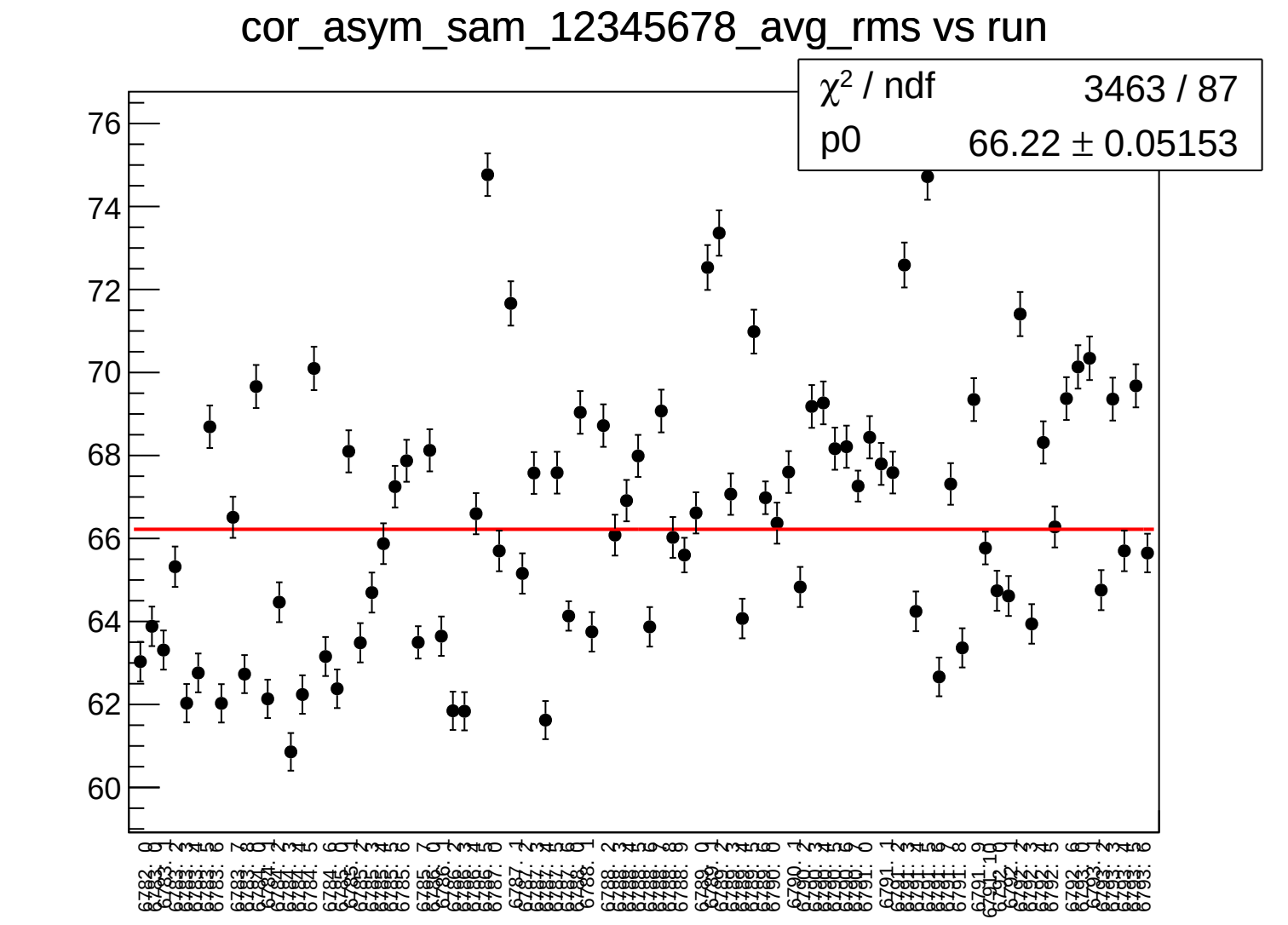

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3463 / 87
p0 66.22 ± 0.05153
76
74
72
70
68
66
64
62
60

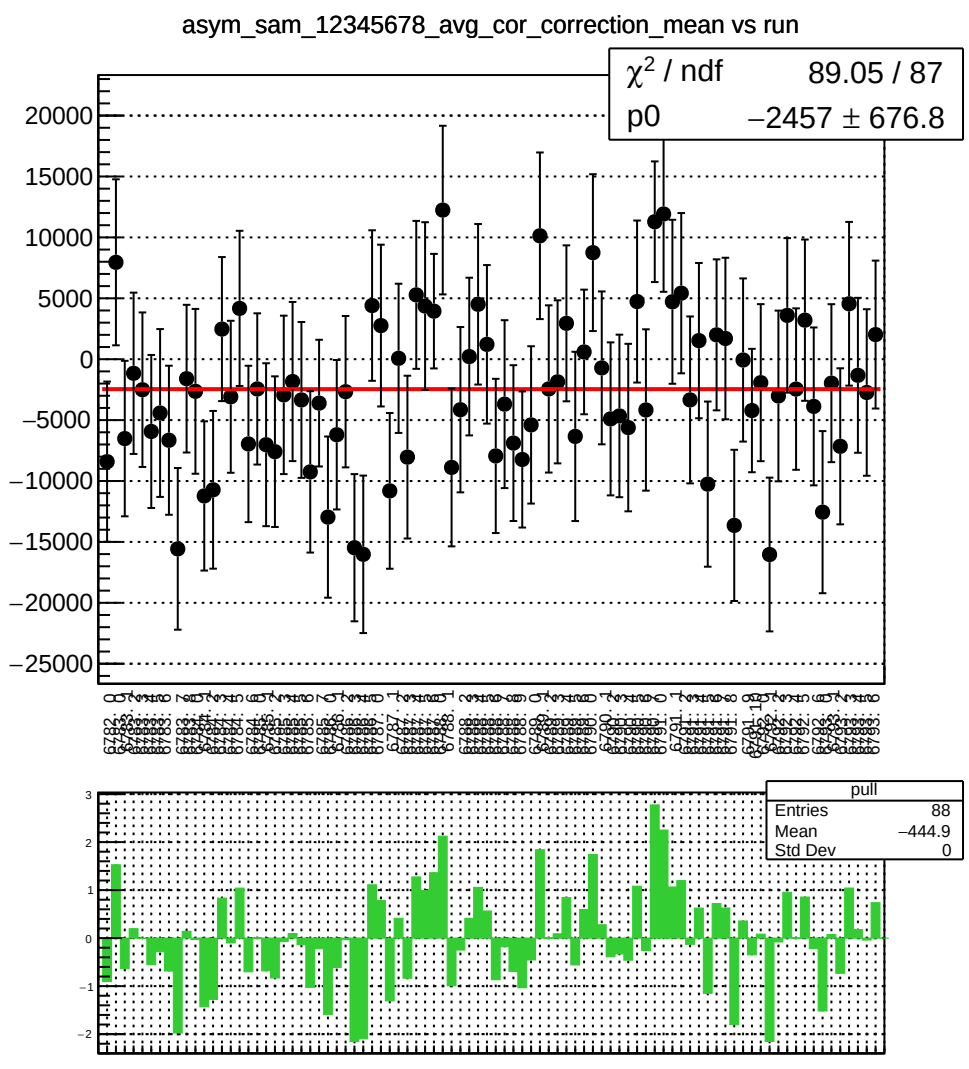

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 89.05 / 87
p0 −2457 ± 676.8
pull
Entries 88
Mean −444.9
Std Dev 0

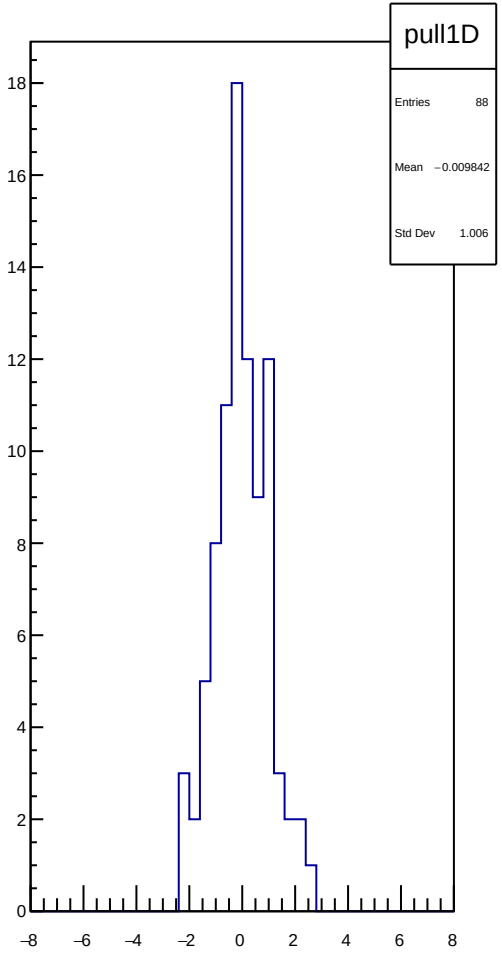

pull1D
Entries 88
Mean −0.009841
Std Dev 1.006

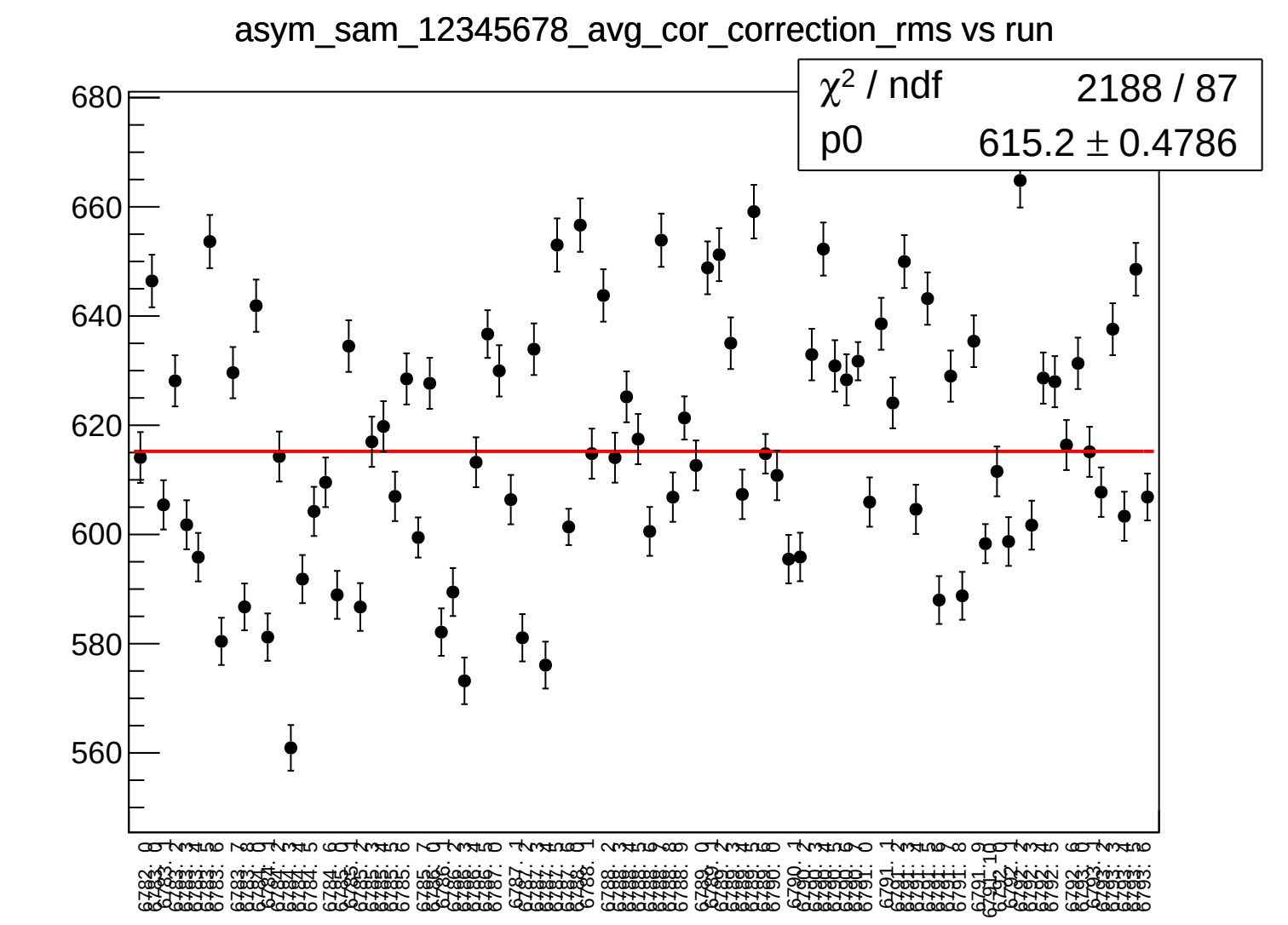

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2188 / 87
p0 615.2 ± 0.4786
680
660
640
620
600
580
560

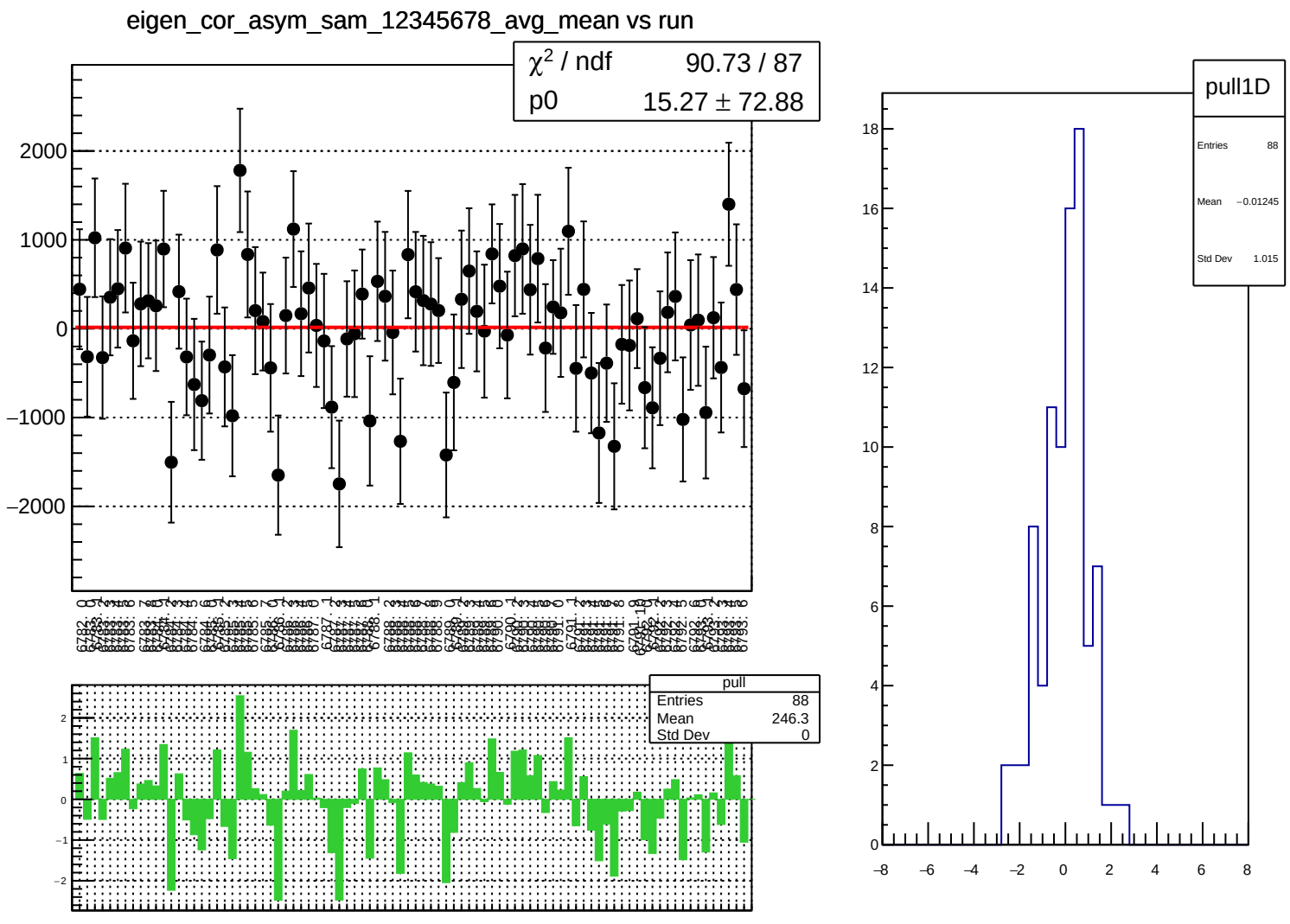

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 90.73 / 87
p0 15.27 ± 72.88
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 246.3
Std Dev 0
pull1D
Entries 88
Mean −0.01245
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

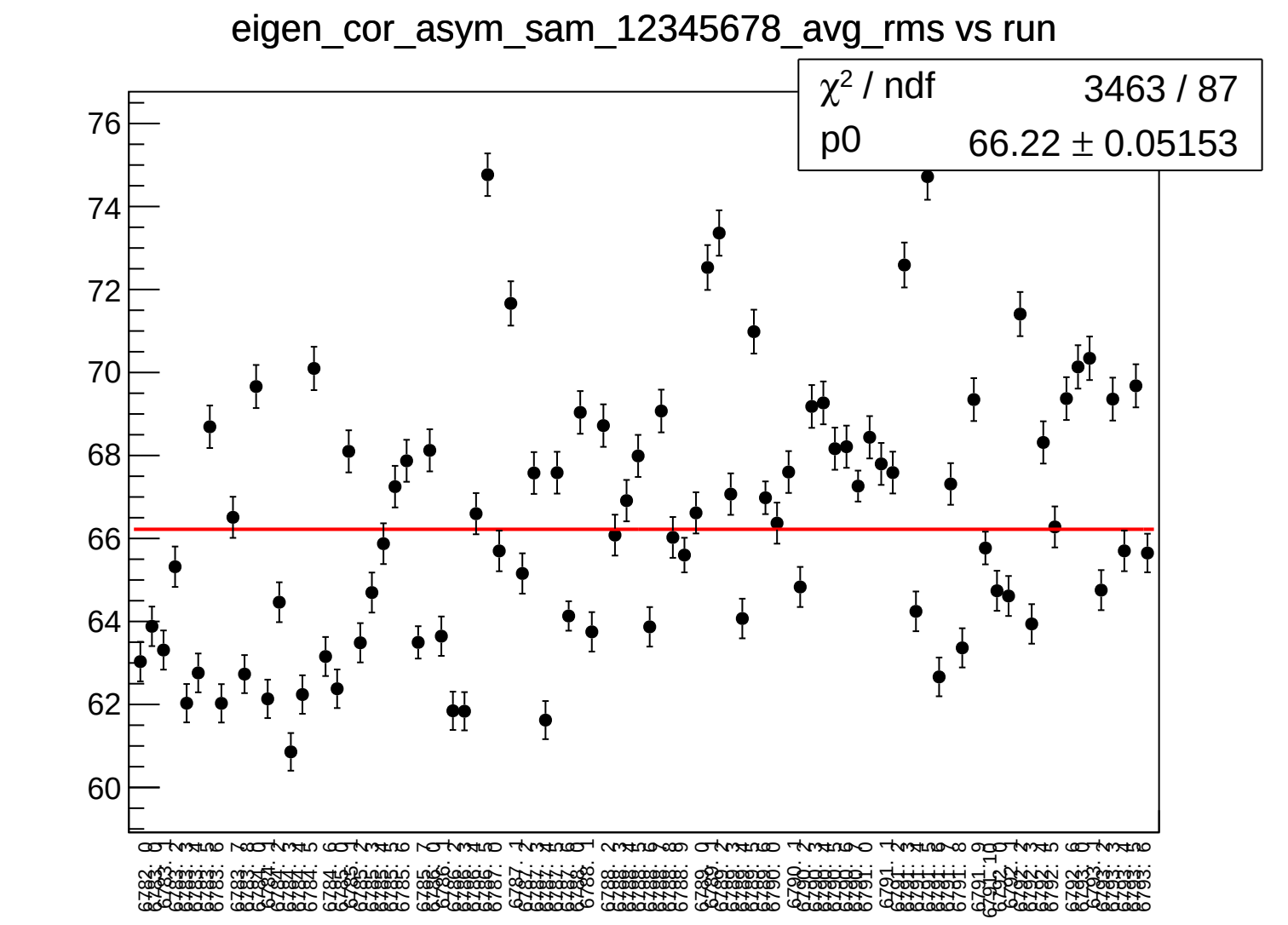

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3463 / 87
p0 66.22 ± 0.05153
76
74
72
70
68
66
64
62
60

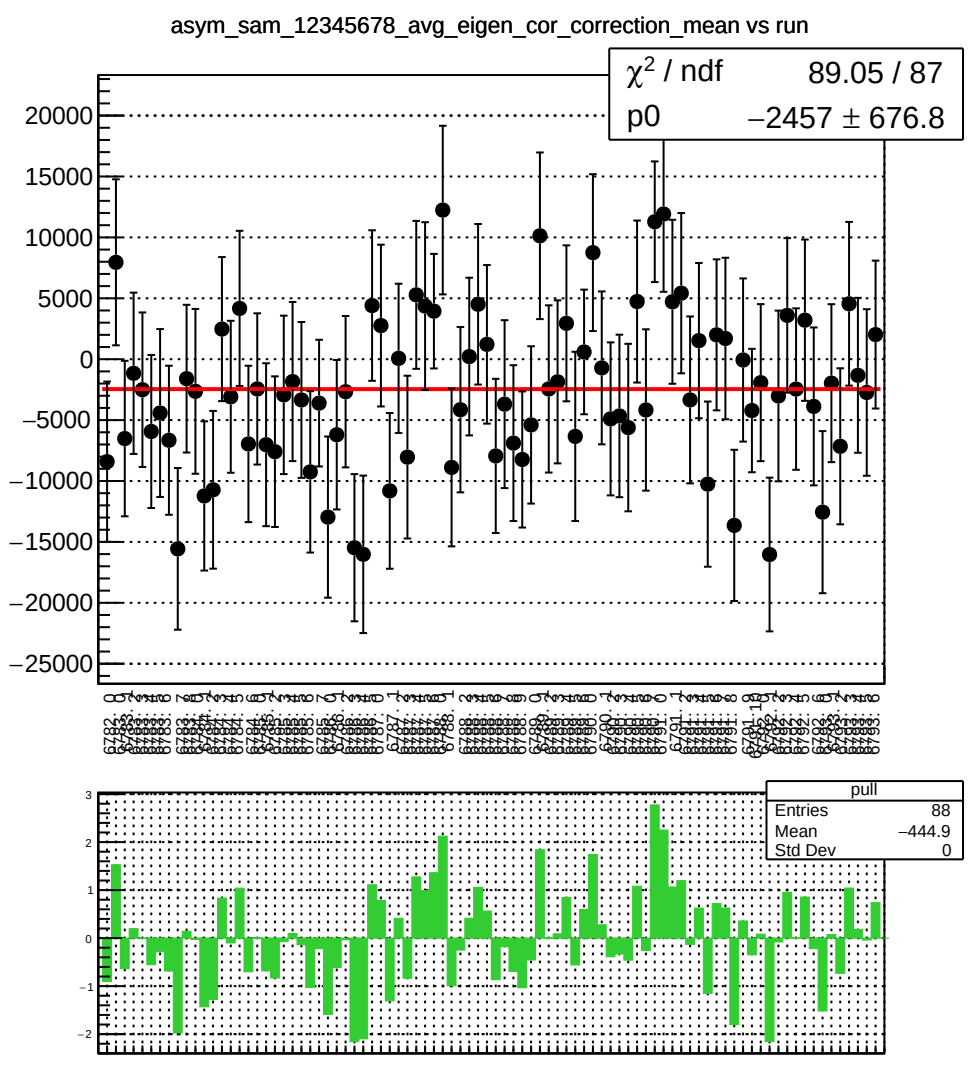

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 89.05 / 87
p0 −2457 ± 676.8
pull
Entries 88
Mean −444.9
Std Dev 0

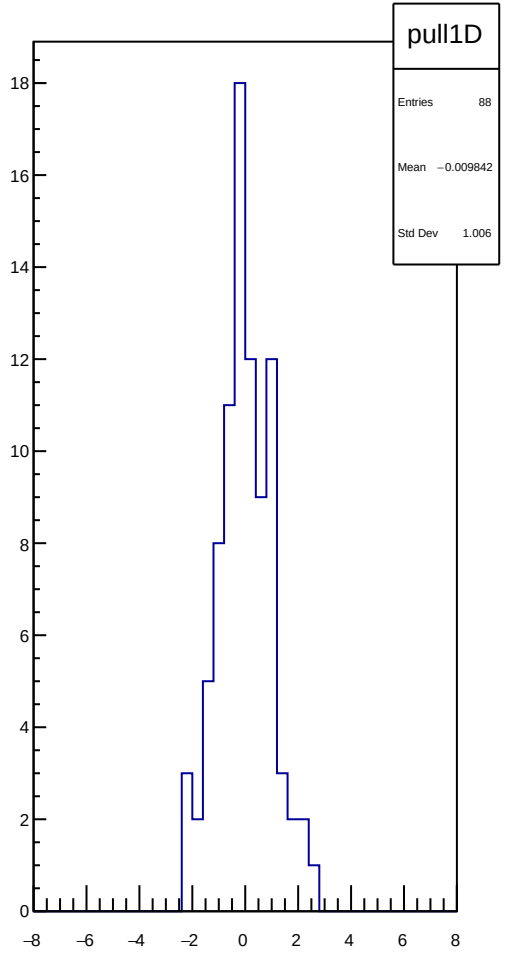

pull1D
Entries 88
Mean −0.009842
Std Dev 1.006

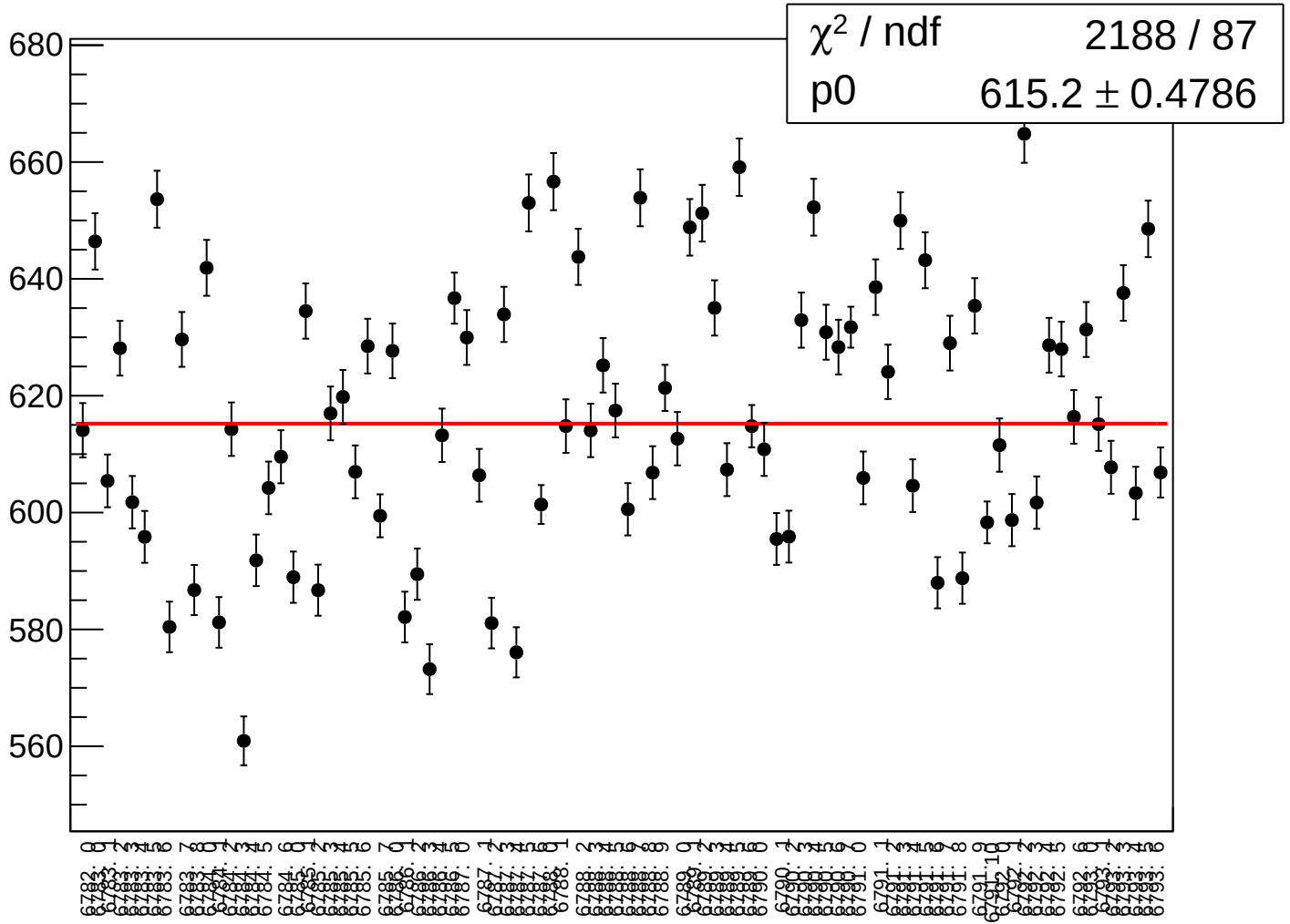

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 2188 / 87
p0 615.2 ± 0.4786
680
660
640
620
600
580
560

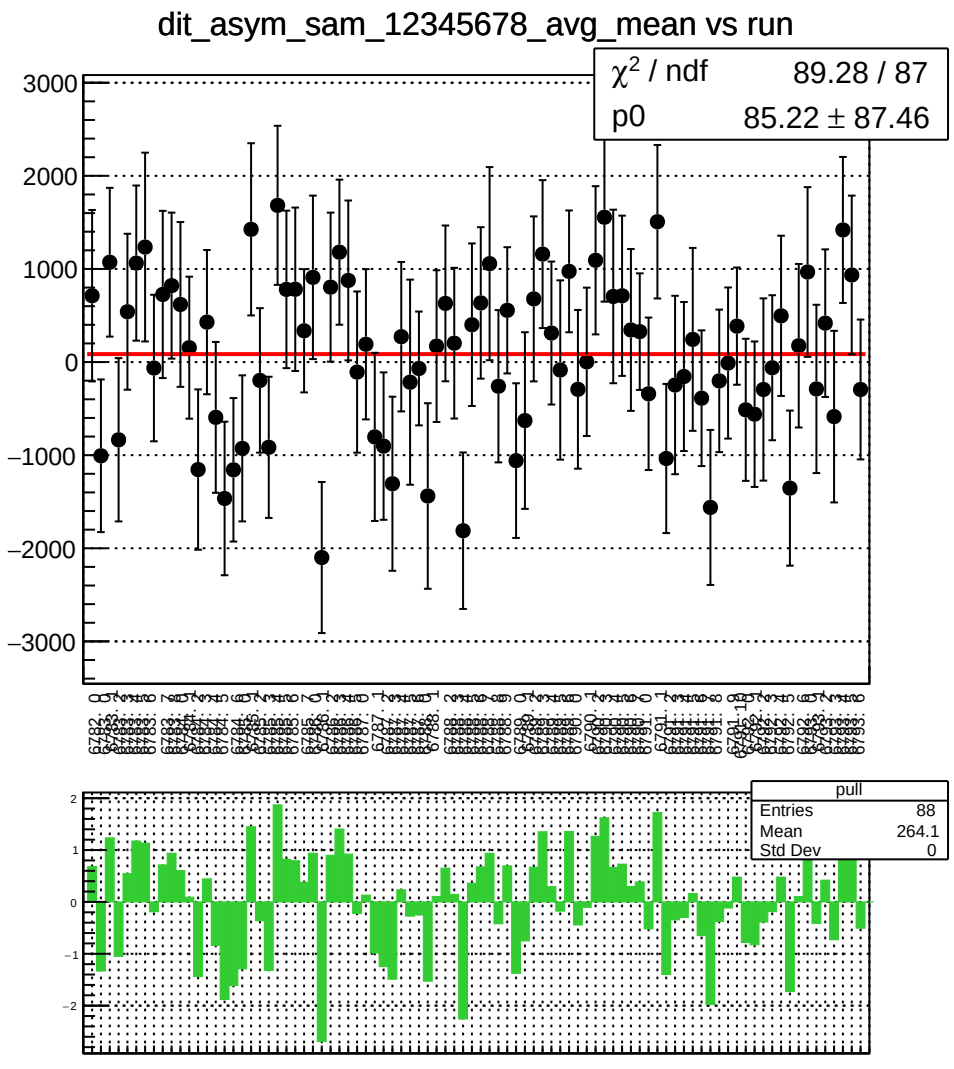

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 90.73 / 87
p0 15.27 ± 72.88
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 246.3
Std Dev 0
pull1D
Entries 88
Mean −0.01245
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

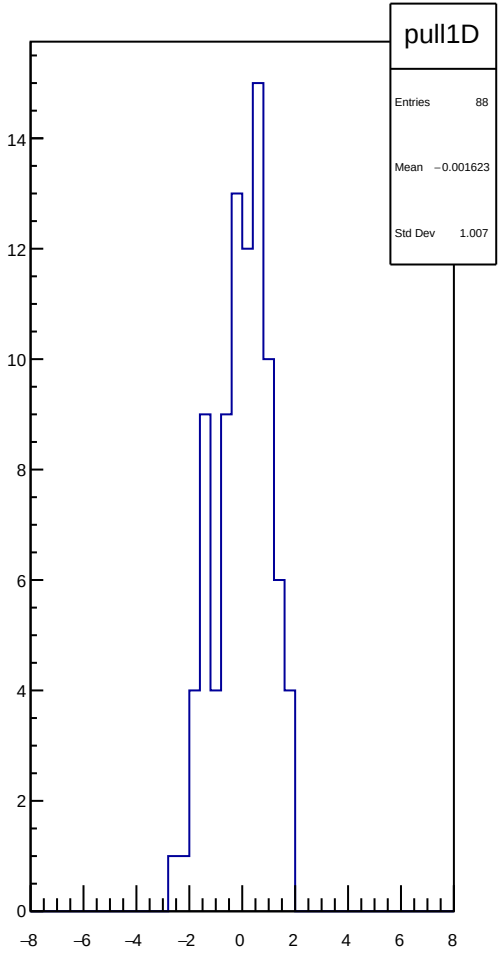

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3463 / 87
p0 66.22 ± 0.05153
76
74
72
70
68
66
64
62
60

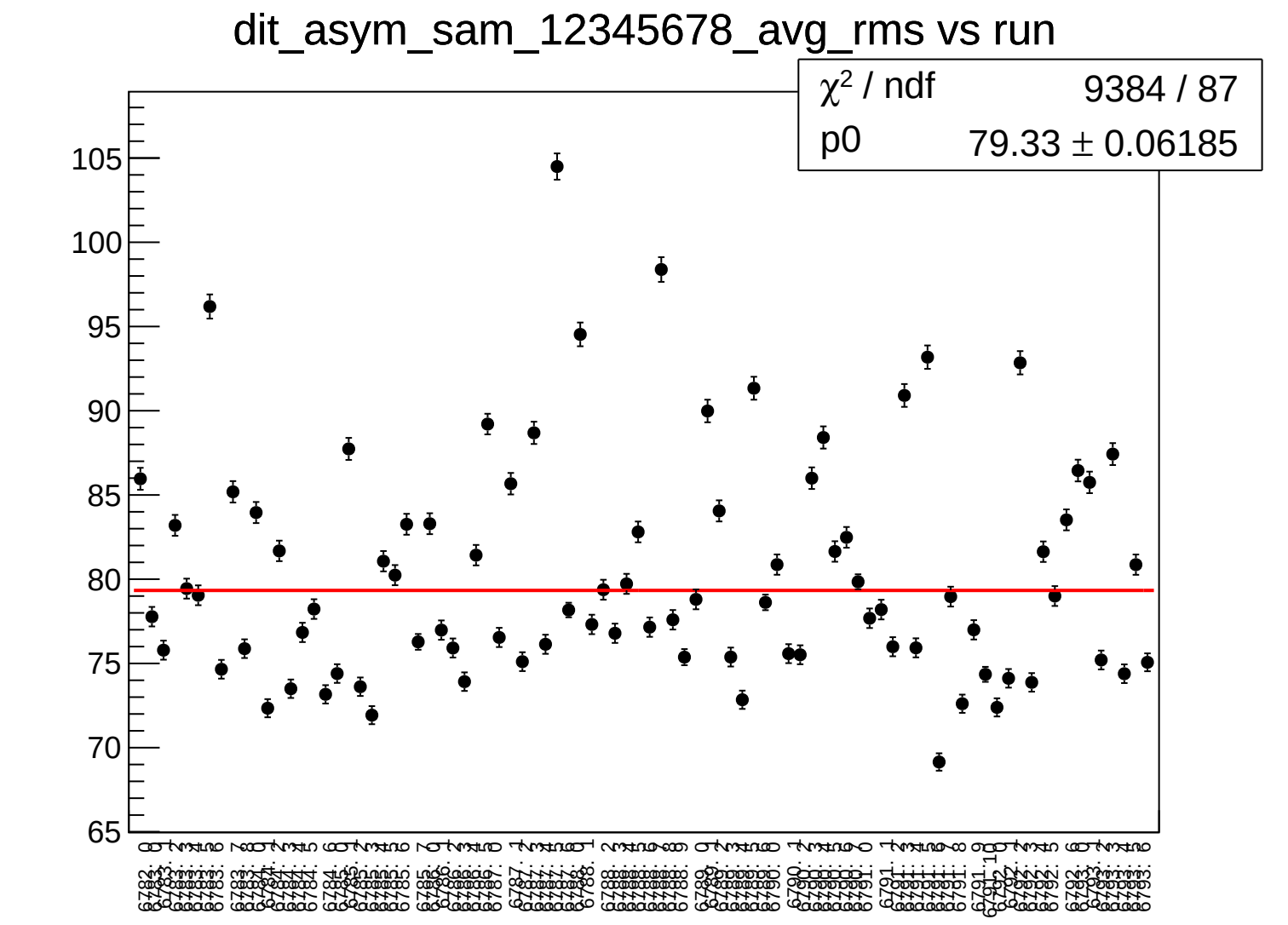

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.05 / 87
p0 −2457 ± 676.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −444.9
Std Dev 0
3
2
1
0
−1
−2

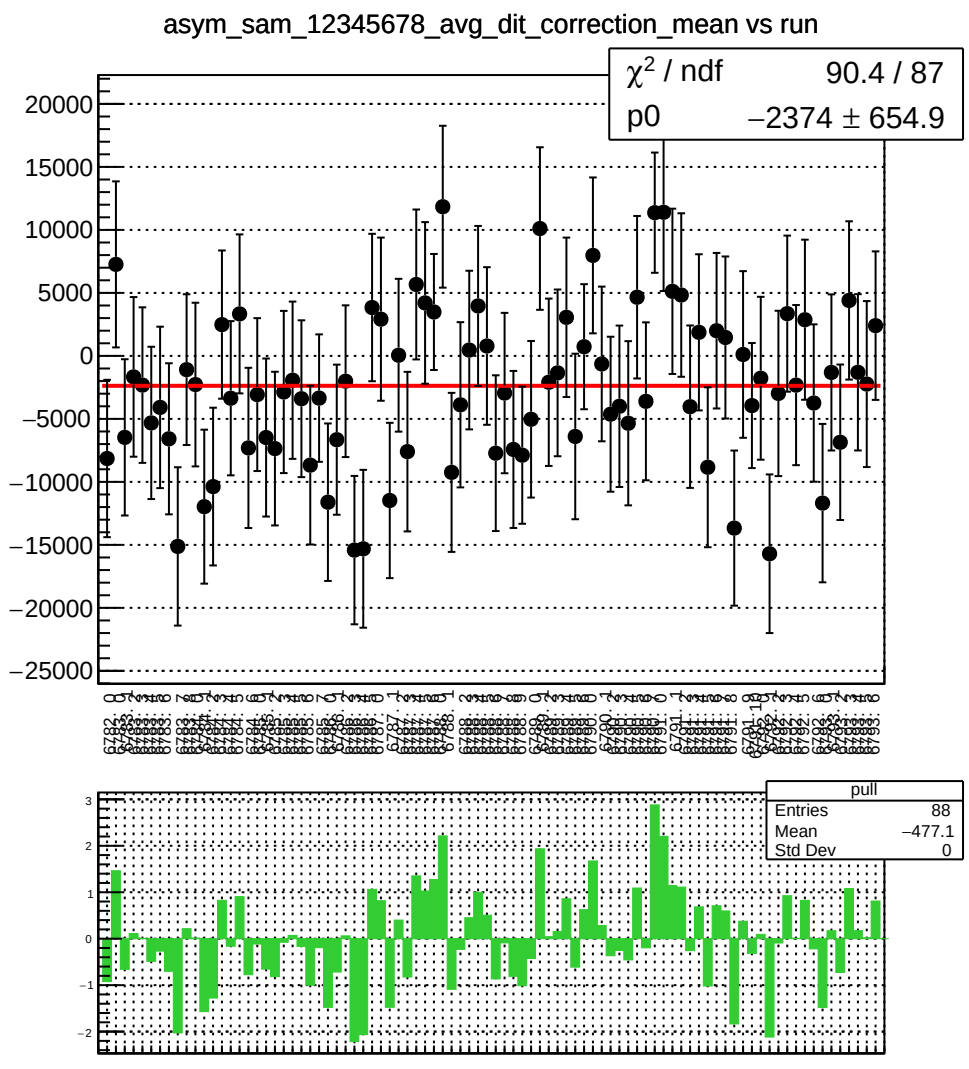

pull1D
Entries 88
Mean −0.009842
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

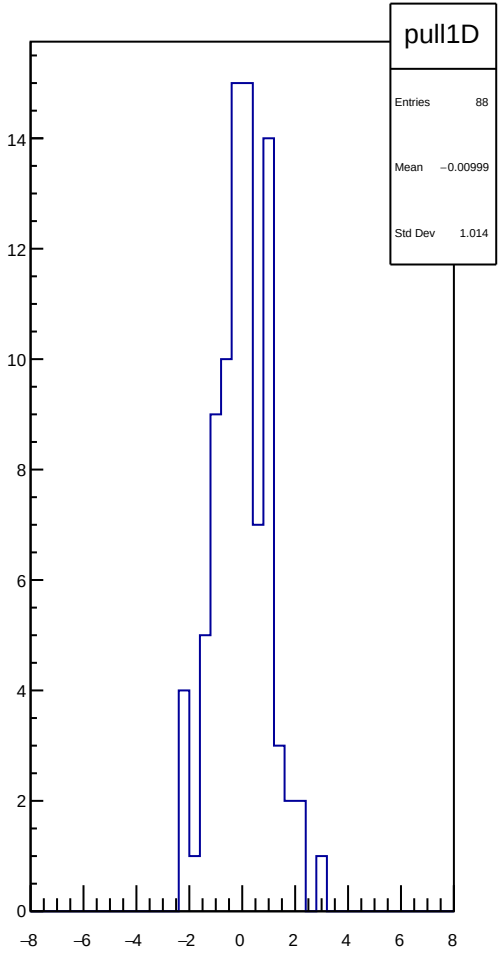

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 2188 / 87
p0 615.2 ± 0.4786
680
660
640
620
600
580
560

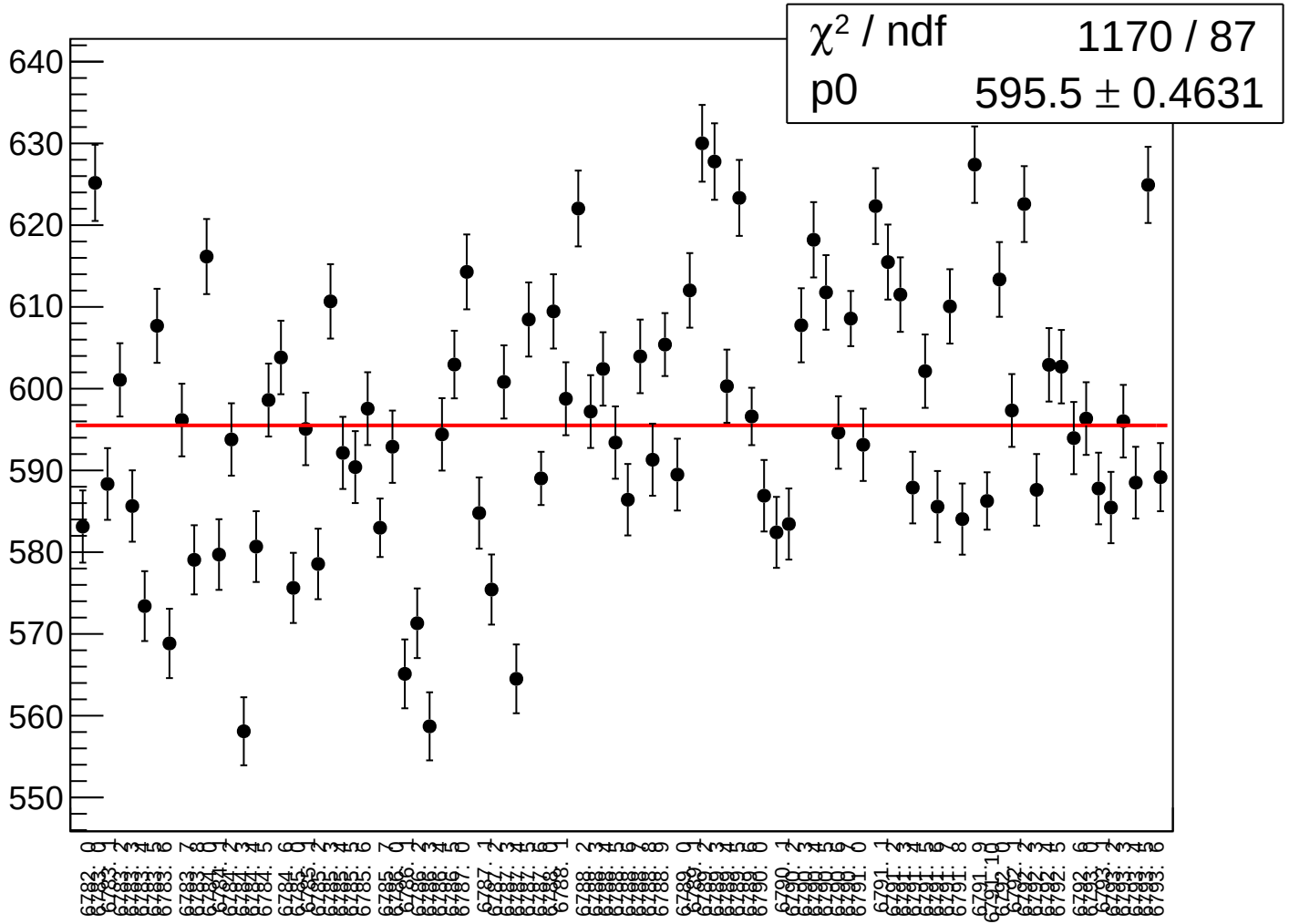

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.28 / 87
p0 85.22 ± 87.46
pull
Entries 88
Mean 264.1
Std Dev 0

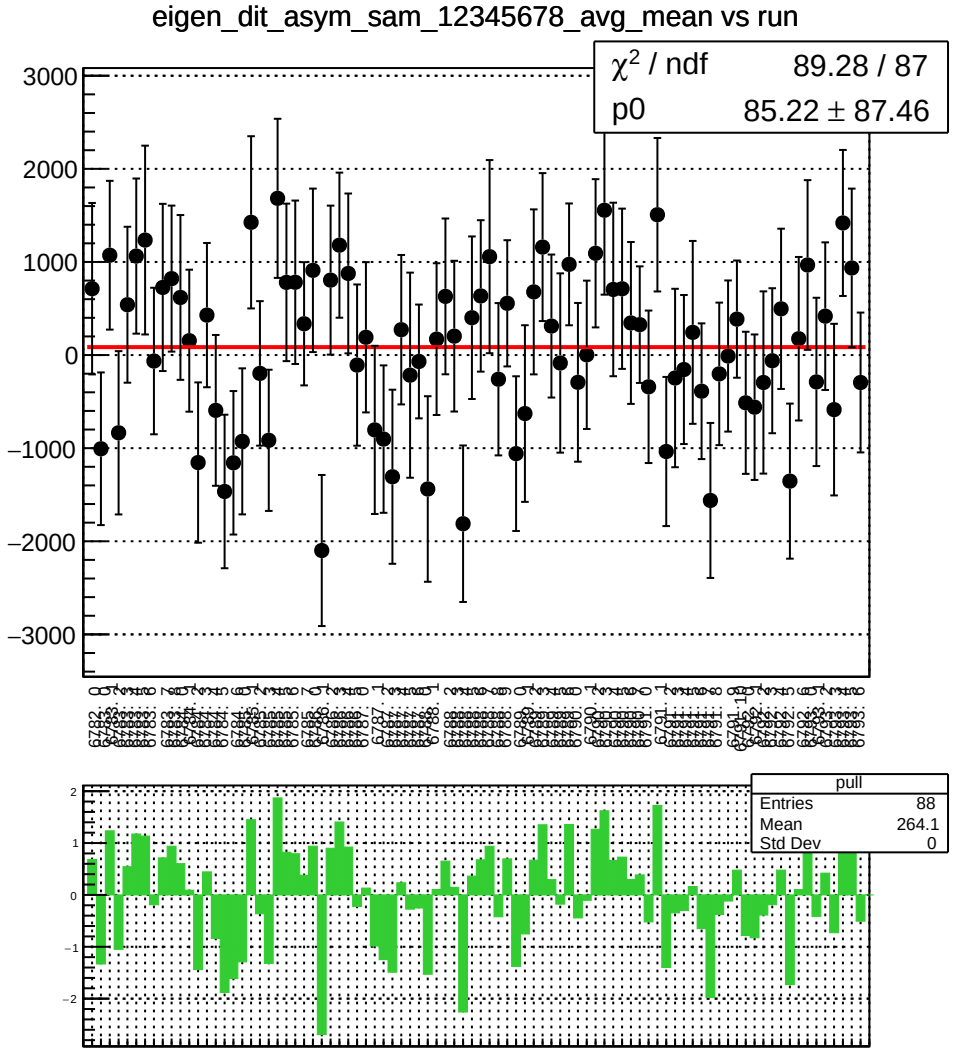

pull1D
Entries 88
Mean −0.001623
Std Dev 1.007

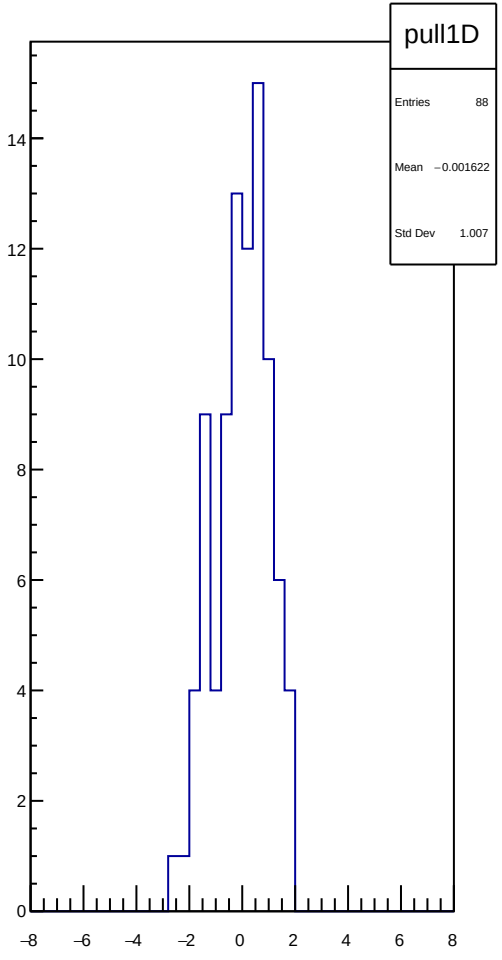

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 9384 / 87
p0 79.33 ± 0.06185
105
100
95
90
85
80
75
70
65

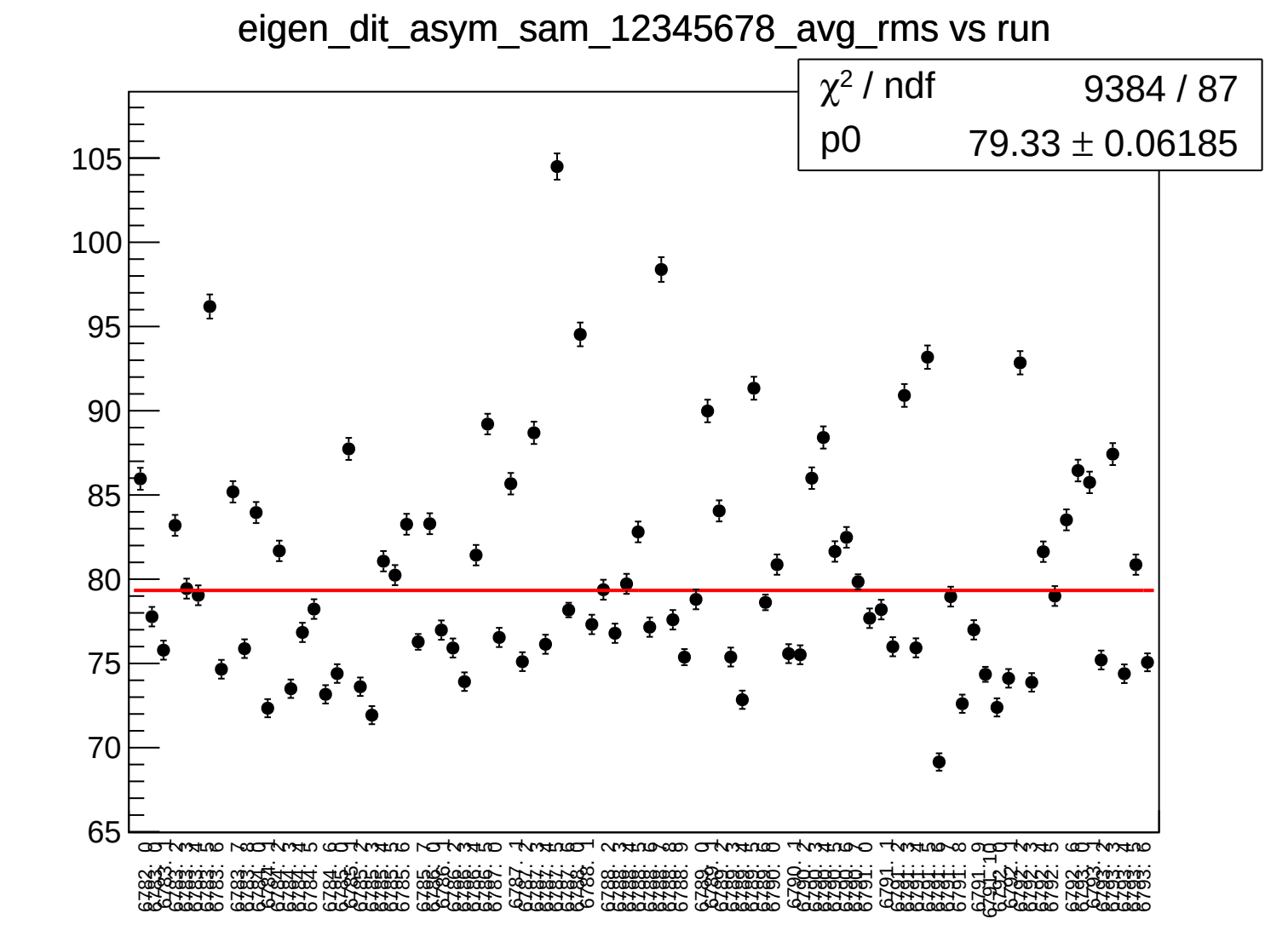

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 90.4 / 87
p0 −2374 ± 654.9
pull
Entries 88
Mean −477.1
Std Dev 0

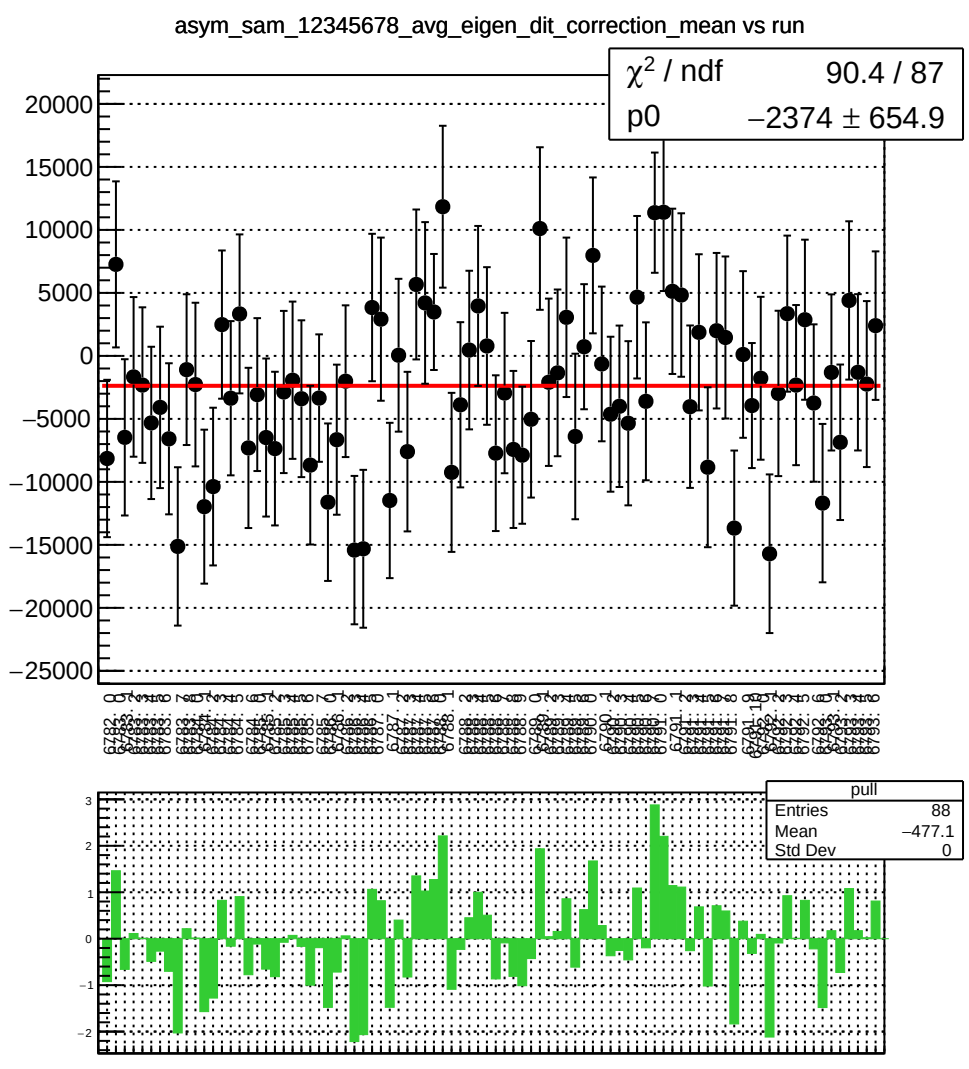

pull1D
Entries 88
Mean −0.00999
Std Dev 1.014

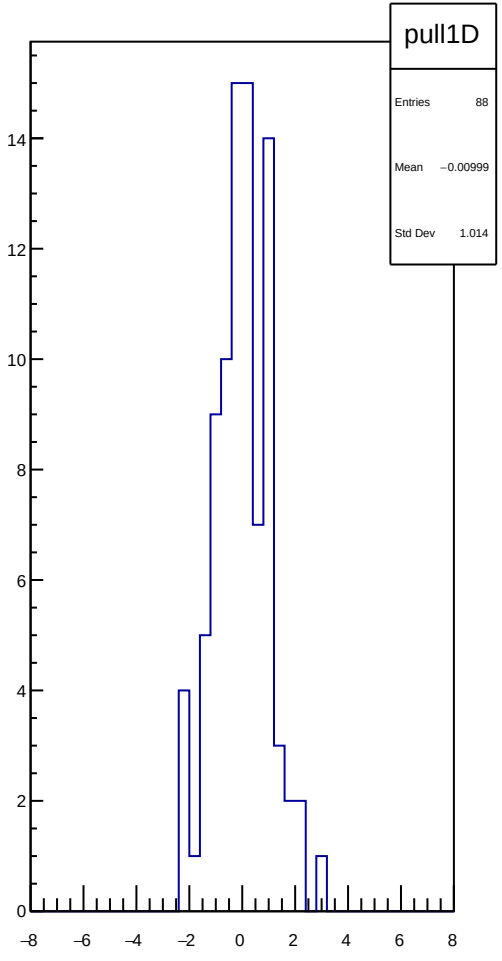

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1170 / 87
p0 595.5 ± 0.4631
640
630
620
610
600
590
580
570
560
550

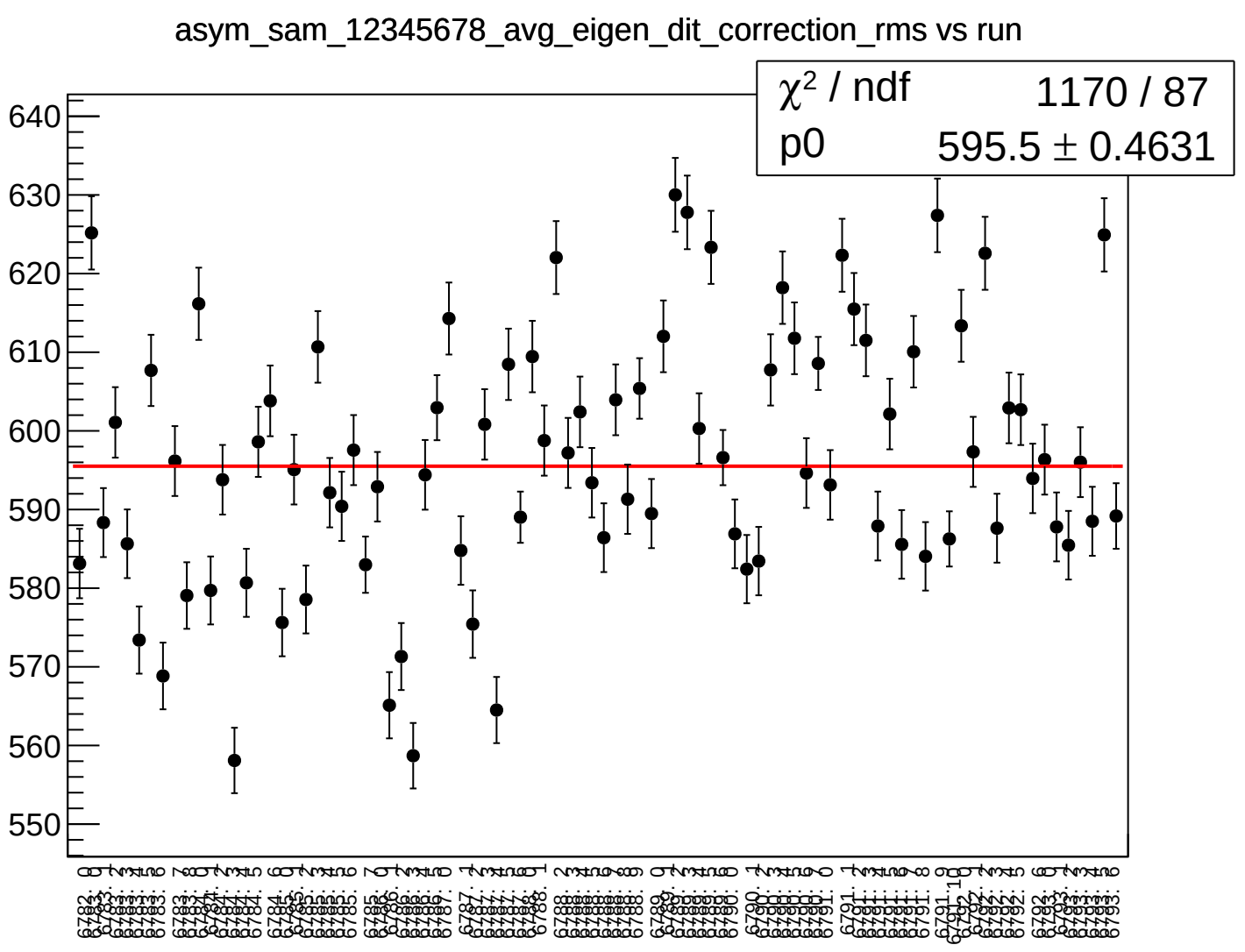

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.28 / 87
p0 85.22 ± 87.46
pull
Entries 88
Mean 264.1
Std Dev 0

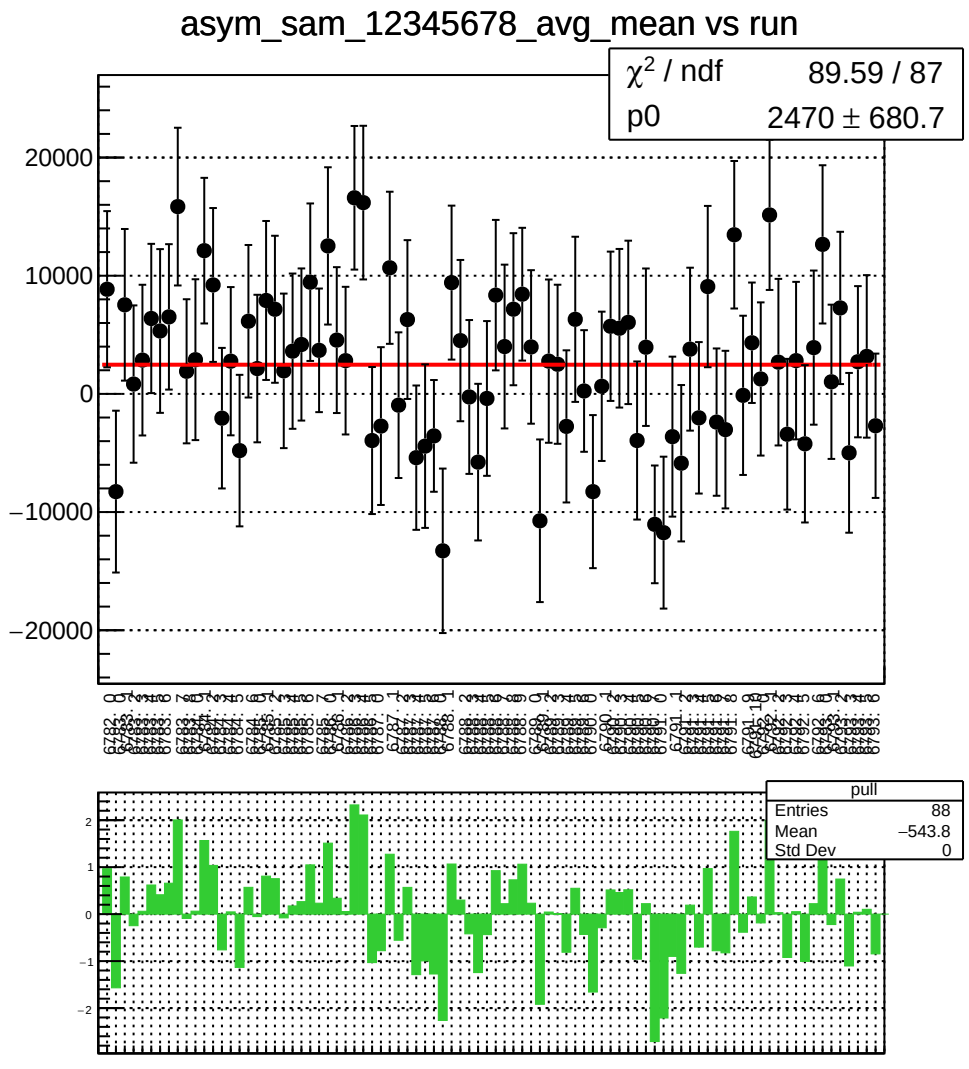

pull1D
Entries 88
Mean −0.001622
Std Dev 1.007

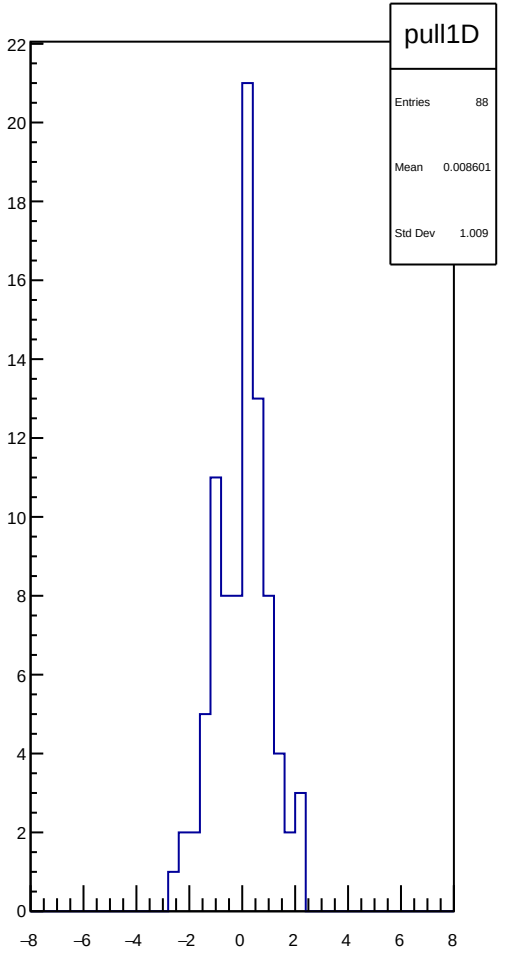

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9384 / 87
p0 79.33 ± 0.06185
105
100
95
90
85
80
75
70
65

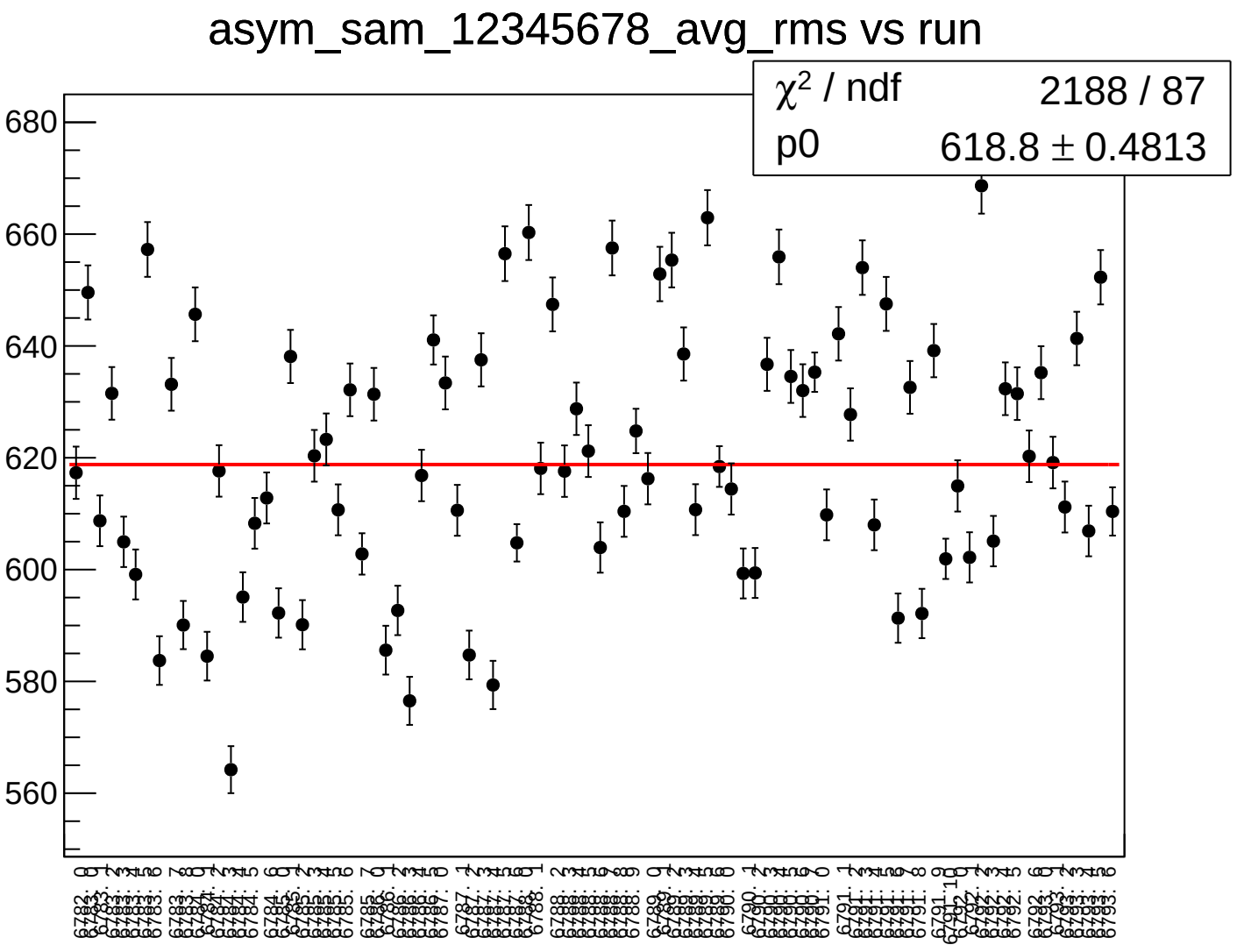

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.4 / 87
p0 −2374 ± 654.9
pull
Entries 88
Mean −477.1
Std Dev 0

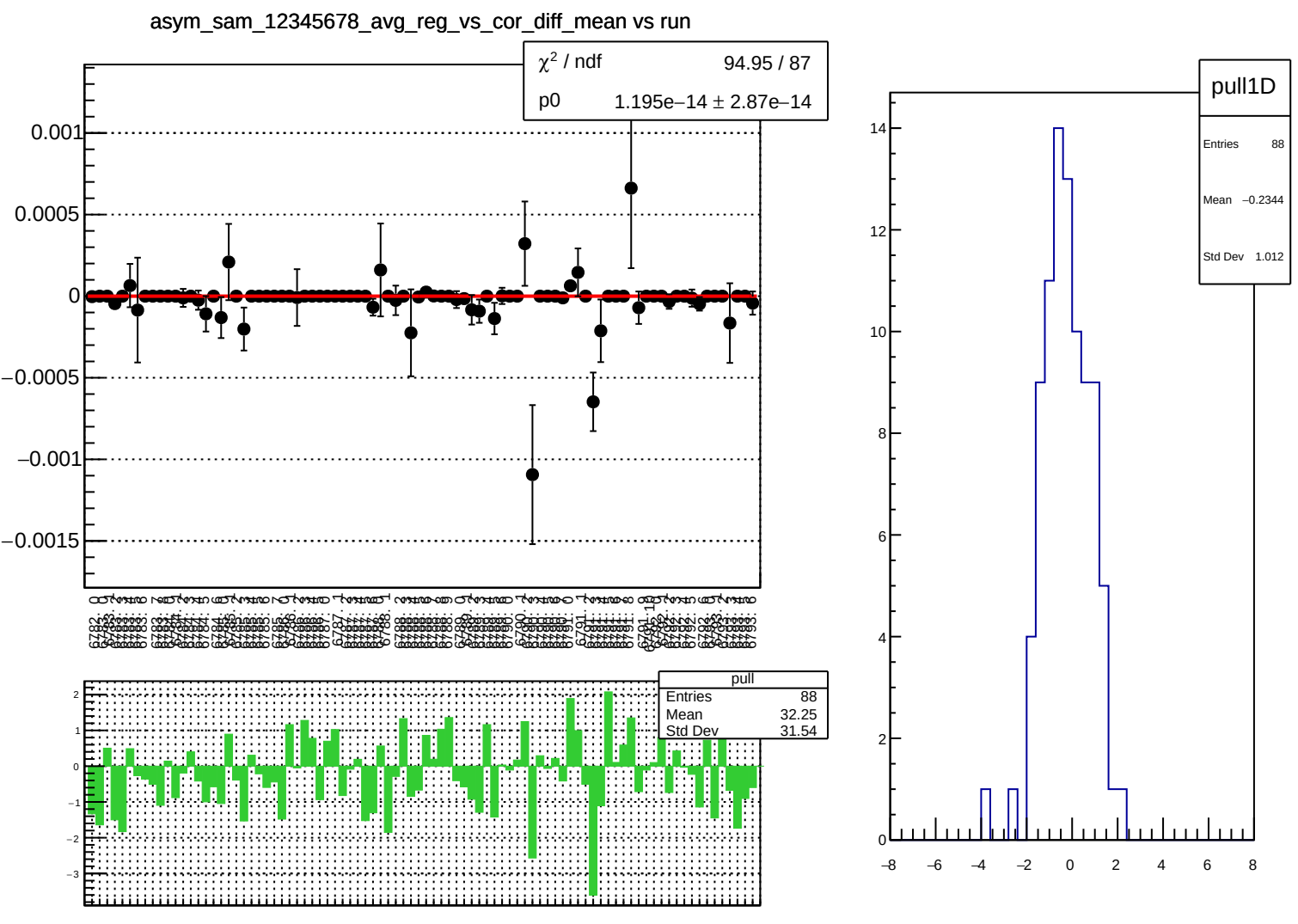

pull1D
Entries 88
Mean −0.00999
Std Dev 1.014

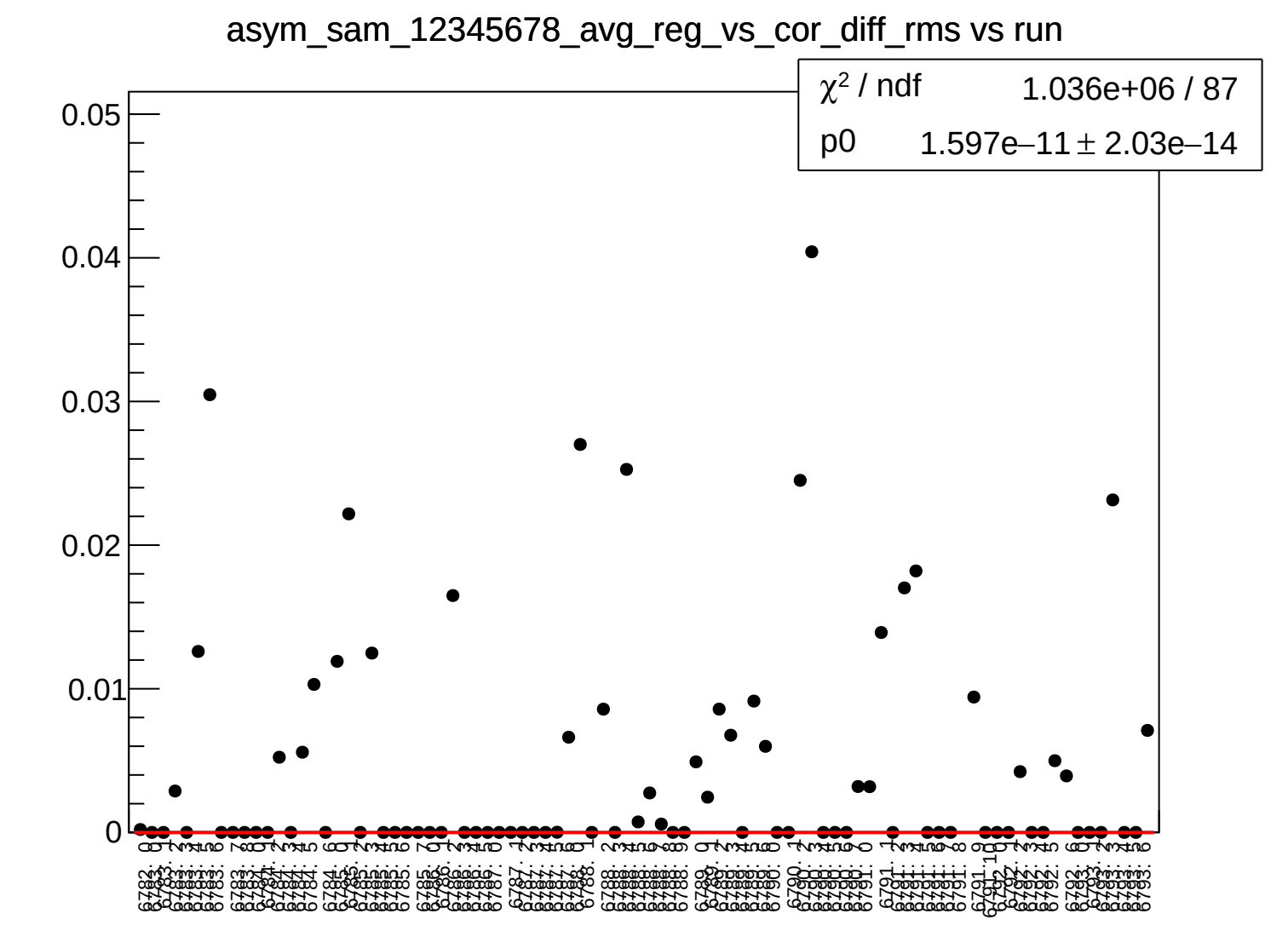

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1170 / 87
p0 595.5 ± 0.4631
640
630
620
610
600
590
580
570
560
550

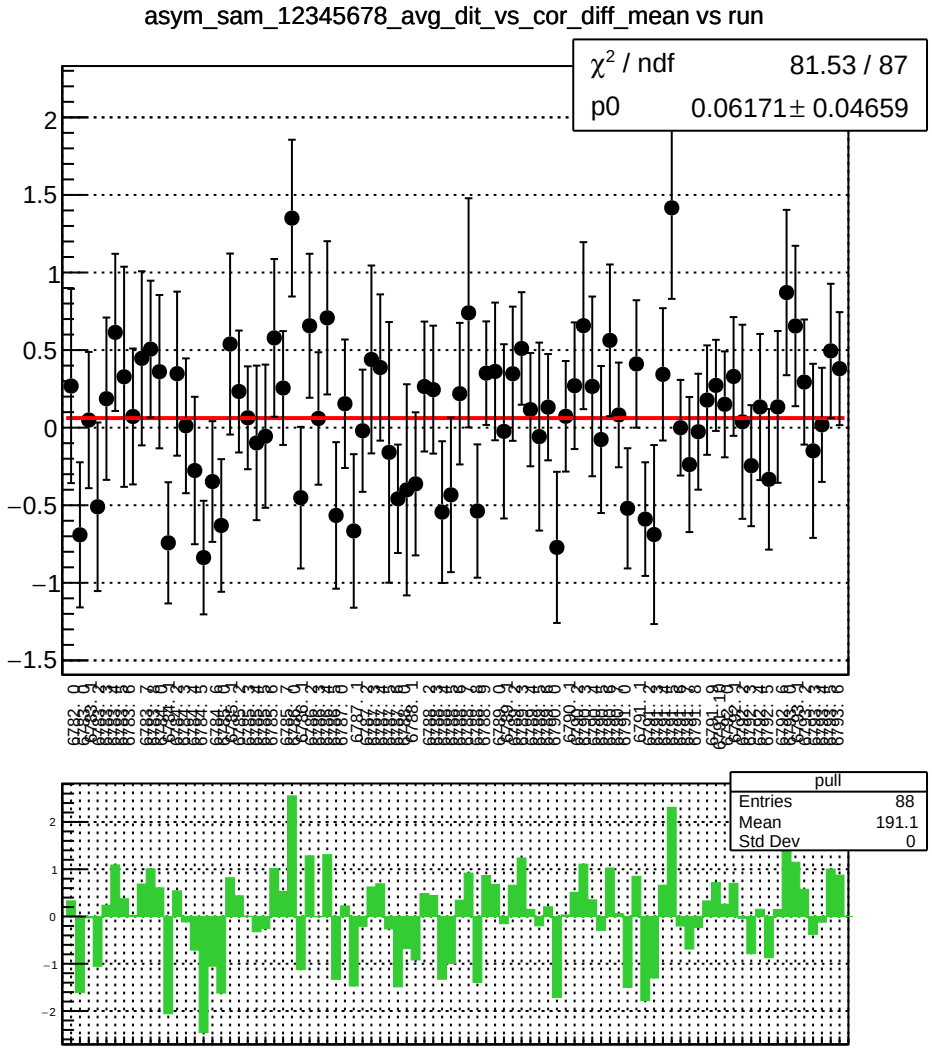

asym_sam_12345678_avg_mean vs run
χ² / ndf 89.59 / 87
p0 2470 ± 680.7
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −543.8
Std Dev 0
2
1
0
−1
−2

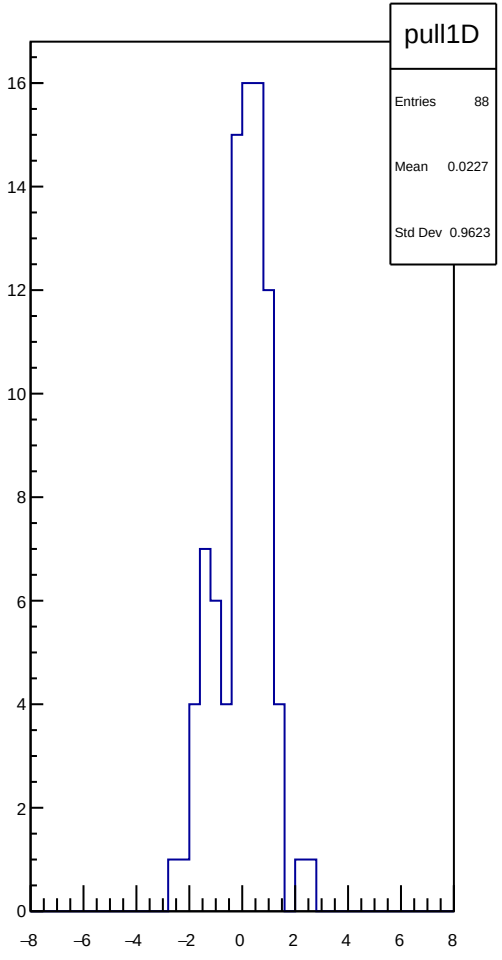

pull1D
Entries 88
Mean 0.008601
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

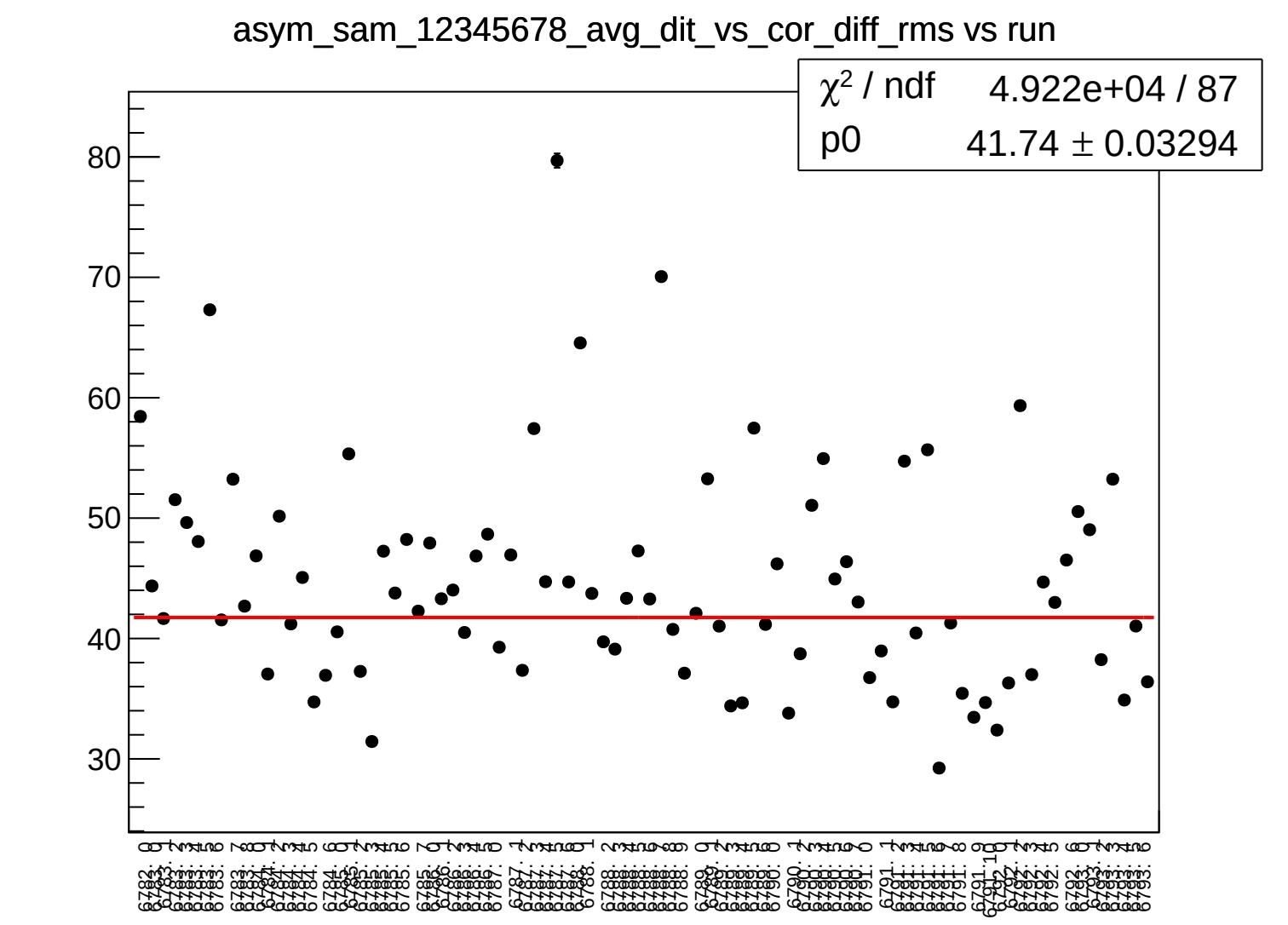

asym_sam_12345678_avg_rms vs run
χ² / ndf 2188 / 87
p0 618.8 ± 0.4813
680
660
640
620
600
580
560

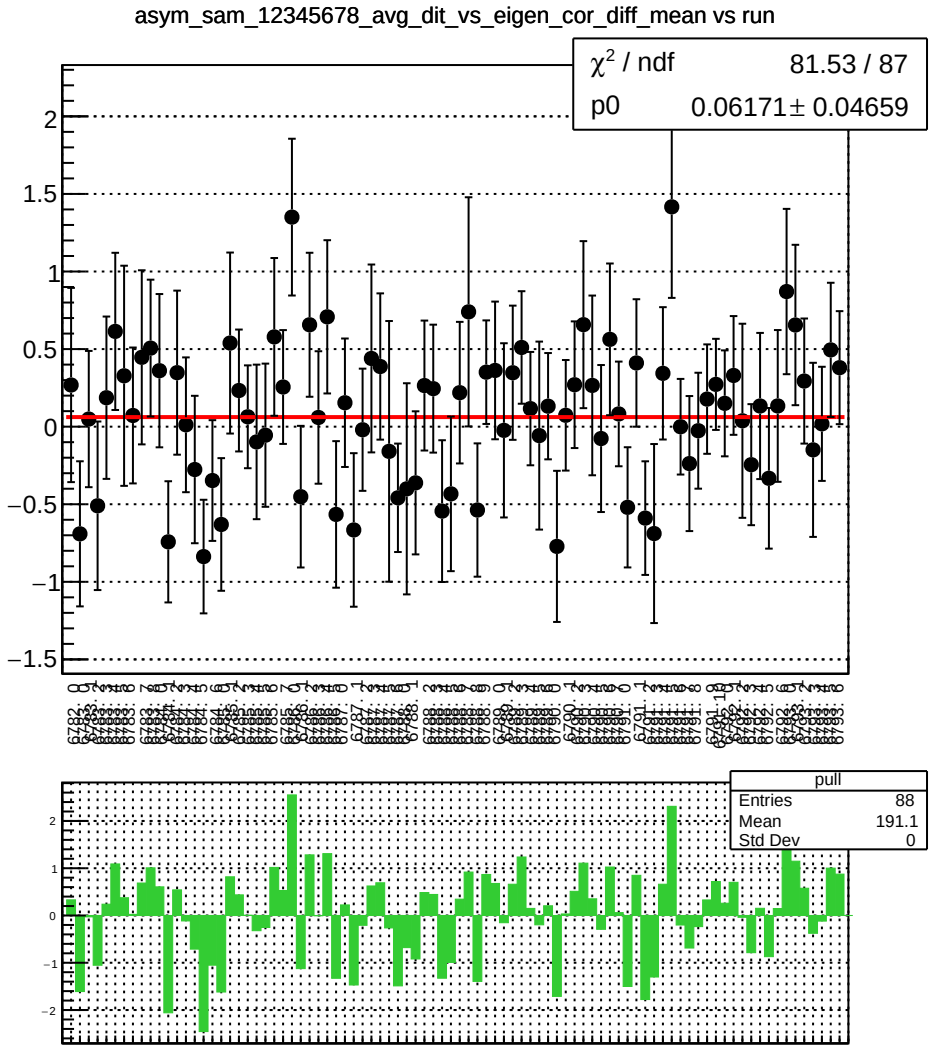

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.95 / 87
p0 1.195e−14 ± 2.87e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 32.25
Std Dev 31.54
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.2344
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

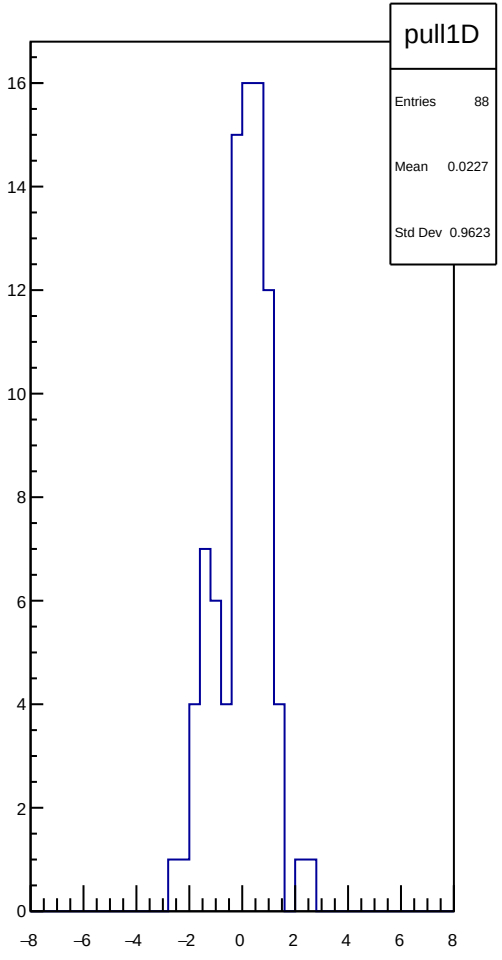

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 87
p0 1.597e−11 ± 2.03e−14
0.05
0.04
0.03
0.02
0.01
0

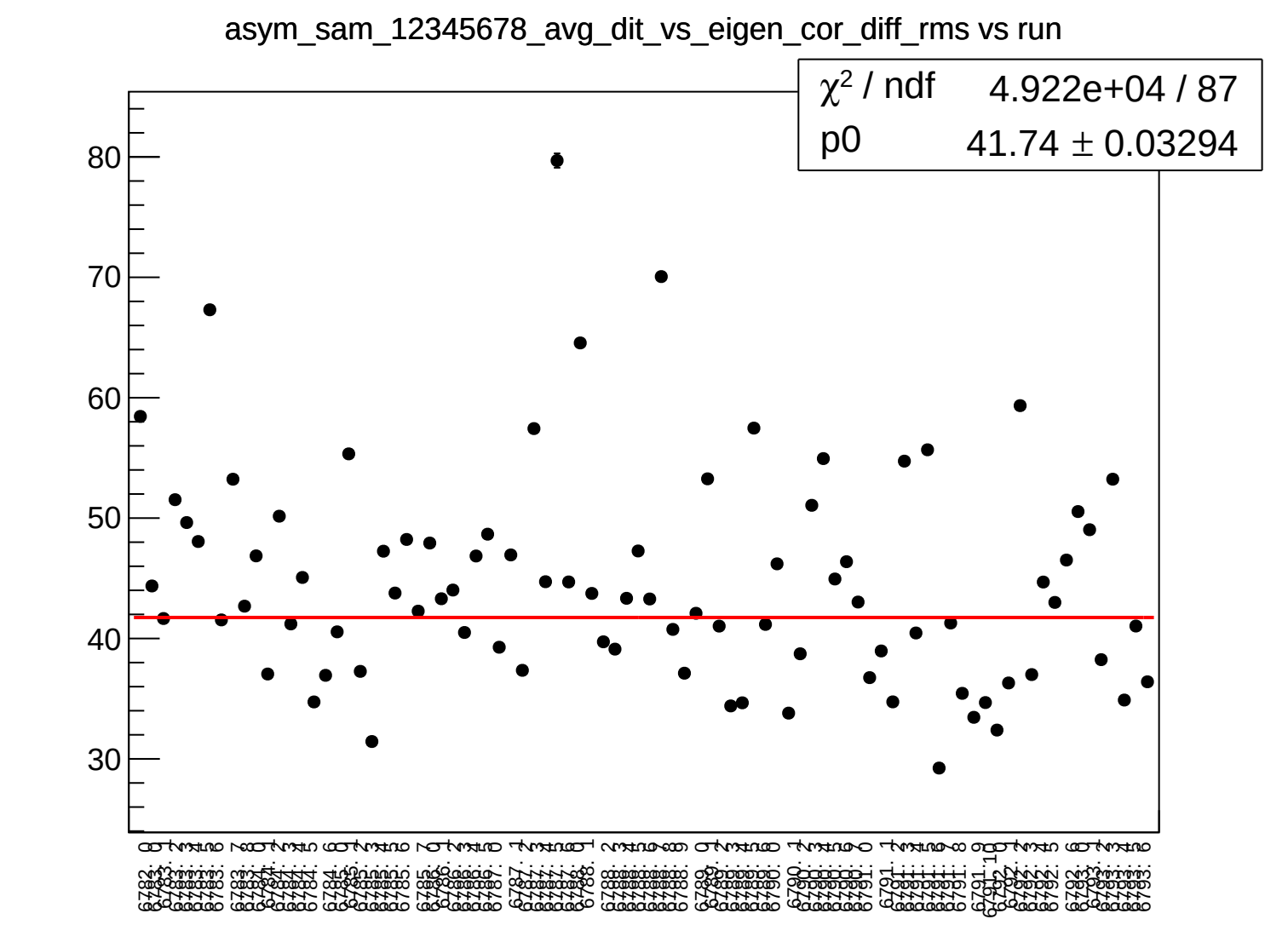

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.53 / 87
p0 0.06171 ± 0.04659
pull
Entries 88
Mean 191.1
Std Dev 0

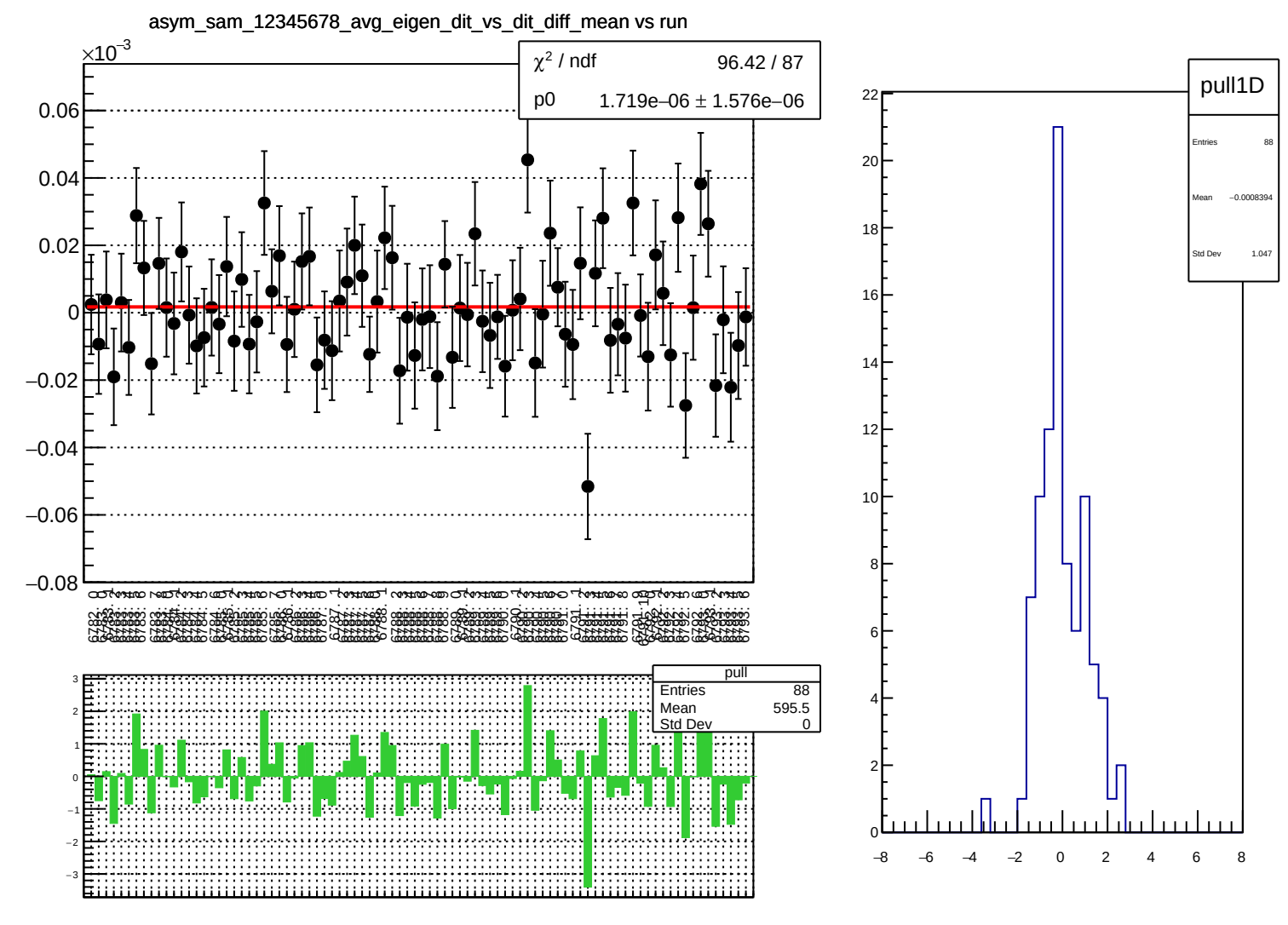

pull1D
Entries 88
Mean 0.0227
Std Dev 0.9623

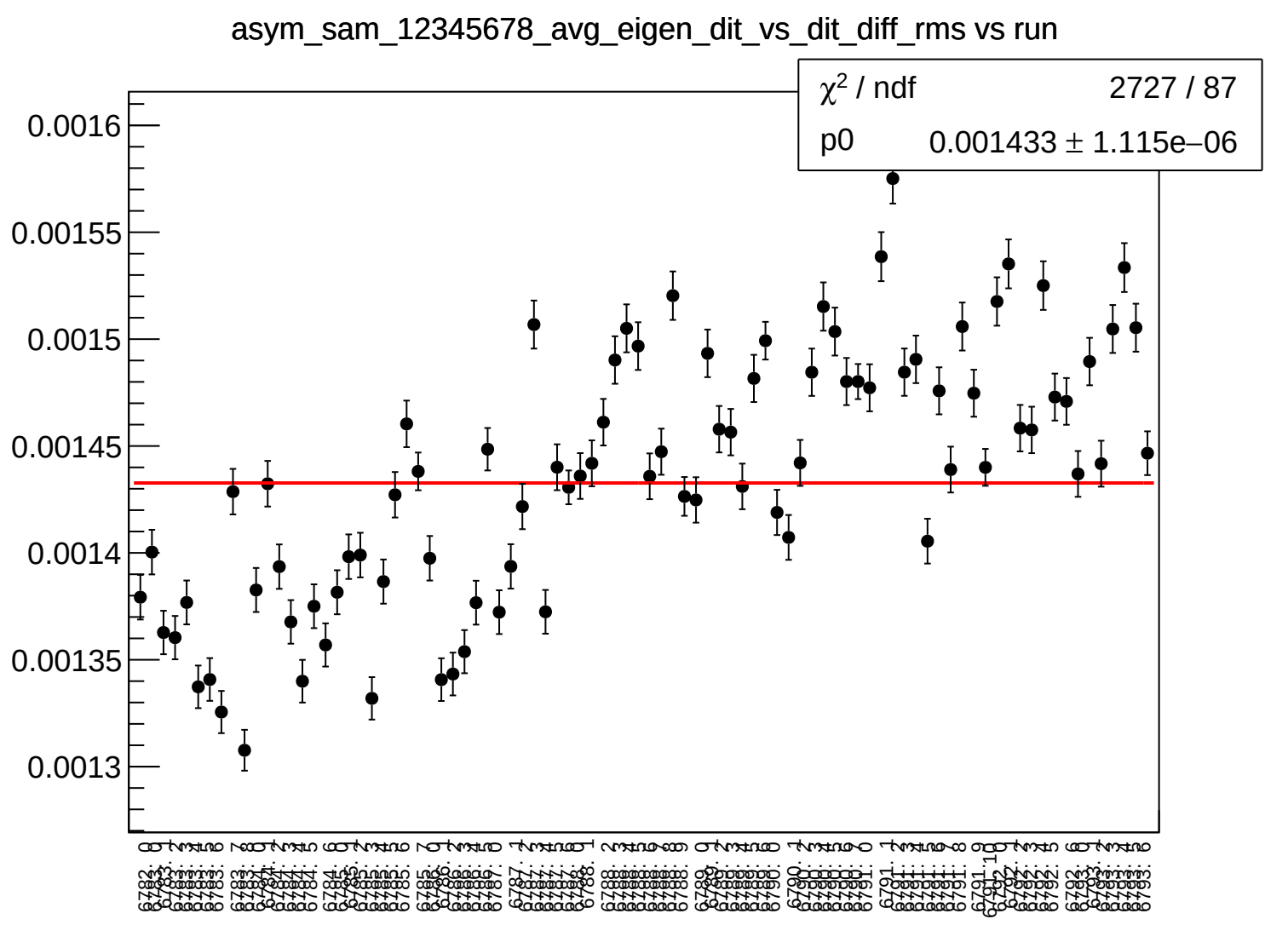

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.922e+04 / 87
p0 41.74 ± 0.03294
80
70
60
50
40
30

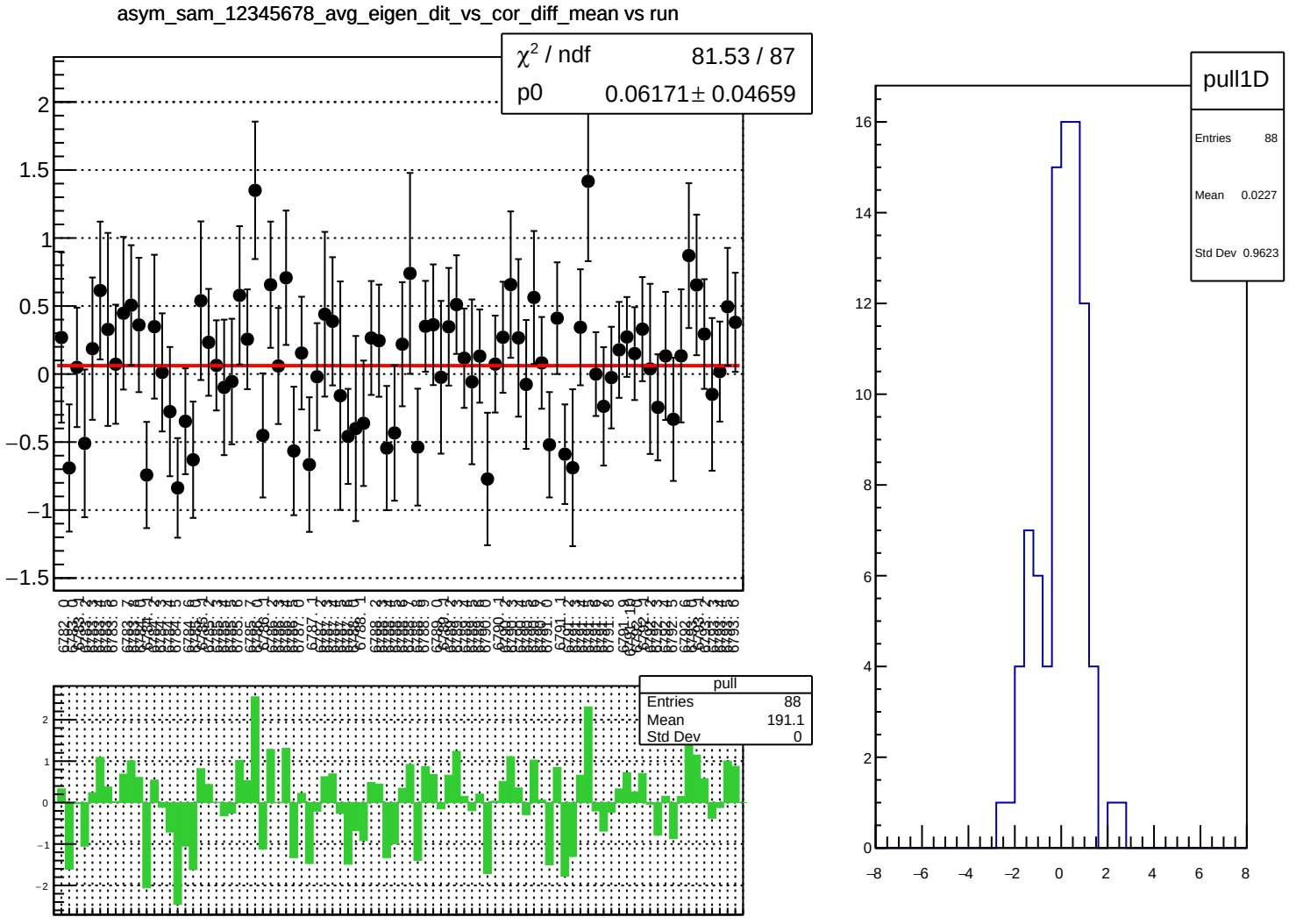

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.53 / 87
p0 0.06171 ± 0.04659
pull
Entries 88
Mean 191.1
Std Dev 0

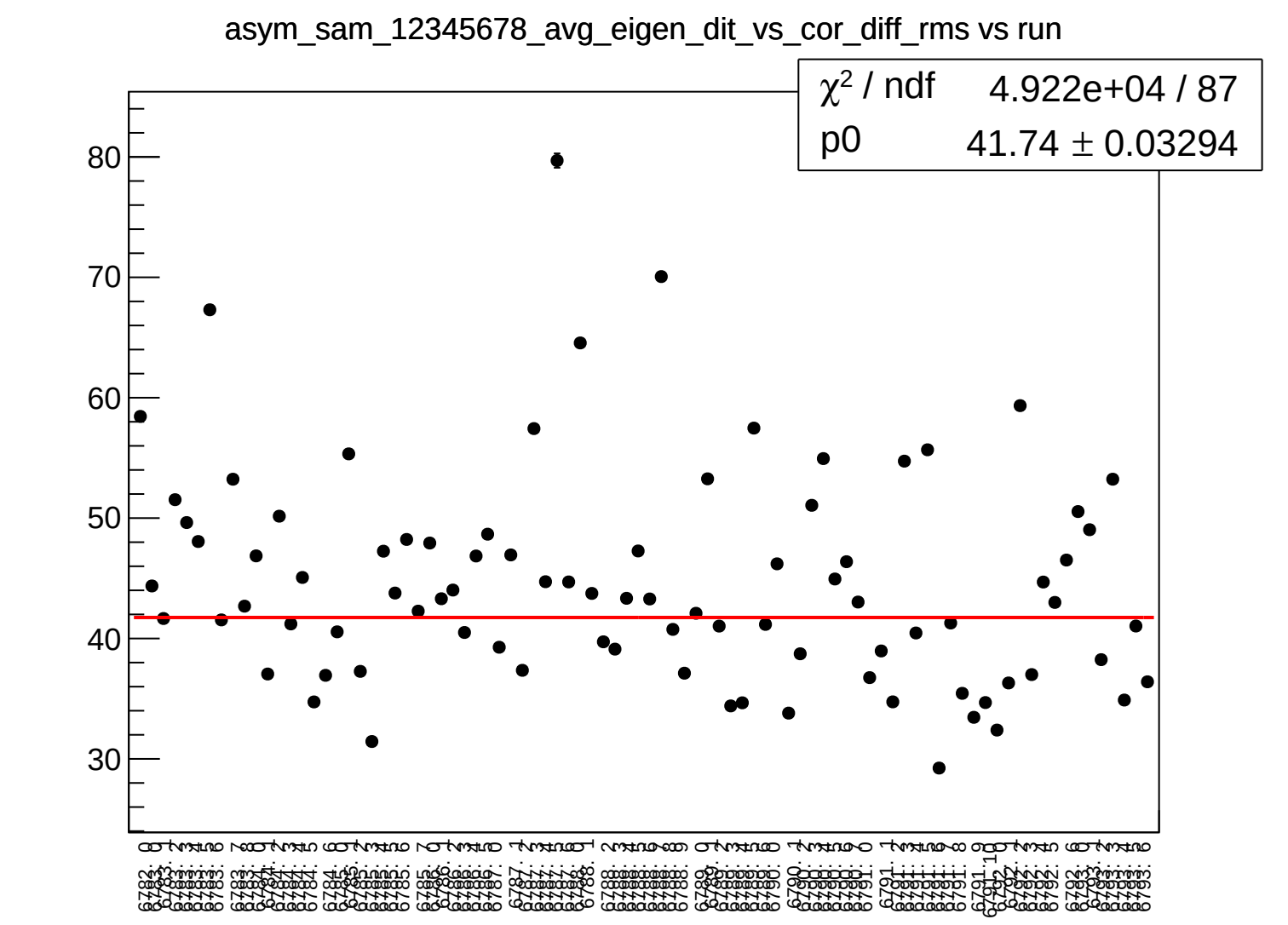

pull1D
Entries 88
Mean 0.0227
Std Dev 0.9623

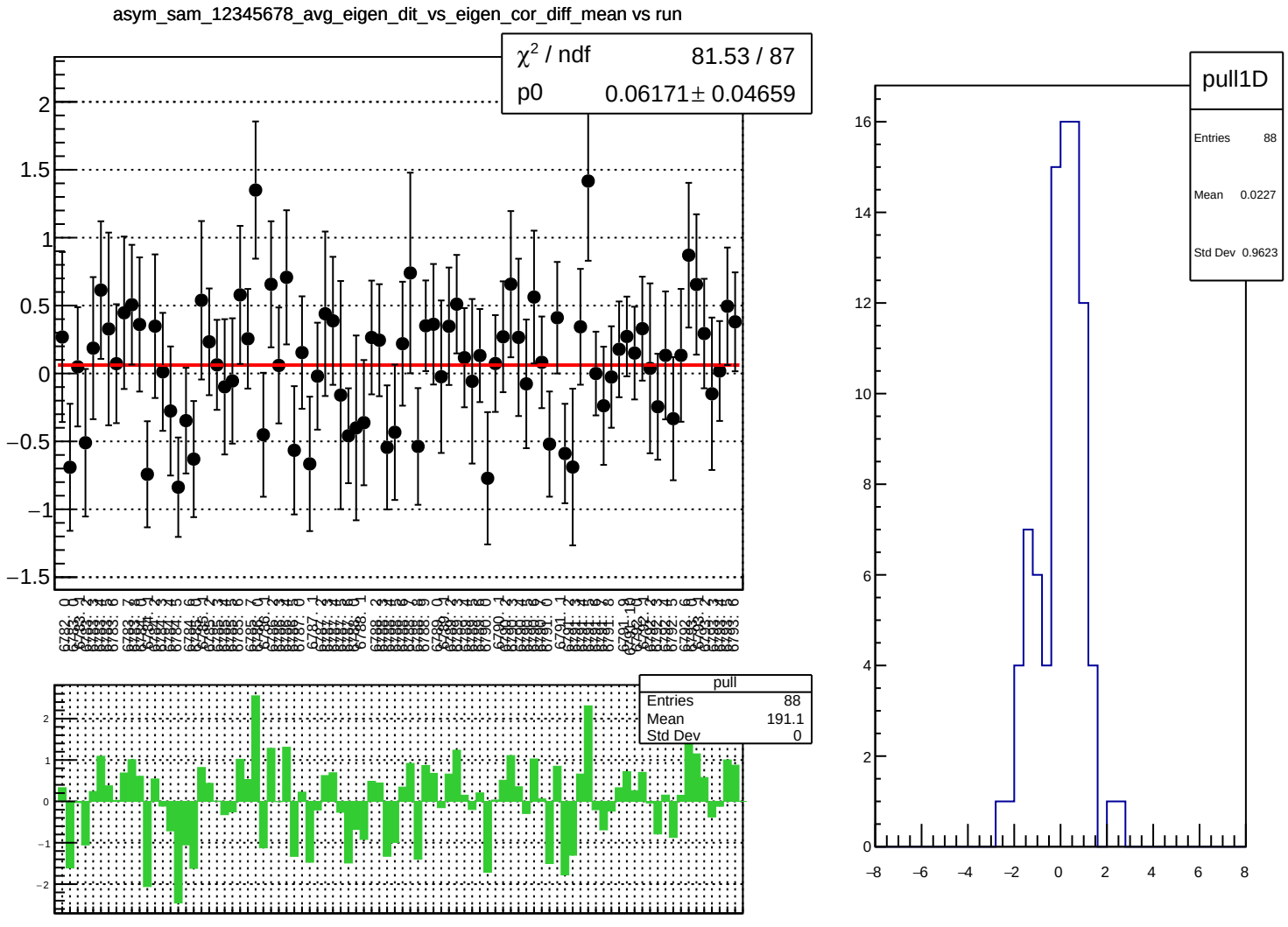

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.922e+04 / 87
p0 41.74 ± 0.03294
80
70
60
50
40
30

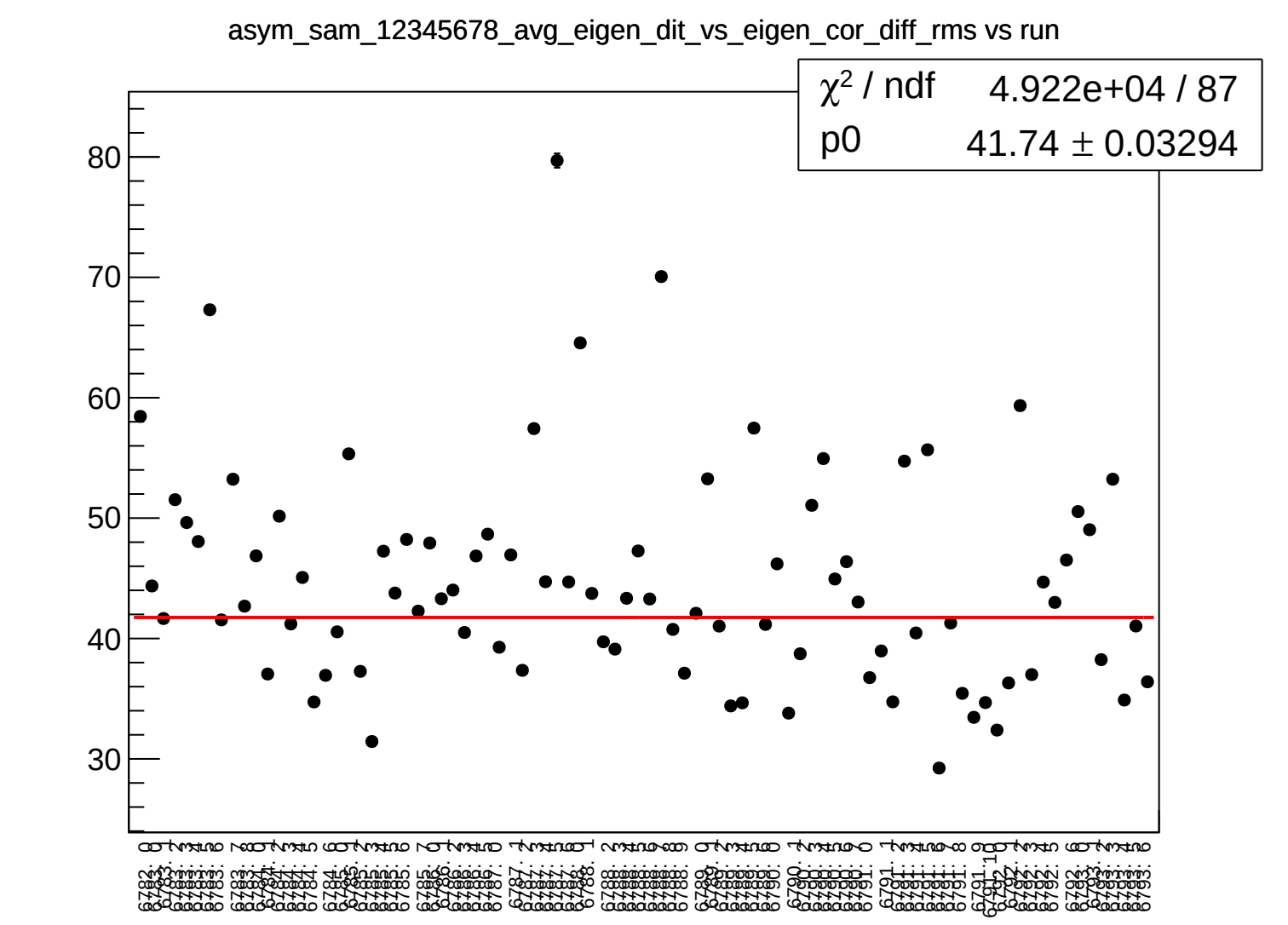

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.42 / 87
p0 1.719e−06 ± 1.576e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean 595.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0008394
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

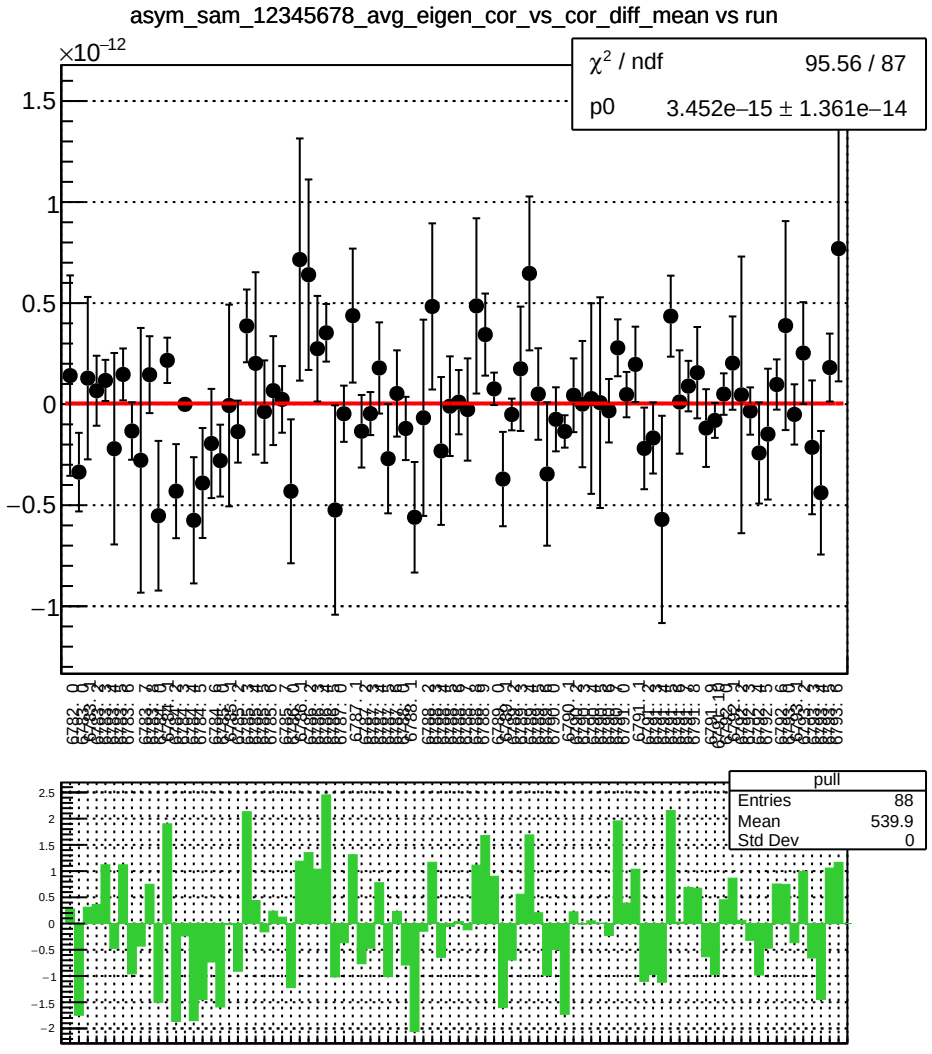

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2727 / 87
p0 0.001433 ± 1.115e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013

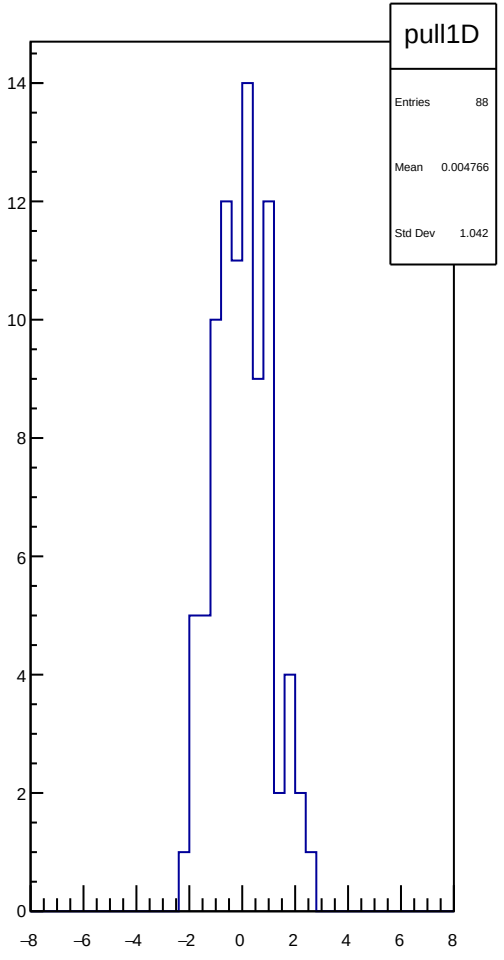

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.53 / 87
p0 0.06171 ± 0.04659
pull
Entries 88
Mean 191.1
Std Dev 0
pull1D
Entries 88
Mean 0.0227
Std Dev 0.9623

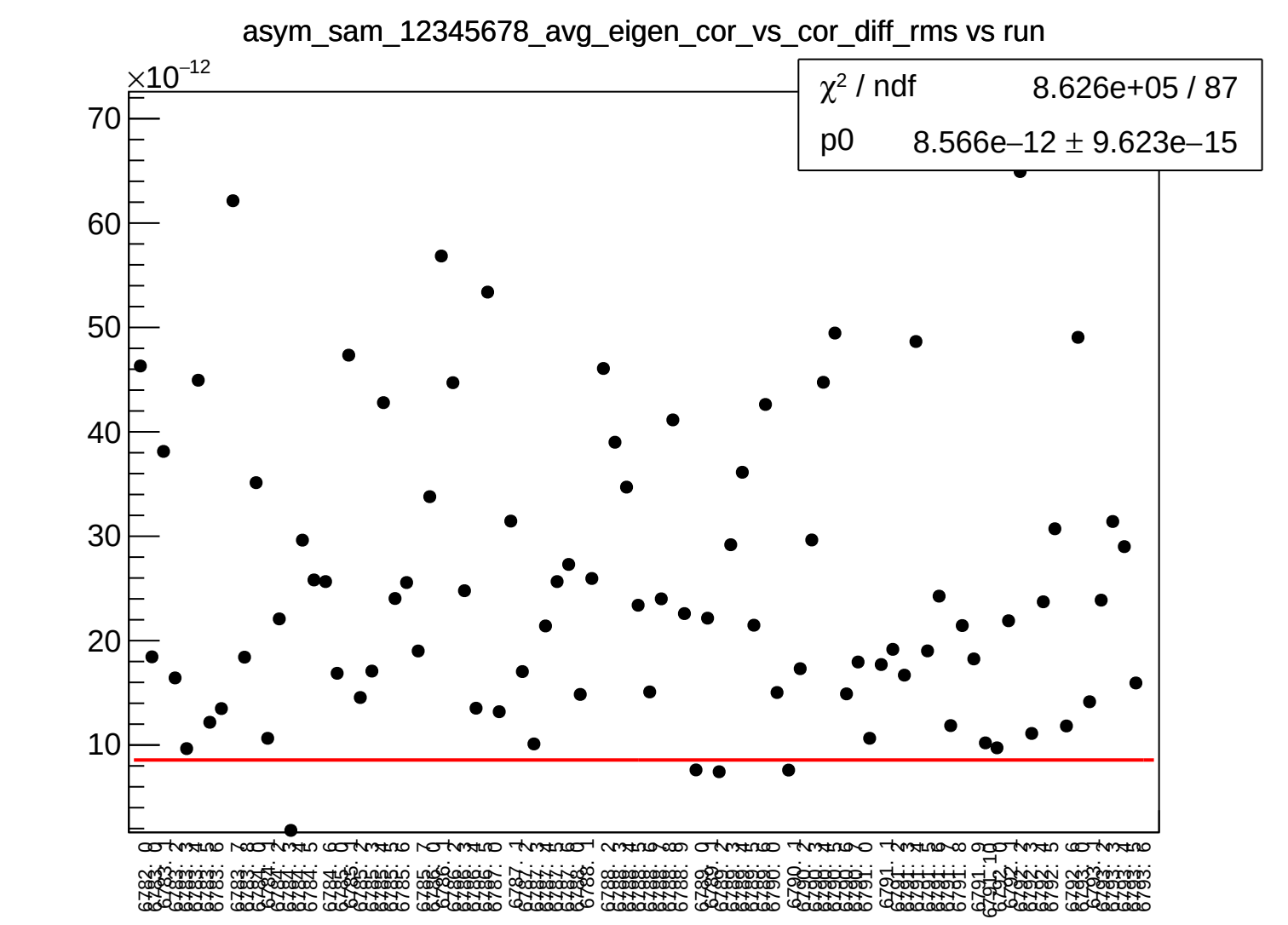

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.922e+04 / 87
p0 41.74 ± 0.03294
80
70
60
50
40
30

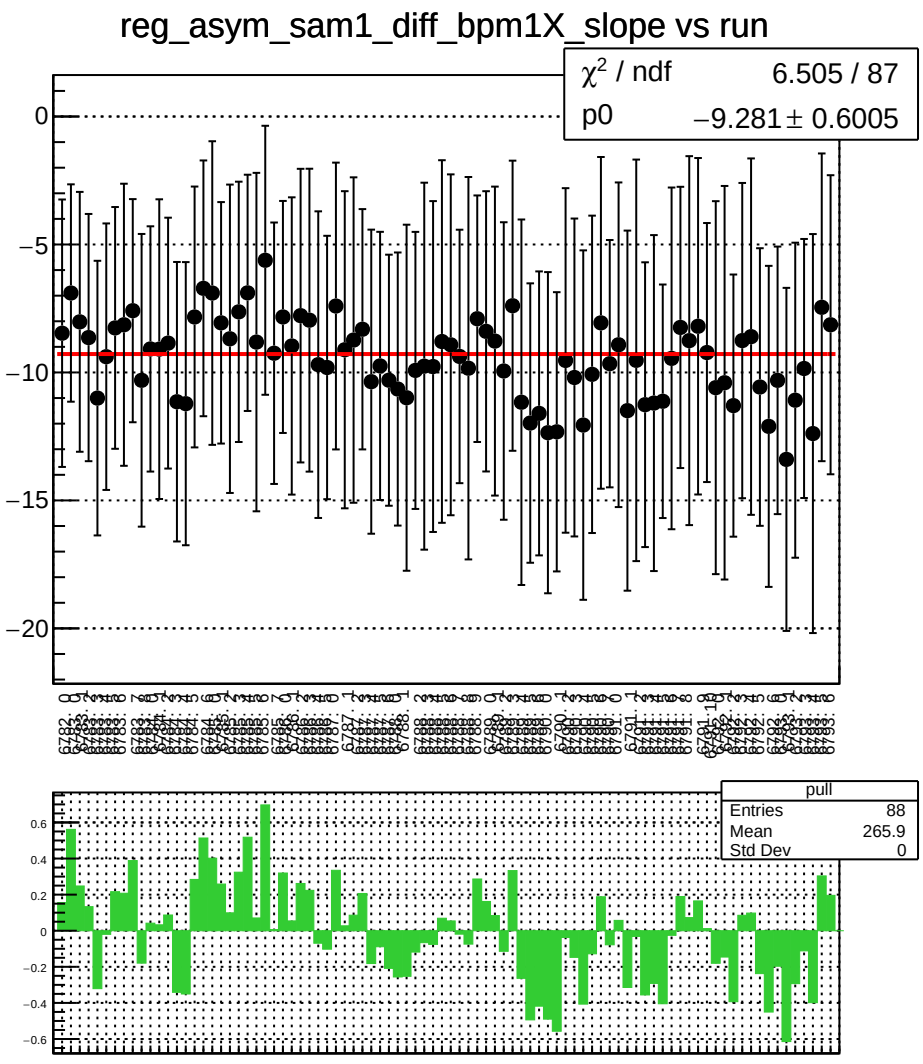

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.53 / 87
p0 0.06171 ± 0.04659
pull
Entries 88
Mean 191.1
Std Dev 0
pull1D
Entries 88
Mean 0.0227
Std Dev 0.9623

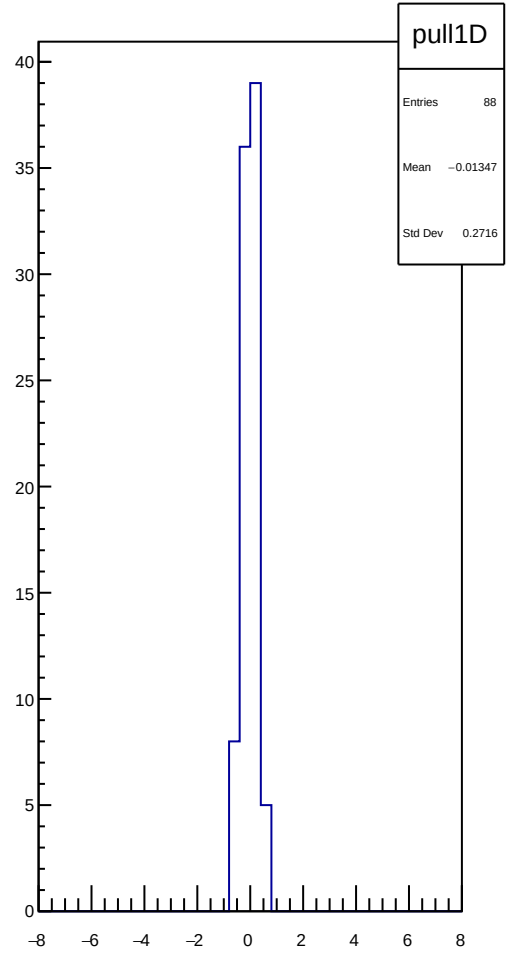

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.922e+04 / 87
p0 41.74 ± 0.03294
80
70
60
50
40
30

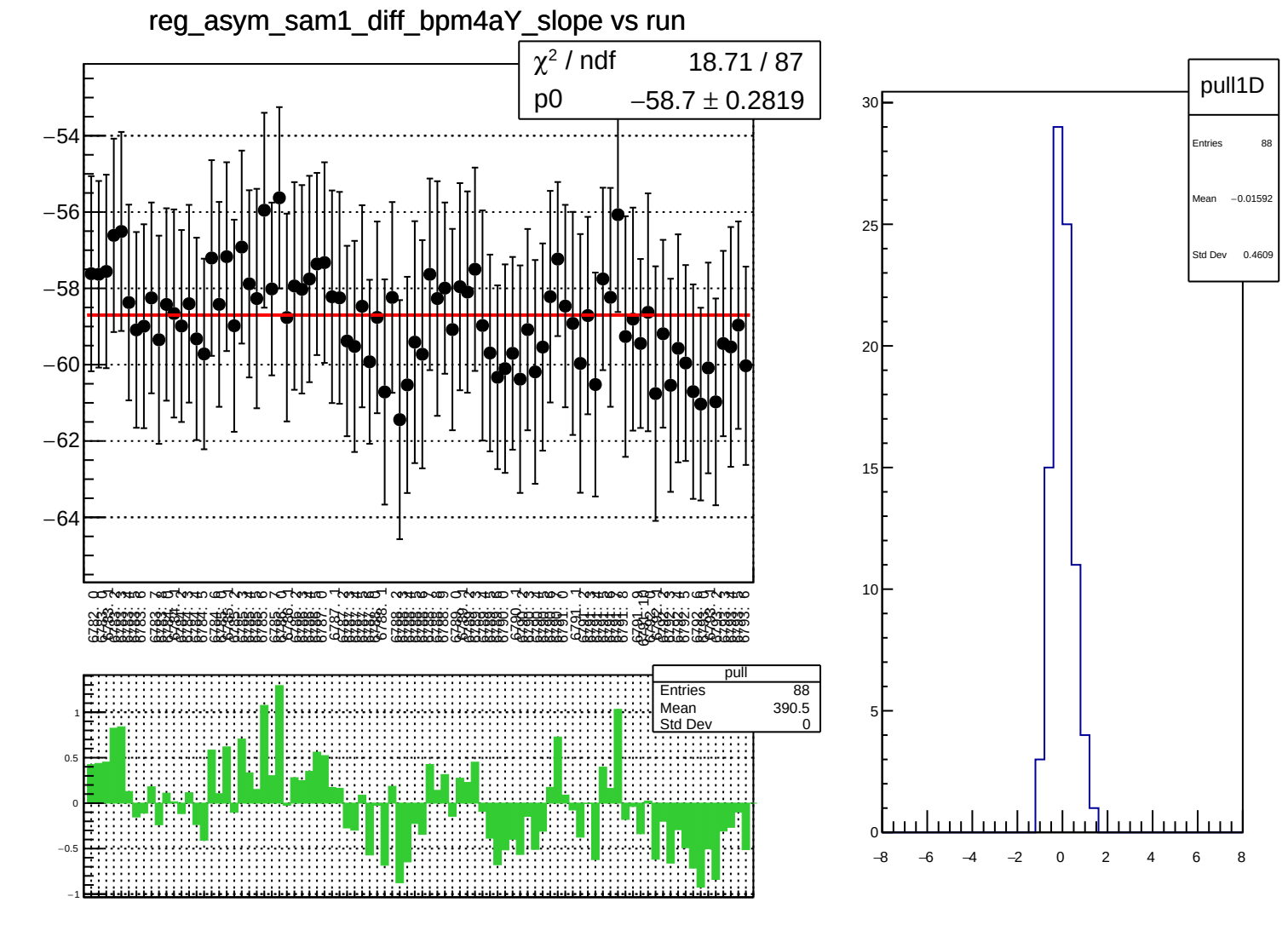

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.56 / 87
p0 3.452e−15 ± 1.361e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 88
Mean 539.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

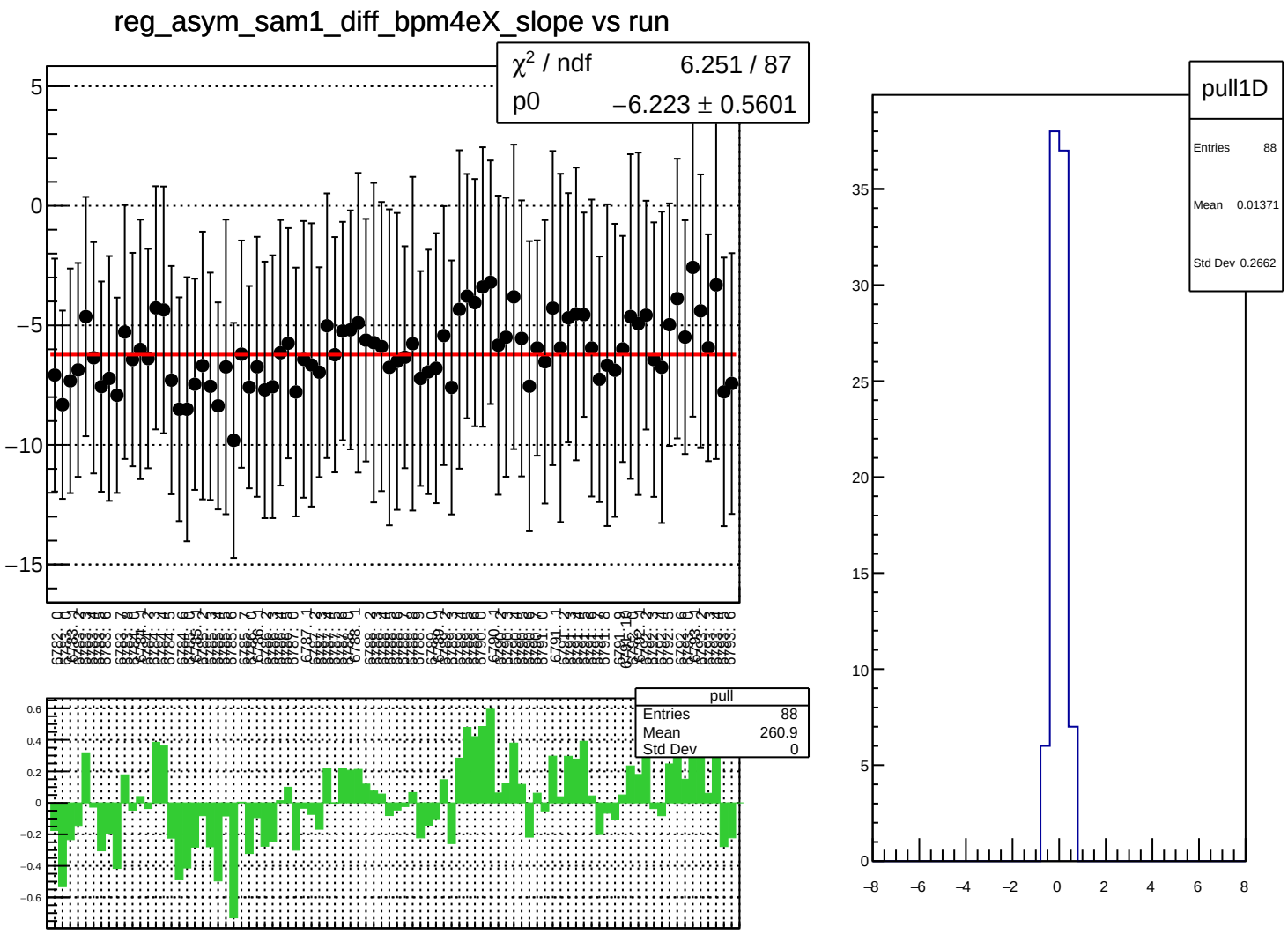

pull1D
Entries 88
Mean 0.004766
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

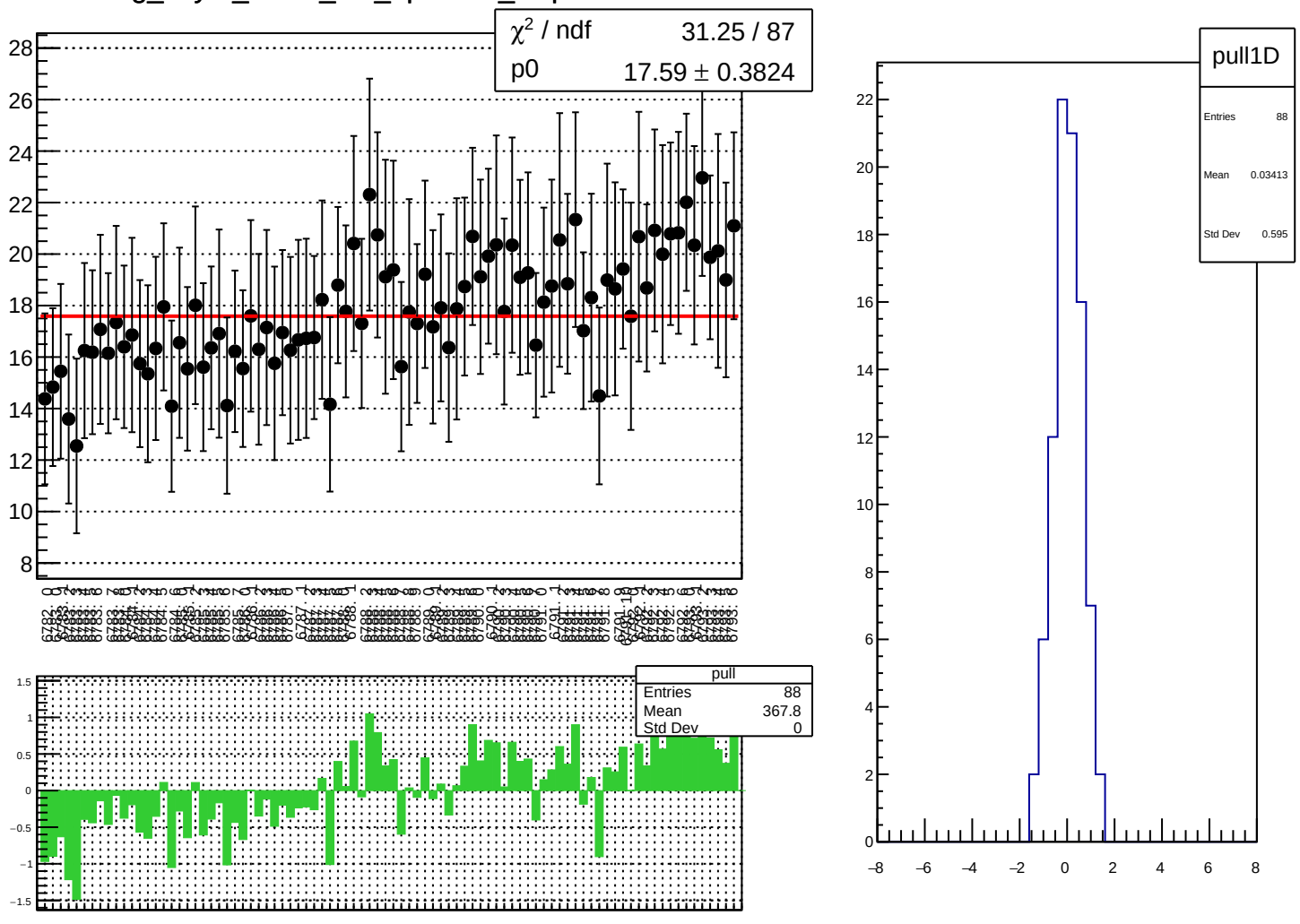

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 8.626e+05 / 87
p0 8.566e−12 ± 9.623e−15

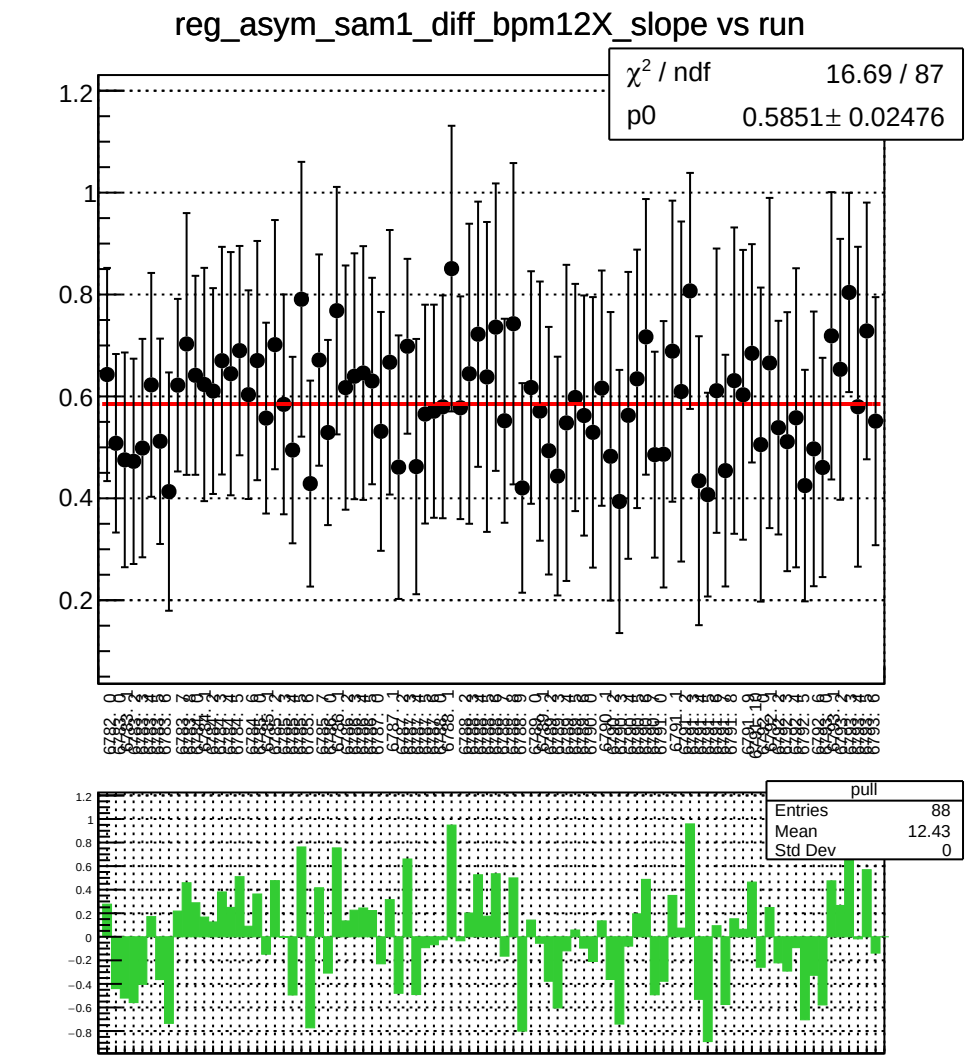

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 6.505 / 87
p0 −9.281 ± 0.6005
pull
Entries 88
Mean 265.9
Std Dev 0

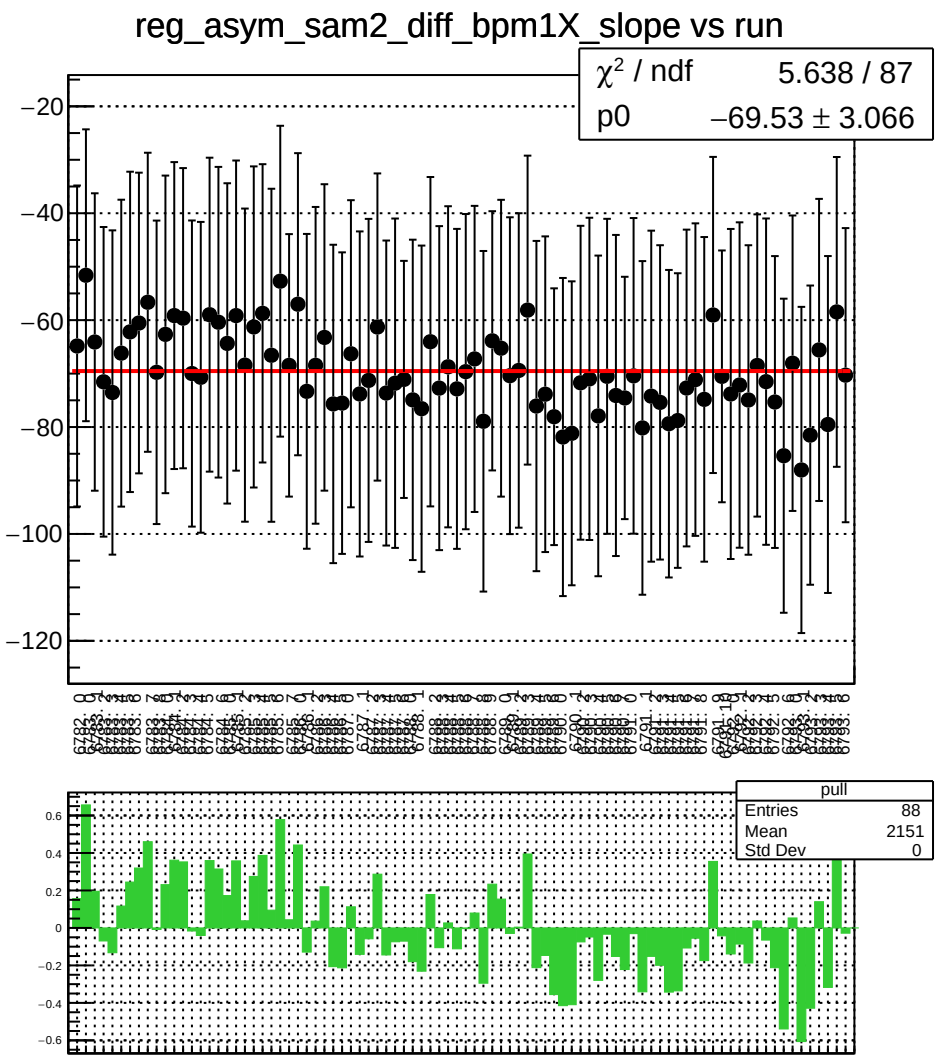

pull1D
Entries 88
Mean −0.01347
Std Dev 0.2716

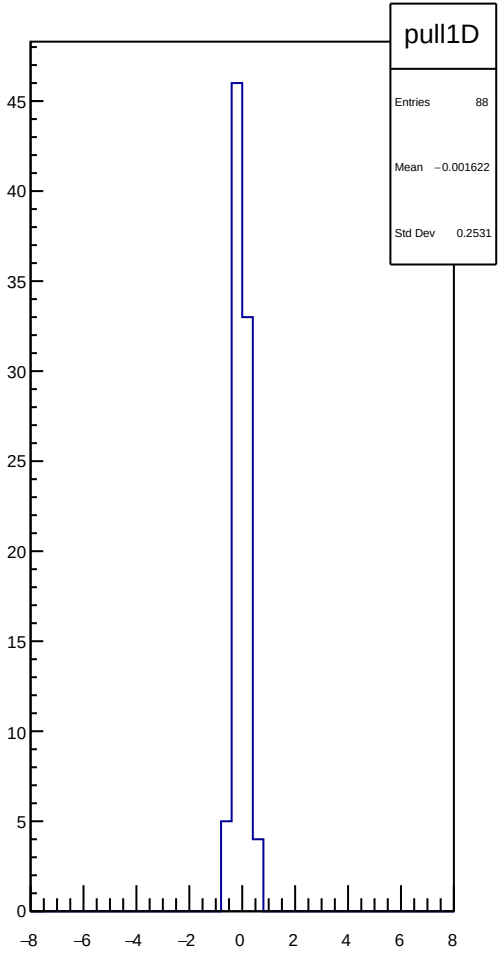

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 18.71 / 87
p0 −58.7 ± 0.2819
−54
−56
−58
−60
−62
−64
pull
Entries 88
Mean 390.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.01592
Std Dev 0.4609
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

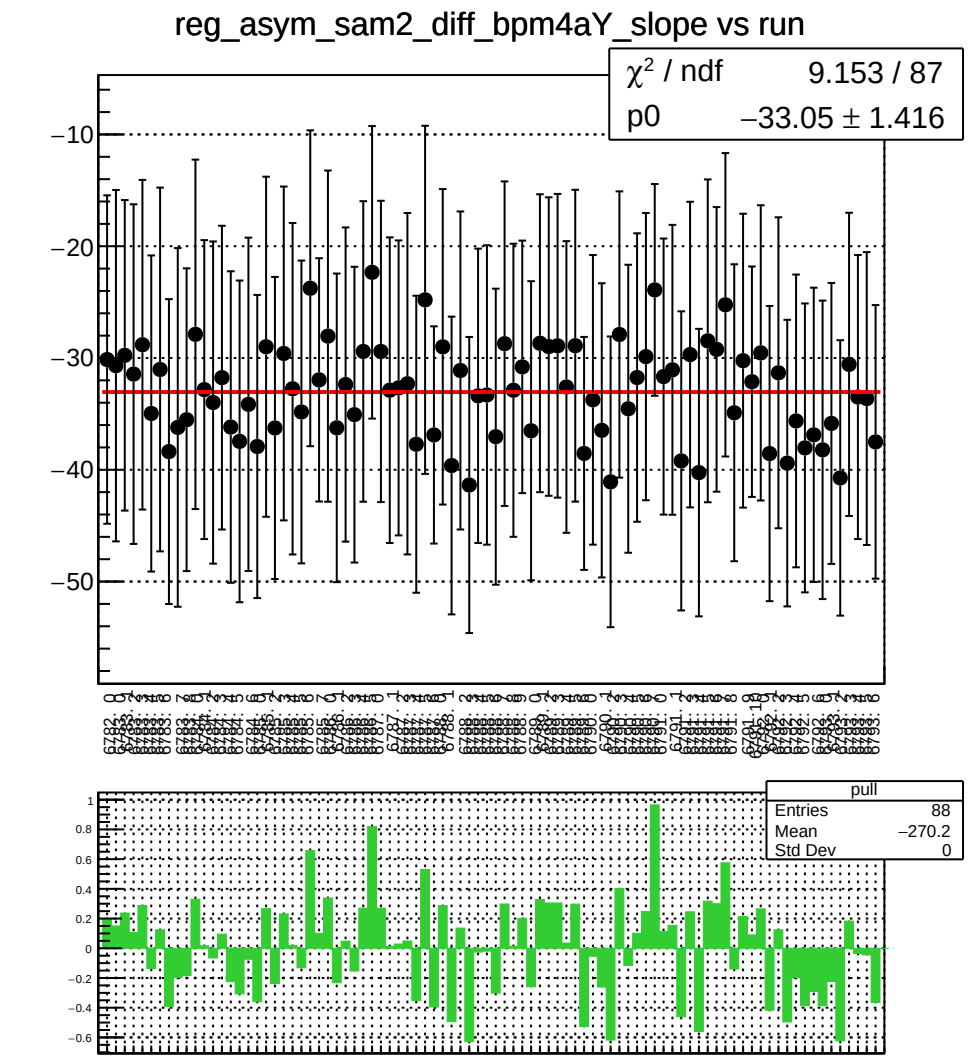

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.251 / 87
p0 −6.223 ± 0.5601
pull
Entries 88
Mean 260.9
Std Dev 0
pull1D
Entries 88
Mean 0.01371
Std Dev 0.2662

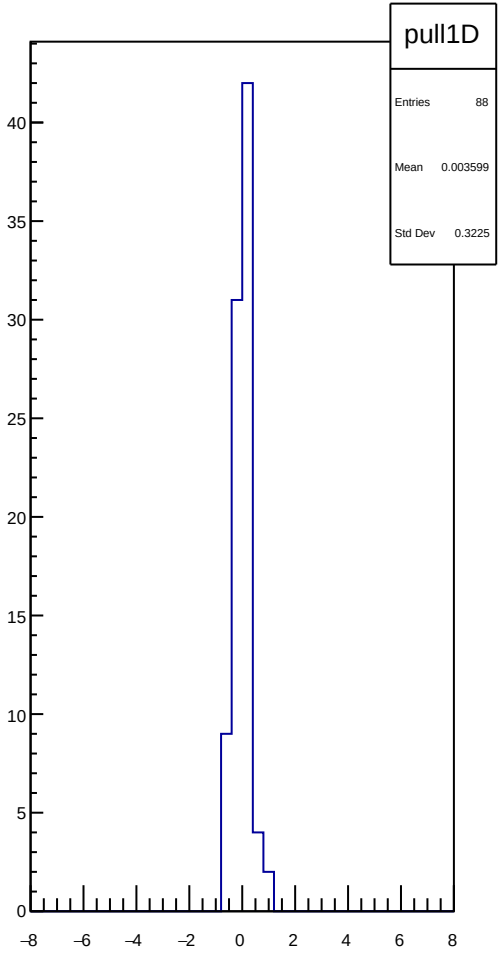

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 31.25 / 87
p0 17.59 ± 0.3824
pull
Entries 88
Mean 367.8
Std Dev 0
pull1D
Entries 88
Mean 0.03413
Std Dev 0.595

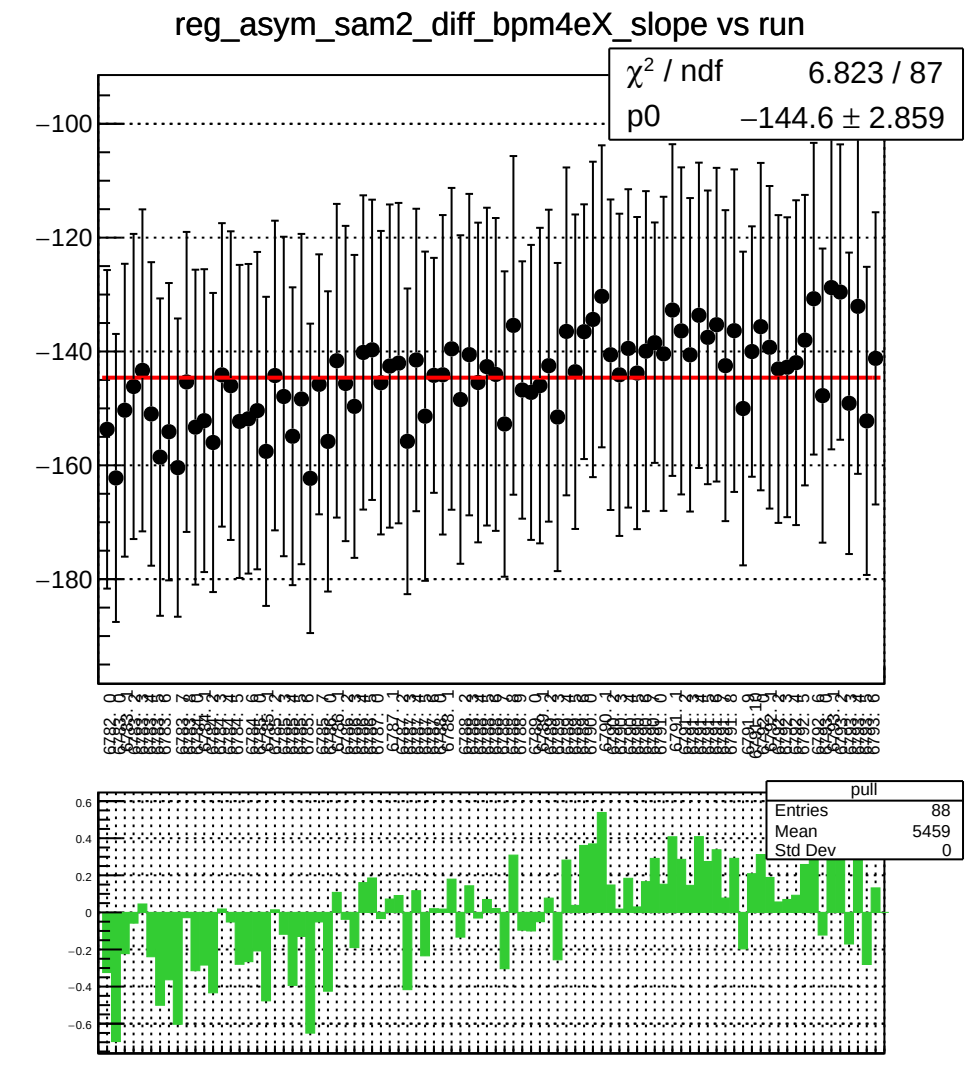

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 16.69 / 87
p0 0.5851± 0.02476
pull
Entries 88
Mean 12.43
Std Dev 0
pull1D
Entries 88
Mean 0.01119
Std Dev 0.4353

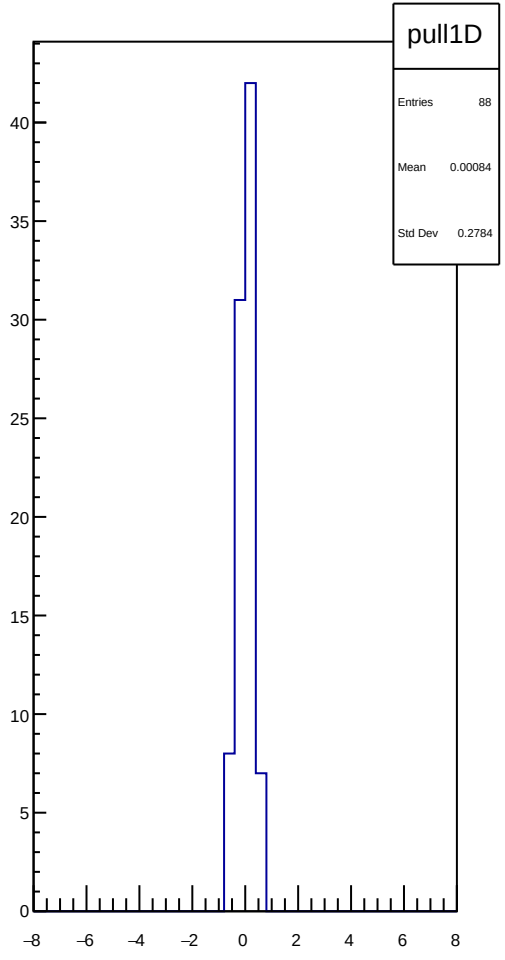

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 5.638 / 87
p0 −69.53 ± 3.066
pull
Entries 88
Mean 2151
Std Dev 0

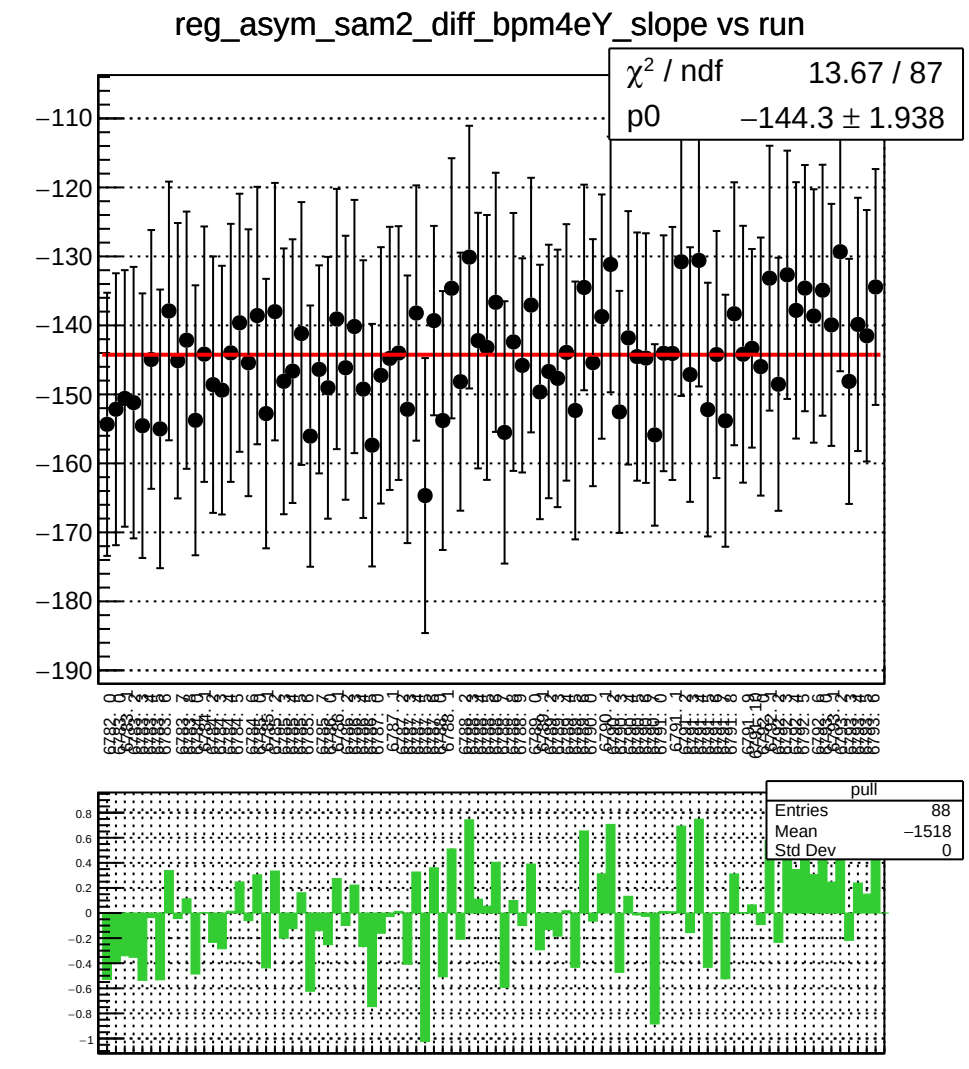

pull1D
Entries 88
Mean −0.001622
Std Dev 0.2531

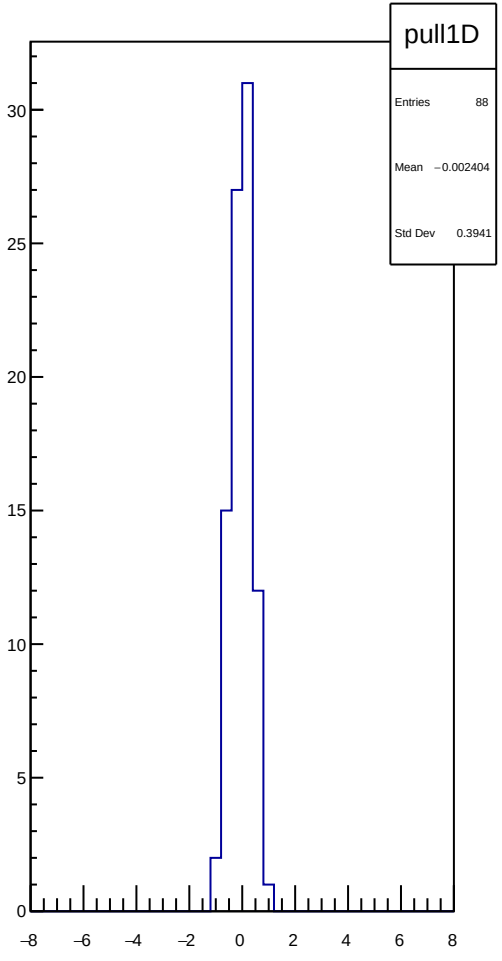

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 9.153 / 87
p0 −33.05 ± 1.416
pull
Entries 88
Mean −270.2
Std Dev 0

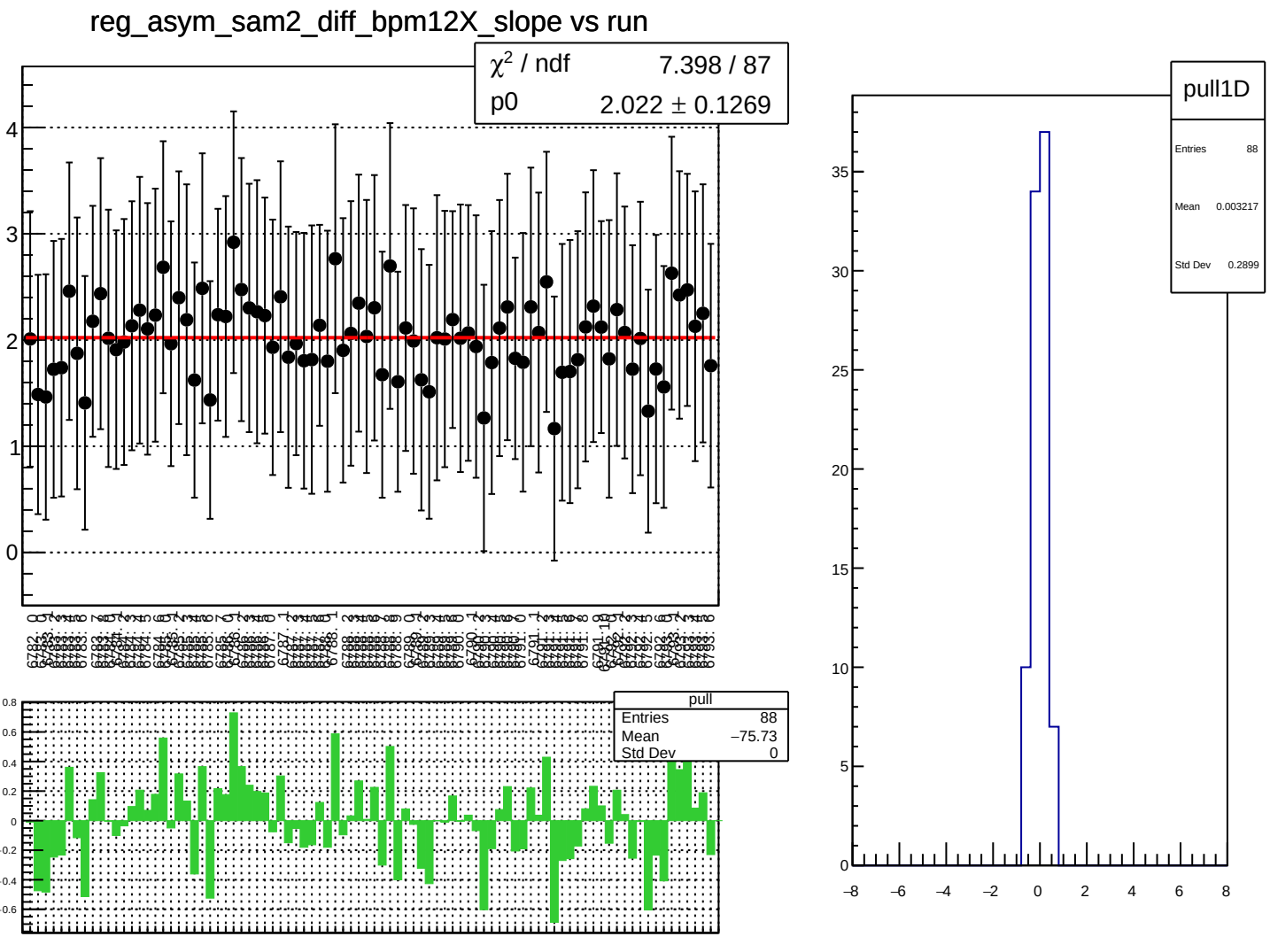

pull1D
Entries 88
Mean 0.003599
Std Dev 0.3225

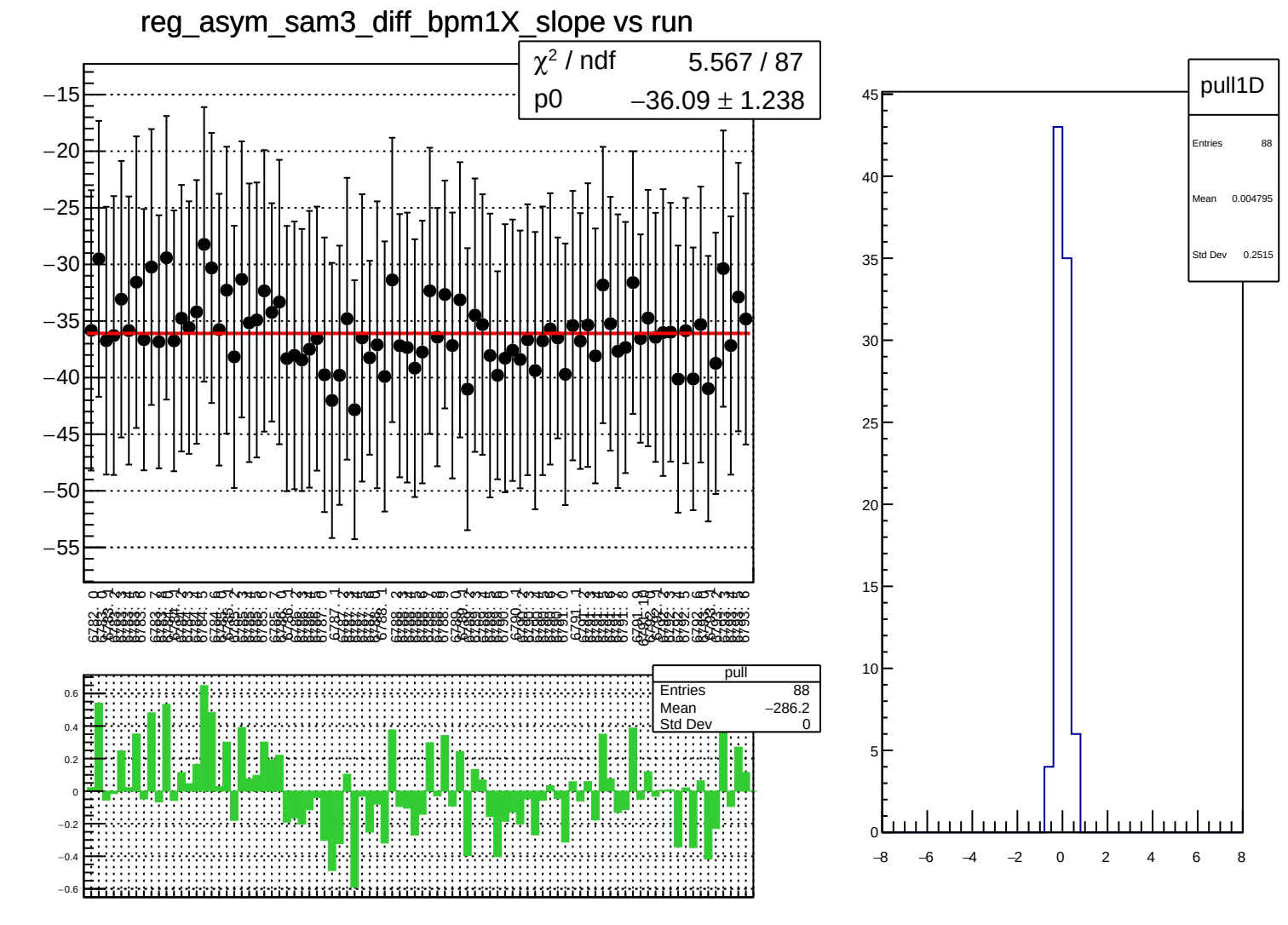

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 6.823 / 87
p0 −144.6 ± 2.859
−100
−120
−140
−160
−180
pull
Entries 88
Mean 5459
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

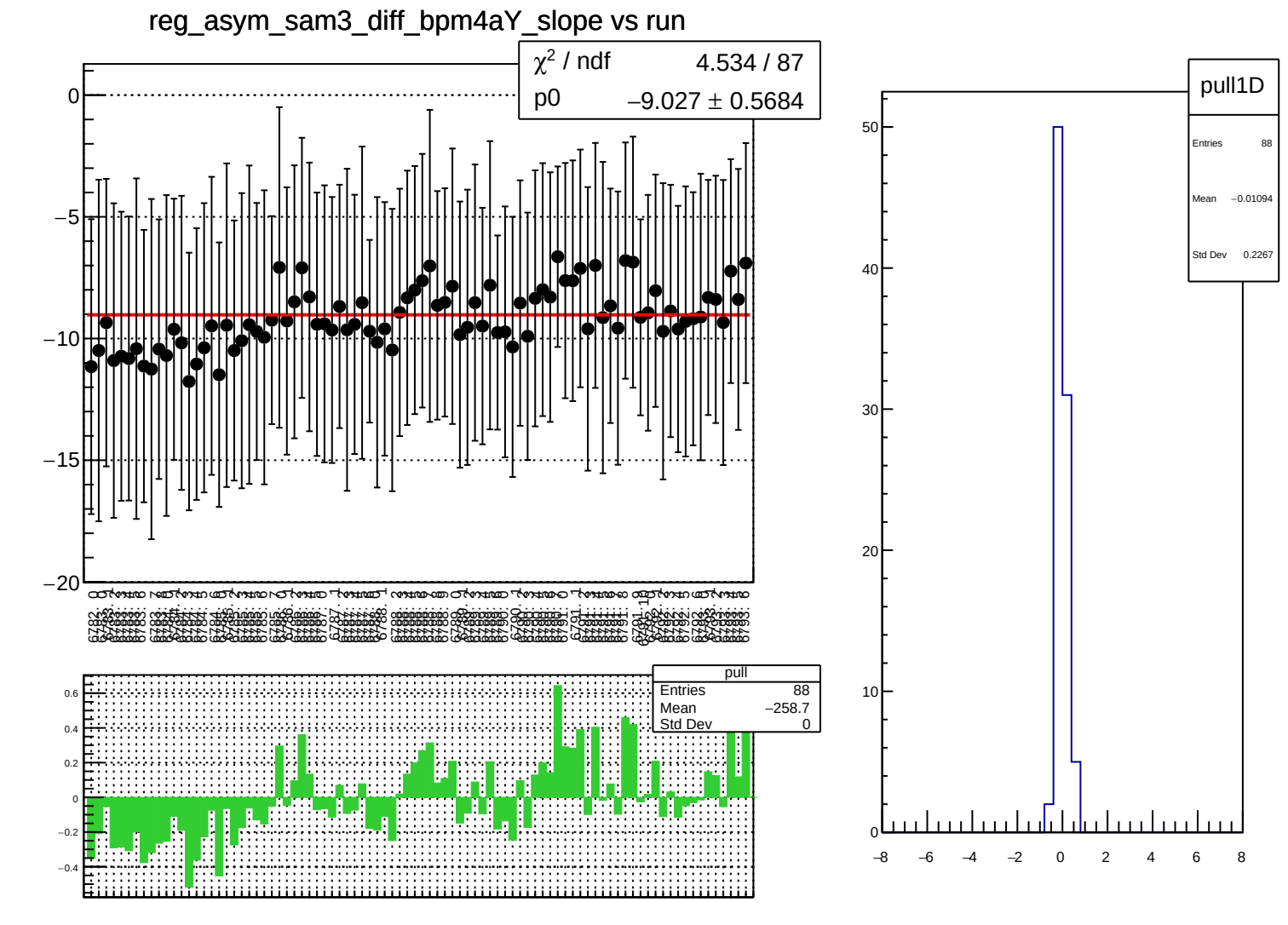

pull1D
Entries 88
Mean 0.00084
Std Dev 0.2784
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

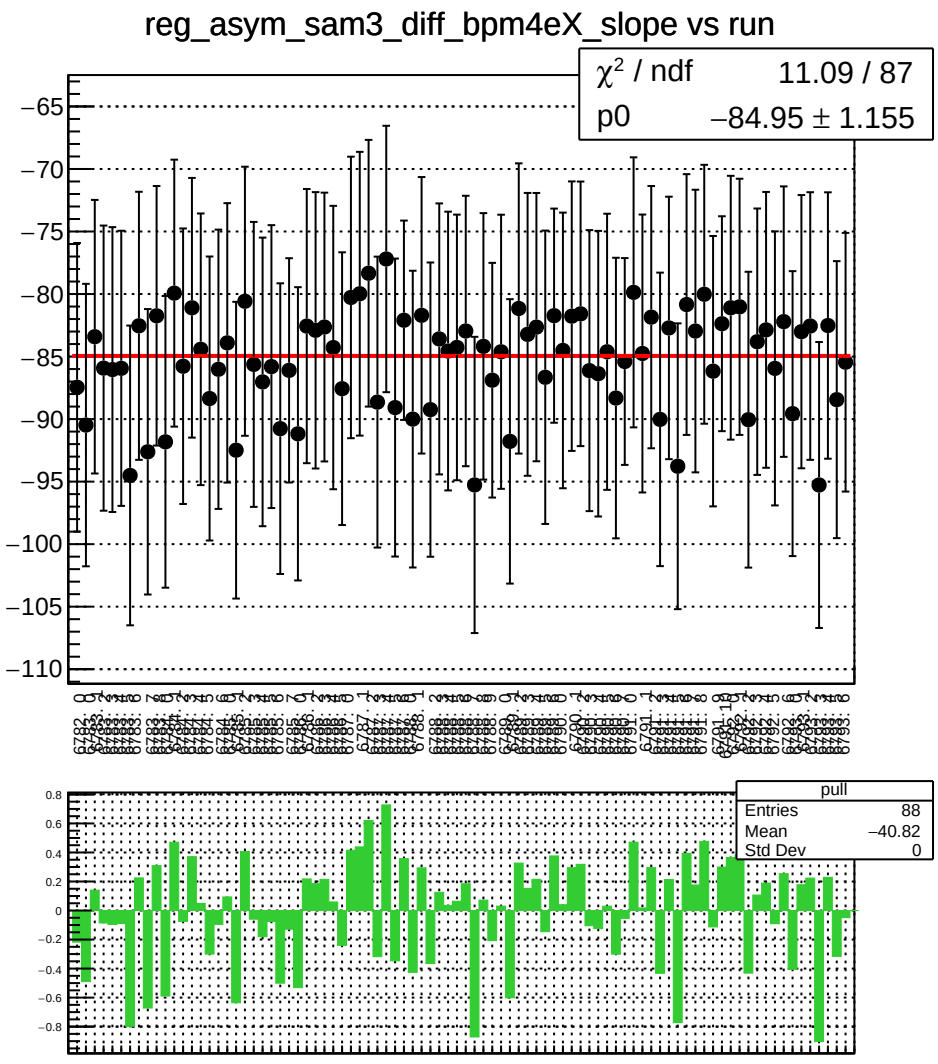

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 13.67 / 87
p0 −144.3 ± 1.938
pull
Entries 88
Mean −1518
Std Dev 0

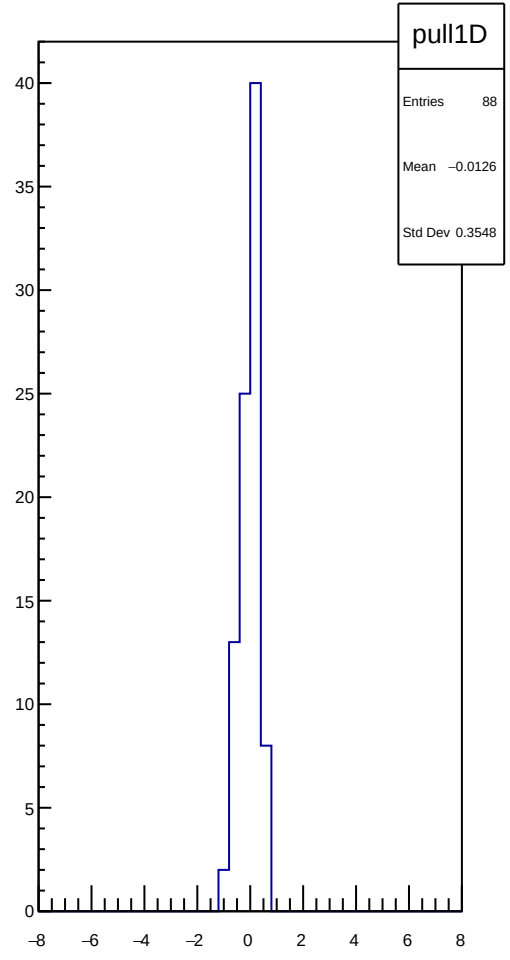

pull1D
Entries 88
Mean −0.002404
Std Dev 0.3941

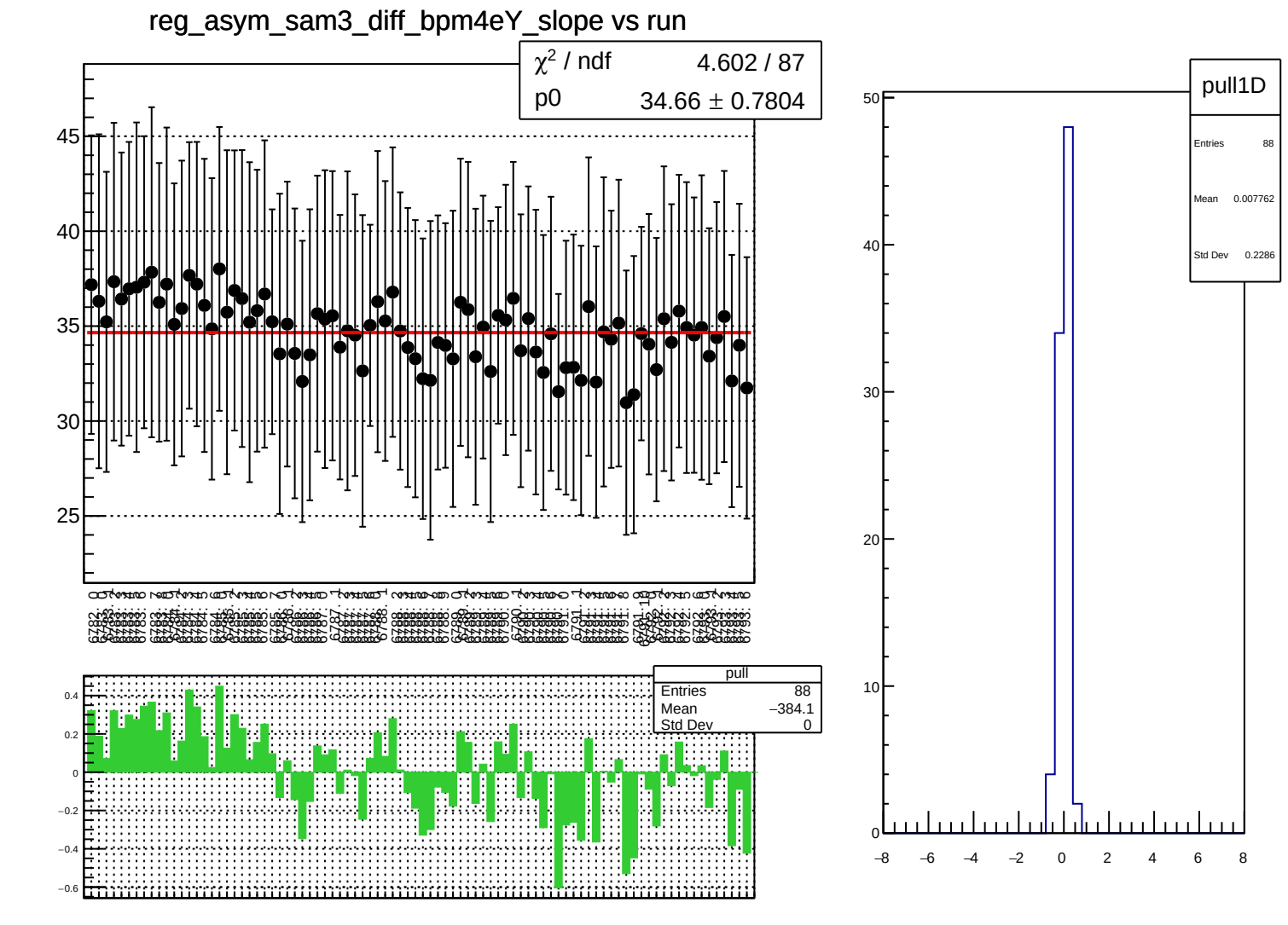

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 7.398 / 87
p0 2.022 ± 0.1269
pull
Entries 88
Mean −75.73
Std Dev 0
pull1D
Entries 88
Mean 0.003217
Std Dev 0.2899

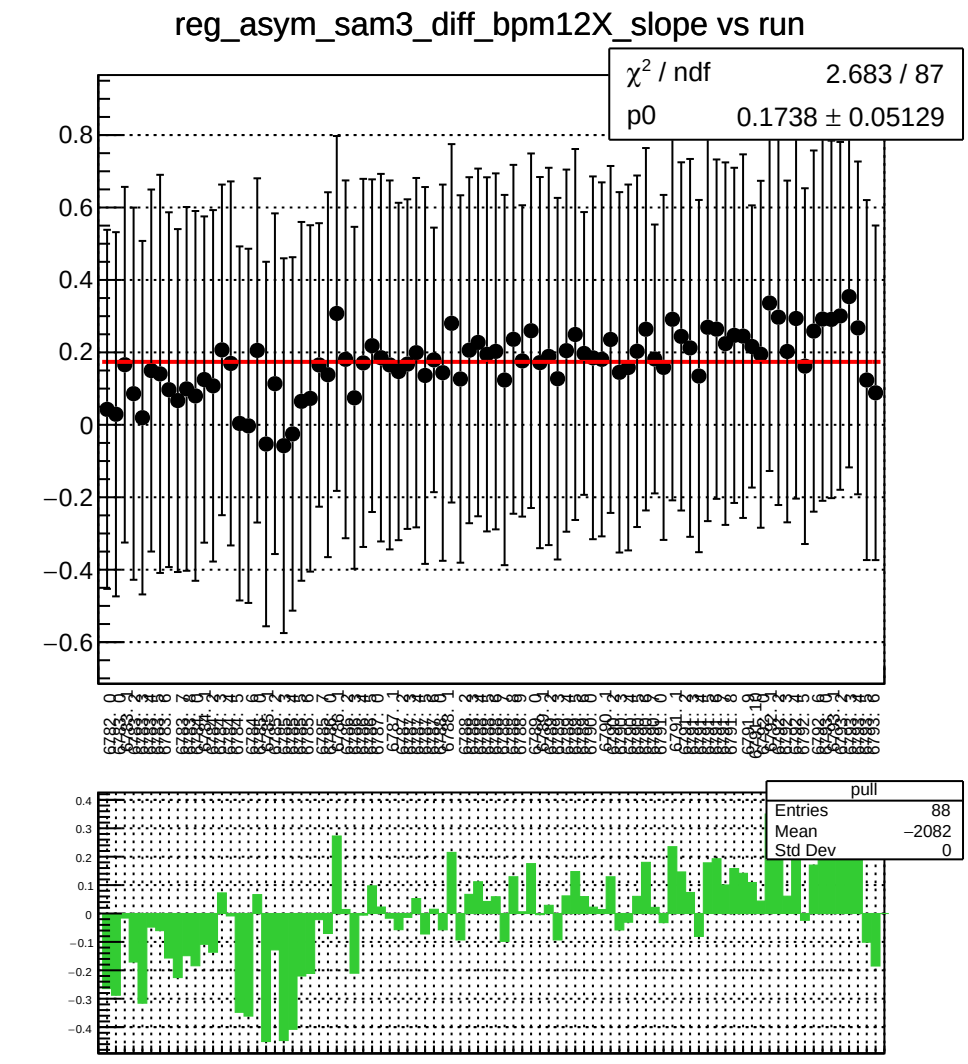

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 5.567 / 87
p0 −36.09 ± 1.238
pull
Entries 88
Mean −286.2
Std Dev 0
pull1D
Entries 88
Mean 0.004795
Std Dev 0.2515

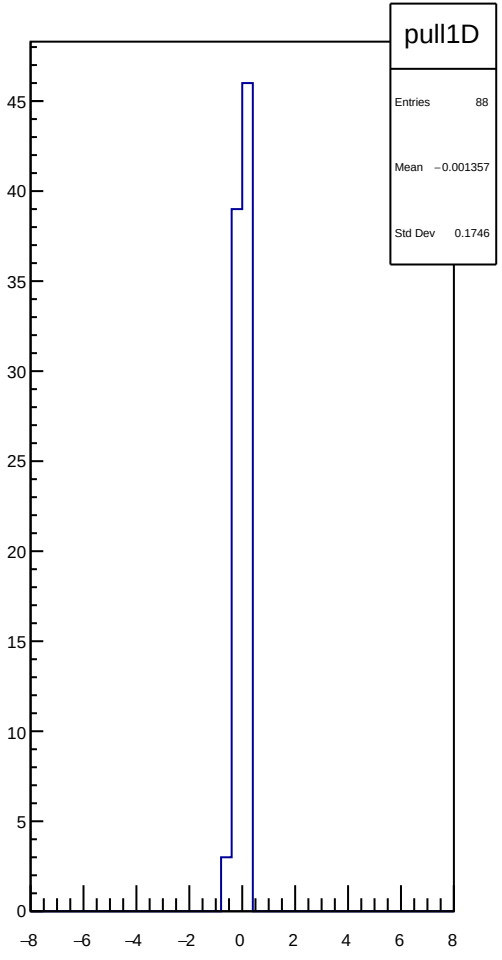

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.534 / 87
p0 −9.027 ± 0.5684
pull
Entries 88
Mean −258.7
Std Dev 0
pull1D
Entries 88
Mean −0.01094
Std Dev 0.2267

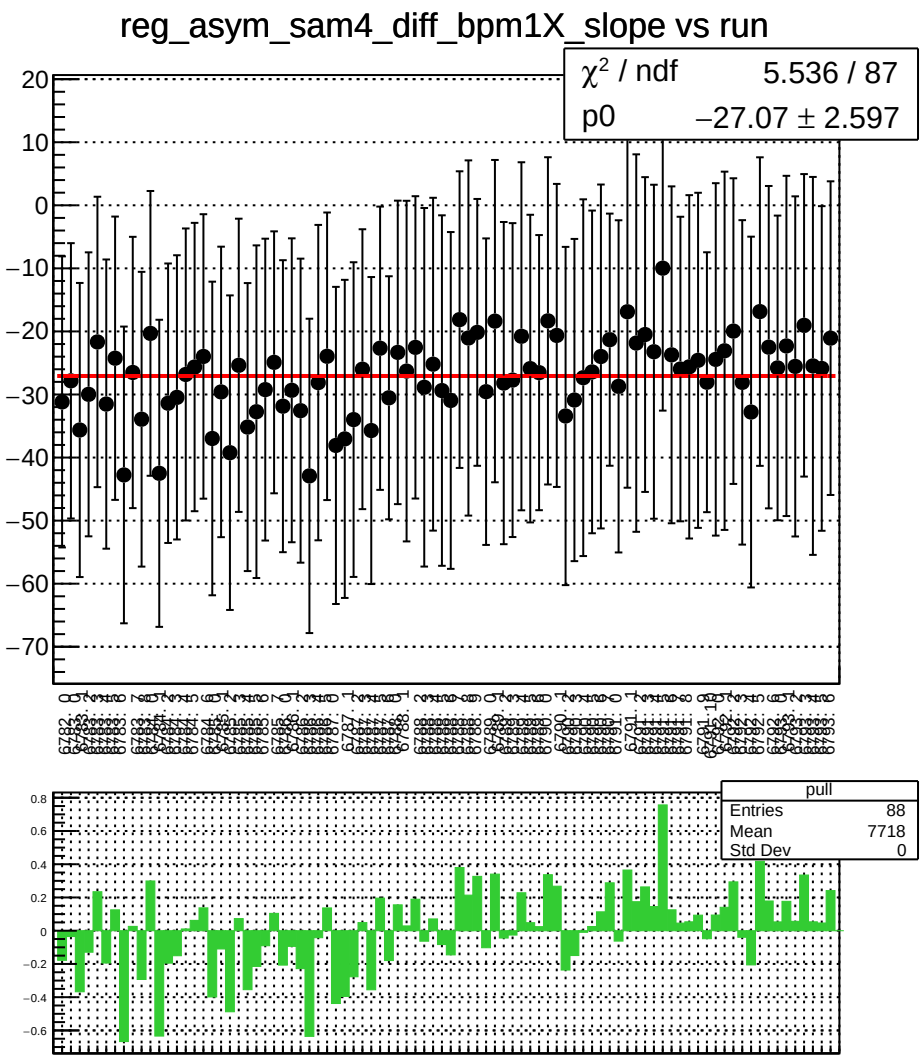

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 11.09 / 87
p0 −84.95 ± 1.155
pull
Entries 88
Mean −40.82
Std Dev 0

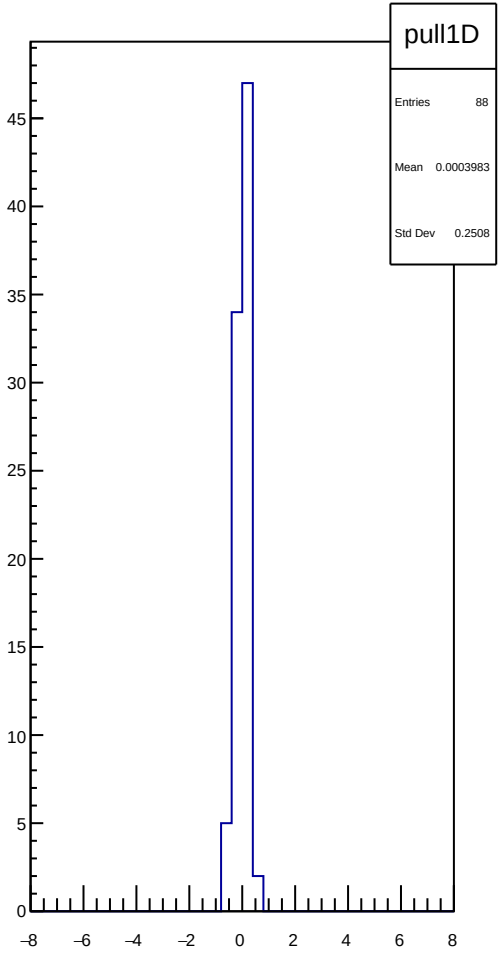

pull1D
Entries 88
Mean −0.0126
Std Dev 0.3548

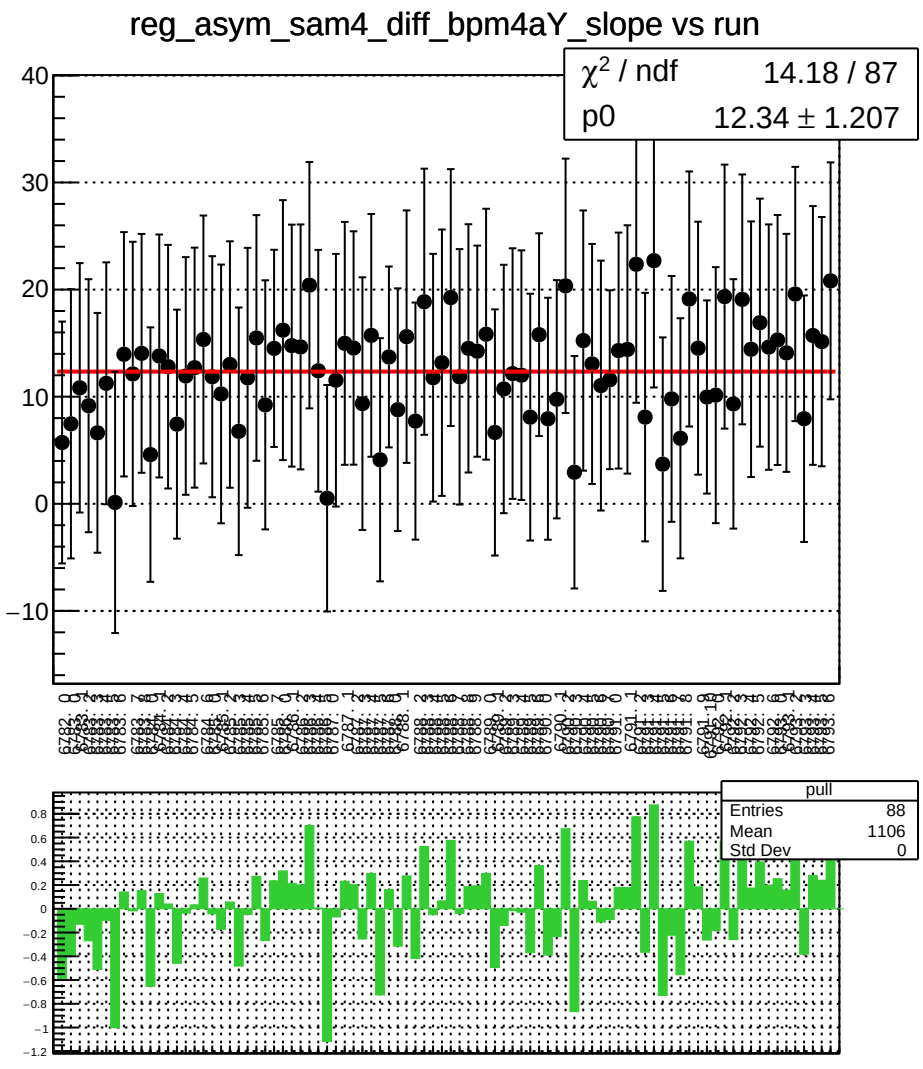

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.602 / 87
p0 34.66 ± 0.7804
pull
Entries 88
Mean −384.1
Std Dev 0
pull1D
Entries 88
Mean 0.007762
Std Dev 0.2286

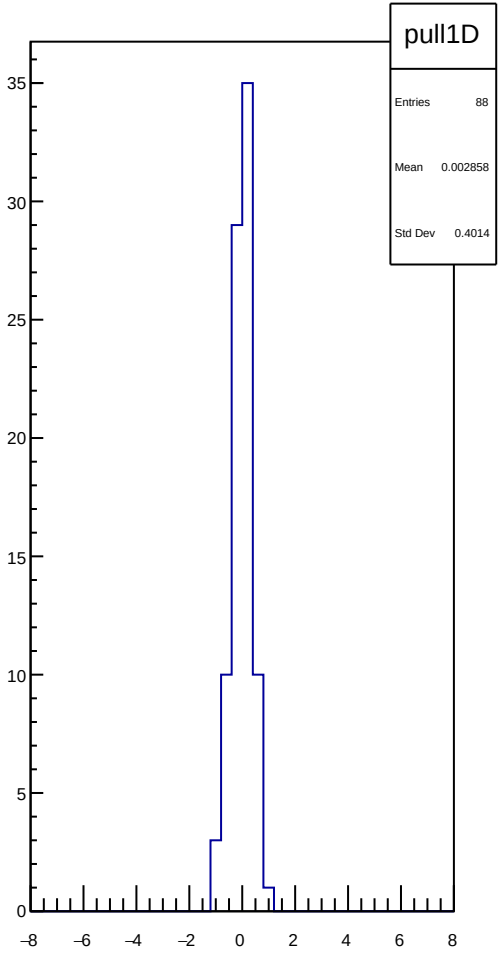

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.683 / 87
p0 0.1738 ± 0.05129
pull
Entries 88
Mean −2082
Std Dev 0

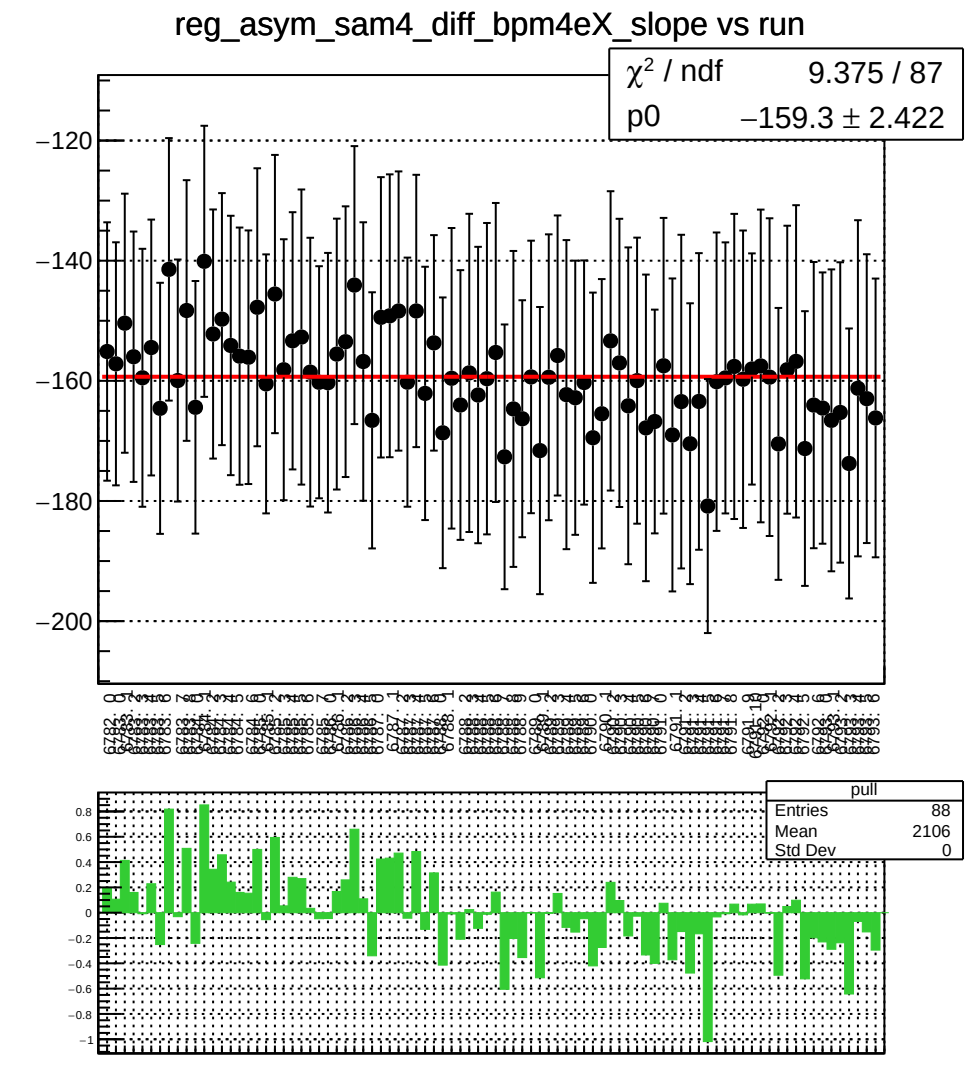

pull1D
Entries 88
Mean −0.001357
Std Dev 0.1746

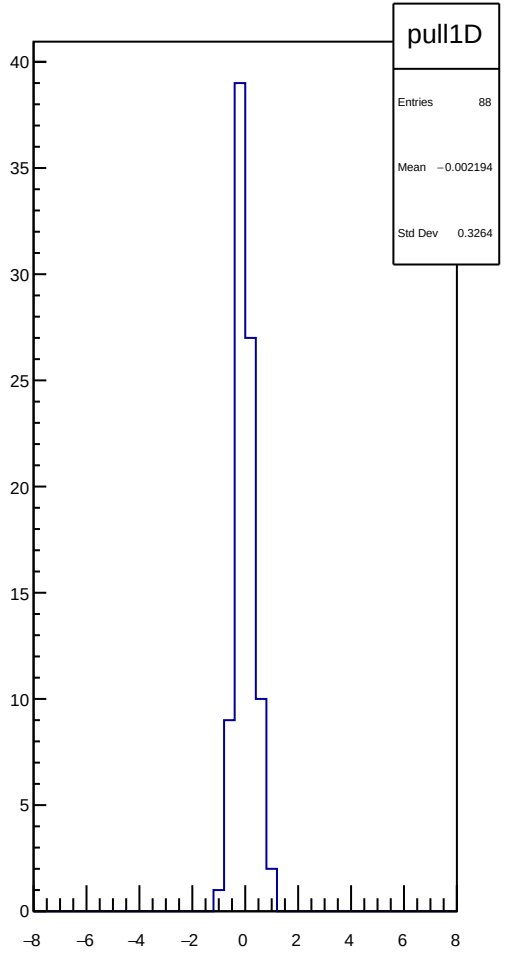

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 5.536 / 87
p0 −27.07 ± 2.597
pull
Entries 88
Mean 7718
Std Dev 0

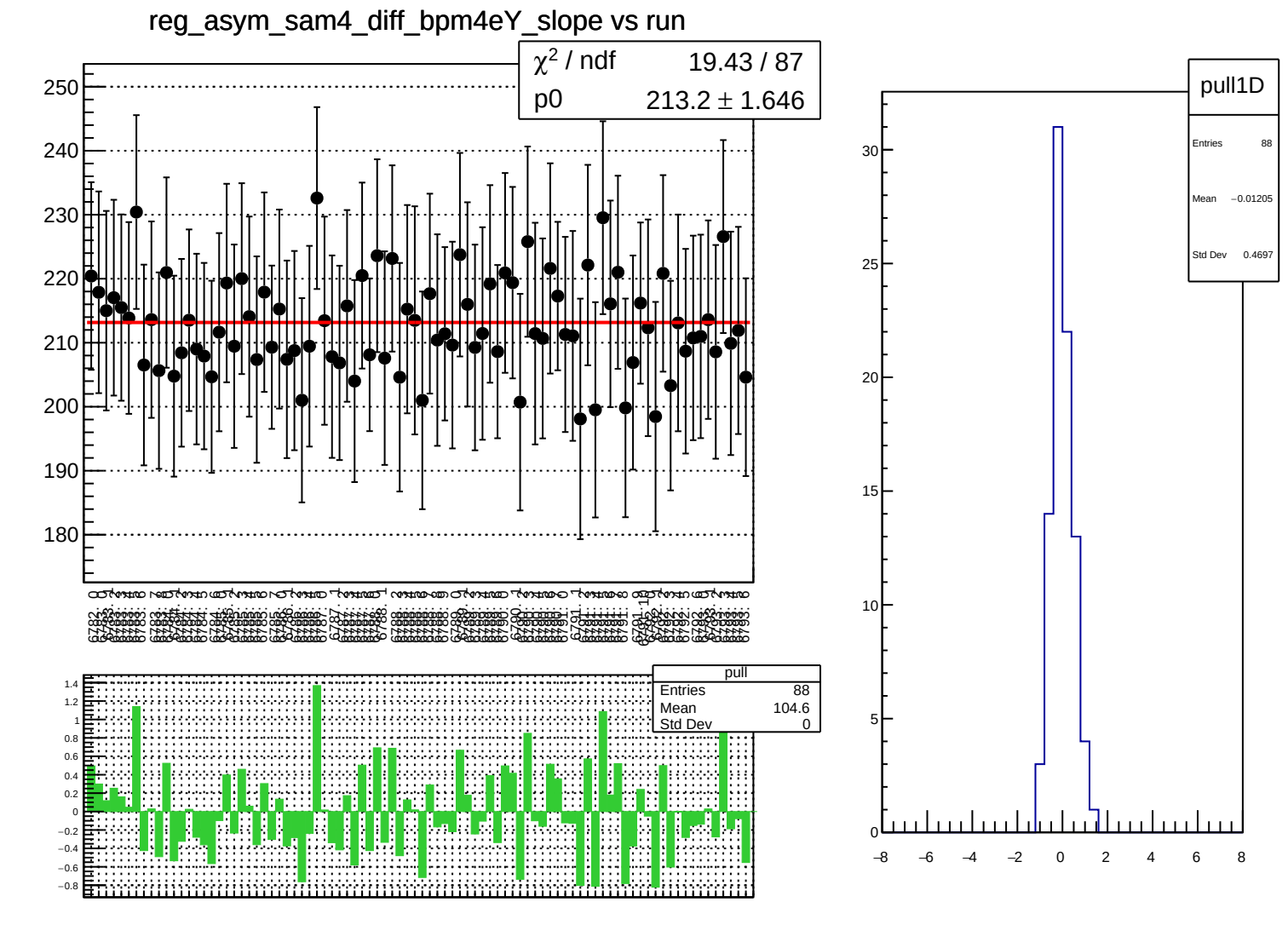

pull1D
Entries 88
Mean 0.0003983
Std Dev 0.2508

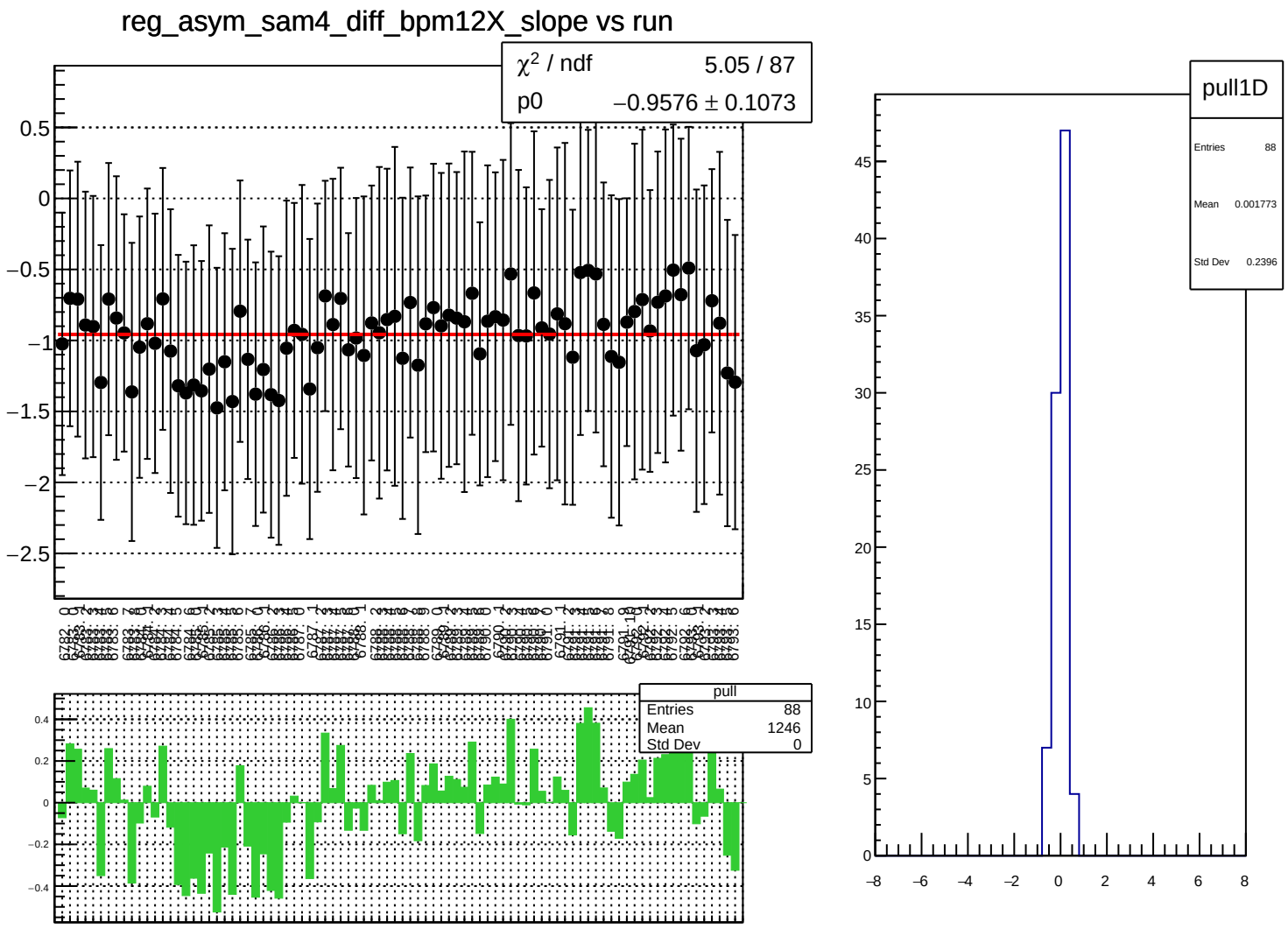

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 14.18 / 87
p0 12.34 ± 1.207
pull
Entries 88
Mean 1106
Std Dev 0

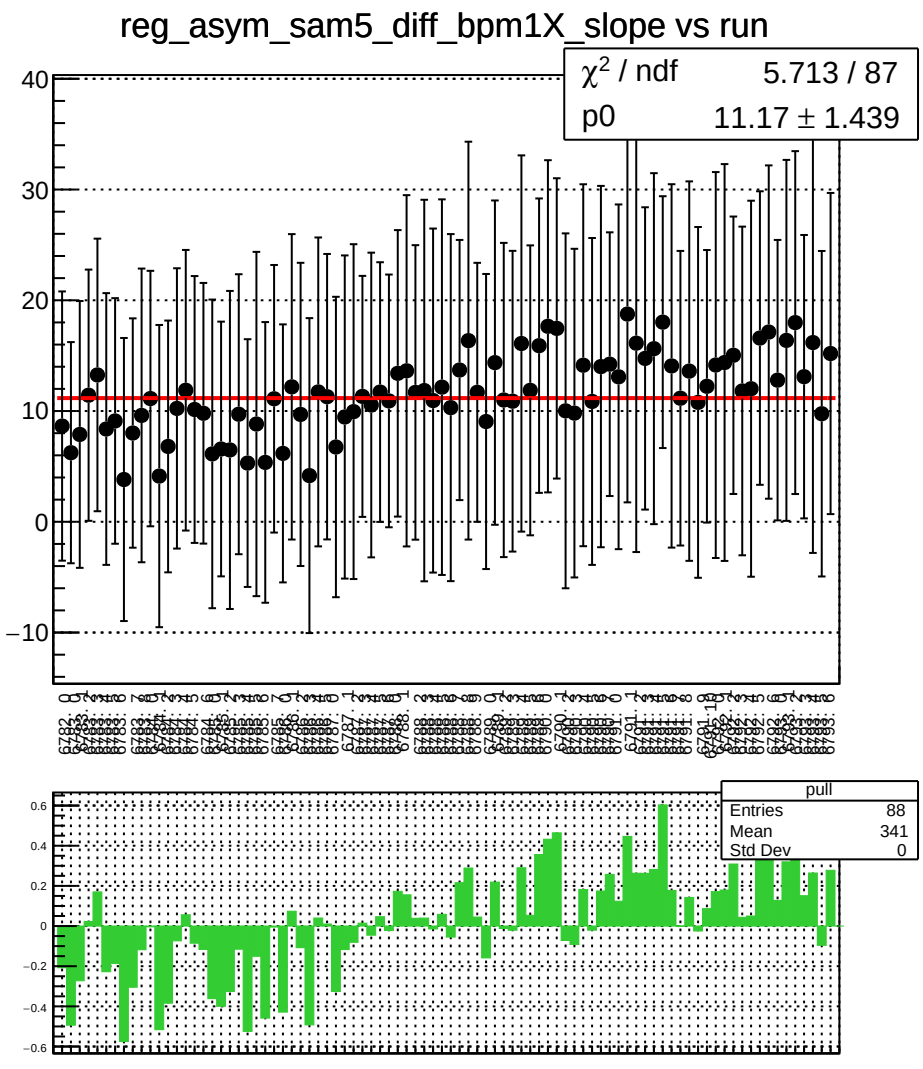

pull1D
Entries 88
Mean 0.002858
Std Dev 0.4014

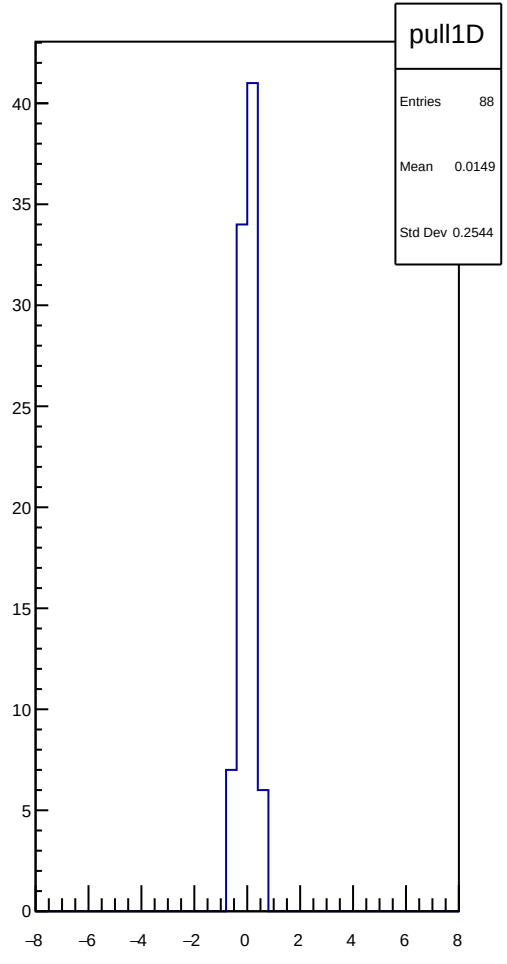

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 9.375 / 87
p0 −159.3 ± 2.422
−120
−140
−160
−180
−200
pull
Entries 88
Mean 2106
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

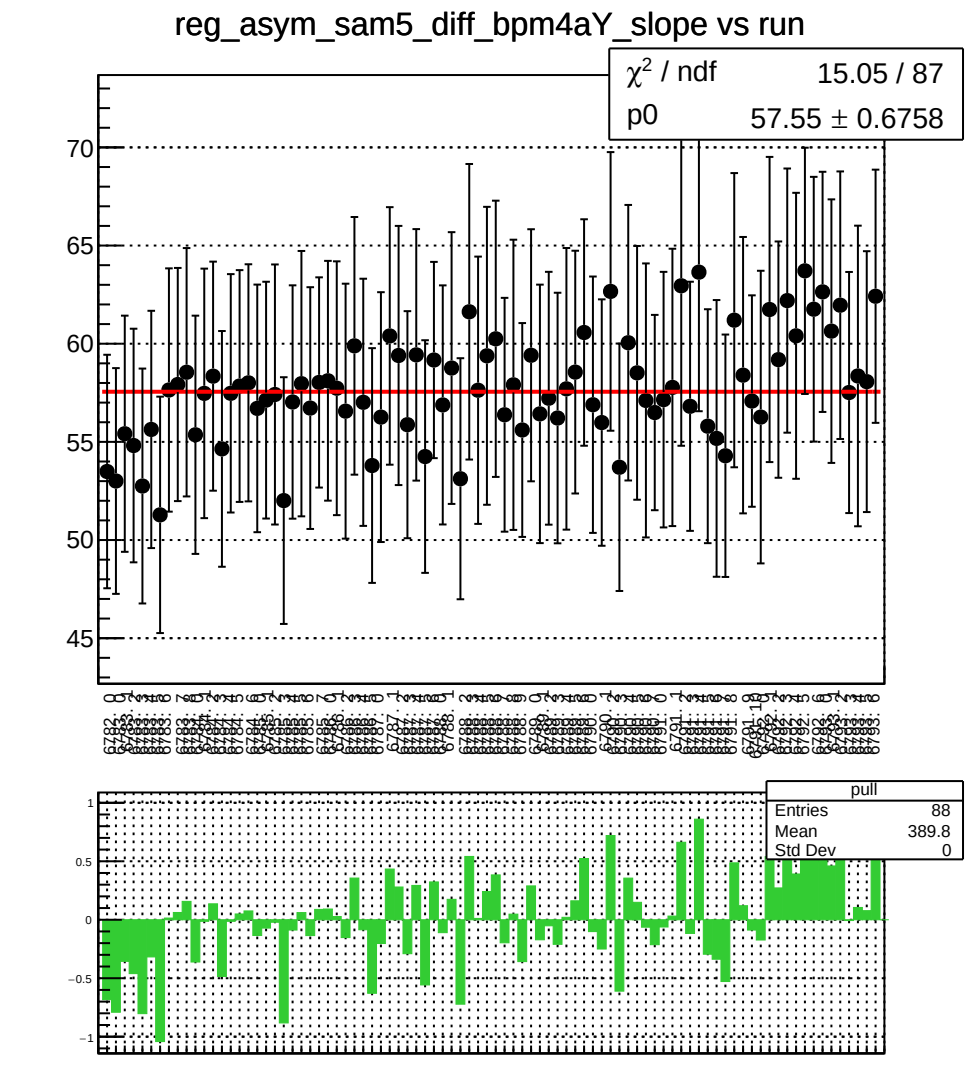

pull1D
Entries 88
Mean −0.002194
Std Dev 0.3264
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

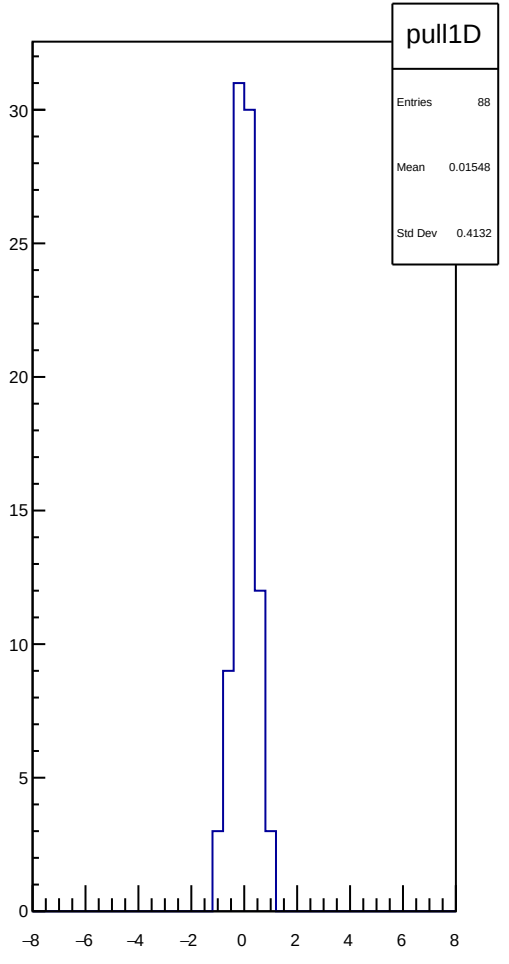

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 19.43 / 87
p0 213.2 ± 1.646
pull
Entries 88
Mean 104.6
Std Dev 0
pull1D
Entries 88
Mean −0.01205
Std Dev 0.4697

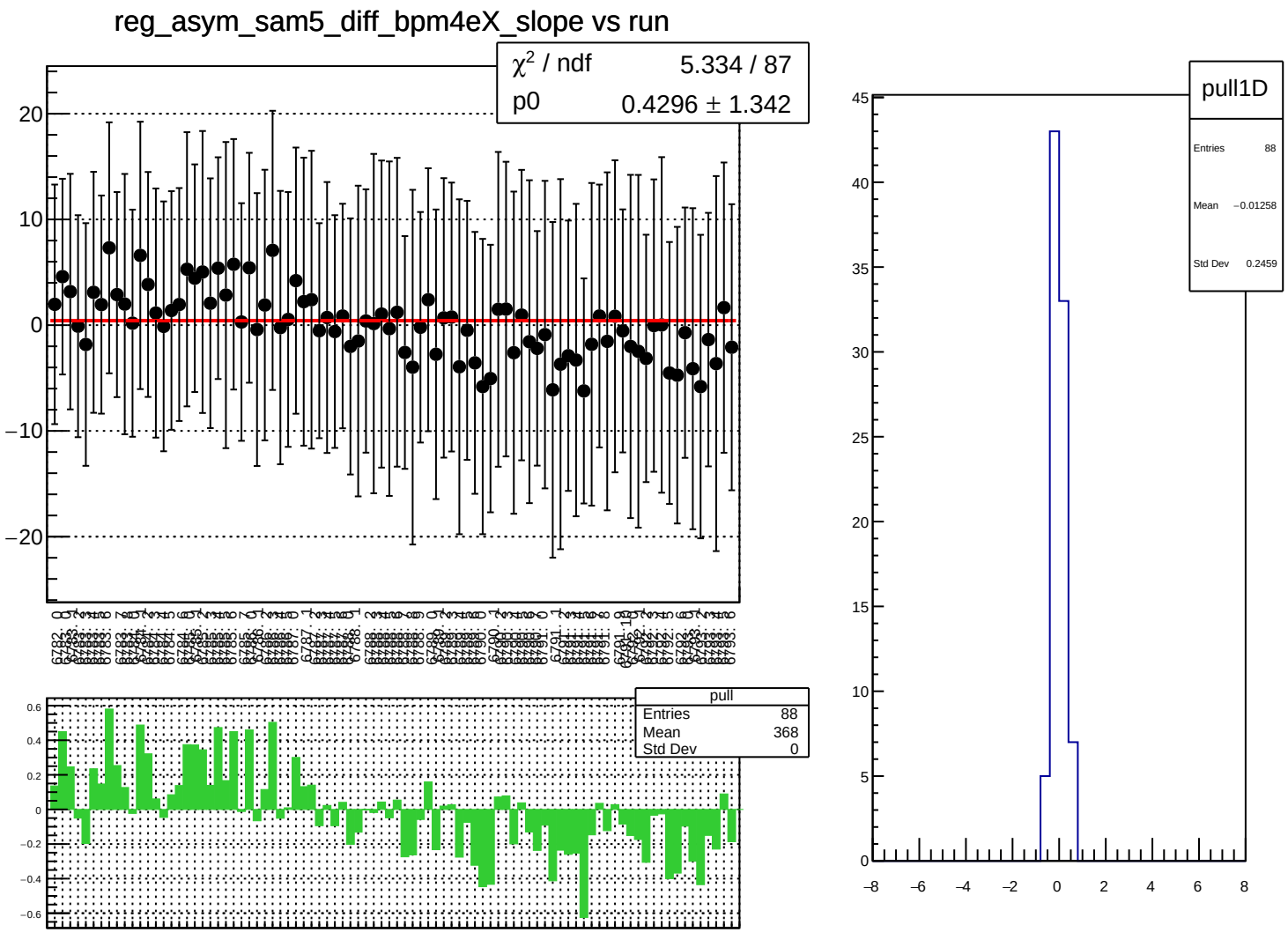

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 5.05 / 87
p0 −0.9576 ± 0.1073
pull
Entries 88
Mean 1246
Std Dev 0
pull1D
Entries 88
Mean 0.001773
Std Dev 0.2396

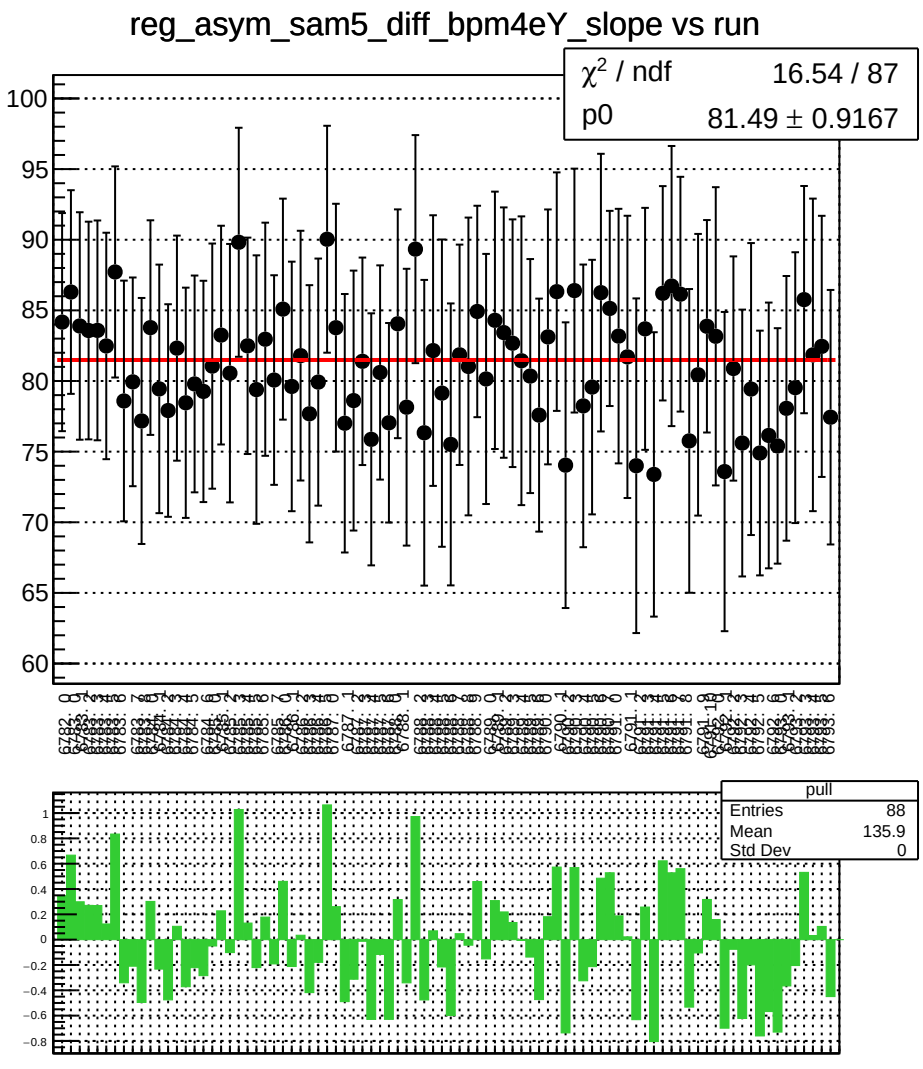

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5.713 / 87
p0 11.17 ± 1.439
pull
Entries 88
Mean 341
Std Dev 0

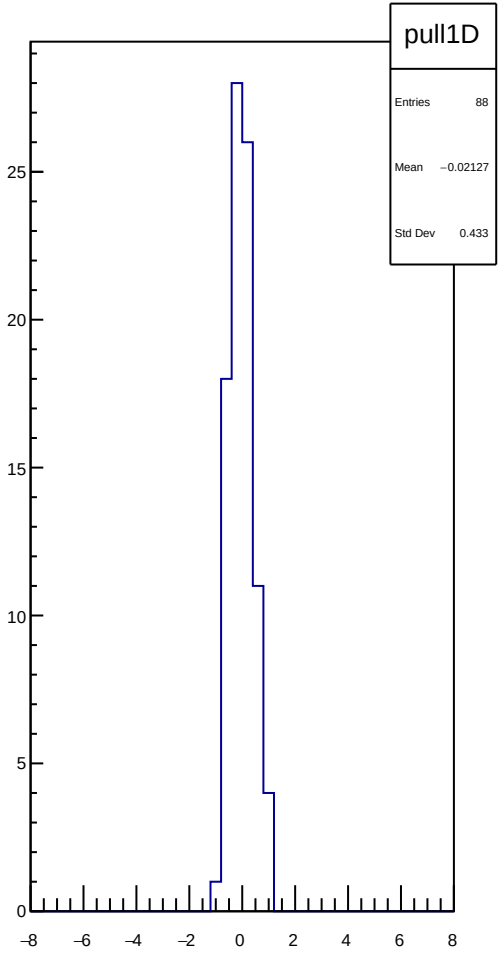

pull1D
Entries 88
Mean 0.0149
Std Dev 0.2544

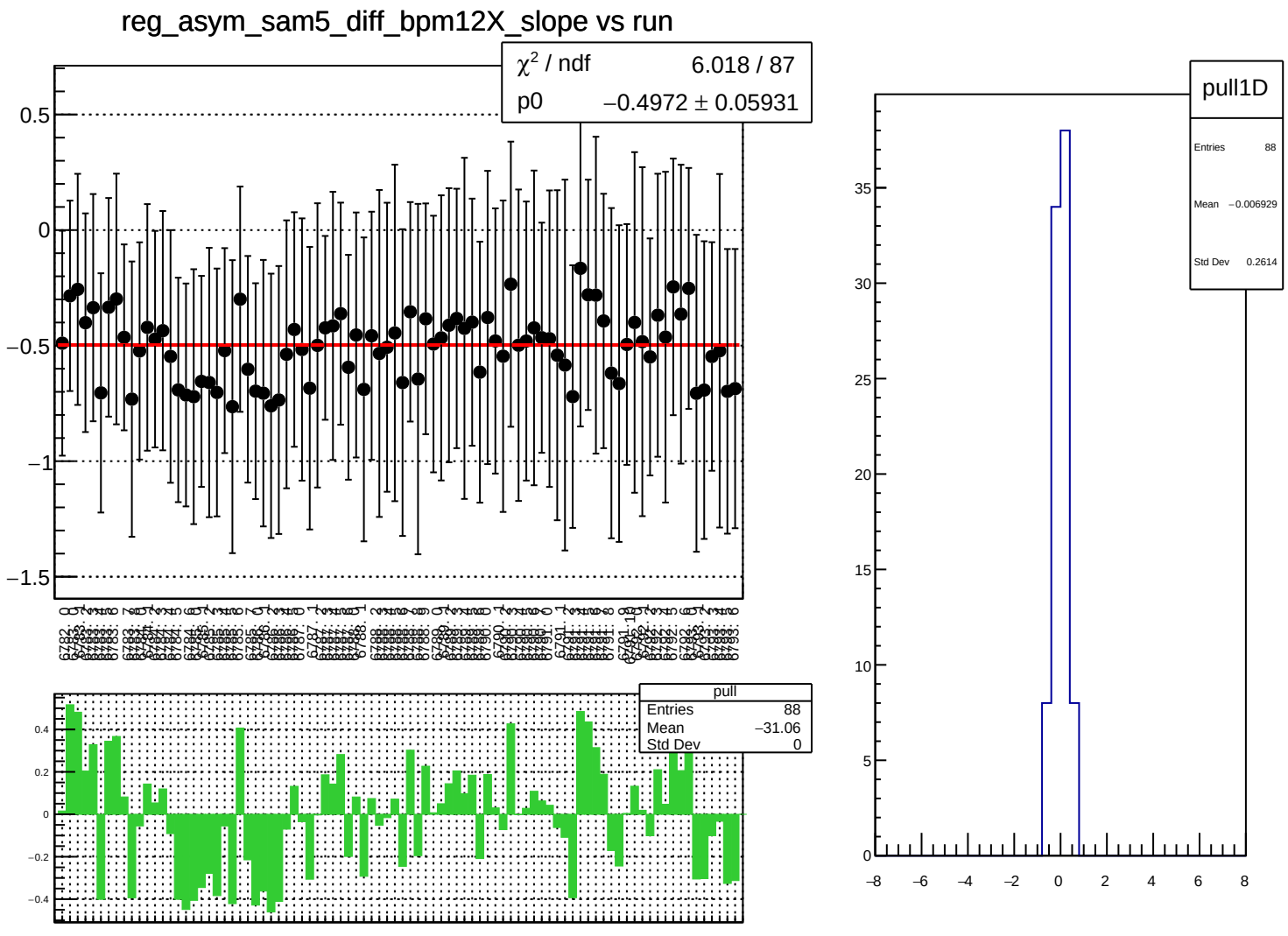

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 15.05 / 87
p0 57.55 ± 0.6758
70
65
60
55
50
45
pull
Entries 88
Mean 389.8
Std Dev 0
1
0.5
0
−0.5
−1

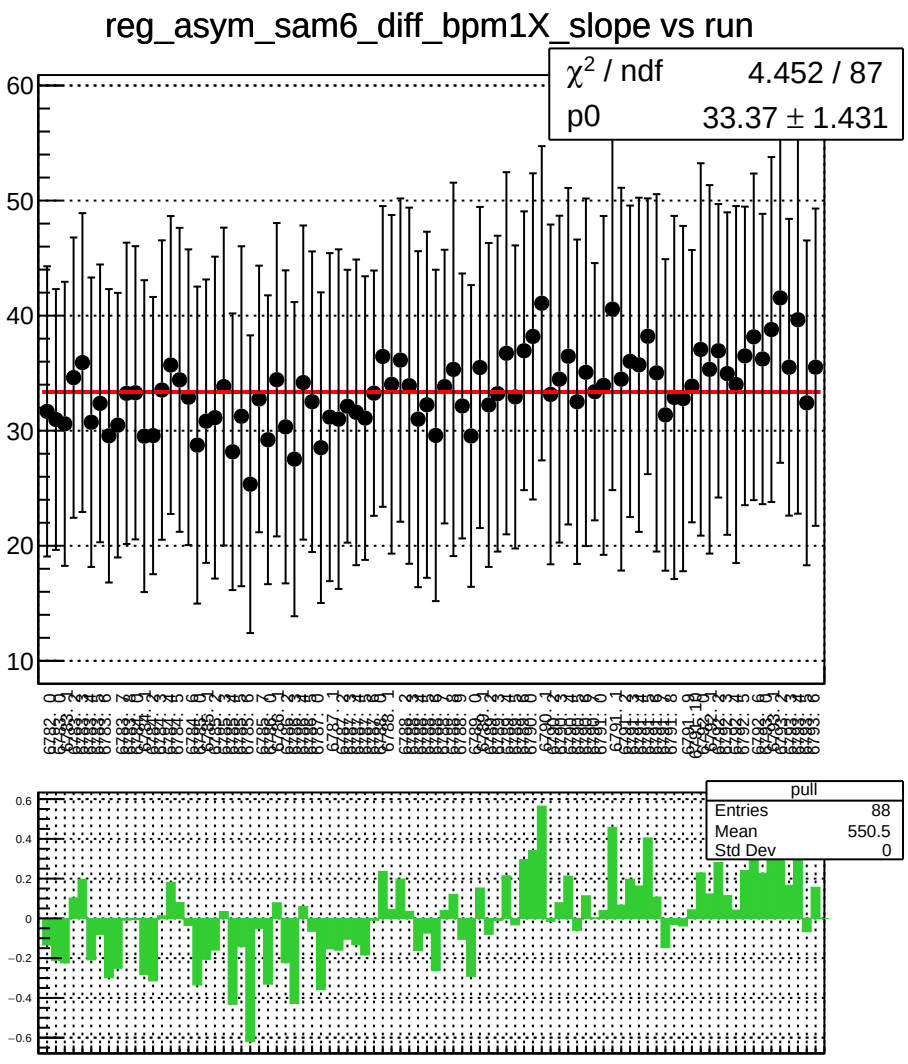

pull1D
Entries 88
Mean 0.01548
Std Dev 0.4132
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

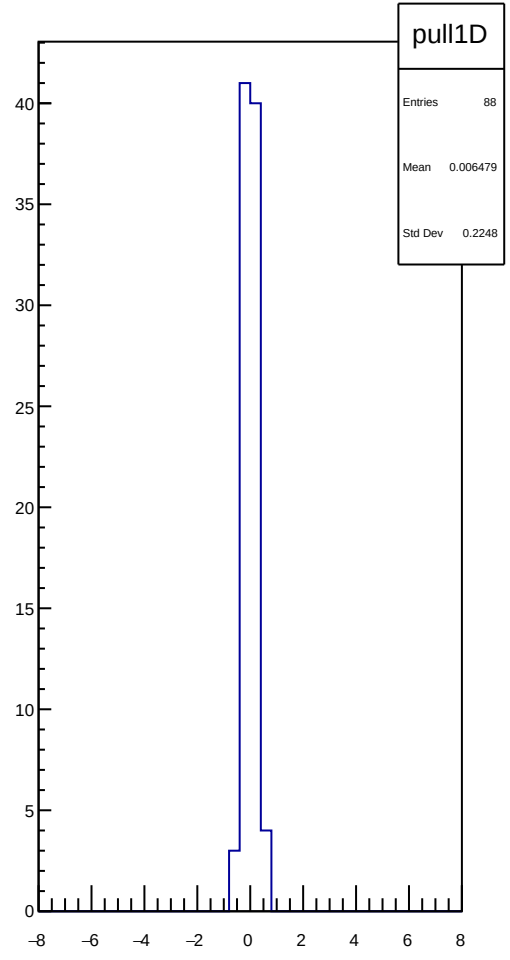

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 5.334 / 87
p0 0.4296 ± 1.342
pull
Entries 88
Mean 368
Std Dev 0
pull1D
Entries 88
Mean −0.01258
Std Dev 0.2459

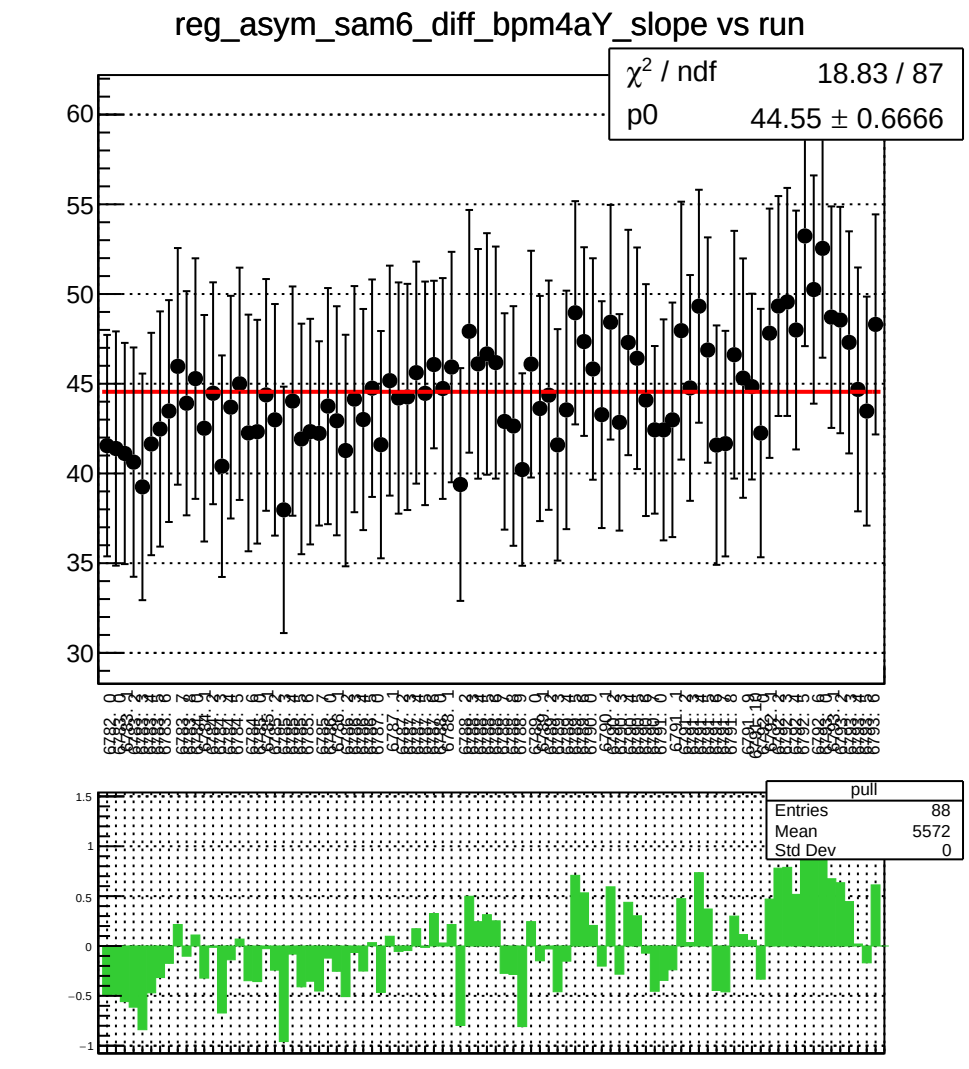

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 16.54 / 87
p0 81.49 ± 0.9167
pull
Entries 88
Mean 135.9
Std Dev 0

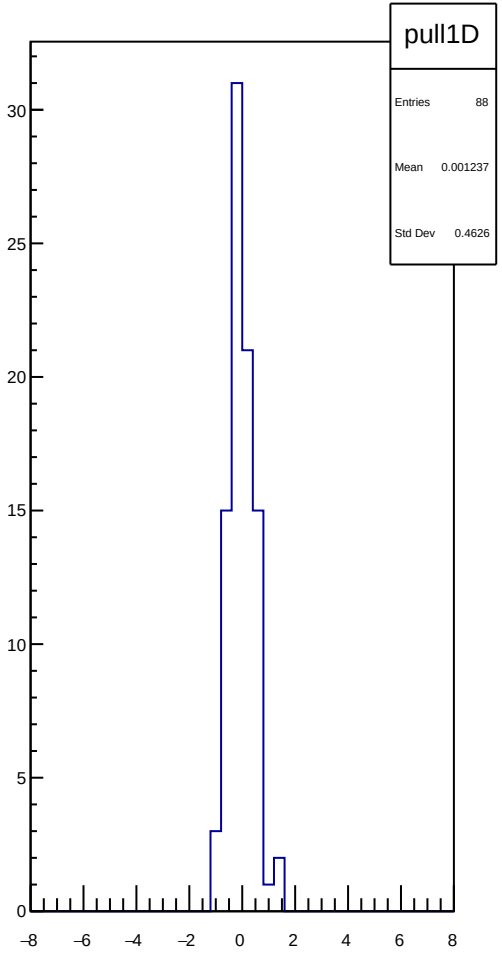

pull1D
Entries 88
Mean −0.02127
Std Dev 0.433

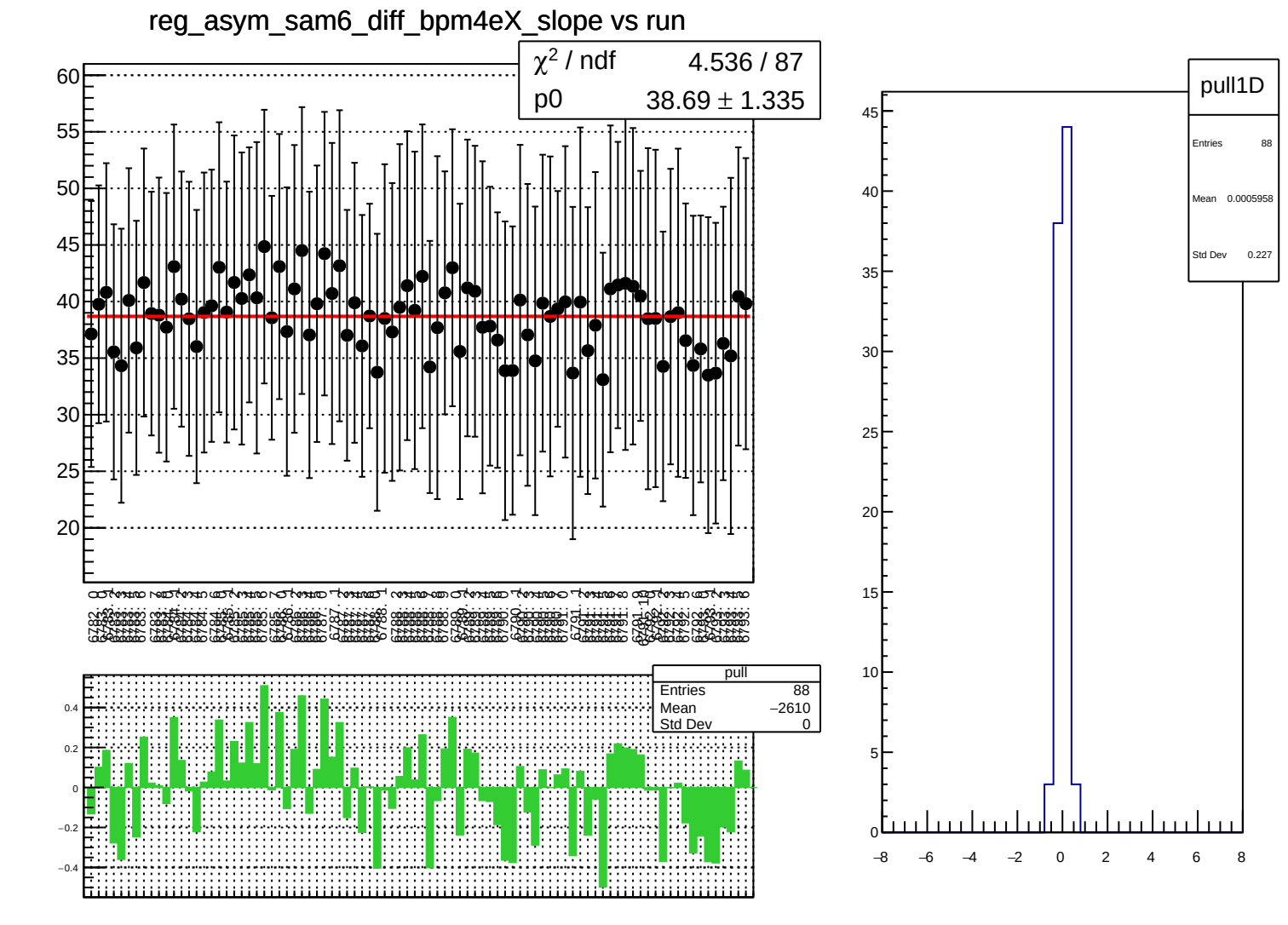

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.018 / 87
p0 −0.4972 ± 0.05931
0.5
0
−0.5
−1
−1.5
pull
Entries 88
Mean −31.06
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.006929
Std Dev 0.2614
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

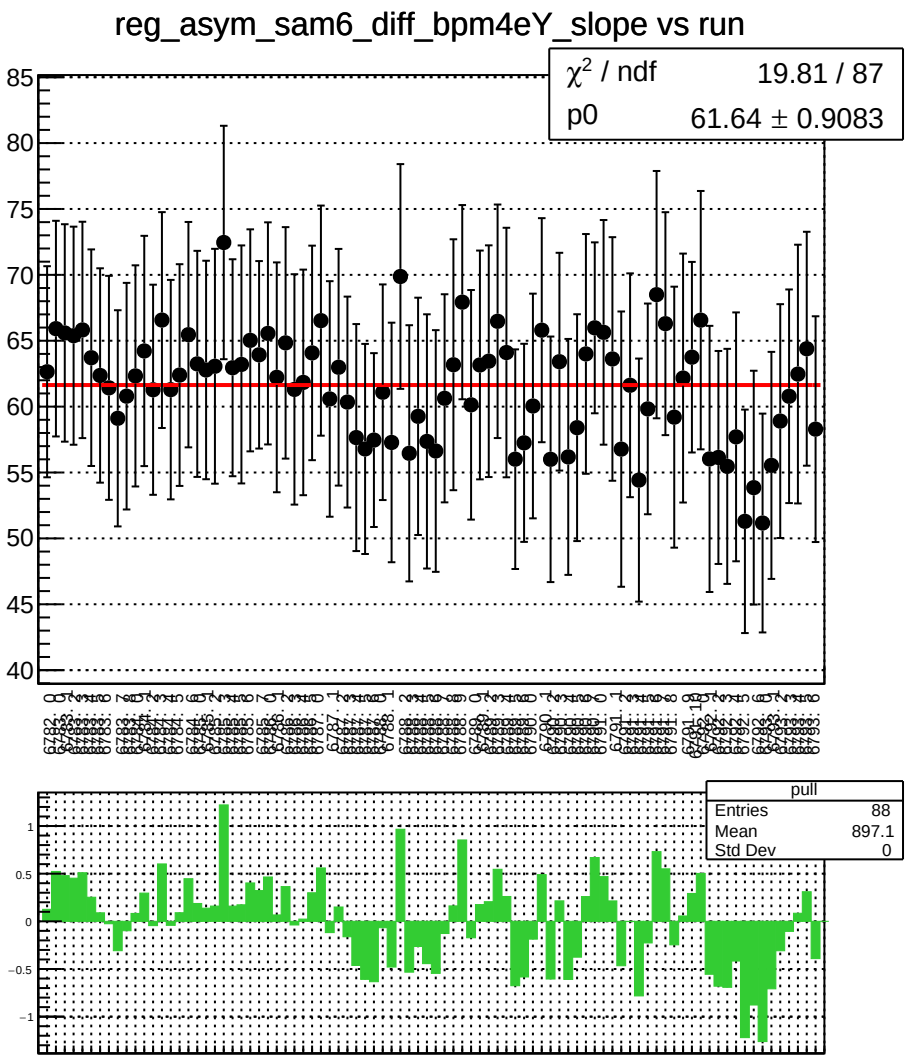

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 4.452 / 87
p0 33.37 ± 1.431
pull
Entries 88
Mean 550.5
Std Dev 0

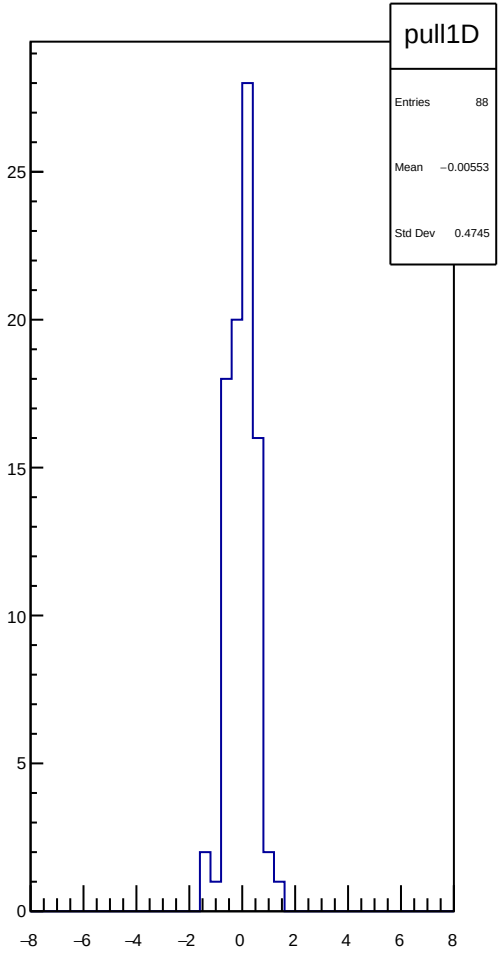

pull1D
Entries 88
Mean 0.006479
Std Dev 0.2248

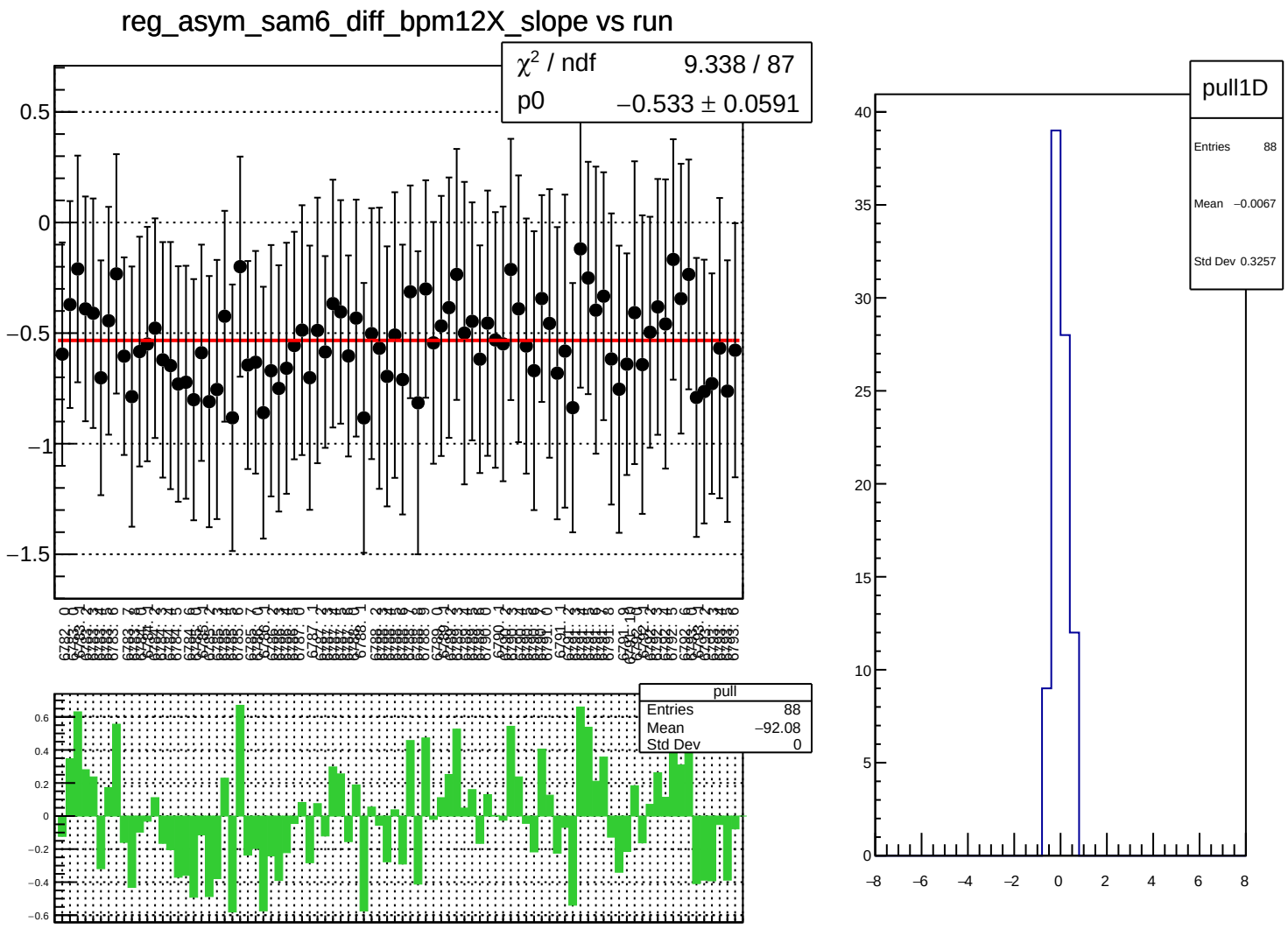

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 18.83 / 87
p0 44.55 ± 0.6666
pull
Entries 88
Mean 5572
Std Dev 0

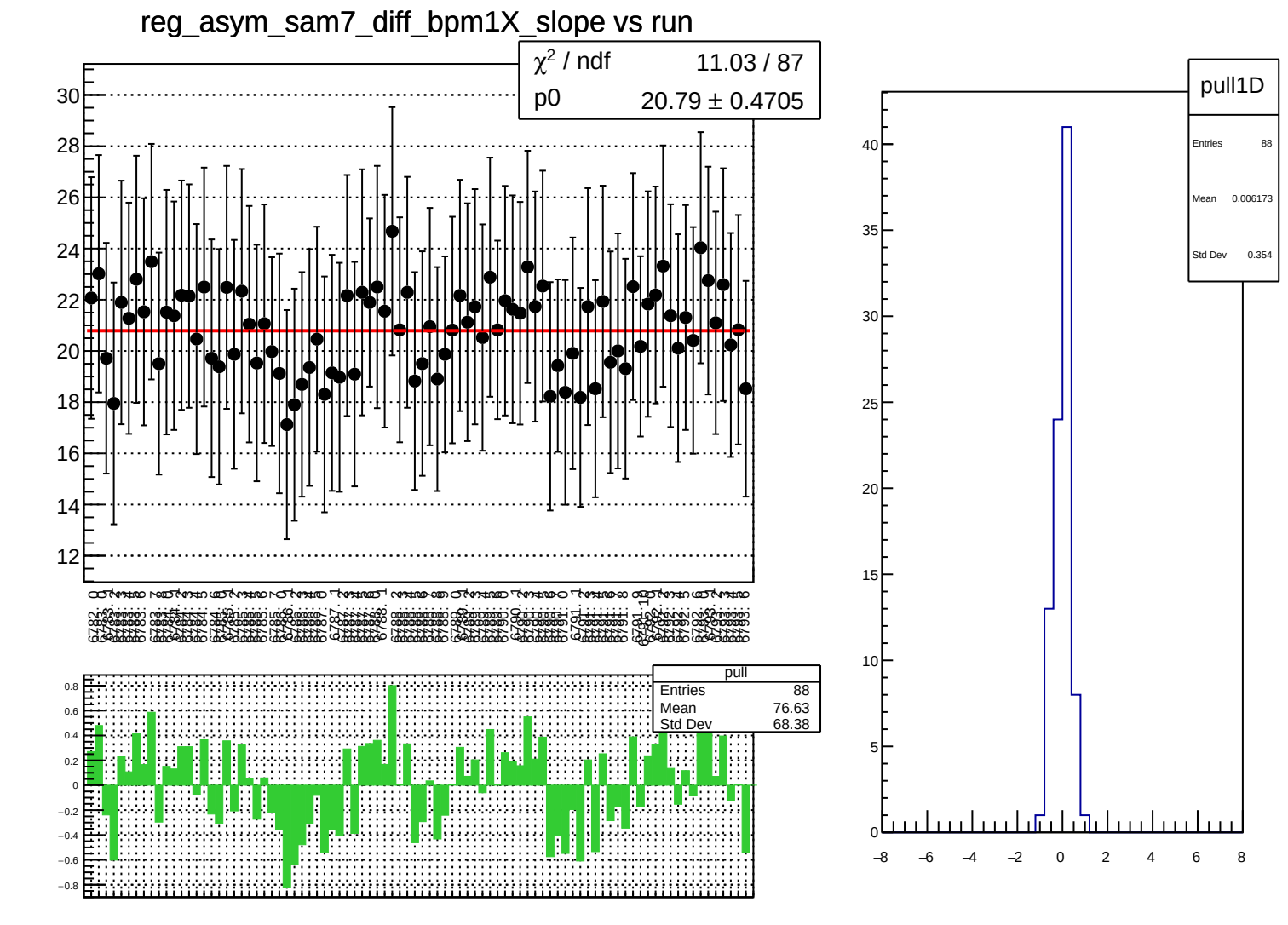

pull1D
Entries 88
Mean 0.001237
Std Dev 0.4626

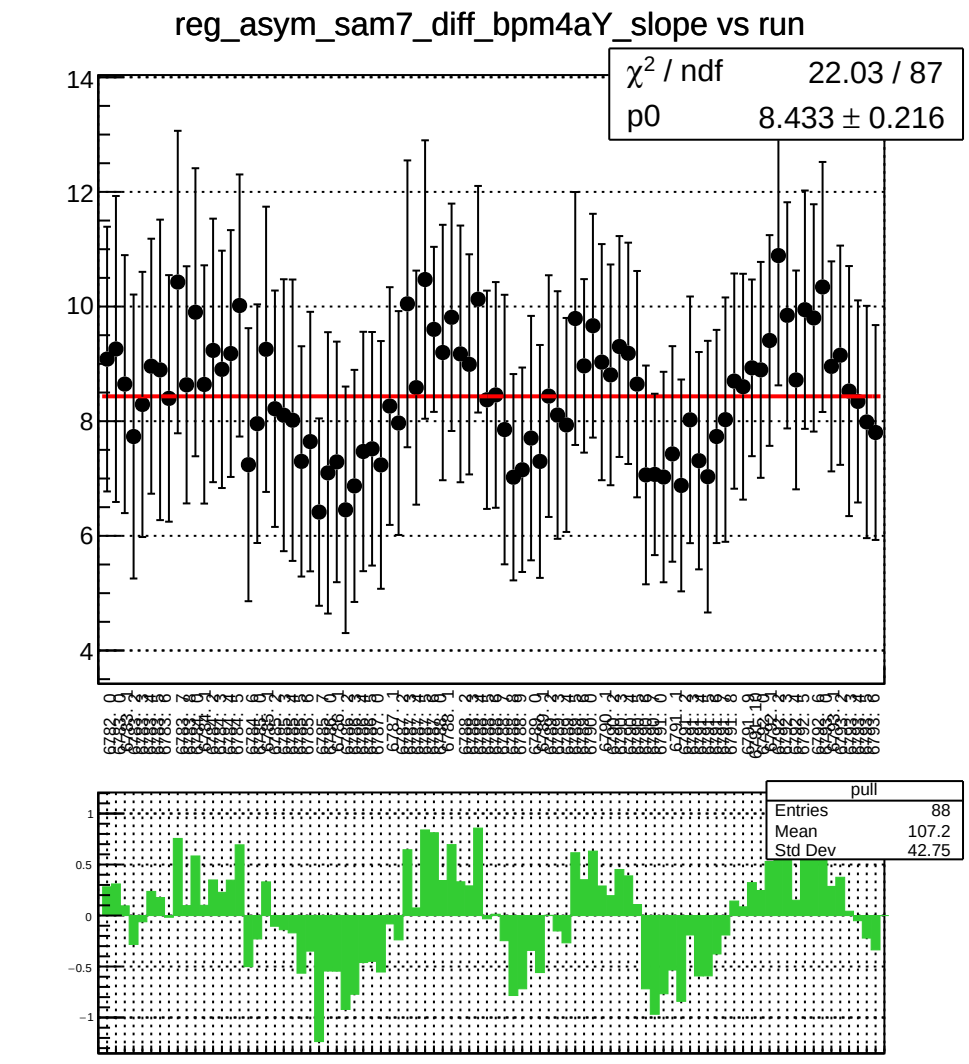

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 4.536 / 87
p0 38.69 ± 1.335
pull
Entries 88
Mean −2610
Std Dev 0
pull1D
Entries 88
Mean 0.0005958
Std Dev 0.227

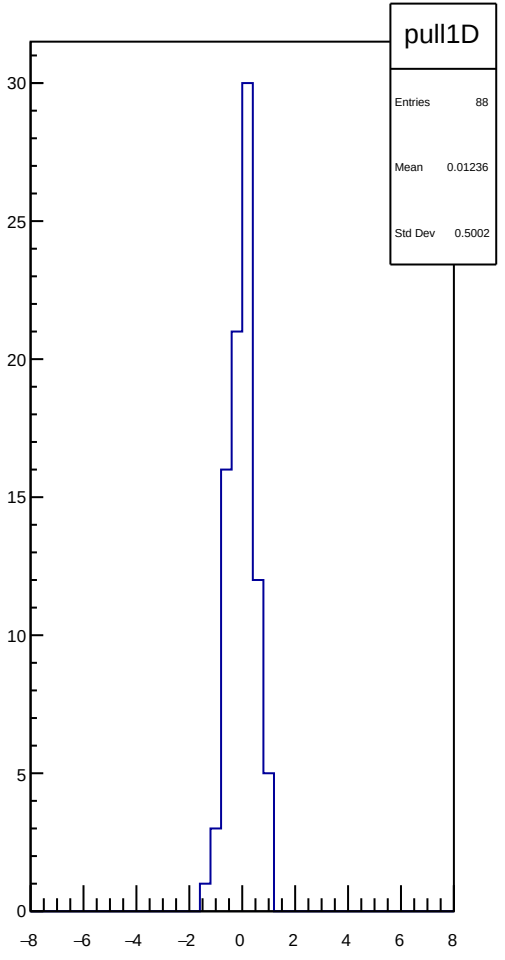

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 19.81 / 87
p0 61.64 ± 0.9083
pull
Entries 88
Mean 897.1
Std Dev 0

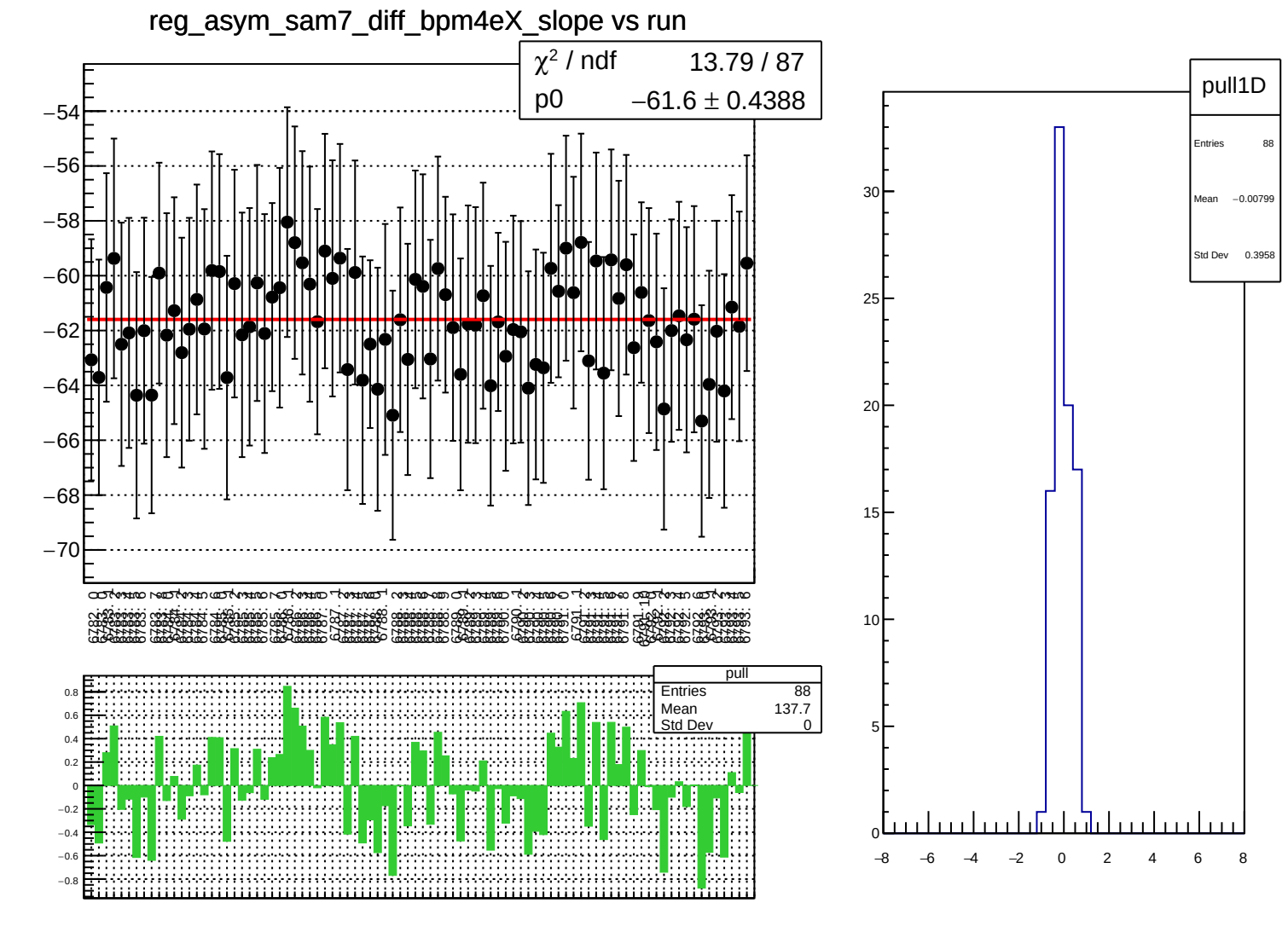

pull1D
Entries 88
Mean −0.00553
Std Dev 0.4745

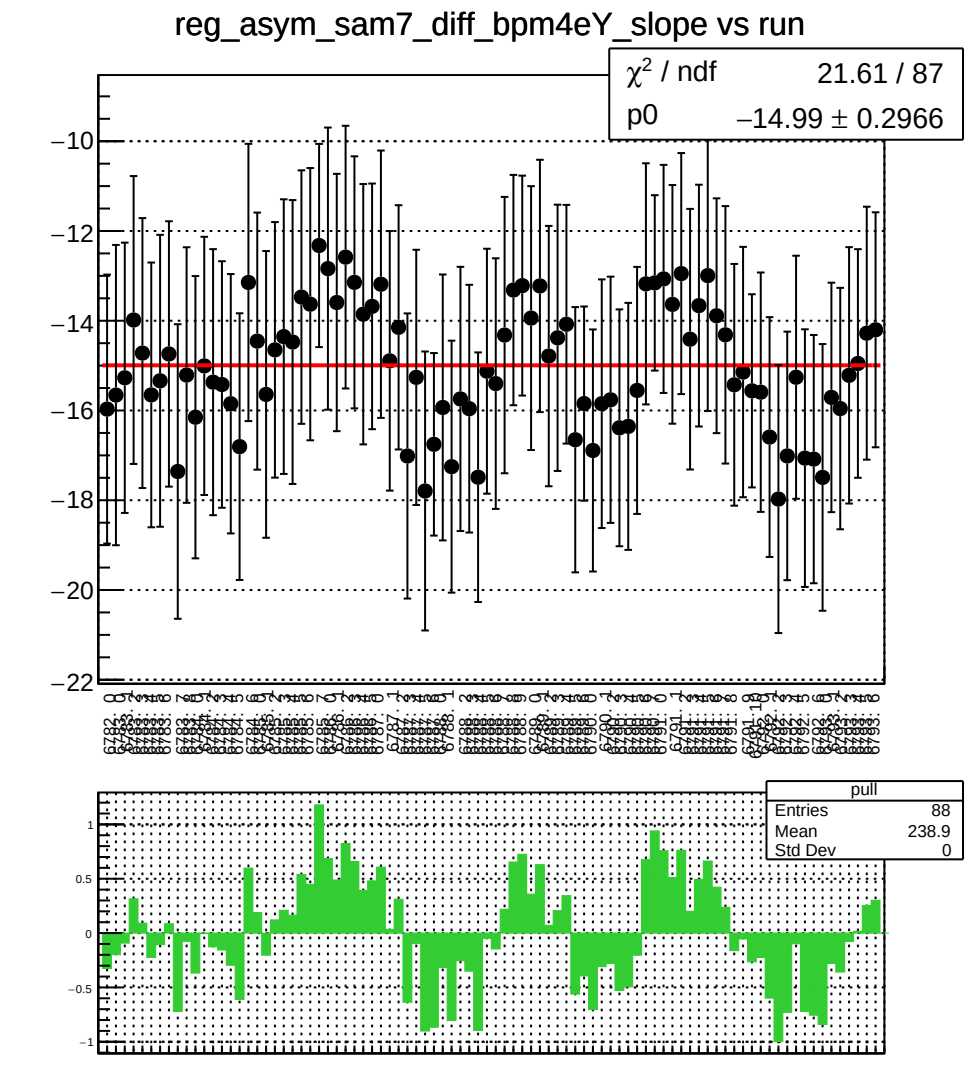

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.338 / 87
p0 −0.533 ± 0.0591
0.5
0
−0.5
−1
−1.5
pull
Entries 88
Mean −92.08
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.0067
Std Dev 0.3257
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

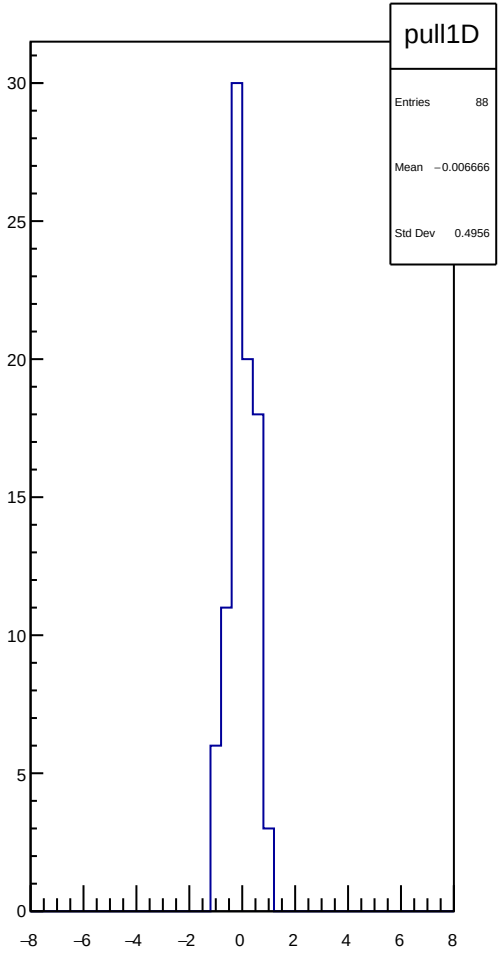

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 11.03 / 87
p0 20.79 ± 0.4705
pull
Entries 88
Mean 76.63
Std Dev 68.38
pull1D
Entries 88
Mean 0.006173
Std Dev 0.354

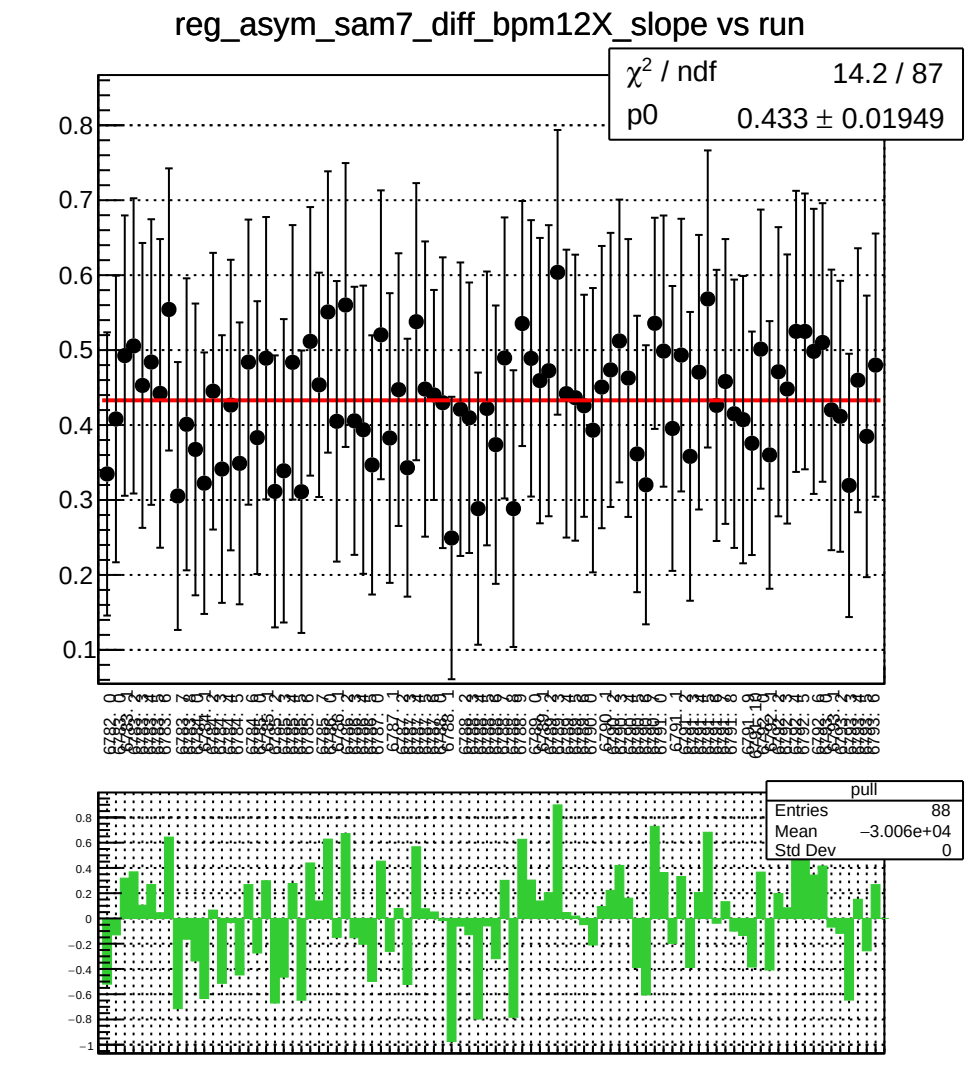

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 22.03 / 87
p0 8.433 ± 0.216
pull
Entries 88
Mean 107.2
Std Dev 42.75

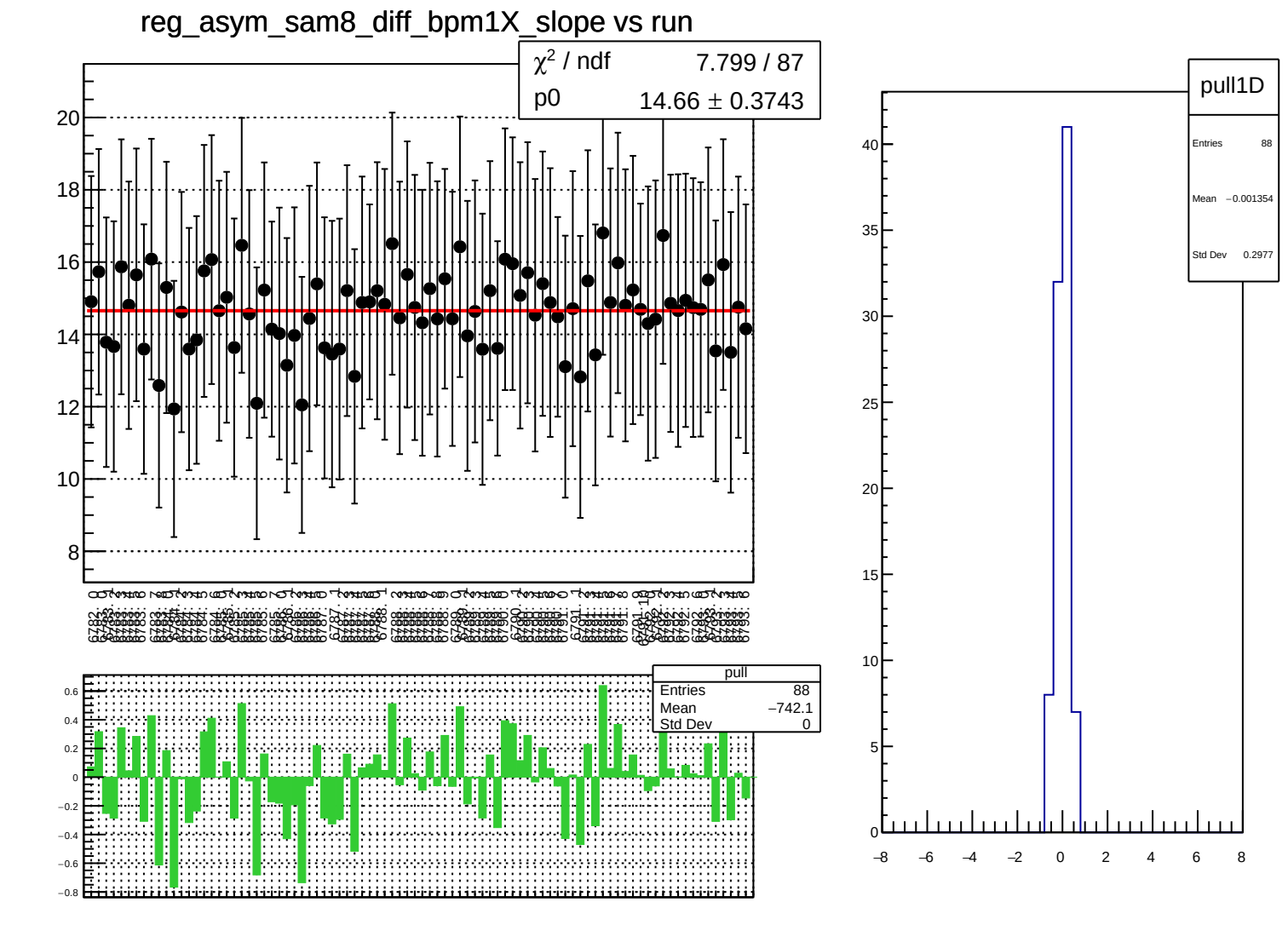

pull1D
Entries 88
Mean 0.01236
Std Dev 0.5002

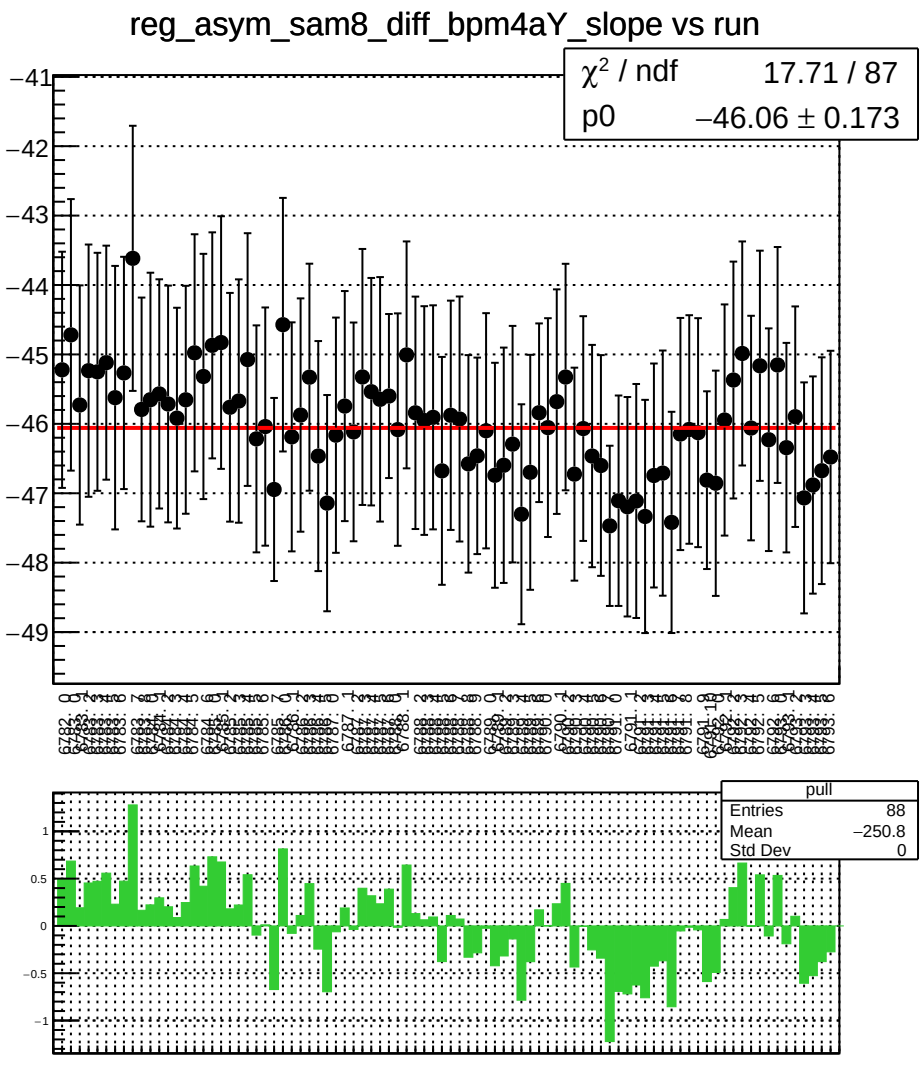

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 13.79 / 87
p0 −61.6 ± 0.4388
pull
Entries 88
Mean 137.7
Std Dev 0
pull1D
Entries 88
Mean −0.00799
Std Dev 0.3958

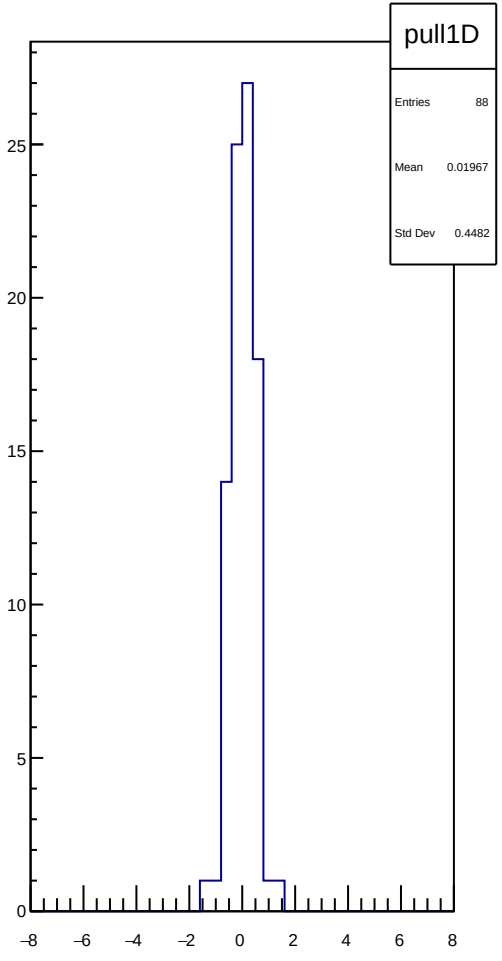

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 21.61 / 87
p0 −14.99 ± 0.2966
pull
Entries 88
Mean 238.9
Std Dev 0

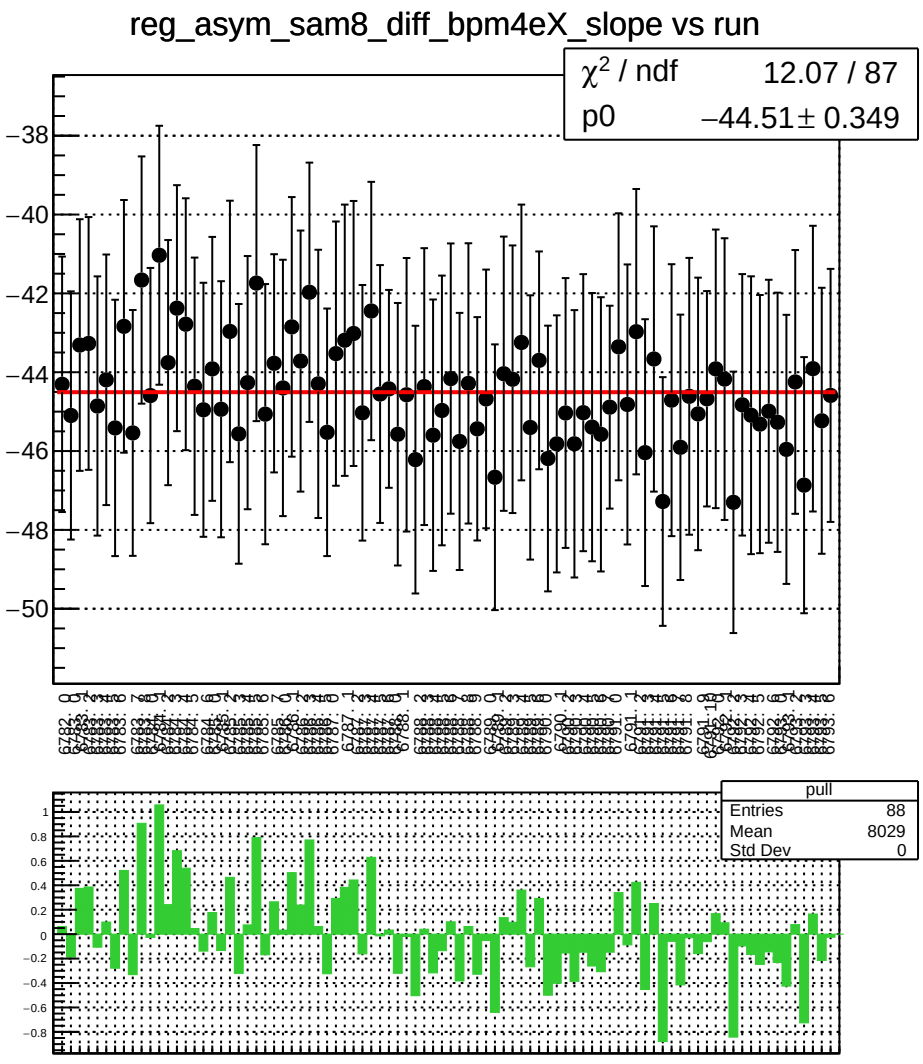

pull1D
Entries 88
Mean −0.006666
Std Dev 0.4956

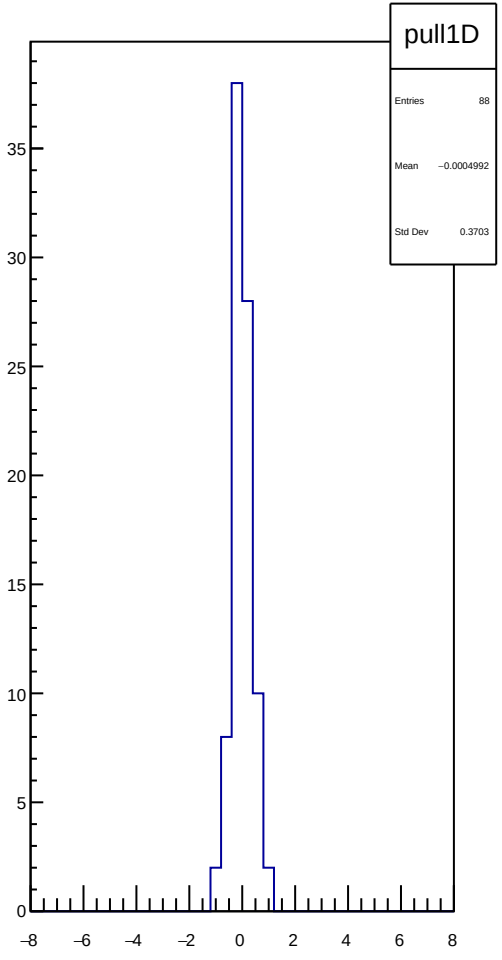

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 14.2 / 87
p0 0.433 ± 0.01949
pull
Entries 88
Mean −3.006e+04
Std Dev 0
pull1D
Entries 88
Mean −4.877e−05
Std Dev 0.4017

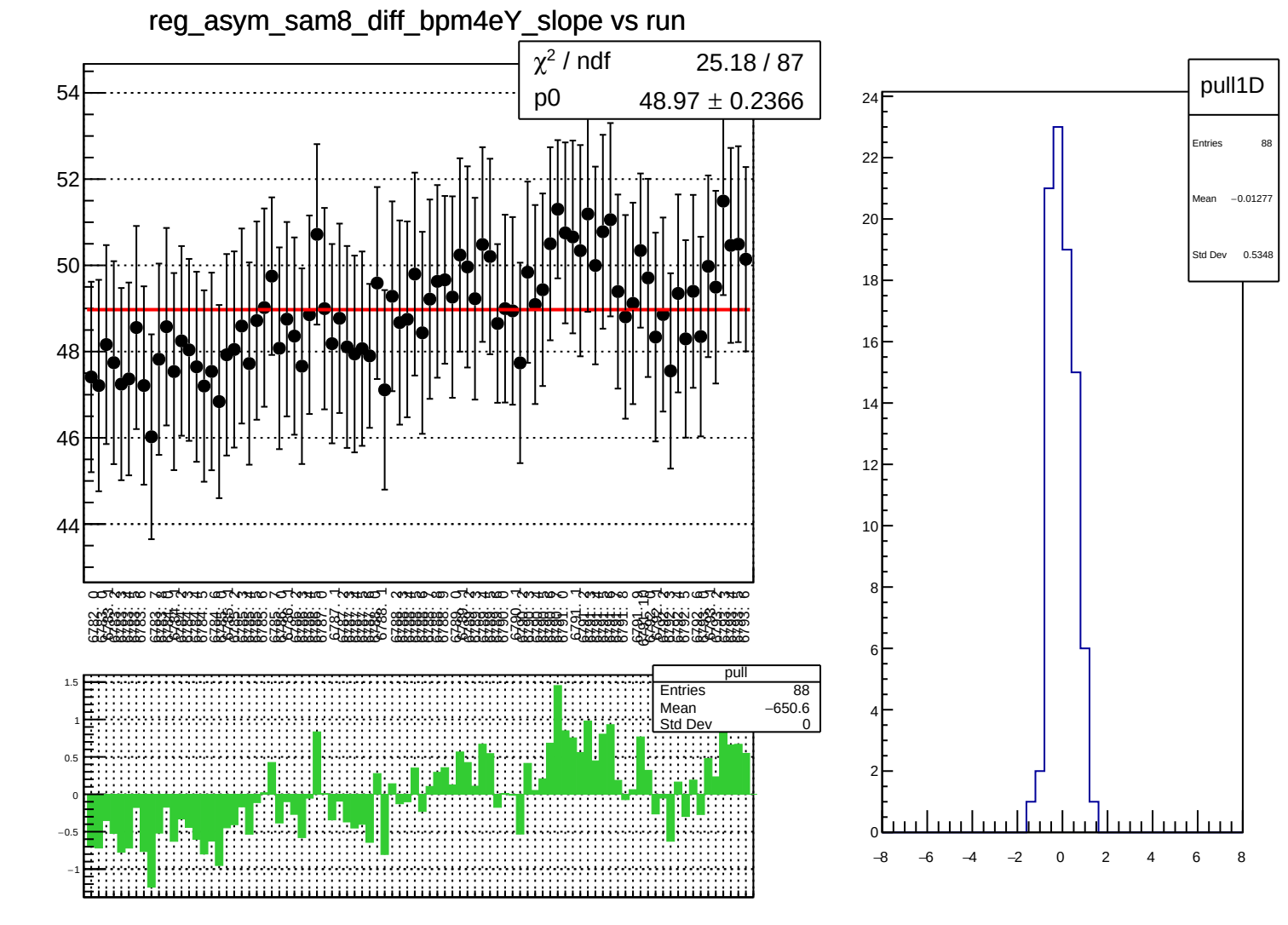

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 7.799 / 87
p0 14.66 ± 0.3743
pull
Entries 88
Mean −742.1
Std Dev 0
pull1D
Entries 88
Mean −0.001354
Std Dev 0.2977

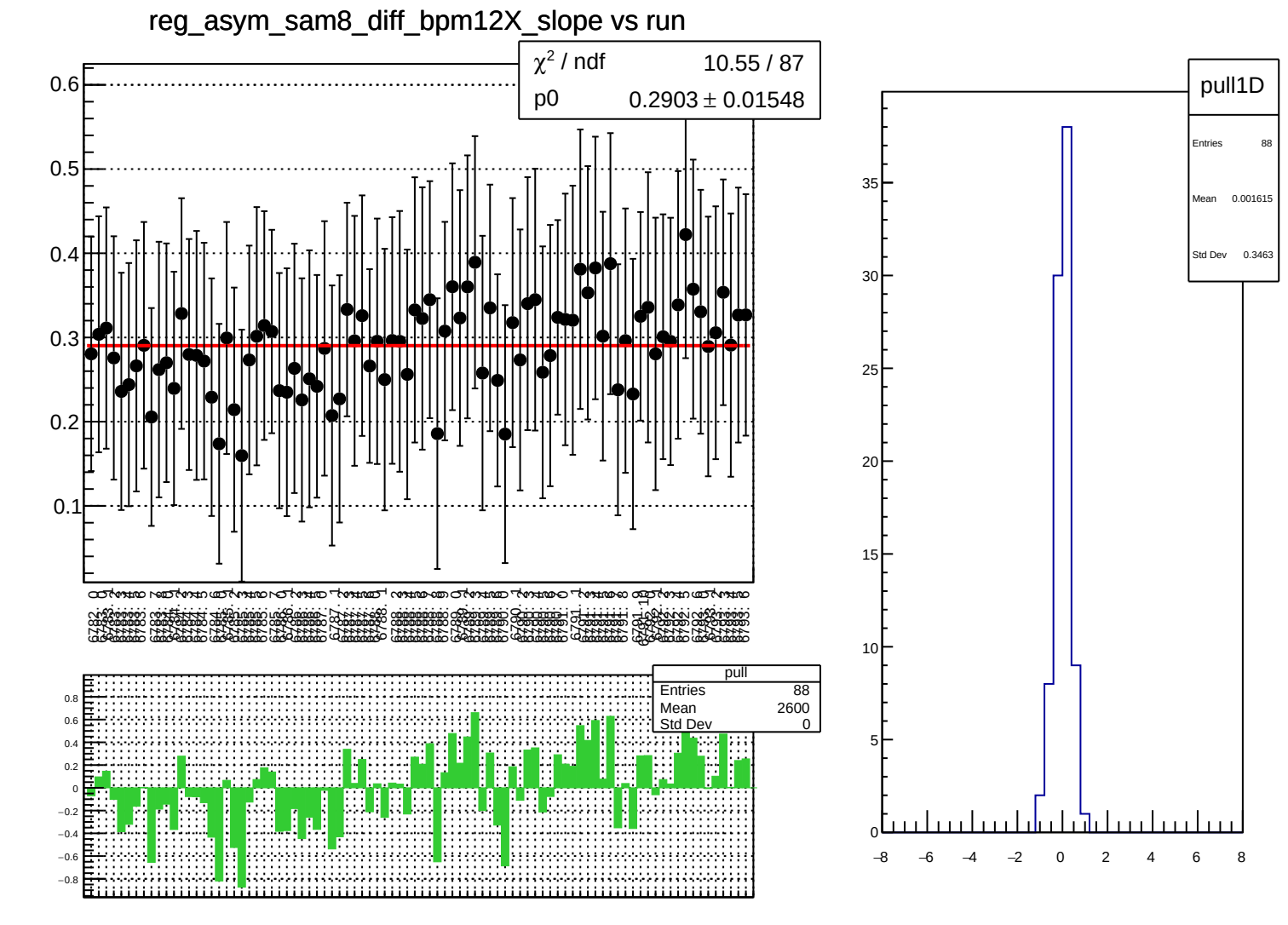

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 17.71 / 87
p0 −46.06 ± 0.173
pull
Entries 88
Mean −250.8
Std Dev 0

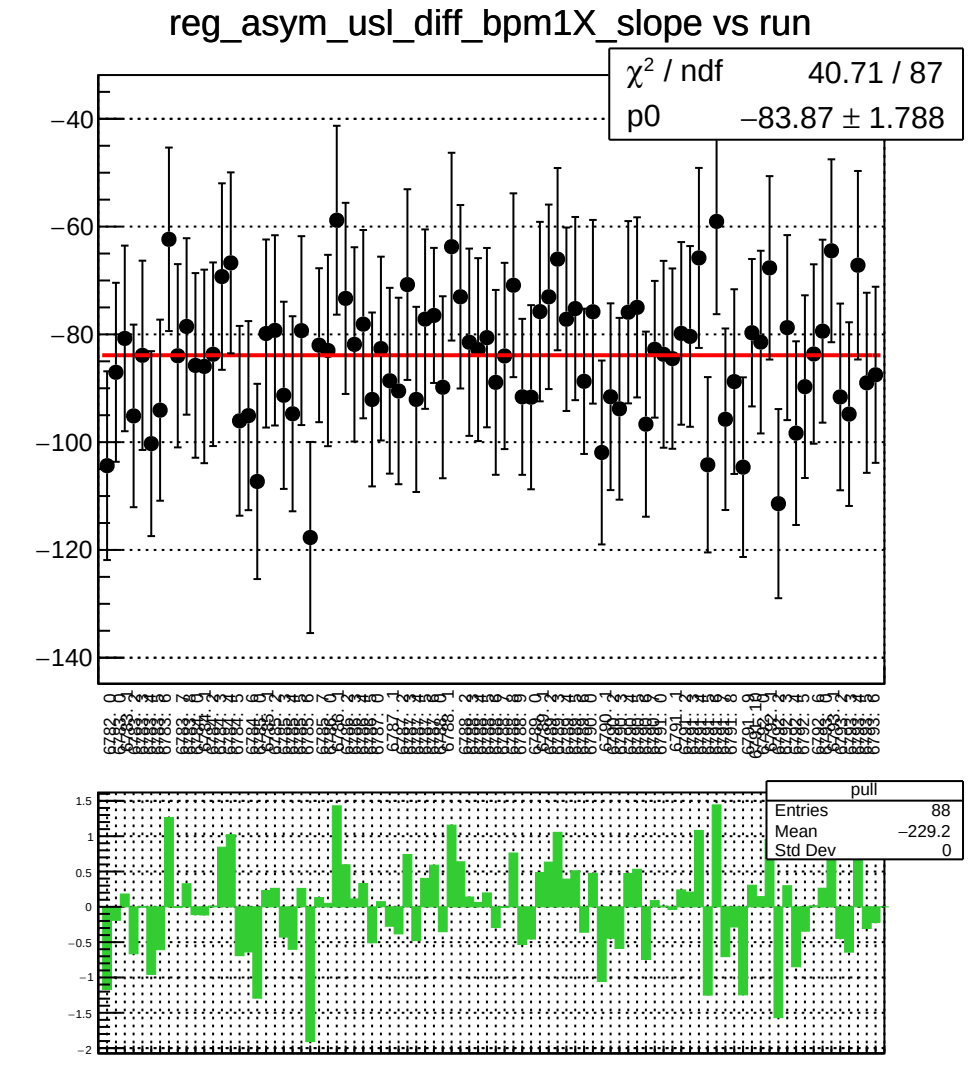

pull1D
Entries 88
Mean 0.01967
Std Dev 0.4482

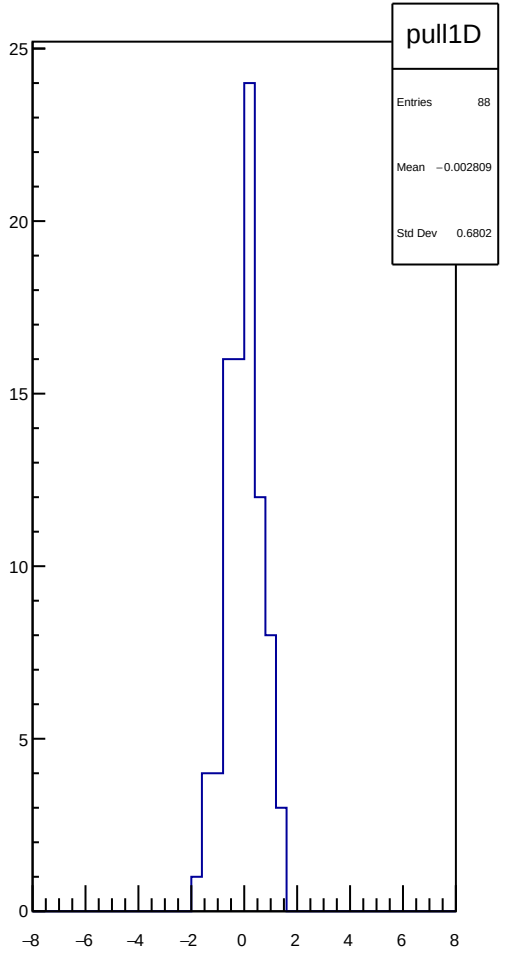

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 12.07 / 87
p0 −44.51 ± 0.349
pull
Entries 88
Mean 8029
Std Dev 0

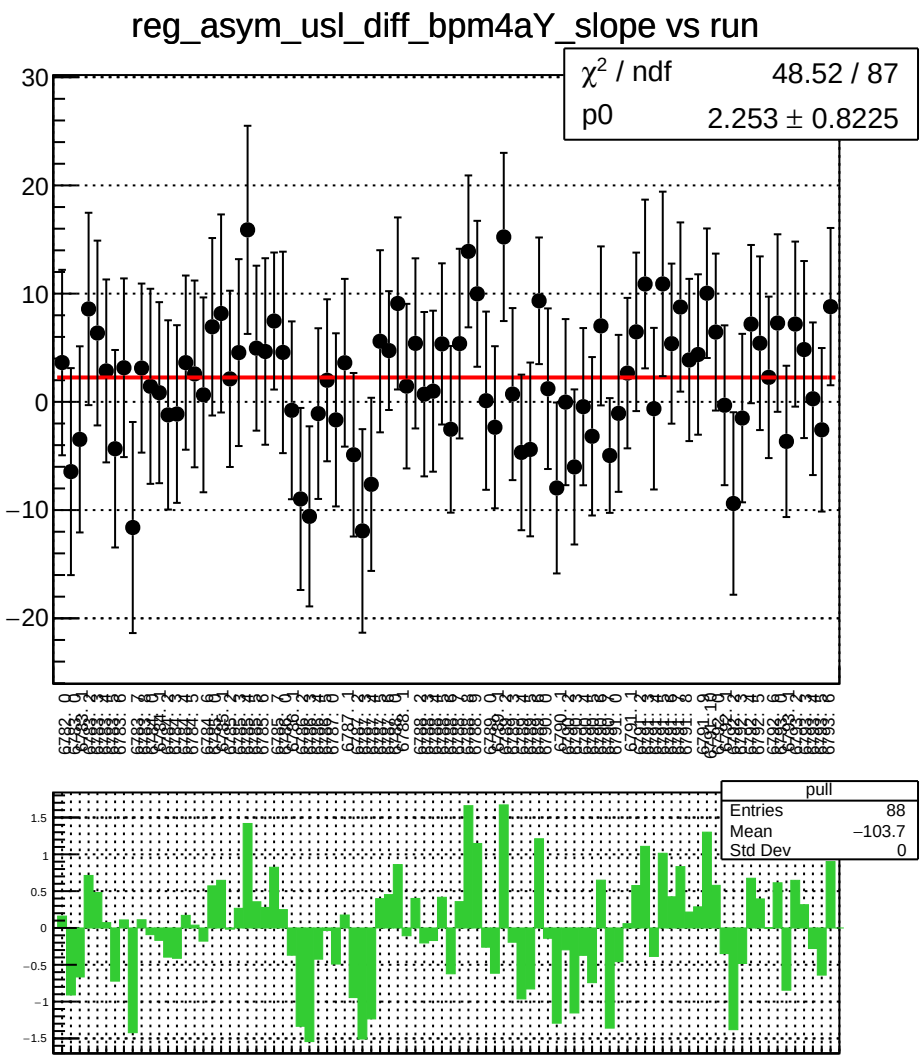

pull1D
Entries 88
Mean −0.0004992
Std Dev 0.3703

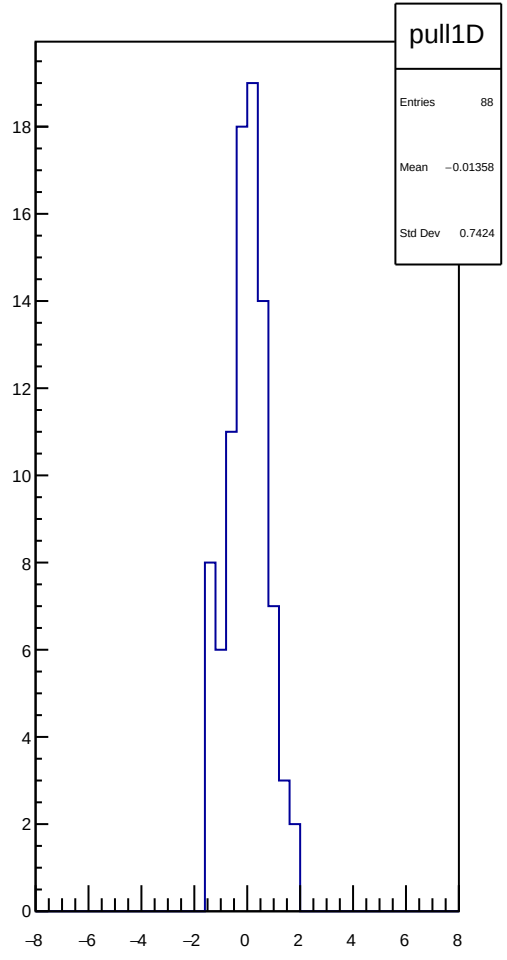

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 25.18 / 87
p0 48.97 ± 0.2366
pull
Entries 88
Mean −650.6
Std Dev 0
pull1D
Entries 88
Mean −0.01277
Std Dev 0.5348

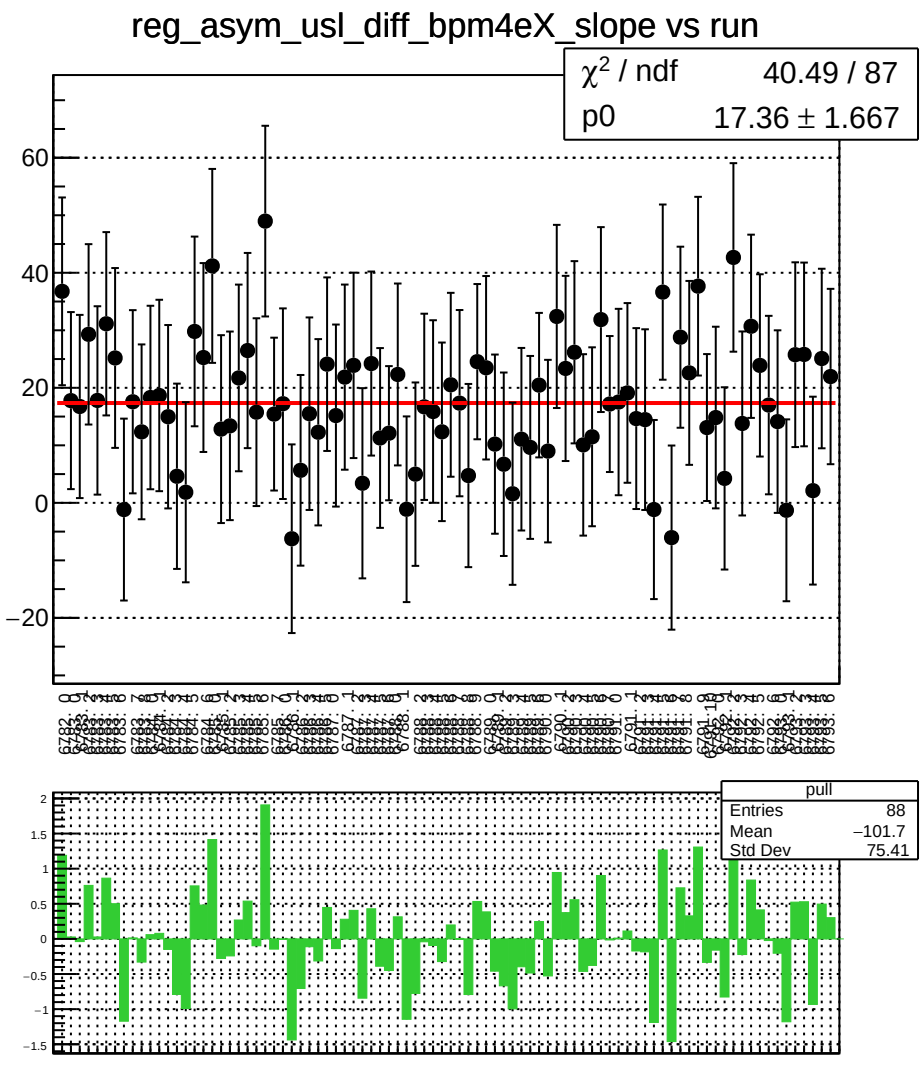

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 10.55 / 87
p0 0.2903 ± 0.01548
pull
Entries 88
Mean 2600
Std Dev 0
pull1D
Entries 88
Mean 0.001615
Std Dev 0.3463

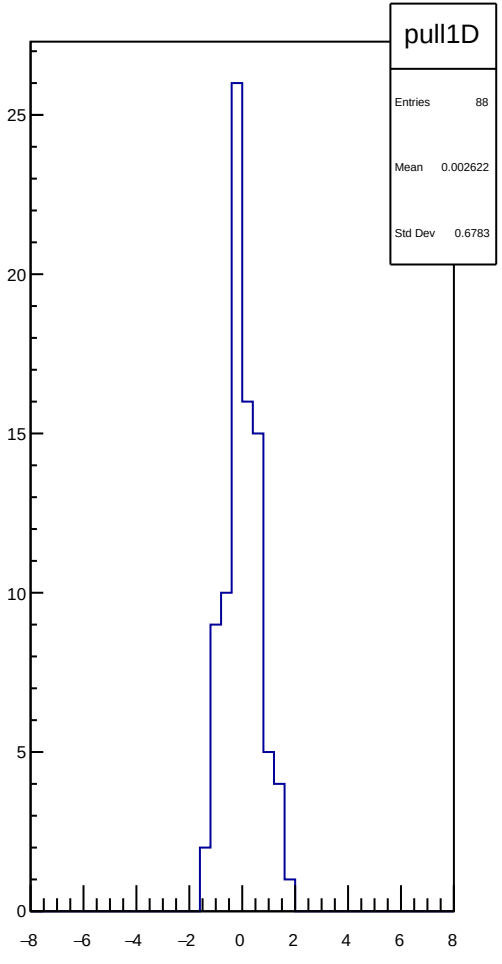

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 40.71 / 87
p0 −83.87 ± 1.788
pull
Entries 88
Mean −229.2
Std Dev 0

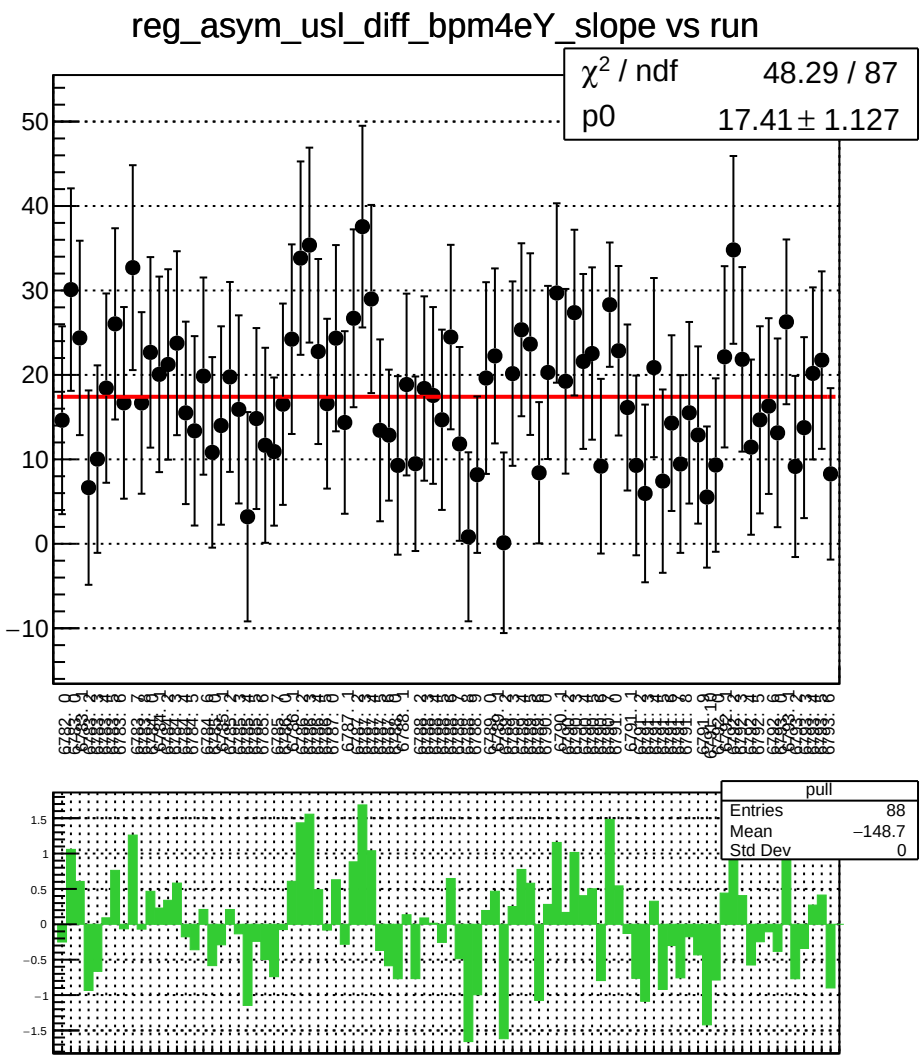

pull1D
Entries 88
Mean −0.002809
Std Dev 0.6802

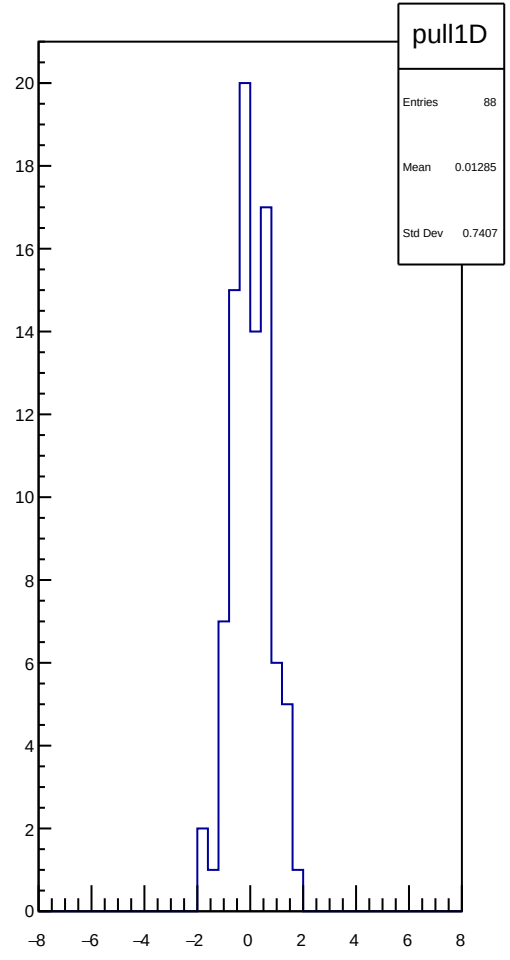

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 48.52 / 87
p0 2.253 ± 0.8225
pull
Entries 88
Mean −103.7
Std Dev 0

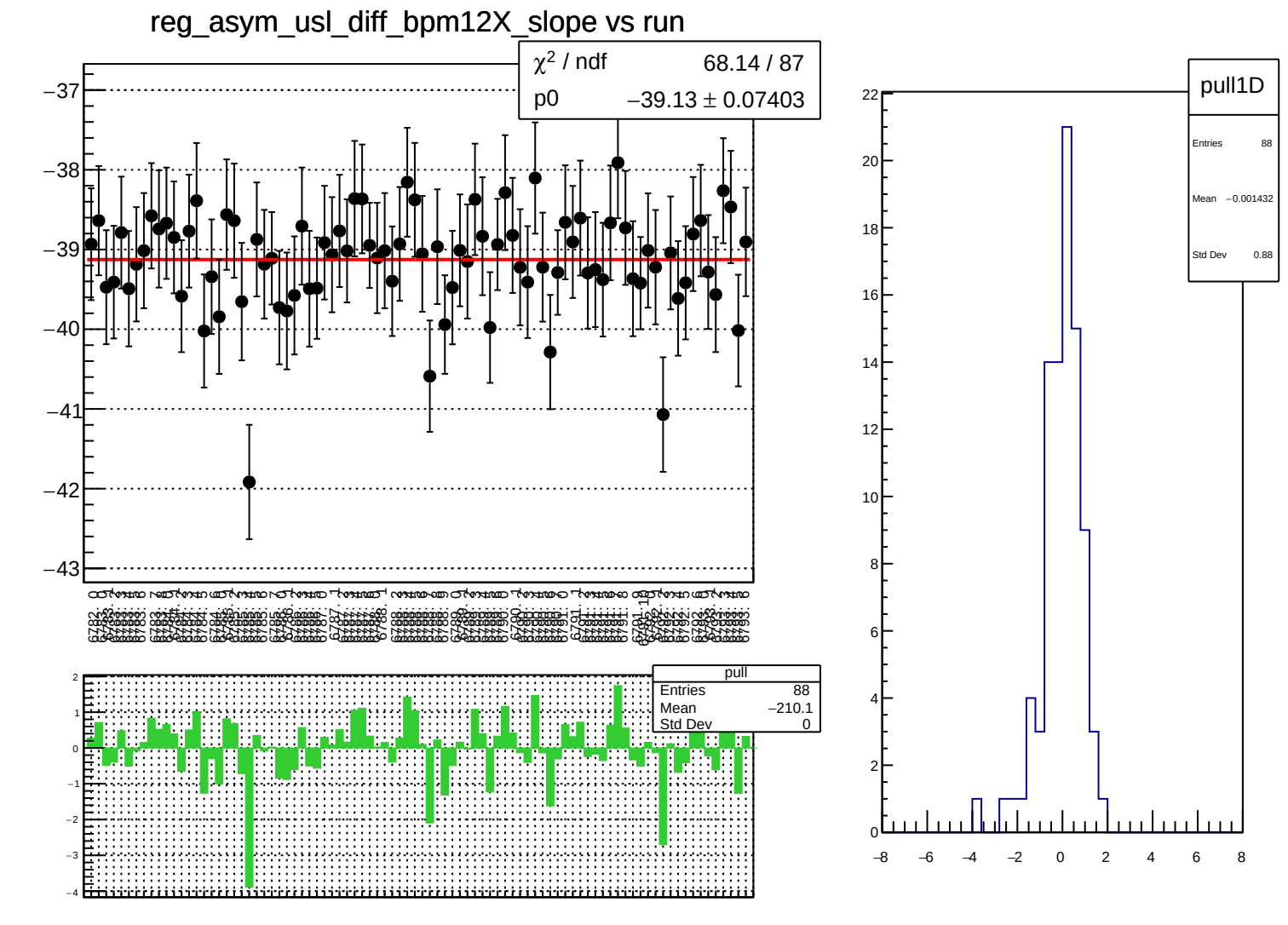

pull1D
Entries 88
Mean −0.01358
Std Dev 0.7424

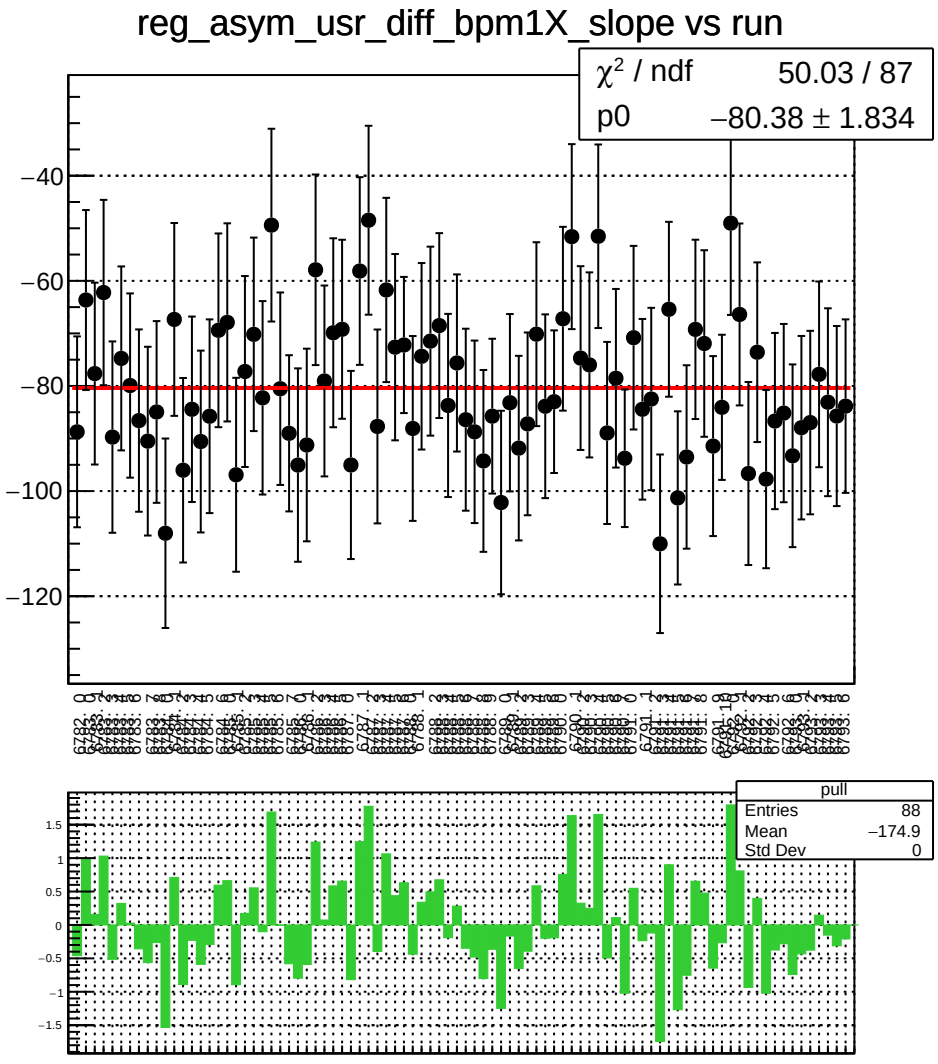

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 40.49 / 87
p0 17.36 ± 1.667
pull
Entries 88
Mean −101.7
Std Dev 75.41

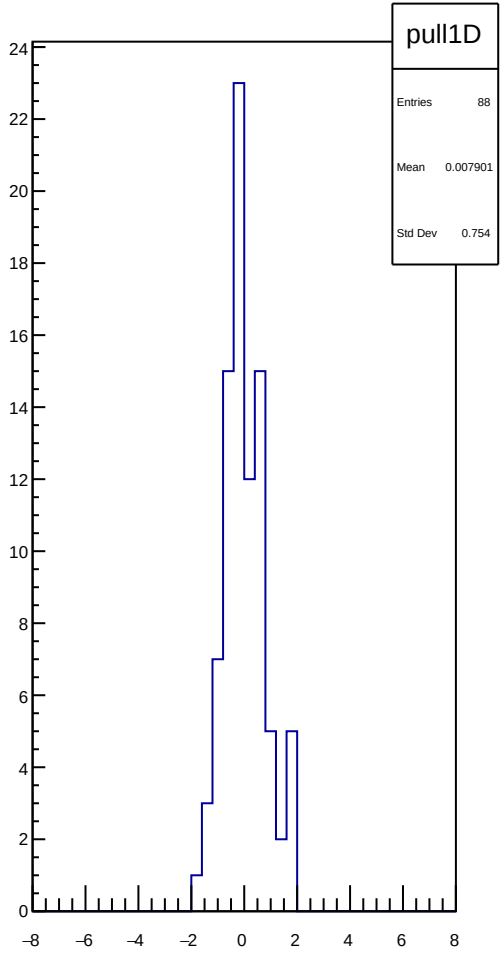

pull1D
Entries 88
Mean 0.002622
Std Dev 0.6783

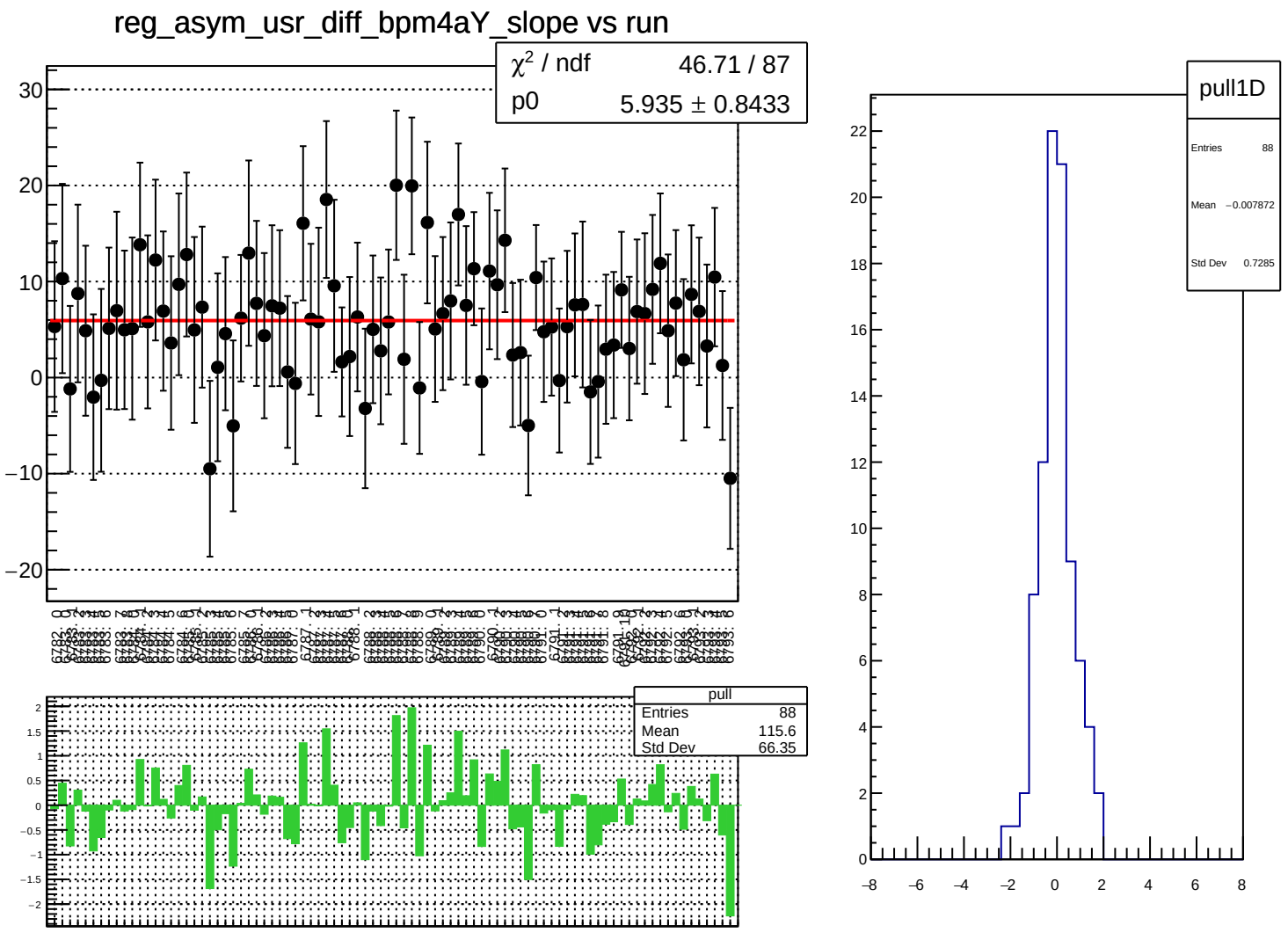

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 48.29 / 87
p0 17.41 ± 1.127
pull
Entries 88
Mean −148.7
Std Dev 0

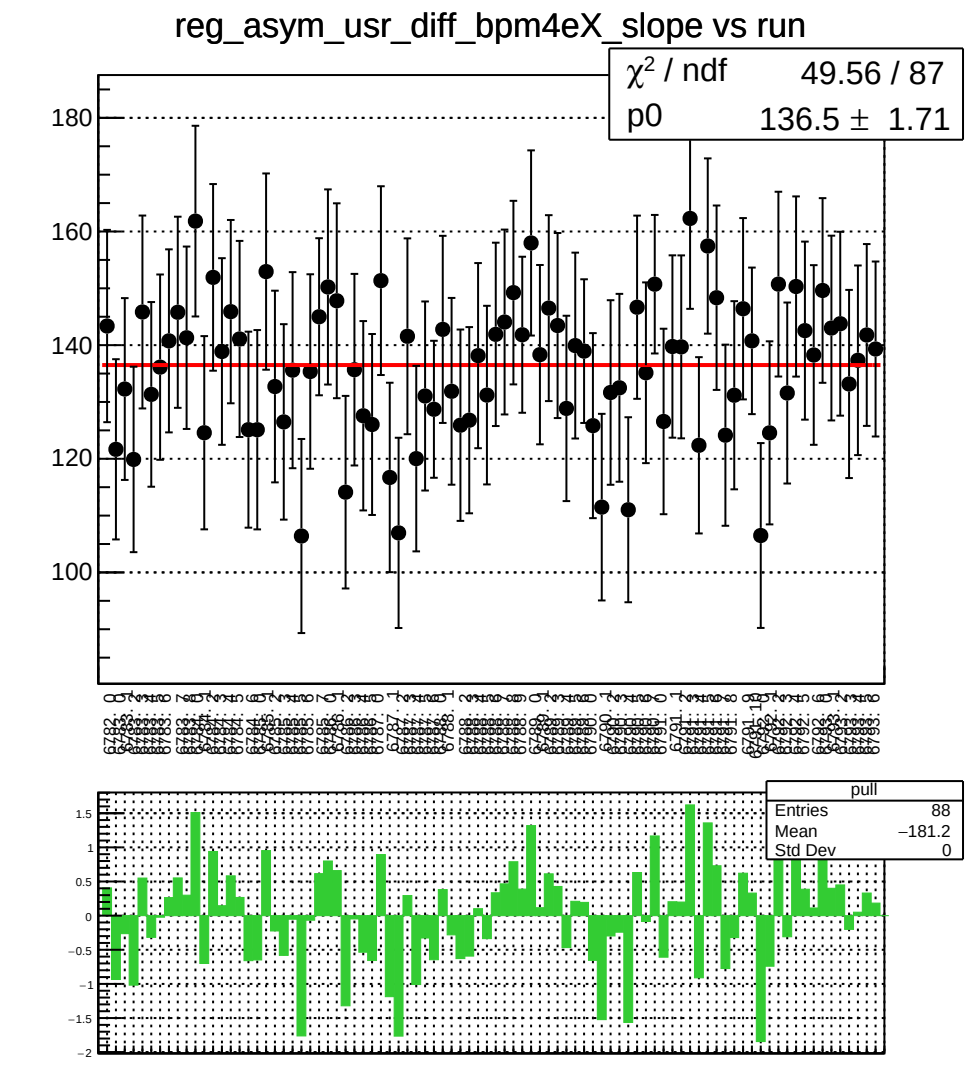

pull1D
Entries 88
Mean 0.01285
Std Dev 0.7407

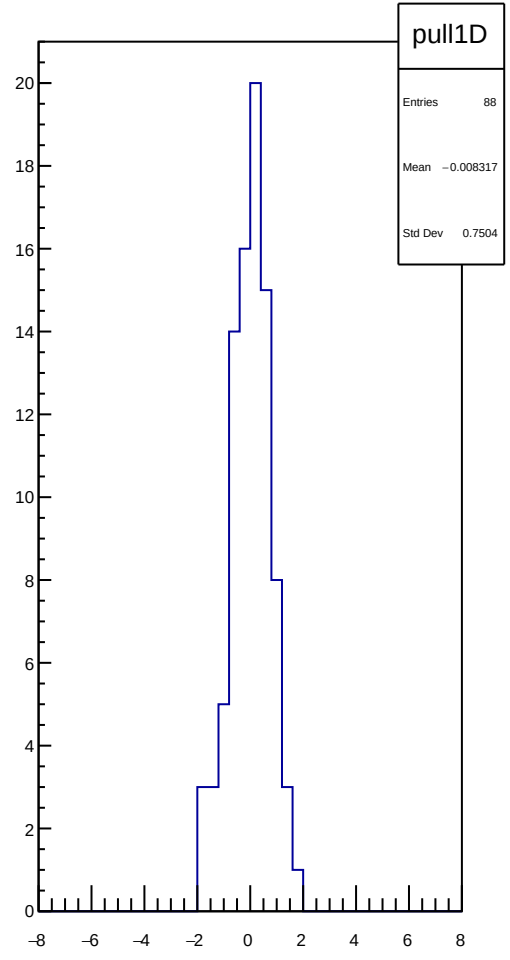

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 68.14 / 87
p0 −39.13 ± 0.07403
pull
Entries 88
Mean −210.1
Std Dev 0
pull1D
Entries 88
Mean −0.001432
Std Dev 0.88

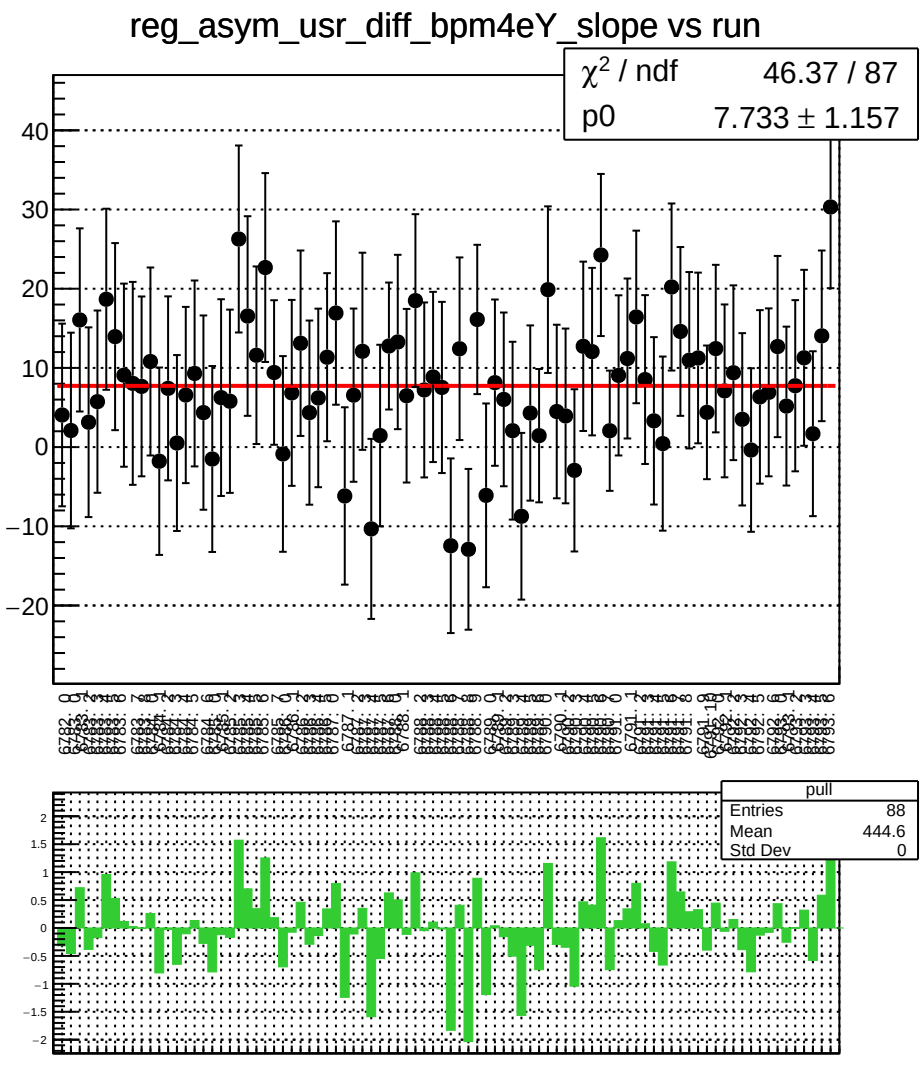

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 50.03 / 87
p0 −80.38 ± 1.834
−40
−60
−80
−100
−120
pull
Entries 88
Mean −174.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

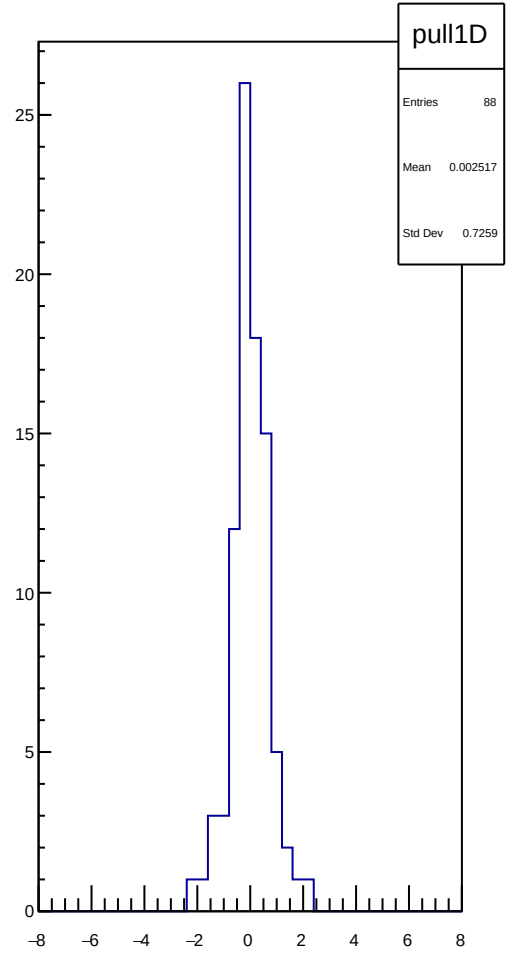

pull1D
Entries 88
Mean 0.007901
Std Dev 0.754
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

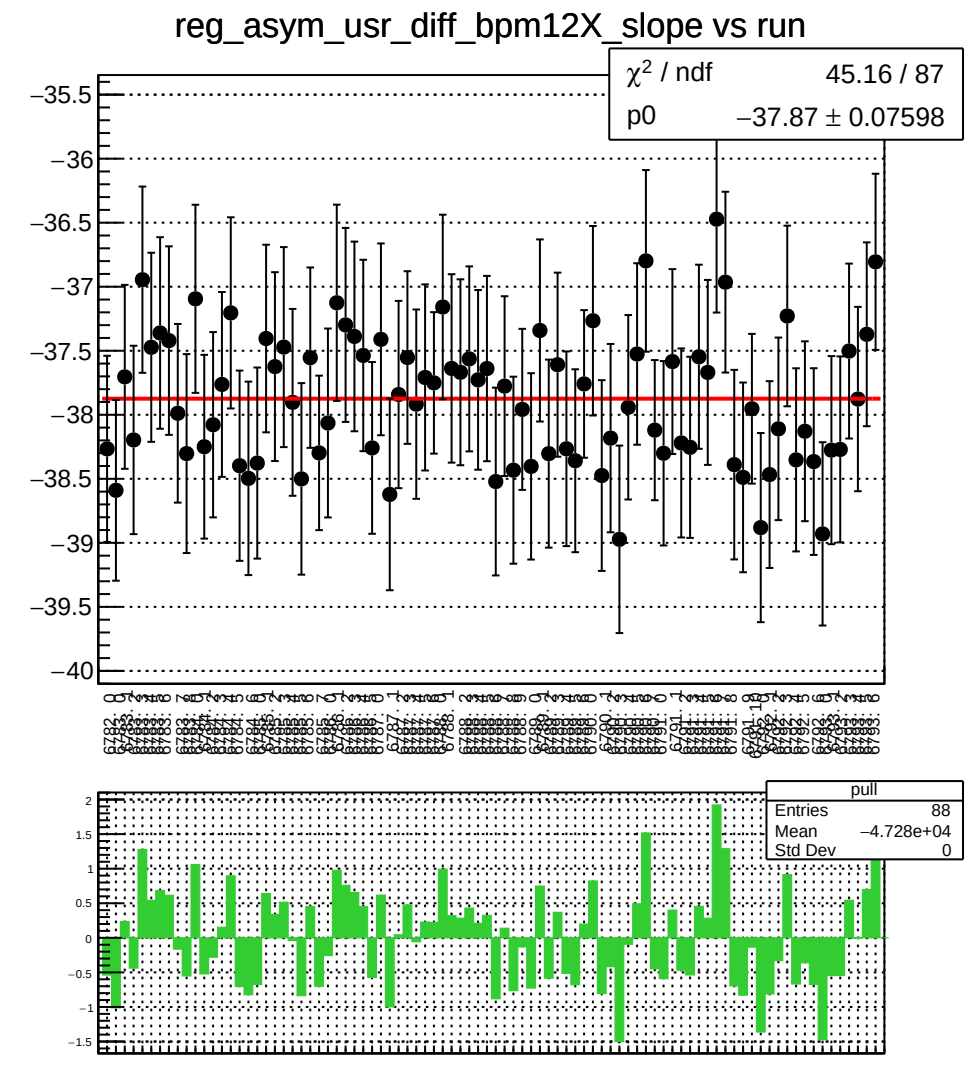

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 46.71 / 87
p0 5.935 ± 0.8433
pull
Entries 88
Mean 115.6
Std Dev 66.35
pull1D
Entries 88
Mean −0.007872
Std Dev 0.7285

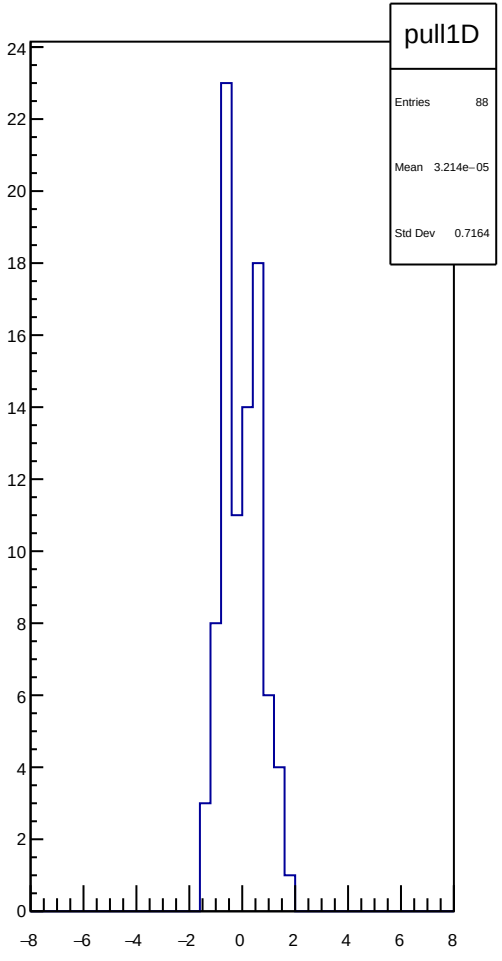

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 49.56 / 87
p0 136.5 ± 1.71
pull
Entries 88
Mean −181.2
Std Dev 0

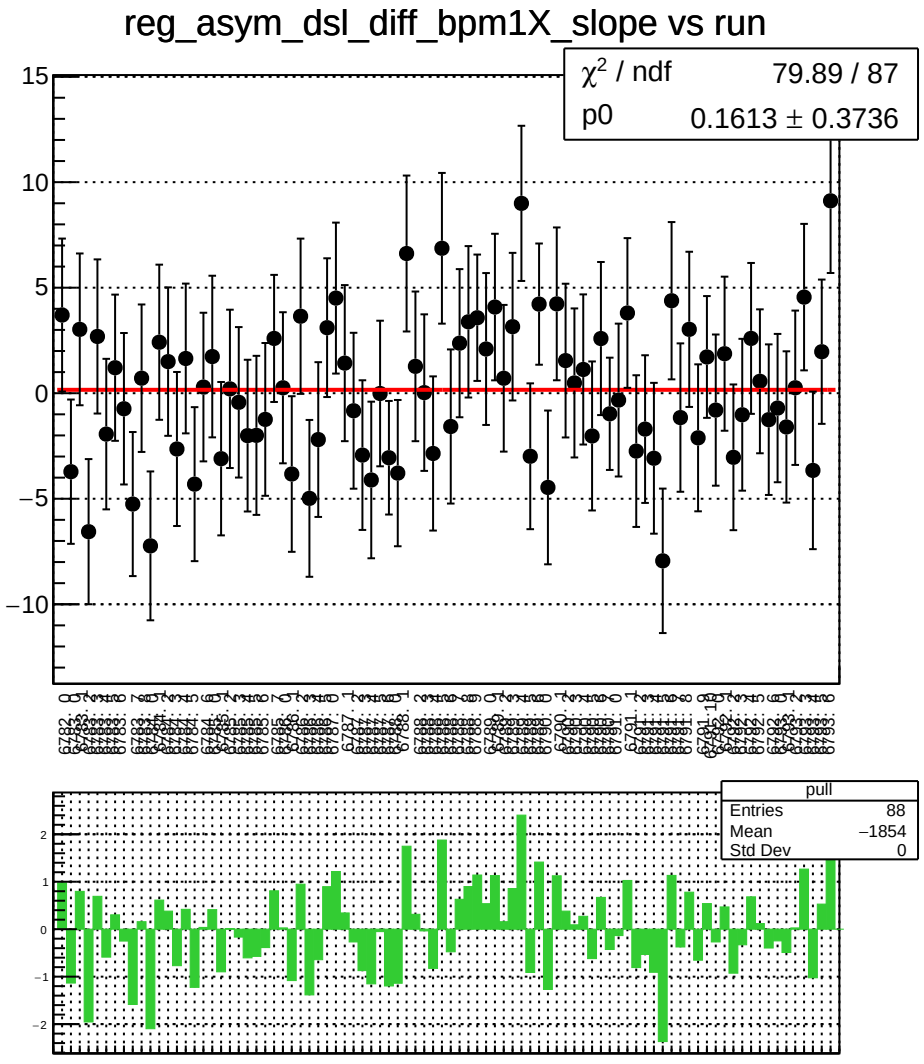

pull1D
Entries 88
Mean −0.008317
Std Dev 0.7504

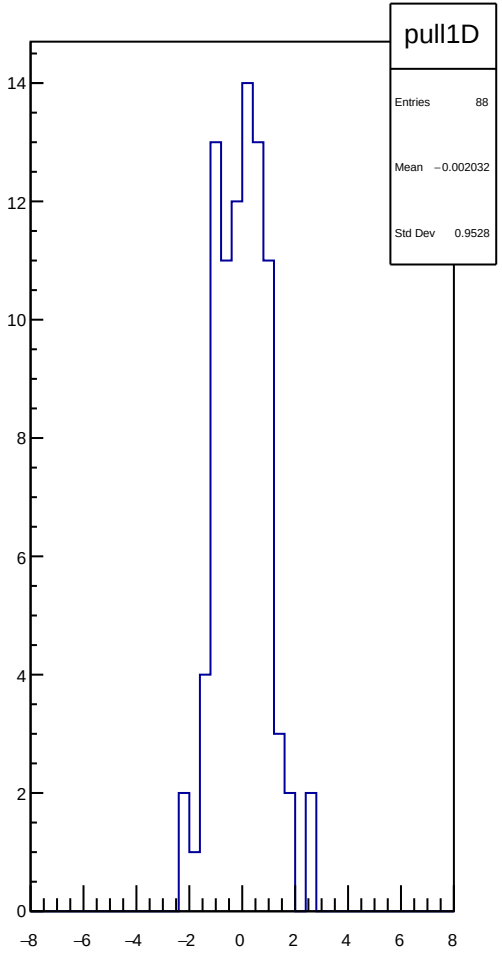

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 46.37 / 87
p0 7.733 ± 1.157
pull
Entries 88
Mean 444.6
Std Dev 0

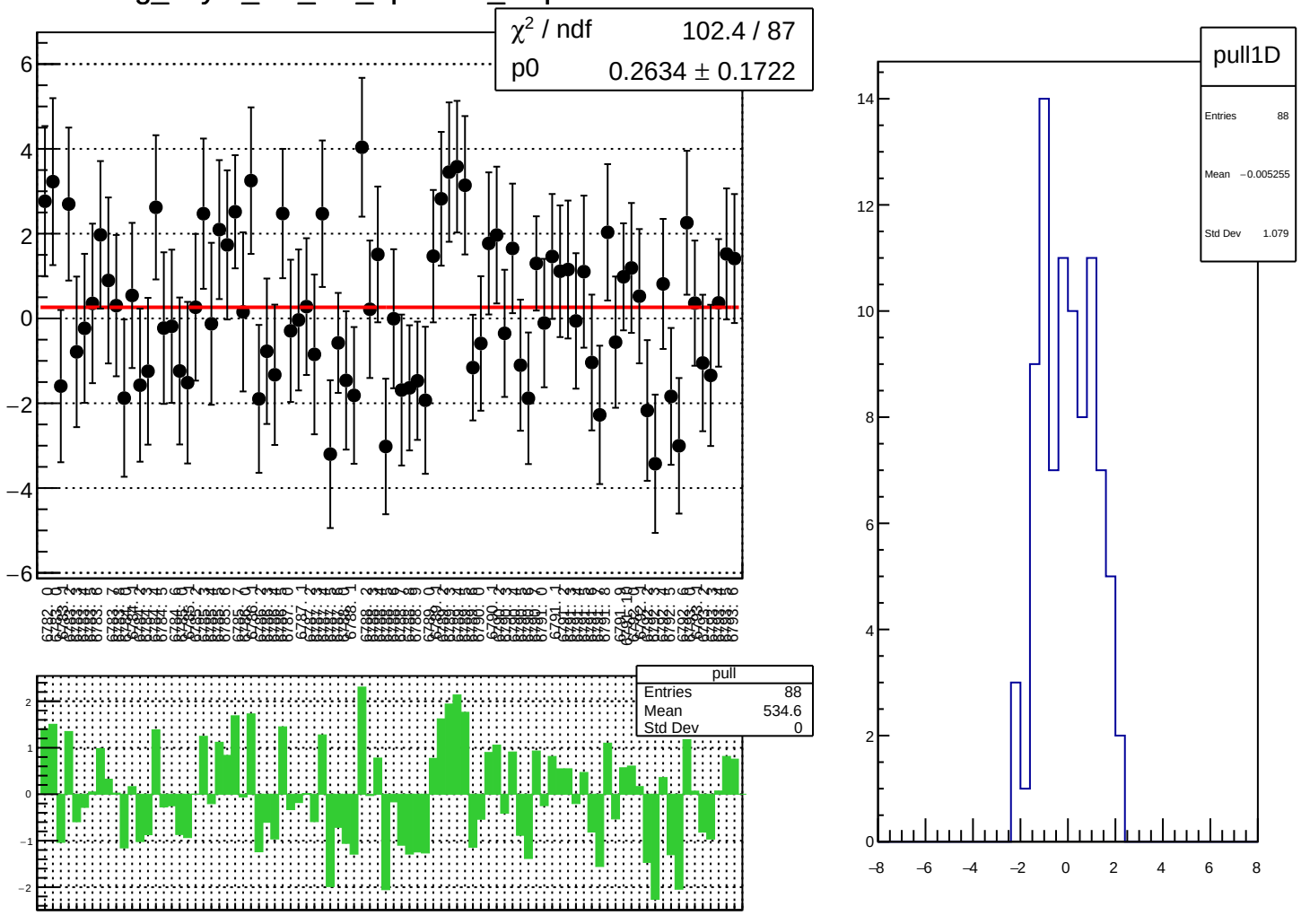

pull1D
Entries 88
Mean 0.002517
Std Dev 0.7259

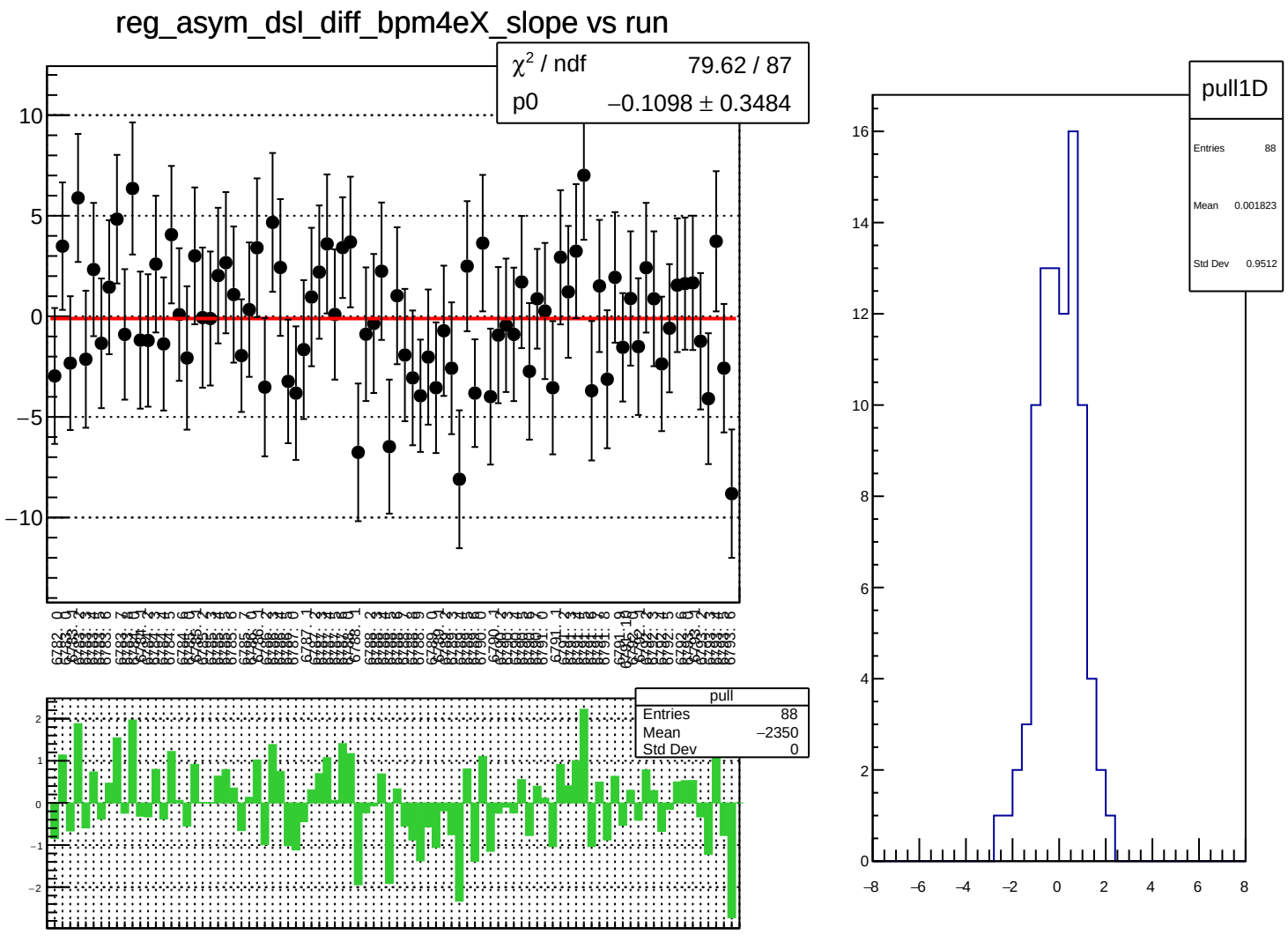

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 45.16 / 87
p0 −37.87 ± 0.07598
pull
Entries 88
Mean −4.728e+04
Std Dev 0

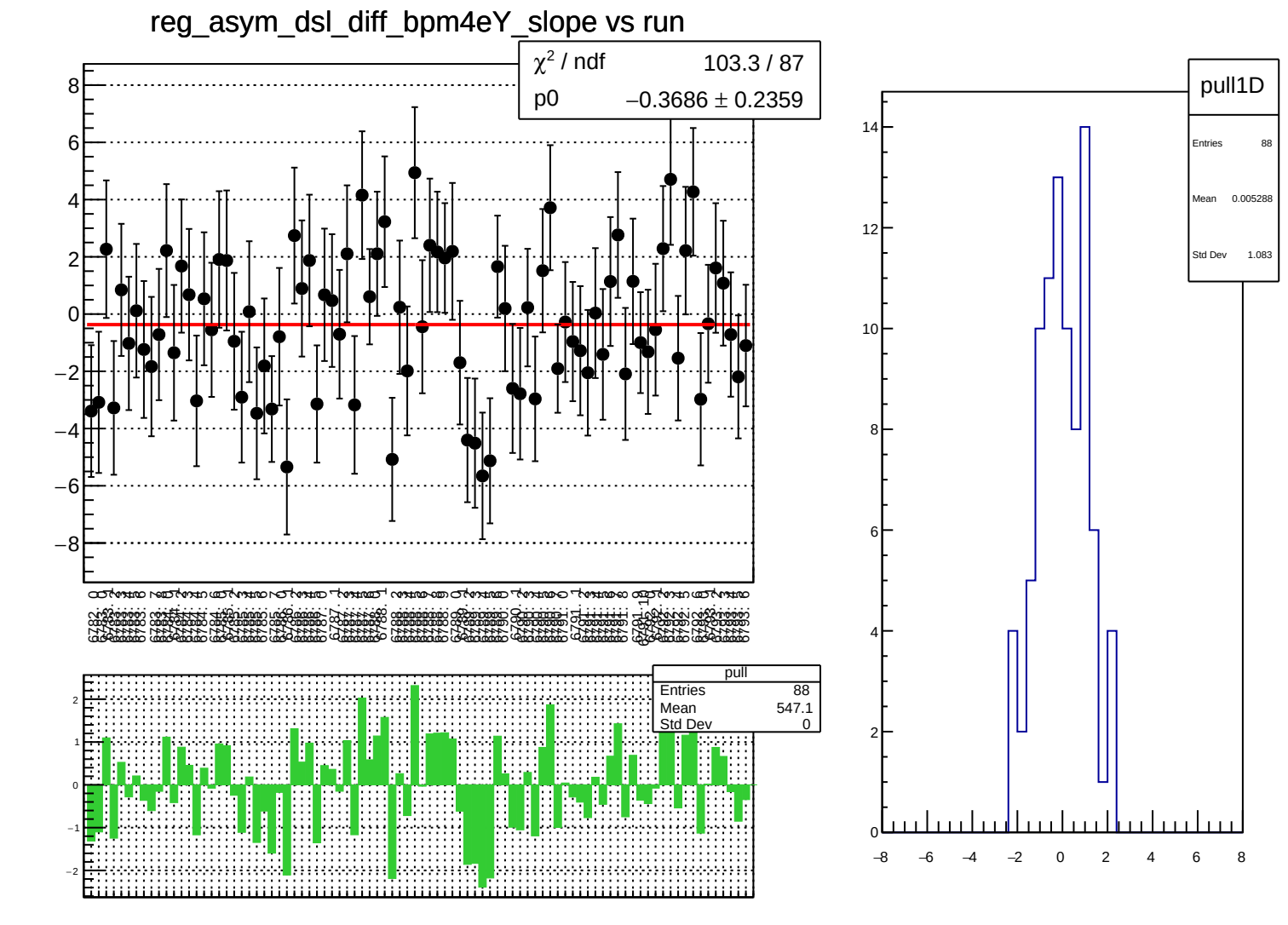

pull1D
Entries 88
Mean 3.214e−05
Std Dev 0.7164

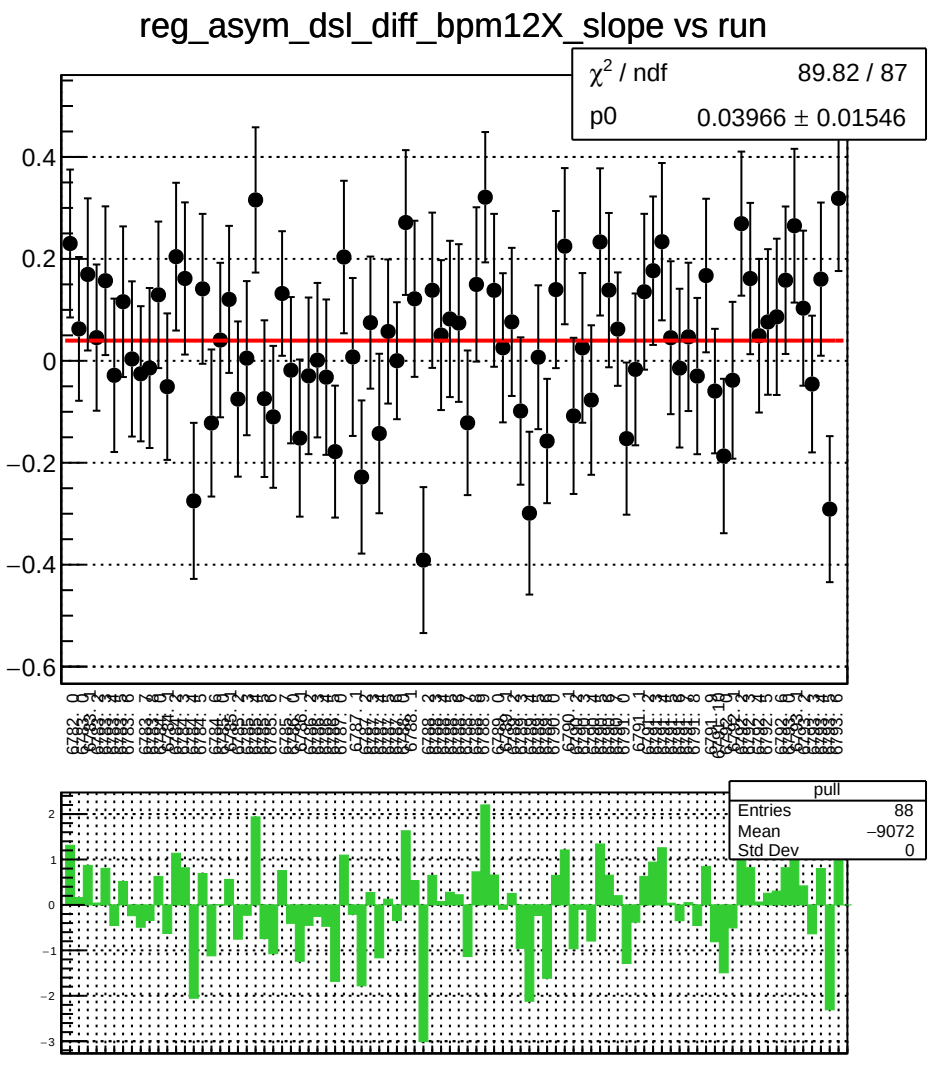

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 79.89 / 87
p0 0.1613 ± 0.3736
pull
Entries 88
Mean −1854
Std Dev 0

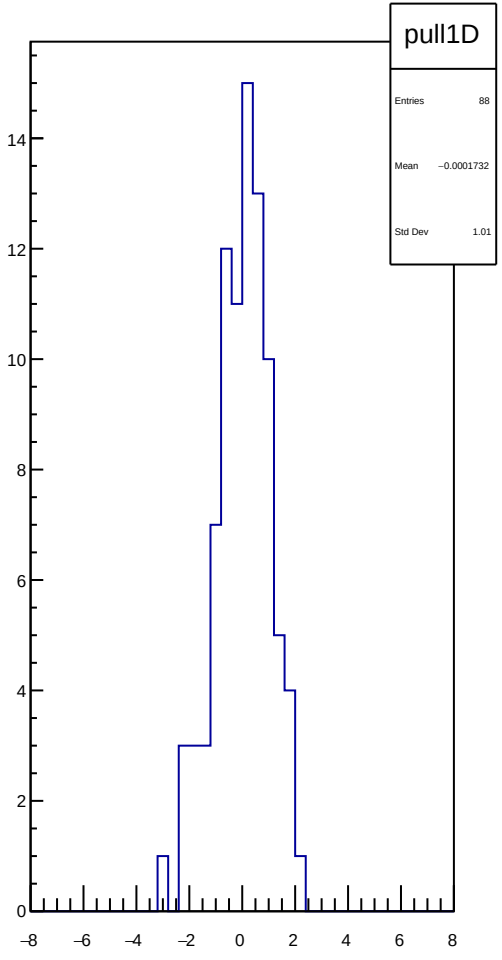

pull1D
Entries 88
Mean −0.002032
Std Dev 0.9528

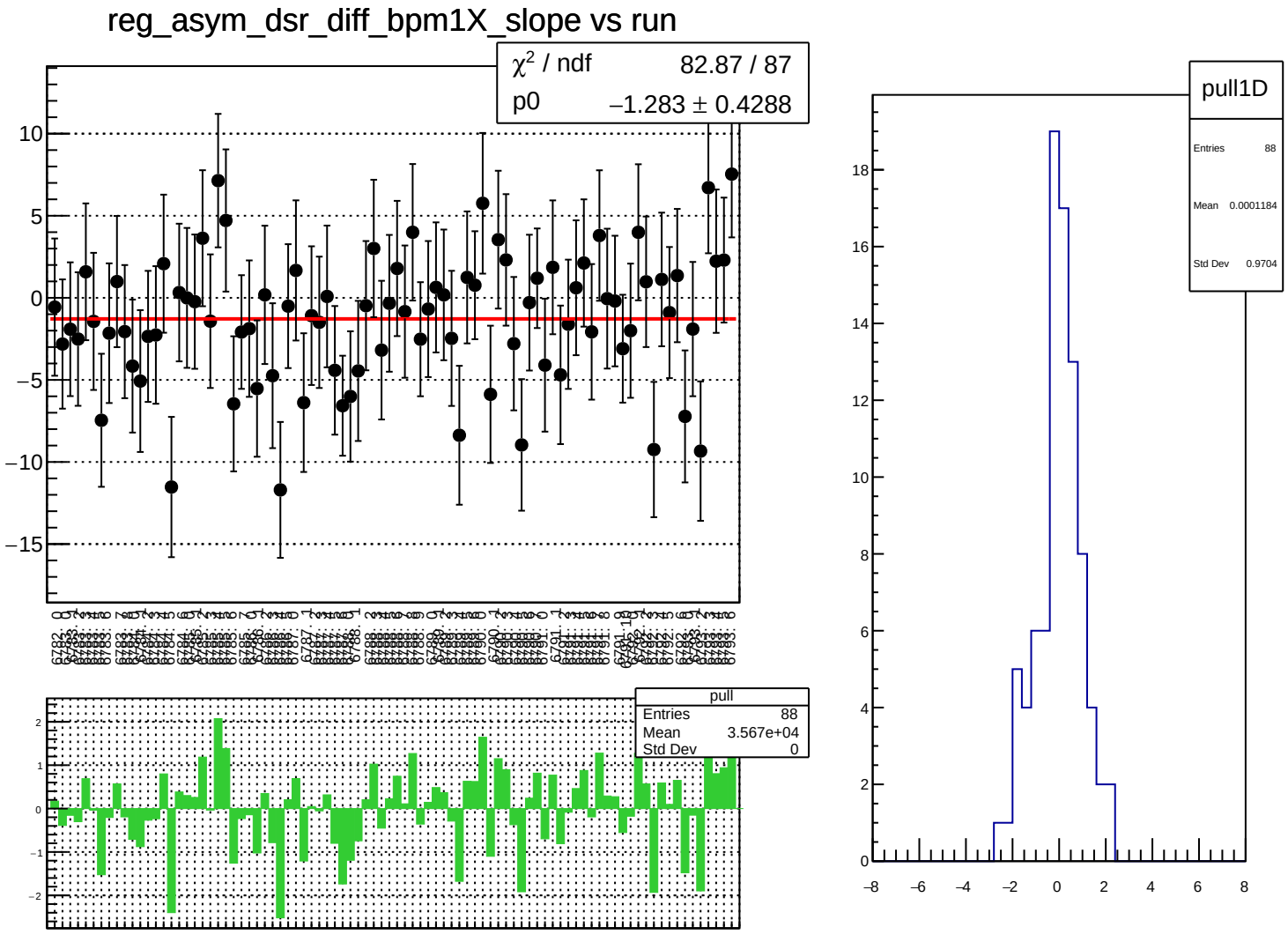

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 102.4 / 87
p0 0.2634 ± 0.1722
pull
Entries 88
Mean 534.6
Std Dev 0
pull1D
Entries 88
Mean −0.005255
Std Dev 1.079

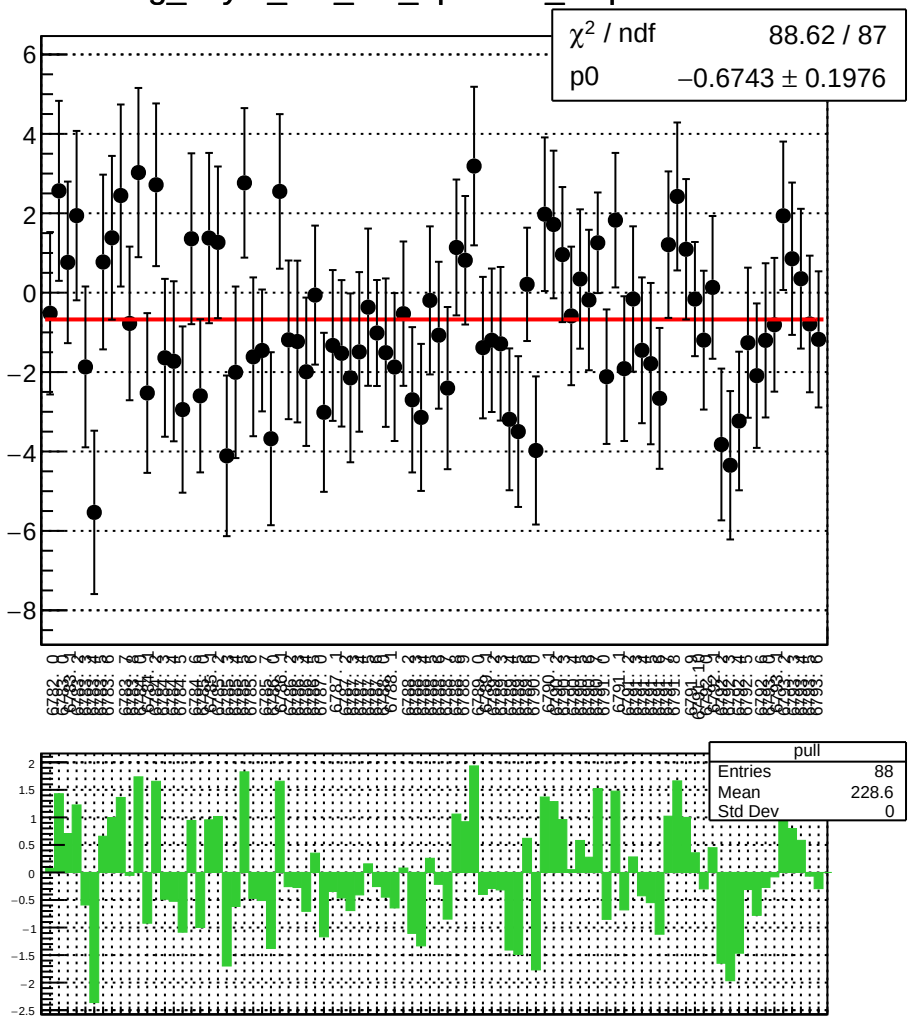

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 79.62 / 87
p0 −0.1098 ± 0.3484
pull
Entries 88
Mean −2350
Std Dev 0
pull1D
Entries 88
Mean 0.001823
Std Dev 0.9512

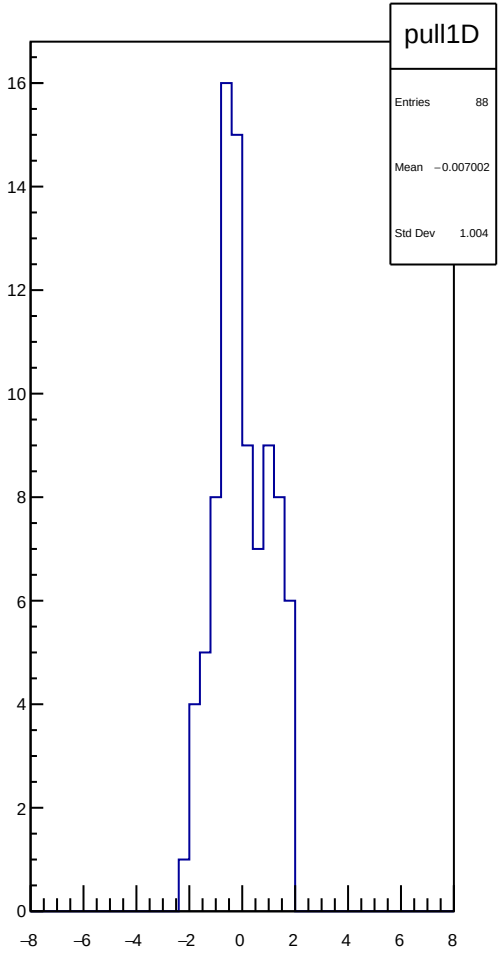

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 103.3 / 87
p0 −0.3686 ± 0.2359
pull
Entries 88
Mean 547.1
Std Dev 0
pull1D
Entries 88
Mean 0.005288
Std Dev 1.083

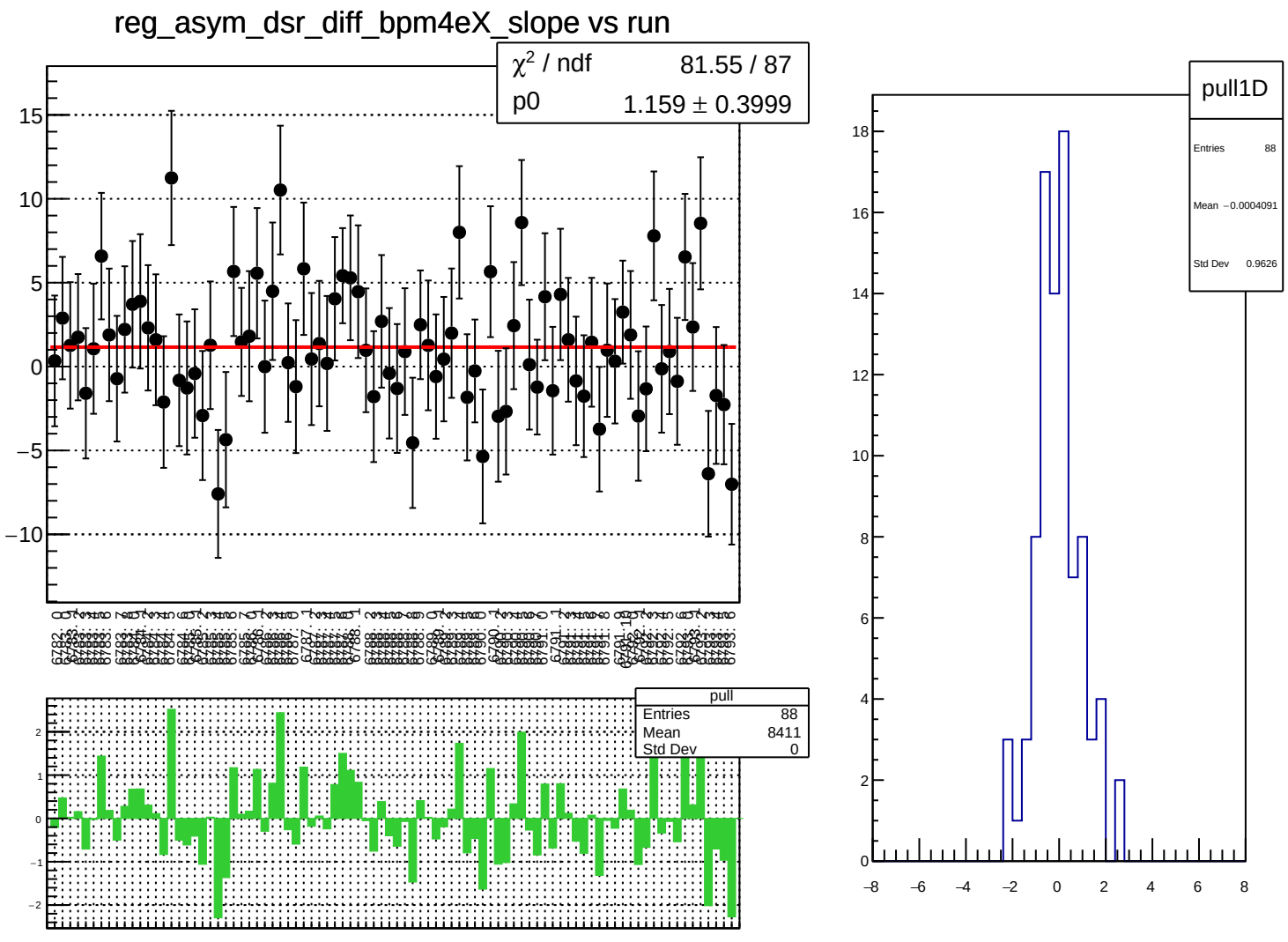

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 89.82 / 87
p0 0.03966 ± 0.01546
pull
Entries 88
Mean −9072
Std Dev 0

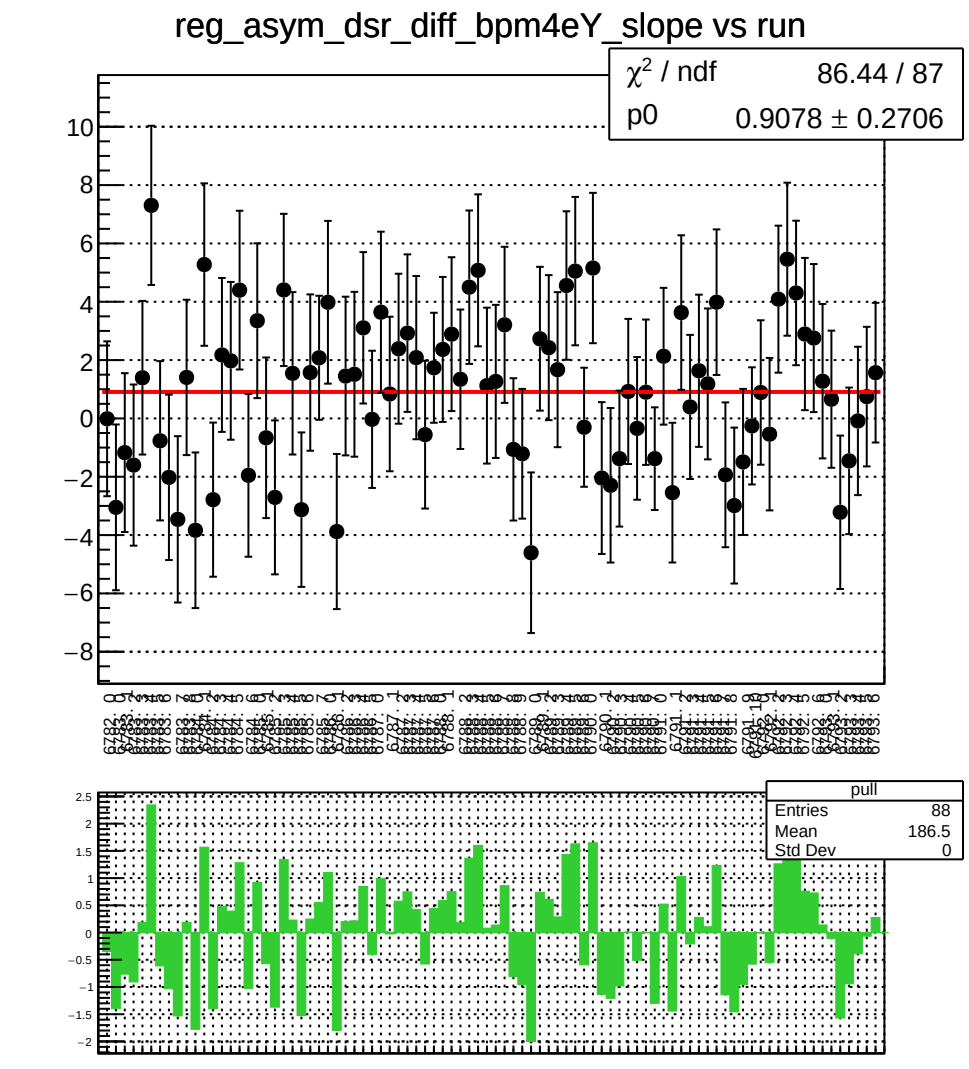

pull1D
Entries 88
Mean −0.0001732
Std Dev 1.01

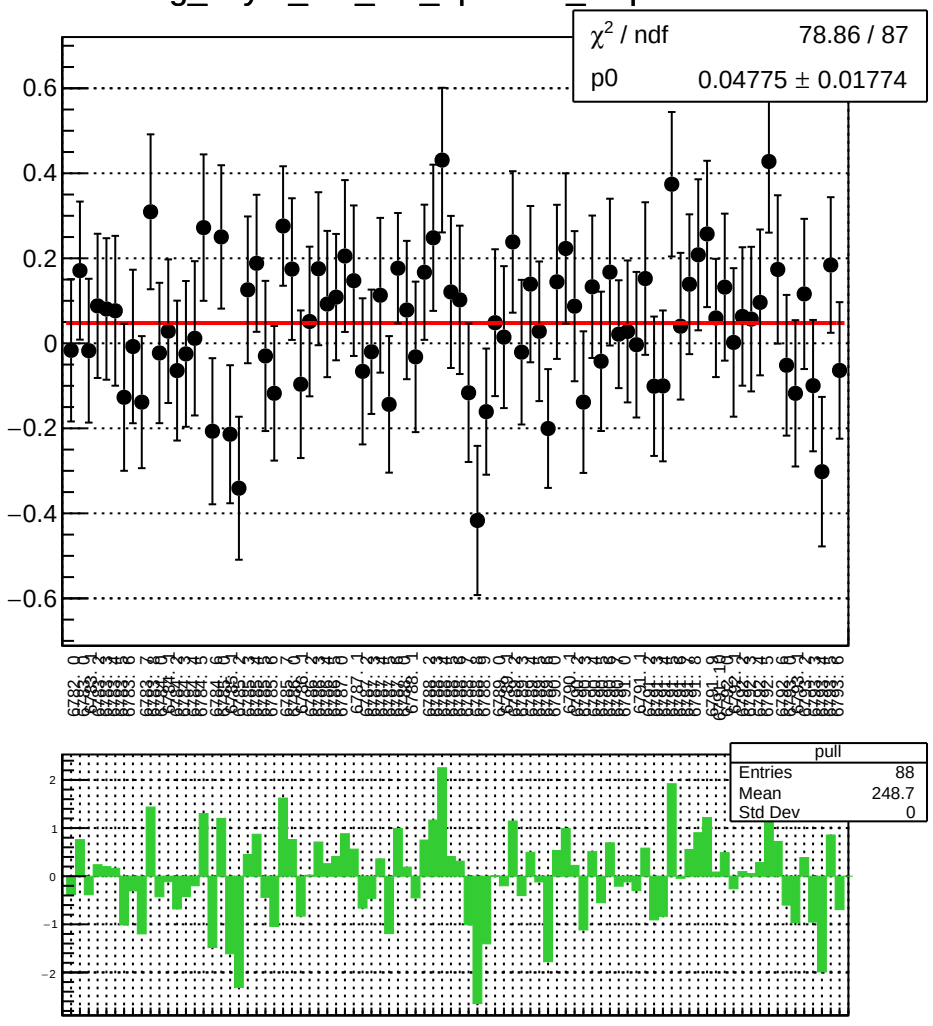

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 82.87 / 87
p0 −1.283 ± 0.4288
pull
Entries 88
Mean 3.567e+04
Std Dev 0
pull1D
Entries 88
Mean 0.0001184
Std Dev 0.9704

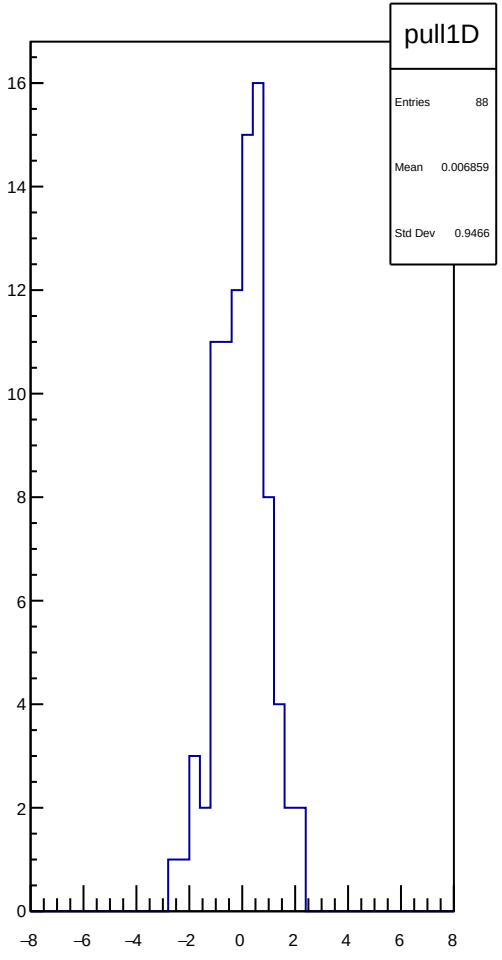

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 88.62 / 87
p0 −0.6743 ± 0.1976
pull
Entries 88
Mean 228.6
Std Dev 0

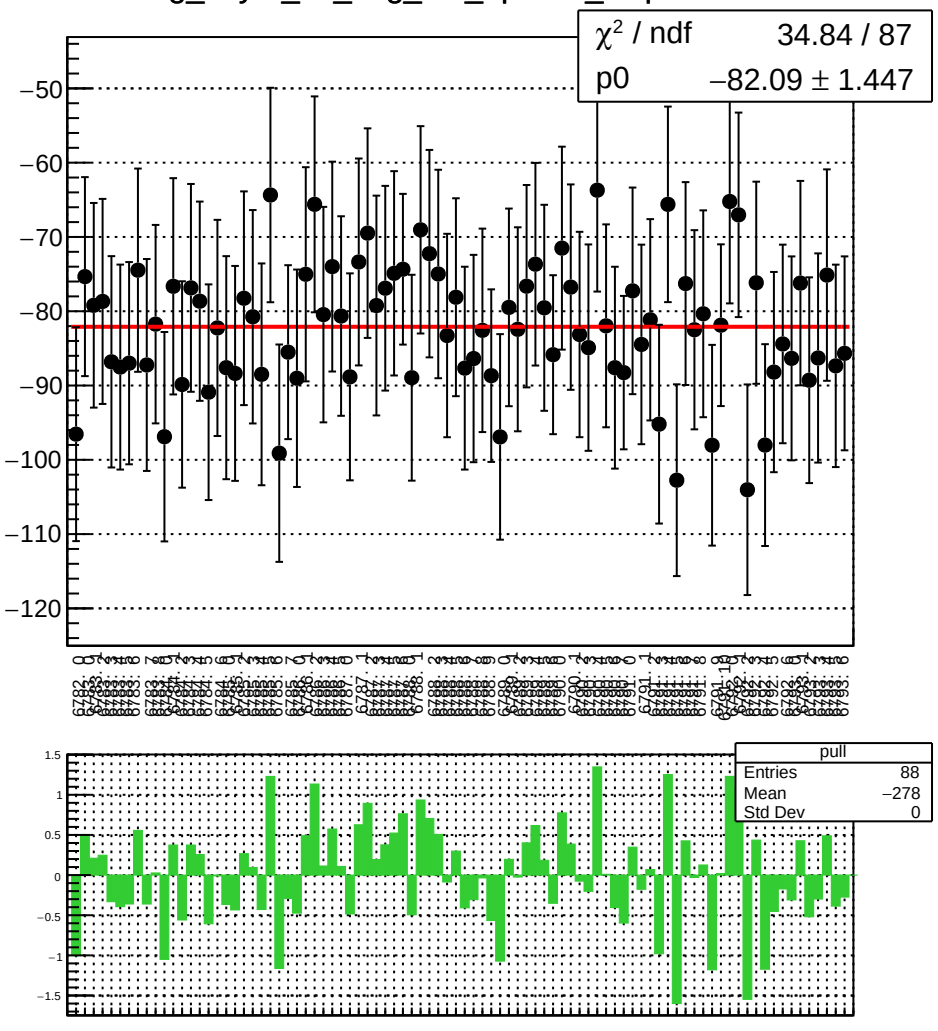

pull1D
Entries 88
Mean −0.007002
Std Dev 1.004

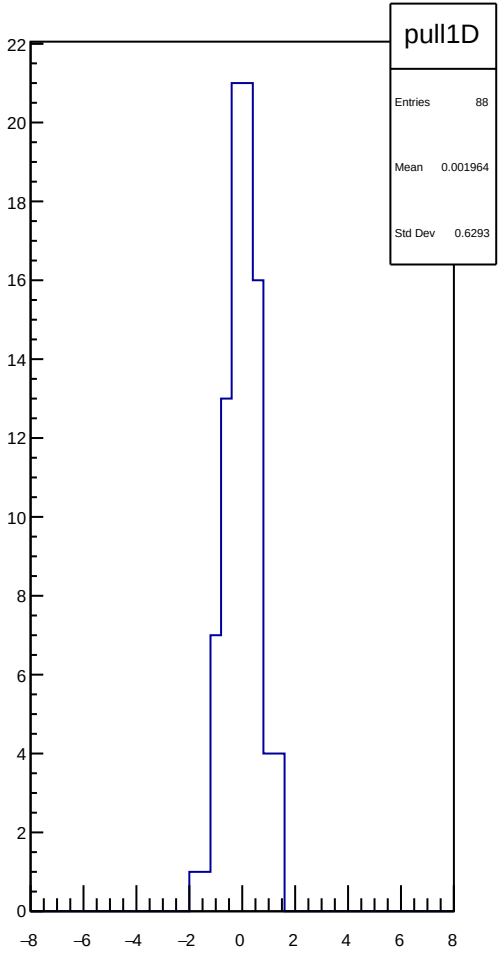

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 81.55 / 87
p0 1.159 ± 0.3999
pull
Entries 88
Mean 8411
Std Dev 0
pull1D
Entries 88
Mean −0.0004091
Std Dev 0.9626

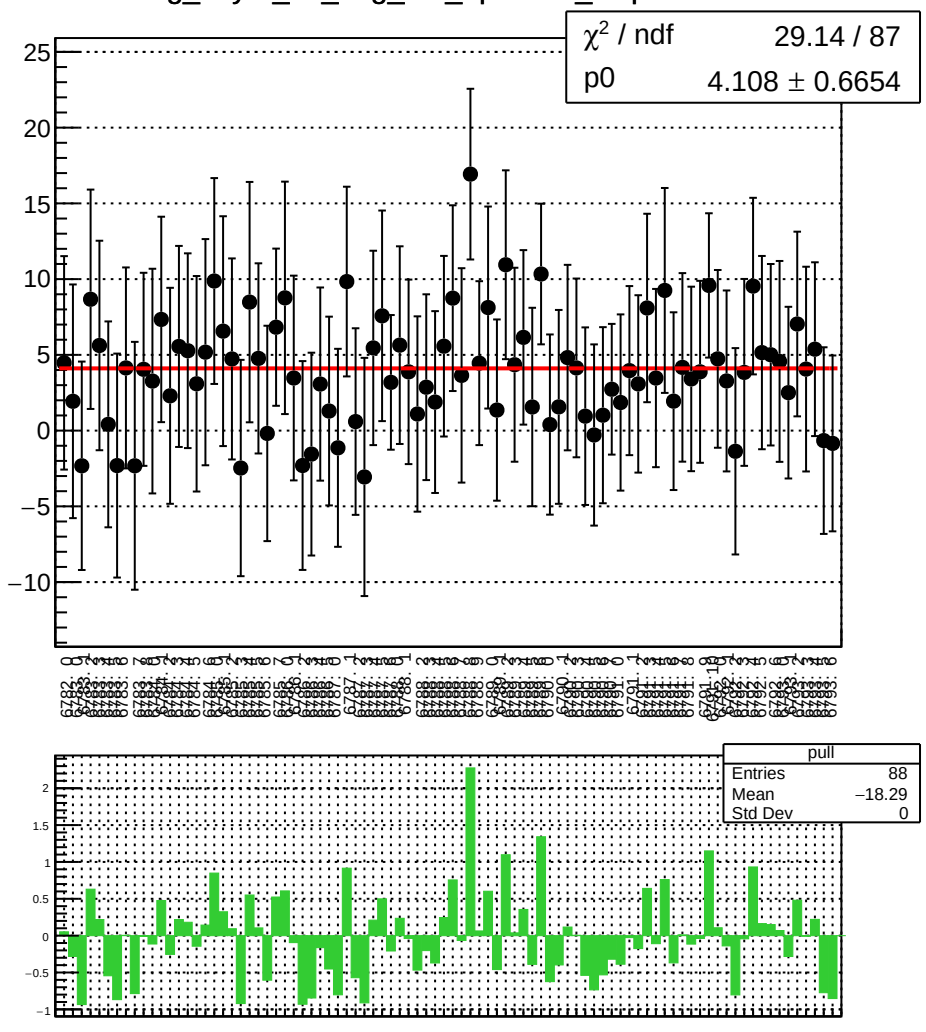

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 86.44 / 87
p0 0.9078 ± 0.2706
pull
Entries 88
Mean 186.5
Std Dev 0
pull1D
Entries 88
Mean 0.007449
Std Dev 0.9911

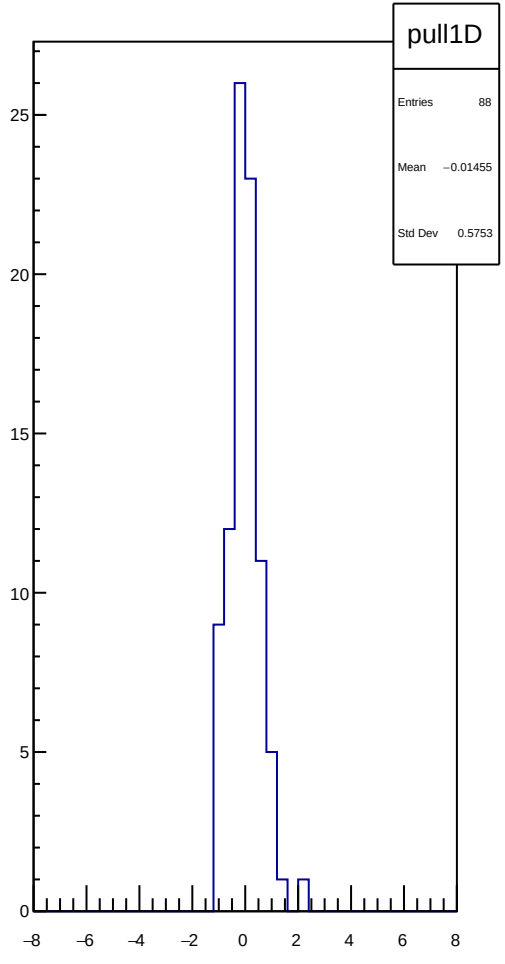

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 78.86 / 87
p0 0.04775 ± 0.01774
pull
Entries 88
Mean 248.7
Std Dev 0

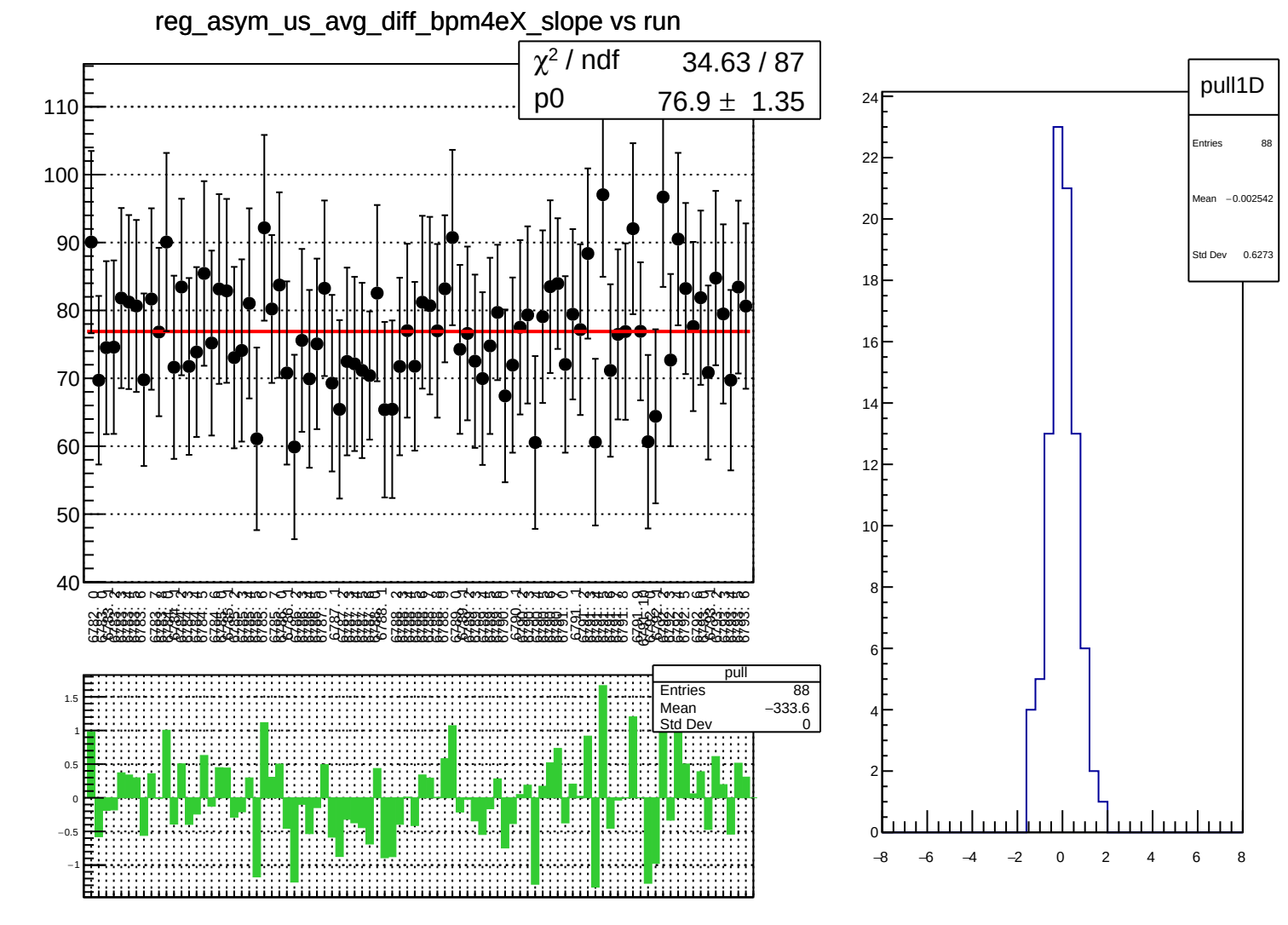

pull1D
Entries 88
Mean 0.006859
Std Dev 0.9466

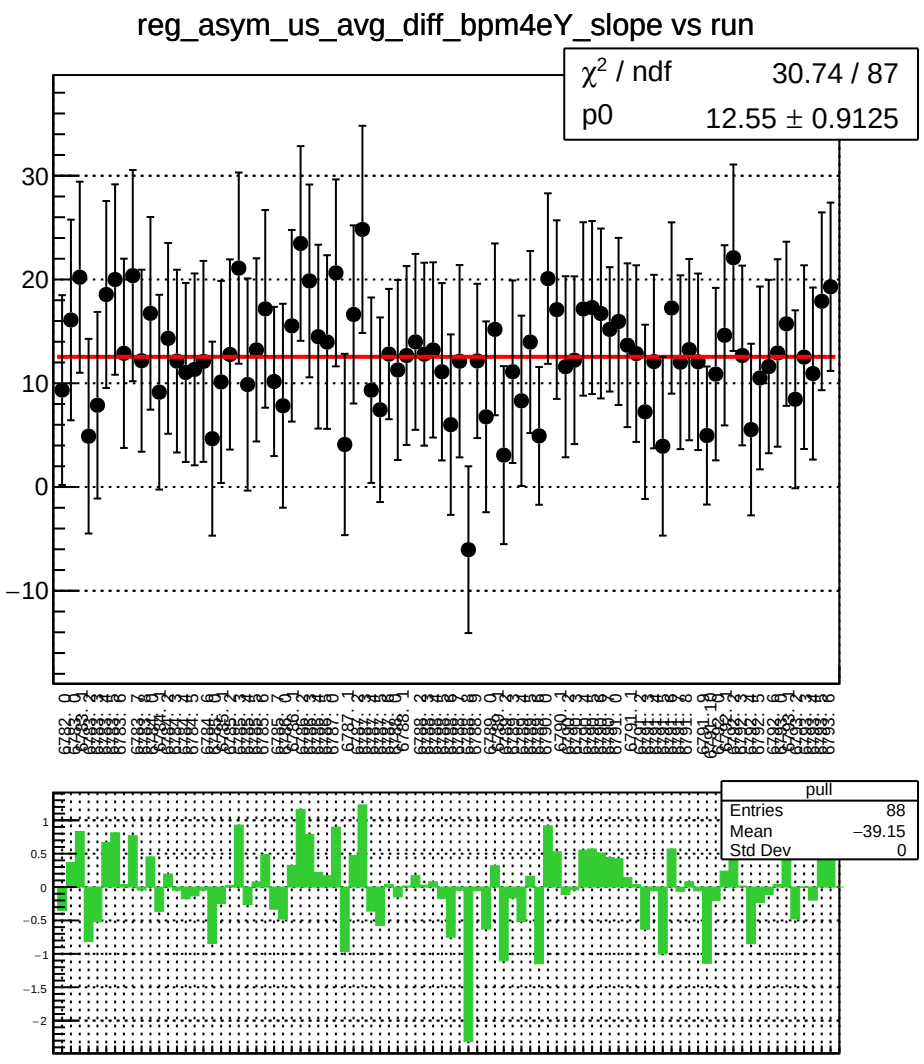

reg_asym_us_avg_diff_bpm1X_slope vs run
χ^2 / ndf 34.84 / 87
p0 −82.09 ± 1.447
pull
Entries 88
Mean −278
Std Dev 0

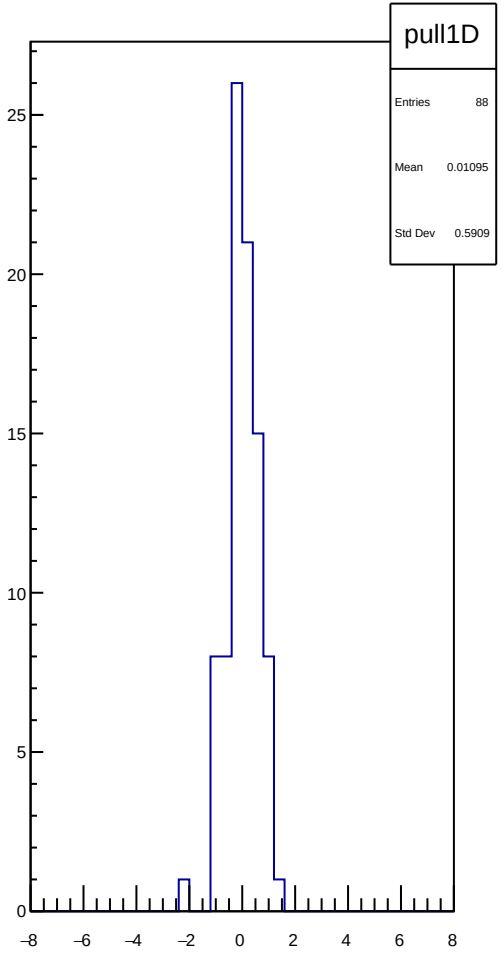

pull1D
Entries 88
Mean 0.001964
Std Dev 0.6293

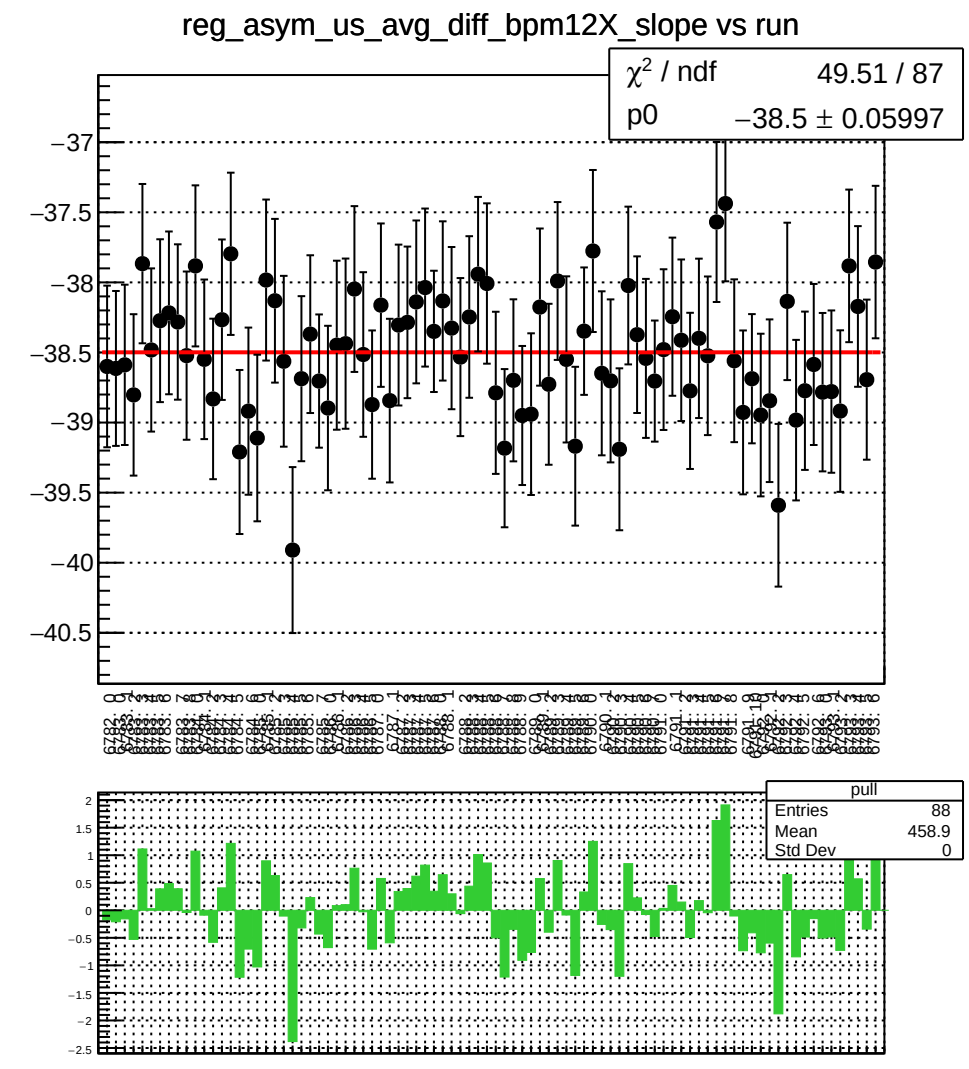

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.14 / 87
p0 4.108 ± 0.6654
pull
Entries 88
Mean −18.29
Std Dev 0

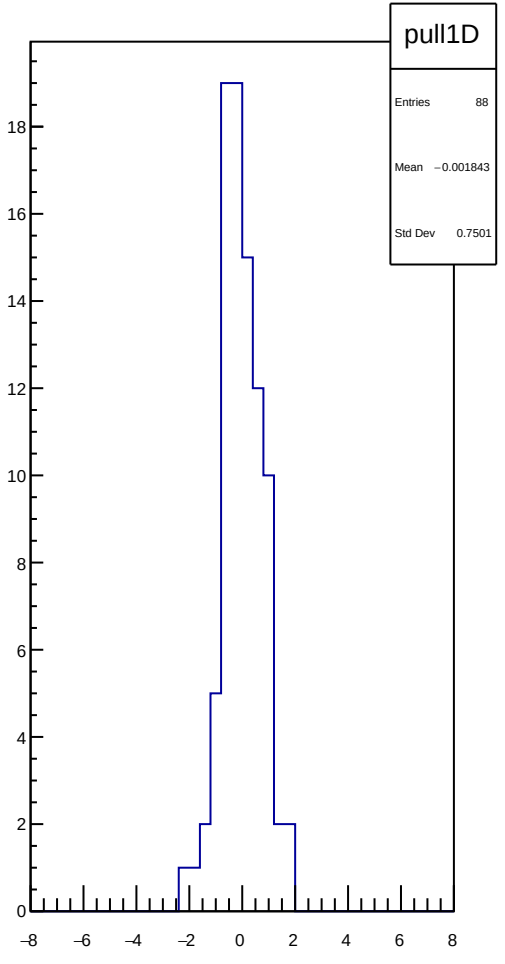

pull1D
Entries 88
Mean −0.01455
Std Dev 0.5753

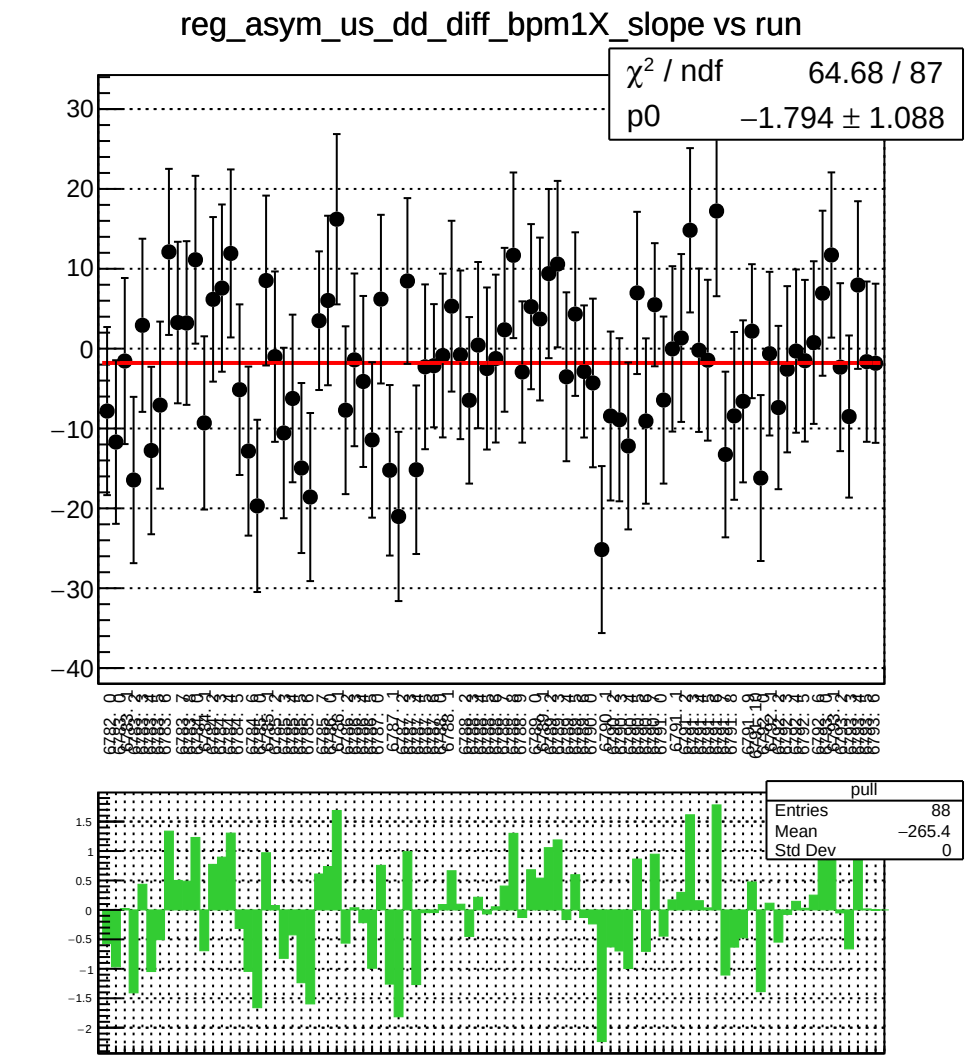

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.63 / 87
p0 76.9 ± 1.35
pull
Entries 88
Mean −333.6
Std Dev 0
pull1D
Entries 88
Mean −0.002542
Std Dev 0.6273

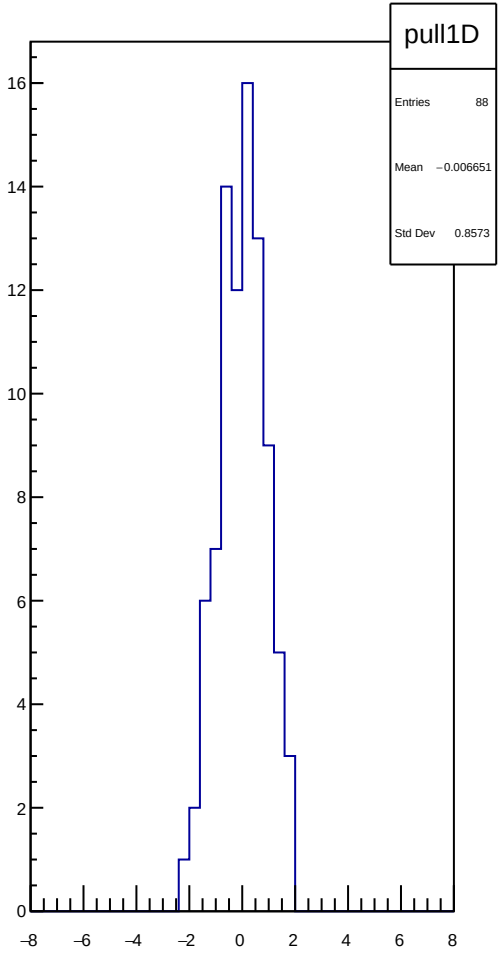

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.74 / 87
p0 12.55 ± 0.9125
pull
Entries 88
Mean −39.15
Std Dev 0

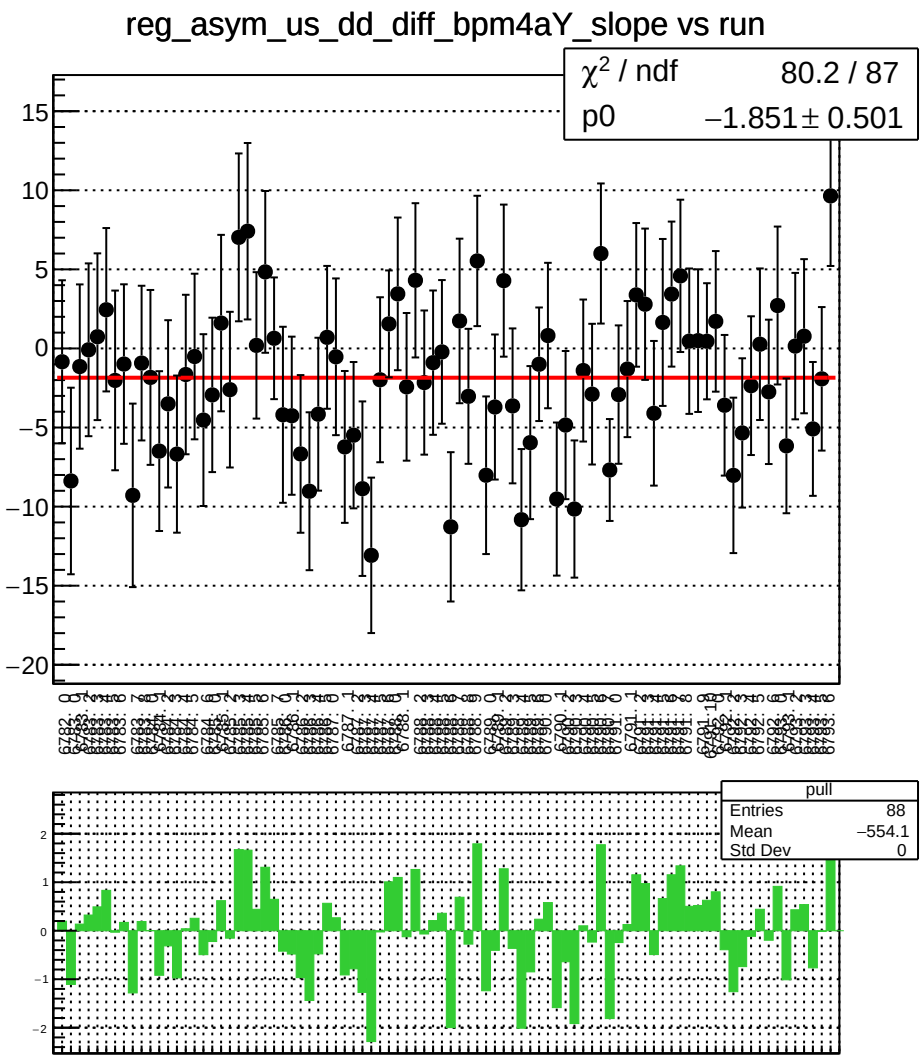

pull1D
Entries 88
Mean 0.01095
Std Dev 0.5909

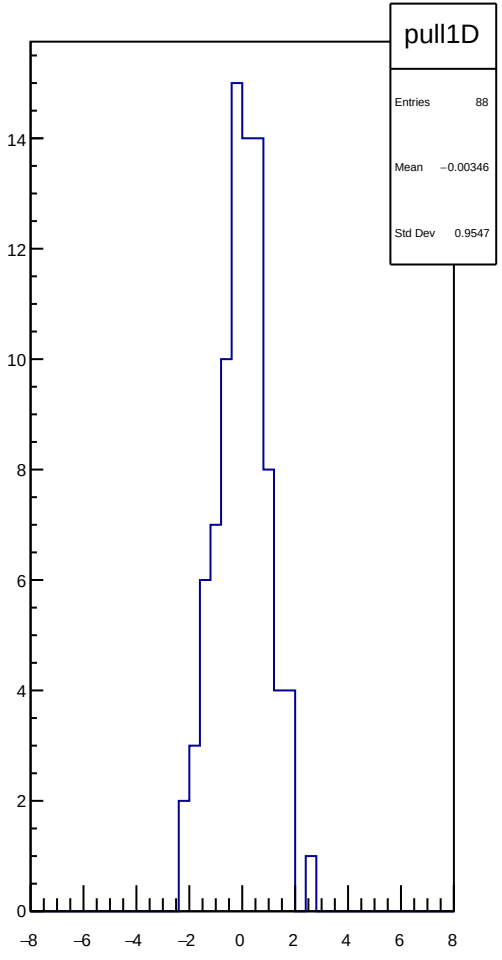

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 49.51 / 87
p0 −38.5 ± 0.05997
pull
Entries 88
Mean 458.9
Std Dev 0

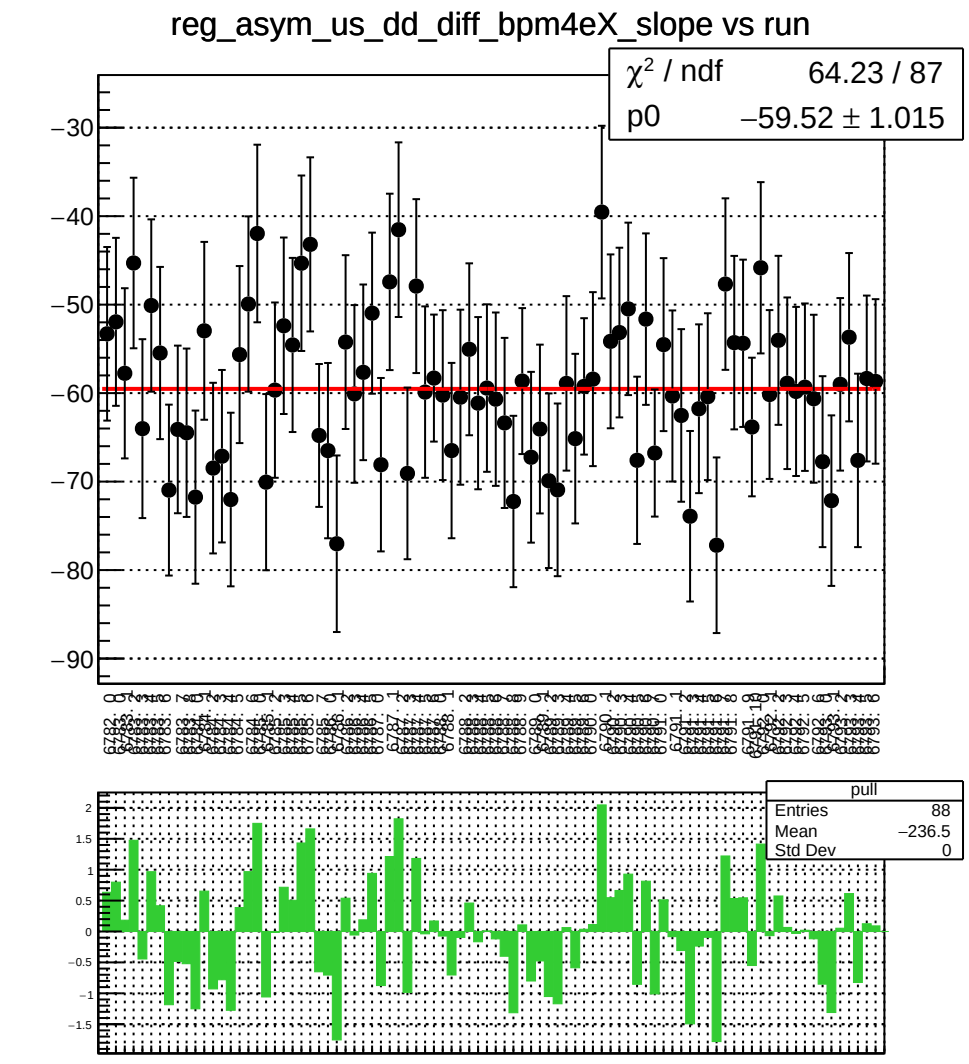

pull1D
Entries 88
Mean −0.001843
Std Dev 0.7501

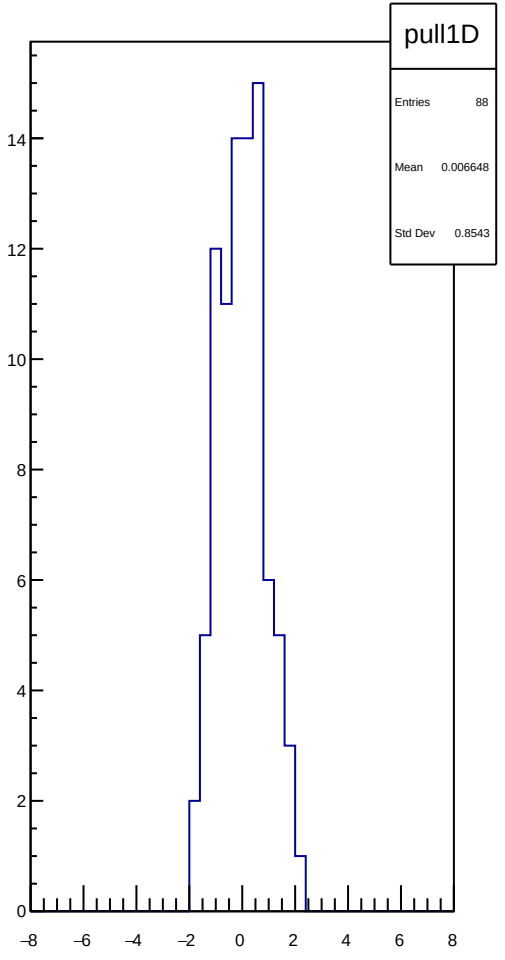

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 64.68 / 87
p0 −1.794 ± 1.088
pull
Entries 88
Mean −265.4
Std Dev 0

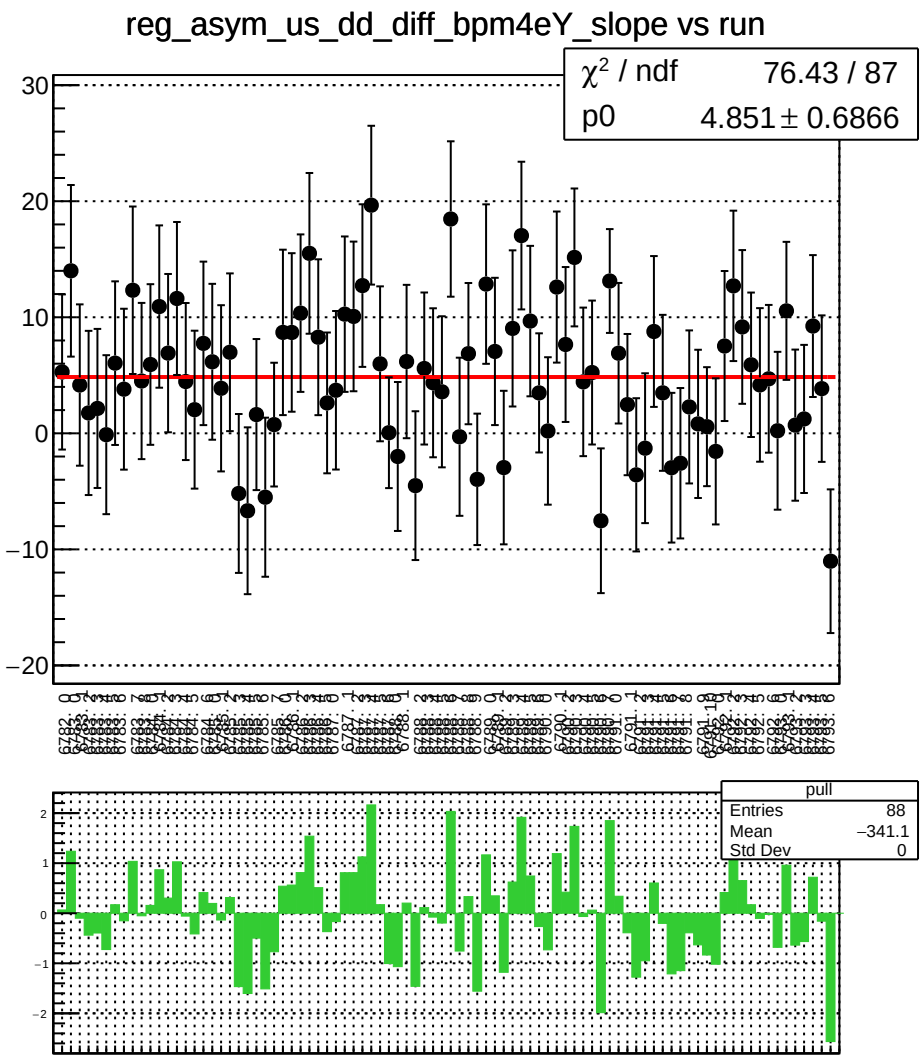

pull1D
Entries 88
Mean −0.006651
Std Dev 0.8573

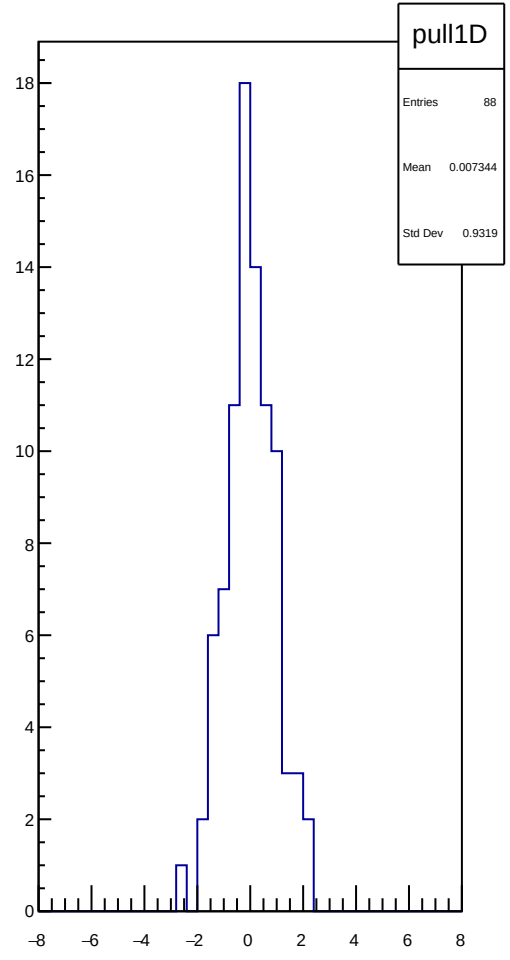

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.2 / 87
p0 −1.851 ± 0.501
pull
Entries 88
Mean −554.1
Std Dev 0

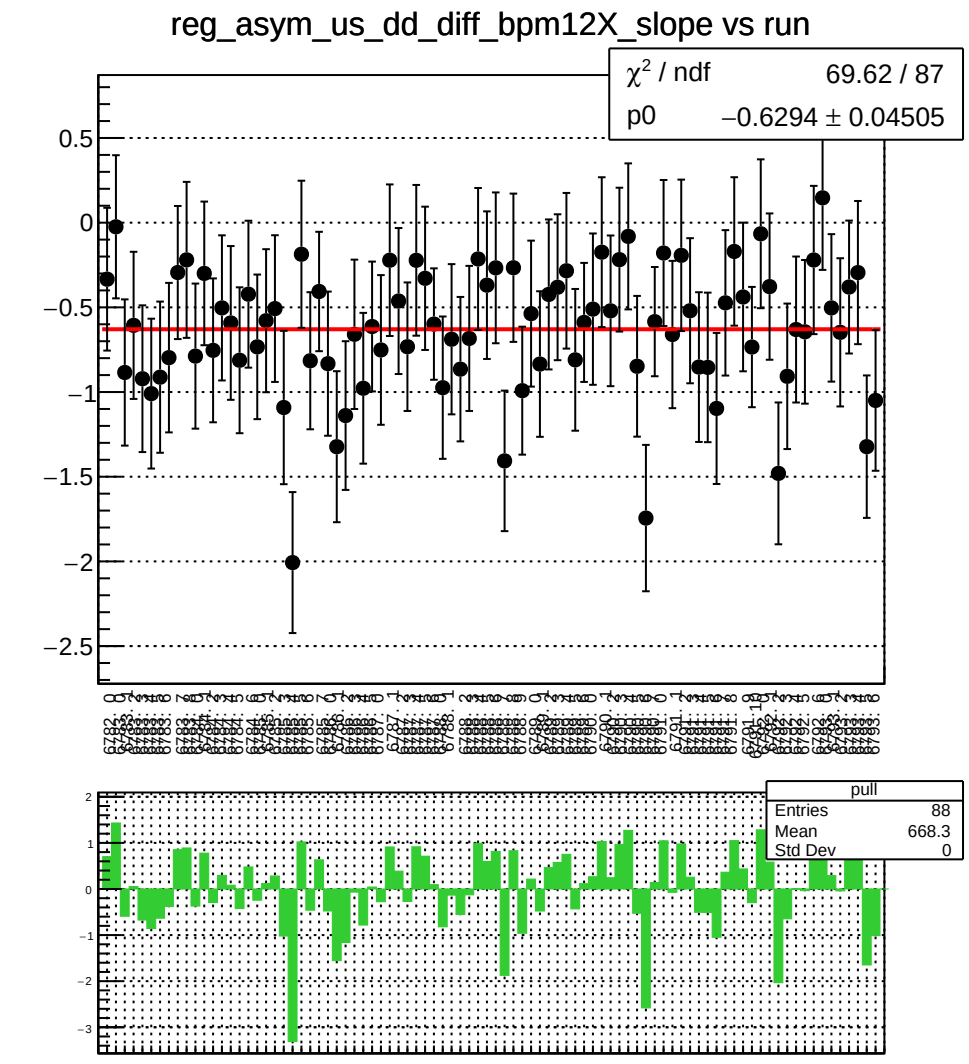

pull1D
Entries 88
Mean −0.00346
Std Dev 0.9547

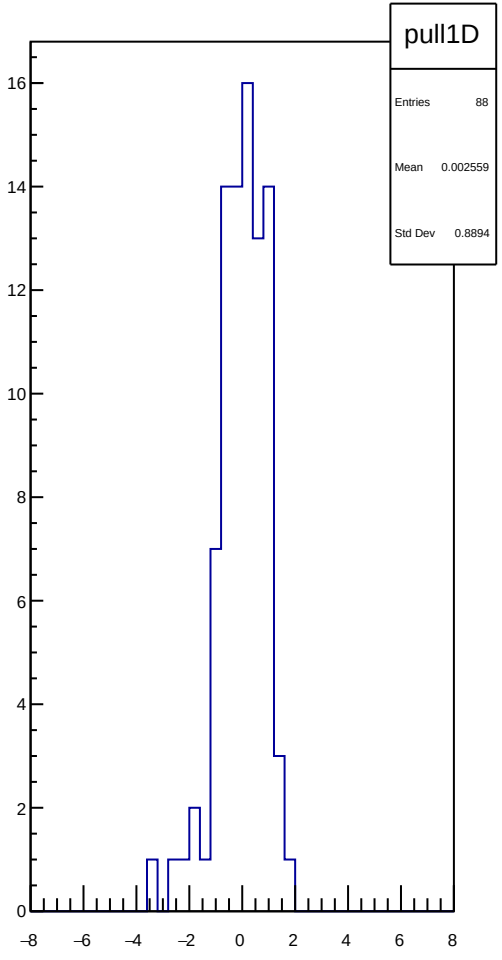

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.23 / 87
p0 −59.52 ± 1.015
pull
Entries 88
Mean −236.5
Std Dev 0

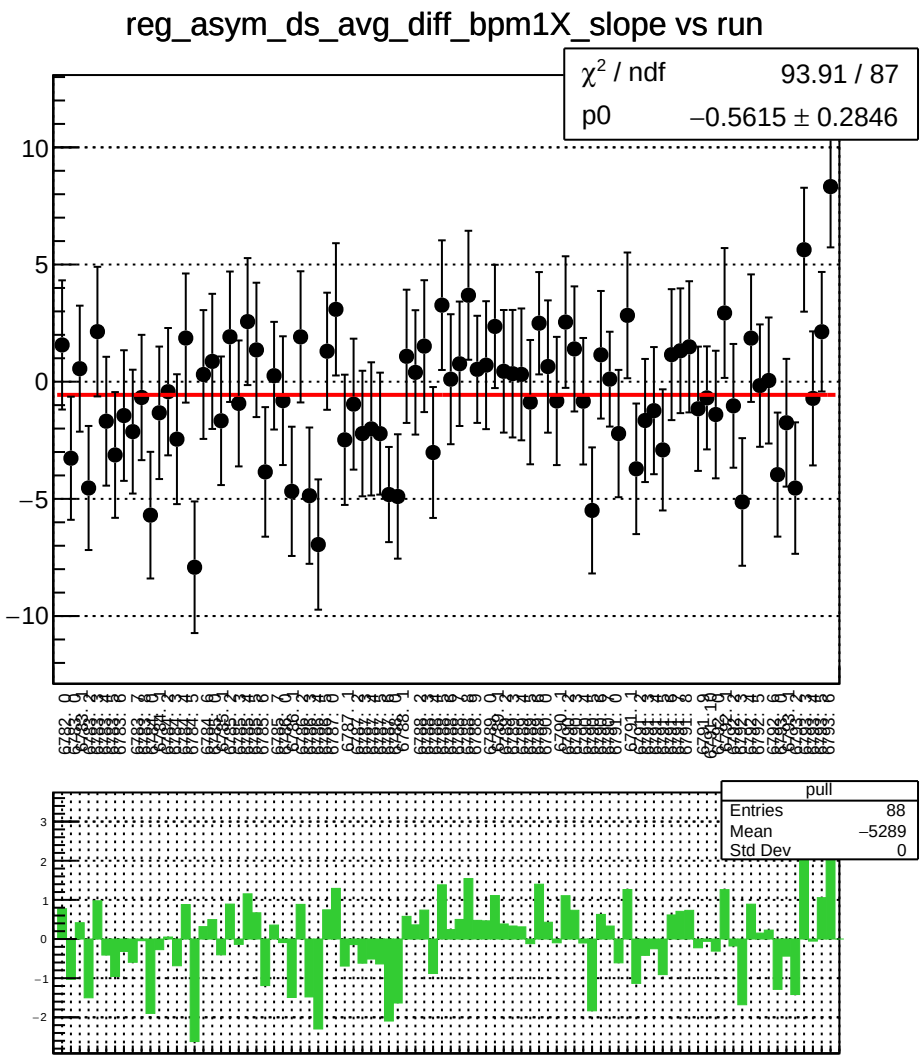

pull1D
Entries 88
Mean 0.006648
Std Dev 0.8543

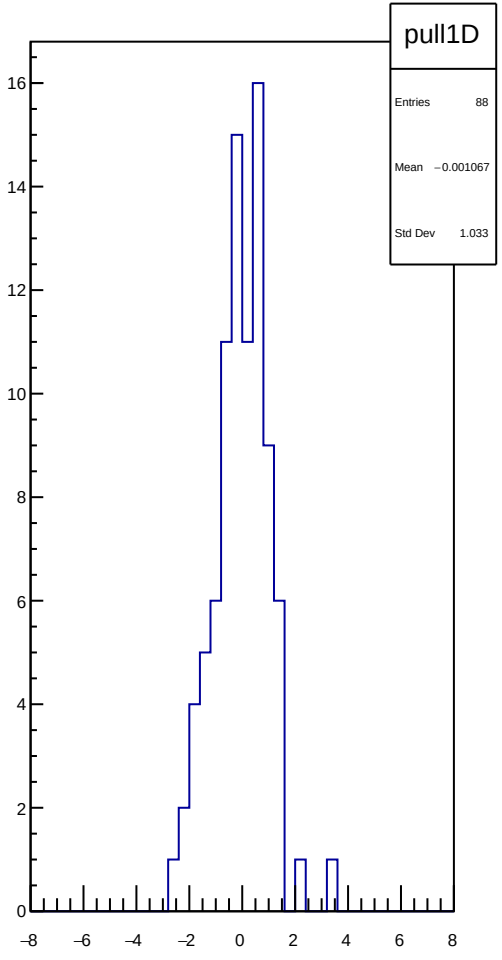

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.43 / 87
p0 4.851 ± 0.6866
pull
Entries 88
Mean −341.1
Std Dev 0

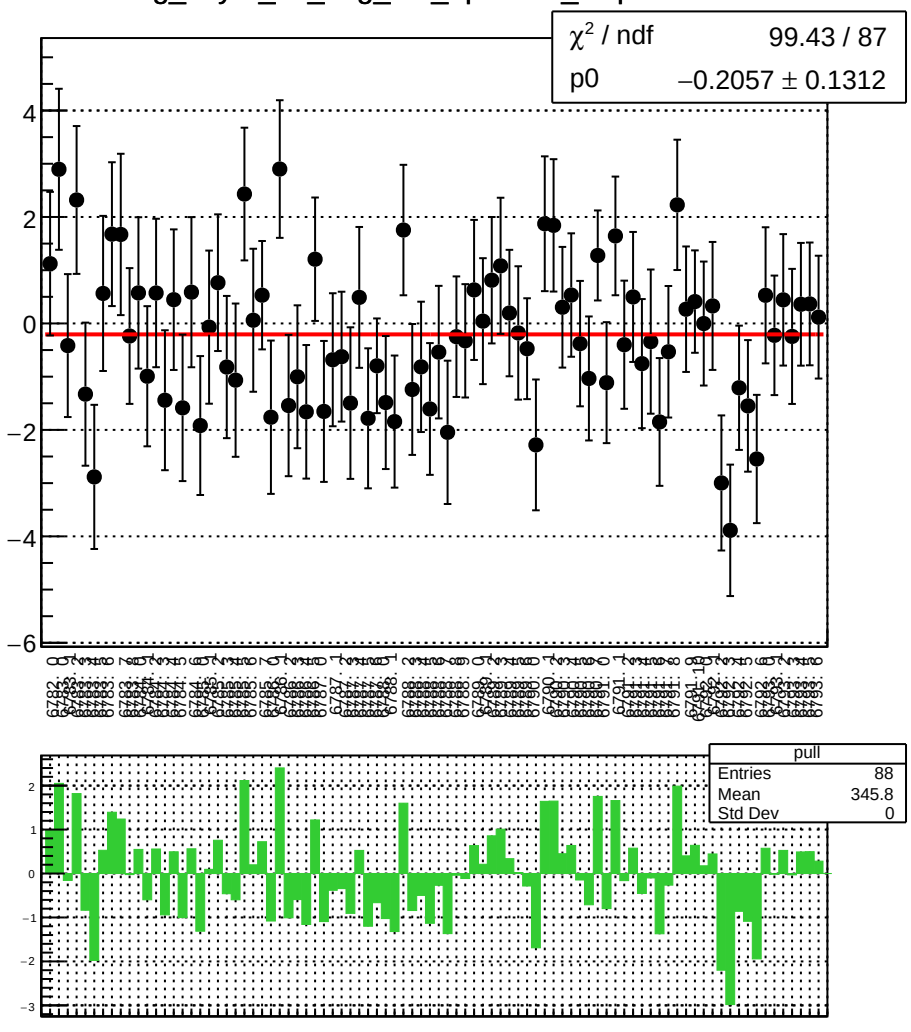

pull1D
Entries 88
Mean 0.007344
Std Dev 0.9319

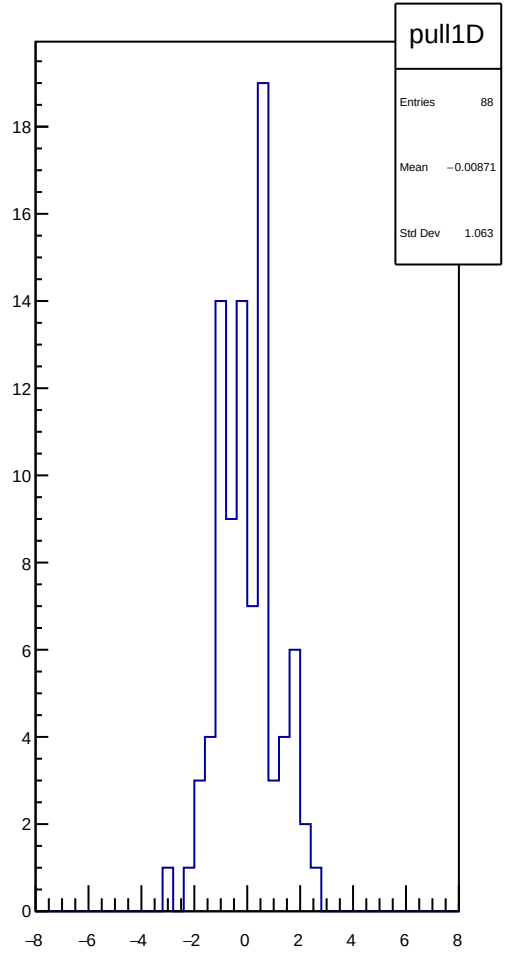

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 69.62 / 87
p0 −0.6294 ± 0.04505
pull
Entries 88
Mean 668.3
Std Dev 0

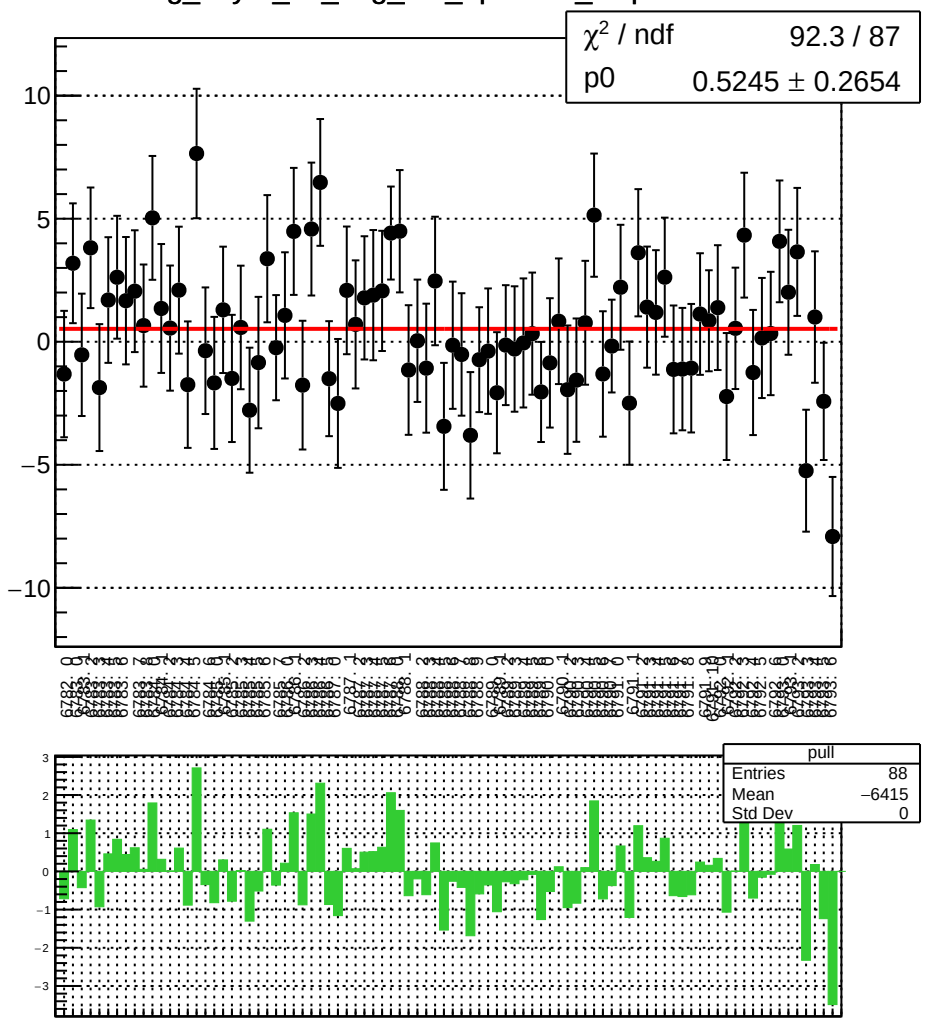

pull1D
Entries 88
Mean 0.002559
Std Dev 0.8894

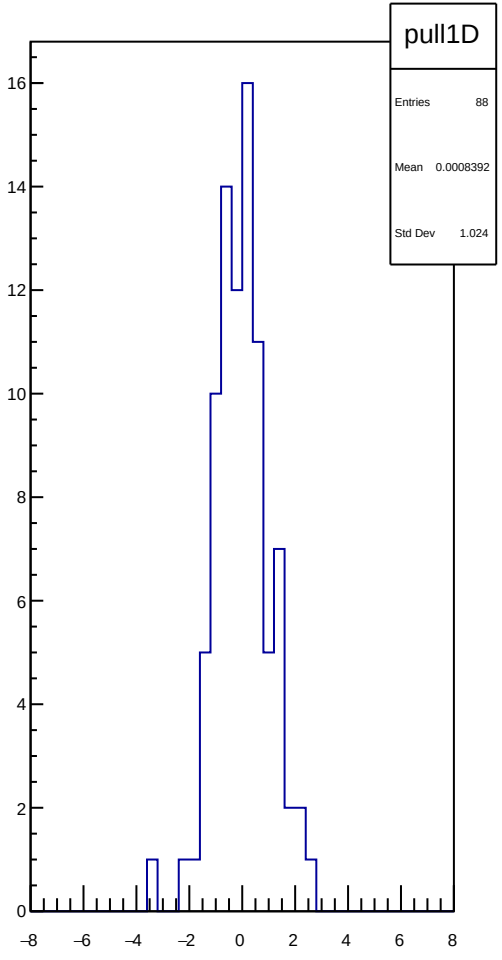

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 93.91 / 87
p0 −0.5615 ± 0.2846
pull
Entries 88
Mean −5289
Std Dev 0

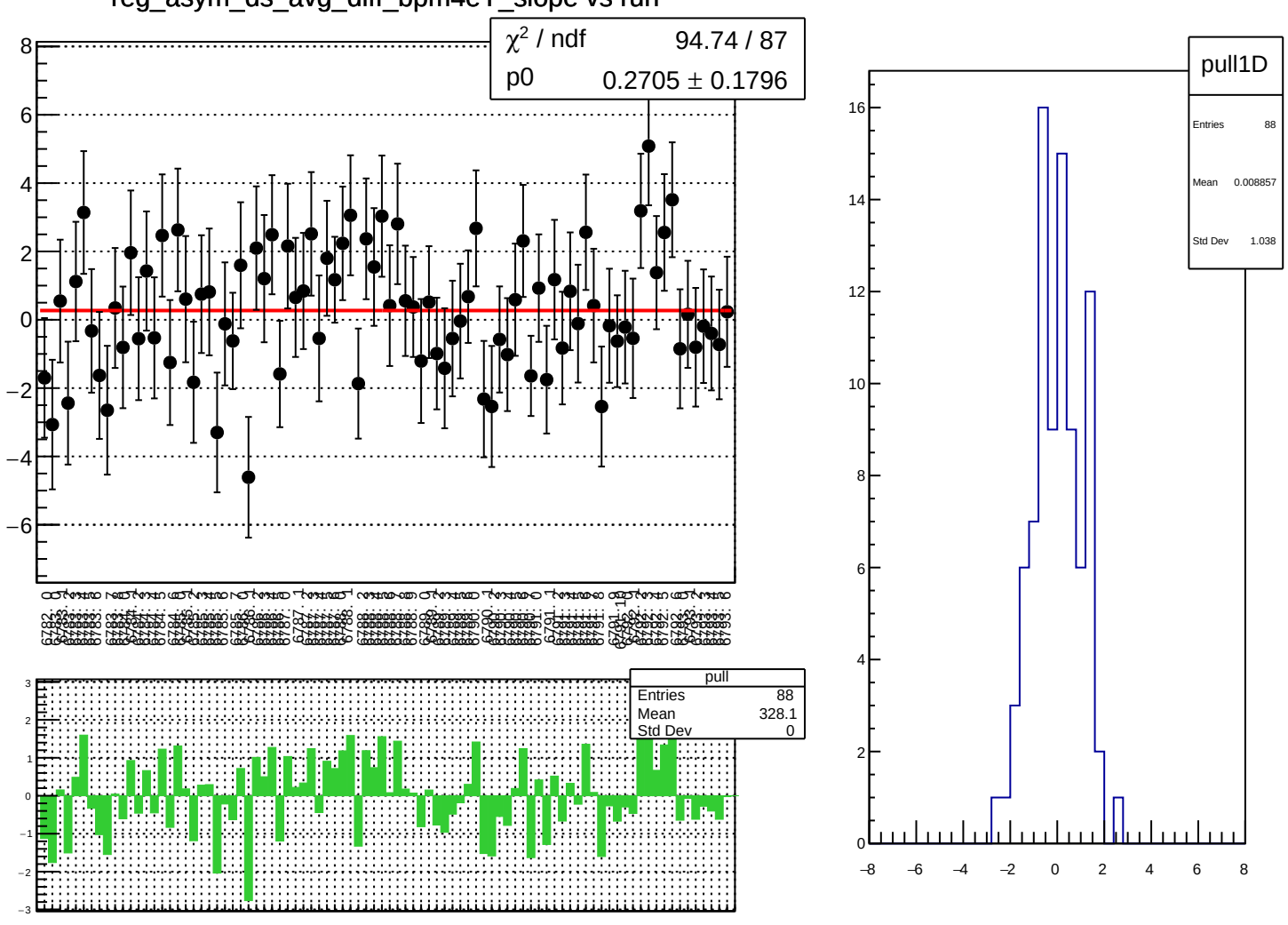

pull1D
Entries 88
Mean −0.001067
Std Dev 1.033

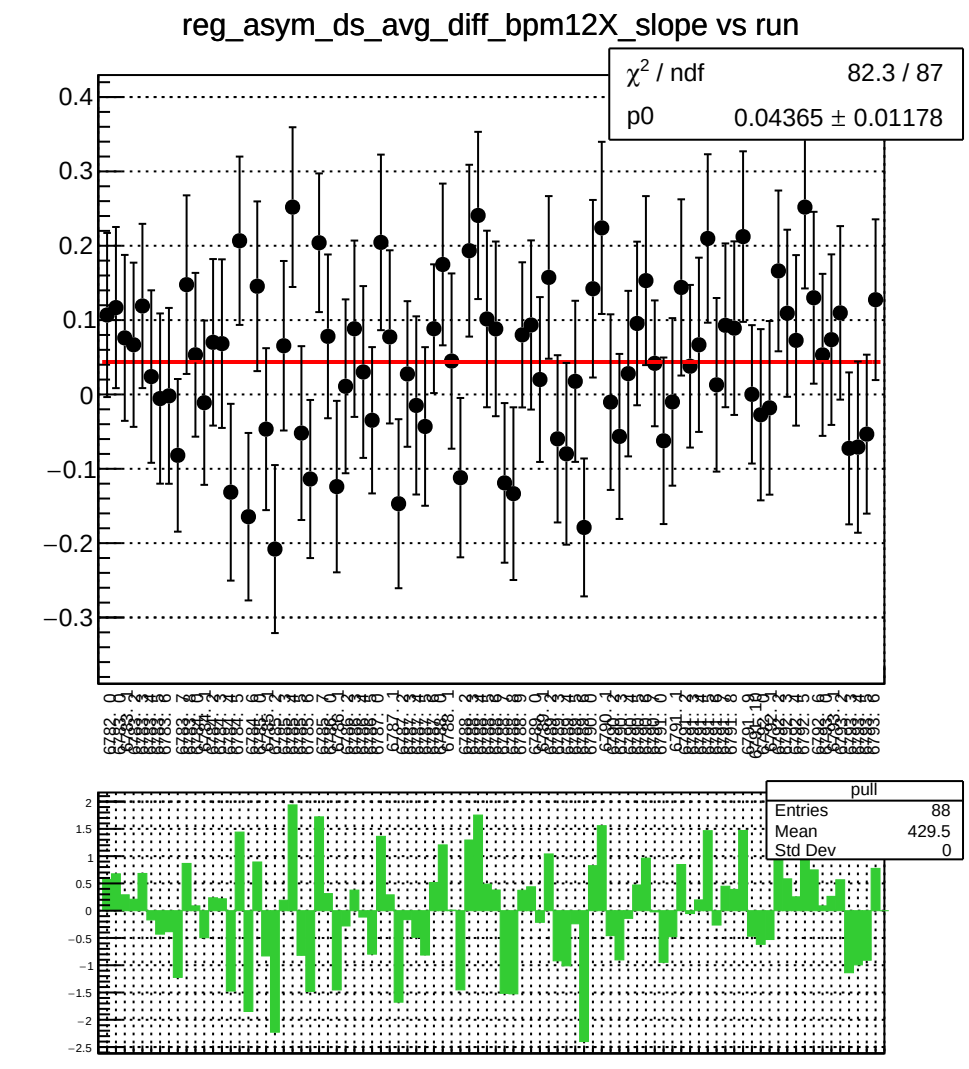

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 99.43 / 87
p0 −0.2057 ± 0.1312
pull
Entries 88
Mean 345.8
Std Dev 0

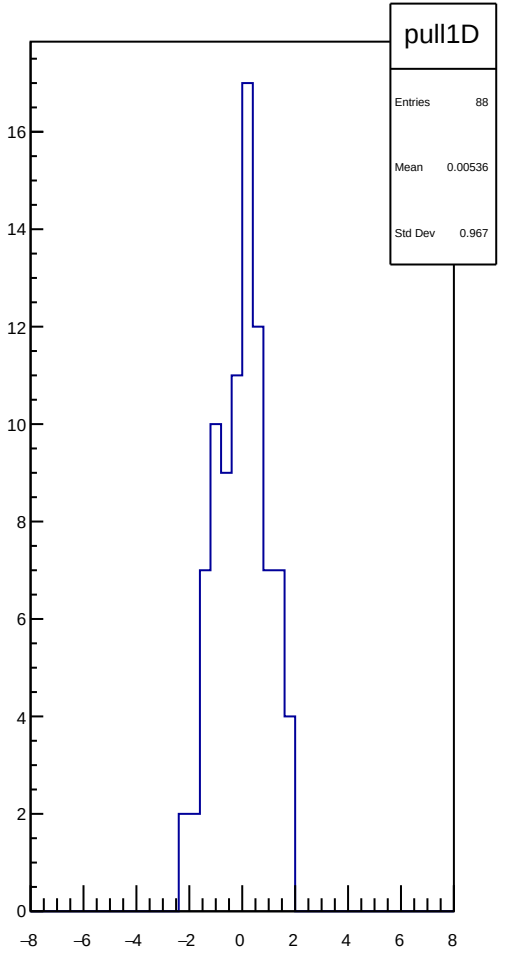

pull1D
Entries 88
Mean −0.00871
Std Dev 1.063

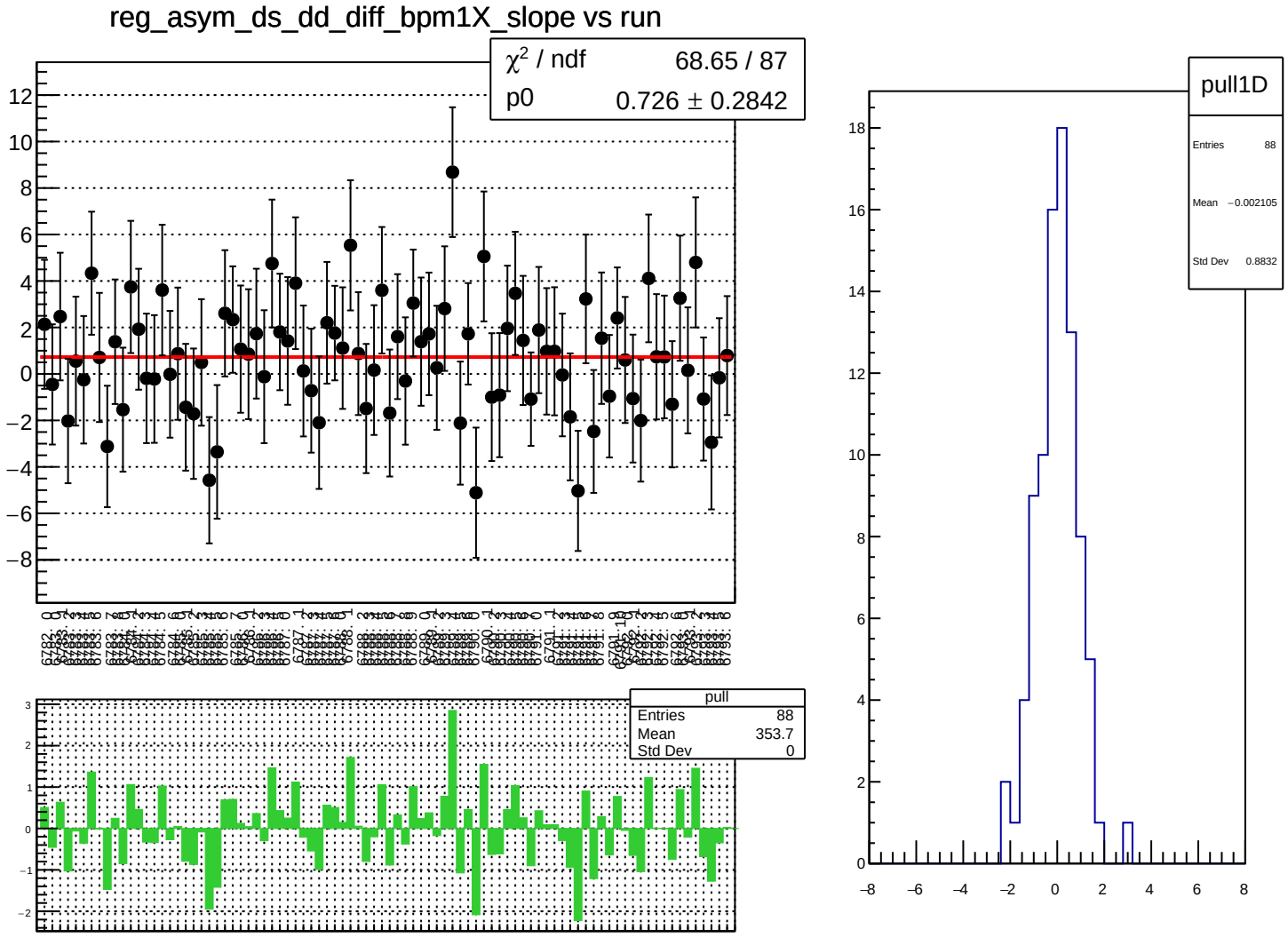

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.3 / 87
p0 0.5245 ± 0.2654
pull
Entries 88
Mean −6415
Std Dev 0

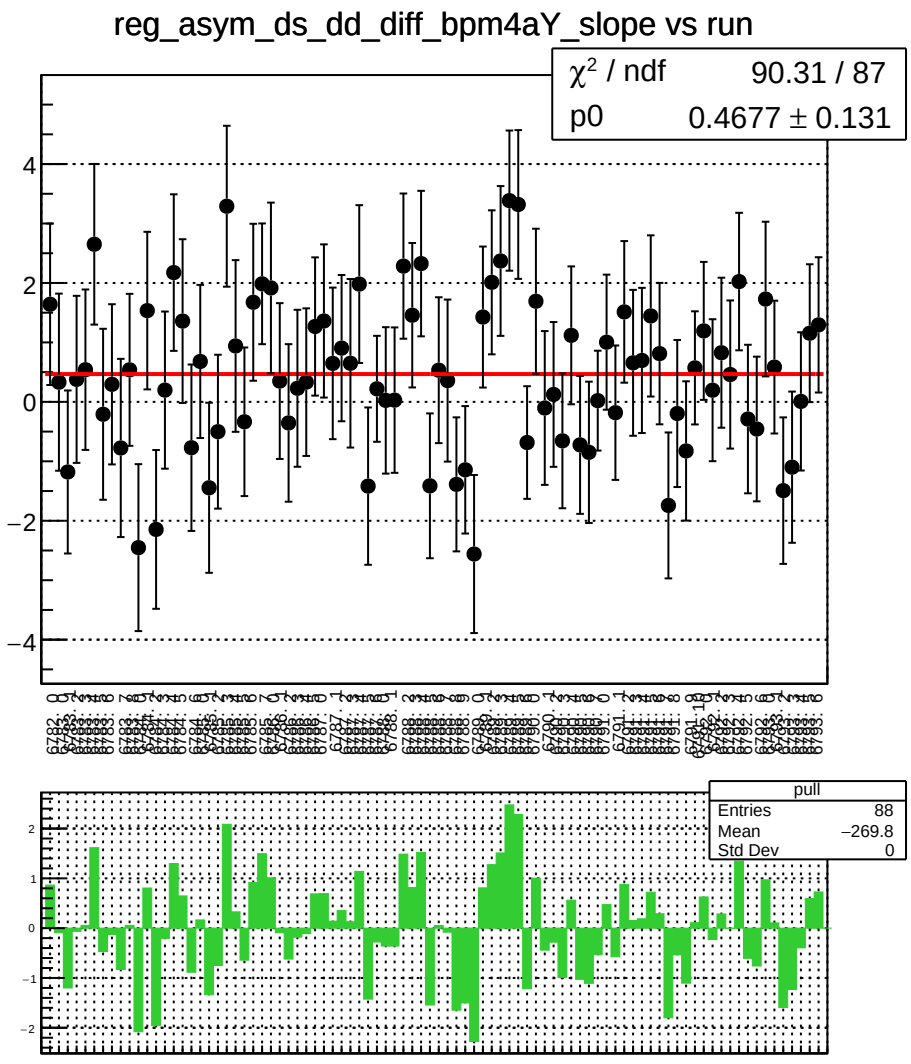

pull1D
Entries 88
Mean 0.0008392
Std Dev 1.024

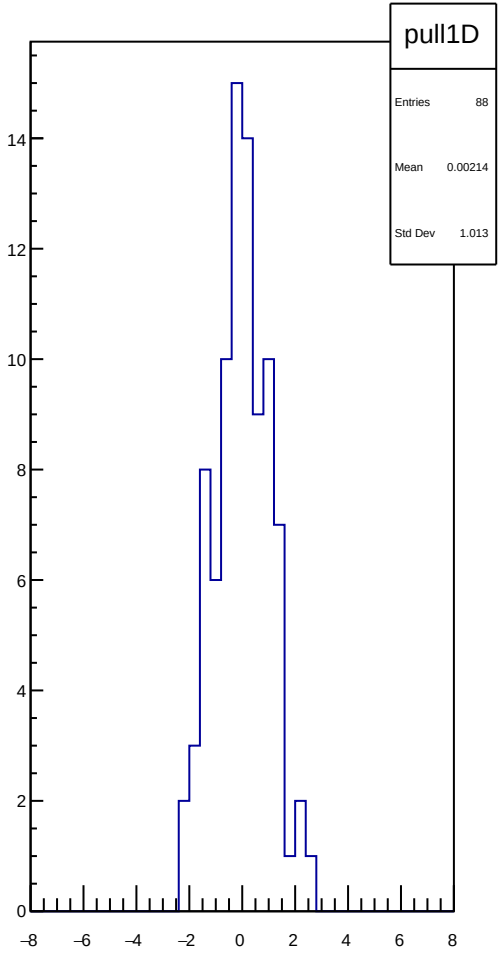

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 94.74 / 87
p0 0.2705 ± 0.1796
pull
Entries 88
Mean 328.1
Std Dev 0
pull1D
Entries 88
Mean 0.008857
Std Dev 1.038

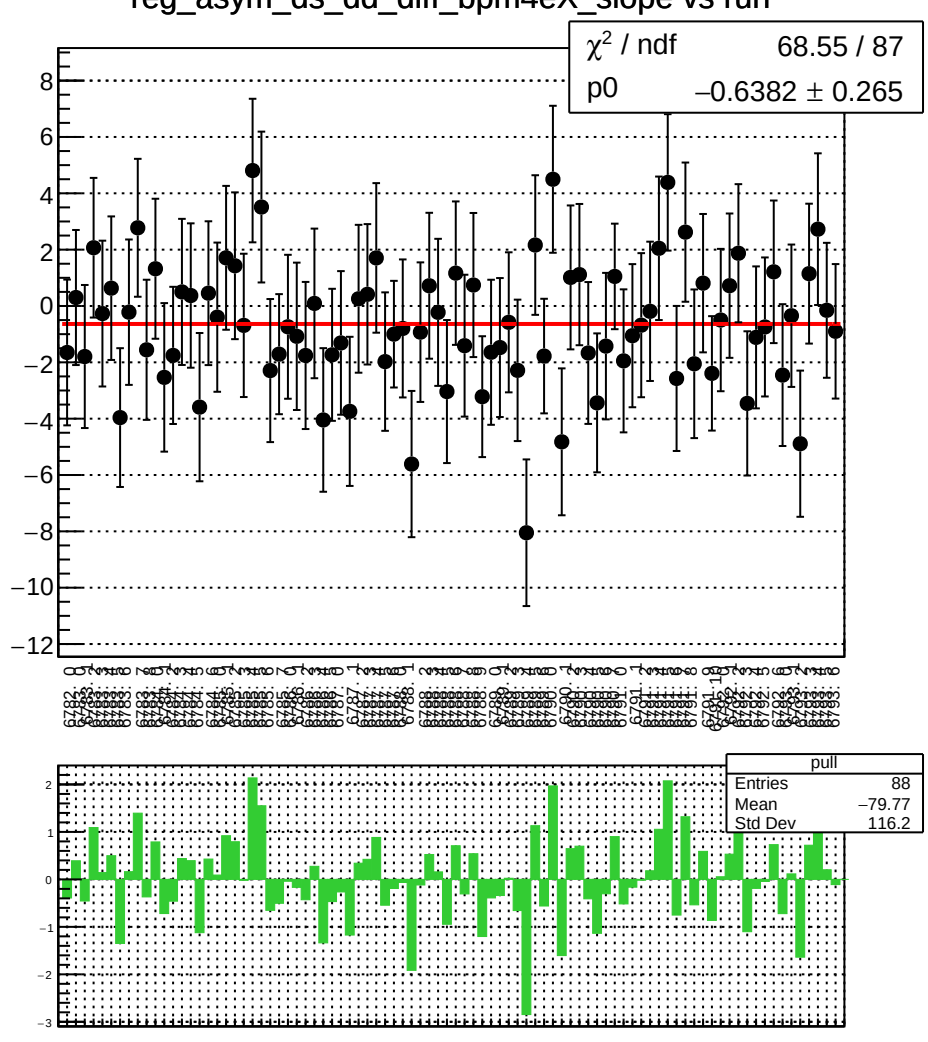

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 82.3 / 87
p0 0.04365 ± 0.01178
pull
Entries 88
Mean 429.5
Std Dev 0

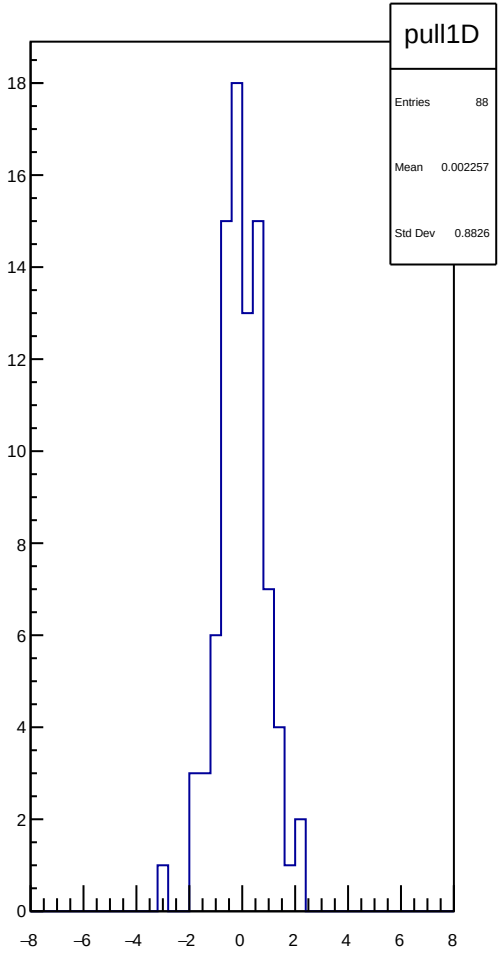

pull1D
Entries 88
Mean 0.00536
Std Dev 0.967

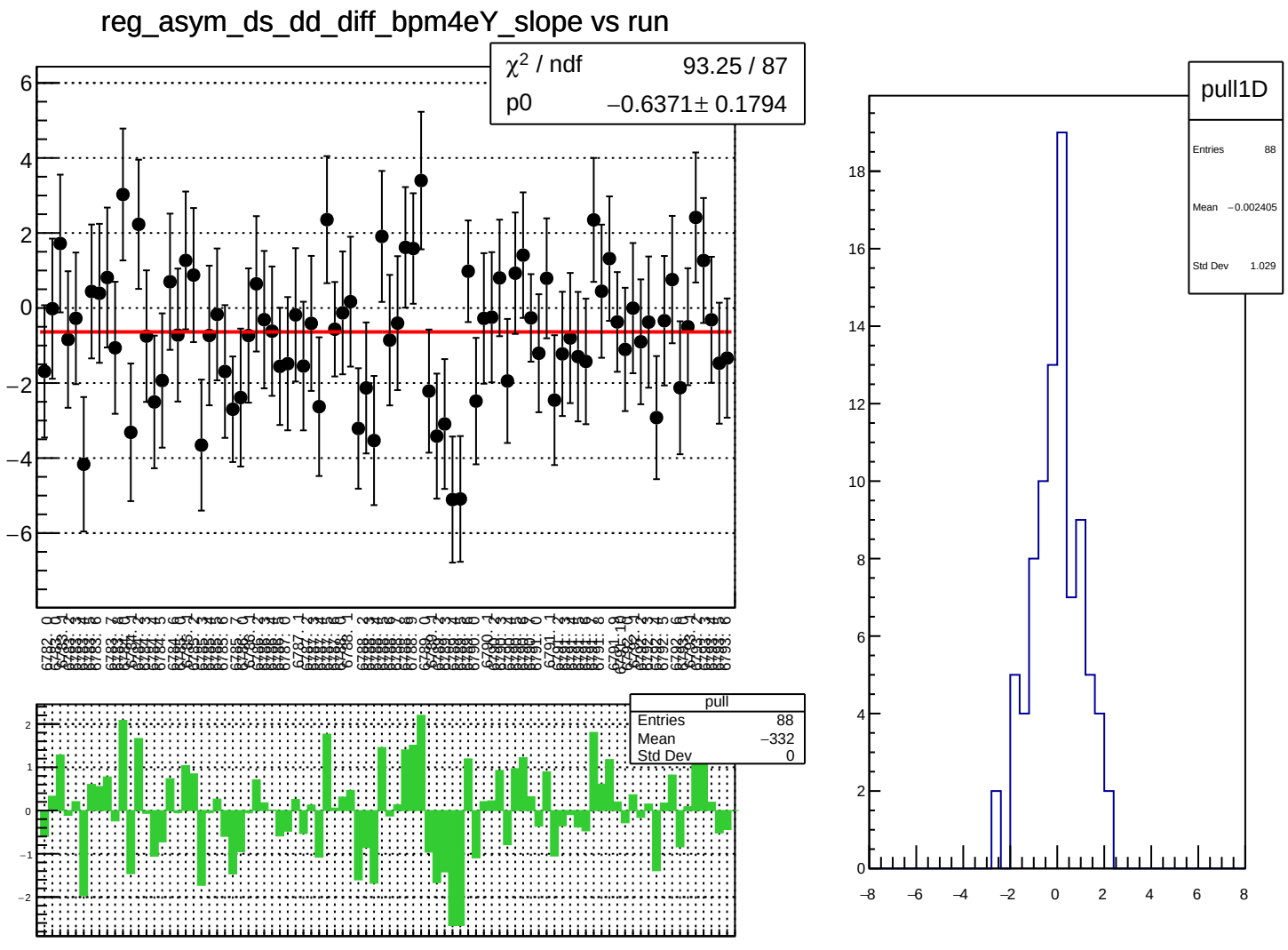

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 68.65 / 87
p0 0.726 ± 0.2842
pull
Entries 88
Mean 353.7
Std Dev 0
pull1D
Entries 88
Mean −0.002105
Std Dev 0.8832

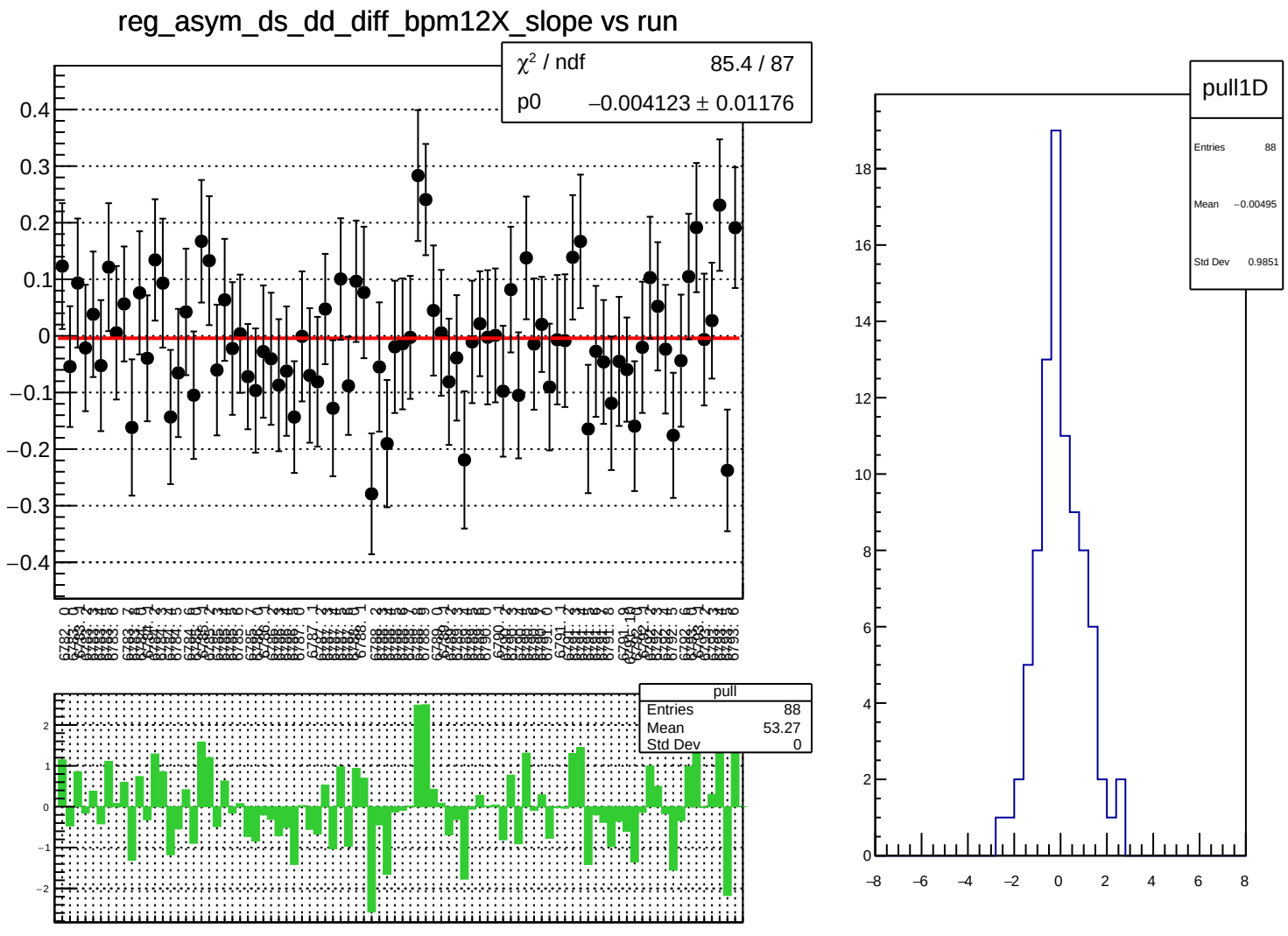

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.31 / 87
p0 0.4677 ± 0.131
pull
Entries 88
Mean −269.8
Std Dev 0

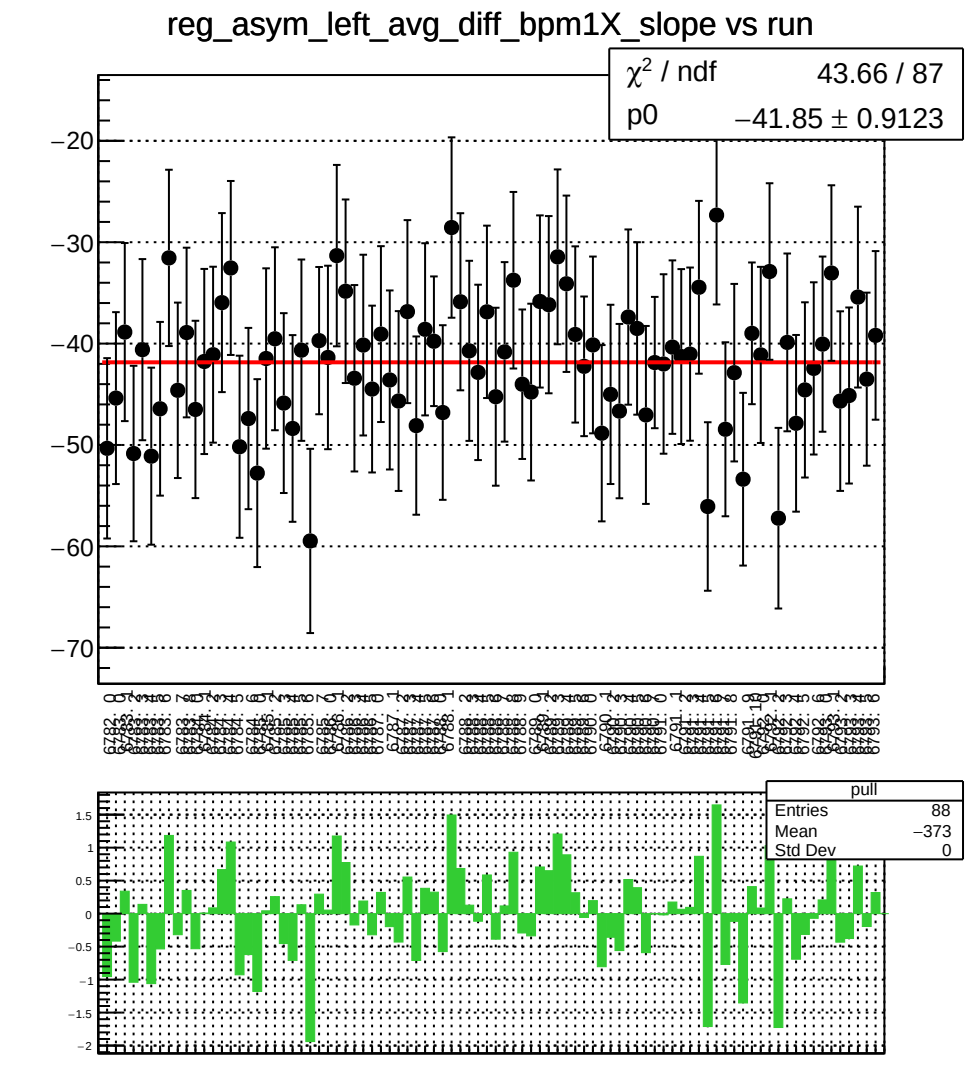

pull1D
Entries 88
Mean 0.00214
Std Dev 1.013

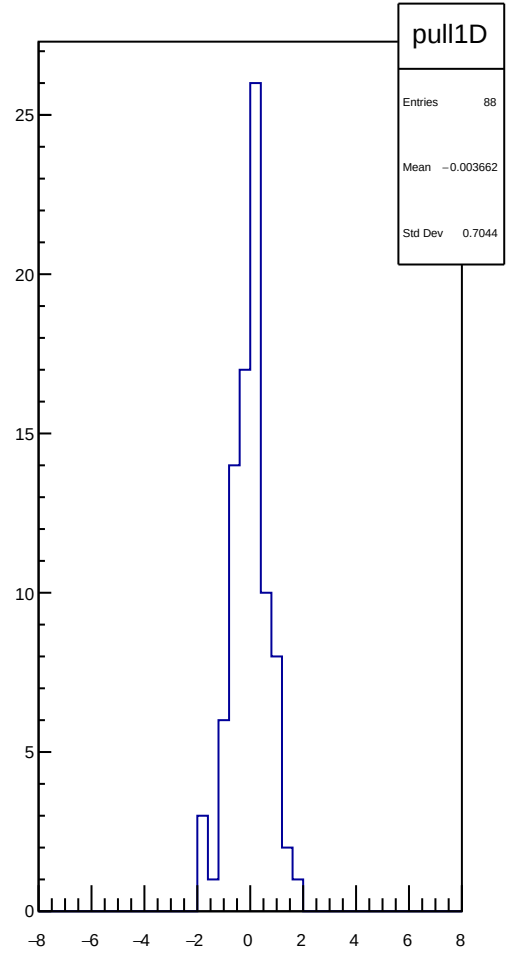

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.55 / 87
p0 −0.6382 ± 0.265
pull
Entries 88
Mean −79.77
Std Dev 116.2

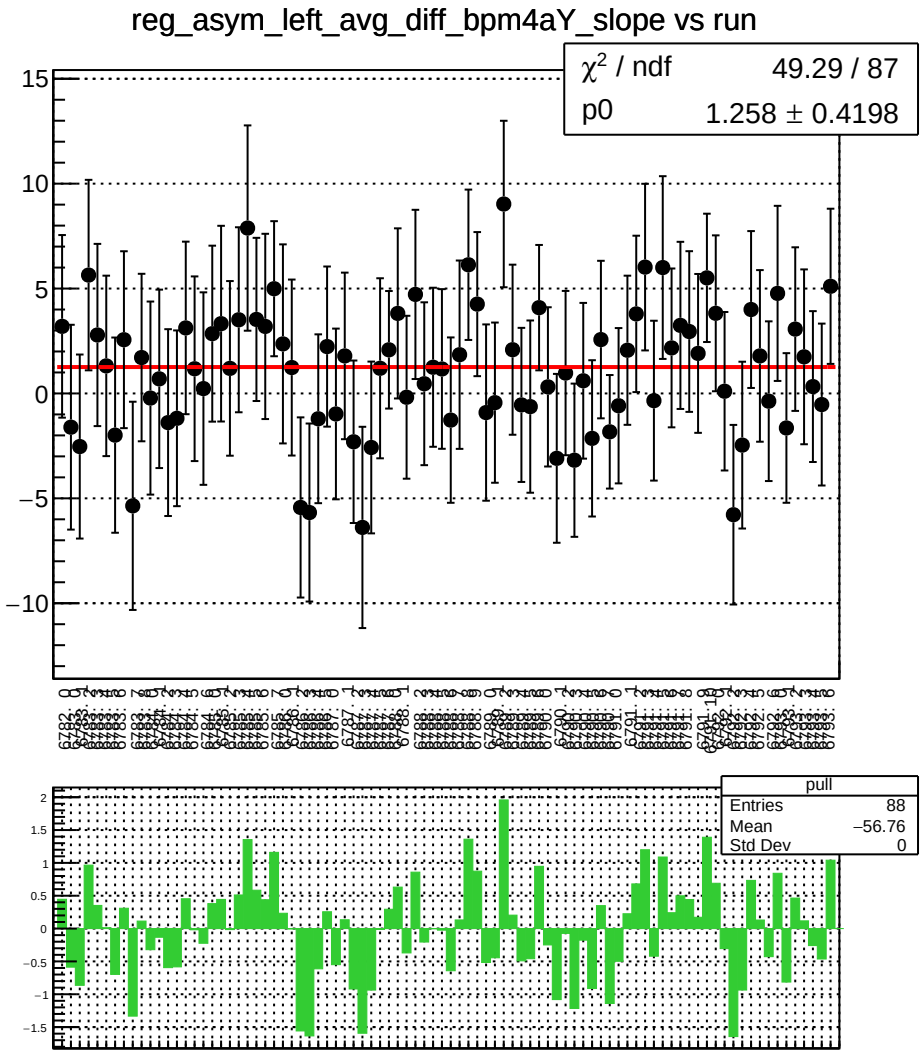

pull1D
Entries 88
Mean 0.002257
Std Dev 0.8826

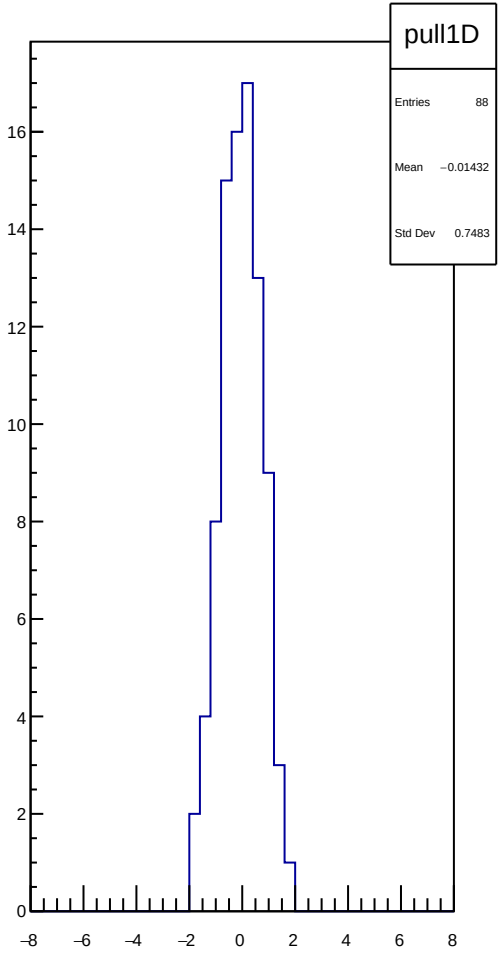

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.25 / 87
p0 −0.6371± 0.1794
pull
Entries 88
Mean −332
Std Dev 0
pull1D
Entries 88
Mean −0.002405
Std Dev 1.029

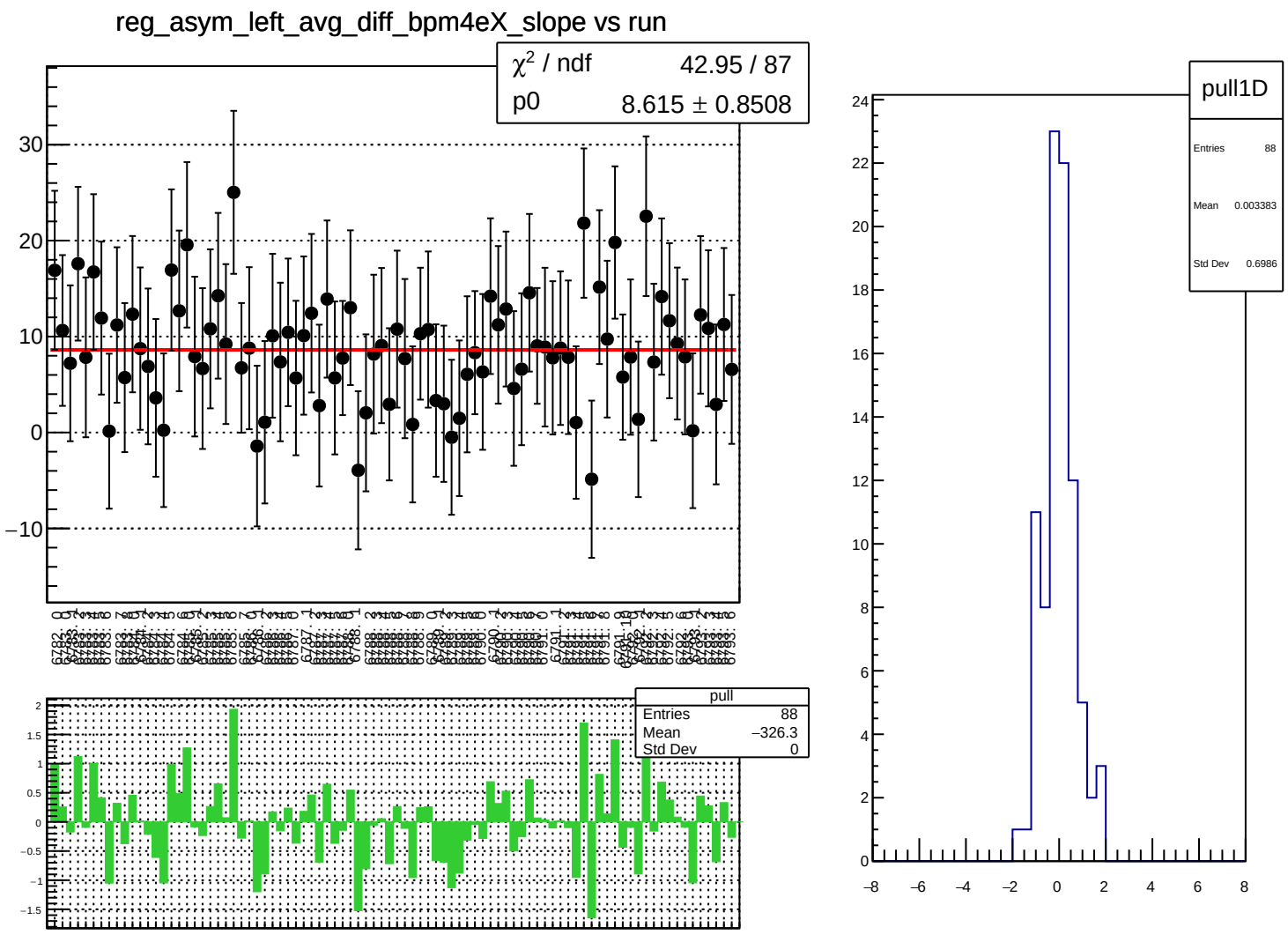

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 85.4 / 87
p0 −0.004123 ± 0.01176
pull
Entries 88
Mean 53.27
Std Dev 0
pull1D
Entries 88
Mean −0.00495
Std Dev 0.9851

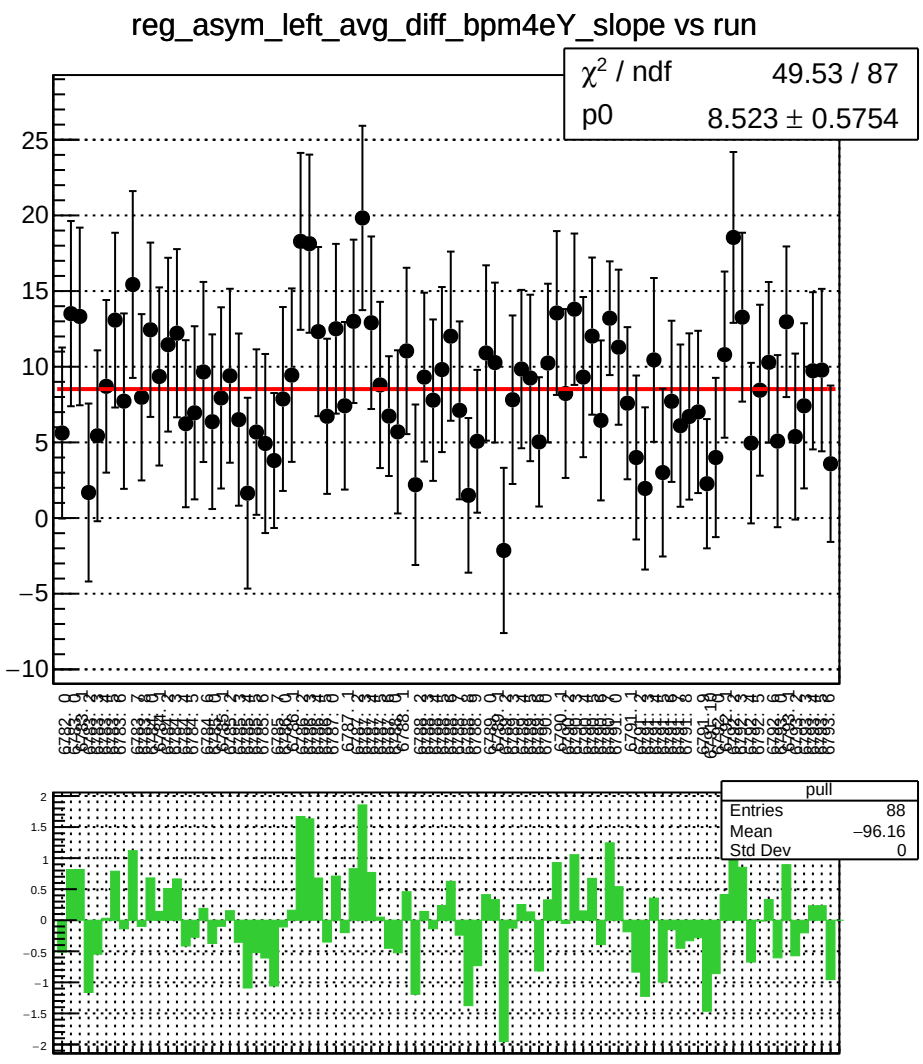

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 43.66 / 87
p0 −41.85 ± 0.9123
pull
Entries 88
Mean −373
Std Dev 0

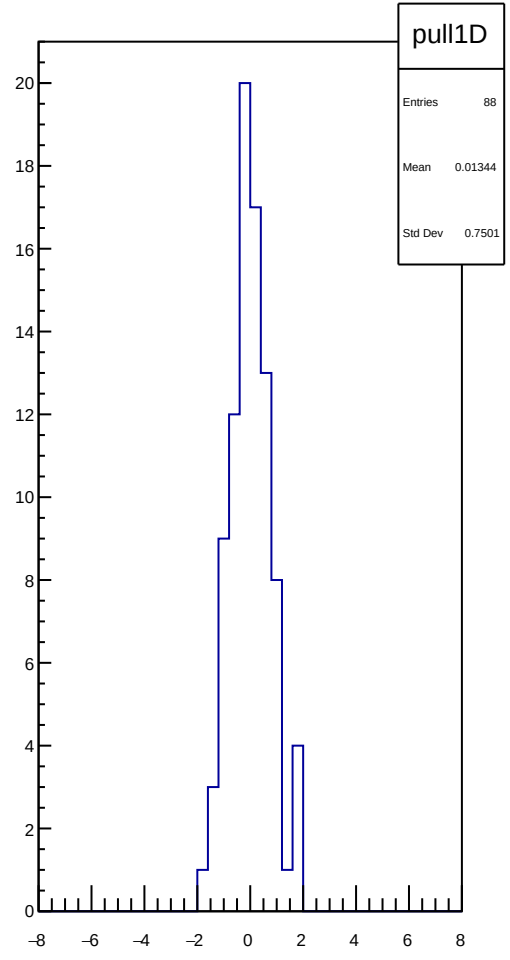

pull1D
Entries 88
Mean −0.003662
Std Dev 0.7044

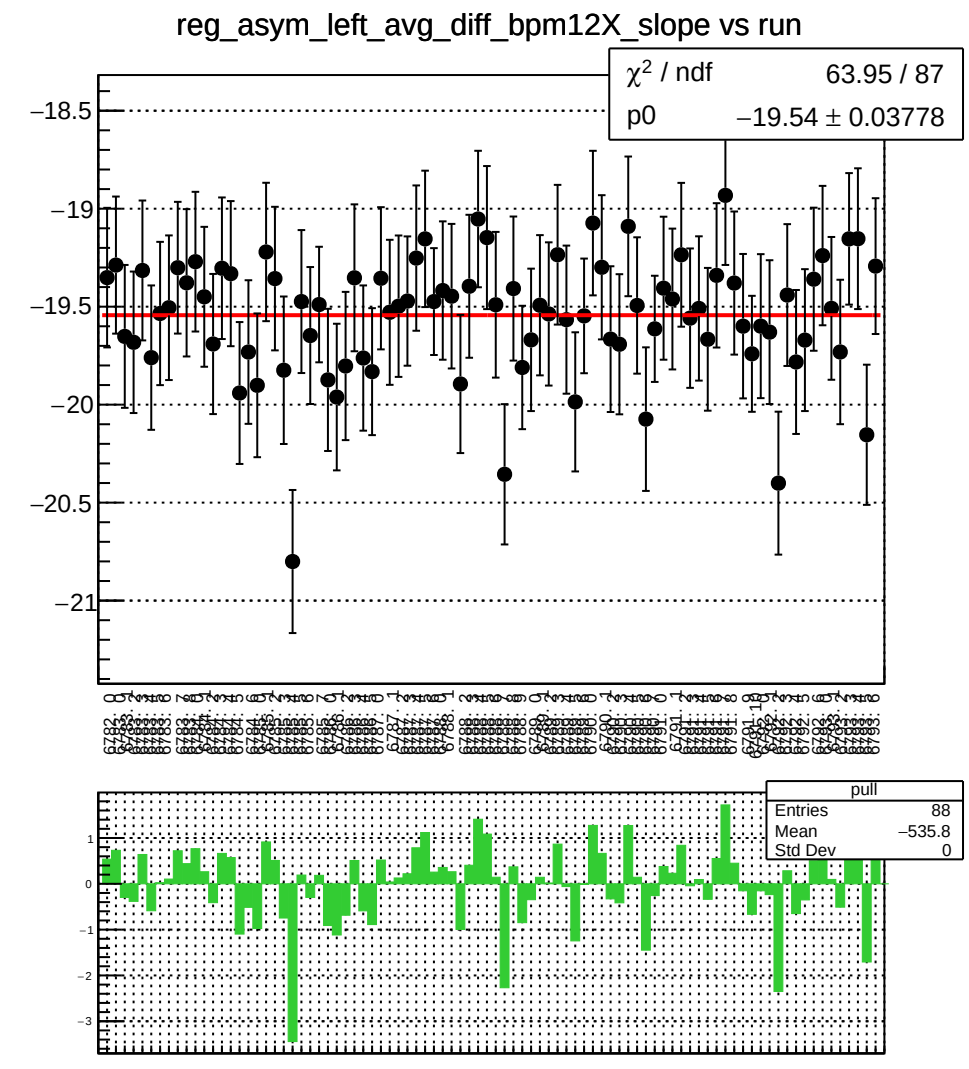

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.29 / 87
p0 1.258 ± 0.4198
pull
Entries 88
Mean −56.76
Std Dev 0

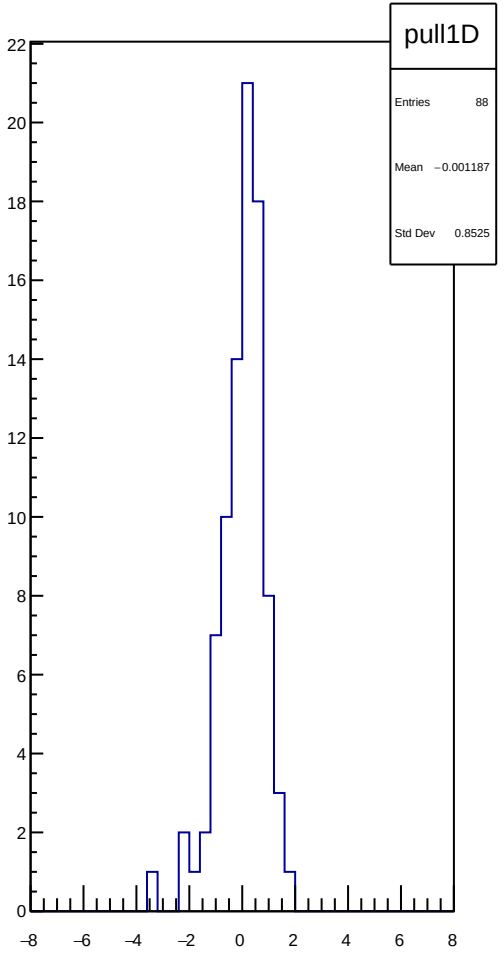

pull1D
Entries 88
Mean −0.01432
Std Dev 0.7483

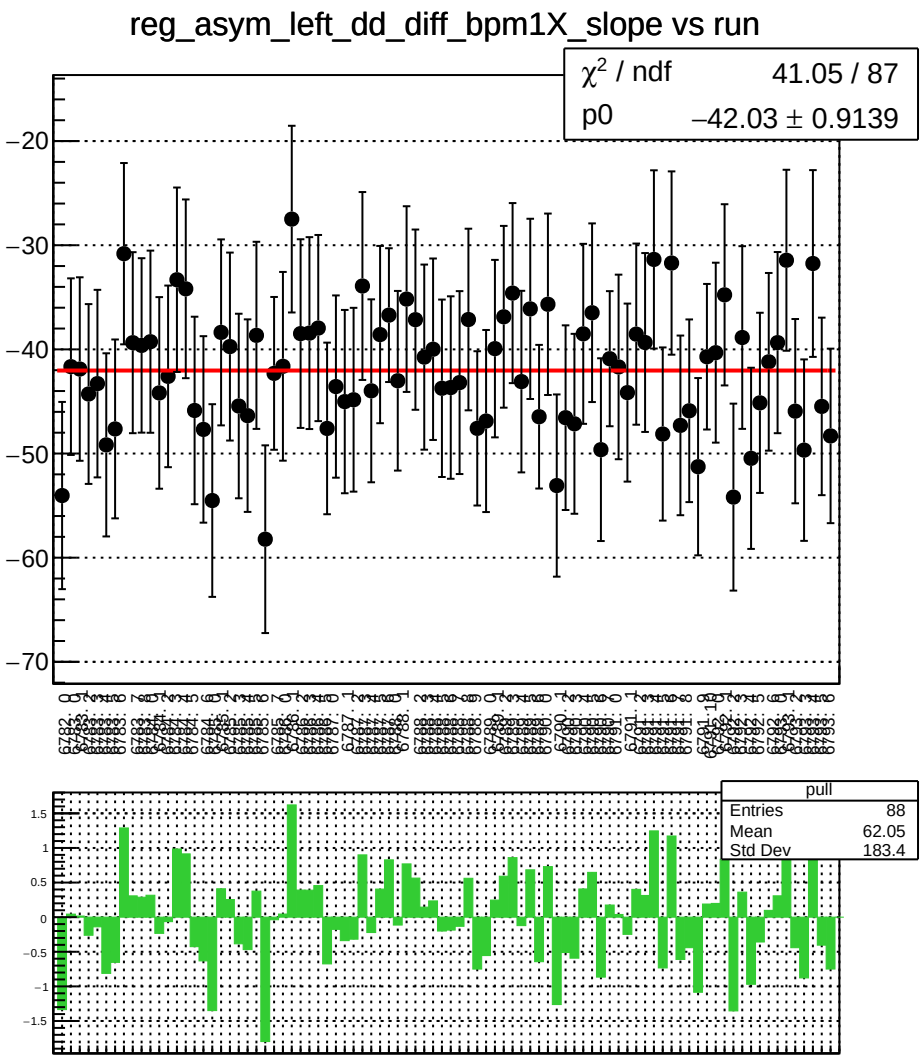

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.95 / 87
p0 8.615 ± 0.8508
pull
Entries 88
Mean −326.3
Std Dev 0
pull1D
Entries 88
Mean 0.003383
Std Dev 0.6986

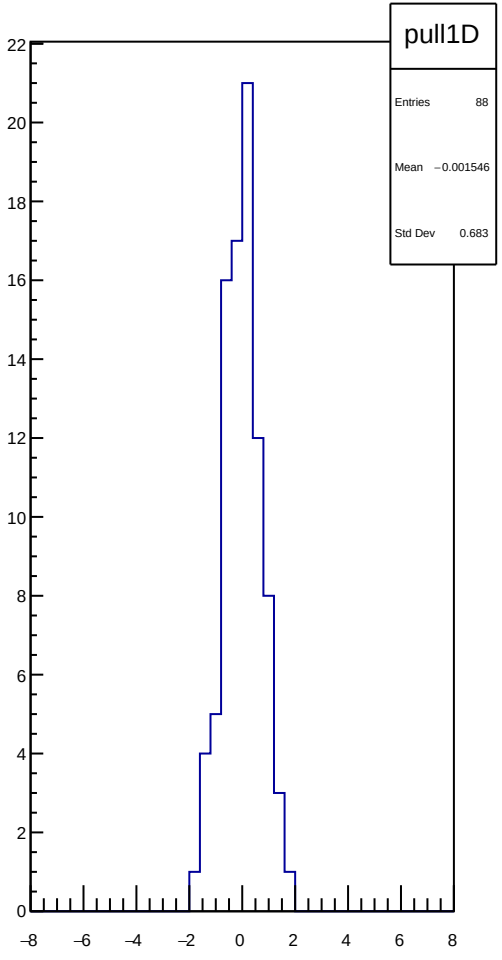

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.53 / 87
p0 8.523 ± 0.5754
pull
Entries 88
Mean −96.16
Std Dev 0

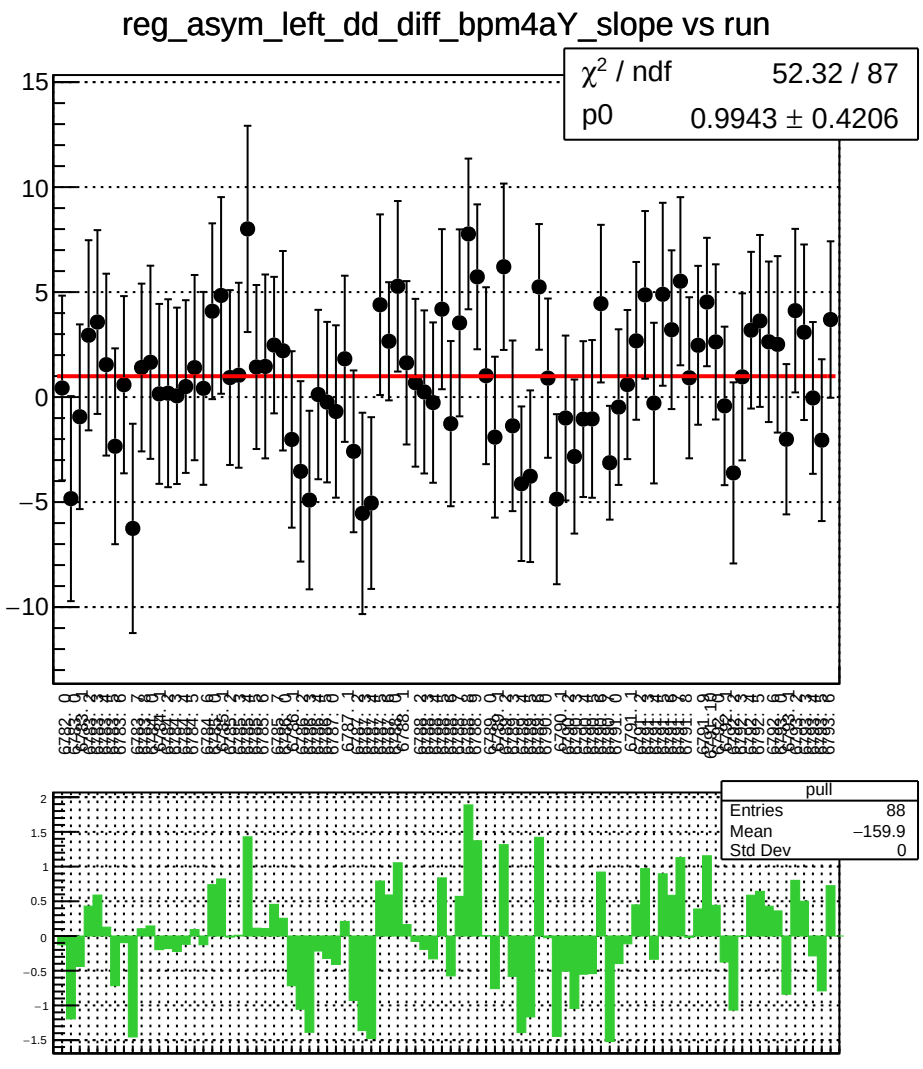

pull1D
Entries 88
Mean 0.01344
Std Dev 0.7501

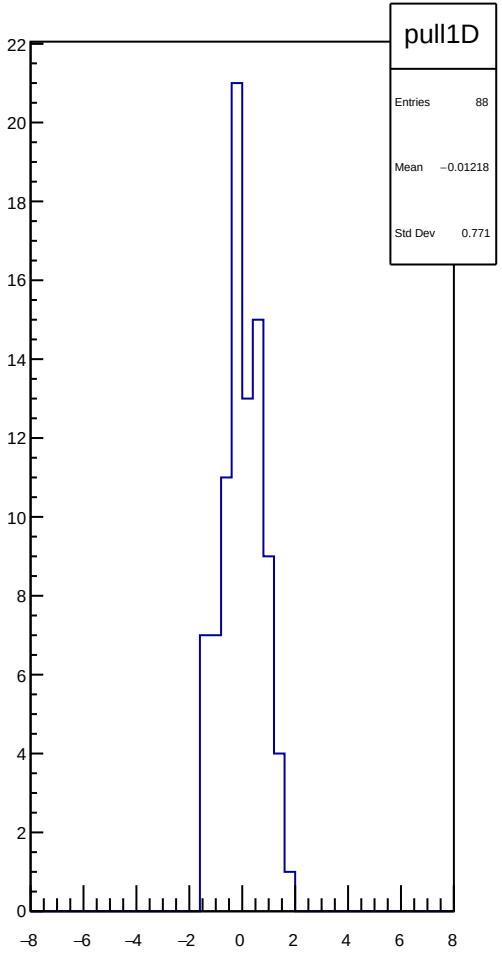

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 63.95 / 87
p0 −19.54 ± 0.03778
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 88
Mean −535.8
Std Dev 0

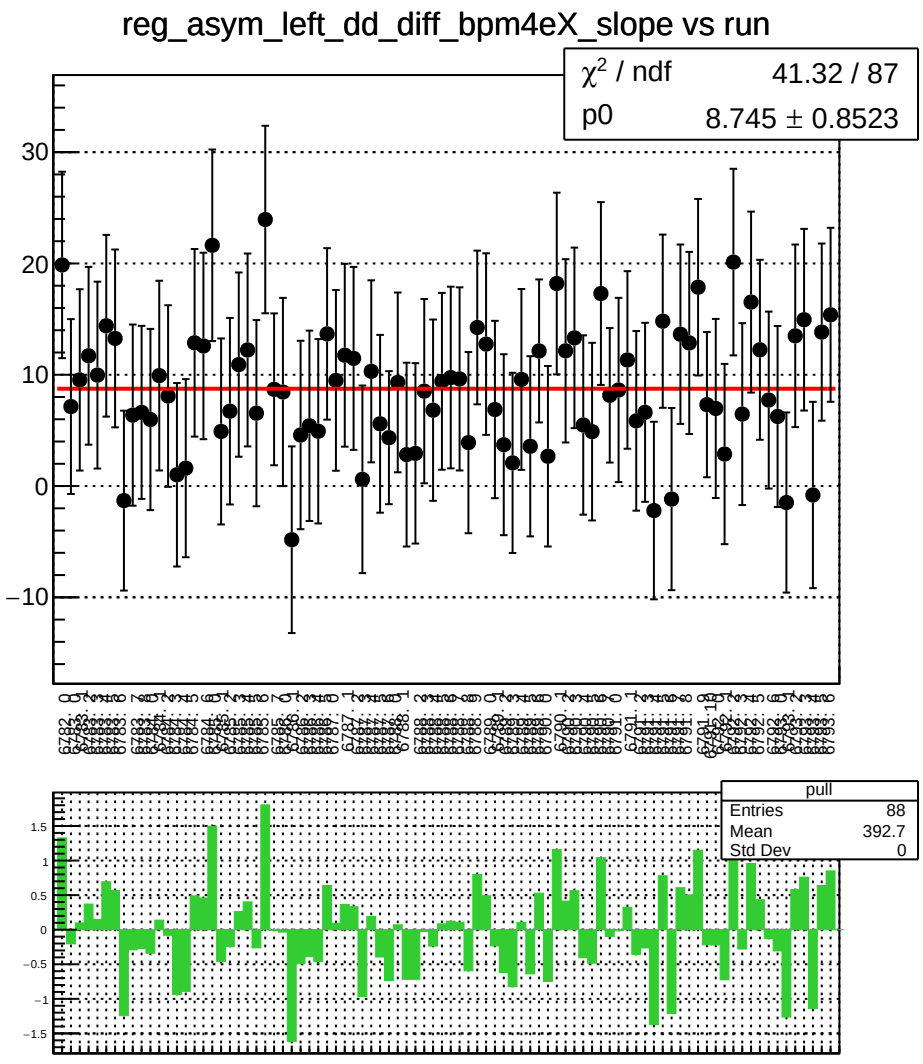

pull1D
Entries 88
Mean −0.001187
Std Dev 0.8525

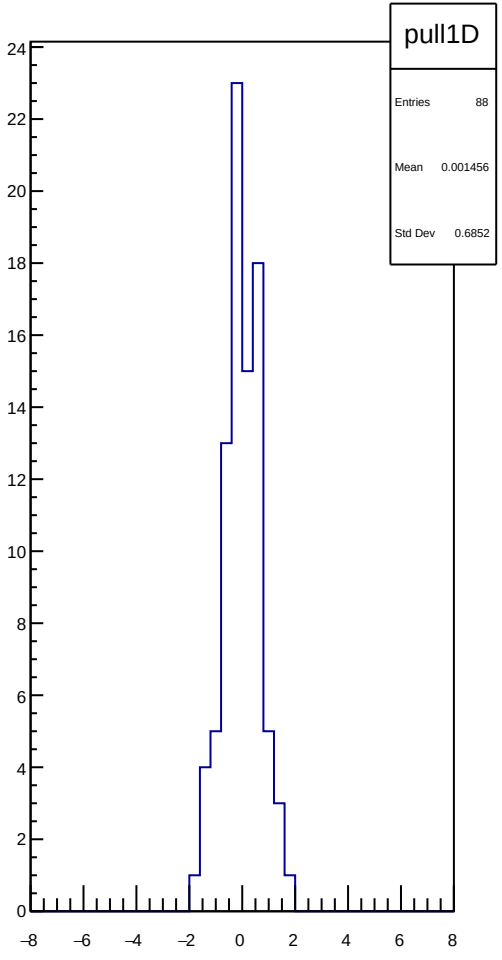

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 41.05 / 87
p0 −42.03 ± 0.9139
pull
Entries 88
Mean 62.05
Std Dev 183.4

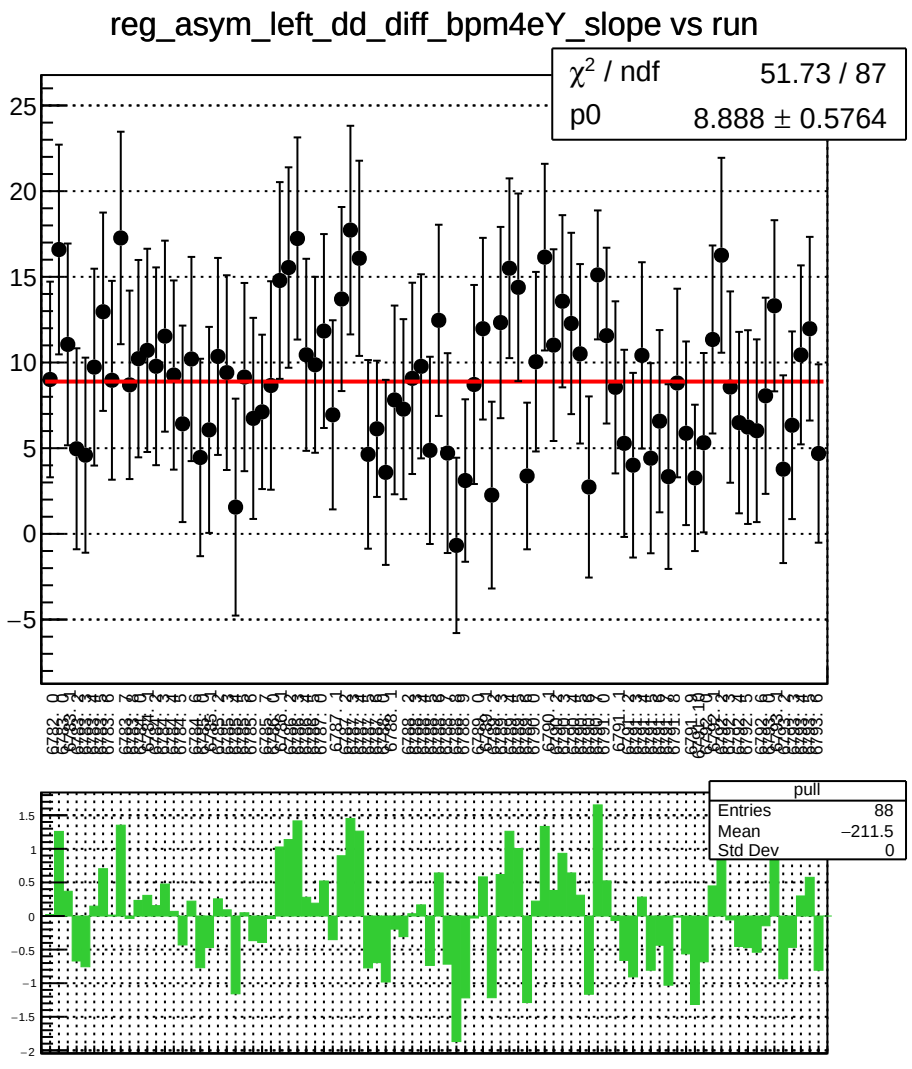

pull1D
Entries 88
Mean −0.001546
Std Dev 0.683

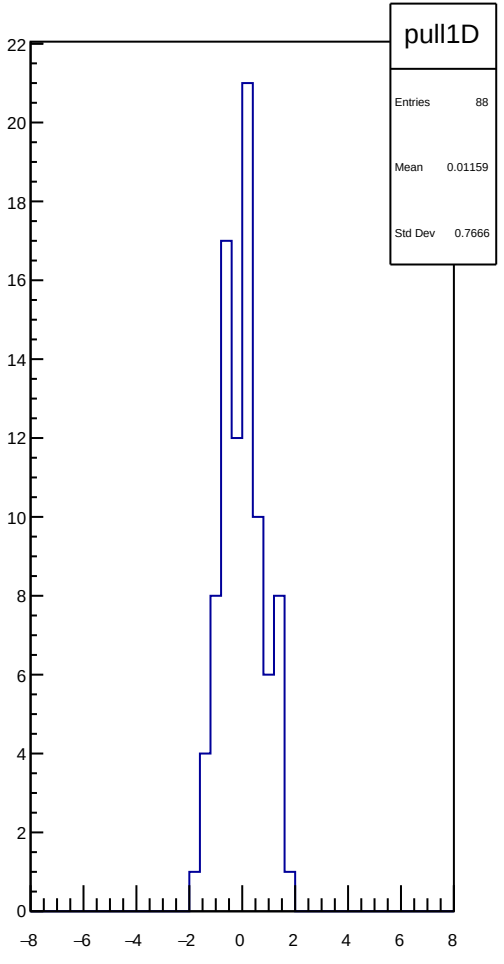

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.32 / 87
p0 0.9943 ± 0.4206
pull
Entries 88
Mean −159.9
Std Dev 0

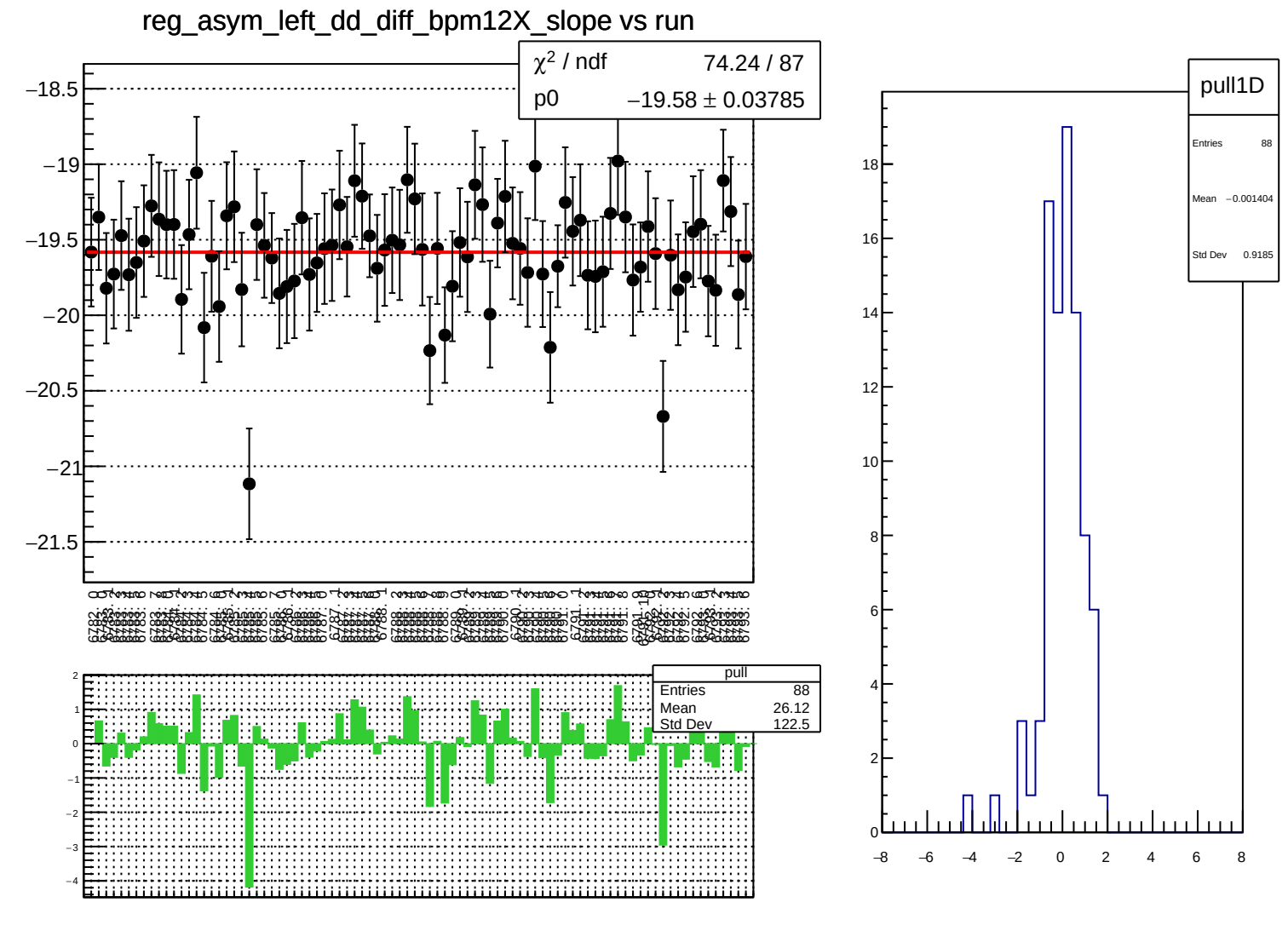

pull1D
Entries 88
Mean −0.01218
Std Dev 0.771

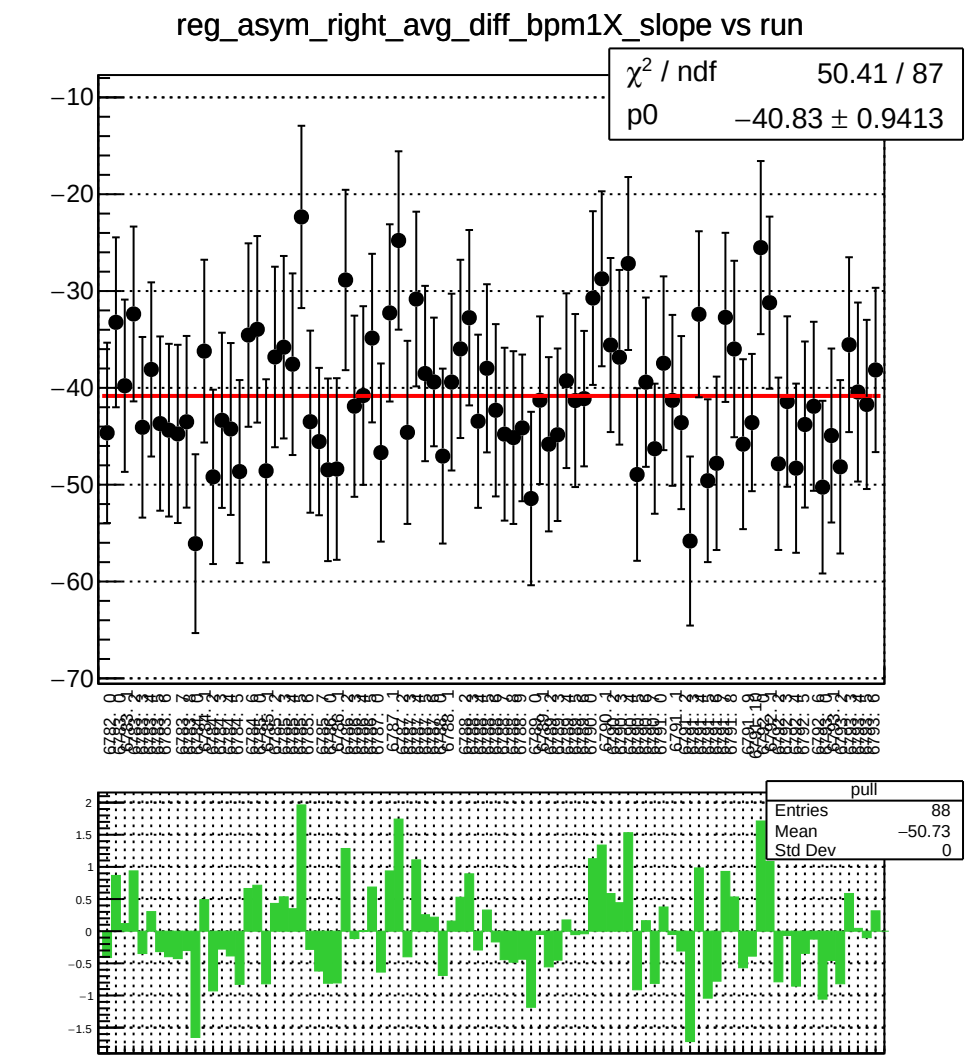

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.32 / 87
p0 8.745 ± 0.8523
pull
Entries 88
Mean 392.7
Std Dev 0

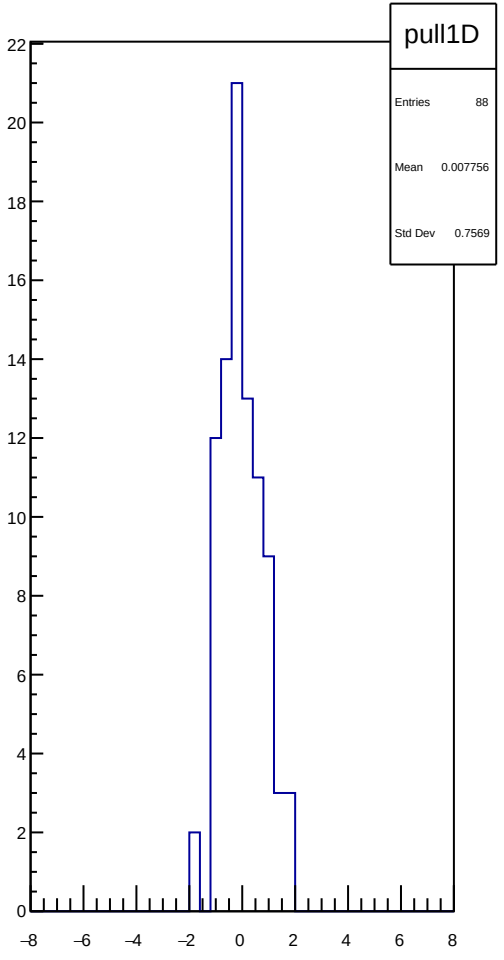

pull1D
Entries 88
Mean 0.001456
Std Dev 0.6852

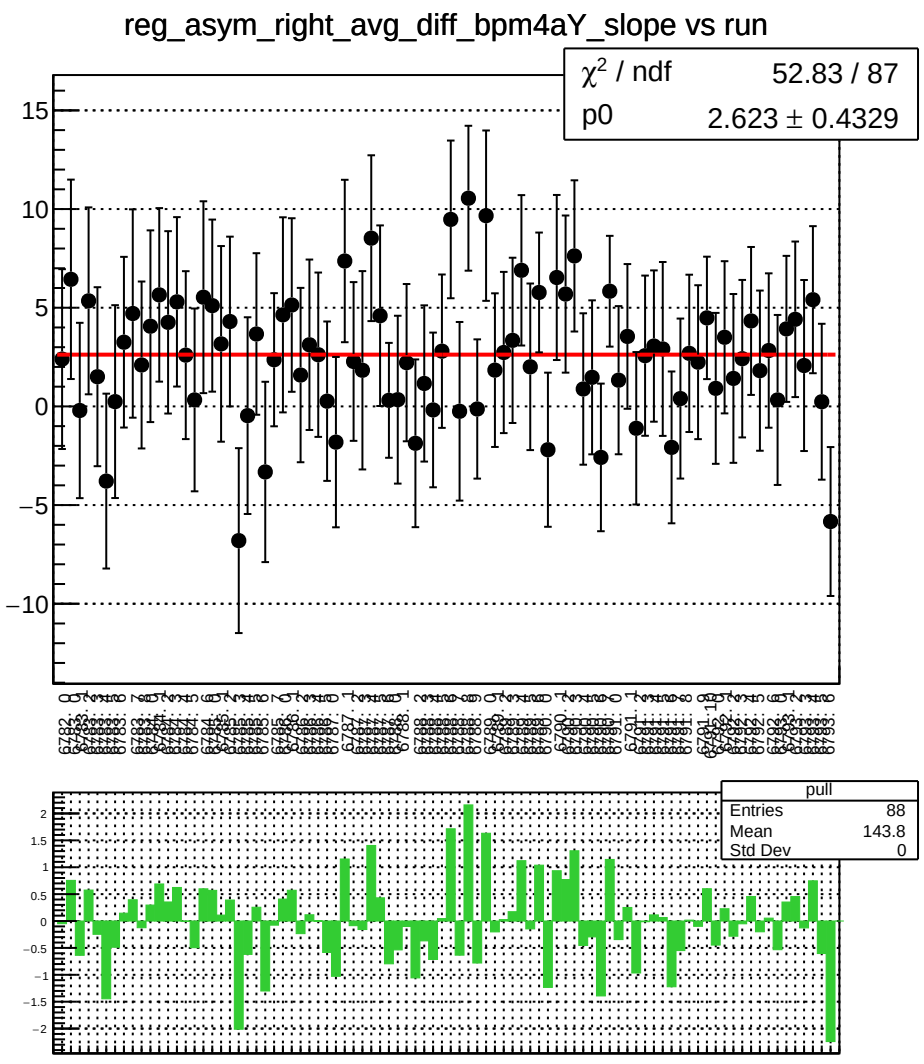

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.73 / 87
p0 8.888 ± 0.5764
pull
Entries 88
Mean −211.5
Std Dev 0

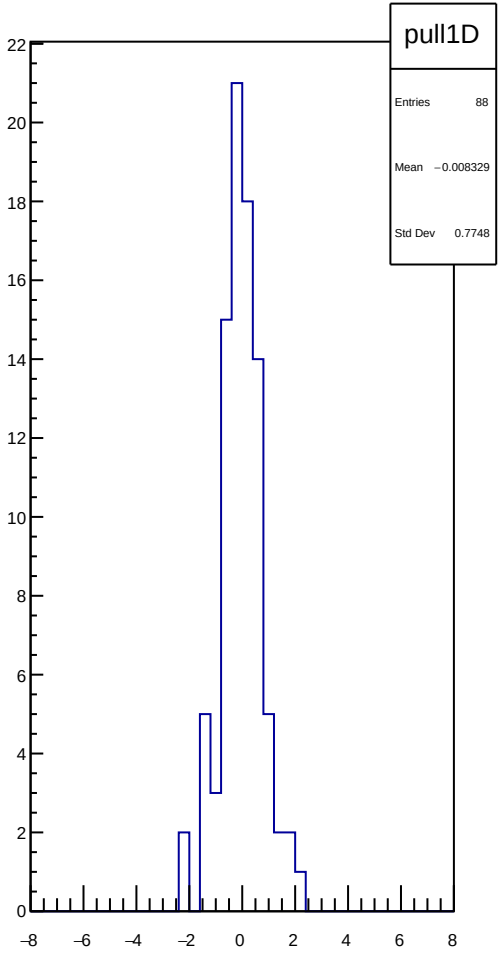

pull1D
Entries 88
Mean 0.01159
Std Dev 0.7666

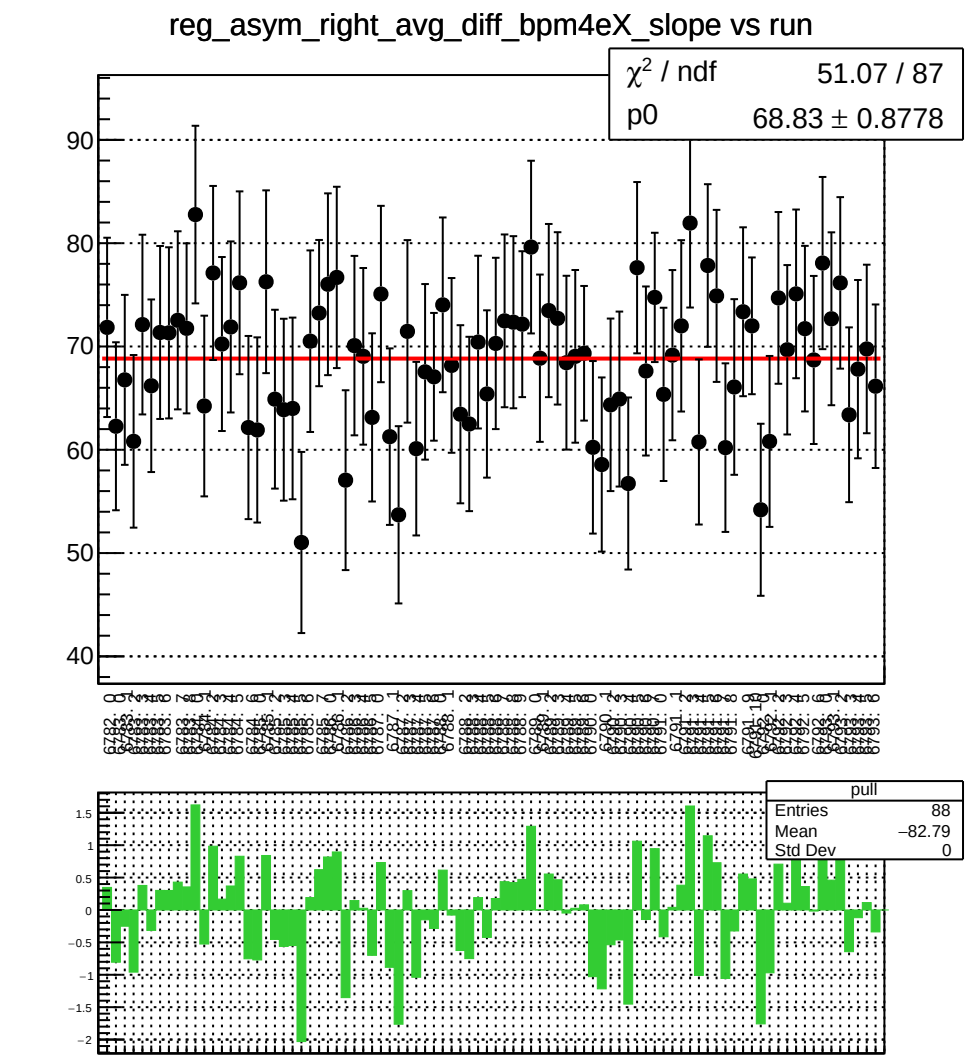

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 74.24 / 87
p0 −19.58 ± 0.03785
pull
Entries 88
Mean 26.12
Std Dev 122.5
pull1D
Entries 88
Mean −0.001404
Std Dev 0.9185

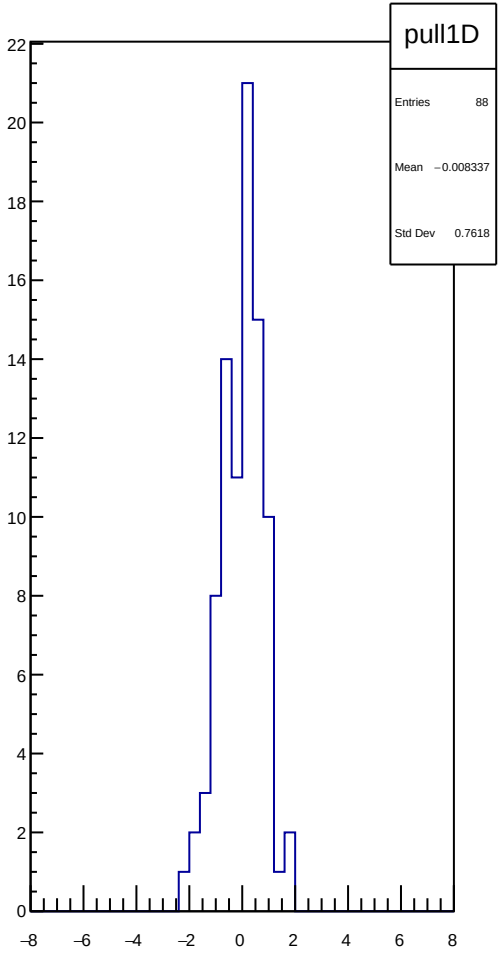

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 50.41 / 87
p0 −40.83 ± 0.9413
pull
Entries 88
Mean −50.73
Std Dev 0

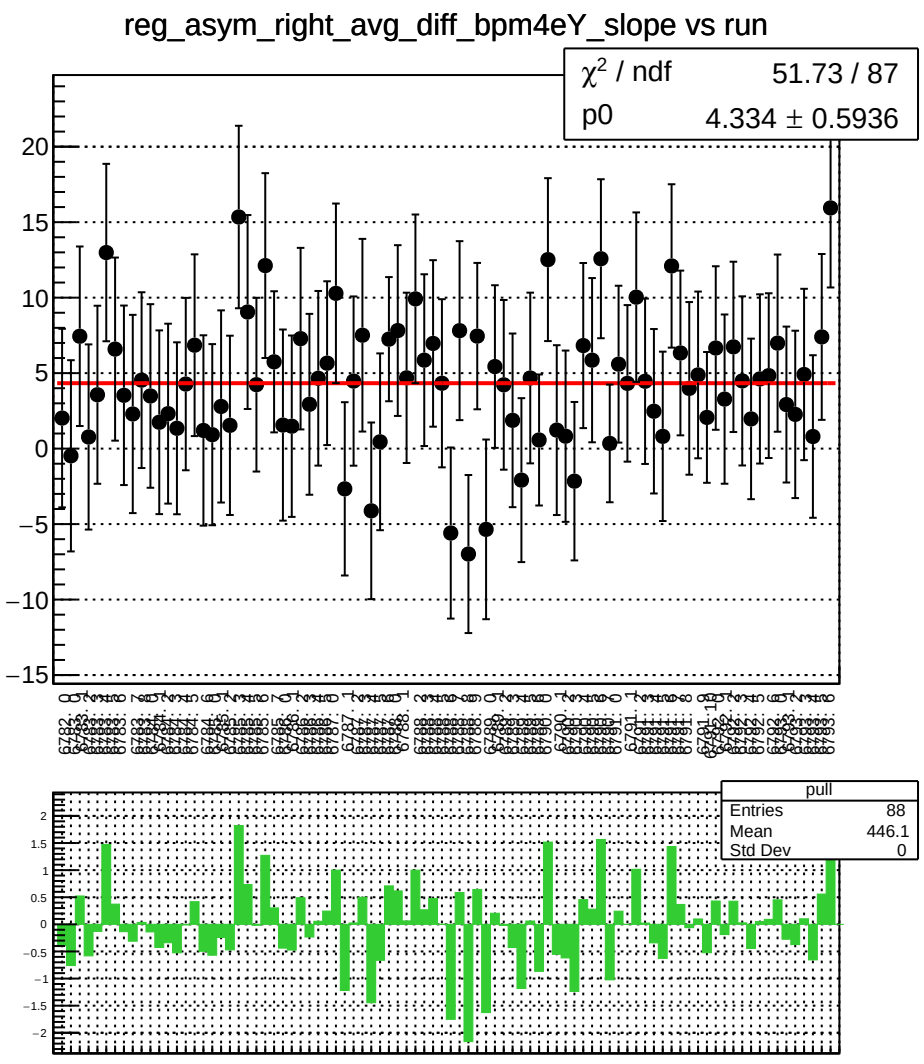

pull1D
Entries 88
Mean 0.007756
Std Dev 0.7569

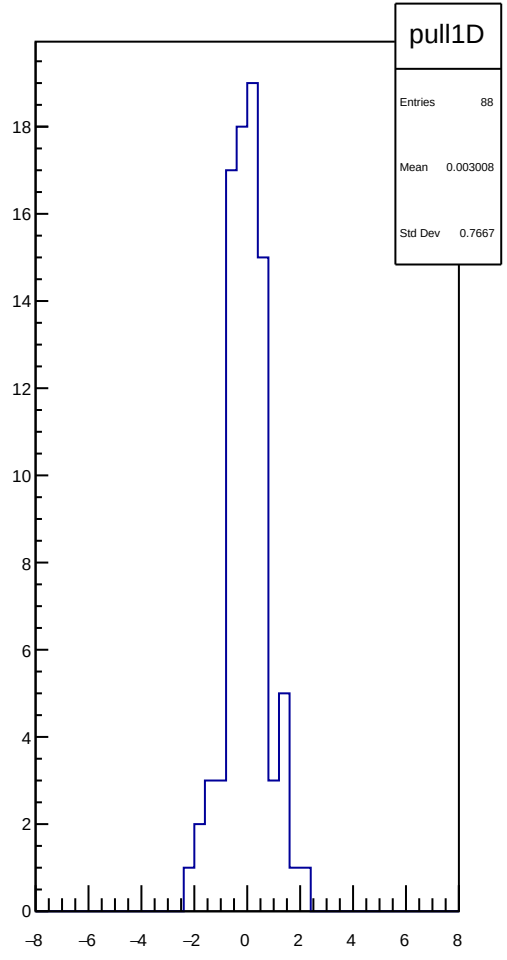

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.83 / 87
p0 2.623 ± 0.4329
pull
Entries 88
Mean 143.8
Std Dev 0

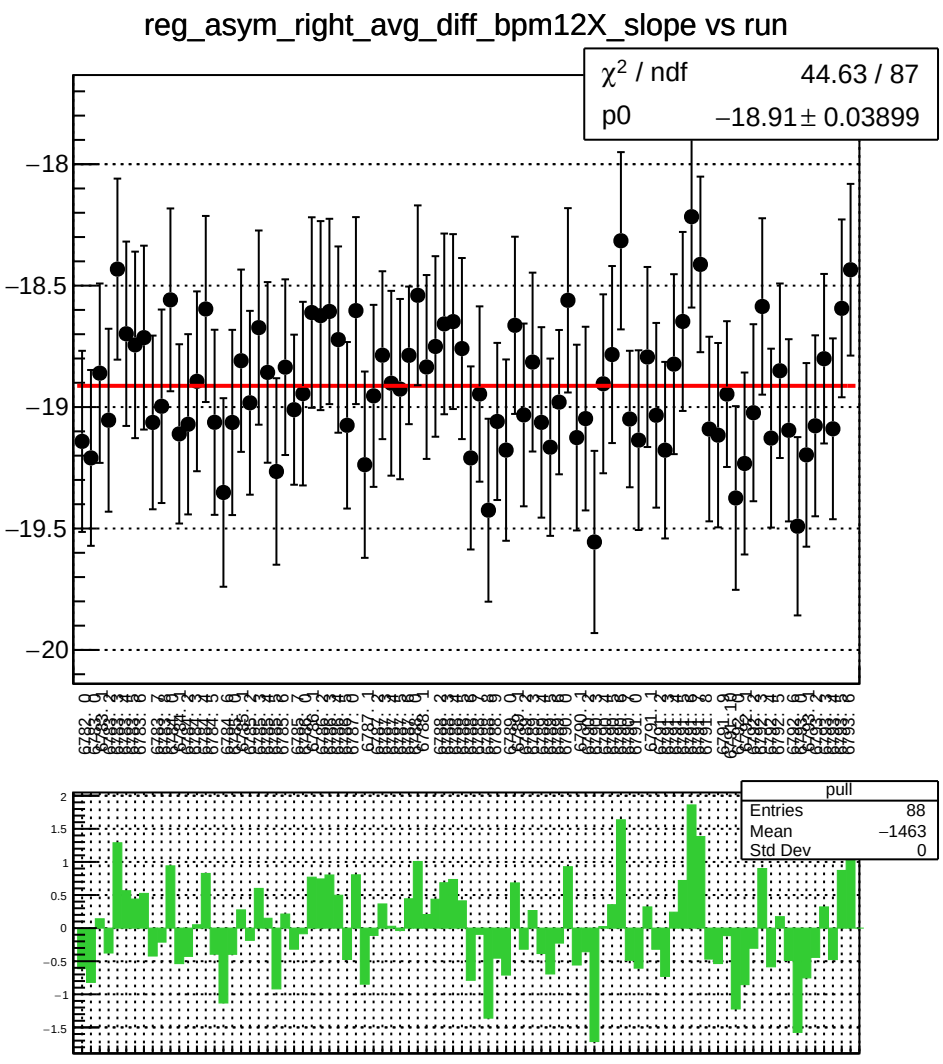

pull1D
Entries 88
Mean −0.008329
Std Dev 0.7748

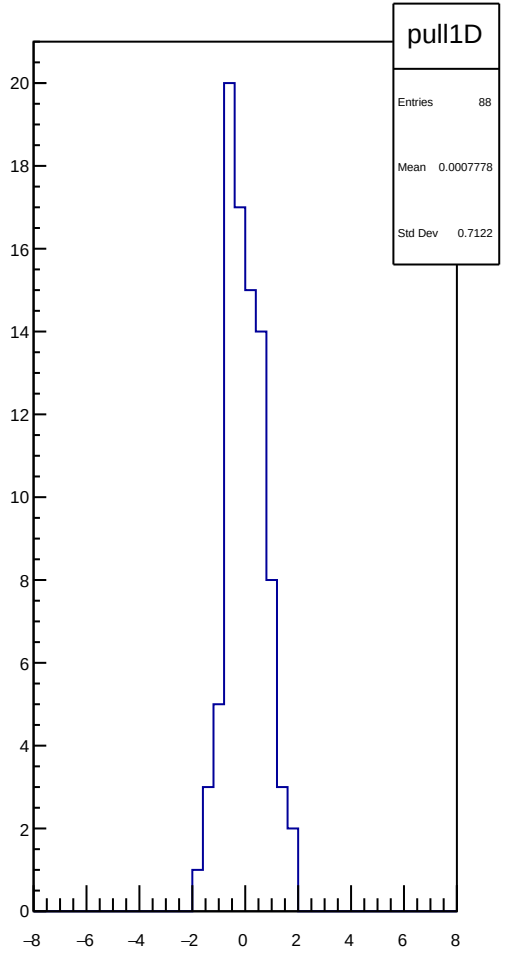

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.07 / 87
p0 68.83 ± 0.8778
pull
Entries 88
Mean −82.79
Std Dev 0

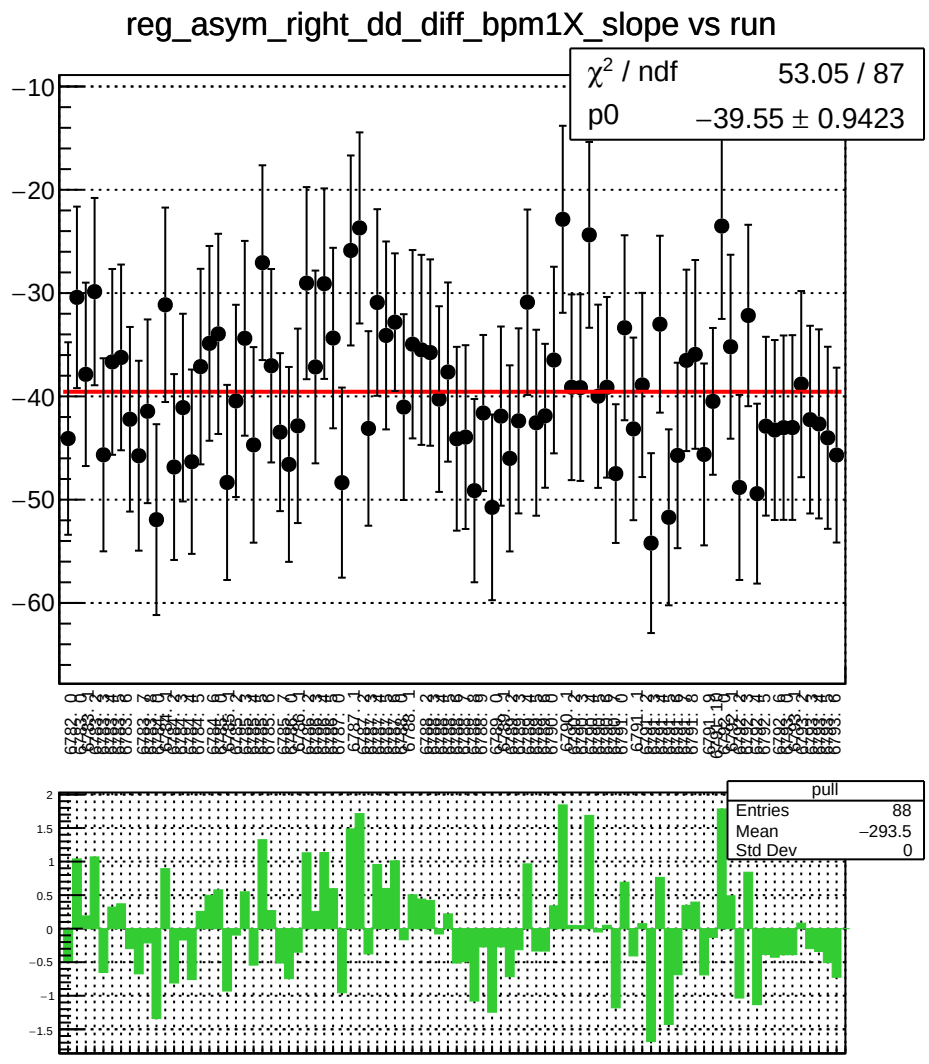

pull1D
Entries 88
Mean −0.008337
Std Dev 0.7618

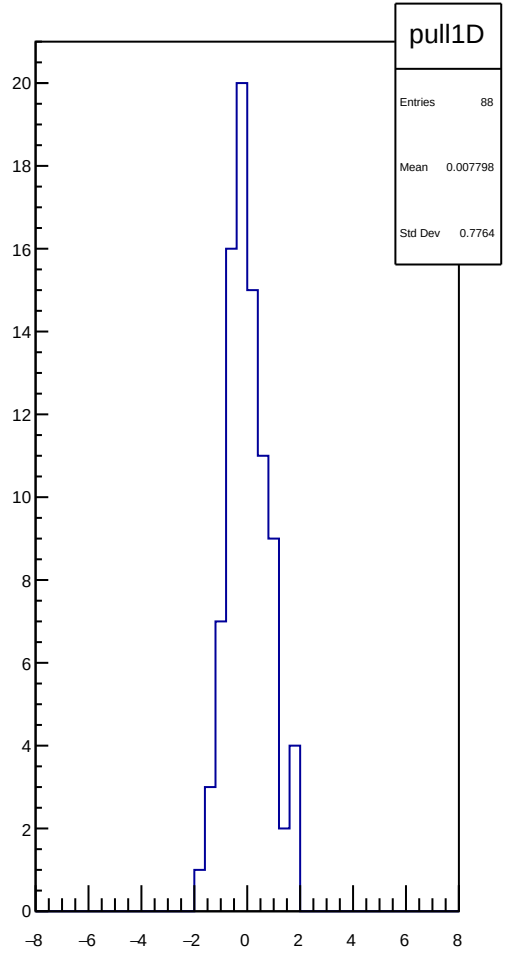

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.73 / 87
p0 4.334 ± 0.5936
pull
Entries 88
Mean 446.1
Std Dev 0

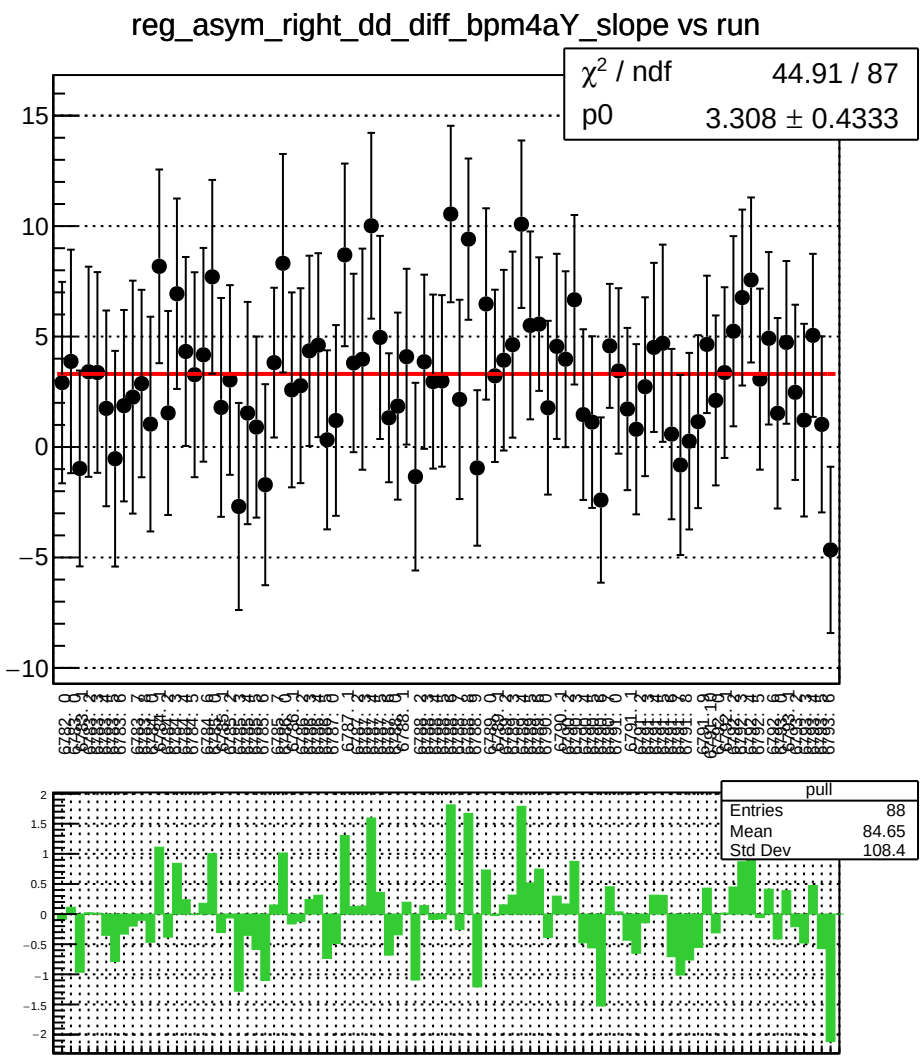

pull1D
Entries 88
Mean 0.003008
Std Dev 0.7667

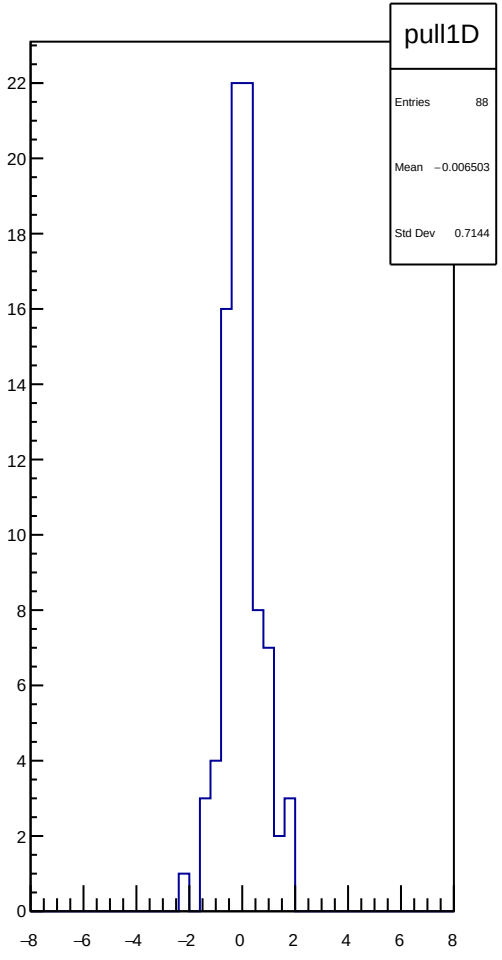

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 44.63 / 87
p0 −18.91 ± 0.03899
−18
−18.5
−19
−19.5
−20
pull
Entries 88
Mean −1463
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

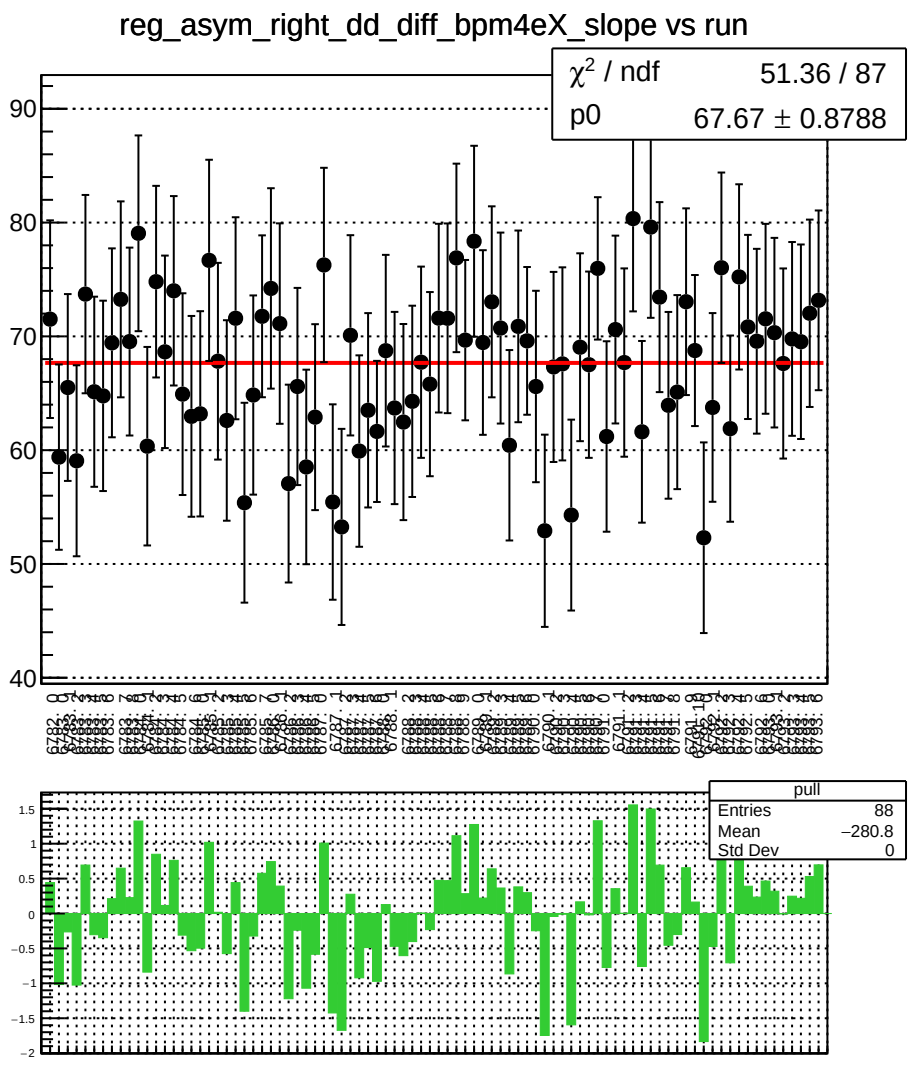

pull1D
Entries 88
Mean 0.0007778
Std Dev 0.7122
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

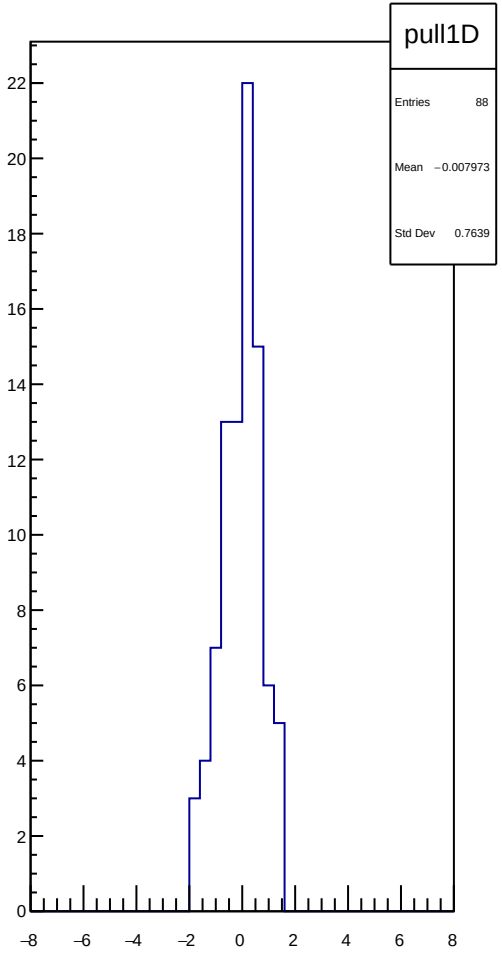

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 53.05 / 87
p0 −39.55 ± 0.9423
pull
Entries 88
Mean −293.5
Std Dev 0

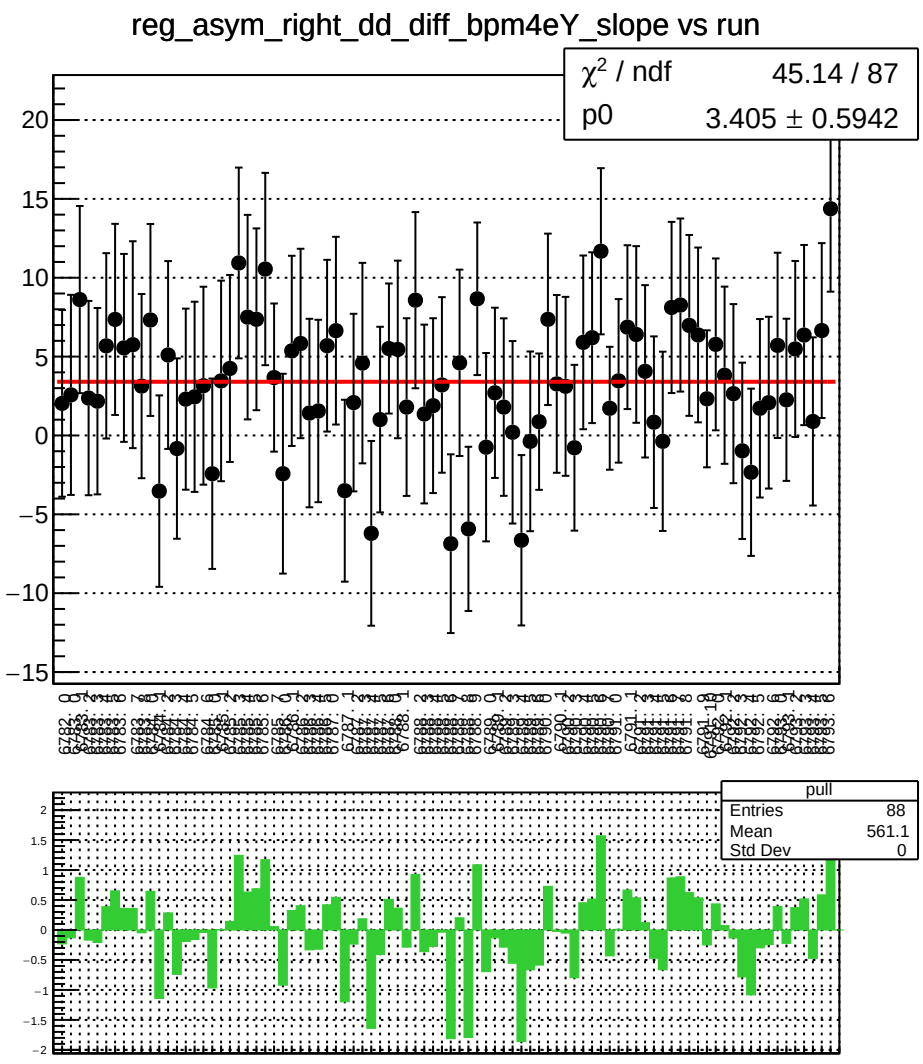

pull1D
Entries 88
Mean 0.007798
Std Dev 0.7764

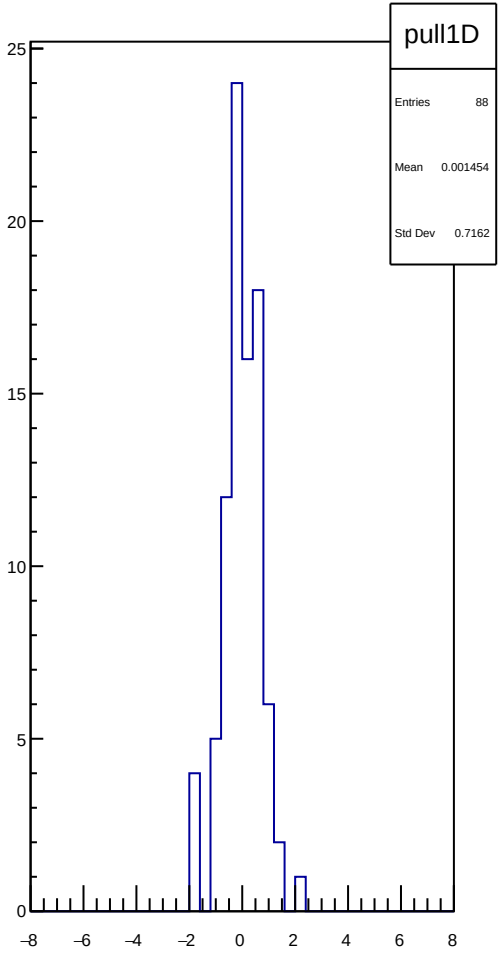

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.91 / 87
p0 3.308 ± 0.4333
pull
Entries 88
Mean 84.65
Std Dev 108.4

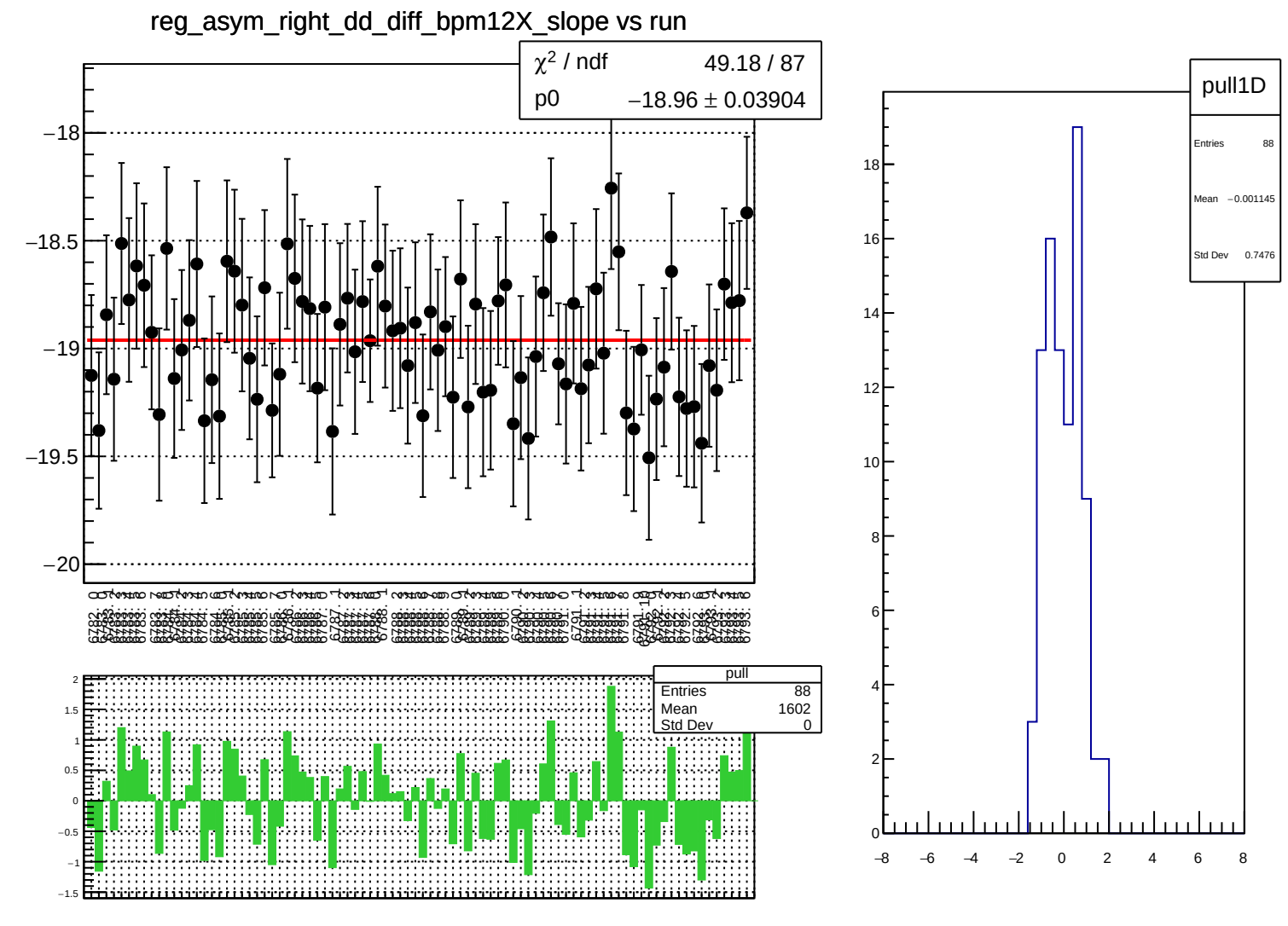

pull1D
Entries 88
Mean −0.006503
Std Dev 0.7144

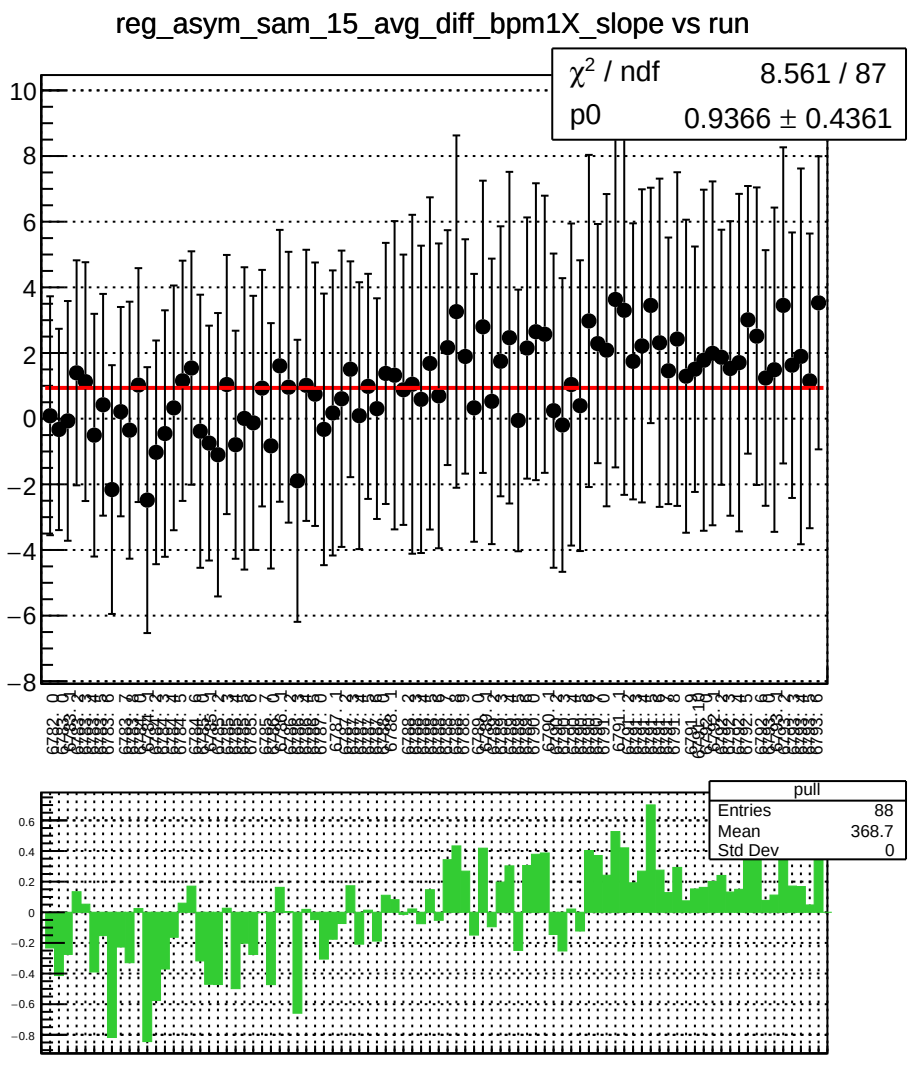

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.36 / 87
p0 67.67 ± 0.8788
pull
Entries 88
Mean −280.8
Std Dev 0

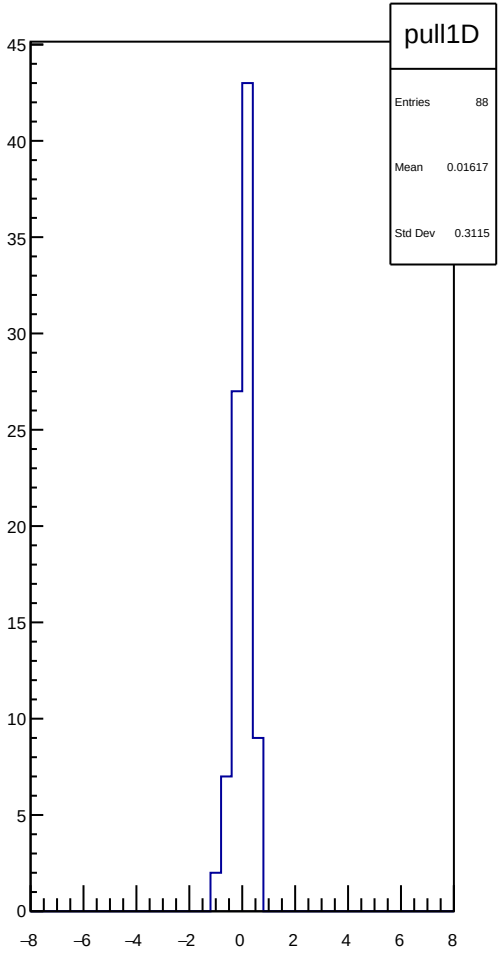

pull1D
Entries 88
Mean −0.007973
Std Dev 0.7639

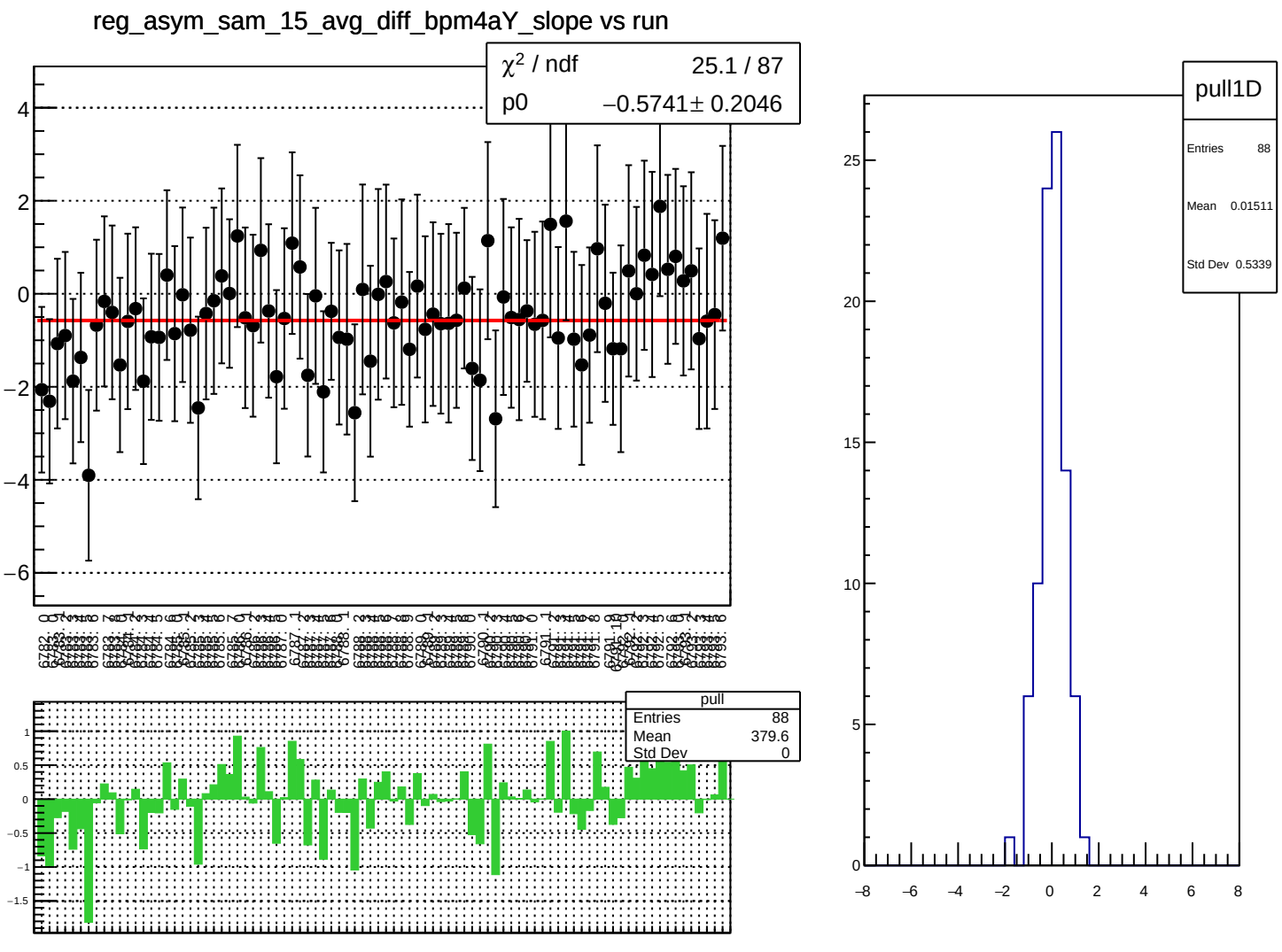

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.14 / 87
p0 3.405 ± 0.5942
pull
Entries 88
Mean 561.1
Std Dev 0

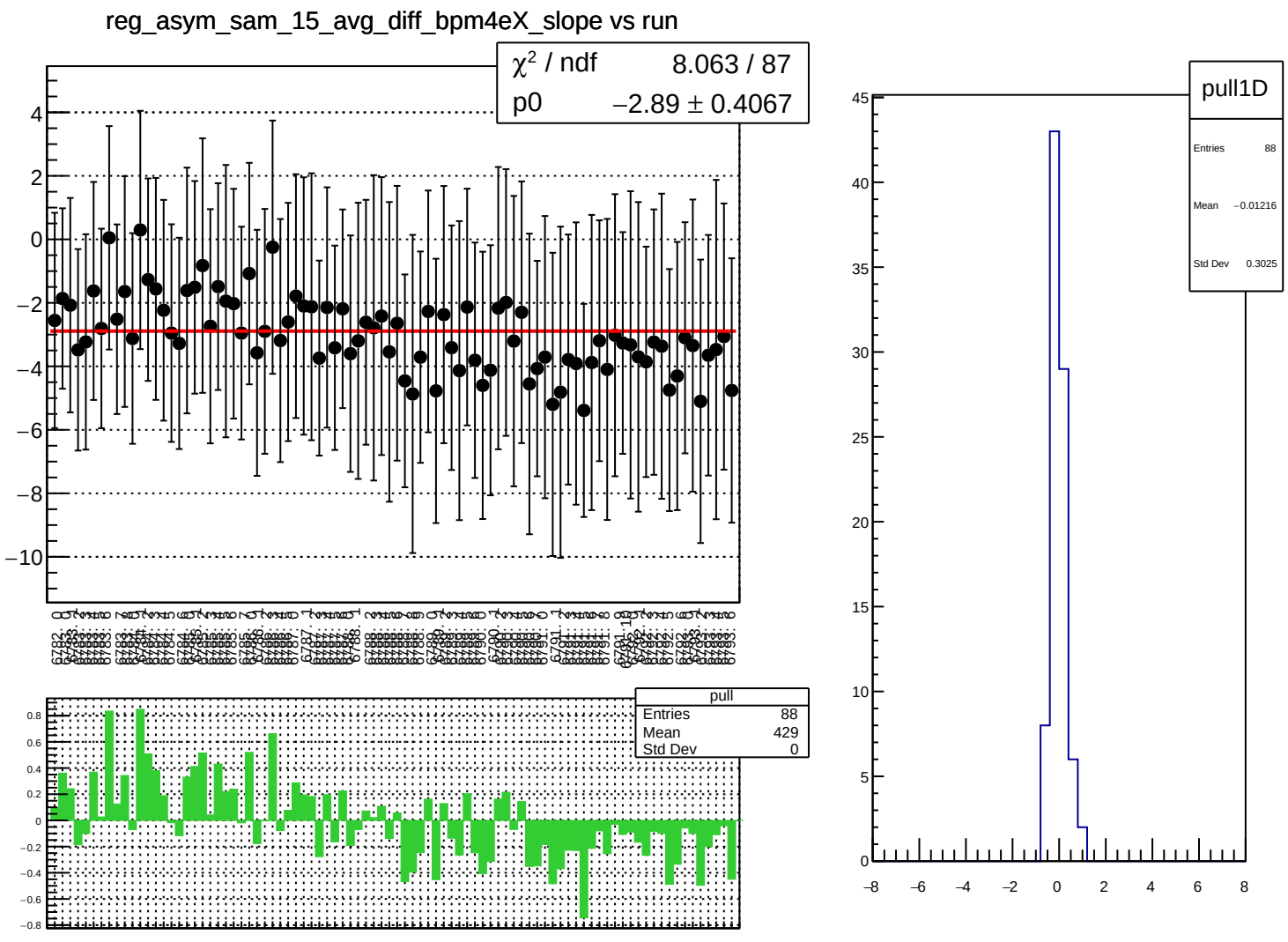

pull1D
Entries 88
Mean 0.001454
Std Dev 0.7162

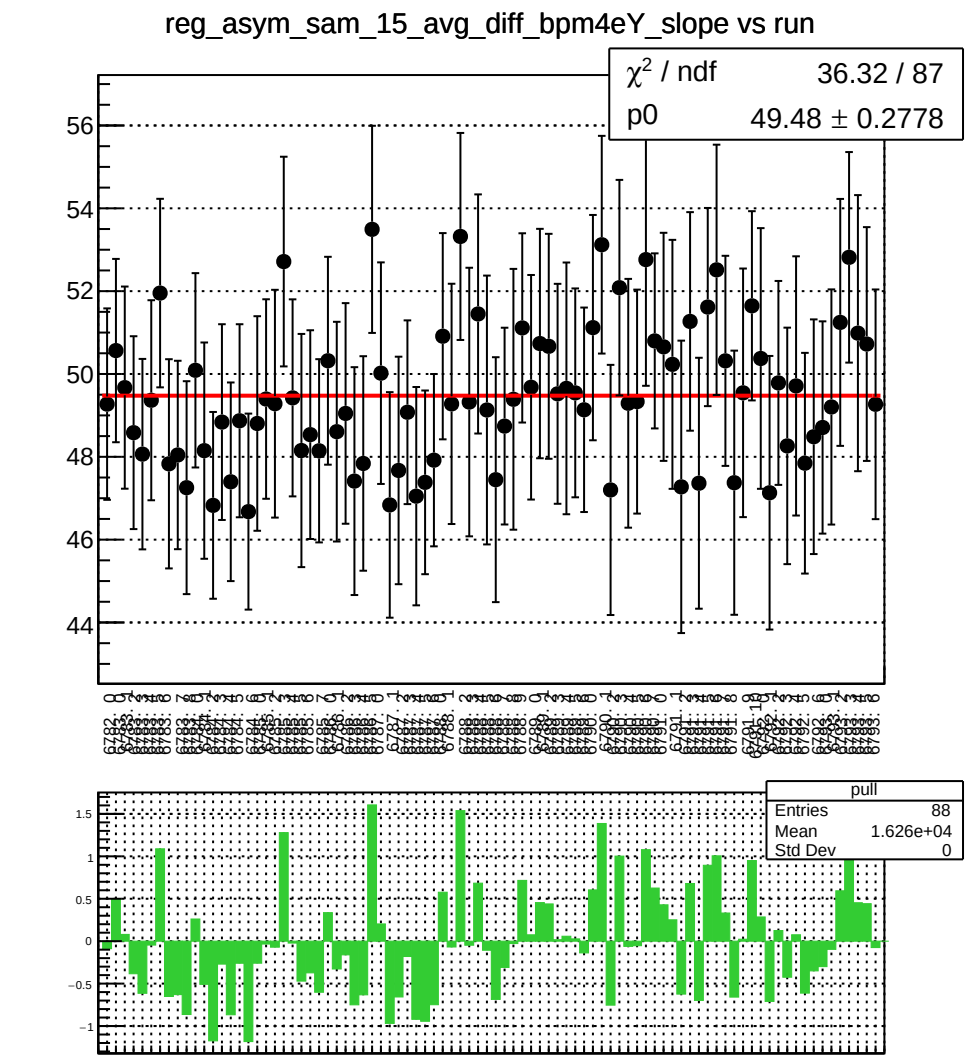

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 49.18 / 87
p0 −18.96 ± 0.03904
−18
−18.5
−19
−19.5
−20
pull
Entries 88
Mean 1602
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.001145
Std Dev 0.7476
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

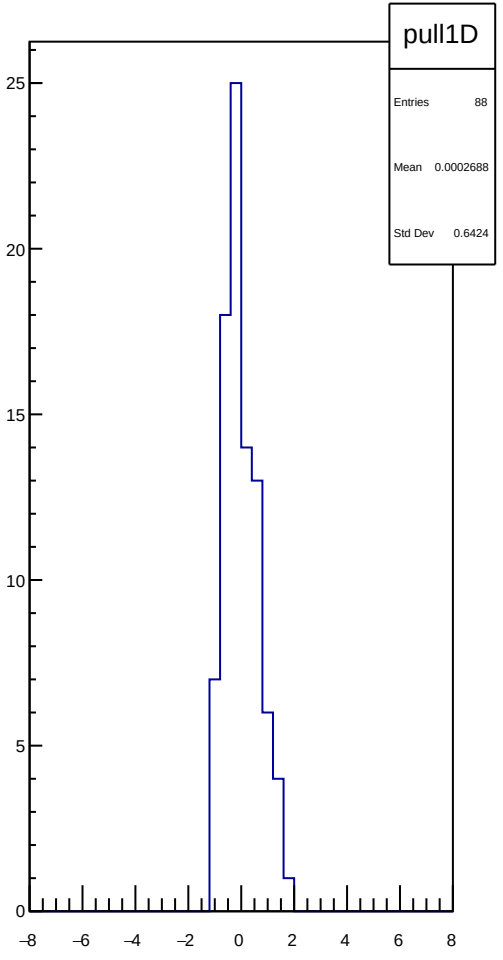

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 8.561 / 87
p0 0.9366 ± 0.4361
pull
Entries 88
Mean 368.7
Std Dev 0

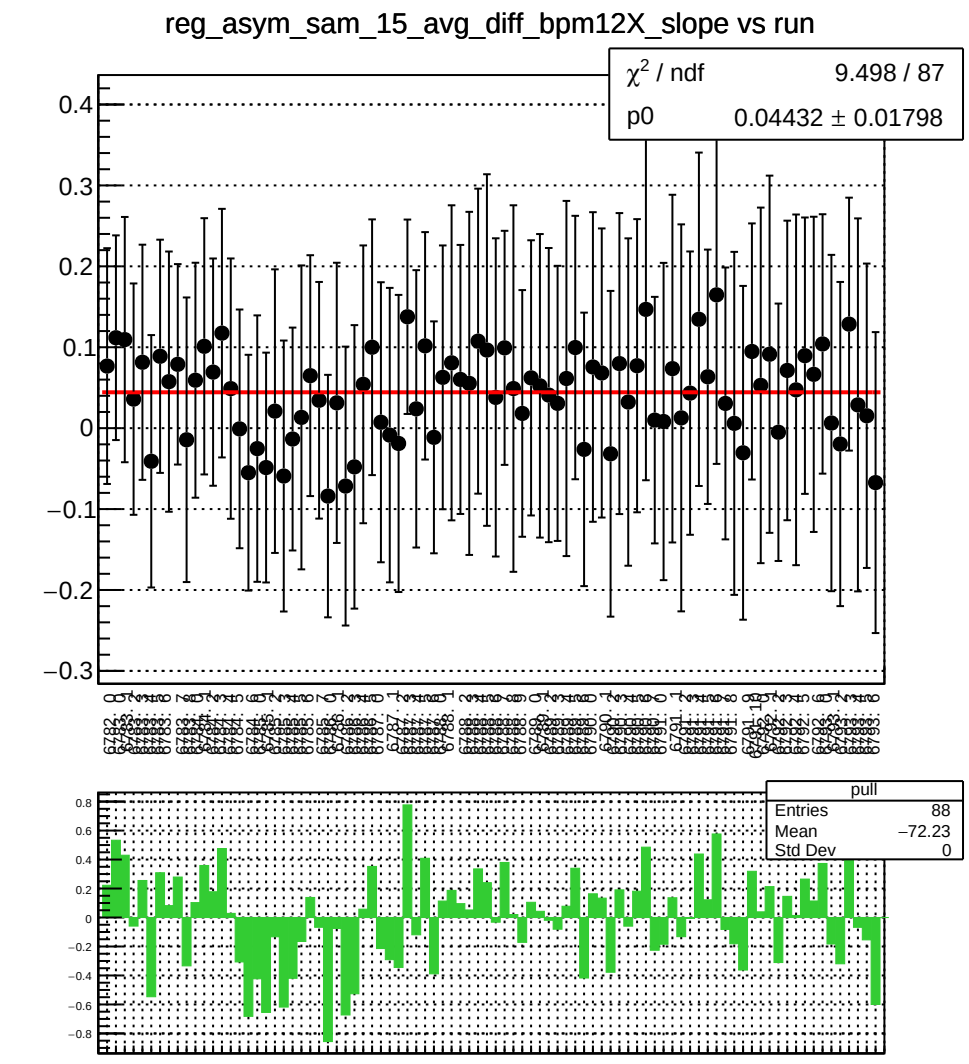

pull1D
Entries 88
Mean 0.01617
Std Dev 0.3115

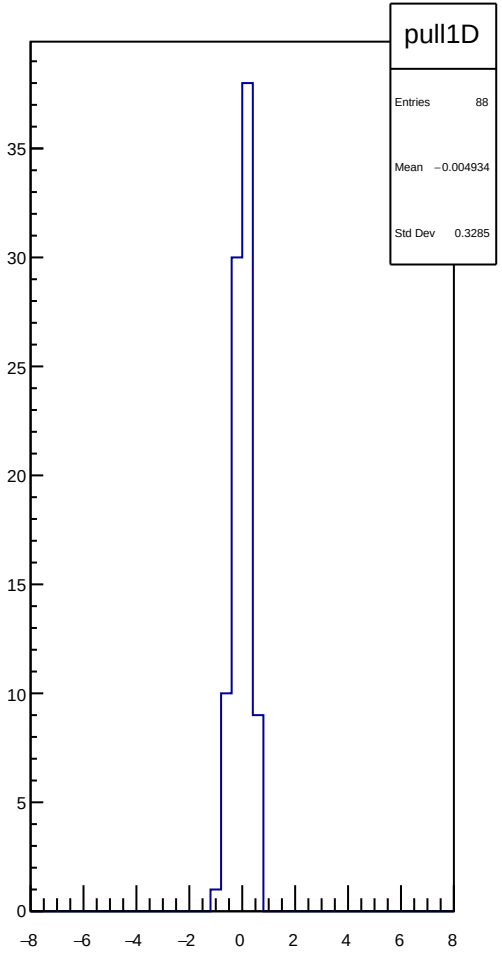

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.1 / 87
p0 −0.5741± 0.2046
pull
Entries 88
Mean 379.6
Std Dev 0
pull1D
Entries 88
Mean 0.01511
Std Dev 0.5339

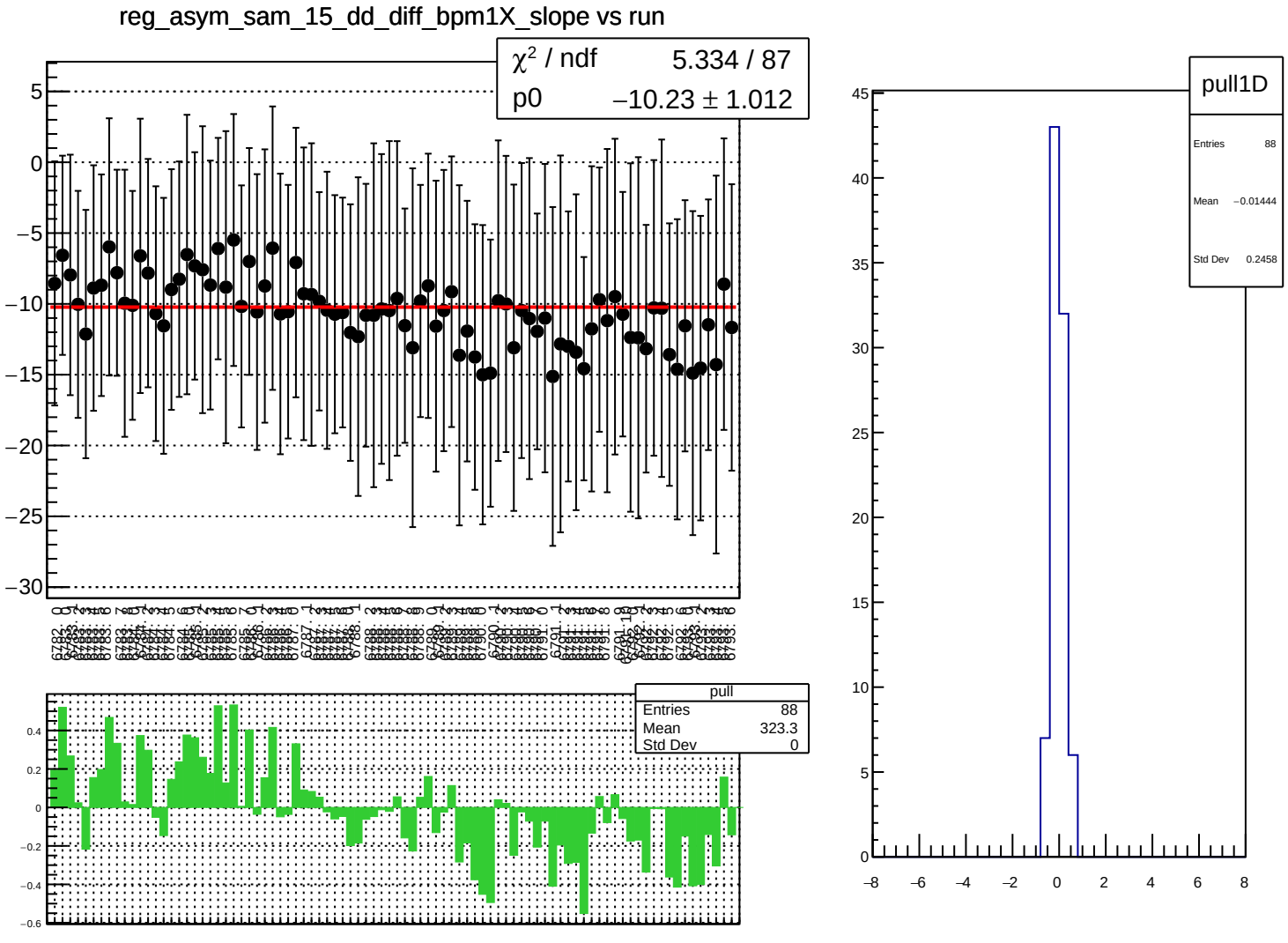

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.063 / 87
p0 −2.89 ± 0.4067
pull
Entries 88
Mean 429
Std Dev 0
pull1D
Entries 88
Mean −0.01216
Std Dev 0.3025

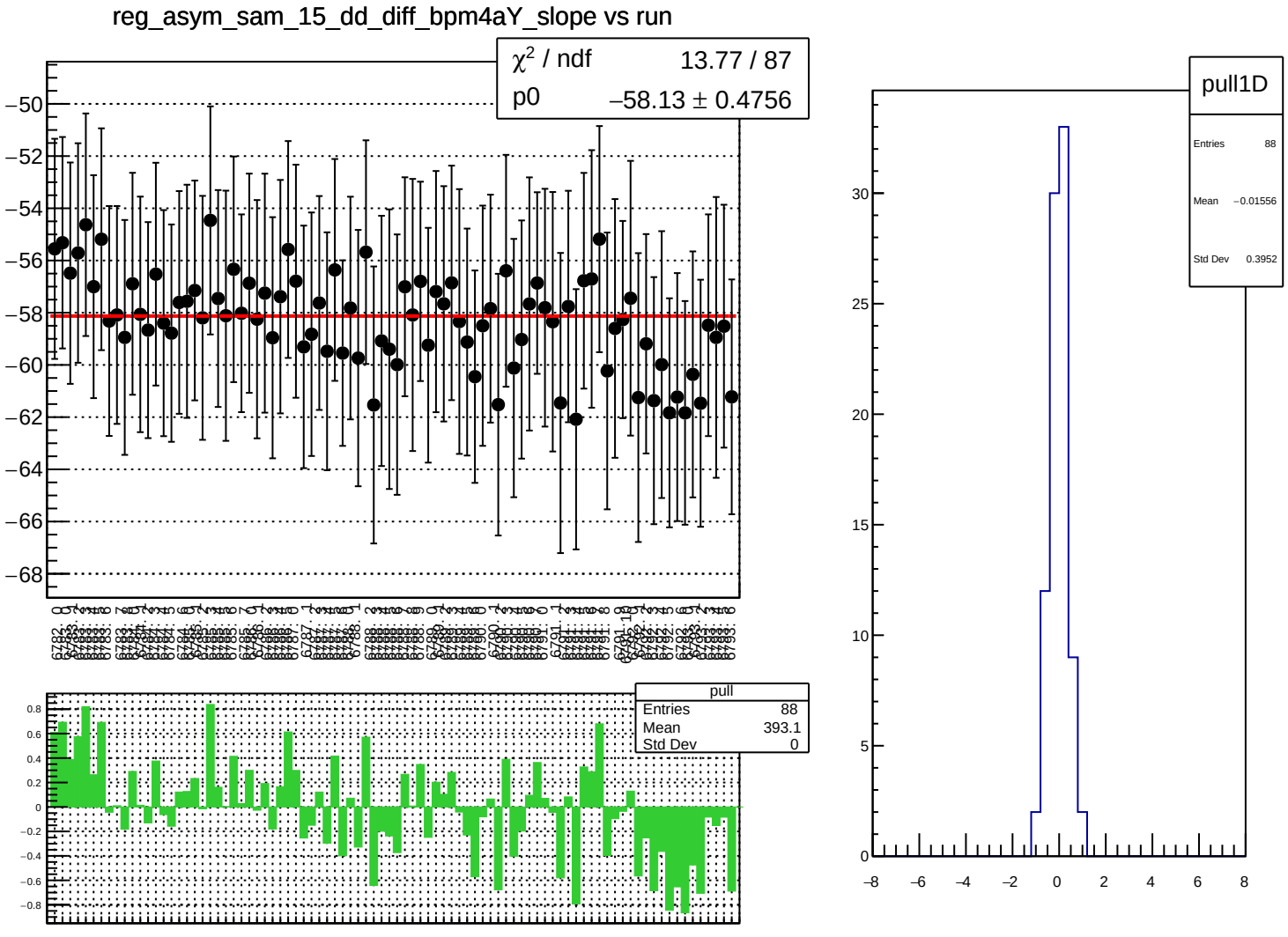

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.32 / 87
p0 49.48 ± 0.2778
pull
Entries 88
Mean 1.626e+04
Std Dev 0

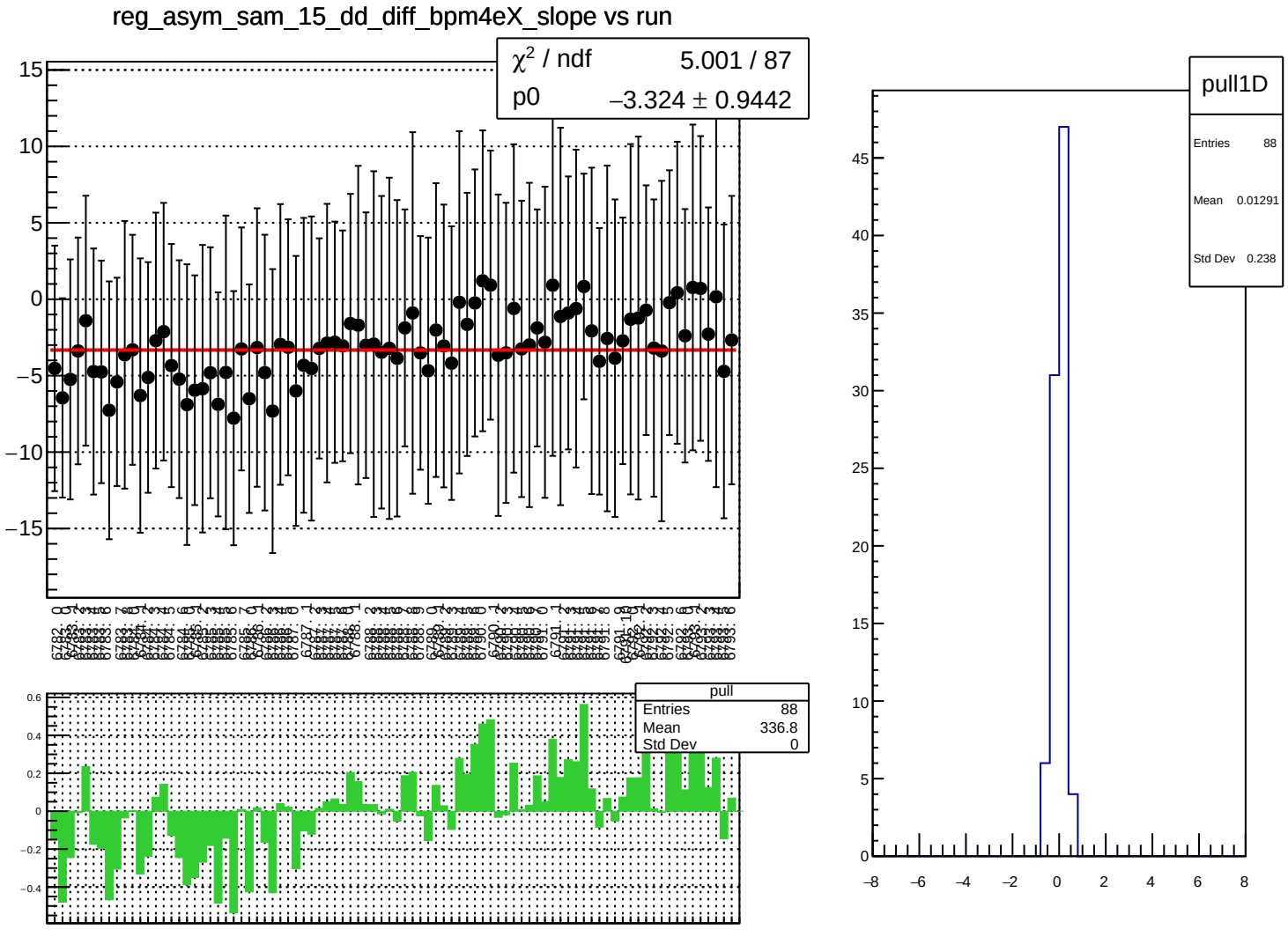

pull1D
Entries 88
Mean 0.0002688
Std Dev 0.6424

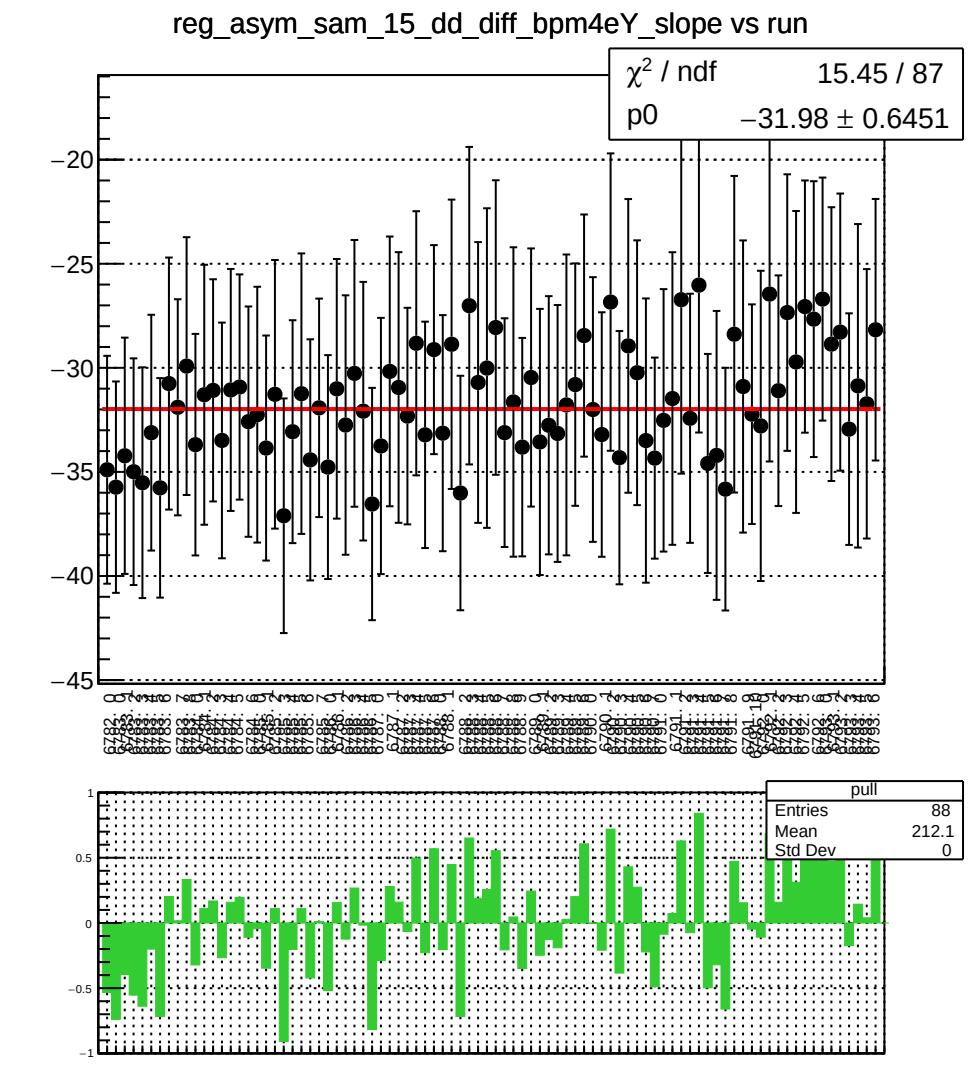

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 9.498 / 87
p0 0.04432 ± 0.01798
pull
Entries 88
Mean −72.23
Std Dev 0

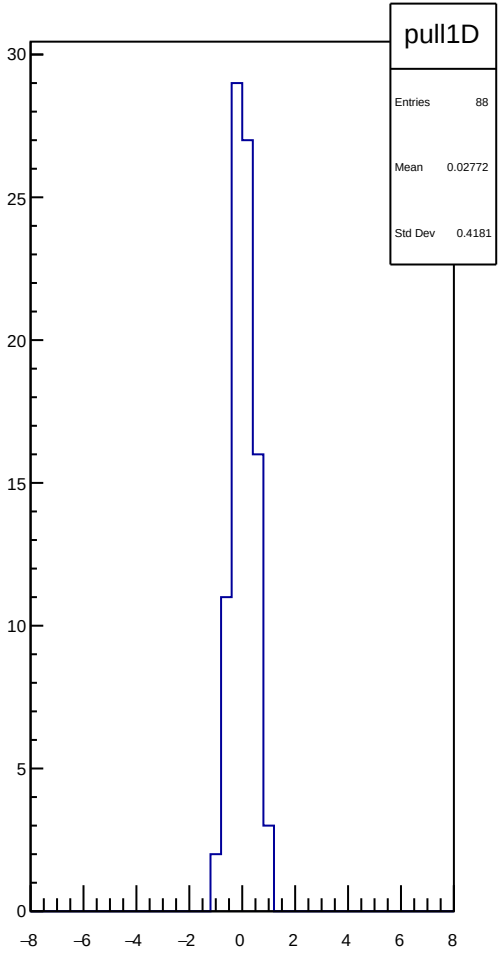

pull1D
Entries 88
Mean −0.004934
Std Dev 0.3285

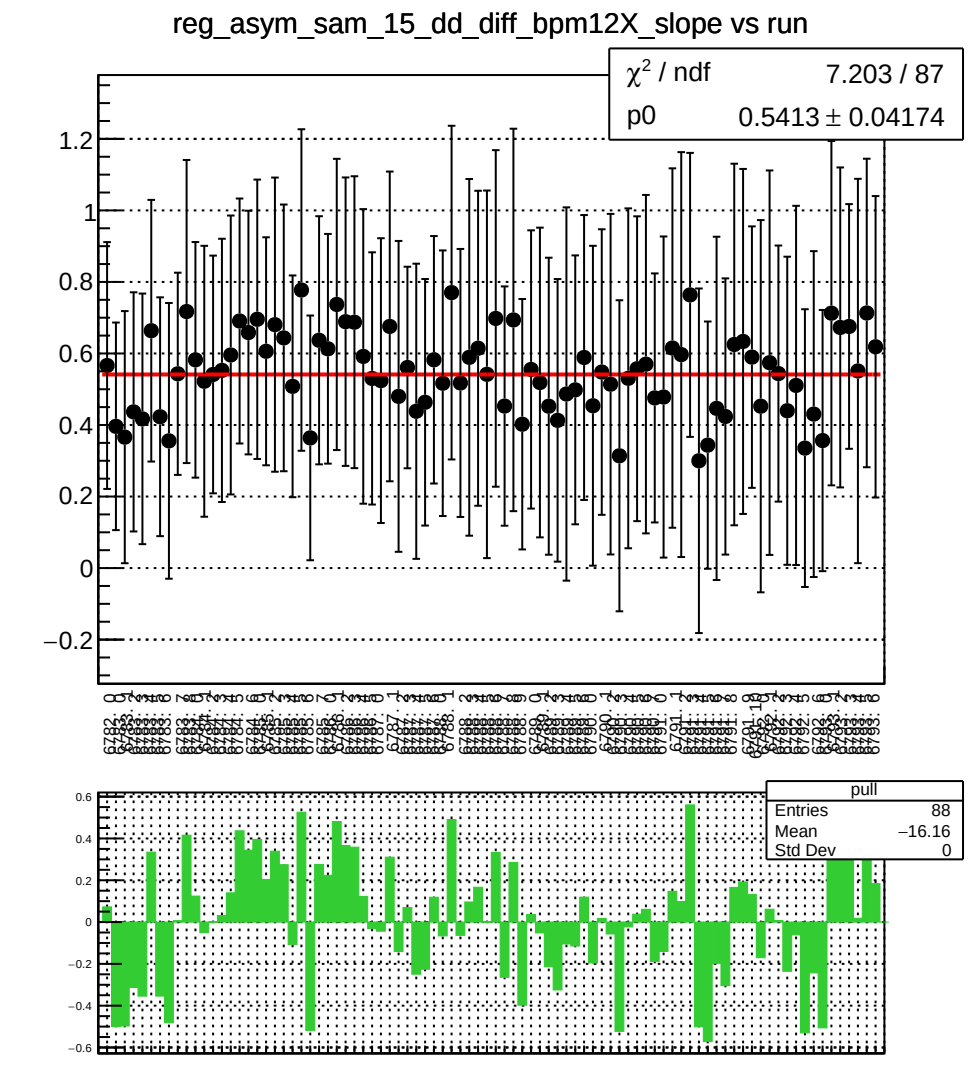

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 5.334 / 87
p0 −10.23 ± 1.012
pull
Entries 88
Mean 323.3
Std Dev 0
pull1D
Entries 88
Mean −0.01444
Std Dev 0.2458

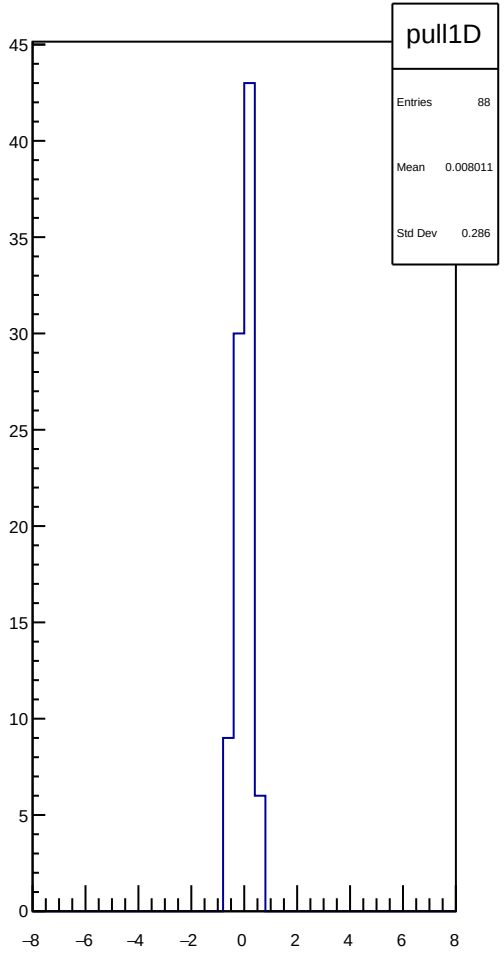

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.77 / 87
p0 −58.13 ± 0.4756
pull
Entries 88
Mean 393.1
Std Dev 0
pull1D
Entries 88
Mean −0.01556
Std Dev 0.3952

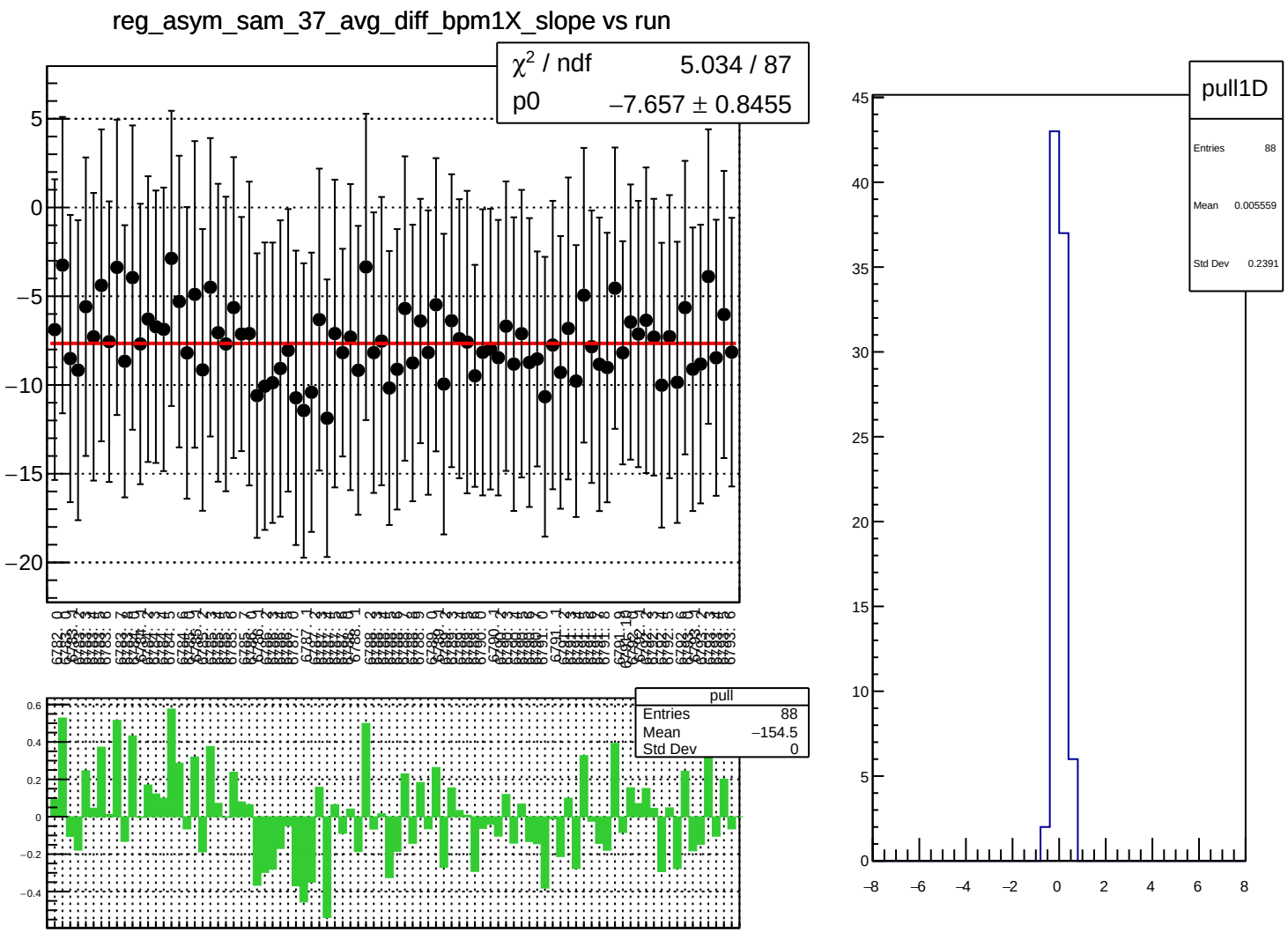

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.001 / 87
p0 −3.324 ± 0.9442
pull
Entries 88
Mean 336.8
Std Dev 0
pull1D
Entries 88
Mean 0.01291
Std Dev 0.238

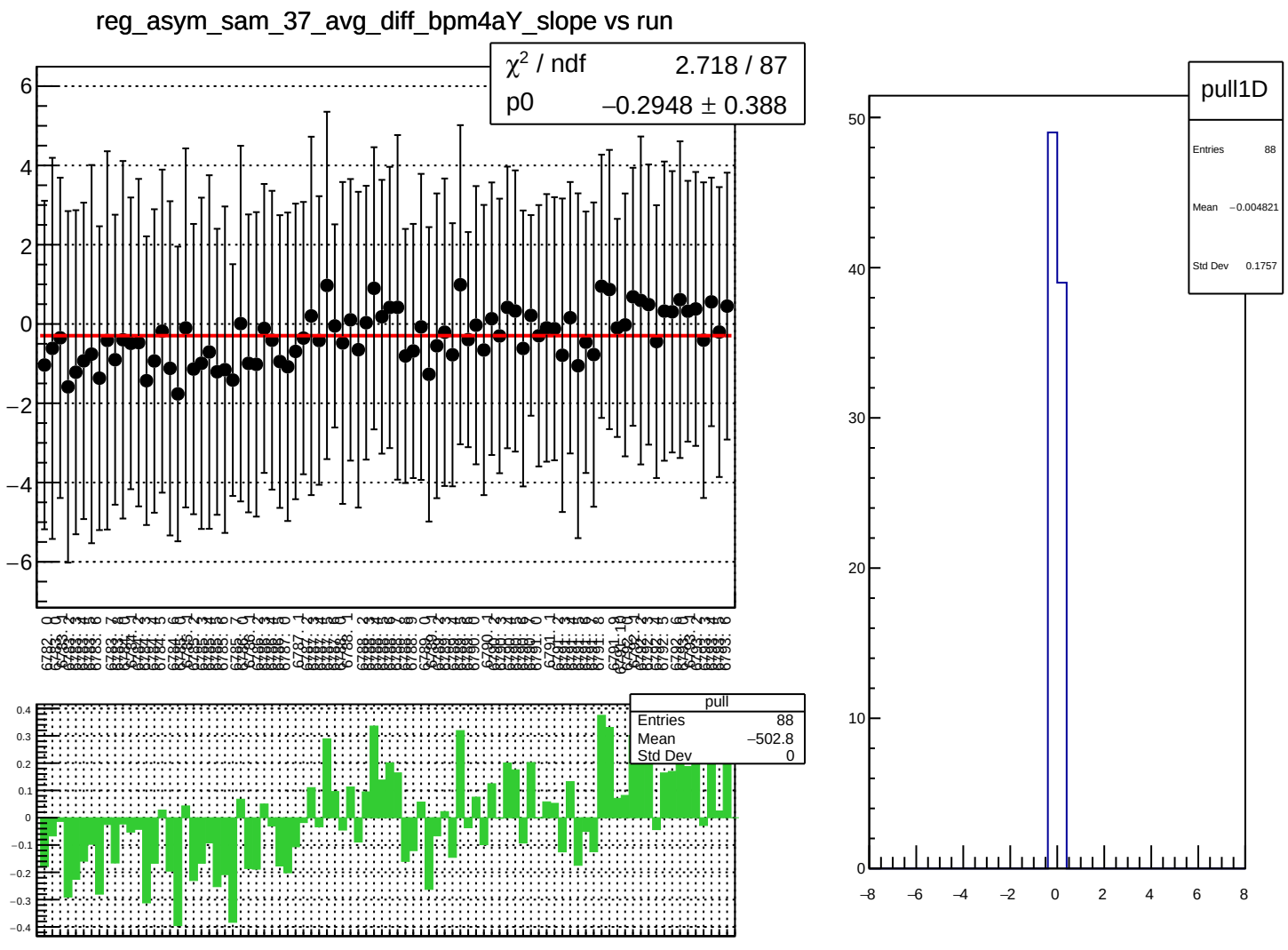

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.45 / 87
p0 −31.98 ± 0.6451
pull
Entries 88
Mean 212.1
Std Dev 0

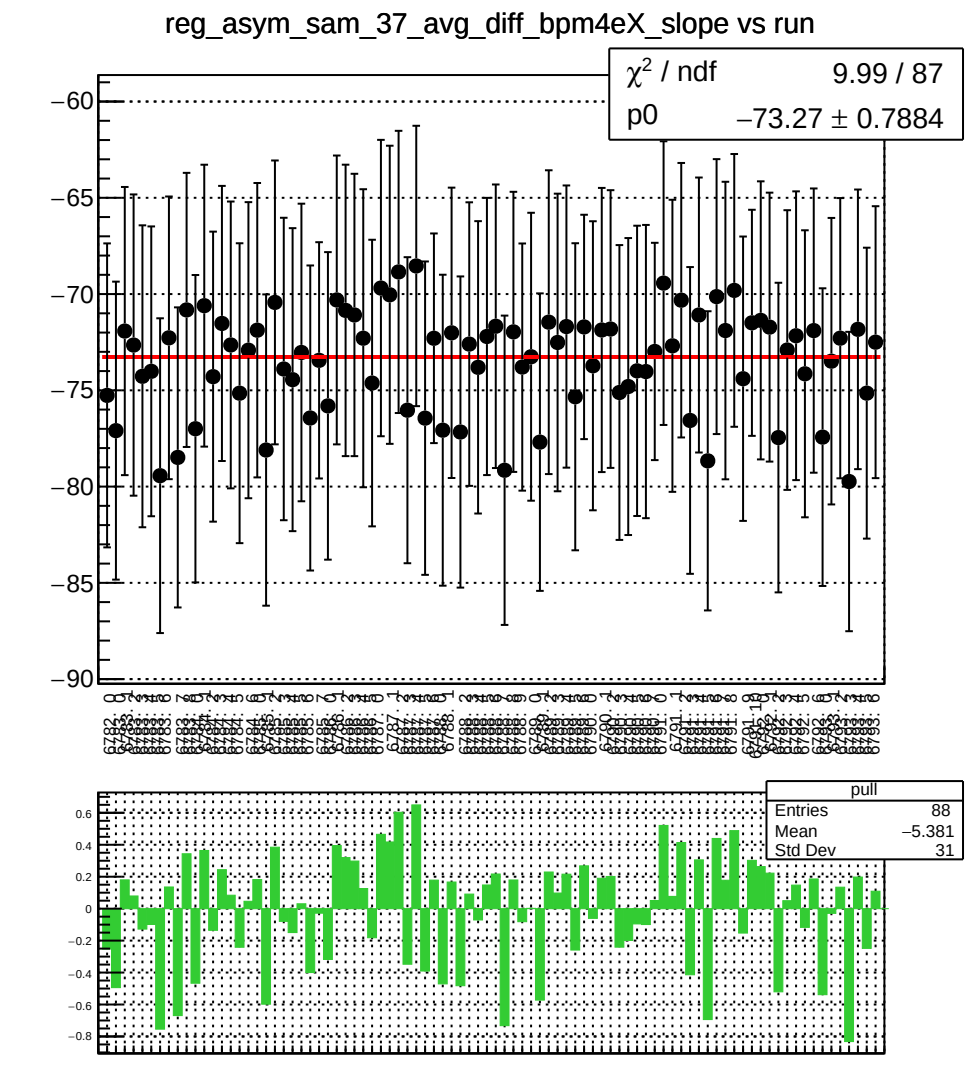

pull1D
Entries 88
Mean 0.02772
Std Dev 0.4181

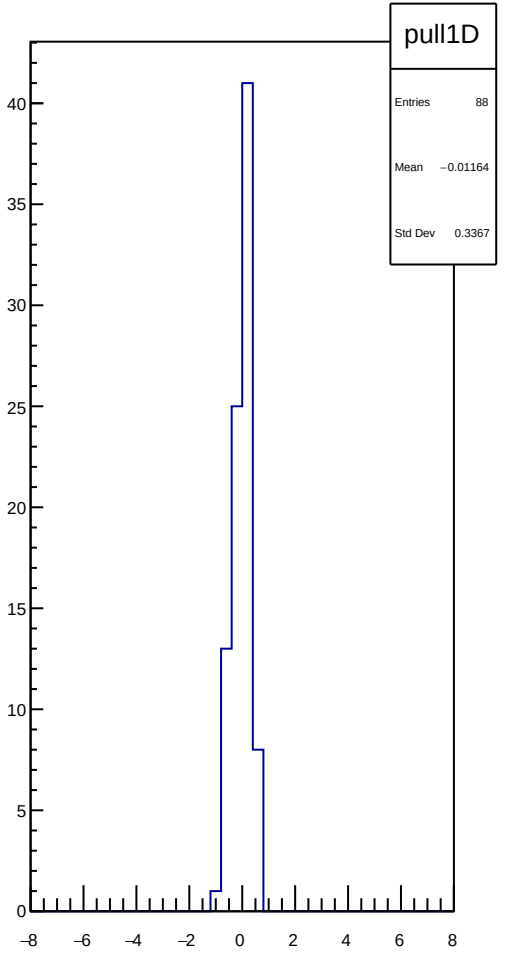

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 7.203 / 87
p0 0.5413 ± 0.04174
pull
Entries 88
Mean −16.16
Std Dev 0

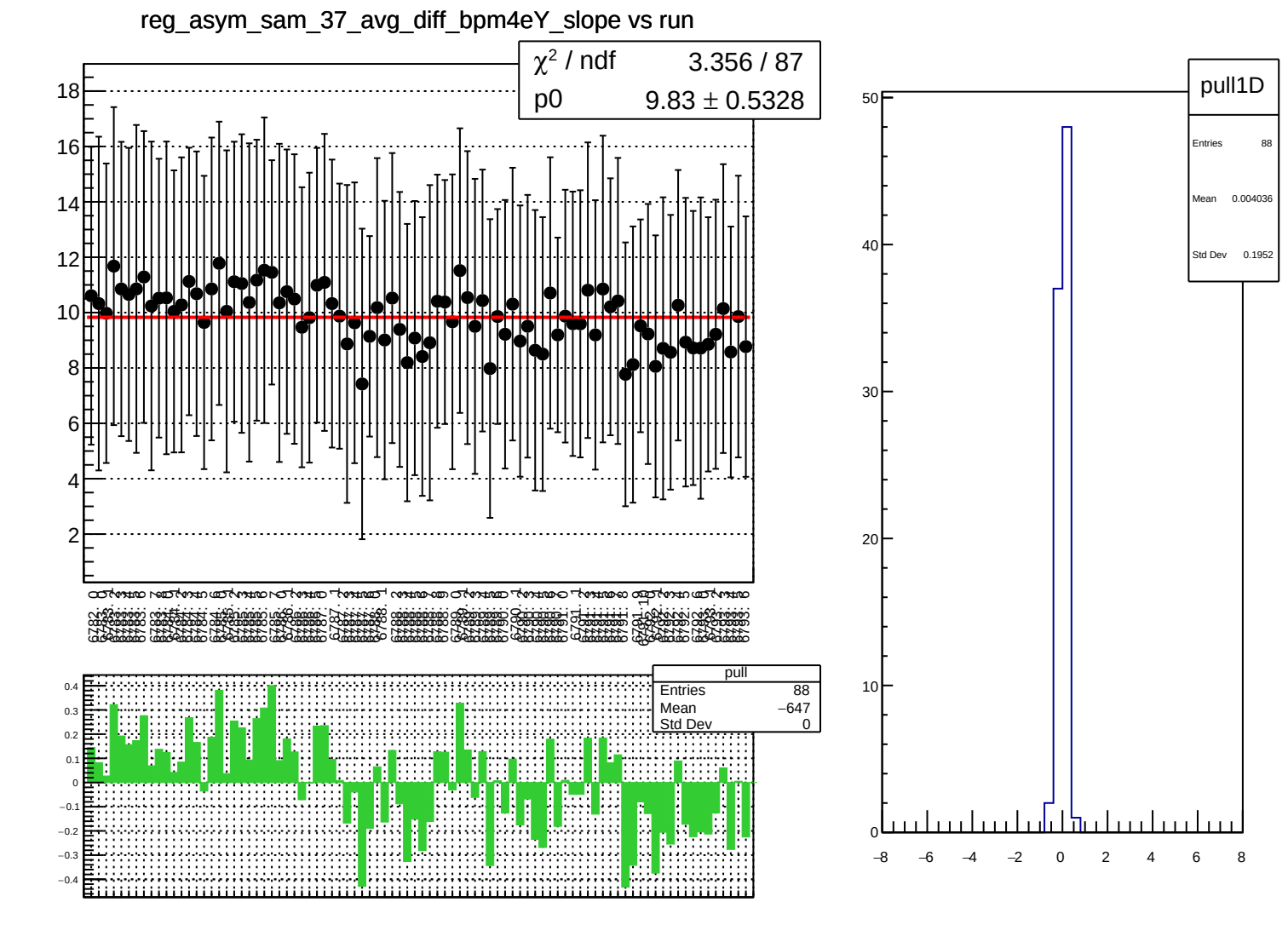

pull1D
Entries 88
Mean 0.008011
Std Dev 0.286

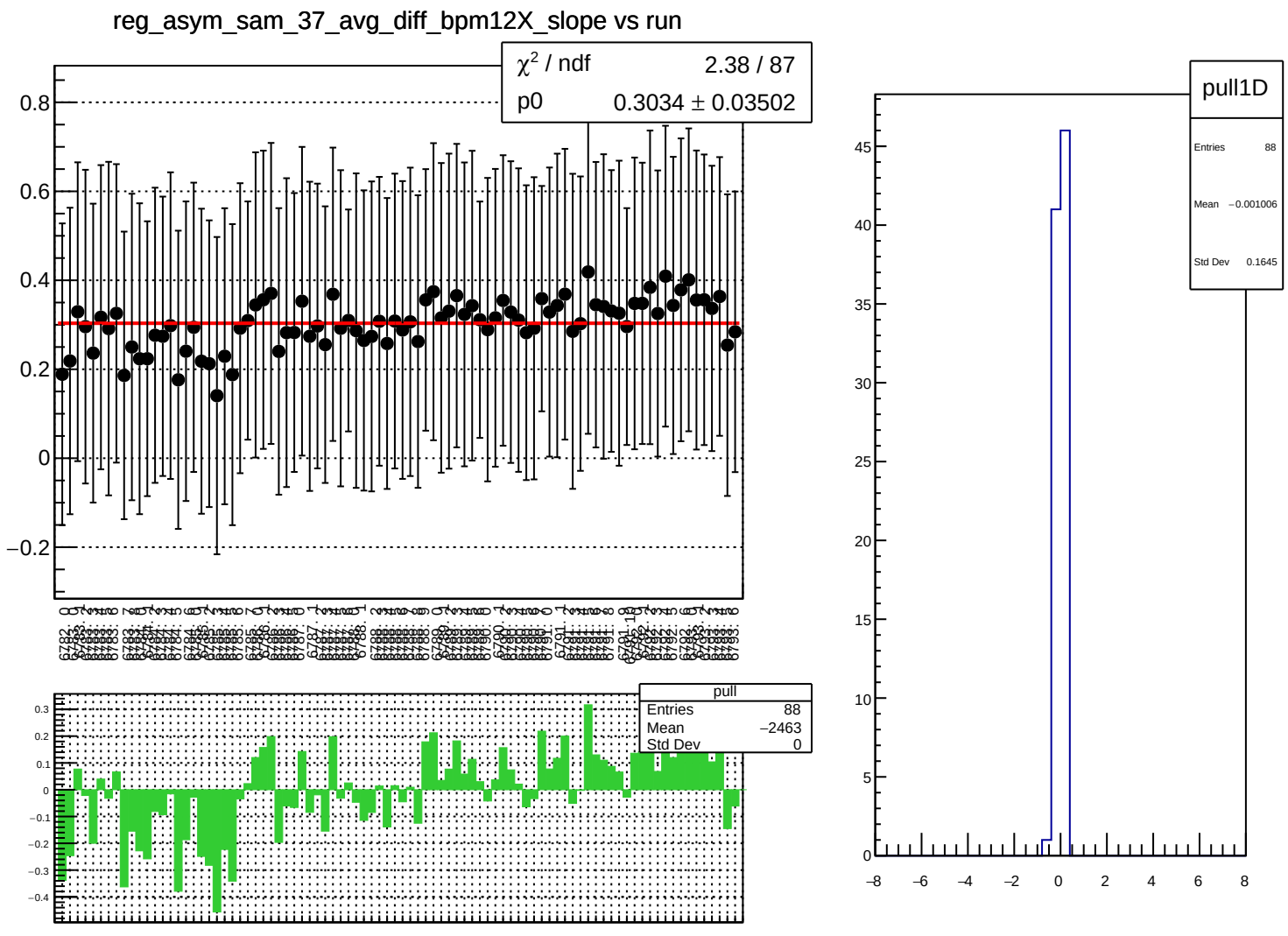

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.034 / 87
p0 −7.657 ± 0.8455
pull
Entries 88
Mean −154.5
Std Dev 0
pull1D
Entries 88
Mean 0.005559
Std Dev 0.2391

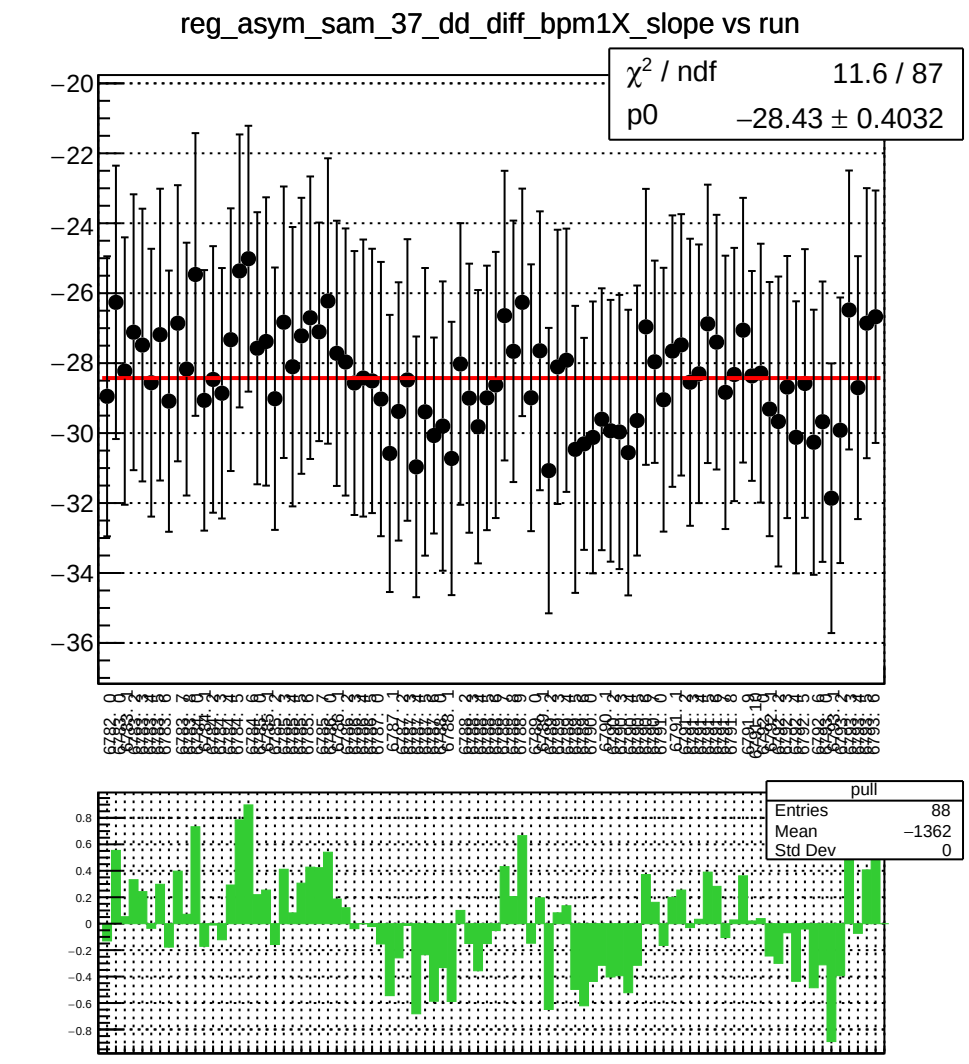

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.718 / 87
p0 −0.2948 ± 0.388
pull
Entries 88
Mean −502.8
Std Dev 0
pull1D
Entries 88
Mean −0.004821
Std Dev 0.1757

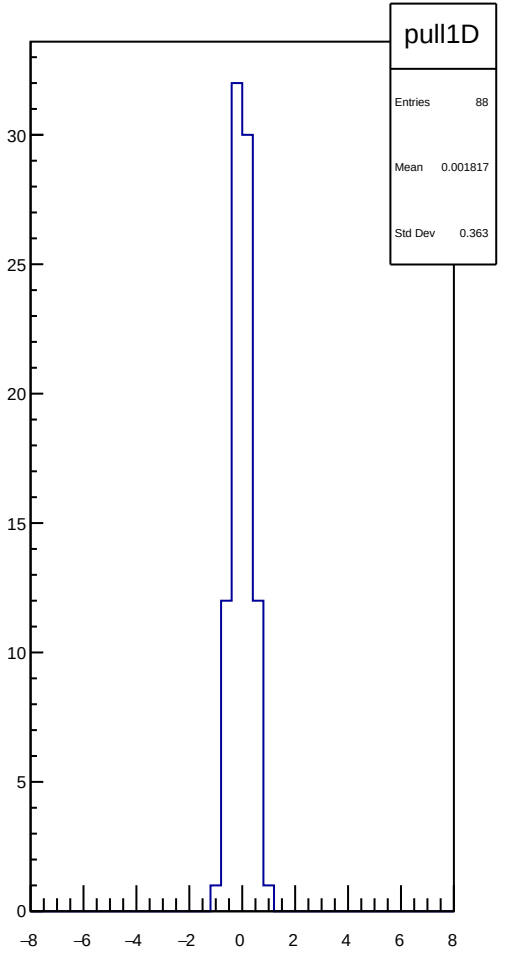

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.99 / 87
p0 −73.27 ± 0.7884
pull
Entries 88
Mean −5.381
Std Dev 31

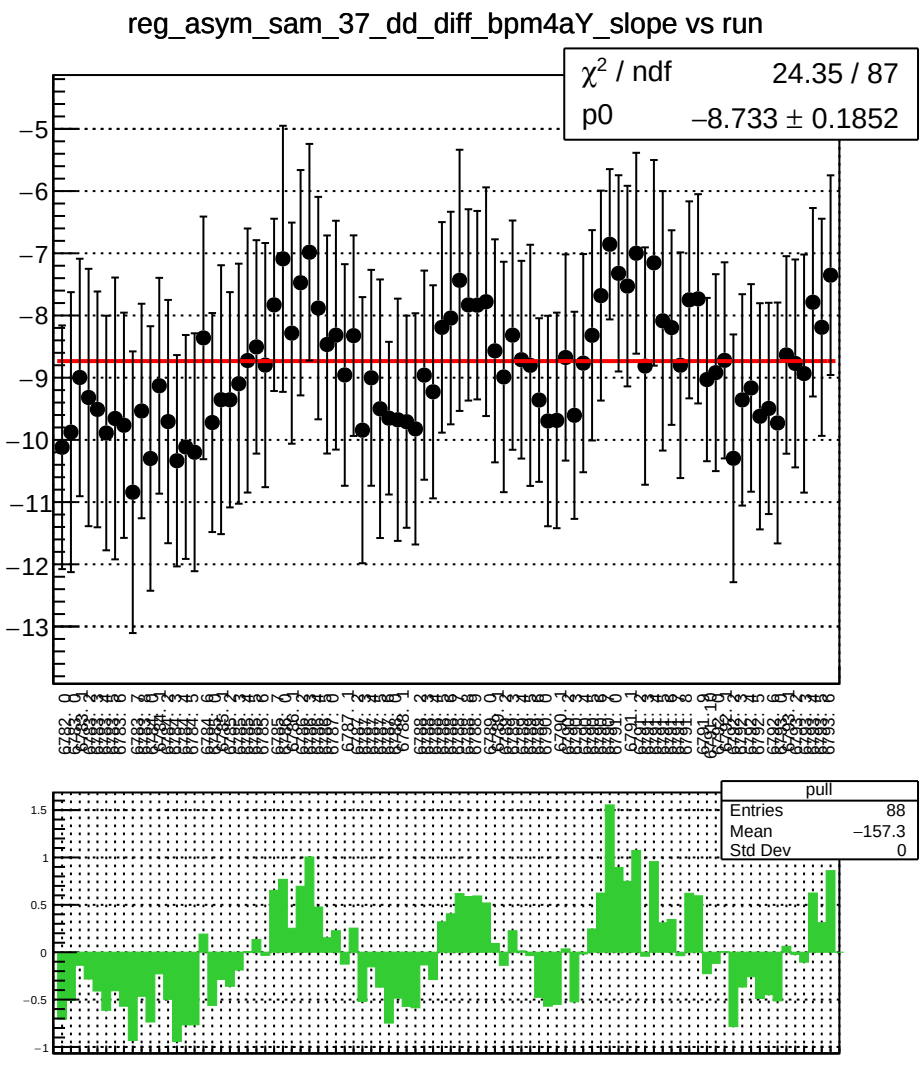

pull1D
Entries 88
Mean −0.01164
Std Dev 0.3367

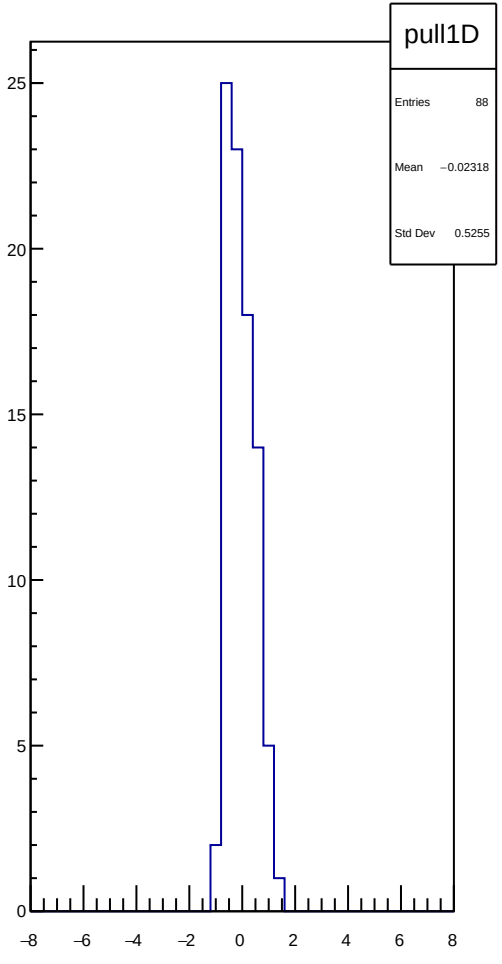

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.356 / 87
p0 9.83 ± 0.5328
pull
Entries 88
Mean −647
Std Dev 0
pull1D
Entries 88
Mean 0.004036
Std Dev 0.1952

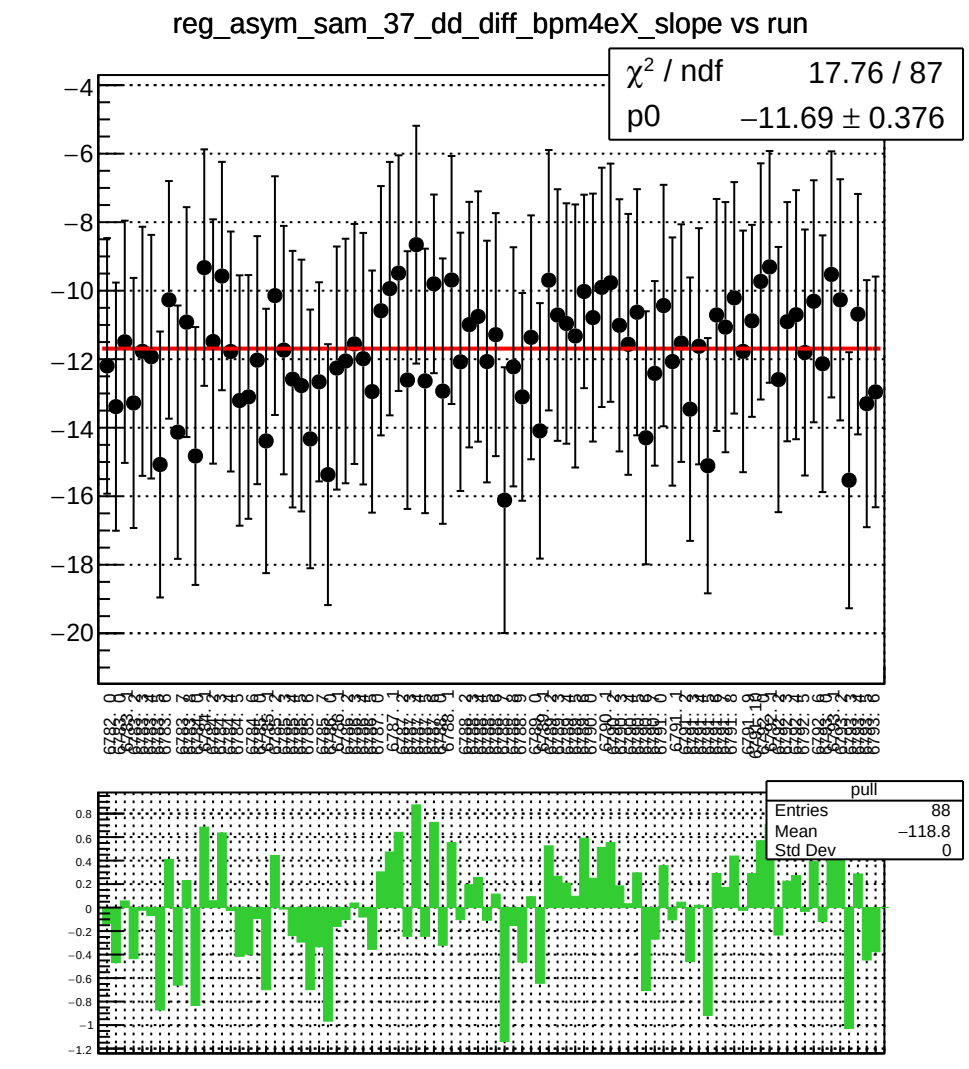

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.38 / 87
p0 0.3034 ± 0.03502
pull
Entries 88
Mean −2463
Std Dev 0
pull1D
Entries 88
Mean −0.001006
Std Dev 0.1645

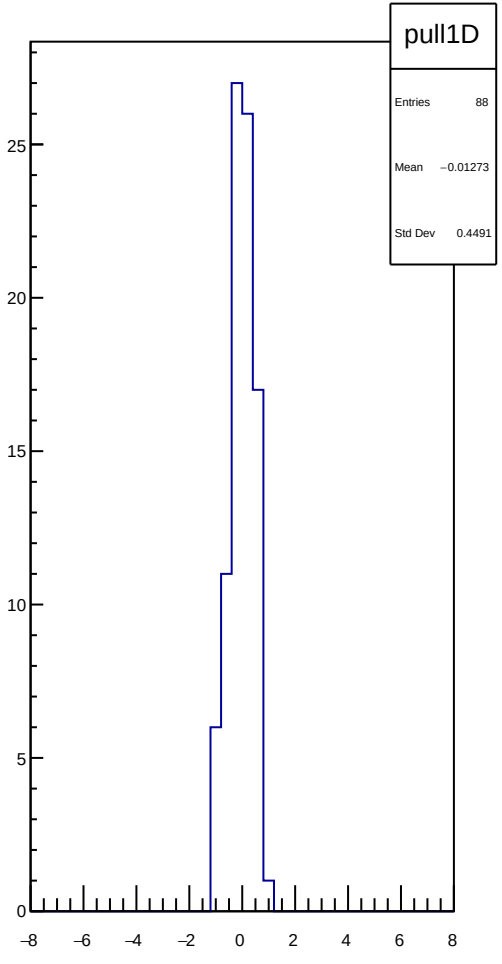

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.6 / 87
p0 −28.43 ± 0.4032
pull
Entries 88
Mean −1362
Std Dev 0

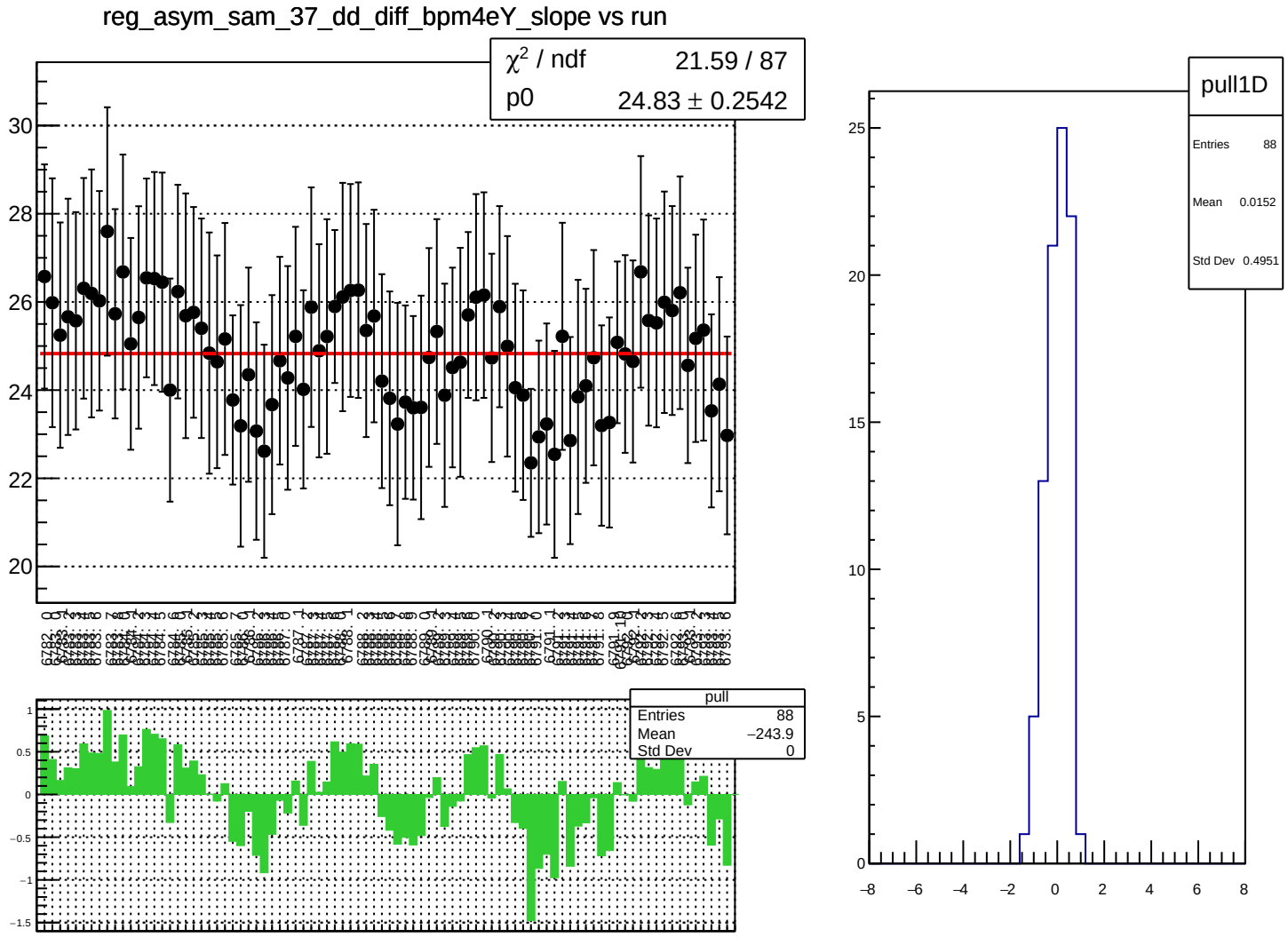

pull1D
Entries 88
Mean 0.001817
Std Dev 0.363

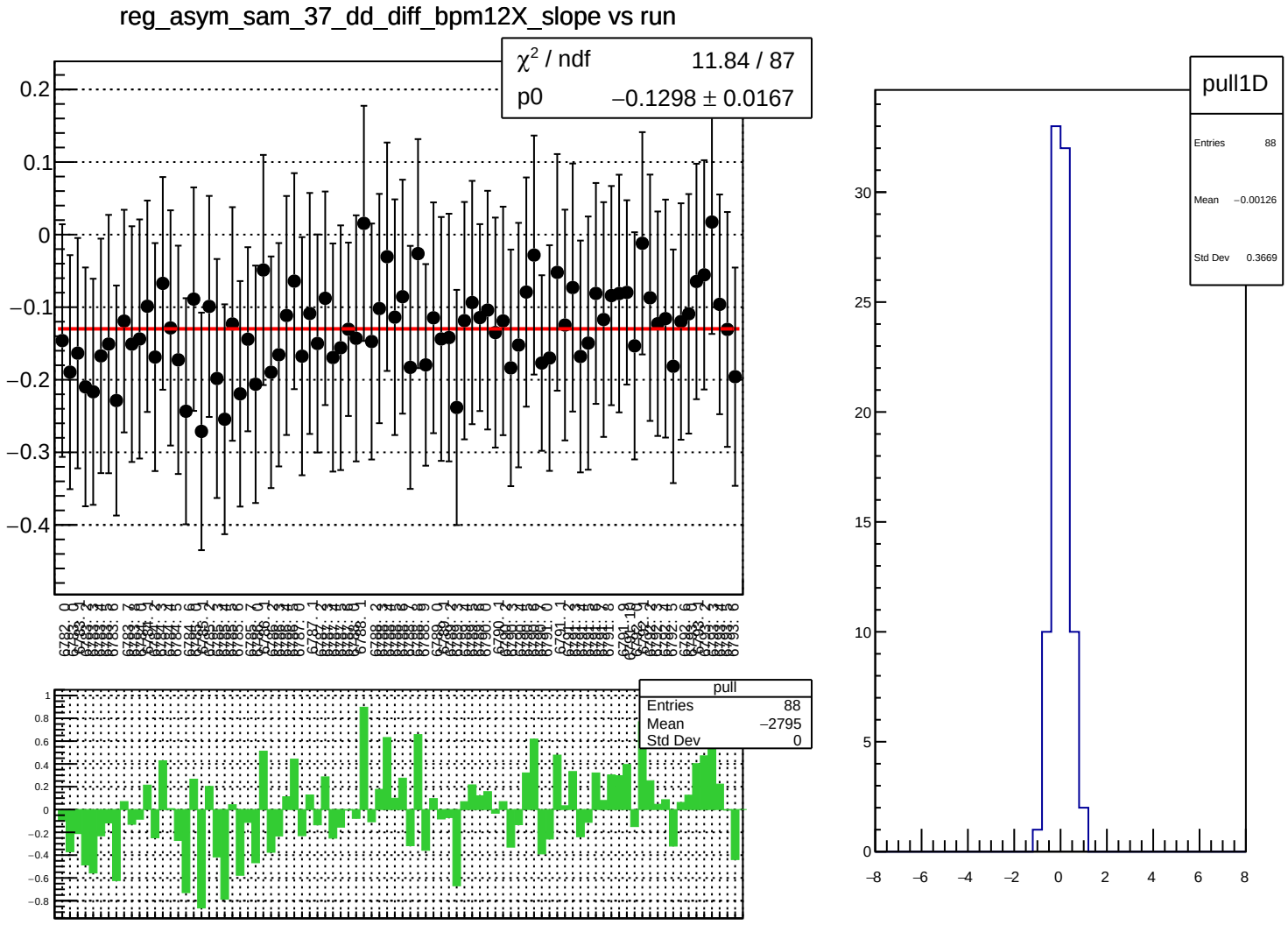

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.35 / 87
p0 −8.733 ± 0.1852
pull
Entries 88
Mean −157.3
Std Dev 0

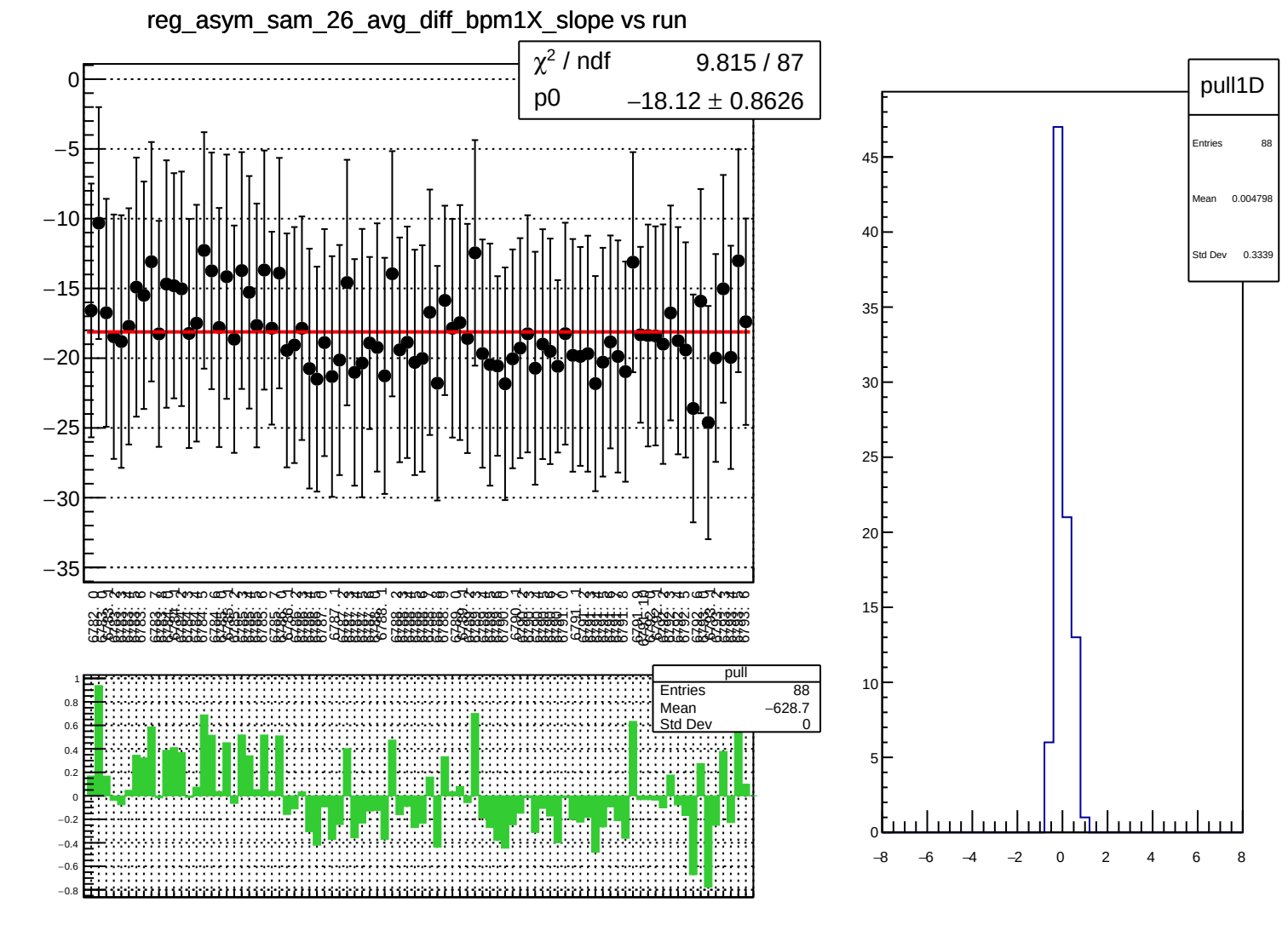

pull1D
Entries 88
Mean −0.02318
Std Dev 0.5255

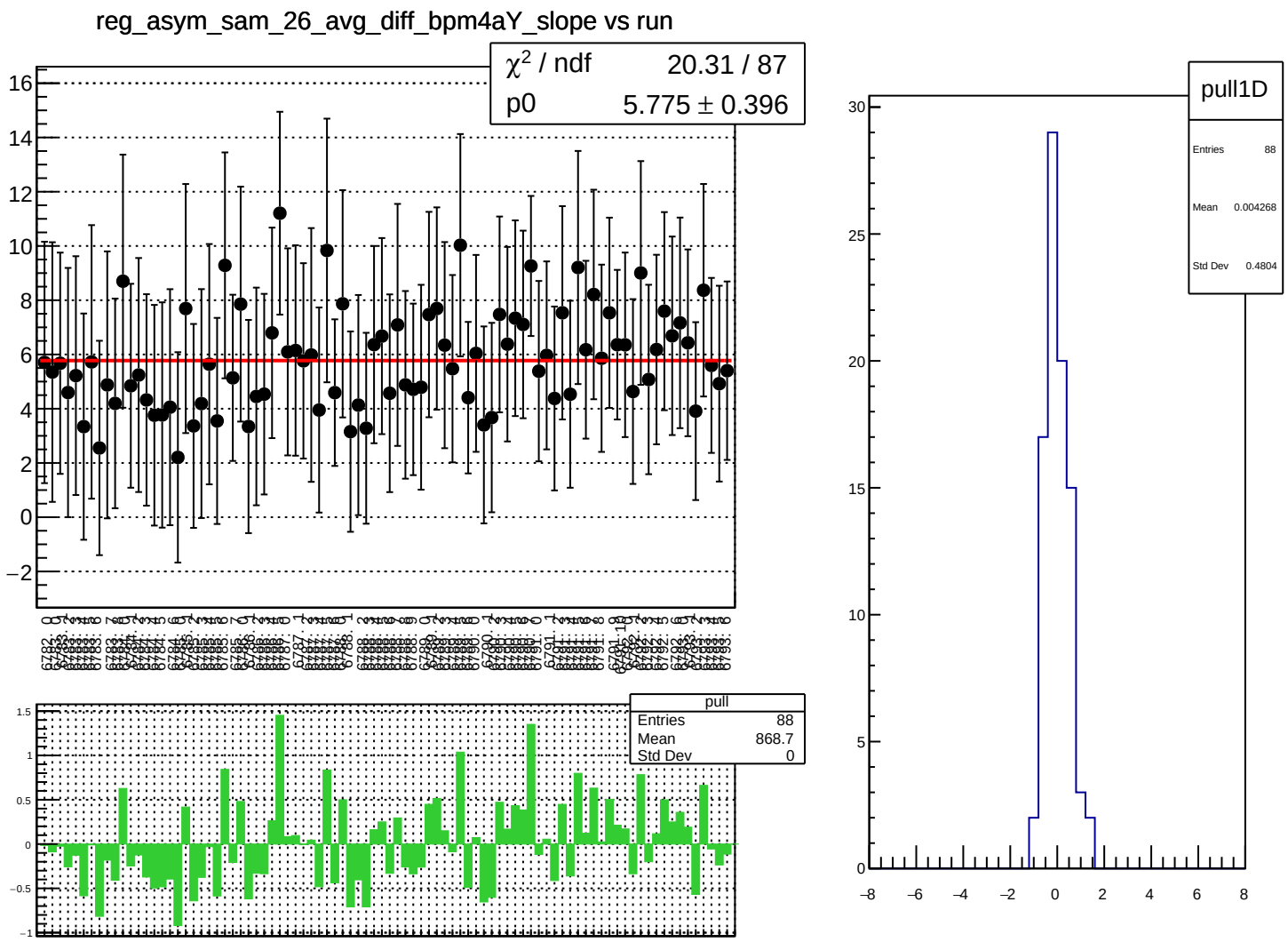

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.76 / 87
p0 −11.69 ± 0.376
pull
Entries 88
Mean −118.8
Std Dev 0

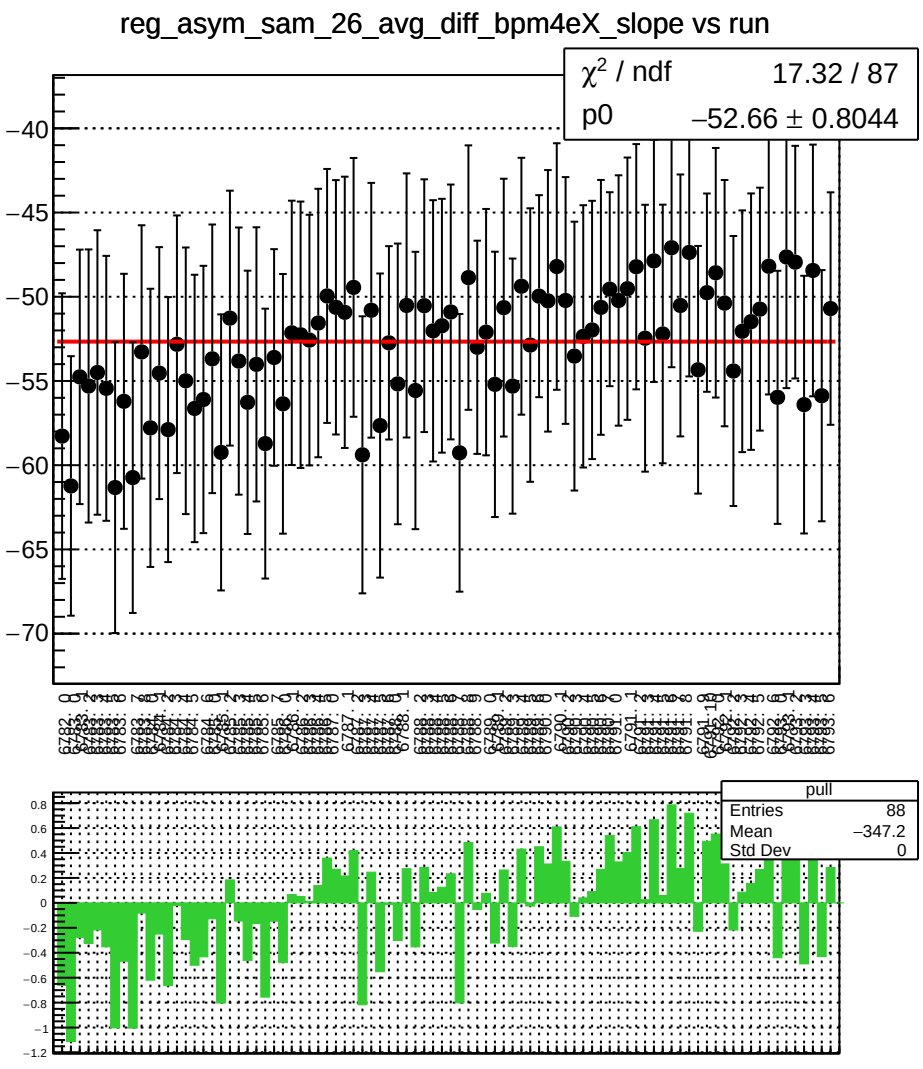

pull1D
Entries 88
Mean −0.01273
Std Dev 0.4491

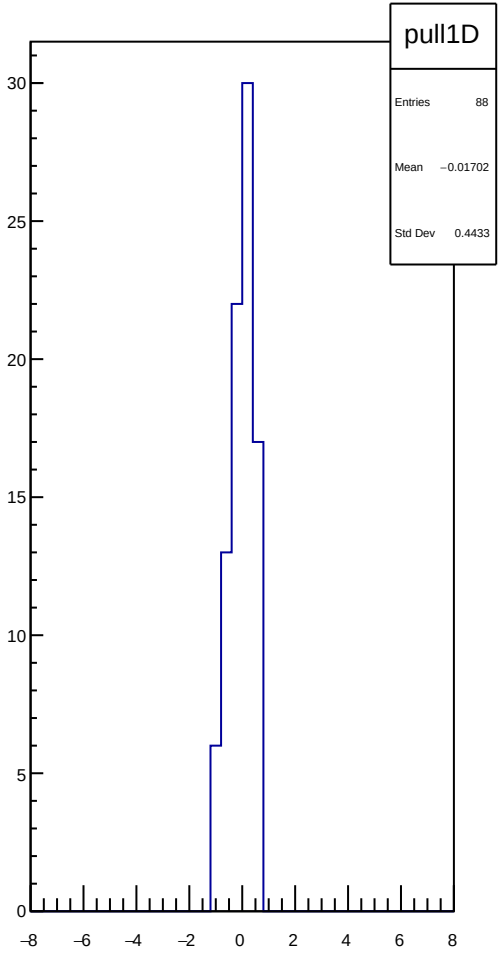

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.59 / 87
p0 24.83 ± 0.2542
pull
Entries 88
Mean −243.9
Std Dev 0
pull1D
Entries 88
Mean 0.0152
Std Dev 0.4951

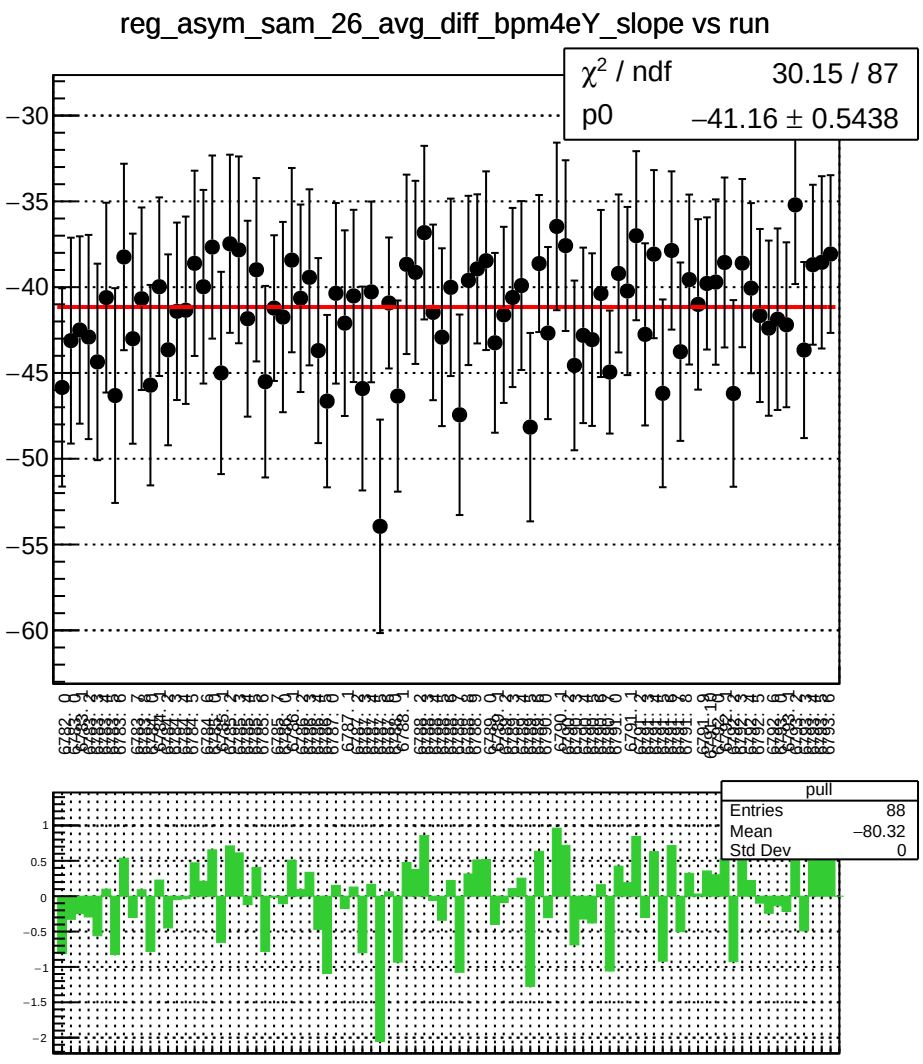

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.84 / 87
p0 −0.1298 ± 0.0167
pull
Entries 88
Mean −2795
Std Dev 0
pull1D
Entries 88
Mean −0.00126
Std Dev 0.3669

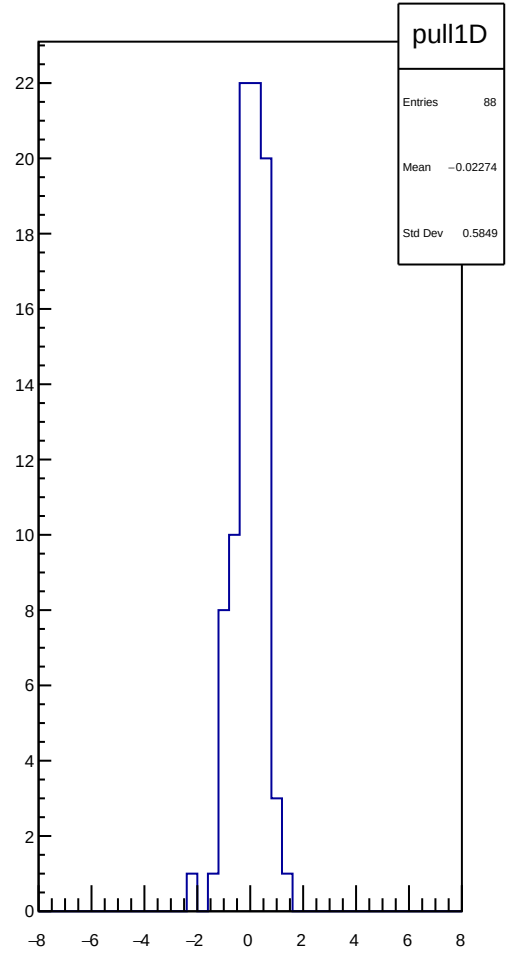

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 9.815 / 87
p0 −18.12 ± 0.8626
pull
Entries 88
Mean −628.7
Std Dev 0
pull1D
Entries 88
Mean 0.004798
Std Dev 0.3339

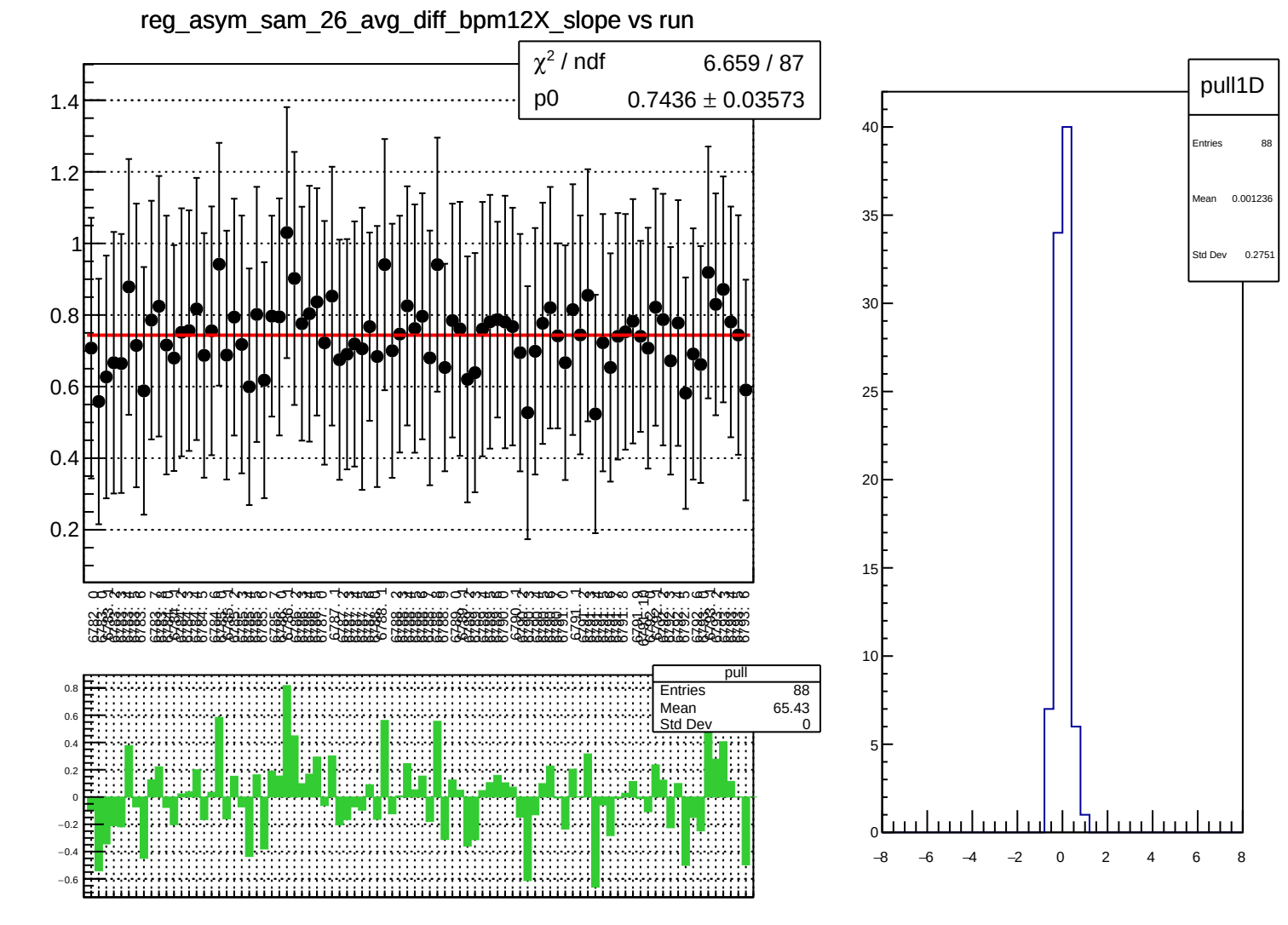

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.31 / 87
p0 5.775 ± 0.396
pull
Entries 88
Mean 868.7
Std Dev 0
pull1D
Entries 88
Mean 0.004268
Std Dev 0.4804

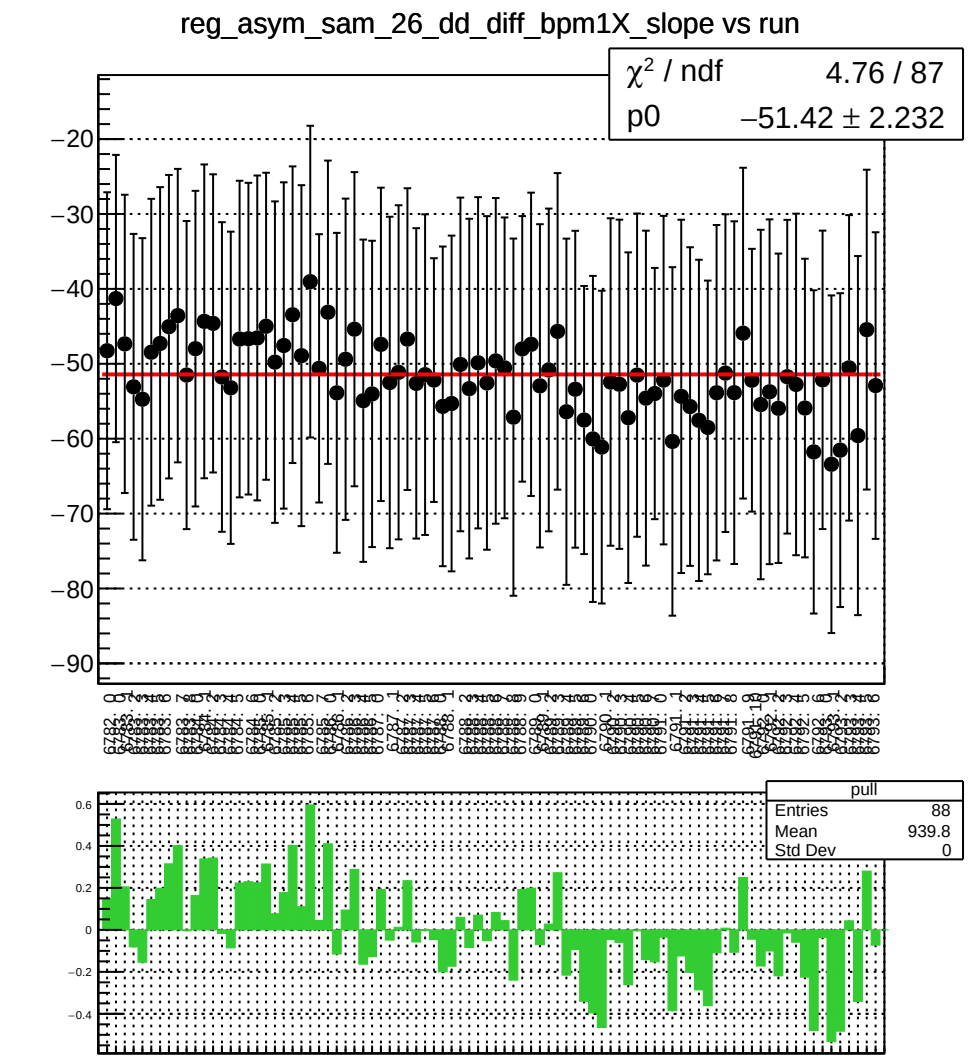

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.32 / 87
p0 −52.66 ± 0.8044
pull
Entries 88
Mean −347.2
Std Dev 0

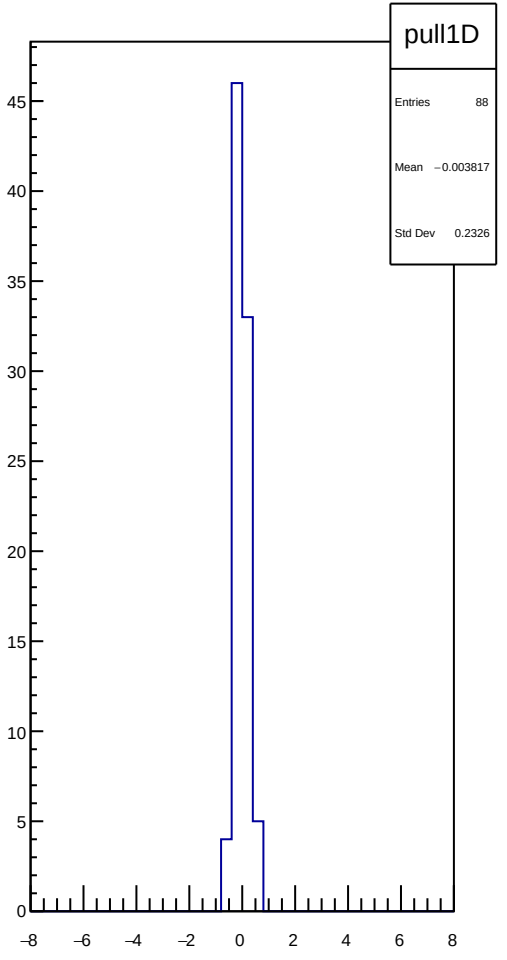

pull1D
Entries 88
Mean −0.01702
Std Dev 0.4433

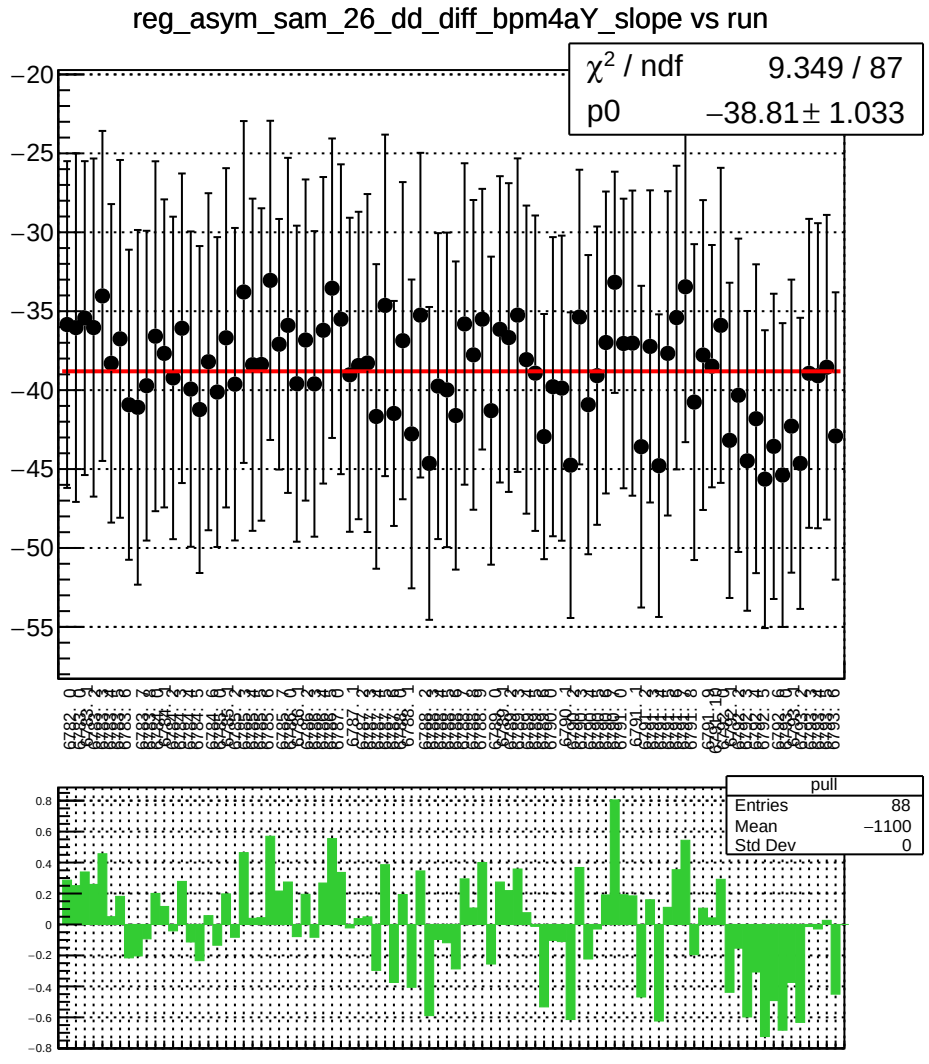

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.15 / 87
p0 −41.16 ± 0.5438
pull
Entries 88
Mean −80.32
Std Dev 0

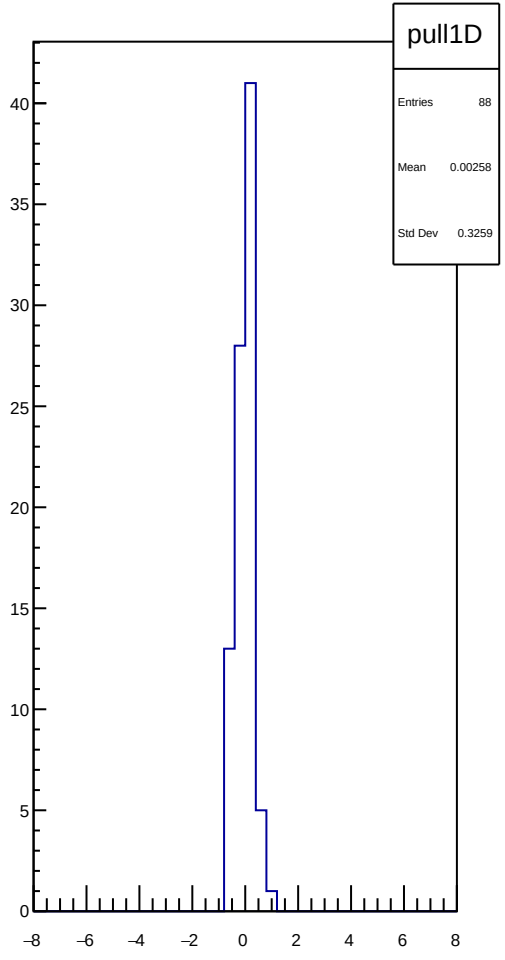

pull1D
Entries 88
Mean −0.02274
Std Dev 0.5849

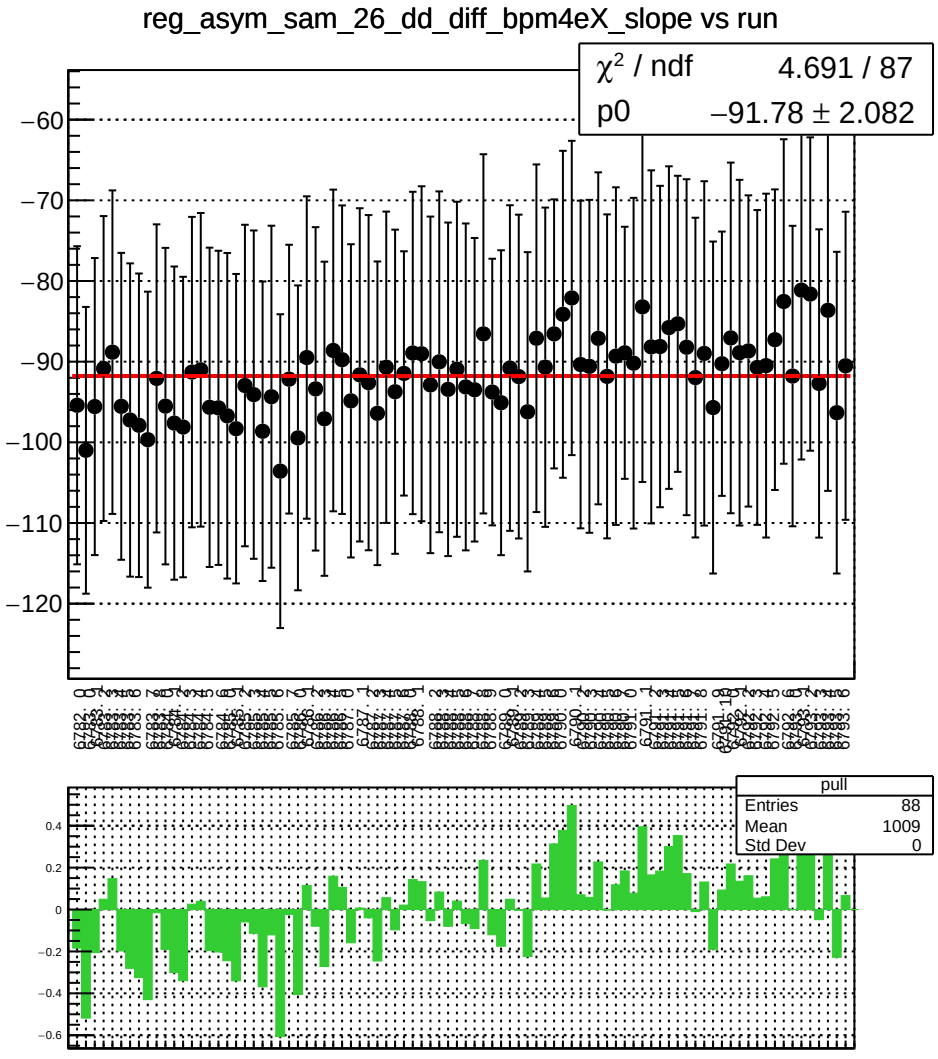

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 6.659 / 87
p0 0.7436 ± 0.03573
pull
Entries 88
Mean 65.43
Std Dev 0
pull1D
Entries 88
Mean 0.001236
Std Dev 0.2751

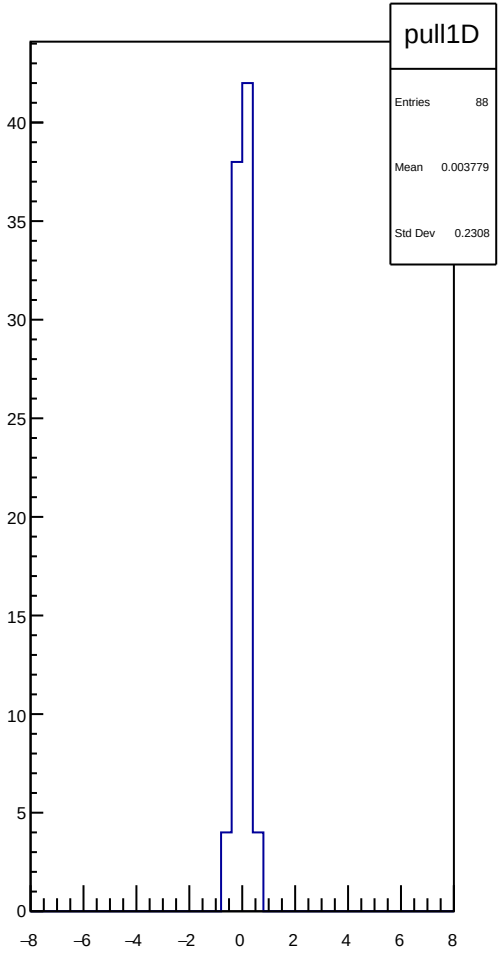

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.76 / 87
p0 −51.42 ± 2.232
pull
Entries 88
Mean 939.8
Std Dev 0

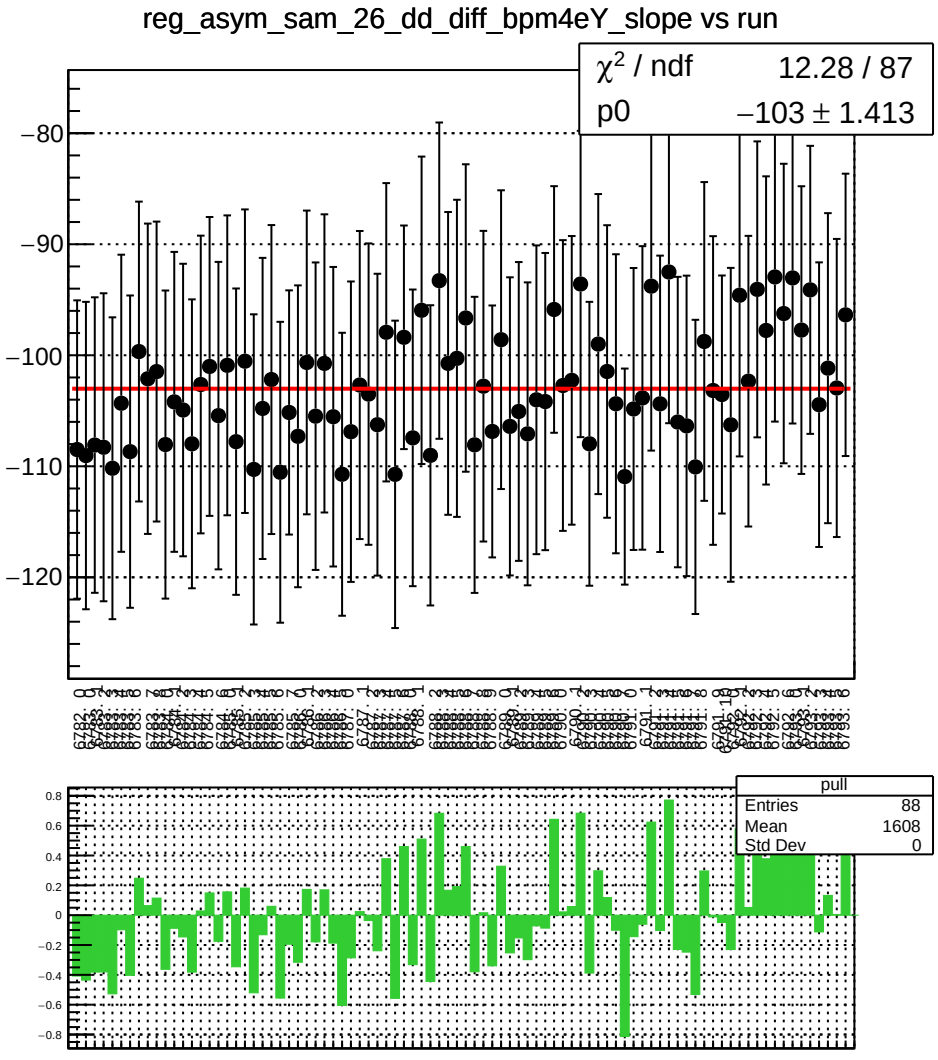

pull1D
Entries 88
Mean −0.003817
Std Dev 0.2326

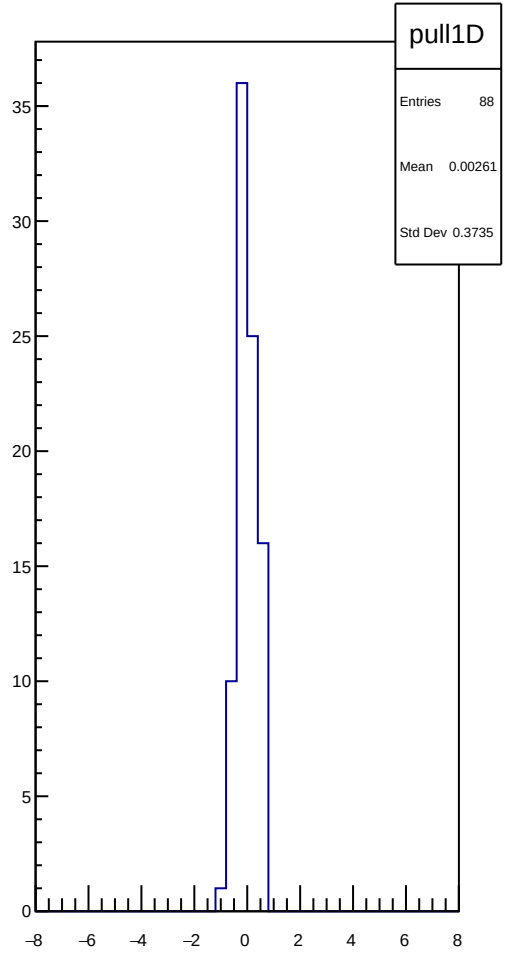

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.349 / 87
p0 −38.81 ± 1.033
pull
Entries 88
Mean −1100
Std Dev 0

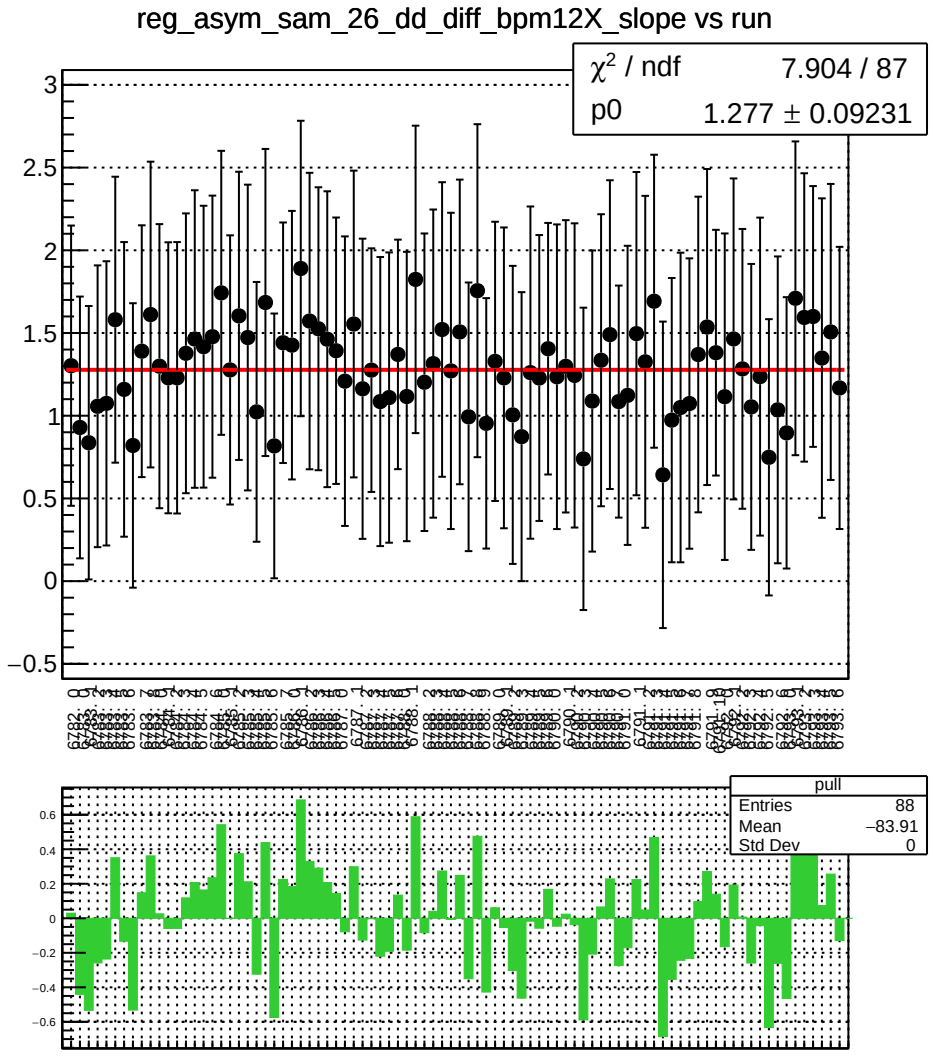

pull1D
Entries 88
Mean 0.00258
Std Dev 0.3259

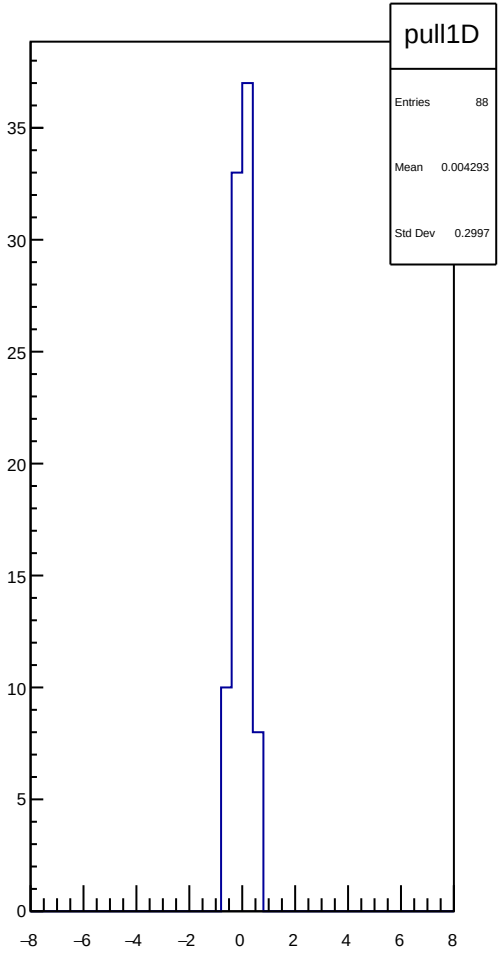

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.691 / 87
p0 −91.78 ± 2.082
pull
Entries 88
Mean 1009
Std Dev 0

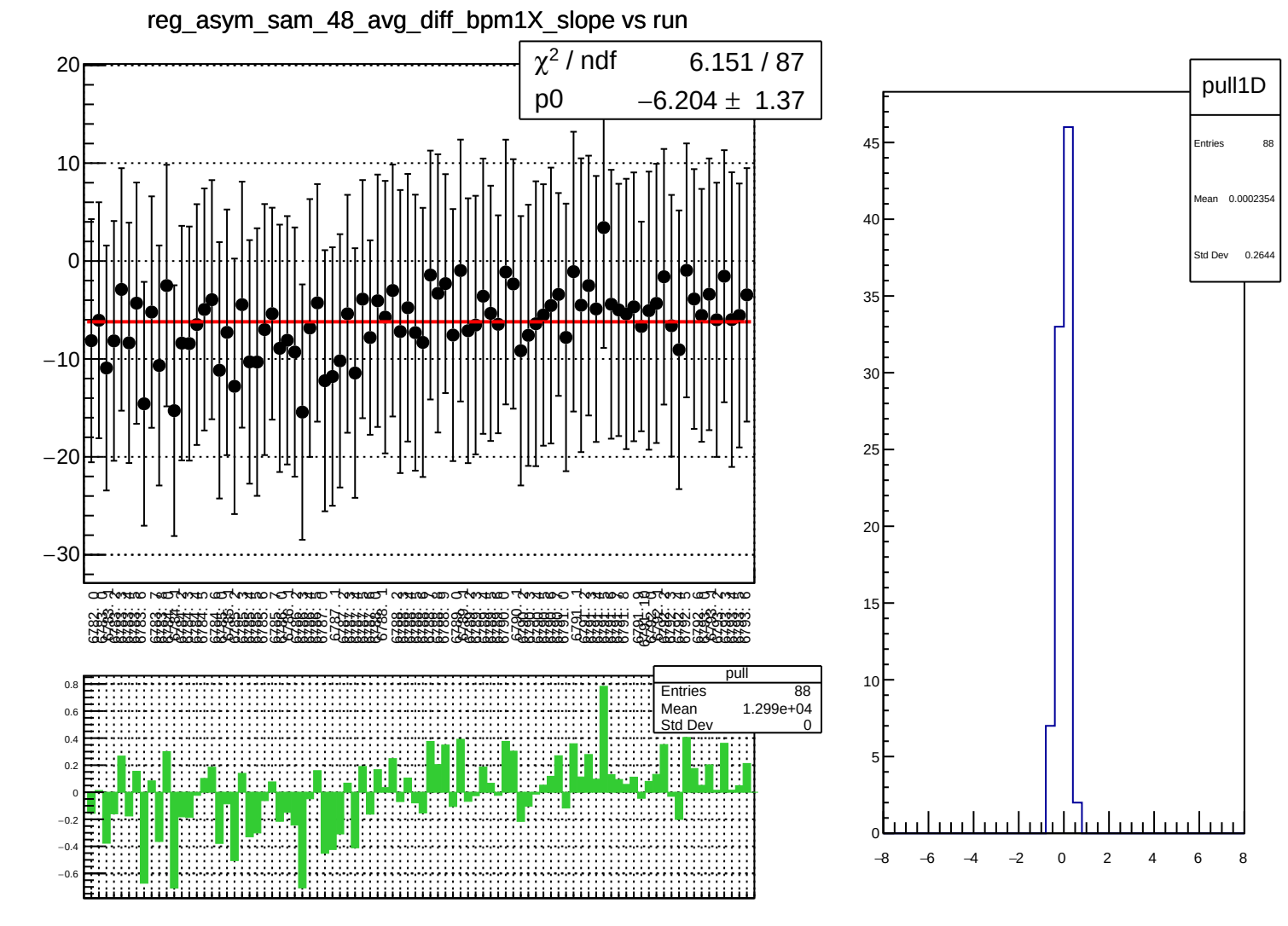

pull1D
Entries 88
Mean 0.003779
Std Dev 0.2308

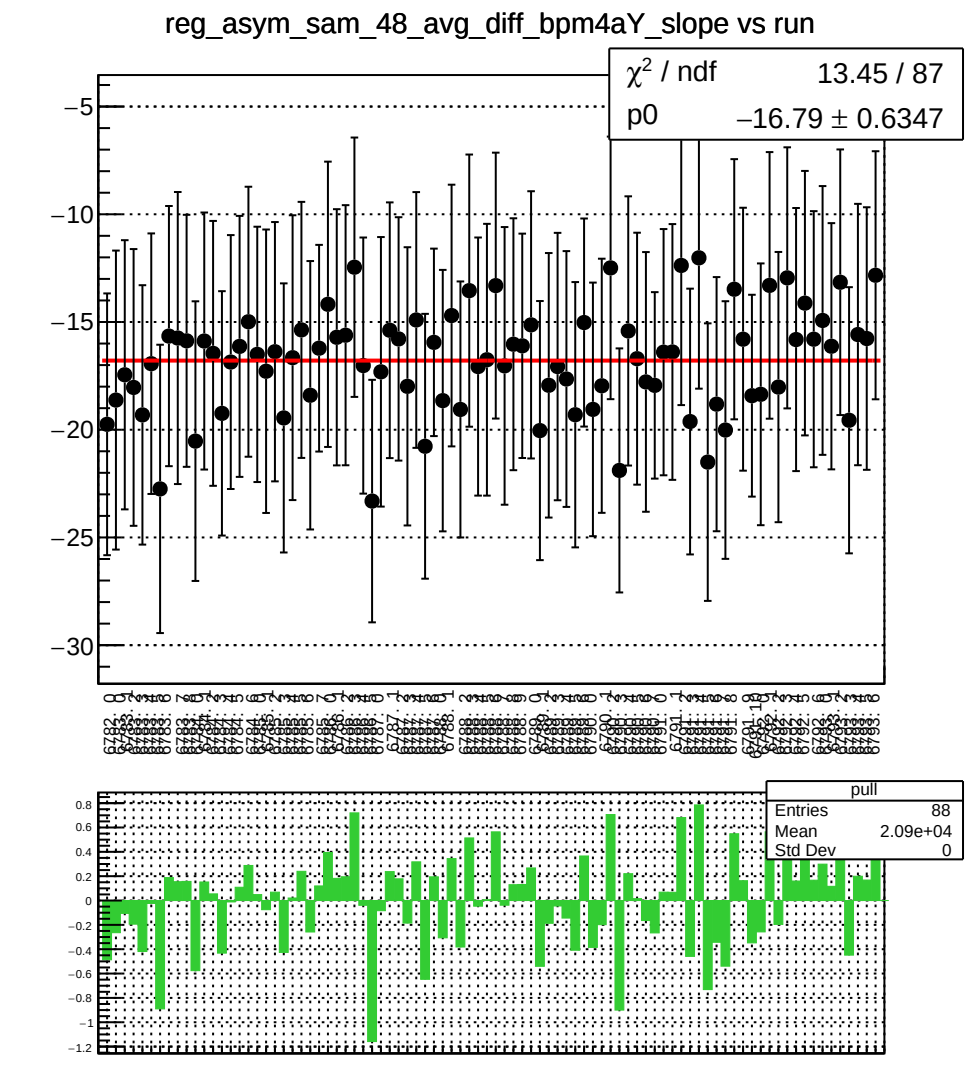

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.28 / 87
p0 −103 ± 1.413
−80
−90
−100
−110
−120
pull
Entries 88
Mean 1608
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

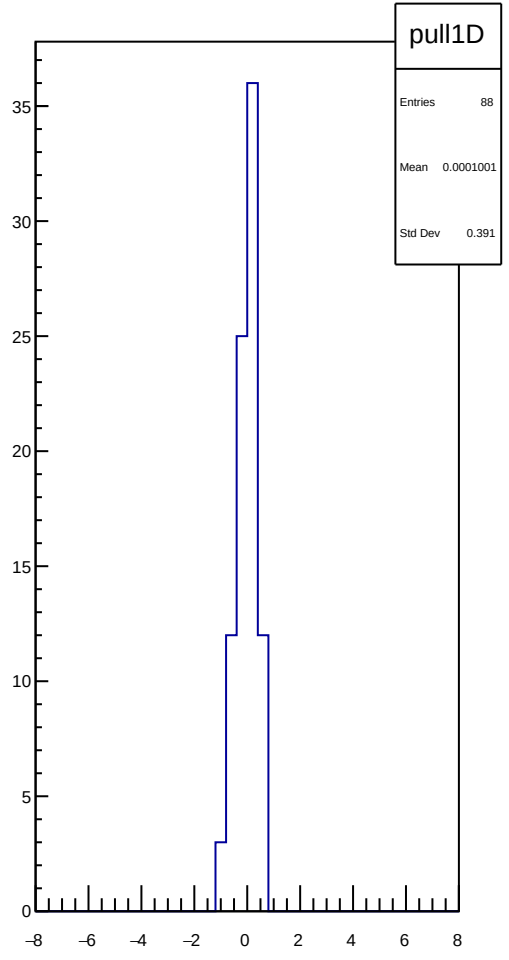

pull1D
Entries 88
Mean 0.00261
Std Dev 0.3735
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

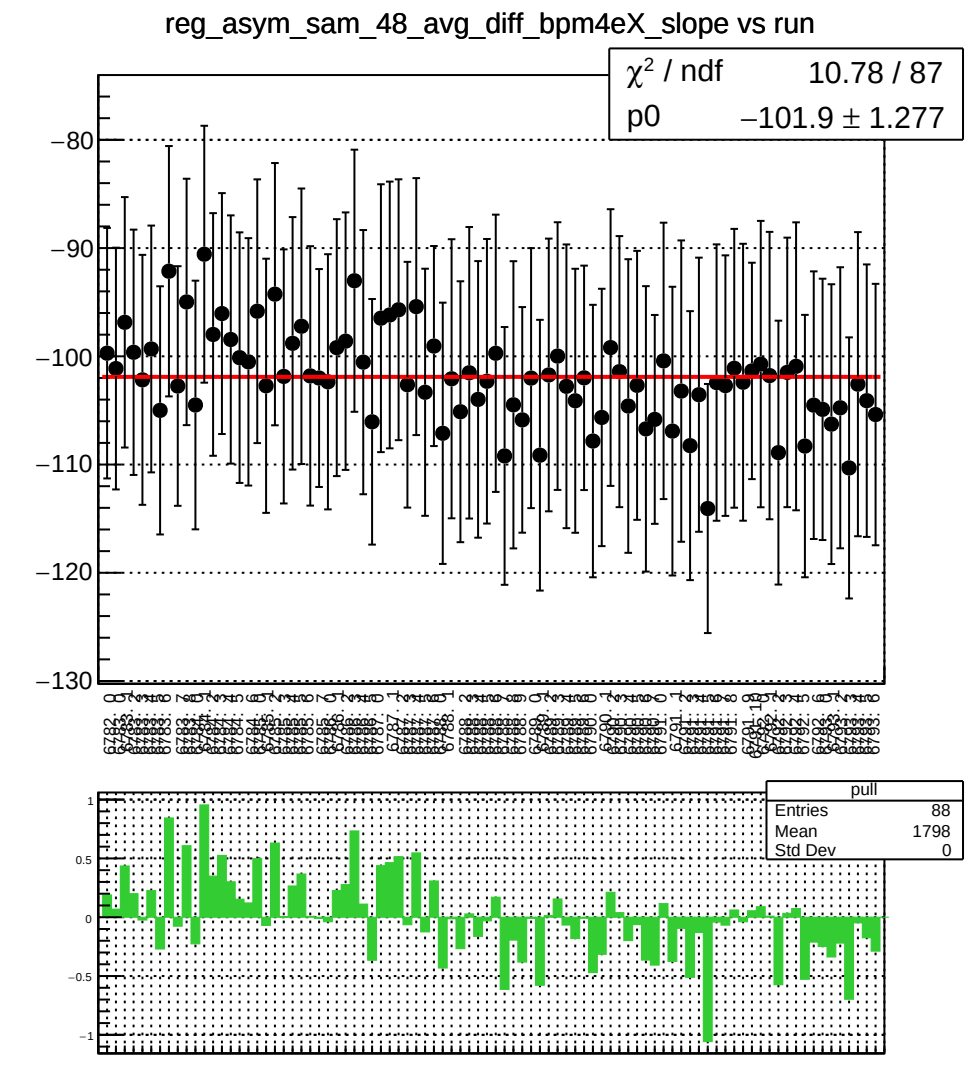

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.904 / 87
p0 1.277 ± 0.09231
pull
Entries 88
Mean −83.91
Std Dev 0

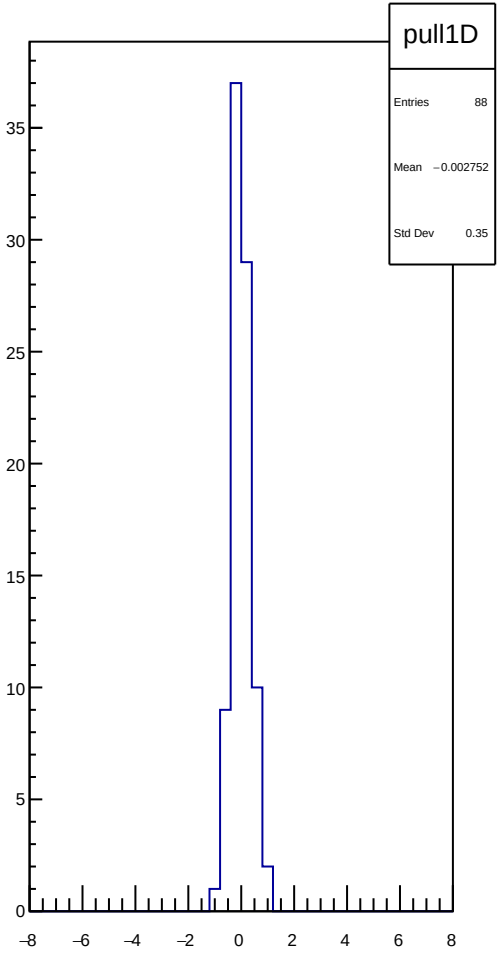

pull1D
Entries 88
Mean 0.004293
Std Dev 0.2997

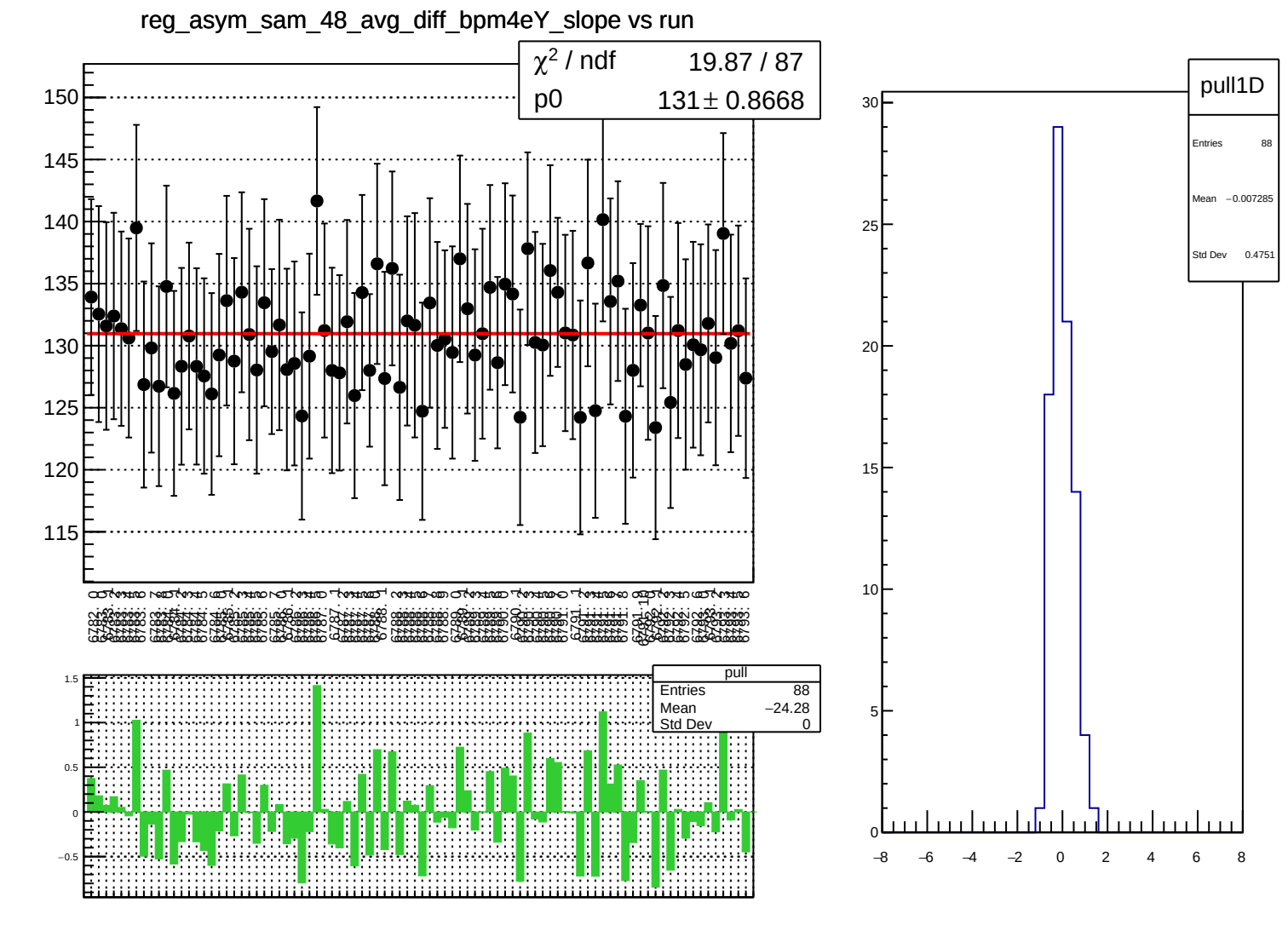

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 6.151 / 87
p0 −6.204 ± 1.37
pull
Entries 88
Mean 1.299e+04
Std Dev 0
pull1D
Entries 88
Mean 0.0002354
Std Dev 0.2644

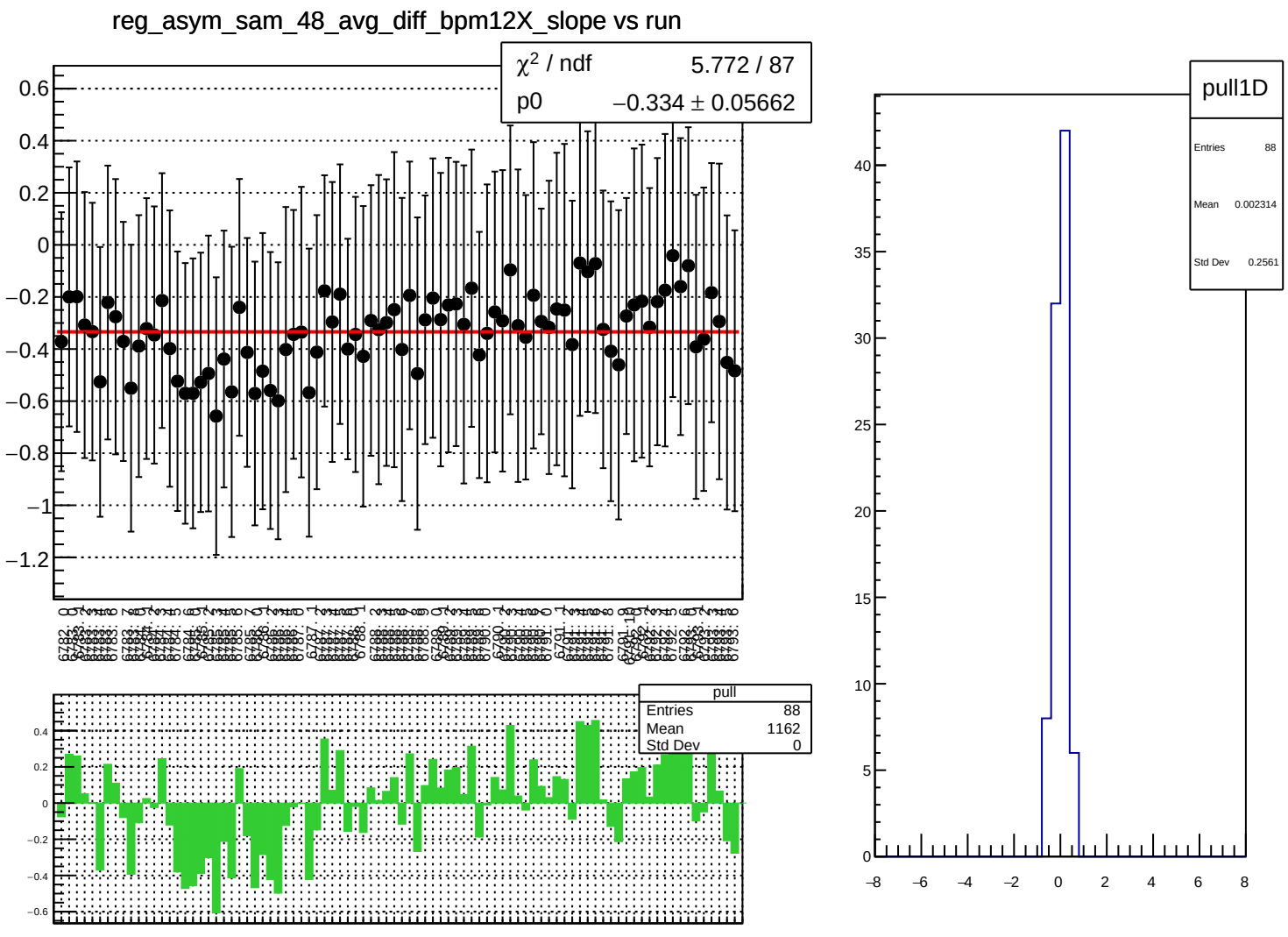

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.45 / 87
p0 −16.79 ± 0.6347
pull
Entries 88
Mean 2.09e+04
Std Dev 0

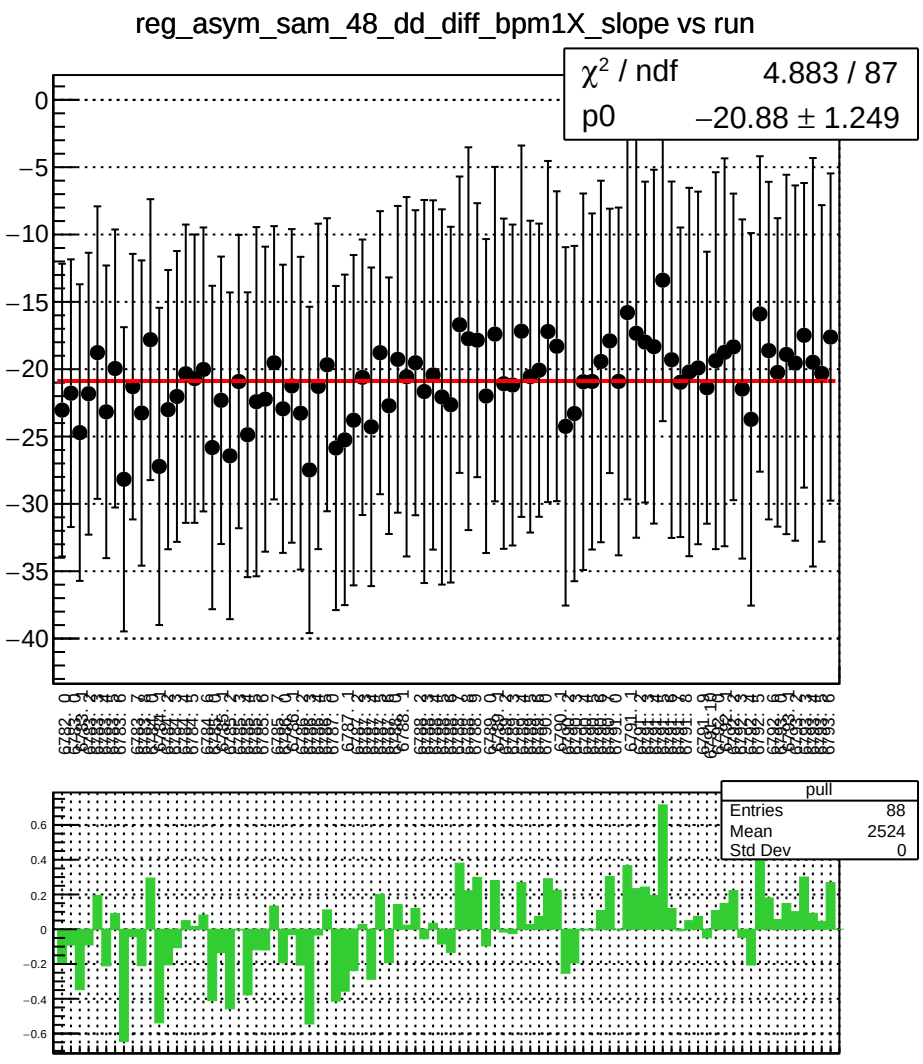

pull1D
Entries 88
Mean 0.0001001
Std Dev 0.391

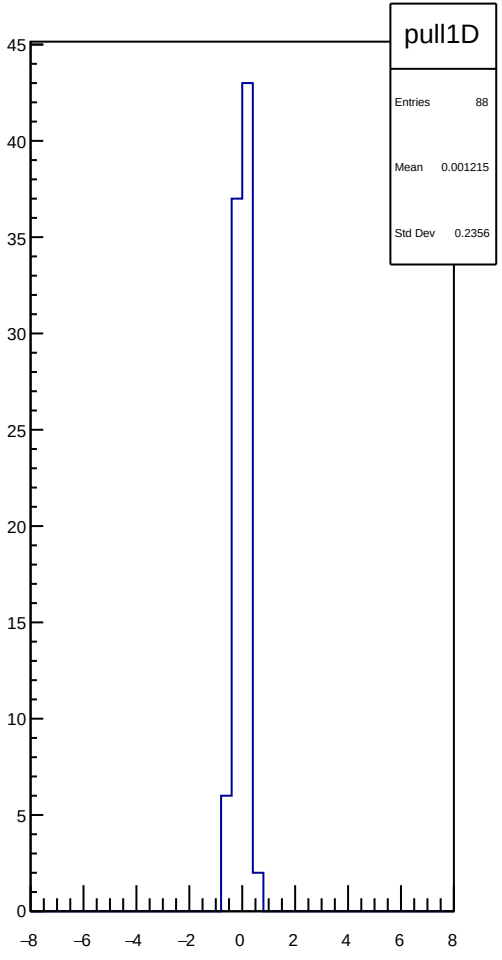

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.78 / 87
p0 −101.9 ± 1.277
pull
Entries 88
Mean 1798
Std Dev 0

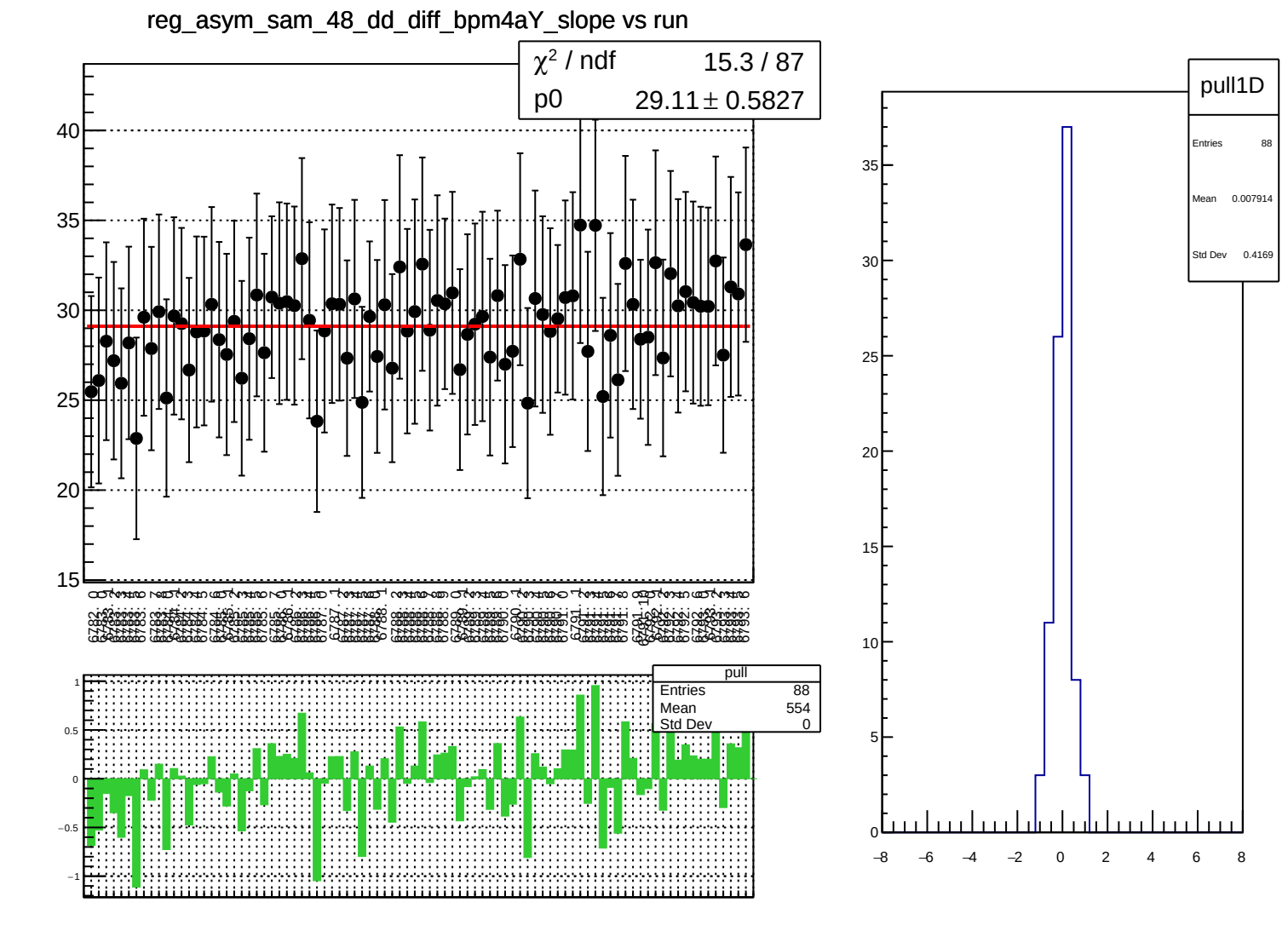

pull1D
Entries 88
Mean −0.002752
Std Dev 0.35

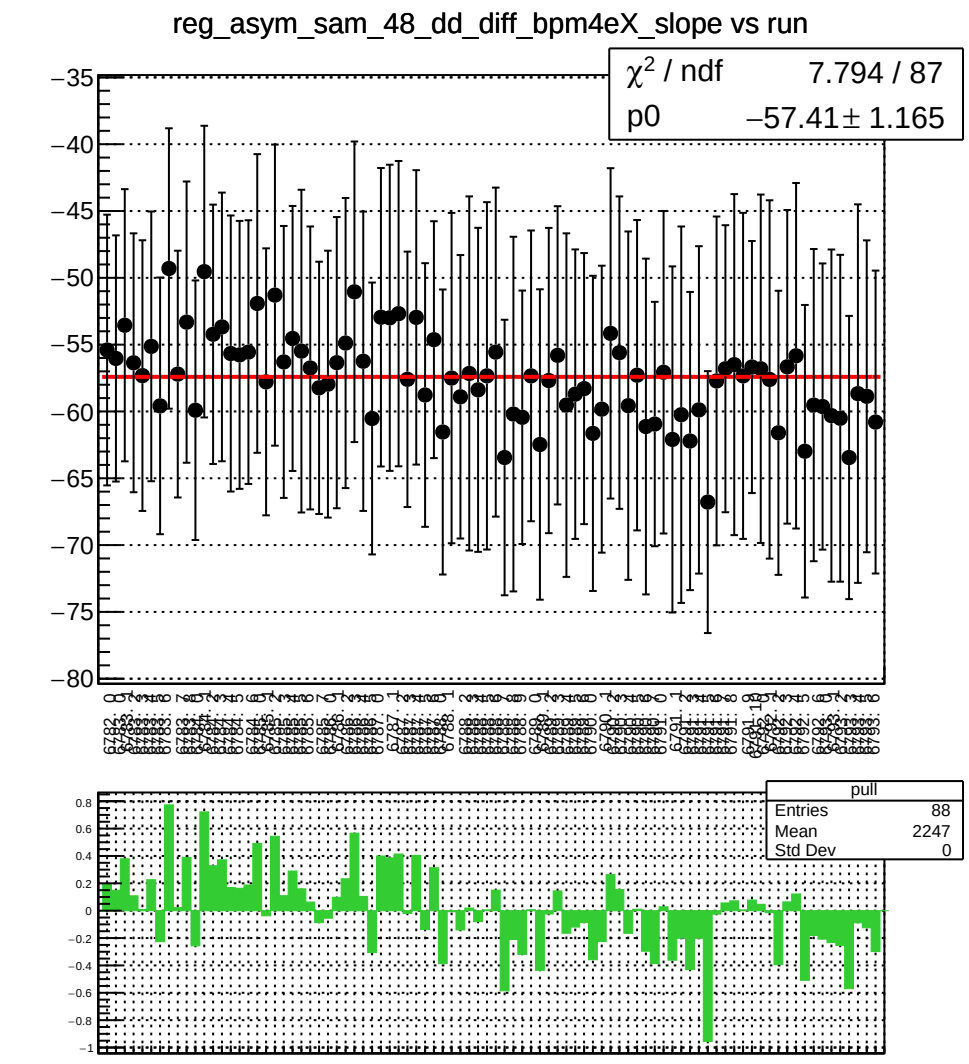

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.87 / 87
p0 131 ± 0.8668
150
145
140
135
130
125
120
115
pull
Entries 88
Mean −24.28
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 88
Mean −0.007285
Std Dev 0.4751
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

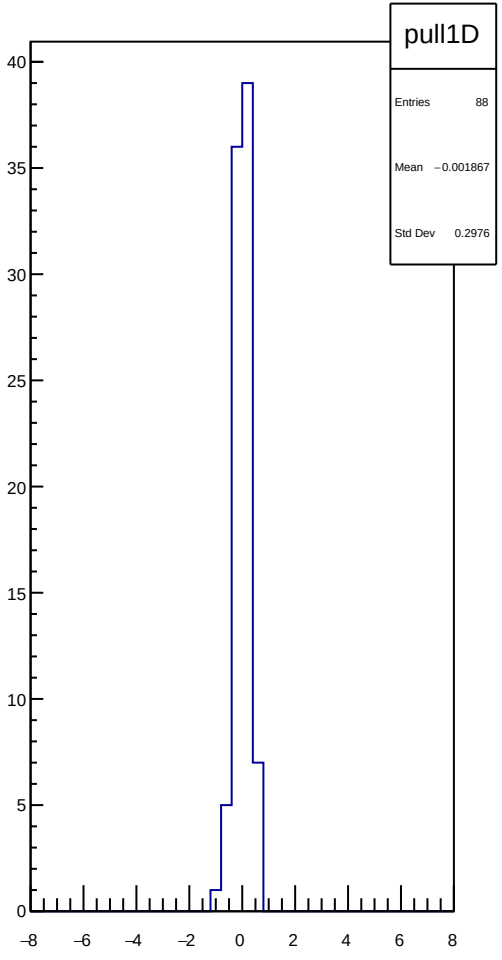

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 5.772 / 87
p0 −0.334 ± 0.05662
pull
Entries 88
Mean 1162
Std Dev 0
pull1D
Entries 88
Mean 0.002314
Std Dev 0.2561

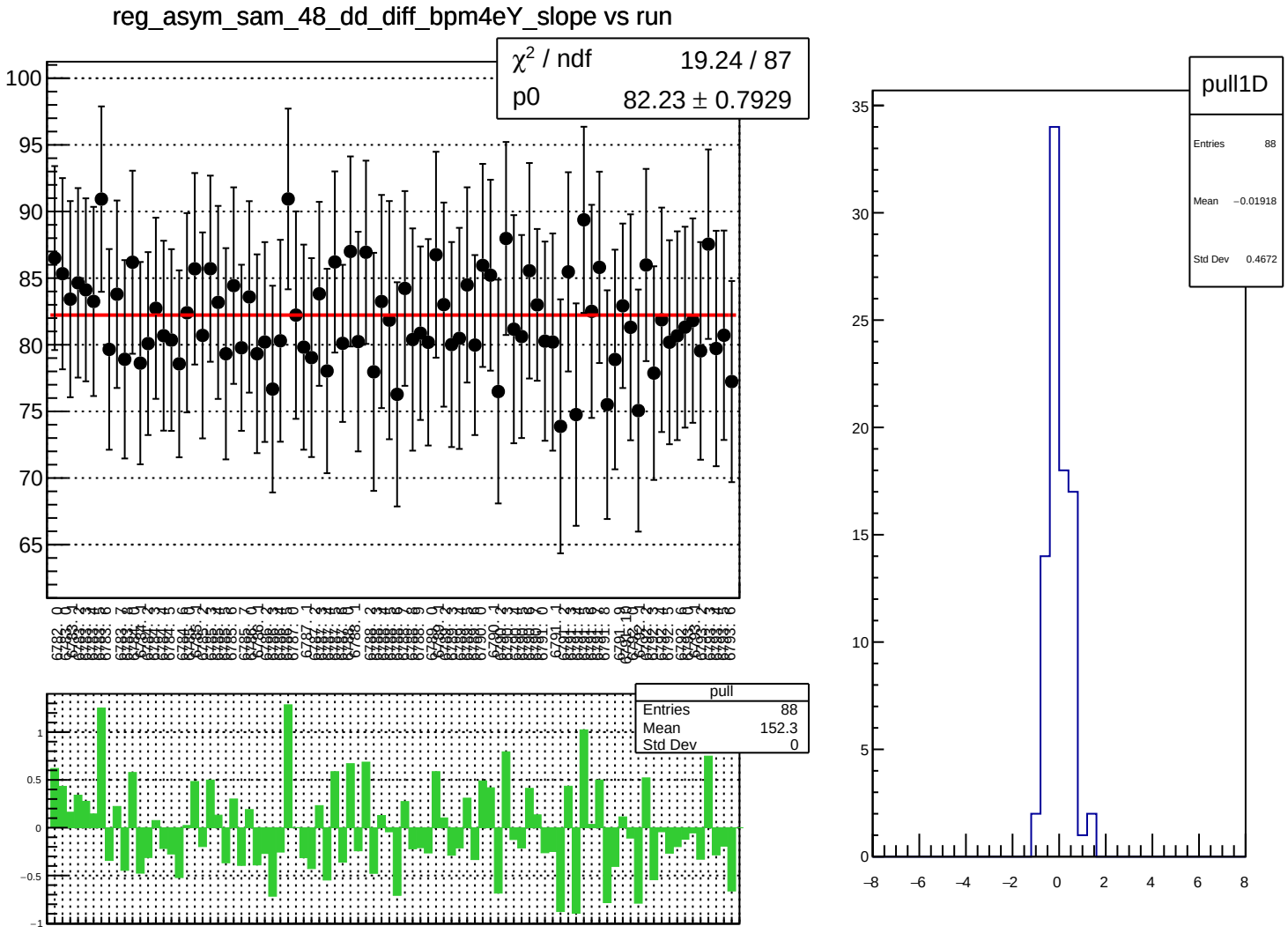

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.883 / 87
p0 −20.88 ± 1.249
pull
Entries 88
Mean 2524
Std Dev 0

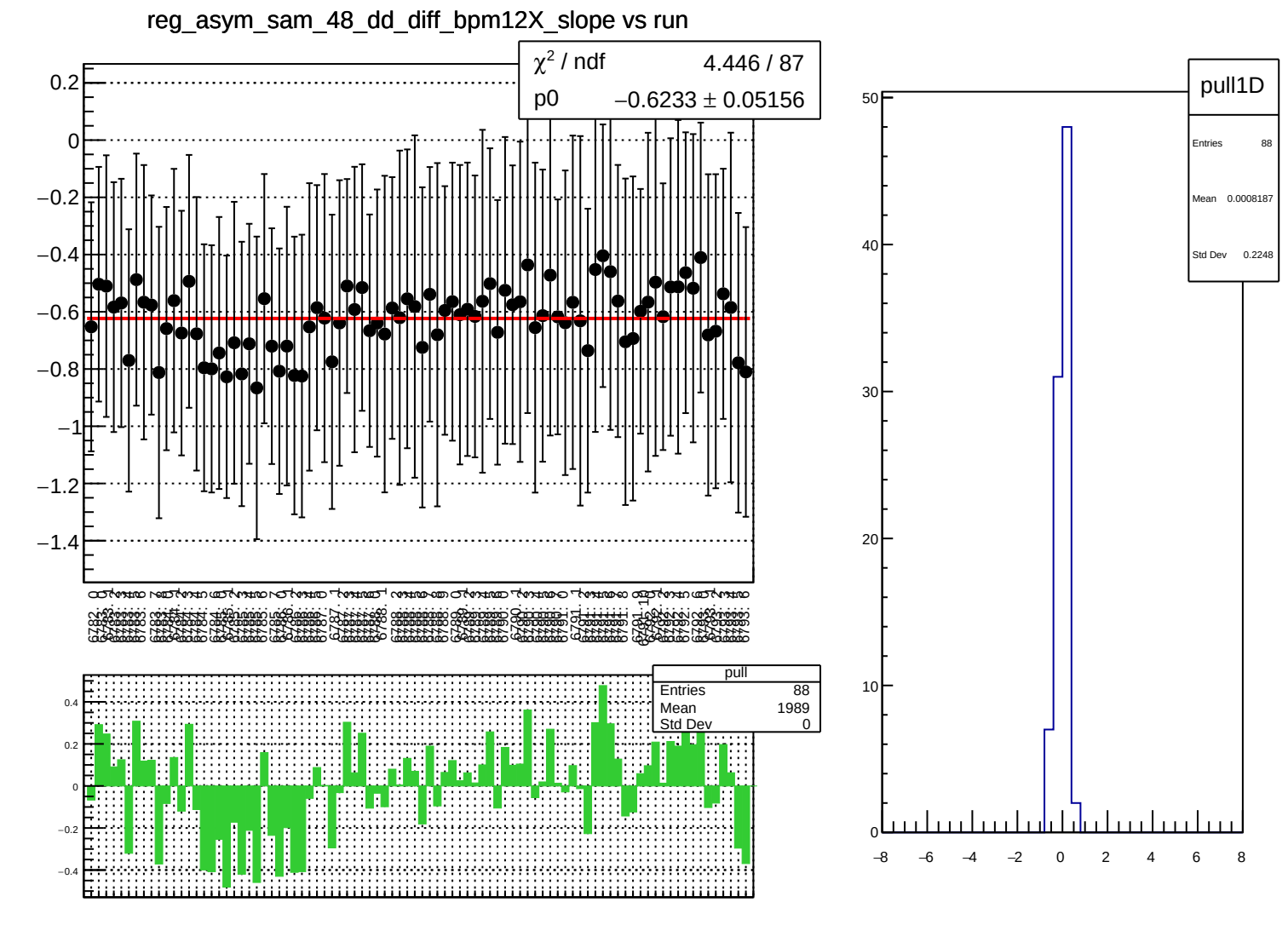

pull1D
Entries 88
Mean 0.001215
Std Dev 0.2356

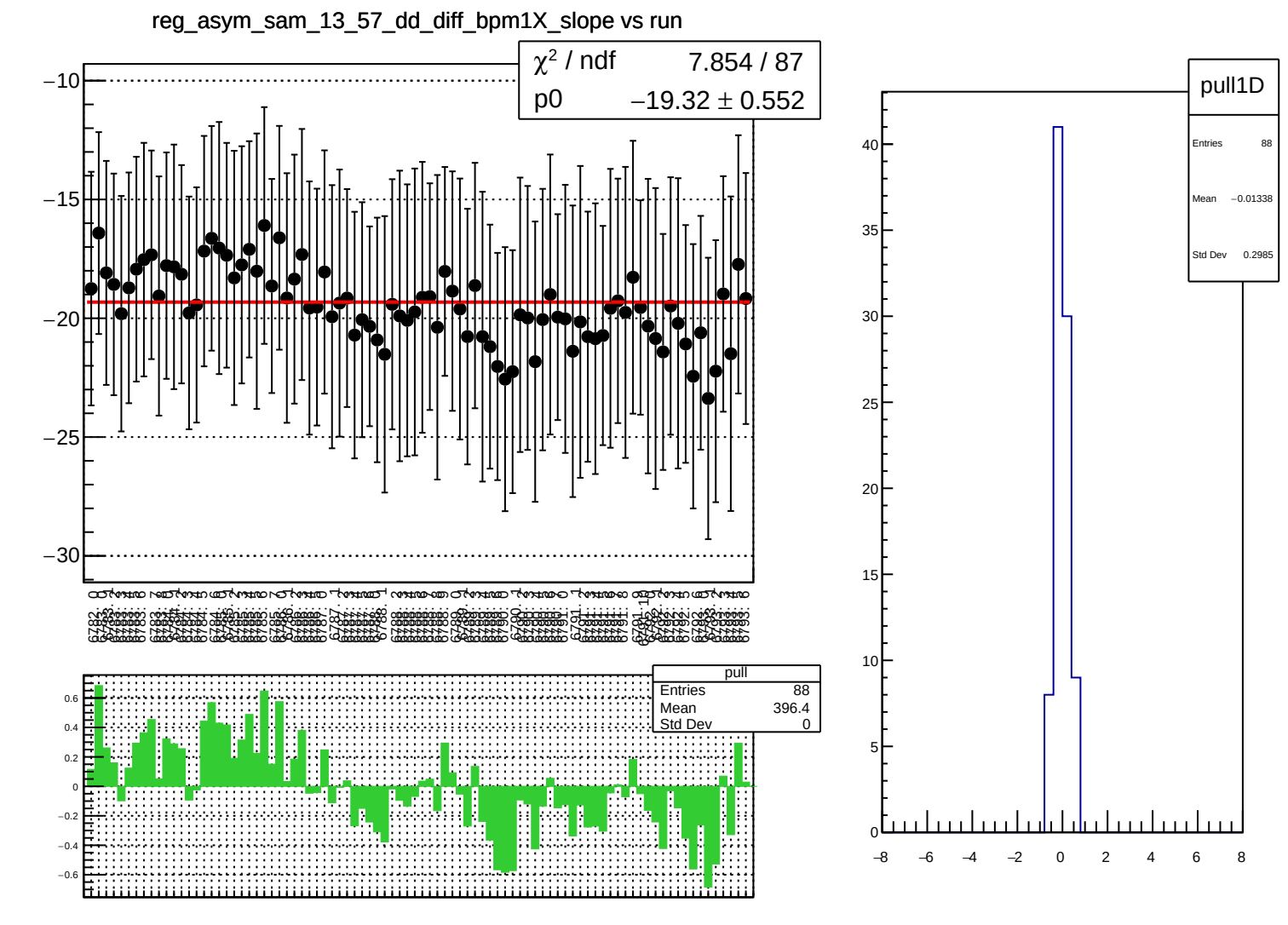

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.3 / 87
p0 29.11 ± 0.5827
pull
Entries 88
Mean 554
Std Dev 0
pull1D
Entries 88
Mean 0.007914
Std Dev 0.4169

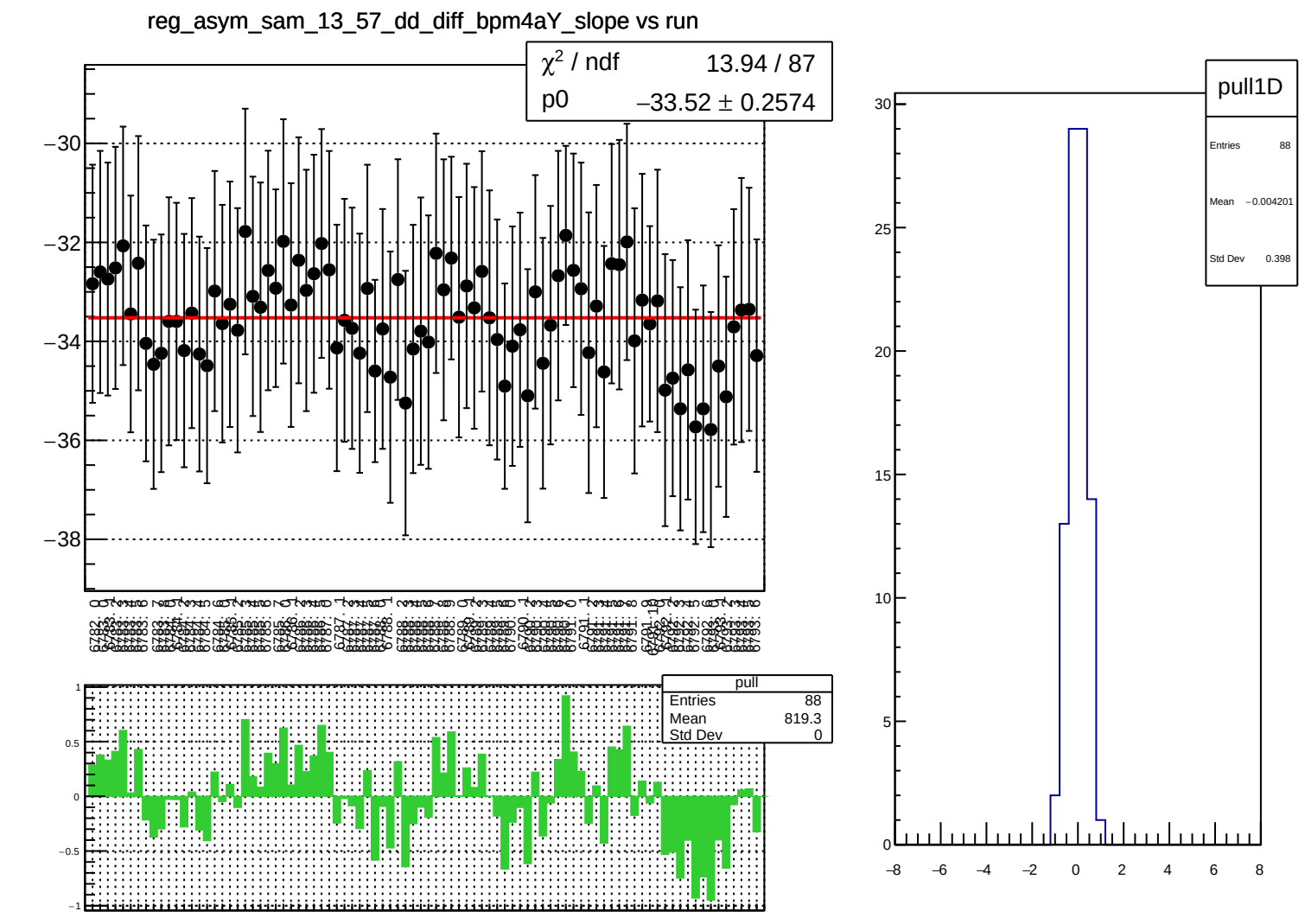

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.794 / 87
p0 −57.41 ± 1.165
pull
Entries 88
Mean 2247
Std Dev 0

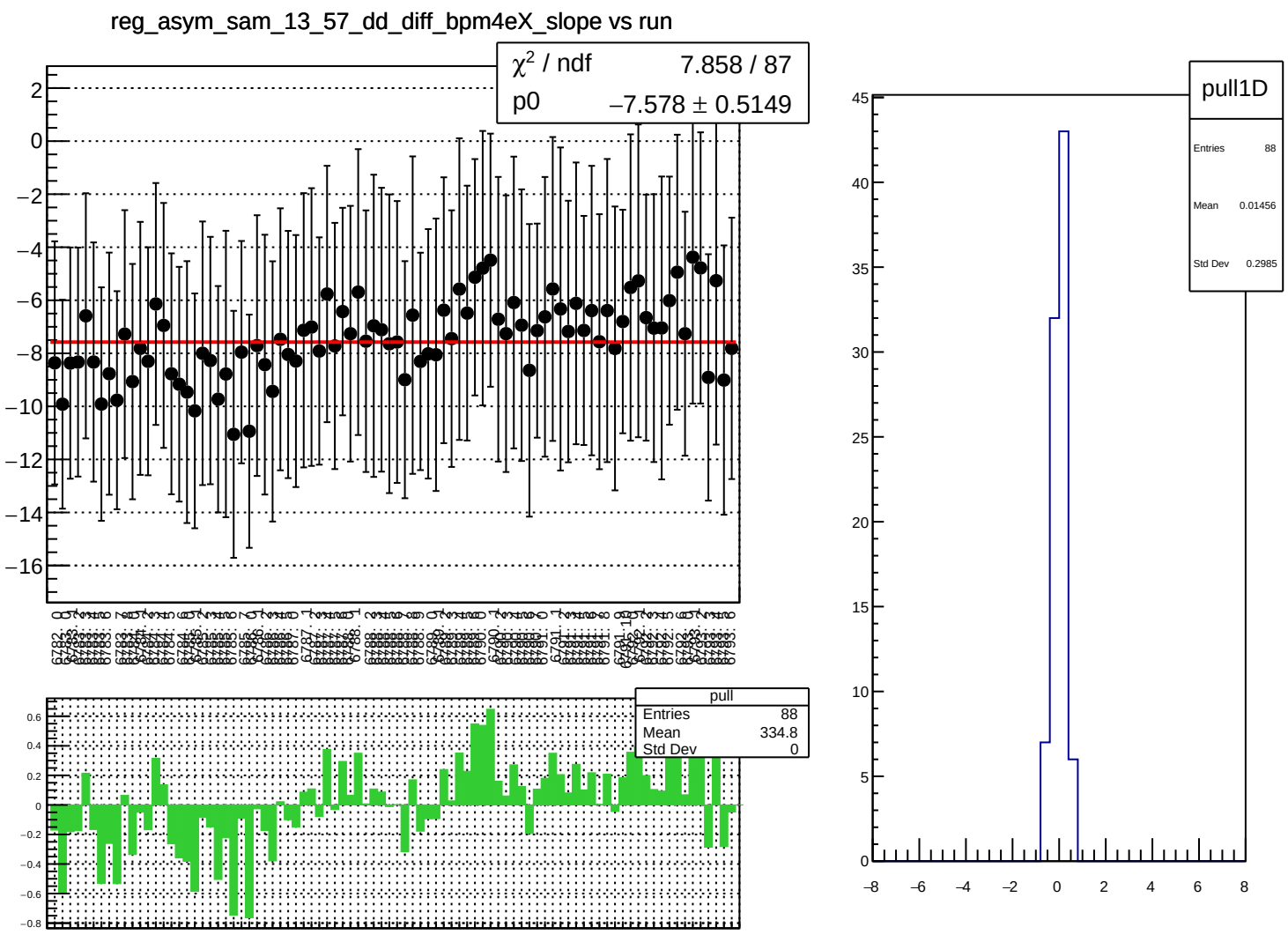

pull1D
Entries 88
Mean −0.001867
Std Dev 0.2976

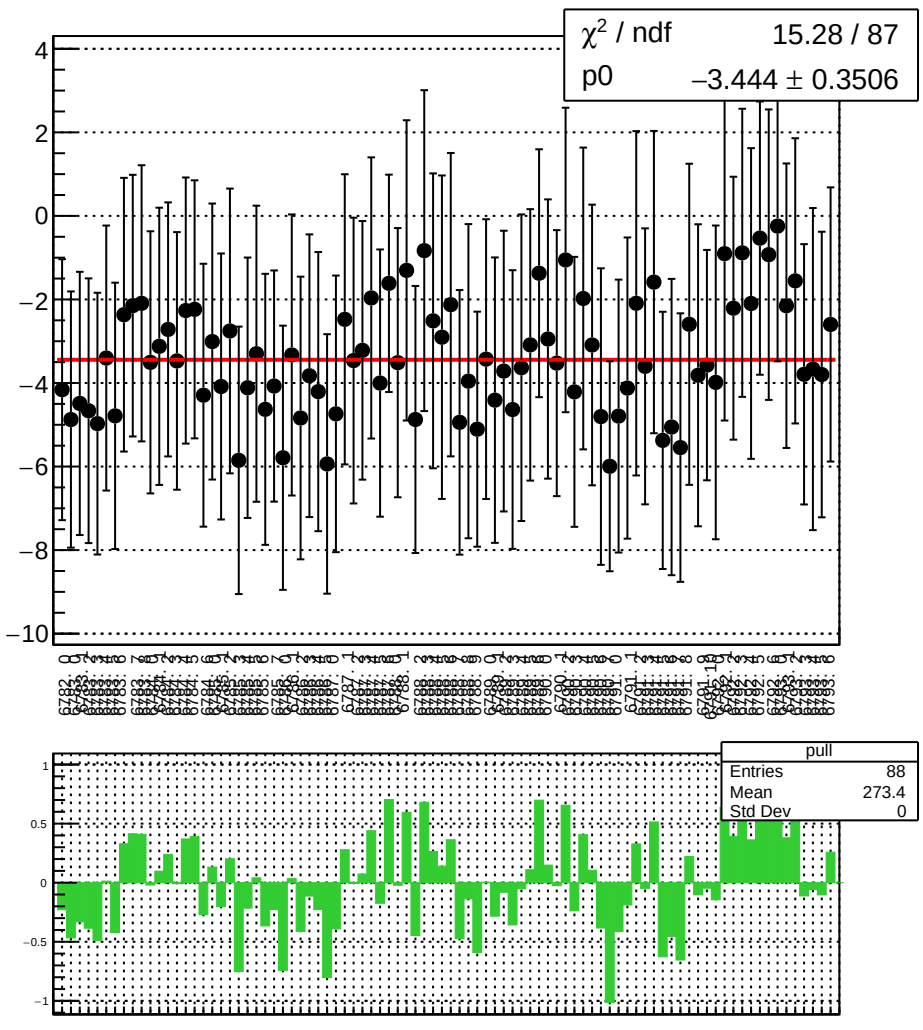

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.24 / 87
p0 82.23 ± 0.7929
pull
Entries 88
Mean 152.3
Std Dev 0
pull1D
Entries 88
Mean −0.01918
Std Dev 0.4672

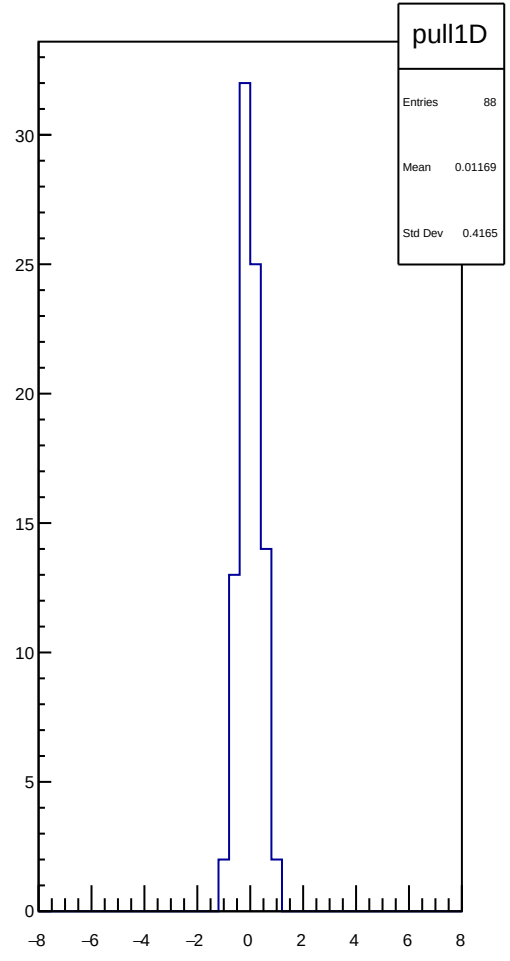

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.446 / 87
p0 −0.6233 ± 0.05156
pull
Entries 88
Mean 1989
Std Dev 0
pull1D
Entries 88
Mean 0.0008187
Std Dev 0.2248

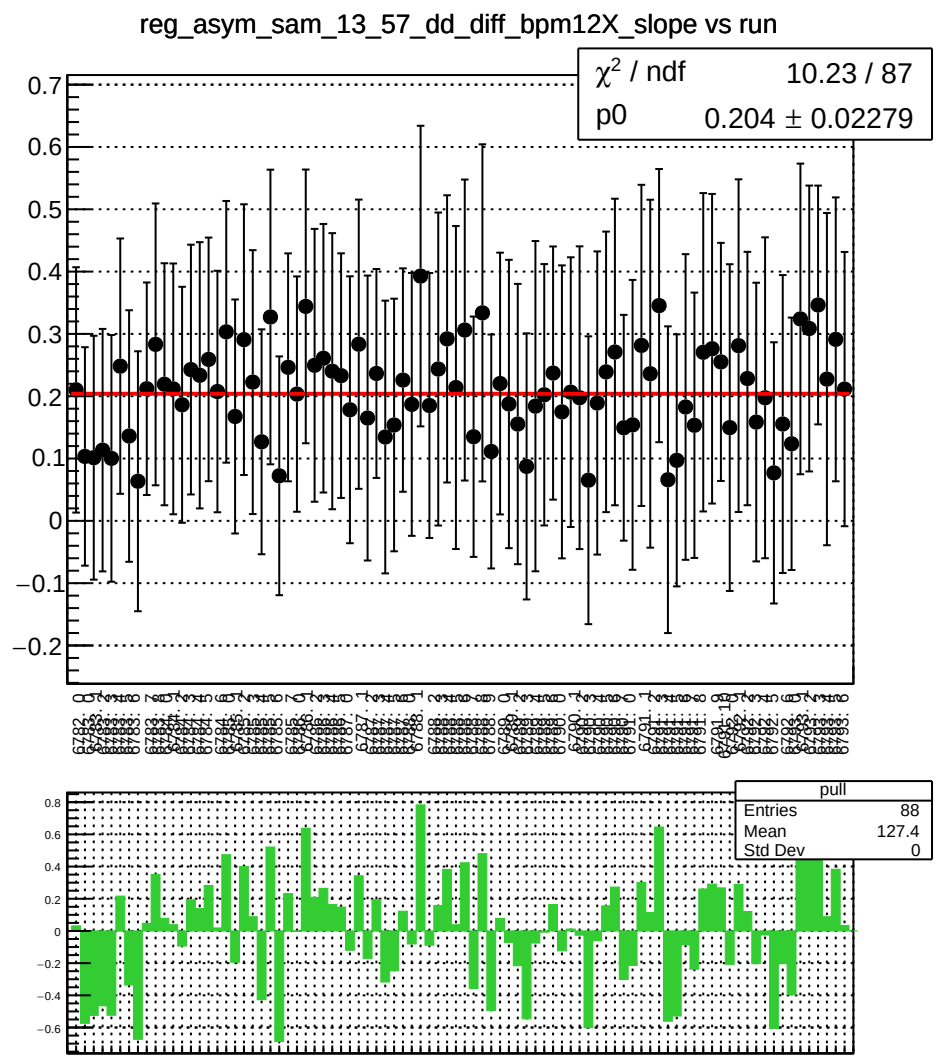

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 7.854 / 87
p0 −19.32 ± 0.552
pull
Entries 88
Mean 396.4
Std Dev 0
pull1D
Entries 88
Mean −0.01338
Std Dev 0.2985

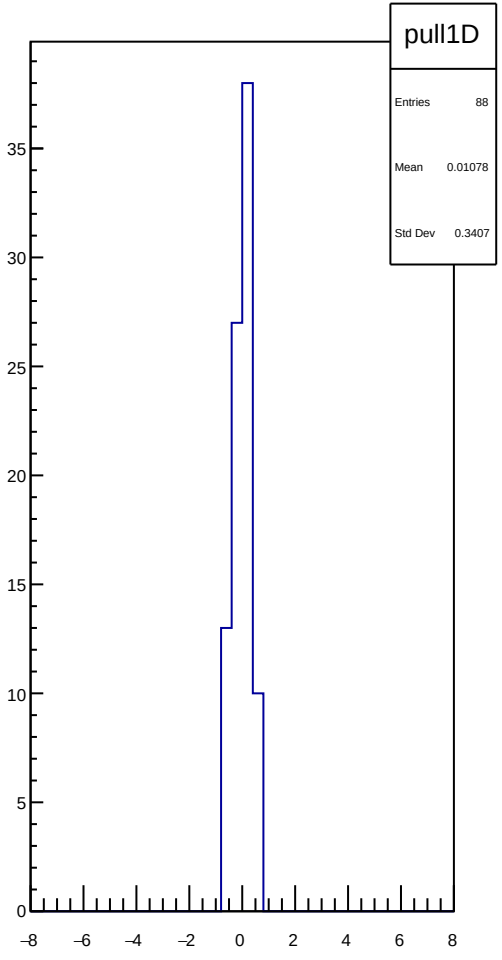

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.94 / 87
p0 −33.52 ± 0.2574
−30
−32
−34
−36
−38
pull
Entries 88
Mean 819.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.004201
Std Dev 0.398
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

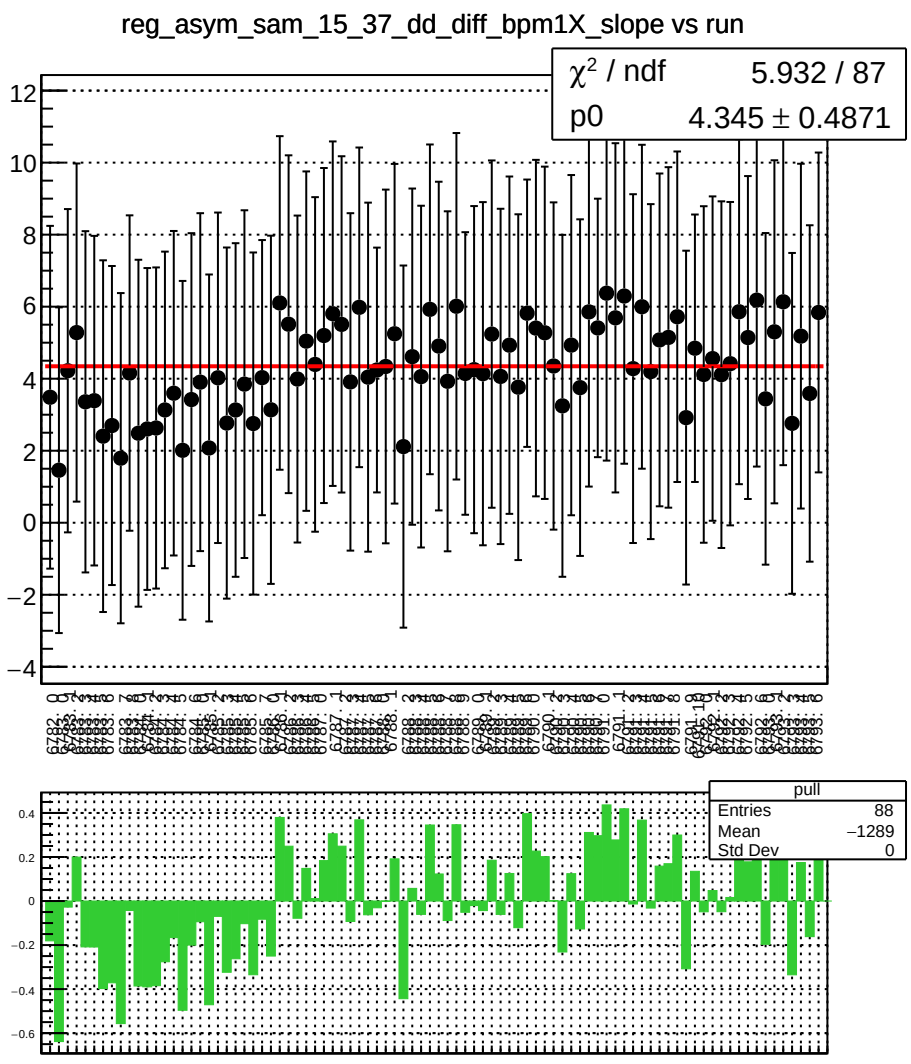

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.858 / 87
p0 −7.578 ± 0.5149
pull
Entries 88
Mean 334.8
Std Dev 0
pull1D
Entries 88
Mean 0.01456
Std Dev 0.2985

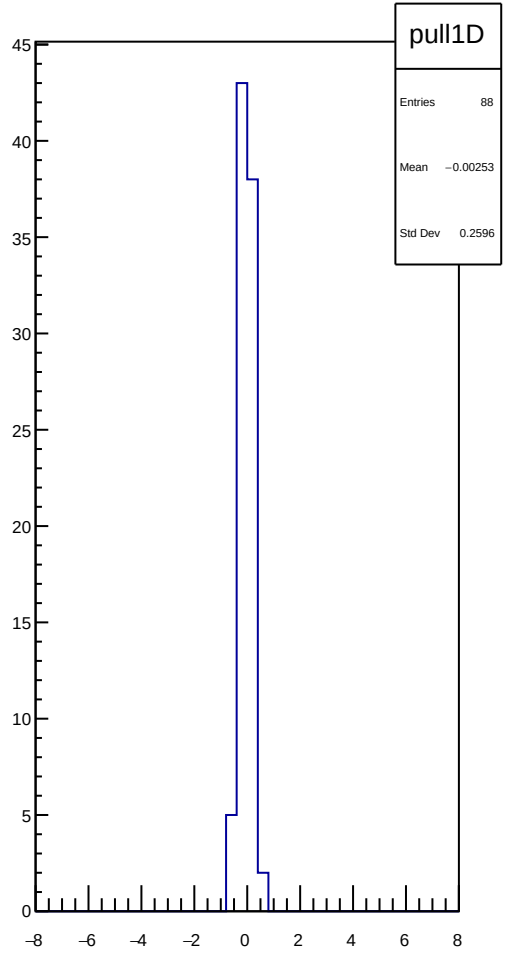

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.28 / 87
p0 −3.444 ± 0.3506
pull
Entries 88
Mean 273.4
Std Dev 0

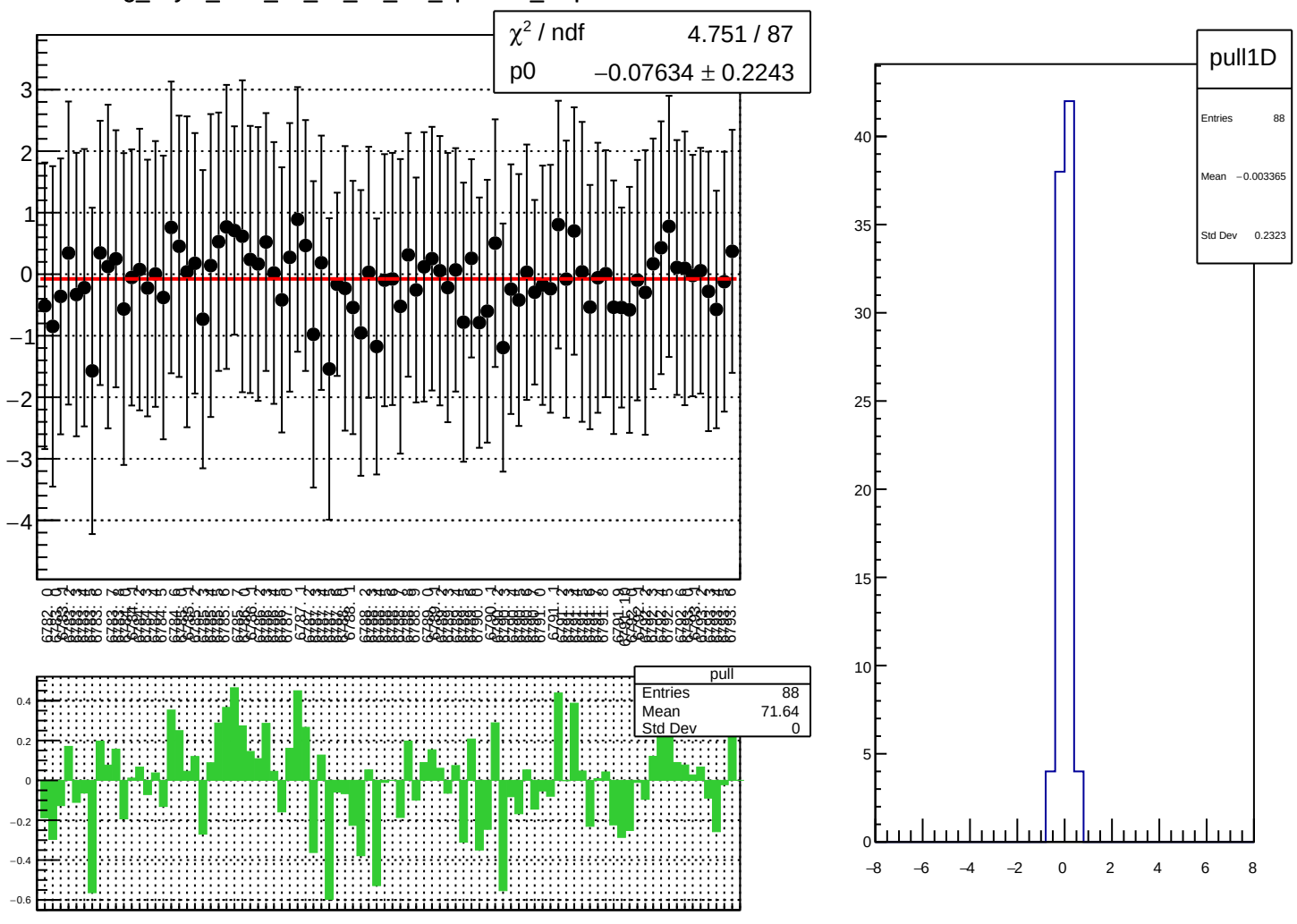

pull1D
Entries 88
Mean 0.01169
Std Dev 0.4165

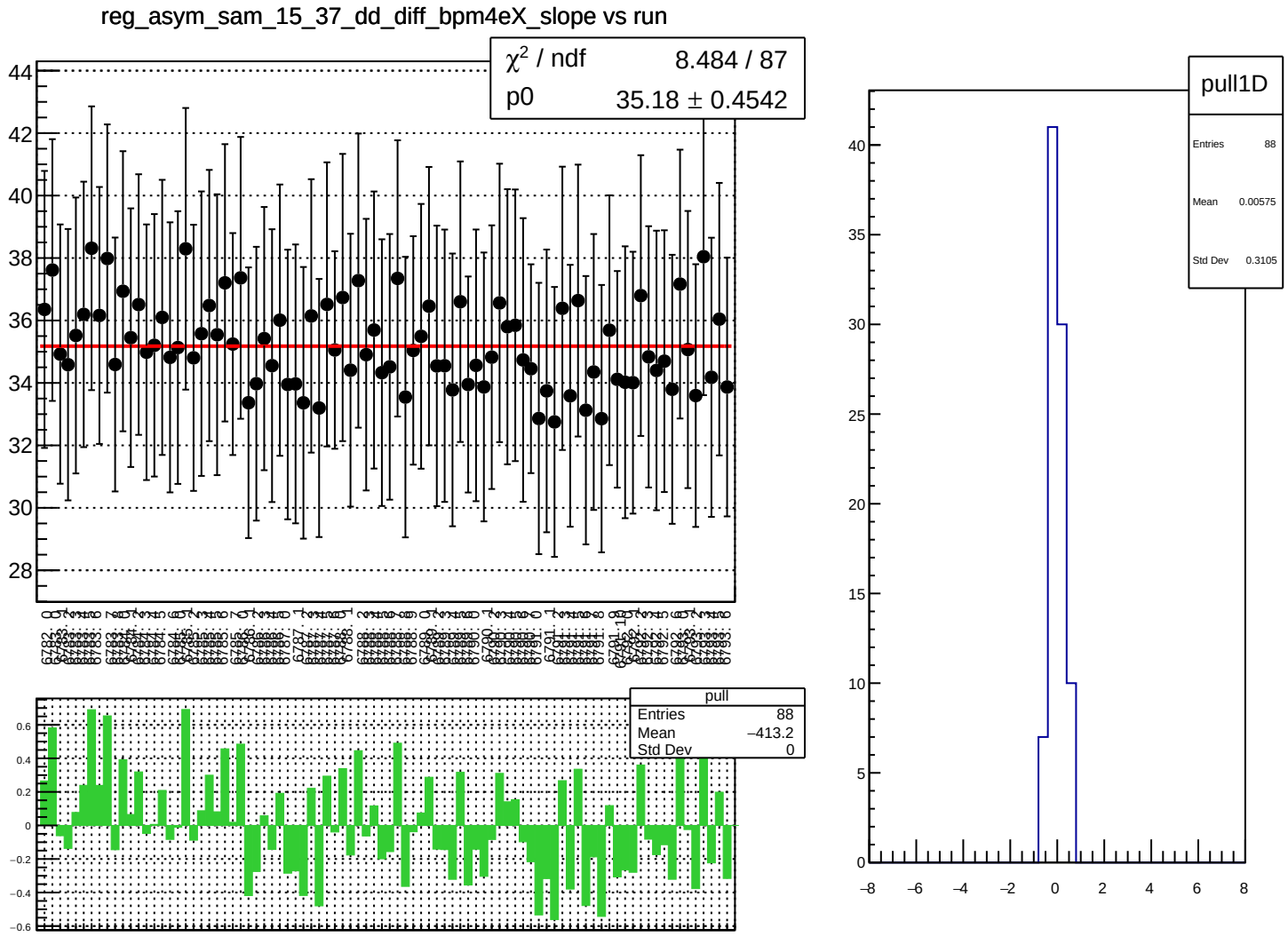

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 10.23 / 87
p0 0.204 ± 0.02279
pull
Entries 88
Mean 127.4
Std Dev 0

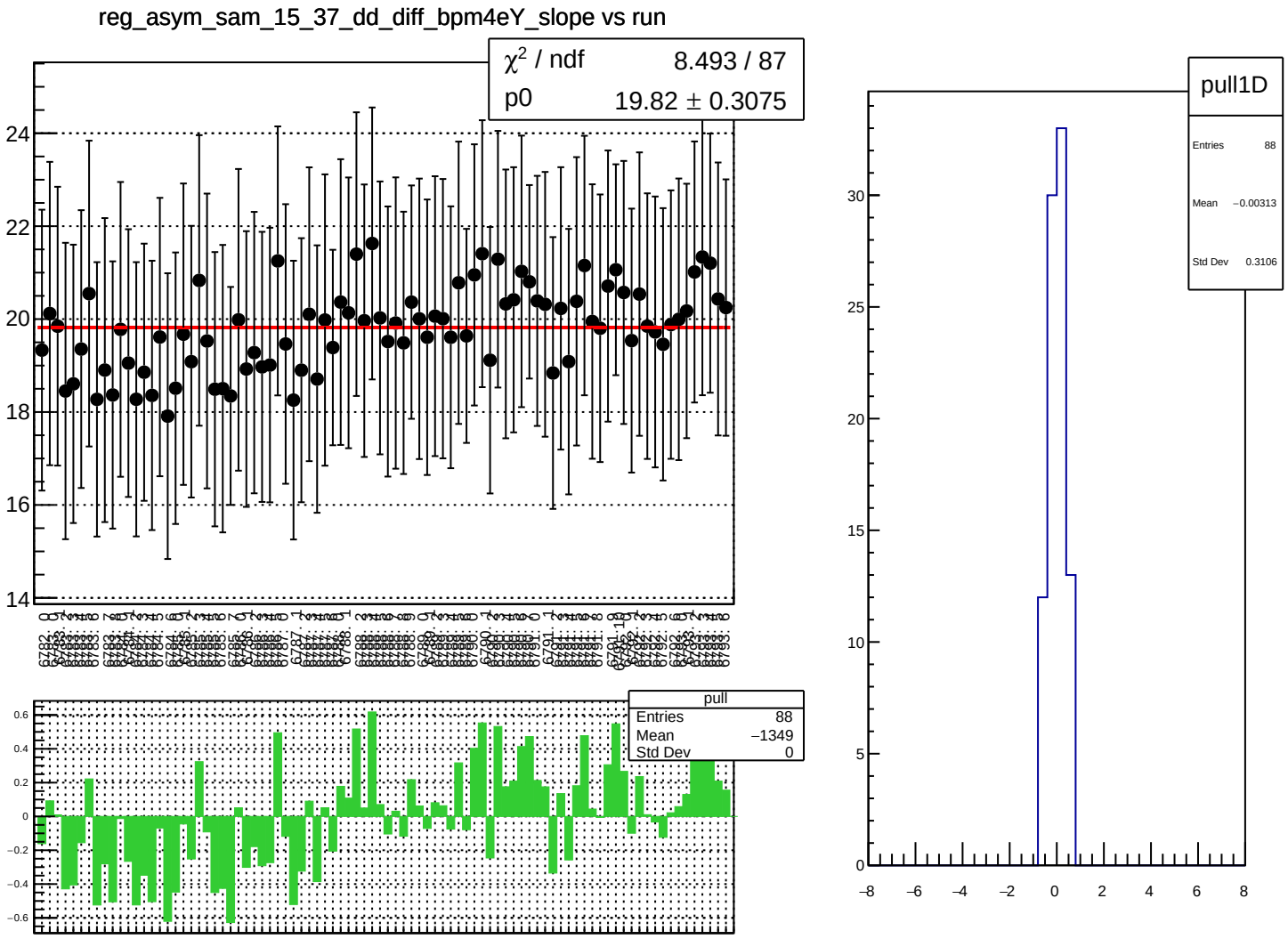

pull1D
Entries 88
Mean 0.01078
Std Dev 0.3407

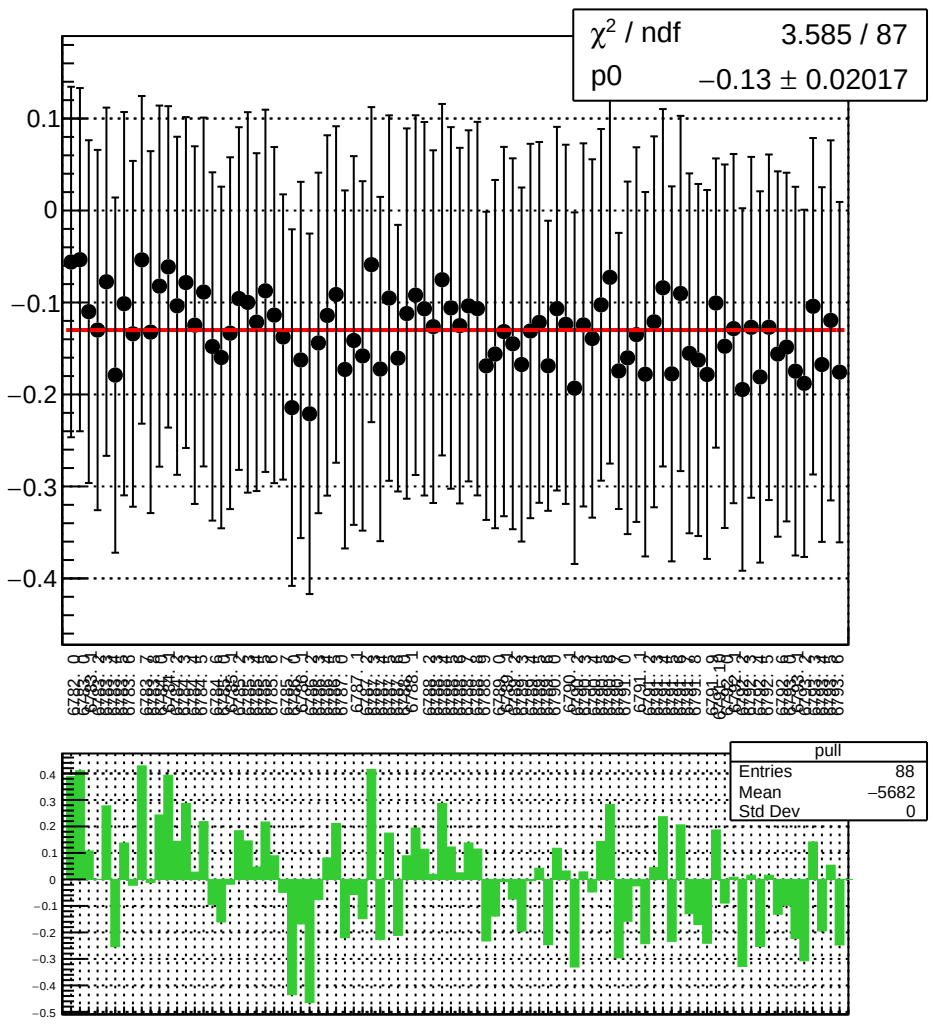

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.932 / 87
p0 4.345 ± 0.4871
pull
Entries 88
Mean −1289
Std Dev 0

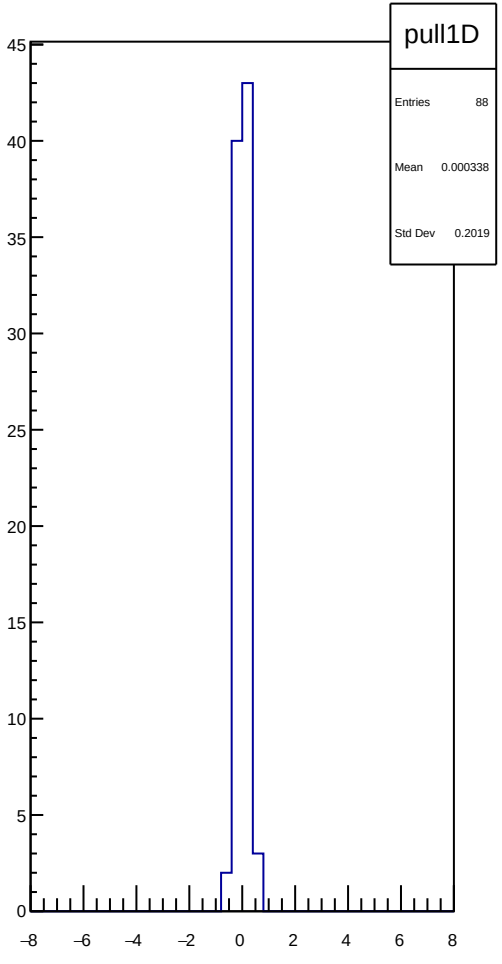

pull1D
Entries 88
Mean −0.00253
Std Dev 0.2596

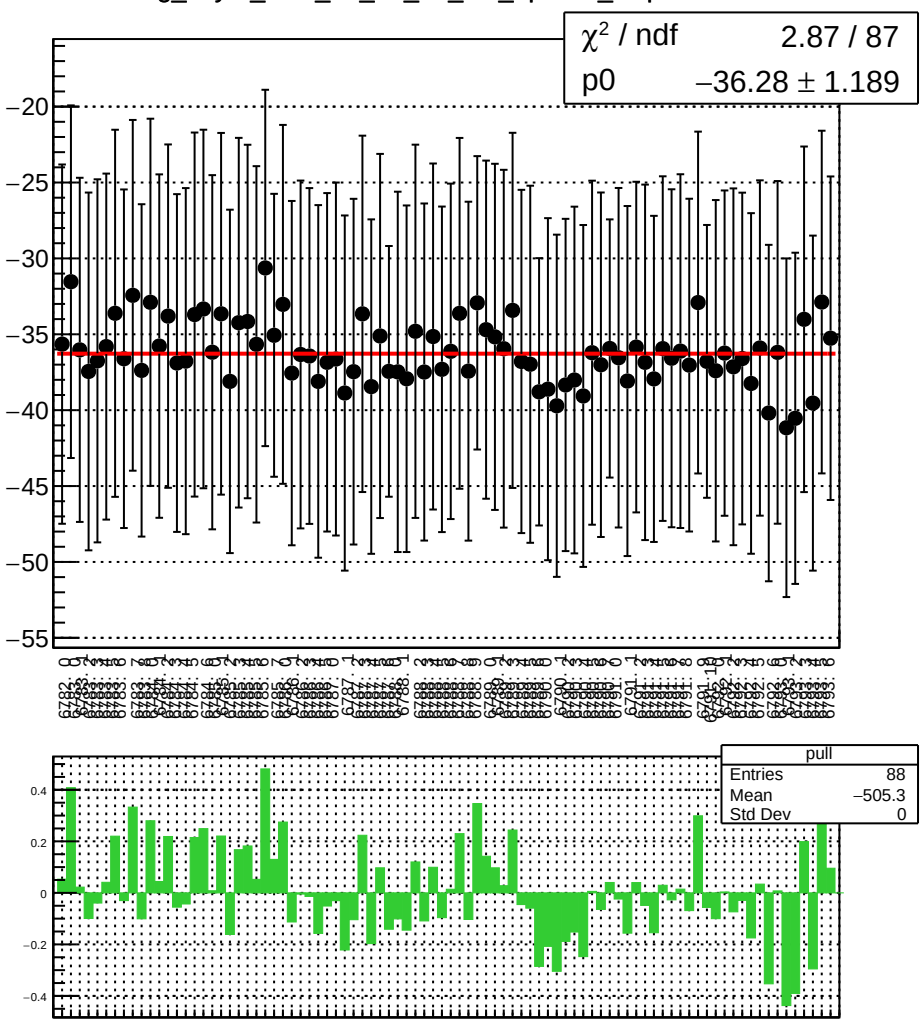

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.751 / 87
p0 −0.07634 ± 0.2243
pull
Entries 88
Mean 71.64
Std Dev 0
pull1D
Entries 88
Mean −0.003365
Std Dev 0.2323

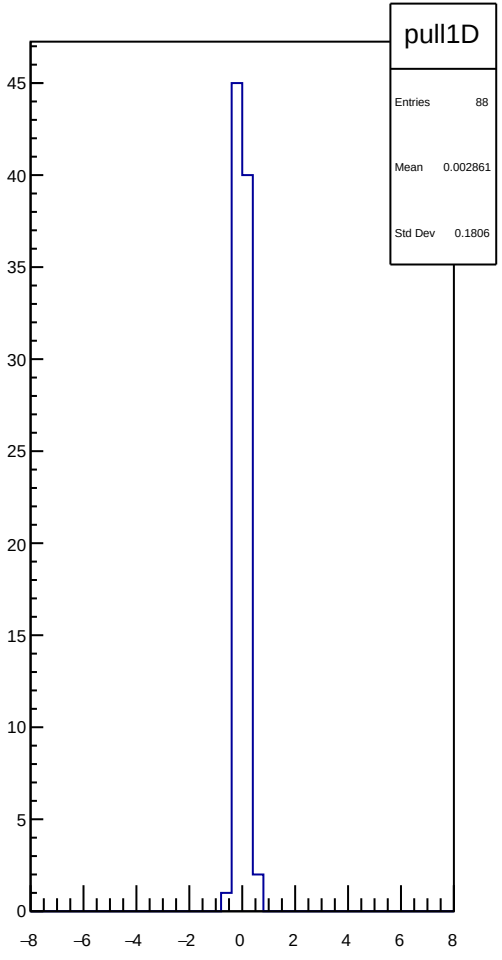

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.484 / 87
p0 35.18 ± 0.4542
pull
Entries 88
Mean −413.2
Std Dev 0
pull1D
Entries 88
Mean 0.00575
Std Dev 0.3105

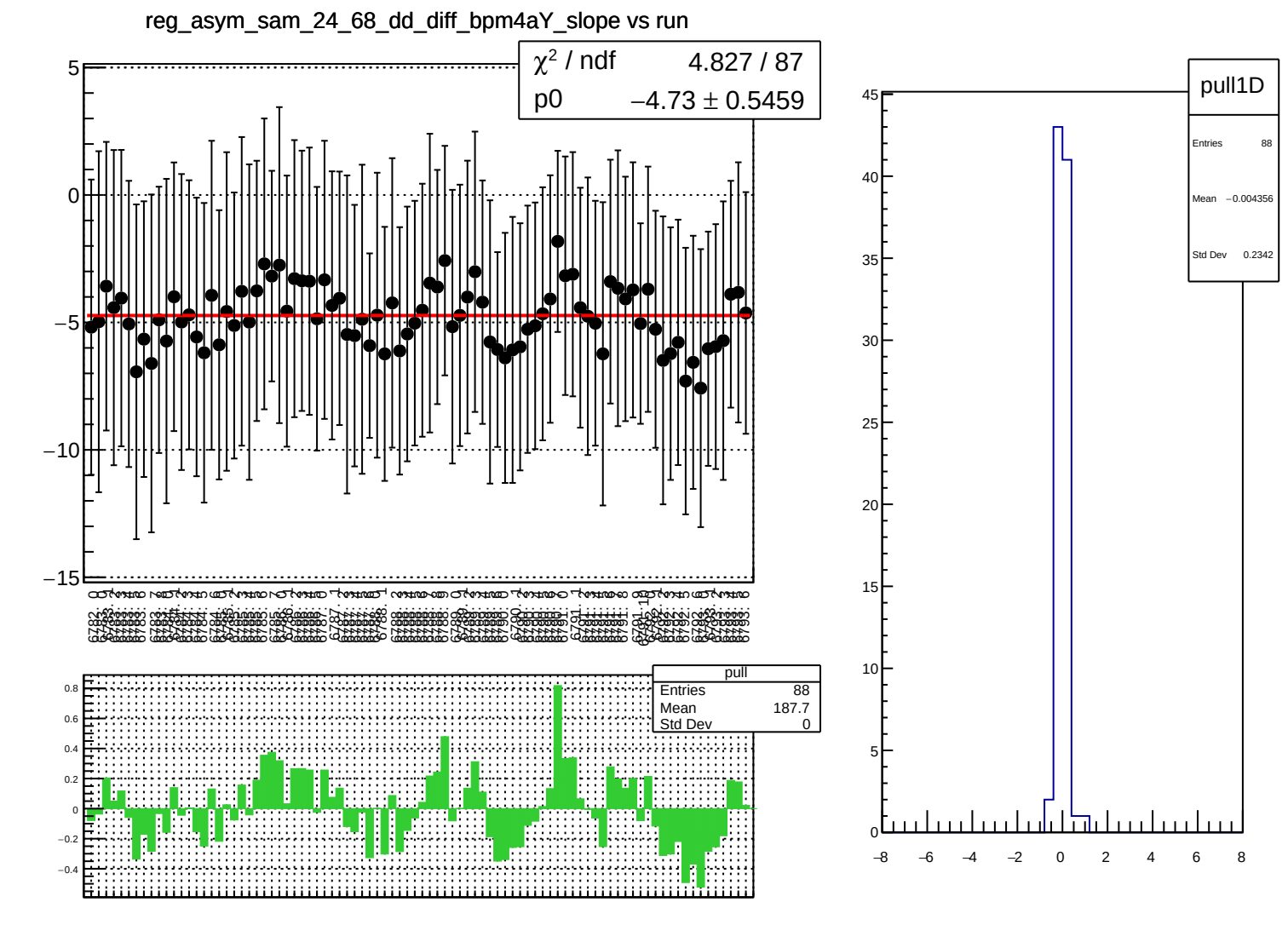

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.493 / 87
p0 19.82 ± 0.3075
pull
Entries 88
Mean −1349
Std Dev 0
pull1D
Entries 88
Mean −0.00313
Std Dev 0.3106

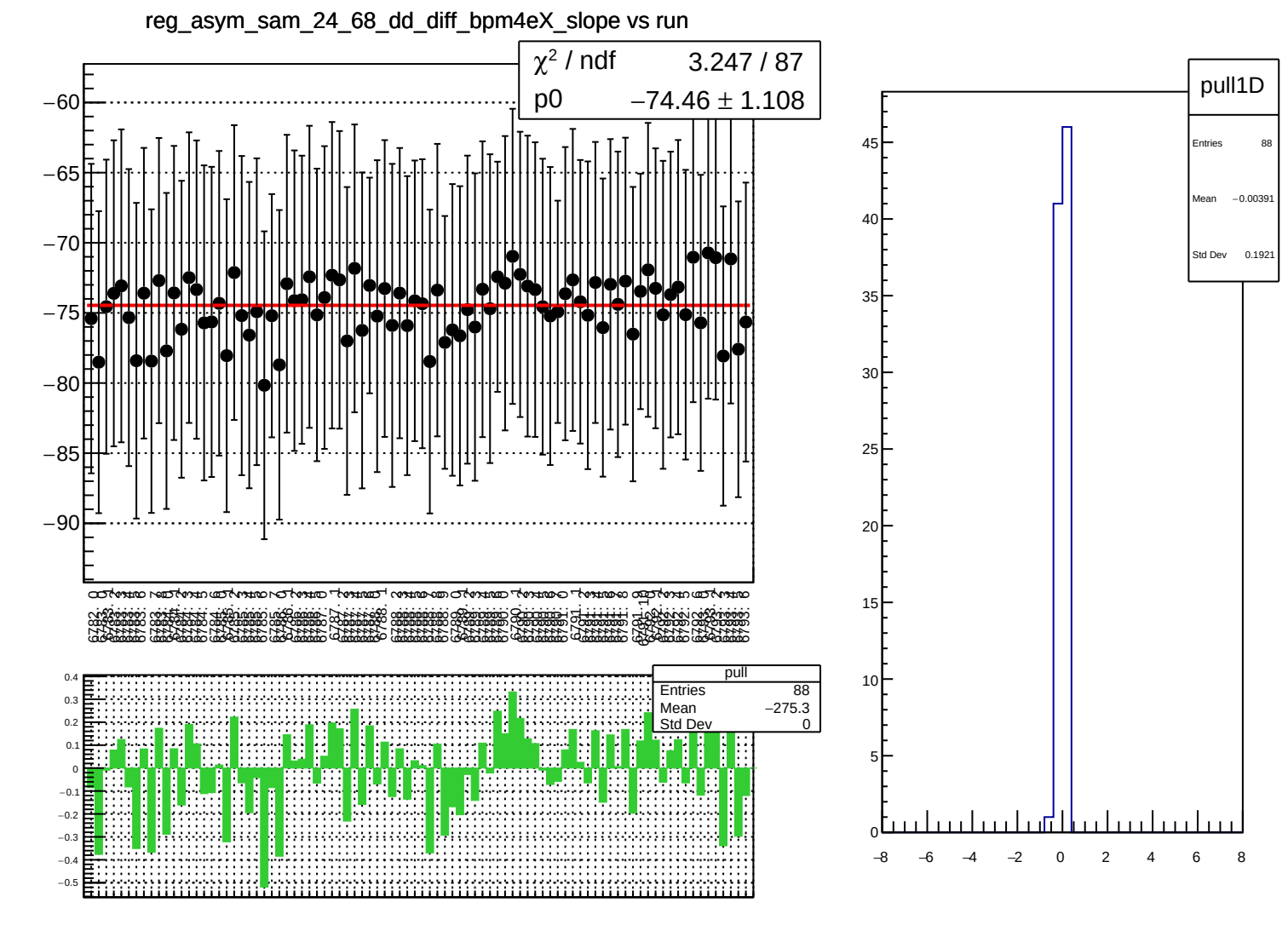

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.585 / 87
p0 −0.13 ± 0.02017
pull
Entries 88
Mean −5682
Std Dev 0

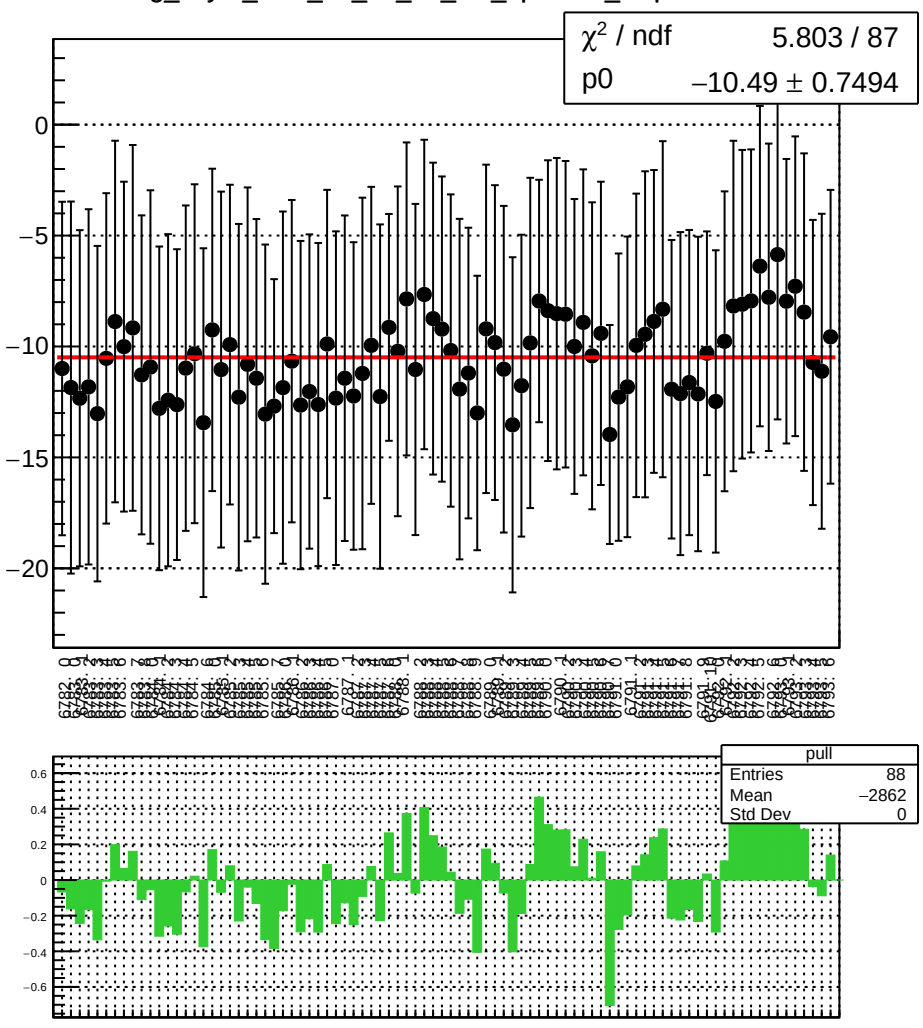

pull1D
Entries 88
Mean 0.000338
Std Dev 0.2019

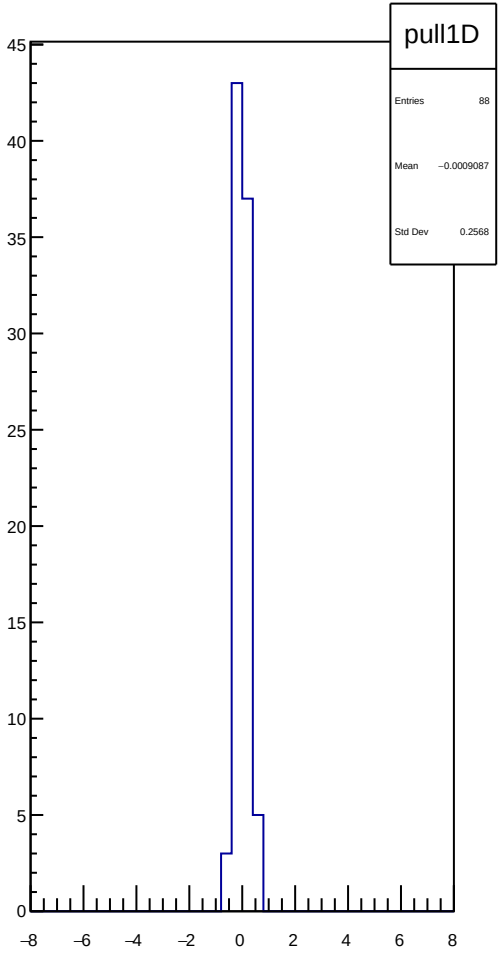

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.87 / 87
p0 −36.28 ± 1.189
pull
Entries 88
Mean −505.3
Std Dev 0

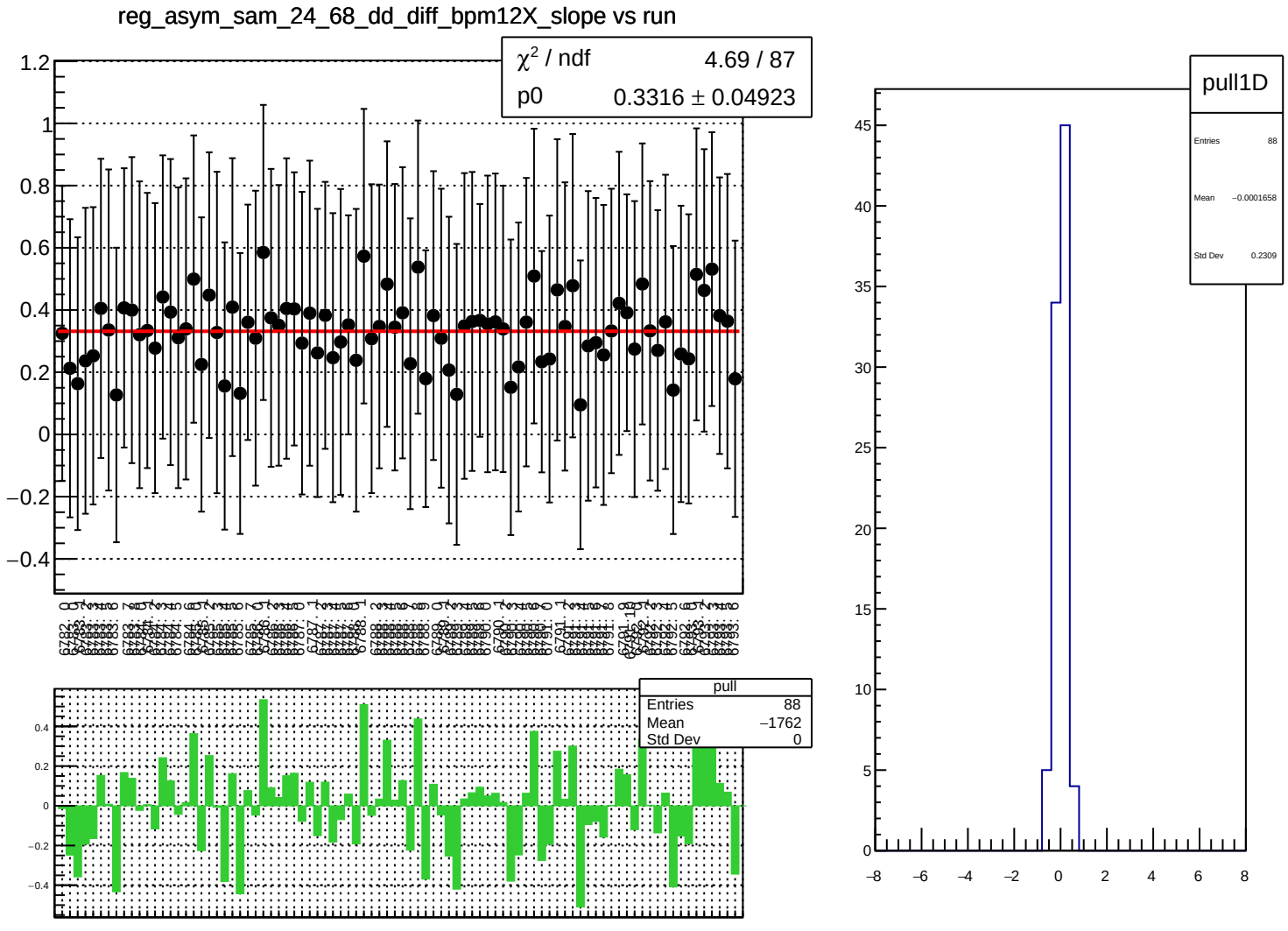

pull1D
Entries 88
Mean 0.002861
Std Dev 0.1806

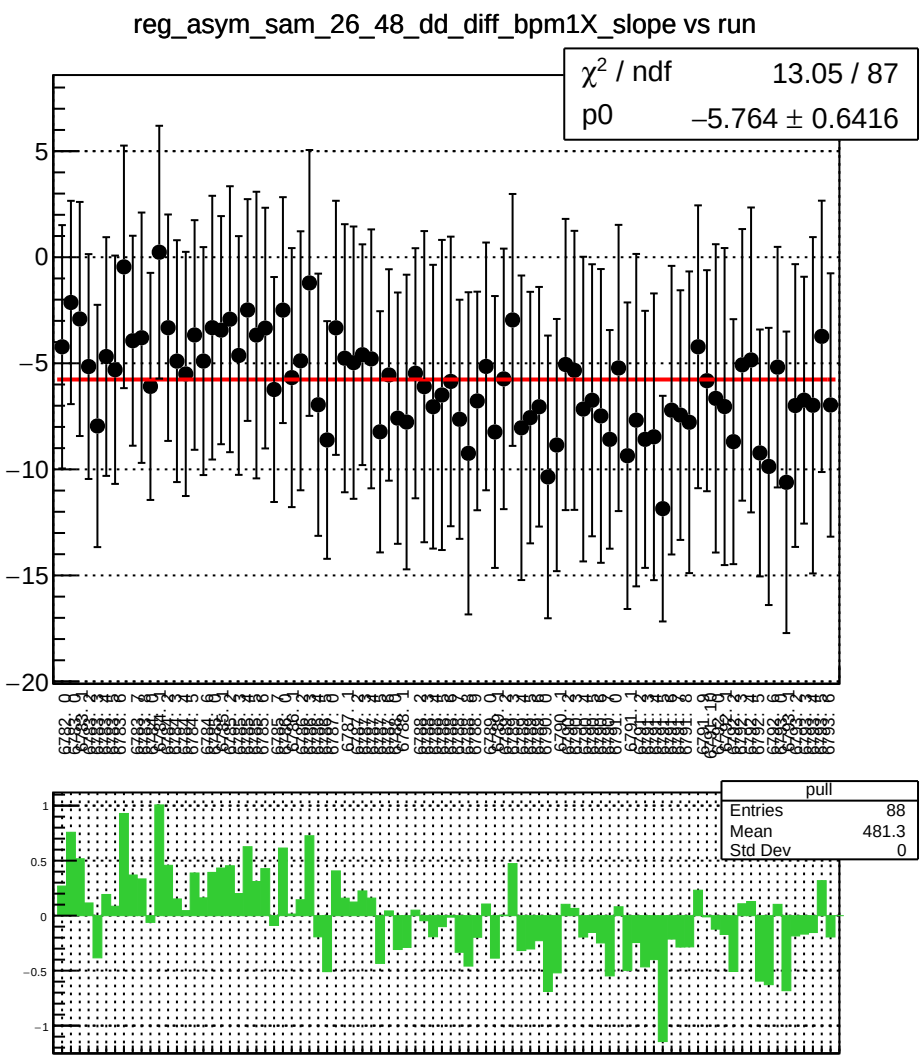

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.827 / 87
p0 −4.73 ± 0.5459
pull
Entries 88
Mean 187.7
Std Dev 0
pull1D
Entries 88
Mean −0.004356
Std Dev 0.2342

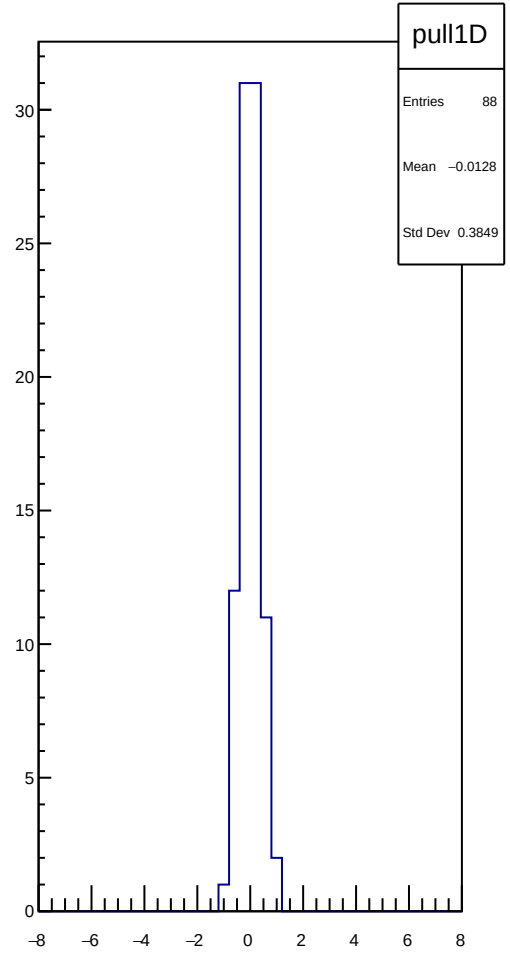

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.247 / 87
p0 −74.46 ± 1.108
pull
Entries 88
Mean −275.3
Std Dev 0
pull1D
Entries 88
Mean −0.00391
Std Dev 0.1921

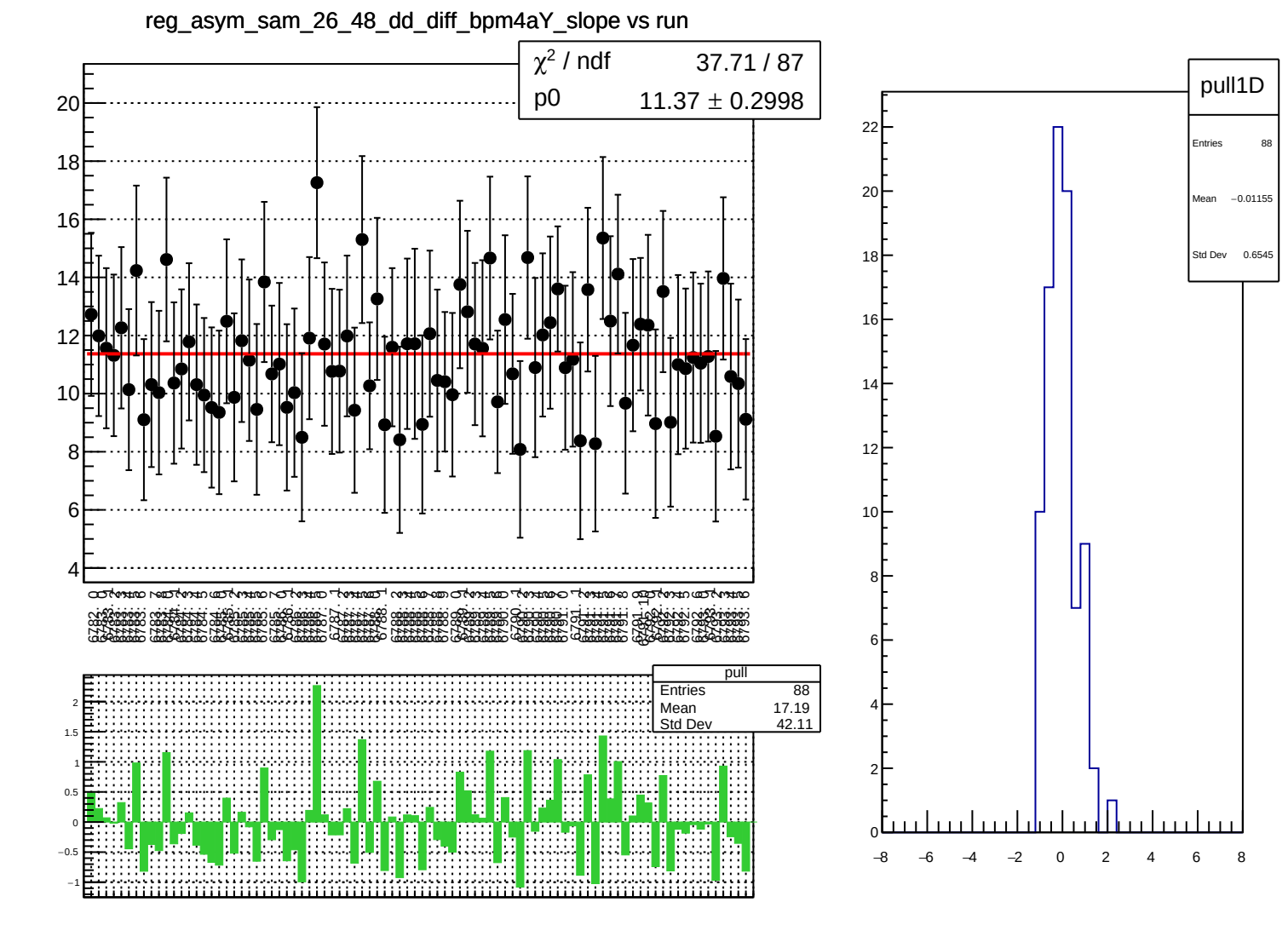

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.803 / 87
p0 −10.49 ± 0.7494
pull
Entries 88
Mean −2862
Std Dev 0

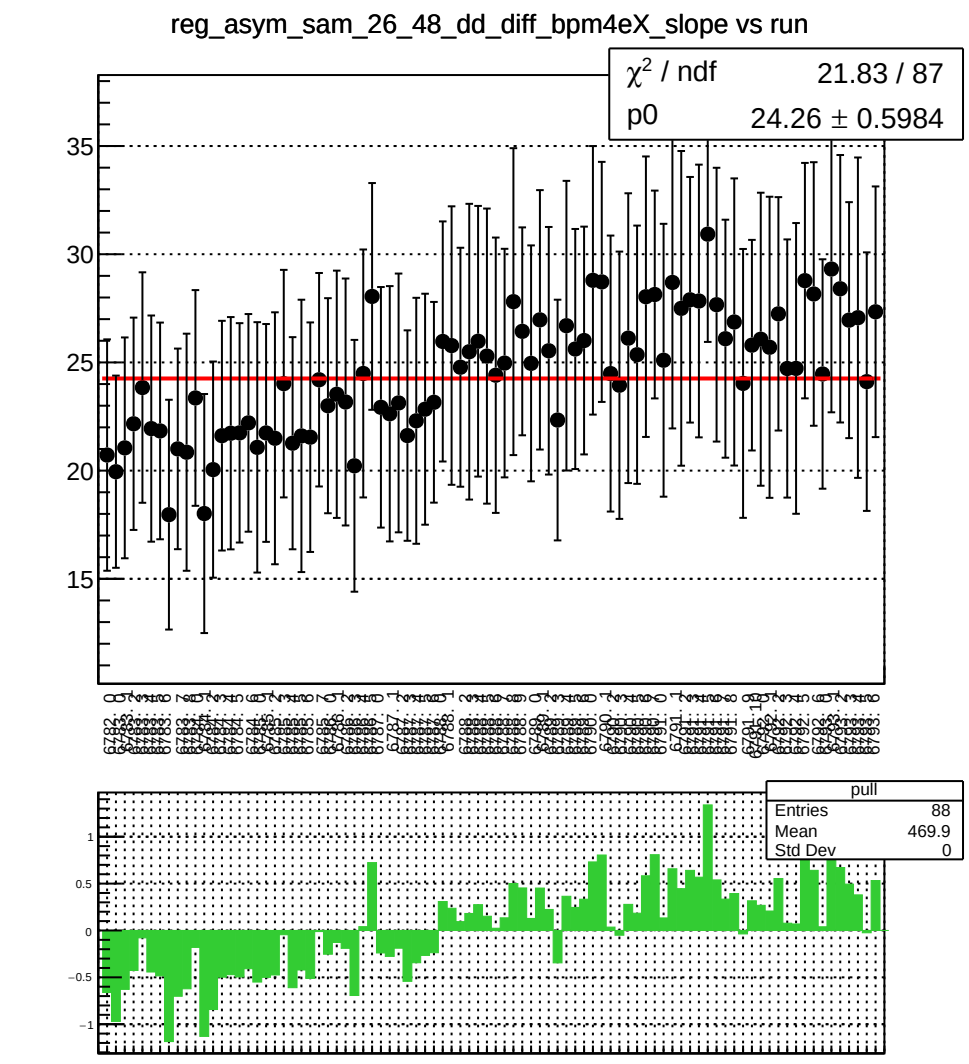

pull1D
Entries 88
Mean −0.0009087
Std Dev 0.2568

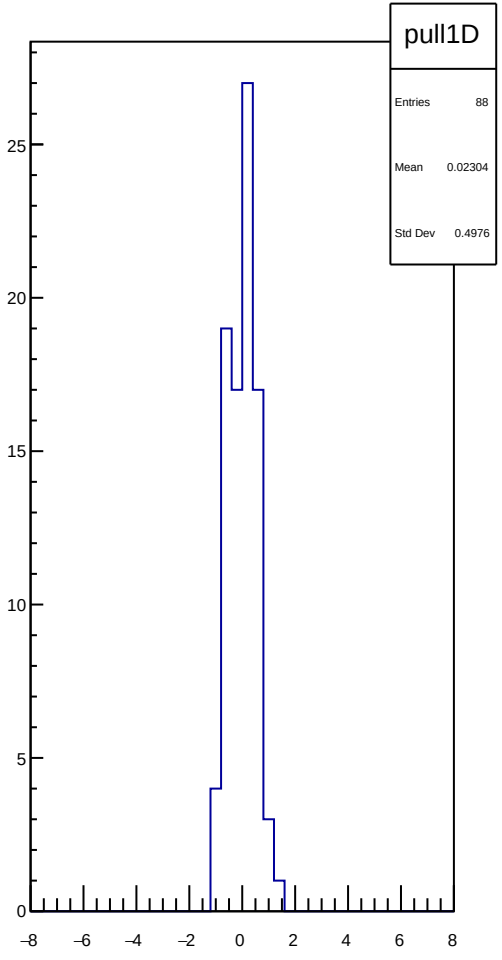

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 4.69 / 87
p0 0.3316 ± 0.04923
pull
Entries 88
Mean −1762
Std Dev 0
pull1D
Entries 88
Mean −0.0001658
Std Dev 0.2309

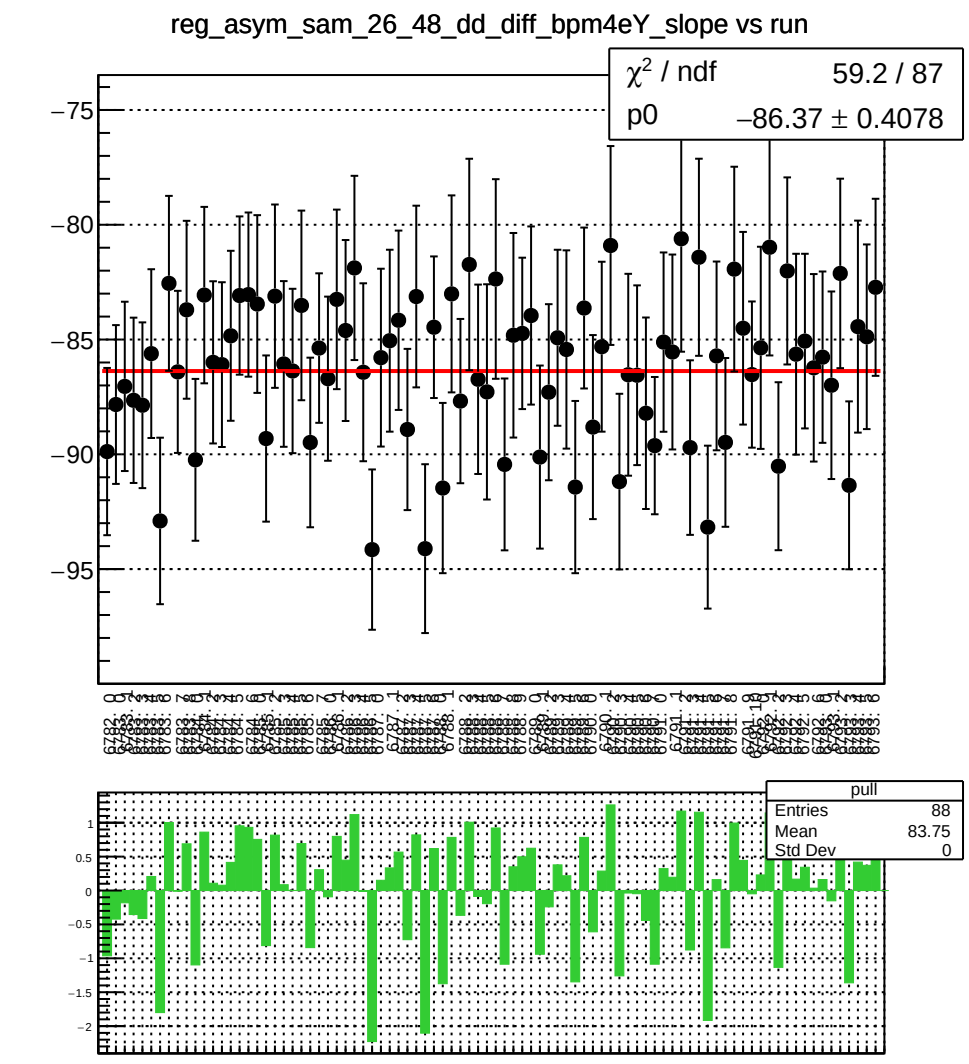

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 13.05 / 87
p0 −5.764 ± 0.6416
pull
Entries 88
Mean 481.3
Std Dev 0

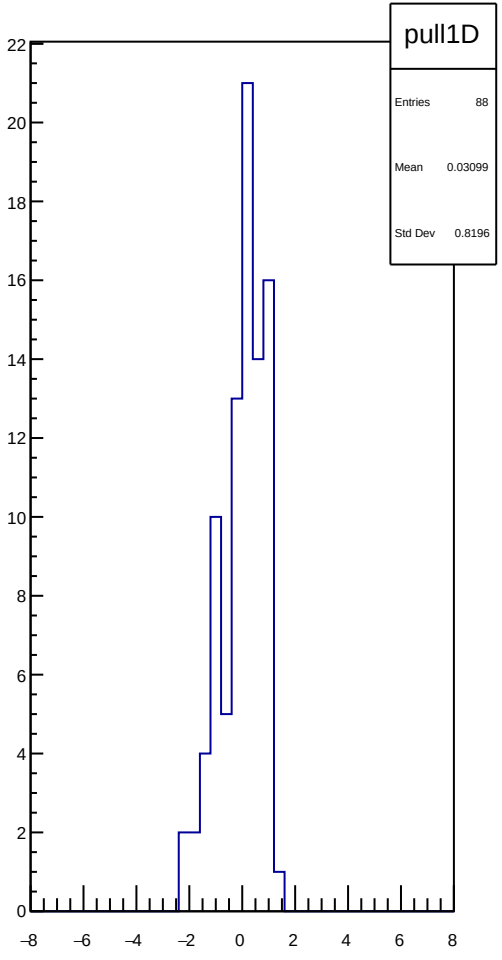

pull1D
Entries 88
Mean −0.0128
Std Dev 0.3849

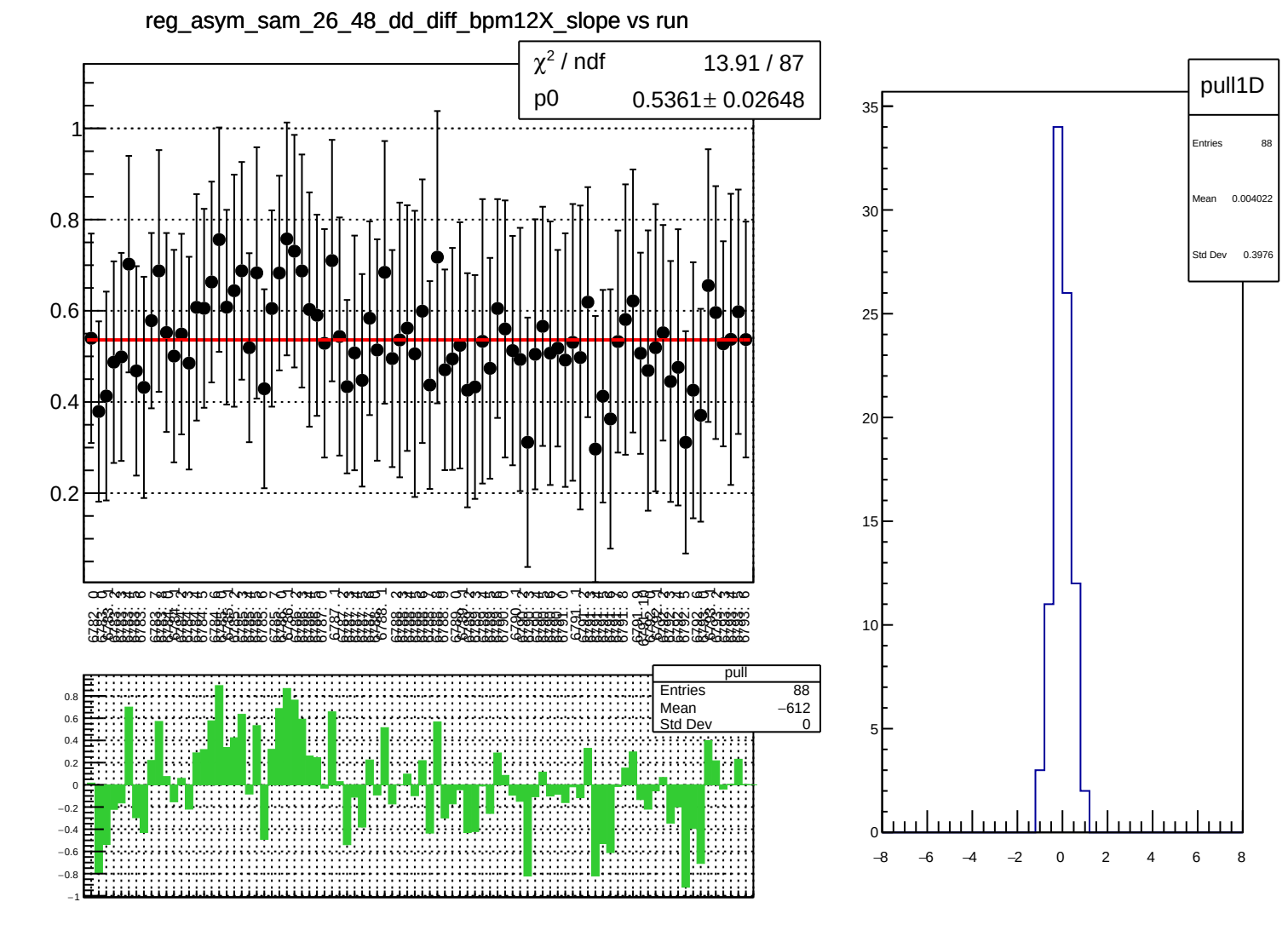

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.71 / 87
p0 11.37 ± 0.2998
pull
Entries 88
Mean 17.19
Std Dev 42.11
pull1D
Entries 88
Mean −0.01155
Std Dev 0.6545

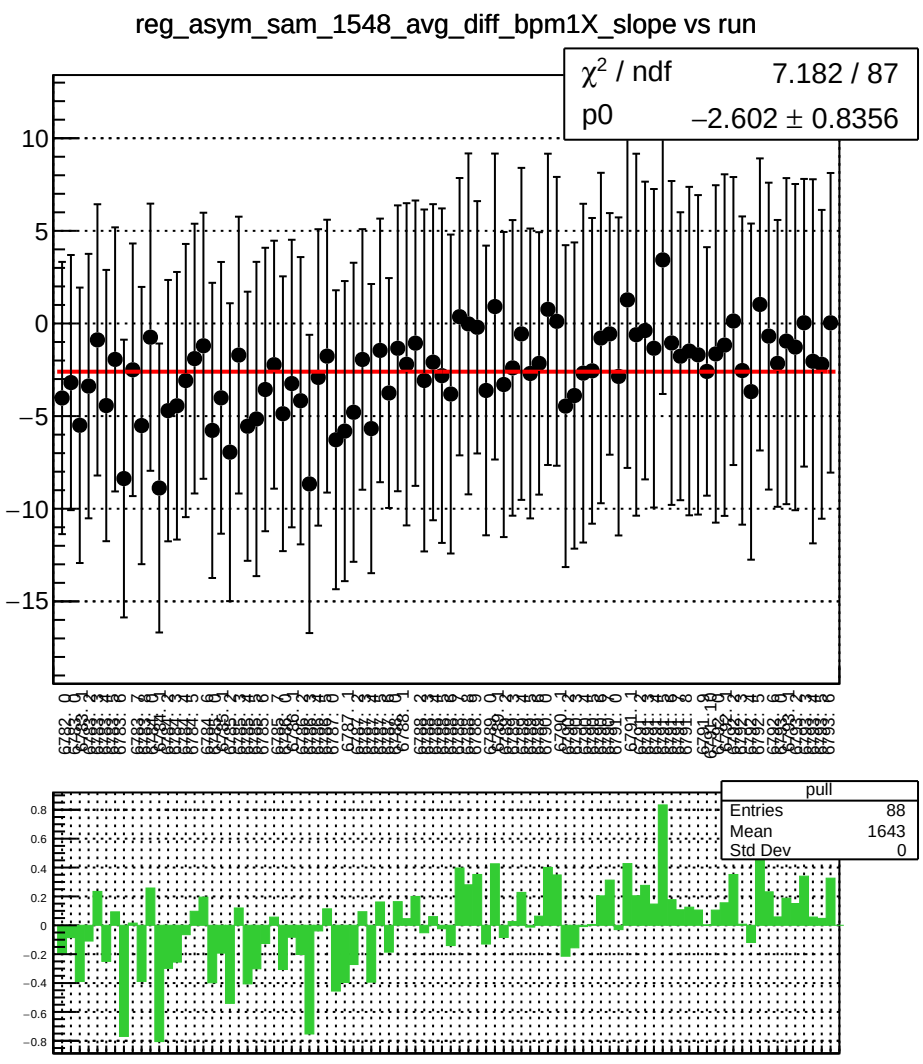

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.83 / 87
p0 24.26 ± 0.5984
35
30
25
20
15
pull
Entries 88
Mean 469.9
Std Dev 0
1
0.5
0
−0.5
−1

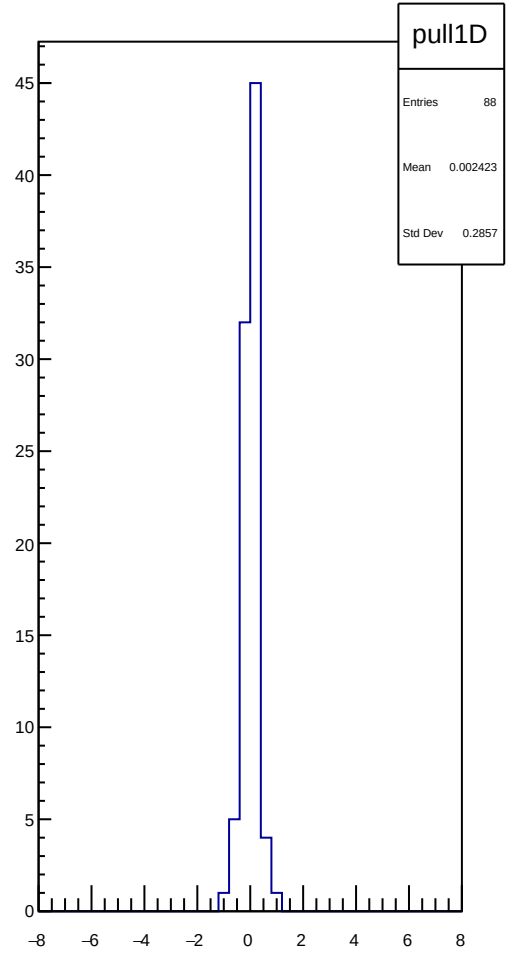

pull1D
Entries 88
Mean 0.02304
Std Dev 0.4976
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

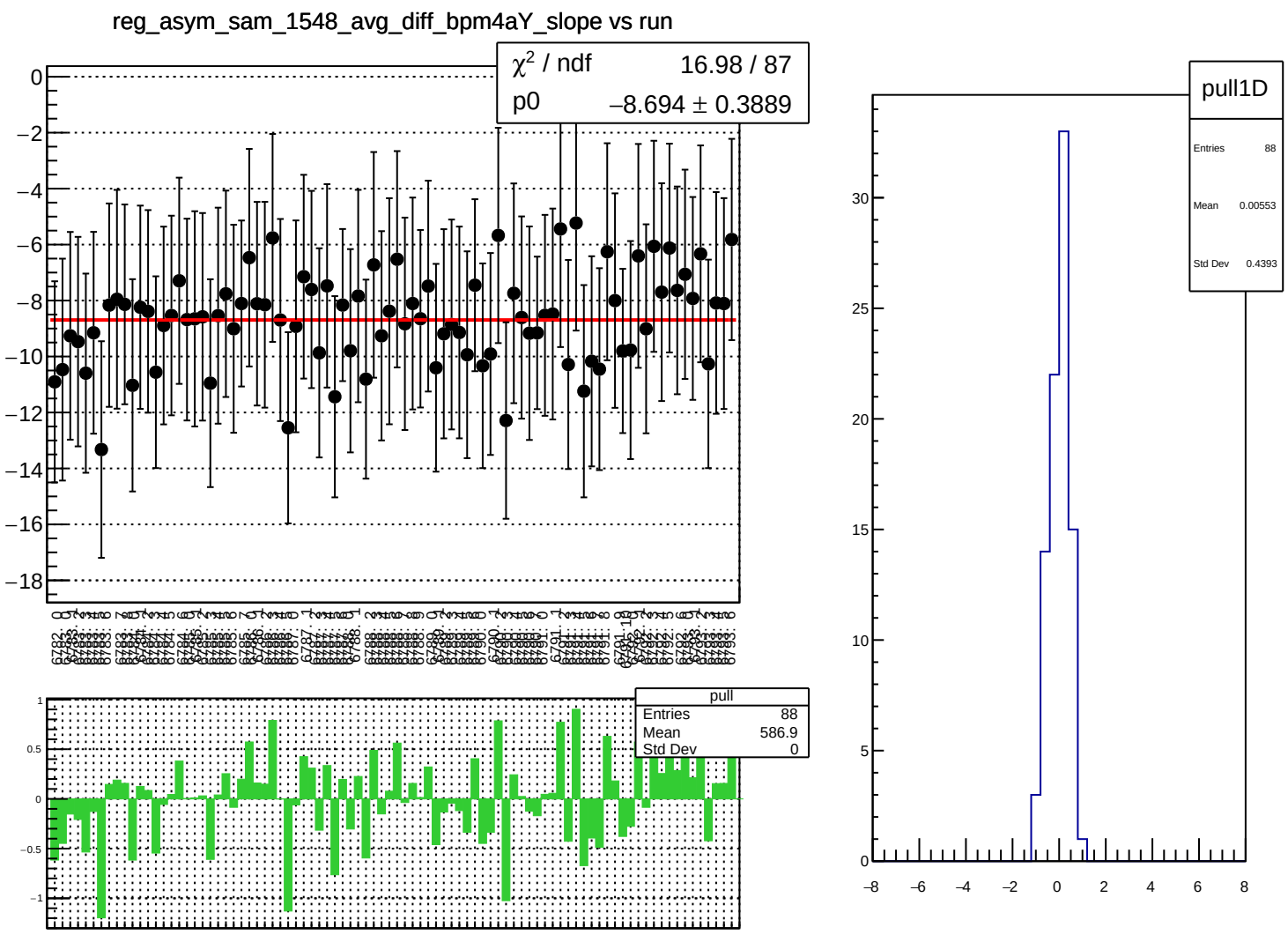

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.2 / 87
p0 −86.37 ± 0.4078
pull
Entries 88
Mean 83.75
Std Dev 0

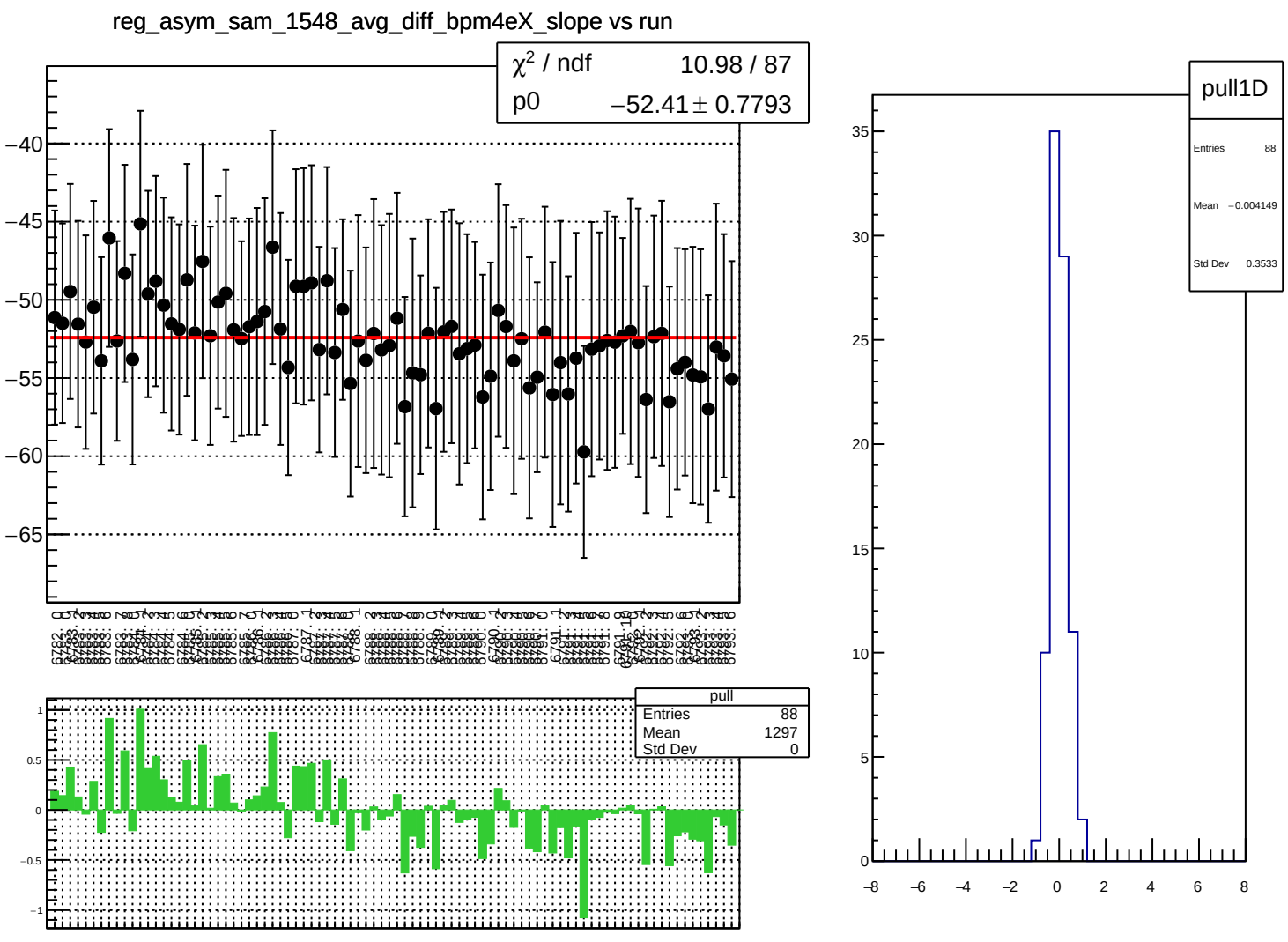

pull1D
Entries 88
Mean 0.03099
Std Dev 0.8196

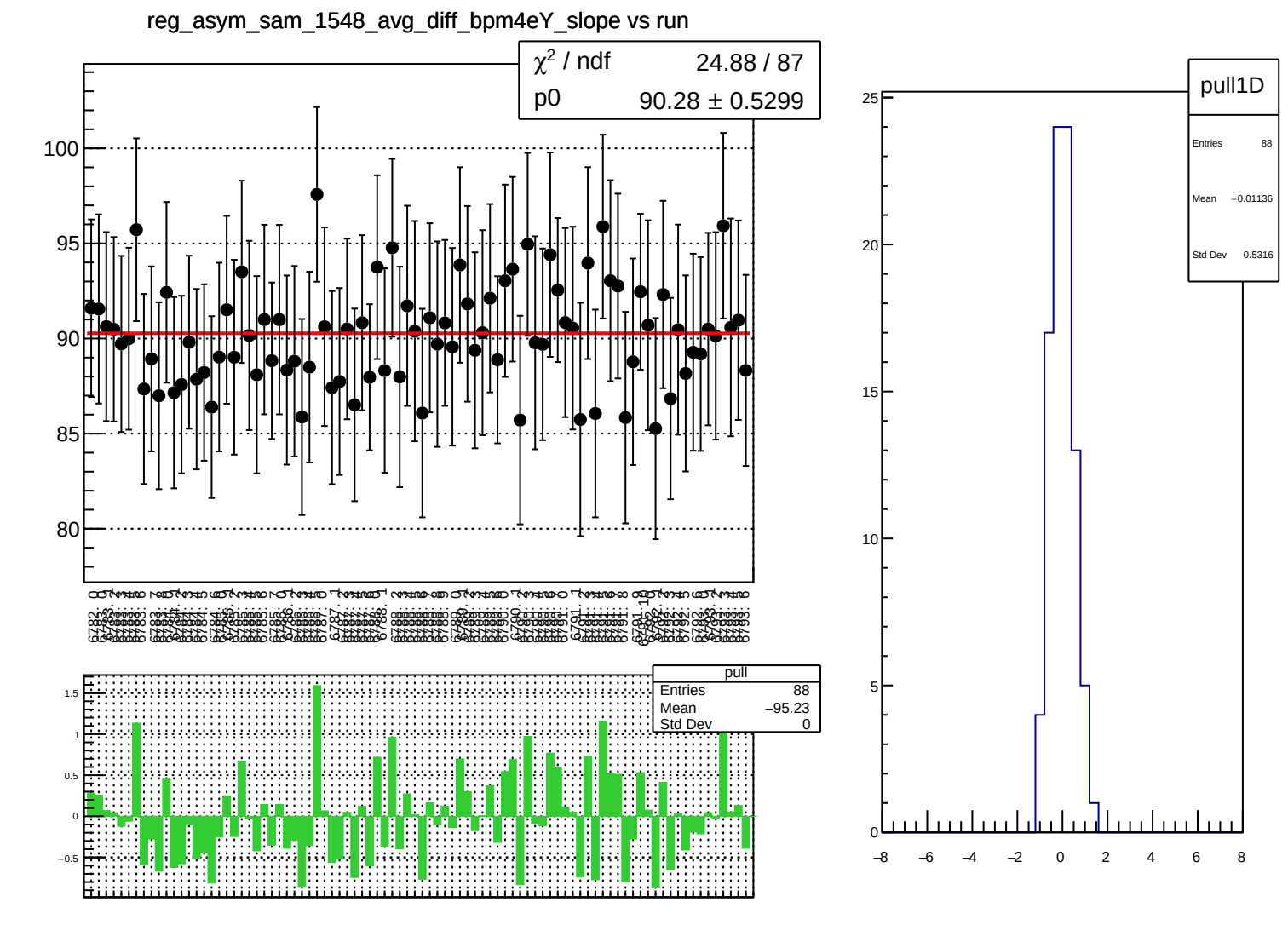

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.91 / 87
p0 0.5361± 0.02648
pull
Entries 88
Mean −612
Std Dev 0
pull1D
Entries 88
Mean 0.004022
Std Dev 0.3976

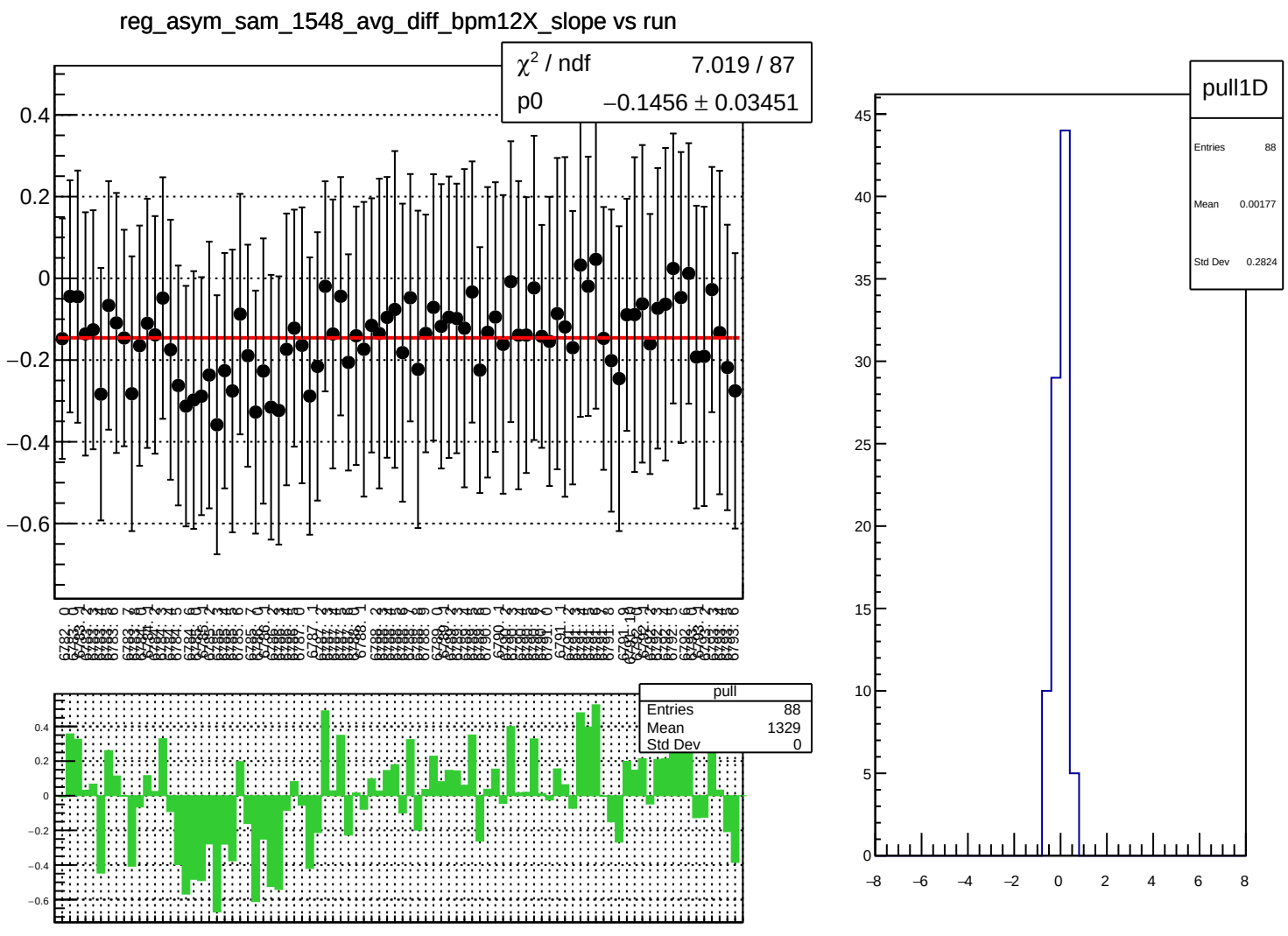

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 7.182 / 87
p0 −2.602 ± 0.8356
pull
Entries 88
Mean 1643
Std Dev 0

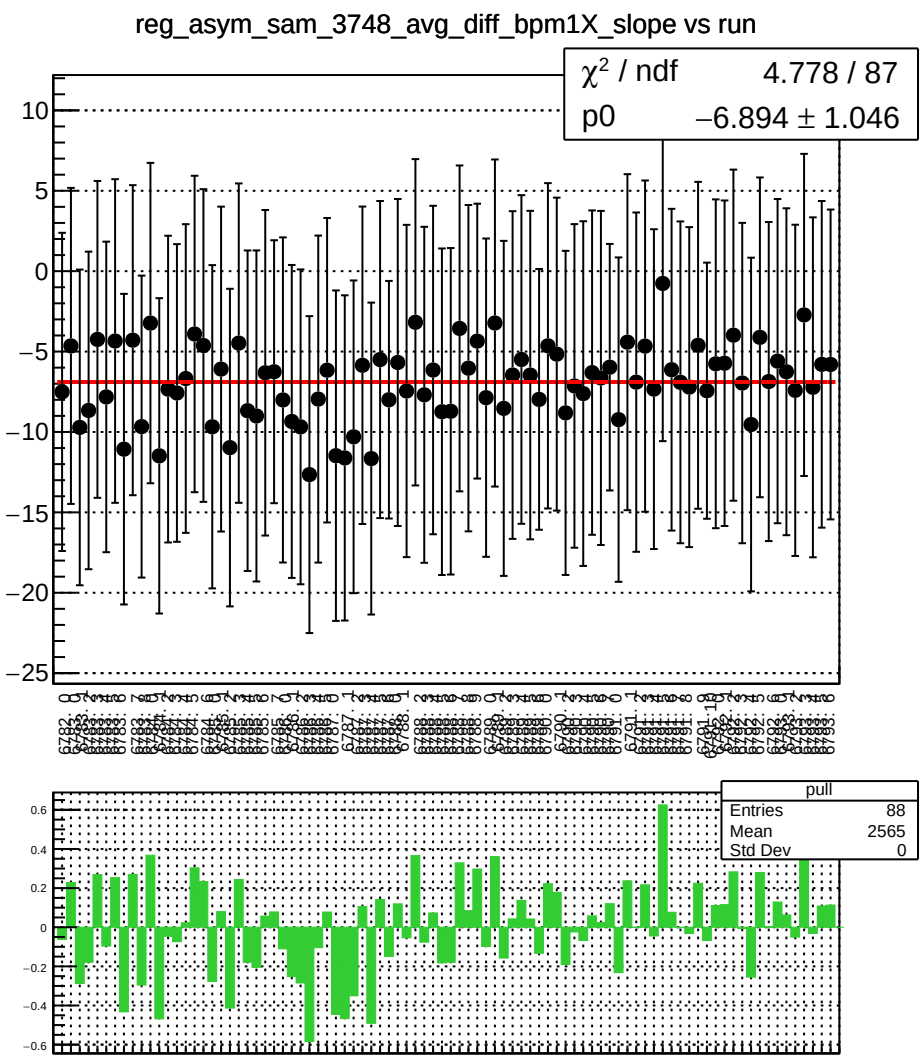

pull1D
Entries 88
Mean 0.002423
Std Dev 0.2857

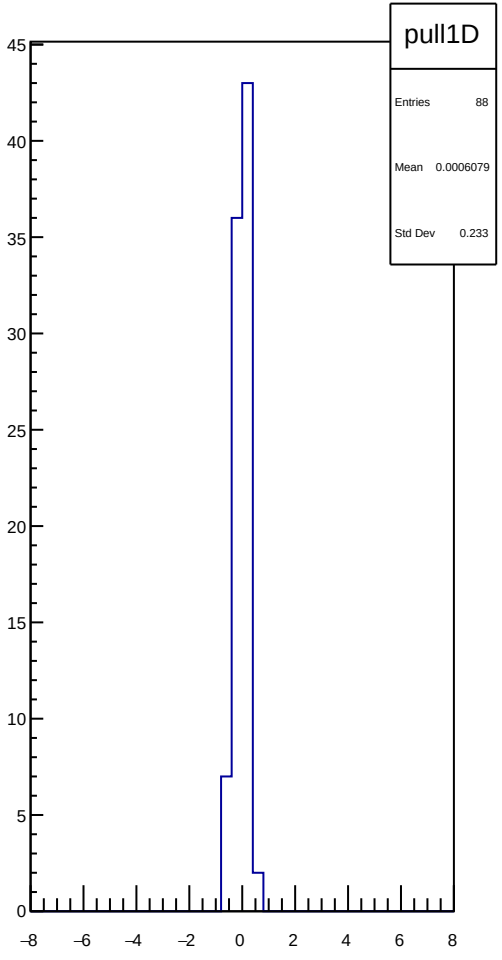

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.98 / 87
p0 −8.694 ± 0.3889
pull
Entries 88
Mean 586.9
Std Dev 0
pull1D
Entries 88
Mean 0.00553
Std Dev 0.4393

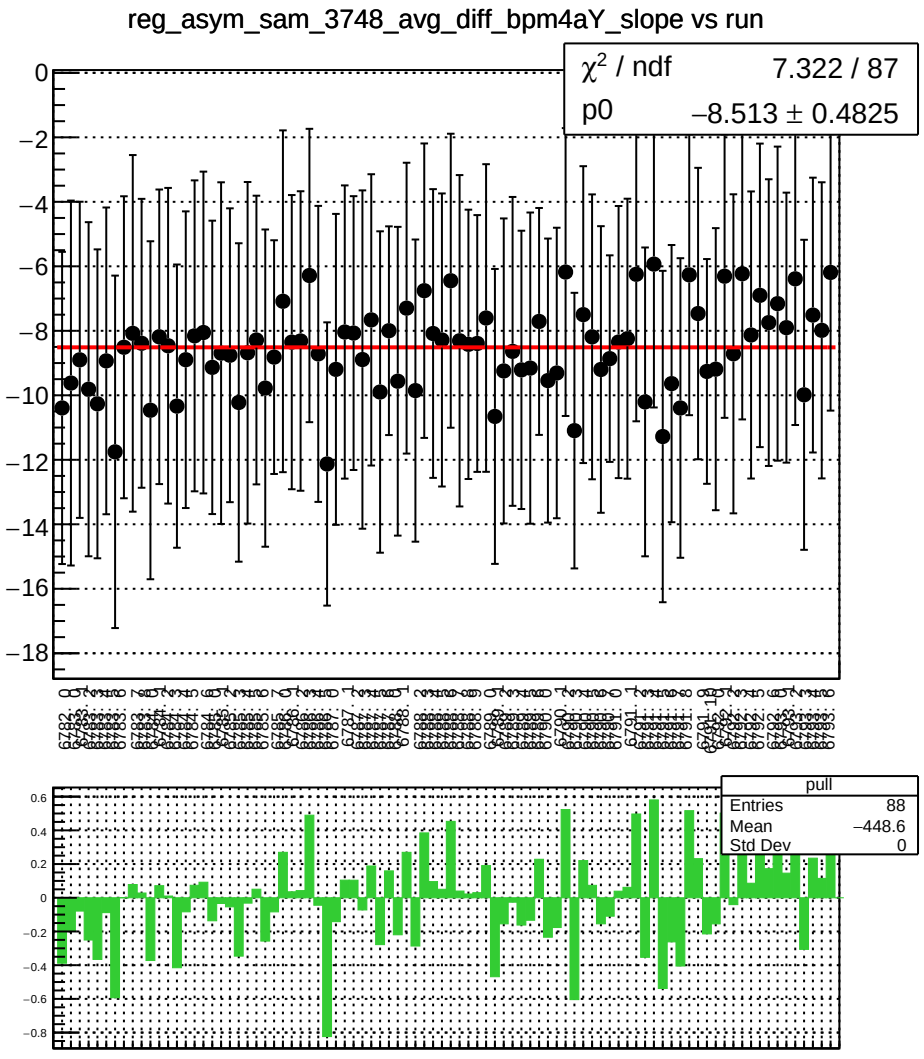

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.98 / 87
p0 −52.41 ± 0.7793
−40
−45
−50
−55
−60
−65
pull
Entries 88
Mean 1297
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.004149
Std Dev 0.3533
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

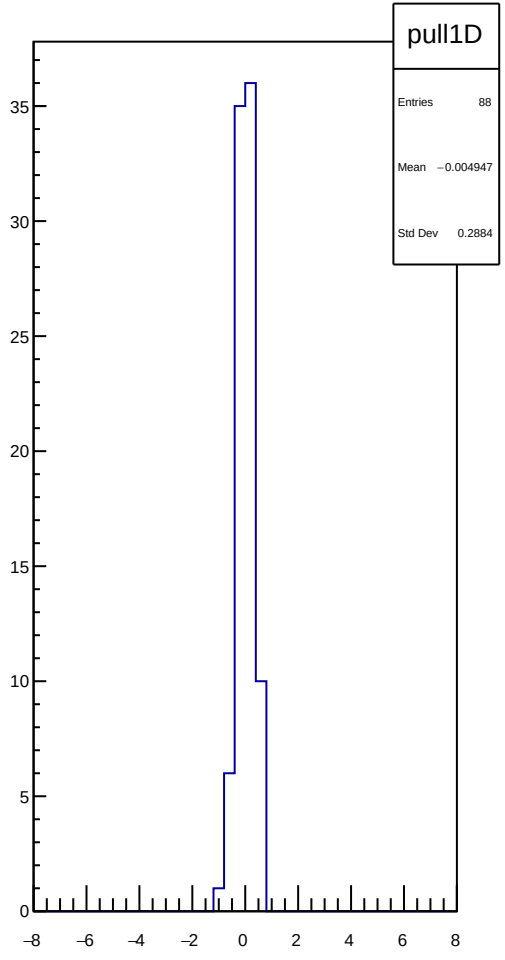

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.88 / 87
p0 90.28 ± 0.5299
100
95
90
85
80
pull
Entries 88
Mean −95.23
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 88
Mean −0.01136
Std Dev 0.5316
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

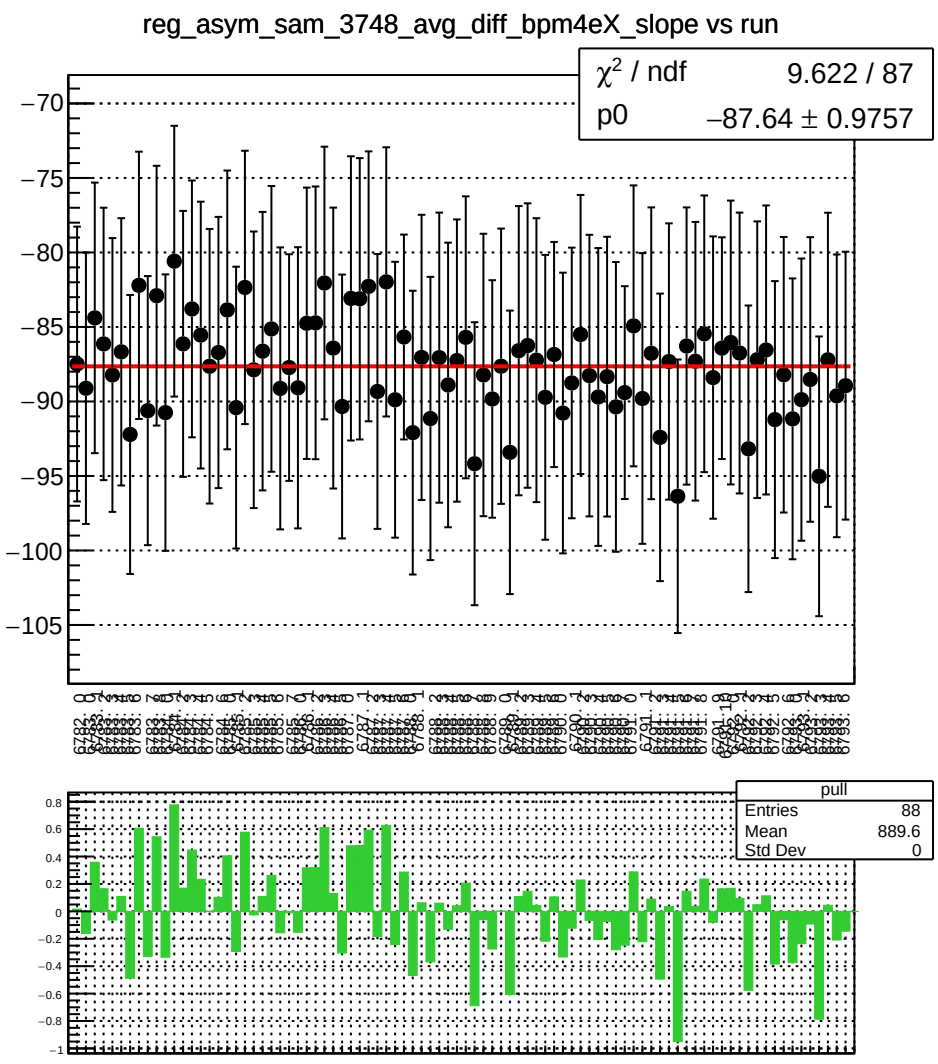

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 7.019 / 87
p0 −0.1456 ± 0.03451
pull
Entries 88
Mean 1329
Std Dev 0
pull1D
Entries 88
Mean 0.00177
Std Dev 0.2824

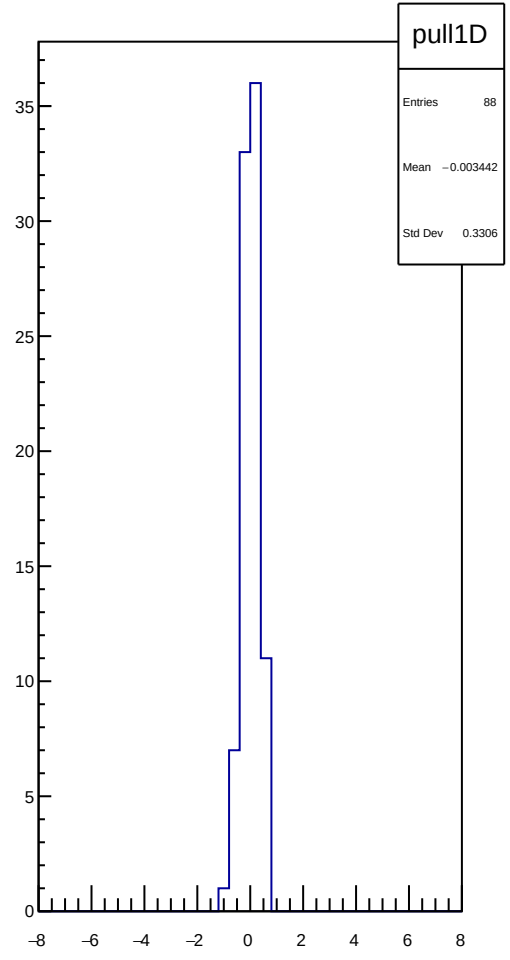

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.778 / 87
p0 −6.894 ± 1.046
pull
Entries 88
Mean 2565
Std Dev 0

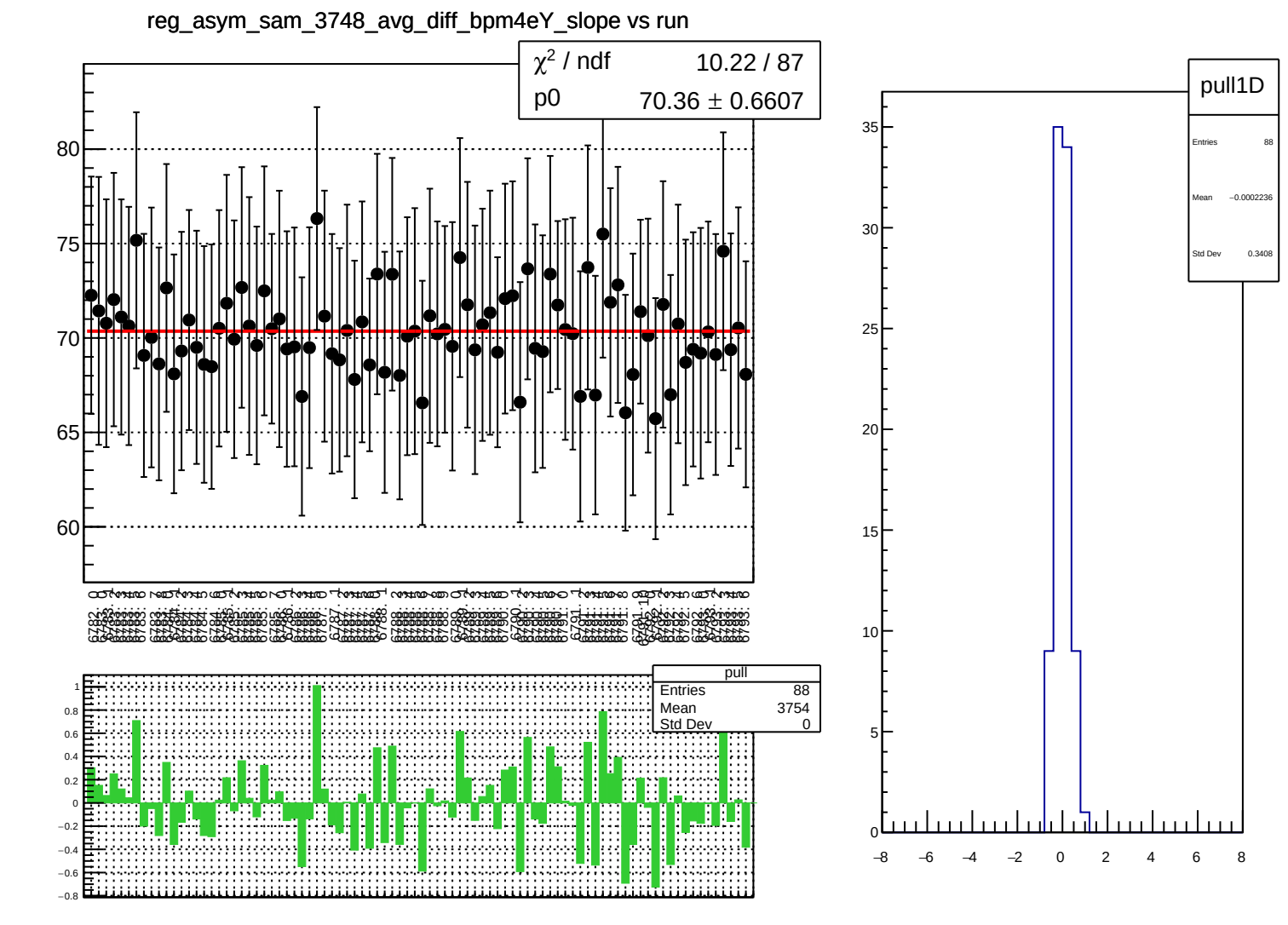

pull1D
Entries 88
Mean 0.0006079
Std Dev 0.233

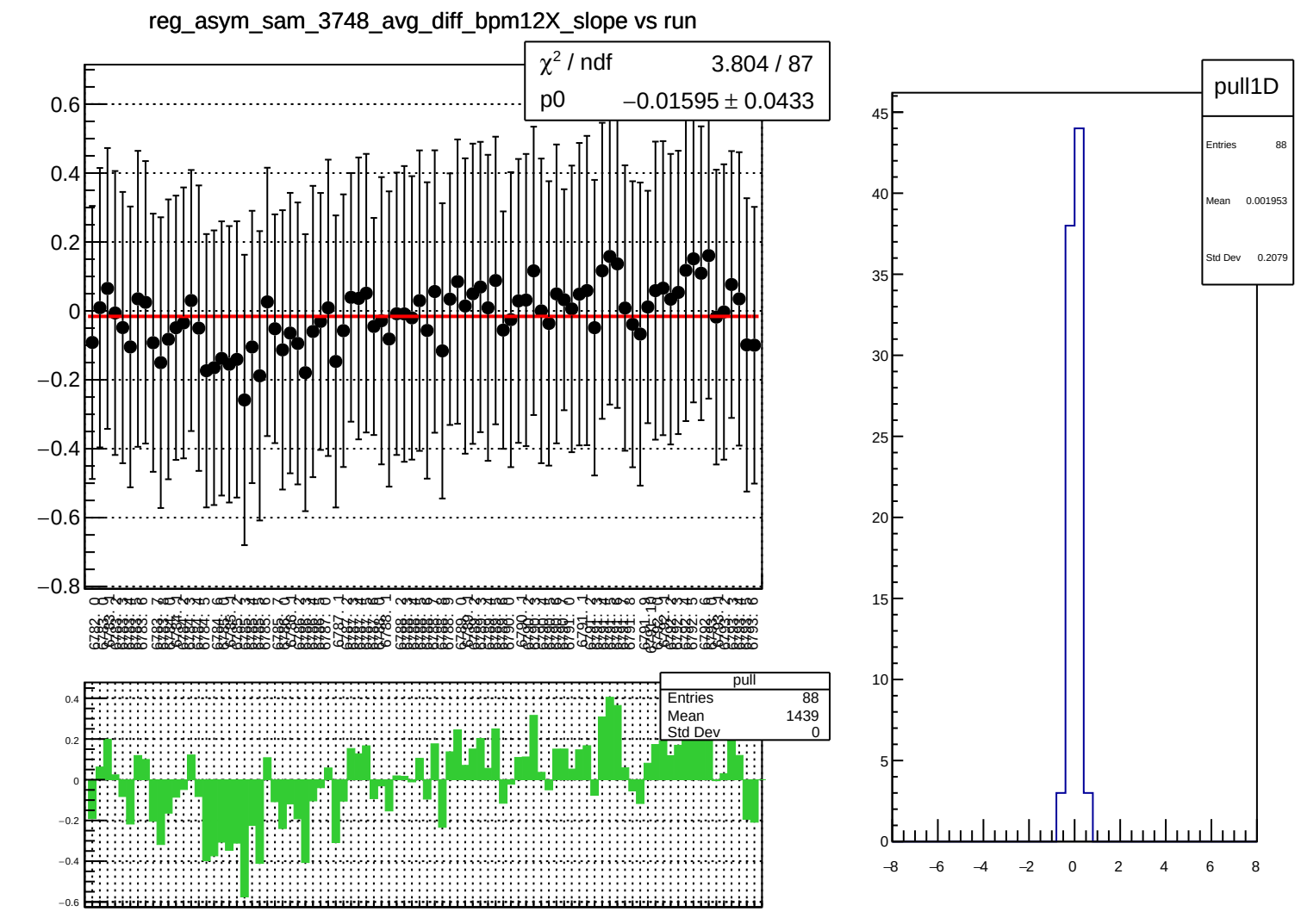

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.322 / 87
p0 −8.513 ± 0.4825
pull
Entries 88
Mean −448.6
Std Dev 0

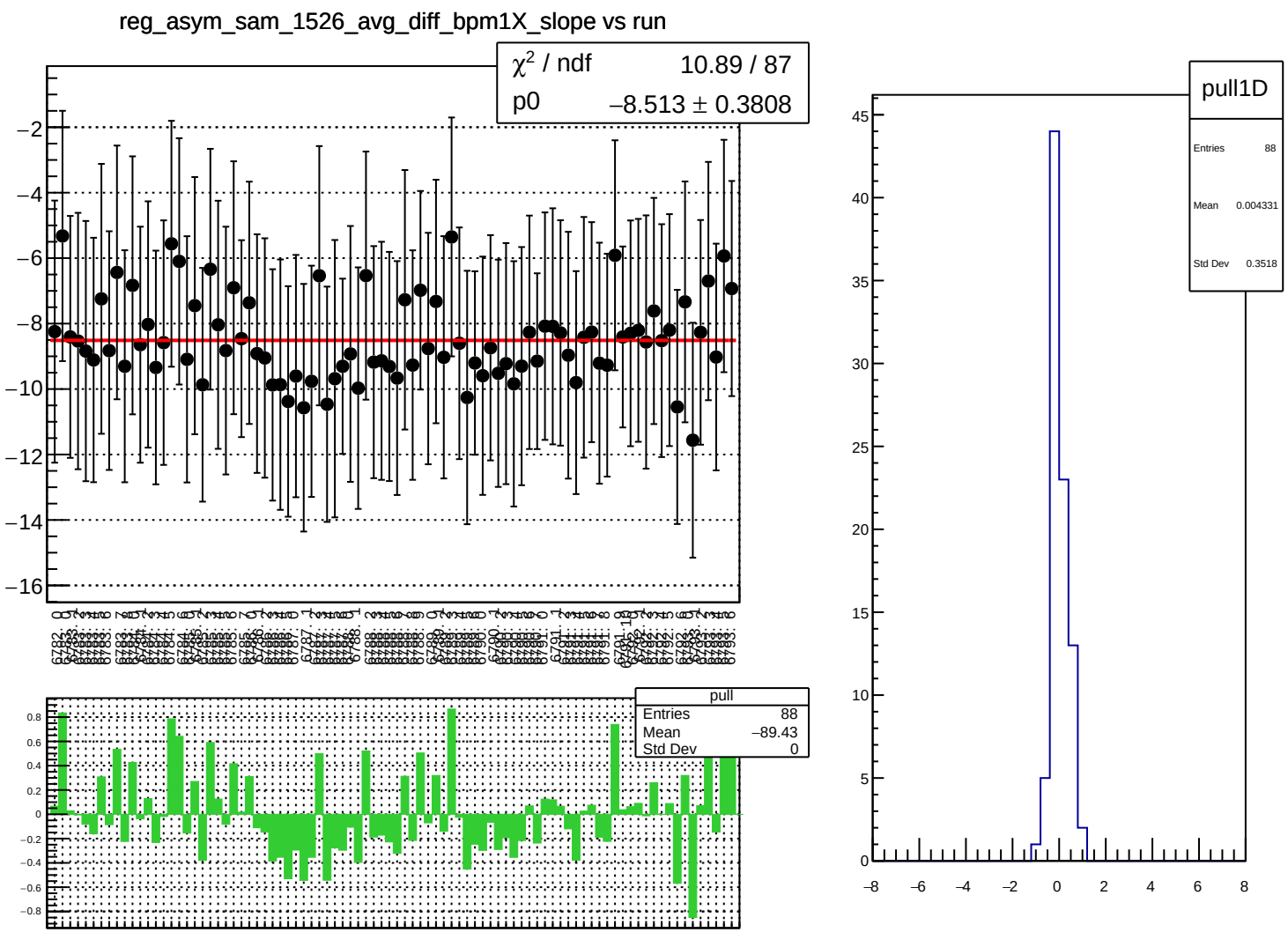

pull1D
Entries 88
Mean −0.004947
Std Dev 0.2884

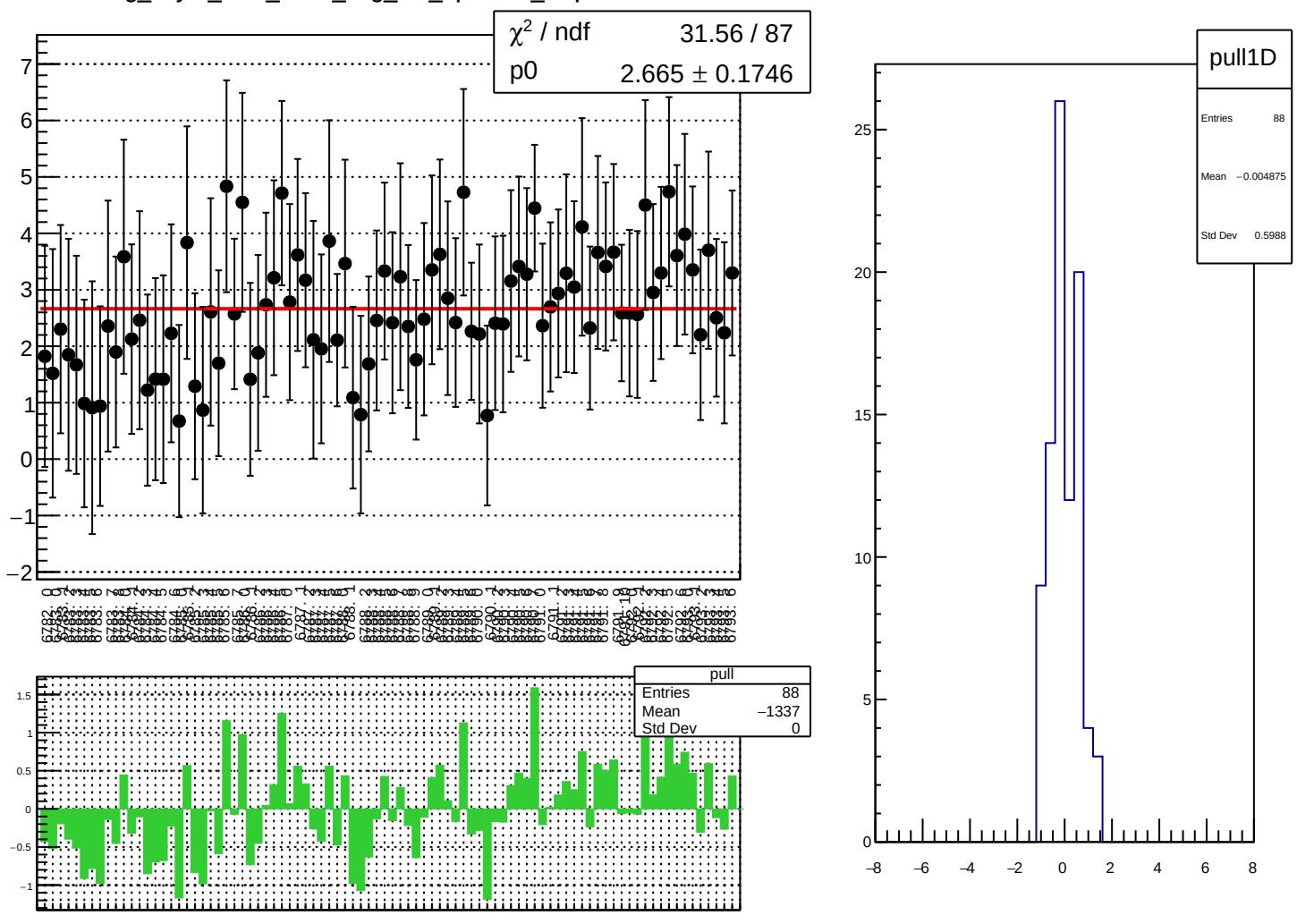

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.622 / 87
p0 −87.64 ± 0.9757
pull
Entries 88
Mean 889.6
Std Dev 0

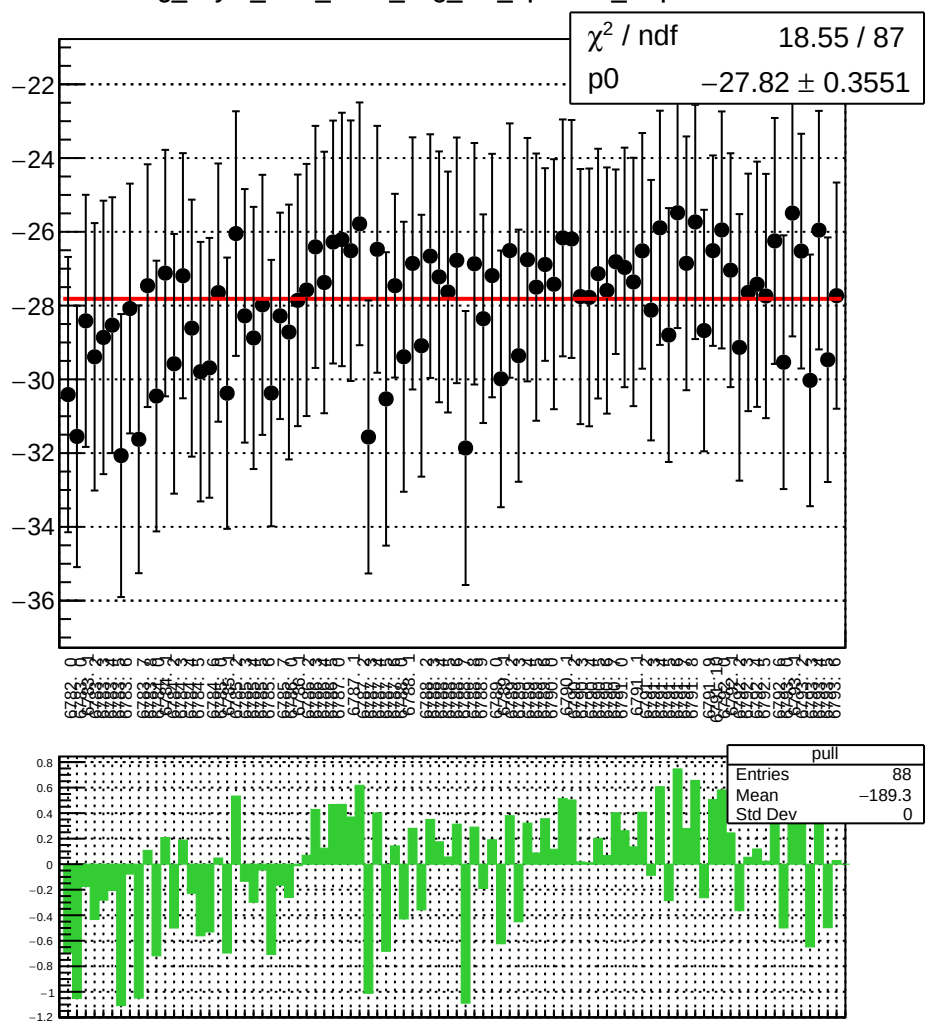

pull1D
Entries 88
Mean −0.003442
Std Dev 0.3306

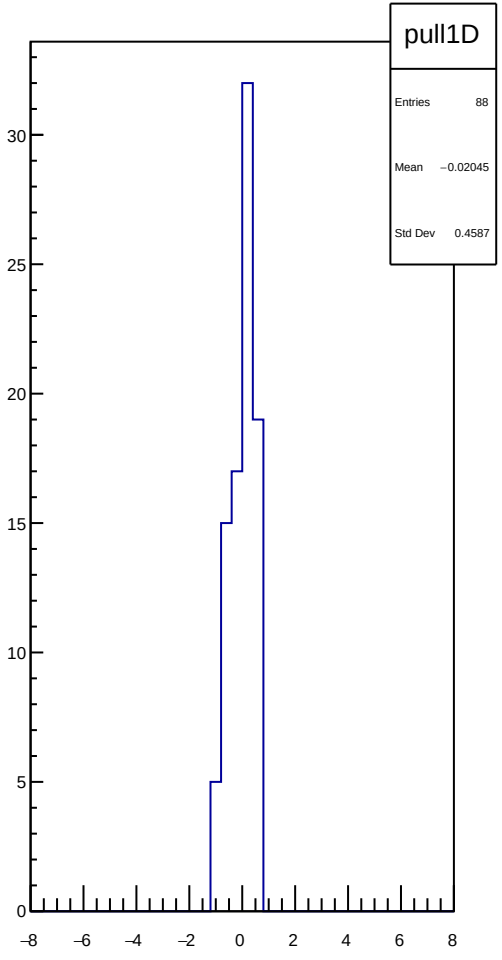

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.22 / 87
p0 70.36 ± 0.6607
pull
Entries 88
Mean 3754
Std Dev 0
pull1D
Entries 88
Mean −0.0002236
Std Dev 0.3408

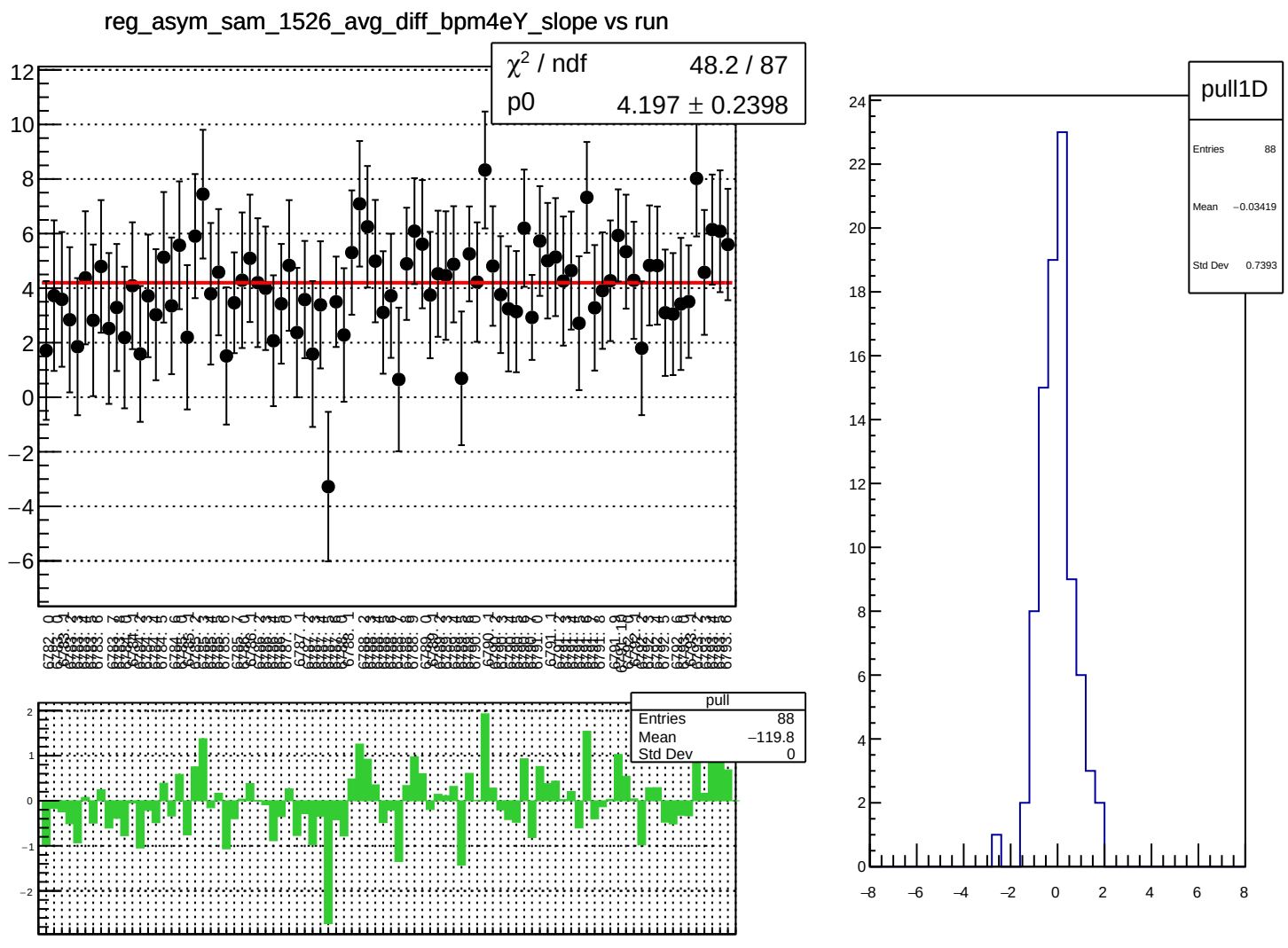

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.804 / 87
p0 −0.01595 ± 0.0433
pull
Entries 88
Mean 1439
Std Dev 0
pull1D
Entries 88
Mean 0.001953
Std Dev 0.2079

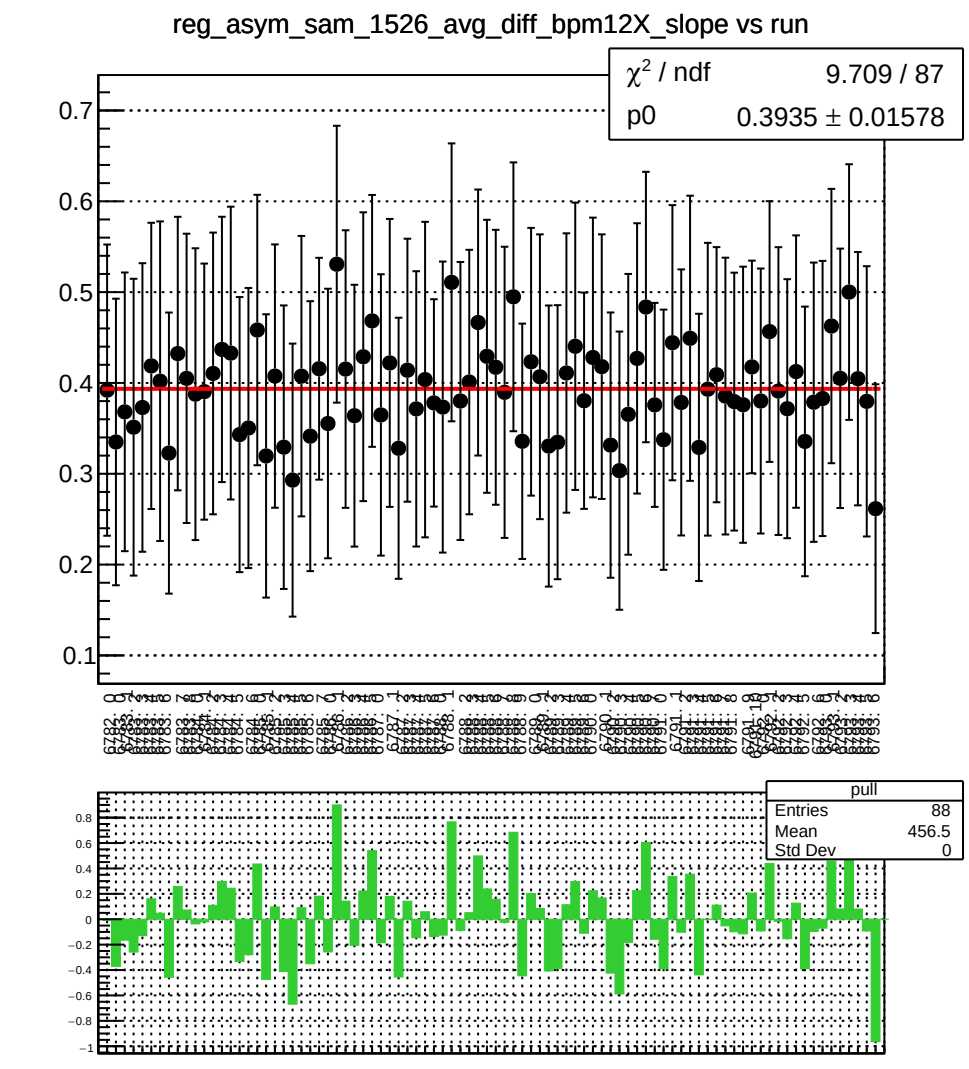

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 10.89 / 87
p0 −8.513 ± 0.3808
pull
Entries 88
Mean −89.43
Std Dev 0
pull1D
Entries 88
Mean 0.004331
Std Dev 0.3518

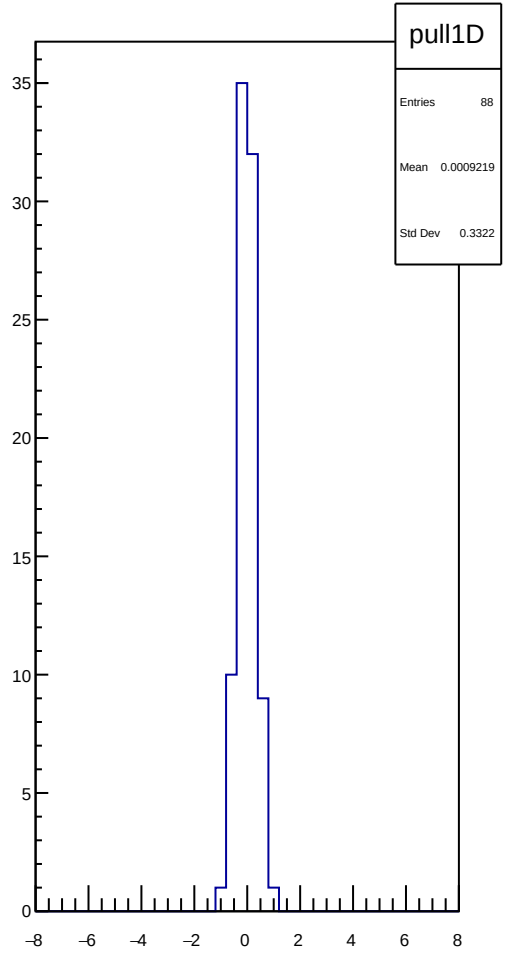

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.56 / 87
p0 2.665 ± 0.1746
pull
Entries 88
Mean −1337
Std Dev 0
pull1D
Entries 88
Mean −0.004875
Std Dev 0.5988

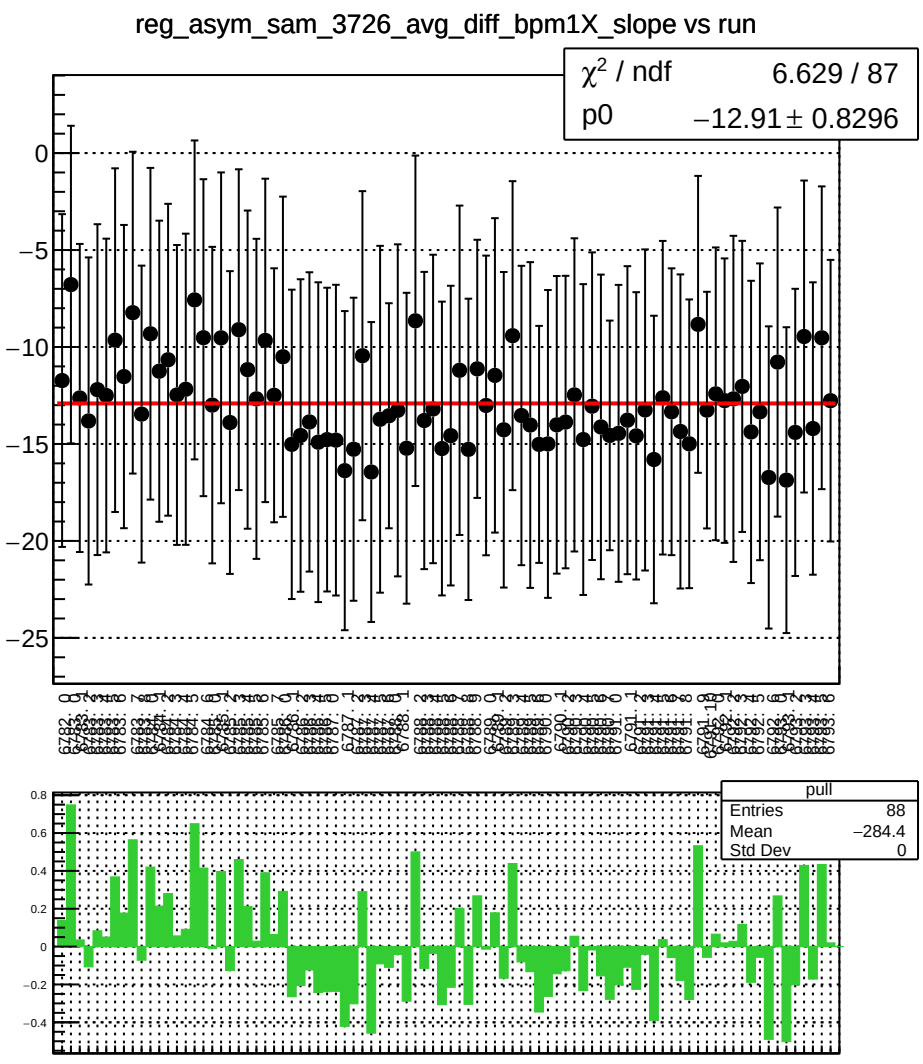

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.55 / 87
p0 −27.82 ± 0.3551
pull
Entries 88
Mean −189.3
Std Dev 0

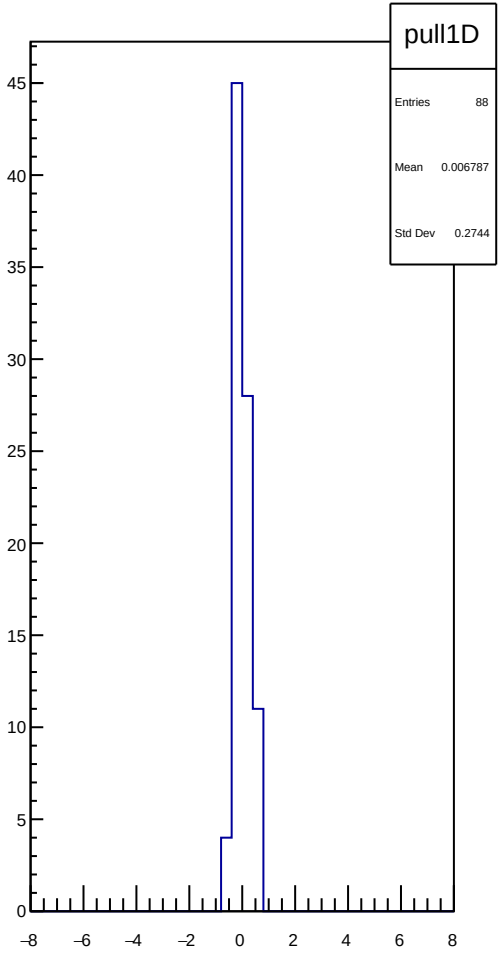

pull1D
Entries 88
Mean −0.02045
Std Dev 0.4587

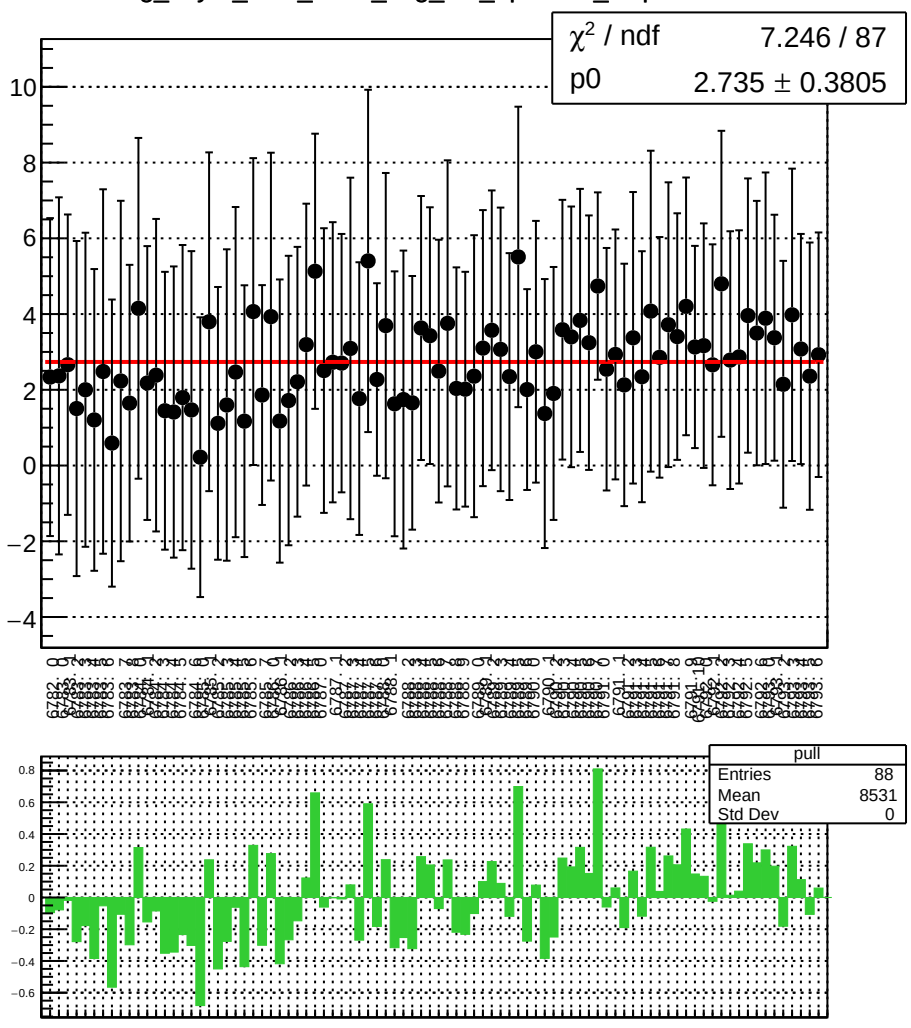

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.2 / 87
p0 4.197 ± 0.2398
pull
Entries 88
Mean −119.8
Std Dev 0
pull1D
Entries 88
Mean −0.03419
Std Dev 0.7393

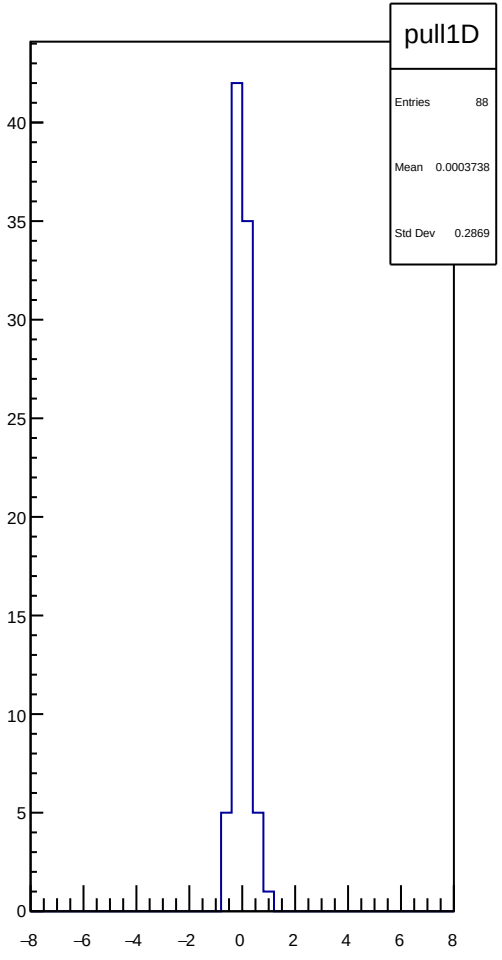

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 9.709 / 87
p0 0.3935 ± 0.01578
pull
Entries 88
Mean 456.5
Std Dev 0

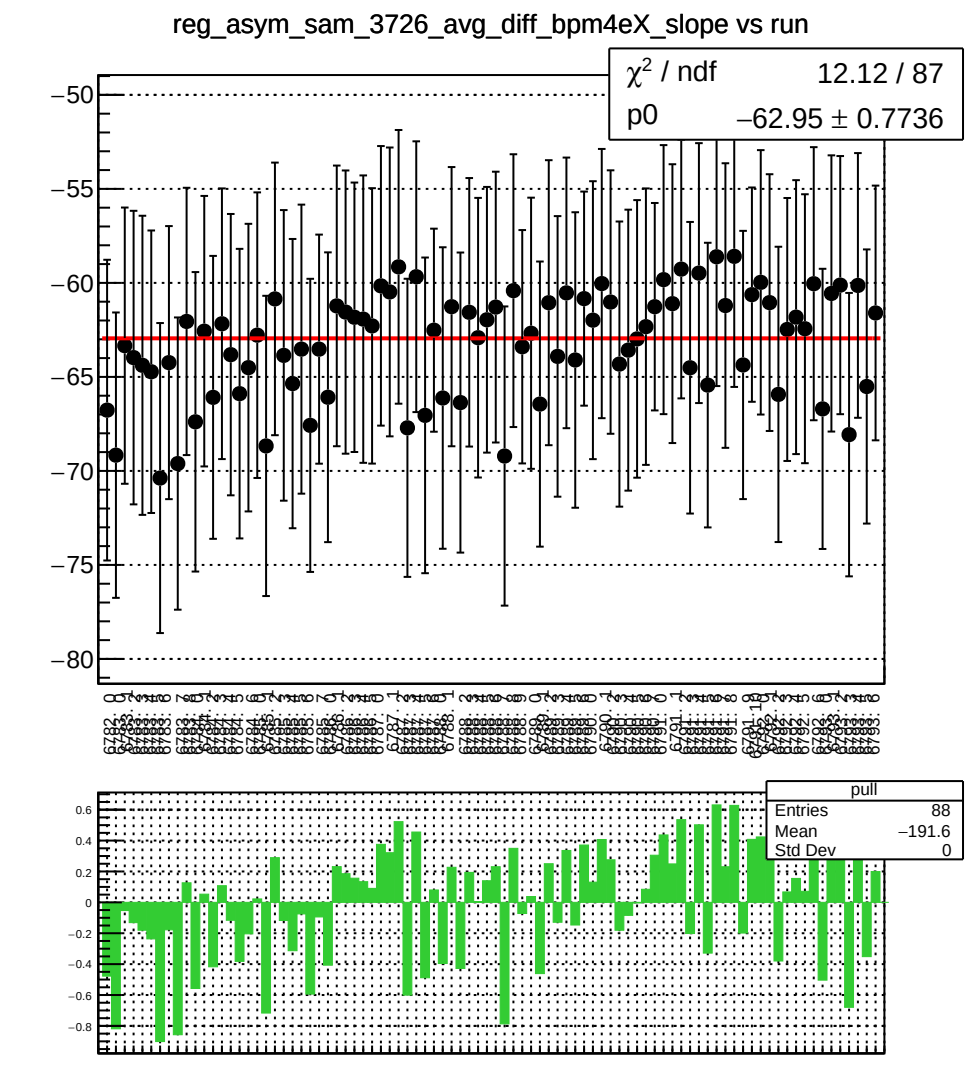

pull1D
Entries 88
Mean 0.0009219
Std Dev 0.3322

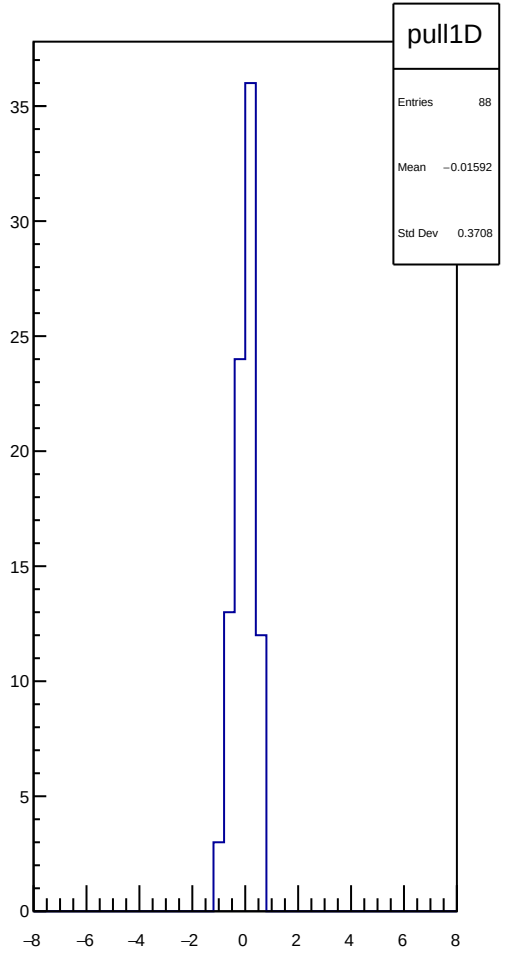

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 6.629 / 87
p0 −12.91 ± 0.8296
pull
Entries 88
Mean −284.4
Std Dev 0

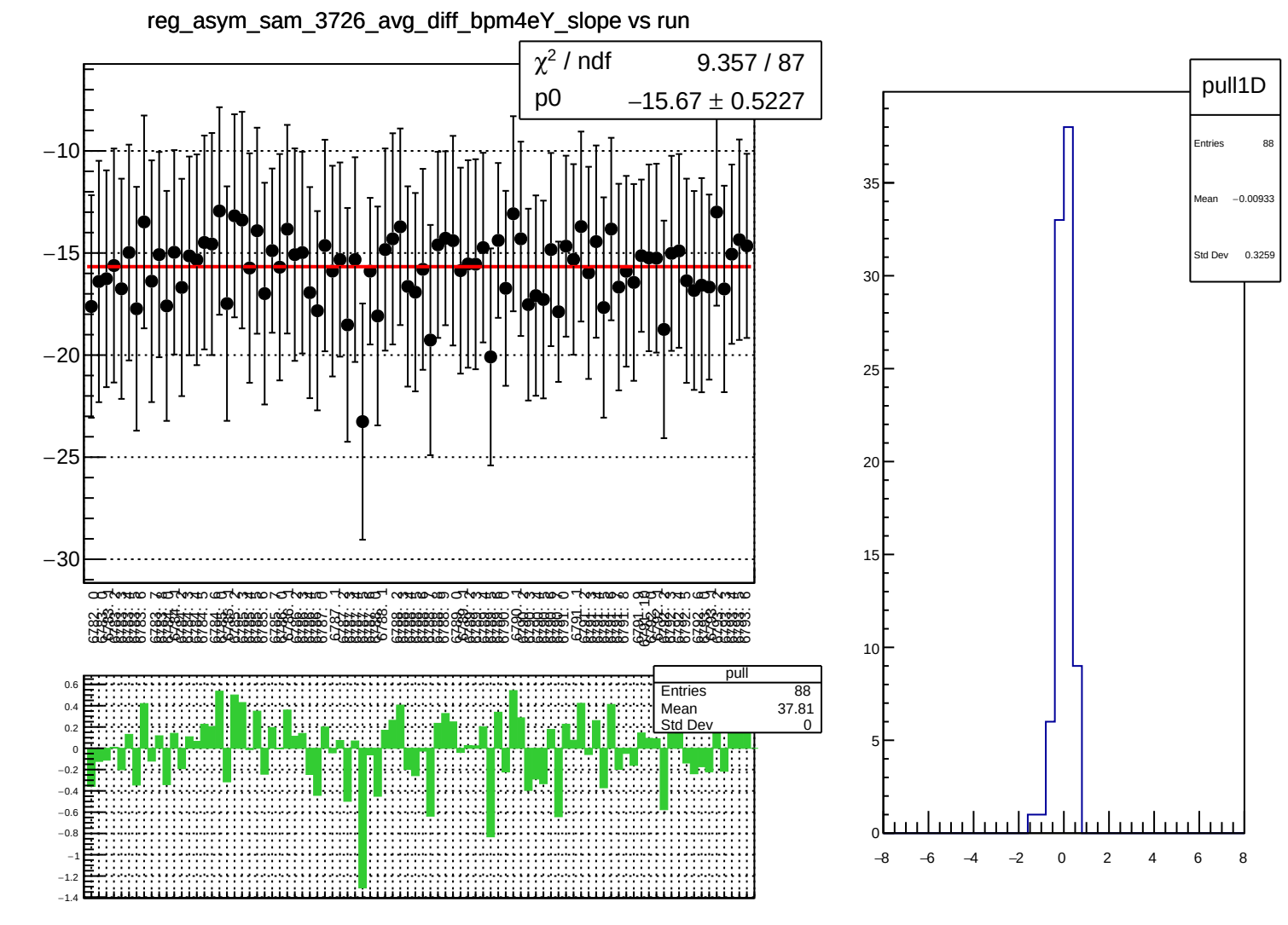

pull1D
Entries 88
Mean 0.006787
Std Dev 0.2744

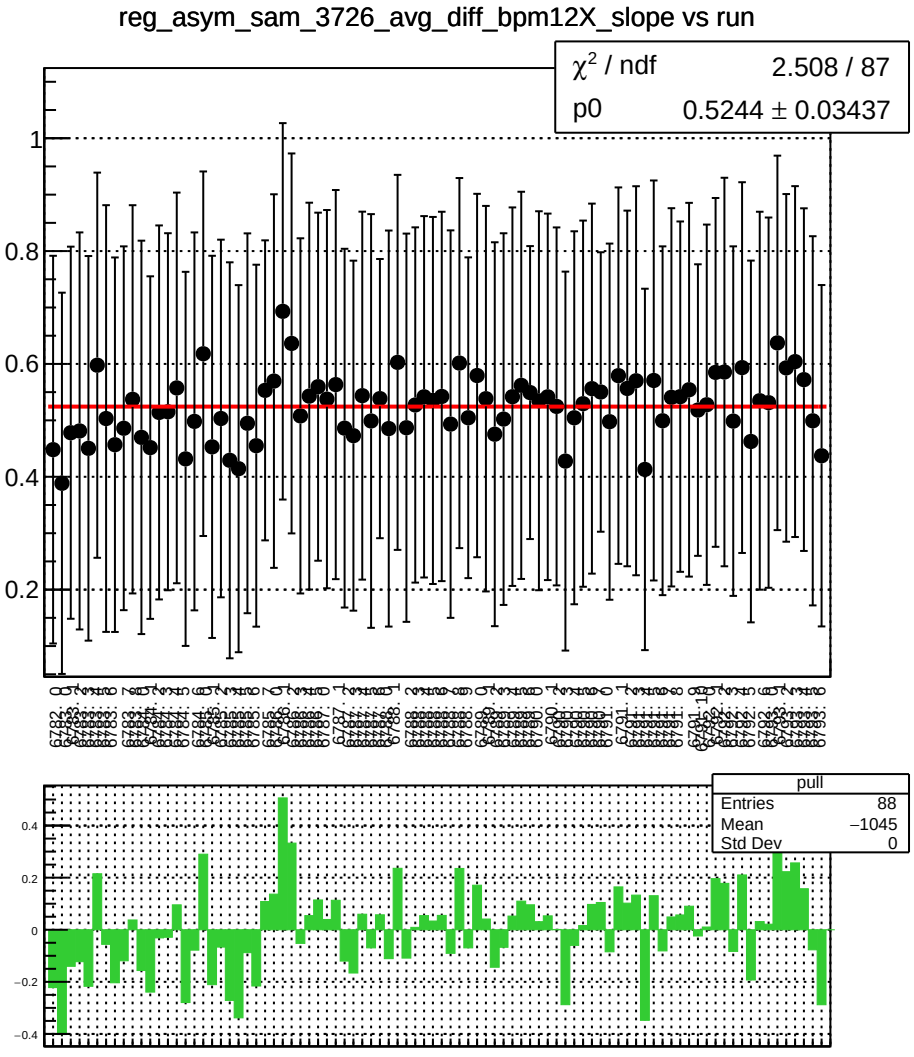

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.246 / 87
p0 2.735 ± 0.3805
pull
Entries 88
Mean 8531
Std Dev 0

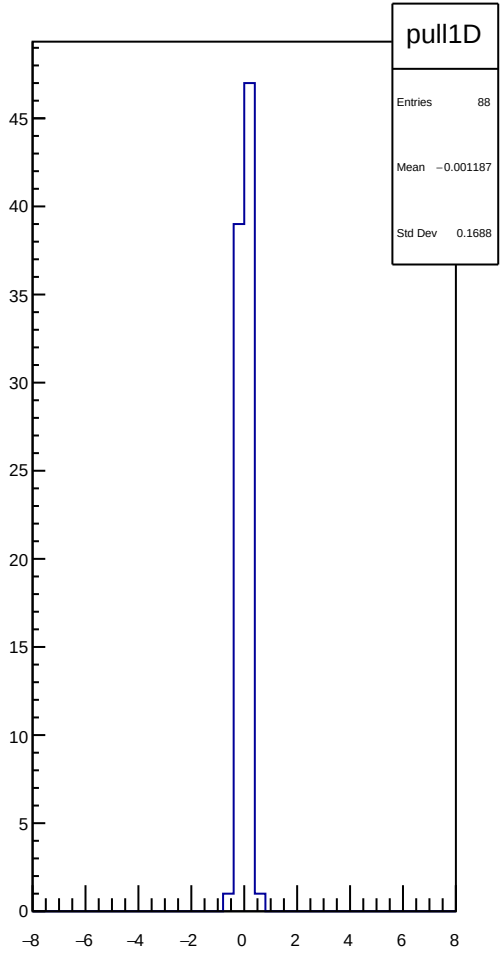

pull1D
Entries 88
Mean 0.0003738
Std Dev 0.2869

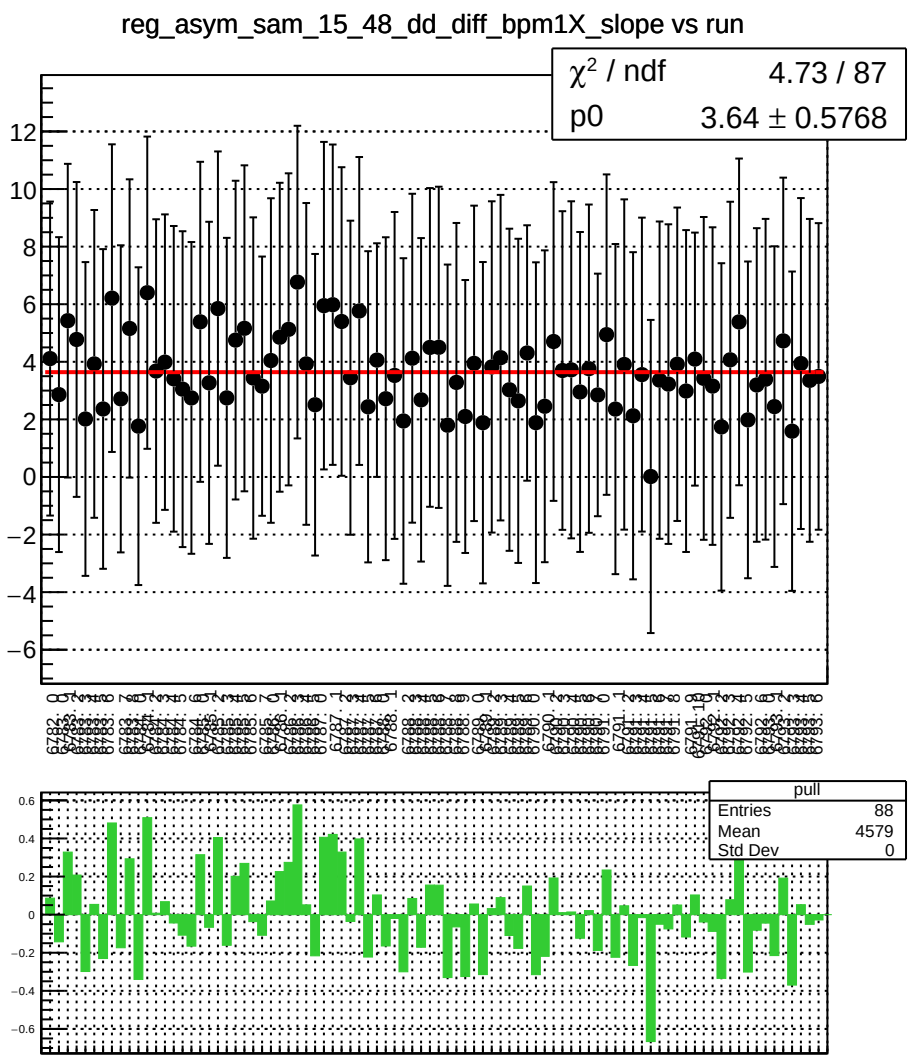

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.12 / 87
p0 −62.95 ± 0.7736
pull
Entries 88
Mean −191.6
Std Dev 0

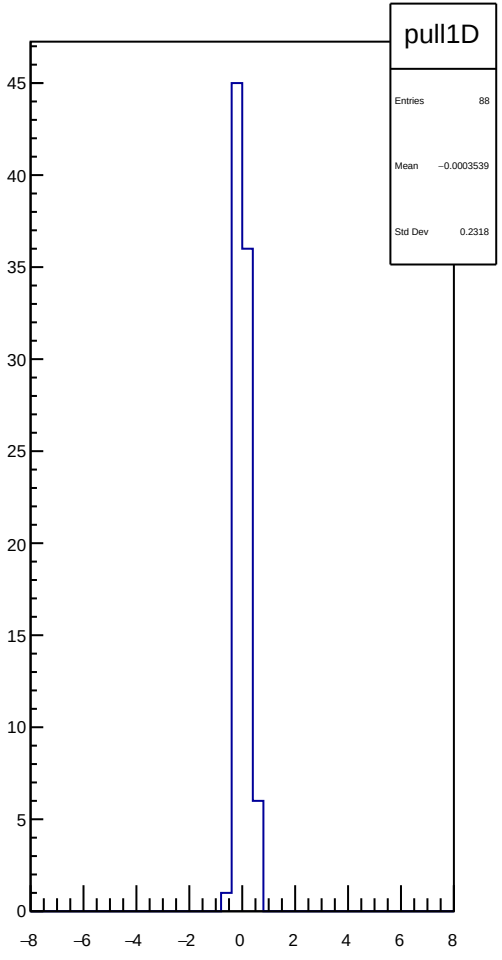

pull1D
Entries 88
Mean −0.01592
Std Dev 0.3708

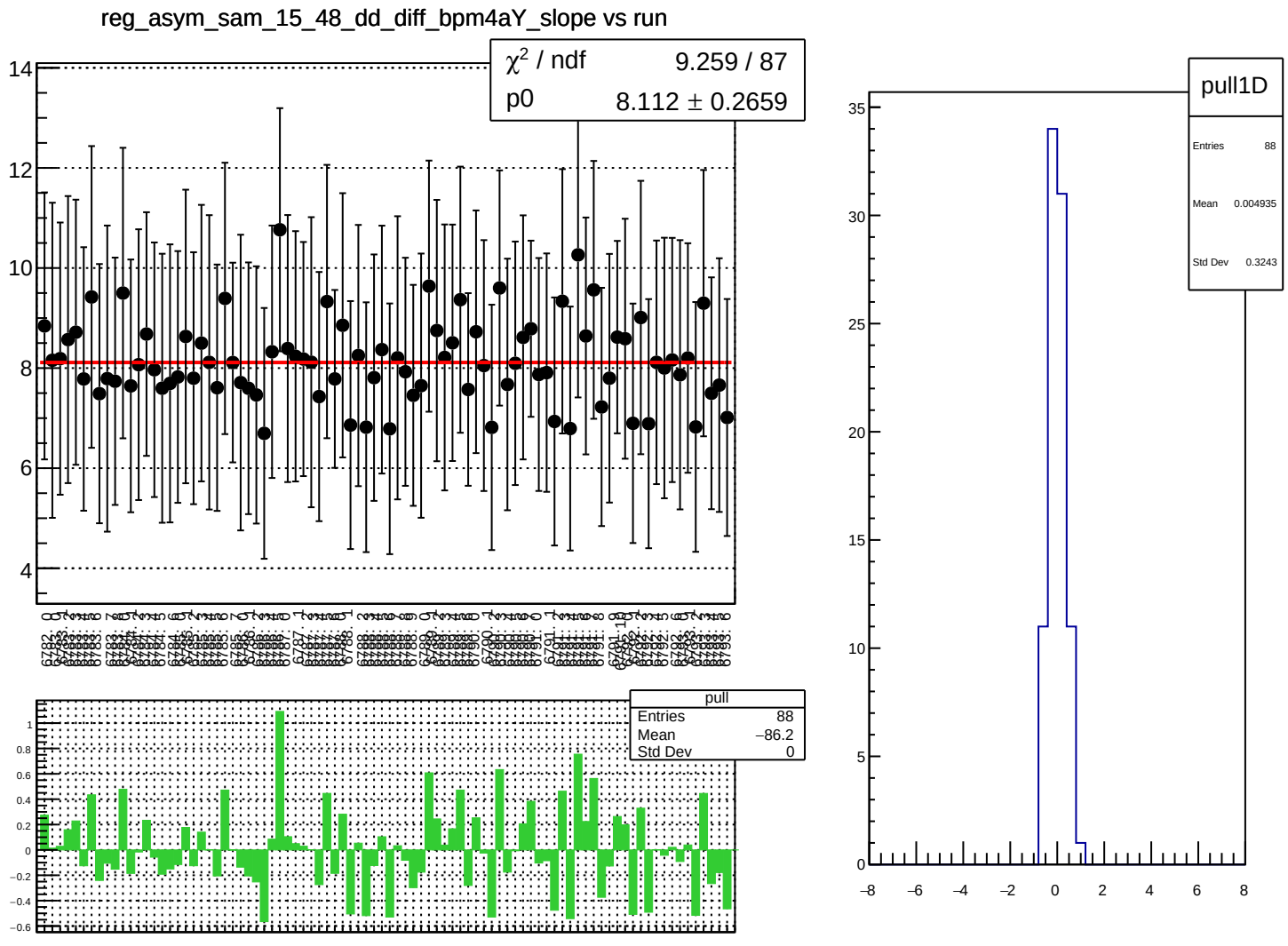

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.357 / 87
p0 −15.67 ± 0.5227
pull
Entries 88
Mean 37.81
Std Dev 0
pull1D
Entries 88
Mean −0.00933
Std Dev 0.3259

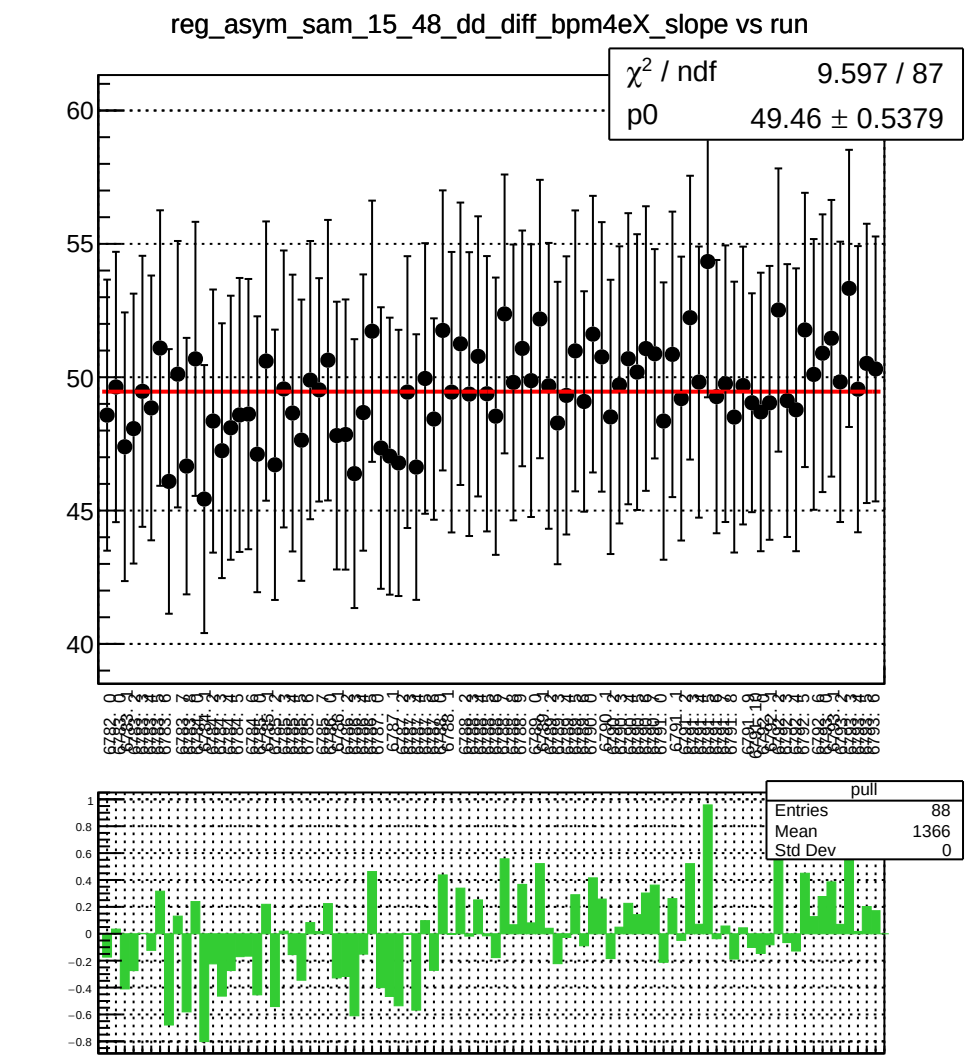

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.508 / 87
p0 0.5244 ± 0.03437
pull
Entries 88
Mean −1045
Std Dev 0

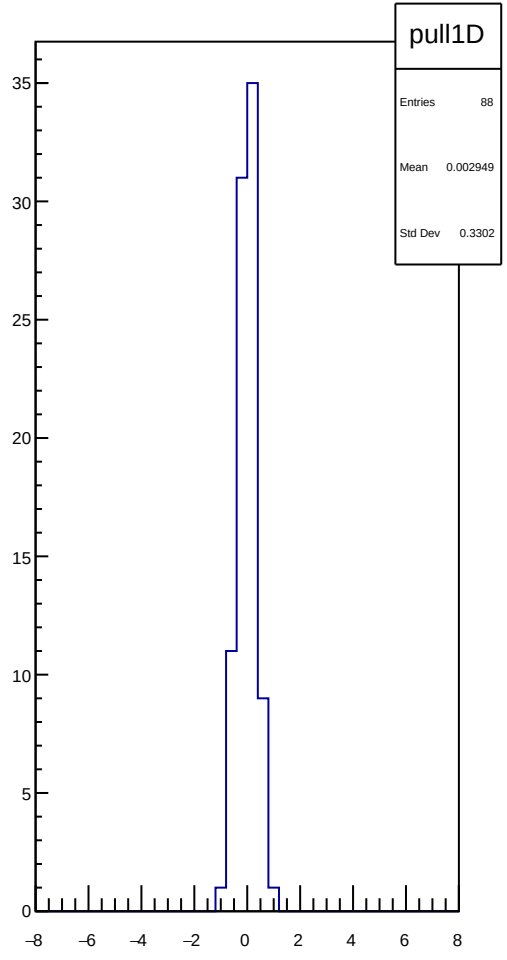

pull1D
Entries 88
Mean −0.001187
Std Dev 0.1688

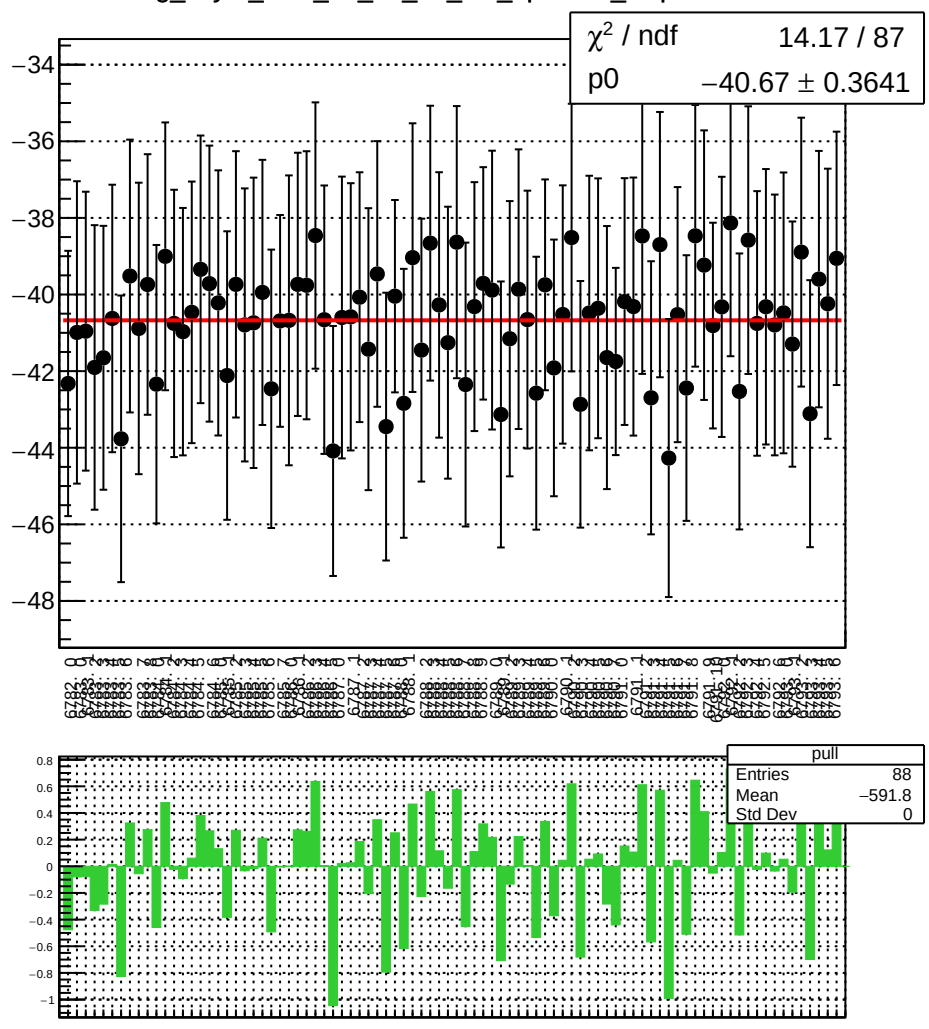

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.73 / 87
p0 3.64 ± 0.5768
pull
Entries 88
Mean 4579
Std Dev 0

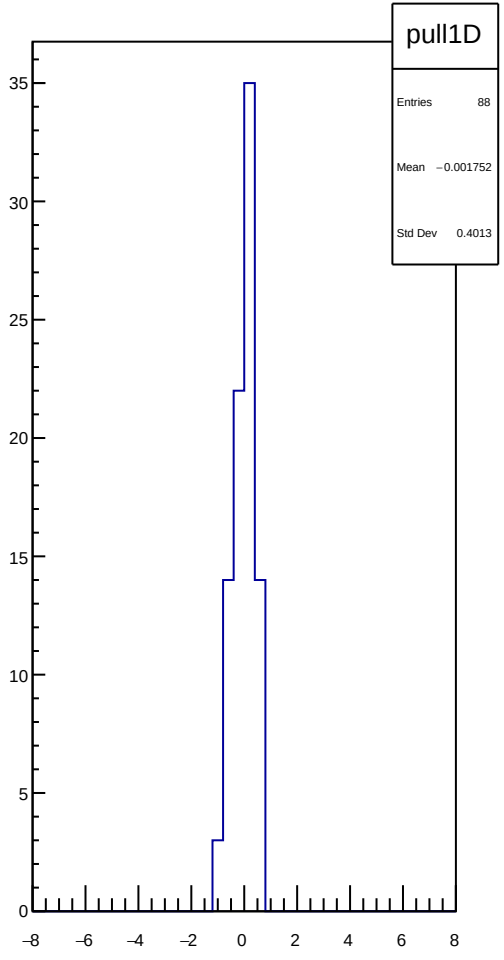

pull1D
Entries 88
Mean −0.0003539
Std Dev 0.2318

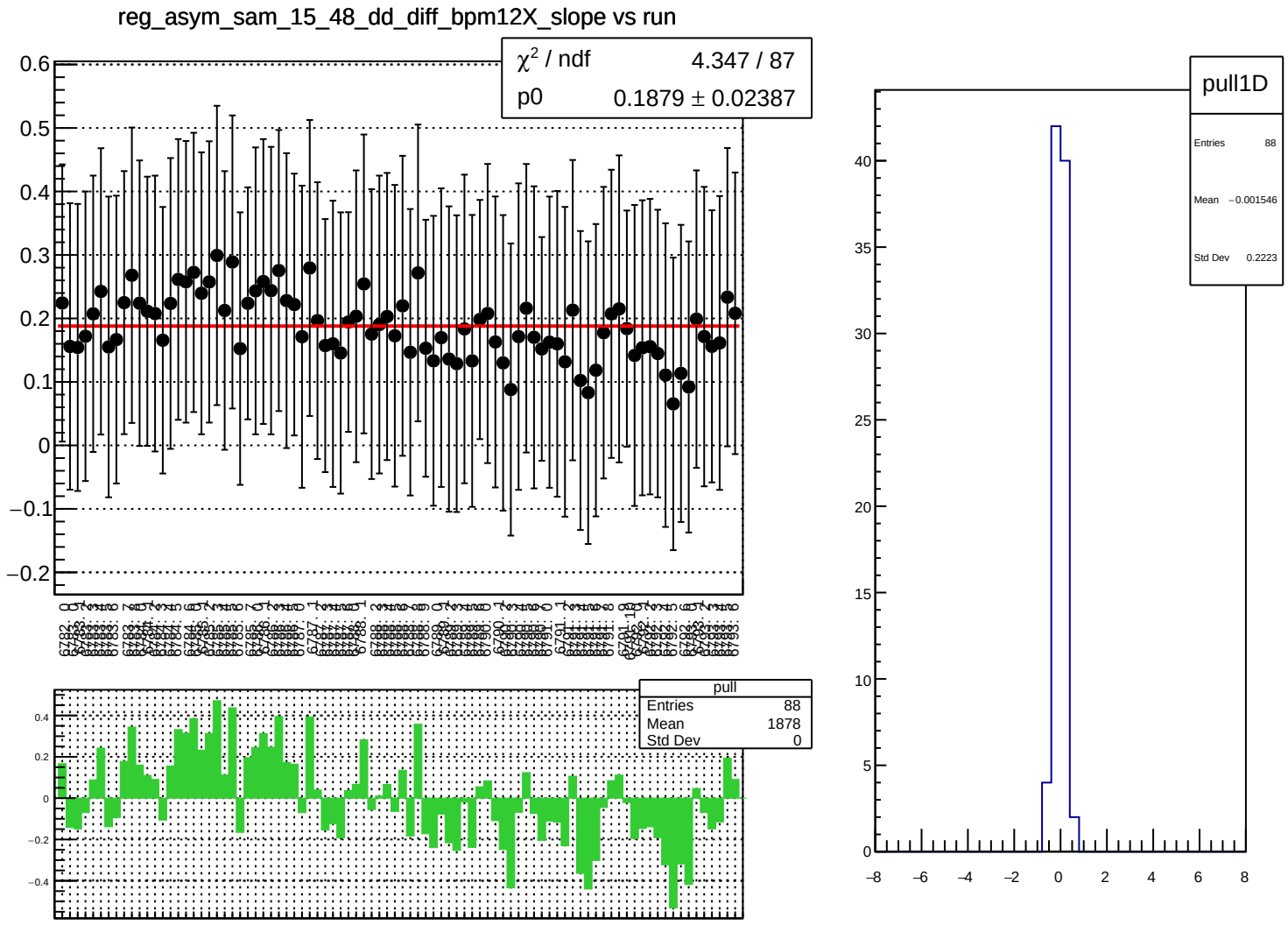

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.259 / 87
p0 8.112 ± 0.2659
pull
Entries 88
Mean −86.2
Std Dev 0
pull1D
Entries 88
Mean 0.004935
Std Dev 0.3243

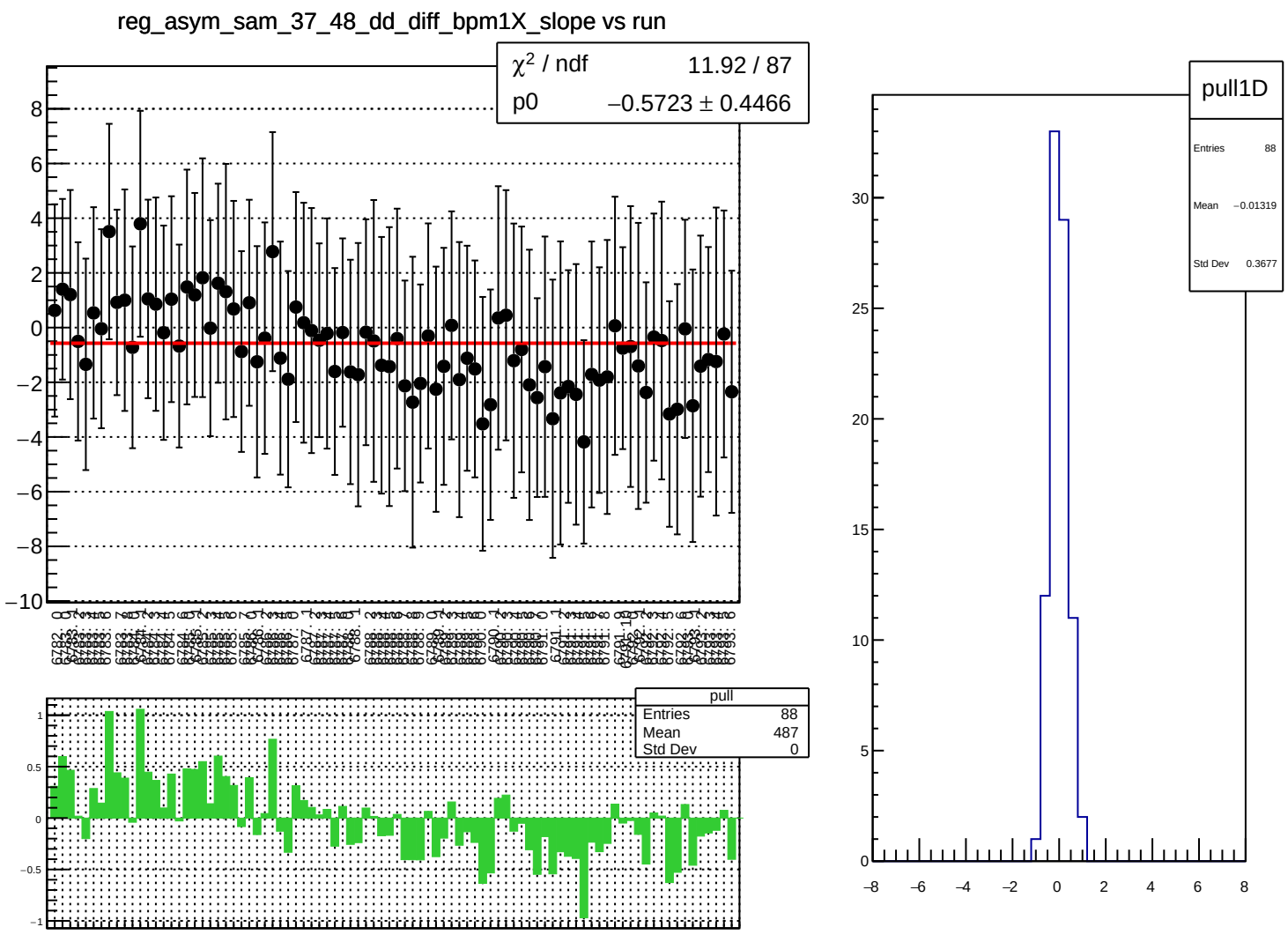

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.597 / 87
p0 49.46 ± 0.5379
pull
Entries 88
Mean 1366
Std Dev 0

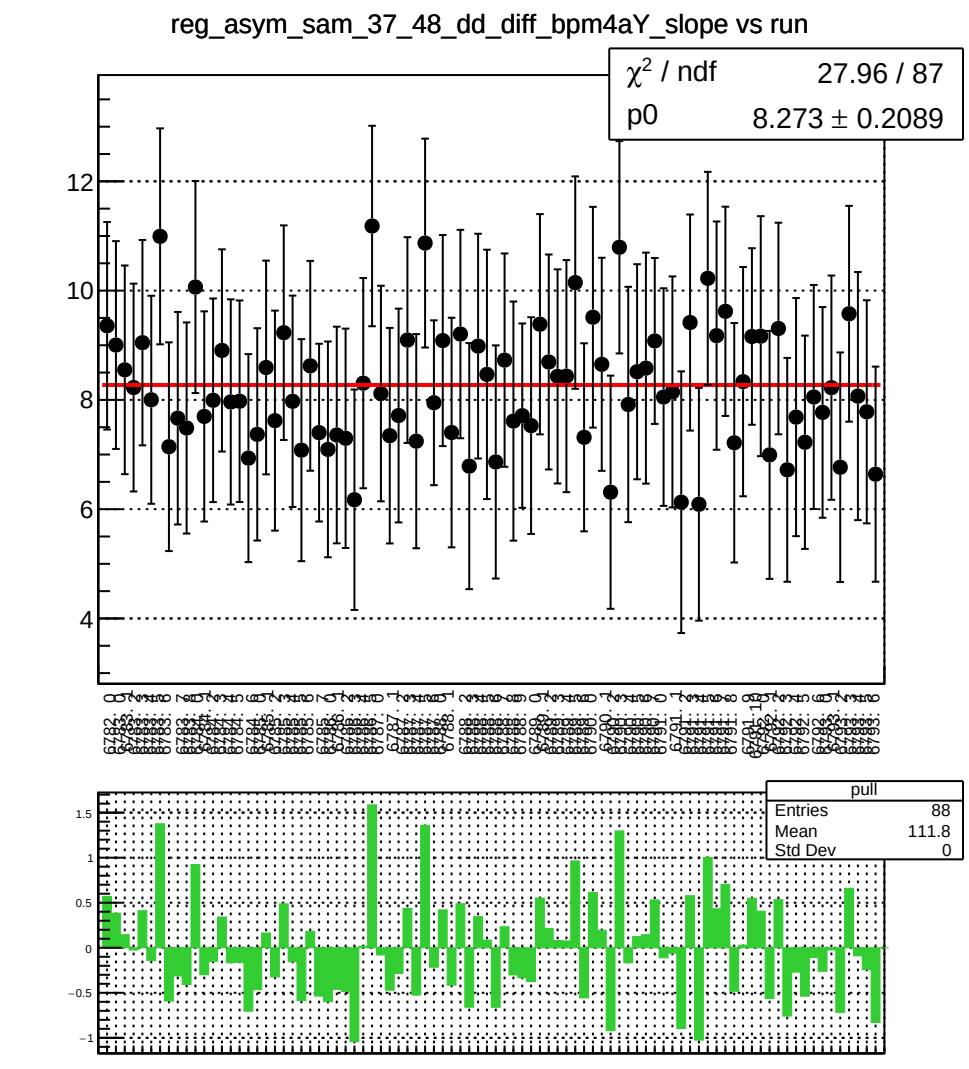

pull1D
Entries 88
Mean 0.002949
Std Dev 0.3302

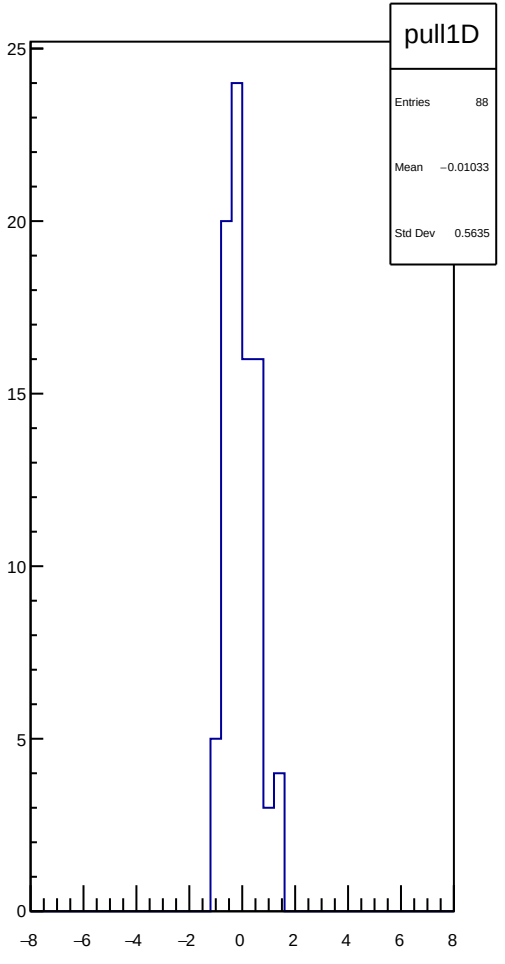

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.17 / 87
p0 −40.67 ± 0.3641
pull
Entries 88
Mean −591.8
Std Dev 0

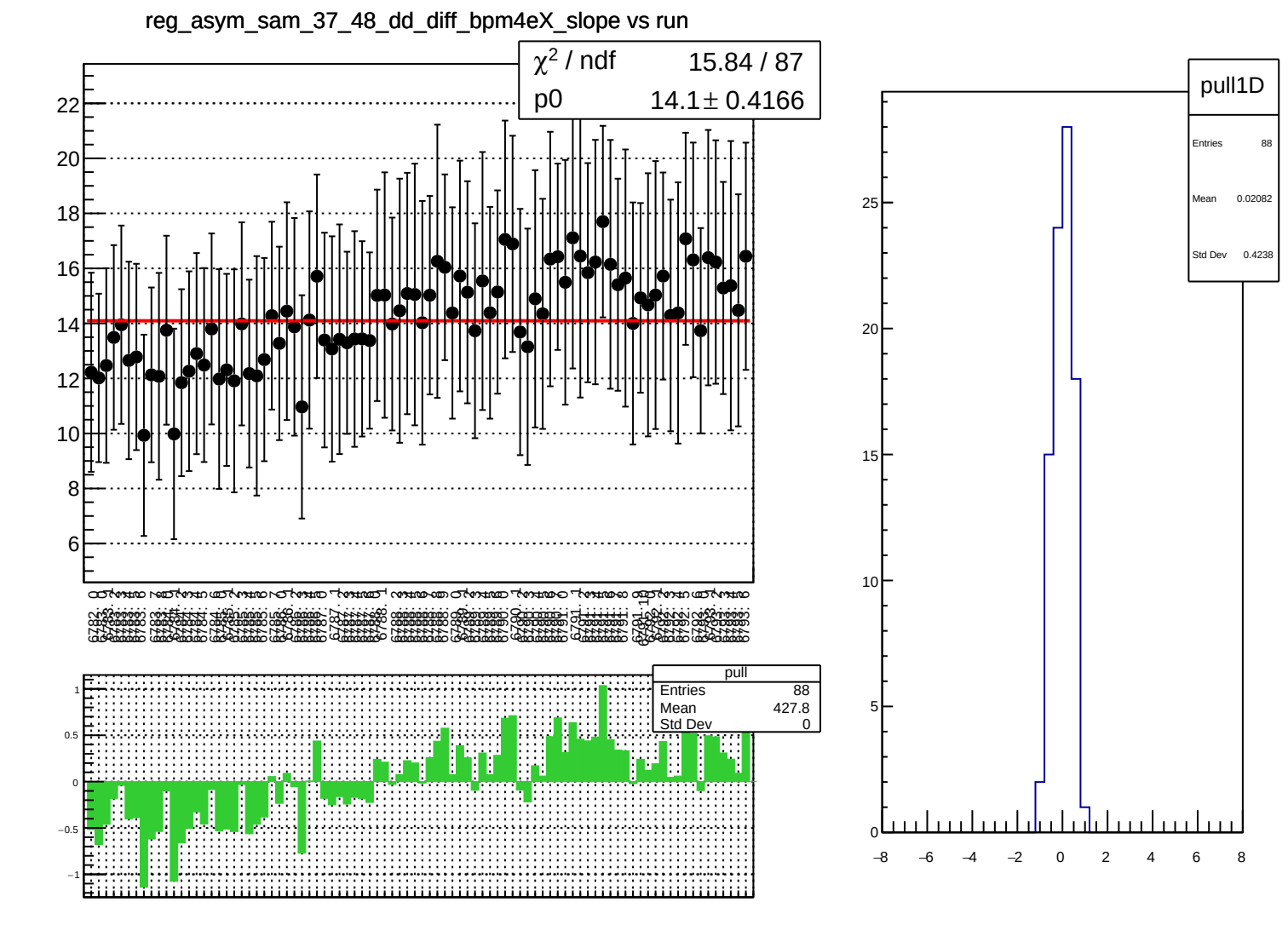

pull1D
Entries 88
Mean −0.001752
Std Dev 0.4013

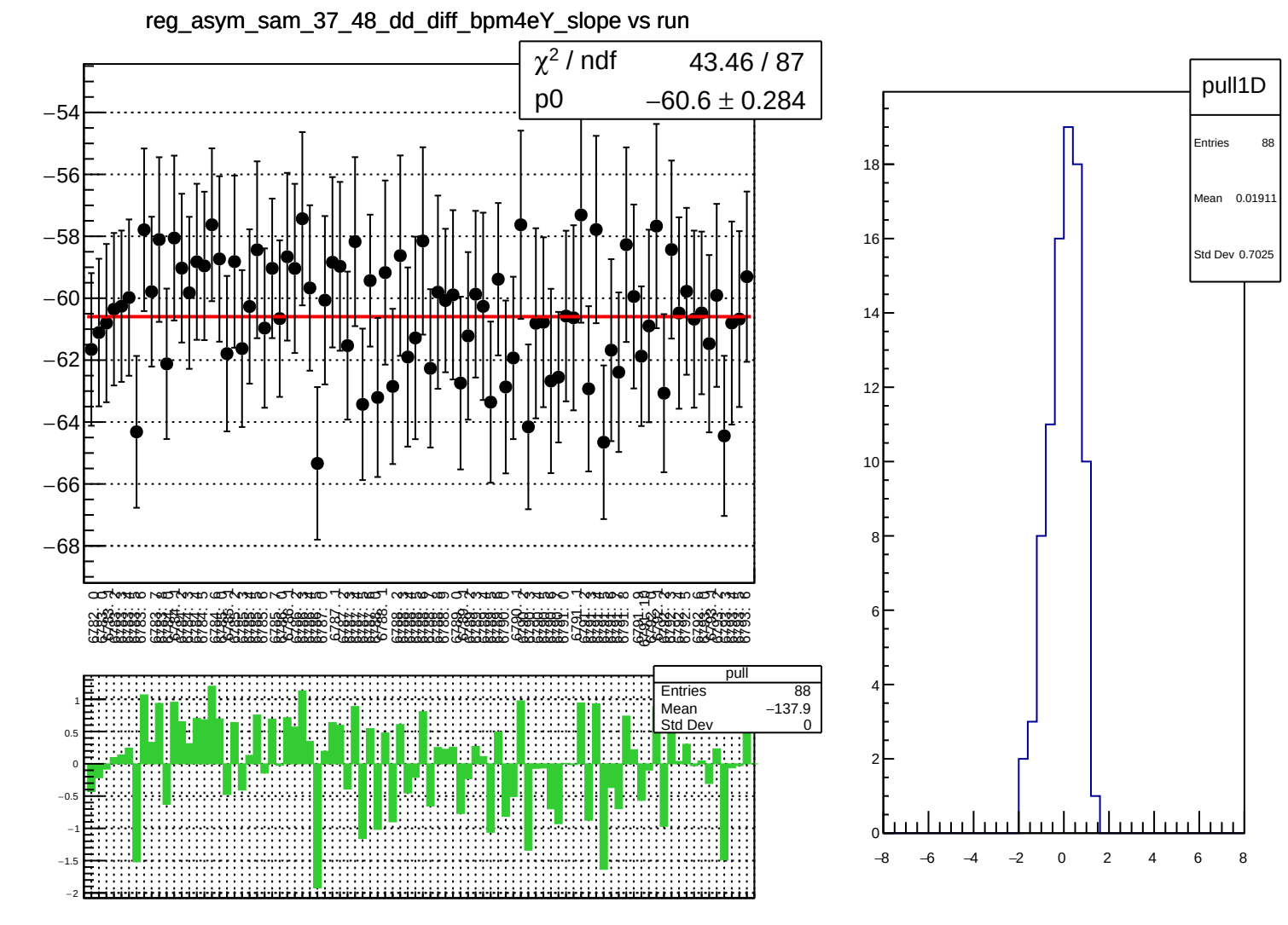

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.347 / 87
p0 0.1879 ± 0.02387
pull
Entries 88
Mean 1878
Std Dev 0
pull1D
Entries 88
Mean −0.001546
Std Dev 0.2223

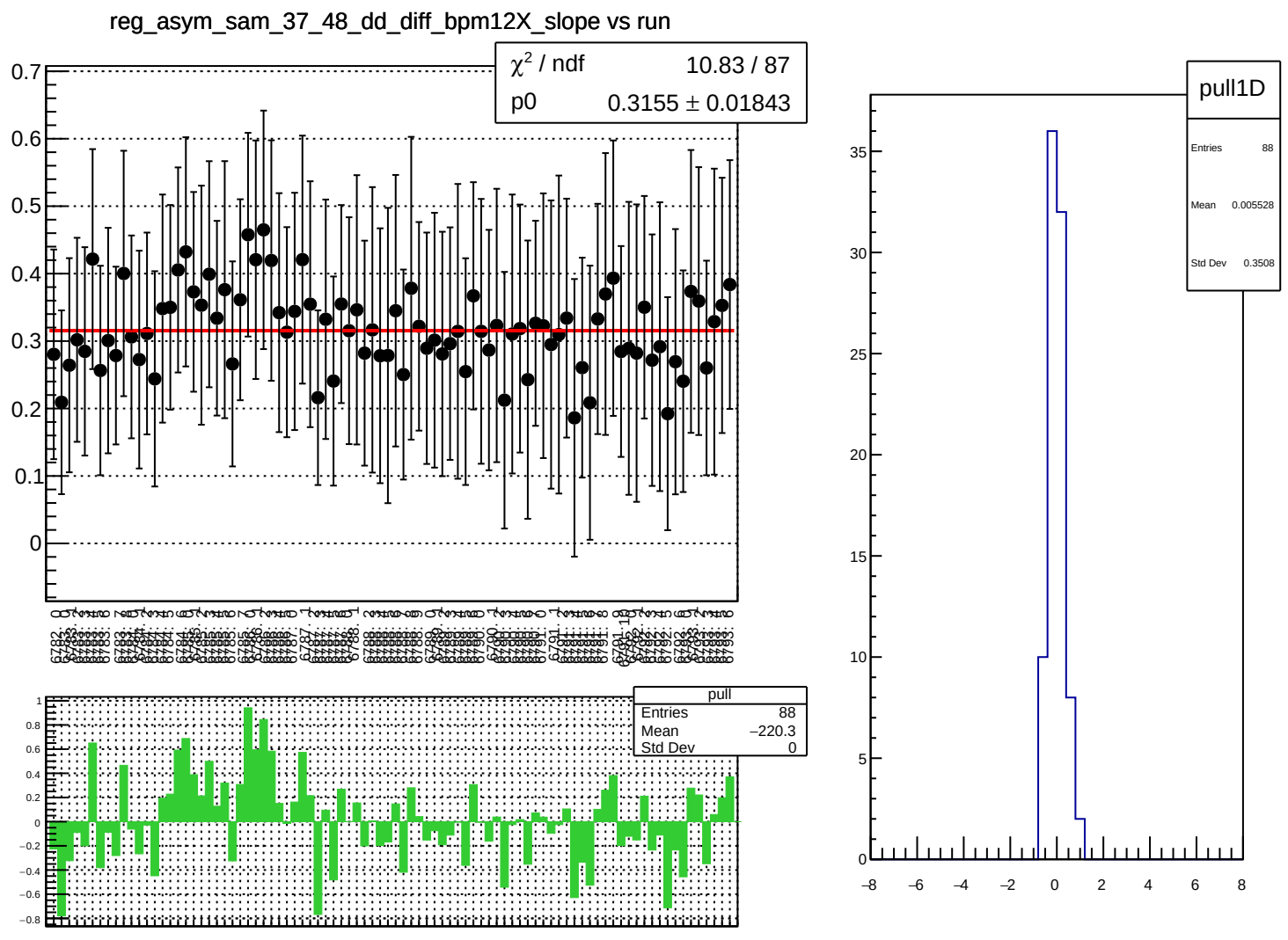

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 11.92 / 87
p0 −0.5723 ± 0.4466
pull
Entries 88
Mean 487
Std Dev 0
pull1D
Entries 88
Mean −0.01319
Std Dev 0.3677

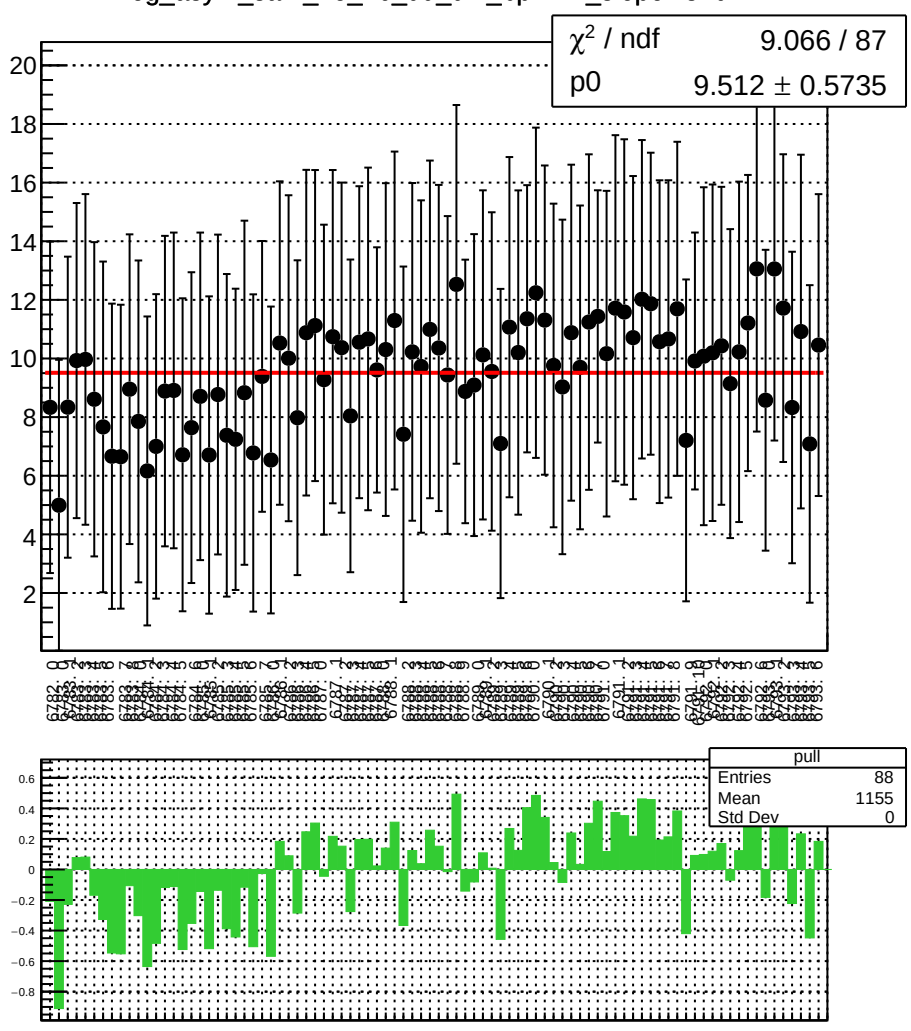

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.96 / 87
p0 8.273 ± 0.2089
pull
Entries 88
Mean 111.8
Std Dev 0

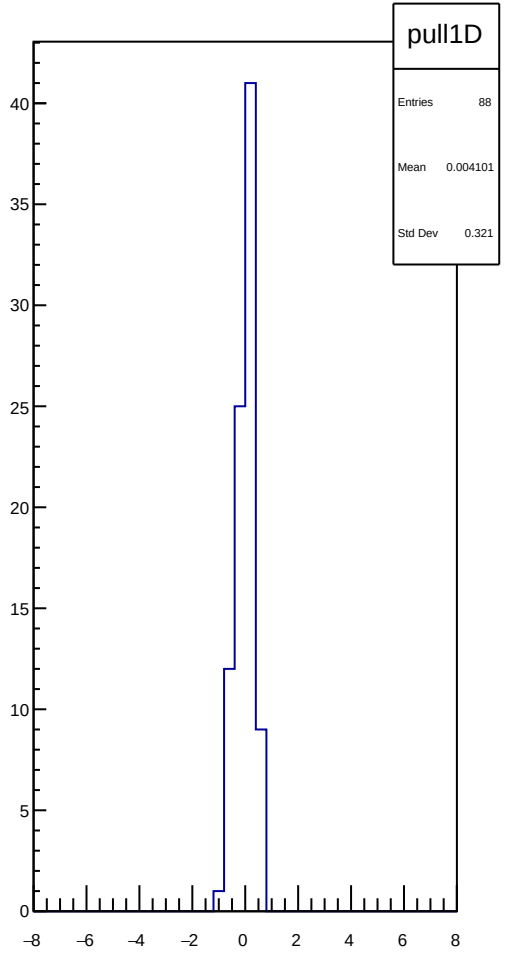

pull1D
Entries 88
Mean −0.01033
Std Dev 0.5635

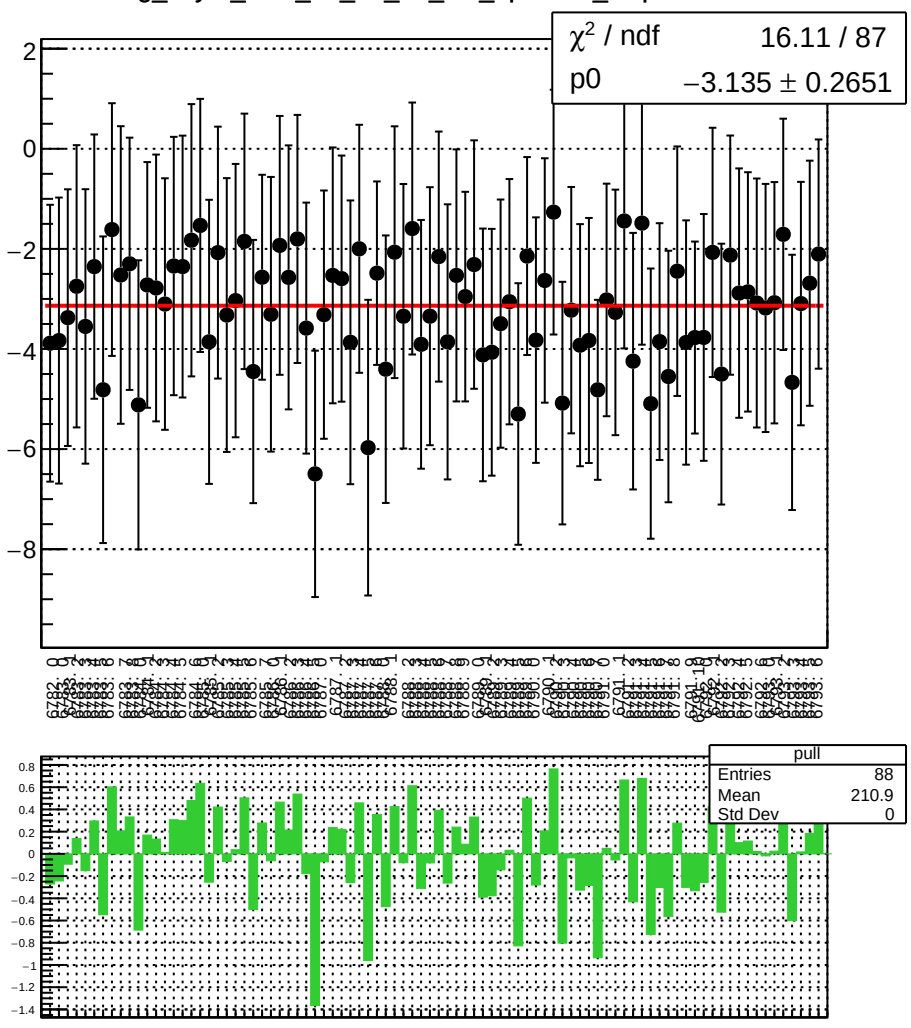

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.84 / 87
p0 14.1 ± 0.4166
pull
Entries 88
Mean 427.8
Std Dev 0
pull1D
Entries 88
Mean 0.02082
Std Dev 0.4238

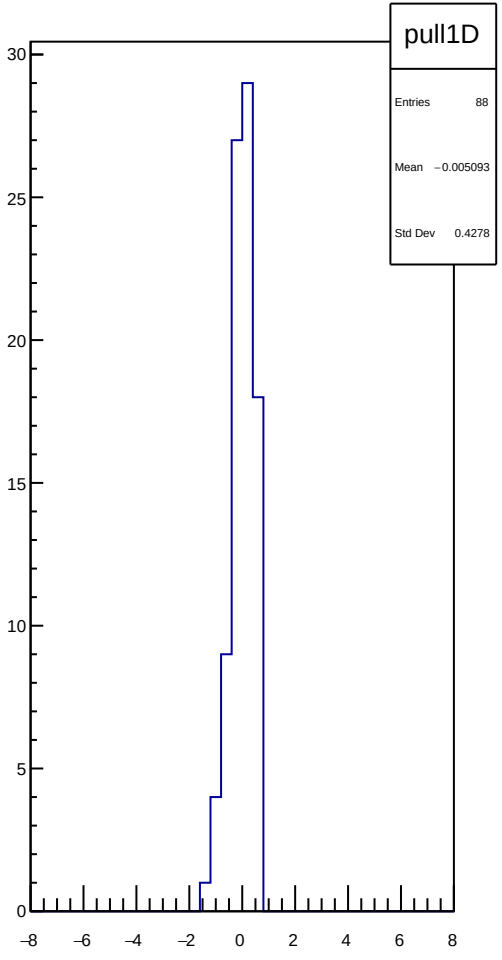

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.46 / 87
p0 −60.6 ± 0.284
pull
Entries 88
Mean −137.9
Std Dev 0
pull1D
Entries 88
Mean 0.01911
Std Dev 0.7025

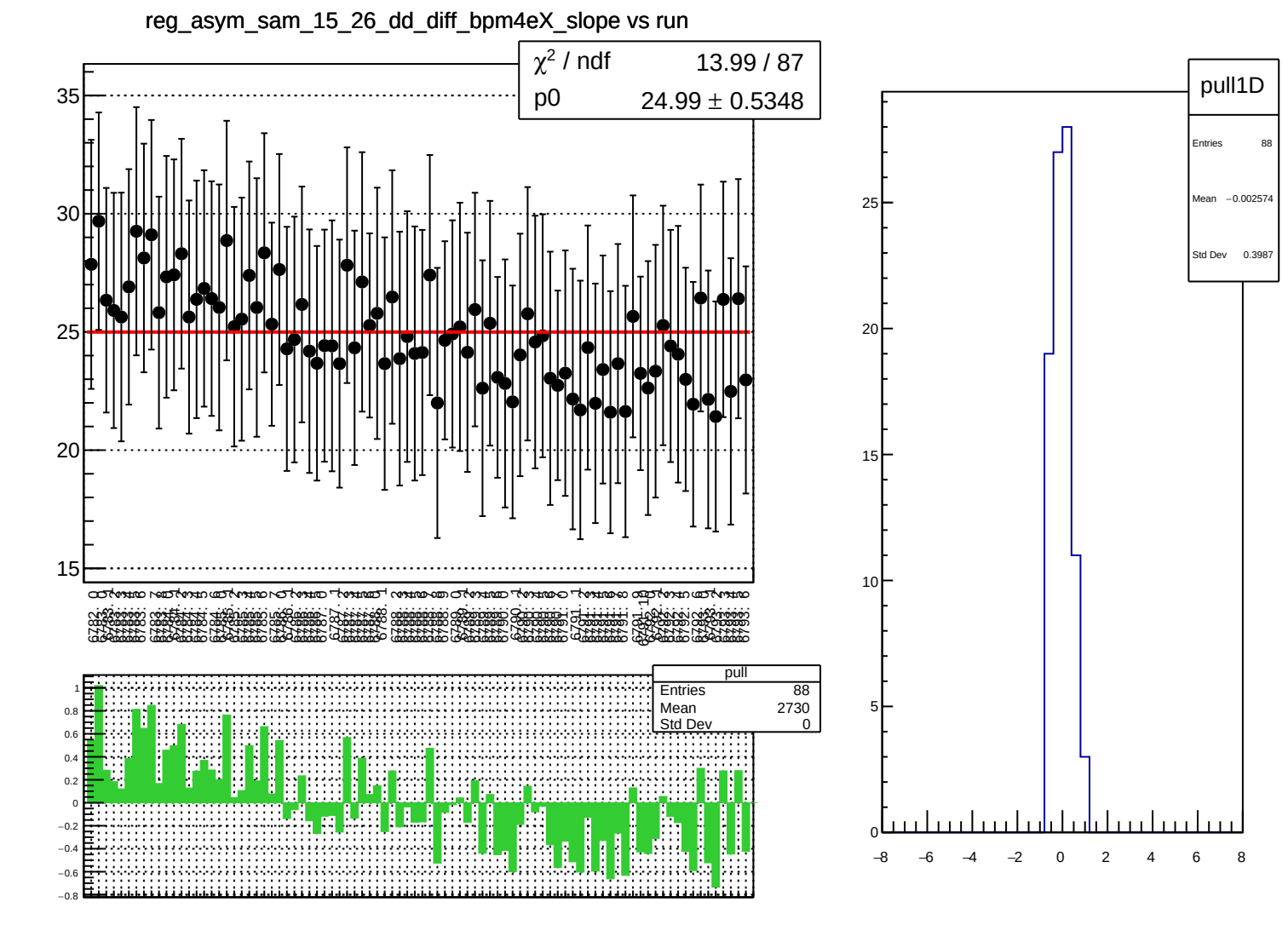

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.83 / 87
p0 0.3155 ± 0.01843
pull
Entries 88
Mean −220.3
Std Dev 0
pull1D
Entries 88
Mean 0.005528
Std Dev 0.3508

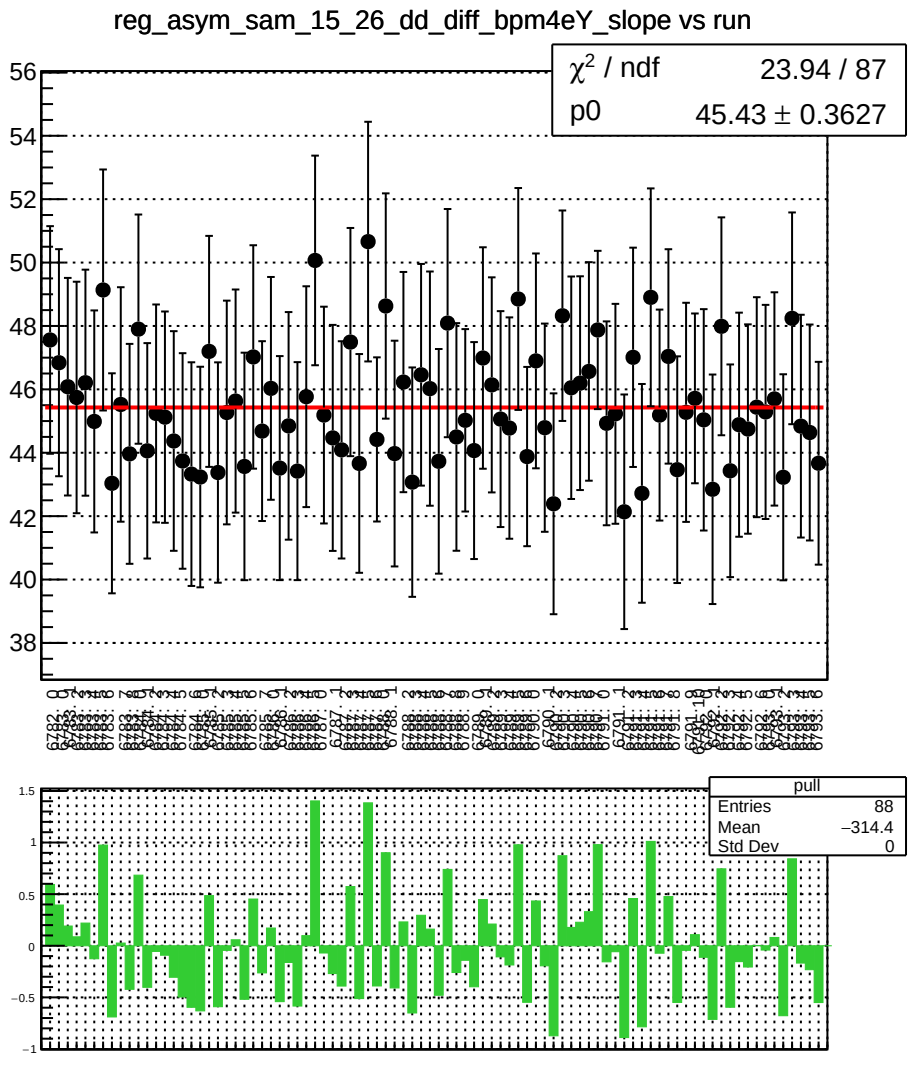

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.066 / 87
p0 9.512 ± 0.5735
pull
Entries 88
Mean 1155
Std Dev 0

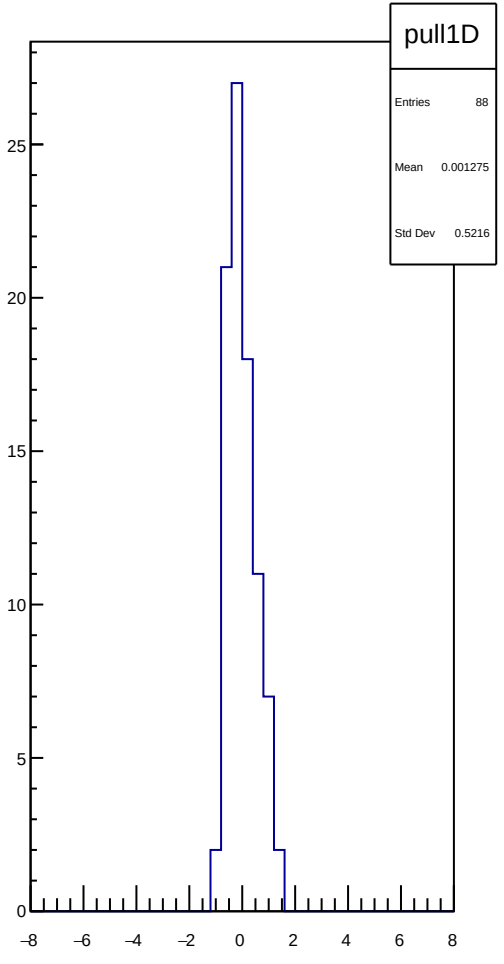

pull1D
Entries 88
Mean 0.004101
Std Dev 0.321

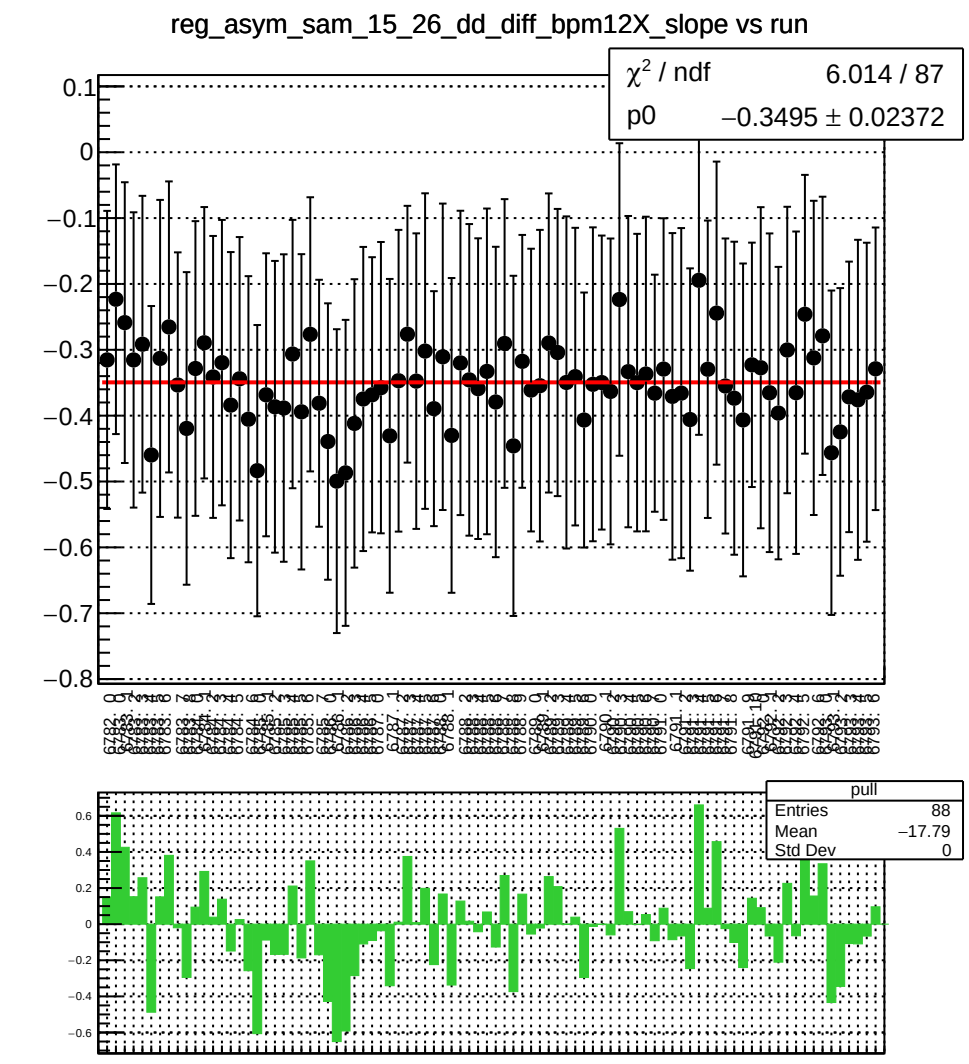

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.11 / 87
p0 −3.135 ± 0.2651
pull
Entries 88
Mean 210.9
Std Dev 0

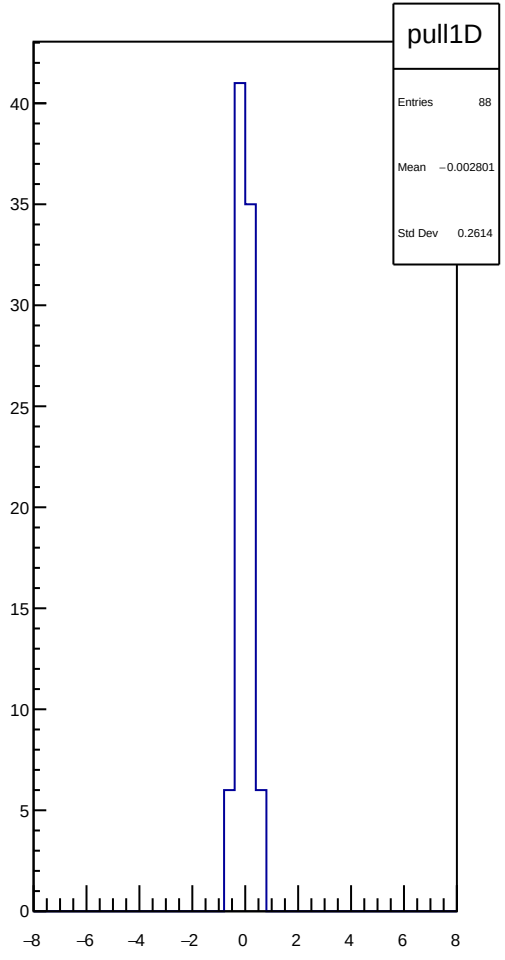

pull1D
Entries 88
Mean −0.005093
Std Dev 0.4278

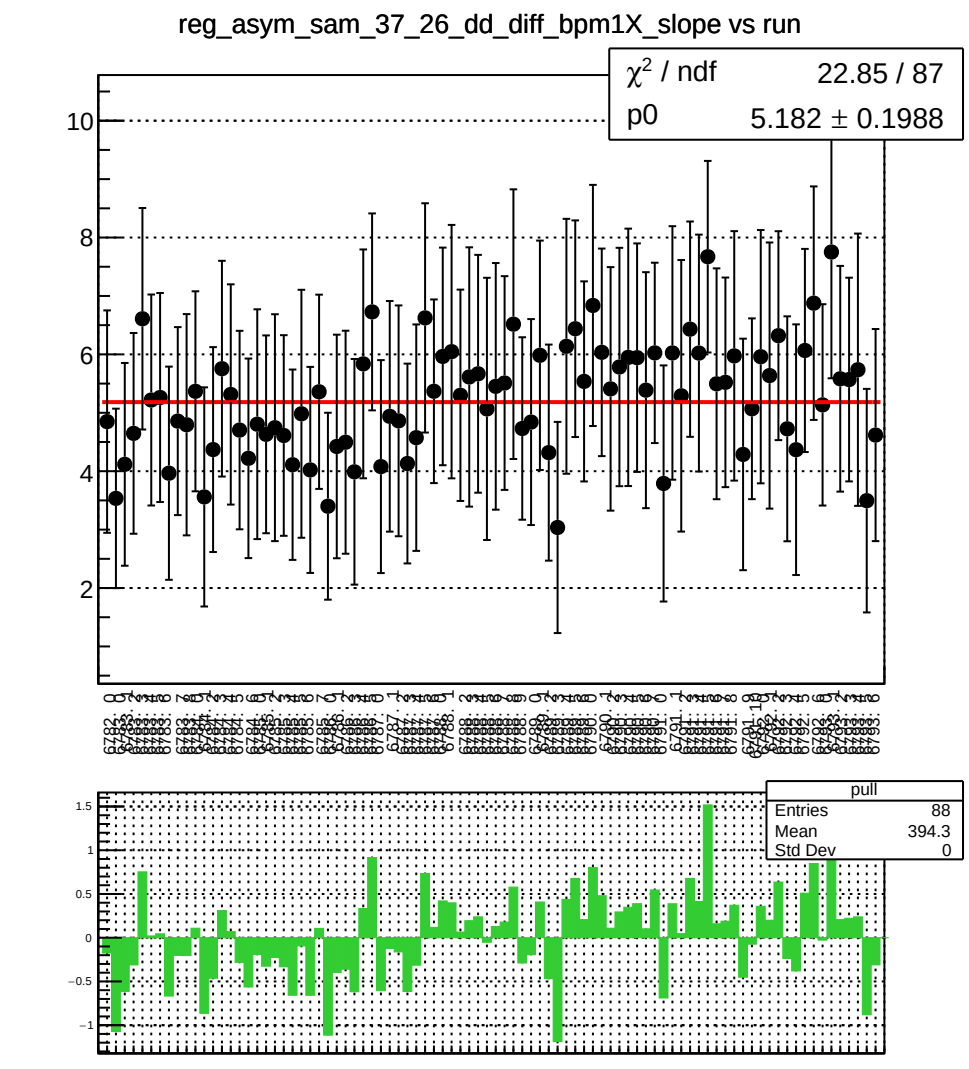

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.99 / 87
p0 24.99 ± 0.5348
pull
Entries 88
Mean 2730
Std Dev 0
pull1D
Entries 88
Mean −0.002574
Std Dev 0.3987

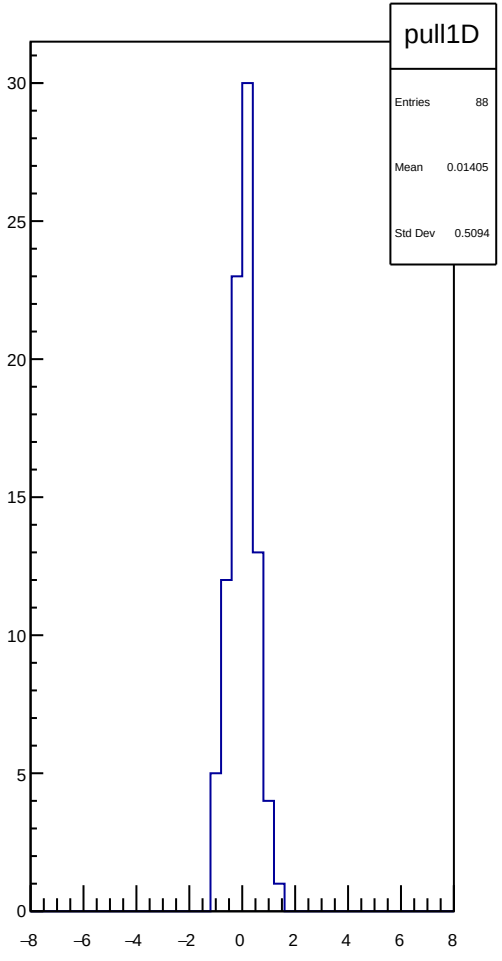

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.94 / 87
p0 45.43 ± 0.3627
pull
Entries 88
Mean −314.4
Std Dev 0

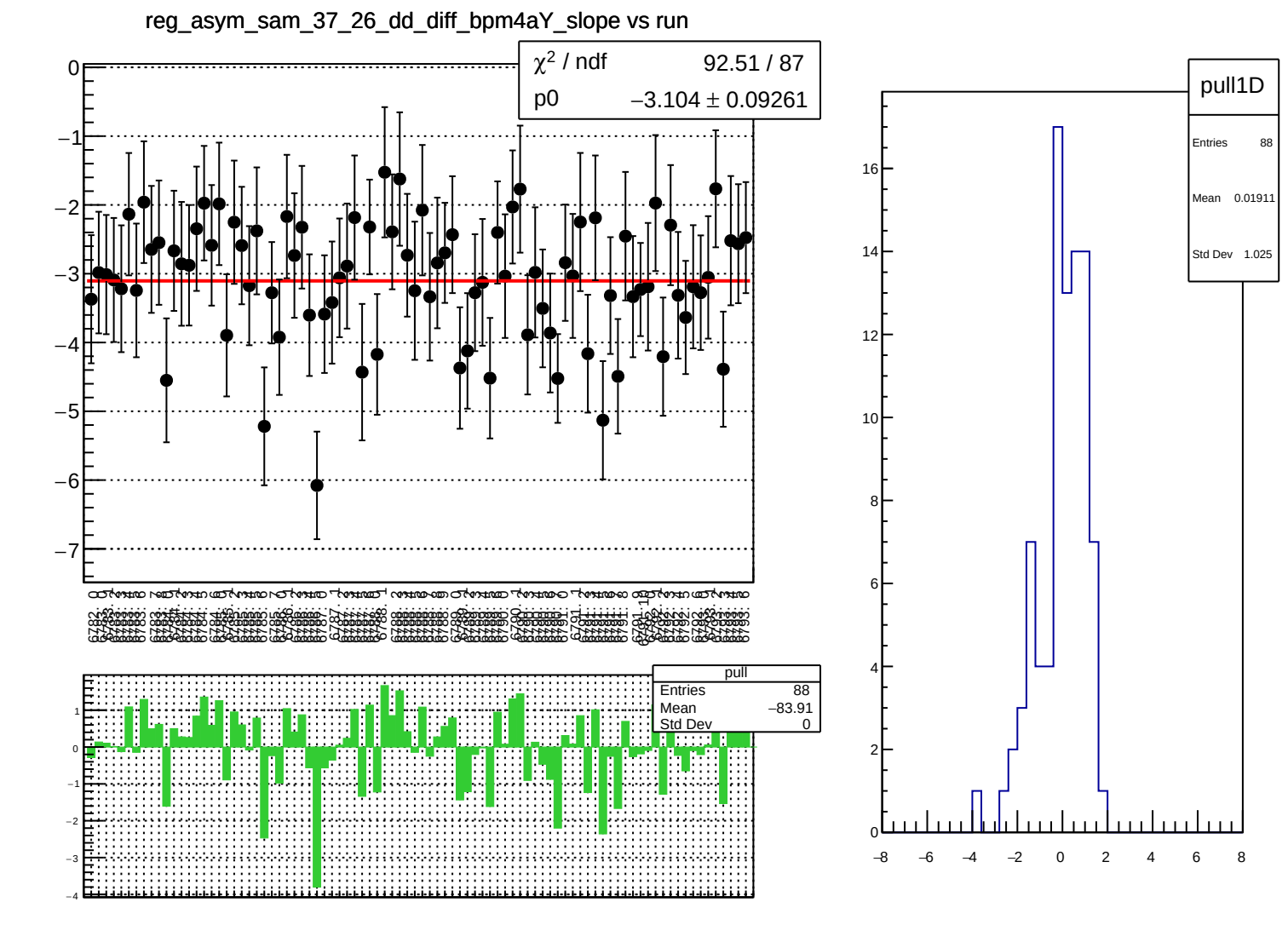

pull1D
Entries 88
Mean 0.001275
Std Dev 0.5216

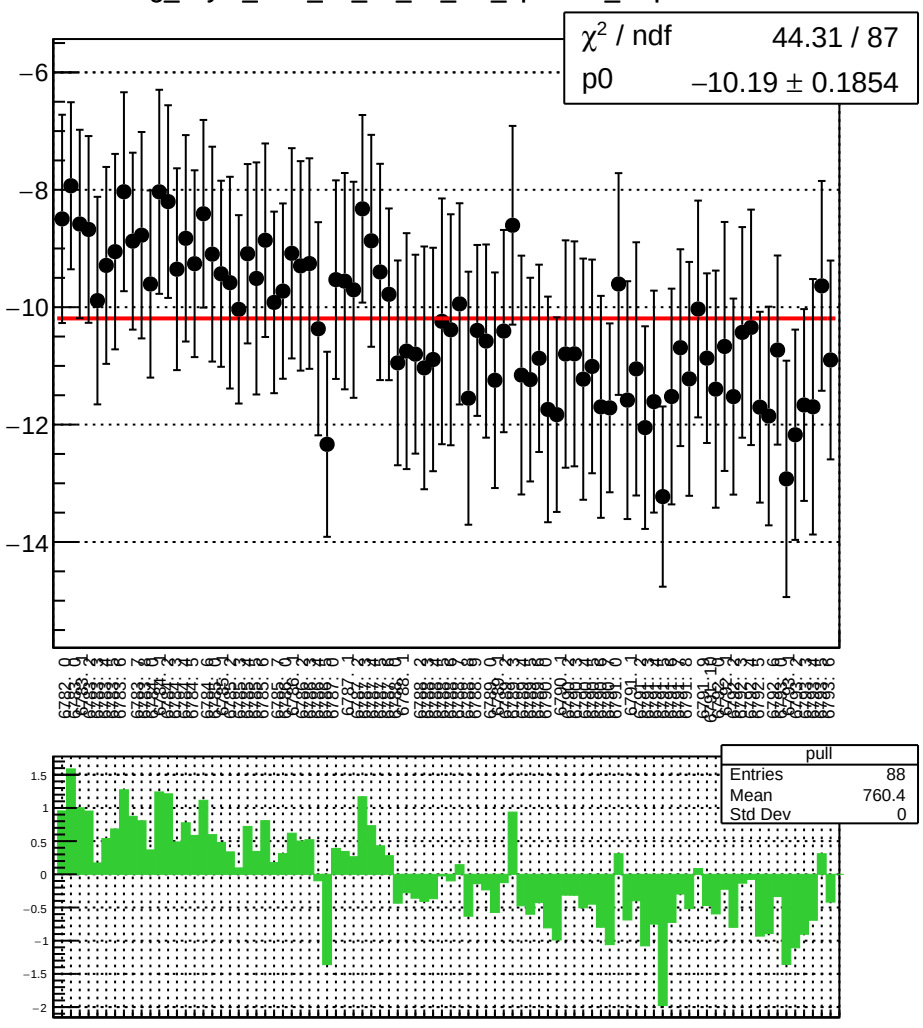

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 6.014 / 87
p0 −0.3495 ± 0.02372
pull
Entries 88
Mean −17.79
Std Dev 0

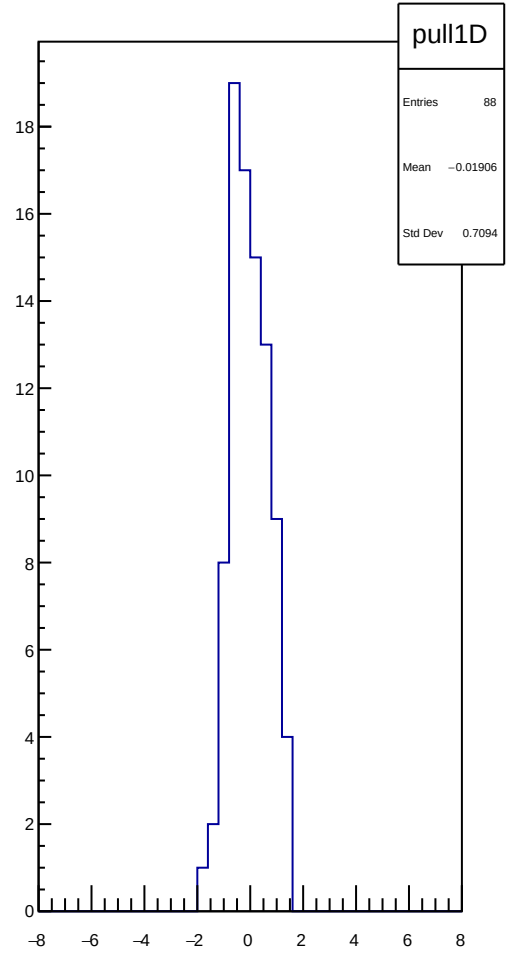

pull1D
Entries 88
Mean −0.002801
Std Dev 0.2614

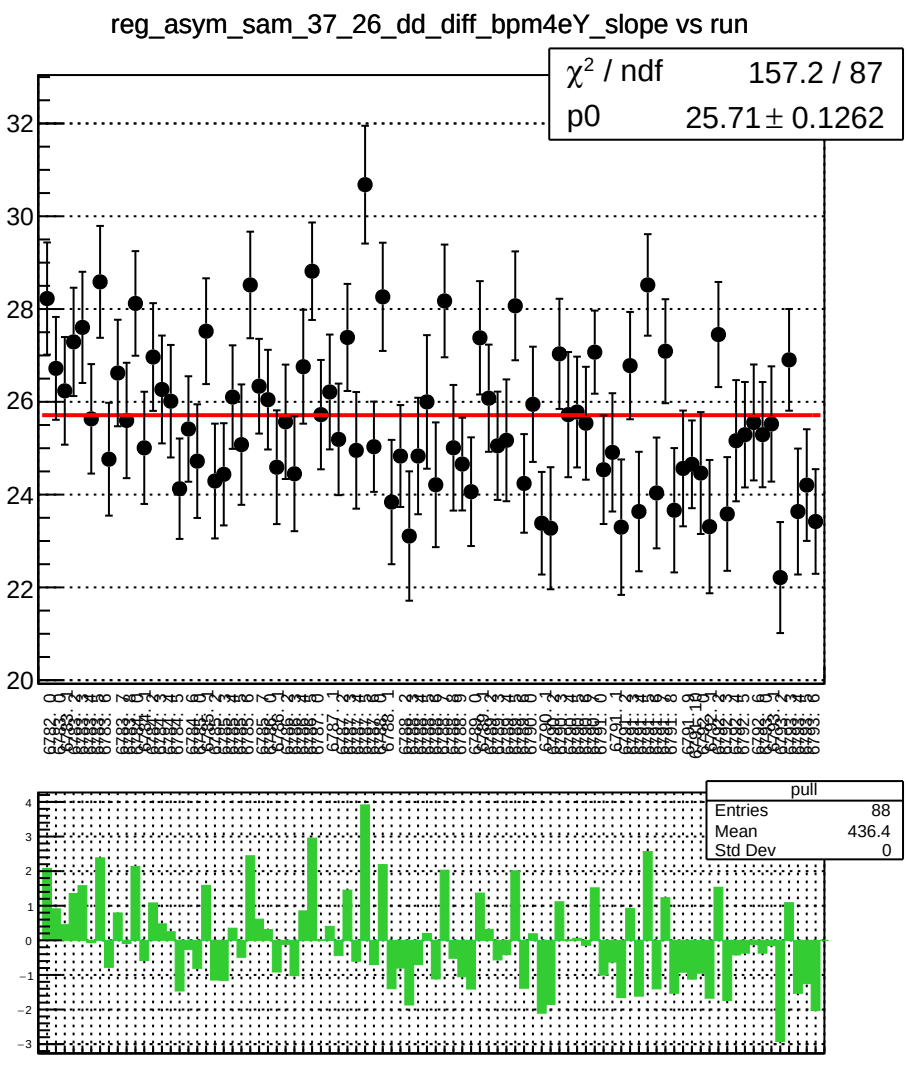

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 22.85 / 87
p0 5.182 ± 0.1988
pull
Entries 88
Mean 394.3
Std Dev 0

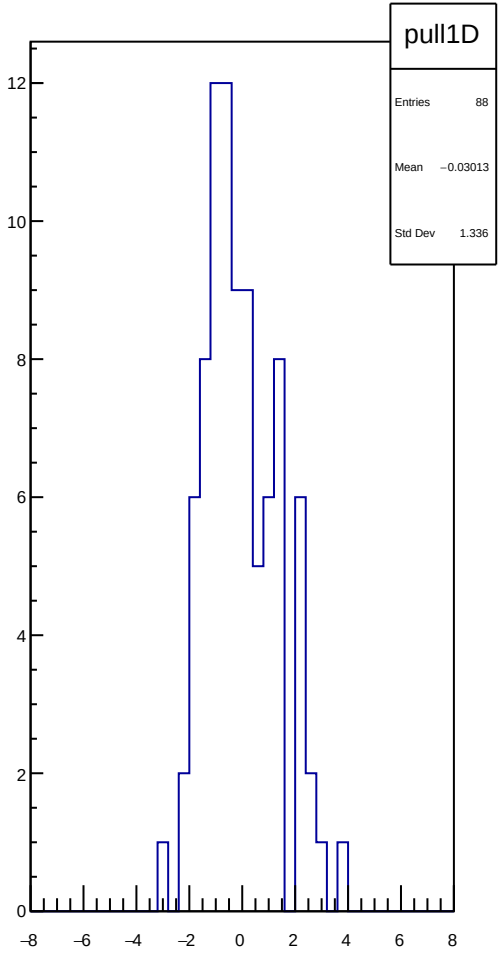

pull1D
Entries 88
Mean 0.01405
Std Dev 0.5094

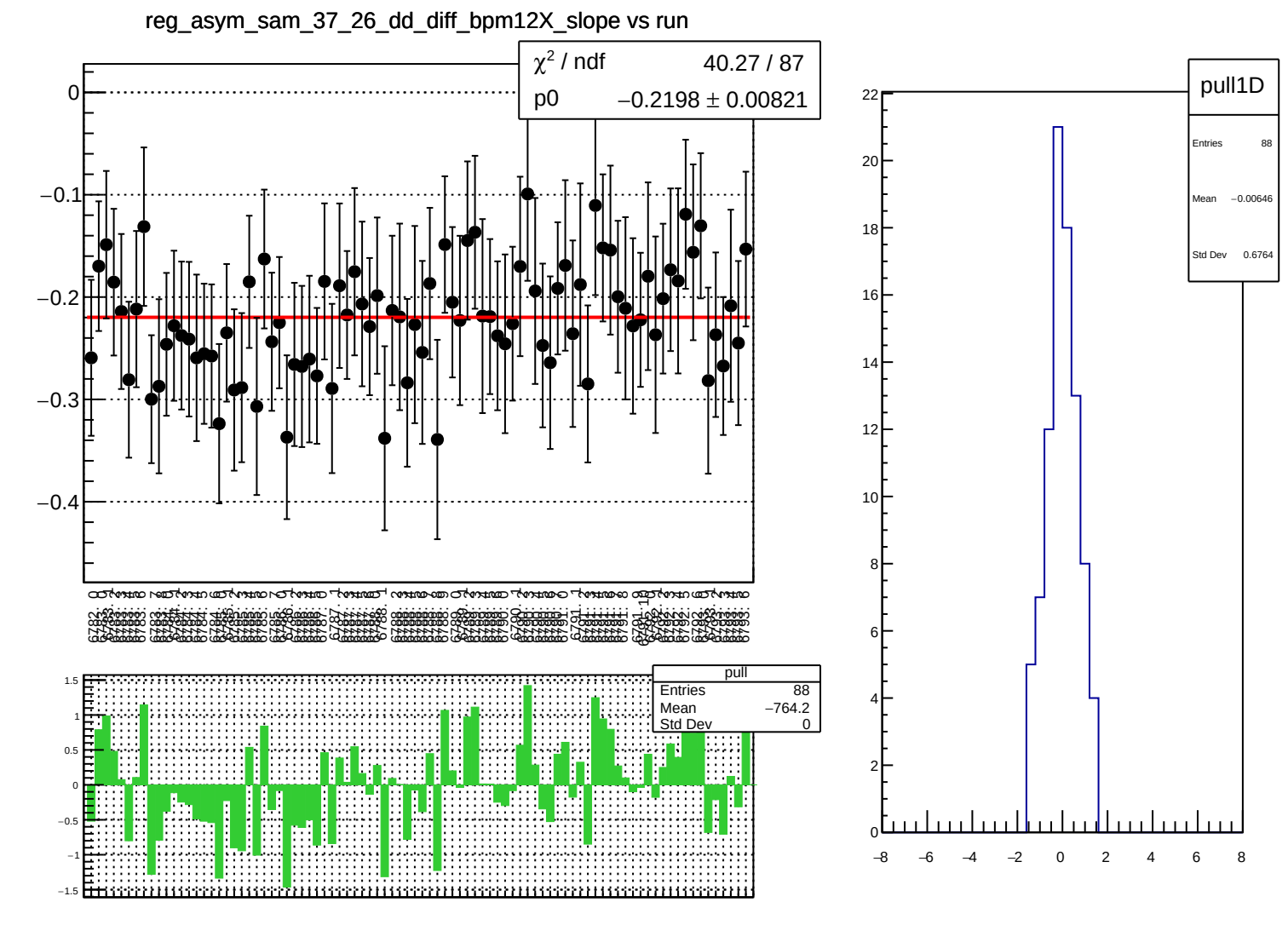

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.51 / 87
p0 −3.104 ± 0.09261
pull
Entries 88
Mean −83.91
Std Dev 0
pull1D
Entries 88
Mean 0.01911
Std Dev 1.025

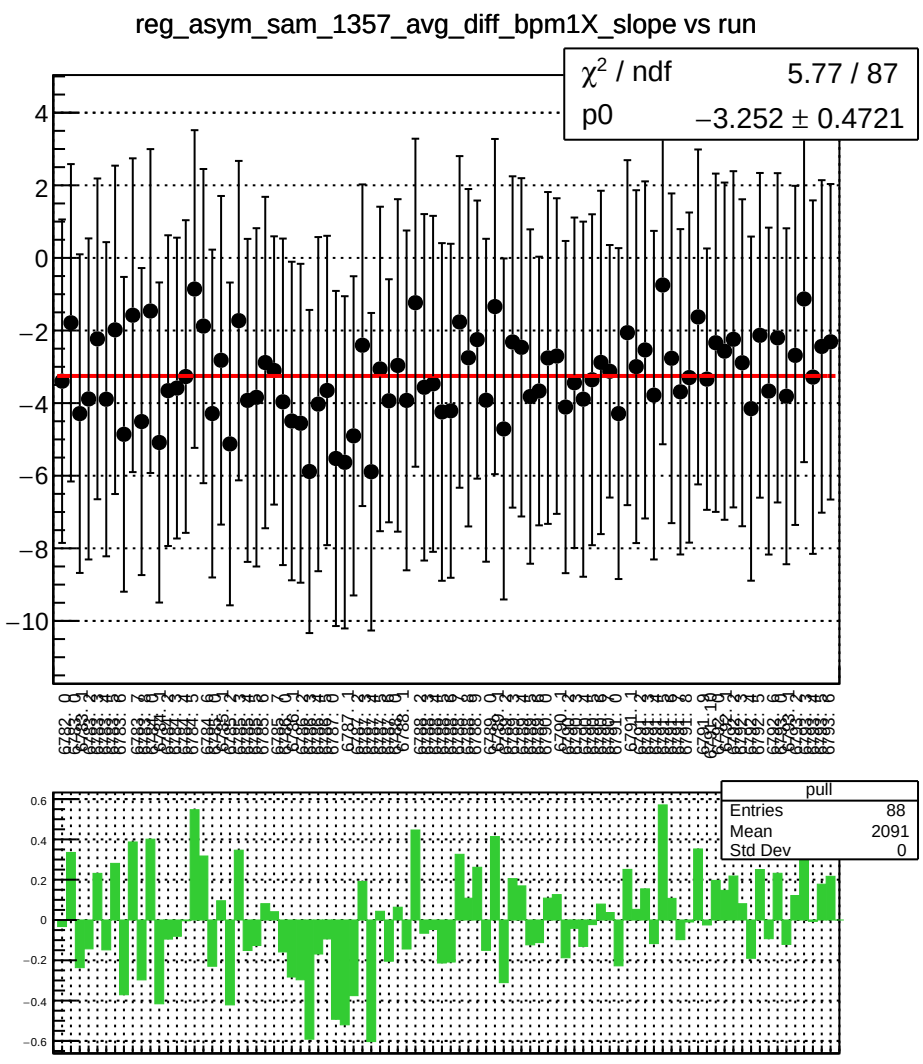

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.31 / 87
p0 −10.19 ± 0.1854
pull
Entries 88
Mean 760.4
Std Dev 0

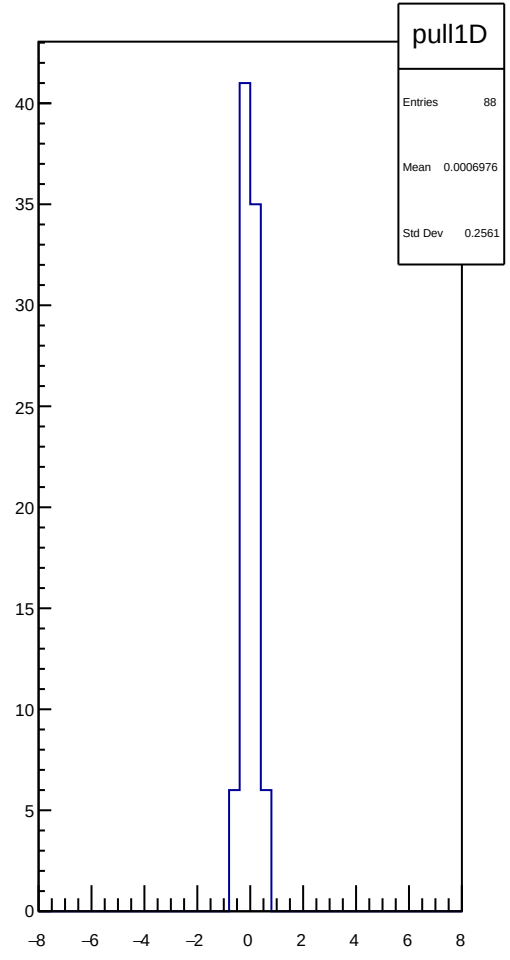

pull1D
Entries 88
Mean −0.01906
Std Dev 0.7094

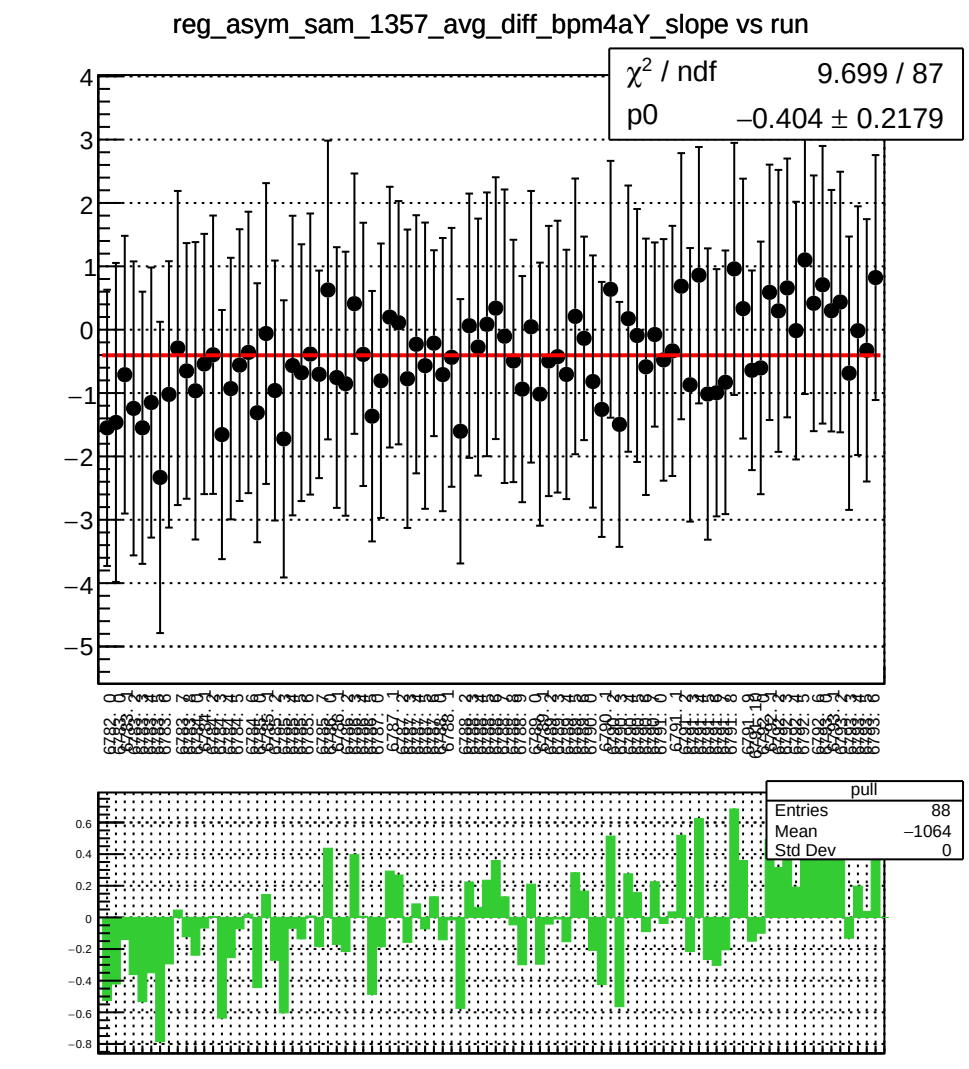

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 157.2 / 87
p0 25.71 ± 0.1262
pull
Entries 88
Mean 436.4
Std Dev 0

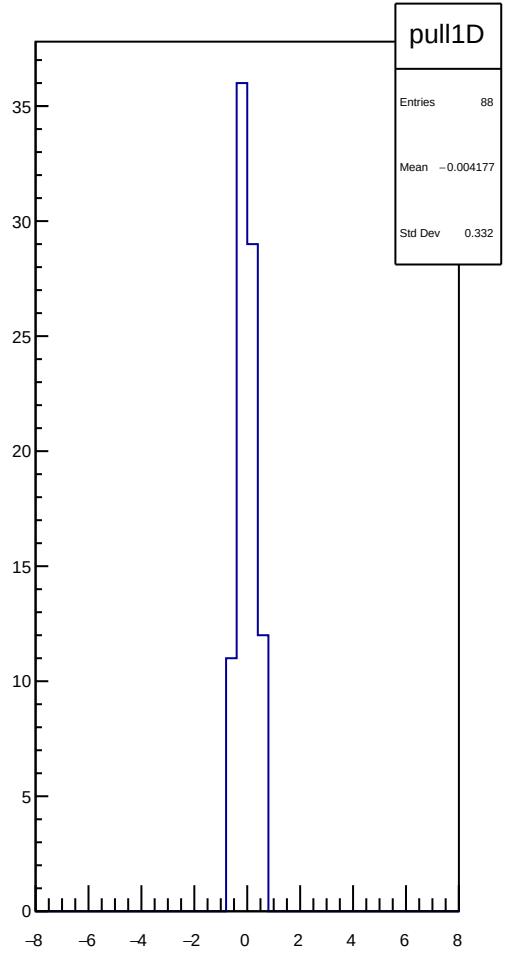

pull1D
Entries 88
Mean −0.03013
Std Dev 1.336

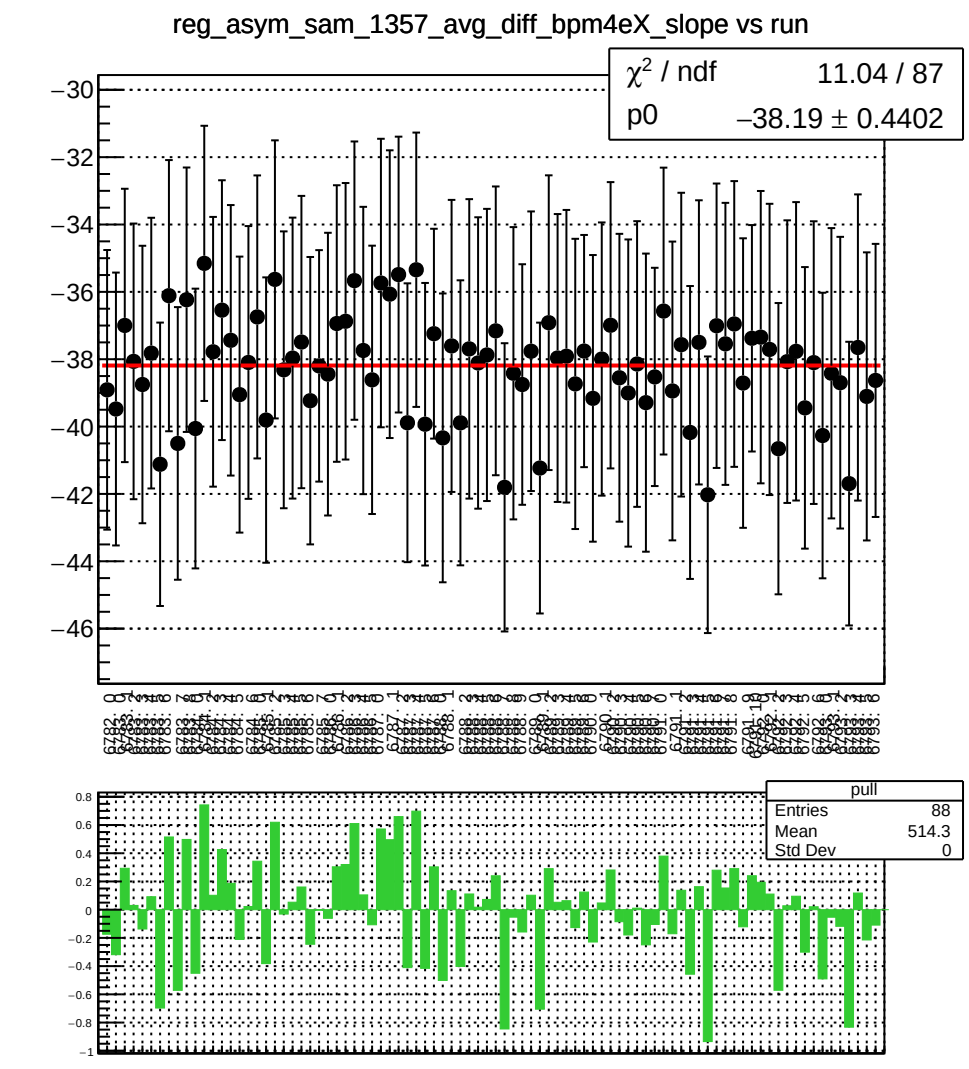

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 40.27 / 87
p0 −0.2198 ± 0.00821
pull
Entries 88
Mean −764.2
Std Dev 0
pull1D
Entries 88
Mean −0.00646
Std Dev 0.6764

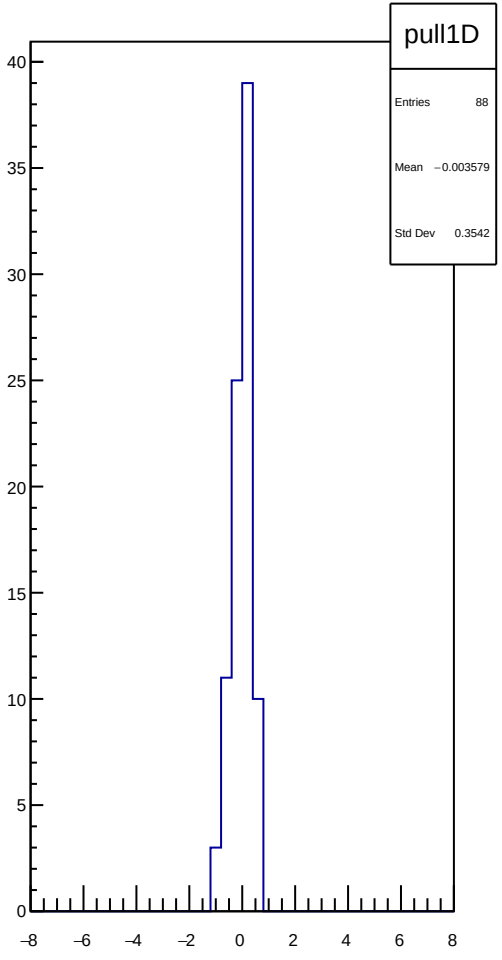

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 5.77 / 87
p0 −3.252 ± 0.4721
pull
Entries 88
Mean 2091
Std Dev 0

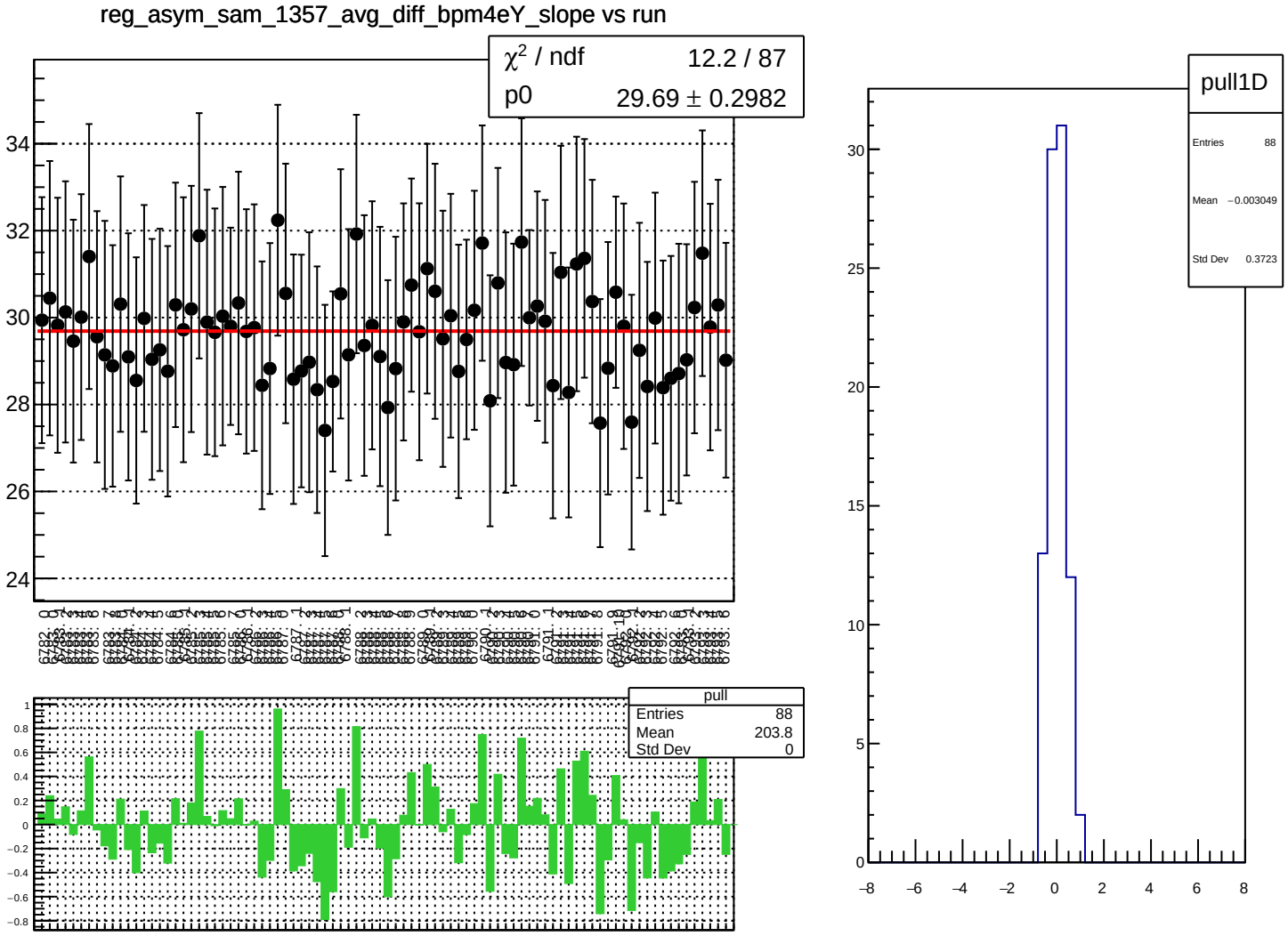

pull1D
Entries 88
Mean 0.0006976
Std Dev 0.2561

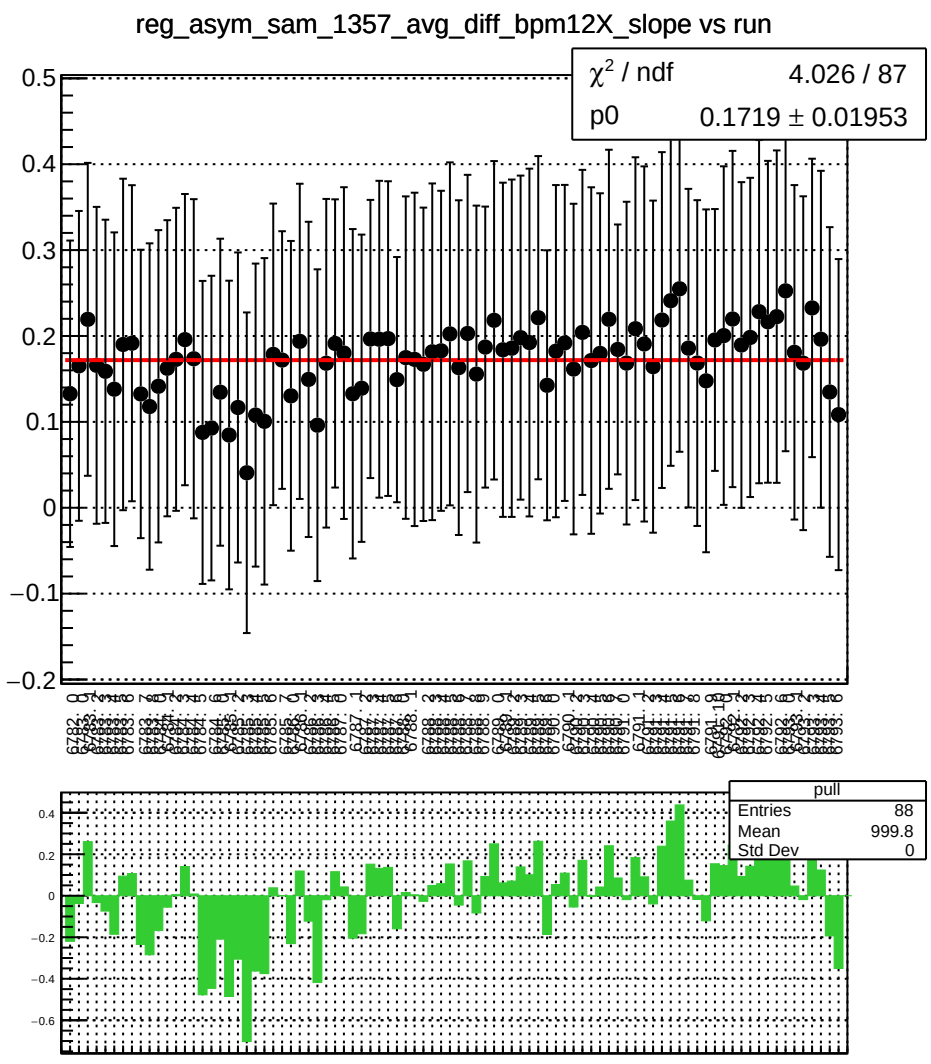

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.699 / 87
p0 −0.404 ± 0.2179
pull
Entries 88
Mean −1064
Std Dev 0

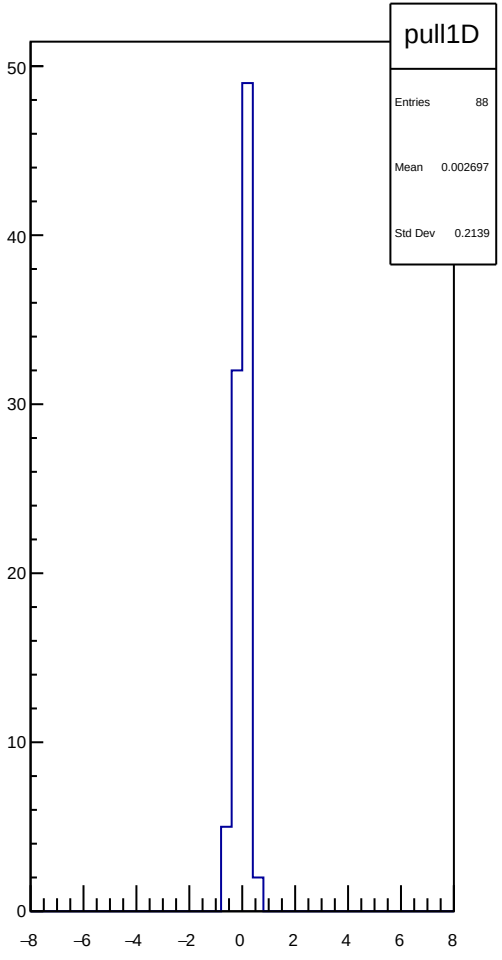

pull1D
Entries 88
Mean −0.004177
Std Dev 0.332

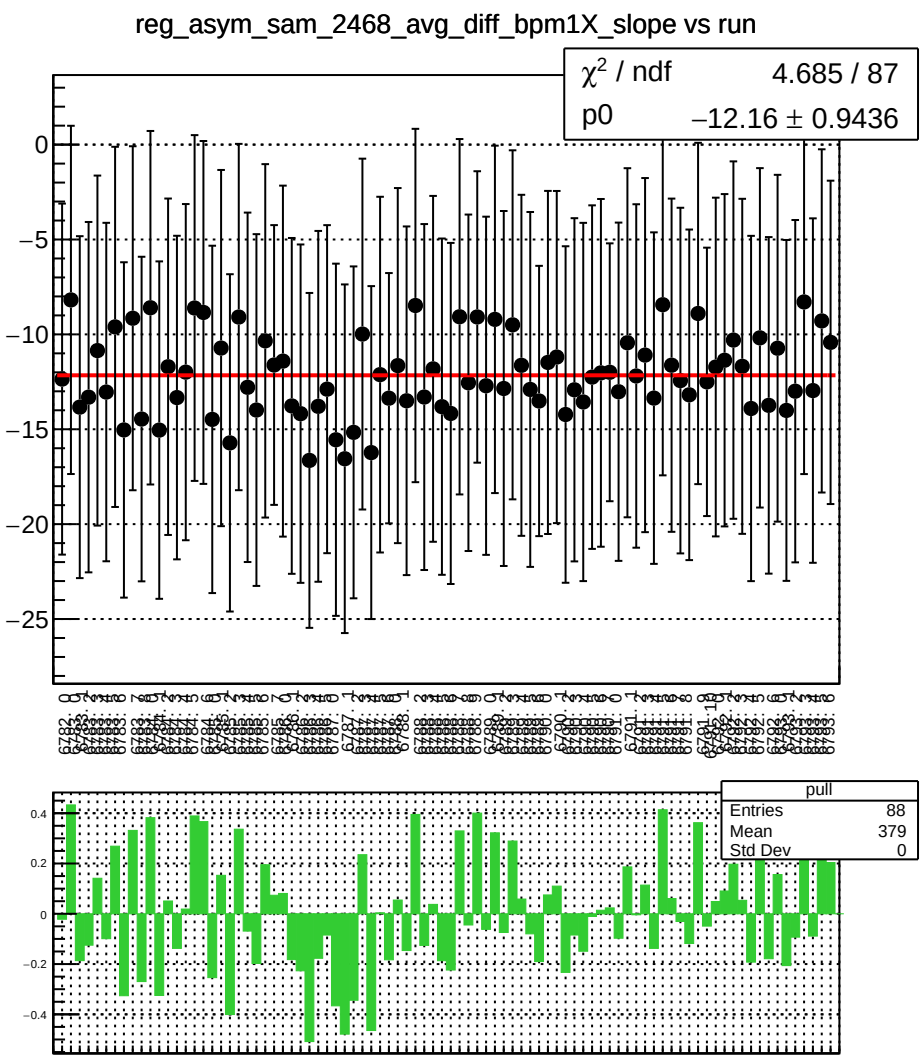

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.04 / 87
p0 −38.19 ± 0.4402
pull
Entries 88
Mean 514.3
Std Dev 0

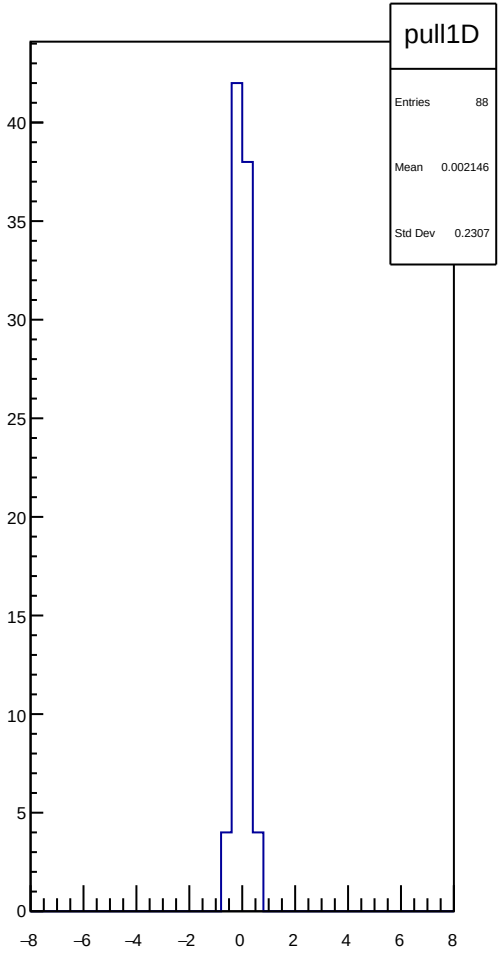

pull1D
Entries 88
Mean −0.003579
Std Dev 0.3542

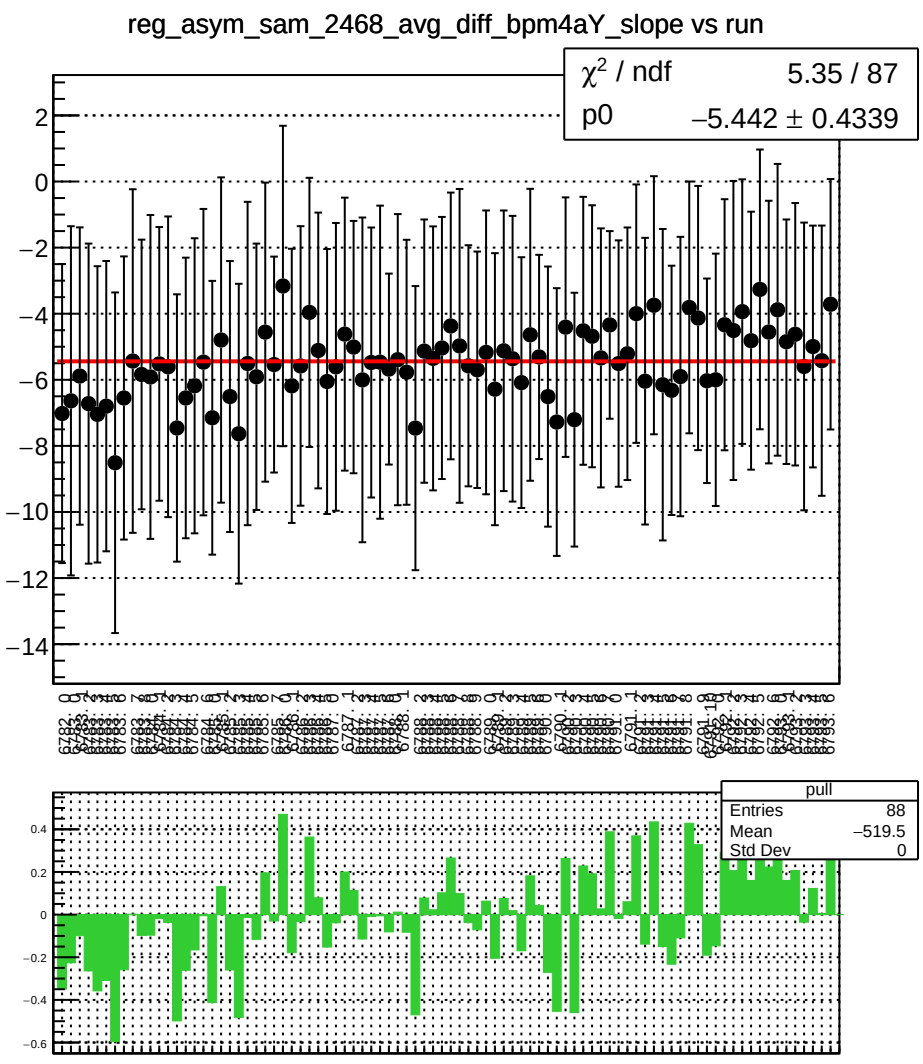

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.2 / 87
p0 29.69 ± 0.2982
pull
Entries 88
Mean 203.8
Std Dev 0
pull1D
Entries 88
Mean −0.003049
Std Dev 0.3723

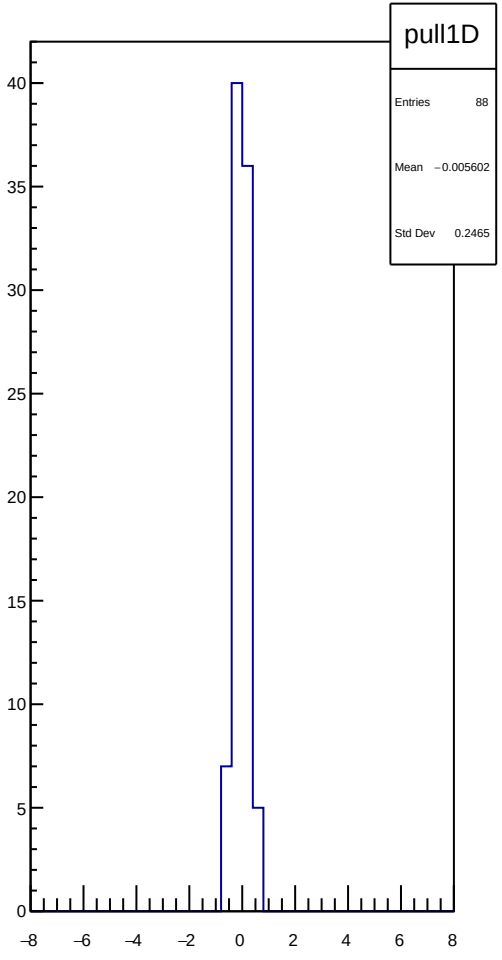

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 4.026 / 87
p0 0.1719 ± 0.01953
pull
Entries 88
Mean 999.8
Std Dev 0

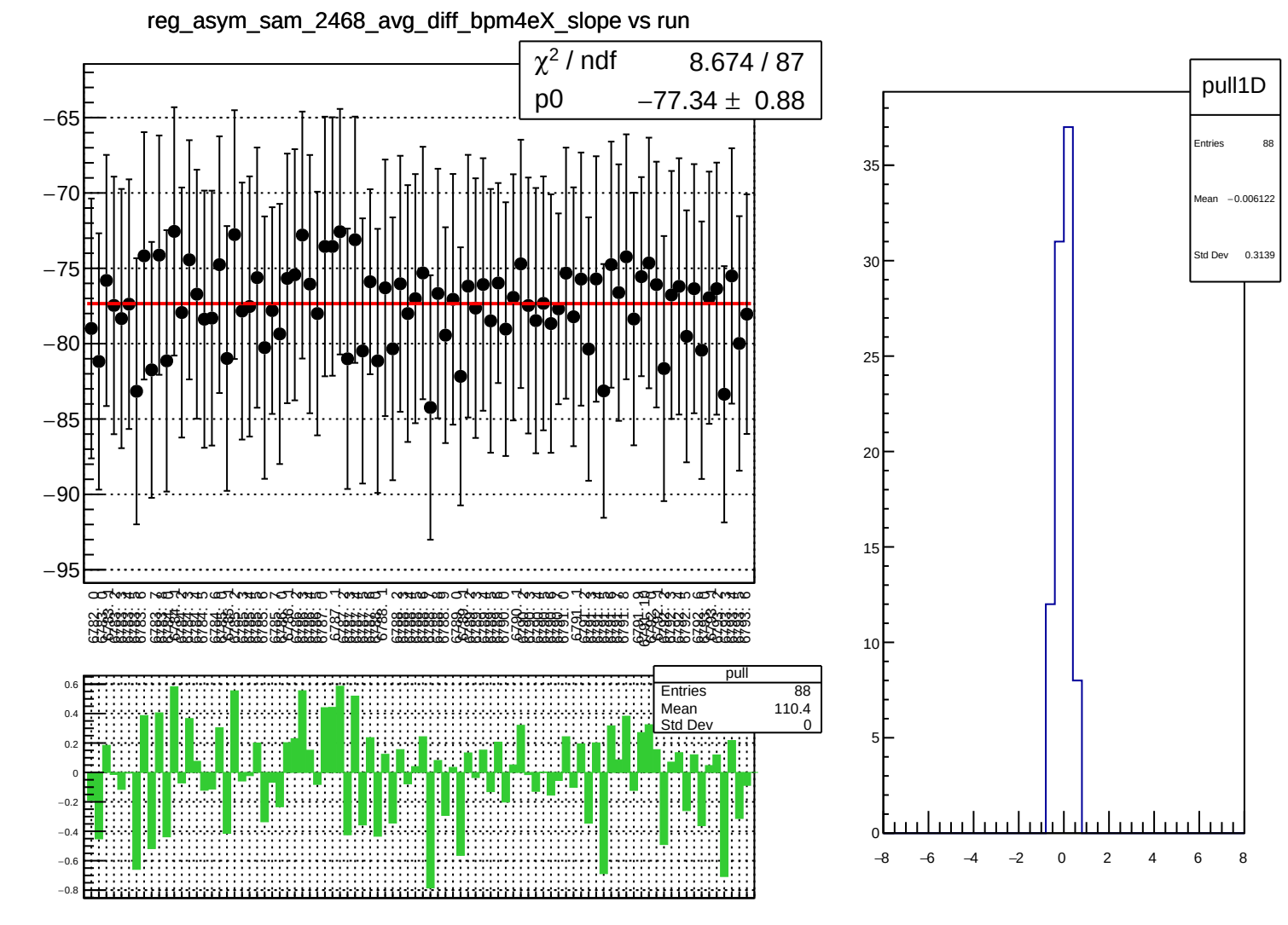

pull1D
Entries 88
Mean 0.002697
Std Dev 0.2139

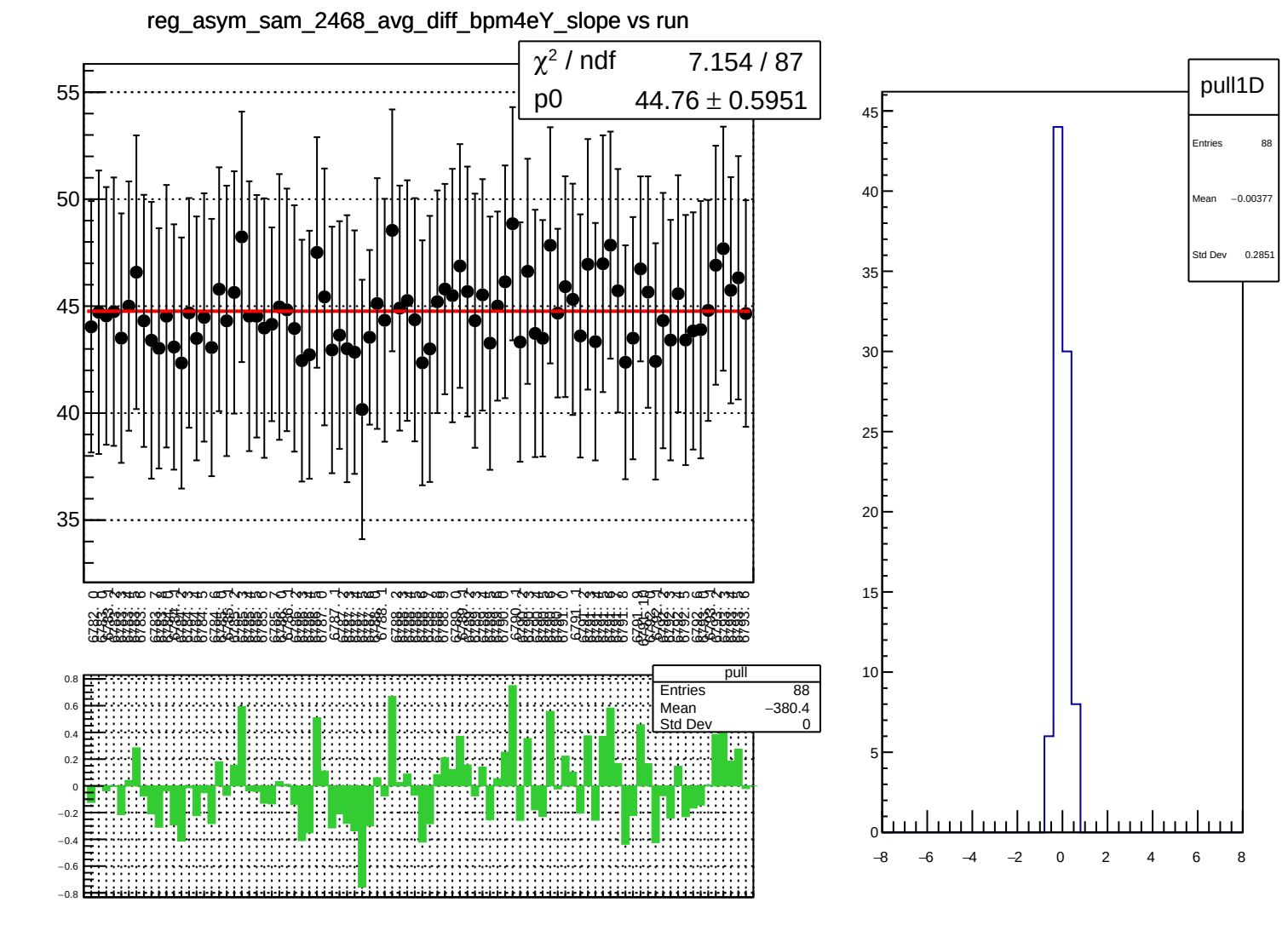

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 4.685 / 87
p0 −12.16 ± 0.9436
pull
Entries 88
Mean 379
Std Dev 0

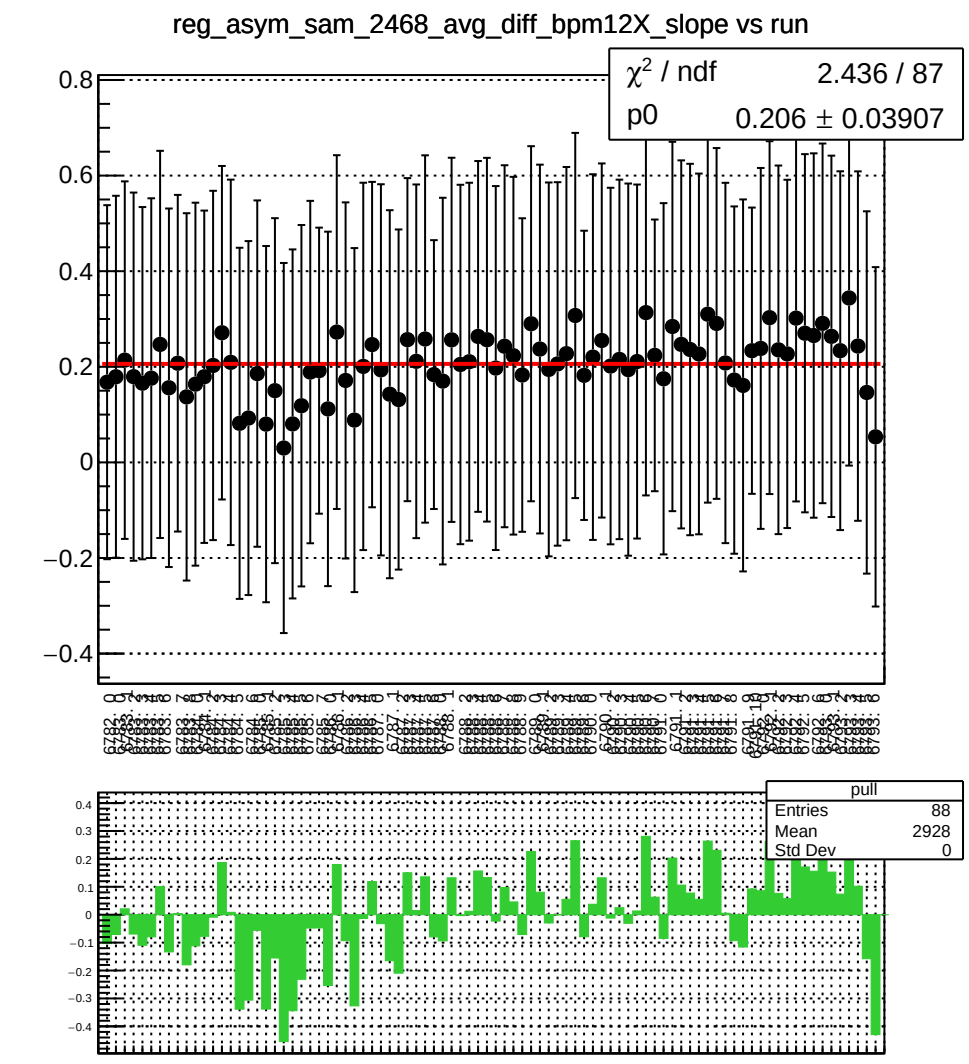

pull1D
Entries 88
Mean 0.002146
Std Dev 0.2307

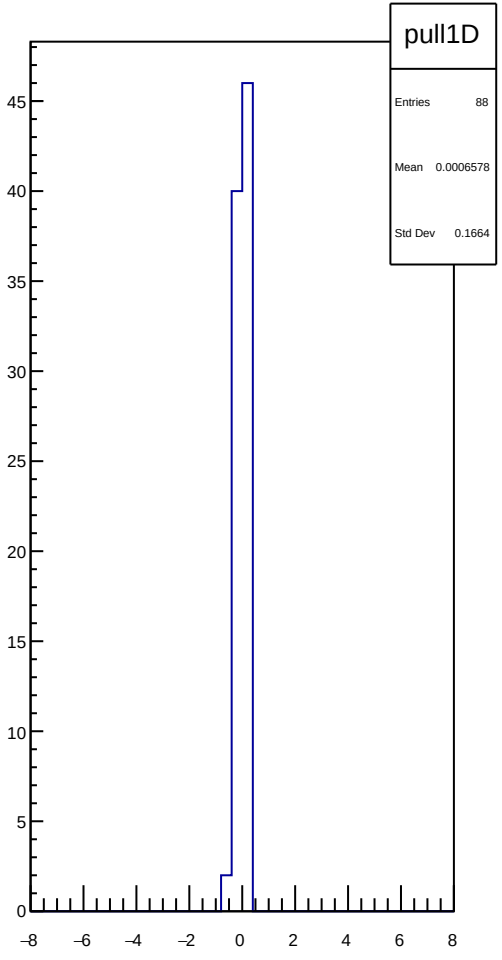

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.35 / 87
p0 −5.442 ± 0.4339
pull
Entries 88
Mean −519.5
Std Dev 0

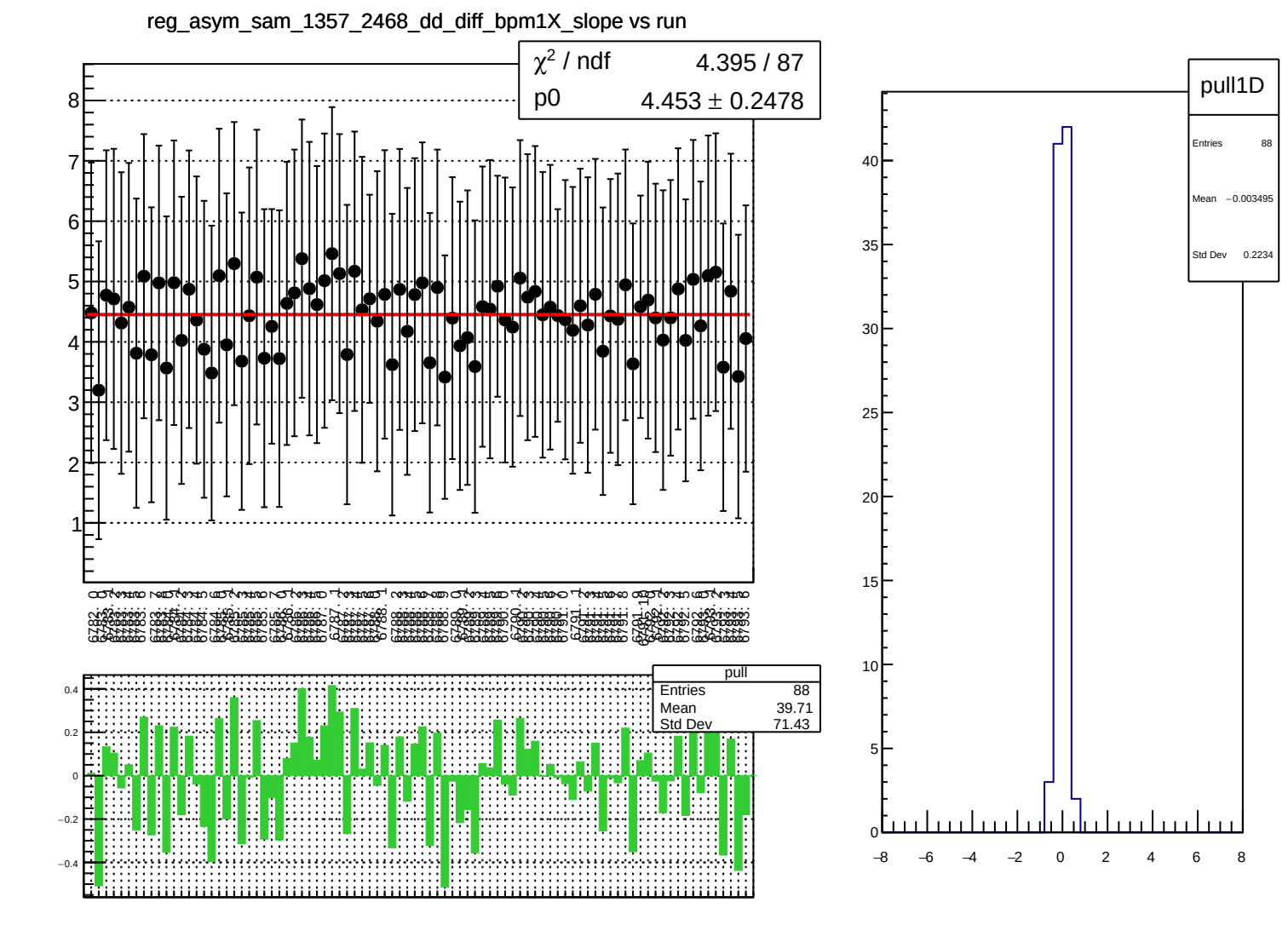

pull1D
Entries 88
Mean −0.005602
Std Dev 0.2465

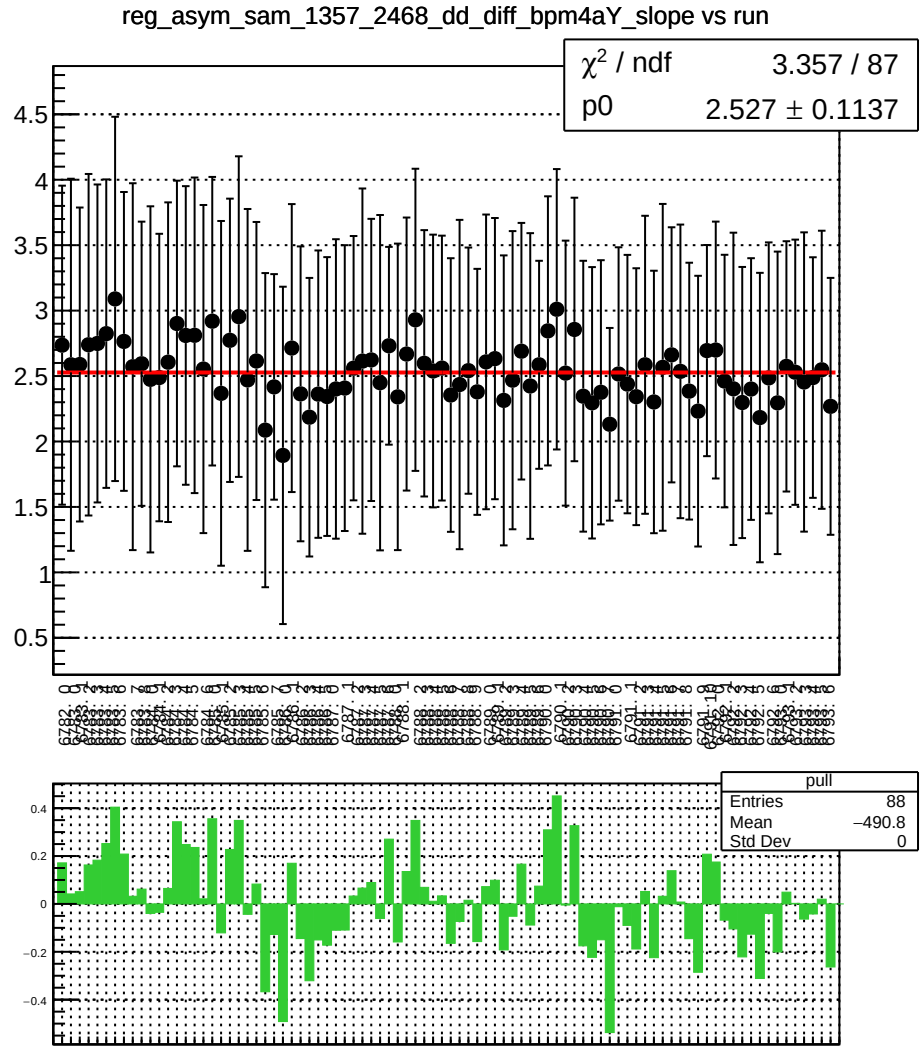

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.674 / 87
p0 −77.34 ± 0.88
pull
Entries 88
Mean 110.4
Std Dev 0
pull1D
Entries 88
Mean −0.006122
Std Dev 0.3139

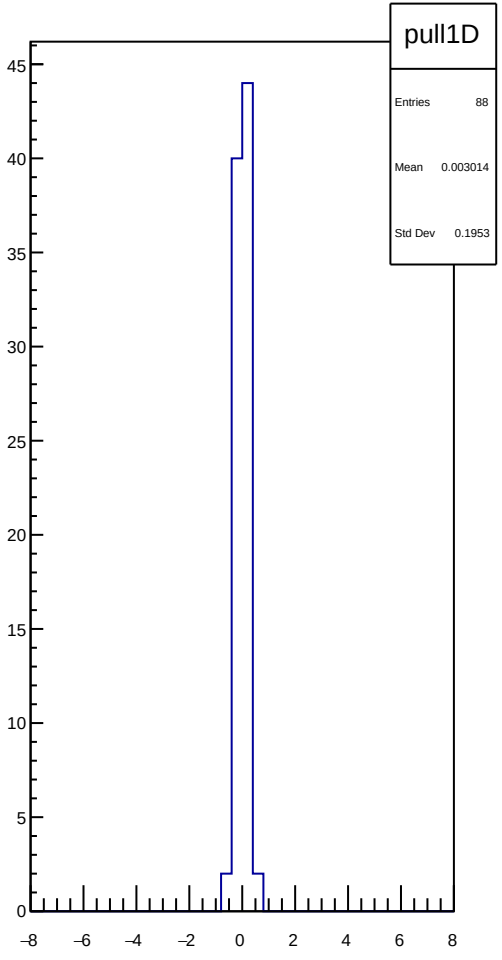

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.154 / 87
p0 44.76 ± 0.5951
pull
Entries 88
Mean −380.4
Std Dev 0
pull1D
Entries 88
Mean −0.00377
Std Dev 0.2851

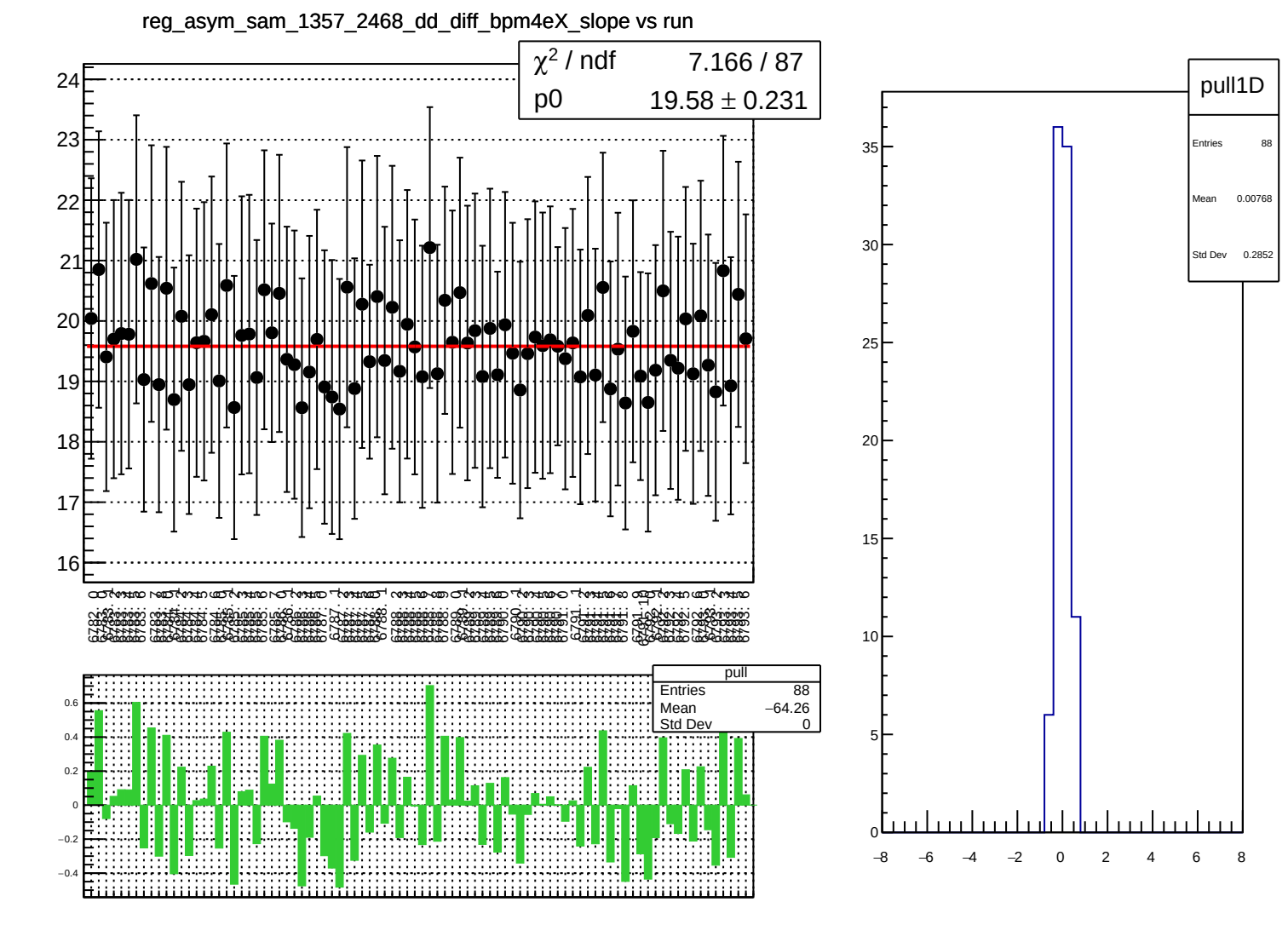

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.436 / 87
p0 0.206 ± 0.03907
pull
Entries 88
Mean 2928
Std Dev 0

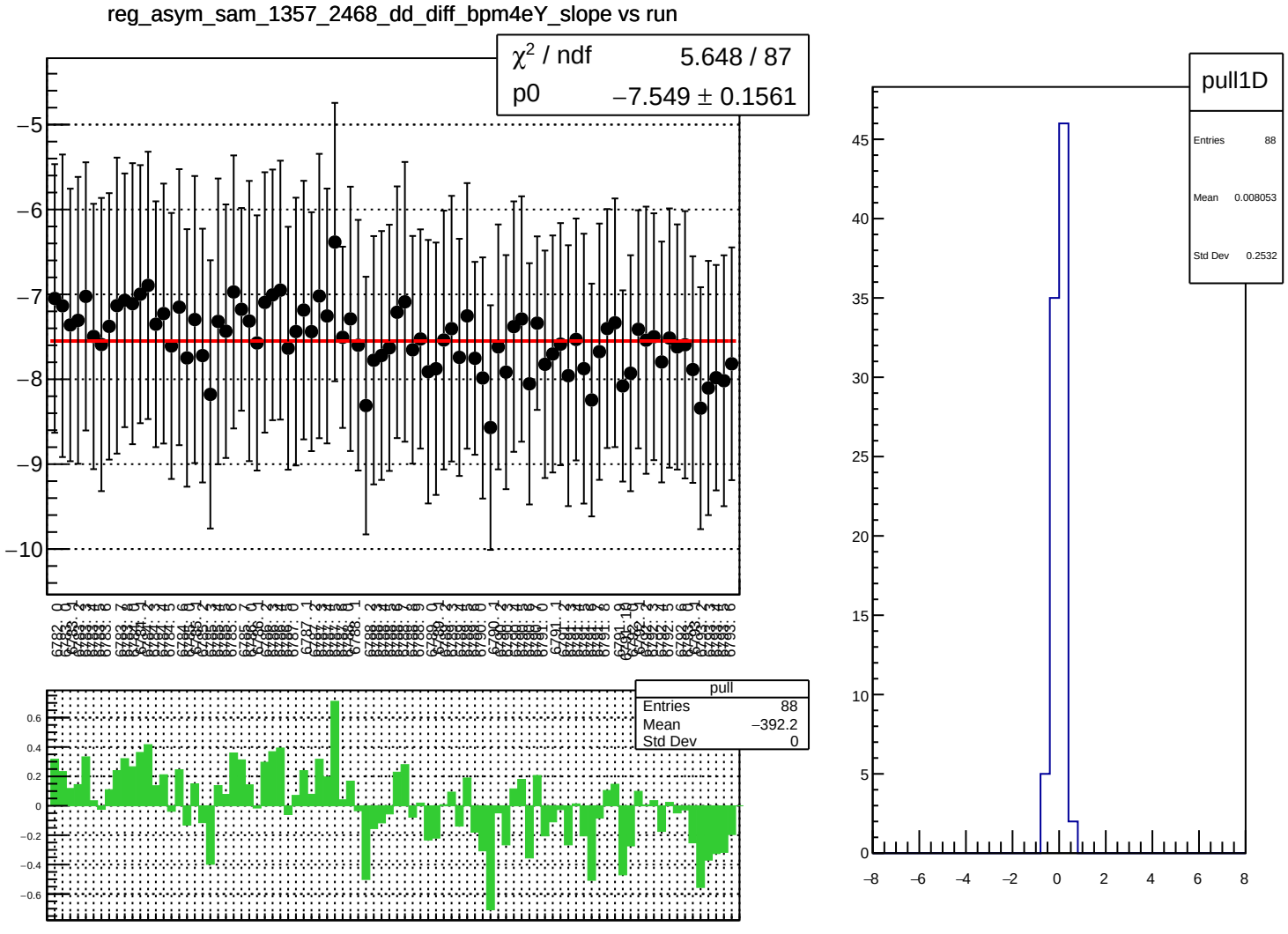

pull1D
Entries 88
Mean 0.0006578
Std Dev 0.1664

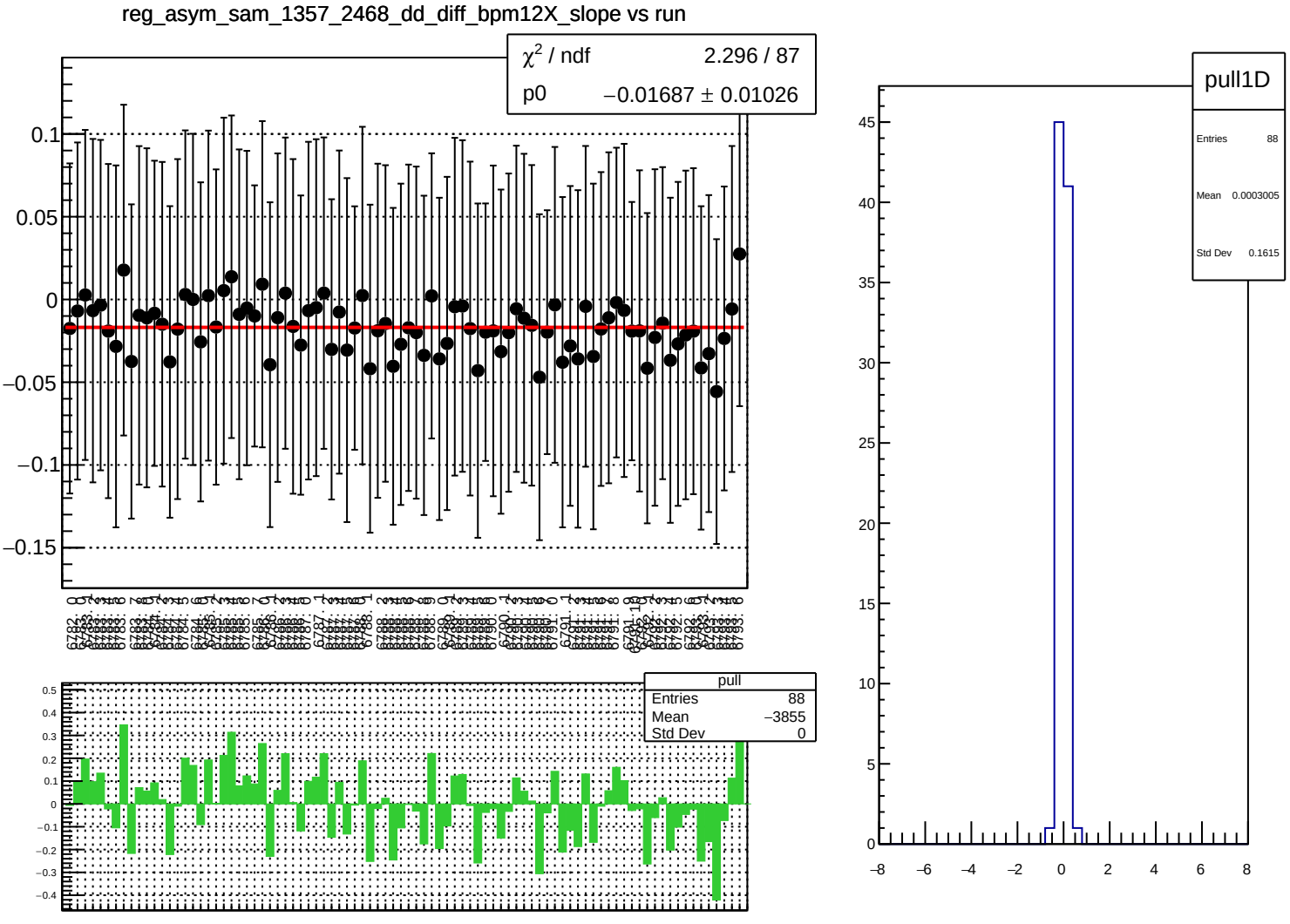

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 4.395 / 87
p0 4.453 ± 0.2478
pull
Entries 88
Mean 39.71
Std Dev 71.43
pull1D
Entries 88
Mean −0.003495
Std Dev 0.2234

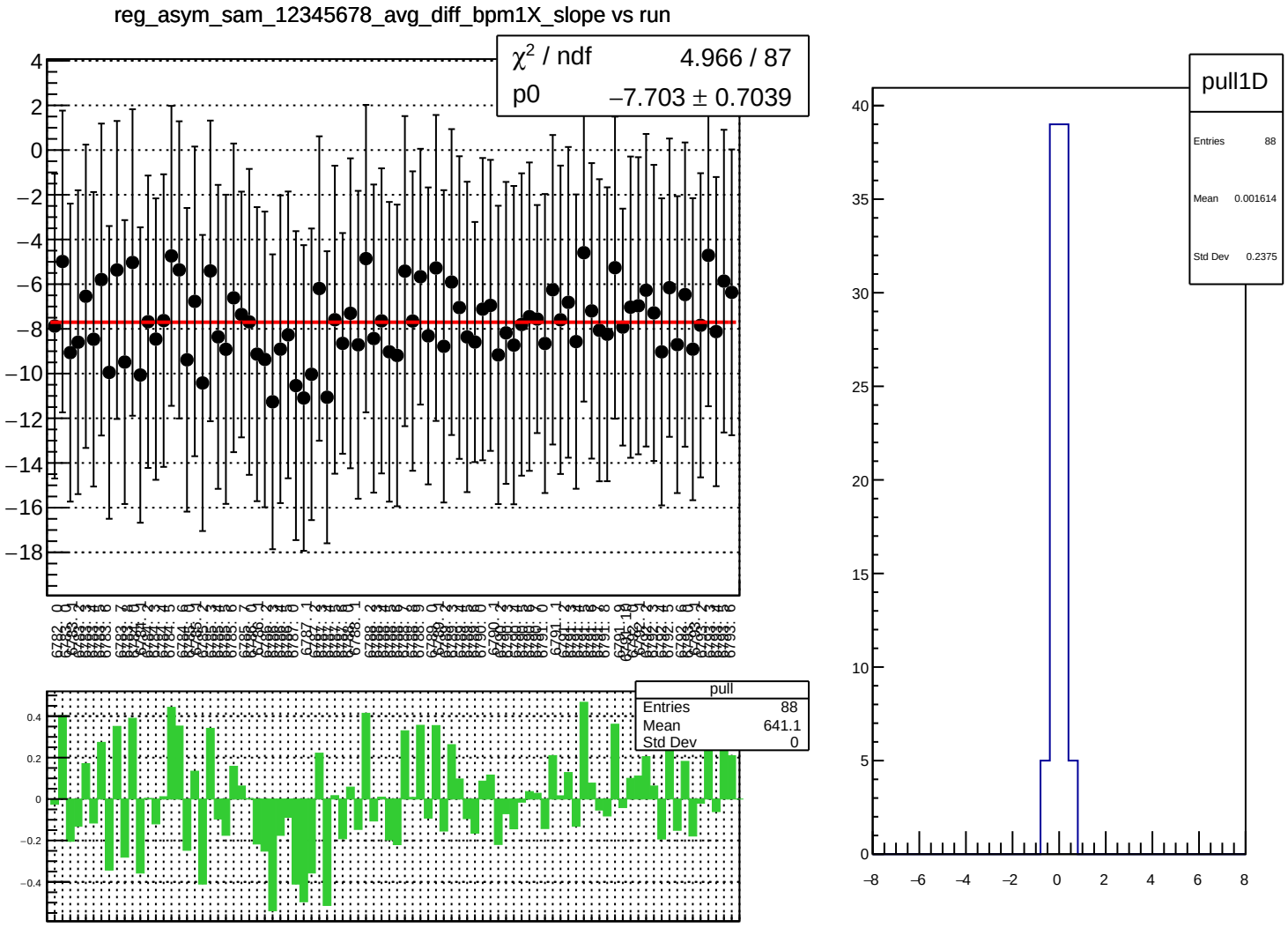

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.357 / 87
p0 2.527 ± 0.1137
pull
Entries 88
Mean −490.8
Std Dev 0

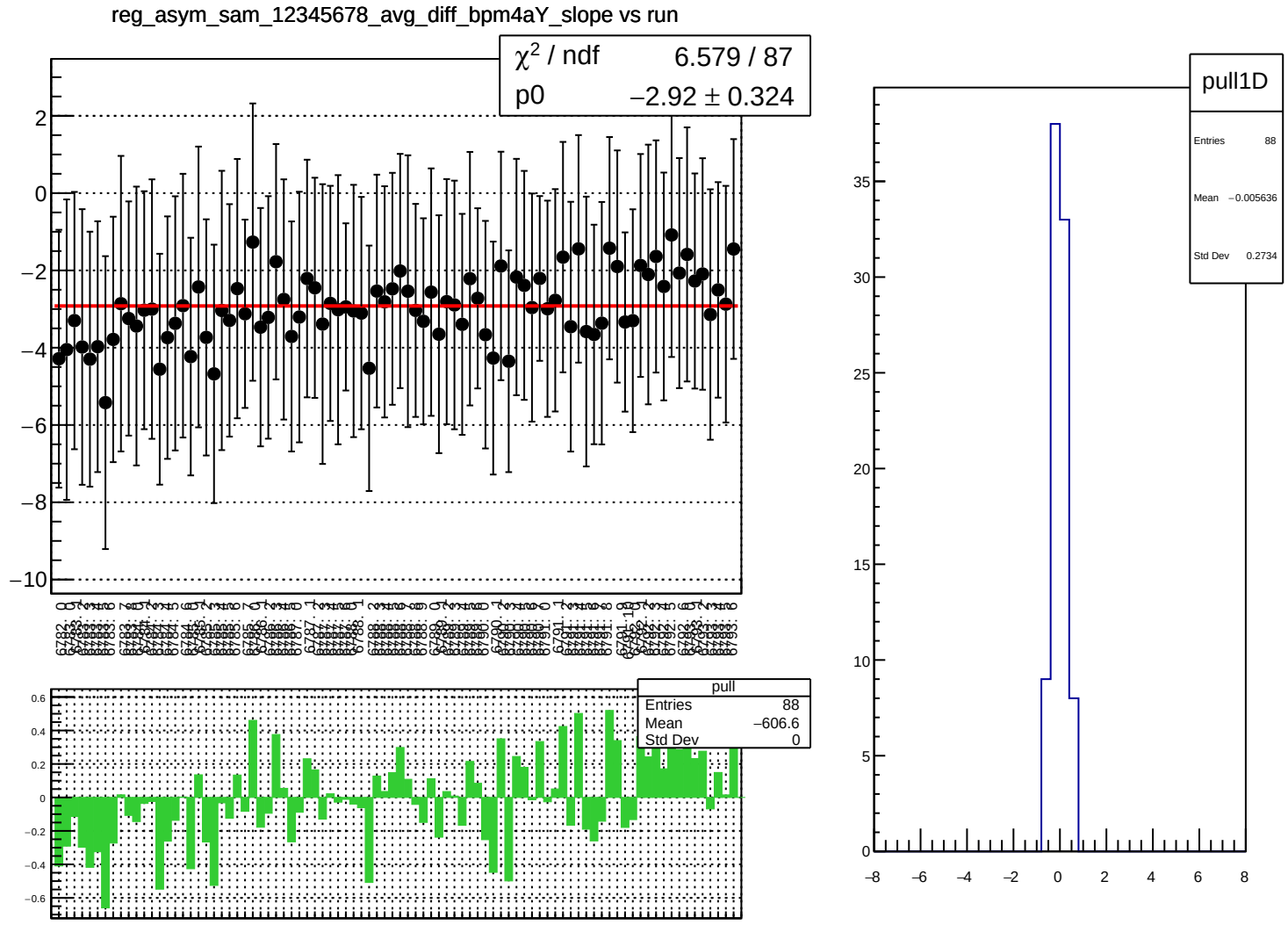

pull1D
Entries 88
Mean 0.003014
Std Dev 0.1953

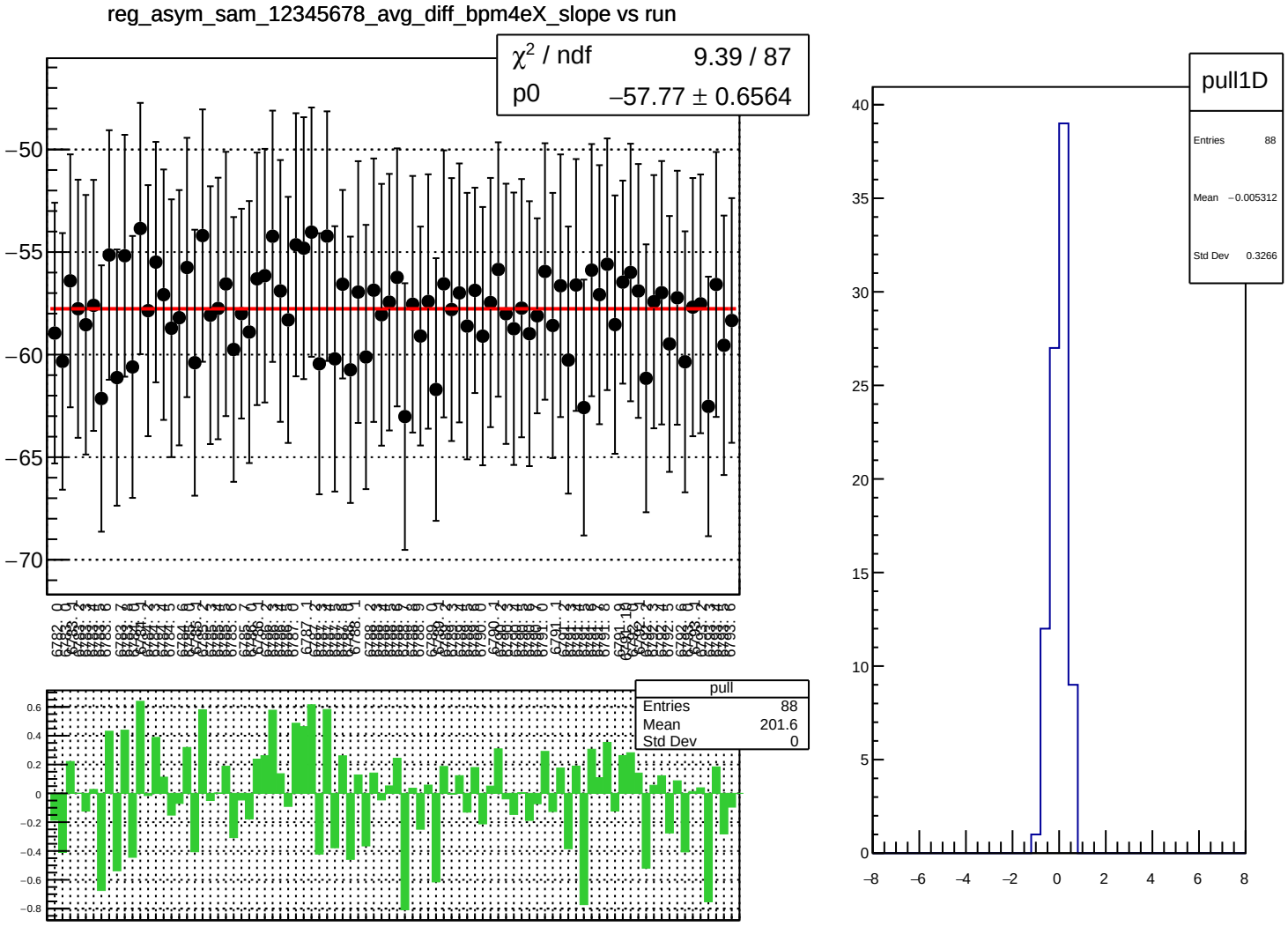

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.166 / 87
p0 19.58 ± 0.231
pull
Entries 88
Mean −64.26
Std Dev 0
pull1D
Entries 88
Mean 0.00768
Std Dev 0.2852

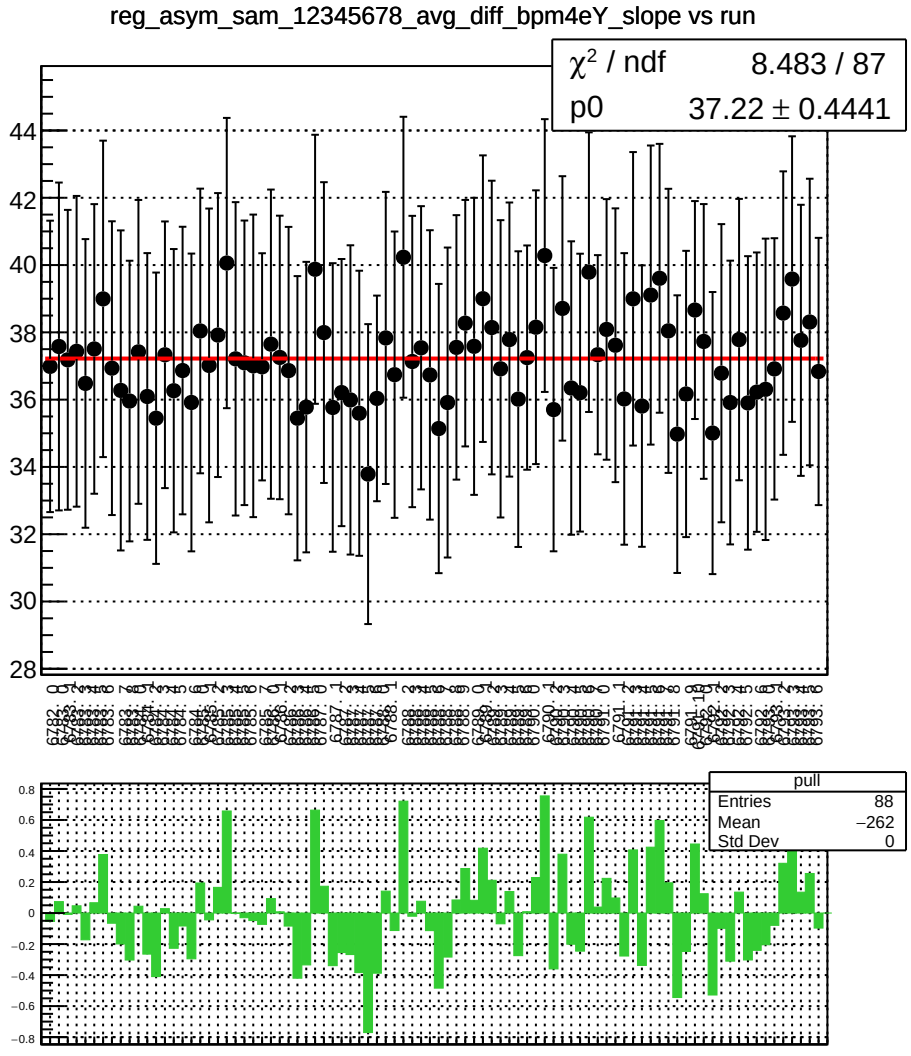

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.648 / 87
p0 −7.549 ± 0.1561
pull
Entries 88
Mean −392.2
Std Dev 0
pull1D
Entries 88
Mean 0.008053
Std Dev 0.2532

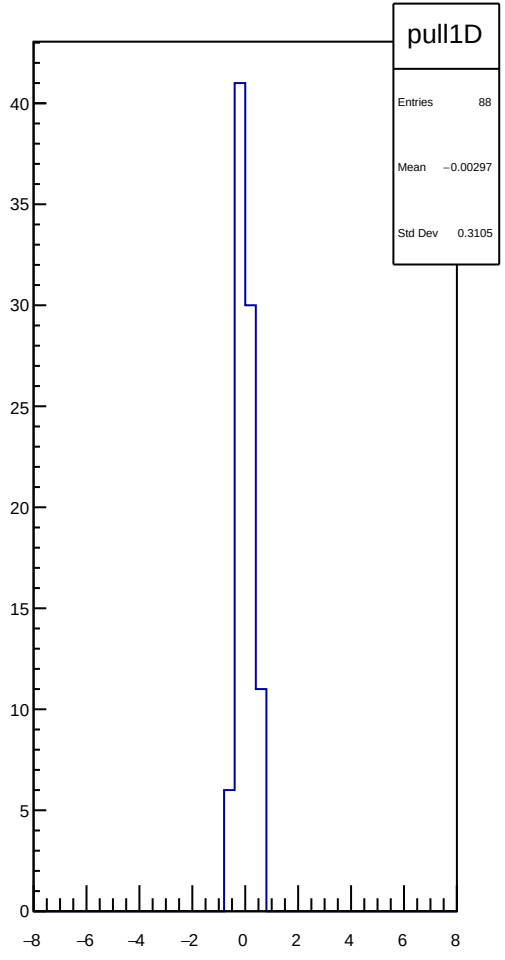

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.296 / 87
p0 −0.01687 ± 0.01026
pull
Entries 88
Mean −3855
Std Dev 0
pull1D
Entries 88
Mean 0.0003005
Std Dev 0.1615

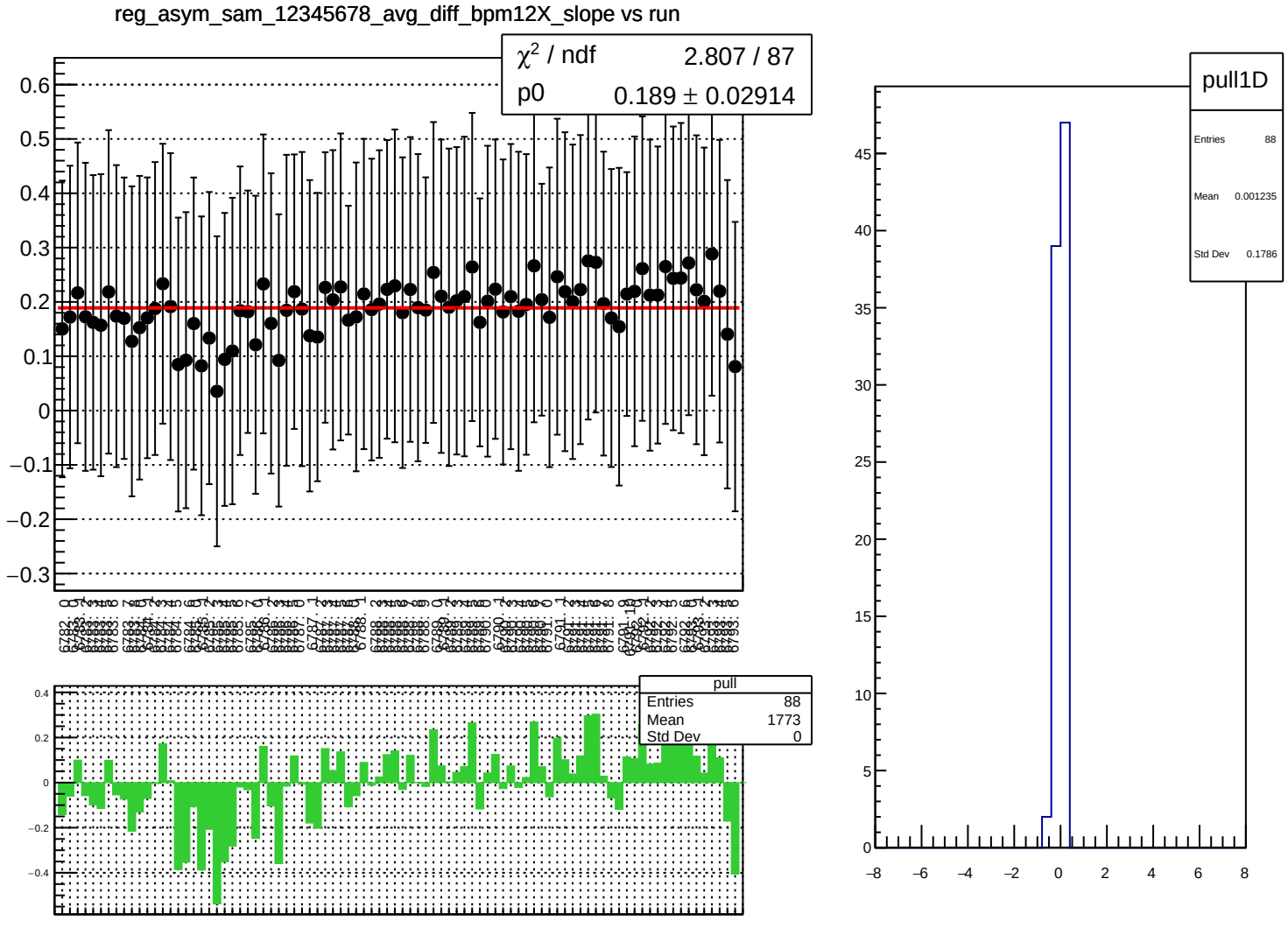

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.966 / 87
p0 −7.703 ± 0.7039
pull
Entries 88
Mean 641.1
Std Dev 0
pull1D
Entries 88
Mean 0.001614
Std Dev 0.2375

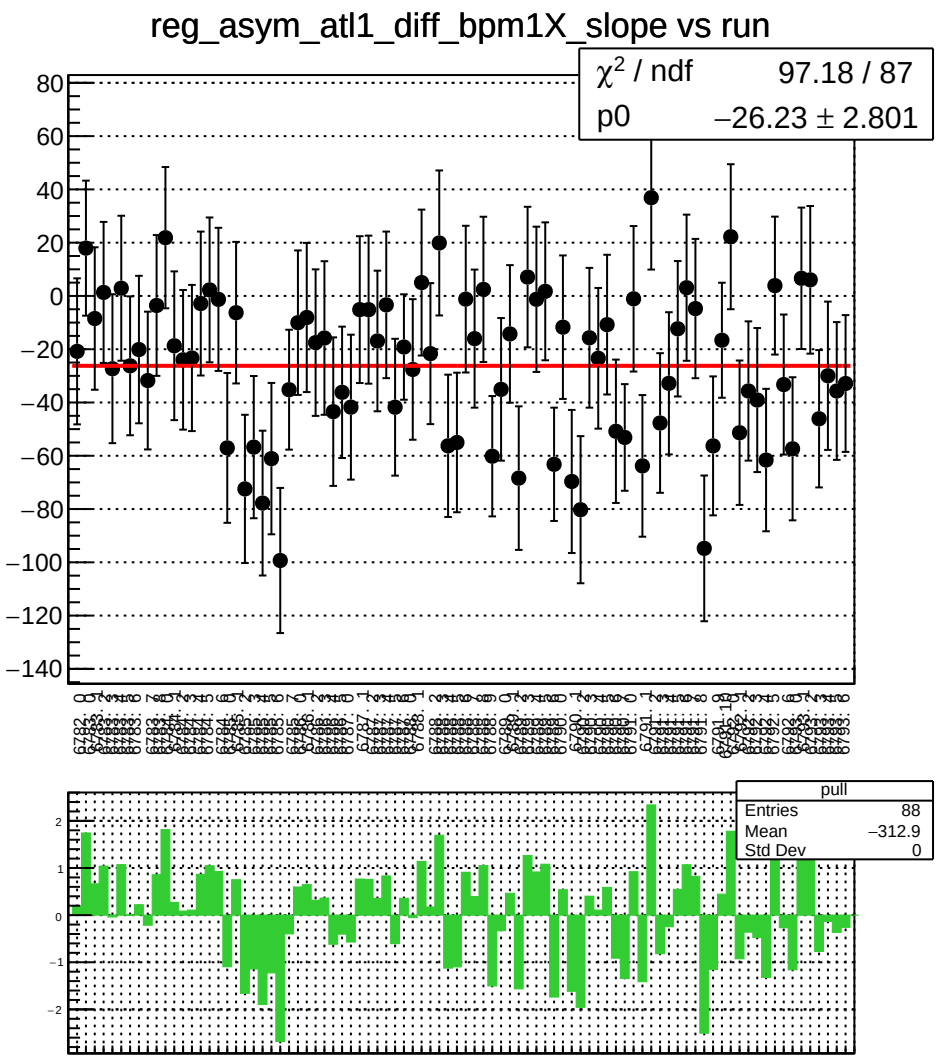

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.579 / 87
p0 −2.92 ± 0.324
pull
Entries 88
Mean −606.6
Std Dev 0
pull1D
Entries 88
Mean −0.005636
Std Dev 0.2734

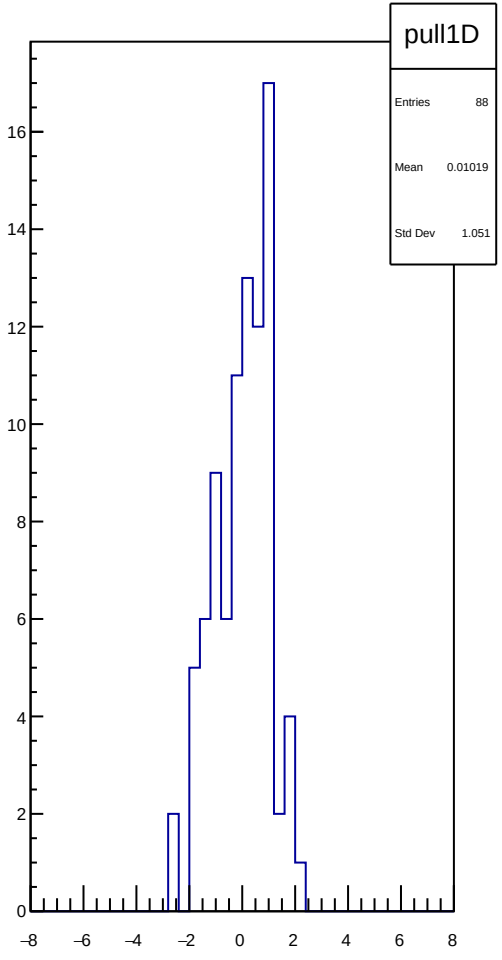

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.39 / 87
p0 −57.77 ± 0.6564
−50
−55
−60
−65
−70
pull
Entries 88
Mean 201.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.005312
Std Dev 0.3266
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

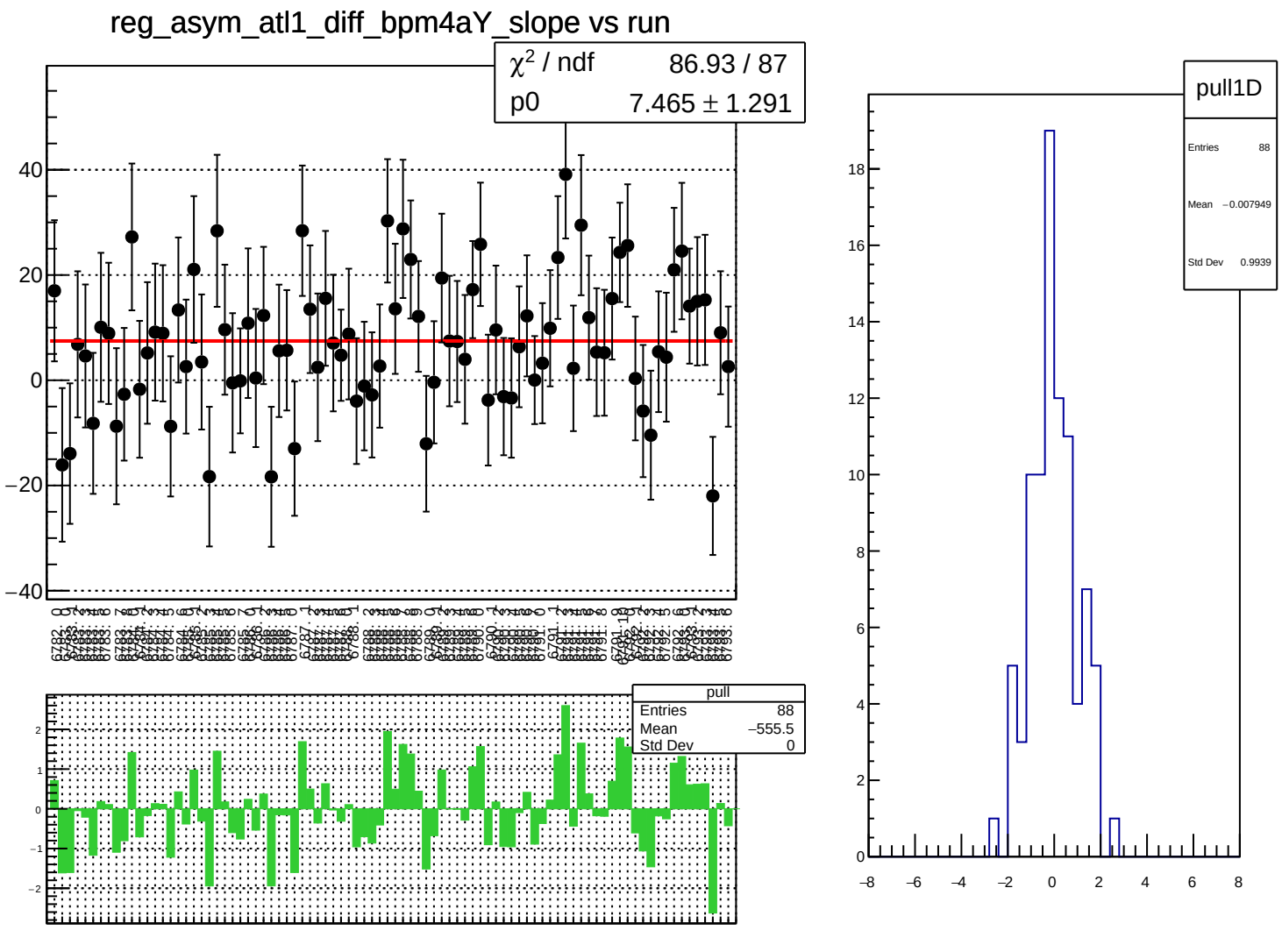

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.483 / 87
p0 37.22 ± 0.4441
pull
Entries 88
Mean −262
Std Dev 0

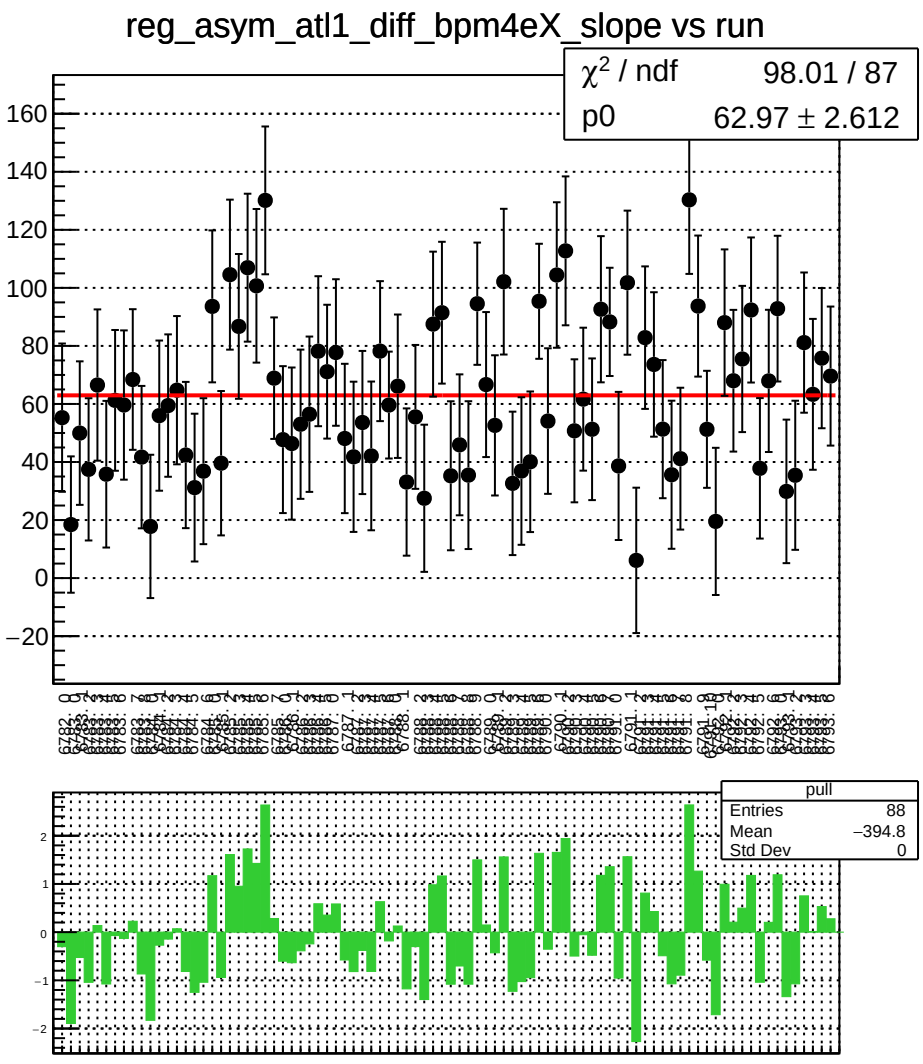

pull1D
Entries 88
Mean −0.00297
Std Dev 0.3105

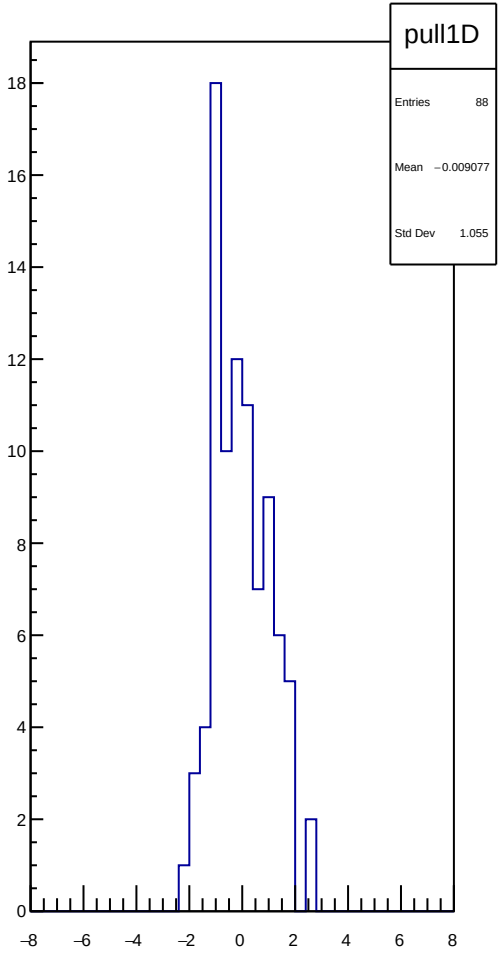

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.807 / 87
p0 0.189 ± 0.02914
pull
Entries 88
Mean 1773
Std Dev 0
pull1D
Entries 88
Mean 0.001235
Std Dev 0.1786

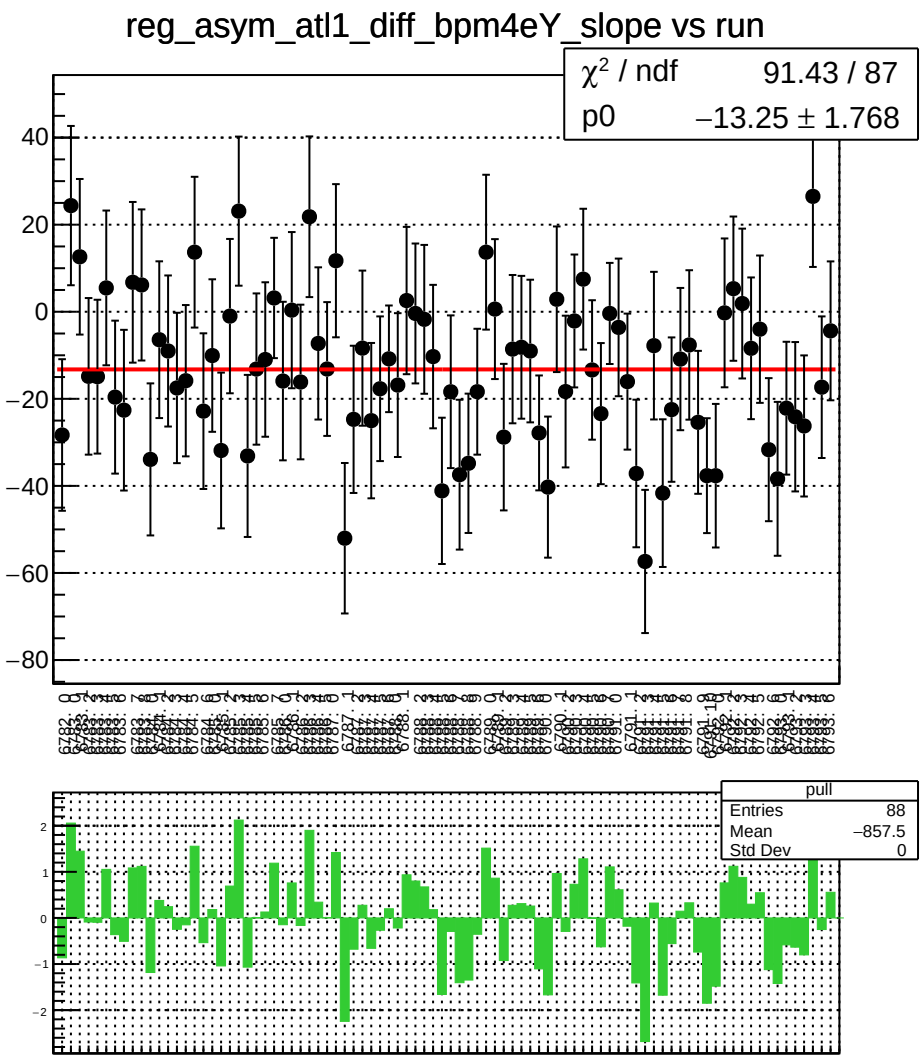

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 97.18 / 87
p0 −26.23 ± 2.801
pull
Entries 88
Mean −312.9
Std Dev 0

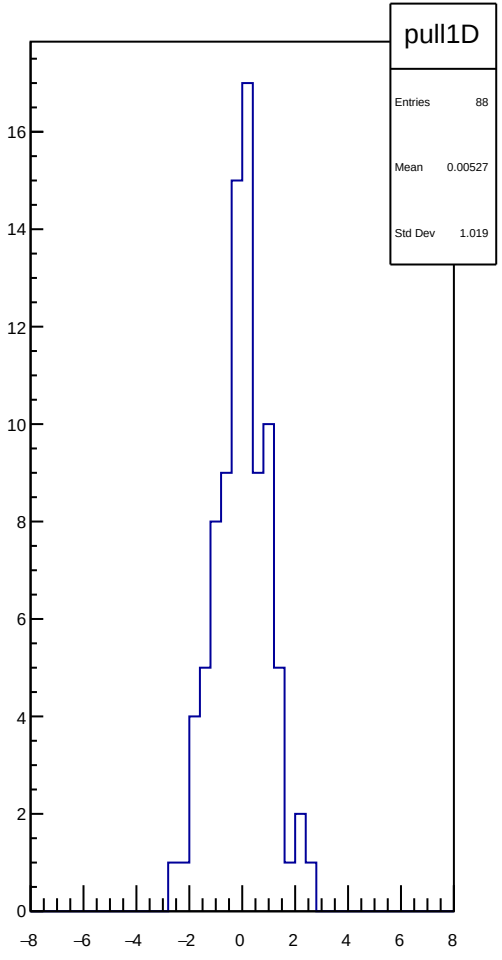

pull1D
Entries 88
Mean 0.01019
Std Dev 1.051

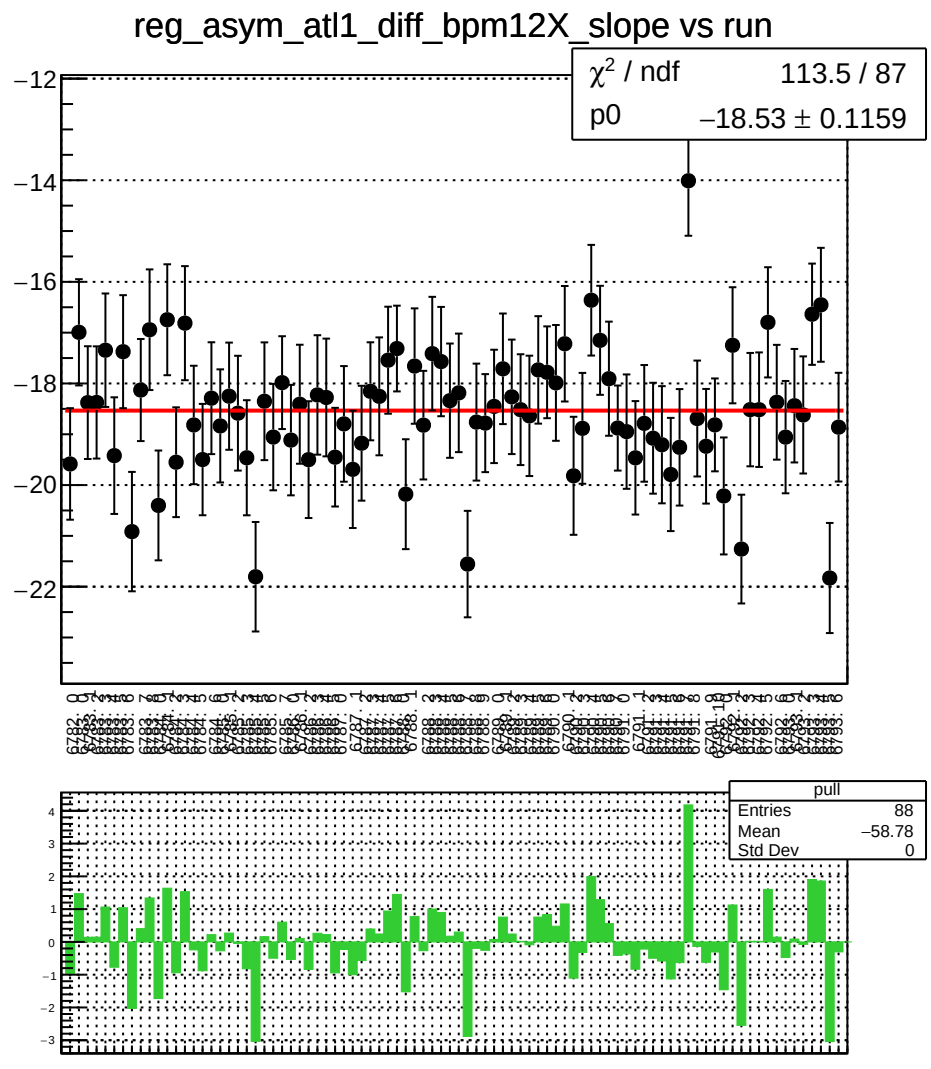

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 86.93 / 87
p0 7.465 ± 1.291
40
20
0
−20
−40
pull
Entries 88
Mean −555.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007949
Std Dev 0.9939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

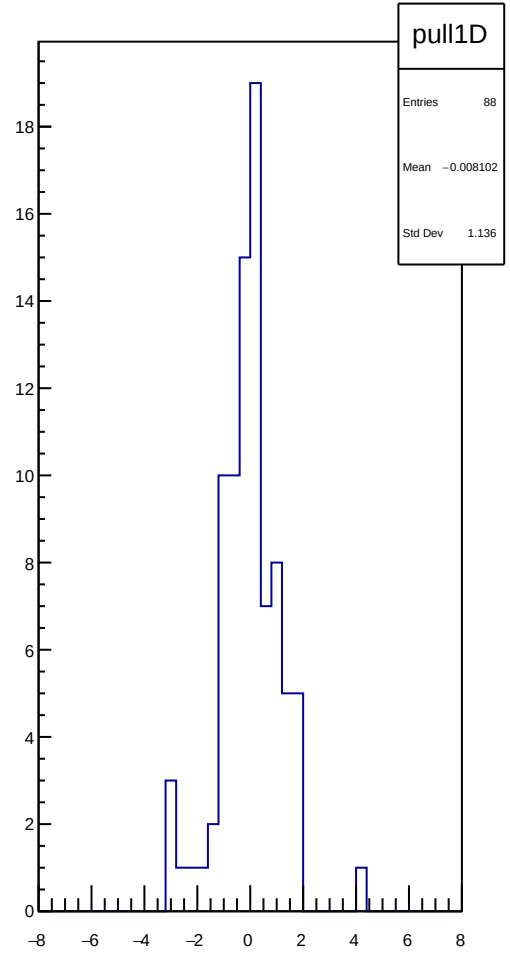

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 98.01 / 87
p0 62.97 ± 2.612
pull
Entries 88
Mean −394.8
Std Dev 0

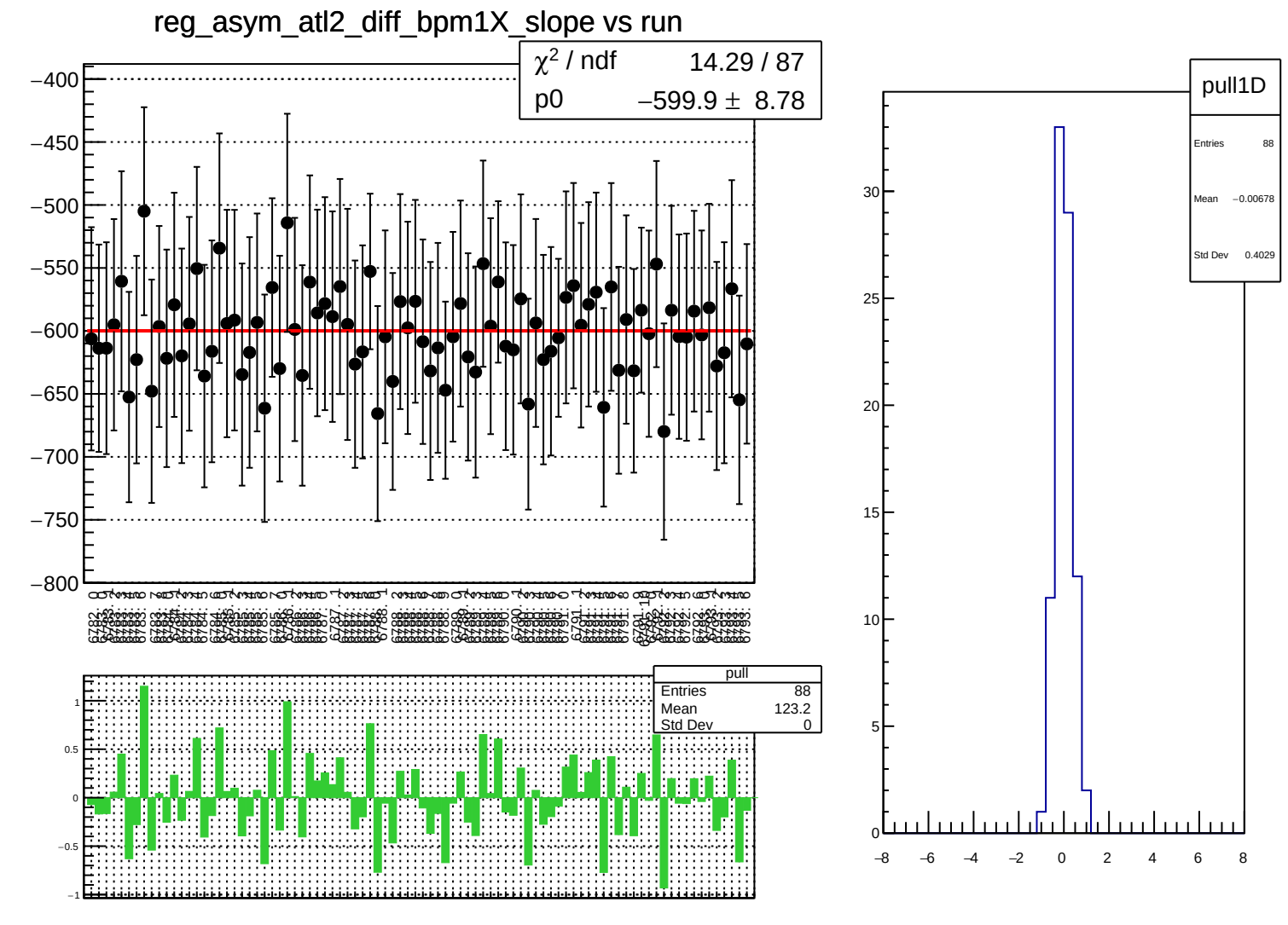

pull1D
Entries 88
Mean −0.009077
Std Dev 1.055

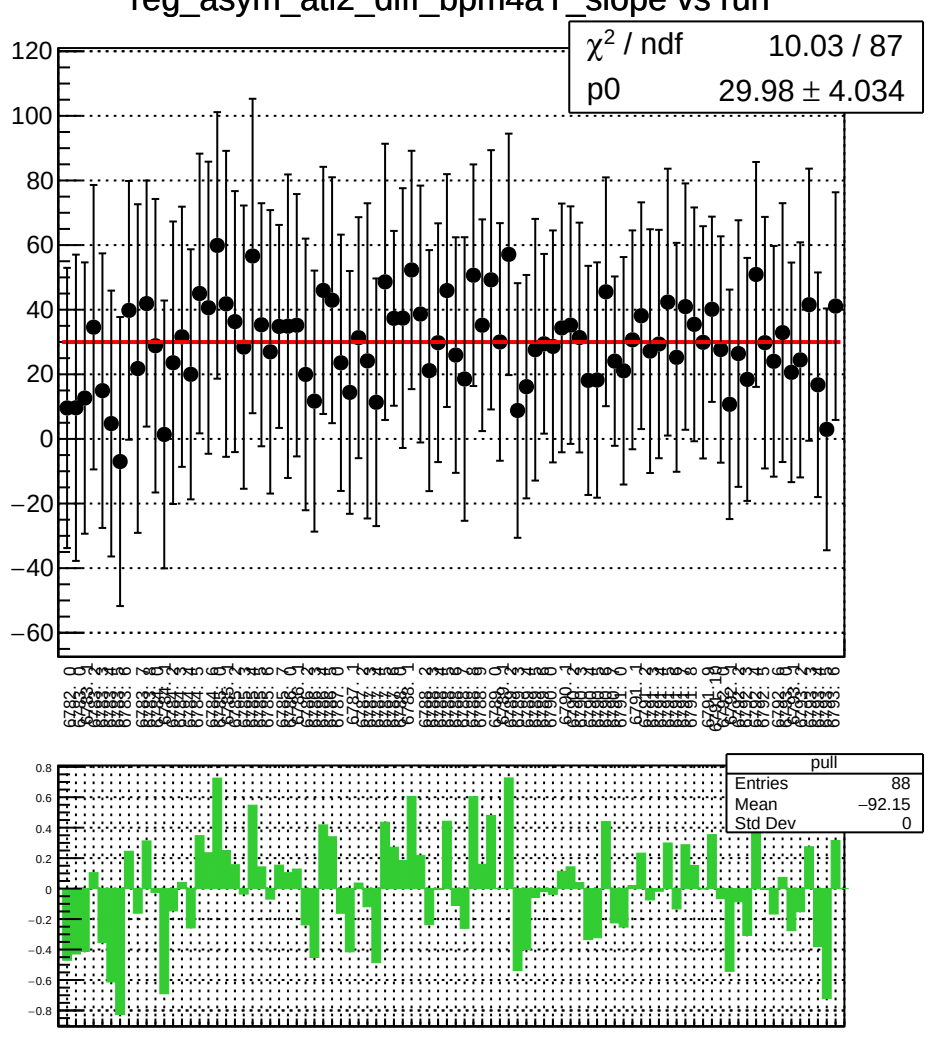

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 91.43 / 87
p0 −13.25 ± 1.768
pull
Entries 88
Mean −857.5
Std Dev 0

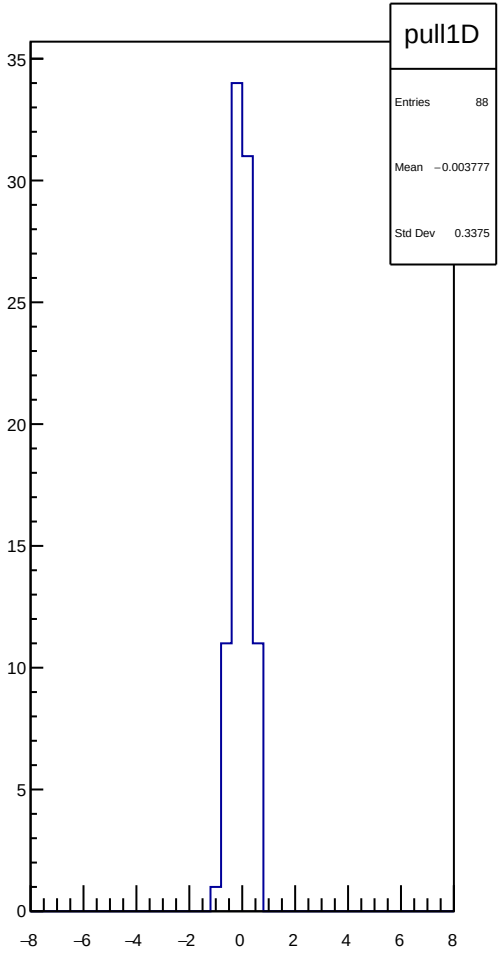

pull1D
Entries 88
Mean 0.00527
Std Dev 1.019

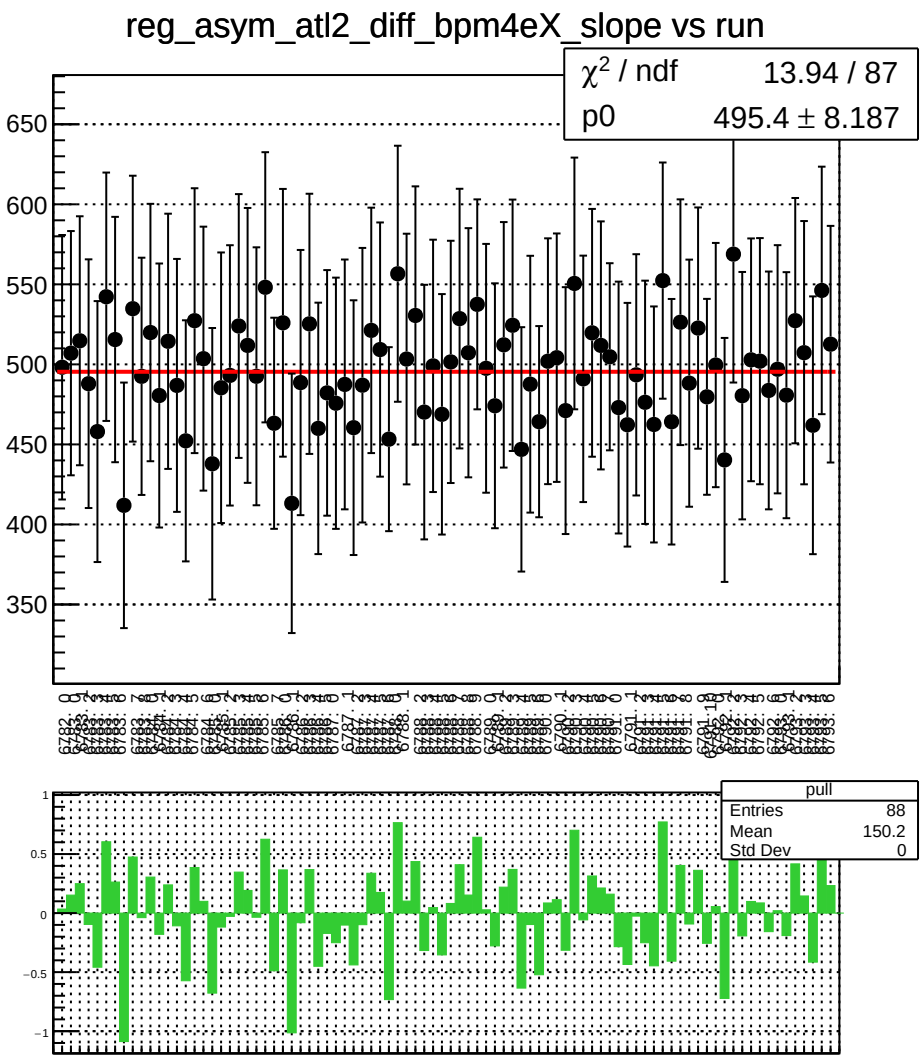

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 113.5 / 87
p0 −18.53 ± 0.1159
pull
Entries 88
Mean −58.78
Std Dev 0

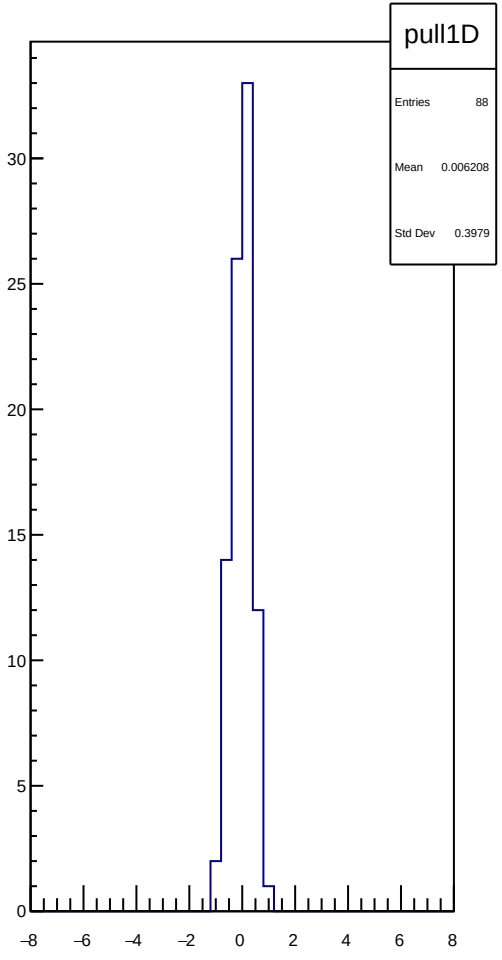

pull1D
Entries 88
Mean −0.008102
Std Dev 1.136

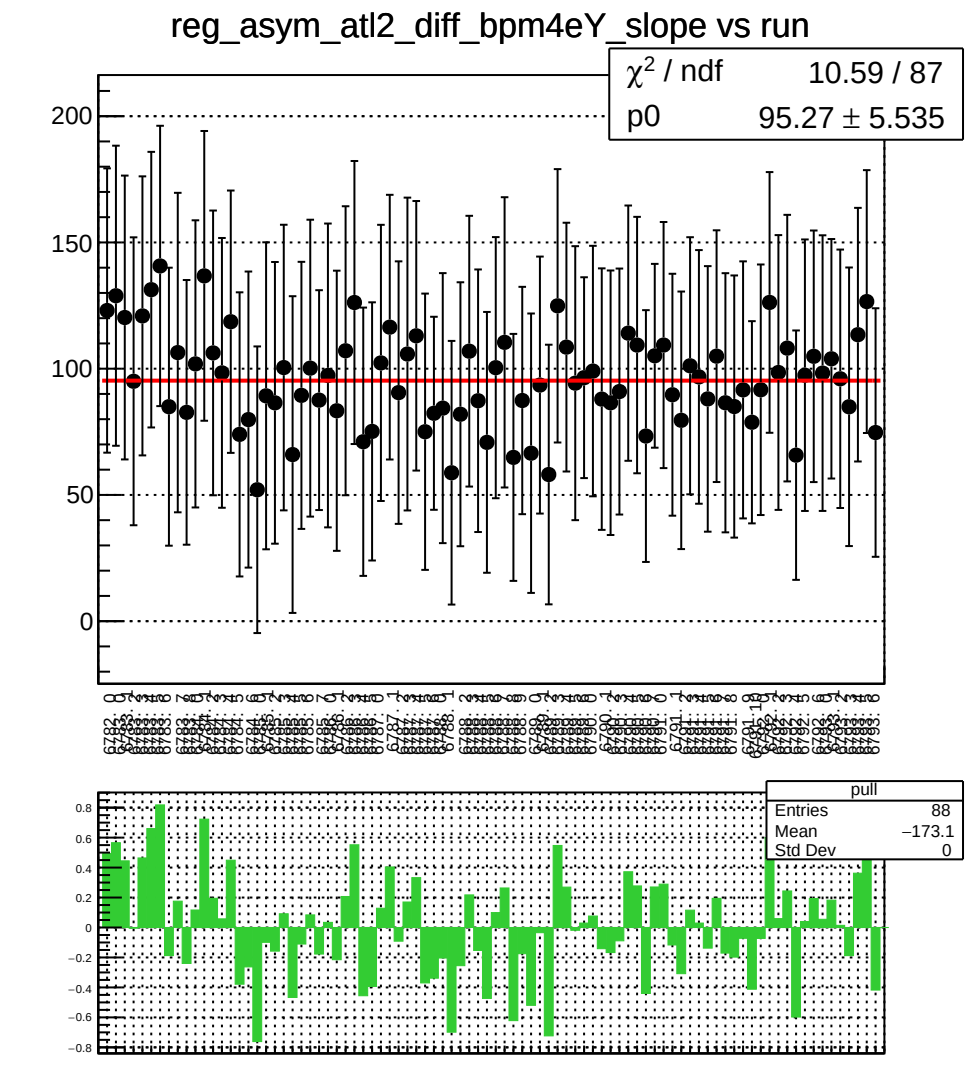

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 14.29 / 87
p0 −599.9 ± 8.78
−400
−450
−500
−550
−600
−650
−700
−750
−800
pull
Entries 88
Mean 123.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.00678
Std Dev 0.4029
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

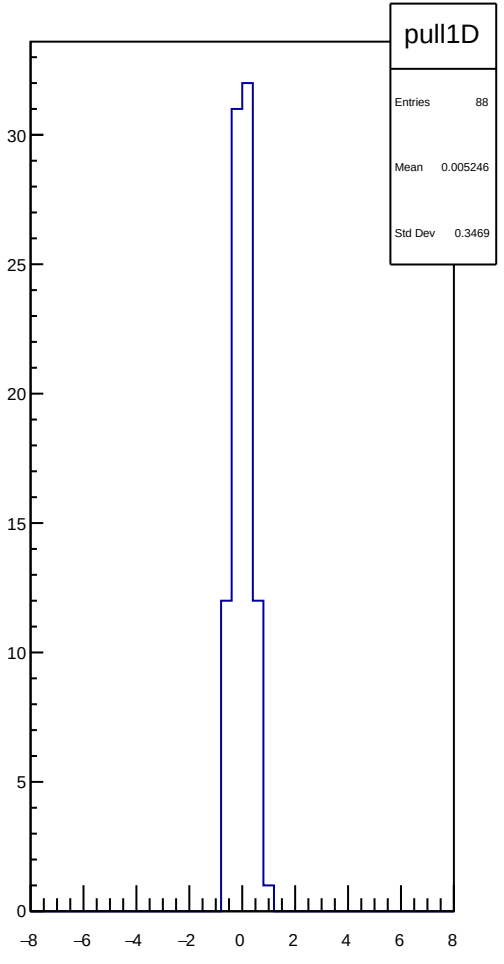

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 10.03 / 87
p0 29.98 ± 4.034
pull
Entries 88
Mean −92.15
Std Dev 0

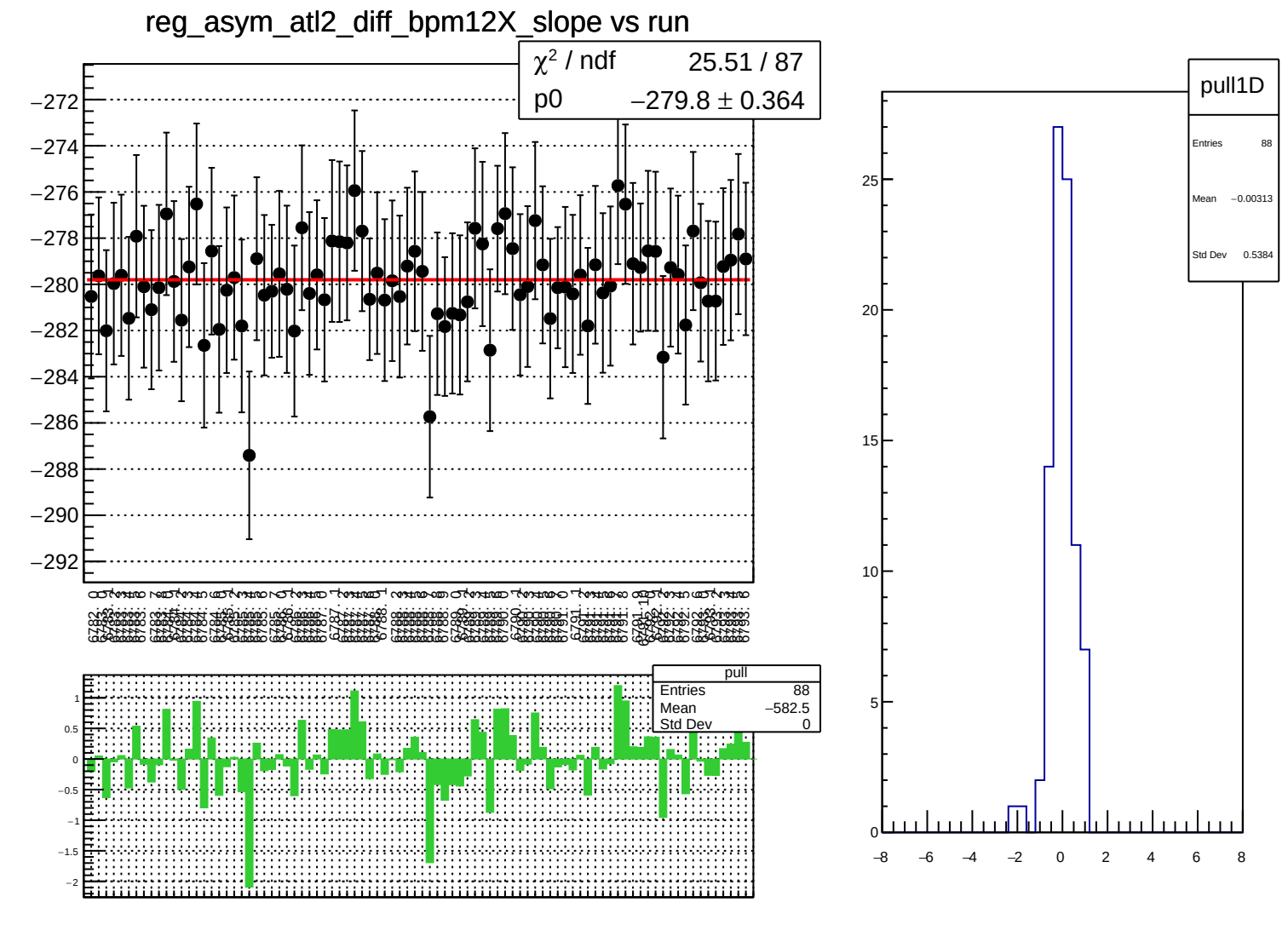

pull1D
Entries 88
Mean −0.003777
Std Dev 0.3375

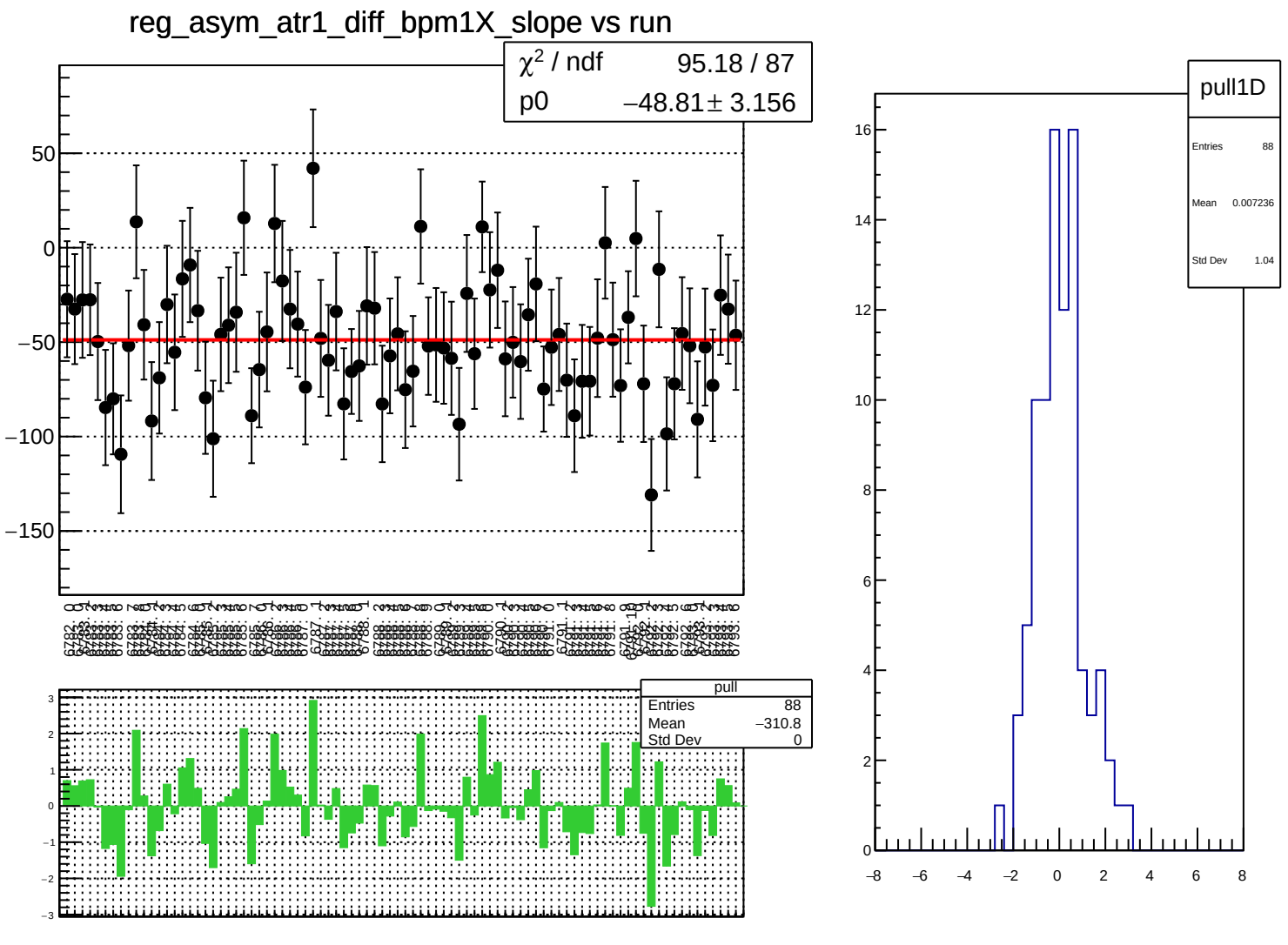

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 13.94 / 87
p0 495.4 ± 8.187
650
600
550
500
450
400
350
pull
Entries 88
Mean 150.2
Std Dev 0
1
0.5
0
−0.5
−1

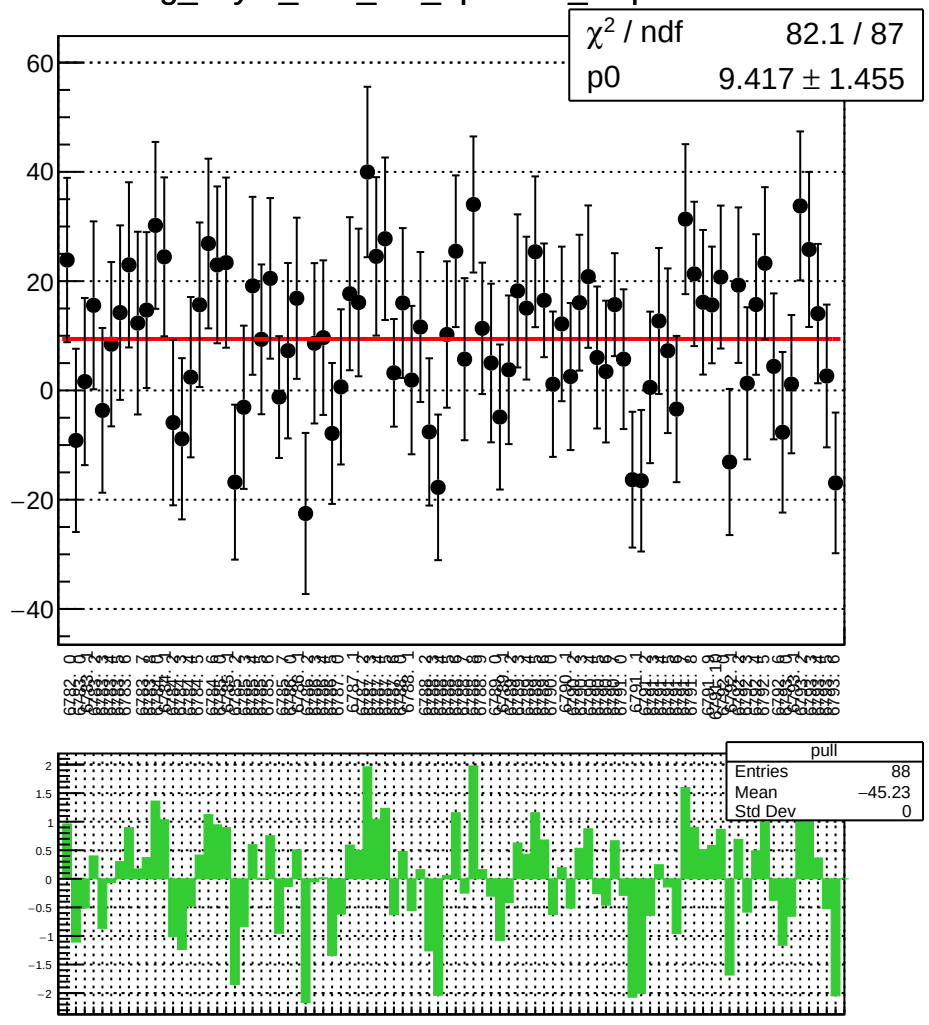

pull1D
Entries 88
Mean 0.006208
Std Dev 0.3979
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

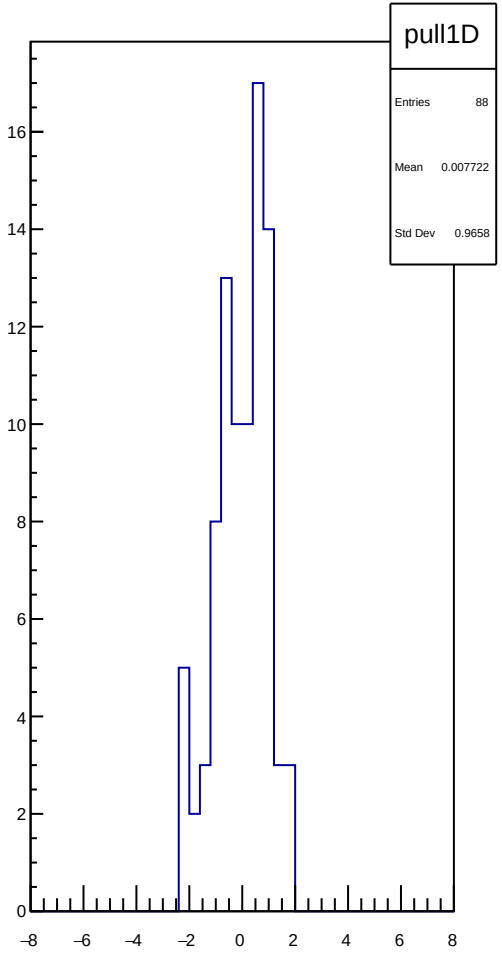

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.59 / 87
p0 95.27 ± 5.535
200
150
100
50
0
pull
Entries 88
Mean −173.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

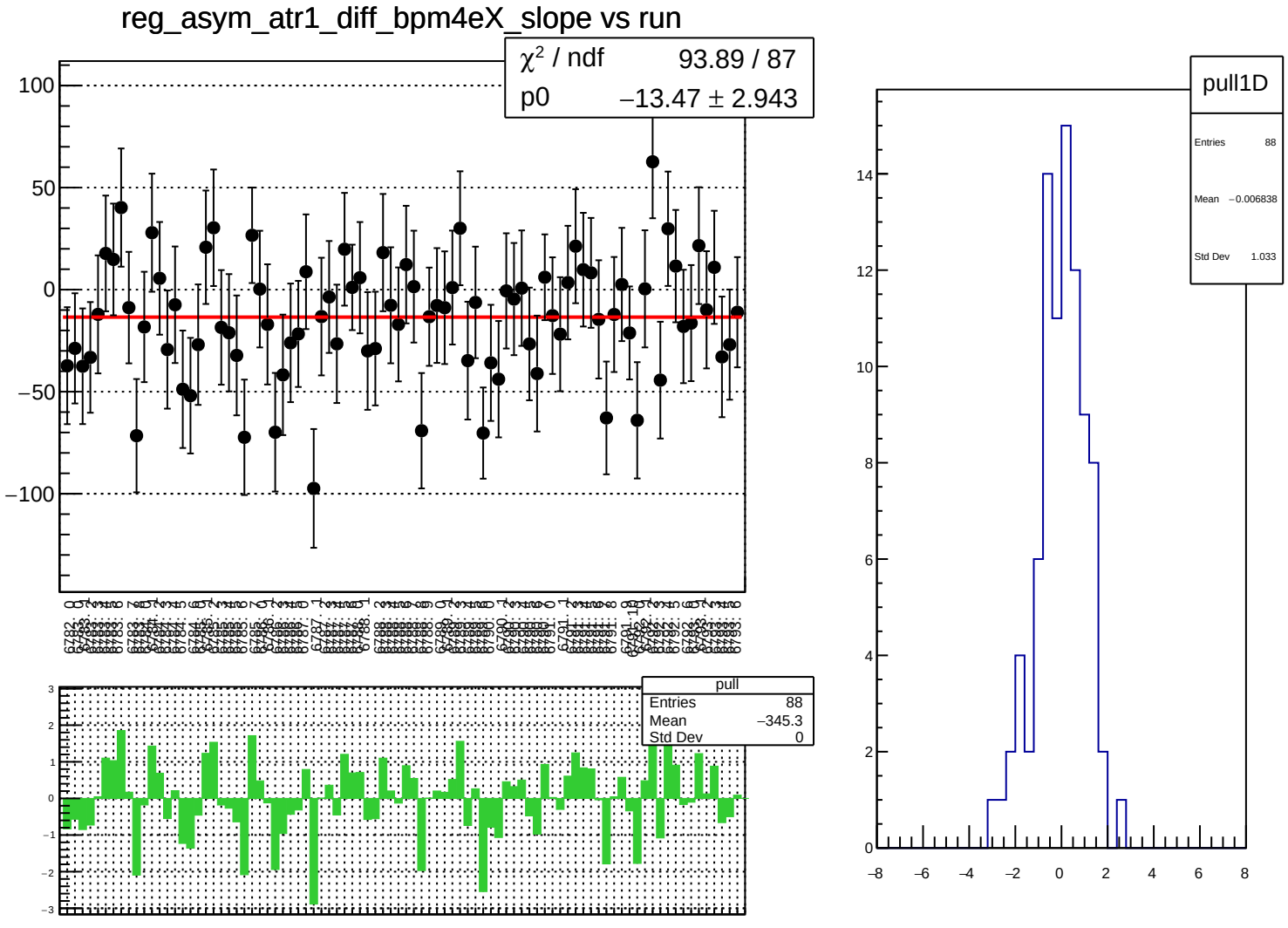

pull1D
Entries 88
Mean 0.005246
Std Dev 0.3469
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

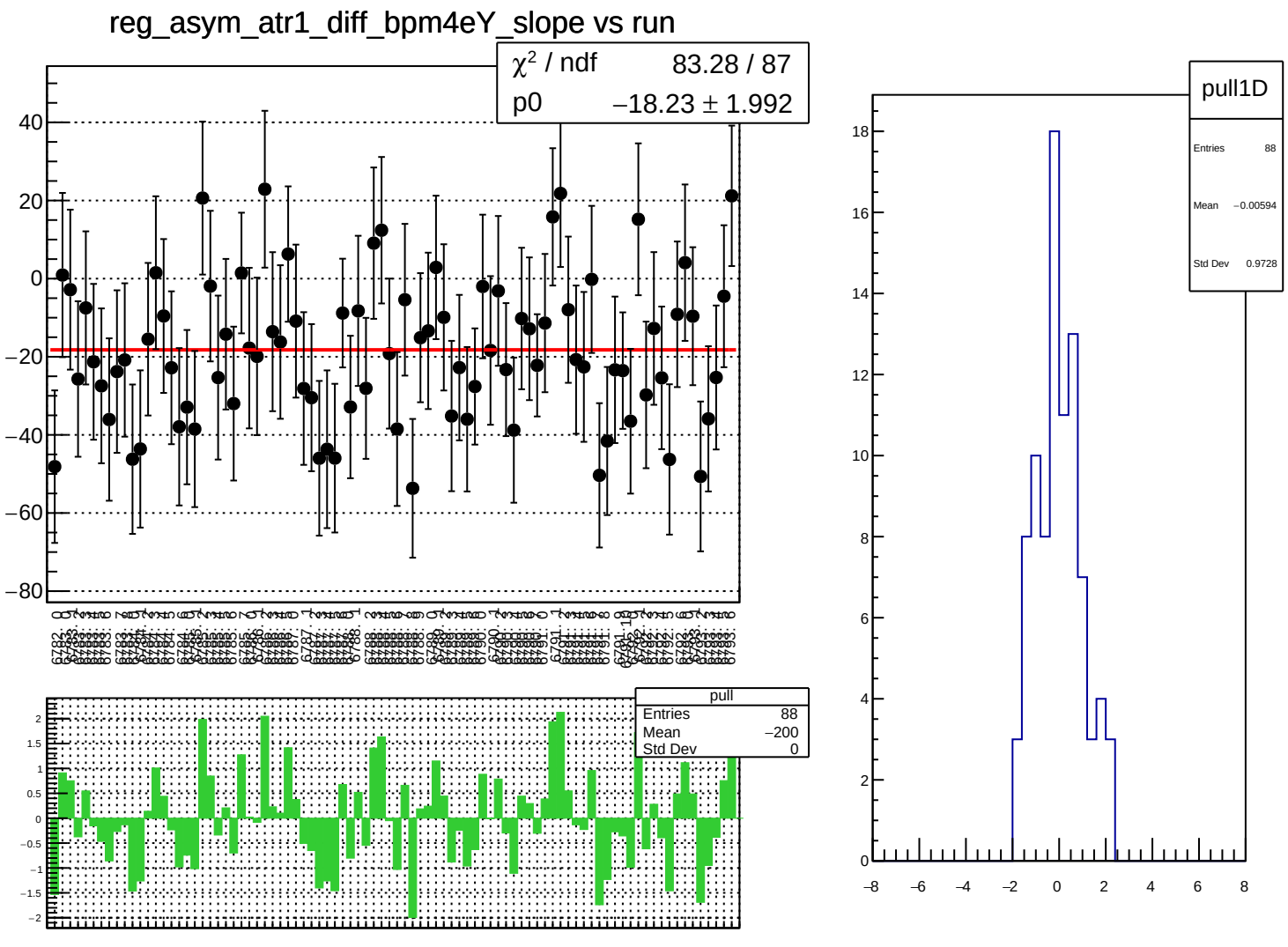

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 25.51 / 87
p0 −279.8 ± 0.364
pull
Entries 88
Mean −582.5
Std Dev 0
pull1D
Entries 88
Mean −0.00313
Std Dev 0.5384

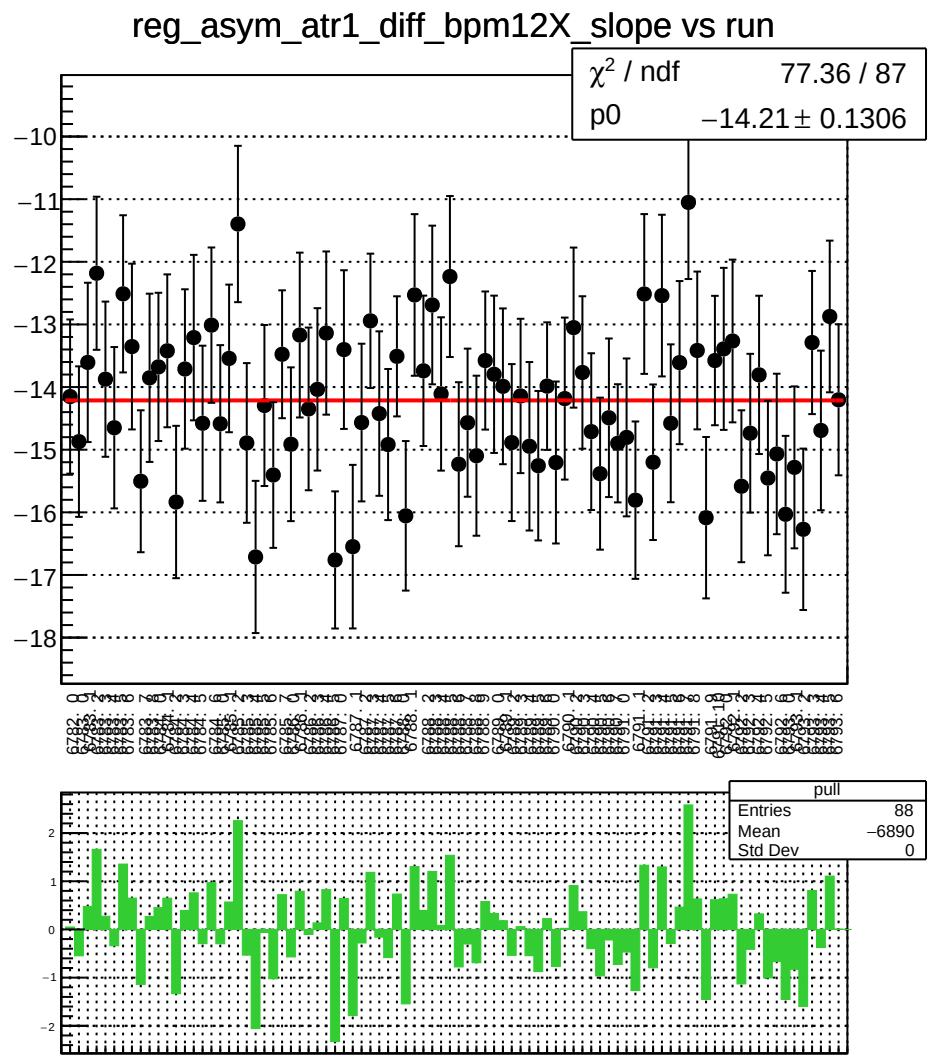

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 95.18 / 87
p0 −48.81 ± 3.156
50
0
−50
−100
−150
pull
Entries 88
Mean −310.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.007236
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

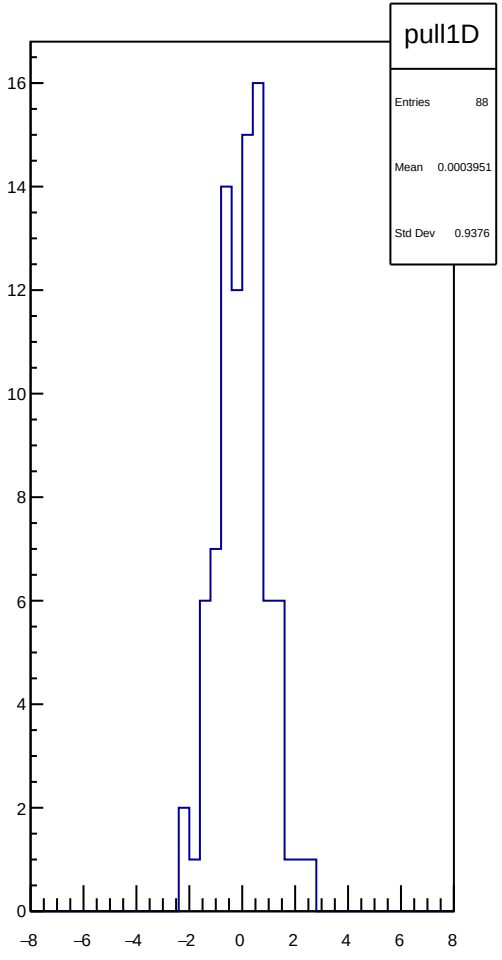

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 82.1 / 87
p0 9.417 ± 1.455
pull
Entries 88
Mean −45.23
Std Dev 0

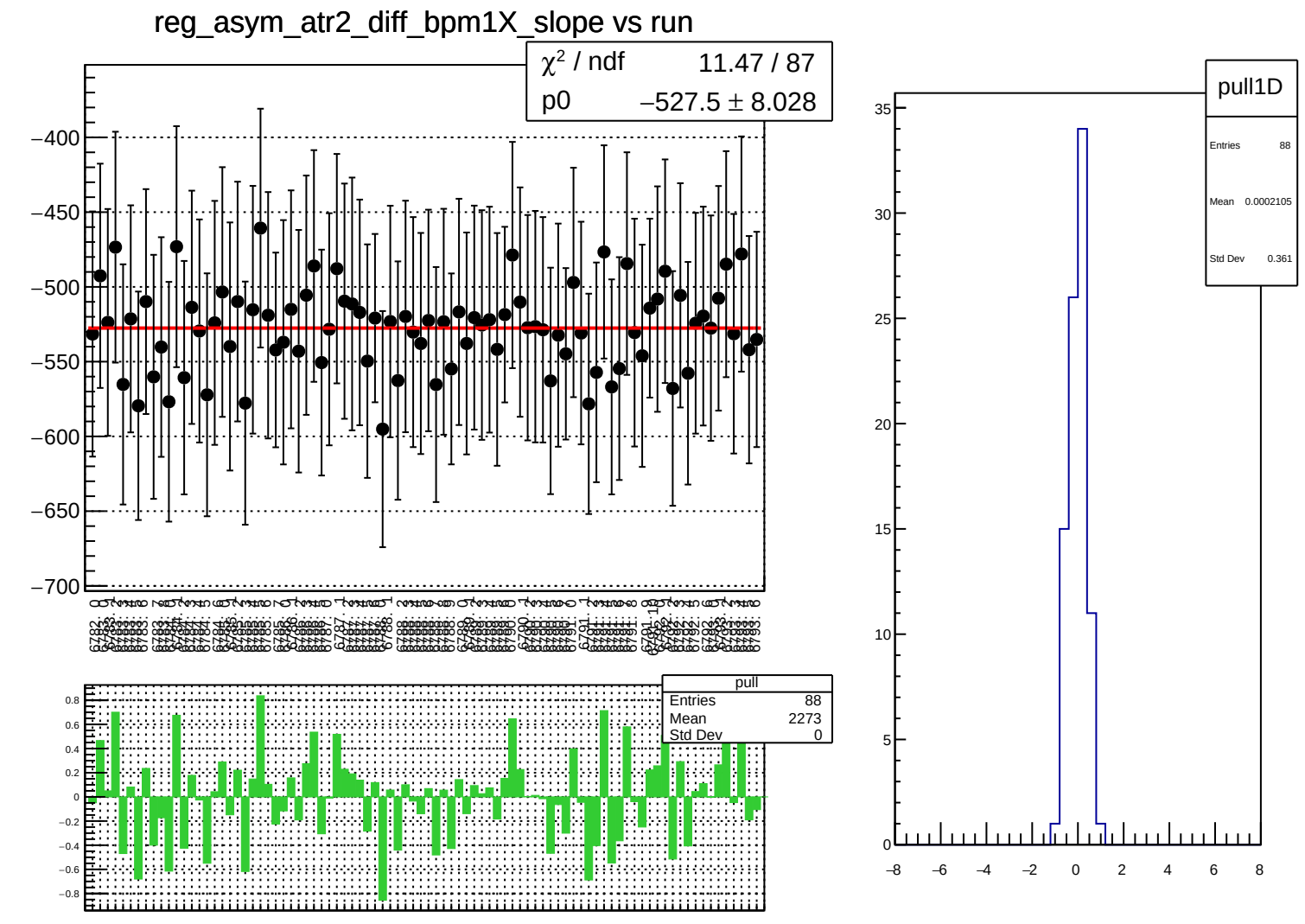

pull1D
Entries 88
Mean 0.007722
Std Dev 0.9658

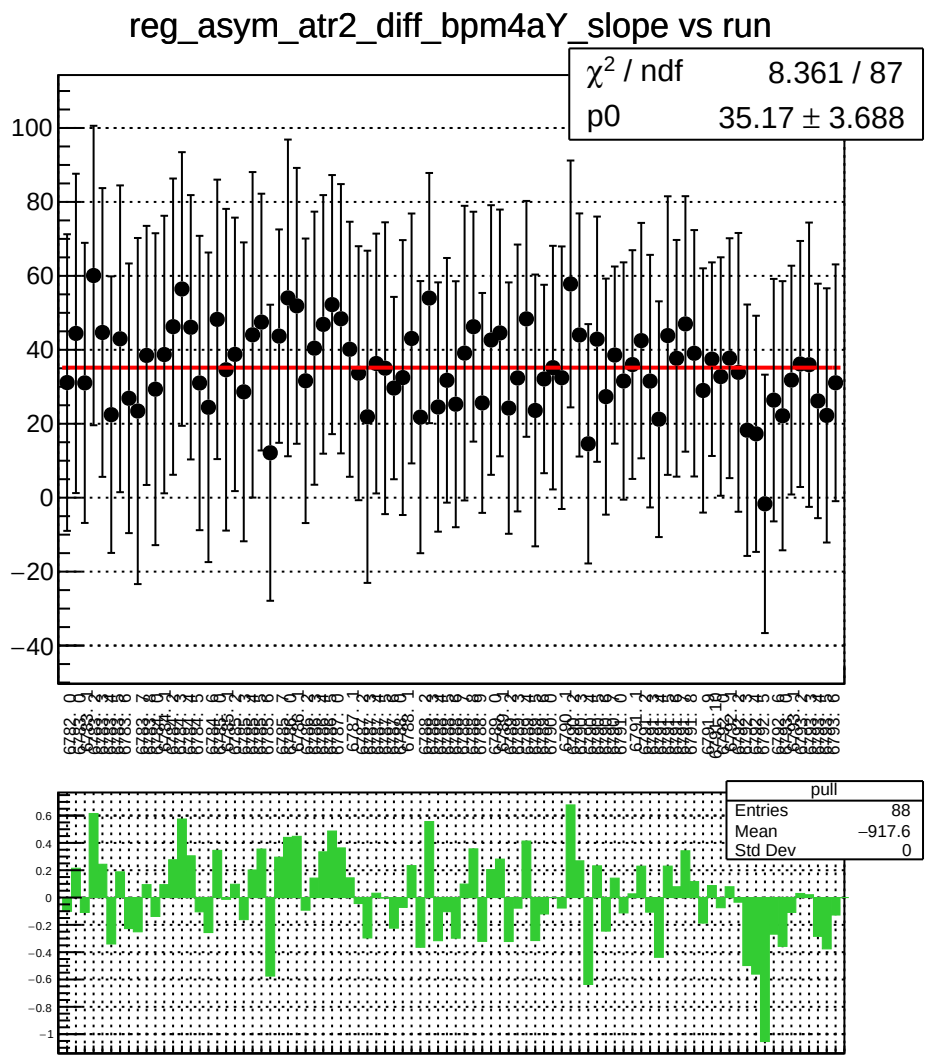

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 93.89 / 87
p0 −13.47 ± 2.943
pull
Entries 88
Mean −345.3
Std Dev 0
pull1D
Entries 88
Mean −0.006838
Std Dev 1.033

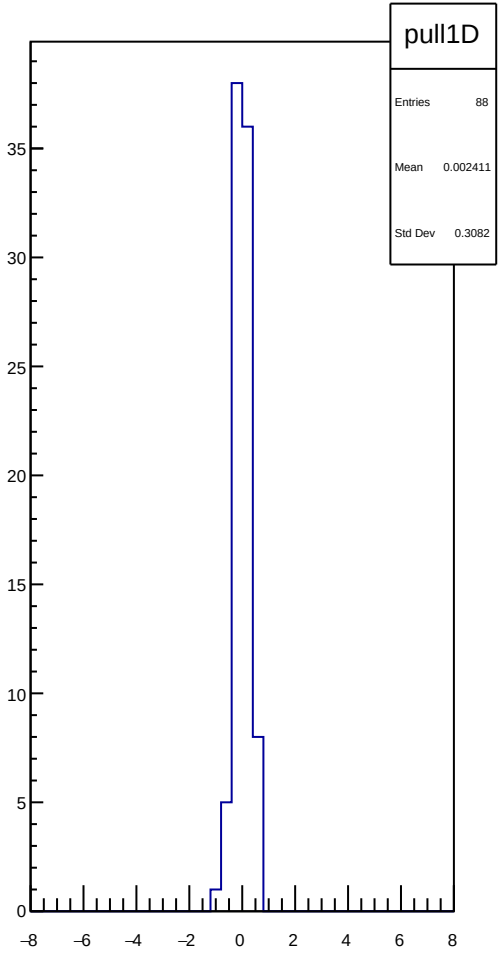

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 83.28 / 87
p0 −18.23 ± 1.992
pull
Entries 88
Mean −200
Std Dev 0
pull1D
Entries 88
Mean −0.00594
Std Dev 0.9728

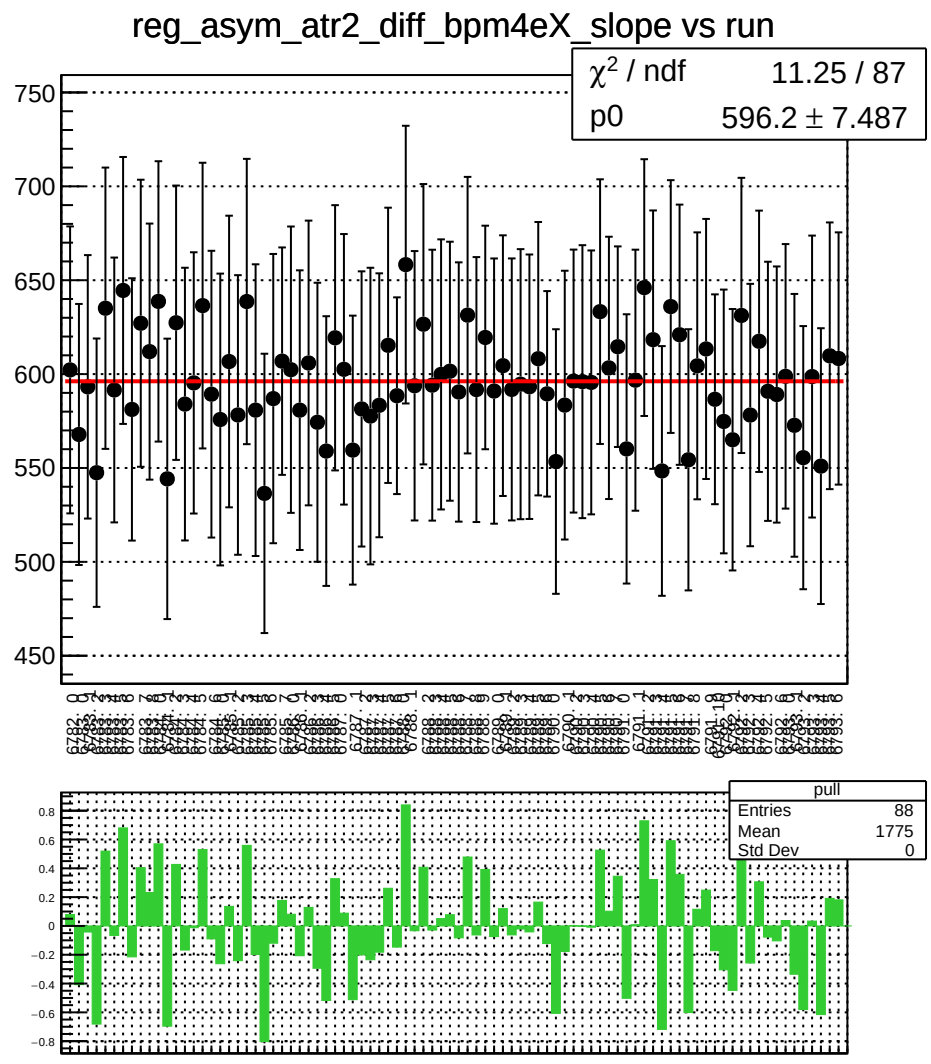

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 77.36 / 87
p0 −14.21 ± 0.1306
pull
Entries 88
Mean −6890
Std Dev 0

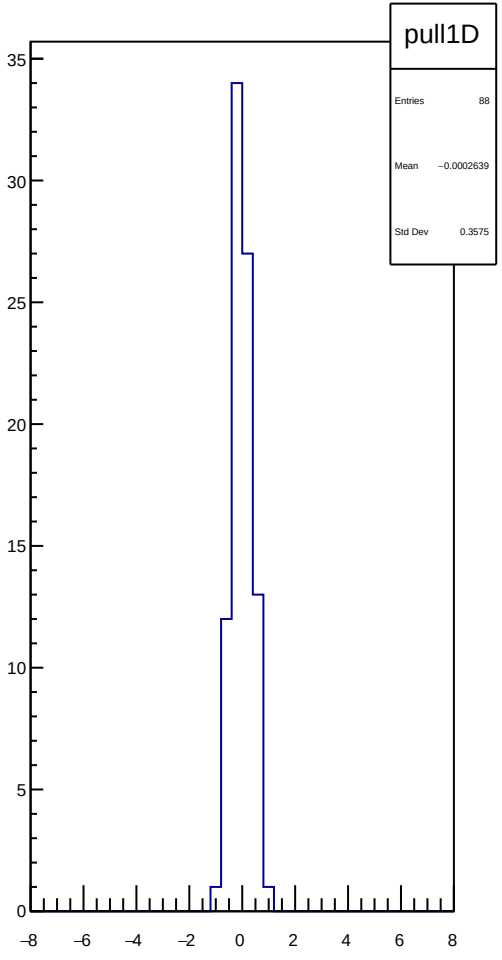

pull1D
Entries 88
Mean 0.0003951
Std Dev 0.9376

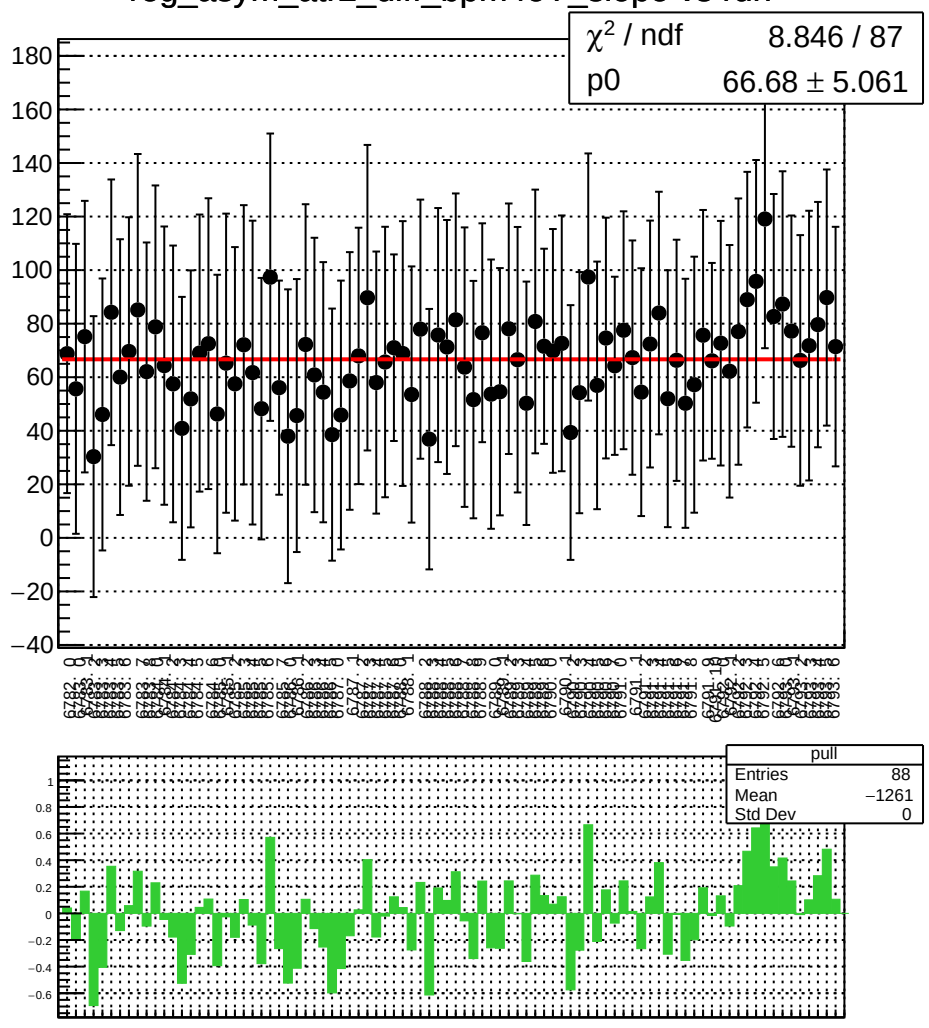

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 11.47 / 87
p0 −527.5 ± 8.028
−400
−450
−500
−550
−600
−650
−700
pull
Entries 88
Mean 2273
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.0002105
Std Dev 0.361
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

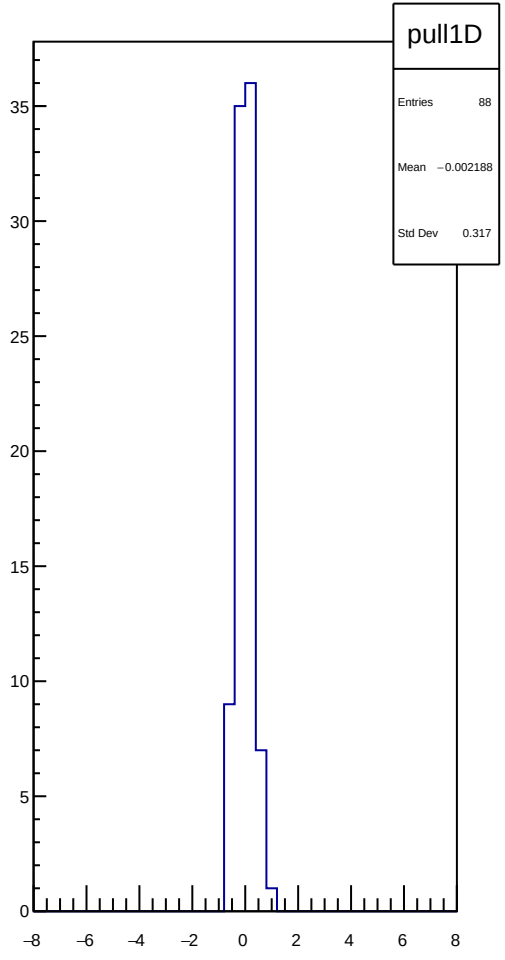

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 8.361 / 87
p0 35.17 ± 3.688
pull
Entries 88
Mean −917.6
Std Dev 0

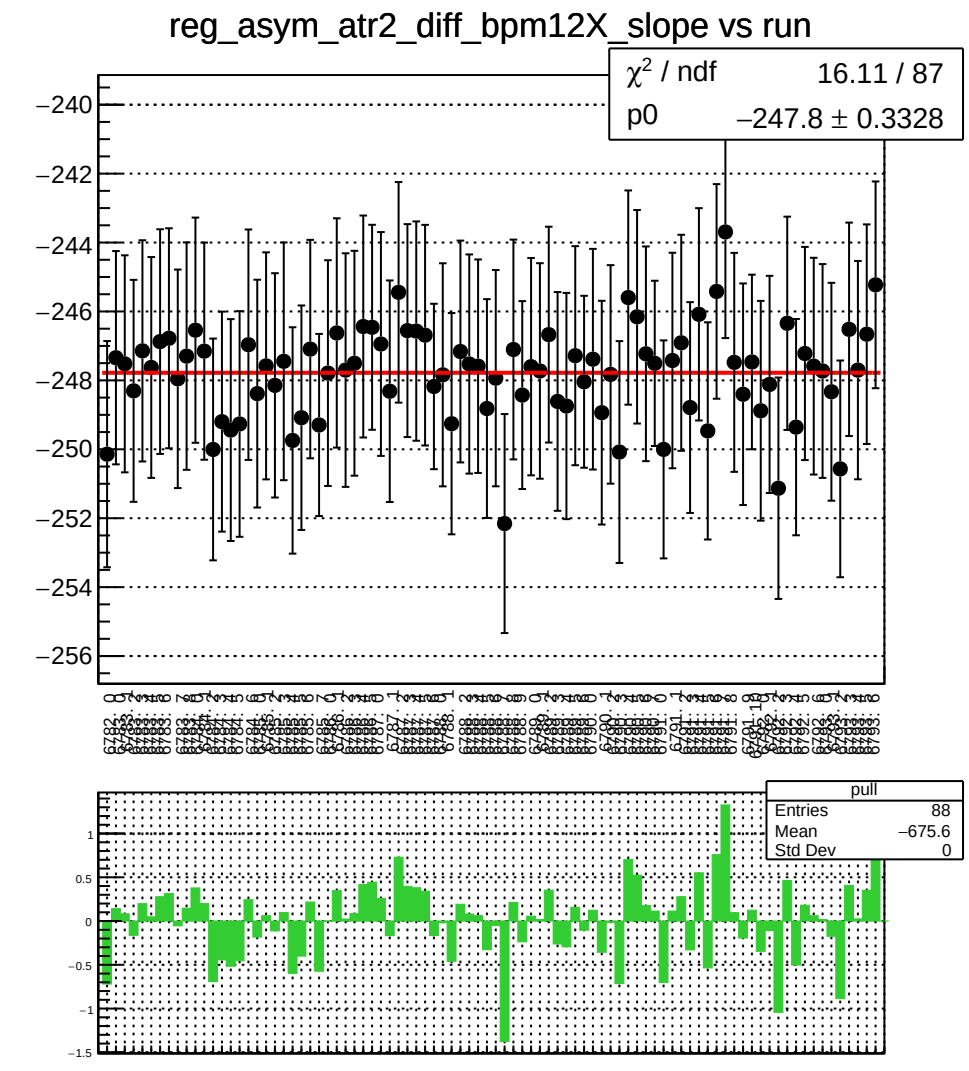

pull1D
Entries 88
Mean 0.002411
Std Dev 0.3082

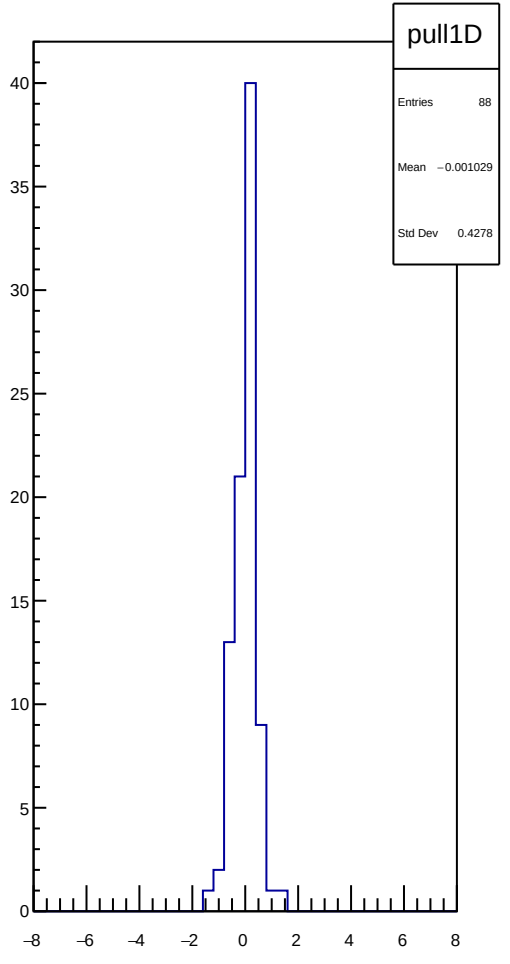

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 11.25 / 87
p0 596.2 ± 7.487
pull
Entries 88
Mean 1775
Std Dev 0

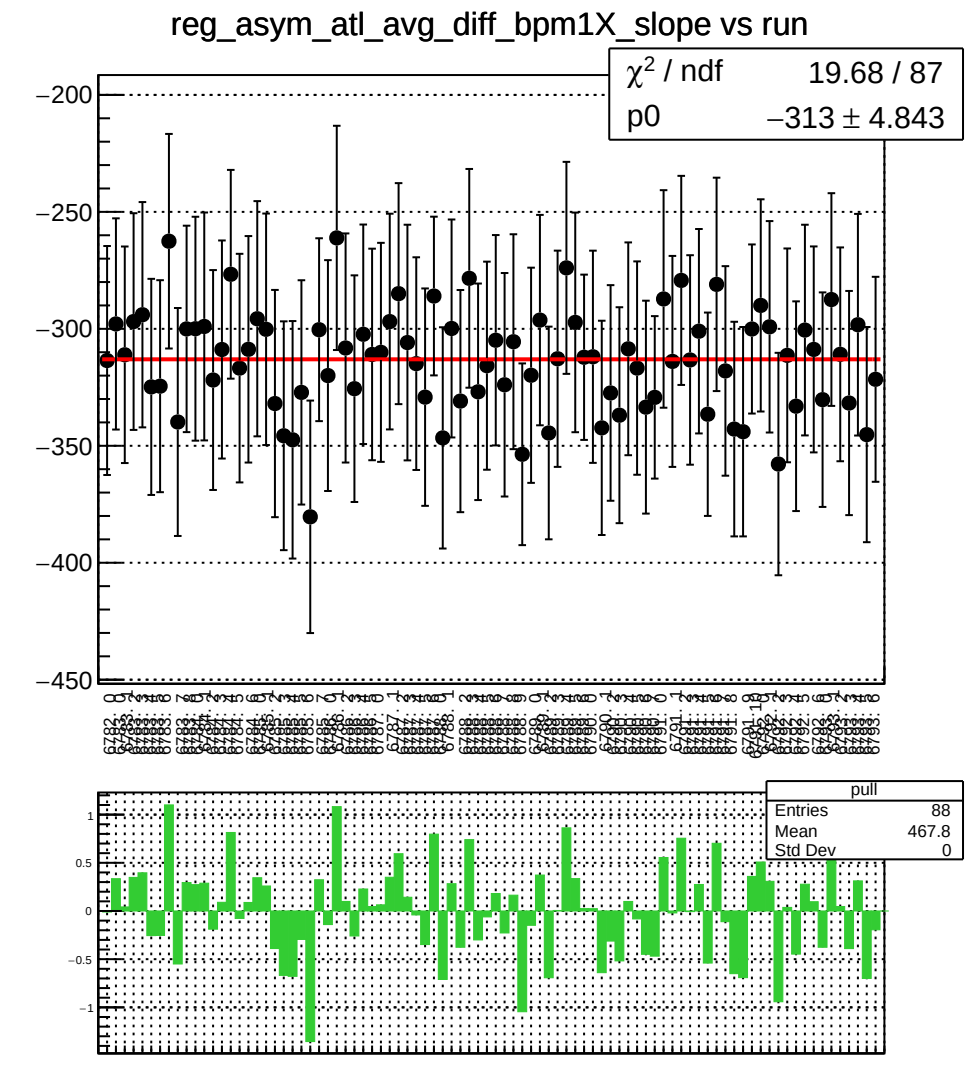

pull1D
Entries 88
Mean −0.0002639
Std Dev 0.3575

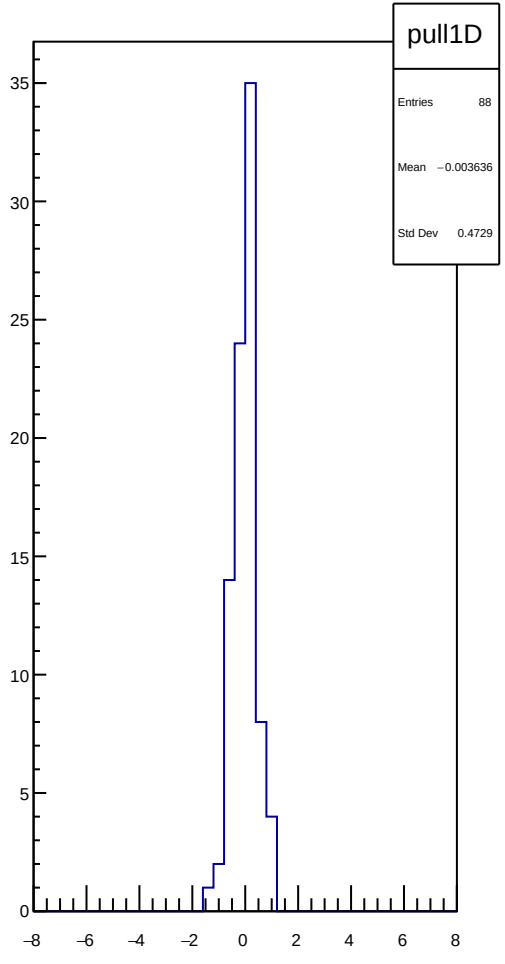

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 8.846 / 87
p0 66.68 ± 5.061
pull
Entries 88
Mean −1261
Std Dev 0

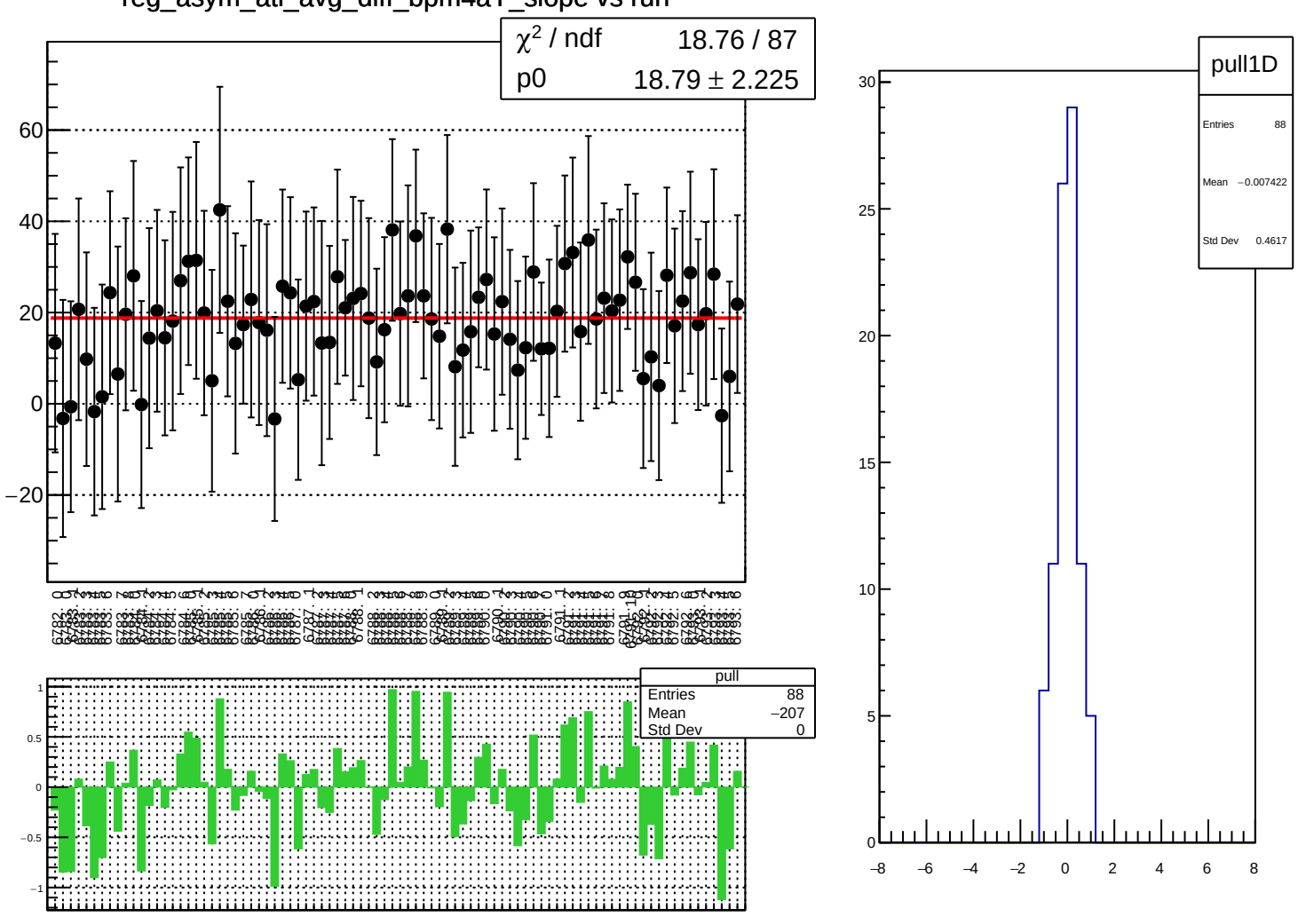

pull1D
Entries 88
Mean −0.002188
Std Dev 0.317

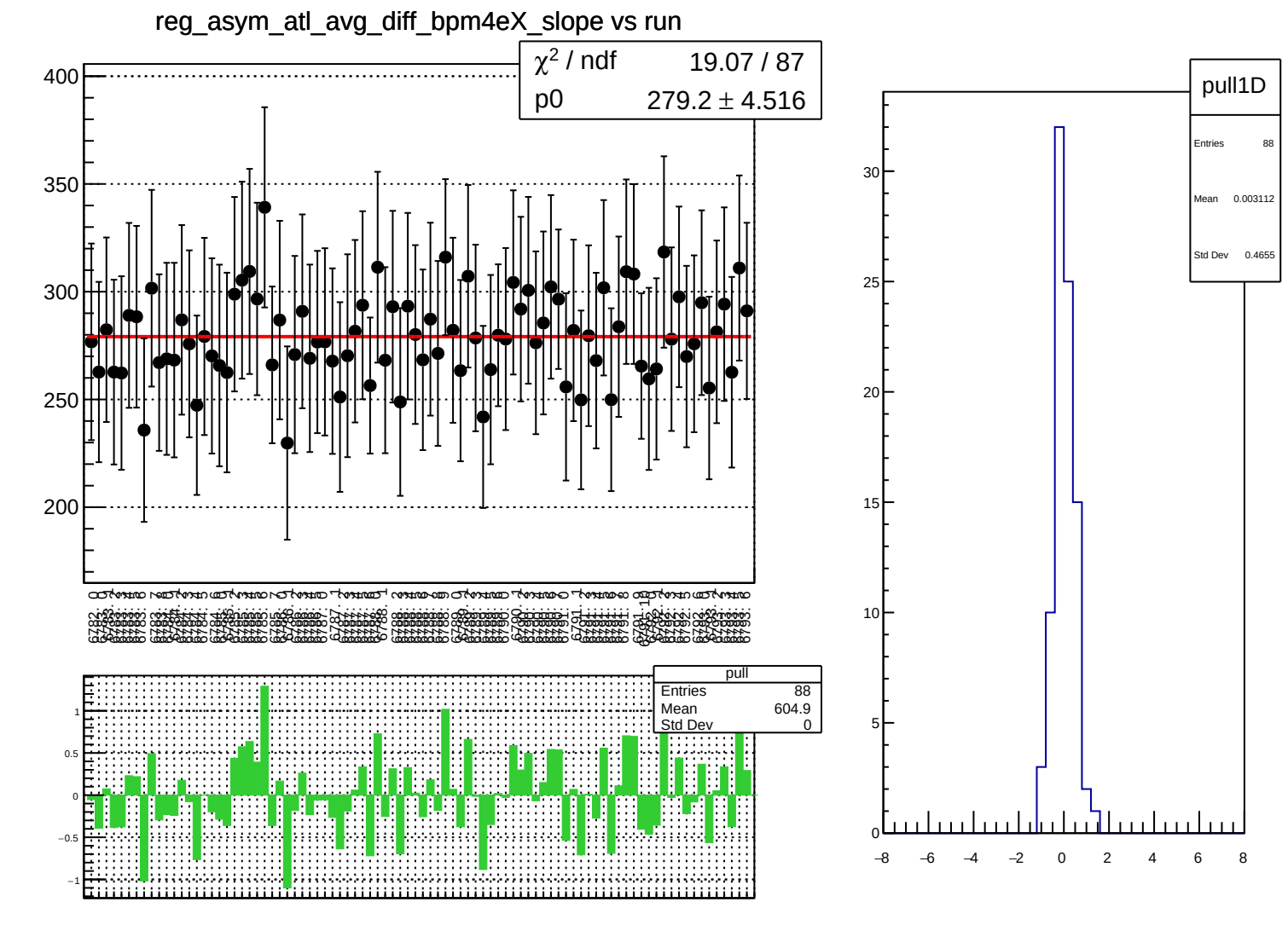

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 16.11 / 87
p0 −247.8 ± 0.3328
pull
Entries 88
Mean −675.6
Std Dev 0

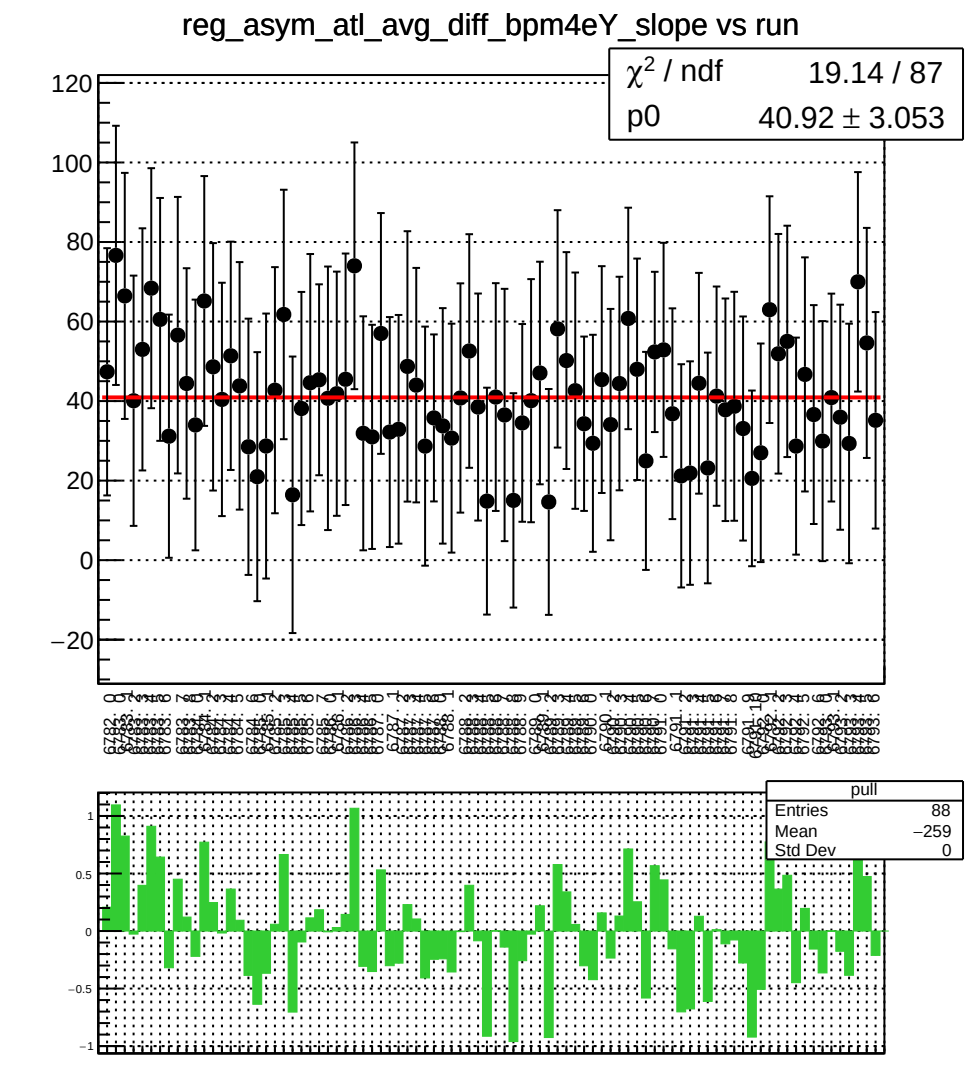

pull1D
Entries 88
Mean −0.001029
Std Dev 0.4278

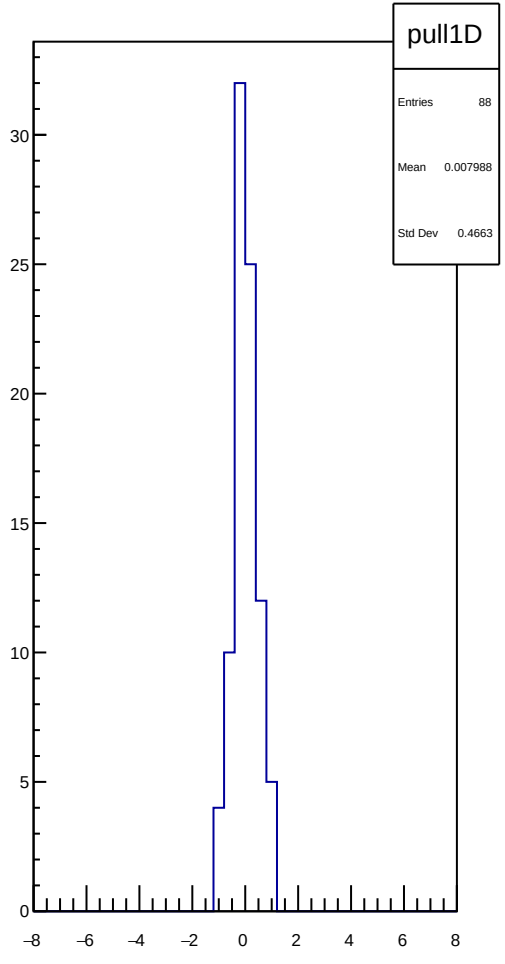

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 19.68 / 87
p0 −313 ± 4.843
−200
−250
−300
−350
−400
−450
pull
Entries 88
Mean 467.8
Std Dev 0
1
0.5
0
−0.5
−1

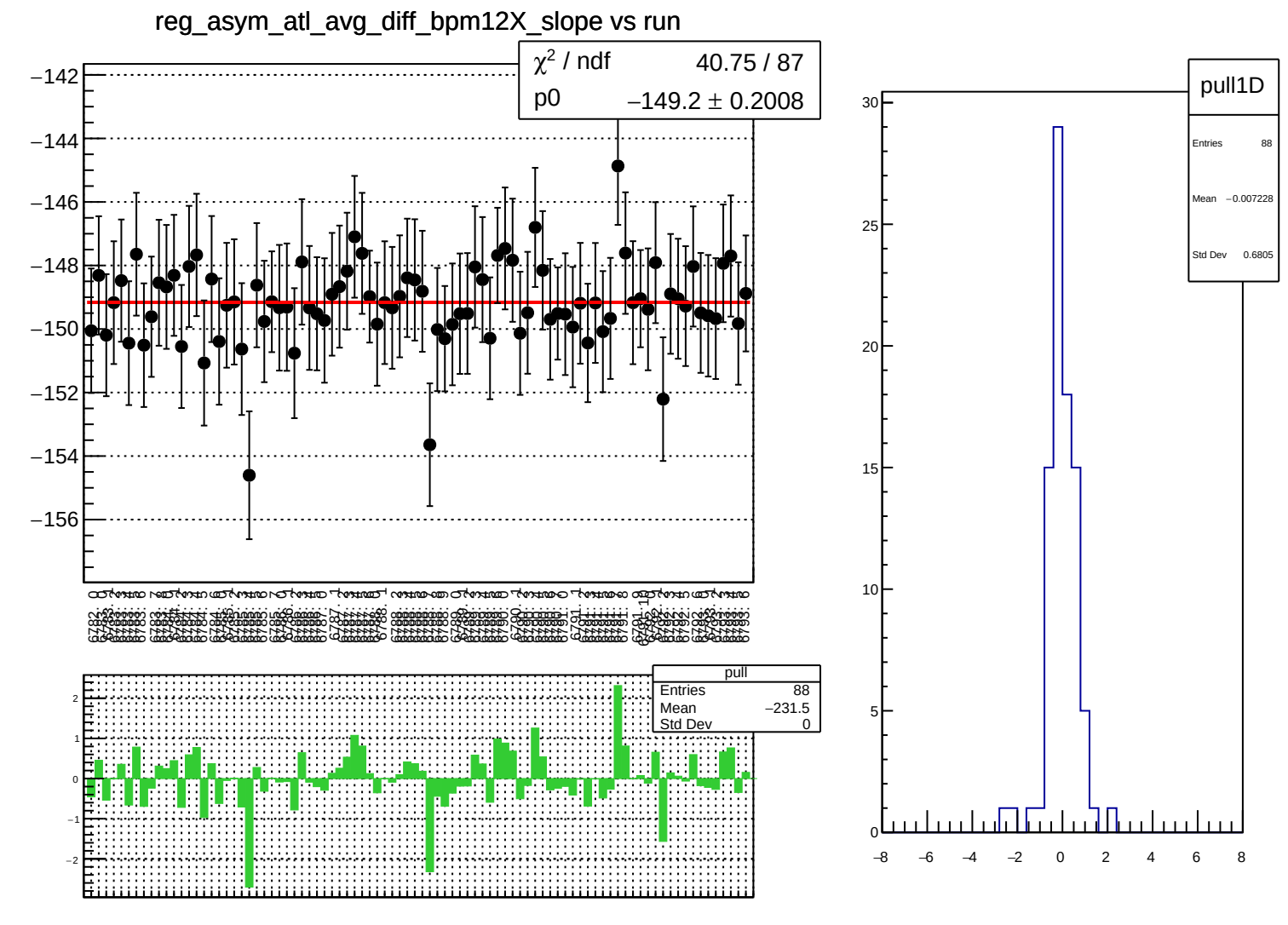

pull1D
Entries 88
Mean −0.003636
Std Dev 0.4729
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

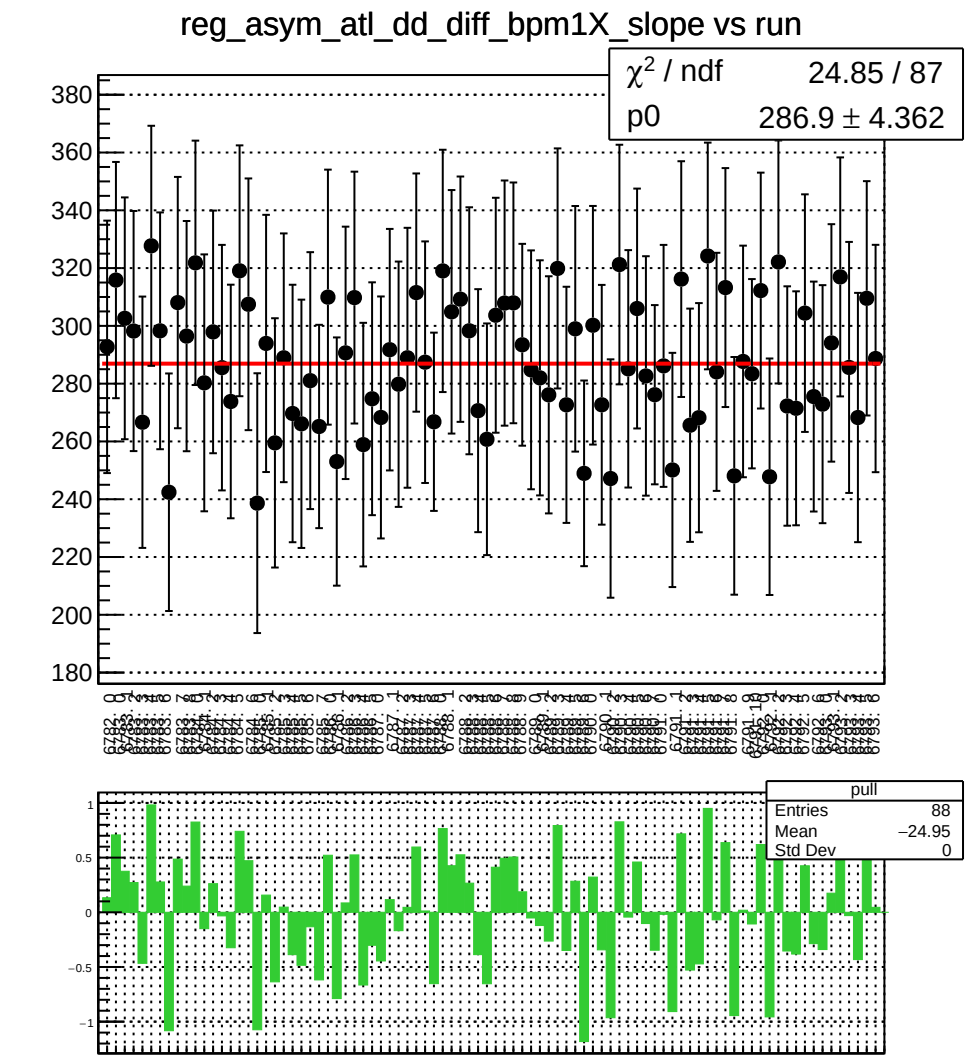

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.76 / 87
p0 18.79 ± 2.225
pull
Entries 88
Mean −207
Std Dev 0
pull1D
Entries 88
Mean −0.007422
Std Dev 0.4617

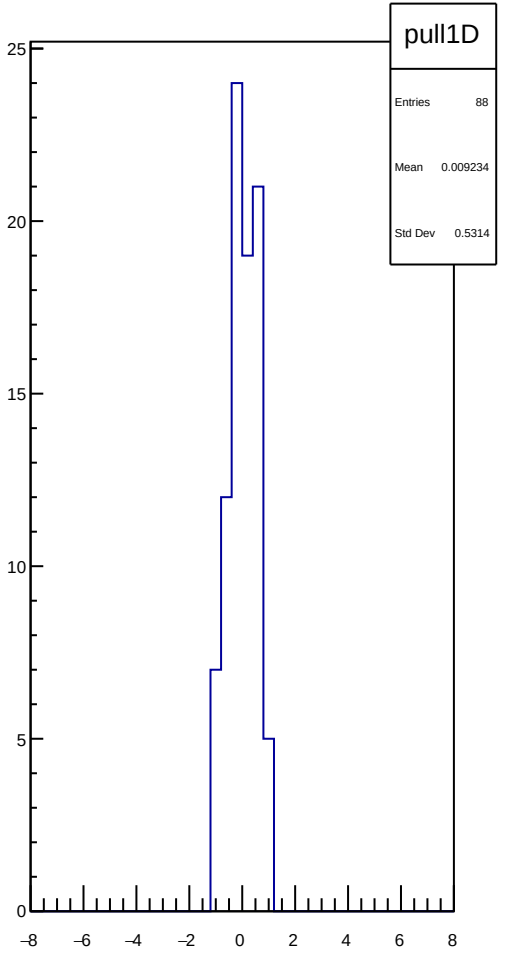

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.07 / 87
p0 279.2 ± 4.516
400
350
300
250
200
pull
Entries 88
Mean 604.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.003112
Std Dev 0.4655
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

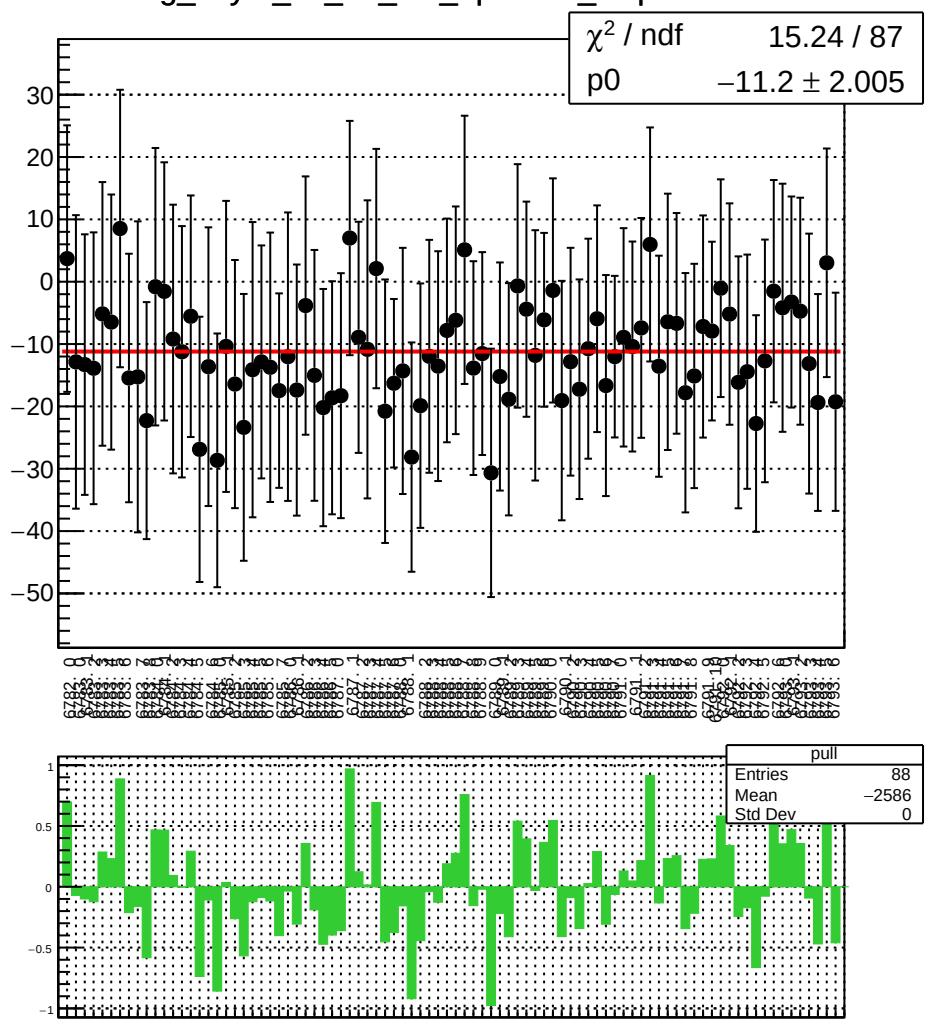

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.14 / 87
p0 40.92 ± 3.053
pull
Entries 88
Mean −259
Std Dev 0

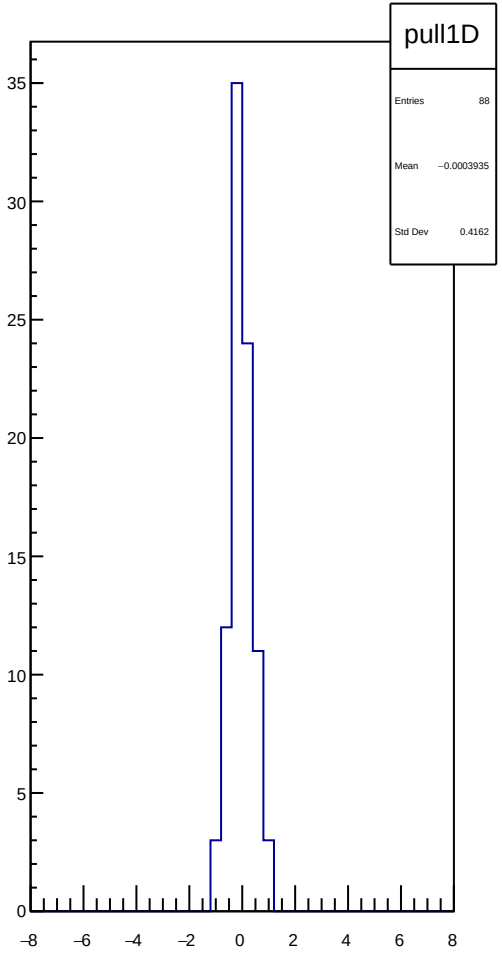

pull1D
Entries 88
Mean 0.007988
Std Dev 0.4663

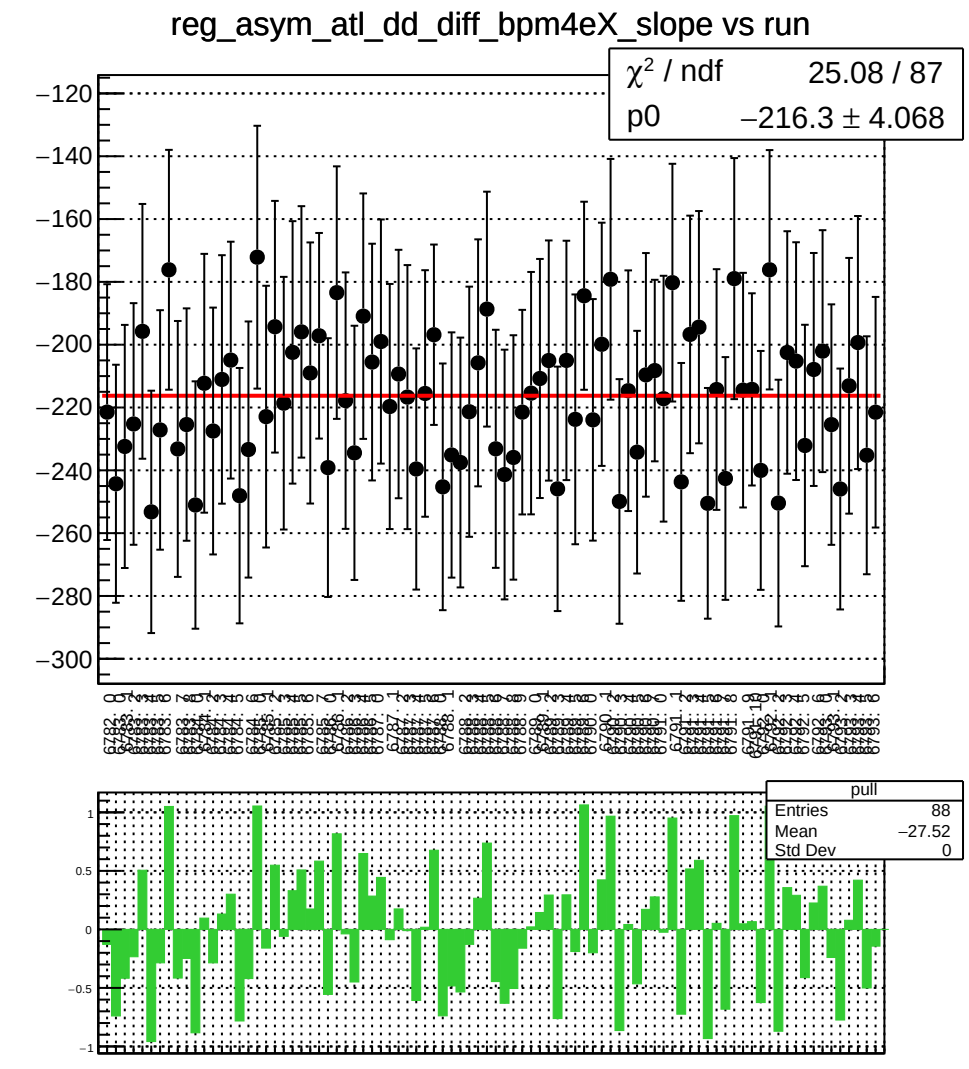

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 40.75 / 87
p0 −149.2 ± 0.2008
−142
−144
−146
−148
−150
−152
−154
−156
pull
Entries 88
Mean −231.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007228
Std Dev 0.6805
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

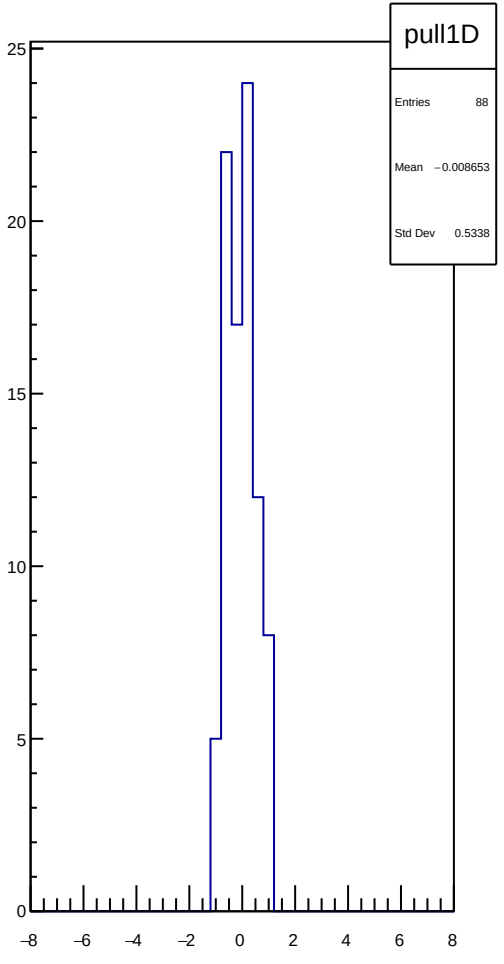

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 24.85 / 87
p0 286.9 ± 4.362
pull
Entries 88
Mean −24.95
Std Dev 0

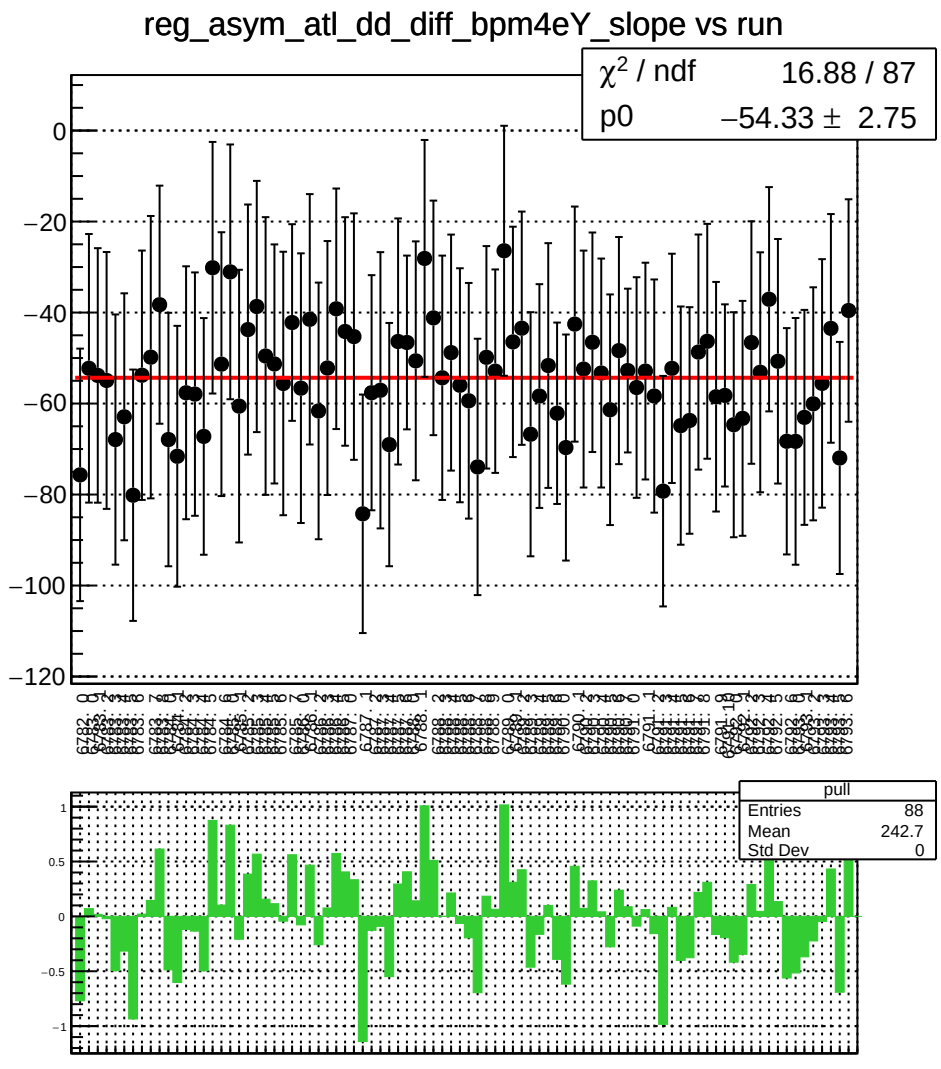

pull1D
Entries 88
Mean 0.009234
Std Dev 0.5314

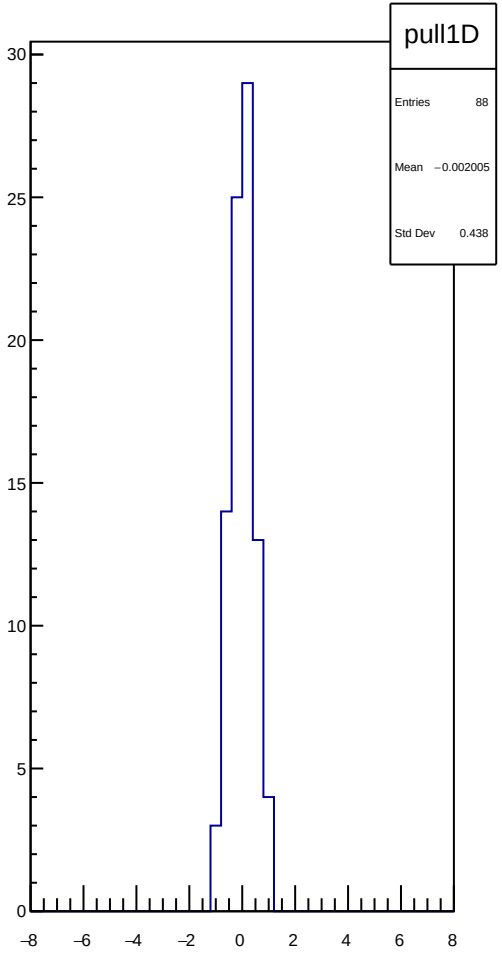

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.24 / 87
p0 −11.2 ± 2.005
pull
Entries 88
Mean −2586
Std Dev 0

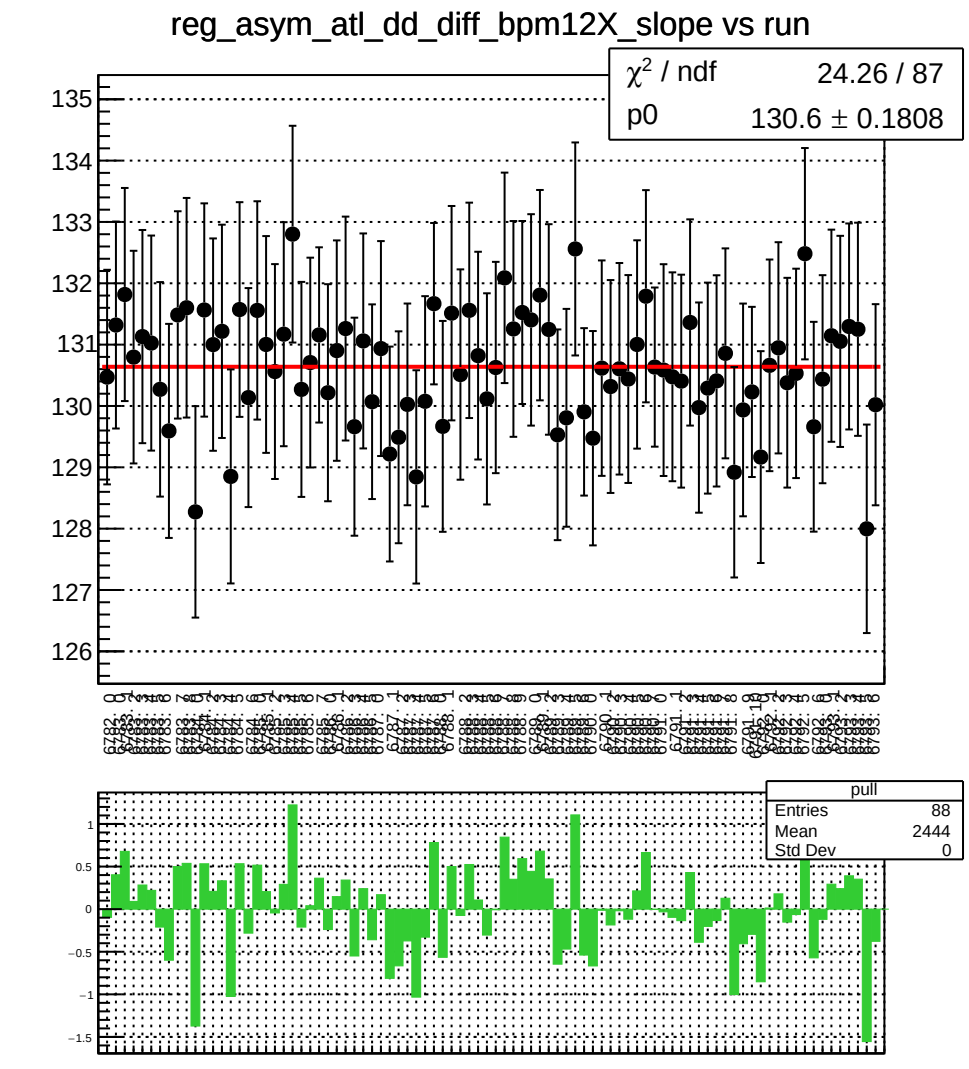

pull1D
Entries 88
Mean −0.0003935
Std Dev 0.4162

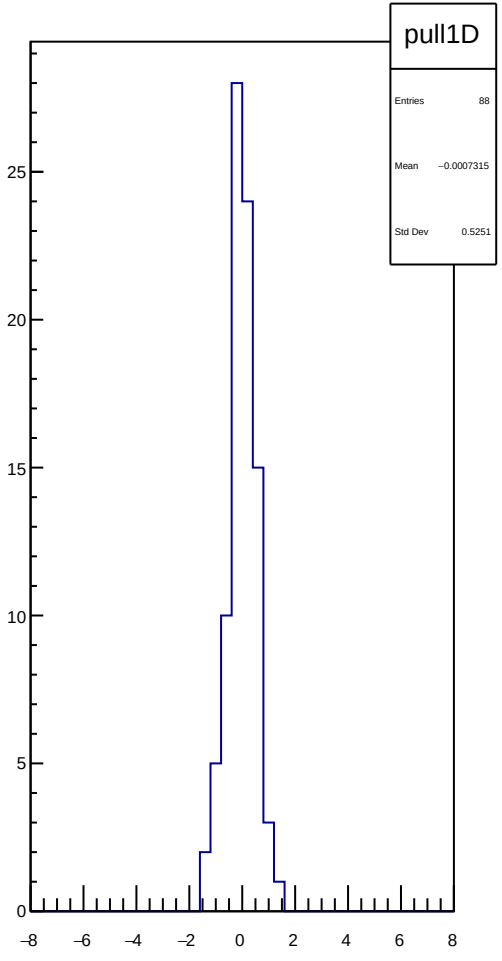

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.08 / 87
p0 −216.3 ± 4.068
pull
Entries 88
Mean −27.52
Std Dev 0

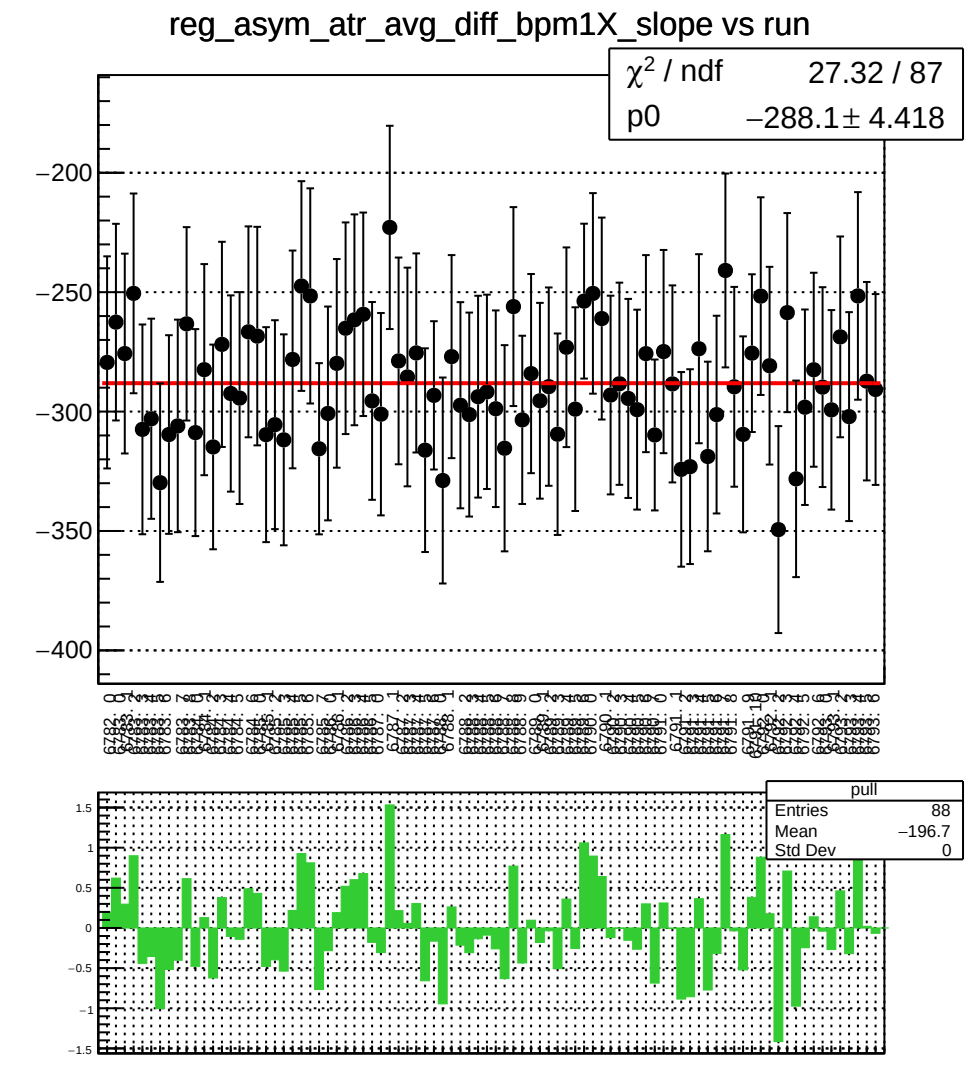

pull1D
Entries 88
Mean −0.008653
Std Dev 0.5338

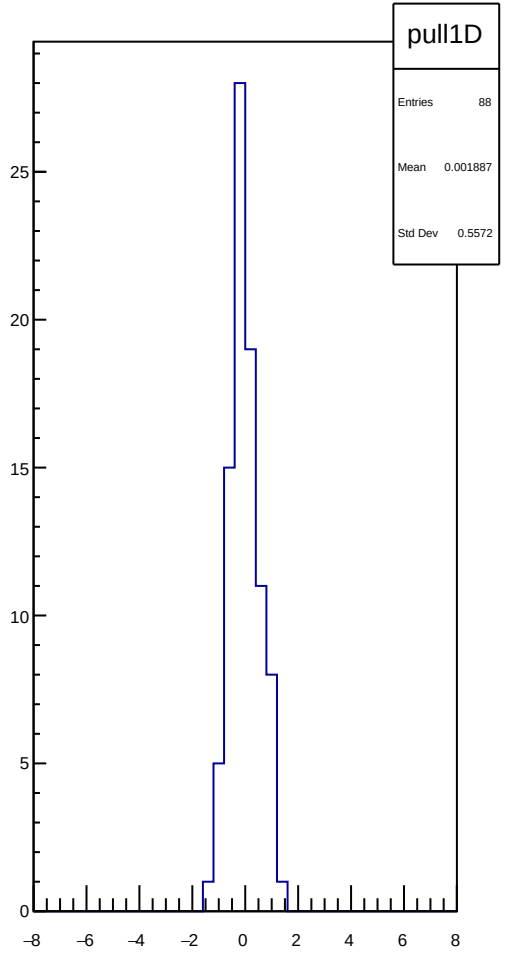

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.88 / 87
p0 −54.33 ± 2.75
pull
Entries 88
Mean 242.7
Std Dev 0

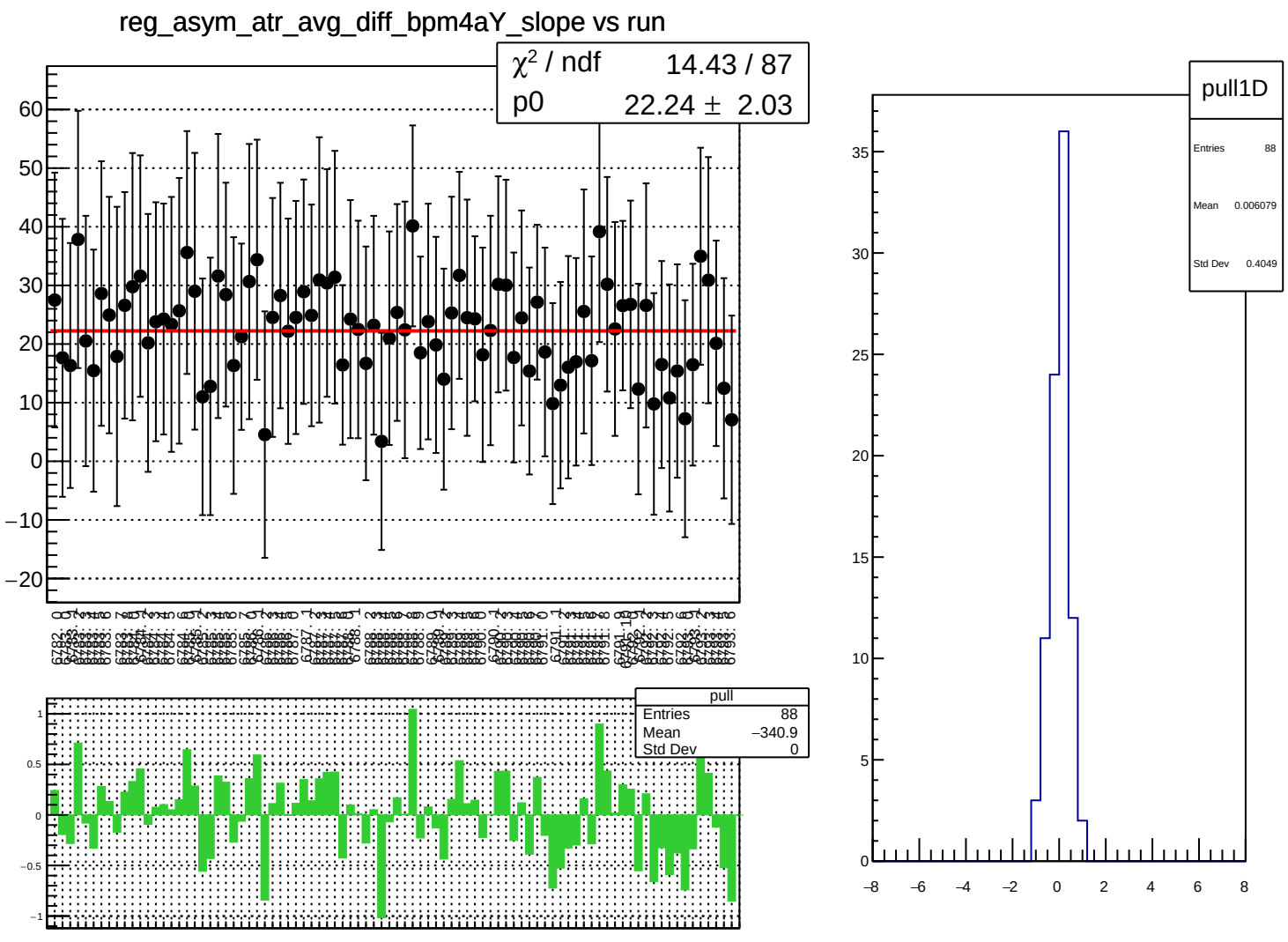

pull1D
Entries 88
Mean −0.002005
Std Dev 0.438

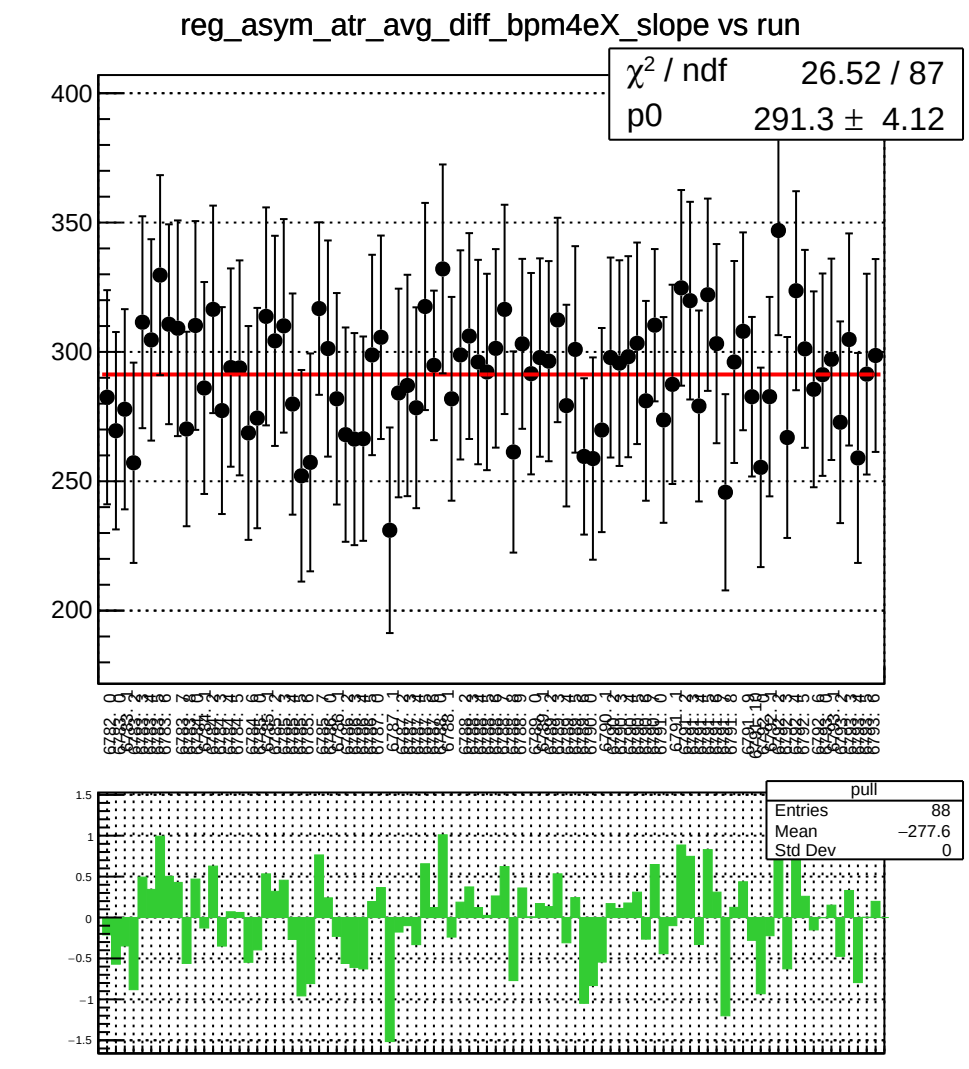

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 24.26 / 87
p0 130.6 ± 0.1808
pull
Entries 88
Mean 2444
Std Dev 0

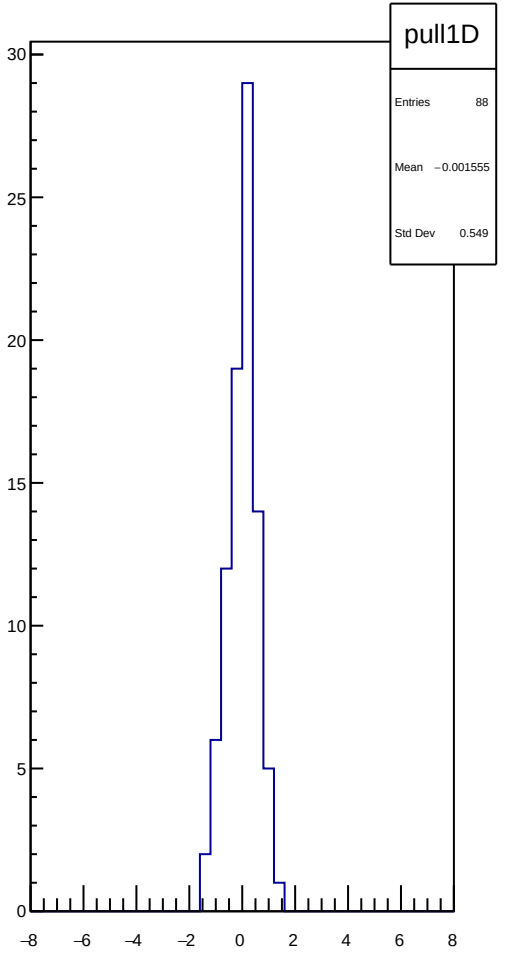

pull1D
Entries 88
Mean −0.0007315
Std Dev 0.5251

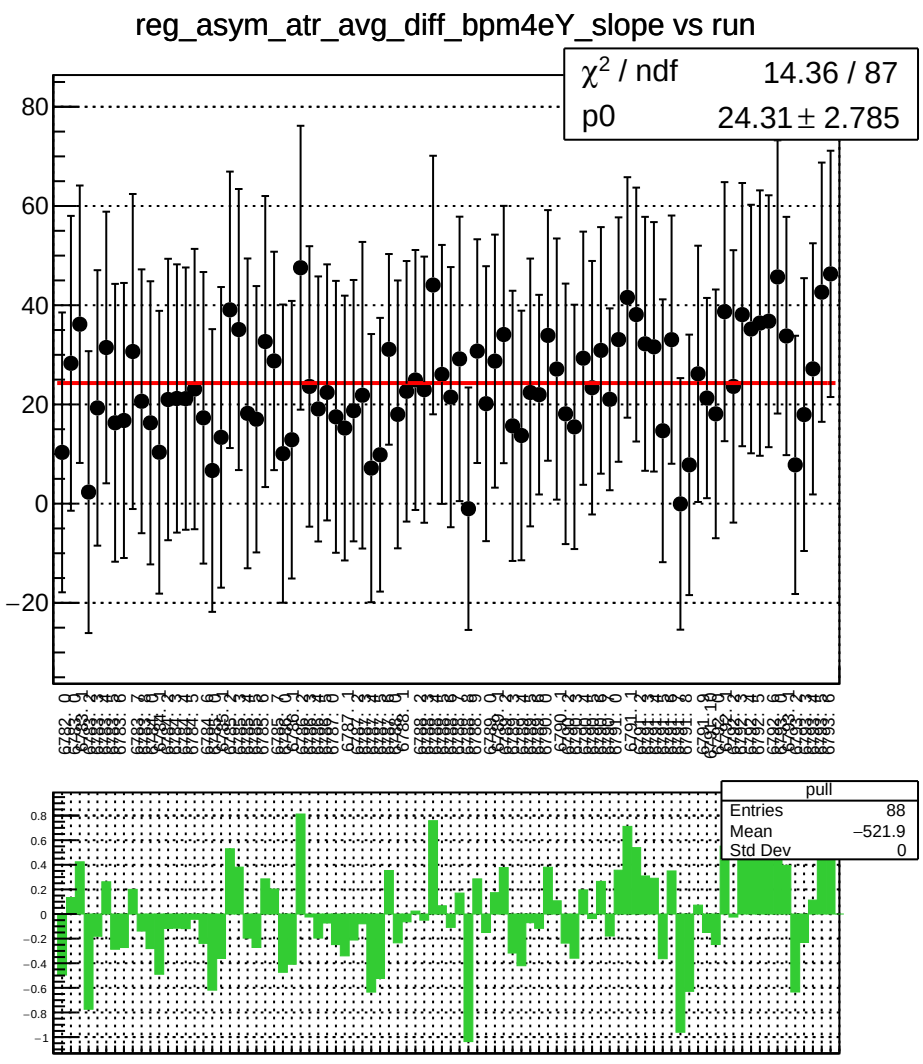

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 27.32 / 87
p0 −288.1± 4.418
−200
−250
−300
−350
−400
pull
Entries 88
Mean −196.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

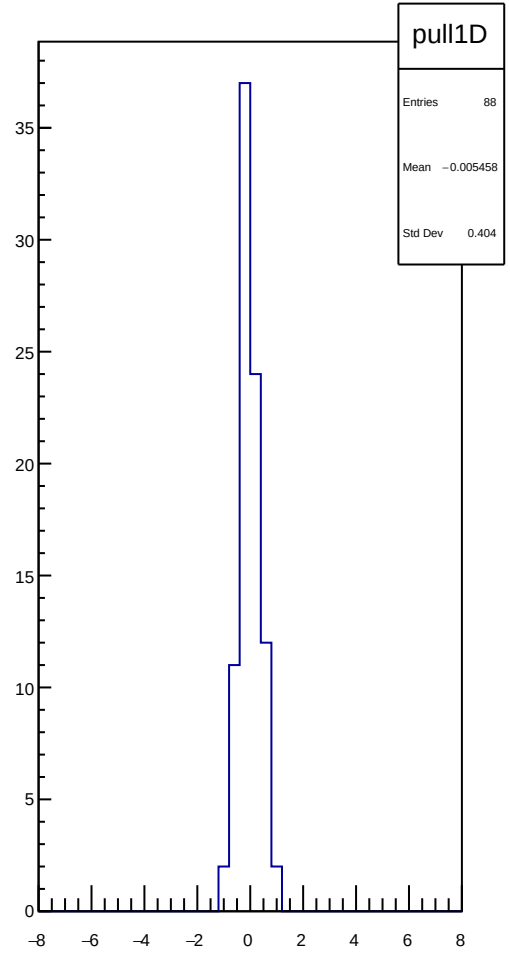

pull1D
Entries 88
Mean 0.001887
Std Dev 0.5572
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

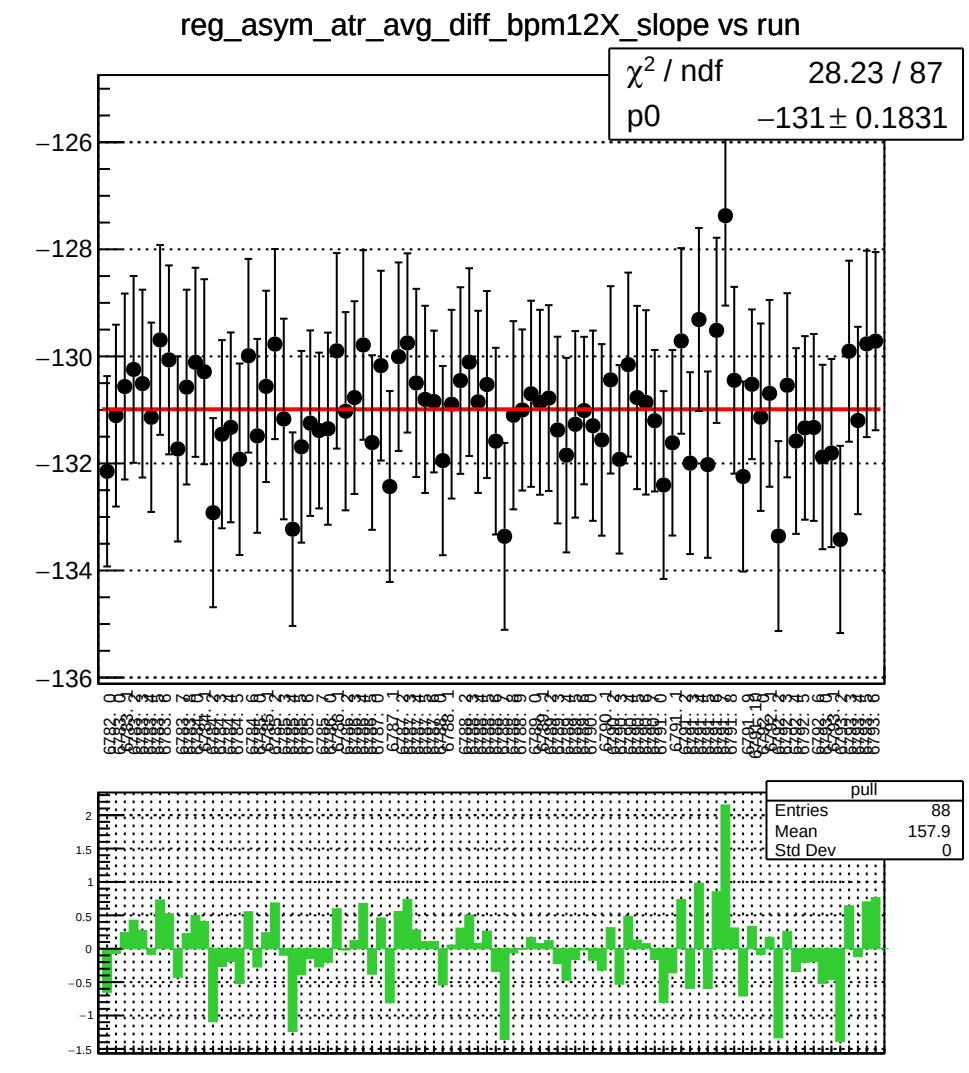

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.43 / 87
p0 22.24 ± 2.03
pull
Entries 88
Mean −340.9
Std Dev 0
pull1D
Entries 88
Mean 0.006079
Std Dev 0.4049

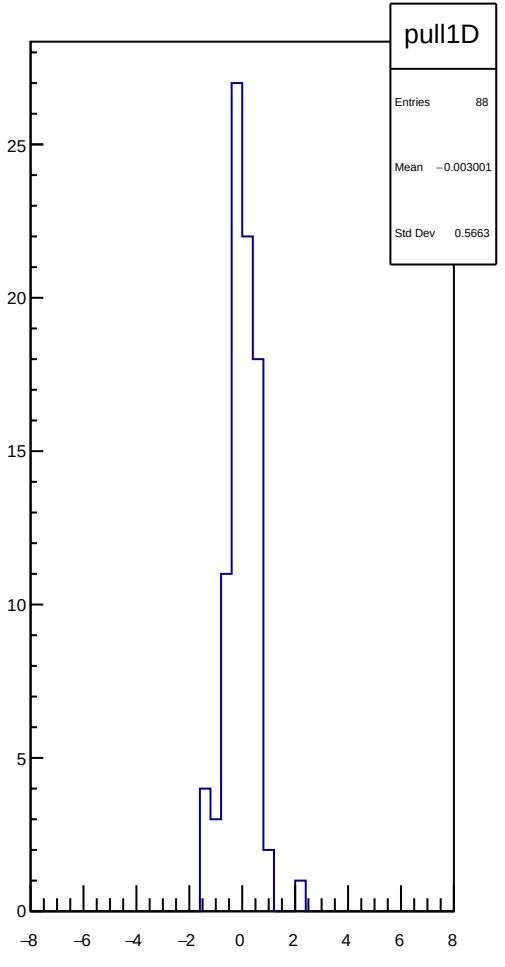

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.52 / 87
p0 291.3 ± 4.12
400
350
300
250
200
pull
Entries 88
Mean −277.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

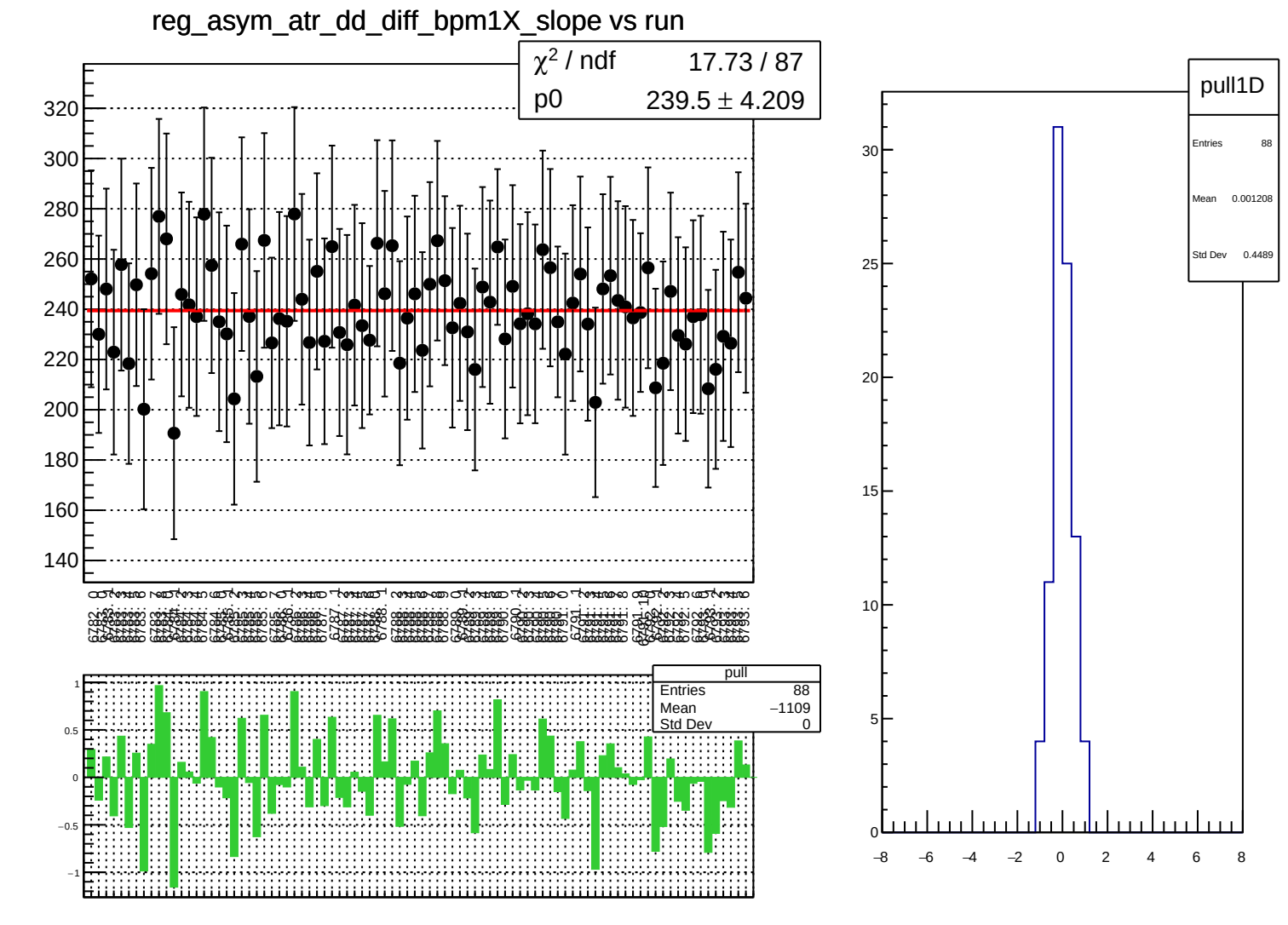

pull1D
Entries 88
Mean −0.001555
Std Dev 0.549
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

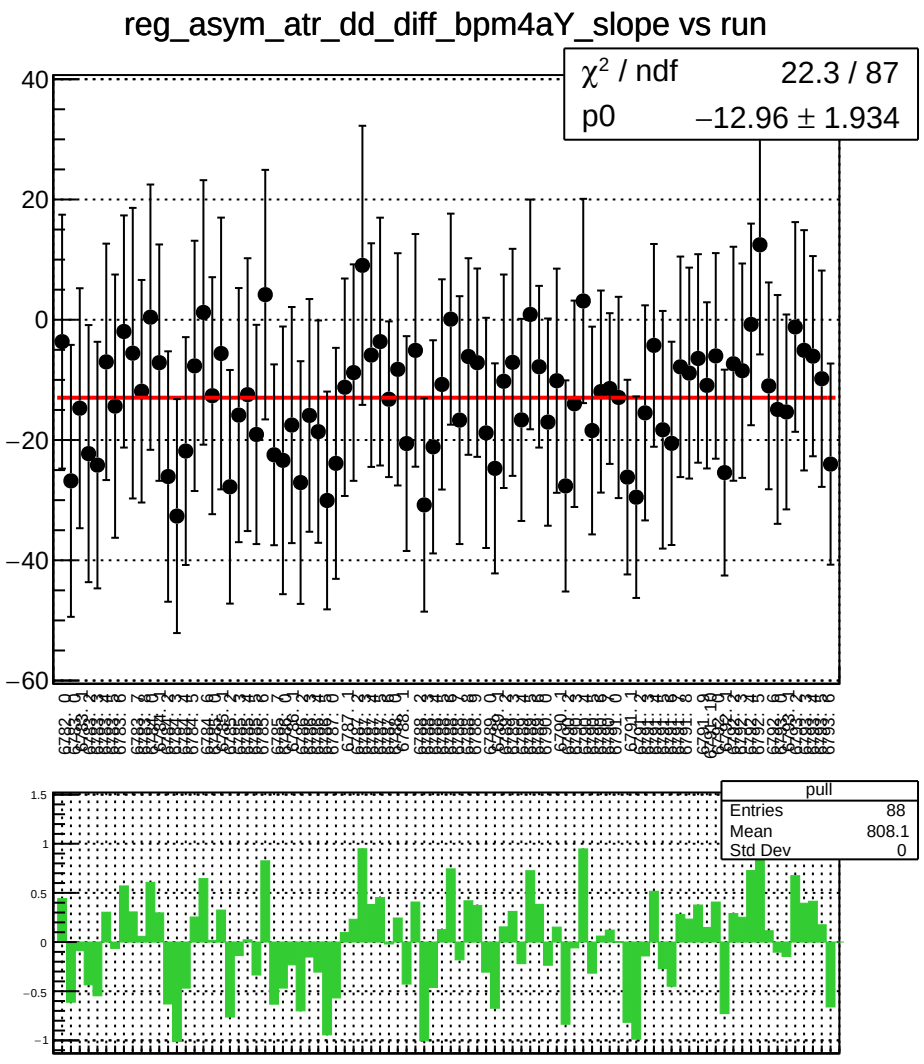

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.36 / 87
p0 24.31 ± 2.785
pull
Entries 88
Mean −521.9
Std Dev 0

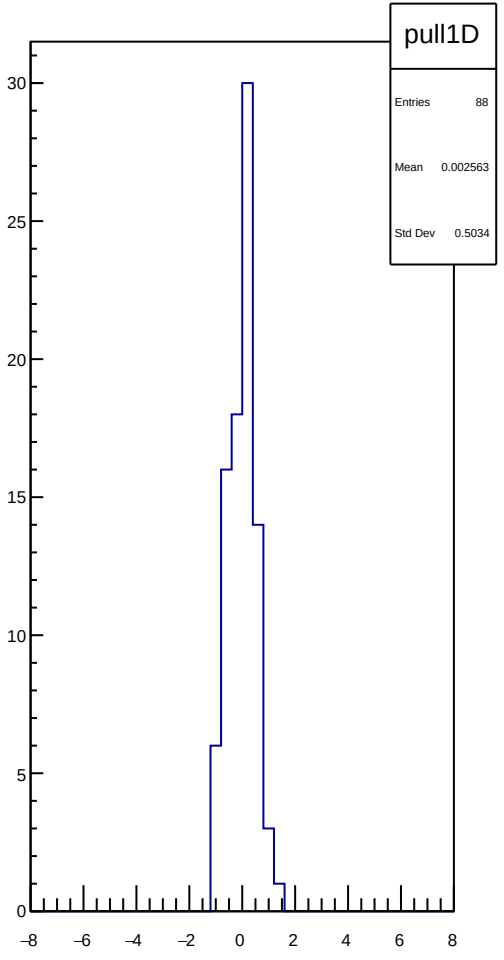

pull1D
Entries 88
Mean −0.005458
Std Dev 0.404

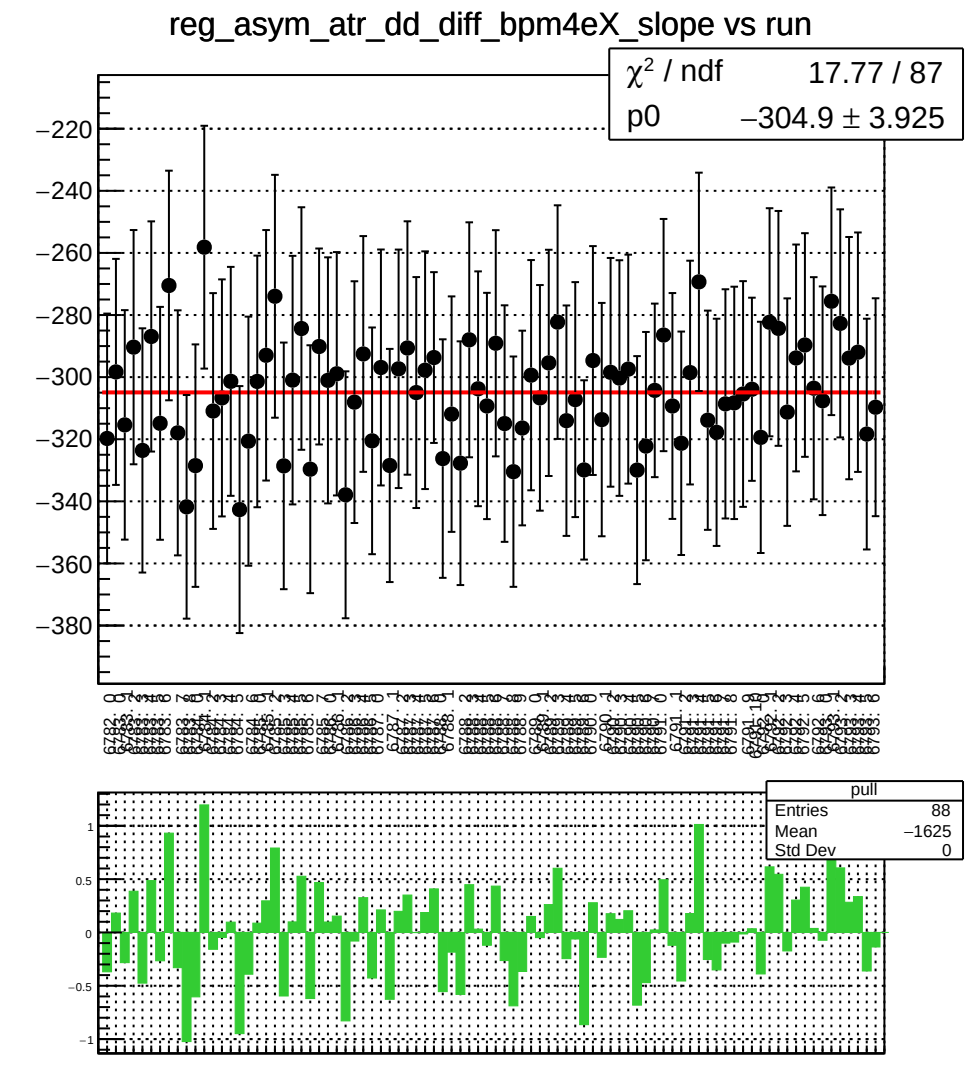

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 28.23 / 87
p0 −131 ± 0.1831
−126
−128
−130
−132
−134
−136
pull
Entries 88
Mean 157.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

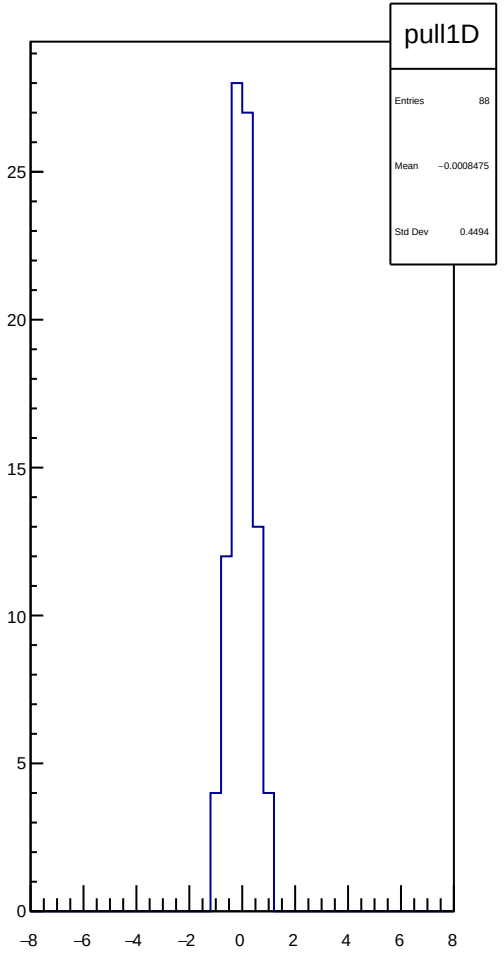

pull1D
Entries 88
Mean −0.003001
Std Dev 0.5663
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

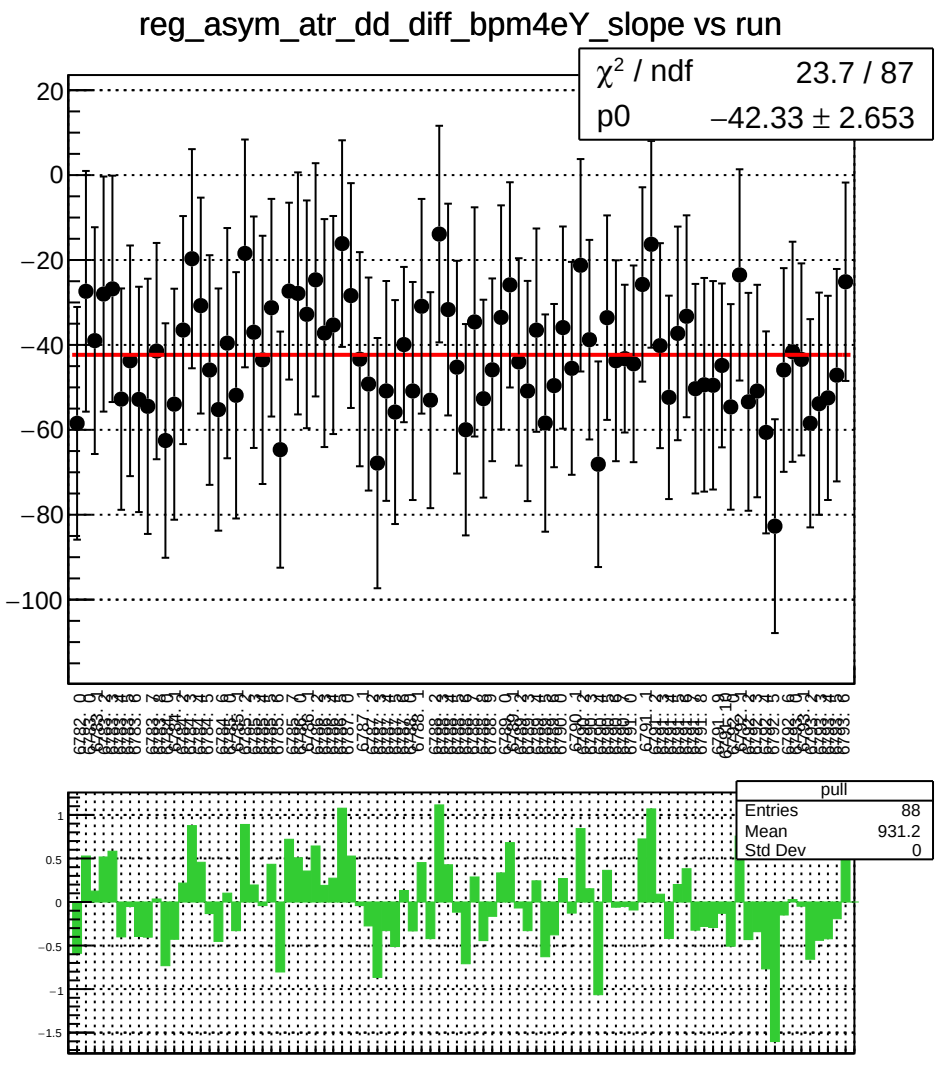

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 17.73 / 87
p0 239.5 ± 4.209
pull
Entries 88
Mean −1109
Std Dev 0
pull1D
Entries 88
Mean 0.001208
Std Dev 0.4489

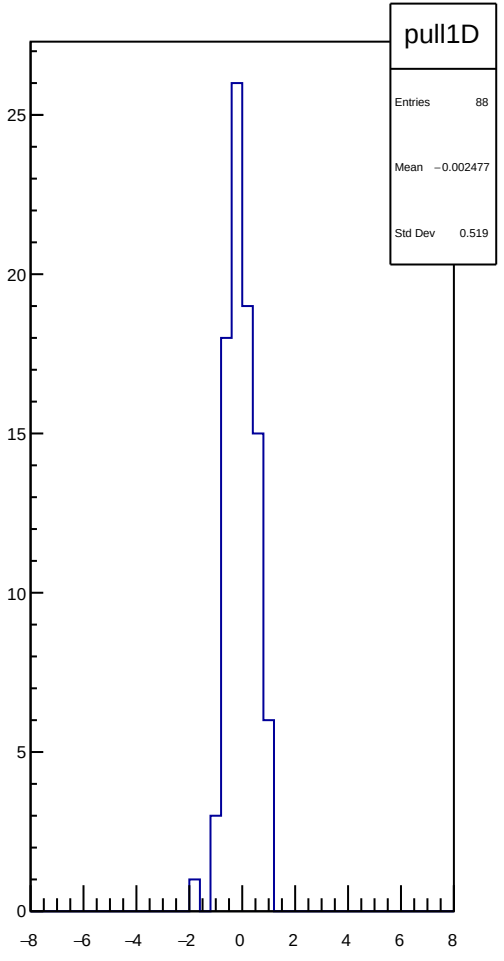

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.3 / 87
p0 −12.96 ± 1.934
pull
Entries 88
Mean 808.1
Std Dev 0

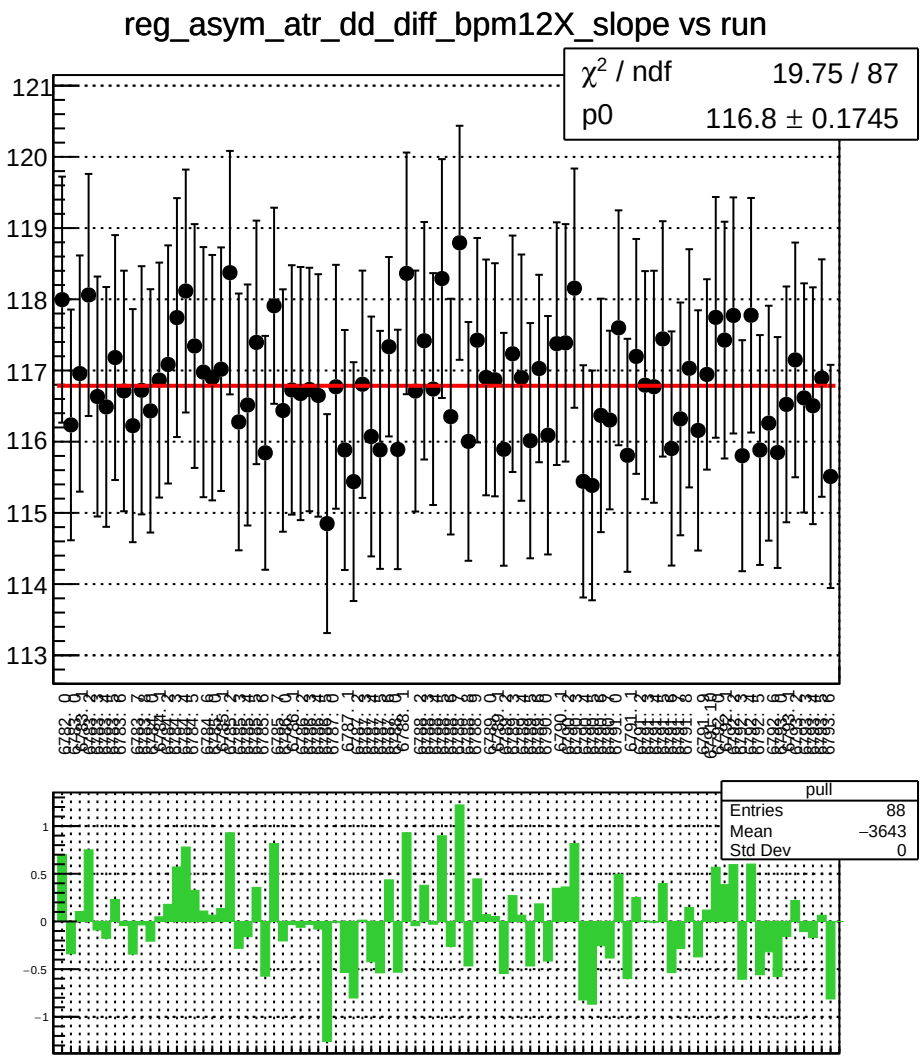

pull1D
Entries 88
Mean 0.002563
Std Dev 0.5034

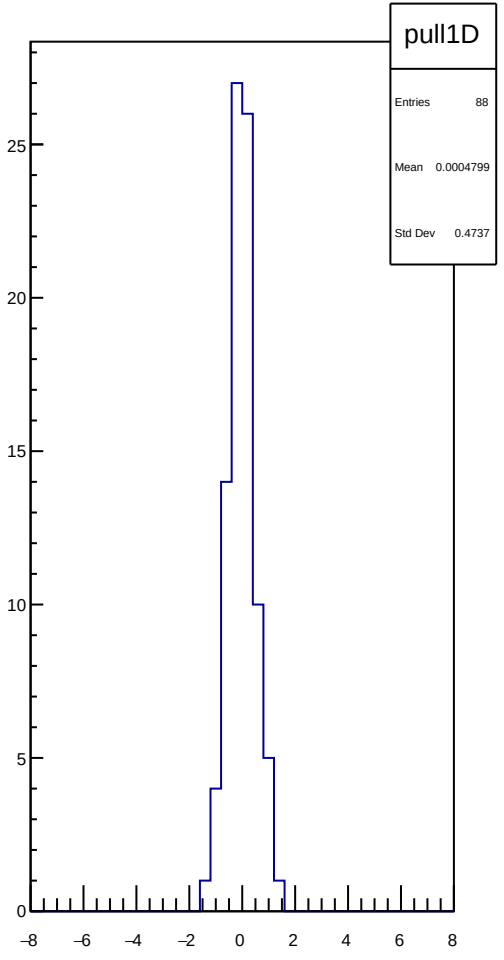

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.77 / 87
p0 −304.9 ± 3.925
pull
Entries 88
Mean −1625
Std Dev 0

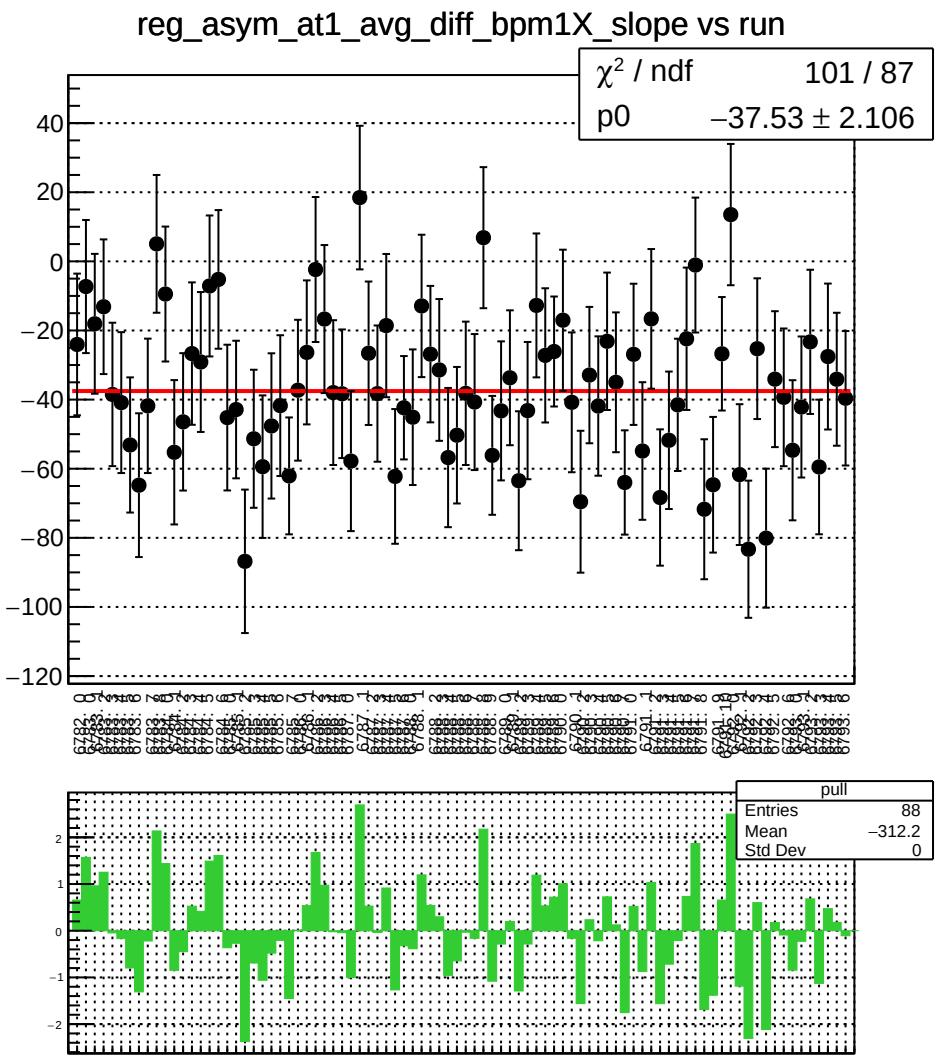

pull1D
Entries 88
Mean −0.0008475
Std Dev 0.4494

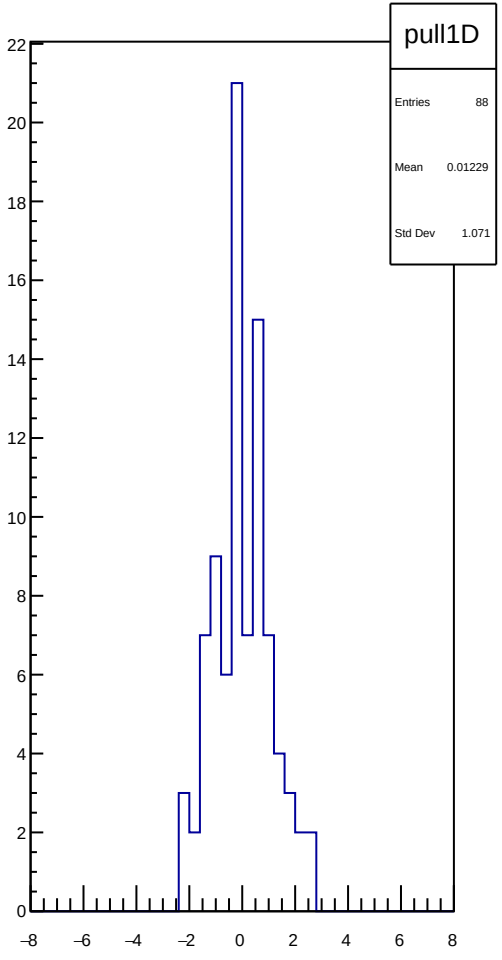

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.7 / 87
p0 −42.33 ± 2.653
pull
Entries 88
Mean 931.2
Std Dev 0

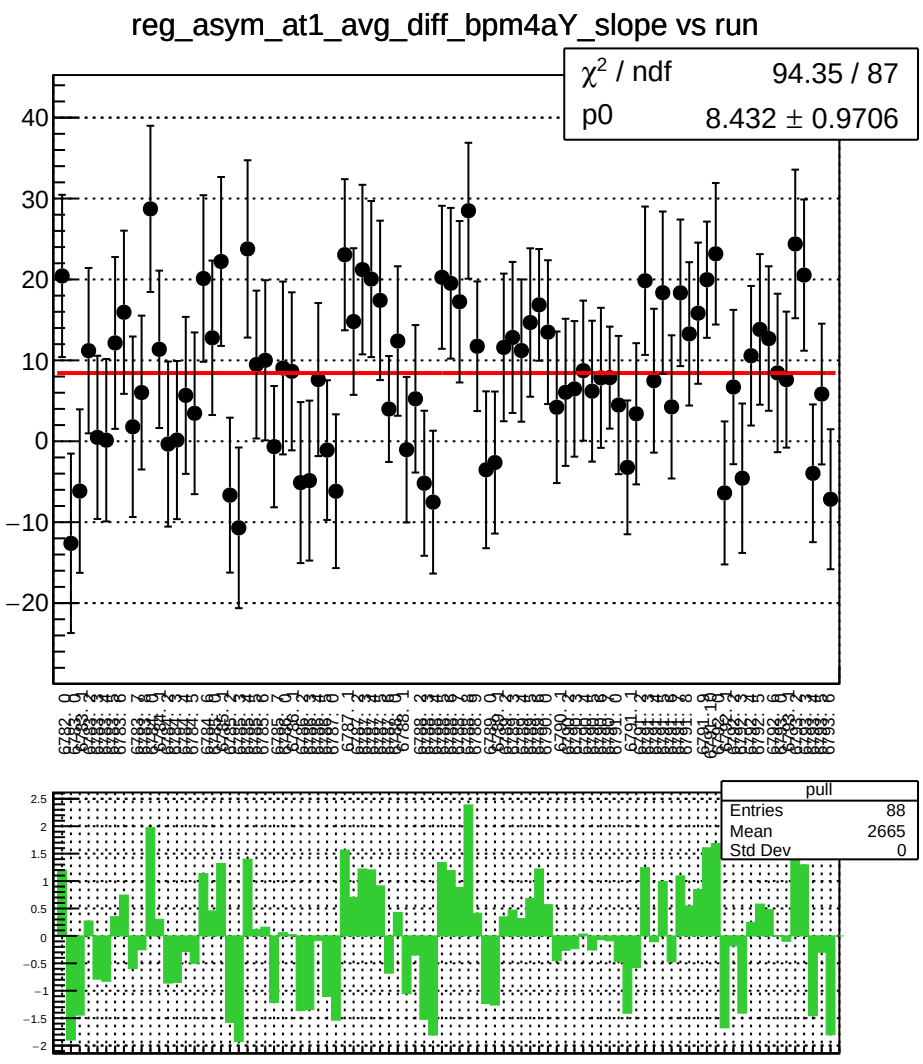

pull1D
Entries 88
Mean −0.002477
Std Dev 0.519

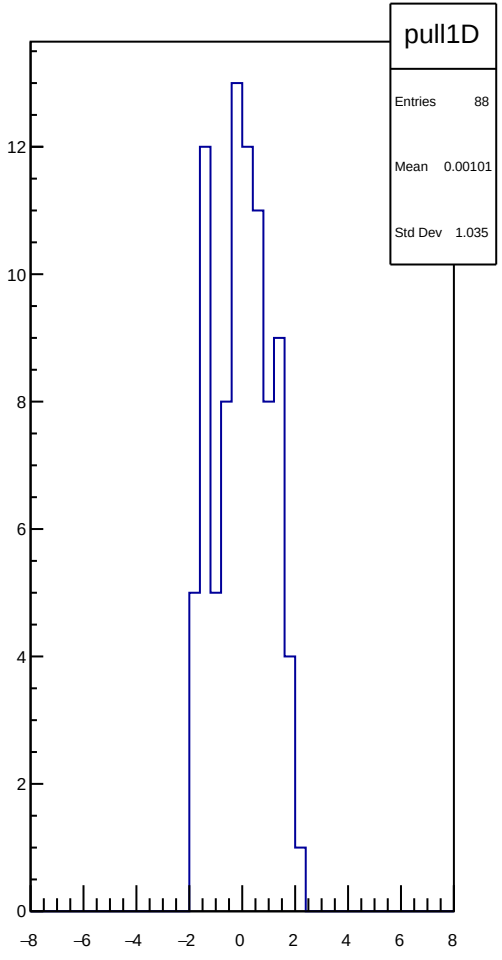

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 19.75 / 87
p0 116.8 ± 0.1745
pull
Entries 88
Mean −3643
Std Dev 0

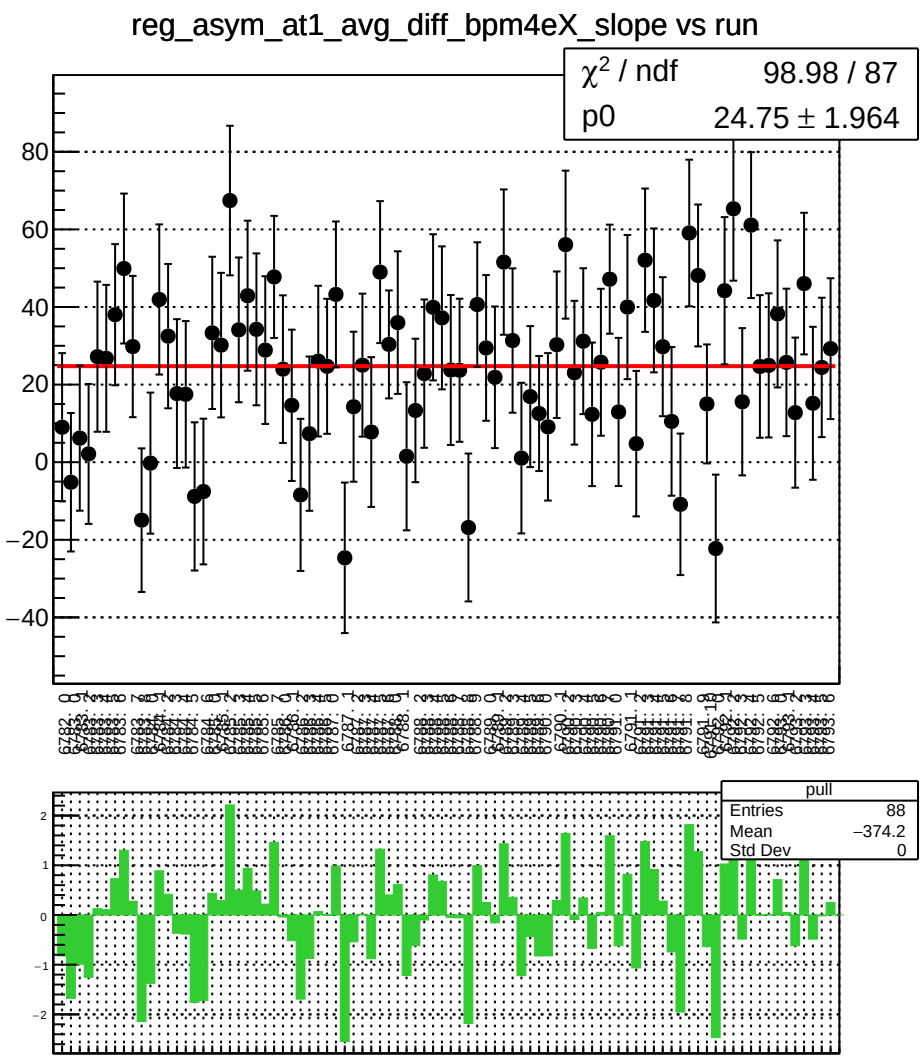

pull1D
Entries 88
Mean 0.0004799
Std Dev 0.4737

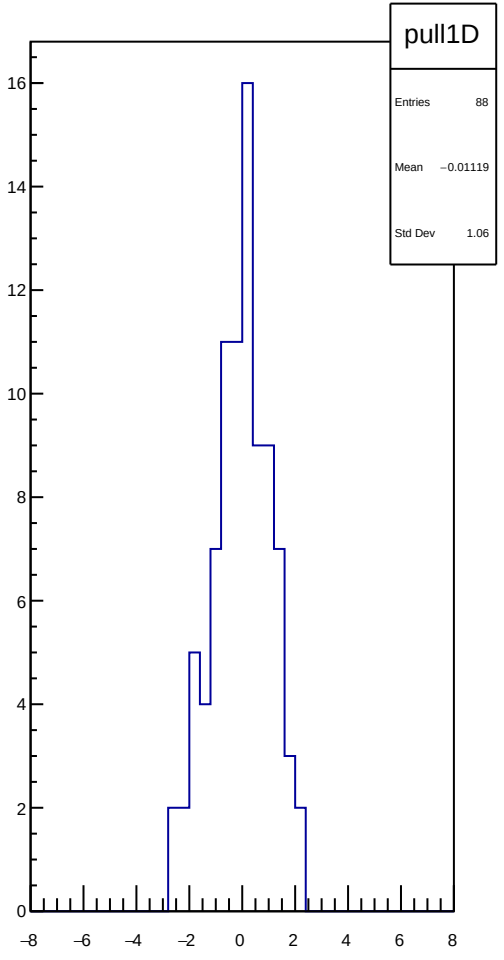

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 101 / 87
p0 −37.53 ± 2.106
pull
Entries 88
Mean −312.2
Std Dev 0

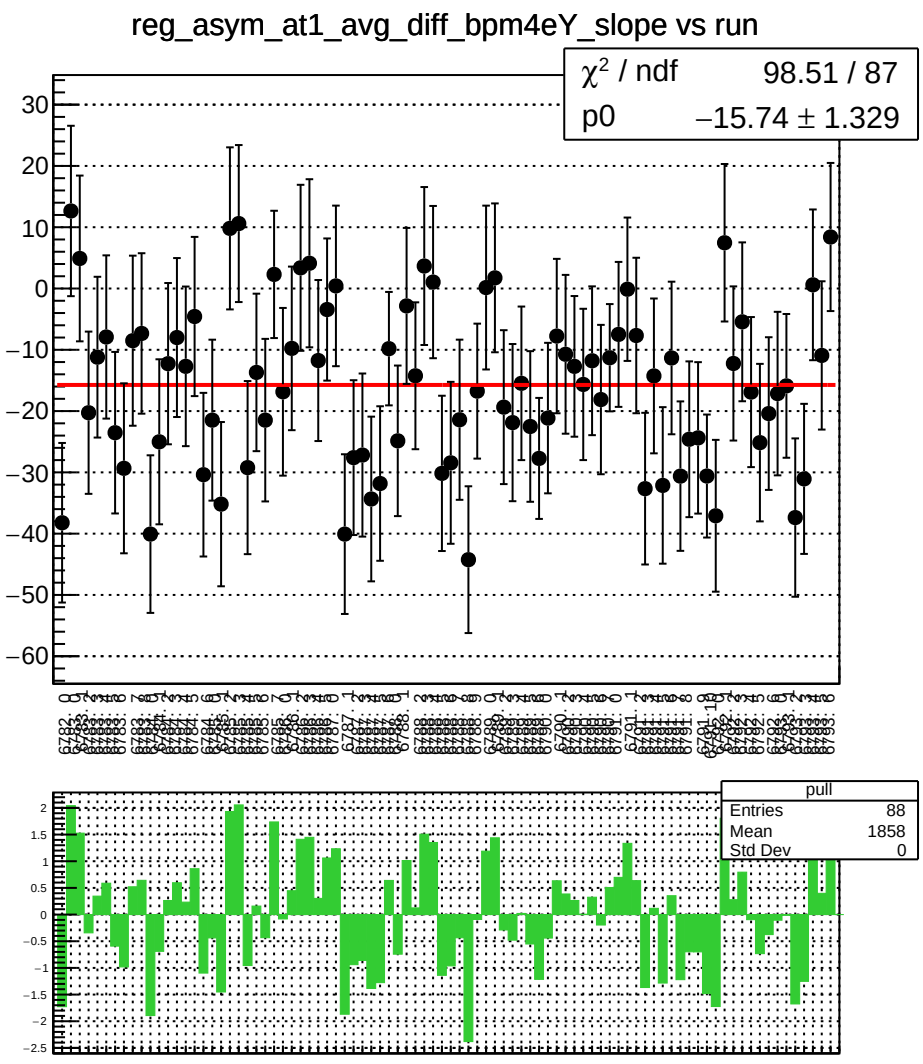

pull1D
Entries 88
Mean 0.01229
Std Dev 1.071

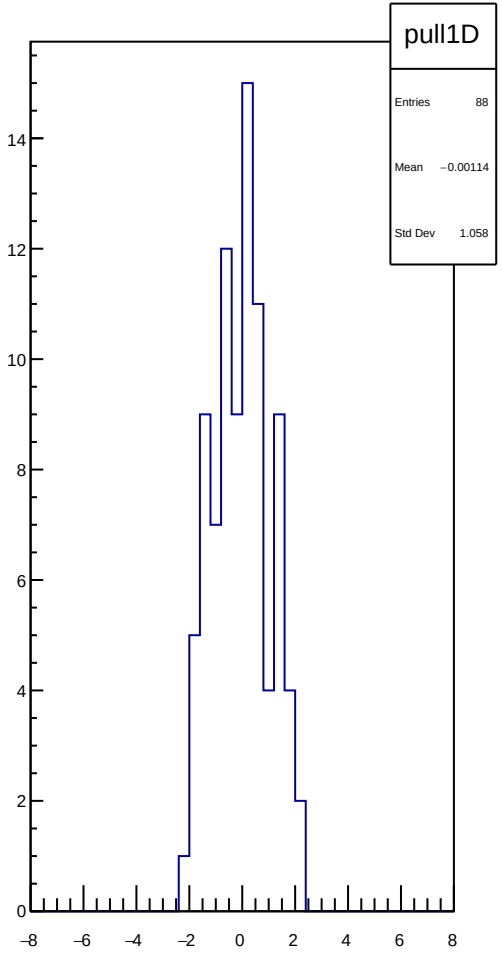

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 94.35 / 87
p0 8.432 ± 0.9706
pull
Entries 88
Mean 2665
Std Dev 0

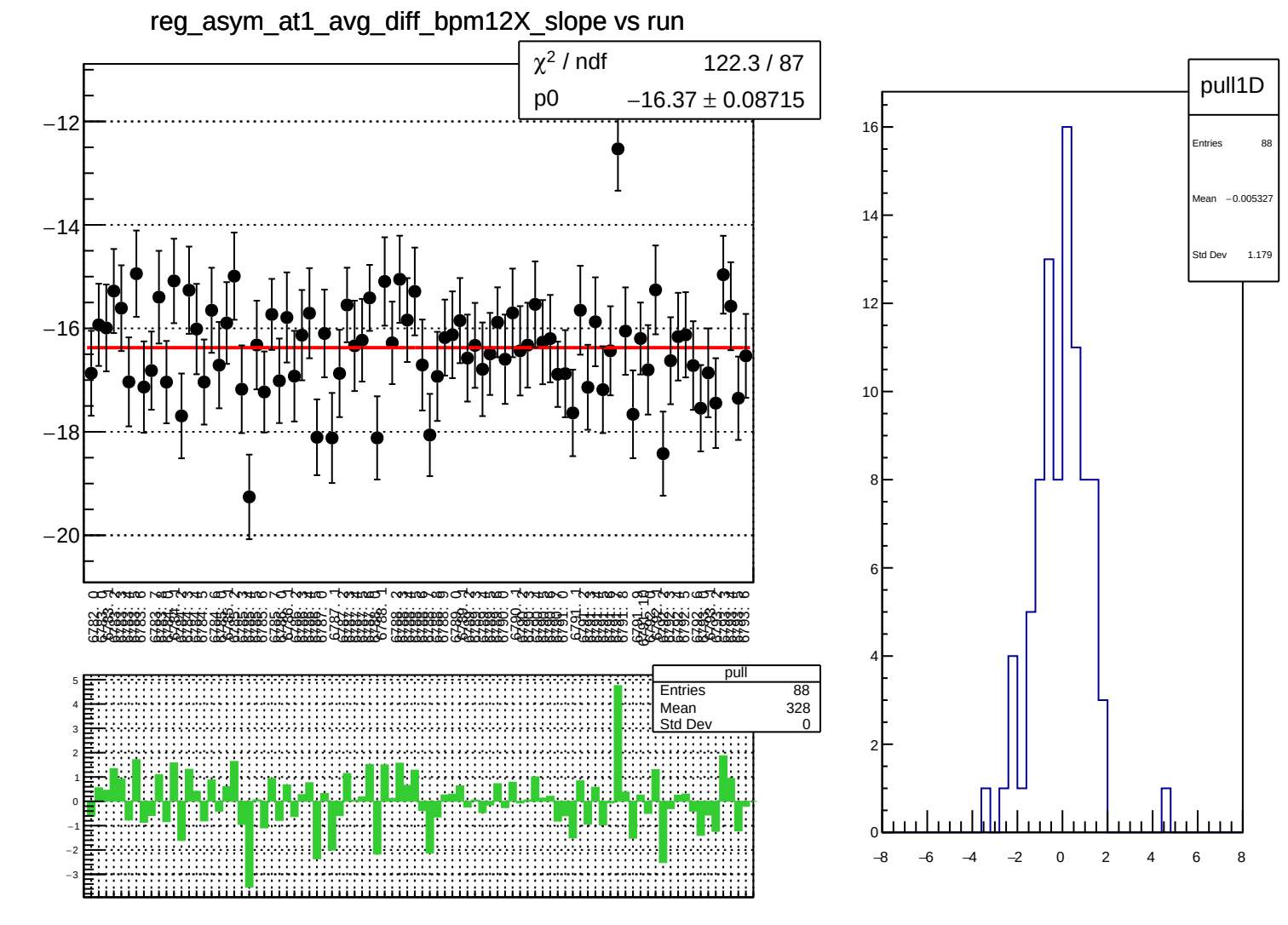

pull1D
Entries 88
Mean 0.00101
Std Dev 1.035

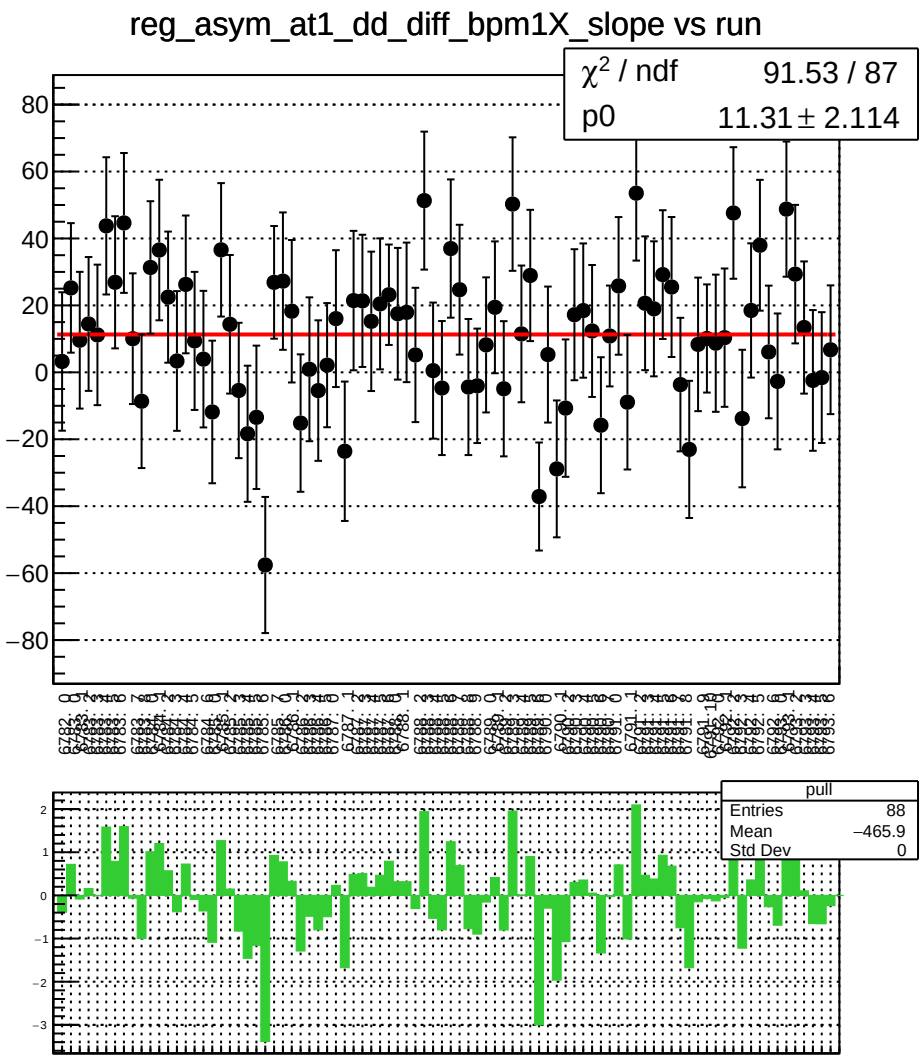

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 98.98 / 87
p0 24.75 ± 1.964
pull
Entries 88
Mean −374.2
Std Dev 0

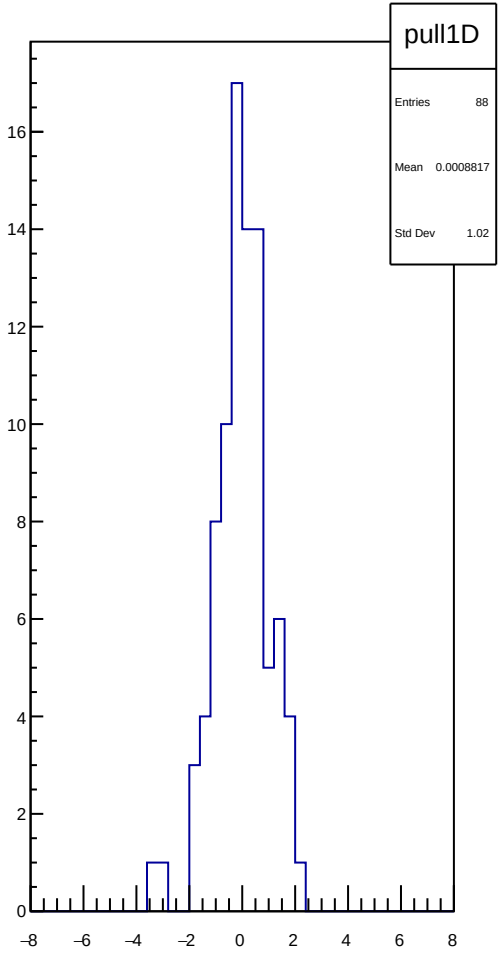

pull1D
Entries 88
Mean −0.01119
Std Dev 1.06

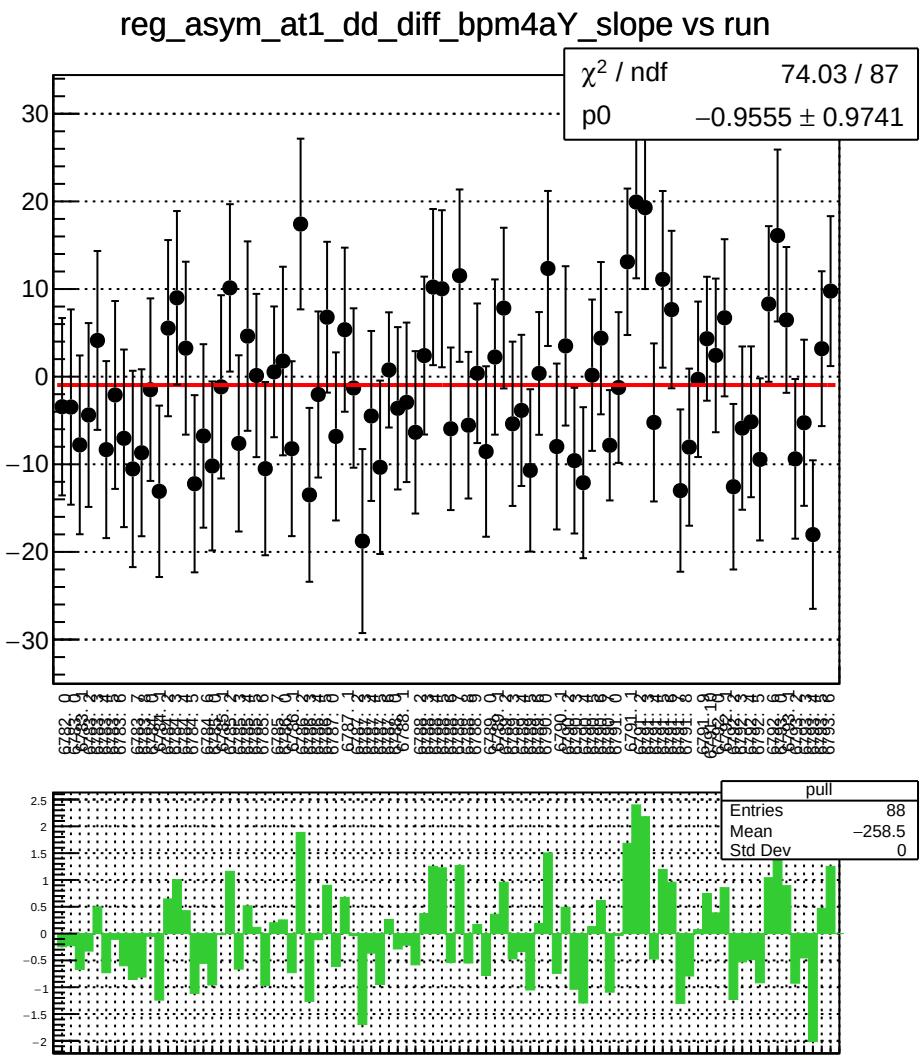

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.51 / 87
p0 −15.74 ± 1.329
pull
Entries 88
Mean 1858
Std Dev 0

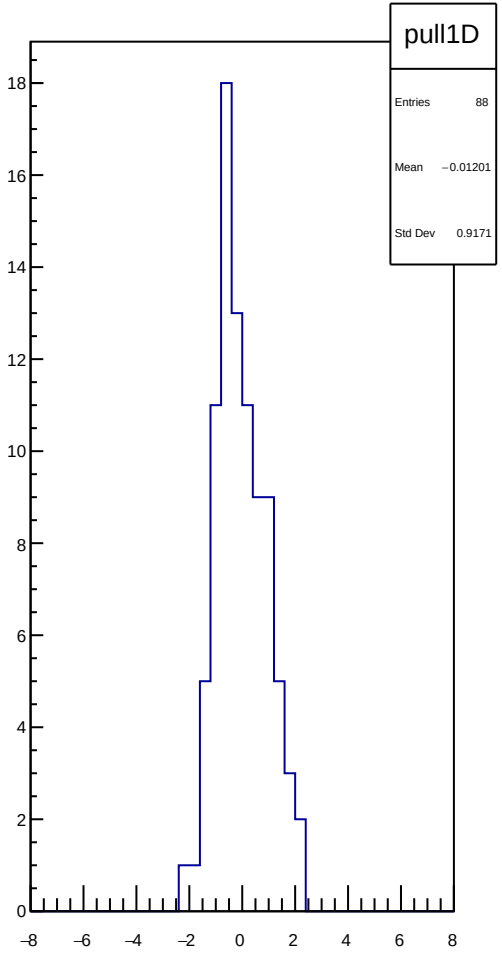

pull1D
Entries 88
Mean −0.00114
Std Dev 1.058

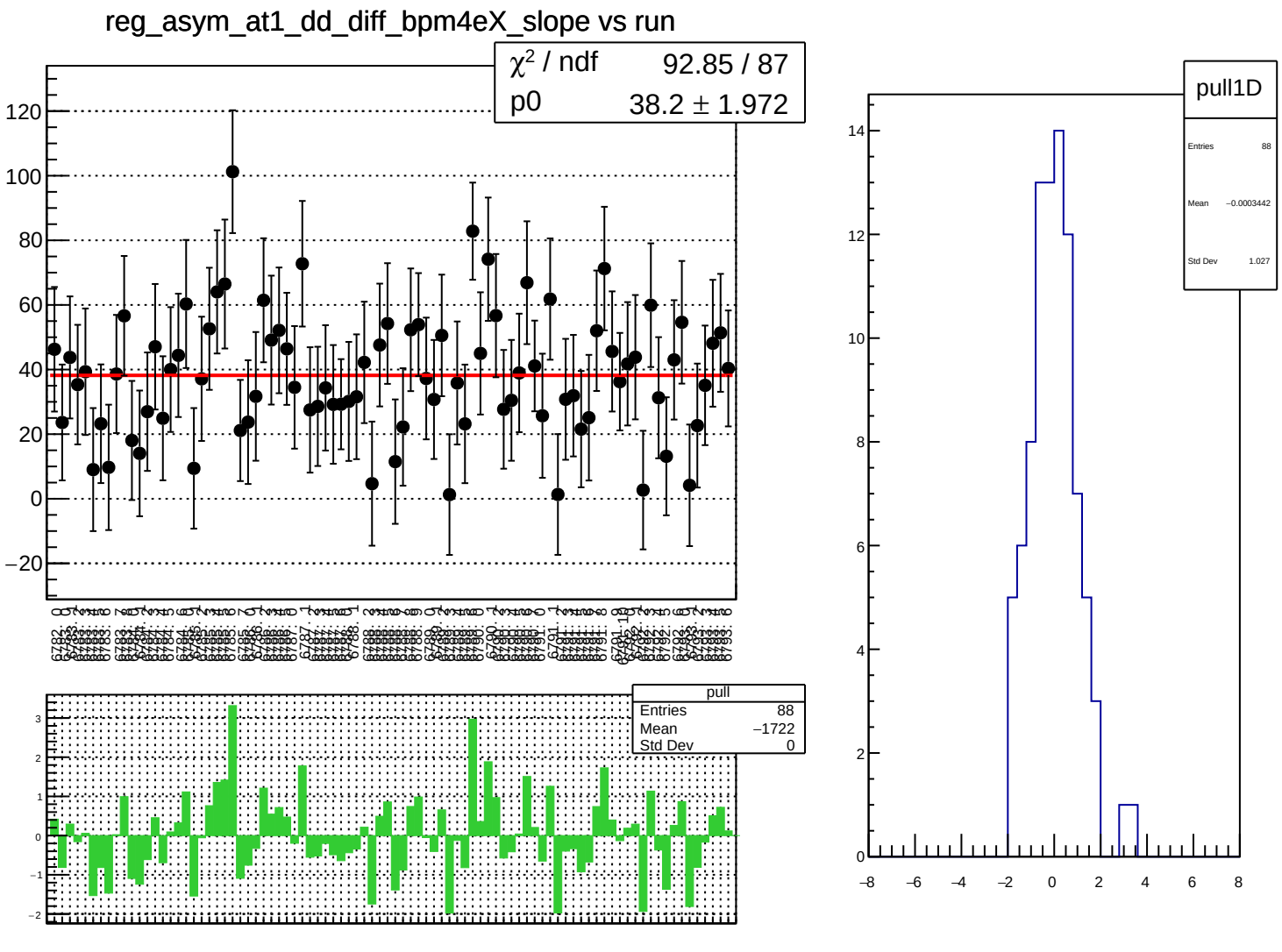

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 122.3 / 87
p0 −16.37 ± 0.08715
−12
−14
−16
−18
−20
pull
Entries 88
Mean 328
Std Dev 0
pull1D
Entries 88
Mean −0.005327
Std Dev 1.179

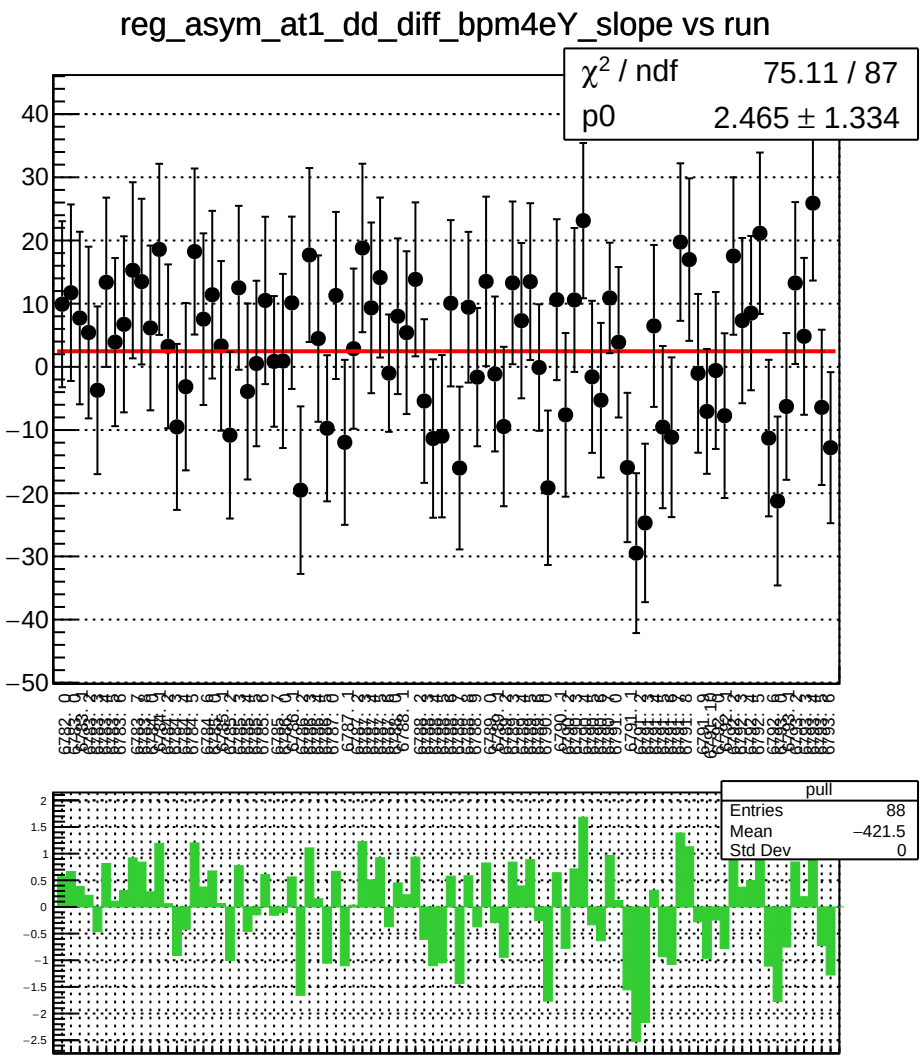

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 91.53 / 87
p0 11.31 ± 2.114
pull
Entries 88
Mean −465.9
Std Dev 0

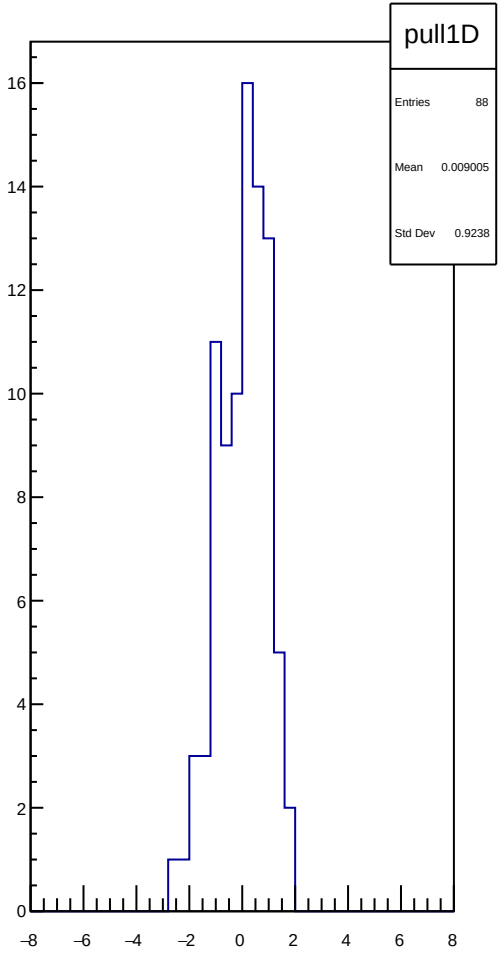

pull1D
Entries 88
Mean 0.0008817
Std Dev 1.02

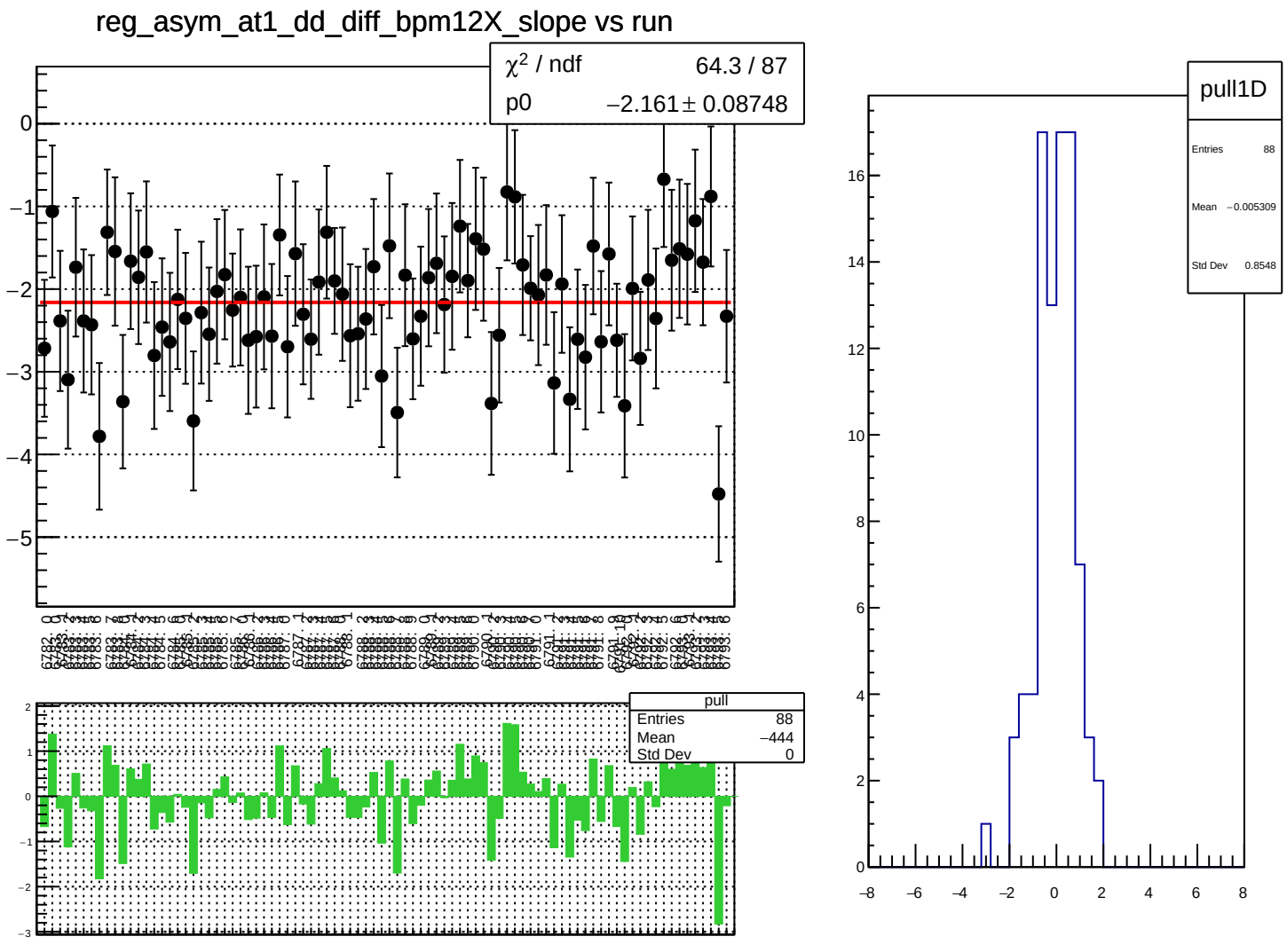

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.03 / 87
p0 −0.9555 ± 0.9741
pull
Entries 88
Mean −258.5
Std Dev 0

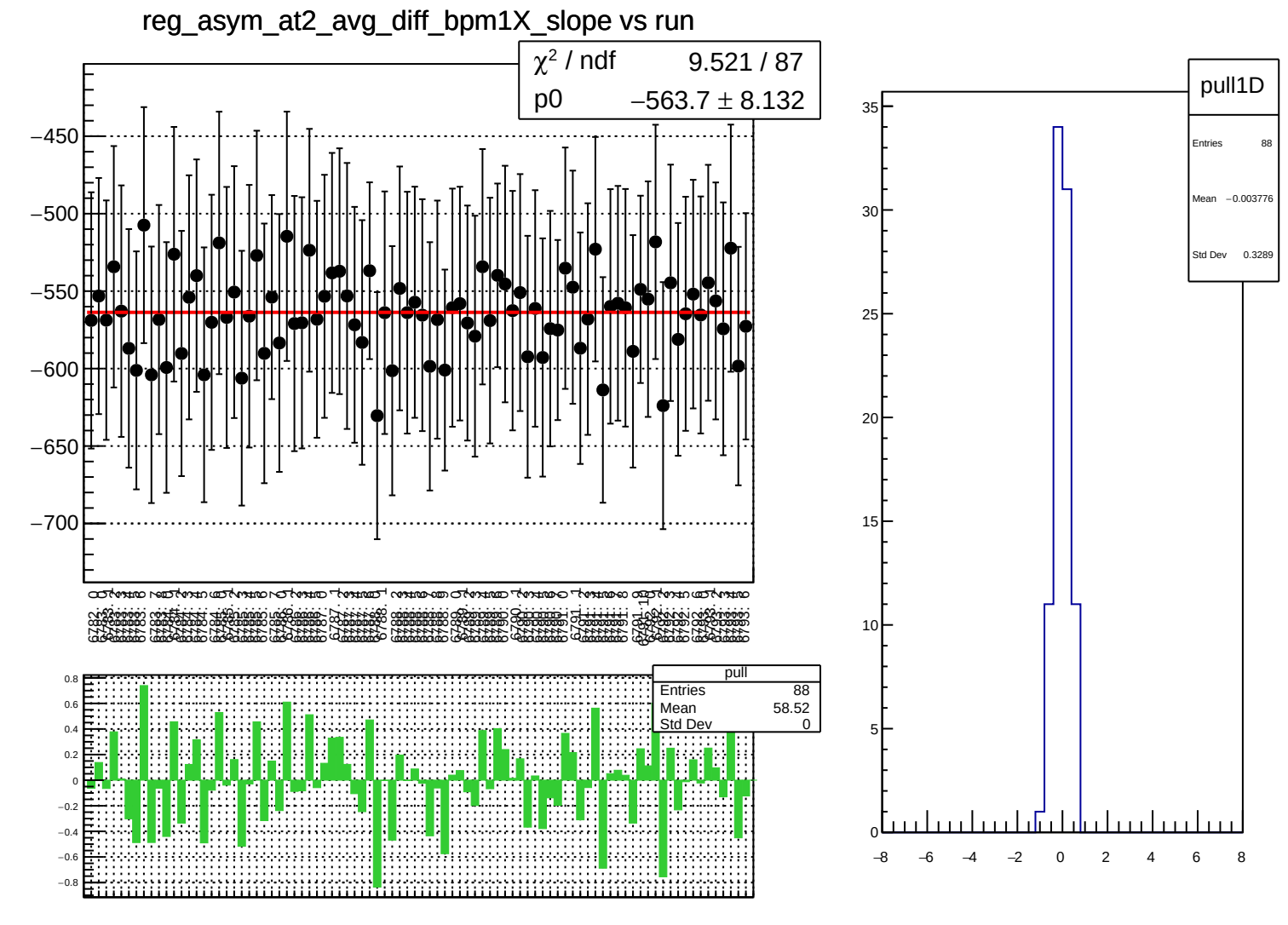

pull1D
Entries 88
Mean −0.01201
Std Dev 0.9171

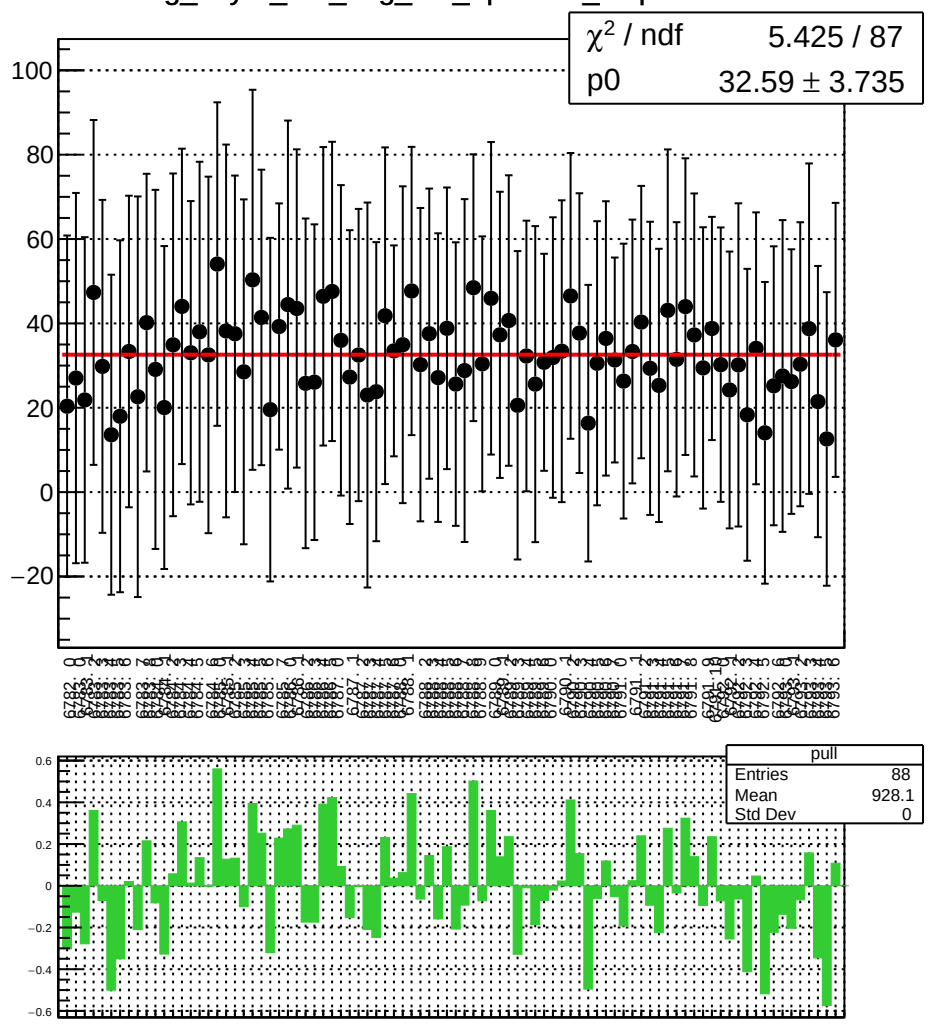

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.85 / 87
p0 38.2 ± 1.972
pull
Entries 88
Mean −1722
Std Dev 0
pull1D
Entries 88
Mean −0.0003442
Std Dev 1.027

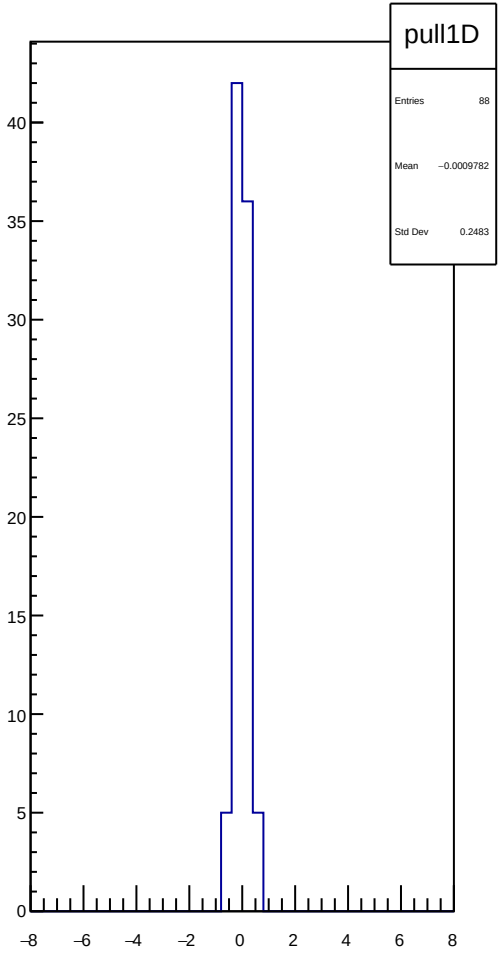

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 75.11 / 87
p0 2.465 ± 1.334
pull
Entries 88
Mean −421.5
Std Dev 0

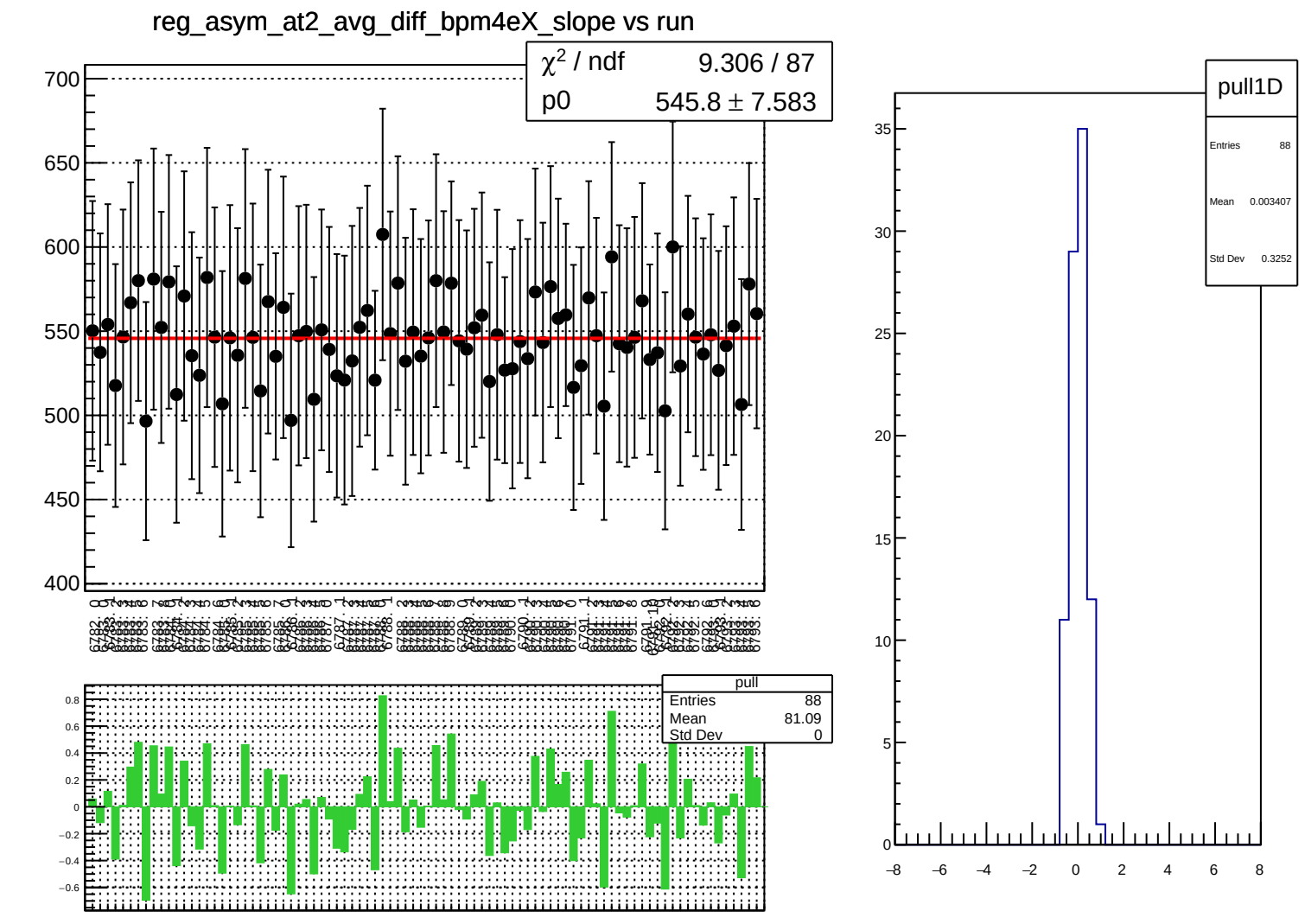

pull1D
Entries 88
Mean 0.009005
Std Dev 0.9238

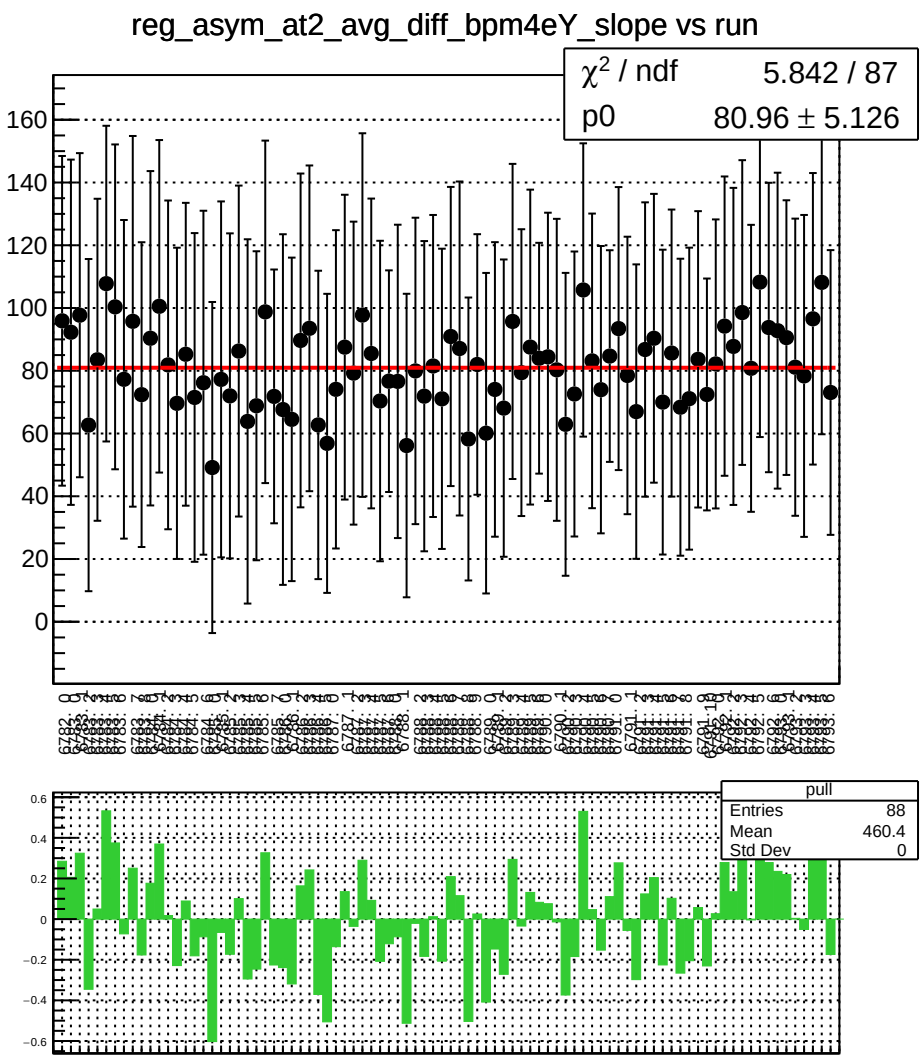

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 64.3 / 87
p0 −2.161 ± 0.08748
pull
Entries 88
Mean −444
Std Dev 0
pull1D
Entries 88
Mean −0.005309
Std Dev 0.8548

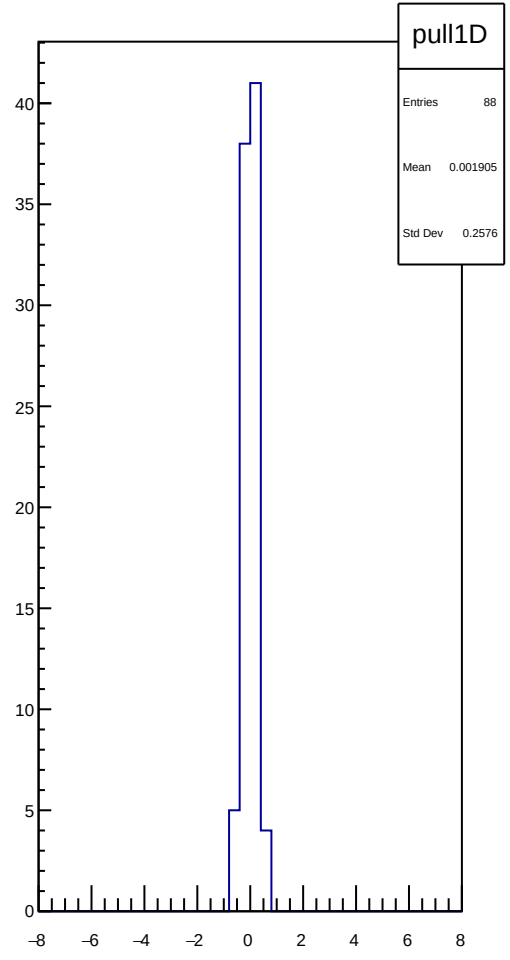

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.521 / 87
p0 −563.7 ± 8.132
−450
−500
−550
−600
−650
−700
pull
Entries 88
Mean 58.52
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.003776
Std Dev 0.3289
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

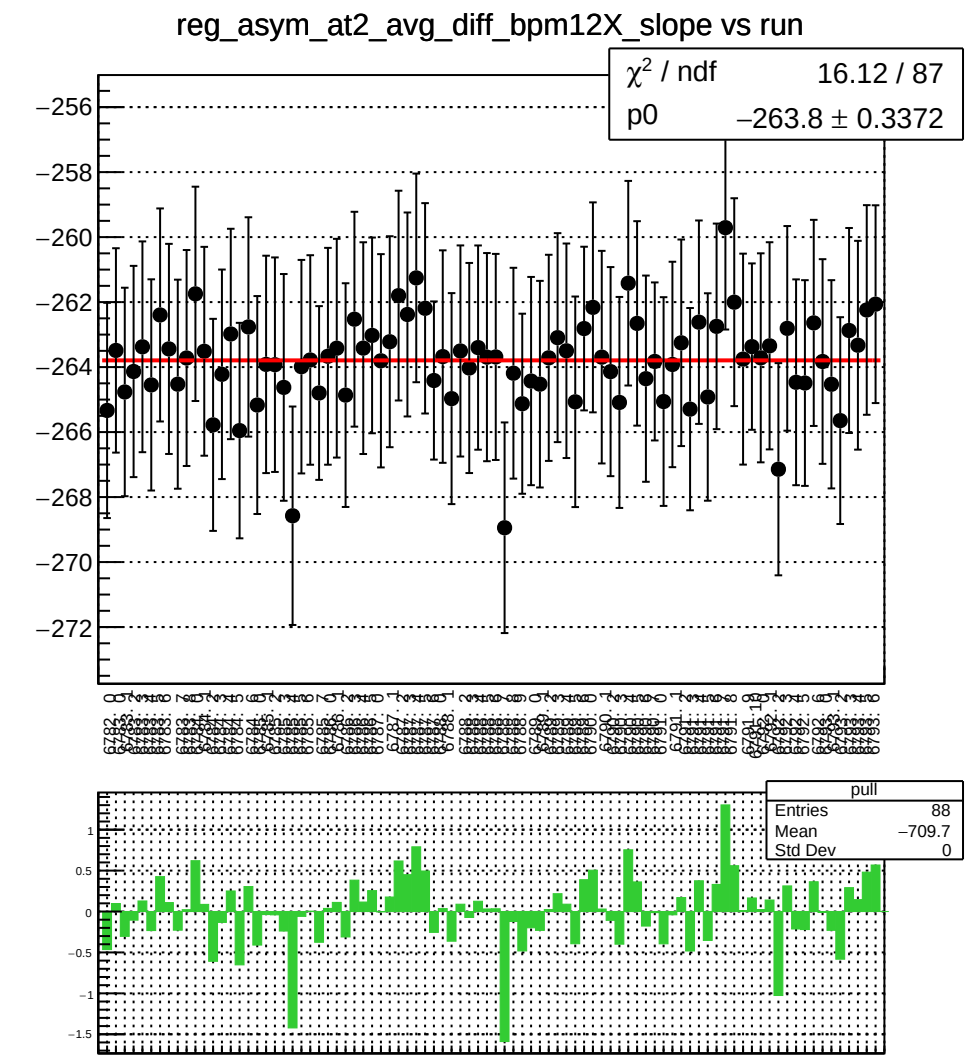

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.425 / 87
p0 32.59 ± 3.735
pull
Entries 88
Mean 928.1
Std Dev 0

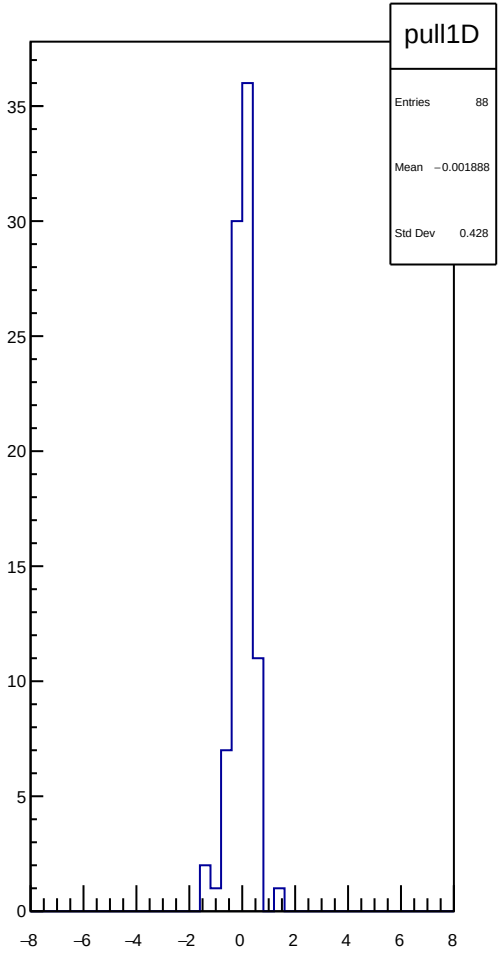

pull1D
Entries 88
Mean −0.0009782
Std Dev 0.2483

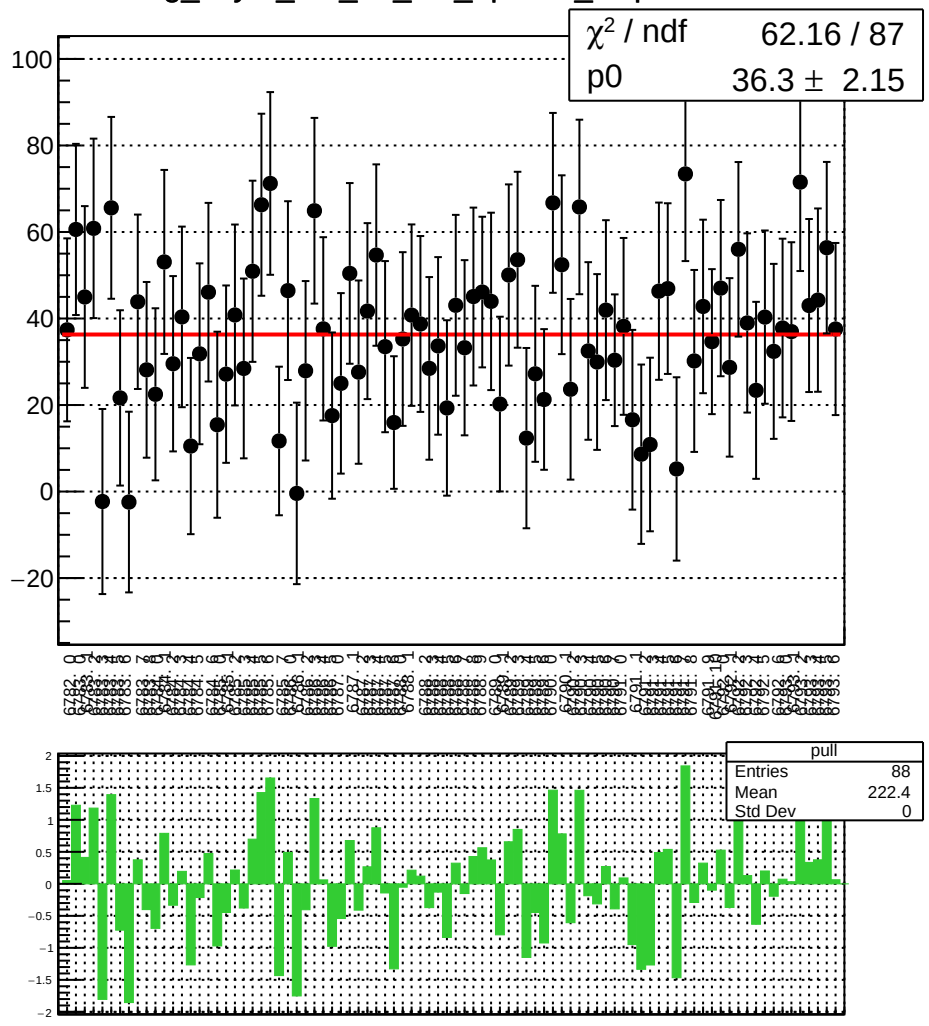

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.306 / 87
p0 545.8 ± 7.583
700
650
600
550
500
450
400
pull
Entries 88
Mean 81.09
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.003407
Std Dev 0.3252
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

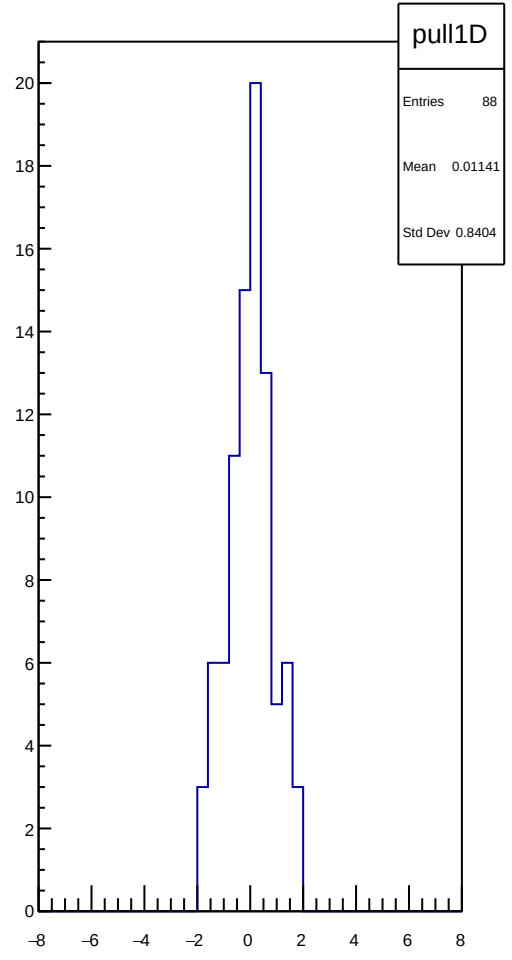

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 5.842 / 87
p0 80.96 ± 5.126
pull
Entries 88
Mean 460.4
Std Dev 0

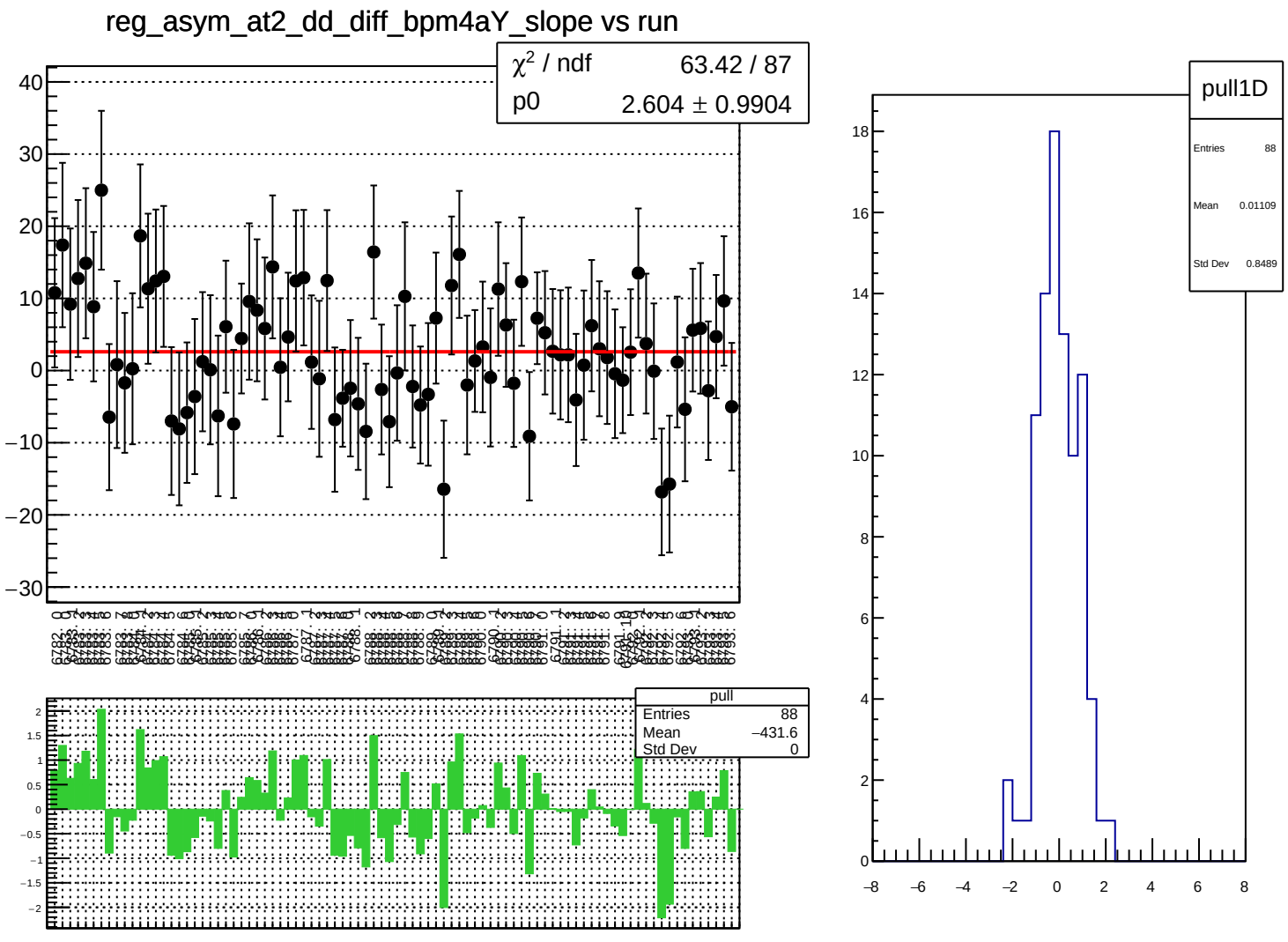

pull1D
Entries 88
Mean 0.001905
Std Dev 0.2576

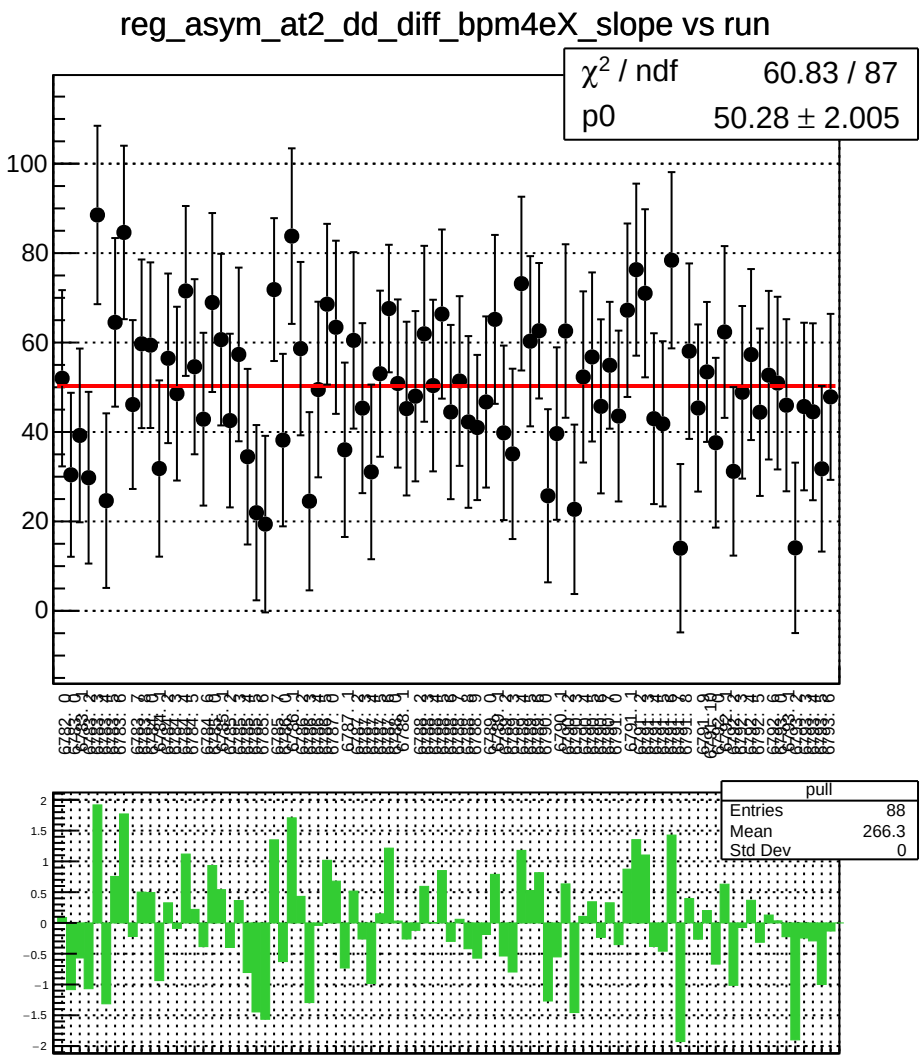

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 16.12 / 87
p0 −263.8 ± 0.3372
pull
Entries 88
Mean −709.7
Std Dev 0

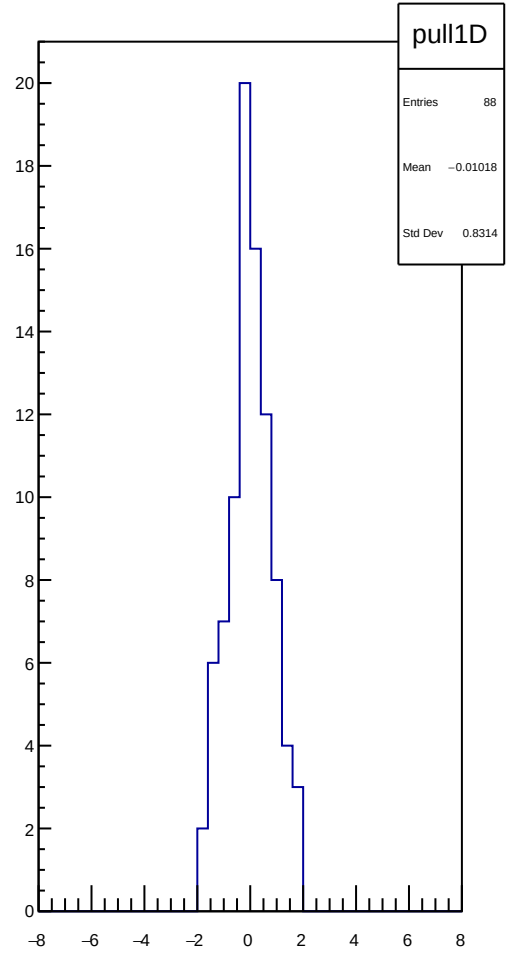

pull1D
Entries 88
Mean −0.001888
Std Dev 0.428

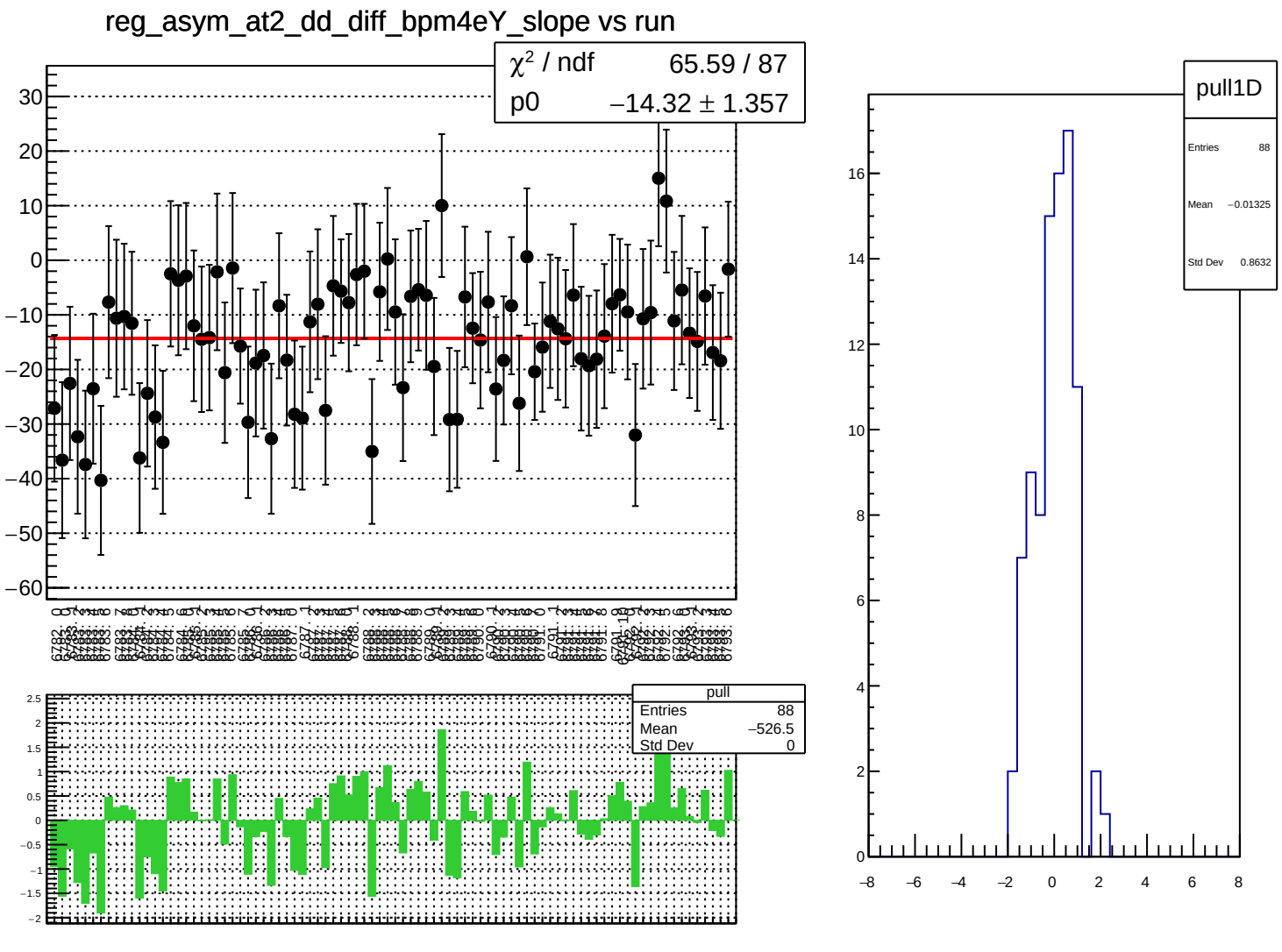

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 62.16 / 87
p0 36.3 ± 2.15
pull
Entries 88
Mean 222.4
Std Dev 0

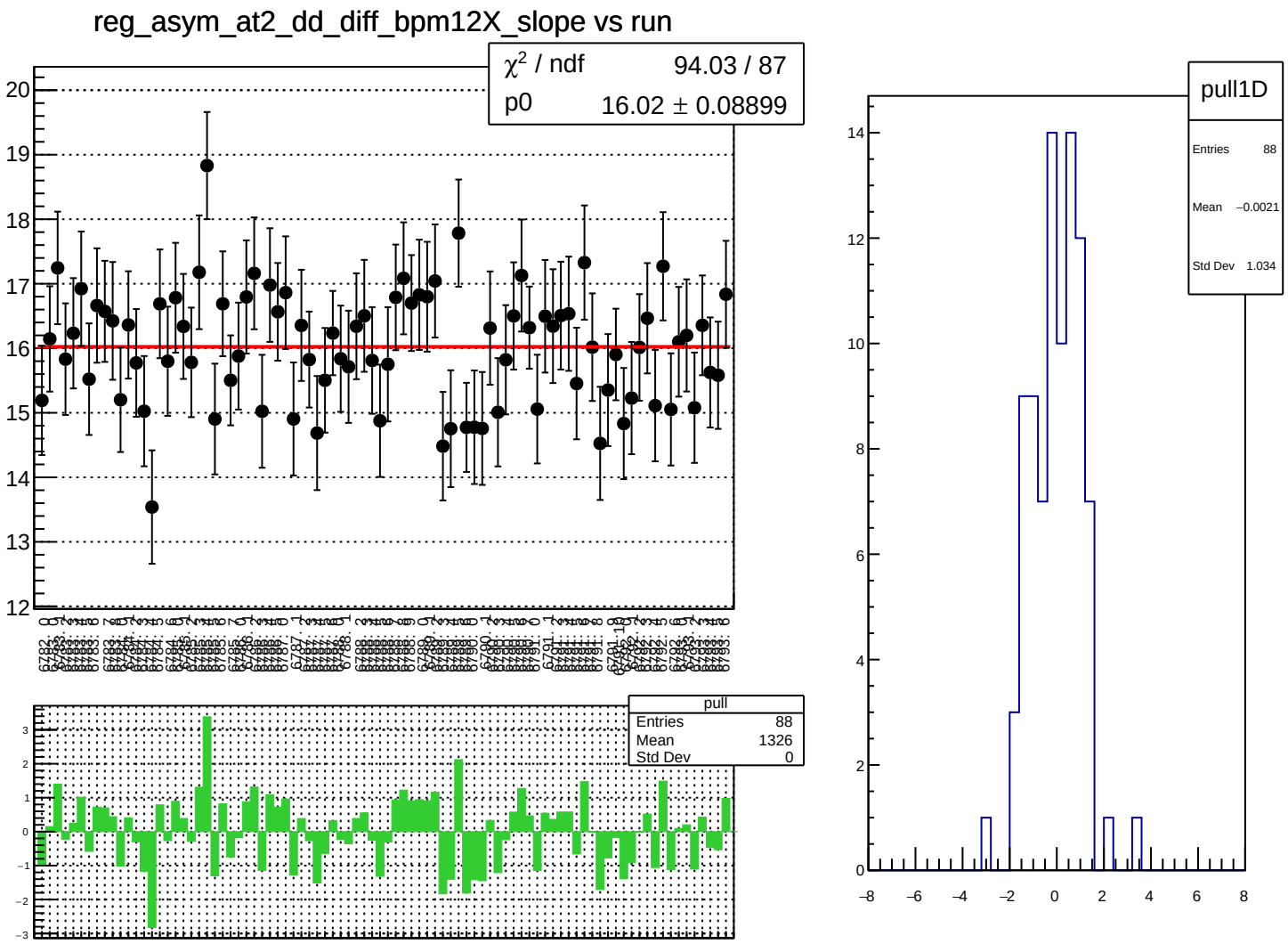

pull1D
Entries 88
Mean 0.01141
Std Dev 0.8404

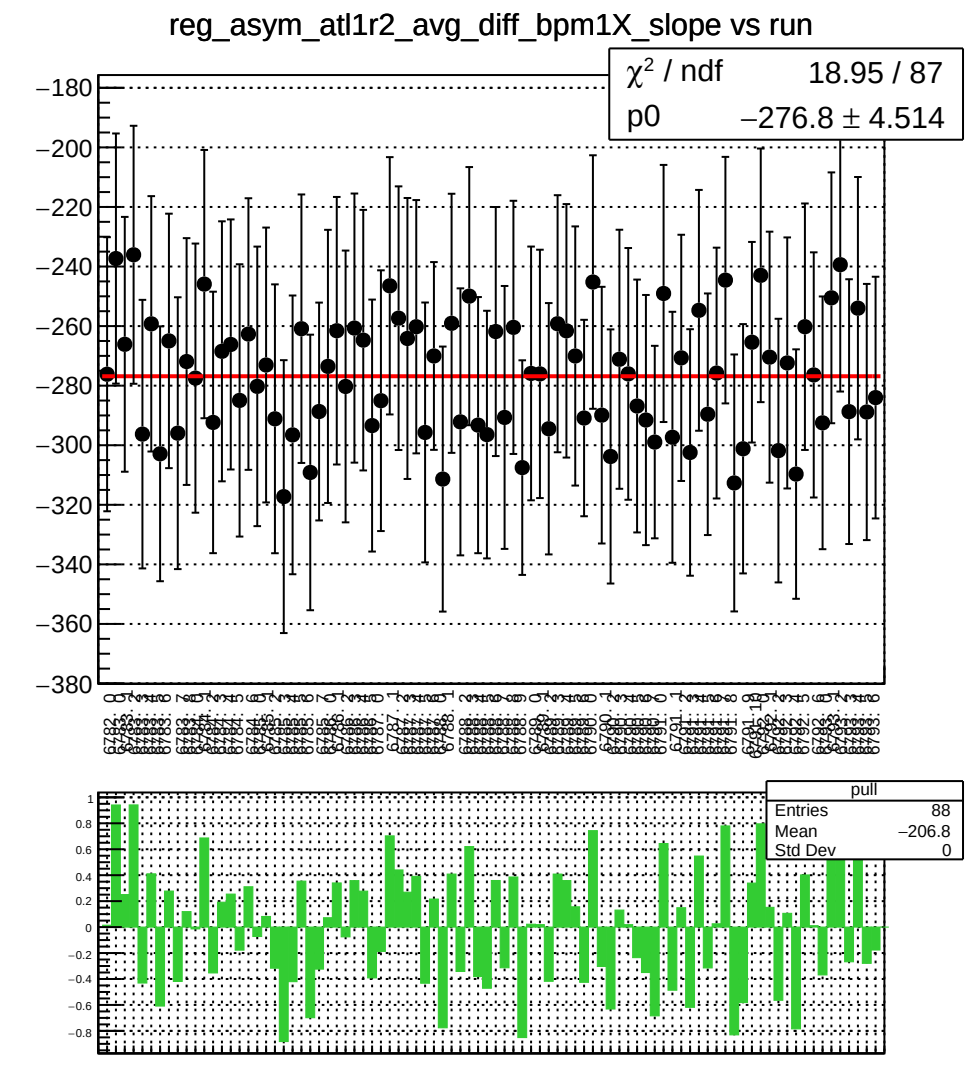

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.42 / 87
p0 2.604 ± 0.9904
pull
Entries 88
Mean −431.6
Std Dev 0
pull1D
Entries 88
Mean 0.01109
Std Dev 0.8489

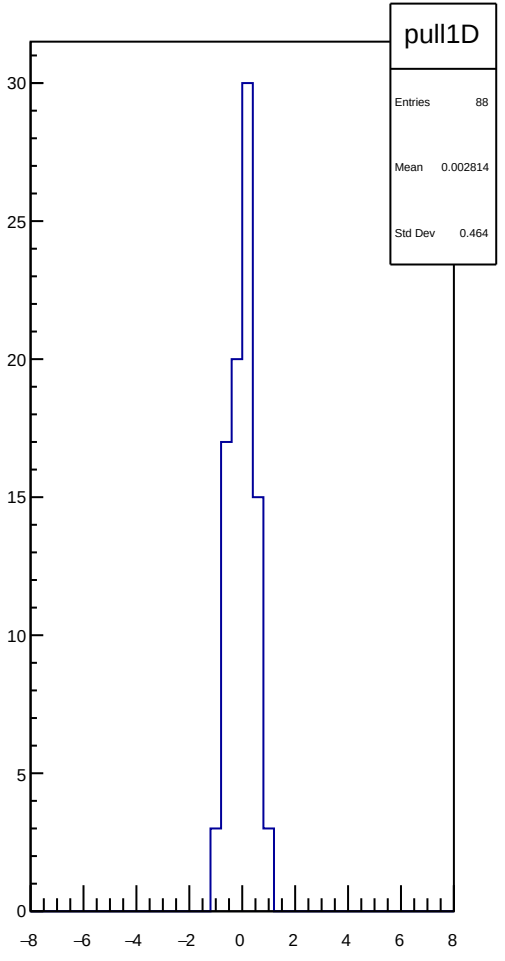

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.83 / 87
p0 50.28 ± 2.005
pull
Entries 88
Mean 266.3
Std Dev 0

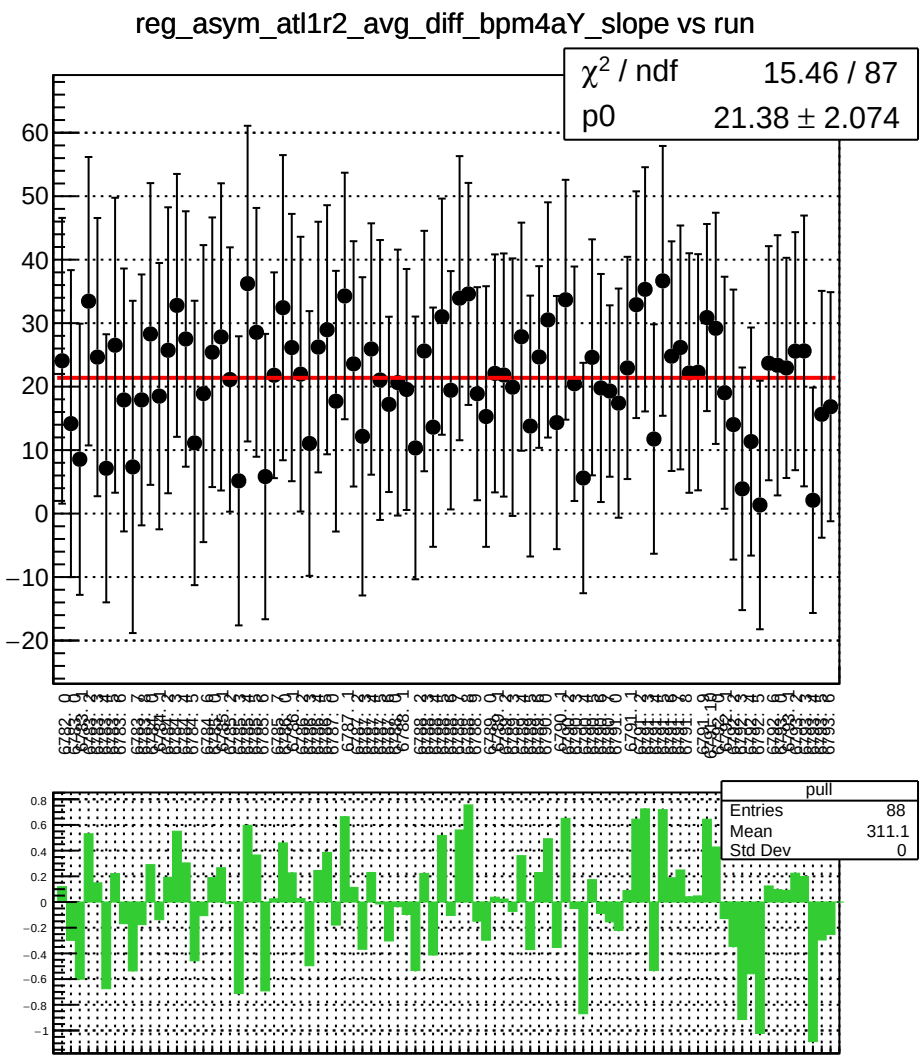

pull1D
Entries 88
Mean −0.01018
Std Dev 0.8314

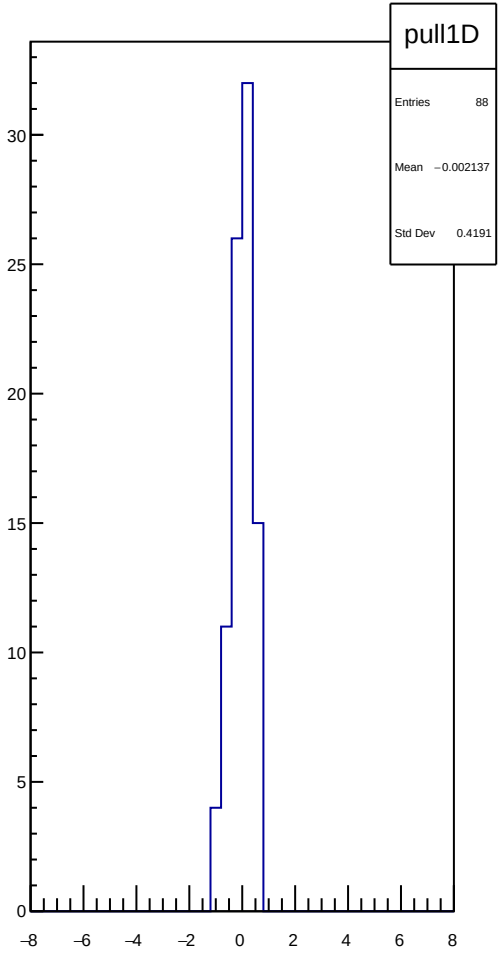

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.59 / 87
p0 −14.32 ± 1.357
pull
Entries 88
Mean −526.5
Std Dev 0
pull1D
Entries 88
Mean −0.01325
Std Dev 0.8632

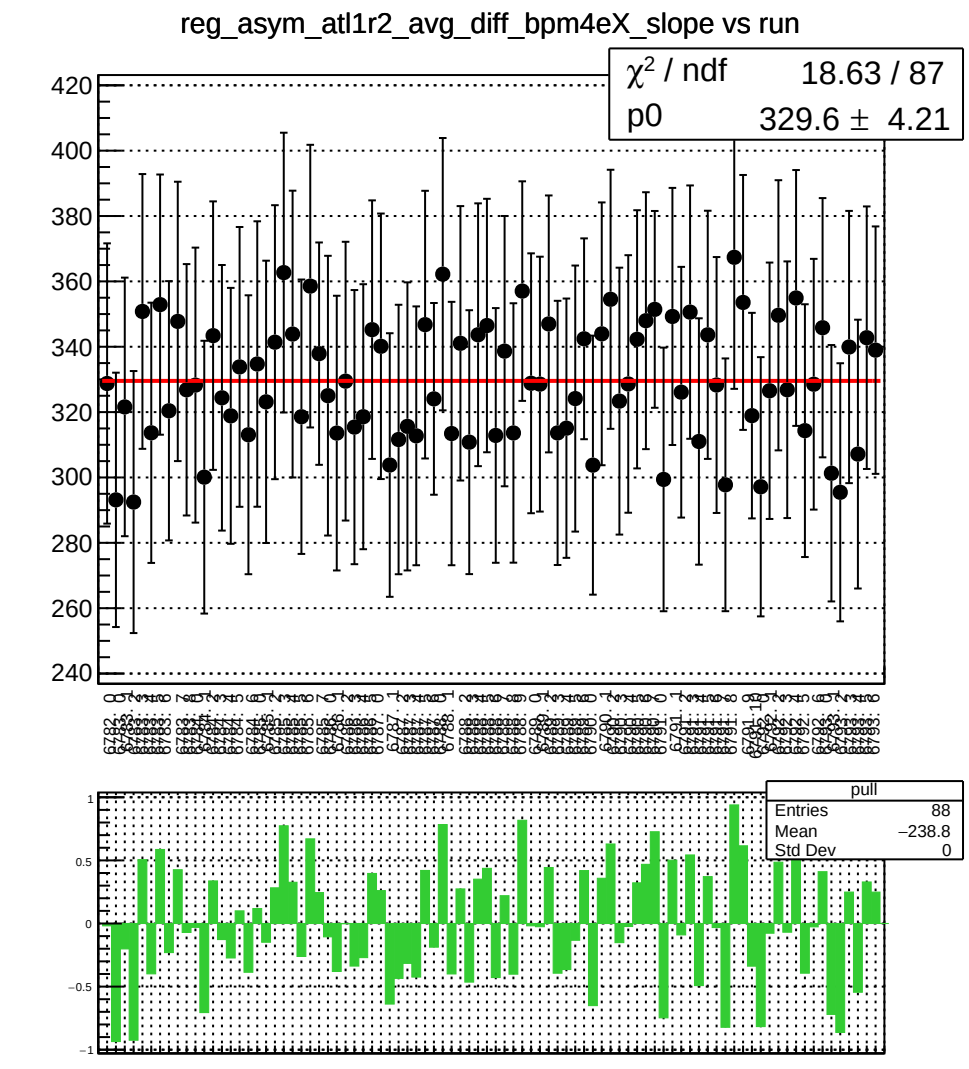

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 94.03 / 87
p0 16.02 ± 0.08899
pull
Entries 88
Mean 1326
Std Dev 0
pull1D
Entries 88
Mean −0.0021
Std Dev 1.034

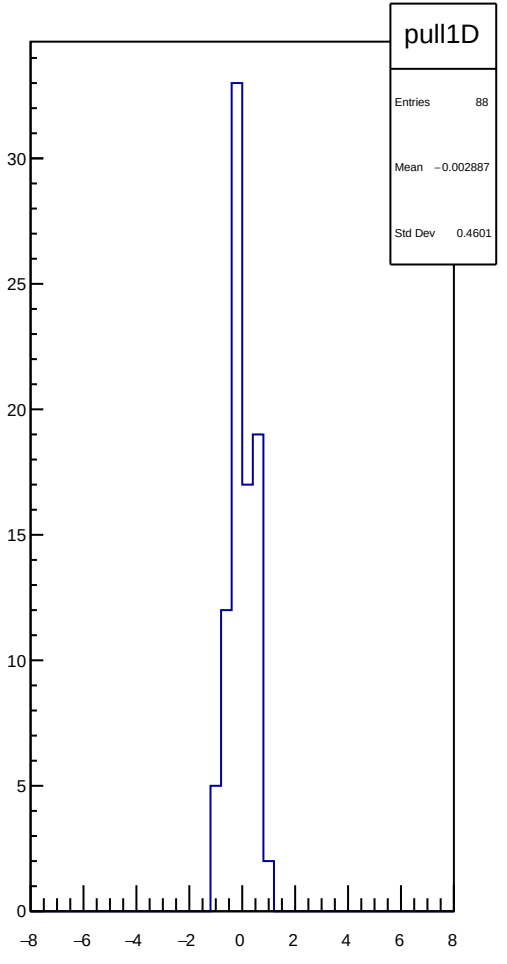

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 18.95 / 87
p0 −276.8 ± 4.514
pull
Entries 88
Mean −206.8
Std Dev 0

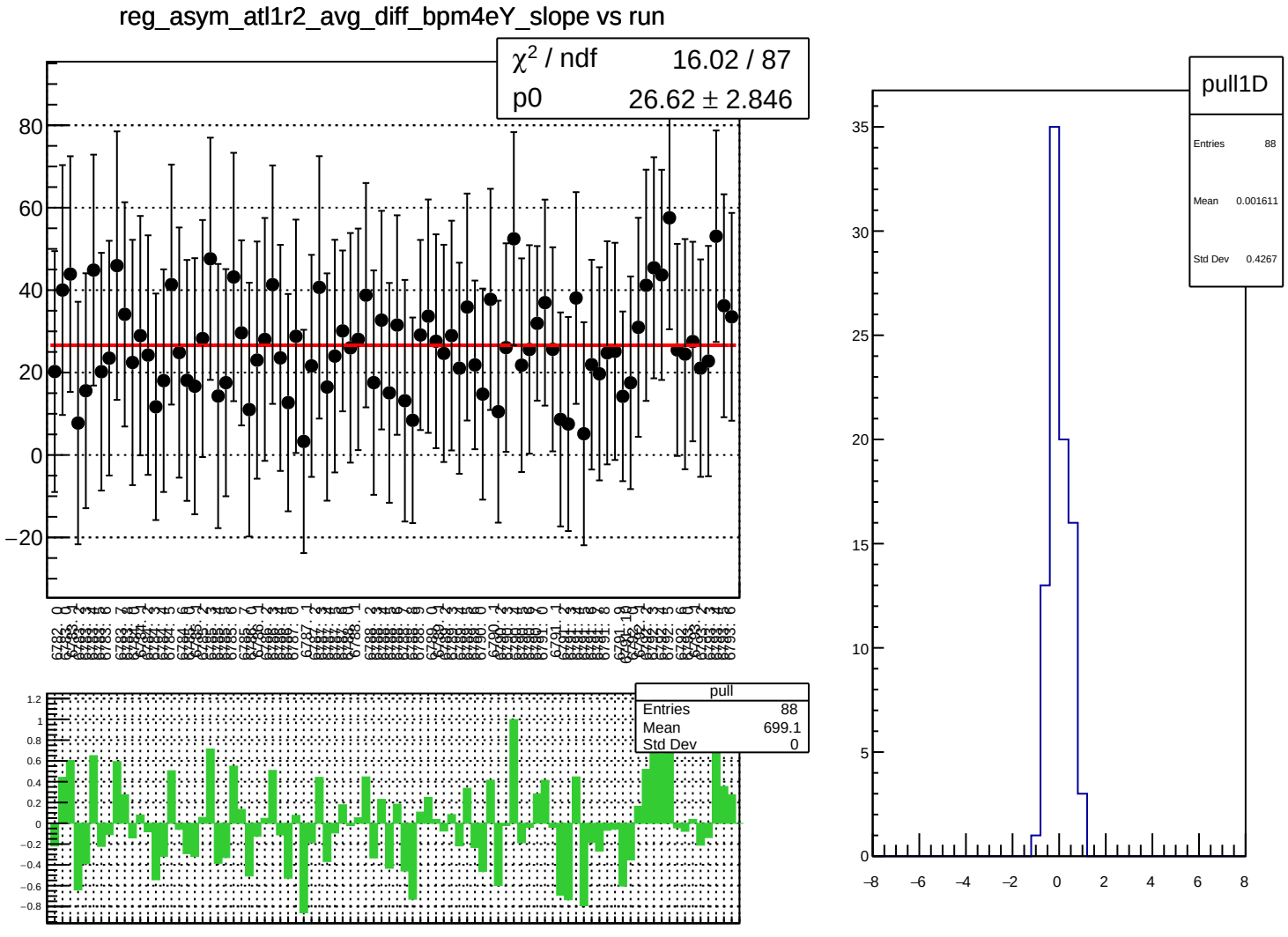

pull1D
Entries 88
Mean 0.002814
Std Dev 0.464

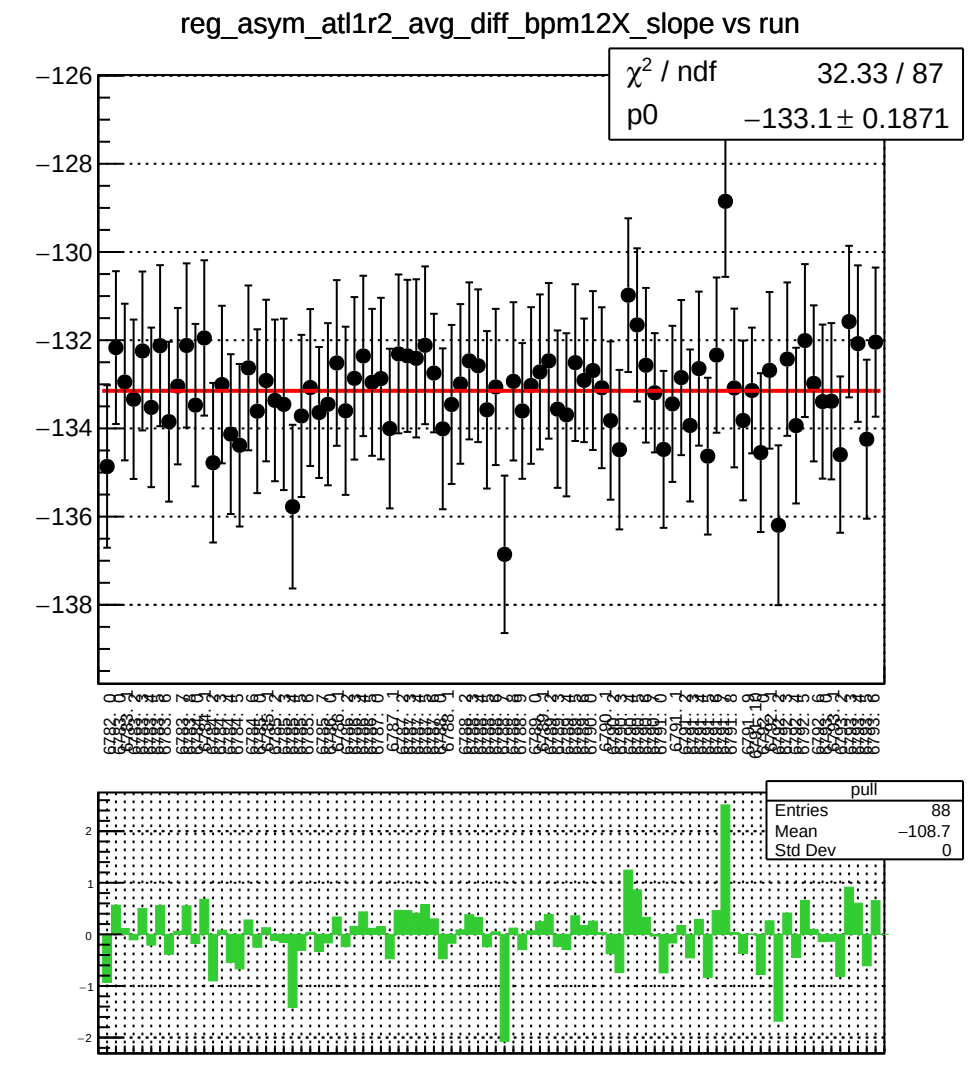

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.46 / 87
p0 21.38 ± 2.074
pull
Entries 88
Mean 311.1
Std Dev 0

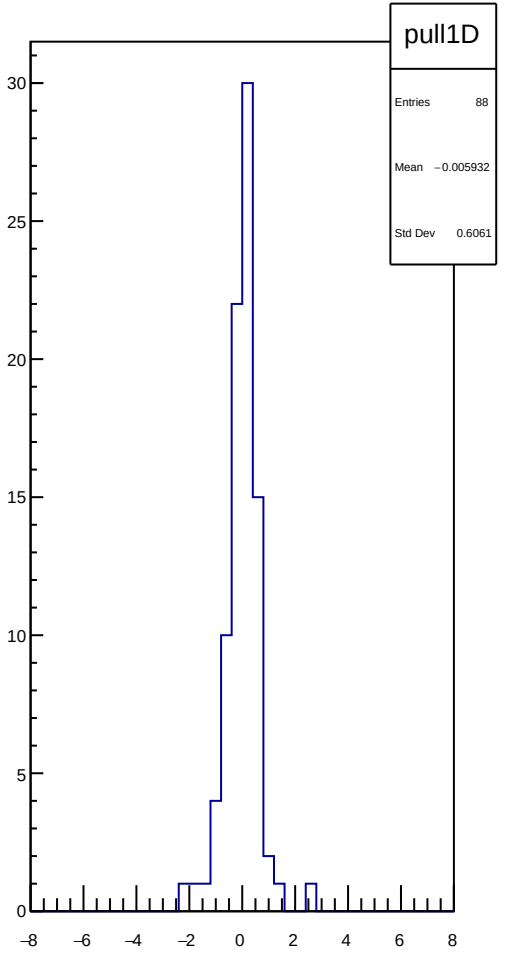

pull1D
Entries 88
Mean −0.002137
Std Dev 0.4191

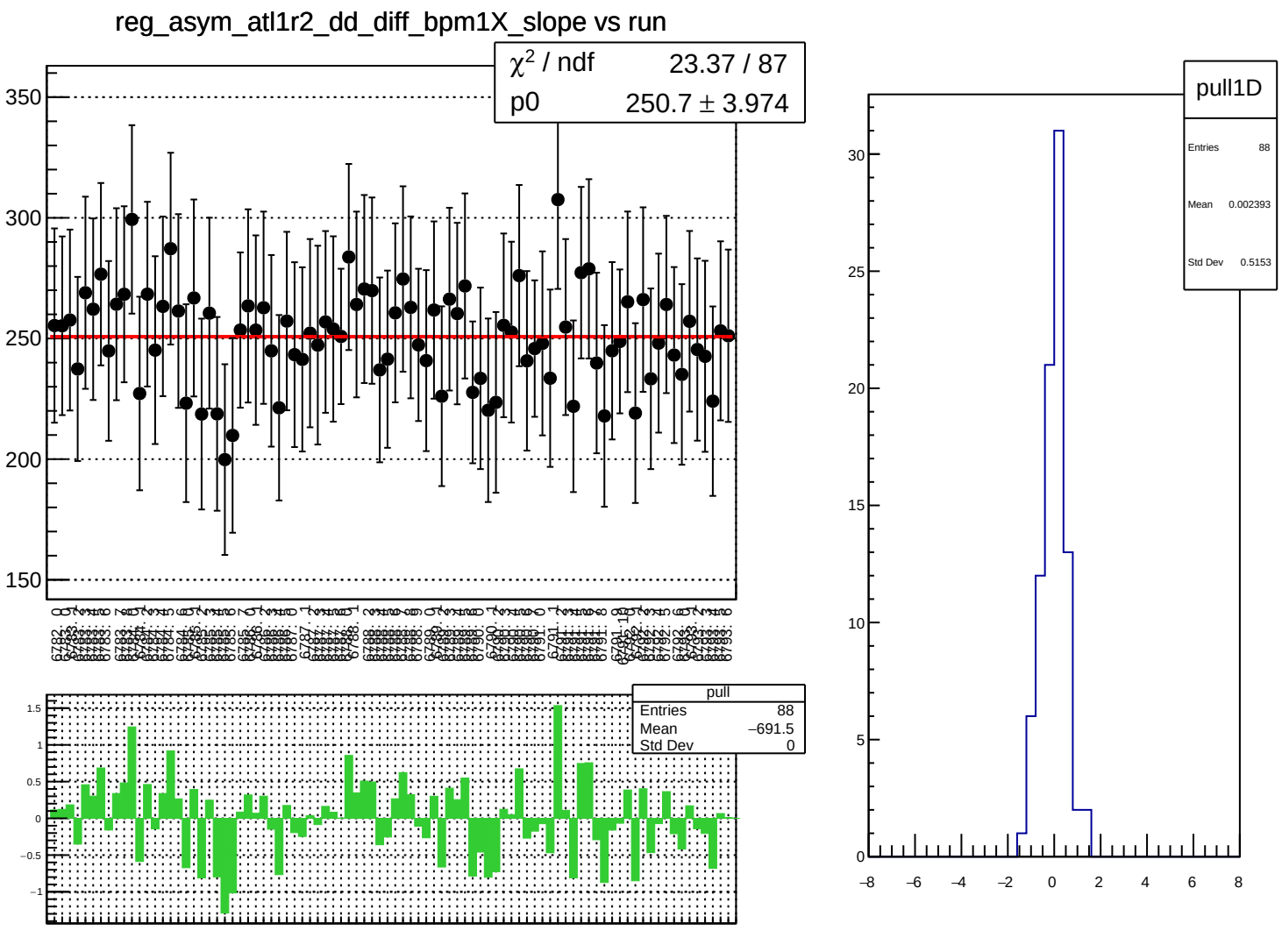

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.63 / 87
p0 329.6 ± 4.21
pull
Entries 88
Mean −238.8
Std Dev 0

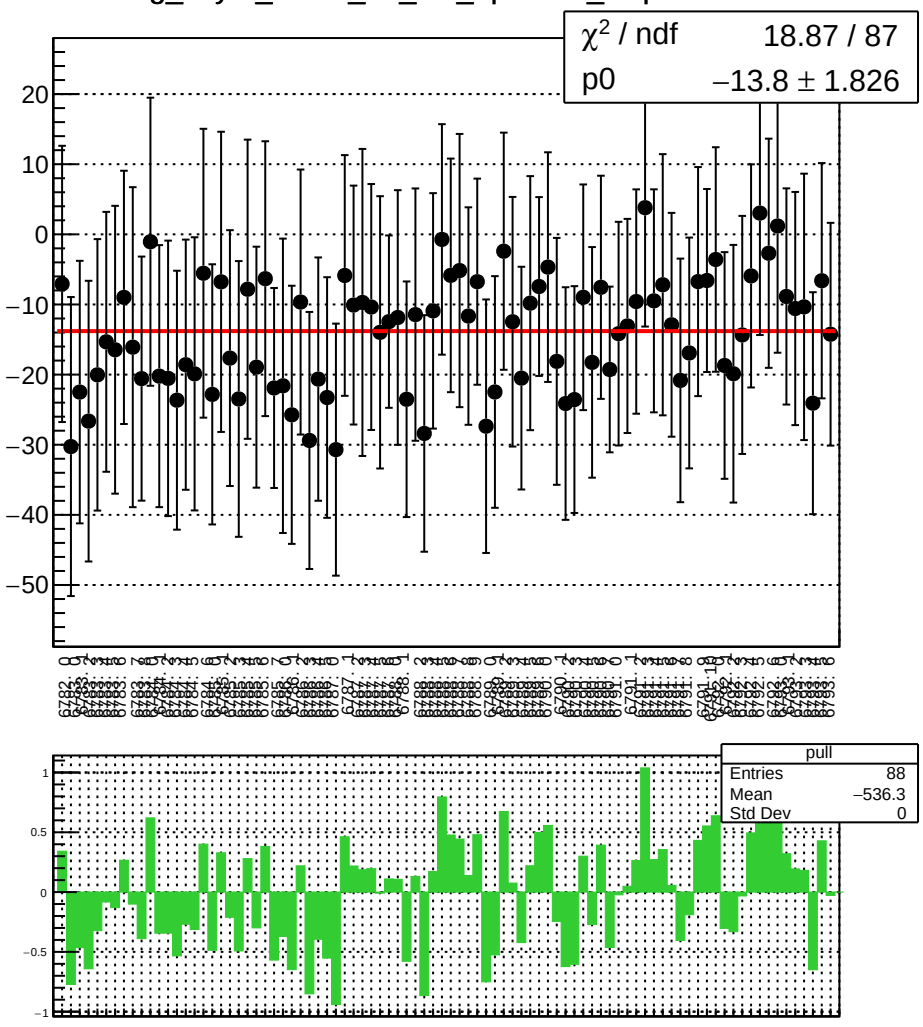

pull1D
Entries 88
Mean −0.002887
Std Dev 0.4601

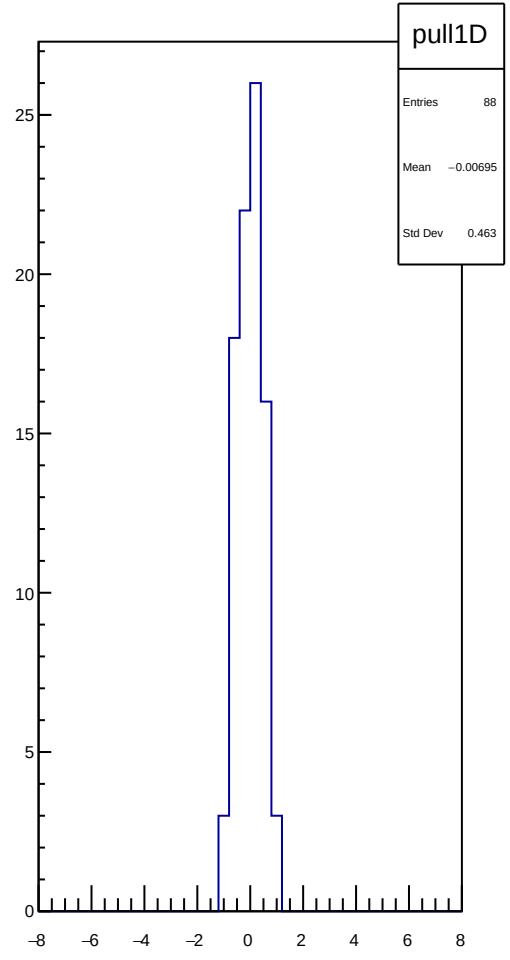

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 87
p0 26.62 ± 2.846
pull
Entries 88
Mean 699.1
Std Dev 0
pull1D
Entries 88
Mean 0.001611
Std Dev 0.4267

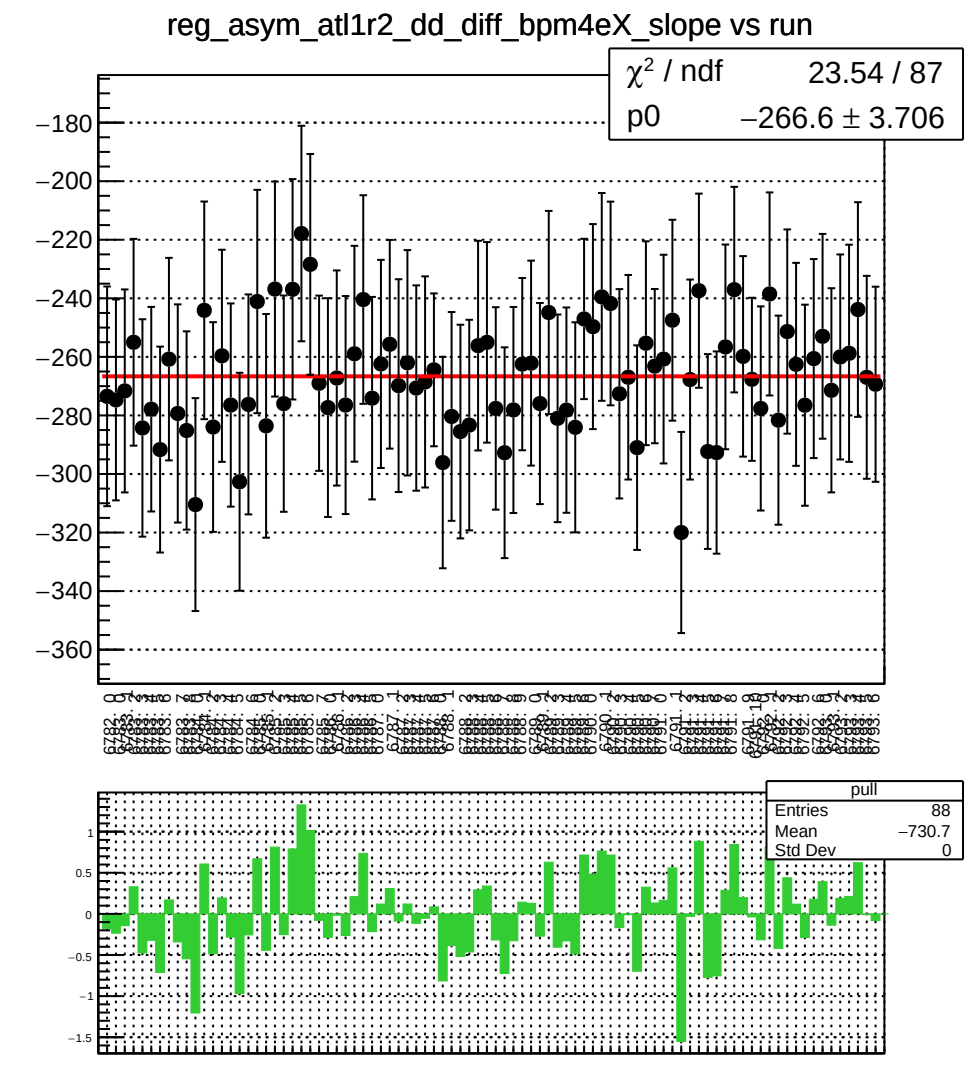

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 32.33 / 87
p0 −133.1 ± 0.1871
pull
Entries 88
Mean −108.7
Std Dev 0

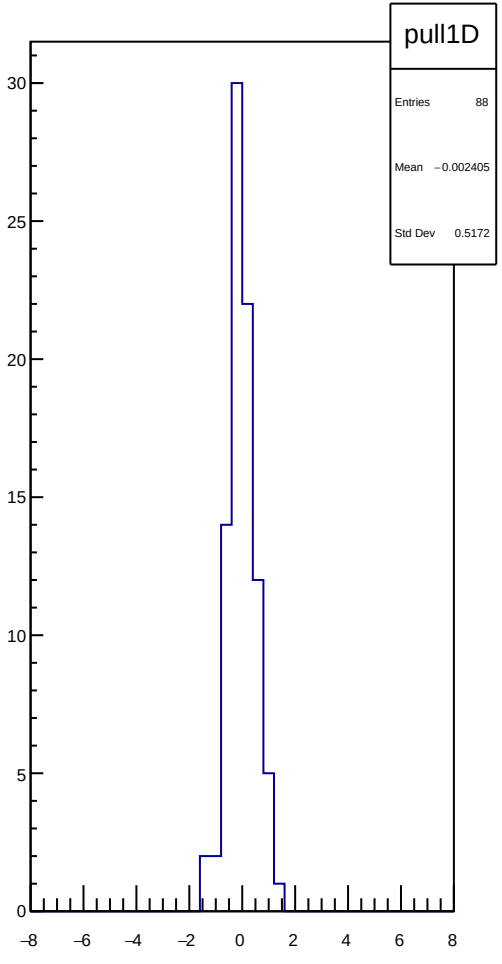

pull1D
Entries 88
Mean −0.005932
Std Dev 0.6061

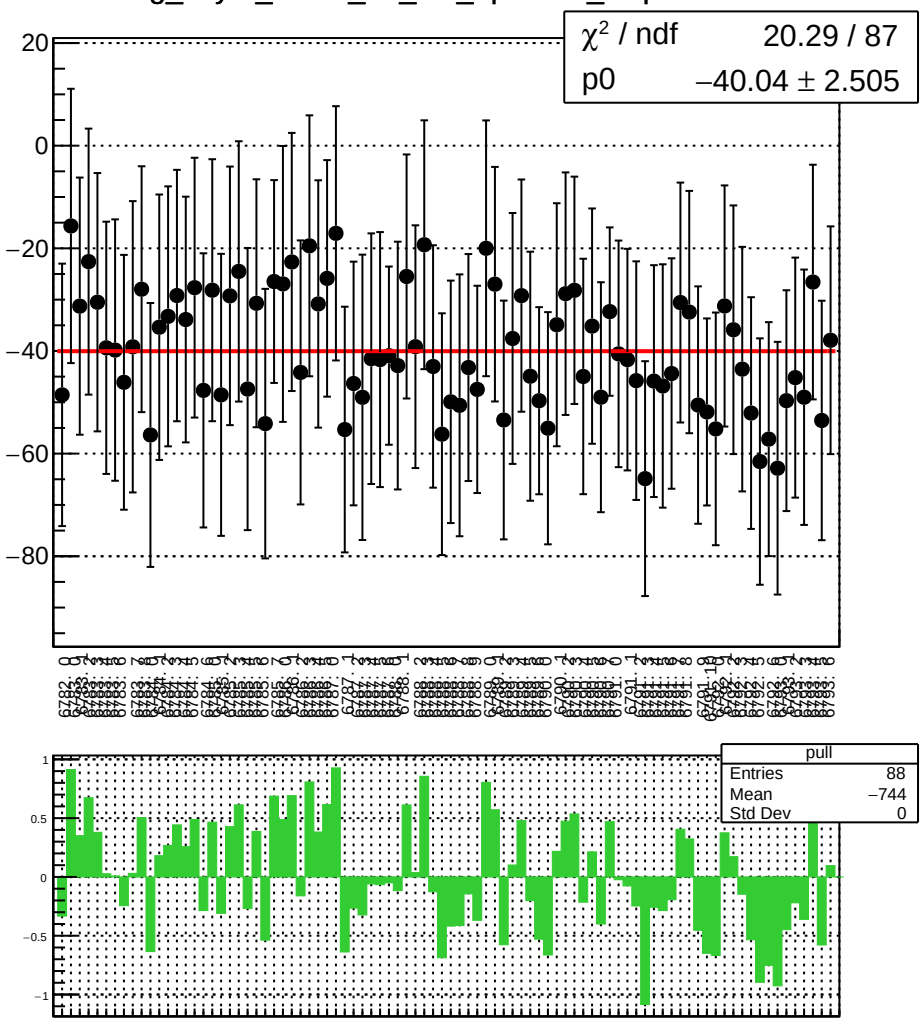

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 23.37 / 87
p0 250.7 ± 3.974
350
300
250
200
150
pull
Entries 88
Mean −691.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002393
Std Dev 0.5153
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

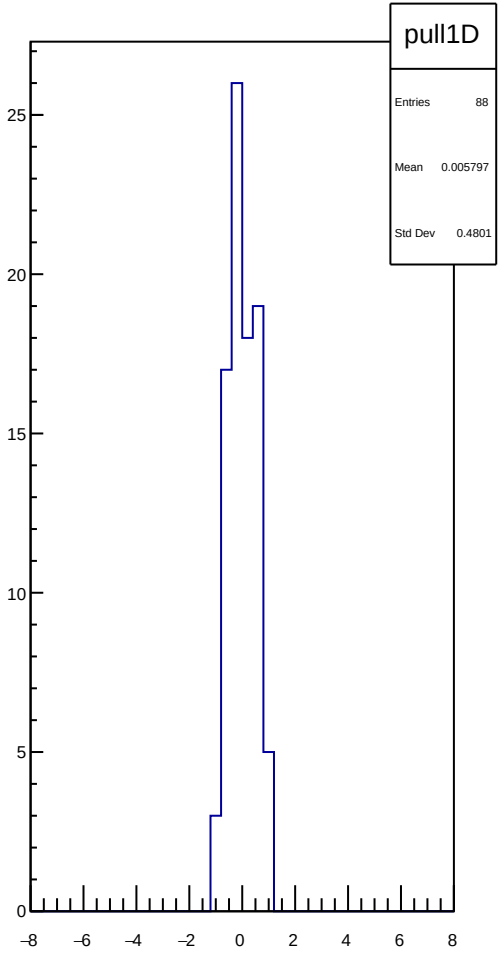

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.87 / 87
p0 −13.8 ± 1.826
pull
Entries 88
Mean −536.3
Std Dev 0

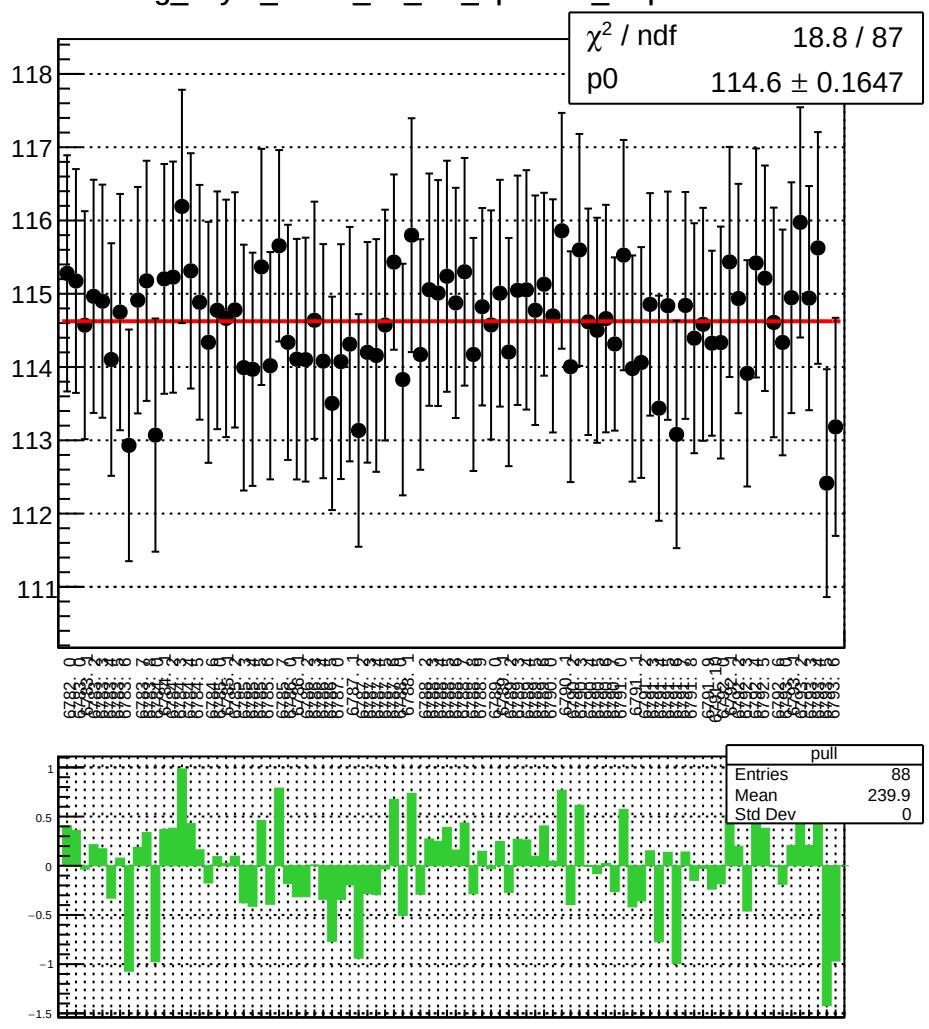

pull1D
Entries 88
Mean −0.00695
Std Dev 0.463

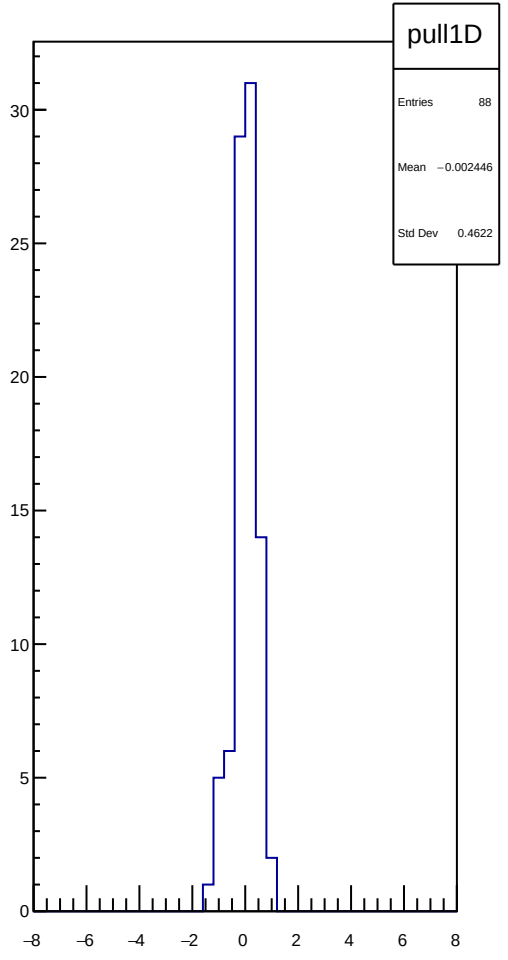

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.54 / 87
p0 −266.6 ± 3.706
pull
Entries 88
Mean −730.7
Std Dev 0

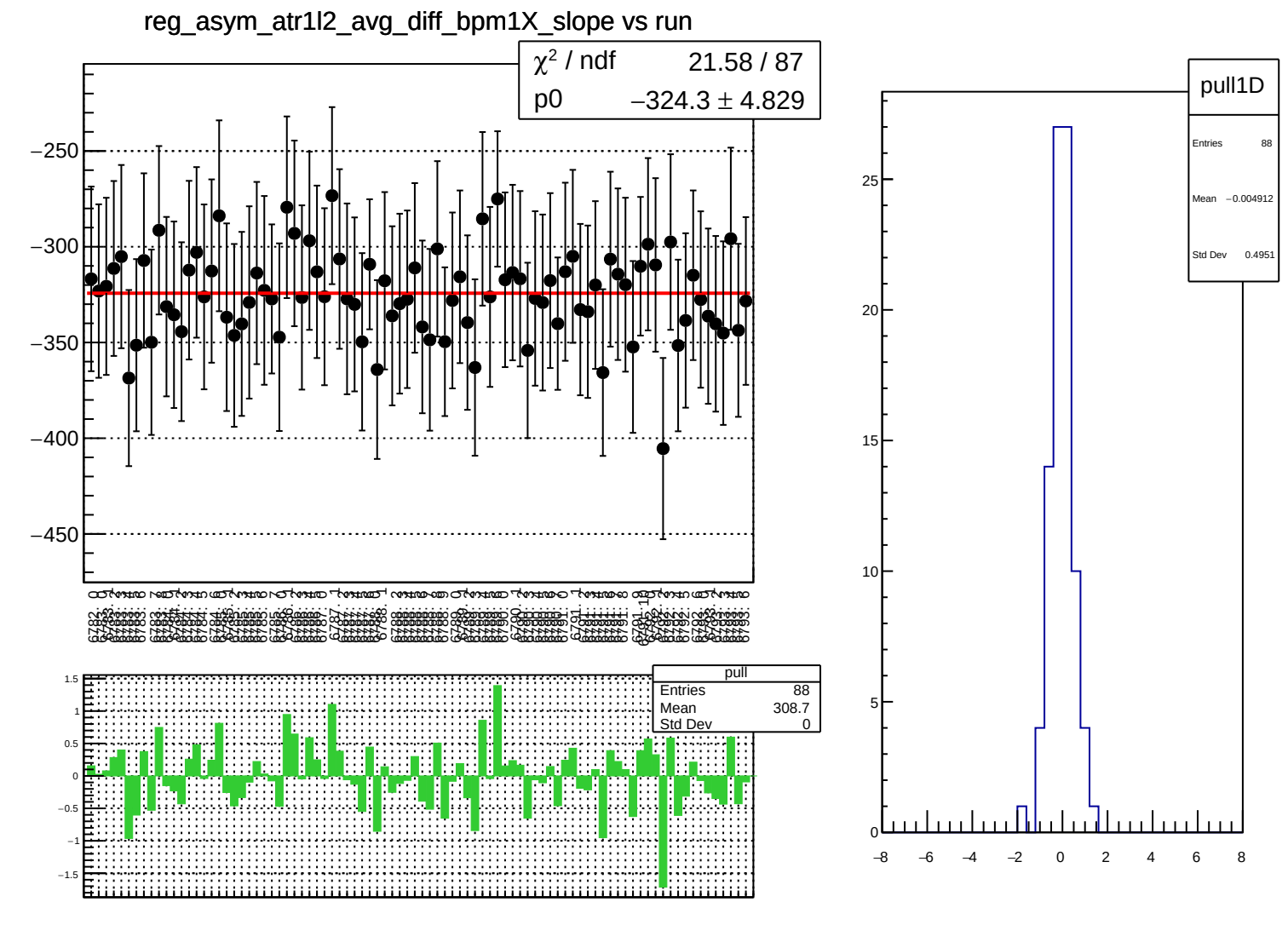

pull1D
Entries 88
Mean −0.002405
Std Dev 0.5172

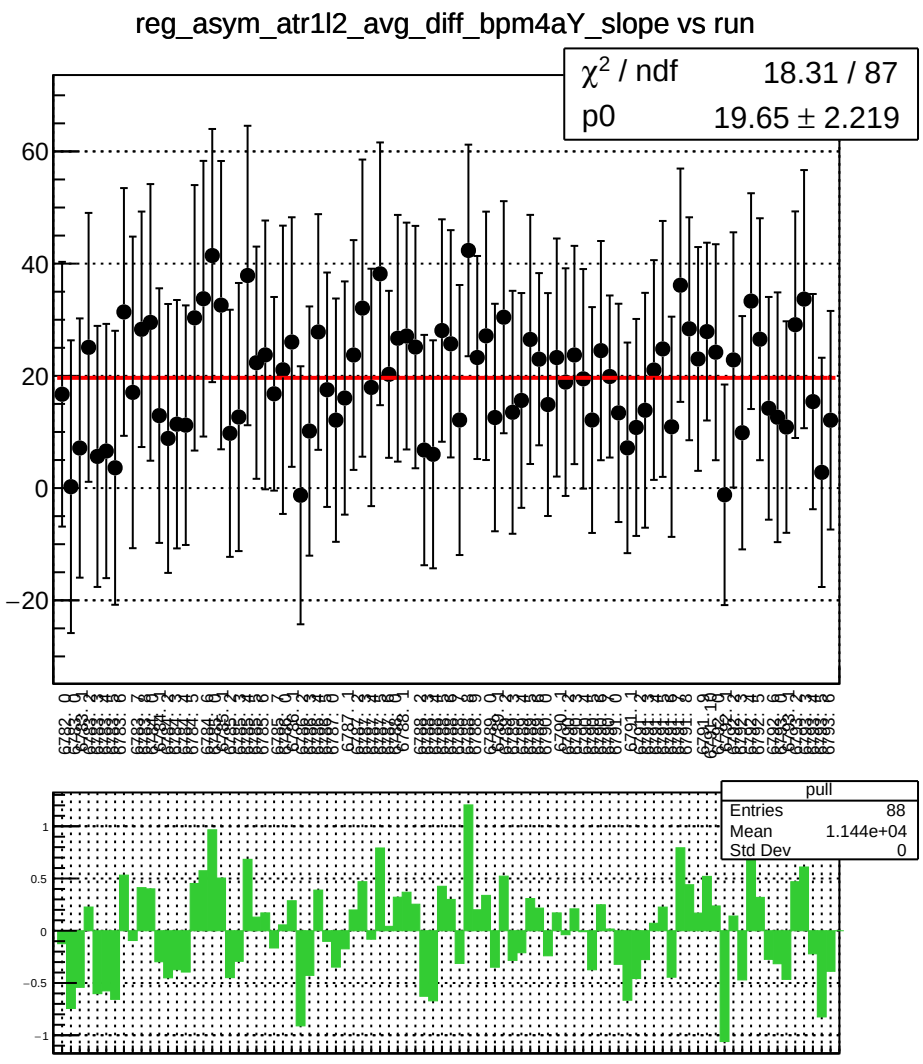

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.29 / 87
p0 −40.04 ± 2.505
pull
Entries 88
Mean −744
Std Dev 0

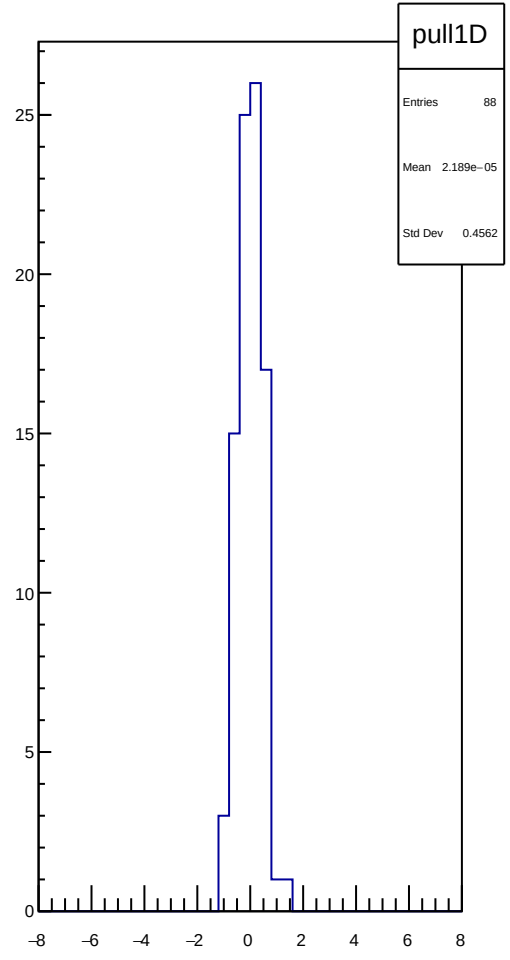

pull1D
Entries 88
Mean 0.005797
Std Dev 0.4801

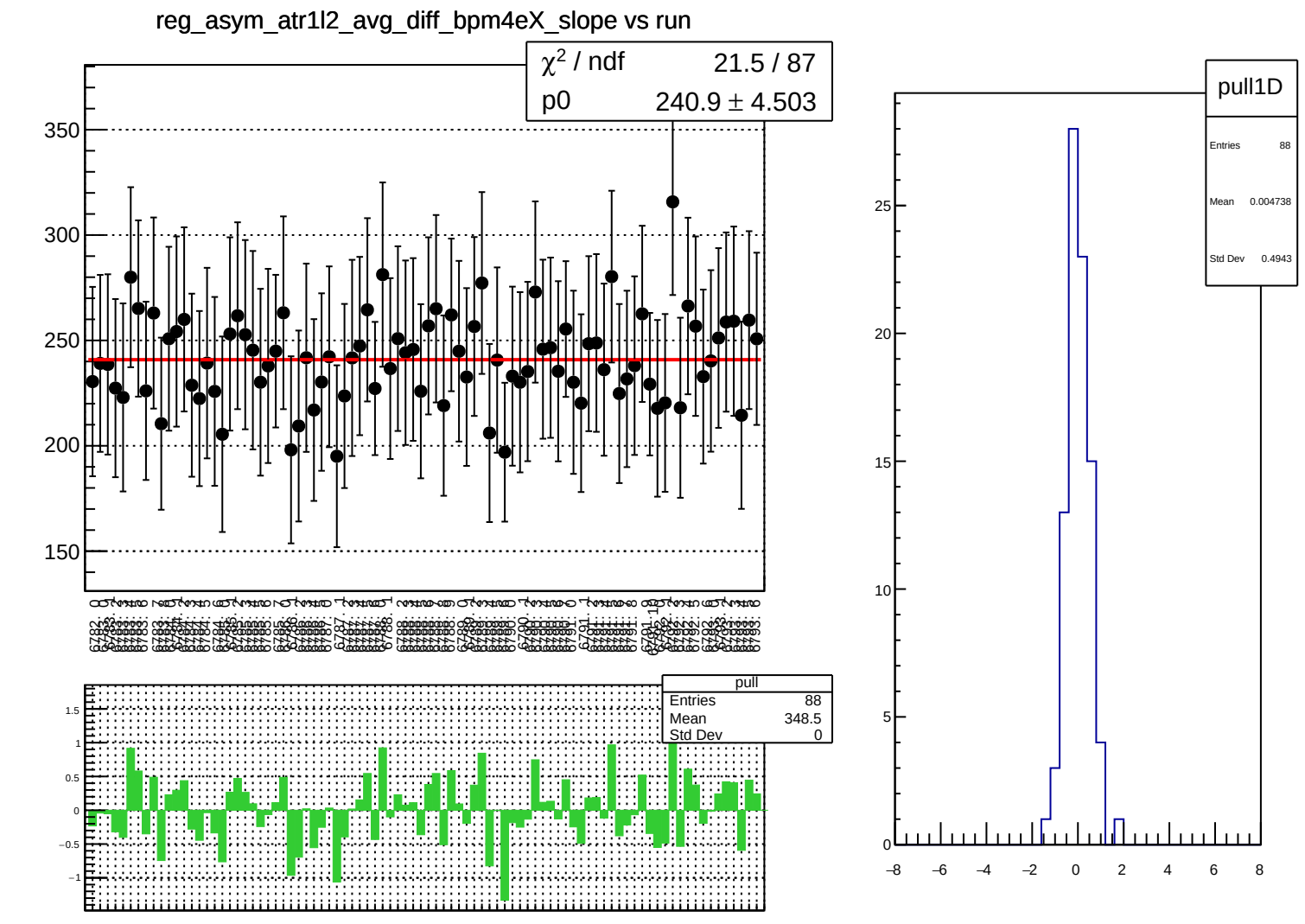

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.8 / 87
p0 114.6 ± 0.1647
118
117
116
115
114
113
112
111
pull
Entries 88
Mean 239.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

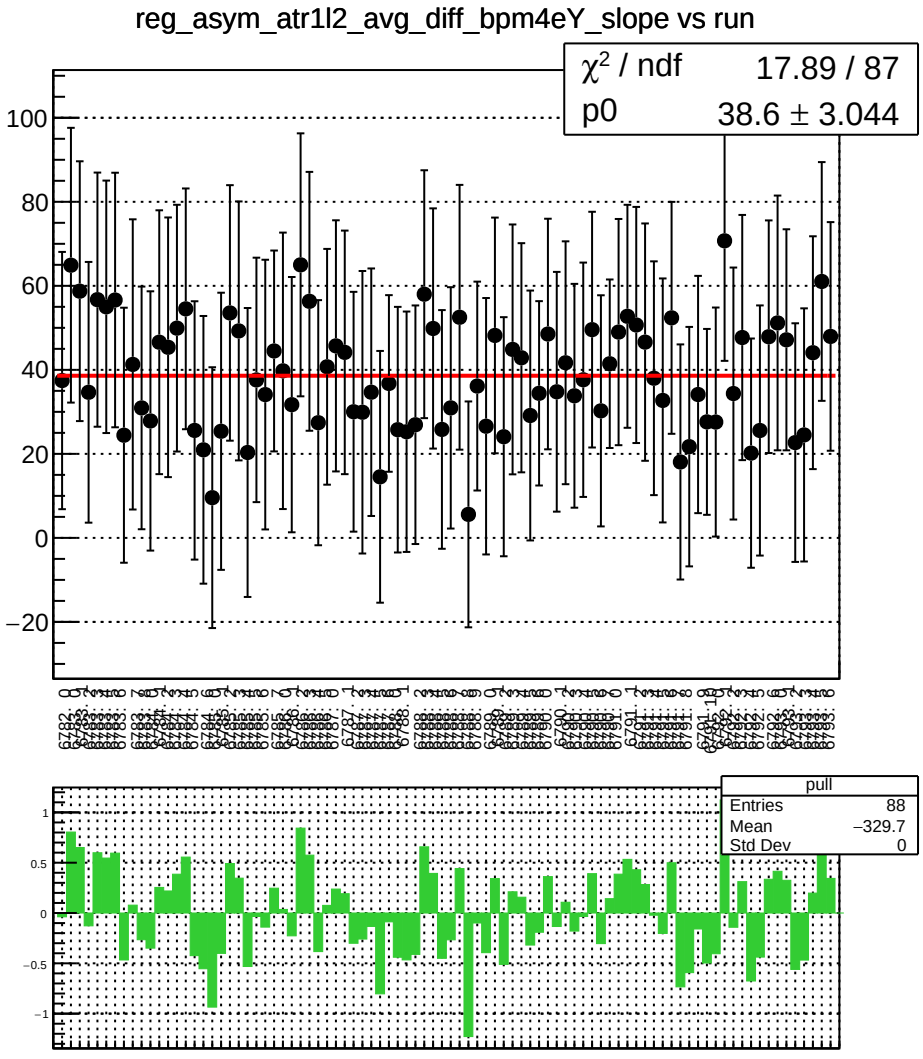

pull1D
Entries 88
Mean −0.002446
Std Dev 0.4622
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

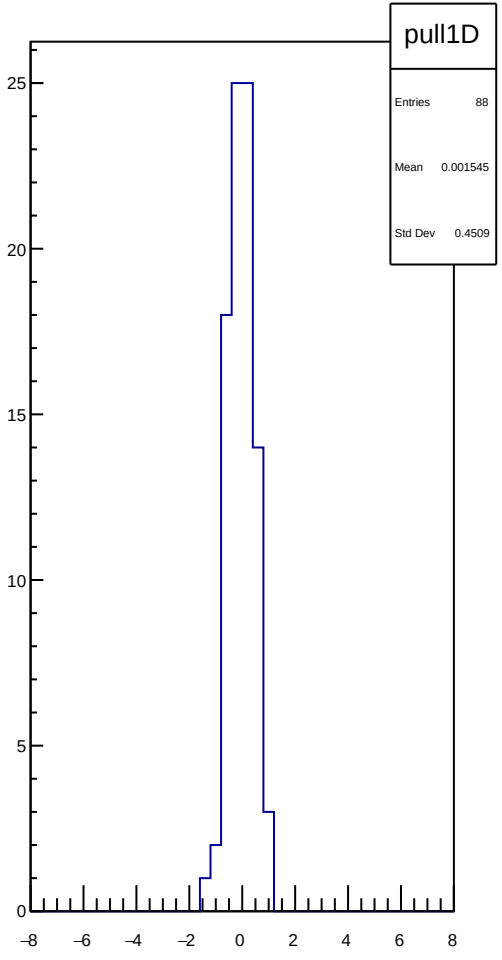

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.58 / 87
p0 −324.3 ± 4.829
−250
−300
−350
−400
−450
pull
Entries 88
Mean 308.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.004912
Std Dev 0.4951
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

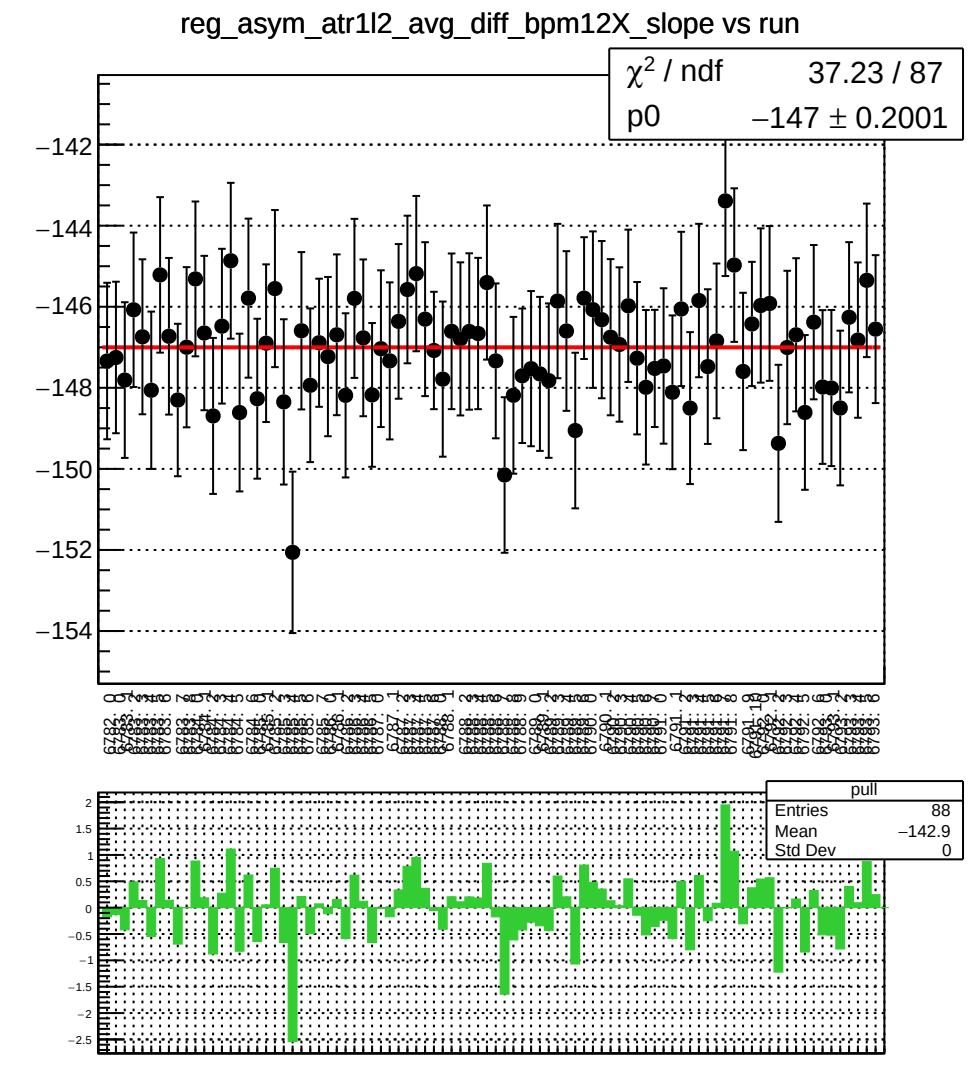

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 18.31 / 87
p0 19.65 ± 2.219
pull
Entries 88
Mean 1.144e+04
Std Dev 0

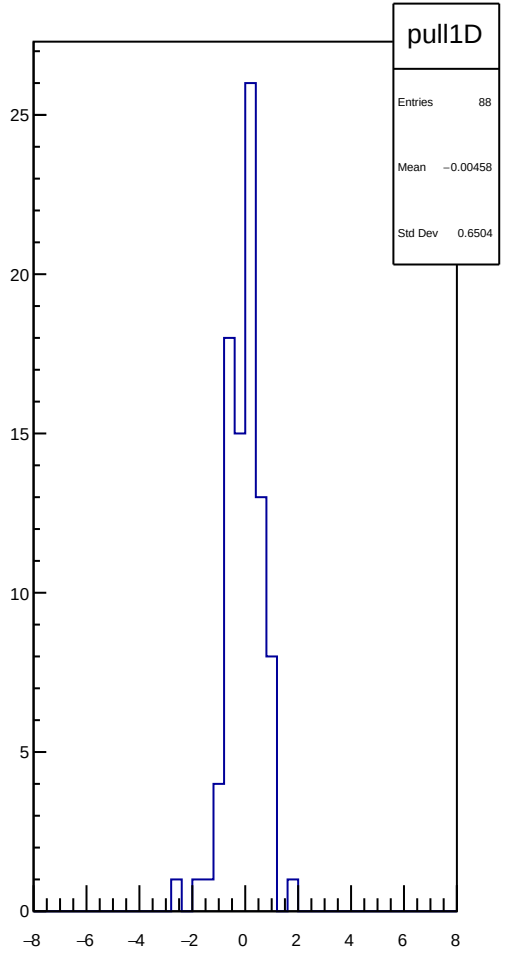

pull1D
Entries 88
Mean 2.189e−05
Std Dev 0.4562

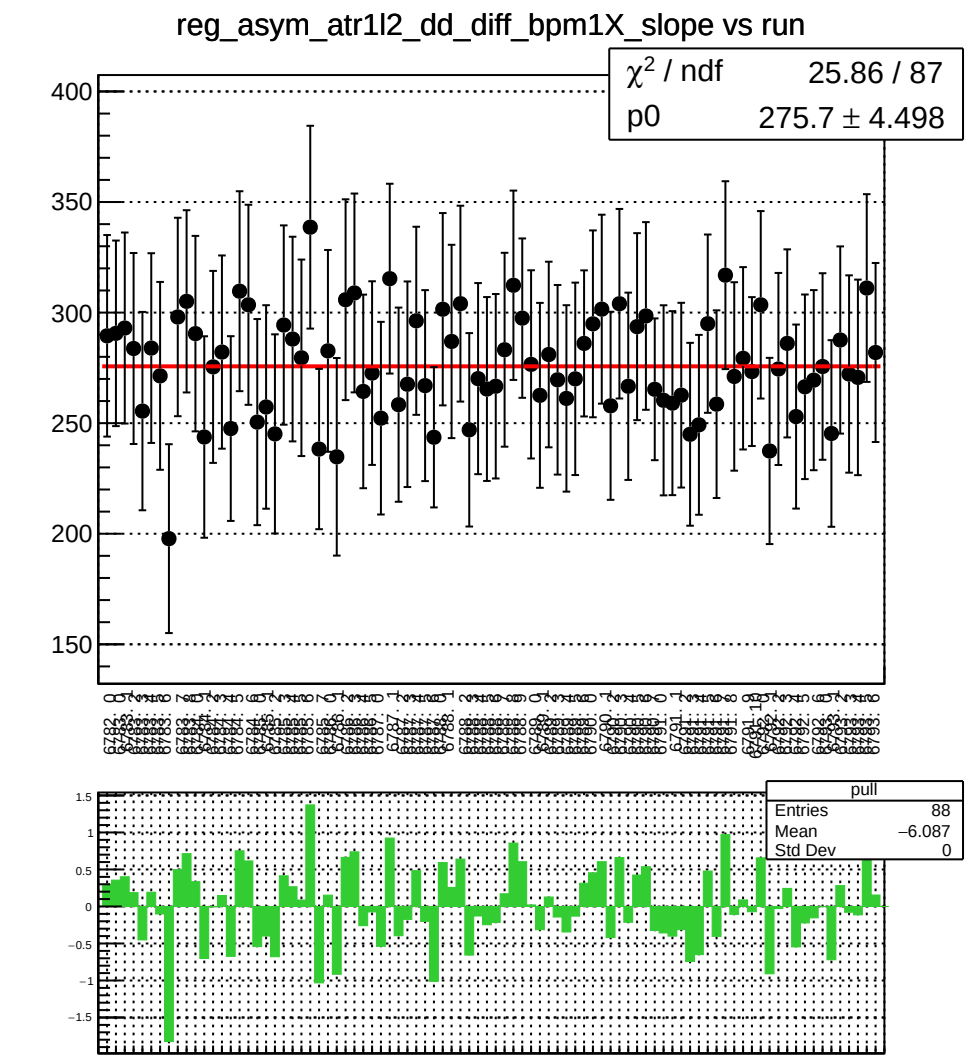

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.5 / 87
p0 240.9 ± 4.503
350
300
250
200
150
pull
Entries 88
Mean 348.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.004738
Std Dev 0.4943
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

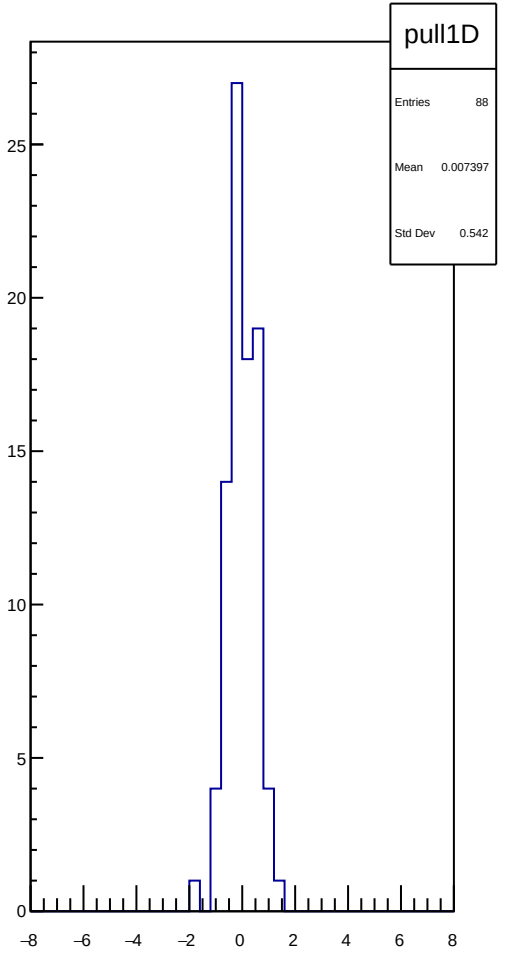

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.89 / 87
p0 38.6 ± 3.044
pull
Entries 88
Mean −329.7
Std Dev 0

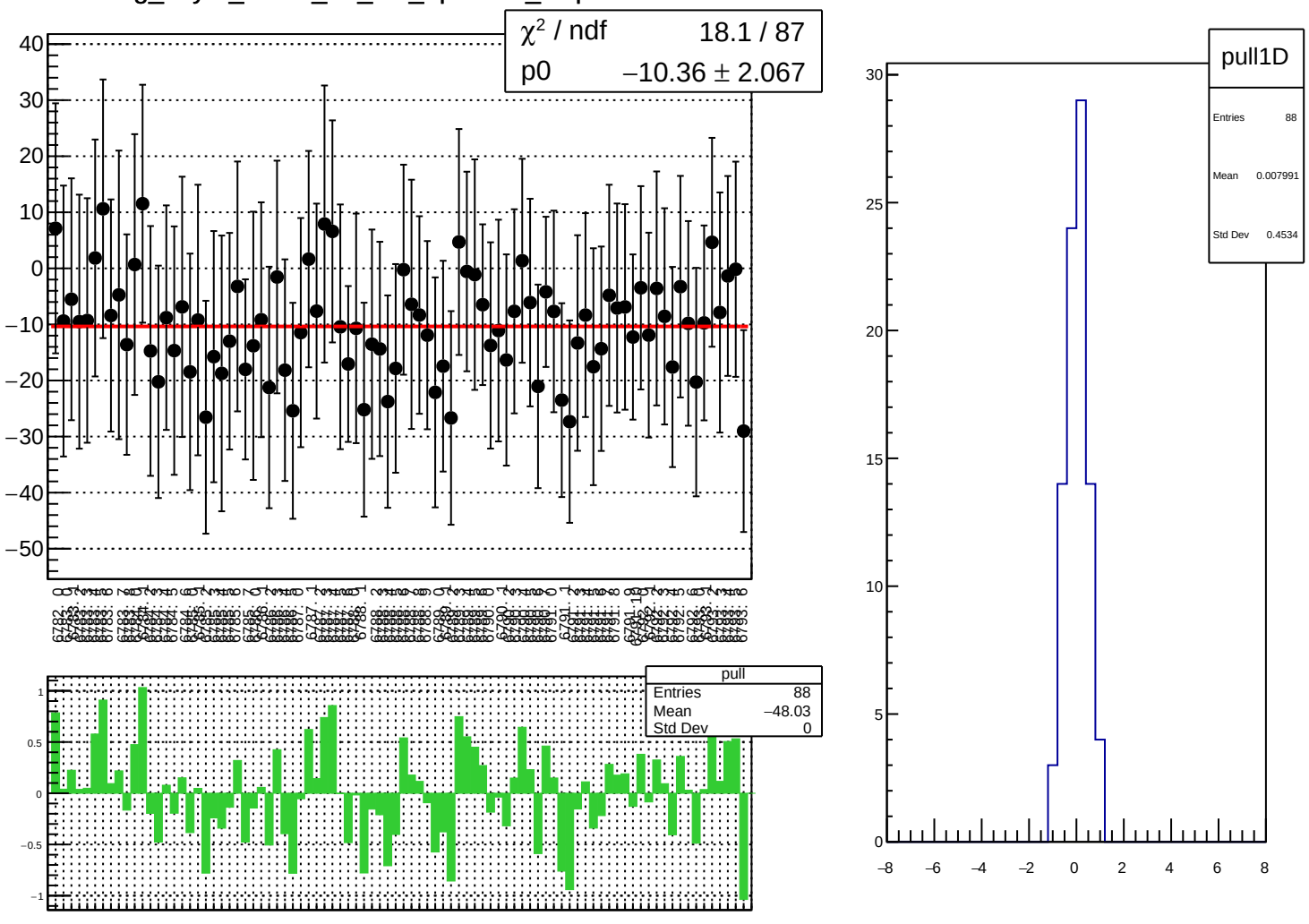

pull1D
Entries 88
Mean 0.001545
Std Dev 0.4509

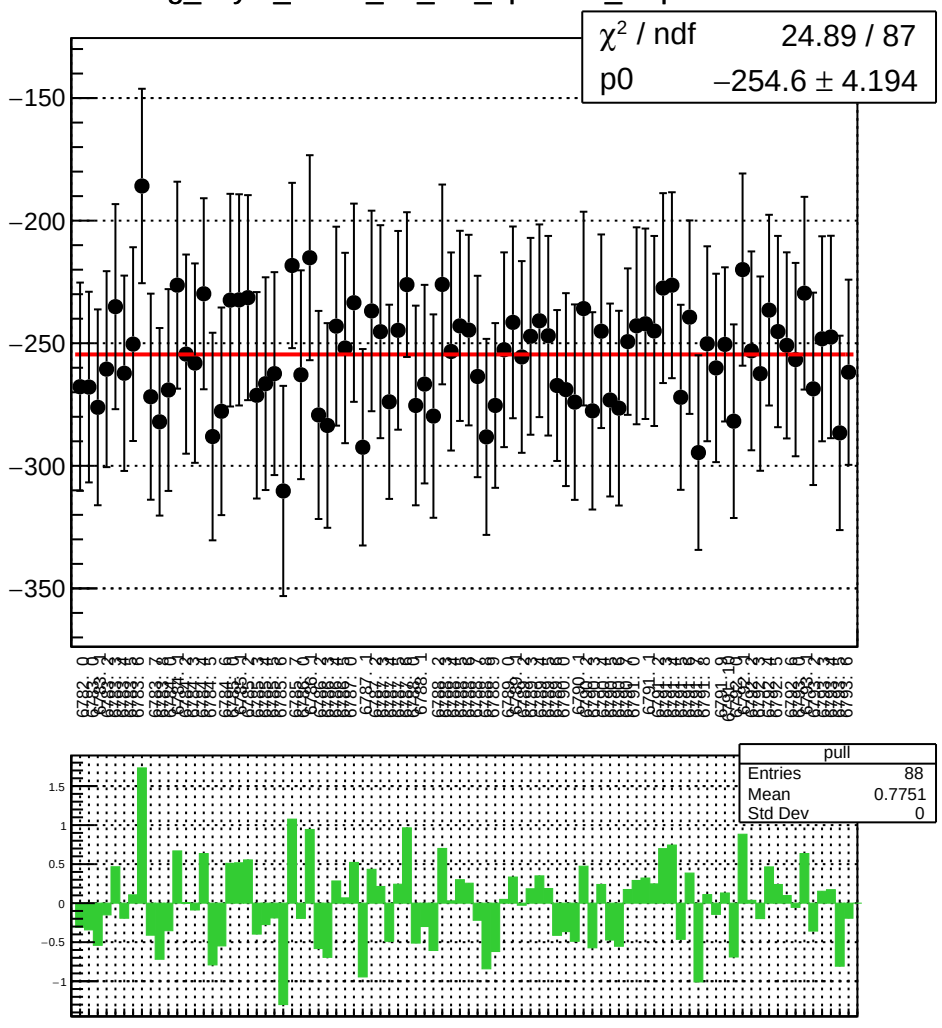

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 37.23 / 87
p0 −147 ± 0.2001
−142
−144
−146
−148
−150
−152
−154
pull
Entries 88
Mean −142.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

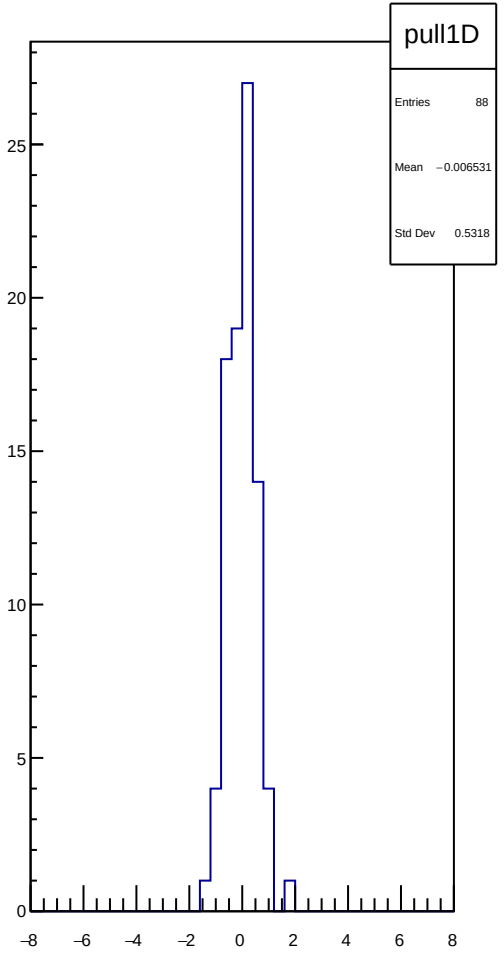

pull1D
Entries 88
Mean −0.00458
Std Dev 0.6504
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

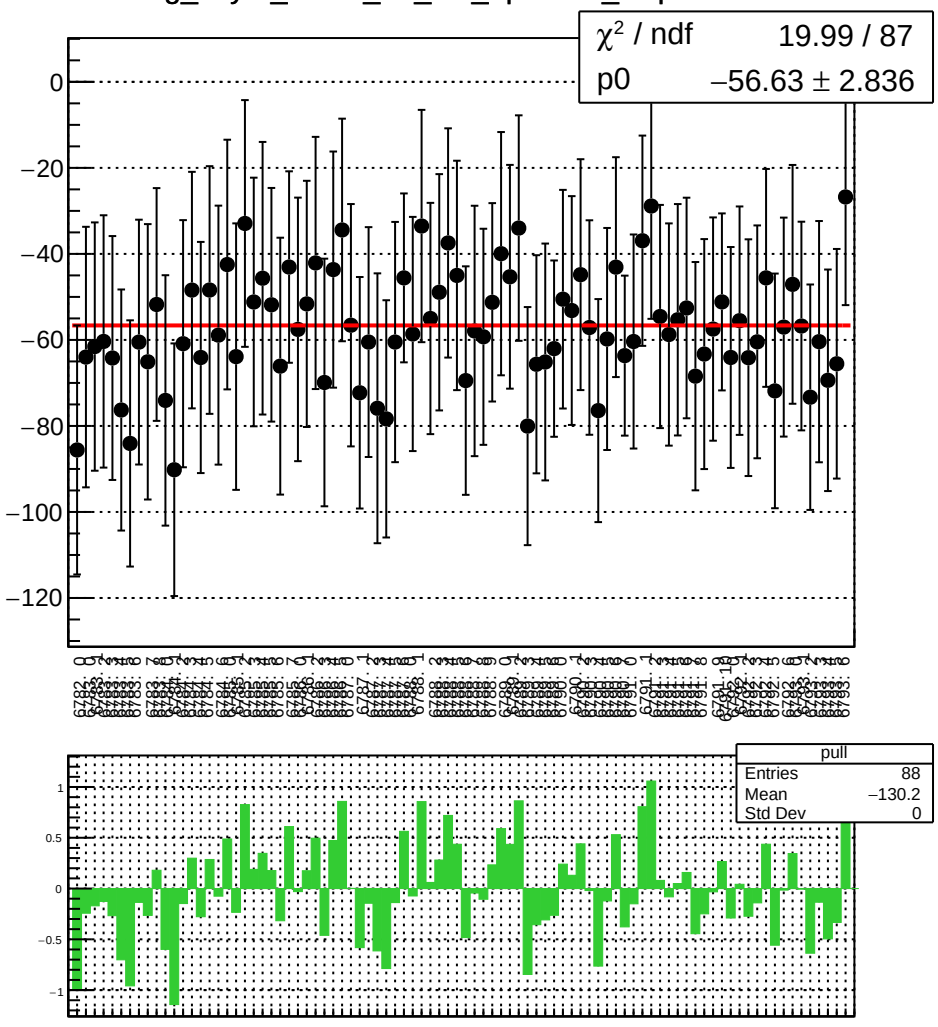

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 25.86 / 87
p0 275.7 ± 4.498
400
350
300
250
200
150
pull
Entries 88
Mean −6.087
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

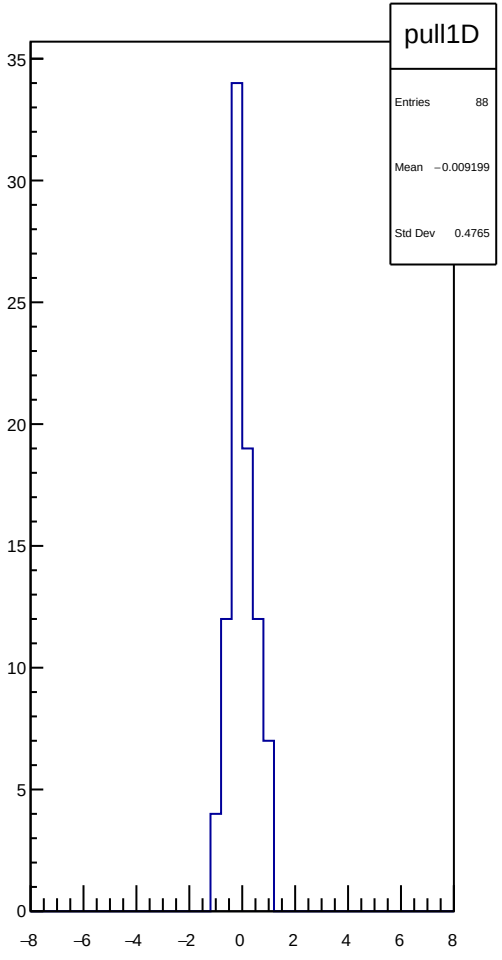

pull1D
Entries 88
Mean 0.007397
Std Dev 0.542
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

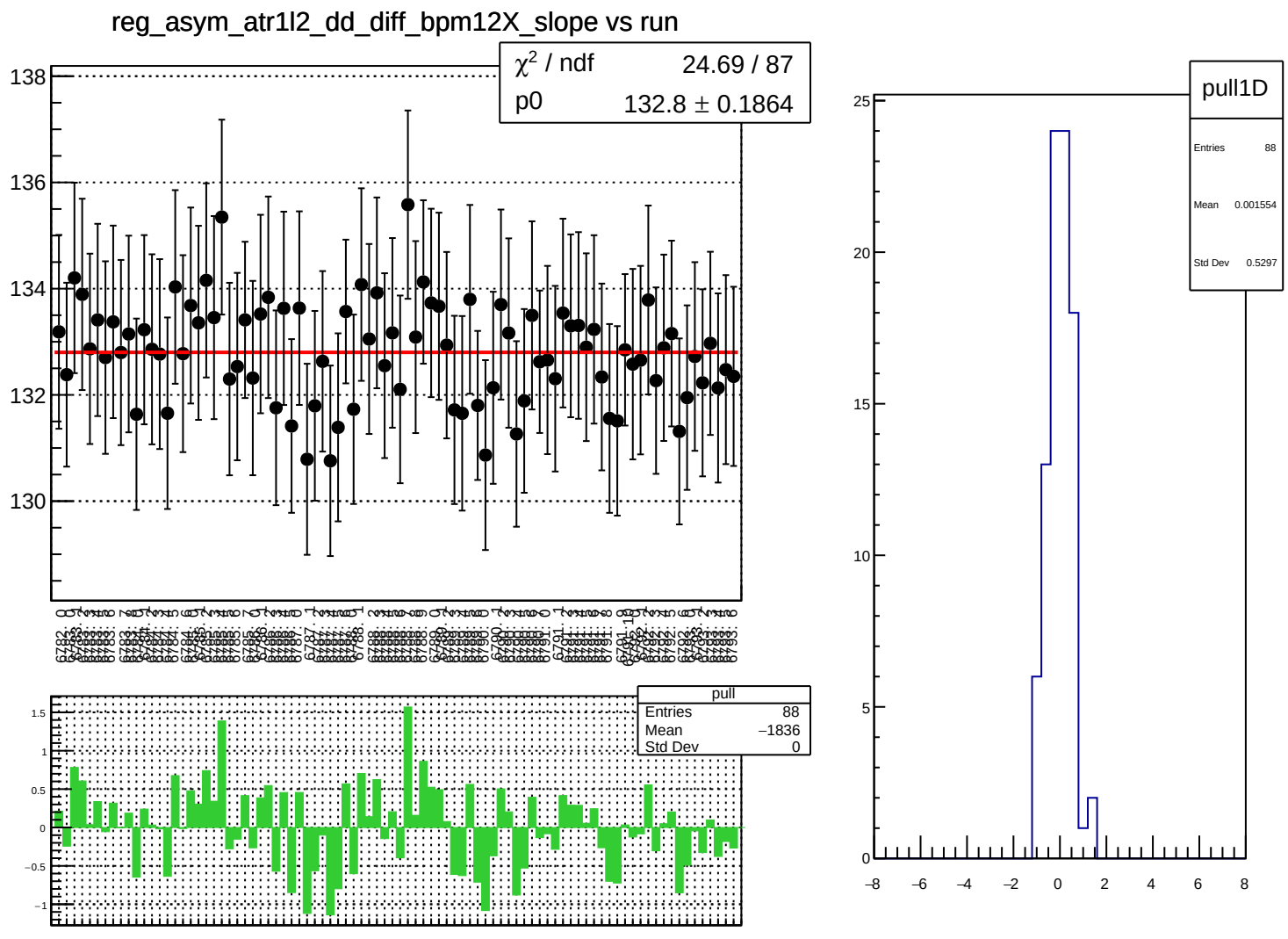

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.1 / 87
p0 −10.36 ± 2.067
pull
Entries 88
Mean −48.03
Std Dev 0
pull1D
Entries 88
Mean 0.007991
Std Dev 0.4534

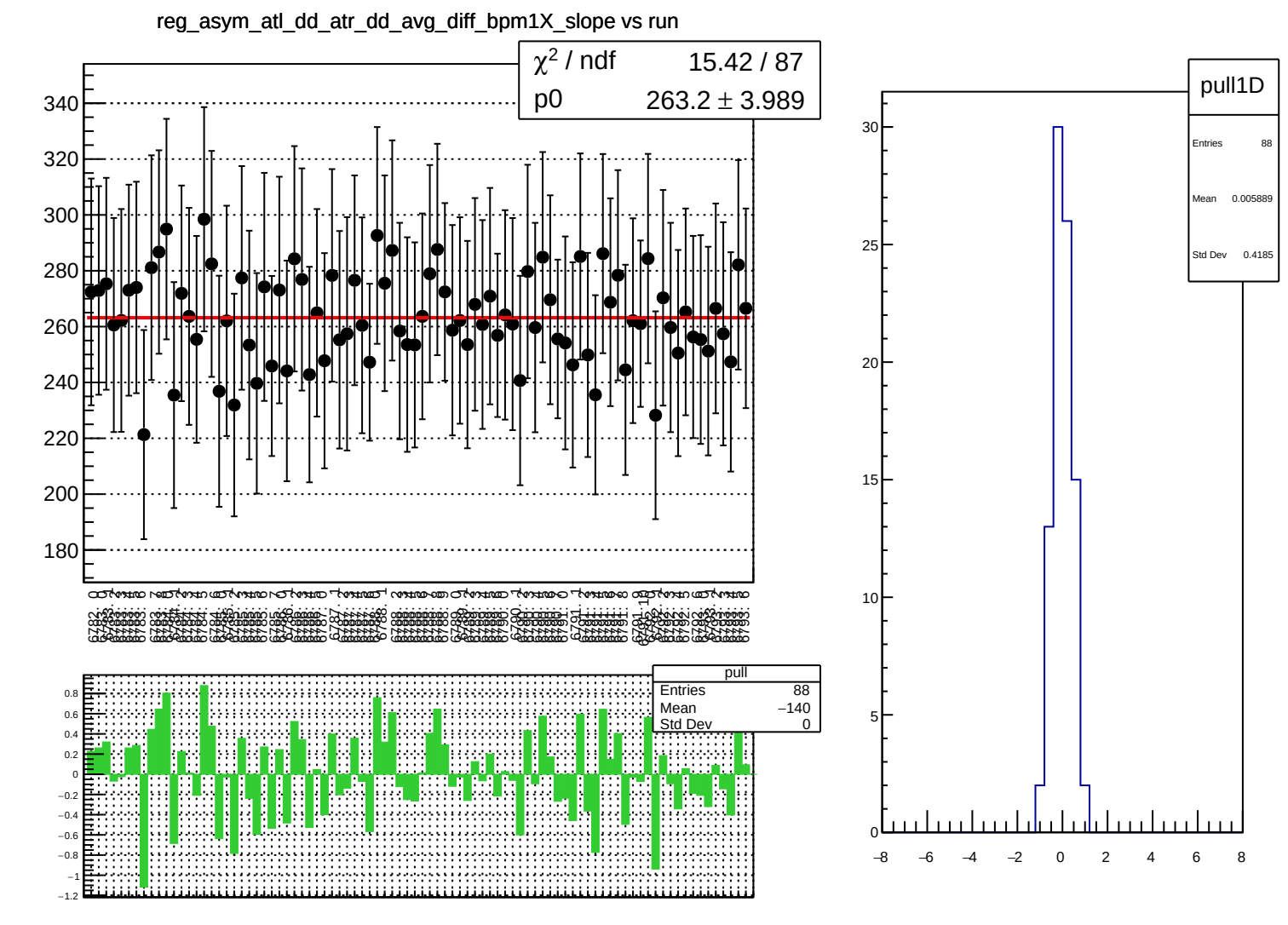

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.89 / 87
p0 −254.6 ± 4.194
−150
−200
−250
−300
−350
pull
Entries 88
Mean 0.7751
Std Dev 0
1.5
1
0.5
0
−0.5
−1

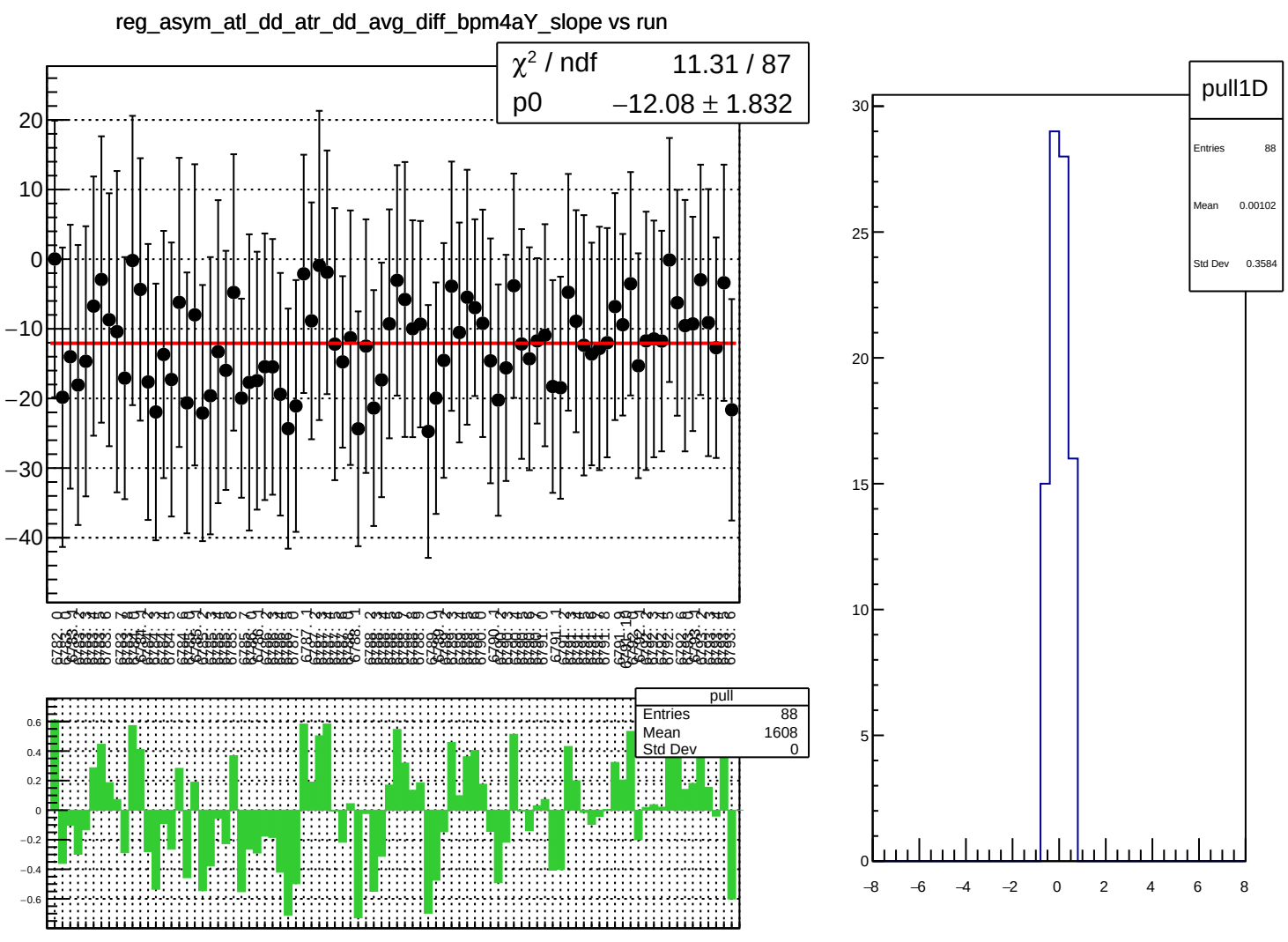

pull1D
Entries 88
Mean −0.006531
Std Dev 0.5318
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

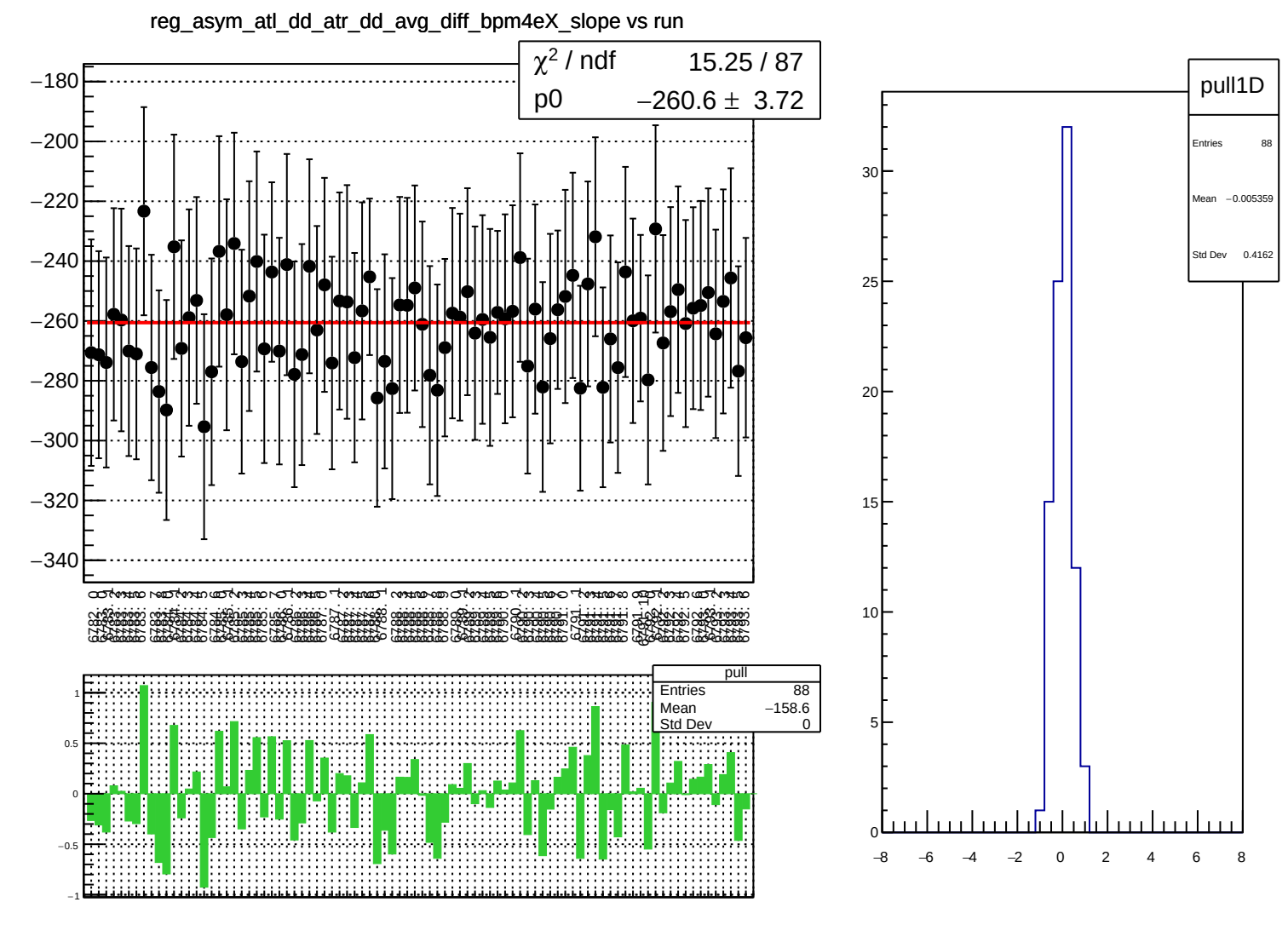

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.99 / 87
p0 −56.63 ± 2.836
pull
Entries 88
Mean −130.2
Std Dev 0

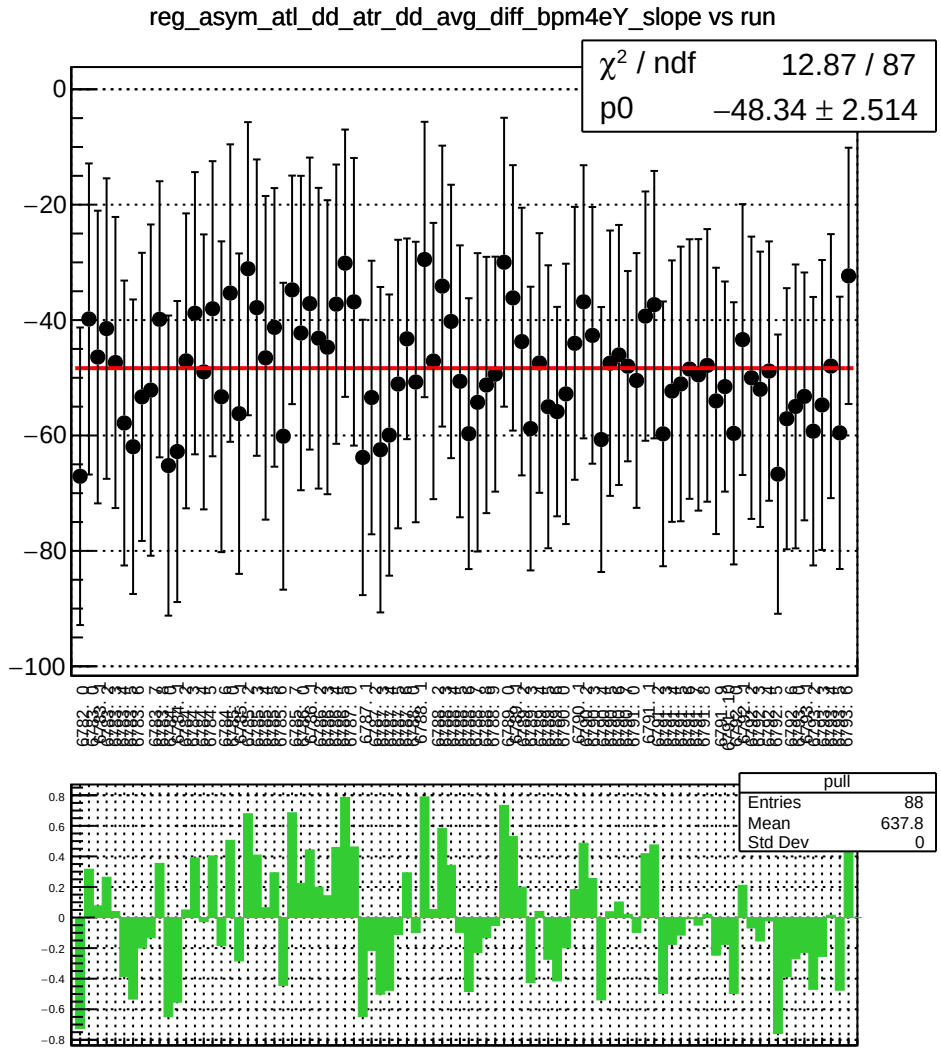

pull1D
Entries 88
Mean −0.009199
Std Dev 0.4765

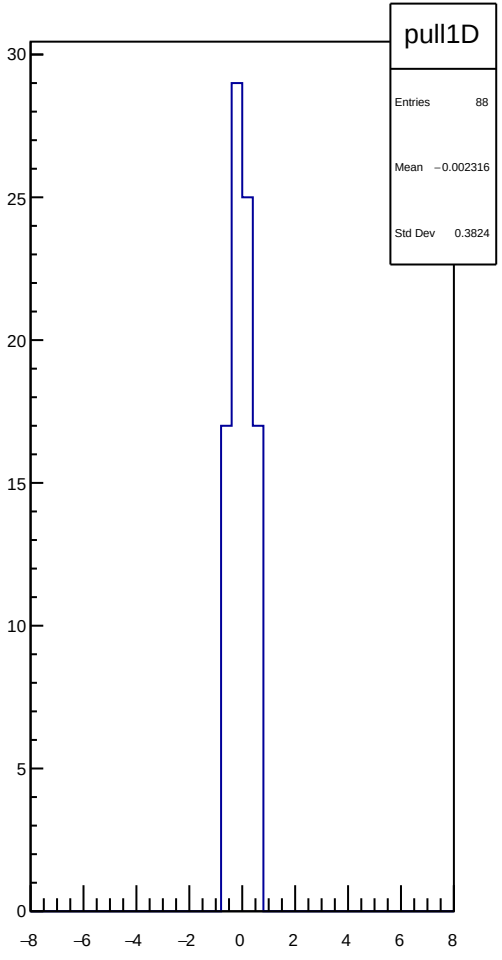

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 24.69 / 87
p0 132.8 ± 0.1864
138
136
134
132
130
pull
Entries 88
Mean −1836
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.001554
Std Dev 0.5297
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

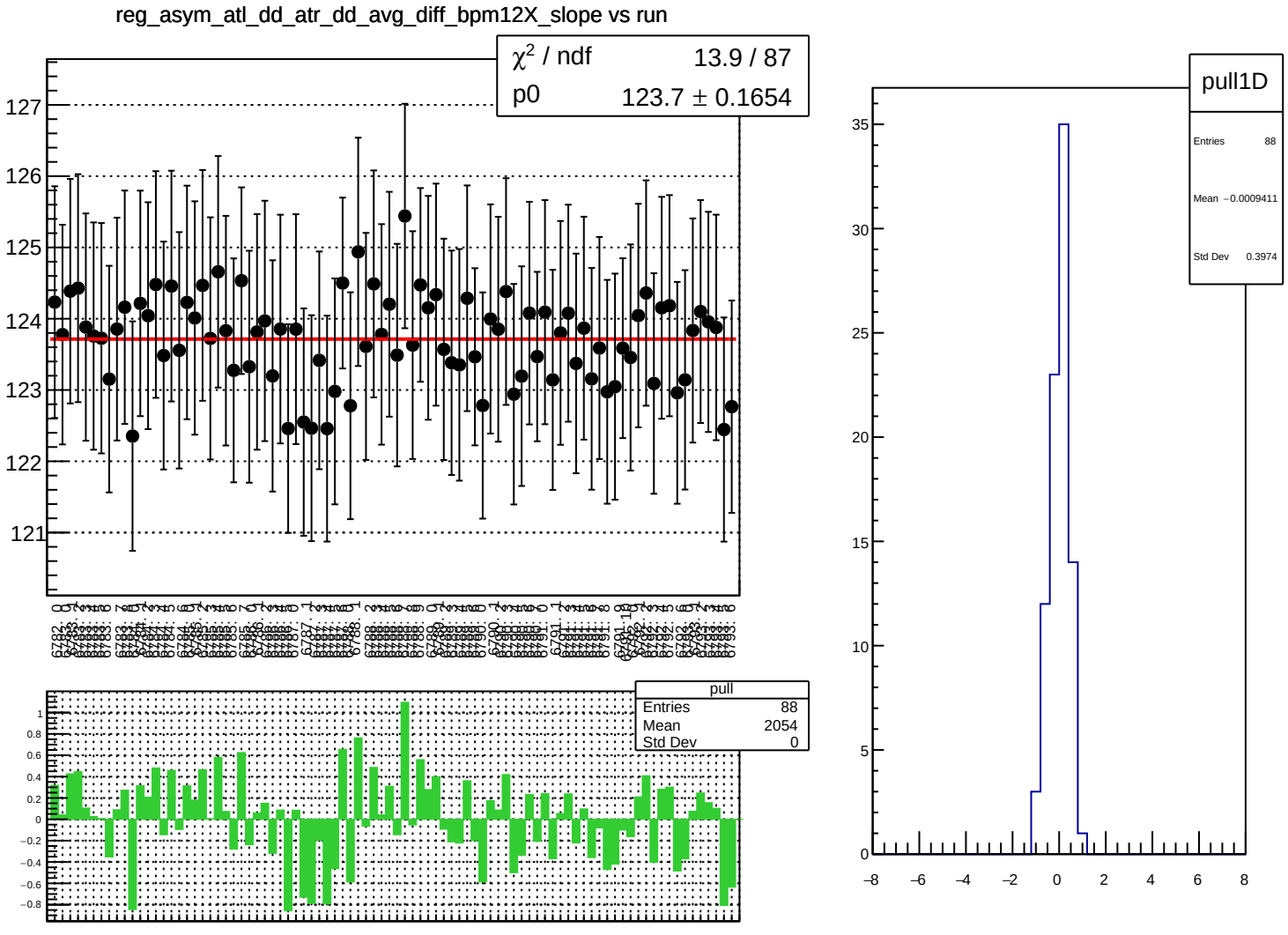

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.42 / 87
p0 263.2 ± 3.989
pull
Entries 88
Mean −140
Std Dev 0
pull1D
Entries 88
Mean 0.005889
Std Dev 0.4185

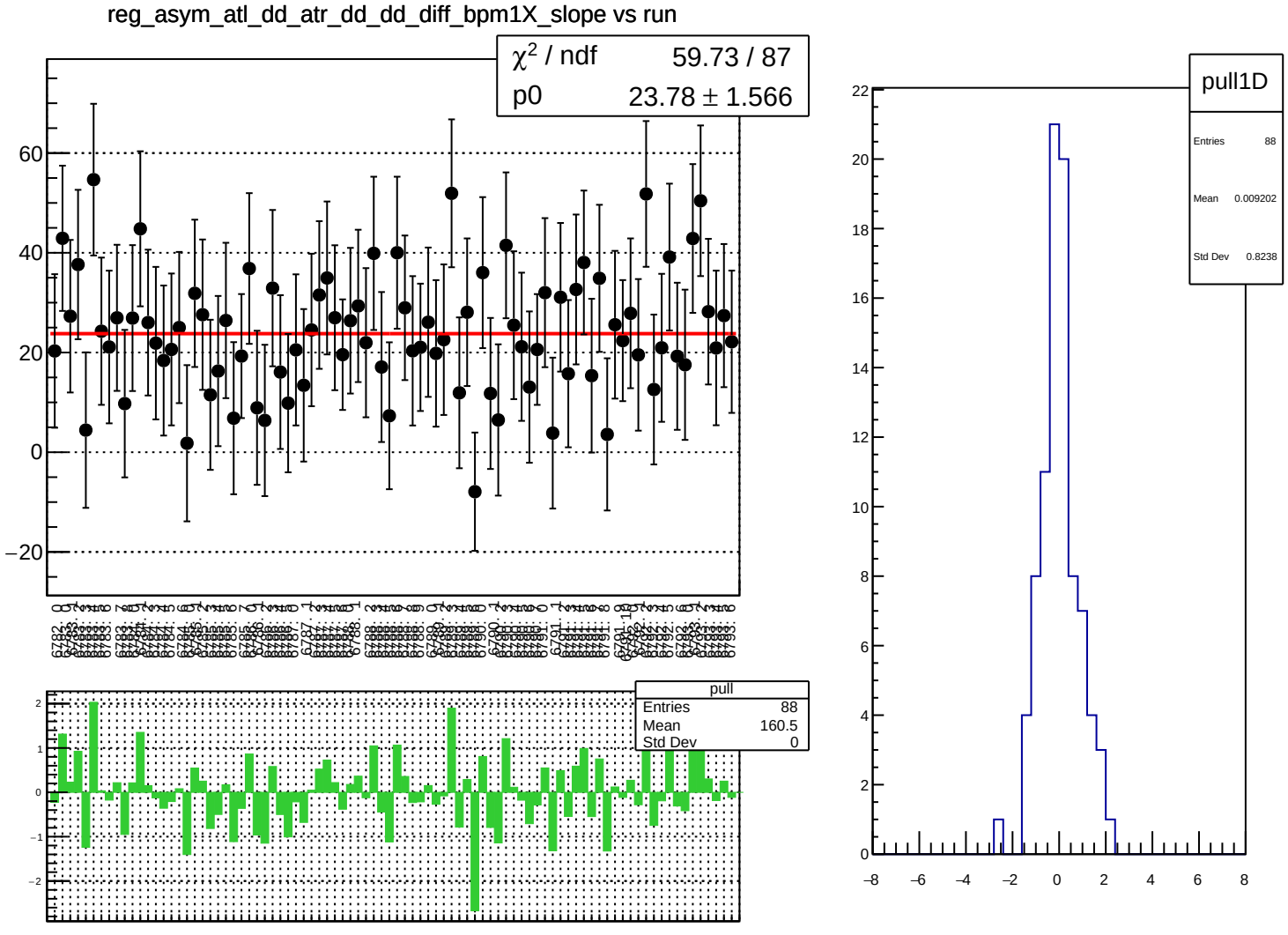

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.31 / 87
p0 −12.08 ± 1.832
pull
Entries 88
Mean 1608
Std Dev 0
pull1D
Entries 88
Mean 0.00102
Std Dev 0.3584

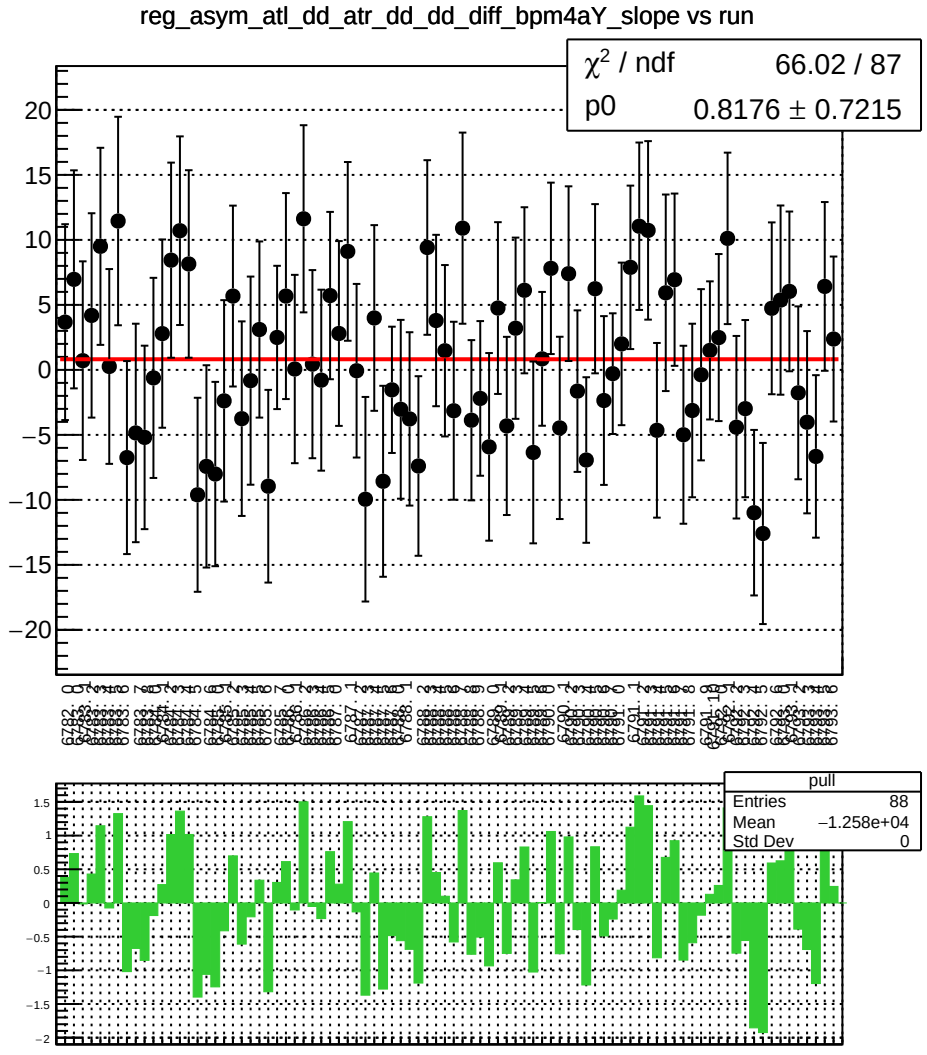

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.25 / 87
p0 −260.6 ± 3.72
pull
Entries 88
Mean −158.6
Std Dev 0
pull1D
Entries 88
Mean −0.005359
Std Dev 0.4162

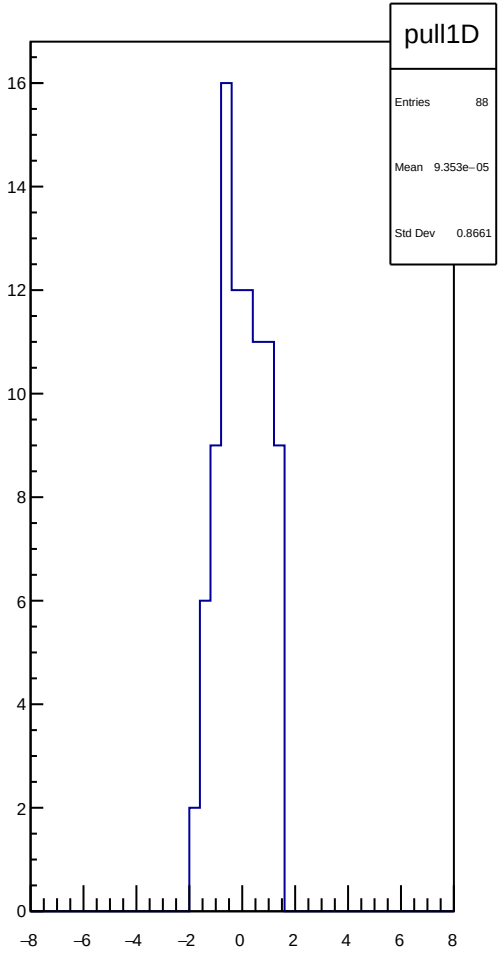

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.87 / 87
p0 −48.34 ± 2.514
pull
Entries 88
Mean 637.8
Std Dev 0

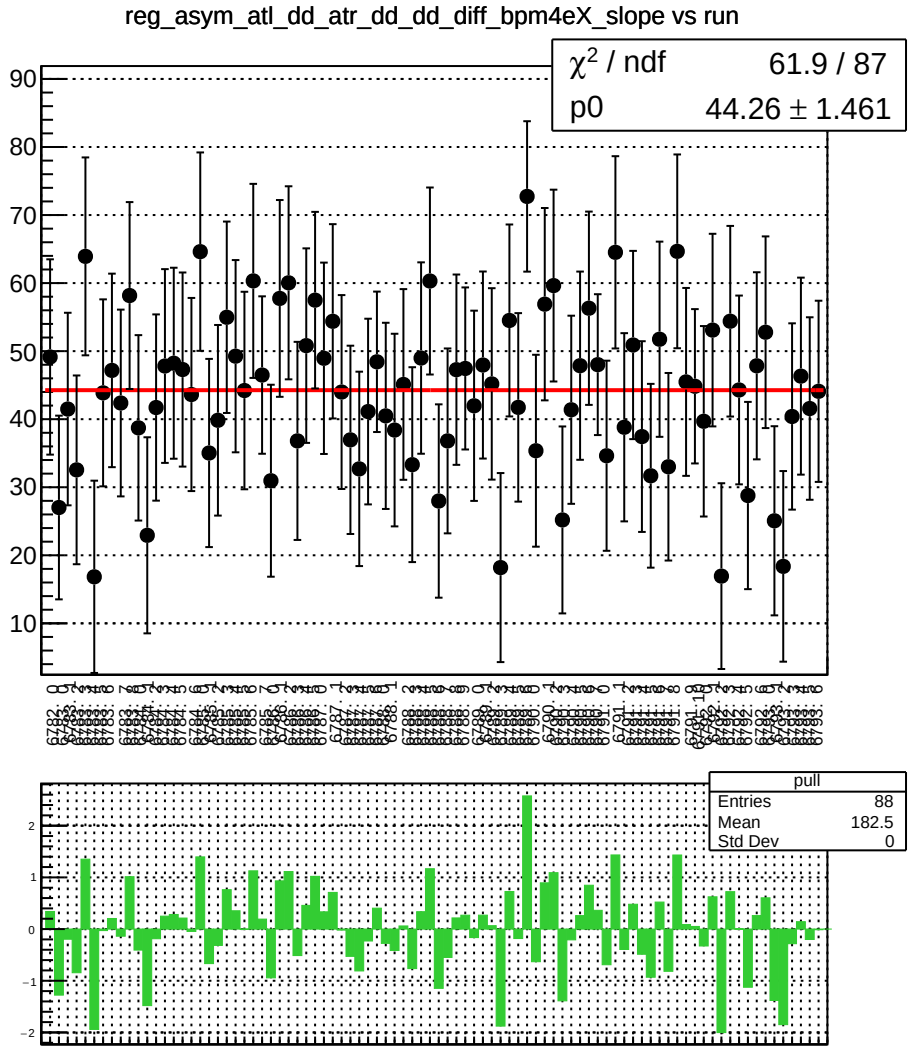

pull1D
Entries 88
Mean −0.002316
Std Dev 0.3824

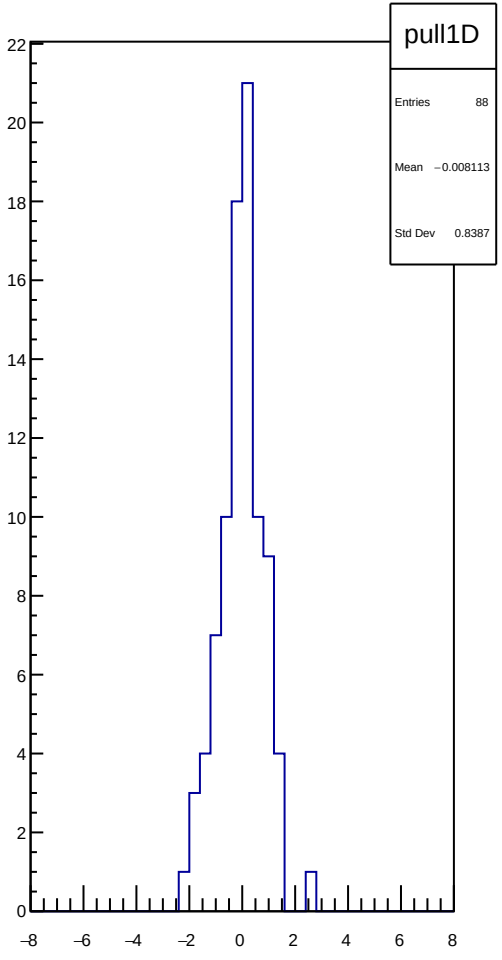

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 13.9 / 87
p0 123.7 ± 0.1654
127
126
125
124
123
122
121
pull
Entries 88
Mean 2054
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.0009411
Std Dev 0.3974
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

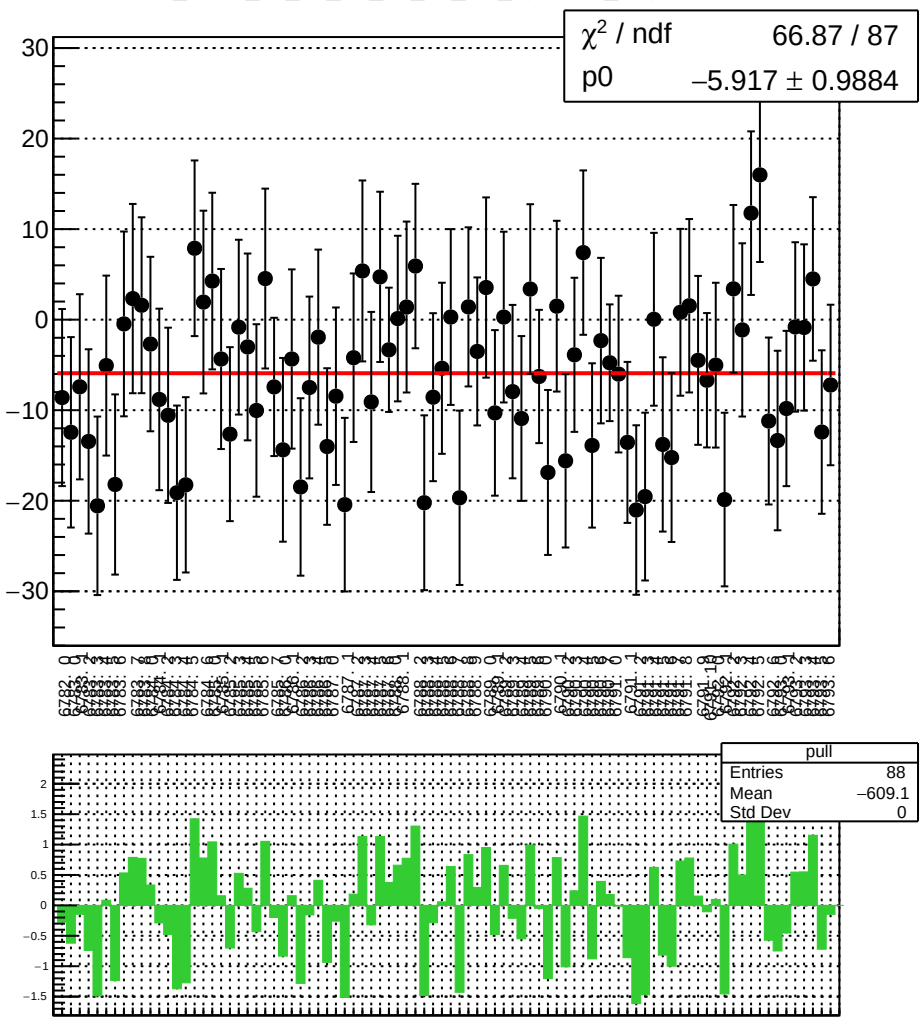

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 59.73 / 87
p0 23.78 ± 1.566
pull
Entries 88
Mean 160.5
Std Dev 0
pull1D
Entries 88
Mean 0.009202
Std Dev 0.8238

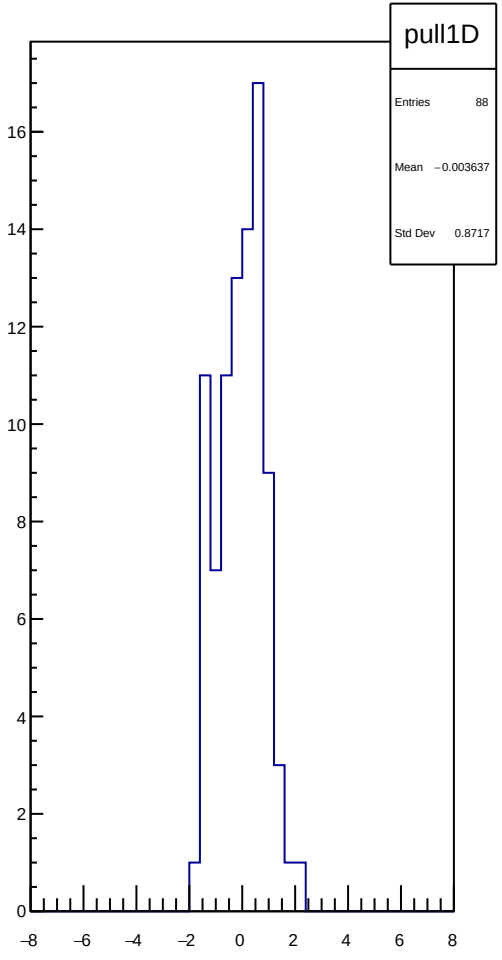

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.02 / 87
p0 0.8176 ± 0.7215
pull
Entries 88
Mean −1.258e+04
Std Dev 0

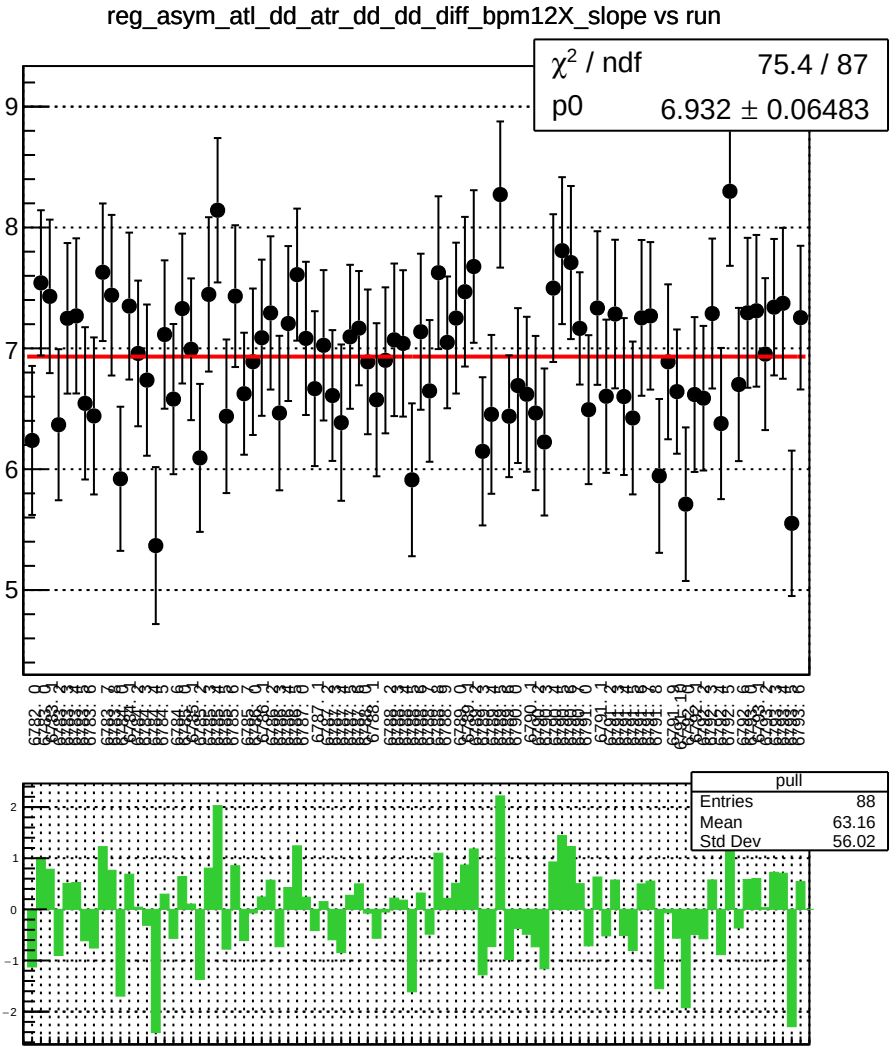

pull1D
Entries 88
Mean 9.353e−05
Std Dev 0.8661

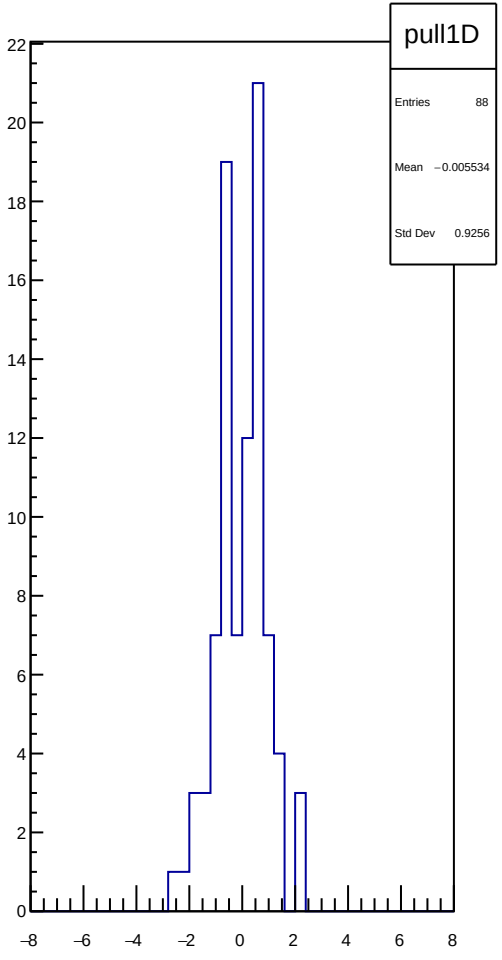

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.9 / 87
p0 44.26 ± 1.461
pull
Entries 88
Mean 182.5
Std Dev 0

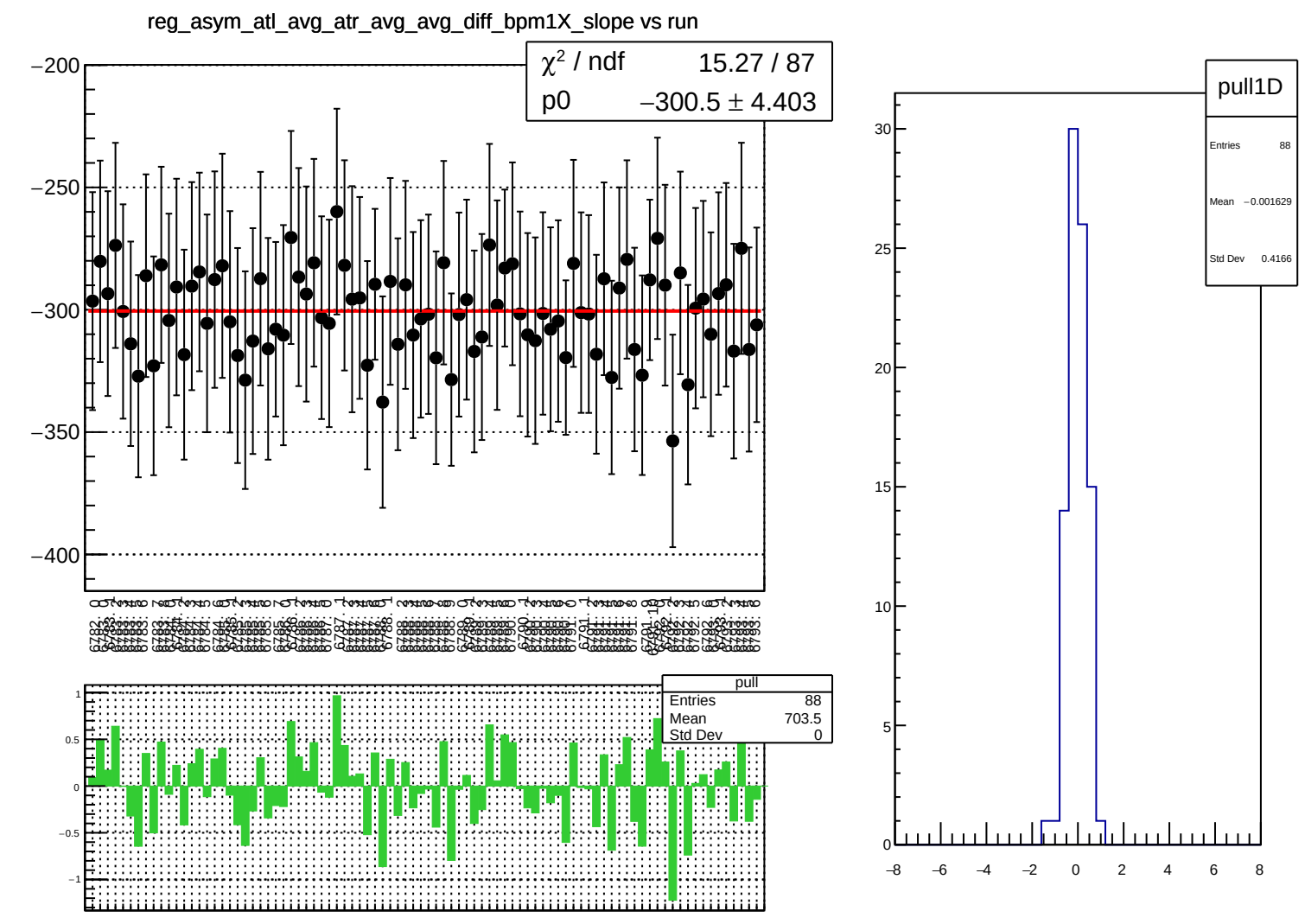

pull1D
Entries 88
Mean −0.008113
Std Dev 0.8387

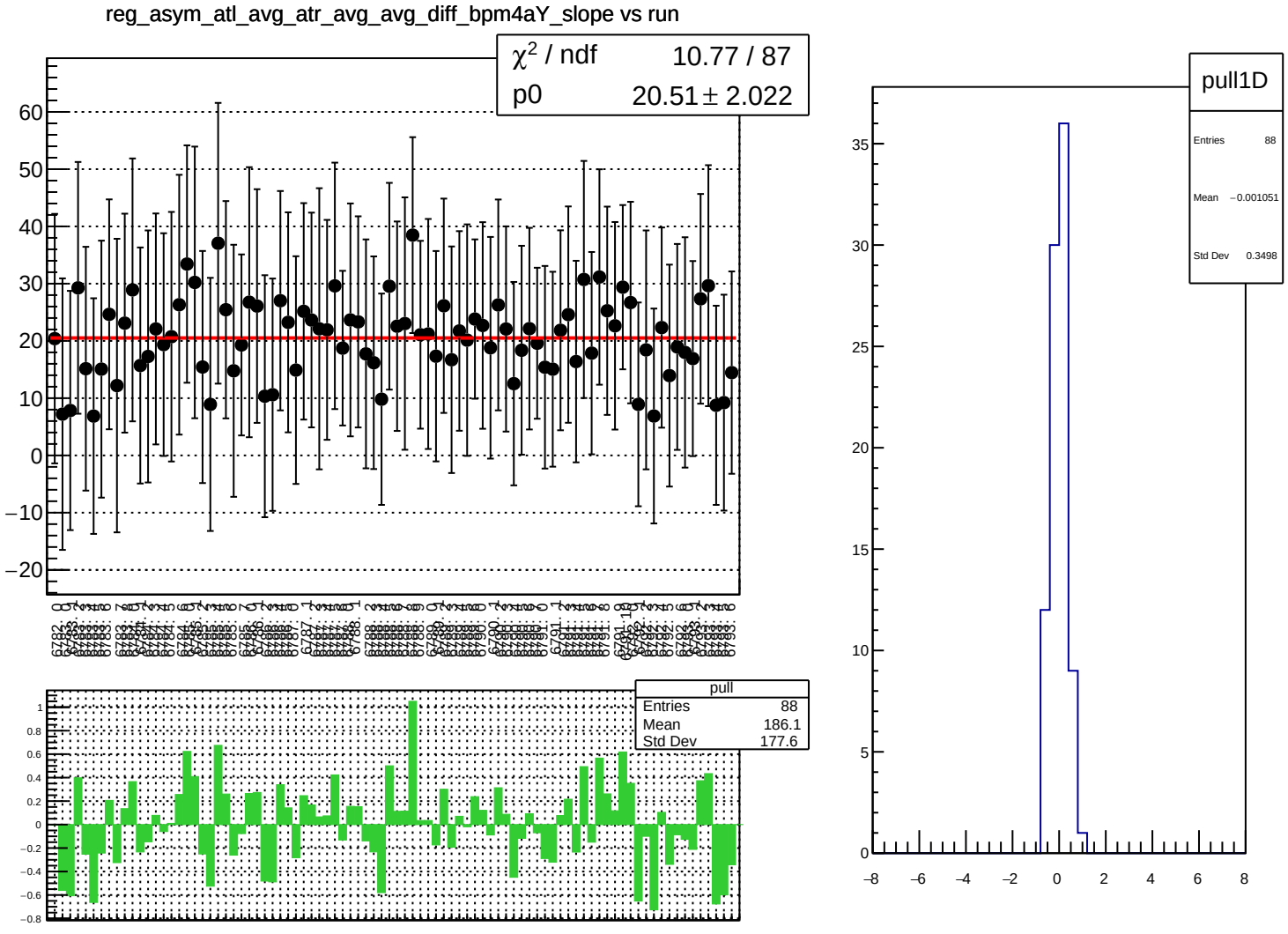

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.87 / 87
p0 −5.917 ± 0.9884
pull
Entries 88
Mean −609.1
Std Dev 0

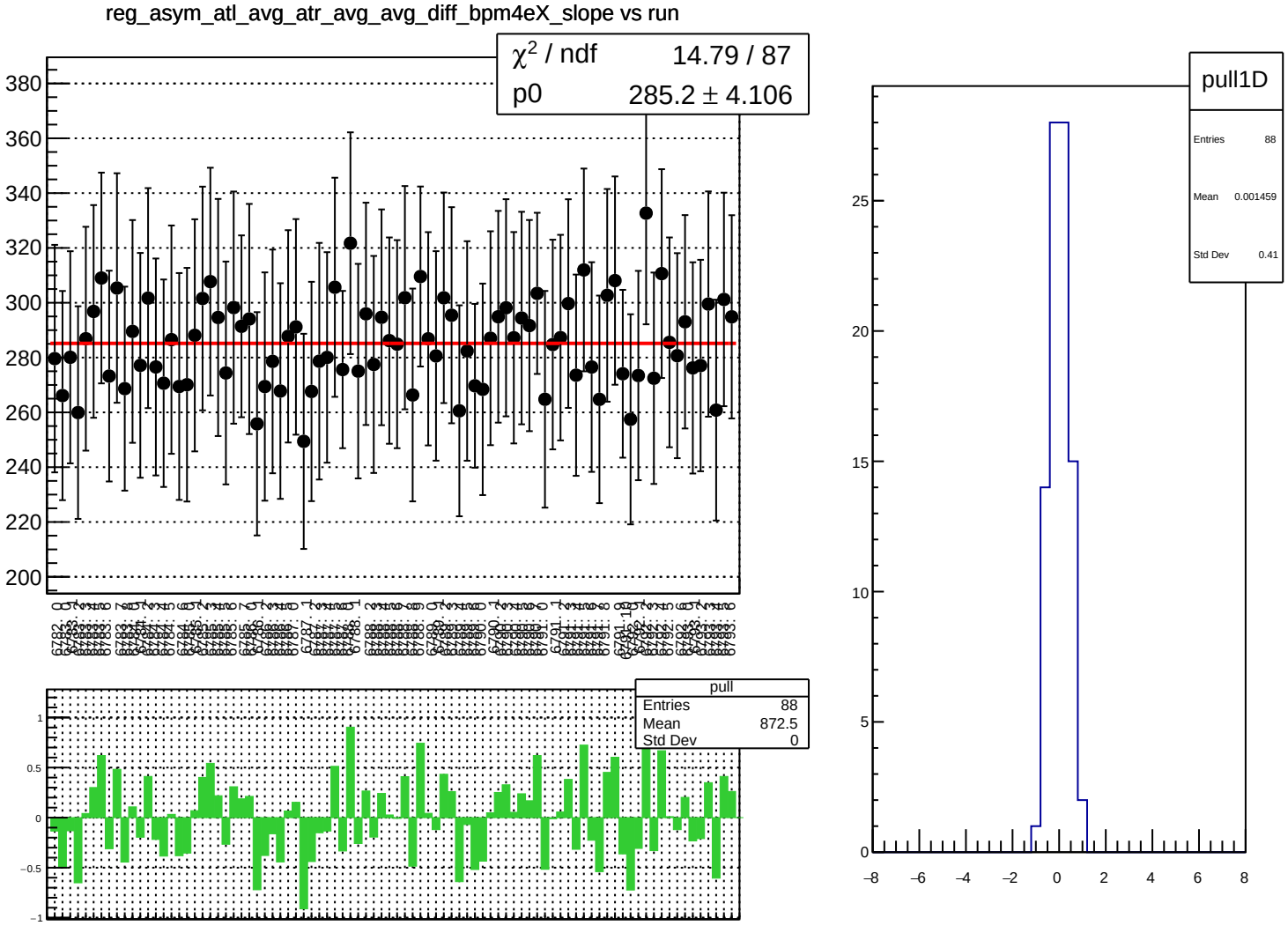

pull1D
Entries 88
Mean −0.003637
Std Dev 0.8717

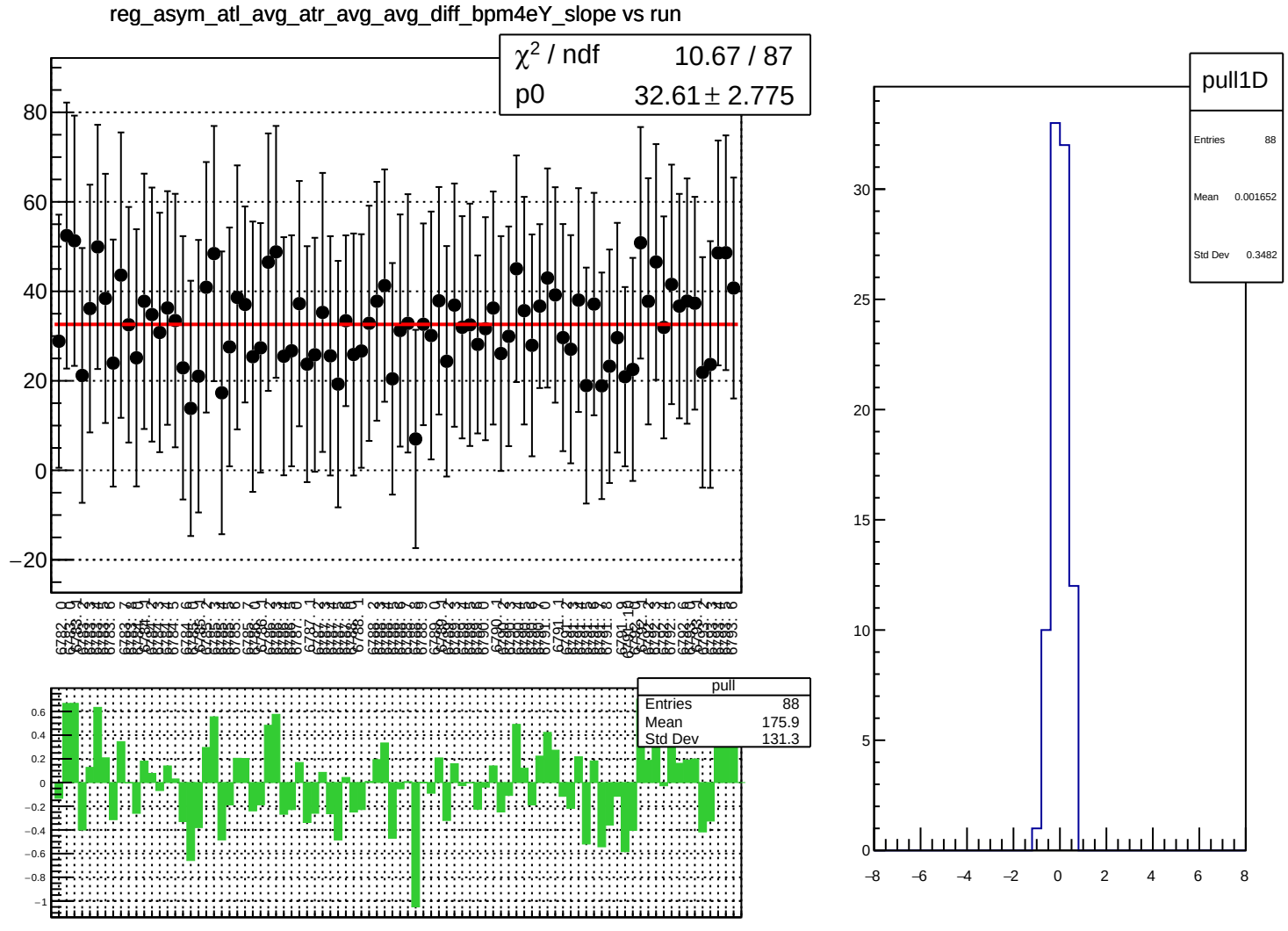

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 75.4 / 87
p0 6.932 ± 0.06483
pull
Entries 88
Mean 63.16
Std Dev 56.02

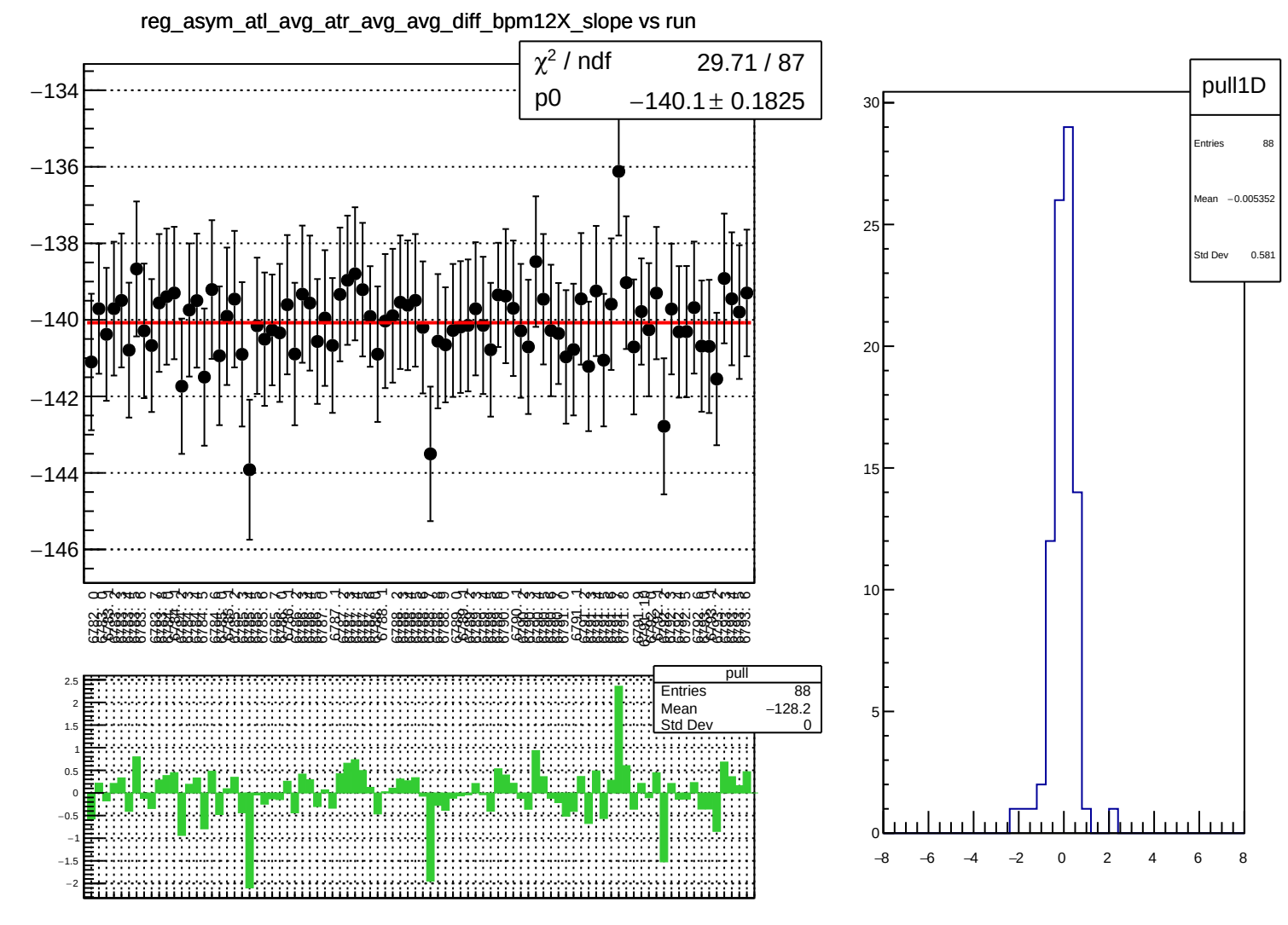

pull1D
Entries 88
Mean −0.005534
Std Dev 0.9256

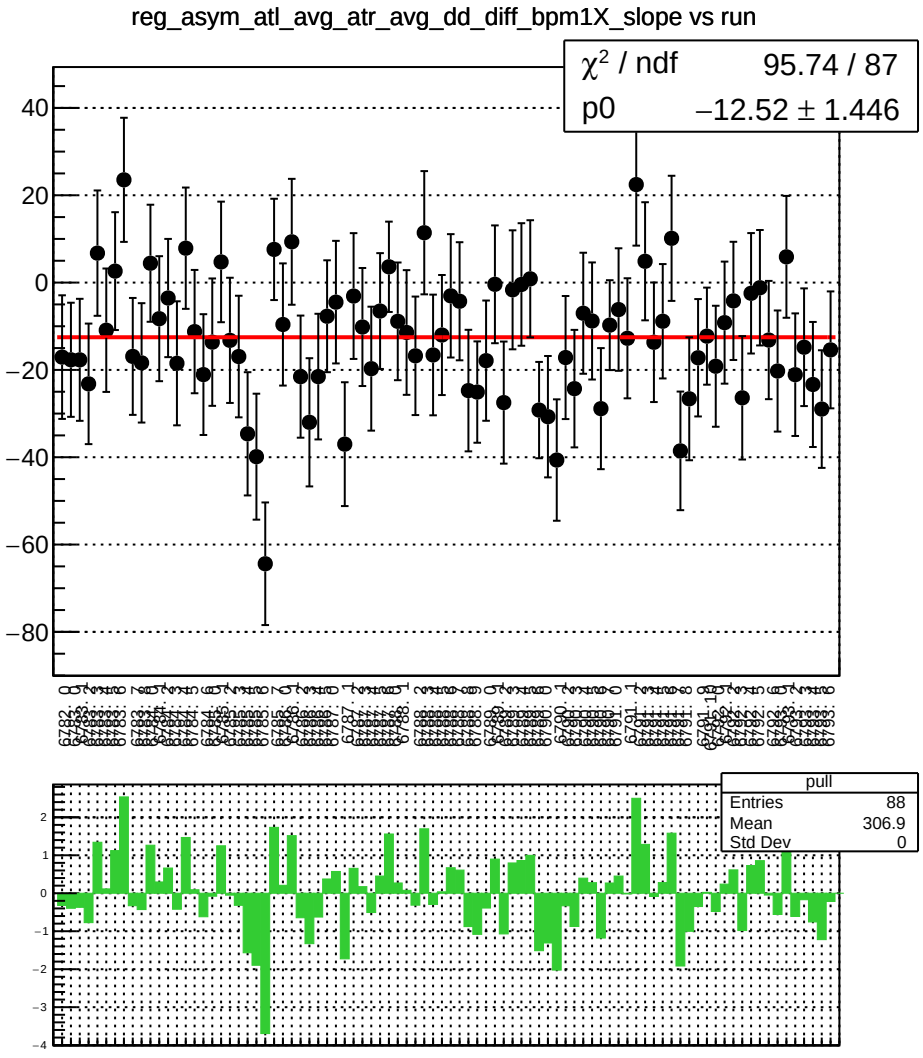

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.27 / 87
p0 −300.5 ± 4.403
−200
−250
−300
−350
−400
pull
Entries 88
Mean 703.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.001629
Std Dev 0.4166
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

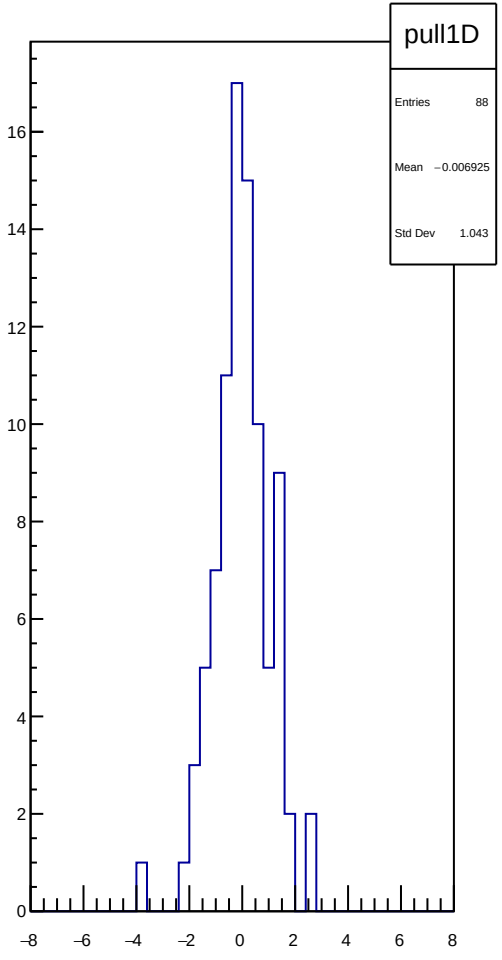

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 87
p0 20.51 ± 2.022
pull
Entries 88
Mean 186.1
Std Dev 177.6
pull1D
Entries 88
Mean −0.001051
Std Dev 0.3498

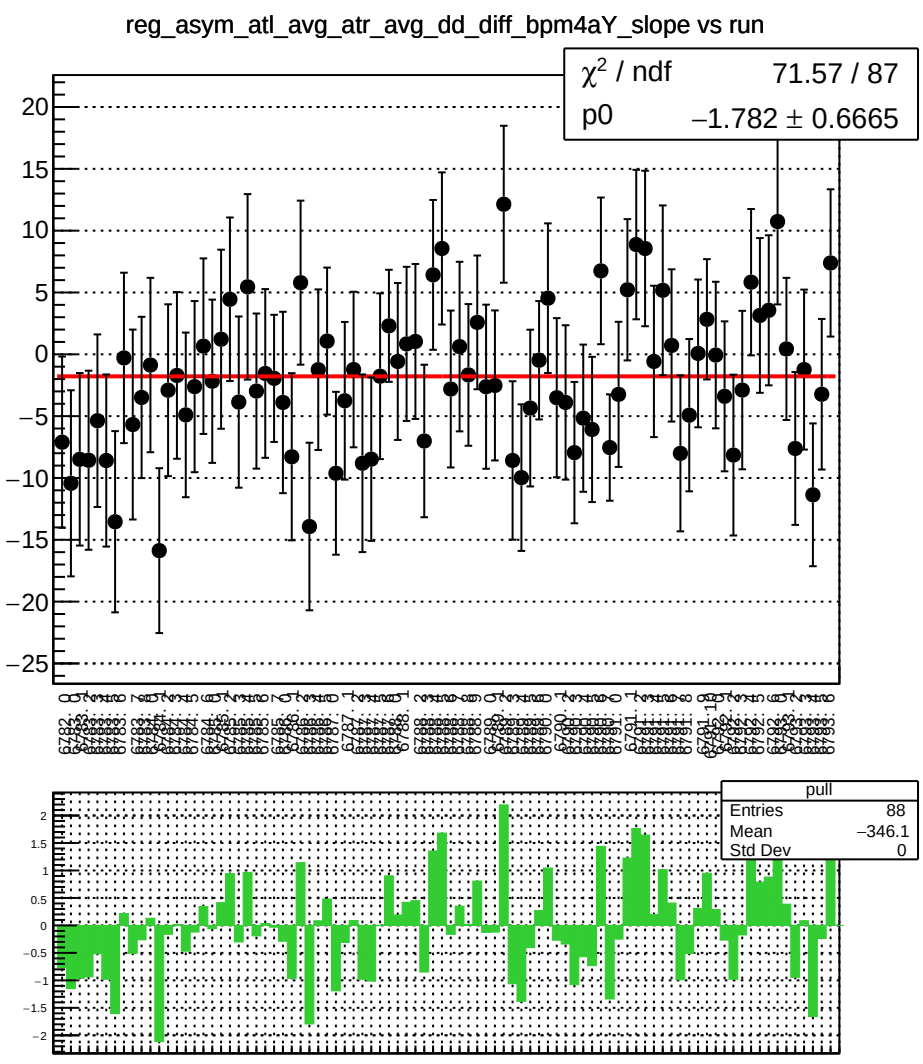

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.79 / 87
p0 285.2 ± 4.106
pull
Entries 88
Mean 872.5
Std Dev 0
pull1D
Entries 88
Mean 0.001459
Std Dev 0.41

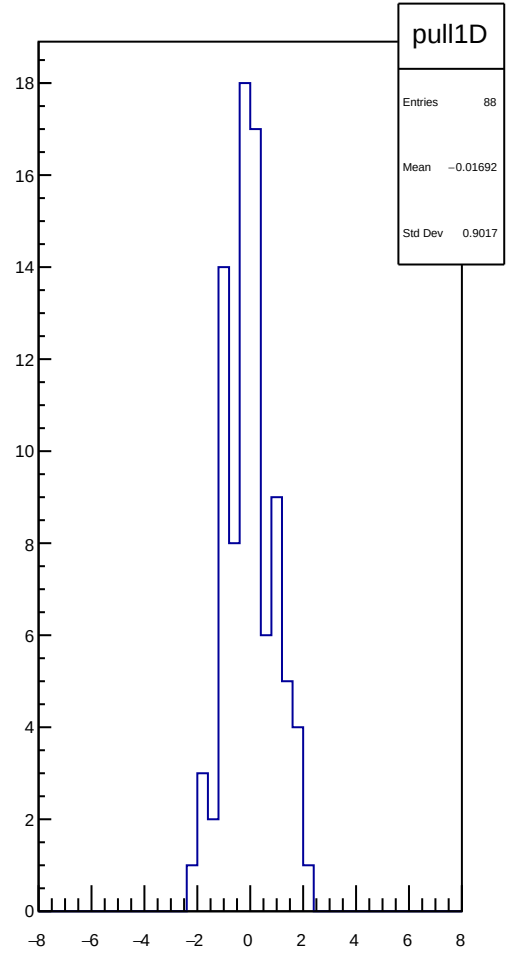

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.67 / 87
p0 32.61 ± 2.775
pull
Entries 88
Mean 175.9
Std Dev 131.3
pull1D
Entries 88
Mean 0.001652
Std Dev 0.3482

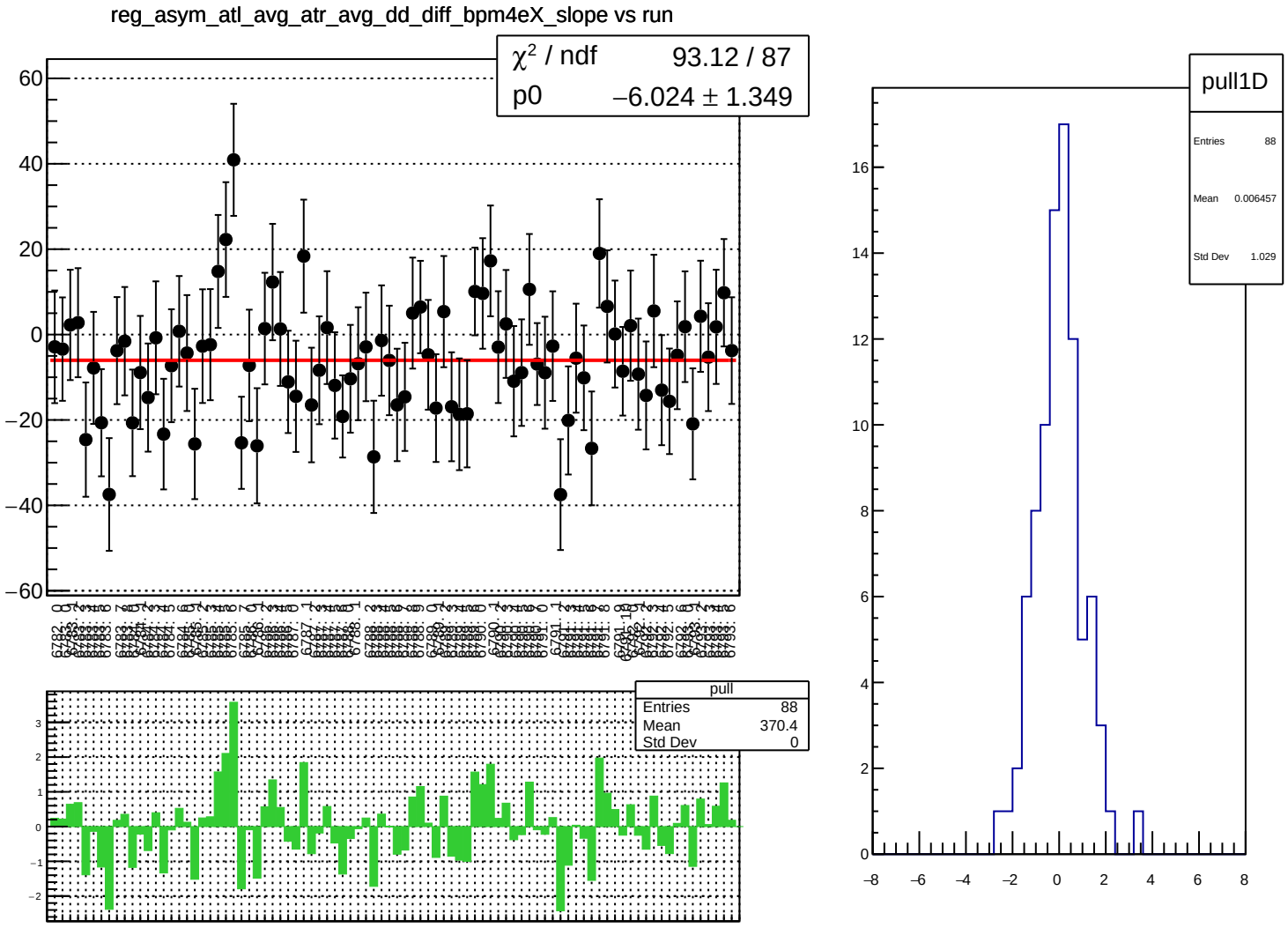

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 29.71 / 87
p0 −140.1 ± 0.1825
pull
Entries 88
Mean −128.2
Std Dev 0
pull1D
Entries 88
Mean −0.005352
Std Dev 0.581

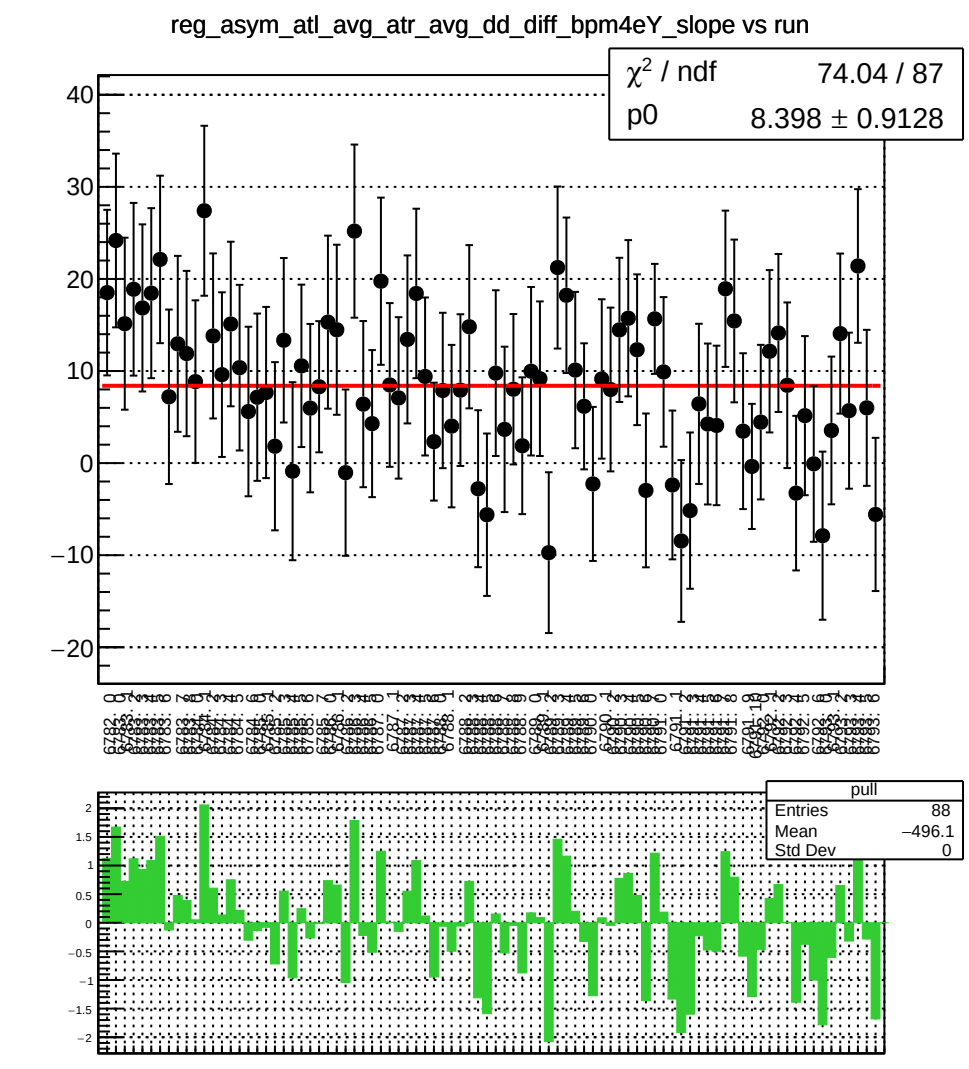

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 95.74 / 87
p0 −12.52 ± 1.446
pull
Entries 88
Mean 306.9
Std Dev 0

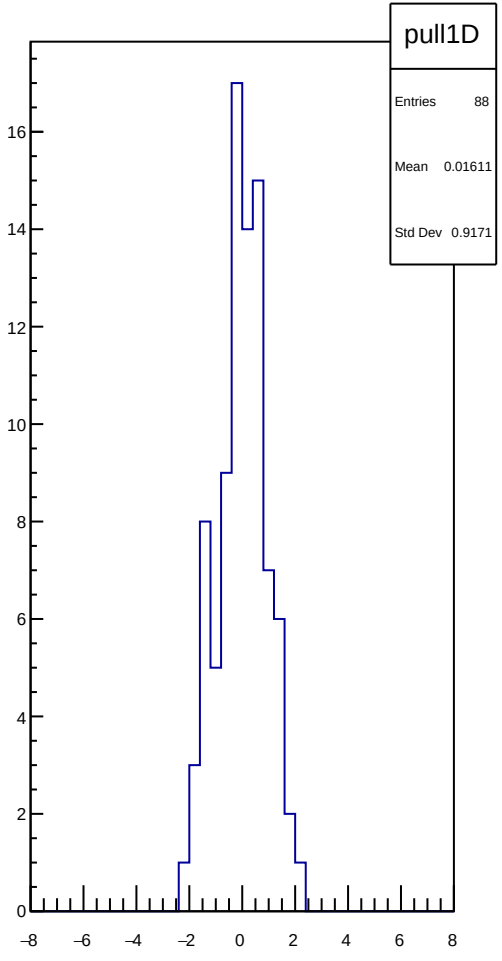

pull1D
Entries 88
Mean −0.006925
Std Dev 1.043

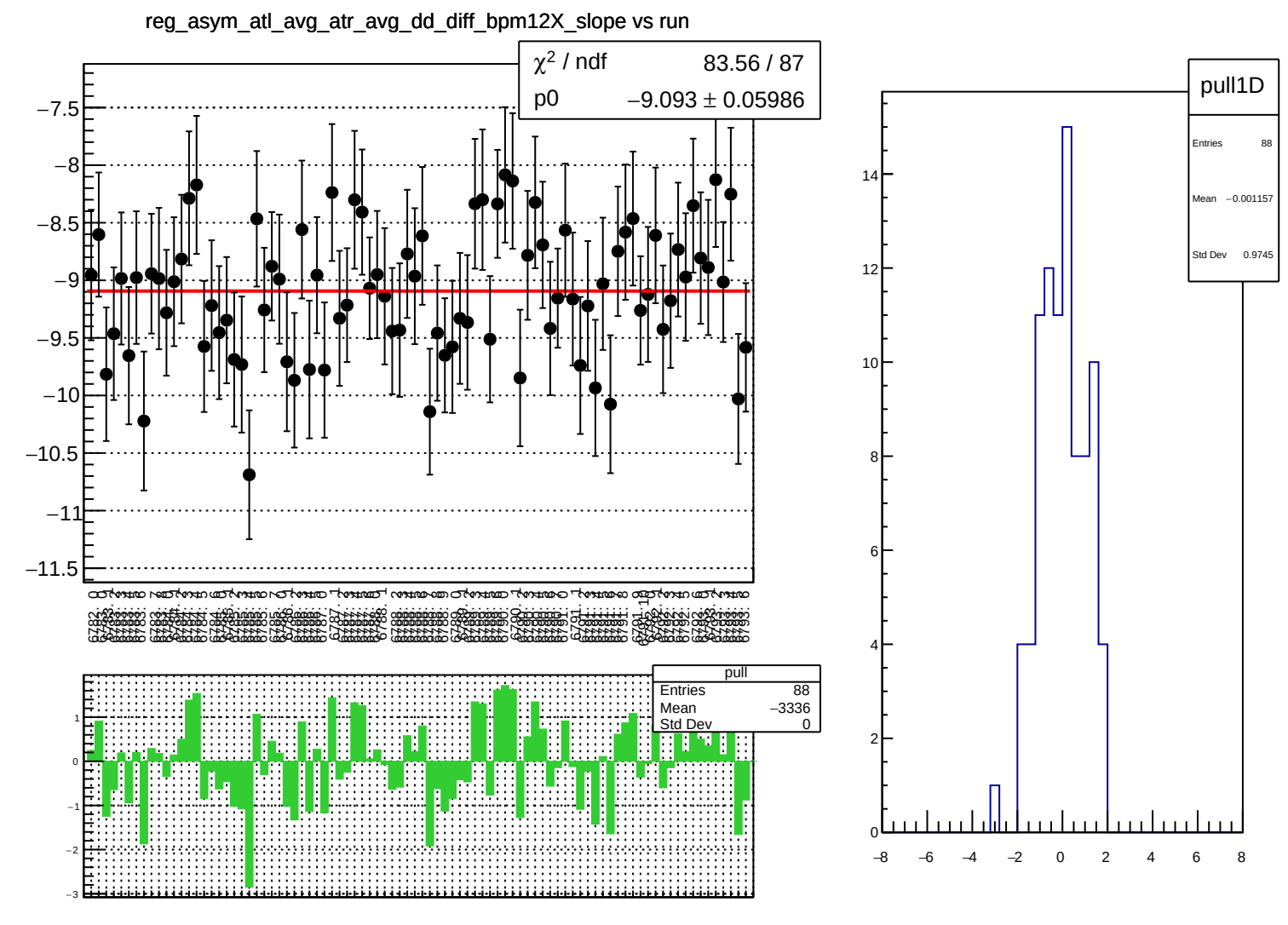

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.57 / 87
p0 −1.782 ± 0.6665
pull
Entries 88
Mean −346.1
Std Dev 0

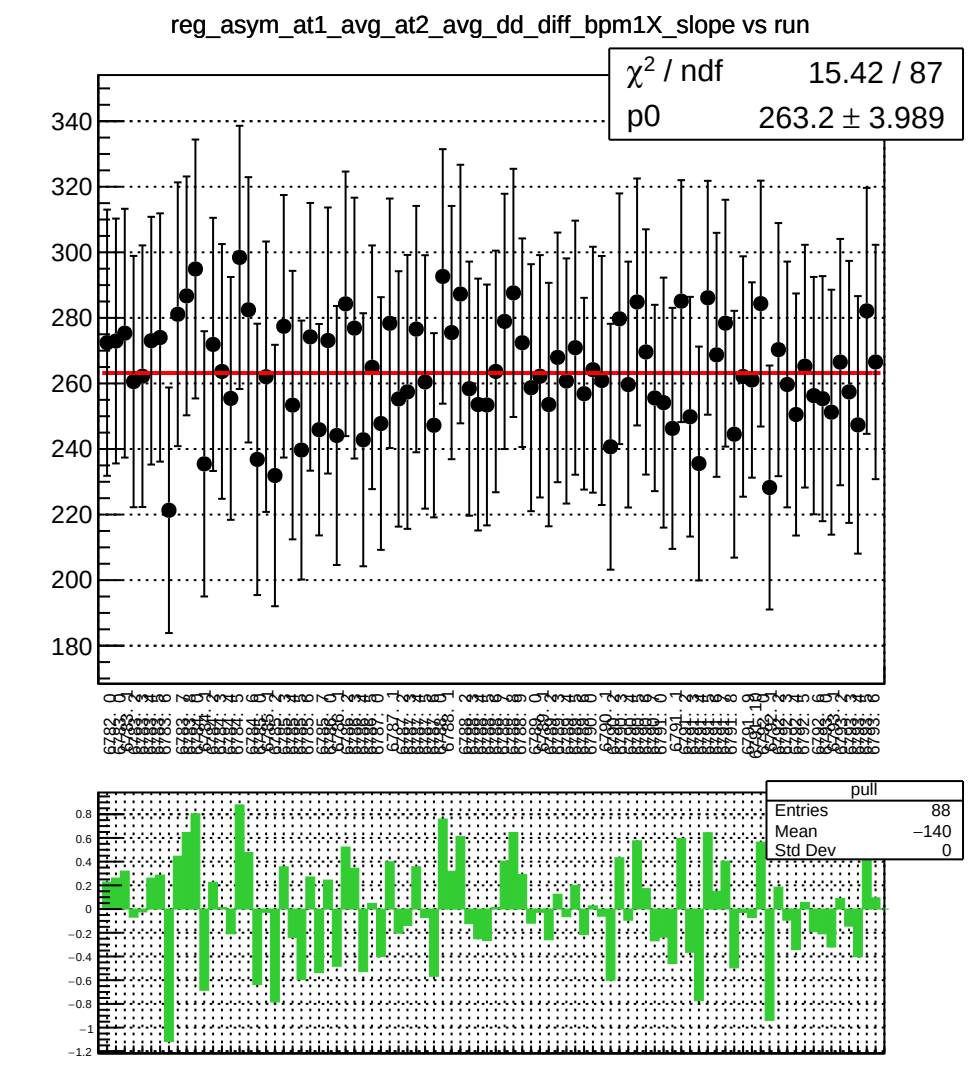

pull1D
Entries 88
Mean −0.01692
Std Dev 0.9017

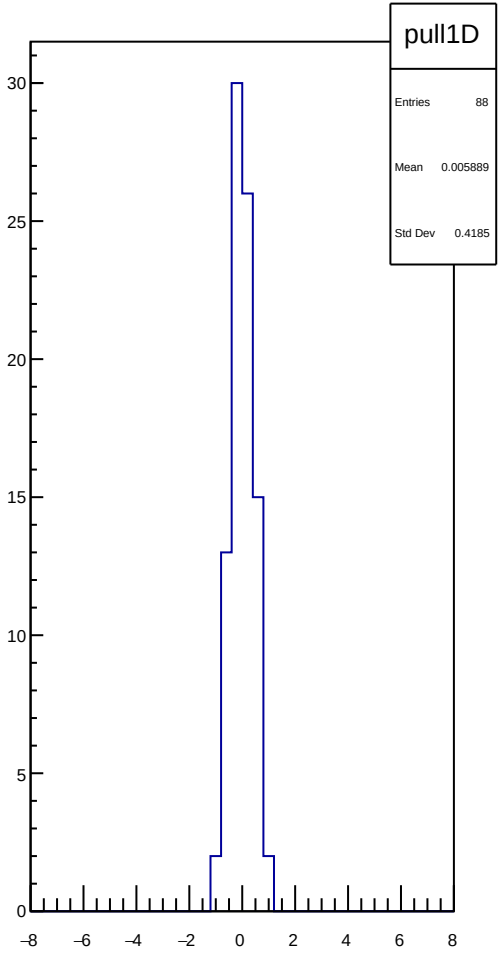

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.12 / 87
p0 −6.024 ± 1.349
pull
Entries 88
Mean 370.4
Std Dev 0
pull1D
Entries 88
Mean 0.006457
Std Dev 1.029

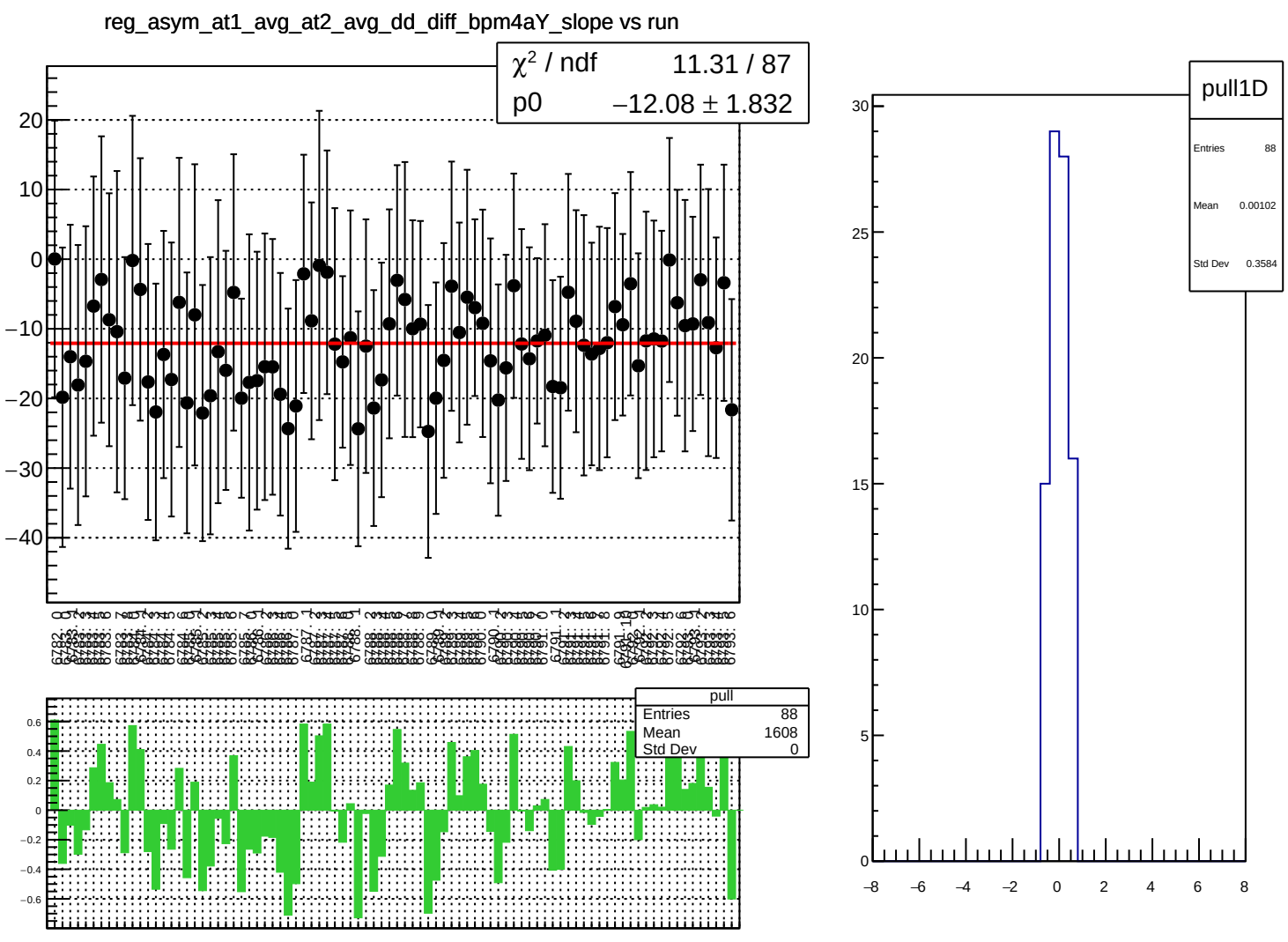

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.04 / 87
p0 8.398 ± 0.9128
pull
Entries 88
Mean −496.1
Std Dev 0

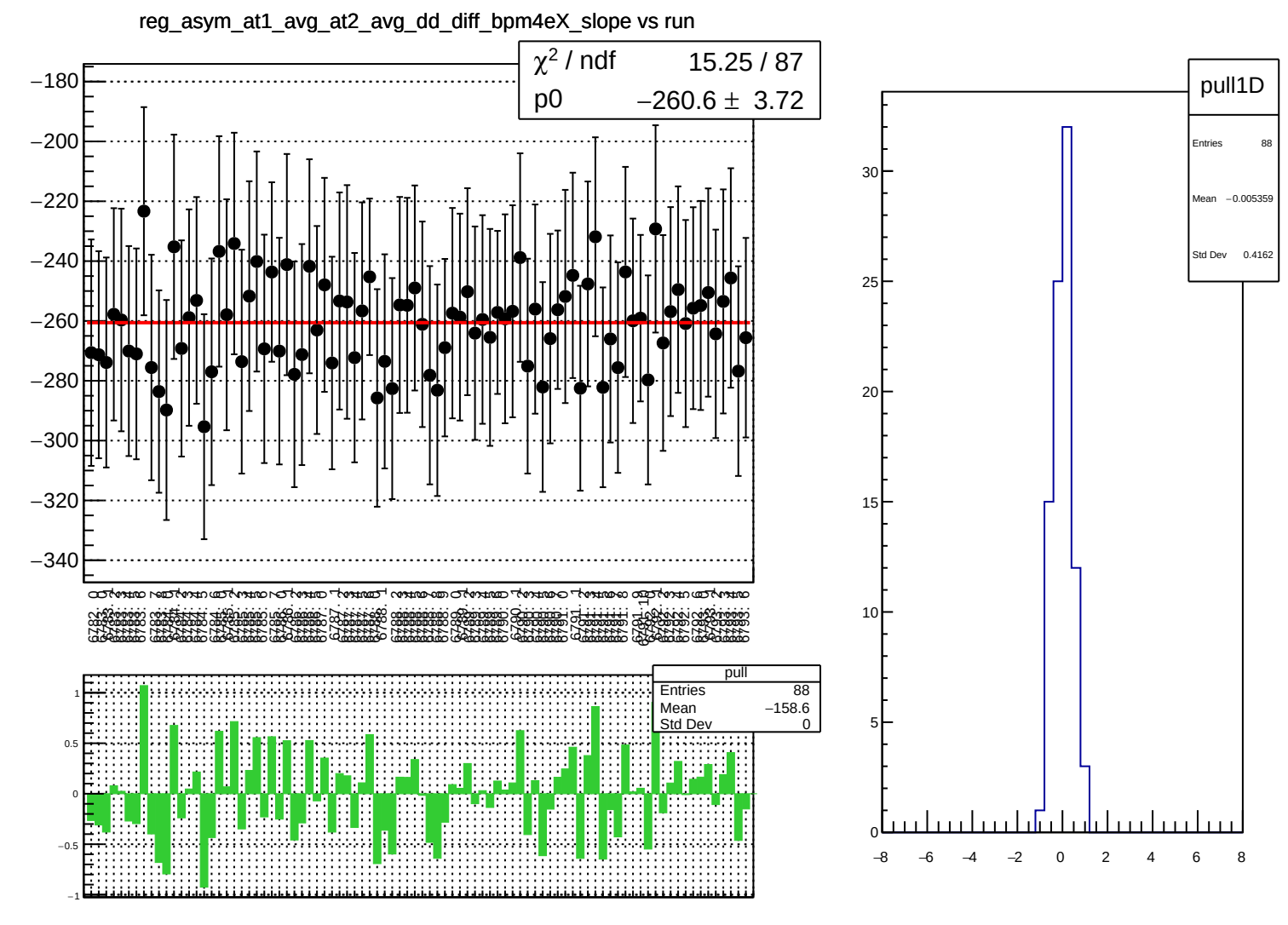

pull1D
Entries 88
Mean 0.01611
Std Dev 0.9171

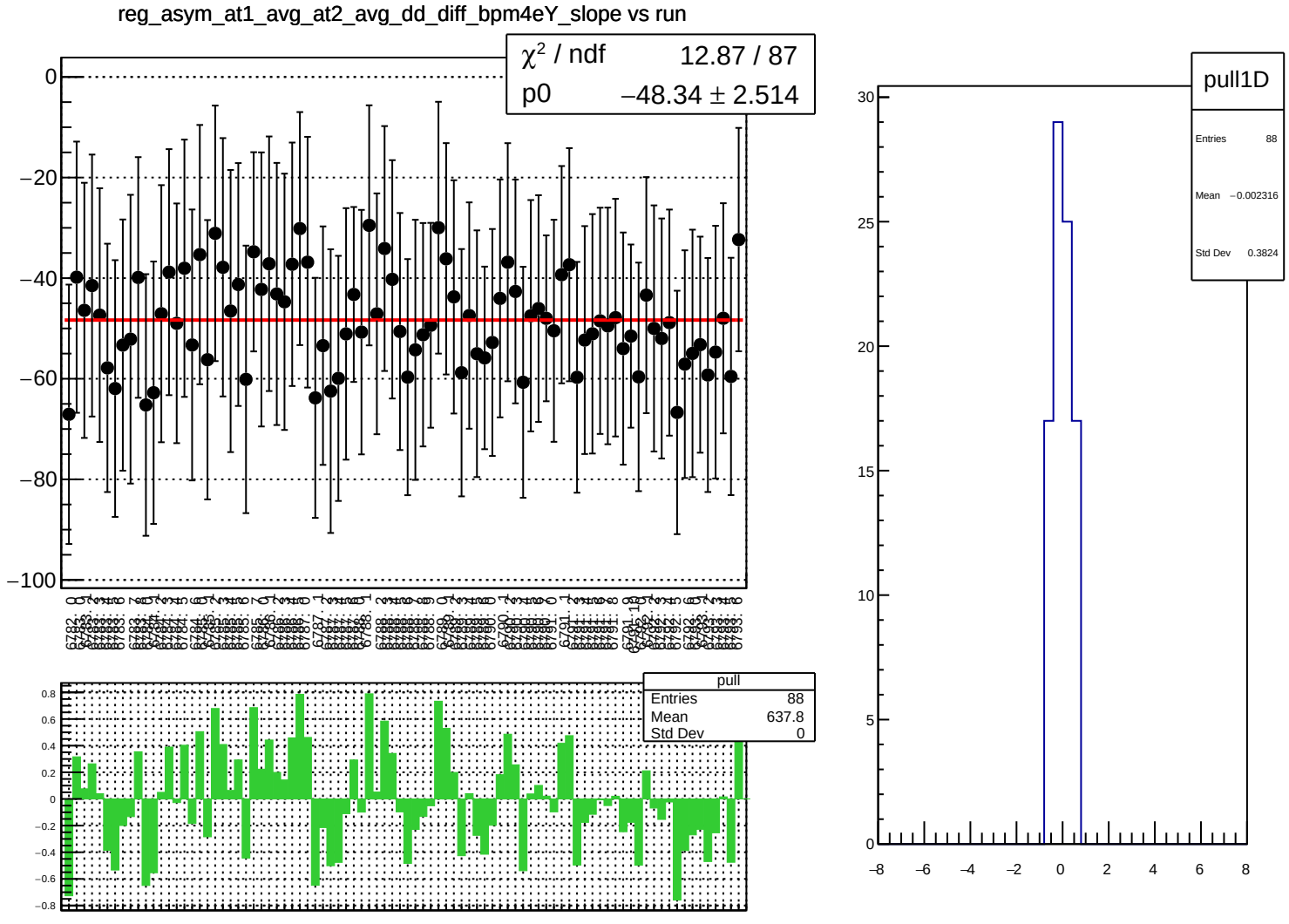

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 83.56 / 87
p0 −9.093 ± 0.05986
pull
Entries 88
Mean −3336
Std Dev 0
pull1D
Entries 88
Mean −0.001157
Std Dev 0.9745

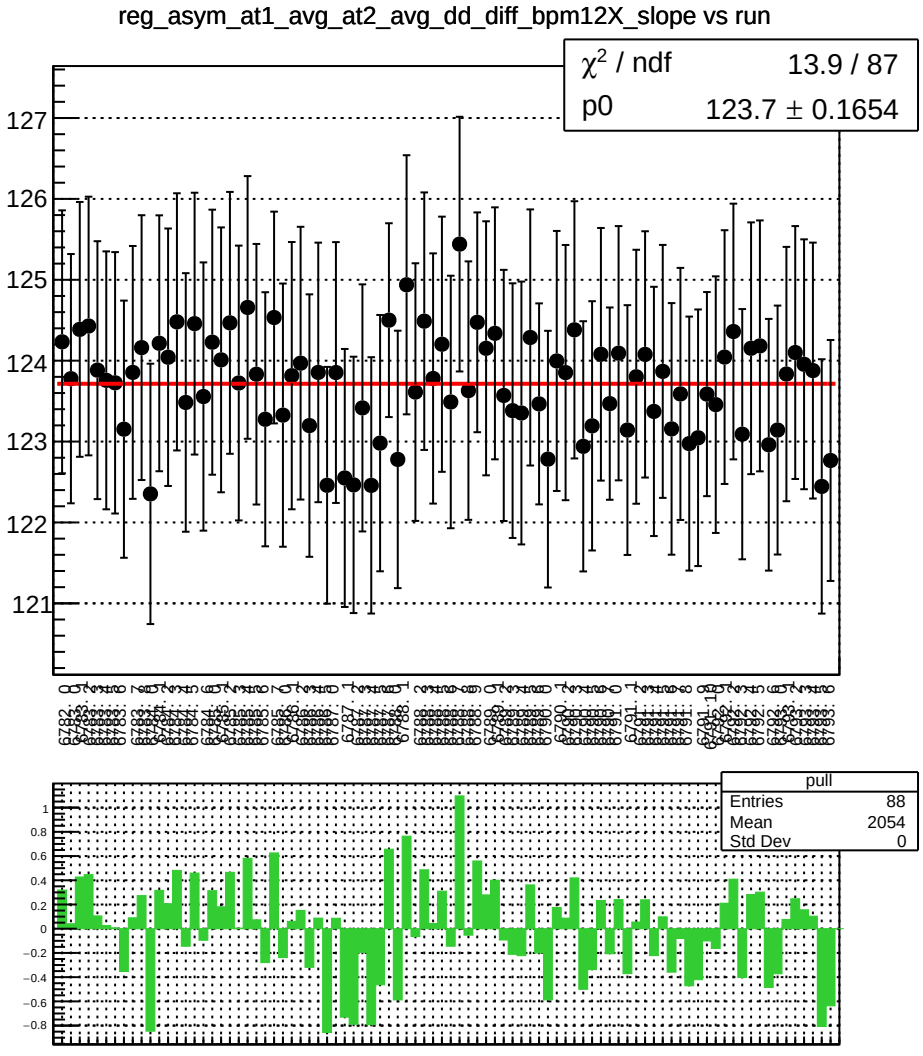

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 15.42 / 87
p0 263.2 ± 3.989
pull
Entries 88
Mean −140
Std Dev 0

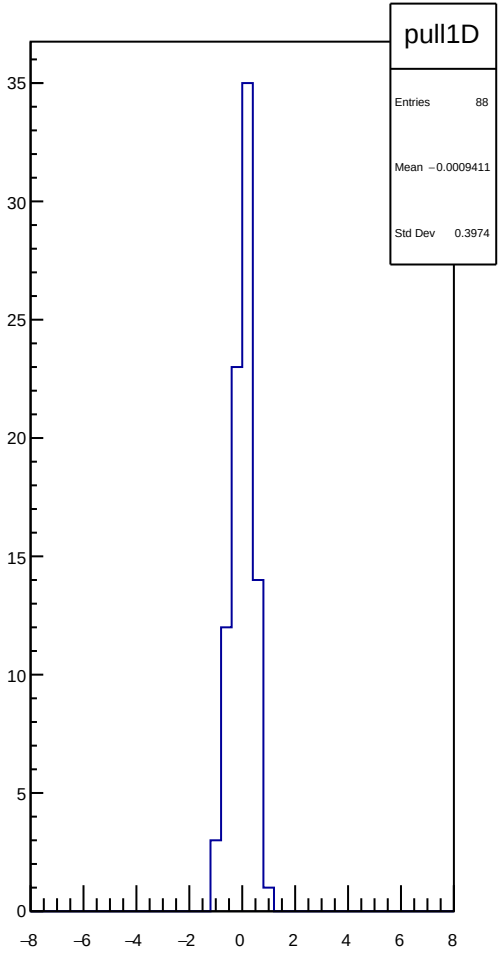

pull1D
Entries 88
Mean 0.005889
Std Dev 0.4185

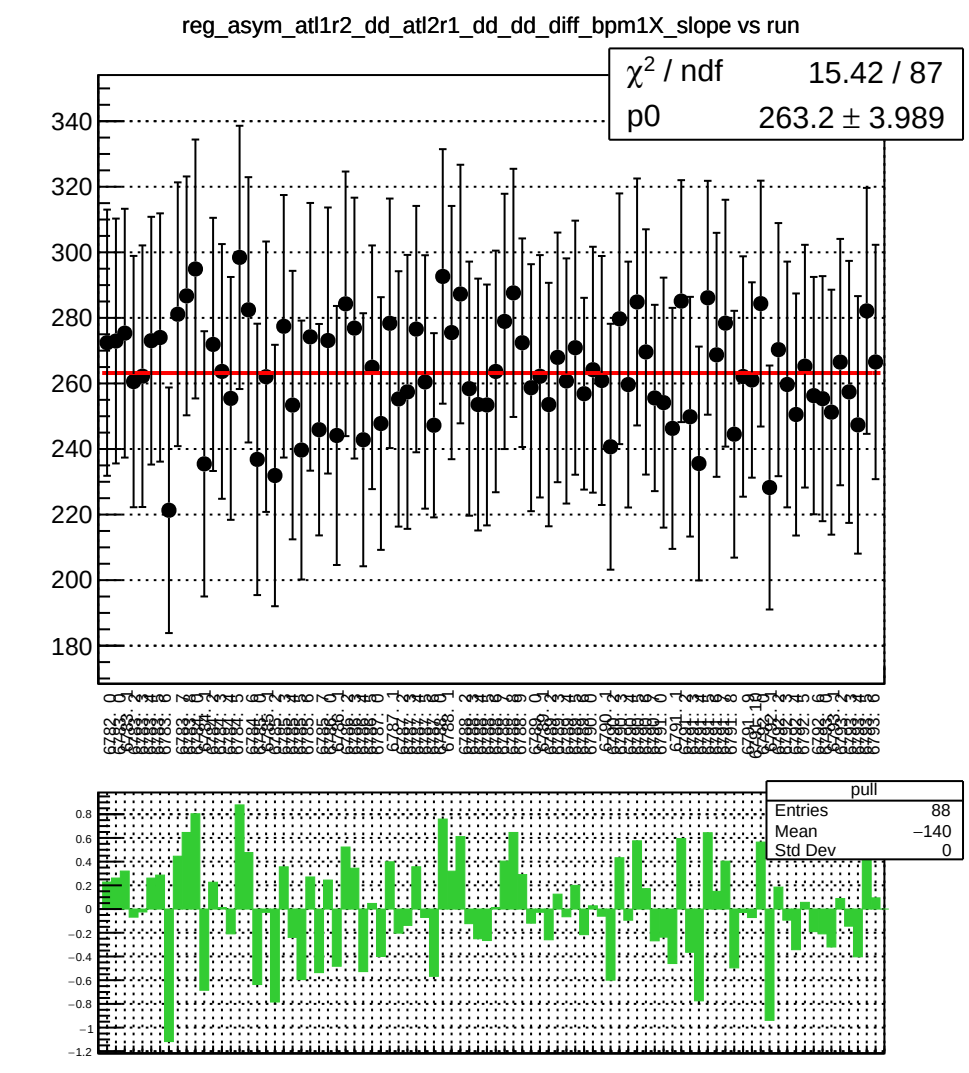

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.31 / 87
p0 −12.08 ± 1.832
pull
Entries 88
Mean 1608
Std Dev 0
pull1D
Entries 88
Mean 0.00102
Std Dev 0.3584

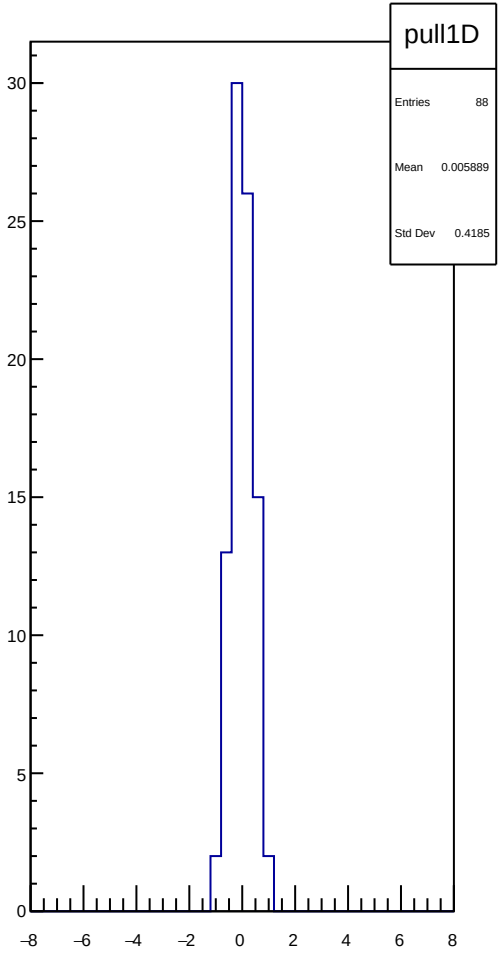

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.25 / 87
p0 −260.6 ± 3.72
pull
Entries 88
Mean −158.6
Std Dev 0
pull1D
Entries 88
Mean −0.005359
Std Dev 0.4162

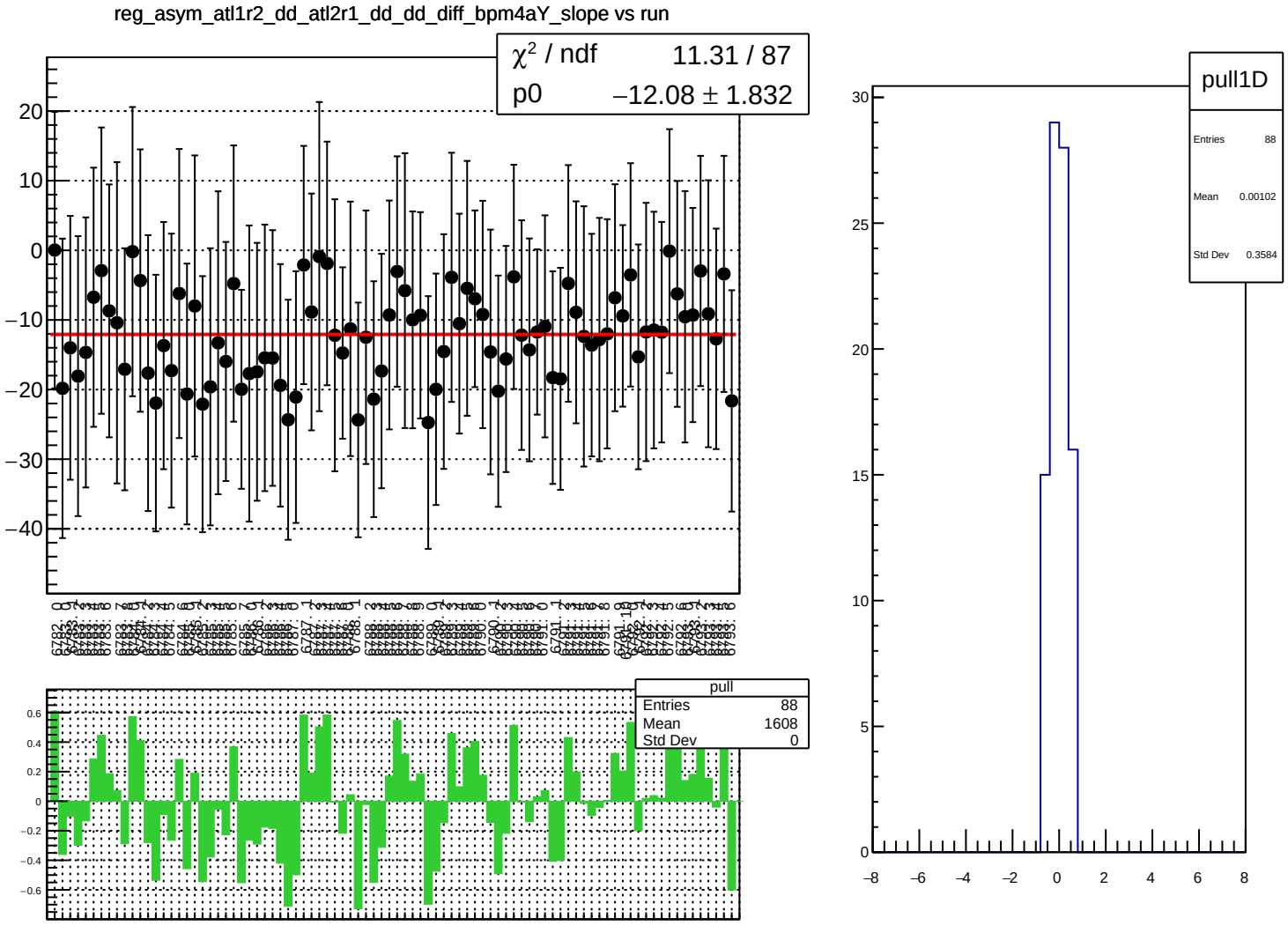

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.87 / 87
p0 −48.34 ± 2.514
pull
Entries 88
Mean 637.8
Std Dev 0
pull1D
Entries 88
Mean −0.002316
Std Dev 0.3824

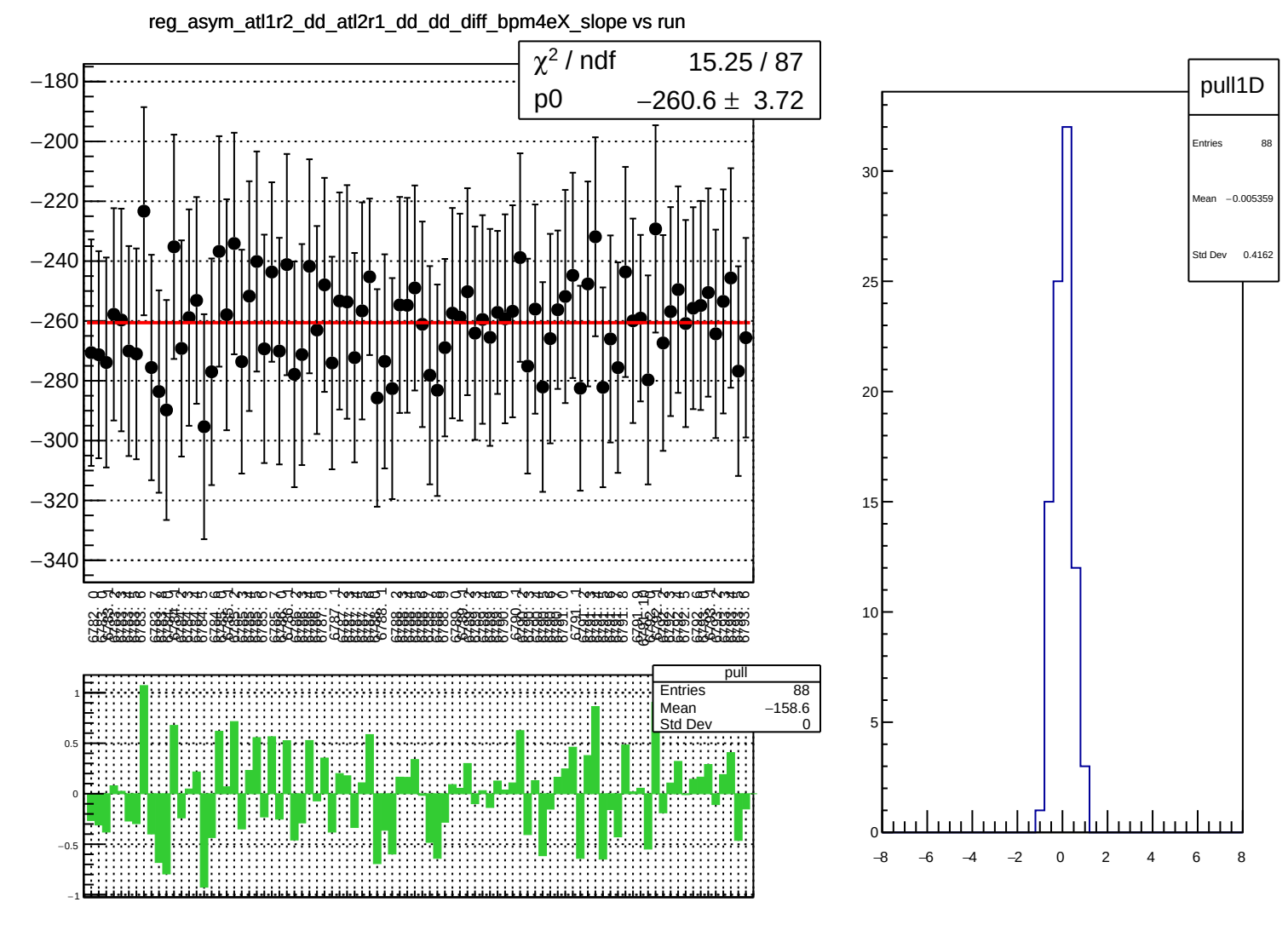

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 13.9 / 87
p0 123.7 ± 0.1654
pull
Entries 88
Mean 2054
Std Dev 0

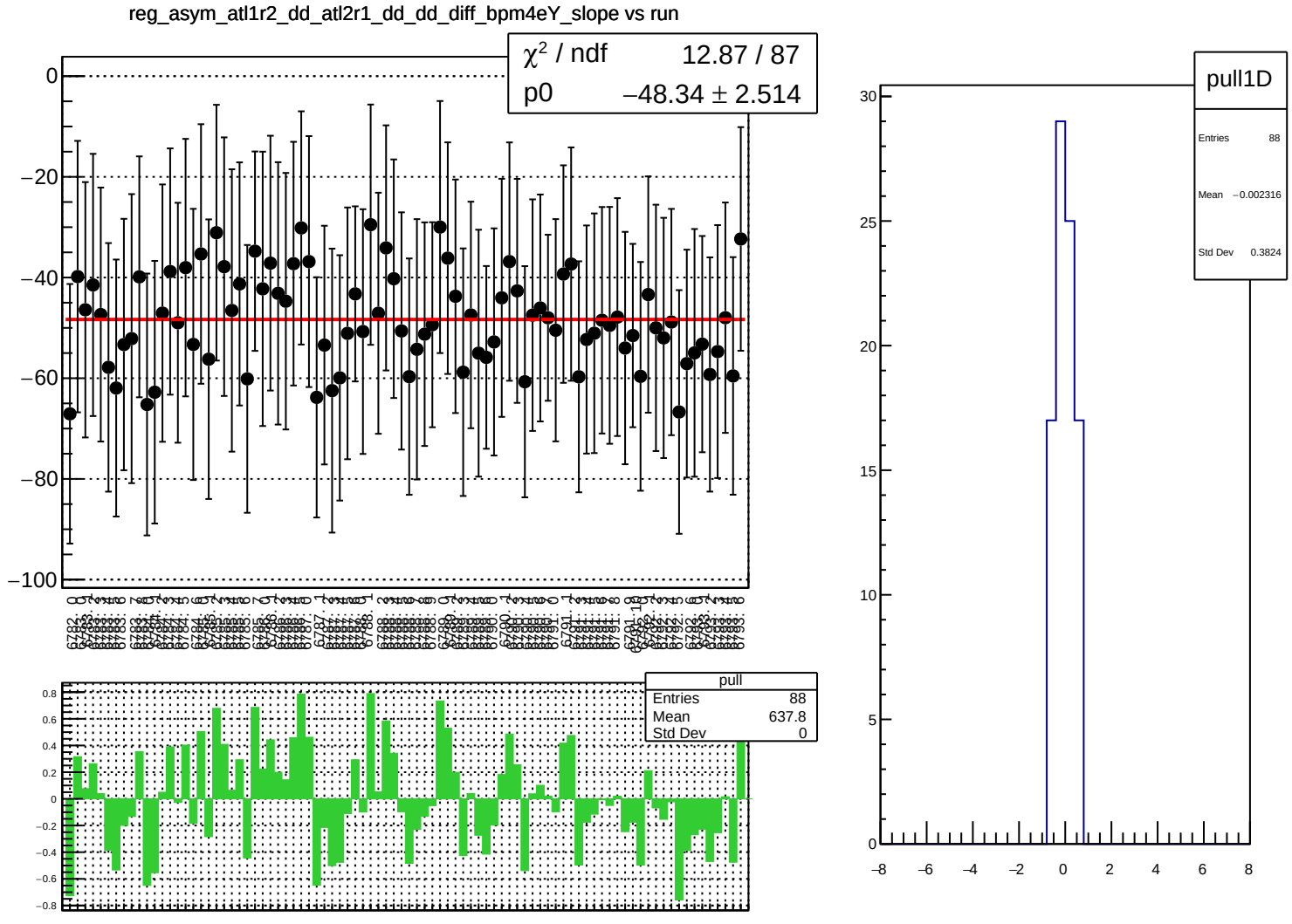

pull1D
Entries 88
Mean −0.0009411
Std Dev 0.3974

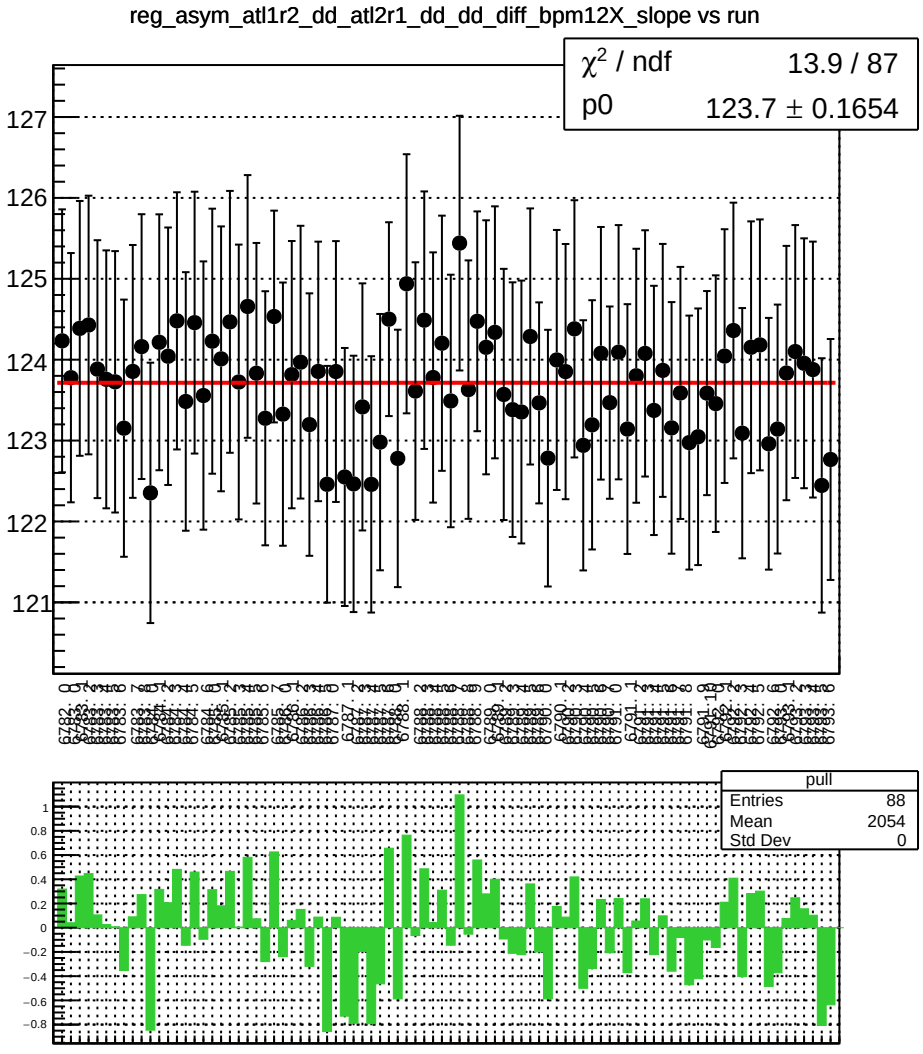

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 15.42 / 87
p0 263.2 ± 3.989
pull
Entries 88
Mean −140
Std Dev 0

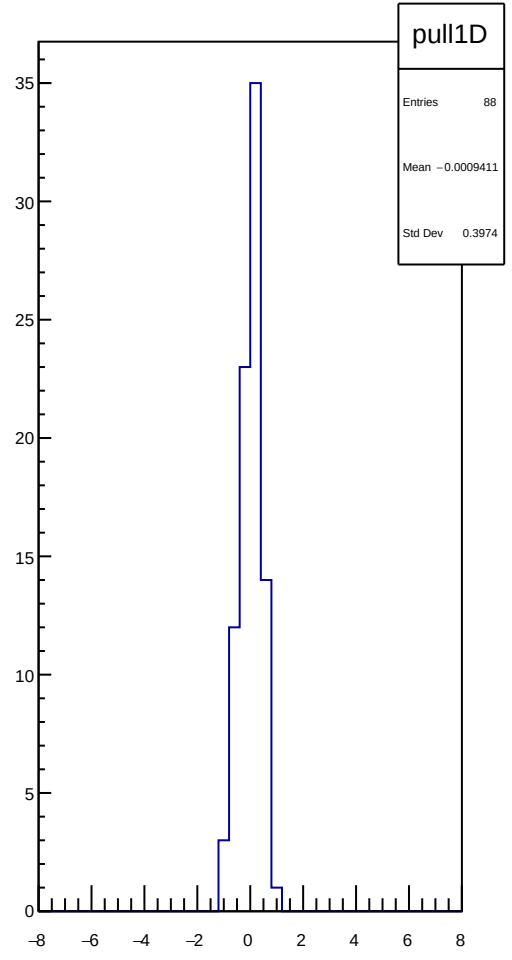

pull1D
Entries 88
Mean 0.005889
Std Dev 0.4185

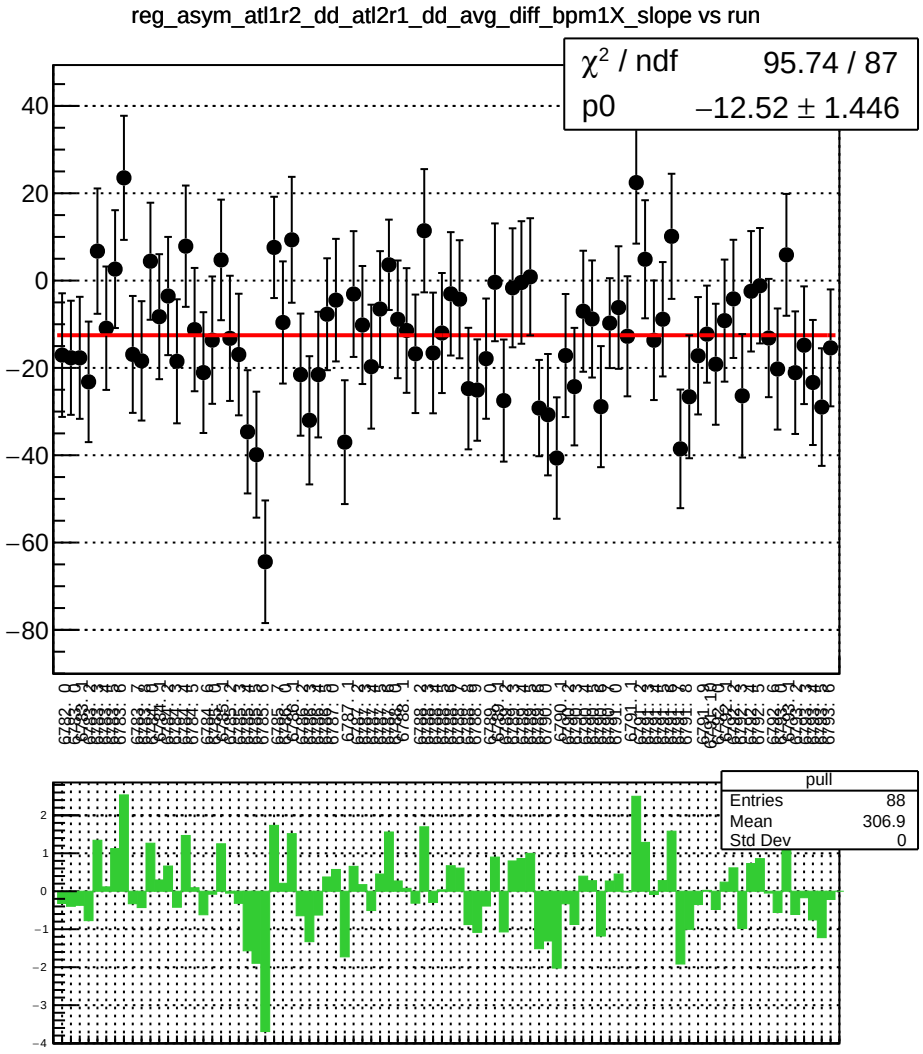

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.31 / 87
p0 −12.08 ± 1.832
pull
Entries 88
Mean 1608
Std Dev 0
pull1D
Entries 88
Mean 0.00102
Std Dev 0.3584

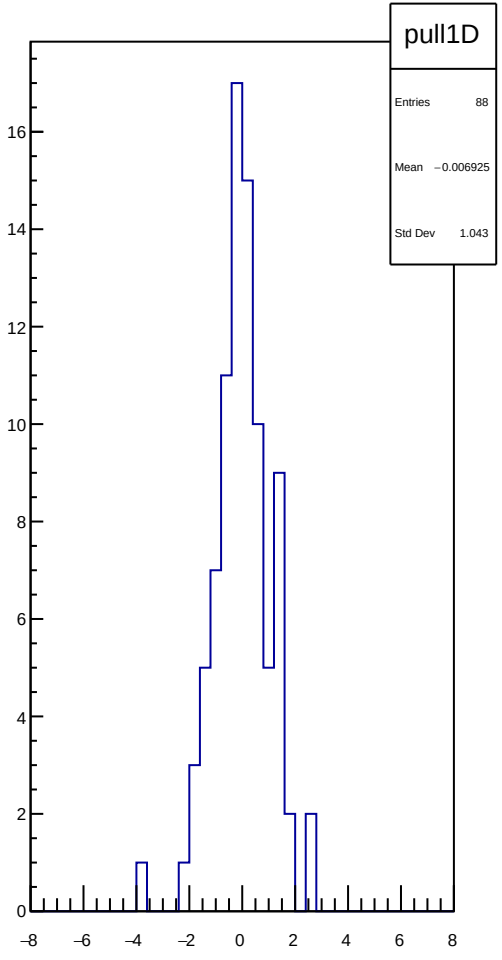

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.25 / 87
p0 −260.6 ± 3.72
pull
Entries 88
Mean −158.6
Std Dev 0
pull1D
Entries 88
Mean −0.005359
Std Dev 0.4162

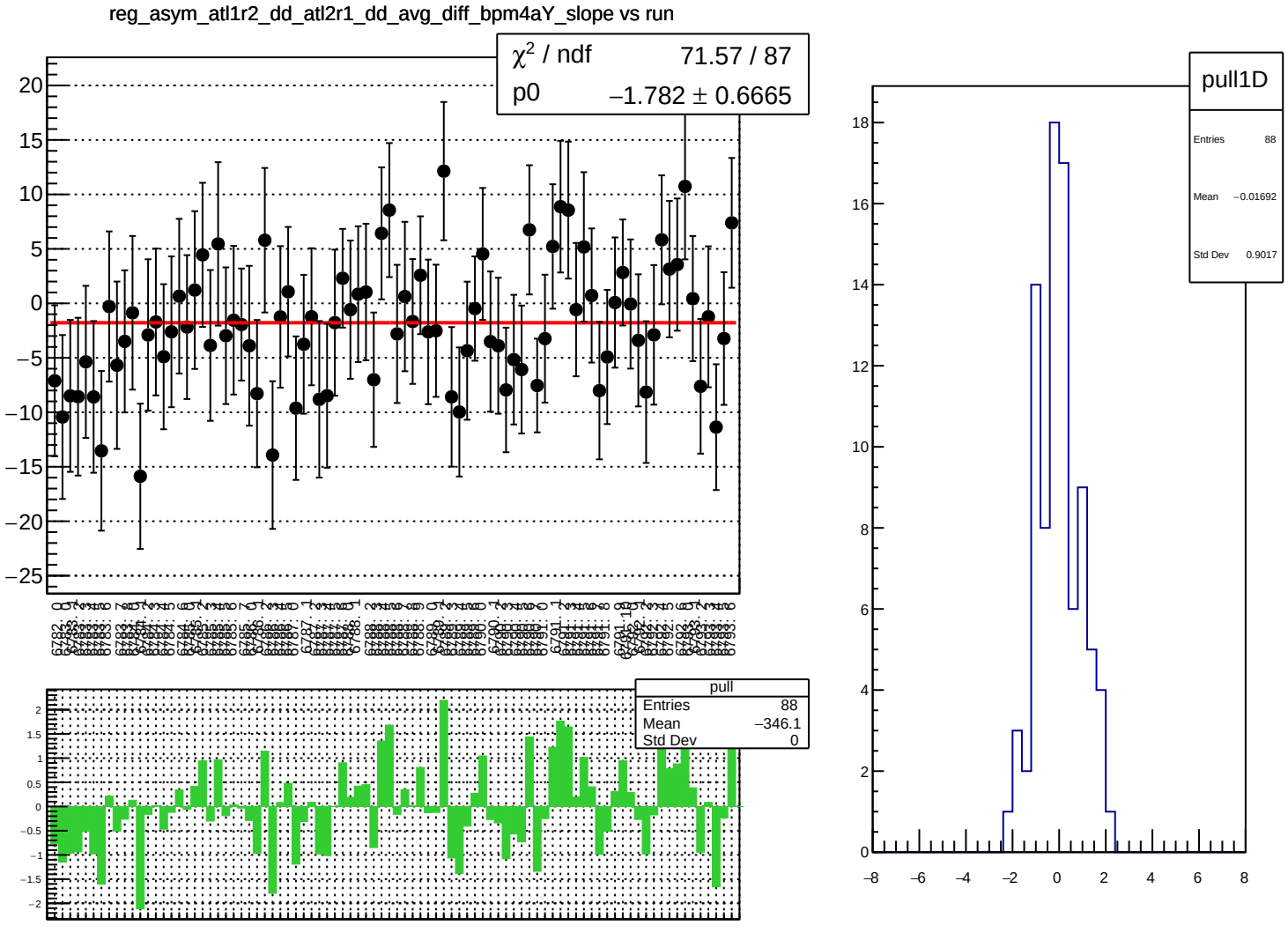

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.87 / 87
p0 −48.34 ± 2.514
pull
Entries 88
Mean 637.8
Std Dev 0
pull1D
Entries 88
Mean −0.002316
Std Dev 0.3824

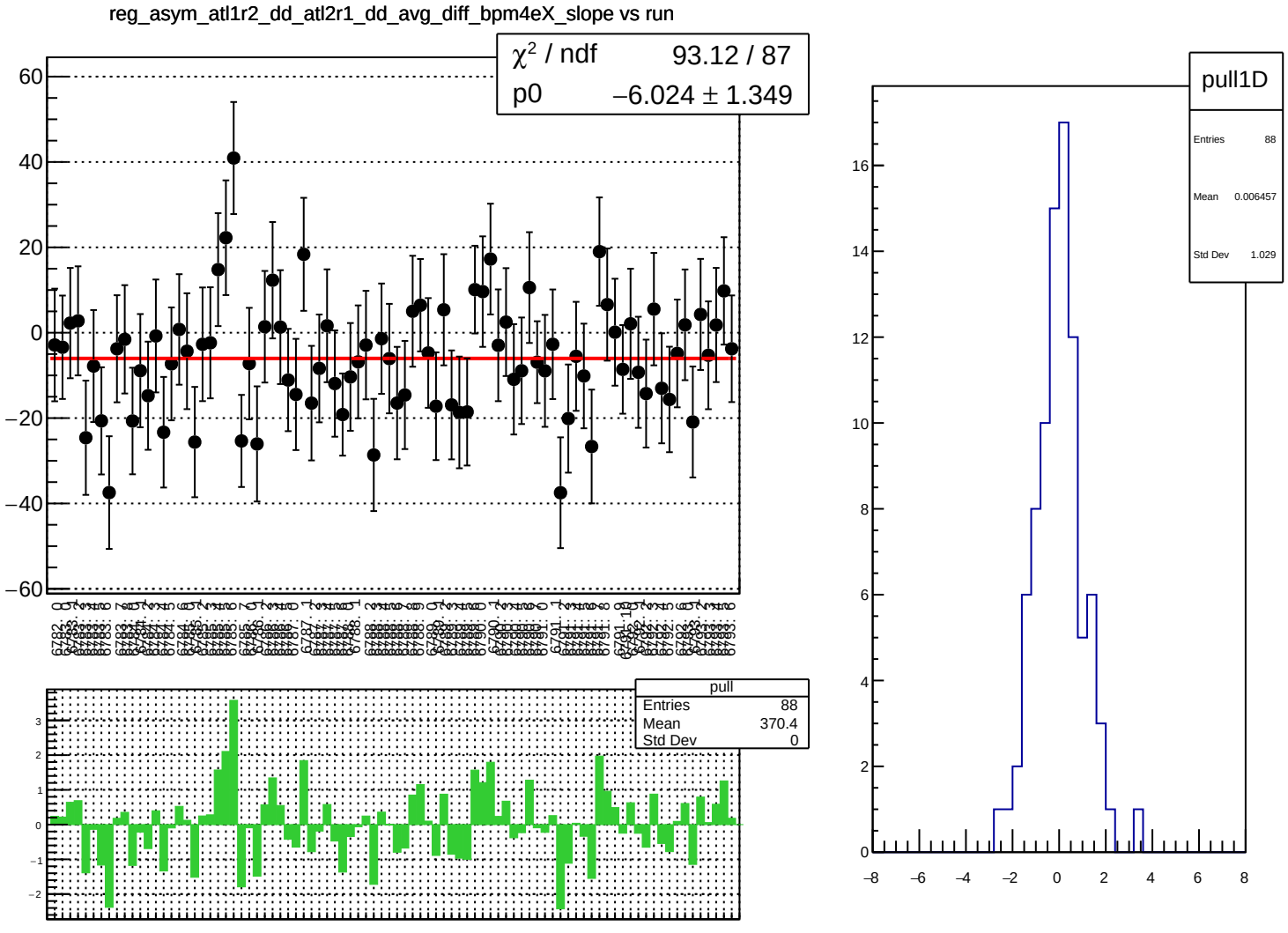

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 13.9 / 87
p0 123.7 ± 0.1654
127
126
125
124
123
122
121
pull
Entries 88
Mean 2054
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

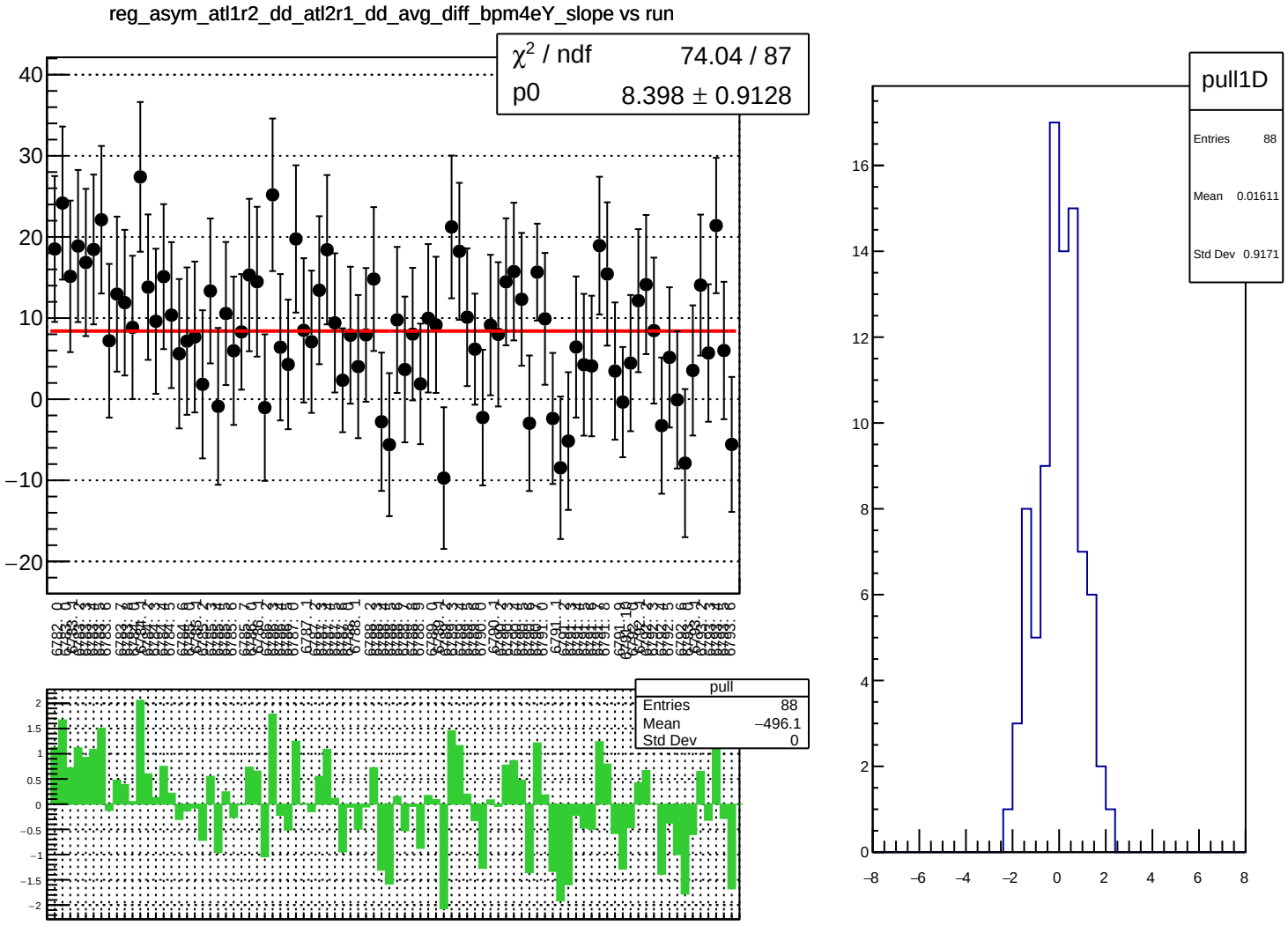

pull1D
Entries 88
Mean −0.0009411
Std Dev 0.3974
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

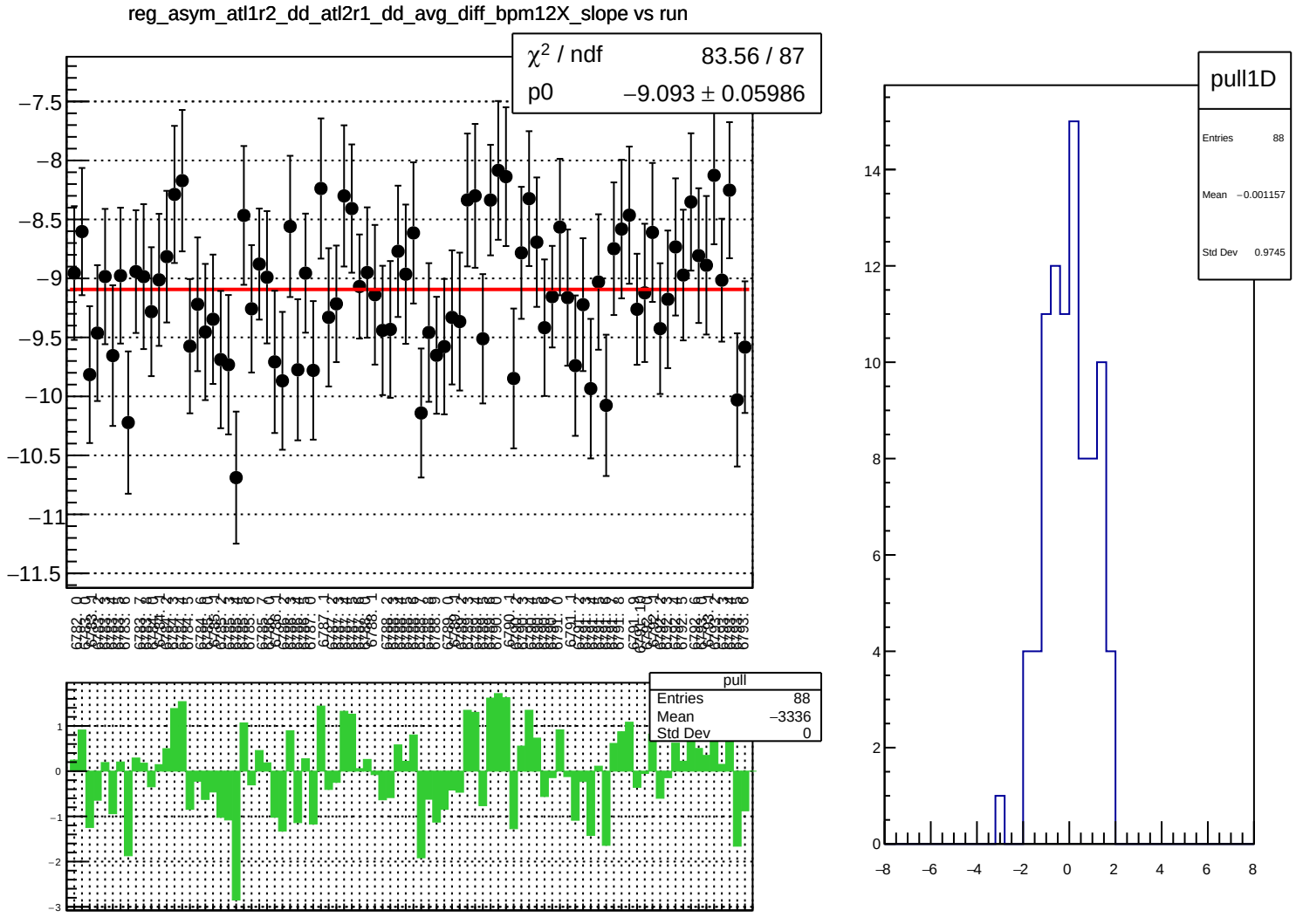

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 95.74 / 87
p0 −12.52 ± 1.446
pull
Entries 88
Mean 306.9
Std Dev 0

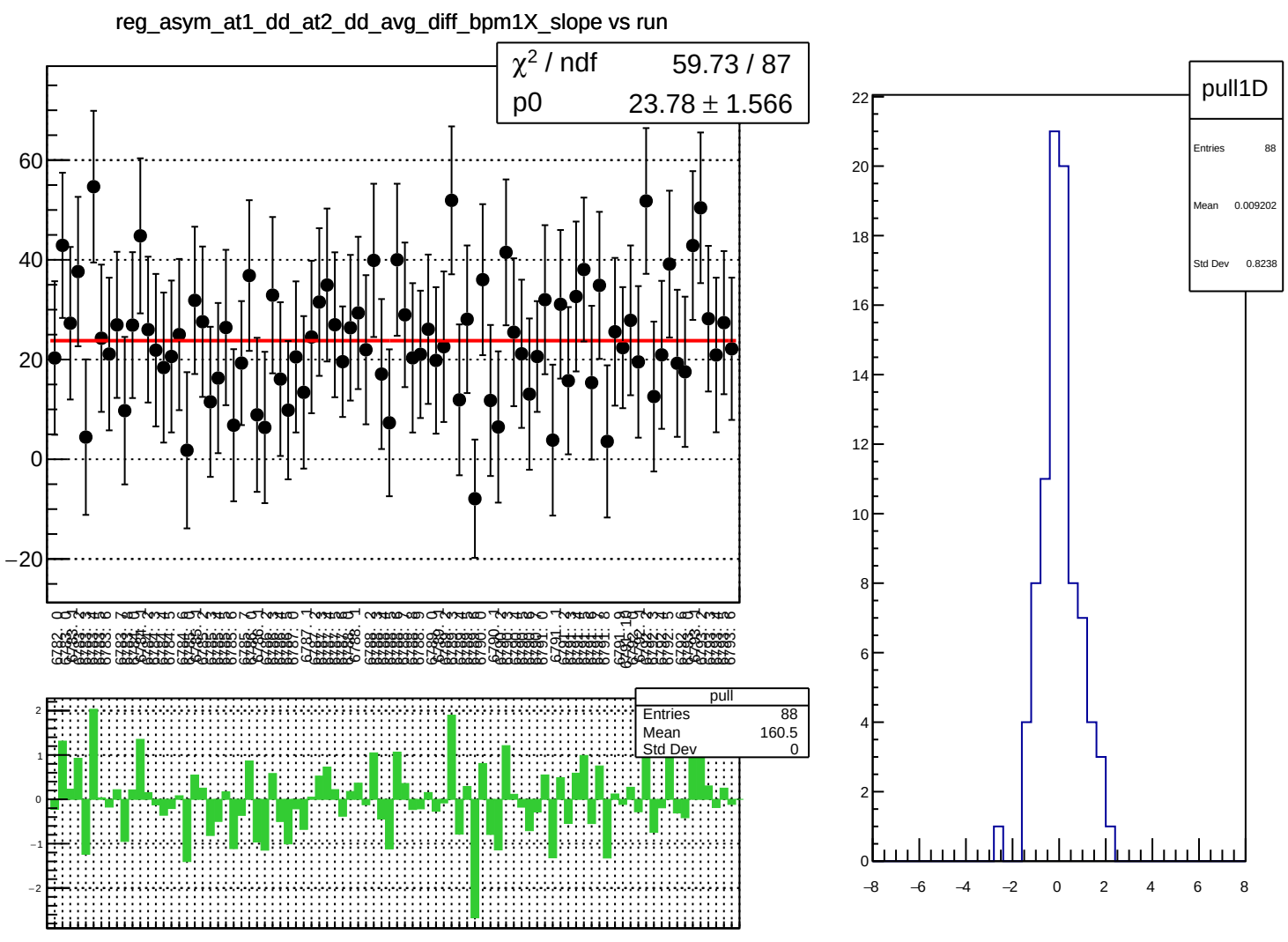

pull1D
Entries 88
Mean −0.006925
Std Dev 1.043

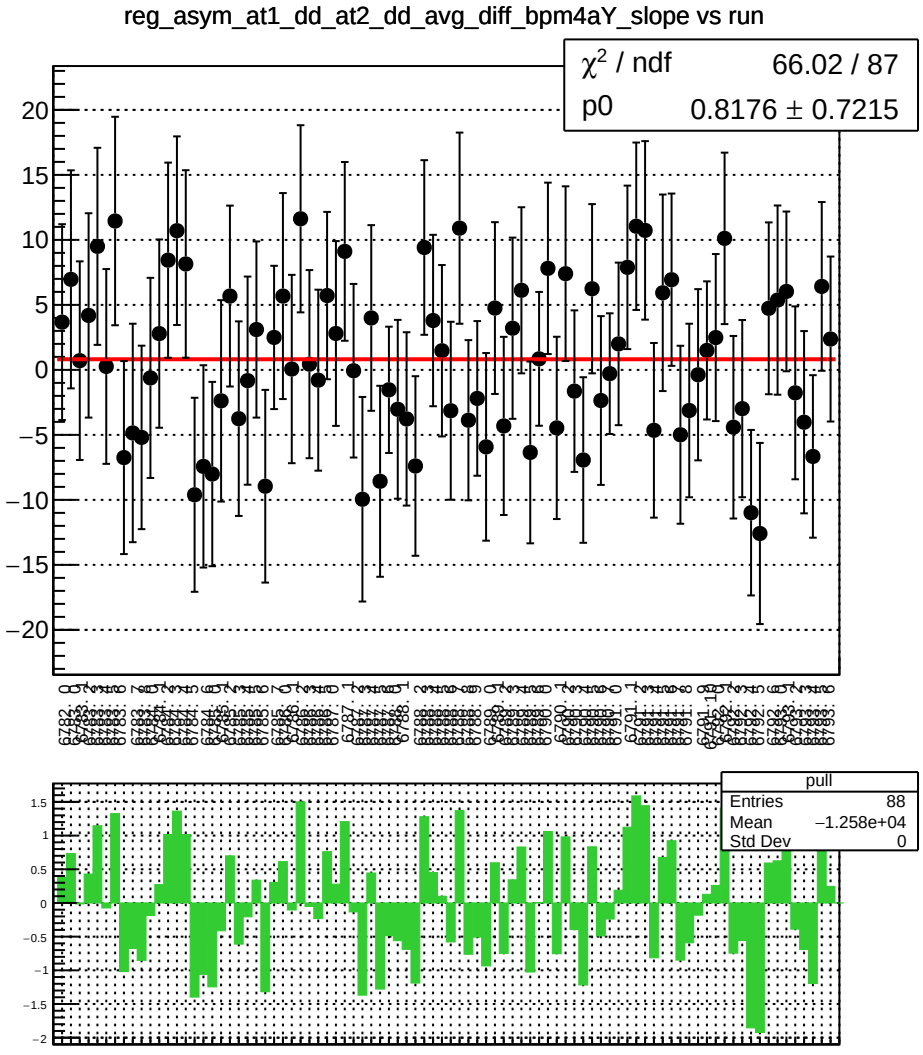

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.57 / 87
p0 −1.782 ± 0.6665
pull
Entries 88
Mean −346.1
Std Dev 0
pull1D
Entries 88
Mean −0.01692
Std Dev 0.9017

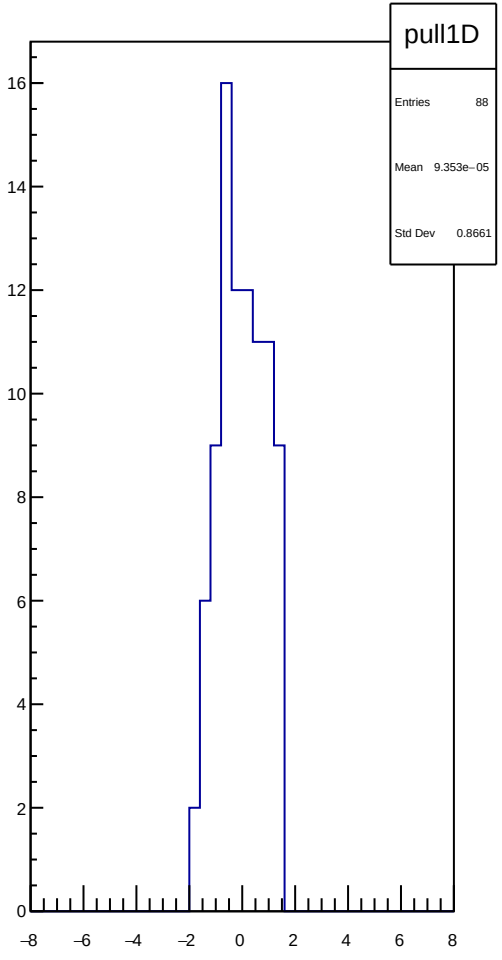

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.12 / 87
p0 −6.024 ± 1.349
pull
Entries 88
Mean 370.4
Std Dev 0
pull1D
Entries 88
Mean 0.006457
Std Dev 1.029

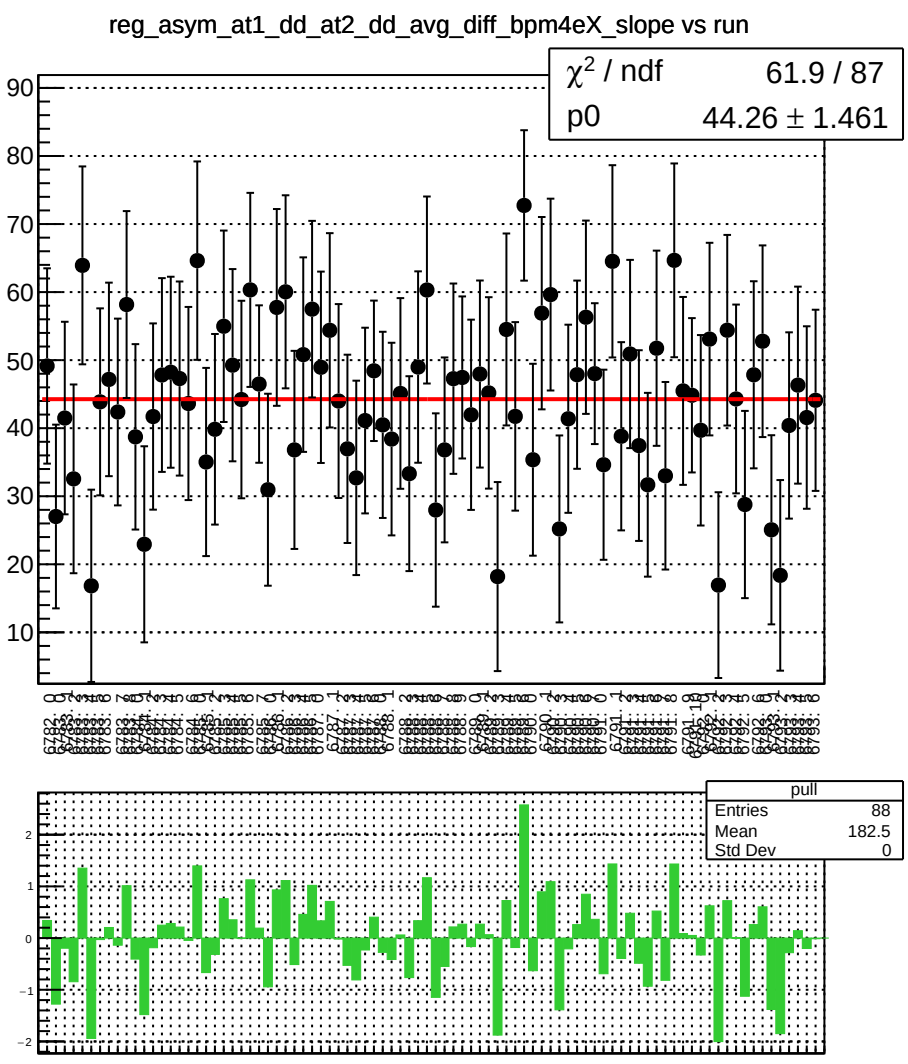

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.04 / 87
p0 8.398 ± 0.9128
pull
Entries 88
Mean −496.1
Std Dev 0
pull1D
Entries 88
Mean 0.01611
Std Dev 0.9171

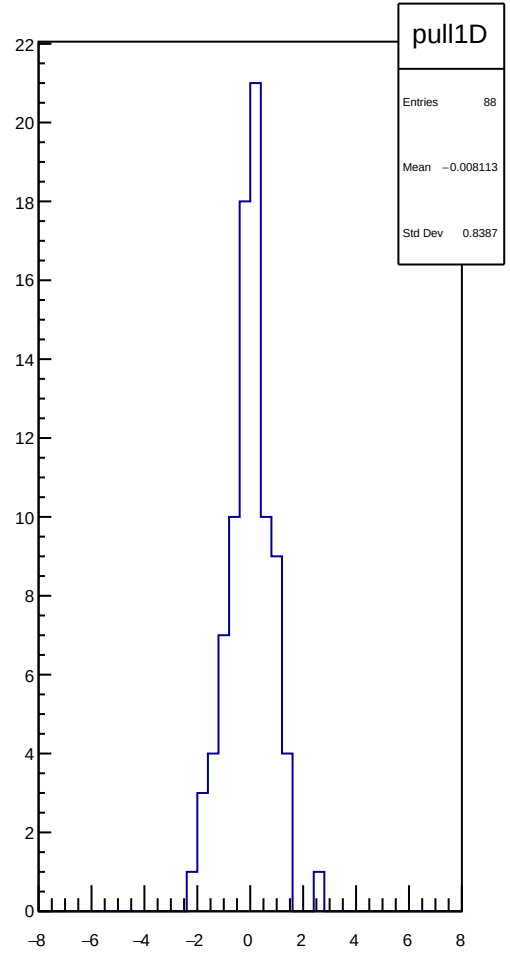

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 83.56 / 87
p0 −9.093 ± 0.05986
pull
Entries 88
Mean −3336
Std Dev 0
pull1D
Entries 88
Mean −0.001157
Std Dev 0.9745

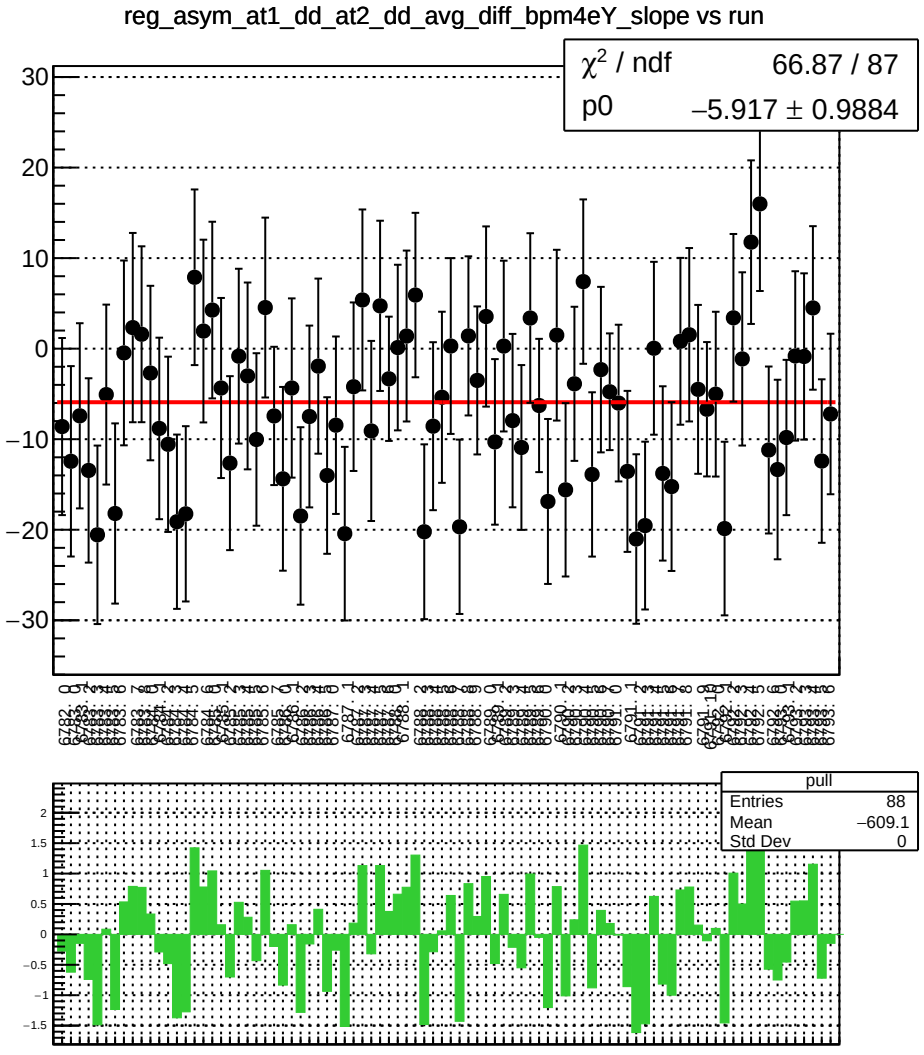

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 59.73 / 87
p0 23.78 ± 1.566
pull
Entries 88
Mean 160.5
Std Dev 0
pull1D
Entries 88
Mean 0.009202
Std Dev 0.8238

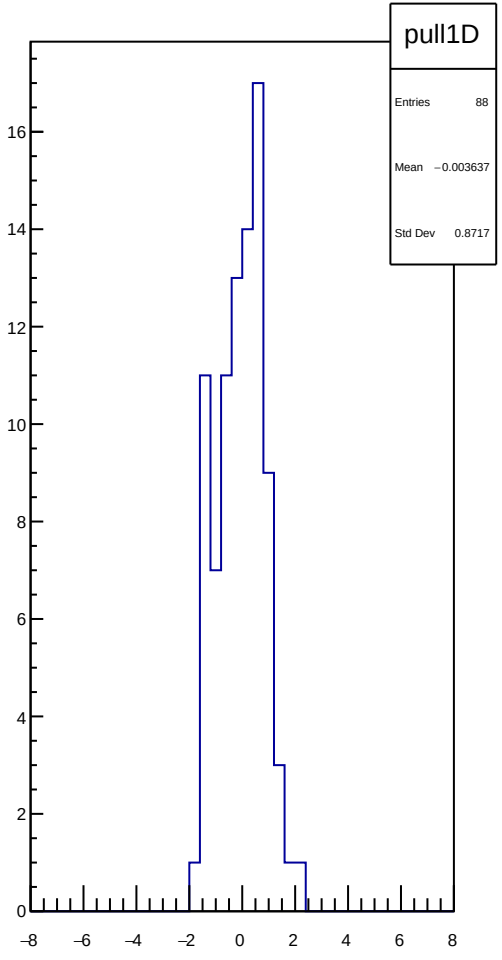

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.02 / 87
p0 0.8176 ± 0.7215
pull
Entries 88
Mean −1.258e+04
Std Dev 0

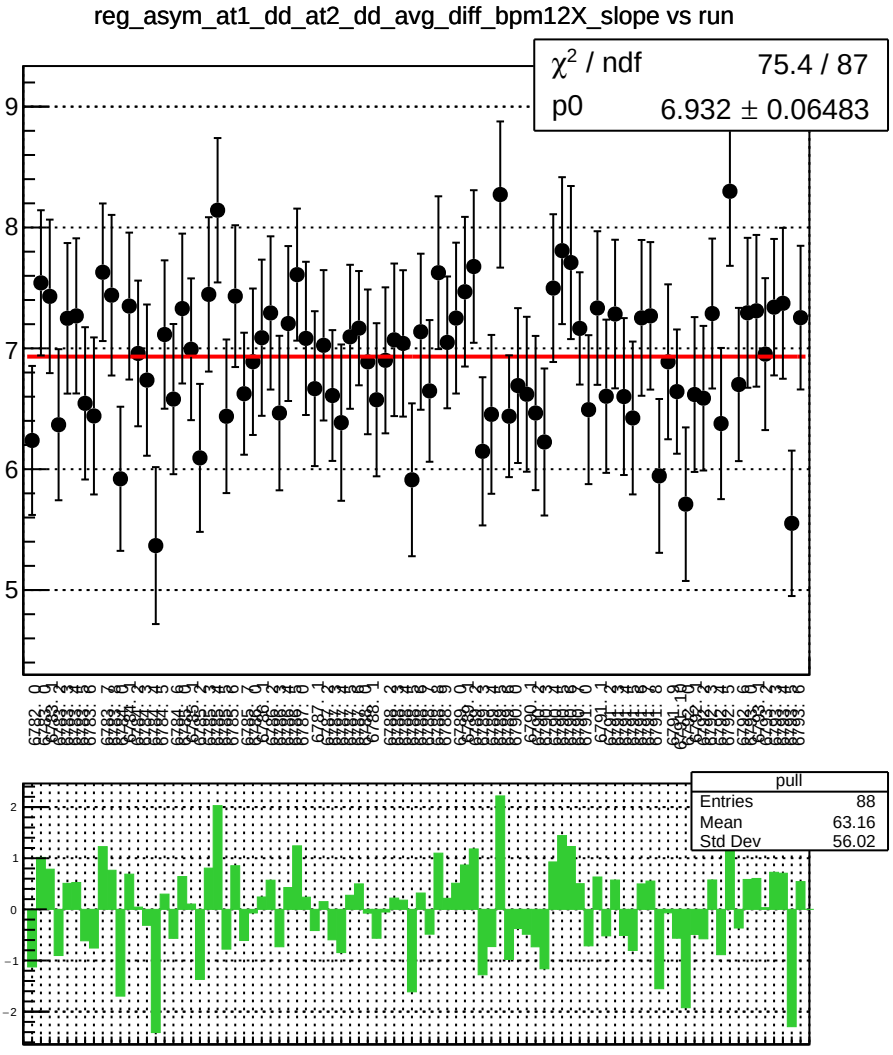

pull1D
Entries 88
Mean 9.353e−05
Std Dev 0.8661

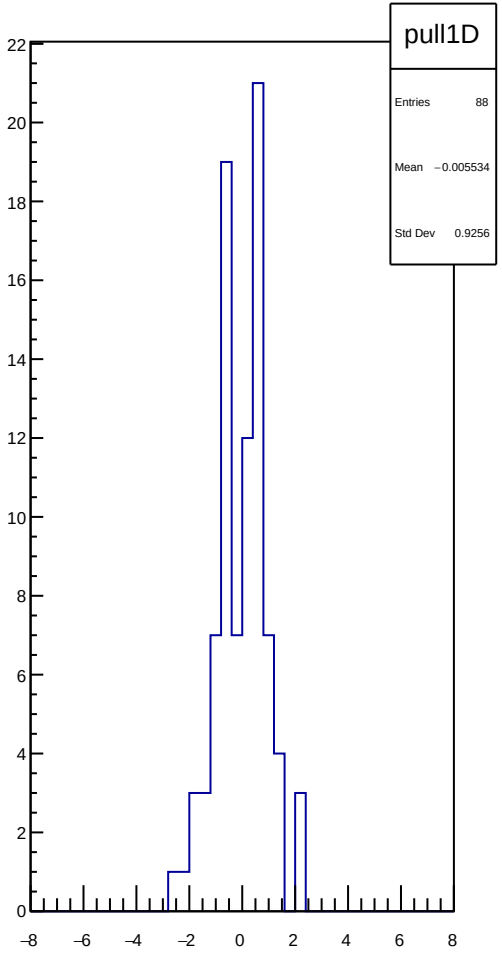

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.9 / 87
p0 44.26 ± 1.461
pull
Entries 88
Mean 182.5
Std Dev 0

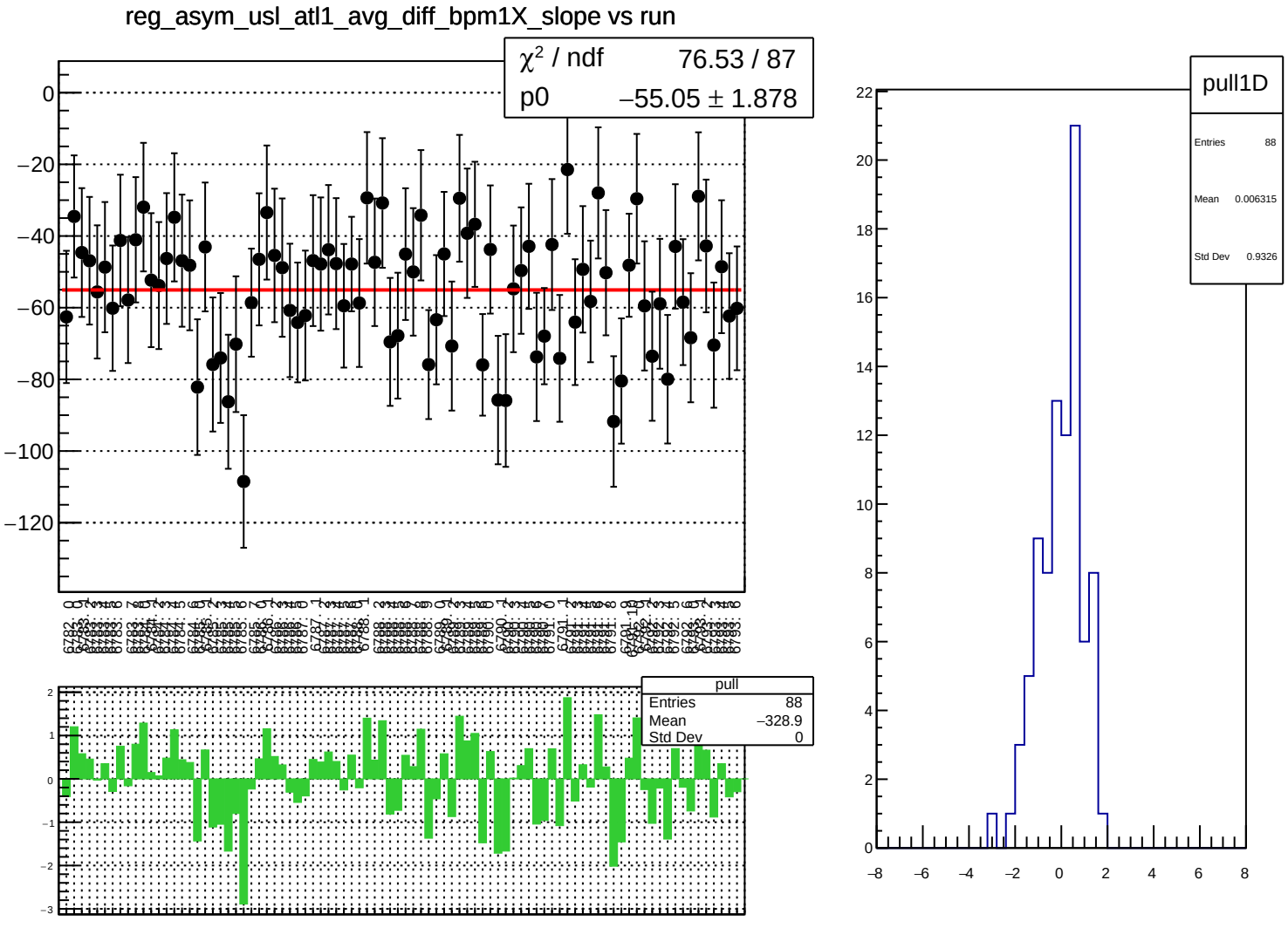

pull1D
Entries 88
Mean −0.008113
Std Dev 0.8387

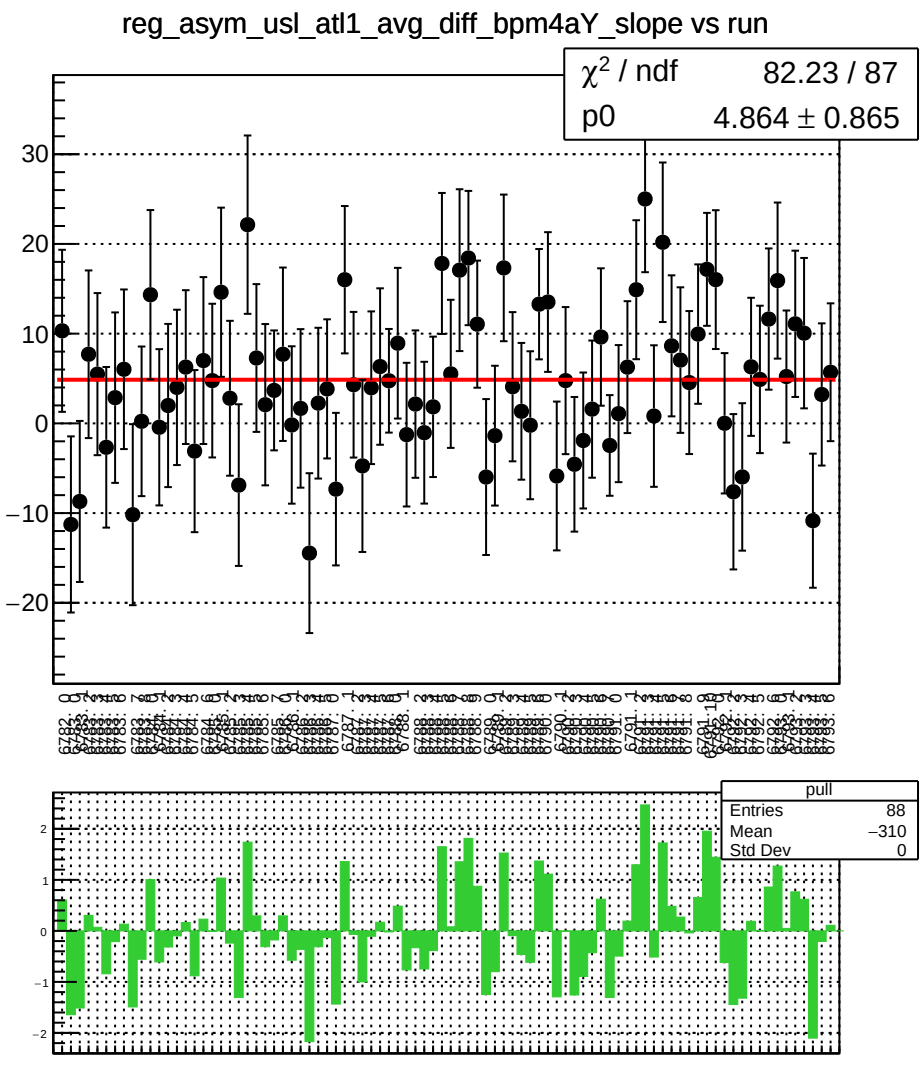

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.87 / 87
p0 −5.917 ± 0.9884
pull
Entries 88
Mean −609.1
Std Dev 0

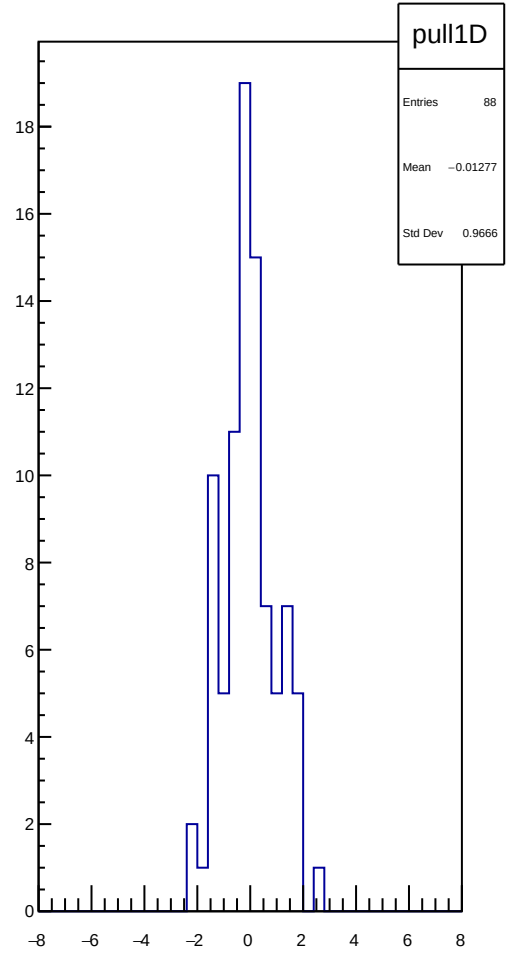

pull1D
Entries 88
Mean −0.003637
Std Dev 0.8717

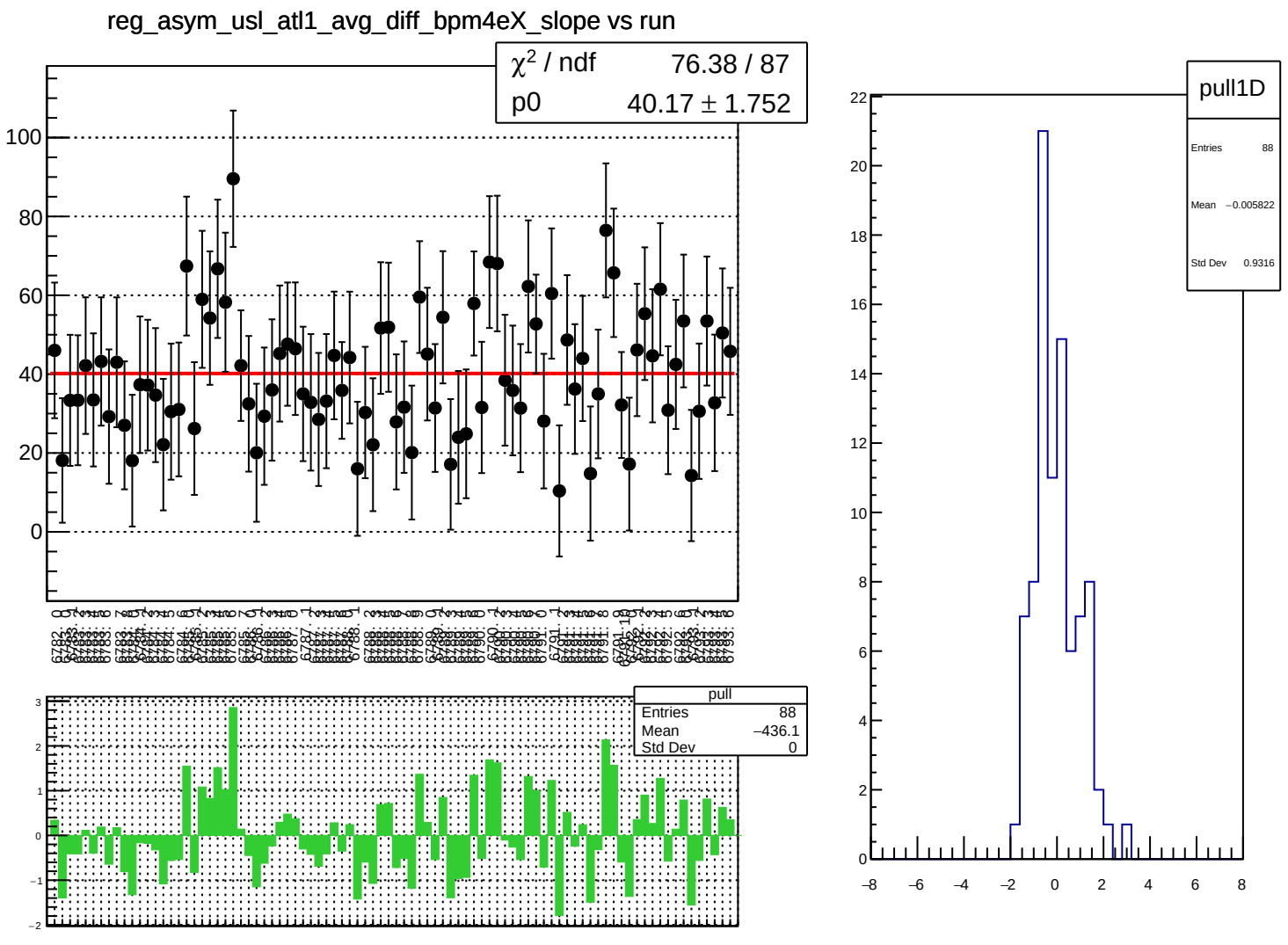

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 75.4 / 87
p0 6.932 ± 0.06483
pull
Entries 88
Mean 63.16
Std Dev 56.02

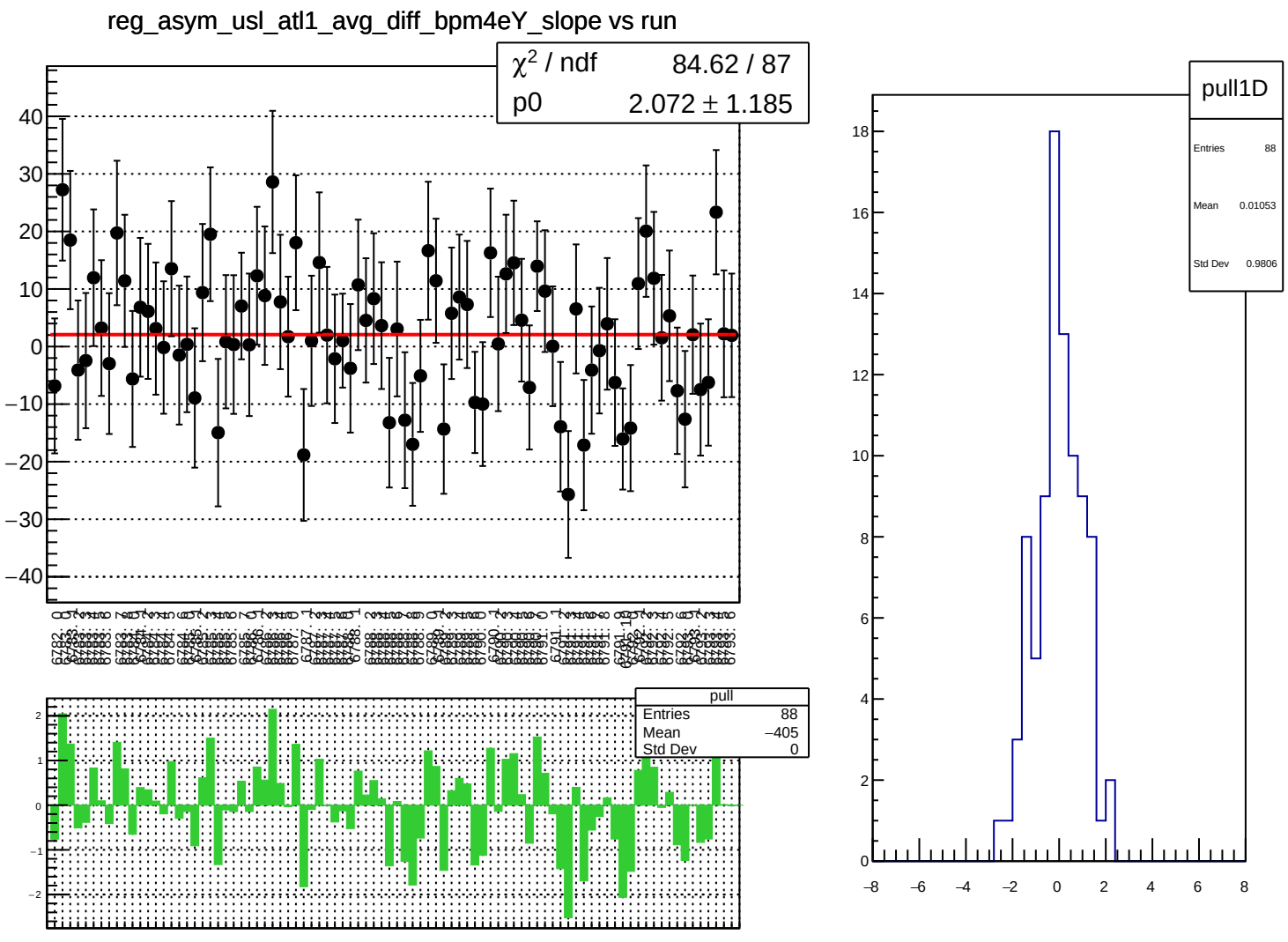

pull1D
Entries 88
Mean −0.005534
Std Dev 0.9256

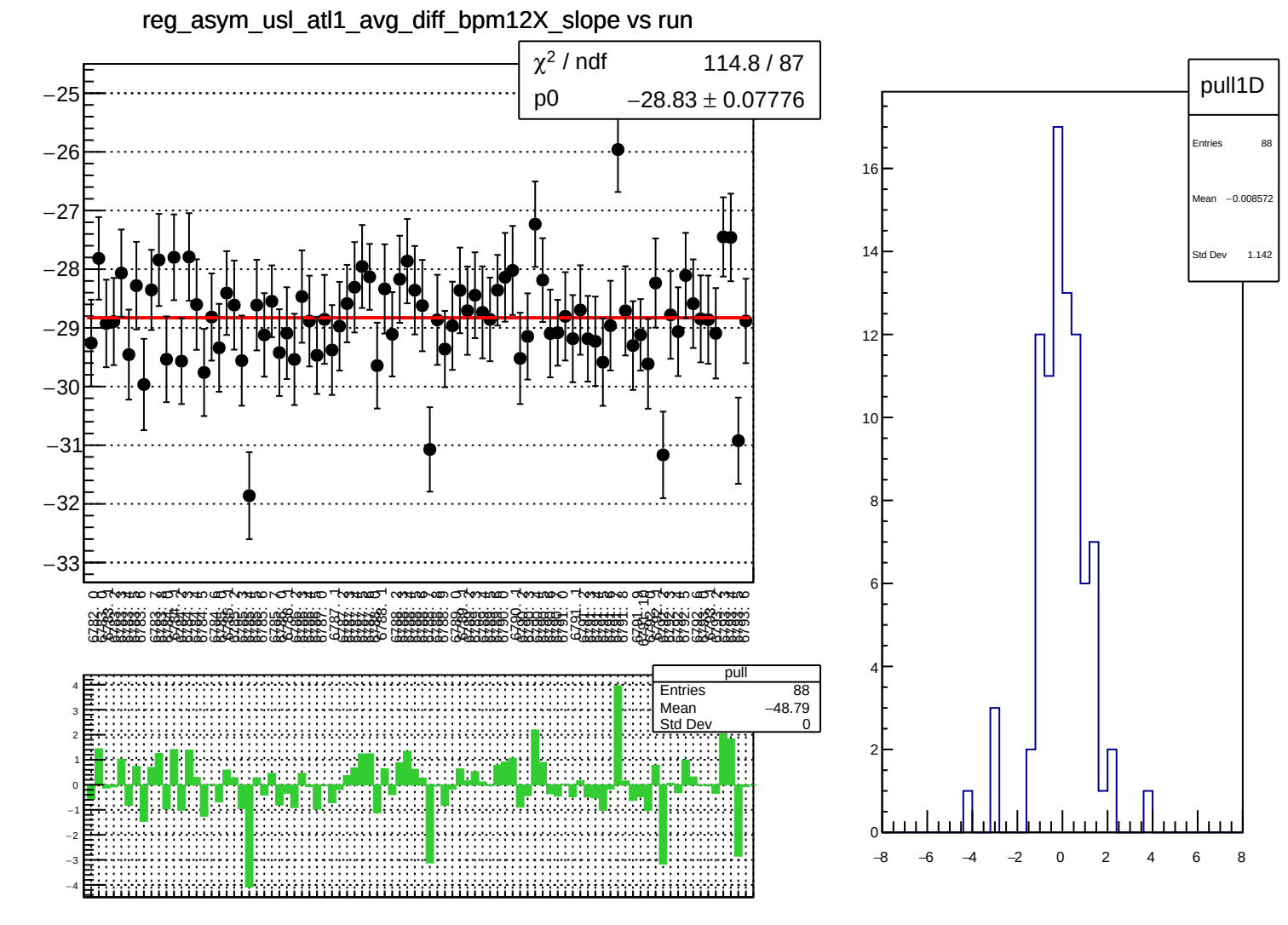

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 76.53 / 87
p0 −55.05 ± 1.878
pull
Entries 88
Mean −328.9
Std Dev 0
pull1D
Entries 88
Mean 0.006315
Std Dev 0.9326

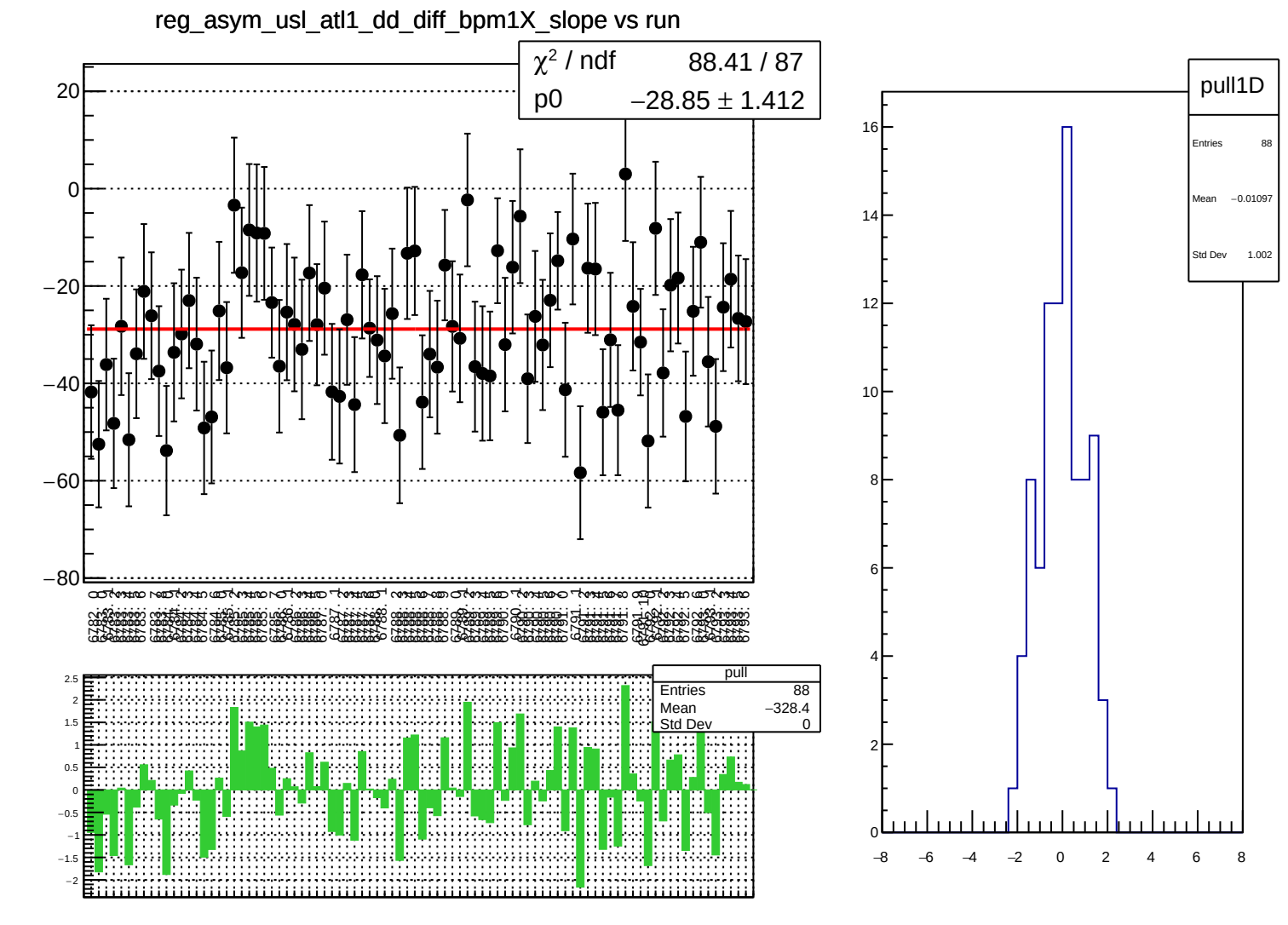

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.23 / 87
p0 4.864 ± 0.865
pull
Entries 88
Mean −310
Std Dev 0

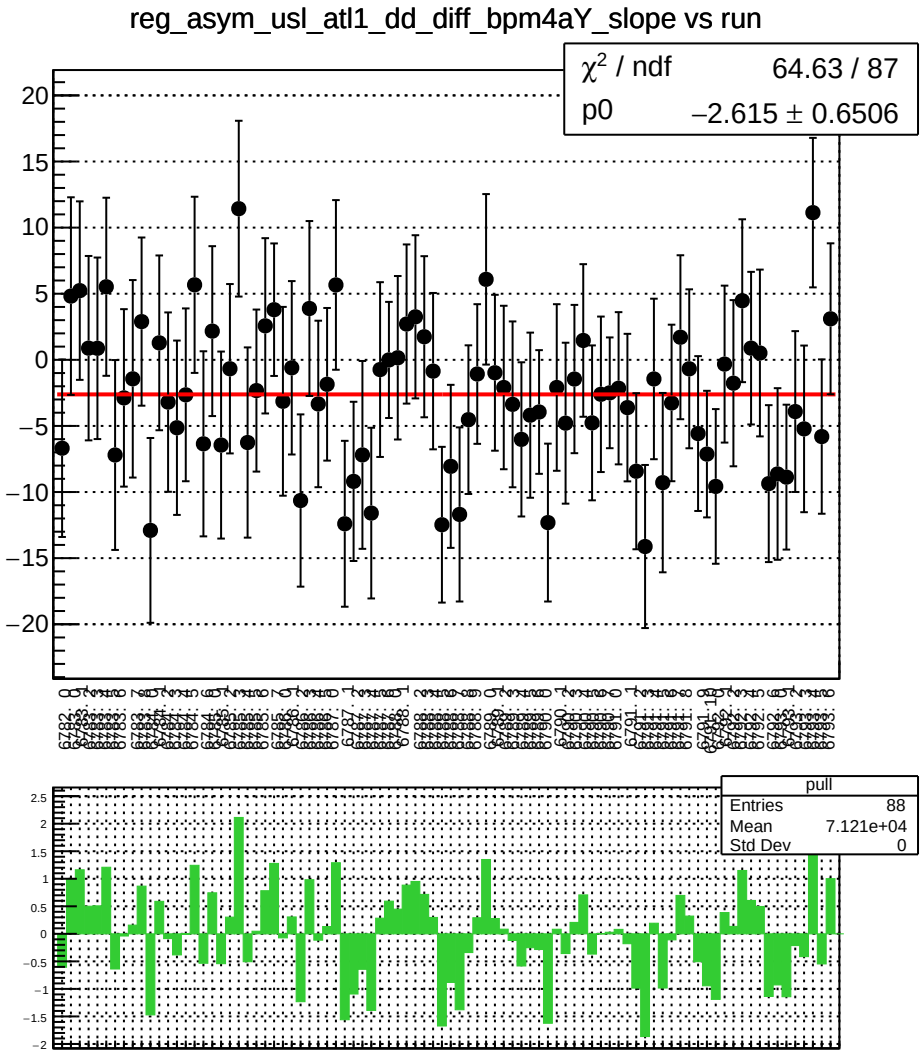

pull1D
Entries 88
Mean −0.01277
Std Dev 0.9666

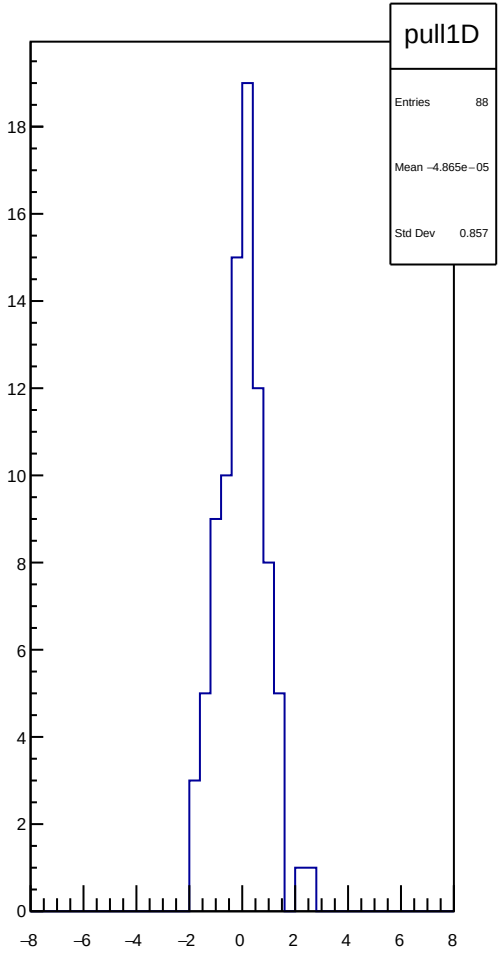

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.38 / 87
p0 40.17 ± 1.752
pull
Entries 88
Mean −436.1
Std Dev 0
pull1D
Entries 88
Mean −0.005822
Std Dev 0.9316

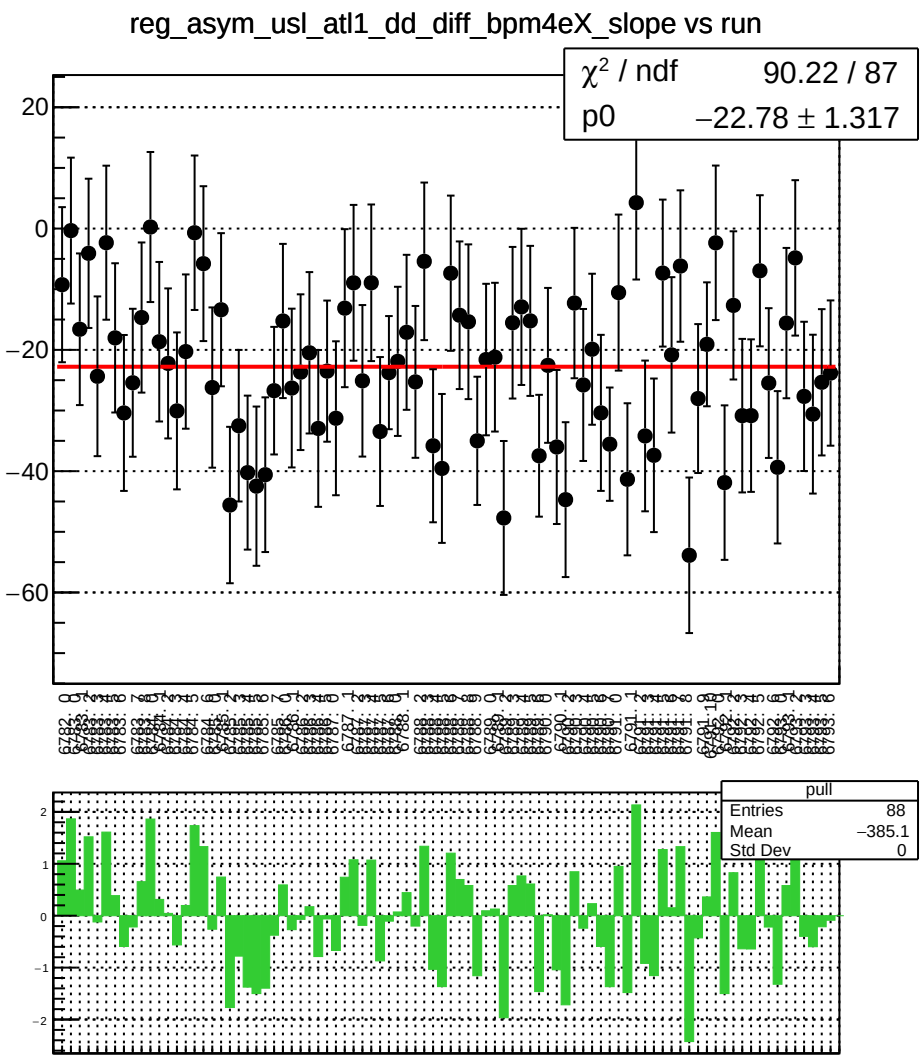

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.62 / 87
p0 2.072 ± 1.185
pull
Entries 88
Mean −405
Std Dev 0
pull1D
Entries 88
Mean 0.01053
Std Dev 0.9806

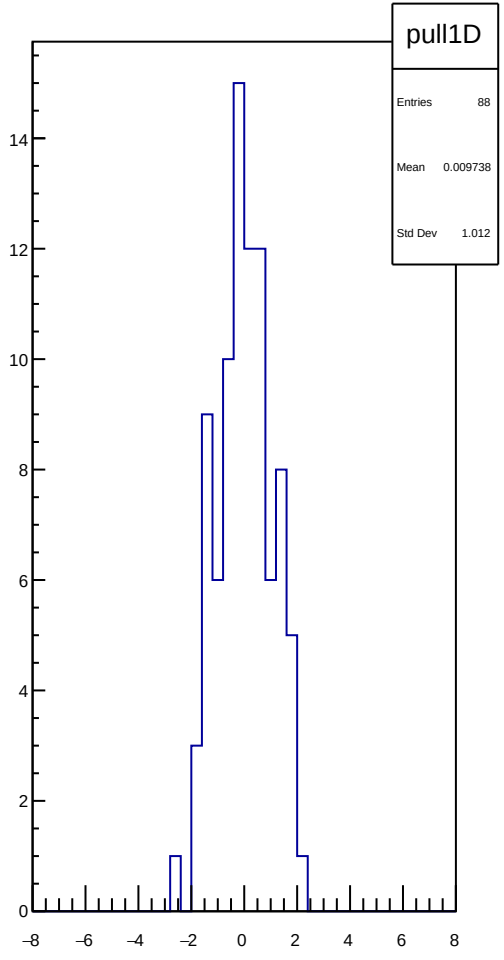

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 114.8 / 87
p0 −28.83 ± 0.07776
pull
Entries 88
Mean −48.79
Std Dev 0
pull1D
Entries 88
Mean −0.008572
Std Dev 1.142

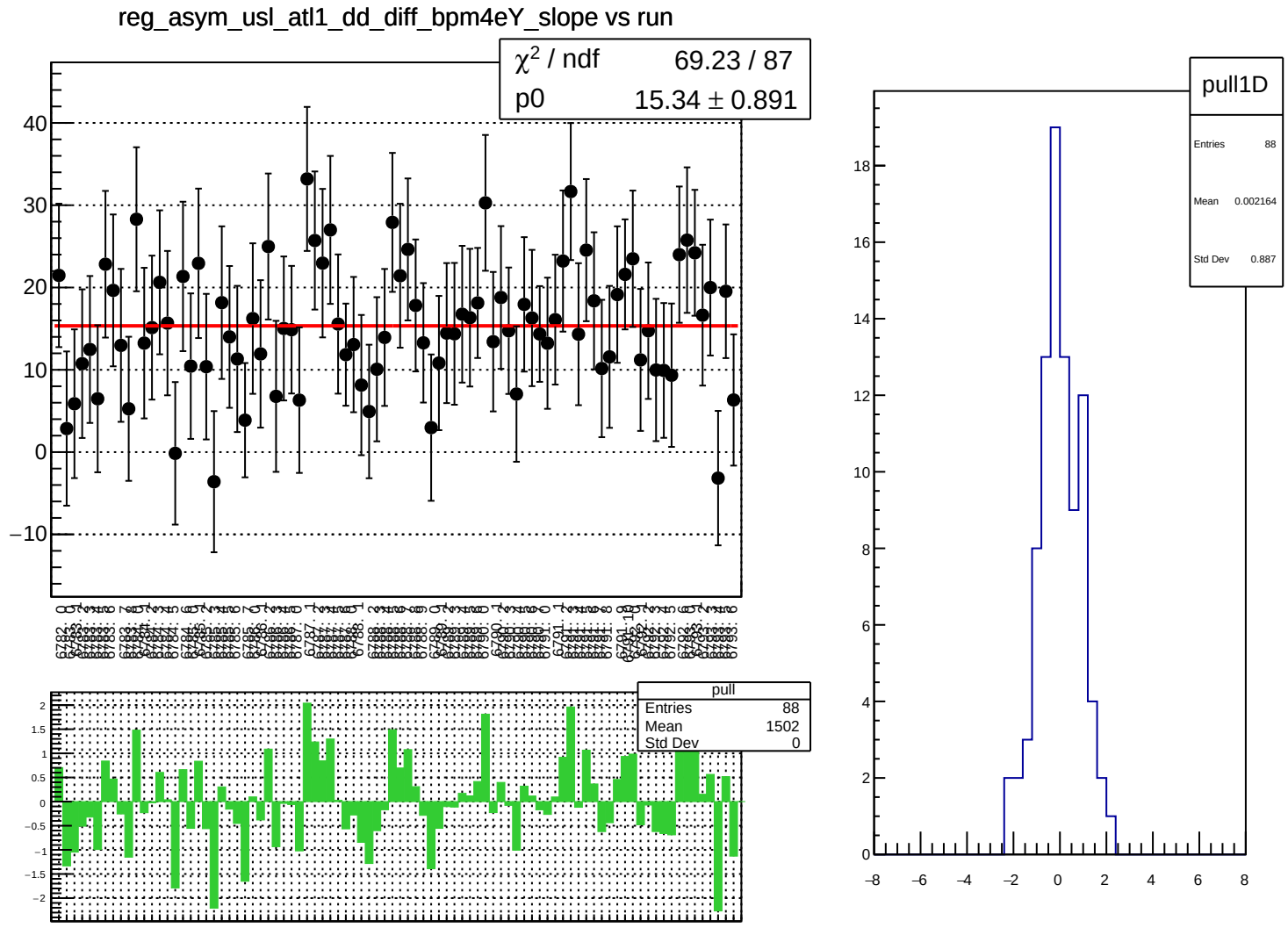

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 88.41 / 87
p0 −28.85 ± 1.412
pull
Entries 88
Mean −328.4
Std Dev 0
pull1D
Entries 88
Mean −0.01097
Std Dev 1.002

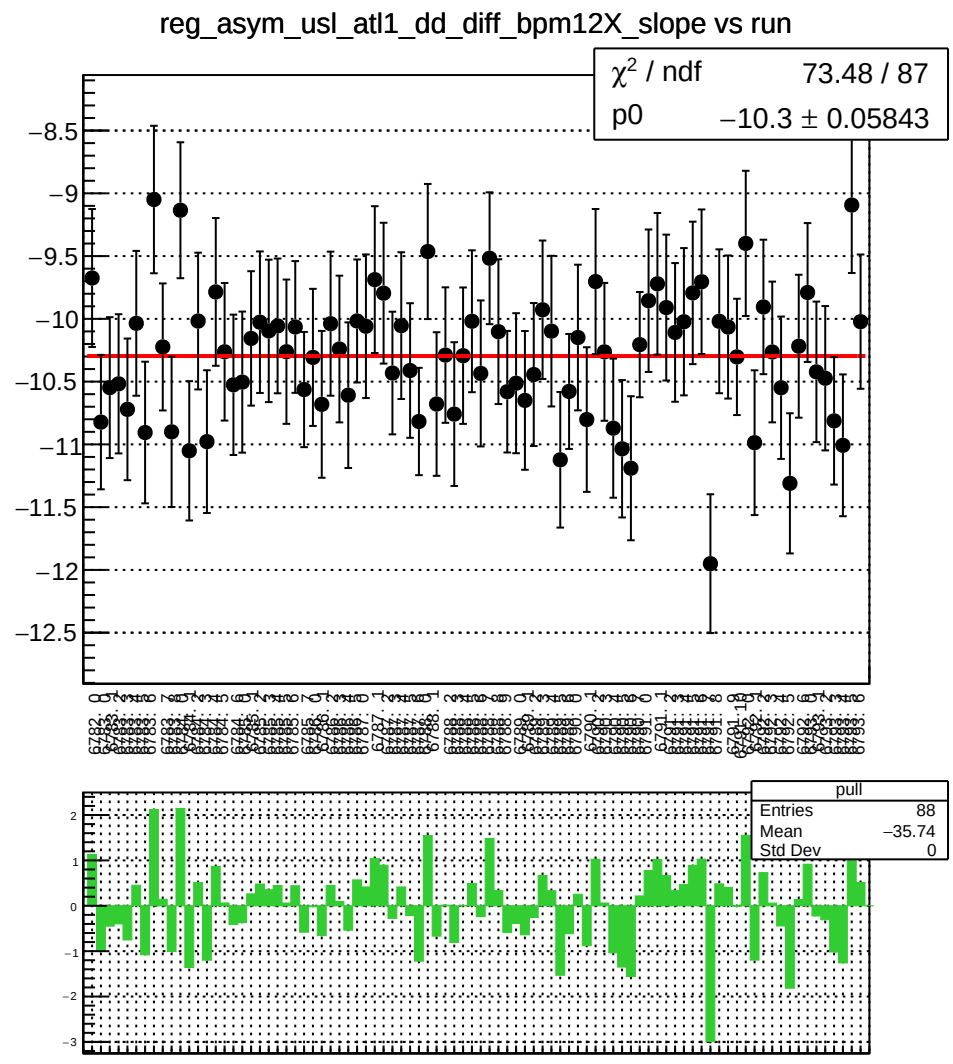

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.63 / 87
p0 −2.615 ± 0.6506
pull
Entries 88
Mean 7.121e+04
Std Dev 0

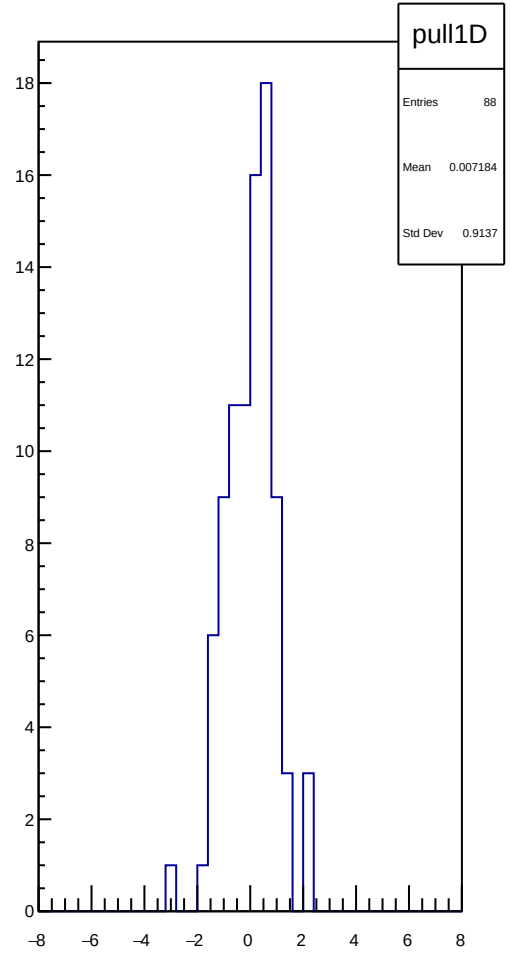

pull1D
Entries 88
Mean −4.865e−05
Std Dev 0.857

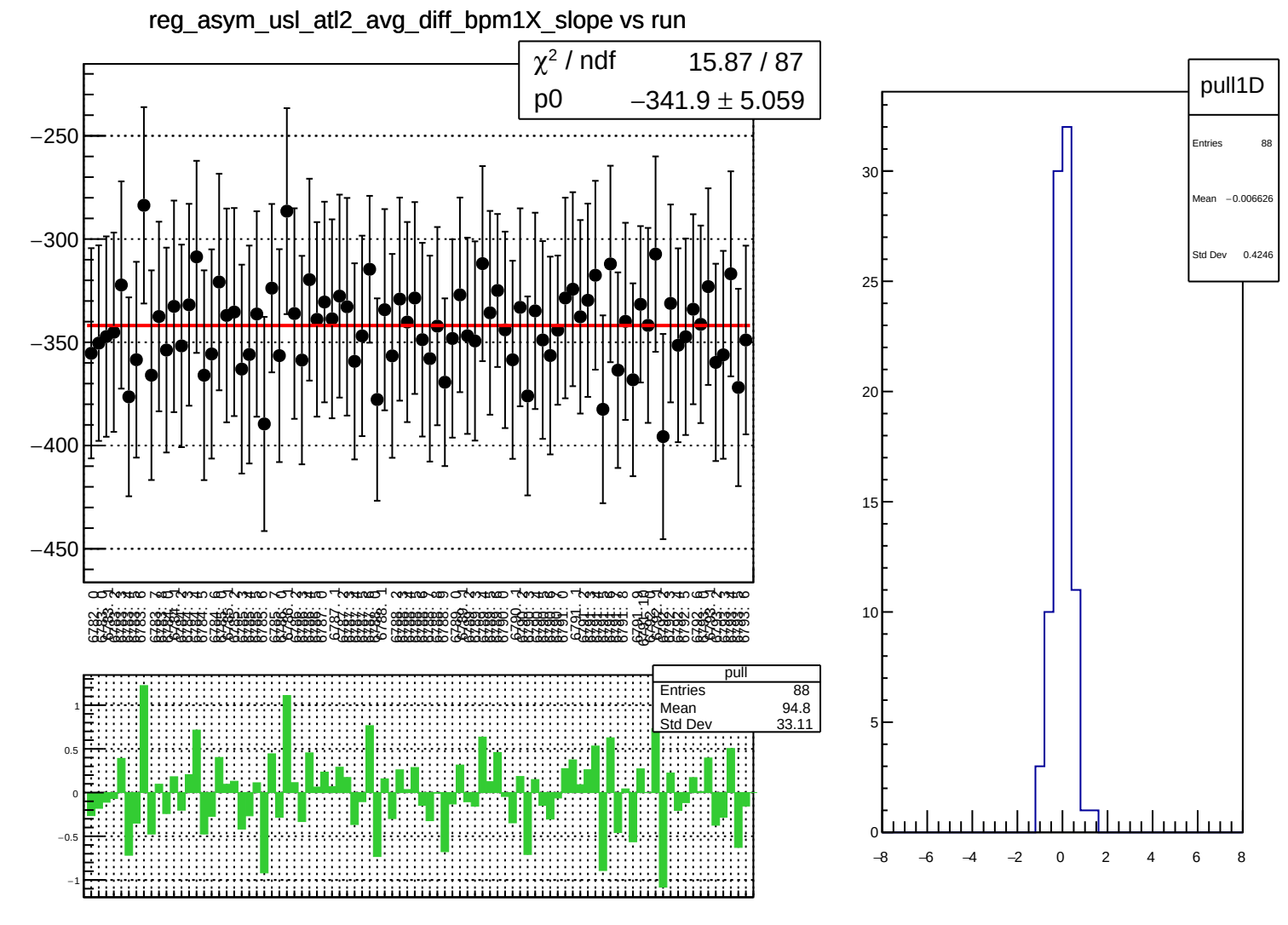

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.22 / 87
p0 −22.78 ± 1.317
20
0
−20
−40
−60
pull
Entries 88
Mean −385.1
Std Dev 0
2
1
0
−1
−2

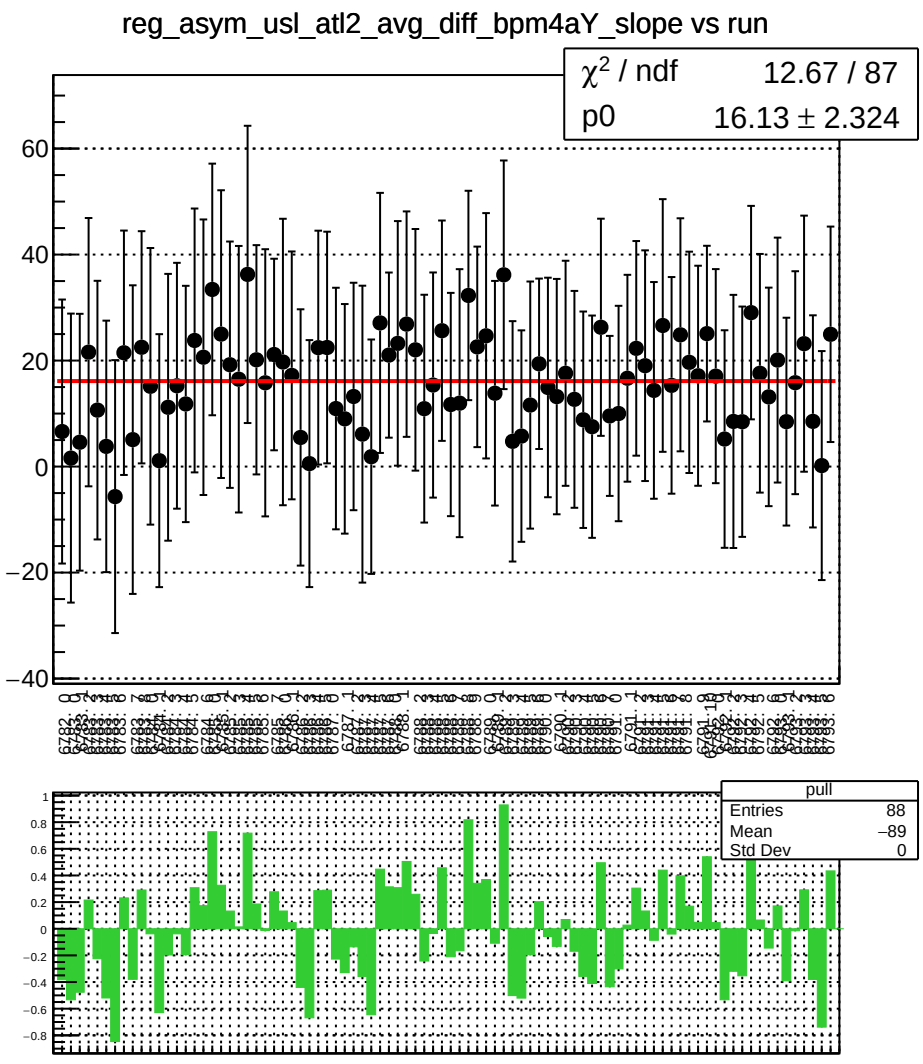

pull1D
Entries 88
Mean 0.009738
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

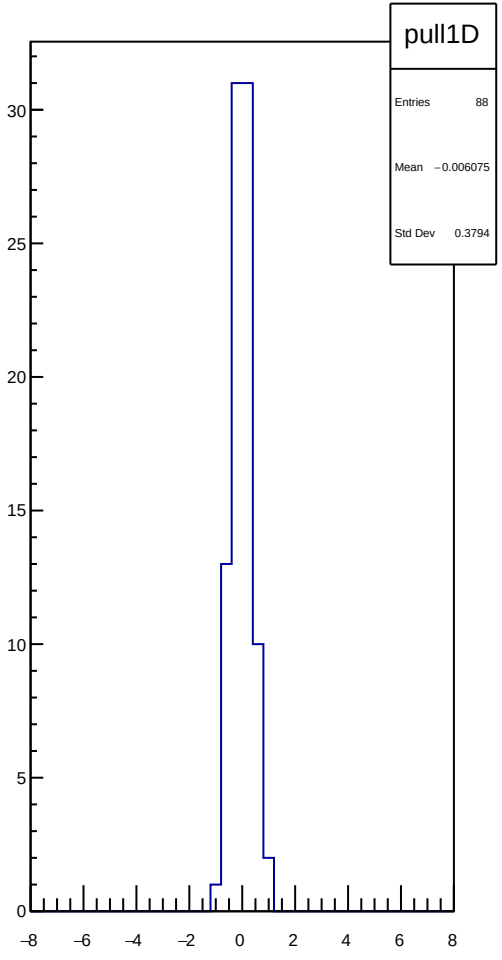

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.23 / 87
p0 15.34 ± 0.891
pull
Entries 88
Mean 1502
Std Dev 0
pull1D
Entries 88
Mean 0.002164
Std Dev 0.887

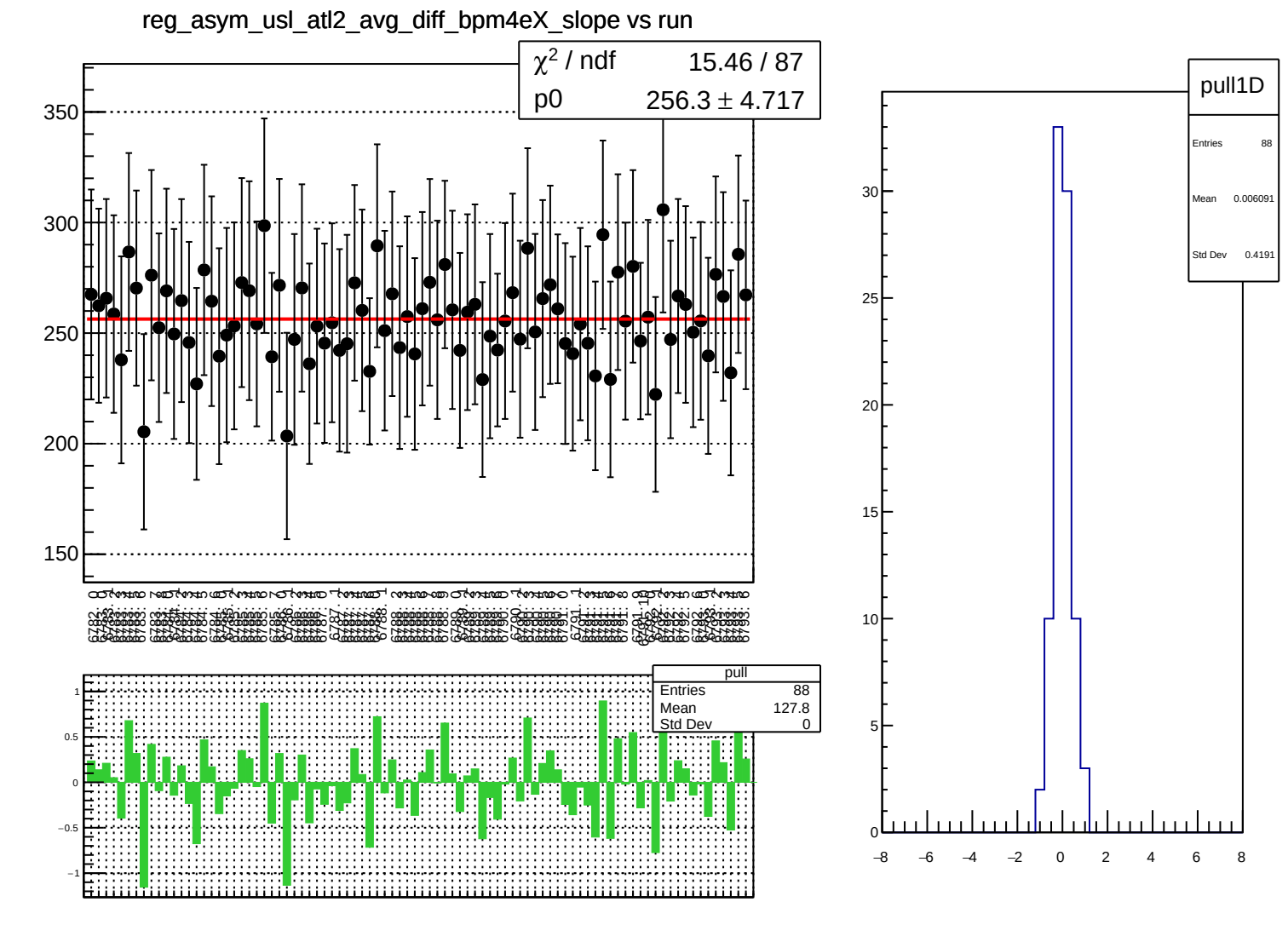

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 73.48 / 87
p0 −10.3 ± 0.05843
pull
Entries 88
Mean −35.74
Std Dev 0

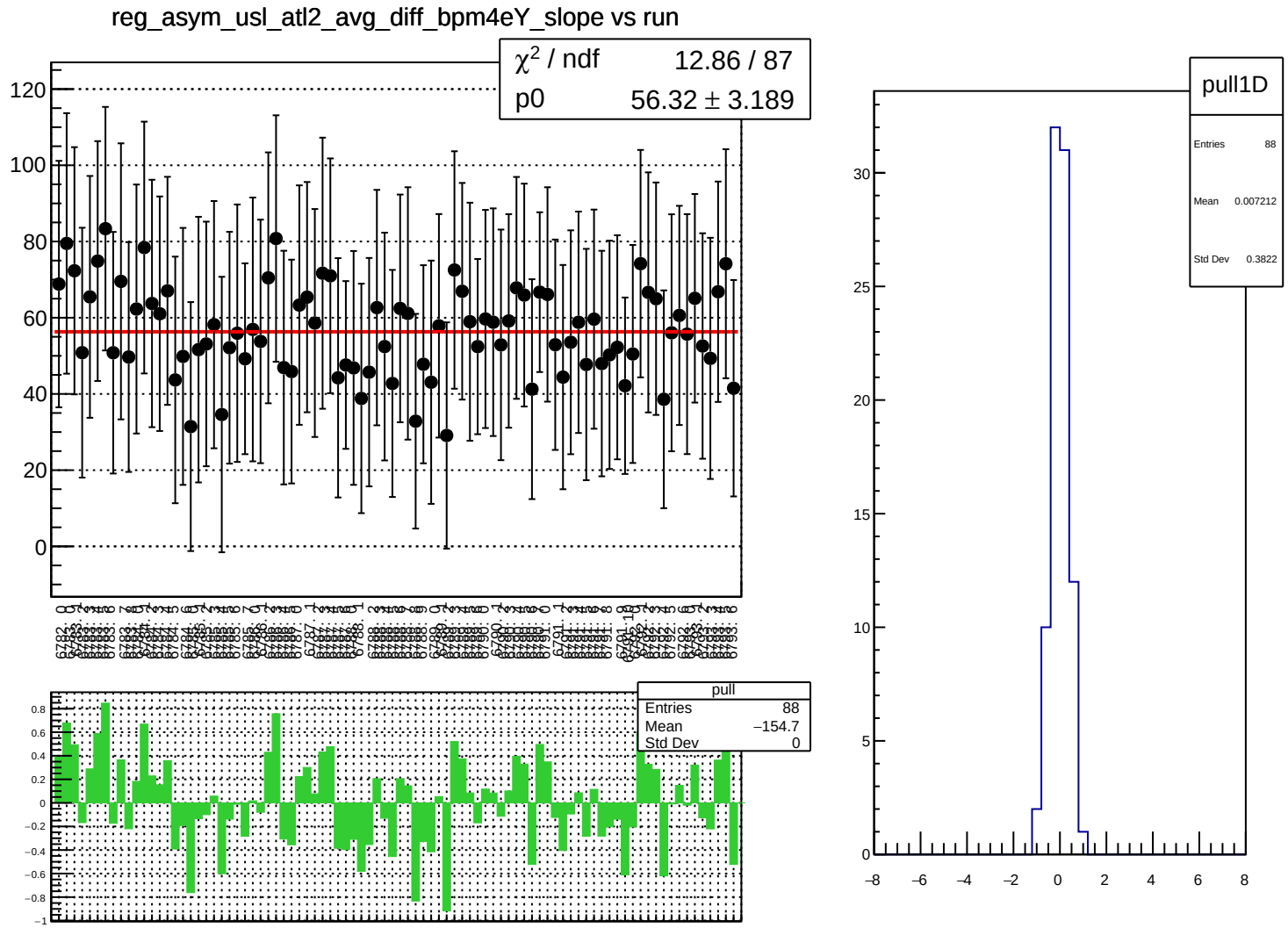

pull1D
Entries 88
Mean 0.007184
Std Dev 0.9137

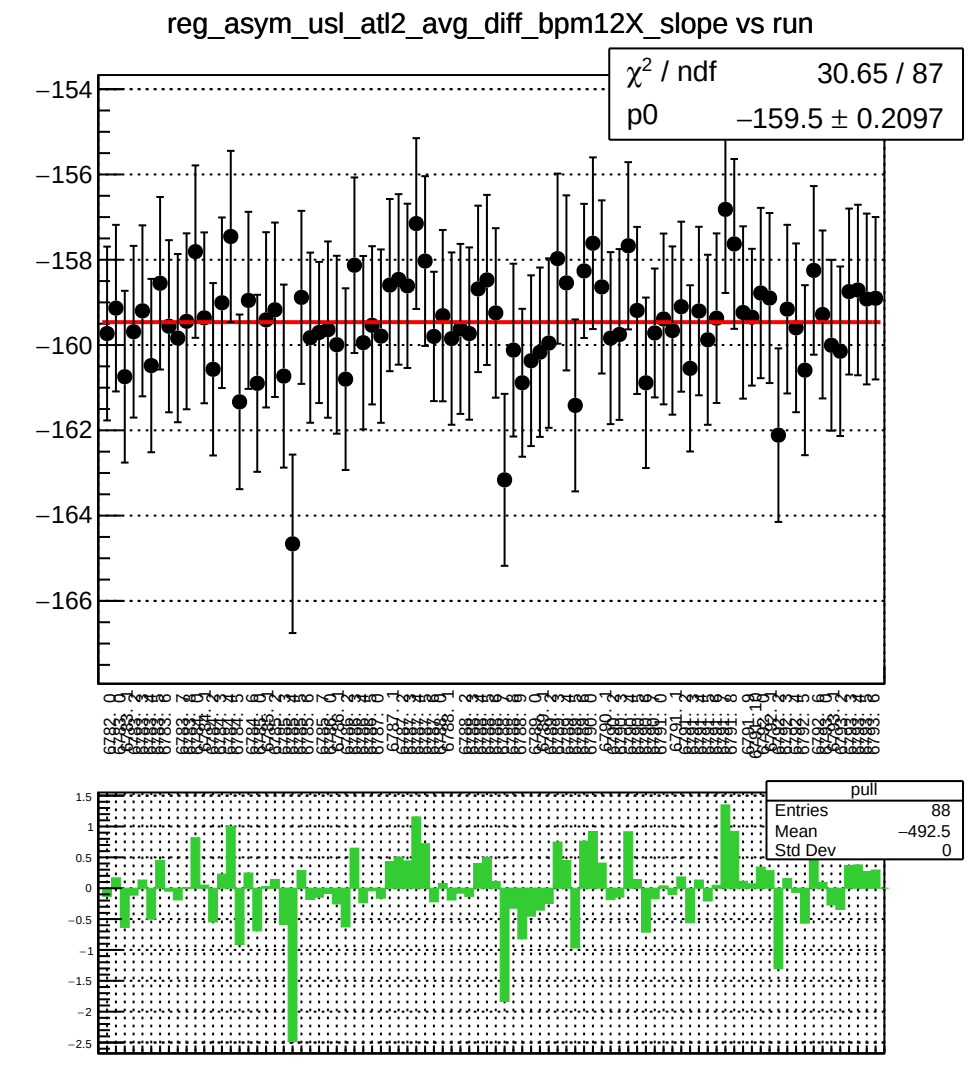

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.87 / 87
p0 −341.9 ± 5.059
−250
−300
−350
−400
−450
pull
Entries 88
Mean 94.8
Std Dev 33.11
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.006626
Std Dev 0.4246
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

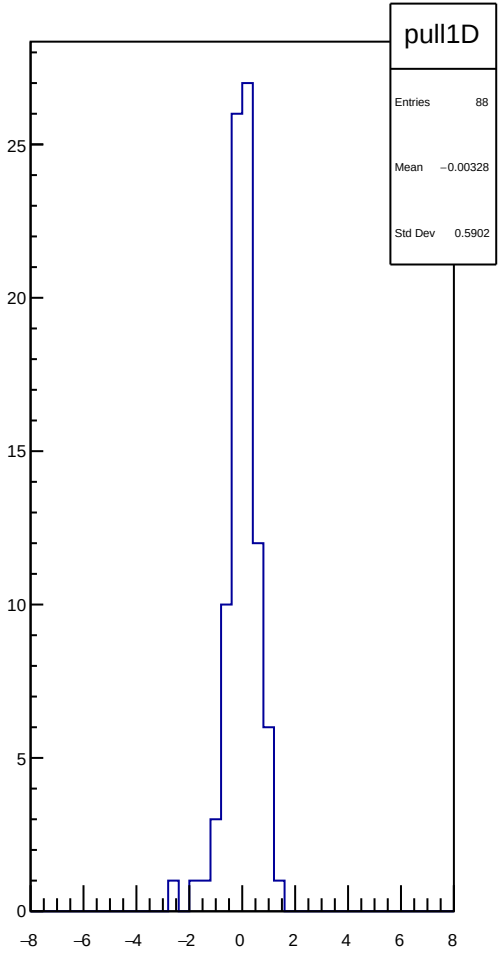

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.67 / 87
p0 16.13 ± 2.324
pull
Entries 88
Mean −89
Std Dev 0

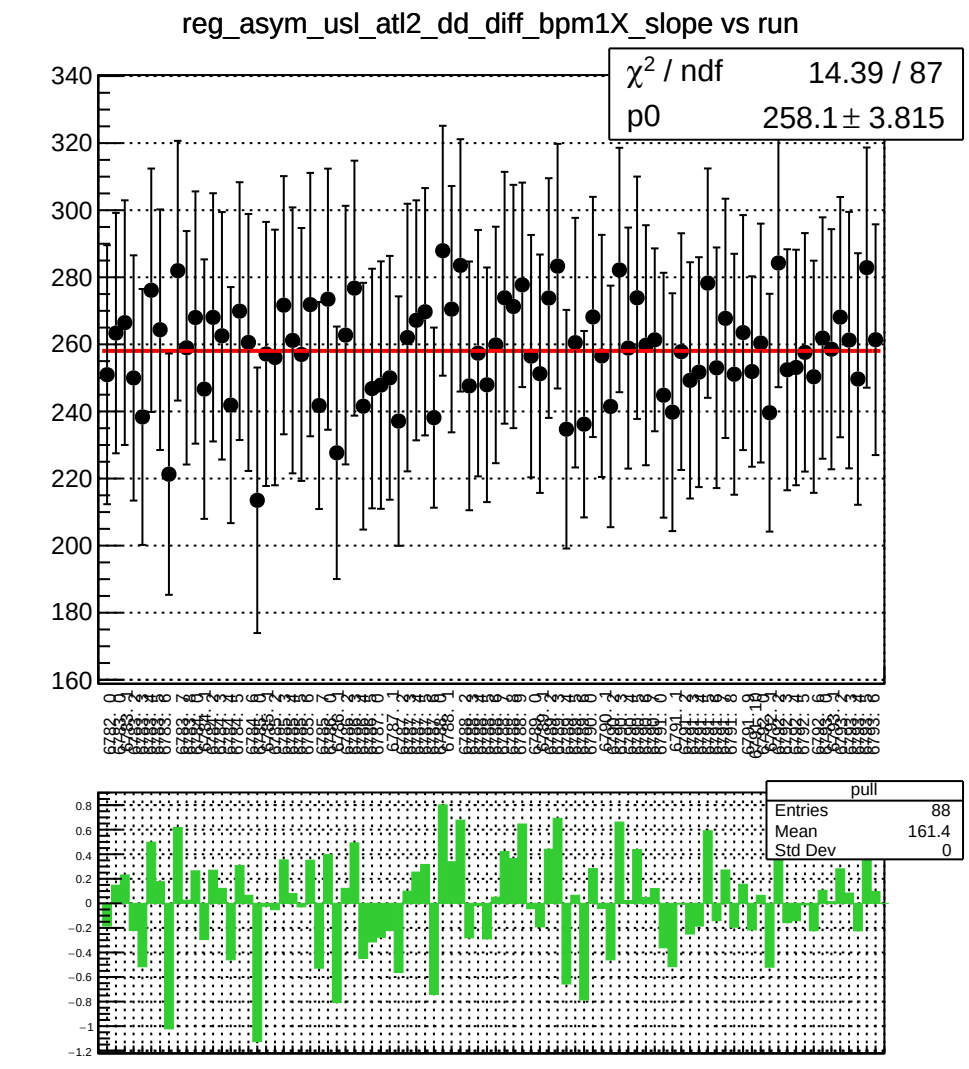

pull1D
Entries 88
Mean −0.006075
Std Dev 0.3794

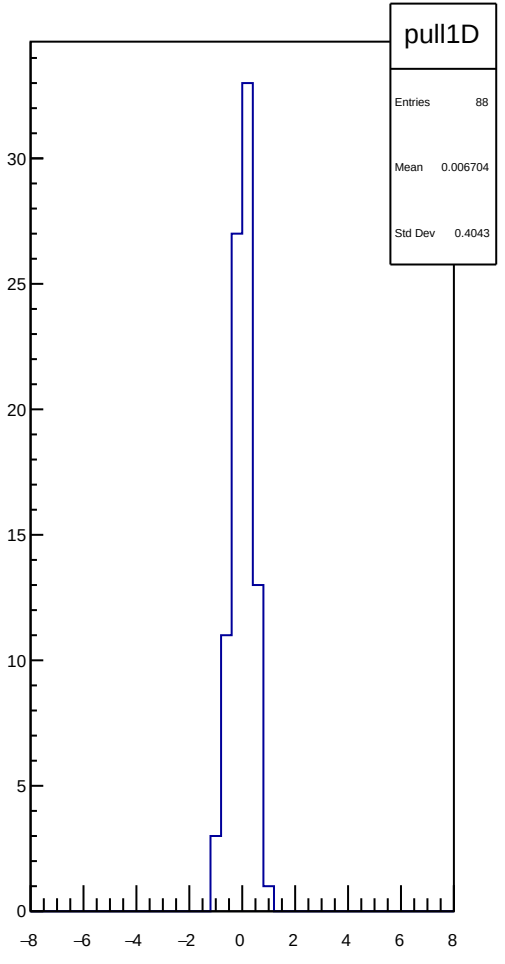

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.46 / 87
p0 256.3 ± 4.717
350
300
250
200
150
pull
Entries 88
Mean 127.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.006091
Std Dev 0.4191
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

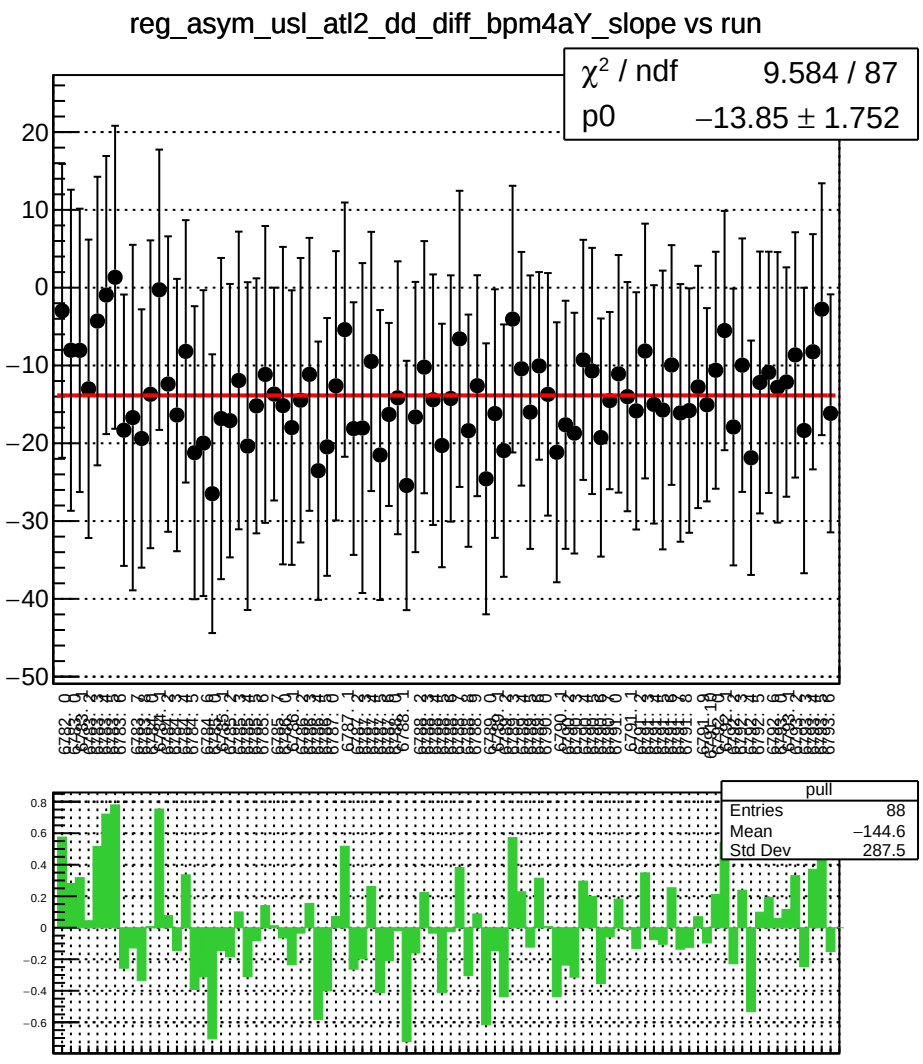

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.86 / 87
p0 56.32 ± 3.189
pull
Entries 88
Mean −154.7
Std Dev 0
pull1D
Entries 88
Mean 0.007212
Std Dev 0.3822

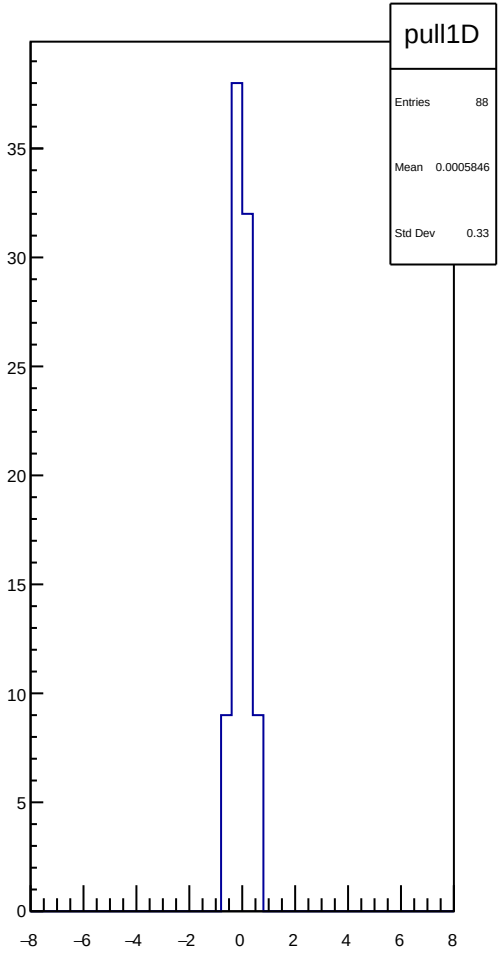

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 30.65 / 87
p0 −159.5 ± 0.2097
pull
Entries 88
Mean −492.5
Std Dev 0

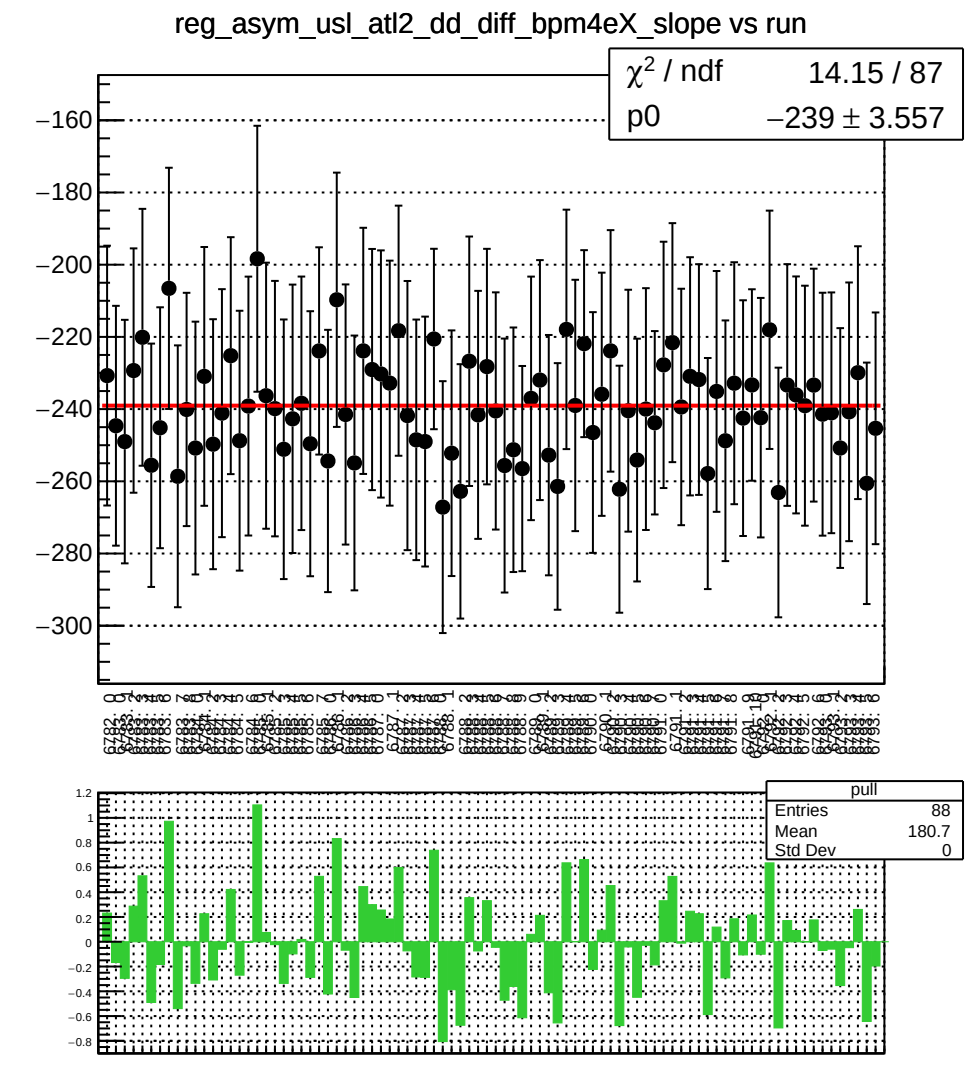

pull1D
Entries 88
Mean −0.00328
Std Dev 0.5902

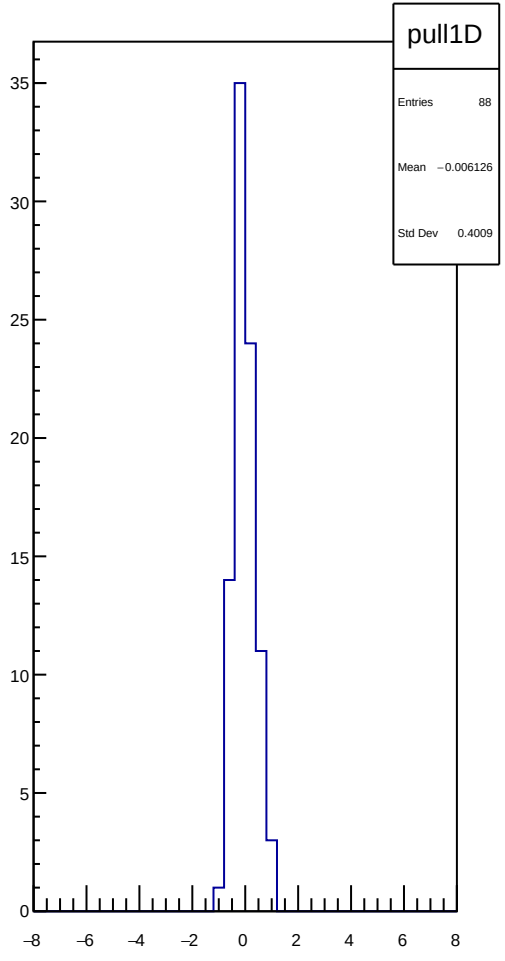

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 14.39 / 87
p0 258.1 ± 3.815
pull
Entries 88
Mean 161.4
Std Dev 0

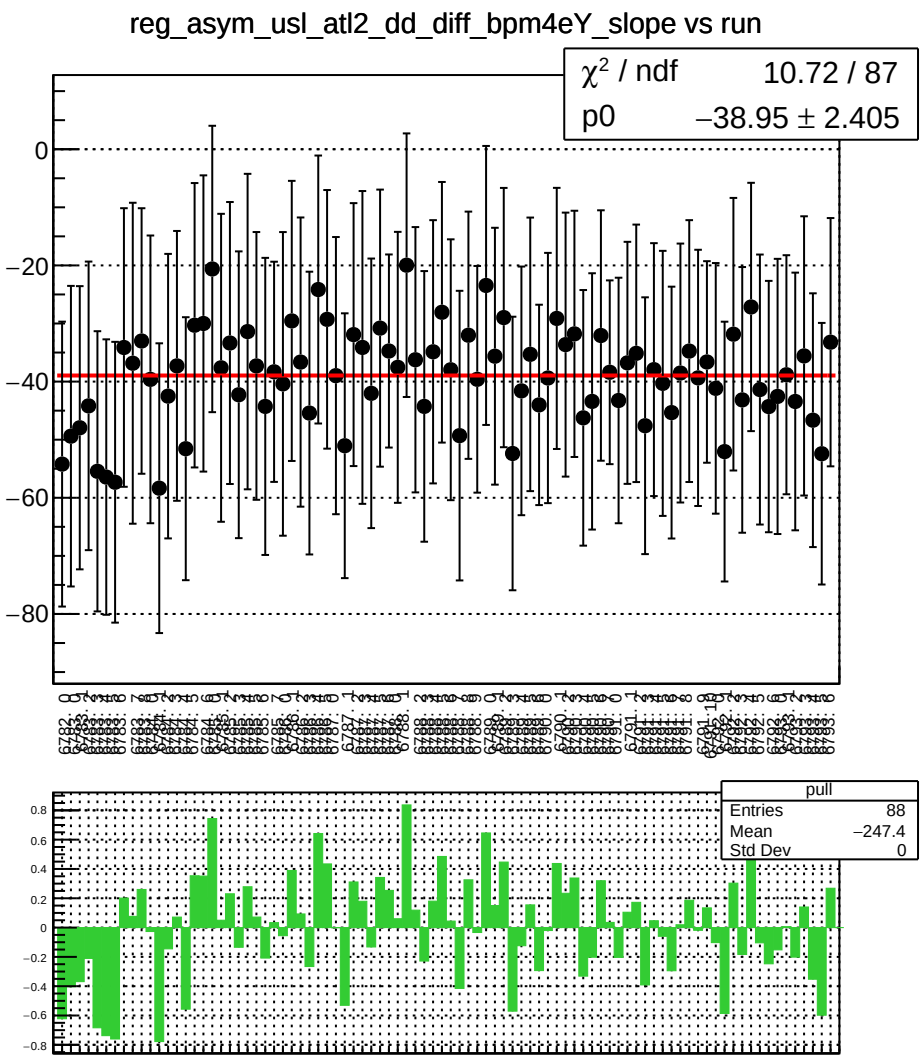

pull1D
Entries 88
Mean 0.006704
Std Dev 0.4043

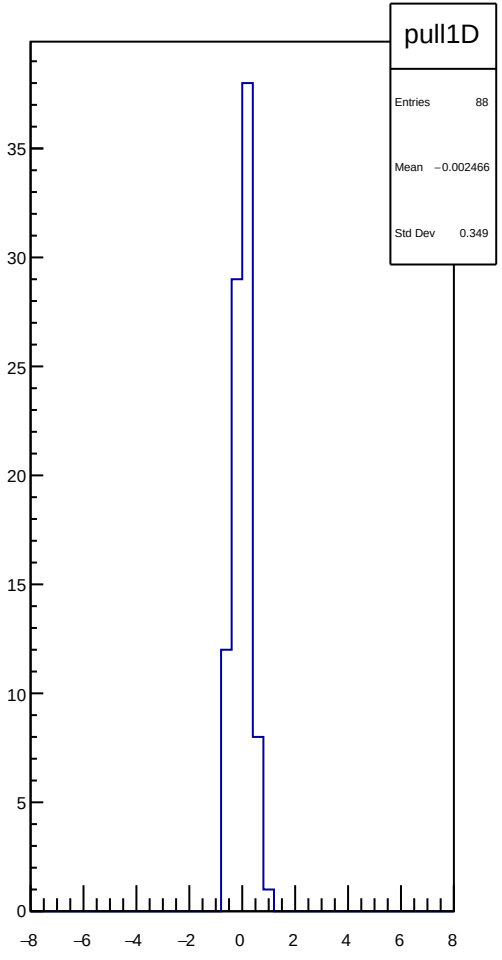

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.584 / 87
p0 −13.85 ± 1.752
pull
Entries 88
Mean −144.6
Std Dev 287.5

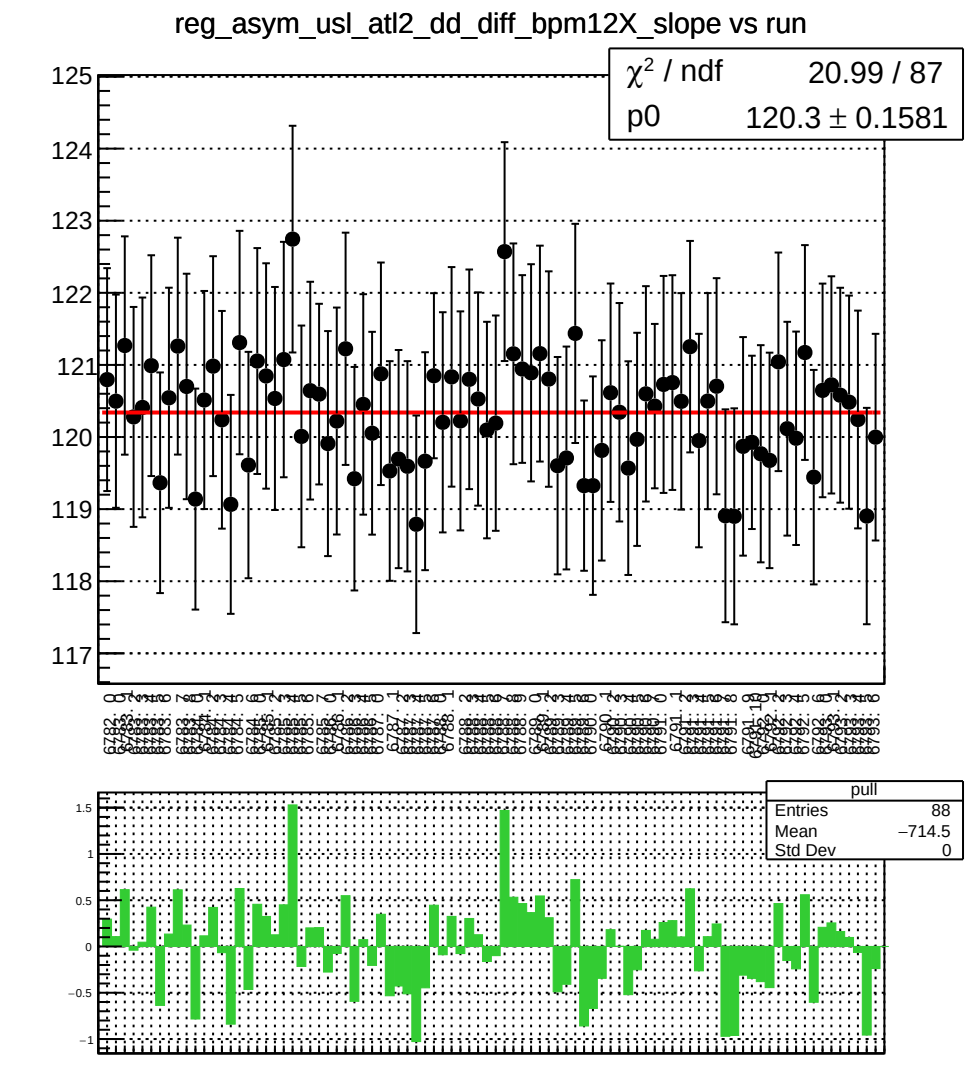

pull1D
Entries 88
Mean 0.0005846
Std Dev 0.33

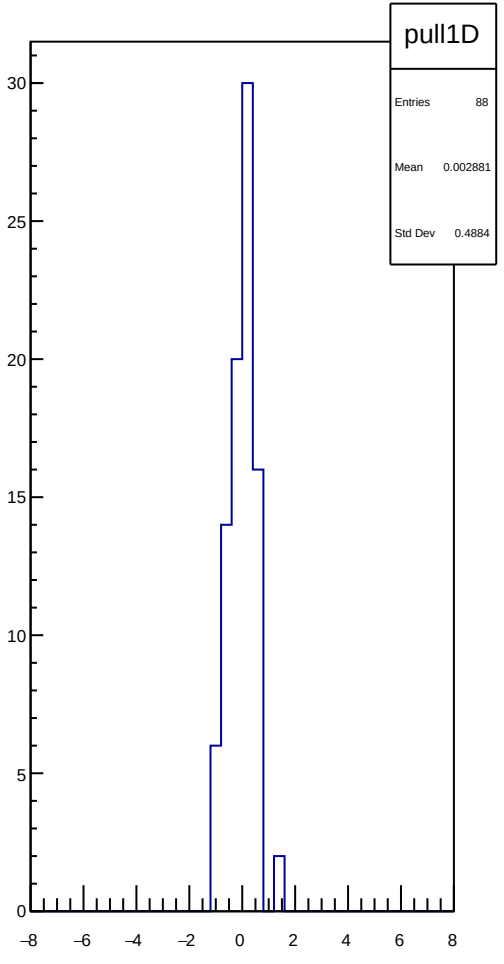

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.15 / 87
p0 −239 ± 3.557
pull
Entries 88
Mean 180.7
Std Dev 0

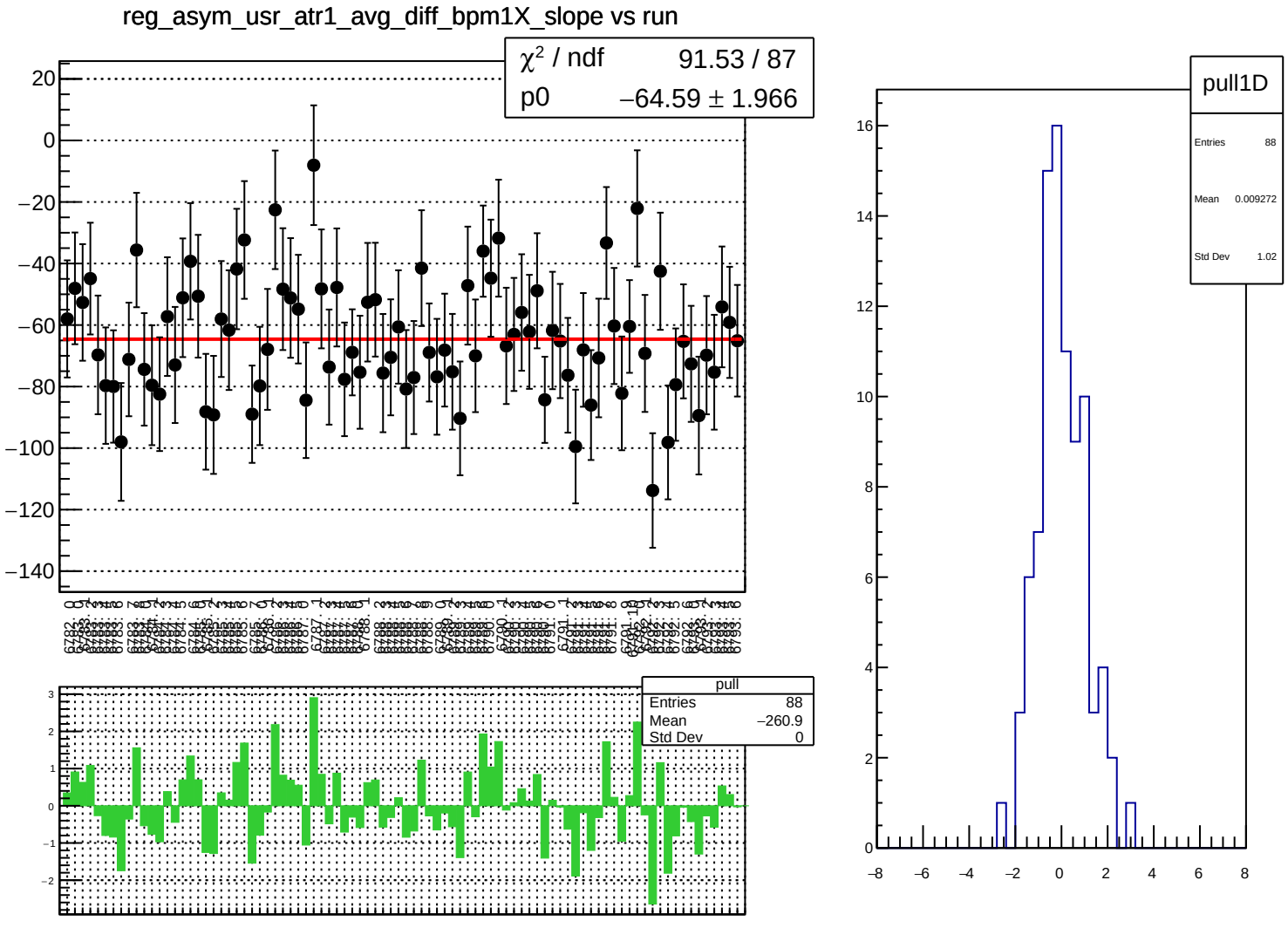

pull1D
Entries 88
Mean −0.006126
Std Dev 0.4009

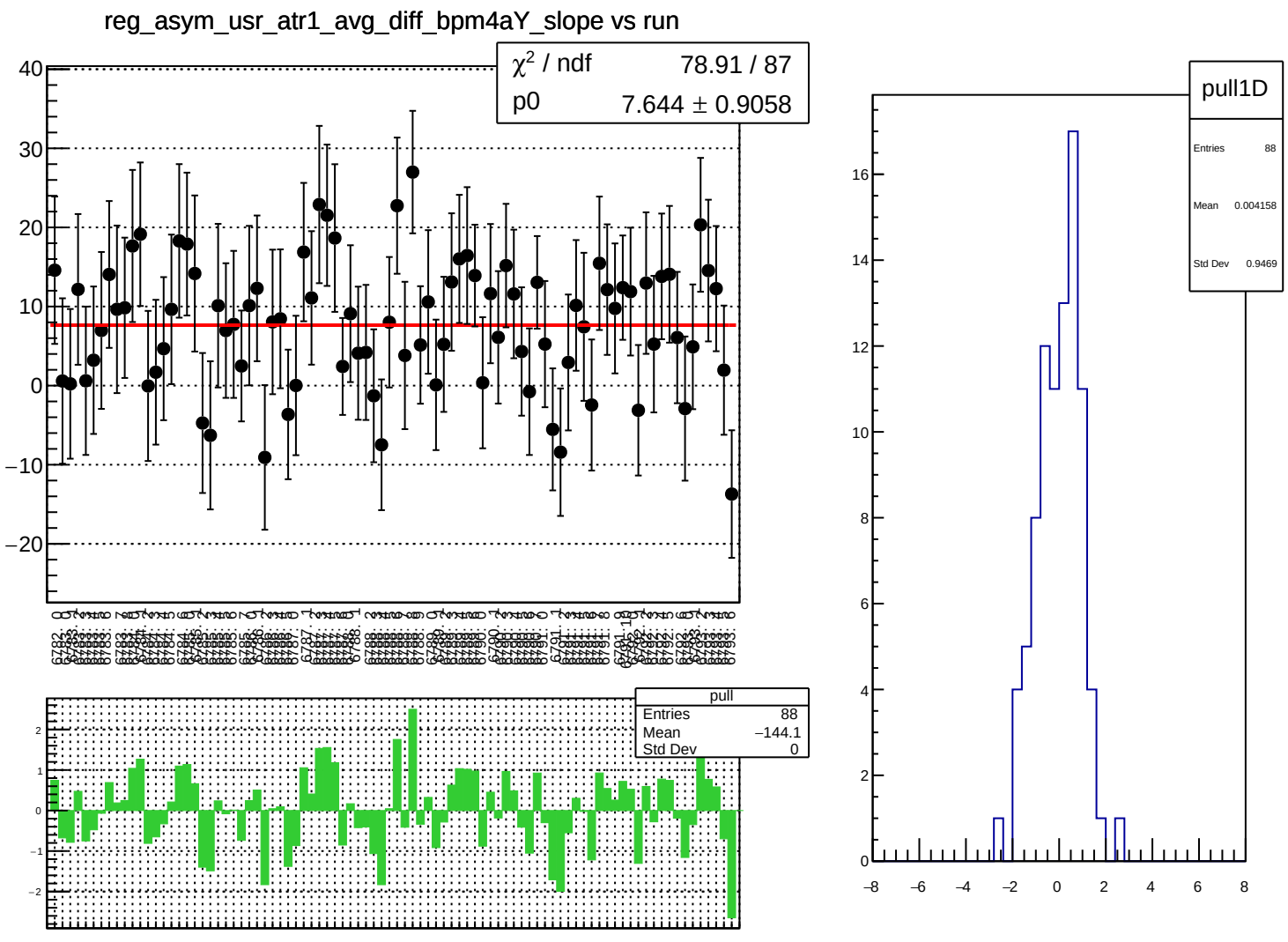

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.72 / 87
p0 −38.95 ± 2.405
pull
Entries 88
Mean −247.4
Std Dev 0

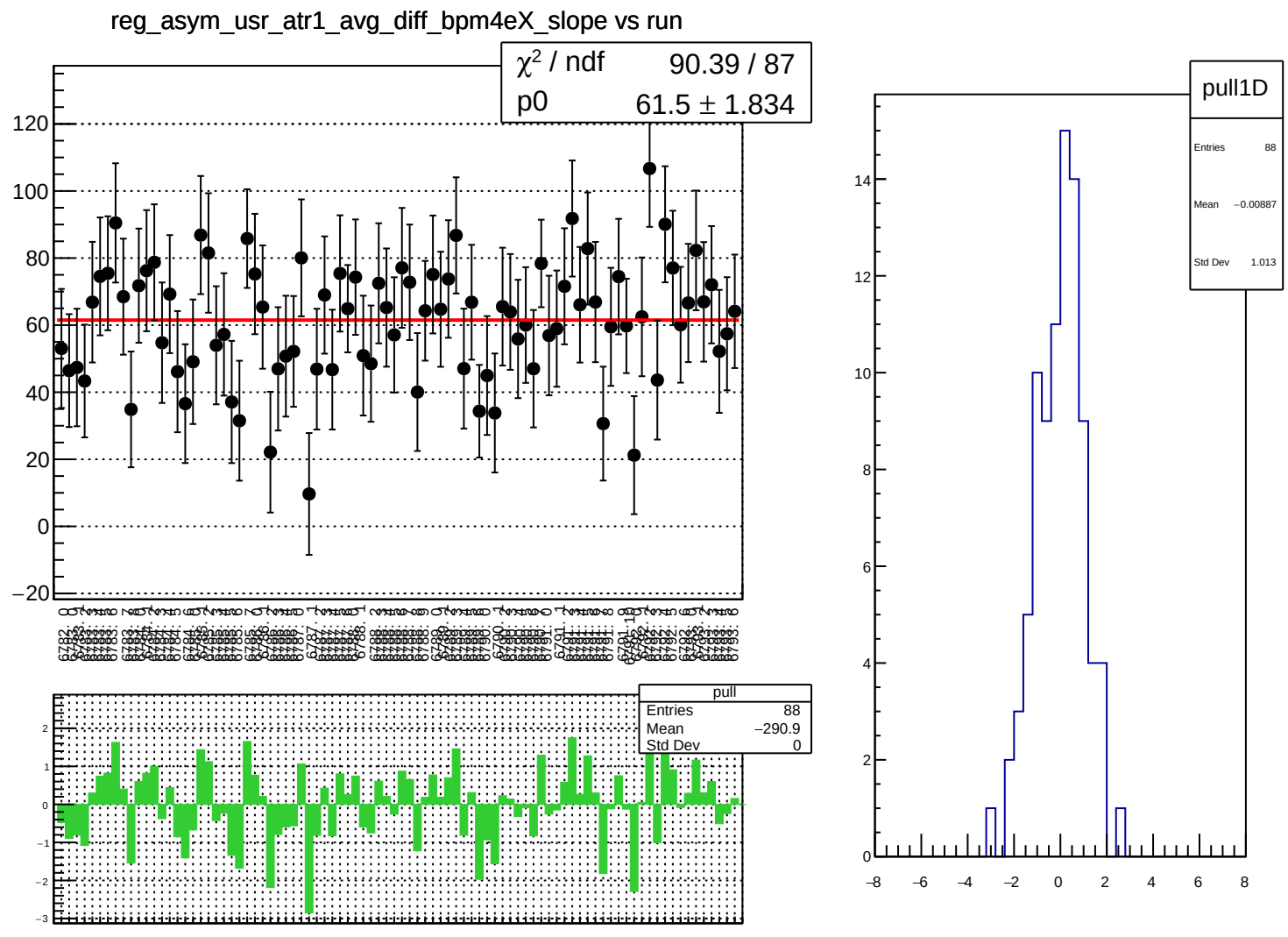

pull1D
Entries 88
Mean −0.002466
Std Dev 0.349

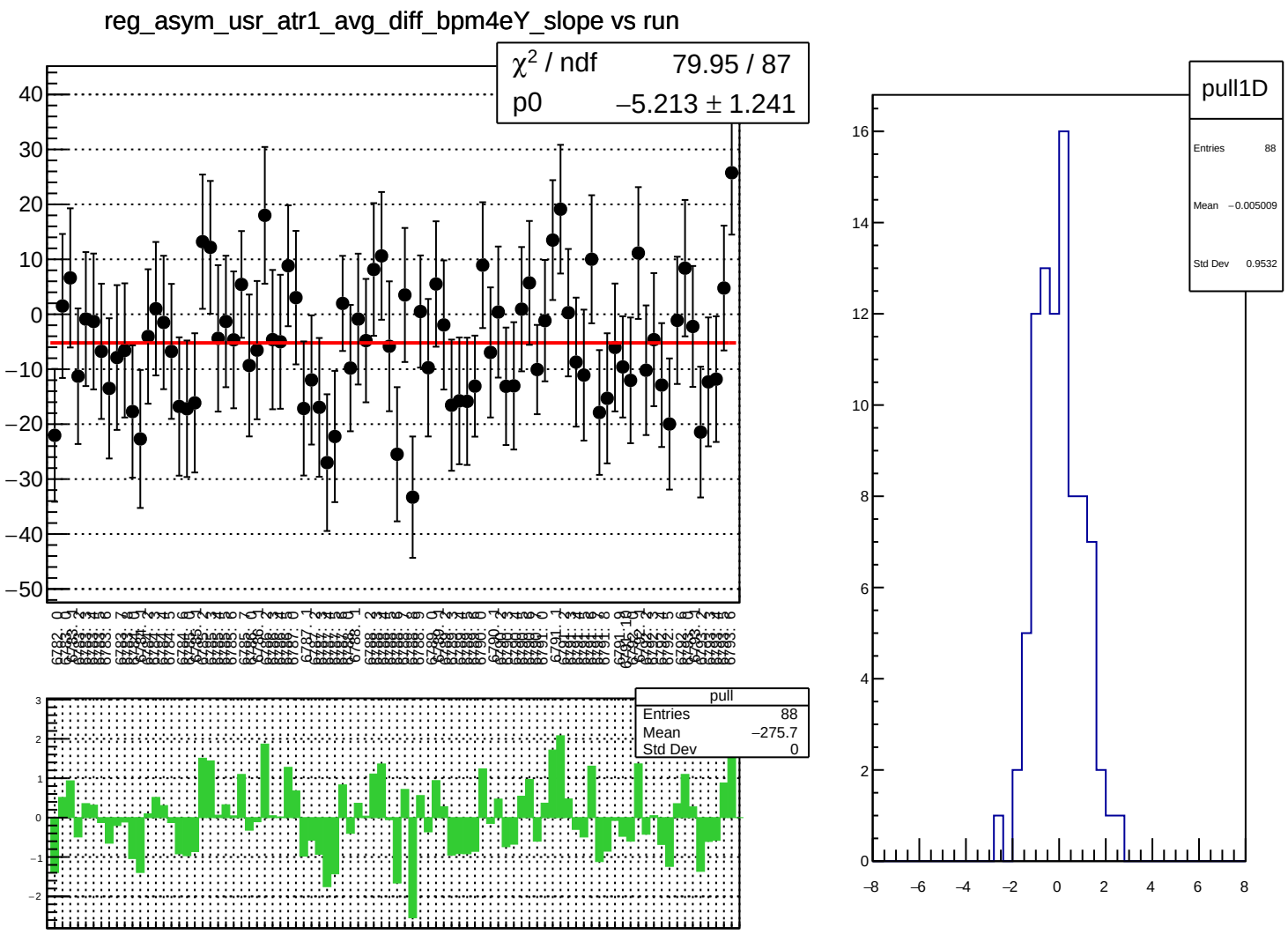

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.99 / 87
p0 120.3 ± 0.1581
pull
Entries 88
Mean −714.5
Std Dev 0

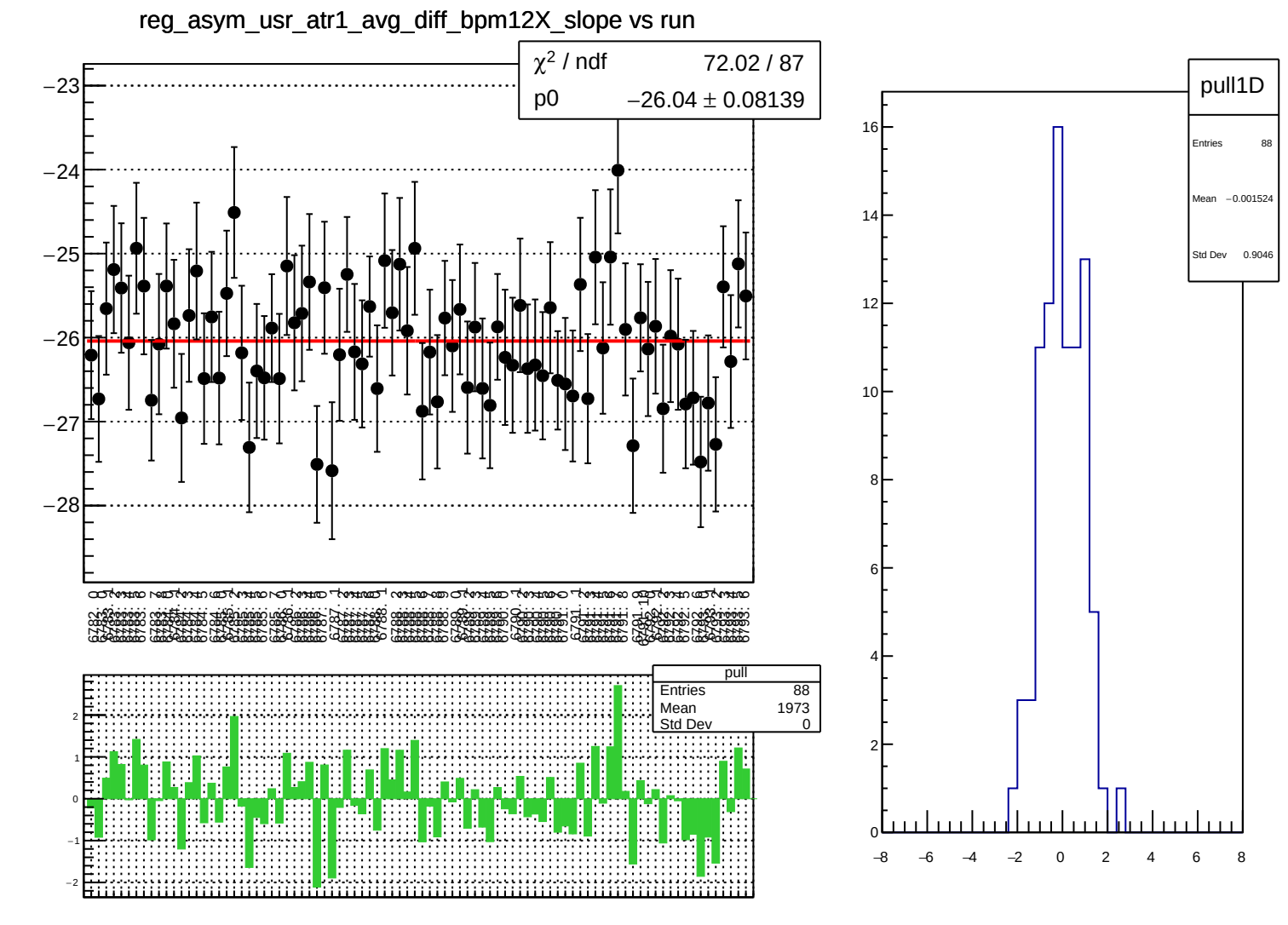

pull1D
Entries 88
Mean 0.002881
Std Dev 0.4884

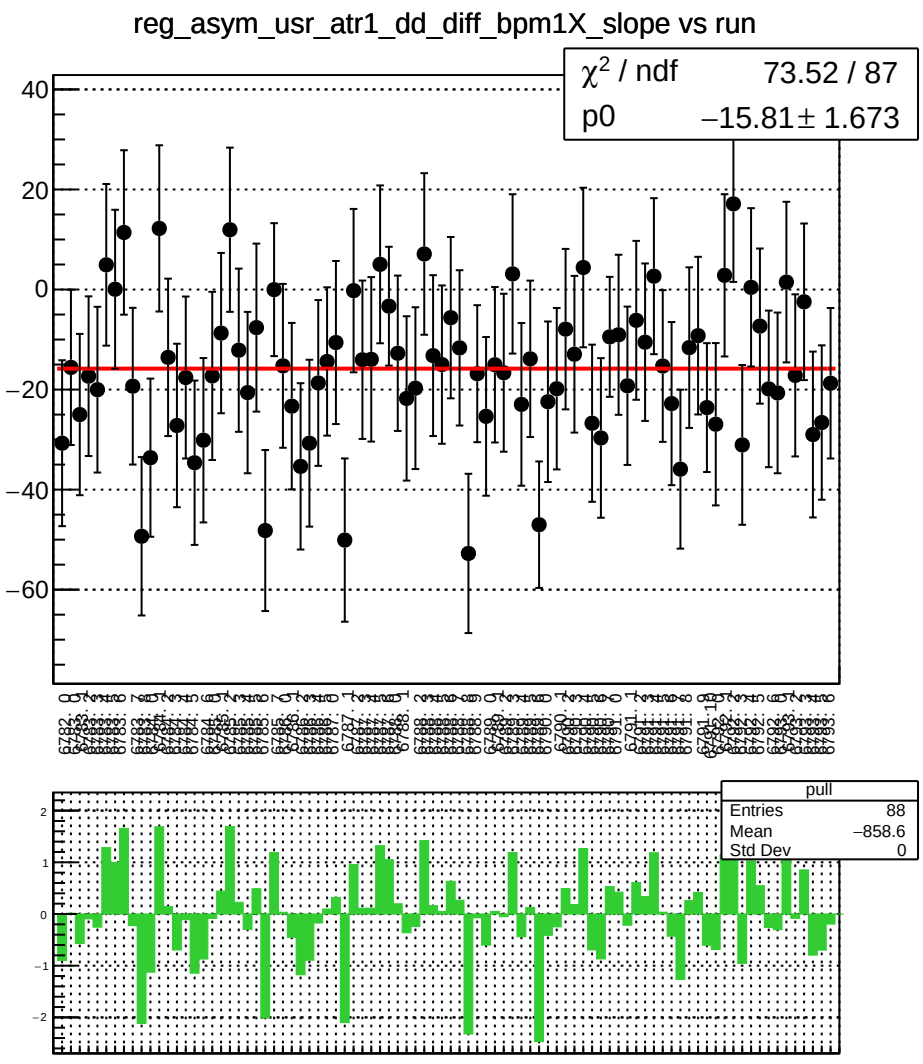

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 91.53 / 87
p0 −64.59 ± 1.966
pull
Entries 88
Mean −260.9
Std Dev 0
pull1D
Entries 88
Mean 0.009272
Std Dev 1.02

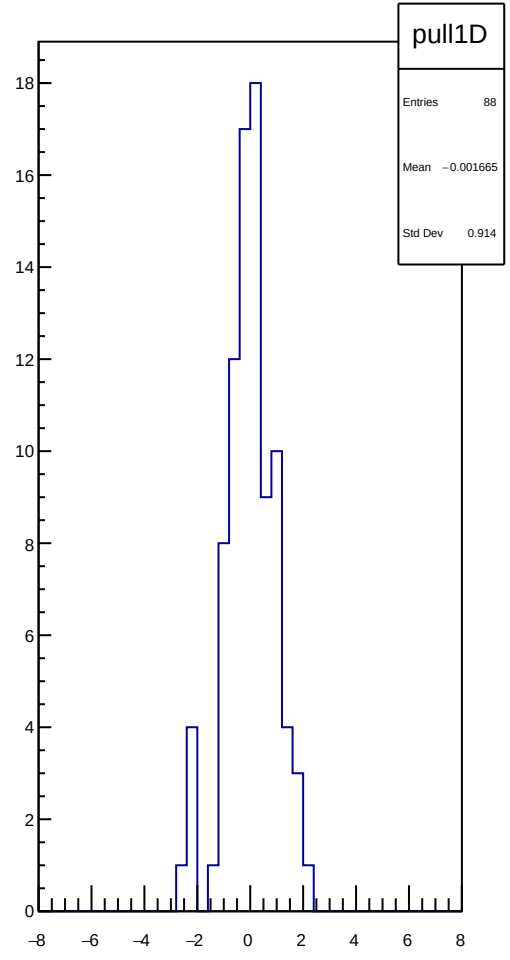

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.91 / 87
p0 7.644 ± 0.9058
pull
Entries 88
Mean −144.1
Std Dev 0
pull1D
Entries 88
Mean 0.004158
Std Dev 0.9469

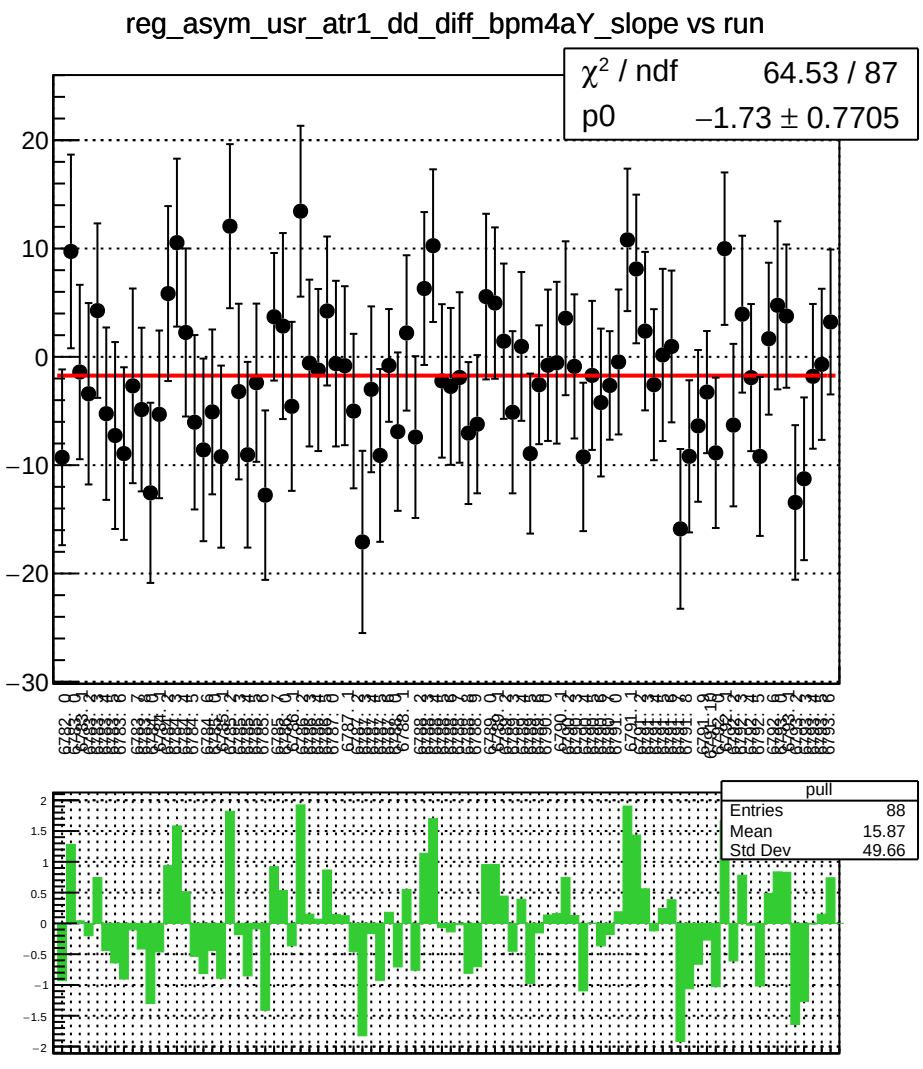

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.39 / 87
p0 61.5 ± 1.834
pull
Entries 88
Mean −290.9
Std Dev 0
pull1D
Entries 88
Mean −0.00887
Std Dev 1.013

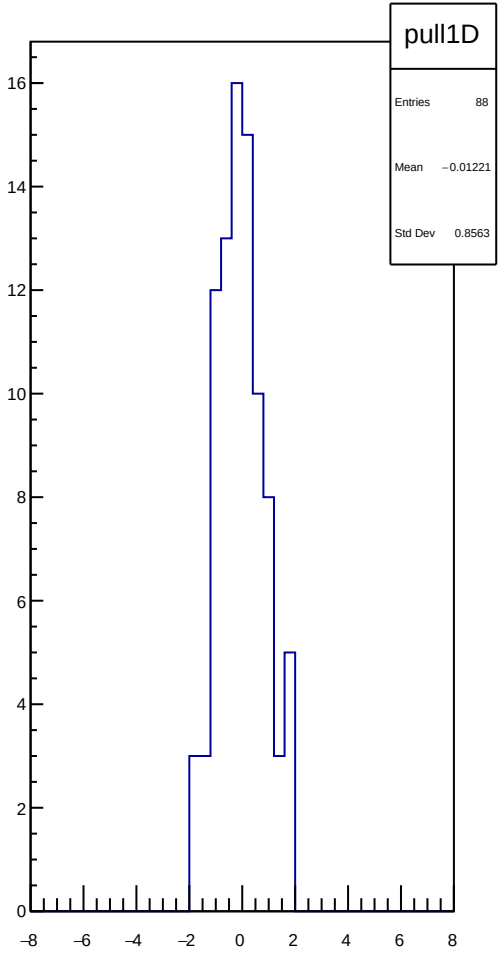

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.95 / 87
p0 −5.213 ± 1.241
pull
Entries 88
Mean −275.7
Std Dev 0
pull1D
Entries 88
Mean −0.005009
Std Dev 0.9532

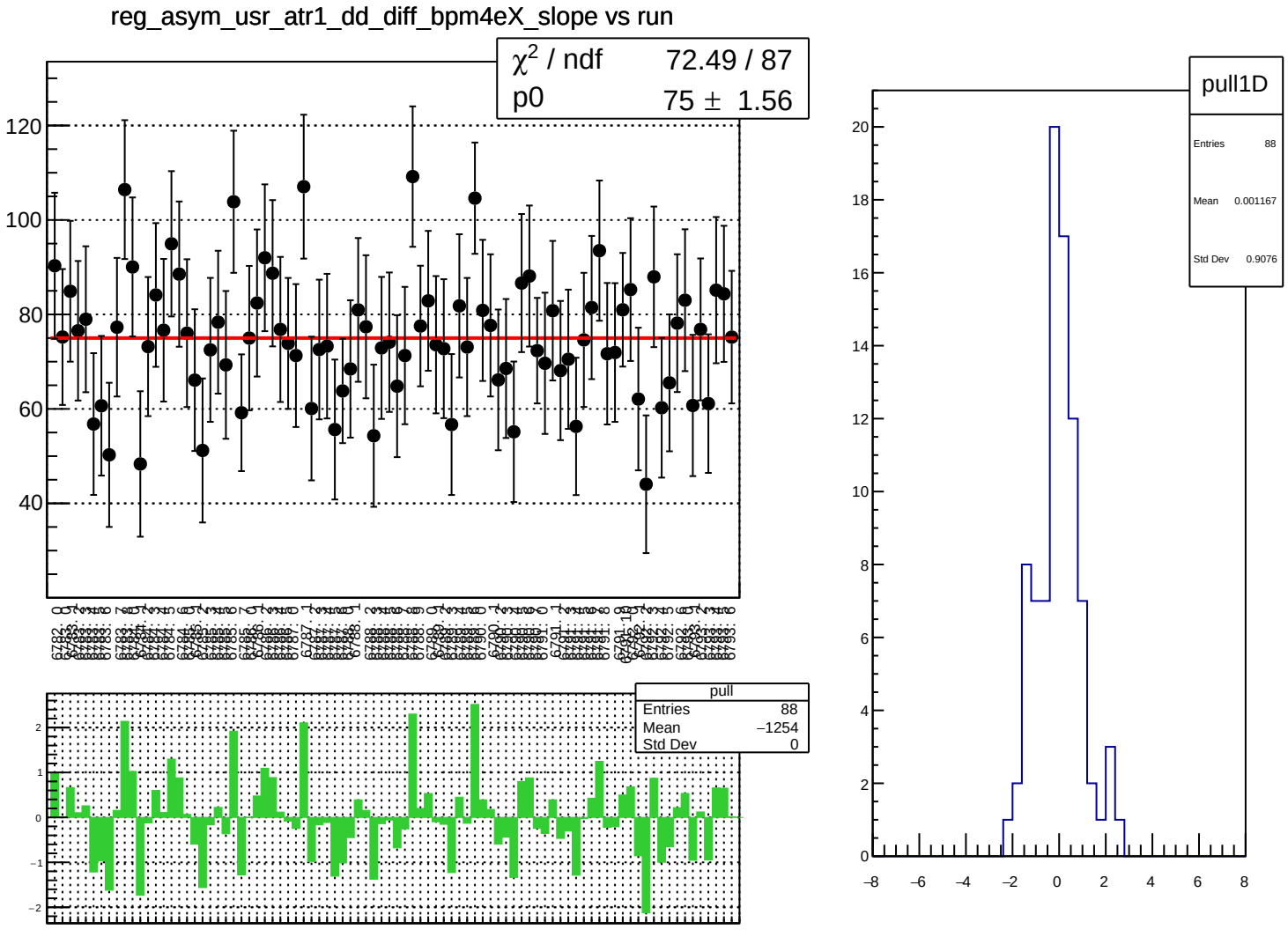

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 72.02 / 87
p0 −26.04 ± 0.08139
−23
−24
−25
−26
−27
−28
pull
Entries 88
Mean 1973
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001524
Std Dev 0.9046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

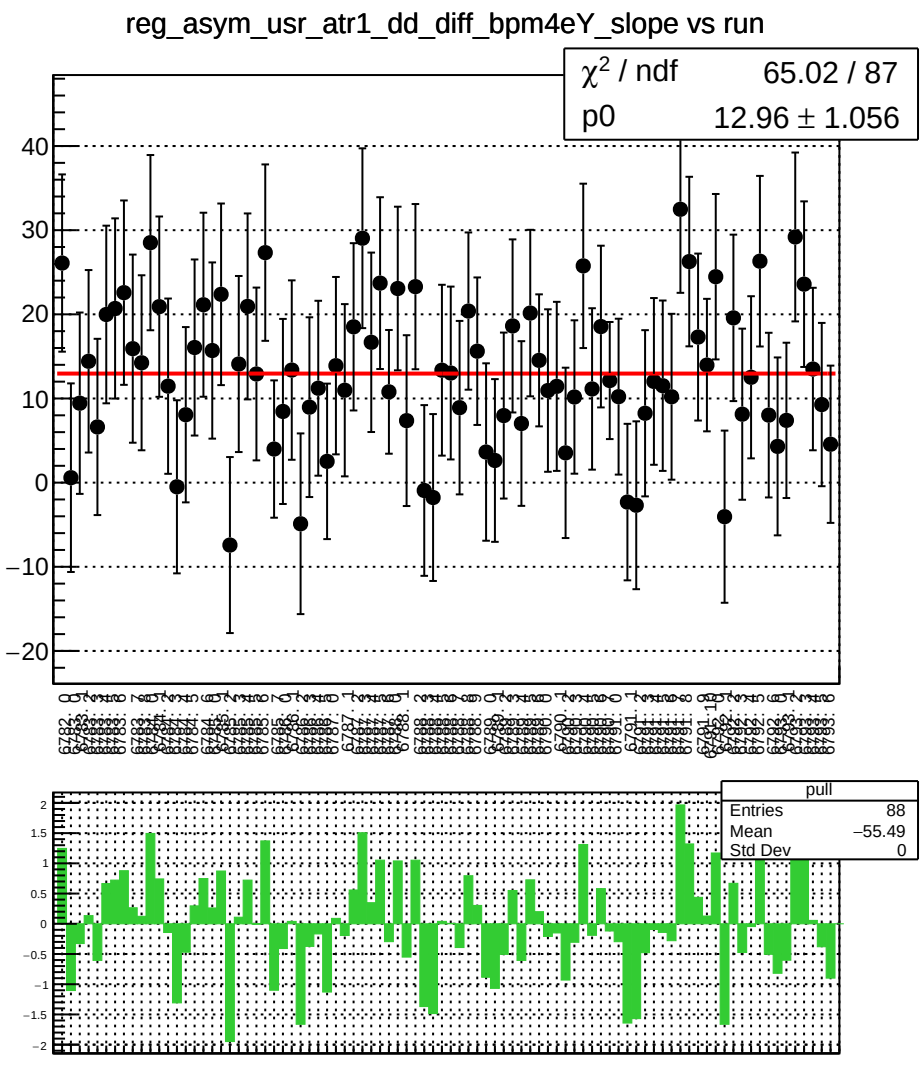

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 73.52 / 87
p0 −15.81± 1.673
pull
Entries 88
Mean −858.6
Std Dev 0

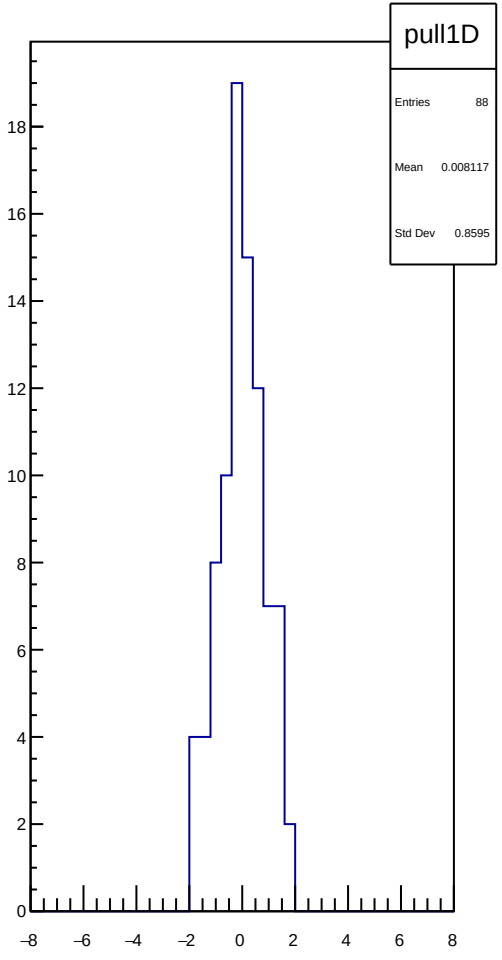

pull1D
Entries 88
Mean −0.001665
Std Dev 0.914

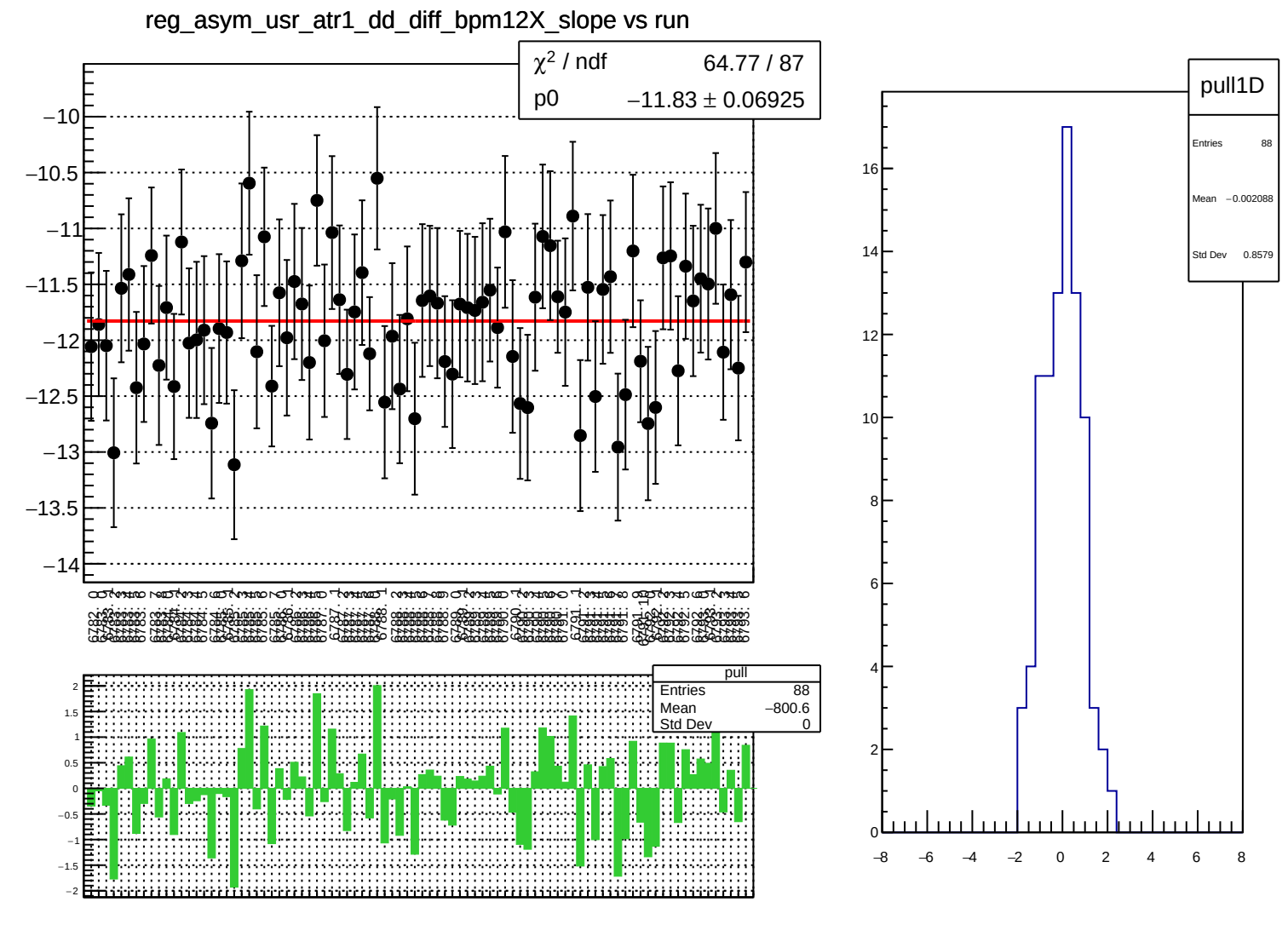

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.53 / 87
p0 −1.73 ± 0.7705
pull
Entries 88
Mean 15.87
Std Dev 49.66

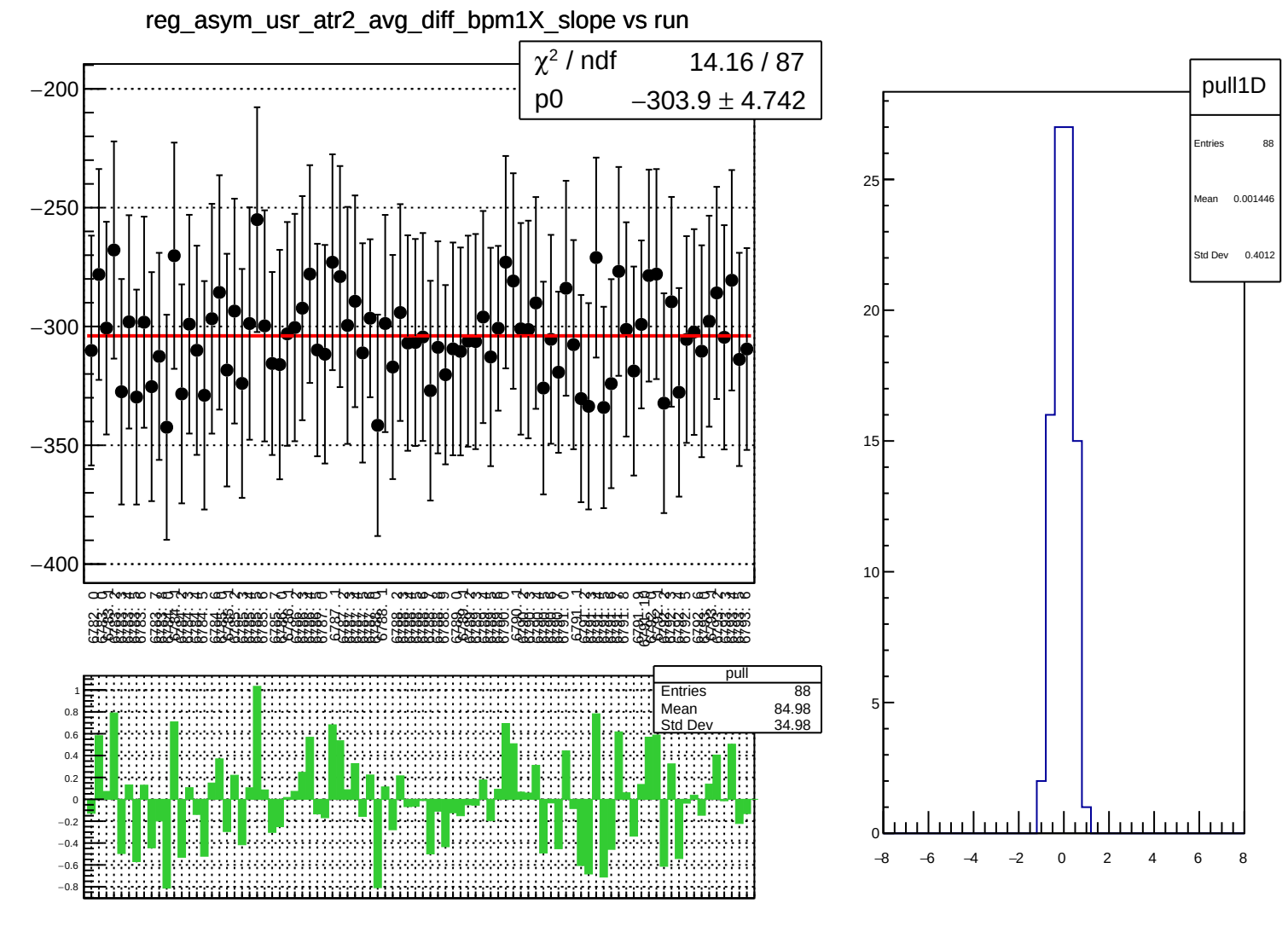

pull1D
Entries 88
Mean −0.01221
Std Dev 0.8563

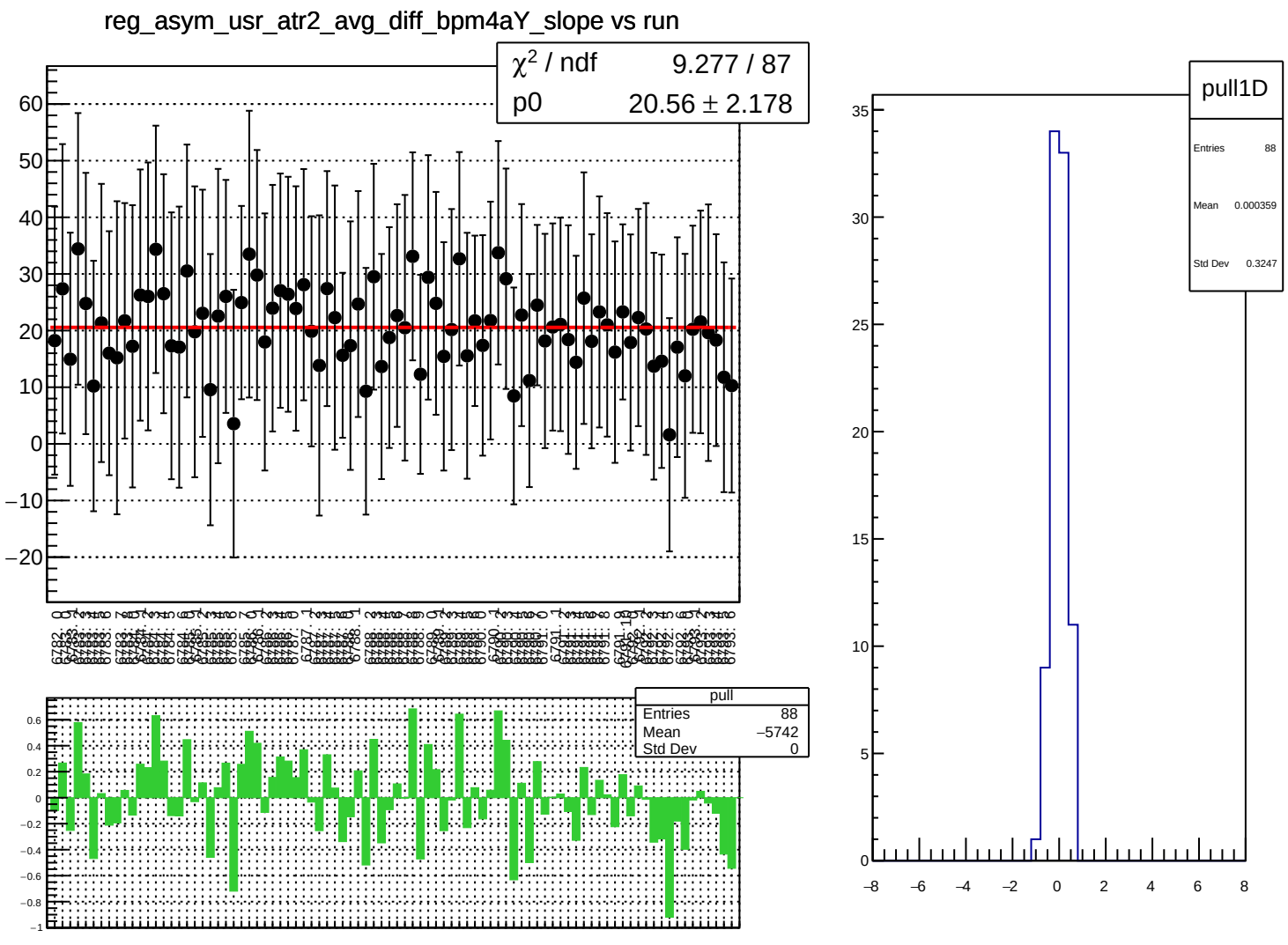

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.49 / 87
p0 75 ± 1.56
120
100
80
60
40
pull
Entries 88
Mean −1254
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001167
Std Dev 0.9076
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

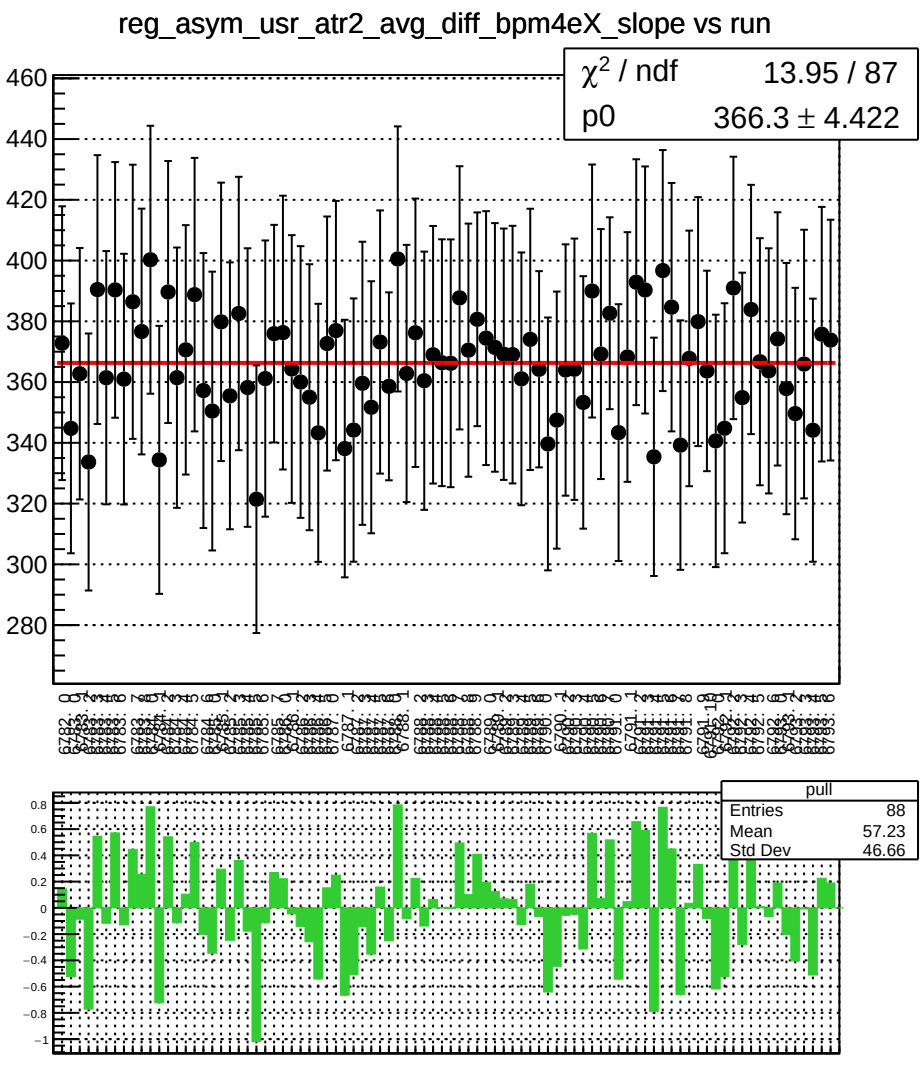

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.02 / 87
p0 12.96 ± 1.056
pull
Entries 88
Mean −55.49
Std Dev 0

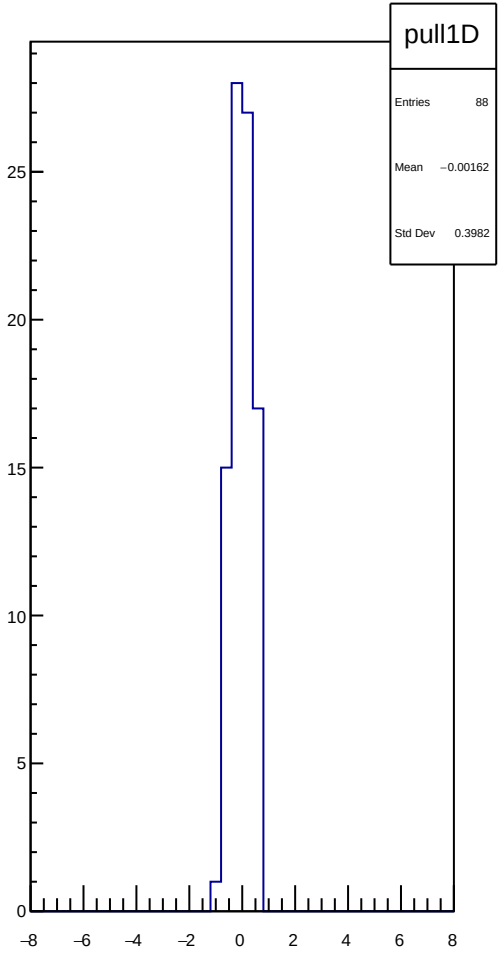

pull1D
Entries 88
Mean 0.008117
Std Dev 0.8595

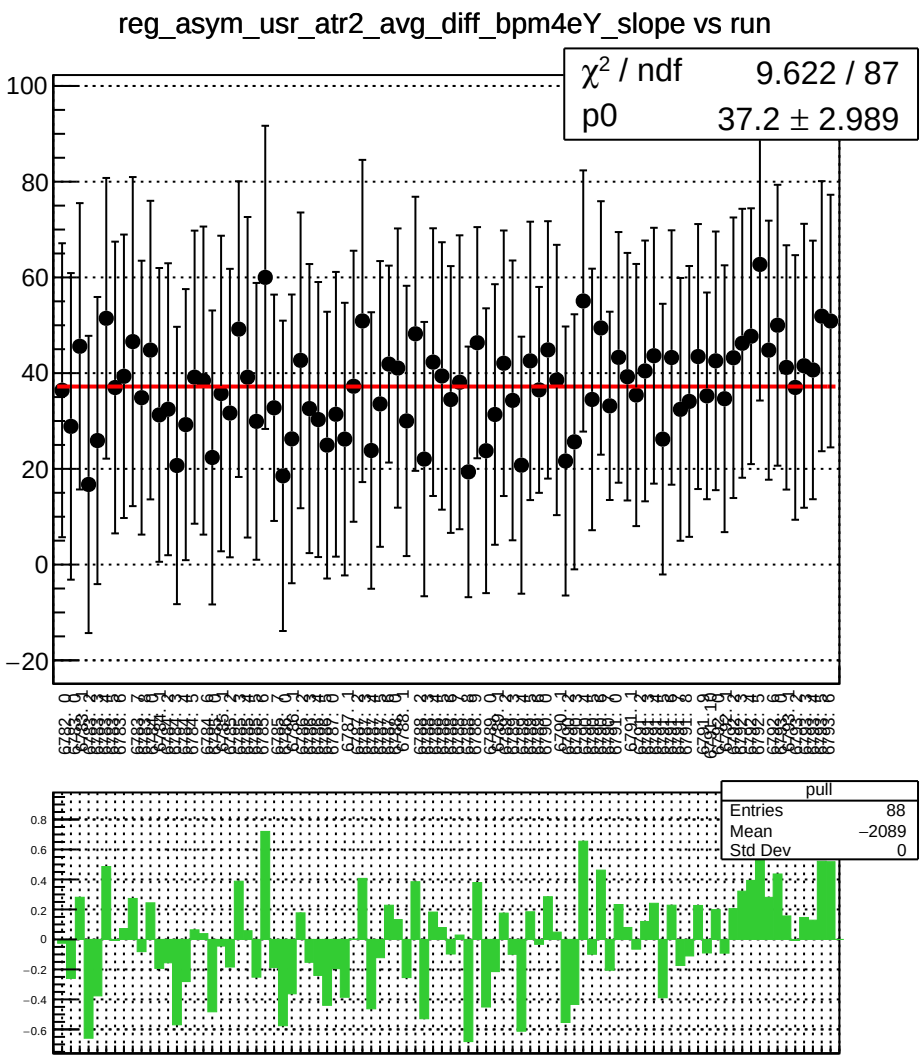

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 64.77 / 87
p0 −11.83 ± 0.06925
pull
Entries 88
Mean −800.6
Std Dev 0
pull1D
Entries 88
Mean −0.002088
Std Dev 0.8579

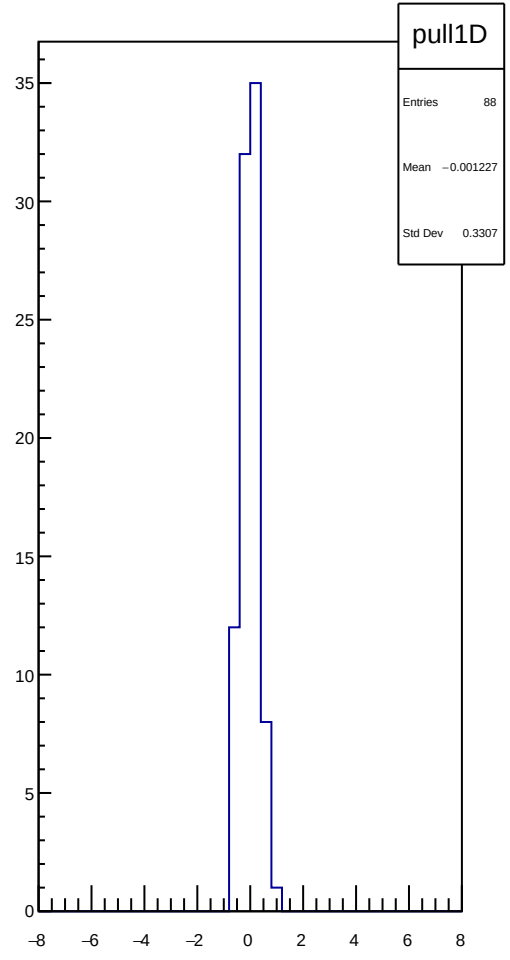

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 14.16 / 87
p0 −303.9 ± 4.742
−200
−250
−300
−350
−400
pull
Entries 88
Mean 84.98
Std Dev 34.98
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.001446
Std Dev 0.4012
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

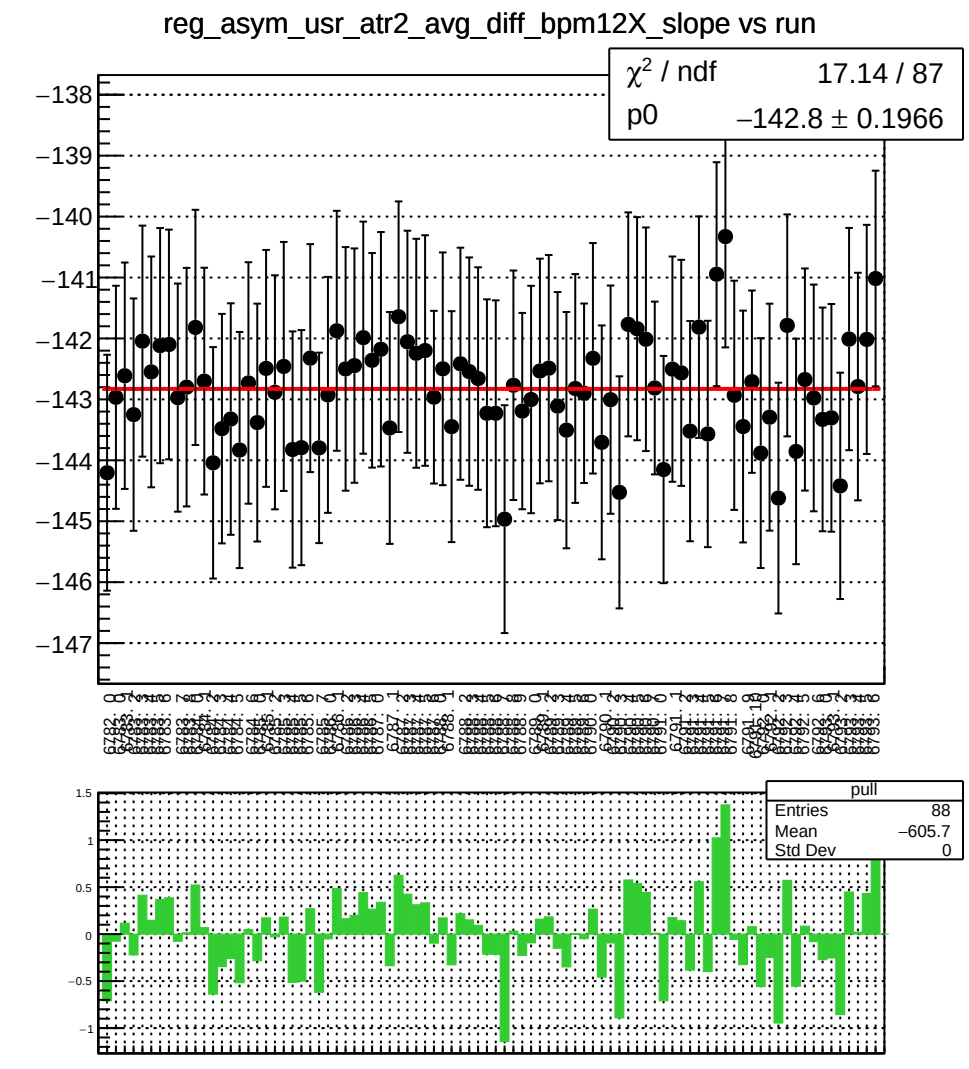

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.277 / 87
p0 20.56 ± 2.178
pull
Entries 88
Mean −5742
Std Dev 0
pull1D
Entries 88
Mean 0.000359
Std Dev 0.3247

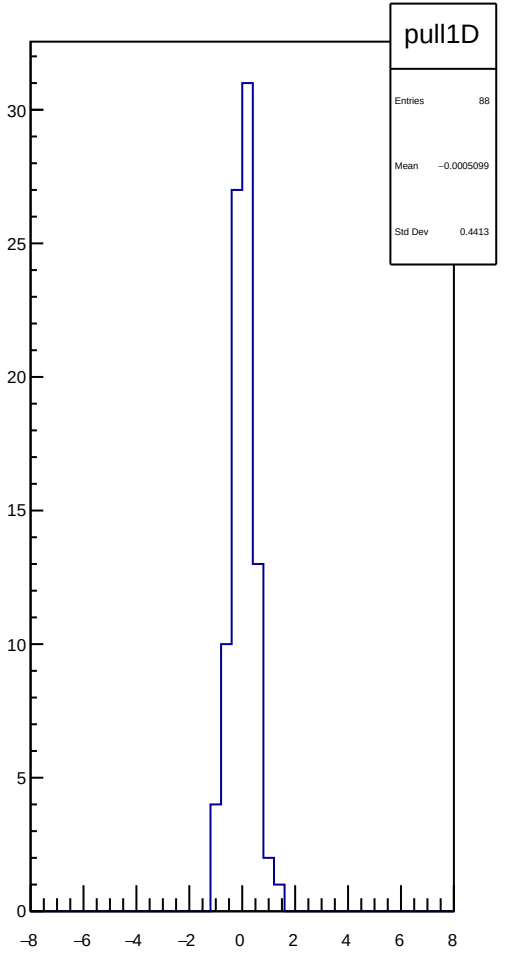

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.95 / 87
p0 366.3 ± 4.422
pull
Entries 88
Mean 57.23
Std Dev 46.66

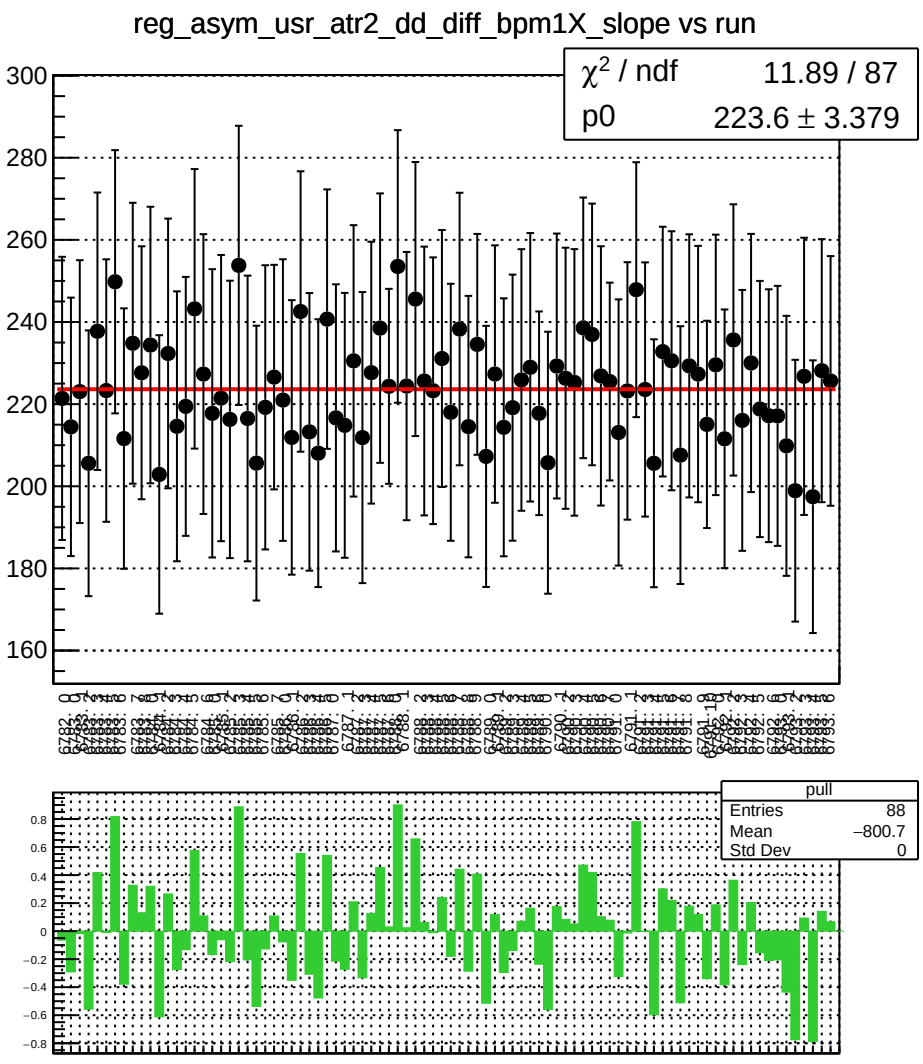

pull1D
Entries 88
Mean −0.00162
Std Dev 0.3982

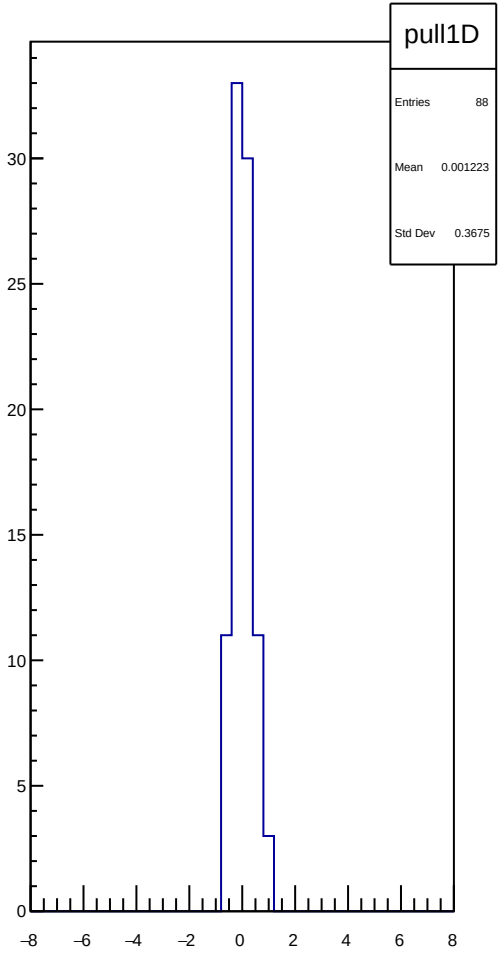

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.622 / 87
p0 37.2 ± 2.989
pull
Entries 88
Mean −2089
Std Dev 0

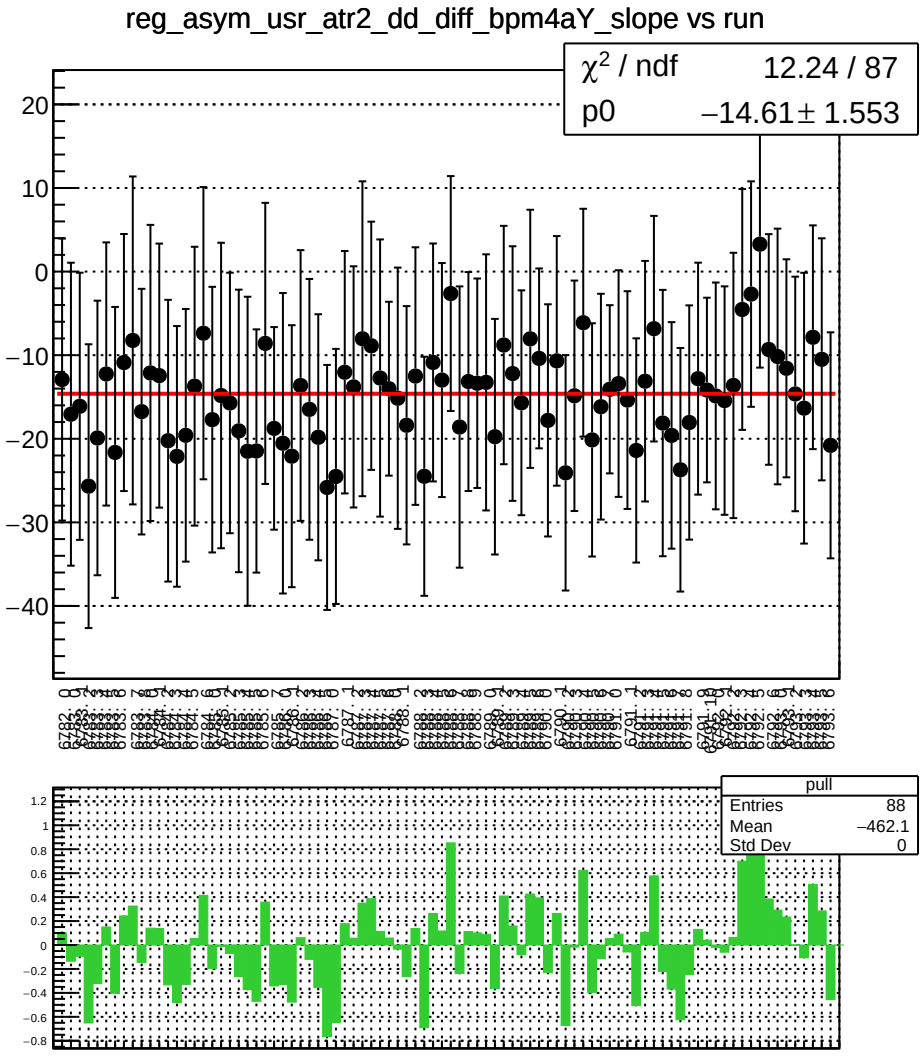

pull1D
Entries 88
Mean −0.001227
Std Dev 0.3307

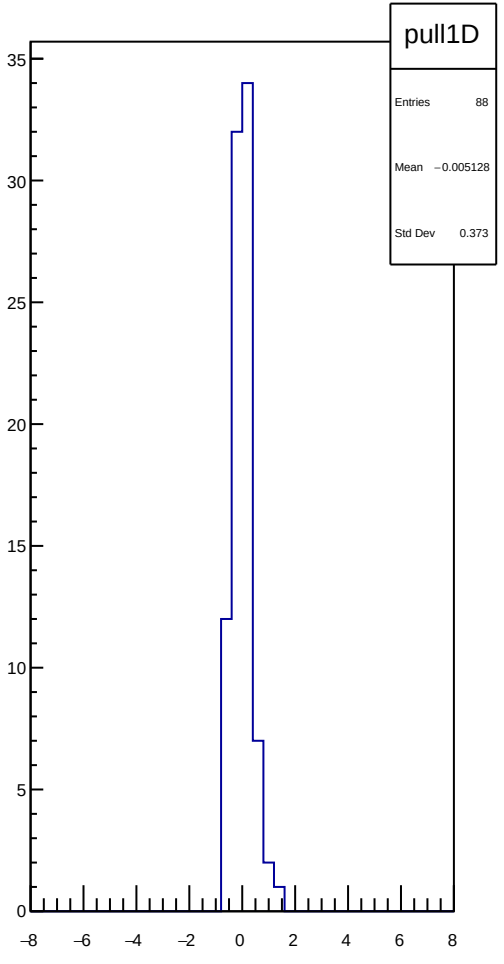

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 17.14 / 87
p0 −142.8 ± 0.1966
pull
Entries 88
Mean −605.7
Std Dev 0

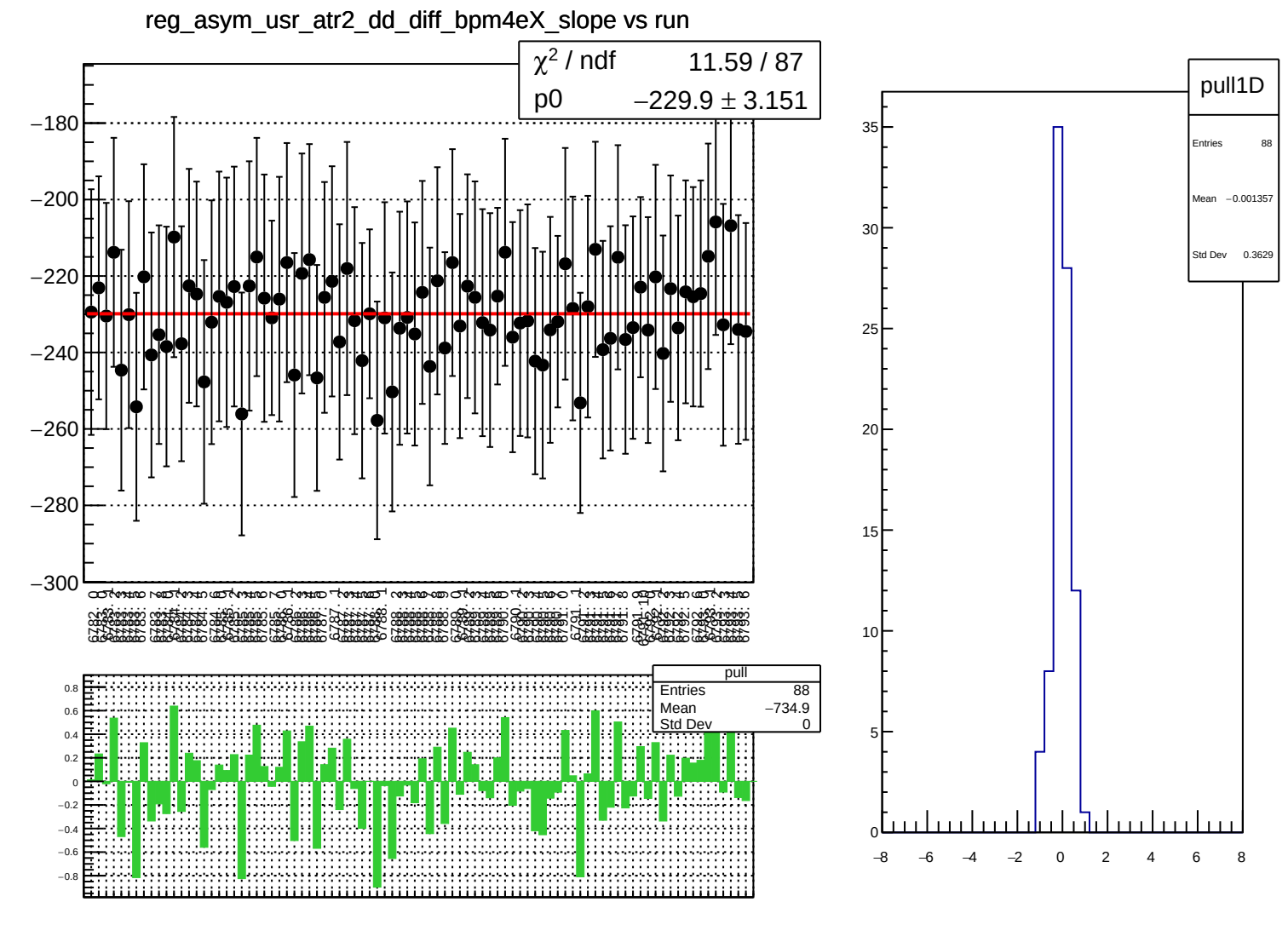

pull1D
Entries 88
Mean −0.0005099
Std Dev 0.4413

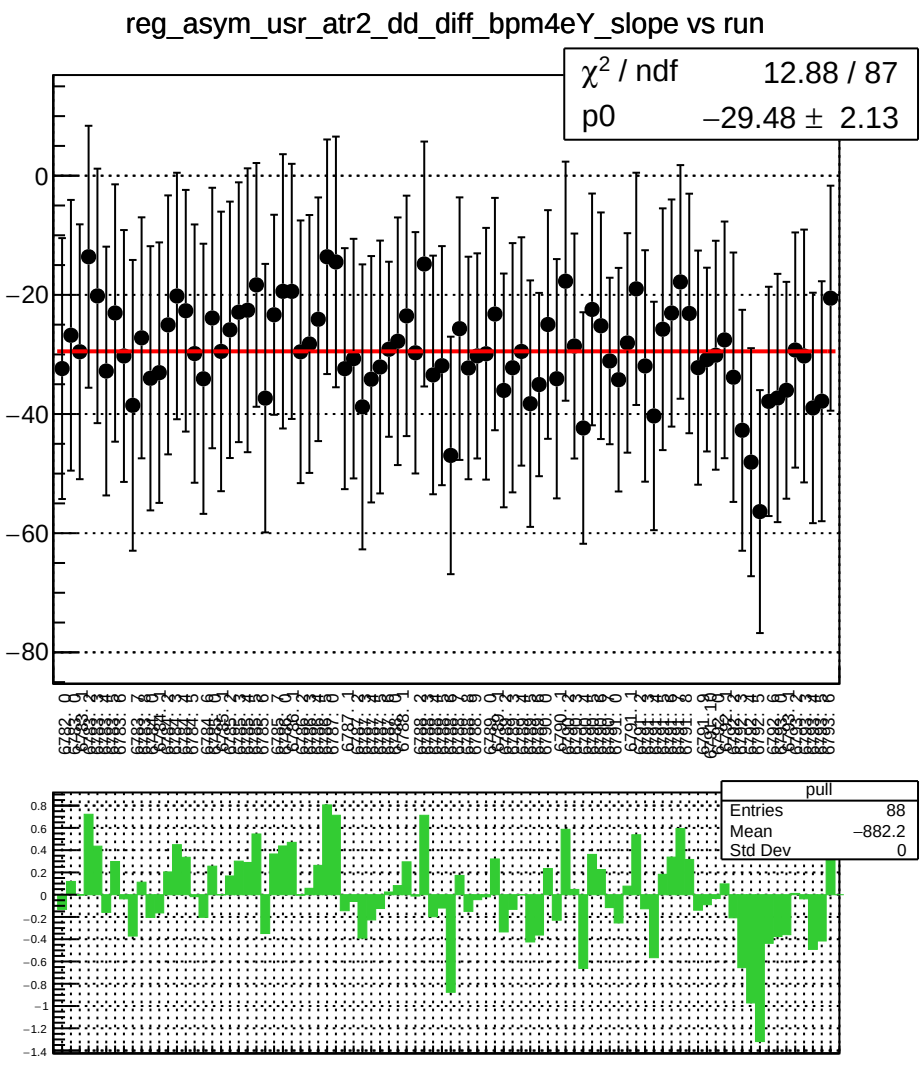

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.89 / 87
p0 223.6 ± 3.379
pull
Entries 88
Mean –800.7
Std Dev 0

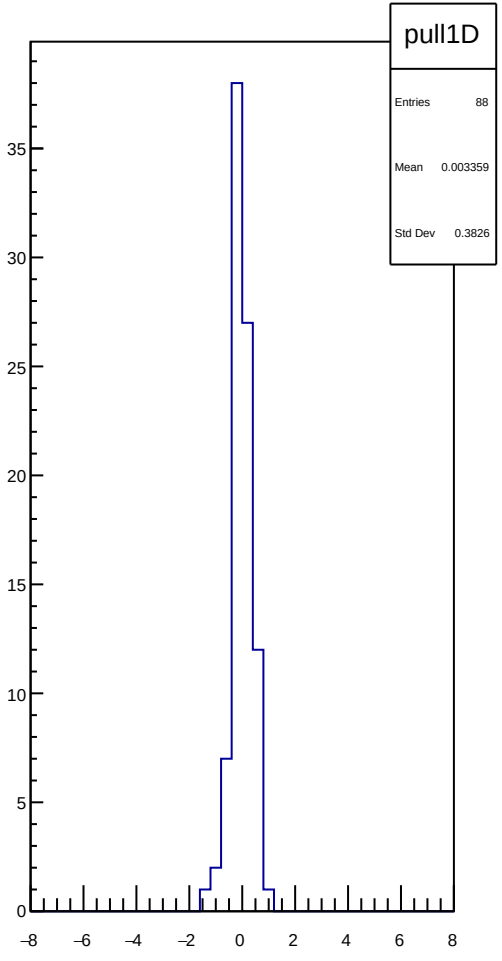

pull1D
Entries 88
Mean 0.001223
Std Dev 0.3675

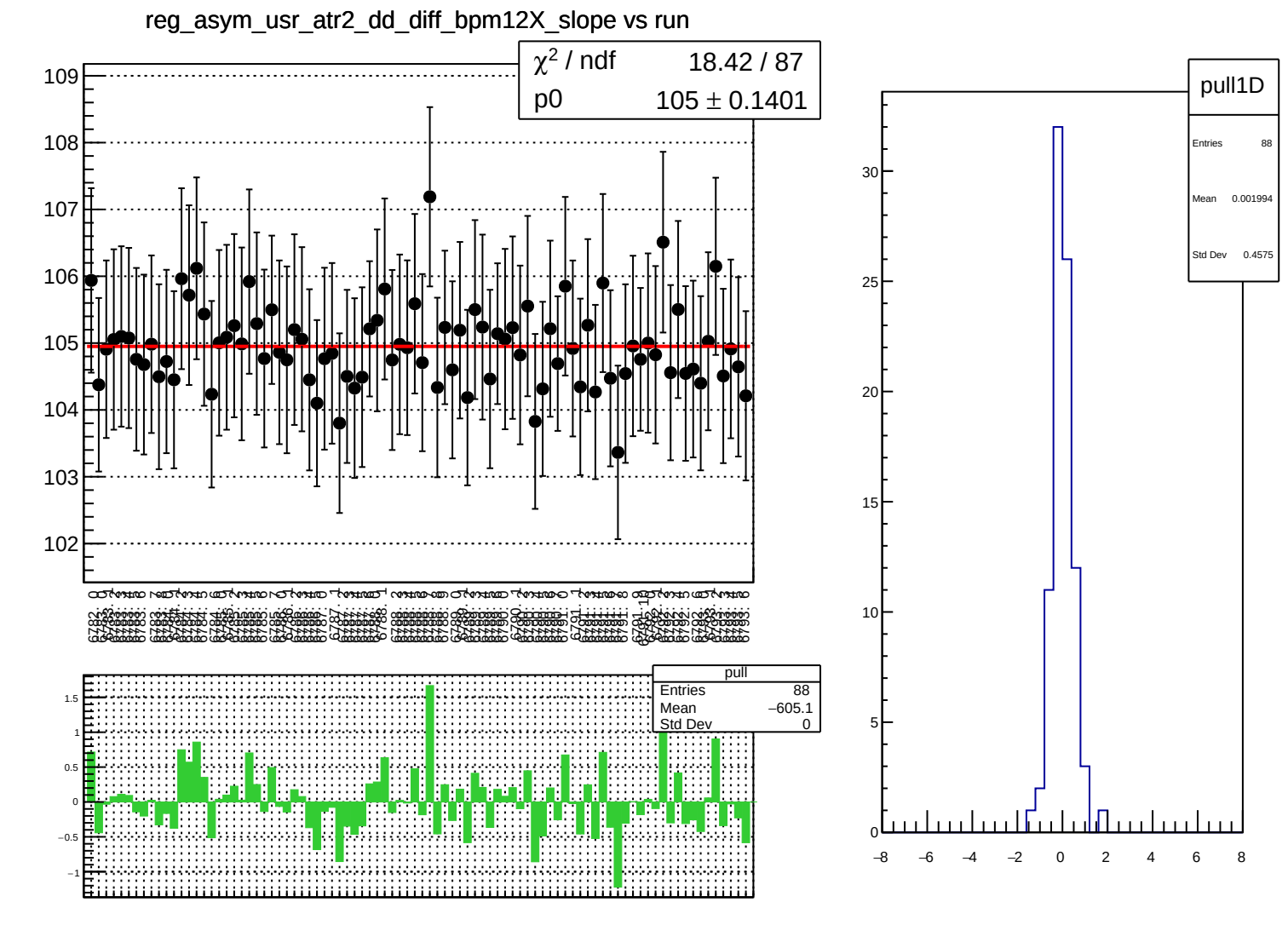

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.24 / 87
p0 −14.61 ± 1.553
pull
Entries 88
Mean −462.1
Std Dev 0

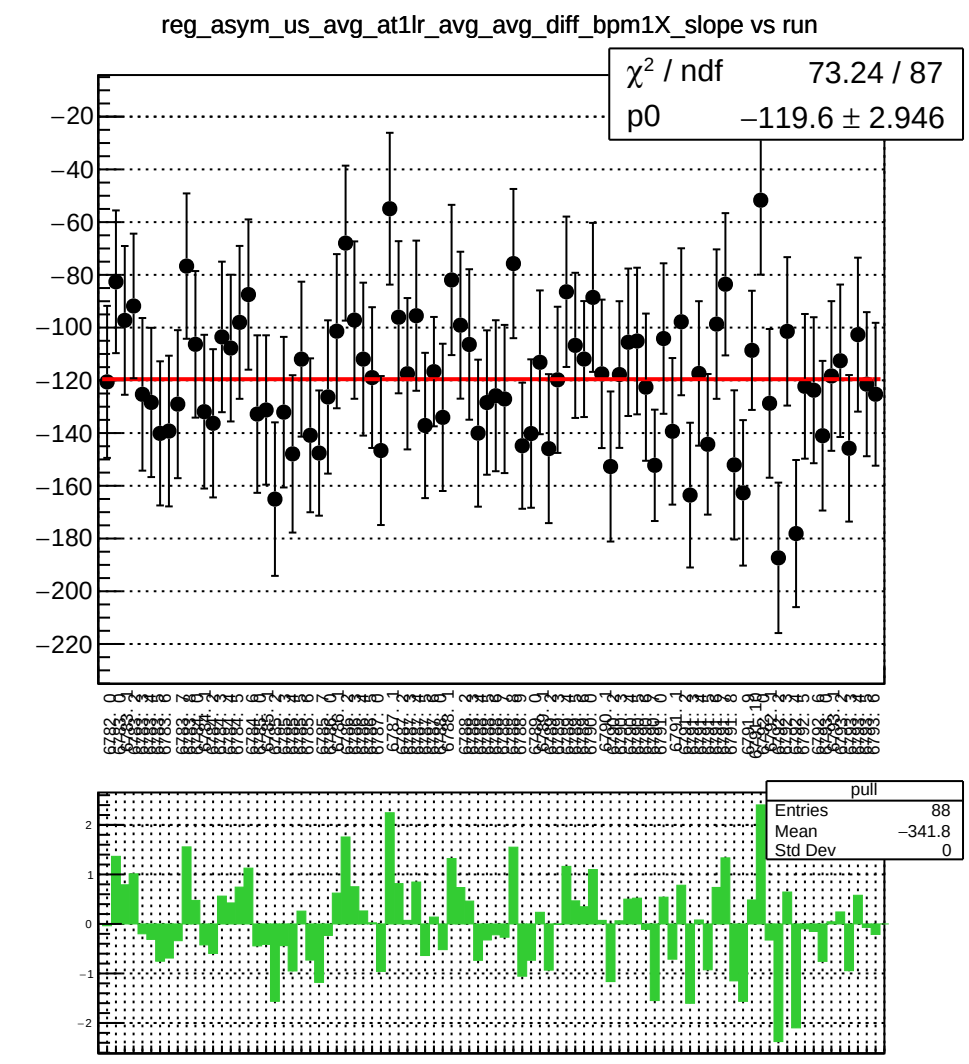

pull1D
Entries 88
Mean −0.005128
Std Dev 0.373

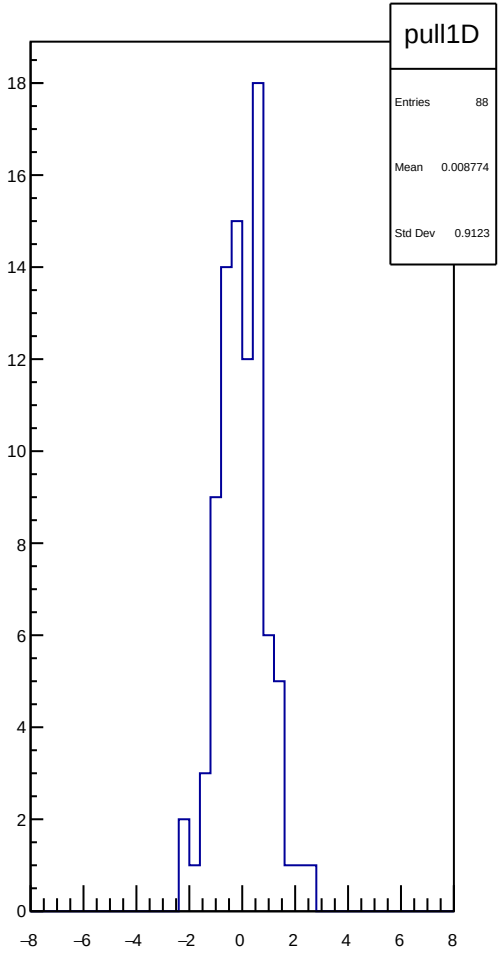

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 87
p0 −229.9 ± 3.151
pull
Entries 88
Mean −734.9
Std Dev 0
pull1D
Entries 88
Mean −0.001357
Std Dev 0.3629

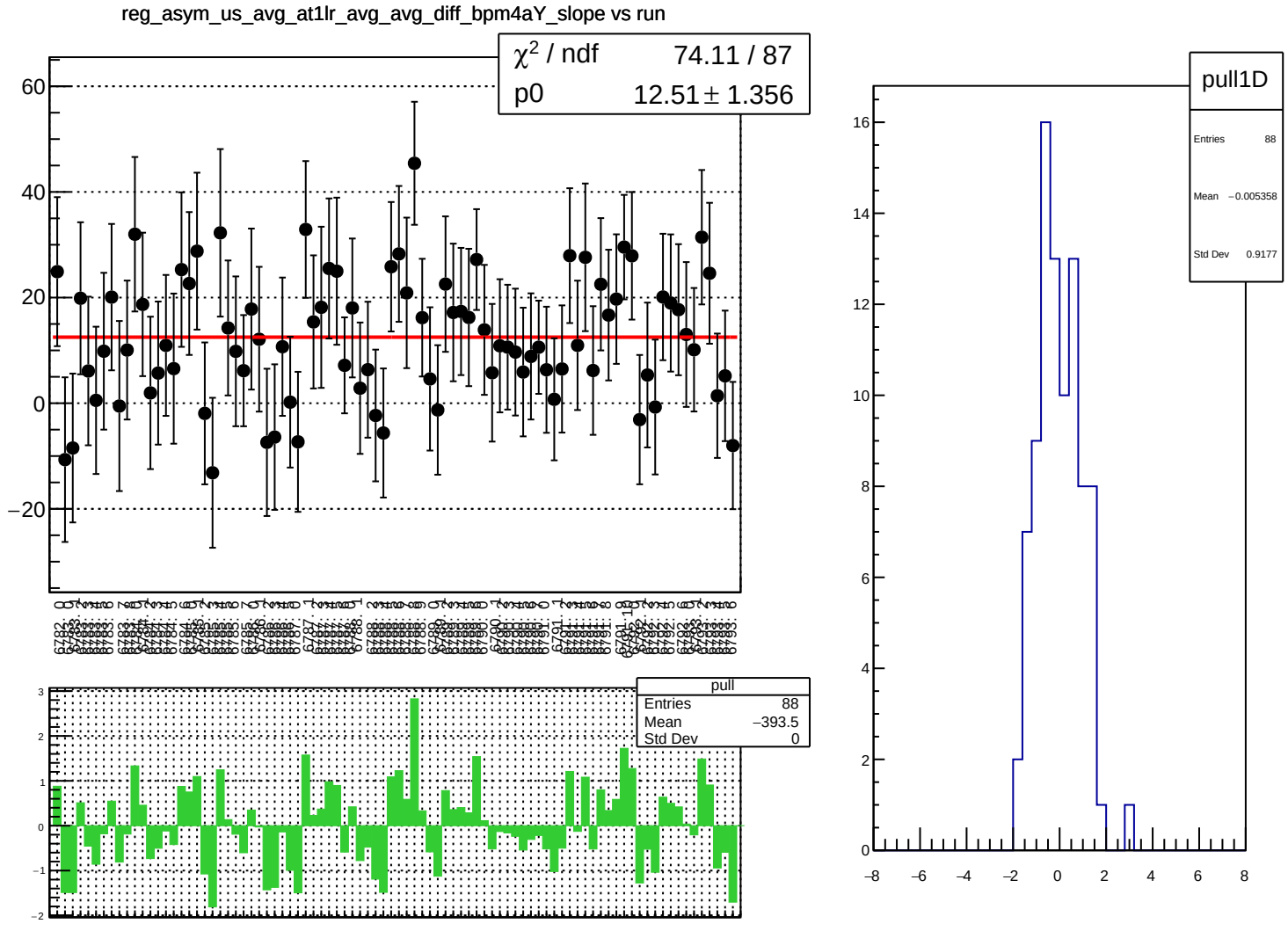

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.88 / 87
p0 −29.48 ± 2.13
0
−20
−40
−60
−80
pull
Entries 88
Mean −882.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

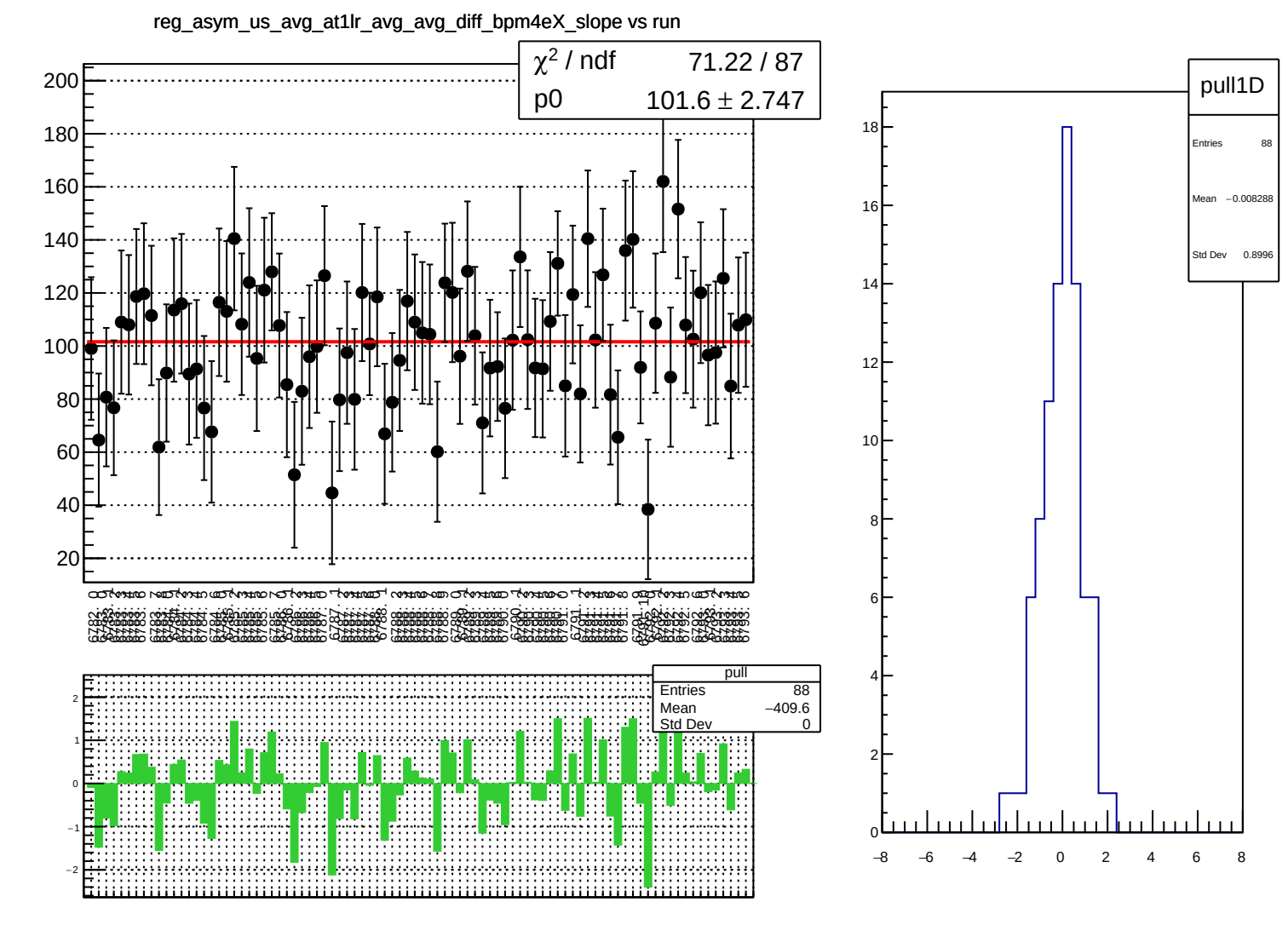

pull1D
Entries 88
Mean 0.003359
Std Dev 0.3826
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

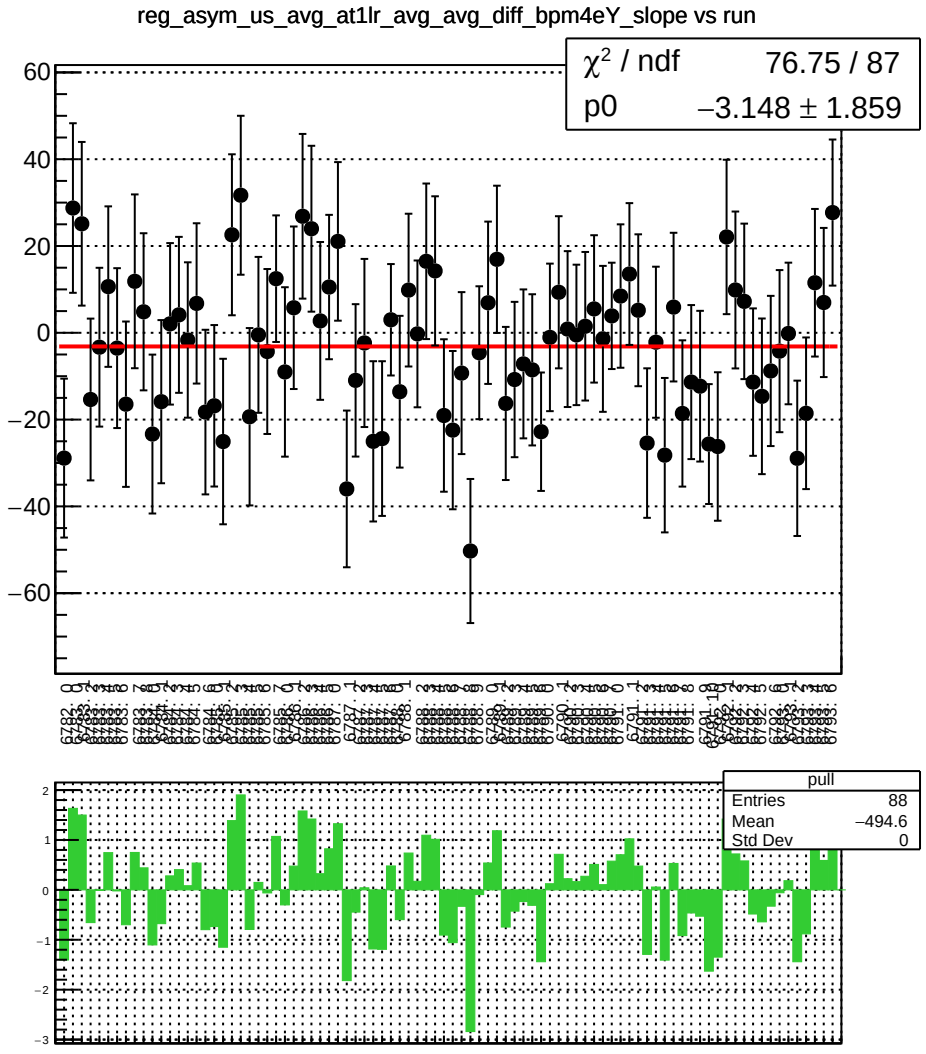

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.42 / 87
p0 105 ± 0.1401
pull
Entries 88
Mean −605.1
Std Dev 0
pull1D
Entries 88
Mean 0.001994
Std Dev 0.4575

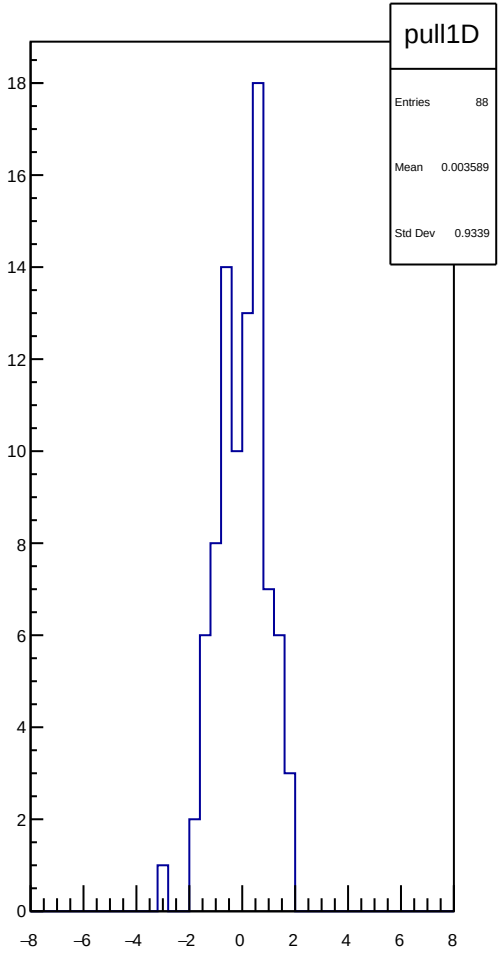

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 73.24 / 87
p0 −119.6 ± 2.946
pull
Entries 88
Mean −341.8
Std Dev 0

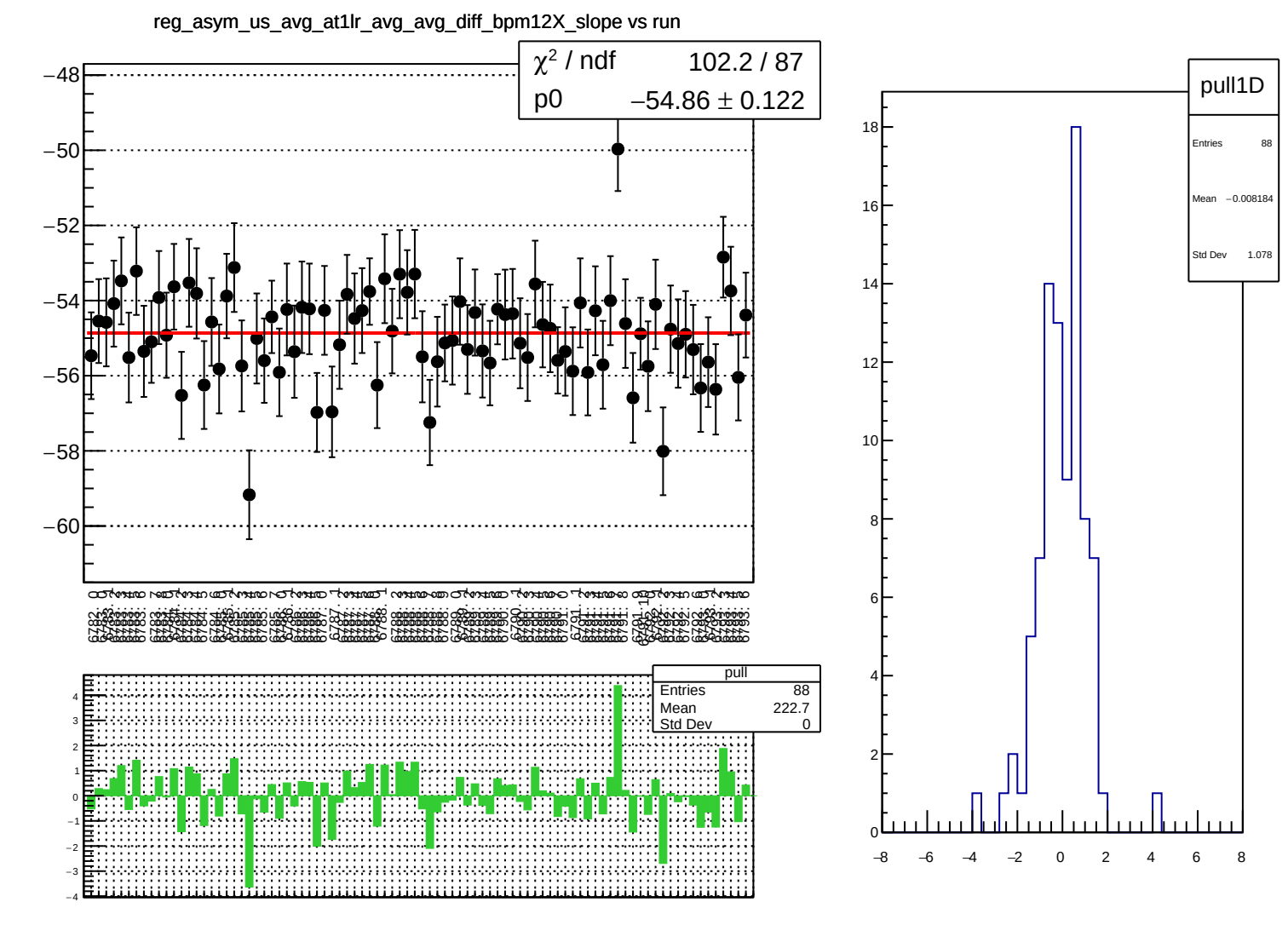

pull1D
Entries 88
Mean 0.008774
Std Dev 0.9123

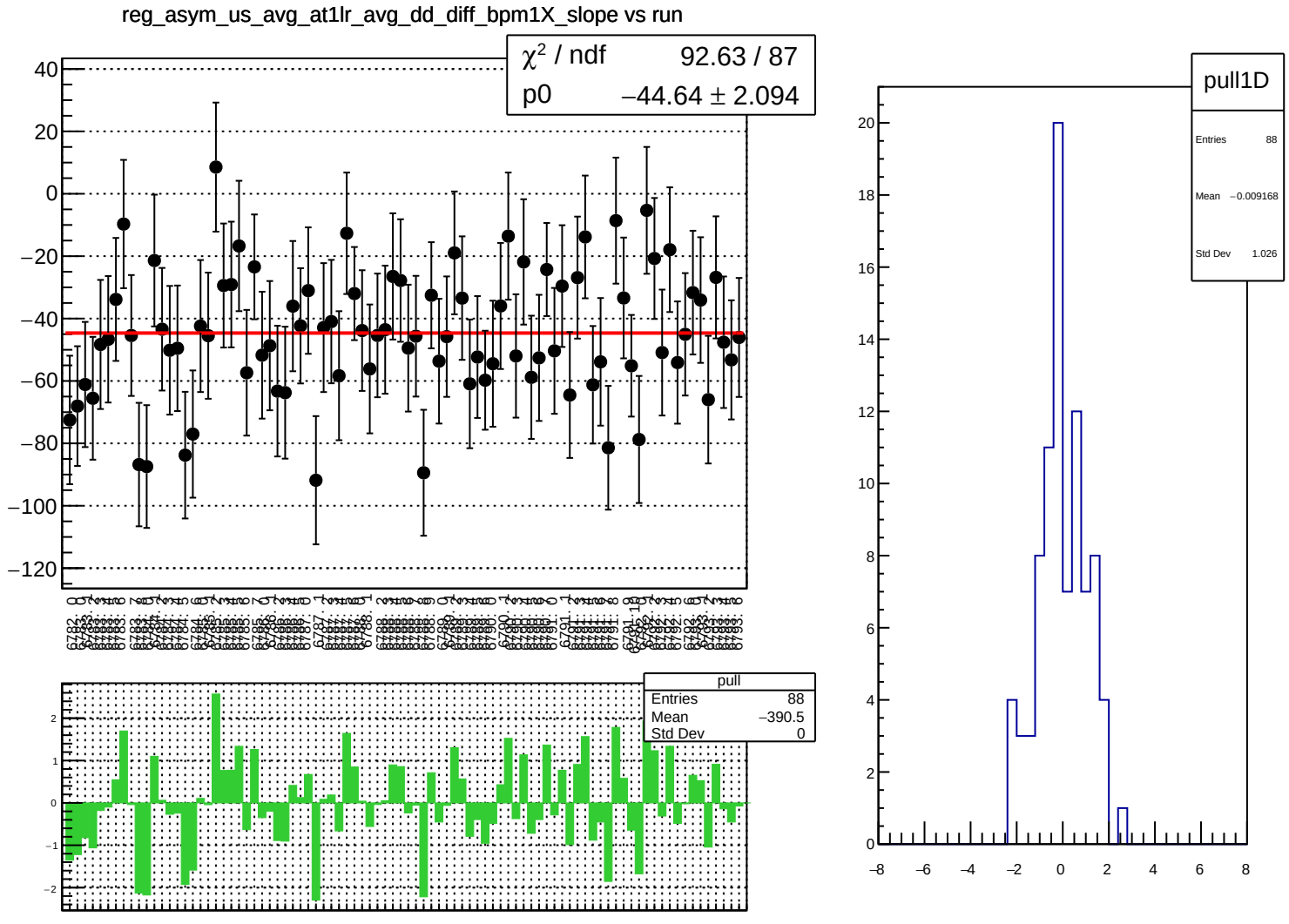

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.11 / 87
p0 12.51 ± 1.356
pull
Entries 88
Mean −393.5
Std Dev 0
pull1D
Entries 88
Mean −0.005358
Std Dev 0.9177

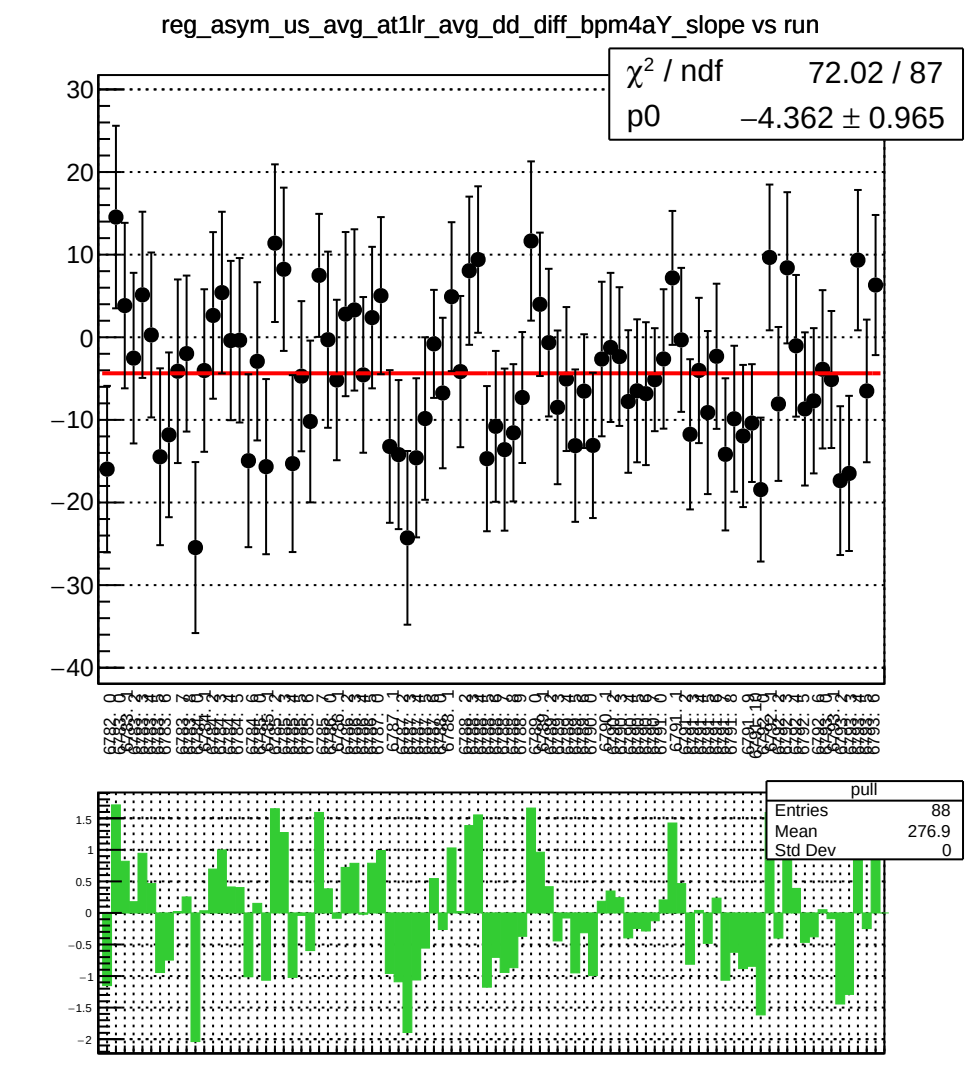

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.22 / 87
p0 101.6 ± 2.747
pull
Entries 88
Mean −409.6
Std Dev 0
pull1D
Entries 88
Mean −0.008288
Std Dev 0.8996

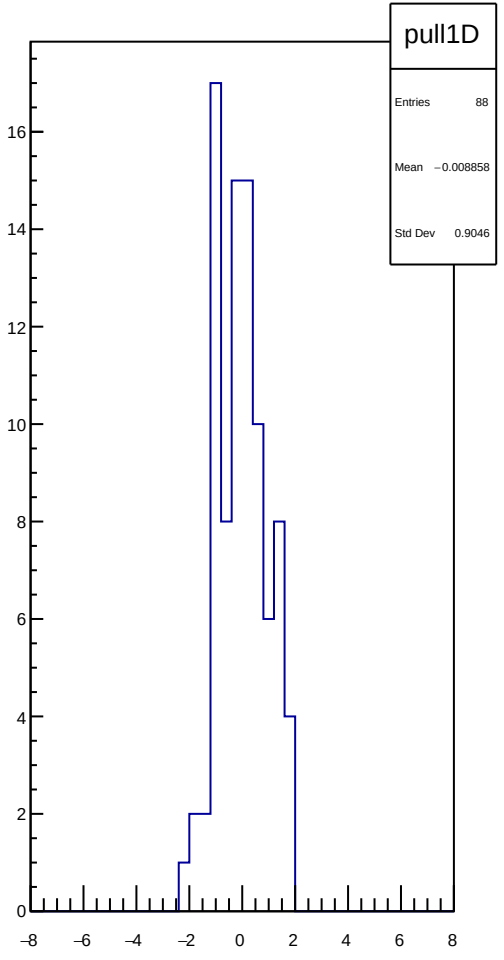

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.75 / 87
p0 −3.148 ± 1.859
pull
Entries 88
Mean −494.6
Std Dev 0

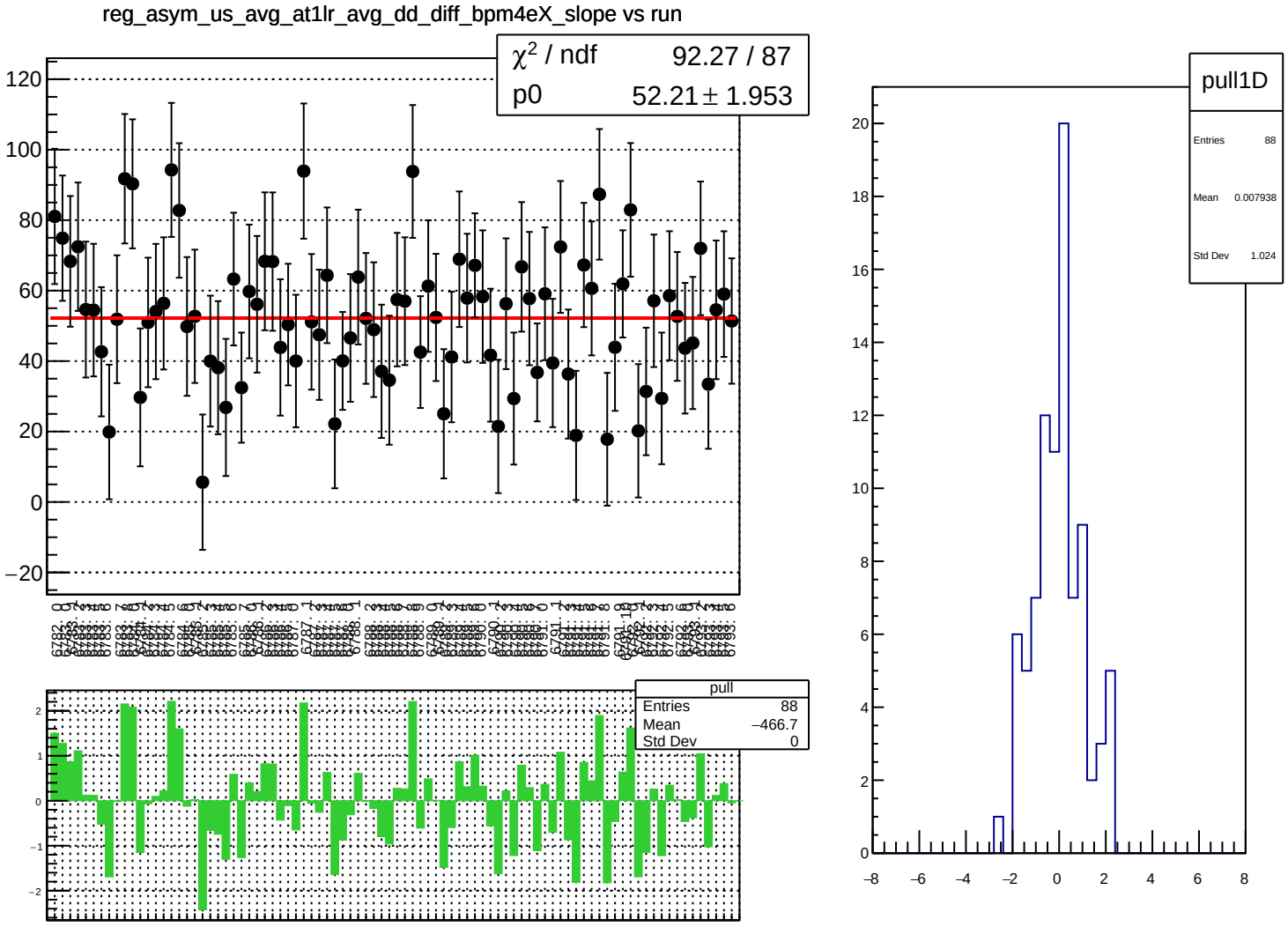

pull1D
Entries 88
Mean 0.003589
Std Dev 0.9339

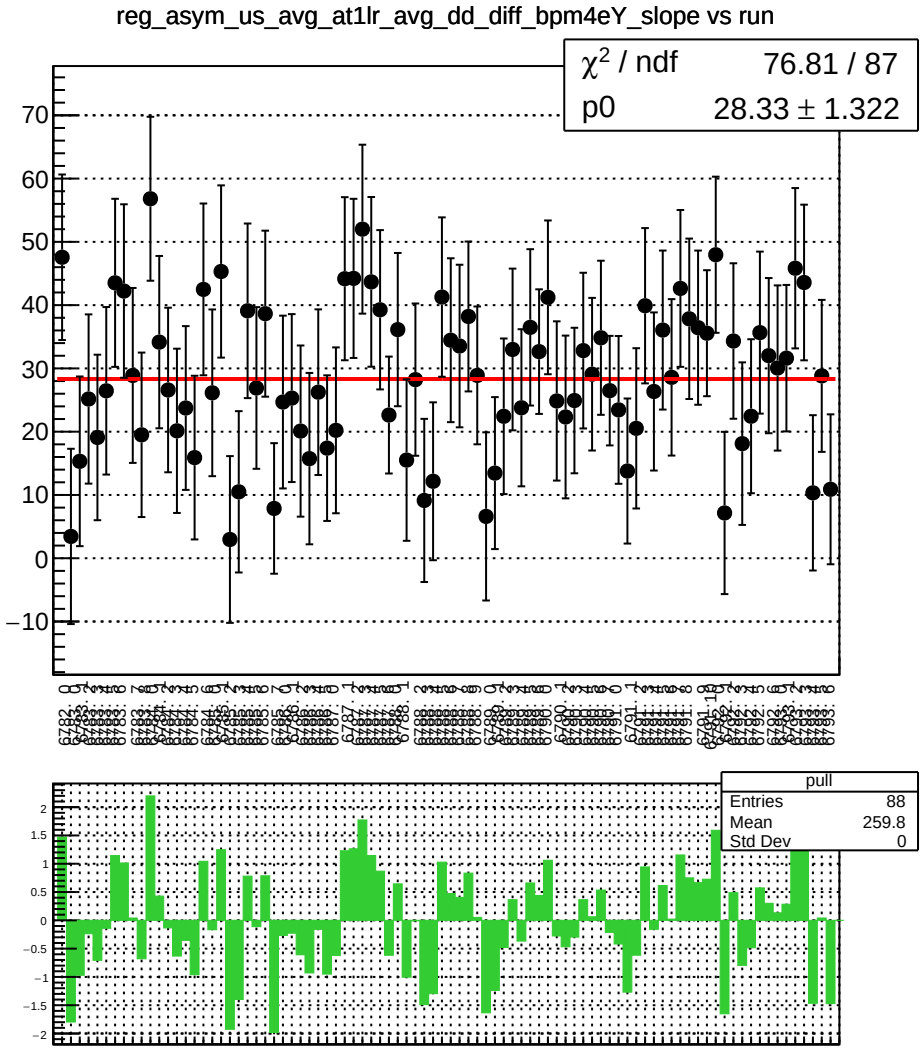

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 102.2 / 87
p0 −54.86 ± 0.122
pull
Entries 88
Mean 222.7
Std Dev 0
pull1D
Entries 88
Mean −0.008184
Std Dev 1.078

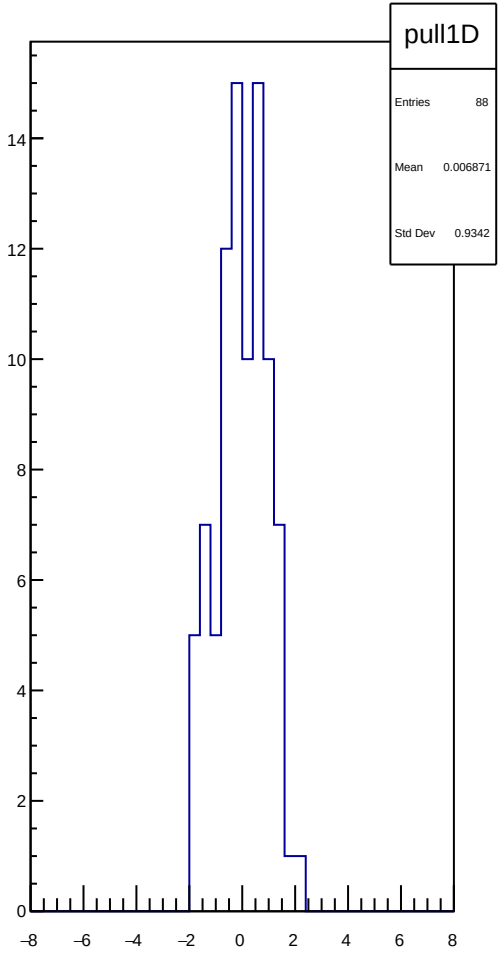

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 92.63 / 87
p0 −44.64 ± 2.094
pull
Entries 88
Mean −390.5
Std Dev 0
pull1D
Entries 88
Mean −0.009168
Std Dev 1.026

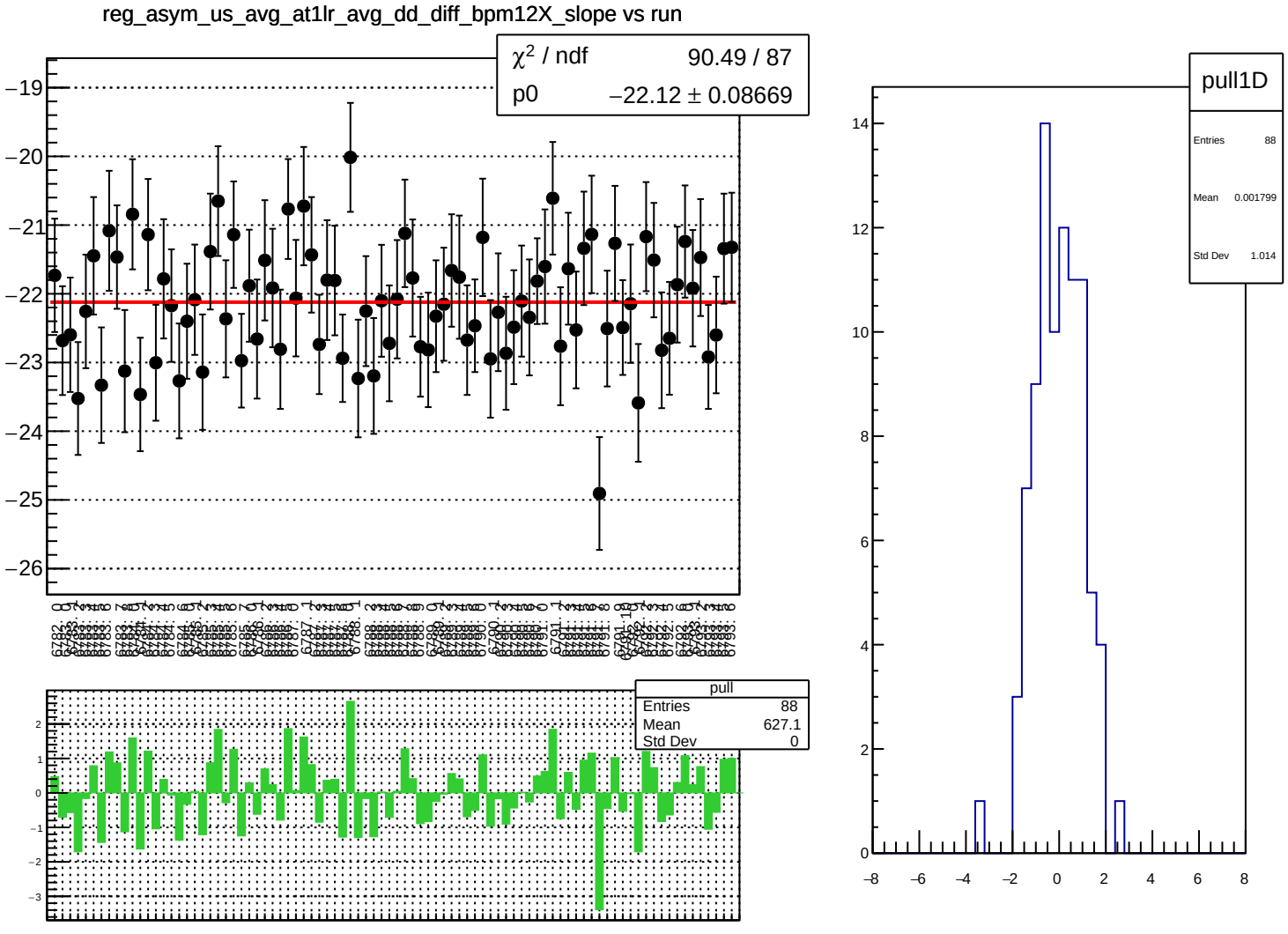

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.02 / 87
p0 −4.362 ± 0.965
pull
Entries 88
Mean 276.9
Std Dev 0

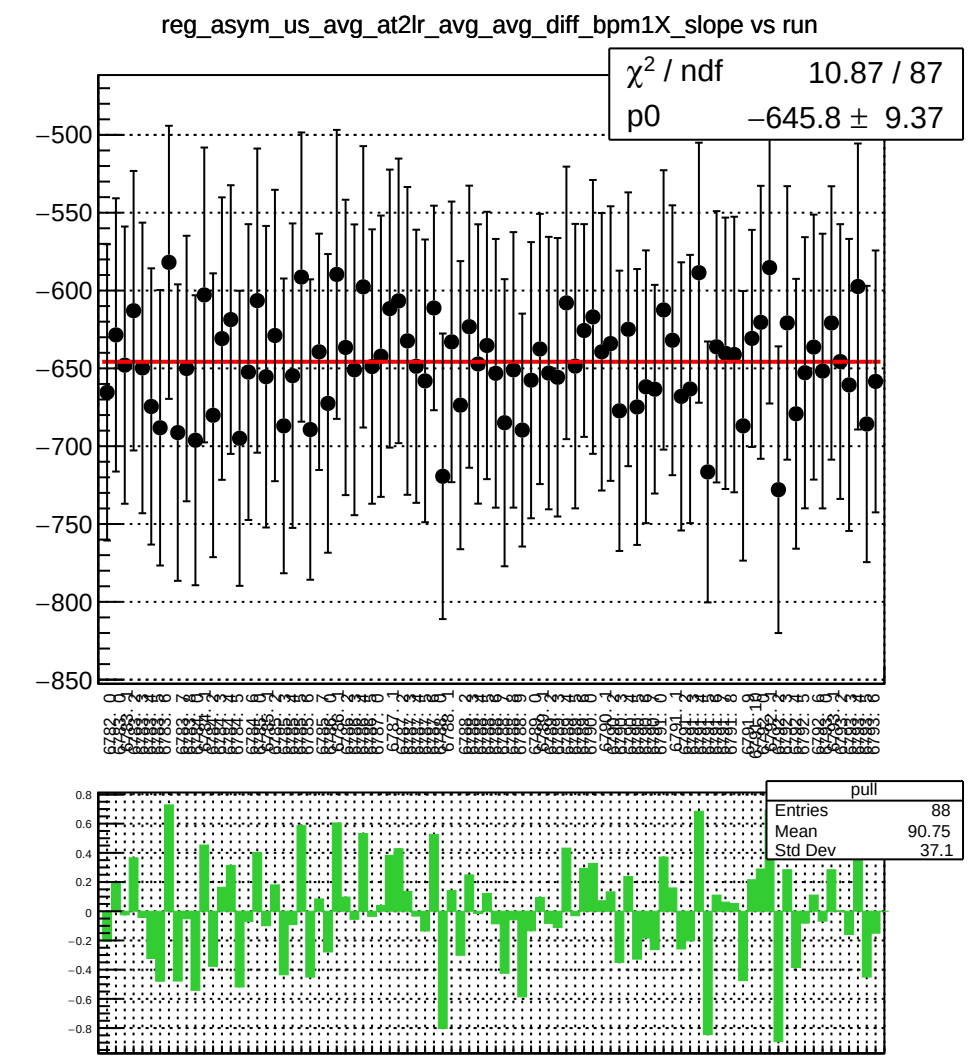

pull1D
Entries 88
Mean −0.008858
Std Dev 0.9046

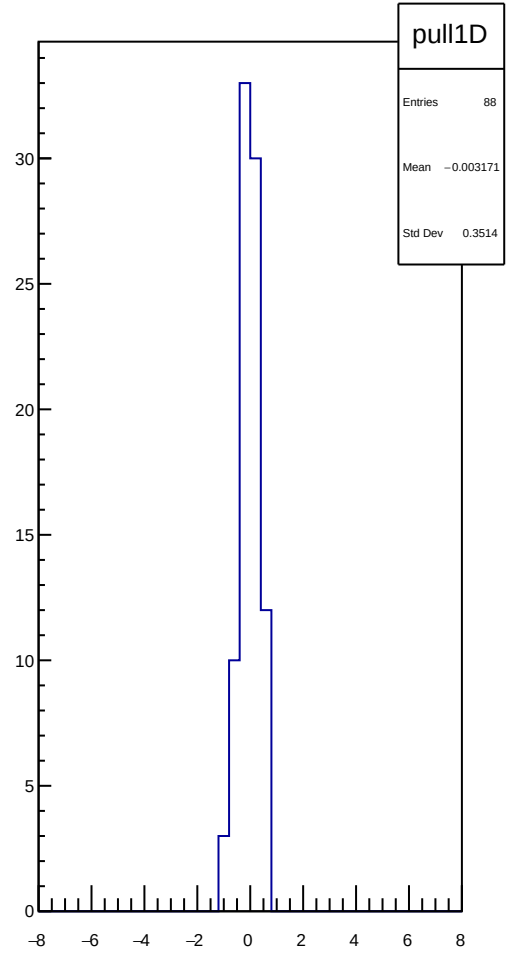

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.27 / 87
p0 52.21 ± 1.953
pull
Entries 88
Mean −466.7
Std Dev 0
pull1D
Entries 88
Mean 0.007938
Std Dev 1.024

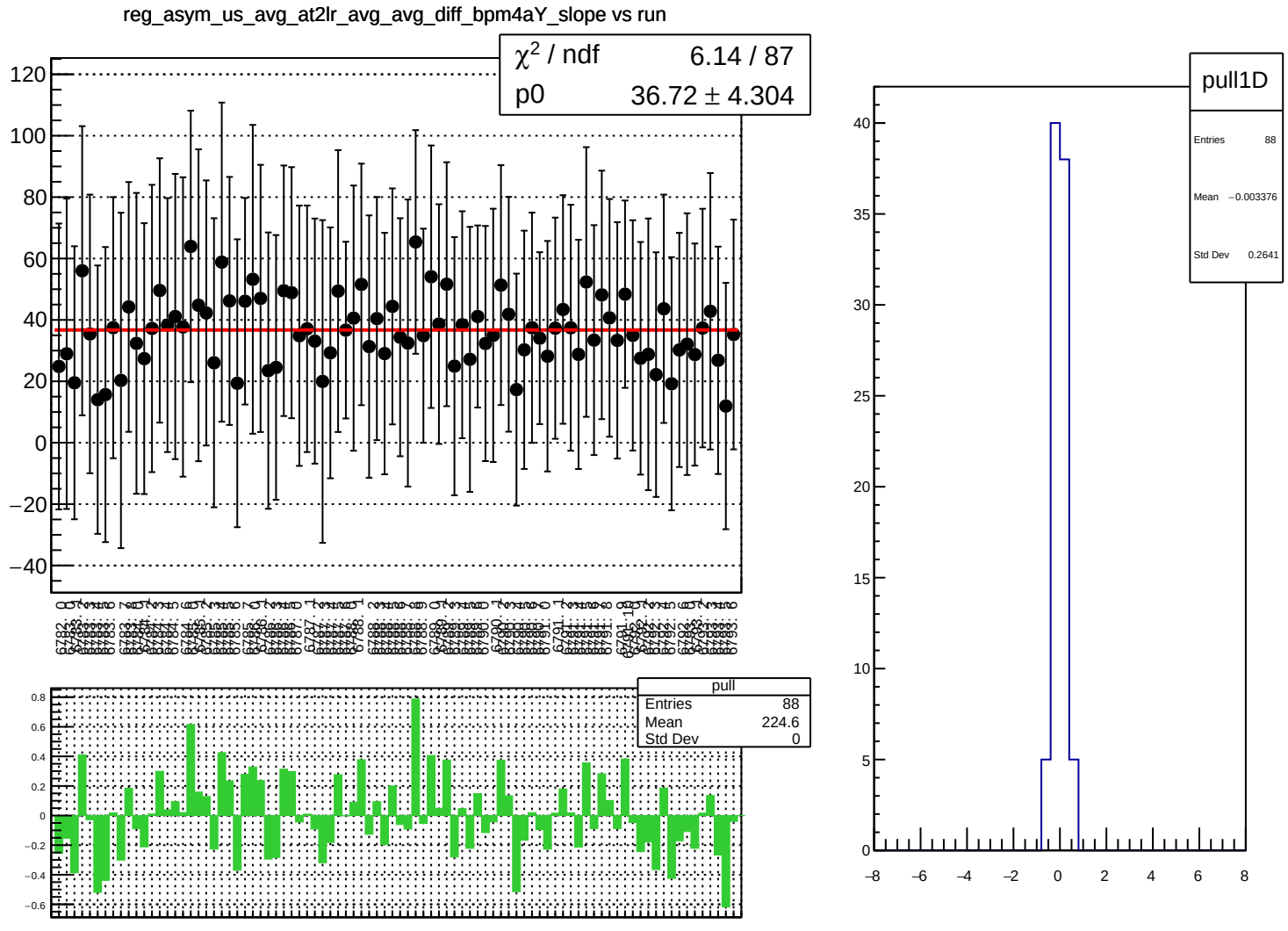

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 76.81 / 87
p0 28.33 ± 1.322
pull
Entries 88
Mean 259.8
Std Dev 0

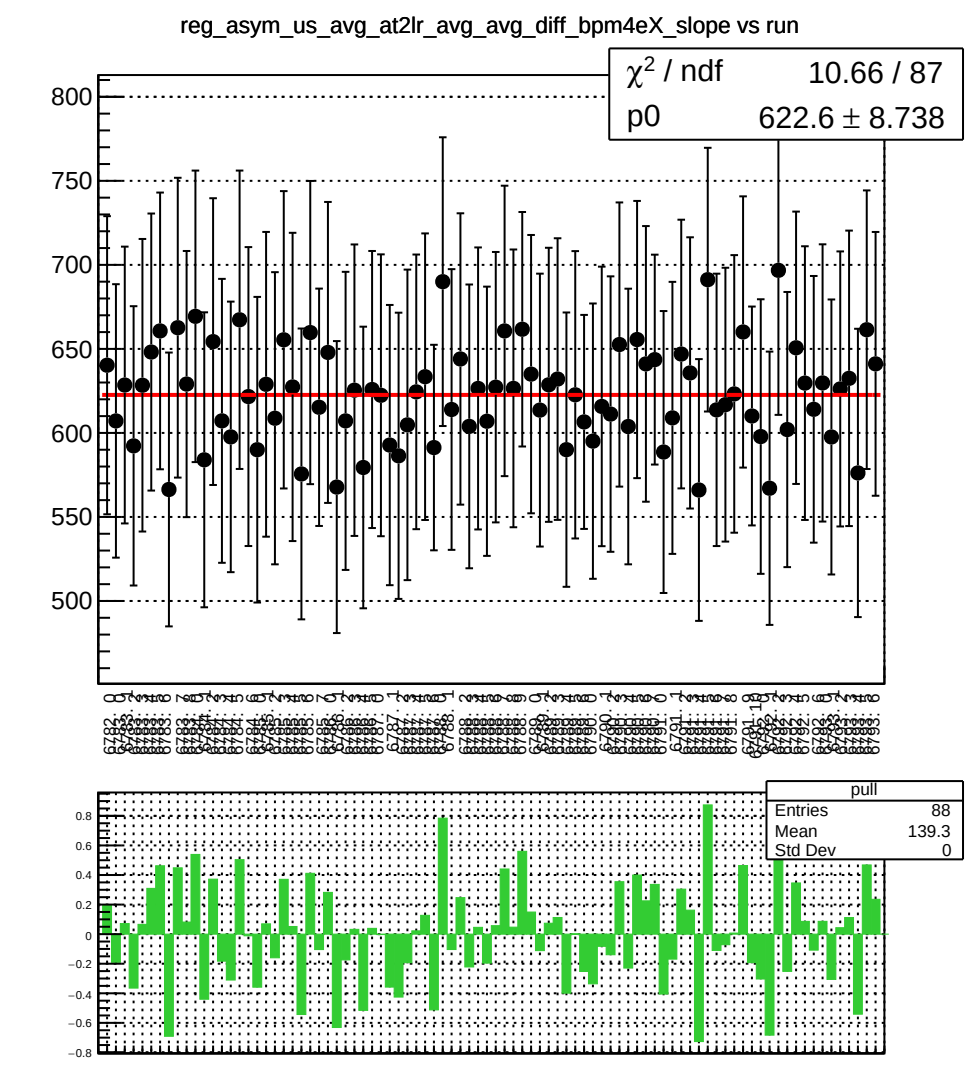

pull1D
Entries 88
Mean 0.006871
Std Dev 0.9342

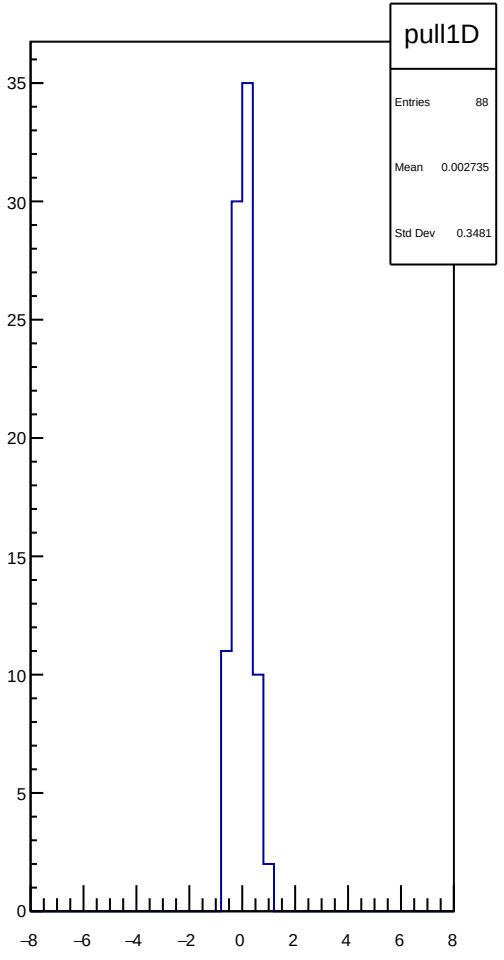

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 90.49 / 87
p0 −22.12 ± 0.08669
pull
Entries 88
Mean 627.1
Std Dev 0
pull1D
Entries 88
Mean 0.001799
Std Dev 1.014

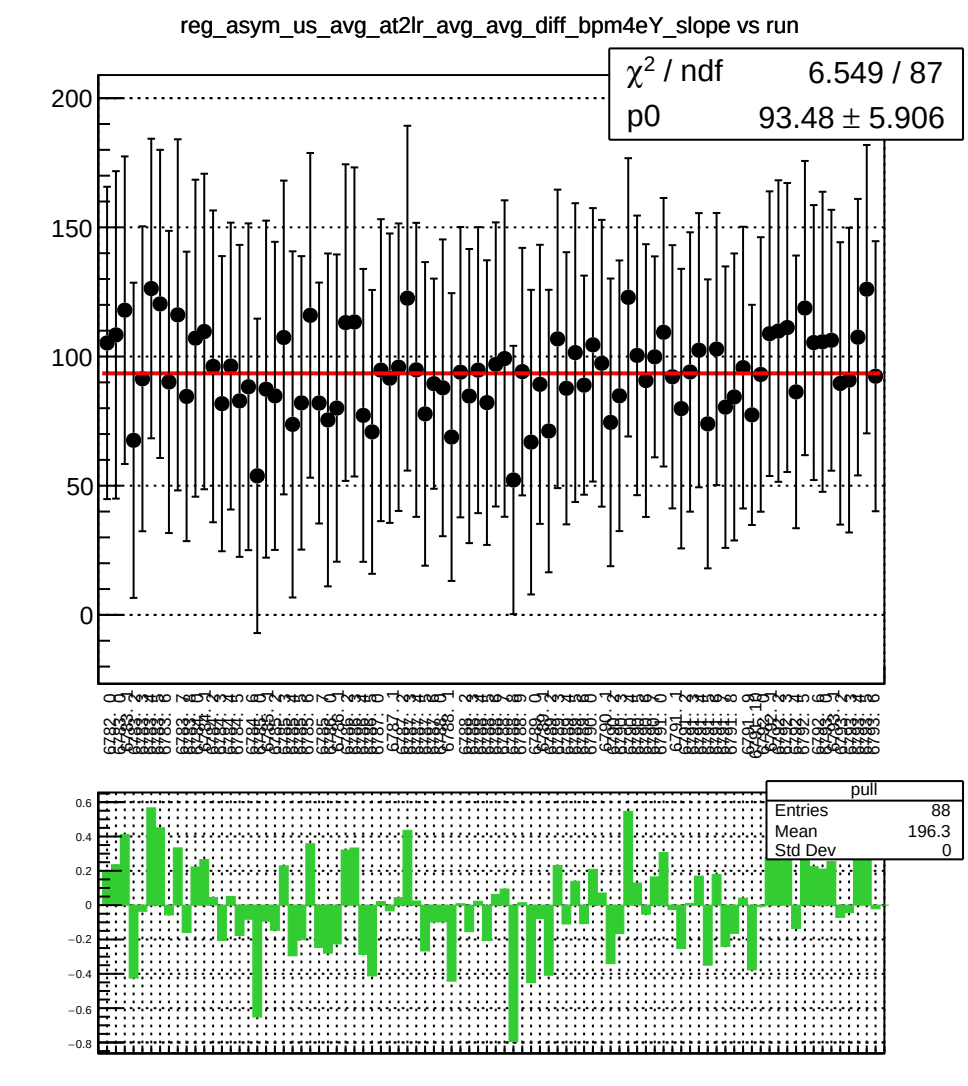

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 10.87 / 87
p0 −645.8 ± 9.37
pull
Entries 88
Mean 90.75
Std Dev 37.1

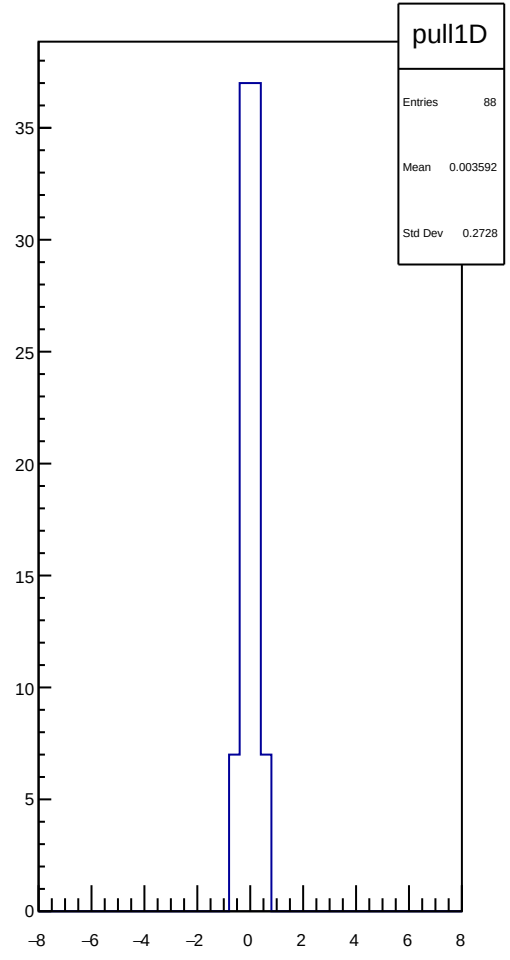

pull1D
Entries 88
Mean −0.003171
Std Dev 0.3514

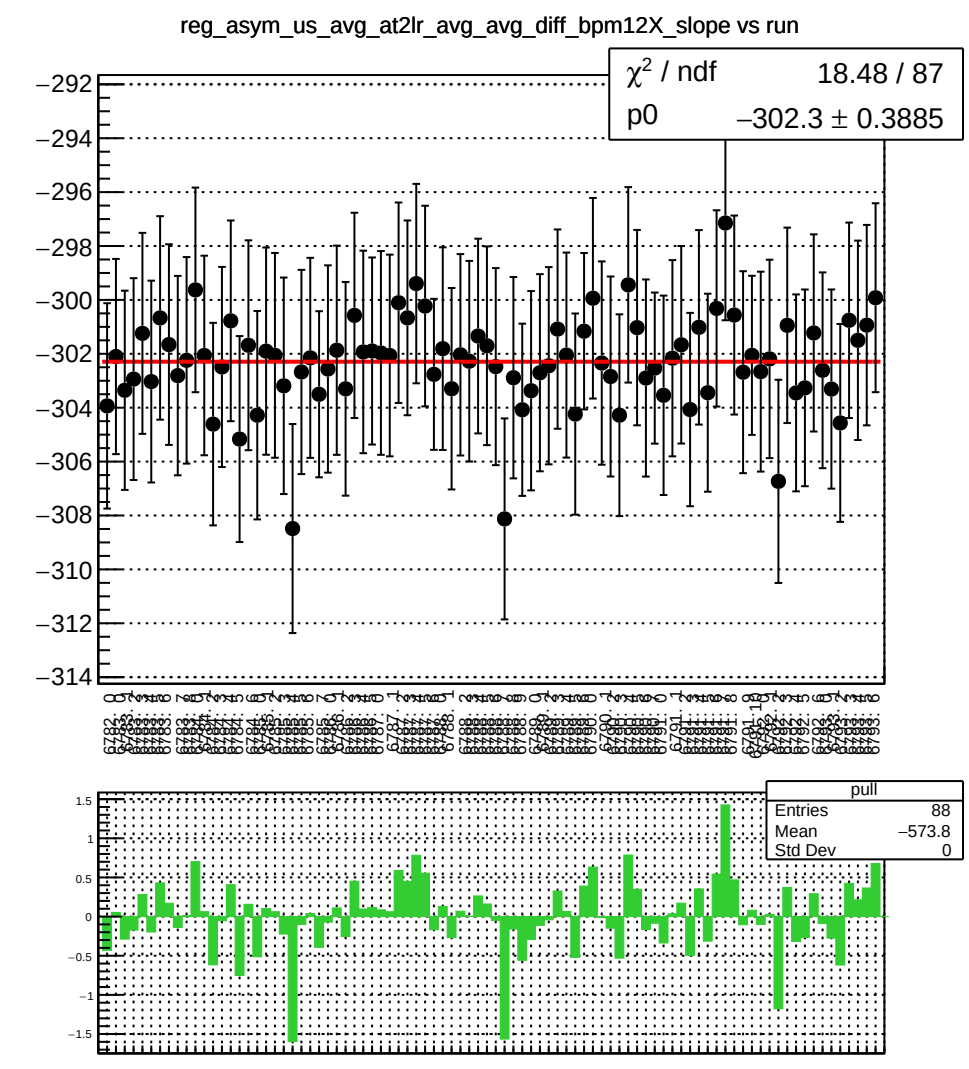

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.14 / 87
p0 36.72 ± 4.304
pull
Entries 88
Mean 224.6
Std Dev 0
pull1D
Entries 88
Mean −0.003376
Std Dev 0.2641

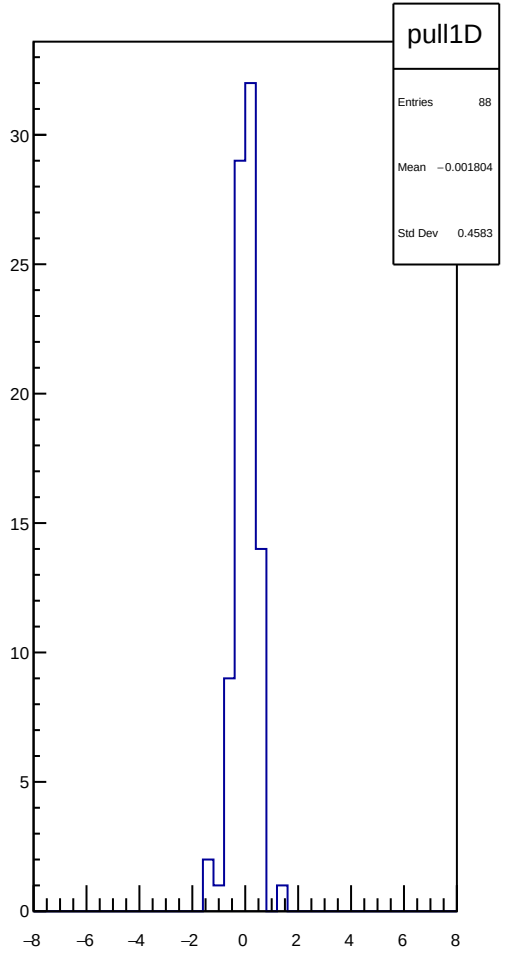

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.66 / 87
p0 622.6 ± 8.738
pull
Entries 88
Mean 139.3
Std Dev 0

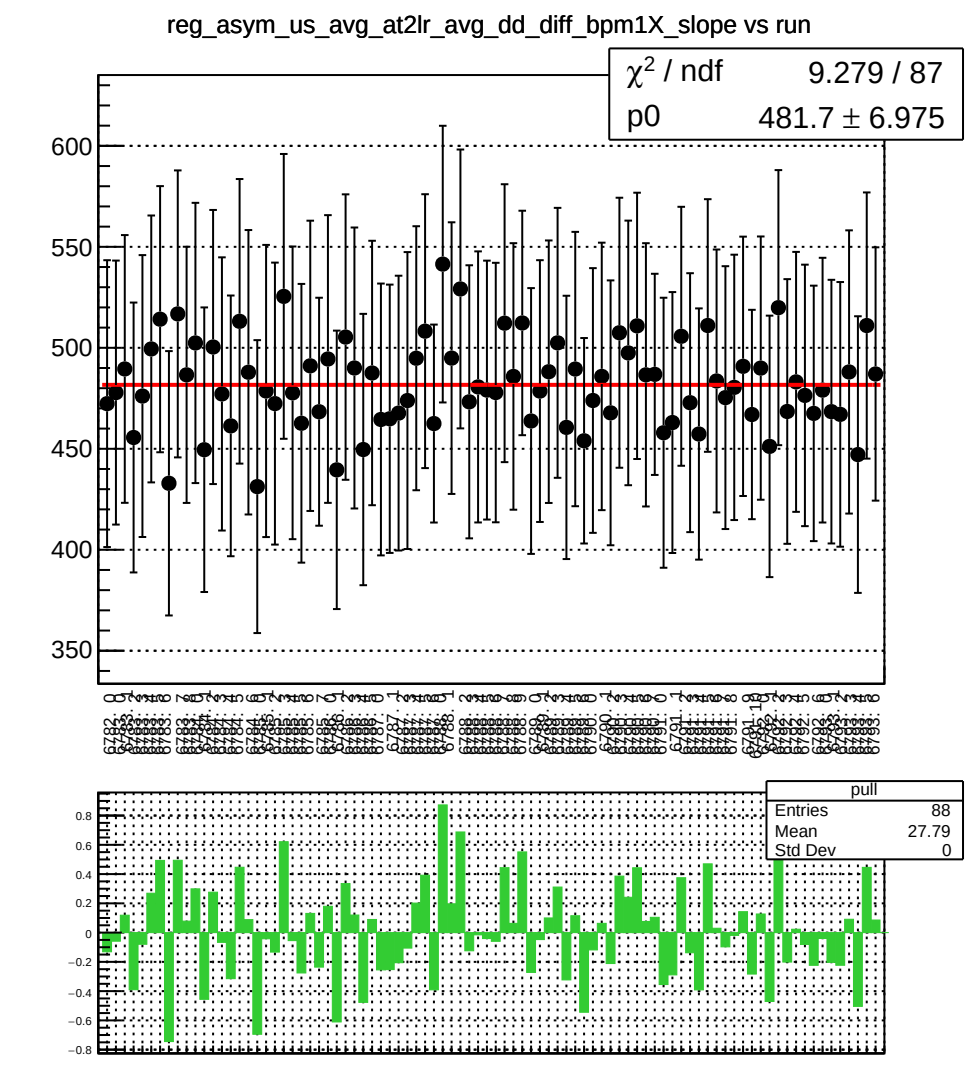

pull1D
Entries 88
Mean 0.002735
Std Dev 0.3481

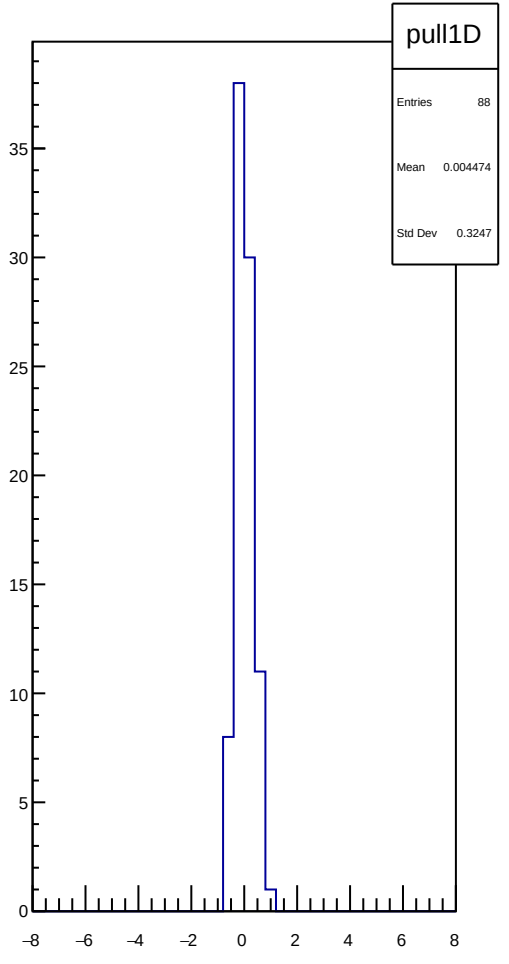

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.549 / 87
p0 93.48 ± 5.906
200
150
100
50
0
pull
Entries 88
Mean 196.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

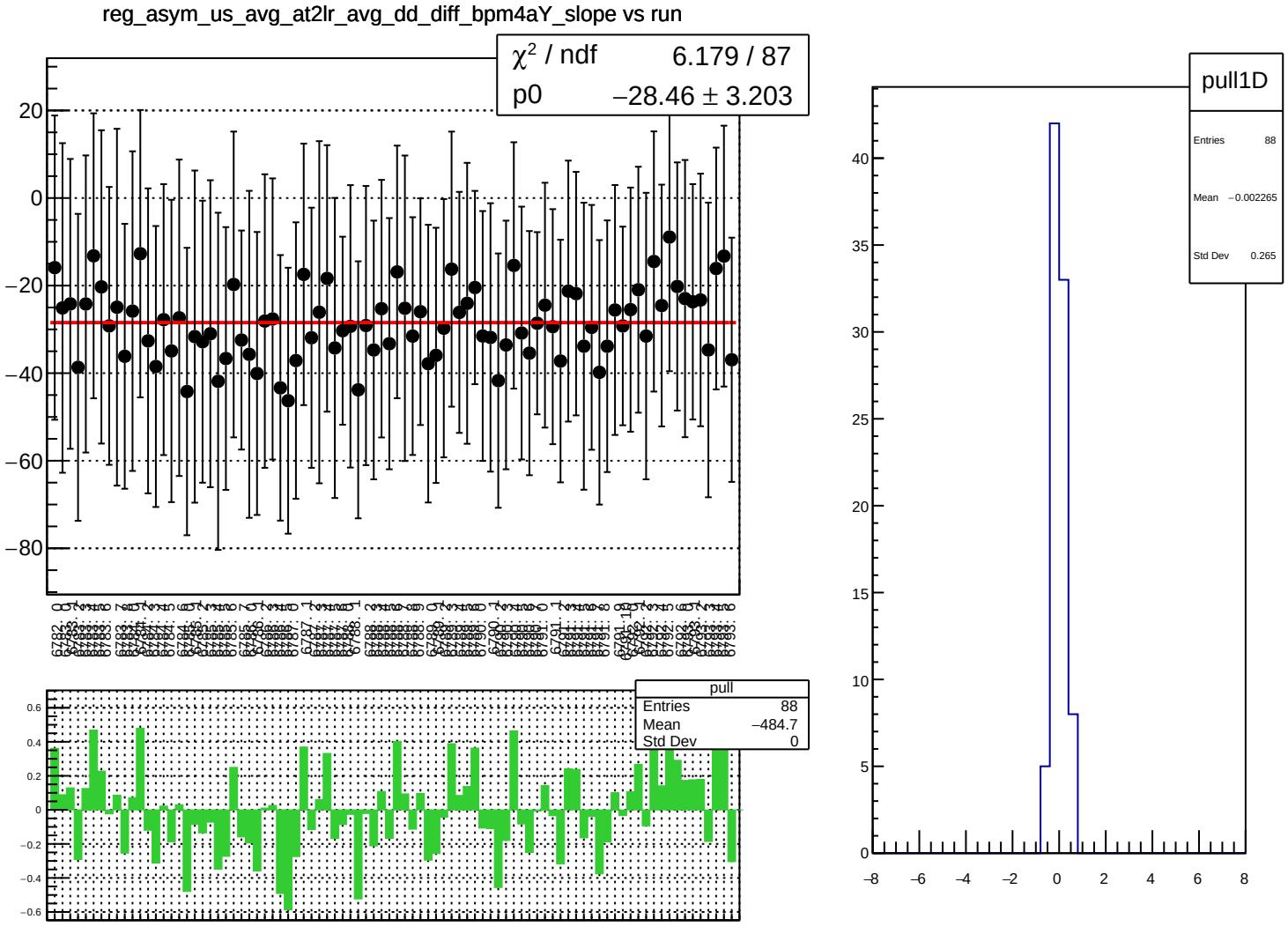

pull1D
Entries 88
Mean 0.003592
Std Dev 0.2728
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

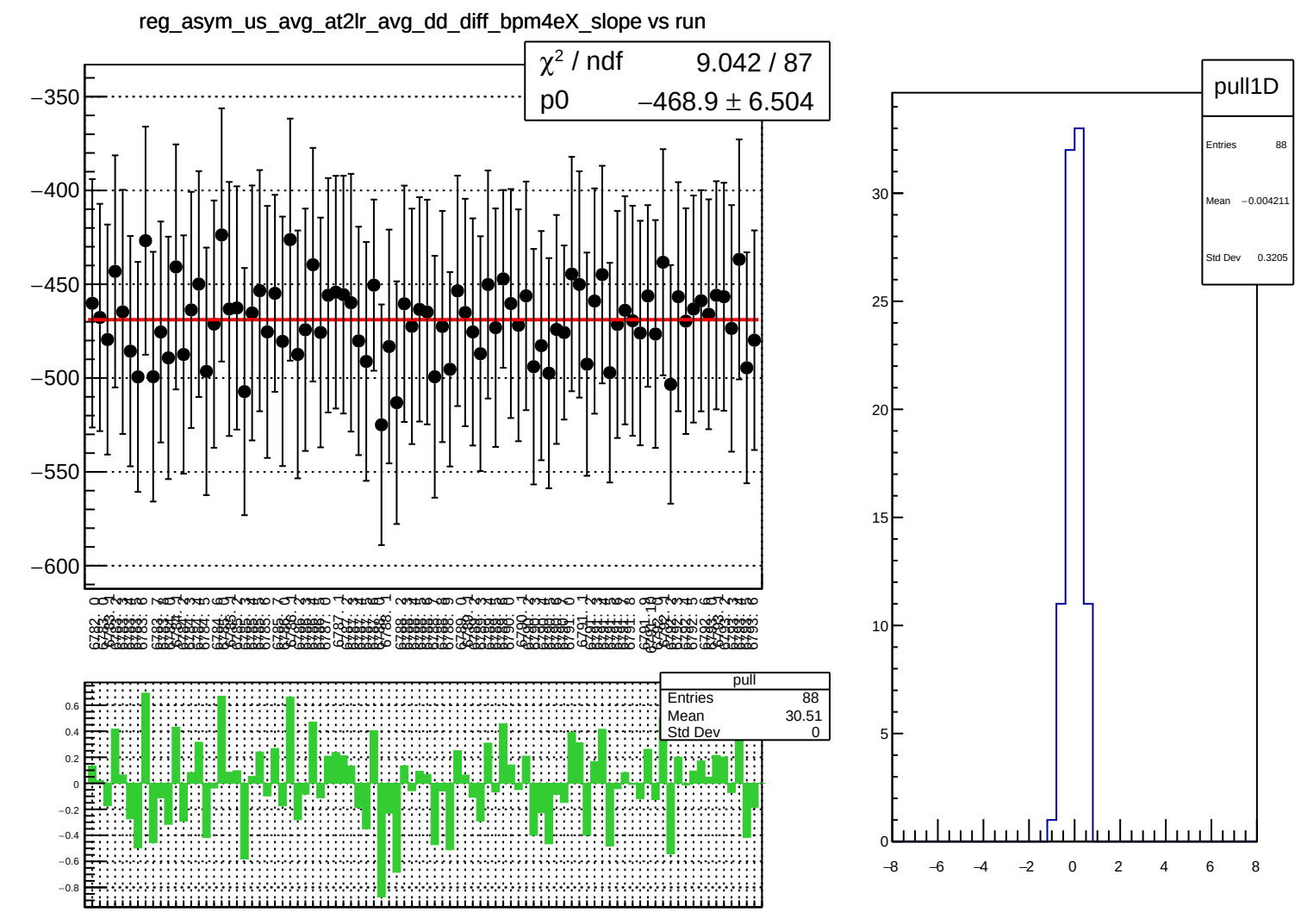

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 18.48 / 87
p0 −302.3 ± 0.3885
pull
Entries 88
Mean −573.8
Std Dev 0

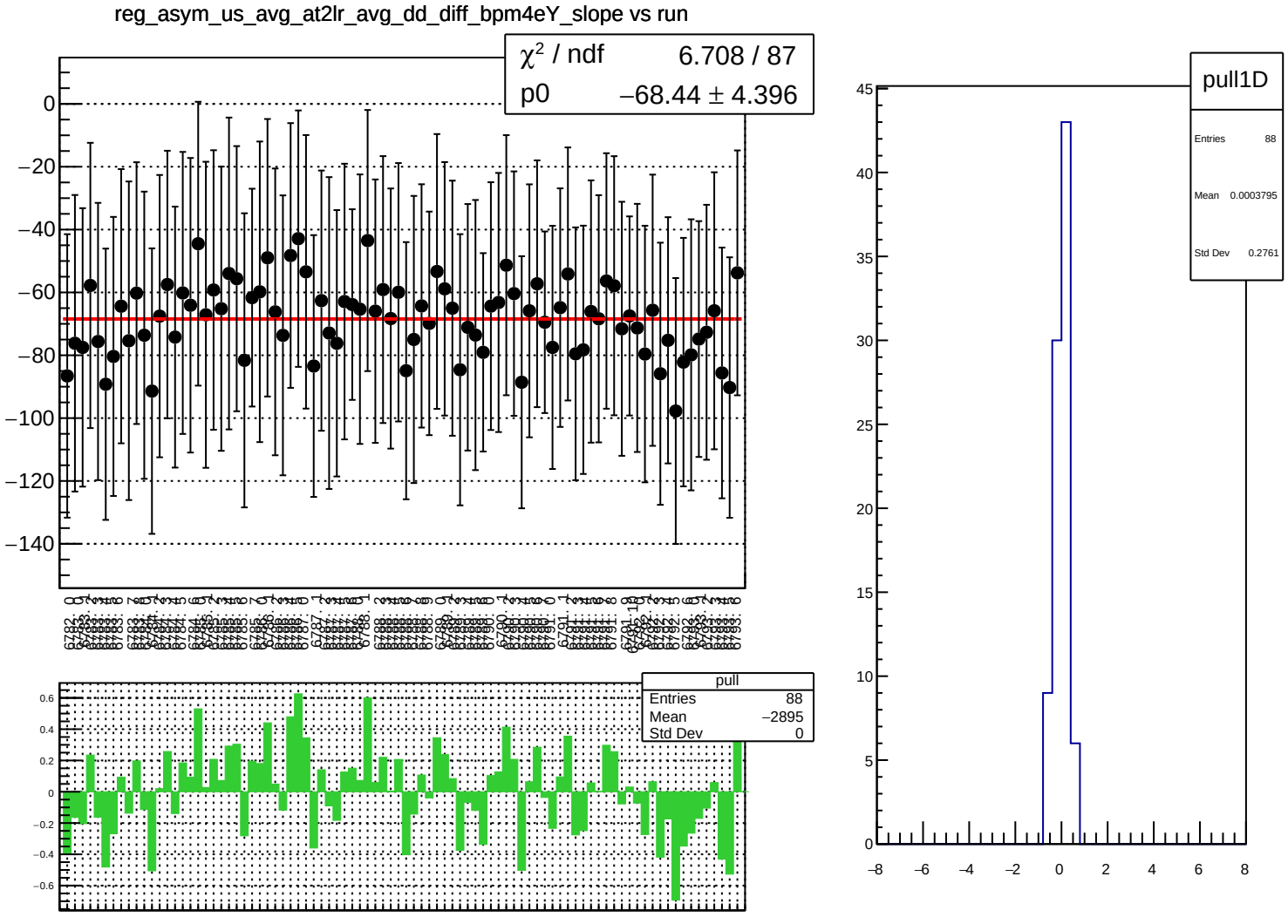

pull1D
Entries 88
Mean −0.001804
Std Dev 0.4583

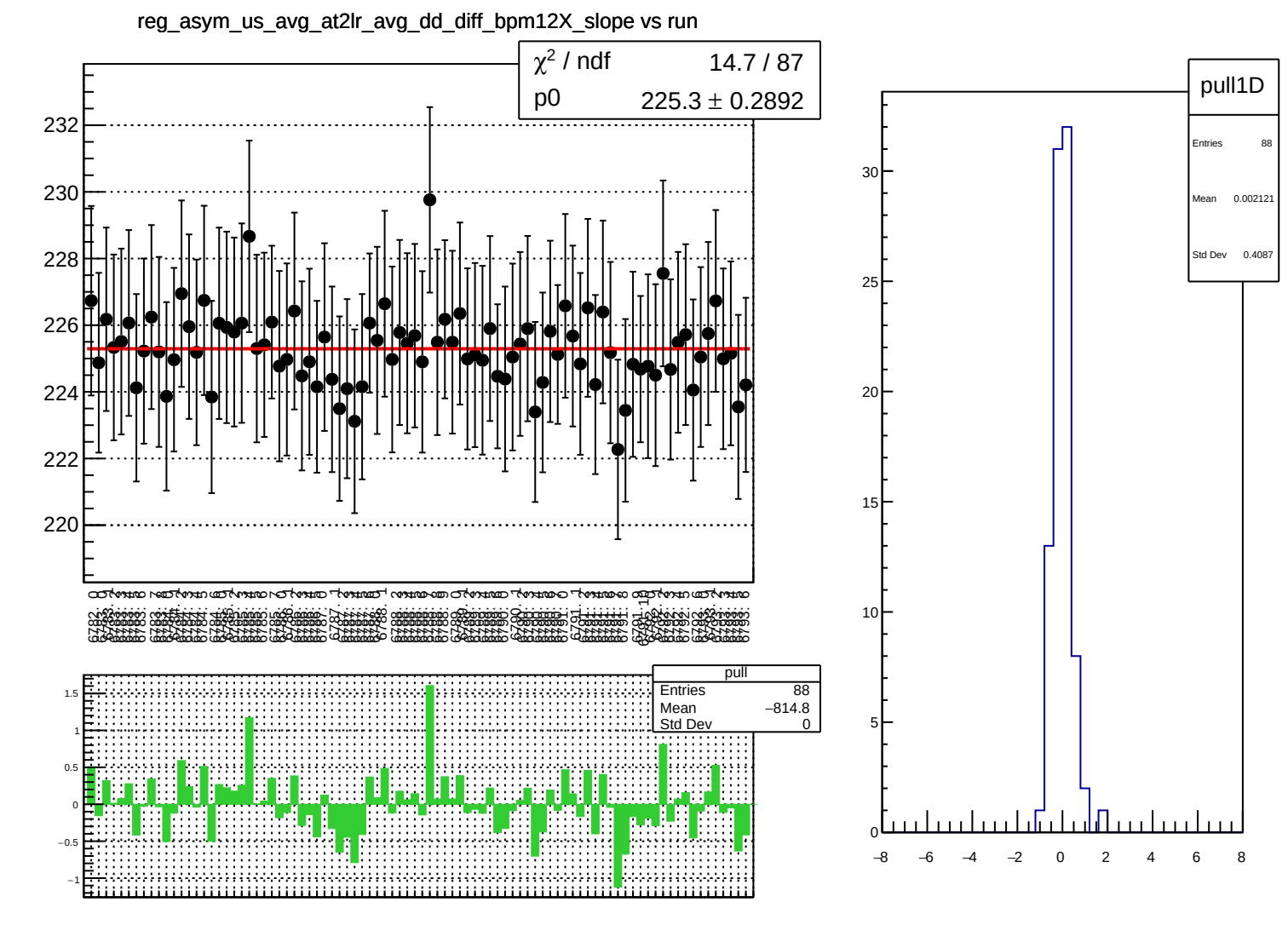

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.279 / 87
p0 481.7 ± 6.975
600
550
500
450
400
350
pull
Entries 88
Mean 27.79
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

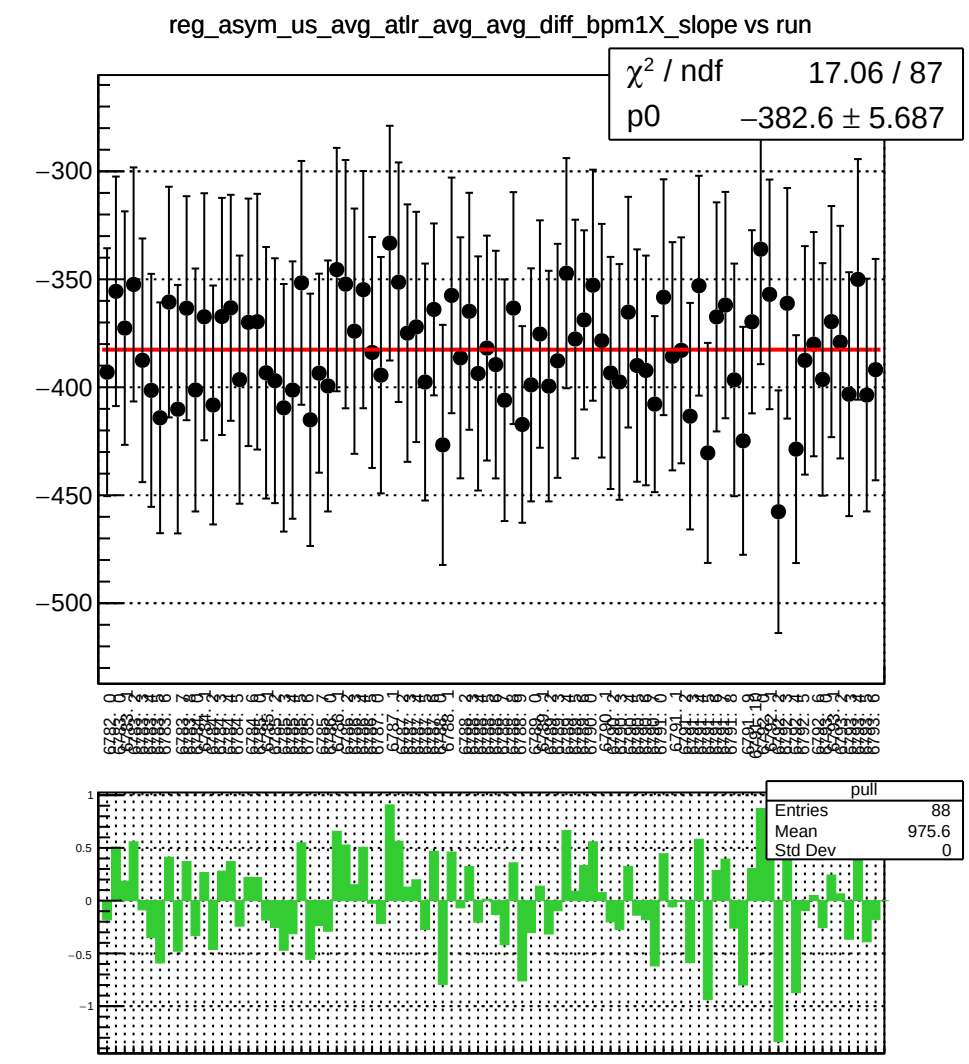

pull1D
Entries 88
Mean 0.004474
Std Dev 0.3247
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

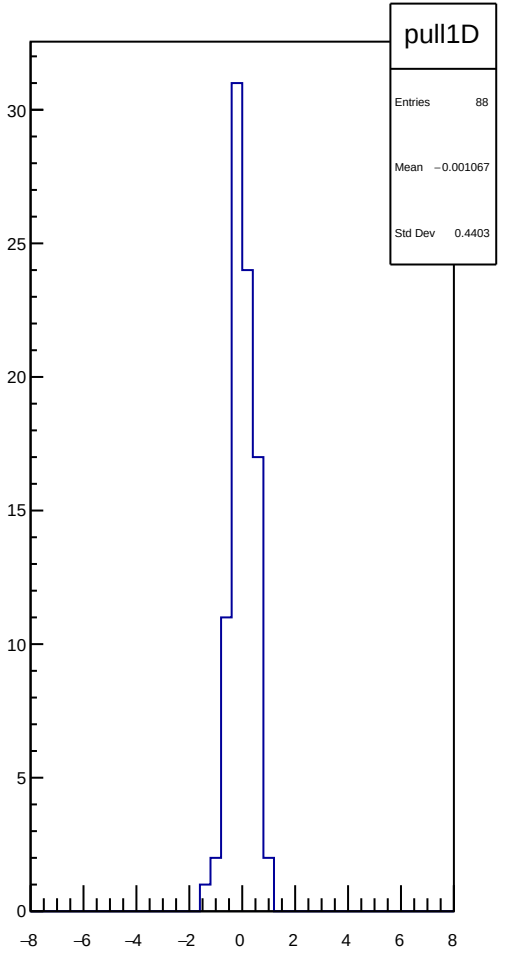

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.179 / 87
p0 −28.46 ± 3.203
pull
Entries 88
Mean −484.7
Std Dev 0
pull1D
Entries 88
Mean −0.002265
Std Dev 0.265

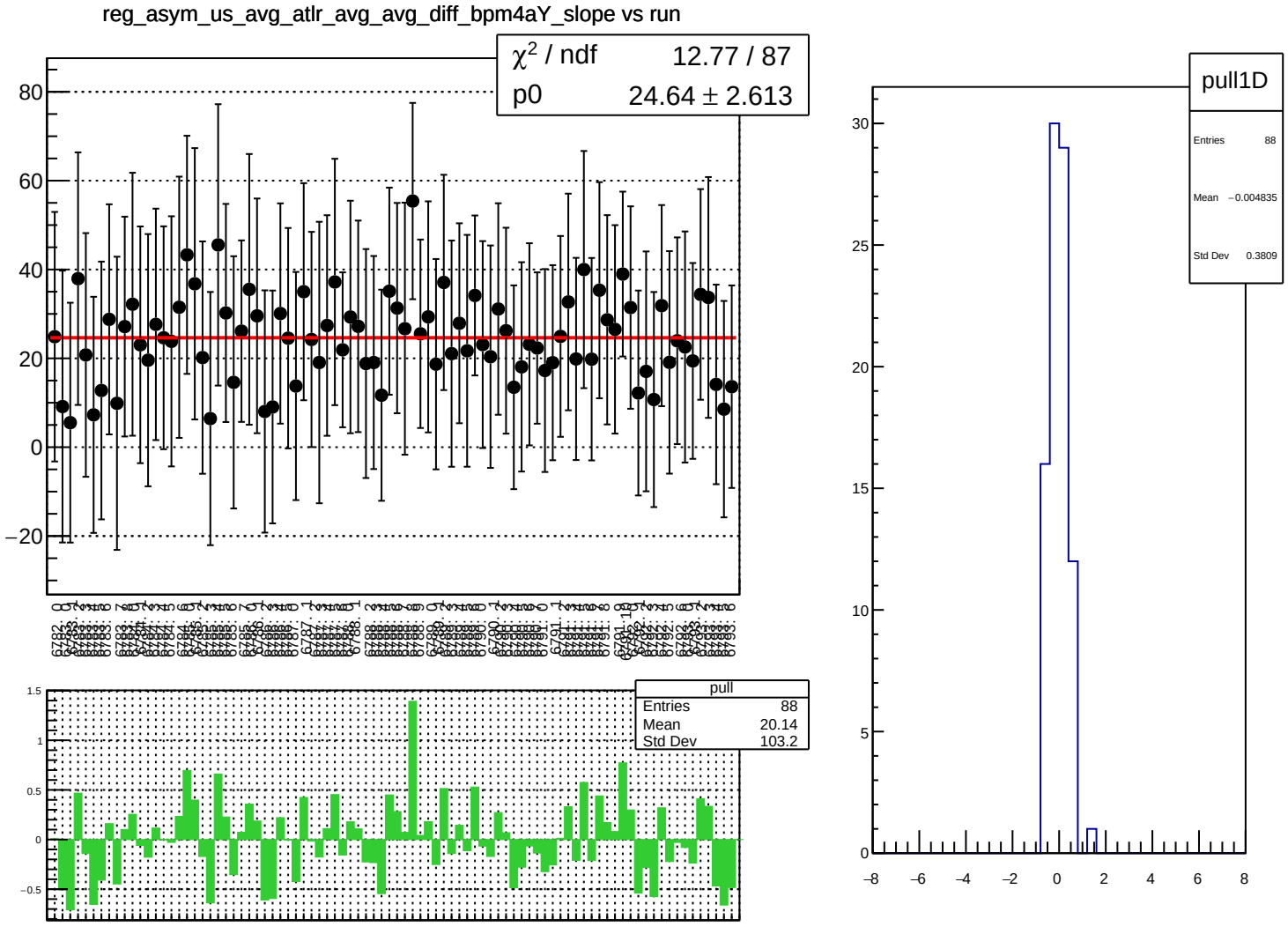

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.042 / 87
p0 −468.9 ± 6.504
−350
−400
−450
−500
−550
−600
pull
Entries 88
Mean 30.51
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.004211
Std Dev 0.3205
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

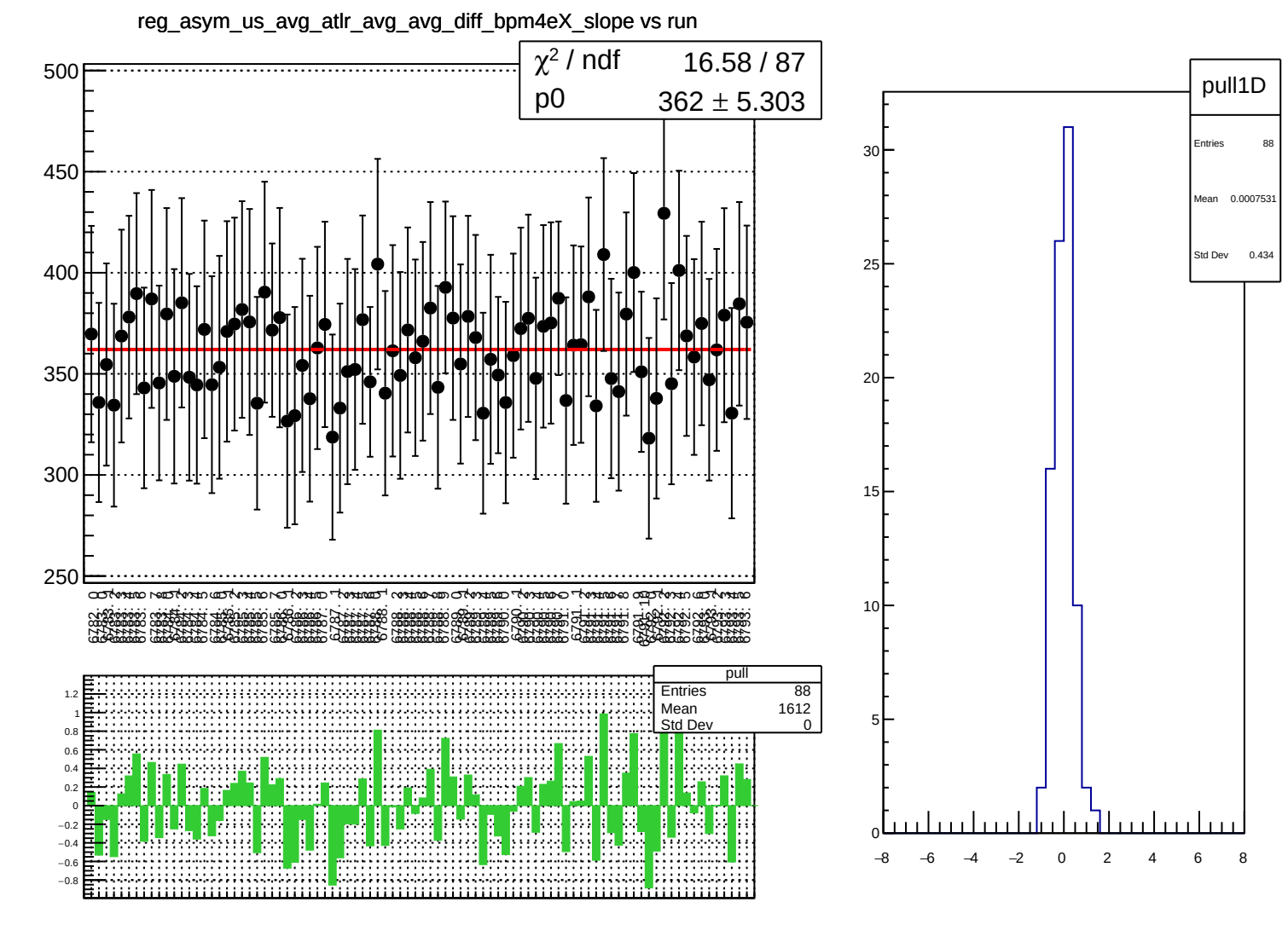

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.708 / 87
p0 −68.44 ± 4.396
pull
Entries 88
Mean −2895
Std Dev 0
pull1D
Entries 88
Mean 0.0003795
Std Dev 0.2761

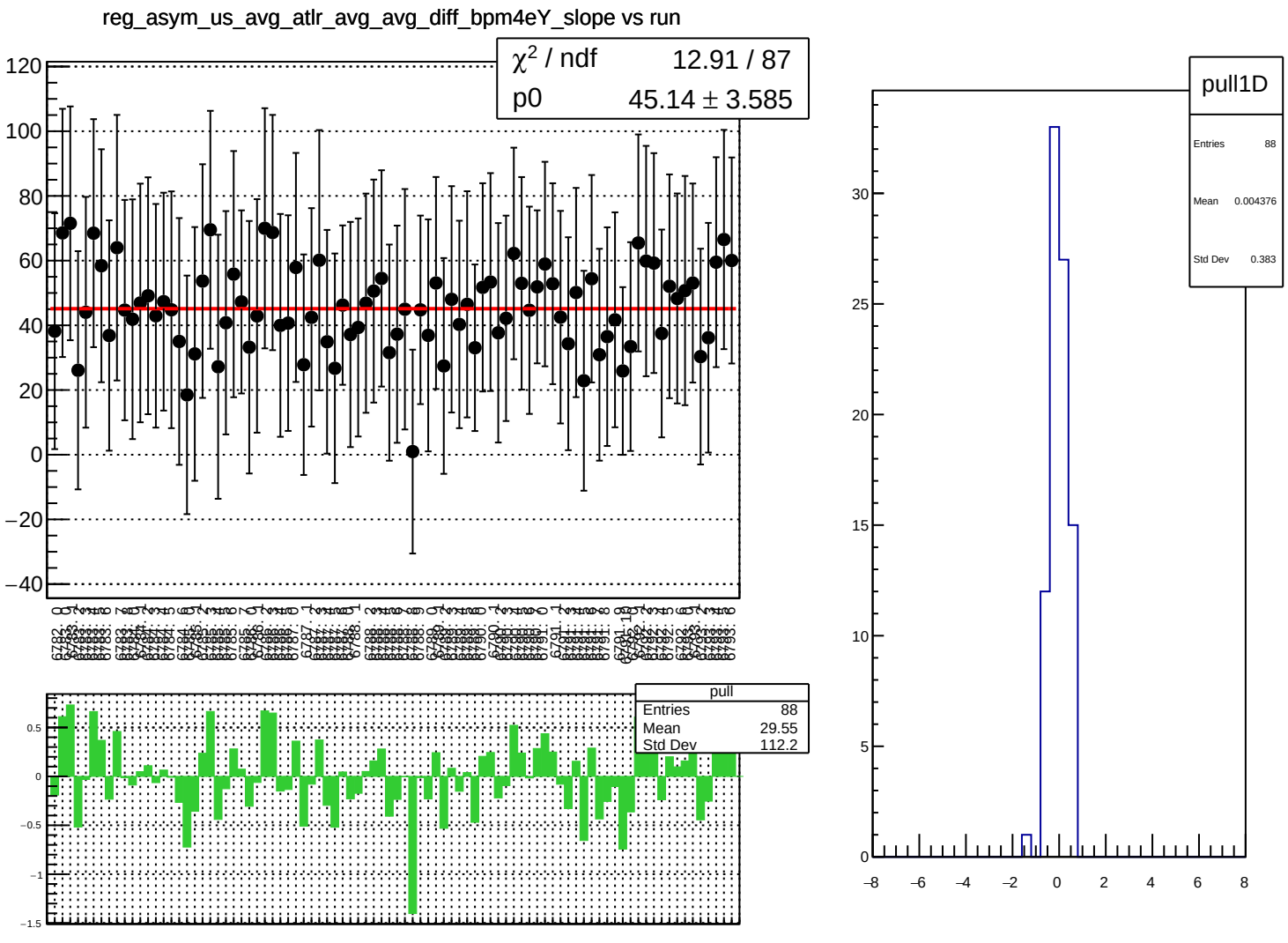

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 14.7 / 87
p0 225.3 ± 0.2892
232
230
228
226
224
222
220
pull
Entries 88
Mean −814.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002121
Std Dev 0.4087
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

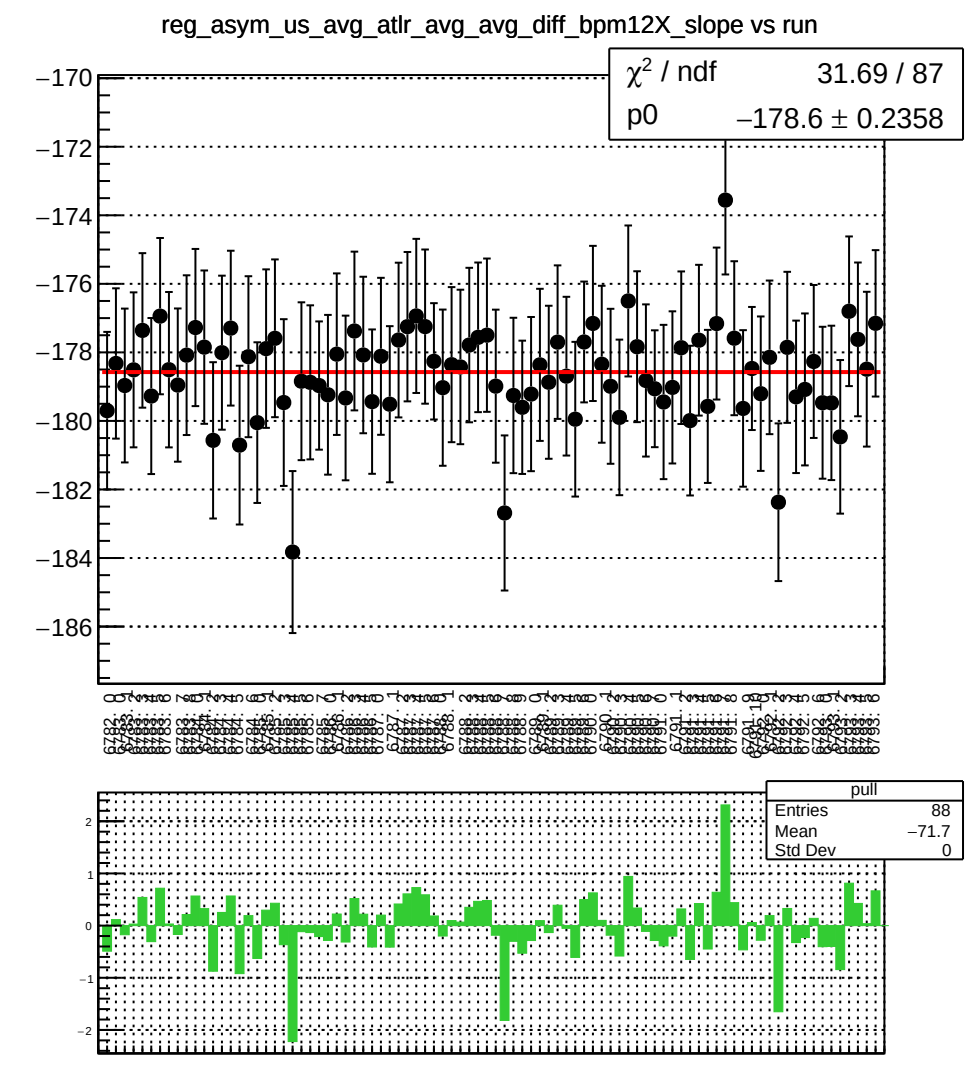

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 17.06 / 87
p0 −382.6 ± 5.687
−300
−350
−400
−450
−500
pull
Entries 88
Mean 975.6
Std Dev 0
1
0.5
0
−0.5
−1

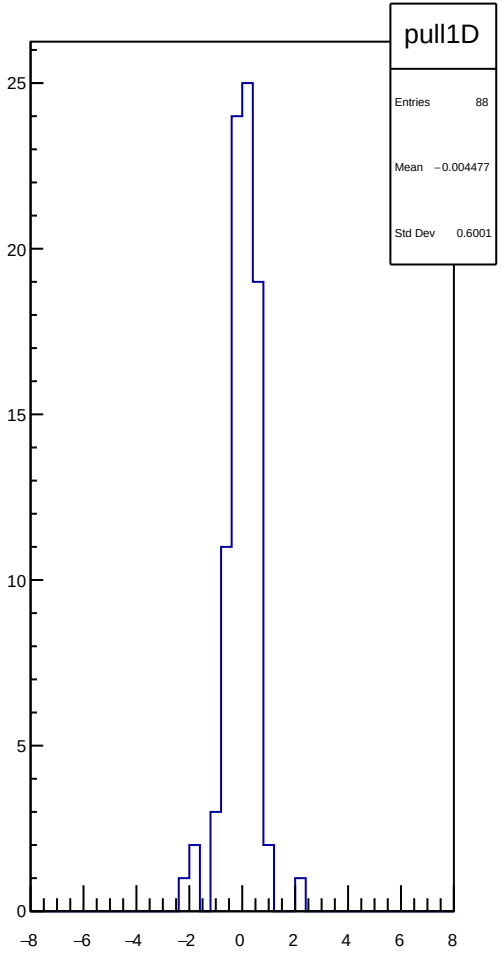

pull1D
Entries 88
Mean −0.001067
Std Dev 0.4403
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

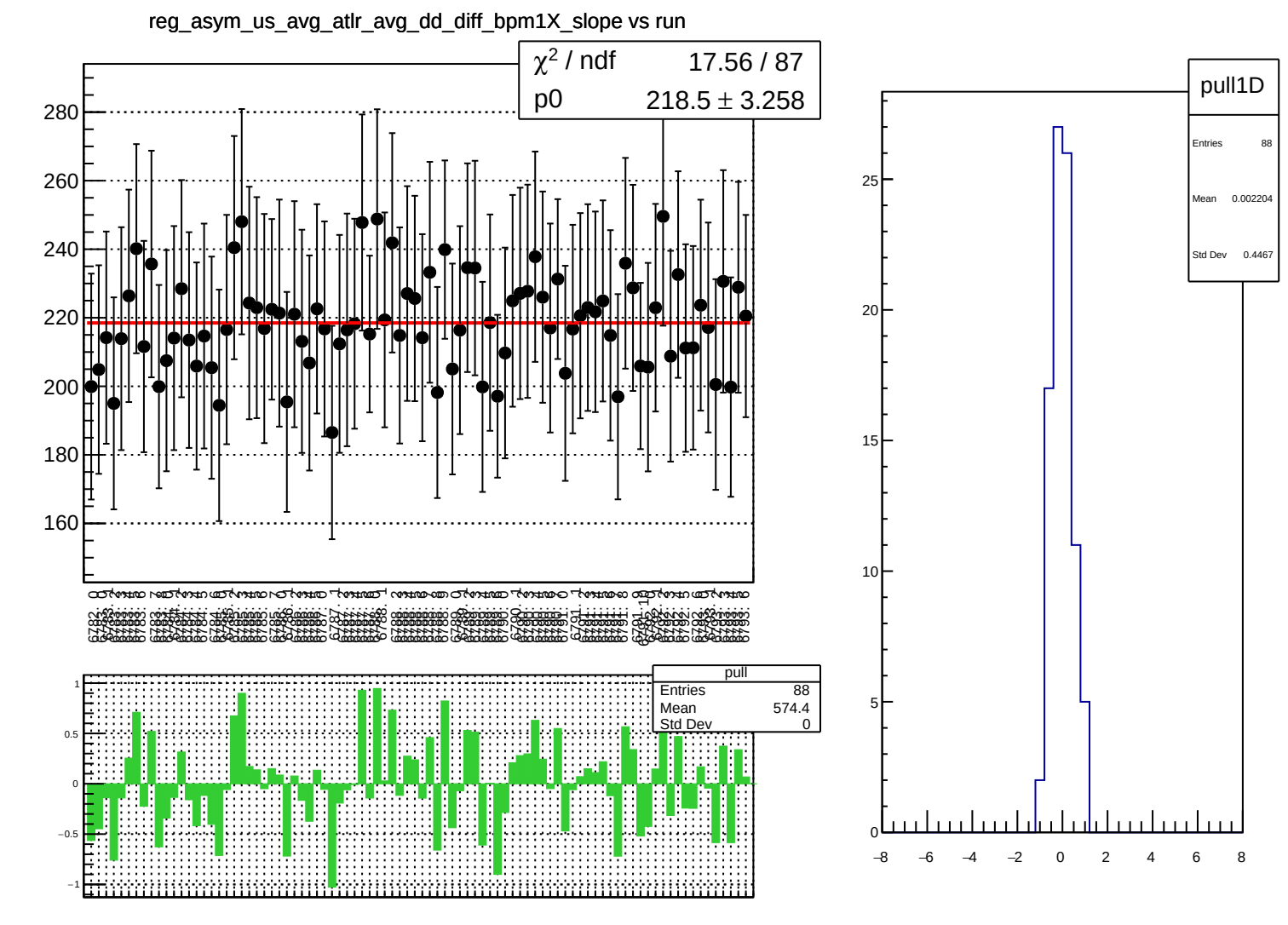

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.77 / 87
p0 24.64 ± 2.613
pull
Entries 88
Mean 20.14
Std Dev 103.2
pull1D
Entries 88
Mean −0.004835
Std Dev 0.3809

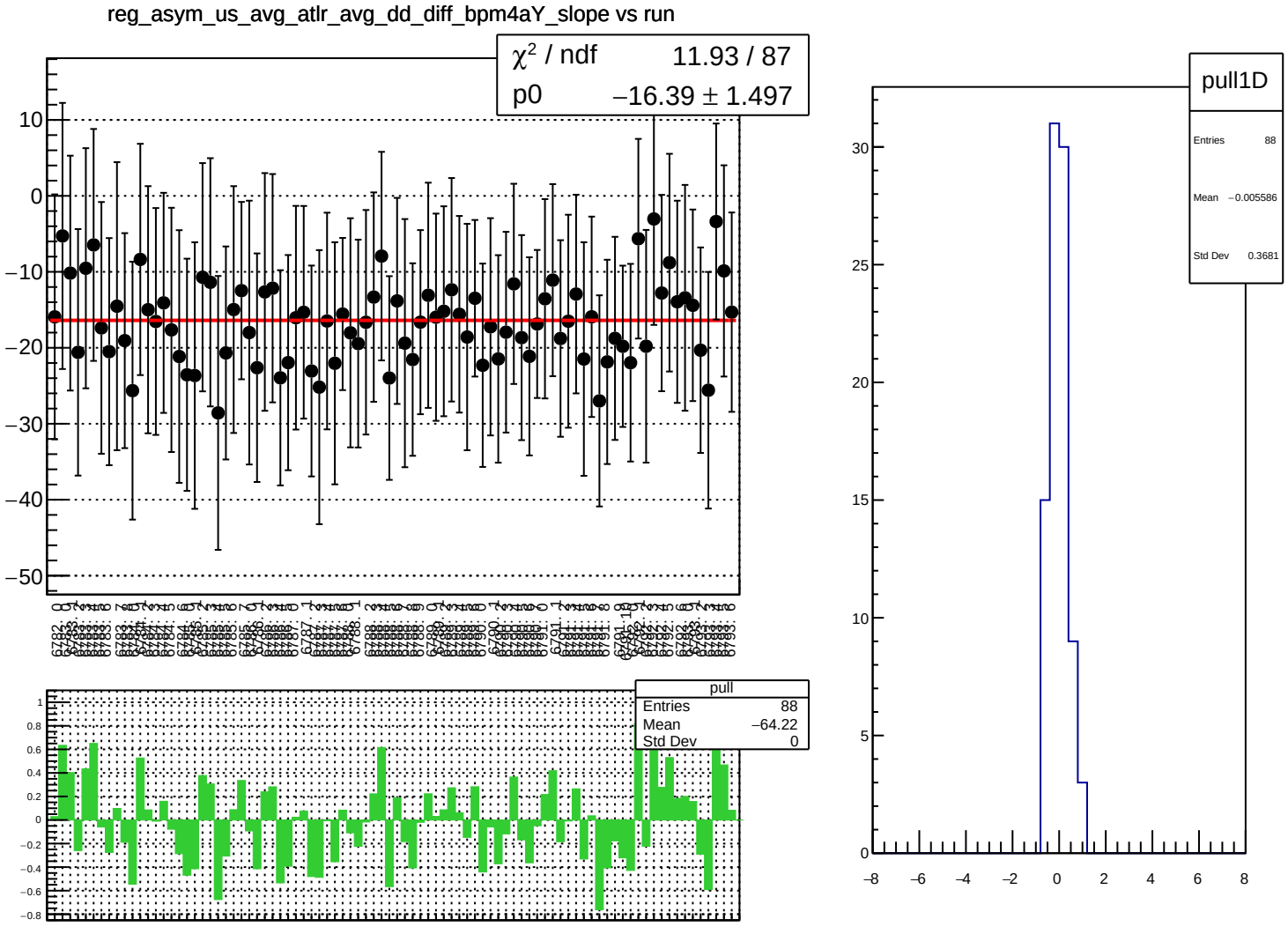

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.58 / 87
p0 362 ± 5.303
pull
Entries 88
Mean 1612
Std Dev 0
pull1D
Entries 88
Mean 0.0007531
Std Dev 0.434

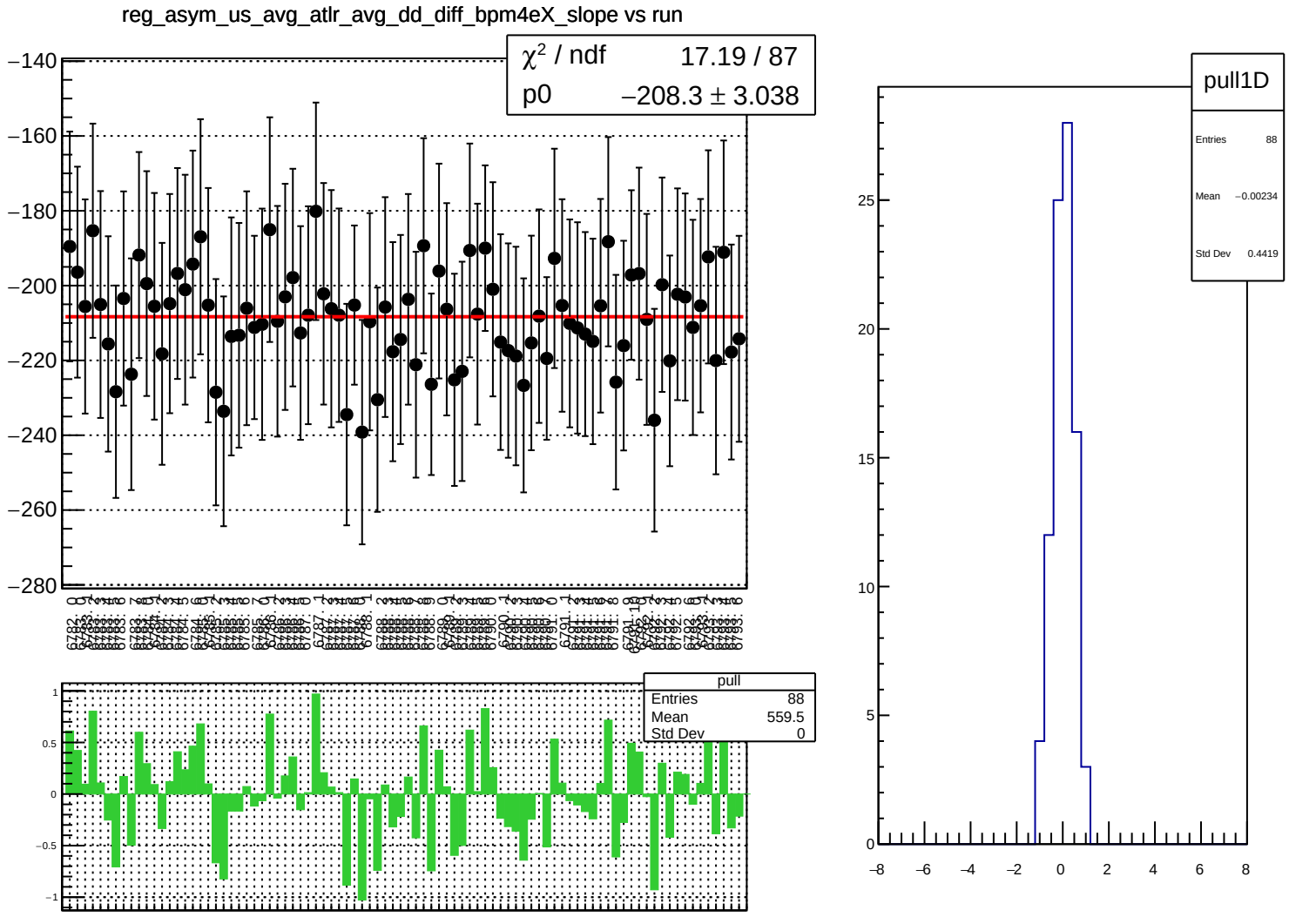

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.91 / 87
p0 45.14 ± 3.585
pull
Entries 88
Mean 29.55
Std Dev 112.2
pull1D
Entries 88
Mean 0.004376
Std Dev 0.383

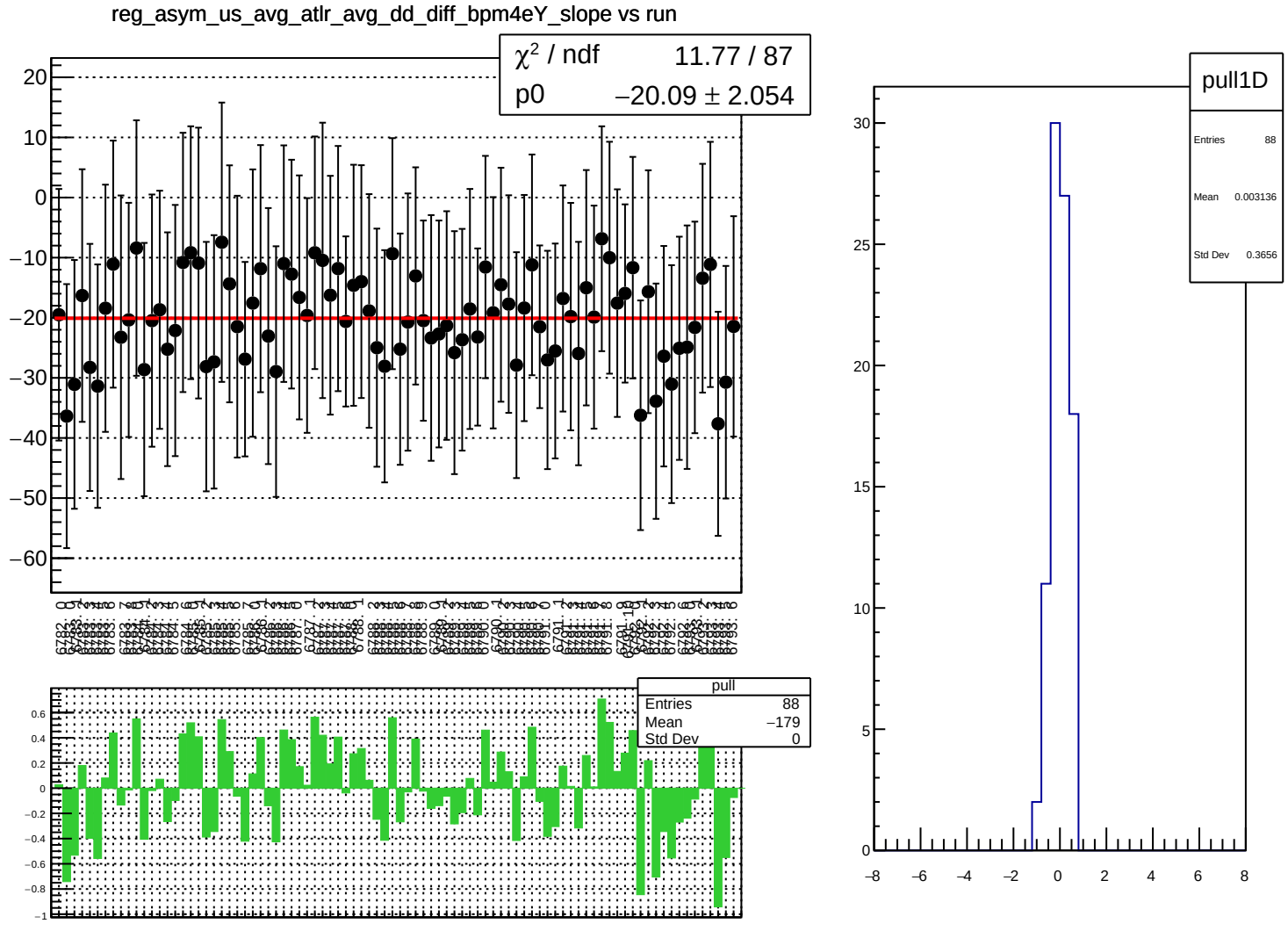

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 31.69 / 87
p0 −178.6 ± 0.2358
pull
Entries 88
Mean −71.7
Std Dev 0

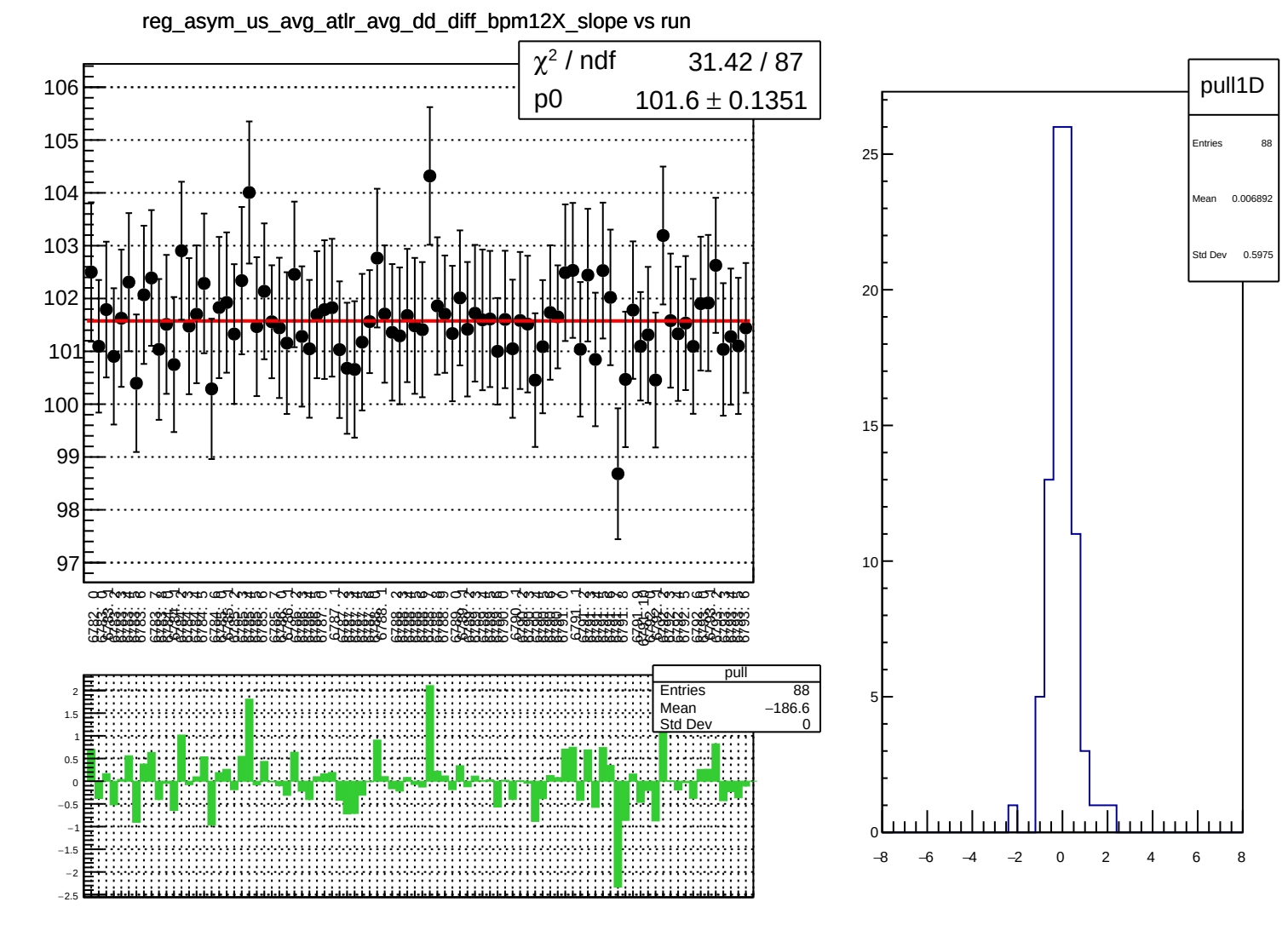

pull1D
Entries 88
Mean −0.004477
Std Dev 0.6001

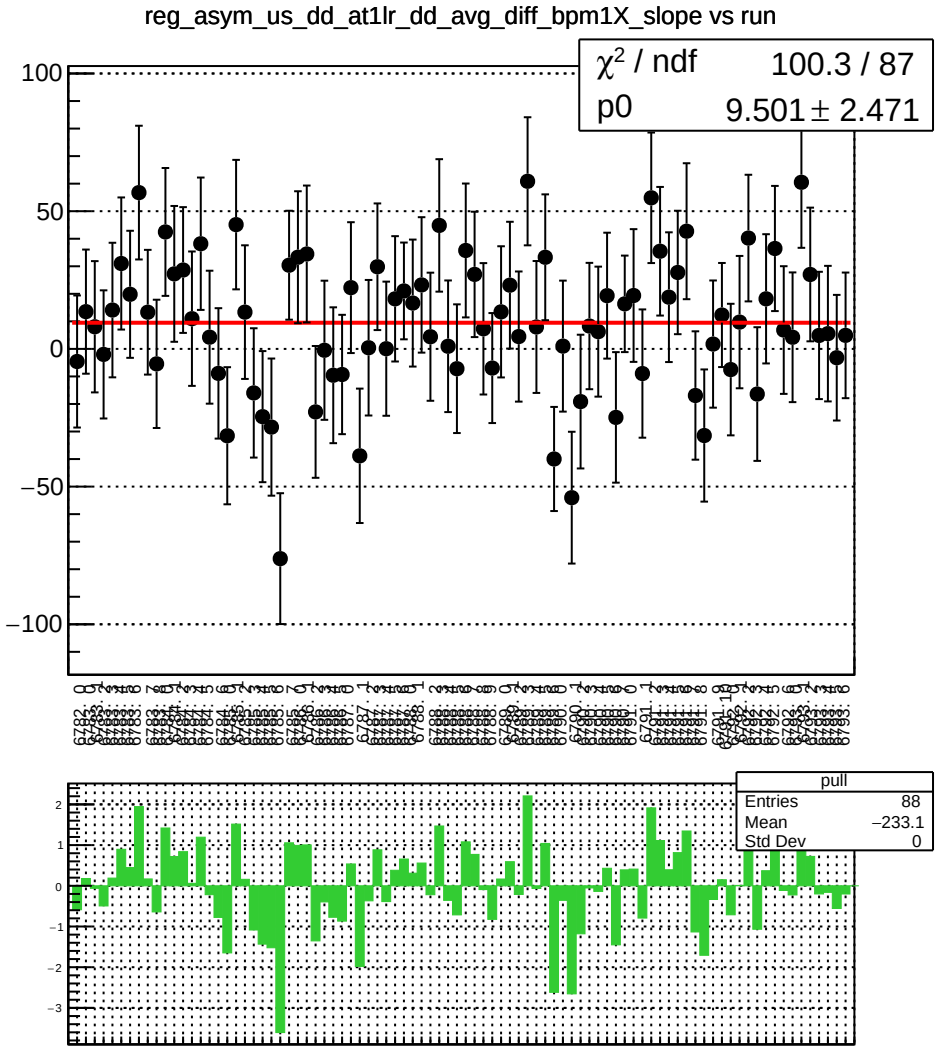

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 17.56 / 87
p0 218.5 ± 3.258
280
260
240
220
200
180
160
pull
Entries 88
Mean 574.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002204
Std Dev 0.4467
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

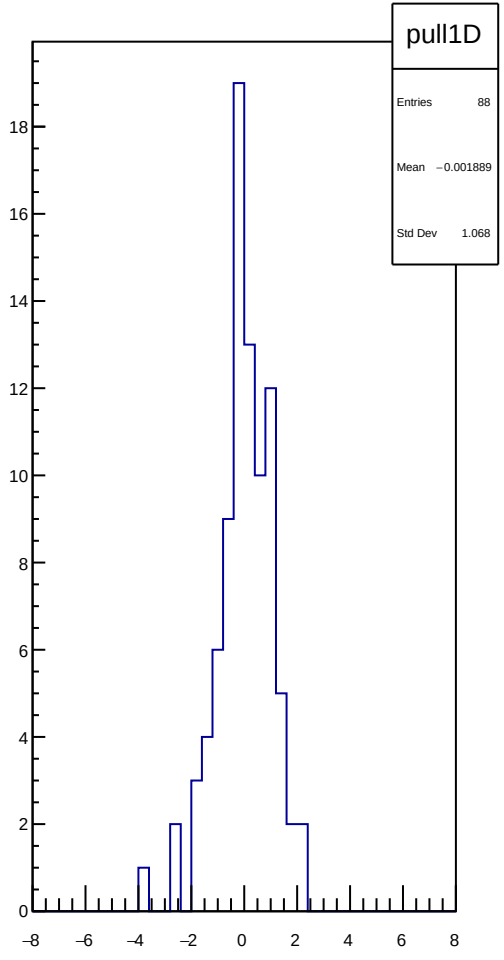

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.93 / 87
p0 −16.39 ± 1.497
pull
Entries 88
Mean −64.22
Std Dev 0
pull1D
Entries 88
Mean −0.005586
Std Dev 0.3681

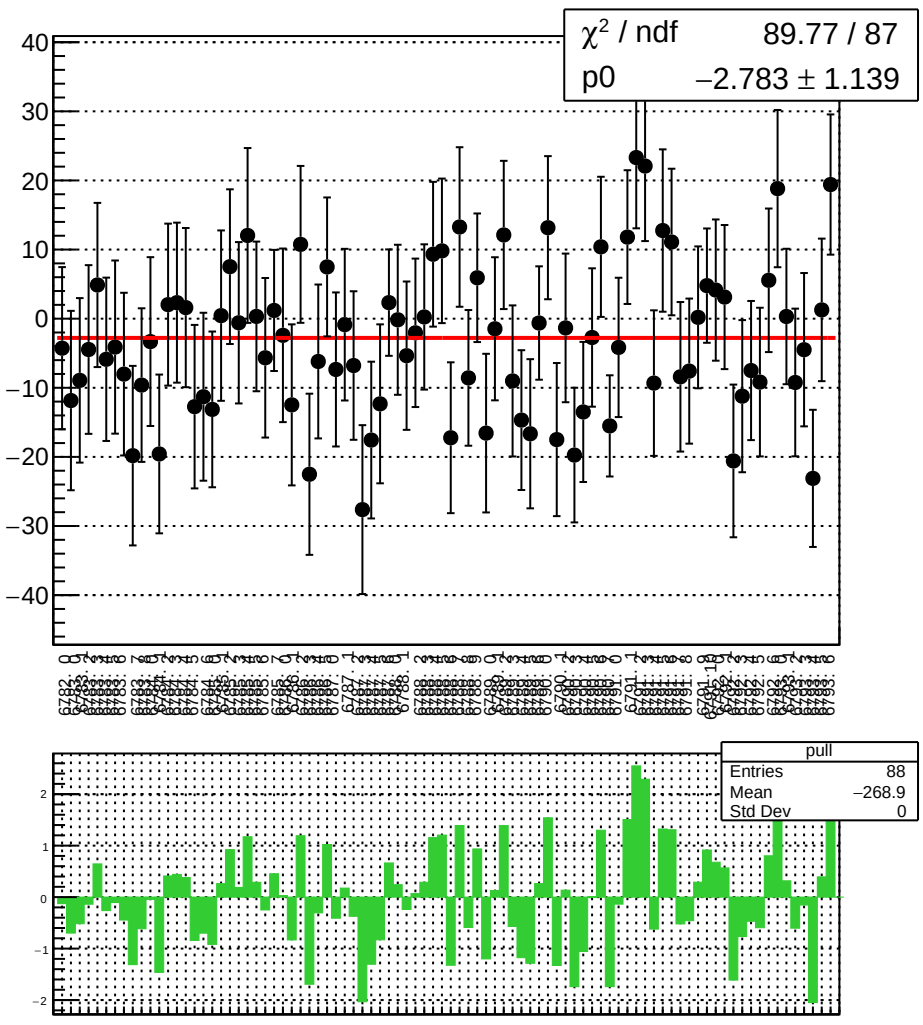

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.19 / 87
p0 −208.3 ± 3.038
pull
Entries 88
Mean 559.5
Std Dev 0
pull1D
Entries 88
Mean −0.00234
Std Dev 0.4419

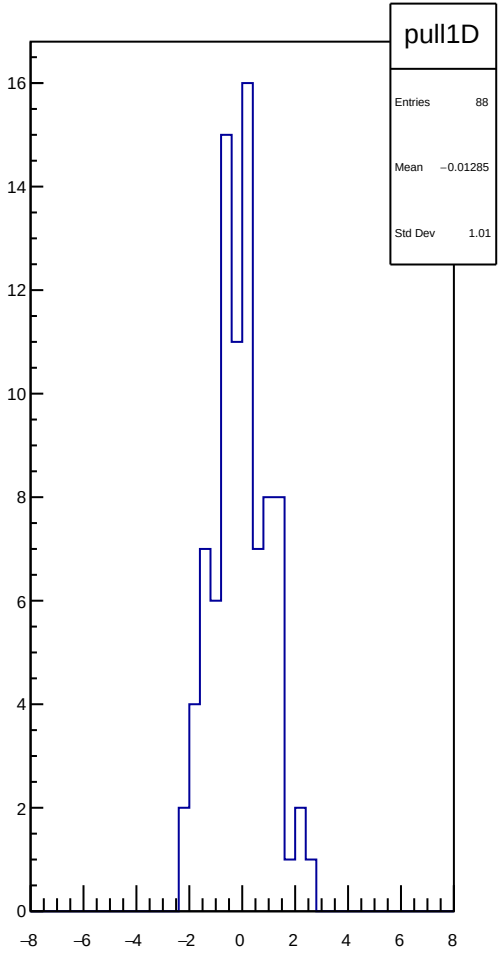

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.77 / 87
p0 −20.09 ± 2.054
pull
Entries 88
Mean −179
Std Dev 0
pull1D
Entries 88
Mean 0.003136
Std Dev 0.3656

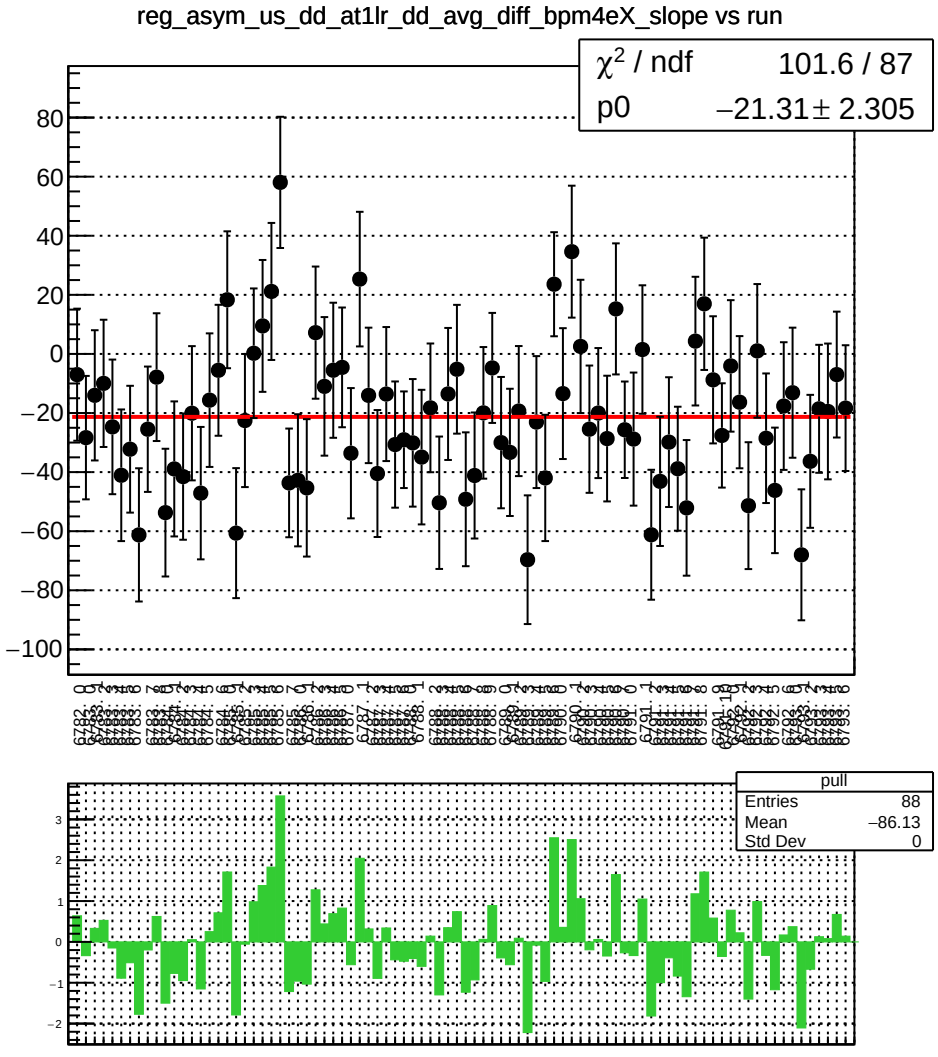

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 31.42 / 87
p0 101.6 ± 0.1351
pull
Entries 88
Mean −186.6
Std Dev 0
pull1D
Entries 88
Mean 0.006892
Std Dev 0.5975

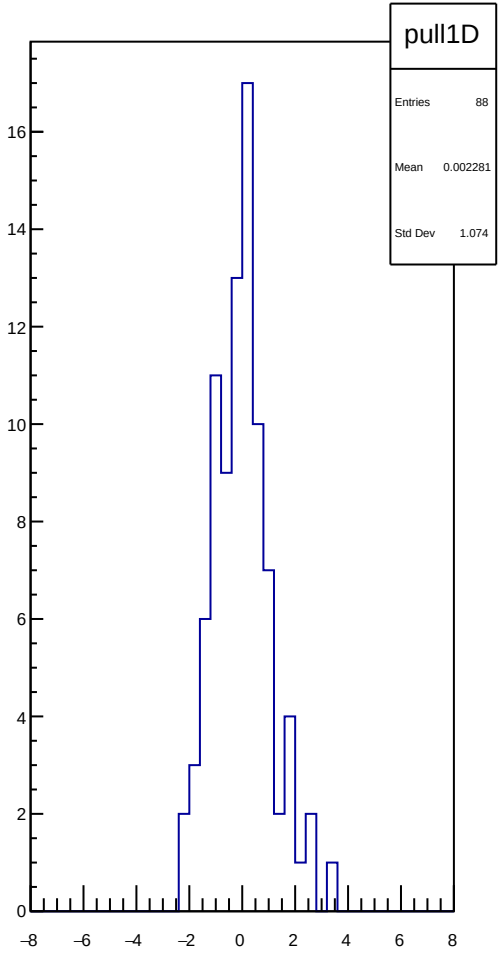

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 100.3 / 87
p0 9.501 ± 2.471
100
50
0
−50
−100
pull
Entries 88
Mean −233.1
Std Dev 0
2
1
0
−1
−2
−3

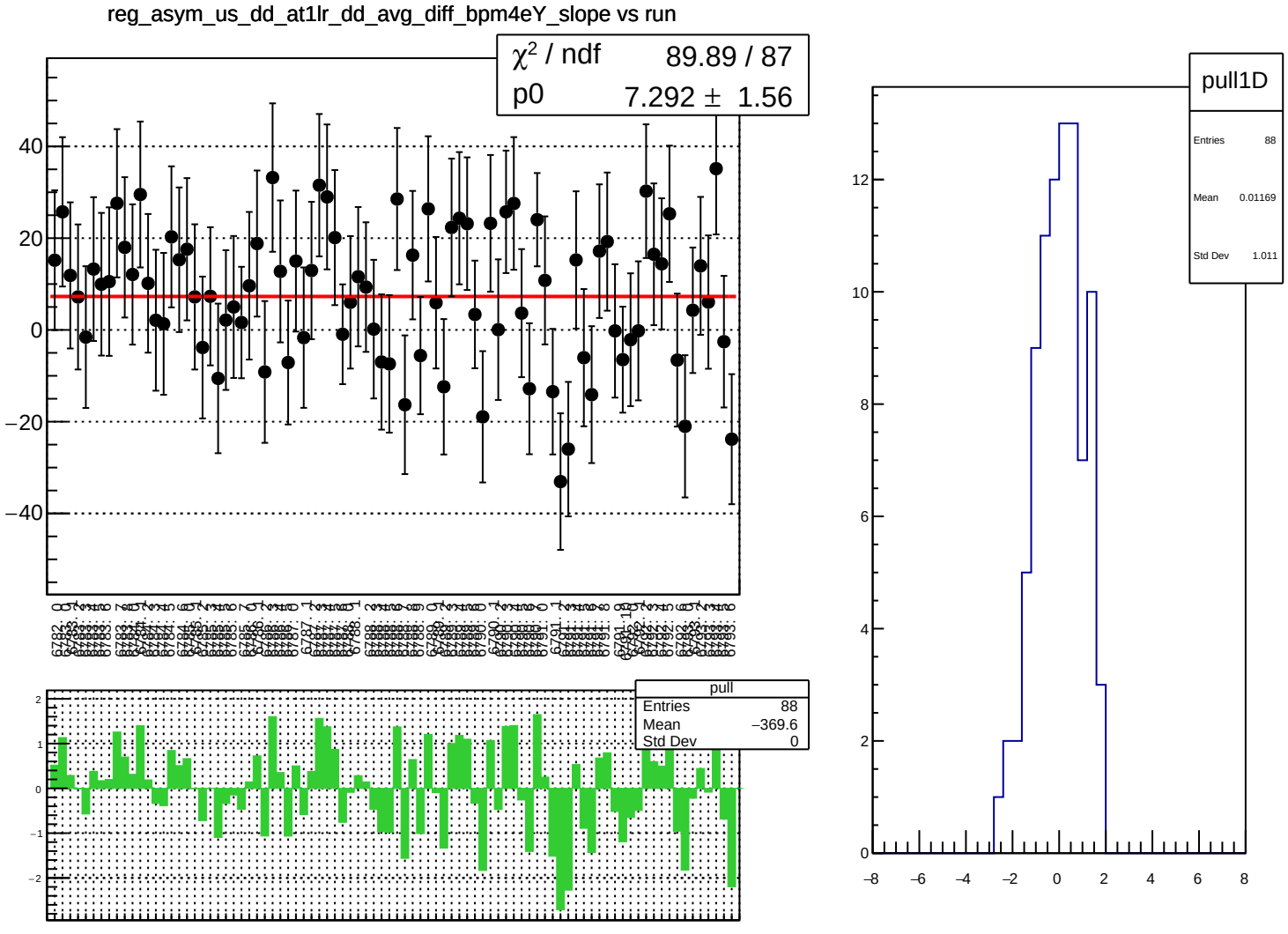

pull1D
Entries 88
Mean −0.001889
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

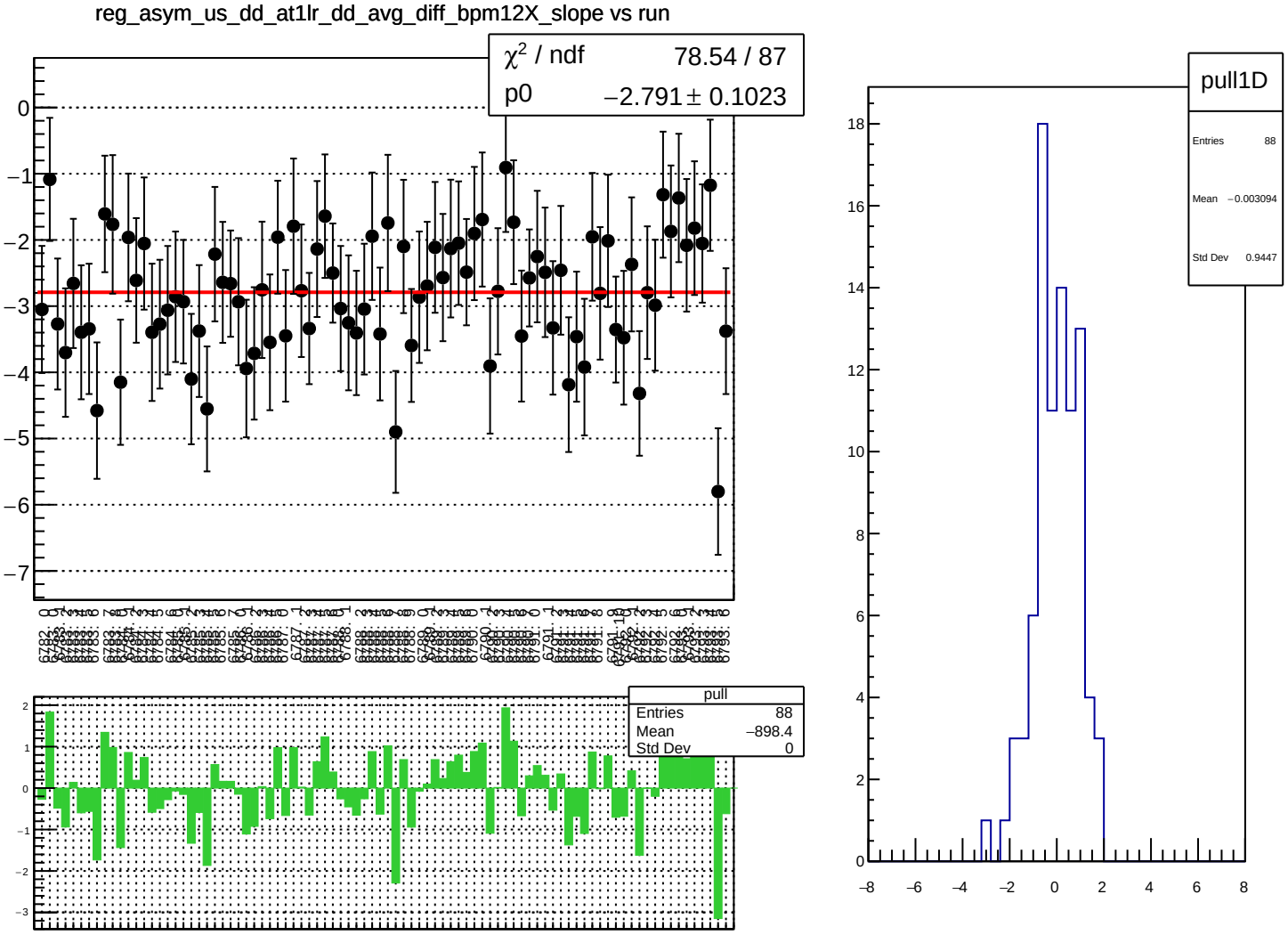

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.77 / 87
p0 −2.783 ± 1.139
pull
Entries 88
Mean −268.9
Std Dev 0

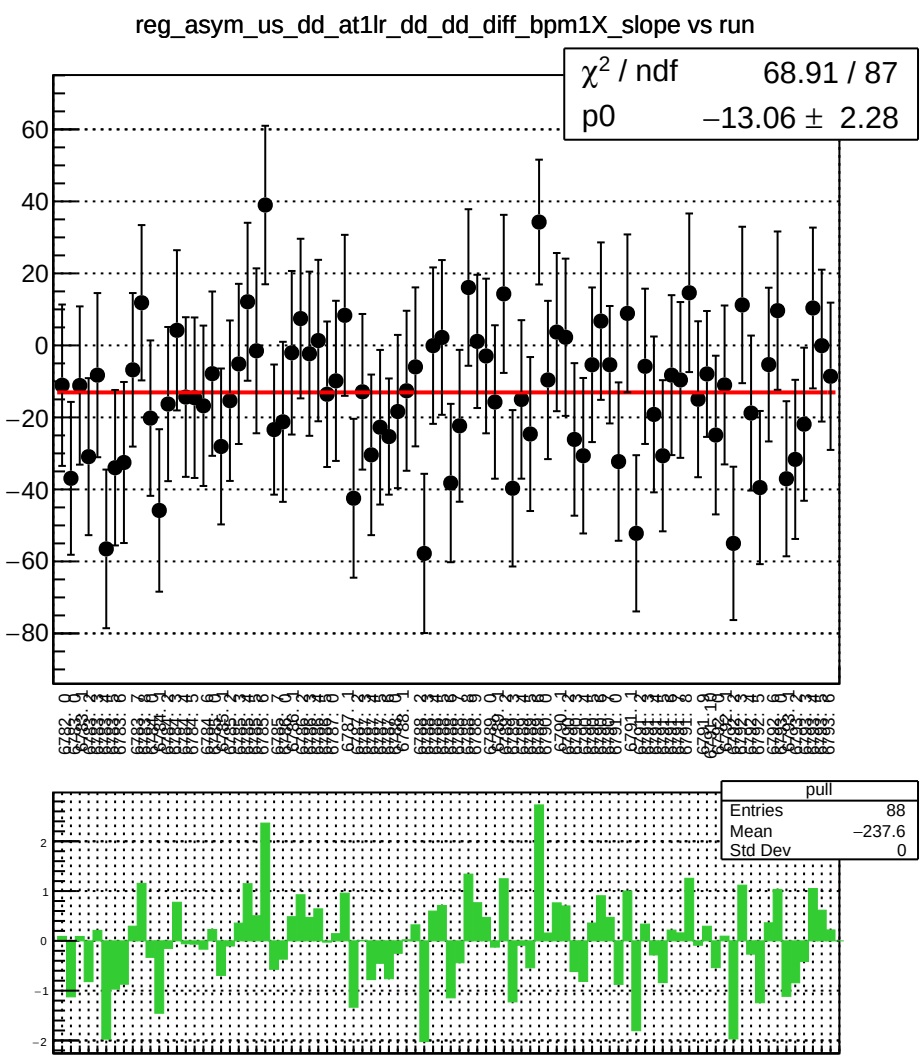

pull1D
Entries 88
Mean −0.01285
Std Dev 1.01

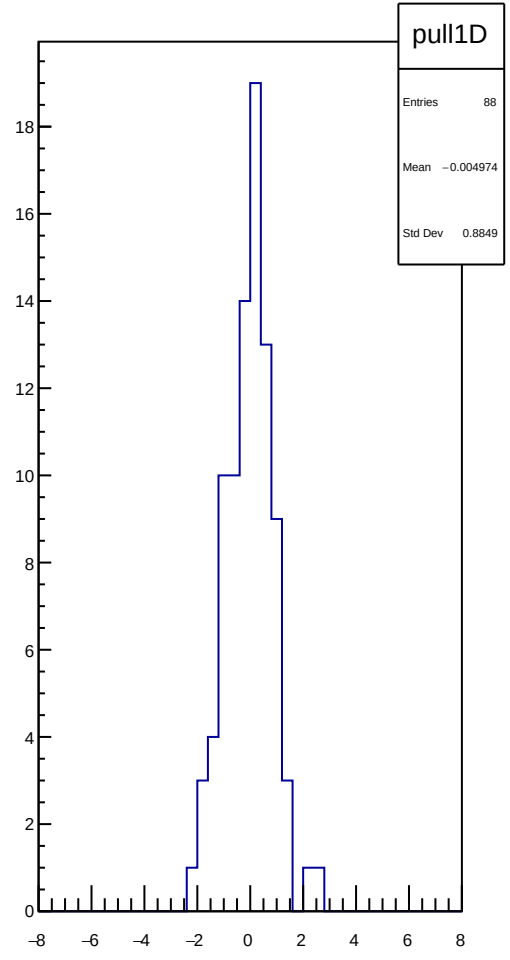

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.6 / 87
p0 −21.31 ± 2.305
pull
Entries 88
Mean −86.13
Std Dev 0

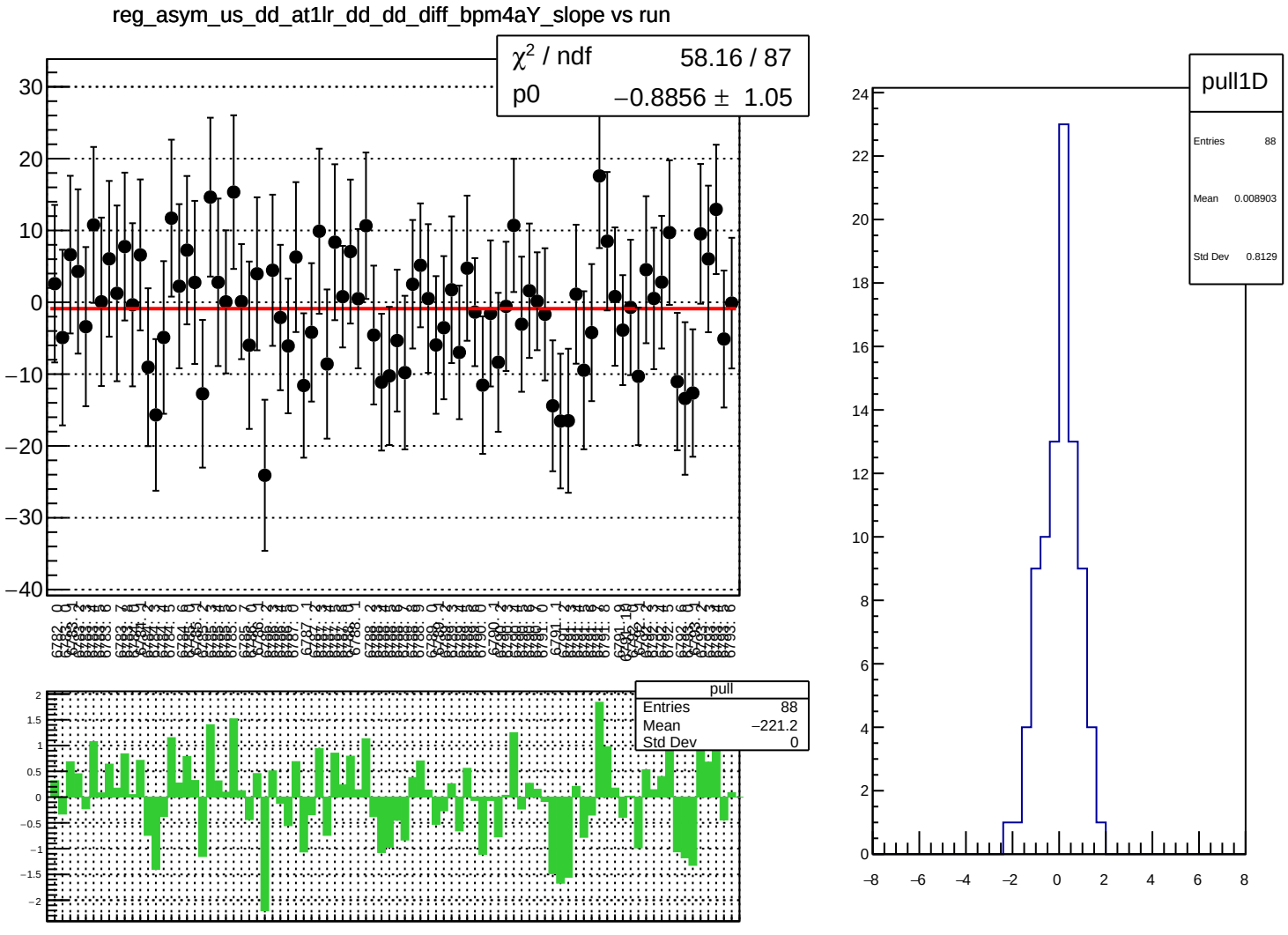

pull1D
Entries 88
Mean 0.002281
Std Dev 1.074

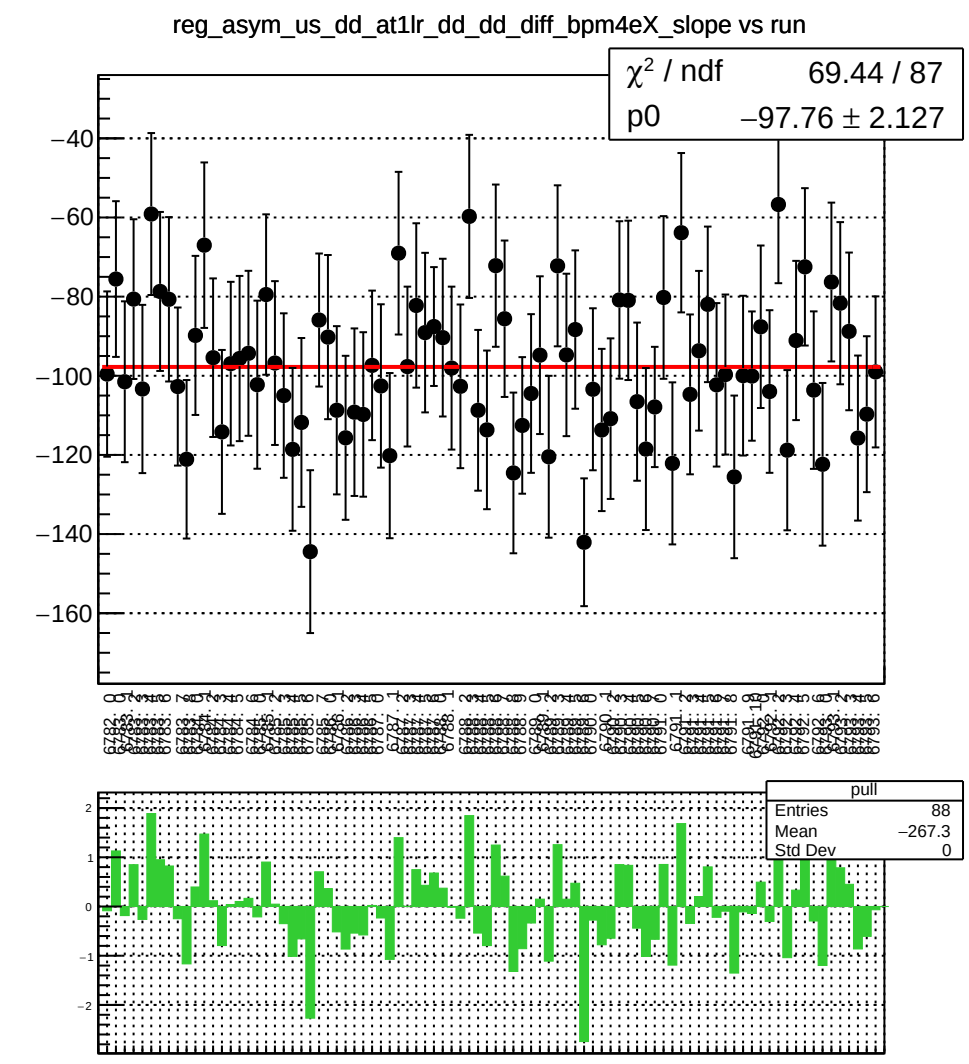

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.89 / 87
p0 7.292 ± 1.56
pull
Entries 88
Mean −369.6
Std Dev 0
pull1D
Entries 88
Mean 0.01169
Std Dev 1.011

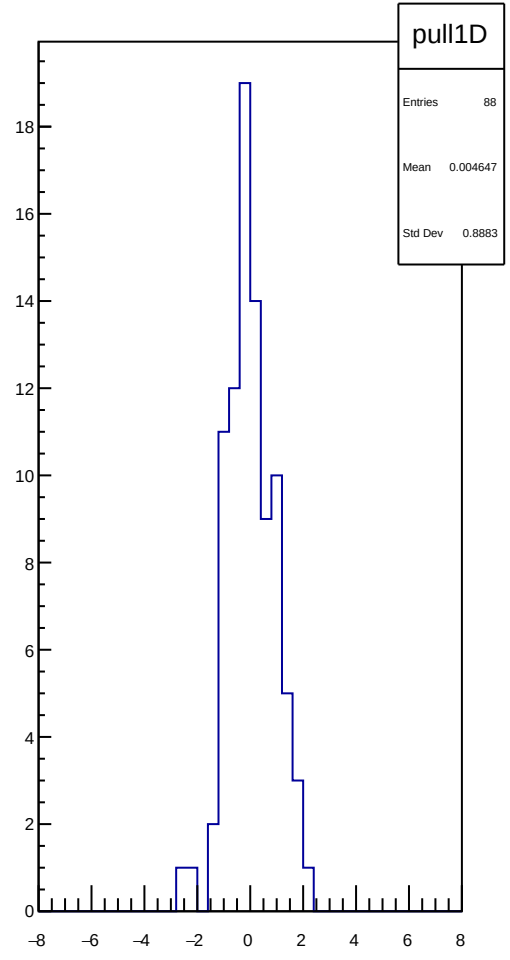

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 78.54 / 87
p0 −2.791 ± 0.1023
pull
Entries 88
Mean −898.4
Std Dev 0
pull1D
Entries 88
Mean −0.003094
Std Dev 0.9447

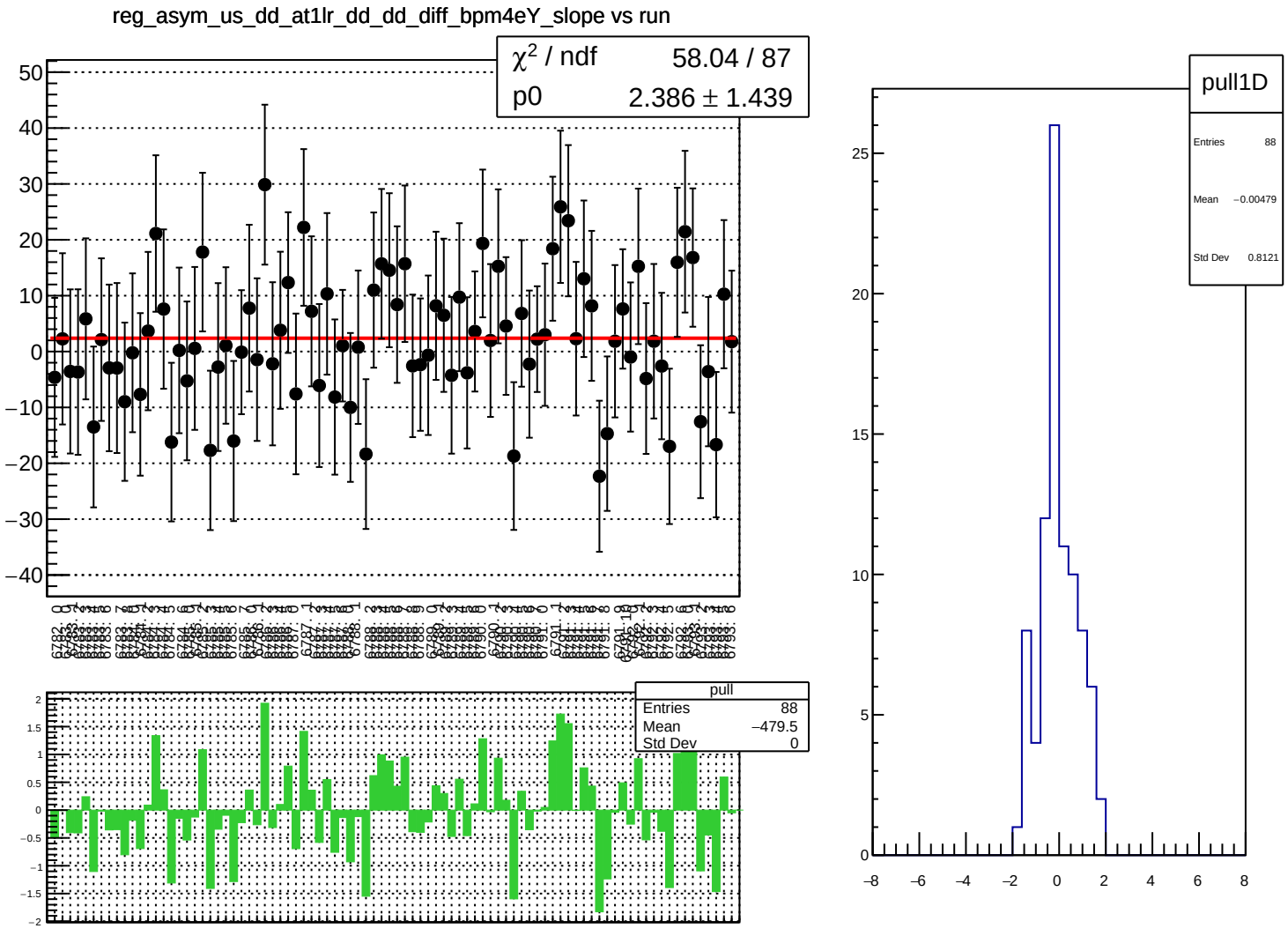

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 68.91 / 87
p0 −13.06 ± 2.28
pull
Entries 88
Mean −237.6
Std Dev 0

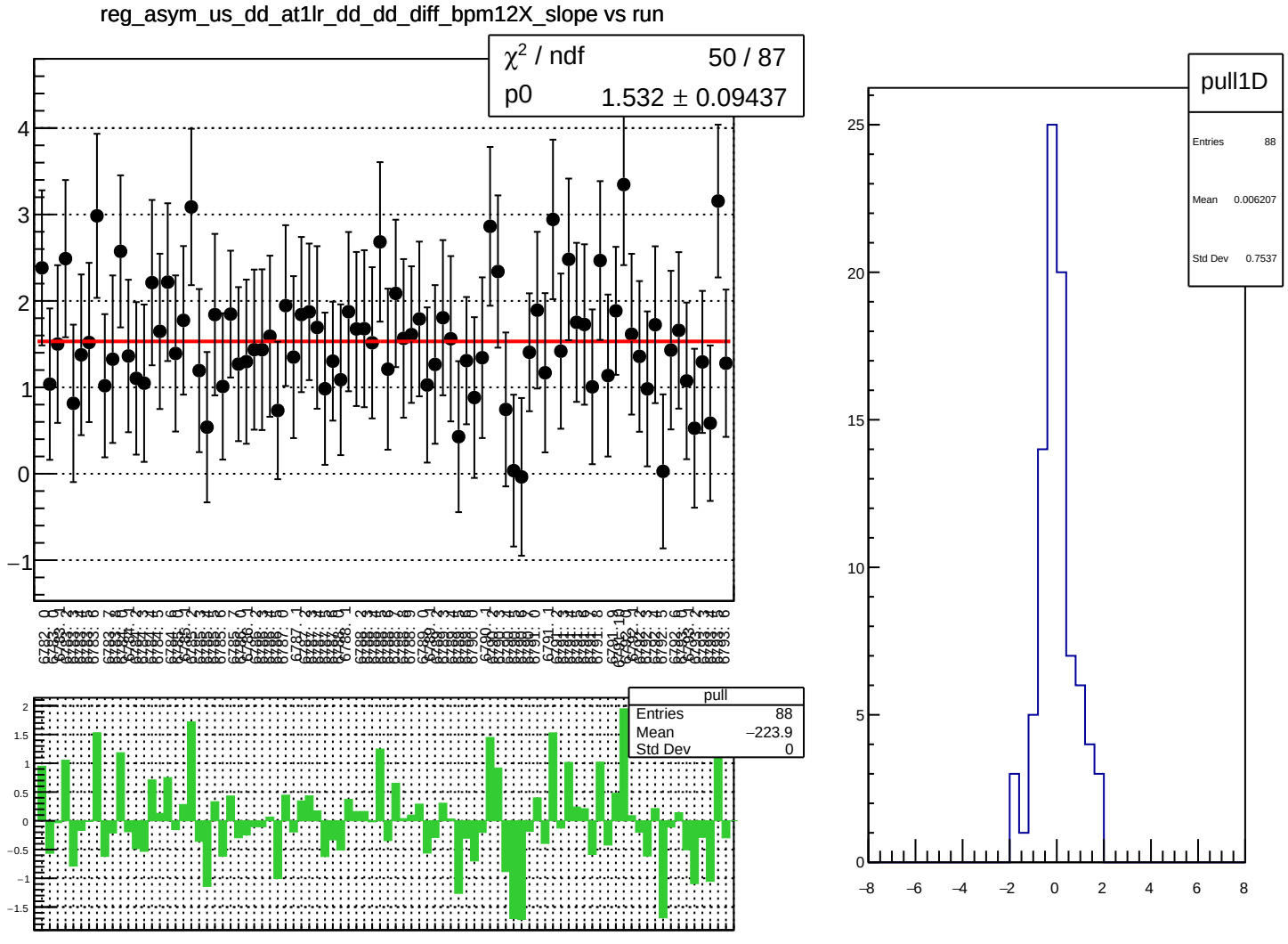

pull1D
Entries 88
Mean −0.004974
Std Dev 0.8849

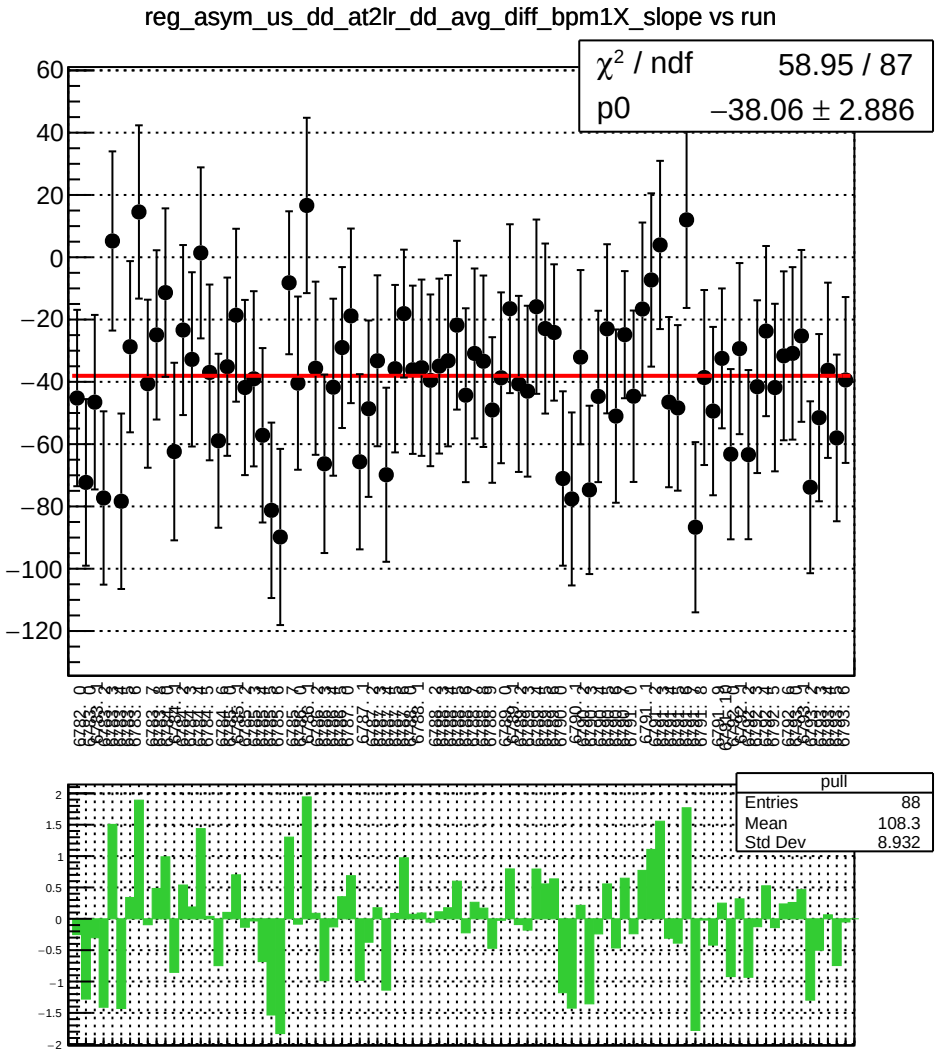

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.16 / 87
p0 −0.8856 ± 1.05
pull
Entries 88
Mean −221.2
Std Dev 0
pull1D
Entries 88
Mean 0.008903
Std Dev 0.8129

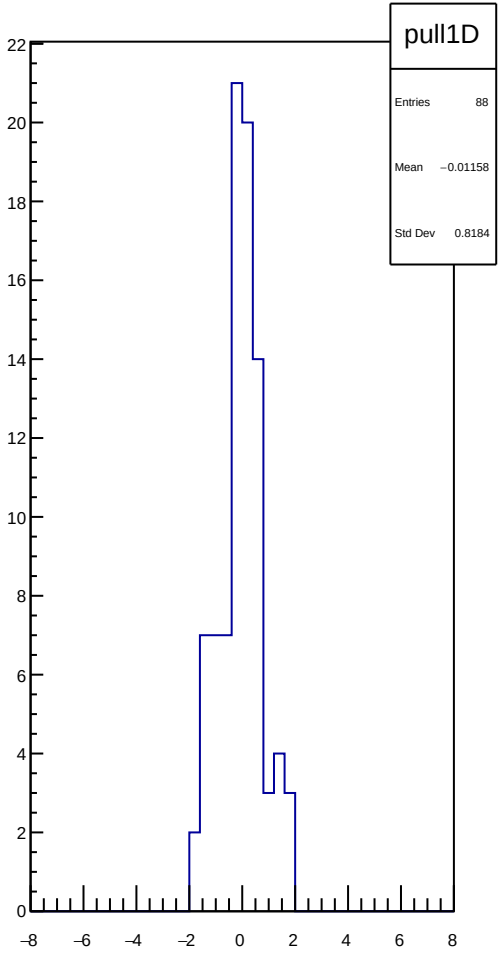

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.44 / 87
p0 −97.76 ± 2.127
pull
Entries 88
Mean −267.3
Std Dev 0

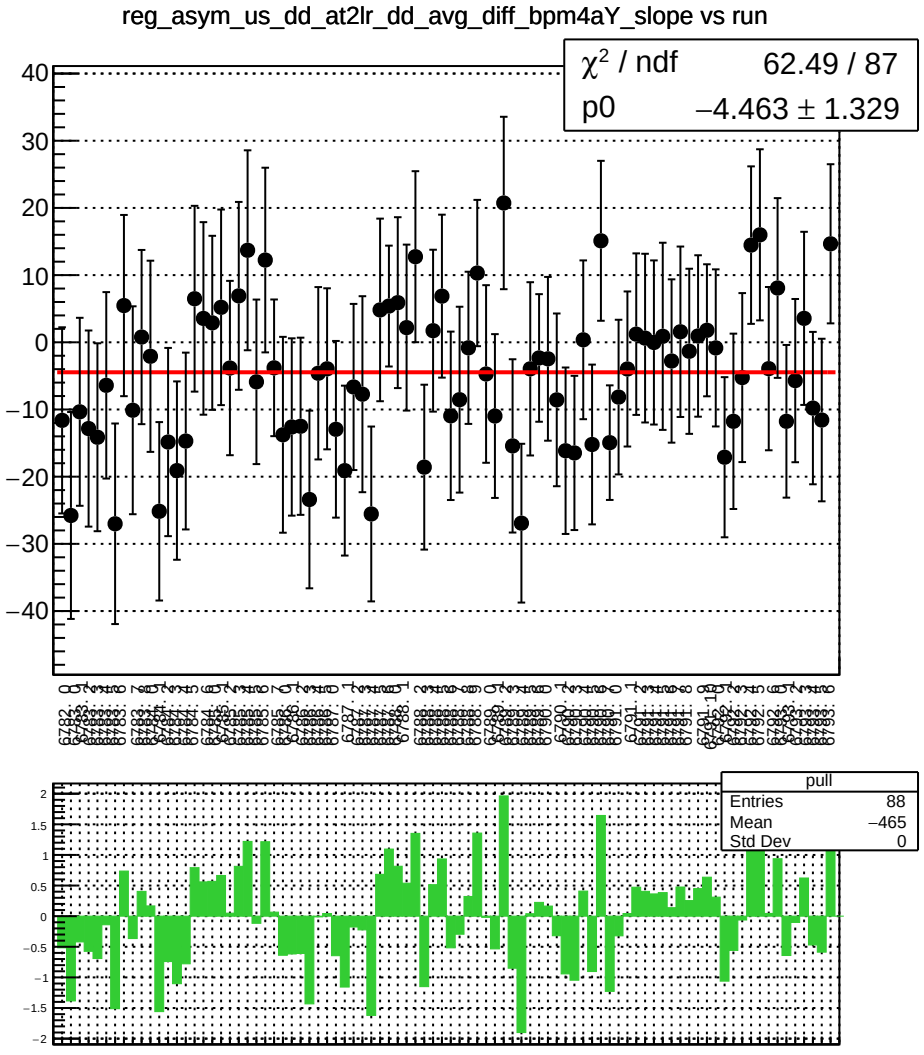

pull1D
Entries 88
Mean 0.004647
Std Dev 0.8883

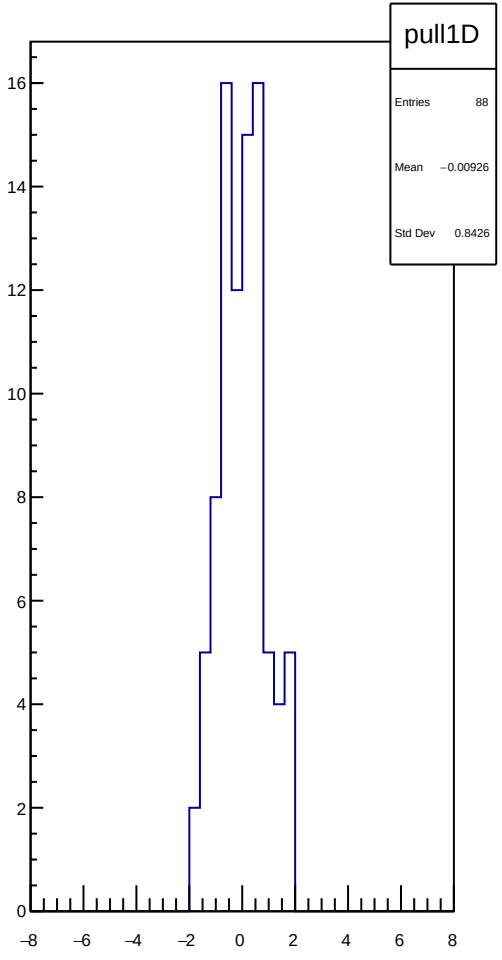

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.04 / 87
p0 2.386 ± 1.439
pull
Entries 88
Mean −479.5
Std Dev 0
pull1D
Entries 88
Mean −0.00479
Std Dev 0.8121

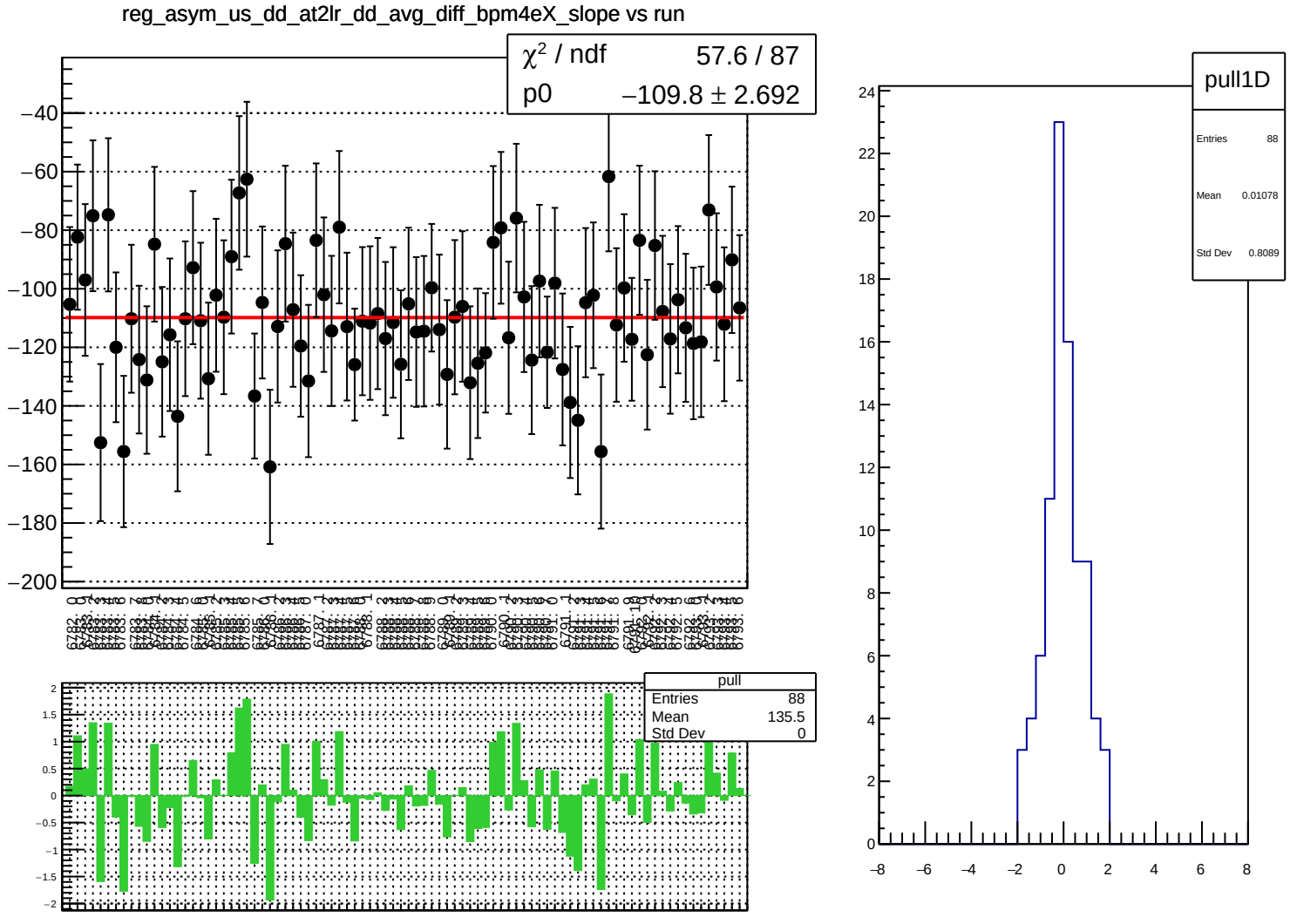

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 50 / 87
p0 1.532 ± 0.09437
pull
Entries 88
Mean −223.9
Std Dev 0
pull1D
Entries 88
Mean 0.006207
Std Dev 0.7537

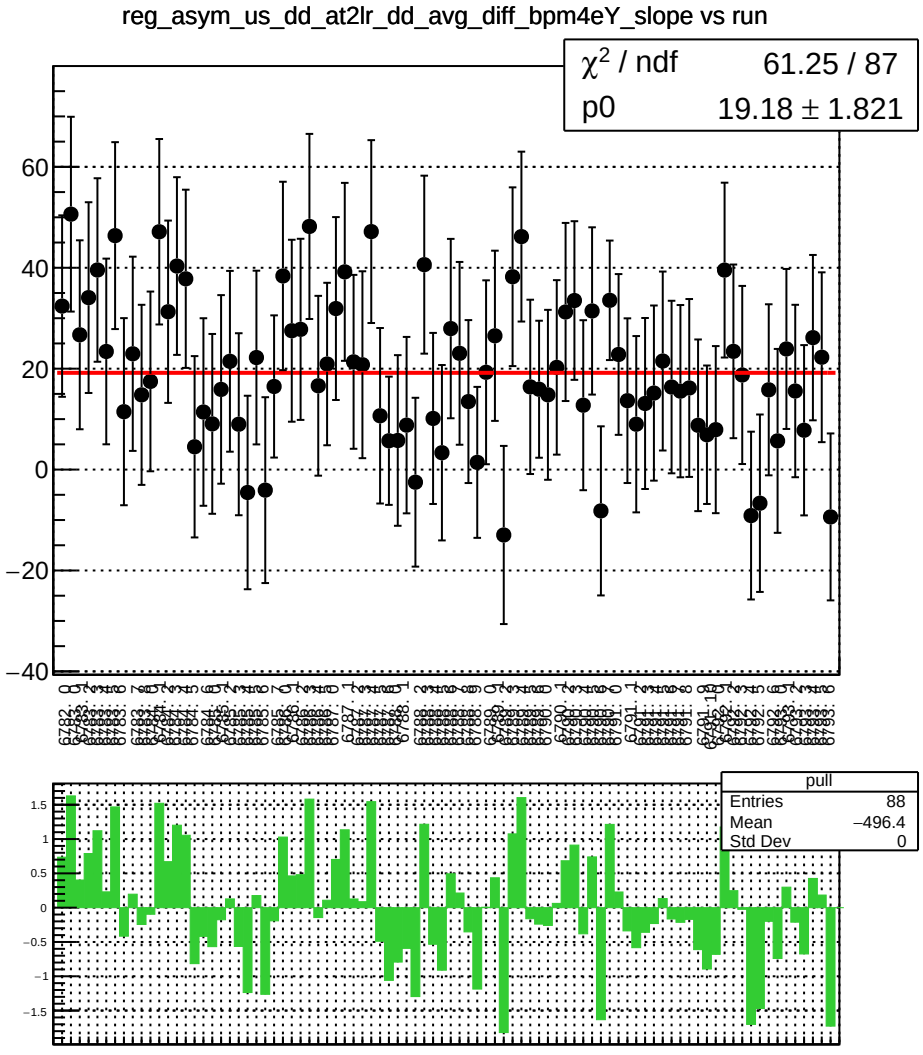

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 58.95 / 87
p0 −38.06 ± 2.886
pull
Entries 88
Mean 108.3
Std Dev 8.932

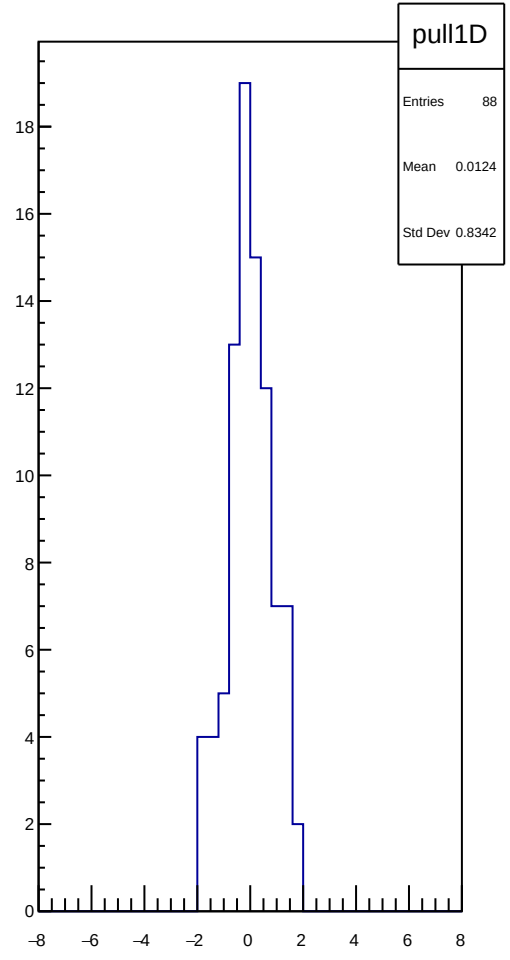

pull1D
Entries 88
Mean −0.01158
Std Dev 0.8184

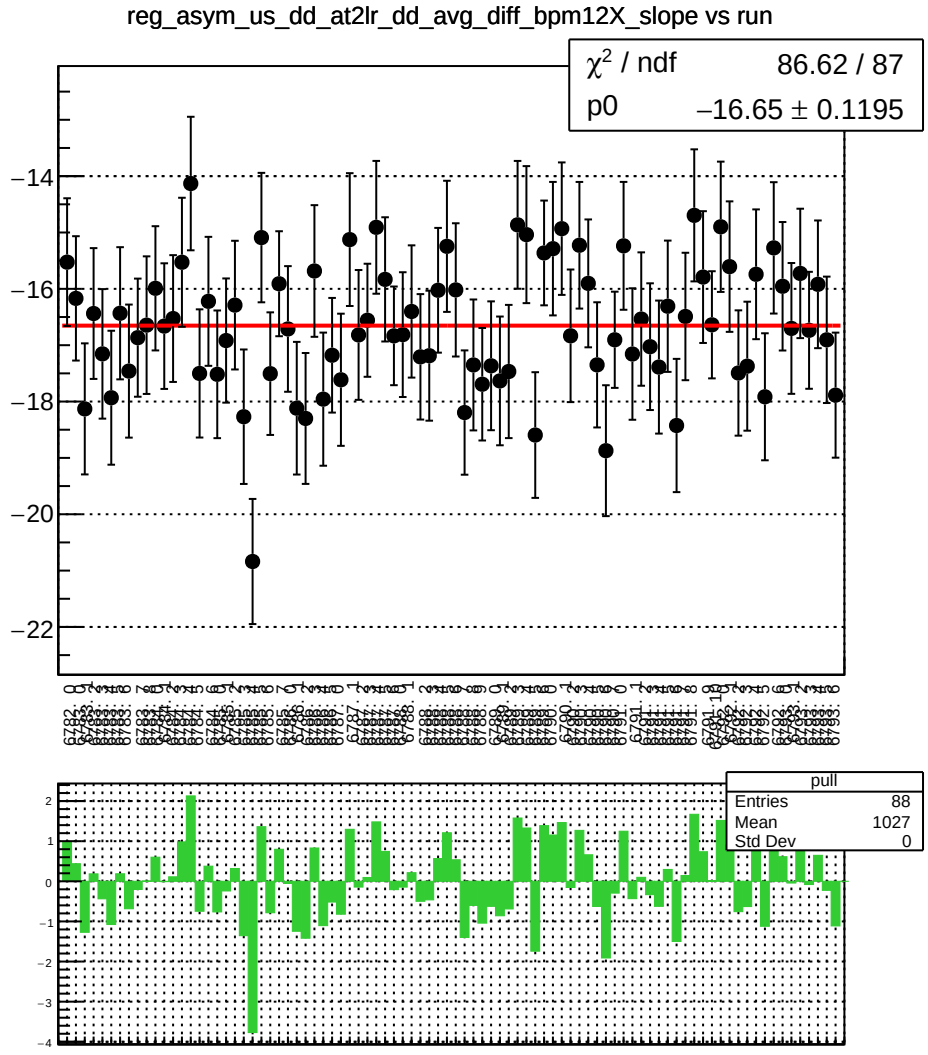

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.49 / 87
p0 −4.463 ± 1.329
pull
Entries 88
Mean −465
Std Dev 0

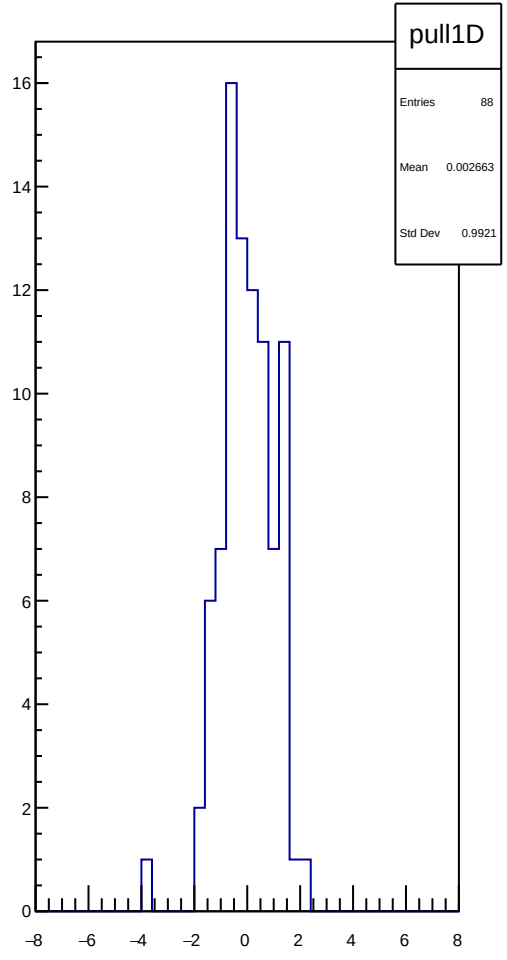

pull1D
Entries 88
Mean −0.00926
Std Dev 0.8426

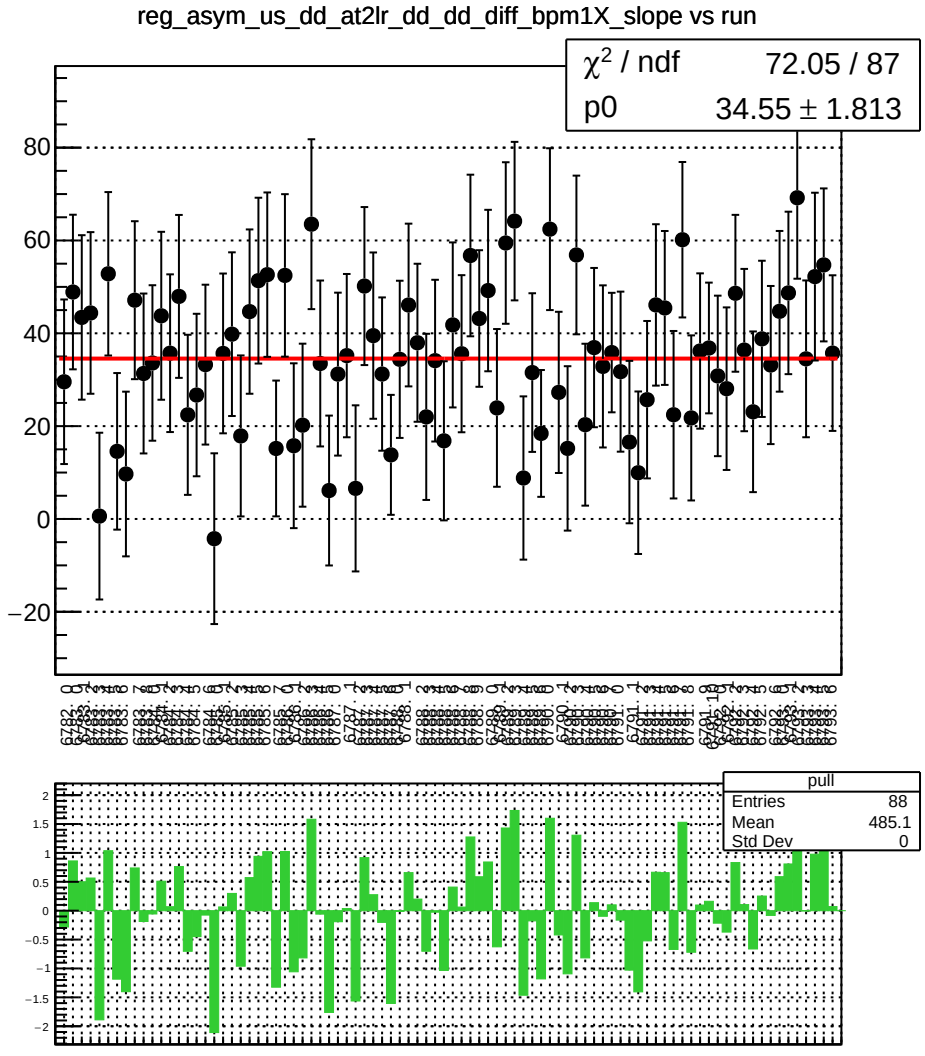

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.6 / 87
p0 −109.8 ± 2.692
pull
Entries 88
Mean 135.5
Std Dev 0
pull1D
Entries 88
Mean 0.01078
Std Dev 0.8089

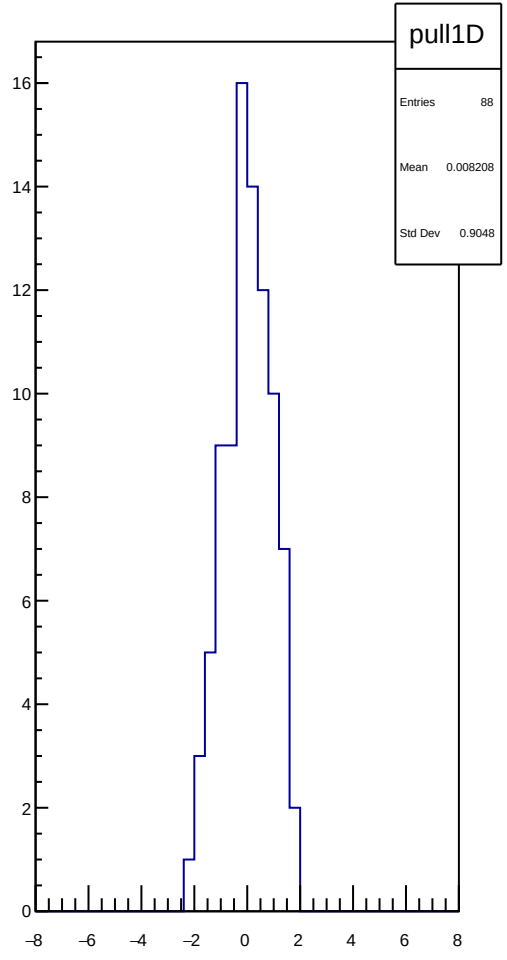

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.25 / 87
p0 19.18 ± 1.821
pull
Entries 88
Mean −496.4
Std Dev 0

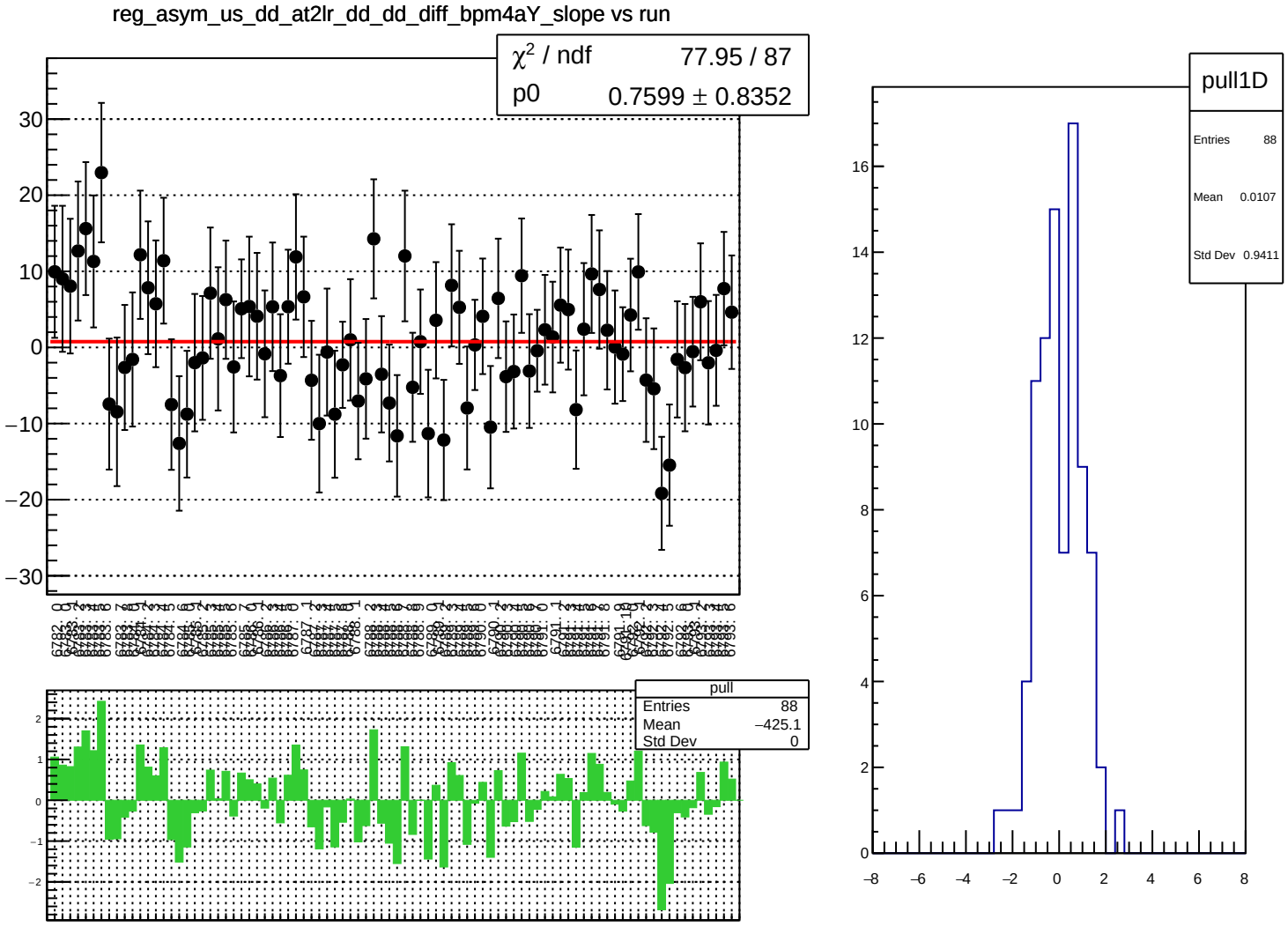

pull1D
Entries 88
Mean 0.0124
Std Dev 0.8342

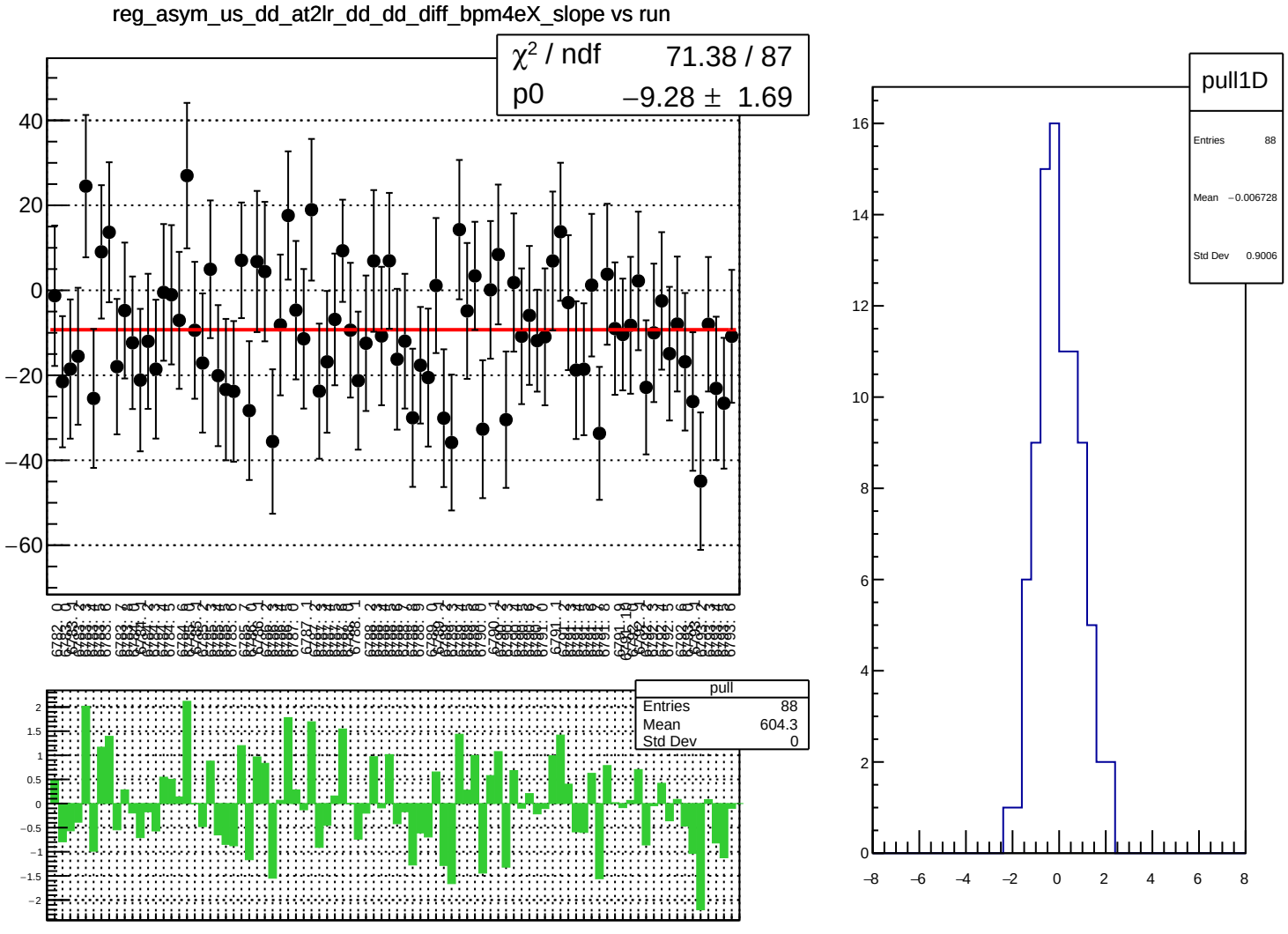

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 86.62 / 87
p0 −16.65 ± 0.1195
pull
Entries 88
Mean 1027
Std Dev 0

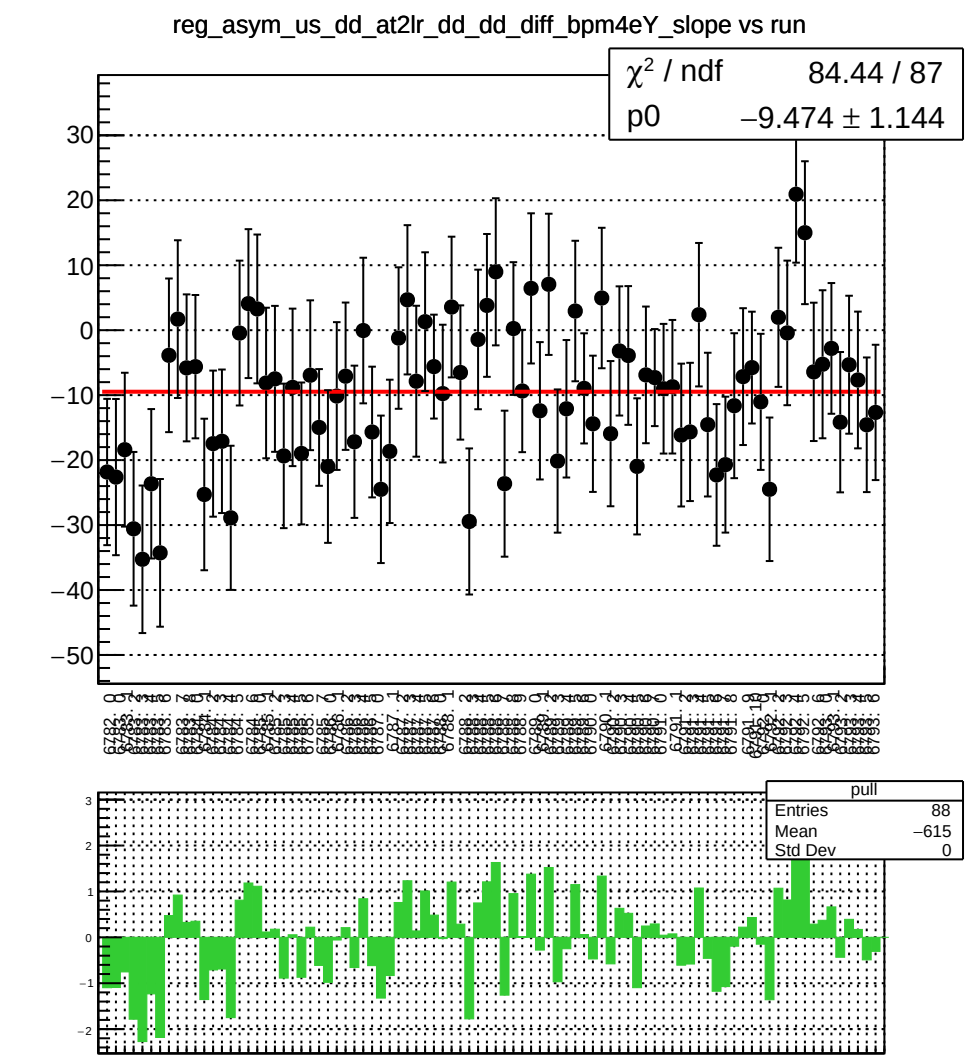

pull1D
Entries 88
Mean 0.002663
Std Dev 0.9921

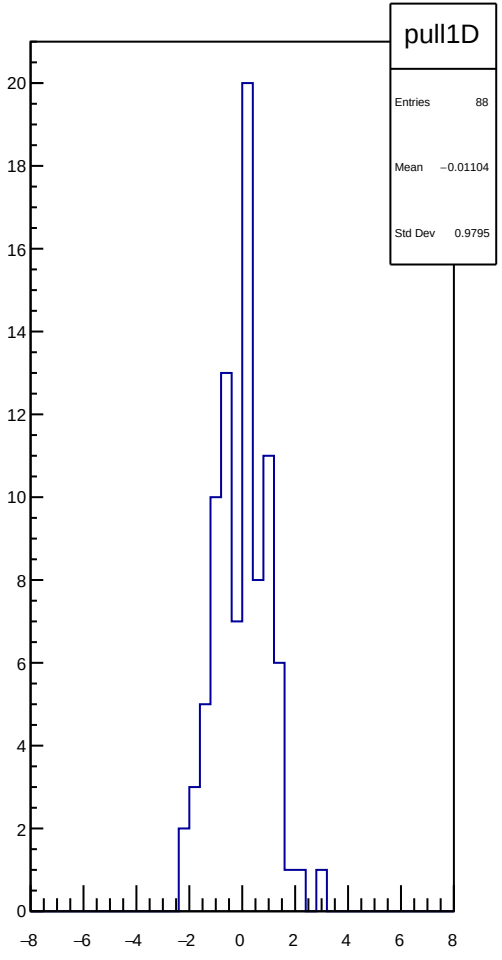

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 72.05 / 87
p0 34.55 ± 1.813
pull
Entries 88
Mean 485.1
Std Dev 0

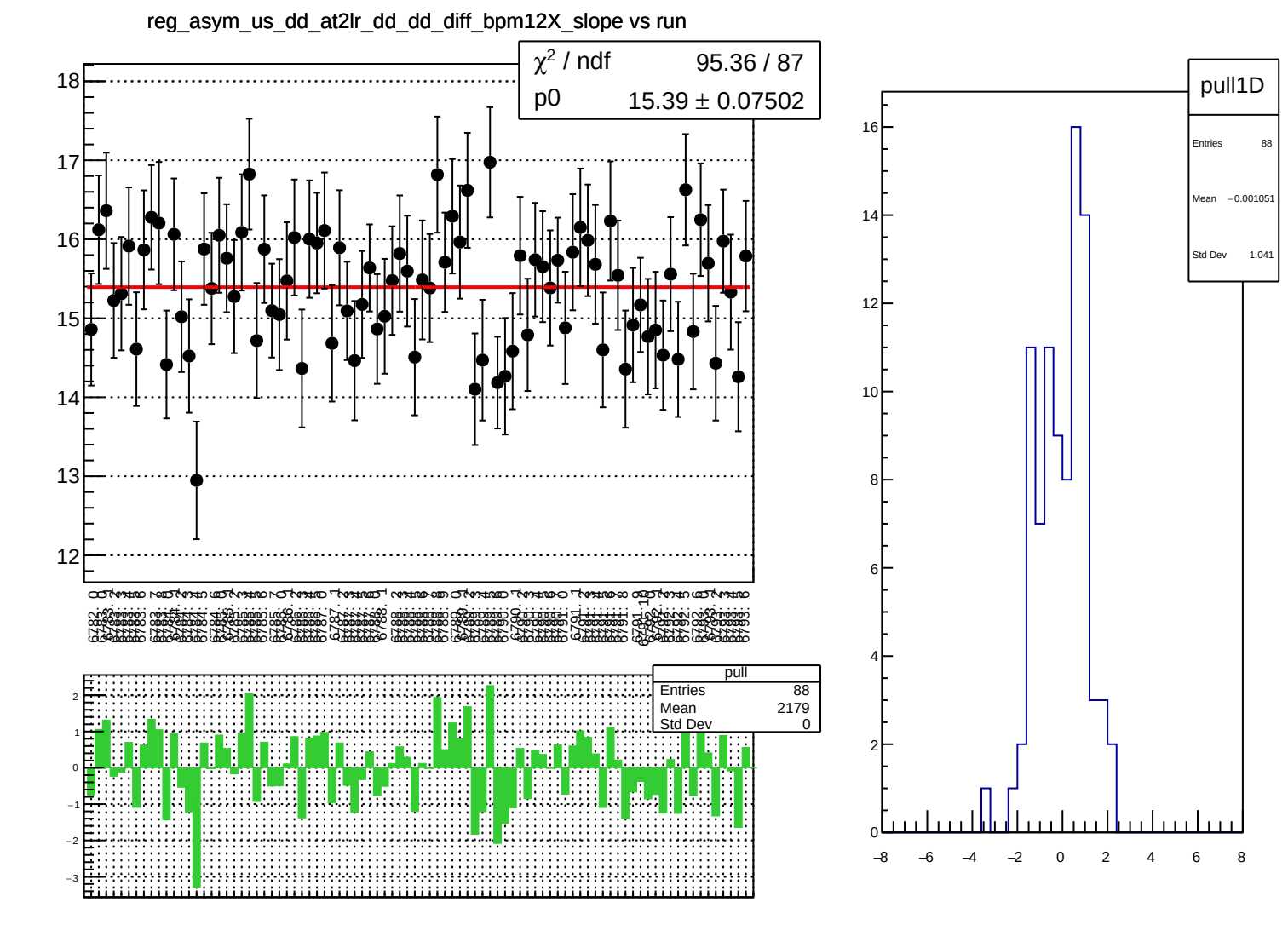

pull1D
Entries 88
Mean 0.008208
Std Dev 0.9048

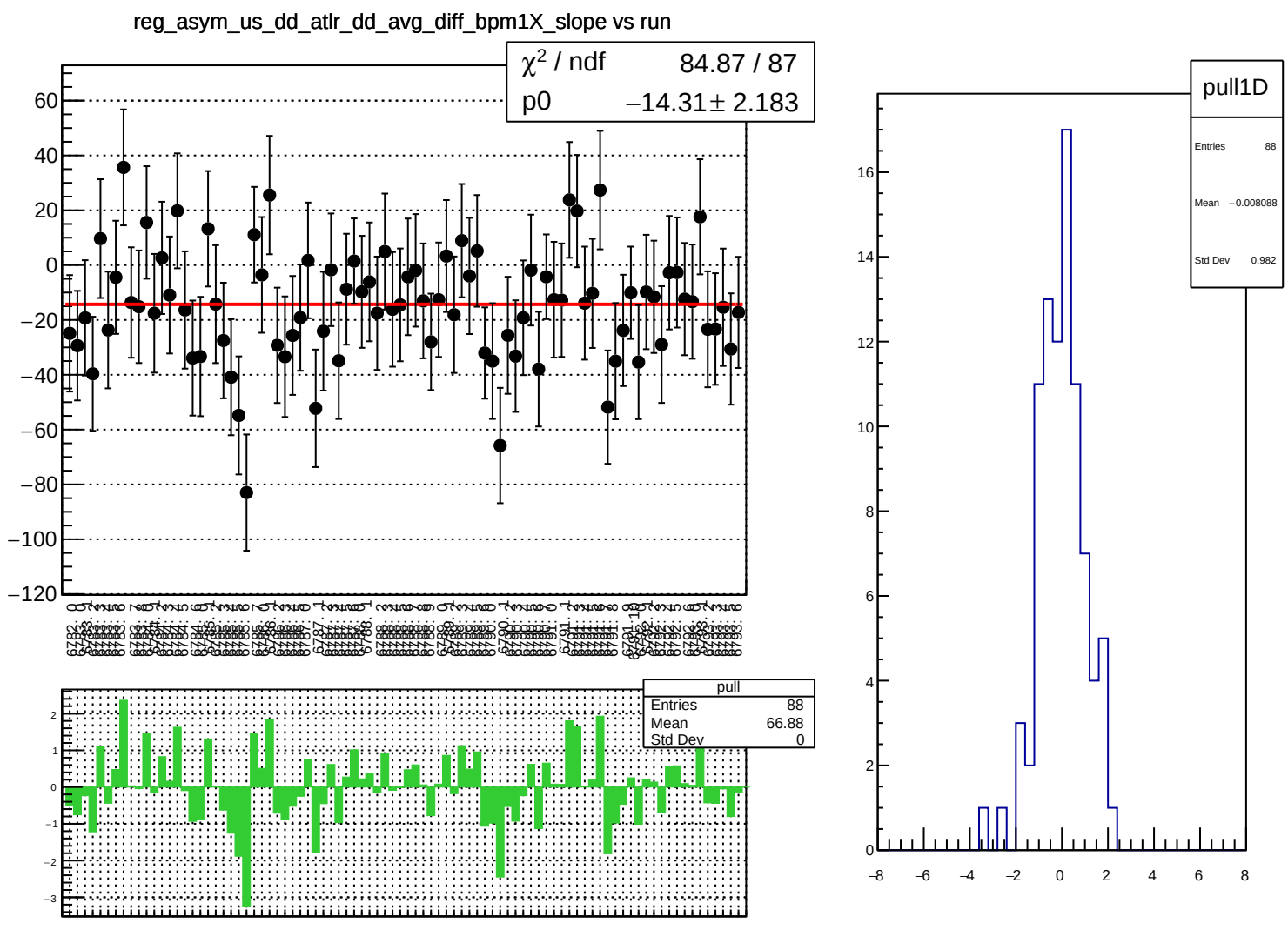

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.95 / 87
p0 0.7599 ± 0.8352
pull
Entries 88
Mean −425.1
Std Dev 0
pull1D
Entries 88
Mean 0.0107
Std Dev 0.9411

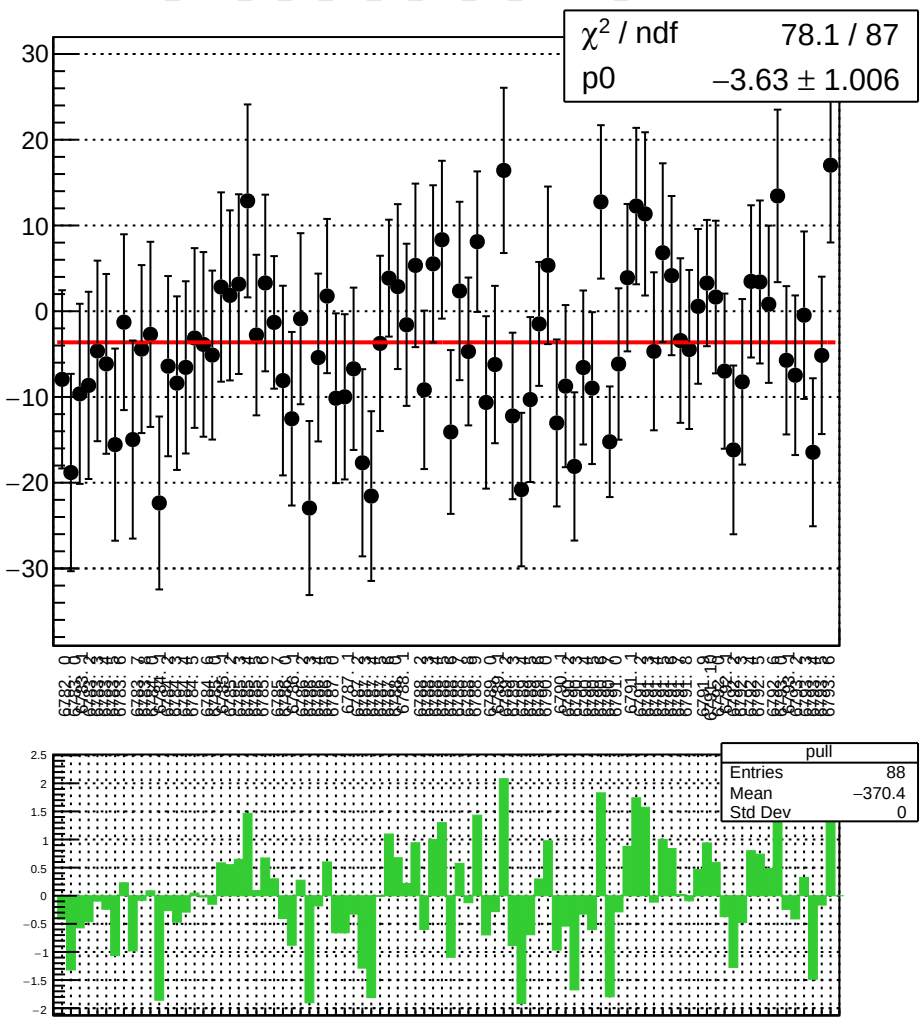

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.38 / 87
p0 −9.28 ± 1.69
pull
Entries 88
Mean 604.3
Std Dev 0
pull1D
Entries 88
Mean −0.006728
Std Dev 0.9006

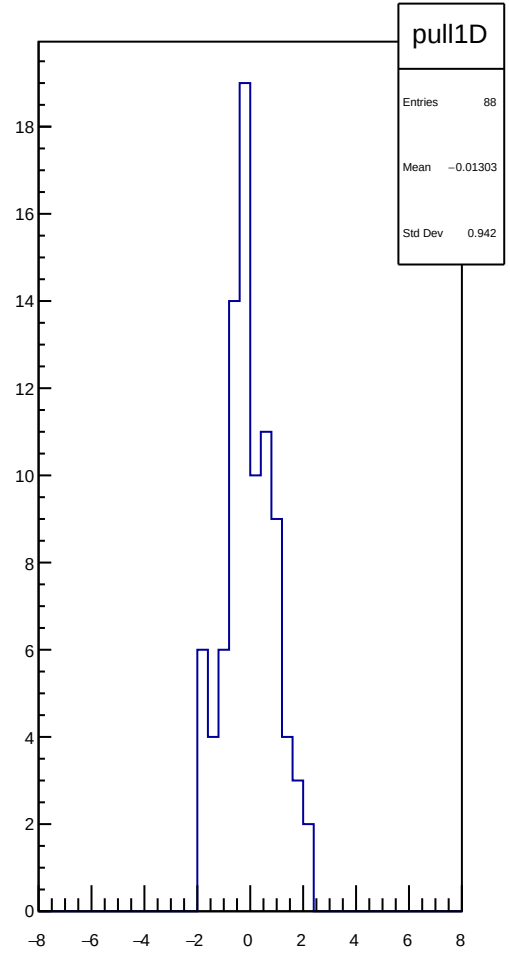

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.44 / 87
p0 −9.474 ± 1.144
pull
Entries 88
Mean −615
Std Dev 0

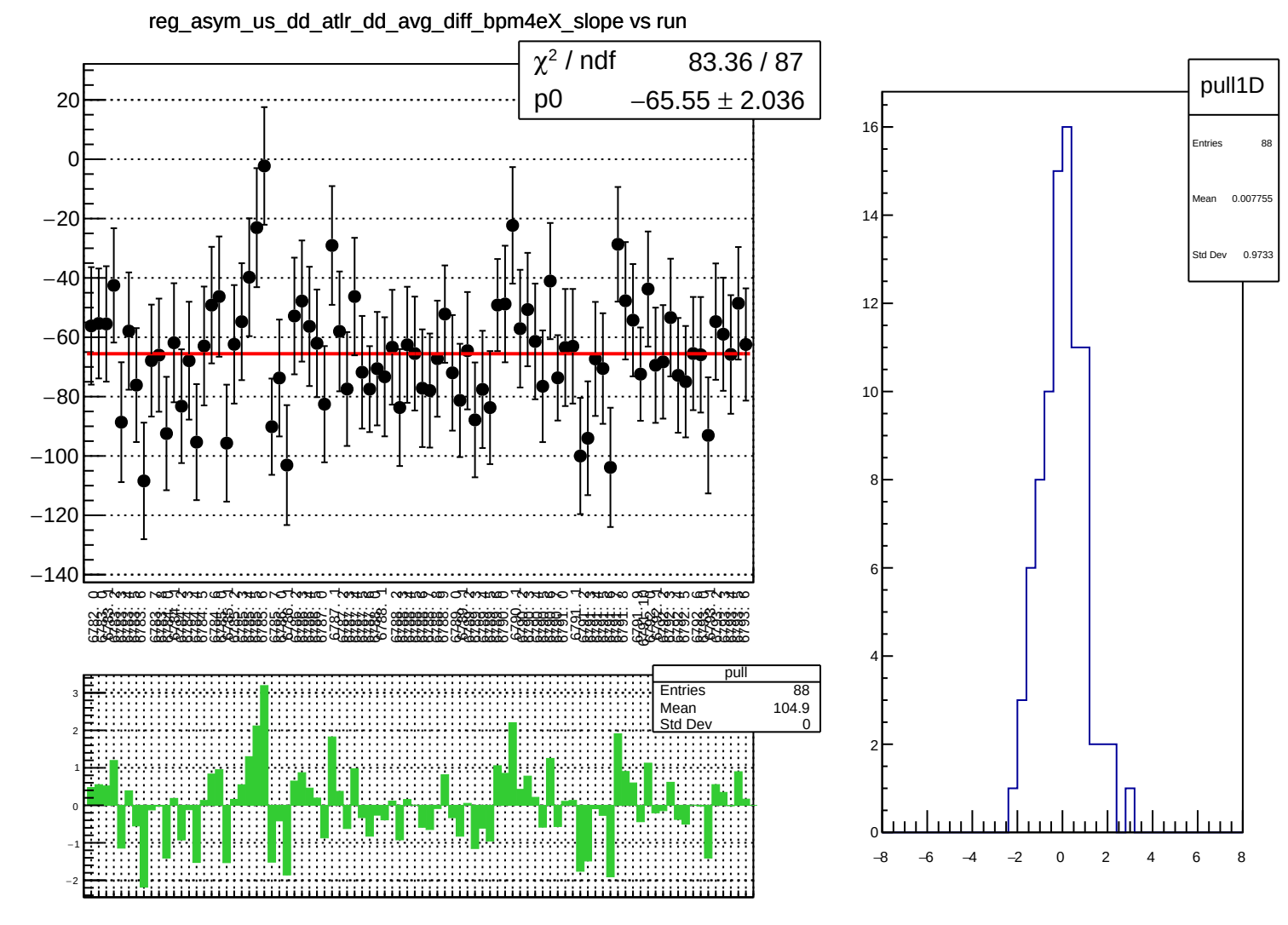

pull1D
Entries 88
Mean −0.01104
Std Dev 0.9795

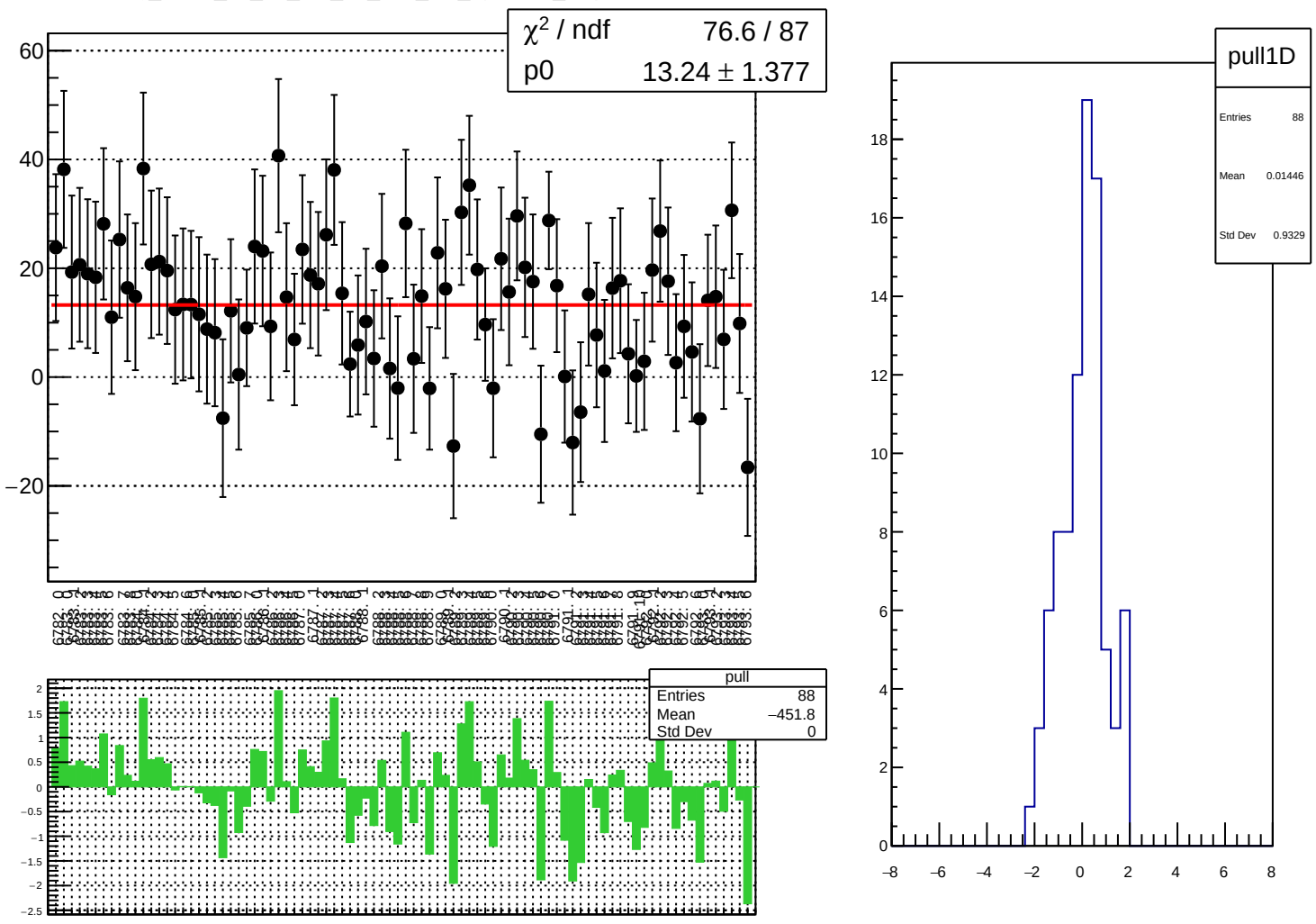

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 95.36 / 87
p0 15.39 ± 0.07502
pull
Entries 88
Mean 2179
Std Dev 0
pull1D
Entries 88
Mean −0.001051
Std Dev 1.041

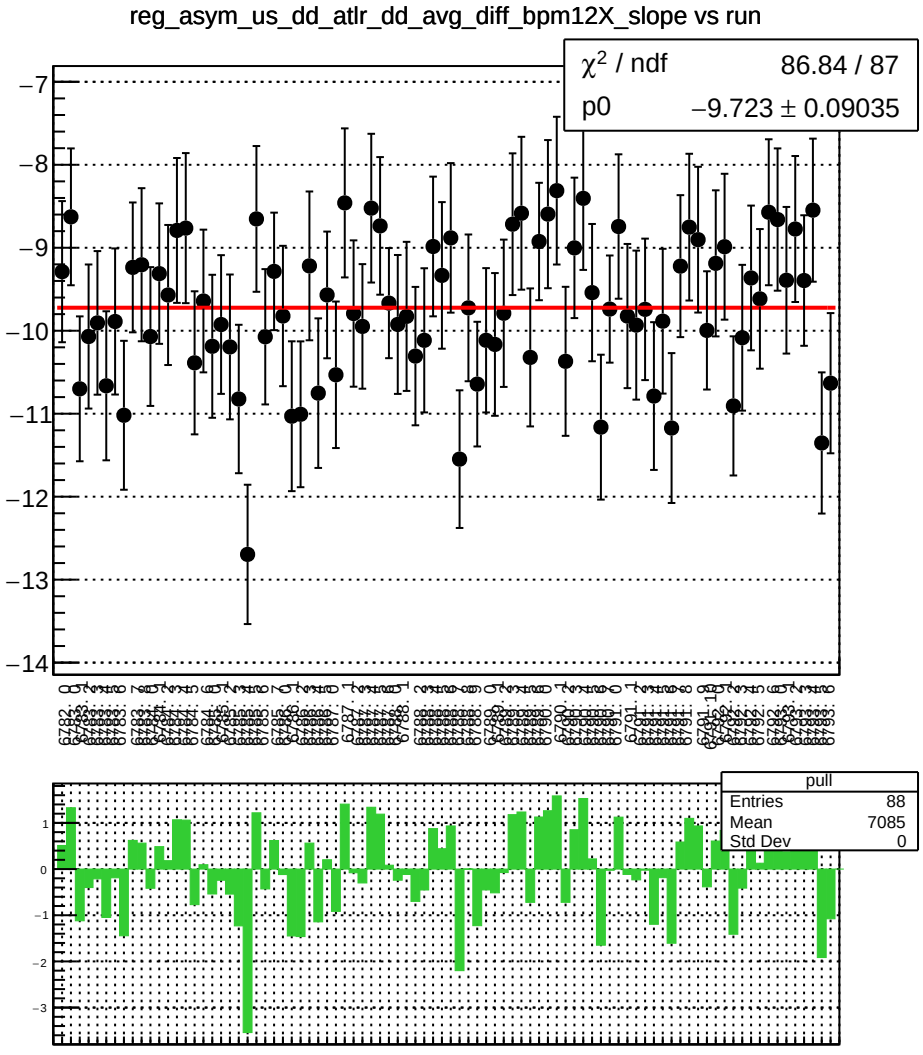

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 84.87 / 87
p0 −14.31± 2.183
pull
Entries 88
Mean 66.88
Std Dev 0
pull1D
Entries 88
Mean −0.008088
Std Dev 0.982

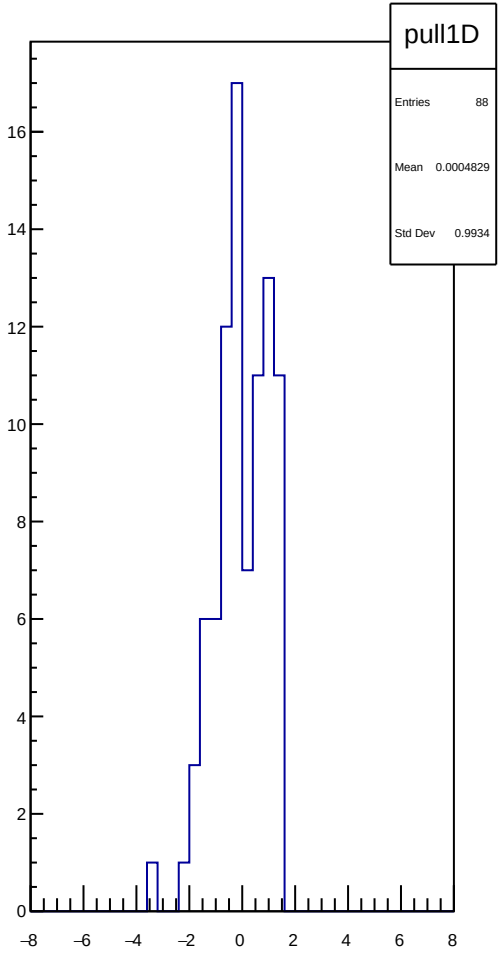

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.1 / 87
p0 −3.63 ± 1.006
pull
Entries 88
Mean −370.4
Std Dev 0

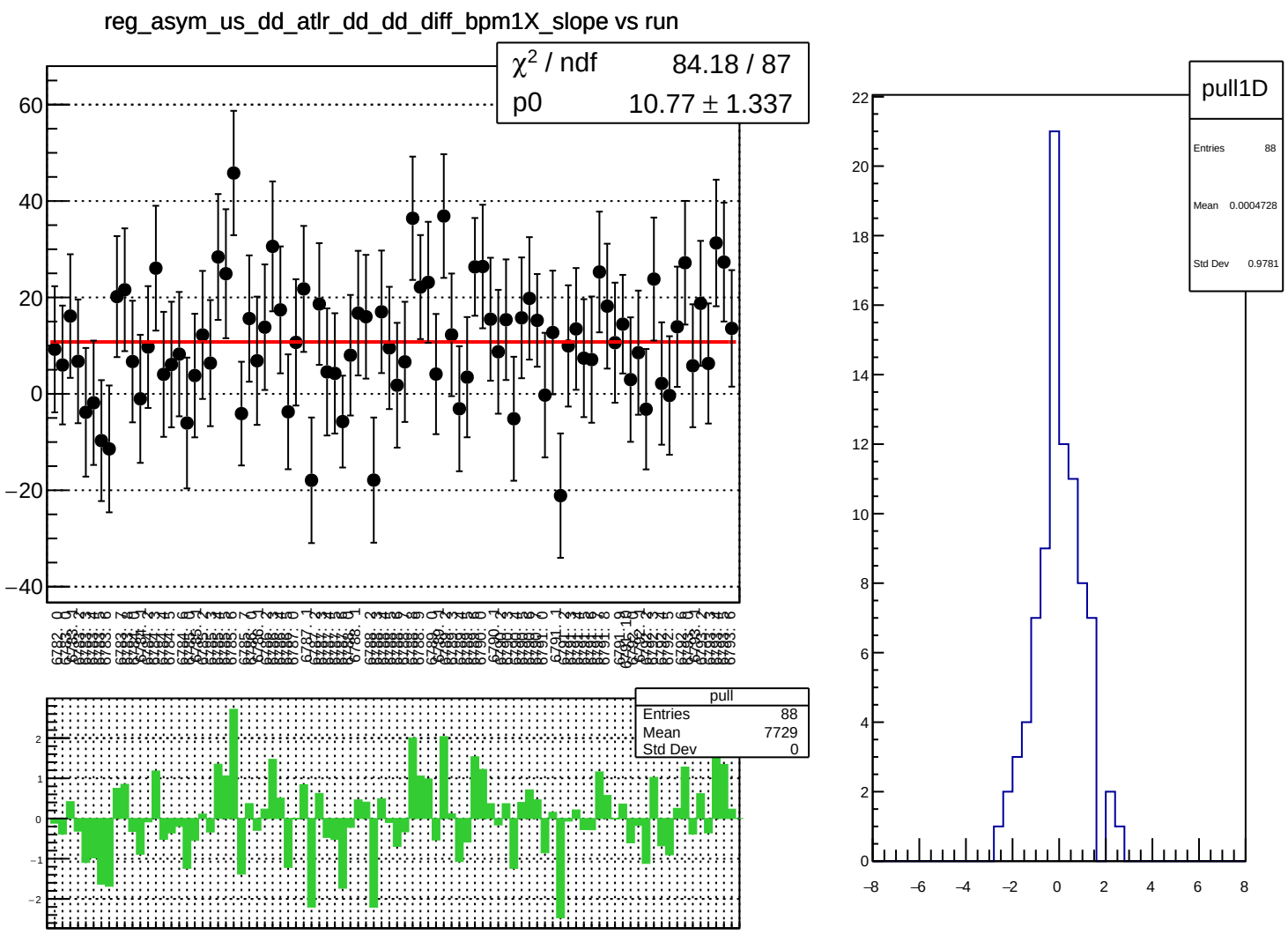

pull1D
Entries 88
Mean −0.01303
Std Dev 0.942

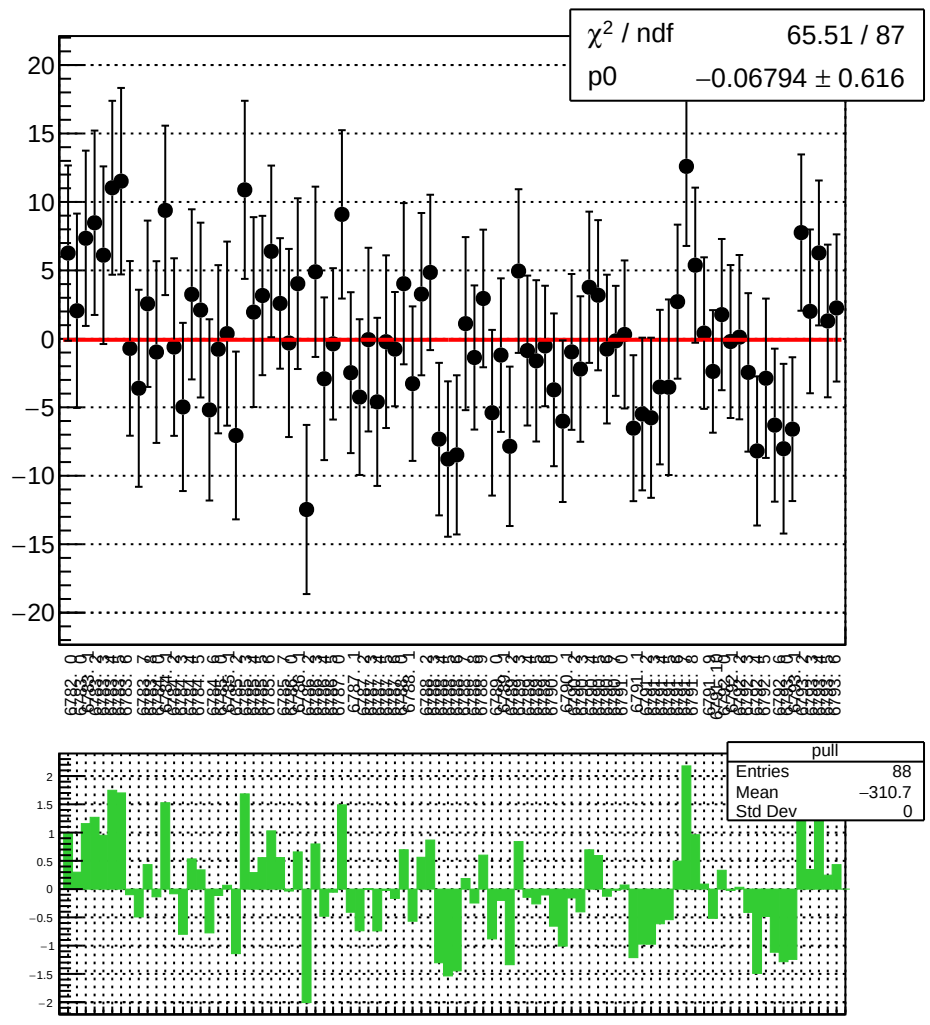

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.36 / 87
p0 −65.55 ± 2.036
pull
Entries 88
Mean 104.9
Std Dev 0
pull1D
Entries 88
Mean 0.007755
Std Dev 0.9733

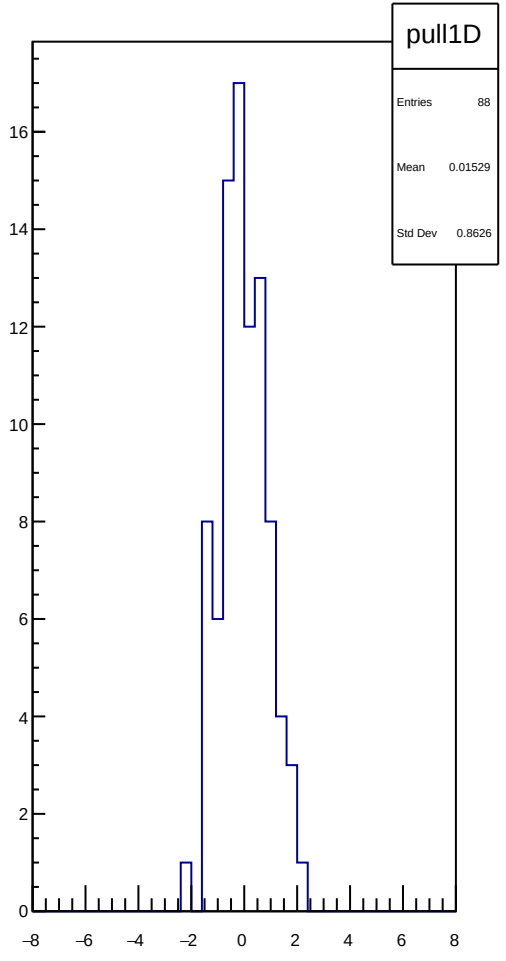

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.6 / 87
p0 13.24 ± 1.377
pull
Entries 88
Mean −451.8
Std Dev 0
pull1D
Entries 88
Mean 0.01446
Std Dev 0.9329

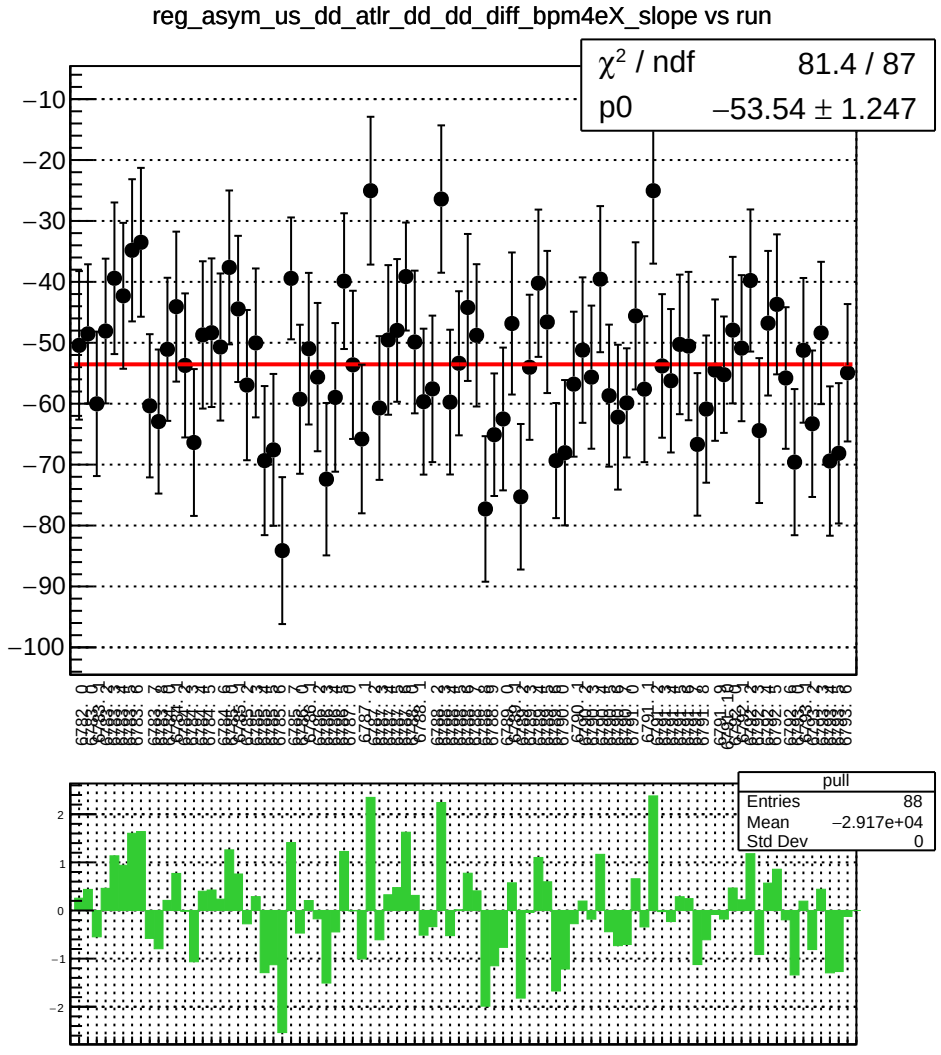

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 86.84 / 87
p0 −9.723 ± 0.09035
pull
Entries 88
Mean 7085
Std Dev 0

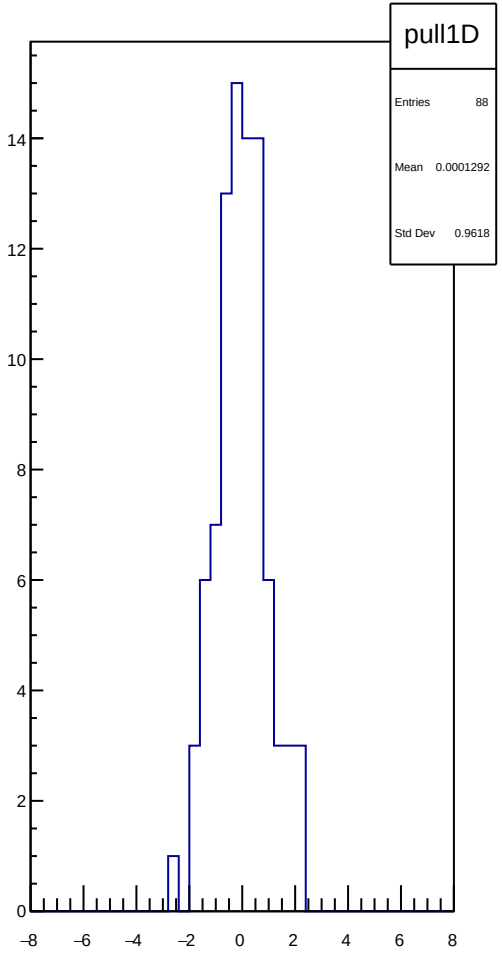

pull1D
Entries 88
Mean 0.0004829
Std Dev 0.9934

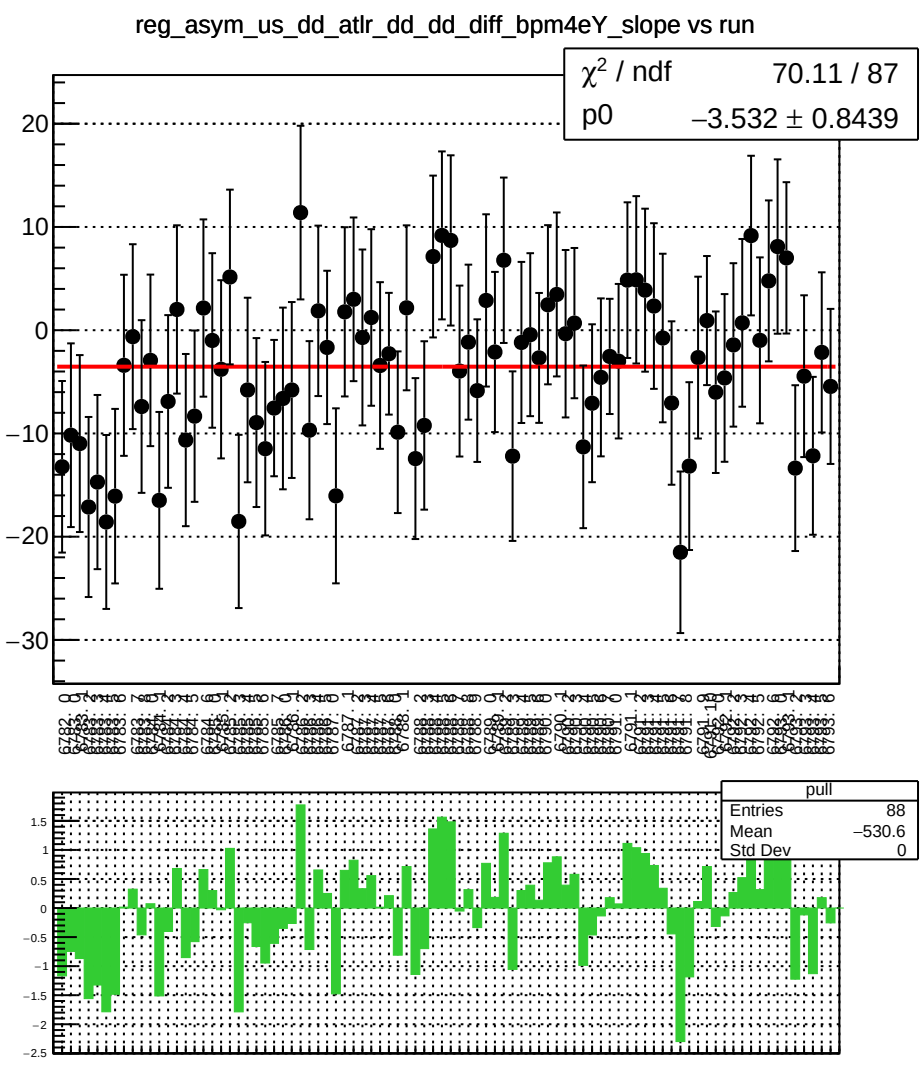

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 84.18 / 87
p0 10.77 ± 1.337
pull
Entries 88
Mean 7729
Std Dev 0
pull1D
Entries 88
Mean 0.0004728
Std Dev 0.9781

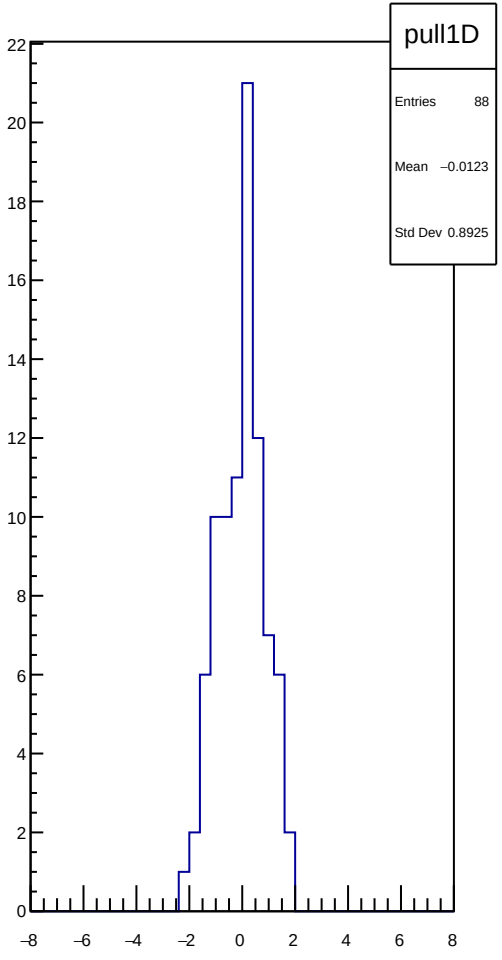

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.51 / 87
p0 −0.06794 ± 0.616
pull
Entries 88
Mean −310.7
Std Dev 0

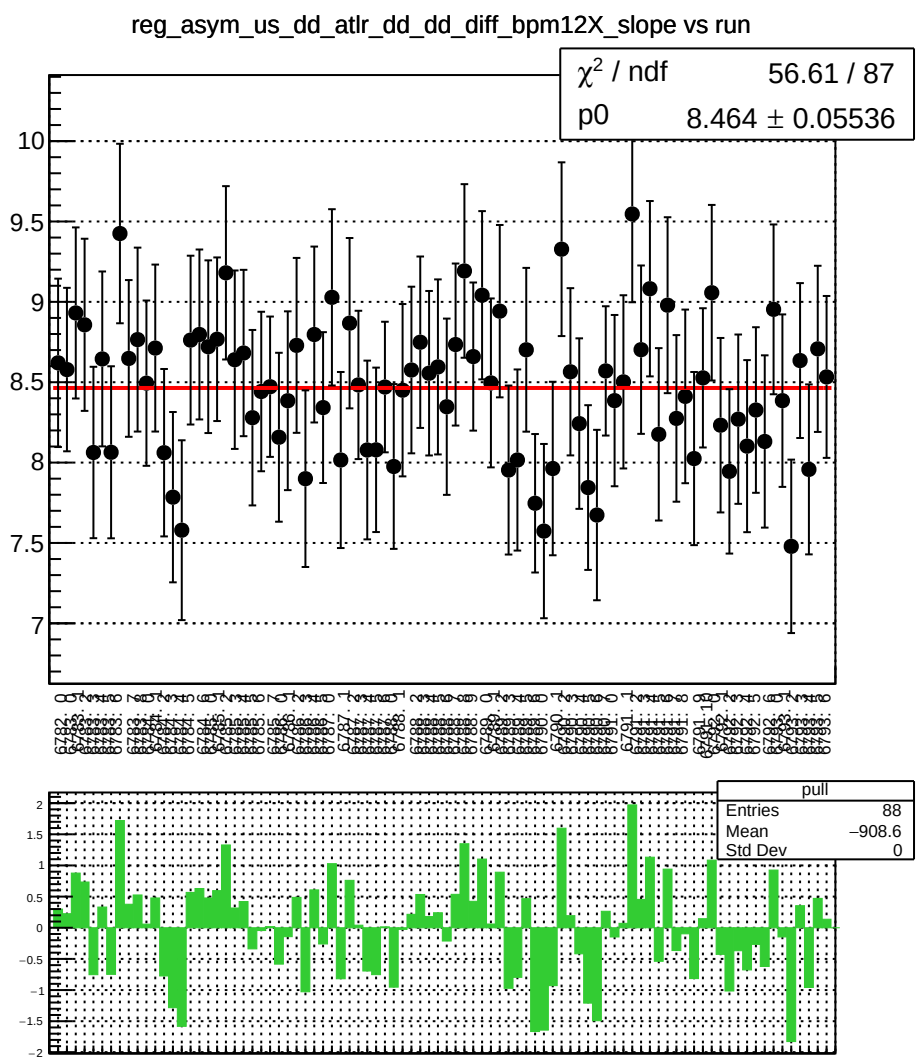

pull1D
Entries 88
Mean 0.01529
Std Dev 0.8626

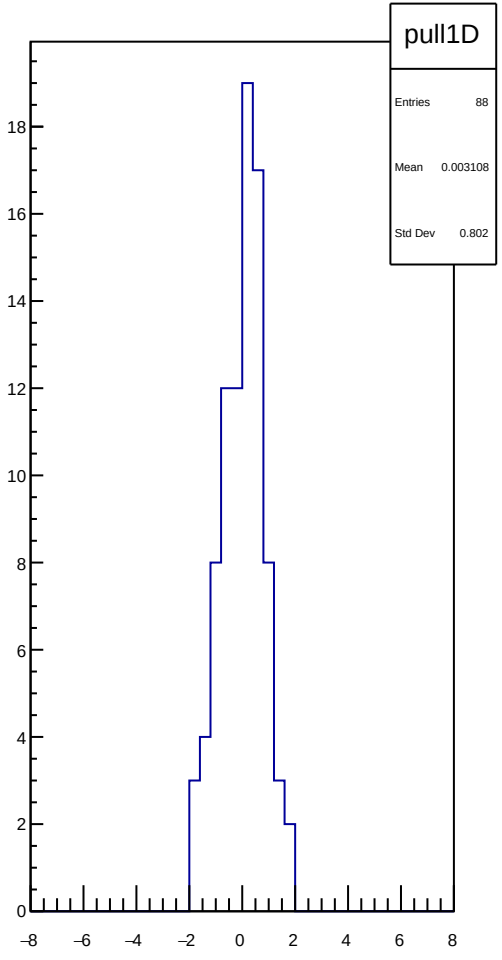

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.4 / 87
p0 −53.54 ± 1.247
pull
Entries 88
Mean −2.917e+04
Std Dev 0

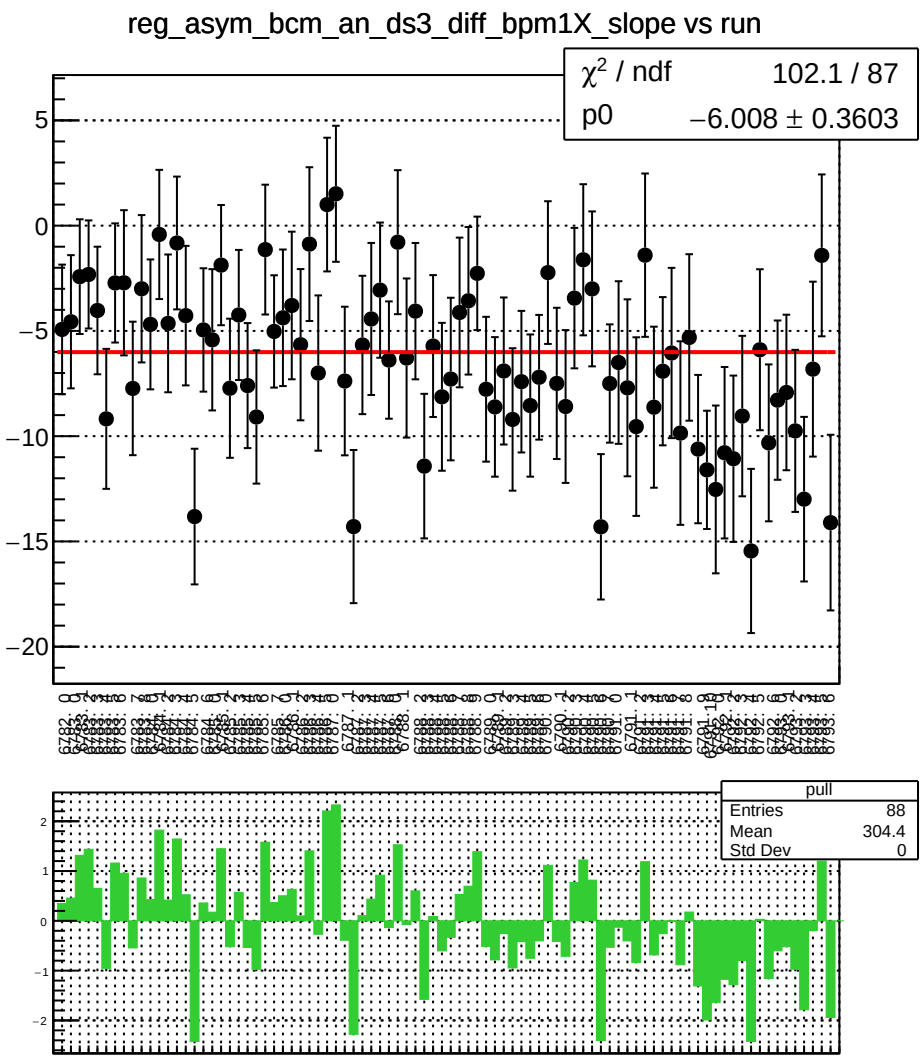

pull1D
Entries 88
Mean 0.0001292
Std Dev 0.9618

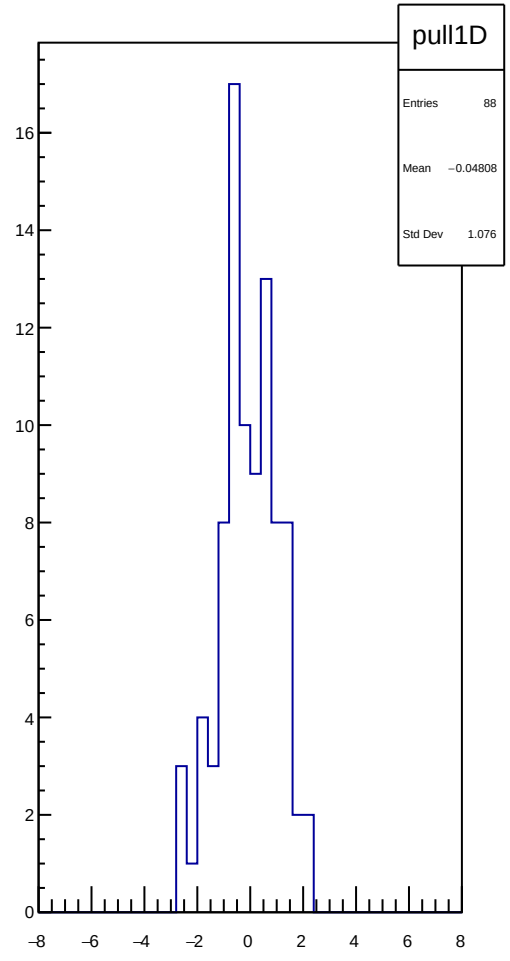

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.11 / 87
p0 −3.532 ± 0.8439
pull
Entries 88
Mean −530.6
Std Dev 0

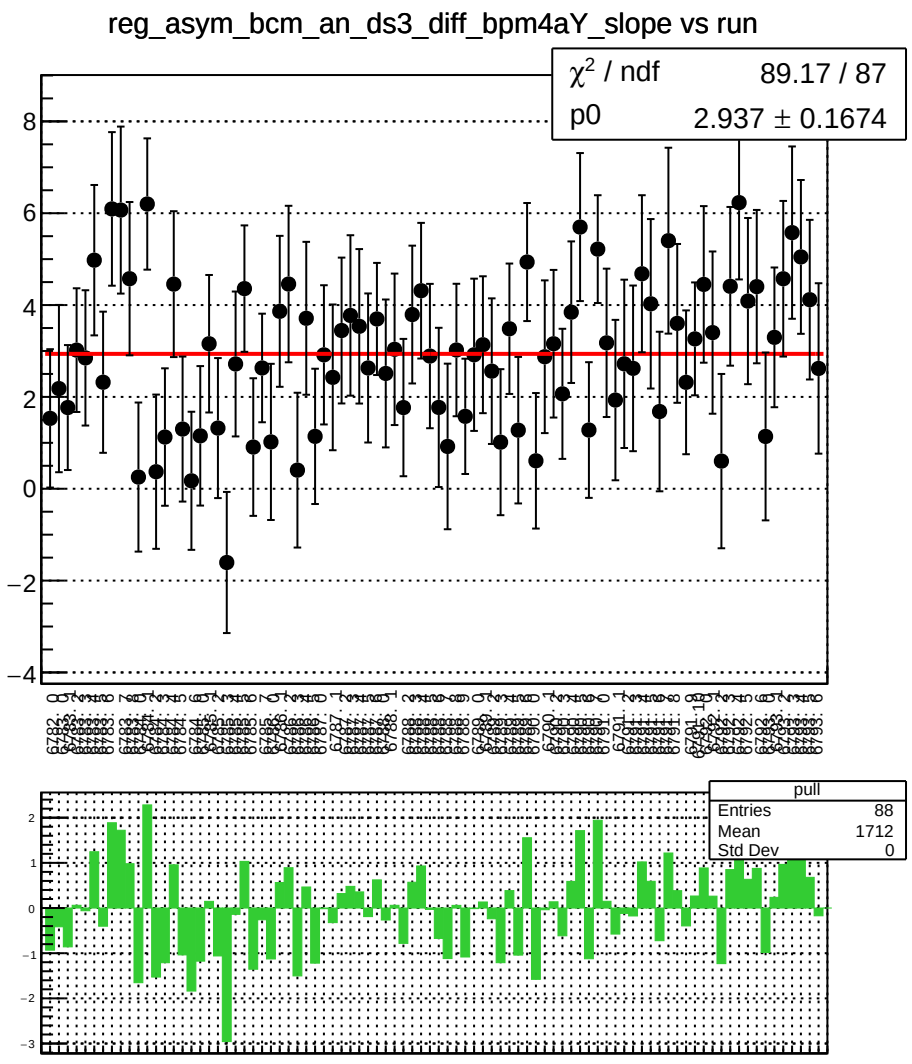

pull1D
Entries 88
Mean −0.0123
Std Dev 0.8925

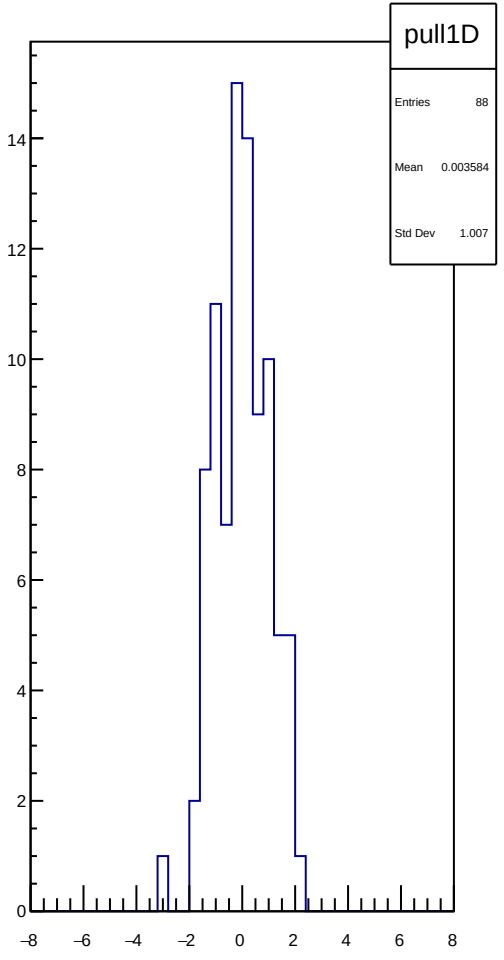

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 56.61 / 87
p0 8.464 ± 0.05536
pull
Entries 88
Mean −908.6
Std Dev 0

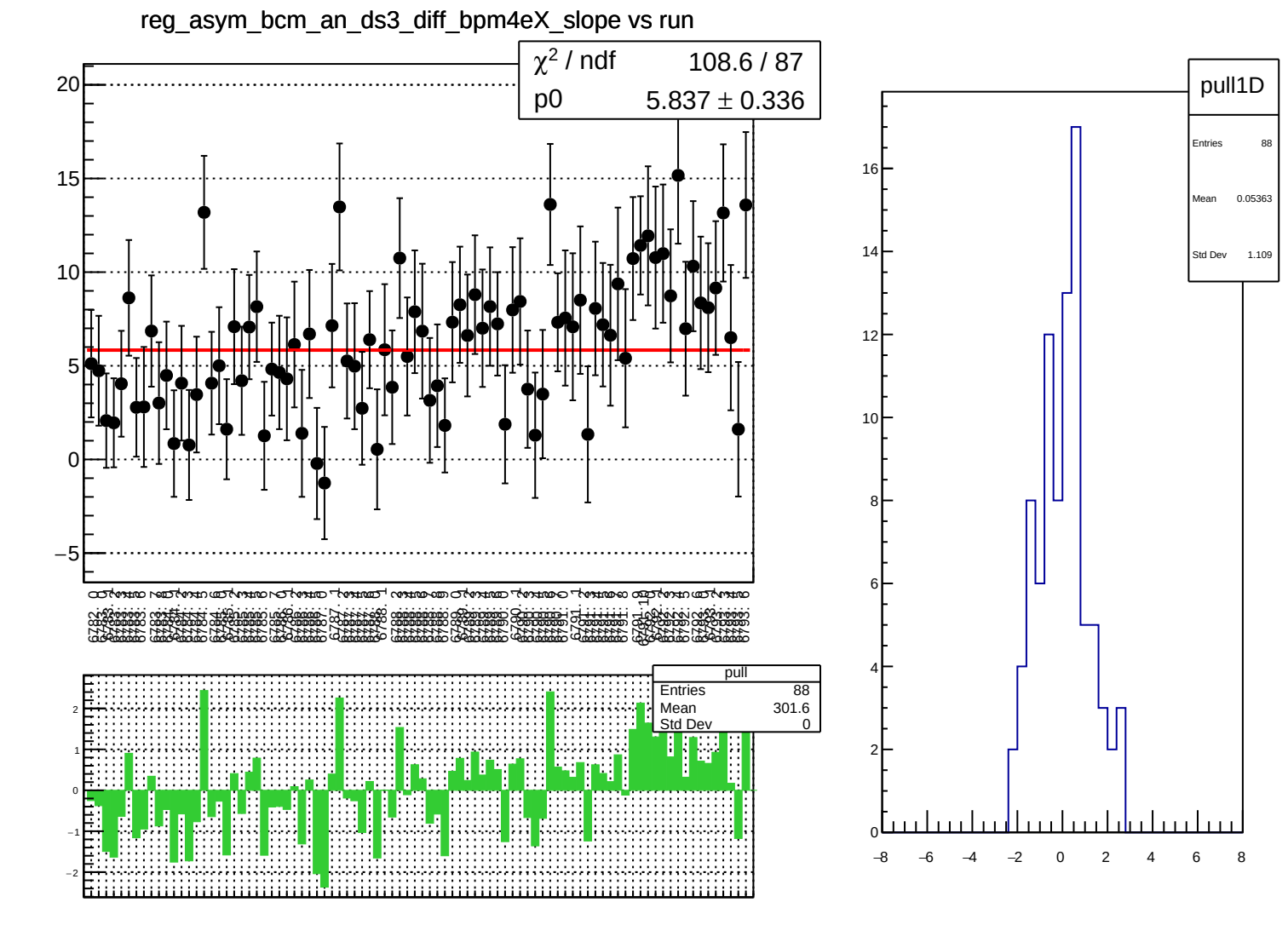

pull1D
Entries 88
Mean 0.003108
Std Dev 0.802

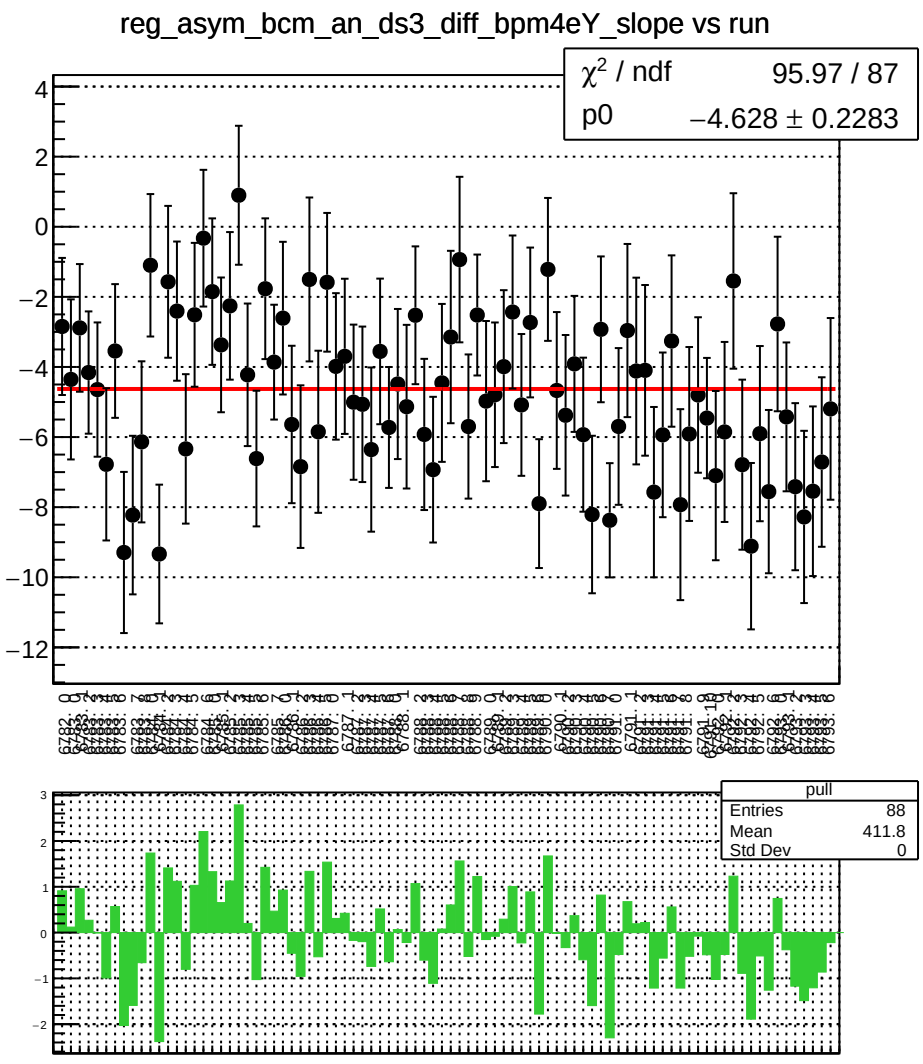

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 102.1 / 87
p0 −6.008 ± 0.3603
pull
Entries 88
Mean 304.4
Std Dev 0

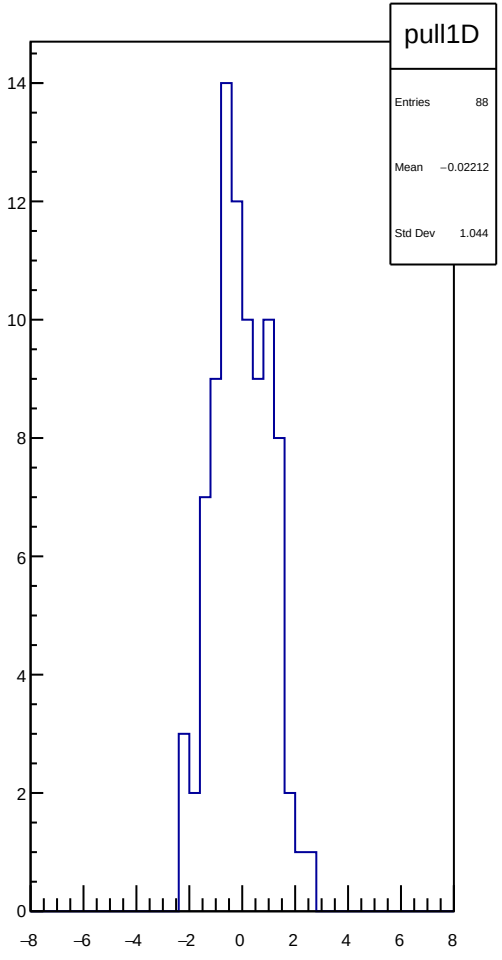

pull1D
Entries 88
Mean −0.04808
Std Dev 1.076

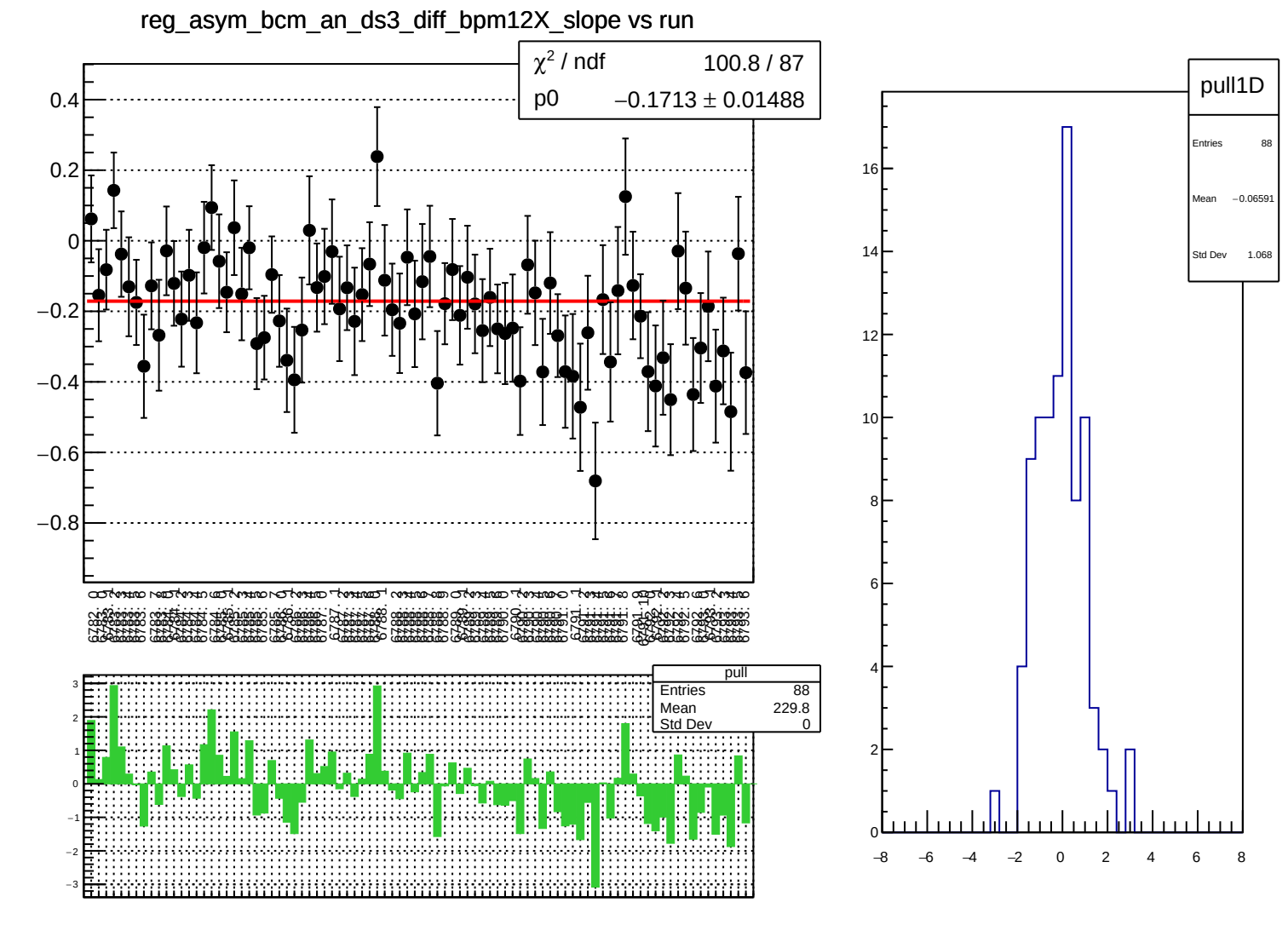

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 89.17 / 87
p0 2.937 ± 0.1674
pull
Entries 88
Mean 1712
Std Dev 0

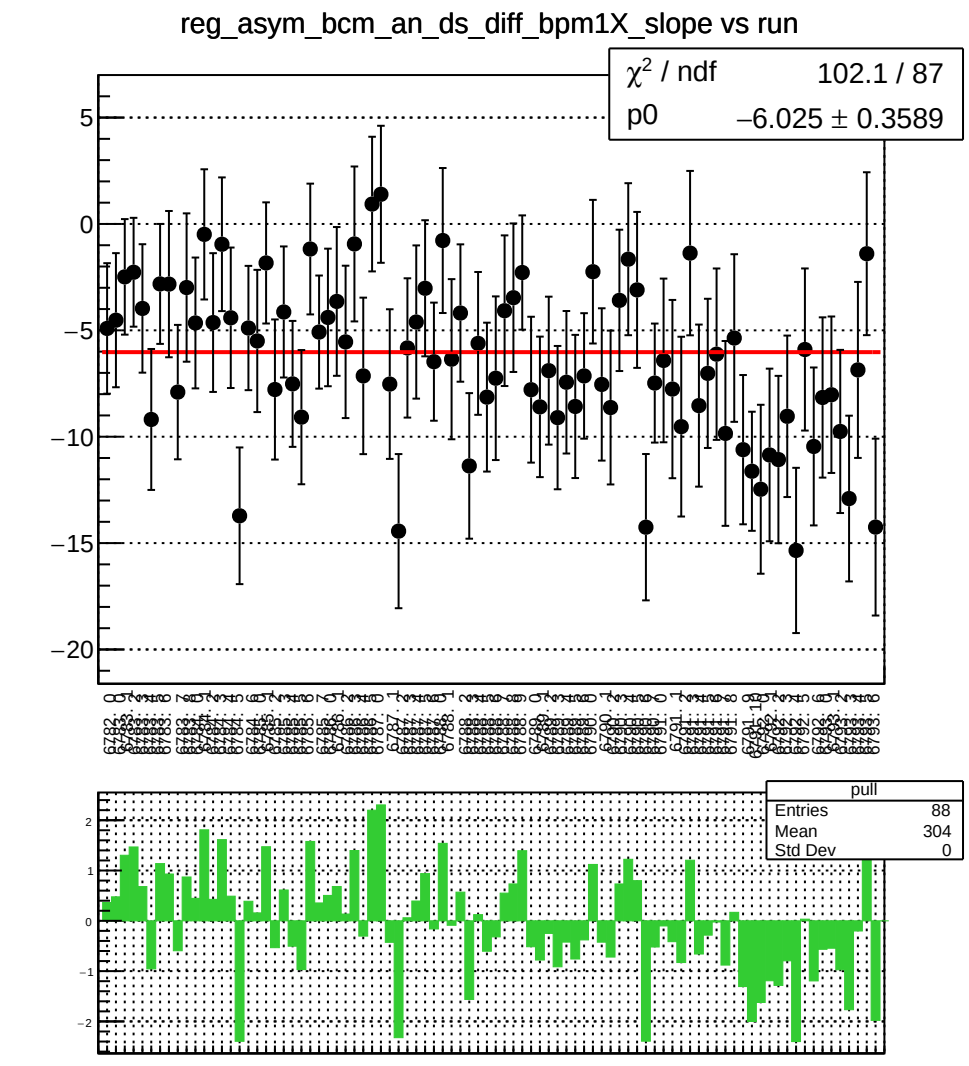

pull1D
Entries 88
Mean 0.003584
Std Dev 1.007

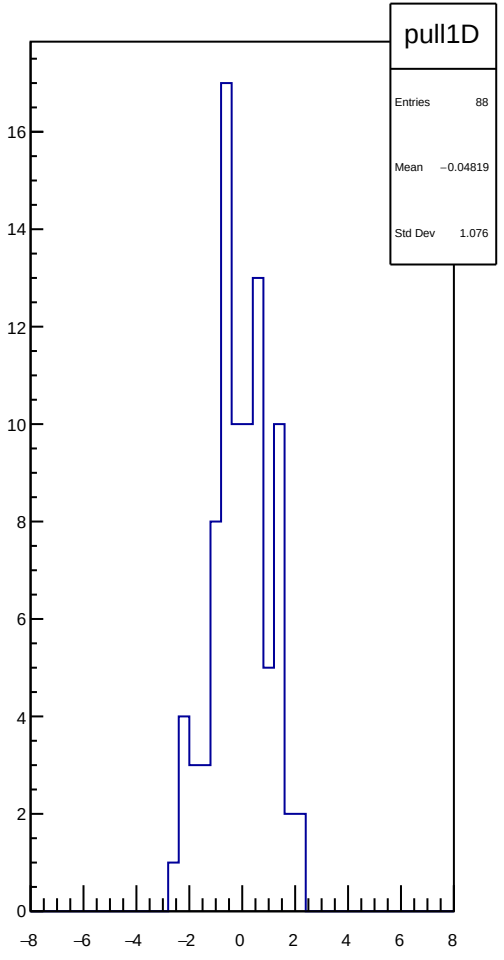

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 108.6 / 87
p0 5.837 ± 0.336
pull
Entries 88
Mean 301.6
Std Dev 0
pull1D
Entries 88
Mean 0.05363
Std Dev 1.109

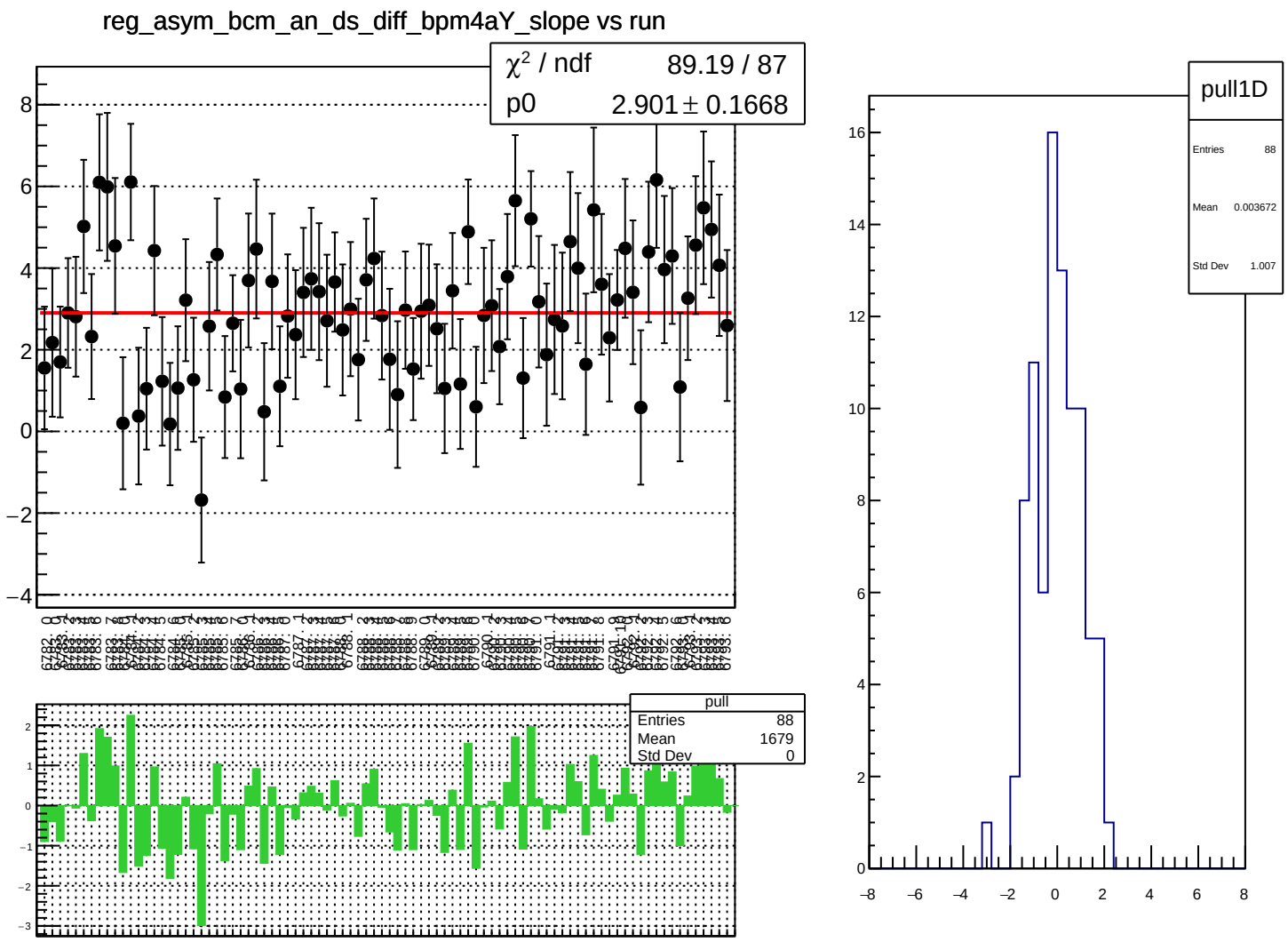

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 95.97 / 87
p0 −4.628 ± 0.2283
pull
Entries 88
Mean 411.8
Std Dev 0

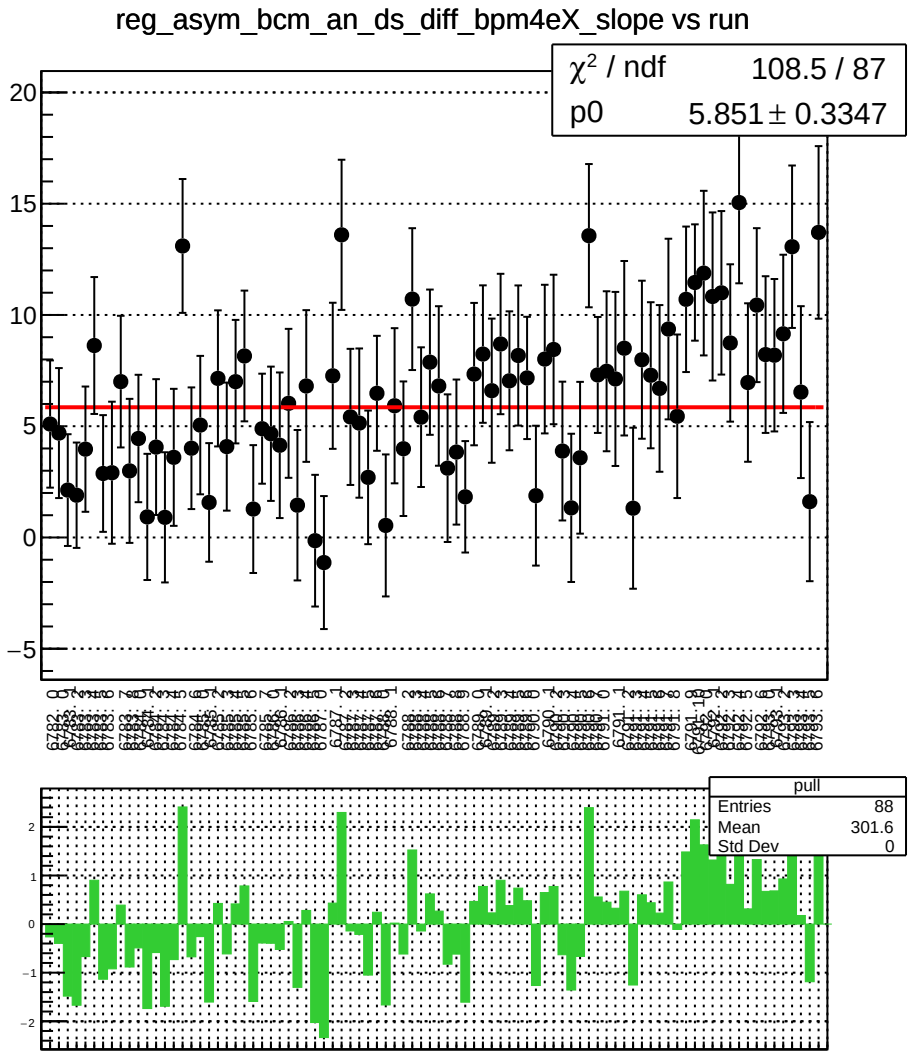

pull1D
Entries 88
Mean −0.02212
Std Dev 1.044

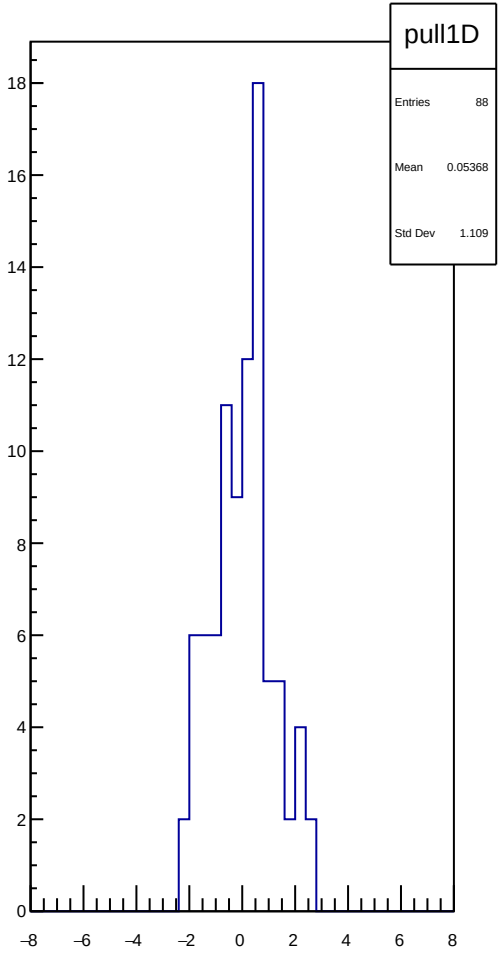

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 100.8 / 87
p0 −0.1713 ± 0.01488
pull
Entries 88
Mean 229.8
Std Dev 0
pull1D
Entries 88
Mean −0.06591
Std Dev 1.068

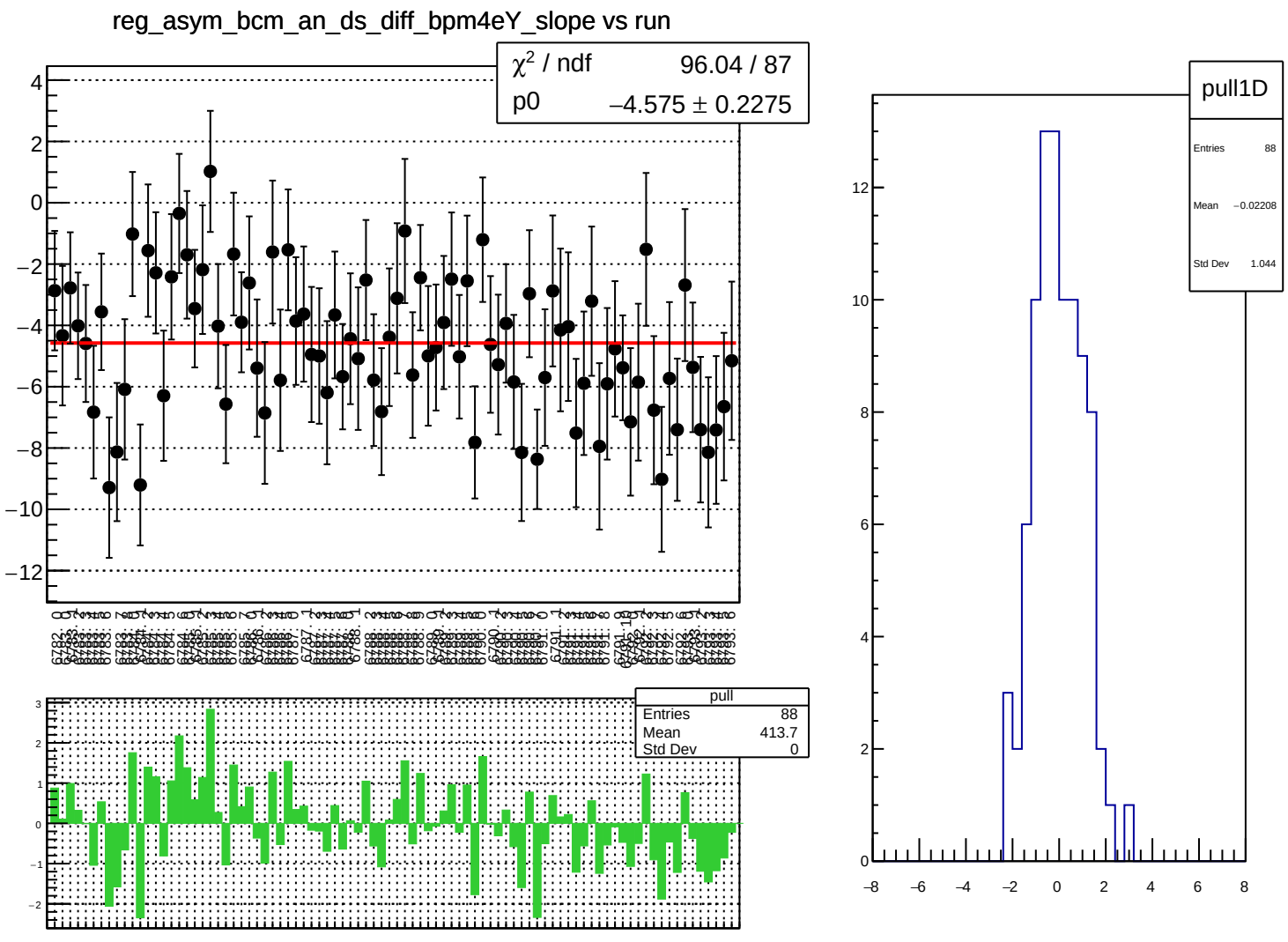

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 102.1 / 87
p0 −6.025 ± 0.3589
pull
Entries 88
Mean 304
Std Dev 0

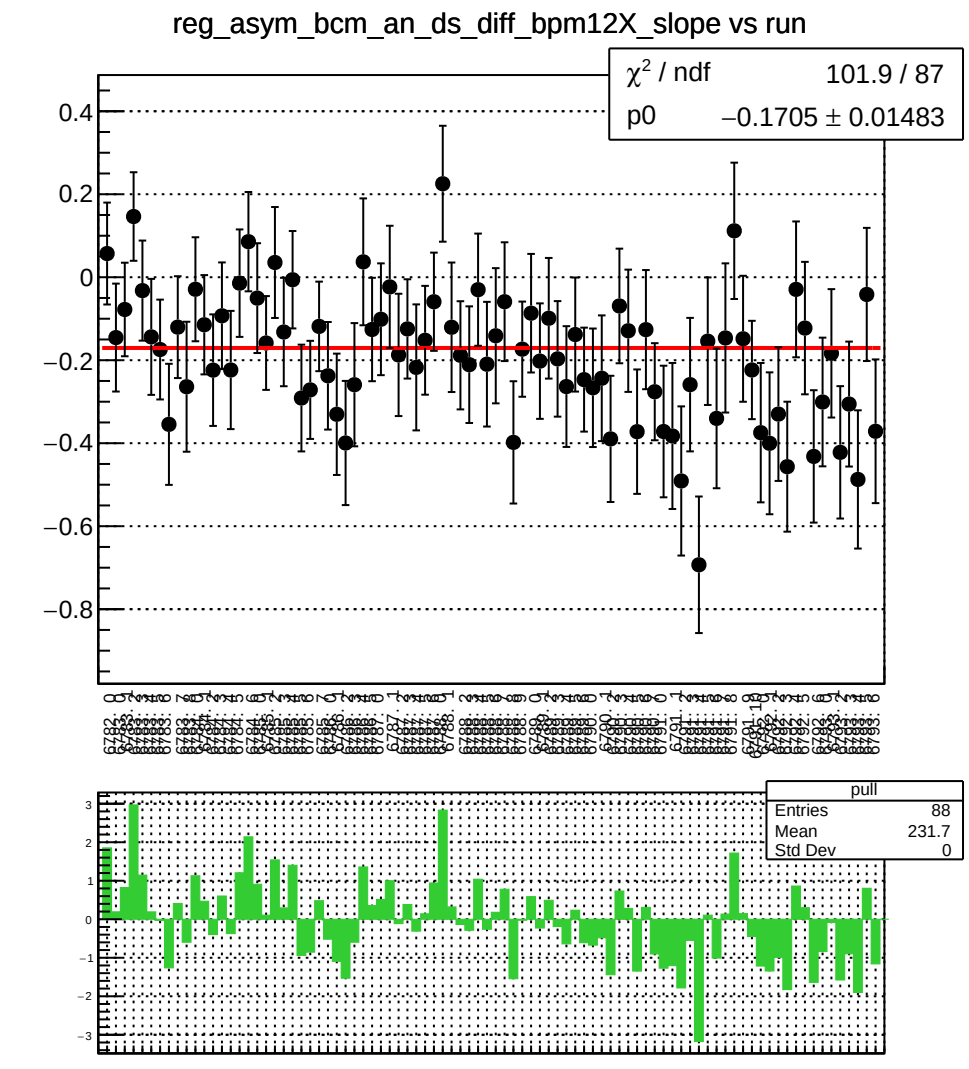

pull1D
Entries 88
Mean −0.04819
Std Dev 1.076

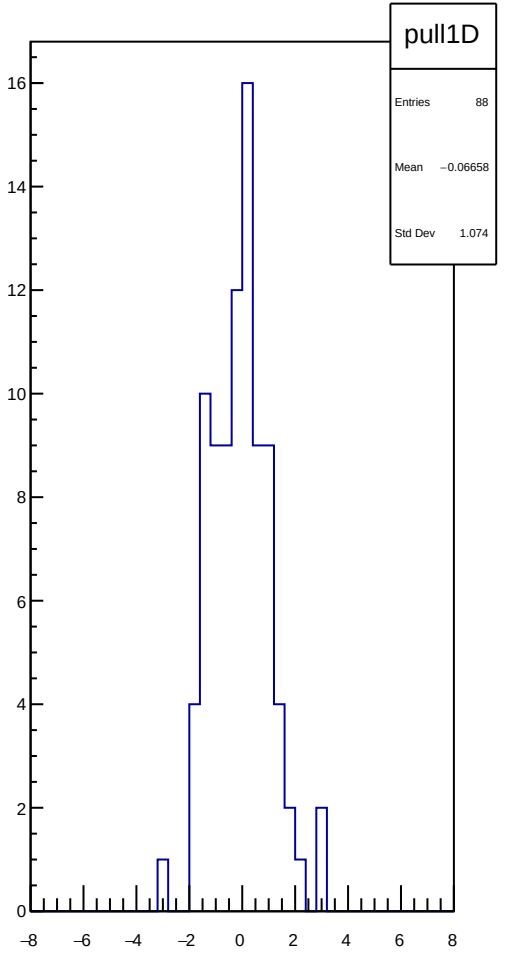

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 89.19 / 87
p0 2.901 ± 0.1668
pull
Entries 88
Mean 1679
Std Dev 0
pull1D
Entries 88
Mean 0.003672
Std Dev 1.007

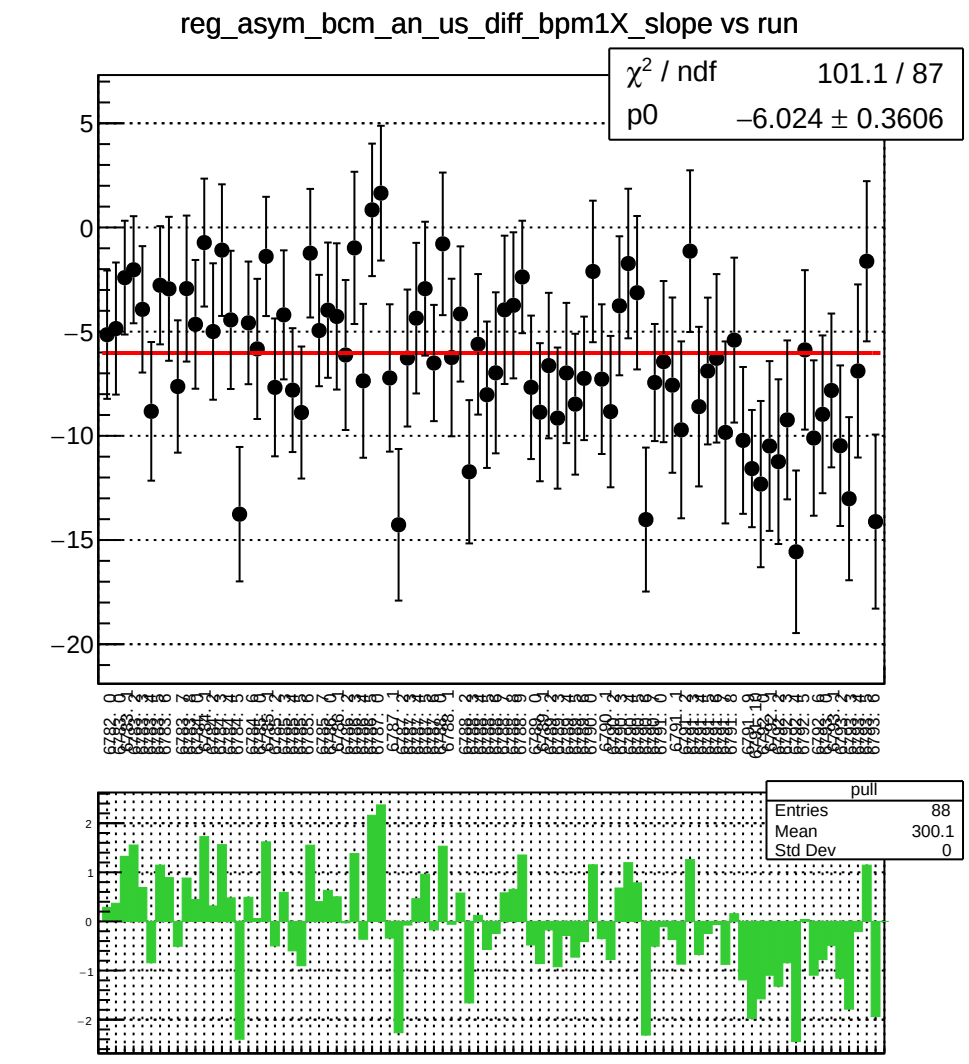

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 108.5 / 87
p0 5.851 ± 0.3347
pull
Entries 88
Mean 301.6
Std Dev 0

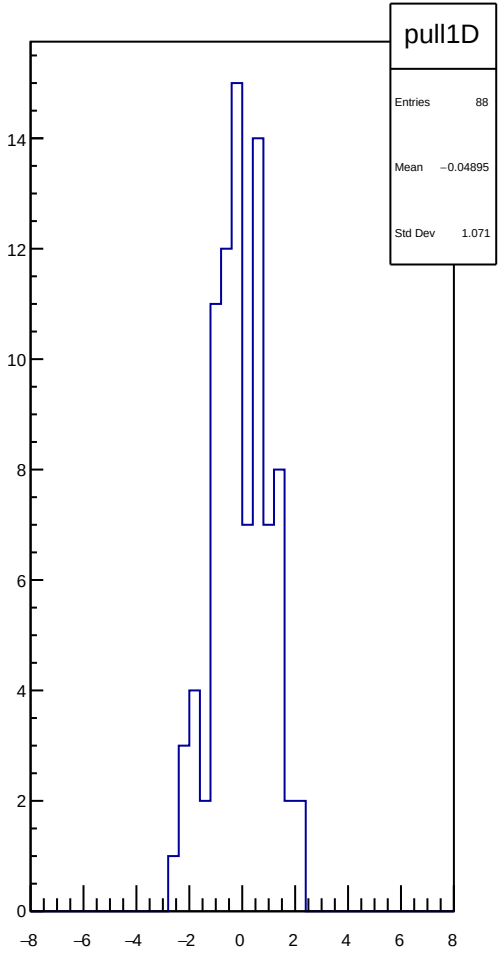

pull1D
Entries 88
Mean 0.05368
Std Dev 1.109

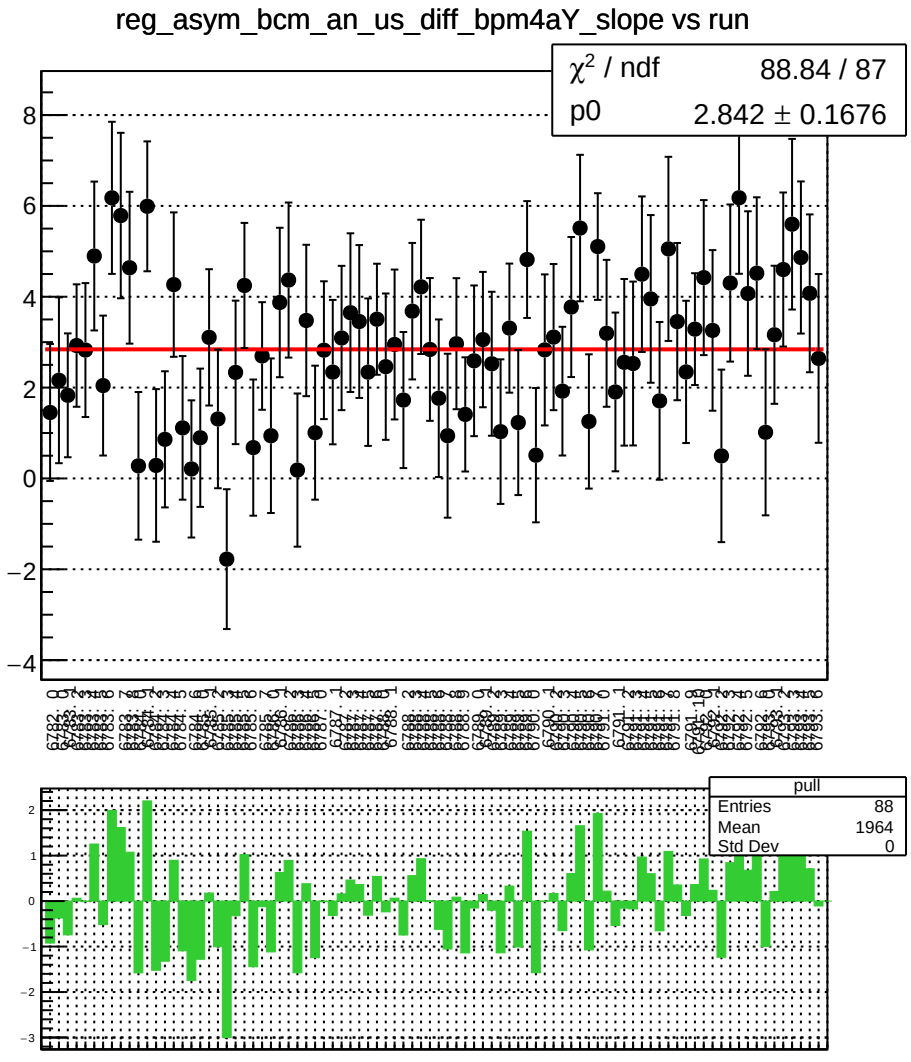

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 96.04 / 87
p0 −4.575 ± 0.2275
pull
Entries 88
Mean 413.7
Std Dev 0
pull1D
Entries 88
Mean −0.02208
Std Dev 1.044

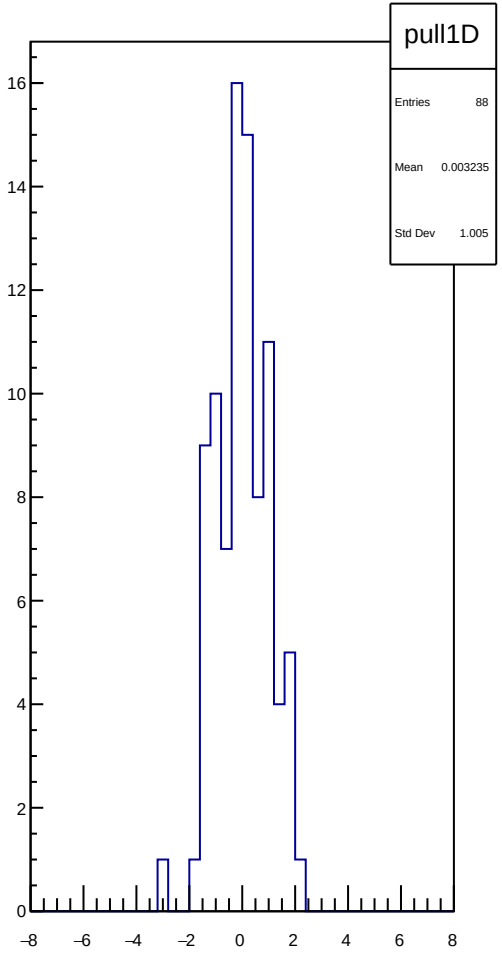

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 101.9 / 87
p0 −0.1705 ± 0.01483
pull
Entries 88
Mean 231.7
Std Dev 0

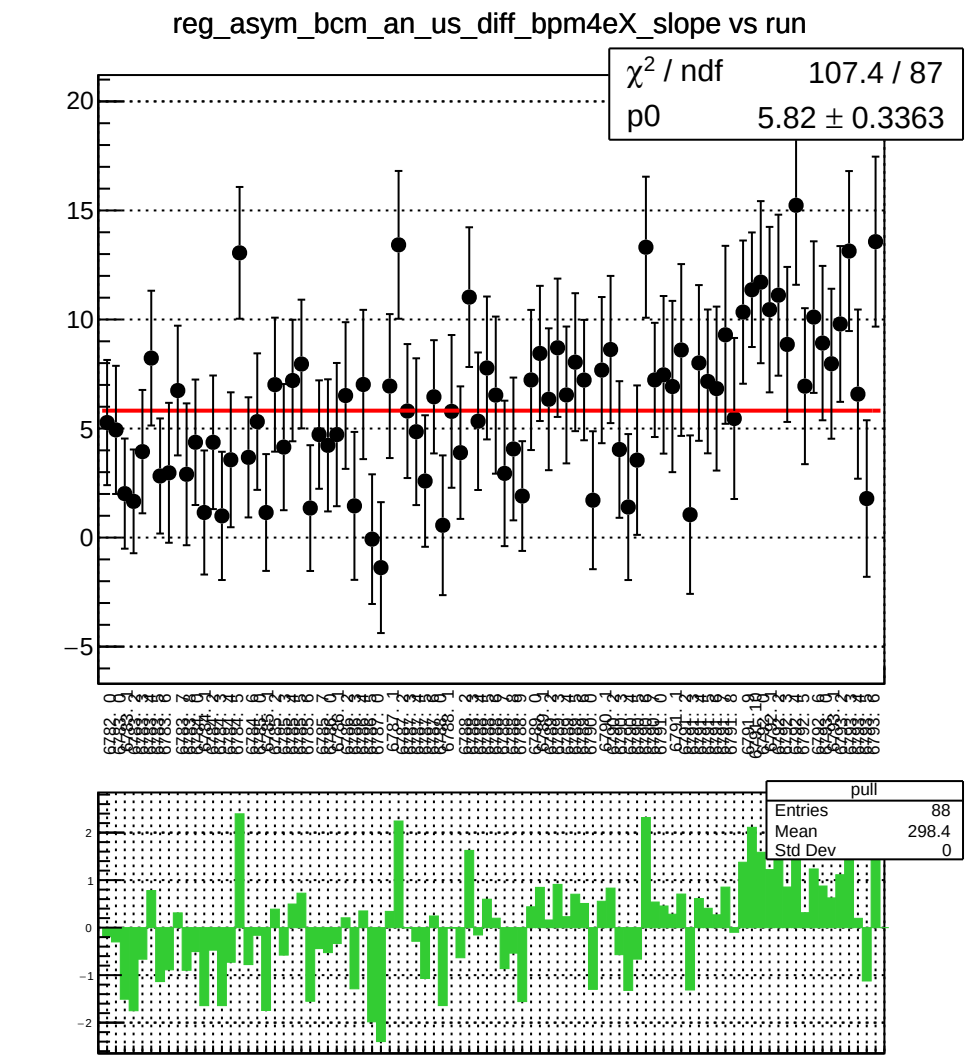

pull1D
Entries 88
Mean −0.06658
Std Dev 1.074

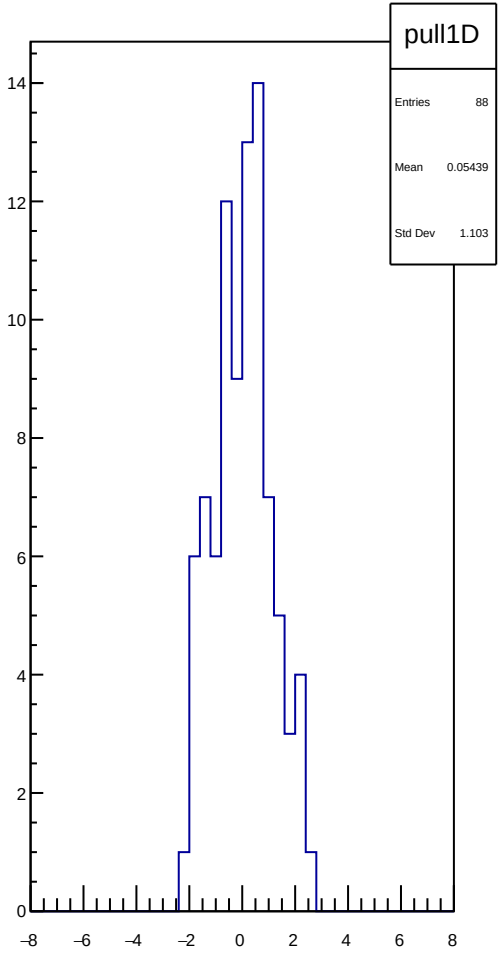

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 101.1 / 87
p0 −6.024 ± 0.3606
pull
Entries 88
Mean 300.1
Std Dev 0

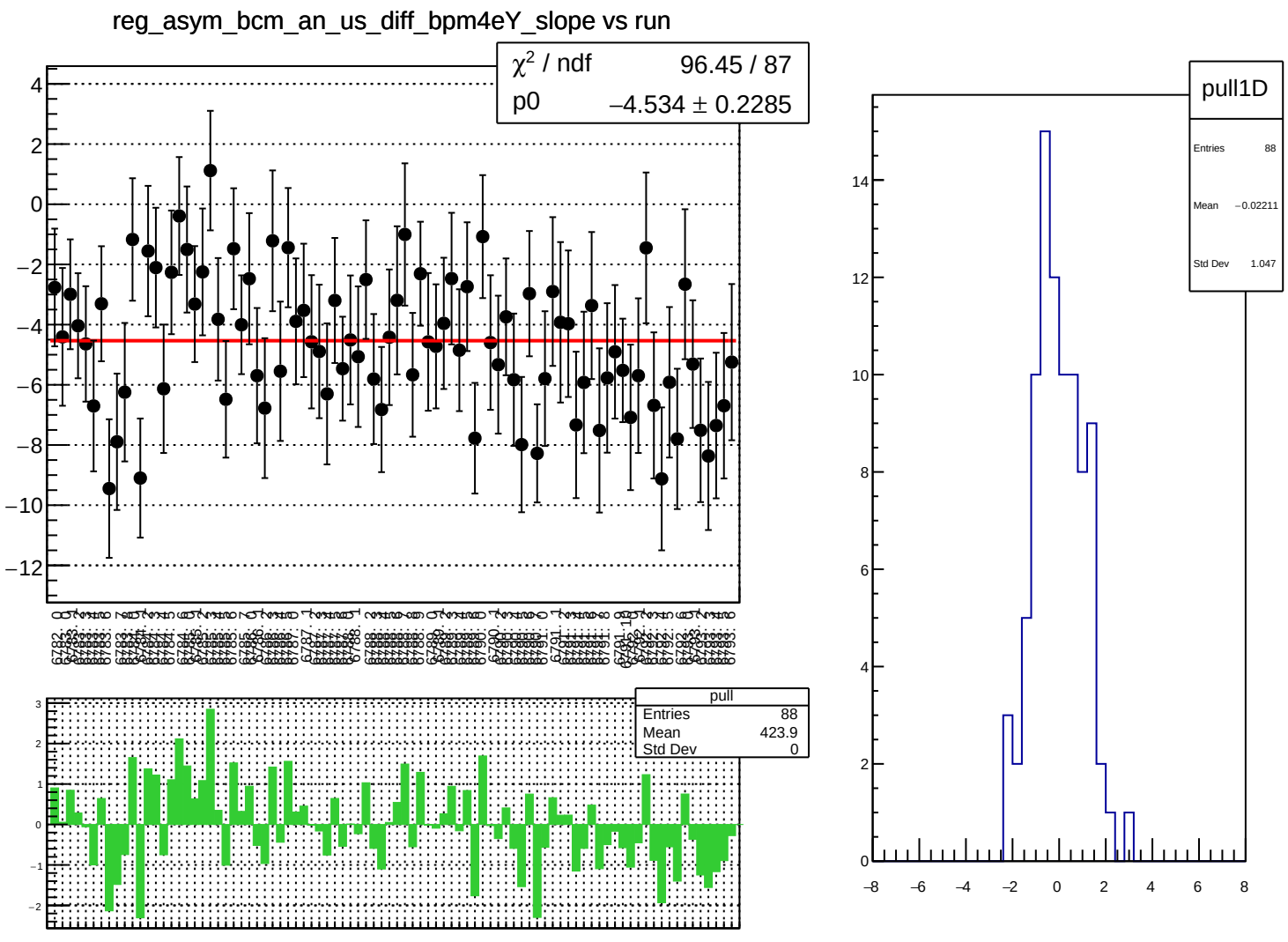

pull1D
Entries 88
Mean −0.04895
Std Dev 1.071

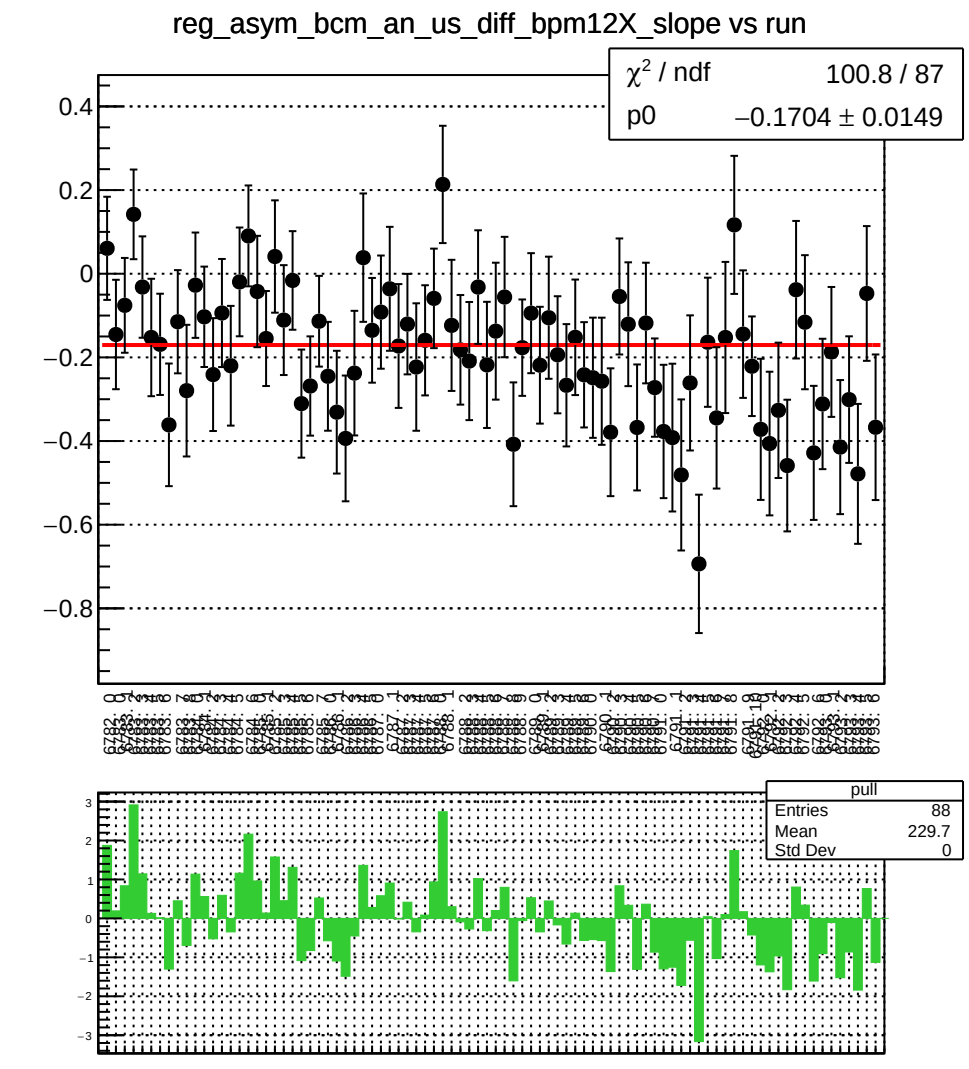

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 88.84 / 87
p0 2.842 ± 0.1676
pull
Entries 88
Mean 1964
Std Dev 0

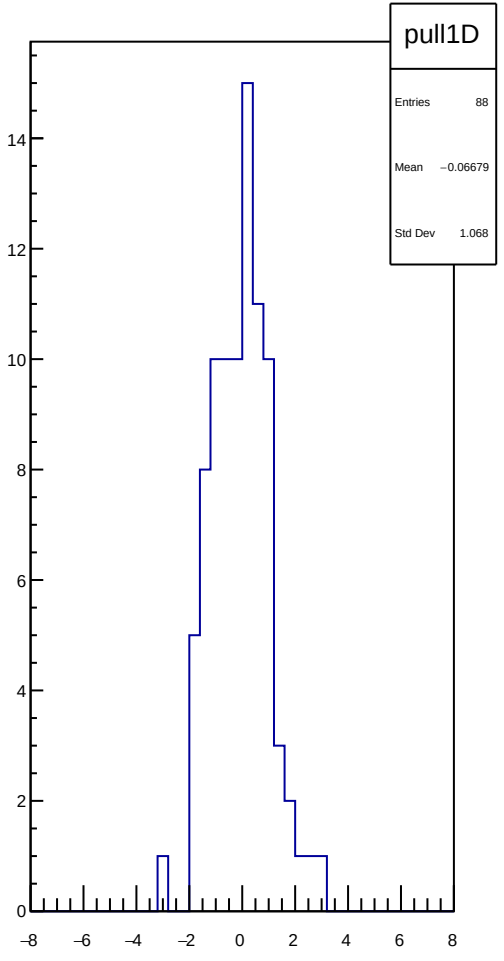

pull1D
Entries 88
Mean 0.003235
Std Dev 1.005

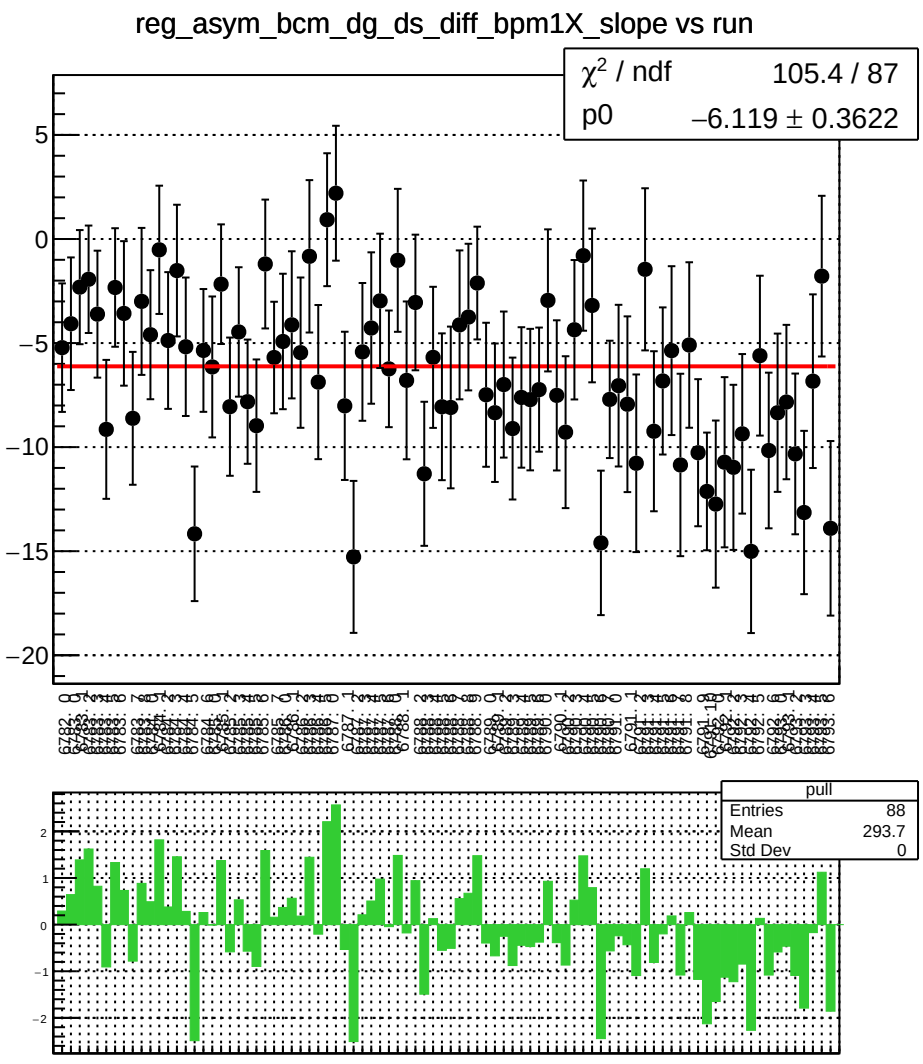

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 107.4 / 87
p0 5.82 ± 0.3363
pull
Entries 88
Mean 298.4
Std Dev 0

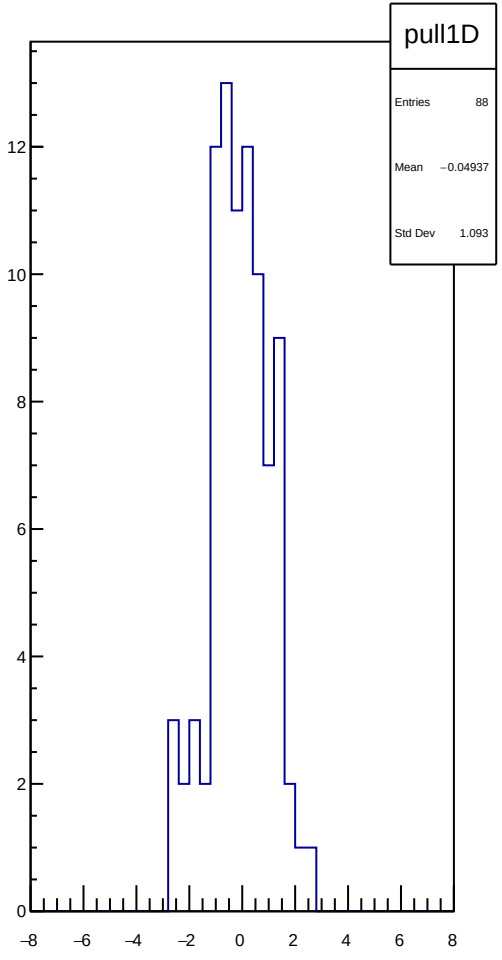

pull1D
Entries 88
Mean 0.05439
Std Dev 1.103

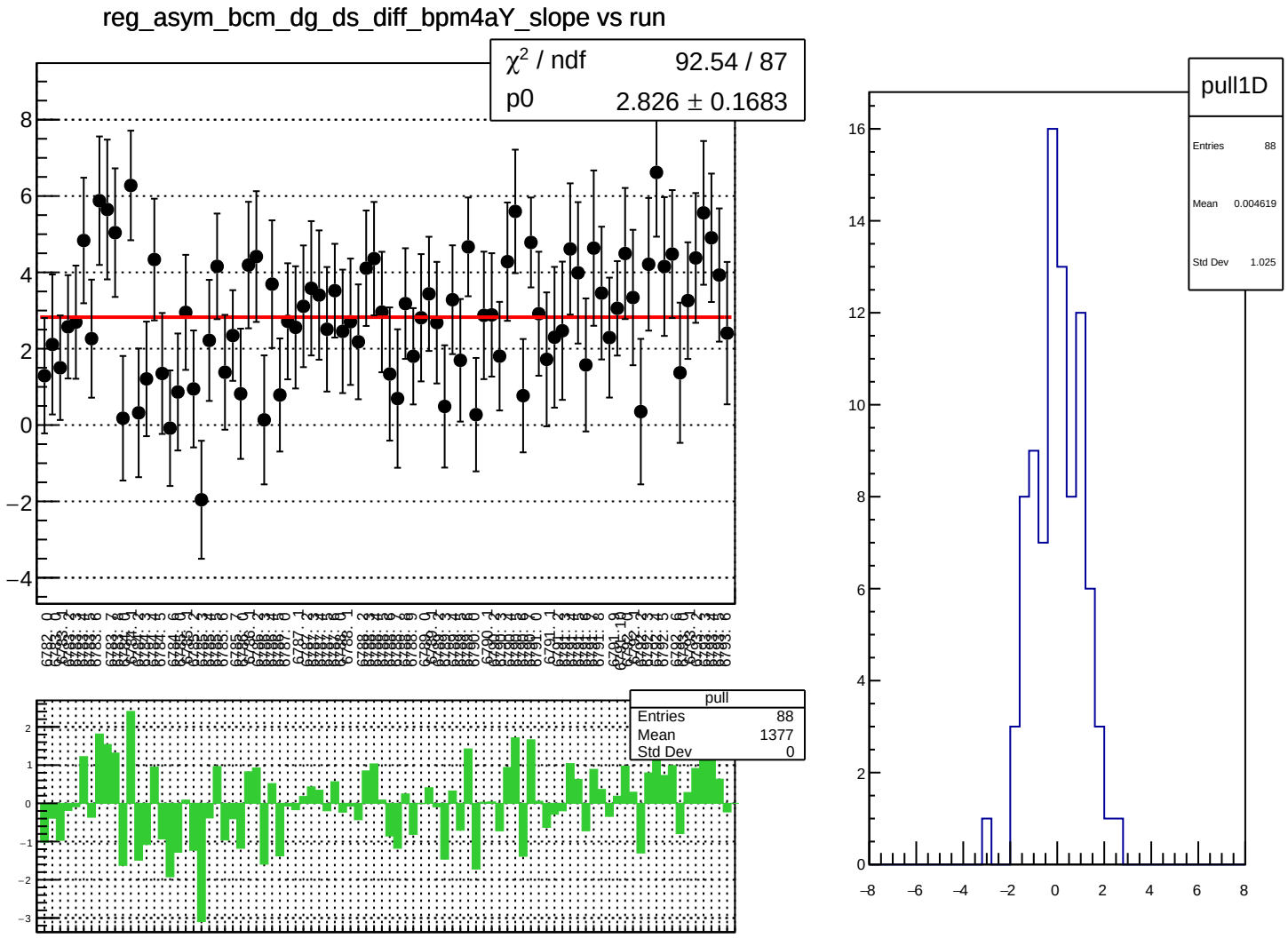

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 96.45 / 87
p0 −4.534 ± 0.2285
pull
Entries 88
Mean 423.9
Std Dev 0
pull1D
Entries 88
Mean −0.02211
Std Dev 1.047

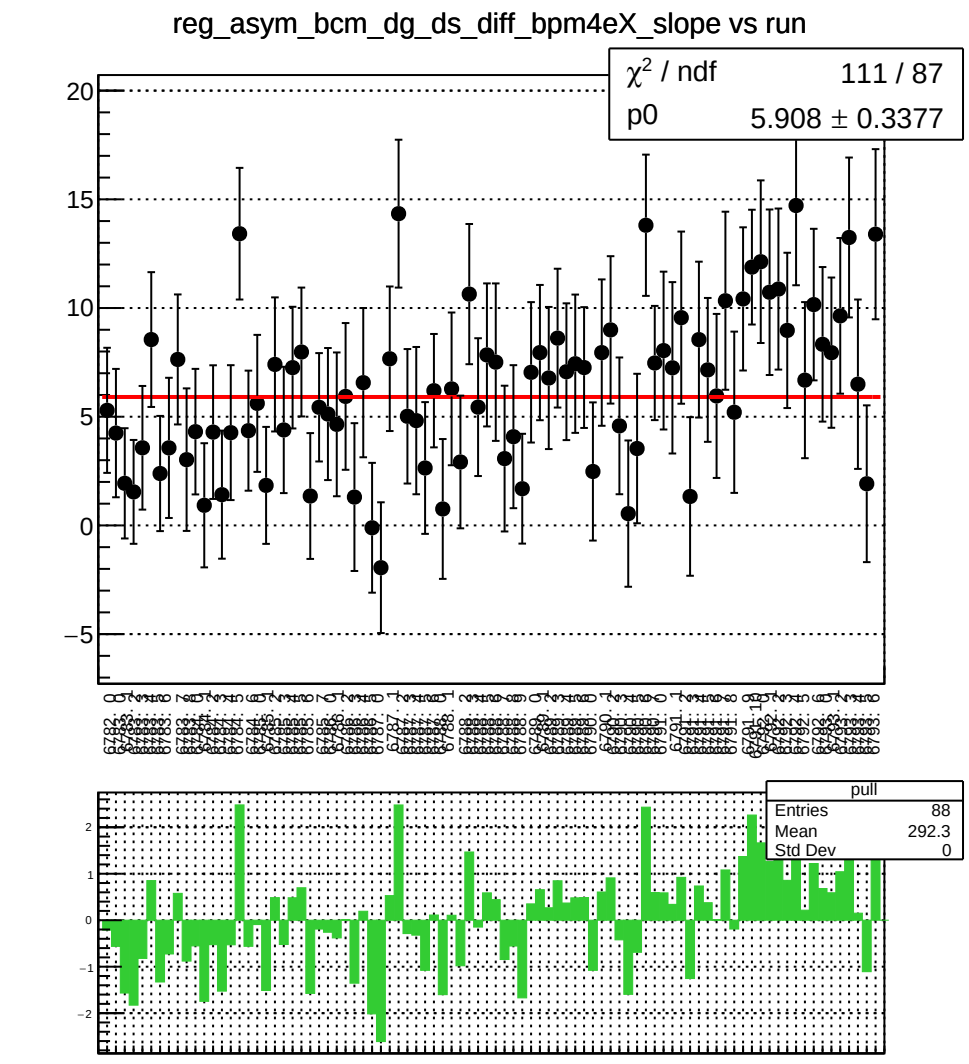

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 100.8 / 87
p0 −0.1704 ± 0.0149
pull
Entries 88
Mean 229.7
Std Dev 0

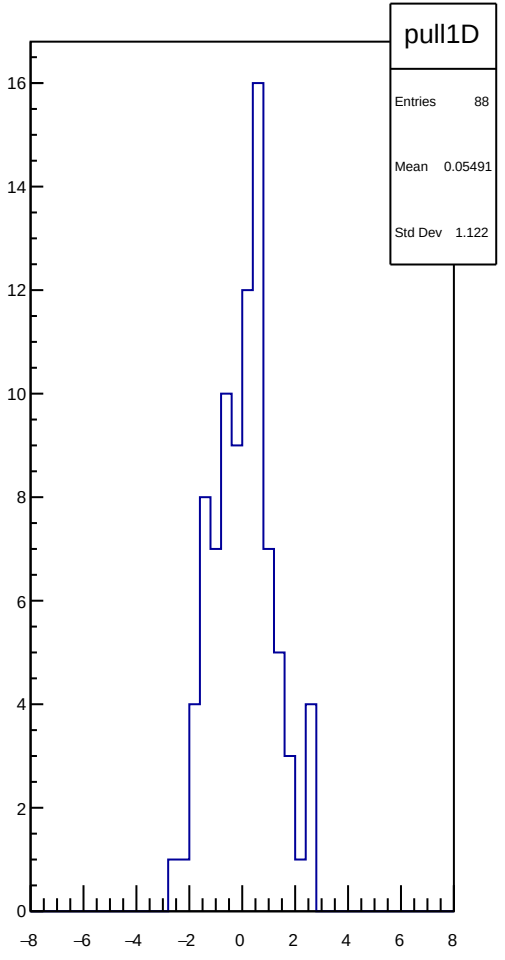

pull1D
Entries 88
Mean −0.06679
Std Dev 1.068

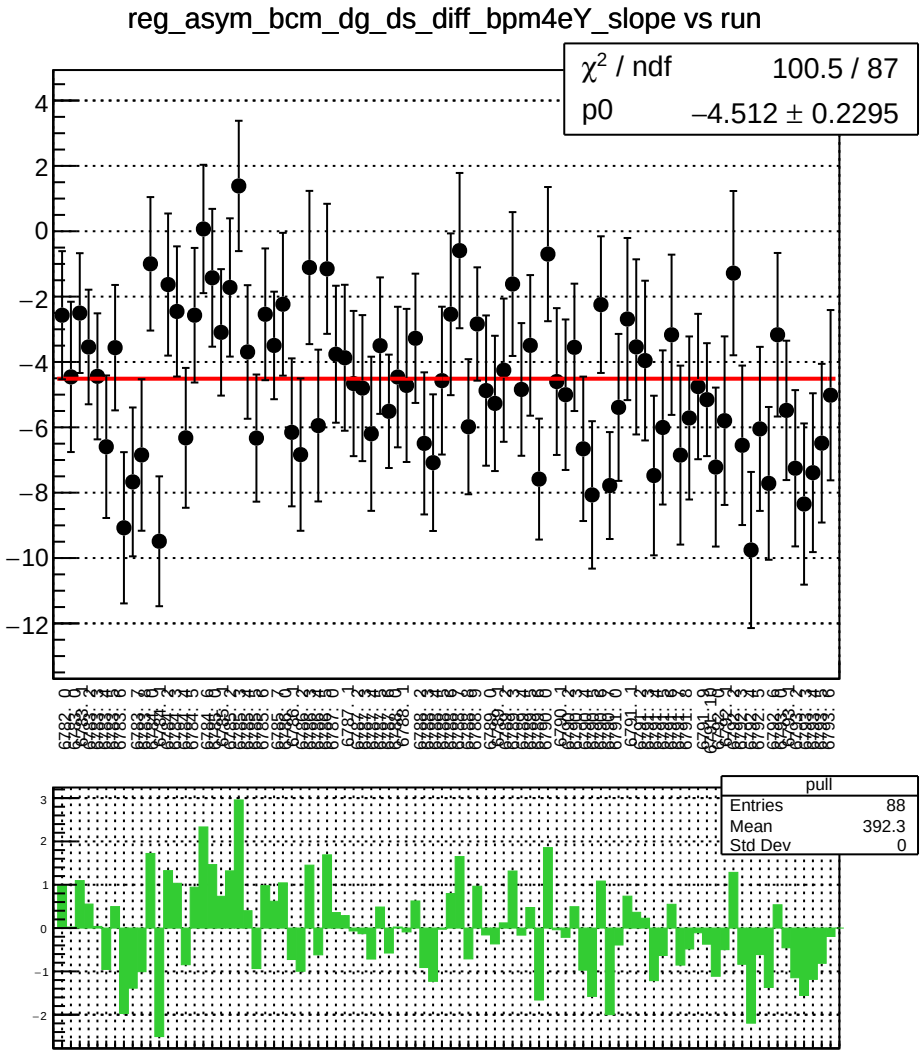

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 87
p0 −6.119 ± 0.3622
pull
Entries 88
Mean 293.7
Std Dev 0

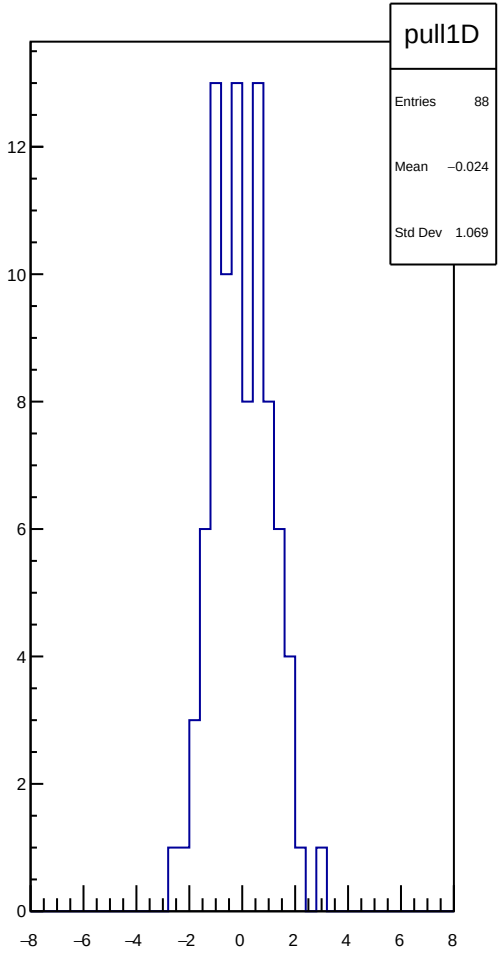

pull1D
Entries 88
Mean −0.04937
Std Dev 1.093

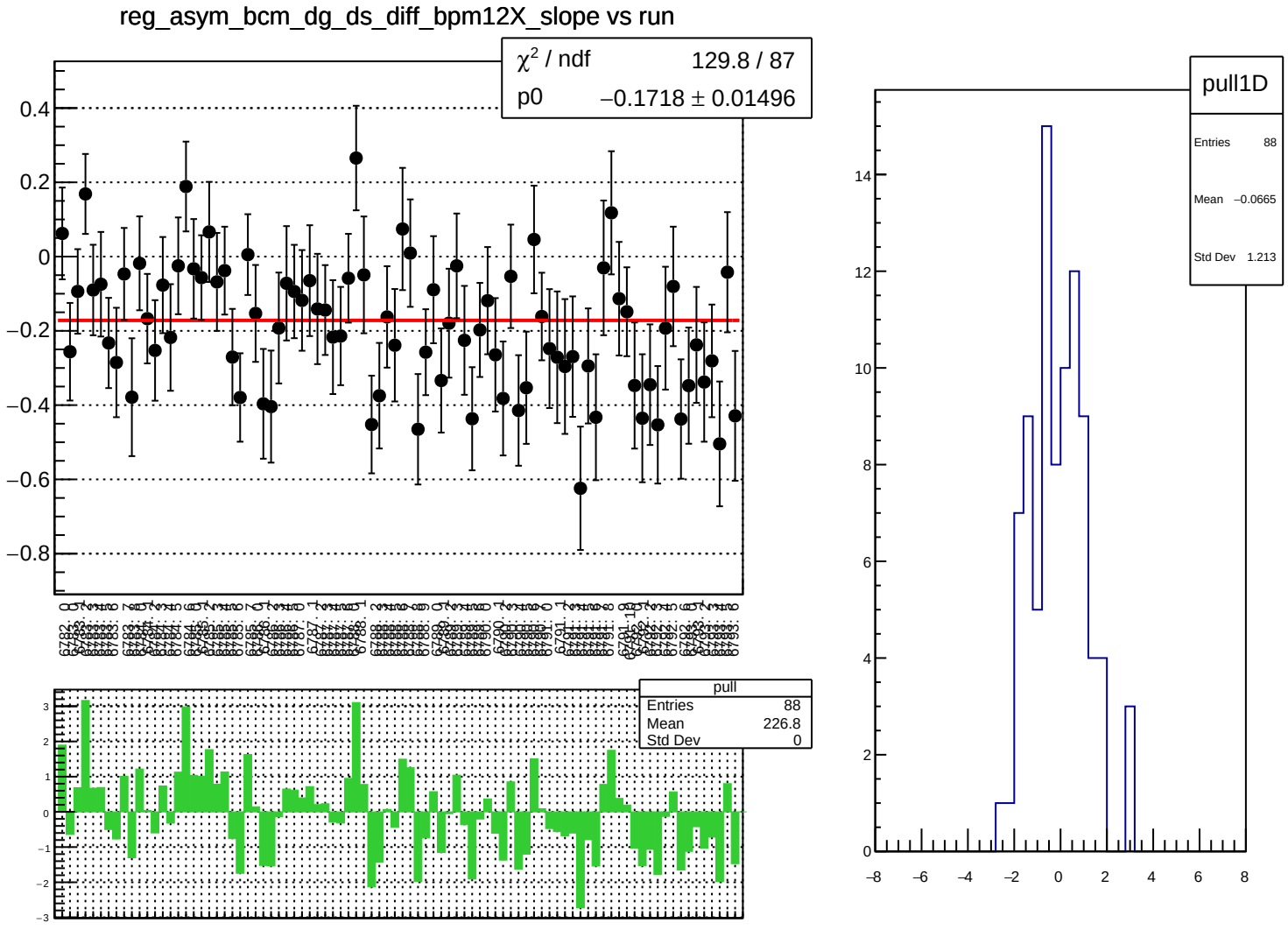

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 92.54 / 87
p0 2.826 ± 0.1683
pull
Entries 88
Mean 1377
Std Dev 0
pull1D
Entries 88
Mean 0.004619
Std Dev 1.025

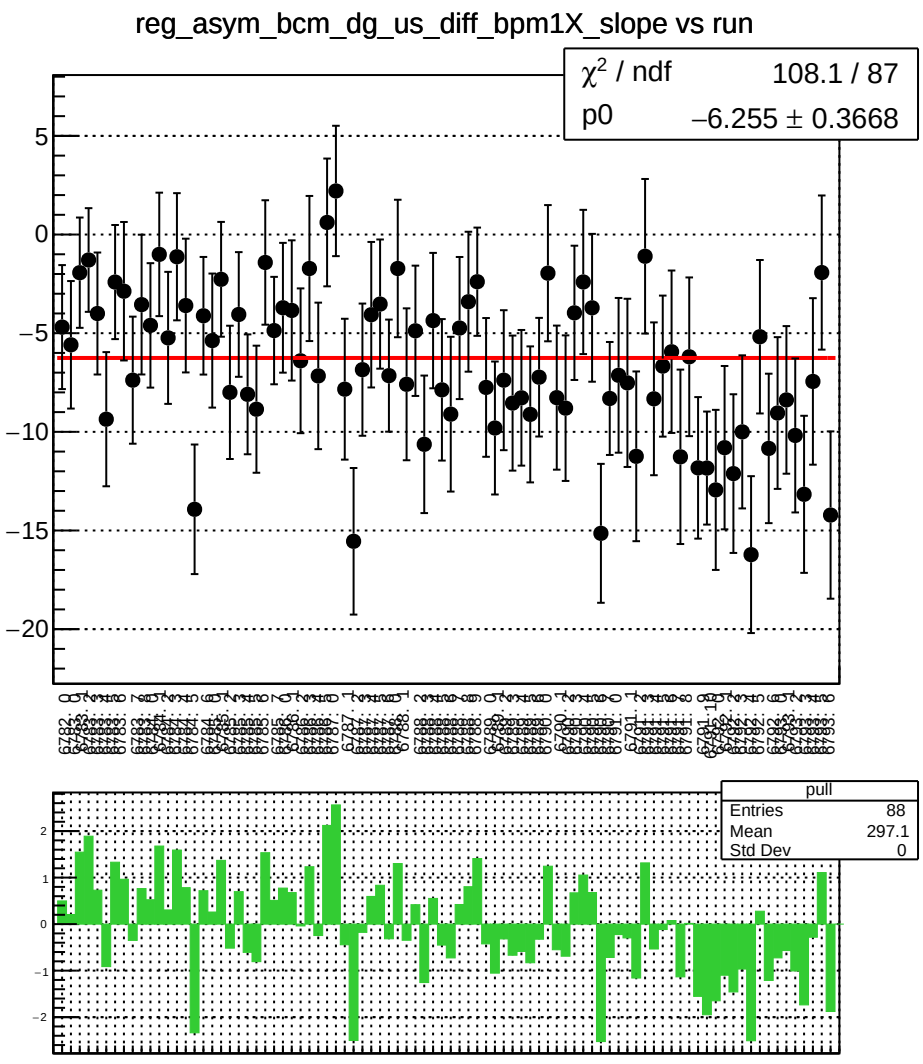

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 111 / 87
p0 5.908 ± 0.3377
pull
Entries 88
Mean 292.3
Std Dev 0

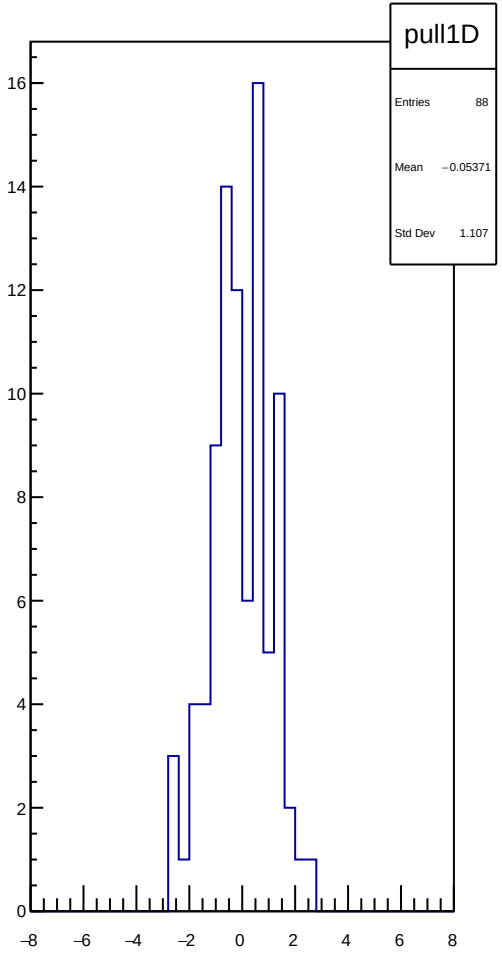

pull1D
Entries 88
Mean 0.05491
Std Dev 1.122

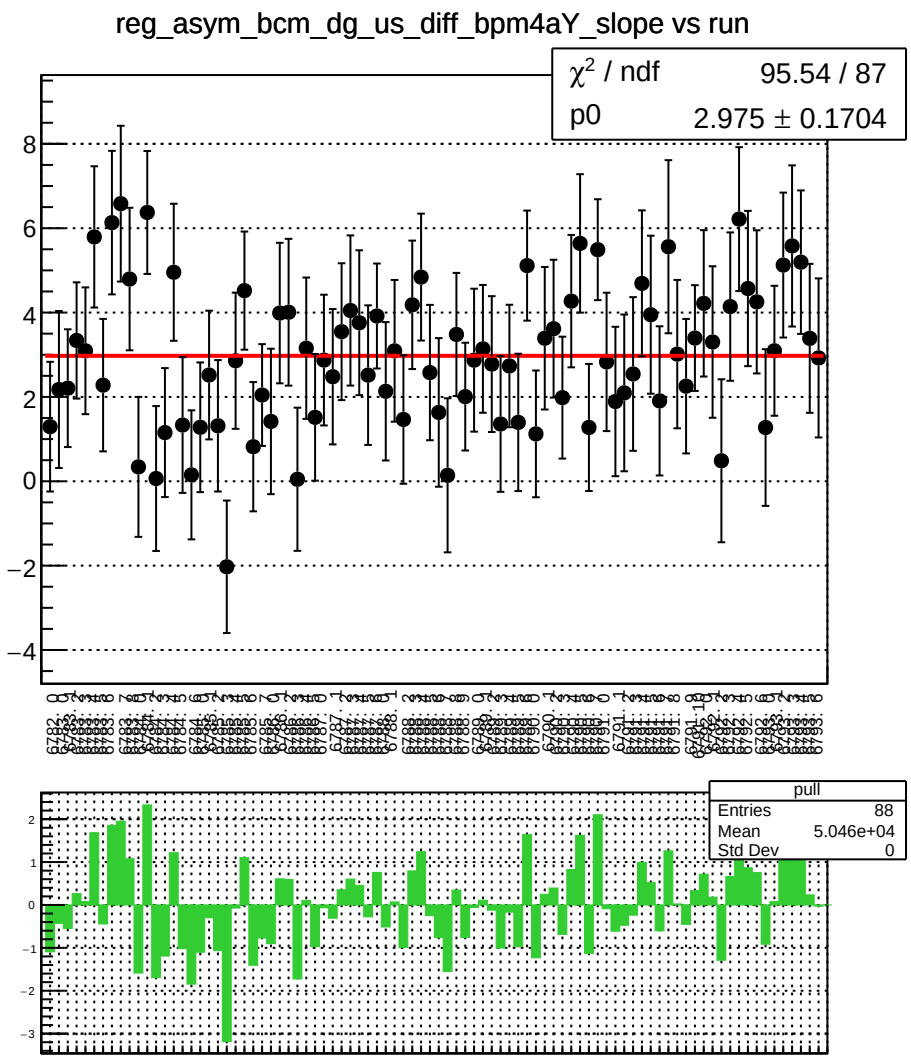

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 100.5 / 87
p0 −4.512 ± 0.2295
pull
Entries 88
Mean 392.3
Std Dev 0

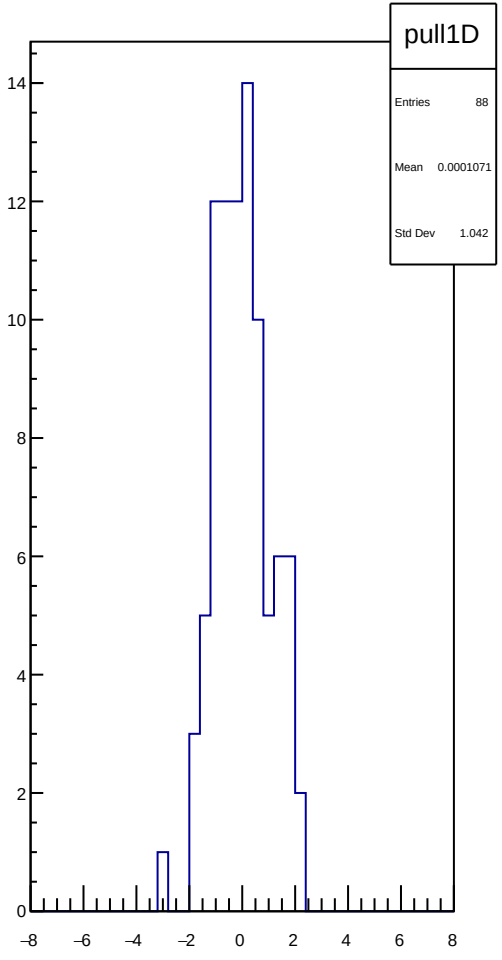

pull1D
Entries 88
Mean −0.024
Std Dev 1.069

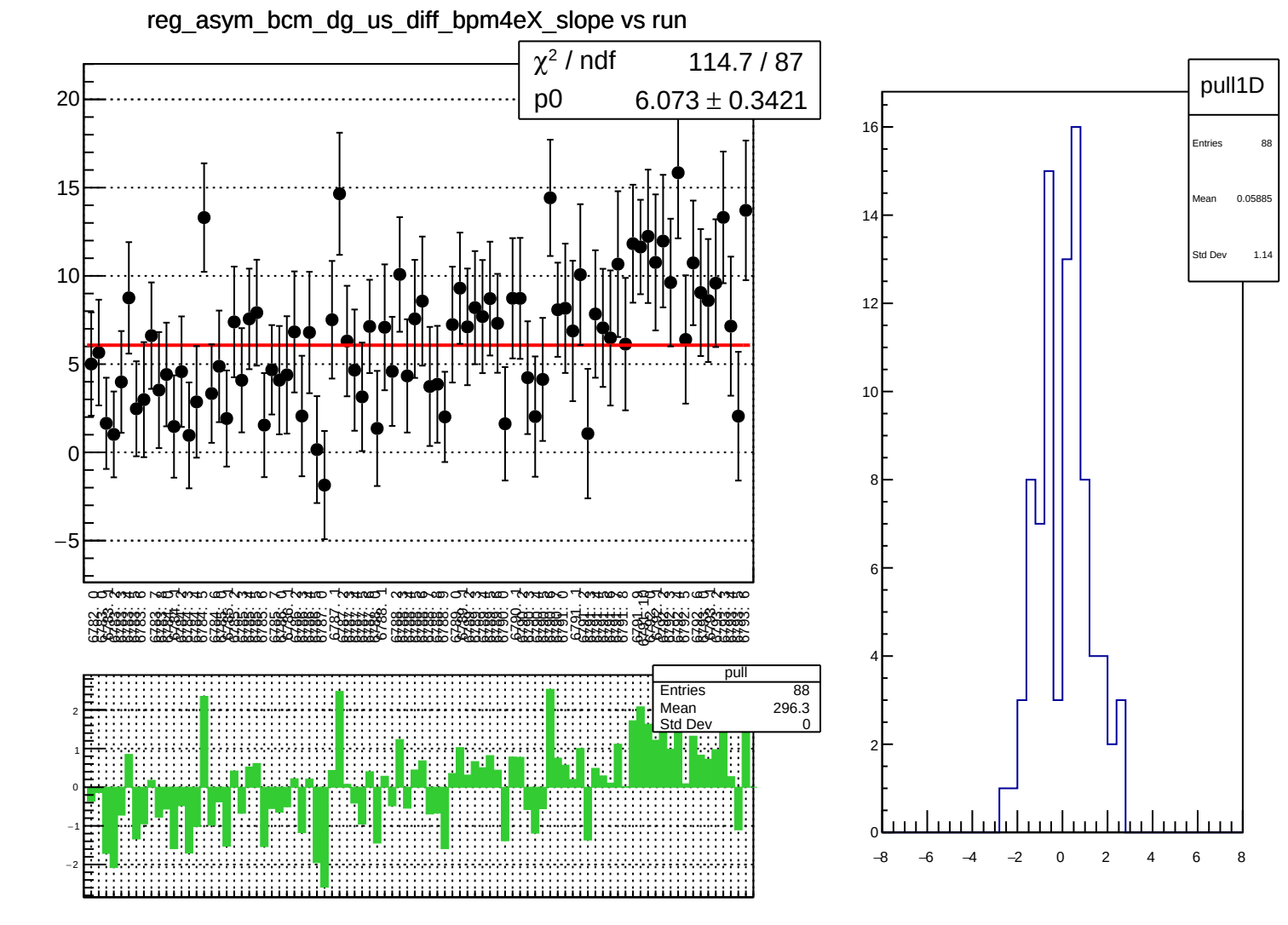

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 129.8 / 87
p0 −0.1718 ± 0.01496
pull
Entries 88
Mean 226.8
Std Dev 0
pull1D
Entries 88
Mean −0.0665
Std Dev 1.213

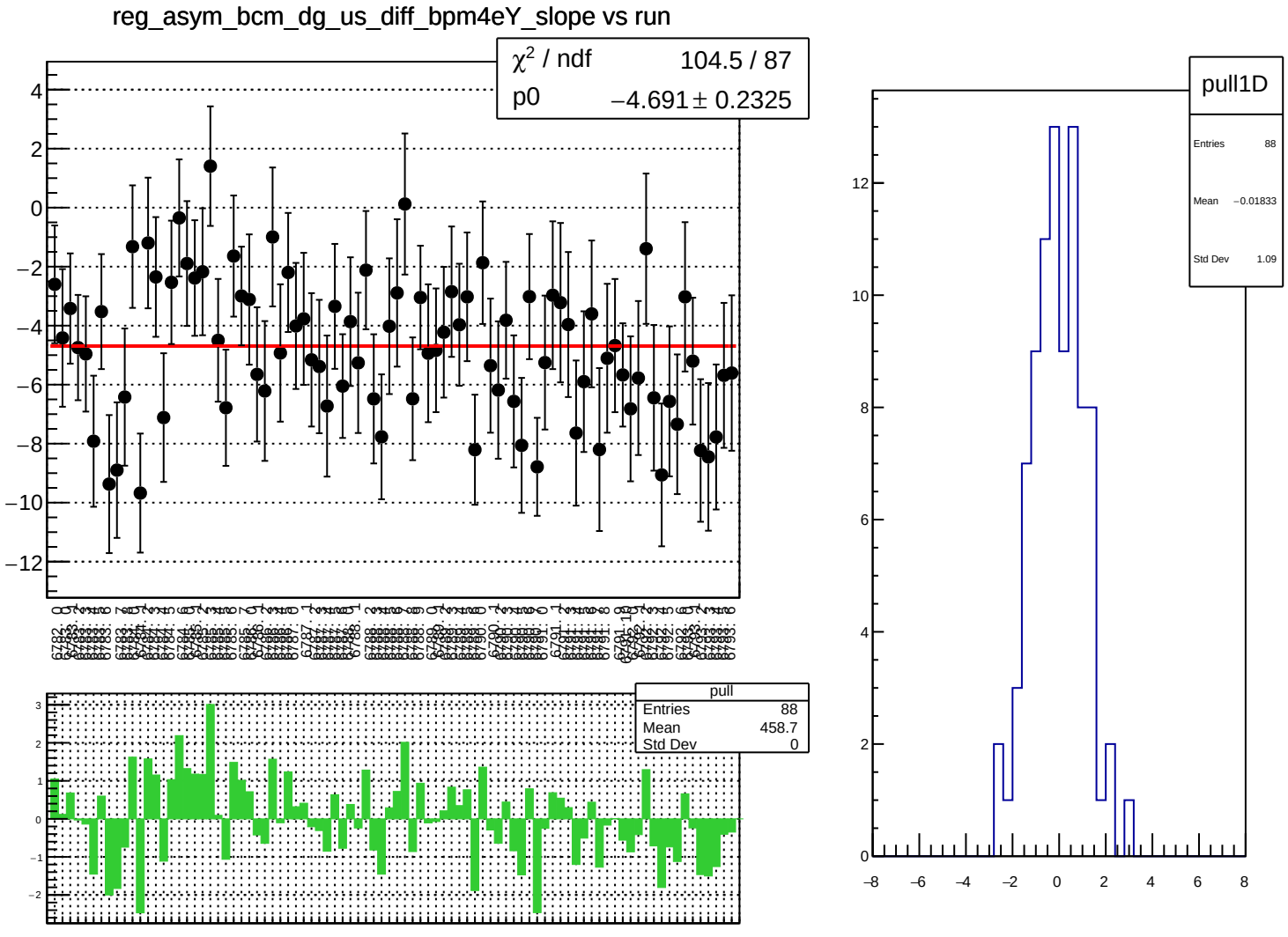

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 87
p0 −6.255 ± 0.3668
pull
Entries 88
Mean 297.1
Std Dev 0

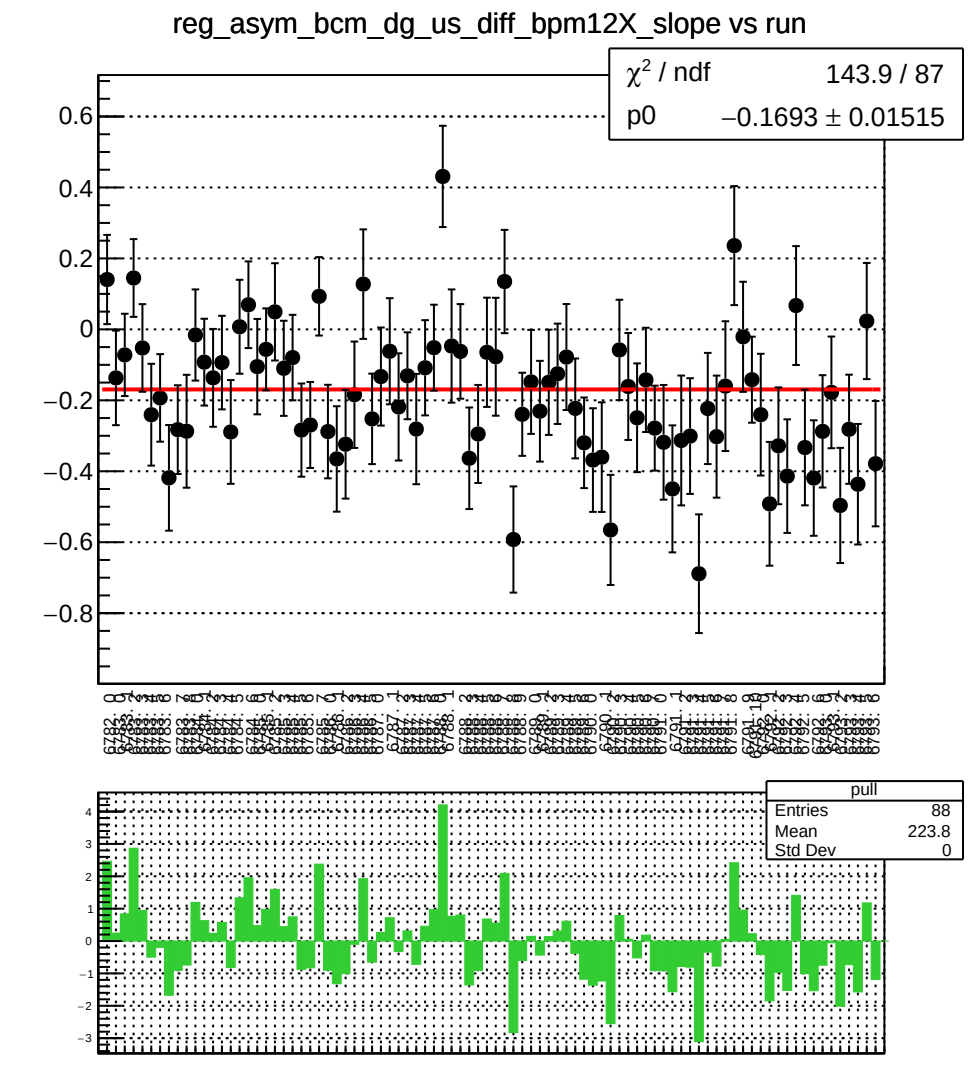

pull1D
Entries 88
Mean −0.05371
Std Dev 1.107

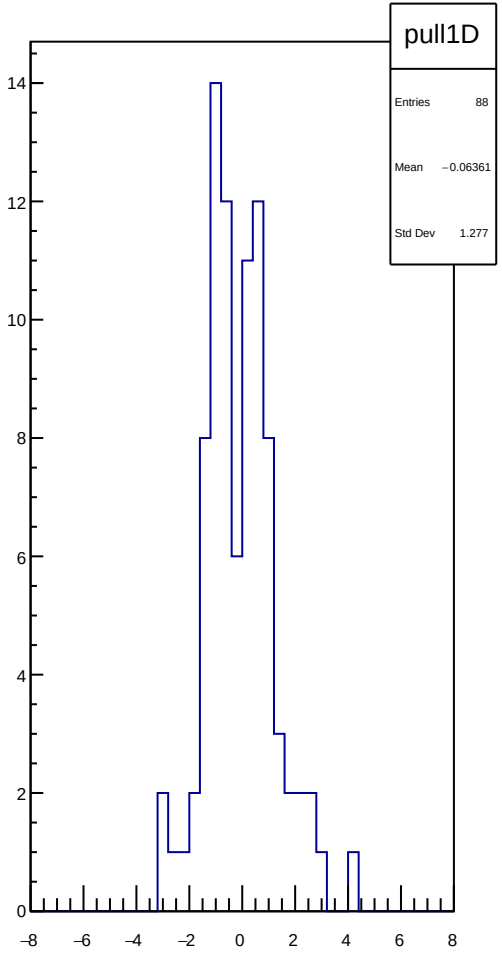

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 95.54 / 87
p0 2.975 ± 0.1704
pull
Entries 88
Mean 5.046e+04
Std Dev 0

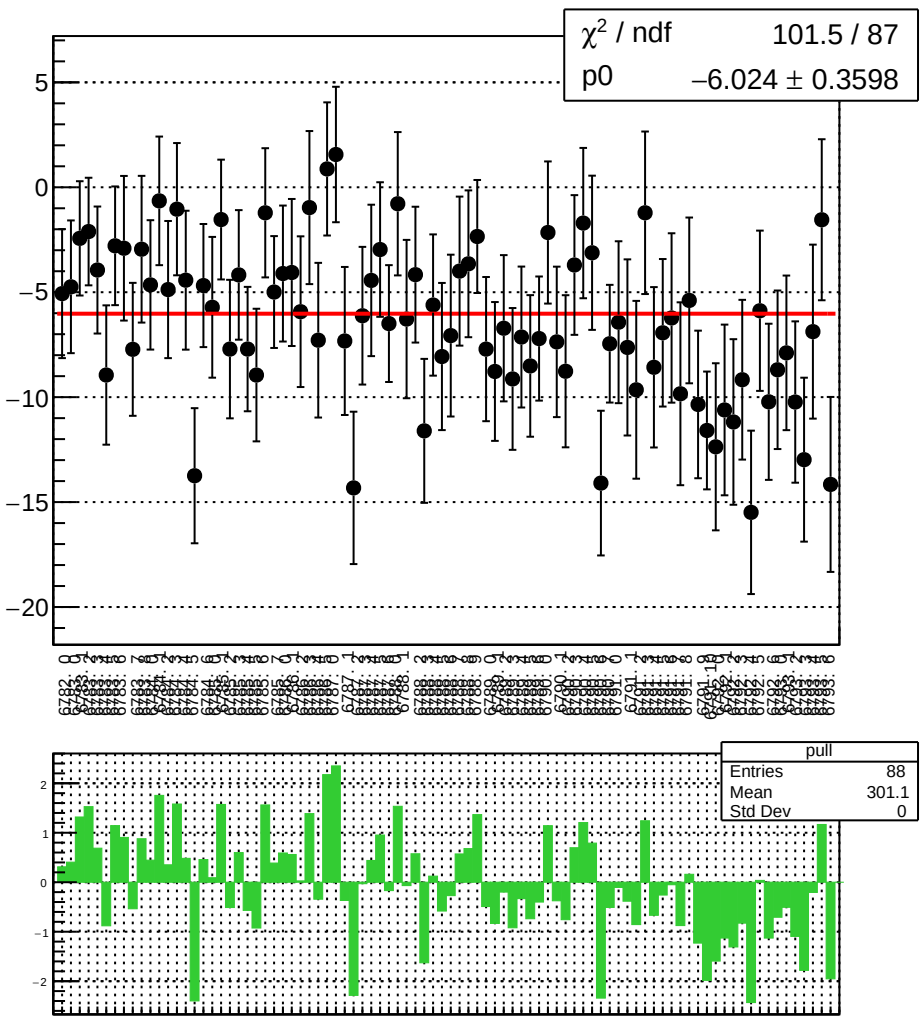

pull1D
Entries 88
Mean 0.0001071
Std Dev 1.042

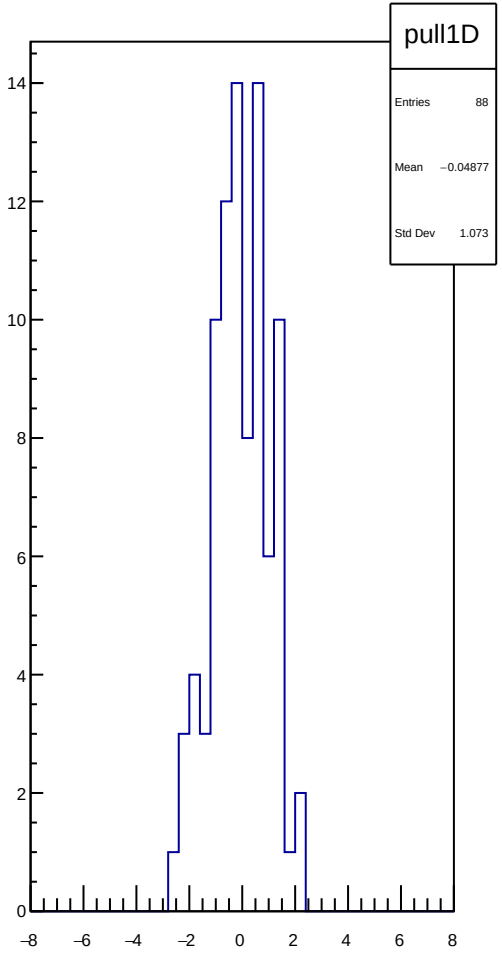

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 114.7 / 87
p0 6.073 ± 0.3421
pull
Entries 88
Mean 296.3
Std Dev 0
pull1D
Entries 88
Mean 0.05885
Std Dev 1.14

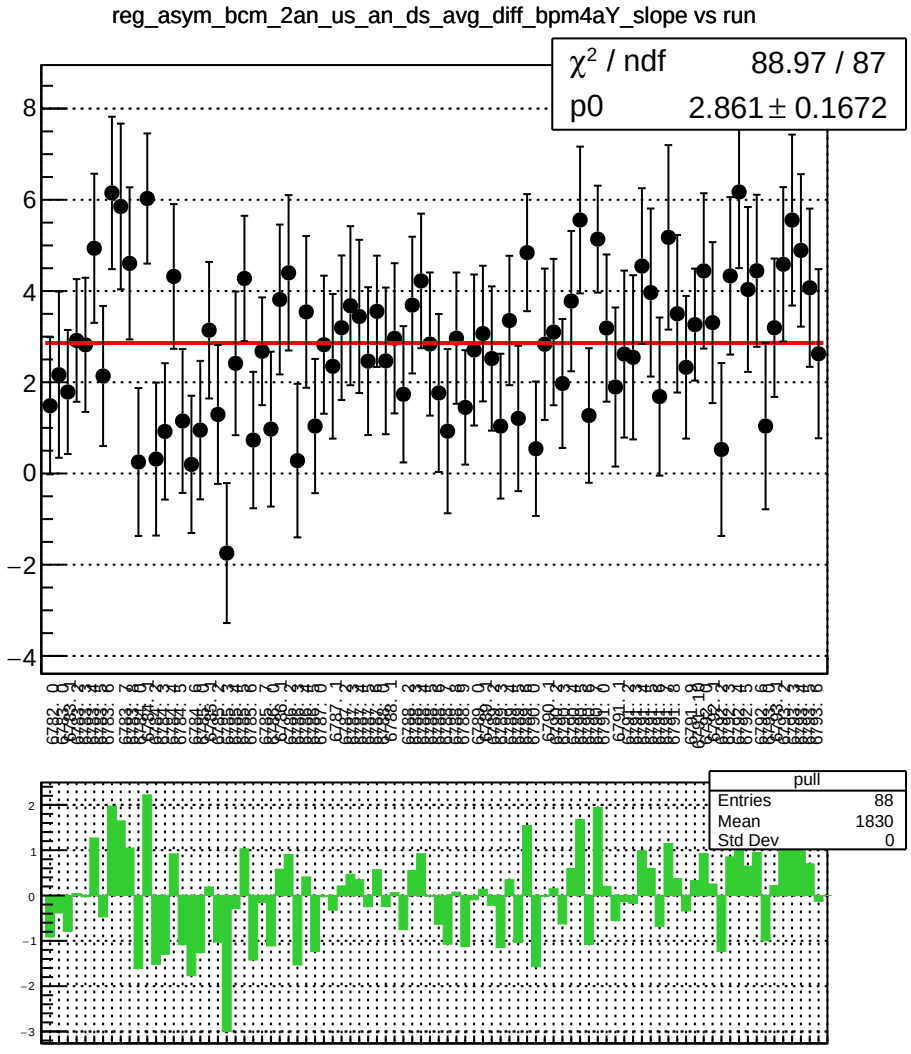

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 104.5 / 87
p0 −4.691 ± 0.2325
pull
Entries 88
Mean 458.7
Std Dev 0
pull1D
Entries 88
Mean −0.01833
Std Dev 1.09

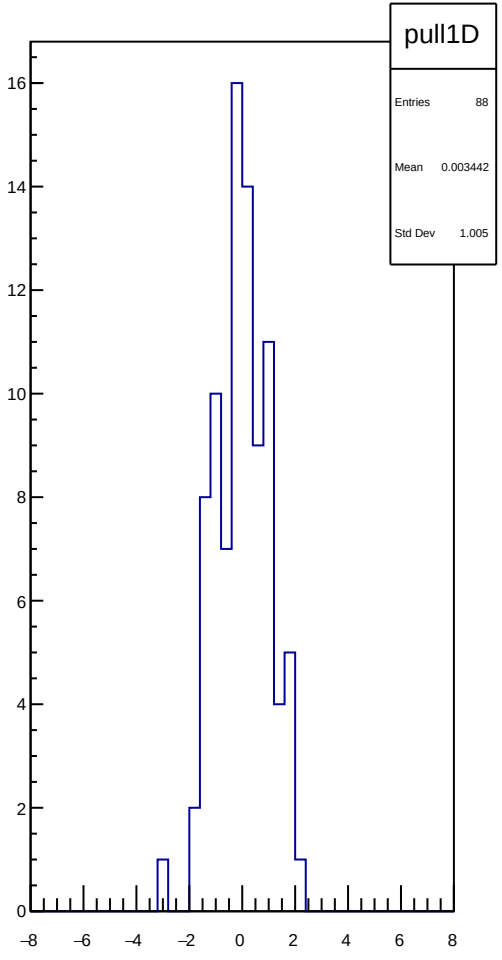

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 143.9 / 87
p0 −0.1693 ± 0.01515
pull
Entries 88
Mean 223.8
Std Dev 0

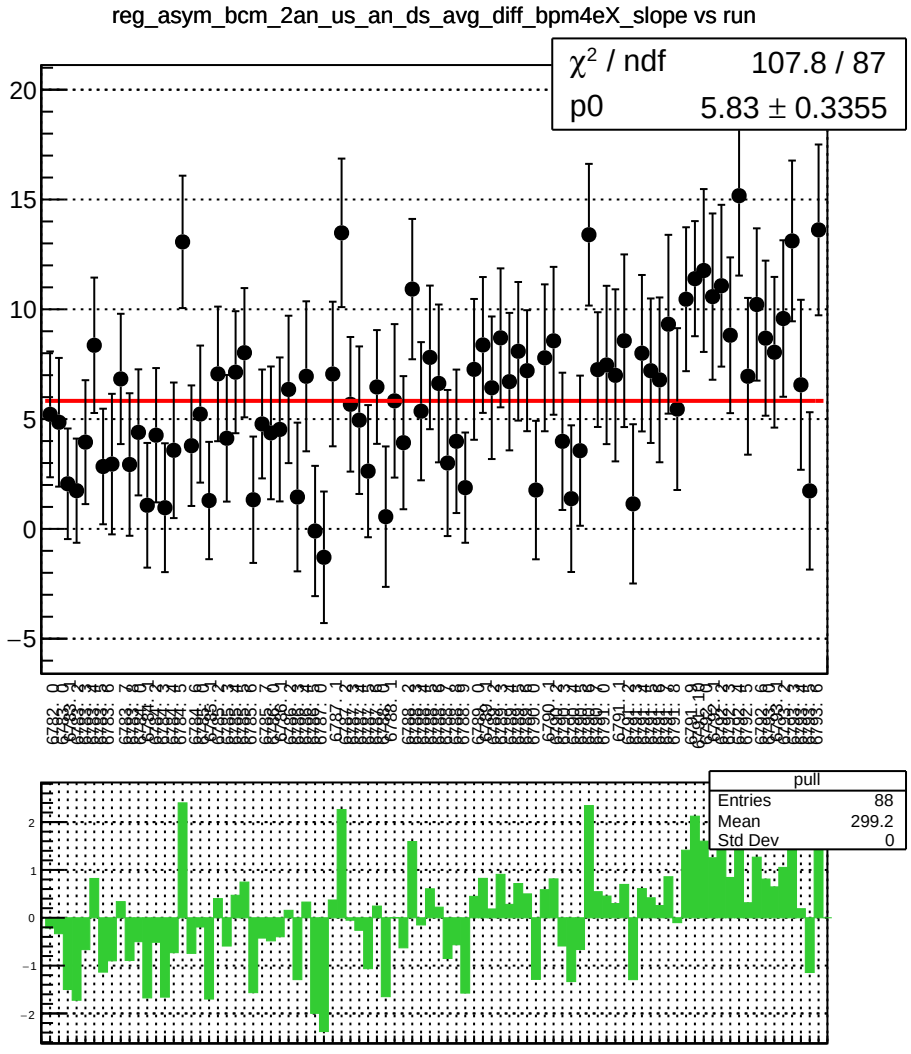

pull1D
Entries 88
Mean −0.06361
Std Dev 1.277

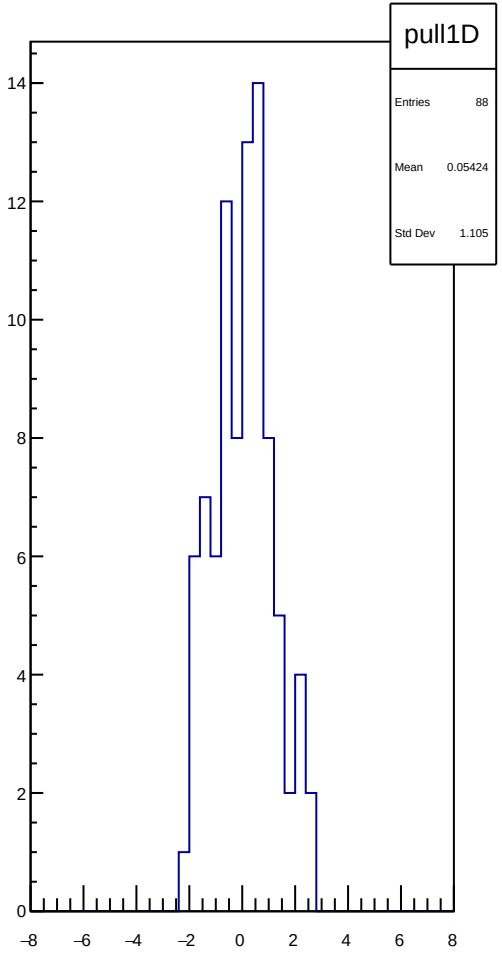

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 101.5 / 87
p0 −6.024 ± 0.3598
pull
Entries 88
Mean 301.1
Std Dev 0

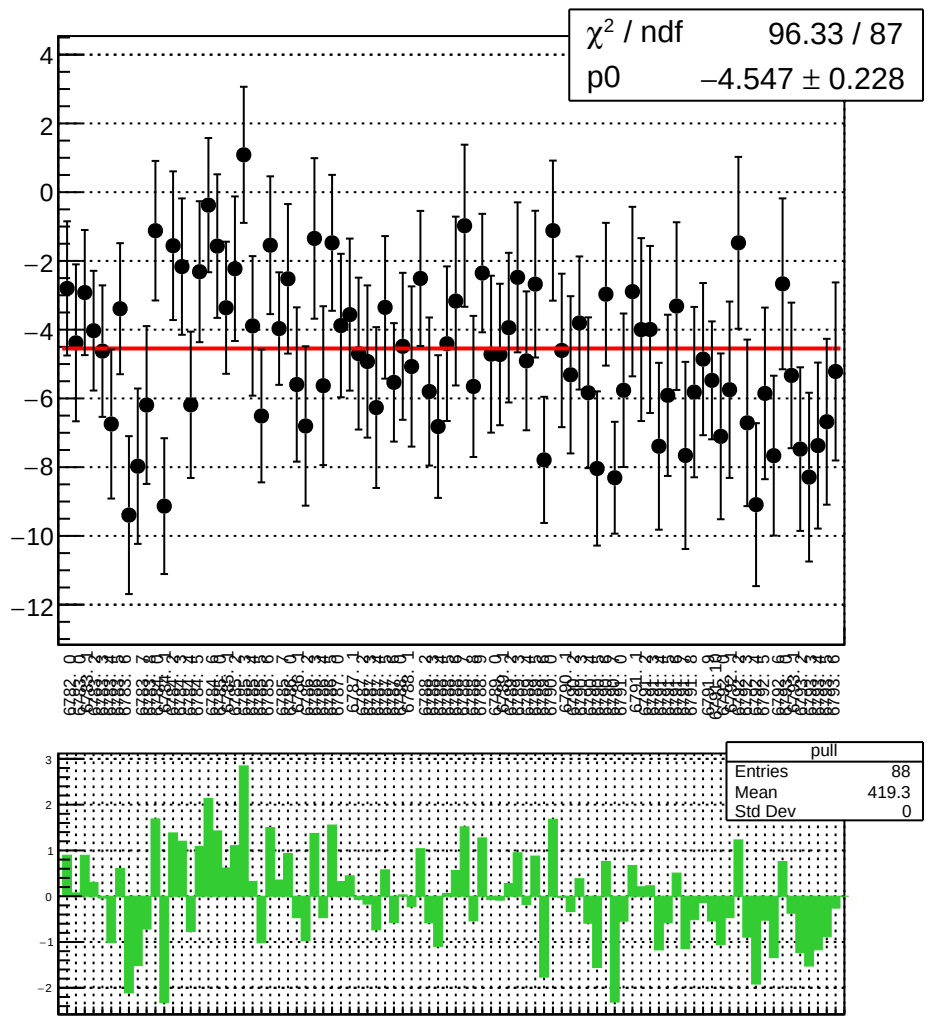

pull1D
Entries 88
Mean −0.04877
Std Dev 1.073

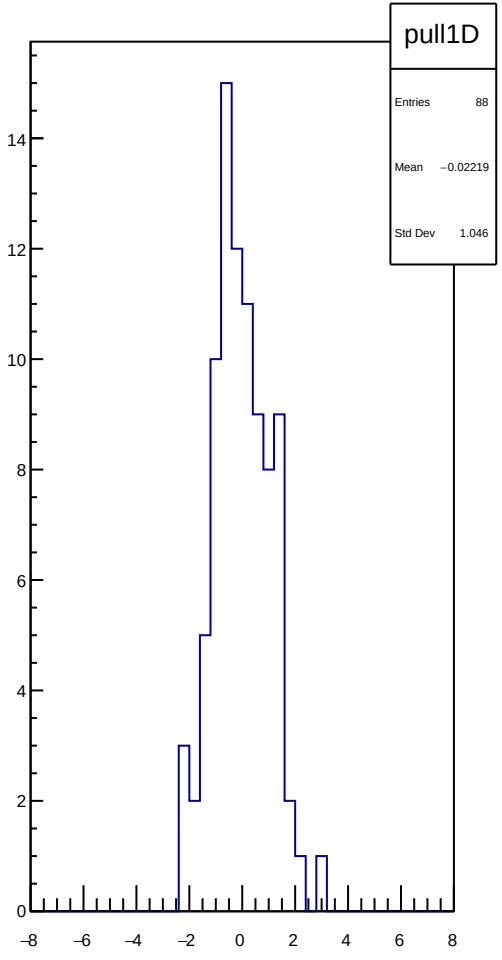

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.97 / 87
p0 2.861 ± 0.1672
pull
Entries 88
Mean 1830
Std Dev 0

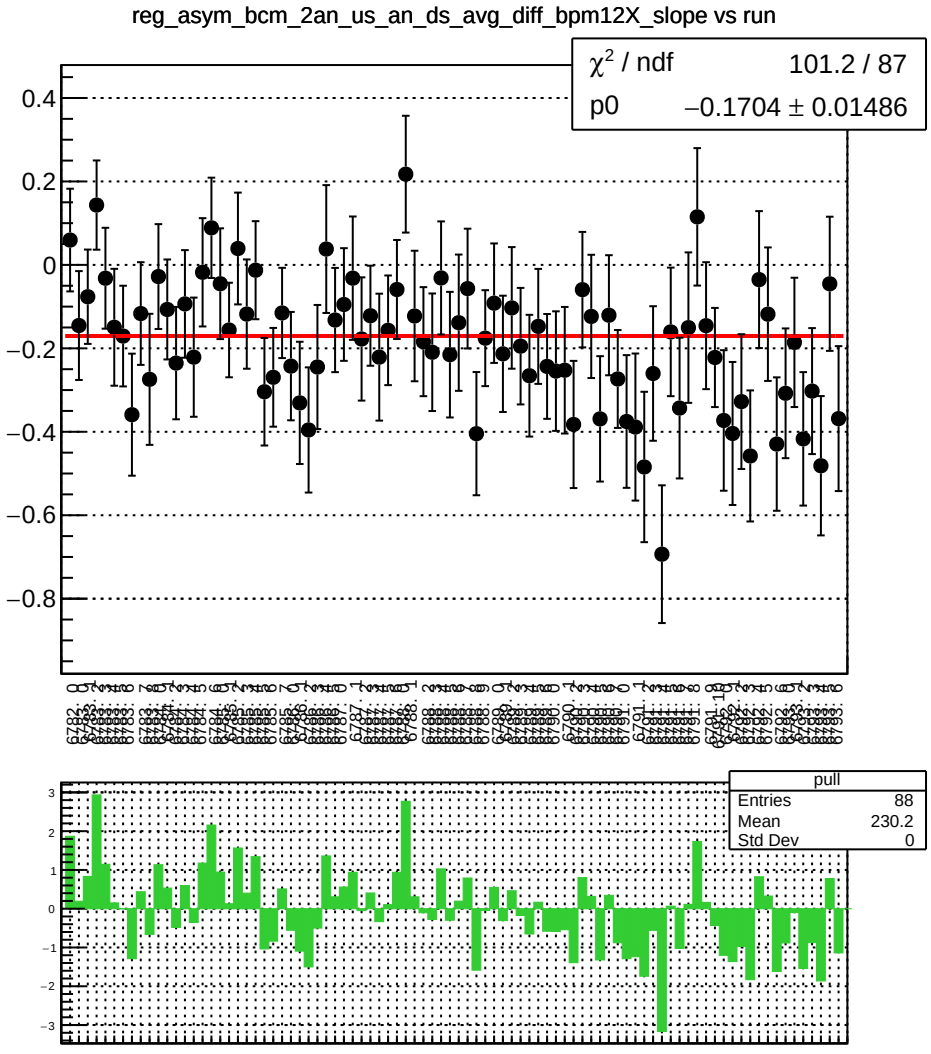

pull1D
Entries 88
Mean 0.003442
Std Dev 1.005

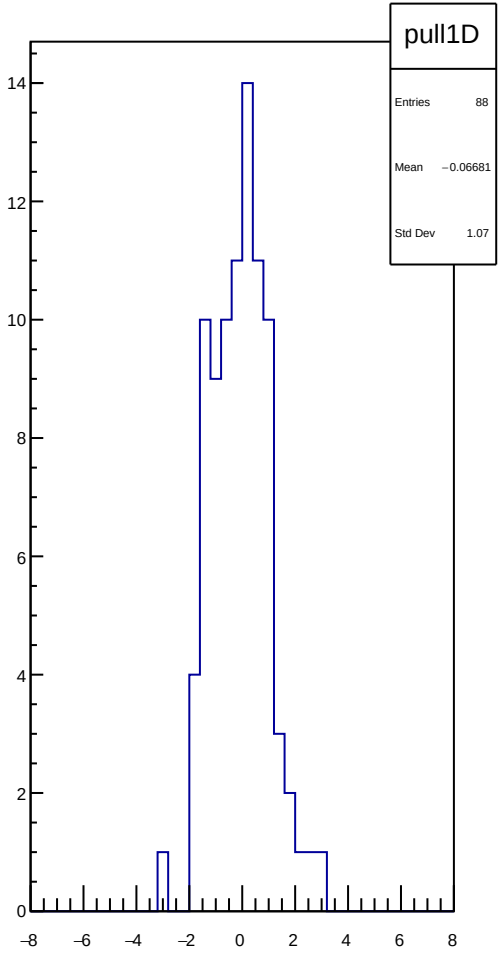

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.8 / 87
p0 5.83 ± 0.3355
pull
Entries 88
Mean 299.2
Std Dev 0

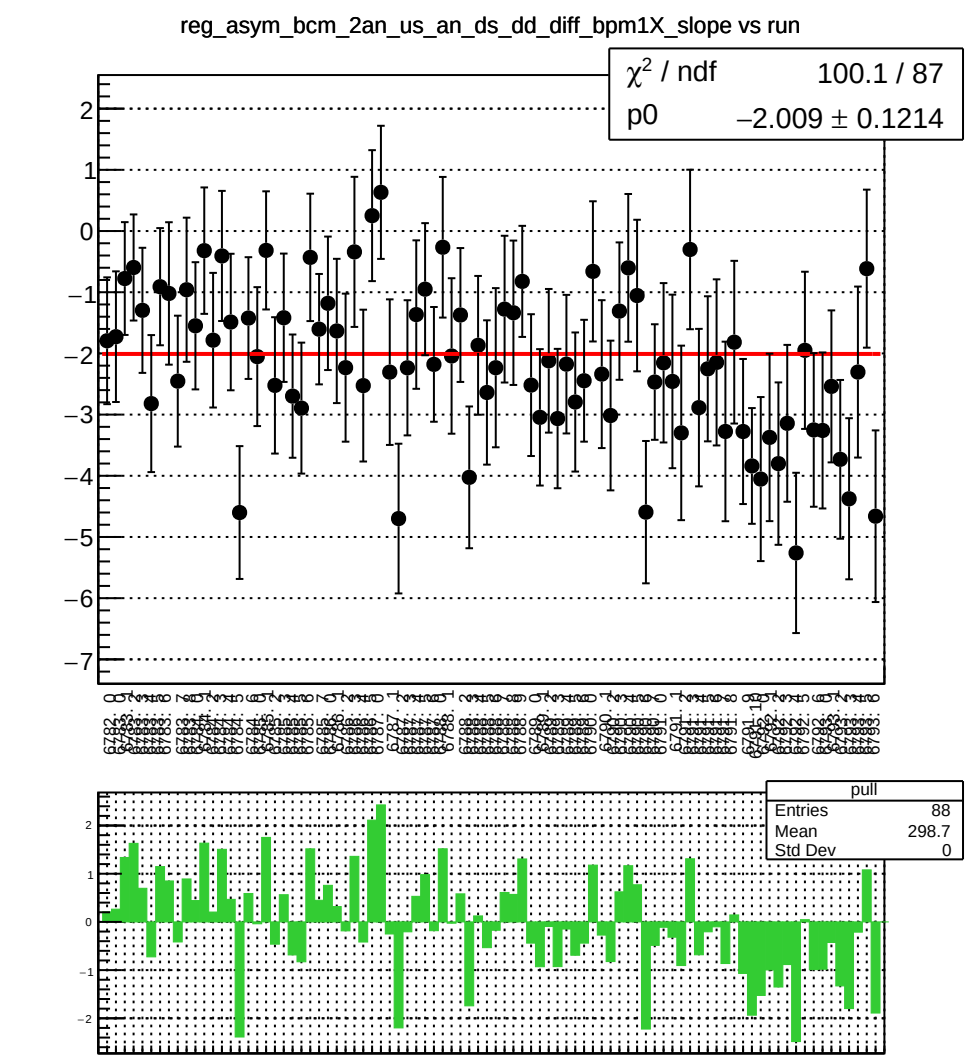

pull1D
Entries 88
Mean 0.05424
Std Dev 1.105

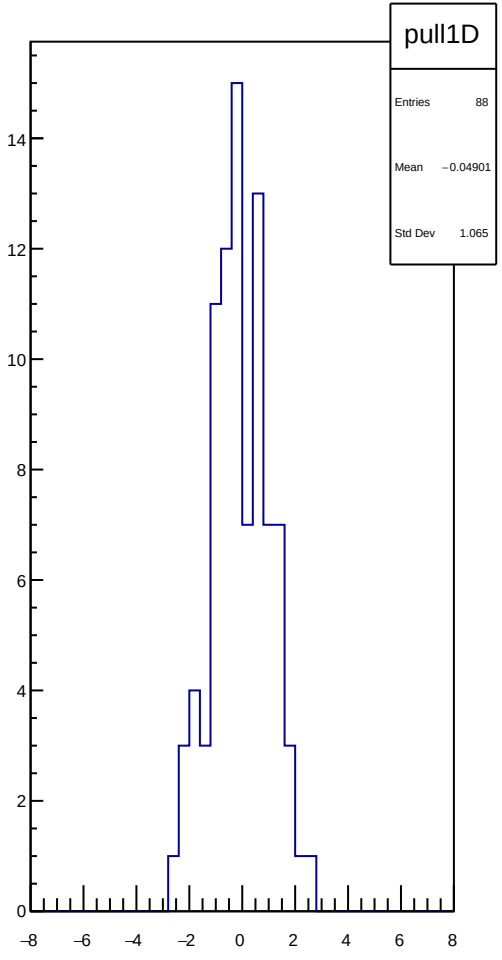

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.33 / 87
p0 −4.547 ± 0.228
pull
Entries 88
Mean 419.3
Std Dev 0

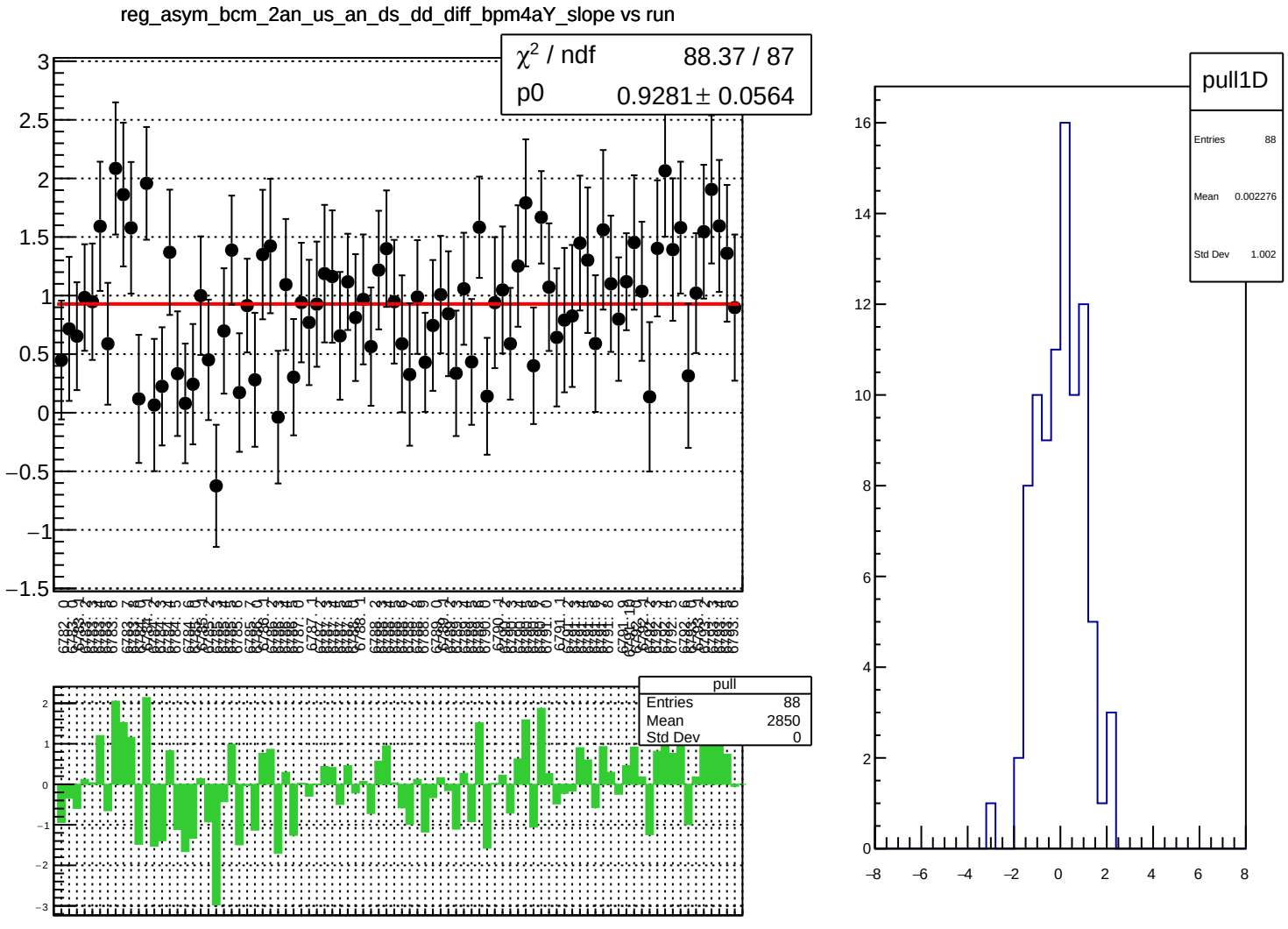

pull1D
Entries 88
Mean −0.02219
Std Dev 1.046

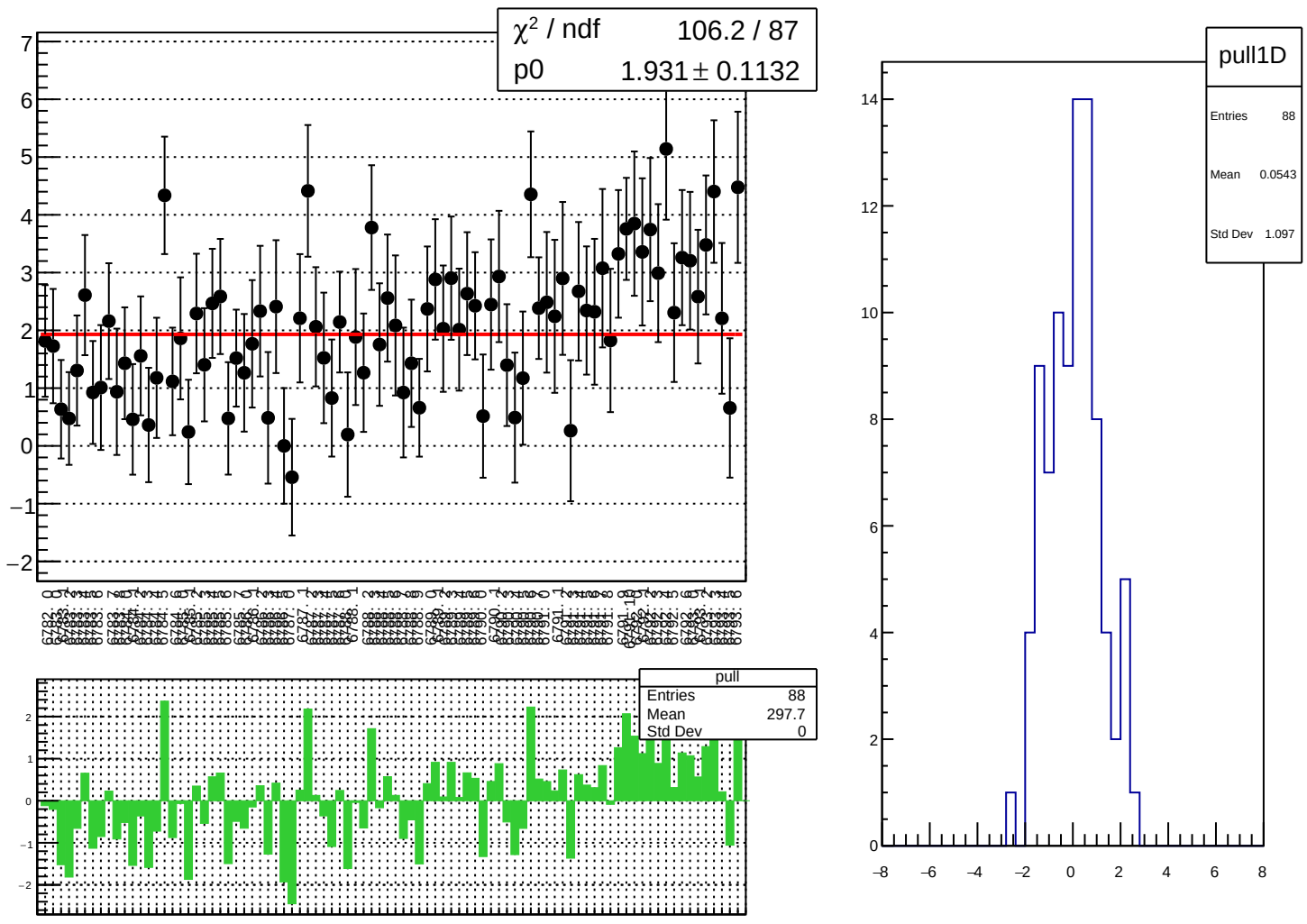

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 101.2 / 87
p0 −0.1704 ± 0.01486
pull
Entries 88
Mean 230.2
Std Dev 0

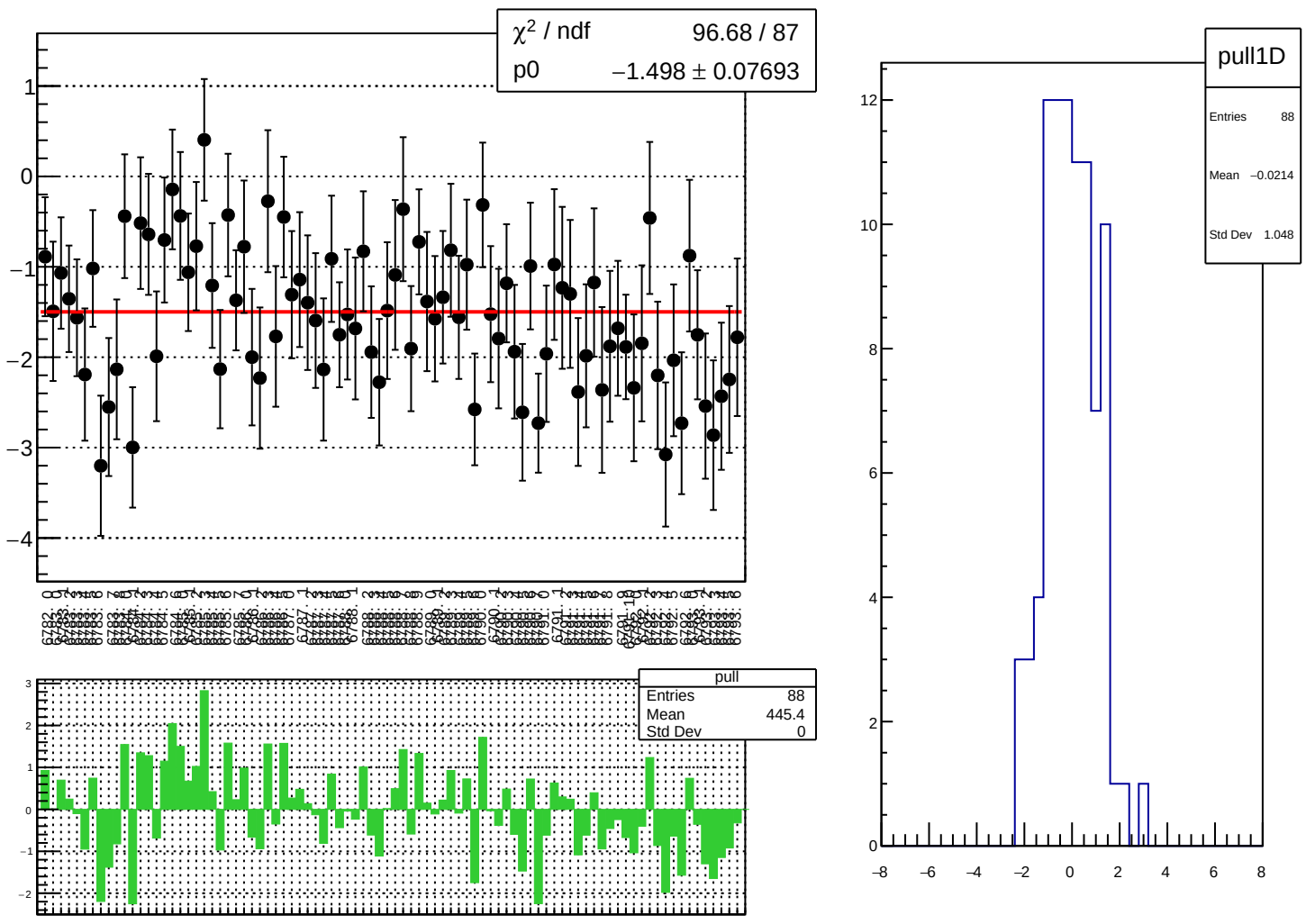

pull1D
Entries 88
Mean −0.06681
Std Dev 1.07

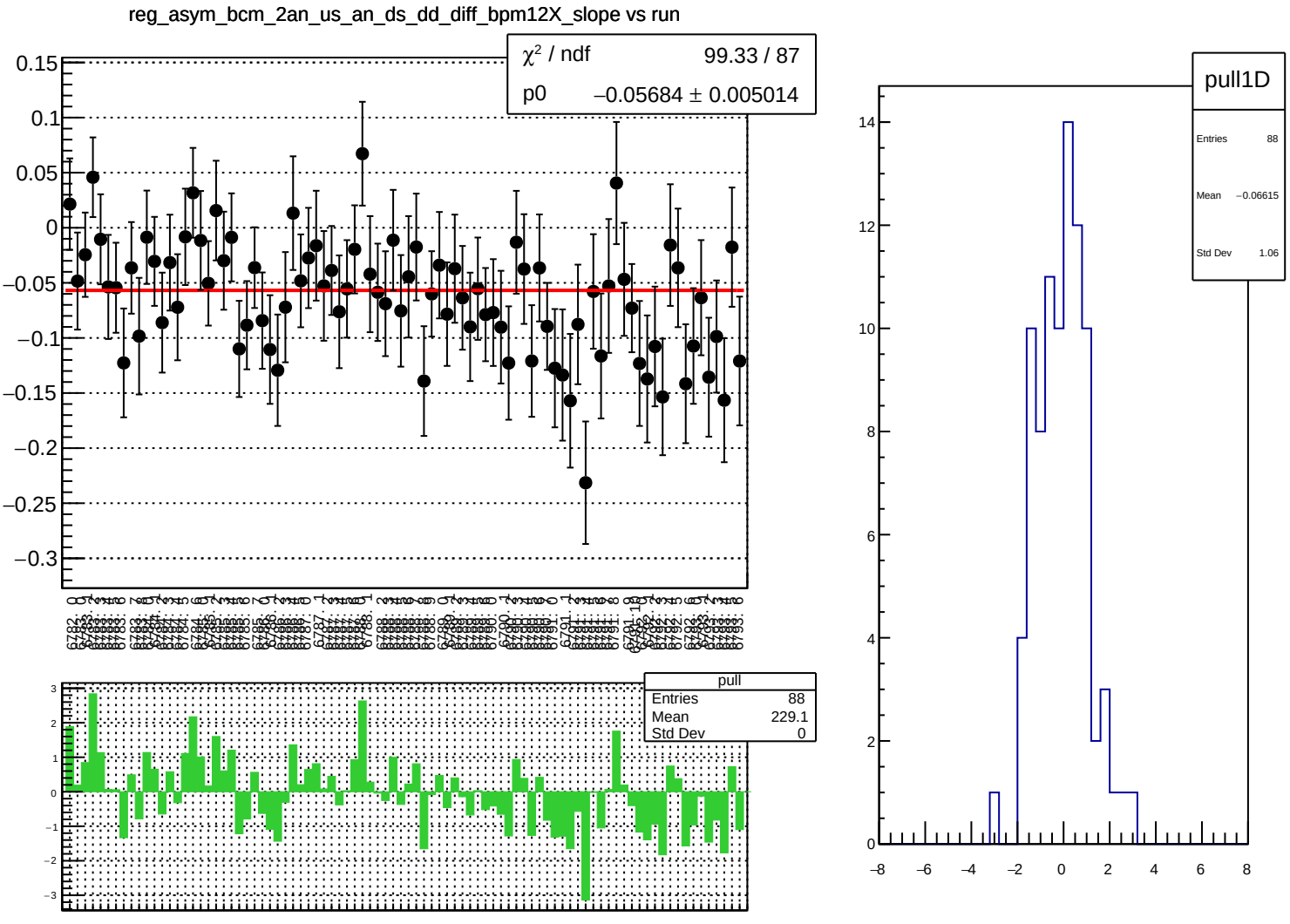

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 100.1 / 87
p0 −2.009 ± 0.1214
pull
Entries 88
Mean 298.7
Std Dev 0

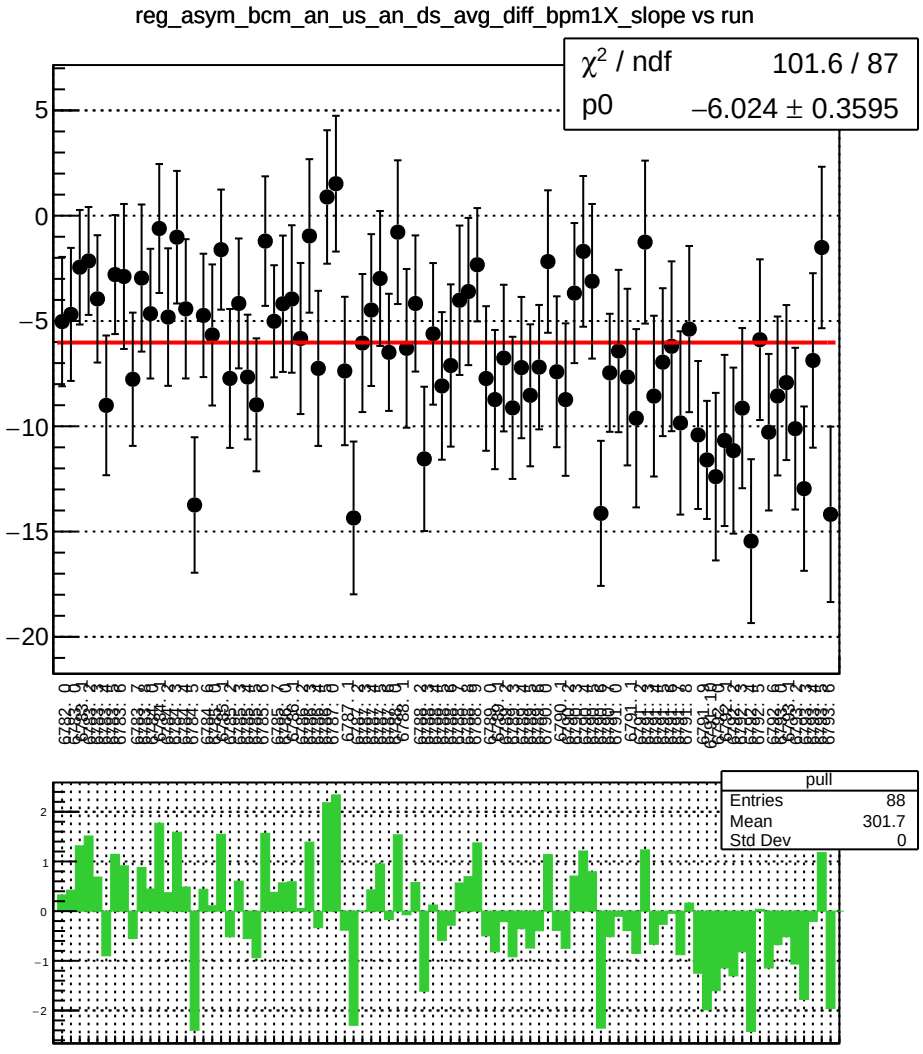

pull1D
Entries 88
Mean −0.04901
Std Dev 1.065

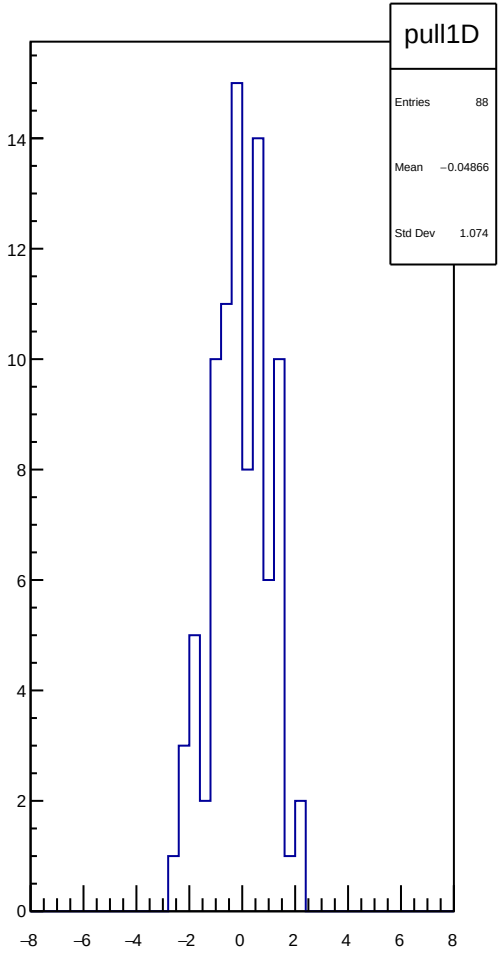

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.37 / 87
p0 0.9281± 0.0564
pull
Entries 88
Mean 2850
Std Dev 0
pull1D
Entries 88
Mean 0.002276
Std Dev 1.002

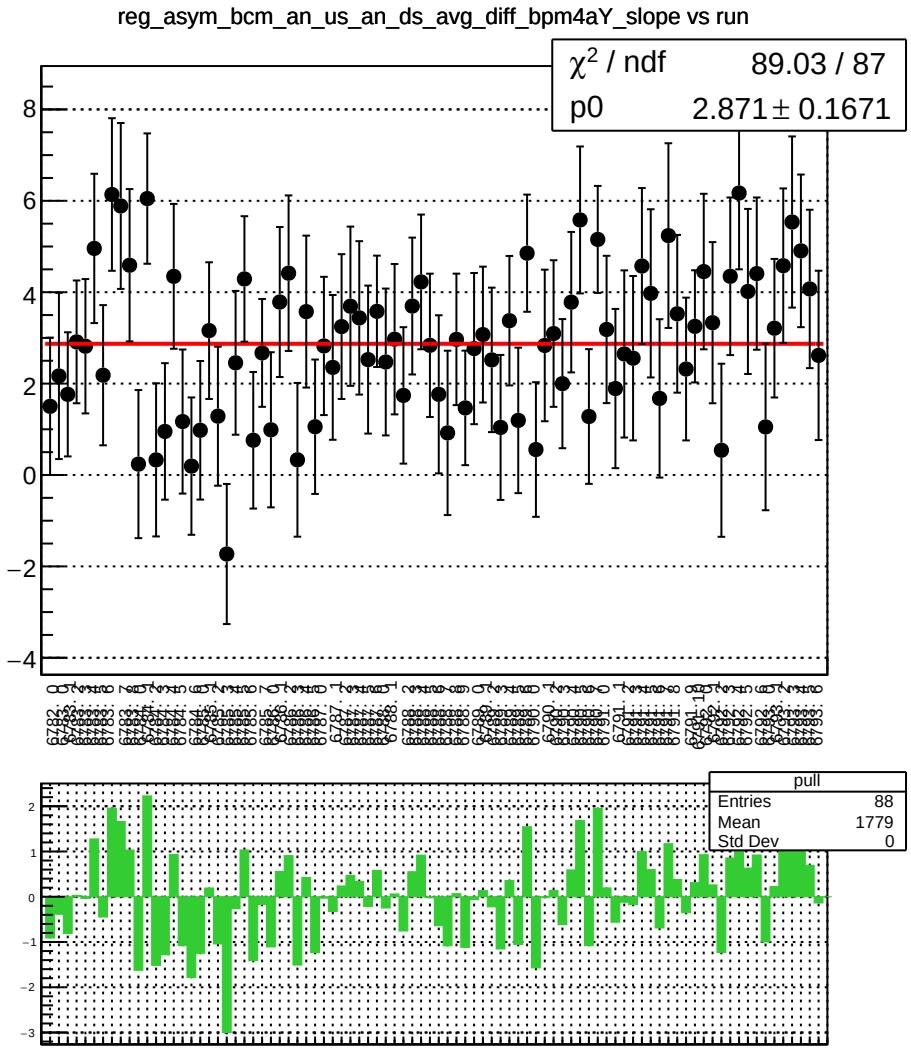

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.2 / 87
p0 1.931 ± 0.1132
pull
Entries 88
Mean 297.7
Std Dev 0
pull1D
Entries 88
Mean 0.0543
Std Dev 1.097

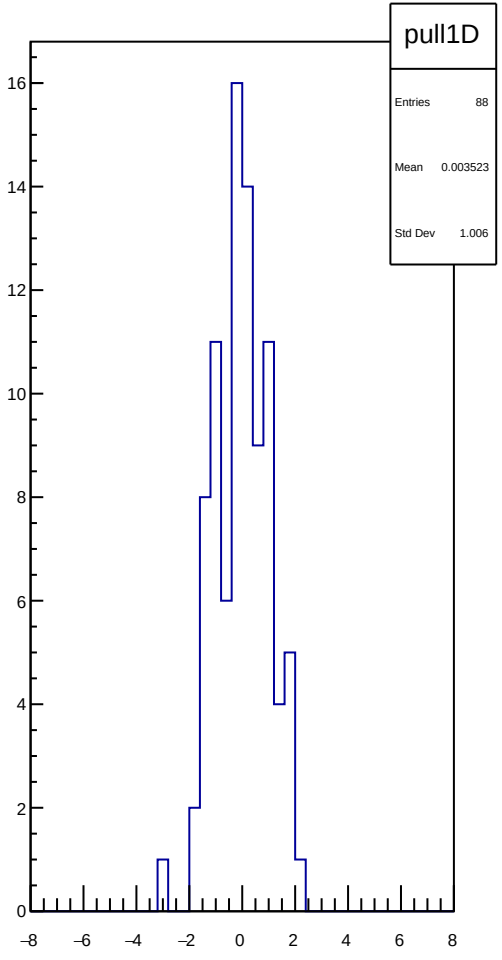

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 96.68 / 87
p0 −1.498 ± 0.07693
pull
Entries 88
Mean 445.4
Std Dev 0
pull1D
Entries 88
Mean −0.0214
Std Dev 1.048

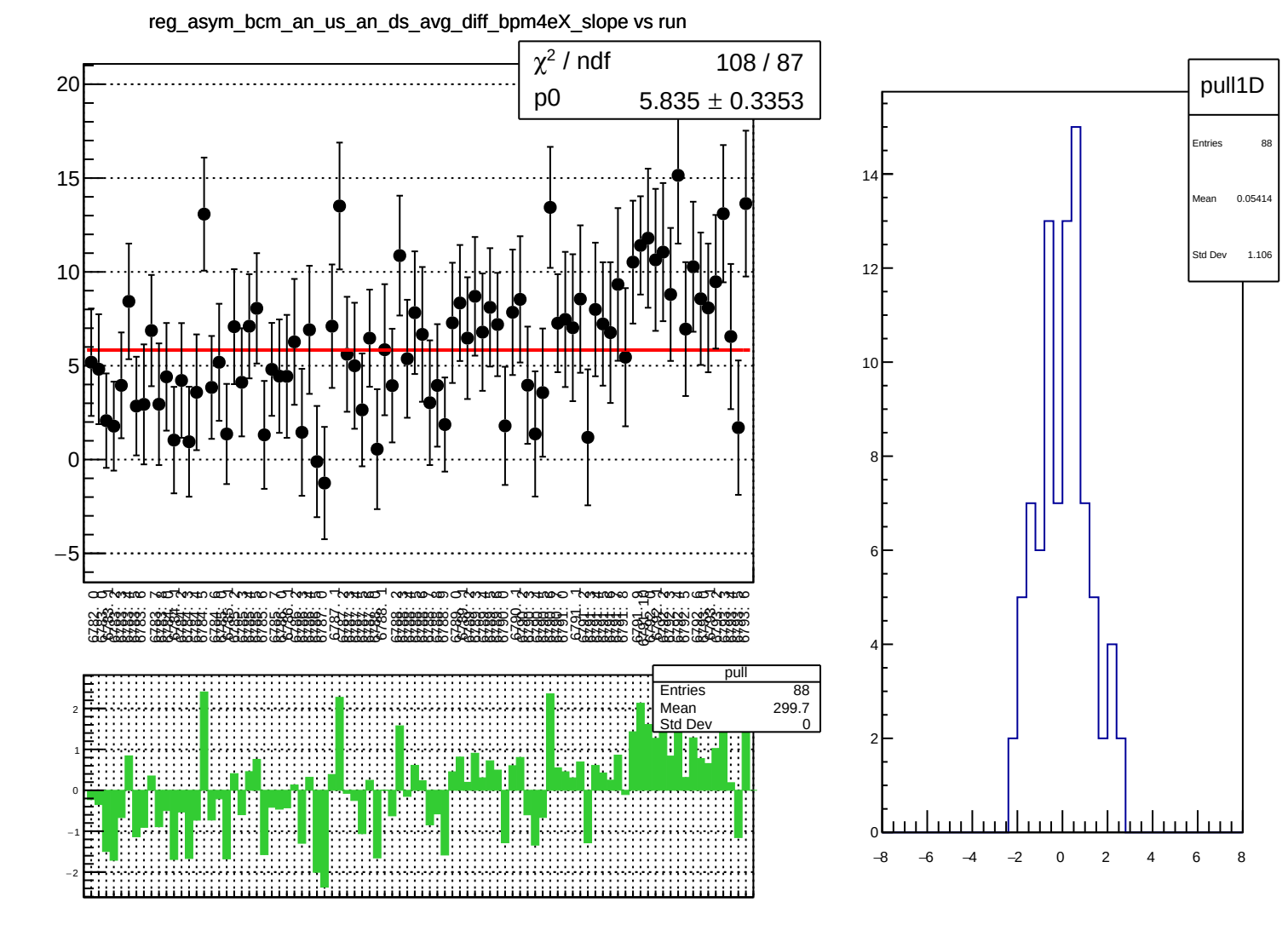

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 99.33 / 87
p0 −0.05684 ± 0.005014
pull
Entries 88
Mean 229.1
Std Dev 0
pull1D
Entries 88
Mean −0.06615
Std Dev 1.06

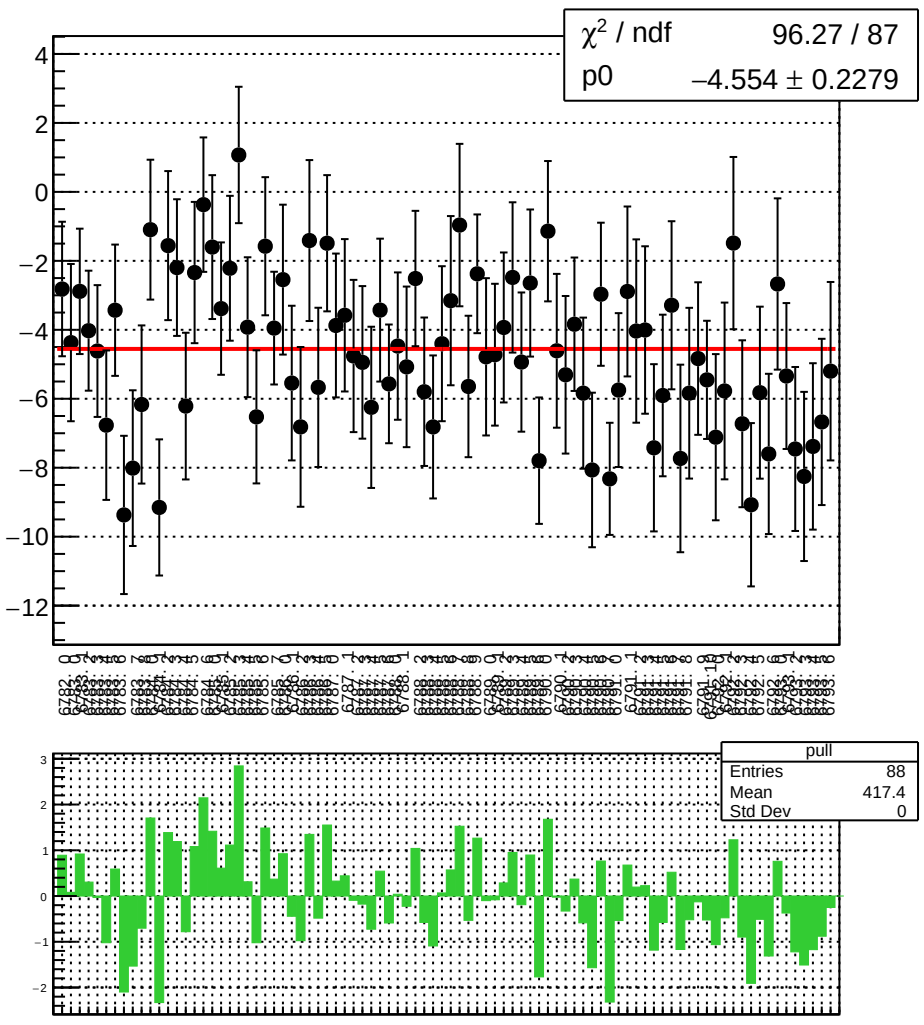

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 101.6 / 87
p0 −6.024 ± 0.3595
pull
Entries 88
Mean 301.7
Std Dev 0

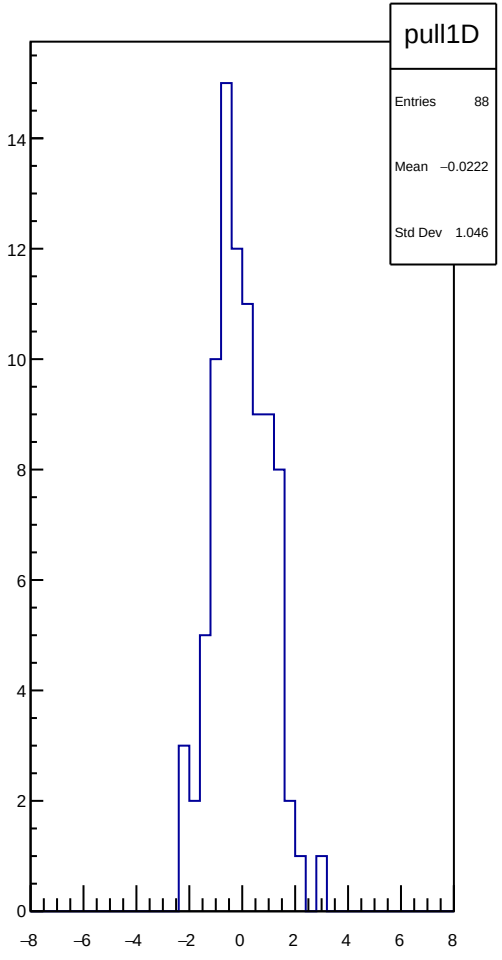

pull1D
Entries 88
Mean −0.04866
Std Dev 1.074

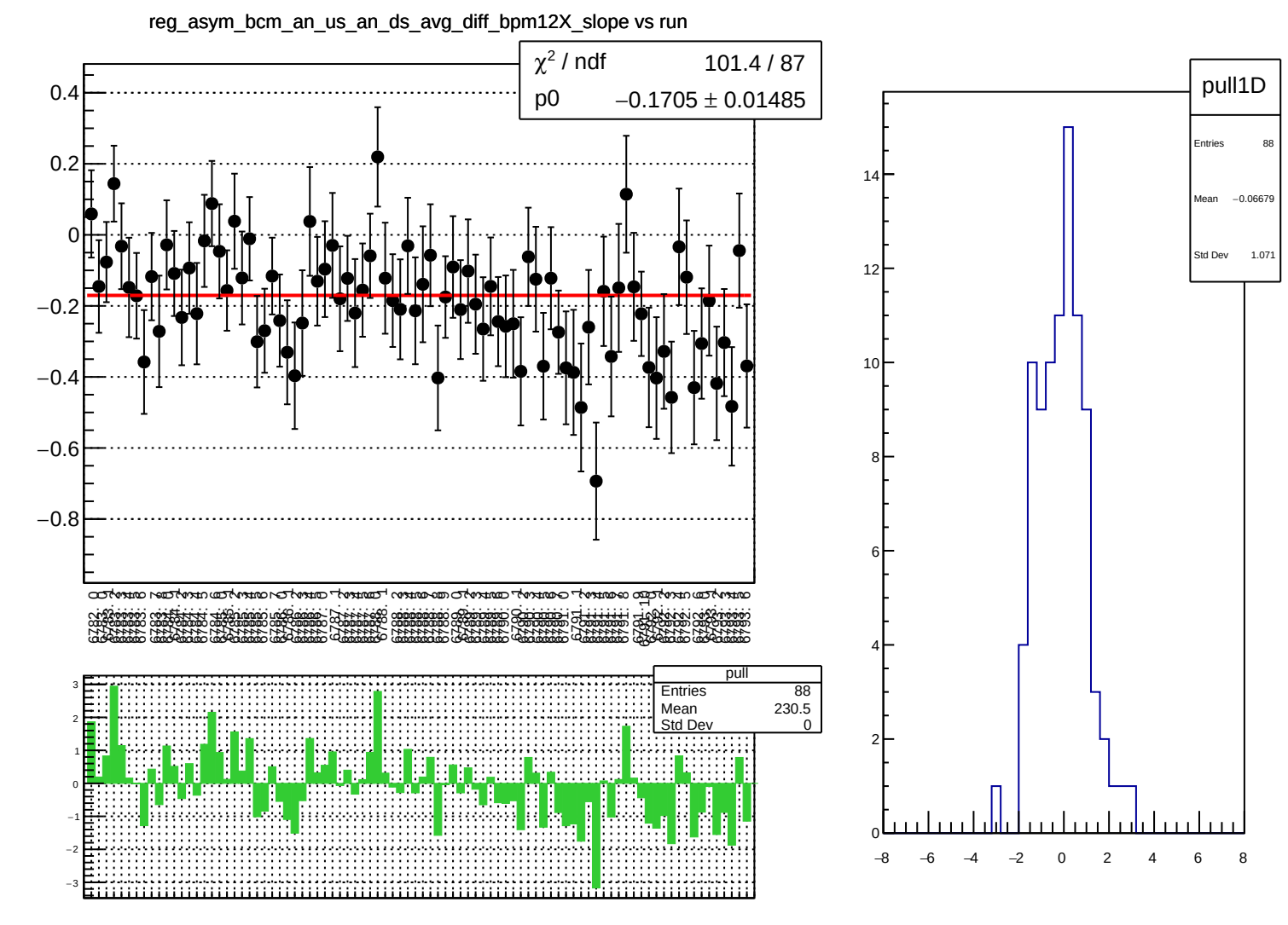

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.03 / 87
p0 2.871 ± 0.1671
pull
Entries 88
Mean 1779
Std Dev 0

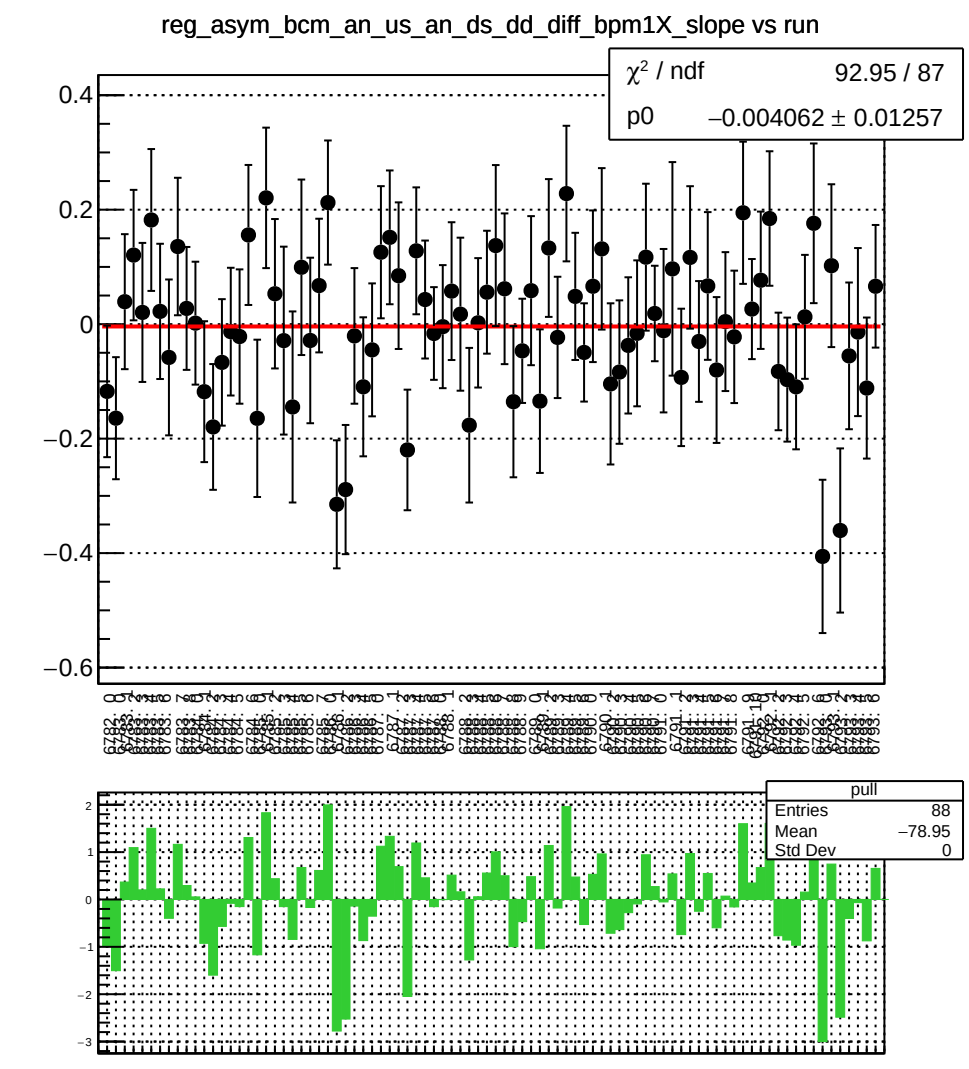

pull1D
Entries 88
Mean 0.003523
Std Dev 1.006

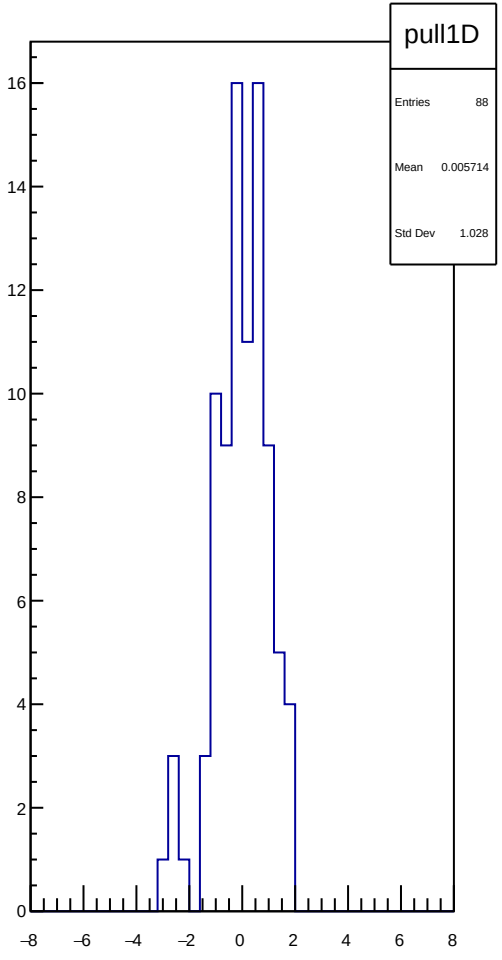

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 108 / 87
p0 5.835 ± 0.3353
pull
Entries 88
Mean 299.7
Std Dev 0
pull1D
Entries 88
Mean 0.05414
Std Dev 1.106

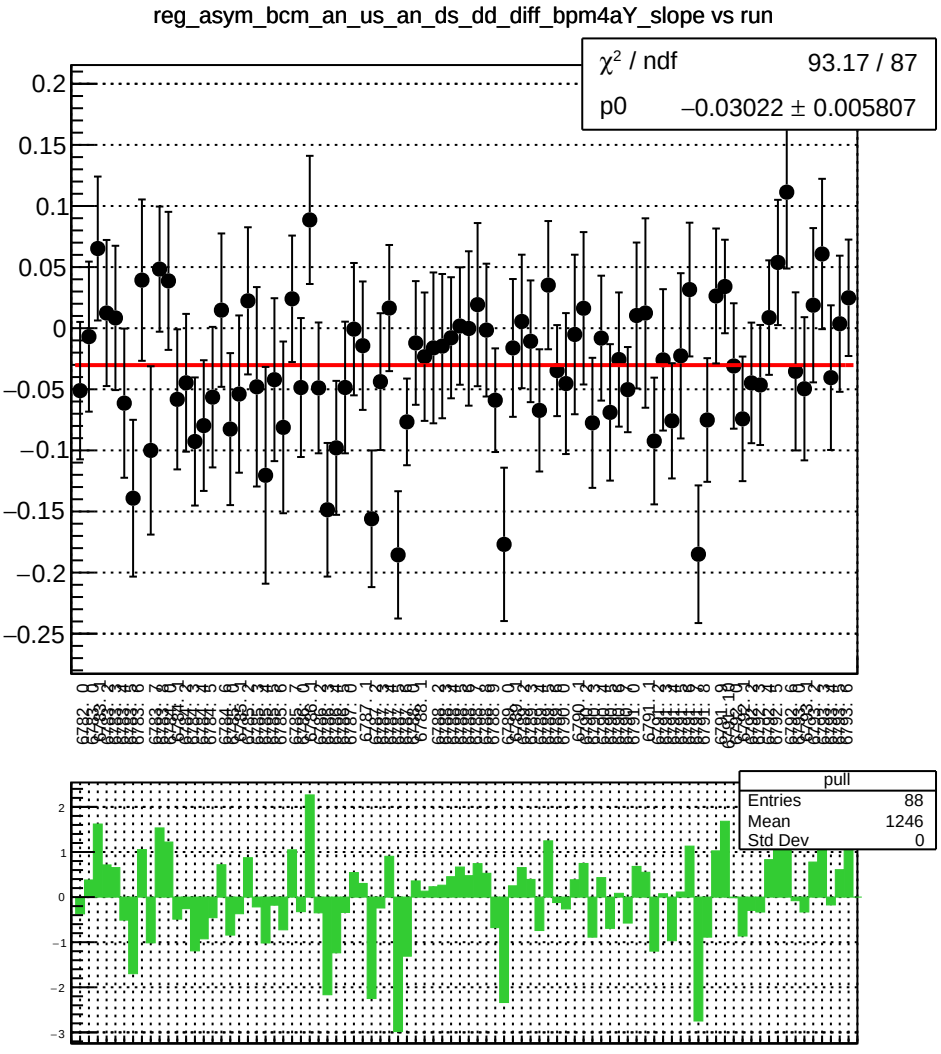

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.27 / 87
p0 −4.554 ± 0.2279
pull
Entries 88
Mean 417.4
Std Dev 0

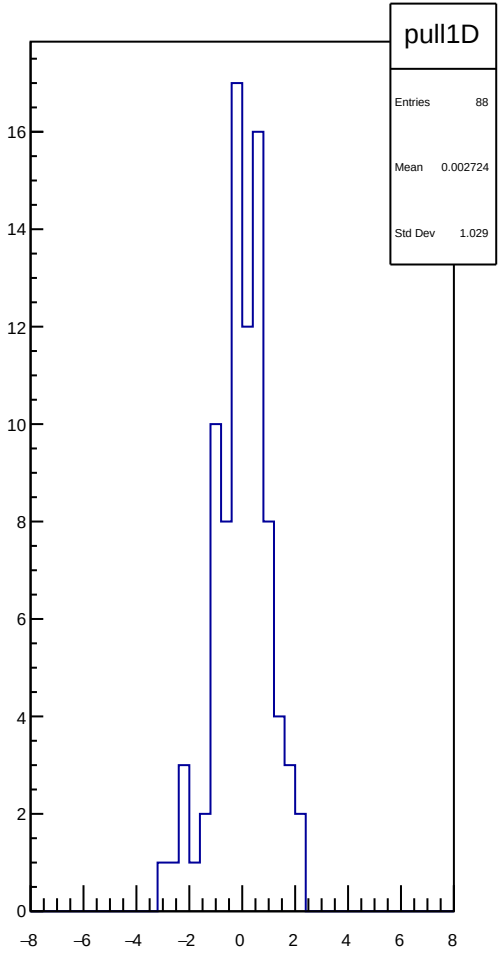

pull1D
Entries 88
Mean −0.0222
Std Dev 1.046

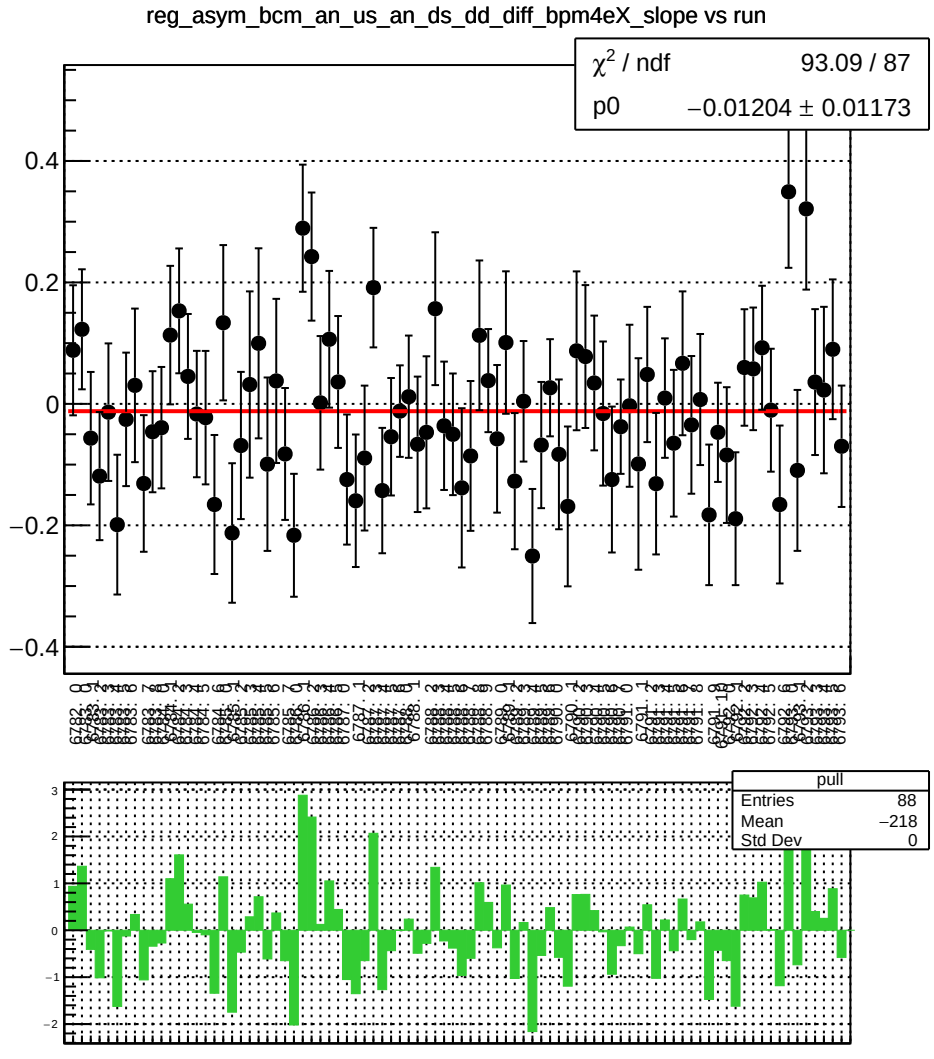

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 101.4 / 87
p0 −0.1705 ± 0.01485
pull
Entries 88
Mean 230.5
Std Dev 0
pull1D
Entries 88
Mean −0.06679
Std Dev 1.071

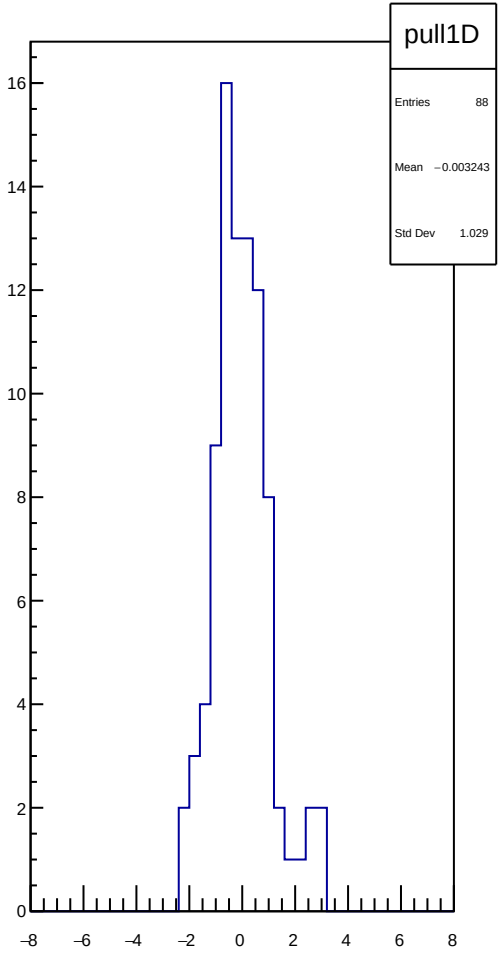

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 92.95 / 87
p0 −0.004062 ± 0.01257
pull
Entries 88
Mean −78.95
Std Dev 0

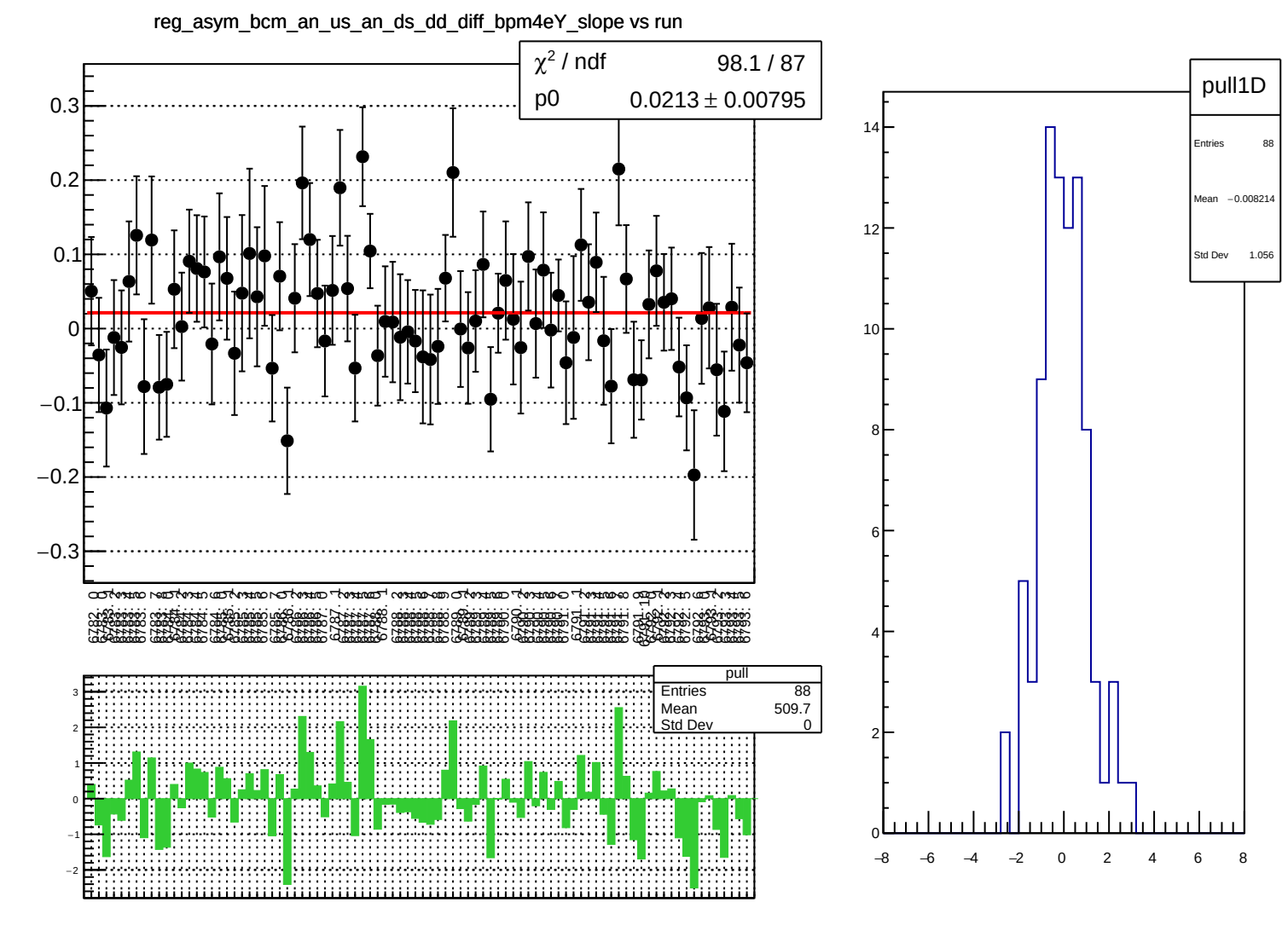

pull1D
Entries 88
Mean 0.005714
Std Dev 1.028

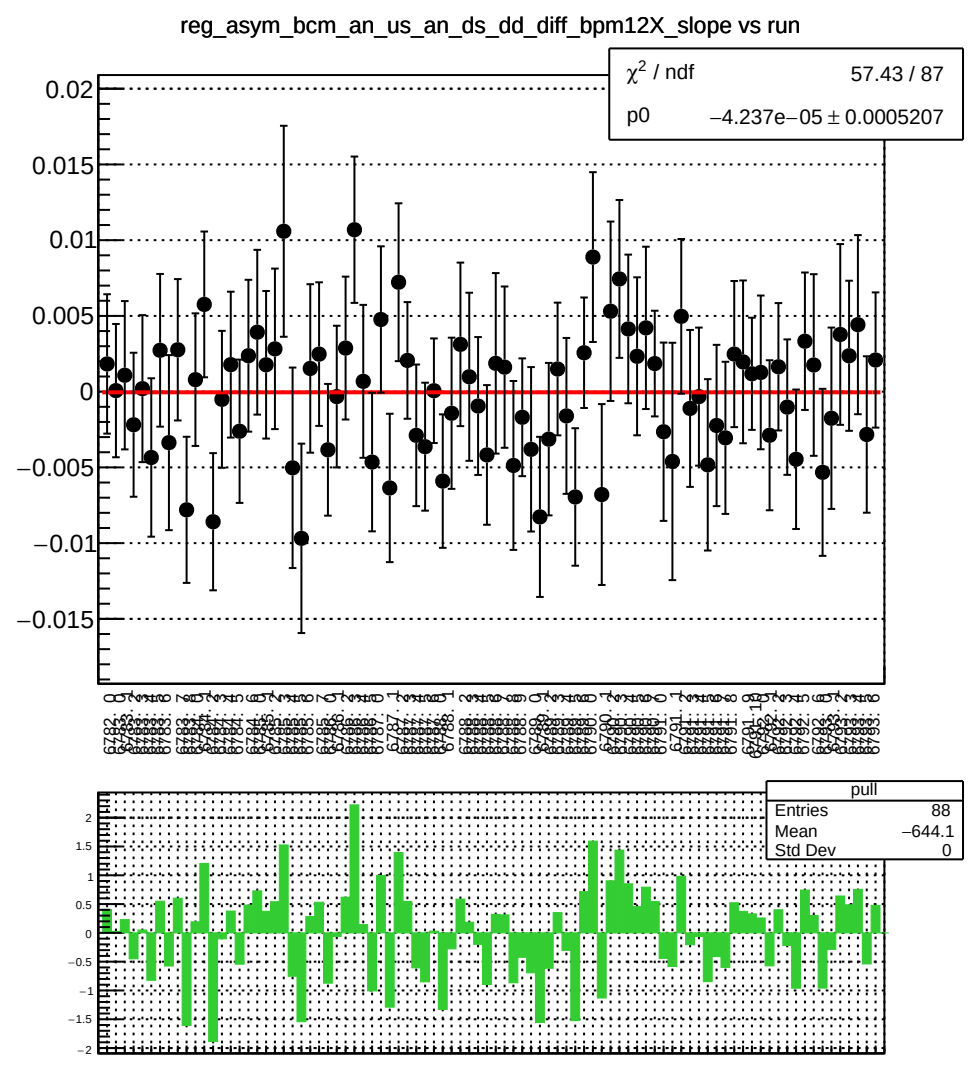

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.17 / 87
p0 −0.03022 ± 0.005807
pull
Entries 88
Mean 1246
Std Dev 0

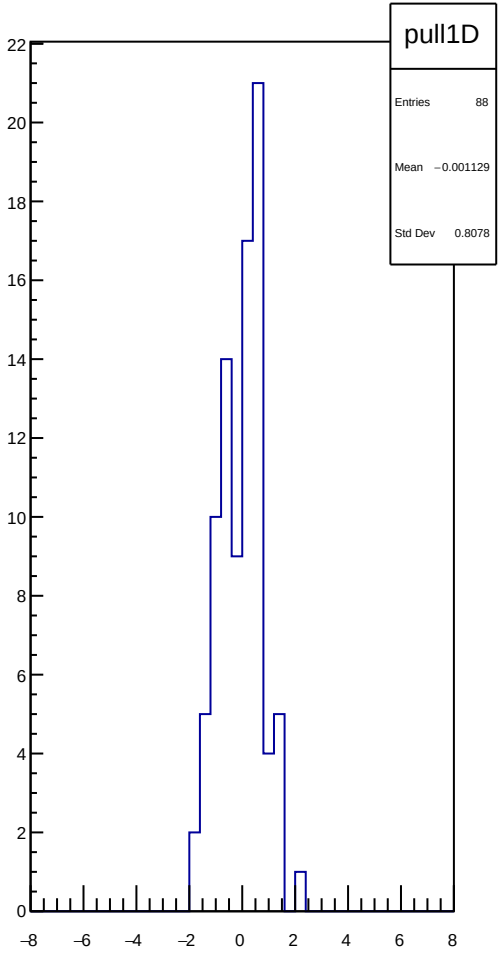

pull1D
Entries 88
Mean 0.002724
Std Dev 1.029

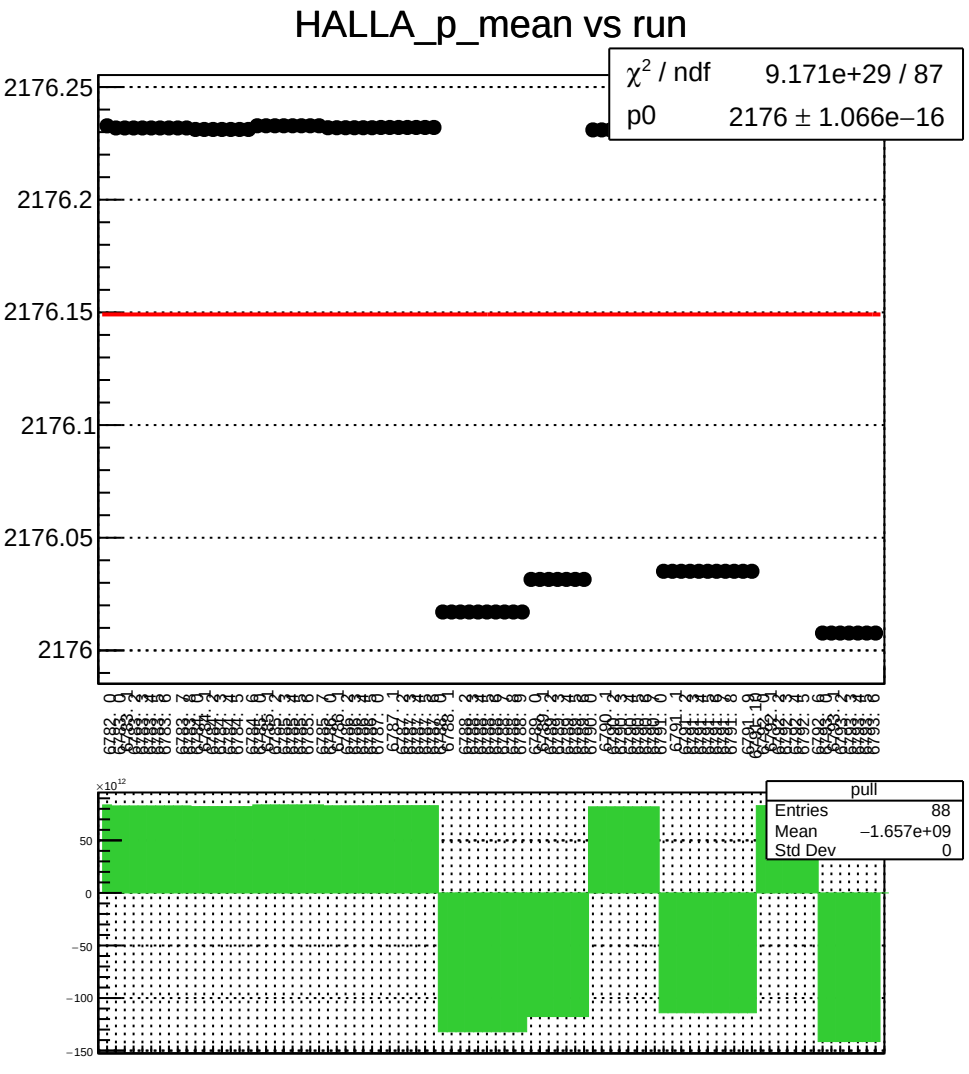

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.09 / 87
p0 −0.01204 ± 0.01173
pull
Entries 88
Mean −218
Std Dev 0

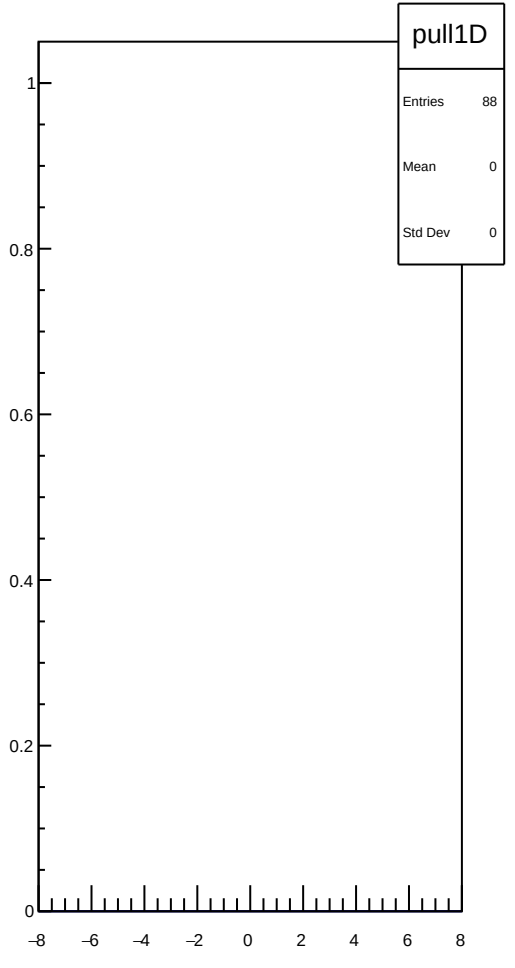

pull1D
Entries 88
Mean −0.003243
Std Dev 1.029

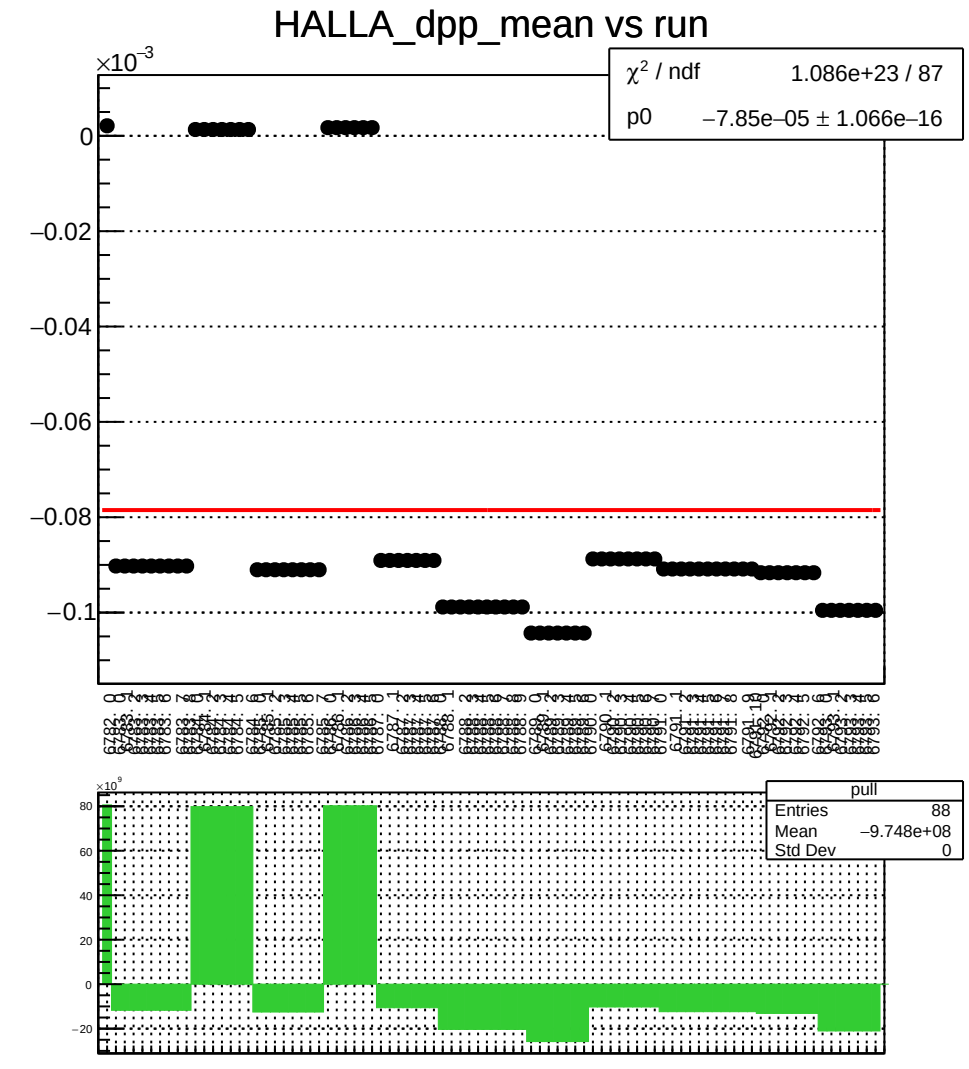

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.1 / 87
p0 0.0213 ± 0.00795
pull
Entries 88
Mean 509.7
Std Dev 0
pull1D
Entries 88
Mean −0.008214
Std Dev 1.056

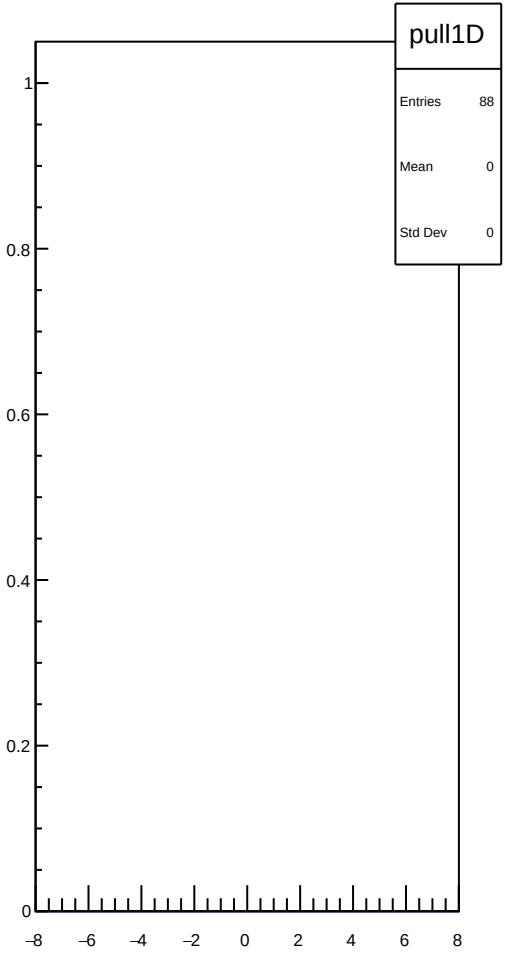

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 57.43 / 87
p0 −4.237e−05 ± 0.0005207
pull
Entries 88
Mean −644.1
Std Dev 0

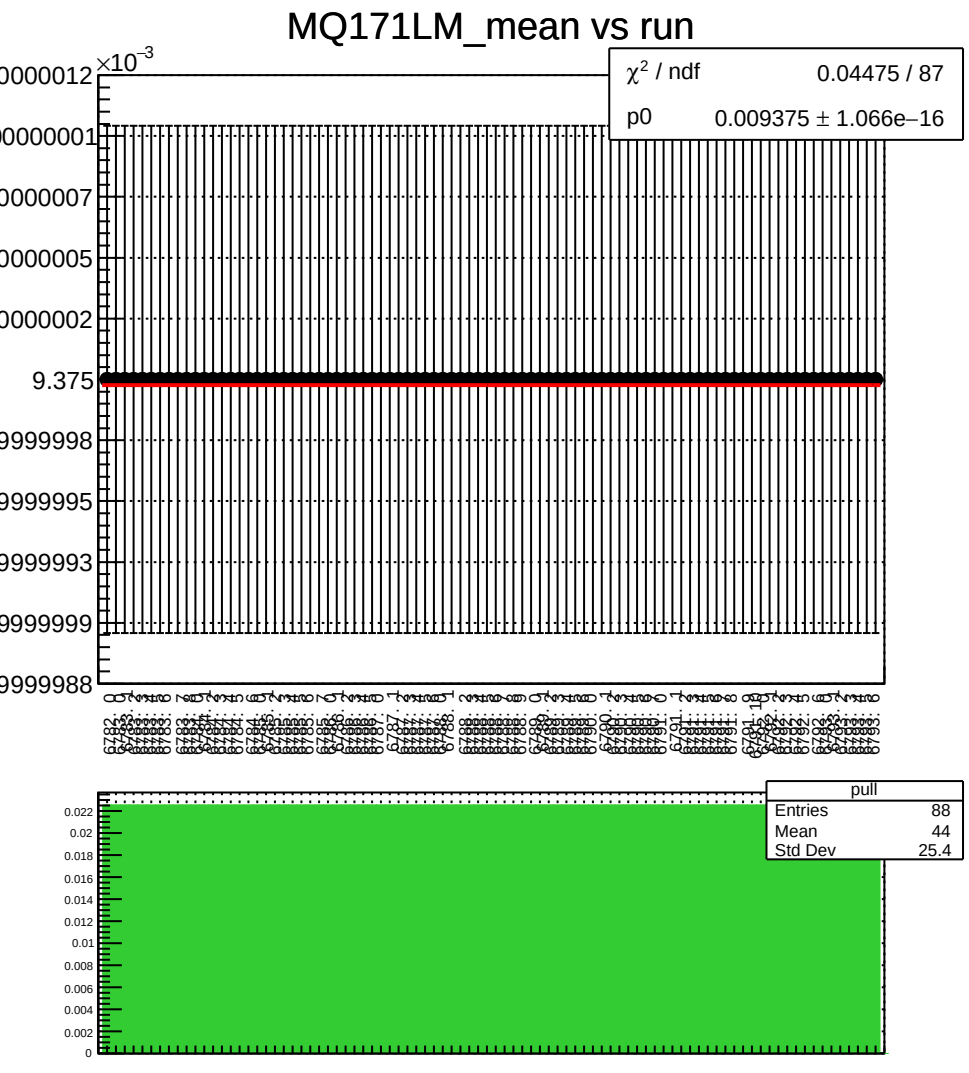

pull1D
Entries 88
Mean −0.001129
Std Dev 0.8078

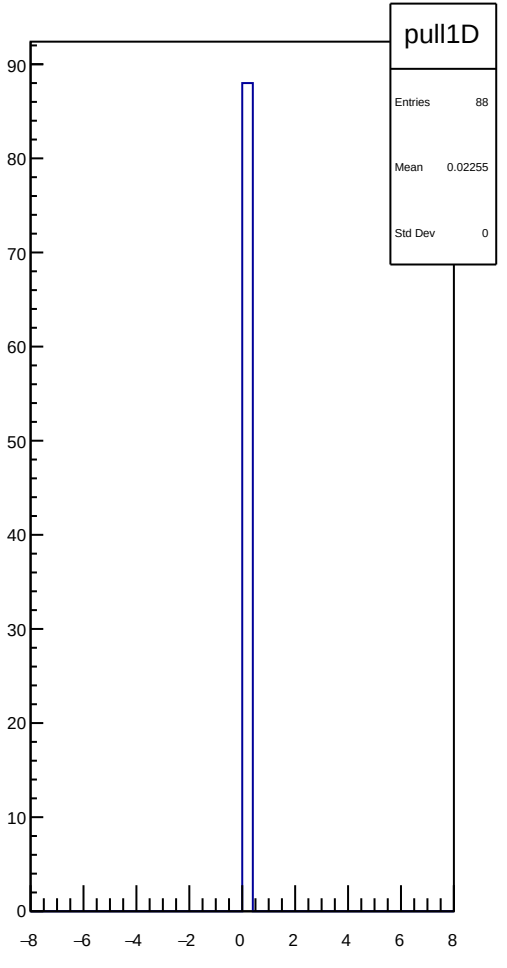

HALLA_p_mean vs run
χ² / ndf 9.171e+29 / 87
p0 2176 ± 1.066e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 88
Mean −1.657e+09
Std Dev 0
×10¹²
50
0
−50
−100
−150

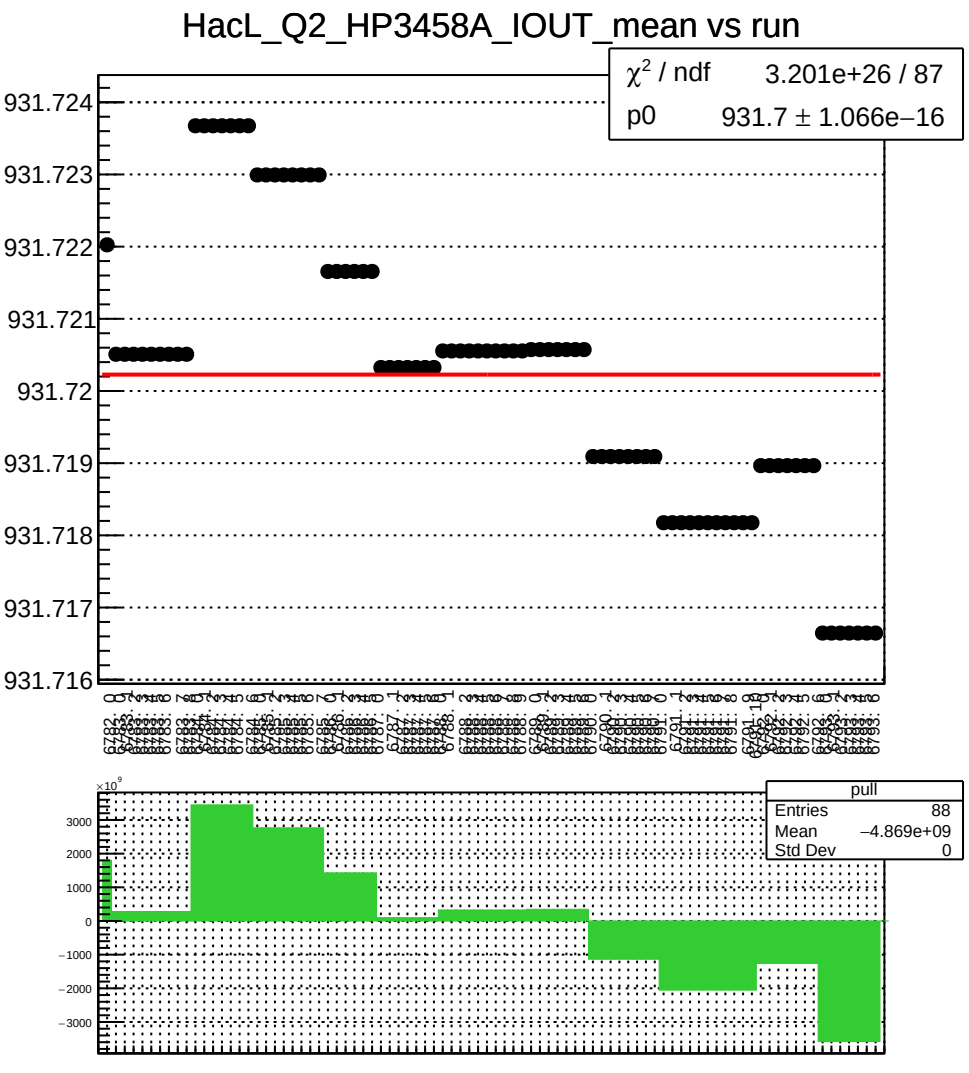

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

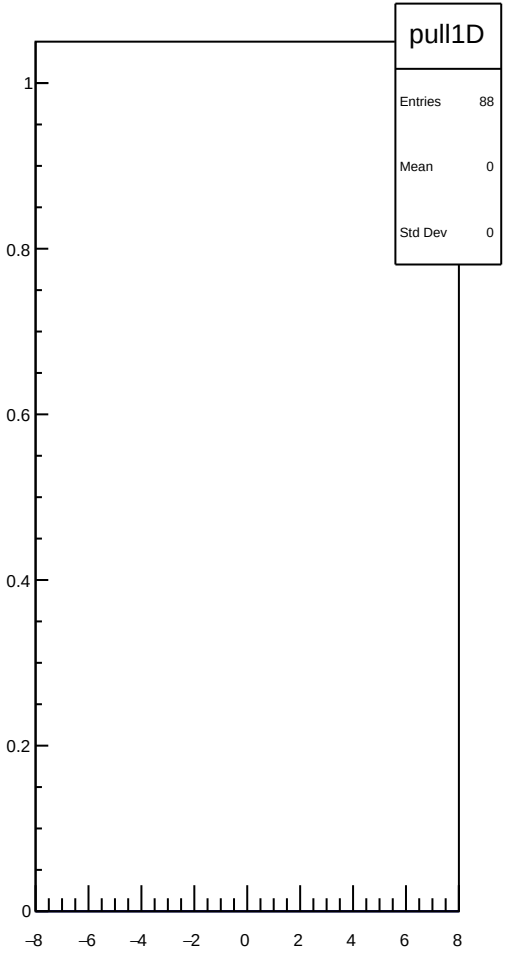

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.086e+23 / 87
p0 −7.85e−05 ± 1.066e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
80
60
40
20
0
−20
pull
Entries 88
Mean −9.748e+08
Std Dev 0

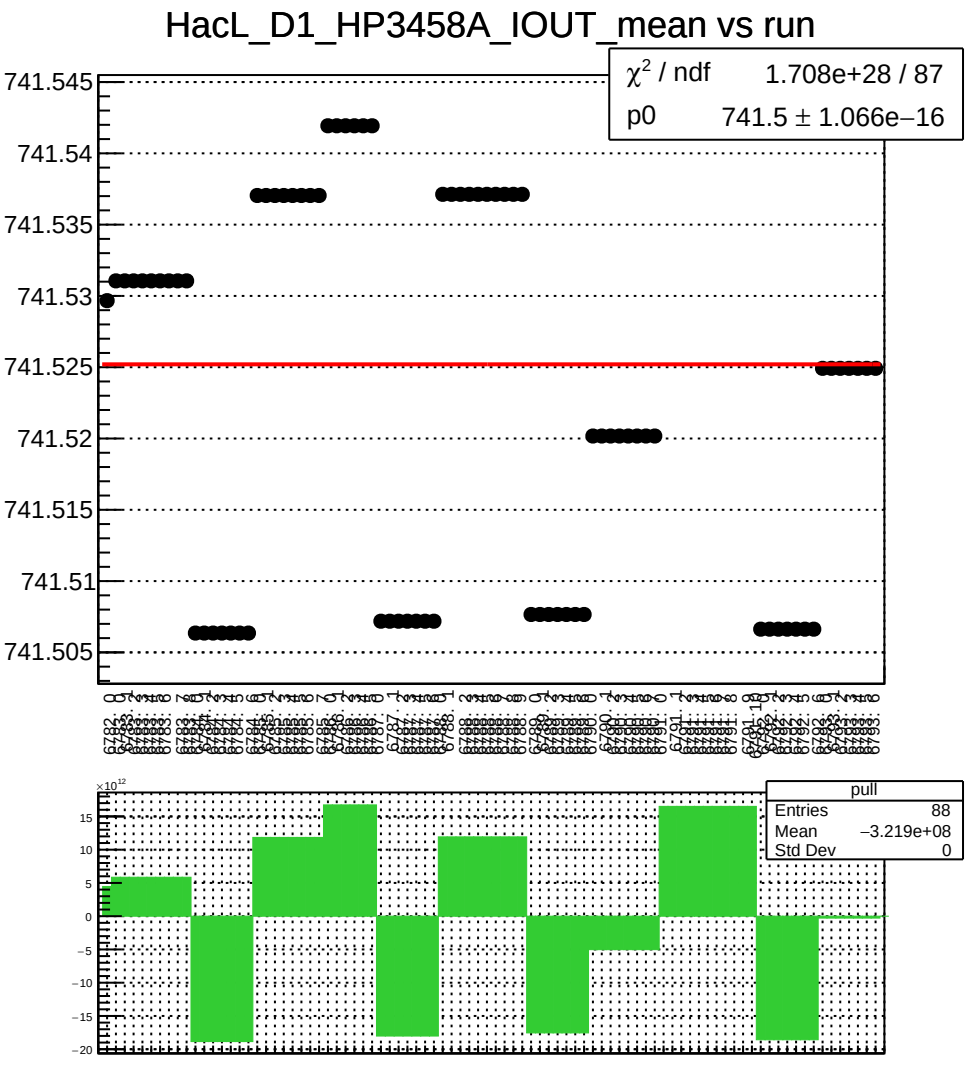

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

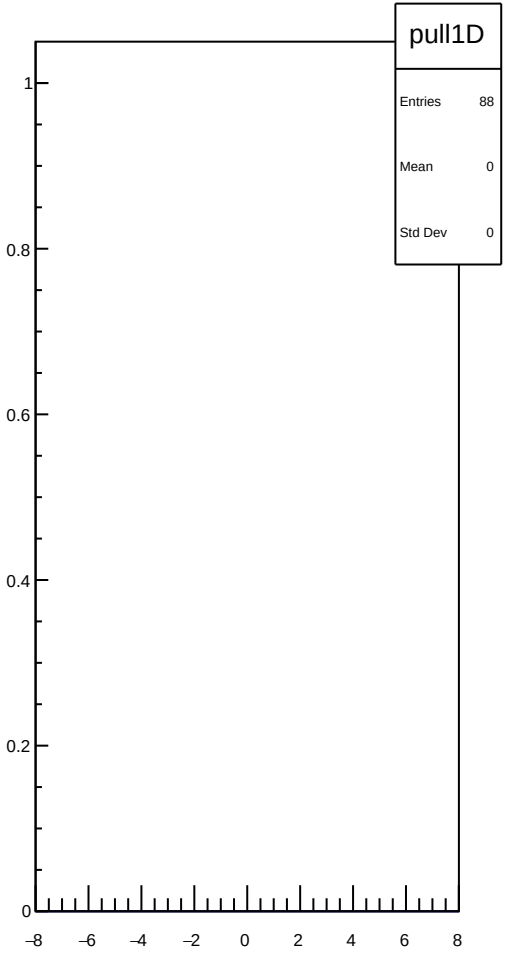

MQ171LM_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4

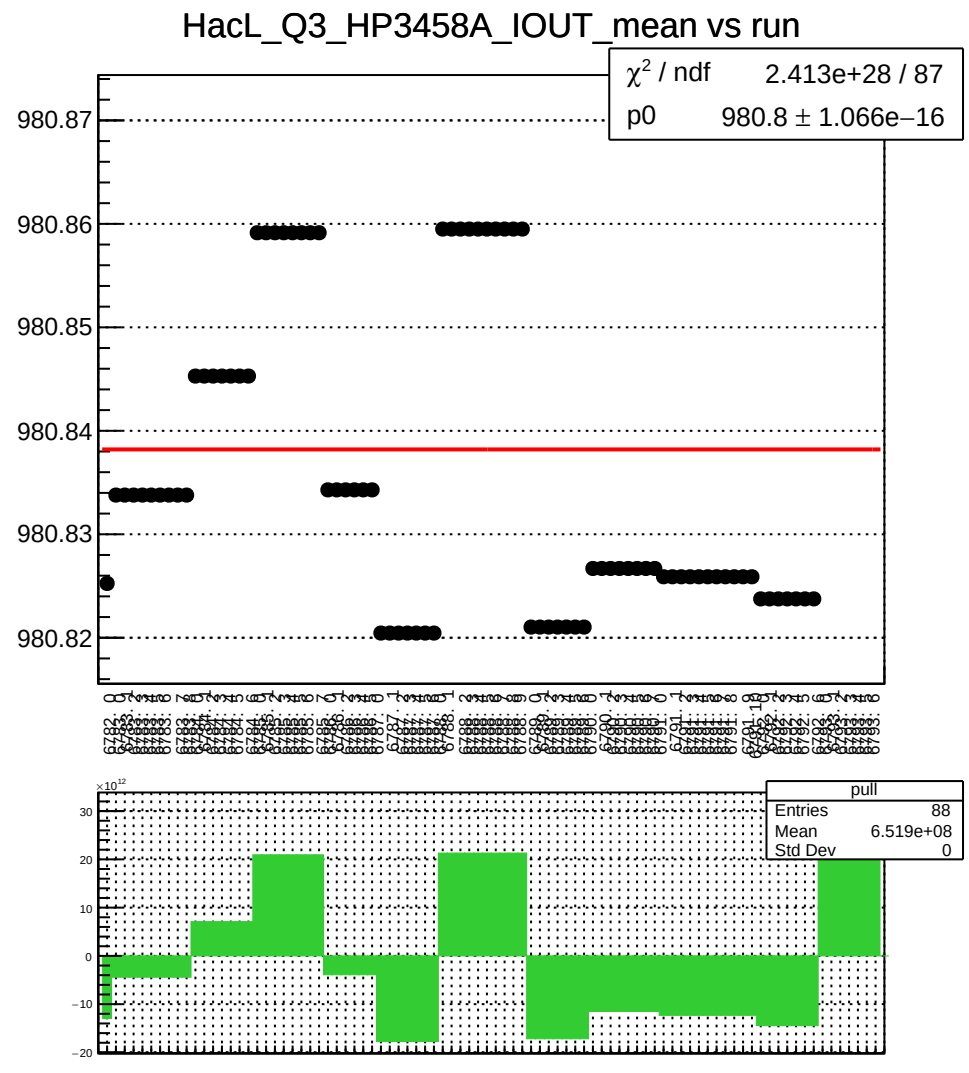

pull1D
Entries 88
Mean 0.02255
Std Dev 0

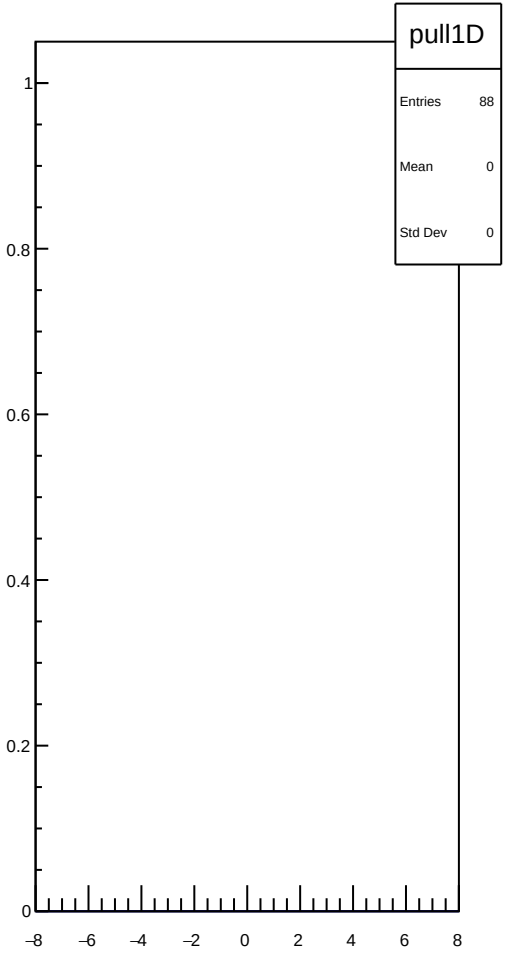

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.201e+26 / 87
p0 931.7 ± 1.066e−16
931.724
931.723
931.722
931.721
931.72
931.719
931.718
931.717
931.716
pull
Entries 88
Mean −4.869e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

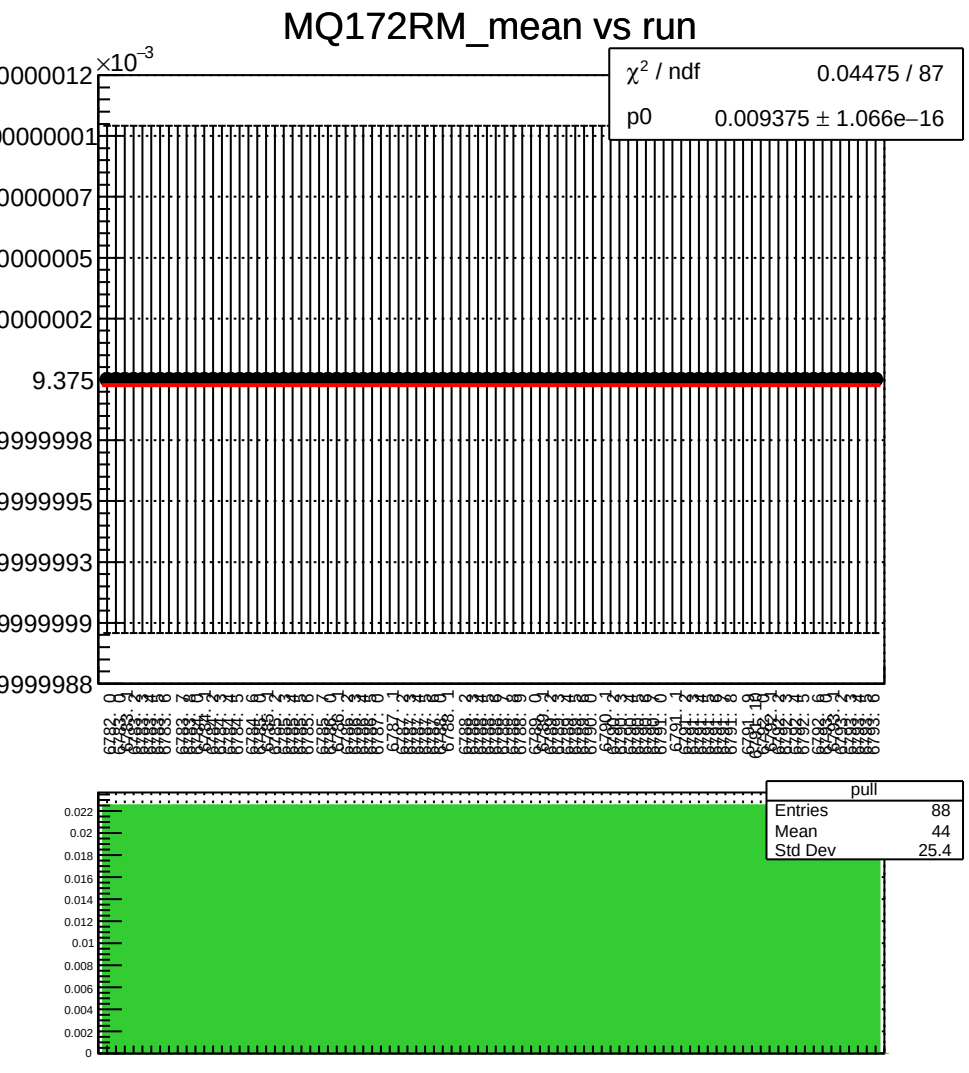

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

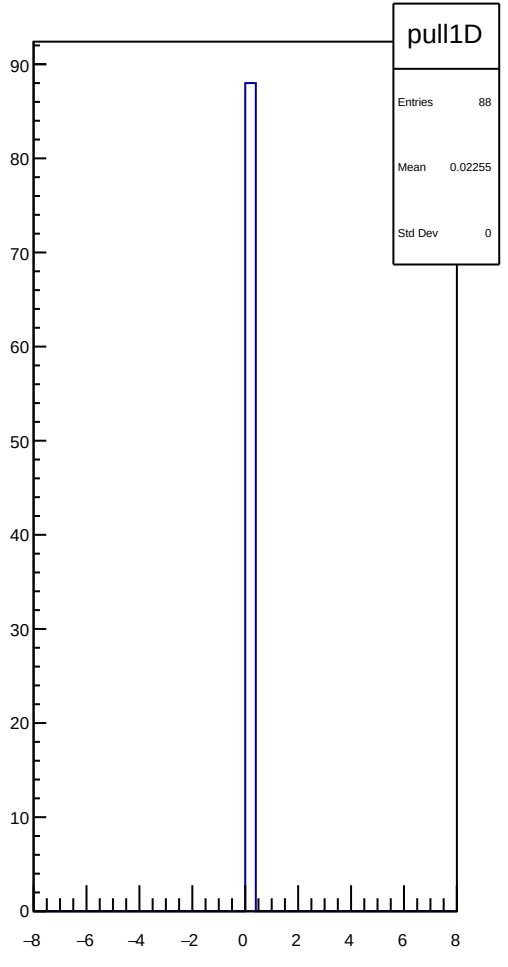

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.708e+28 / 87
p0 741.5 ± 1.066e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
pull
Entries 88
Mean −3.219e+08
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15
−20

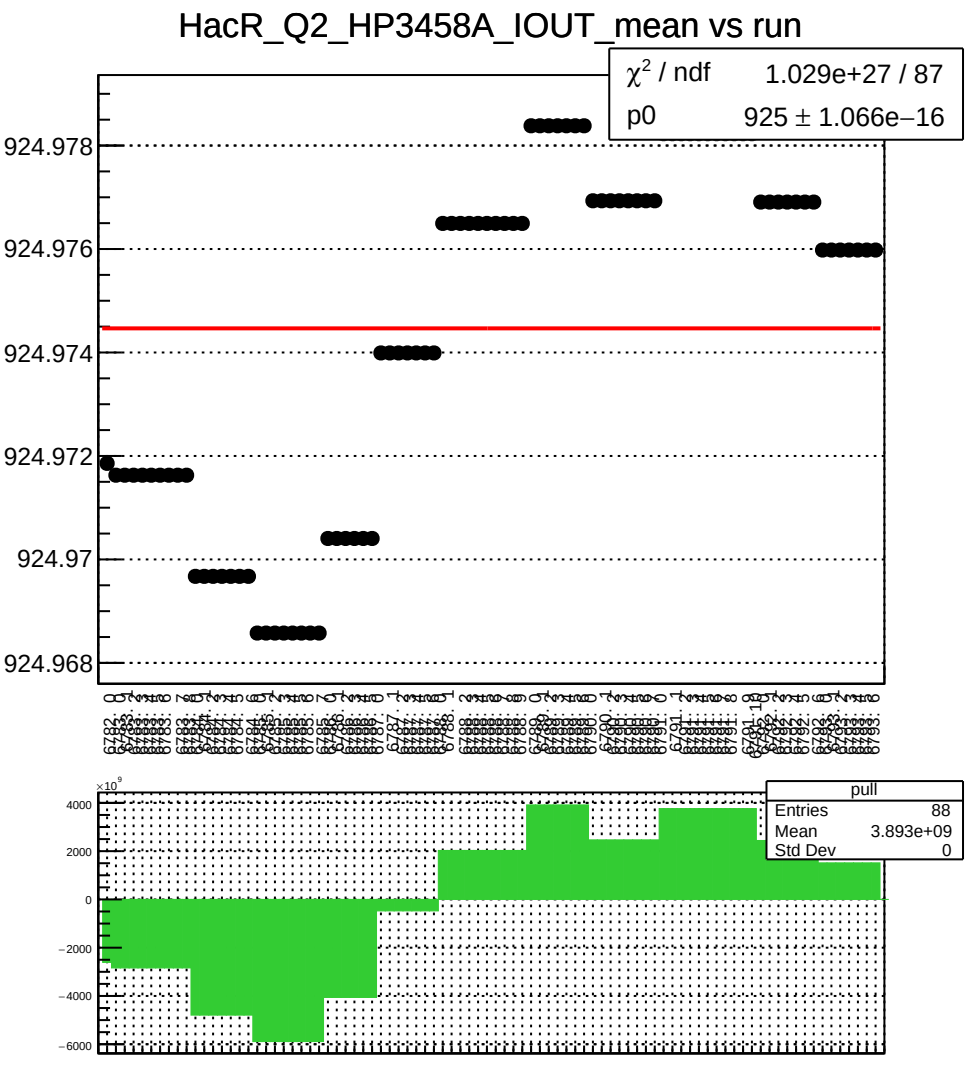

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

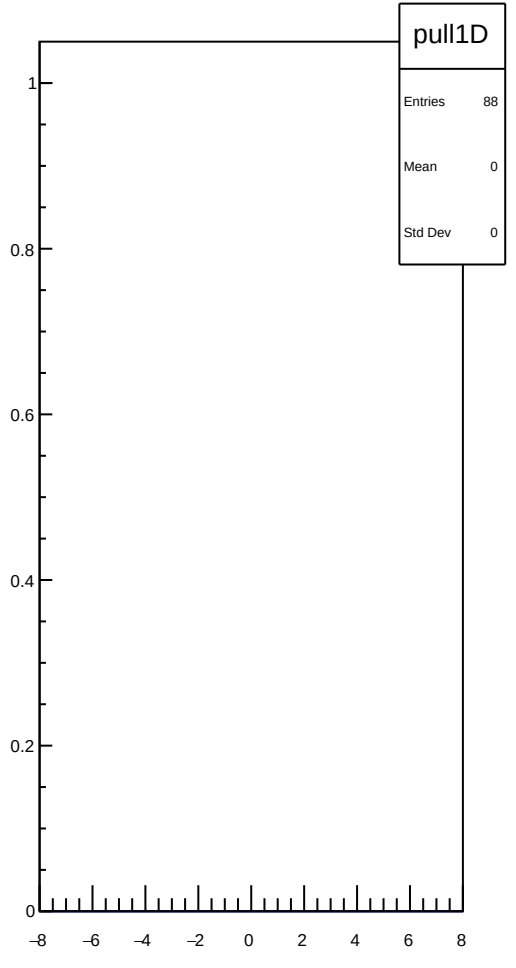

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.413e+28 / 87
p0 980.8 ± 1.066e−16
980.87
980.86
980.85
980.84
980.83
980.82
pull
Entries 88
Mean 6.519e+08
Std Dev 0
×10¹²
30
20
10
0
−10
−20

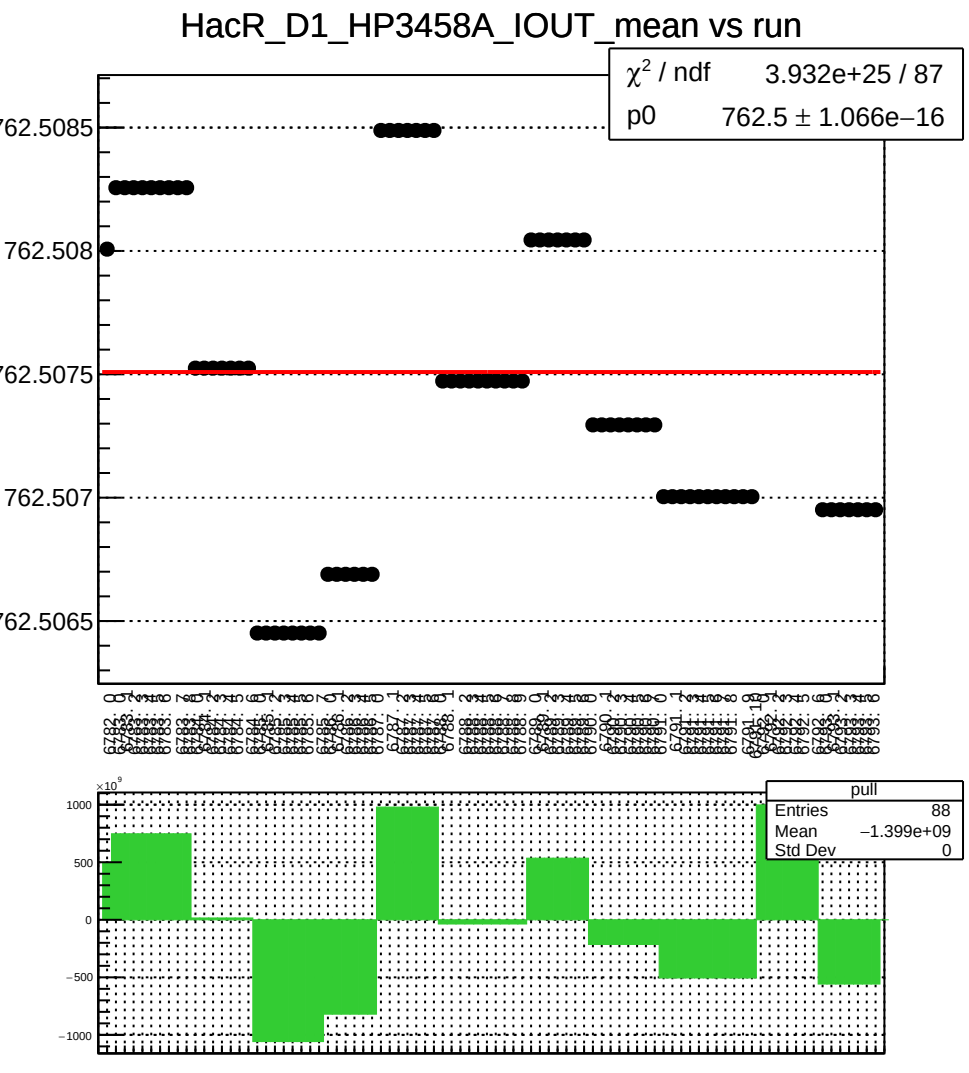

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

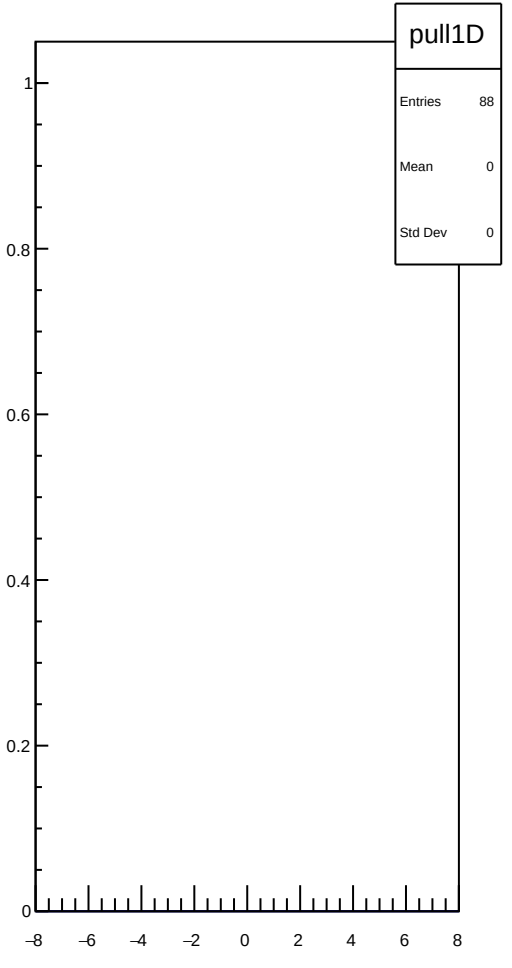

MQ172RM_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4

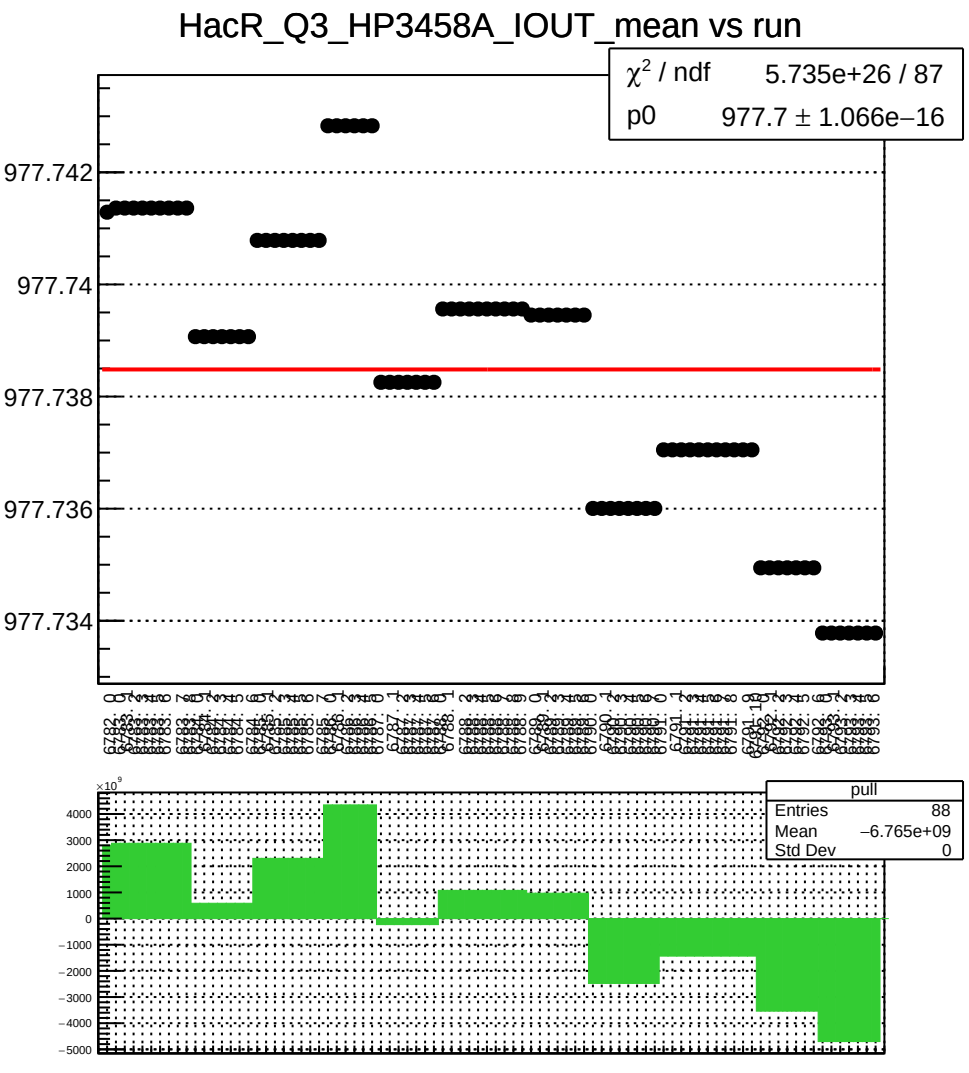

pull1D
Entries 88
Mean 0.02255
Std Dev 0

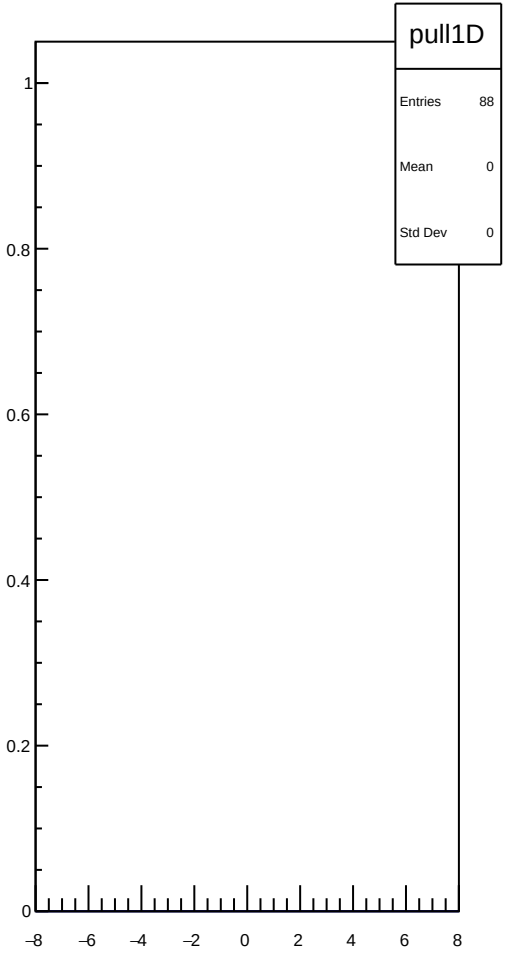

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.029e+27 / 87
p0 925 ± 1.066e−16
924.978
924.976
924.974
924.972
924.97
924.968
pull
Entries 88
Mean 3.893e+09
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000

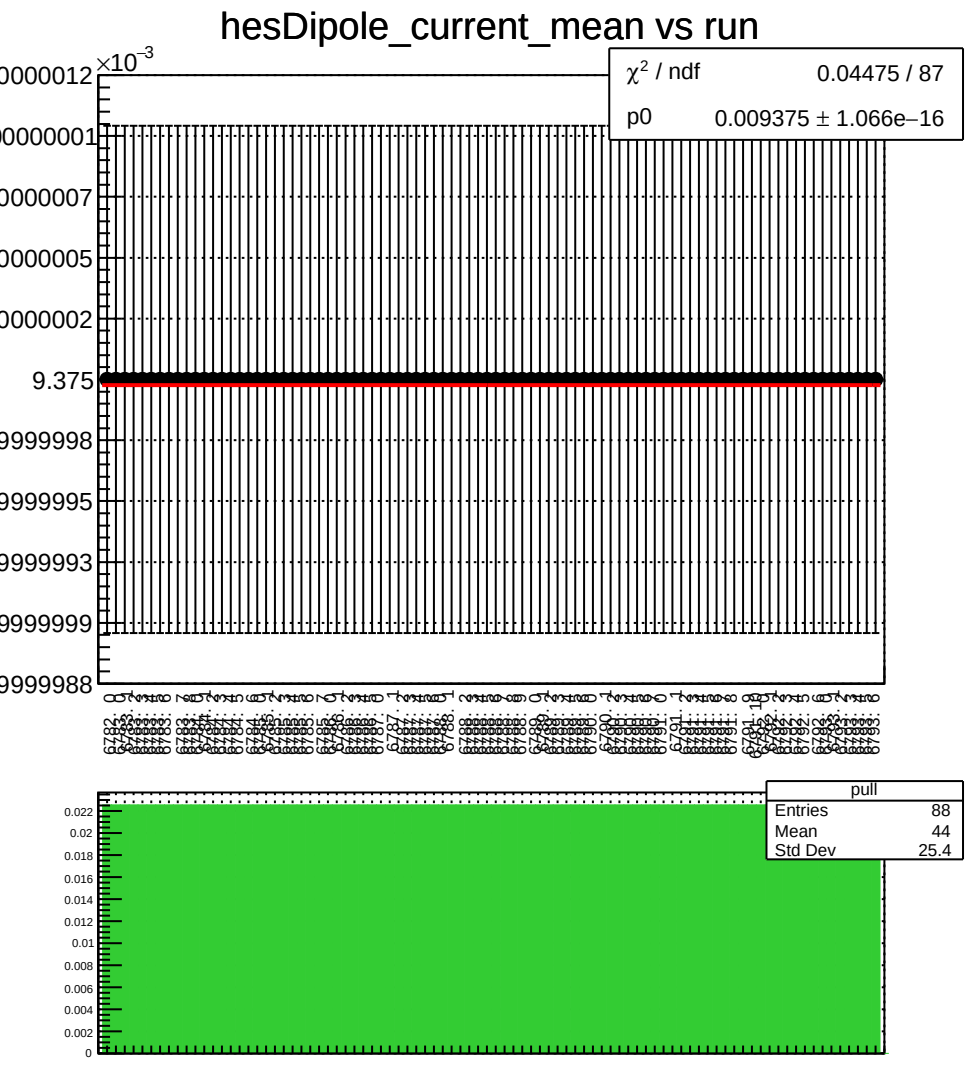

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

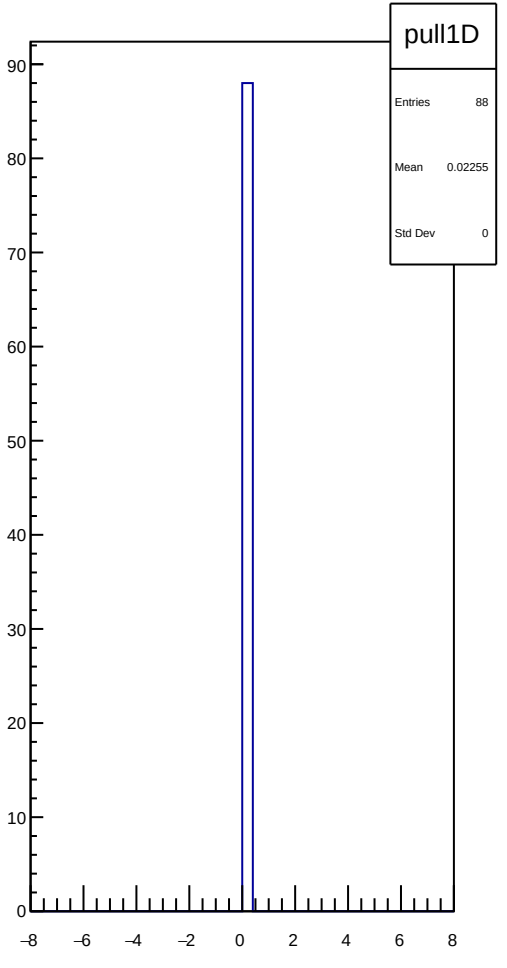

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.932e+25 / 87
p0 762.5 ± 1.066e−16
762.5085
762.508
762.5075
762.507
762.5065
×10⁹
1000
500
0
−500
−1000
pull
Entries 88
Mean −1.399e+09
Std Dev 0

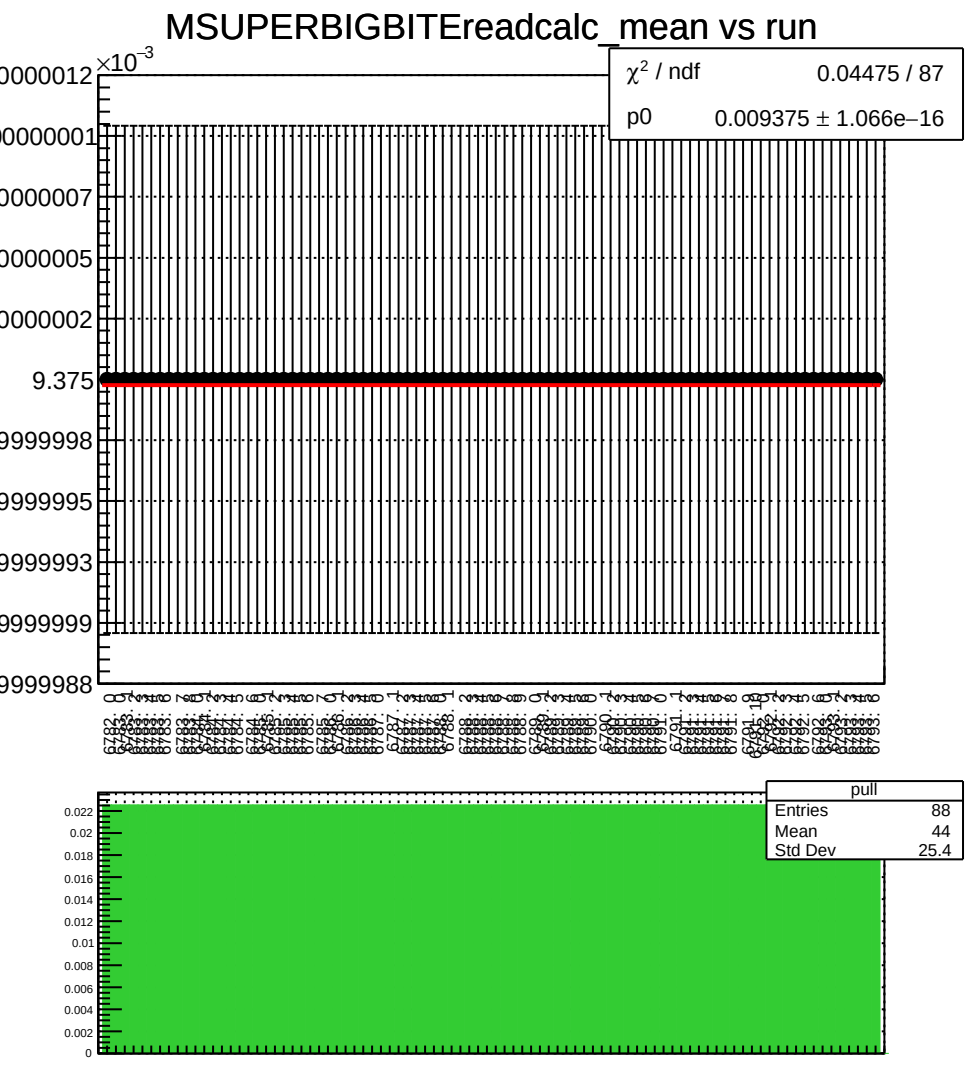

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

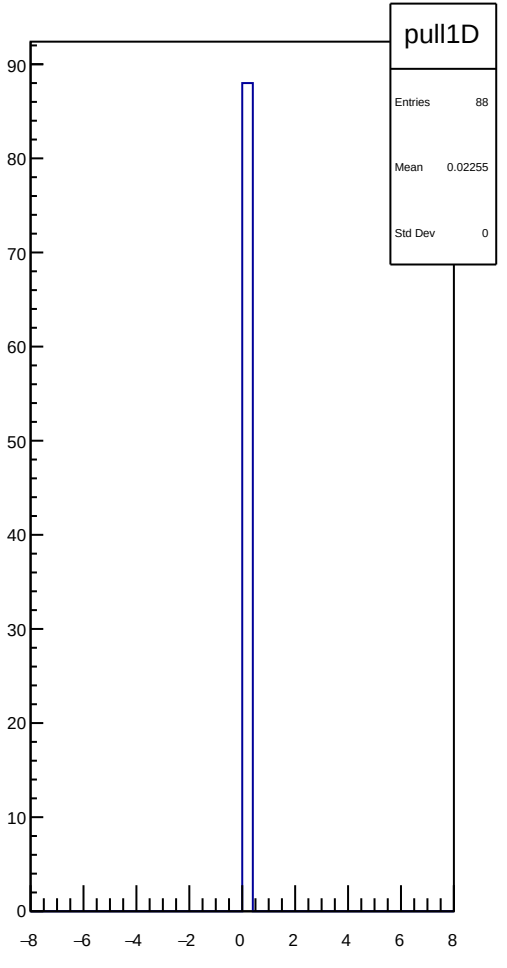

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.735e+26 / 87
p0 977.7 ± 1.066e−16
977.742
977.74
977.738
977.736
977.734
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 88
Mean −6.765e+09
Std Dev 0

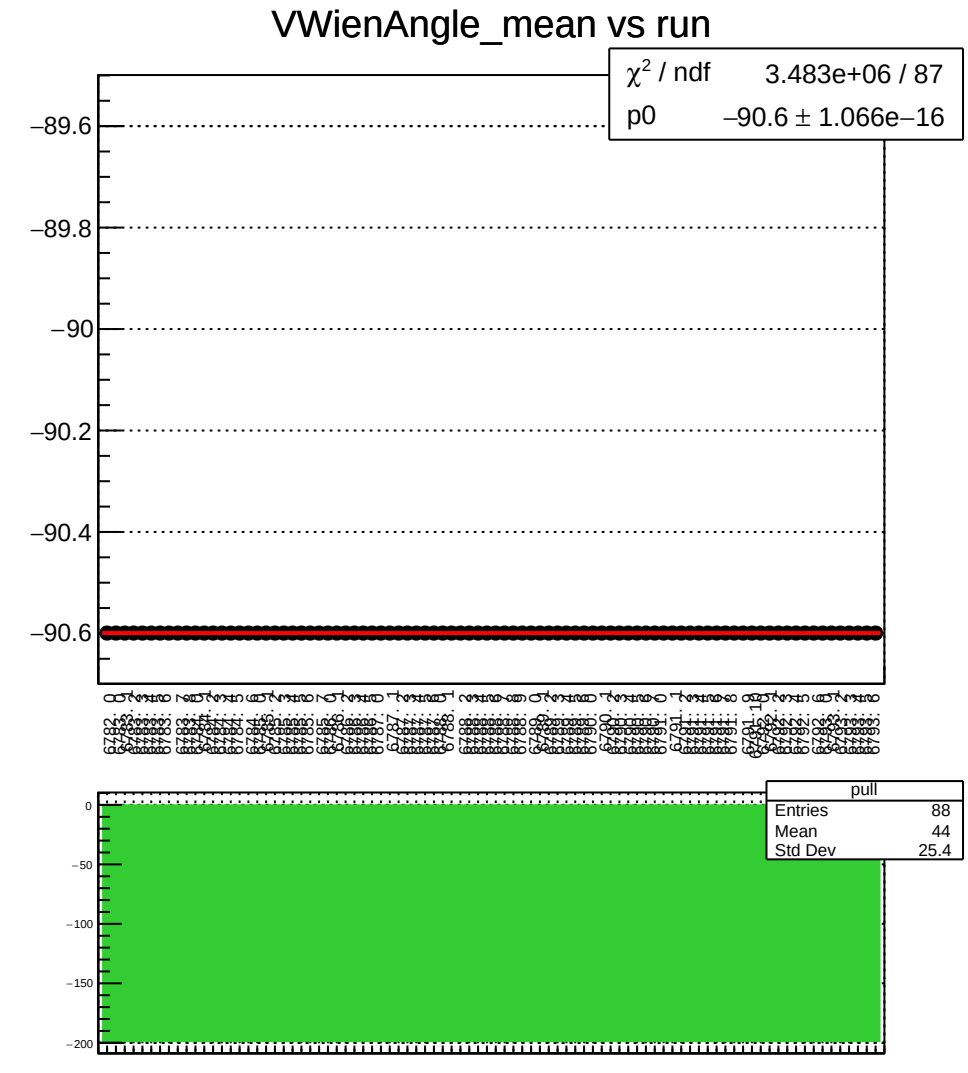

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

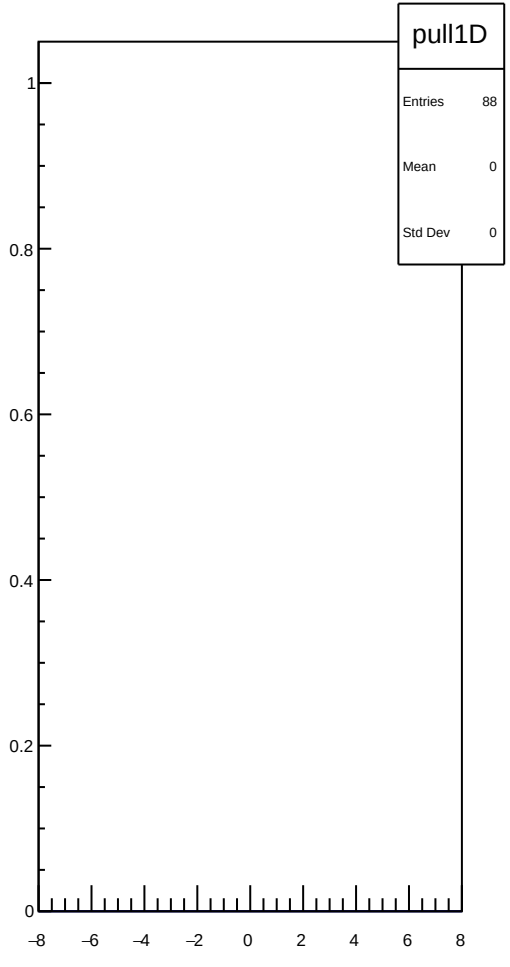

hesDipole_current_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4

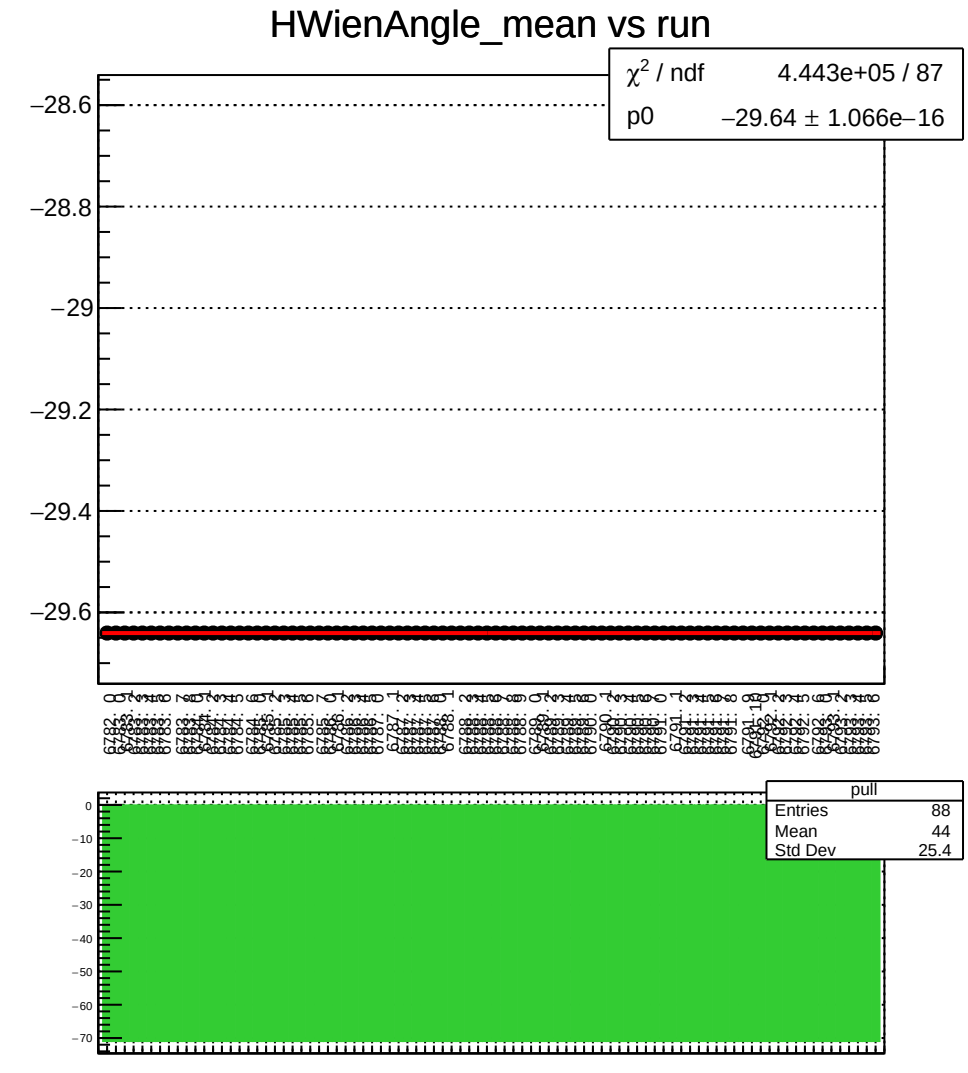

pull1D
Entries 88
Mean 0.02255
Std Dev 0

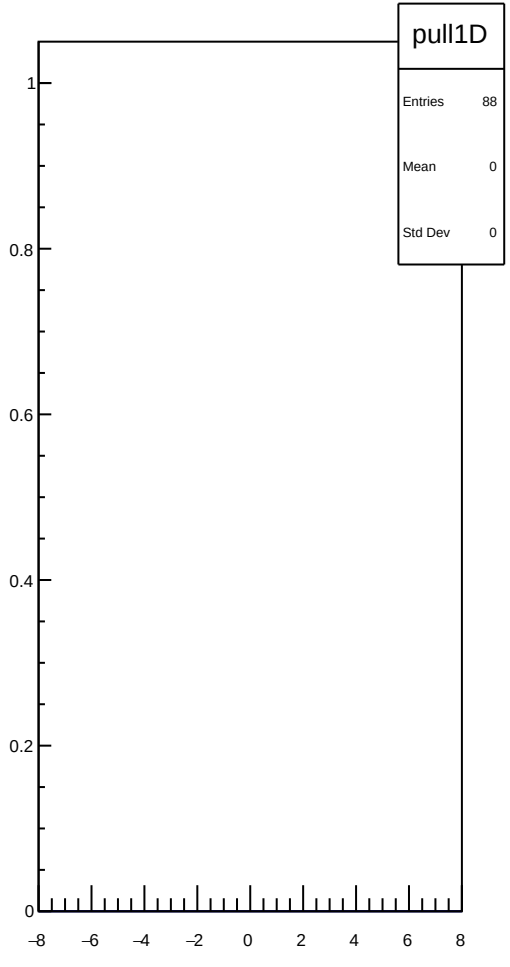

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
9.375
pull
Entries 88
Mean 44
Std Dev 25.4

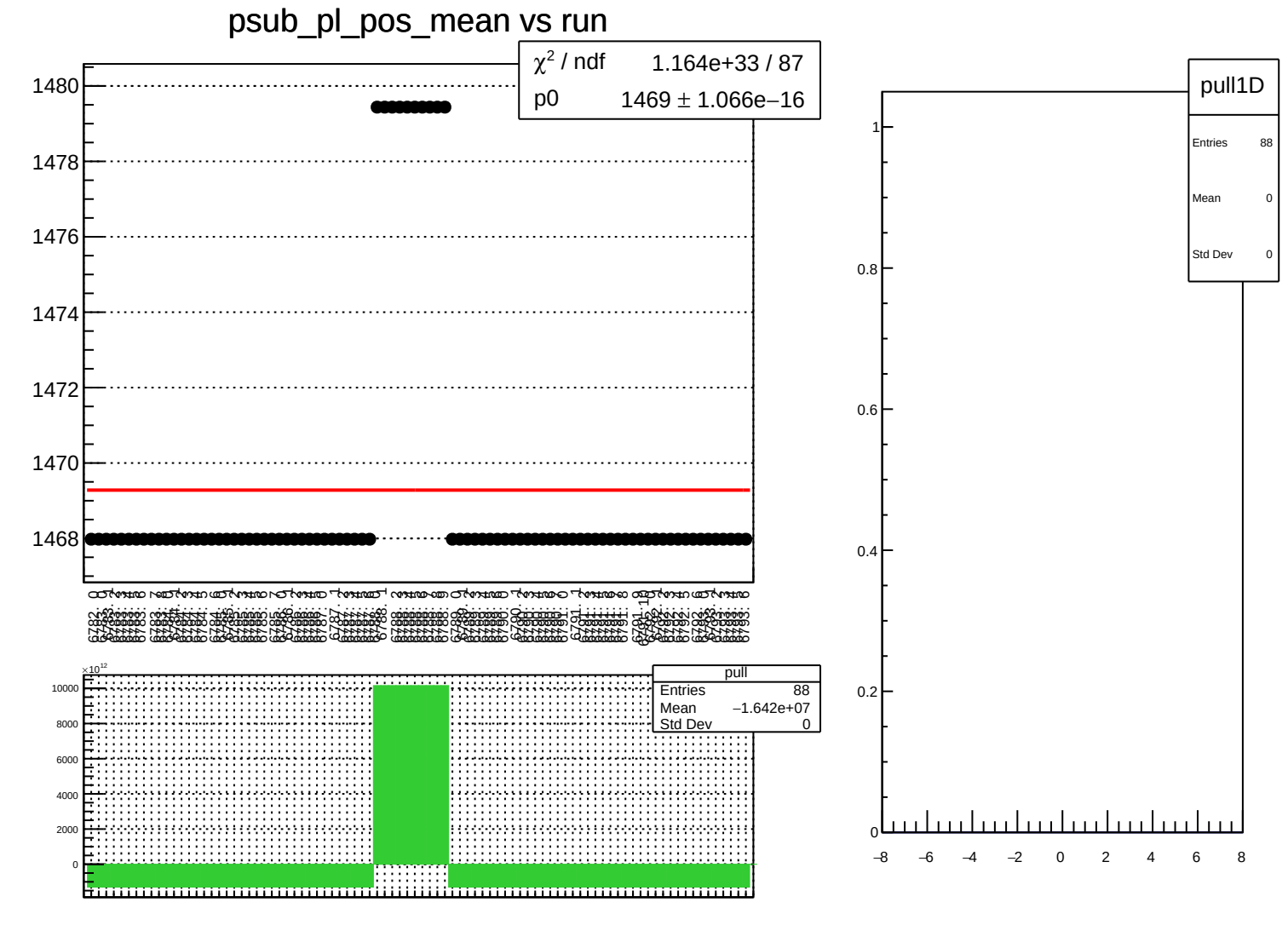

pull1D
Entries 88
Mean 0.02255
Std Dev 0

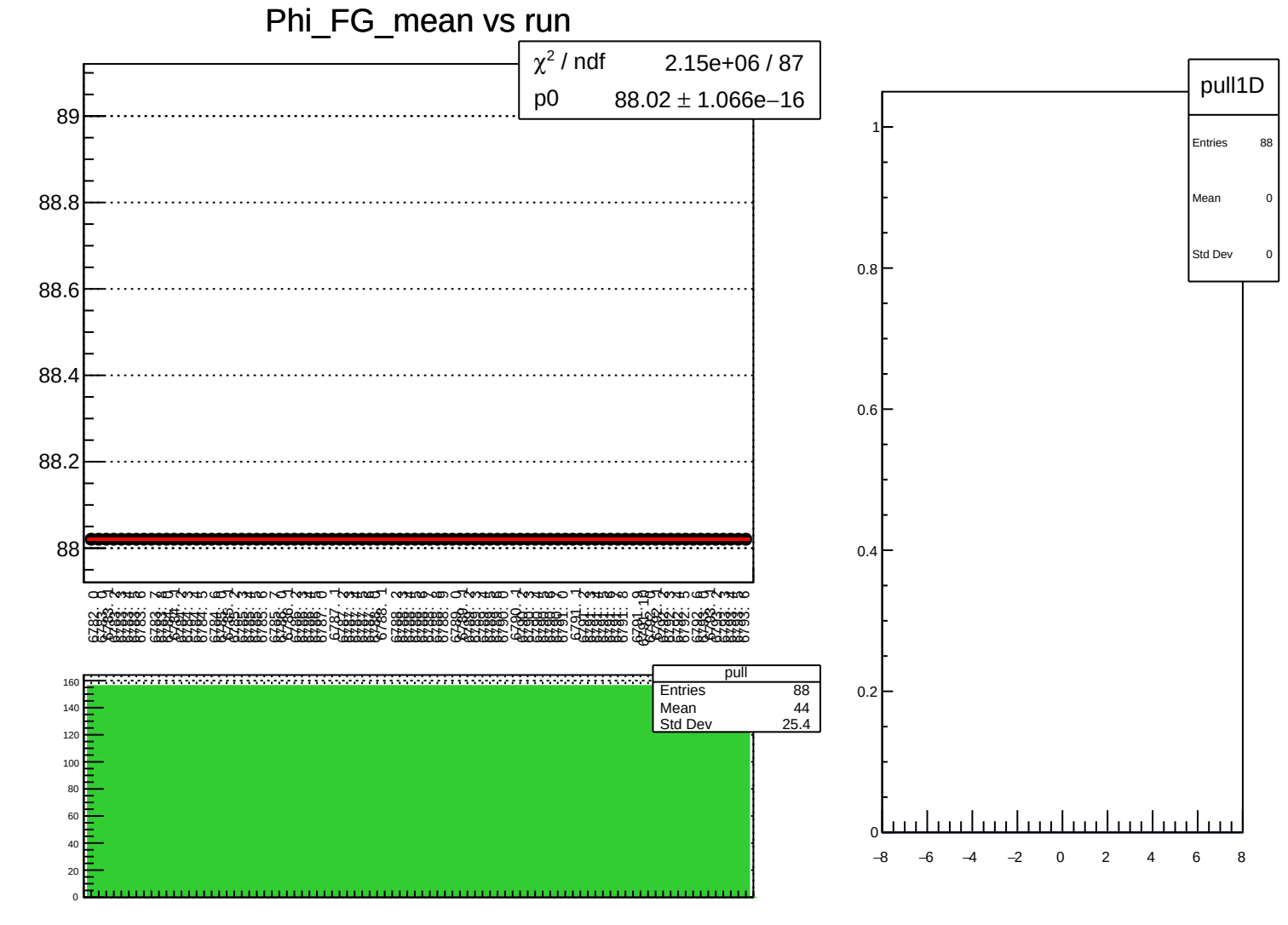

VWienAngle_mean vs run
χ² / ndf 3.483e+06 / 87
p0 −90.6 ± 1.066e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−50
−100
−150
−200

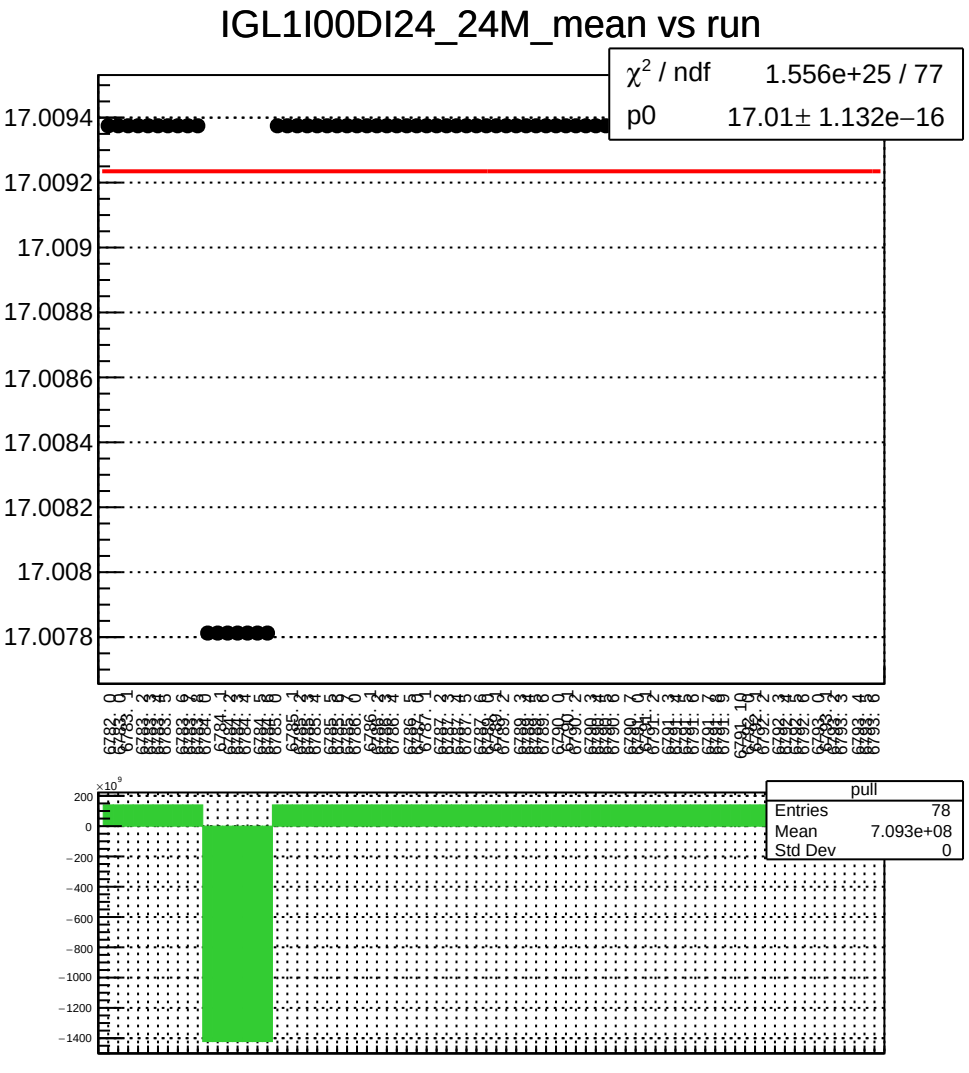

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

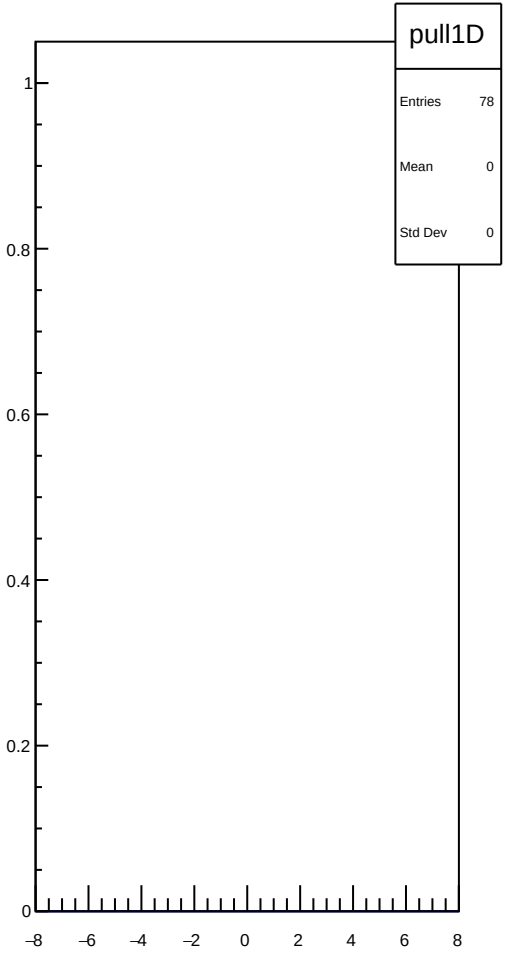

HWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 −29.64 ± 1.066e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70

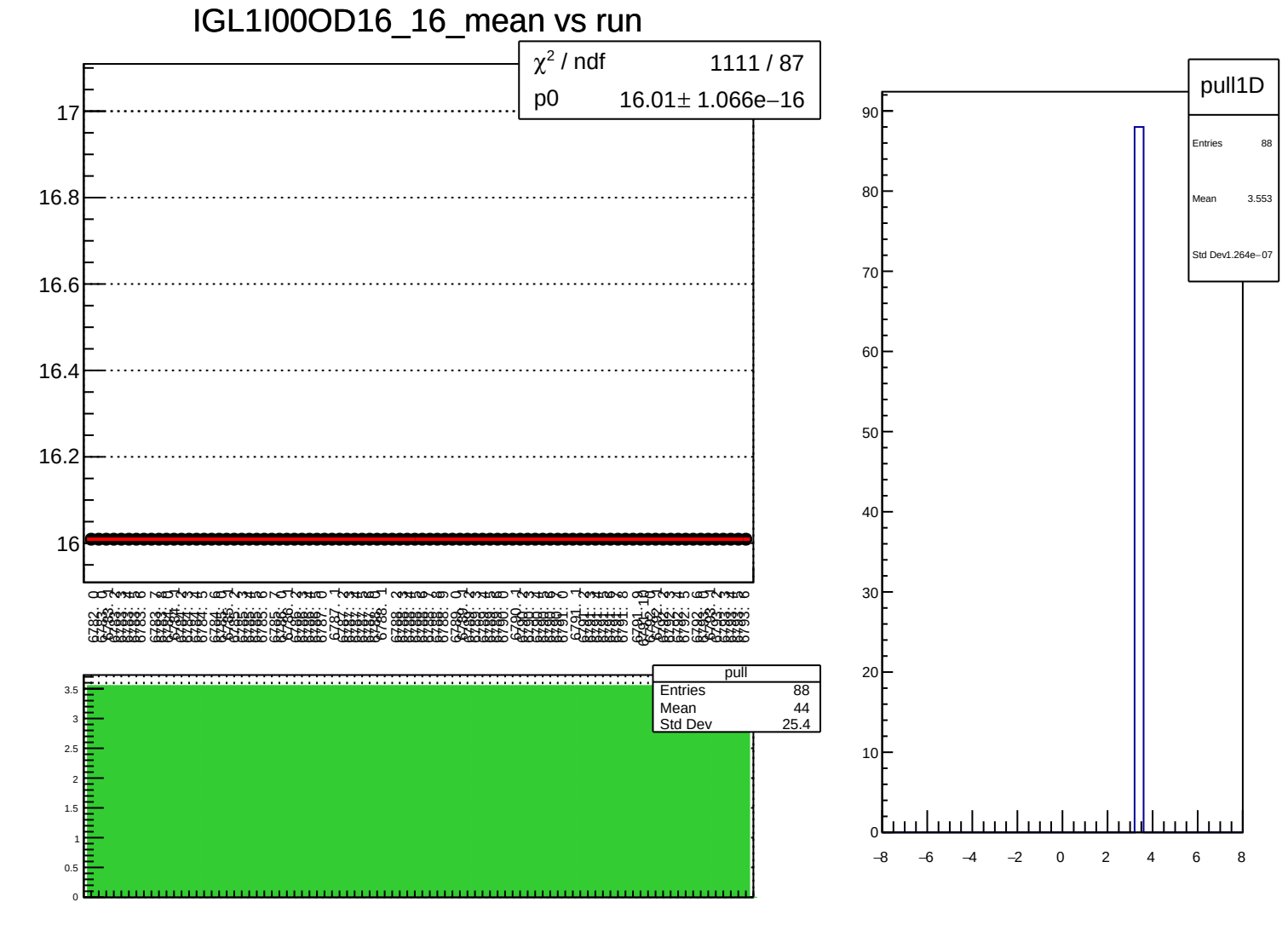

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

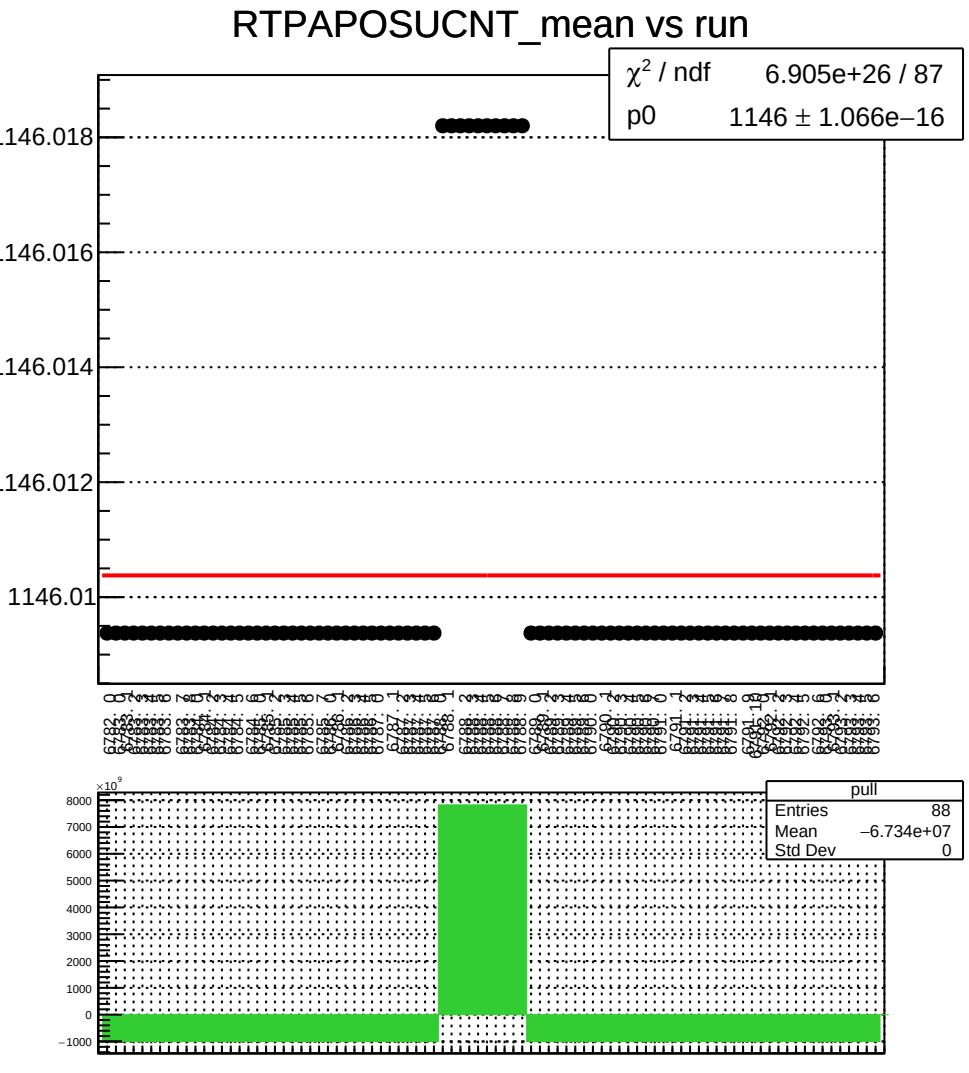

psub_pl_pos_mean vs run
χ² / ndf 1.164e+33 / 87
p0 1469 ± 1.066e−16
1480
1478
1476
1474
1472
1470
1468
pull
Entries 88
Mean −1.642e+07
Std Dev 0
×10¹²
10000
8000
6000
4000
2000
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

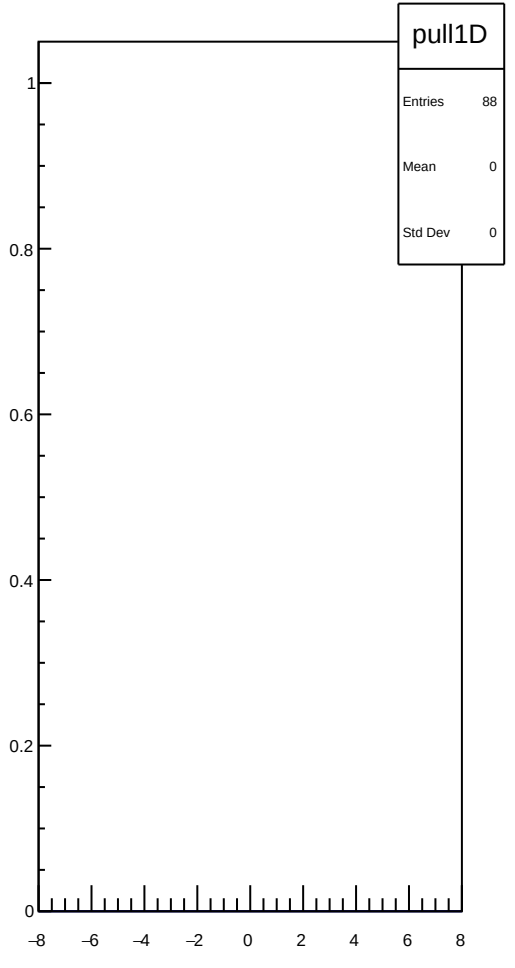

Phi_FG_mean vs run
χ² / ndf 2.15e+06 / 87
p0 88.02 ± 1.066e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 88
Mean 44
Std Dev 25.4
160
140
120
100
80
60
40
20
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

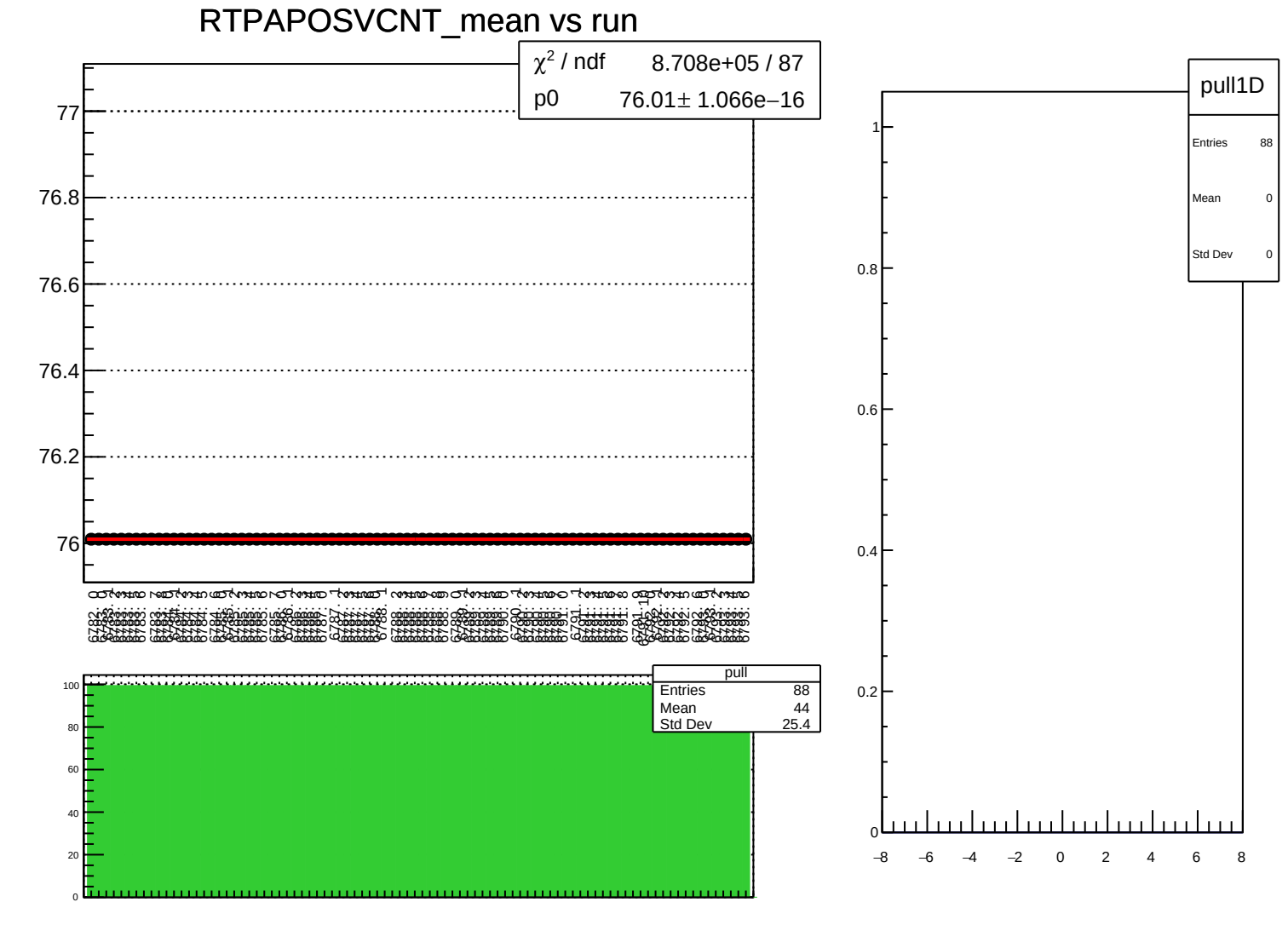

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.556e+25 / 77
p0 17.01± 1.132e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 78
Mean 7.093e+08
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

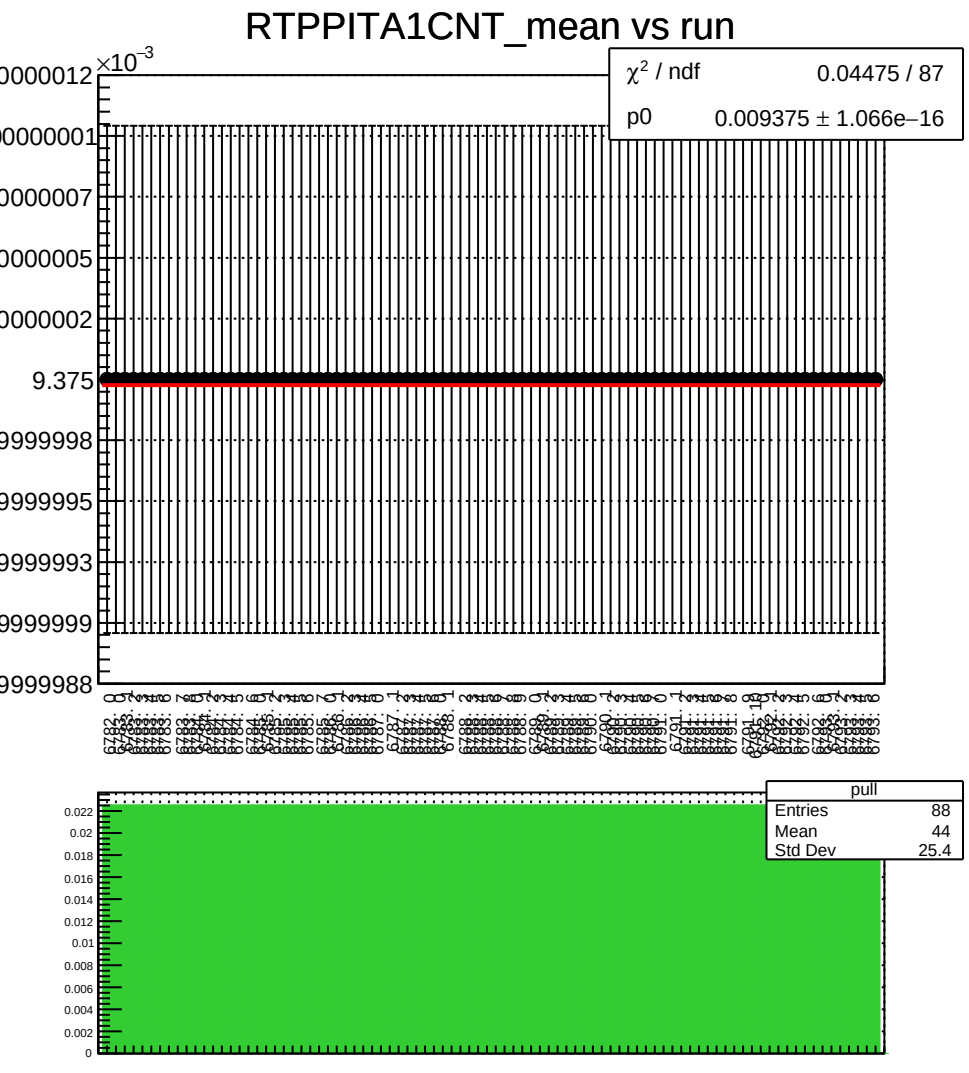

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

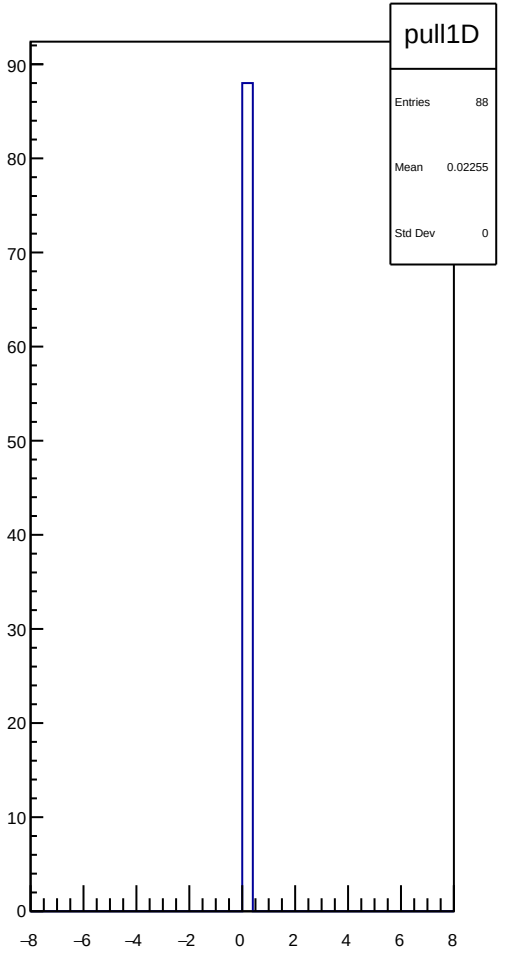

IGL1I00OD16_16_mean vs run
χ² / ndf 1111 / 87
p0 16.01± 1.066e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 88
Mean 44
Std Dev 25.4
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 88
Mean 3.553
Std Dev1.264e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

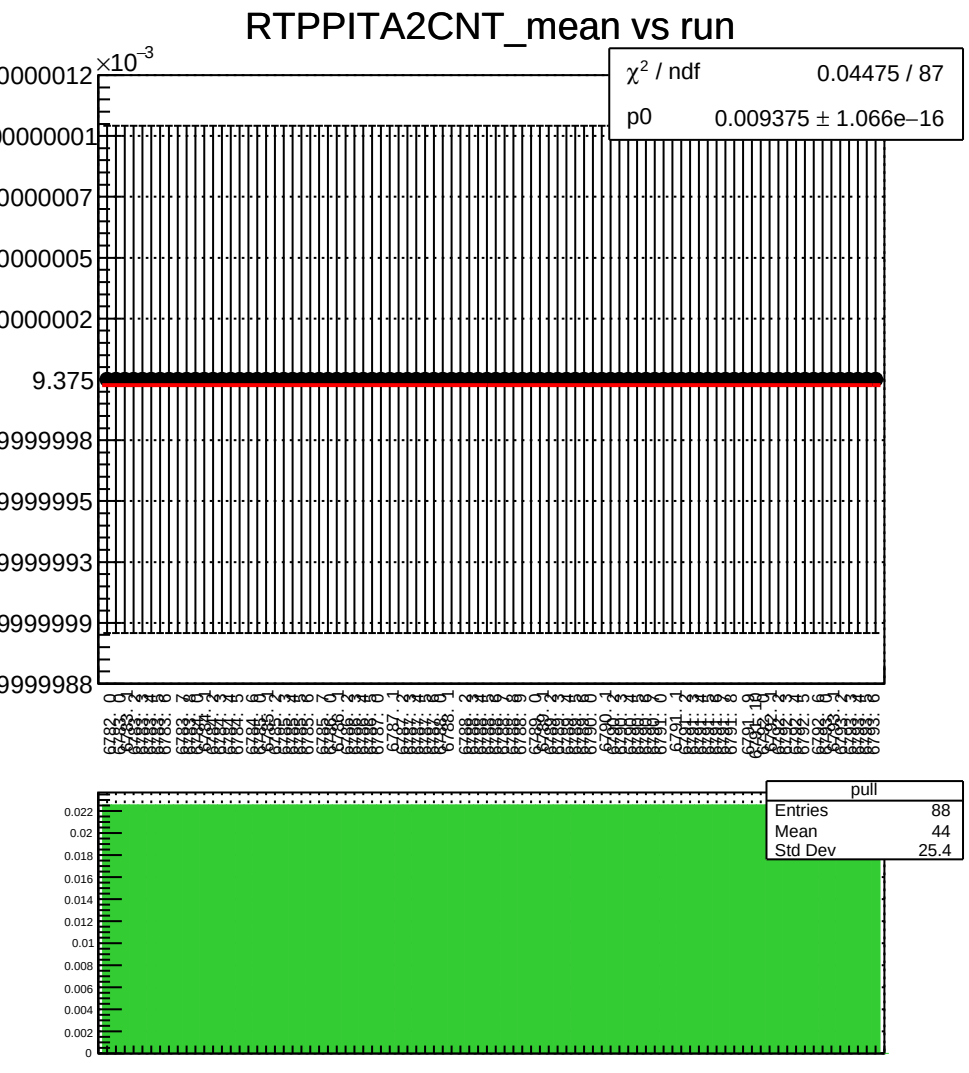

RTPAPOSUCNT_mean vs run
χ² / ndf 6.905e+26 / 87
p0 1146 ± 1.066e−16
1146.018
1146.016
1146.014
1146.012
1146.01
pull
Entries 88
Mean −6.734e+07
Std Dev 0
×10⁹
8000
7000
6000
5000
4000
3000
2000
1000
0
−1000

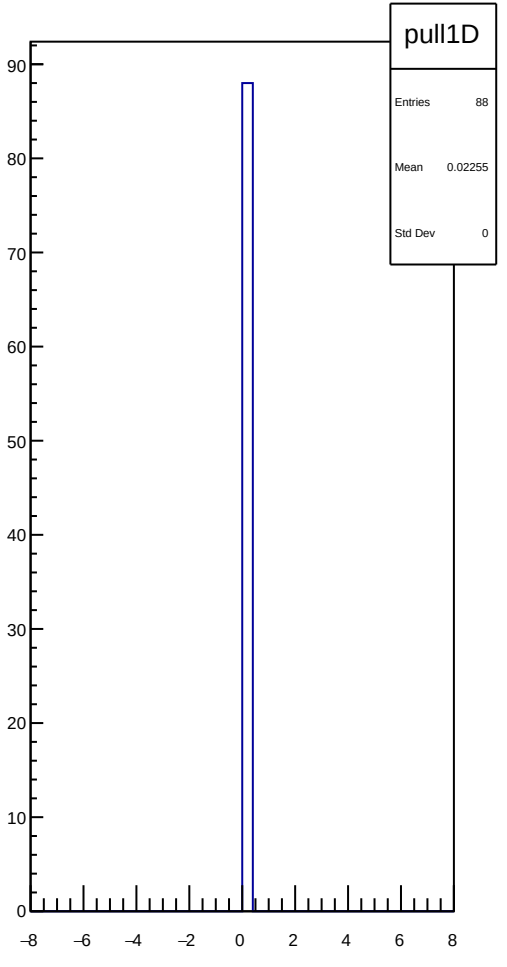

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 8.708e+05 / 87
p0 76.01± 1.066e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 88
Mean 44
Std Dev 25.4
100
80
60
40
20
0
pull1D
Entries 88
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 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
9.375
pull
Entries 88
Mean 44
Std Dev 25.4


pull1D
Entries 88
Mean 0.02255
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4


pull1D
Entries 88
Mean 0.02255
Std Dev 0